TEST REPORT

CERTIFICATE OF CONFORMITY

Standard:	**Certification Ordinance Article 2-1-19-3**
Report No.:	RJBBQZ-WTW-P22060198-1
Product:	WiFi 6 AX4200 Dual Band Multi-Gig Access Point
Brand:	NETGEAR
Model No.:	WAX220
Received Date:	2022/6/14
Test Date:	2022/10/4 ~ 2022/11/15
Issued Date:	2022/12/01
Applicant:	NETGEAR, INC.
Address:	350 East Plumeria Drive San Jose CA 95134
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan

Approved by: Jeremy Lin , **Date:** **2022/12/01**

Jeremy Lin / Project Engineer

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Prepared by : Polly Chien / Specialist

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Table of Contents

Release Control Record **4**

1 Certificate **5**

2 Summary of Test Results **6**

2.1 Measurement Uncertainty 7
2.2 Supplementary Information 7

3 General Information **8**

3.1 General Description of EUT 8
3.2 Output Power Description of EUT 10
3.3 Antenna Description of EUT 11
3.4 Channel List 13
3.5 Power Setting 14
3.6 Test Mode Applicability and Tested Channel Detail 15

4 Test Instruments **17**

4.1 Frequency Tolerance 17
4.2 Occupied Bandwidth 17
4.3 Spurious Emissions 17
4.4 Spurious Emissions of Receiver 18
4.5 Antenna Power 18
4.6 Adjacent Channel Emitted Power 19
4.7 Burst Length 19
4.8 Number of Carriers within 1 MHz Bandwidth in OFDM 19
4.9 Interference Prevention Function 20
4.10 Carrier Sense Capability 21

5 Limits of Test Items **22**

5.1 Frequency Tolerance 22
5.2 Occupied Bandwidth 22
5.3 Spurious Emissions 22
5.4 Spurious Emissions of Receiver 25
5.5 Antenna Power 26
5.6 Adjacent Channel Emitted Power 26
5.7 Burst Length 27
5.8 Number of Carriers within 1 MHz Bandwidth in OFDM 27
5.9 Interference Prevention Function 27
5.10 Carrier Sense Capability 27

6 Test Arrangements **28**

6.1 Frequency Tolerance 28
6.2 Occupied Bandwidth 28
6.3 Spurious Emissions 28
6.4 Spurious Emissions of Receiver 28
6.5 Antenna Power 28
6.6 Adjacent Channel Emitted Power 29
6.7 Burst Length 29
6.8 Number of Carriers within 1 MHz Bandwidth in OFDM 29
6.9 Interference Prevention Function 29
6.10 Carrier Sense Capability 29

7 Test Results of Test Item **30**

7.1 Frequency Tolerance 30
7.2 Occupied Bandwidth 32
7.3 Spurious Emissions 55
7.4 Spurious Emissions of Receiver 202
7.5 Antenna Power 225
7.6 Adjacent Channel Emitted Power 234

7.7 Burst Length 372
7.8 Number of Carriers within 1 MHz Bandwidth in OFDM 414
7.9 Interference Prevention Function 414
7.10 Carrier Sense Capability 415
8 Pictures of Test Arrangements 417
9 Information of the Testing Laboratories 418

Release Control Record

Issue No.	Description	Date Issued
RJBBQZ-WTW-P22060198-1	Original release.	2022/12/01

1 Certificate

Product:	WiFi 6 AX4200 Dual Band Multi-Gig Access Point
Brand:	NETGEAR
Test Model:	WAX220
Sample Status:	Engineering sample
Applicant:	NETGEAR, INC.
Test Date:	2022/10/4 ~ 2022/11/15
Standard:	Certification Ordinance Article 2-1-19-3
Measurement procedure:	Measurement was conducted by the temporary test method which TELEC submitted to the Minister for Internal Affairs and Communications based on the Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Article 88, Paragraph 2

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

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2 Summary of Test Results

Certification Ordinance Article 2-1-19-3		
Clause	Test Item	Result
OR: Article 5. OR: Annex 1, Table 8 Notice 88 -Appendix 45 - 3	Frequency Tolerance	Pass
OR: Article 6 Annex 2.30 Notice 88 -Appendix 45 - 4	Occupied Bandwidth	Pass
OR: Article 7. Annex 3.29 Notice 88 -Appendix 45 - 5	Spurious Emissions	Pass
OR: Article 49-20	Antenna Specifications	Pass
OR: Article 14. table 6	Antenna Power Tolerance	Pass
OR: Article 24.2 Notice 88 -Appendix 45-8	Spurious Emissions of Receiver	Pass
OR: Article 49-20	High frequency / modulation section can not be opened easily	Pass (Refer to Note 4)
OR: Article 49-20	Communication Method	Pass (Refer to Note 4)
OR: Article 49-20	Modulation Mehtod	Pass (Refer to Note 4)
OR: Article 49-20	Signal Transmission Rate	Pass (Refer to Note 4)
OR: Article 49-20 Notice 88 -Appendix 45 - 10	Burst Length	Pass
OR: Article 49-20 Notice 88 -Appendix 45 - 6	Antenna Power	Pass
OR: Article 49-20 Notice 88 -Appendix 45 - 6	Isotropically Radiated Power	Pass
OR: Article 49-20	Number of Carriers within 1 MHz Bandwidth in OFDM	Pass
OR: Article 49-20 Notice 88 -Appendix 45 - 7	Adjacent Channel Emitted Power	Pass
OR: Article 9-4. 8 RE: Article 6-2. 3 Notice 88 -Appendix 45 - 9	Interference Prevention Function	Pass
OR: Article 49-20 Note: No.103 of 2019 Notice 88 -Appendix 45 - 12	Carrier Sense Capability	Pass
OR: Article 49-20 Note: No.103 of 2019 OC: Annex 2. 3-12 Notice 88 -Appendix 45 - 13 Notice 88 -Appendix 45 - 14	Dynamic Frequency Selection	Pass (Refer to Note 5)

Notes:

1. OR: Ordinance Regulating Radio Equipment.
2. RE: Regulations for Enforcement of the radio law.
3. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
4. The relative information refer section 3.1 of this report
5. The "Dynamic Frequency Selection" was recorded in another test report.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETSI TR 100 028-1:

Parameter	Uncertainty (±)
Occupied Bandwidth	491.896 Hz
Spurious Emissions	2.208 dB
Output power density	2.889 dB
Adjacent Channel Leakage Power	3.93 dB
Out of band radiated power	3.93 dB
Frequency Tolerance	6805.18 Hz
Burst Length	0.01 ms

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	WiFi 6 AX4200 Dual Band Multi-Gig Access Point
Brand	NETGEAR
Test Model	WAX220
Test Software Version	QAUI (MT7986_0007) Version : 0.0.2.87
Status of EUT	Engineering sample
Power Supply Rating	12 Vdc (adapter) 55.5 Vdc (POE)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n: up to 450 Mbps 802.11ac: up to 2340 Mbps 802.11ax: up to 3602.9 Mbps
Operating Frequency	5.18 GHz ~ 5.32 GHz (W52&W53) 5.5 GHz ~ 5.72 GHz (W56)
Number of Channel	For 5GHz(W52+W53): 802.11a/n(HT20)/ac(VHT20)/ax(HE20): 8 802.11n(HT40)/ac(VHT40)/ax(HE40): 4 802.11ac(VHT80)/ax(HE80): 2 802.11ac (VHT160), 802.11ax (HE160):1 For 5GHz(W56): 802.11a/n(HT20)/ac(VHT20)/ax(HE20): 12 802.11n(HT40)/ac(VHT40)/ax(HE40): 6 802.11ac(VHT80)/ax(HE80): 3 802.11ac (VHT160), 802.11ax (HE160):1
Assembly	Special screw

Note:

1. The EUT uses following accessories.

Adapter 1	
Brand	NETGEAR
Model	ADS-40FPA-12 12030EPCU-L /EPC-L
Part Number	332-11525-02
Input Power	100~120Vac ~60Mhz Max.1.0A
Output Power	12Vdc/2.5A
DC cable	1.8m DC cable without core

Adapter 2	
Brand	NETGEAR
Model	AD2067F10
Part Number	332-10797-02
Input Power	100~120Vac ~50/60Mhz Max.1.0A
Output Power	12Vdc/2.5A
DC cable	1.8m DC cable without core

POE (for support unit only)	
Brand	BUFFALO
Model	BIJ-POE-1P2GH
Input Power	100-240 Vac, 1.1 A, 50/60 Hz
Output Power	55.5 Vdc, 0.54 A

2. 2.4GHz & 5GHz technology can transmit at same time.
3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

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3.2 Output Power Description of EUT

Operation Mode	Rated Output Power Density (mW/MHz)	Conducted RF Output Power Density (mW/MHz)	Radiated RF Output Power Density (mW/MHz)
802.11a W52&W53	3.3	3.464	9.174
802.11a W56	10	9.772	27.039
802.11ac (VHT20) W52&W53	3.3	3.415	9.537
802.11ac (VHT20) W56	10	9.411	26.040
802.11ac (VHT40) W52&W53	1.65	1.770	4.688
802.11ac (VHT40) W56	5	4.498	12.446
802.11ac (VHT80) W52&W53	0.825	0.872	2.354
802.11ac (VHT80) W56	2.5	2.329	6.444
802.11ac (VHT160) W52&W53	0.4125	0.412	1.151
802.11ac (VHT160) W56	1.25	1.132	3.132
802.11ax (HE20) W52&W53	3.3	3.528	9.852
802.11ax (HE20) W56	10	9.809	27.141
802.11ax (HE40) W52&W53	1.65	1.845	4.886
802.11ax (HE40) W56	5	4.701	13.007
802.11ax (HE80) W52&W53	0.825	0.895	2.424
802.11ax (HE80) W56	2.5	2.421	6.699
802.11ax (HE160) W52&W53	0.4125	0.432	1.206
802.11ax (HE160) W56	1.25	1.194	3.304

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3.3 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Type	PIFA		
Antenna Connector	IPEX		
Antenna Gain (dBi)	DB1_modify	DB2_modify	5G_modify
2400~2483.5MHz	3.49	3.43	-
5150~5250MHz	4.46	4.37	4.43
5250~5350MHz	4.19	4.21	4.23
5470~5725MHz	4.42	4.24	4.38

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

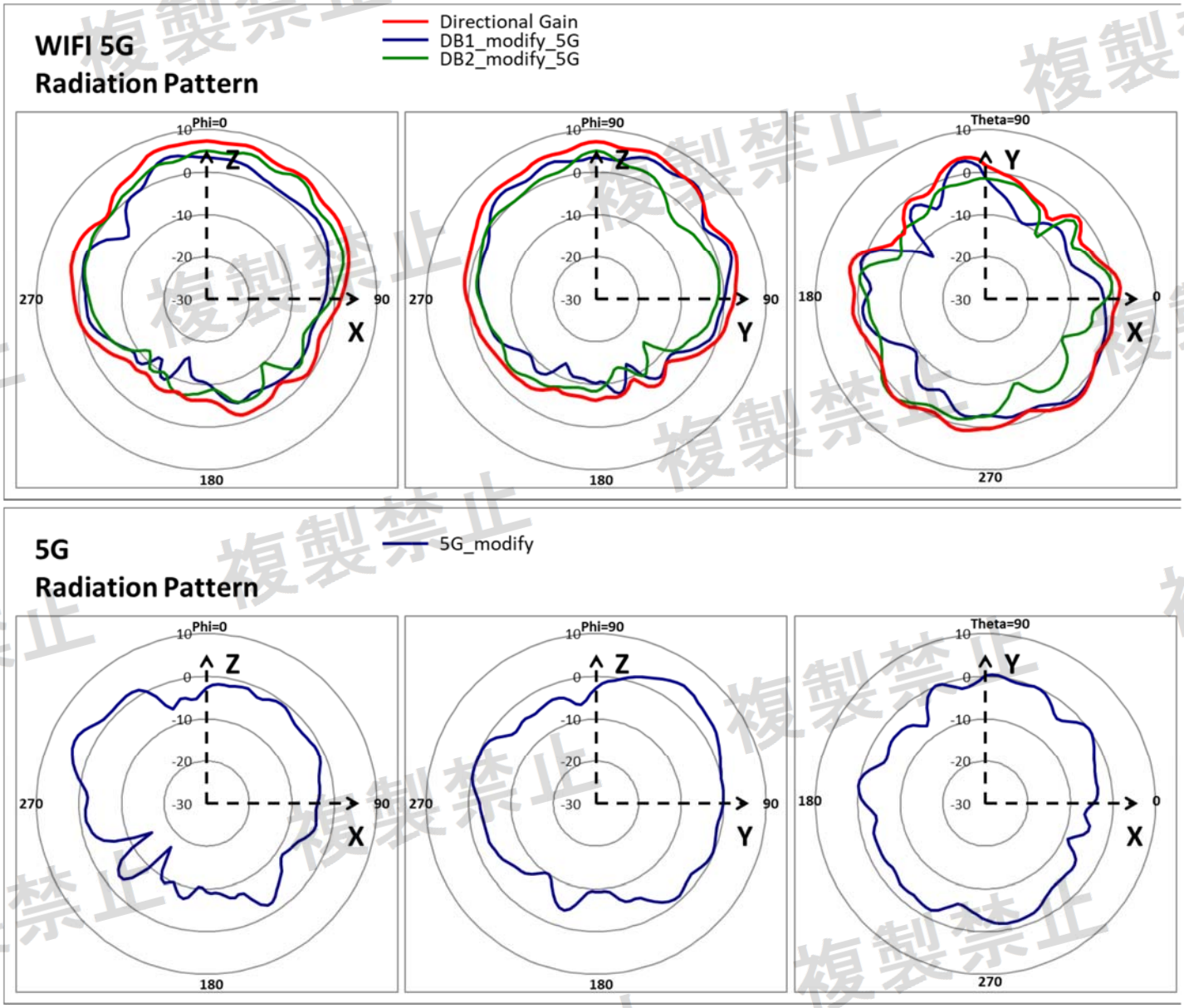
2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	3TX	3RX
802.11n (HT20)	3TX	3RX
802.11n (HT40)	3TX	3RX
802.11ac (VHT20)	3TX	3RX
802.11ac (VHT40)	3TX	3RX
802.11ac (VHT80)	3TX	3RX
802.11ac (VHT160)	3TX	3RX
802.11ax (HE20)	3TX	3RX
802.11ax (HE40)	3TX	3RX
802.11ax (HE80)	3TX	3RX
802.11ax (HE160)	3TX	3RX

Note:
1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax or more lower than it and investigated worst case to representative mode in test report.
4. The EUT device modulation technique OFDMA does not support partial RUs (resource units).

3. Antenna Pattern:

1.



3.4 Channel List

FOR 5180 ~ 5320 MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	52	5260 MHz
40	5200 MHz	56	5280 MHz
44	5220 MHz	60	5300 MHz
48	5240 MHz	64	5320 MHz

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	54	5270 MHz
46	5230 MHz	62	5310 MHz

2 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz
122	5610 MHz		

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
114	5570

3.5 Power Setting

Power Setting								
Channel	802.11a	802.11ac (VHT20)	Channel	802.11ac (VHT40)	Channel	802.11ac (VHT80)	Channel	802.11ac (VHT160)
36	9	9.5	38	9.5	42	9.5	50	8
48	9	9.5	46	9	58	10	114	13
52	9	9.5	54	10	106	14		
64	9	9.5	62	10	122	14		
100	13.5	14.5	102	13	138	14		
120	13.5	14.5	118	13				
144	13	14	142	12.5				

Power Setting							
Channel	802.11ax (HE20)	Channel	802.11ax (HE40)	Channel	802.11ax (HE80)	Channel	802.11ax (HE160)
36	9.5	38	9.5	42	9.5	50	8
48	9.5	46	9	58	10	114	13
52	9.5	54	10	106	14		
64	9.5	62	10	122	14		
100	14.5	102	13	138	14		
120	14.5	118	13				
144	14	142	13.5				

3.6 Test Mode Applicability and Tested Channel Detail

Test Conditions	Voltage (Vac)
V_{normal}	100

Note: After checking the fluctuation of input voltage to the circuit of the radio part (excluding the power supply) of the equipment to be tested, the fluctuation less than +/- 1 % when input voltage from an external supply into the equipment fluctuates +/- 10%, therefore, the test is carried out only at the normal voltage.

Following channel(s) was (were) selected for the final test as listed below:

Test Item	Test Conditions	Mode	Tested Channel	Modulation	Data Rate Parameter
Frequency Tolerance	Chain 0	20MHz System	36, 48, 52, 64, 100, 120, 144	-	-
		40MHz System	38, 46, 54, 62, 102, 118, 142	-	-
		80MHz System	42, 58, 106, 122, 138	-	-
		160MHz System	50, 114	-	-
Occupied Bandwidth	Chain 0 Chain 1 Chain 2	802.11a	36, 48, 52, 64, 100, 120, 144	BPSK	6Mb/s
		802.11ac (VHT20)	36, 48, 52, 64, 100, 120, 144	BPSK	MCS0
		802.11ac (VHT40)	38, 46, 54, 62, 102, 118, 142	BPSK	MCS0
		802.11ac (VHT80)	42, 58, 106, 122, 138	BPSK	MCS0
		802.11ac (VHT160)	50, 114	BPSK	MCS0
		802.11ax (HE20)	36, 48, 52, 64, 100, 120, 144	BPSK	MCS0
		802.11ax (HE40)	38, 46, 54, 62, 102, 118, 142	BPSK	MCS0
		802.11ax (HE80)	42, 58, 106, 122, 138	BPSK	MCS0
		802.11ax (HE160)	50, 114	BPSK	MCS0
Spurious Emissions	Chain 0 Chain 1 Chain 2 W	802.11a	36, 48, 52, 64, 100, 120, 144	BPSK	6Mb/s
		802.11ac (VHT20)	36, 48, 52, 64, 100, 120, 144	BPSK	MCS0
		802.11ac (VHT40)	38, 46, 54, 62, 102, 118, 142	BPSK	MCS0
		802.11ac (VHT80)	42, 58, 106, 122, 138	BPSK	MCS0
		802.11ac (VHT160)	50, 114	BPSK	MCS0
		802.11ax (HE20)	36, 48, 52, 64, 100, 120, 144	BPSK	MCS0
		802.11ax (HE40)	38, 46, 54, 62, 102, 118, 142	BPSK	MCS0
		802.11ax (HE80)	42, 58, 106, 122, 138	BPSK	MCS0
		802.11ax (HE160)	50, 114	BPSK	MCS0
Spurious Emissions of Receiver	Chain 0 Chain 1 Chain 2 S	20MHz System	36, 48, 52, 64, 100, 120, 144	-	-
		40MHz System	38, 46, 54, 62, 102, 118, 142	-	-
		80MHz System	42, 58, 106, 122, 138	-	-
		160MHz System	50, 114	-	-

Test Item	Test Conditions	Mode	Tested Channel	Modulation	Data Rate Parameter
Antenna Power	Chain 0 Chain 1 Chain 2 S	802.11a	36, 48, 52, 64, 100, 120, 144	BPSK	6Mb/s
		802.11ac (VHT20)	36, 48, 52, 64, 100, 120, 144	BPSK	MCS0
		802.11ac (VHT40)	38, 46, 54, 62, 102, 118, 142	BPSK	MCS0
		802.11ac (VHT80)	42, 58, 106, 122, 138	BPSK	MCS0
		802.11ac (VHT160)	50, 114	BPSK	MCS0
		802.11ax (HE20)	36, 48, 52, 64, 100, 120, 144	BPSK	MCS0
		802.11ax (HE40)	38, 46, 54, 62, 102, 118, 142	BPSK	MCS0
		802.11ax (HE80)	42, 58, 106, 122, 138	BPSK	MCS0
		802.11ax (HE160)	50, 114	BPSK	MCS0
Adjacent Channel Emitted Power	Chain 0 Chain 1 Chain 2 C S	802.11a	36, 48, 52, 64, 100, 120, 144	BPSK	6Mb/s
		802.11ac (VHT20)	36, 48, 52, 64, 100, 120, 144	BPSK	MCS0
		802.11ac (VHT40)	38, 46, 54, 62, 102, 118, 142	BPSK	MCS0
		802.11ac (VHT80)	42, 58, 106, 122, 138	BPSK	MCS0
		802.11ax (HE20)	36, 48, 52, 64, 100, 120, 144	BPSK	MCS0
		802.11ax (HE40)	38, 46, 54, 62, 102, 118, 142	BPSK	MCS0
		802.11ax (HE80)	42, 58, 106, 122, 138	BPSK	MCS0
Burst Length	Chain 0 Chain 1 Chain 2 C	802.11a	36, 48, 52, 64, 100, 120, 144	BPSK	6Mb/s
		802.11ac (VHT20)	36, 48, 52, 64, 100, 120, 144	BPSK	MCS0
		802.11ac (VHT40)	38, 46, 54, 62, 102, 118, 142	BPSK	MCS0
		802.11ac (VHT80)	42, 58, 106, 122, 138	BPSK	MCS0
		802.11ac (VHT160)	50, 114	BPSK	MCS0
		802.11ax (HE20)	36, 48, 52, 64, 100, 120, 144	BPSK	MCS0
		802.11ax (HE40)	38, 46, 54, 62, 102, 118, 142	BPSK	MCS0
		802.11ax (HE80)	42, 58, 106, 122, 138	BPSK	MCS0
		802.11ax (HE160)	50, 114	BPSK	MCS0
Number of Carriers within 1 MHz Bandwidth in OFDM	-	-	-	-	-
Interference Prevention Function	-	Normal Operation			
Carrier Sense Capability	-	802.11a	36, 48, 52, 64, 100, 120, 144	BPSK	6Mb/s
		802.11ax (HE20)	36, 48, 52, 64, 100, 120, 144	BPSK	MCS0
		802.11ax (HE40)	38, 46, 54, 62, 102, 118, 142	BPSK	MCS0
		802.11ax (HE80)	42, 58, 106, 122, 138	BPSK	MCS0
		802.11ax (HE160)	50, 114	BPSK	MCS0

Note:
S : Sum of each Chain,
C : Use combiner,
W : [Worst result] x [Number of antenna ports]

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Frequency Tolerance

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
AC Power Source ExTech	CFW-105	E000603	Note 2	Note 2	BV CPS E&E	(d)
N9030B - PXA Signal Analyzer KEYSIGHT	N9030B	MY57140938	2022/3/15	2023/3/14	ETC	(c)
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24	ETC	(c)

Notes:

1. Calibration method:
   (a): Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
   (b): Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
   (c): Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
   (d): Calibration conducted by using other equipment that listed above from a) to c).
2. The power supply no evaluation calibrated, which used the digital multimeter to verify before each testing.
3. The test was performed in Oven room.
4. Tested Date: 2022/10/6 ~ 2022/10/14

4.2 Occupied Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
AC Power Source ExTech	CFW-105	E000603	Note 2	Note 2	BV CPS E&E	(d)
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24	ETC	(c)

Notes:

1. Calibration method:
   (a): Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
   (b): Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
   (c): Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
   (d): Calibration conducted by using other equipment that listed above from a) to c).
2. The power supply no evaluation calibrated, which used the digital multimeter to verify before each testing.
3. The test was performed in Oven room.
4. Tested Date: 2022/10/6 ~ 2022/10/14

4.3 Spurious Emissions

Refer to section 4.2 to get information of the instruments.

4.4 Spurious Emissions of Receiver

Refer to section 4.2 to get information of the instruments.

4.5 Antenna Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
AC Power Source ExTech	CFW-105	E000603	Note 2	Note 2	BV CPS E&E	(d)
MXG Agilent	N5182B	MY53050162	2022/1/14	2023/1/13	ETC	(c)
Peak Power Analyzer KEYSIGHT	8990B	MY51000485	2022/1/18	2023/1/17	ETC	(c)
Power sensor Keysight	U2021XA	MY55380009	2022/3/23	2023/3/22	ETC	(c)
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24	ETC	(c)
Wideband Power Sensor(N1923A) KEYSIGHT	N1923A	MY58020002	2022/1/17	2023/1/16	ETC	(c)

Notes:

1. Calibration method:
   (a): Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
   (b): Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
   (c): Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
   (d): Calibration conducted by using other equipment that listed above from a) to c).
2. The power supply no evaluation calibrated, which used the digital multimeter to verify before each testing.
3. The test was performed in Oven room.
4. Tested Date: 2022/10/17

4.6 Adjacent Channel Emitted Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
AC Power Source ExTech	CFW-105	E000603	Note 2	Note 2	BV CPS E&E	(d)
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24	ETC	(c)

Notes:

1. Calibration method:
   (a): Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
   (b): Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
   (c): Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
   (d): Calibration conducted by using other equipment that listed above from a) to c).
2. The power supply no evaluation calibrated, which used the digital multimeter to verify before each testing.
3. The test was performed in Oven room.
4. Tested Date: 2022/10/4 ~ 2022/10/12

4.7 Burst Length

Refer to section 4.2 to get information of the instruments.

4.8 Number of Carriers within 1 MHz Bandwidth in OFDM

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
AC Power Source ExTech	CFW-105	E000603	Note 2	Note 2	BV CPS E&E	(d)
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24	ETC	(c)

Notes:

1. Calibration method:
   (a): Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
   (b): Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
   (c): Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
   (d): Calibration conducted by using other equipment that listed above from a) to c).
2. The power supply no evaluation calibrated, which used the digital multimeter to verify before each testing.
3. The test was performed in Oven room.
4. Tested Date: 2022/11/15

4.9 Interference Prevention Function

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
AC Power Source ExTech	CFW-105	E000603	Note 2	Note 2	BV CPS E&E	(d)
Radio Communication Analyzer Anritsu	MT8860C	1702001	2022/5/10	2023/5/9	ETC	(c)

Notes:

1. Calibration method:
   (a): Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
   (b): Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
   (c): Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
   (d): Calibration conducted by using other equipment that listed above from a) to c).
2. The power supply no evaluation calibrated, which used the digital multimeter to verify before each testing.
3. The test was performed in Oven room.
4. Tested Date: 2022/11/15

4.10 Carrier Sense Capability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
AC Power Source ExTech	CFW-105	E000603	Note 2	Note 2	BV CPS E&E	(d)
MXG -X Vector Signal Generator KEYSIGHT	N5182B	MY57301272	2022/3/13	2023/3/12	ETC	(c)
Spectrum Analyzer R&S	FSV40	100980	2022/4/20	2023/4/19	ETC	(c)

Notes:

1. Calibration method:
   (a): Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
   (b): Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
   (c): Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
   (d): Calibration conducted by using other equipment that listed above from a) to c).
2. The test was performed in Oven room.
3. Tested Date: 2022/11/15

5 Limits of Test Items

5.1 Frequency Tolerance

Tolerance of frequency shall be +/- 20ppm.

5.2 Occupied Bandwidth

Item	Modulation	Limit	Bandwidth System
Occupied bandwidth	DSSS	18 MHz	20 MHz system
	OFDM	20 MHz	20 MHz system
		40 MHz	40 MHz system
		80 MHz	80 MHz system
		80 MHz	80+80 MHz system (not adjacent band)
		160 MHz	160 MHz system

5.3 Spurious Emissions

W52 bands: 20 MHz System

Frequencies (MHz)	Limit
OBW : 18 MHz or Less	
30.0 to 1000.0 MHz	≦ 0.25 uW/100 kHz
1000.0 to 5142.0 MHz	≦ 2.5 uW/MHz
5142.0 to 5150.0 MHz	≦ 15.0 uW/MHz
5250.0 to 5251.0 MHz	≦ $10.0^{1-(f-9)}$ mW/MHz
5251.0 to 5260.0 MHz	≦ $10.0^{-1-(8/90)(f-11)}$ mW/MHz
5260.0 to 5266.7 MHz	≦ $10.0^{-1.8-(6/50)(f-20)}$ mW/MHz
5266.7 to 26000.0 MHz	≦ 2.5 μW/MHz
OBW : 18 ~ 20 MHz	
30.0 to 1000.0 MHz	≦ 0.25 uW/100 kHz
1000.0 to 5142.0 MHz	≦ 2.5 uW/MHz
5142.0 to 5150.0 MHz	≦ 15.0 uW/MHz
5250.0 to 5250.2 MHz	≦ $10.0^{-1-(8/3)(f-9.75)}$ mW/MHz
5250.2 to 5251.0 MHz	≦ $10.0^{1-(f-9)}$ mW/MHz
5251.0 to 5260.0 MHz	≦ $10.0^{-1-(8/90)(f-11)}$ mW/MHz
5260.0 to 5266.7 MHz	≦ $10.0^{-1.8-(6/50)(f-20)}$ mW/MHz
5266.7 to 26000.0 MHz	≦ 2.5 μW/MHz

W53 bands: 20 MHz System

Frequencies (MHz)	Limit
OBW : 18 MHz or Less	
30.0 to 1000.0 MHz	≦ 0.25 uW/100 kHz
1000.0 to 5233.3 MHz	≦ 2.5 uW/MHz
5233.3 to 5240.0 MHz	≦ $10.0^{-1.8-(6/50)(f-20)}$ mW/MHz
5240.0 to 5249.0 MHz	≦ $10.0^{-1-(8/90)(f-11)}$ mW/MHz
5249.0 to 5250.0 MHz	≦ $10.0^{1-(f-9)}$ mW/MHz
5350.0 to 26000.0 MHz	≦ 2.5 μW/MHz
OBW : 18 ~ 20 MHz	
30.0 to 1000.0 MHz	≦ 0.25 uW/100 kHz
1000.0 to 5233.3 MHz	≦ 2.5 uW/MHz
5233.3 to 5240.0 MHz	≦ $10.0^{-1.8-(6/50)(f-20)}$ mW/MHz
5240.0 to 5249.0 MHz	≦ $10.0^{-1-(8/90)(f-11)}$ mW/MHz
5249.0 to 5249.8 MHz	≦ $10.0^{1-(f-9)}$ mW/MHz
5249.8 to 5250.0 MHz	≦ $10.0^{1-(8/3)(f-9.75)}$ mW/MHz
5350.0 to 26000.0 MHz	≦ 2.5 μW/MHz

W52 bands: 40 MHz System

Frequencies (MHz)	Limit
30.0 to 1000.0 MHz	≦ 0.25 uW/100 kHz
1000.0 to 5141.6 MHz	≦ 2.5 uW/MHz
5141.6 to 5150.0 MHz	≦ 15.0 uW/MHz
5250.0 to 5251.0 MHz	≦ $10.0^{-(f-20)+\log(1/2)}$ mW/MHz
5251.0 to 5270.0 MHz	≦ $10.0^{-(8/190)(f-21)-1+\log(1/2)}$ mW/MHz
5270.0 to 5278.4 MHz	≦ $10.0^{-(3/50)(f-40)-1.8+\log(1/2)}$ mW/MHz
5278.4 to 26000.0 MHz	≦ 2.5 μW/MHz

W53 bands: 40 MHz System

Frequencies (MHz)	Limit
30.0 to 1000.0 MHz	≦ 0.25 uW/100 kHz
1000.0 to 5210.0 MHz	≦ 2.5 uW/MHz
5210.0 to 5221.6 MHz	≦ 2.5 μW/MHz
5221.6 to 5230.0 MHz	≦ $10.0^{-(3/50)(f-40)-1.8+\log(1/2)}$ mW/MHz
5230.0 to 5249.0 MHz	≦ $10.0^{-(8/190)(f-21)-1+\log(1/2)}$ mW/MHz
5249.0 to 5250.0 MHz	≦ $10.0^{-(f-20)+\log(1/2)}$ mW/MHz
5350.0 to 5358.4 MHz	≦ 15 μW/MHz
5358.4 to 26000.0 MHz	≦ 2.5 μW/MHz

W52 bands: 80 MHz System

Frequencies (MHz)	Limit
30.0 to 1000.0 MHz	≦ 0.25 uW/100 kHz
1000.0 to 5123.2 MHz	≦ 2.5 uW/MHz
5123.2 to 5150.0 MHz	≦ 15.0 uW/MHz
5250.0 to 5251.0 MHz	≦ $10.0^{-(f-40)+\log(1/4)}$ mW/MHz
5251.0 to 5290.0 MHz	≦ $10.0^{-(8/390)(f-41)-1+\log(1/4)}$ mW/MHz
5290.0 to 5296.7 MHz	≦ $10.0^{-(3/100)(f-80)-1.8+\log(1/4)}$ mW/MHz
5296.7 to 26000.0 MHz	≦ 2.5 μW/MHz

W53 bands: 80 MHz System

Frequencies (MHz)	Limit
30.0 to 1000.0 MHz	≦ 0.25 uW/100 kHz
1000.0 to 5203.3 MHz	≦ 2.5 uW/MHz
5203.3 to 5210.0 MHz	≦ $10.0^{-(3/100)(f-80)-1.8+\log(1/4)}$ mW/MHz
5210.0 to 5249.0 MHz	≦ $10.0^{-(8/390)(f-41)-1+\log(1/4)}$ mW/MHz
5249.0 to 5250.0 MHz	≦ $10.0^{-(f-40)+\log(1/4)}$ mW/MHz
5350.0 to 5376.8 MHz	≦ 15 μW/MHz
5376.8 to 26000.0 MHz	≦ 2.5 μW/MHz

W52 + W53 band: 160 MHz System

Frequencies	Limit
30.0 to 1000.0 MHz	≦ 0.25 uW/100 kHz
1000.0 to 5099.6 MHz	≦ 2.5 uW/MHz
5099.6 to 5150.0 MHz	15 uW/MHz
5350.0 to 5400.4 MHz	15 uW/MHz
5400.4 to 26000.0 MHz	2.5 uW/MHz

Note: The limit value is defined by the E.I.R.P.

W56 band: 20 MHz System

Frequencies (MHz)	Limit
OFDM	
30.0 to 1000.0 MHz	≦ 0.25 uW/100 kHz
1000.0 to 5460.0 MHz	≦ 2.5 uW/MHz
5460.0 to 5470.0 MHz	≦ 12.5 μW/MHz
5745.0 to 5765.0 MHz	≦ 12.5 μW/MHz
5765.0 to 26000.0 MHz	≦ 2.5 μW/MHz

W56 band: 40 MHz System

Frequencies (MHz)	Limit
30.0 to 1000.0 MHz	≦1.25 uW/100 kHz
1000.0 to 5460.0 MHz	≦ 12.5 uW/MHz
5460.0 to 5470.0 MHz	≦ 50 μW/MHz
5770.0 to 26000.0 MHz	≦ 12.5 μW/MHz

W56 band: 80 MHz System

Frequencies (MHz)	Limit
30.0 to 1000.0 MHz	≦ 1.25 uW/100 kHz
1000.0 to 5360.0 MHz	≦ 12.5 uW/MHz
5460.0 to 5469.5 MHz	≦ 50 μW/MHz
5469.5 to 5470.0 MHz	≦ 51.2 μW/MHz
5770.0 to 26000.0 MHz	≦ 12.5 μW/MHz

W56 band: 160 MHz System

Frequencies	Limit
30.0 to 1000.0 MHz	1.25 uW/100 kHz
1000.0 to 5236.0 MHz	12.5 uW/MHz
5236.0 to 5419.6 MHz	12.5 uW/MHz
5419.6 to 5470.0 MHz	50 uW/MHz
5725.0 to 5904.0 MHz	12.5 uW/MHz
5904.0 to 26000.0 MHz	12.5 uW/MHz

Note: The limit value is defined by the E.I.R.P.

5.4 Spurious Emissions of Receiver

Frequencies	Limit
Below 1 GHz	≦4 nW
Above 1 GHz	≦20 nW

5.5 Antenna Power

W52 band					
Band	20MHz system	40MHz system	80MHz system	80 MHz + 80 MHz System (Not adjacent radio)	160MHz system
Output power	10 mW/MHz	5 mW/MHz	2.5 mW/MHz	1.25 mW/MHz	1.25 mW/MHz
EIRP	10 mW/MHz	5 mW/MHz	2.5 mW/MHz	1.25 mW/MHz	1.25 mW/MHz
Tolerance of Antenna Power	+20% (upper value) and –80% (lower value)				

W53 band					
Band	20MHz system	40MHz system	80MHz system	80 MHz + 80 MHz System (Not adjacent radio)	160MHz system
Output power	10 mW/MHz	5 mW/MHz	2.5 mW/MHz	1.25 mW/MHz	1.25 mW/MHz
EIRP (with TPC)	10 mW/MHz	5 mW/MHz	2.5 mW/MHz	1.25 mW/MHz	1.25 mW/MHz
EIRP (without TPC)	5 mW/MHz	2.5 mW/MHz	1.25 mW/MHz	0.625 mW/MHz	0.625 mW/MHz
Tolerance of Antenna Power	+20% (upper value) and –80% (lower value)				

W56 band					
Band	20MHz system	40MHz system	80MHz system	80 MHz + 80 MHz System (Not adjacent radio)	160MHz system
Output power	10 mW/MHz	5 mW/MHz	2.5 mW/MHz	1.25 mW/MHz	1.25 mW/MHz
EIRP (with TPC)	50 mW/MHz	25 mW/MHz	12.5 mW/MHz	1.25 mW/MHz	6.25 mW/MHz
EIRP (without TPC)	25 mW/MHz	12.5 mW/MHz	6.25 mW/MHz	0.625 mW/MHz	3.125 mW/MHz
Tolerance of Antenna Power	+50% (upper value) and –50% (lower value)				

5.6 Adjacent Channel Emitted Power

20 MHz System:

Frequencies (MHz)	Limit
Mean Power 20 MHz Distance of Carrier	≧ 25 dBc
Mean Power 40 MHz Distance of Carrier	≧ 40 dBc

Note: It shall consider OBW value, the measurement BW is different on adjacent channel emitted power.
If OBW ≦ 18 MHz, measurement BW is ± 9 MHz. If 18 MHz < OBW ≦ 20 MHz, measurement BW is ± 10 MHz.

40 MHz System:

Frequencies (MHz)	Limit
Mean Power 40 MHz Distance of Carrier	≧ 25 dBc
Mean Power 80 MHz Distance of Carrier	≧ 40 dBc

80 MHz System:

Frequencies (MHz)	Limit
Mean Power 80 MHz Distance of Carrier	≧ 25 dBc

5.7 Burst Length

Frequencies (MHz)	Limit
Transmitter Operating	≦ 8 ms

5.8 Number of Carriers within 1 MHz Bandwidth in OFDM

For each 1 MHz bandwidth in OFDM, there should be at least 1 carrier.

5.9 Interference Prevention Function

Radio equipment used mainly on the same premises and automatically transmits or receives identification code.

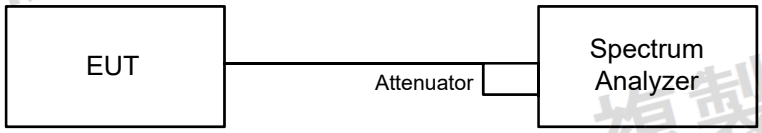
5.10 Carrier Sense Capability

Radio equipment used carrier sensing mechanism that based detect and avoid capabilities.

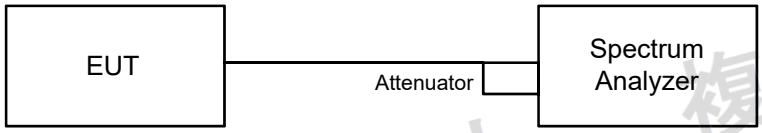
複製禁止

6 Test Arrangements

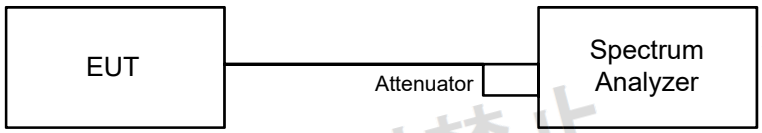
6.1 Frequency Tolerance



6.2 Occupied Bandwidth

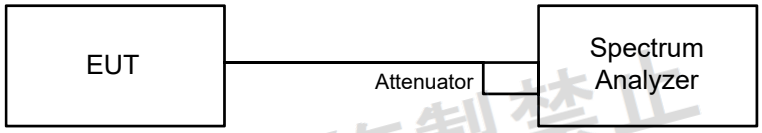


6.3 Spurious Emissions



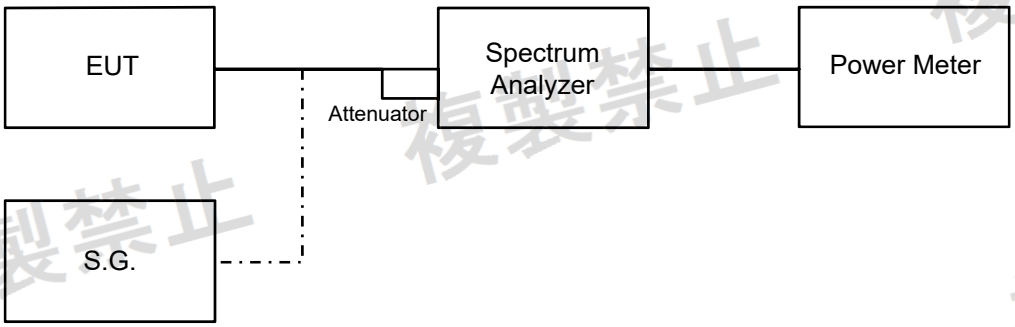
Note: The test system was set to peak detects function with maximum hold mode. (MP=max peak)

6.4 Spurious Emissions of Receiver

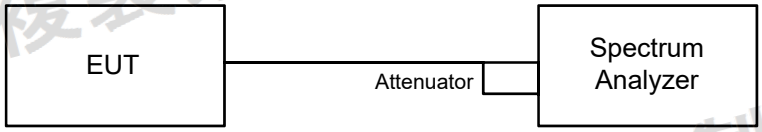


Note: The test system was set to peak detects function with maximum hold mode. (MP=max peak)

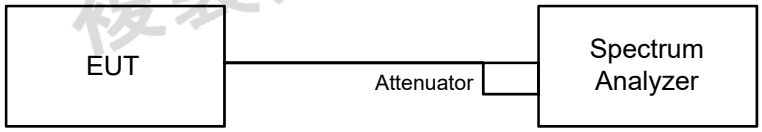
6.5 Antenna Power



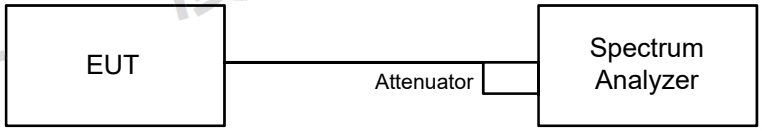
6.6 Adjacent Channel Emitted Power



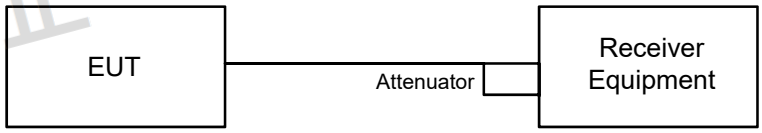
6.7 Burst Length



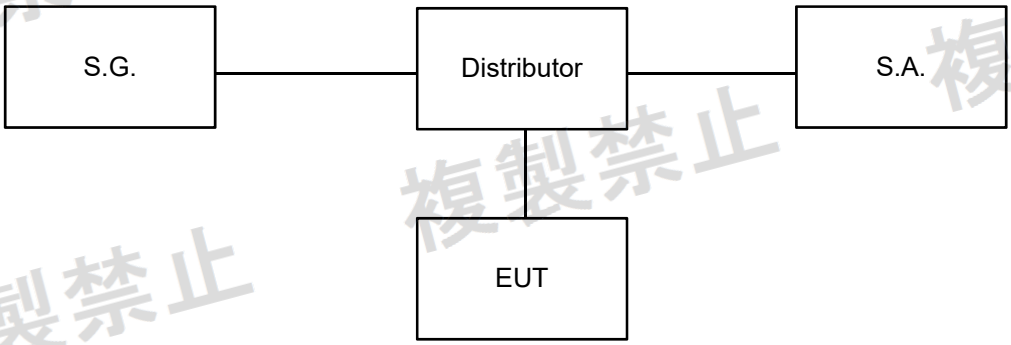
6.8 Number of Carriers within 1 MHz Bandwidth in OFDM



6.9 Interference Prevention Function



6.10 Carrier Sense Capability



7 Test Results of Test Item

7.1 Frequency Tolerance

Environmental Conditions:	25°C, 65% RH	Tested By:	Chris Lin

20 MHz System: 802.11a / 802.11ac (VHT20) / 802.11ax (HE20) Chain 0

Channel	Frequency (MHz)	V_{normal}	
		Carrier frequency (MHz)	Frequency tolerance (ppm)
36	5180	5179.909936	-17.386
48	5240	5239.910417	-17.095
52	5260	5259.910577	-17.000
64	5320	5319.911058	-16.718
100	5500	5499.907051	-16.899
120	5600	5599.914103	-15.338
144	5720	5719.909936	-15.745

40 MHz System: 802.11ac (VHT40) / 802.11ax (HE40) Chain 0

Channel	Frequency (MHz)	V_{normal}	
		Carrier frequency (MHz)	Frequency tolerance (ppm)
38	5190	5189.906410	-18.032
46	5230	5229.903686	-18.415
54	5270	5269.902244	-18.549
62	5310	5309.899840	-18.862
102	5510	5509.894872	-19.079
118	5590	5589.896795	-18.462
142	5710	5709.894391	-18.495

80 MHz System: 802.11ac (VHT80) / 802.11ax (HE80) Chain 0

Channel	Frequency (MHz)	V_{normal}	
		Carrier frequency (MHz)	Frequency tolerance (ppm)
42	5210	5209.903846	-18.455
58	5290	5289.899519	-18.994
106	5530	5529.894872	-19.010
122	5610	5609.893109	-19.053
138	5690	5689.891667	-19.039

160 MHz System: 802.11ac (VHT160) / 802.11ax (HE160) Chain 0

Channel	Frequency (MHz)	V_{normal}	
		Carrier frequency (MHz)	Frequency tolerance (ppm)
50	5250	5249.913622	-16.452
114	5570	5569.915064	-15.248

7.2 Occupied Bandwidth

Environmental Conditions:	25°C, 65% RH	Tested By:	Chris Lin

802.11a Chain 0

Channel	Frequency (MHz)	V_{normal} Occupied Bandwidth (MHz)
36	5180	16.58
48	5240	16.60
52	5260	16.60
64	5320	16.60
100	5500	16.60
120	5600	16.60
144	5720	16.60

NOTE: For the test plots please refer to the below pages.

802.11a Chain 1

Channel	Frequency (MHz)	V_{normal} Occupied Bandwidth (MHz)
36	5180	16.58
48	5240	16.60
52	5260	16.60
64	5320	16.60
100	5500	16.60
120	5600	16.50
144	5720	16.50

NOTE: For the test plots please refer to the below pages.

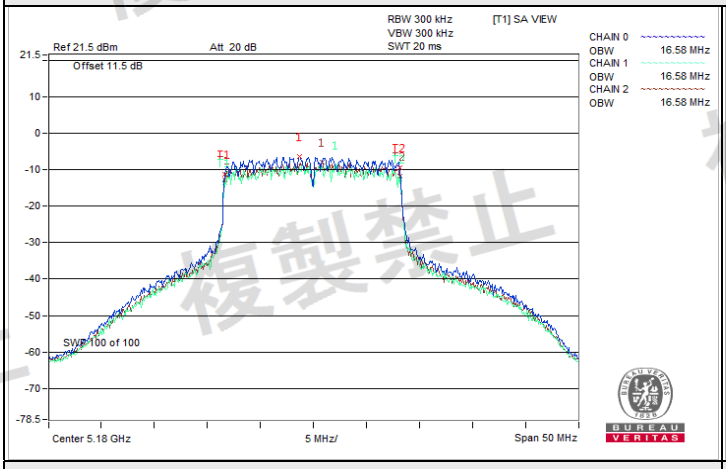
802.11a Chain 2

Channel	Frequency (MHz)	V_{normal} Occupied Bandwidth (MHz)
36	5180	16.58
48	5240	16.50
52	5260	16.60
64	5320	16.50
100	5500	16.58
120	5600	16.50
144	5720	16.50

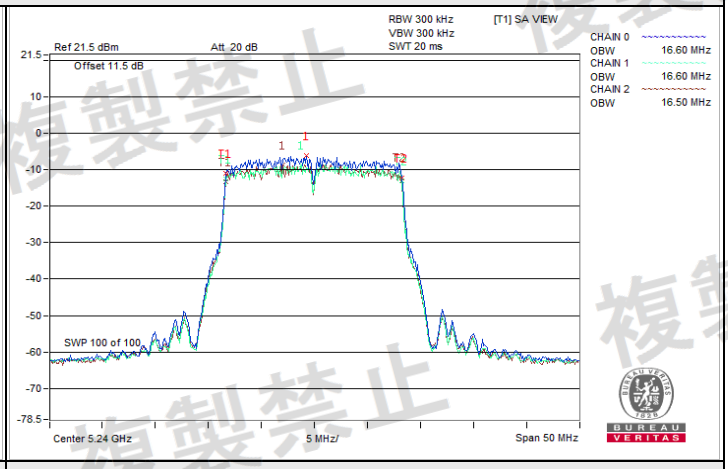
NOTE: For the test plots please refer to the below pages.

802.11a Graph

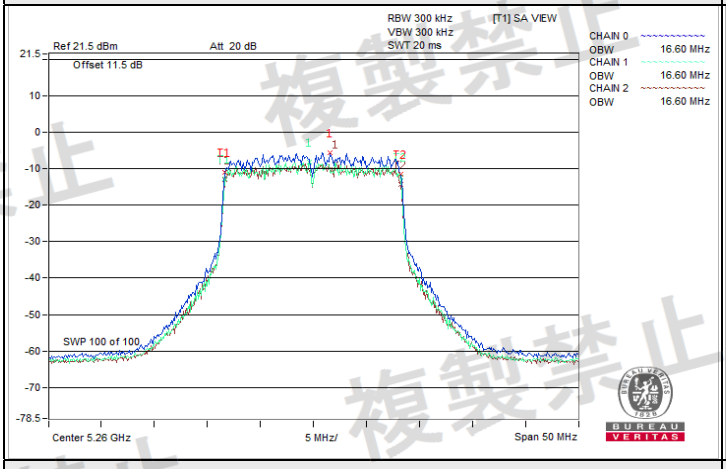
Vnormal



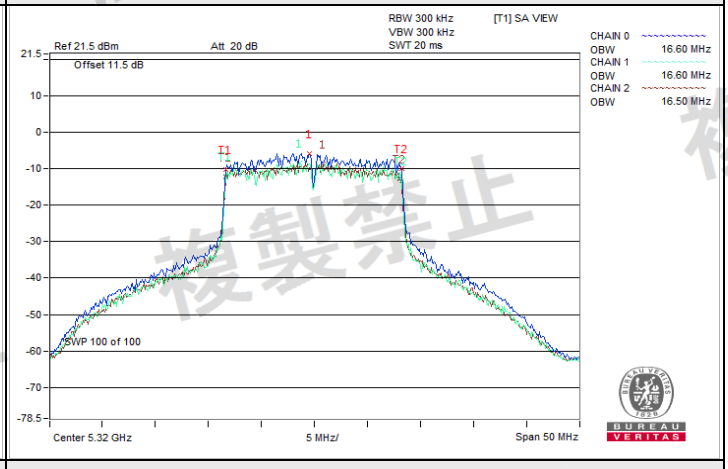
CH 36 (5180 MHz)



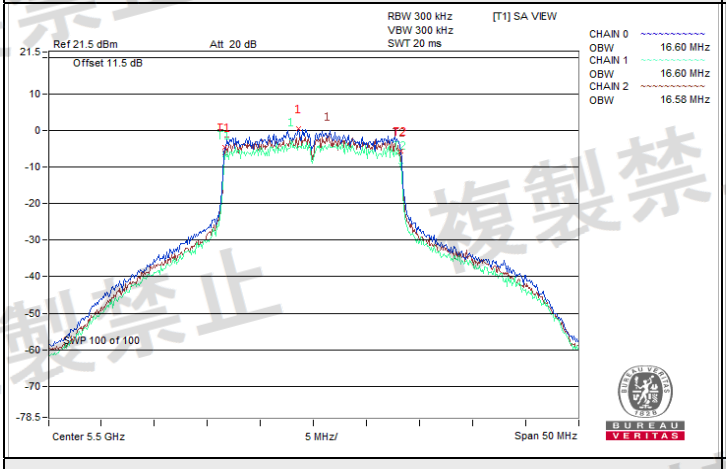
CH 48 (5240 MHz)



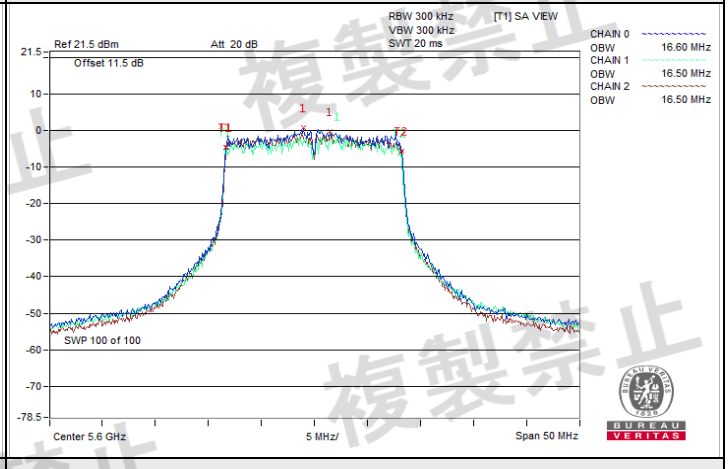
CH 52 (5260 MHz)



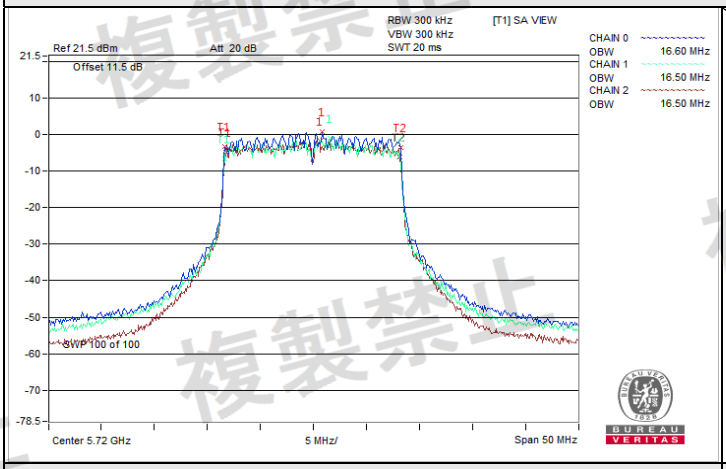
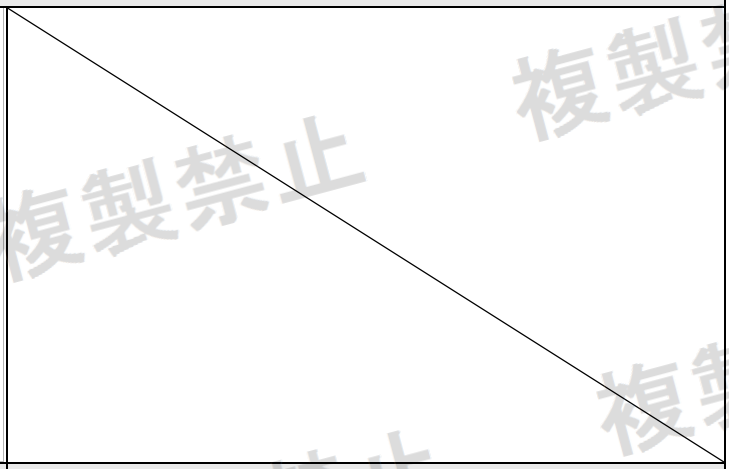
CH 64 (5320 MHz)



CH 100 (5500 MHz)



CH 120 (5600 MHz)

V_{normal}	
	
CH 144 (5720 MHz)	

802.11ac (VHT20) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
36	5180	17.90
48	5240	17.78
52	5260	17.70
64	5320	17.86
100	5500	17.80
120	5600	17.70
144	5720	17.80

NOTE: For the test plots please refer to the below pages.

802.11ac (VHT20) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
36	5180	17.80
48	5240	17.80
52	5260	17.80
64	5320	17.90
100	5500	17.78
120	5600	17.60
144	5720	17.70

NOTE: For the test plots please refer to the below pages.

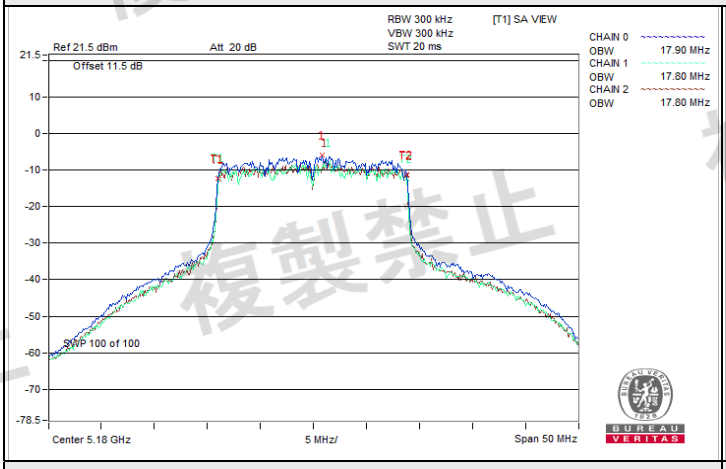
802.11ac (VHT20) Chain 2

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
36	5180	17.80
48	5240	17.80
52	5260	17.80
64	5320	17.80
100	5500	17.80
120	5600	17.80
144	5720	17.80

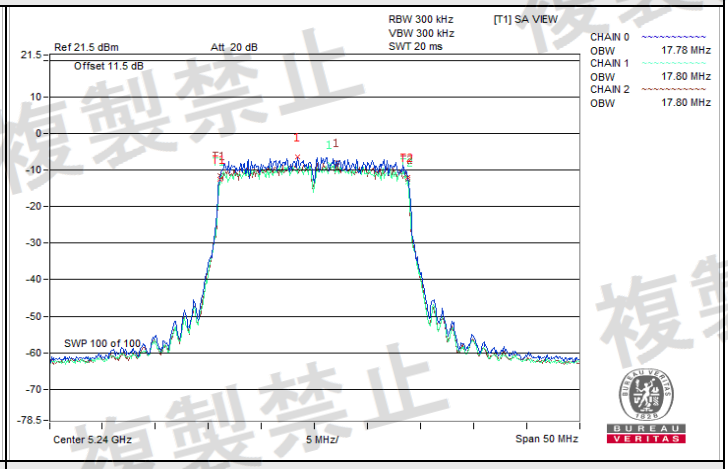
NOTE: For the test plots please refer to the below pages.

802.11ac (VHT20) Graph

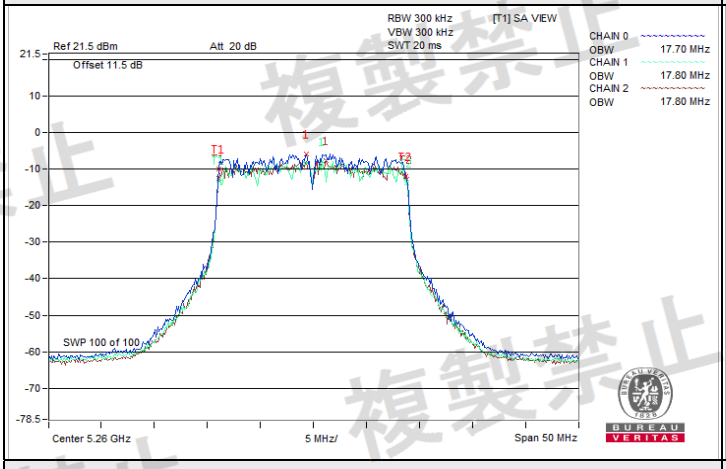
Vnormal



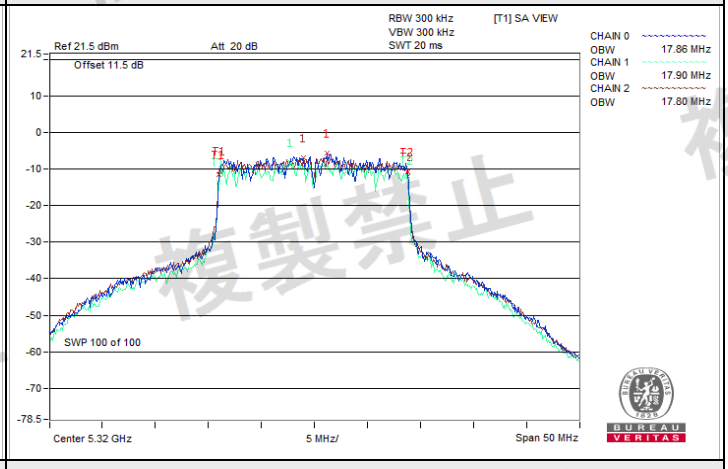
CH 36 (5180 MHz)



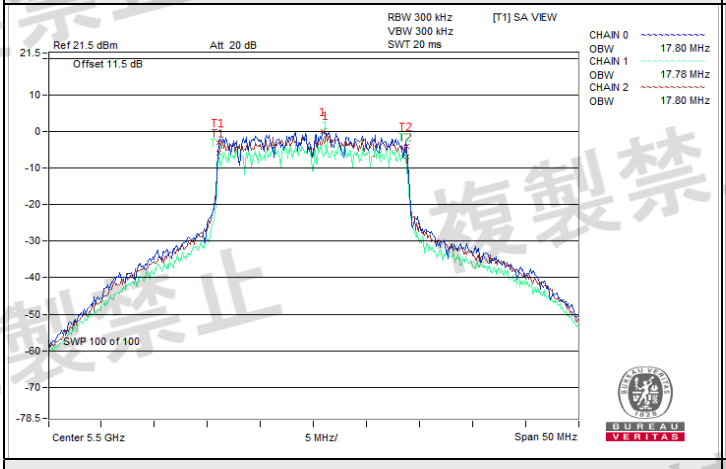
CH 48 (5240 MHz)



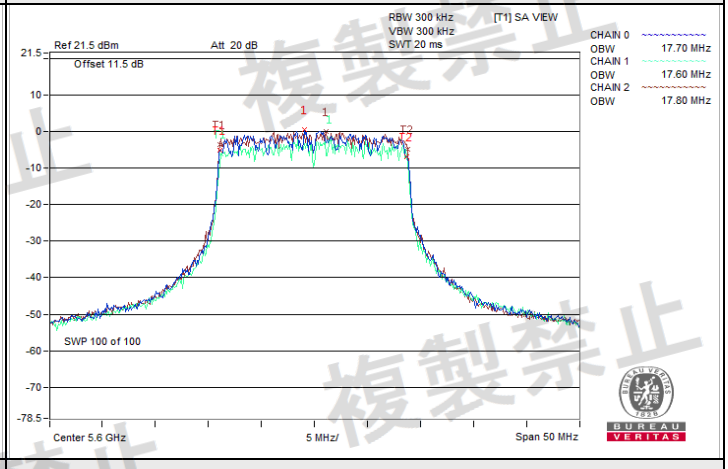
CH 52 (5260 MHz)



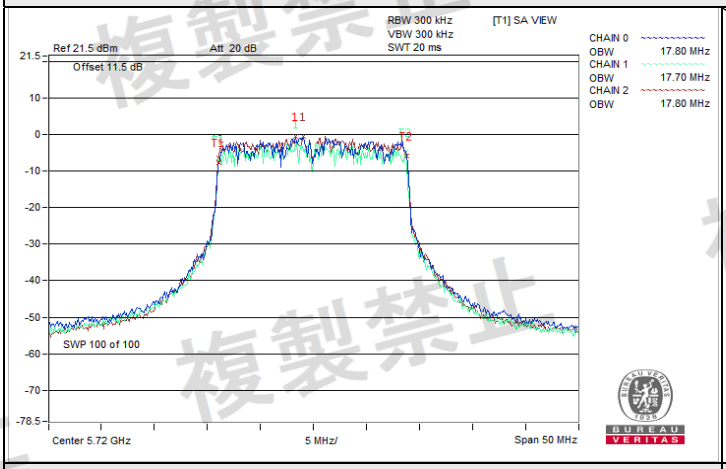
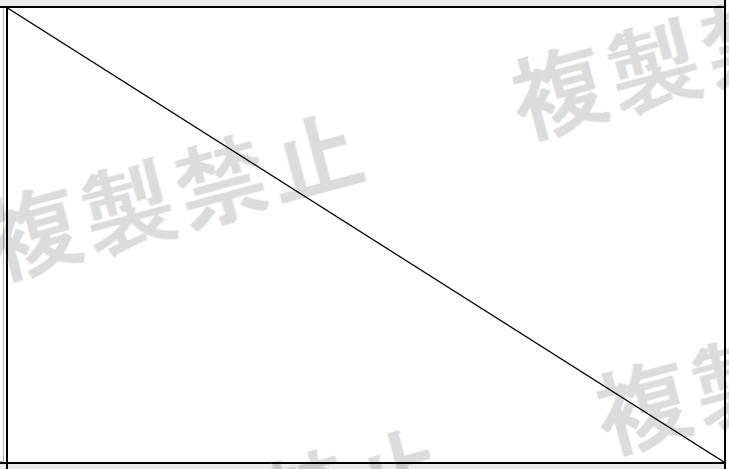
CH 64 (5320 MHz)



CH 100 (5500 MHz)



CH 120 (5600 MHz)

V_{normal}	
	
CH 144 (5720 MHz)	

802.11ac (VHT40) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
38	5190	36.60
46	5230	36.40
54	5270	36.40
62	5310	36.40
102	5510	36.40
118	5590	36.20
142	5710	36.40

NOTE: For the test plots please refer to the below pages.

802.11ac (VHT40) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
38	5190	36.60
46	5230	36.38
54	5270	36.40
62	5310	36.54
102	5510	36.54
118	5590	36.20
142	5710	36.40

NOTE: For the test plots please refer to the below pages.

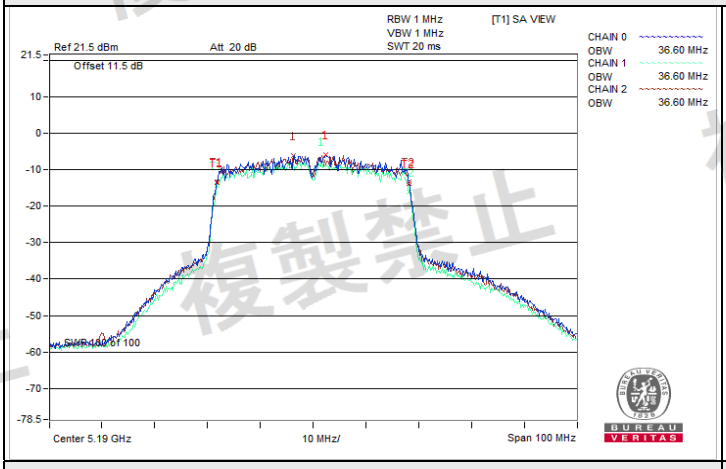
802.11ac (VHT40) Chain 2

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
38	5190	36.60
46	5230	36.40
54	5270	36.60
62	5310	36.60
102	5510	36.60
118	5590	36.40
142	5710	36.60

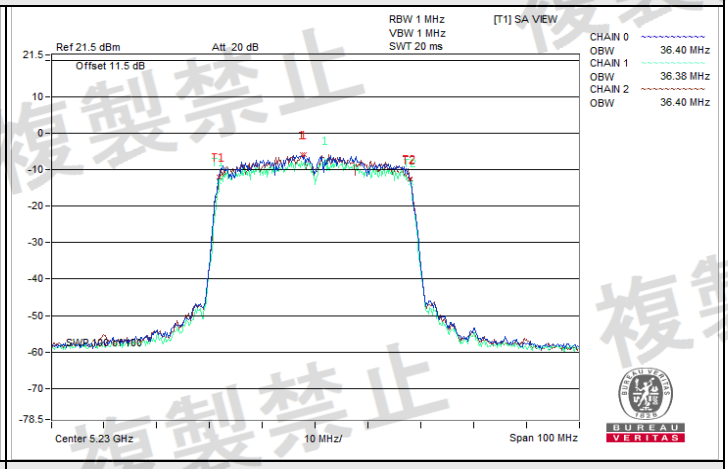
NOTE: For the test plots please refer to the below pages.

802.11ac (VHT40) Graph

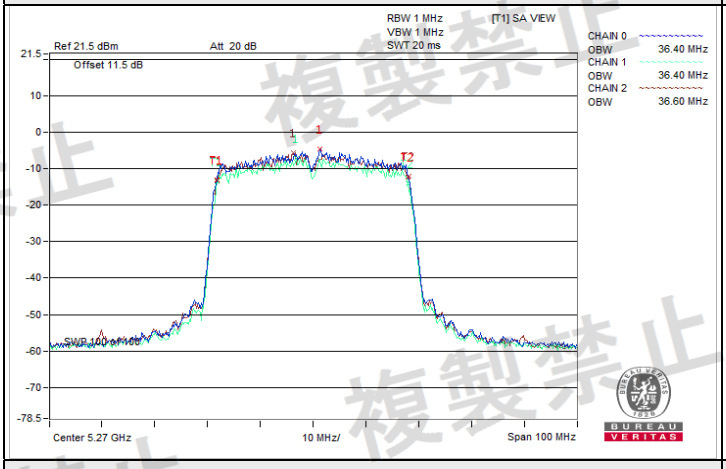
Vnormal



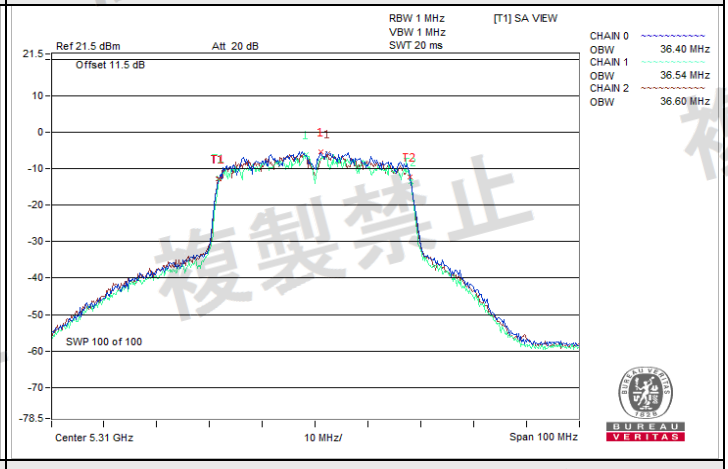
CH 38 (5190 MHz)



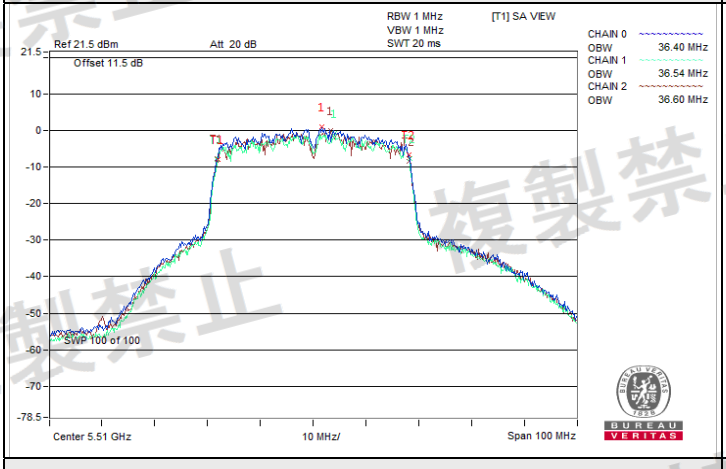
CH 46 (5230 MHz)



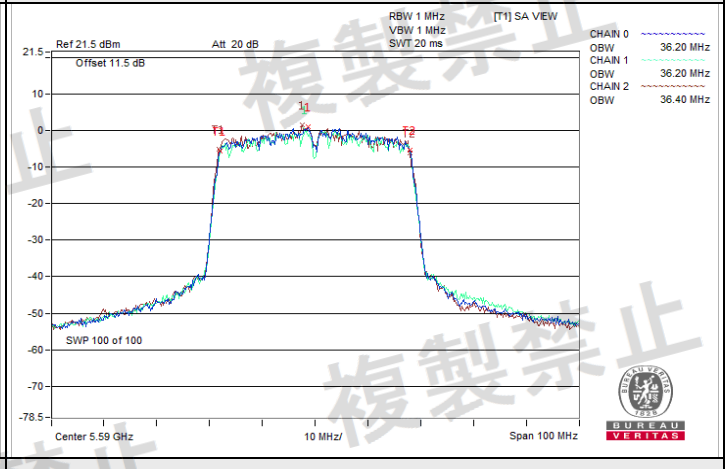
CH 54 (5270 MHz)



CH 62 (5310 MHz)

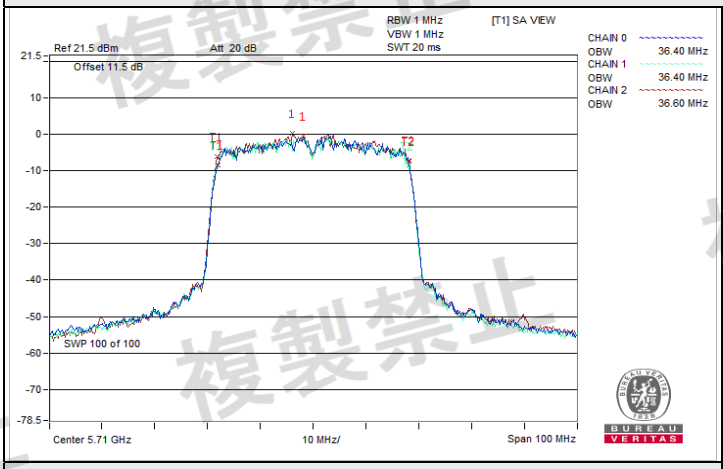


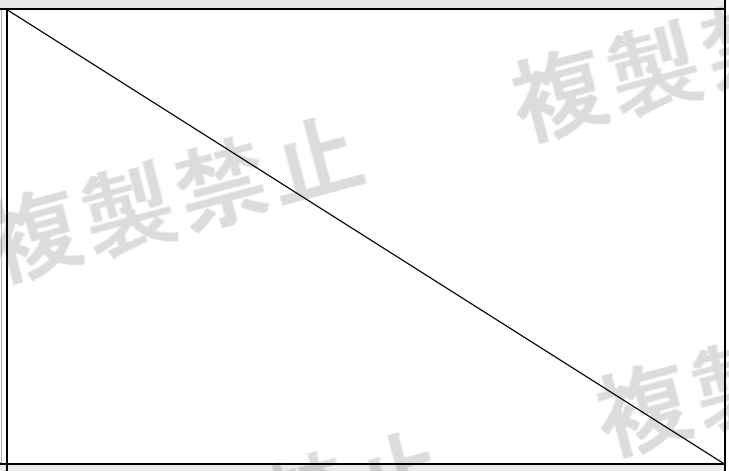
CH 102 (5510 MHz)



CH 118 (5590 MHz)

Vnormal





CH 142 (5710 MHz)

802.11ac (VHT80) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
42	5210	75.60
58	5290	76.00
106	5530	75.60
122	5610	75.60
138	5690	75.20

NOTE: For the test plots please refer to the below pages.

802.11ac (VHT80) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
42	5210	75.60
58	5290	75.60
106	5530	75.60
122	5610	75.60
138	5690	75.20

NOTE: For the test plots please refer to the below pages.

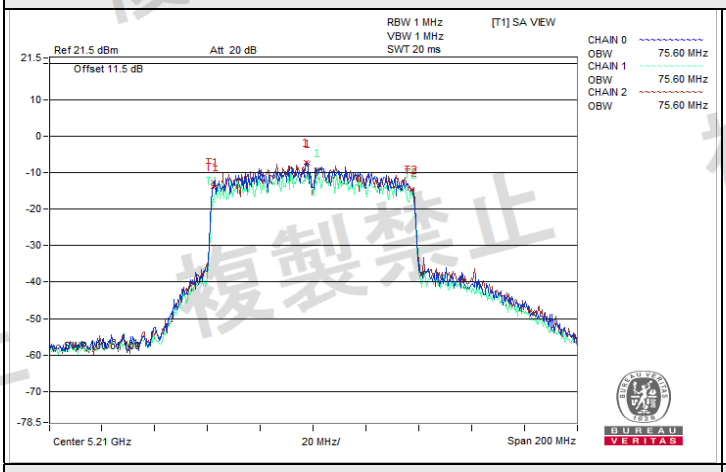
802.11ac (VHT80) Chain 2

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
42	5210	75.60
58	5290	75.60
106	5530	75.60
122	5610	75.60
138	5690	75.60

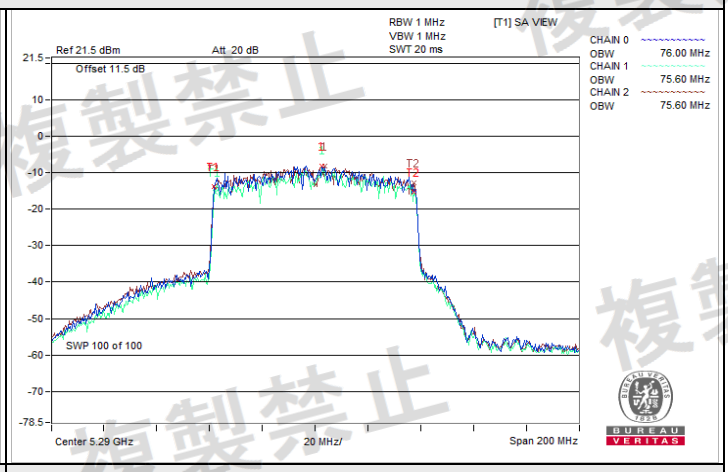
NOTE: For the test plots please refer to the below pages.

802.11ac (VHT80) Graph

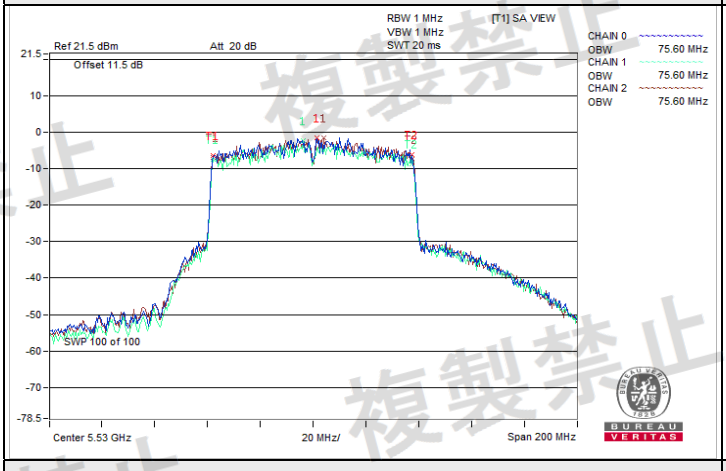
Vnormal



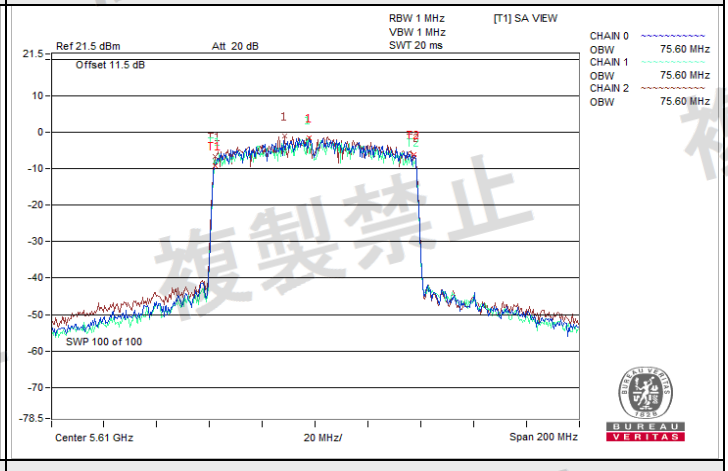
CH 42 (5210 MHz)



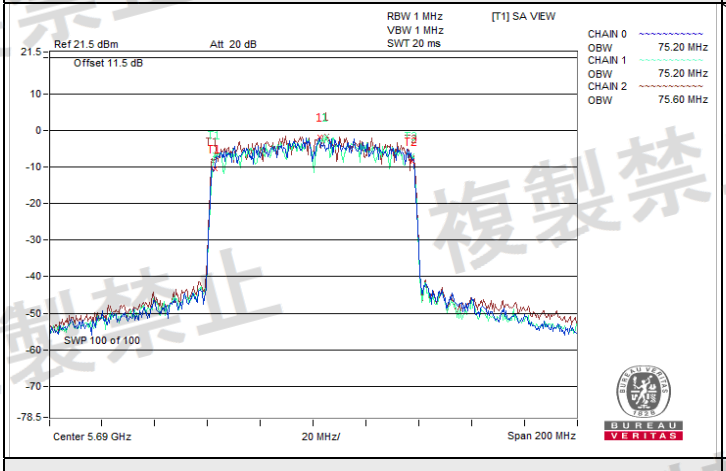
CH 58 (5290 MHz)



CH 106 (5530 MHz)



CH 122 (5610 MHz)



CH 138 (5690 MHz)

802.11ac (VHT160) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
50	5250	154.48
114	5570	154.48

NOTE: For the test plots please refer to the below pages.

802.11ac (VHT160) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
50	5250	154.48
114	5570	154.40

NOTE: For the test plots please refer to the below pages.

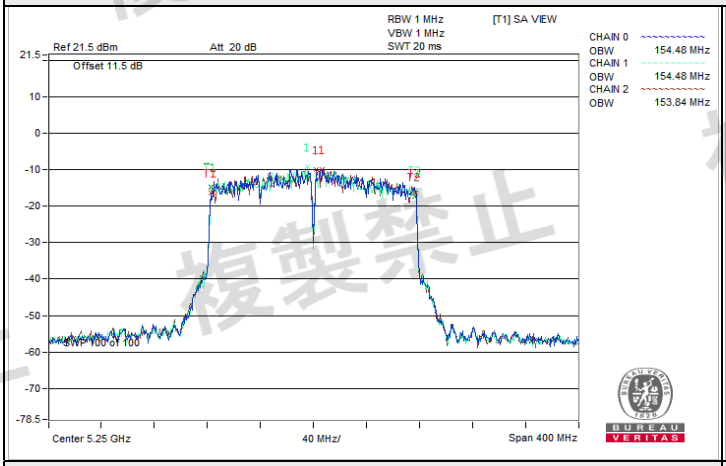
802.11ac (VHT160) Chain 2

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
50	5250	153.84
114	5570	154.40

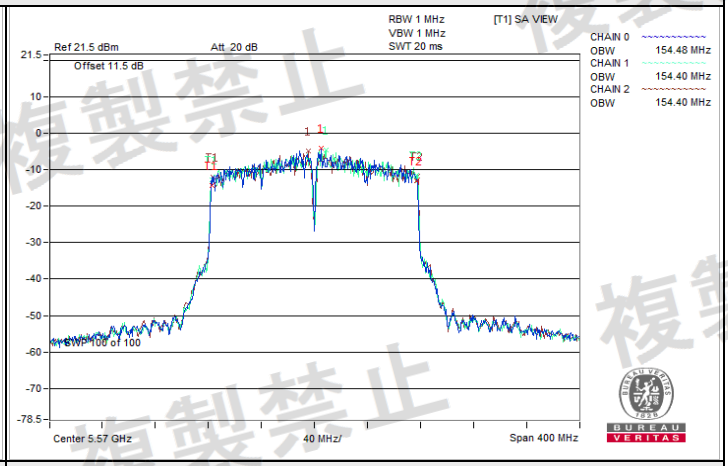
NOTE: For the test plots please refer to the below pages.

802.11ac (VHT160) Graph

Vnormal



CH 50 (5250 MHz)



CH 114 (5570 MHz)

802.11ax (HE20) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
36	5180	19.00
48	5240	19.00
52	5260	19.00
64	5320	19.10
100	5500	19.00
120	5600	19.00
144	5720	18.90

NOTE: For the test plots please refer to the below pages.

802.11ax (HE20) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
36	5180	19.08
48	5240	19.00
52	5260	19.00
64	5320	19.00
100	5500	19.08
120	5600	19.00
144	5720	19.00

NOTE: For the test plots please refer to the below pages.

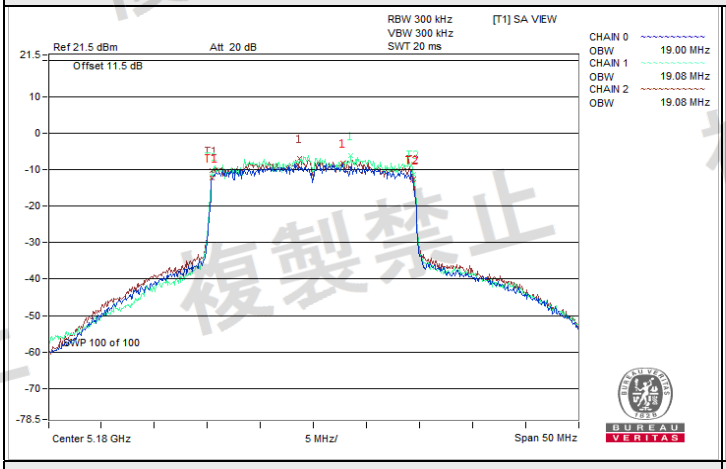
802.11ax (HE20) Chain 2

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
36	5180	19.08
48	5240	19.00
52	5260	18.90
64	5320	18.90
100	5500	19.10
120	5600	18.90
144	5720	18.90

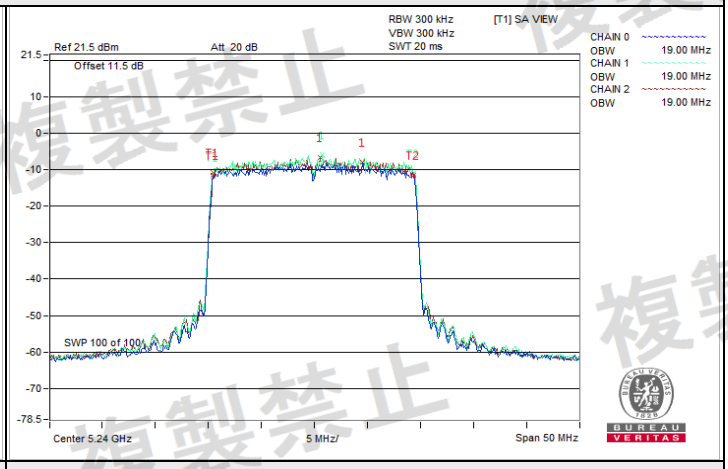
NOTE: For the test plots please refer to the below pages.

802.11ax (HE20) Graph

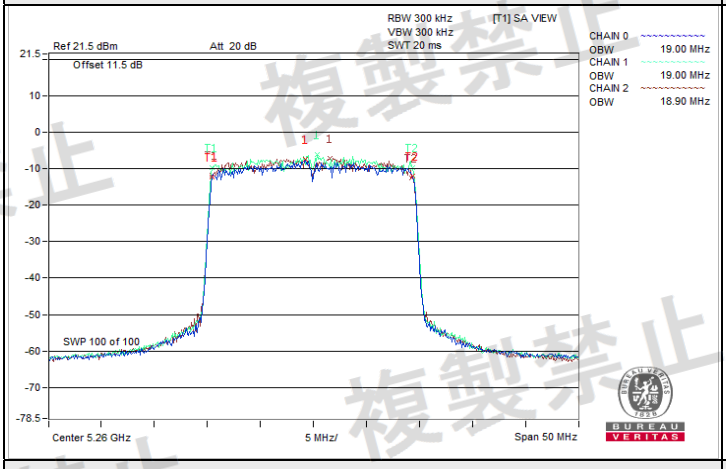
Vnormal



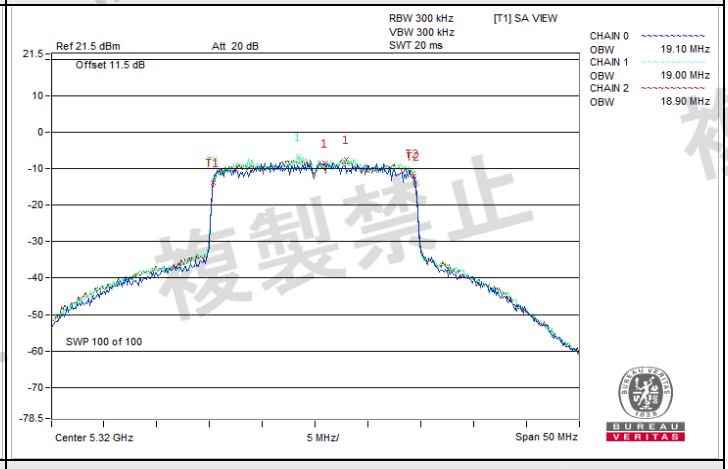
CH 36 (5180 MHz)



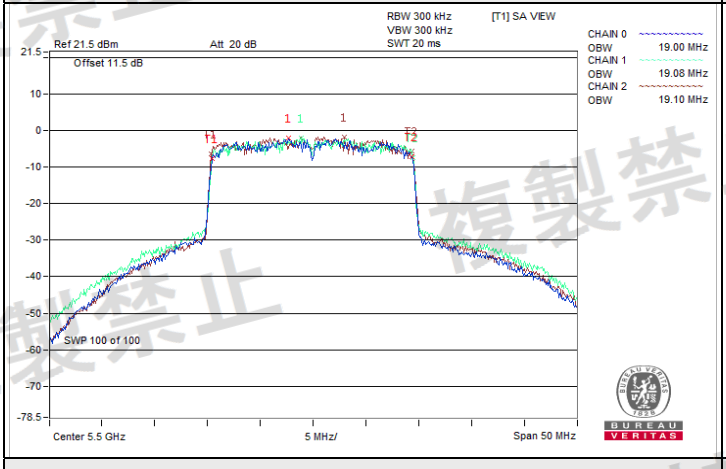
CH 48 (5240 MHz)



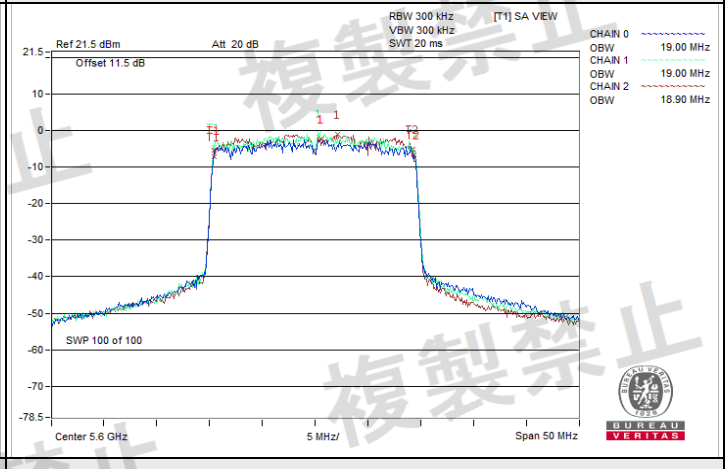
CH 52 (5260 MHz)



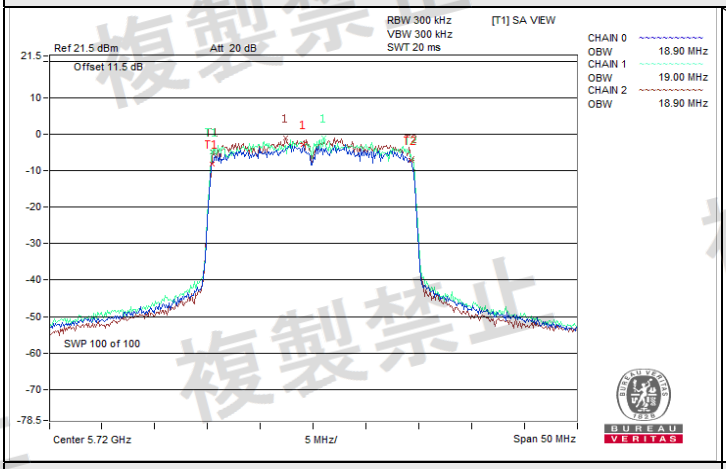
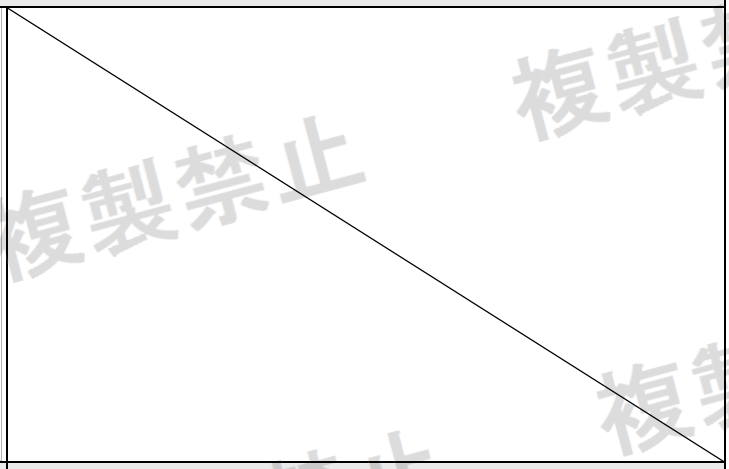
CH 64 (5320 MHz)



CH 100 (5500 MHz)



CH 120 (5600 MHz)

V_{normal}	
	
CH 144 (5720 MHz)	

802.11ax (HE40) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
38	5190	37.80
46	5230	37.80
54	5270	37.80
62	5310	38.00
102	5510	37.80
118	5590	37.80
142	5710	37.80

NOTE: For the test plots please refer to the below pages.

802.11ax (HE40) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
38	5190	37.80
46	5230	37.80
54	5270	37.80
62	5310	38.00
102	5510	37.80
118	5590	37.80
142	5710	37.80

NOTE: For the test plots please refer to the below pages.

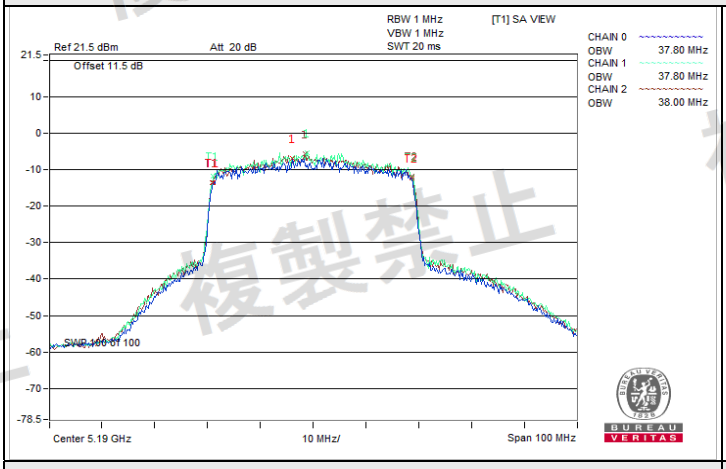
802.11ax (HE40) Chain 2

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
38	5190	38.00
46	5230	38.00
54	5270	37.80
62	5310	38.00
102	5510	38.20
118	5590	38.00
142	5710	37.80

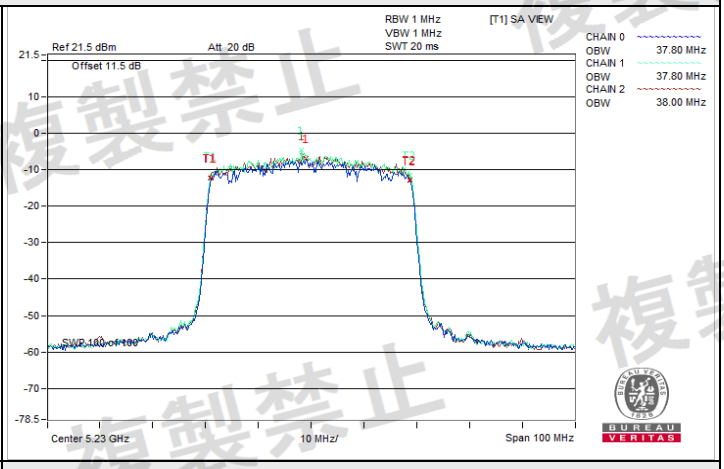
NOTE: For the test plots please refer to the below pages.

802.11ax (HE40) Graph

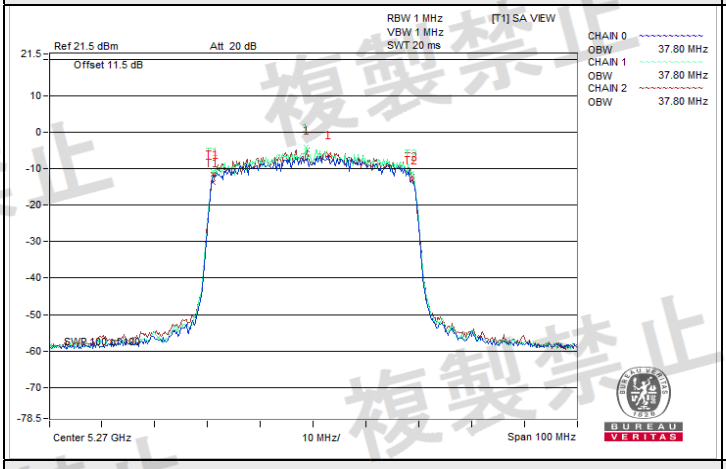
Vnormal



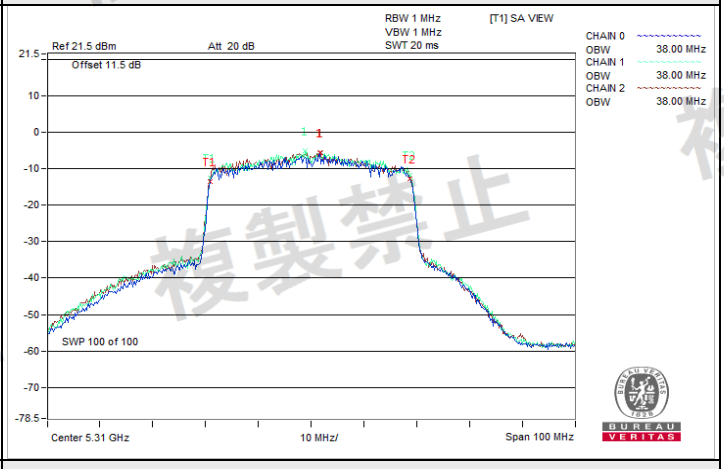
CH 38 (5190 MHz)



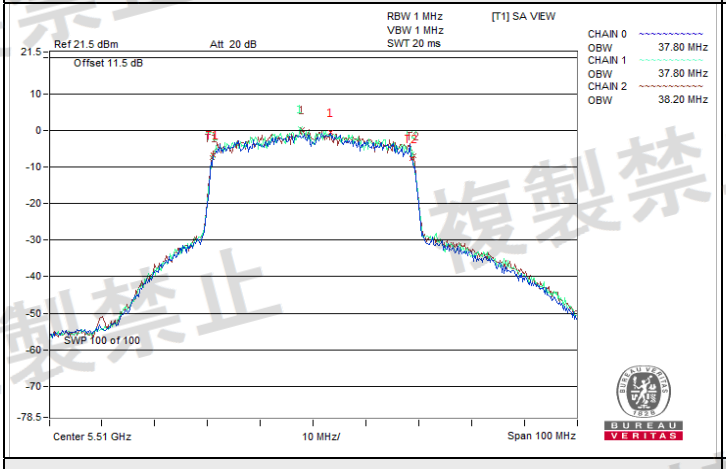
CH 46 (5230 MHz)



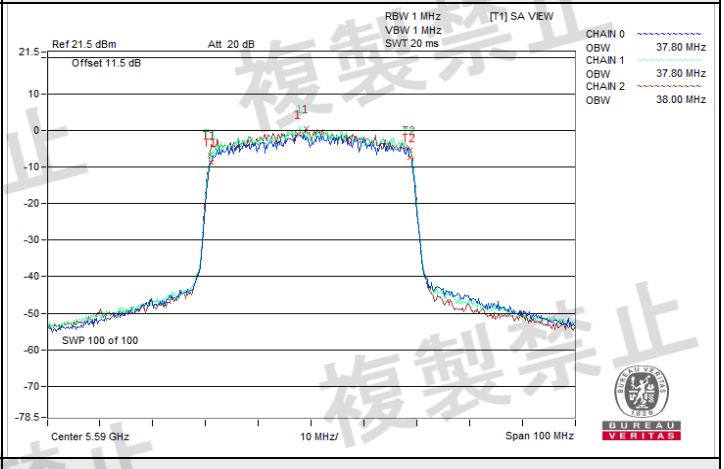
CH 54 (5270 MHz)



CH 62 (5310 MHz)

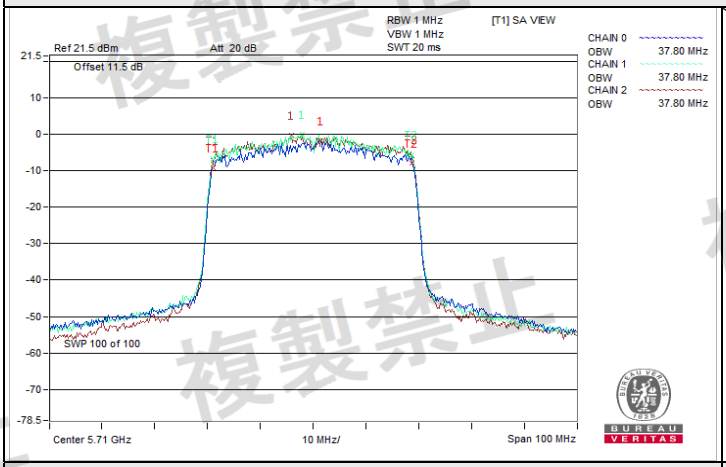


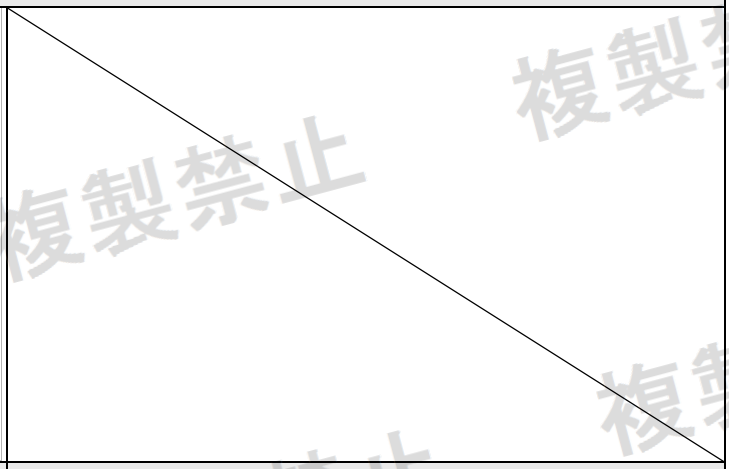
CH 102 (5510 MHz)



CH 118 (5590 MHz)

Vnormal





CH 142 (5710 MHz)

802.11ax (HE80) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
42	5210	77.60
58	5290	77.20
106	5530	77.20
122	5610	77.20
138	5690	77.20

NOTE: For the test plots please refer to the below pages.

802.11ax (HE80) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
42	5210	77.20
58	5290	77.20
106	5530	77.20
122	5610	77.20
138	5690	77.20

NOTE: For the test plots please refer to the below pages.

802.11ax (HE80) Chain 2

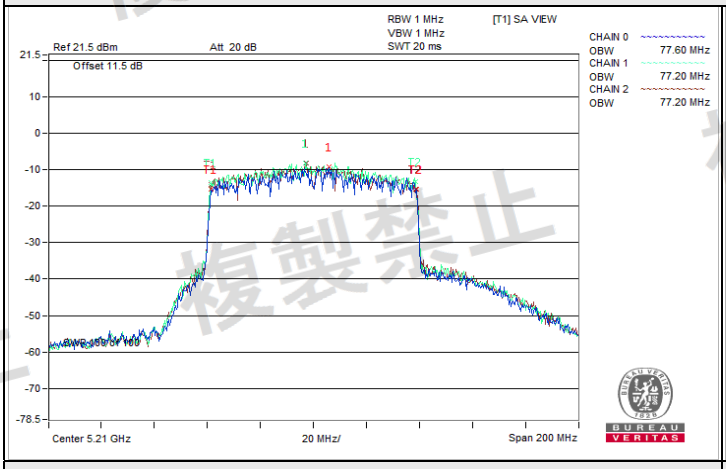
Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
42	5210	77.20
58	5290	77.20
106	5530	77.20
122	5610	77.20
138	5690	77.20

NOTE: For the test plots please refer to the below pages.

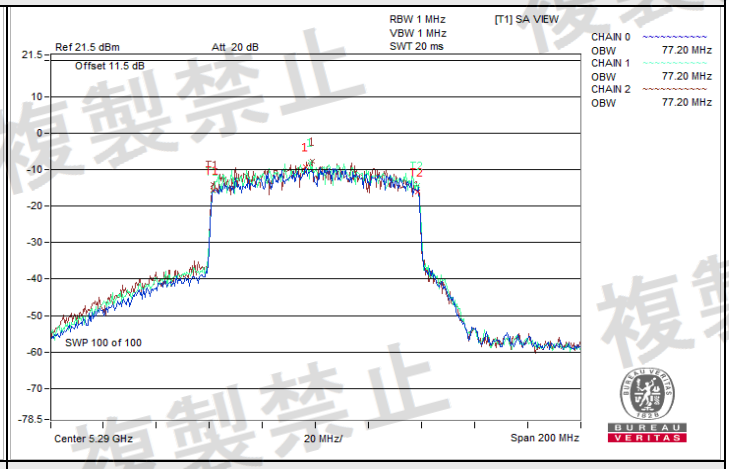
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802.11ax (HE80) Graph

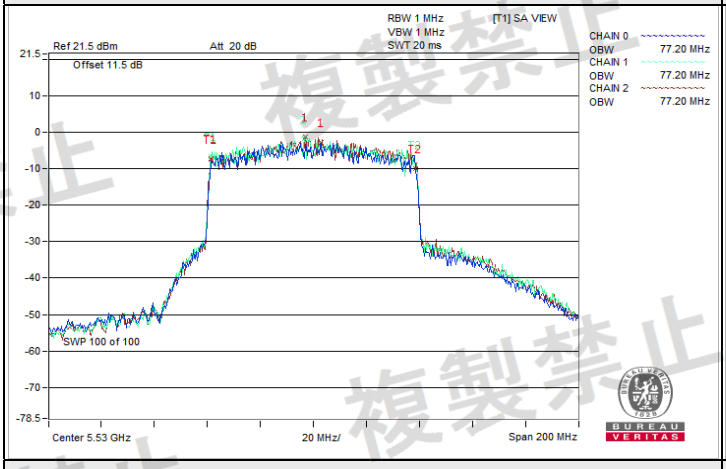
Vnormal



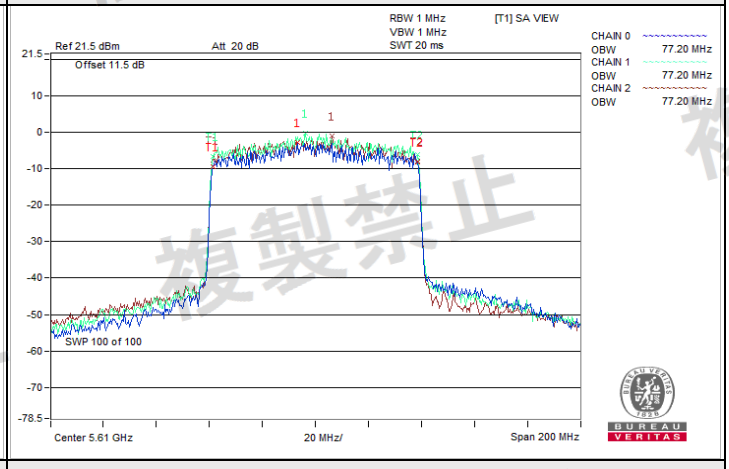
CH 42 (5210 MHz)



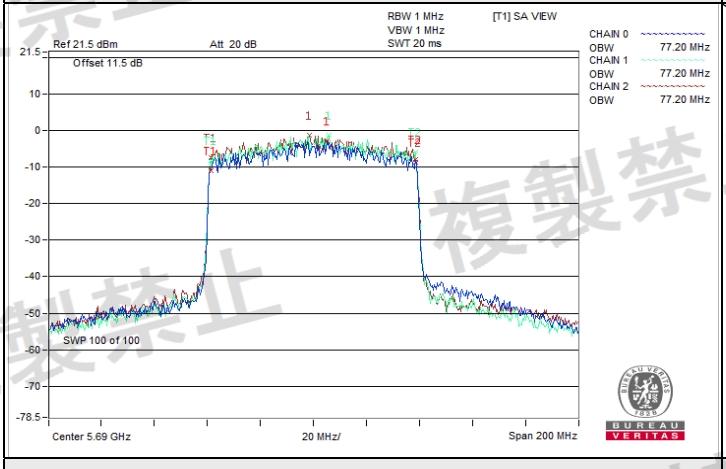
CH 58 (5290 MHz)



CH 106 (5530 MHz)



CH 122 (5610 MHz)



CH 138 (5690 MHz)

802.11ax (HE160) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
50	5250	155.13
114	5570	155.20

NOTE: For the test plots please refer to the below pages.

802.11ax (HE160) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
50	5250	155.77
114	5570	156.00

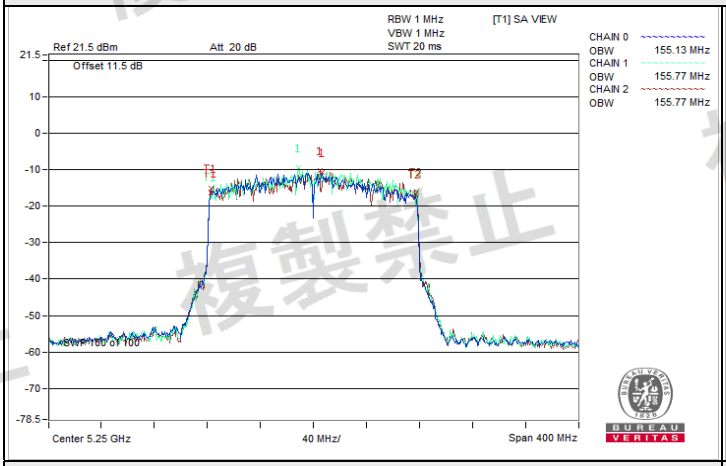
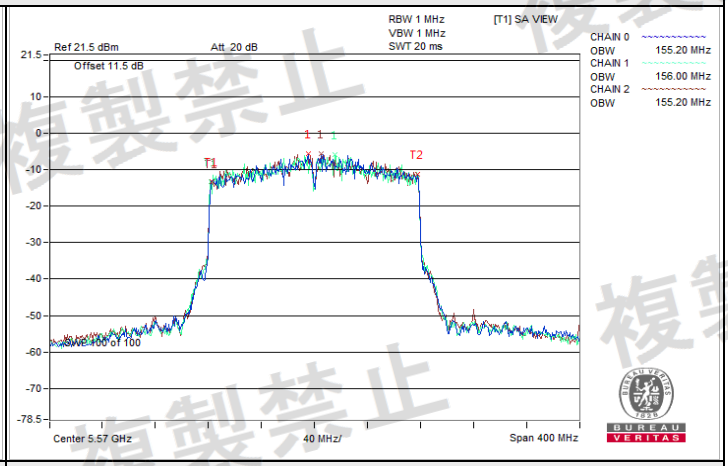
NOTE: For the test plots please refer to the below pages.

802.11ax (HE160) Chain 2

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
50	5250	155.77
114	5570	155.20

NOTE: For the test plots please refer to the below pages.

802.11ax (HE160) Graph

V_{normal}	
	
CH 50 (5250 MHz)	CH 114 (5570 MHz)

7.3 Spurious Emissions

Environmental Conditions:	25°C, 65% RH	Tested By:	Chris Lin

802.11a Chain 0 W52

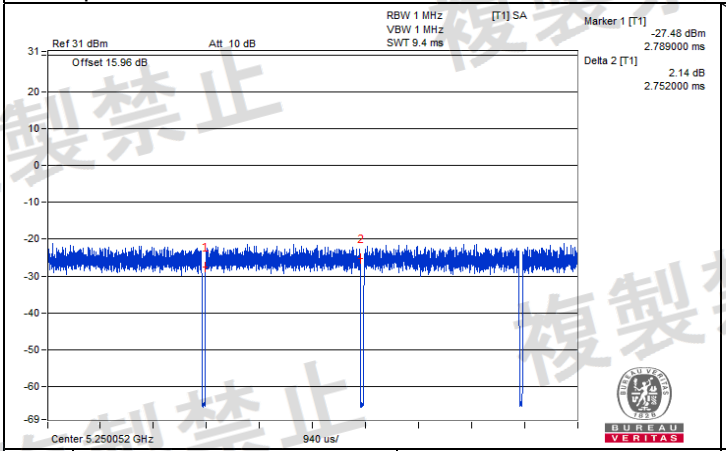
TEST CHANNEL		CH 36 (5180 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	348.887	0.003304	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	5106.793	0.02466	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5142.358	0.11324	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.270	0.078163	179.010599 uW/MHz	PASS
	5251.0 to 5260.0	5256.973	0.114288	9.816246 uW/MHz	PASS
	5260.0 to 5266.7	5262.117	0.097499	2.947486 uW/MHz	PASS
	5266.7 to 26000.0	5282.249	0.026853	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 48 (5240 MHz)			
V_{normal}	30.0 to 1000.0	472.683	0.003524	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	5043.109	0.017579	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5142.763	0.107152	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.052	2.787244	295.718671 uW/MHz	PASS(1)
	5251.0 to 5260.0	5251.034	15.52387	33.102175 uW/MHz	PASS
	5260.0 to 5266.7	5264.595	0.345144	1.488707 uW/MHz	PASS
	5266.7 to 26000.0	5269.291	0.101859	0.833333 uW/MHz	PASS

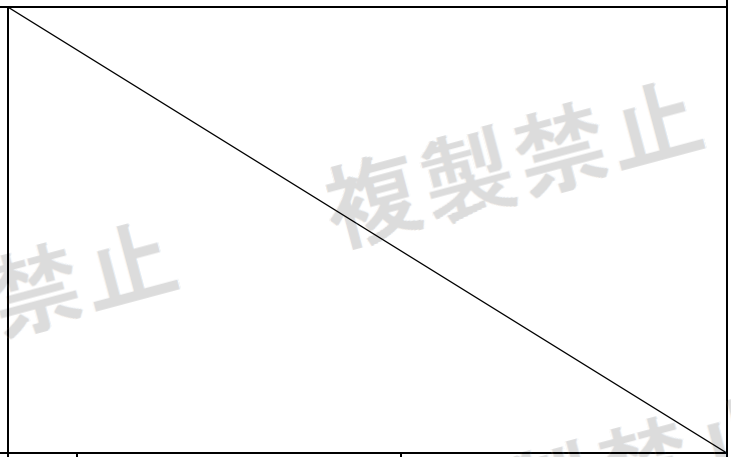
NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.





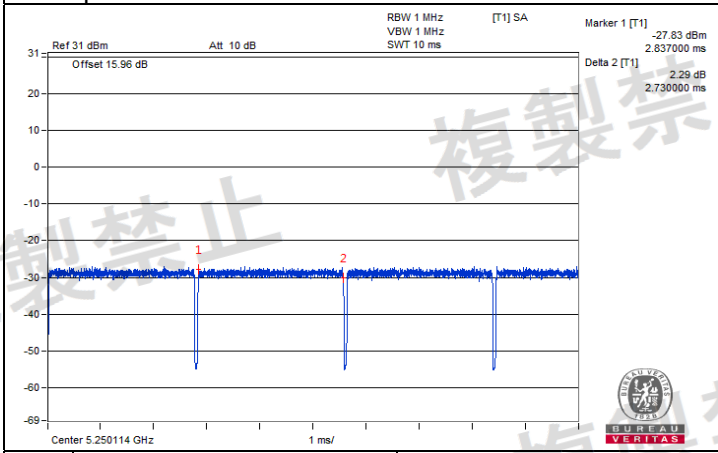
1	5250.052MHz	P = 2.787244uW/MHz			

802.11a Chain 1 W52

TEST CHANNEL		CH 36 (5180 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	415.696	0.004266	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	4874.323	0.026122	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5147.689	0.097051	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.270	0.070307	179.010599 uW/MHz	PASS
	5251.0 to 5260.0	5258.407	0.102094	7.319455 uW/MHz	PASS
	5260.0 to 5266.7	5262.413	0.100693	2.716548 uW/MHz	PASS
	5266.7 to 26000.0	25961.125	0.017219	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 48 (5240 MHz)			
V_{normal}	30.0 to 1000.0	157.555	0.003724	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	4874.323	0.021577	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5142.483	0.082224	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.114	1.294567	256.376814 uW/MHz	PASS(1)
	5251.0 to 5260.0	5251.000	8.491805	33.333333 uW/MHz	PASS
	5260.0 to 5266.7	5263.286	0.283139	2.135552 uW/MHz	PASS
	5266.7 to 26000.0	24763.776	0.016827	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point. 2. Regarding the all data value, it transforms the “dBm” value into “uW” value. 3. It adds the all values and calculates a grand total. Define a grand total as “P”. 4. It divides “P” by sample data point (ex.501) and calculates the mean value. 5. It reports the mean value.



1	5250.114MHz	P = 1.294567uW/MHz			

802.11a Chain 2 W52

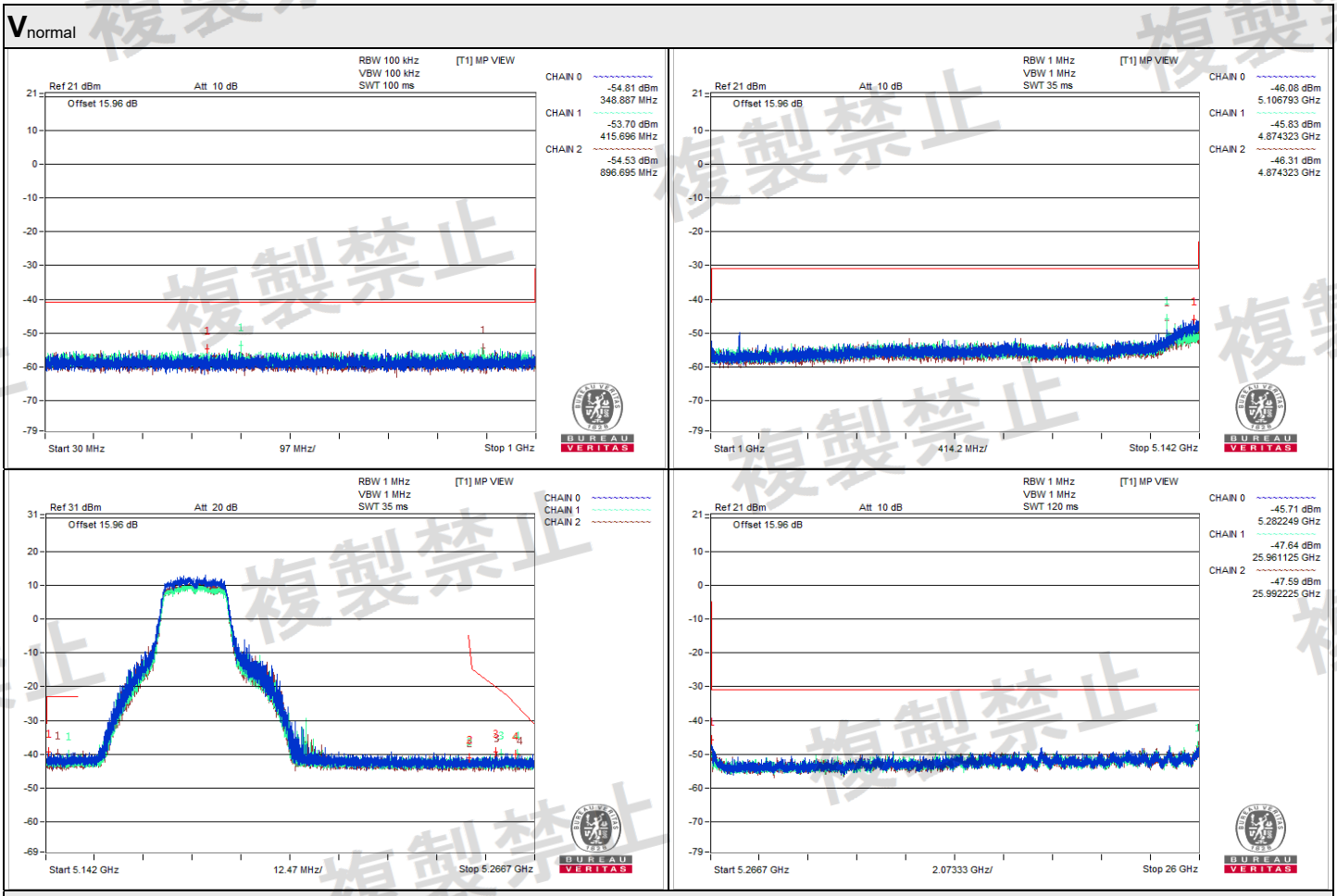
TEST CHANNEL		CH 36 (5180 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	896.695	0.003524	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	4874.323	0.023388	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5144.805	0.105925	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.130	0.062661	247.103414 uW/MHz	PASS
	5251.0 to 5260.0	5257.191	0.086099	9.387882 uW/MHz	PASS
	5260.0 to 5266.7	5263.239	0.074817	2.163399 uW/MHz	PASS
	5266.7 to 26000.0	25992.225	0.017418	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 48 (5240 MHz)			
V_{normal}	30.0 to 1000.0	654.073	0.003491	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	5120.772	0.01652	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5143.667	0.08892	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.068	130.316678	285.022238 uW/MHz	PASS
	5251.0 to 5260.0	5251.018	6.591739	33.210755 uW/MHz	PASS
	5260.0 to 5266.7	5260.792	0.108893	4.246861 uW/MHz	PASS
	5266.7 to 26000.0	23597.528	0.020749	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

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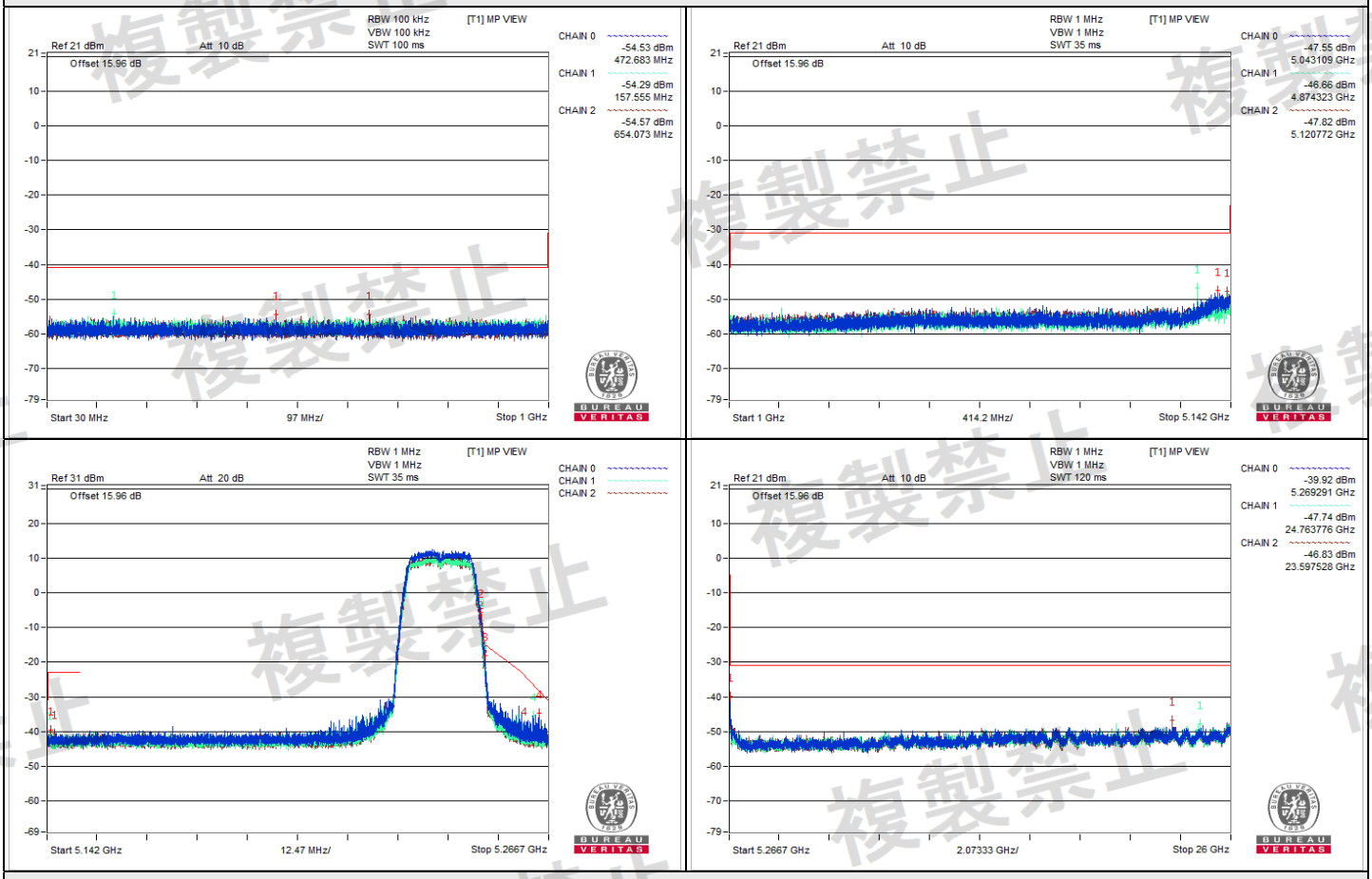
802.11a Graph W52

Vnormal



CH 36 (5180 MHz)

Vnormal



CH 48 (5240 MHz)

802.11a [Worst result] x [Number of antenna ports] W52

TEST CHANNEL		CH 36 (5180 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.012798	0.25uW/100kHz	PASS
	1000.0 to 5142.0	0.078366	2.5uW/MHz	PASS
	5142.0 to 5150.0	0.339720	15uW/MHz	PASS
	5250.0 to 5251.0	0.234489	537.0318uW/MHz	PASS
	5251.0 to 5260.0	0.342864	29.44874uW/MHz	PASS
	5260.0 to 5266.7	0.302079	8.14964uW/MHz	PASS
	5266.7 to 26000.0	0.080559	2.5uW/MHz	PASS
TEST CHANNEL		CH 48 (5240 MHz)		
V_{normal}	30.0 to 1000.0	0.011172	0.25uW/100kHz	PASS
	1000.0 to 5142.0	0.064731	2.5uW/MHz	PASS
	5142.0 to 5150.0	0.321456	15uW/MHz	PASS
	5250.0 to 5251.0	390.950034	855.06671uW/MHz	PASS
	5251.0 to 5260.0	46.571610	99.30653uW/MHz	PASS
	5260.0 to 5266.7	1.035432	4.46612uW/MHz	PASS
	5266.7 to 26000.0	0.305577	2.5uW/MHz	PASS

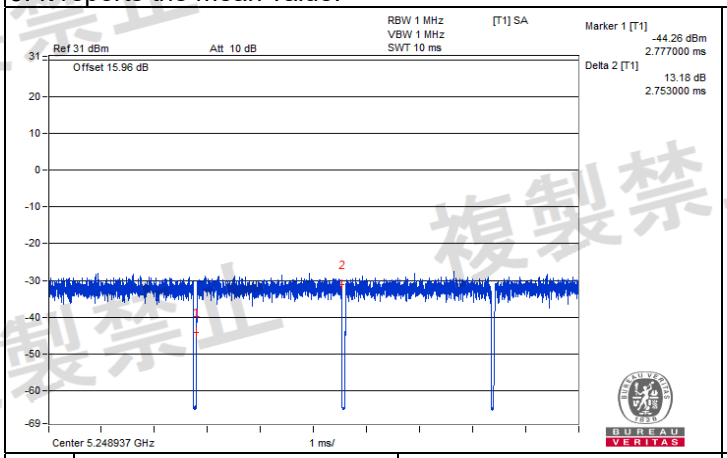
802.11a Chain 0 W53

TEST CHANNEL		CH 52 (5260 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	241.581	0.00335	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	1762.523	0.044668	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5235.313	0.466659	1.451429 uW/MHz	PASS
	5240.0 to 5249.0	5248.937	0.615188	32.906277 uW/MHz	PASS(1)
	5249.0 to 5250.0	5249.915	2.385477	274.080884 uW/MHz	PASS(2)
	5350.0 to 26000.0	5391.300	0.01714	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 64 (5320 MHz)			
V_{normal}	30.0 to 1000.0	265.225	0.003724	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	5218.483	0.017338	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5237.720	0.105196	2.817987 uW/MHz	PASS
	5240.0 to 5249.0	5248.966	0.093756	33.102175 uW/MHz	PASS
	5249.0 to 5250.0	5249.404	0.092257	84.504288 uW/MHz	PASS
	5350.0 to 26000.0	5380.975	0.025823	0.833333 uW/MHz	PASS

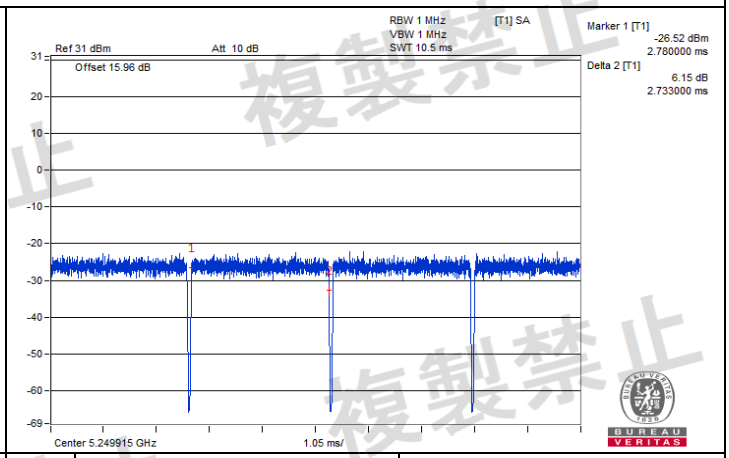
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5248.937MHz	P = 0.615188uW/MHz



2	5249.915MHz	P = 2.385477uW/MHz

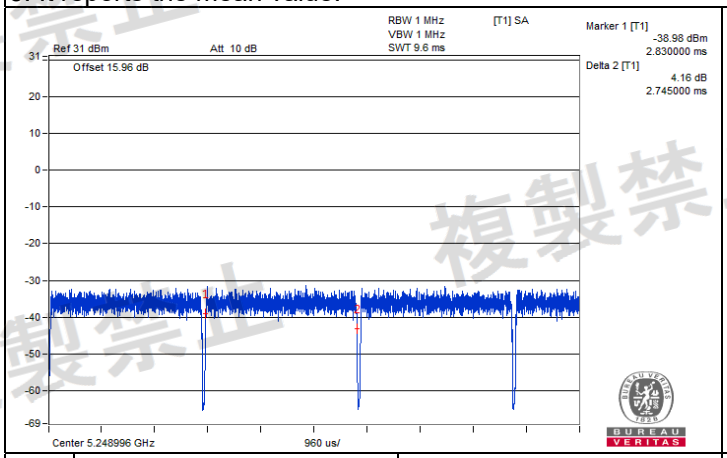
802.11a Chain 1 W53

TEST CHANNEL		CH 52 (5260 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	983.388	0.003342	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	5229.066	0.024099	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5239.762	0.355631	4.947521 uW/MHz	PASS
	5240.0 to 5249.0	5248.996	0.251329	33.306055 uW/MHz	PASS(1)
	5249.0 to 5250.0	5249.988	1.920896	324.249075 uW/MHz	PASS(2)
	5350.0 to 26000.0	22977.356	0.014757	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 64 (5320 MHz)			
V_{normal}	30.0 to 1000.0	704.756	0.00695	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	4873.998	0.034119	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5235.736	0.107152	1.630923 uW/MHz	PASS
	5240.0 to 5249.0	5240.185	0.087096	5.486851 uW/MHz	PASS
	5249.0 to 5250.0	5249.652	0.062806	149.581797 uW/MHz	PASS
	5350.0 to 26000.0	5559.081	0.022284	0.833333 uW/MHz	PASS

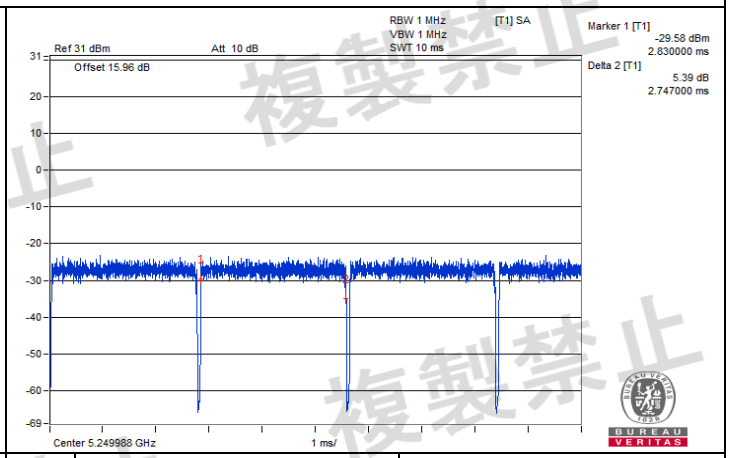
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5248.996MHz	P = 0.251329uW/MHz



2	5249.988MHz	P = 1.920896uW/MHz

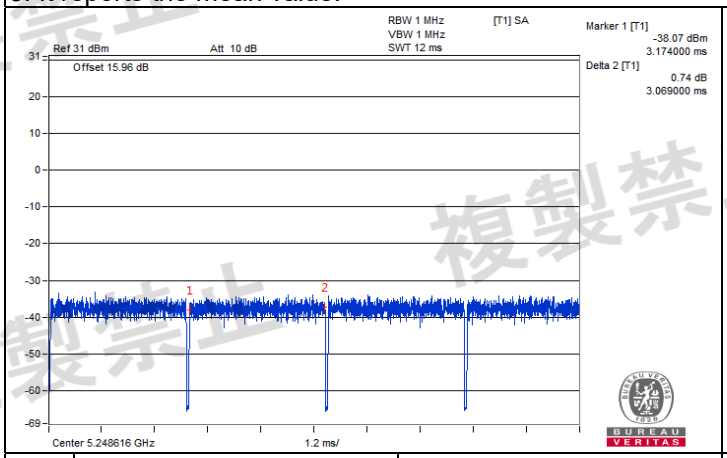
802.11a Chain 2 W53

TEST CHANNEL		CH 52 (5260 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	989.087	0.003412	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	5220.600	0.023335	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5239.981	0.22856	5.255381 uW/MHz	PASS
	5240.0 to 5249.0	5248.616	0.177079	30.813811 uW/MHz	PASS(1)
	5249.0 to 5250.0	5249.944	1.688946	293.007506 uW/MHz	PASS(2)
	5350.0 to 26000.0	24149.243	0.014388	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 64 (5320 MHz)			
V_{normal}	30.0 to 1000.0	353.616	0.003243	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	5200.491	0.016482	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5233.781	0.080353	0.95148 uW/MHz	PASS
	5240.0 to 5249.0	5245.684	0.080538	16.909205 uW/MHz	PASS
	5249.0 to 5250.0	5249.754	0.062806	189.181535 uW/MHz	PASS
	5350.0 to 26000.0	5360.325	0.038548	0.833333 uW/MHz	PASS

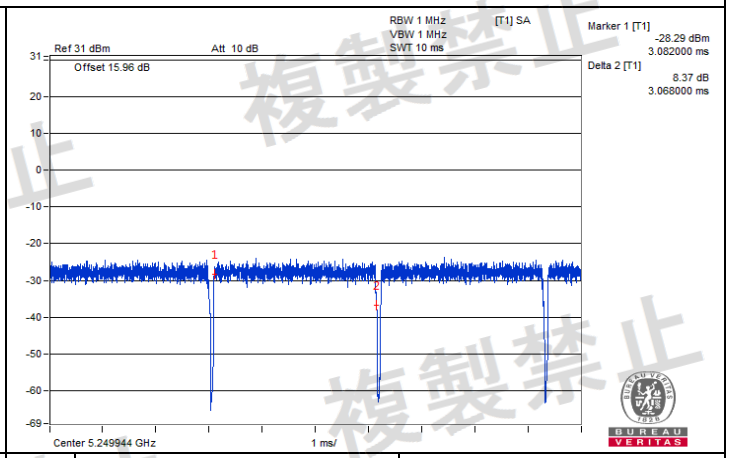
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



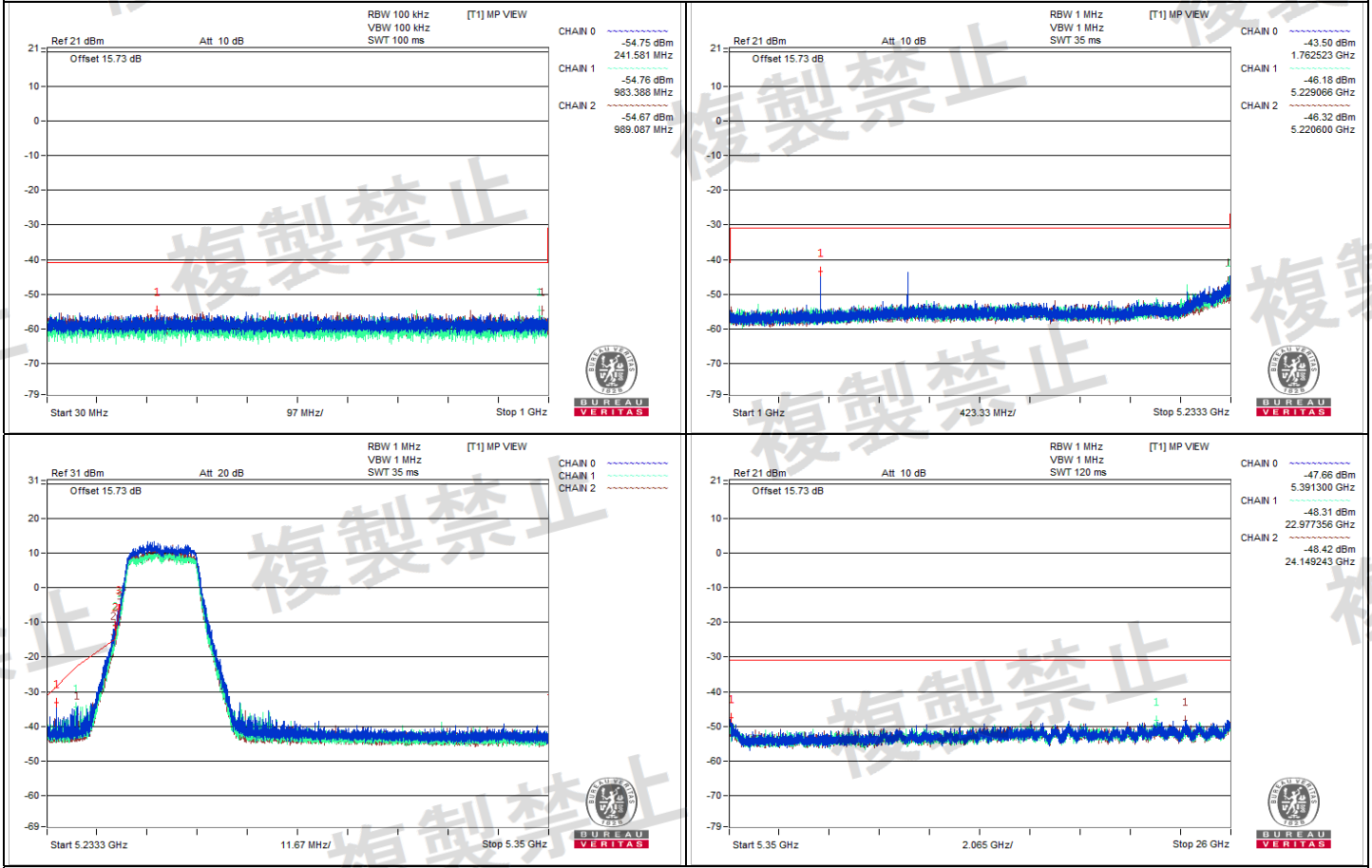
1	5248.616MHz	P = 0.177079uW/MHz



2	5249.944MHz	P = 1.688946uW/MHz

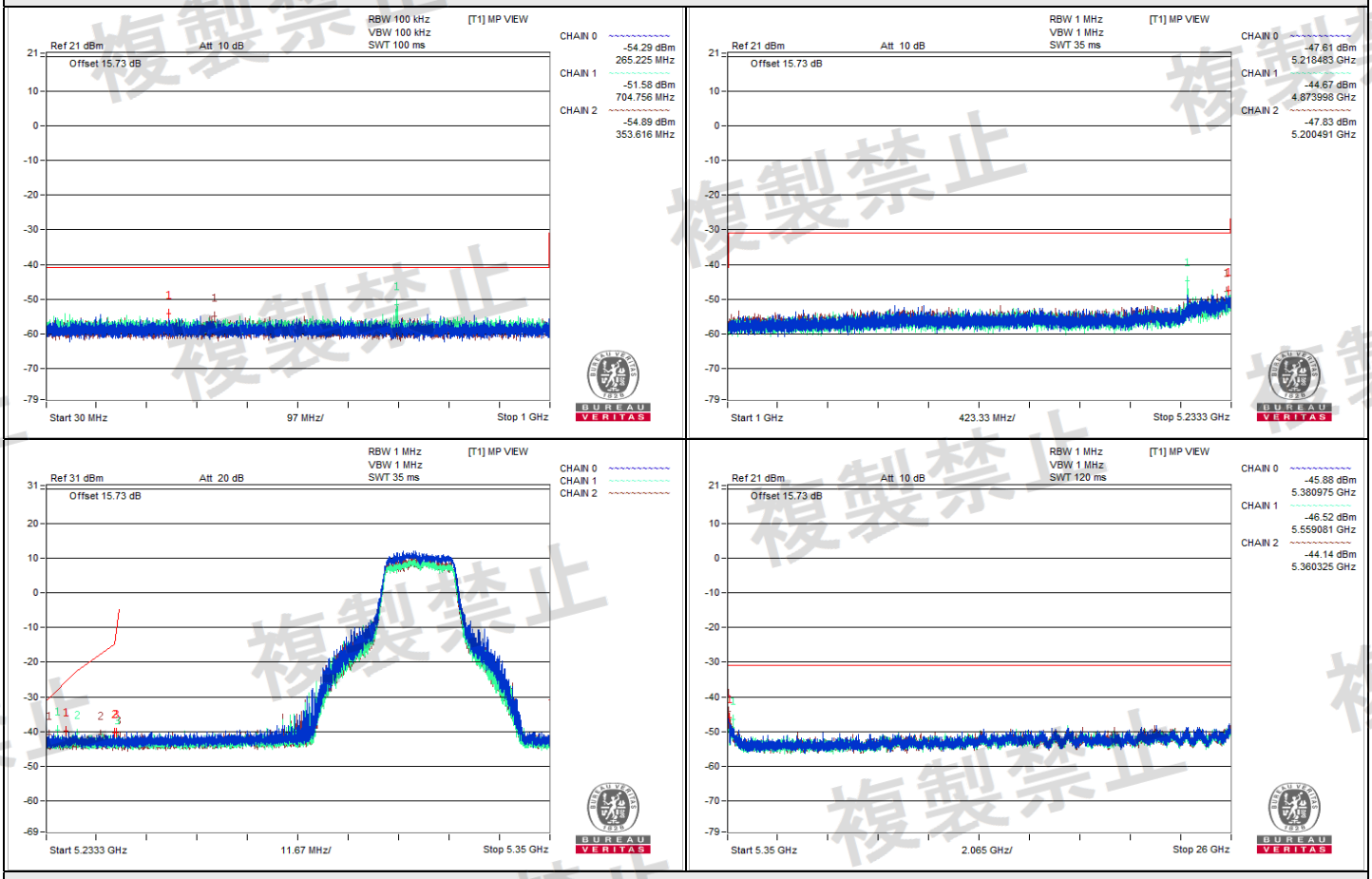
802.11a Graph W53

Vnormal



CH 52 (5260 MHz)

Vnormal



CH 64 (5320 MHz)

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802.11a [Worst result] x [Number of antenna ports] W53

TEST CHANNEL		CH 52 (5260 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.010236	0.25uW/100kHz	PASS
	1000.0 to 5233.3	0.134004	2.5uW/MHz	PASS
	5233.3 to 5240.0	1.399977	4.35429uW/MHz	PASS
	5240.0 to 5249.0	1.845564	98.71883uW/MHz	PASS
	5249.0 to 5250.0	7.156431	822.24265uW/MHz	PASS
	5350.0 to 26000.0	0.051420	2.5uW/MHz	PASS
TEST CHANNEL		CH 64 (5320 MHz)		
V_{normal}	30.0 to 1000.0	0.020850	0.25uW/100kHz	PASS
	1000.0 to 5233.3	0.102357	2.5uW/MHz	PASS
	5233.3 to 5240.0	0.321456	4.89277uW/MHz	PASS
	5240.0 to 5249.0	0.281268	99.30653uW/MHz	PASS
	5249.0 to 5250.0	0.276771	253.51286uW/MHz	PASS
	5350.0 to 26000.0	0.115644	2.5uW/MHz	PASS

802.11a Chain 0 W56

TEST CHANNEL		CH 100 (5500 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	151.856	0.003631	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5425.992	0.066988	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5460.991	0.152055	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5754.325	0.086896	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	10995.747	0.017378	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 120 (5600 MHz)			
V_{normal}	30.0 to 1000.0	402.358	0.003622	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5400.347	0.026363	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5463.050	0.080724	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5754.896	0.103039	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	11195.568	0.029854	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 144 (5720 MHz)			
V_{normal}	30.0 to 1000.0	93.171	0.003266	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5428.780	0.01977	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5460.038	0.067608	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5745.251	1.534617	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	5765.000	0.150314	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

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802.11a Chain 1 W56

TEST CHANNEL		CH 100 (5500 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	940.708	0.003802	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5458.327	0.045394	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5466.976	0.099312	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5748.796	0.074473	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	24697.371	0.019364	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 120 (5600 MHz)			
V_{normal}	30.0 to 1000.0	954.531	0.004519	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5438.815	0.020893	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5464.918	0.069343	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5750.931	0.092257	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	5838.351	0.024266	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 144 (5720 MHz)			
V_{normal}	30.0 to 1000.0	753.256	0.003556	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5448.292	0.01135	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5467.129	0.06792	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5745.480	1.741807	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	5770.058	0.139959	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

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802.11a Chain 2 W56

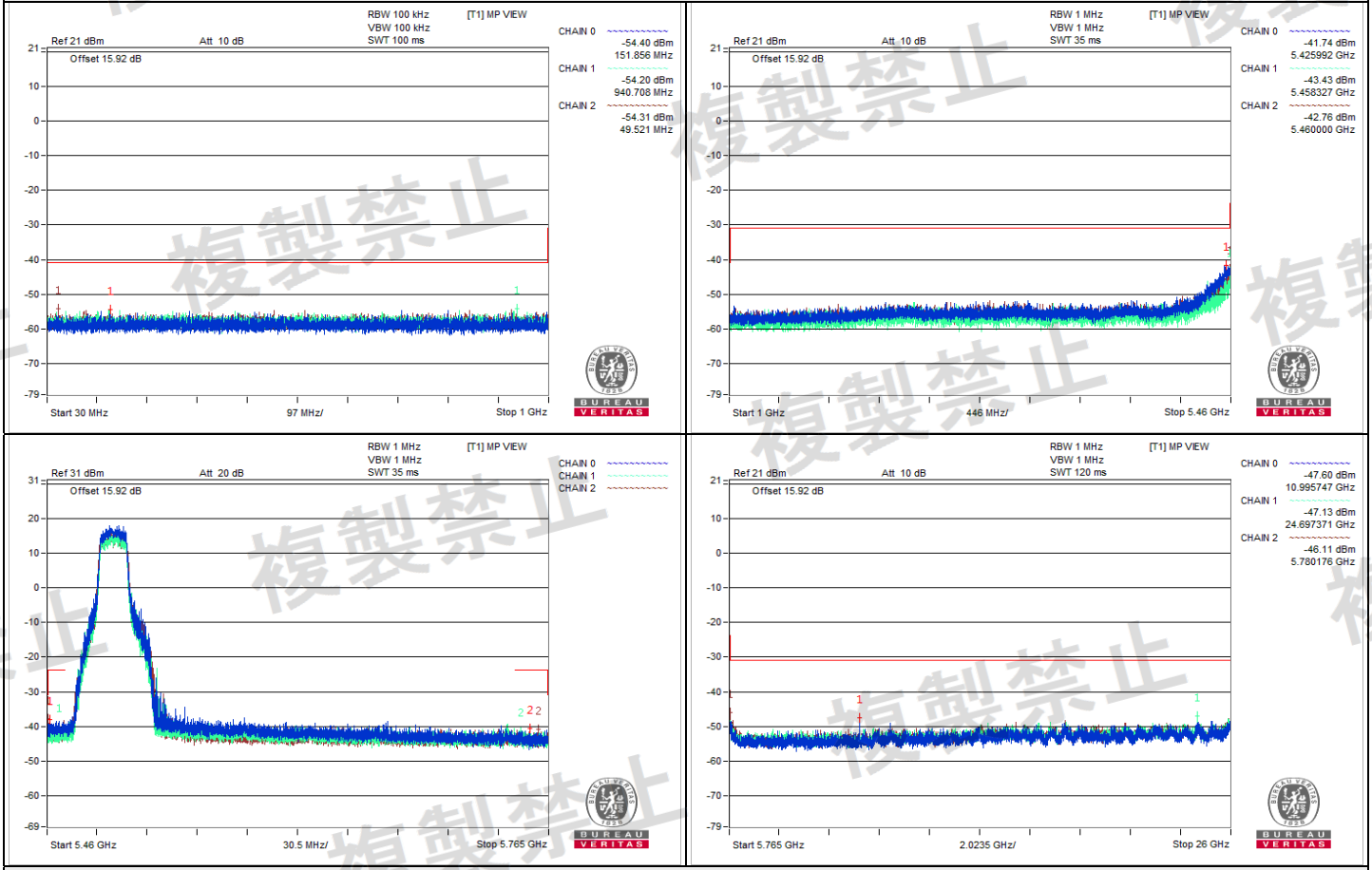
TEST CHANNEL		CH 100 (5500 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	49.521	0.003707	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5460.000	0.052966	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5460.001	0.162181	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5759.586	0.08356	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	5780.176	0.024491	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 120 (5600 MHz)			
V_{normal}	30.0 to 1000.0	167.497	0.003491	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	4550.717	0.006776	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5463.431	0.089125	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5760.730	0.118032	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	5797.881	0.026792	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 144 (5720 MHz)			
V_{normal}	30.0 to 1000.0	70.376	0.003396	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5440.487	0.023335	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5465.871	0.080724	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5745.746	1.183042	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	5767.529	0.21928	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

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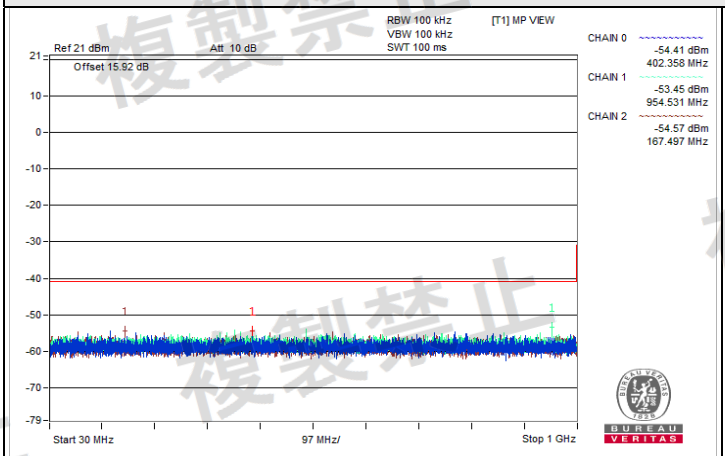
802.11a Graph W56

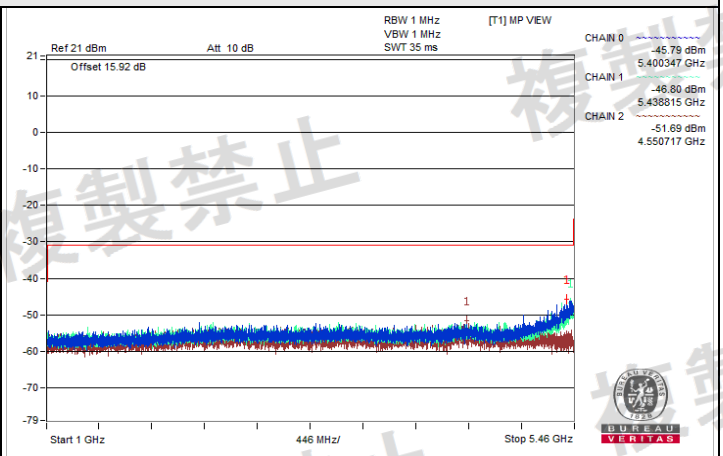
Vnormal

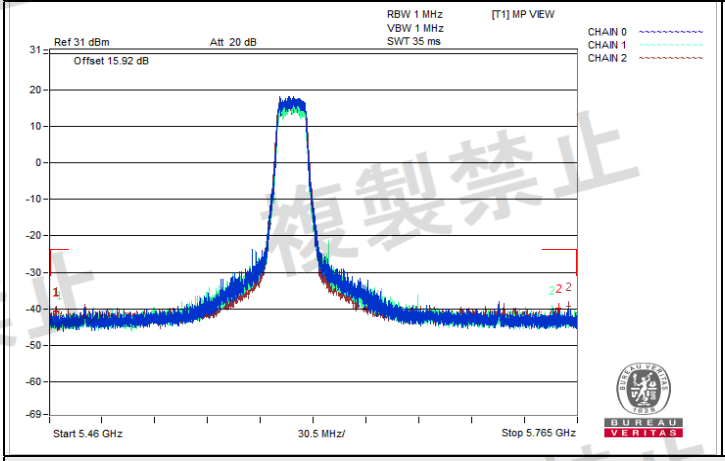


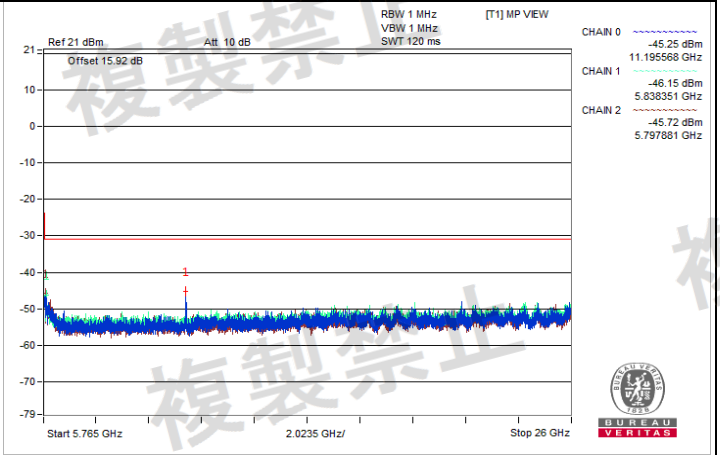
CH 100 (5500 MHz)

Vnormal





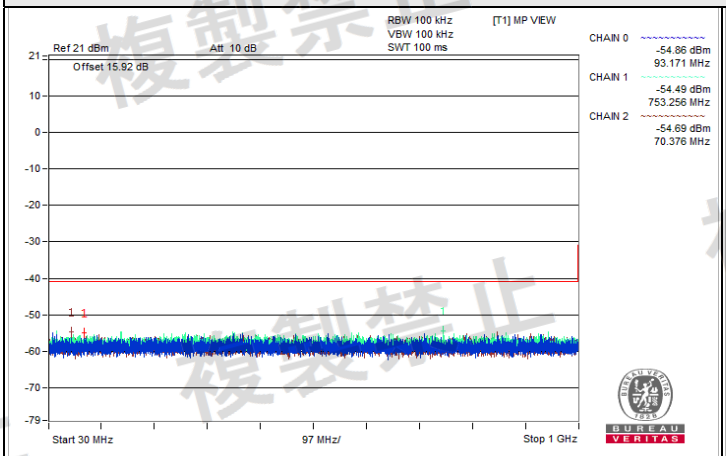


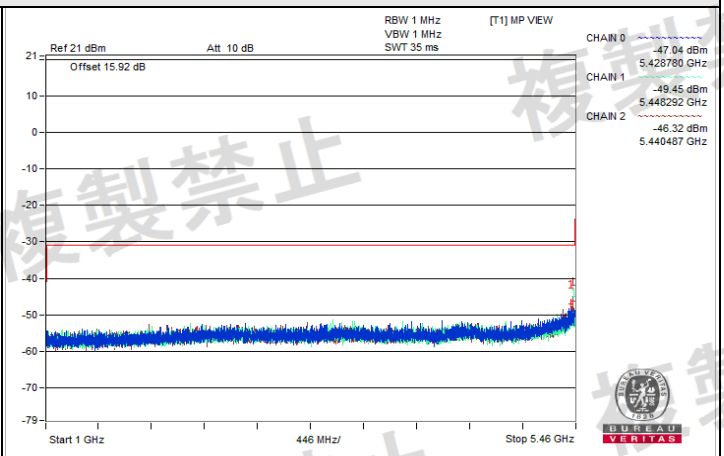


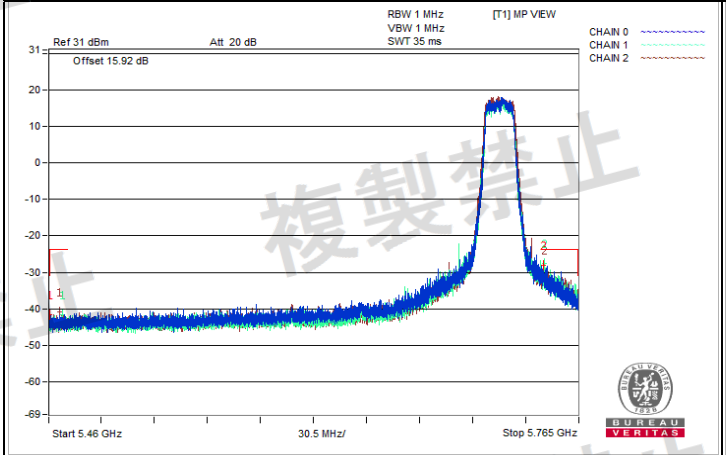
CH 120 (5600 MHz)

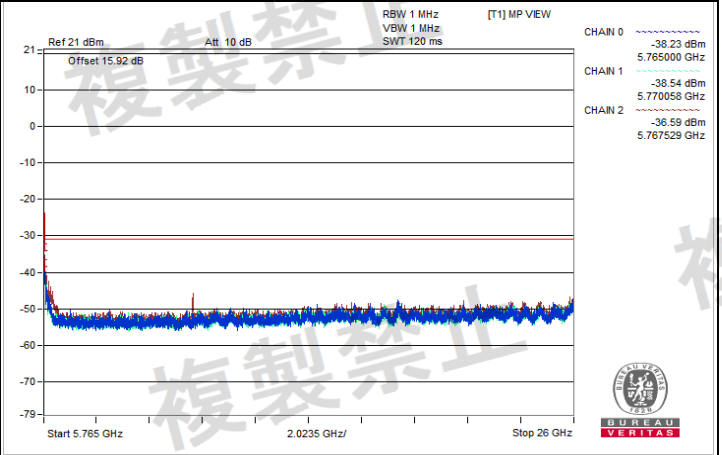
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Vnormal









CH 144 (5720 MHz)

802.11a [Worst result] x [Number of antenna ports] W56

TEST CHANNEL		CH 100 (5500 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.011406	0.25uW/100kHz	PASS
	1000.0 to 5460.0	0.200964	2.5uW/MHz	PASS
	5460.0 to 5470.0	0.486543	12.5uW/MHz	PASS
	5745.0 to 5765.0	0.260688	12.5uW/MHz	PASS
	5765.0 to 26000.0	0.073473	2.5uW/MHz	PASS
TEST CHANNEL		**CH 120 (5600 MHz)**		
V_{normal}	30.0 to 1000.0	0.013557	0.25uW/100kHz	PASS
	1000.0 to 5460.0	0.079089	2.5uW/MHz	PASS
	5460.0 to 5470.0	0.267375	12.5uW/MHz	PASS
	5745.0 to 5765.0	0.354096	12.5uW/MHz	PASS
	5765.0 to 26000.0	0.089562	2.5uW/MHz	PASS
TEST CHANNEL		**CH 144 (5720 MHz)**		
V_{normal}	30.0 to 1000.0	0.010668	0.25uW/100kHz	PASS
	1000.0 to 5460.0	0.070005	2.5uW/MHz	PASS
	5460.0 to 5470.0	0.242172	12.5uW/MHz	PASS
	5745.0 to 5765.0	5.225421	12.5uW/MHz	PASS
	5765.0 to 26000.0	0.657840	2.5uW/MHz	PASS

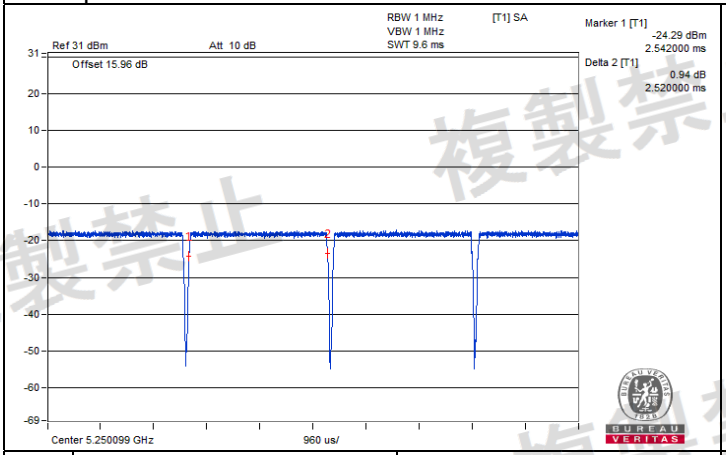
802.11ac (VHT20) Chain 0 W52

TEST CHANNEL		CH 36 (5180 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	854.378	0.004178	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	5109.381	0.028708	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5143.044	0.120226	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.878	0.076913	44.144718 uW/MHz	PASS
	5251.0 to 5260.0	5252.983	0.13122	22.213249 uW/MHz	PASS
	5260.0 to 5266.7	5260.511	0.104232	4.58888 uW/MHz	PASS
	5266.7 to 26000.0	5300.391	0.019364	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 48 (5240 MHz)			
V_{normal}	30.0 to 1000.0	436.672	0.003304	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	4997.547	0.018239	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5148.266	0.116681	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.099	14.750745	265.386451 uW/MHz	PASS(1)
	5251.0 to 5260.0	5251.112	0.542554	32.577908 uW/MHz	PASS(2)
	5260.0 to 5266.7	5262.616	0.246604	2.568717 uW/MHz	PASS
	5266.7 to 26000.0	5290.024	0.023496	0.833333 uW/MHz	PASS

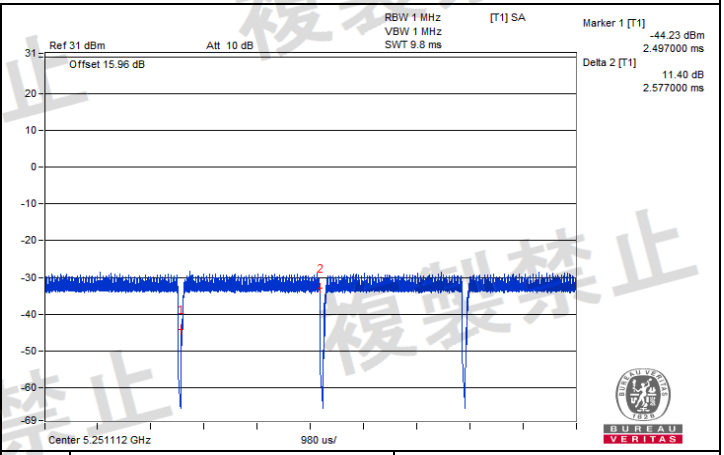
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5250.099MHz	P = 14.750745uW/MHz



2	5251.112MHz	P = 0.542554uW/MHz

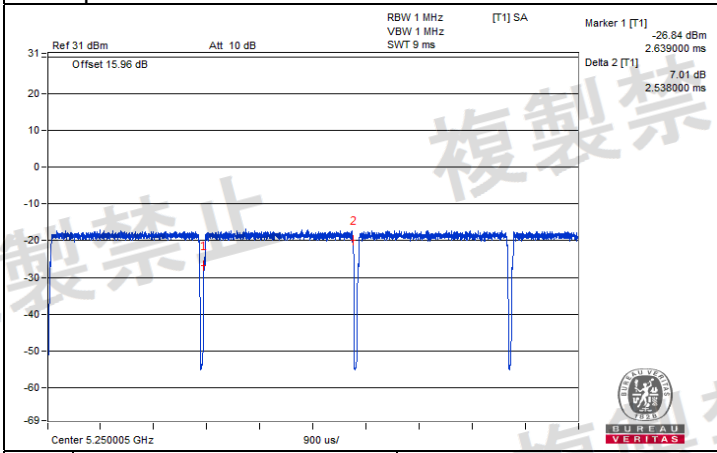
802.11ac (VHT20) Chain 1 W52

TEST CHANNEL		CH 36 (5180 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	396.296	0.003162	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	4940.595	0.018113	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5147.237	0.102802	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.831	0.068865	49.190218 uW/MHz	PASS
	5251.0 to 5260.0	5259.919	0.089536	5.371292 uW/MHz	PASS
	5260.0 to 5266.7	5261.727	0.093756	3.282002 uW/MHz	PASS
	5266.7 to 26000.0	25984.450	0.014928	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 48 (5240 MHz)			
V_{normal}	30.0 to 1000.0	711.182	0.0052	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	4874.323	0.017298	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5144.244	0.098628	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.005	13.535019	329.517699 uW/MHz	PASS(1)
	5251.0 to 5260.0	5251.000	14.554591	33.333333 uW/MHz	PASS
	5260.0 to 5266.7	5260.652	0.184502	4.413951 uW/MHz	PASS
	5266.7 to 26000.0	5305.574	0.016406	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5250.005MHz	P = 13.535019uW/MHz			

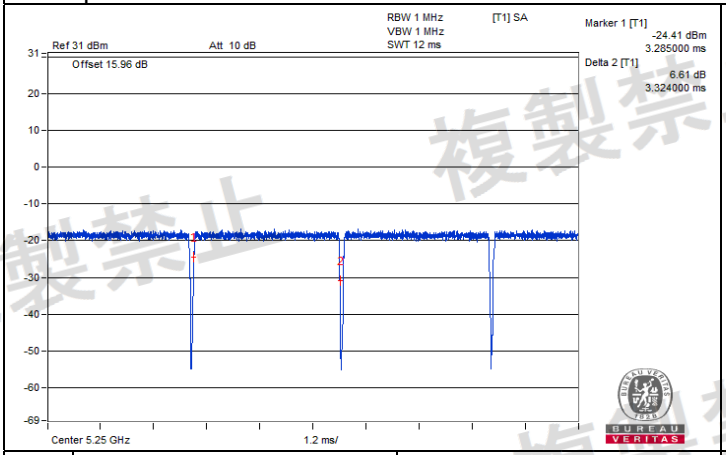
802.11ac (VHT20) Chain 2 W52

TEST CHANNEL		CH 36 (5180 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	955.137	0.003162	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	5140.446	0.023823	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5145.553	0.107895	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.738	0.070307	60.936674 uW/MHz	PASS
	5251.0 to 5260.0	5252.000	0.08414	27.163758 uW/MHz	PASS
	5260.0 to 5266.7	5265.343	0.073282	1.211339 uW/MHz	PASS
	5266.7 to 26000.0	5282.249	0.014388	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 48 (5240 MHz)			
V_{normal}	30.0 to 1000.0	820.307	0.003228	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	5136.822	0.015101	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5148.063	0.077625	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.000	13.752798	333.333334 uW/MHz	PASS(1)
	5251.0 to 5260.0	5251.050	0.370713	32.993949 uW/MHz	PASS(2)
	5260.0 to 5266.7	5260.153	0.174582	5.064809 uW/MHz	PASS
	5266.7 to 26000.0	5279.658	0.025468	0.833333 uW/MHz	PASS

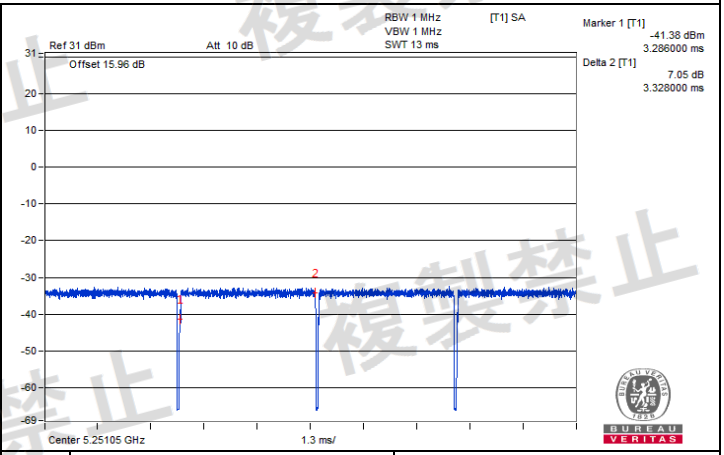
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



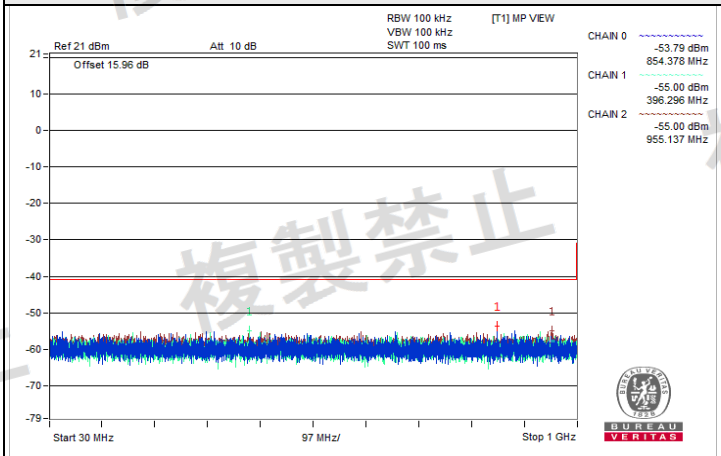
1	5250.000MHz	P = 13.752798uW/MHz

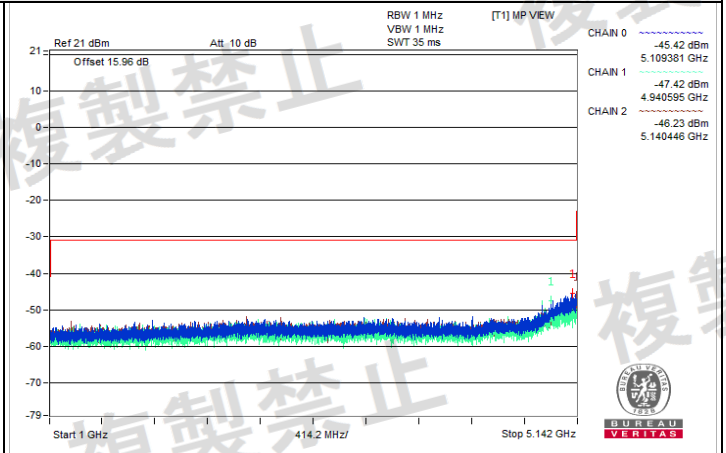


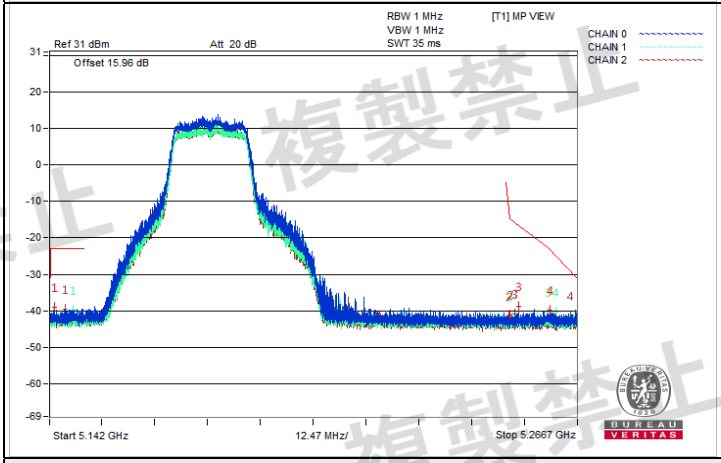
2	5251.050MHz	P = 0.370713uW/MHz

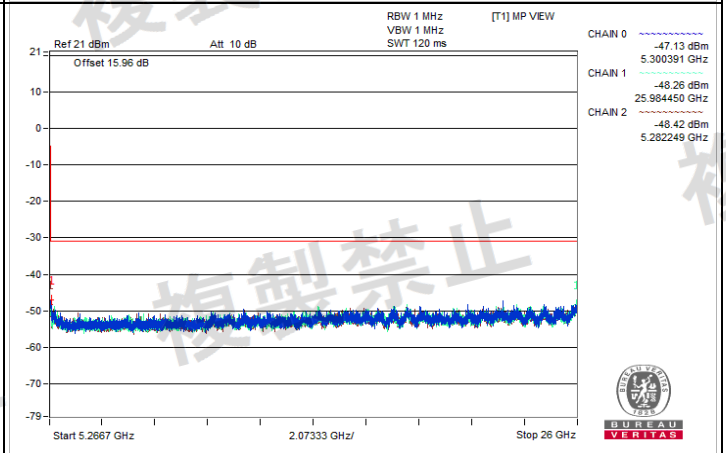
802.11ac (VHT20) Graph W52

Vnormal



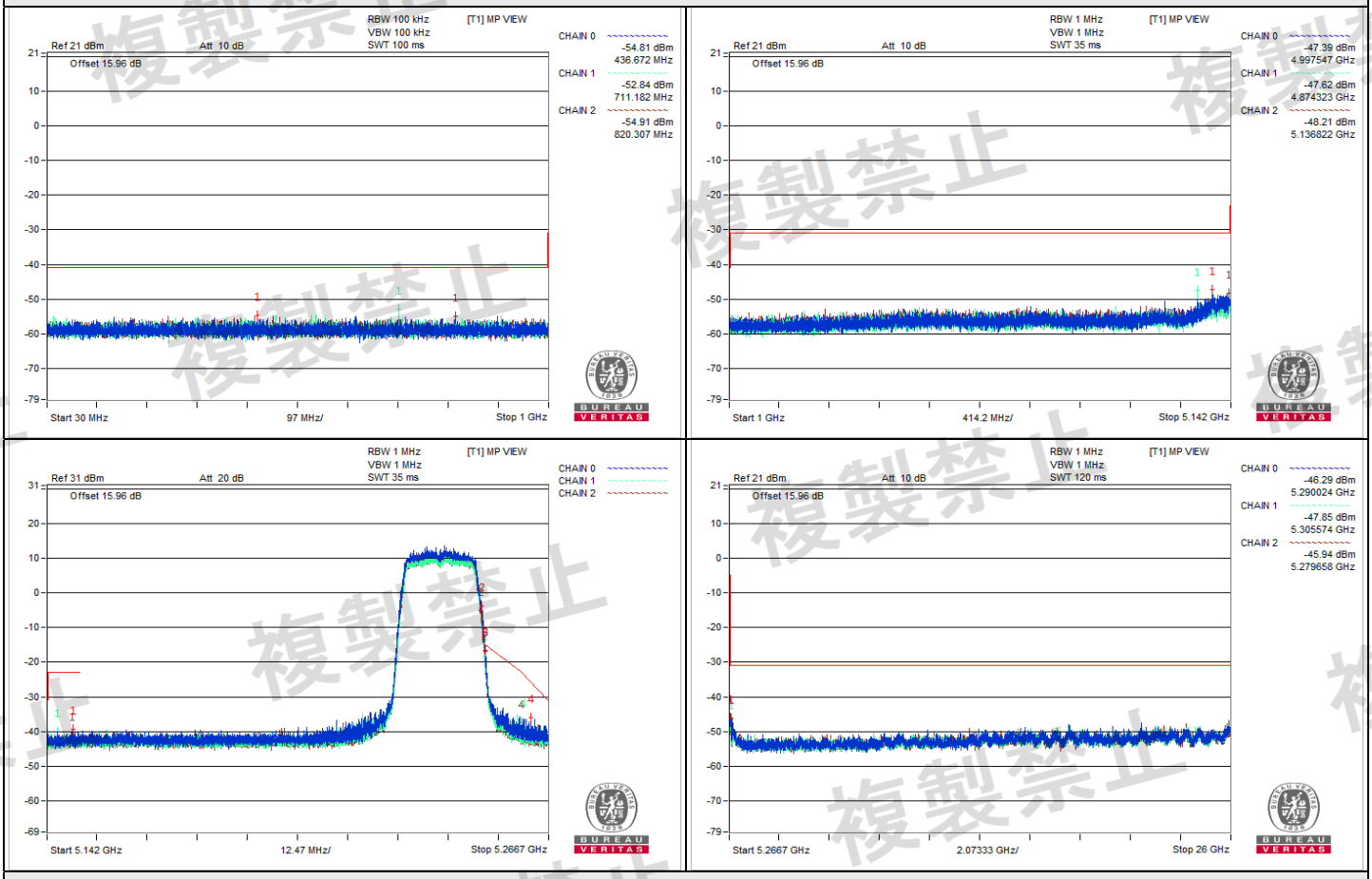






CH 36 (5180 MHz)

Vnormal



CH 48 (5240 MHz)

802.11ac (VHT20) [Worst result] x [Number of antenna ports] W52

TEST CHANNEL		CH 36 (5180 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.012534	0.25uW/100kHz	PASS
	1000.0 to 5142.0	0.086124	2.5uW/MHz	PASS
	5142.0 to 5150.0	0.360678	15uW/MHz	PASS
	5250.0 to 5251.0	0.230739	132.43415uW/MHz	PASS
	5251.0 to 5260.0	0.393660	66.63975uW/MHz	PASS
	5260.0 to 5266.7	0.312696	13.76664uW/MHz	PASS
	5266.7 to 26000.0	0.058092	2.5uW/MHz	PASS
TEST CHANNEL		CH 48 (5240 MHz)		
V_{normal}	30.0 to 1000.0	0.015600	0.25uW/100kHz	PASS
	1000.0 to 5142.0	0.054717	2.5uW/MHz	PASS
	5142.0 to 5150.0	0.350043	15uW/MHz	PASS
	5250.0 to 5251.0	44.252235	796.15935uW/MHz	PASS
	5251.0 to 5260.0	43.663773	100uW/MHz	PASS
	5260.0 to 5266.7	0.739812	7.70615uW/MHz	PASS
	5266.7 to 26000.0	0.076404	2.5uW/MHz	PASS

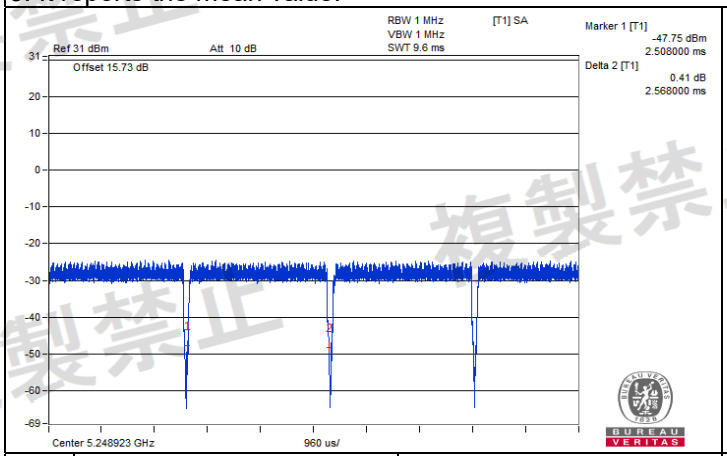
802.11ac (VHT20) Chain 0 W53

TEST CHANNEL		CH 52 (5260 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	559.498	0.002825	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	5232.241	0.043451	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5239.806	0.267301	5.007892 uW/MHz	PASS
	5240.0 to 5249.0	5248.923	1.457951	32.812121 uW/MHz	PASS(1)
	5249.0 to 5250.0	5250.000	32.728346	333.333334 uW/MHz	PASS(2)
	5350.0 to 26000.0	5360.325	0.018707	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 64 (5320 MHz)			
V_{normal}	30.0 to 1000.0	904.212	0.008072	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	5175.092	0.016596	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5235.867	0.116145	1.69089 uW/MHz	PASS
	5240.0 to 5249.0	5244.153	0.096828	12.360451 uW/MHz	PASS
	5249.0 to 5250.0	5249.535	0.073961	114.255929 uW/MHz	PASS
	5350.0 to 26000.0	5362.906	0.029444	0.833333 uW/MHz	PASS

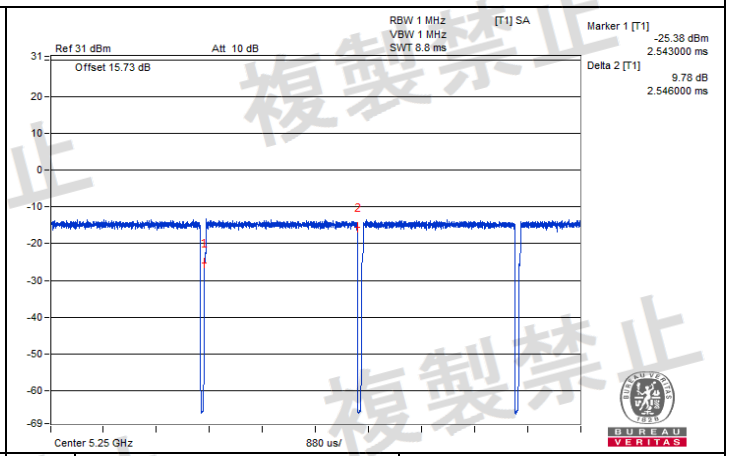
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5248.923MHz	P = 1.457951uW/MHz



2	5250.000MHz	P = 32.728346uW/MHz

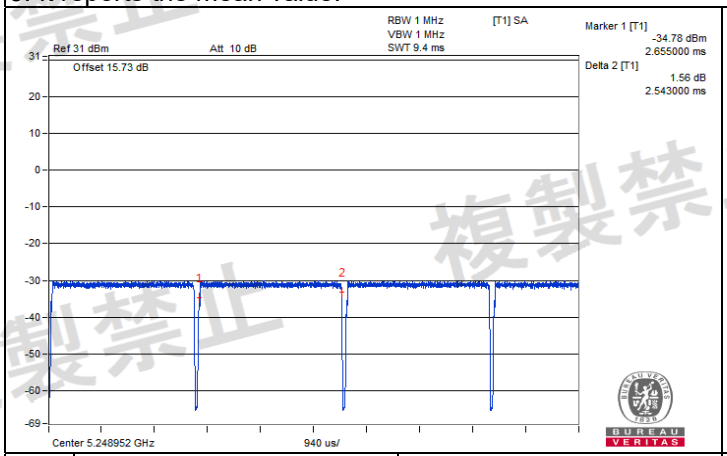
802.11ac (VHT20) Chain 1 W53

TEST CHANNEL		CH 52 (5260 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	562.045	0.003112	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	5225.362	0.069663	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5236.188	0.179887	1.847322 uW/MHz	PASS
	5240.0 to 5249.0	5248.952	0.755442	33.007458 uW/MHz	PASS(1)
	5249.0 to 5250.0	5249.958	17.148036	302.606844 uW/MHz	PASS(2)
	5350.0 to 26000.0	21764.168	0.014454	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 64 (5320 MHz)			
V_{normal}	30.0 to 1000.0	964.352	0.003243	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	4873.998	0.030832	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5234.729	0.078163	1.23562 uW/MHz	PASS
	5240.0 to 5249.0	5248.412	0.106905	29.553715 uW/MHz	PASS
	5249.0 to 5250.0	5249.112	0.071121	43.139861 uW/MHz	PASS
	5350.0 to 26000.0	5559.081	0.026669	0.833333 uW/MHz	PASS

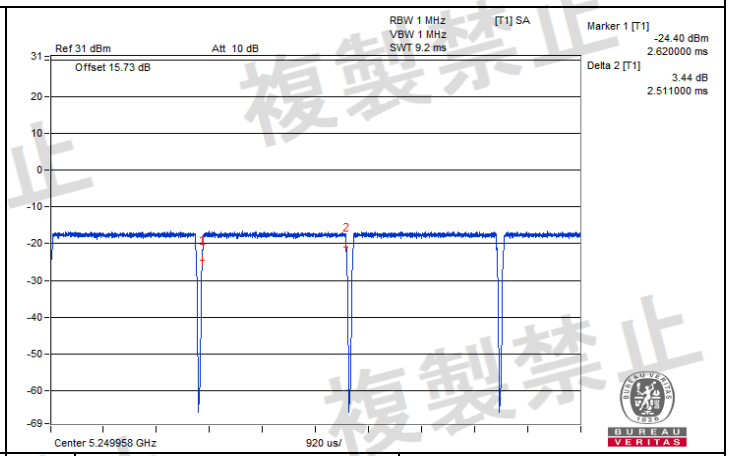
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5248.952MHz	P = 0.755442uW/MHz



2	5249.958MHz	P = 17.148036uW/MHz

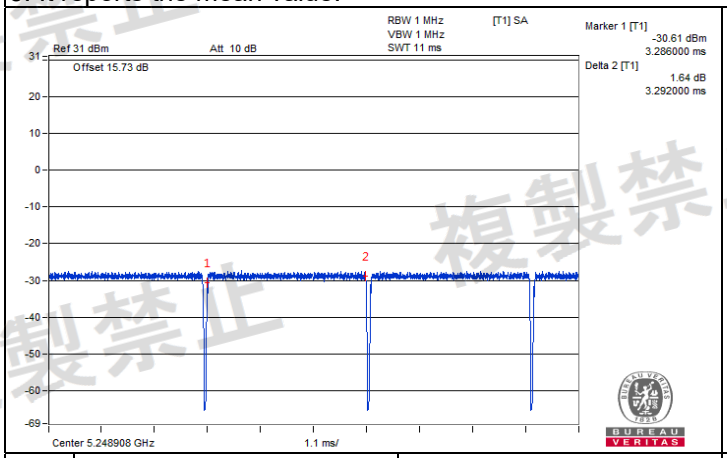
802.11ac (VHT20) Chain 2 W53

TEST CHANNEL		CH 52 (5260 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	799.695	0.003412	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	5220.600	0.037411	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5237.311	0.325087	2.517546 uW/MHz	PASS
	5240.0 to 5249.0	5248.908	1.291642	32.711538 uW/MHz	PASS(1)
	5249.0 to 5250.0	5249.900	19.763473	264.776079 uW/MHz	PASS(2)
	5350.0 to 26000.0	5378.393	0.033113	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 64 (5320 MHz)			
V_{normal}	30.0 to 1000.0	887.722	0.003606	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	5199.962	0.025645	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5237.136	0.106905	2.398988 uW/MHz	PASS
	5240.0 to 5249.0	5248.223	0.086896	28.432306 uW/MHz	PASS
	5249.0 to 5250.0	5249.710	0.071285	170.953795 uW/MHz	PASS
	5350.0 to 26000.0	5440.343	0.043053	0.833333 uW/MHz	PASS

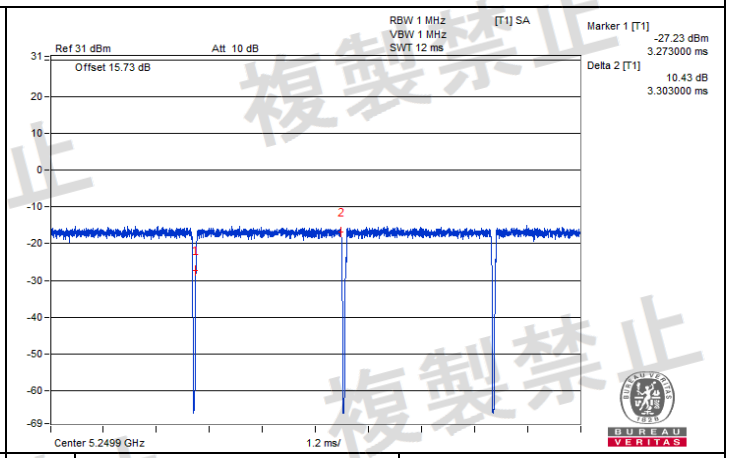
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



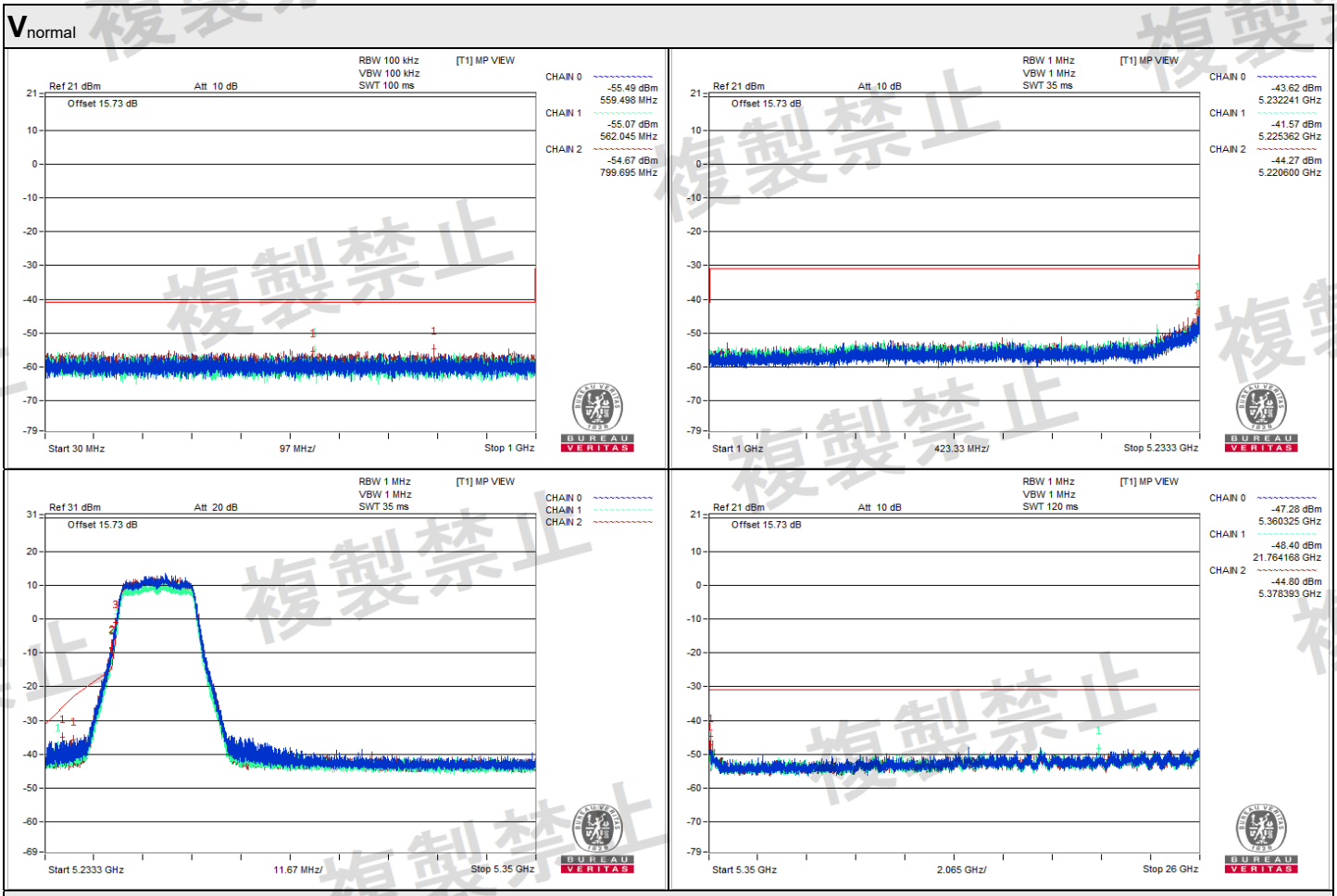
1	5248.908MHz	P = 1.291642uW/MHz



2	5249.900MHz	P = 19.763473uW/MHz

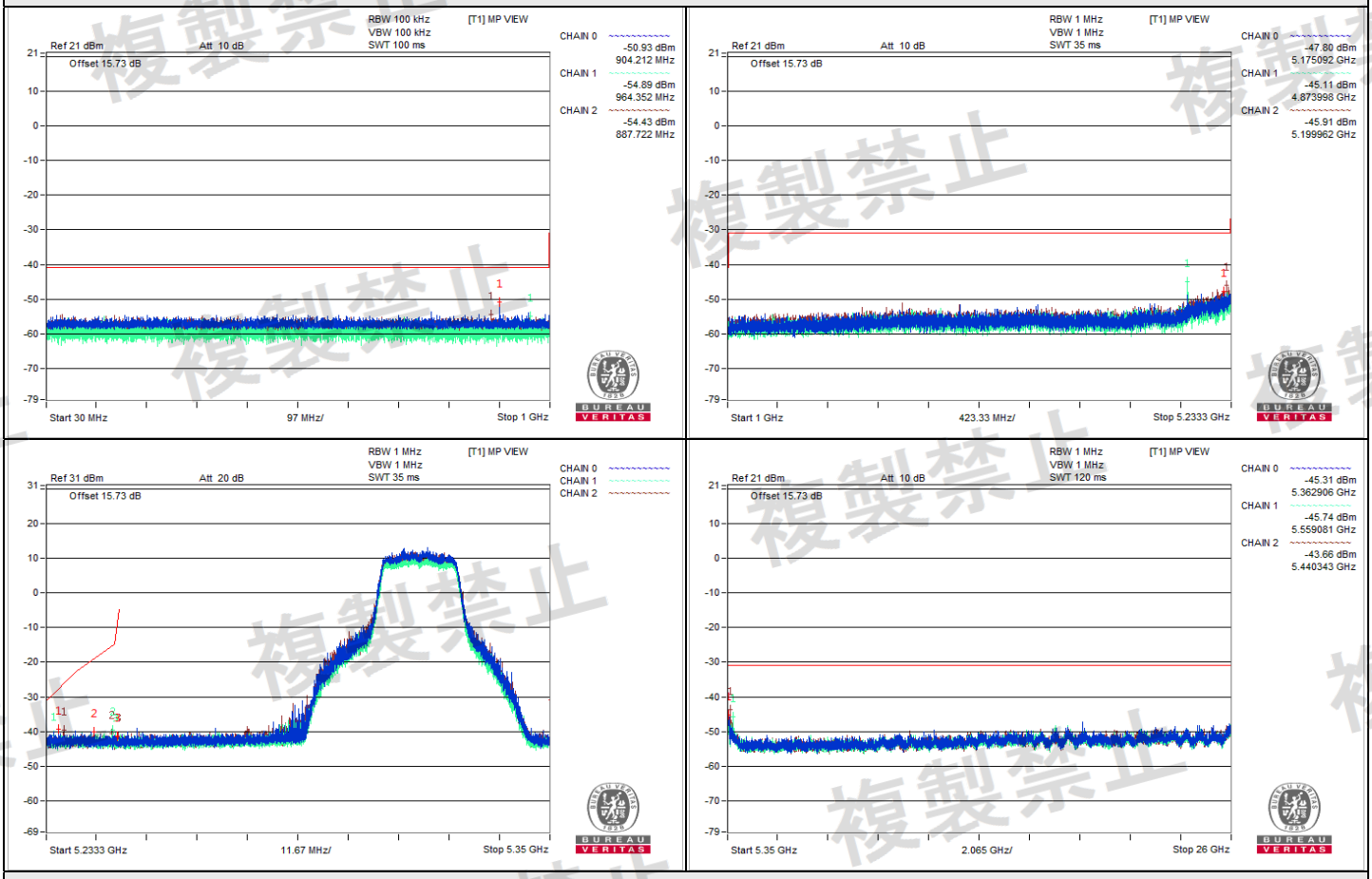
802.11ac (VHT20) Graph W53

Vnormal



CH 52 (5260 MHz)

Vnormal



CH 64 (5320 MHz)

802.11ac (VHT20) [Worst result] x [Number of antenna ports] W53

TEST CHANNEL		CH 52 (5260 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.010236	0.25uW/100kHz	PASS
	1000.0 to 5233.3	0.208989	2.5uW/MHz	PASS
	5233.3 to 5240.0	0.975261	7.55264uW/MHz	PASS
	5240.0 to 5249.0	4.373853	98.43636uW/MHz	PASS
	5249.0 to 5250.0	98.185038	1000uW/MHz	PASS
	5350.0 to 26000.0	0.099339	2.5uW/MHz	PASS
TEST CHANNEL		CH 64 (5320 MHz)		
V_{normal}	30.0 to 1000.0	0.024216	0.25uW/100kHz	PASS
	1000.0 to 5233.3	0.092496	2.5uW/MHz	PASS
	5233.3 to 5240.0	0.348435	5.07267uW/MHz	PASS
	5240.0 to 5249.0	0.320715	88.66115uW/MHz	PASS
	5249.0 to 5250.0	0.221883	342.76779uW/MHz	PASS
	5350.0 to 26000.0	0.129159	2.5uW/MHz	PASS

802.11ac (VHT20) Chain 0 W56

TEST CHANNEL		CH 100 (5500 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	981.933	0.003475	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5453.867	0.102329	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5463.088	0.175792	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5746.928	0.096828	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	19322.450	0.019498	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 120 (5600 MHz)			
V_{normal}	30.0 to 1000.0	945.073	0.003162	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5432.682	0.028708	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5462.668	0.093111	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5753.867	0.097051	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	11198.097	0.02884	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 144 (5720 MHz)			
V_{normal}	30.0 to 1000.0	931.736	0.003311	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5460.000	0.019907	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5469.607	0.082794	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5745.480	0.92683	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	5765.000	0.198609	0.833333 uW/MHz	PASS

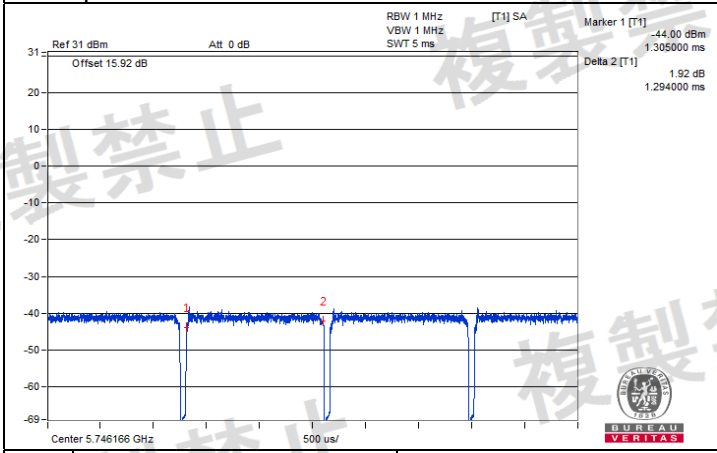
NOTE: 1. The spectrum plots are attached on the following pages.

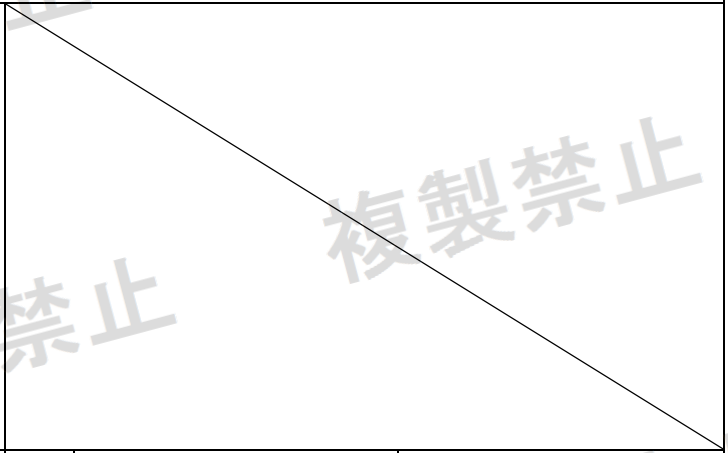
802.11ac (VHT20) Chain 1 W56

TEST CHANNEL		CH 100 (5500 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	129.182	0.003581	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5456.097	0.060395	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5466.366	0.13366	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5748.453	0.090157	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	25802.708	0.01875	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 120 (5600 MHz)			
V_{normal}	30.0 to 1000.0	930.281	0.003243	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5432.682	0.020893	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5465.947	0.075336	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5756.650	0.104954	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	5838.351	0.029512	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 144 (5720 MHz)			
V_{normal}	30.0 to 1000.0	752.286	0.003228	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5451.080	0.015922	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5463.202	0.074817	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5746.166	0.074156	4.166667 uW/MHz	PASS(1)
	5765.0 to 26000.0	5770.058	0.207014	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point. 2. Regarding the all data value, it transforms the “dBm” value into “uW” value. 3. It adds the all values and calculates a grand total. Define a grand total as “P”. 4. It divides “P” by sample data point (ex.501) and calculates the mean value. 5. It reports the mean value.





1	5746.166MHz	P = 0.074156uW/MHz			

802.11ac (VHT20) Chain 2 W56

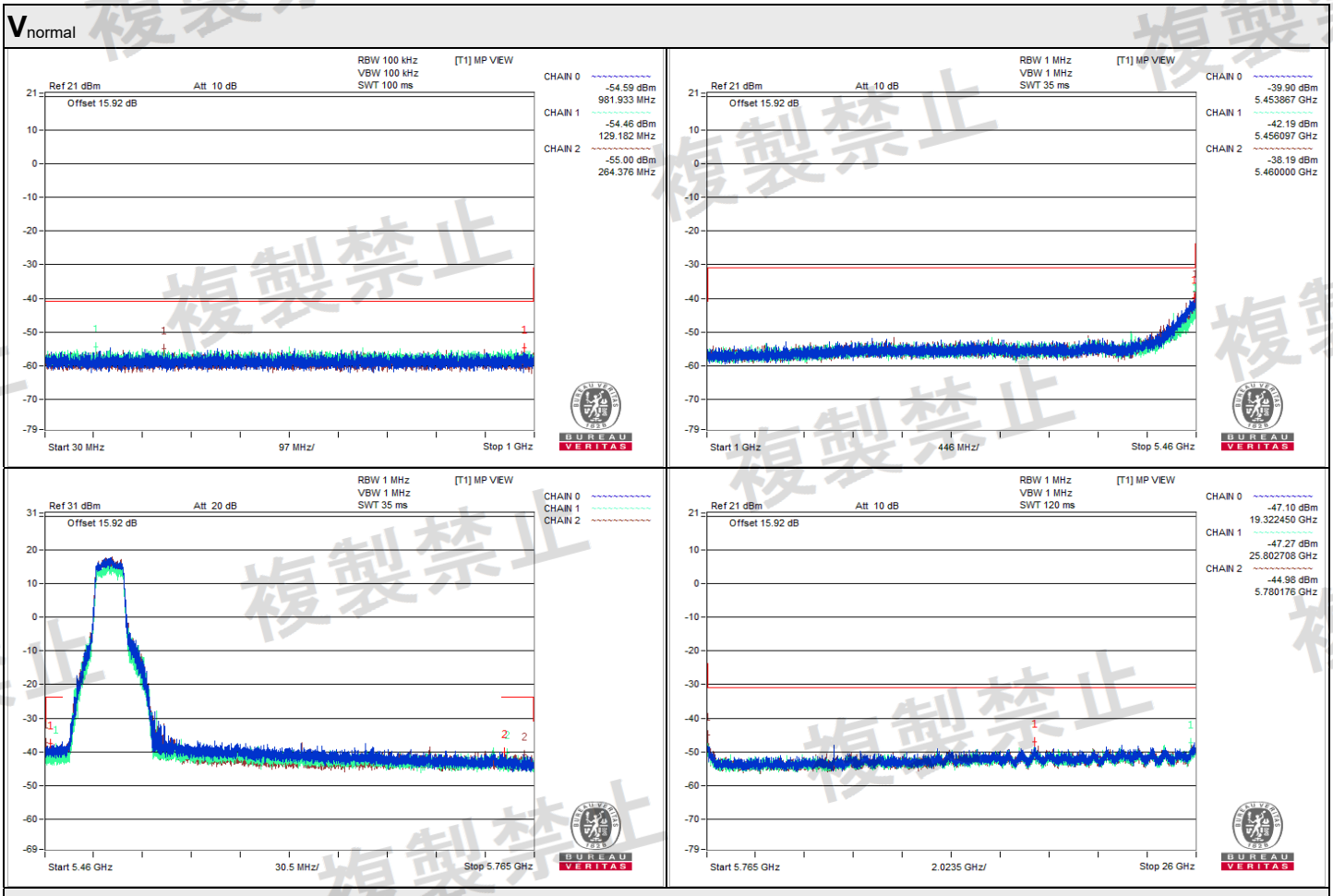
TEST CHANNEL		CH 100 (5500 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	264.376	0.003162	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5460.000	0.151705	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5460.114	0.18578	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5759.090	0.08091	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	5780.176	0.031769	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 120 (5600 MHz)			
V_{normal}	30.0 to 1000.0	476.563	0.003837	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5434.355	0.044875	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5465.795	0.109144	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5752.380	0.11695	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	5797.881	0.052845	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 144 (5720 MHz)			
V_{normal}	30.0 to 1000.0	641.706	0.003236	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5440.487	0.019143	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5467.968	0.100925	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5745.136	0.963829	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	5770.058	0.118304	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

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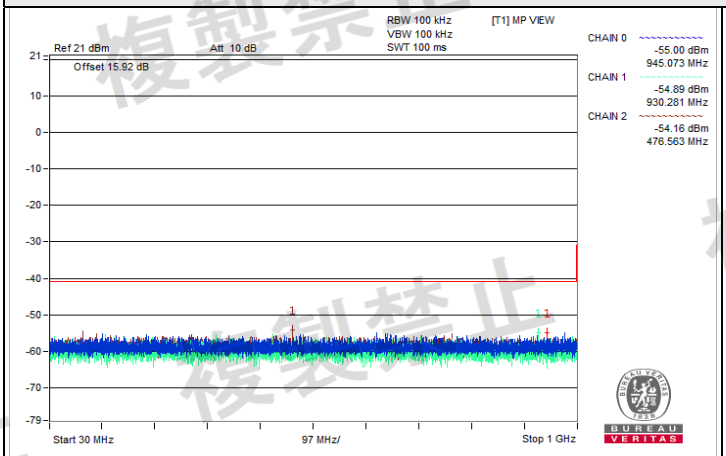
802.11ac (VHT20) Graph W56

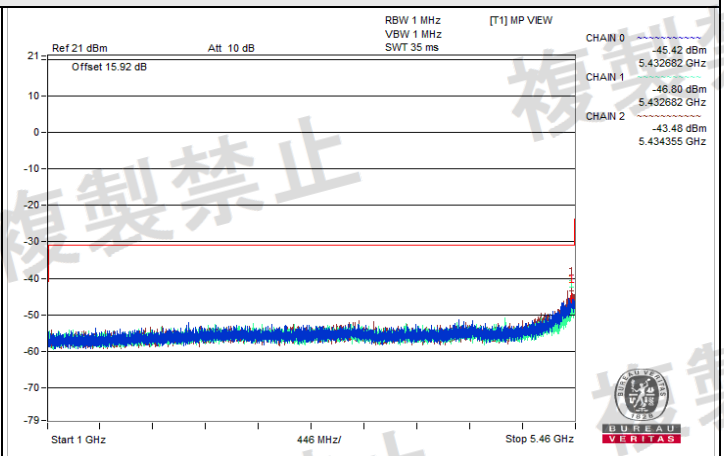
Vnormal

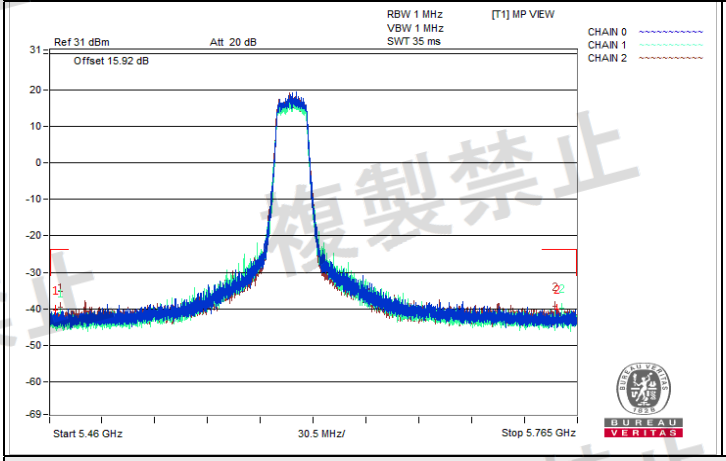


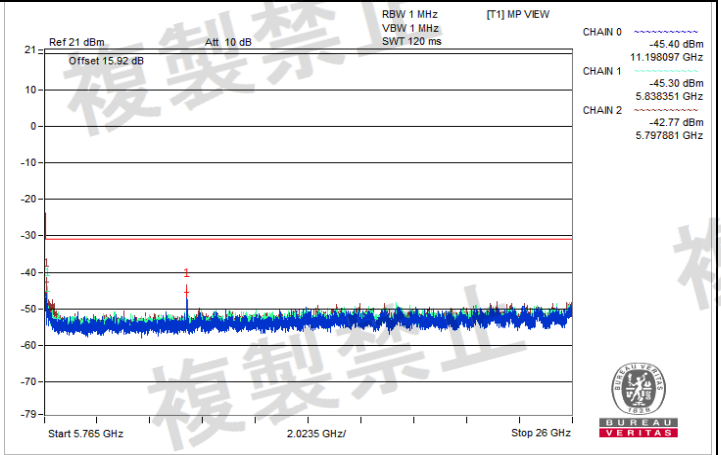
CH 100 (5500 MHz)

Vnormal



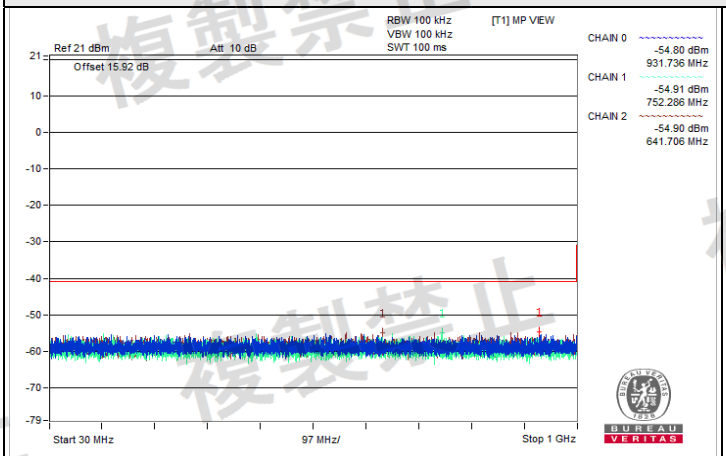


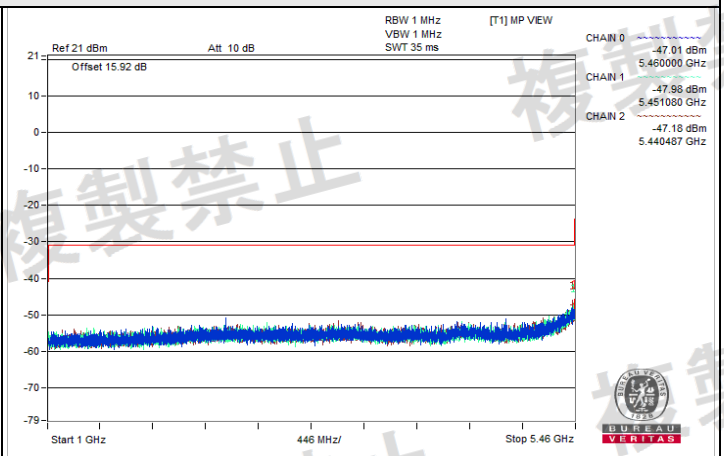


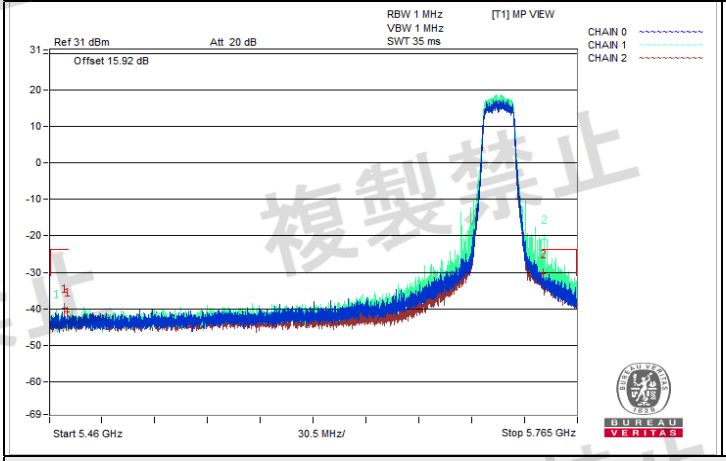


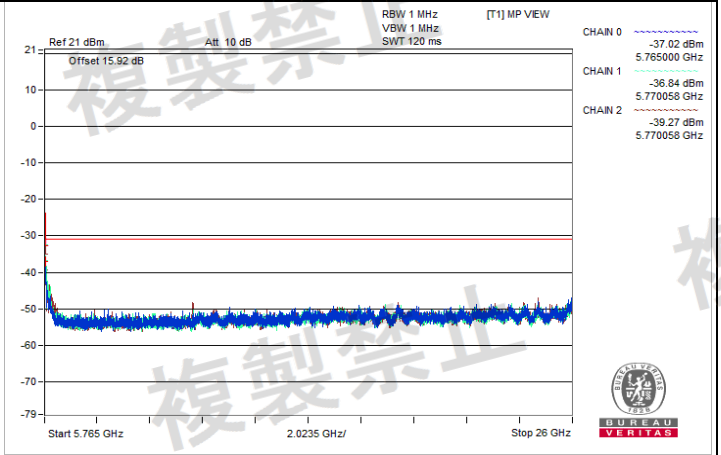
CH 120 (5600 MHz)

Vnormal









CH 144 (5720 MHz)

802.11ac (VHT20) [Worst result] x [Number of antenna ports] W56

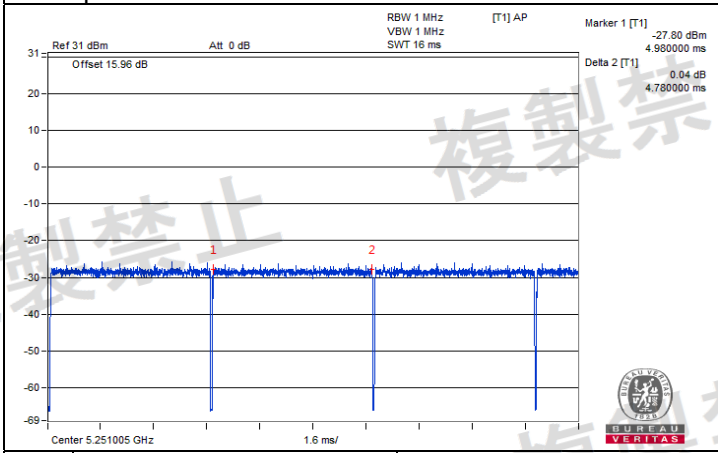
TEST CHANNEL		CH 100 (5500 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.010743	0.25uW/100kHz	PASS
	1000.0 to 5460.0	0.455115	2.5uW/MHz	PASS
	5460.0 to 5470.0	0.557340	12.5uW/MHz	PASS
	5745.0 to 5765.0	0.290484	12.5uW/MHz	PASS
	5765.0 to 26000.0	0.095307	2.5uW/MHz	PASS
TEST CHANNEL		CH 120 (5600 MHz)		
V_{normal}	30.0 to 1000.0	0.011511	0.25uW/100kHz	PASS
	1000.0 to 5460.0	0.134625	2.5uW/MHz	PASS
	5460.0 to 5470.0	0.327432	12.5uW/MHz	PASS
	5745.0 to 5765.0	0.350850	12.5uW/MHz	PASS
	5765.0 to 26000.0	0.158535	2.5uW/MHz	PASS
TEST CHANNEL		CH 144 (5720 MHz)		
V_{normal}	30.0 to 1000.0	0.009933	0.25uW/100kHz	PASS
	1000.0 to 5460.0	0.059721	2.5uW/MHz	PASS
	5460.0 to 5470.0	0.302775	12.5uW/MHz	PASS
	5745.0 to 5765.0	2.891487	12.5uW/MHz	PASS
	5765.0 to 26000.0	0.621042	2.5uW/MHz	PASS

802.11ac (VHT40) Chain 0 W52

TEST CHANNEL		CH 38 (5190 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	517.182	0.003639	0.083333 uW/100kHz	PASS
	1000.0 to 5141.6	5141.600	0.020606	0.833333 uW/MHz	PASS
	5141.6 to 5150.0	5142.078	0.11324	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.783	0.072111	27.469373 uW/MHz	PASS
	5251.0 to 5270.0	5251.570	0.114815	15.770619 uW/MHz	PASS
	5270.0 to 5278.4	5270.038	0.086896	2.627739 uW/MHz	PASS
	5278.4 to 26000.0	5304.302	0.016634	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 46 (5230 MHz)			
V_{normal}	30.0 to 1000.0	549.071	0.004217	0.083333 uW/100kHz	PASS
	1000.0 to 5141.6	5073.263	0.015996	0.833333 uW/MHz	PASS
	5141.6 to 5150.0	5146.063	0.137721	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.031	60.117374	155.184646 uW/MHz	PASS
	5251.0 to 5270.0	5251.005	1.386652	16.658589 uW/MHz	PASS(1)
	5270.0 to 5278.4	5275.527	0.129718	1.236468 uW/MHz	PASS
	5278.4 to 26000.0	5317.253	0.020137	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point. 2. Regarding the all data value, it transforms the “dBm” value into “uW” value. 3. It adds the all values and calculates a grand total. Define a grand total as “P”. 4. It divides “P” by sample data point (ex.501) and calculates the mean value. 5. It reports the mean value.



1	5251.005MHz	P = 1.386652uW/MHz			

802.11ac (VHT40) Chain 1 W52

TEST CHANNEL		CH 38 (5190 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	729.491	0.003698	0.083333 uW/100kHz	PASS
	1000.0 to 5141.6	4874.466	0.025177	0.833333 uW/MHz	PASS
	5141.6 to 5150.0	5146.456	0.097949	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.116	0.124738	127.599435 uW/MHz	PASS
	5251.0 to 5270.0	5268.328	0.084918	3.106338 uW/MHz	PASS
	5270.0 to 5278.4	5273.783	0.082604	1.571109 uW/MHz	PASS
	5278.4 to 26000.0	25976.688	0.015704	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 46 (5230 MHz)			
V_{normal}	30.0 to 1000.0	834.130	0.004217	0.083333 uW/100kHz	PASS
	1000.0 to 5141.6	4874.466	0.021878	0.833333 uW/MHz	PASS
	5141.6 to 5150.0	5146.883	0.09977	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.116	41.209752	127.599435 uW/MHz	PASS
	5251.0 to 5270.0	5251.211	6.807694	16.329186 uW/MHz	PASS
	5270.0 to 5278.4	5276.023	0.086696	1.155043 uW/MHz	PASS
	5278.4 to 26000.0	5306.892	0.016866	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

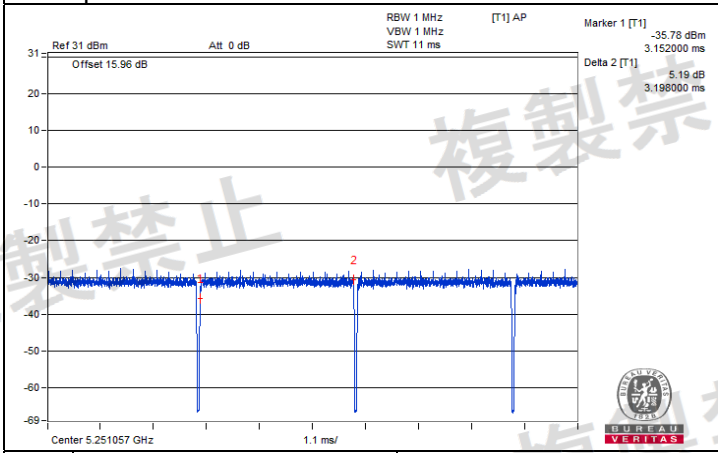
複製禁止

802.11ac (VHT40) Chain 2 W52

TEST CHANNEL		CH 38 (5190 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	668.866	0.003548	0.083333 uW/100kHz	PASS
	1000.0 to 5141.6	5070.157	0.019187	0.833333 uW/MHz	PASS
	5141.6 to 5150.0	5149.756	0.128233	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.886	0.079433	21.669493 uW/MHz	PASS
	5251.0 to 5270.0	5252.784	0.087498	14.019514 uW/MHz	PASS
	5270.0 to 5278.4	5273.372	0.088308	1.662344 uW/MHz	PASS
	5278.4 to 26000.0	25287.695	0.015524	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 46 (5230 MHz)			
V_{normal}	30.0 to 1000.0	901.302	0.015524	0.083333 uW/100kHz	PASS
	1000.0 to 5141.6	5110.538	0.019409	0.833333 uW/MHz	PASS
	5141.6 to 5150.0	5149.175	0.100925	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.116	57.94287	127.599435 uW/MHz	PASS
	5251.0 to 5270.0	5251.057	0.740919	16.574817 uW/MHz	PASS(1)
	5270.0 to 5278.4	5270.380	0.106905	2.507166 uW/MHz	PASS
	5278.4 to 26000.0	5293.941	0.015959	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

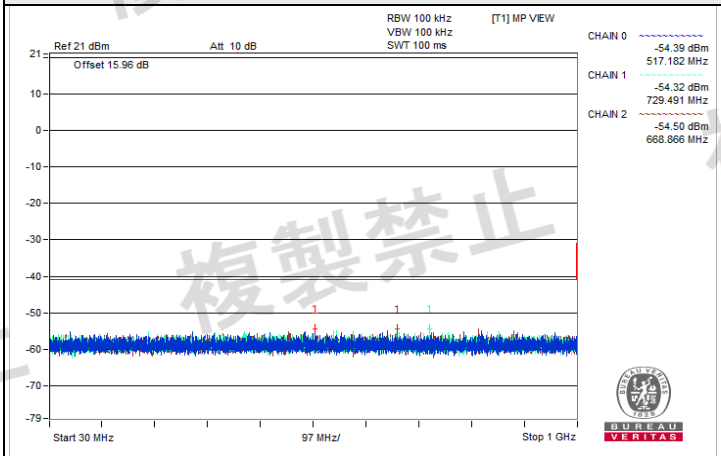
Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point. 2. Regarding the all data value, it transforms the “dBm” value into “uW” value. 3. It adds the all values and calculates a grand total. Define a grand total as “P”. 4. It divides “P” by sample data point (ex.501) and calculates the mean value. 5. It reports the mean value.

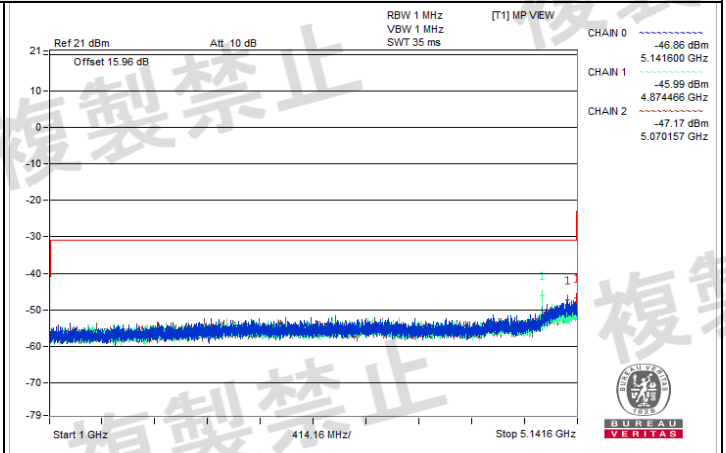


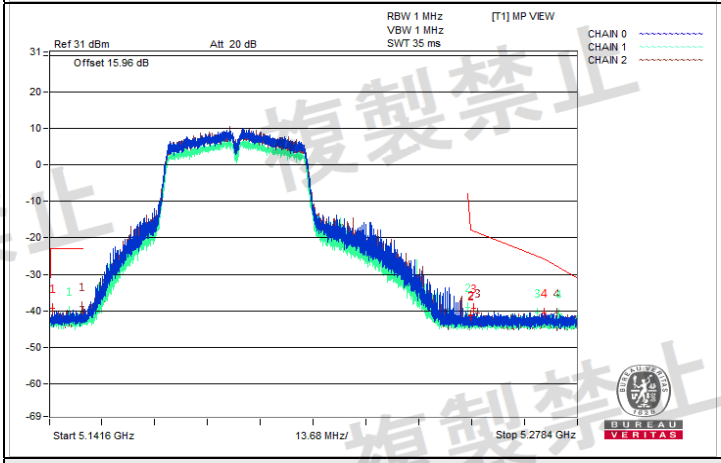
1	5251.057MHz	P = 0.740919uW/MHz			

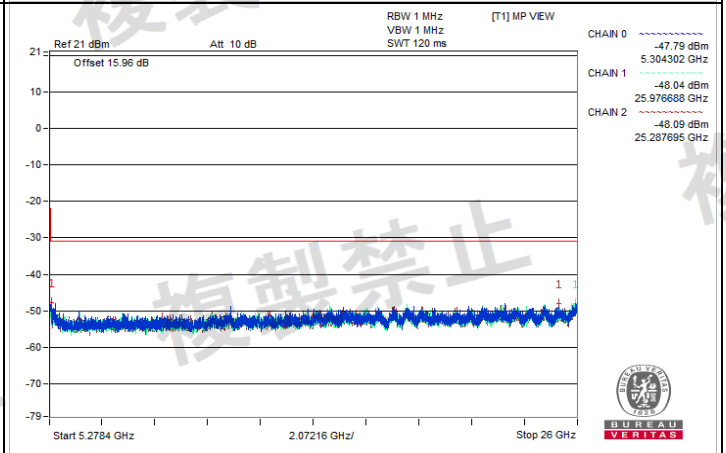
802.11ac (VHT40) Graph W52

Vnormal



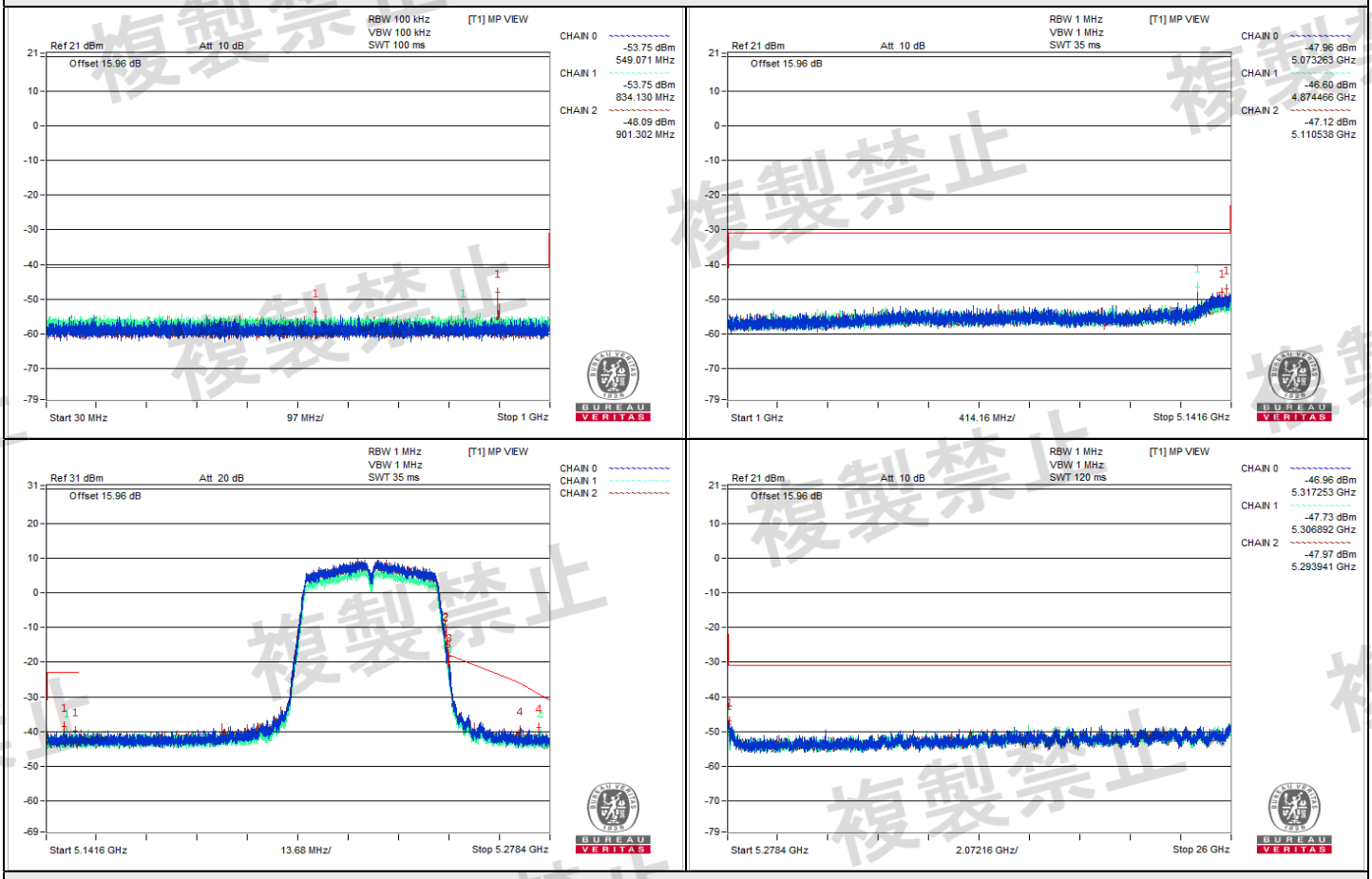






CH 38 (5190 MHz)

Vnormal



CH 46 (5230 MHz)

802.11ac (VHT40) [Worst result] x [Number of antenna ports] W52

TEST CHANNEL		CH 38 (5190 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.011094	0.25uW/100kHz	PASS
	1000.0 to 5141.6	0.075531	2.5uW/MHz	PASS
	5141.6 to 5150.0	0.384699	15uW/MHz	PASS
	5250.0 to 5251.0	0.374214	382.79831uW/MHz	PASS
	5251.0 to 5270.0	0.344445	47.31186uW/MHz	PASS
	5270.0 to 5278.4	0.264924	4.98703uW/MHz	PASS
	5278.4 to 26000.0	0.049902	2.5uW/MHz	PASS
TEST CHANNEL		CH 46 (5230 MHz)		
V_{normal}	30.0 to 1000.0	0.046572	0.25uW/100kHz	PASS
	1000.0 to 5141.6	0.065634	2.5uW/MHz	PASS
	5141.6 to 5150.0	0.413163	15uW/MHz	PASS
	5250.0 to 5251.0	180.352122	465.55394uW/MHz	PASS
	5251.0 to 5270.0	20.423082	48.98756uW/MHz	PASS
	5270.0 to 5278.4	0.389154	3.7094uW/MHz	PASS
	5278.4 to 26000.0	0.060411	2.5uW/MHz	PASS

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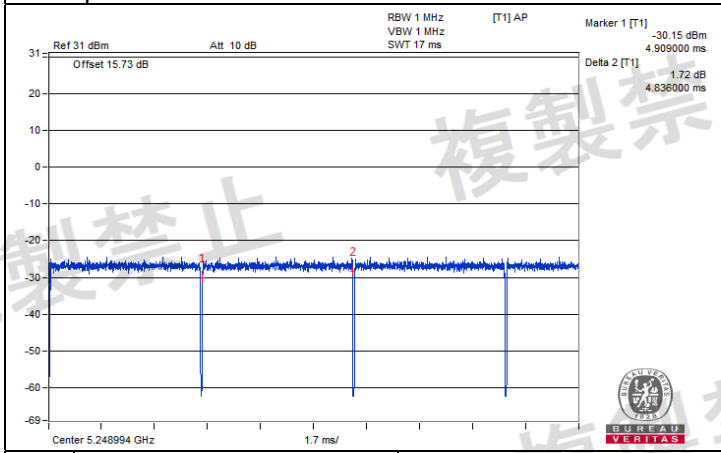
802.11ac (VHT40) Chain 0 W53

TEST CHANNEL		CH 54 (5270 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	904.091	0.008337	0.083333 uW/100kHz	PASS
	1000.0 to 5221.6	5220.544	0.017947	0.833333 uW/MHz	PASS
	5221.6 to 5230.0	5223.583	0.088105	1.094202 uW/MHz	PASS
	5230.0 to 5249.0	5248.994	2.040401	16.656974 uW/MHz	PASS(1)
	5249.0 to 5250.0	5249.917	61.80164	137.672992 uW/MHz	PASS
	5350.0 to 5358.4	5350.123	0.088716	5 uW/MHz	PASS
	5358.4 to 26000.0	25994.839	0.016634	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 62 (5310 MHz)			
V_{normal}	30.0 to 1000.0	640.978	0.003381	0.083333 uW/100kHz	PASS
	1000.0 to 5221.6	5221.072	0.019275	0.833333 uW/MHz	PASS
	5221.6 to 5230.0	5227.277	0.093541	1.817321 uW/MHz	PASS
	5230.0 to 5249.0	5247.745	0.104472	14.757291 uW/MHz	PASS
	5249.0 to 5250.0	5249.387	0.133968	40.63018 uW/MHz	PASS
	5350.0 to 5358.4	5356.912	0.116681	5 uW/MHz	PASS
	5358.4 to 26000.0	5389.362	0.023174	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



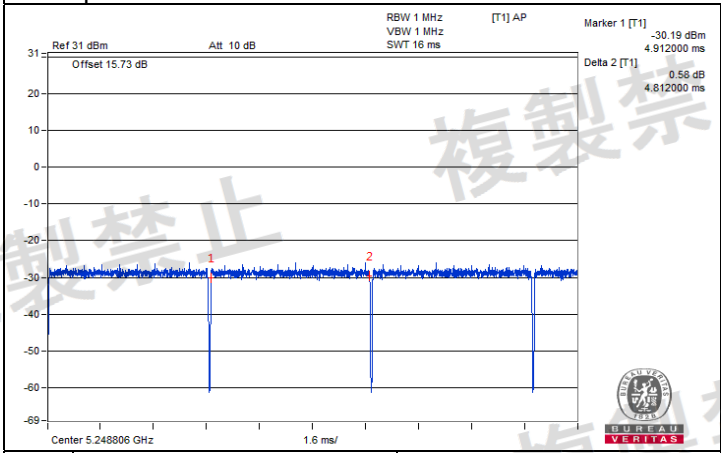
1	5248.994MHz	P = 2.040401uW/MHz			

802.11ac (VHT40) Chain 1 W53

TEST CHANNEL		CH 54 (5270 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	886.631	0.00317	0.083333 uW/100kHz	PASS
	1000.0 to 5221.6	5199.964	0.026242	0.833333 uW/MHz	PASS
	5221.6 to 5230.0	5228.371	0.095719	2.111955 uW/MHz	PASS
	5230.0 to 5249.0	5248.806	1.316221	16.356122 uW/MHz	PASS(1)
	5249.0 to 5250.0	5249.986	69.82324	161.379643 uW/MHz	PASS
	5350.0 to 5358.4	5350.773	0.085114	5 uW/MHz	PASS
	5358.4 to 26000.0	25984.518	0.015205	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 62 (5310 MHz)			
V_{normal}	30.0 to 1000.0	704.392	0.005715	0.083333 uW/100kHz	PASS
	1000.0 to 5221.6	4874.373	0.032509	0.833333 uW/MHz	PASS
	5221.6 to 5230.0	5229.448	0.091622	2.448634 uW/MHz	PASS
	5230.0 to 5249.0	5245.642	0.102094	12.035365 uW/MHz	PASS
	5249.0 to 5250.0	5249.387	0.110154	40.63018 uW/MHz	PASS
	5350.0 to 5358.4	5352.893	0.085507	5 uW/MHz	PASS
	5358.4 to 26000.0	5438.386	0.017783	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point. 2. Regarding the all data value, it transforms the “dBm” value into “uW” value. 3. It adds the all values and calculates a grand total. Define a grand total as “P”. 4. It divides “P” by sample data point (ex.501) and calculates the mean value. 5. It reports the mean value.



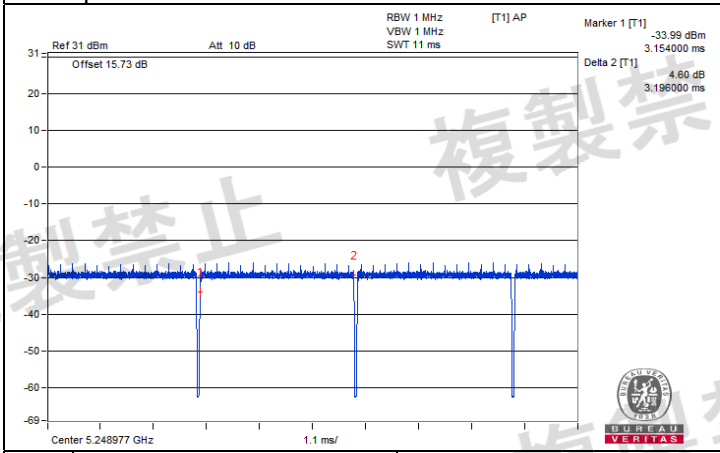
1	5248.806MHz	P = 1.316221uW/MHz			

802.11ac (VHT40) Chain 2 W53

TEST CHANNEL		CH 54 (5270 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	739.191	0.002911	0.083333 uW/100kHz	PASS
	1000.0 to 5221.6	5150.360	0.024322	0.833333 uW/MHz	PASS
	5221.6 to 5230.0	5228.251	0.103992	2.077434 uW/MHz	PASS
	5230.0 to 5249.0	5248.977	1.176257	16.629544 uW/MHz	PASS(1)
	5249.0 to 5250.0	5250.000	65.765784	166.666667 uW/MHz	PASS
	5350.0 to 5358.4	5356.433	0.076033	5 uW/MHz	PASS
	5358.4 to 26000.0	5389.362	0.015885	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 62 (5310 MHz)			
V_{normal}	30.0 to 1000.0	500.207	0.00342	0.083333 uW/100kHz	PASS
	1000.0 to 5221.6	5190.993	0.028973	0.833333 uW/MHz	PASS
	5221.6 to 5230.0	5225.823	0.089536	1.488352 uW/MHz	PASS
	5230.0 to 5249.0	5248.447	0.100693	15.796633 uW/MHz	PASS
	5249.0 to 5250.0	5249.729	0.074131	89.299443 uW/MHz	PASS
	5350.0 to 5358.4	5350.089	0.103992	5 uW/MHz	PASS
	5358.4 to 26000.0	5391.942	0.022233	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

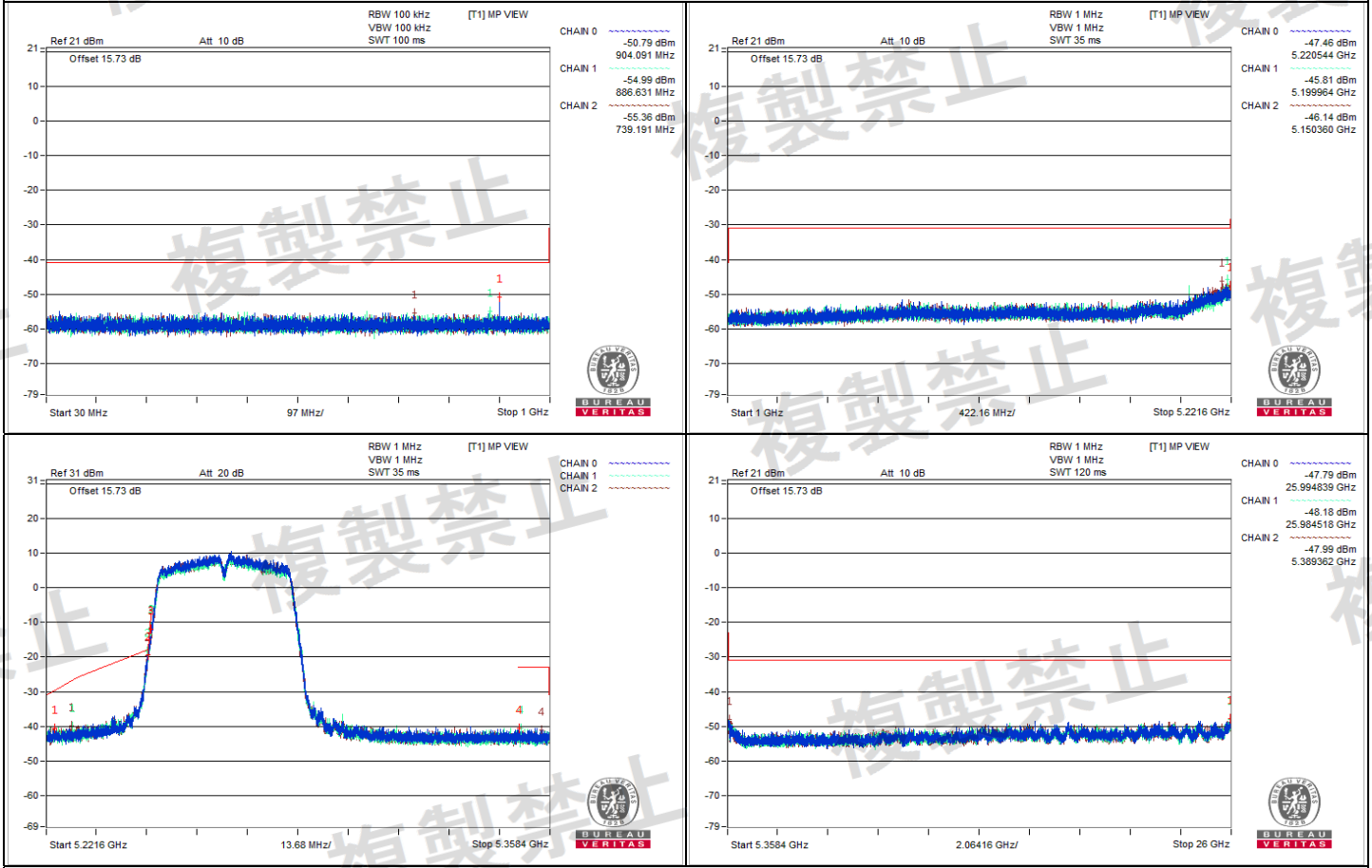
Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point. 2. Regarding the all data value, it transforms the “dBm” value into “uW” value. 3. It adds the all values and calculates a grand total. Define a grand total as “P”. 4. It divides “P” by sample data point (ex.501) and calculates the mean value. 5. It reports the mean value.



1	5248.977MHz	P = 1.176257uW/MHz			

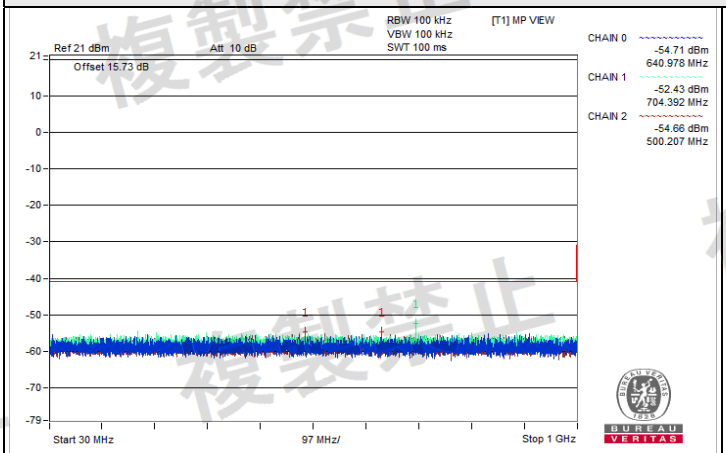
802.11ac (VHT40) Graph W53

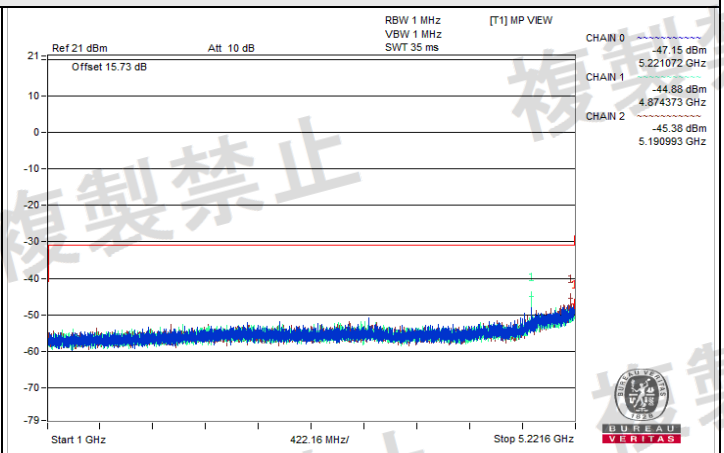
Vnormal

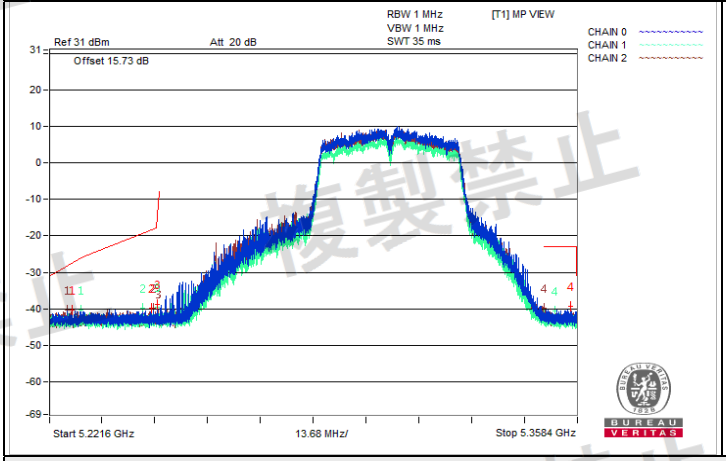


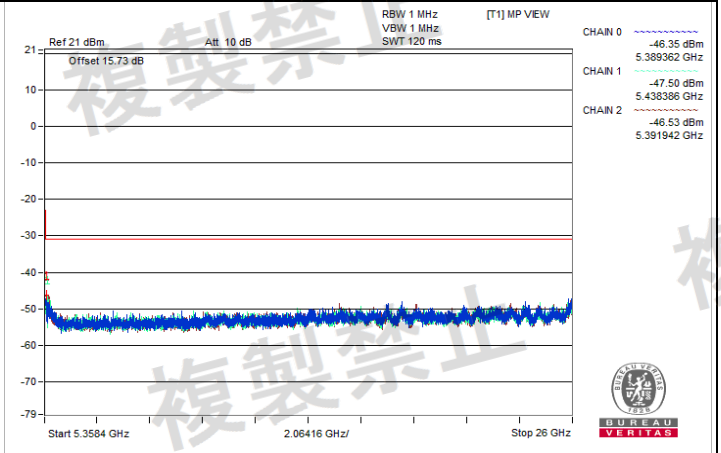
CH 54 (5270 MHz)

Vnormal









CH 62 (5310 MHz)

802.11ac (VHT40) [Worst result] x [Number of antenna ports] W53

TEST CHANNEL		CH 54 (5270 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.025011	0.25uW/100kHz	PASS
	1000.0 to 5221.6	0.078726	2.5uW/MHz	PASS
	5221.6 to 5230.0	0.311976	6.2323uW/MHz	PASS
	5230.0 to 5249.0	6.121203	49.97092uW/MHz	PASS
	5249.0 to 5250.0	209.469720	484.13893uW/MHz	PASS
	5350.0 to 5358.4	0.266148	15uW/MHz	PASS
	5358.4 to 26000.0	0.049902	2.5uW/MHz	PASS
TEST CHANNEL		CH 62 (5310 MHz)		
V_{normal}	30.0 to 1000.0	0.017145	0.25uW/100kHz	PASS
	1000.0 to 5221.6	0.097527	2.5uW/MHz	PASS
	5221.6 to 5230.0	0.280623	5.45196uW/MHz	PASS
	5230.0 to 5249.0	0.313416	44.27187uW/MHz	PASS
	5249.0 to 5250.0	0.401904	121.89054uW/MHz	PASS
	5350.0 to 5358.4	0.350043	15uW/MHz	PASS
	5358.4 to 26000.0	0.069522	2.5uW/MHz	PASS

802.11ac (VHT40) Chain 0 W56

TEST CHANNEL		CH 102 (5510 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	712.152	0.011858	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5460.000	0.067608	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5469.532	0.209411	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	25972.183	0.015101	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 118 (5590 MHz)			
V_{normal}	30.0 to 1000.0	903.000	0.012942	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5436.027	0.02704	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5469.610	0.079983	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5775.057	0.018408	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 142 (5710 MHz)			
V_{normal}	30.0 to 1000.0	155.736	0.003412	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5424.877	0.013152	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5464.146	0.072277	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5775.057	0.063096	4.166667 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

802.11ac (VHT40) Chain 1 W56

TEST CHANNEL		CH 102 (5510 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	478.746	0.004169	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5439.930	0.042073	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5468.835	0.126474	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	25972.183	0.016596	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 118 (5590 MHz)			
V_{normal}	30.0 to 1000.0	736.887	0.003999	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5441.602	0.021429	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5461.821	0.096383	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5828.161	0.028379	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 142 (5710 MHz)			
V_{normal}	30.0 to 1000.0	337.247	0.00414	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	1729.767	0.020559	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5467.285	0.070958	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5772.528	0.062951	4.166667 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

複製禁止

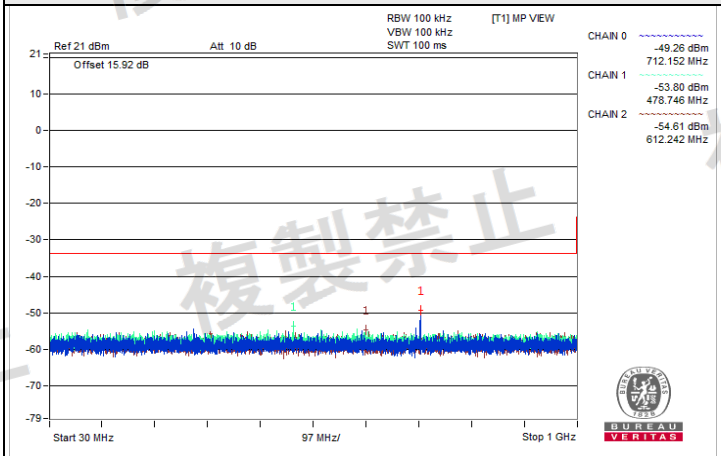
802.11ac (VHT40) Chain 2 W56

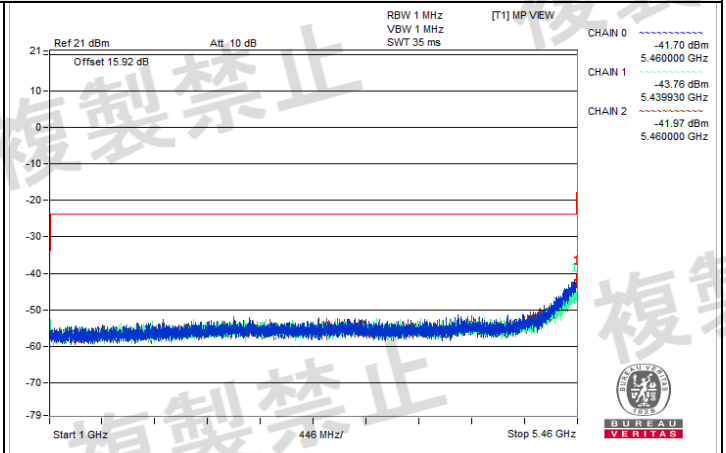
TEST CHANNEL		CH 102 (5510 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	612.242	0.003459	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5460.000	0.063533	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5469.920	0.248313	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5790.230	0.022961	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 118 (5590 MHz)			
V_{normal}	30.0 to 1000.0	236.367	0.003656	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5390.312	0.040272	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5469.610	0.13213	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5790.230	0.049545	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 142 (5710 MHz)			
V_{normal}	30.0 to 1000.0	237.458	0.004325	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5430.452	0.022909	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5469.803	0.090365	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5772.528	0.107647	4.166667 uW/MHz	PASS

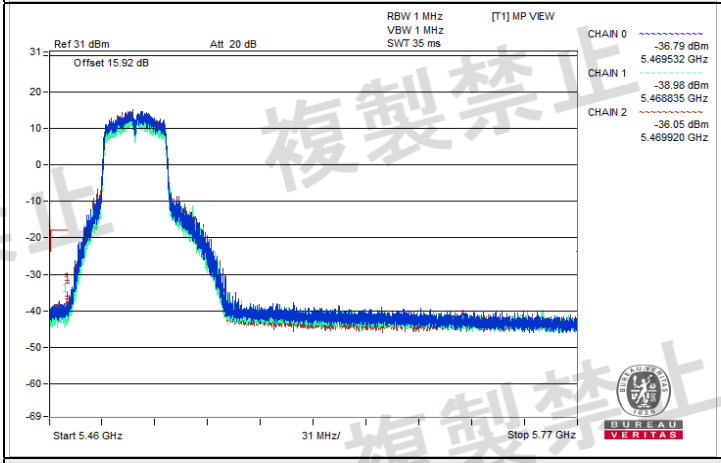
NOTE: 1. The spectrum plots are attached on the following pages.

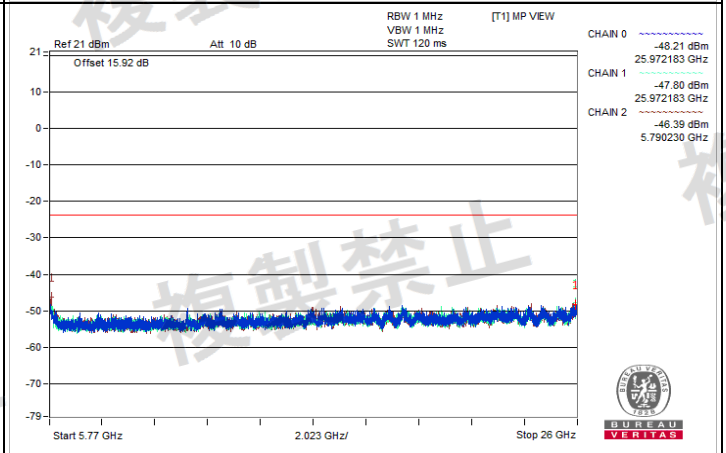
802.11ac (VHT40) Graph W56

Vnormal



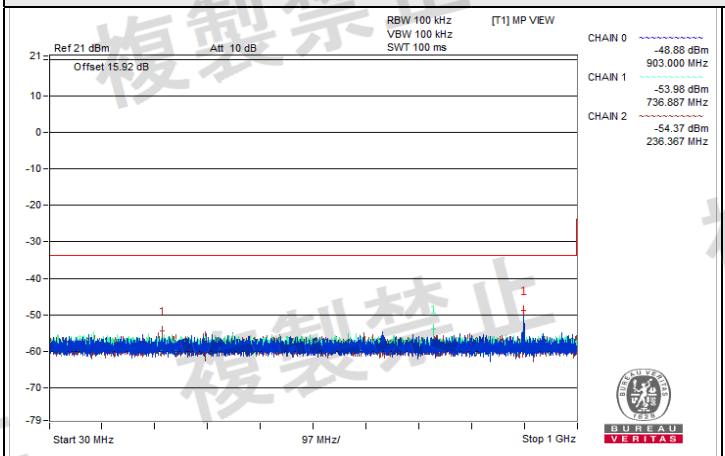


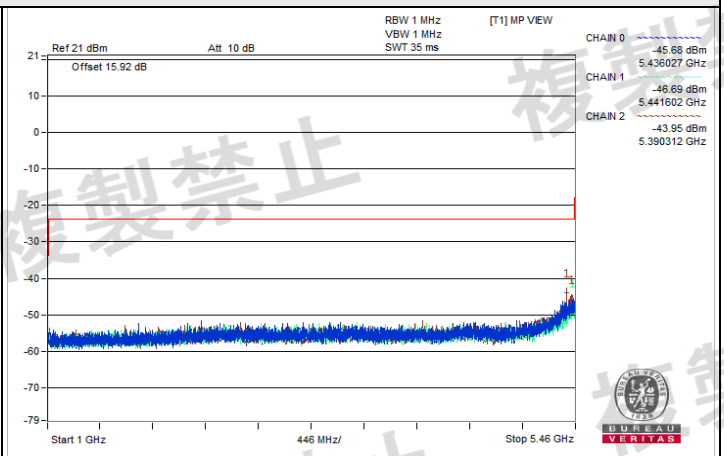


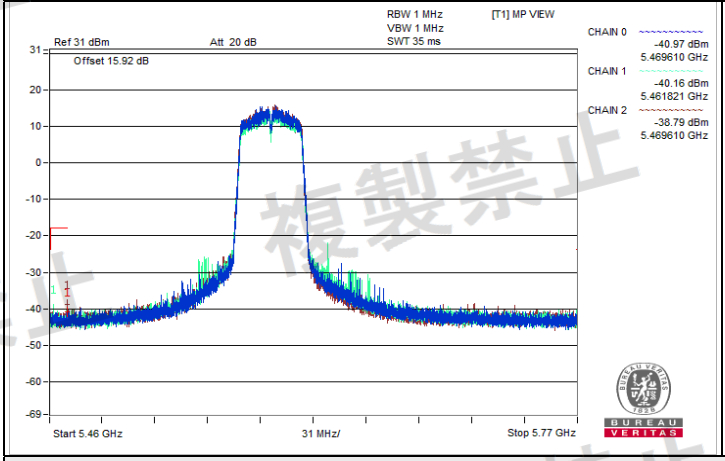


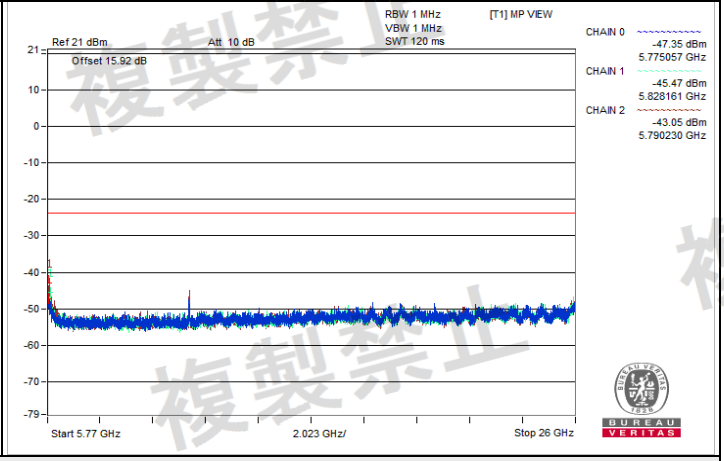
CH 102 (5510 MHz)

Vnormal



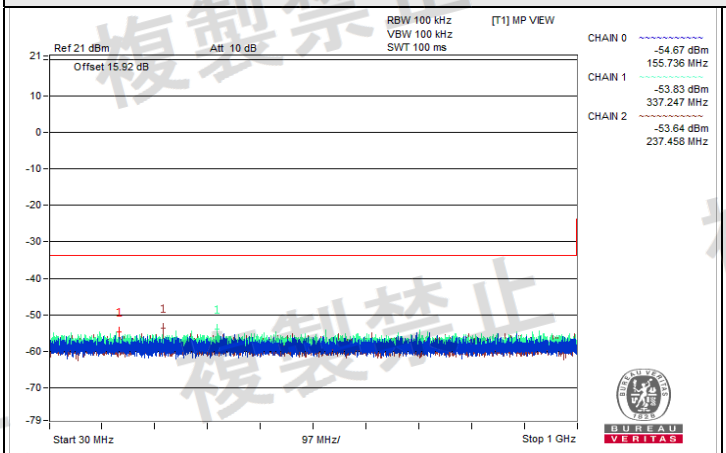


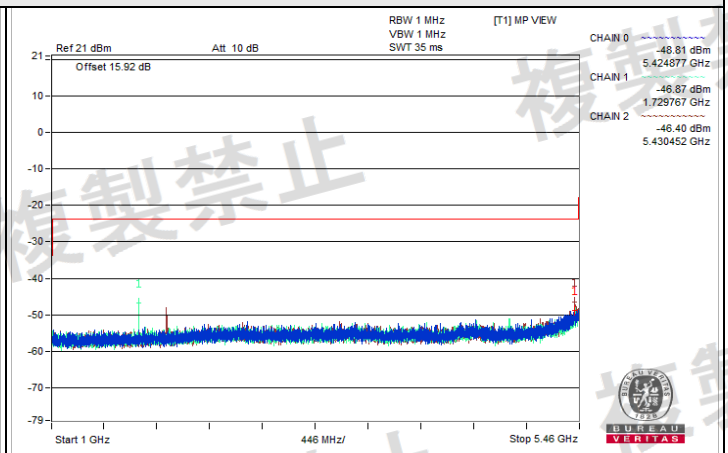


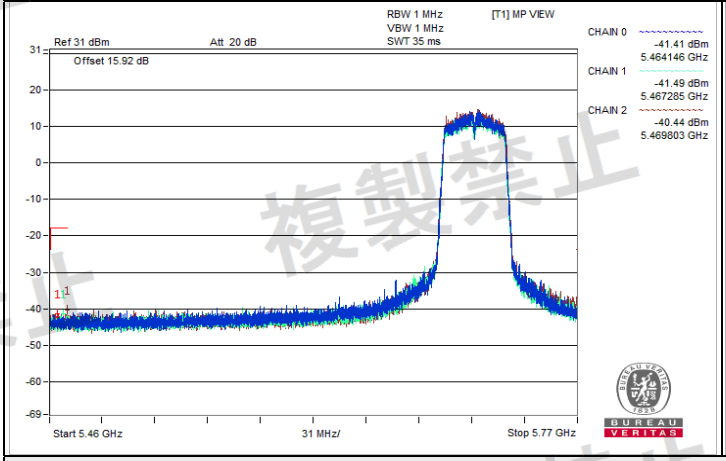


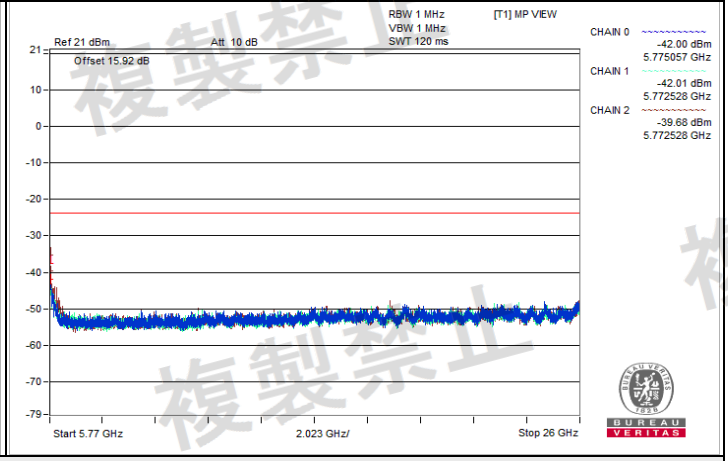
CH 118 (5590 MHz)

Vnormal









CH 142 (5710 MHz)

802.11ac (VHT40) [Worst result] x [Number of antenna ports] W56

TEST CHANNEL		CH 102 (5510 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.035574	1.25uW/100kHz	PASS
	1000.0 to 5460.0	0.202824	12.5uW/MHz	PASS
	5460.0 to 5470.0	0.744939	50uW/MHz	PASS
	5770.0 to 26000.0	0.068883	12.5uW/MHz	PASS
TEST CHANNEL		CH 118 (5590 MHz)		
V_{normal}	30.0 to 1000.0	0.038826	1.25uW/100kHz	PASS
	1000.0 to 5460.0	0.120816	12.5uW/MHz	PASS
	5460.0 to 5470.0	0.396390	50uW/MHz	PASS
	5770.0 to 26000.0	0.148635	12.5uW/MHz	PASS
TEST CHANNEL		CH 142 (5710 MHz)		
V_{normal}	30.0 to 1000.0	0.012975	1.25uW/100kHz	PASS
	1000.0 to 5460.0	0.068727	12.5uW/MHz	PASS
	5460.0 to 5470.0	0.271095	50uW/MHz	PASS
	5770.0 to 26000.0	0.322941	12.5uW/MHz	PASS

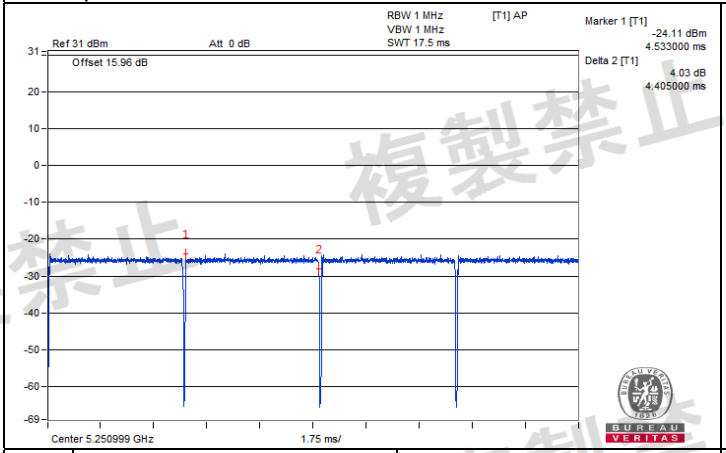
802.11ac (VHT80) Chain 0 W52

TEST CHANNEL		CH 42 (5210 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	441.643	0.003428	0.083333 uW/100kHz	PASS
	1000.0 to 5123.2	5107.222	0.024717	0.833333 uW/MHz	PASS
	5123.2 to 5150.0	5149.311	0.244906	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.999	2.630514	8.352544 uW/MHz	PASS(1)
	5251.0 to 5290.0	5251.004	2.055421	8.331759 uW/MHz	PASS(2)
	5290.0 to 5296.7	5291.776	0.164945	1.168971 uW/MHz	PASS(3)
	5296.7 to 26000.0	5296.700	0.107053	0.833333 uW/MHz	PASS(4)

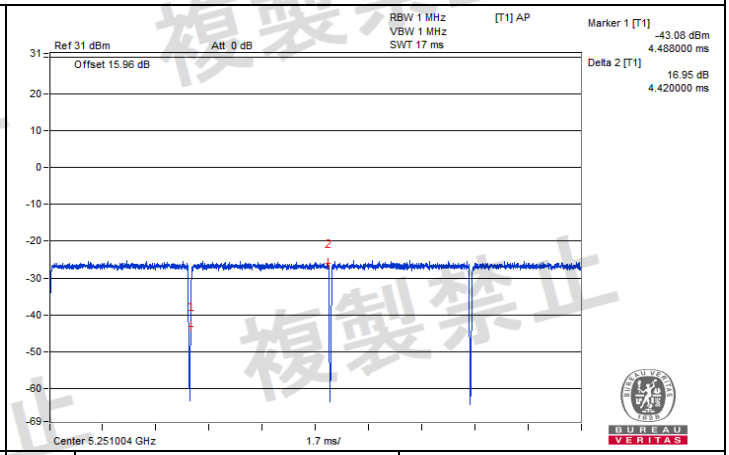
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

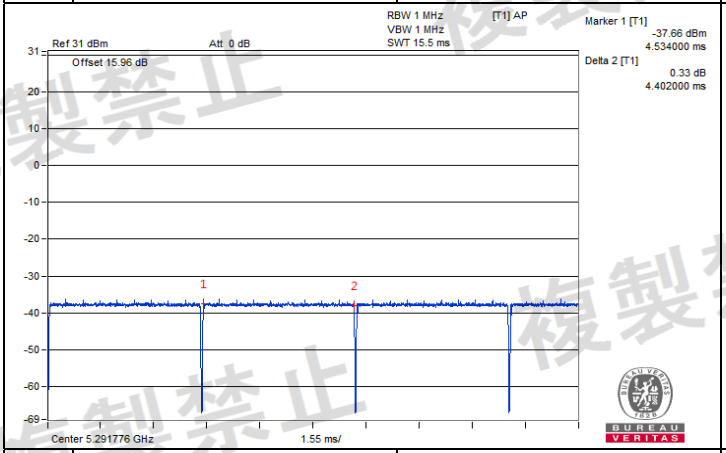
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



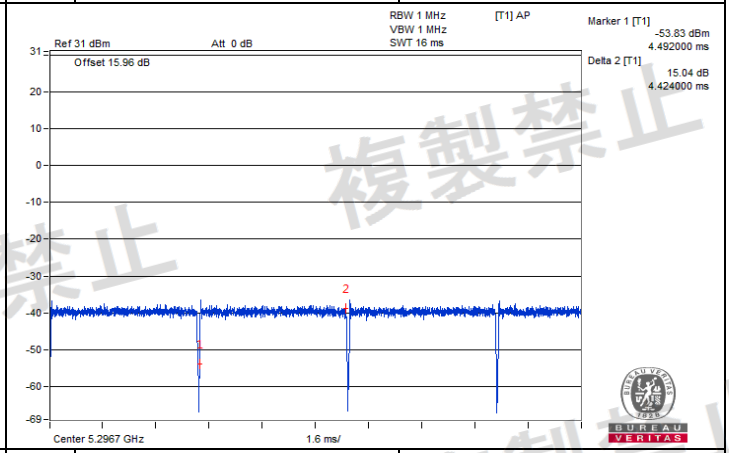
1	5250.999MHz	P = 2.630514uW/MHz



2	5251.004MHz	P = 2.055421uW/MHz



3	5291.776MHz	P = 0.164945uW/MHz



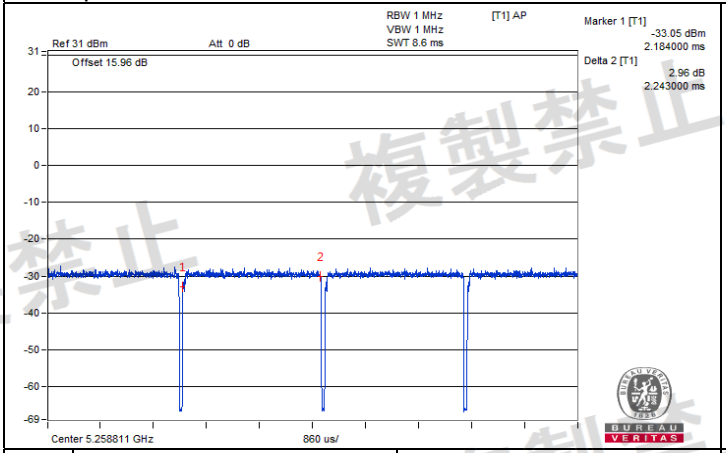
4	5296.700MHz	P = 0.107053uW/MHz

802.11ac (VHT80) Chain 1 W52

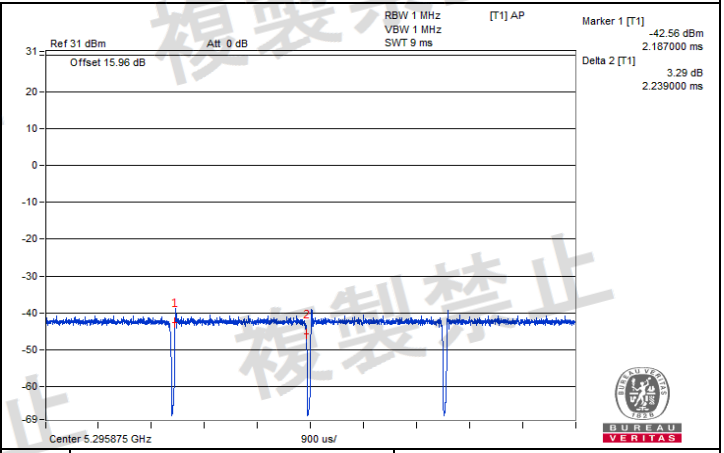
TEST CHANNEL		CH 42 (5210 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	124.817	0.003981	0.083333 uW/100kHz	PASS
	1000.0 to 5123.2	2518.368	0.026363	0.833333 uW/MHz	PASS
	5123.2 to 5150.0	5149.159	0.161065	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.050	14.859356	74.270912 uW/MHz	PASS
	5251.0 to 5290.0	5258.811	1.100391	5.762263 uW/MHz	PASS(1)
	5290.0 to 5296.7	5295.875	0.057095	0.881953 uW/MHz	PASS(2)
	5296.7 to 26000.0	5296.700	0.199986	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point. 2. Regarding the all data value, it transforms the “dBm” value into “uW” value. 3. It adds the all values and calculates a grand total. Define a grand total as “P”. 4. It divides “P” by sample data point (ex.501) and calculates the mean value. 5. It reports the mean value.



1	5258.811MHz	P = 1.100391uW/MHz



2	5295.875MHz	P = 0.057095uW/MHz

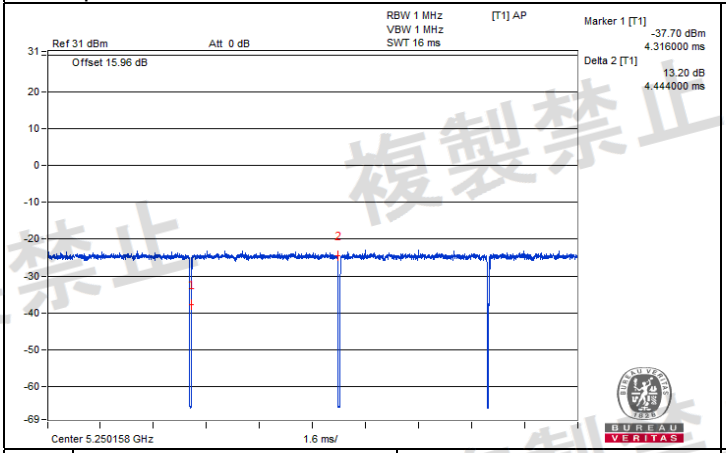
802.11ac (VHT80) Chain 2 W52

TEST CHANNEL		CH 42 (5210 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	240.975	0.003532	0.083333 uW/100kHz	PASS
	1000.0 to 5123.2	5090.214	0.021184	0.833333 uW/MHz	PASS
	5123.2 to 5150.0	5149.398	0.203704	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.158	3.362887	57.918693 uW/MHz	PASS(1)
	5251.0 to 5290.0	5260.763	1.549264	5.25475 uW/MHz	PASS(2)
	5290.0 to 5296.7	5290.779	0.190139	1.251887 uW/MHz	PASS(3)
	5296.7 to 26000.0	5304.463	0.039594	0.833333 uW/MHz	PASS(4)

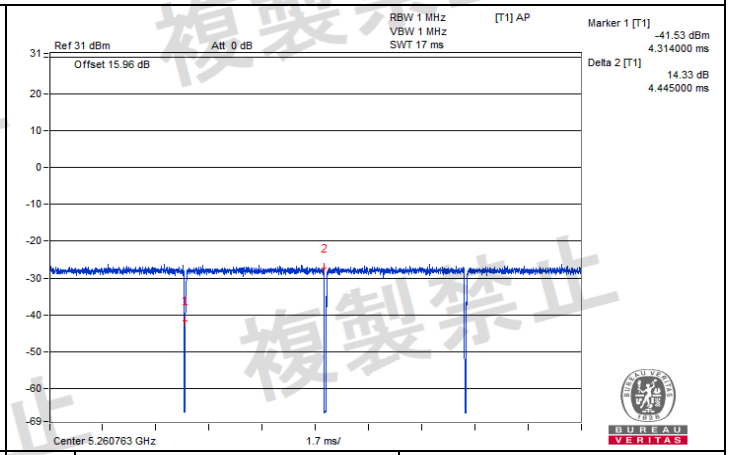
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

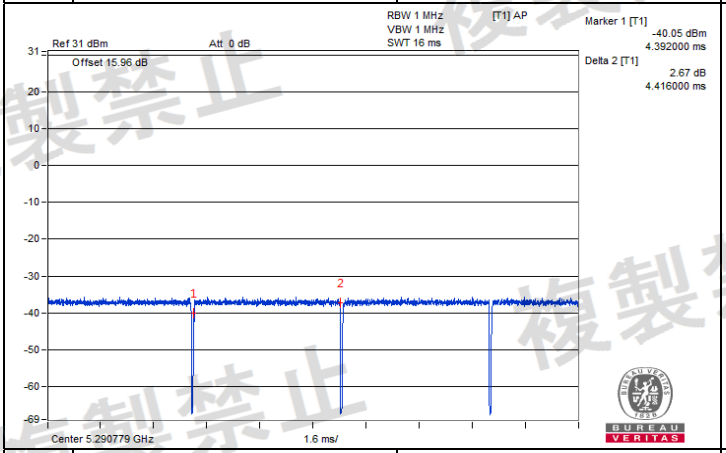
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



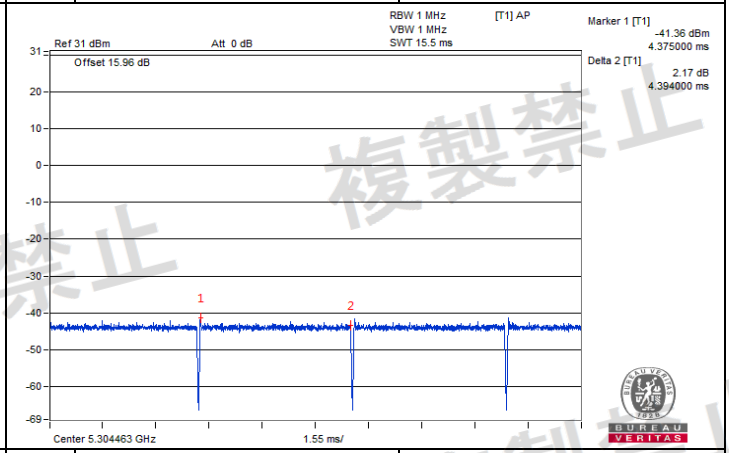
1	5250.158MHz	P = 3.362887uW/MHz



2	5260.763MHz	P = 1.549264uW/MHz



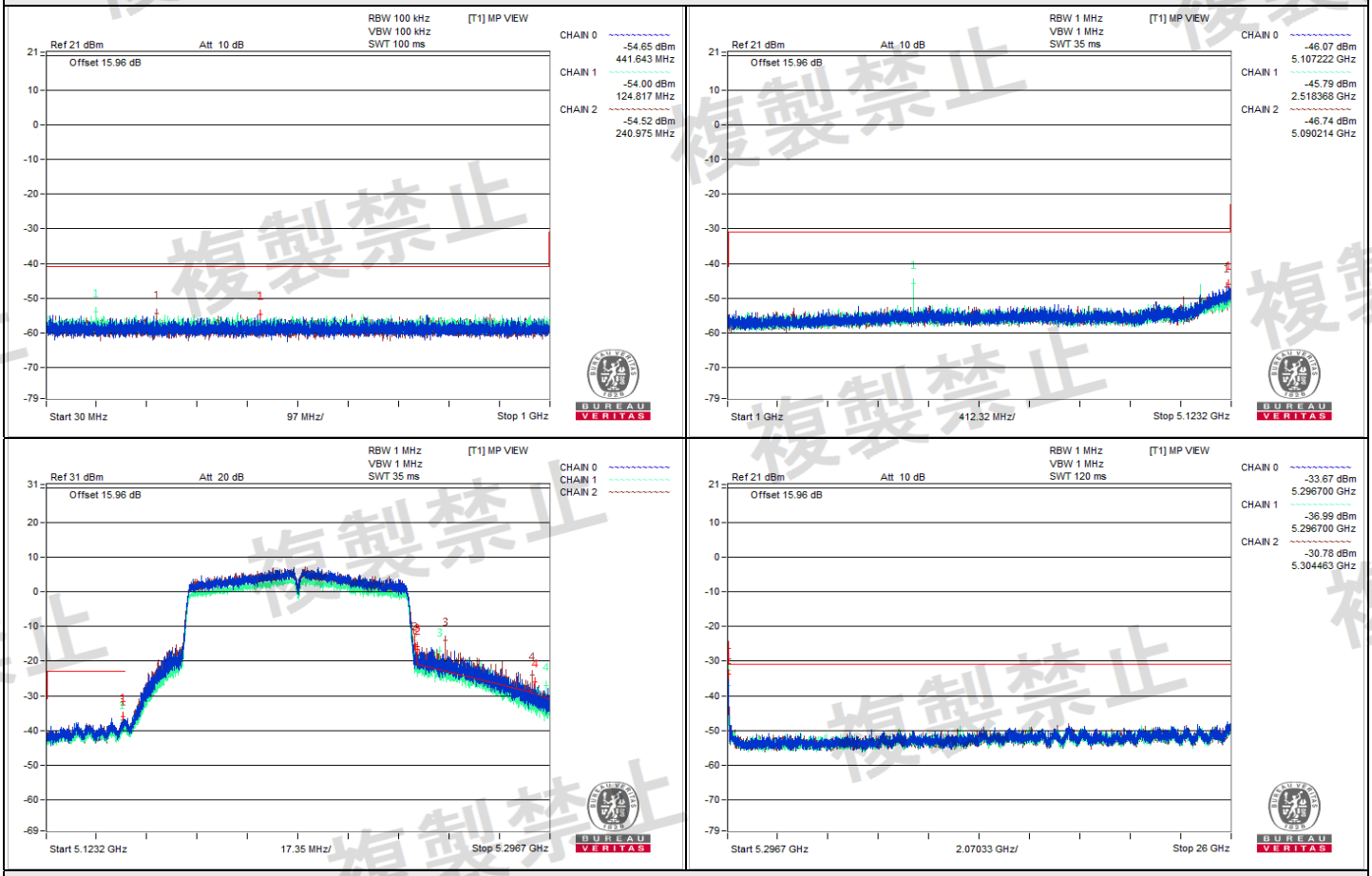
3	5290.779MHz	P = 0.190139uW/MHz



4	5304.463MHz	P = 0.039594uW/MHz

802.11ac (VHT80) Graph W52

Vnormal



CH 42 (5210 MHz)

802.11ac (VHT80) [Worst result] x [Number of antenna ports] W52

TEST CHANNEL		CH 42 (5210 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.011943	0.25uW/100kHz	PASS
	1000.0 to 5123.2	0.079089	2.5uW/MHz	PASS
	5123.2 to 5150.0	0.734718	15uW/MHz	PASS
	5250.0 to 5251.0	44.578068	222.81274uW/MHz	PASS
	5251.0 to 5290.0	6.166263	24.99528uW/MHz	PASS
	5290.0 to 5296.7	0.570417	3.75566uW/MHz	PASS
	5296.7 to 26000.0	0.599958	2.5uW/MHz	PASS

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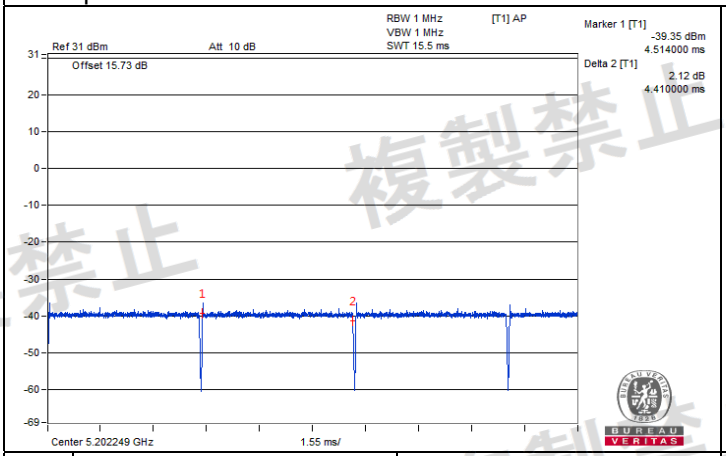
802.11ac (VHT80) Chain 0 W53

TEST CHANNEL		CH 58 (5290 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	895.967	0.020091	0.083333 uW/100kHz	PASS
	1000.0 to 5203.3	5202.249	0.106152	0.833333 uW/MHz	PASS(1)
	5203.3 to 5210.0	5204.254	0.108104	0.889808 uW/MHz	PASS(2)
	5210.0 to 5249.0	5242.988	1.465266	6.273295 uW/MHz	PASS(3)
	5249.0 to 5250.0	5249.776	21.978599	49.752941 uW/MHz	PASS
	5350.0 to 5376.8	5350.081	0.191426	5 uW/MHz	PASS
	5376.8 to 26000.0	5392.267	0.021827	0.833333 uW/MHz	PASS

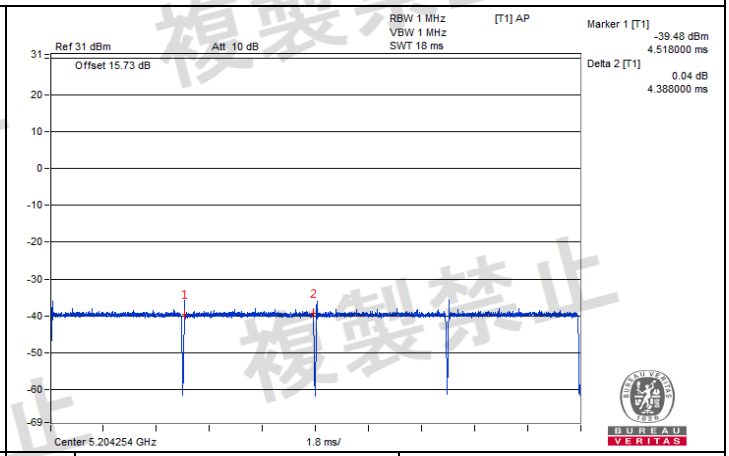
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

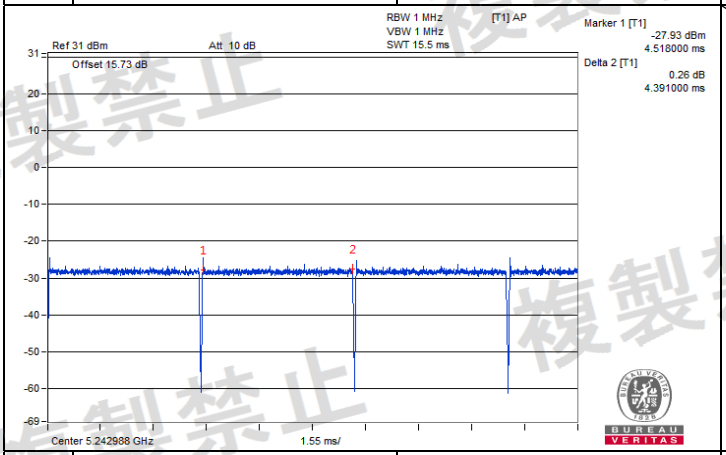
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5202.249MHz	P = 0.106152uW/MHz



2	5204.254MHz	P = 0.108104uW/MHz



3	5242.988MHz	P = 1.465266uW/MHz

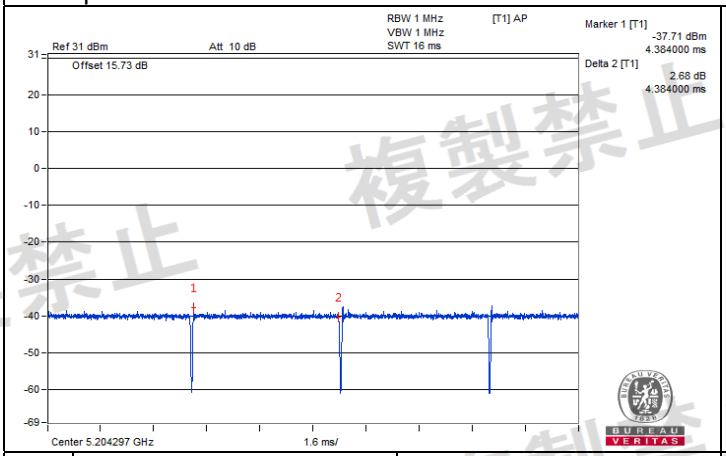
802.11ac (VHT80) Chain 1 W53

TEST CHANNEL		CH 58 (5290 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	156.585	0.003698	0.083333 uW/100kHz	PASS
	1000.0 to 5203.3	5203.300	0.311172	0.833333 uW/MHz	PASS
	5203.3 to 5210.0	5204.297	0.096711	0.892442 uW/MHz	PASS(1)
	5210.0 to 5249.0	5246.826	1.371081	7.520105 uW/MHz	PASS(2)
	5249.0 to 5250.0	5249.277	1.524319	15.76953 uW/MHz	PASS(3)
	5350.0 to 5376.8	5350.319	0.14388	5 uW/MHz	PASS
	5376.8 to 26000.0	25992.266	0.014791	0.833333 uW/MHz	PASS

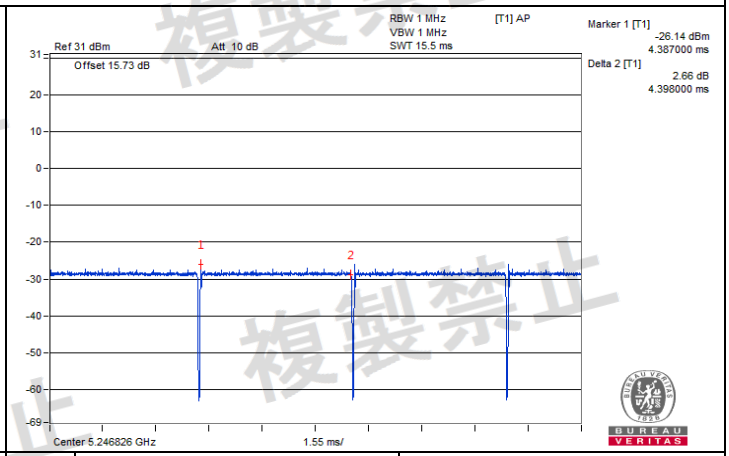
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

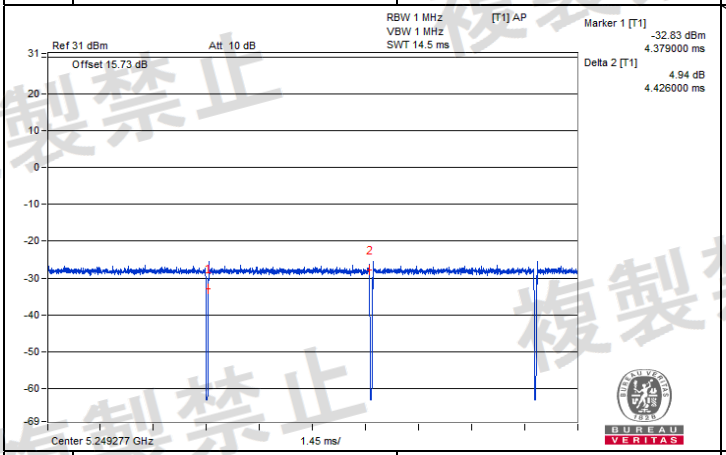
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5204.297MHz	P = 0.096711uW/MHz



2	5246.826MHz	P = 1.371081uW/MHz



3	5249.277MHz	P = 1.524319uW/MHz

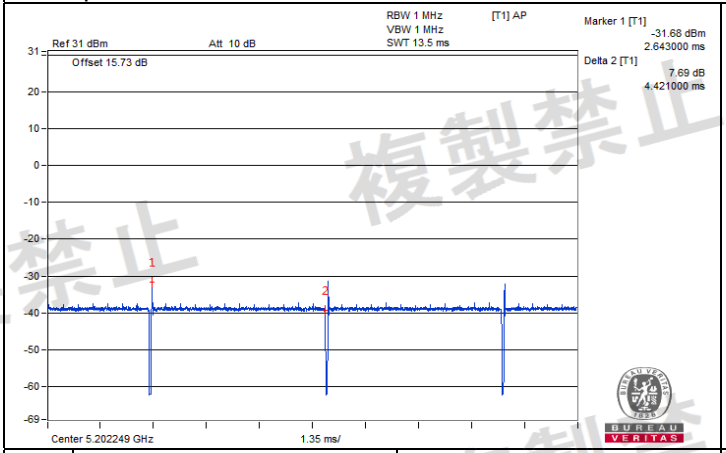
802.11ac (VHT80) Chain 2 W53

TEST CHANNEL		CH 58 (5290 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	723.307	0.003508	0.083333 uW/100kHz	PASS
	1000.0 to 5203.3	5202.249	0.128127	0.833333 uW/MHz	PASS(1)
	5203.3 to 5210.0	5204.406	0.134089	0.899153 uW/MHz	PASS(2)
	5210.0 to 5249.0	5244.571	1.727128	6.760323 uW/MHz	PASS(3)
	5249.0 to 5250.0	5249.537	2.239446	28.695828 uW/MHz	PASS(4)
	5350.0 to 5376.8	5354.114	0.166341	5 uW/MHz	PASS
	5376.8 to 26000.0	5410.312	0.023605	0.833333 uW/MHz	PASS

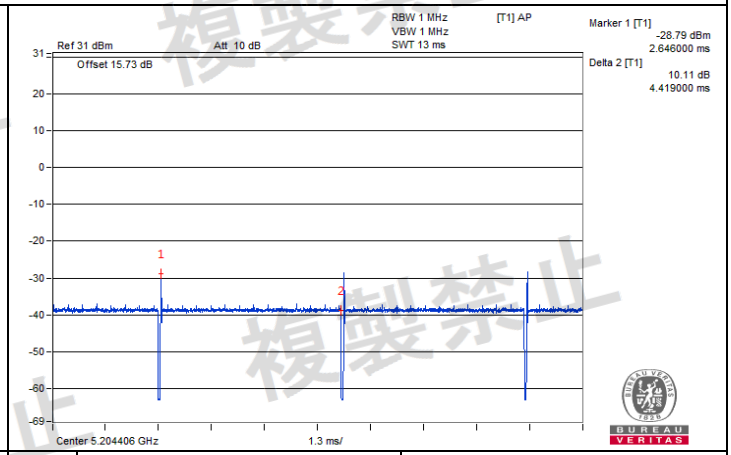
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

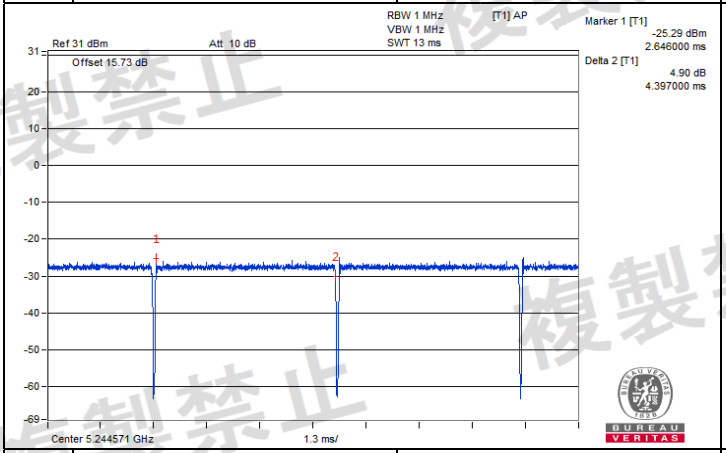
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



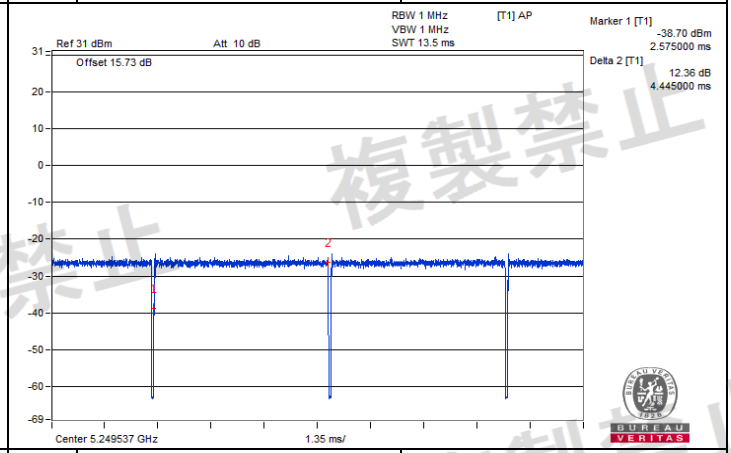
1	5202.249MHz	P = 0.128127uW/MHz



2	5204.406MHz	P = 0.134089uW/MHz



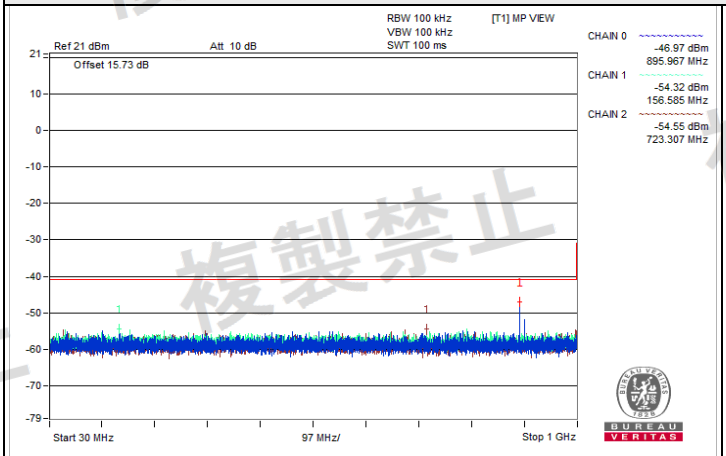
3	5244.571MHz	P = 1.727128uW/MHz

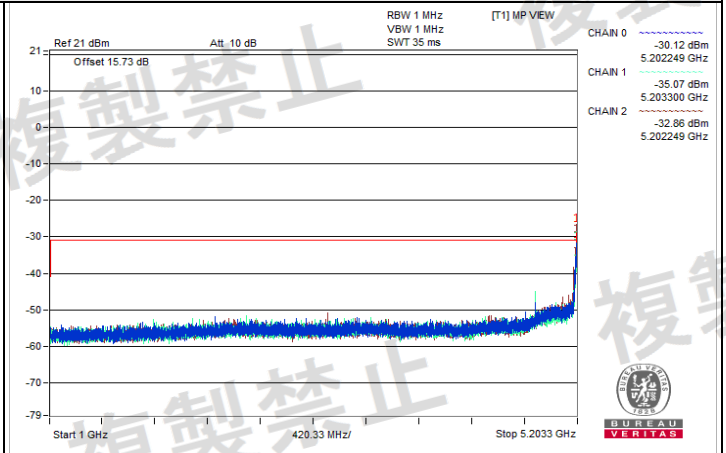


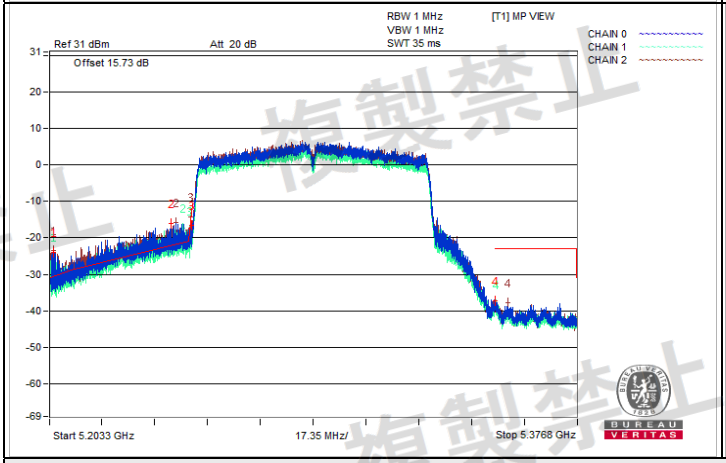
4	5249.537MHz	P = 2.239446uW/MHz

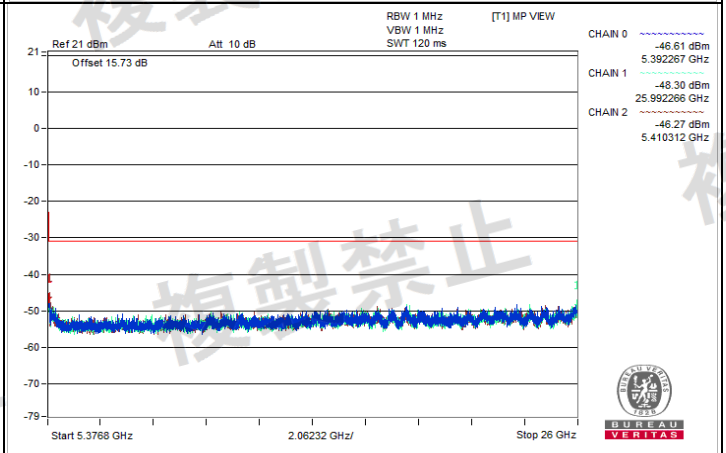
802.11ac (VHT80) Graph W53

Vnormal









CH 58 (5290 MHz)

802.11ac (VHT80) [Worst result] x [Number of antenna ports] W53

TEST CHANNEL		CH 58 (5290 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.060273	0.25uW/100kHz	PASS
	1000.0 to 5203.3	0.933516	2.5uW/MHz	PASS
	5203.3 to 5210.0	0.402267	2.69746uW/MHz	PASS
	5210.0 to 5249.0	5.181384	20.28097uW/MHz	PASS
	5249.0 to 5250.0	65.935797	149.25882uW/MHz	PASS
	5350.0 to 5376.8	0.574278	15uW/MHz	PASS
	5376.8 to 26000.0	0.070815	2.5uW/MHz	PASS

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802.11ac (VHT80) Chain 0 W56

TEST CHANNEL		CH 106 (5530 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	375.198	0.003319	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5453.867	0.302691	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5469.455	0.682339	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5470.000	0.601174	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	25982.298	0.017179	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 122 (5610 MHz)			
V_{normal}	30.0 to 1000.0	572.351	0.003597	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5456.655	0.047206	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5462.751	0.111944	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.958	0.087096	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5787.701	0.026669	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 138 (5690 MHz)			
V_{normal}	30.0 to 1000.0	313.846	0.00342	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5448.850	0.018281	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5461.085	0.07709	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.997	0.058749	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5787.701	0.5188	4.166667 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

802.11ac (VHT80) Chain 1 W56

TEST CHANNEL		CH 106 (5530 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	906.395	0.003304	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5449.965	0.174582	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5469.493	0.32961	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.610	0.467735	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5770.000	0.015205	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 122 (5610 MHz)			
V_{normal}	30.0 to 1000.0	611.151	0.003614	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5456.655	0.042267	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5460.813	0.134276	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.532	0.153462	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5775.057	0.038459	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 138 (5690 MHz)			
V_{normal}	30.0 to 1000.0	307.177	0.003606	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5456.655	0.016943	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5468.718	0.068549	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.958	0.065917	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5785.172	1.352073	4.166667 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

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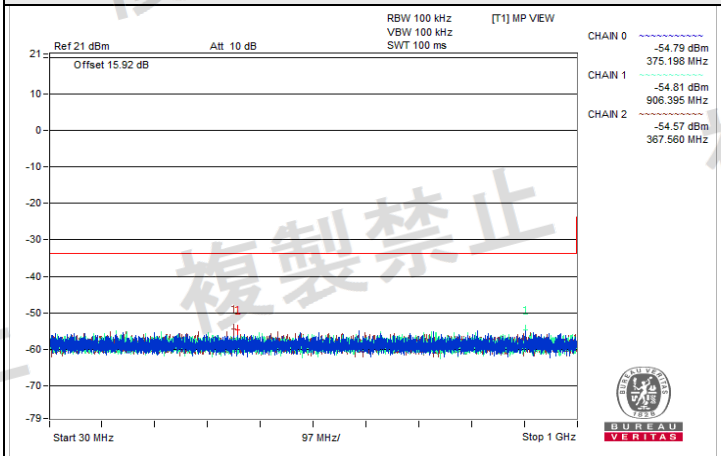
802.11ac (VHT80) Chain 2 W56

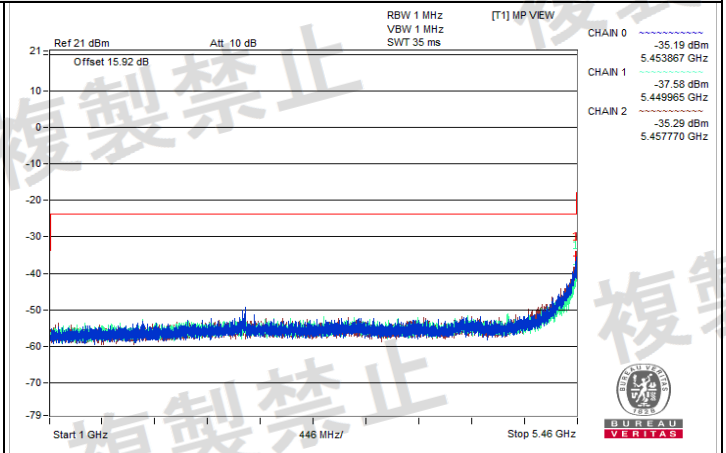
TEST CHANNEL		CH 106 (5530 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	367.560	0.003491	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5457.770	0.295801	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5464.960	0.61235	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.726	0.657658	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5807.931	0.0302	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 122 (5610 MHz)			
V_{normal}	30.0 to 1000.0	447.827	0.003251	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5437.700	0.053088	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5462.015	0.135207	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.842	0.162555	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5775.057	0.052481	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 138 (5690 MHz)			
V_{normal}	30.0 to 1000.0	262.557	0.003981	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5449.407	0.023878	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5462.286	0.082794	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.881	0.080168	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5772.528	0.498884	4.166667 uW/MHz	PASS

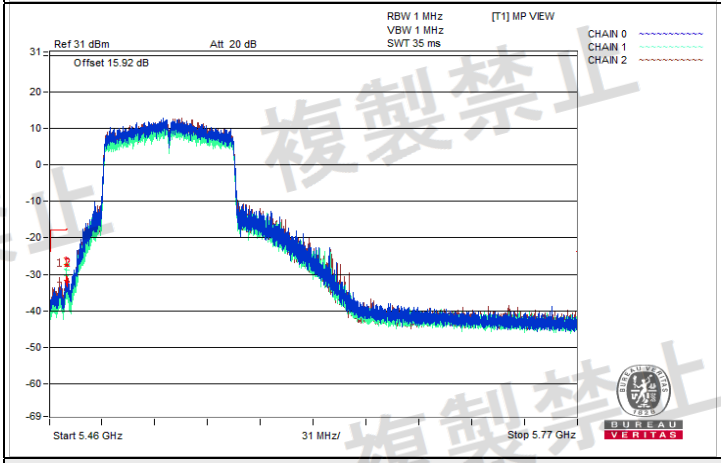
NOTE: 1. The spectrum plots are attached on the following pages.

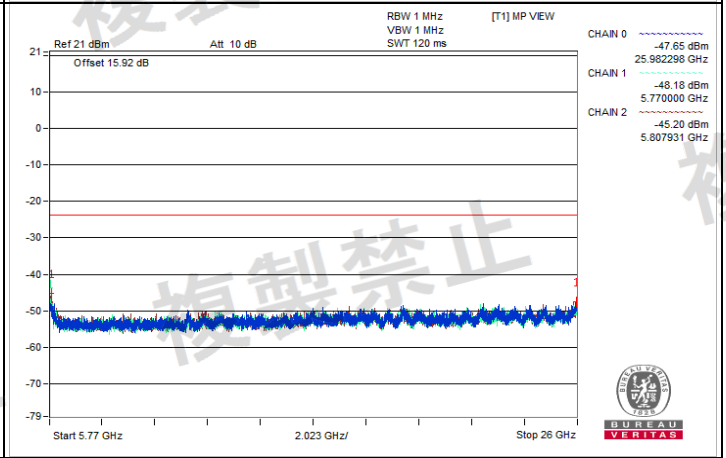
802.11ac (VHT80) Graph W56

Vnormal



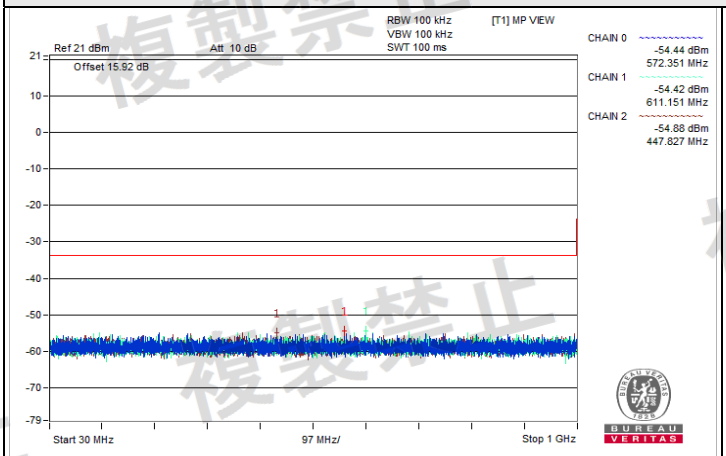


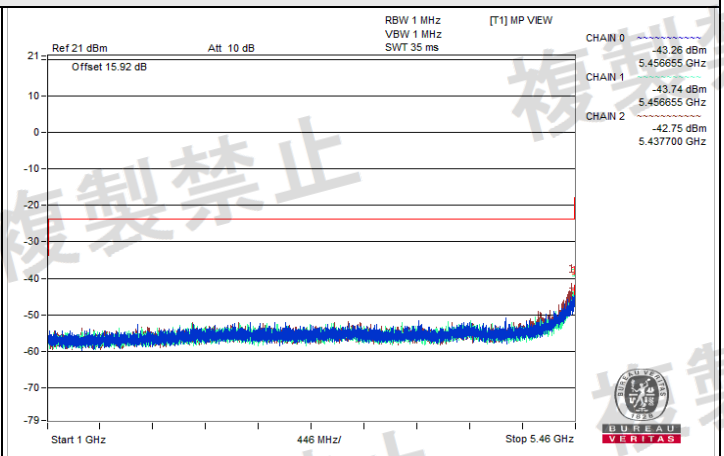


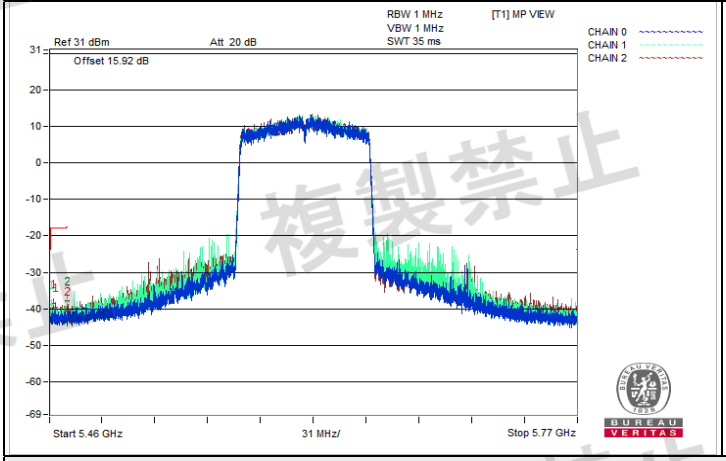


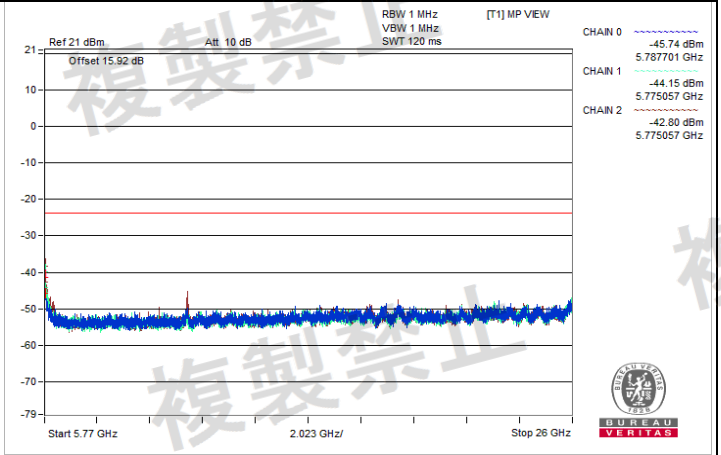
CH 106 (5530 MHz)

Vnormal



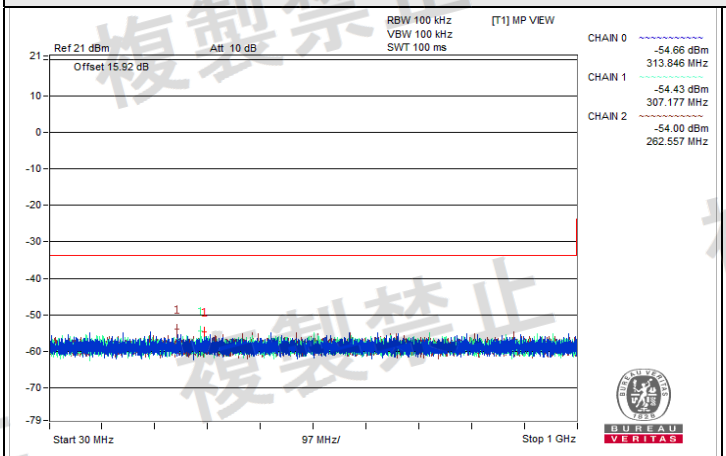


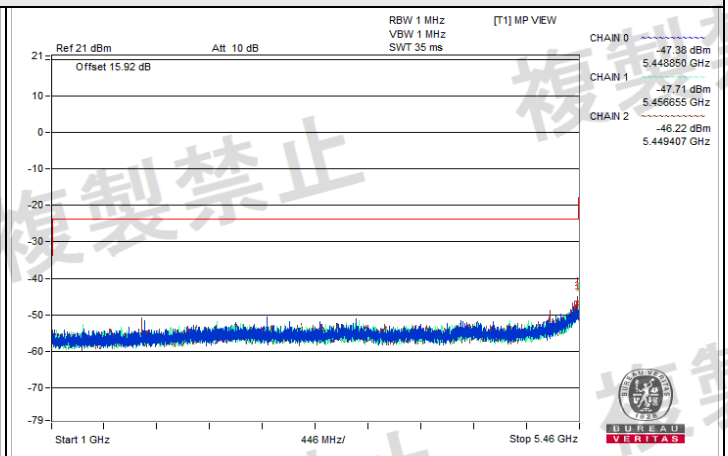


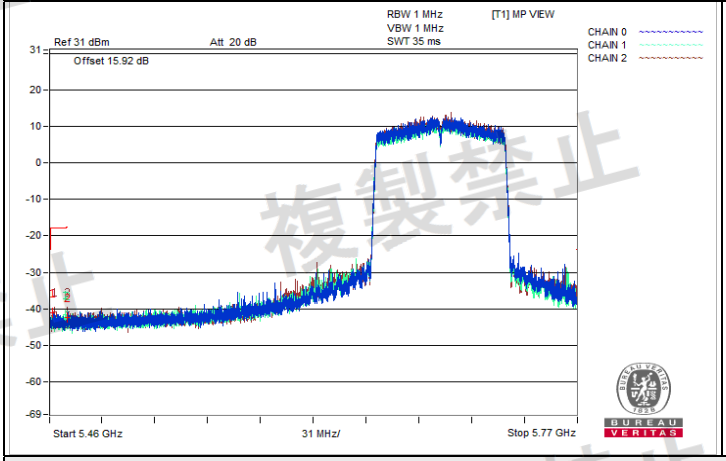


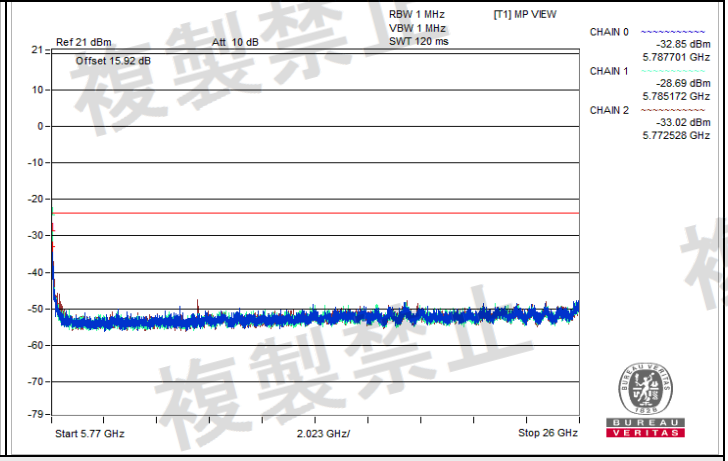
CH 122 (5610 MHz)

Vnormal









CH 138 (5690 MHz)

802.11ac (VHT80) [Worst result] x [Number of antenna ports] W56

TEST CHANNEL		CH 106 (5530 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.010473	1.25uW/100kHz	PASS
	1000.0 to 5460.0	0.908073	12.5uW/MHz	PASS
	5460.0 to 5469.5	2.047017	50uW/MHz	PASS
	5469.5 to 5470.0	1.972974	51.2uW/MHz	PASS
	5770.0 to 26000.0	0.090600	12.5uW/MHz	PASS
TEST CHANNEL		CH 122 (5610 MHz)		
V_{normal}	30.0 to 1000.0	0.010842	1.25uW/100kHz	PASS
	1000.0 to 5460.0	0.159264	12.5uW/MHz	PASS
	5460.0 to 5469.5	0.405621	50uW/MHz	PASS
	5469.5 to 5470.0	0.487665	51.2uW/MHz	PASS
	5770.0 to 26000.0	0.157443	12.5uW/MHz	PASS
TEST CHANNEL		CH 138 (5690 MHz)		
V_{normal}	30.0 to 1000.0	0.011943	1.25uW/100kHz	PASS
	1000.0 to 5460.0	0.071634	12.5uW/MHz	PASS
	5460.0 to 5469.5	0.248382	50uW/MHz	PASS
	5469.5 to 5470.0	0.240504	51.2uW/MHz	PASS
	5770.0 to 26000.0	4.056219	12.5uW/MHz	PASS

802.11ac (VHT160) Chain 0 W52+53

TEST CHANNEL		CH 50 (5250 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	682.688	0.003342	0.083333 uW/100kHz	PASS
	1000.0 to 5099.6	4874.634	0.070632	0.833333 uW/MHz	PASS
	5099.6 to 5150.0	5128.439	0.257632	5 uW/MHz	PASS
	5350.0 to 5400.4	5356.182	0.222331	5 uW/MHz	PASS
	5400.4 to 26000.0	5400.400	0.064269	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

802.11ac (VHT160) Chain 1 W52+53

TEST CHANNEL		CH 50 (5250 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	478.261	0.003243	0.083333 uW/100kHz	PASS
	1000.0 to 5099.6	4874.122	0.089536	0.833333 uW/MHz	PASS
	5099.6 to 5150.0	5144.682	0.304789	5 uW/MHz	PASS
	5350.0 to 5400.4	5356.520	0.192309	5 uW/MHz	PASS
	5400.4 to 26000.0	5402.974	0.066988	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

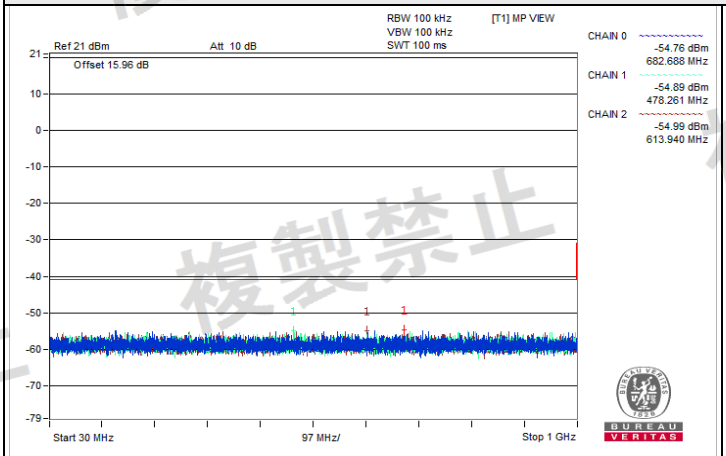
802.11ac (VHT160) Chain 2 W52+53

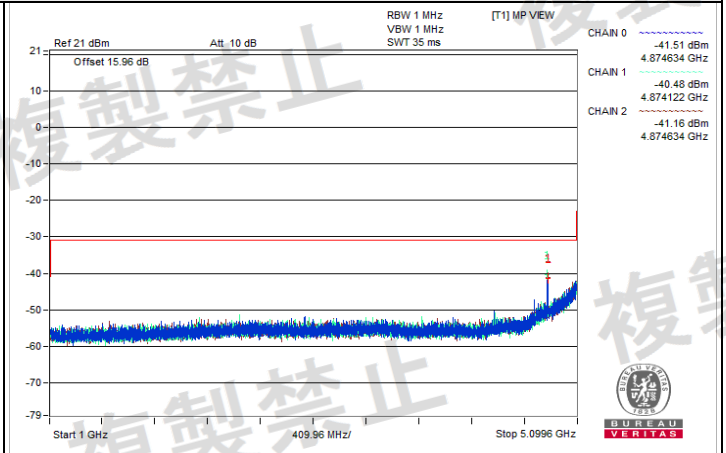
TEST CHANNEL		CH 50 (5250 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	613.940	0.00317	0.083333 uW/100kHz	PASS
	1000.0 to 5099.6	4874.634	0.07656	0.833333 uW/MHz	PASS
	5099.6 to 5150.0	5145.208	0.341979	5 uW/MHz	PASS
	5350.0 to 5400.4	5355.919	0.242661	5 uW/MHz	PASS
	5400.4 to 26000.0	5413.274	0.048978	0.833333 uW/MHz	PASS

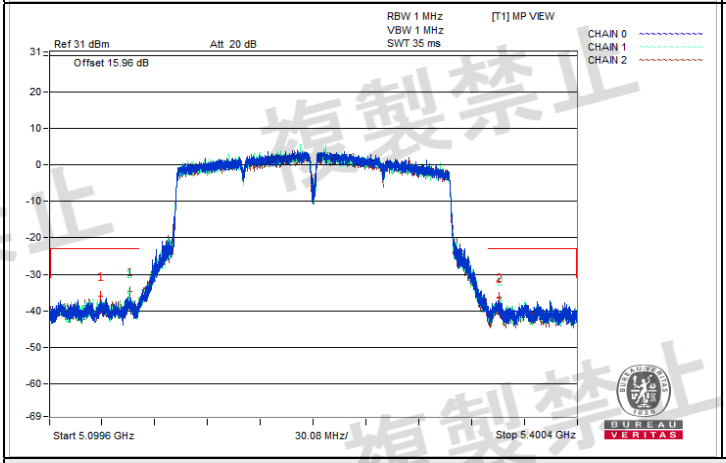
NOTE: 1. The spectrum plots are attached on the following pages.

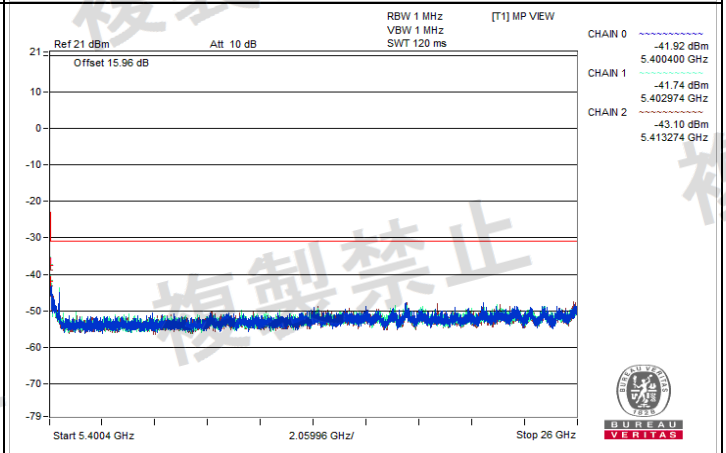
802.11ac (VHT160) Graph W52+53

Vnormal









CH 50 (5250 MHz)

802.11ac (VHT160) [Worst result] x [Number of antenna ports] W52+53

TEST CHANNEL		CH 50 (5250 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.010026	0.25uW/100kHz	PASS
	1000.0 to 5099.6	0.268608	2.5uW/MHz	PASS
	5099.6 to 5150.0	1.025937	15uW/MHz	PASS
	5350.0 to 5400.4	0.727983	15uW/MHz	PASS
	5400.4 to 26000.0	0.200964	2.5uW/MHz	PASS

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802.11ac (VHT160) Chain 0 W56

TEST CHANNEL		CH 114 (5570 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	177.440	0.003556	0.416667 uW/100kHz	PASS
	1000.0 to 5419.6	5414.627	0.086497	4.166667 uW/MHz	PASS
	5419.6 to 5470.0	5465.257	0.357273	16.666667 uW/MHz	PASS
	5725.0 to 26000.0	5732.603	0.103514	4.166667 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

802.11ac (VHT160) Chain 1 W56

TEST CHANNEL		CH 114 (5570 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	354.222	0.004446	0.416667 uW/100kHz	PASS
	1000.0 to 5419.6	5417.942	0.080353	4.166667 uW/MHz	PASS
	5419.6 to 5470.0	5465.524	0.353997	16.666667 uW/MHz	PASS
	5725.0 to 26000.0	5732.603	0.113763	4.166667 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

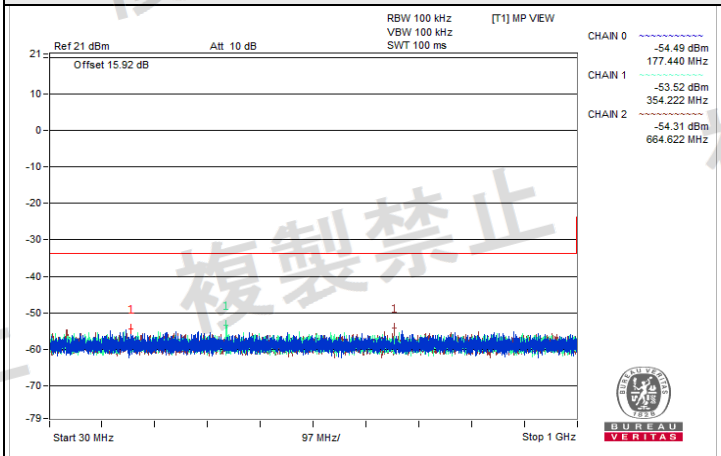
802.11ac (VHT160) Chain 2 W56

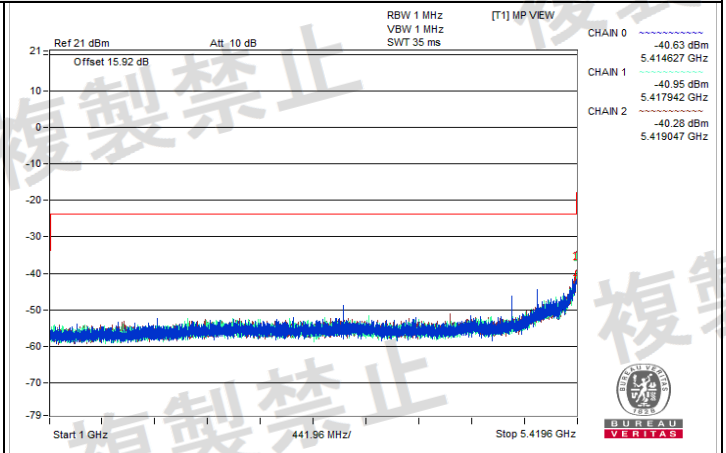
TEST CHANNEL		CH 114 (5570 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	664.622	0.003707	0.416667 uW/100kHz	PASS
	1000.0 to 5419.6	5419.047	0.093756	4.166667 uW/MHz	PASS
	5419.6 to 5470.0	5451.590	0.355631	16.666667 uW/MHz	PASS
	5725.0 to 26000.0	5727.534	0.092897	4.166667 uW/MHz	PASS

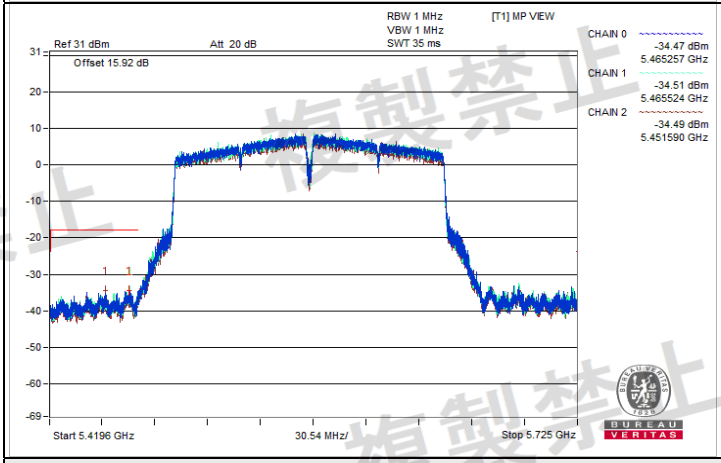
NOTE: 1. The spectrum plots are attached on the following pages.

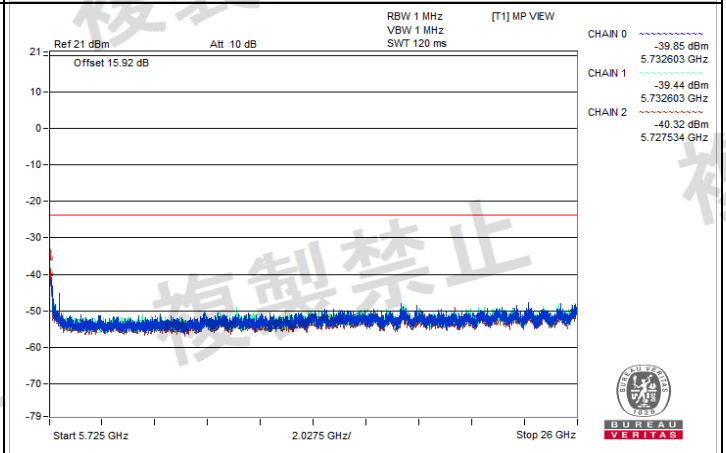
802.11ac (VHT160) Graph W56

Vnormal









CH 114 (5570 MHz)

802.11ac (VHT160) [Worst result] x [Number of antenna ports] W56

TEST CHANNEL		CH 114 (5570 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.013338	1.25uW/100kHz	PASS
	1000.0 to 5419.6	0.281268	12.5uW/MHz	PASS
	5419.6 to 5470.0	1.071819	50uW/MHz	PASS
	5725.0 to 26000.0	0.341289	12.5uW/MHz	PASS

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802.11ax (HE20) Chain 0 W52

TEST CHANNEL		CH 36 (5180 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	884.327	0.003581	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	4940.077	0.026485	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5142.467	0.103276	5 uW/MHz	PASS
	5250.0 to 5250.2	5250.021	0.069663	631.265535 uW/MHz	PASS
	5250.2 to 5251.0	5250.660	0.083753	72.925388 uW/MHz	PASS
	5251.0 to 5260.0	5259.140	0.104954	6.299748 uW/MHz	PASS
	5260.0 to 5266.7	5260.153	0.100925	5.064809 uW/MHz	PASS
	5266.7 to 26000.0	5284.841	0.022909	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 48 (5240 MHz)			
V_{normal}	30.0 to 1000.0	960.472	0.003819	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	4977.355	0.016558	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5148.811	0.085114	5 uW/MHz	PASS
	5250.0 to 5250.2	5250.036	102.590421	575.721011 uW/MHz	PASS(1)
	5250.2 to 5251.0	5250.224	43.714803	199.011763 uW/MHz	PASS(2)
	5251.0 to 5260.0	5251.003	2.620156	33.312872 uW/MHz	PASS(3)
	5260.0 to 5266.7	5260.340	0.251768	4.810356 uW/MHz	PASS
	5266.7 to 26000.0	5269.291	0.048865	0.833333 uW/MHz	PASS

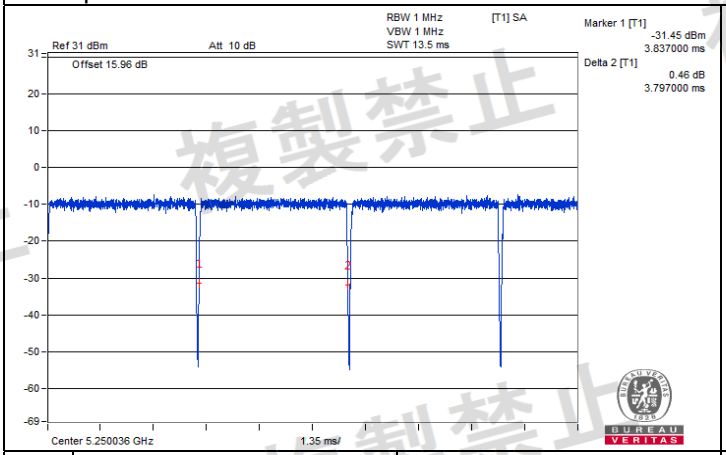
NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

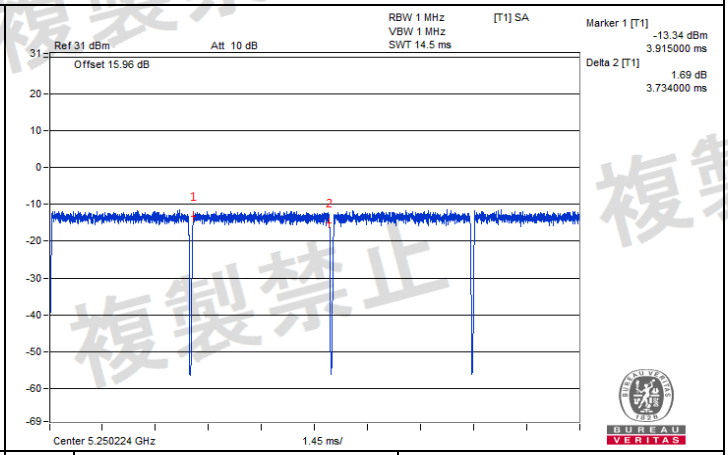
複製禁止

Measuring Mode *Zero Span

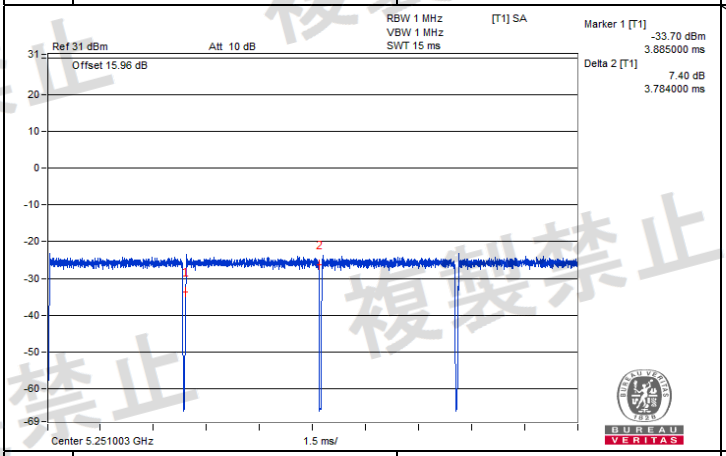
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5250.036MHz	P = 102.590421uW/MHz



2	5250.224MHz	P = 43.714803uW/MHz



3	5251.003MHz	P = 2.620156uW/MHz

802.11ax (HE20) Chain 1 W52

TEST CHANNEL		CH 36 (5180 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	750.831	0.003459	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	5135.269	0.031333	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5148.687	0.406443	5 uW/MHz	PASS
	5250.0 to 5250.2	5250.177	0.072778	242.22116 uW/MHz	PASS
	5250.2 to 5251.0	5250.598	0.07709	84.116026 uW/MHz	PASS
	5251.0 to 5260.0	5255.352	0.100462	13.678369 uW/MHz	PASS
	5260.0 to 5266.7	5264.268	0.123595	1.629126 uW/MHz	PASS
	5266.7 to 26000.0	5297.799	0.019543	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 48 (5240 MHz)			
V_{normal}	30.0 to 1000.0	476.927	0.003119	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	5088.671	0.018707	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5147.190	0.093111	5 uW/MHz	PASS
	5250.0 to 5250.2	5250.000	172.517752	718.144897 uW/MHz	PASS(1)
	5250.2 to 5251.0	5250.200	70.954247	210.319115 uW/MHz	PASS(2)
	5251.0 to 5260.0	5251.003	3.897198	33.312872 uW/MHz	PASS(3)
	5260.0 to 5266.7	5260.714	0.321366	4.339158 uW/MHz	PASS
	5266.7 to 26000.0	5269.291	0.07145	0.833333 uW/MHz	PASS

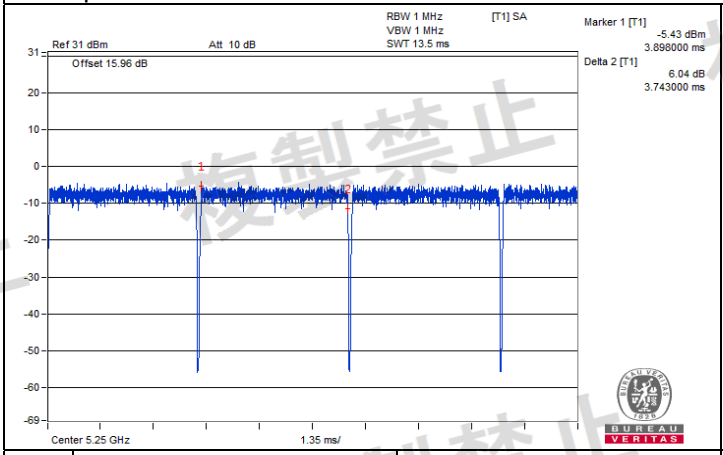
NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

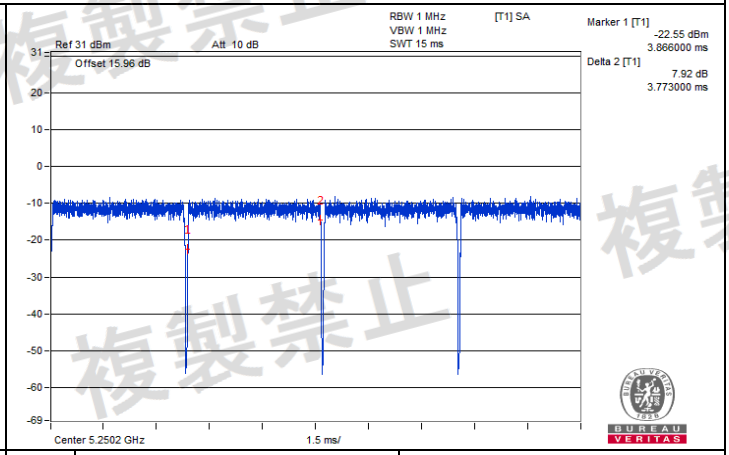
複製禁止

Measuring Mode *Zero Span

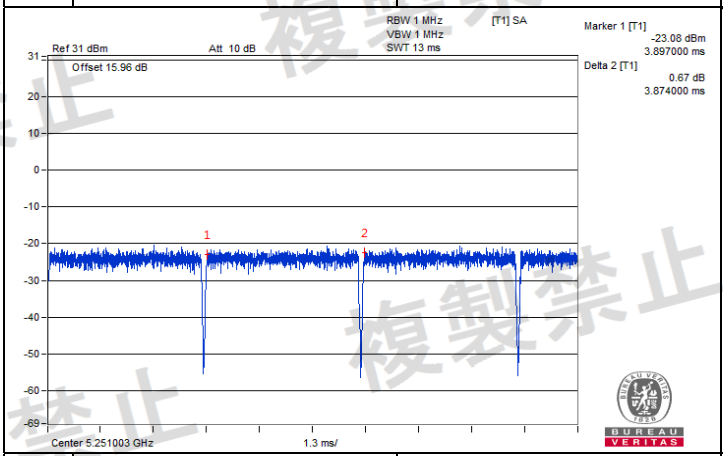
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5250.000MHz	P = 172.517752uW/MHz



2	5250.200MHz	P = 70.954247uW/MHz



3	5251.003MHz	P = 3.897198uW/MHz

802.11ax (HE20) Chain 2 W52

TEST CHANNEL		CH 36 (5180 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	525.427	0.00389	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	5140.446	0.030339	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5143.823	0.127644	5 uW/MHz	PASS
	5250.0 to 5250.2	5250.005	0.057148	696.432044 uW/MHz	PASS
	5250.2 to 5251.0	5250.411	0.06368	129.383456 uW/MHz	PASS
	5251.0 to 5260.0	5258.111	0.099083	7.776602 uW/MHz	PASS
	5260.0 to 5266.7	5266.325	0.09506	0.924081 uW/MHz	PASS
	5266.7 to 26000.0	5300.391	0.017701	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 48 (5240 MHz)			
V_{normal}	30.0 to 1000.0	645.465	0.003076	0.083333 uW/100kHz	PASS
	1000.0 to 5142.0	5120.772	0.02729	0.833333 uW/MHz	PASS
	5142.0 to 5150.0	5145.507	0.102329	5 uW/MHz	PASS
	5250.0 to 5250.2	5250.052	124.91232	521.849669 uW/MHz	PASS(1)
	5250.2 to 5251.0	5250.200	61.424899	210.319115 uW/MHz	PASS(2)
	5251.0 to 5260.0	5251.018	3.328643	33.210755 uW/MHz	PASS(3)
	5260.0 to 5266.7	5262.210	0.233884	2.872888 uW/MHz	PASS
	5266.7 to 26000.0	5269.291	0.040272	0.833333 uW/MHz	PASS

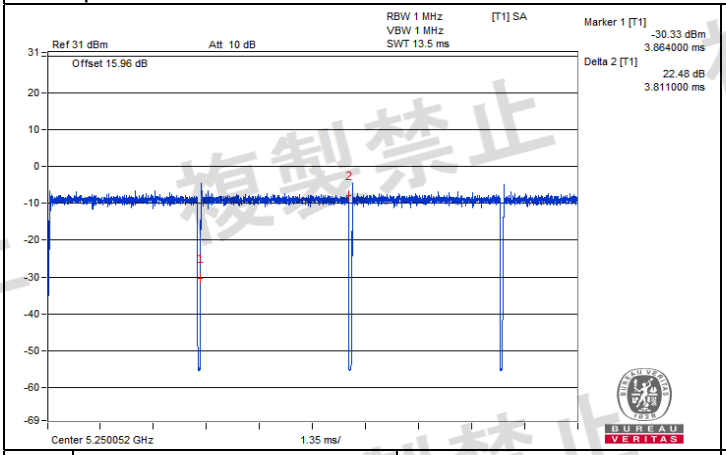
NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

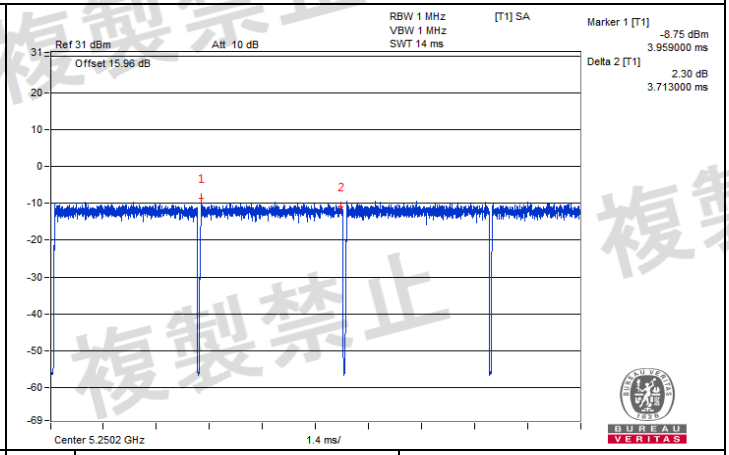
複製禁止

Measuring Mode *Zero Span

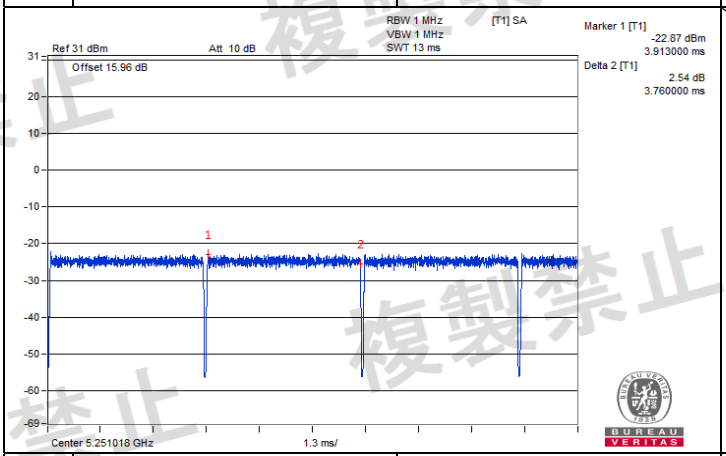
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5250.052MHz	P = 124.91232uW/MHz



2	5250.200MHz	P = 61.424899uW/MHz

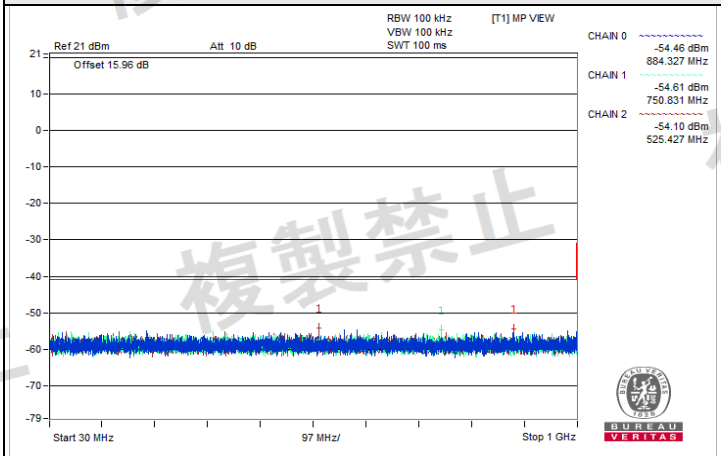


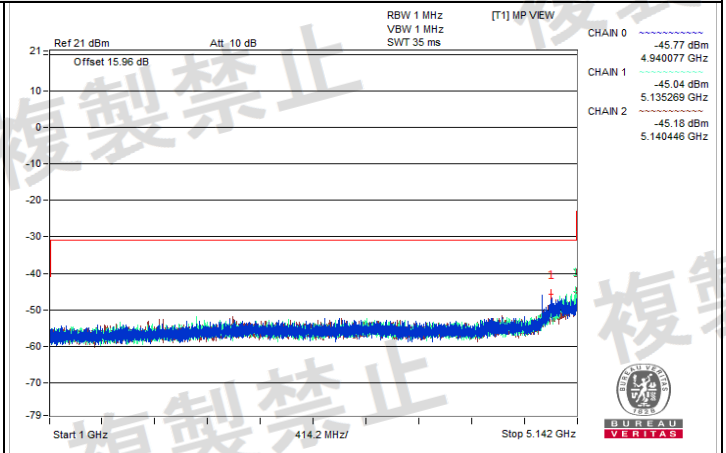
3	5251.018MHz	P = 3.328643uW/MHz

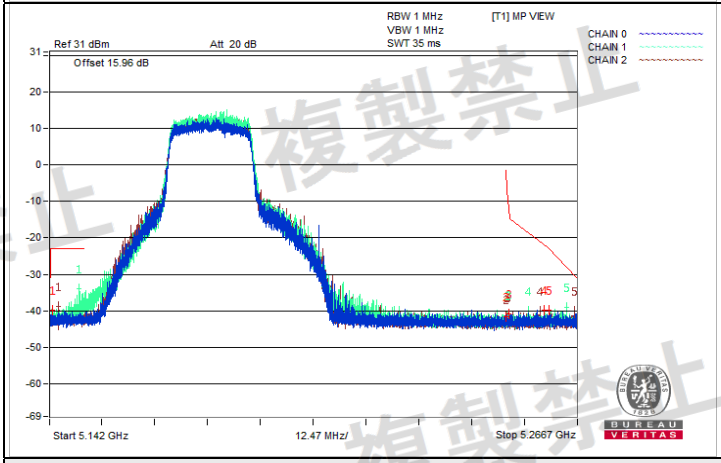
複製禁止

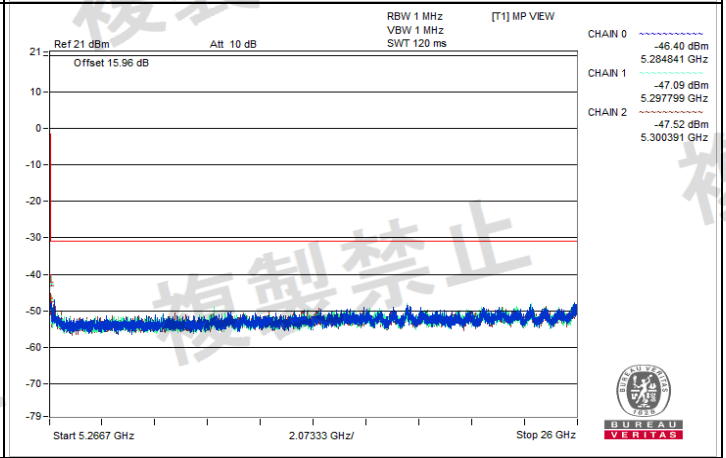
802.11ax (HE20) Graph W52

Vnormal



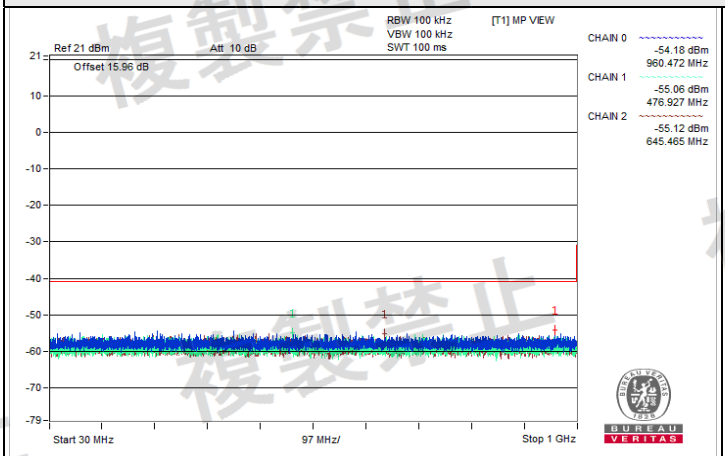


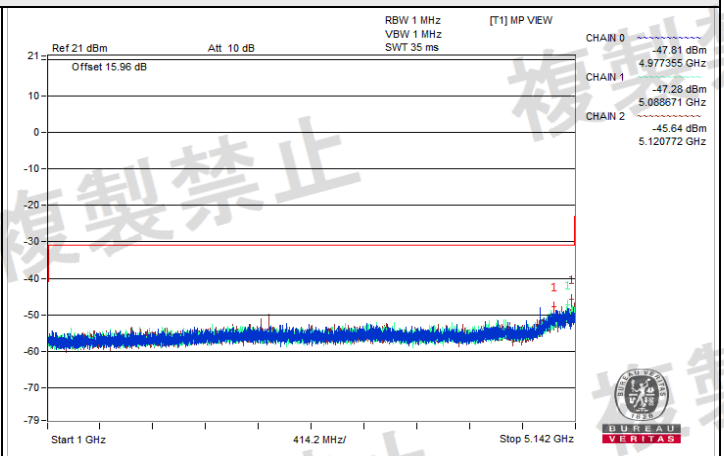


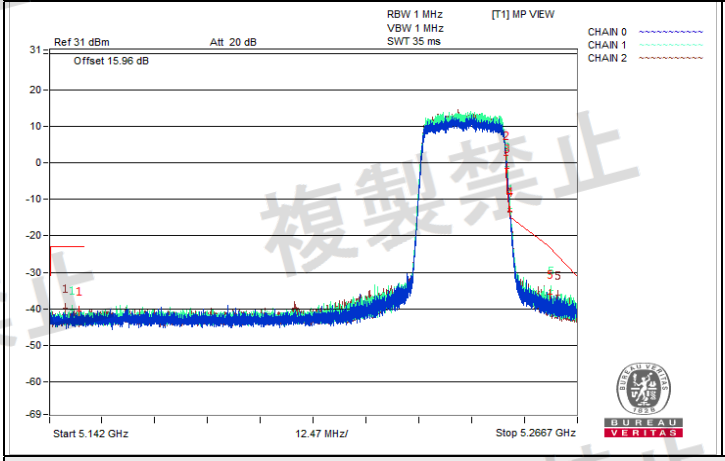


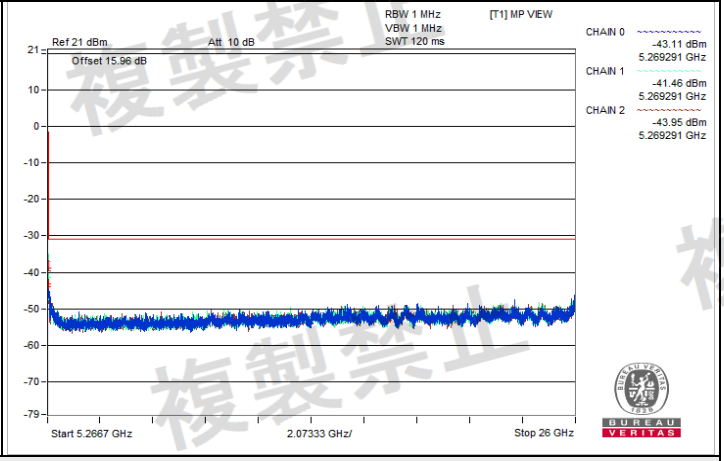
CH 36 (5180 MHz)

Vnormal









CH 48 (5240 MHz)

802.11ax (HE20) [Worst result] x [Number of antenna ports] W52

TEST CHANNEL		CH 36 (5180 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.011670	0.25uW/100kHz	PASS
	1000.0 to 5142.0	0.093999	2.5uW/MHz	PASS
	5142.0 to 5150.0	1.219329	15uW/MHz	PASS
	5250.0 to 5250.2	0.218334	726.66348uW/MHz	PASS
	5250.2 to 5251.0	0.251259	218.77616uW/MHz	PASS
	5251.0 to 5260.0	0.314862	18.89924uW/MHz	PASS
	5260.0 to 5266.7	0.370785	4.88738uW/MHz	PASS
	5266.7 to 26000.0	0.068727	2.5uW/MHz	PASS
TEST CHANNEL		CH 48 (5240 MHz)		
V_{normal}	30.0 to 1000.0	0.011457	0.25uW/100kHz	PASS
	1000.0 to 5142.0	0.081870	2.5uW/MHz	PASS
	5142.0 to 5150.0	0.306987	15uW/MHz	PASS
	5250.0 to 5250.2	517.553256	2154.43469uW/MHz	PASS
	5250.2 to 5251.0	212.862741	630.95735uW/MHz	PASS
	5251.0 to 5260.0	11.691594	99.93862uW/MHz	PASS
	5260.0 to 5266.7	0.964098	13.01747uW/MHz	PASS
	5266.7 to 26000.0	0.214350	2.5uW/MHz	PASS

802.11ax (HE20) Chain 0 W53

TEST CHANNEL		CH 52 (5260 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	75.832	0.003784	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	5232.241	0.042073	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5235.984	0.243781	1.746311 uW/MHz	PASS
	5240.0 to 5249.0	5248.908	3.548659	32.711538 uW/MHz	PASS(1)
	5249.0 to 5249.8	5249.623	42.735155	139.919662 uW/MHz	PASS(2)
	5249.8 to 5250.0	5250.000	144.941562	718.144897 uW/MHz	PASS(3)
	5350.0 to 26000.0	5360.325	0.017179	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 64 (5320 MHz)			
V_{normal}	30.0 to 1000.0	790.722	0.003631	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	4873.998	0.032584	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5237.238	0.084333	2.467394 uW/MHz	PASS
	5240.0 to 5249.0	5240.345	0.0877	5.669509 uW/MHz	PASS
	5249.0 to 5249.8	5249.740	0.064121	183.180292 uW/MHz	PASS
	5249.8 to 5250.0	5249.885	0.07145	354.442191 uW/MHz	PASS
	5350.0 to 26000.0	5375.812	0.022909	0.833333 uW/MHz	PASS

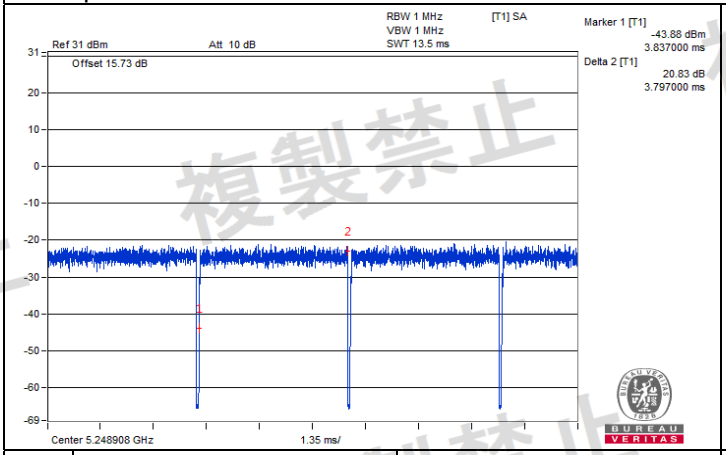
NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

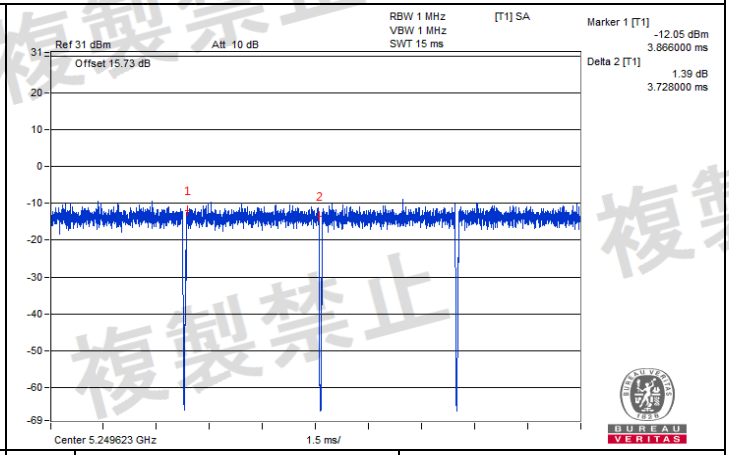
複製禁止

Measuring Mode *Zero Span

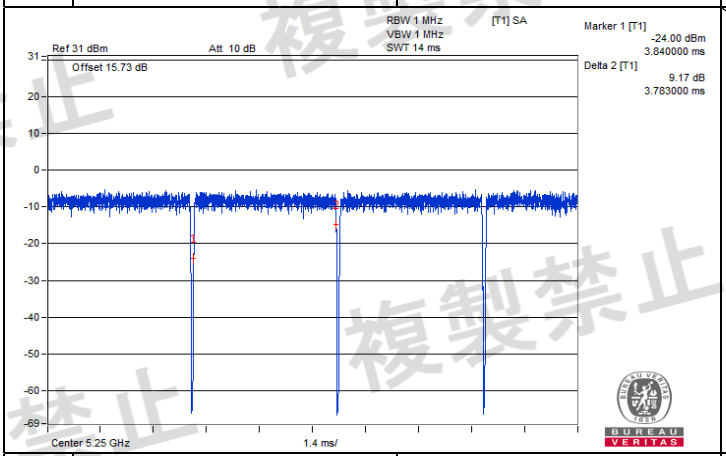
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5248.908MHz	P = 3.548659uW/MHz



2	5249.623MHz	P = 42.735155uW/MHz



3	5250.000MHz	P = 144.941562uW/MHz

802.11ax (HE20) Chain 1 W53

TEST CHANNEL		CH 52 (5260 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	56.190	0.003548	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	5233.300	0.109648	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5239.674	0.41783	4.828955 uW/MHz	PASS
	5240.0 to 5249.0	5248.937	5.37402	32.906277 uW/MHz	PASS(1)
	5249.0 to 5249.8	5249.740	90.769111	183.180292 uW/MHz	PASS(2)
	5249.8 to 5250.0	5250.000	206.310982	718.144897 uW/MHz	PASS(3)
	5350.0 to 26000.0	25873.518	0.015171	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 64 (5320 MHz)			
V_{normal}	30.0 to 1000.0	336.520	0.003715	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	5233.300	0.022336	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5239.937	0.102565	5.192028 uW/MHz	PASS
	5240.0 to 5249.0	5243.438	0.094406	10.677725 uW/MHz	PASS
	5249.0 to 5249.8	5249.346	0.073961	73.939881 uW/MHz	PASS
	5249.8 to 5250.0	5249.988	0.062517	667.13247 uW/MHz	PASS
	5350.0 to 26000.0	5350.000	0.024044	0.833333 uW/MHz	PASS

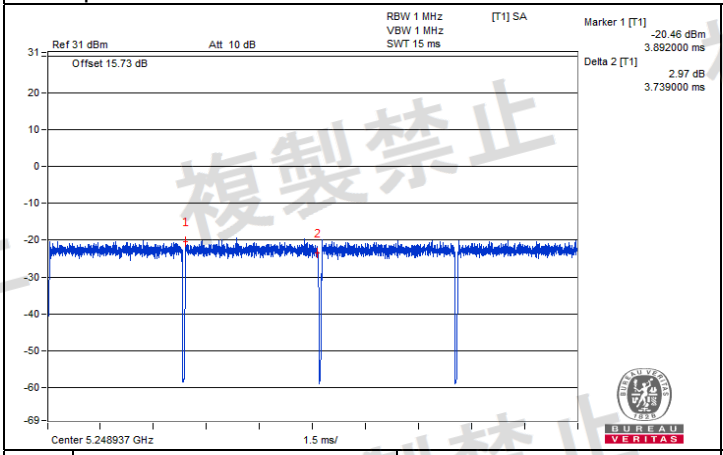
NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

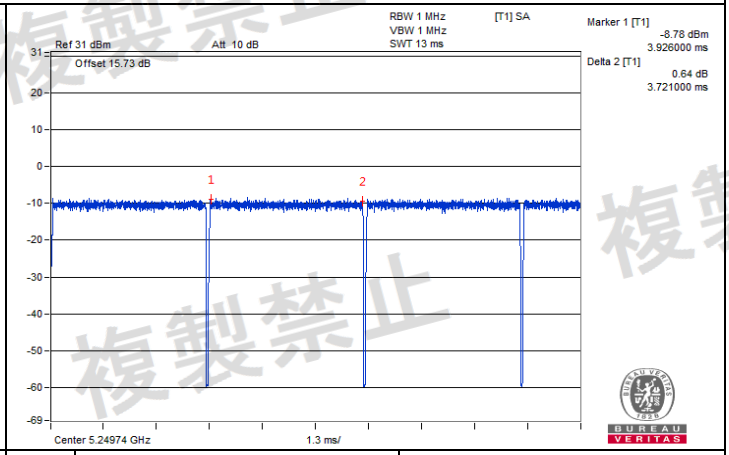
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Measuring Mode *Zero Span

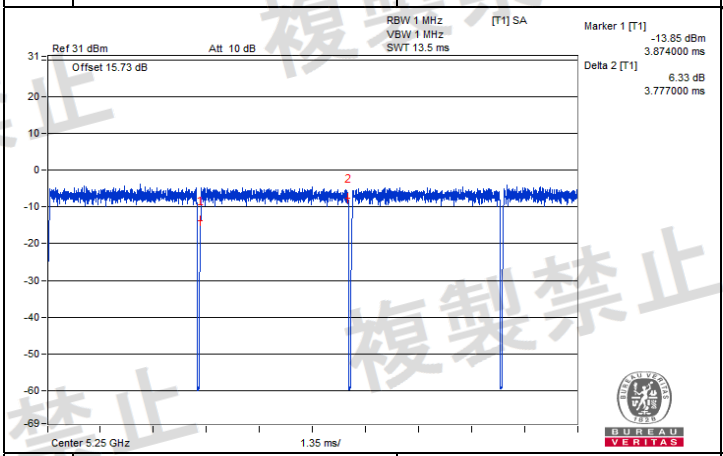
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5248.937MHz	P = 5.37402uW/MHz



2	5249.740MHz	P = 90.769111uW/MHz



3	5250.000MHz	P = 206.310982uW/MHz

802.11ax (HE20) Chain 2 W53

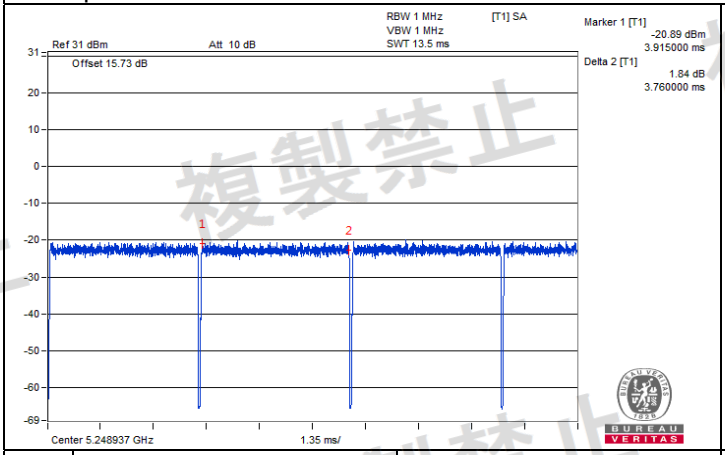
TEST CHANNEL		CH 52 (5260 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	727.551	0.004426	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	5220.600	0.029444	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5239.981	0.353997	5.255381 uW/MHz	PASS
	5240.0 to 5249.0	5248.937	5.355067	32.906277 uW/MHz	PASS(1)
	5249.0 to 5249.8	5249.740	83.370588	183.180292 uW/MHz	PASS(2)
	5249.8 to 5250.0	5249.988	182.032599	667.13247 uW/MHz	PASS(3)
	5350.0 to 26000.0	5378.393	0.024491	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 64 (5320 MHz)			
V_{normal}	30.0 to 1000.0	226.667	0.003192	0.083333 uW/100kHz	PASS
	1000.0 to 5233.3	5222.187	0.027861	0.833333 uW/MHz	PASS
	5233.3 to 5240.0	5236.042	0.089331	1.774454 uW/MHz	PASS
	5240.0 to 5249.0	5240.141	0.105439	5.43766 uW/MHz	PASS
	5249.0 to 5249.8	5249.608	0.076208	135.169512 uW/MHz	PASS
	5249.8 to 5250.0	5249.827	0.072946	248.243992 uW/MHz	PASS
	5350.0 to 26000.0	5440.343	0.030761	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

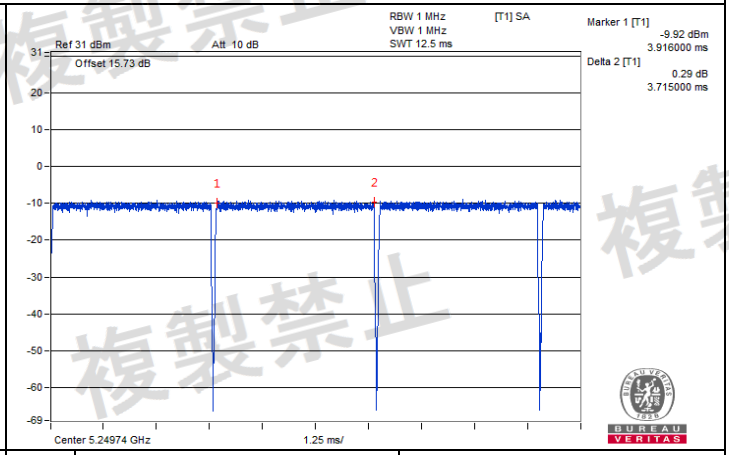
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

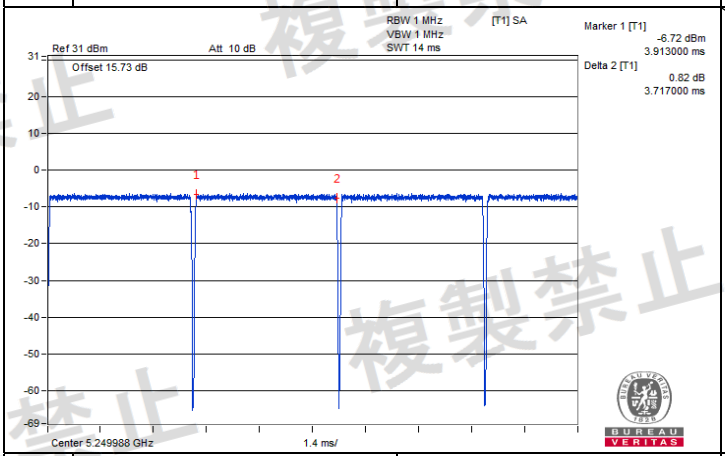
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5248.937MHz	P = 5.355067uW/MHz



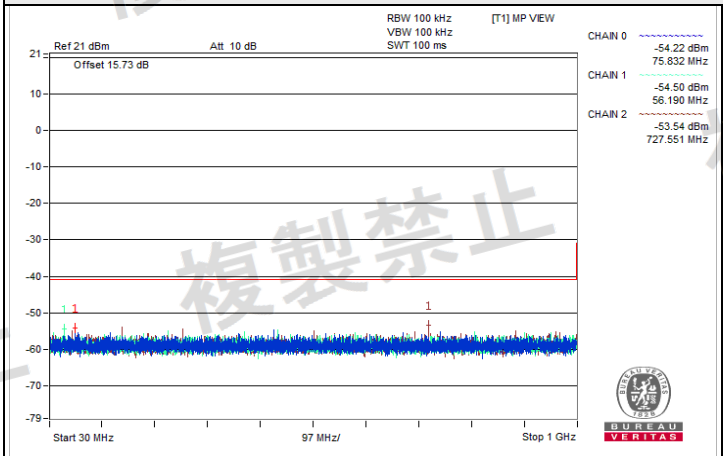
2	5249.740MHz	P = 83.370588uW/MHz

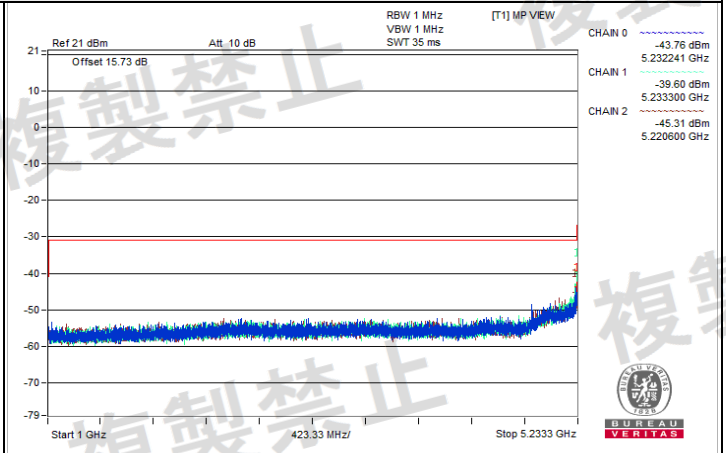


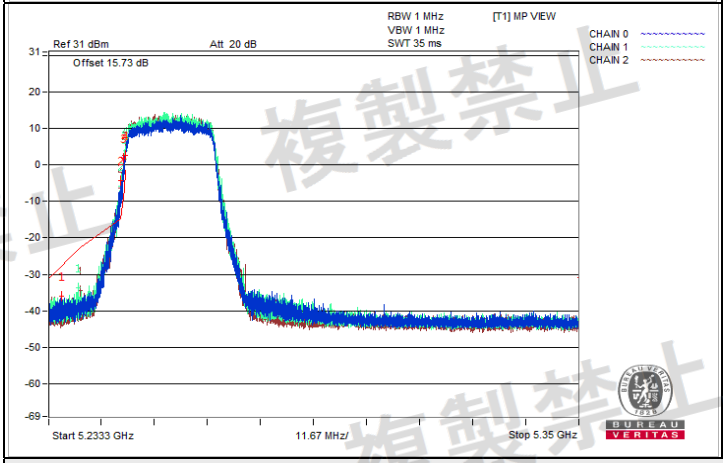
3	5249.988MHz	P = 182.032599uW/MHz

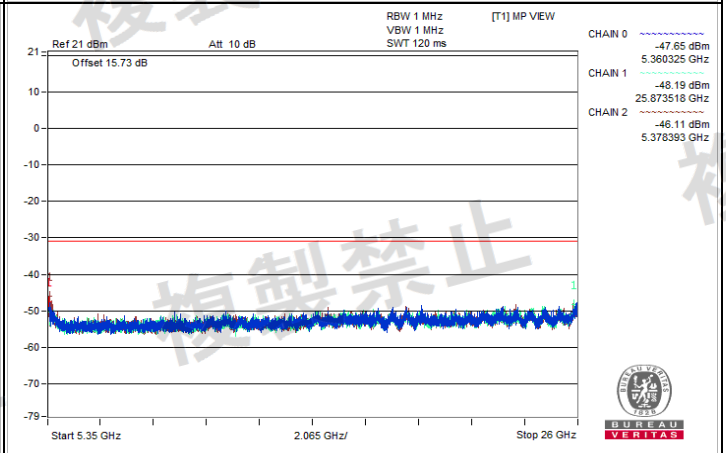
802.11ax (HE20) Graph W53

Vnormal



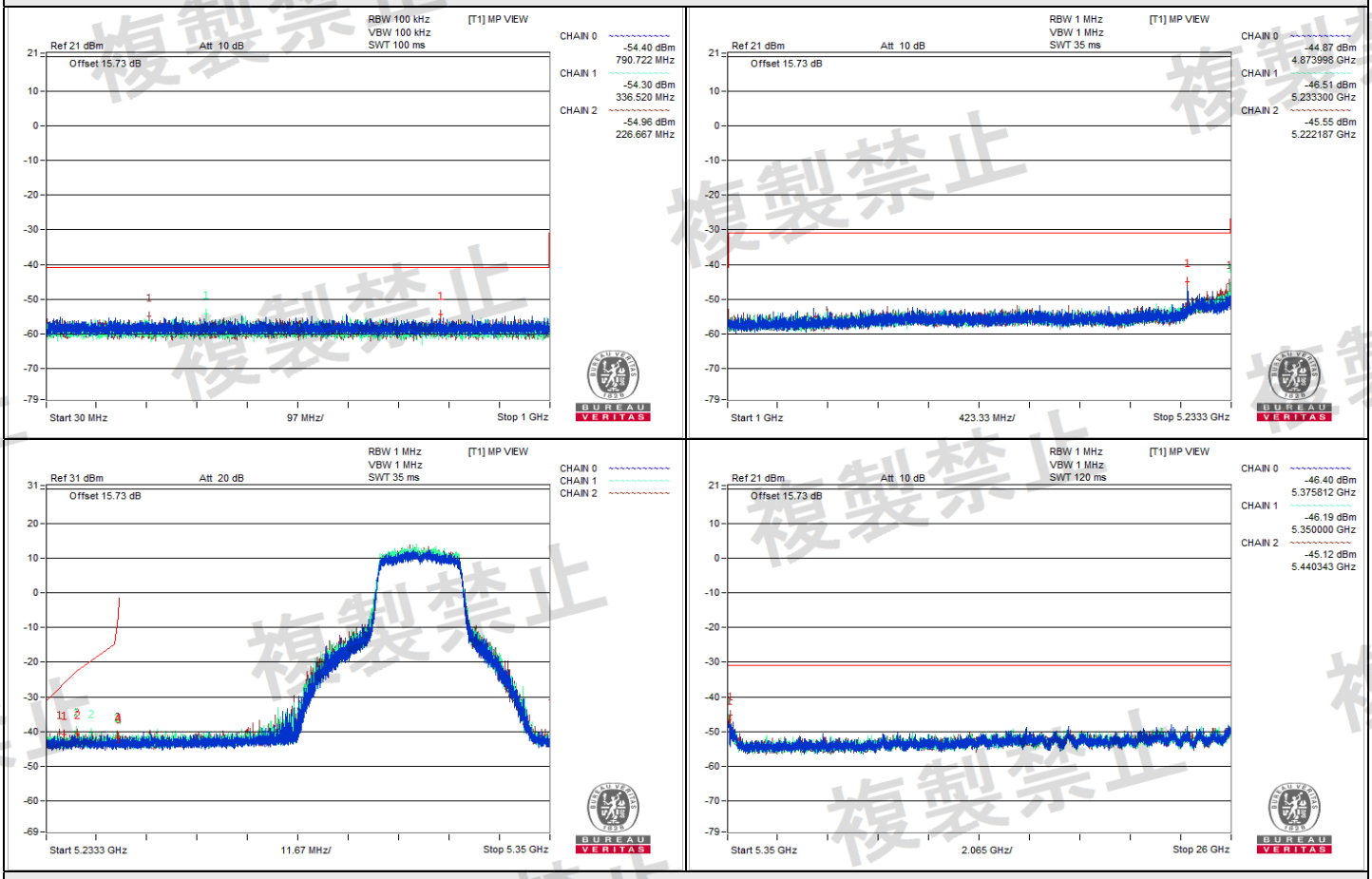






CH 52 (5260 MHz)

Vnormal



CH 64 (5320 MHz)

802.11ax (HE20) [Worst result] x [Number of antenna ports] W53

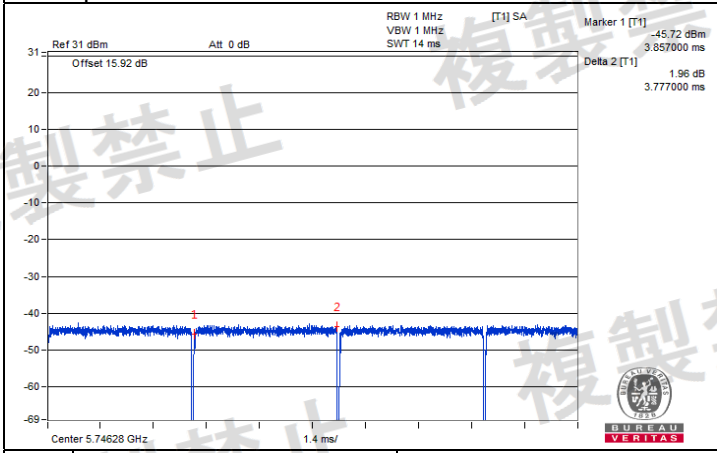
TEST CHANNEL		CH 52 (5260 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.013278	0.25uW/100kHz	PASS
	1000.0 to 5233.3	0.328944	2.5uW/MHz	PASS
	5233.3 to 5240.0	1.253490	14.48686uW/MHz	PASS
	5240.0 to 5249.0	16.122060	98.71883uW/MHz	PASS
	5249.0 to 5249.8	272.307333	549.54088uW/MHz	PASS
	5249.8 to 5250.0	618.932946	2154.43469uW/MHz	PASS
	5350.0 to 26000.0	0.073473	2.5uW/MHz	PASS
TEST CHANNEL		CH 64 (5320 MHz)		
V_{normal}	30.0 to 1000.0	0.011145	0.25uW/100kHz	PASS
	1000.0 to 5233.3	0.097752	2.5uW/MHz	PASS
	5233.3 to 5240.0	0.307695	15.57608uW/MHz	PASS
	5240.0 to 5249.0	0.316317	16.31298uW/MHz	PASS
	5249.0 to 5249.8	0.228624	405.50854uW/MHz	PASS
	5249.8 to 5250.0	0.218838	744.73198uW/MHz	PASS
	5350.0 to 26000.0	0.092283	2.5uW/MHz	PASS

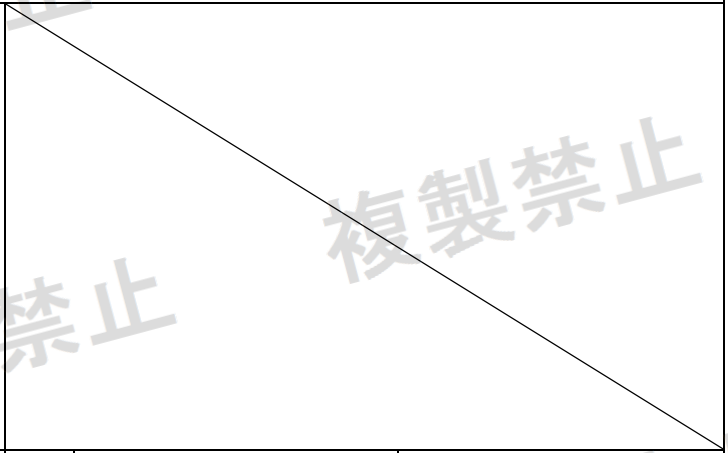
802.11ax (HE20) Chain 0 W56

TEST CHANNEL		CH 100 (5500 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	649.223	0.004446	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5426.550	0.105682	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5465.108	0.179473	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5747.653	0.082224	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	25954.471	0.015596	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 120 (5600 MHz)			
V_{normal}	30.0 to 1000.0	39.336	0.003199	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5459.442	0.02355	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5469.455	0.074473	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5746.890	0.096605	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	5838.351	0.033113	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 144 (5720 MHz)			
V_{normal}	30.0 to 1000.0	83.350	0.003639	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5397.560	0.014791	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5460.228	0.062951	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5746.280	0.032964	4.166667 uW/MHz	PASS(1)
	5765.0 to 26000.0	5767.529	0.124738	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point. 2. Regarding the all data value, it transforms the “dBm” value into “uW” value. 3. It adds the all values and calculates a grand total. Define a grand total as “P”. 4. It divides “P” by sample data point (ex.501) and calculates the mean value. 5. It reports the mean value.





1	5746.280MHz	P = 0.032964uW/MHz			

802.11ax (HE20) Chain 1 W56

TEST CHANNEL		CH 100 (5500 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	202.902	0.004198	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5460.000	0.102094	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5460.038	0.177828	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5747.615	0.074817	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	25822.943	0.018197	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 120 (5600 MHz)			
V_{normal}	30.0 to 1000.0	448.312	0.002992	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5455.540	0.032584	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5464.346	0.084723	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5763.093	0.110917	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	11195.568	0.031915	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 144 (5720 MHz)			
V_{normal}	30.0 to 1000.0	823.945	0.00335	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5454.982	0.017179	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5462.287	0.096828	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5745.060	1.396368	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	5772.588	0.150314	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

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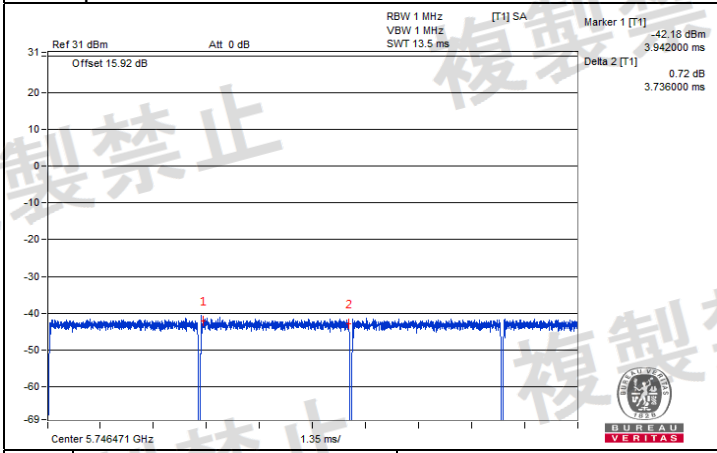
802.11ax (HE20) Chain 2 W56

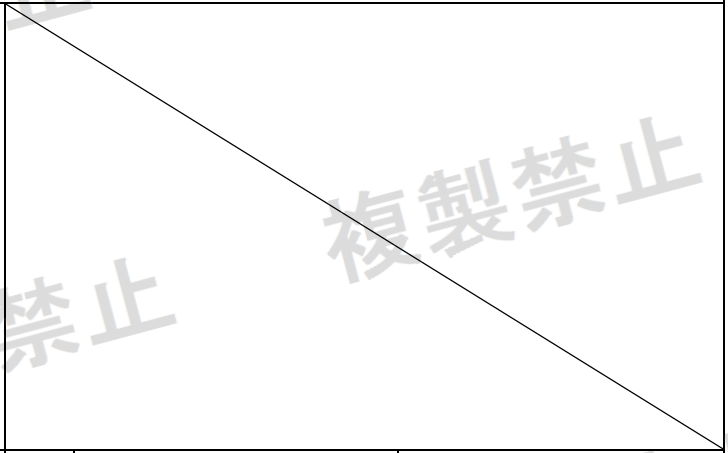
TEST CHANNEL		CH 100 (5500 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	955.986	0.003606	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5460.000	0.143219	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5460.266	0.212814	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5750.207	0.084528	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	5780.176	0.029648	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 120 (5600 MHz)			
V_{normal}	30.0 to 1000.0	75.832	0.003243	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5400.347	0.054828	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5464.841	0.125893	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5752.113	0.12388	4.166667 uW/MHz	PASS
	5765.0 to 26000.0	11198.097	0.060814	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 144 (5720 MHz)			
V_{normal}	30.0 to 1000.0	37.881	0.00309	0.083333 uW/100kHz	PASS
	1000.0 to 5460.0	5441.045	0.027606	0.833333 uW/MHz	PASS
	5460.0 to 5470.0	5469.683	0.069823	4.166667 uW/MHz	PASS
	5745.0 to 5765.0	5746.471	0.047908	4.166667 uW/MHz	PASS(1)
	5765.0 to 26000.0	5777.646	0.274157	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point. 2. Regarding the all data value, it transforms the “dBm” value into “uW” value. 3. It adds the all values and calculates a grand total. Define a grand total as “P”. 4. It divides “P” by sample data point (ex.501) and calculates the mean value. 5. It reports the mean value.

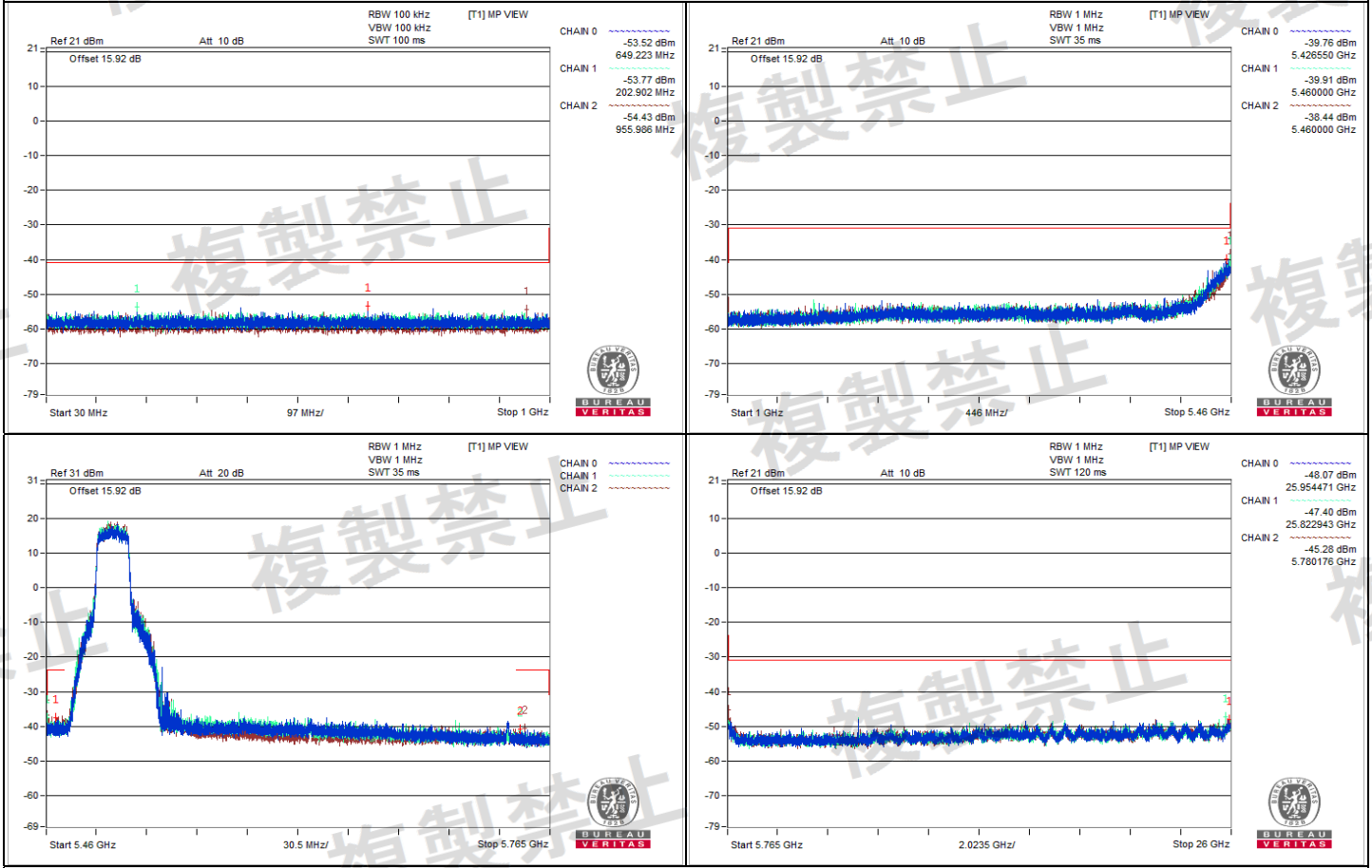




1	5746.471MHz	P = 0.047908uW/MHz			

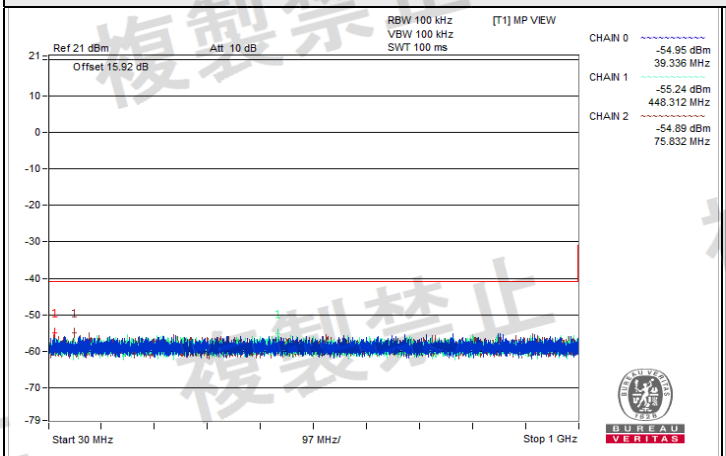
802.11ax (HE20) Graph W56

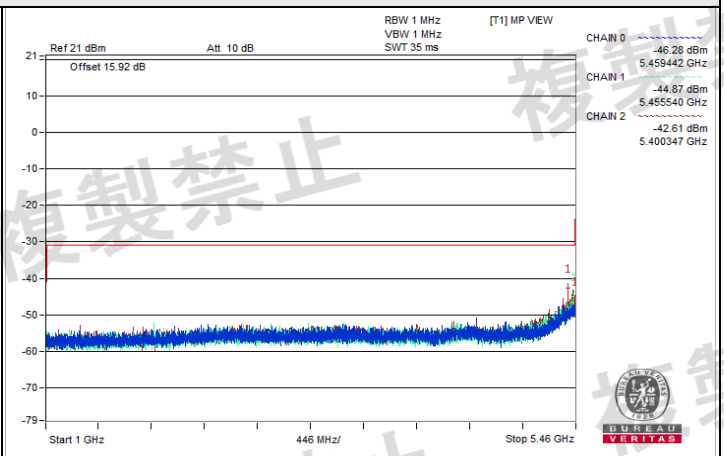
Vnormal

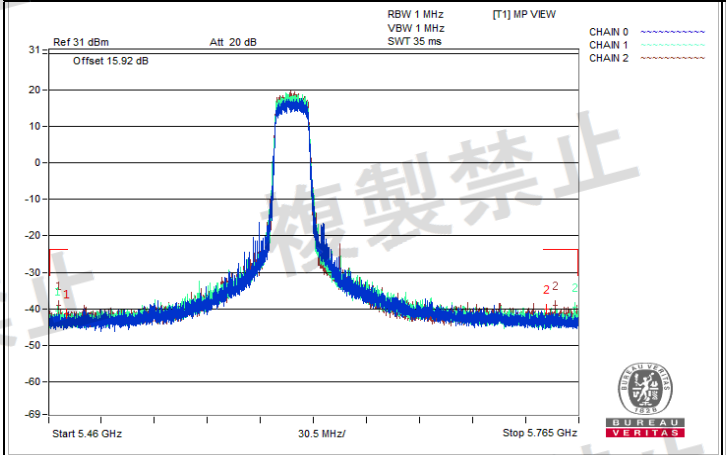


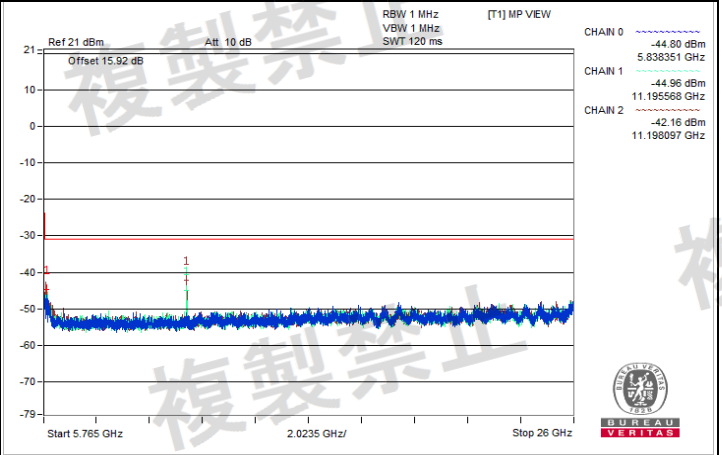
CH 100 (5500 MHz)

Vnormal



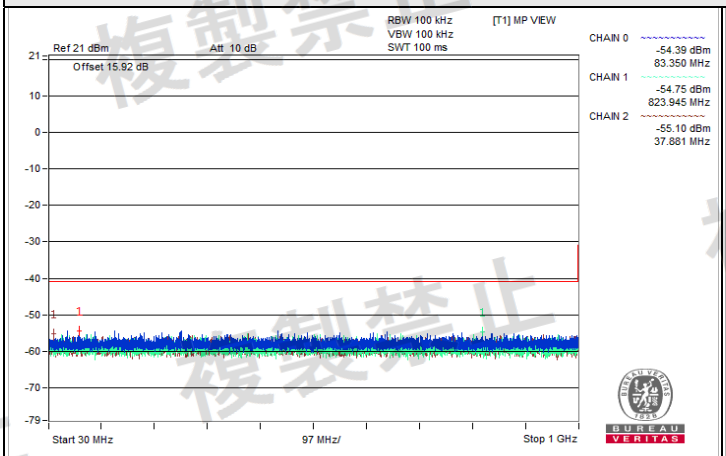


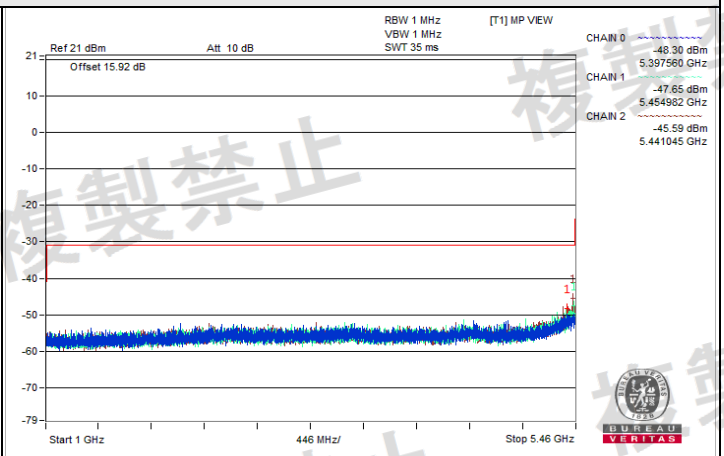


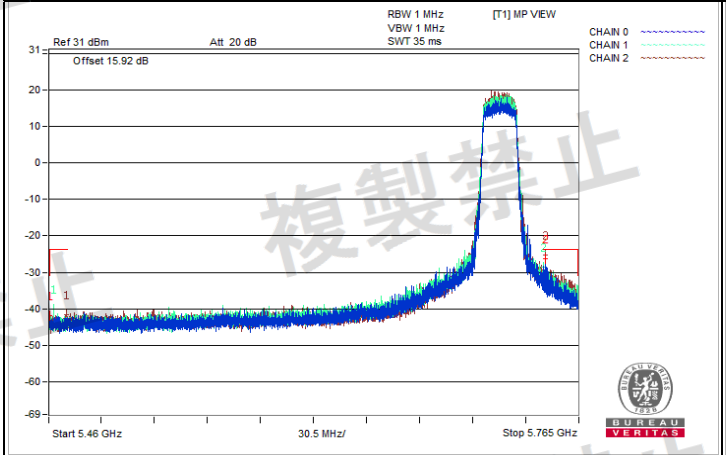


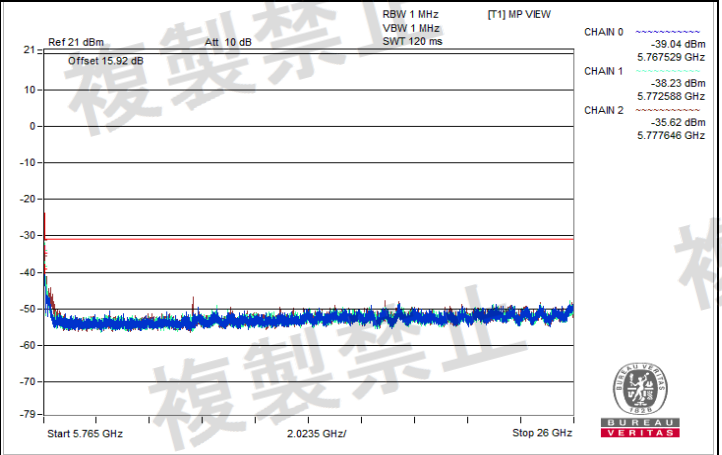
CH 120 (5600 MHz)

Vnormal









CH 144 (5720 MHz)

802.11ax (HE20) [Worst result] x [Number of antenna ports] W56

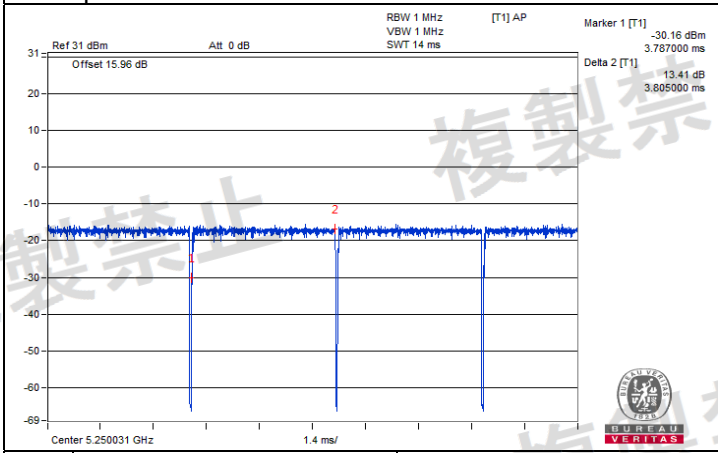
TEST CHANNEL		CH 100 (5500 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.013338	0.25uW/100kHz	PASS
	1000.0 to 5460.0	0.429657	2.5uW/MHz	PASS
	5460.0 to 5470.0	0.638442	12.5uW/MHz	PASS
	5745.0 to 5765.0	0.253584	12.5uW/MHz	PASS
	5765.0 to 26000.0	0.088944	2.5uW/MHz	PASS
TEST CHANNEL		CH 120 (5600 MHz)		
V_{normal}	30.0 to 1000.0	0.009729	0.25uW/100kHz	PASS
	1000.0 to 5460.0	0.164484	2.5uW/MHz	PASS
	5460.0 to 5470.0	0.377679	12.5uW/MHz	PASS
	5745.0 to 5765.0	0.371640	12.5uW/MHz	PASS
	5765.0 to 26000.0	0.182442	2.5uW/MHz	PASS
TEST CHANNEL		CH 144 (5720 MHz)		
V_{normal}	30.0 to 1000.0	0.010917	0.25uW/100kHz	PASS
	1000.0 to 5460.0	0.082818	2.5uW/MHz	PASS
	5460.0 to 5470.0	0.290484	12.5uW/MHz	PASS
	5745.0 to 5765.0	4.189104	12.5uW/MHz	PASS
	5765.0 to 26000.0	0.822471	2.5uW/MHz	PASS

802.11ax (HE40) Chain 0 W52

TEST CHANNEL		CH 38 (5190 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	713.607	0.003606	0.083333 uW/100kHz	PASS
	1000.0 to 5141.6	4950.568	0.028907	0.833333 uW/MHz	PASS
	5141.6 to 5150.0	5143.566	0.103753	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.817	0.070307	25.400879 uW/MHz	PASS
	5251.0 to 5270.0	5262.890	0.111686	5.262804 uW/MHz	PASS
	5270.0 to 5278.4	5272.141	0.080538	1.968547 uW/MHz	PASS
	5278.4 to 26000.0	5304.302	0.020045	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 46 (5230 MHz)			
V_{normal}	30.0 to 1000.0	455.466	0.003793	0.083333 uW/100kHz	PASS
	1000.0 to 5141.6	4873.949	0.017498	0.833333 uW/MHz	PASS
	5141.6 to 5150.0	5148.440	0.093972	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.031	18.386712	155.184646 uW/MHz	PASS(1)
	5251.0 to 5270.0	5251.125	2.349633	16.465904 uW/MHz	PASS
	5270.0 to 5278.4	5272.996	0.113763	1.750443 uW/MHz	PASS
	5278.4 to 26000.0	5296.531	0.02023	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



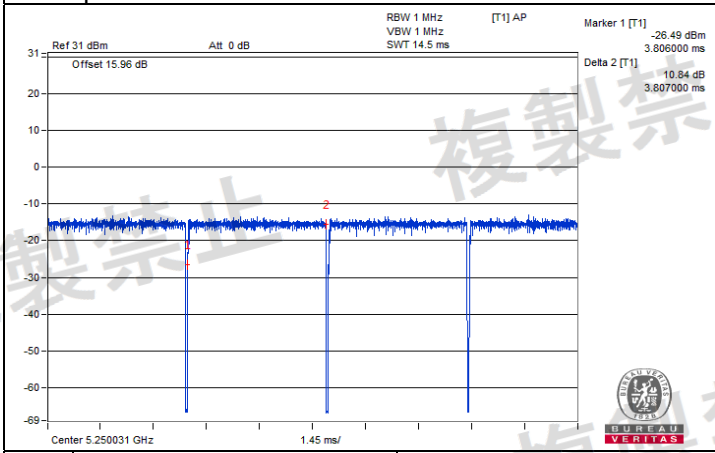
1	5250.031MHz	P = 18.386712uW/MHz			

802.11ax (HE40) Chain 1 W52

TEST CHANNEL		CH 38 (5190 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	969.202	0.003319	0.083333 uW/100kHz	PASS
	1000.0 to 5141.6	5003.374	0.021429	0.833333 uW/MHz	PASS
	5141.6 to 5150.0	5149.517	0.159956	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.219	0.089125	100.658105 uW/MHz	PASS
	5251.0 to 5270.0	5253.468	0.101391	13.119974 uW/MHz	PASS
	5270.0 to 5278.4	5278.006	0.09247	0.879669 uW/MHz	PASS
	5278.4 to 26000.0	5309.482	0.019187	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 46 (5230 MHz)			
V_{normal}	30.0 to 1000.0	825.400	0.003327	0.083333 uW/100kHz	PASS
	1000.0 to 5141.6	5071.192	0.015959	0.833333 uW/MHz	PASS
	5141.6 to 5150.0	5145.840	0.096605	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.031	28.461879	155.184646 uW/MHz	PASS(1)
	5251.0 to 5270.0	5251.005	3.723917	16.658589 uW/MHz	PASS
	5270.0 to 5278.4	5271.731	0.101391	2.082576 uW/MHz	PASS
	5278.4 to 26000.0	5283.580	0.021528	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point. 2. Regarding the all data value, it transforms the “dBm” value into “uW” value. 3. It adds the all values and calculates a grand total. Define a grand total as “P”. 4. It divides “P” by sample data point (ex.501) and calculates the mean value. 5. It reports the mean value.



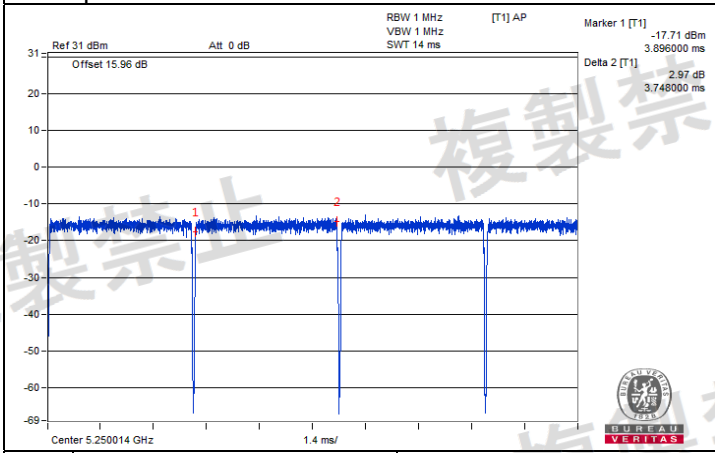
1	5250.031MHz	P = 28.461879uW/MHz			

802.11ax (HE40) Chain 2 W52

TEST CHANNEL		CH 38 (5190 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	896.695	0.007278	0.083333 uW/100kHz	PASS
	1000.0 to 5141.6	5070.157	0.023227	0.833333 uW/MHz	PASS
	5141.6 to 5150.0	5149.996	0.125026	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.356	0.072946	73.425811 uW/MHz	PASS
	5251.0 to 5270.0	5253.382	0.08414	13.229822 uW/MHz	PASS
	5270.0 to 5278.4	5273.697	0.079068	1.589776 uW/MHz	PASS
	5278.4 to 26000.0	22946.154	0.016943	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 46 (5230 MHz)			
V_{normal}	30.0 to 1000.0	896.695	0.007603	0.083333 uW/100kHz	PASS
	1000.0 to 5141.6	5110.538	0.022491	0.833333 uW/MHz	PASS
	5141.6 to 5150.0	5144.318	0.089331	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.014	25.913497	161.379643 uW/MHz	PASS(1)
	5251.0 to 5270.0	5251.005	3.34195	16.658589 uW/MHz	PASS
	5270.0 to 5278.4	5270.003	0.114025	2.640401 uW/MHz	PASS
	5278.4 to 26000.0	25987.049	0.013521	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

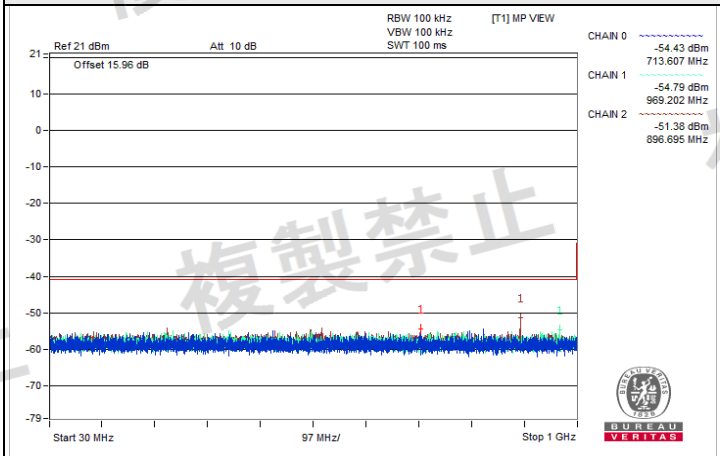
Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point. 2. Regarding the all data value, it transforms the “dBm” value into “uW” value. 3. It adds the all values and calculates a grand total. Define a grand total as “P”. 4. It divides “P” by sample data point (ex.501) and calculates the mean value. 5. It reports the mean value.

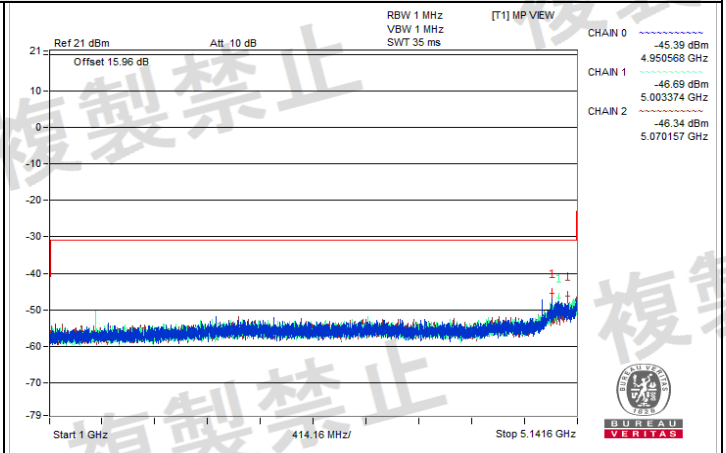


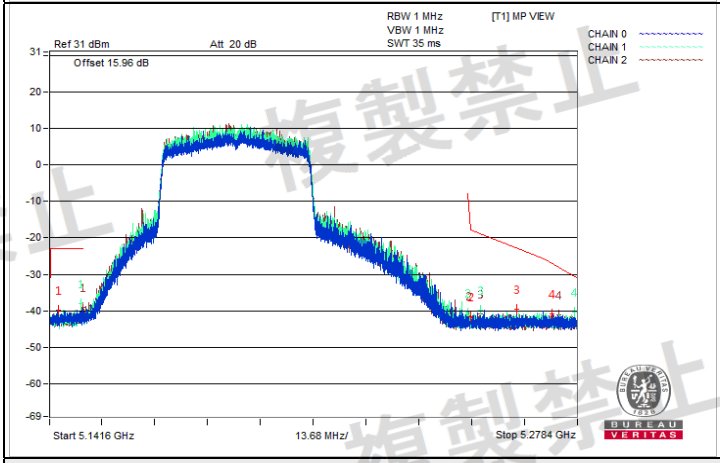
1	5250.014MHz	P = 25.913497uW/MHz			

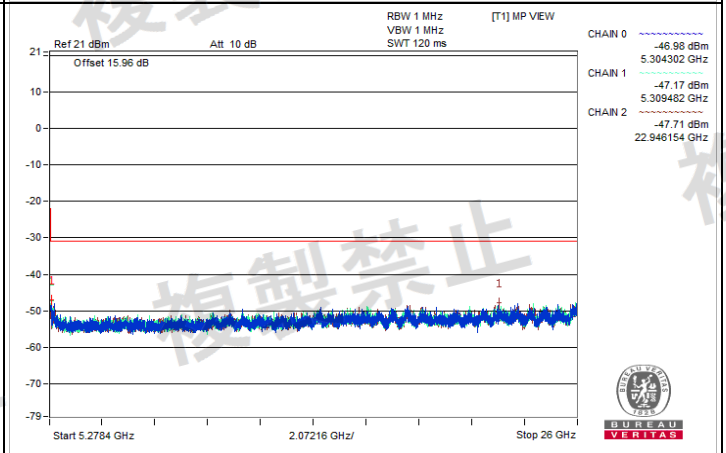
802.11ax (HE40) Graph W52

Vnormal



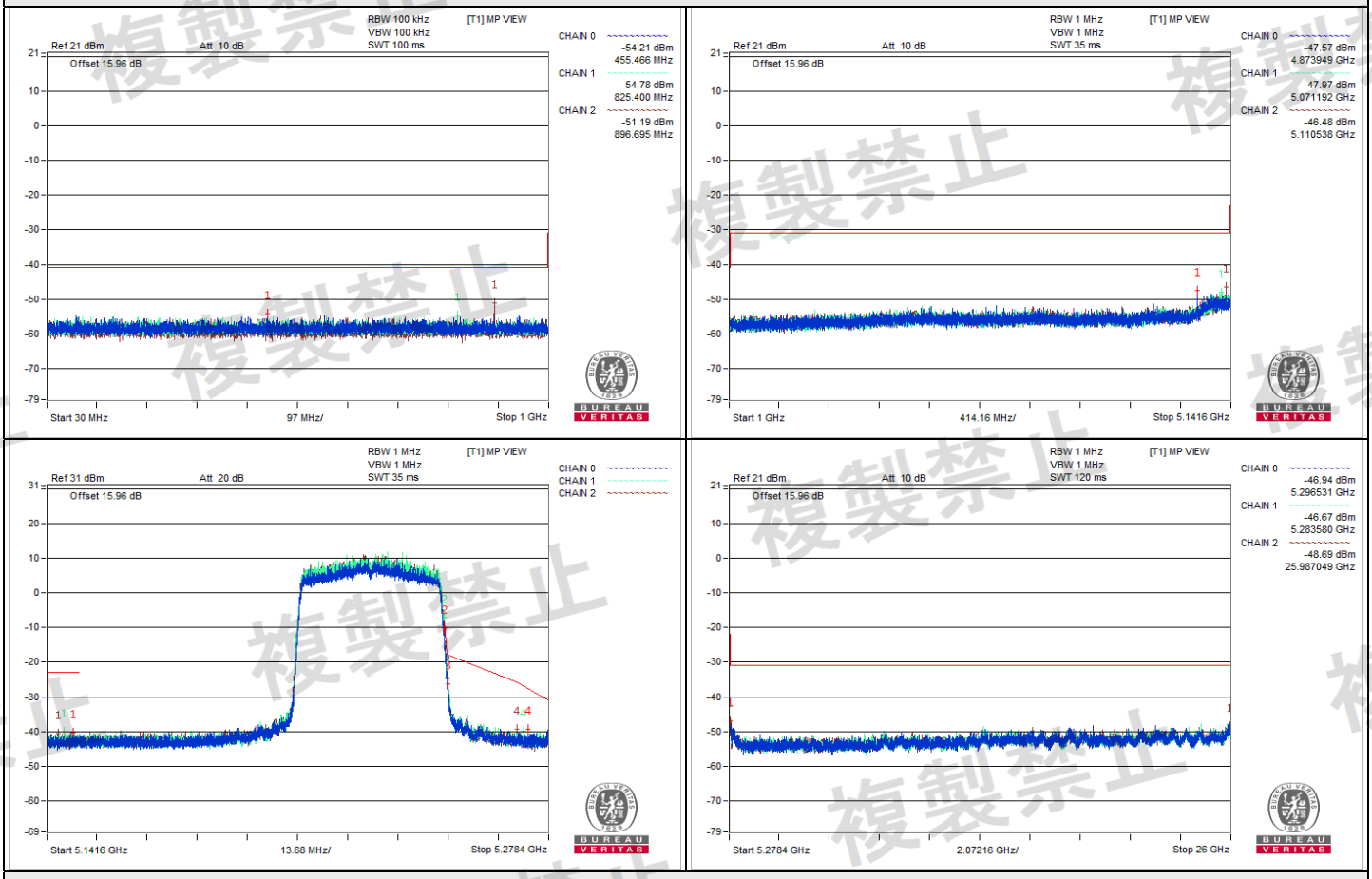






CH 38 (5190 MHz)

Vnormal



CH 46 (5230 MHz)

802.11ax (HE40) [Worst result] x [Number of antenna ports] W52

TEST CHANNEL		CH 38 (5190 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.021834	0.25uW/100kHz	PASS
	1000.0 to 5141.6	0.086721	2.5uW/MHz	PASS
	5141.6 to 5150.0	0.479868	15uW/MHz	PASS
	5250.0 to 5251.0	0.267375	301.97432uW/MHz	PASS
	5251.0 to 5270.0	0.335058	15.78841uW/MHz	PASS
	5270.0 to 5278.4	0.277410	2.63901uW/MHz	PASS
	5278.4 to 26000.0	0.060135	2.5uW/MHz	PASS
TEST CHANNEL		CH 46 (5230 MHz)		
V_{normal}	30.0 to 1000.0	0.022809	0.25uW/100kHz	PASS
	1000.0 to 5141.6	0.067473	2.5uW/MHz	PASS
	5141.6 to 5150.0	0.289815	15uW/MHz	PASS
	5250.0 to 5251.0	85.385637	465.55394uW/MHz	PASS
	5251.0 to 5270.0	11.171751	49.97577uW/MHz	PASS
	5270.0 to 5278.4	0.342075	7.9212uW/MHz	PASS
	5278.4 to 26000.0	0.064584	2.5uW/MHz	PASS

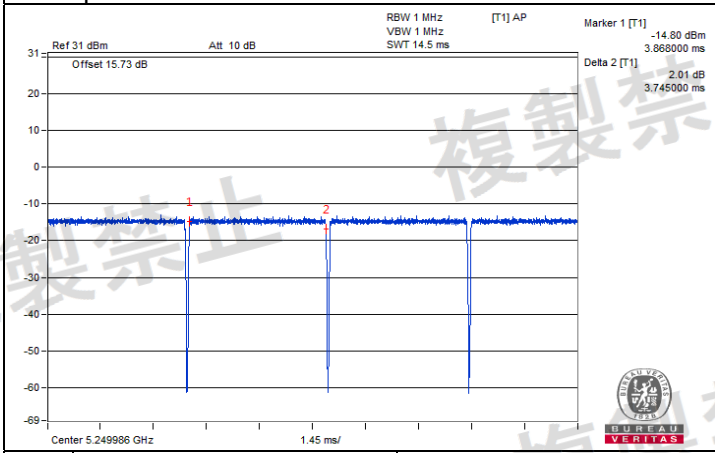
802.11ax (HE40) Chain 0 W53

TEST CHANNEL		CH 54 (5270 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	395.811	0.003483	0.083333 uW/100kHz	PASS
	1000.0 to 5221.6	5216.850	0.018408	0.833333 uW/MHz	PASS
	5221.6 to 5230.0	5224.831	0.103753	1.298782 uW/MHz	PASS
	5230.0 to 5249.0	5248.925	1.972423	16.545918 uW/MHz	PASS
	5249.0 to 5250.0	5249.986	33.39342	161.379643 uW/MHz	PASS(1)
	5350.0 to 5358.4	5350.363	0.086298	5 uW/MHz	PASS
	5358.4 to 26000.0	5384.202	0.01574	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 62 (5310 MHz)			
V_{normal}	30.0 to 1000.0	917.671	0.003296	0.083333 uW/100kHz	PASS
	1000.0 to 5221.6	4874.373	0.027925	0.833333 uW/MHz	PASS
	5221.6 to 5230.0	5223.566	0.09594	1.091651 uW/MHz	PASS
	5230.0 to 5249.0	5235.109	0.09977	4.334755 uW/MHz	PASS
	5249.0 to 5250.0	5249.284	0.065464	32.051529 uW/MHz	PASS
	5350.0 to 5358.4	5350.910	0.081096	5 uW/MHz	PASS
	5358.4 to 26000.0	5389.362	0.017338	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5249.986MHz	P = 33.39342uW/MHz			

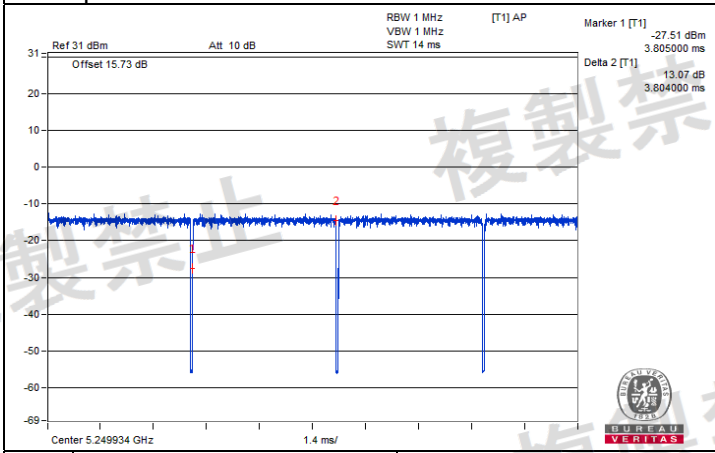
802.11ax (HE40) Chain 1 W53

TEST CHANNEL		CH 54 (5270 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	452.071	0.003565	0.083333 uW/100kHz	PASS
	1000.0 to 5221.6	5190.993	0.023014	0.833333 uW/MHz	PASS
	5221.6 to 5230.0	5229.534	0.082985	2.477727 uW/MHz	PASS
	5230.0 to 5249.0	5249.000	2.851018	16.666667 uW/MHz	PASS
	5249.0 to 5250.0	5249.934	35.54514	143.16892 uW/MHz	PASS(1)
	5350.0 to 5358.4	5352.226	0.076384	5 uW/MHz	PASS
	5358.4 to 26000.0	5381.621	0.016331	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 62 (5310 MHz)			
V_{normal}	30.0 to 1000.0	919.126	0.003311	0.083333 uW/100kHz	PASS
	1000.0 to 5221.6	5214.739	0.019454	0.833333 uW/MHz	PASS
	5221.6 to 5230.0	5224.028	0.089125	1.163162 uW/MHz	PASS
	5230.0 to 5249.0	5245.779	0.094842	12.196289 uW/MHz	PASS
	5249.0 to 5250.0	5249.062	0.074817	19.224221 uW/MHz	PASS
	5350.0 to 5358.4	5358.280	0.119399	5 uW/MHz	PASS
	5358.4 to 26000.0	5363.560	0.022029	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5249.934MHz	P = 35.54514uW/MHz			

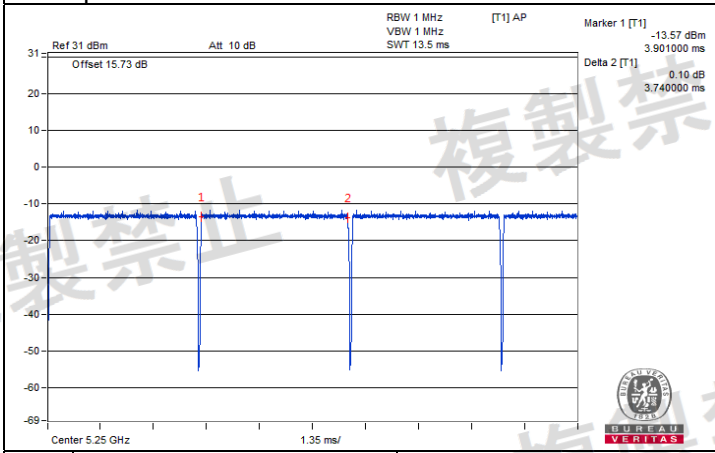
802.11ax (HE40) Chain 2 W53

TEST CHANNEL		CH 54 (5270 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	978.175	0.00335	0.083333 uW/100kHz	PASS
	1000.0 to 5221.6	5213.684	0.025942	0.833333 uW/MHz	PASS
	5221.6 to 5230.0	5229.790	0.12388	2.566392 uW/MHz	PASS
	5230.0 to 5249.0	5248.960	3.140509	16.602158 uW/MHz	PASS
	5249.0 to 5250.0	5250.000	46.510353	166.666667 uW/MHz	PASS(1)
	5350.0 to 5358.4	5357.066	0.091622	5 uW/MHz	PASS
	5358.4 to 26000.0	5389.362	0.018072	0.833333 uW/MHz	PASS
TEST CHANNEL		CH 62 (5310 MHz)			
V_{normal}	30.0 to 1000.0	888.692	0.00317	0.083333 uW/100kHz	PASS
	1000.0 to 5221.6	5189.938	0.028708	0.833333 uW/MHz	PASS
	5221.6 to 5230.0	5222.095	0.08091	0.891957 uW/MHz	PASS
	5230.0 to 5249.0	5245.078	0.111173	11.394936 uW/MHz	PASS
	5249.0 to 5250.0	5249.832	0.098855	113.200606 uW/MHz	PASS
	5350.0 to 5358.4	5350.106	0.100925	5 uW/MHz	PASS
	5358.4 to 26000.0	5397.103	0.024774	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

2. (No.): The value was tested under Measuring Mode *Zero Span.

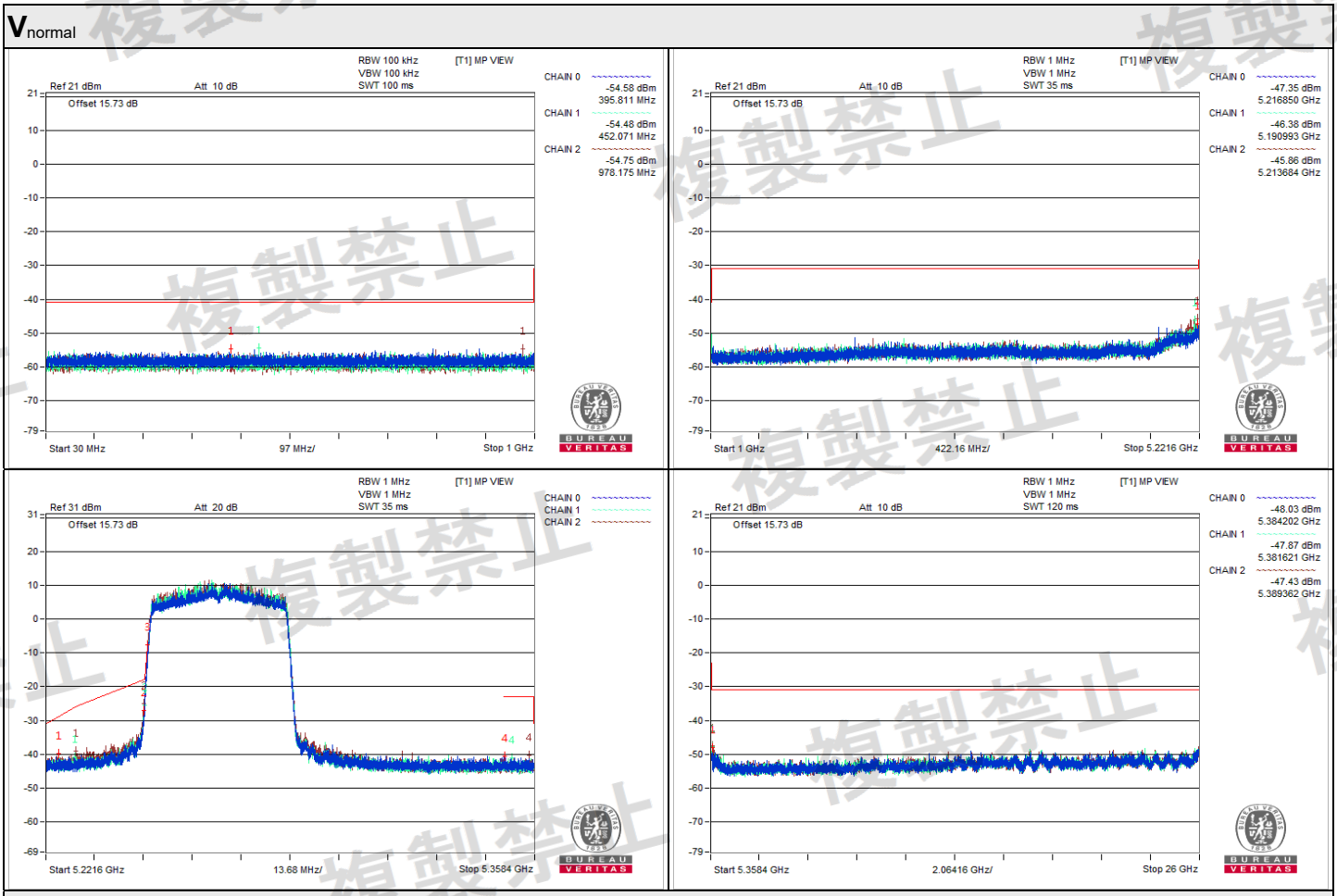
Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5250.000MHz	P = 46.510353uW/MHz			

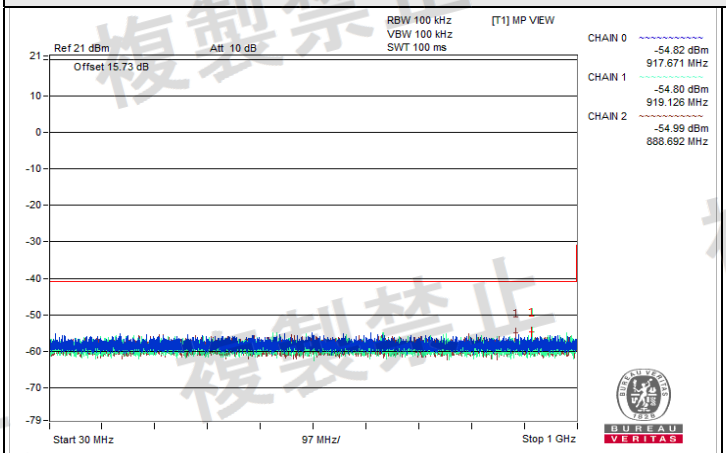
802.11ax (HE40) Graph W53

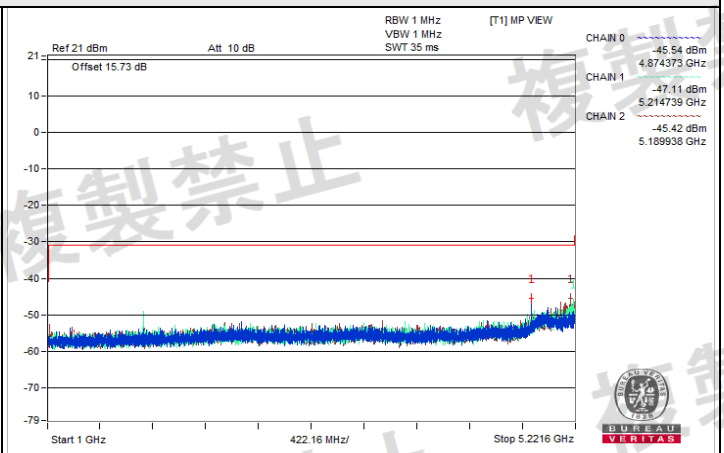
Vnormal

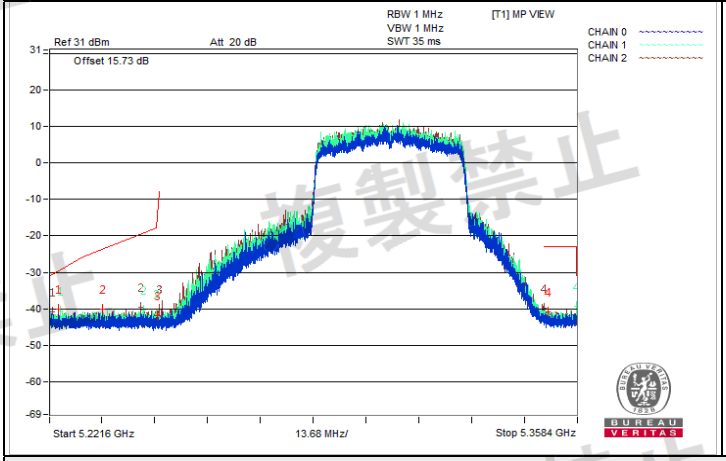


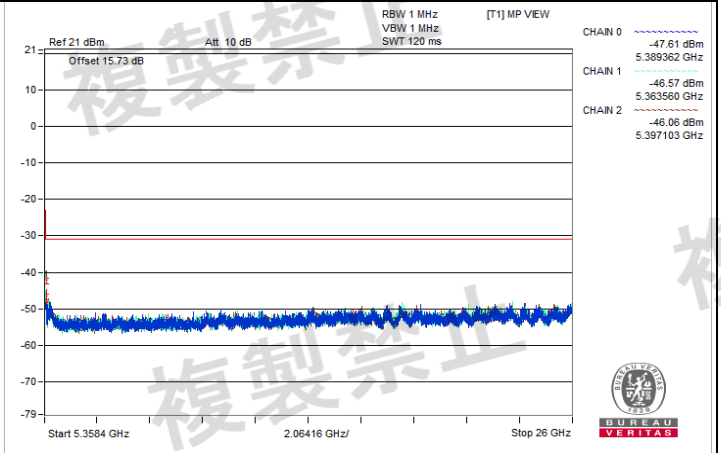
CH 54 (5270 MHz)

Vnormal









CH 62 (5310 MHz)

802.11ax (HE40) [Worst result] x [Number of antenna ports] W53

TEST CHANNEL		CH 54 (5270 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.010695	0.25uW/100kHz	PASS
	1000.0 to 5221.6	0.077826	2.5uW/MHz	PASS
	5221.6 to 5230.0	0.371640	7.69918uW/MHz	PASS
	5230.0 to 5249.0	9.421527	49.80647uW/MHz	PASS
	5249.0 to 5250.0	139.531059	500uW/MHz	PASS
	5350.0 to 5358.4	0.274866	15uW/MHz	PASS
	5358.4 to 26000.0	0.054216	2.5uW/MHz	PASS
TEST CHANNEL		CH 62 (5310 MHz)		
V_{normal}	30.0 to 1000.0	0.009933	0.25uW/100kHz	PASS
	1000.0 to 5221.6	0.086124	2.5uW/MHz	PASS
	5221.6 to 5230.0	0.287820	3.27495uW/MHz	PASS
	5230.0 to 5249.0	0.333519	34.18481uW/MHz	PASS
	5249.0 to 5250.0	0.296565	339.60182uW/MHz	PASS
	5350.0 to 5358.4	0.358197	15uW/MHz	PASS
	5358.4 to 26000.0	0.074322	2.5uW/MHz	PASS

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802.11ax (HE40) Chain 0 W56

TEST CHANNEL		CH 102 (5510 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	715.547	0.003508	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5430.452	0.065163	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5469.881	0.151008	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	25984.827	0.015205	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 118 (5590 MHz)			
V_{normal}	30.0 to 1000.0	46.611	0.003221	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5432.682	0.02799	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5464.185	0.076208	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5828.161	0.018967	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 142 (5710 MHz)			
V_{normal}	30.0 to 1000.0	846.497	0.00399	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5448.292	0.012246	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5460.310	0.066834	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5772.528	0.051404	4.166667 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

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802.11ax (HE40) Chain 1 W56

TEST CHANNEL		CH 102 (5510 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	274.682	0.003475	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5431.010	0.067298	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5467.207	0.136773	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5780.115	0.020941	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 118 (5590 MHz)			
V_{normal}	30.0 to 1000.0	84.320	0.003304	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5446.062	0.031189	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5468.021	0.104472	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5830.690	0.020417	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 142 (5710 MHz)			
V_{normal}	30.0 to 1000.0	873.172	0.003048	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5430.452	0.0139	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5466.587	0.088105	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5797.816	0.057943	4.166667 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

複製禁止

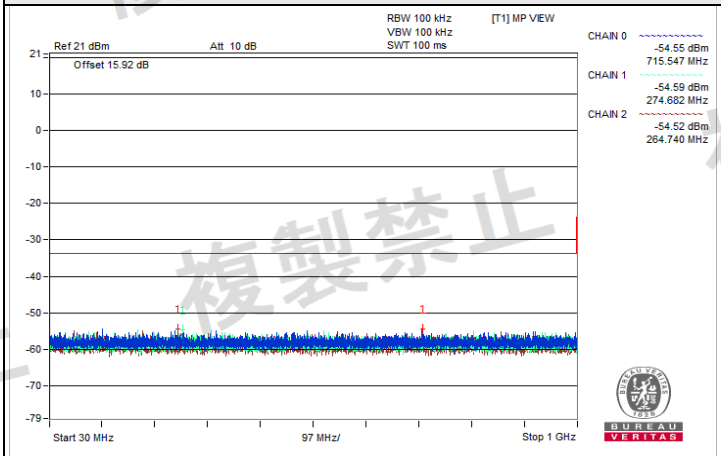
802.11ax (HE40) Chain 2 W56

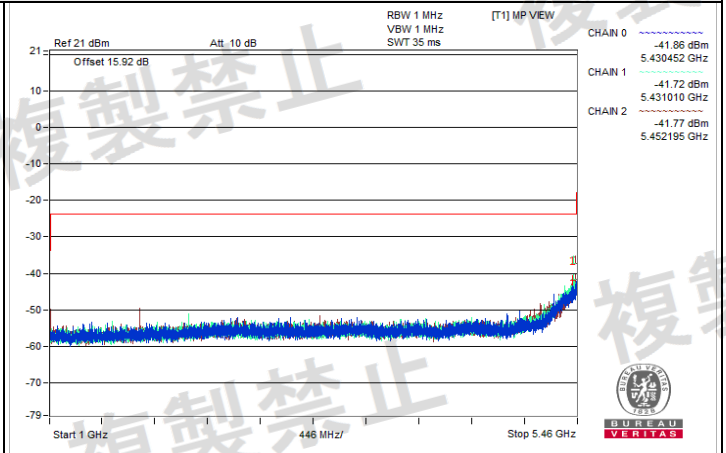
TEST CHANNEL		CH 102 (5510 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	264.740	0.003532	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5452.195	0.066527	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5469.493	0.255859	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5790.230	0.033037	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 118 (5590 MHz)			
V_{normal}	30.0 to 1000.0	279.411	0.003048	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5434.912	0.054702	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5469.532	0.161065	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5790.230	0.072277	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 142 (5710 MHz)			
V_{normal}	30.0 to 1000.0	552.830	0.003443	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5431.010	0.02037	4.166667 uW/MHz	PASS
	5460.0 to 5470.0	5462.286	0.082035	16.666667 uW/MHz	PASS
	5770.0 to 26000.0	5772.528	0.084528	4.166667 uW/MHz	PASS

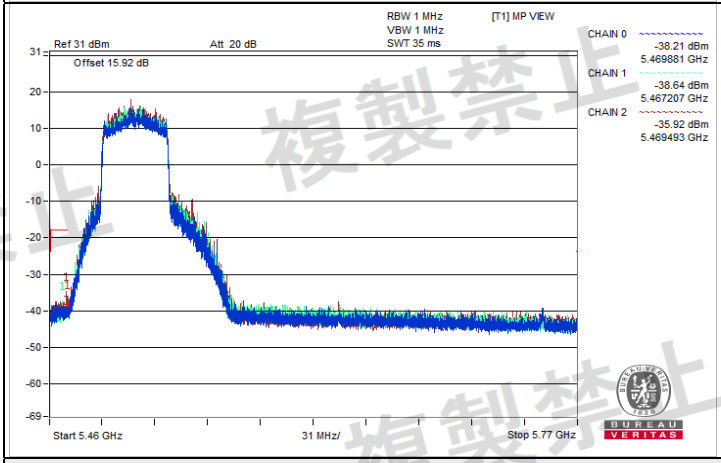
NOTE: 1. The spectrum plots are attached on the following pages.

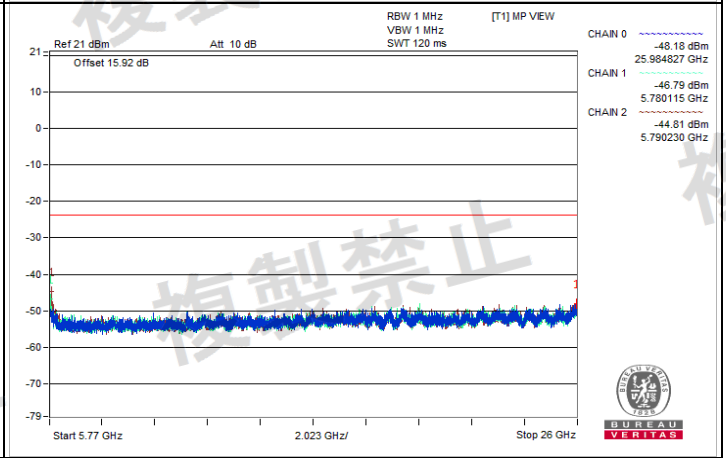
802.11ax (HE40) Graph W56

Vnormal



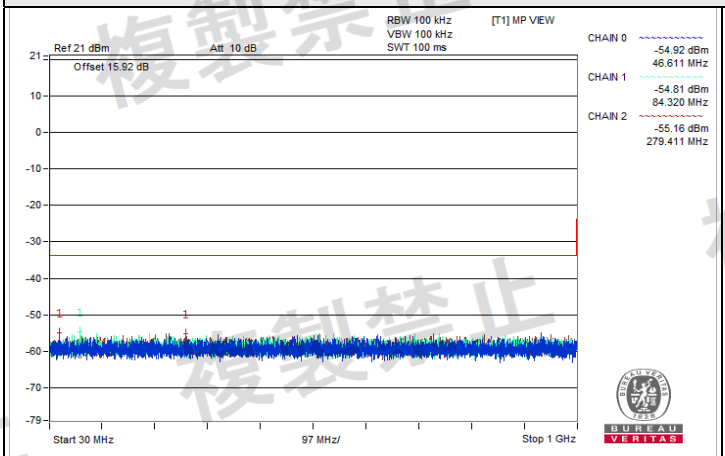


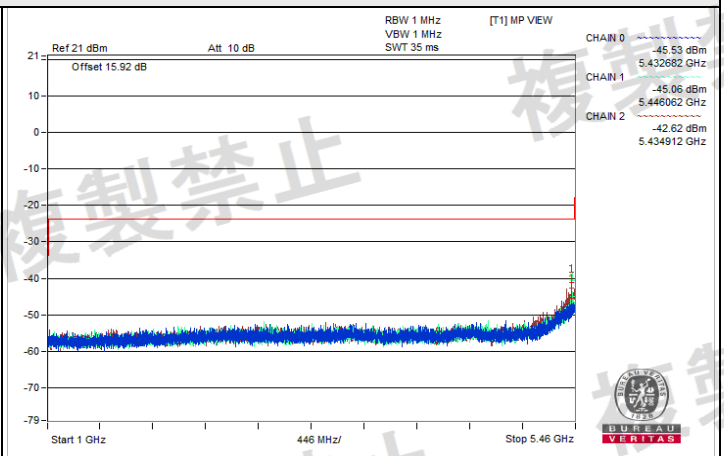


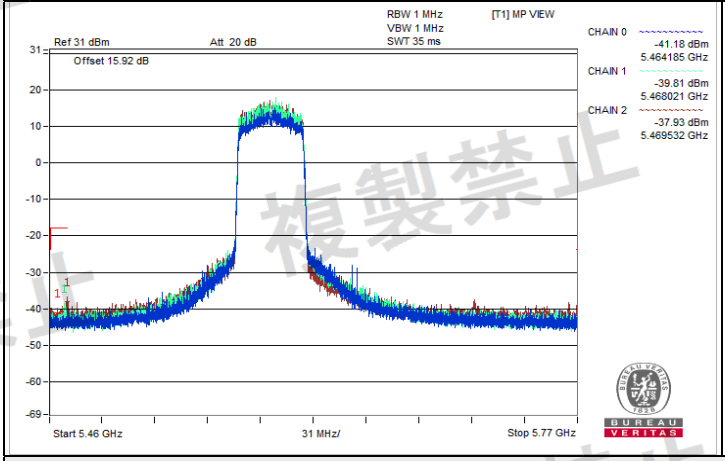


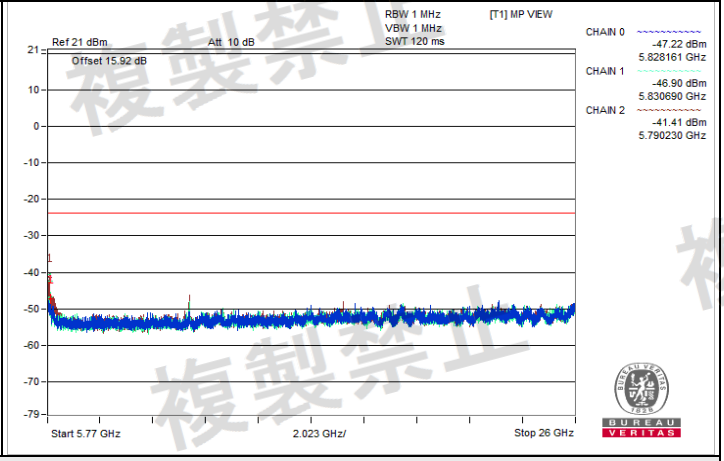
CH 102 (5510 MHz)

Vnormal



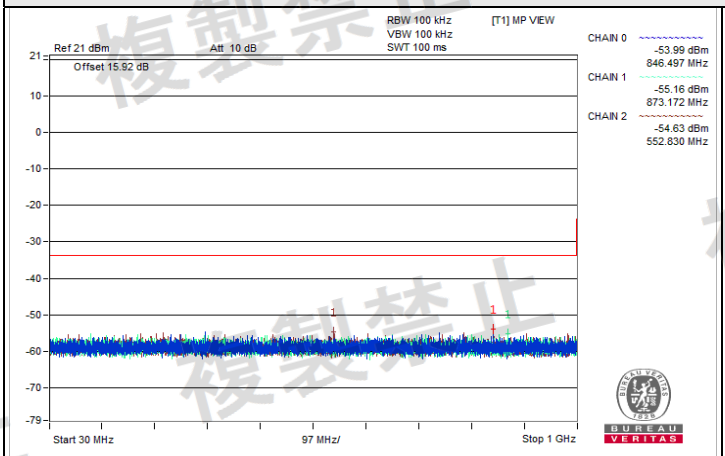


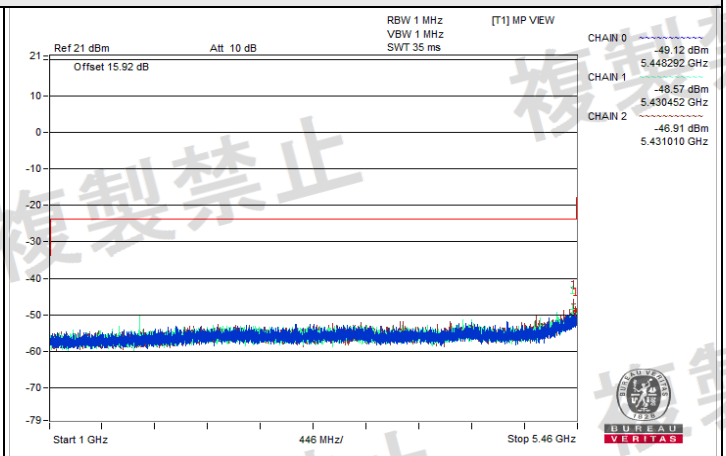


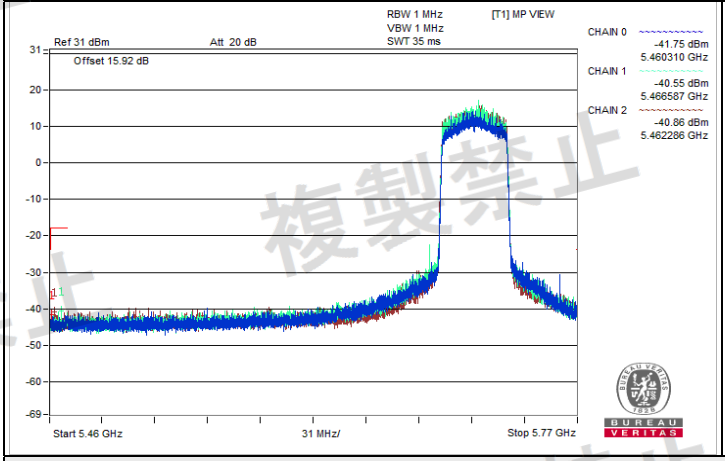


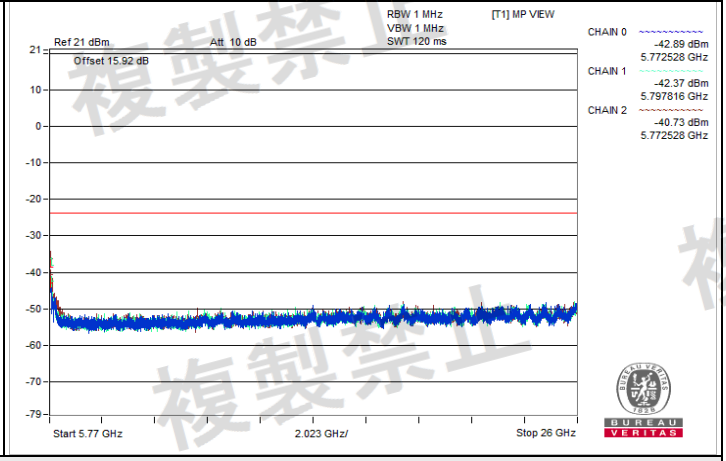
CH 118 (5590 MHz)

Vnormal









CH 142 (5710 MHz)

802.11ax (HE40) [Worst result] x [Number of antenna ports] W56

TEST CHANNEL		CH 102 (5510 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.010596	1.25uW/100kHz	PASS
	1000.0 to 5460.0	0.201894	12.5uW/MHz	PASS
	5460.0 to 5470.0	0.767577	50uW/MHz	PASS
	5770.0 to 26000.0	0.099111	12.5uW/MHz	PASS
TEST CHANNEL		CH 118 (5590 MHz)		
V_{normal}	30.0 to 1000.0	0.009912	1.25uW/100kHz	PASS
	1000.0 to 5460.0	0.164106	12.5uW/MHz	PASS
	5460.0 to 5470.0	0.483195	50uW/MHz	PASS
	5770.0 to 26000.0	0.216831	12.5uW/MHz	PASS
TEST CHANNEL		CH 142 (5710 MHz)		
V_{normal}	30.0 to 1000.0	0.011970	1.25uW/100kHz	PASS
	1000.0 to 5460.0	0.061110	12.5uW/MHz	PASS
	5460.0 to 5470.0	0.264315	50uW/MHz	PASS
	5770.0 to 26000.0	0.253584	12.5uW/MHz	PASS

複製禁止

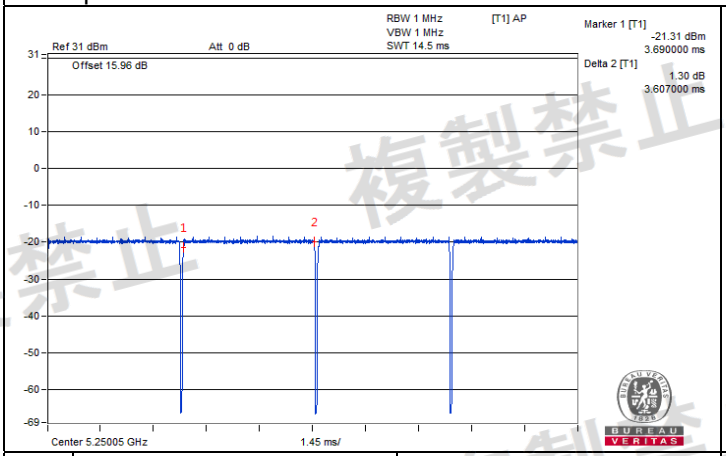
802.11ax (HE80) Chain 0 W52

TEST CHANNEL		CH 42 (5210 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	510.513	0.003698	0.083333 uW/100kHz	PASS
	1000.0 to 5123.2	5119.592	0.031189	0.833333 uW/MHz	PASS
	5123.2 to 5150.0	5149.181	0.203704	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.050	10.434018	74.270912 uW/MHz	PASS(1)
	5251.0 to 5290.0	5251.871	1.676337	7.99746 uW/MHz	PASS(2)
	5290.0 to 5296.7	5290.107	0.176506	1.311067 uW/MHz	PASS(3)
	5296.7 to 26000.0	5299.287	0.295801	0.833333 uW/MHz	PASS

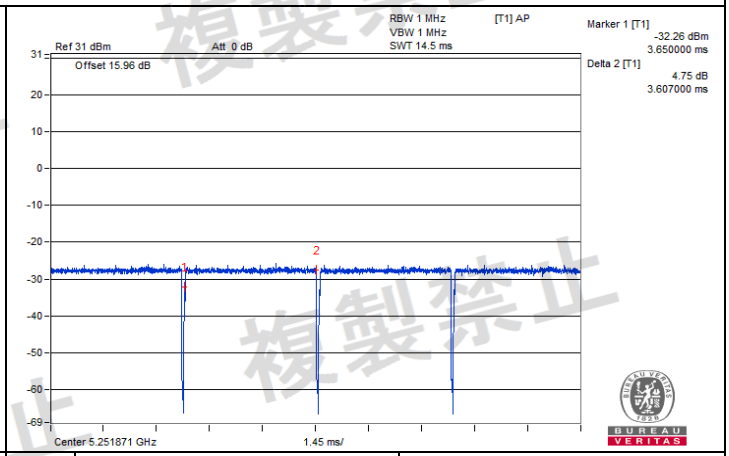
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

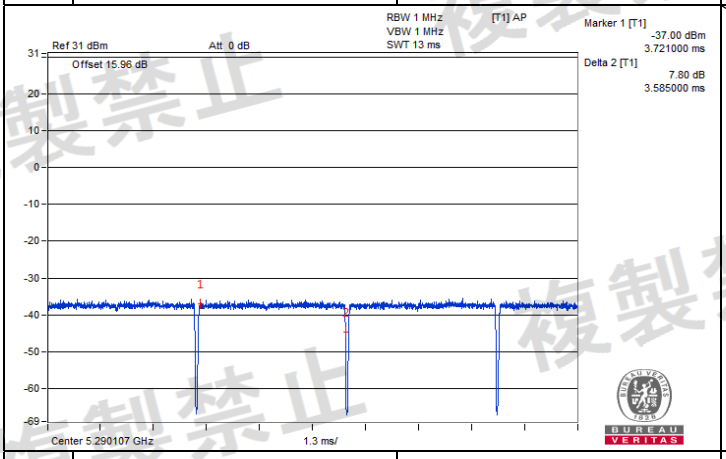
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5250.050MHz	P = 10.434018uW/MHz



2	5251.871MHz	P = 1.676337uW/MHz



3	5290.107MHz	P = 0.176506uW/MHz

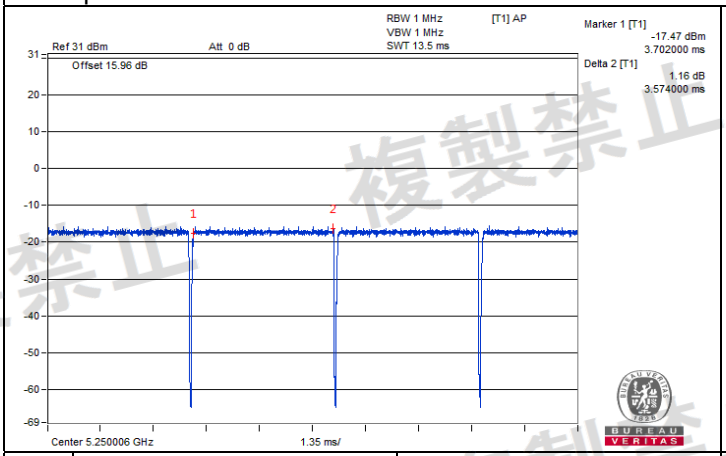
802.11ax (HE80) Chain 1 W52

TEST CHANNEL		CH 42 (5210 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	308.753	0.003899	0.083333 uW/100kHz	PASS
	1000.0 to 5123.2	5118.561	0.03069	0.833333 uW/MHz	PASS
	5123.2 to 5150.0	5149.962	0.254097	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.006	18.686438	82.189957 uW/MHz	PASS(1)
	5251.0 to 5290.0	5255.038	2.095903	6.886332 uW/MHz	PASS(2)
	5290.0 to 5296.7	5290.649	0.219286	1.263123 uW/MHz	PASS(3)
	5296.7 to 26000.0	5296.700	0.415911	0.833333 uW/MHz	PASS

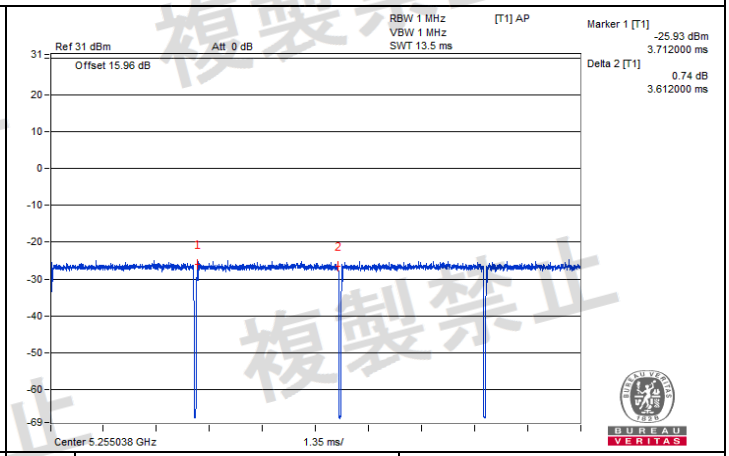
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

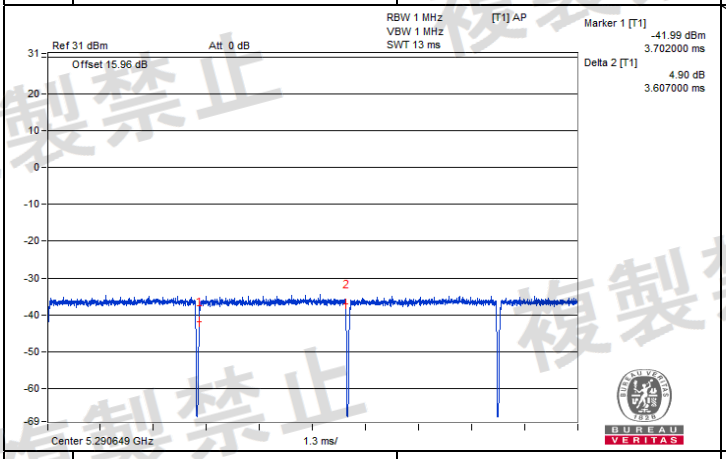
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5250.006MHz	P = 18.686438uW/MHz



2	5255.038MHz	P = 2.095903uW/MHz



3	5290.649MHz	P = 0.219286uW/MHz

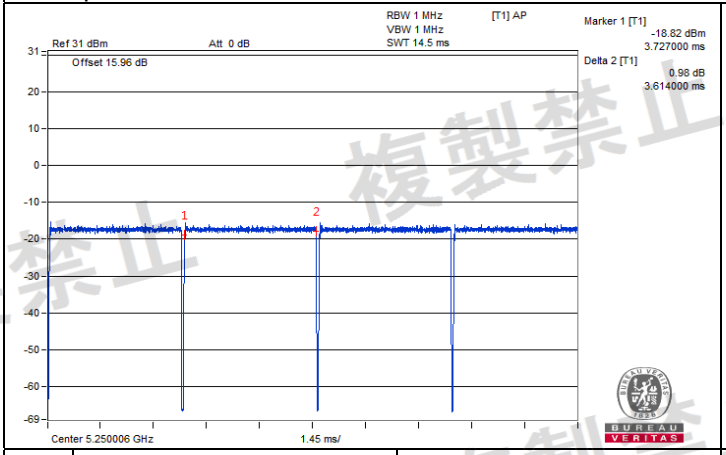
802.11ax (HE80) Chain 2 W52

TEST CHANNEL		CH 42 (5210 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	779.082	0.003365	0.083333 uW/100kHz	PASS
	1000.0 to 5123.2	5117.530	0.025763	0.833333 uW/MHz	PASS
	5123.2 to 5150.0	5150.000	0.263633	5 uW/MHz	PASS
	5250.0 to 5251.0	5250.006	18.260783	82.189957 uW/MHz	PASS(1)
	5251.0 to 5290.0	5251.655	2.617501	8.07947 uW/MHz	PASS(2)
	5290.0 to 5296.7	5293.707	0.185826	1.023675 uW/MHz	PASS(3)
	5296.7 to 26000.0	5299.287	0.094612	0.833333 uW/MHz	PASS(4)

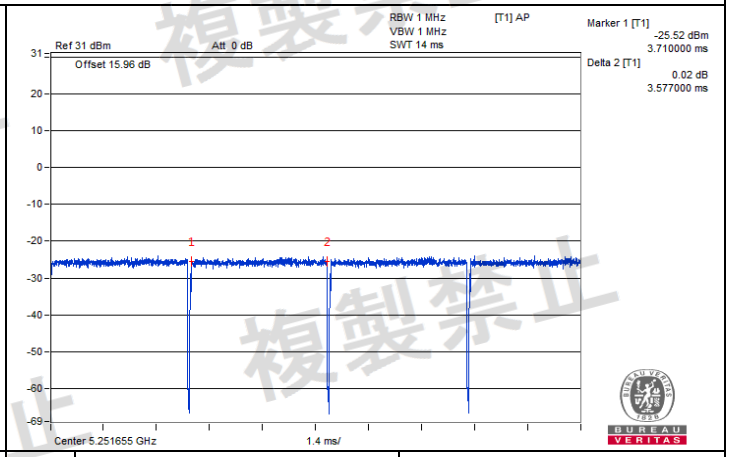
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

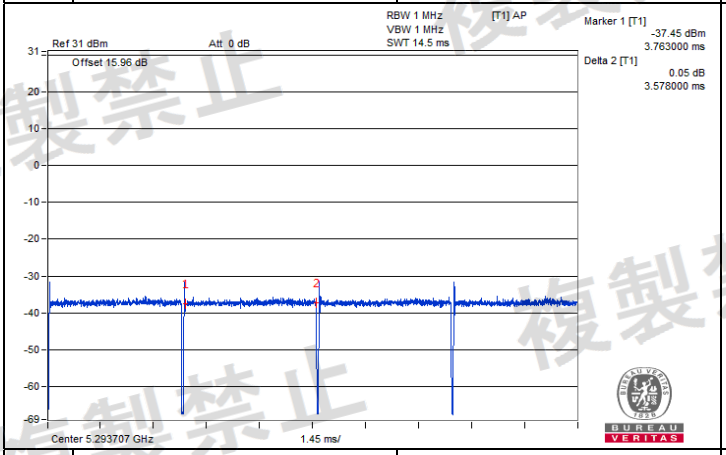
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



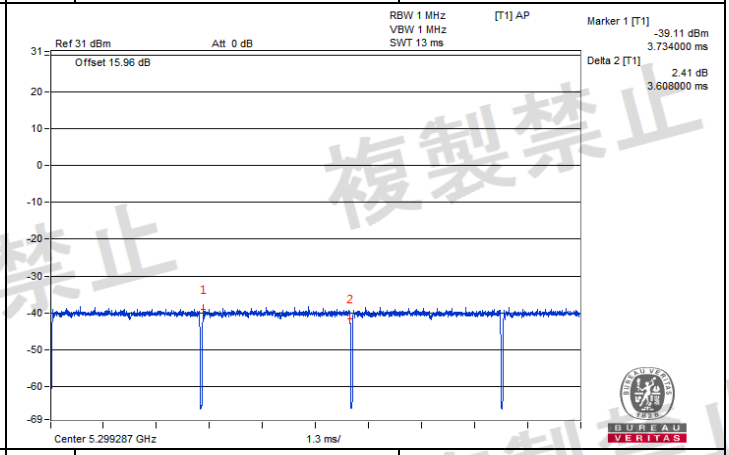
1	5250.006MHz	P = 18.260783uW/MHz



2	5251.655MHz	P = 2.617501uW/MHz



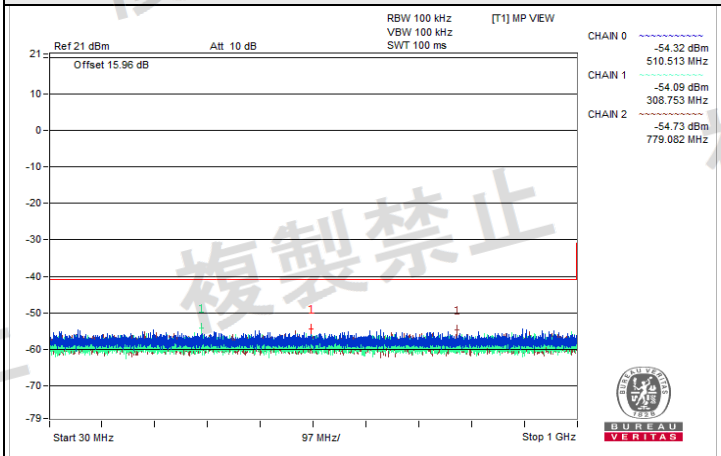
3	5293.707MHz	P = 0.185826uW/MHz

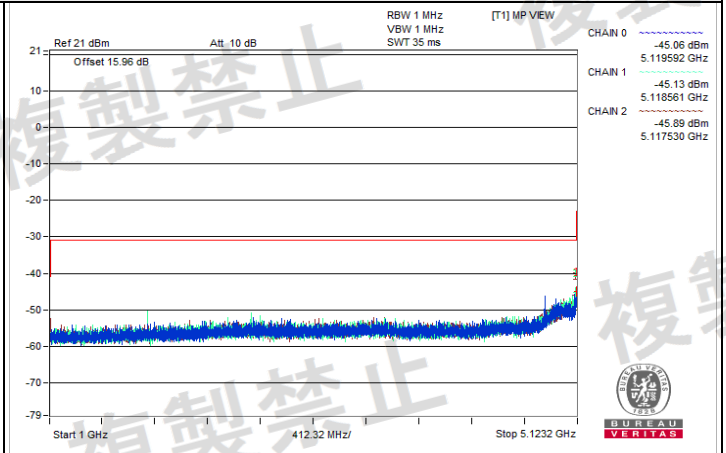


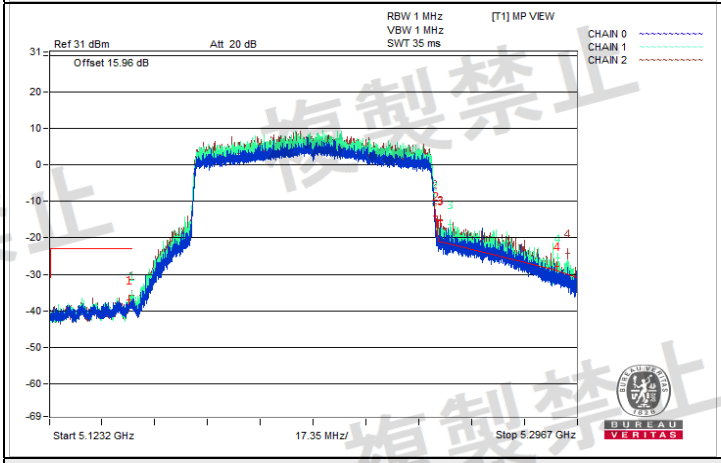
4	5299.287MHz	P = 0.094612uW/MHz

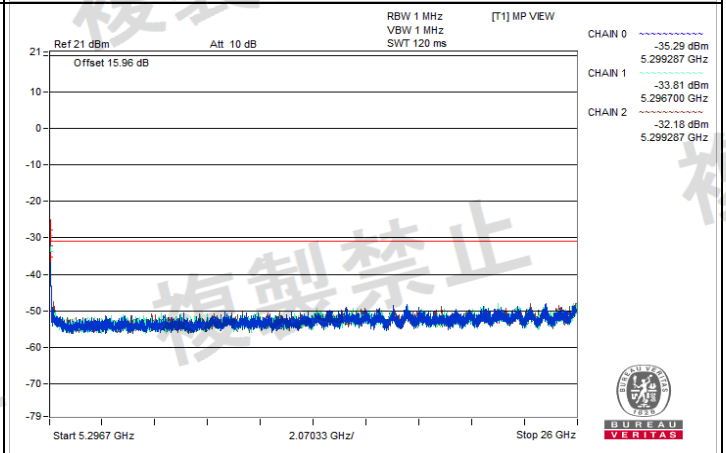
802.11ax (HE80) Graph W52

Vnormal









CH 42 (5210 MHz)

802.11ax (HE80) [Worst result] x [Number of antenna ports] W52

TEST CHANNEL		CH 42 (5210 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.011697	0.25uW/100kHz	PASS
	1000.0 to 5123.2	0.093567	2.5uW/MHz	PASS
	5123.2 to 5150.0	0.790899	15uW/MHz	PASS
	5250.0 to 5251.0	56.059314	246.56987uW/MHz	PASS
	5251.0 to 5290.0	7.852503	24.23841uW/MHz	PASS
	5290.0 to 5296.7	0.657858	3.78937uW/MHz	PASS
	5296.7 to 26000.0	1.247733	2.5uW/MHz	PASS

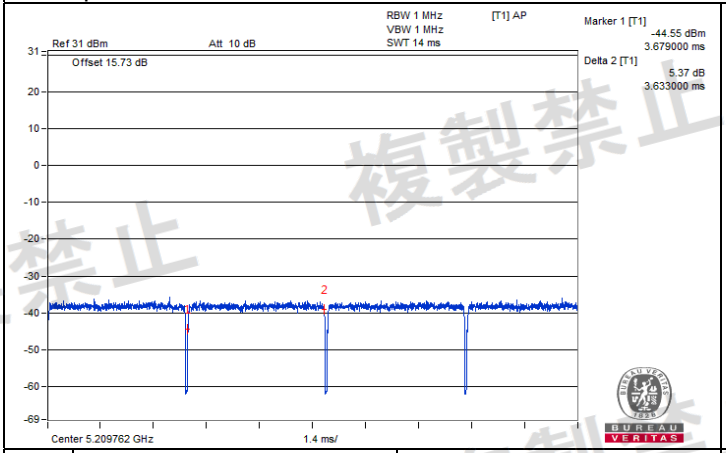
複製禁止

802.11ax (HE80) Chain 0 W53

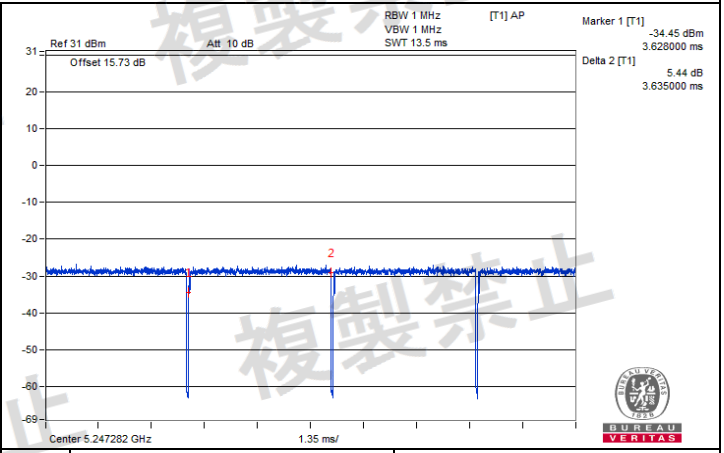
TEST CHANNEL		CH 58 (5290 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	903.121	0.003221	0.083333 uW/100kHz	PASS
	1000.0 to 5203.3	5198.571	0.249459	0.833333 uW/MHz	PASS
	5203.3 to 5210.0	5209.762	0.146425	1.299314 uW/MHz	PASS(1)
	5210.0 to 5249.0	5247.282	1.323655	7.68383 uW/MHz	PASS(2)
	5249.0 to 5250.0	5249.949	35.974934	74.100093 uW/MHz	PASS
	5350.0 to 5376.8	5350.081	0.198609	5 uW/MHz	PASS
	5376.8 to 26000.0	5387.111	0.021184	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span
1. Set the spectrum analyzer as below and it takes in a value of all data point. 2. Regarding the all data value, it transforms the “dBm” value into “uW” value. 3. It adds the all values and calculates a grand total. Define a grand total as “P”. 4. It divides “P” by sample data point (ex.501) and calculates the mean value. 5. It reports the mean value.



1	5209.762MHz	P = 0.146425uW/MHz



2	5247.282MHz	P = 1.323655uW/MHz

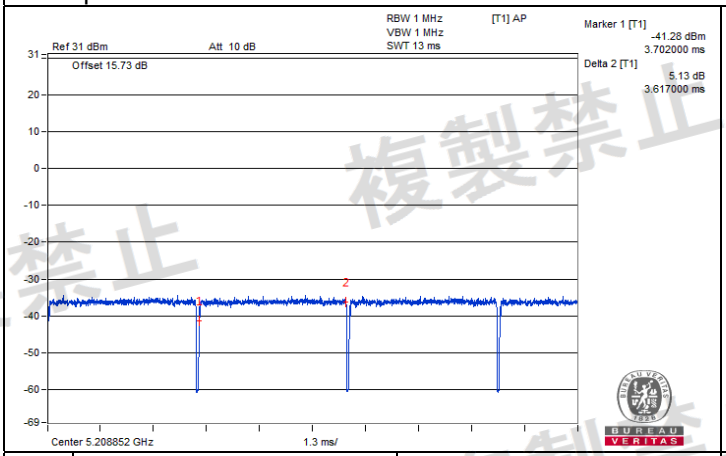
802.11ax (HE80) Chain 1 W53

TEST CHANNEL		CH 58 (5290 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	263.648	0.003006	0.083333 uW/100kHz	PASS
	1000.0 to 5203.3	5201.198	0.365595	0.833333 uW/MHz	PASS
	5203.3 to 5210.0	5208.852	0.235052	1.220535 uW/MHz	PASS(1)
	5210.0 to 5249.0	5248.279	2.336806	8.054322 uW/MHz	PASS(2)
	5249.0 to 5250.0	5249.971	16.756868	77.950473 uW/MHz	PASS(3)
	5350.0 to 5376.8	5353.767	0.177419	5 uW/MHz	PASS
	5376.8 to 26000.0	5397.423	0.023768	0.833333 uW/MHz	PASS

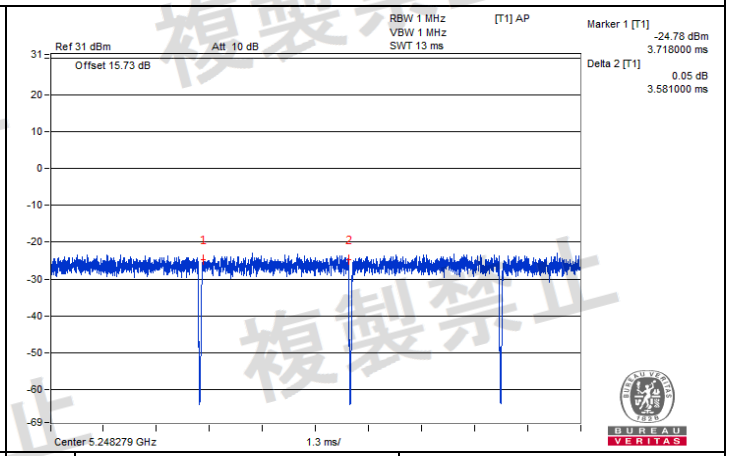
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

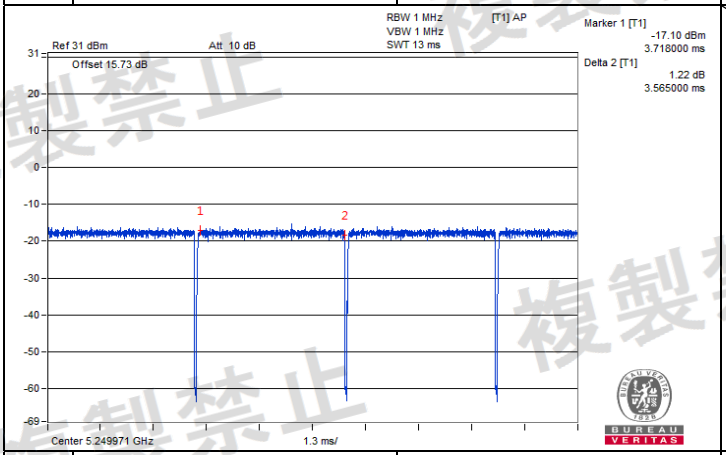
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



1	5208.852MHz	P = 0.235052uW/MHz



2	5248.279MHz	P = 2.336806uW/MHz



3	5249.971MHz	P = 16.756868uW/MHz

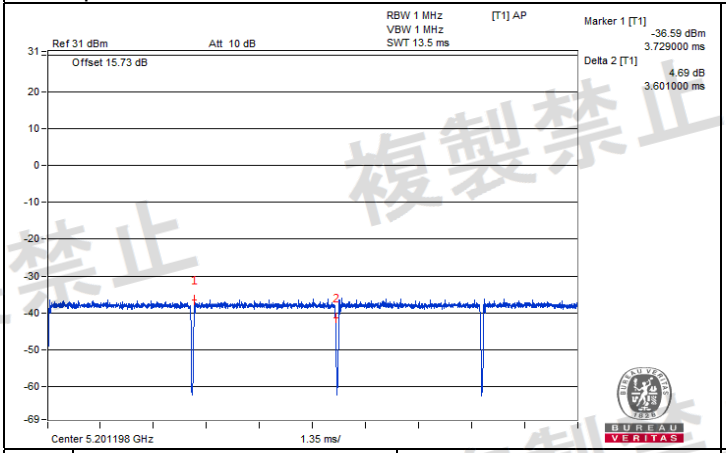
802.11ax (HE80) Chain 2 W53

TEST CHANNEL		CH 58 (5290 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	761.986	0.003304	0.083333 uW/100kHz	PASS
	1000.0 to 5203.3	5201.198	0.157306	0.833333 uW/MHz	PASS(1)
	5203.3 to 5210.0	5205.251	0.188951	0.952922 uW/MHz	PASS(2)
	5210.0 to 5249.0	5241.361	2.072247	5.809267 uW/MHz	PASS(3)
	5249.0 to 5250.0	5249.971	20.978589	77.950473 uW/MHz	PASS(4)
	5350.0 to 5376.8	5350.167	0.199986	5 uW/MHz	PASS
	5376.8 to 26000.0	5407.734	0.027164	0.833333 uW/MHz	PASS

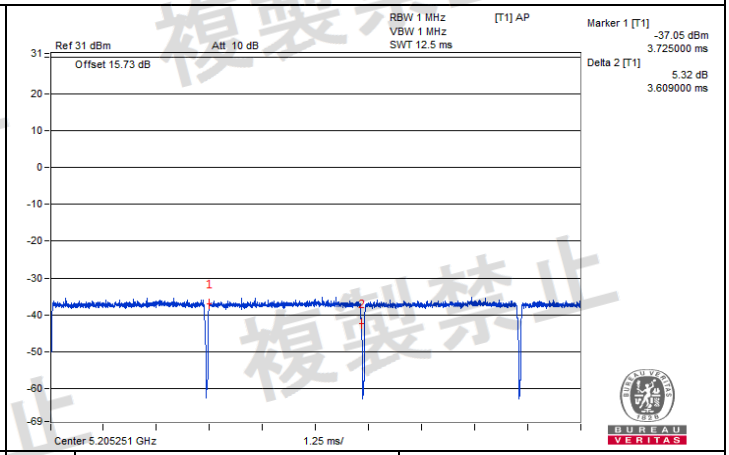
NOTE: 1. The spectrum plots are attached on the following pages.
2. (No.): The value was tested under Measuring Mode *Zero Span.

Measuring Mode *Zero Span

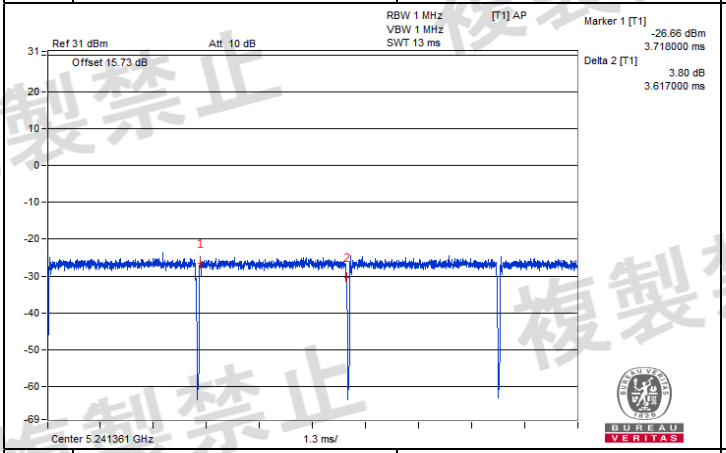
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (ex.501) and calculates the mean value.
5. It reports the mean value.



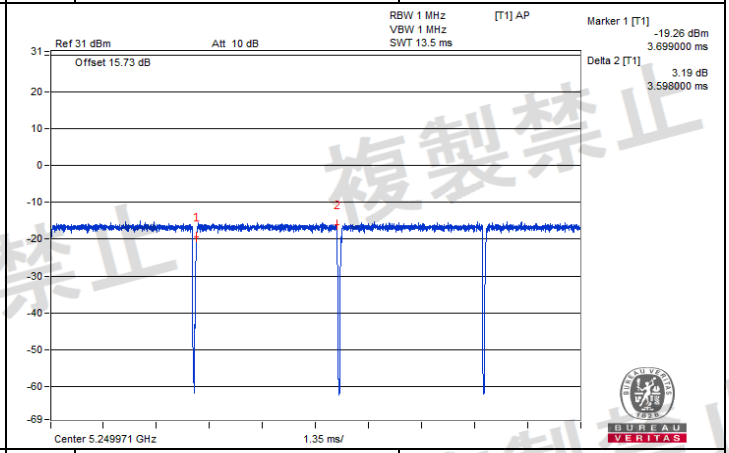
1	5201.198MHz	P = 0.157306uW/MHz



2	5205.251MHz	P = 0.188951uW/MHz



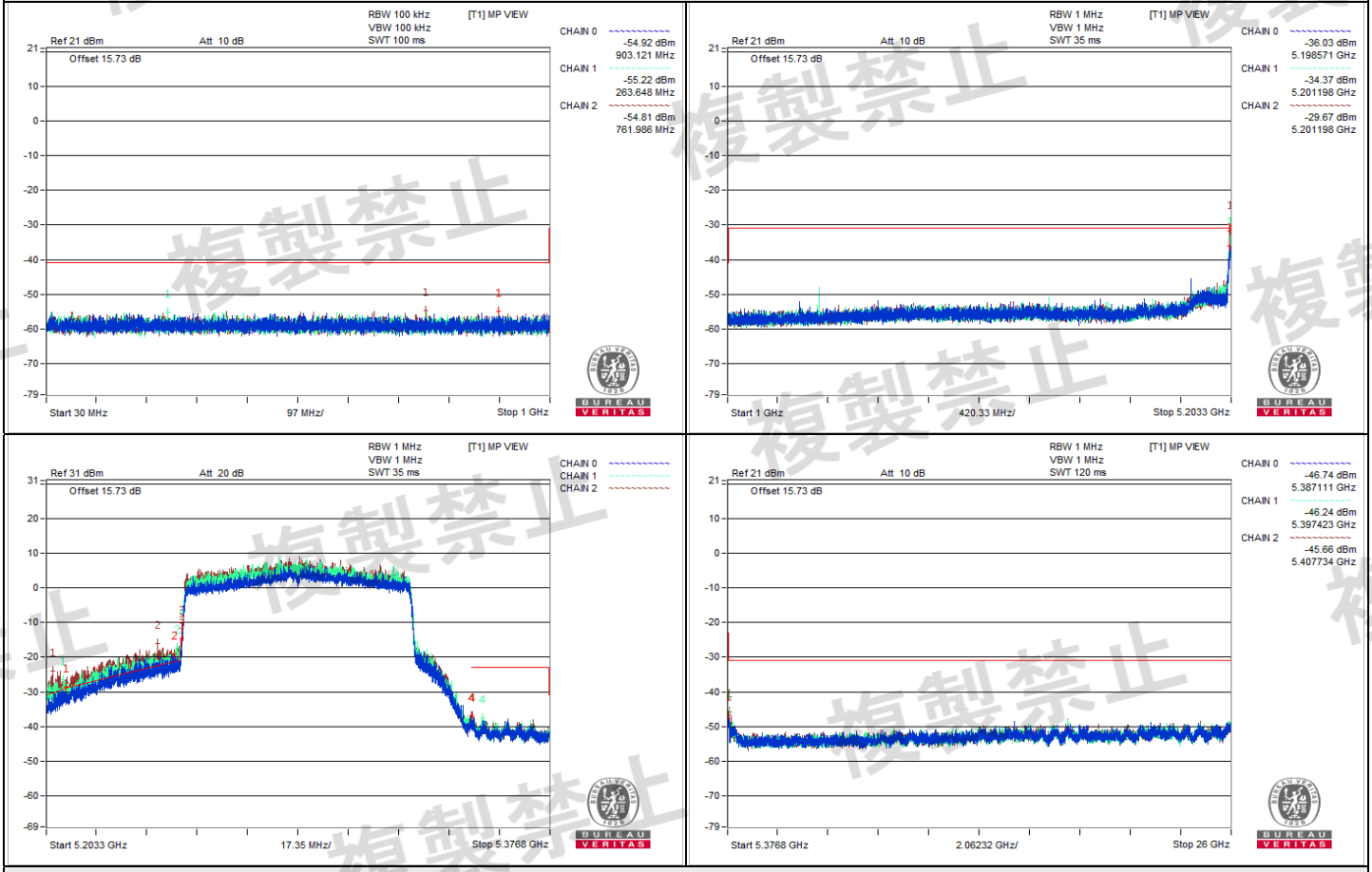
3	5241.361MHz	P = 2.072247uW/MHz



4	5249.971MHz	P = 20.978589uW/MHz

802.11ax (HE80) Graph W53

Vnormal



CH 58 (5290 MHz)

802.11ax (HE80) [Worst result] x [Number of antenna ports] W53

TEST CHANNEL		CH 58 (5290 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.009912	0.25uW/100kHz	PASS
	1000.0 to 5203.3	1.096785	2.5uW/MHz	PASS
	5203.3 to 5210.0	0.705156	3.6616uW/MHz	PASS
	5210.0 to 5249.0	7.010418	24.16297uW/MHz	PASS
	5249.0 to 5250.0	107.924802	222.30028uW/MHz	PASS
	5350.0 to 5376.8	0.599958	15uW/MHz	PASS
	5376.8 to 26000.0	0.081492	2.5uW/MHz	PASS

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802.11ax (HE80) Chain 0 W56

TEST CHANNEL		CH 106 (5530 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	601.572	0.003556	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5454.982	0.21727	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5469.028	0.695024	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.765	0.5188	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	25926.666	0.017498	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 122 (5610 MHz)			
V_{normal}	30.0 to 1000.0	298.205	0.003083	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5449.965	0.036224	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5468.137	0.095719	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.803	0.073282	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5775.057	0.023174	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 138 (5690 MHz)			
V_{normal}	30.0 to 1000.0	864.806	0.003396	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5447.177	0.015066	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5460.658	0.078886	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.610	0.071779	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5785.172	0.656145	4.166667 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

802.11ax (HE80) Chain 1 W56

TEST CHANNEL		CH 106 (5530 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	495.842	0.003119	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5453.867	0.339625	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5469.493	0.663743	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.803	0.790679	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5780.115	0.016943	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 122 (5610 MHz)			
V_{normal}	30.0 to 1000.0	618.426	0.004036	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5458.327	0.054325	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5466.006	0.099312	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.687	0.109144	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5772.528	0.039994	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 138 (5690 MHz)			
V_{normal}	30.0 to 1000.0	289.111	0.004178	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5446.062	0.019724	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5461.472	0.068707	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.765	0.067143	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5770.000	0.215278	4.166667 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

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802.11ax (HE80) Chain 2 W56

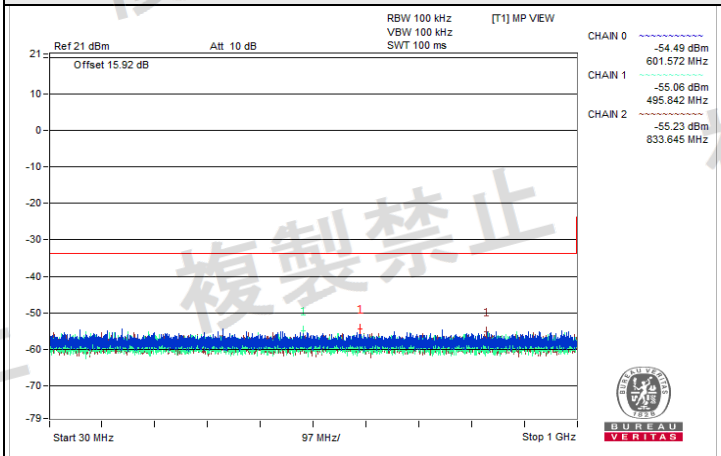
TEST CHANNEL		CH 106 (5530 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	833.645	0.002999	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5453.310	0.368978	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5469.377	0.879023	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.648	0.724436	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5787.701	0.03069	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 122 (5610 MHz)			
V_{normal}	30.0 to 1000.0	216.361	0.002972	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5459.442	0.075683	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5468.680	0.194536	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.648	0.100462	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5770.000	0.062661	4.166667 uW/MHz	PASS
TEST CHANNEL		CH 138 (5690 MHz)			
V_{normal}	30.0 to 1000.0	118.270	0.003162	0.416667 uW/100kHz	PASS
	1000.0 to 5460.0	5450.522	0.030061	4.166667 uW/MHz	PASS
	5460.0 to 5469.5	5465.115	0.089331	16.666667 uW/MHz	PASS
	5469.5 to 5470.0	5469.571	0.062517	17.066667 uW/MHz	PASS
	5770.0 to 26000.0	5775.057	0.468813	4.166667 uW/MHz	PASS

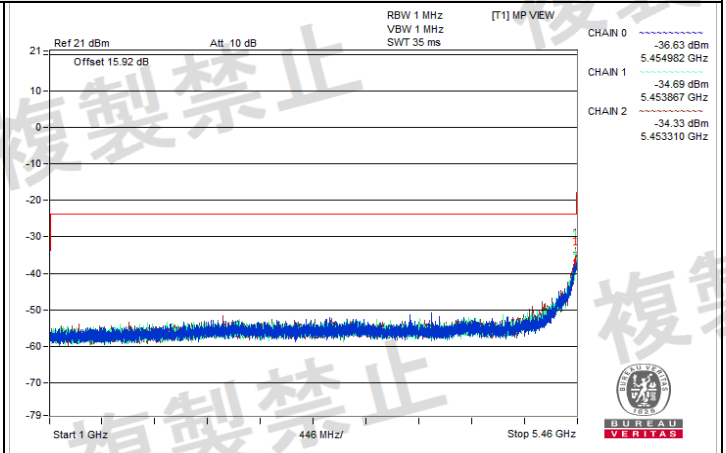
NOTE: 1. The spectrum plots are attached on the following pages.

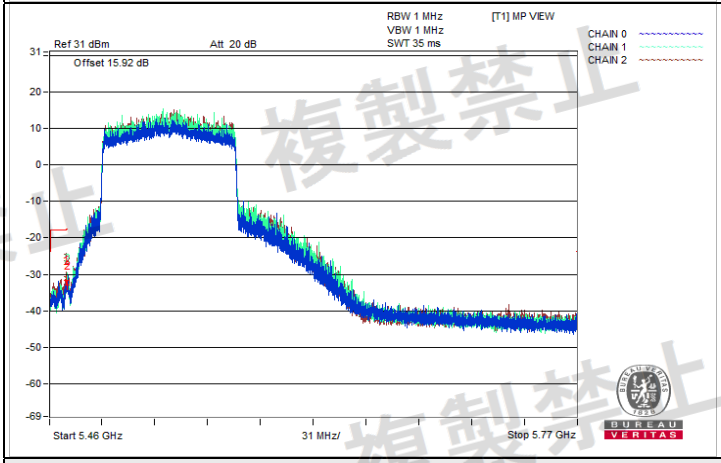
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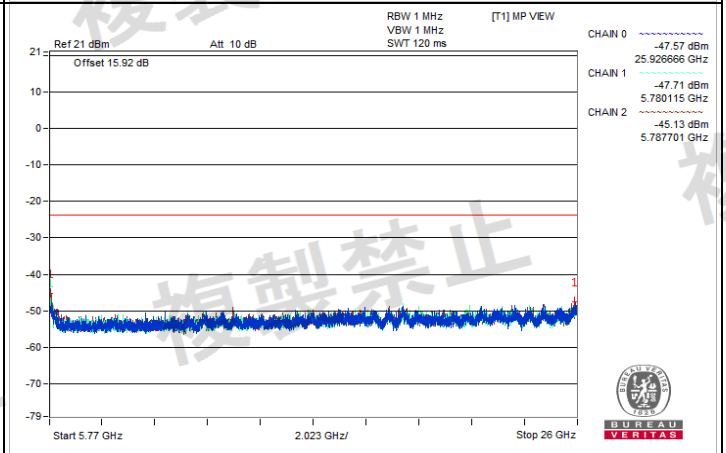
802.11ax (HE80) Graph W56

Vnormal



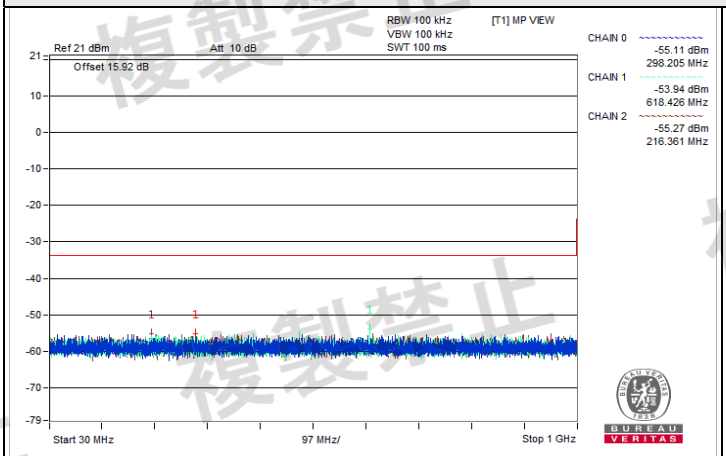


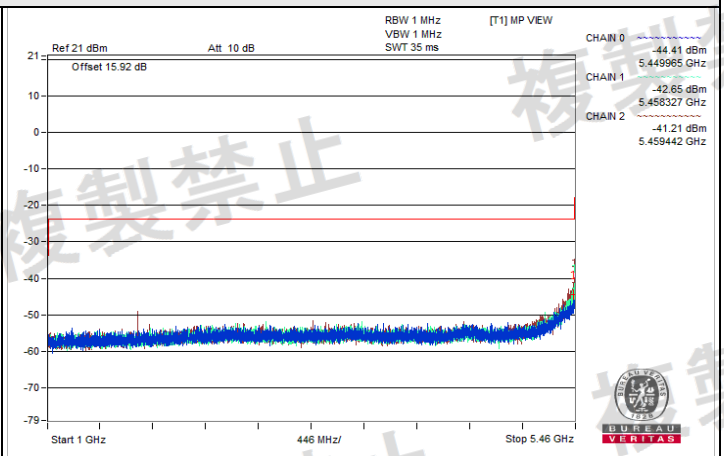


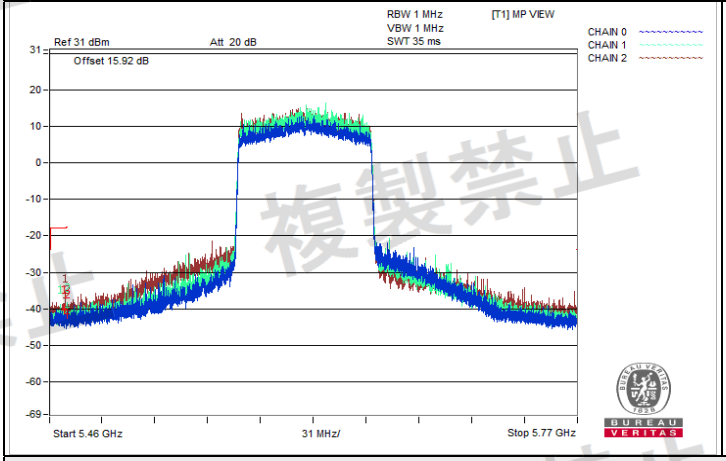


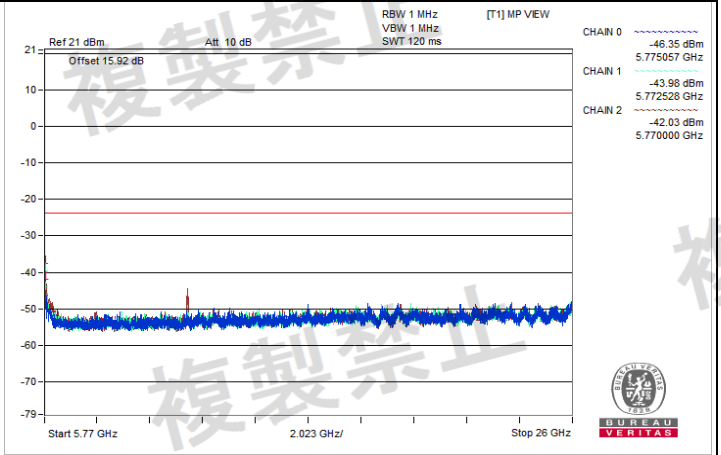
CH 106 (5530 MHz)

Vnormal



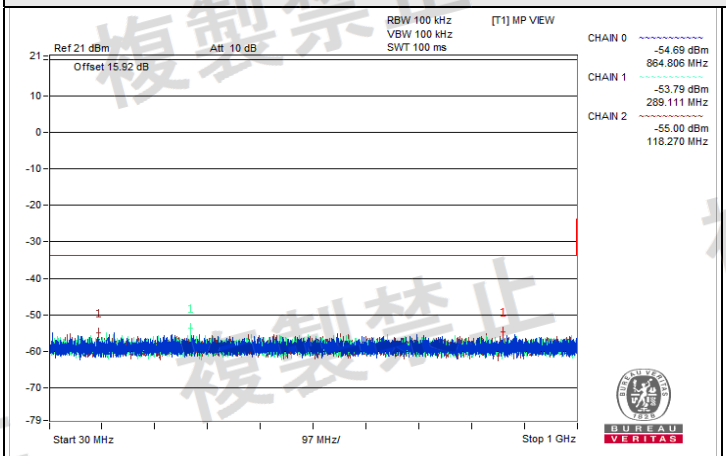


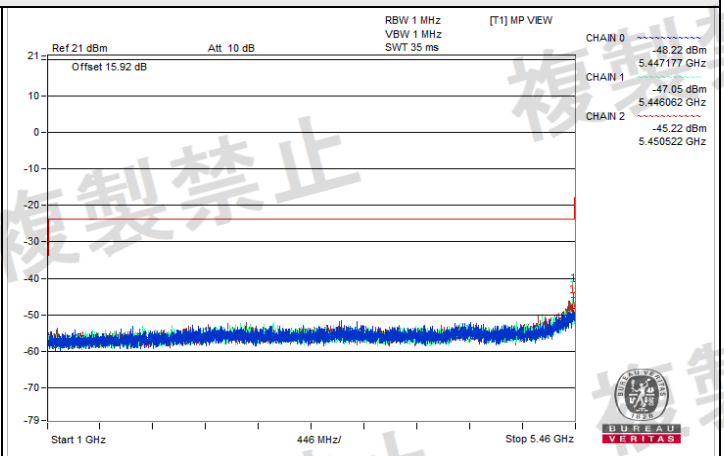


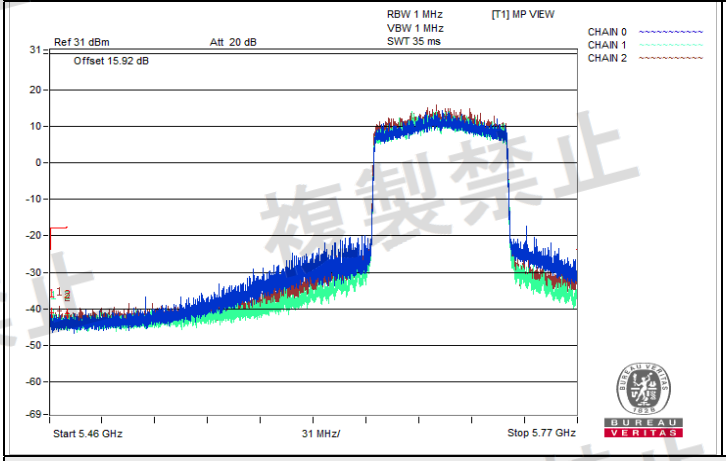


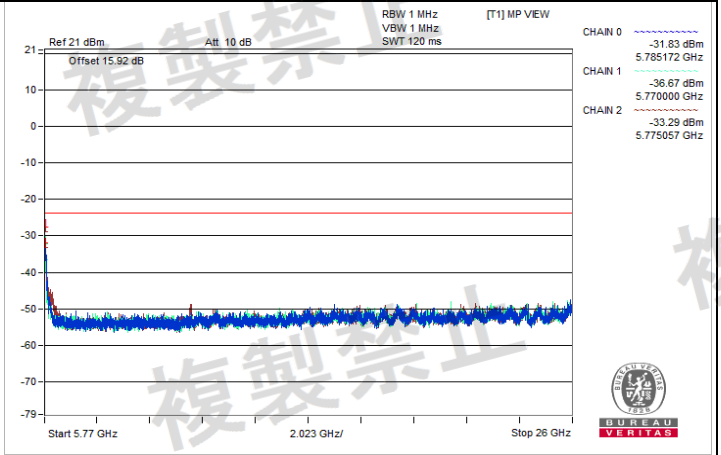
CH 122 (5610 MHz)

Vnormal









CH 138 (5690 MHz)

802.11ax (HE80) [Worst result] x [Number of antenna ports] W56

TEST CHANNEL		CH 106 (5530 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.010668	1.25uW/100kHz	PASS
	1000.0 to 5460.0	1.106934	12.5uW/MHz	PASS
	5460.0 to 5469.5	2.637069	50uW/MHz	PASS
	5469.5 to 5470.0	2.372037	51.2uW/MHz	PASS
	5770.0 to 26000.0	0.092070	12.5uW/MHz	PASS
TEST CHANNEL		CH 122 (5610 MHz)		
V_{normal}	30.0 to 1000.0	0.012108	1.25uW/100kHz	PASS
	1000.0 to 5460.0	0.227049	12.5uW/MHz	PASS
	5460.0 to 5469.5	0.583608	50uW/MHz	PASS
	5469.5 to 5470.0	0.327432	51.2uW/MHz	PASS
	5770.0 to 26000.0	0.187983	12.5uW/MHz	PASS
TEST CHANNEL		CH 138 (5690 MHz)		
V_{normal}	30.0 to 1000.0	0.012534	1.25uW/100kHz	PASS
	1000.0 to 5460.0	0.090183	12.5uW/MHz	PASS
	5460.0 to 5469.5	0.267993	50uW/MHz	PASS
	5469.5 to 5470.0	0.215337	51.2uW/MHz	PASS
	5770.0 to 26000.0	1.968435	12.5uW/MHz	PASS

802.11ax (HE160) Chain 0 W52+53

TEST CHANNEL		CH 50 (5250 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	56.068	0.003119	0.083333 uW/100kHz	PASS
	1000.0 to 5099.6	4874.634	0.061944	0.833333 uW/MHz	PASS
	5099.6 to 5150.0	5130.056	0.266073	5 uW/MHz	PASS
	5350.0 to 5400.4	5377.576	0.121619	5 uW/MHz	PASS
	5400.4 to 26000.0	5567.771	0.043652	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

802.11ax (HE160) Chain 1 W52+53

TEST CHANNEL		CH 50 (5250 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	439.946	0.003436	0.083333 uW/100kHz	PASS
	1000.0 to 5099.6	5096.012	0.047315	0.833333 uW/MHz	PASS
	5099.6 to 5150.0	5143.629	0.205589	5 uW/MHz	PASS
	5350.0 to 5400.4	5355.618	0.204174	5 uW/MHz	PASS
	5400.4 to 26000.0	5413.274	0.044668	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

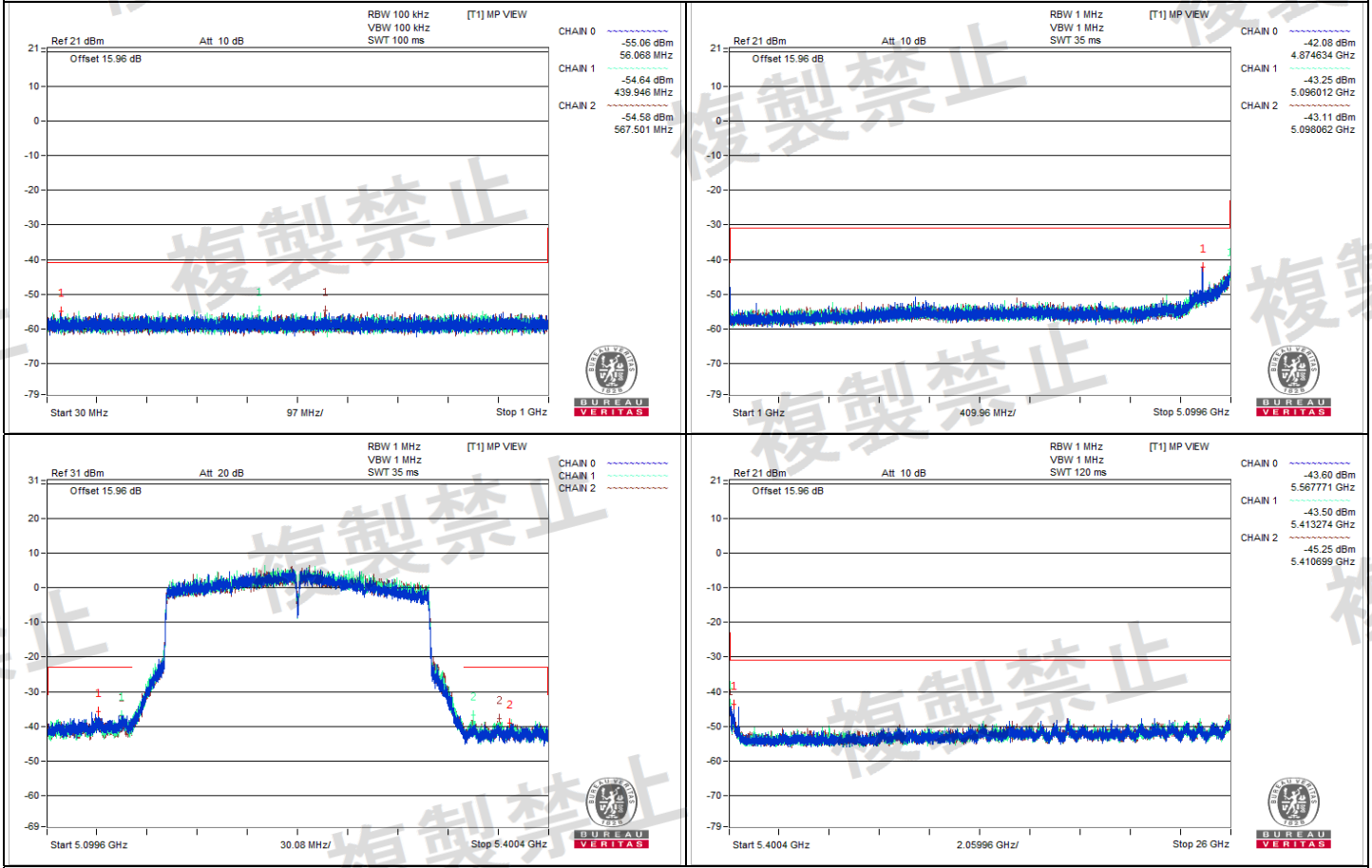
802.11ax (HE160) Chain 2 W52+53

TEST CHANNEL		CH 50 (5250 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	567.501	0.003483	0.083333 uW/100kHz	PASS
	1000.0 to 5099.6	5098.062	0.048865	0.833333 uW/MHz	PASS
	5099.6 to 5150.0	5143.817	0.203236	5 uW/MHz	PASS
	5350.0 to 5400.4	5370.996	0.16293	5 uW/MHz	PASS
	5400.4 to 26000.0	5410.699	0.029854	0.833333 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

802.11ax (HE160) Graph W52+53

Vnormal



CH 50 (5250 MHz)

802.11ax (HE160) [Worst result] x [Number of antenna ports] W52+53

TEST CHANNEL		CH 50 (5250 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.010449	0.25uW/100kHz	PASS
	1000.0 to 5099.6	0.185832	2.5uW/MHz	PASS
	5099.6 to 5150.0	0.798219	15uW/MHz	PASS
	5350.0 to 5400.4	0.612522	15uW/MHz	PASS
	5400.4 to 26000.0	0.134004	2.5uW/MHz	PASS

802.11ax (HE160) Chain 0 W56

TEST CHANNEL		CH 114 (5570 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	735.553	0.003342	0.416667 uW/100kHz	PASS
	1000.0 to 5419.6	5419.047	0.067608	4.166667 uW/MHz	PASS
	5419.6 to 5470.0	5465.600	0.345144	16.666667 uW/MHz	PASS
	5725.0 to 26000.0	5742.740	0.125314	4.166667 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

802.11ax (HE160) Chain 1 W56

TEST CHANNEL		CH 114 (5570 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	317.120	0.003673	0.416667 uW/100kHz	PASS
	1000.0 to 5419.6	5419.047	0.079983	4.166667 uW/MHz	PASS
	5419.6 to 5470.0	5463.234	0.299916	16.666667 uW/MHz	PASS
	5725.0 to 26000.0	5730.068	0.130918	4.166667 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

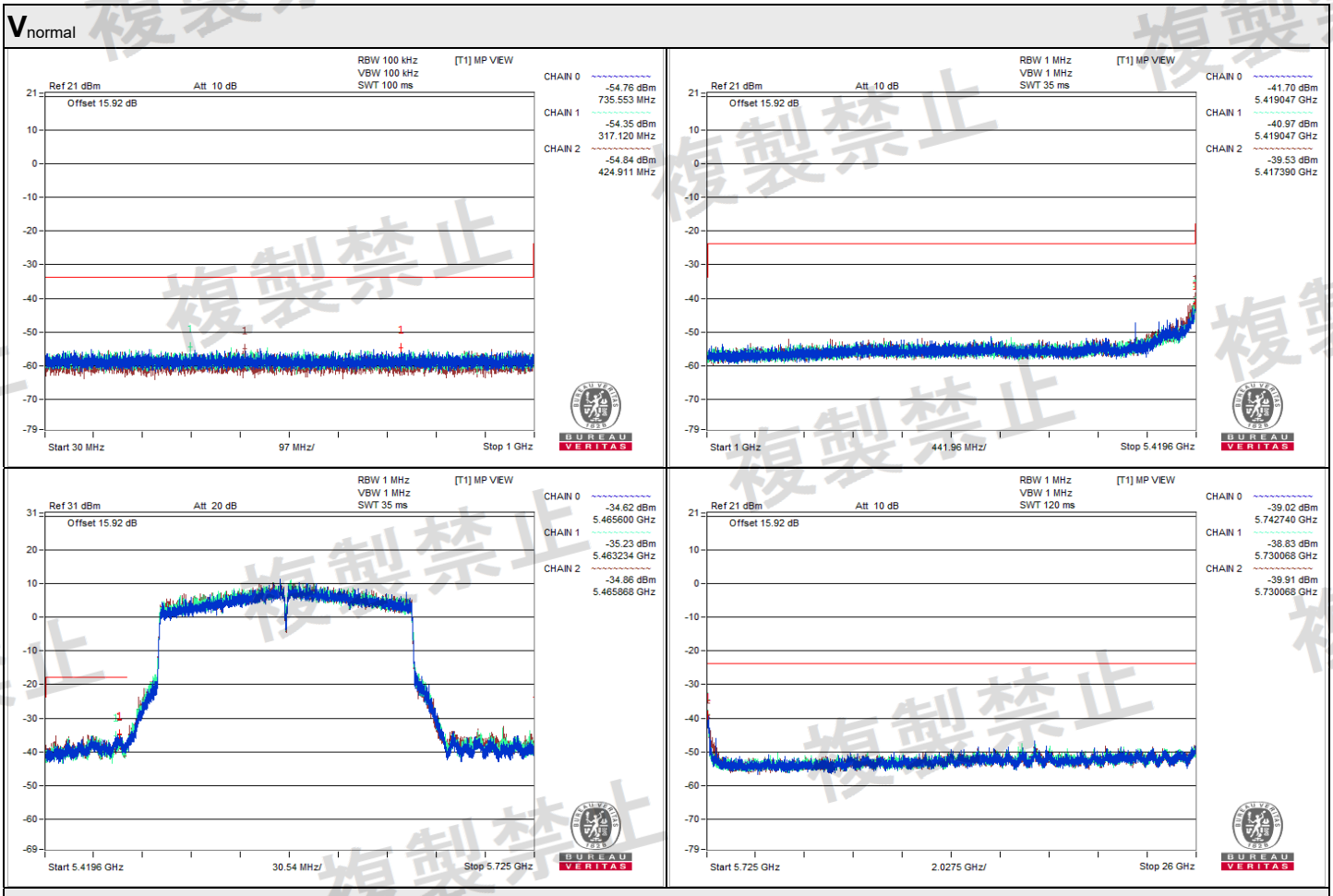
802.11ax (HE160) Chain 2 W56

TEST CHANNEL		CH 114 (5570 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	424.911	0.003281	0.416667 uW/100kHz	PASS
	1000.0 to 5419.6	5417.390	0.111429	4.166667 uW/MHz	PASS
	5419.6 to 5470.0	5465.868	0.326588	16.666667 uW/MHz	PASS
	5725.0 to 26000.0	5730.068	0.102094	4.166667 uW/MHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

802.11ax (HE160) Graph W56

Vnormal



CH 114 (5570 MHz)

802.11ax (HE160) [Worst result] x [Number of antenna ports] W56

TEST CHANNEL		CH 114 (5570 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(uW)	LIMIT (uW)	RESULT
V_{normal}	30.0 to 1000.0	0.011019	1.25uW/100kHz	PASS
	1000.0 to 5419.6	0.334287	12.5uW/MHz	PASS
	5419.6 to 5470.0	1.035432	50uW/MHz	PASS
	5725.0 to 26000.0	0.392754	12.5uW/MHz	PASS

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7.4 Spurious Emissions of Receiver

Environmental Conditions:	25°C, 65% RH	Tested By:	Chris Lin

20 MHz System: 802.11a / 802.11ac (VHT20) / 802.11ax (HE20) Chain 0

TEST CHANNEL		CH 36 (5180 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	529.792	0.001919	1.333333	PASS
	1000.0 to 26000.0	25934.375	0.043053	6.666667	PASS
TEST CHANNEL		**CH 48 (5240 MHz)**			
V_{normal}	30.0 to 1000.0	645.343	0.002009	1.333333	PASS
	1000.0 to 26000.0	19350.000	0.056105	6.666667	PASS
TEST CHANNEL		**CH 52 (5260 MHz)**			
V_{normal}	30.0 to 1000.0	47.096	0.001959	1.333333	PASS
	1000.0 to 26000.0	25943.750	0.043251	6.666667	PASS
TEST CHANNEL		**CH 64 (5320 MHz)**			
V_{normal}	30.0 to 1000.0	675.777	0.001941	1.333333	PASS
	1000.0 to 26000.0	25993.750	0.048753	6.666667	PASS
TEST CHANNEL		**CH 100 (5500 MHz)**			
V_{normal}	30.0 to 1000.0	729.855	0.001959	1.333333	PASS
	1000.0 to 26000.0	25946.875	0.045709	6.666667	PASS
TEST CHANNEL		**CH 120 (5600 MHz)**			
V_{normal}	30.0 to 1000.0	860.926	0.002228	1.333333	PASS
	1000.0 to 26000.0	25928.125	0.044259	6.666667	PASS
TEST CHANNEL		**CH 144 (5720 MHz)**			
V_{normal}	30.0 to 1000.0	255.161	0.002382	1.333333	PASS
	1000.0 to 26000.0	25909.375	0.039719	6.666667	PASS

20 MHz System: 802.11a / 802.11ac (VHT20) / 802.11ax (HE20) Chain 1

TEST CHANNEL		CH 36 (5180 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	471.471	0.001919	1.333333	PASS
	1000.0 to 26000.0	19350.000	0.044157	6.666667	PASS
TEST CHANNEL		CH 48 (5240 MHz)			
V_{normal}	30.0 to 1000.0	164.466	0.002018	1.333333	PASS
	1000.0 to 26000.0	25978.125	0.04529	6.666667	PASS
TEST CHANNEL		CH 52 (5260 MHz)			
V_{normal}	30.0 to 1000.0	957.320	0.002028	1.333333	PASS
	1000.0 to 26000.0	25937.500	0.042073	6.666667	PASS
TEST CHANNEL		CH 64 (5320 MHz)			
V_{normal}	30.0 to 1000.0	64.798	0.00177	1.333333	PASS
	1000.0 to 26000.0	25987.500	0.039994	6.666667	PASS
TEST CHANNEL		CH 100 (5500 MHz)			
V_{normal}	30.0 to 1000.0	712.152	0.002234	1.333333	PASS
	1000.0 to 26000.0	19306.250	0.043853	6.666667	PASS
TEST CHANNEL		CH 120 (5600 MHz)			
V_{normal}	30.0 to 1000.0	417.393	0.001879	1.333333	PASS
	1000.0 to 26000.0	19309.375	0.048195	6.666667	PASS
TEST CHANNEL		CH 144 (5720 MHz)			
V_{normal}	30.0 to 1000.0	712.152	0.001919	1.333333	PASS
	1000.0 to 26000.0	25978.125	0.044875	6.666667	PASS

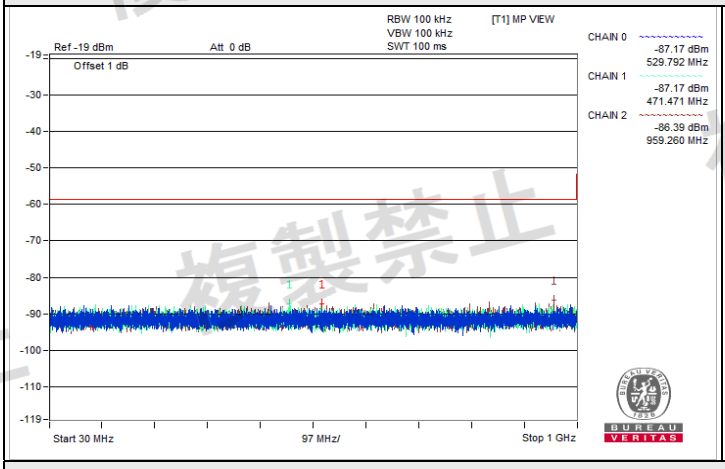
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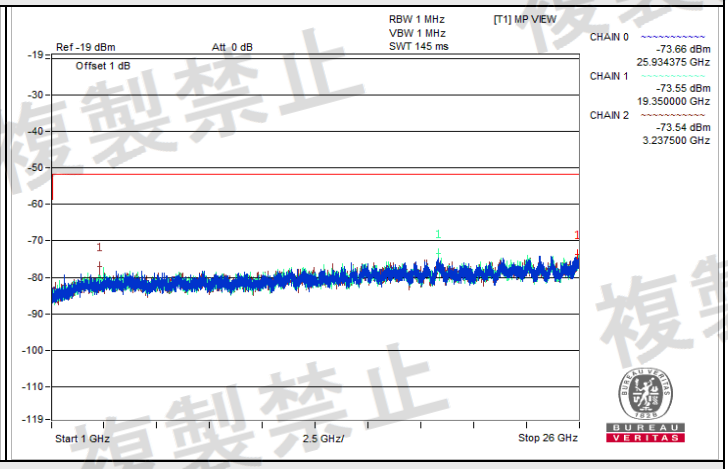
20 MHz System: 802.11a / 802.11ac (VHT20) / 802.11ax (HE20) Chain 2

TEST CHANNEL		CH 36 (5180 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	959.260	0.002296	1.333333	PASS
	1000.0 to 26000.0	3237.500	0.044259	6.666667	PASS
TEST CHANNEL		CH 48 (5240 MHz)			
V_{normal}	30.0 to 1000.0	607.028	0.001954	1.333333	PASS
	1000.0 to 26000.0	25862.500	0.038107	6.666667	PASS
TEST CHANNEL		CH 52 (5260 MHz)			
V_{normal}	30.0 to 1000.0	364.771	0.002773	1.333333	PASS
	1000.0 to 26000.0	25978.125	0.045394	6.666667	PASS
TEST CHANNEL		CH 64 (5320 MHz)			
V_{normal}	30.0 to 1000.0	215.512	0.001892	1.333333	PASS
	1000.0 to 26000.0	25959.375	0.046559	6.666667	PASS
TEST CHANNEL		CH 100 (5500 MHz)			
V_{normal}	30.0 to 1000.0	297.477	0.001774	1.333333	PASS
	1000.0 to 26000.0	25965.625	0.038194	6.666667	PASS
TEST CHANNEL		CH 120 (5600 MHz)			
V_{normal}	30.0 to 1000.0	226.910	0.001991	1.333333	PASS
	1000.0 to 26000.0	19346.875	0.059841	6.666667	PASS
TEST CHANNEL		CH 144 (5720 MHz)			
V_{normal}	30.0 to 1000.0	79.470	0.002208	1.333333	PASS
	1000.0 to 26000.0	19331.250	0.043752	6.666667	PASS

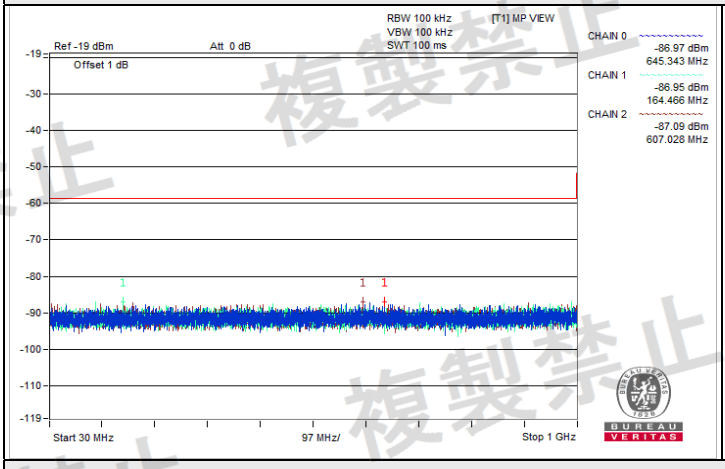
20 MHz System: 802.11a / 802.11ac (VHT20) / 802.11ax (HE20) Graph

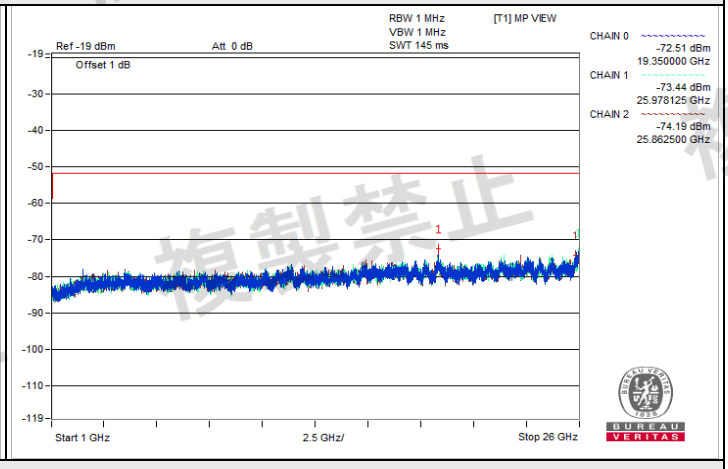
Vnormal



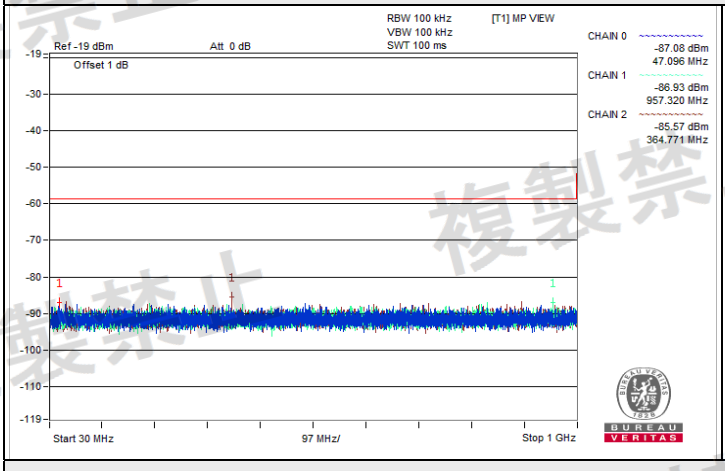


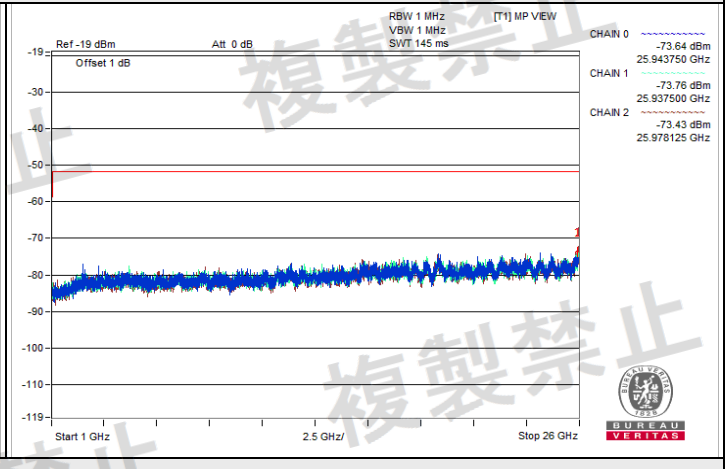
CH 36 (5180 MHz)





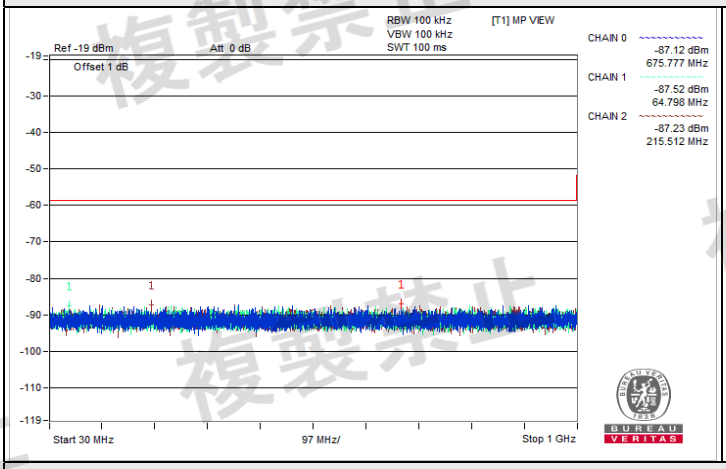
CH 48 (5240 MHz)

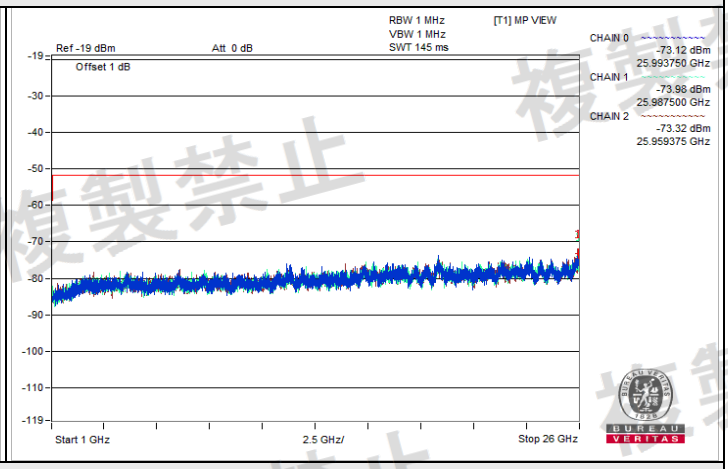




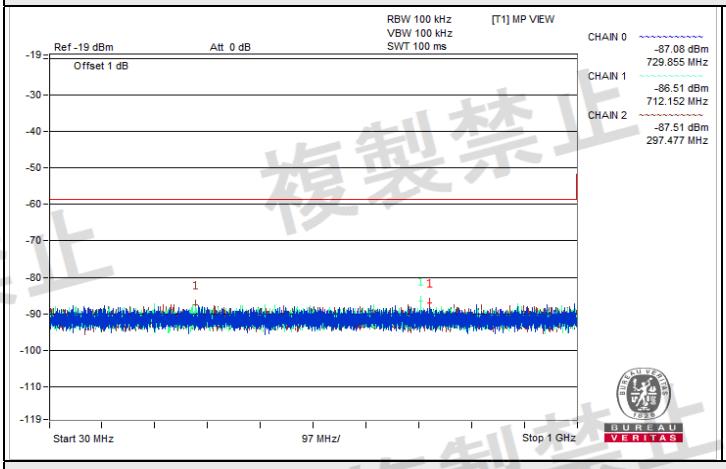
CH 52 (5260 MHz)

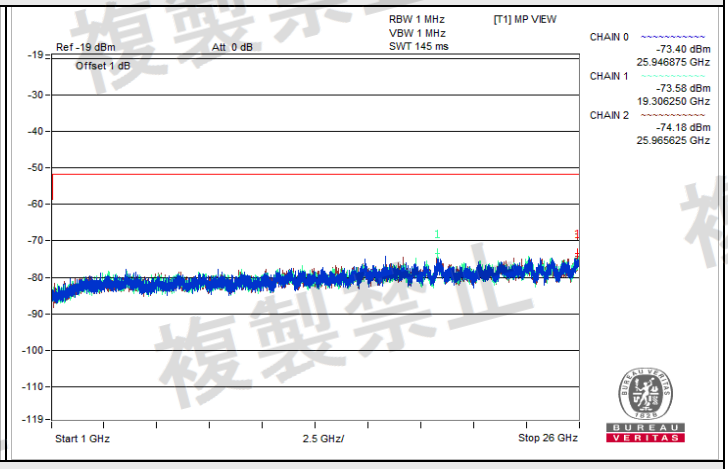
Vnormal



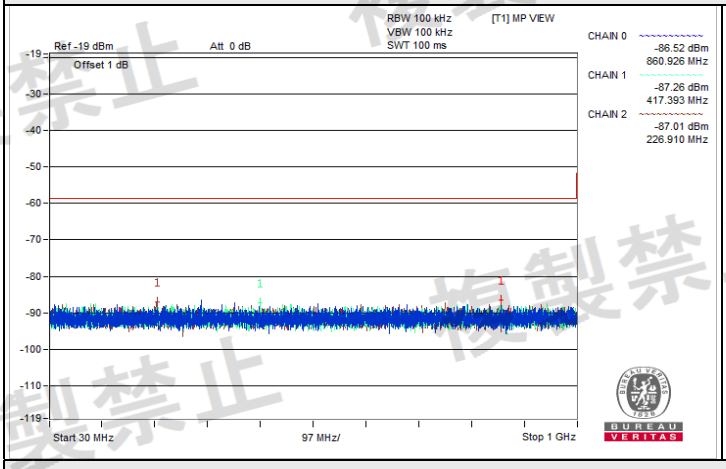


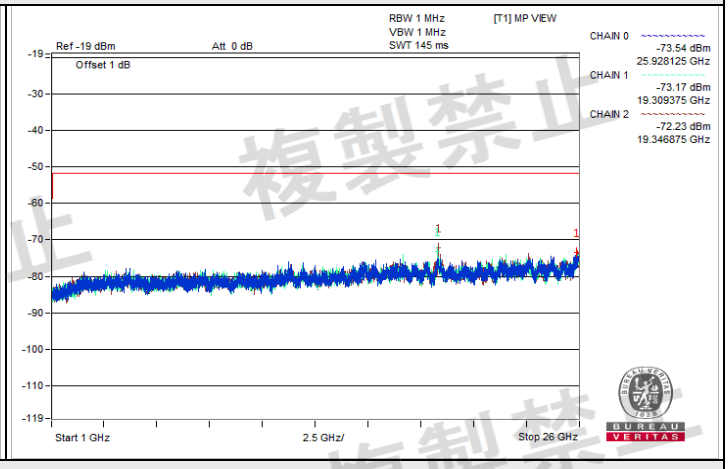
CH 64 (5320 MHz)





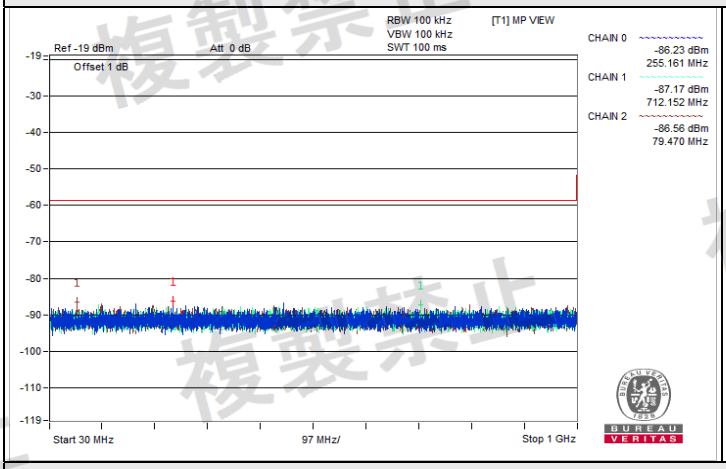
CH 100 (5500 MHz)

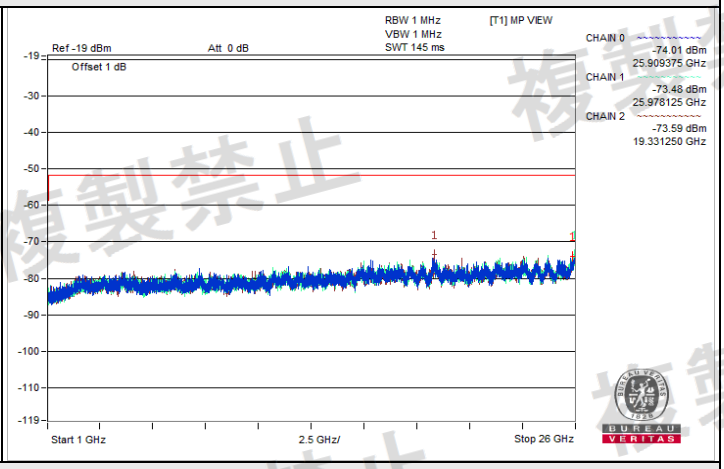




CH 120 (5600 MHz)

Vnormal





CH 144 (5720 MHz)

20 MHz System: 802.11a / 802.11ac (VHT20) / 802.11ax (HE20) Sum of each Chain

TEST CHANNEL		CH 36 (5180 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	0.006134	4	PASS
	1000.0 to 26000.0	0.131469	20	PASS
TEST CHANNEL		CH 48 (5240 MHz)		
V_{normal}	30.0 to 1000.0	0.005981	4	PASS
	1000.0 to 26000.0	0.139502	20	PASS
TEST CHANNEL		CH 52 (5260 MHz)		
V_{normal}	30.0 to 1000.0	0.006760	4	PASS
	1000.0 to 26000.0	0.130718	20	PASS
TEST CHANNEL		CH 64 (5320 MHz)		
V_{normal}	30.0 to 1000.0	0.005603	4	PASS
	1000.0 to 26000.0	0.135306	20	PASS
TEST CHANNEL		CH 100 (5500 MHz)		
V_{normal}	30.0 to 1000.0	0.005967	4	PASS
	1000.0 to 26000.0	0.127756	20	PASS
TEST CHANNEL		CH 120 (5600 MHz)		
V_{normal}	30.0 to 1000.0	0.006098	4	PASS
	1000.0 to 26000.0	0.152295	20	PASS
TEST CHANNEL		CH 144 (5720 MHz)		
V_{normal}	30.0 to 1000.0	0.006509	4	PASS
	1000.0 to 26000.0	0.128346	20	PASS

40 MHz System: 802.11ac (VHT40) / 802.11ax (HE40) Chain 0

TEST CHANNEL		CH 38 (5190 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	360.042	0.002377	1.333333	PASS
	1000.0 to 26000.0	25903.125	0.051761	6.666667	PASS
TEST CHANNEL		CH 46 (5230 MHz)			
V_{normal}	30.0 to 1000.0	489.901	0.002061	1.333333	PASS
	1000.0 to 26000.0	24725.000	0.044875	6.666667	PASS
TEST CHANNEL		CH 54 (5270 MHz)			
V_{normal}	30.0 to 1000.0	998.181	0.002944	1.333333	PASS
	1000.0 to 26000.0	25837.500	0.045709	6.666667	PASS
TEST CHANNEL		CH 62 (5310 MHz)			
V_{normal}	30.0 to 1000.0	760.410	0.002421	1.333333	PASS
	1000.0 to 26000.0	19340.625	0.056494	6.666667	PASS
TEST CHANNEL		CH 102 (5510 MHz)			
V_{normal}	30.0 to 1000.0	203.872	0.002138	1.333333	PASS
	1000.0 to 26000.0	25996.875	0.074989	6.666667	PASS
TEST CHANNEL		CH 118 (5590 MHz)			
V_{normal}	30.0 to 1000.0	531.490	0.002466	1.333333	PASS
	1000.0 to 26000.0	1765.625	0.049888	6.666667	PASS
TEST CHANNEL		CH 142 (5710 MHz)			
V_{normal}	30.0 to 1000.0	831.220	0.002109	1.333333	PASS
	1000.0 to 26000.0	25968.750	0.05035	6.666667	PASS

40 MHz System: 802.11ac (VHT40) / 802.11ax (HE40) Chain 1

TEST CHANNEL		CH 38 (5190 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	210.662	0.002291	1.333333	PASS
	1000.0 to 26000.0	19346.875	0.043652	6.666667	PASS
TEST CHANNEL		CH 46 (5230 MHz)			
V_{normal}	30.0 to 1000.0	552.102	0.002244	1.333333	PASS
	1000.0 to 26000.0	25884.375	0.047643	6.666667	PASS
TEST CHANNEL		CH 54 (5270 MHz)			
V_{normal}	30.0 to 1000.0	648.981	0.002535	1.333333	PASS
	1000.0 to 26000.0	26000.000	0.046881	6.666667	PASS
TEST CHANNEL		CH 62 (5310 MHz)			
V_{normal}	30.0 to 1000.0	480.928	0.002301	1.333333	PASS
	1000.0 to 26000.0	25937.500	0.045186	6.666667	PASS
TEST CHANNEL		CH 102 (5510 MHz)			
V_{normal}	30.0 to 1000.0	943.255	0.002254	1.333333	PASS
	1000.0 to 26000.0	25878.125	0.050699	6.666667	PASS
TEST CHANNEL		CH 118 (5590 MHz)			
V_{normal}	30.0 to 1000.0	366.590	0.002377	1.333333	PASS
	1000.0 to 26000.0	24184.375	0.047534	6.666667	PASS
TEST CHANNEL		CH 142 (5710 MHz)			
V_{normal}	30.0 to 1000.0	99.840	0.002421	1.333333	PASS
	1000.0 to 26000.0	19346.875	0.042954	6.666667	PASS

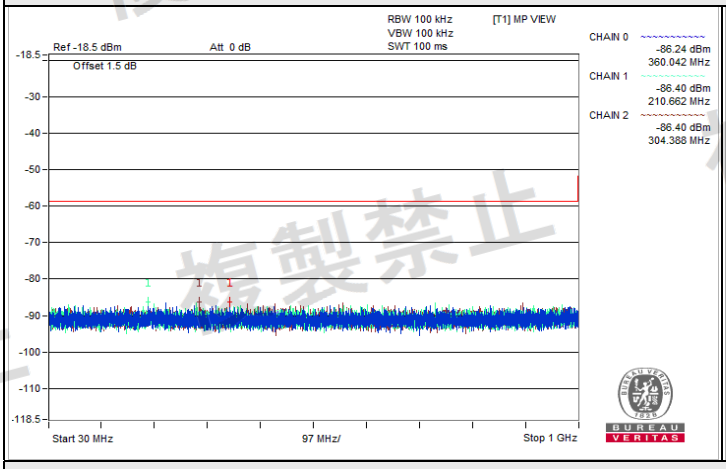
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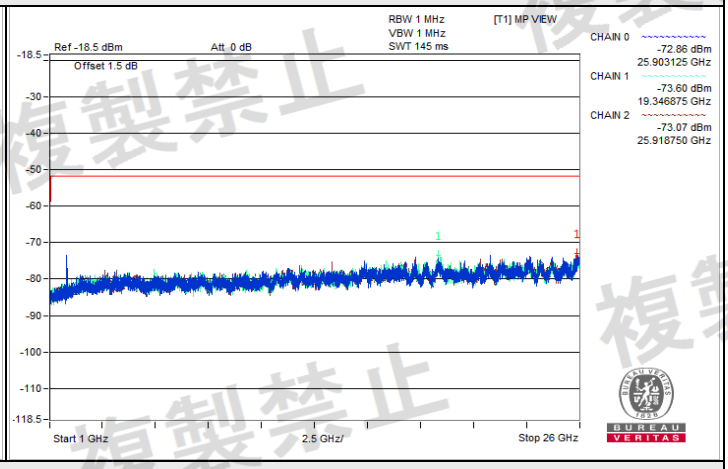
40 MHz System: 802.11ac (VHT40) / 802.11ax (HE40) Chain 2

TEST CHANNEL		CH 38 (5190 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	304.388	0.002291	1.333333	PASS
	1000.0 to 26000.0	25918.750	0.049317	6.666667	PASS
TEST CHANNEL		CH 46 (5230 MHz)			
V_{normal}	30.0 to 1000.0	751.680	0.002805	1.333333	PASS
	1000.0 to 26000.0	25965.625	0.043752	6.666667	PASS
TEST CHANNEL		CH 54 (5270 MHz)			
V_{normal}	30.0 to 1000.0	208.601	0.002399	1.333333	PASS
	1000.0 to 26000.0	22443.750	0.040926	6.666667	PASS
TEST CHANNEL		CH 62 (5310 MHz)			
V_{normal}	30.0 to 1000.0	632.733	0.002173	1.333333	PASS
	1000.0 to 26000.0	25990.625	0.046881	6.666667	PASS
TEST CHANNEL		CH 102 (5510 MHz)			
V_{normal}	30.0 to 1000.0	226.425	0.002178	1.333333	PASS
	1000.0 to 26000.0	25975.000	0.047643	6.666667	PASS
TEST CHANNEL		CH 118 (5590 MHz)			
V_{normal}	30.0 to 1000.0	298.447	0.002958	1.333333	PASS
	1000.0 to 26000.0	23528.125	0.045814	6.666667	PASS
TEST CHANNEL		CH 142 (5710 MHz)			
V_{normal}	30.0 to 1000.0	205.570	0.002382	1.333333	PASS
	1000.0 to 26000.0	25978.125	0.053951	6.666667	PASS

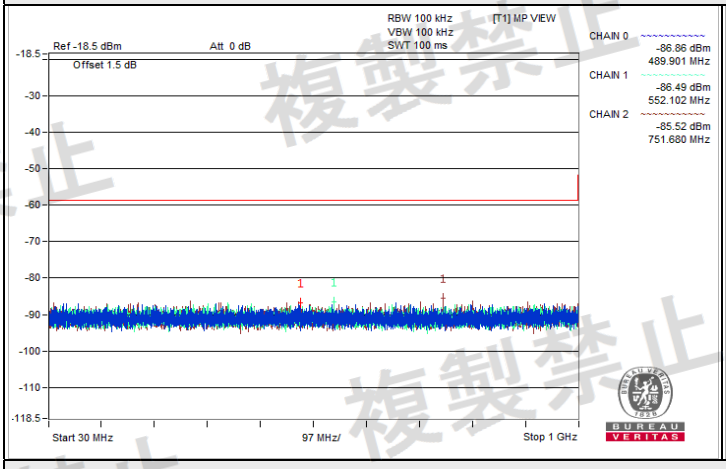
40 MHz System: 802.11ac (VHT40) / 802.11ax (HE40) Graph

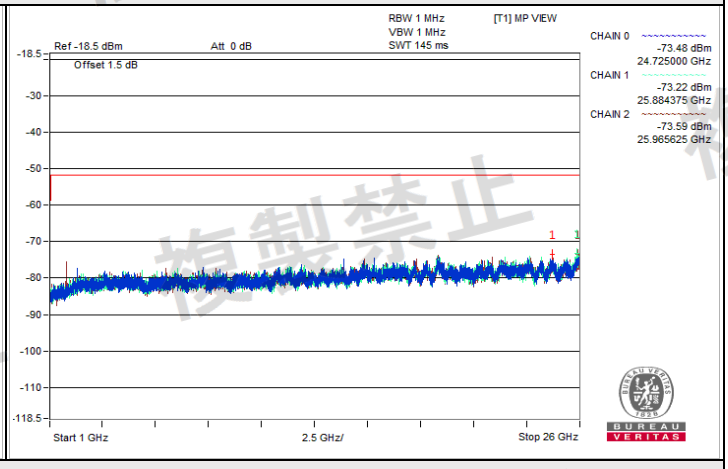
Vnormal



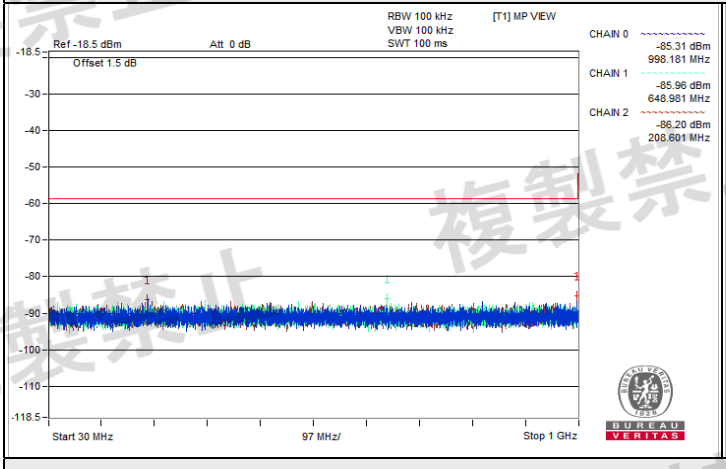


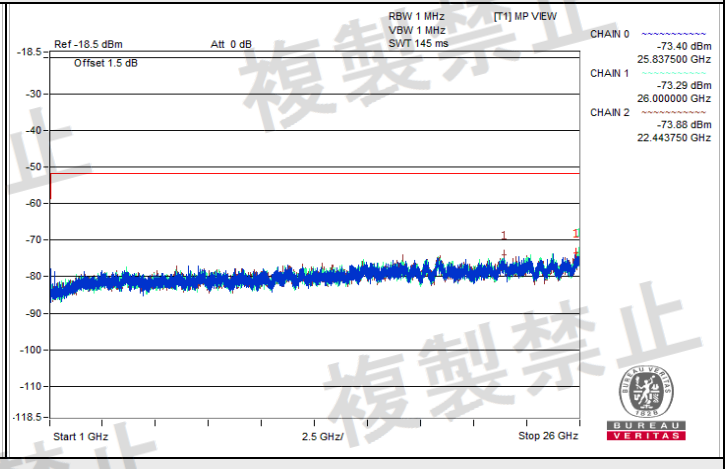
CH 38 (5190 MHz)





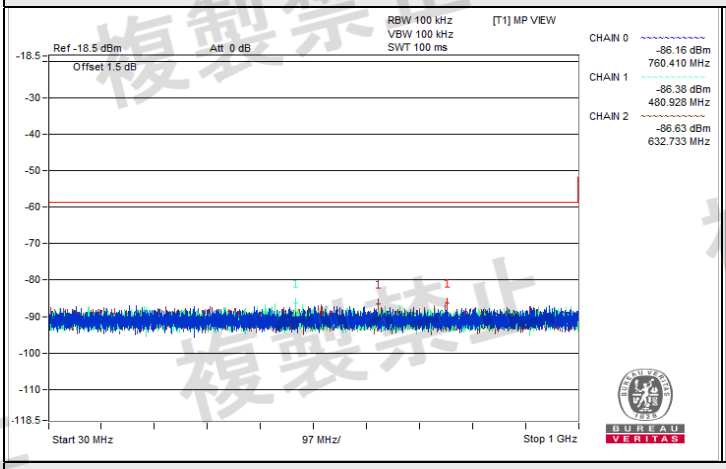
CH 46 (5230 MHz)

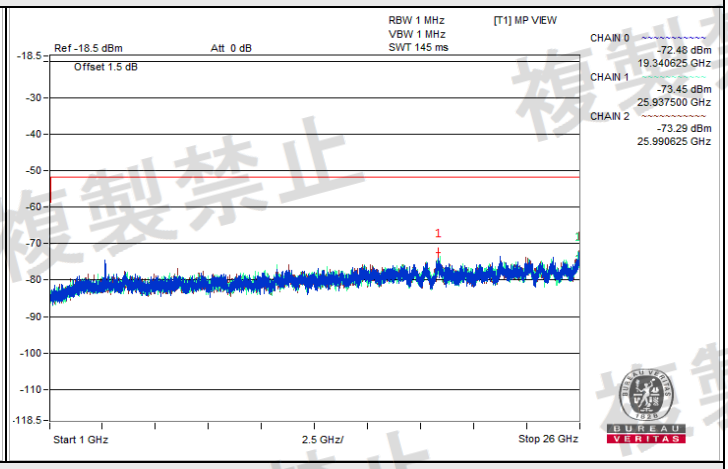




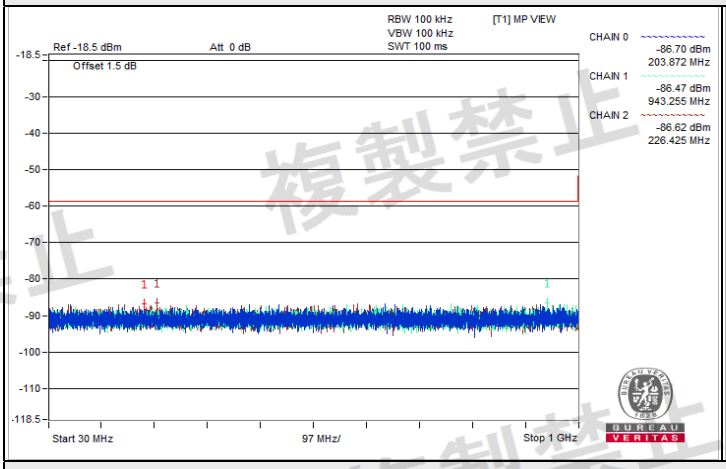
CH 54 (5270 MHz)

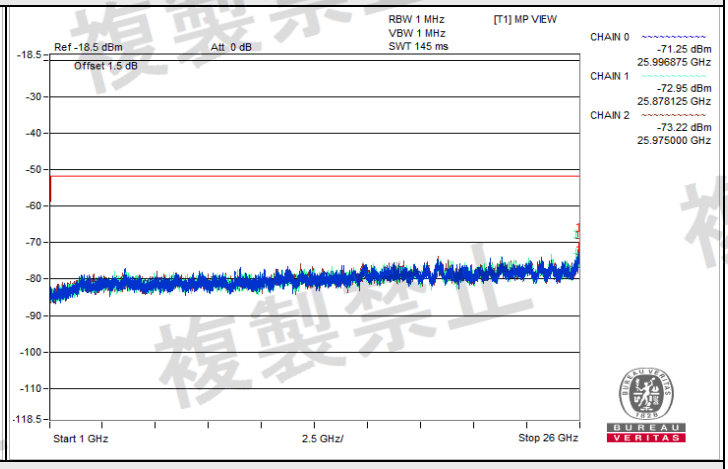
Vnormal



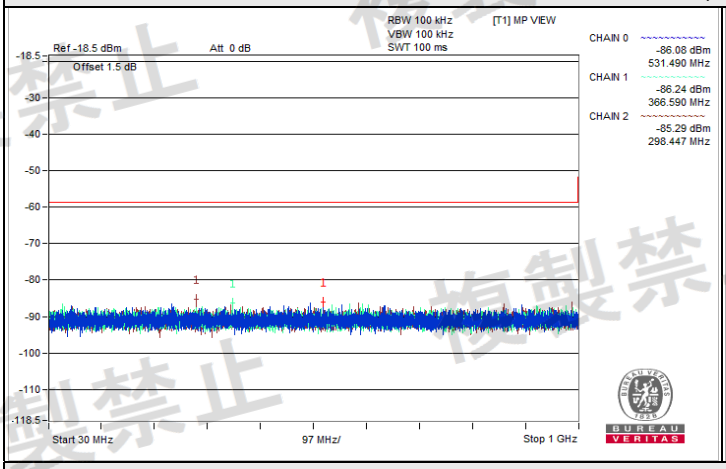


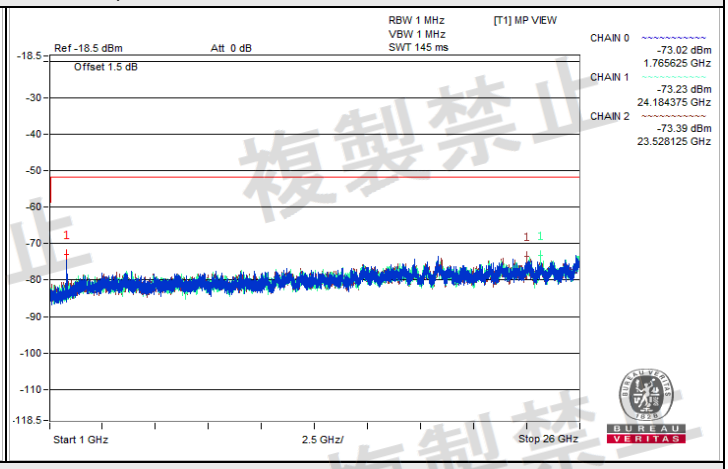
CH 62 (5310 MHz)





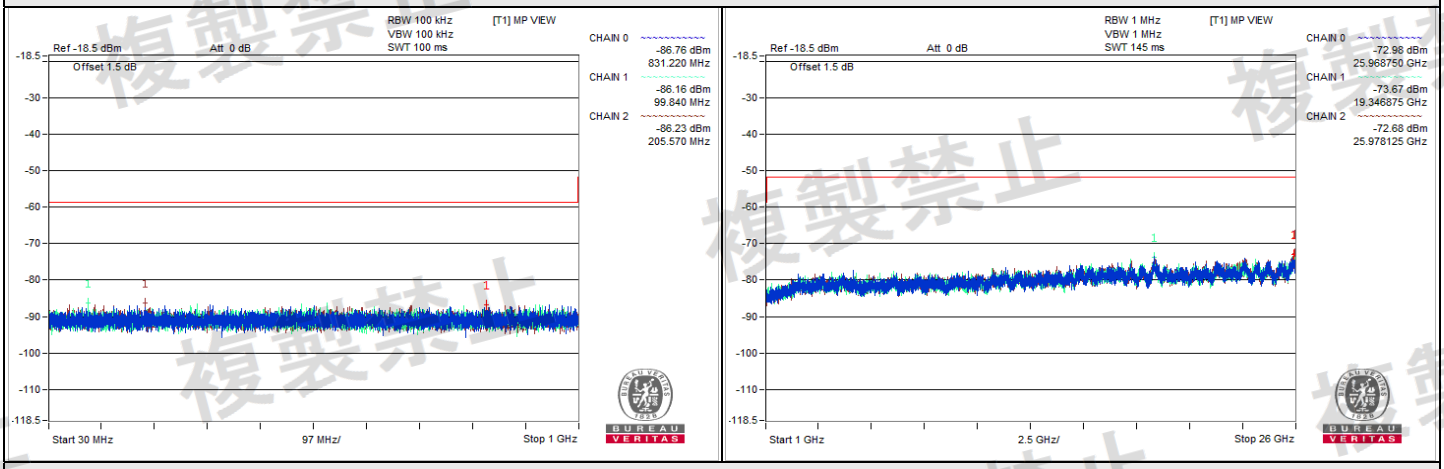
CH 102 (5510 MHz)





CH 118 (5590 MHz)

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V_{normal}

CH 142 (5710 MHz)

40 MHz System: 802.11ac (VHT40) / 802.11ax (HE40) Sum of each Chain

TEST CHANNEL		CH 38 (5190 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	0.006959	4	PASS
	1000.0 to 26000.0	0.144730	20	PASS
TEST CHANNEL		CH 46 (5230 MHz)		
V_{normal}	30.0 to 1000.0	0.007110	4	PASS
	1000.0 to 26000.0	0.136270	20	PASS
TEST CHANNEL		CH 54 (5270 MHz)		
V_{normal}	30.0 to 1000.0	0.007878	4	PASS
	1000.0 to 26000.0	0.133516	20	PASS
TEST CHANNEL		CH 62 (5310 MHz)		
V_{normal}	30.0 to 1000.0	0.006895	4	PASS
	1000.0 to 26000.0	0.148561	20	PASS
TEST CHANNEL		CH 102 (5510 MHz)		
V_{normal}	30.0 to 1000.0	0.006570	4	PASS
	1000.0 to 26000.0	0.173331	20	PASS
TEST CHANNEL		CH 118 (5590 MHz)		
V_{normal}	30.0 to 1000.0	0.007801	4	PASS
	1000.0 to 26000.0	0.143236	20	PASS
TEST CHANNEL		CH 142 (5710 MHz)		
V_{normal}	30.0 to 1000.0	0.006912	4	PASS
	1000.0 to 26000.0	0.147255	20	PASS

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80 MHz System: 802.11ac (VHT80) / 802.11ax (HE80) Chain 0

TEST CHANNEL		CH 42 (5210 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	995.392	0.002606	1.333333	PASS
	1000.0 to 26000.0	25940.625	0.041591	6.666667	PASS
TEST CHANNEL		CH 58 (5290 MHz)			
V_{normal}	30.0 to 1000.0	441.158	0.002249	1.333333	PASS
	1000.0 to 26000.0	25946.875	0.048306	6.666667	PASS
TEST CHANNEL		CH 106 (5530 MHz)			
V_{normal}	30.0 to 1000.0	910.638	0.002173	1.333333	PASS
	1000.0 to 26000.0	19325.000	0.041687	6.666667	PASS
TEST CHANNEL		CH 122 (5610 MHz)			
V_{normal}	30.0 to 1000.0	930.887	0.002393	1.333333	PASS
	1000.0 to 26000.0	25975.000	0.052845	6.666667	PASS
TEST CHANNEL		CH 138 (5690 MHz)			
V_{normal}	30.0 to 1000.0	656.013	0.002296	1.333333	PASS
	1000.0 to 26000.0	25962.500	0.048084	6.666667	PASS

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80 MHz System: 802.11ac (VHT80) / 802.11ax (HE80) Chain 1

TEST CHANNEL		CH 42 (5210 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	759.561	0.002432	1.333333	PASS
	1000.0 to 26000.0	25971.875	0.044361	6.666667	PASS
TEST CHANNEL		CH 58 (5290 MHz)			
V_{normal}	30.0 to 1000.0	638.917	0.002158	1.333333	PASS
	1000.0 to 26000.0	23637.500	0.048865	6.666667	PASS
TEST CHANNEL		CH 106 (5530 MHz)			
V_{normal}	30.0 to 1000.0	362.225	0.002415	1.333333	PASS
	1000.0 to 26000.0	1756.250	0.174582	6.666667	PASS
TEST CHANNEL		CH 122 (5610 MHz)			
V_{normal}	30.0 to 1000.0	220.120	0.002667	1.333333	PASS
	1000.0 to 26000.0	25996.875	0.081283	6.666667	PASS
TEST CHANNEL		CH 138 (5690 MHz)			
V_{normal}	30.0 to 1000.0	968.596	0.002301	1.333333	PASS
	1000.0 to 26000.0	25971.875	0.049091	6.666667	PASS

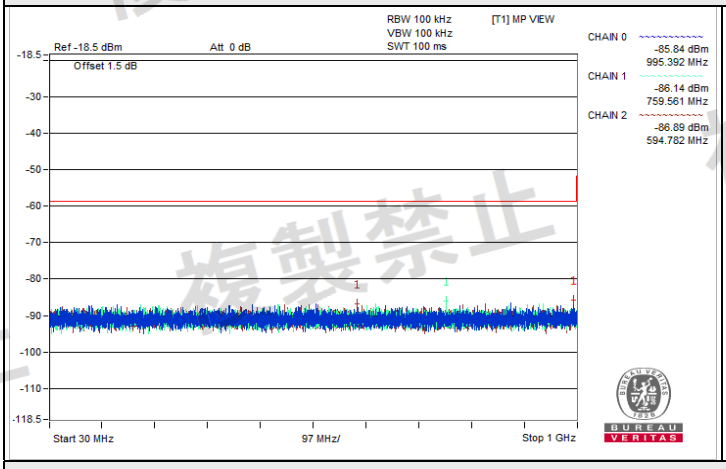
80 MHz System: 802.11ac (VHT80) / 802.11ax (HE80) Chain 2

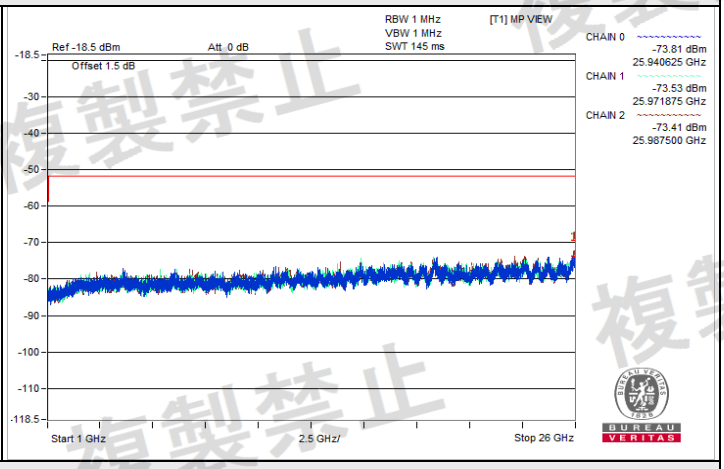
TEST CHANNEL		CH 42 (5210 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	594.782	0.002046	1.333333	PASS
	1000.0 to 26000.0	25987.500	0.045604	6.666667	PASS
TEST CHANNEL		CH 58 (5290 MHz)			
V_{normal}	30.0 to 1000.0	467.712	0.002168	1.333333	PASS
	1000.0 to 26000.0	25978.125	0.050466	6.666667	PASS
TEST CHANNEL		CH 106 (5530 MHz)			
V_{normal}	30.0 to 1000.0	996.241	0.002228	1.333333	PASS
	1000.0 to 26000.0	24700.000	0.05358	6.666667	PASS
TEST CHANNEL		CH 122 (5610 MHz)			
V_{normal}	30.0 to 1000.0	218.422	0.002143	1.333333	PASS
	1000.0 to 26000.0	24737.500	0.041687	6.666667	PASS
TEST CHANNEL		CH 138 (5690 MHz)			
V_{normal}	30.0 to 1000.0	862.502	0.002489	1.333333	PASS
	1000.0 to 26000.0	25875.000	0.050816	6.666667	PASS

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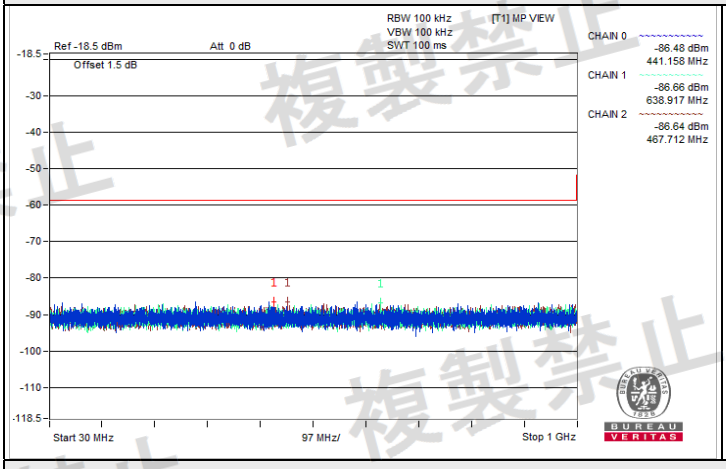
80 MHz System: 802.11ac (VHT80) / 802.11ax (HE80) Graph

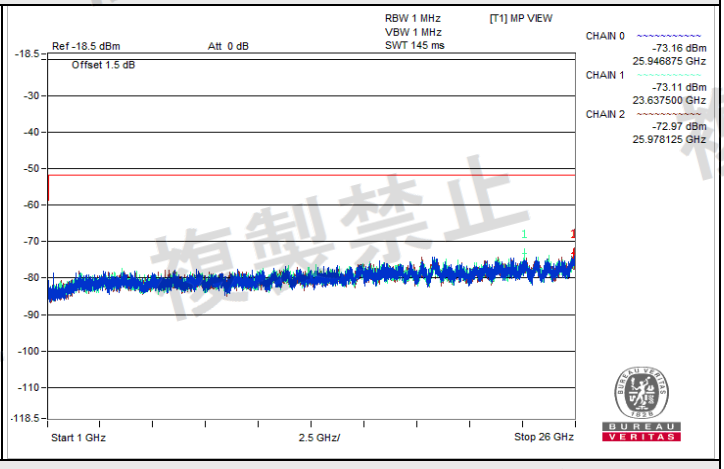
Vnormal



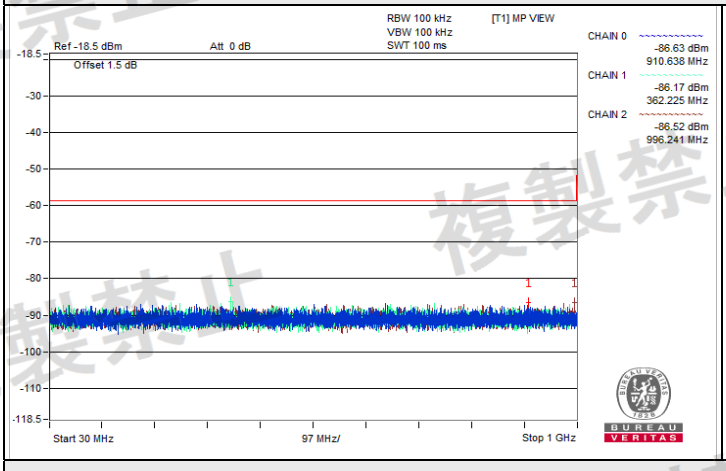


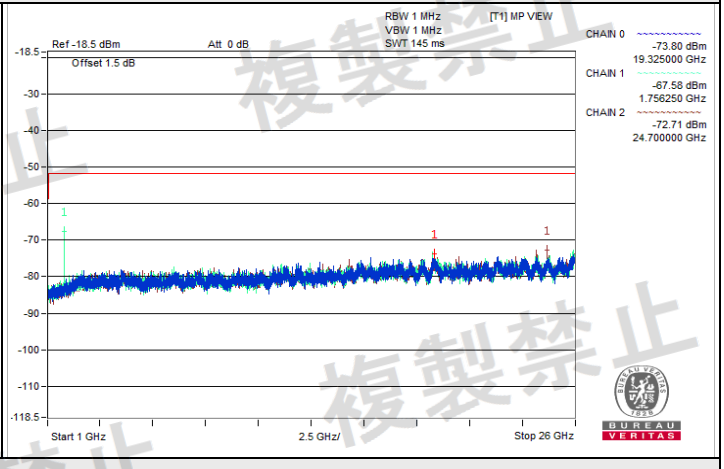
CH 42 (5210 MHz)





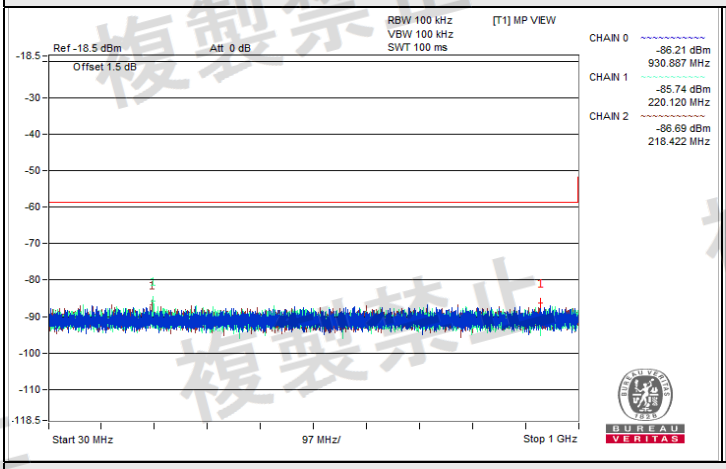
CH 58 (5290 MHz)

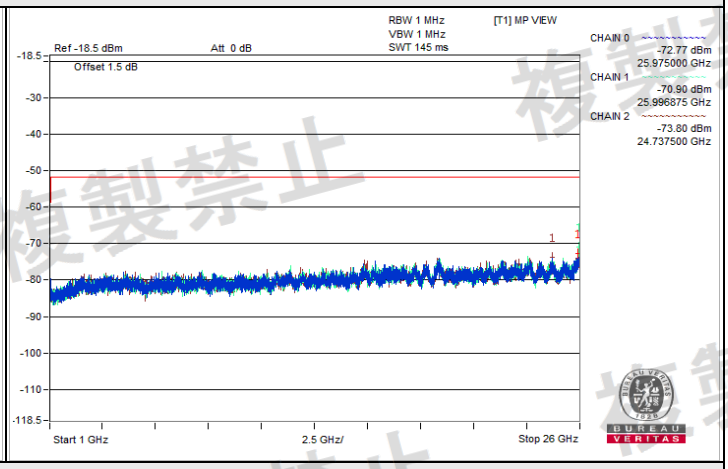




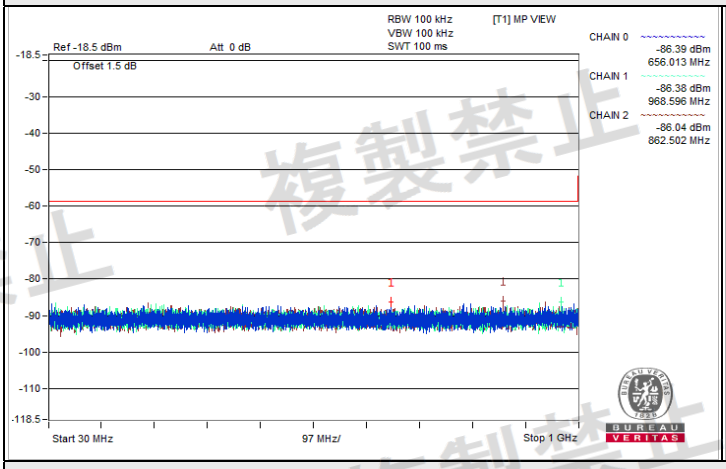
CH 106 (5530 MHz)

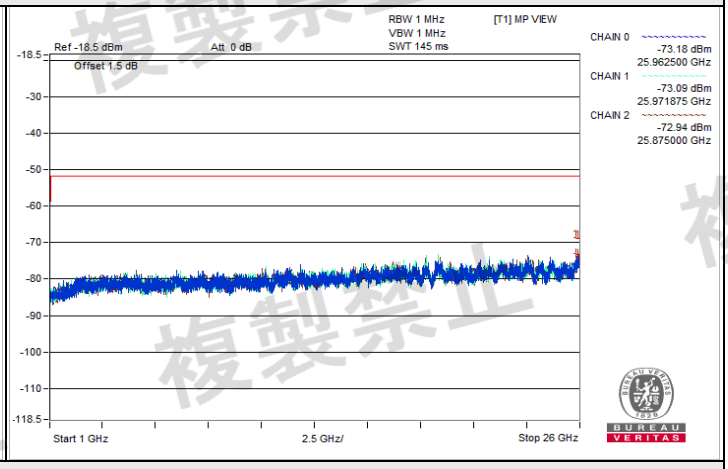
Vnormal





CH 122 (5610 MHz)





CH 138 (5690 MHz)

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80 MHz System: 802.11ac (VHT80) / 802.11ax (HE80) Sum of each Chain

TEST CHANNEL		CH 42 (5210 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	0.007084	4	PASS
	1000.0 to 26000.0	0.131556	20	PASS
TEST CHANNEL		CH 58 (5290 MHz)		
V_{normal}	30.0 to 1000.0	0.006575	4	PASS
	1000.0 to 26000.0	0.147637	20	PASS
TEST CHANNEL		CH 106 (5530 MHz)		
V_{normal}	30.0 to 1000.0	0.006816	4	PASS
	1000.0 to 26000.0	0.269849	20	PASS
TEST CHANNEL		CH 122 (5610 MHz)		
V_{normal}	30.0 to 1000.0	0.007203	4	PASS
	1000.0 to 26000.0	0.175815	20	PASS
TEST CHANNEL		CH 138 (5690 MHz)		
V_{normal}	30.0 to 1000.0	0.007086	4	PASS
	1000.0 to 26000.0	0.147991	20	PASS

160 MHz System: 802.11ac (VHT160) / 802.11ax (HE160) Chain 0

TEST CHANNEL		CH 50 (5250 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	274.803	0.002148	1.333333	PASS
	1000.0 to 26000.0	25937.500	0.040272	6.666667	PASS
TEST CHANNEL		CH 114 (5570 MHz)			
V_{normal}	30.0 to 1000.0	609.090	0.002382	1.333333	PASS
	1000.0 to 26000.0	25950.000	0.05105	6.666667	PASS

160 MHz System: 802.11ac (VHT160) / 802.11ax (HE160) Chain 1

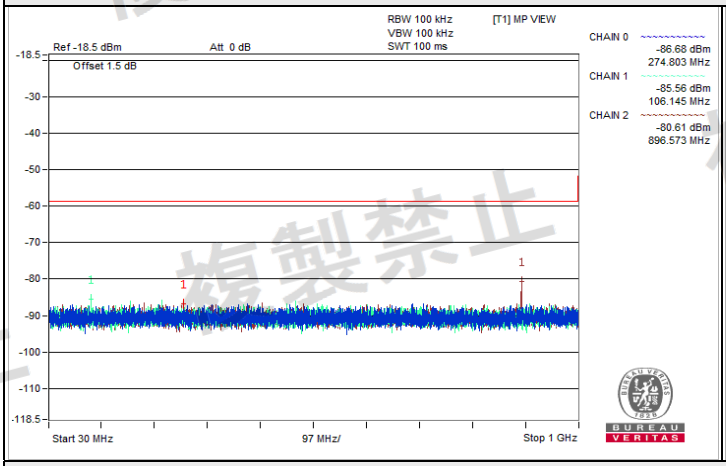
TEST CHANNEL		CH 50 (5250 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	106.145	0.00278	1.333333	PASS
	1000.0 to 26000.0	19346.875	0.049774	6.666667	PASS
TEST CHANNEL		CH 114 (5570 MHz)			
V_{normal}	30.0 to 1000.0	652.133	0.002871	1.333333	PASS
	1000.0 to 26000.0	25862.500	0.040179	6.666667	PASS

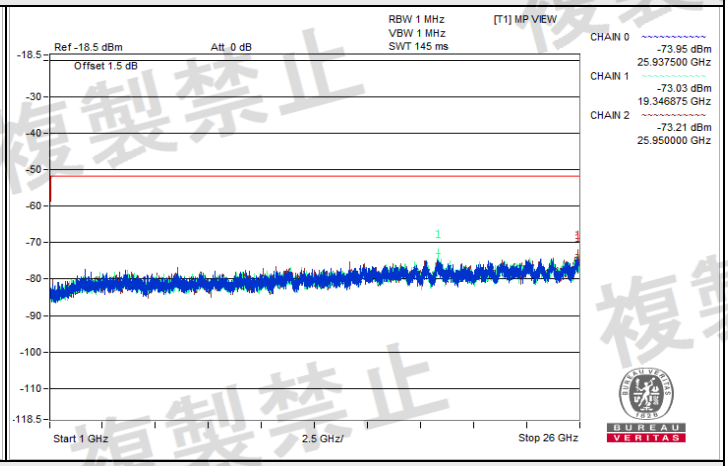
160 MHz System: 802.11ac (VHT160) / 802.11ax (HE160) Chain 2

TEST CHANNEL		CH 50 (5250 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	896.573	0.00869	1.333333	PASS
	1000.0 to 26000.0	25950.000	0.047753	6.666667	PASS
TEST CHANNEL		CH 114 (5570 MHz)			
V_{normal}	30.0 to 1000.0	135.002	0.002286	1.333333	PASS
	1000.0 to 26000.0	22334.375	0.04529	6.666667	PASS

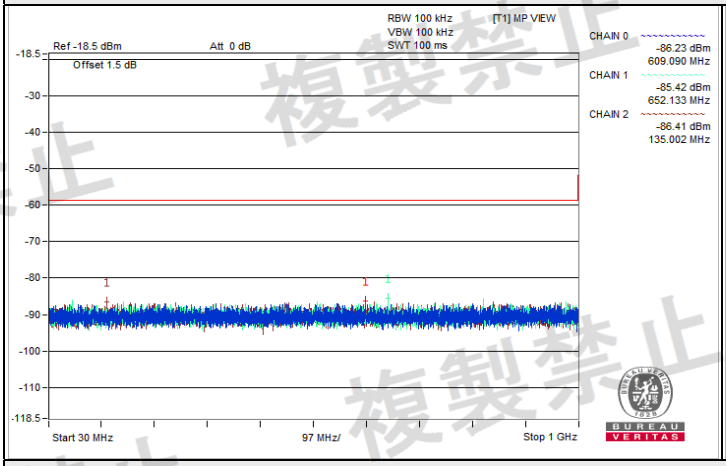
160 MHz System: 802.11ac (VHT160) / 802.11ax (HE160) Graph

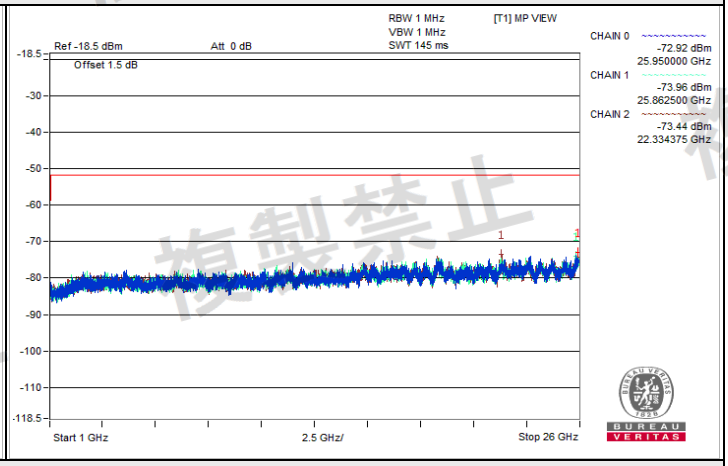
Vnormal





CH 50 (5250 MHz)





CH 114 (5570 MHz)

160 MHz System: 802.11ac (VHT160) / 802.11ax (HE160) Sum of each Chain

TEST CHANNEL		CH 50 (5250 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	0.013618	4	PASS
	1000.0 to 26000.0	0.137799	20	PASS
TEST CHANNEL		CH 114 (5570 MHz)		
V_{normal}	30.0 to 1000.0	0.007539	4	PASS
	1000.0 to 26000.0	0.136519	20	PASS

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7.5 Antenna Power

Environmental Conditions:	25°C, 60% RH	Tested By:	Chris Lin

802.11a W52&W53

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	36	5180	1.097	1.074	1.072	3.243	9.056
	48	5240	1.120	1.035	1.084	3.239	9.045
	52	5260	1.130	1.175	1.159	3.464	9.174
	64	5320	1.138	1.148	1.104	3.390	8.978
Maximum Limit (mW/MHz):						10	-
Rated Power (mW/MHz):						3.3	-
Tolerance of Antenna Power (mW/MHz):						0.66 ~ 3.96	-
Maximum EIRP Limit (mW/MHz):						-	10

Notes:

1. Antenna gain of 5150 to 5250 MHz is 4.46 dBi.
2. Antenna gain of 5250 to 5350 MHz is 4.23 dBi.
3. The radiated RF output power density is a “calculated” value derived from the conducted value.
4. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11a W56

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	100	5500	3.091	3.252	3.021	9.364	25.910
	120	5600	2.965	3.274	3.042	9.281	25.680
	144	5720	3.289	3.413	3.070	9.772	27.039
Maximum Limit (mW/MHz):						10	-
Rated Power (mW/MHz):						10	-
Tolerance of Antenna Power (mW/MHz):						5 ~ 15	-
Maximum EIRP Limit (mW/MHz):						-	50

Notes:

1. Antenna gain is 4.42 dBi.
2. The radiated RF output power density is a “calculated” value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ac (VHT20) W52&W53

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	36	5180	1.164	1.192	1.059	3.415	9.537
	48	5240	1.122	1.092	1.094	3.308	9.238
	52	5260	1.084	1.140	1.067	3.291	8.716
	64	5320	1.130	1.125	1.072	3.327	8.812
Maximum Limit (mW/MHz):						10	-
Rated Power (mW/MHz):						3.3	-
Tolerance of Antenna Power (mW/MHz):						0.66 ~ 3.96	-
Maximum EIRP Limit (mW/MHz):						-	10

Notes:

1. Antenna gain of 5150 to 5250 MHz is 4.46 dBi.
2. Antenna gain of 5250 to 5350 MHz is 4.23 dBi.
3. The radiated RF output power density is a “calculated” value derived from the conducted value.
4. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ac (VHT20) W56

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	100	5500	2.993	3.105	3.229	9.327	25.807
	120	5600	3.141	3.200	3.070	9.411	26.040
	144	5720	3.163	3.105	2.952	9.220	25.511
Maximum Limit (mW/MHz):						10	-
Rated Power (mW/MHz):						10	-
Tolerance of Antenna Power (mW/MHz):						5 ~ 15	-
Maximum EIRP Limit (mW/MHz):						-	50

Notes:

1. Antenna gain is 4.42 dBi.
2. The radiated RF output power density is a “calculated” value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

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802.11ac (VHT40) W52&W53

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	38	5190	0.564	0.540	0.514	1.618	4.518
	46	5230	0.577	0.555	0.527	1.659	4.633
	54	5270	0.581	0.582	0.566	1.729	4.579
	62	5310	0.617	0.589	0.564	1.770	4.688
Maximum Limit (mW/MHz):						5	-
Rated Power (mW/MHz):						1.65	-
Tolerance of Antenna Power (mW/MHz):						0.33 ~ 1.98	-
Maximum EIRP Limit (mW/MHz):						-	5

Notes:

1. Antenna gain of 5150 to 5250 MHz is 4.46 dBi.
2. Antenna gain of 5250 to 5350 MHz is 4.23 dBi.
3. The radiated RF output power density is a “calculated” value derived from the conducted value.
4. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ac (VHT40) W56

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	102	5510	1.476	1.538	1.416	4.430	12.258
	118	5590	1.538	1.493	1.439	4.470	12.368
	142	5710	1.535	1.490	1.473	4.498	12.446
Maximum Limit (mW/MHz):						5	-
Rated Power (mW/MHz):						5	-
Tolerance of Antenna Power (mW/MHz):						2.5 ~ 7.5	-
Maximum EIRP Limit (mW/MHz):						-	25

Notes:

1. Antenna gain is 4.42 dBi.
2. The radiated RF output power density is a “calculated” value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ac (VHT80) W52&W53

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	42	5210	0.293	0.269	0.281	0.843	2.354
	58	5290	0.299	0.288	0.285	0.872	2.309
Maximum Limit (mW/MHz):						2.5	-
Rated Power (mW/MHz):						0.825	-
Tolerance of Antenna Power (mW/MHz):						0.165 ~ 0.99	-
Maximum EIRP Limit (mW/MHz):						-	2.5

Notes:

1. Antenna gain of 5150 to 5250 MHz is 4.46 dBi.
2. Antenna gain of 5250 to 5350 MHz is 4.23 dBi.
3. The radiated RF output power density is a “calculated” value derived from the conducted value.
4. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ac (VHT80) W56

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	106	5530	0.817	0.750	0.762	2.329	6.444
	122	5610	0.766	0.730	0.778	2.274	6.292
	138	5690	0.766	0.723	0.771	2.260	6.253
Maximum Limit (mW/MHz):						2.5	-
Rated Power (mW/MHz):						2.5	-
Tolerance of Antenna Power (mW/MHz):						1.25 ~ 3.75	-
Maximum EIRP Limit (mW/MHz):						-	12.5

Notes:

1. Antenna gain is 4.42 dBi.
2. The radiated RF output power density is a “calculated” value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

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802.11ac (VHT160) W52&W53

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	50	5250	0.137	0.136	0.139	0.412	1.151
Maximum Limit (mW/MHz):						1.25	-
Rated Power (mW/MHz):						0.4125	-
Tolerance of Antenna Power (mW/MHz):						0.0825 ~ 0.495	-
Maximum EIRP Limit (mW/MHz):						-	1.25

Notes:

1. Antenna gain is 4.46 dBi.
2. The radiated RF output power density is a “calculated” value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ac (VHT160) W56

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	114	5570	0.375	0.393	0.364	1.132	3.132
Maximum Limit (mW/MHz):						1.25	-
Rated Power (mW/MHz):						1.25	-
Tolerance of Antenna Power (mW/MHz):						0.625 ~ 1.875	-
Maximum EIRP Limit (mW/MHz):						-	6.25

Notes:

1. Antenna gain is 4.42 dBi.
2. The radiated RF output power density is a “calculated” value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ax (HE20) W52&W53

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	36	5180	1.203	1.228	1.097	3.528	9.852
	48	5240	1.170	1.148	1.143	3.461	9.665
	52	5260	1.133	1.200	1.107	3.440	9.111
	64	5320	1.154	1.178	1.125	3.457	9.156
Maximum Limit (mW/MHz):						10	-
Rated Power (mW/MHz):						3.3	-
Tolerance of Antenna Power (mW/MHz):						0.66 ~ 3.96	-
Maximum EIRP Limit (mW/MHz):						-	10

Notes:

1. Antenna gain of 5150 to 5250 MHz is 4.46 dBi.
2. Antenna gain of 5250 to 5350 MHz is 4.23 dBi.
3. The radiated RF output power density is a “calculated” value derived from the conducted value.
4. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ax (HE20) W56

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	100	5500	3.112	3.267	3.358	9.737	26.942
	120	5600	3.274	3.343	3.192	9.809	27.141
	144	5720	3.320	3.222	3.084	9.626	26.635
Maximum Limit (mW/MHz):						10	-
Rated Power (mW/MHz):						10	-
Tolerance of Antenna Power (mW/MHz):						5 ~ 15	-
Maximum EIRP Limit (mW/MHz):						-	50

Notes:

1. Antenna gain is 4.42 dBi.
2. The radiated RF output power density is a “calculated” value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ax (HE40) W52&W53

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	38	5190	0.588	0.557	0.531	1.676	4.680
	46	5230	0.605	0.576	0.550	1.731	4.834
	54	5270	0.594	0.610	0.582	1.786	4.730
	62	5310	0.643	0.610	0.592	1.845	4.886
Maximum Limit (mW/MHz):						5	-
Rated Power (mW/MHz):						1.65	-
Tolerance of Antenna Power (mW/MHz):						0.33 ~ 1.98	-
Maximum EIRP Limit (mW/MHz):						-	5

Notes:

1. Antenna gain of 5150 to 5250 MHz is 4.46 dBi.
2. Antenna gain of 5250 to 5350 MHz is 4.23 dBi.
3. The radiated RF output power density is a “calculated” value derived from the conducted value.
4. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ax (HE40) W56

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	102	5510	1.538	1.618	1.462	4.618	12.778
	118	5590	1.622	1.574	1.500	4.696	12.994
	142	5710	1.607	1.563	1.531	4.701	13.007
Maximum Limit (mW/MHz):						5	-
Rated Power (mW/MHz):						5	-
Tolerance of Antenna Power (mW/MHz):						2.5 ~ 7.5	-
Maximum EIRP Limit (mW/MHz):						-	25

Notes:

1. Antenna gain is 4.42 dBi.
2. The radiated RF output power density is a “calculated” value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ax (HE80) W52&W53

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	42	5210	0.298	0.278	0.292	0.868	2.424
	58	5290	0.308	0.297	0.290	0.895	2.370
Maximum Limit (mW/MHz):						2.5	-
Rated Power (mW/MHz):						0.825	-
Tolerance of Antenna Power (mW/MHz):						0.165 ~ 0.99	-
Maximum EIRP Limit (mW/MHz):						-	2.5

Notes:

1. Antenna gain of 5150 to 5250 MHz is 4.46 dBi.
2. Antenna gain of 5250 to 5350 MHz is 4.23 dBi.
3. The radiated RF output power density is a “calculated” value derived from the conducted value.
4. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ax (HE80) W56

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	106	5530	0.836	0.787	0.798	2.421	6.699
	122	5610	0.800	0.762	0.821	2.383	6.594
	138	5690	0.800	0.743	0.806	2.349	6.500
Maximum Limit (mW/MHz):						2.5	-
Rated Power (mW/MHz):						2.5	-
Tolerance of Antenna Power (mW/MHz):						1.25 ~ 3.75	-
Maximum EIRP Limit (mW/MHz):						-	12.5

Notes:

1. Antenna gain is 4.42 dBi.
2. The radiated RF output power density is a “calculated” value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

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802.11ax (HE160) W52&W53

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	50	5250	0.143	0.143	0.146	0.432	1.206
Maximum Limit (mW/MHz):						1.25	-
Rated Power (mW/MHz):						0.4125	-
Tolerance of Antenna Power (mW/MHz):						0.0825 ~ 0.495	-
Maximum EIRP Limit (mW/MHz):						-	1.25

Notes:

1. Antenna gain is 4.46 dBi.
2. The radiated RF output power density is a “calculated” value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

802.11ax (HE160) W56

Voltage (Vac)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)				Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Chain 2	Total Power Density	
100	114	5570	0.393	0.416	0.385	1.194	3.304
Maximum Limit (mW/MHz):						1.25	-
Rated Power (mW/MHz):						1.25	-
Tolerance of Antenna Power (mW/MHz):						0.625 ~ 1.875	-
Maximum EIRP Limit (mW/MHz):						-	6.25

Notes:

1. Antenna gain is 4.42 dBi.
2. The radiated RF output power density is a “calculated” value derived from the conducted value.
3. Formula: Radiated RF output power density = Conducted RF output power density + Antenna gain

7.6 Adjacent Channel Emitted Power

Environmental Conditions:	25°C, 65% RH	Tested By:	Chris Lin

802.11a Chain 0 W52&53

Test Condition \ Test Channel		CH 36 (5180 MHz)	CH 48 (5240 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.29	9.26	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	32.60	46.37	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	33.35	45.27	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.76	52.75	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	52.57	52.78	40	PASS
Test Condition \ Test Channel		CH 52 (5260 MHz)	CH 64 (5320 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.91	9.54	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	42.28	33.28	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	42.21	31.86	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	53.31	53.11	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	53.49	52.76	40	PASS

802.11a Chain 1 W52&53

Test Condition \ Test Channel		CH 36 (5180 MHz)	CH 48 (5240 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.49	9.68	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	32.53	45.83	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	33.31	44.71	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	53.15	53.46	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	53.17	53.19	40	PASS
Test Condition \ Test Channel		CH 52 (5260 MHz)	CH 64 (5320 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.39	9.37	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	42.34	33.43	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	41.93	31.73	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	53.15	53.44	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	53.00	52.76	40	PASS

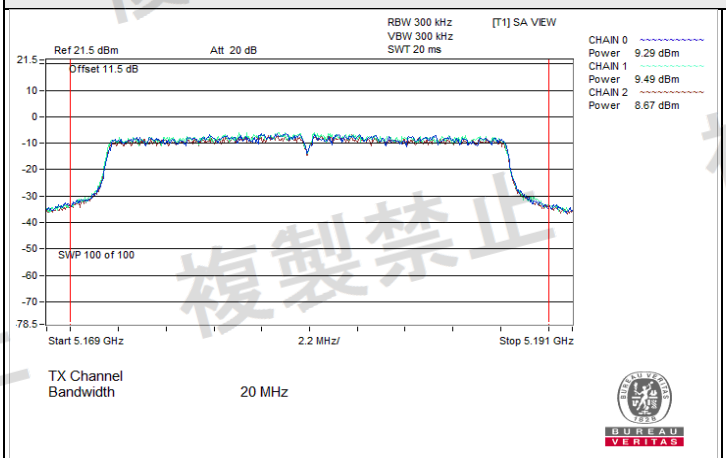
802.11a Chain 2 W52&53

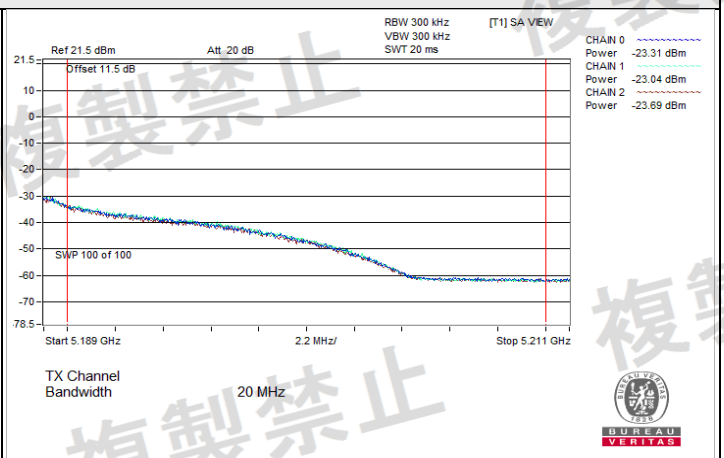
Test Condition \ Test Channel		CH 36 (5180 MHz)	CH 48 (5240 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	8.67	8.29	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	32.36	46.32	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	33.27	44.95	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.44	52.62	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	52.35	52.34	40	PASS
Test Condition \ Test Channel		**CH 52 (5260 MHz)**	**CH 64 (5320 MHz)**	**Min. Limit (dBc)**	**Result**
V_{normal}	Mean Power of Carrier (dBm)	9.19	9.01	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	42.65	33.50	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	42.15	31.84	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	53.23	52.60	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	53.15	52.40	40	PASS

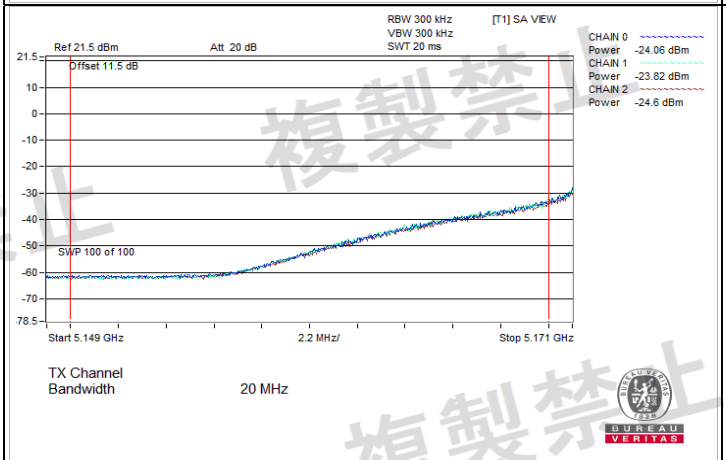
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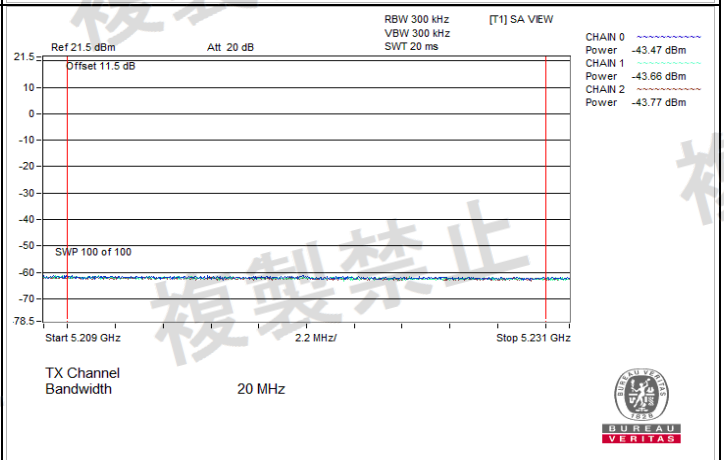
802.11a Graph W52&53

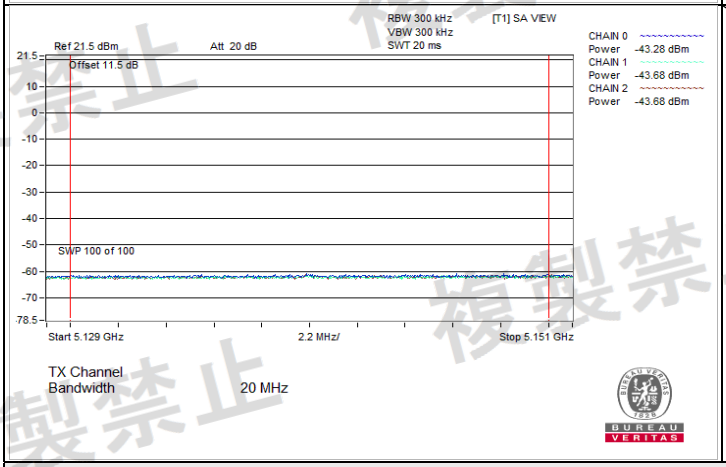
Vnormal





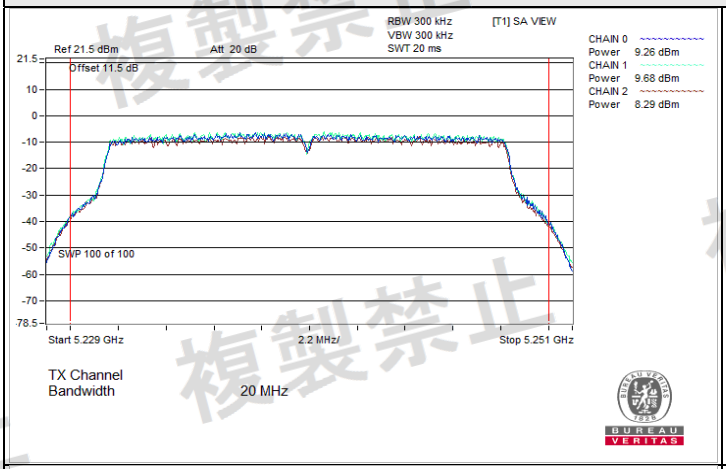


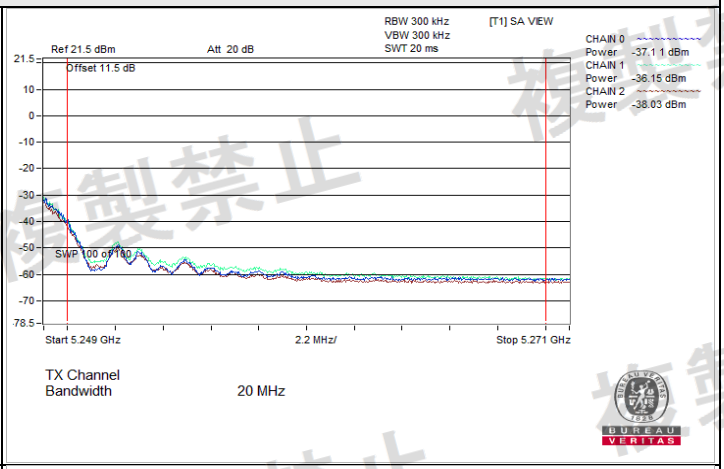


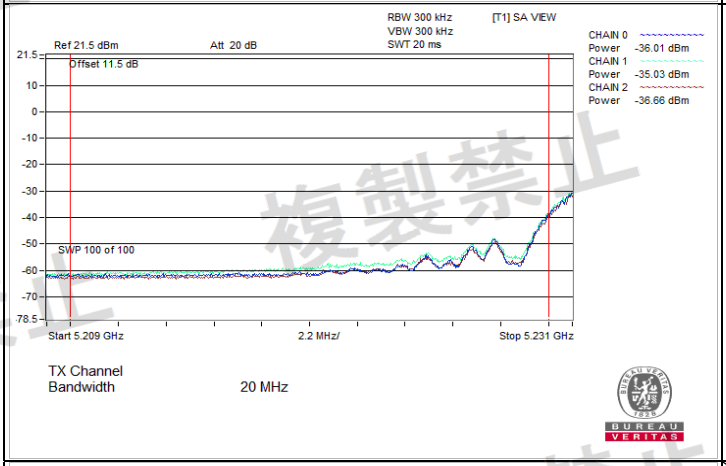


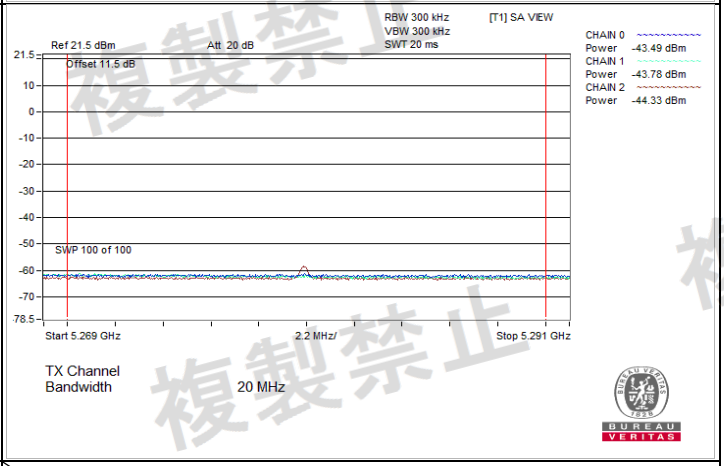
CH 36 (5180 MHz)

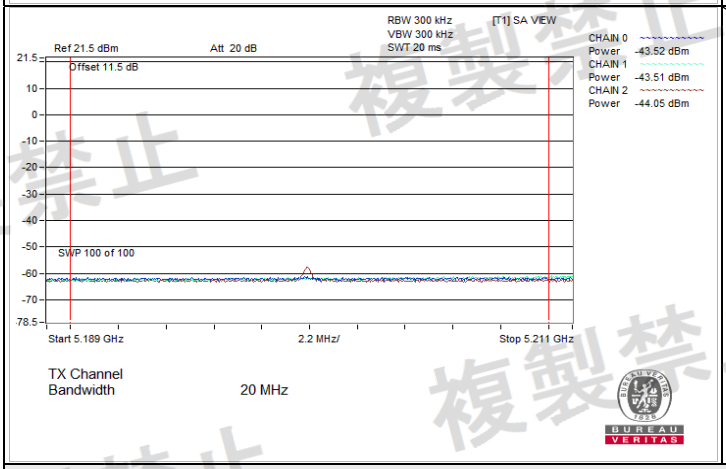
Vnormal





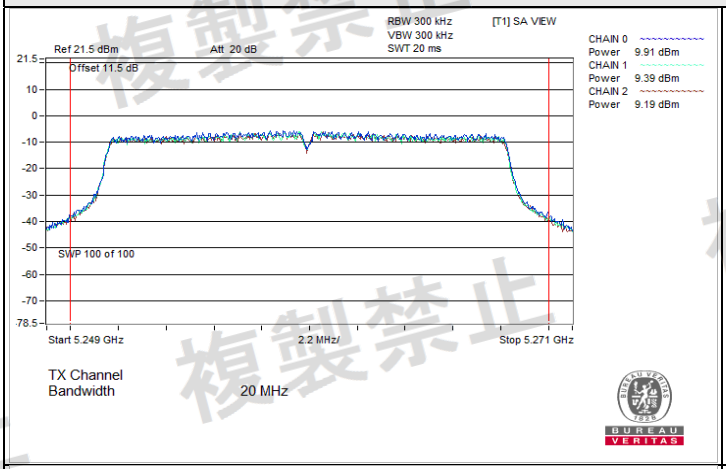


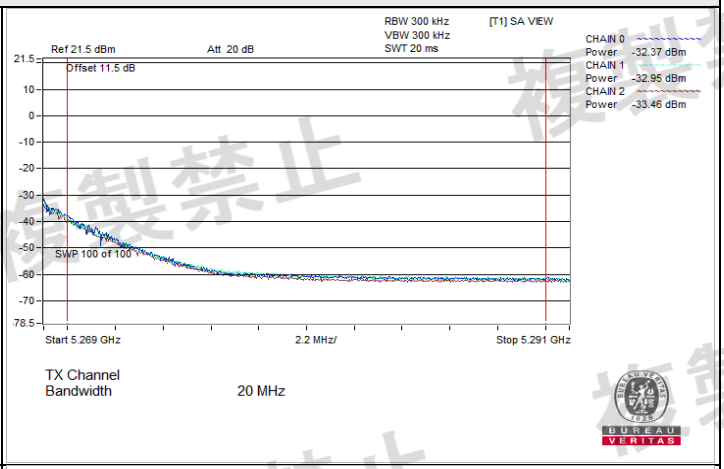


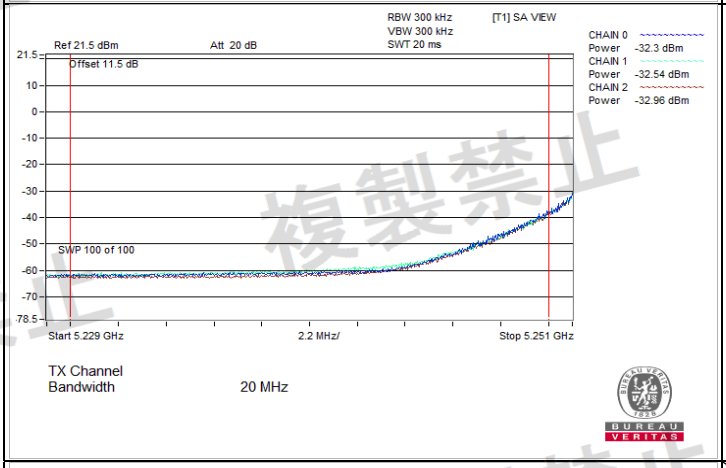


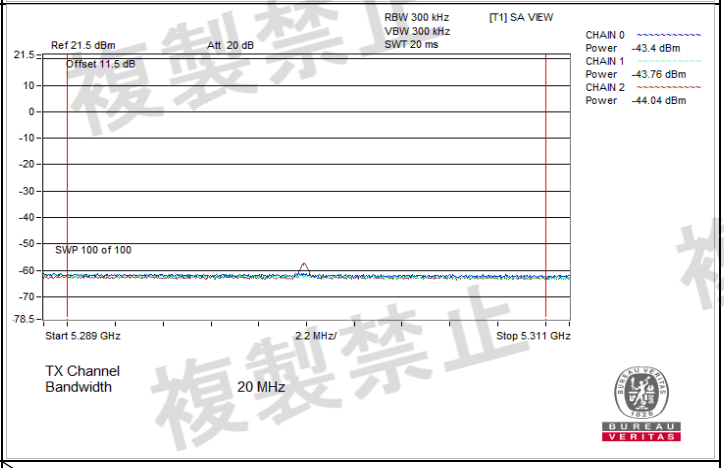
CH 48 (5240 MHz)

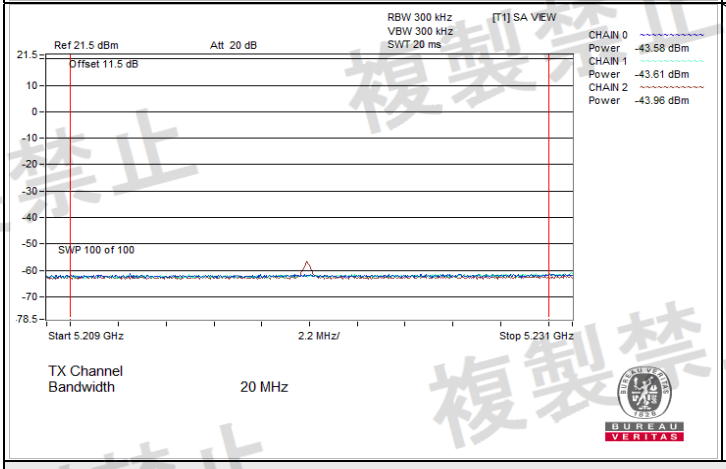
Vnormal





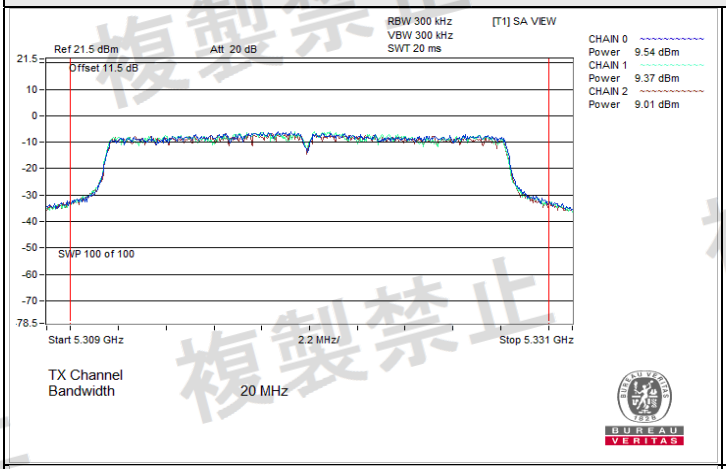


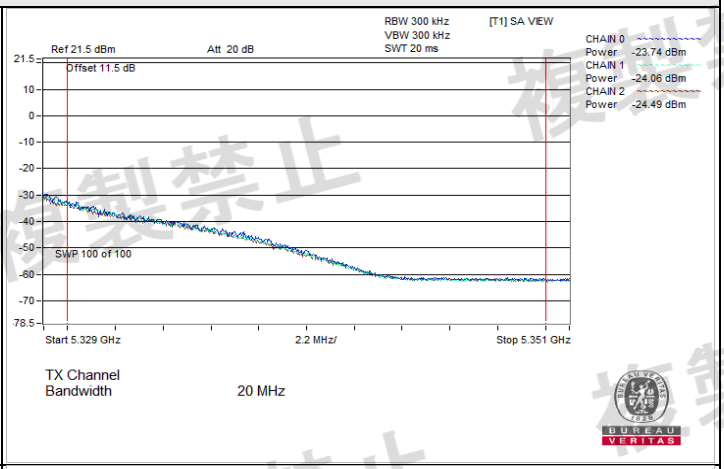


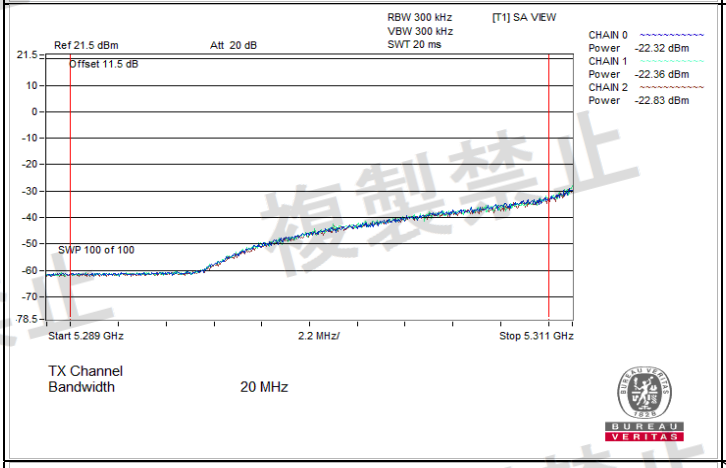


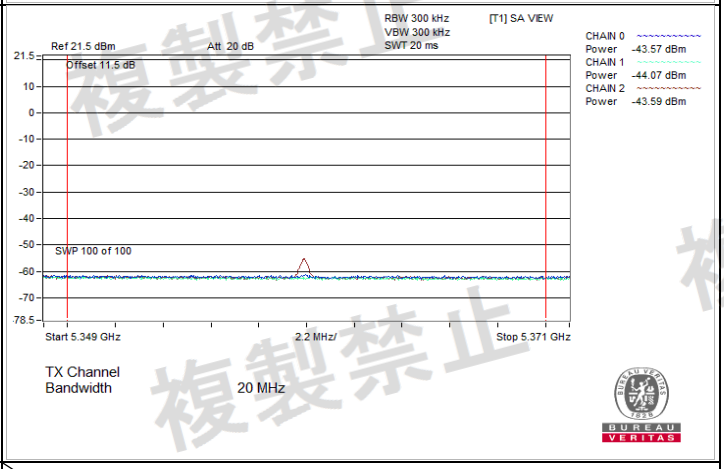
CH 52 (5260 MHz)

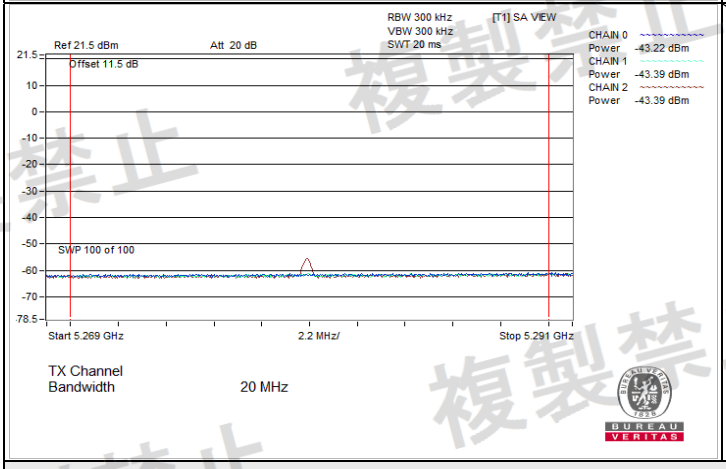
Vnormal











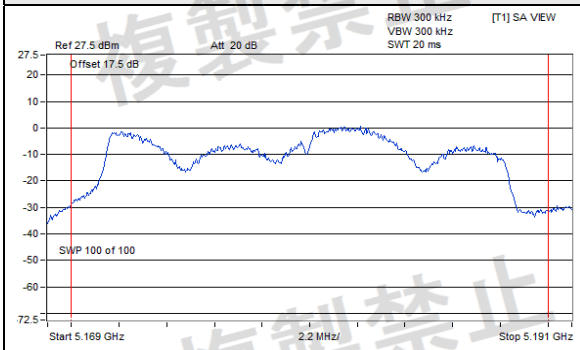
CH 64 (5320 MHz)

802.11a Use combiner W52&53

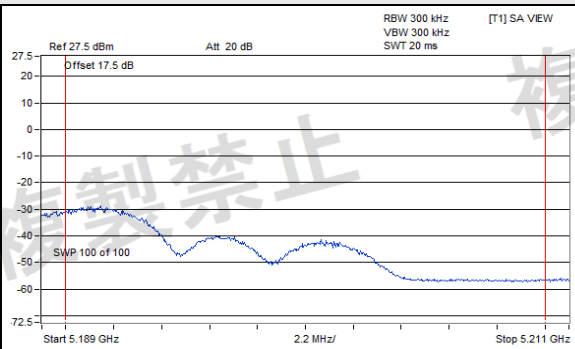
Test Condition \ Test Channel		CH 36 (5180 MHz)	CH 48 (5240 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	13.24	13.43	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	32.50	45.81	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	35.97	46.07	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	51.68	52.11	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	51.59	51.94	40	PASS
Test Condition \ Test Channel		**CH 52 (5260 MHz)**	**CH 64 (5320 MHz)**	**Min. Limit (dBc)**	**Result**
V_{normal}	Mean Power of Carrier (dBm)	13.34	13.77	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	44.93	33.71	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	40.63	34.35	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	51.96	52.45	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	51.88	52.07	40	PASS

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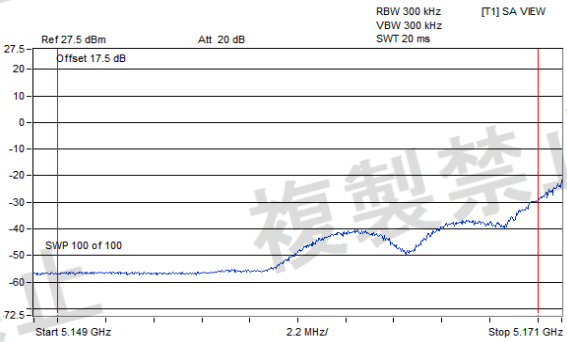
Vnormal



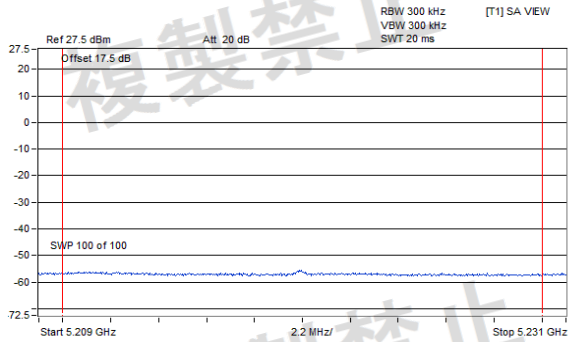
TX Channel Bandwidth 20 MHz Power 13.24 dBm



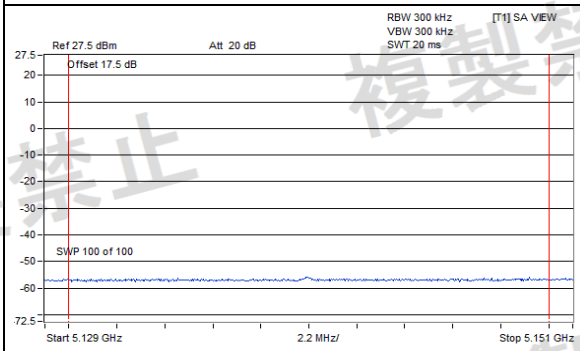
TX Channel Bandwidth 20 MHz Power -19.26 dBm



TX Channel Bandwidth 20 MHz Power -22.73 dBm



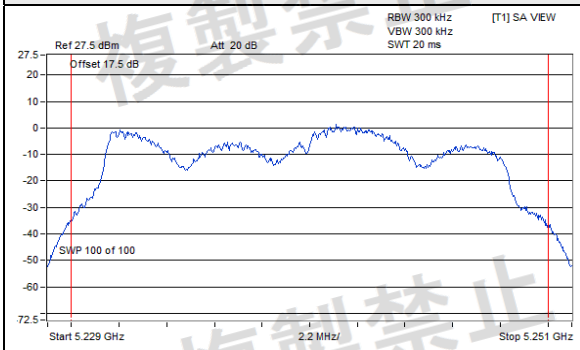
TX Channel Bandwidth 20 MHz Power -38.44 dBm



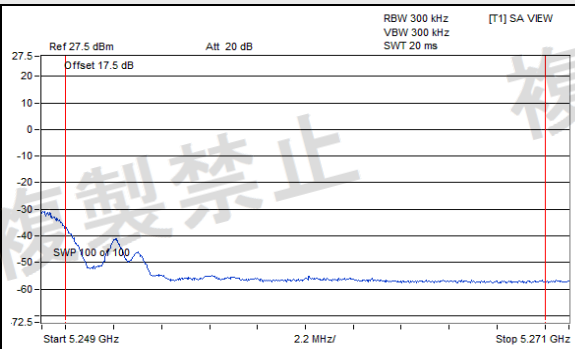
TX Channel Bandwidth 20 MHz Power -38.35 dBm

CH 36 (5180 MHz)

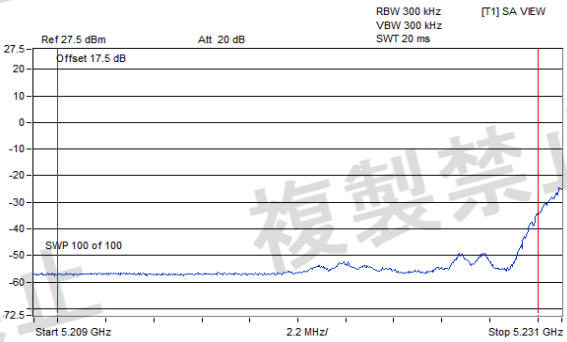
Vnormal



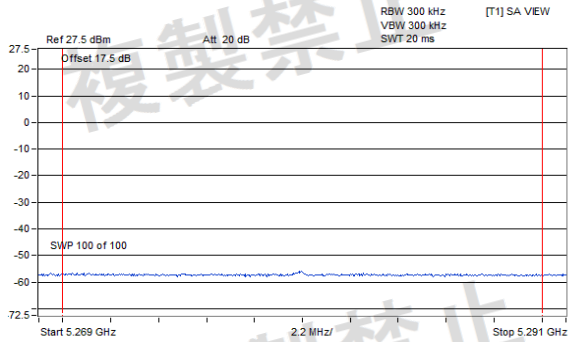
TX Channel Bandwidth 20 MHz Power 13.43 dBm



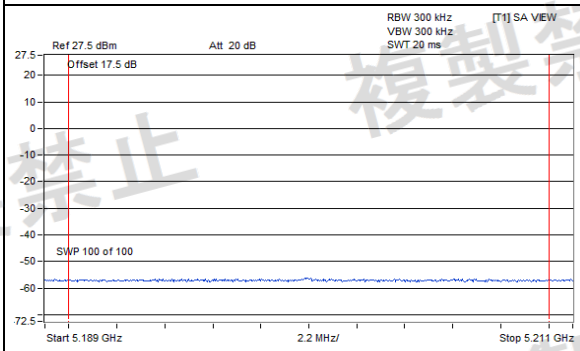
TX Channel Bandwidth 20 MHz Power -32.38 dBm



TX Channel Bandwidth 20 MHz Power -32.64 dBm



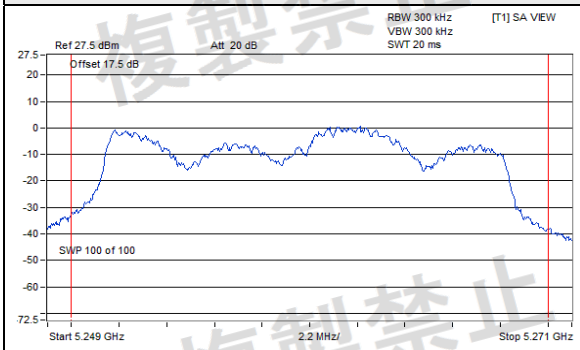
TX Channel Bandwidth 20 MHz Power -38.68 dBm



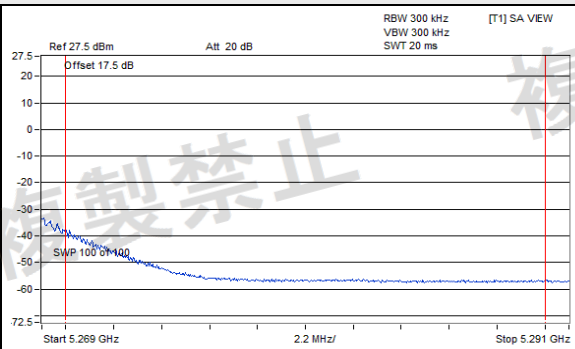
TX Channel Bandwidth 20 MHz Power -38.51 dBm

CH 48 (5240 MHz)

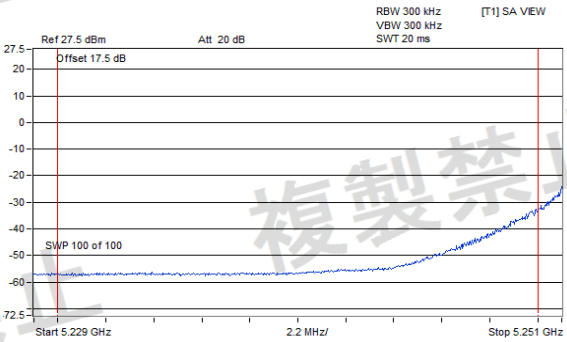
Vnormal



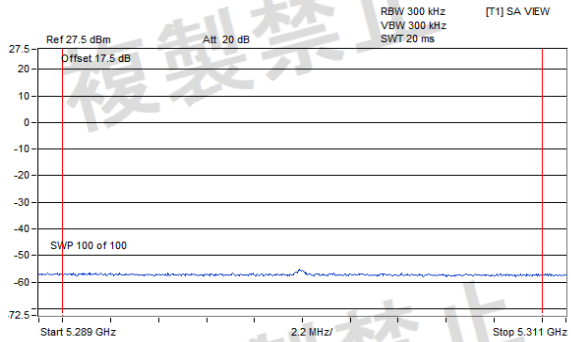
TX Channel Bandwidth 20 MHz Power 13.34 dBm



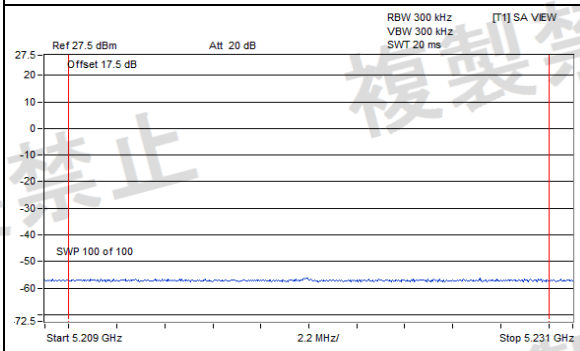
TX Channel Bandwidth 20 MHz Power -31.59 dBm



TX Channel Bandwidth 20 MHz Power -27.29 dBm



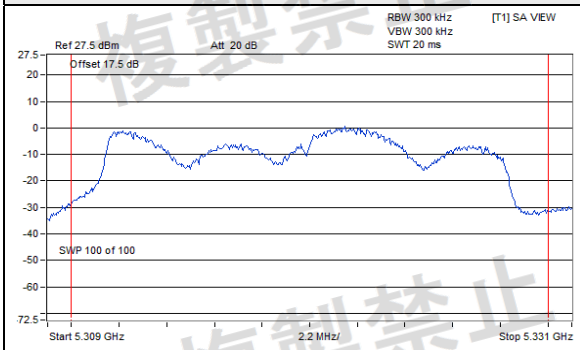
TX Channel Bandwidth 20 MHz Power -38.62 dBm



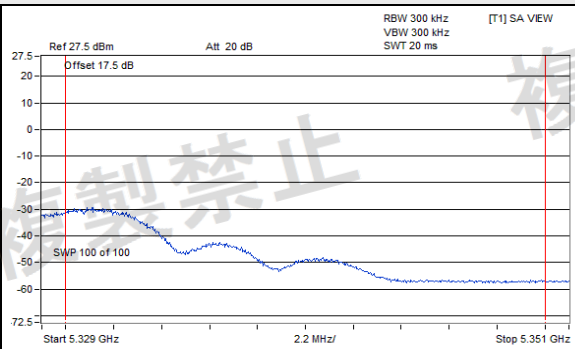
TX Channel Bandwidth 20 MHz Power -38.54 dBm

CH 52 (5260 MHz)

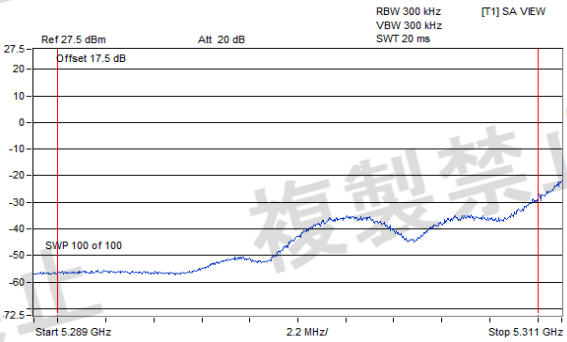
Vnormal



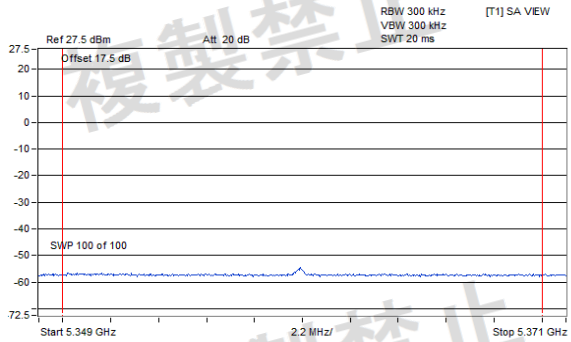
TX Channel Bandwidth 20 MHz Power 13.77 dBm



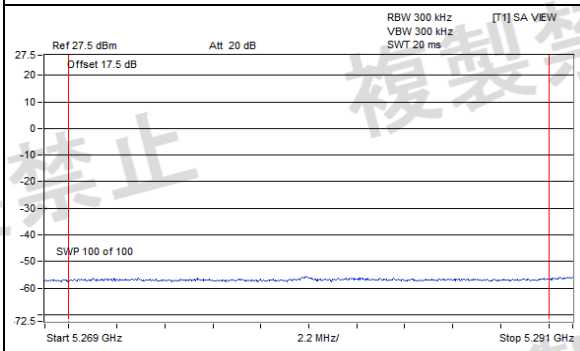
TX Channel Bandwidth 20 MHz Power -19.94 dBm



TX Channel Bandwidth 20 MHz Power -20.58 dBm



TX Channel Bandwidth 20 MHz Power -20.68 dBm



TX Channel Bandwidth 20 MHz Power -38.3 dBm

CH 64 (5320 MHz)

802.11a Sum of each Chain W52&53

TEST CHANNEL		CH 36 (5180 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	MIN. LIMIT (dBc)	RESULT
V_{normal}	Mean Power of Carrier (dBm)	13.94	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	37.27	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	38.08	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	57.56	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	57.48	40	PASS
TEST CHANNEL		CH 48 (5240 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	13.89	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	50.95	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	49.75	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	57.73	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	57.56	40	PASS
TEST CHANNEL		CH 52 (5260 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	14.28	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	47.20	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	46.87	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	58.00	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	57.99	40	PASS
TEST CHANNEL		CH 64 (5320 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	14.08	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	38.18	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	36.58	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	57.83	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	57.41	40	PASS

802.11a Chain 0 W56

Test Condition \ Test Channel		CH 100 (5500 MHz)	CH 120 (5600 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.36	15.57	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	32.59	40.98	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	33.16	40.45	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	55.31	53.26	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	55.73	53.76	40	PASS

Test Condition \ Test Channel		CH 144 (5720 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.66	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	40.45	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	40.12	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.79	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	51.74	40	PASS

802.11a Chain 1 W56

Test Condition \ Test Channel		CH 100 (5500 MHz)	CH 120 (5600 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.86	15.84	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	32.17	39.13	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	33.34	39.03	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	56.03	51.56	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	57.27	51.76	40	PASS

Test Condition \ Test Channel		CH 144 (5720 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.42	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	40.48	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	39.31	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	51.72	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	51.56	40	PASS

802.11a Chain 2 W56

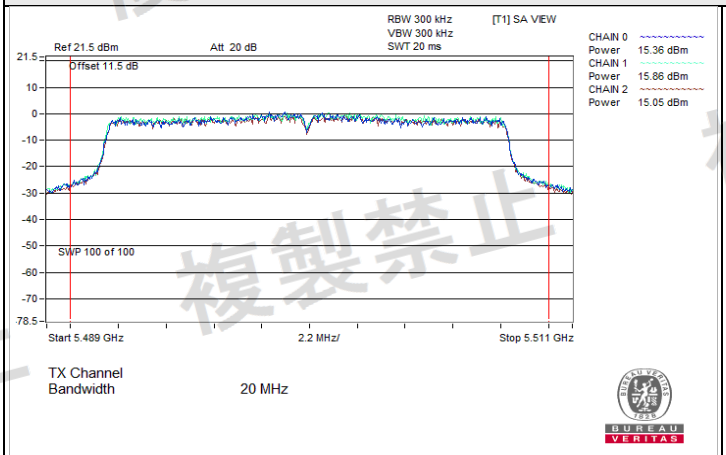
Test Condition \ Test Channel		CH 100 (5500 MHz)	CH 120 (5600 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.05	15.56	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	32.63	40.01	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	33.55	39.74	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	55.45	52.74	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	56.22	53.23	40	PASS

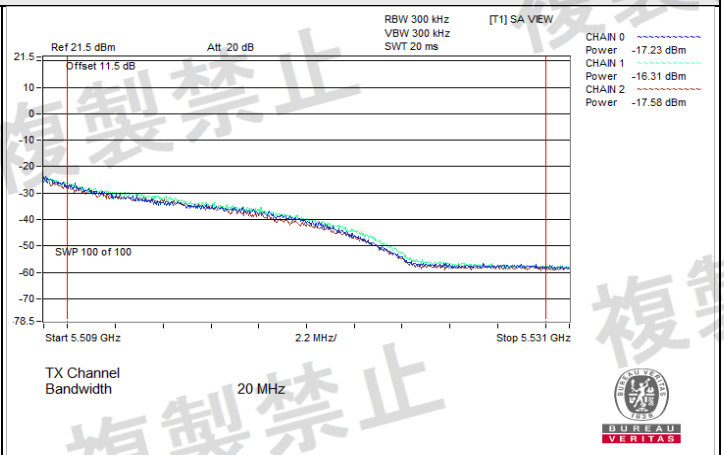
Test Condition \ Test Channel		CH 144 (5720 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.07	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	40.35	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	39.78	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.98	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	51.98	40	PASS

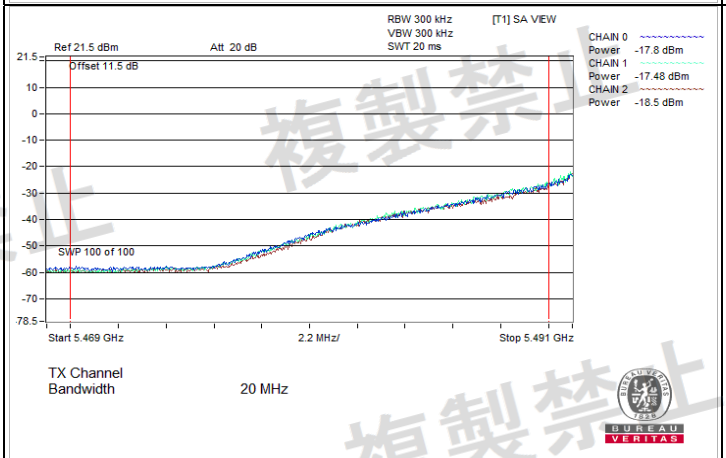
複製禁止

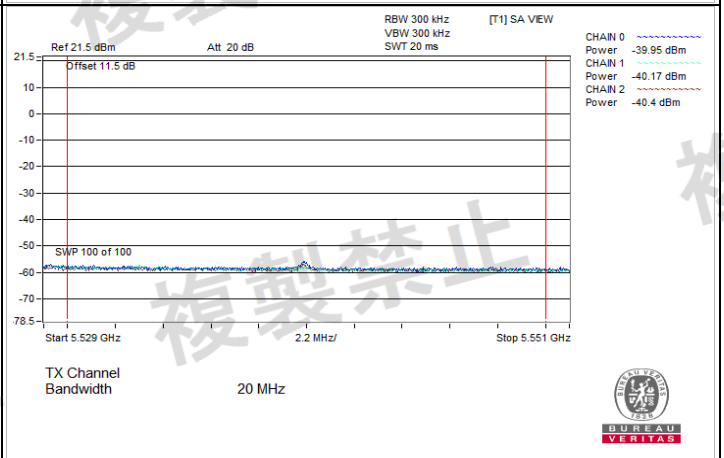
802.11a Graph W56

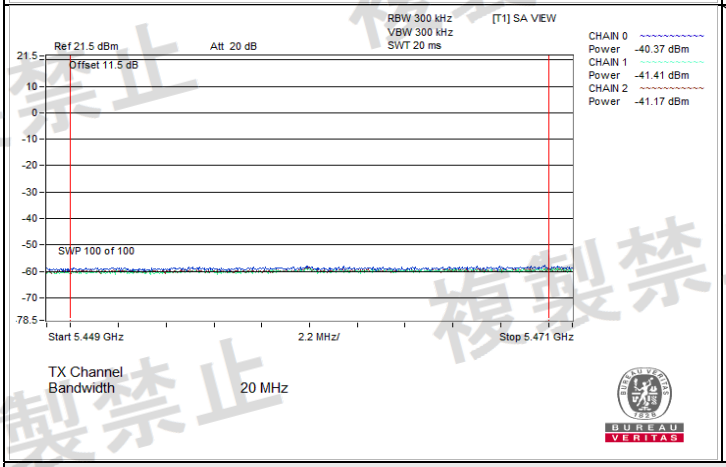
Vnormal





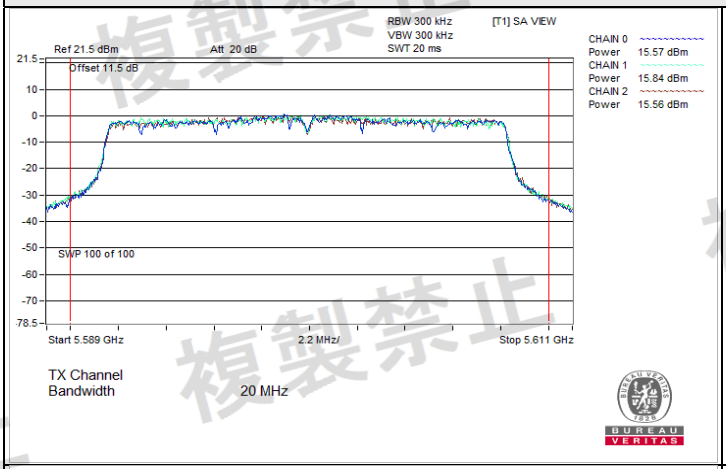


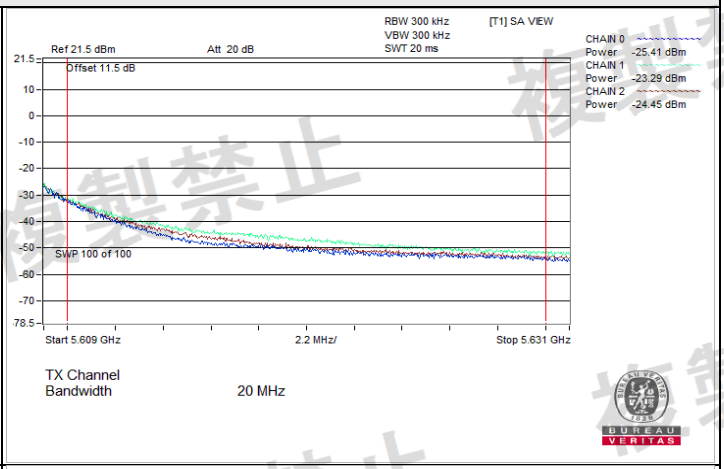


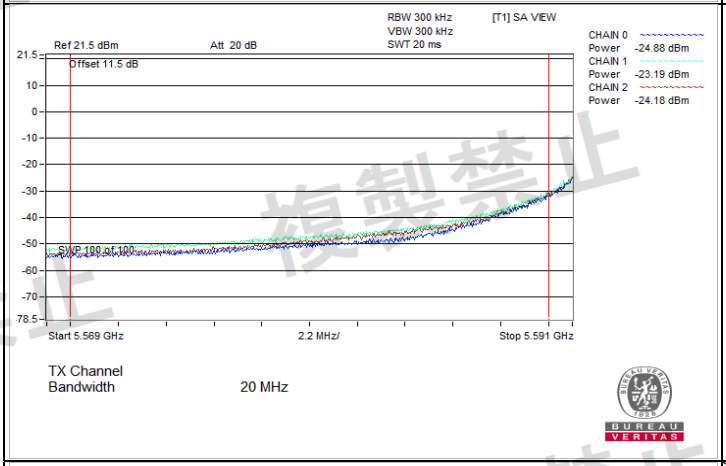


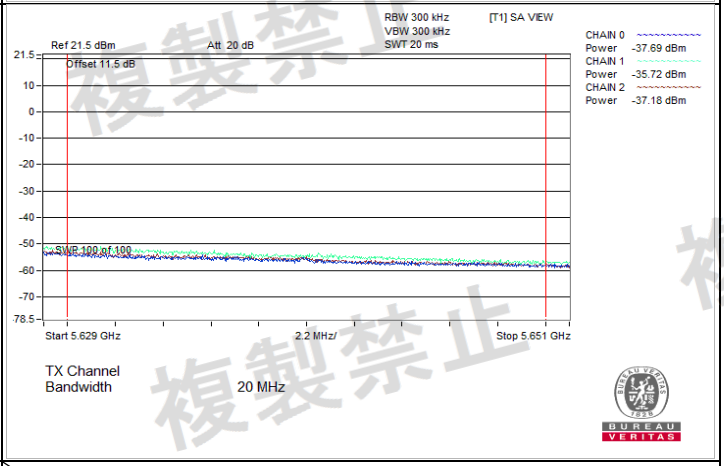
CH 100 (5500 MHz)

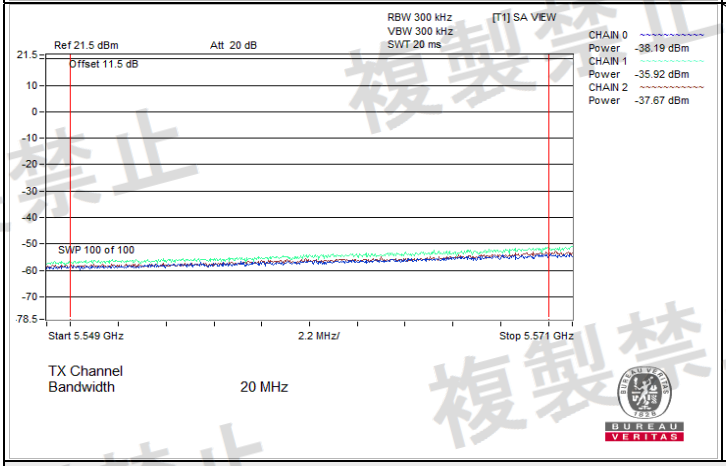
Vnormal





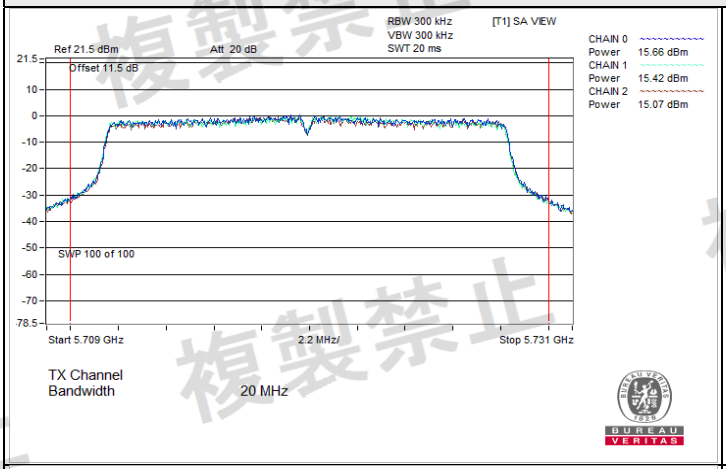


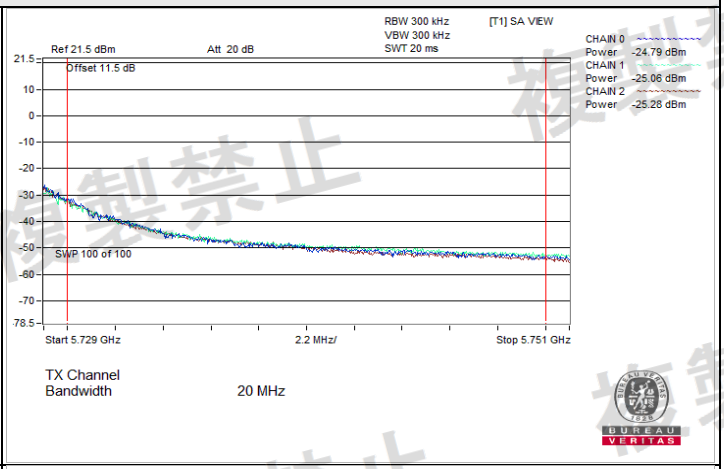


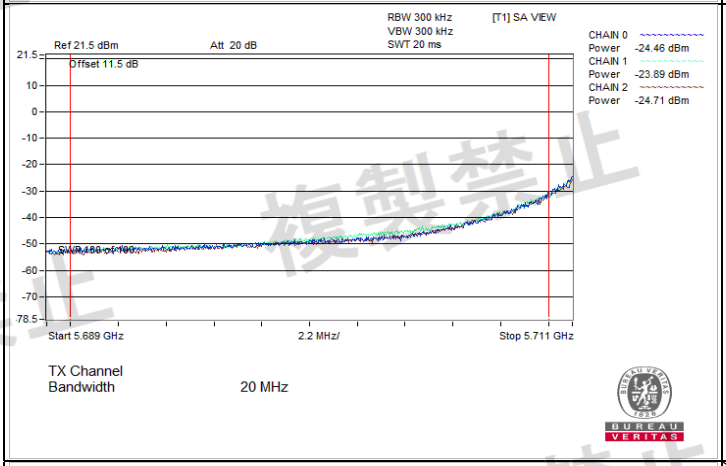


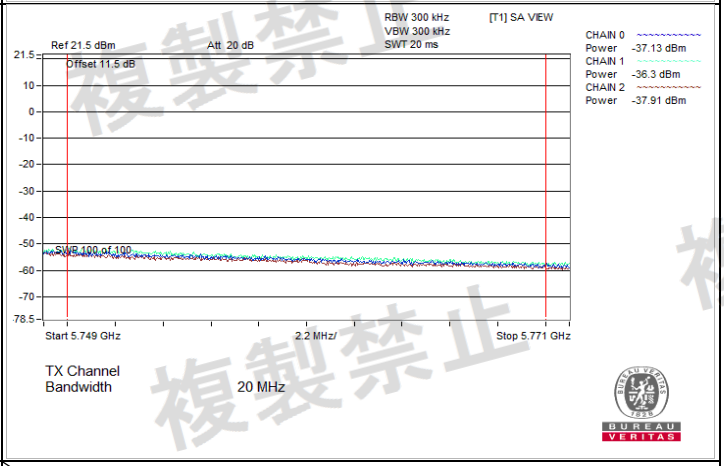
CH 120 (5600 MHz)

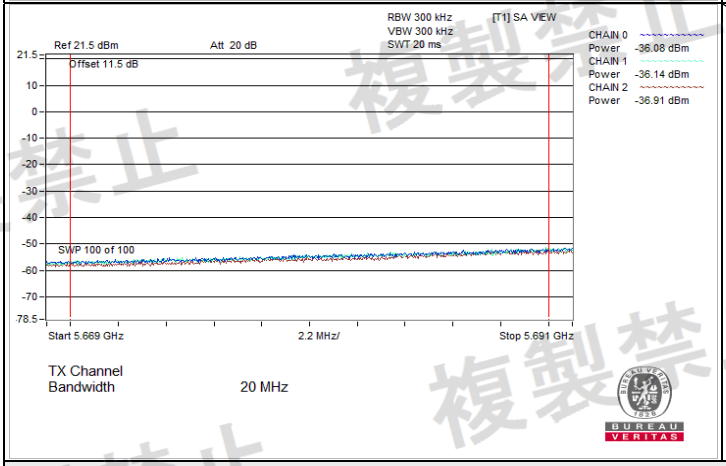
Vnormal











CH 144 (5720 MHz)

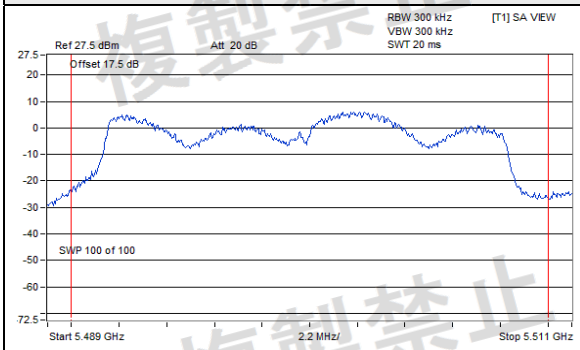
802.11a Use combiner W56

Test Condition \ Test Channel		CH 100 (5500 MHz)	CH 120 (5600 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	19.45	19.54	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	32.75	42.84	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	35.68	39.99	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	55.88	54.28	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	56.65	54.64	40	PASS

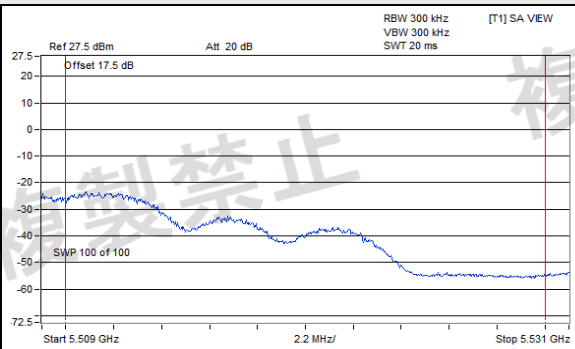
Test Condition \ Test Channel		CH 144 (5720 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	19.38	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	43.18	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	39.92	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	54.24	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	54.28	40	PASS

複製禁止

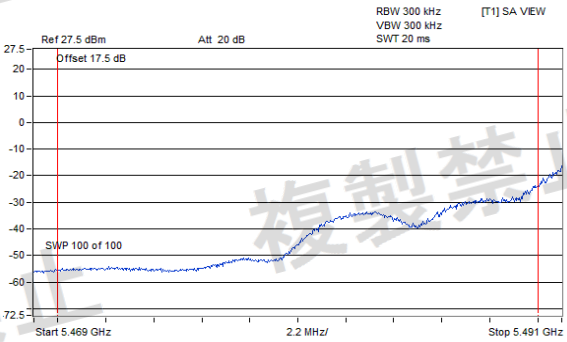
Vnormal



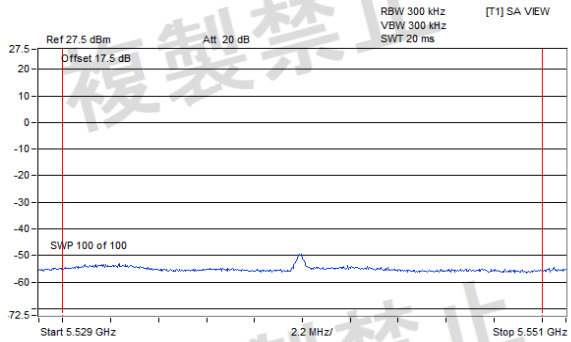
TX Channel Bandwidth 20 MHz Power 19.45 dBm



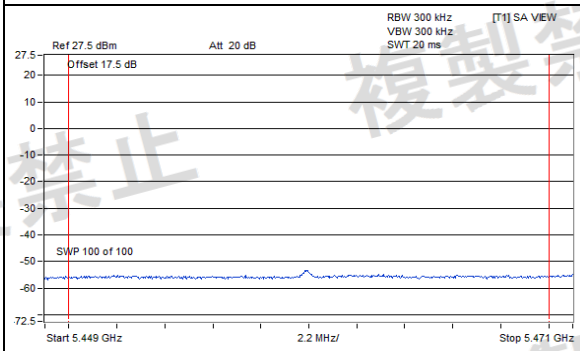
TX Channel Bandwidth 20 MHz Power -13.3 dBm



TX Channel Bandwidth 20 MHz Power -16.23 dBm



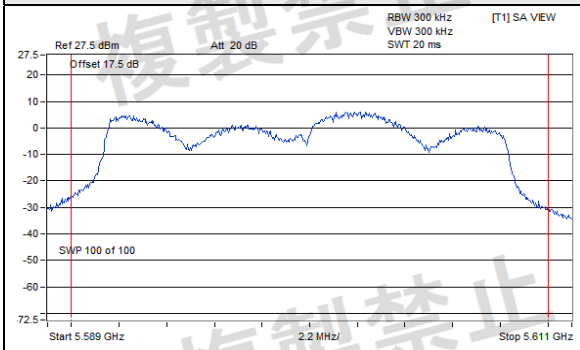
TX Channel Bandwidth 20 MHz Power -36.43 dBm



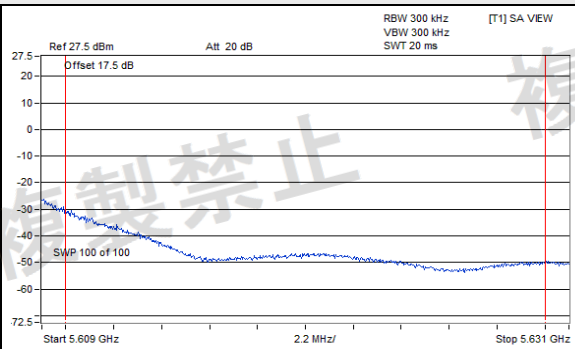
TX Channel Bandwidth 20 MHz Power -37.2 dBm

CH 100 (5500 MHz)

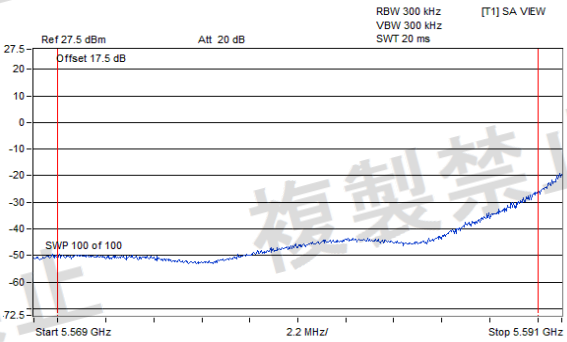
Vnormal



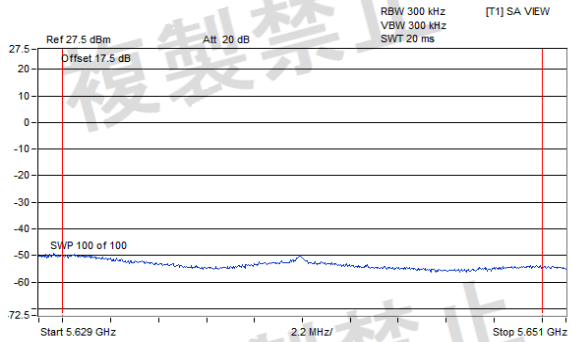
TX Channel Bandwidth 20 MHz Power 19.54 dBm



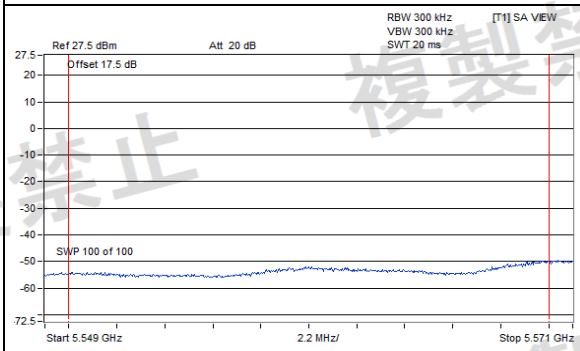
TX Channel Bandwidth 20 MHz Power -23.3 dBm



TX Channel Bandwidth 20 MHz Power -20.45 dBm



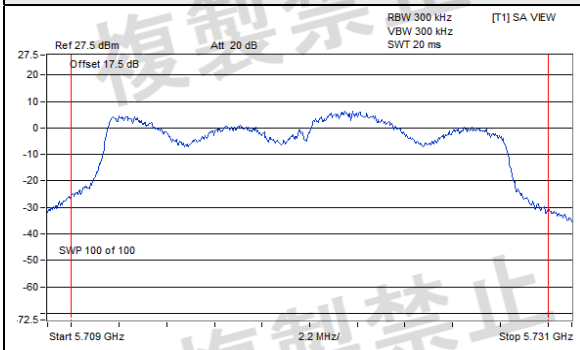
TX Channel Bandwidth 20 MHz Power -34.74 dBm



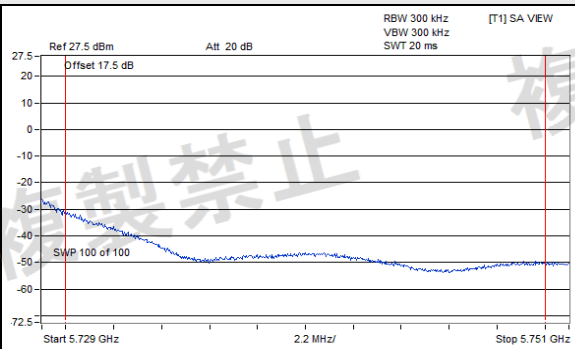
TX Channel Bandwidth 20 MHz Power -35.1 dBm

CH 120 (5600 MHz)

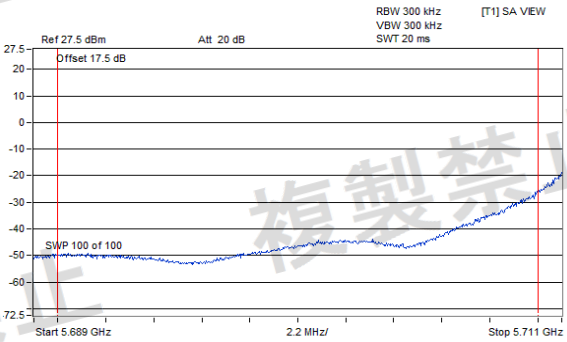
Vnormal



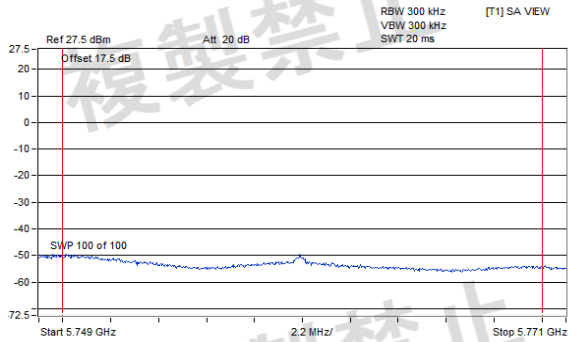
TX Channel Bandwidth 20 MHz Power 19.38 dBm



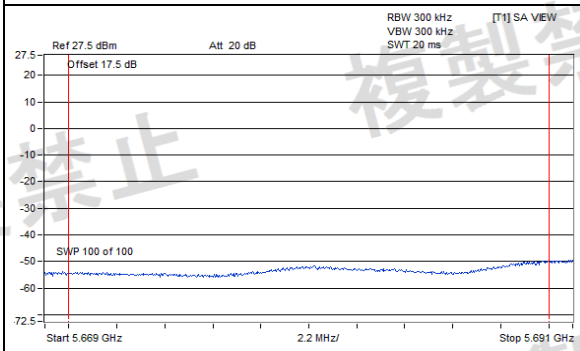
TX Channel Bandwidth 20 MHz Power -23.8 dBm



TX Channel Bandwidth 20 MHz Power -20.54 dBm



TX Channel Bandwidth 20 MHz Power -34.86 dBm



TX Channel Bandwidth 20 MHz Power -34.9 dBm

CH 144 (5720 MHz)

802.11a Sum of each Chain W56

TEST CHANNEL		CH 100 (5500 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	MIN. LIMIT (dBc)	RESULT
V_{normal}	Mean Power of Carrier (dBm)	20.21	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	37.24	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	38.12	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	60.38	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	61.23	40	PASS
TEST CHANNEL		**CH 120 (5600 MHz)**		
V_{normal}	Mean Power of Carrier (dBm)	20.43	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	44.88	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	44.55	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	57.35	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	57.77	40	PASS
TEST CHANNEL		**CH 144 (5720 MHz)**		
V_{normal}	Mean Power of Carrier (dBm)	20.16	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	45.20	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	44.52	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	57.30	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	56.53	40	PASS

802.11ac (VHT20) Chain 0 W52&53

Test Condition \ Test Channel		CH 36 (5180 MHz)	CH 48 (5240 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.69	9.25	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	31.00	44.05	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	31.91	42.91	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	53.03	52.88	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	52.95	52.83	40	PASS
Test Condition \ Test Channel		CH 52 (5260 MHz)	CH 64 (5320 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.69	9.01	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	40.51	31.84	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	39.80	30.54	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	53.13	52.74	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	53.28	52.41	40	PASS

802.11ac (VHT20) Chain 1 W52&53

Test Condition \ Test Channel		CH 36 (5180 MHz)	CH 48 (5240 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.42	9.50	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	31.03	43.60	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	31.93	42.59	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	53.12	53.35	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	53.20	53.06	40	PASS
Test Condition \ Test Channel		CH 52 (5260 MHz)	CH 64 (5320 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.22	9.33	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	40.34	32.31	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	39.58	30.57	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.91	53.48	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	52.71	52.77	40	PASS

複製禁止

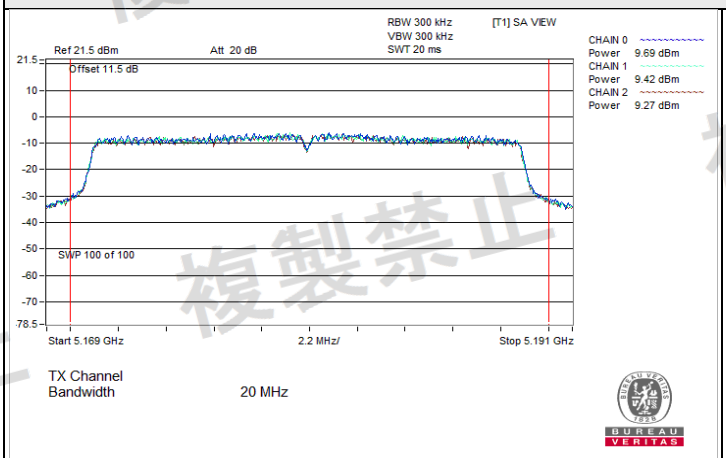
802.11ac (VHT20) Chain 2 W52&53

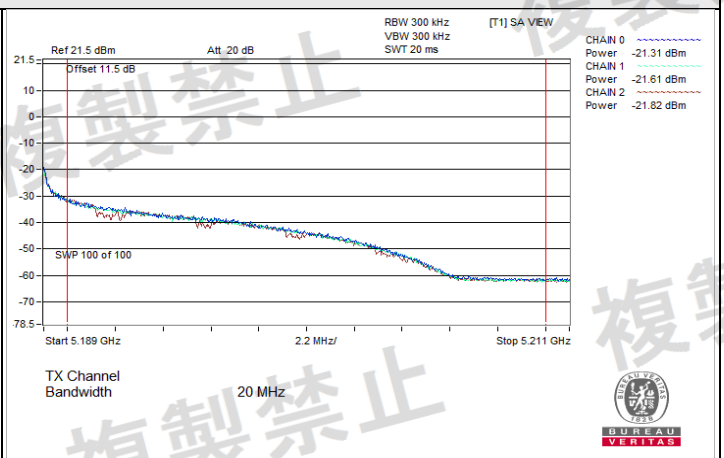
Test Condition \ Test Channel		CH 36 (5180 MHz)	CH 48 (5240 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.27	9.29	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	31.09	44.45	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	31.98	43.00	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.90	53.21	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	52.54	52.84	40	PASS
Test Condition \ Test Channel		CH 52 (5260 MHz)	CH 64 (5320 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.00	9.12	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	40.56	32.16	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	40.07	30.22	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.96	52.85	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	52.90	52.42	40	PASS

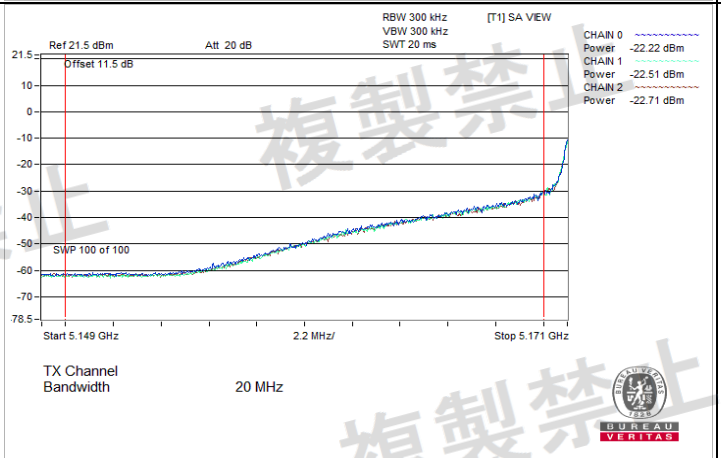
複製禁止

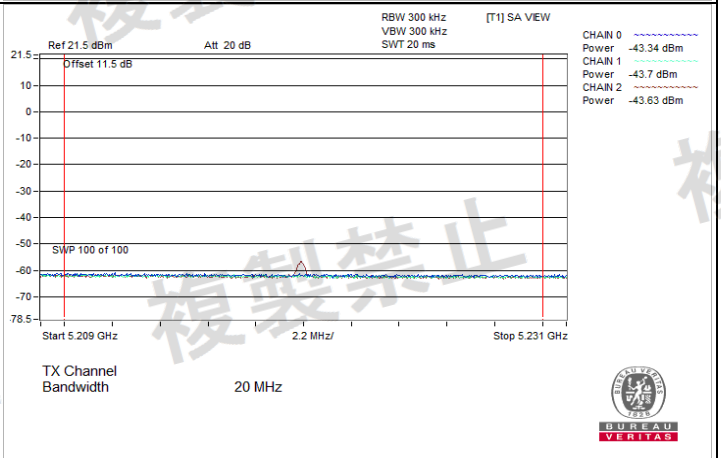
802.11ac (VHT20) Graph W52&53

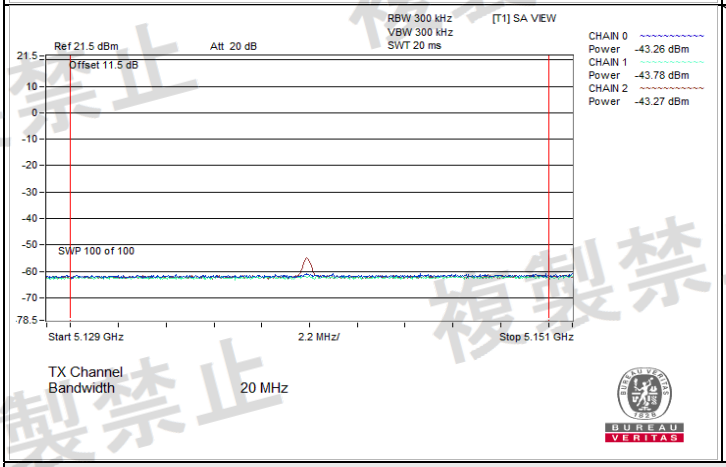
Vnormal





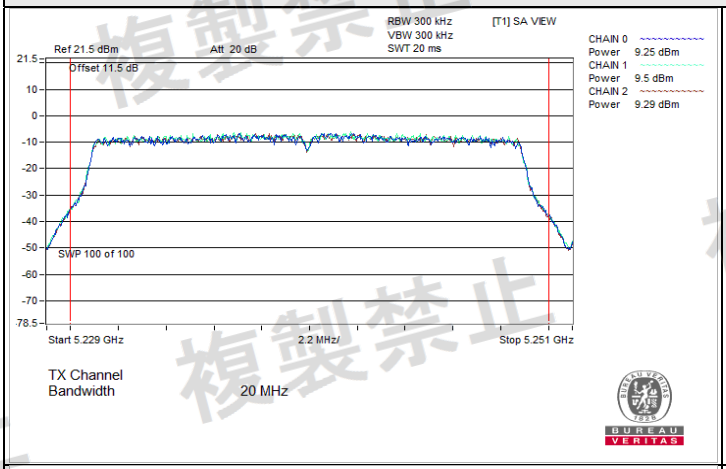


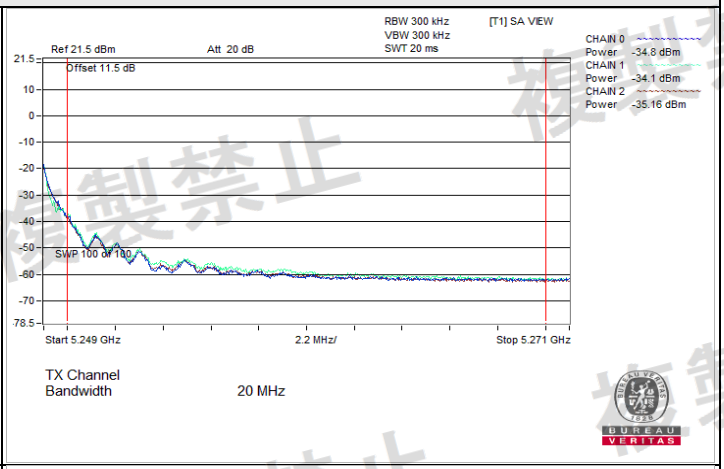


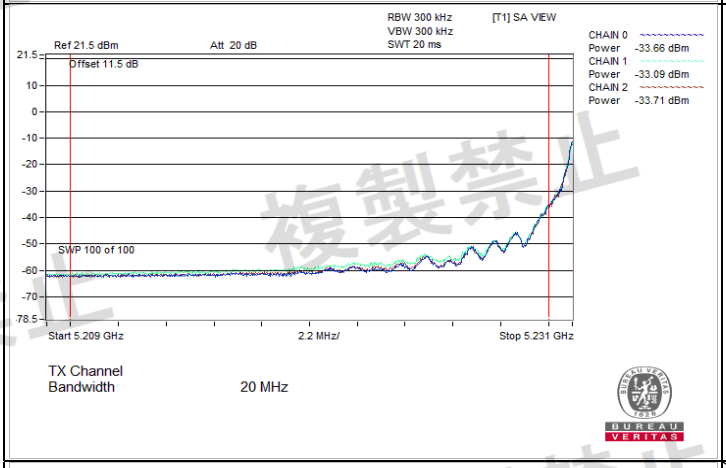


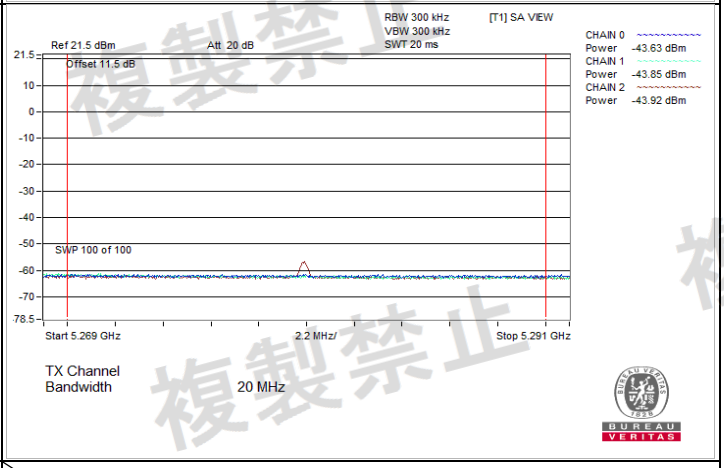
CH 36 (5180 MHz)

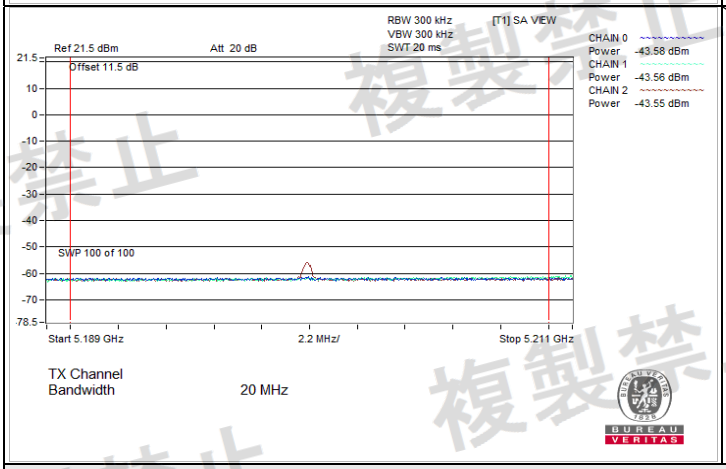
Vnormal





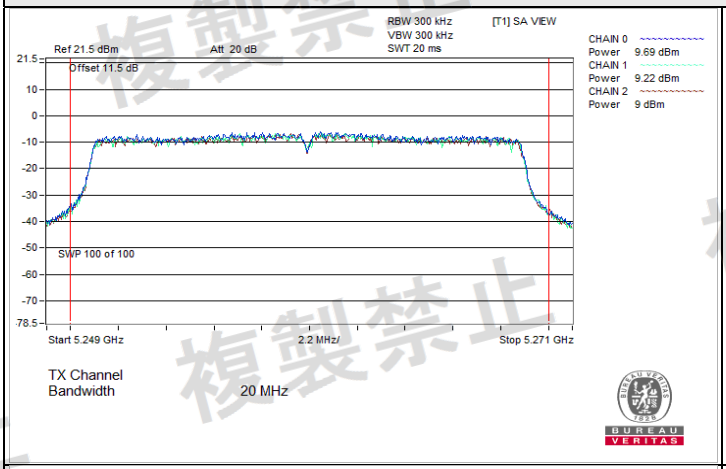


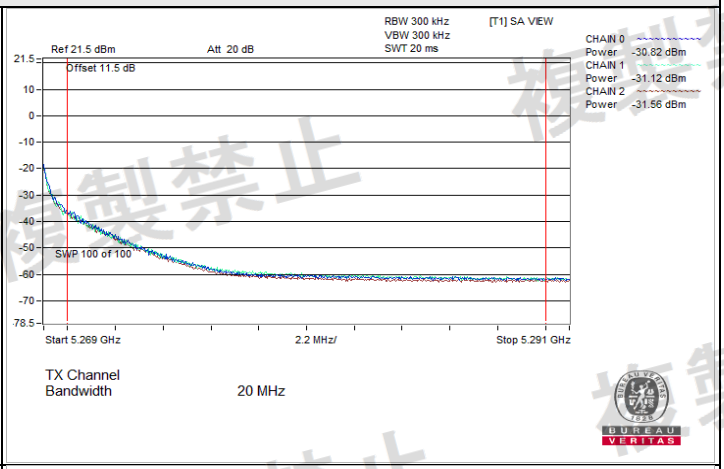


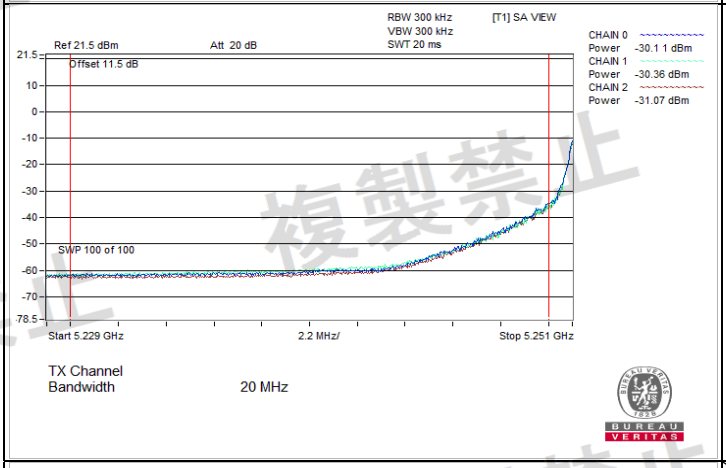


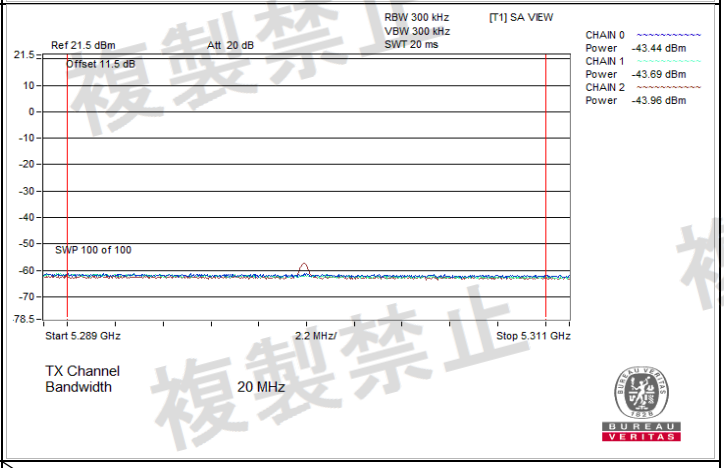
CH 48 (5240 MHz)

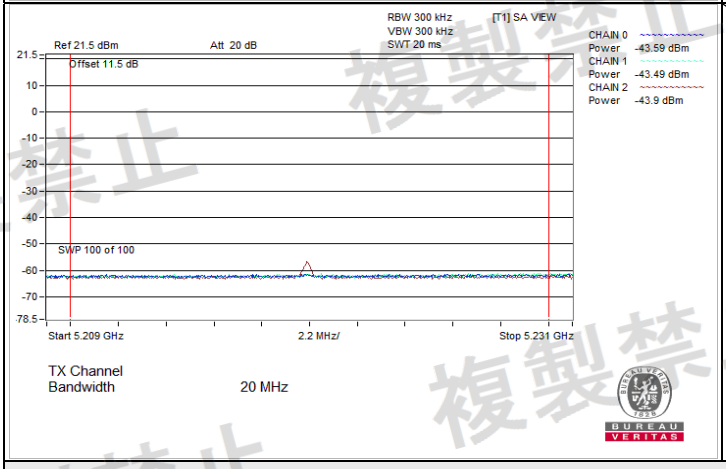
Vnormal





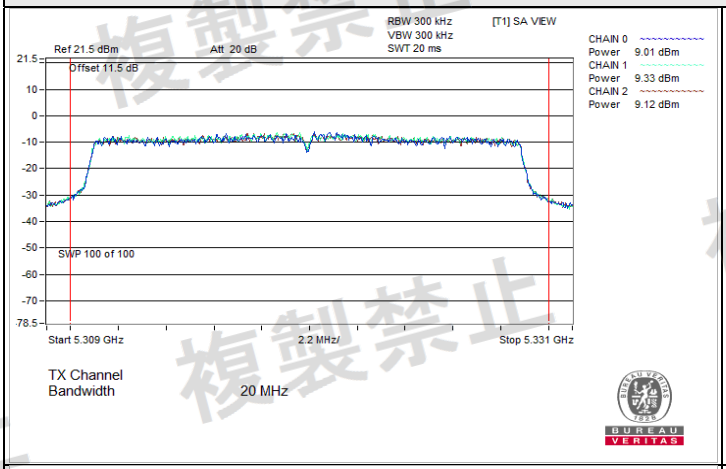


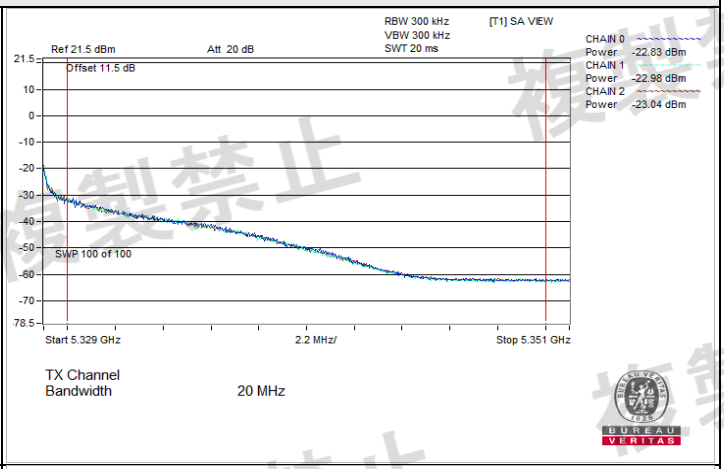


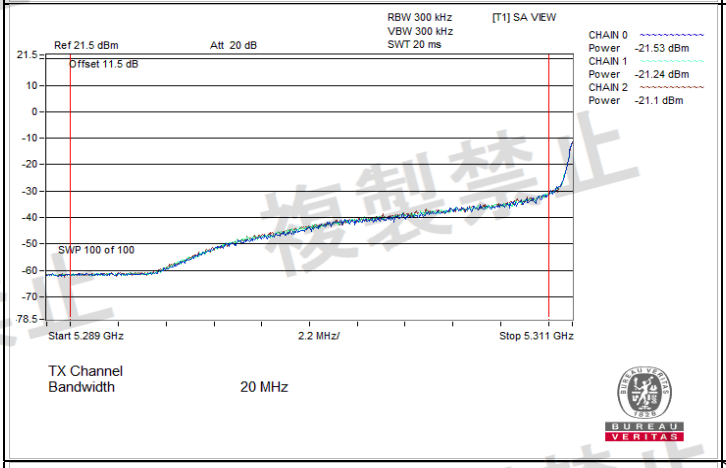


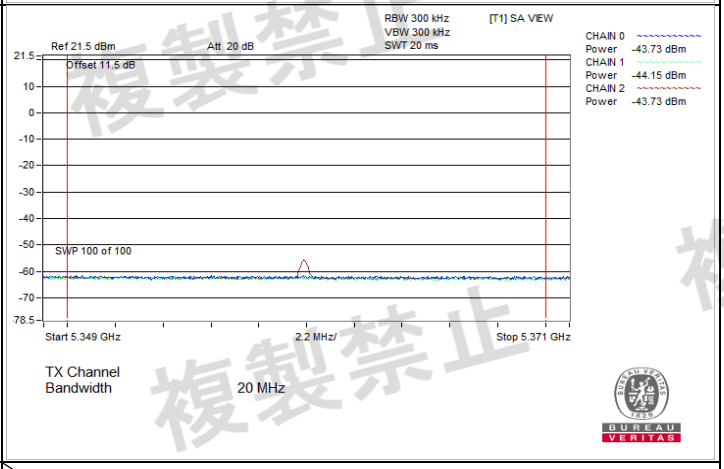
CH 52 (5260 MHz)

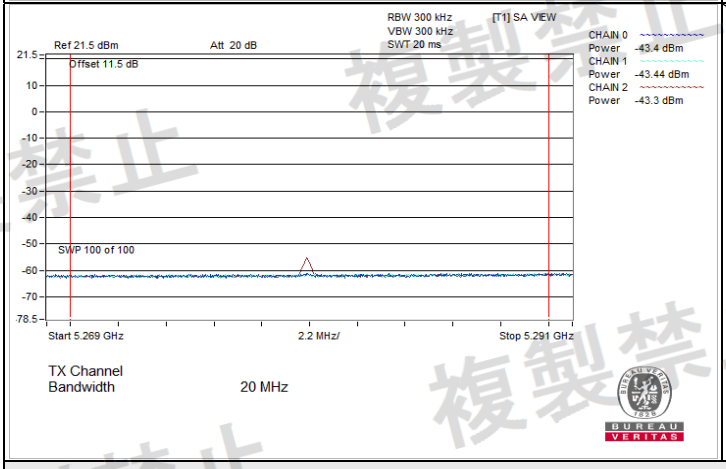
Vnormal











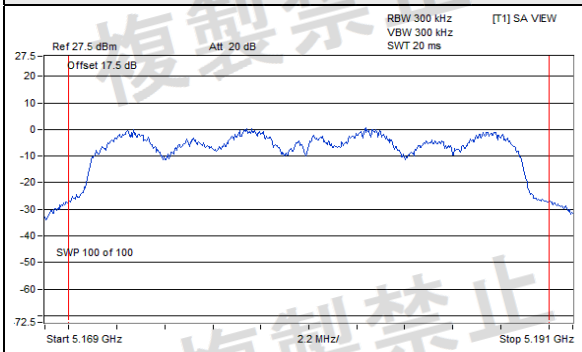
CH 64 (5320 MHz)

802.11ac (VHT20) Use combiner W52&53

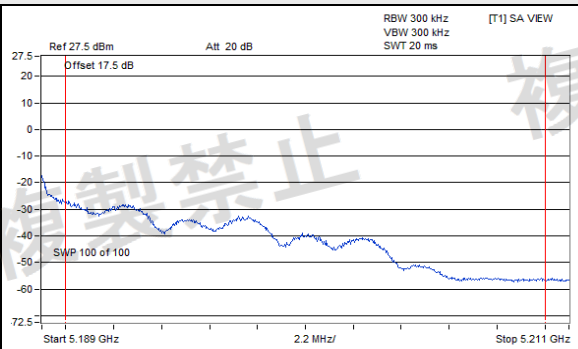
Test Condition \ Test Channel		CH 36 (5180 MHz)	CH 48 (5240 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	13.92	13.70	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	30.94	44.54	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	32.29	43.25	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.12	52.13	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	52.07	51.93	40	PASS
Test Condition \ Test Channel		CH 52 (5260 MHz)	CH 64 (5320 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.04	13.29	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	39.91	32.26	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	40.33	30.69	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.45	51.88	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	52.35	51.41	40	PASS

複製禁止

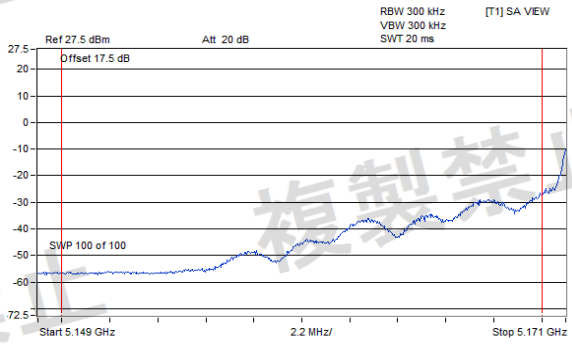
Vnormal



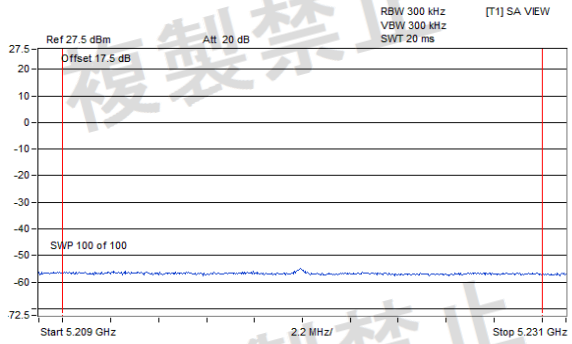
TX Channel Bandwidth 20 MHz Power 13.92 dBm



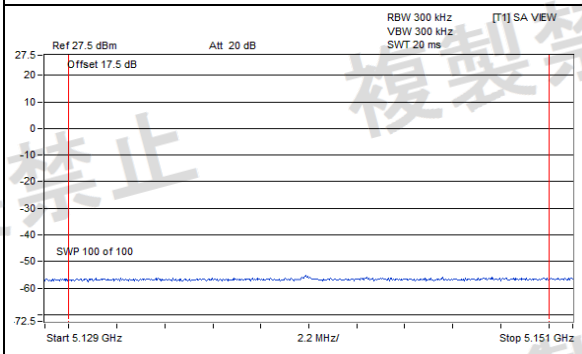
TX Channel Bandwidth 20 MHz Power -17.02 dBm



TX Channel Bandwidth 20 MHz Power -18.37 dBm



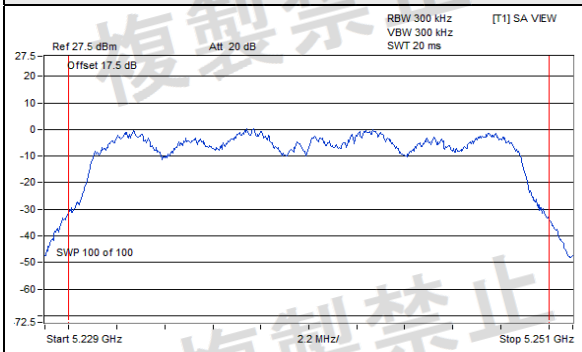
TX Channel Bandwidth 20 MHz Power -38.2 dBm



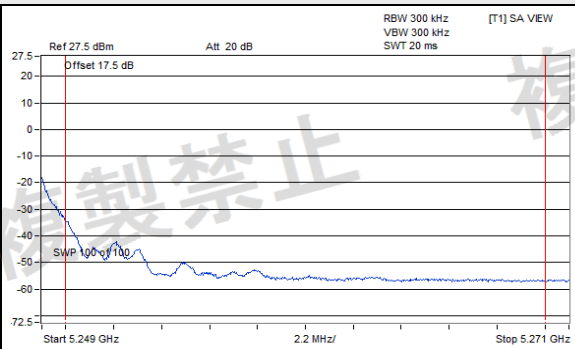
TX Channel Bandwidth 20 MHz Power -38.15 dBm

CH 36 (5180 MHz)

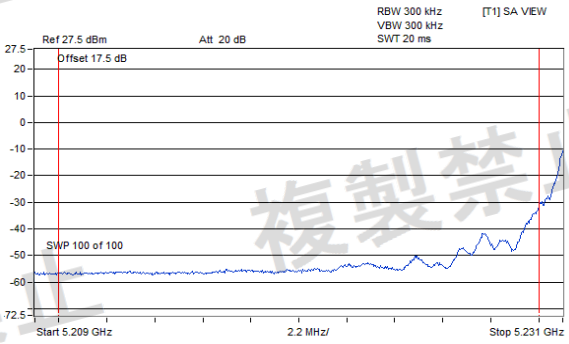
Vnormal



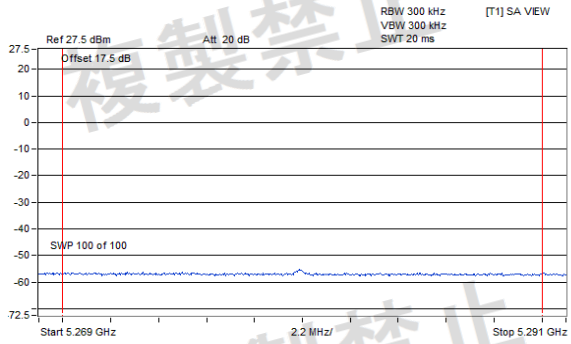
TX Channel Bandwidth 20 MHz Power 13.7 dBm



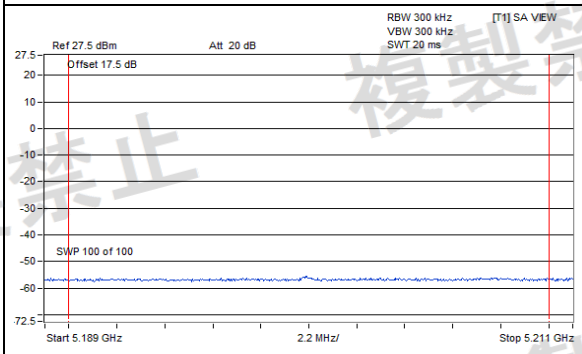
TX Channel Bandwidth 20 MHz Power -30.84 dBm



TX Channel Bandwidth 20 MHz Power -29.55 dBm



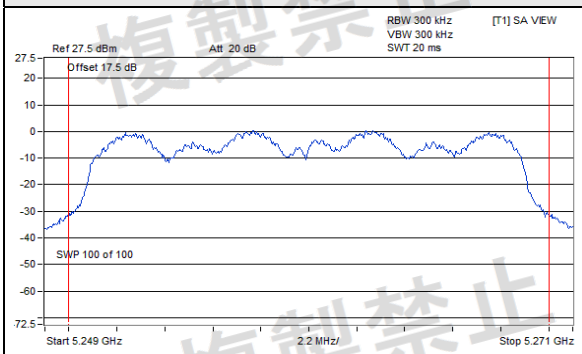
TX Channel Bandwidth 20 MHz Power -38.43 dBm



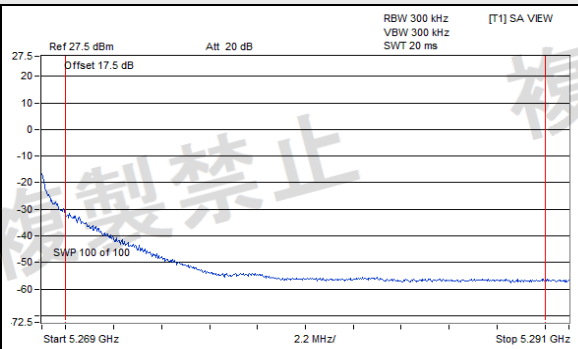
TX Channel Bandwidth 20 MHz Power -38.23 dBm

CH 48 (5240 MHz)

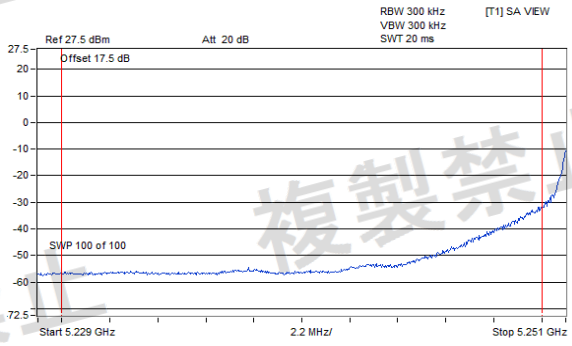
Vnormal



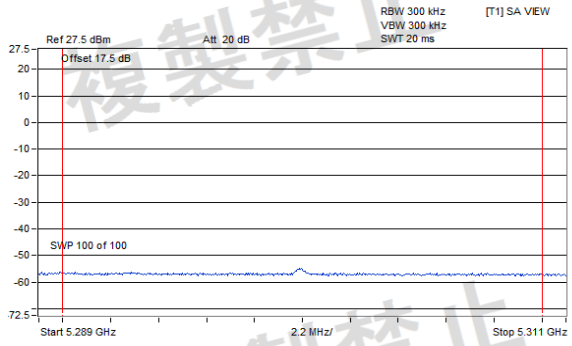
TX Channel Bandwidth 20 MHz Power 14.04 dBm



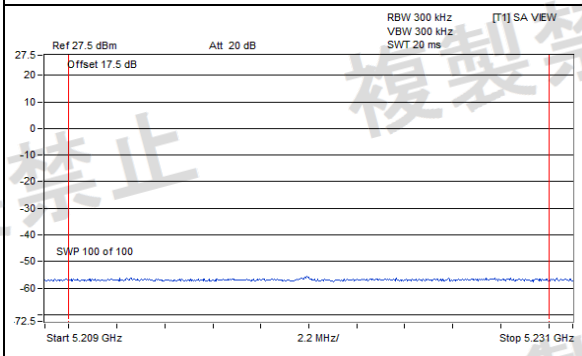
TX Channel Bandwidth 20 MHz Power -25.87 dBm



TX Channel Bandwidth 20 MHz Power -26.29 dBm



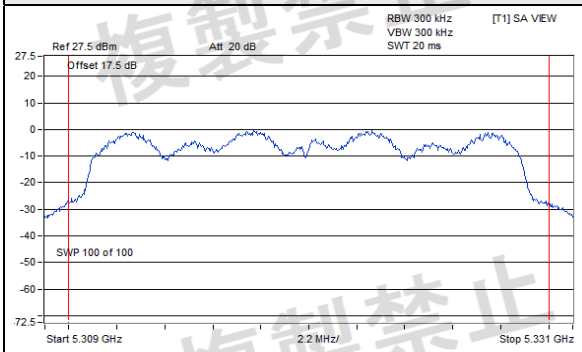
TX Channel Bandwidth 20 MHz Power -38.41 dBm



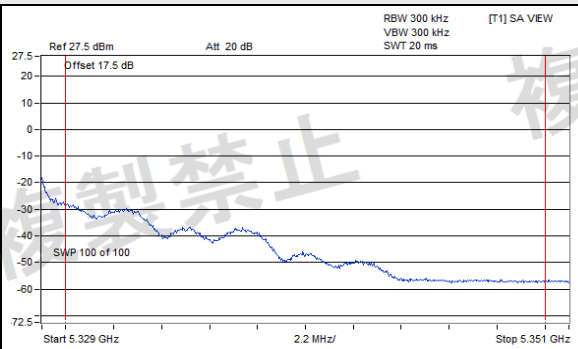
TX Channel Bandwidth 20 MHz Power -38.31 dBm

CH 52 (5260 MHz)

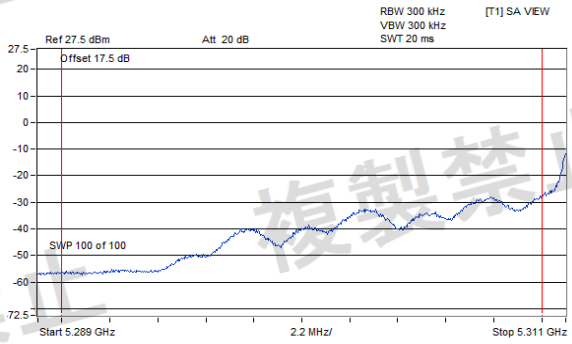
Vnormal



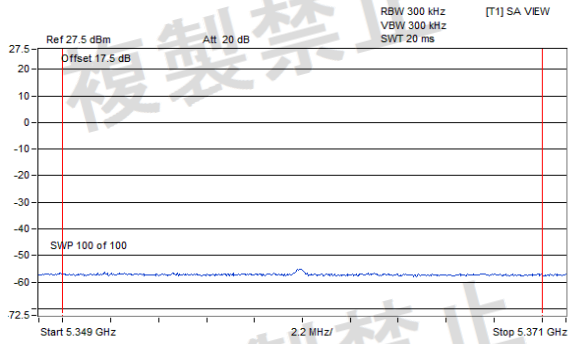
TX Channel Bandwidth 20 MHz Power 13.29 dBm



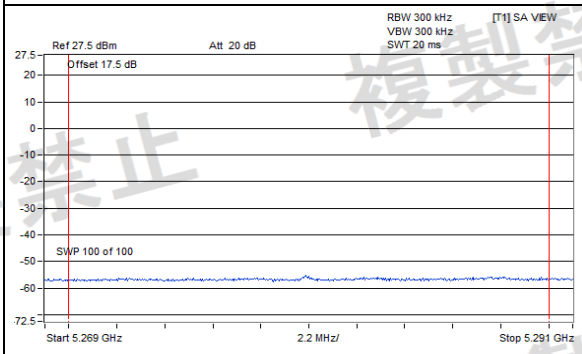
TX Channel Bandwidth 20 MHz Power -18.97 dBm



TX Channel Bandwidth 20 MHz Power -17.4 dBm



TX Channel Bandwidth 20 MHz Power -38.59 dBm



TX Channel Bandwidth 20 MHz Power -38.12 dBm

CH 64 (5320 MHz)

802.11ac (VHT20) Sum of each Chain W52&53

TEST CHANNEL		CH 36 (5180 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	MIN. LIMIT (dBc)	RESULT
V_{normal}	Mean Power of Carrier (dBm)	14.23	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	35.81	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	36.71	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	57.79	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	57.68	40	PASS
TEST CHANNEL		CH 48 (5240 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	14.12	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	48.82	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	47.61	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	57.92	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	57.68	40	PASS
TEST CHANNEL		CH 52 (5260 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	14.08	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	45.24	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	44.59	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	57.77	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	57.74	40	PASS
TEST CHANNEL		CH 64 (5320 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	13.93	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	36.88	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	35.22	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	57.81	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	57.31	40	PASS

802.11ac (VHT20) Chain 0 W56

Test Condition \ Test Channel		CH 100 (5500 MHz)	CH 120 (5600 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.07	15.34	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	31.18	38.96	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	32.03	38.47	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	55.04	52.35	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	55.37	52.86	40	PASS

Test Condition \ Test Channel		CH 144 (5720 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.50	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	39.10	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	38.30	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.55	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	51.64	40	PASS

802.11ac (VHT20) Chain 1 W56

Test Condition \ Test Channel		CH 100 (5500 MHz)	CH 120 (5600 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.26	15.69	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	30.91	36.72	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	32.17	36.54	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	55.12	49.39	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	56.03	49.37	40	PASS

Test Condition \ Test Channel		CH 144 (5720 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.85	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	38.73	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	37.56	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	51.13	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	50.94	40	PASS

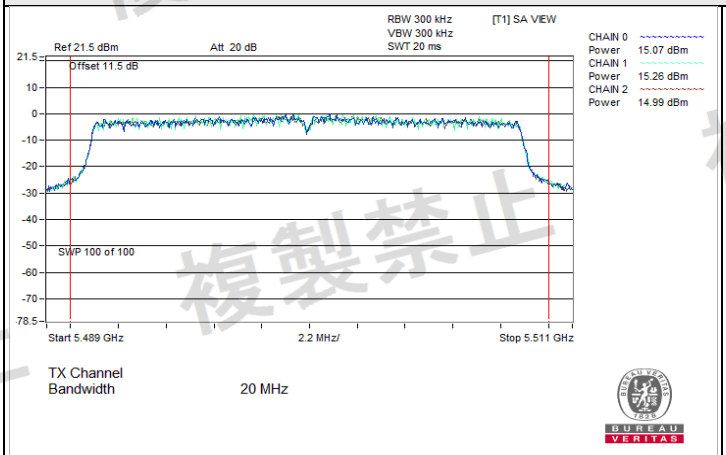
802.11ac (VHT20) Chain 2 W56

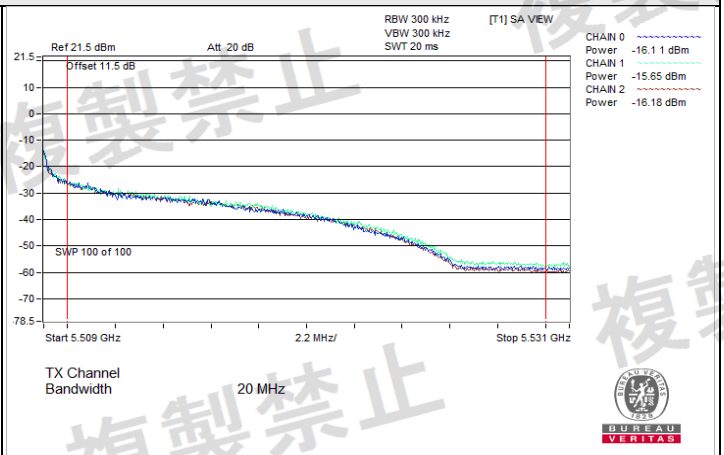
Test Condition \ Test Channel		CH 100 (5500 MHz)	CH 120 (5600 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.99	15.49	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	31.17	39.80	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	32.34	38.85	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	55.98	53.25	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	55.88	53.17	40	PASS

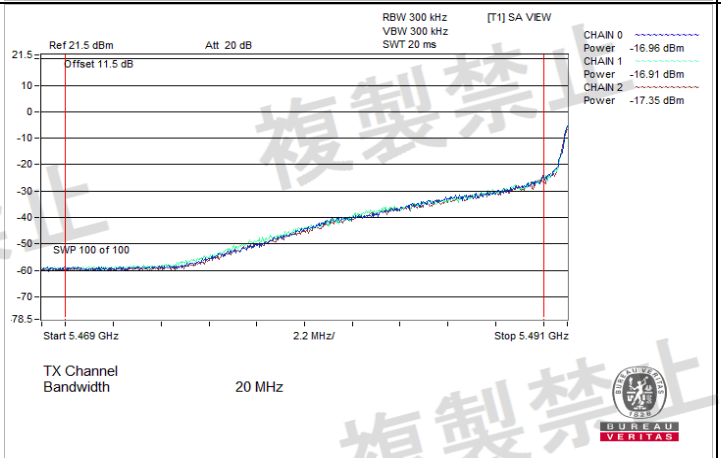
Test Condition \ Test Channel		CH 144 (5720 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.99	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	39.88	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	39.15	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	53.55	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	54.41	40	PASS

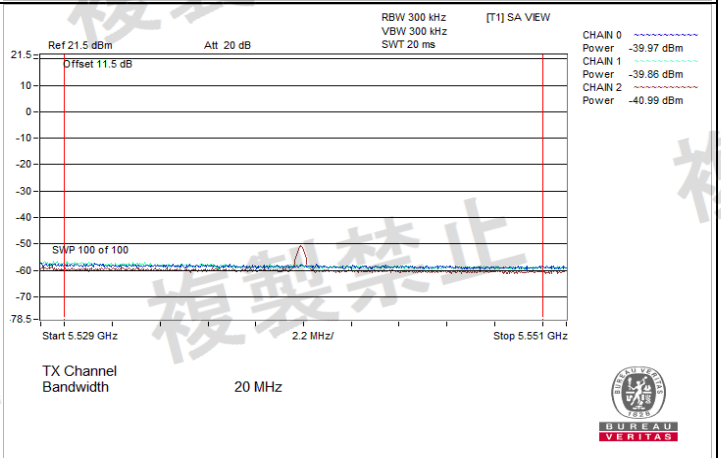
802.11ac (VHT20) Graph W56

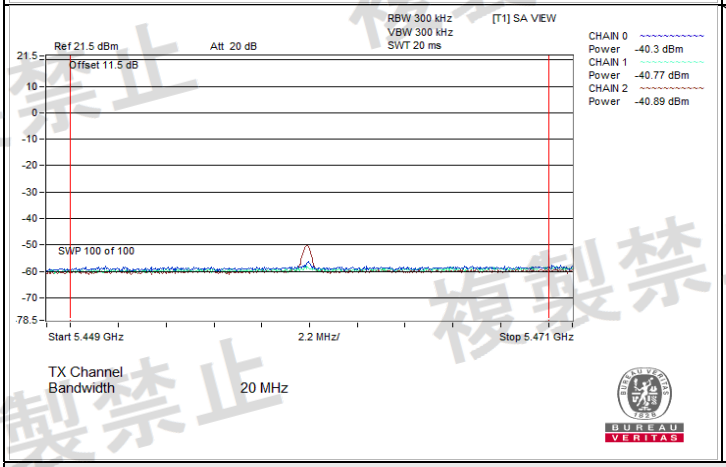
Vnormal





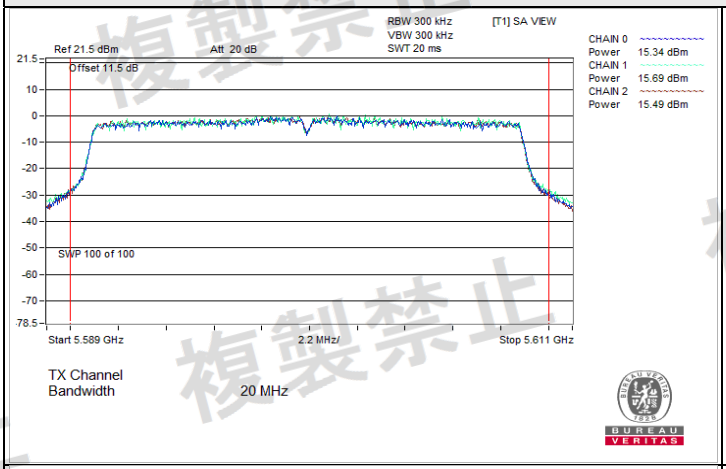


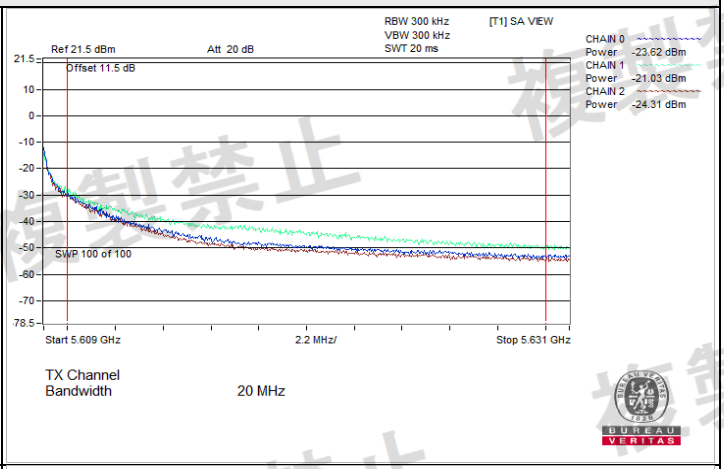


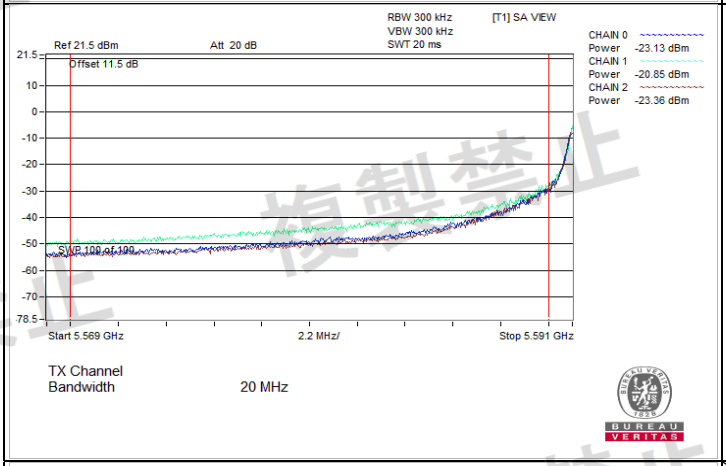


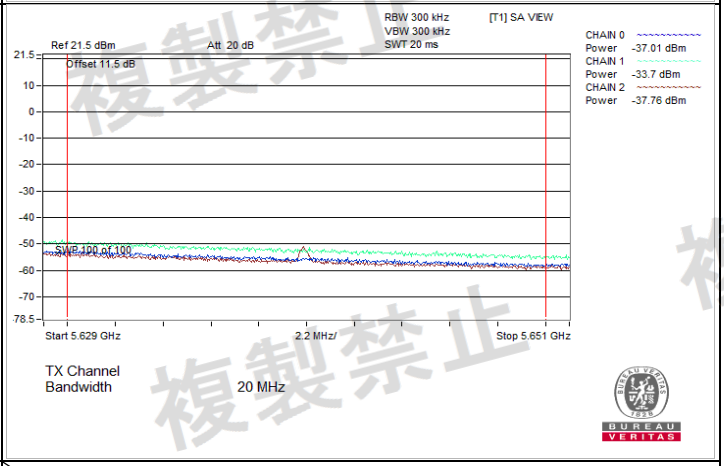
CH 100 (5500 MHz)

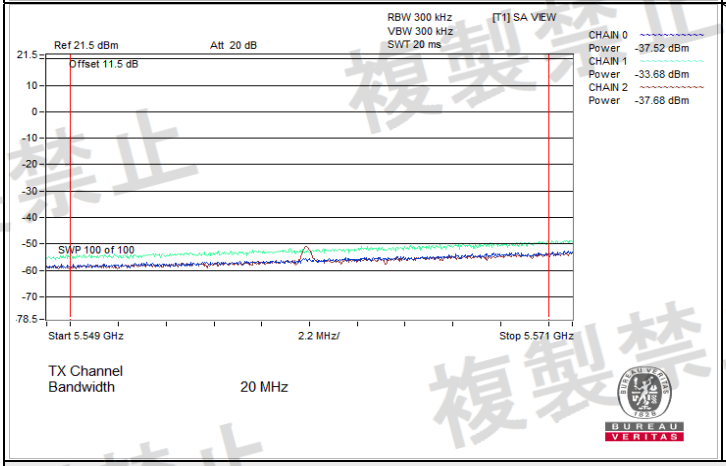
Vnormal





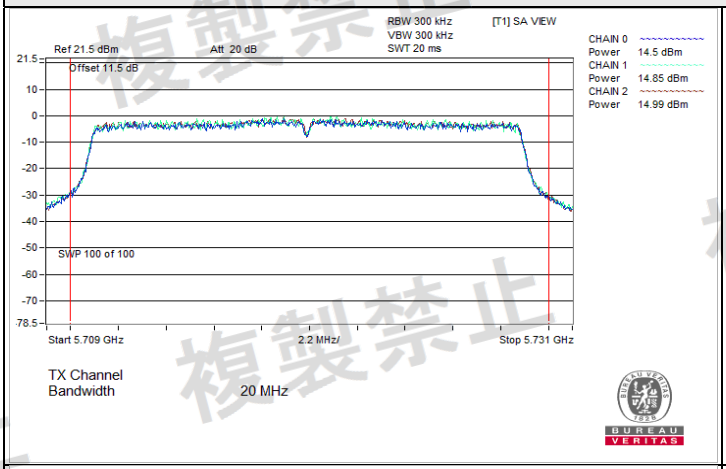


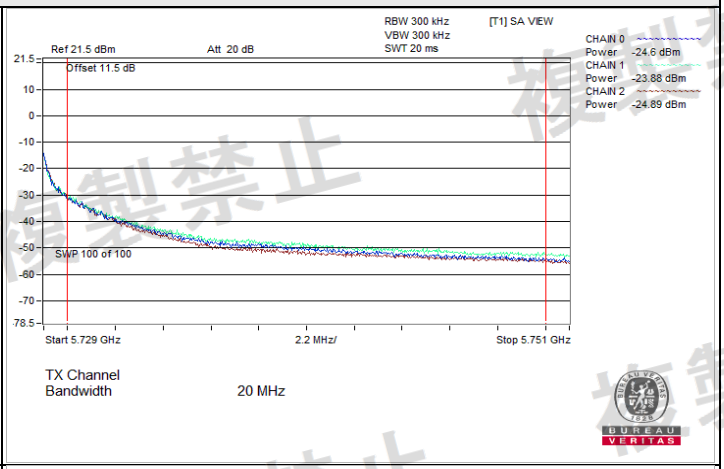


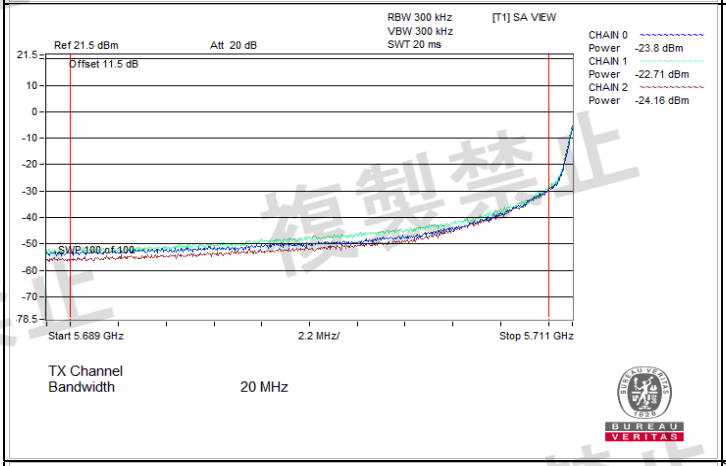


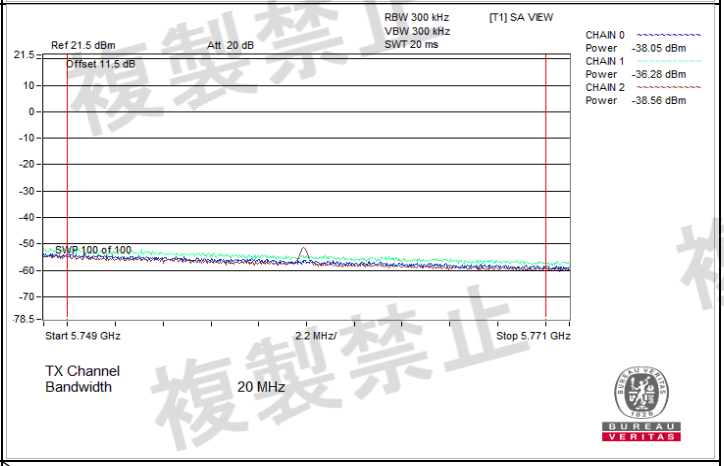
CH 120 (5600 MHz)

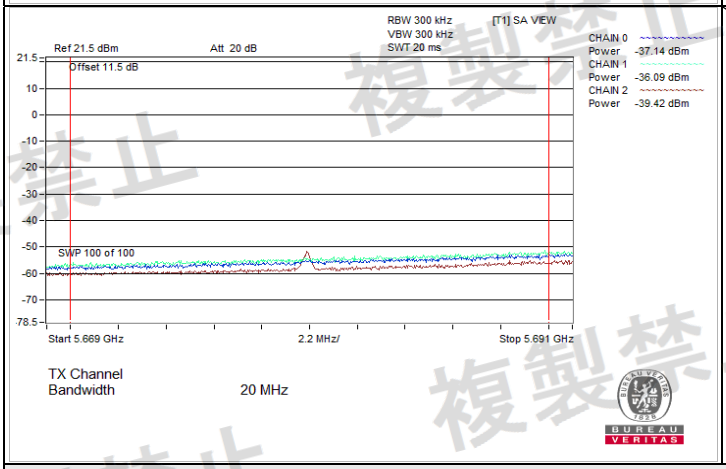
Vnormal











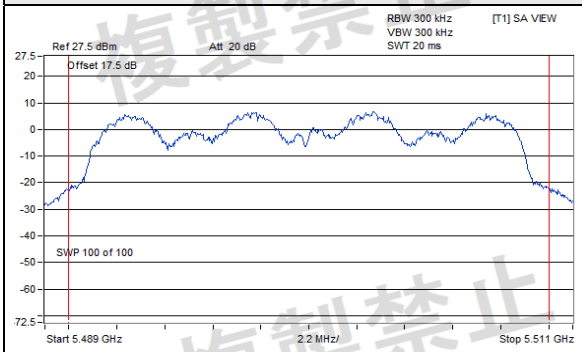
CH 144 (5720 MHz)

802.11ac (VHT20) Use combiner W56

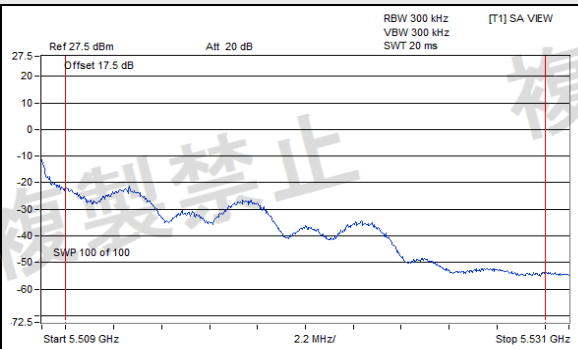
Test Condition \ Test Channel		CH 100 (5500 MHz)	CH 120 (5600 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	19.53	20.01	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	31.28	38.52	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	32.70	38.80	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	55.30	52.48	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	56.11	52.77	40	PASS

Test Condition \ Test Channel		CH 144 (5720 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	19.51	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	39.31	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	38.64	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.58	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	52.42	40	PASS

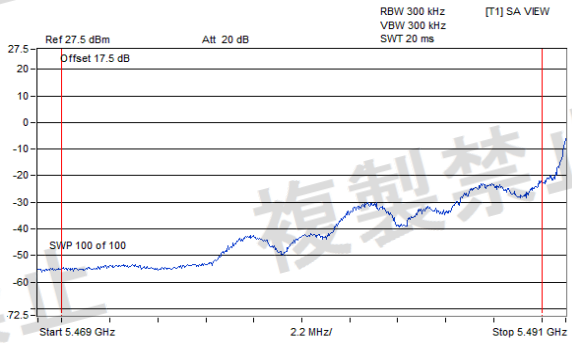
Vnormal



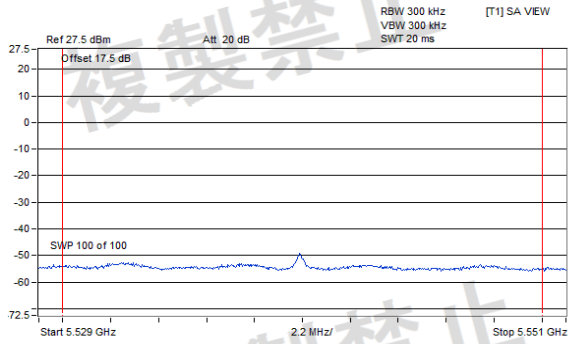
TX Channel Bandwidth 20 MHz Power 19.53 dBm



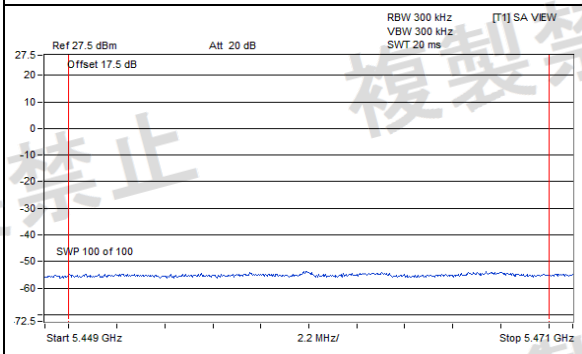
TX Channel Bandwidth 20 MHz Power -11.75 dBm



TX Channel Bandwidth 20 MHz Power -13.17 dBm



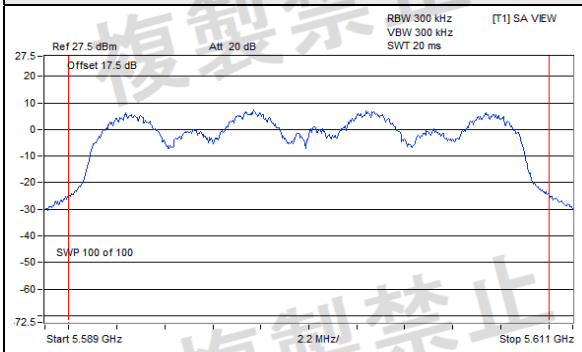
TX Channel Bandwidth 20 MHz Power -35.77 dBm



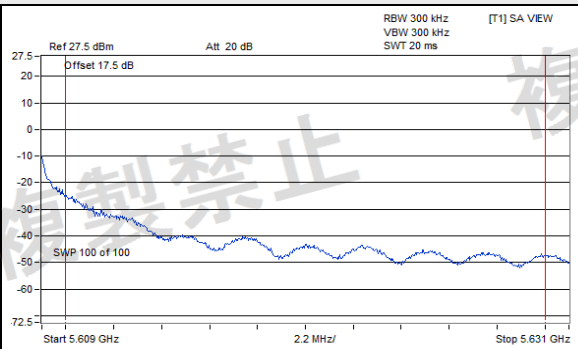
TX Channel Bandwidth 20 MHz Power -36.58 dBm

CH 100 (5500 MHz)

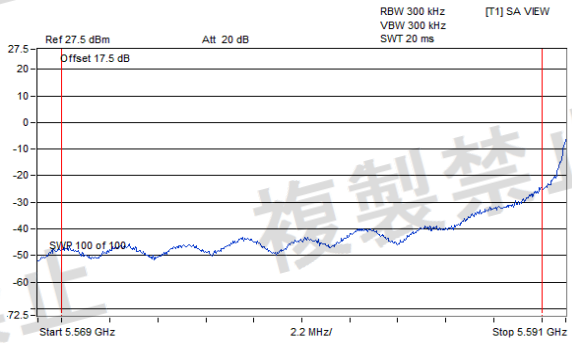
Vnormal



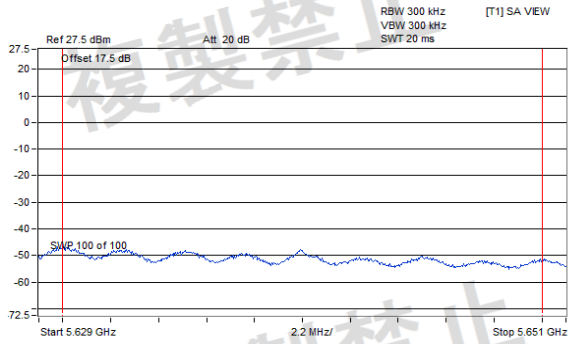
TX Channel Bandwidth 20 MHz Power 20.01 dBm



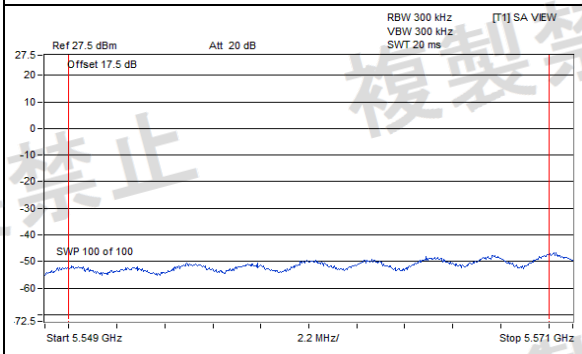
TX Channel Bandwidth 20 MHz Power -18.51 dBm



TX Channel Bandwidth 20 MHz Power -18.79 dBm



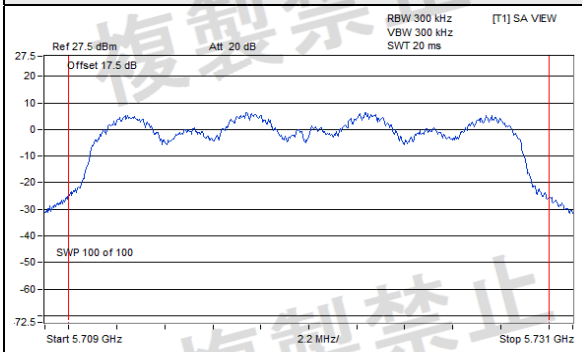
TX Channel Bandwidth 20 MHz Power -32.47 dBm



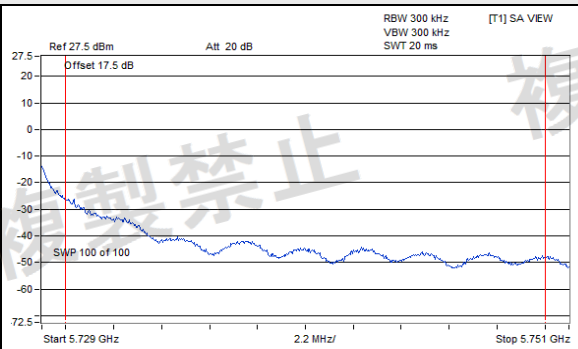
TX Channel Bandwidth 20 MHz Power -32.76 dBm

CH 120 (5600 MHz)

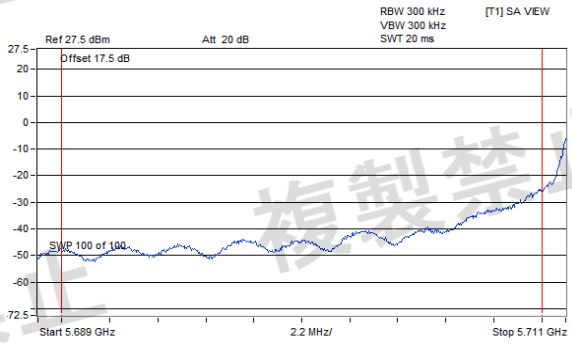
Vnormal



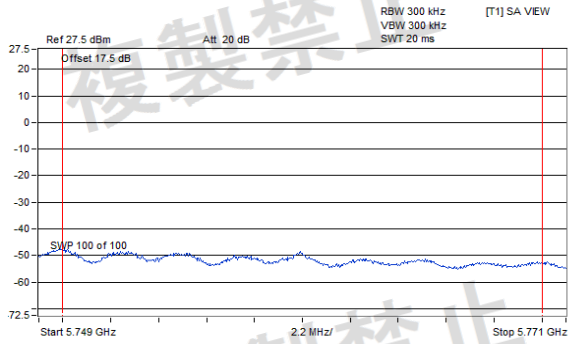
TX Channel Bandwidth 20 MHz Power 19.51 dBm



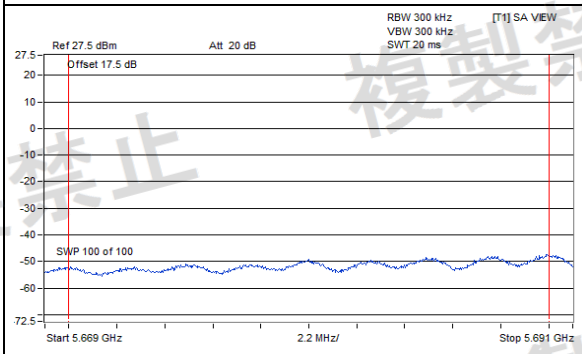
TX Channel Bandwidth 20 MHz Power -19.8 dBm



TX Channel Bandwidth 20 MHz Power -19.13 dBm



TX Channel Bandwidth 20 MHz Power -33.07 dBm



TX Channel Bandwidth 20 MHz Power -32.91 dBm

CH 144 (5720 MHz)

802.11ac (VHT20) Sum of each Chain W56

TEST CHANNEL		CH 100 (5500 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	MIN. LIMIT (dBc)	RESULT
V_{normal}	Mean Power of Carrier (dBm)	19.88	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	35.86	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	36.95	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	60.17	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	60.54	40	PASS
TEST CHANNEL		CH 120 (5600 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	20.28	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	43.45	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	42.84	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	56.72	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	56.88	40	PASS
TEST CHANNEL		CH 144 (5720 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	19.56	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	44.03	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	43.16	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	57.29	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	57.37	40	PASS

802.11ac (VHT40) Chain 0 W52&53

Test Condition \ Test Channel		CH 38 (5190 MHz)	CH 46 (5230 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	8.64	8.40	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	32.13	44.79	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	34.34	44.44	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	49.64	49.52	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	49.49	49.27	40	PASS
Test Condition \ Test Channel		**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**	**Min. Limit (dBc)**	**Result**
V_{normal}	Mean Power of Carrier (dBm)	8.89	8.85	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	45.11	33.98	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	44.81	31.98	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	50.09	49.67	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	49.81	49.66	40	PASS

802.11ac (VHT40) Chain 1 W52&53

Test Condition \ Test Channel		CH 38 (5190 MHz)	CH 46 (5230 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	8.48	8.86	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	31.91	44.98	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	34.10	44.57	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	49.61	50.22	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	49.48	49.77	40	PASS
Test Condition \ Test Channel		**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**	**Min. Limit (dBc)**	**Result**
V_{normal}	Mean Power of Carrier (dBm)	8.51	8.15	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	44.82	34.30	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	44.57	31.78	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	50.05	49.48	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	49.52	49.12	40	PASS

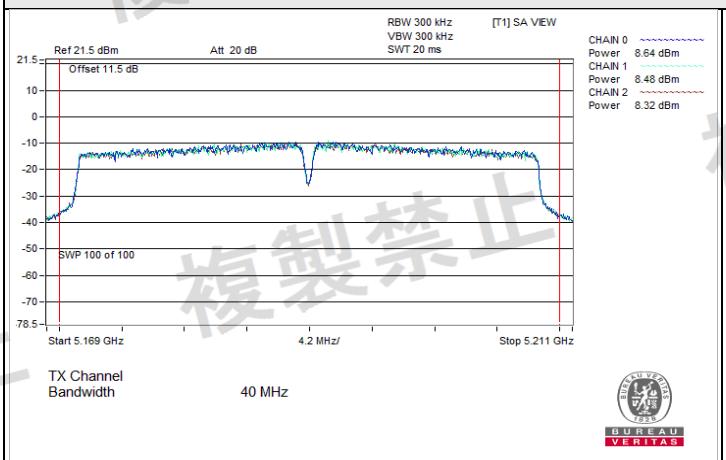
802.11ac (VHT40) Chain 2 W52&53

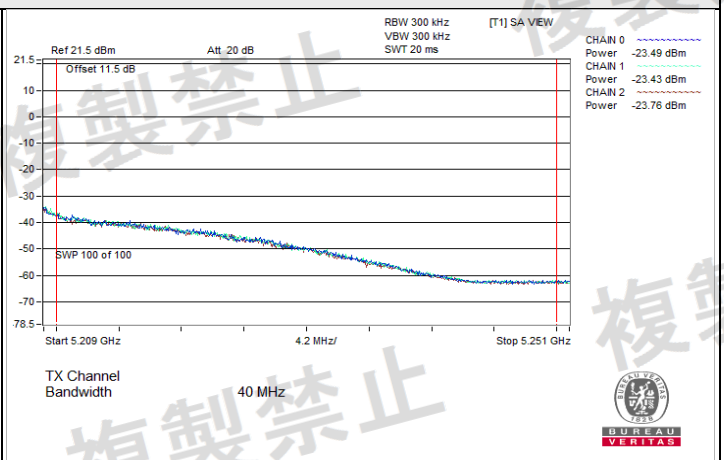
Test Condition \ Test Channel		CH 38 (5190 MHz)	CH 46 (5230 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	8.32	8.00	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	32.08	44.72	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	33.89	44.10	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	49.72	49.59	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	49.40	48.96	40	PASS
Test Condition \ Test Channel		**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**	**Min. Limit (dBc)**	**Result**
V_{normal}	Mean Power of Carrier (dBm)	8.26	8.13	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	44.71	34.19	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	44.33	31.33	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	49.80	49.16	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	49.18	49.04	40	PASS

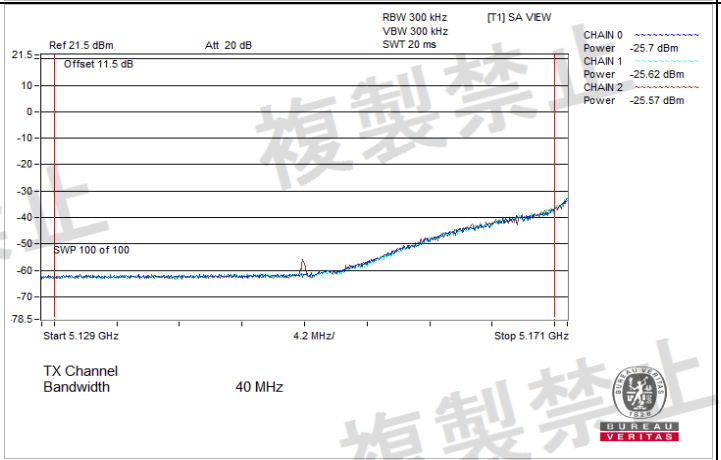
複製禁止

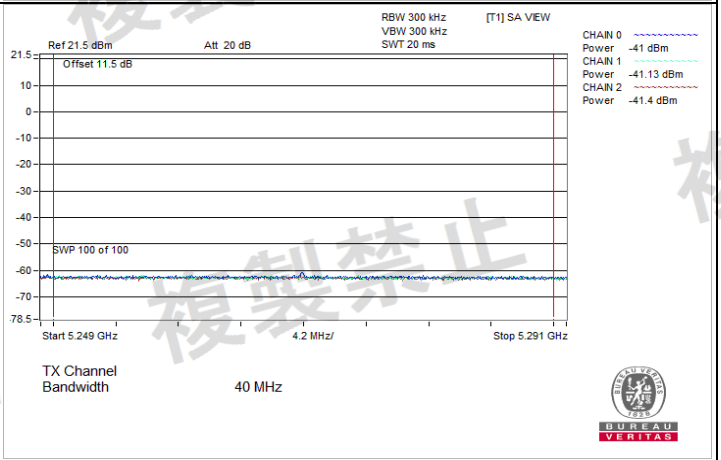
802.11ac (VHT40) Graph W52&53

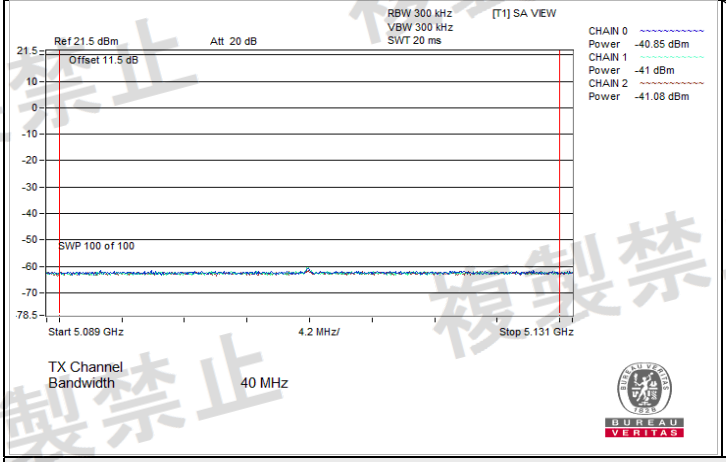
Vnormal





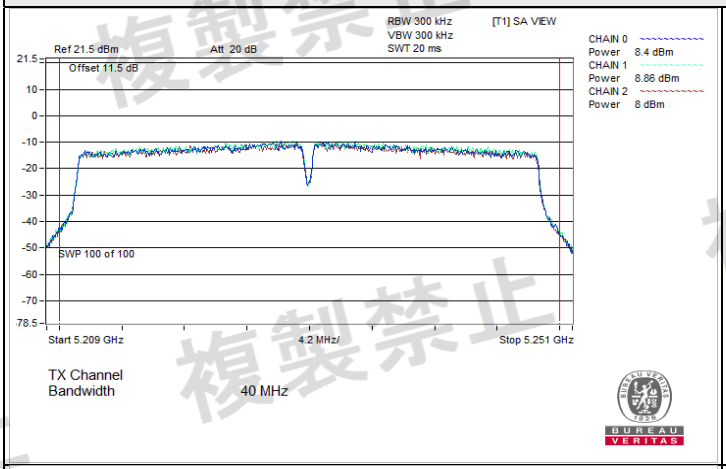




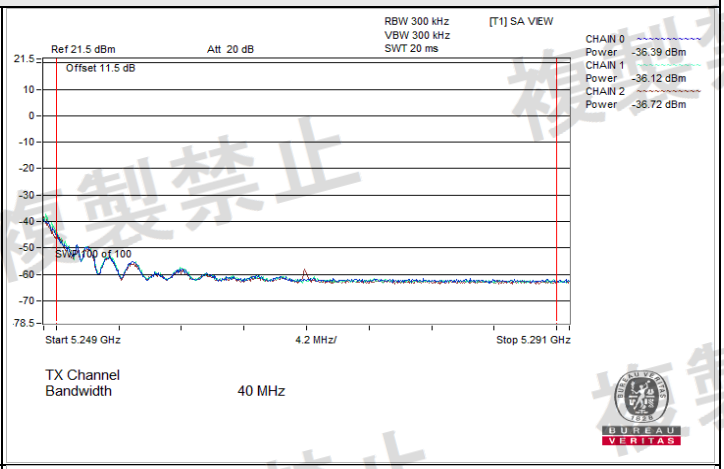


CH 38 (5190 MHz)

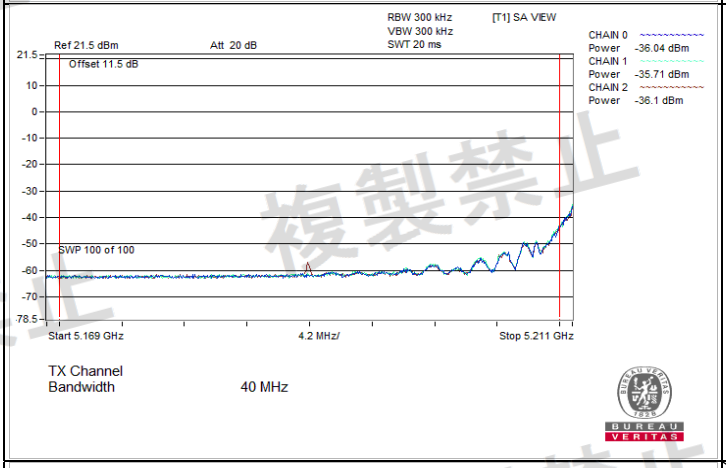
Vnormal



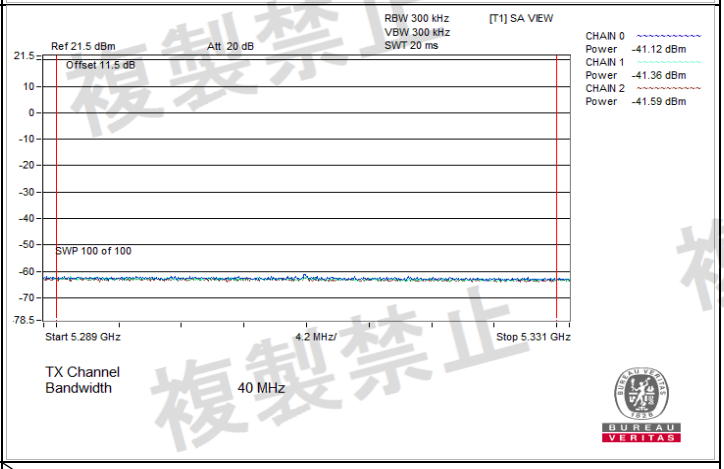
TX Channel Bandwidth 40 MHz



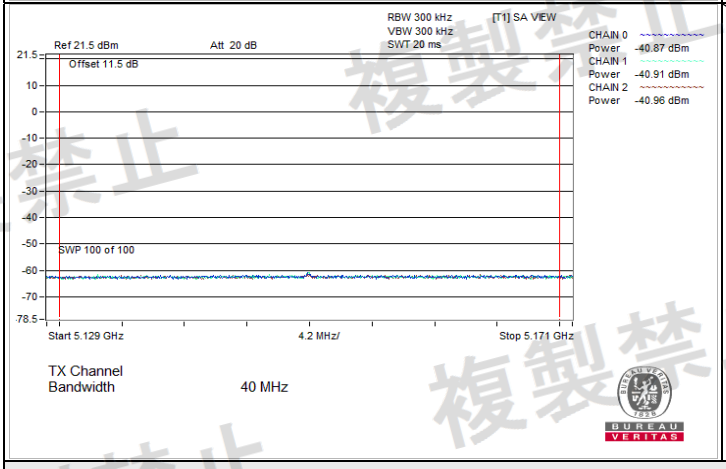
TX Channel Bandwidth 40 MHz



TX Channel Bandwidth 40 MHz



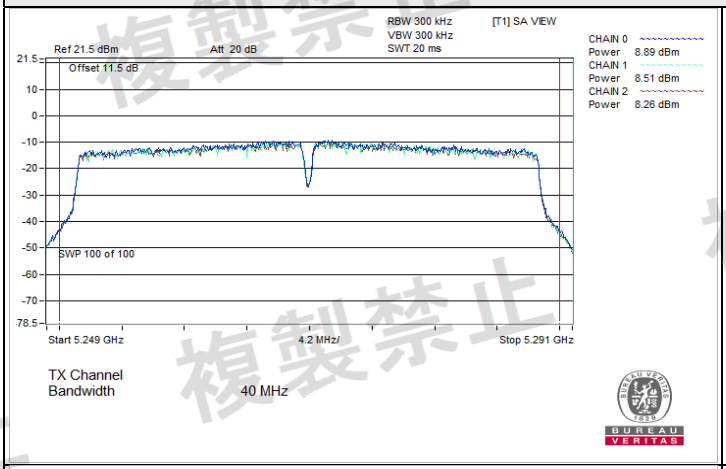
TX Channel Bandwidth 40 MHz

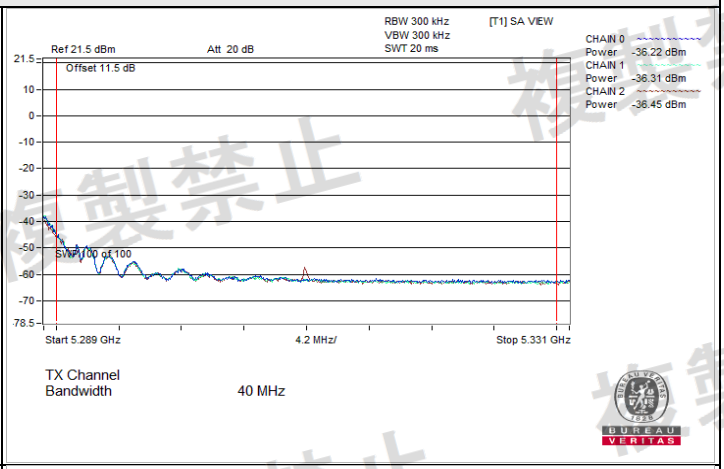


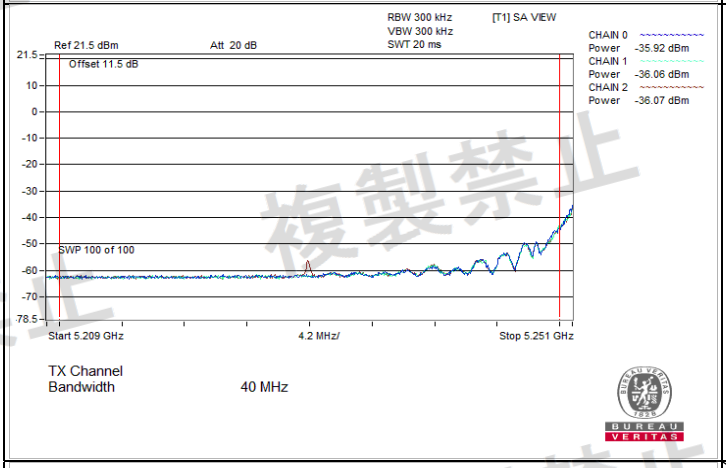
TX Channel Bandwidth 40 MHz

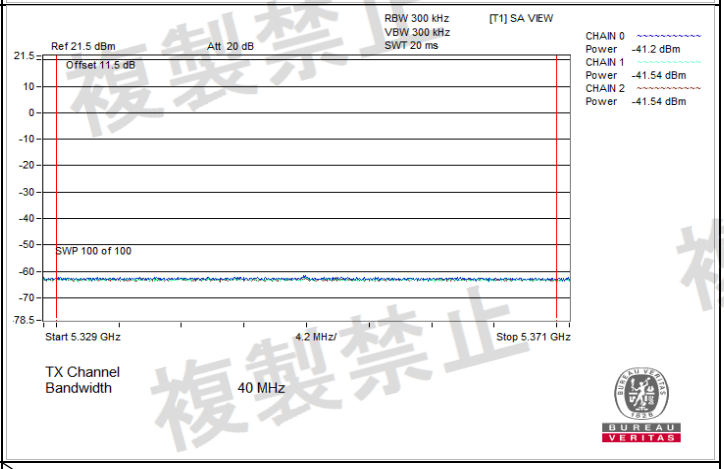
CH 46 (5230 MHz)

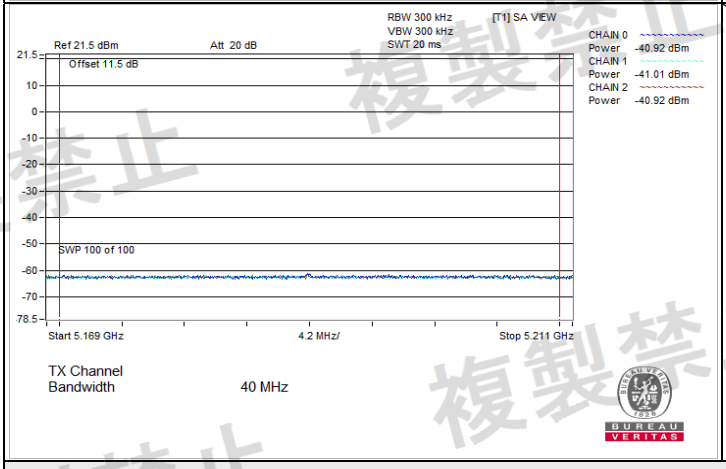
Vnormal





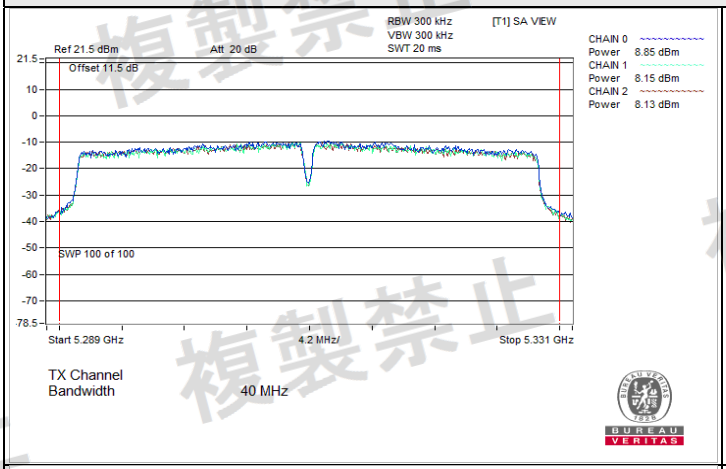


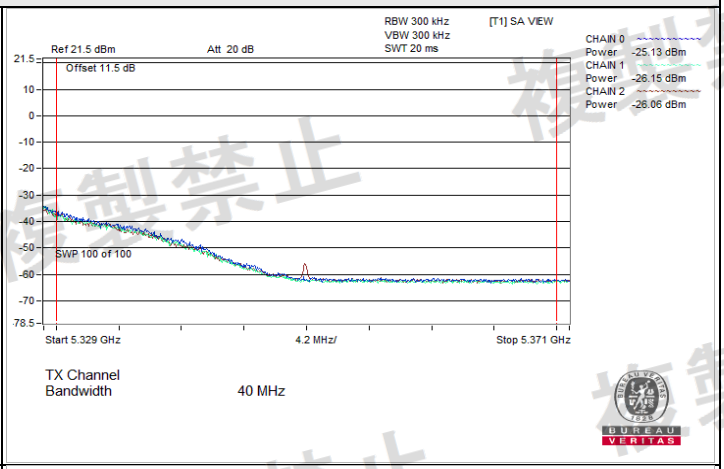


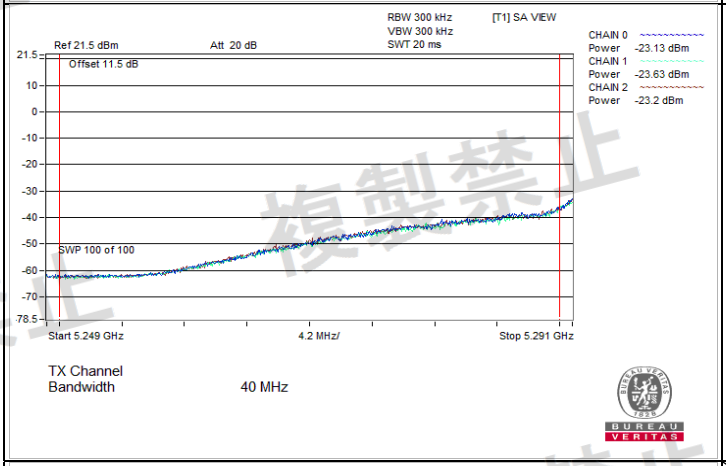


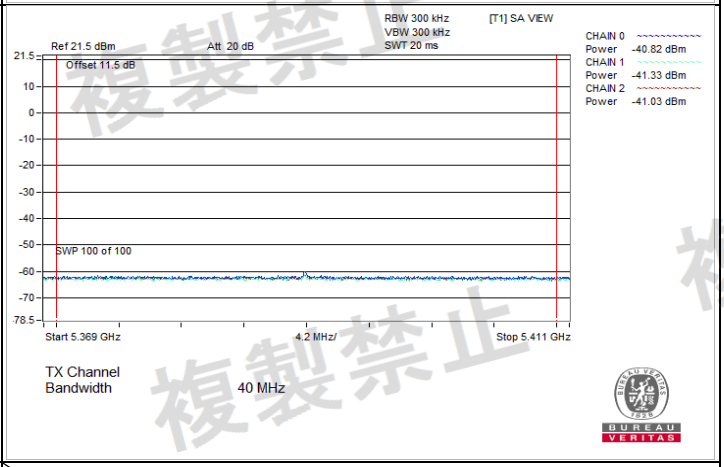
CH 54 (5270 MHz)

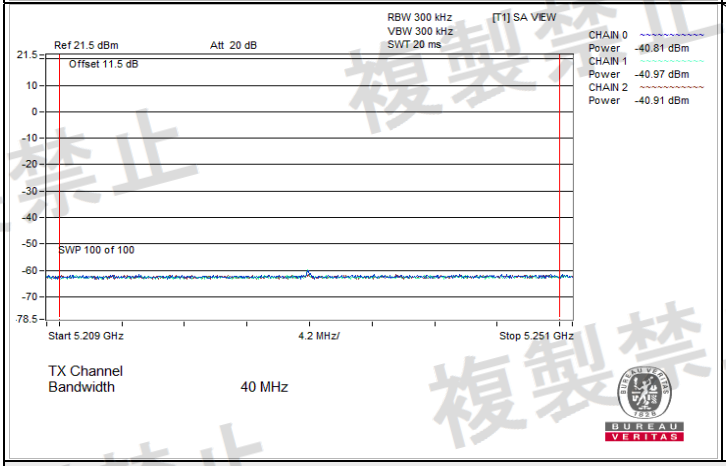
Vnormal











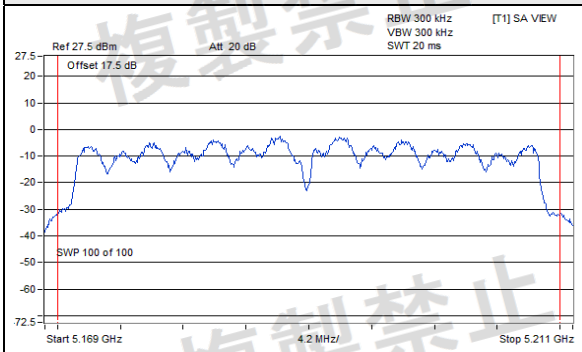
CH 62 (5310 MHz)

802.11ac (VHT40) Use combiner W52&53

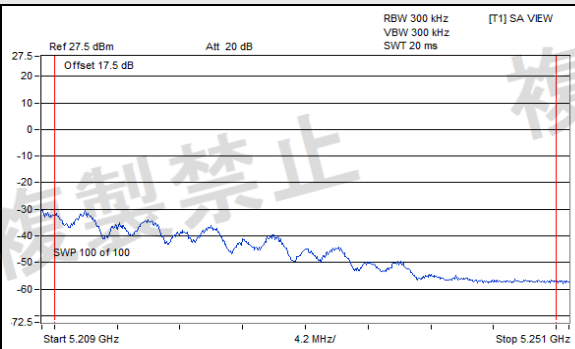
Test Condition \ Test Channel		CH 38 (5190 MHz)	CH 46 (5230 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	13.17	12.83	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	31.96	43.83	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	34.18	43.32	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	48.75	48.73	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	48.50	48.29	40	PASS
Test Condition \ Test Channel		**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**	**Min. Limit (dBc)**	**Result**
V_{normal}	Mean Power of Carrier (dBm)	13.20	12.81	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	43.81	34.36	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	43.32	31.70	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	49.18	48.54	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	48.64	48.30	40	PASS

複製禁止

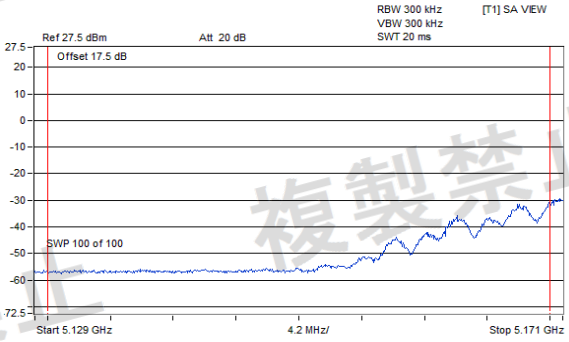
Vnormal



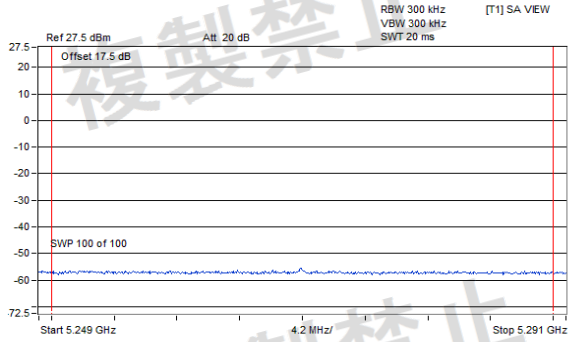
TX Channel Bandwidth 40 MHz Power 13.17 dBm



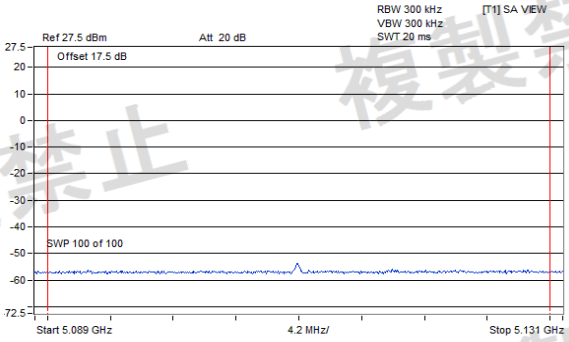
TX Channel Bandwidth 40 MHz Power -18.79 dBm



TX Channel Bandwidth 40 MHz Power -21.01 dBm



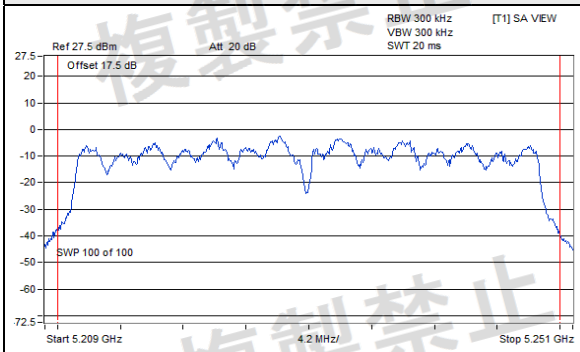
TX Channel Bandwidth 40 MHz Power -35.58 dBm



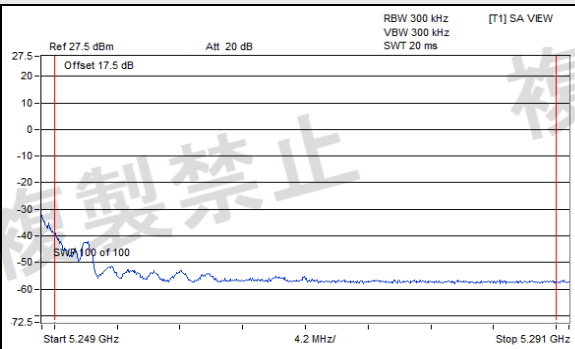
TX Channel Bandwidth 40 MHz Power -35.33 dBm

CH 38 (5190 MHz)

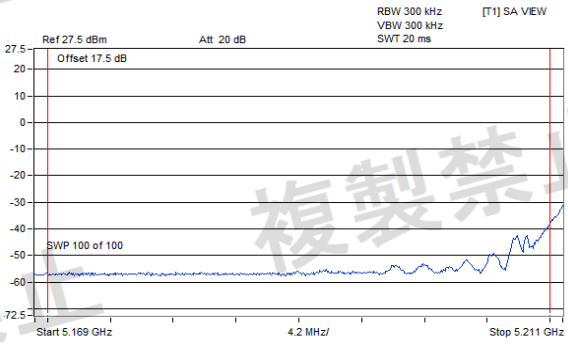
Vnormal



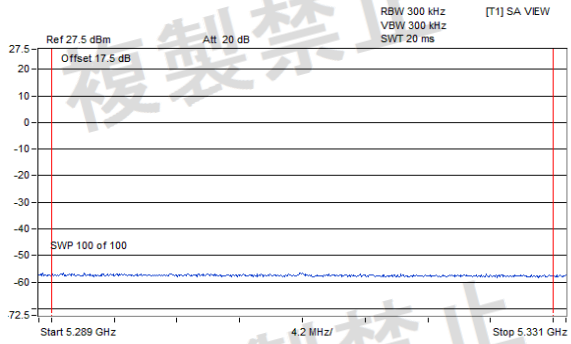
TX Channel Bandwidth 40 MHz Power 12.83 dBm



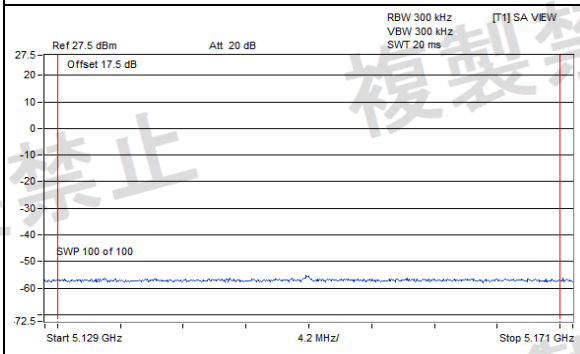
TX Channel Bandwidth 40 MHz Power -31 dBm



TX Channel Bandwidth 40 MHz Power -30.49 dBm



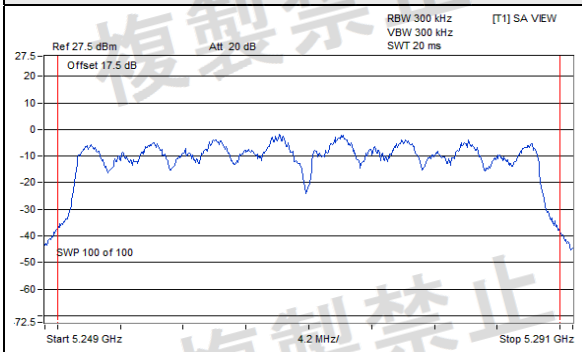
TX Channel Bandwidth 40 MHz Power -35.9 dBm



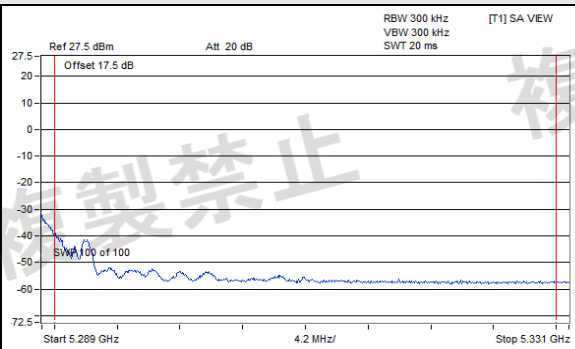
TX Channel Bandwidth 40 MHz Power -35.46 dBm

CH 46 (5230 MHz)

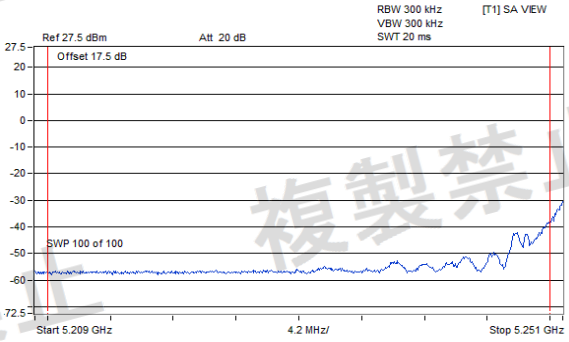
Vnormal



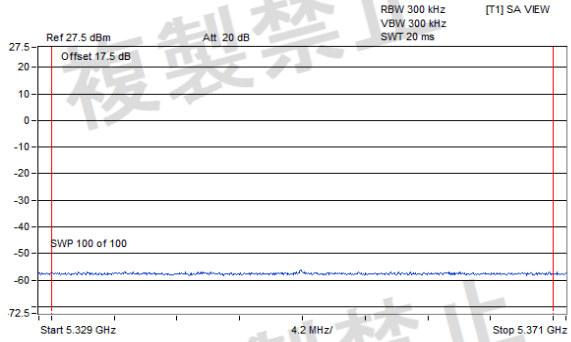
TX Channel Bandwidth 40 MHz Power 13.2 dBm



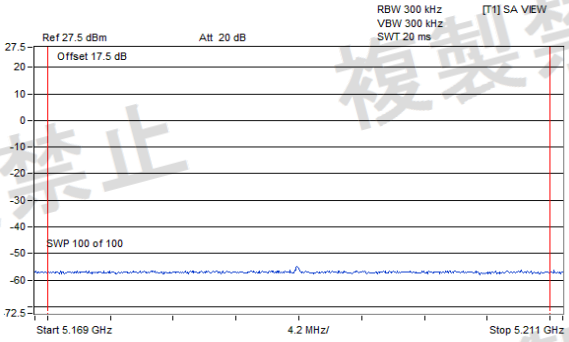
TX Channel Bandwidth 40 MHz Power -30.61 dBm



TX Channel Bandwidth 40 MHz Power -30.12 dBm



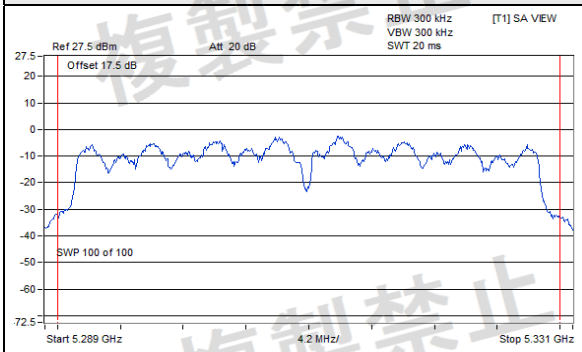
TX Channel Bandwidth 40 MHz Power -35.98 dBm



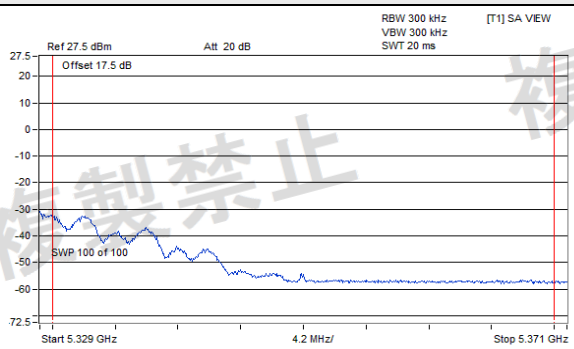
TX Channel Bandwidth 40 MHz Power -35.44 dBm

CH 54 (5270 MHz)

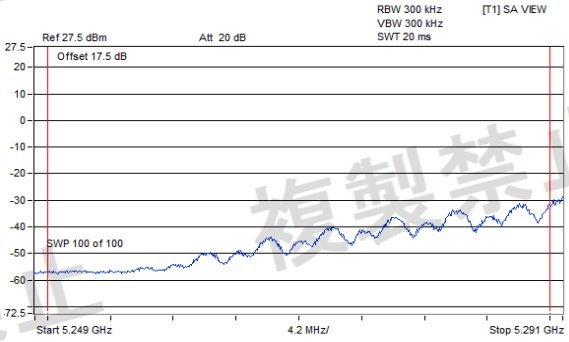
Vnormal



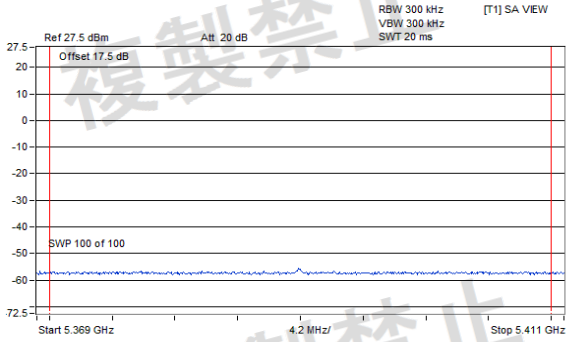
TX Channel Bandwidth 40 MHz Power 12.81 dBm



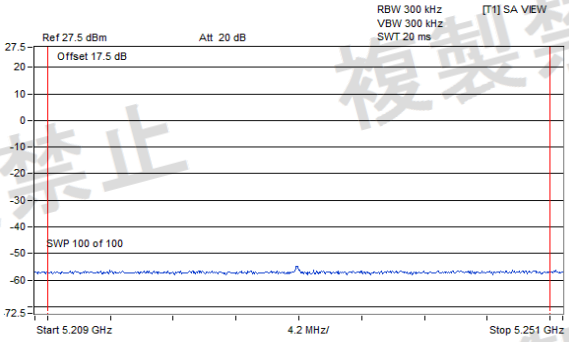
TX Channel Bandwidth 40 MHz Power -21.55 dBm



TX Channel Bandwidth 40 MHz Power -18.89 dBm



TX Channel Bandwidth 40 MHz Power -35.73 dBm



TX Channel Bandwidth 40 MHz Power -35.49 dBm

CH 62 (5310 MHz)

802.11ac (VHT40) Sum of each Chain W52&53

TEST CHANNEL		CH 38 (5190 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	MIN. LIMIT (dBc)	RESULT
V_{normal}	Mean Power of Carrier (dBm)	13.25	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	36.81	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	38.89	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	54.43	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	54.23	40	PASS
TEST CHANNEL		CH 46 (5230 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	13.21	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	49.60	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	49.15	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	54.56	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	54.12	40	PASS
TEST CHANNEL		CH 54 (5270 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	13.33	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	49.65	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	49.35	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	54.75	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	54.28	40	PASS
TEST CHANNEL		CH 62 (5310 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	13.16	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	38.93	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	36.48	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	54.21	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	54.05	40	PASS

802.11ac (VHT40) Chain 0 W56

Test Condition \ Test Channel		CH 102 (5510 MHz)	CH 118 (5590 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.55	14.70	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	32.50	44.42	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	34.48	44.15	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	53.07	53.57	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	53.47	54.18	40	PASS

Test Condition \ Test Channel		CH 142 (5710 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	13.33	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	44.51	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	44.14	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	53.20	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	52.50	40	PASS

802.11ac (VHT40) Chain 1 W56

Test Condition \ Test Channel		CH 102 (5510 MHz)	CH 118 (5590 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.62	14.72	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	31.95	42.20	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	34.51	42.36	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	53.15	53.12	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	54.24	53.51	40	PASS

Test Condition \ Test Channel		CH 142 (5710 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	13.31	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	44.49	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	43.59	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	53.04	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	52.82	40	PASS

802.11ac (VHT40) Chain 2 W56

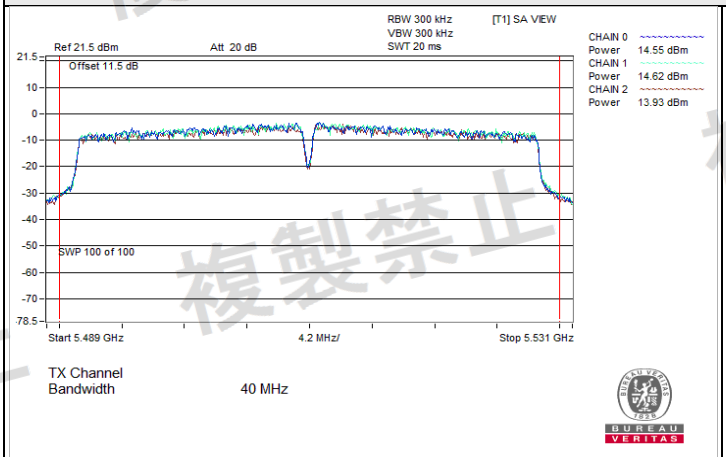
Test Condition \ Test Channel		CH 102 (5510 MHz)	CH 118 (5590 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	13.93	14.60	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	32.05	45.02	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	34.53	43.60	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	54.03	54.14	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	53.61	53.99	40	PASS

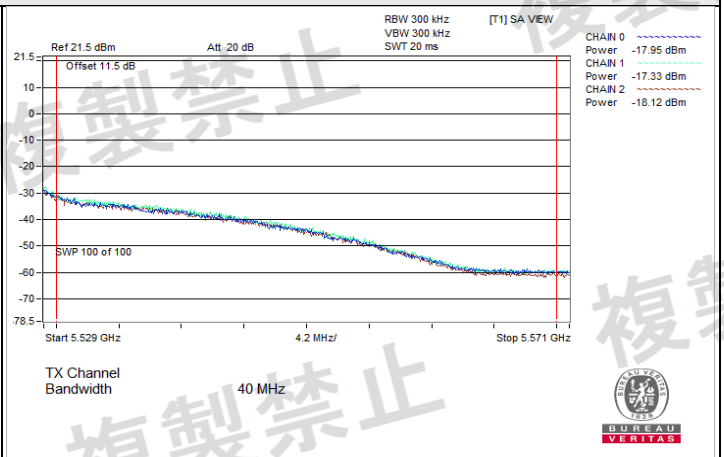
Test Condition \ Test Channel		CH 142 (5710 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	13.77	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	44.67	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	44.52	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	53.09	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	53.90	40	PASS

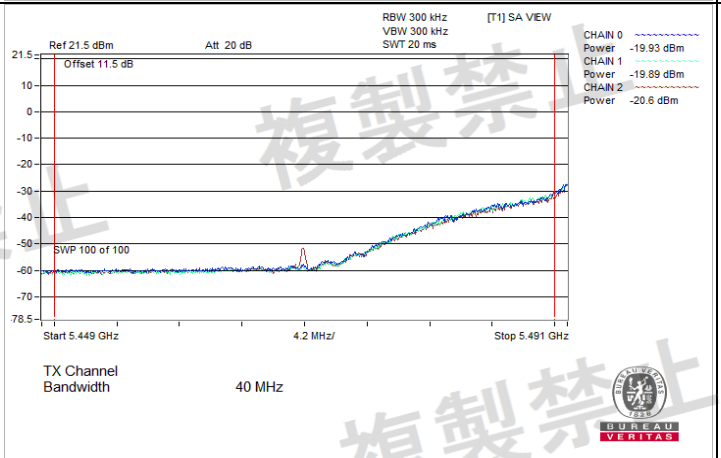
複製禁止

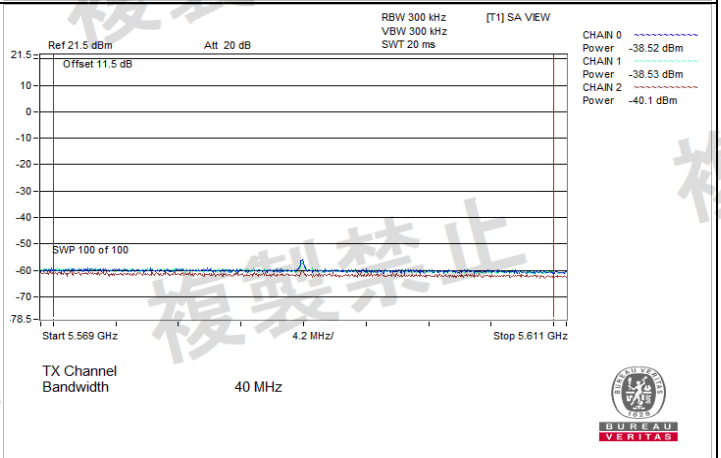
802.11ac (VHT40) Graph W56

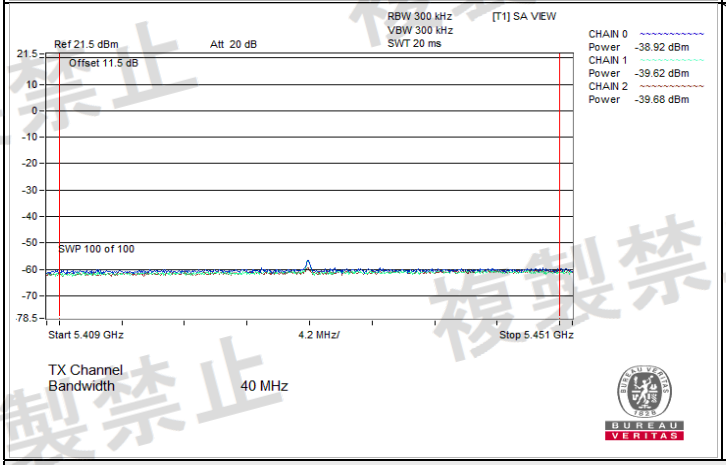
Vnormal





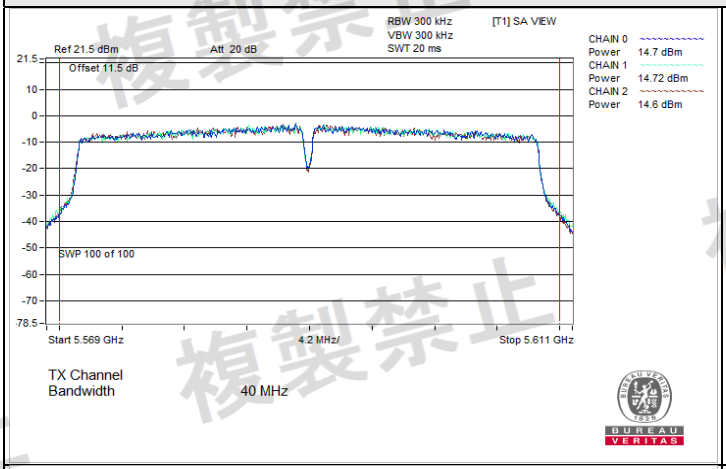


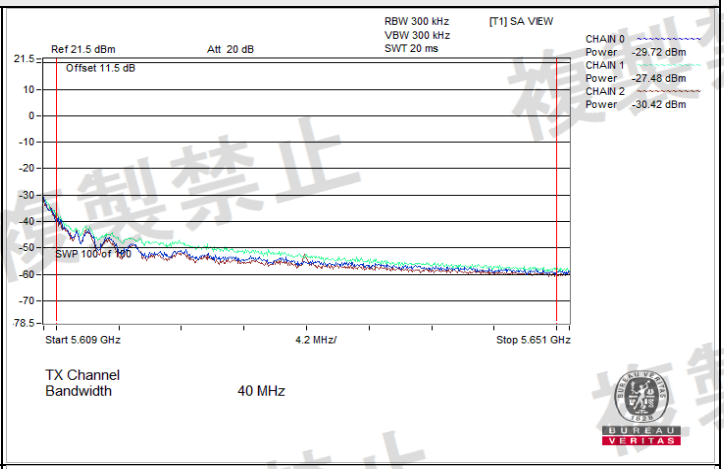


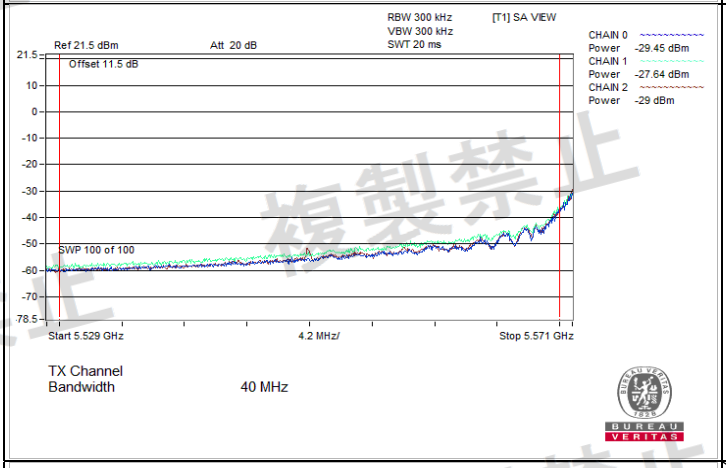


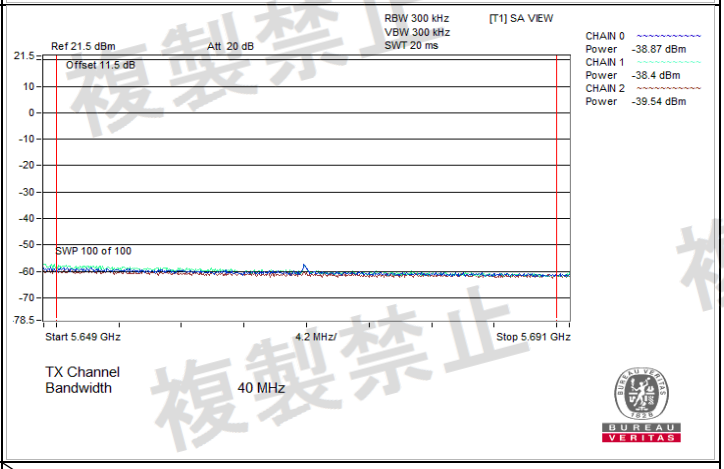
CH 102 (5510 MHz)

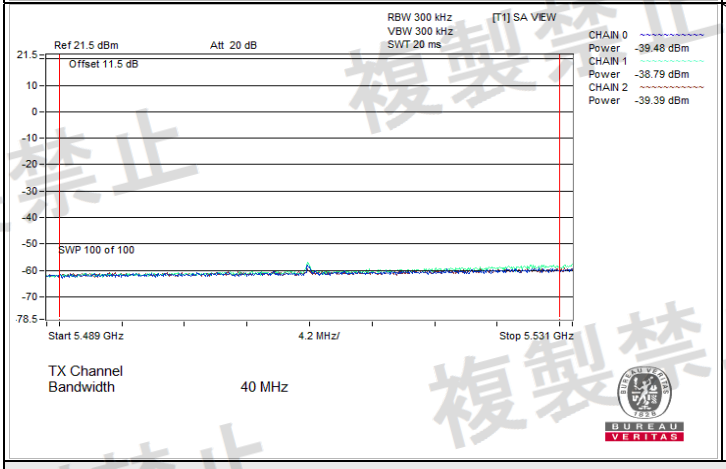
Vnormal





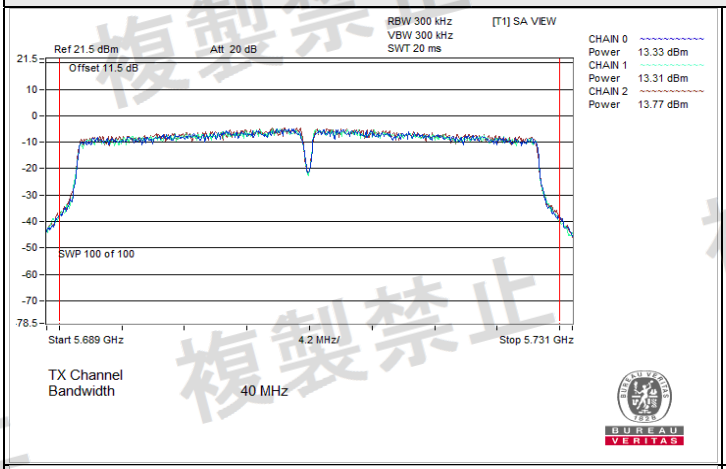


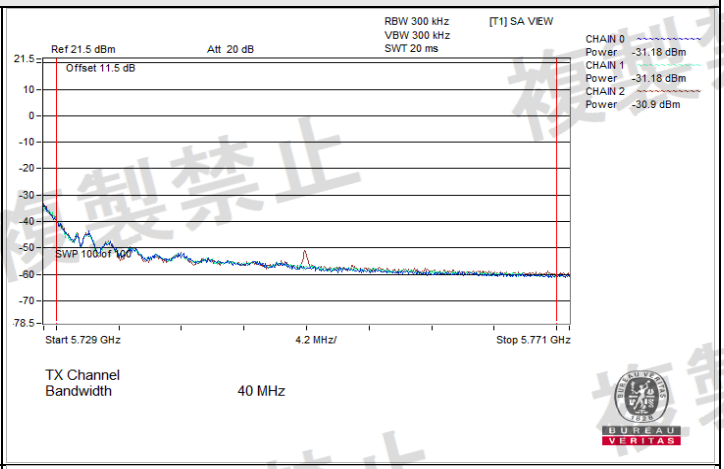


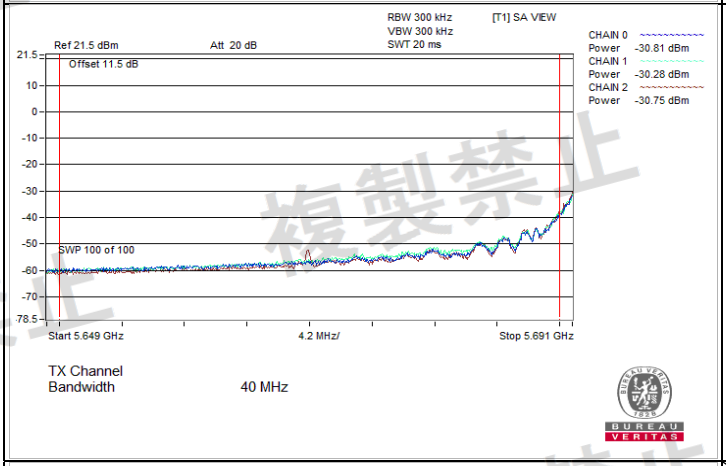


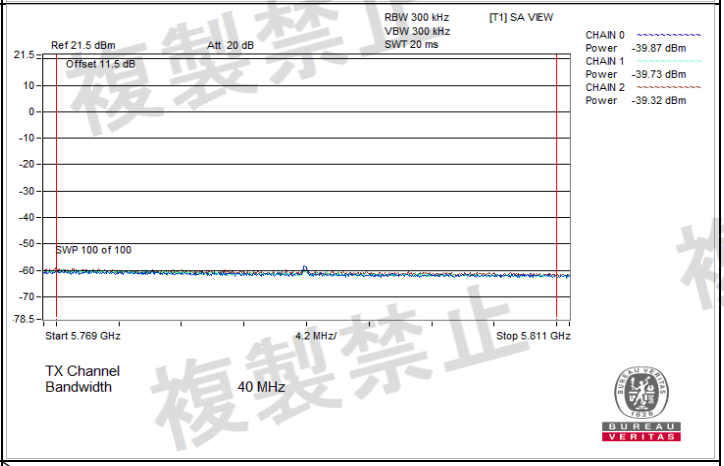
CH 118 (5590 MHz)

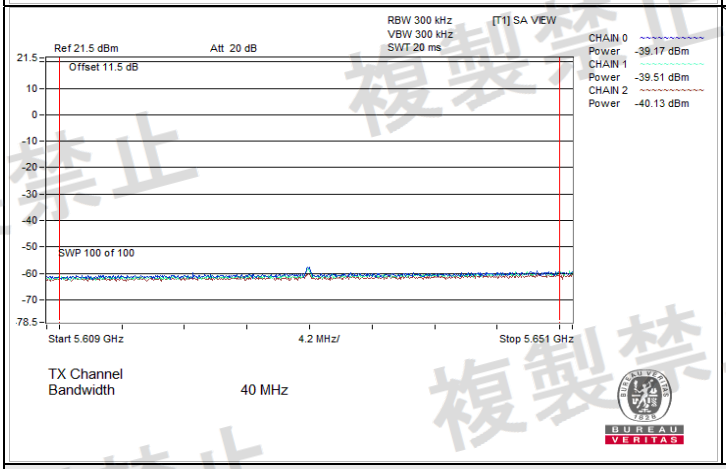
Vnormal











CH 142 (5710 MHz)

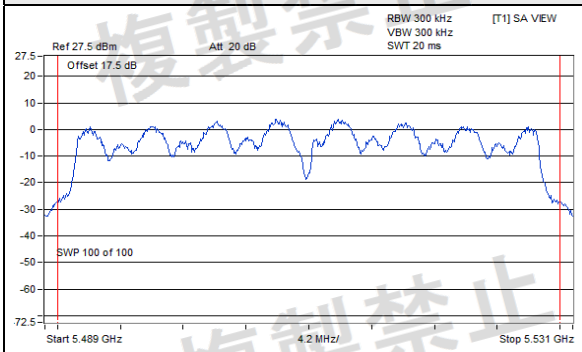
802.11ac (VHT40) Use combiner W56

Test Condition \ Test Channel		CH 102 (5510 MHz)	CH 118 (5590 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	18.98	19.19	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	31.99	42.96	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	34.62	42.41	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	53.04	52.93	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	53.39	53.22	40	PASS

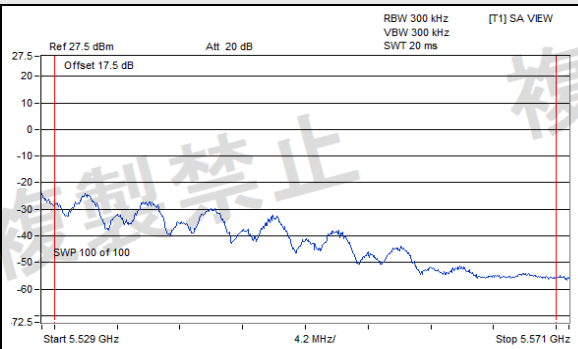
Test Condition \ Test Channel		CH 142 (5710 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	18.17	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	43.59	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	42.76	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	52.66	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	52.57	40	PASS

複製禁止

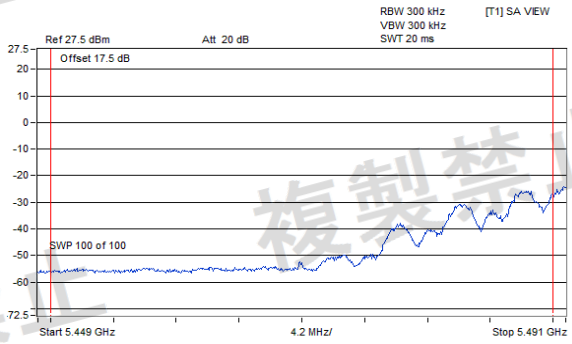
Vnormal



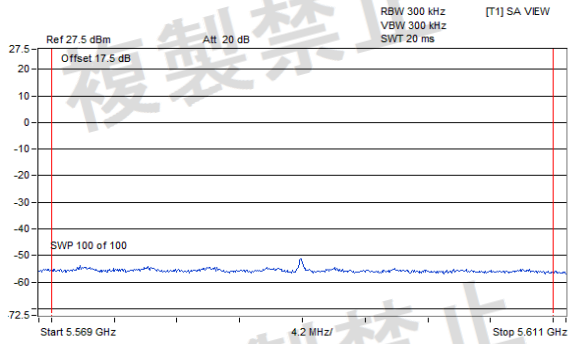
TX Channel Bandwidth 40 MHz Power 18.98 dBm



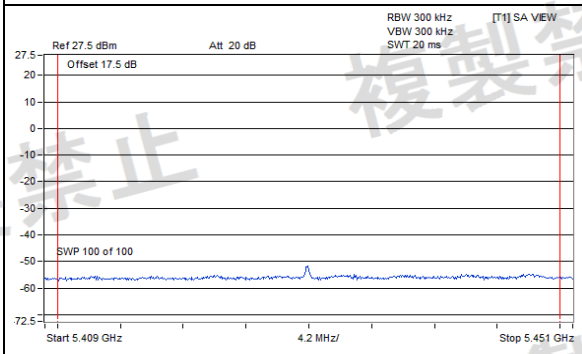
TX Channel Bandwidth 40 MHz Power -13.01 dBm



TX Channel Bandwidth 40 MHz Power -15.64 dBm



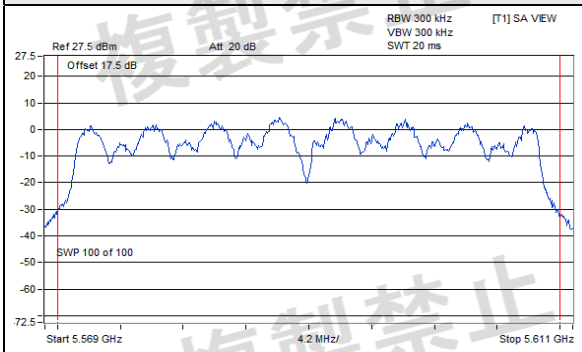
TX Channel Bandwidth 40 MHz Power -34.06 dBm



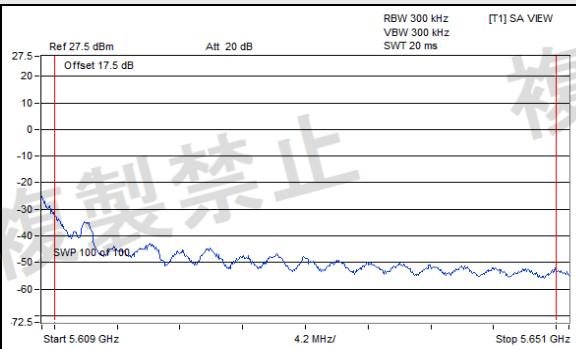
TX Channel Bandwidth 40 MHz Power -34.41 dBm

CH 102 (5510 MHz)

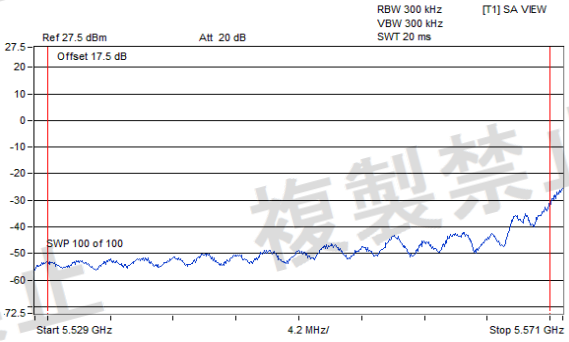
Vnormal



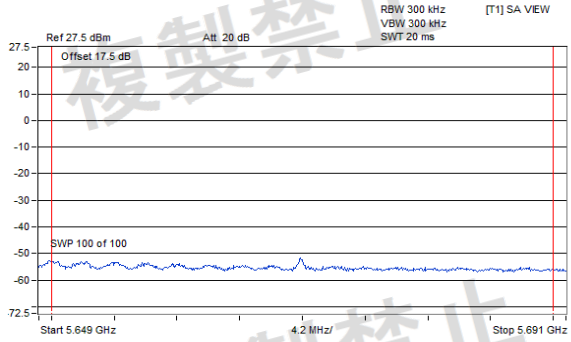
TX Channel Bandwidth 40 MHz Power 19.19 dBm



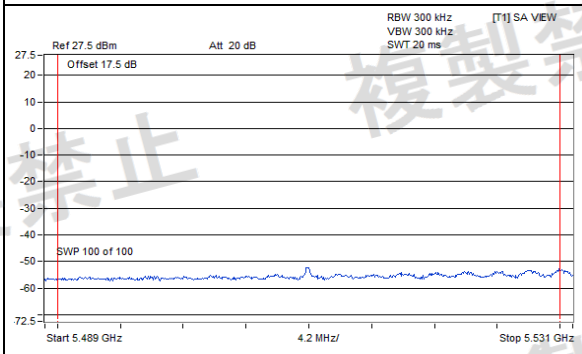
TX Channel Bandwidth 40 MHz Power -23.77 dBm



TX Channel Bandwidth 40 MHz Power -23.22 dBm



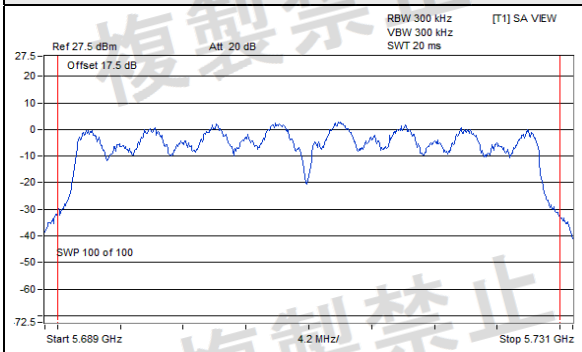
TX Channel Bandwidth 40 MHz Power -33.74 dBm



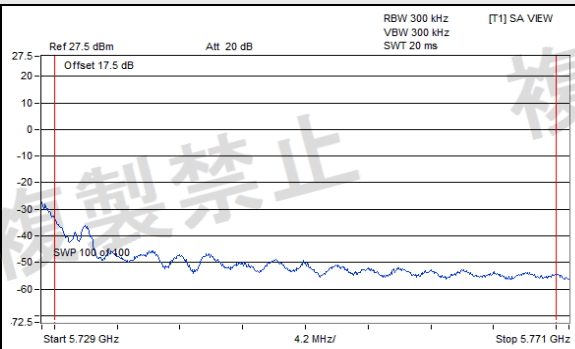
TX Channel Bandwidth 40 MHz Power -34.03 dBm

CH 118 (5590 MHz)

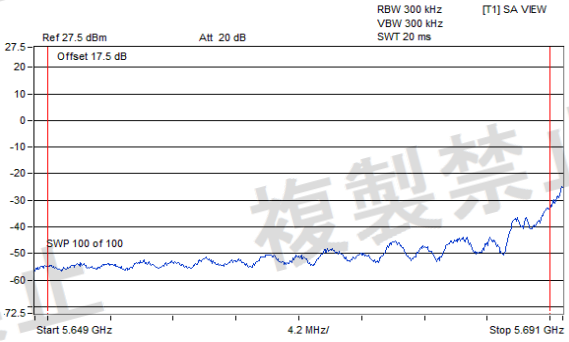
Vnormal



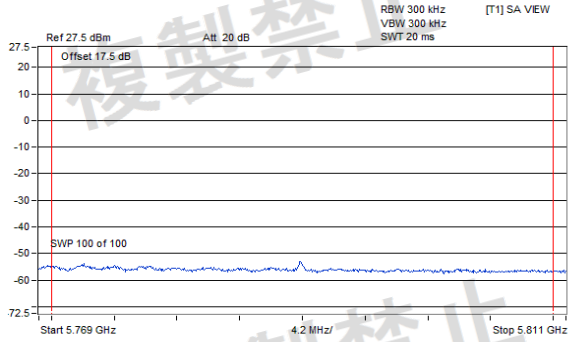
TX Channel Bandwidth 40 MHz Power 18.17 dBm



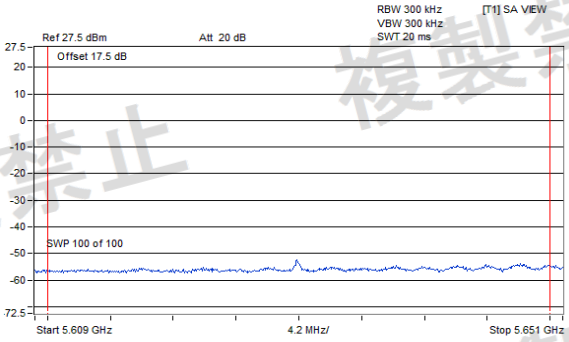
TX Channel Bandwidth 40 MHz Power -25.42 dBm



TX Channel Bandwidth 40 MHz Power -24.59 dBm



TX Channel Bandwidth 40 MHz Power -34.49 dBm



TX Channel Bandwidth 40 MHz Power -34.4 dBm

CH 142 (5710 MHz)

802.11ac (VHT40) Sum of each Chain W56

TEST CHANNEL		CH 102 (5510 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	MIN. LIMIT (dBc)	RESULT
V_{normal}	Mean Power of Carrier (dBm)	19.15	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	36.94	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	39.28	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	58.21	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	58.56	40	PASS
TEST CHANNEL		CH 118 (5590 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	19.44	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	48.81	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	48.20	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	58.40	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	58.67	40	PASS
TEST CHANNEL		CH 142 (5710 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	18.25	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	49.33	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	48.87	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	57.88	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	57.89	40	PASS

802.11ac (VHT80) Chain 0 W52&53

Test Condition \ Test Channel		CH 42 (5210 MHz)	CH 58 (5290 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	8.50	8.47	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	32.03	36.22	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	36.32	32.16	25	PASS

802.11ac (VHT80) Chain 1 W52&53

Test Condition \ Test Channel		CH 42 (5210 MHz)	CH 58 (5290 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	8.21	8.00	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	31.47	36.24	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	36.25	32.06	25	PASS

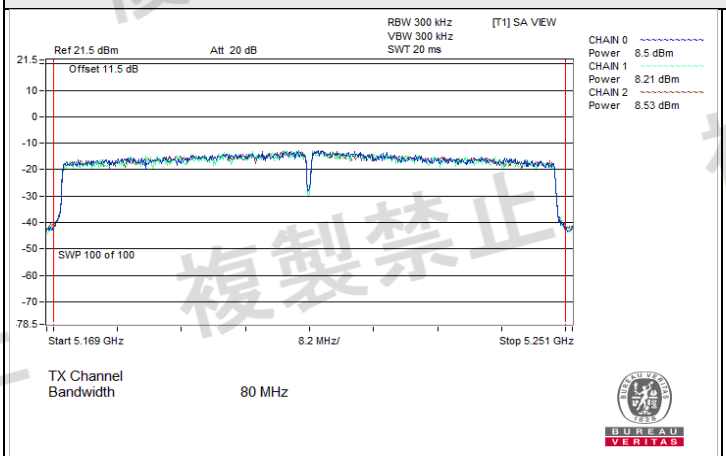
802.11ac (VHT80) Chain 2 W52&53

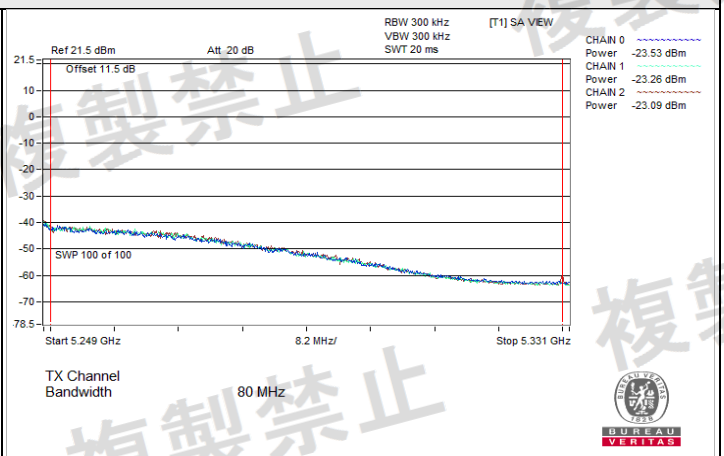
Test Condition \ Test Channel		CH 42 (5210 MHz)	CH 58 (5290 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	8.53	8.58	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	31.62	36.67	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	36.40	31.74	25	PASS

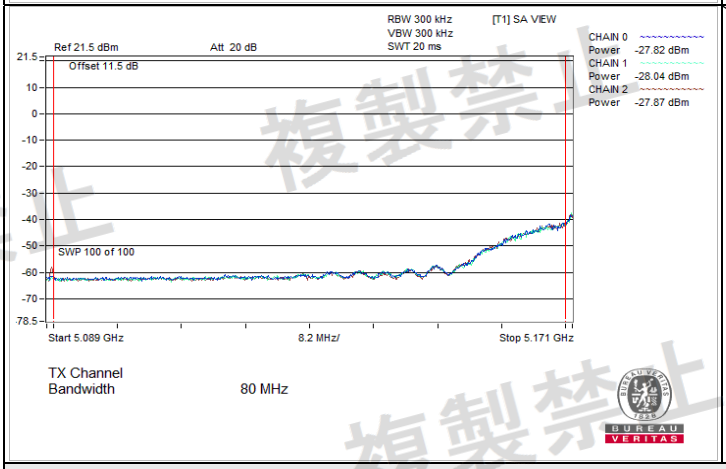
複製禁止

802.11ac (VHT80) Graph W52&53

Vnormal

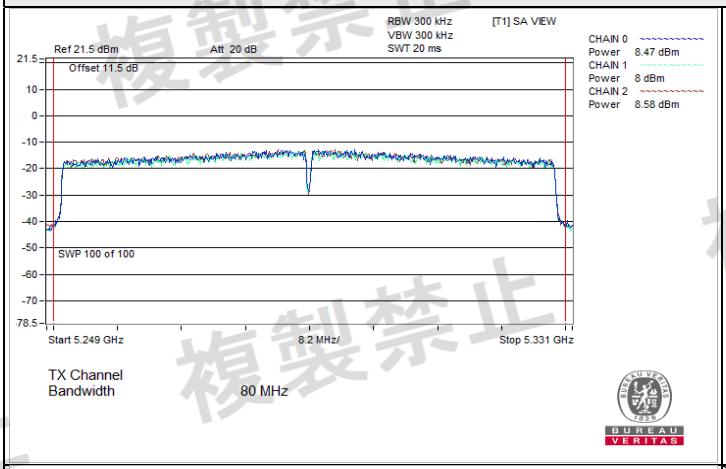


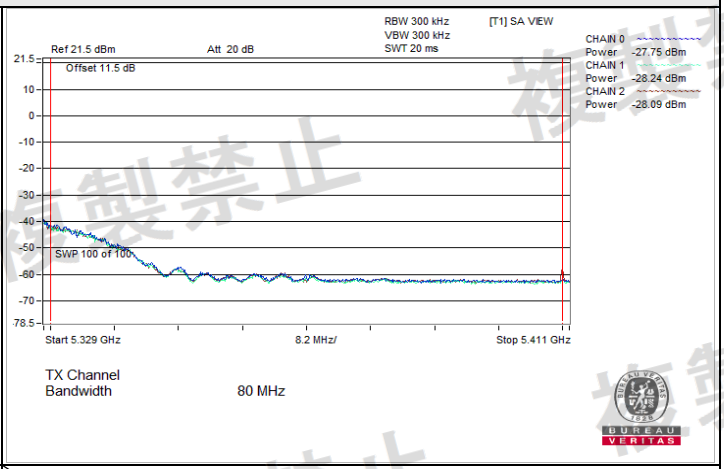


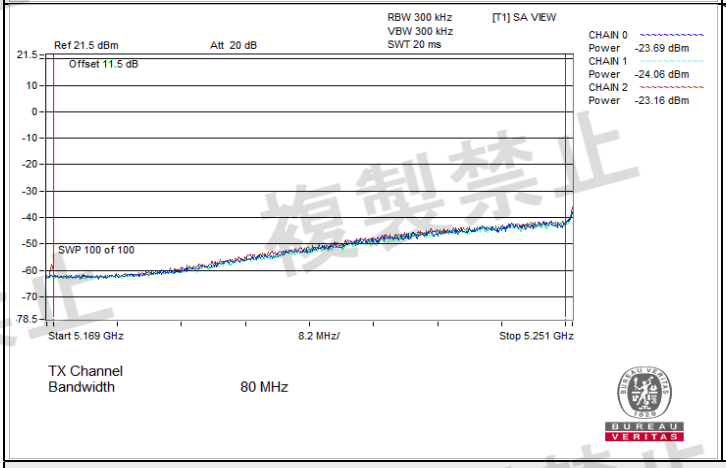


CH 42 (5210 MHz)

Vnormal





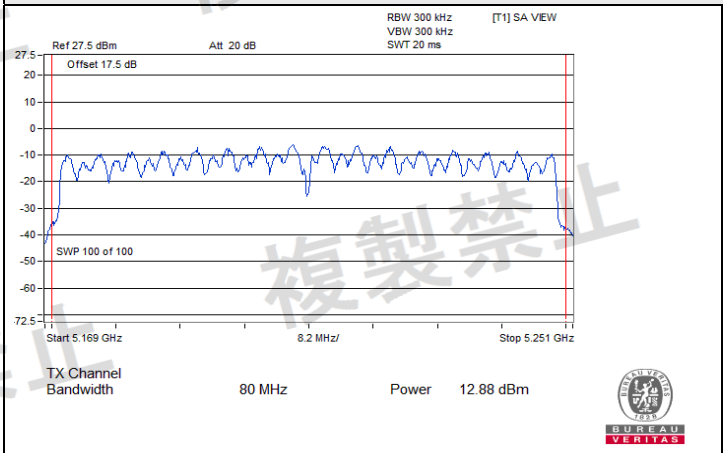


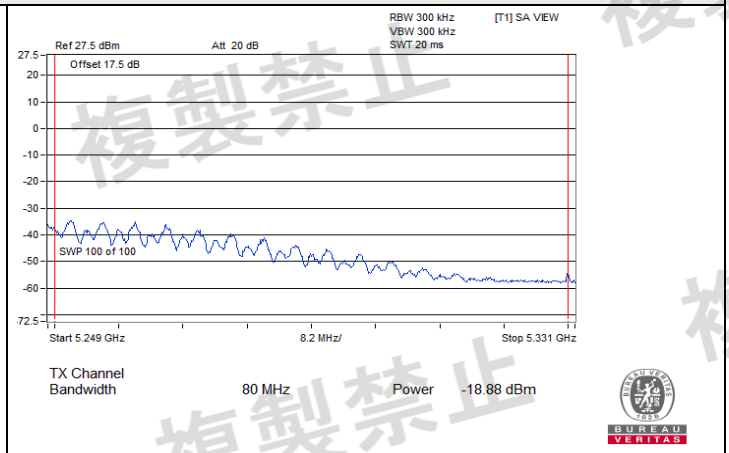
CH 58 (5290 MHz)

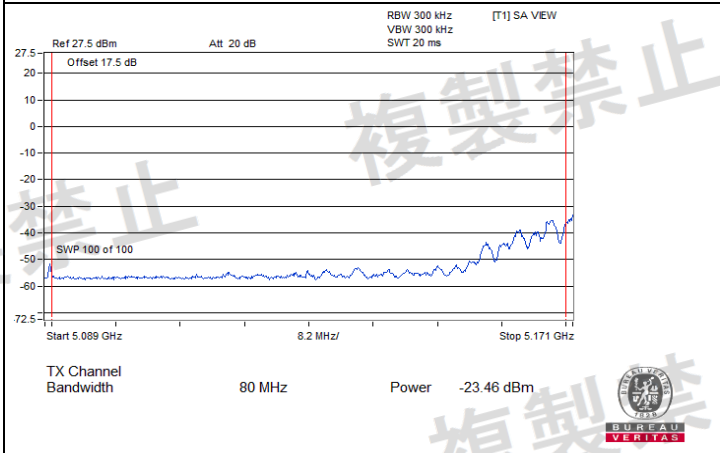
802.11ac (VHT80) Use combiner W52&53

Test Condition \ Test Channel		CH 42 (5210 MHz)	CH 58 (5290 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	12.88	12.64	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	31.76	36.47	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	36.34	32.07	25	PASS

V_{normal}

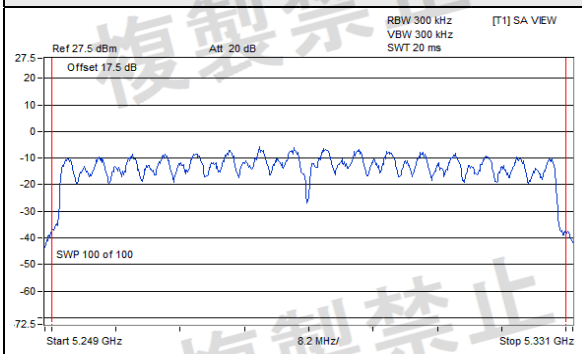




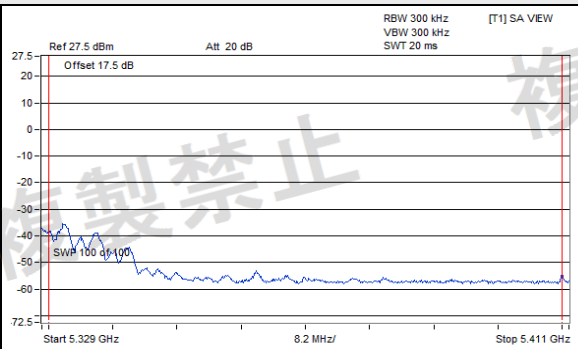


CH 42 (5210 MHz)

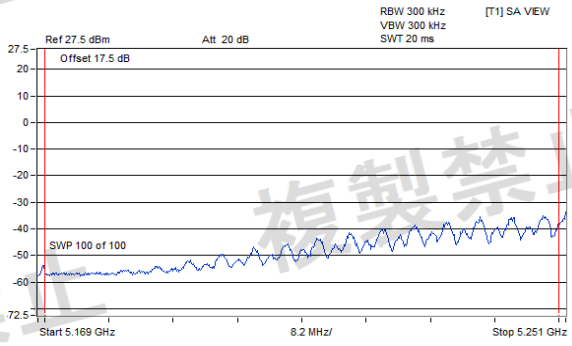
Vnormal



TX Channel Bandwidth 80 MHz Power 12.64 dBm



TX Channel Bandwidth 80 MHz Power -23.83 dBm



TX Channel Bandwidth 80 MHz Power -19.43 dBm

CH 58 (5290 MHz)

802.11ac (VHT80) Sum of each Chain W52&53

TEST CHANNEL		CH 42 (5210 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	MIN. LIMIT (dBc)	RESULT
V_{normal}	Mean Power of Carrier (dBm)	13.19	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	36.48	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	41.09	25	PASS
TEST CHANNEL		CH 58 (5290 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	13.13	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	41.15	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	36.76	25	PASS

802.11ac (VHT80) Chain 0 W56

Test Condition \ Test Channel		CH 106 (5530 MHz)	CH 122 (5610 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.15	15.14	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	32.69	44.36	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	36.53	44.67	25	PASS

Test Condition \ Test Channel		CH 138 (5690 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.85	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	44.70	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	45.13	25	PASS

802.11ac (VHT80) Chain 1 W56

Test Condition \ Test Channel		CH 106 (5530 MHz)	CH 122 (5610 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.66	15.78	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	31.76	42.93	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	36.83	44.10	25	PASS

Test Condition \ Test Channel		CH 138 (5690 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.24	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	44.94	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	44.20	25	PASS

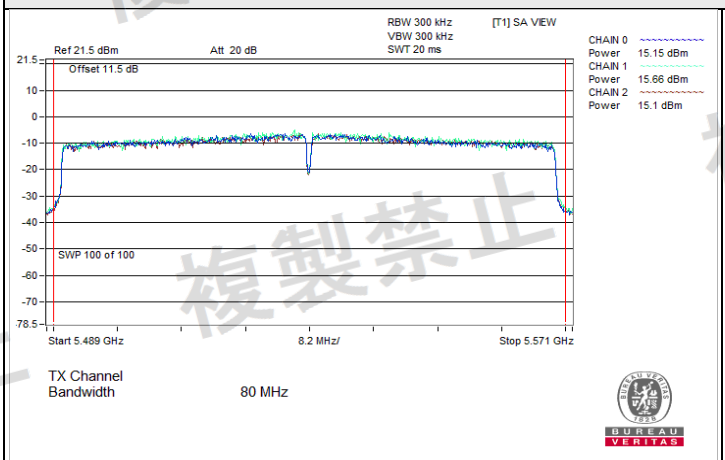
802.11ac (VHT80) Chain 2 W56

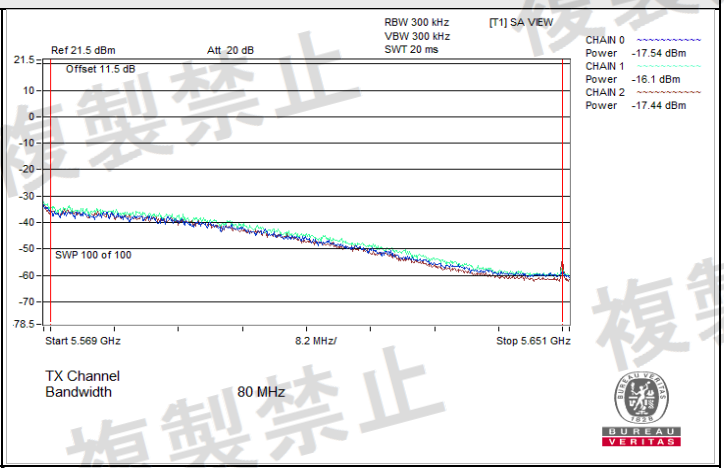
Test Condition \ Test Channel		CH 106 (5530 MHz)	CH 122 (5610 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.10	15.47	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	32.54	44.33	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	37.11	43.06	25	PASS

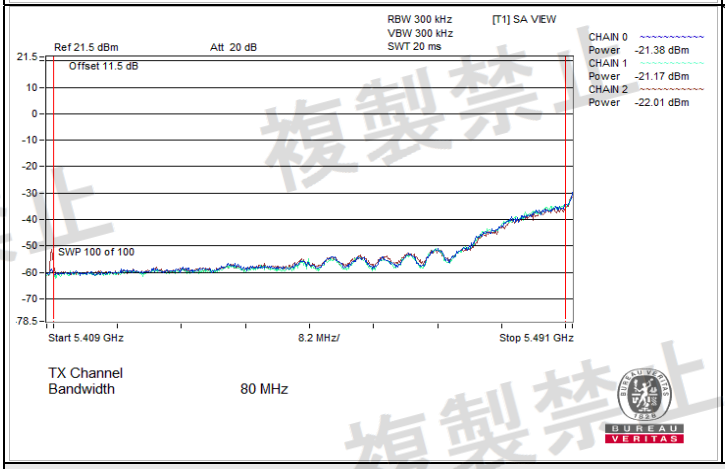
Test Condition \ Test Channel		CH 138 (5690 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.99	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	44.72	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	44.72	25	PASS

802.11ac (VHT80) Graph W56

Vnormal

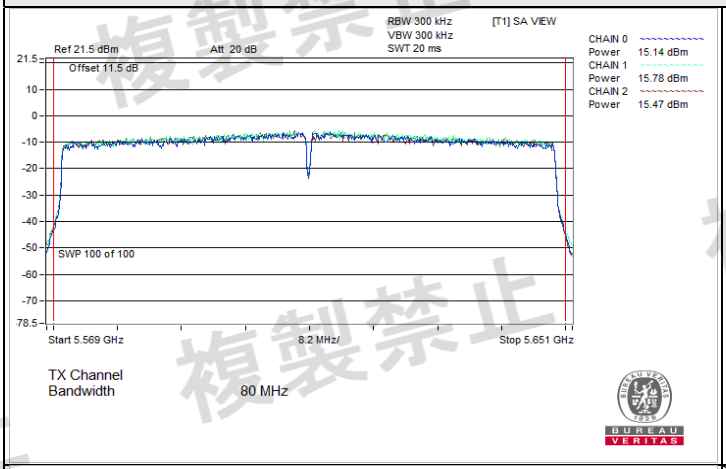


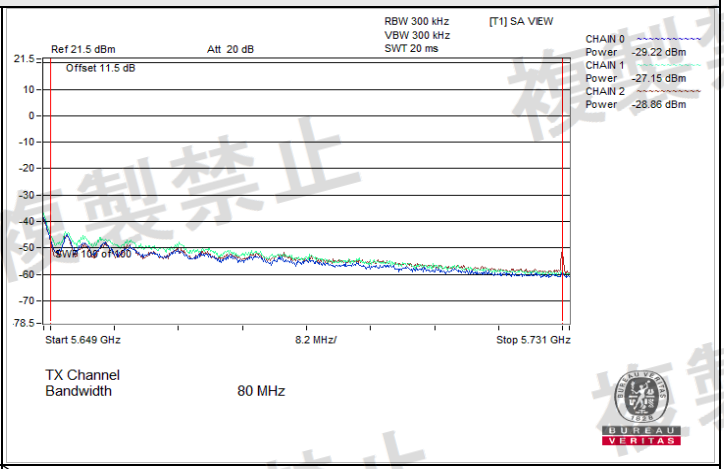


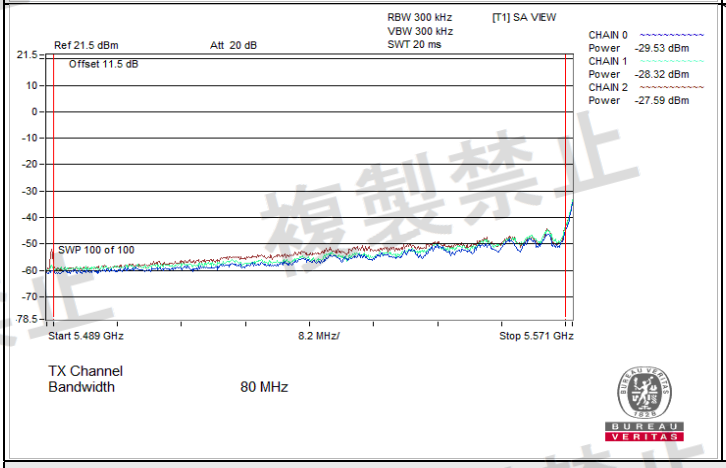


CH 106 (5530 MHz)

Vnormal

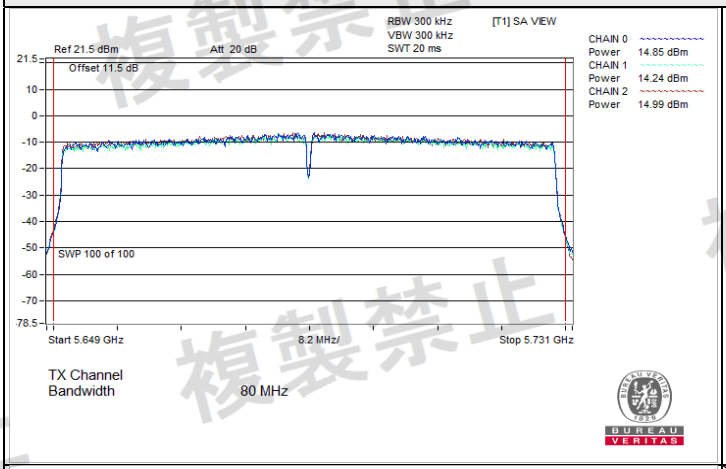


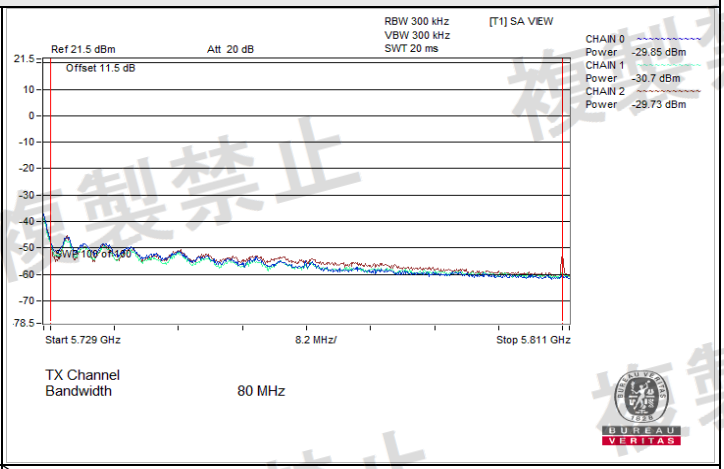


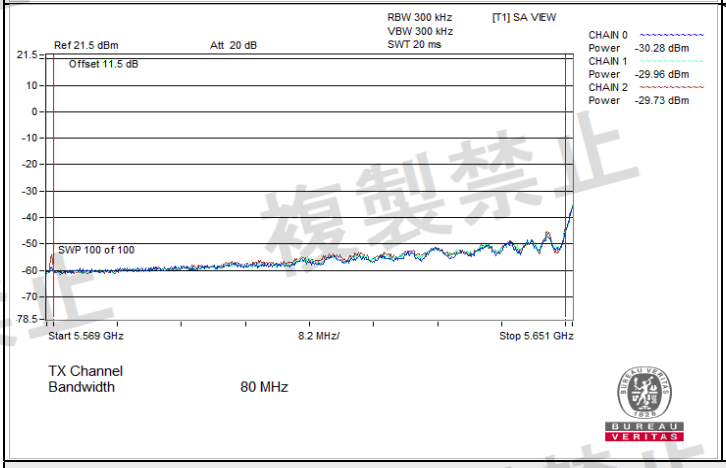


CH 122 (5610 MHz)

Vnormal







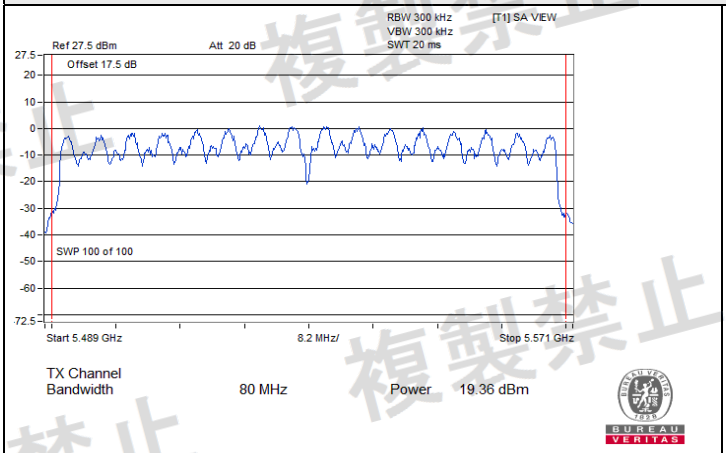
CH 138 (5690 MHz)

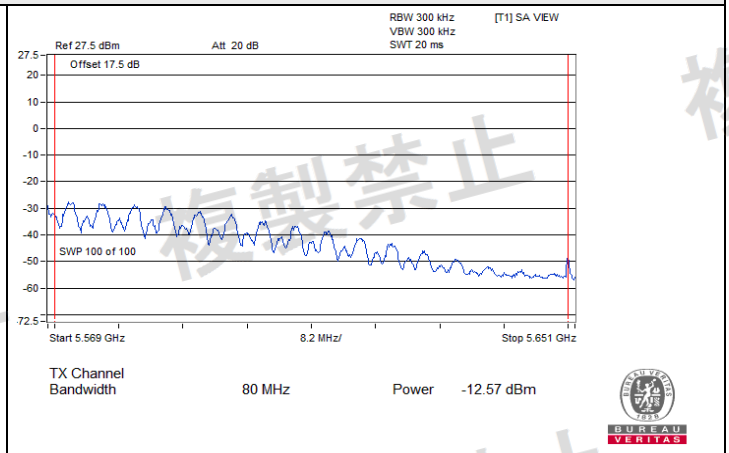
802.11ac (VHT80) Use combiner W56

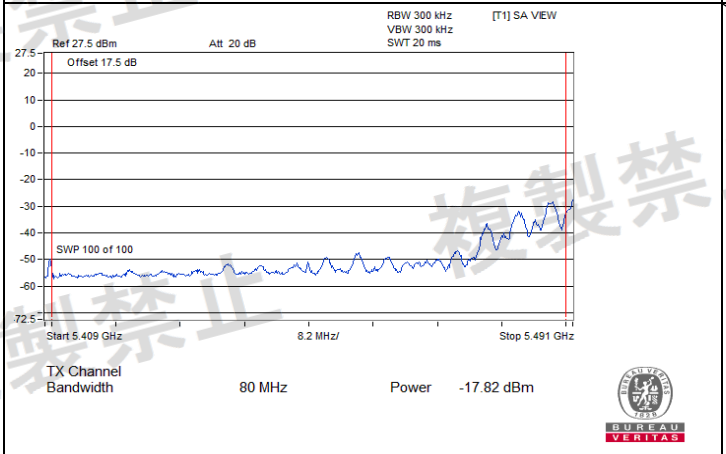
Test Condition \ Test Channel		CH 106 (5530 MHz)	CH 122 (5610 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	19.36	20.01	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	31.93	44.24	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	37.18	43.59	25	PASS

Test Condition \ Test Channel		CH 138 (5690 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	19.36	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	44.65	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	43.73	25	PASS

V_{normal}

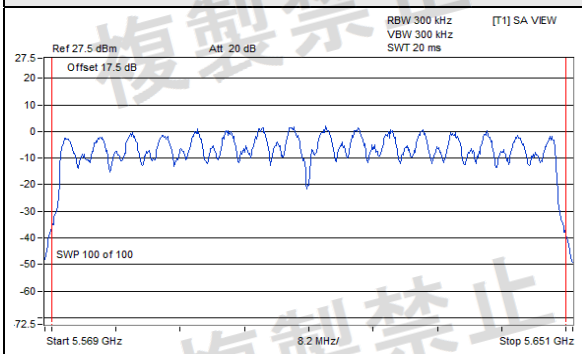




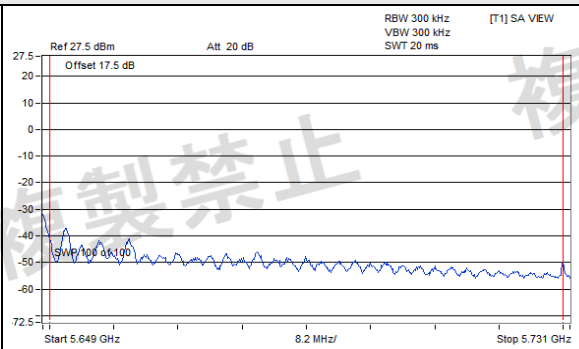


CH 106 (5530 MHz)

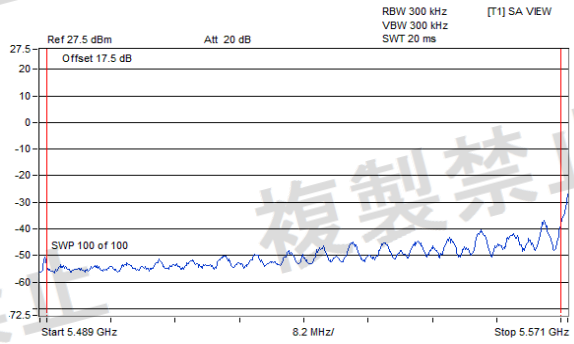
Vnormal



TX Channel Bandwidth 80 MHz Power 20.01 dBm



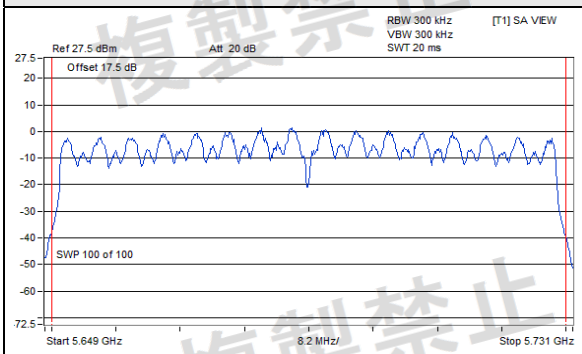
TX Channel Bandwidth 80 MHz Power -24.23 dBm



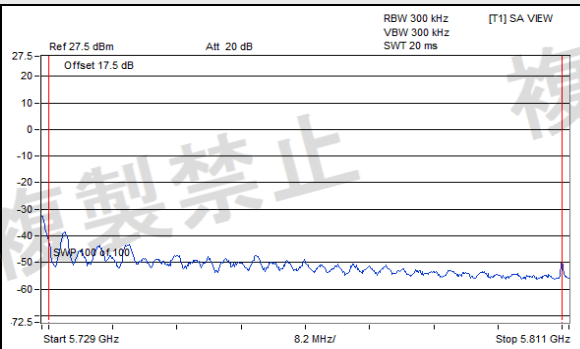
TX Channel Bandwidth 80 MHz Power -23.58 dBm

CH 122 (5610 MHz)

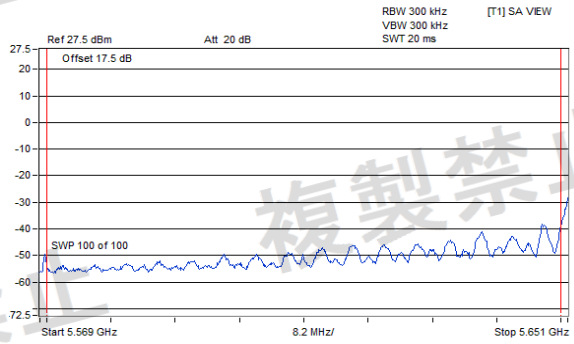
Vnormal



TX Channel Bandwidth 80 MHz Power 19.36 dBm



TX Channel Bandwidth 80 MHz Power -25.29 dBm



TX Channel Bandwidth 80 MHz Power -24.37 dBm

CH 138 (5690 MHz)

802.11ac (VHT80) Sum of each Chain W56

TEST CHANNEL		CH 106 (5530 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	MIN. LIMIT (dBc)	RESULT
V_{normal}	Mean Power of Carrier (dBm)	20.08	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	37.12	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	41.60	25	PASS
TEST CHANNEL		**CH 122 (5610 MHz)**		
V_{normal}	Mean Power of Carrier (dBm)	20.24	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	48.69	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	48.76	25	PASS
TEST CHANNEL		**CH 138 (5690 MHz)**		
V_{normal}	Mean Power of Carrier (dBm)	19.48	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	49.56	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	49.47	25	PASS

802.11ax (HE20) Chain 0 W52&53

Test Condition \ Test Channel		CH 36 (5180 MHz)	CH 48 (5240 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.49	9.09	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	30.98	45.54	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	31.75	41.26	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.85	52.72	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	52.86	53.02	40	PASS
Test Condition \ Test Channel		CH 52 (5260 MHz)	CH 64 (5320 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.83	9.19	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	45.05	32.05	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	40.74	30.38	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.79	53.17	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	53.38	52.90	40	PASS

802.11ax (HE20) Chain 1 W52&53

Test Condition \ Test Channel		CH 36 (5180 MHz)	CH 48 (5240 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.74	9.59	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	32.39	46.04	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	33.98	41.12	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.89	53.27	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	52.85	53.21	40	PASS
Test Condition \ Test Channel		CH 52 (5260 MHz)	CH 64 (5320 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.74	9.15	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	45.58	32.34	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	40.88	30.17	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	53.48	53.09	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	53.56	52.56	40	PASS

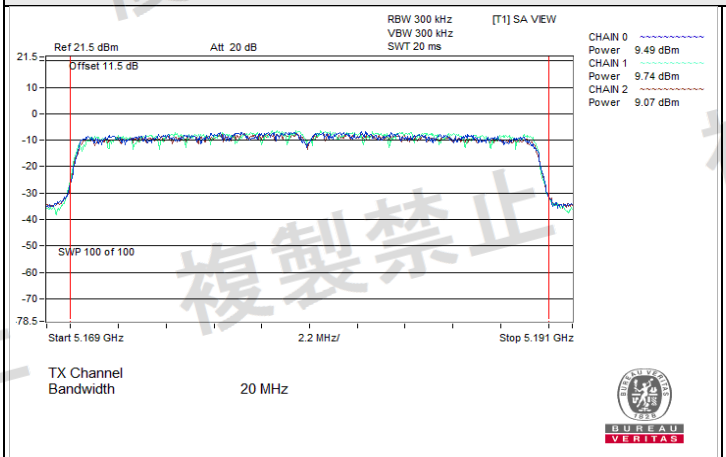
802.11ax (HE20) Chain 2 W52&53

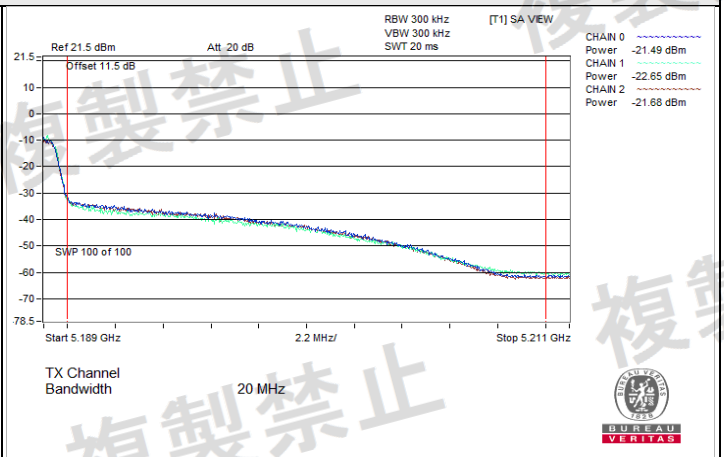
Test Condition \ Test Channel		CH 36 (5180 MHz)	CH 48 (5240 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.07	9.16	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	30.75	45.90	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	31.43	41.29	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.76	53.23	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	52.41	52.69	40	PASS
Test Condition \ Test Channel		CH 52 (5260 MHz)	CH 64 (5320 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	9.39	8.90	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	45.67	32.30	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	41.11	29.94	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	53.51	52.65	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	53.27	52.25	40	PASS

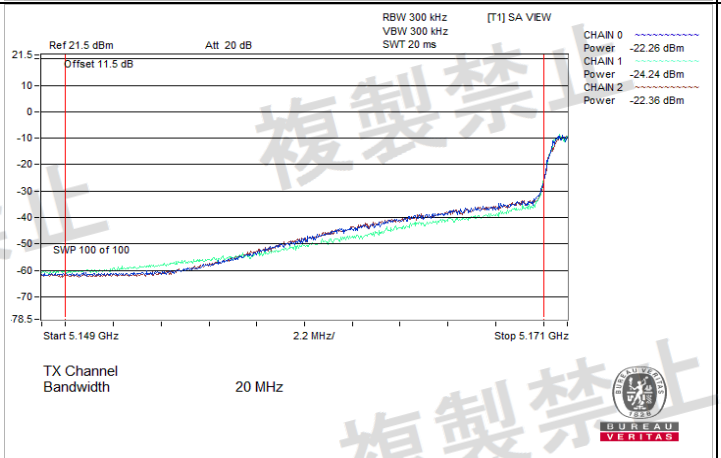
複製禁止

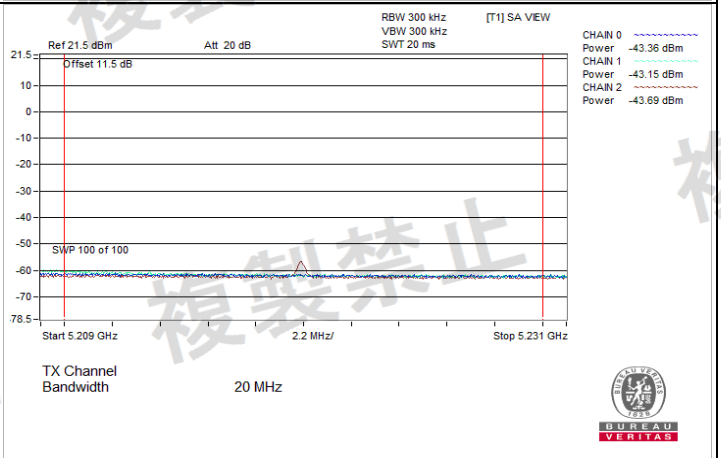
802.11ax (HE20) Graph W52&53

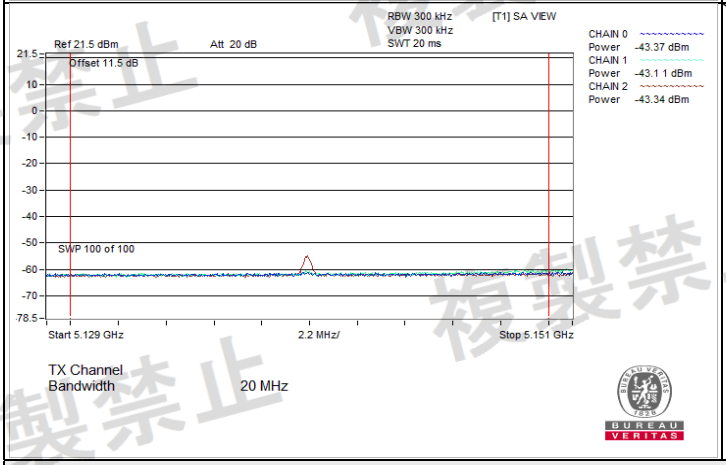
Vnormal





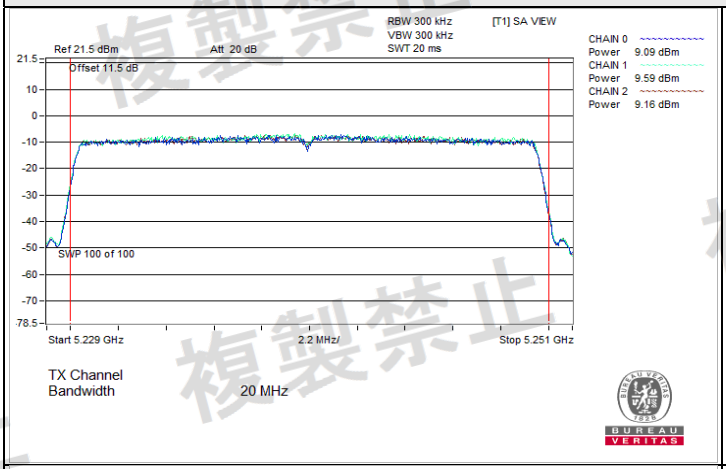


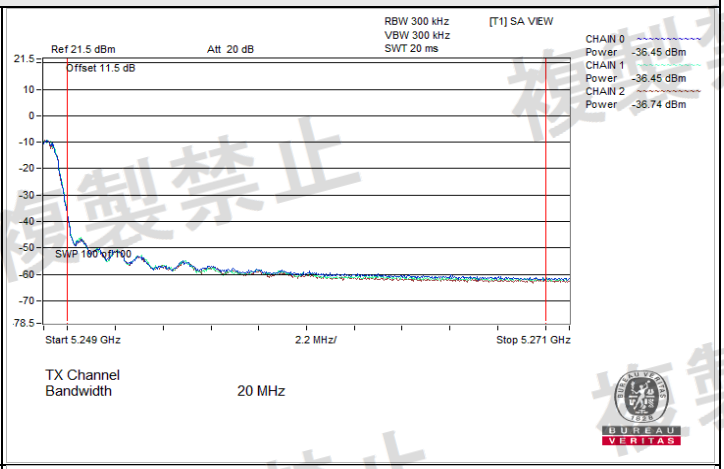


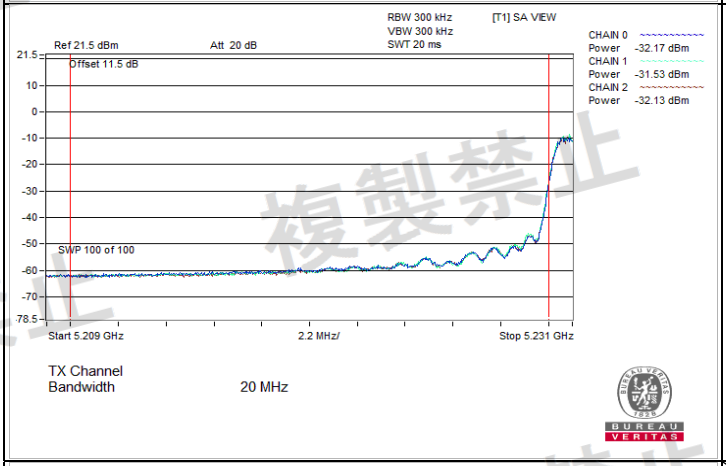


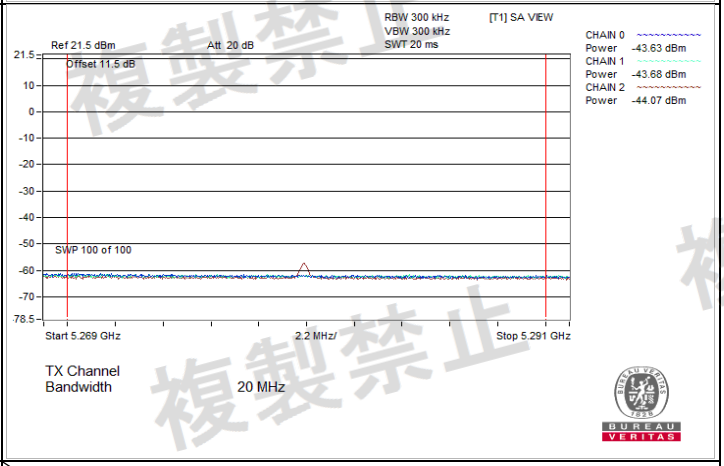
CH 36 (5180 MHz)

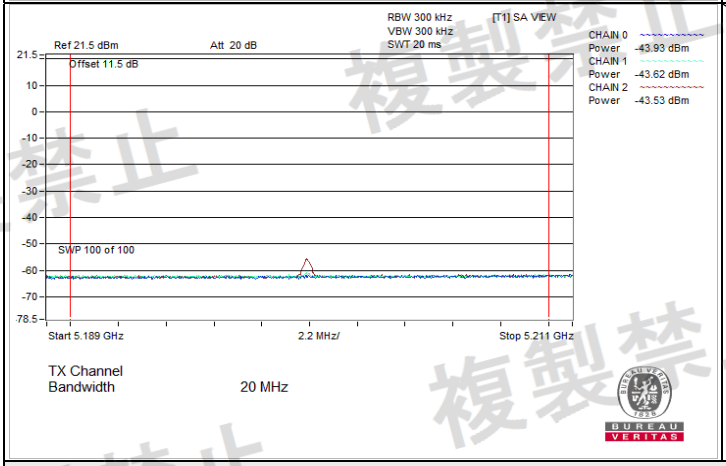
Vnormal





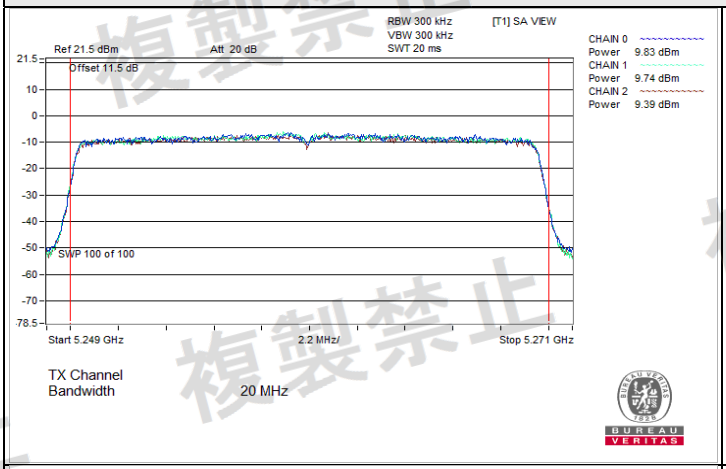


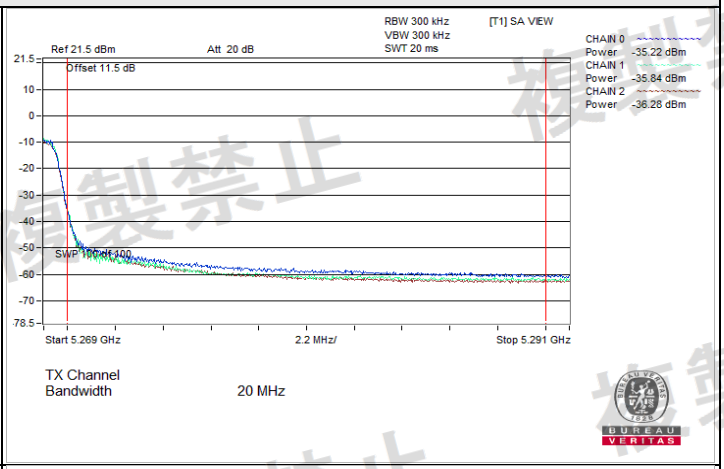


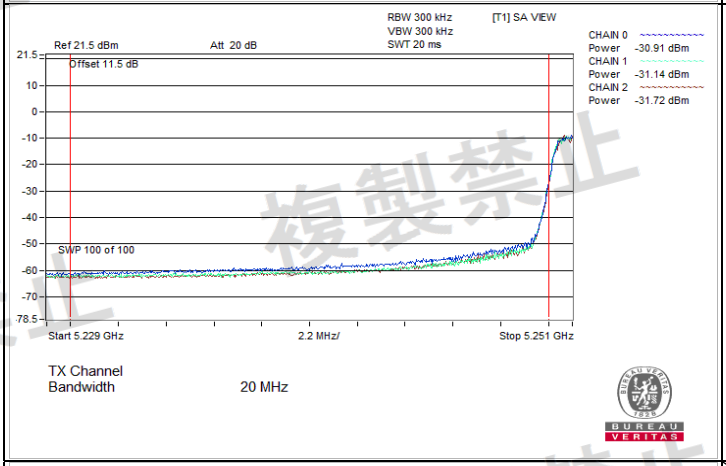


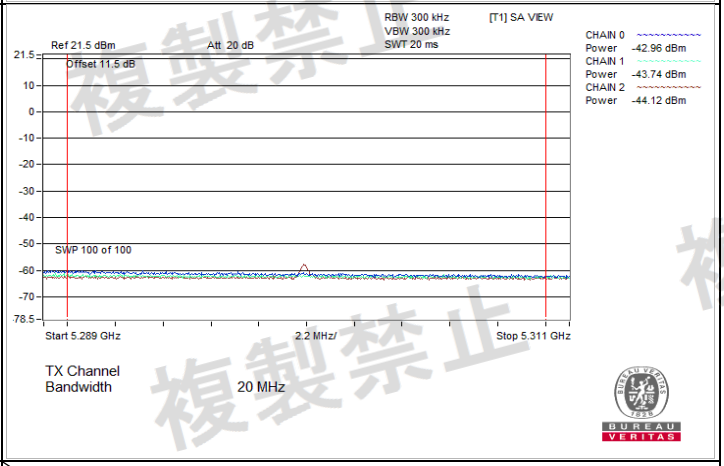
CH 48 (5240 MHz)

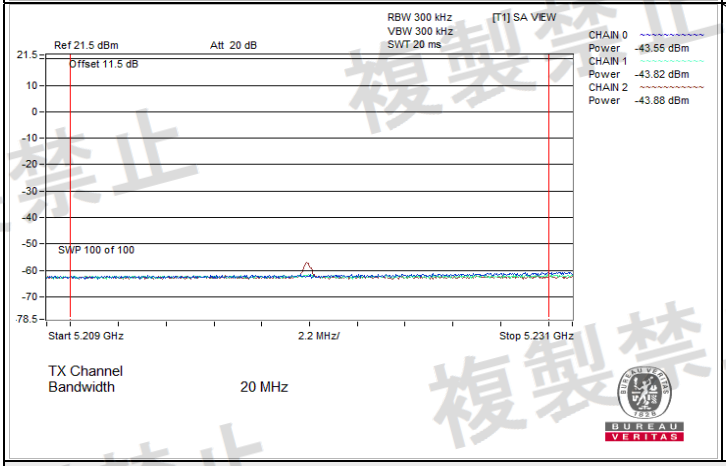
Vnormal





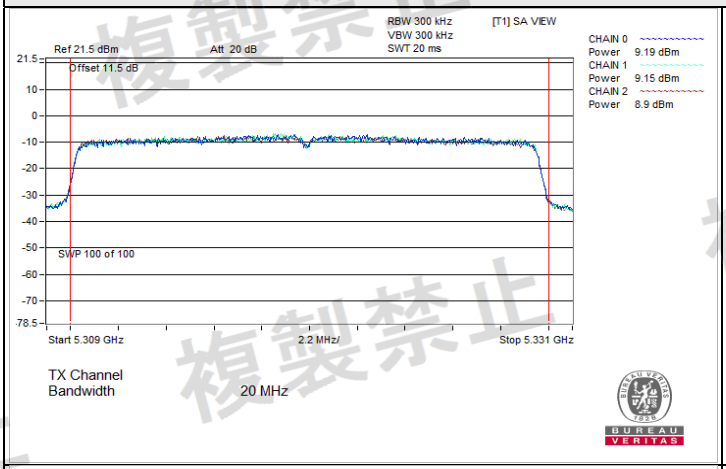




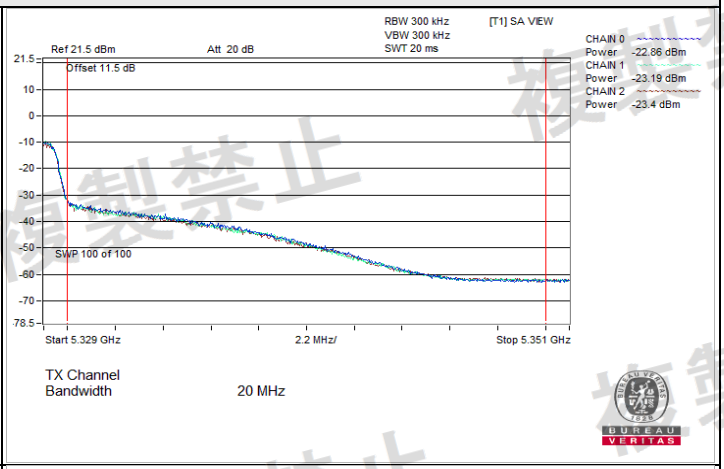


CH 52 (5260 MHz)

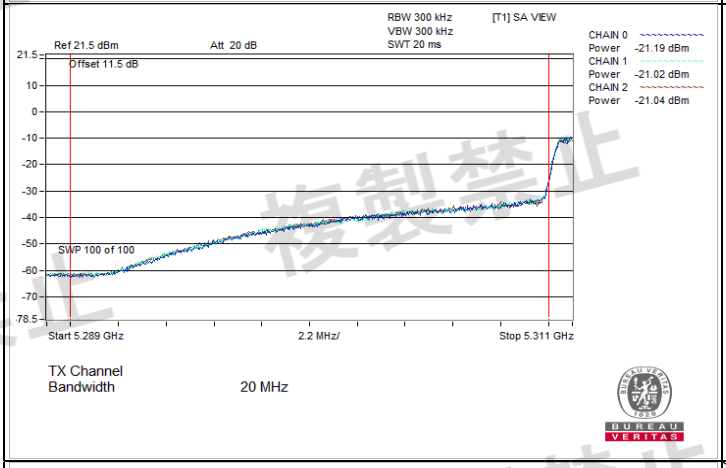
Vnormal



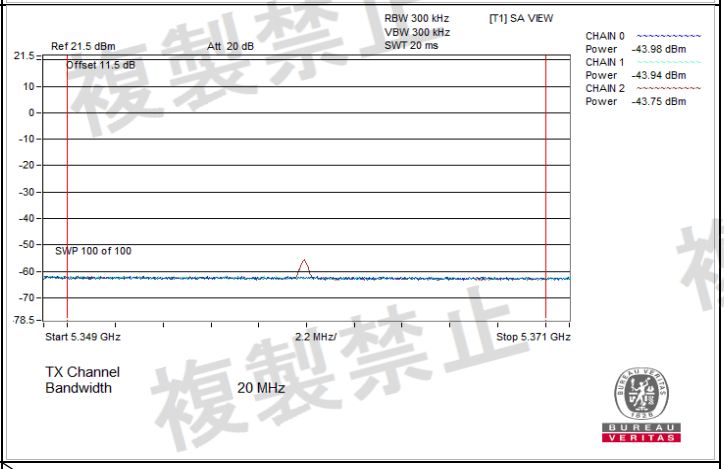
TX Channel Bandwidth 20 MHz



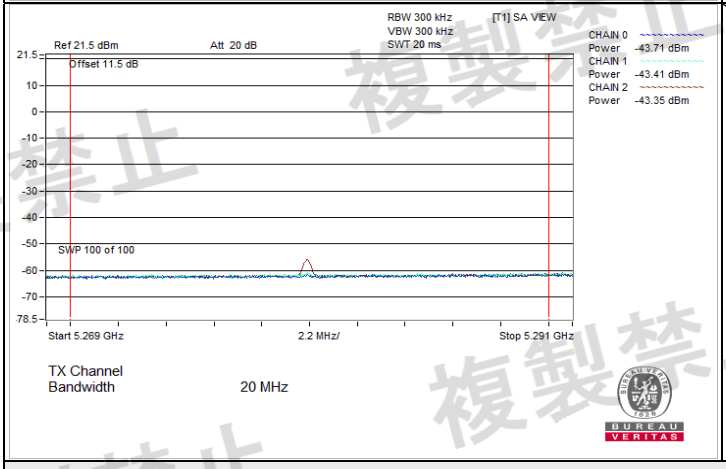
TX Channel Bandwidth 20 MHz



TX Channel Bandwidth 20 MHz



TX Channel Bandwidth 20 MHz



TX Channel Bandwidth 20 MHz

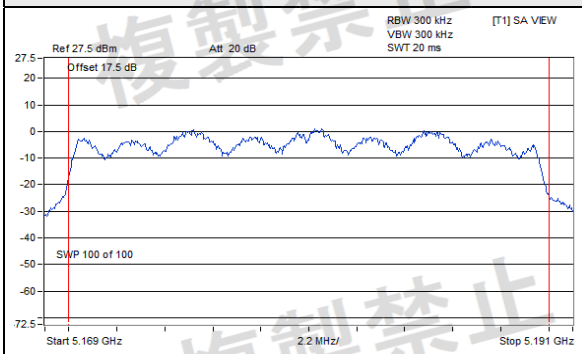
CH 64 (5320 MHz)

802.11ax (HE20) Use combiner W52&53

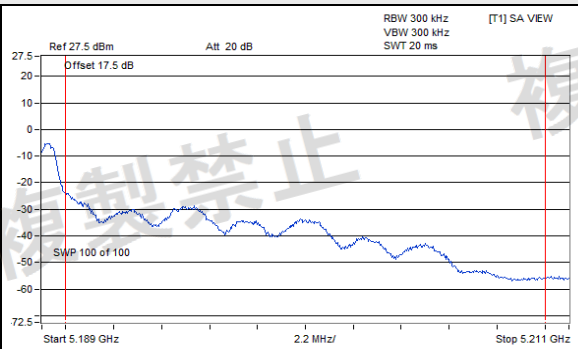
Test Condition \ Test Channel		CH 36 (5180 MHz)	CH 48 (5240 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.45	14.71	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	30.34	44.81	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	31.31	39.76	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.28	52.63	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	52.00	52.39	40	PASS
Test Condition \ Test Channel		CH 52 (5260 MHz)	CH 64 (5320 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.48	13.94	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	44.62	31.74	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	38.57	29.57	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.30	52.08	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	52.21	51.48	40	PASS

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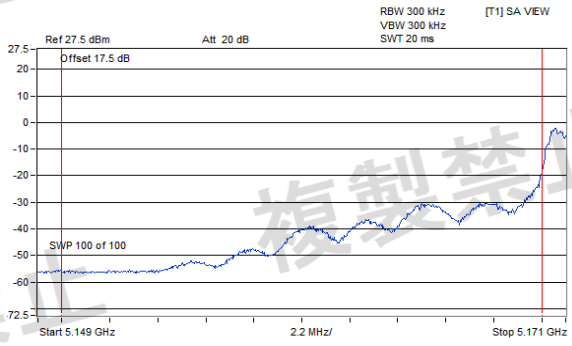
Vnormal



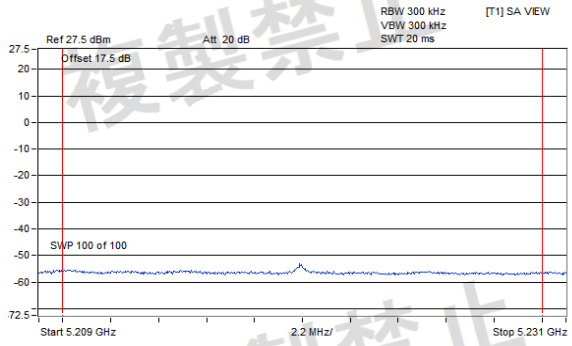
TX Channel Bandwidth 20 MHz Power 14.45 dBm



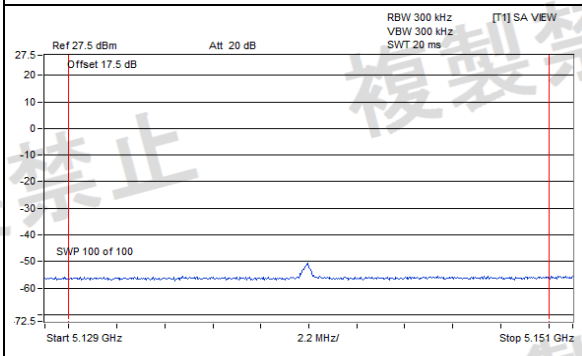
TX Channel Bandwidth 20 MHz Power -15.89 dBm



TX Channel Bandwidth 20 MHz Power -16.86 dBm



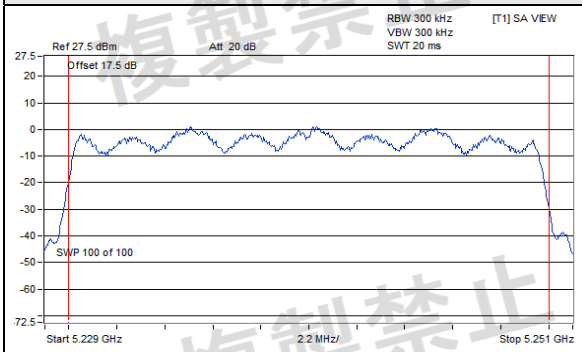
TX Channel Bandwidth 20 MHz Power -37.83 dBm



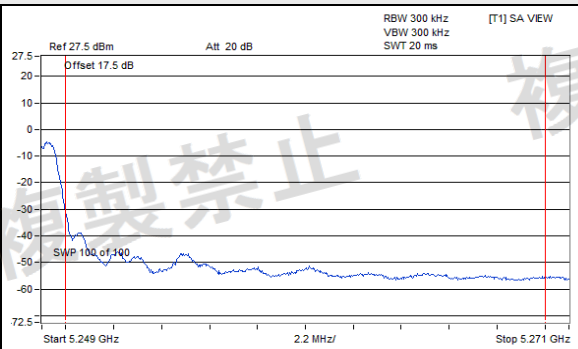
TX Channel Bandwidth 20 MHz Power -37.55 dBm

CH 36 (5180 MHz)

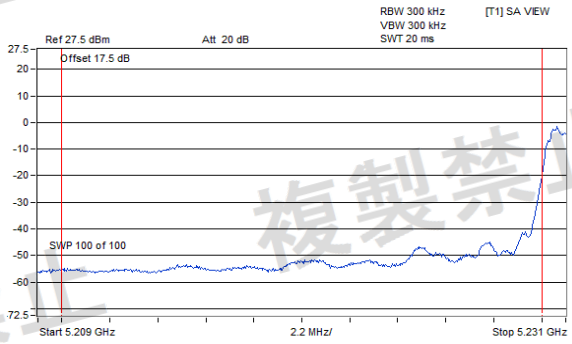
Vnormal



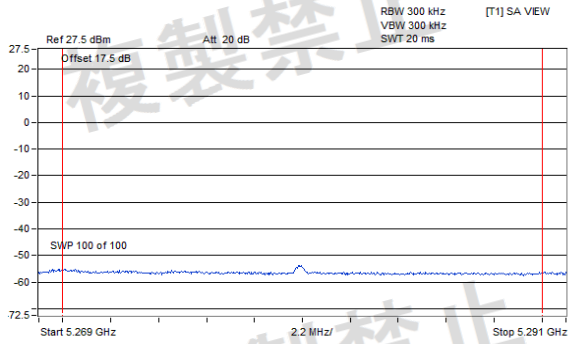
TX Channel Bandwidth 20 MHz Power 14.71 dBm



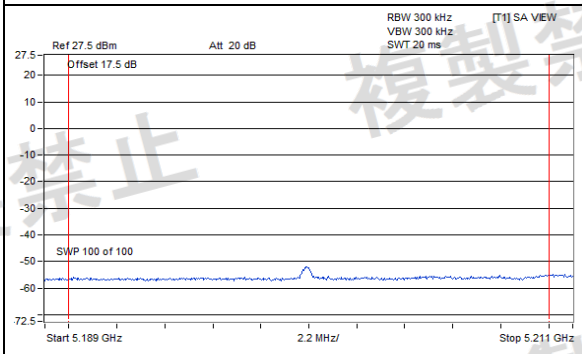
TX Channel Bandwidth 20 MHz Power -30.1 dBm



TX Channel Bandwidth 20 MHz Power -25.05 dBm



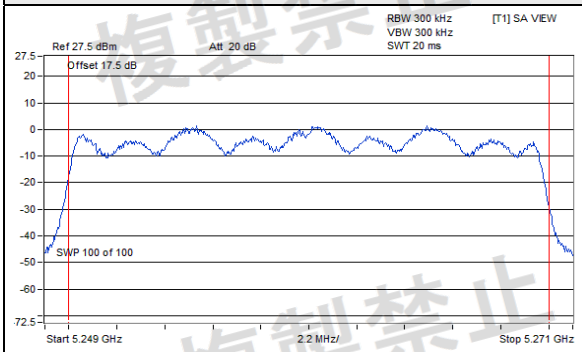
TX Channel Bandwidth 20 MHz Power -37.92 dBm



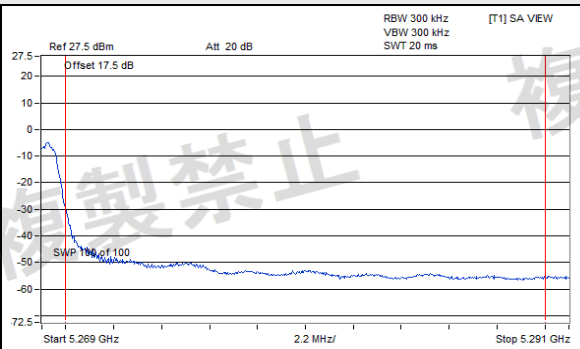
TX Channel Bandwidth 20 MHz Power -37.68 dBm

CH 48 (5240 MHz)

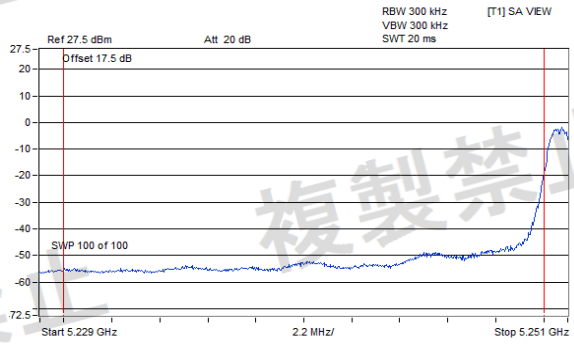
Vnormal



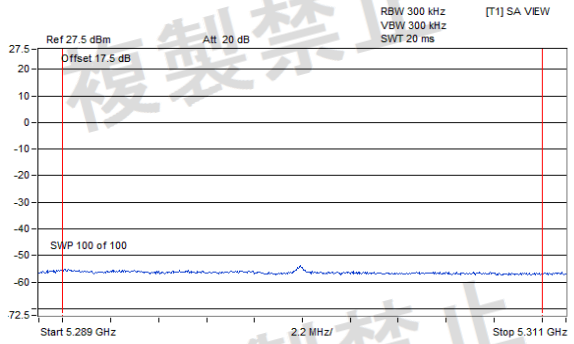
TX Channel Bandwidth 20 MHz Power 14.48 dBm



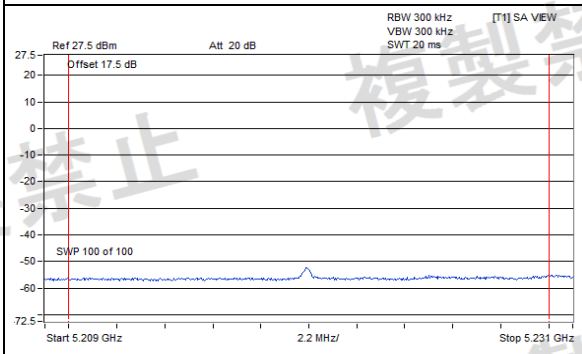
TX Channel Bandwidth 20 MHz Power -30.14 dBm



TX Channel Bandwidth 20 MHz Power -24.09 dBm



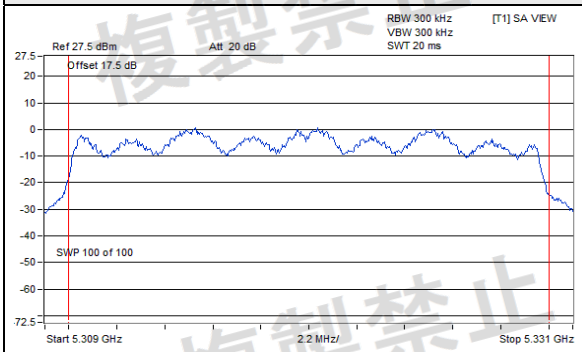
TX Channel Bandwidth 20 MHz Power -37.82 dBm



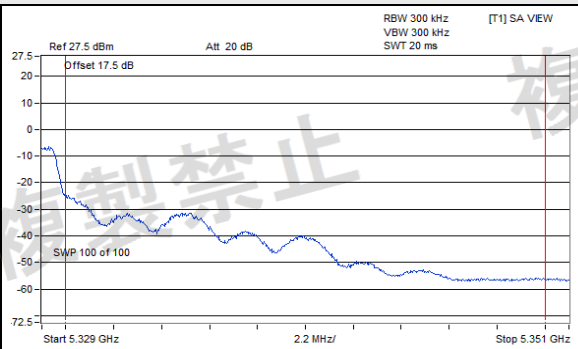
TX Channel Bandwidth 20 MHz Power -37.73 dBm

CH 52 (5260 MHz)

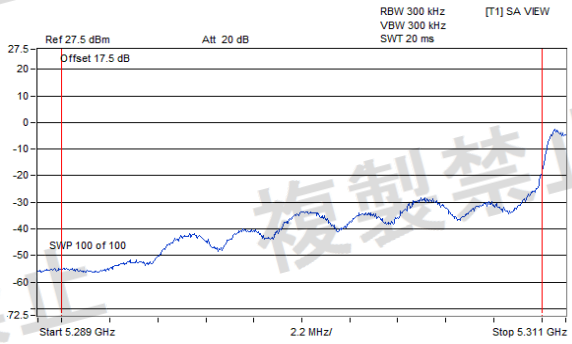
Vnormal



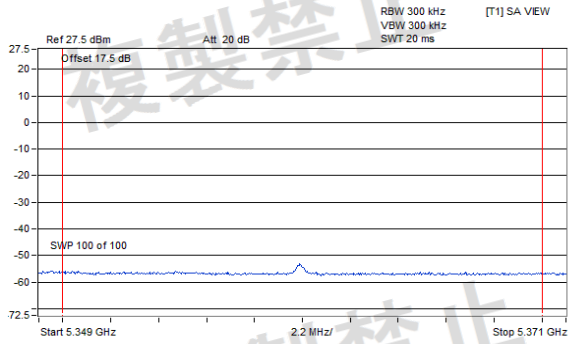
TX Channel Bandwidth 20 MHz Power 13.94 dBm



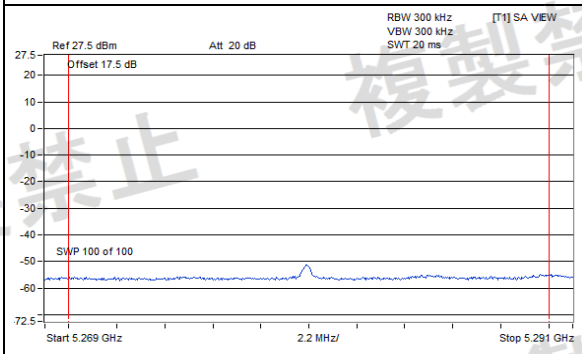
TX Channel Bandwidth 20 MHz Power -17.8 dBm



TX Channel Bandwidth 20 MHz Power -15.63 dBm



TX Channel Bandwidth 20 MHz Power -38.14 dBm



TX Channel Bandwidth 20 MHz Power -37.54 dBm

CH 64 (5320 MHz)

802.11ax (HE20) Sum of each Chain W52&53

TEST CHANNEL		CH 36 (5180 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	MIN. LIMIT (dBc)	RESULT
V_{normal}	Mean Power of Carrier (dBm)	14.21	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	36.21	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	37.31	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	57.60	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	57.48	40	PASS
TEST CHANNEL		CH 48 (5240 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	14.06	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	50.60	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	46.00	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	57.85	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	57.75	40	PASS
TEST CHANNEL		CH 52 (5260 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	14.43	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	50.21	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	45.68	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	58.04	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	58.18	40	PASS
TEST CHANNEL		CH 64 (5320 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	13.85	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	37.00	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	34.94	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	57.75	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	57.35	40	PASS

802.11ax (HE20) Chain 0 W56

Test Condition \ Test Channel		CH 100 (5500 MHz)	CH 120 (5600 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.49	15.43	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	31.36	38.56	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	31.97	37.30	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	55.99	50.51	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	56.83	50.57	40	PASS
Test Condition \ Test Channel		CH 144 (5720 MHz)		Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.12		-	-
	Mean Power +20MHz Distance of Carrier (dBc)	41.58		25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	38.57		25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	51.46		40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	50.11		40	PASS

802.11ax (HE20) Chain 1 W56

Test Condition \ Test Channel		CH 100 (5500 MHz)	CH 120 (5600 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.68	15.13	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	31.16	41.88	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	32.11	39.12	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	55.71	52.07	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	56.53	52.52	40	PASS
Test Condition \ Test Channel		CH 144 (5720 MHz)		Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.58		-	-
	Mean Power +20MHz Distance of Carrier (dBc)	42.17		25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	38.62		25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.21		40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	51.33		40	PASS

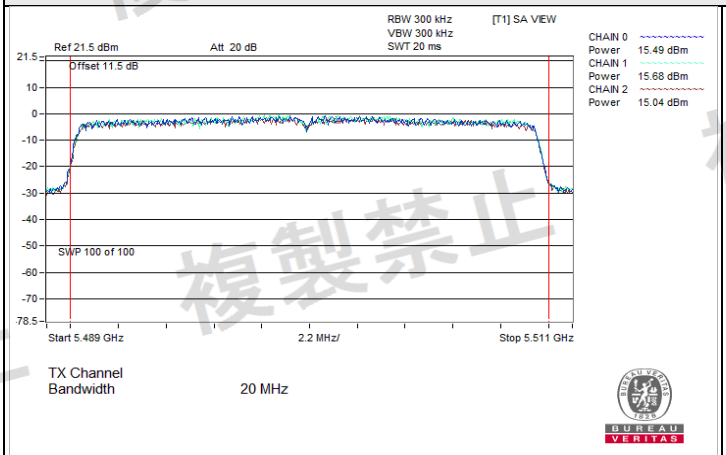
802.11ax (HE20) Chain 2 W56

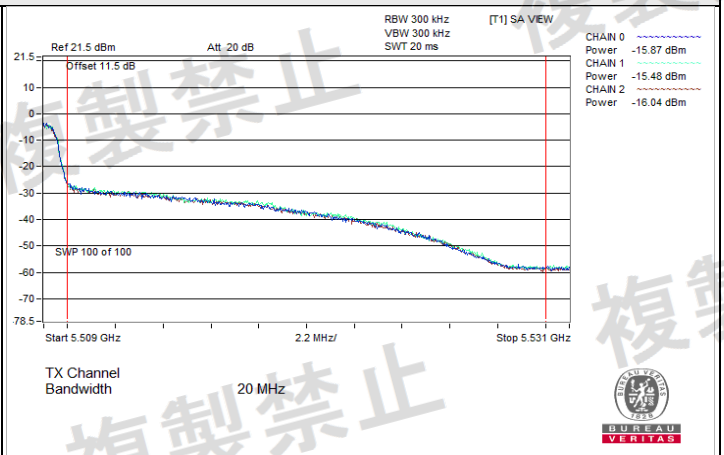
Test Condition \ Test Channel		CH 100 (5500 MHz)	CH 120 (5600 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.04	15.36	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	31.08	43.16	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	32.35	39.25	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	55.72	52.77	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	55.41	52.80	40	PASS

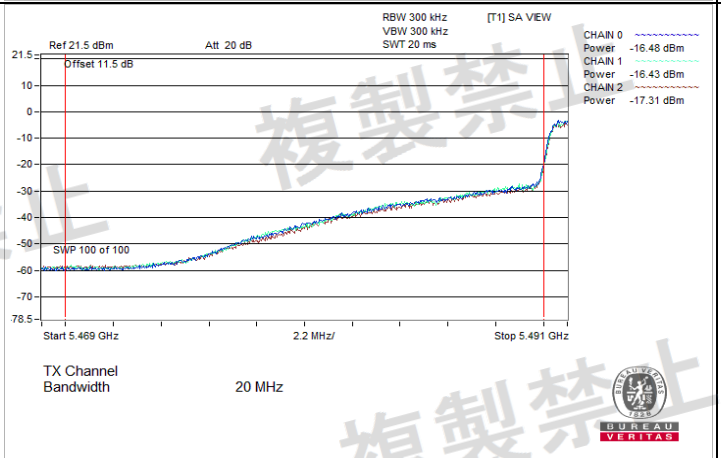
Test Condition \ Test Channel		CH 144 (5720 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.35	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	43.34	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	39.76	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	52.12	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	53.07	40	PASS

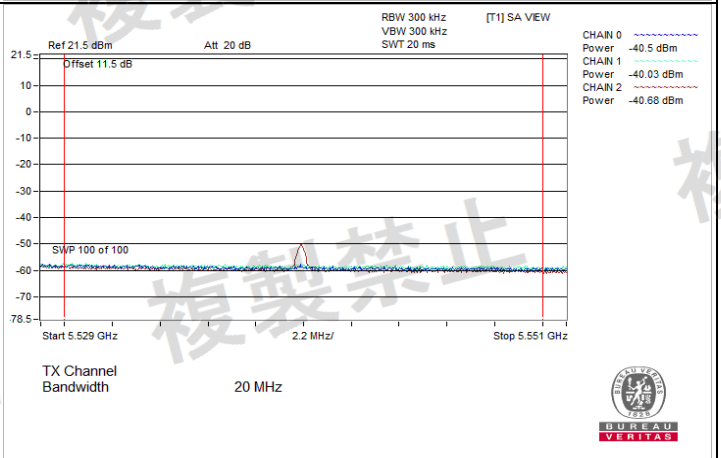
802.11ax (HE20) Graph W56

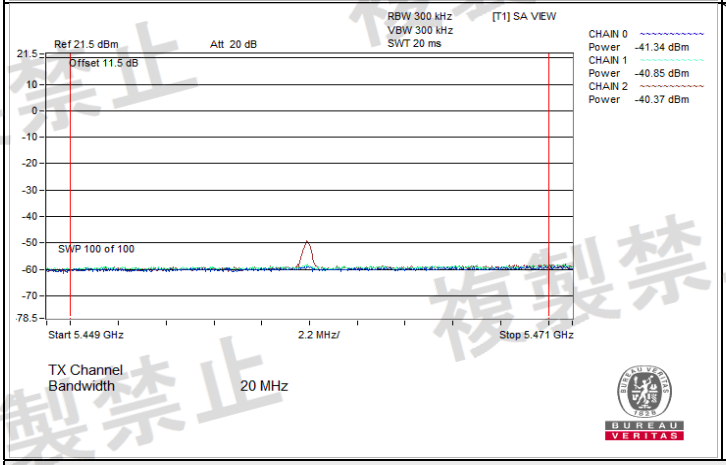
Vnormal





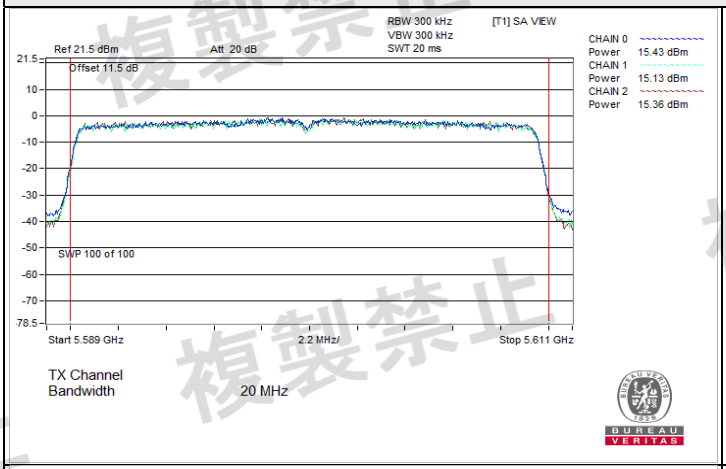


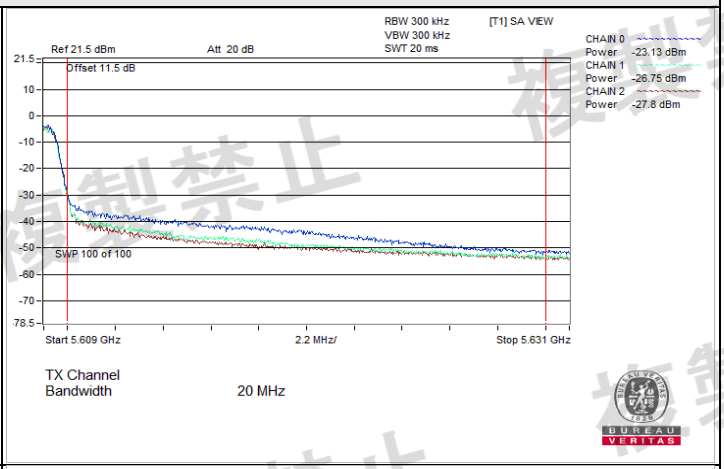


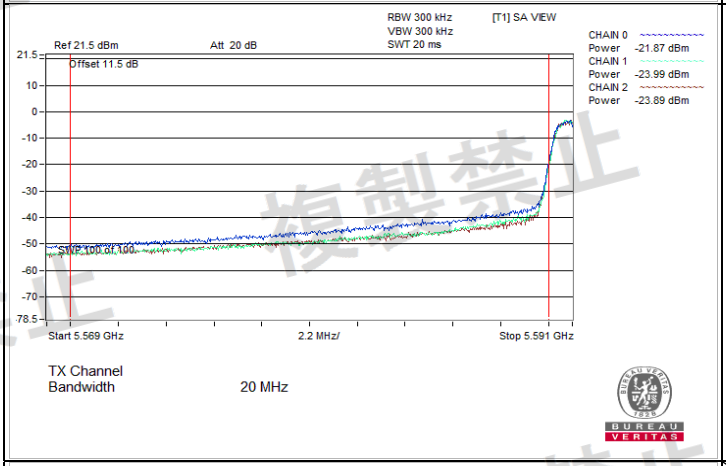


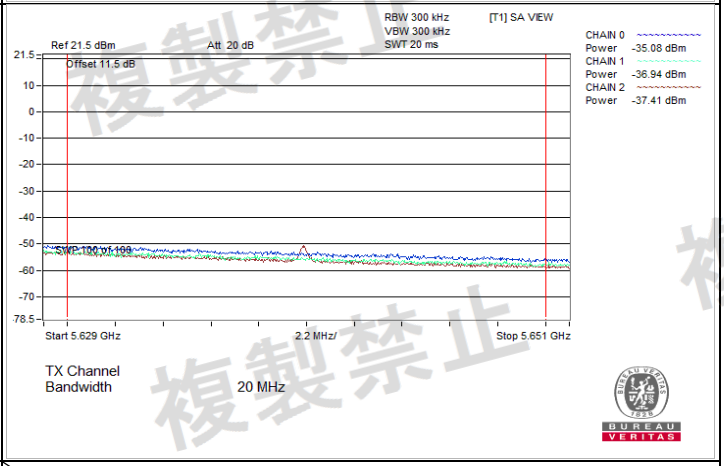
CH 100 (5500 MHz)

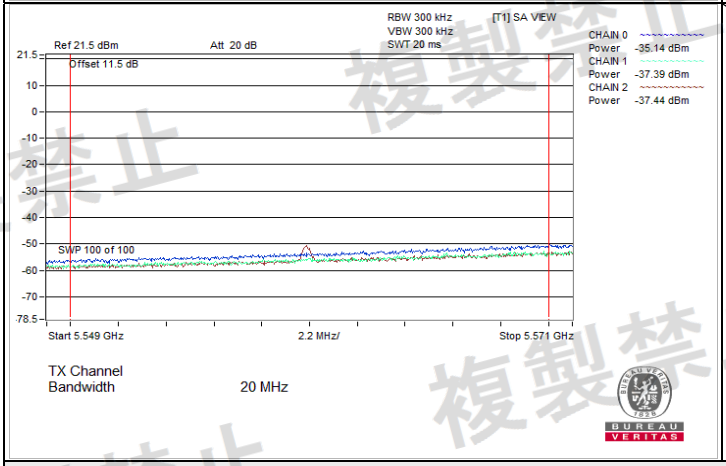
Vnormal





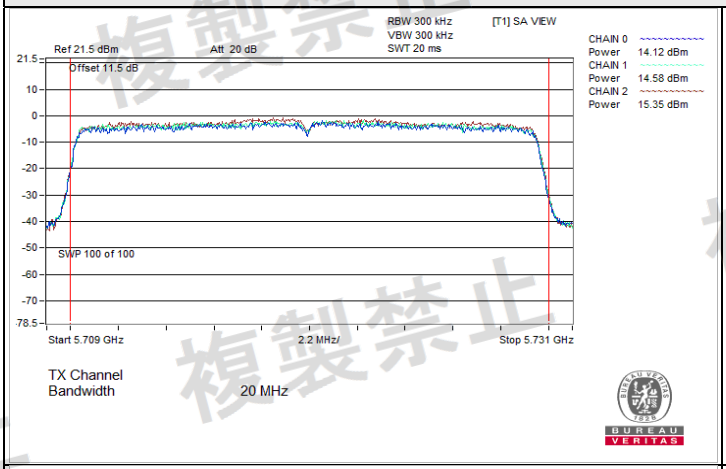


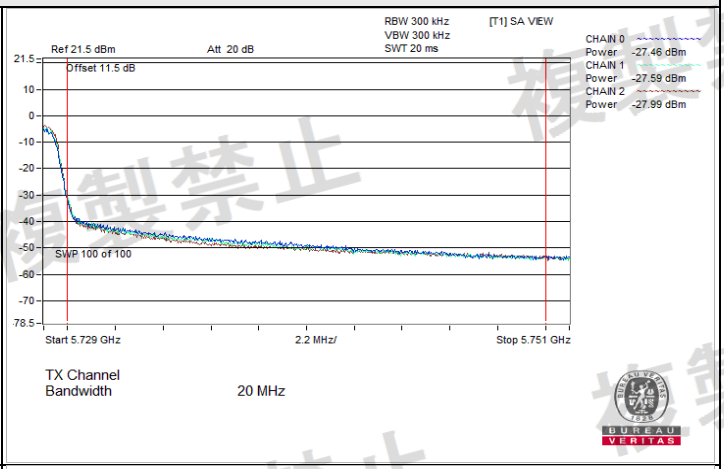


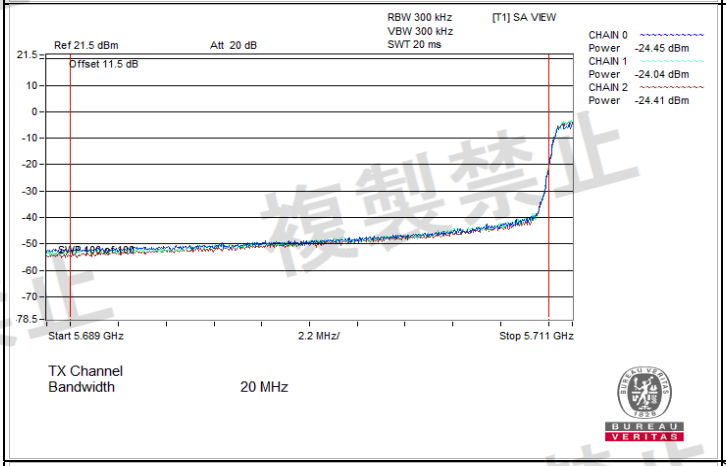


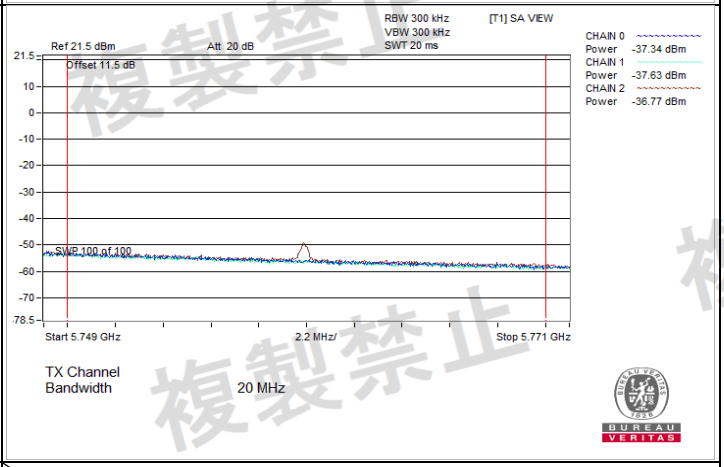
CH 120 (5600 MHz)

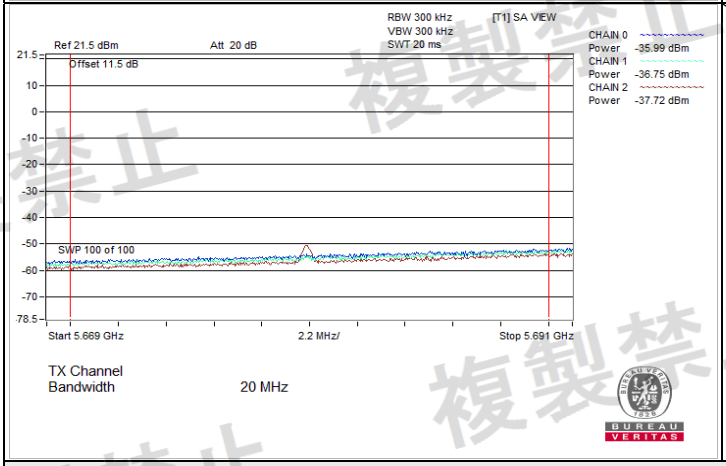
Vnormal











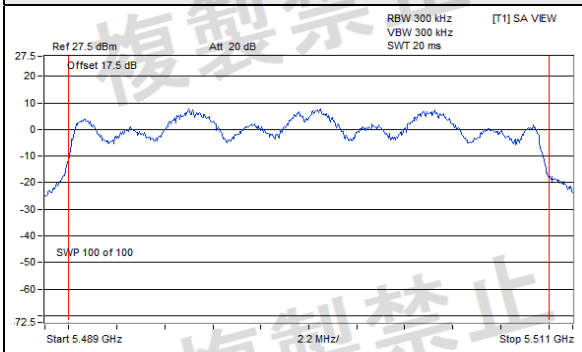
CH 144 (5720 MHz)

802.11ax (HE20) Use combiner W56

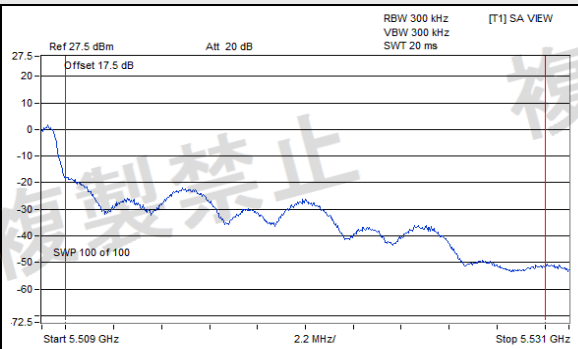
Test Condition \ Test Channel		CH 100 (5500 MHz)	CH 120 (5600 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	20.40	20.85	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	30.25	39.91	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	31.16	36.08	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	54.93	50.05	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	55.46	50.49	40	PASS

Test Condition \ Test Channel		CH 144 (5720 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	19.73	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	41.28	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	36.35	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	51.12	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	50.63	40	PASS

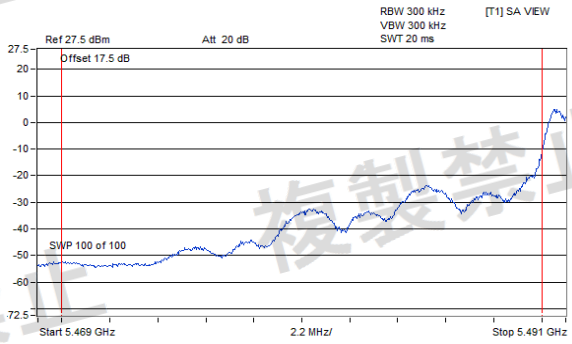
Vnormal



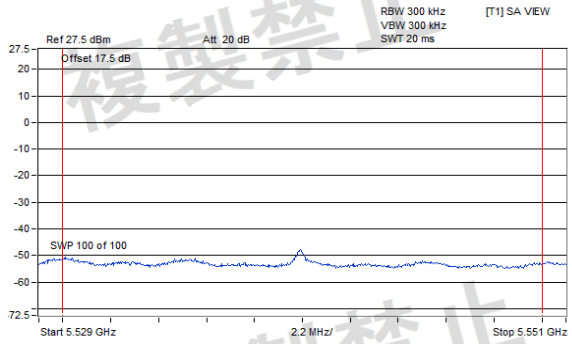
TX Channel Bandwidth 20 MHz Power 20.4 dBm



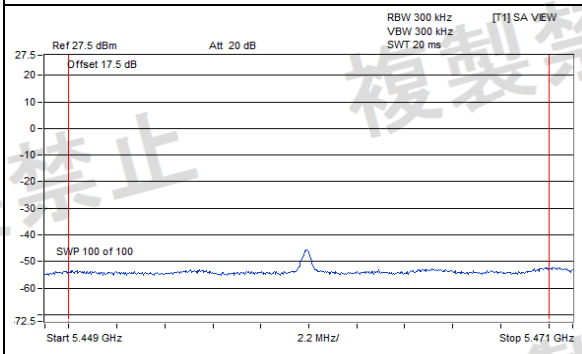
TX Channel Bandwidth 20 MHz Power -9.85 dBm



TX Channel Bandwidth 20 MHz Power -10.76 dBm



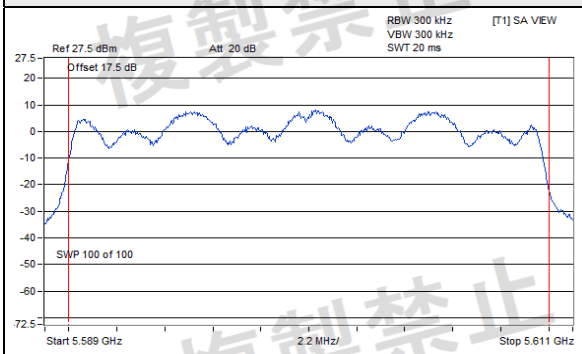
TX Channel Bandwidth 20 MHz Power -34.53 dBm



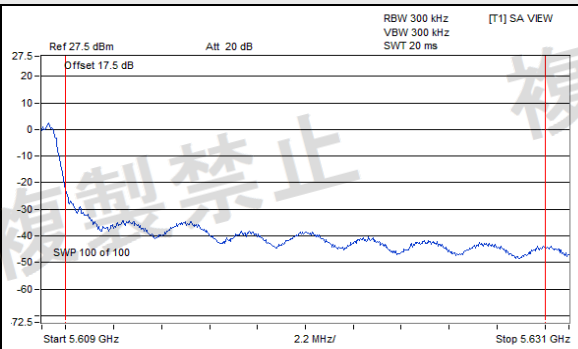
TX Channel Bandwidth 20 MHz Power -35.06 dBm

CH 100 (5500 MHz)

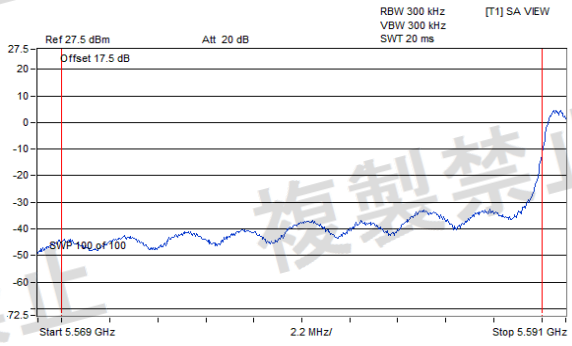
Vnormal



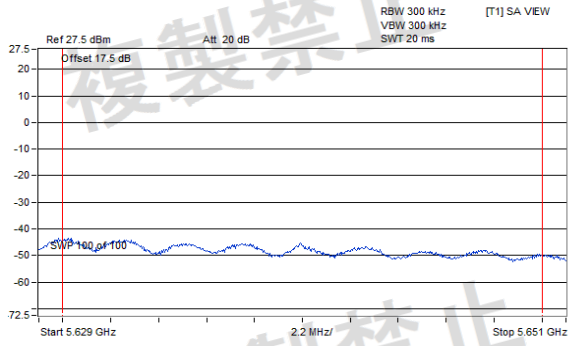
TX Channel Bandwidth 20 MHz Power 20.85 dBm



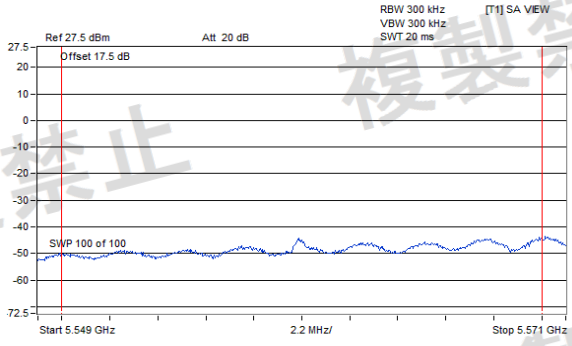
TX Channel Bandwidth 20 MHz Power -19.06 dBm



TX Channel Bandwidth 20 MHz Power -15.23 dBm



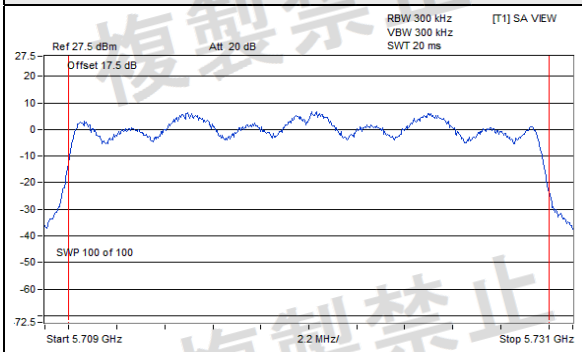
TX Channel Bandwidth 20 MHz Power -29.2 dBm



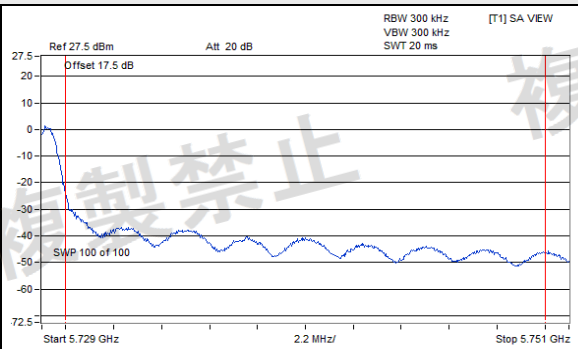
TX Channel Bandwidth 20 MHz Power -29.64 dBm

CH 120 (5600 MHz)

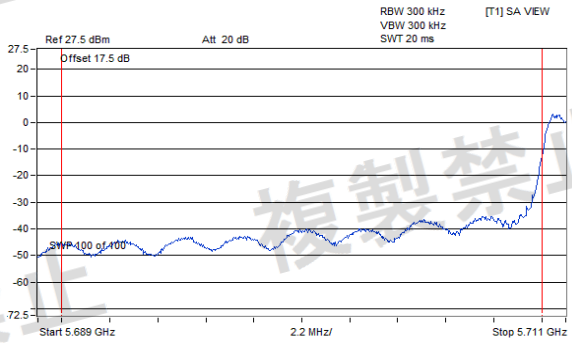
Vnormal



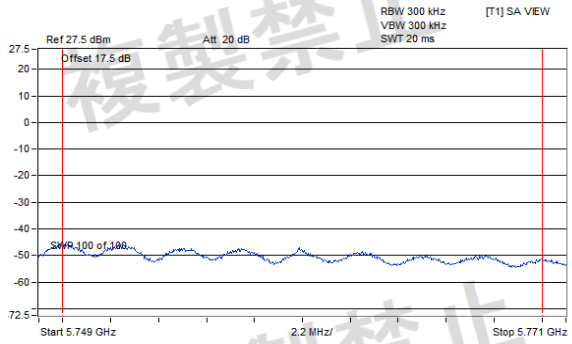
TX Channel Bandwidth 20 MHz Power 19.73 dBm



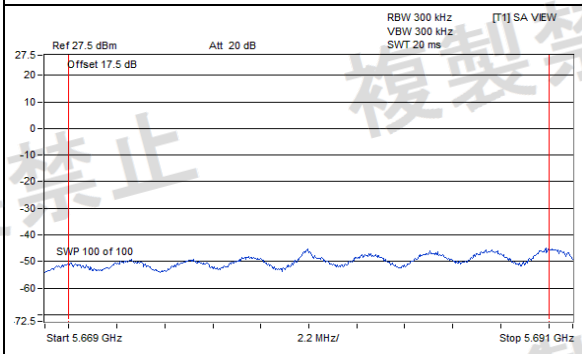
TX Channel Bandwidth 20 MHz Power -21.55 dBm



TX Channel Bandwidth 20 MHz Power -16.62 dBm



TX Channel Bandwidth 20 MHz Power -31.39 dBm



TX Channel Bandwidth 20 MHz Power -30.9 dBm

CH 144 (5720 MHz)

802.11ax (HE20) Sum of each Chain W56

TEST CHANNEL		CH 100 (5500 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	MIN. LIMIT (dBc)	RESULT
V_{normal}	Mean Power of Carrier (dBm)	20.18	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	35.97	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	36.92	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	60.58	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	61.07	40	PASS
TEST CHANNEL		CH 120 (5600 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	20.08	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	46.36	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	43.41	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	56.65	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	56.84	40	PASS
TEST CHANNEL		CH 144 (5720 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	19.48	-	-
	Mean Power +20MHz Distance of Carrier (dBc)	47.20	25	PASS
	Mean Power -20MHz Distance of Carrier (dBc)	43.79	25	PASS
	Mean Power +40MHz Distance of Carrier (dBc)	56.71	40	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	56.45	40	PASS

802.11ax (HE40) Chain 0 W52&53

Test Condition \ Test Channel		CH 38 (5190 MHz)	CH 46 (5230 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	8.41	8.18	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	31.97	46.49	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	34.47	46.51	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	49.47	49.21	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	49.47	49.29	40	PASS
Test Condition \ Test Channel		**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**	**Min. Limit (dBc)**	**Result**
V_{normal}	Mean Power of Carrier (dBm)	8.63	8.06	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	46.83	33.79	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	47.34	31.83	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	49.71	49.46	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	49.86	49.54	40	PASS

802.11ax (HE40) Chain 1 W52&53

Test Condition \ Test Channel		CH 38 (5190 MHz)	CH 46 (5230 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	8.44	8.18	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	31.79	47.07	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	34.17	46.88	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	49.40	49.53	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	49.23	49.23	40	PASS
Test Condition \ Test Channel		**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**	**Min. Limit (dBc)**	**Result**
V_{normal}	Mean Power of Carrier (dBm)	8.39	8.08	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	47.35	34.04	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	47.42	31.47	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	49.92	49.32	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	49.59	49.13	40	PASS

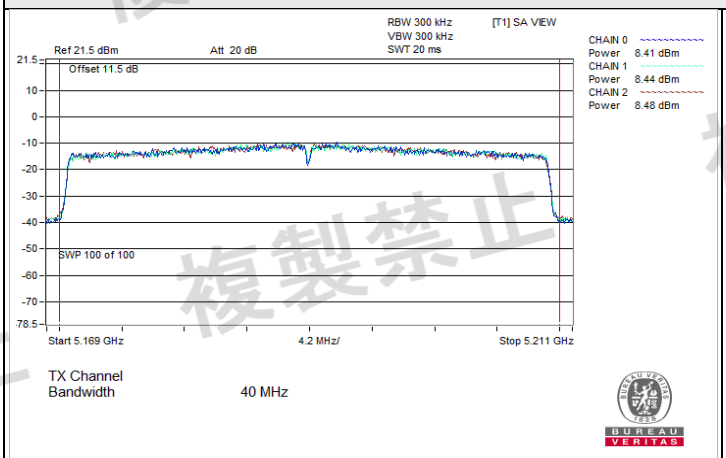
802.11ax (HE40) Chain 2 W52&53

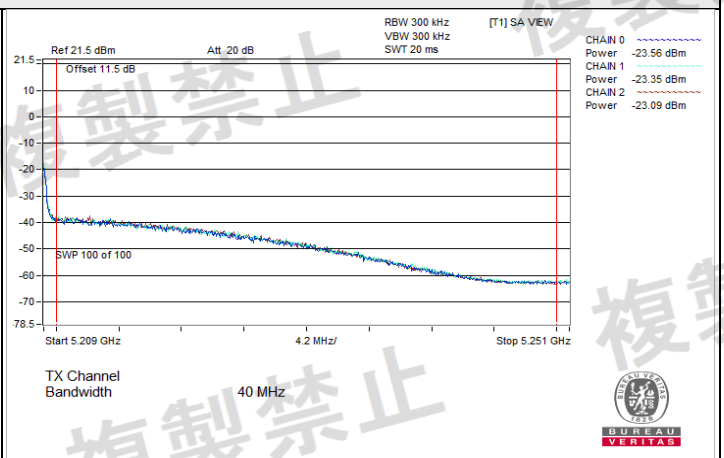
Test Condition \ Test Channel		CH 38 (5190 MHz)	CH 46 (5230 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	8.48	8.46	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	31.57	47.09	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	33.89	46.63	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	49.82	49.96	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	49.44	49.27	40	PASS
Test Condition \ Test Channel		**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**	**Min. Limit (dBc)**	**Result**
V_{normal}	Mean Power of Carrier (dBm)	8.26	8.49	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	46.82	34.27	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	46.70	31.24	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	49.86	49.57	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	49.22	49.43	40	PASS

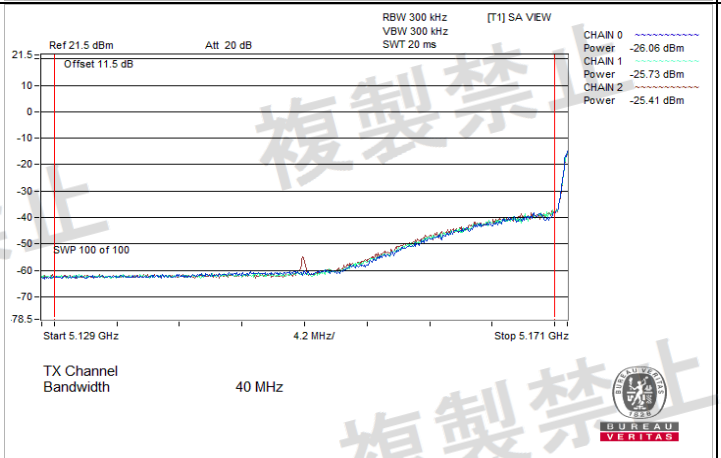
複製禁止

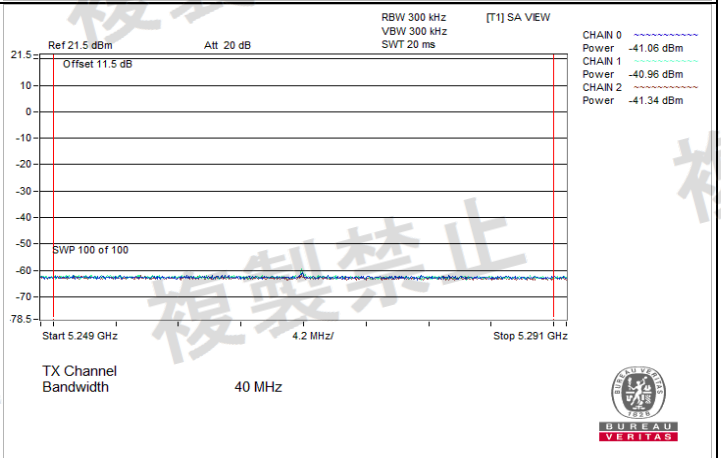
802.11ax (HE40) Graph W52&53

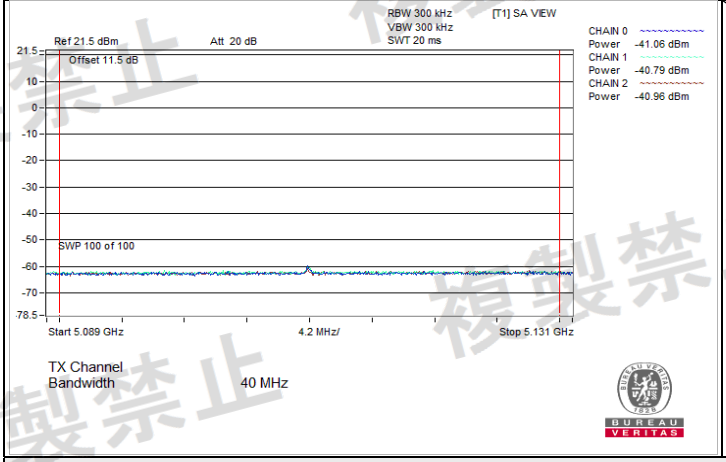
Vnormal





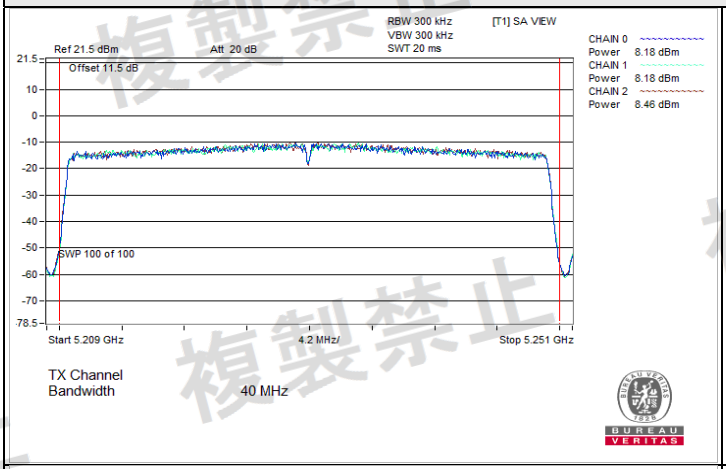




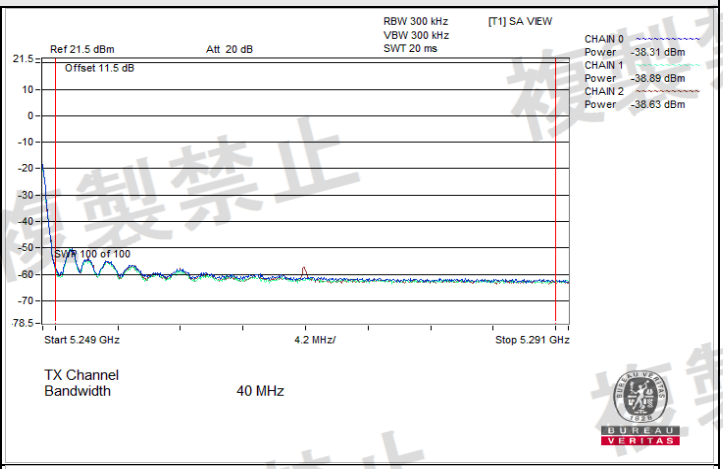


CH 38 (5190 MHz)

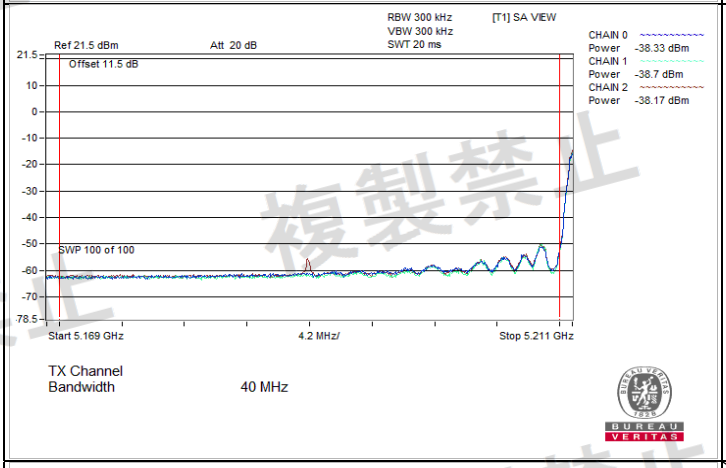
Vnormal



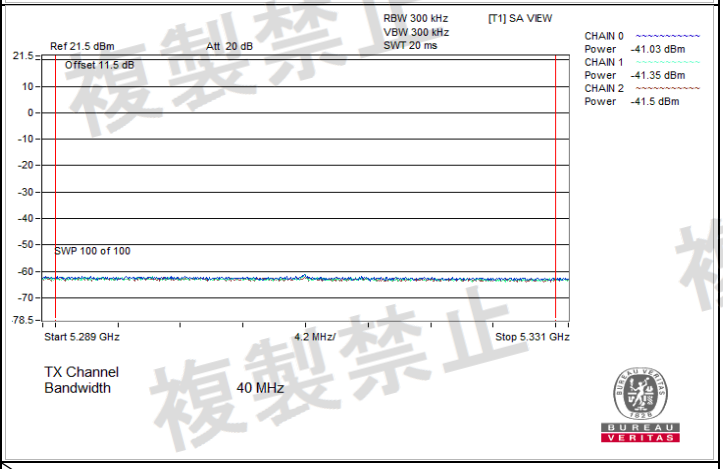
TX Channel Bandwidth 40 MHz



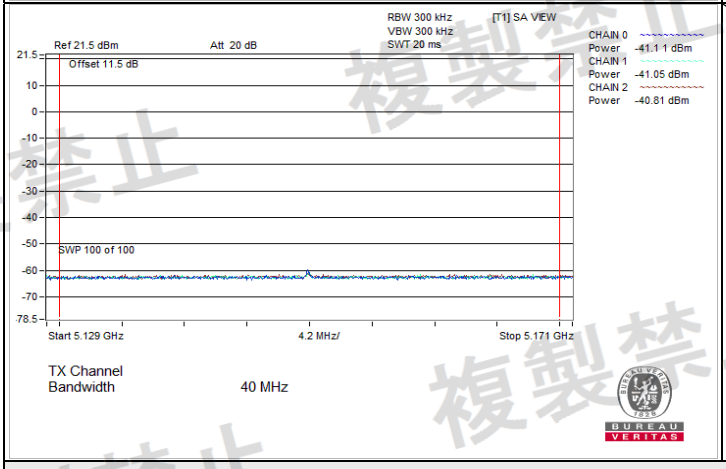
TX Channel Bandwidth 40 MHz



TX Channel Bandwidth 40 MHz



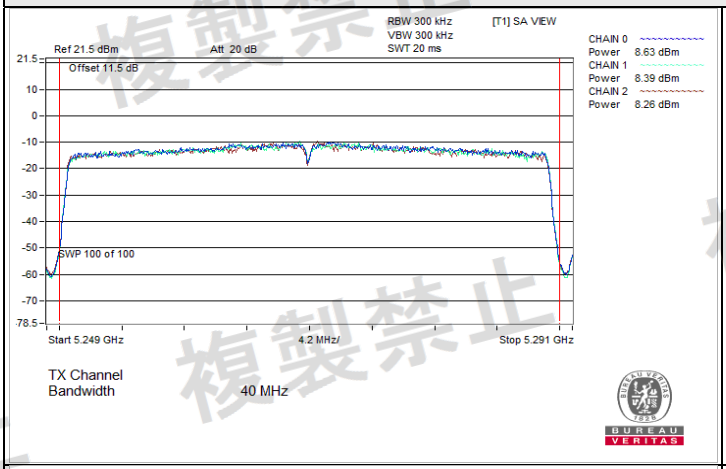
TX Channel Bandwidth 40 MHz



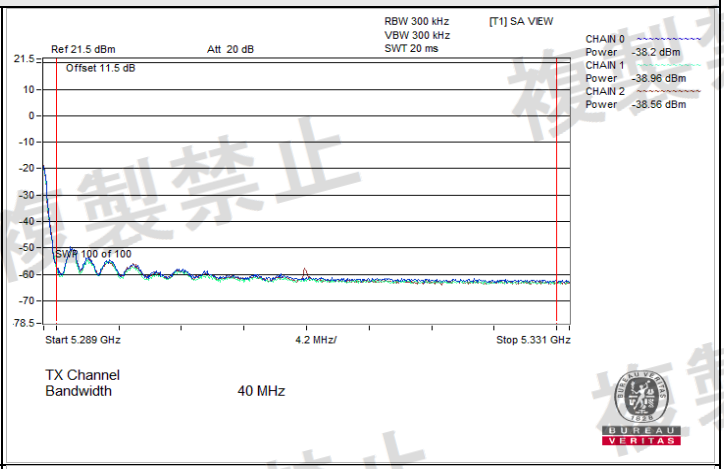
TX Channel Bandwidth 40 MHz

CH 46 (5230 MHz)

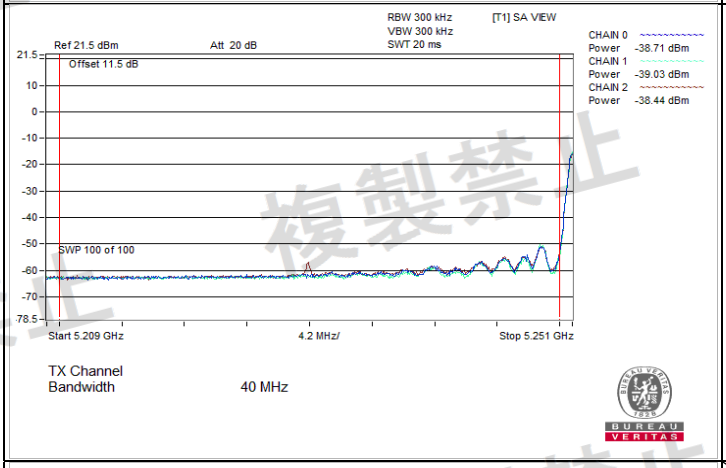
Vnormal



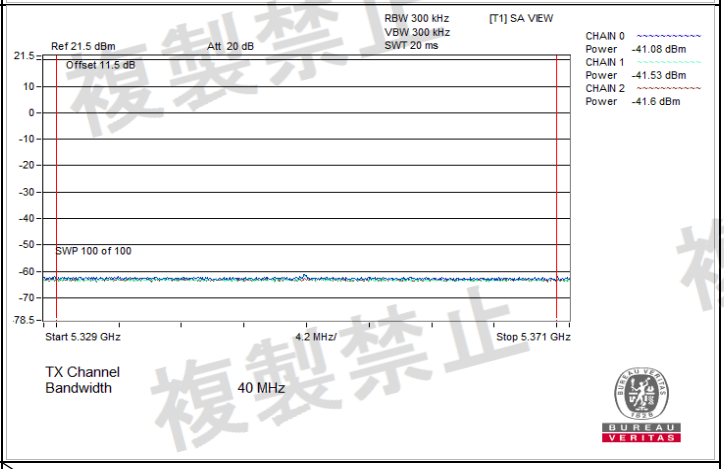
TX Channel Bandwidth 40 MHz



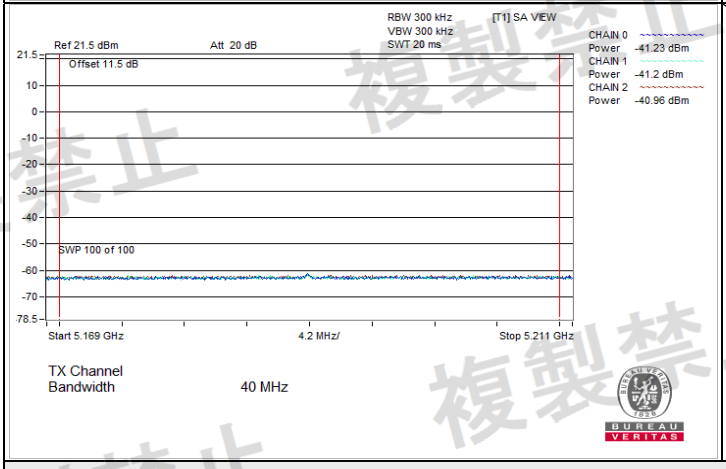
TX Channel Bandwidth 40 MHz



TX Channel Bandwidth 40 MHz



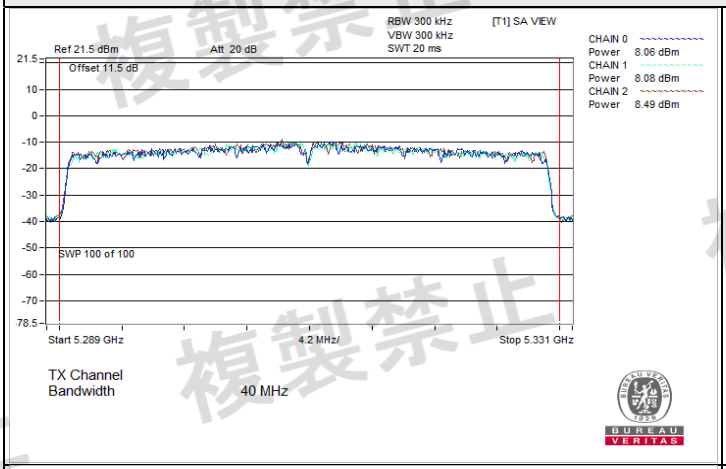
TX Channel Bandwidth 40 MHz



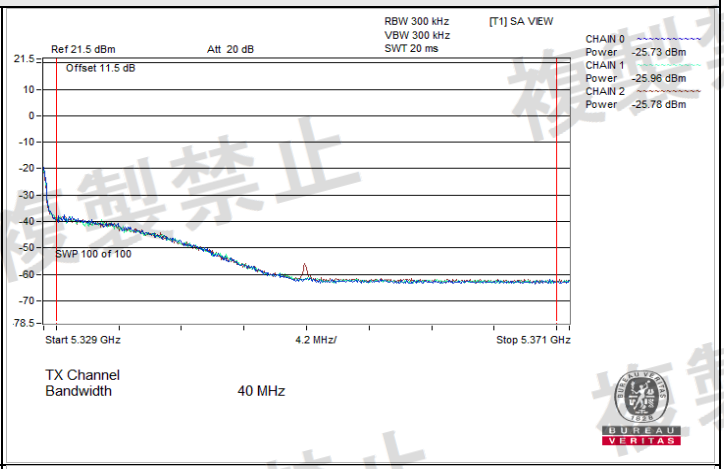
TX Channel Bandwidth 40 MHz

CH 54 (5270 MHz)

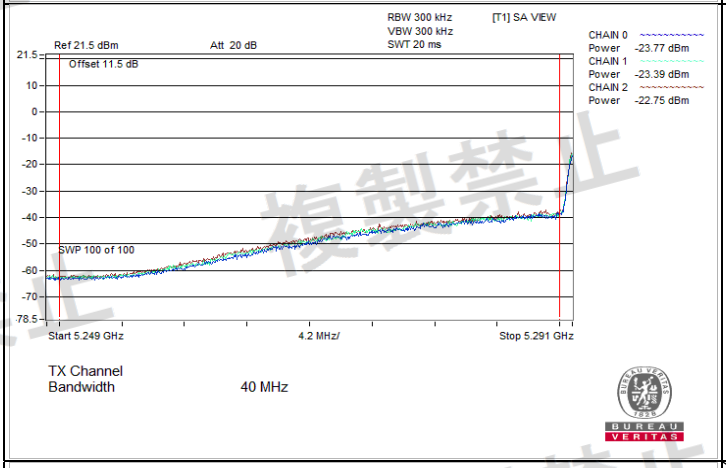
Vnormal



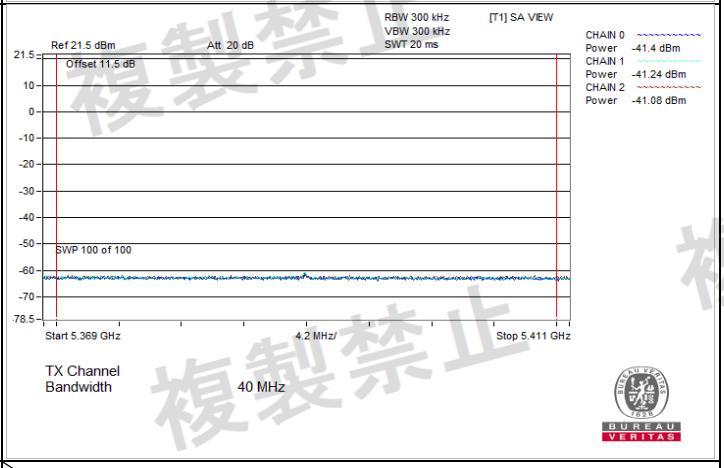
TX Channel Bandwidth 40 MHz



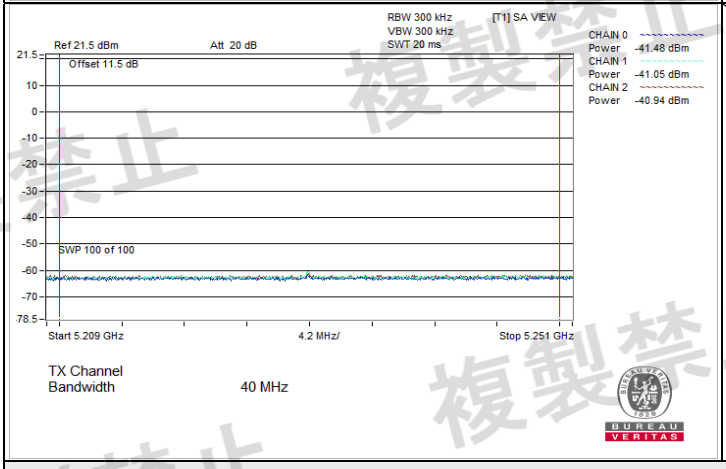
TX Channel Bandwidth 40 MHz



TX Channel Bandwidth 40 MHz



TX Channel Bandwidth 40 MHz



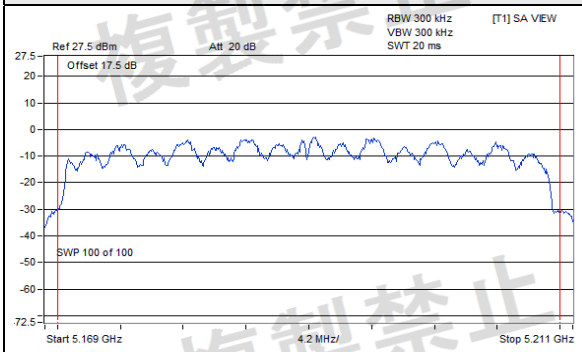
TX Channel Bandwidth 40 MHz

CH 62 (5310 MHz)

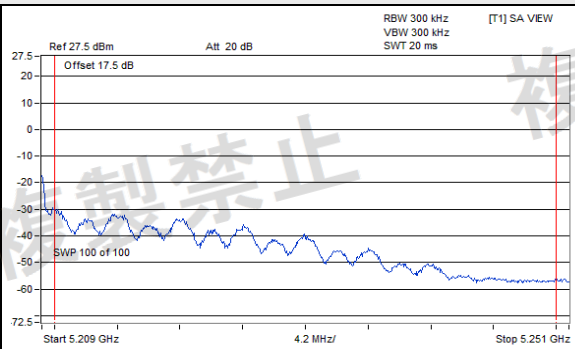
802.11ax (HE40) Use combiner W52&53

Test Condition \ Test Channel		CH 38 (5190 MHz)	CH 46 (5230 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	13.35	13.43	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	31.48	46.66	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	34.04	46.34	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	48.81	49.04	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	48.57	48.62	40	PASS
Test Condition \ Test Channel		**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**	**Min. Limit (dBc)**	**Result**
V_{normal}	Mean Power of Carrier (dBm)	13.29	12.49	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	46.77	33.70	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	46.59	31.01	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	49.03	48.10	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	48.57	47.88	40	PASS

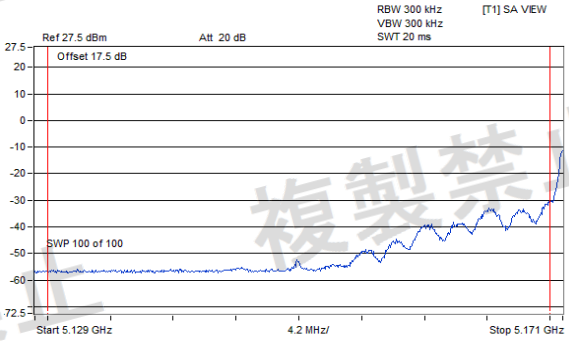
Vnormal



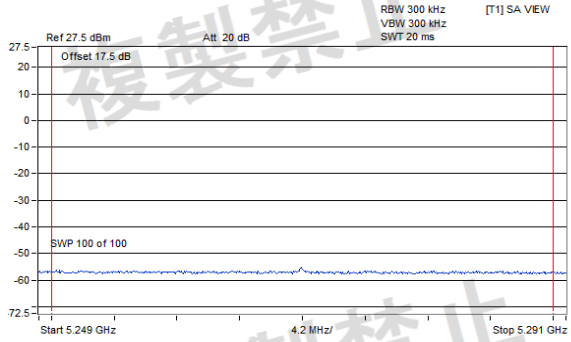
TX Channel Bandwidth 40 MHz Power 13.35 dBm



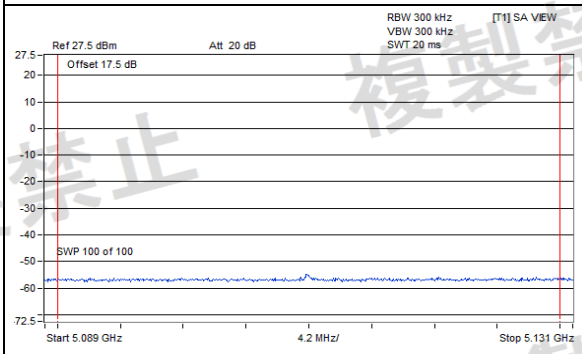
TX Channel Bandwidth 40 MHz Power -18.13 dBm



TX Channel Bandwidth 40 MHz Power -20.69 dBm



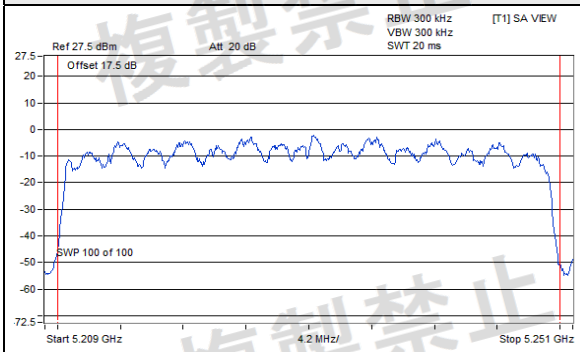
TX Channel Bandwidth 40 MHz Power -35.46 dBm



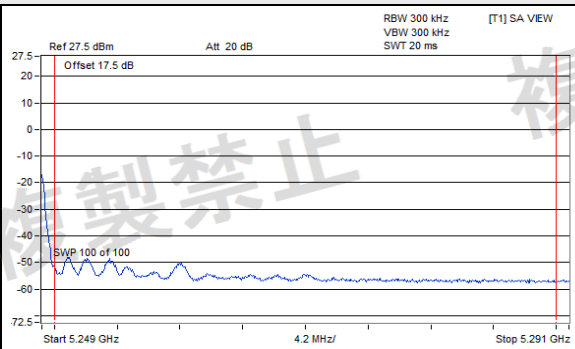
TX Channel Bandwidth 40 MHz Power -35.22 dBm

CH 38 (5190 MHz)

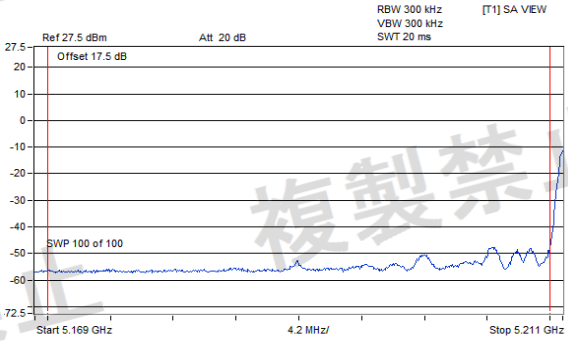
Vnormal



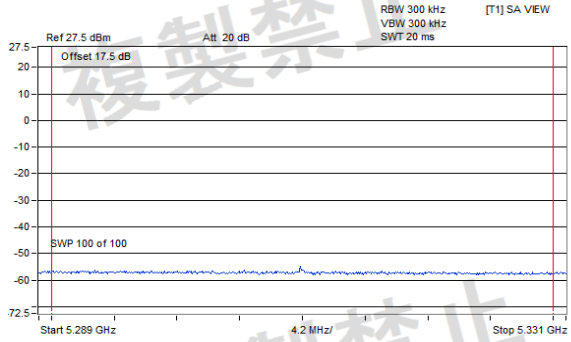
TX Channel Bandwidth 40 MHz Power 13.43 dBm



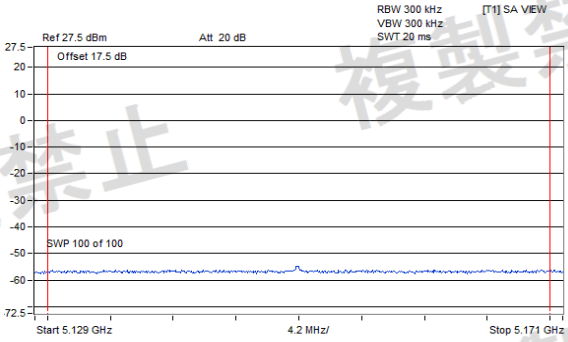
TX Channel Bandwidth 40 MHz Power -33.23 dBm



TX Channel Bandwidth 40 MHz Power -32.91 dBm



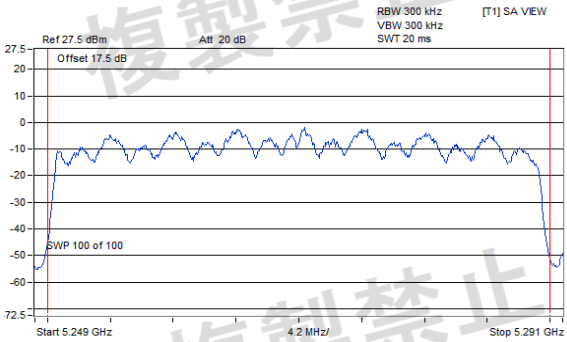
TX Channel Bandwidth 40 MHz Power -35.61 dBm



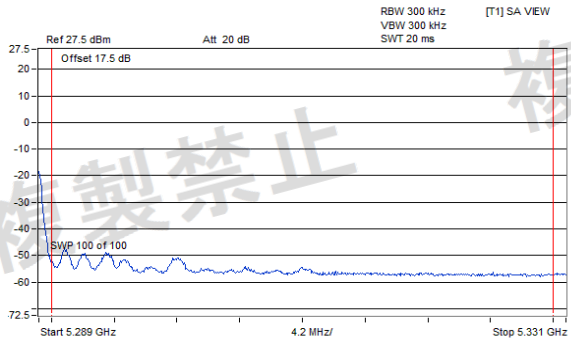
TX Channel Bandwidth 40 MHz Power -35.19 dBm

CH 46 (5230 MHz)

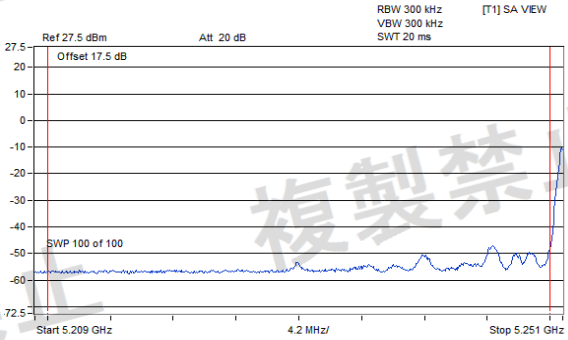
Vnormal



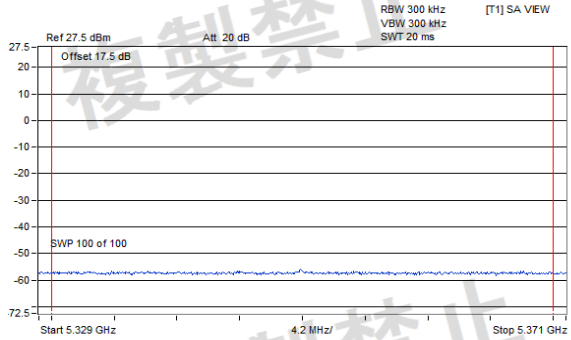
TX Channel Bandwidth 40 MHz Power 13.29 dBm



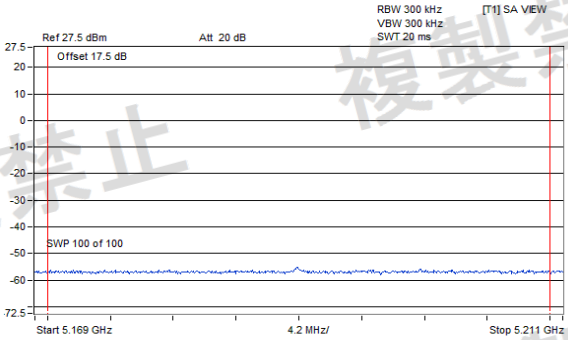
TX Channel Bandwidth 40 MHz Power -33.48 dBm



TX Channel Bandwidth 40 MHz Power -33.3 dBm



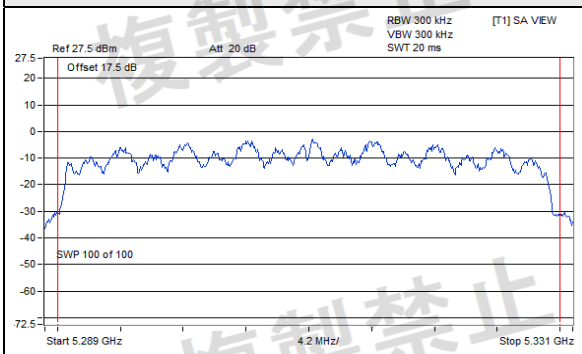
TX Channel Bandwidth 40 MHz Power -35.74 dBm



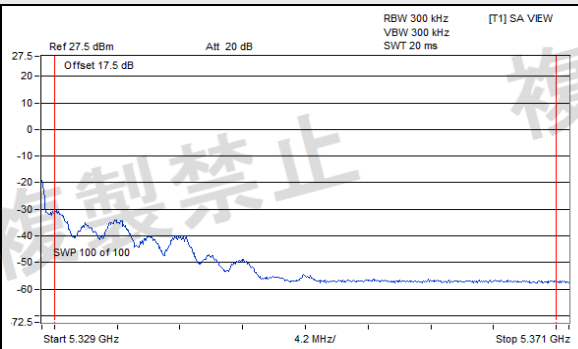
TX Channel Bandwidth 40 MHz Power -35.28 dBm

CH 54 (5270 MHz)

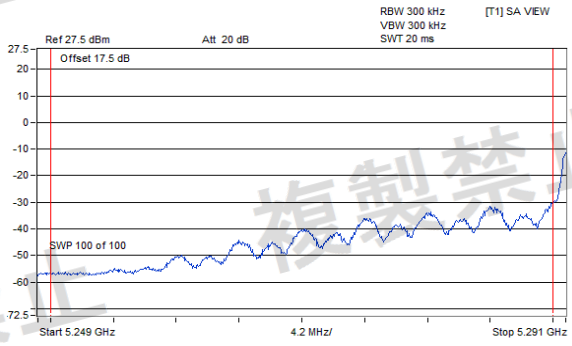
Vnormal



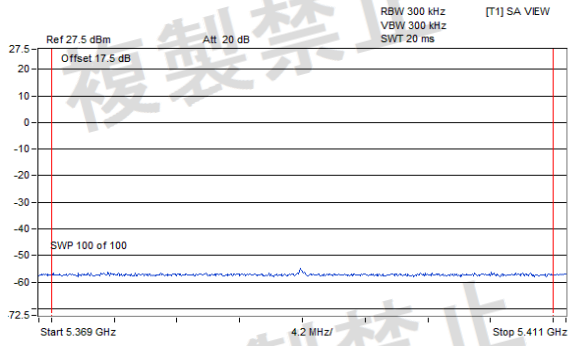
TX Channel Bandwidth 40 MHz Power 12.49 dBm



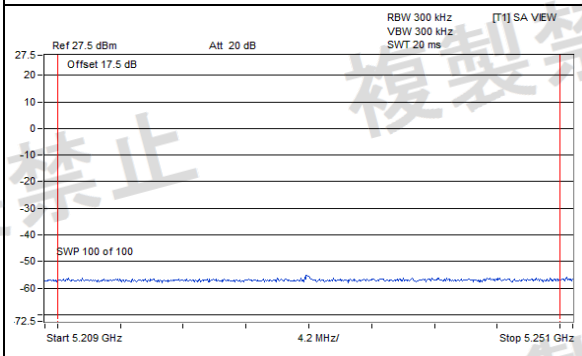
TX Channel Bandwidth 40 MHz Power -21.21 dBm



TX Channel Bandwidth 40 MHz Power -18.52 dBm



TX Channel Bandwidth 40 MHz Power -35.61 dBm



TX Channel Bandwidth 40 MHz Power -35.39 dBm

CH 62 (5310 MHz)

802.11ax (HE40) Sum of each Chain W52&53

TEST CHANNEL		CH 38 (5190 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	MIN. LIMIT (dBc)	RESULT
V_{normal}	Mean Power of Carrier (dBm)	13.21	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	36.55	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	38.95	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	54.34	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	54.15	40	PASS
TEST CHANNEL		CH 46 (5230 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	13.05	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	51.66	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	51.45	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	54.35	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	54.03	40	PASS
TEST CHANNEL		CH 54 (5270 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	13.20	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	51.78	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	51.94	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	54.60	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	54.34	40	PASS
TEST CHANNEL		CH 62 (5310 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	12.99	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	38.81	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	36.29	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	54.22	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	54.14	40	PASS

802.11ax (HE40) Chain 0 W56

Test Condition \ Test Channel		CH 102 (5510 MHz)	CH 118 (5590 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.69	14.16	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	32.50	41.43	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	34.20	41.88	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	52.47	52.40	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	53.19	53.18	40	PASS

Test Condition \ Test Channel		CH 142 (5710 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	13.38	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	42.63	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	43.77	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	52.48	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	51.13	40	PASS

802.11ax (HE40) Chain 1 W56

Test Condition \ Test Channel		CH 102 (5510 MHz)	CH 118 (5590 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.43	14.23	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	32.04	44.33	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	34.44	44.27	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	53.06	52.89	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	53.73	53.53	40	PASS

Test Condition \ Test Channel		CH 142 (5710 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	13.26	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	46.03	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	45.73	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	53.09	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	52.39	40	PASS

802.11ax (HE40) Chain 2 W56

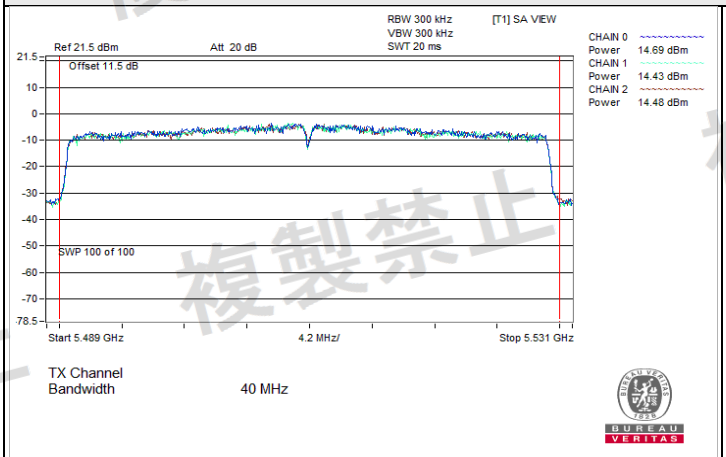
Test Condition \ Test Channel		CH 102 (5510 MHz)	CH 118 (5590 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.48	14.42	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	31.83	46.37	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	34.56	45.02	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	54.47	53.14	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	53.99	52.99	40	PASS

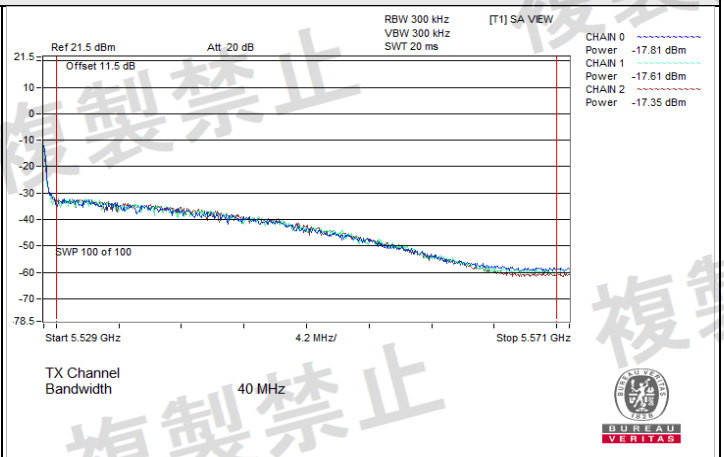
Test Condition \ Test Channel		CH 142 (5710 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	13.12	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	46.77	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	47.02	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	52.48	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	53.23	40	PASS

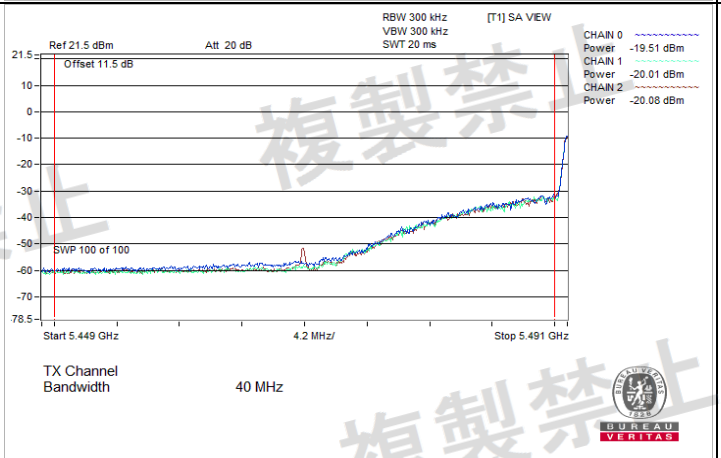
複製禁止

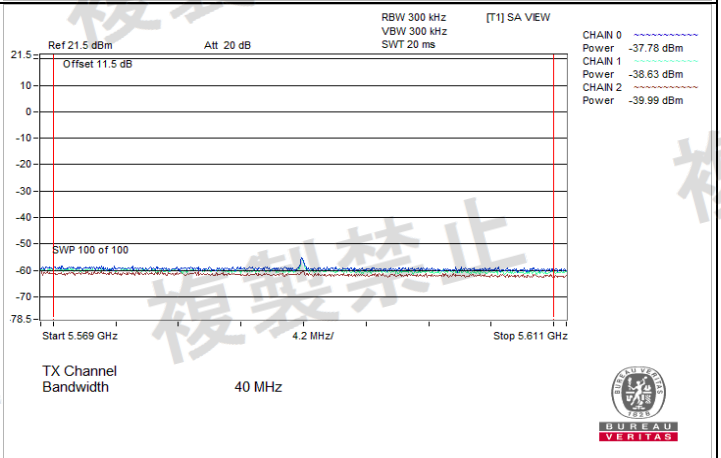
802.11ax (HE40) Graph W56

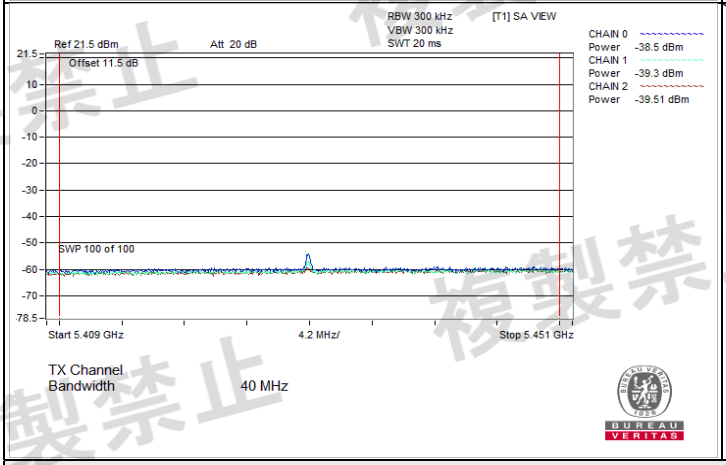
Vnormal





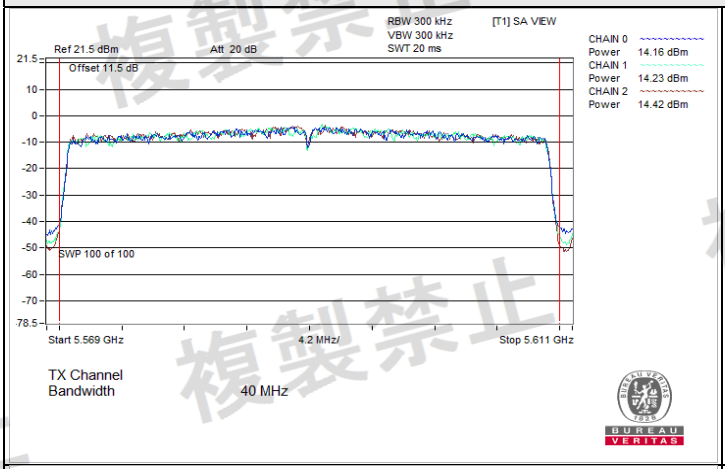


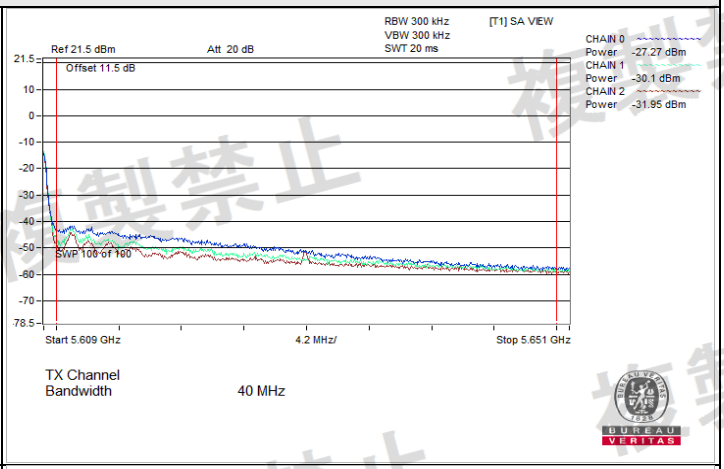


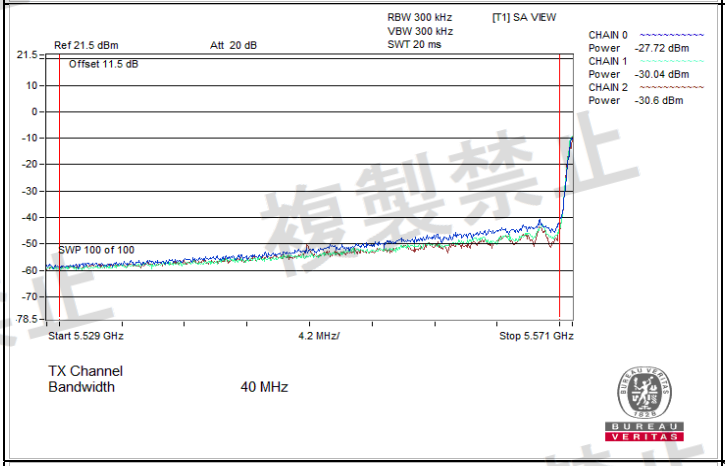


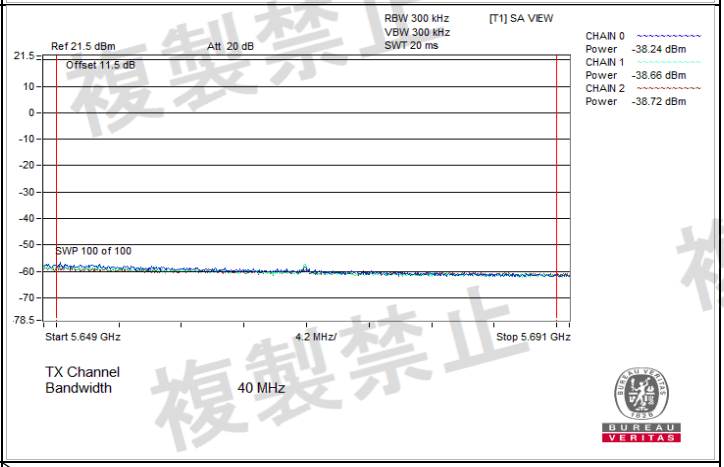
CH 102 (5510 MHz)

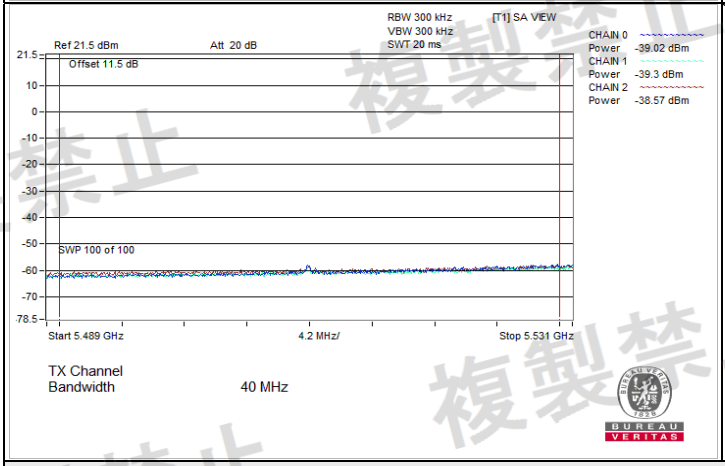
Vnormal





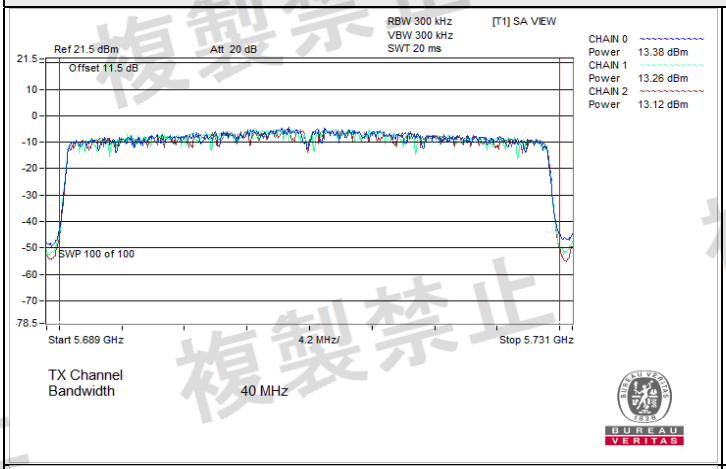




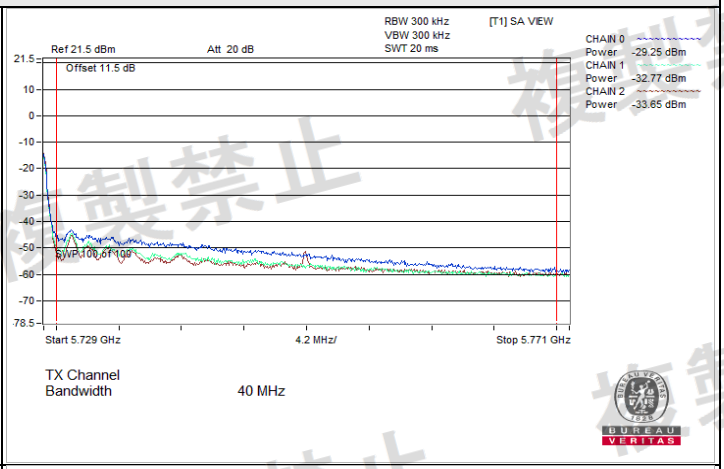


CH 118 (5590 MHz)

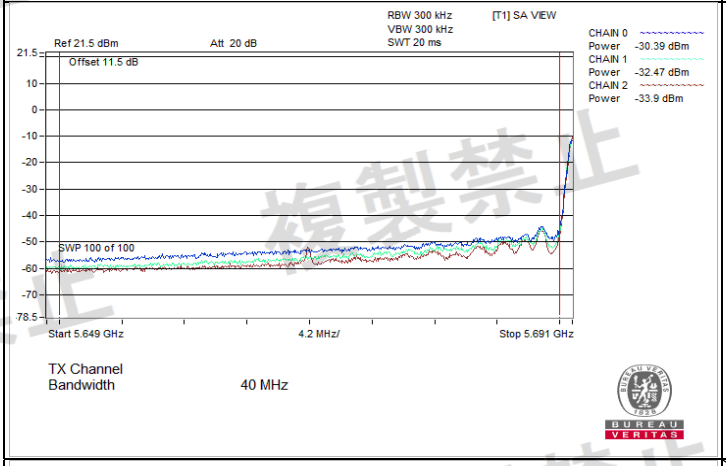
Vnormal



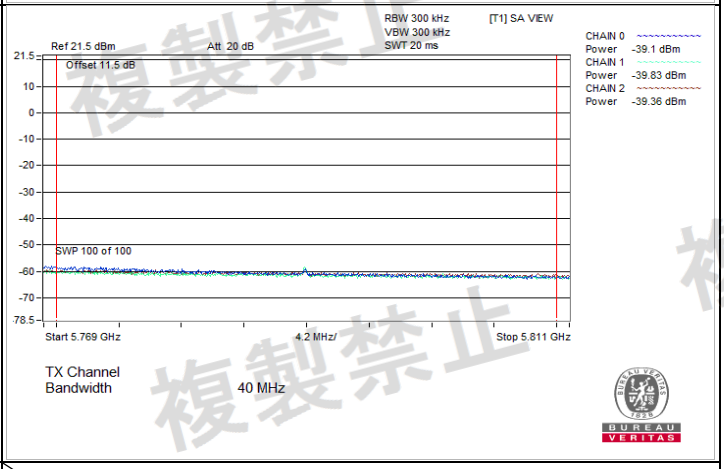
TX Channel Bandwidth 40 MHz



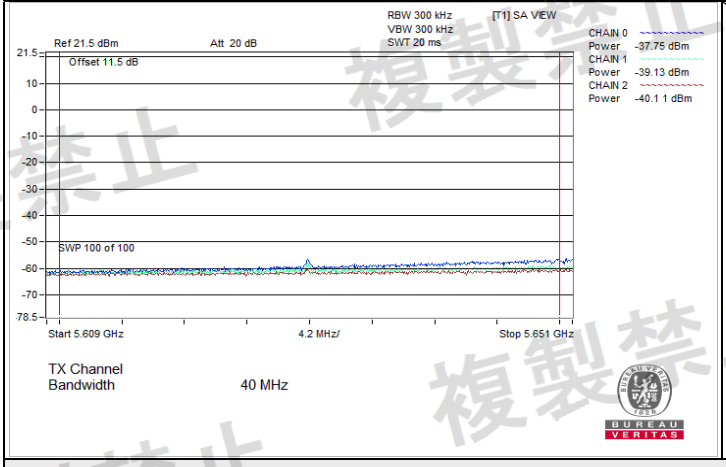
TX Channel Bandwidth 40 MHz



TX Channel Bandwidth 40 MHz



TX Channel Bandwidth 40 MHz



TX Channel Bandwidth 40 MHz

CH 142 (5710 MHz)

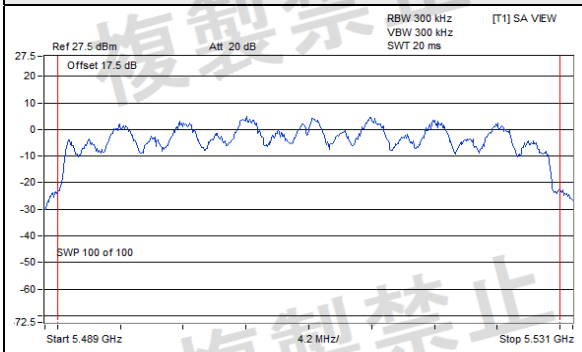
802.11ax (HE40) Use combiner W56

Test Condition \ Test Channel		CH 102 (5510 MHz)	CH 118 (5590 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	19.91	19.94	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	31.30	43.64	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	34.41	42.91	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	52.63	51.97	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	53.19	52.69	40	PASS

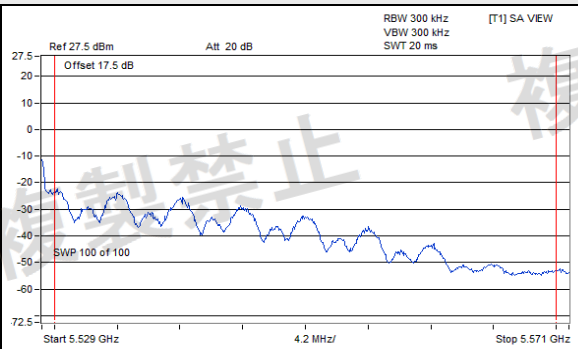
Test Condition \ Test Channel		CH 142 (5710 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	18.57	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	44.68	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	43.97	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	52.18	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	51.90	40	PASS

複製禁止

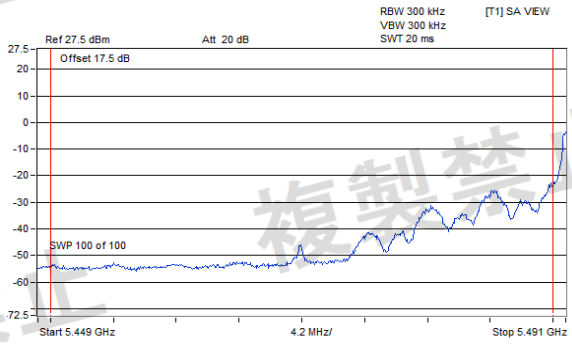
Vnormal



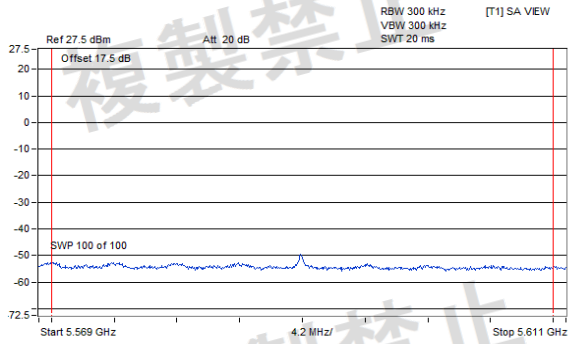
TX Channel Bandwidth 40 MHz Power 19.91 dBm



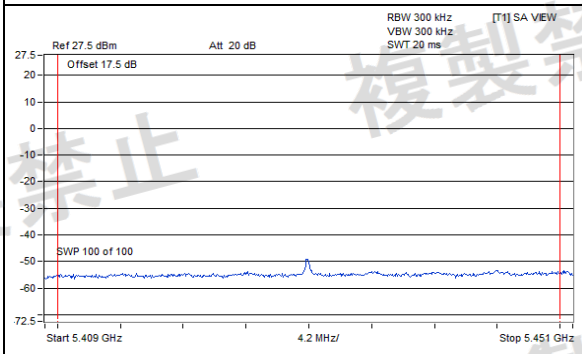
TX Channel Bandwidth 40 MHz Power -11.39 dBm



TX Channel Bandwidth 40 MHz Power -14.5 dBm



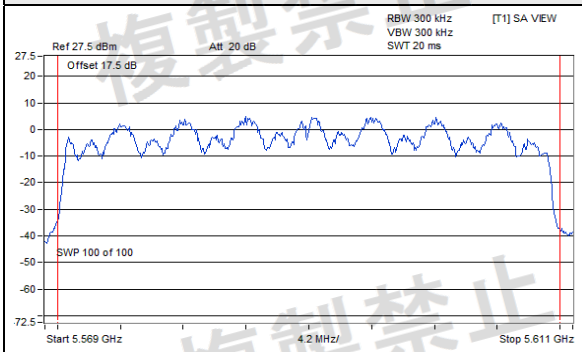
TX Channel Bandwidth 40 MHz Power -32.72 dBm



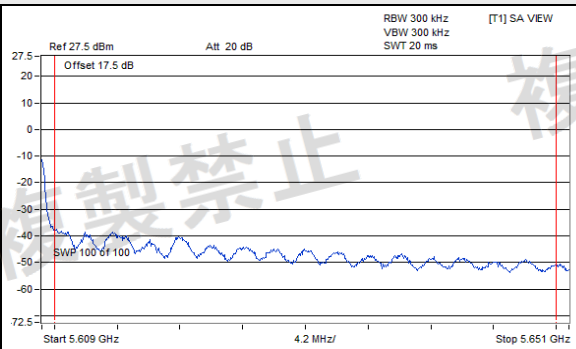
TX Channel Bandwidth 40 MHz Power -33.28 dBm

CH 102 (5510 MHz)

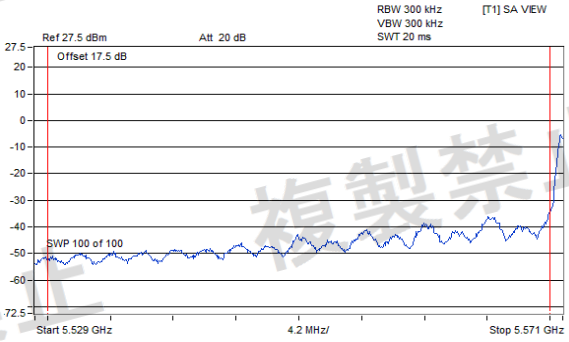
Vnormal



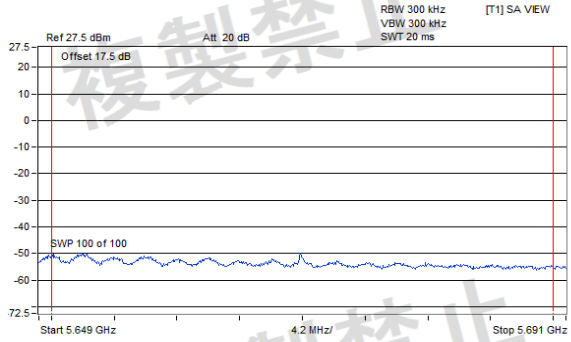
TX Channel Bandwidth 40 MHz Power 19.94 dBm



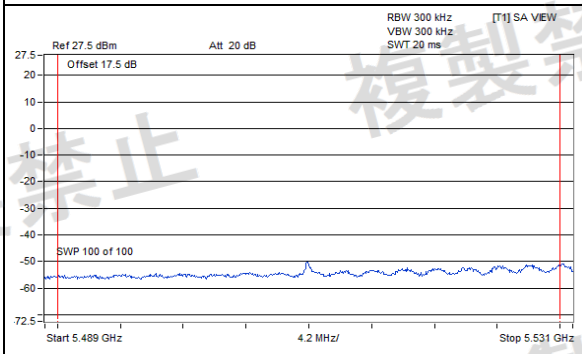
TX Channel Bandwidth 40 MHz Power -23.7 dBm



TX Channel Bandwidth 40 MHz Power -22.97 dBm



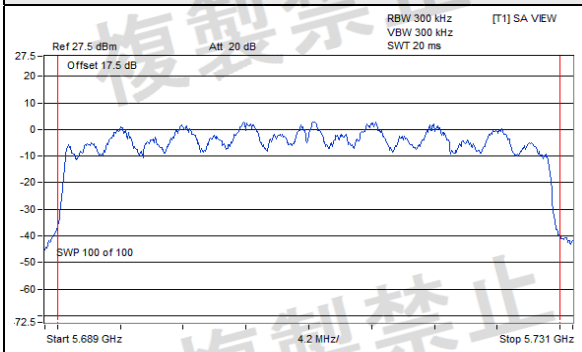
TX Channel Bandwidth 40 MHz Power -32.03 dBm



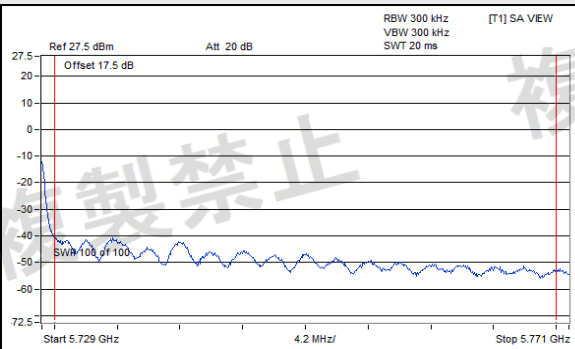
TX Channel Bandwidth 40 MHz Power -32.75 dBm

CH 118 (5590 MHz)

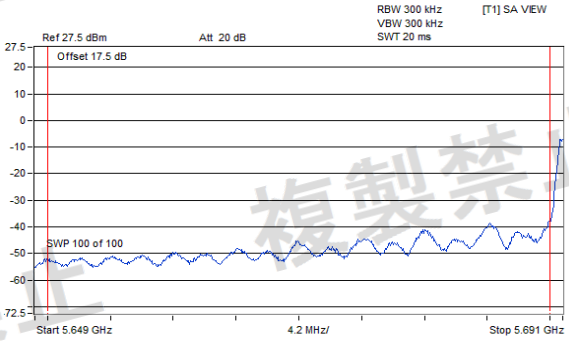
Vnormal



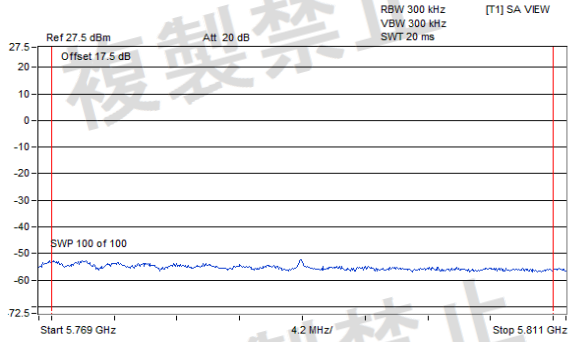
TX Channel Bandwidth 40 MHz Power 18.57 dBm



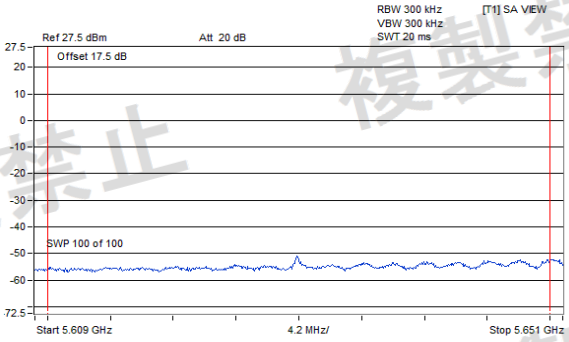
TX Channel Bandwidth 40 MHz Power -26.11 dBm



TX Channel Bandwidth 40 MHz Power -25.4 dBm



TX Channel Bandwidth 40 MHz Power -33.61 dBm



TX Channel Bandwidth 40 MHz Power -33.33 dBm

CH 142 (5710 MHz)

802.11ax (HE40) Sum of each Chain W56

TEST CHANNEL		CH 102 (5510 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	MIN. LIMIT (dBc)	RESULT
V_{normal}	Mean Power of Carrier (dBm)	19.31	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	36.90	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	39.17	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	58.19	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	58.42	40	PASS
TEST CHANNEL		CH 118 (5590 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	19.04	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	49.26	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	48.69	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	57.59	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	58.01	40	PASS
TEST CHANNEL		CH 142 (5710 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	18.03	-	-
	Mean Power +40MHz Distance of Carrier (dBc)	50.25	25	PASS
	Mean Power -40MHz Distance of Carrier (dBc)	50.48	25	PASS
	Mean Power +80MHz Distance of Carrier (dBc)	57.46	40	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	57.11	40	PASS

802.11ax (HE80) Chain 0 W52&53

Test Condition \ Test Channel		CH 42 (5210 MHz)	CH 58 (5290 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	8.36	8.67	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	30.88	35.03	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	35.42	31.69	25	PASS

802.11ax (HE80) Chain 1 W52&53

Test Condition \ Test Channel		CH 42 (5210 MHz)	CH 58 (5290 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	8.36	8.23	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	31.01	35.30	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	35.46	31.18	25	PASS

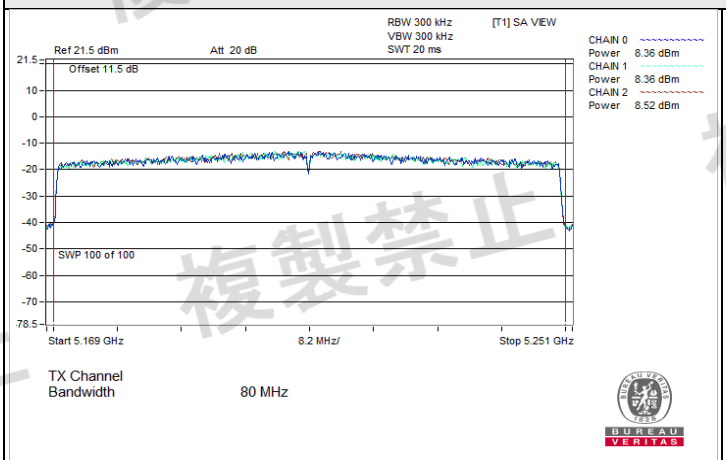
802.11ax (HE80) Chain 2 W52&53

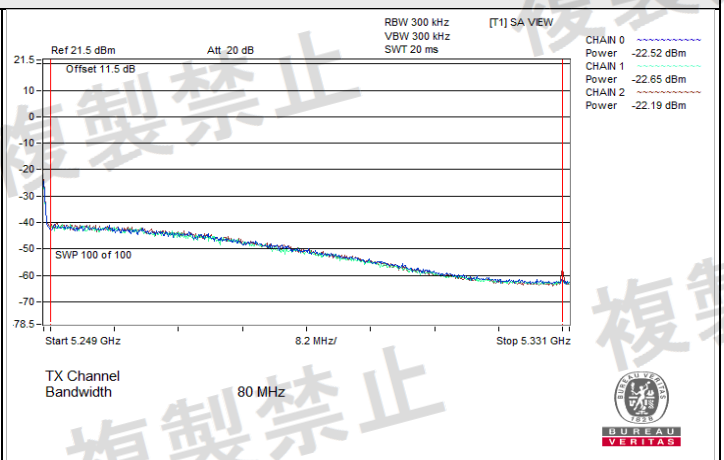
Test Condition \ Test Channel		CH 42 (5210 MHz)	CH 58 (5290 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	8.52	8.63	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	30.71	35.87	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	35.43	30.70	25	PASS

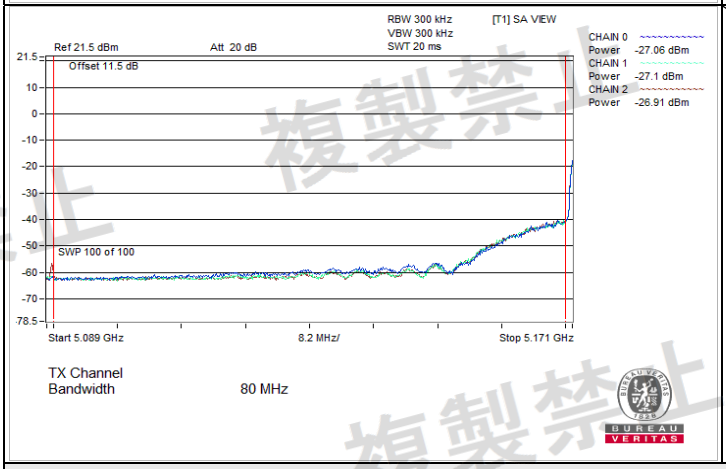
複製禁止

802.11ax (HE80) Graph W52&53

Vnormal

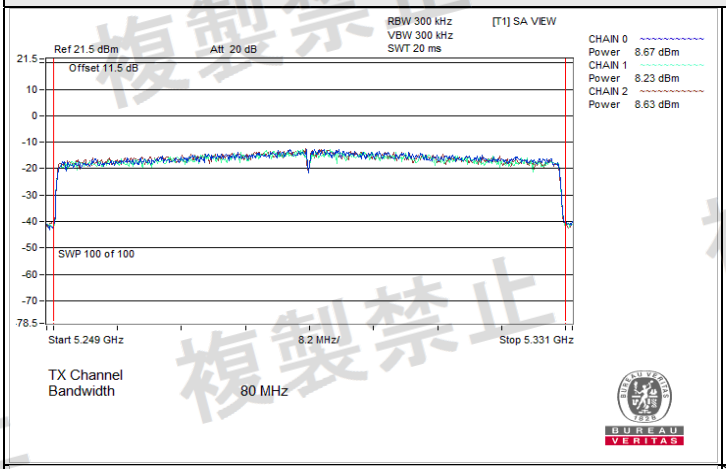


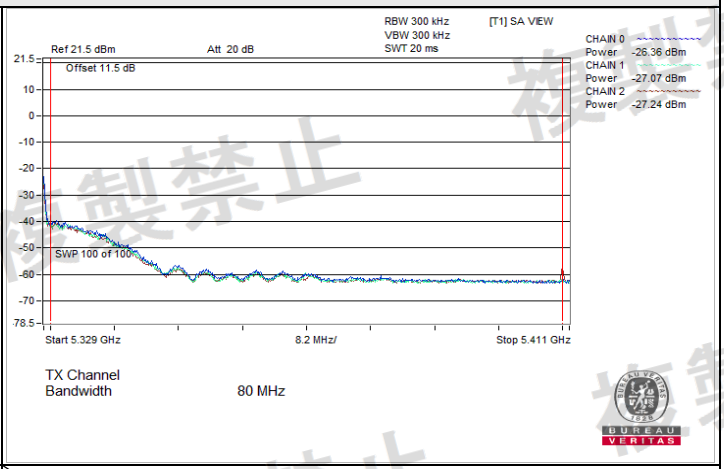


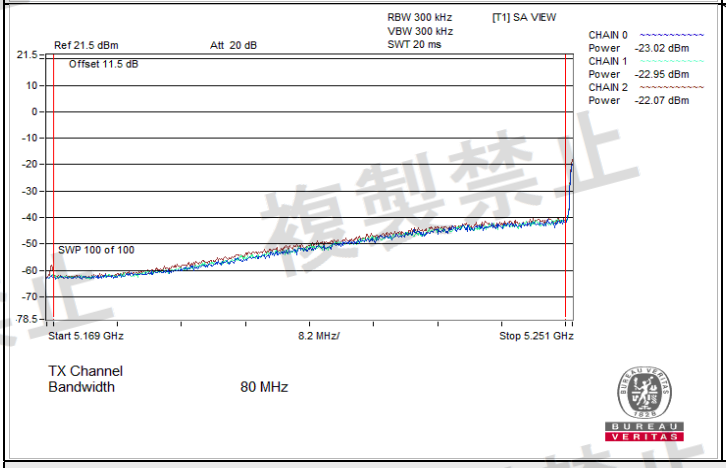


CH 42 (5210 MHz)

Vnormal





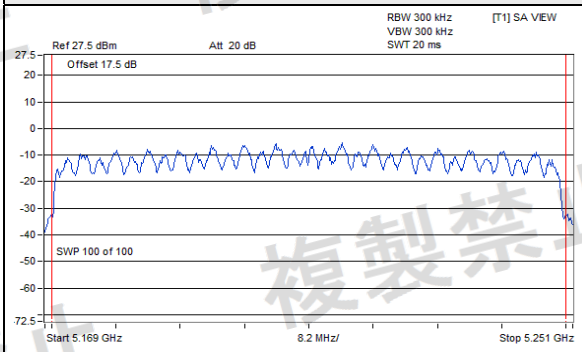


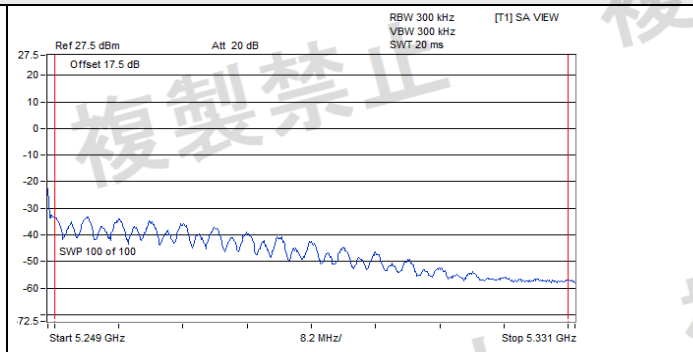
CH 58 (5290 MHz)

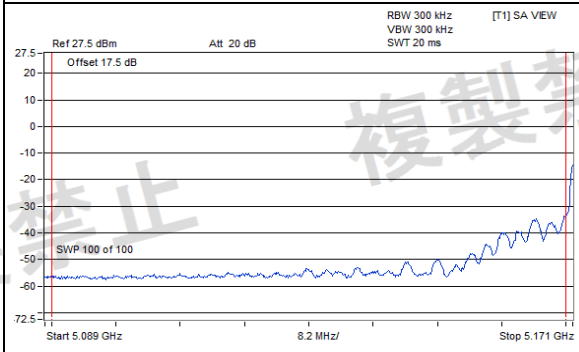
802.11ax (HE80) Use combiner W52&53

Test Condition \ Test Channel		CH 42 (5210 MHz)	CH 58 (5290 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	13.37	13.10	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	30.64	35.21	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	35.31	30.90	25	PASS

V_{normal}

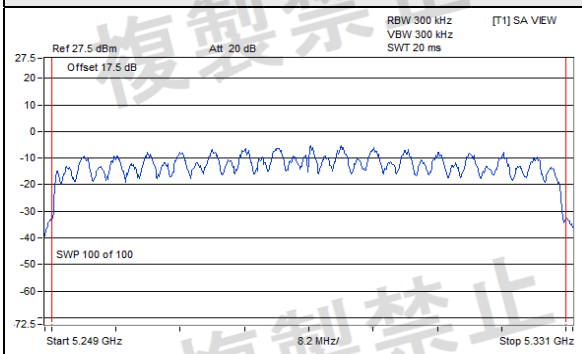




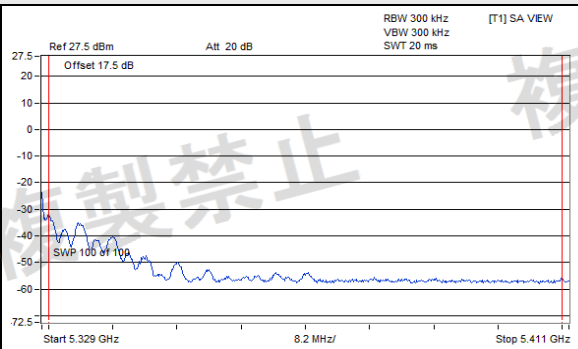


CH 42 (5210 MHz)

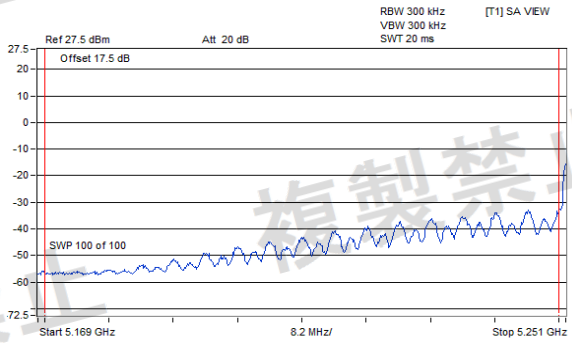
Vnormal



TX Channel Bandwidth 80 MHz Power 13.1 dBm



TX Channel Bandwidth 80 MHz Power -22.11 dBm



TX Channel Bandwidth 80 MHz Power -17.8 dBm

CH 58 (5290 MHz)

802.11ax (HE80) Sum of each Chain W52&53

TEST CHANNEL		CH 42 (5210 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	MIN. LIMIT (dBc)	RESULT
V_{normal}	Mean Power of Carrier (dBm)	13.19	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	35.64	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	40.21	25	PASS
TEST CHANNEL		CH 58 (5290 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	13.29	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	40.19	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	35.98	25	PASS

802.11ax (HE80) Chain 0 W56

Test Condition \ Test Channel		CH 106 (5530 MHz)	CH 122 (5610 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.15	15.03	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	32.20	37.35	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	35.16	41.41	25	PASS

Test Condition \ Test Channel		CH 138 (5690 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.24	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	38.89	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	41.11	25	PASS

802.11ax (HE80) Chain 1 W56

Test Condition \ Test Channel		CH 106 (5530 MHz)	CH 122 (5610 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.01	15.29	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	31.66	42.43	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	35.70	43.26	25	PASS

Test Condition \ Test Channel		CH 138 (5690 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	14.16	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	43.85	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	44.07	25	PASS

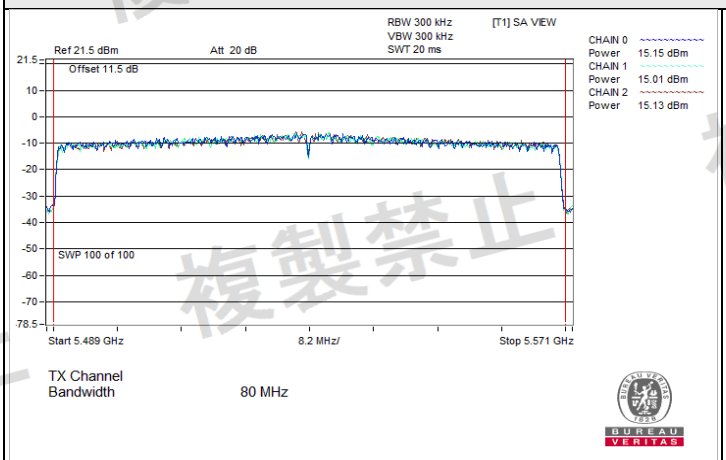
802.11ax (HE80) Chain 2 W56

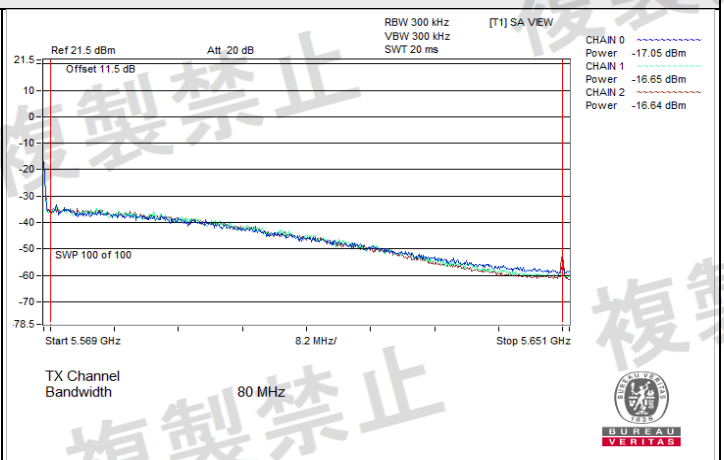
Test Condition \ Test Channel		CH 106 (5530 MHz)	CH 122 (5610 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.13	15.40	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	31.77	43.26	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	36.09	40.93	25	PASS

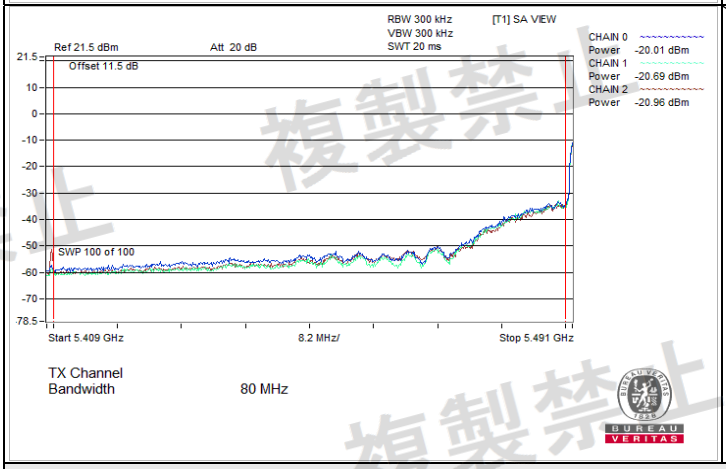
Test Condition \ Test Channel		CH 138 (5690 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	15.53	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	43.28	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	42.73	25	PASS

802.11ax (HE80) Graph W56

Vnormal

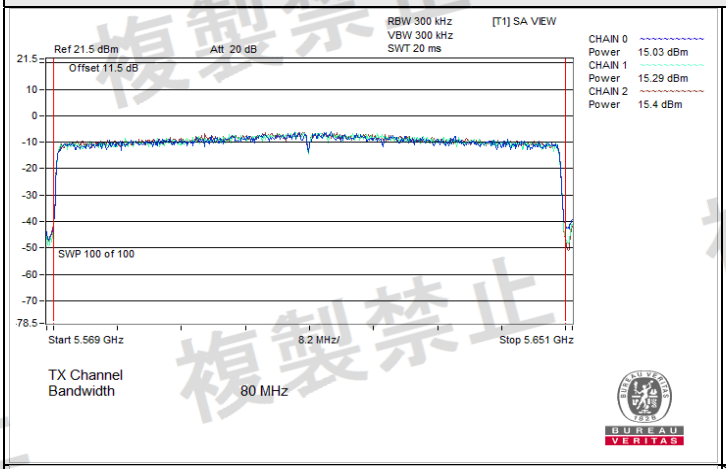


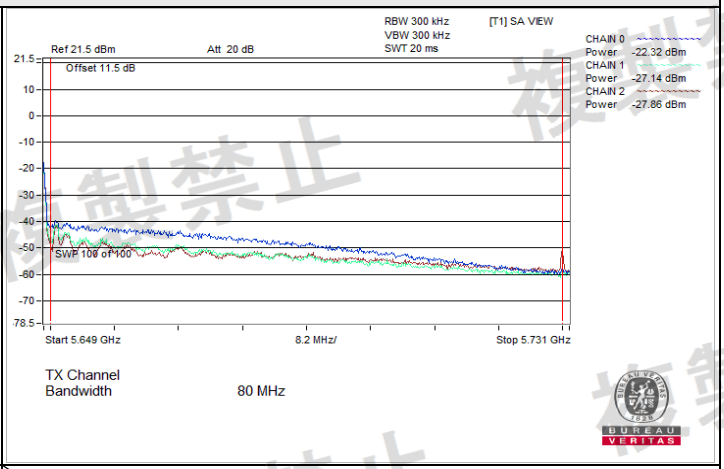


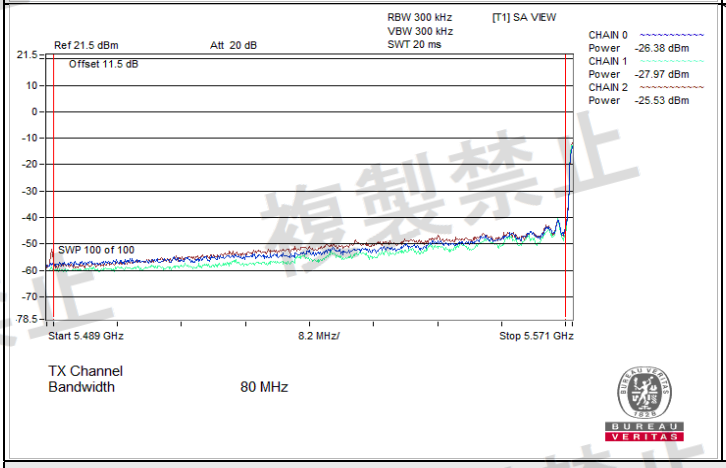


CH 106 (5530 MHz)

Vnormal

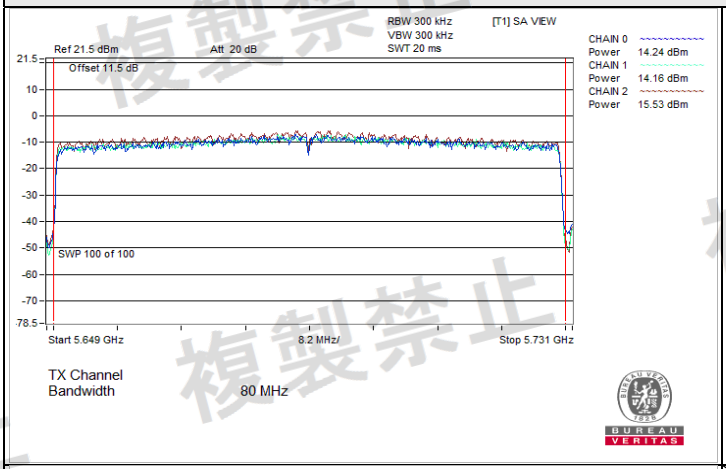


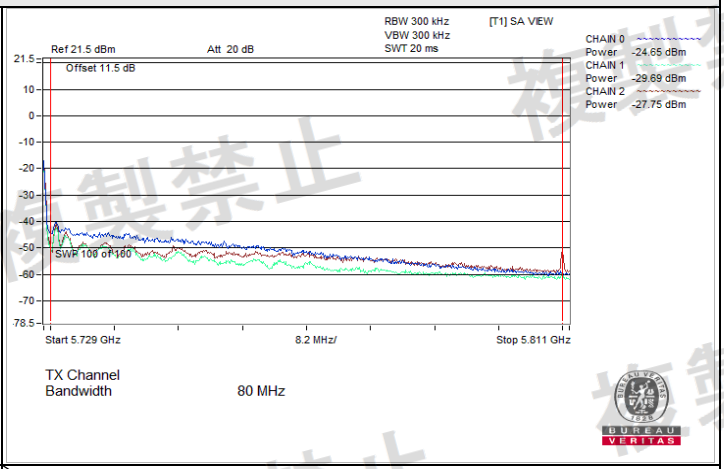


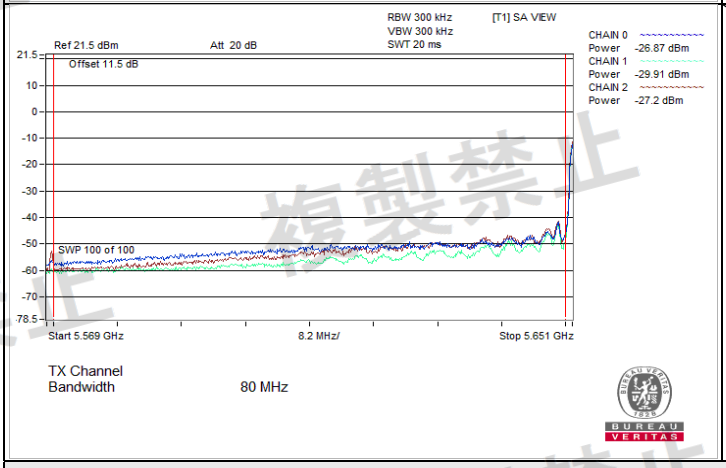


CH 122 (5610 MHz)

Vnormal







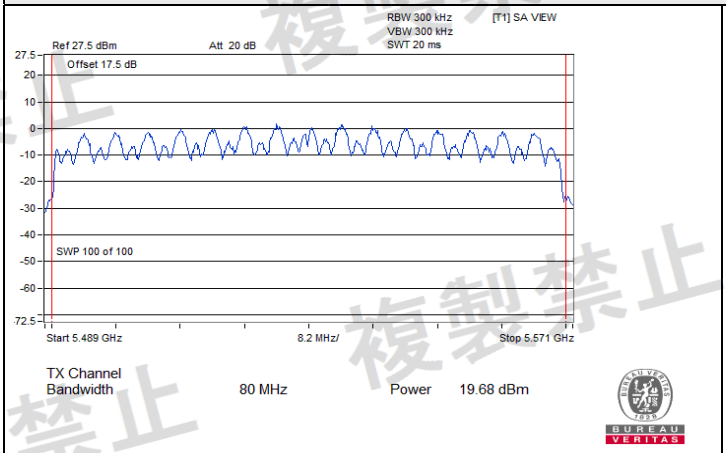
CH 138 (5690 MHz)

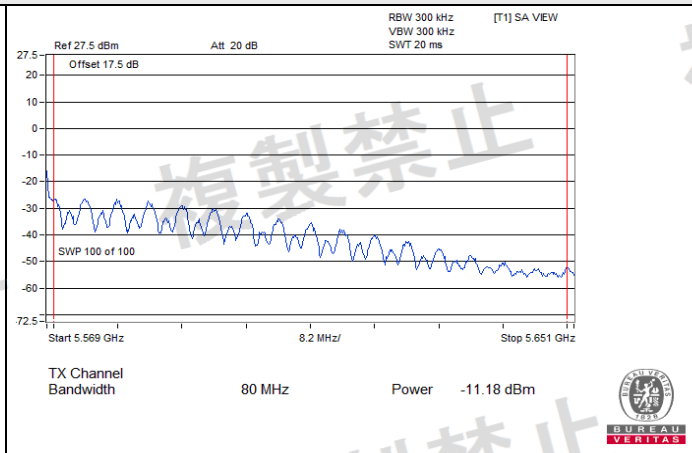
802.11ax (HE80) Use combiner W56

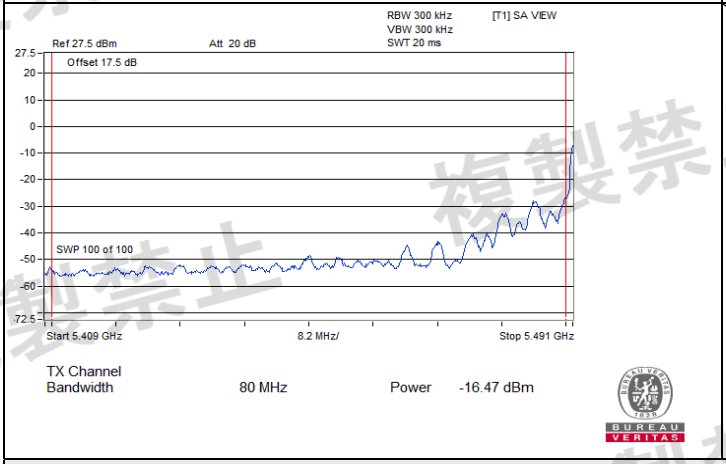
Test Condition \ Test Channel		CH 106 (5530 MHz)	CH 122 (5610 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	19.68	20.32	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	30.86	42.65	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	36.15	41.74	25	PASS

Test Condition \ Test Channel		CH 138 (5690 MHz)	Min. Limit (dBc)	Result
V_{normal}	Mean Power of Carrier (dBm)	19.19	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	43.33	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	42.70	25	PASS

V_{normal}

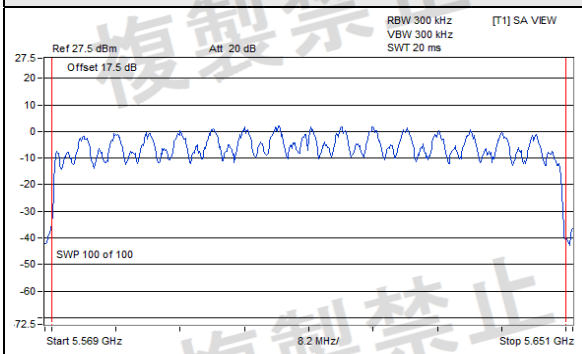




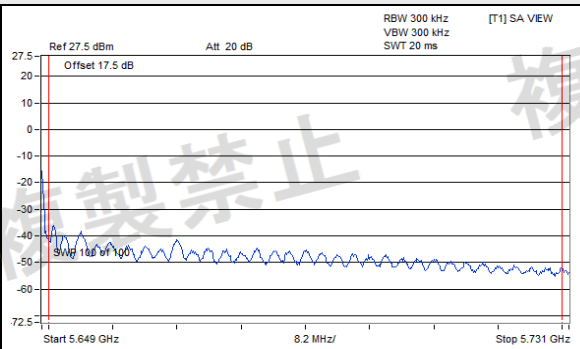


CH 106 (5530 MHz)

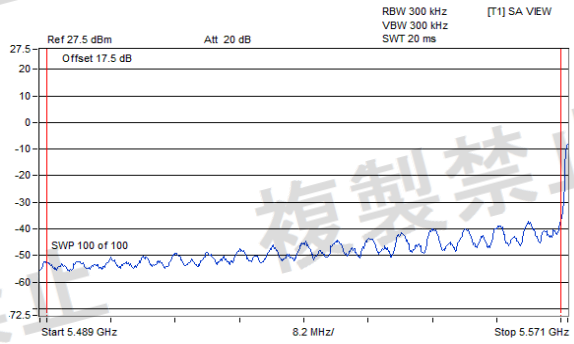
Vnormal



TX Channel Bandwidth 80 MHz Power 20.32 dBm



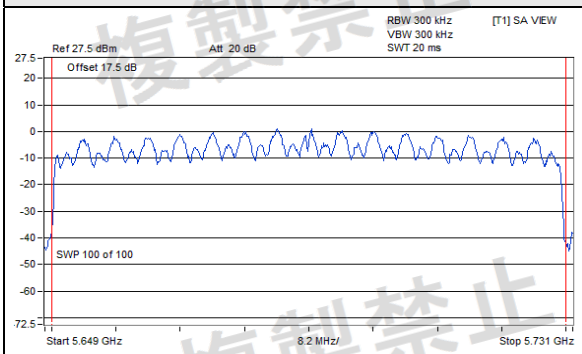
TX Channel Bandwidth 80 MHz Power -22.33 dBm



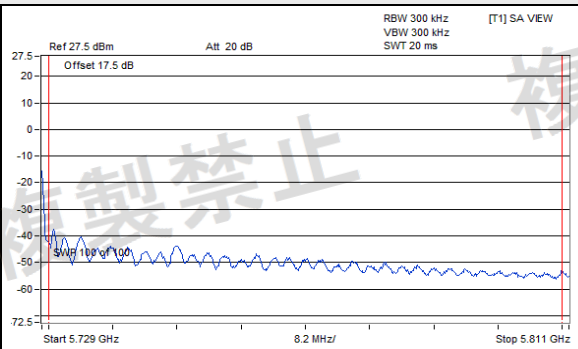
TX Channel Bandwidth 80 MHz Power -21.42 dBm

CH 122 (5610 MHz)

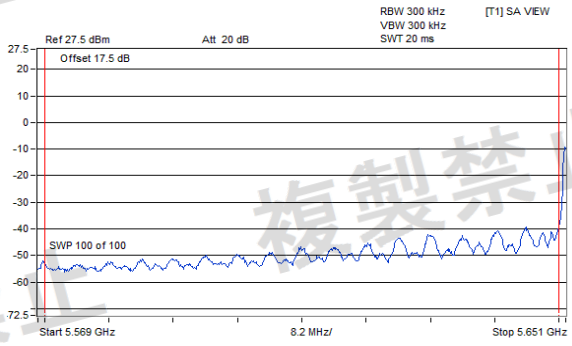
Vnormal



TX Channel Bandwidth 80 MHz Power 19.19 dBm



TX Channel Bandwidth 80 MHz Power -24.14 dBm



TX Channel Bandwidth 80 MHz Power -23.51 dBm

CH 138 (5690 MHz)

802.11ax (HE80) Sum of each Chain W56

TEST CHANNEL		CH 106 (5530 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	MIN. LIMIT (dBc)	RESULT
V_{normal}	Mean Power of Carrier (dBm)	19.87	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	36.65	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	40.44	25	PASS
TEST CHANNEL		CH 122 (5610 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	20.01	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	46.45	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	46.76	25	PASS
TEST CHANNEL		CH 138 (5690 MHz)		
V_{normal}	Mean Power of Carrier (dBm)	19.46	-	-
	Mean Power +80MHz Distance of Carrier (dBc)	47.27	25	PASS
	Mean Power -80MHz Distance of Carrier (dBc)	47.57	25	PASS

7.7 Burst Length

Environmental Conditions:	25°C, 65% RH	Tested By:	Wayne Lin

802.11a Chain 0

TEST CONDITION	Burst Length (ms)			
	CH 36 (5180 MHz)	**CH 48 (5240 MHz)**	**CH 52 (5260 MHz)**	**CH 64 (5320 MHz)**
V_{normal}	3.10	3.10	3.10	3.10
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 100 (5500 MHz)	**CH 120 (5600 MHz)**	**CH 144 (5720 MHz)**
V_{normal}	3.10	3.10	3.10
Limit	≦8 ms		

802.11a Chain 1

TEST CONDITION	Burst Length (ms)			
	CH 36 (5180 MHz)	**CH 48 (5240 MHz)**	**CH 52 (5260 MHz)**	**CH 64 (5320 MHz)**
V_{normal}	3.10	3.10	3.10	3.10
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 100 (5500 MHz)	**CH 120 (5600 MHz)**	**CH 144 (5720 MHz)**
V_{normal}	3.10	3.10	3.10
Limit	≦8 ms		

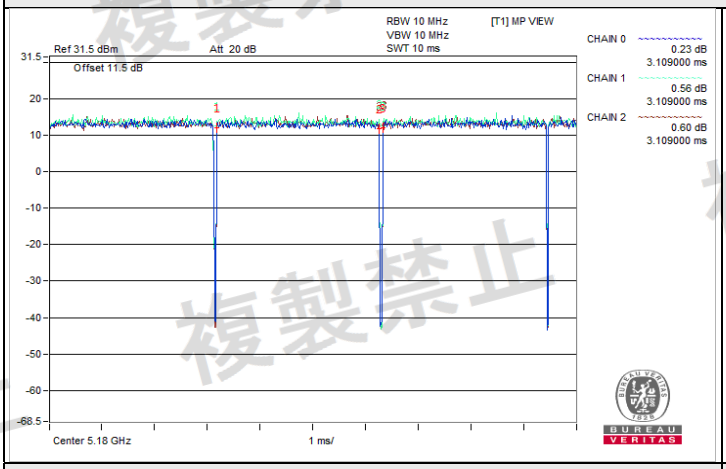
802.11a Chain 2

TEST CONDITION	Burst Length (ms)			
	CH 36 (5180 MHz)	**CH 48 (5240 MHz)**	**CH 52 (5260 MHz)**	**CH 64 (5320 MHz)**
V_{normal}	3.10	3.10	3.10	3.10
Limit	≦8 ms			

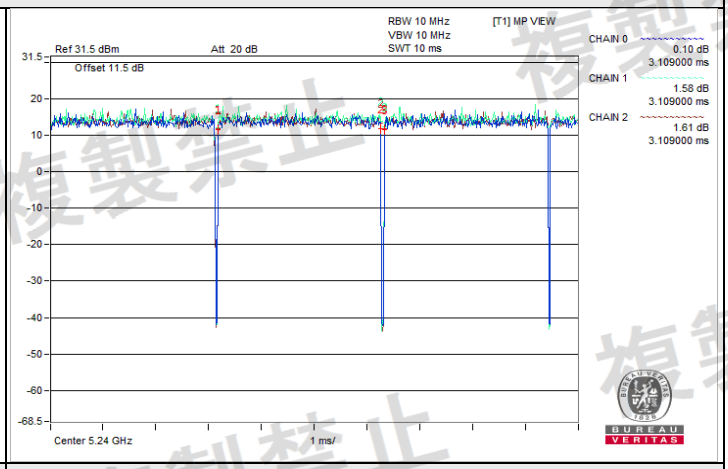
TEST CONDITION	Burst Length (ms)		
	CH 100 (5500 MHz)	**CH 120 (5600 MHz)**	**CH 144 (5720 MHz)**
V_{normal}	3.10	3.10	3.10
Limit	≦8 ms		

802.11a Graph

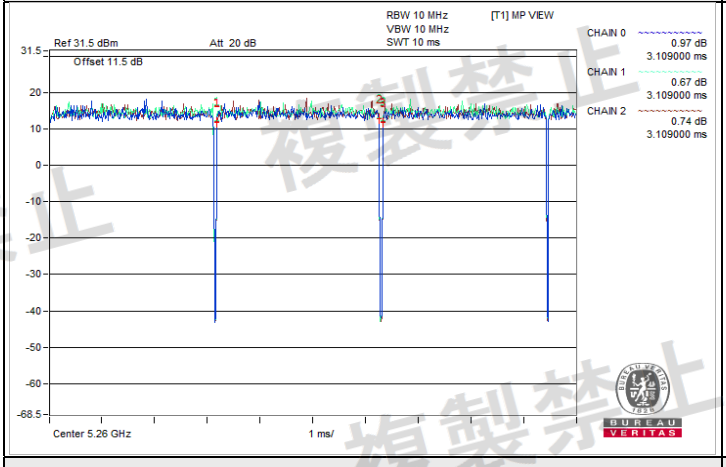
Vnormal



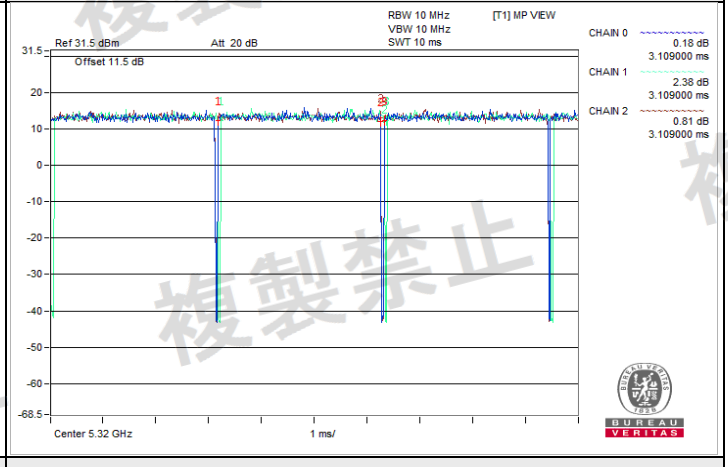
CH 36 (5180 MHz)



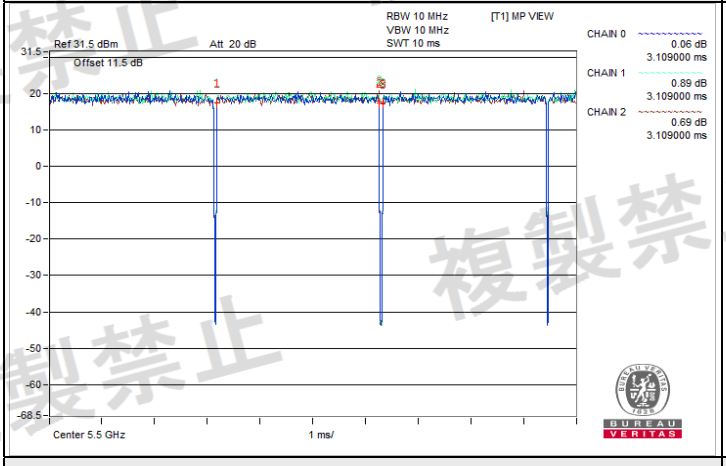
CH 48 (5240 MHz)



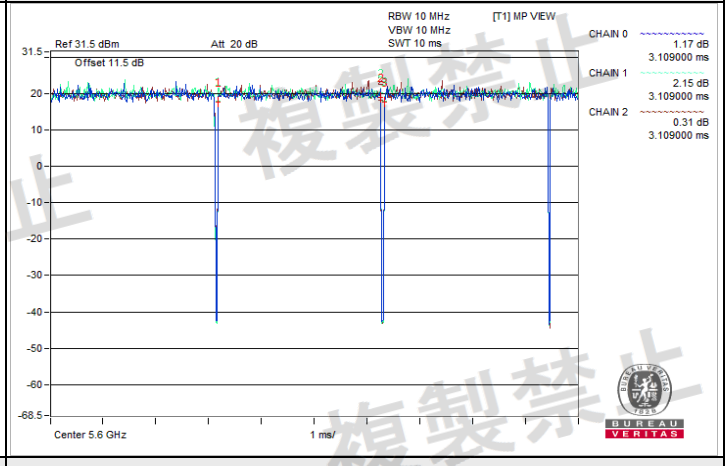
CH 52 (5260 MHz)



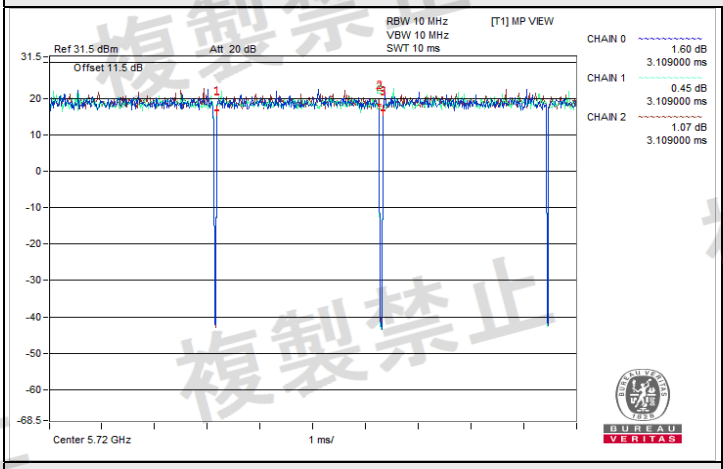
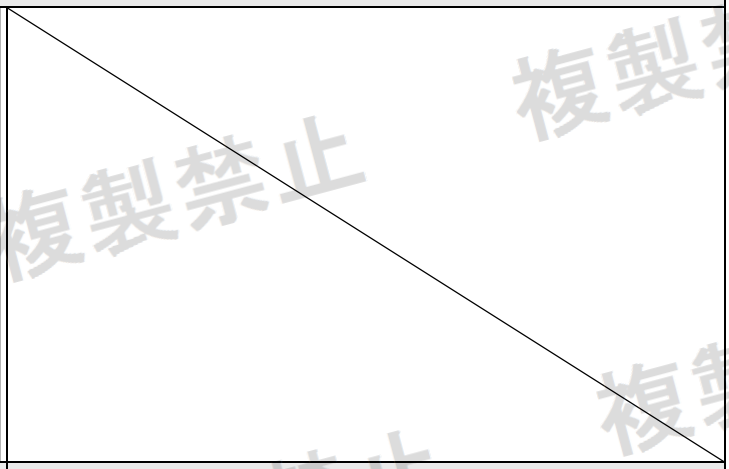
CH 64 (5320 MHz)



CH 100 (5500 MHz)



CH 120 (5600 MHz)

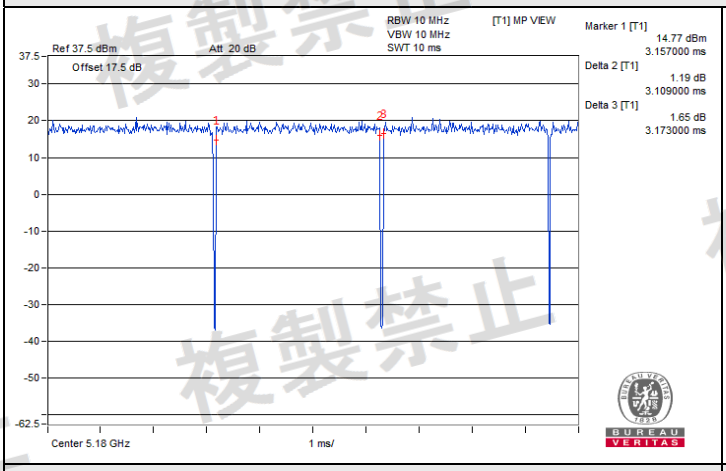
V_{normal}	
	
CH 144 (5720 MHz)	

802.11a Use combiner

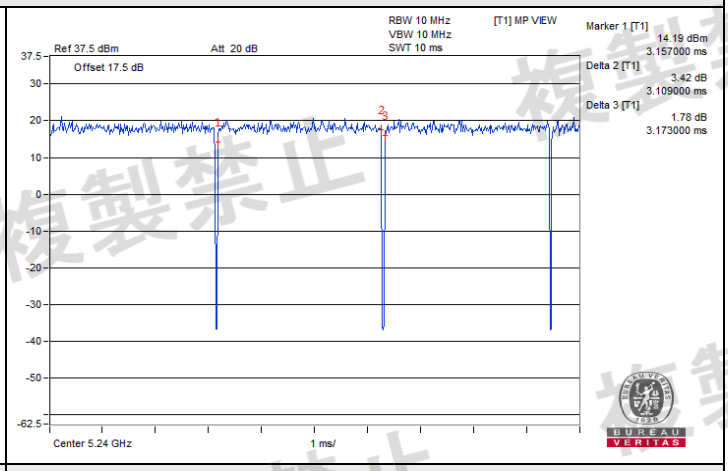
TEST CONDITION	Burst Length (ms)			
	CH 36 (5180 MHz)	**CH 48 (5240 MHz)**	**CH 52 (5260 MHz)**	**CH 64 (5320 MHz)**
V_{normal}	3.10	3.10	3.10	3.10
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 100 (5500 MHz)	**CH 120 (5600 MHz)**	**CH 144 (5720 MHz)**
V_{normal}	3.10	3.10	3.10
Limit	≦8 ms		

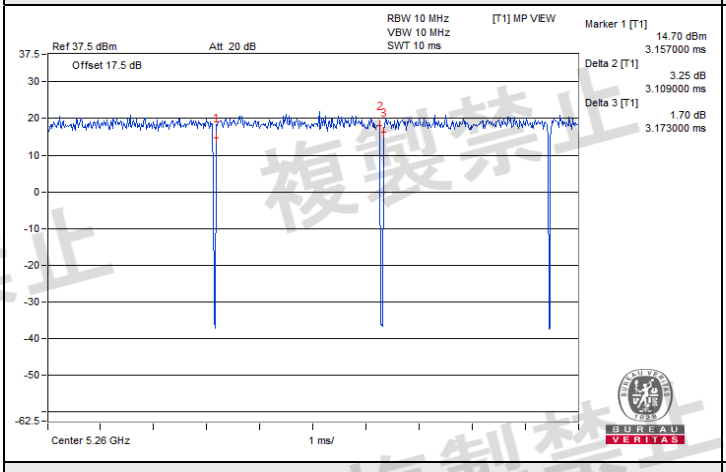
Vnormal



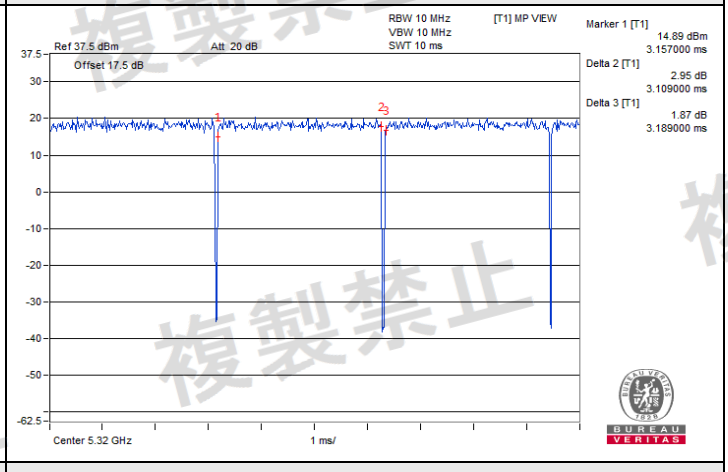
CH 36 (5180 MHz)



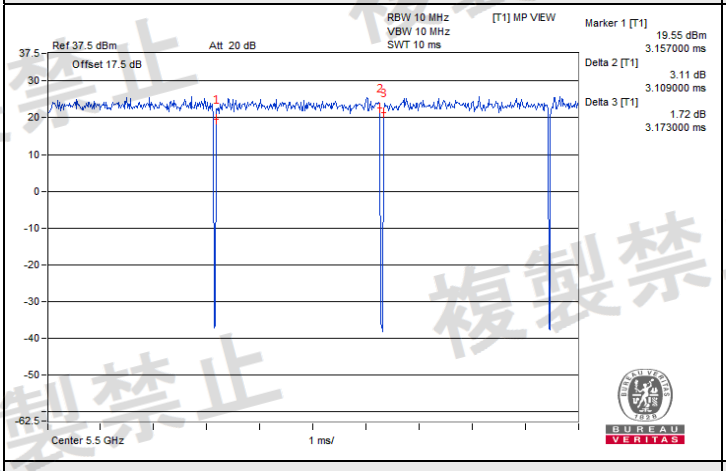
CH 48 (5240 MHz)



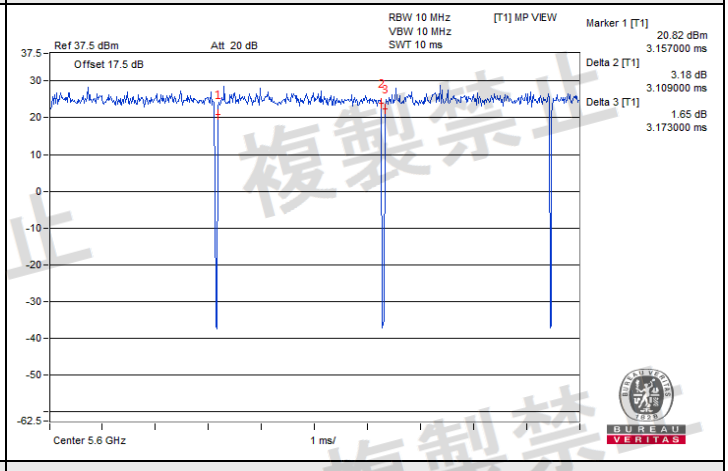
CH 52 (5260 MHz)



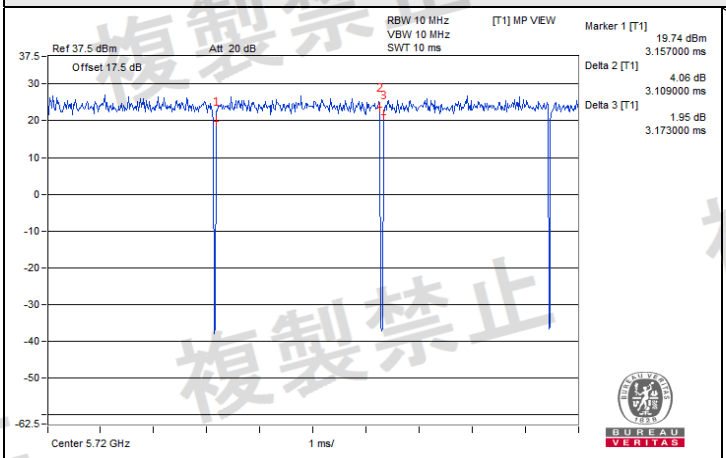
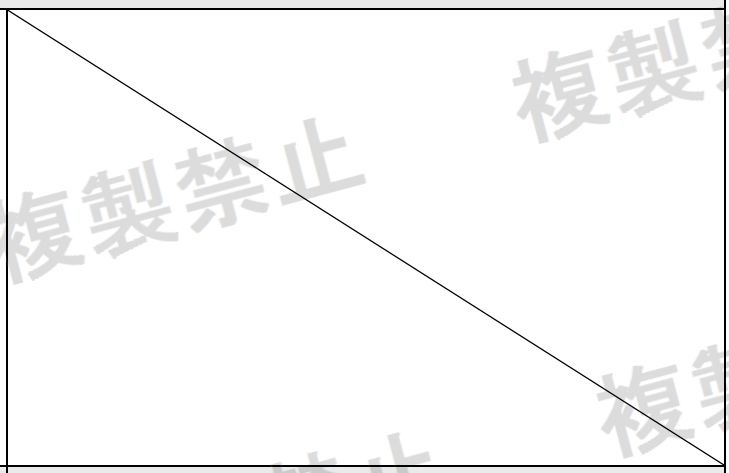
CH 64 (5320 MHz)



CH 100 (5500 MHz)



CH 120 (5600 MHz)

V_{normal}	
	
CH 144 (5720 MHz)	

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802.11ac (VHT20) Chain 0

TEST CONDITION	Burst Length (ms)			
	CH 36 (5180 MHz)	**CH 48 (5240 MHz)**	**CH 52 (5260 MHz)**	**CH 64 (5320 MHz)**
V_{normal}	5.89	5.82	5.97	5.97
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 100 (5500 MHz)	**CH 120 (5600 MHz)**	**CH 144 (5720 MHz)**
V_{normal}	5.97	5.97	5.97
Limit	≦8 ms		

802.11ac (VHT20) Chain 1

TEST CONDITION	Burst Length (ms)			
	CH 36 (5180 MHz)	**CH 48 (5240 MHz)**	**CH 52 (5260 MHz)**	**CH 64 (5320 MHz)**
V_{normal}	5.89	5.97	5.78	5.93
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 100 (5500 MHz)	**CH 120 (5600 MHz)**	**CH 144 (5720 MHz)**
V_{normal}	5.82	5.93	5.89
Limit	≦8 ms		

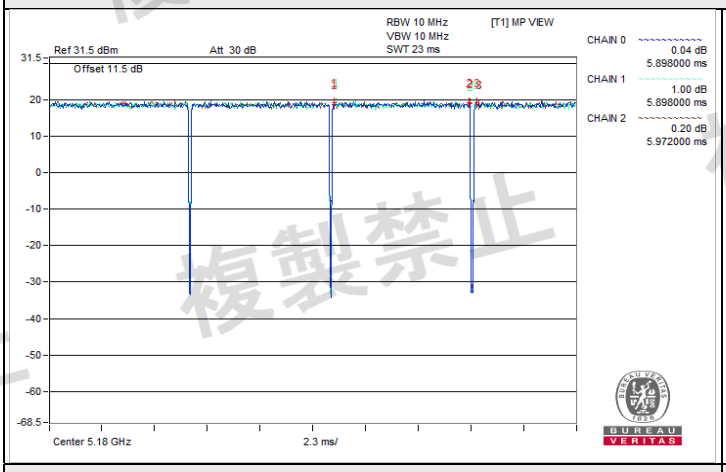
802.11ac (VHT20) Chain 2

TEST CONDITION	Burst Length (ms)			
	CH 36 (5180 MHz)	**CH 48 (5240 MHz)**	**CH 52 (5260 MHz)**	**CH 64 (5320 MHz)**
V_{normal}	5.97	5.93	5.89	5.97
Limit	≦8 ms			

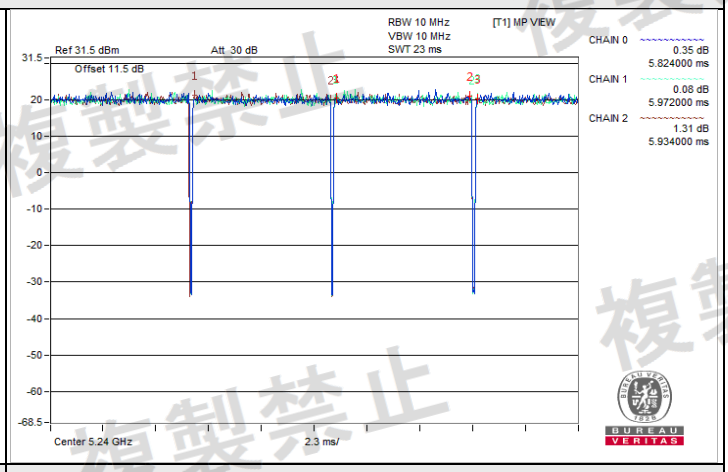
TEST CONDITION	Burst Length (ms)		
	CH 100 (5500 MHz)	**CH 120 (5600 MHz)**	**CH 144 (5720 MHz)**
V_{normal}	5.93	5.97	5.93
Limit	≦8 ms		

802.11ac (VHT20) Graph

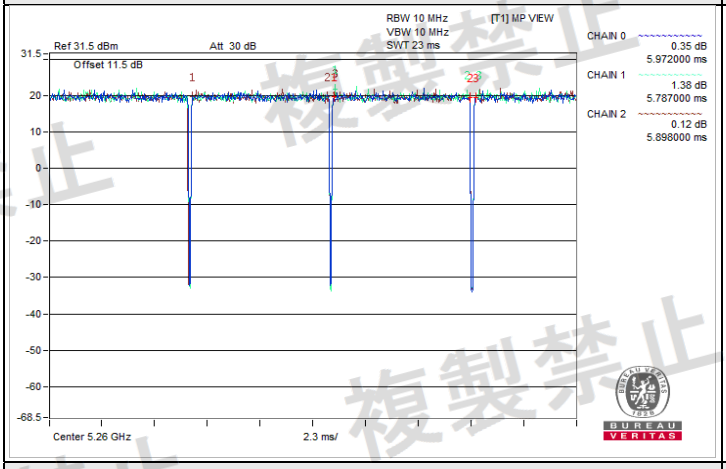
Vnormal



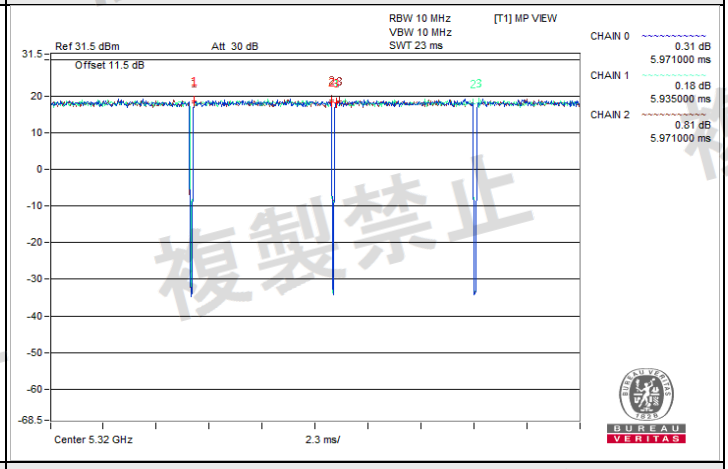
CH 36 (5180 MHz)



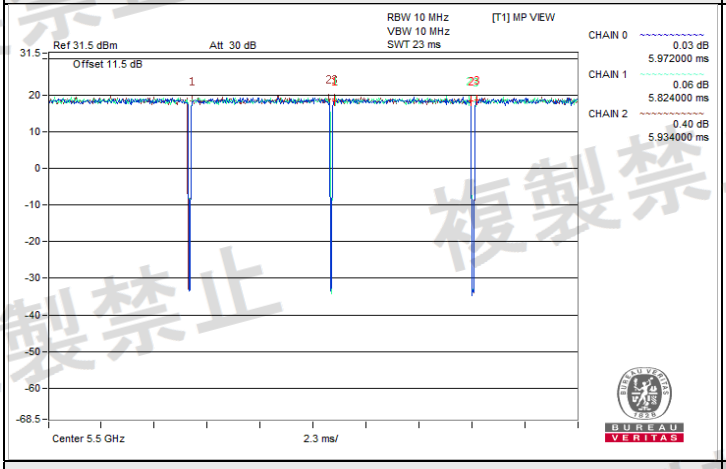
CH 48 (5240 MHz)



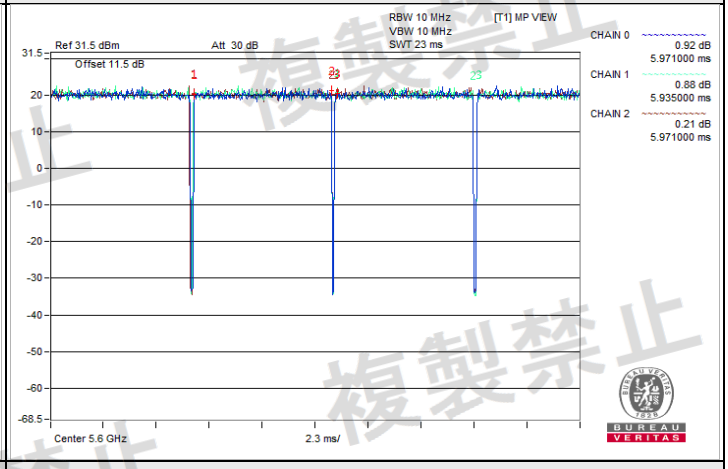
CH 52 (5260 MHz)



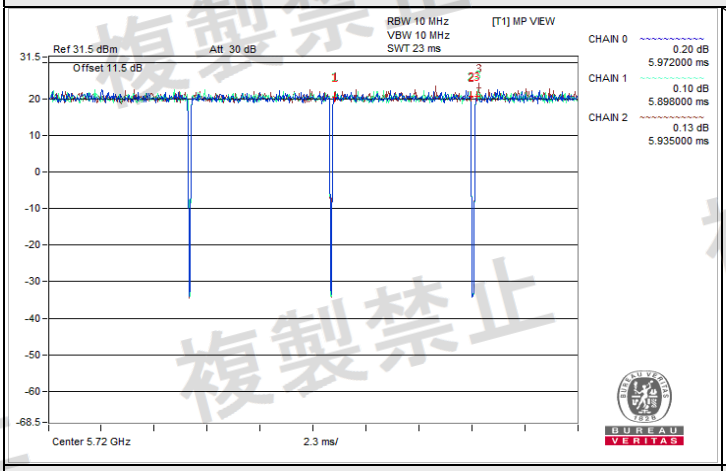
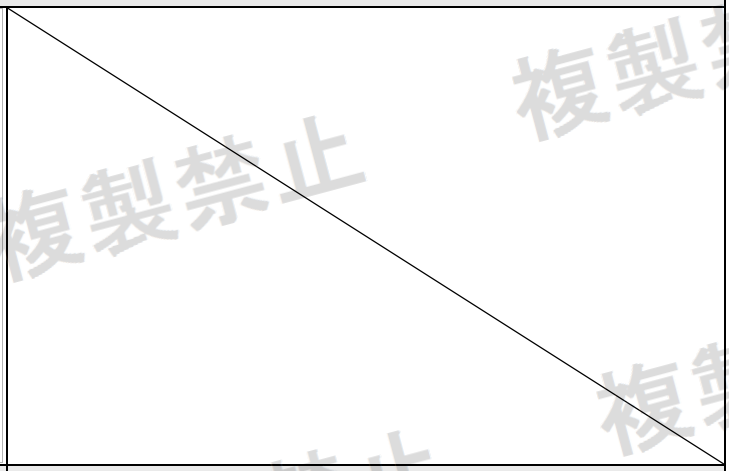
CH 64 (5320 MHz)



CH 100 (5500 MHz)



CH 120 (5600 MHz)

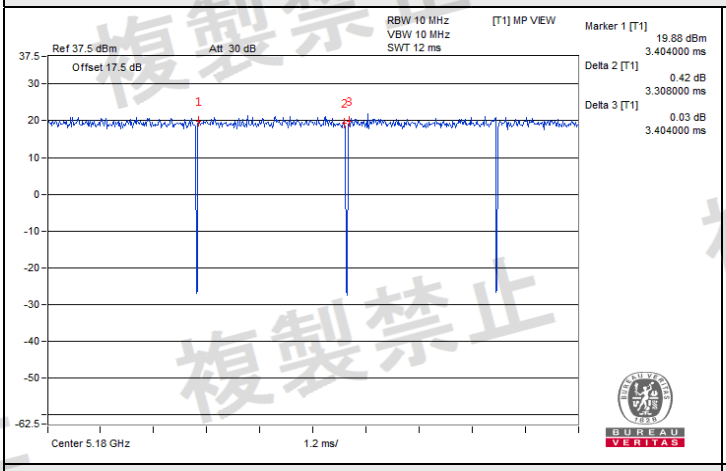
V_{normal}	
	
CH 144 (5720 MHz)	

802.11ac (VHT20) Use combiner

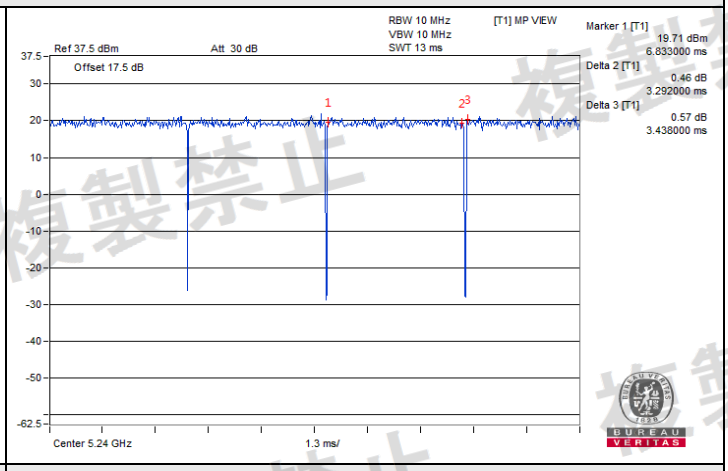
TEST CONDITION	Burst Length (ms)			
	CH 36 (5180 MHz)	**CH 48 (5240 MHz)**	**CH 52 (5260 MHz)**	**CH 64 (5320 MHz)**
V_{normal}	3.30	3.29	3.33	3.29
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 100 (5500 MHz)	**CH 120 (5600 MHz)**	**CH 144 (5720 MHz)**
V_{normal}	3.33	3.31	3.28
Limit	≦8 ms		

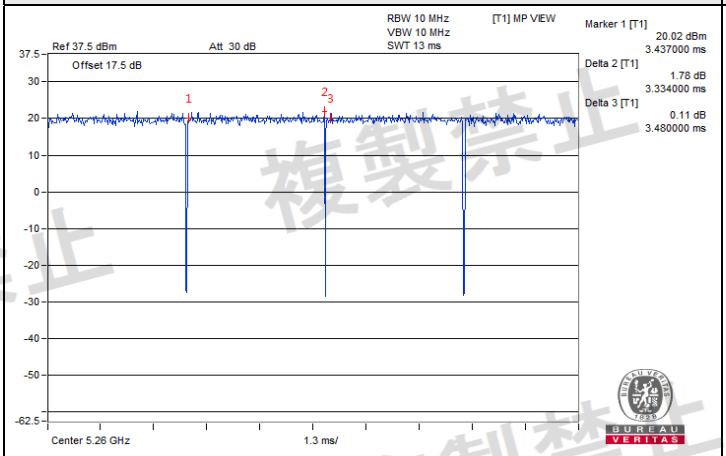
Vnormal



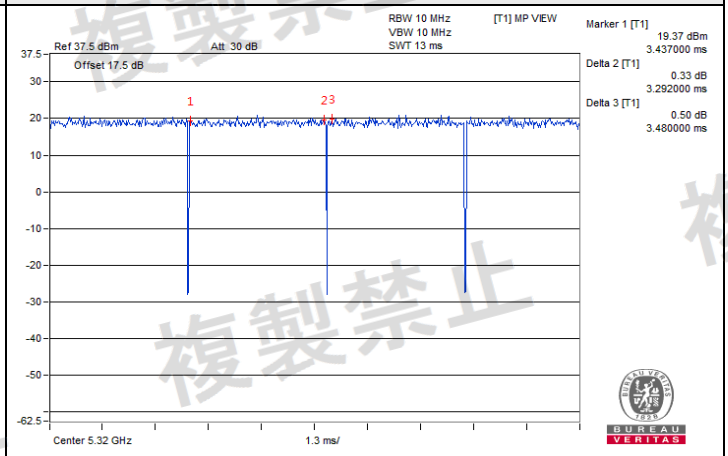
CH 36 (5180 MHz)



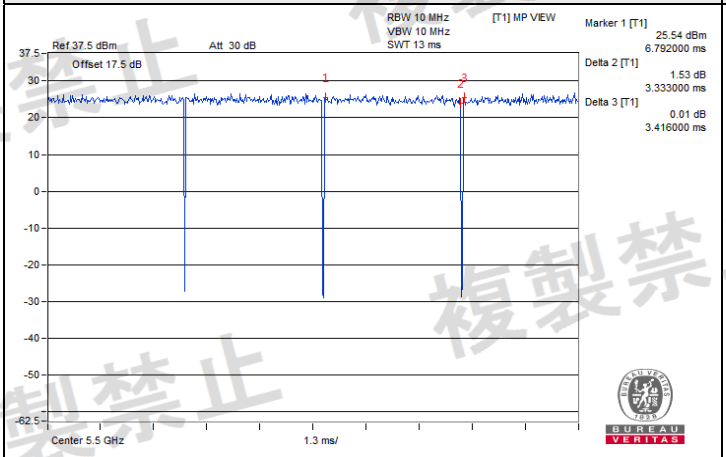
CH 48 (5240 MHz)



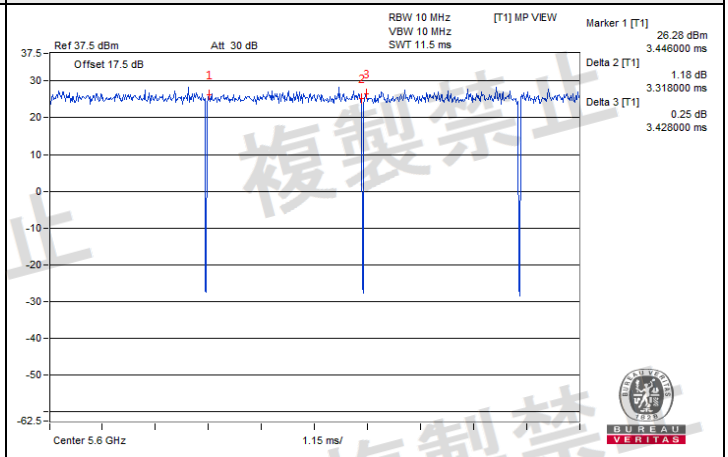
CH 52 (5260 MHz)



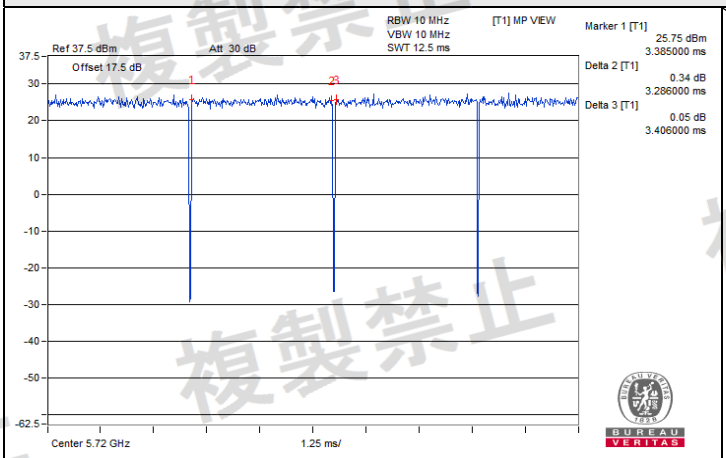
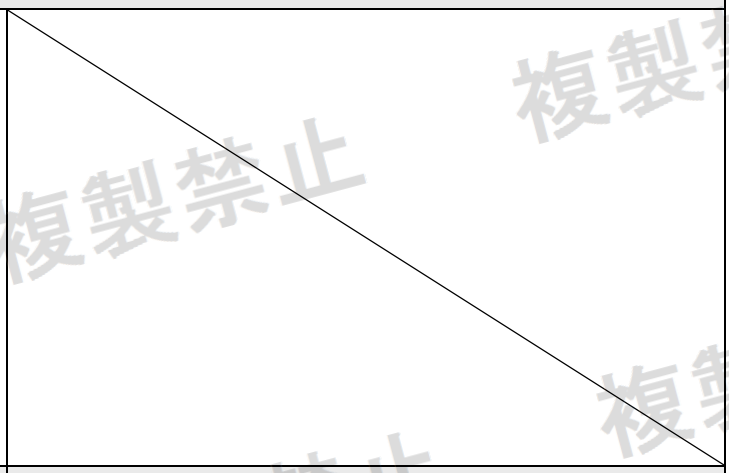
CH 64 (5320 MHz)



CH 100 (5500 MHz)



CH 120 (5600 MHz)

V_{normal}	
	
CH 144 (5720 MHz)	

802.11ac (VHT40) Chain 0

TEST CONDITION	Burst Length (ms)			
	CH 38 (5190 MHz)	**CH 46 (5230 MHz)**	**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**
V_{normal}	5.78	5.78	5.67	5.71
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 102 (5510 MHz)	**CH 118 (5590 MHz)**	**CH 142 (5710 MHz)**
V_{normal}	5.71	5.78	5.78
Limit	≦8 ms		

802.11ac (VHT40) Chain 1

TEST CONDITION	Burst Length (ms)			
	CH 38 (5190 MHz)	**CH 46 (5230 MHz)**	**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**
V_{normal}	5.78	5.75	5.78	5.78
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 102 (5510 MHz)	**CH 118 (5590 MHz)**	**CH 142 (5710 MHz)**
V_{normal}	5.75	5.75	5.75
Limit	≦8 ms		

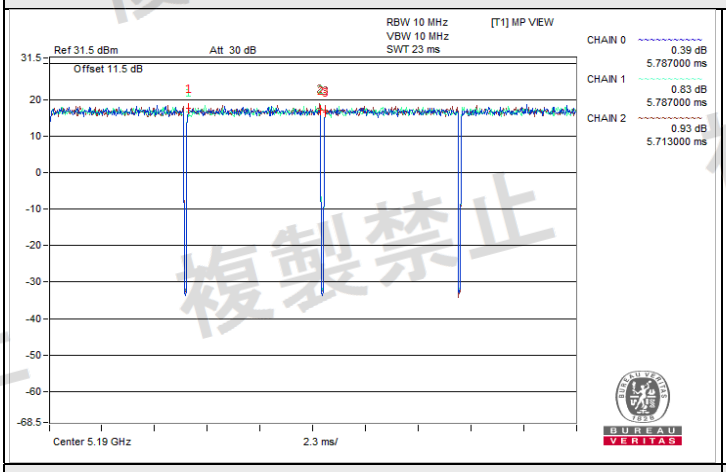
802.11ac (VHT40) Chain 2

TEST CONDITION	Burst Length (ms)			
	CH 38 (5190 MHz)	**CH 46 (5230 MHz)**	**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**
V_{normal}	5.71	5.71	5.75	5.78
Limit	≦8 ms			

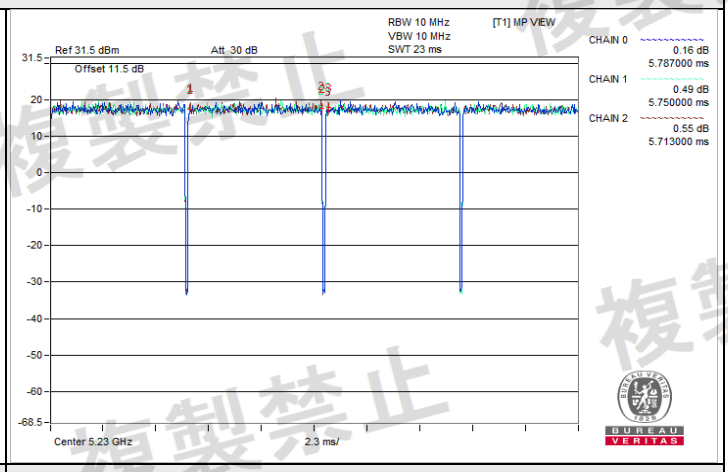
TEST CONDITION	Burst Length (ms)		
	CH 102 (5510 MHz)	**CH 118 (5590 MHz)**	**CH 142 (5710 MHz)**
V_{normal}	5.71	5.75	5.75
Limit	≦8 ms		

802.11ac (VHT40) Graph

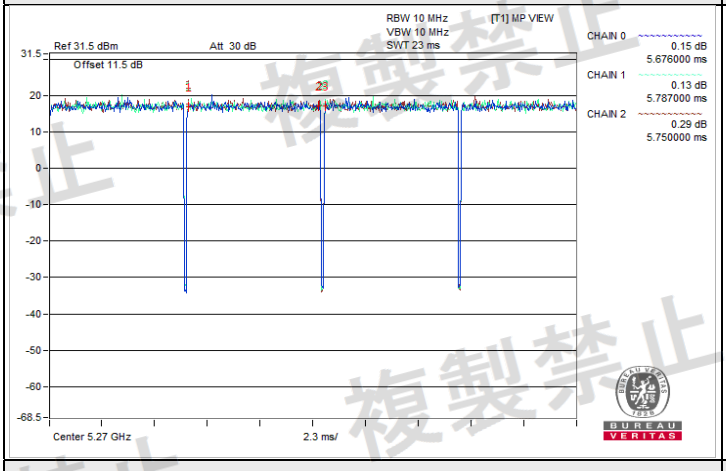
Vnormal



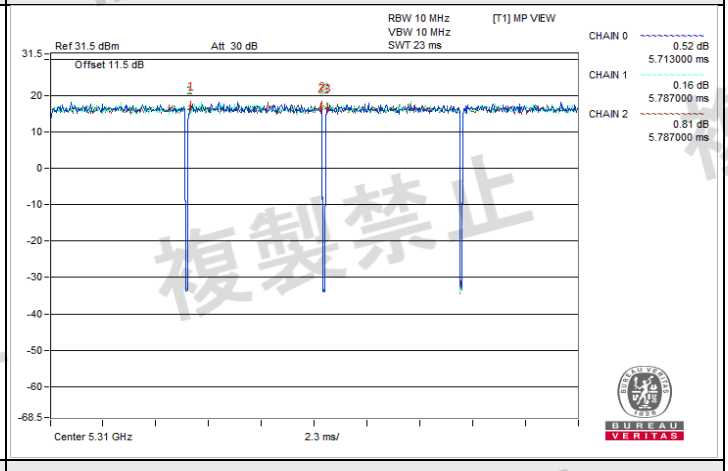
CH 38 (5190 MHz)



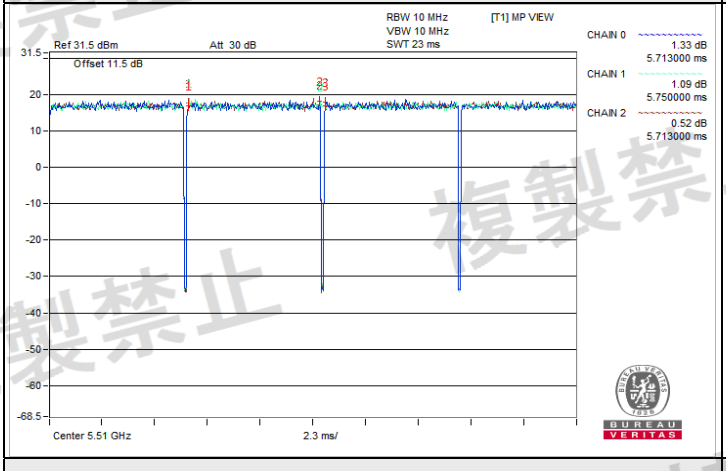
CH 46 (5230 MHz)



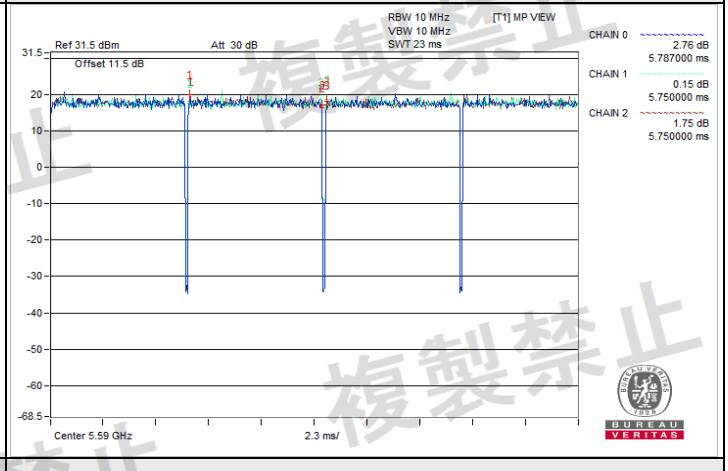
CH 54 (5270 MHz)



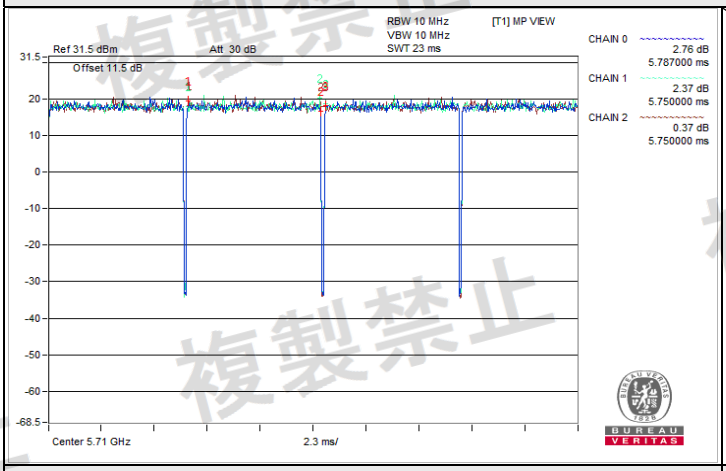
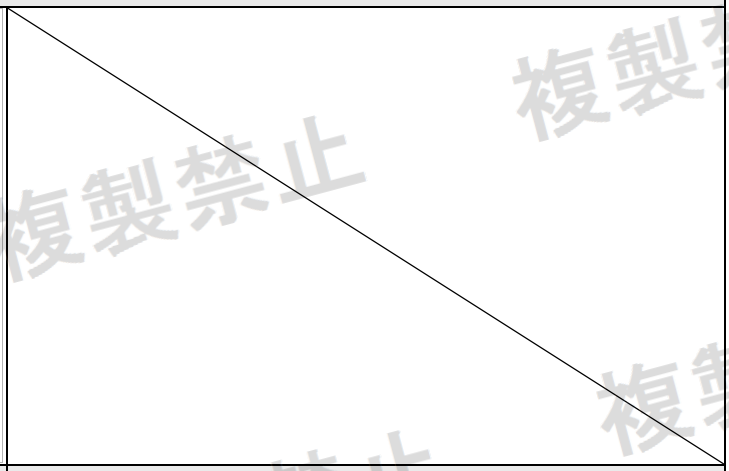
CH 62 (5310 MHz)



CH 102 (5510 MHz)



CH 118 (5590 MHz)

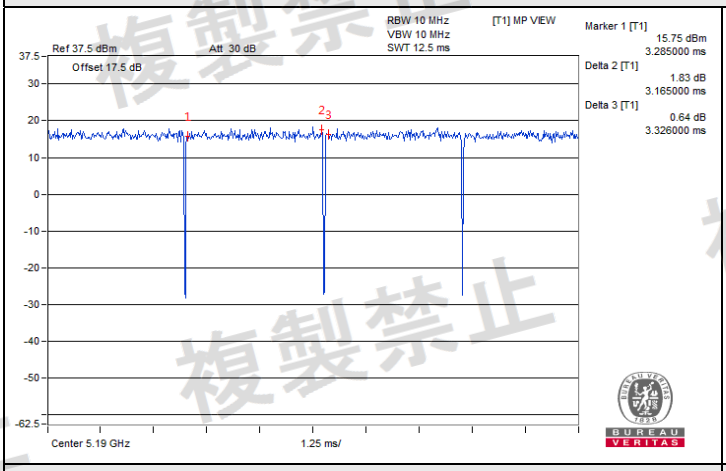
V_{normal}	
	
CH 142 (5710 MHz)	

802.11ac (VHT40) Use combiner

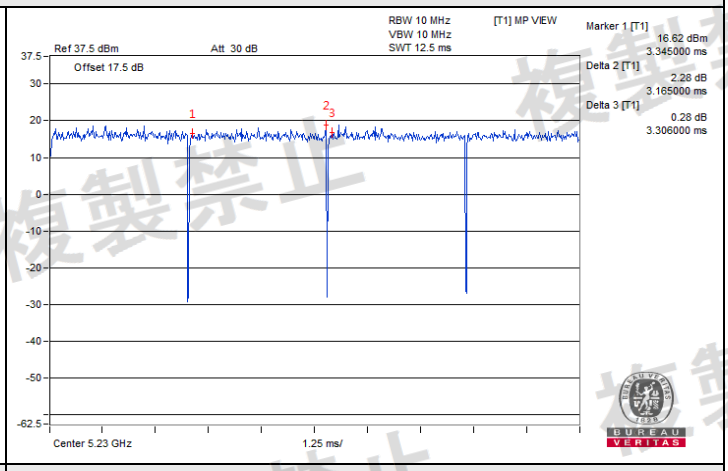
TEST CONDITION	Burst Length (ms)			
	CH 38 (5190 MHz)	**CH 46 (5230 MHz)**	**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**
V_{normal}	3.16	3.16	3.15	3.10
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 102 (5510 MHz)	**CH 118 (5590 MHz)**	**CH 142 (5710 MHz)**
V_{normal}	3.21	3.16	3.11
Limit	≦8 ms		

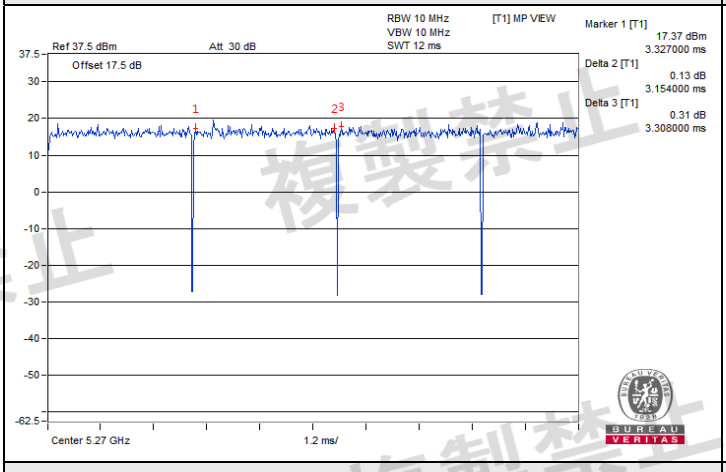
Vnormal



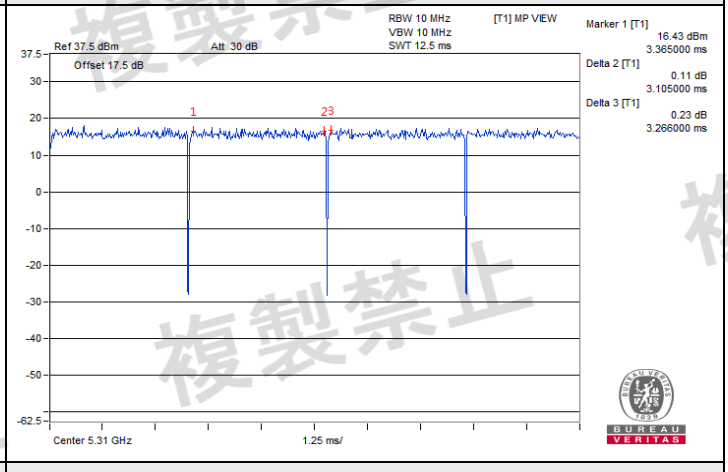
CH 38 (5190 MHz)



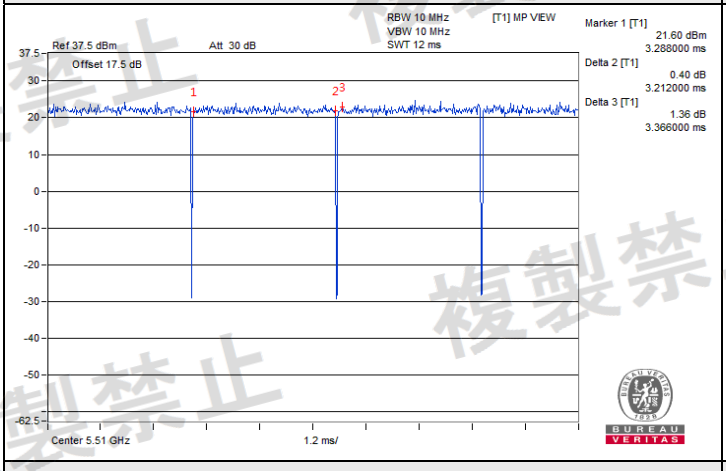
CH 46 (5230 MHz)



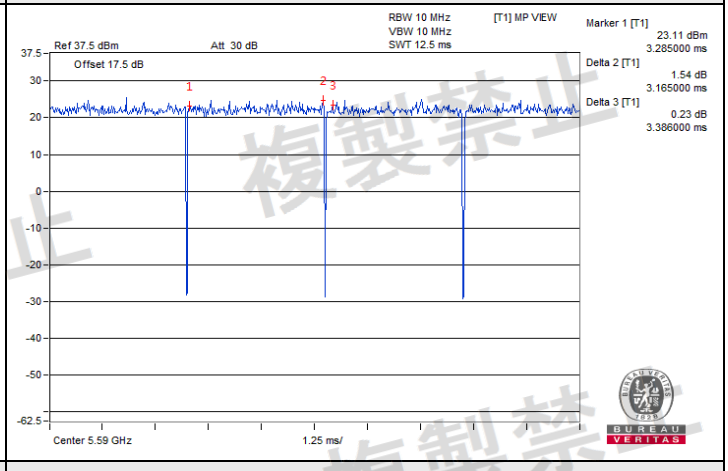
CH 54 (5270 MHz)



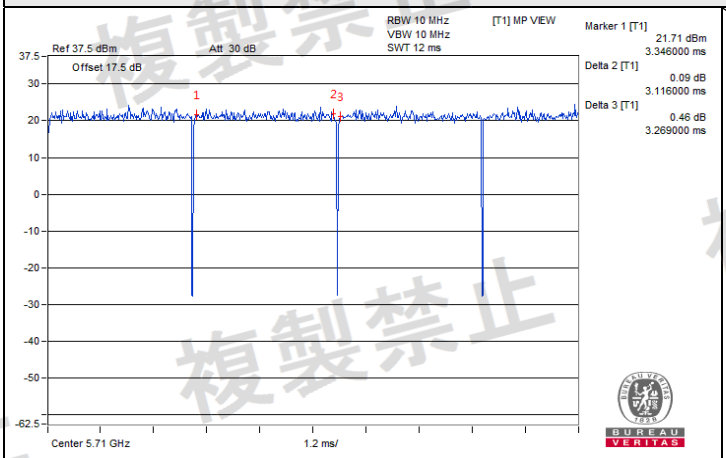
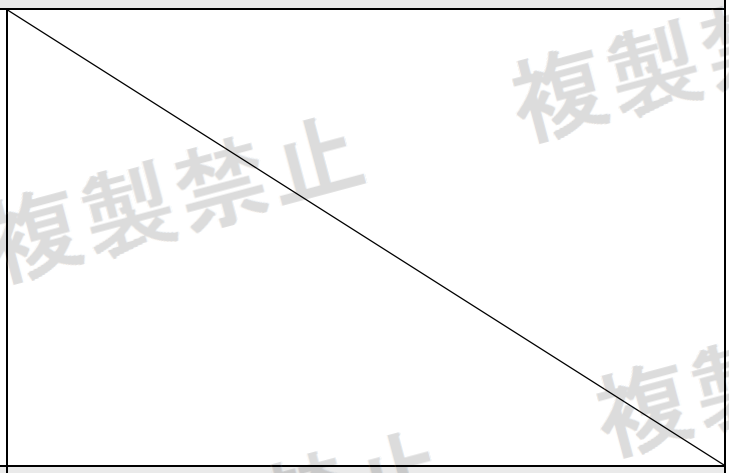
CH 62 (5310 MHz)



CH 102 (5510 MHz)



CH 118 (5590 MHz)

V_{normal}	
	
CH 142 (5710 MHz)	

802.11ac (VHT80) Chain 0

TEST CONDITION	Burst Length (ms)			
	CH 42 (5210 MHz)	**CH 58 (5290 MHz)**	**CH 106 (5530 MHz)**	**CH 122 (5610 MHz)**
V_{normal}	5.35	5.32	5.46	5.46
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)
	CH 138 (5690 MHz)
V_{normal}	5.46
Limit	≦8 ms

802.11ac (VHT80) Chain 1

TEST CONDITION	Burst Length (ms)			
	CH 42 (5210 MHz)	**CH 58 (5290 MHz)**	**CH 106 (5530 MHz)**	**CH 122 (5610 MHz)**
V_{normal}	5.43	5.43	5.43	5.39
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)
	CH 138 (5690 MHz)
V_{normal}	5.43
Limit	≦8 ms

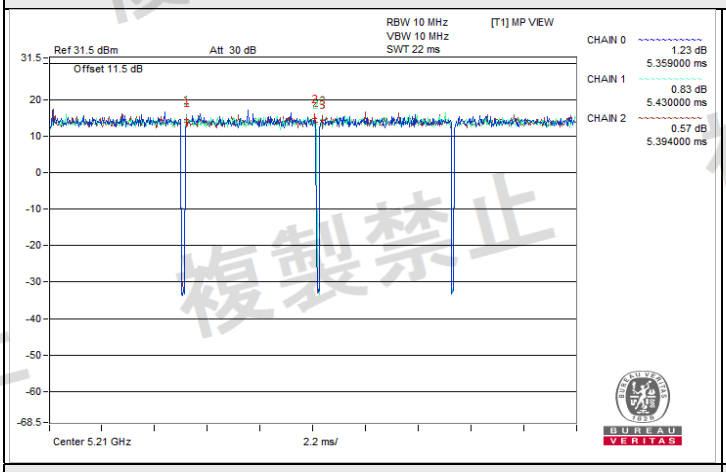
802.11ac (VHT80) Chain 2

TEST CONDITION	Burst Length (ms)			
	CH 42 (5210 MHz)	**CH 58 (5290 MHz)**	**CH 106 (5530 MHz)**	**CH 122 (5610 MHz)**
V_{normal}	5.39	5.39	5.28	5.32
Limit	≦8 ms			

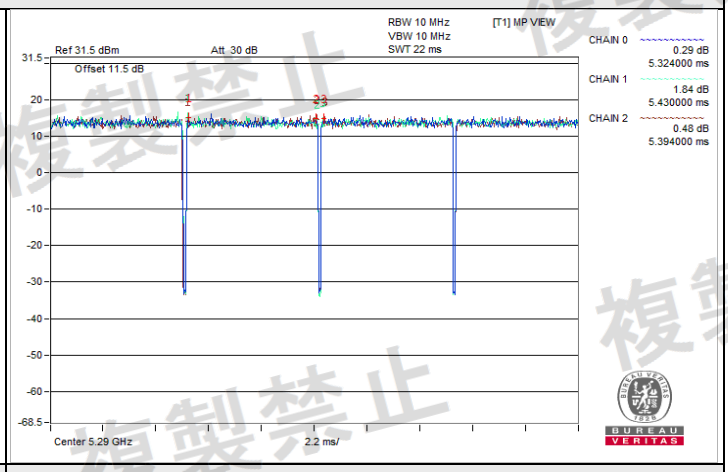
TEST CONDITION	Burst Length (ms)
	CH 138 (5690 MHz)
V_{normal}	5.32
Limit	≦8 ms

802.11ac (VHT80) Graph

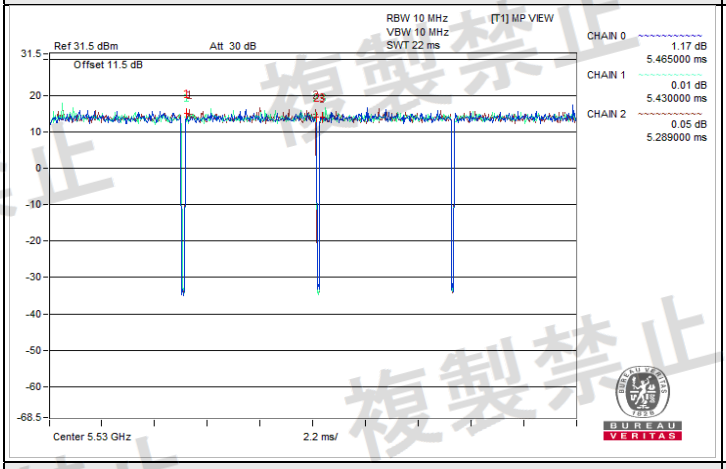
Vnormal



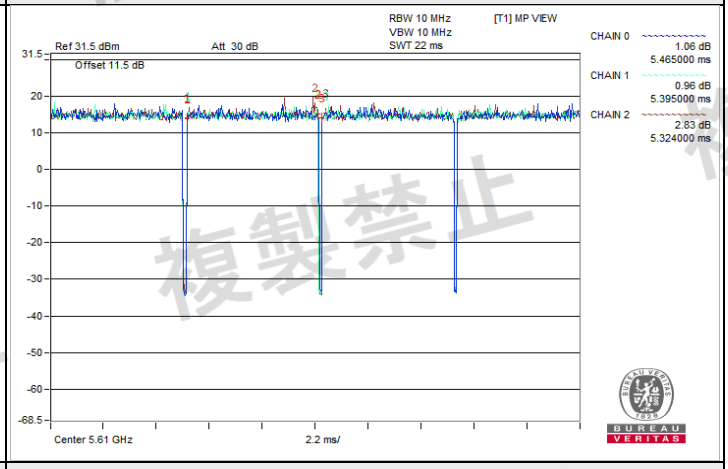
CH 42 (5210 MHz)



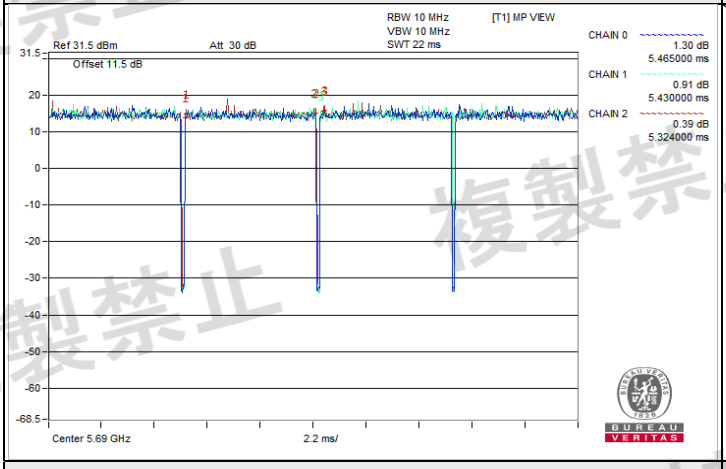
CH 58 (5290 MHz)



CH 106 (5530 MHz)



CH 122 (5610 MHz)



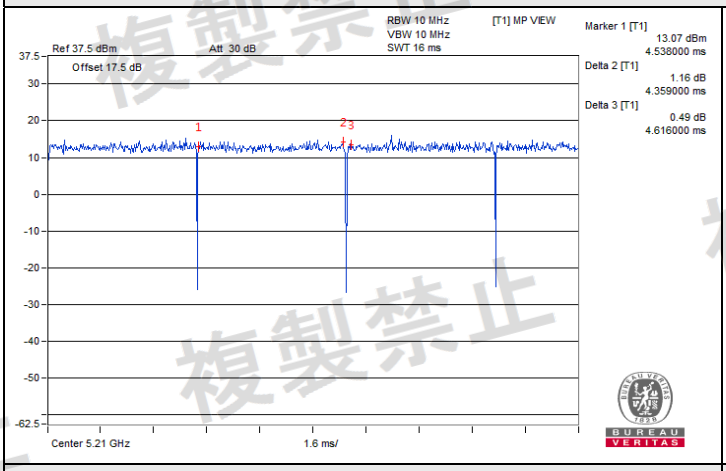
CH 138 (5690 MHz)

802.11ac (VHT80) Use combiner

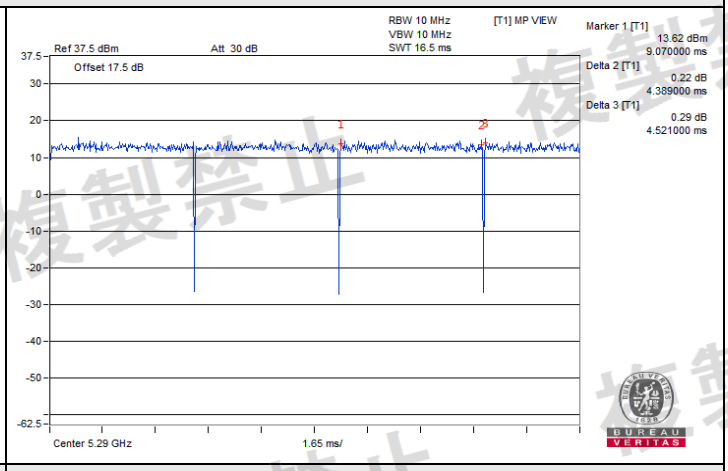
TEST CONDITION	Burst Length (ms)			
	CH 42 (5210 MHz)	**CH 58 (5290 MHz)**	**CH 106 (5530 MHz)**	**CH 122 (5610 MHz)**
V_{normal}	4.35	4.38	4.36	4.41
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)
	CH 138 (5690 MHz)
V_{normal}	4.41
Limit	≦8 ms

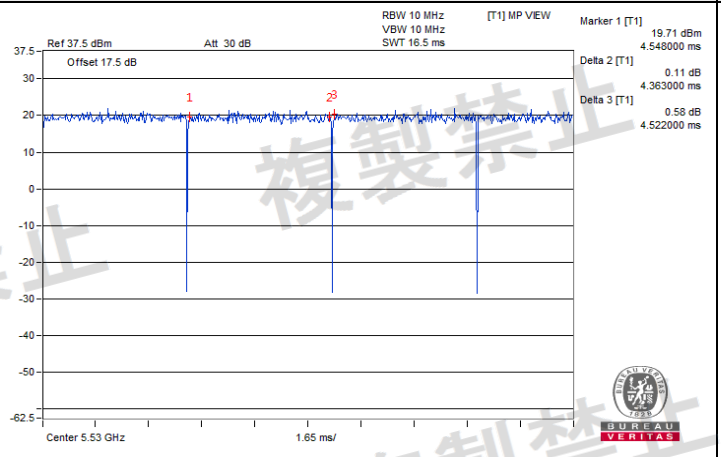
Vnormal



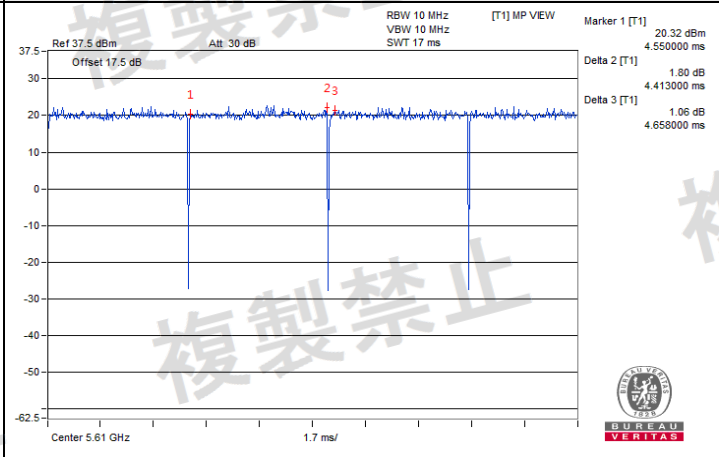
CH 42 (5210 MHz)



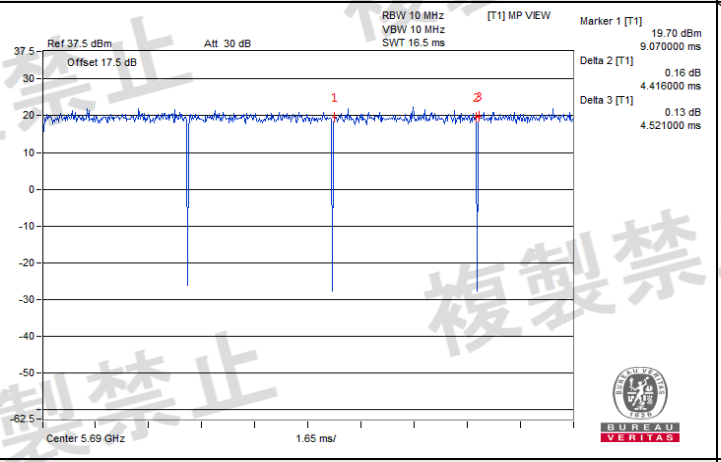
CH 58 (5290 MHz)



CH 106 (5530 MHz)



CH 122 (5610 MHz)



CH 138 (5690 MHz)

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802.11ac (VHT160) Chain 0

TEST CONDITION	Burst Length (ms)	
	CH 50 (5250 MHz)	**CH 114 (5570 MHz)**
Vnormal	6.75	6.70
Limit	≦8 ms	

802.11ac (VHT160) Chain 1

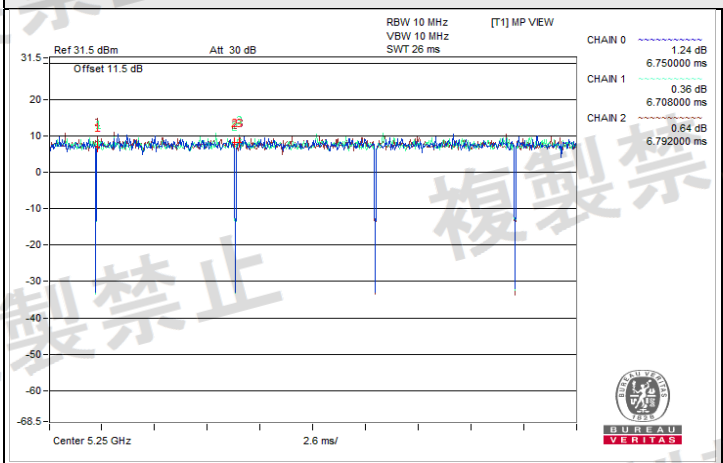
TEST CONDITION	Burst Length (ms)	
	CH 50 (5250 MHz)	**CH 114 (5570 MHz)**
Vnormal	6.70	6.70
Limit	≦8 ms	

802.11ac (VHT160) Chain 2

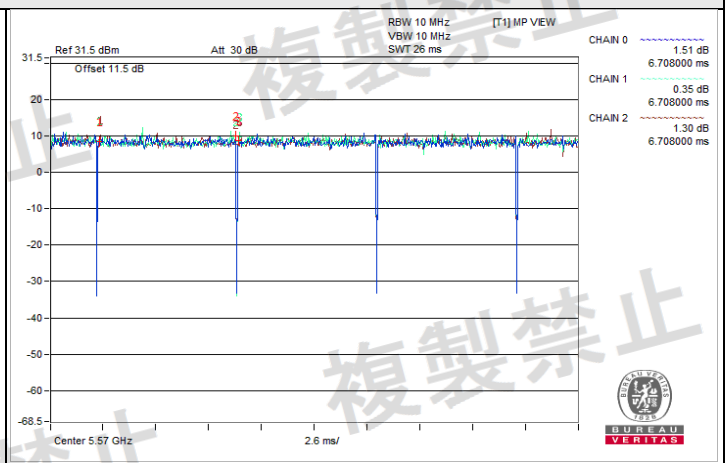
TEST CONDITION	Burst Length (ms)	
	CH 50 (5250 MHz)	**CH 114 (5570 MHz)**
Vnormal	6.79	6.70
Limit	≦8 ms	

802.11ac (VHT160) Graph

Vnormal



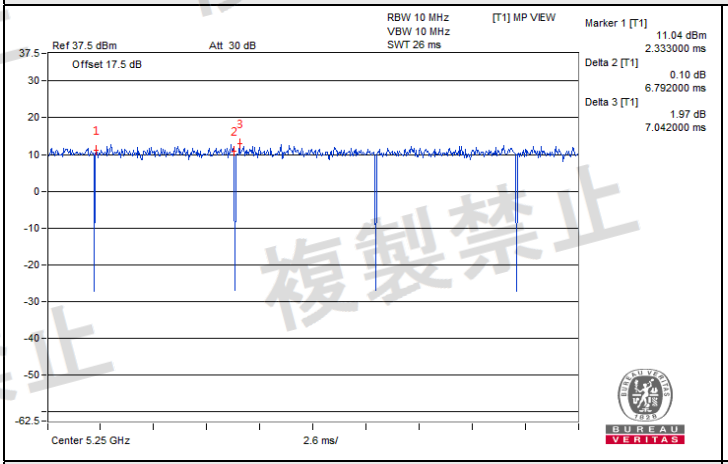
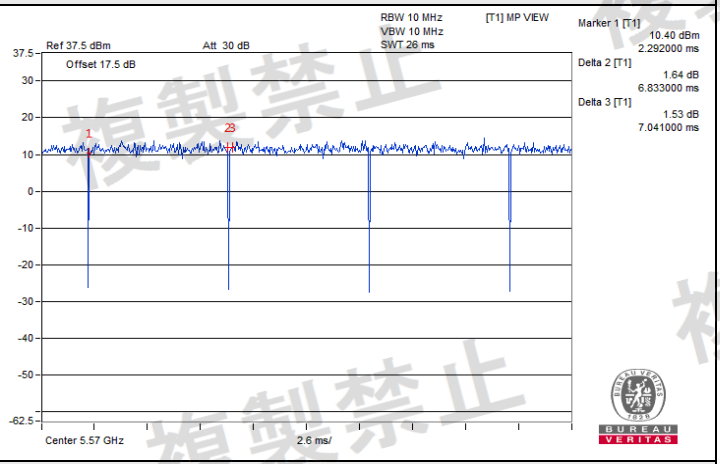
CH 50 (5250 MHz)



CH 114 (5570 MHz)

802.11ac (VHT160) Use combiner

TEST CONDITION	Burst Length (ms)	
	CH 50 (5250 MHz)	**CH 114 (5570 MHz)**
V_{normal}	6.79	6.83
Limit	≦8 ms	

V_{normal}	
	
CH 50 (5250 MHz)	CH 114 (5570 MHz)

802.11ax (HE20) Chain 0

TEST CONDITION	Burst Length (ms)			
	CH 36 (5180 MHz)	**CH 48 (5240 MHz)**	**CH 52 (5260 MHz)**	**CH 64 (5320 MHz)**
V_{normal}	3.50	3.50	3.50	3.50
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 100 (5500 MHz)	**CH 120 (5600 MHz)**	**CH 144 (5720 MHz)**
V_{normal}	3.50	3.50	3.50
Limit	≦8 ms		

802.11ax (HE20) Chain 1

TEST CONDITION	Burst Length (ms)			
	CH 36 (5180 MHz)	**CH 48 (5240 MHz)**	**CH 52 (5260 MHz)**	**CH 64 (5320 MHz)**
V_{normal}	3.50	3.50	3.50	3.50
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 100 (5500 MHz)	**CH 120 (5600 MHz)**	**CH 144 (5720 MHz)**
V_{normal}	3.50	3.50	3.50
Limit	≦8 ms		

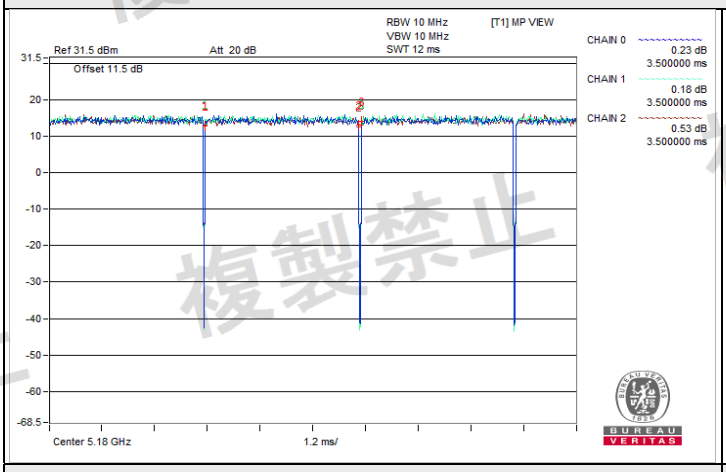
802.11ax (HE20) Chain 2

TEST CONDITION	Burst Length (ms)			
	CH 36 (5180 MHz)	**CH 48 (5240 MHz)**	**CH 52 (5260 MHz)**	**CH 64 (5320 MHz)**
V_{normal}	3.50	3.50	3.48	3.50
Limit	≦8 ms			

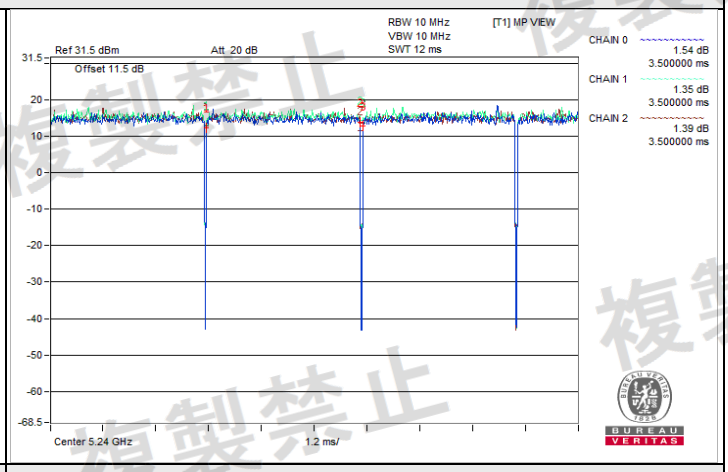
TEST CONDITION	Burst Length (ms)		
	CH 100 (5500 MHz)	**CH 120 (5600 MHz)**	**CH 144 (5720 MHz)**
V_{normal}	3.50	3.50	3.50
Limit	≦8 ms		

802.11ax (HE20) Graph

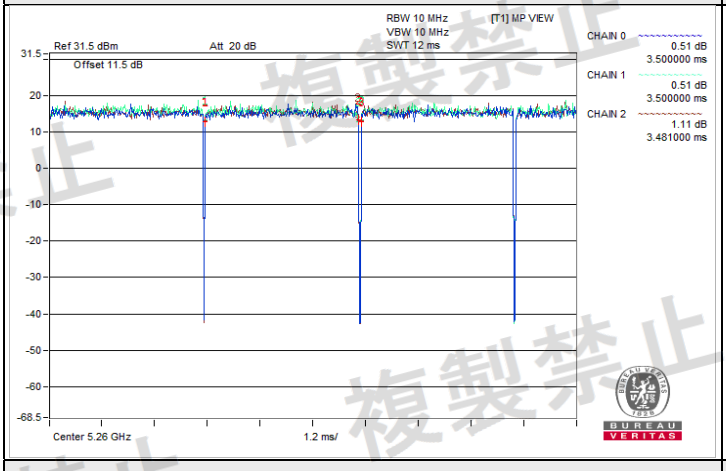
Vnormal



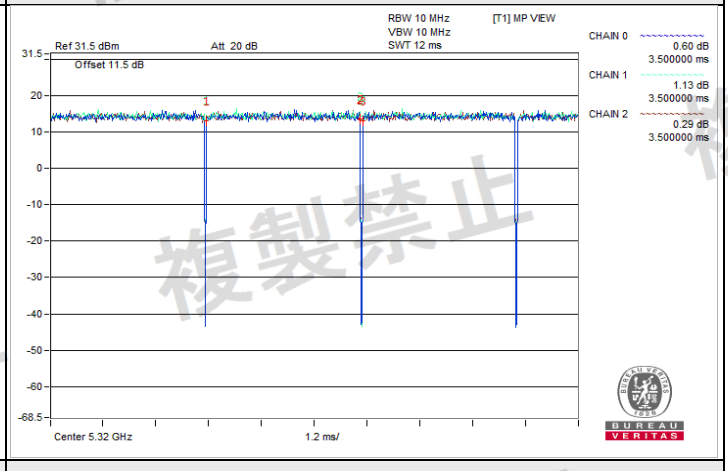
CH 36 (5180 MHz)



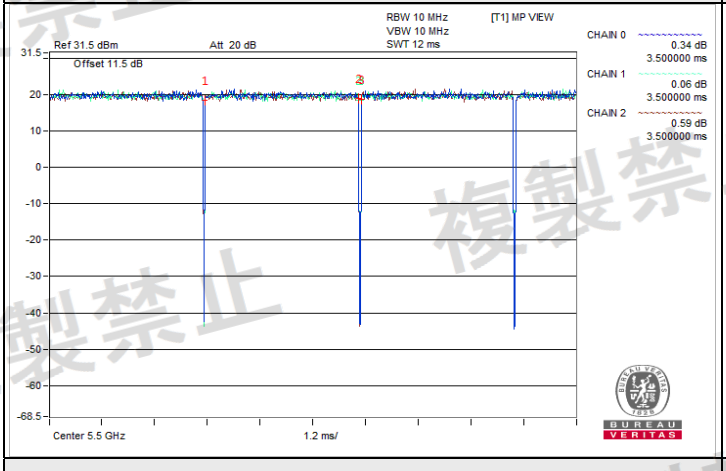
CH 48 (5240 MHz)



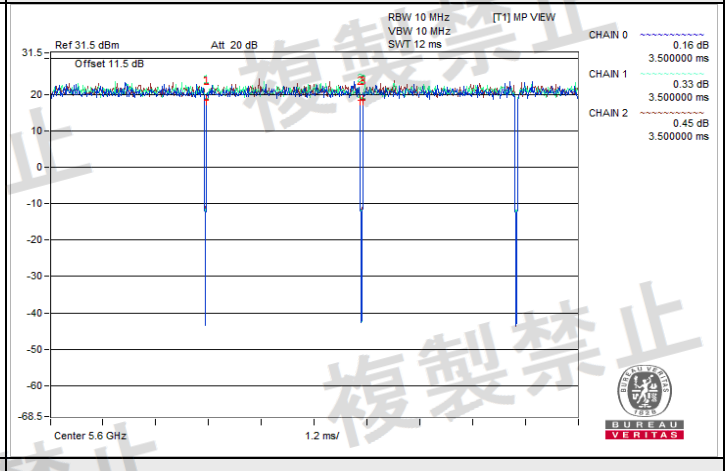
CH 52 (5260 MHz)



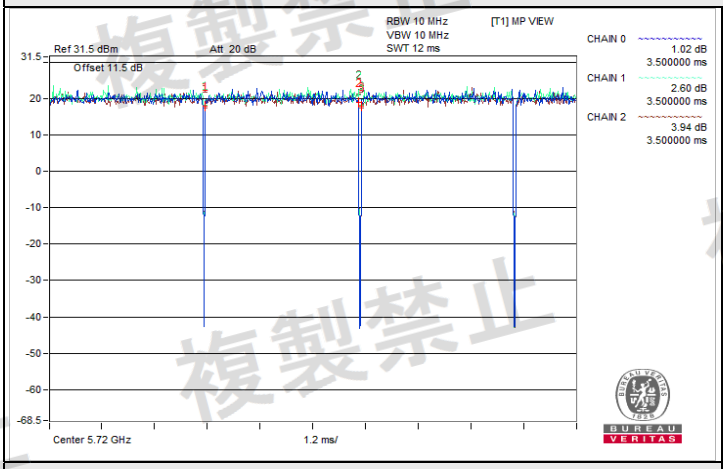
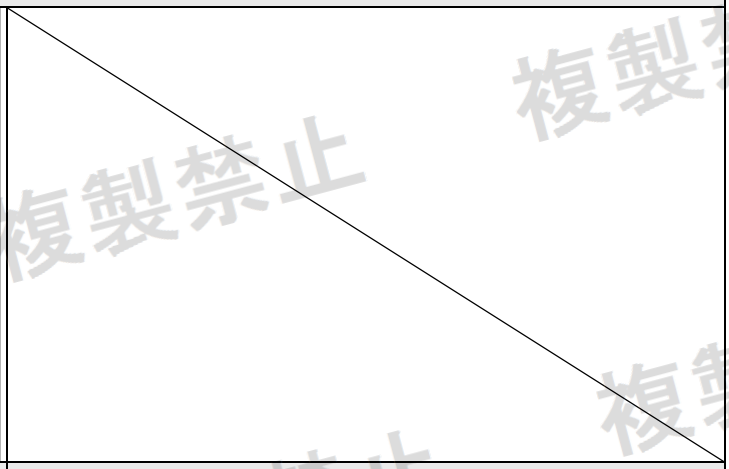
CH 64 (5320 MHz)



CH 100 (5500 MHz)



CH 120 (5600 MHz)

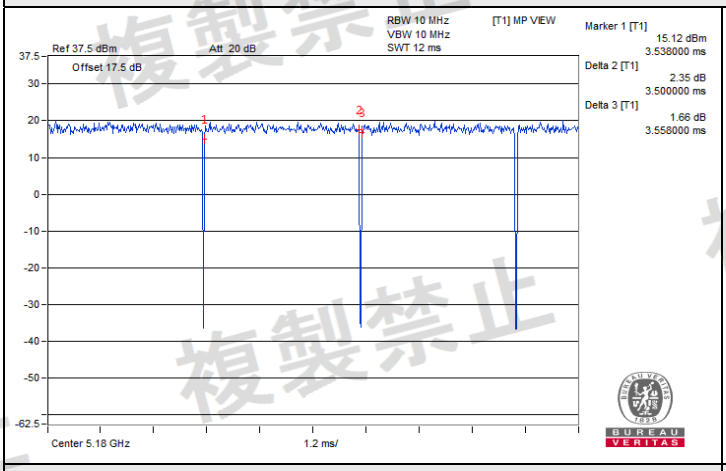
V_{normal}	
	
CH 144 (5720 MHz)	

802.11ax (HE20) Use combiner

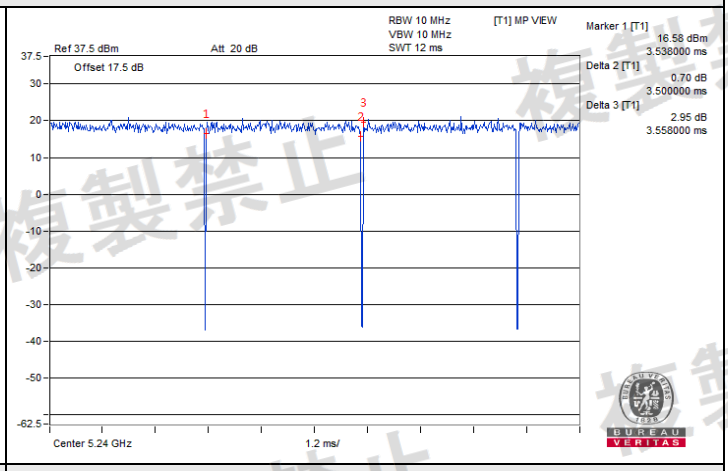
TEST CONDITION	Burst Length (ms)			
	CH 36 (5180 MHz)	**CH 48 (5240 MHz)**	**CH 52 (5260 MHz)**	**CH 64 (5320 MHz)**
V_{normal}	3.50	3.50	3.50	3.50
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 100 (5500 MHz)	**CH 120 (5600 MHz)**	**CH 144 (5720 MHz)**
V_{normal}	3.50	3.50	3.50
Limit	≦8 ms		

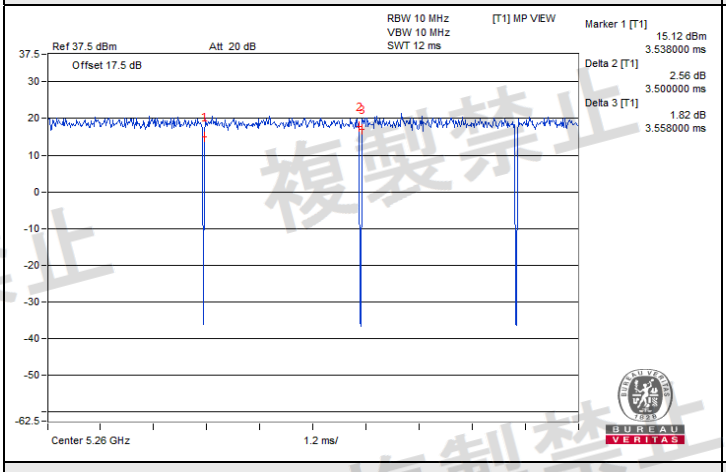
Vnormal



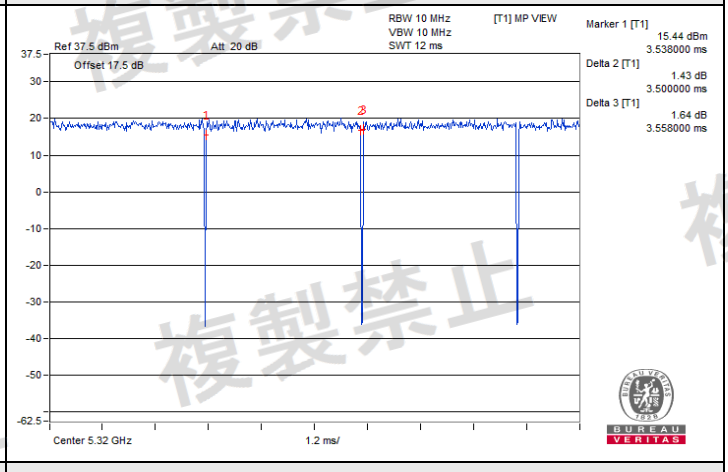
CH 36 (5180 MHz)



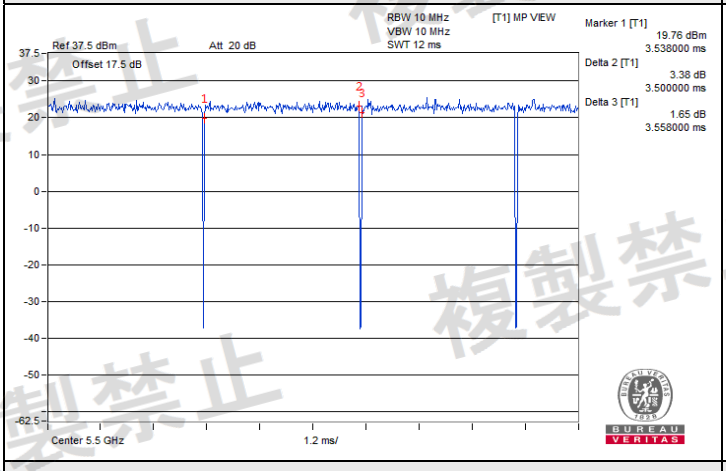
CH 48 (5240 MHz)



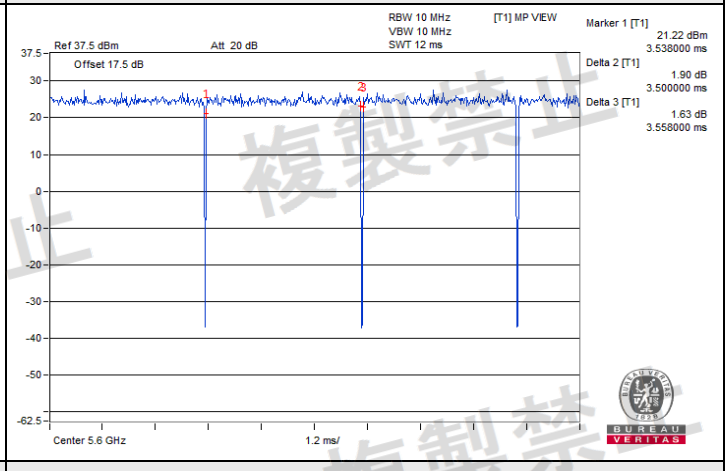
CH 52 (5260 MHz)



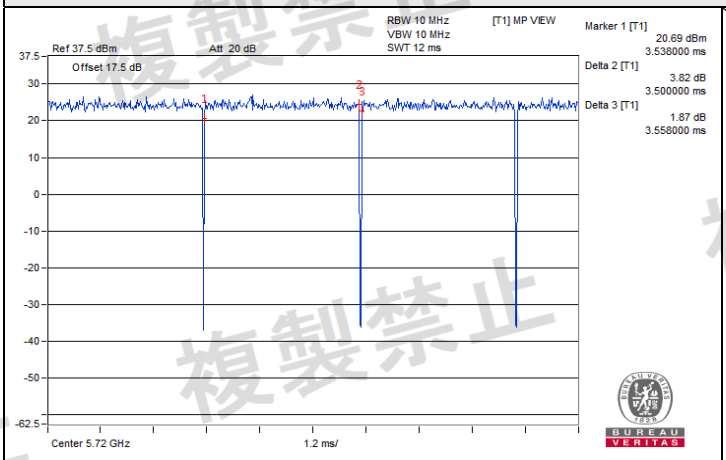
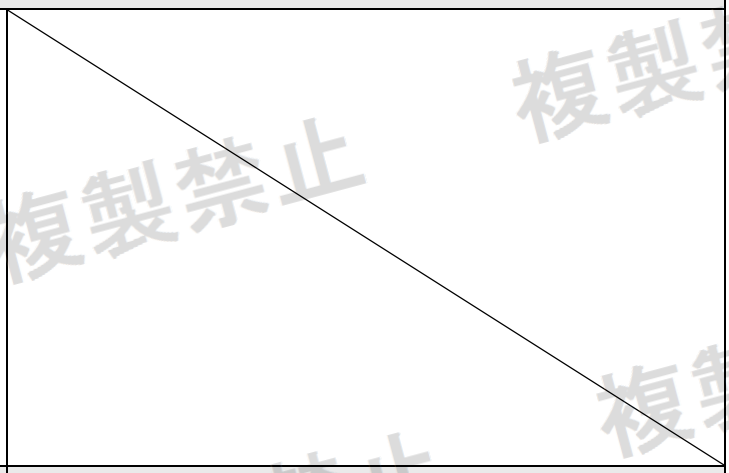
CH 64 (5320 MHz)



CH 100 (5500 MHz)



CH 120 (5600 MHz)

V_{normal}	
	
CH 144 (5720 MHz)	

802.11ax (HE40) Chain 0

TEST CONDITION	Burst Length (ms)			
	CH 38 (5190 MHz)	**CH 46 (5230 MHz)**	**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**
V_{normal}	3.72	3.72	3.70	3.67
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 102 (5510 MHz)	**CH 118 (5590 MHz)**	**CH 142 (5710 MHz)**
V_{normal}	3.70	3.68	3.68
Limit	≦8 ms		

802.11ax (HE40) Chain 1

TEST CONDITION	Burst Length (ms)			
	CH 38 (5190 MHz)	**CH 46 (5230 MHz)**	**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**
V_{normal}	3.77	3.68	3.74	3.72
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 102 (5510 MHz)	**CH 118 (5590 MHz)**	**CH 142 (5710 MHz)**
V_{normal}	3.70	3.70	3.70
Limit	≦8 ms		

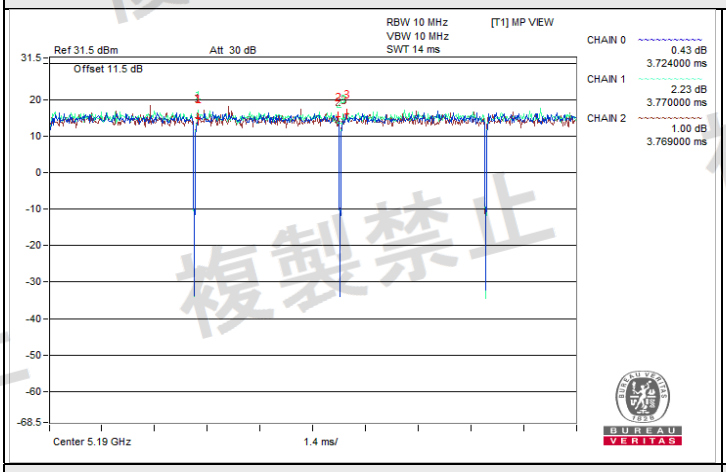
802.11ax (HE40) Chain 2

TEST CONDITION	Burst Length (ms)			
	CH 38 (5190 MHz)	**CH 46 (5230 MHz)**	**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**
V_{normal}	3.76	3.70	3.68	3.67
Limit	≦8 ms			

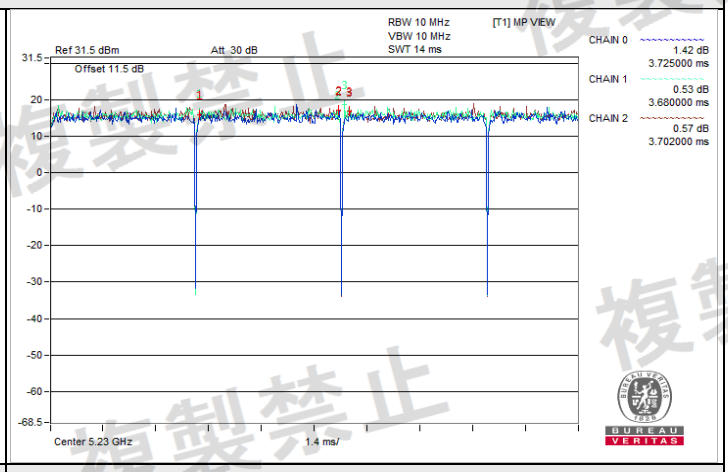
TEST CONDITION	Burst Length (ms)		
	CH 102 (5510 MHz)	**CH 118 (5590 MHz)**	**CH 142 (5710 MHz)**
V_{normal}	3.70	3.68	3.70
Limit	≦8 ms		

802.11ax (HE40) Graph

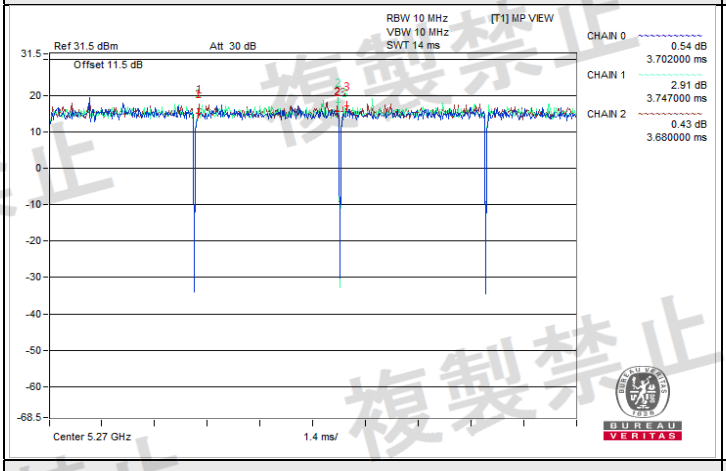
Vnormal



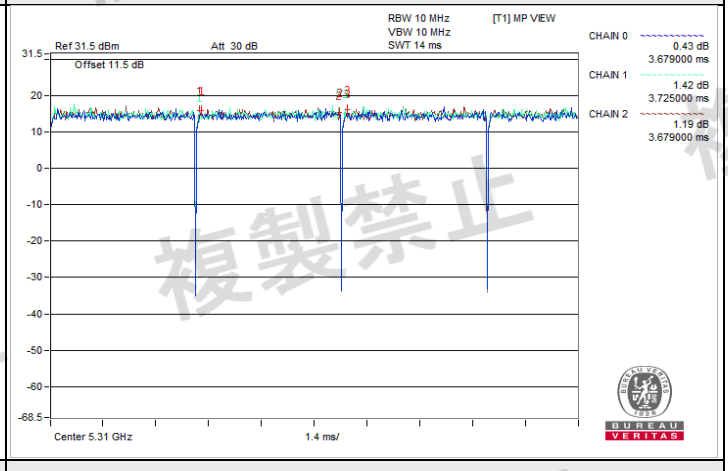
CH 38 (5190 MHz)



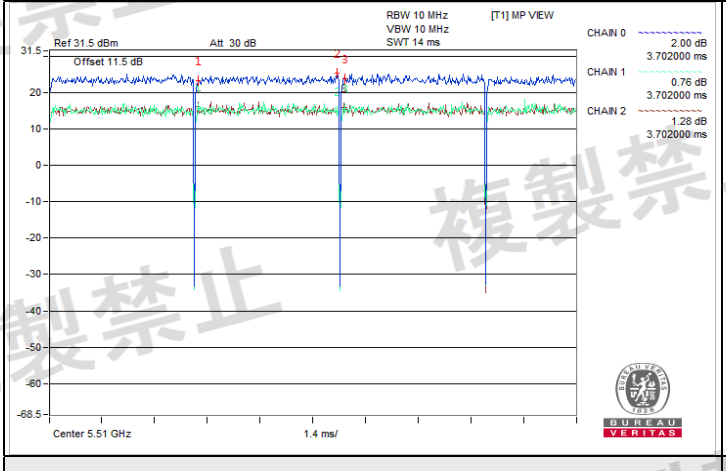
CH 46 (5230 MHz)



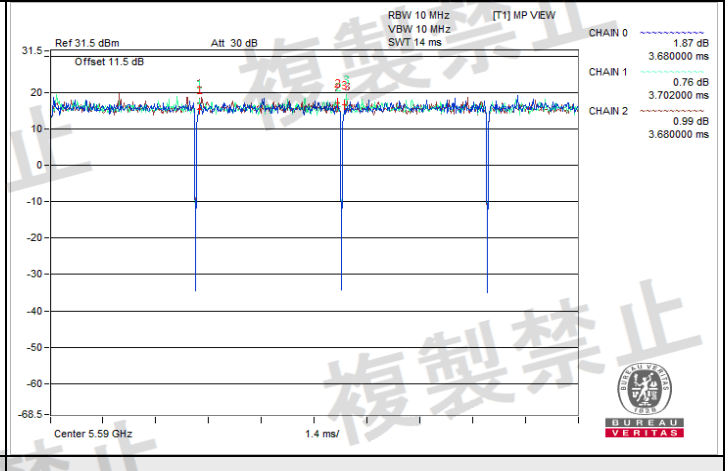
CH 54 (5270 MHz)



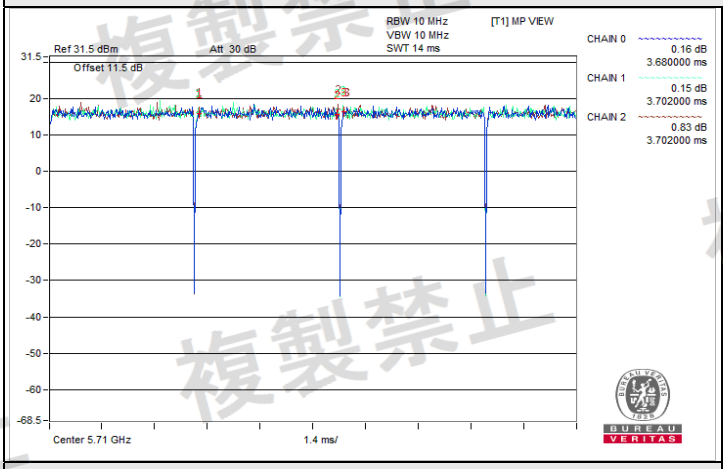
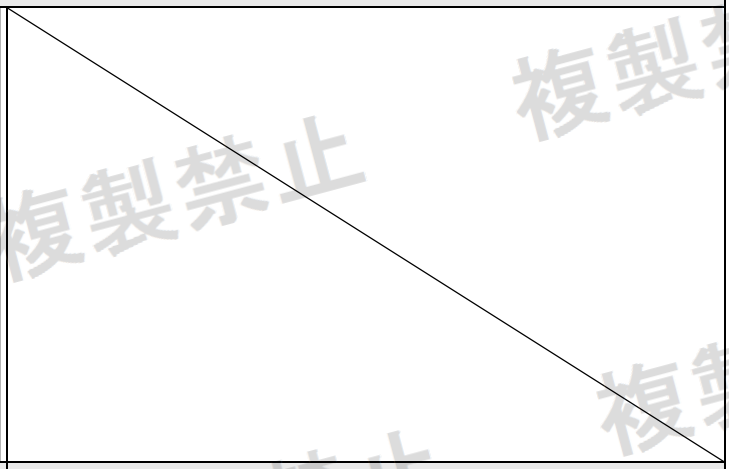
CH 62 (5310 MHz)



CH 102 (5510 MHz)



CH 118 (5590 MHz)

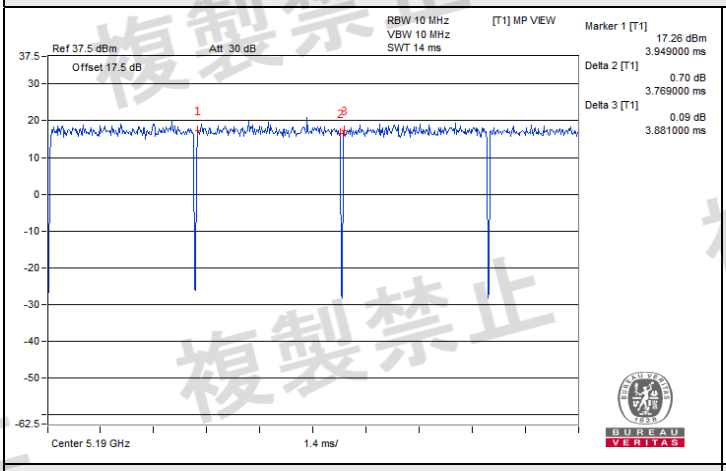
V_{normal}	
	
CH 142 (5710 MHz)	

802.11ax (HE40) Use combiner

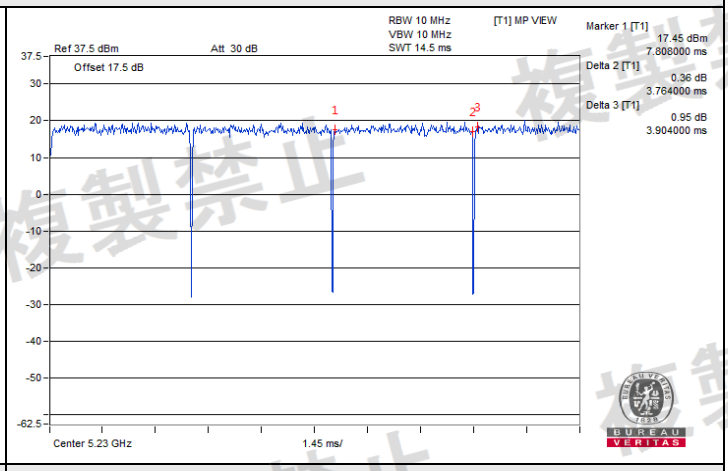
TEST CONDITION	Burst Length (ms)			
	CH 38 (5190 MHz)	**CH 46 (5230 MHz)**	**CH 54 (5270 MHz)**	**CH 62 (5310 MHz)**
V_{normal}	3.76	3.76	3.74	3.72
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)		
	CH 102 (5510 MHz)	**CH 118 (5590 MHz)**	**CH 142 (5710 MHz)**
V_{normal}	3.67	3.70	3.74
Limit	≦8 ms		

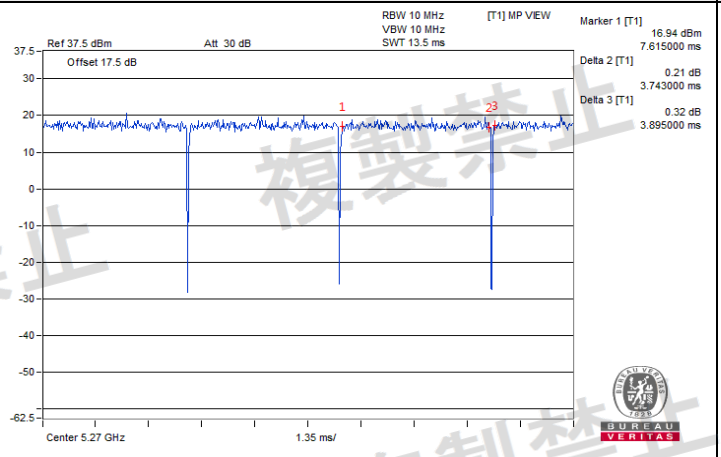
Vnormal



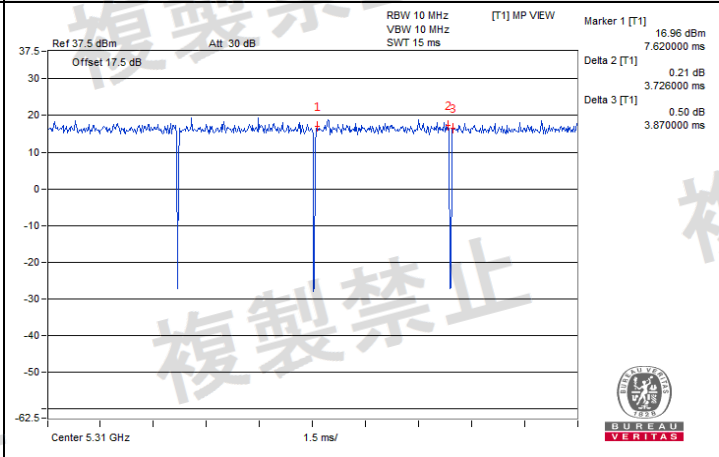
CH 38 (5190 MHz)



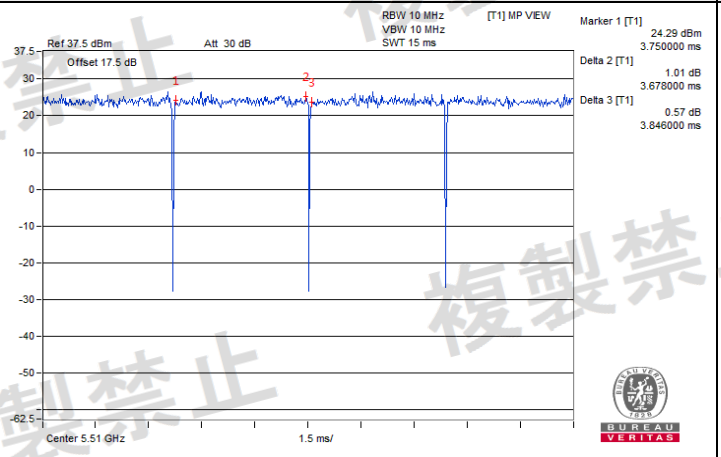
CH 46 (5230 MHz)



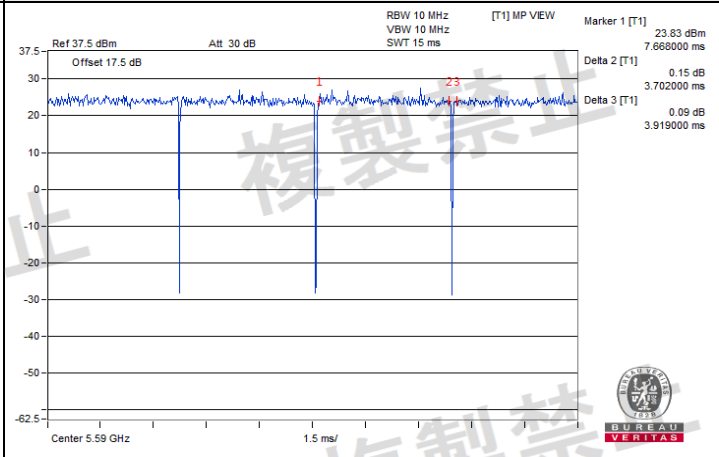
CH 54 (5270 MHz)



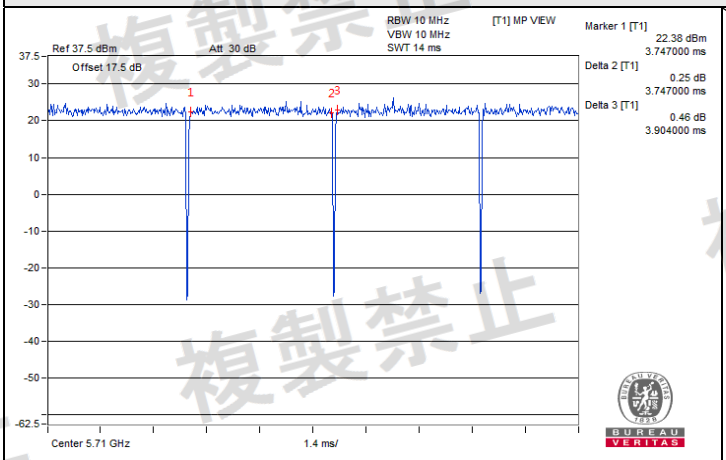
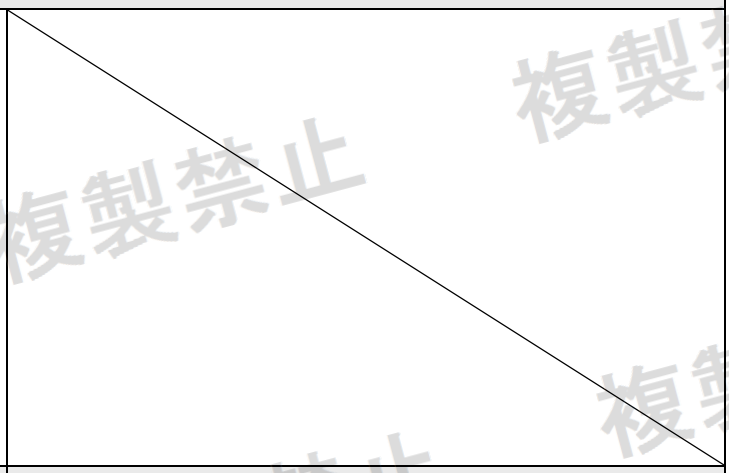
CH 62 (5310 MHz)



CH 102 (5510 MHz)



CH 118 (5590 MHz)

V_{normal}	
	
CH 142 (5710 MHz)	

802.11ax (HE80) Chain 0

TEST CONDITION	Burst Length (ms)			
	CH 42 (5210 MHz)	**CH 58 (5290 MHz)**	**CH 106 (5530 MHz)**	**CH 122 (5610 MHz)**
V_{normal}	3.45	3.61	3.52	3.54
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)
	CH 138 (5690 MHz)
V_{normal}	3.54
Limit	≦8 ms

802.11ax (HE80) Chain 1

TEST CONDITION	Burst Length (ms)			
	CH 42 (5210 MHz)	**CH 58 (5290 MHz)**	**CH 106 (5530 MHz)**	**CH 122 (5610 MHz)**
V_{normal}	3.54	3.54	3.61	3.54
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)
	CH 138 (5690 MHz)
V_{normal}	3.59
Limit	≦8 ms

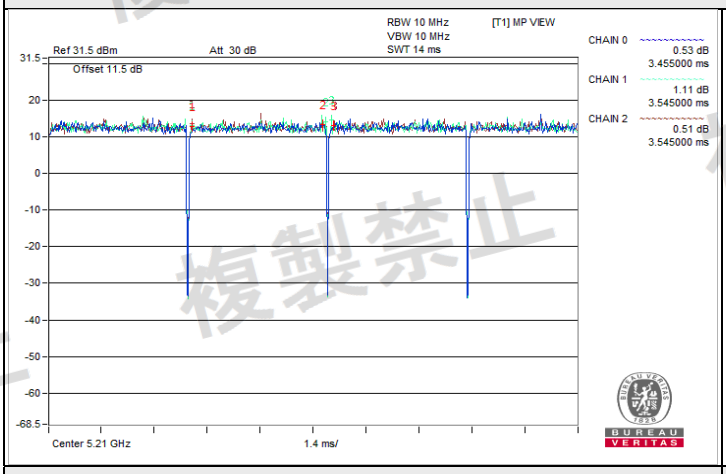
802.11ax (HE80) Chain 2

TEST CONDITION	Burst Length (ms)			
	CH 42 (5210 MHz)	**CH 58 (5290 MHz)**	**CH 106 (5530 MHz)**	**CH 122 (5610 MHz)**
V_{normal}	3.54	3.56	3.54	3.56
Limit	≦8 ms			

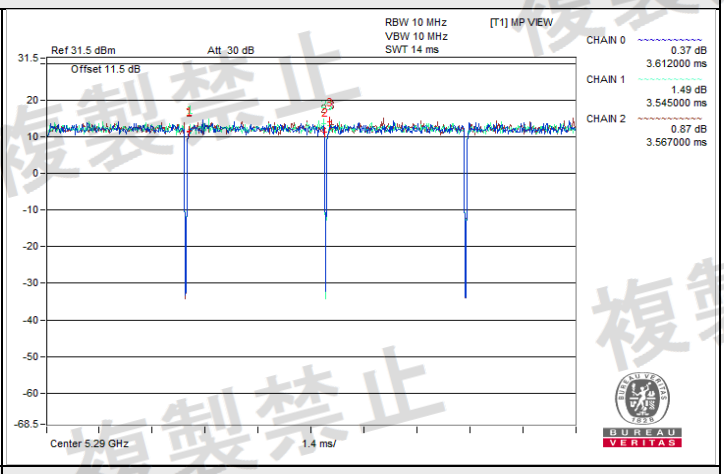
TEST CONDITION	Burst Length (ms)
	CH 138 (5690 MHz)
V_{normal}	3.52
Limit	≦8 ms

802.11ax (HE80) Graph

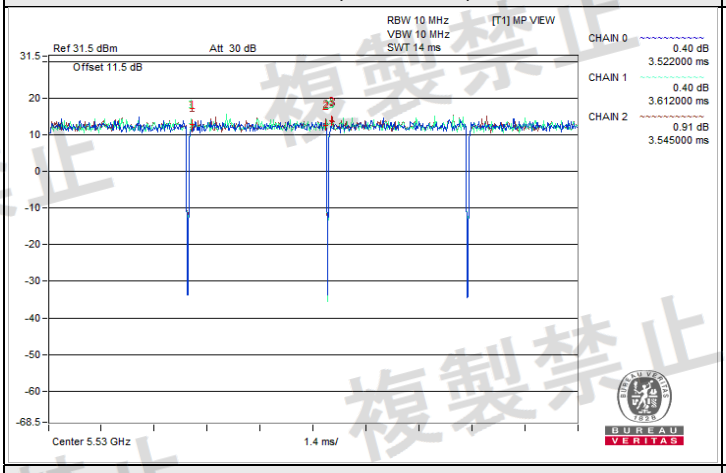
Vnormal



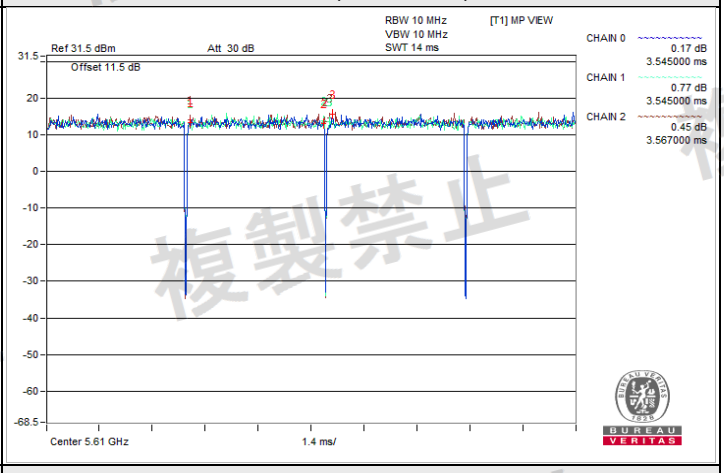
CH 42 (5210 MHz)



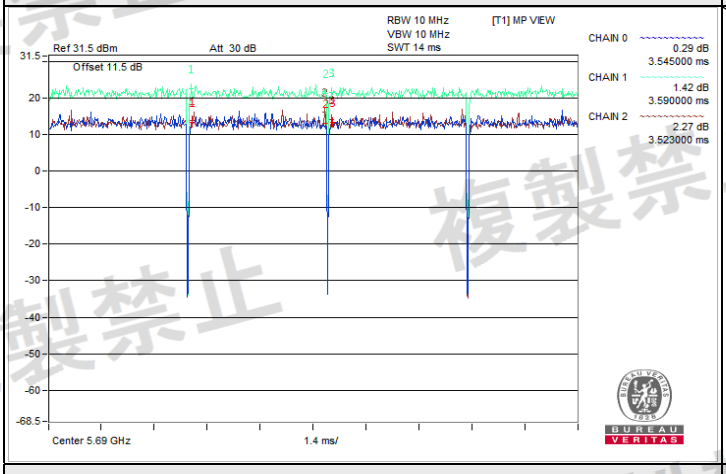
CH 58 (5290 MHz)



CH 106 (5530 MHz)



CH 122 (5610 MHz)



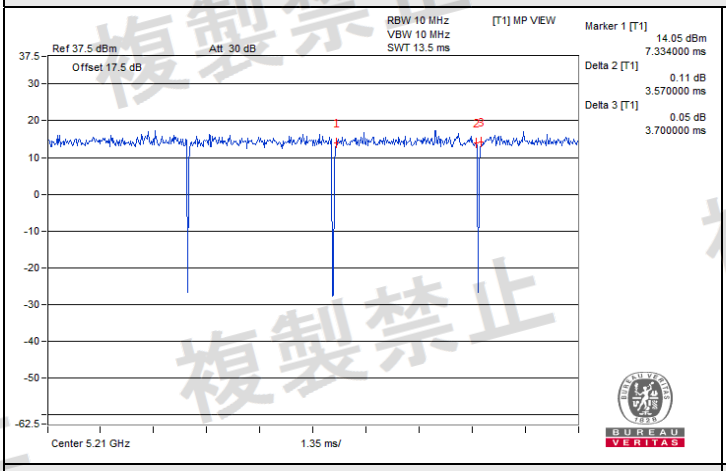
CH 138 (5690 MHz)

802.11ax (HE80) Use combiner

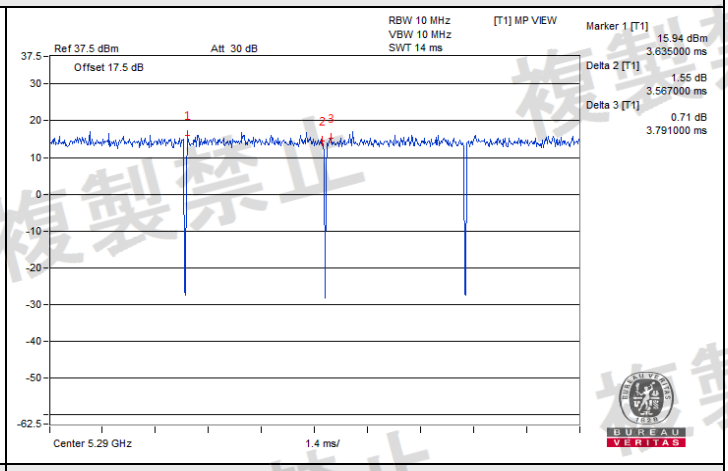
TEST CONDITION	Burst Length (ms)			
	CH 42 (5210 MHz)	**CH 58 (5290 MHz)**	**CH 106 (5530 MHz)**	**CH 122 (5610 MHz)**
V_{normal}	3.57	3.56	3.56	3.57
Limit	≦8 ms			

TEST CONDITION	Burst Length (ms)
	CH 138 (5690 MHz)
V_{normal}	3.60
Limit	≦8 ms

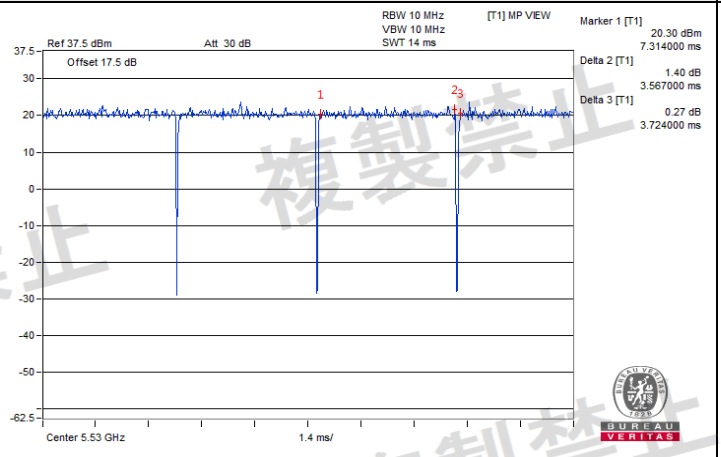
Vnormal



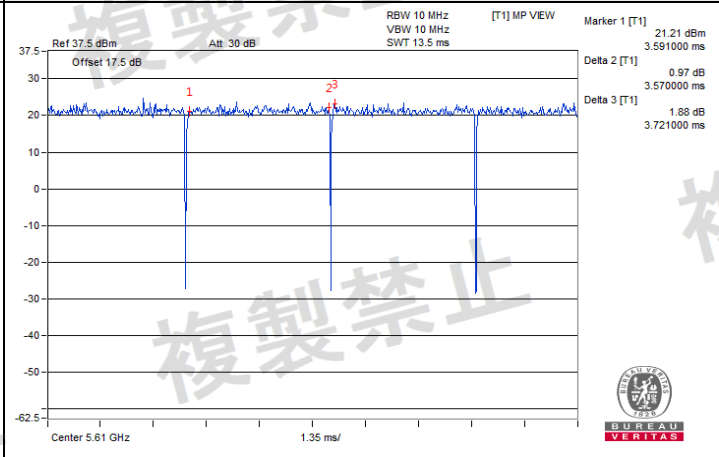
CH 42 (5210 MHz)



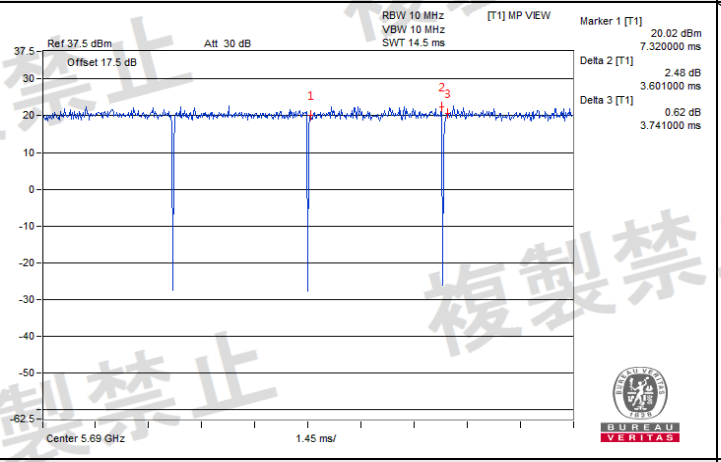
CH 58 (5290 MHz)



CH 106 (5530 MHz)



CH 122 (5610 MHz)



CH 138 (5690 MHz)

802.11ax (HE160) Chain 0

TEST CONDITION	Burst Length (ms)	
	CH 50 (5250 MHz)	**CH 114 (5570 MHz)**
Vnormal	7.38	7.48
Limit	≦8 ms	

802.11ax (HE160) Chain 1

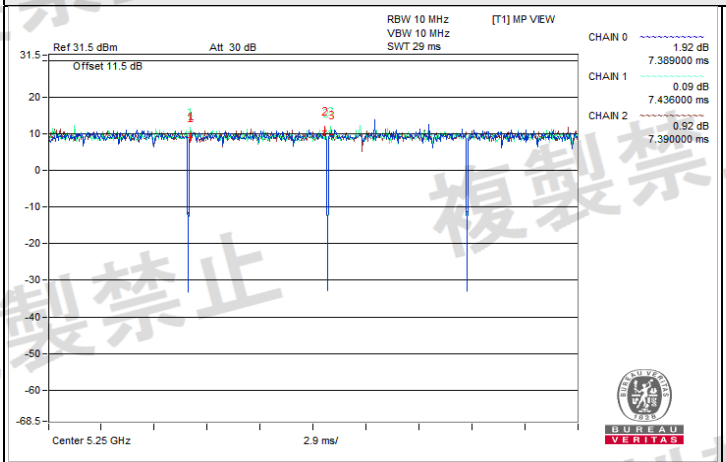
TEST CONDITION	Burst Length (ms)	
	CH 50 (5250 MHz)	**CH 114 (5570 MHz)**
Vnormal	7.43	7.48
Limit	≦8 ms	

802.11ax (HE160) Chain 2

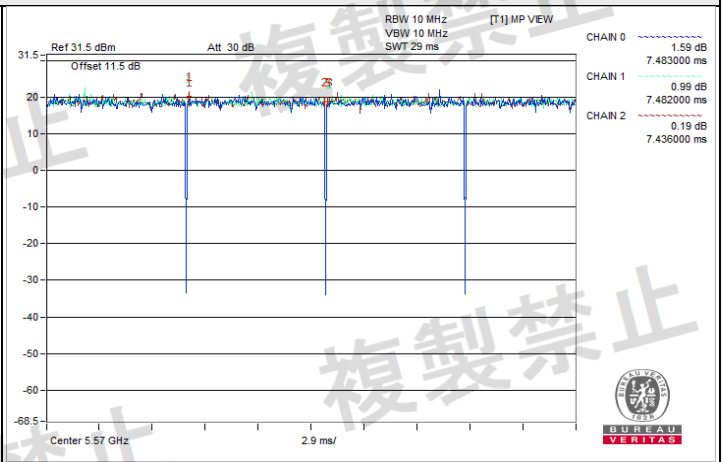
TEST CONDITION	Burst Length (ms)	
	CH 50 (5250 MHz)	**CH 114 (5570 MHz)**
Vnormal	7.39	7.43
Limit	≦8 ms	

802.11ax (HE160) Graph

Vnormal



CH 50 (5250 MHz)

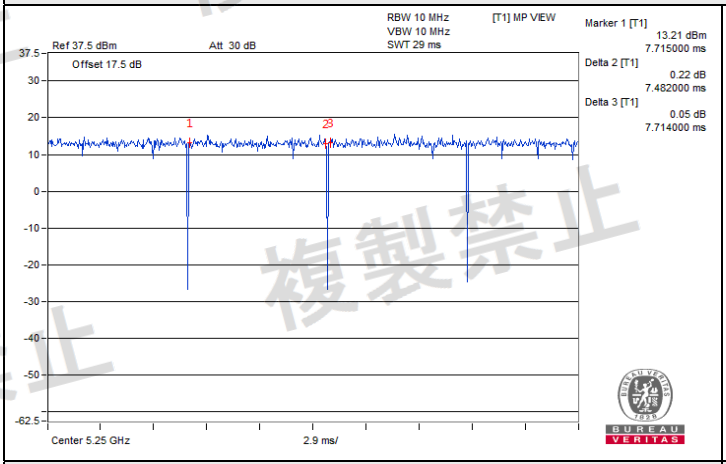


CH 114 (5570 MHz)

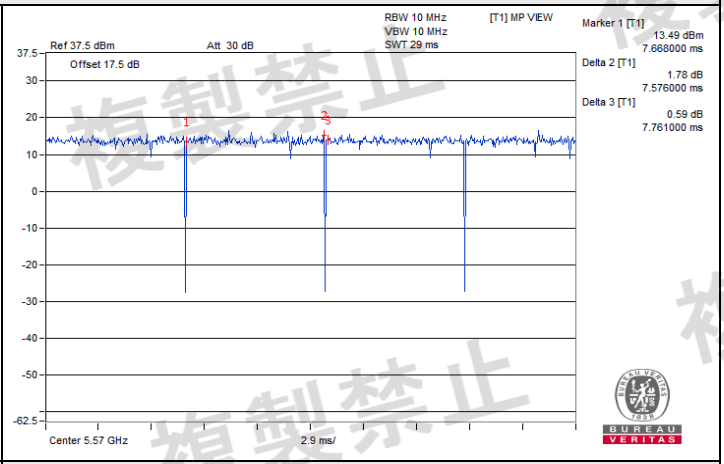
802.11ax (HE160) Use combiner

TEST CONDITION	Burst Length (ms)	
	CH 50 (5250 MHz)	**CH 114 (5570 MHz)**
V_{normal}	7.48	7.57
Limit	≦8 ms	

V_{normal}



CH 50 (5250 MHz)



CH 114 (5570 MHz)

7.8 Number of Carriers within 1 MHz Bandwidth in OFDM

Environmental Conditions:	25°C, 65% RH	Tested By:	Chris Lin

About OFDM Technical, one OFDM Channel will have 52 sub-carriers. At present, we observe this product via the spectrum, and we know that there are 3 carriers in 1 MHz bandwidth in OFDM.

7.9 Interference Prevention Function

Environmental Conditions:	25°C, 65% RH	Tested By:	Chris Lin

Link Mode	Test Result
WiFi 5G	Pass

7.10 Carrier Sense Capability

Environmental Conditions:	25°C, 65% RH	Tested By:	Chris Lin

802.11a

Frequency (MHz)	Pcs (dBm)	C.F (dB)	S.G Level
5180	-47.13	11.13	-36.00
5240	-47.23	11.15	-36.08
5260	-47.44	11.21	-36.23
5320	-47.54	11.31	-36.23
5500	-47.78	11.49	-36.29
5600	-47.93	11.56	-36.37
5720	-48.12	11.61	-36.51

Note:
Pcs (dBm) = 22.79 + Gr - 20log(F).
Gr: Antenna gain (W52: 4.37dBi, W53: 4.19dBi, W56: 4.24dBi).
F: Transmission frequency (MHz).
C.F = Distributor loss + cable loss.

802.11ax (HE20)

Frequency (MHz)	Pcs (dBm)	C.F (dB)	S.G Level
5180.00	-47.13	11.15	-35.98
5240.00	-47.23	11.16	-36.07
5260.00	-47.44	11.23	-36.21
5320.00	-47.54	11.32	-36.22
5500.00	-47.78	11.50	-36.28
5600.00	-47.93	11.57	-36.36
5720.00	-48.12	11.62	-36.50

Note:
Pcs (dBm) = 22.79 + Gr - 20log(F).
Gr: Antenna gain (W52: 4.37dBi, W53: 4.19dBi, W56: 4.24dBi).
F: Transmission frequency (MHz).
C.F = Distributor loss + cable loss.

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802.11ax (HE40)

Frequency (MHz)	Pcs (dBm)	C.F (dB)	S.G Level
5190	-47.14	11.15	-35.99
5230	-47.21	11.16	-36.05
5270	-47.46	11.24	-36.22
5310	-47.52	11.31	-36.21
5510	-47.79	11.49	-36.30
5590	-47.92	11.56	-36.36
5710	-48.10	11.59	-36.51

Note:
Pcs (dBm) = 22.79 + Gr - 20log(F).
Gr: Antenna gain (W52: 4.37dBi, W53: 4.19dBi, W56: 4.24dBi).
F: Transmission frequency (MHz).
C.F = Distributor loss + cable loss.

802.11ax (HE80)

Frequency (MHz)	Pcs (dBm)	C.F (dB)	S.G Level
5210	-47.18	11.16	-36.02
5290	-47.49	11.25	-36.24
5530	-47.82	11.53	-36.29
5610	-47.95	11.57	-36.38
5690	-48.07	11.57	-36.50

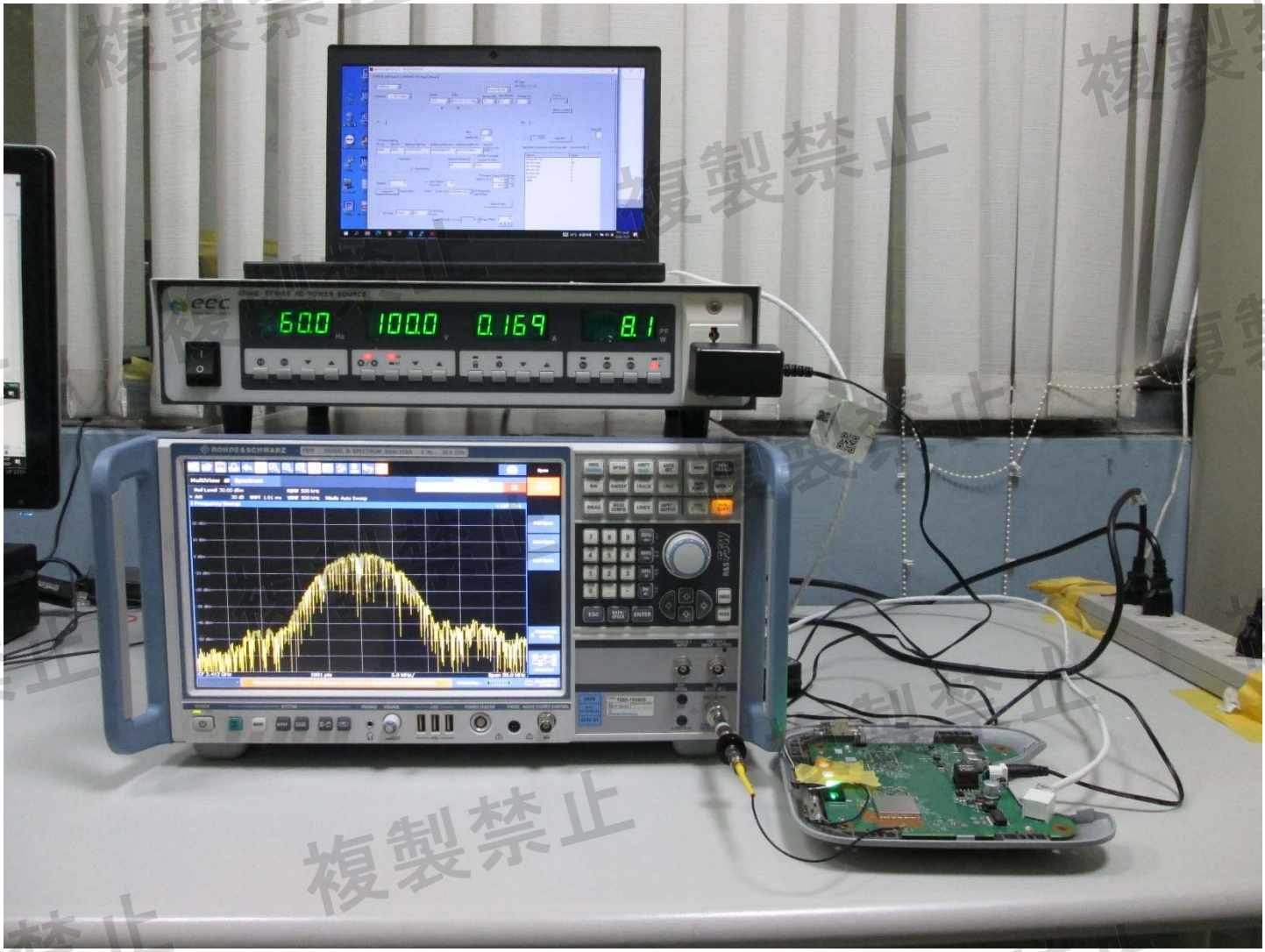
Note:
Pcs (dBm) = 22.79 + Gr - 20log(F).
Gr: Antenna gain (W52: 4.37dBi, W53: 4.19dBi, W56: 4.24dBi).
F: Transmission frequency (MHz).
C.F = Distributor loss + cable loss.

802.11ax (HE160)

Frequency (MHz)	Pcs (dBm)	C.F (dB)	S.G Level
5250	-47.24	11.22	-36.02
5570	-47.89	11.24	-36.65

Note:
Pcs (dBm) = 22.79 + Gr - 20log(F).
Gr: Antenna gain (W52: 4.37dBi, W53: 4.19dBi, W56: 4.24dBi).
F: Transmission frequency (MHz).
C.F = Distributor loss + cable loss.

8 Pictures of Test Arrangements



9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Fax: 886-2-26051924

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Fax: 886-3-6668323

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The address and road map of all our labs can be found in our web site also.

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