TEST REPORT

CERTIFICATE OF CONFORMITY

Standard:	**Certification Ordinance Article 2-1-19**
Report No.:	RJBFPJ-WTW-P25060477-1
Product:	Access Point U7 Pro XG
Brand:	UBIQUITI or UI.COM or or UBIQUITI or
Model No.:	U7-Pro-XG
Series Model:	U7-Pro-XG-B
Received Date:	2025/6/26
Test Date:	2025/7/4 ~ 2025/7/28
Issued Date:	2025/8/6
Applicant:	Ubiquiti Inc.
Address:	685 Third Avenue, 27th Floor New York, New York, 10017, USA
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. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Approved by: Jeremy Lin , **Date:** 2025/8/6

Jeremy Lin / Project Engineer

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Prepared by : Annie Chang / Senior Specialist

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Table of Contents

Release Control Record **3**

1 Certificate **4**

2 Summary of Test Results **5**

2.1 Measurement Uncertainty 5
2.2 Supplementary Information 5

3 General Information **6**

3.1 General Description 6
3.2 Output Power Description of EUT 7
3.3 Antenna Description of EUT 8
3.4 Channel List 9
3.5 Power Setting 9
3.6 Test Mode Applicability and Tested Channel Detail 10

4 Test Instruments **11**

4.1 Frequency Tolerance 11
4.2 Occupied Bandwidth 12
4.3 Spurious Emissions 12
4.4 Spurious Emissions of Receiver 12
4.5 Antenna Power 13
4.6 Number of Carriers within 1 MHz Bandwidth in OFDM 14
4.7 Interference Prevention Function 14
4.8 Carrier Sense Capability 15

5 Limits of Test Items **16**

5.1 Frequency Tolerance 16
5.2 Occupied Bandwidth 16
5.3 Spurious Emissions 16
5.4 Spurious Emissions of Receiver 16
5.5 Antenna Power 17
5.6 Number of Carriers within 1 MHz Bandwidth in OFDM 17
5.7 Interference Prevention Function 17
5.8 Carrier Sense Capability 17

6 Test Arrangements **18**

6.1 Frequency Tolerance 18
6.2 Occupied Bandwidth 18
6.3 Spurious Emissions 18
6.4 Spurious Emissions of Receiver 18
6.5 Antenna Power 18
6.6 Number of Carriers within 1 MHz Bandwidth in OFDM 19
6.7 Interference Prevention Function 19
6.8 Carrier Sense Capability 19

7 Test Results of Test Item **20**

7.1 Frequency Tolerance 20
7.2 Occupied Bandwidth 21
7.3 Spurious Emissions 37
7.4 Spurious Emissions of Receiver 99
7.5 Antenna Power 105
7.6 Number of Carriers within 1 MHz Bandwidth in OFDM 109
7.7 Interference Prevention Function 110
7.8 Carrier Sense Capability 111

8 Pictures of Test Arrangements **112**

9 Information of the Testing Laboratories **113**

Release Control Record

Issue No.	Description	Date Issued
RJBFPJ-WTW-P25060477-1	Original release.	2025/8/6

1 Certificate

Product:	Access Point U7 Pro XG
Brand:	
Test Model:	U7-Pro-XG
Series Model:	U7-Pro-XG-B
Sample Status:	Engineering sample
Applicant:	Ubiquiti Inc.
Test Date:	2025/7/4 ~ 2025/7/28
Standard:	Certification Ordinance Article 2-1-19
Measurement procedure:	MIC notice 88 Appendix 43

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		
Clause	Test Item	Result
OR: Article 5 OR: Annex 1 table 7-8	Frequency Tolerance	Pass
OR: Article 6 Annex 2.30	Occupied Bandwidth	Pass
OR: Article 7. Annex 3.26	Spurious Emissions	Pass
OR: Article 49-20	Antenna Specifications	Pass
OR: Article 24.2	Spurious Emissions of Receiver	Pass
OR: Article 49-20	Housing Requirements	Pass (Refer to Note 1)
OR: Article 49-20	Antenna Power	Pass
OR: Article 49-20	Absolute Gain of Transmitting Antenna	Pass
OR: Article 49-20	Angular Width of Principal Radiation (AWPR)	N/A
OR: Article 49-20	Number of Carriers within 1 MHz Bandwidth in OFDM	Pass
OR: Article 49-20	Dwell Time (FH employed)	N/A
OR: Article 9-4.5 RE: Article 6-2.3 RE: Article 6-2.5	Interference Prevention Function	Pass
OR: Article 49-20	Carrier Sense Capability	Pass

Notes:

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

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 and ETSI TR 100 028-2:

Parameter	Uncertainty (±)
Occupied Bandwidth	960 Hz
Spurious Emissions	2.7 dB
Output Power Density	1.3 dB
Frequency Tolerance	97.75 Hz

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

Product	Access Point U7 Pro XG
Brand	
Test Model	U7-Pro-XG
Series Model	U7-Pro-XG-B
Model Difference	Color difference (White & Black)
Test Software Version	TeraTerm V4.8
Status of EUT	Engineering sample
Power Supply Rating	48Vdc
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	Up to 573.5 Mbps (802.11ax) Up to 688.2 Mbps (802.11be)
Operating Frequency	2.412 GHz ~ 2.472 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20), 802.11be (EHT20):13 802.11n (HT40), VHT40, 802.11ax (HE40), 802.11be (EHT40):9
Housing Requirements	The RF areas for U7-Pro-XG、U7-Pro-XG-B are covered by shielding frames.

Note:

1. There are WLAN (2.4 GHz & 5 GHz & 6 GHz) technology used for the EUT.
2. Simultaneously transmission condition.

Condition	Technology		
1	WLAN (2.4GHz)	WLAN (5GHz)	WLAN (6GHz)

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)	Maximum Conducted RF Output Power Density (mW/MHz)	Maximum Radiated RF Output Power Density (mW/MHz)
802.11b	6.3	6.277	15.767
802.11g	6.1	6.084	15.282
VHT20	6.1	6.112	15.353
VHT40	3.05	3.106	7.802
802.11ax (HE20)	6.1	6.113	15.355
802.11ax (HE40)	3.05	3.12	7.837
802.11be (EHT20)	6.1	6.154	15.458
802.11be (EHT40)	3.05	3.131	7.865

3.3 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	Brand	Model	Gain (dBi)	Frequency range	Antenna Type	Connector Type
1	UBIQUITI	117-06150	4	2.4 GHz ~ 2.4835 GHz	PIFA	SMA
2	UBIQUITI	117-06150	4	2.4 GHz ~ 2.4835 GHz	PIFA	SMA

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

2. The EUT incorporates a MIMO function:

2.4 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11b	2TX	2RX
802.11g	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
VHT20	2TX	2RX
VHT40	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11be (EHT20)	2TX	2RX
802.11be (EHT40)	2TX	2RX

Note:
1. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), VHT mode for 20 MHz (40 MHz), 802.11ax mode for 20 MHz (40 MHz) and 802.11be mode for 20 MHz (40 MHz). Therefore the investigated worst case is the representative mode in test report.
2. The EUT does not use channel puncturing and bandwidth reduction.

3. Antenna Pattern:

Please refer to the attached file (Antenna pattern).

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3.4 Channel List

13 channels are provided for 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20), 802.11be (EHT20):

Channel	Frequency	Channel	Frequency
1	2412 MHz	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz		

9 channels are provided for 802.11n (HT40), VHT40, 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
3	2422 MHz	8	2447 MHz
4	2427 MHz	9	2452 MHz
5	2432 MHz	10	2457 MHz
6	2437 MHz	11	2462 MHz
7	2442 MHz		

3.5 Power Setting

Power Setting					
Channel	802.11b	802.11g	VHT20	Channel	VHT40
1	14.5	17	17.5	3	17
7	14.5	17	17.5	7	17
13	14.5	17	17.5	11	17

Power Setting							
Channel	802.11ax (HE20)	Channel	802.11ax (HE40)	Channel	802.11be (EHT20)	Channel	802.11be (EHT40)
1	17.5	3	17.5	1	17.5	3	17.5
7	17.5	7	17.5	7	17.5	7	17.5
13	17.5	11	17.5	13	17.5	11	17.5

3.6 Test Mode Applicability and Tested Channel Detail

Test Conditions	Voltage (Vdc)
V_{normal}	48

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.

Pre-Scan:	1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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	1, 7, 13	unmodulated	-
		40MHz System	3, 7, 11	unmodulated	-
Occupied Bandwidth	Chain 0 Chain 1	802.11b	1, 7, 13	DBPSK	1Mb/s
		802.11g	1, 7, 13	BPSK	6Mb/s
		VHT20	1, 7, 13	BPSK	MCS0
		VHT40	3, 7, 11	BPSK	MCS0
		802.11ax (HE20)	1, 7, 13	BPSK	MCS0
		802.11ax (HE40)	3, 7, 11	BPSK	MCS0
		802.11be (EHT20)	1, 7, 13	BPSK	MCS0
		802.11be (EHT40)	3, 7, 11	BPSK	MCS0
Spurious Emissions	Chain 0 Chain 1 W	802.11b	1, 7, 13	DBPSK	1Mb/s
		802.11g	1, 7, 13	BPSK	6Mb/s
		VHT20	1, 7, 13	BPSK	MCS0
		VHT40	3, 7, 11	BPSK	MCS0
		802.11ax (HE20)	1, 7, 13	BPSK	MCS0
		802.11ax (HE40)	3, 7, 11	BPSK	MCS0
		802.11be (EHT20)	1, 7, 13	BPSK	MCS0
		802.11be (EHT40)	3, 7, 11	BPSK	MCS0
Spurious Emissions of Receiver	Chain 0 Chain 1 S	20MHz System	1, 7, 13	-	-
		40MHz System	3, 7, 11	-	-
Antenna Power	Chain 0 Chain 1 S	802.11b	1, 7, 13	DBPSK	1Mb/s
		802.11g	1, 7, 13	BPSK	6Mb/s
		VHT20	1, 7, 13	BPSK	MCS0
		VHT40	3, 7, 11	BPSK	MCS0
		802.11ax (HE20)	1, 7, 13	BPSK	MCS0
		802.11ax (HE40)	3, 7, 11	BPSK	MCS0
		802.11be (EHT20)	1, 7, 13	BPSK	MCS0
		802.11be (EHT40)	3, 7, 11	BPSK	MCS0
Number of Carriers within 1 MHz Bandwidth in OFDM	Chain 0	802.11g	1, 7, 13	BPSK	6Mb/s
Interference Prevention Function	-	Normal Operation			
Carrier Sense Capability	-	40MHz System	3, 7, 11	-	-

Note:
S : Sum of each Chain,
W : [Worst result] x [Number of antenna ports]
Partial RU (resource unit), channel puncturing and bandwidth reduction mechanisms are not supported.

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
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22	BV CPS E&E	(d)
Programmable DC Power Supply IDRC	DSP80-180WE	701217	Note 2	Note 2	BV CPS E&E	(d)
PXA Signal Analyzer Keysight	N9030A	MY54490260	2024/7/17	2025/7/16	ETC	(c)
Signal Analyzer R&S	FSV40	101042	2024/9/12	2025/9/11	ETC	(c)
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A	N/A	N/A

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 FLUKE meter to verify before each testing.
3. The test was performed in LK - Oven
4. Tested Date: 2025/7/5

4.2 Occupied Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22	BV CPS E&E	(d)
Programmable DC Power Supply IDRC	DSP80-180WE	701217	Note 2	Note 2	BV CPS E&E	(d)
PXA Signal Analyzer Keysight	N9030A	MY54490260	2024/7/17	2025/7/16	ETC	(c)
Signal Analyzer R&S	FSV40	101042	2024/9/12	2025/9/11	ETC	(c)
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A	N/A	N/A

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 FLUKE meter to verify before each testing.
3. The test was performed in LK - Oven
4. Tested Date: 2025/7/5 ~ 2025/7/7

4.3 Spurious Emissions

Refer to section 4.2 to get the tested date and information of the instruments.

4.4 Spurious Emissions of Receiver

Refer to section 4.2 to get the tested date and information of the instruments.

4.5 Antenna Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22	BV CPS E&E	(d)
MXG Vector Signal Generator Keysight	N5182B	MY53052658	2025/5/26	2026/5/25	ETC	(c)
Pulse Power Sensor Anritsu	MA2411B	0738404	2025/5/20	2026/5/19	ETC	(c)
PXA Signal Analyzer Keysight	N9030A	MY54490260	2024/7/17	2025/7/16	ETC	(c)
RF Power Meter Anritsu	ML2495A	0842014	2025/5/20	2026/5/19	ETC	(c)
Signal Analyzer R&S	FSV40	101042	2024/9/12	2025/9/11	ETC	(c)
Signal Generator Keysight	N5173B	MY53270724	2025/4/16	2026/4/15	ETC	(c)
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A	N/A	N/A
USB Wideband Power Sensor Keysight	U2021XA	MY55050005/ MY55190004/ MY55190007/ MY55210005	2024/7/29	2025/7/28	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 LK - Oven
3. Tested Date: 2025/7/4

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4.6 Number of Carriers within 1 MHz Bandwidth in OFDM

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22	BV CPS E&E	(d)
Programmable DC Power Supply IDRC	DSP80-180WE	701217	Note 2	Note 2	BV CPS E&E	(d)
Signal Analyzer R&S	FSV40	101042	2024/9/12	2025/9/11	ETC	(c)
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A	N/A	N/A
Wireless Connectivity Tester R&S	CMW270	102033	2024/9/25	2025/9/24	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 FLUKE meter to verify before each testing.
3. The test was performed in LK - Oven
4. Tested Date: 2025/7/28

4.7 Interference Prevention Function

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22	BV CPS E&E	(d)
Wireless Connectivity Tester R&S	CMW270	102033	2024/9/25	2025/9/24	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 test was performed in LK - Oven
3. Tested Date: 2025/7/28

4.8 Carrier Sense Capability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
MXG Vector Signal Generator Keysight	N5182B	MY53052658	2025/5/26	2026/5/25	ETC	(c)
Signal Analyzer R&S	FSV40	101042	2024/9/12	2025/9/11	ETC	(c)
		101544	2025/7/1	2026/6/30	ETC	(c)
Signal Generator Keysight	N5173B	MY53270724	2025/4/16	2026/4/15	ETC	(c)
Spectrum Analyzer R&S	FSU43	100115	2025/2/12	2026/2/11	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 LK - Adaptivity room.
3. Tested Date: 2025/7/28

5 Limits of Test Items

5.1 Frequency Tolerance

Tolerance of frequency shall be +/- 50ppm.

5.2 Occupied Bandwidth

Modulation Method	Limit
DSSS	<26 MHz
OFDM	<26 MHz
	26 – 40 MHz
FHSS	<83.5 MHz
Other Digital	<26 MHz

5.3 Spurious Emissions

Frequencies	Limit
Operating frequency 2400 to 2483.5 MHz	
30.0 MHz to 1000.0 MHz	≦ 0.25 uW/100 kHz
1000.0 MHz to 2387 MHz	≦ 2.5 uW/MHz
2387.0 MHz to 2400.0 MHz	≦ 25 uW/MHz
2483.5 MHz to 2496.5 MHz	≦ 25 uW/MHz
2496.5 MHz to 12500.0 MHz	≦ 2.5 uW/MHz

5.4 Spurious Emissions of Receiver

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

5.5 Antenna Power

Modulation System	Frequency Band Used	Antenna Power (Max.)	E.I.R.P. Limit (Note 3)
DSSS	2400 – 2483.5 MHz	10 mW/MHz	12.14 dBm/MHz ~ 22.14 dBm/MHz (16.368 mW/MHz ~ 163.68 mW/MHz)
OFDM (Note 1)	2400 – 2483.5 MHz	10 mW/MHz	12.14 dBm/MHz ~ 22.14 dBm/MHz (16.368 mW/MHz ~ 163.68 mW/MHz)
OFDM (Note 2)	2400 – 2483.5 MHz	5 mW/MHz	9.13 dBm/MHz ~ 19.13 dBm/MHz (8.184 mW/MHz ~ 81.84 mW/MHz)
FHSS	2400 – 2483.5 MHz	3 mW/MHz	6.91 dBm/MHz ~ 16.91 dBm/MHz (4.91 mW/MHz ~ 49.10 mW/MHz)
Other Digital	2400 – 2483.5 MHz	10 mW	12.14 dBm ~ 22.14 dBm (16.368 mW ~ 163.68 mW)

Notes:
1. Occupied bandwidth is less than 26 MHz.
2. Occupied bandwidth is more than 26 MHz and less than 40 MHz.
3. E.I.R.P. limit is variable by the HPBA, the HPBA (half-power beam width) of the antenna shall be 360 / A degrees or less, where A = E.I.R.P. / (2.14 dBi + “Antenna Power (limit)”).
4. Tolerance of antenna power shall be +20% (upper value).
5. When an E.I.R.P. is less than 2.14 dBi + antenna power limit. The shortage can be compensated for by the antenna power. (Application to transmitting devices using “Other method” is Limited to “GFSK”)

5.6 Number of Carriers within 1 MHz Bandwidth in OFDM

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

5.7 Interference Prevention Function

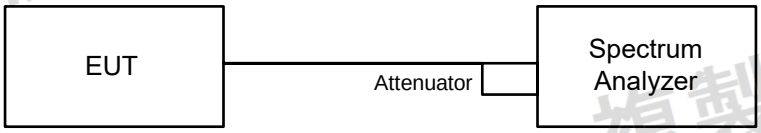
When conducting wireless communications that transmit data or other information: A function that automatically sends or receives an identification code.
When performing radiolocation work: A function that allows you to distinguish between reflected waves of radio waves transmitted by your own station and radio waves transmitted by other radio stations by identifying the modulation method and other characteristics of received radio waves. (However, if it also has the function of transmitting signals for data transmission, both functions shall be included.)

5.8 Carrier Sense Capability

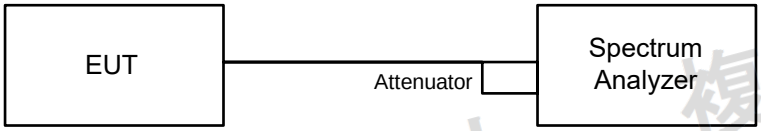
Radio equipment used carrier sensing mechanism that based detect and avoid capabilities.
Note: When the E.I.R.P. shortage is compensated by the antenna power, the transmitter shall have a carrier sensing function. (Excluding "Other method" transmitters that switch frequencies within 4 seconds from the start of transmission)

6 Test Arrangements

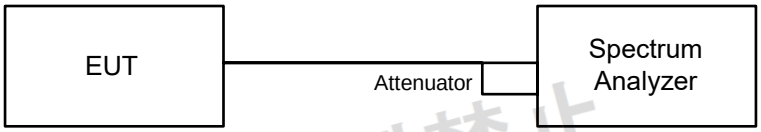
6.1 Frequency Tolerance



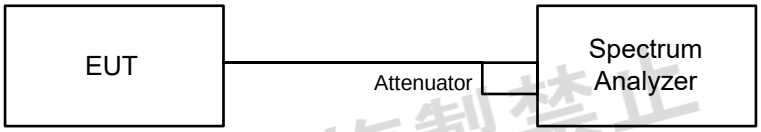
6.2 Occupied Bandwidth



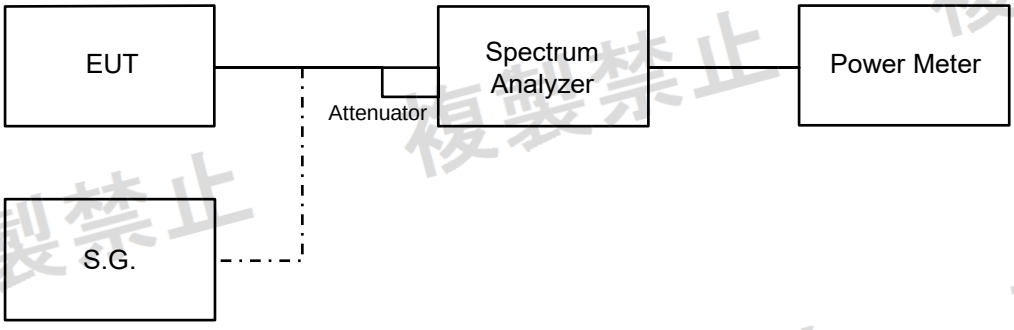
6.3 Spurious Emissions



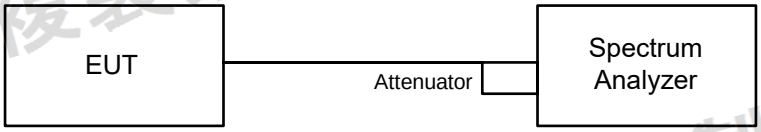
6.4 Spurious Emissions of Receiver



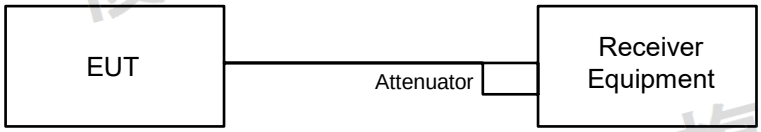
6.5 Antenna Power



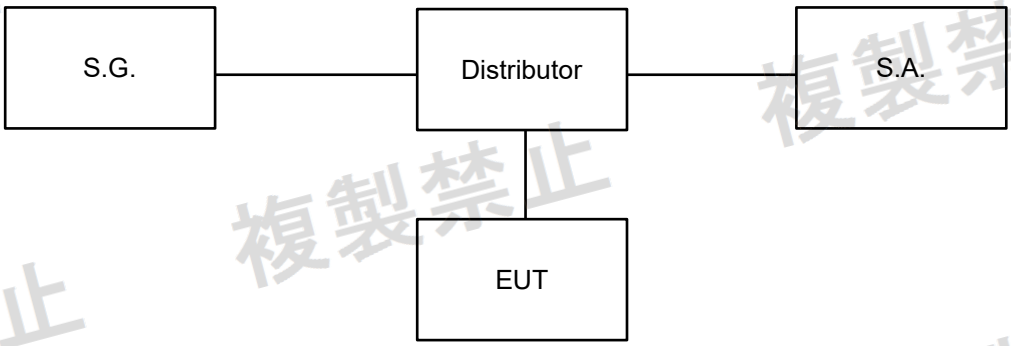
6.6 Number of Carriers within 1 MHz Bandwidth in OFDM



6.7 Interference Prevention Function



6.8 Carrier Sense Capability



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7 Test Results of Test Item

7.1 Frequency Tolerance

Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

20 MHz System Chain 0

Channel	Frequency (MHz)	V_{normal}	
		Carrier frequency (MHz)	Frequency tolerance (ppm)
1	2412	2412.001556	0.645
7	2442	2442.001077	0.441
13	2472	2472.001401	0.567

40 MHz System Chain 0

Channel	Frequency (MHz)	V_{normal}	
		Carrier frequency (MHz)	Frequency tolerance (ppm)
3	2422	2422.001877	0.775
7	2442	2442.002278	0.933
11	2462	2462.002081	0.845

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7.2 Occupied Bandwidth

Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

802.11b Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	13.06
7	2442	13.05
13	2472	12.95

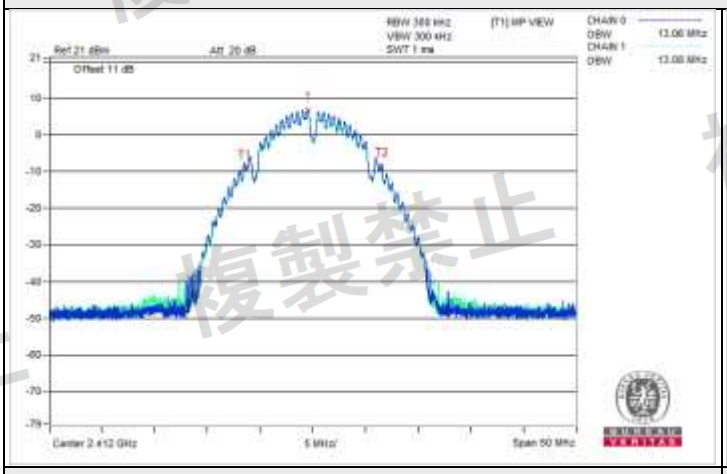
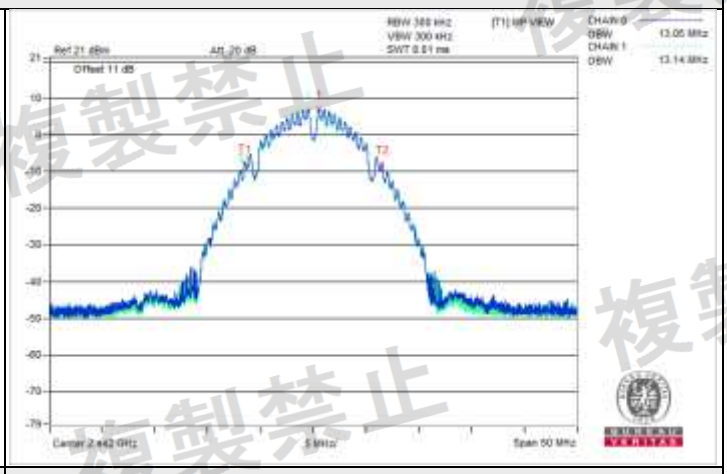
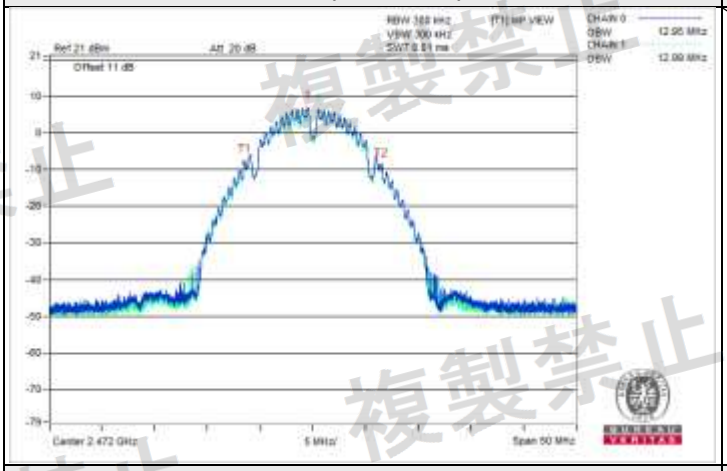
NOTE: For the test plots please refer to the below pages.

802.11b Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	13.08
7	2442	13.14
13	2472	12.99

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

802.11b Graph

V_{normal}	
	
CH 1 (2412 MHz)	CH 7 (2442 MHz)
	
CH 13 (2472 MHz)	

802.11g Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	16.75
7	2442	16.76
13	2472	16.74

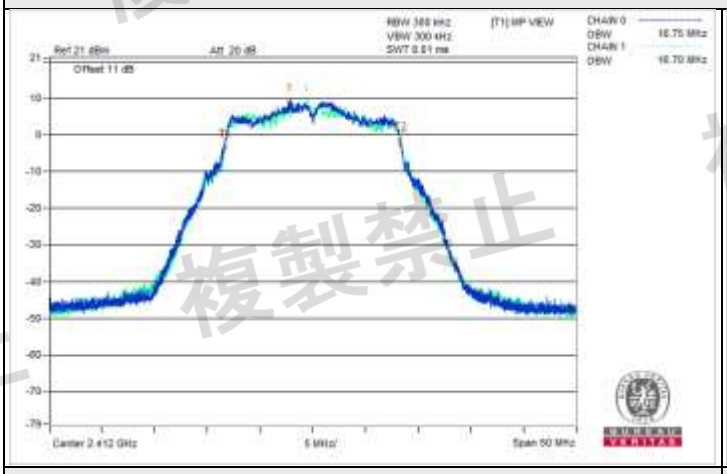
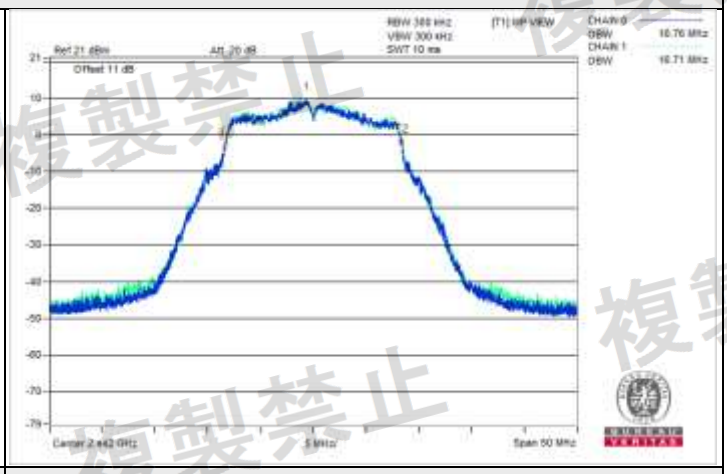
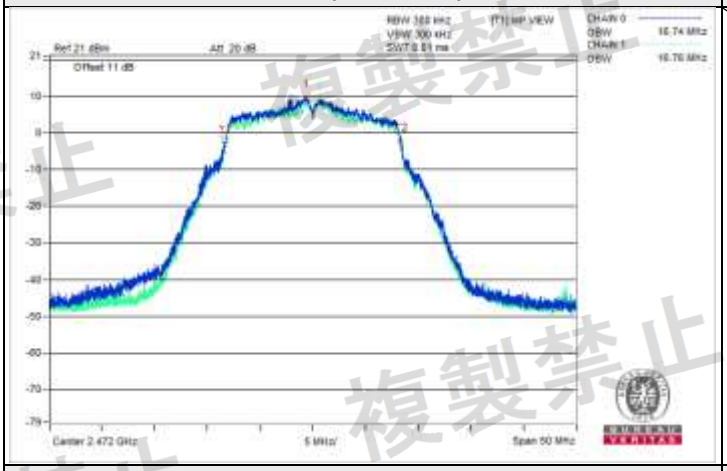
NOTE: For the test plots please refer to the below pages.

802.11g Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	16.70
7	2442	16.71
13	2472	16.76

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

802.11g Graph

V_{normal}	
	
CH 1 (2412 MHz)	CH 7 (2442 MHz)
	
CH 13 (2472 MHz)	

VHT20 Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	17.87
7	2442	17.85
13	2472	17.86

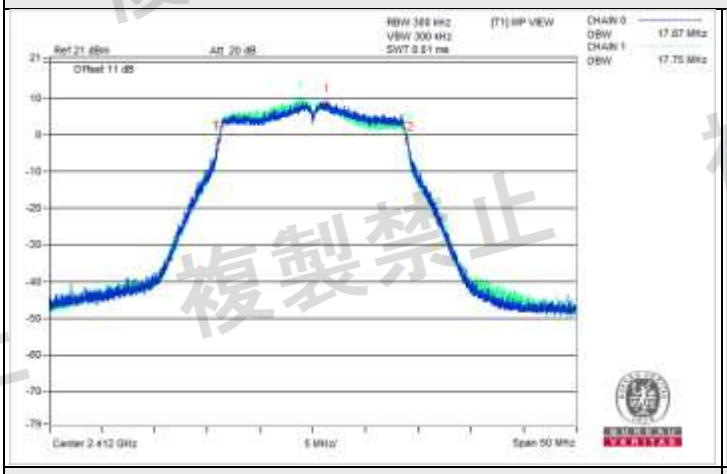
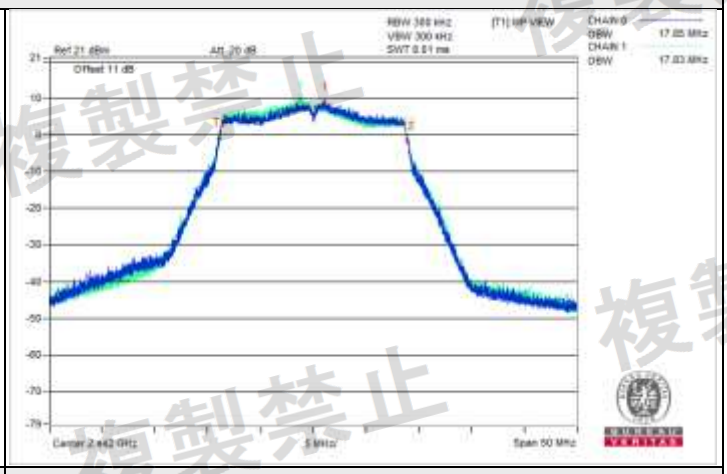
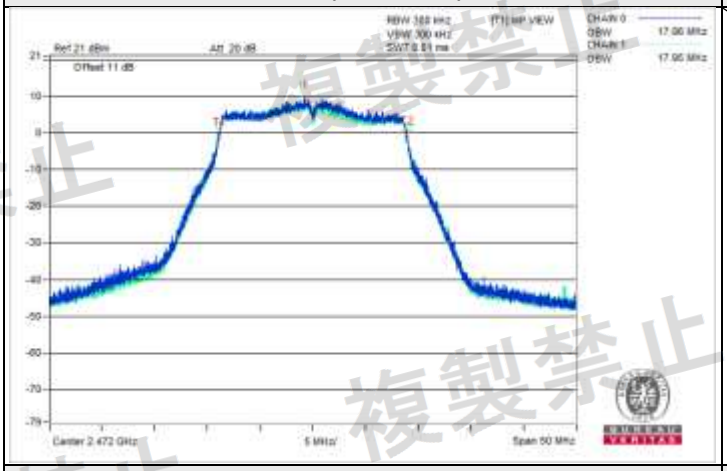
NOTE: For the test plots please refer to the below pages.

VHT20 Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	17.75
7	2442	17.83
13	2472	17.95

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

VHT20 Graph

V_{normal}	
	
CH 1 (2412 MHz)	CH 7 (2442 MHz)
	
CH 13 (2472 MHz)	

VHT40 Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
3	2422	36.06
7	2442	36.12
11	2462	36.00

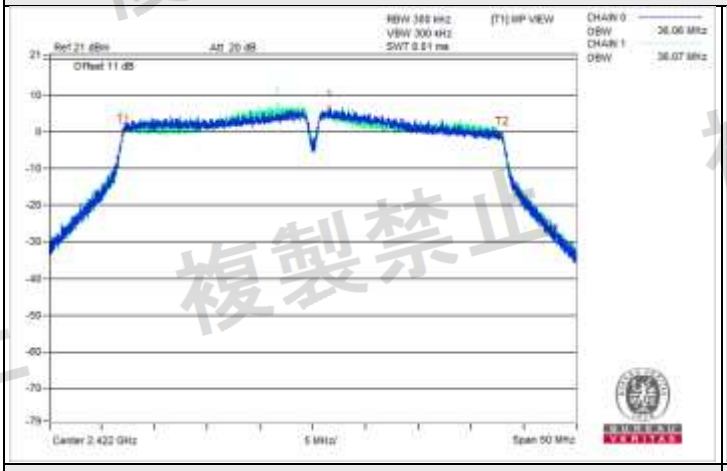
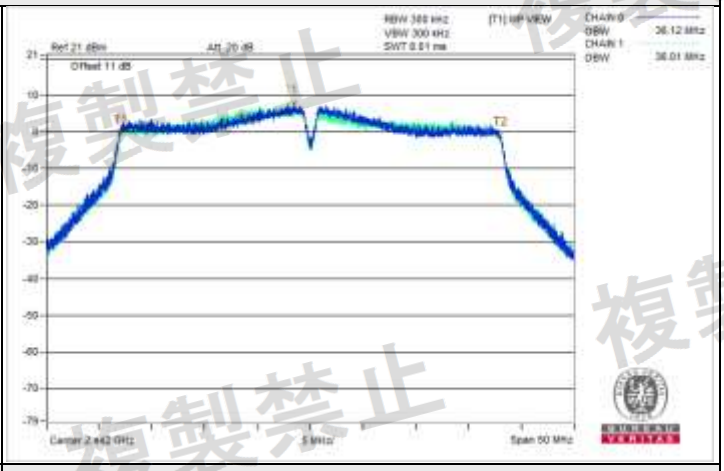
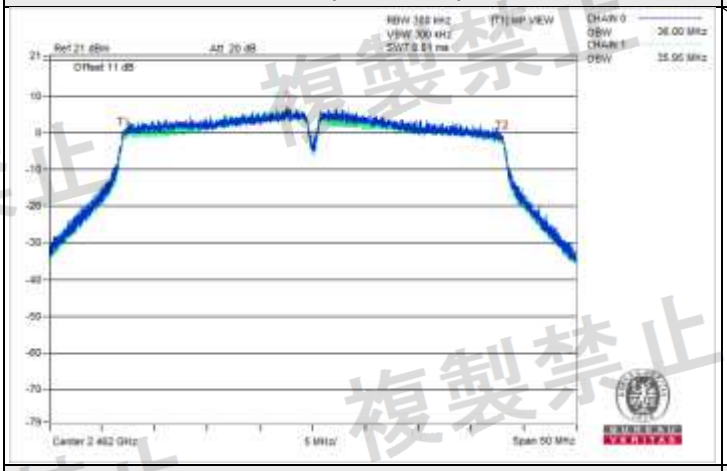
NOTE: For the test plots please refer to the below pages.

VHT40 Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
3	2422	36.07
7	2442	36.01
11	2462	35.95

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

VHT40 Graph

V_{normal}	
	
CH 3 (2422 MHz)	CH 7 (2442 MHz)
	
CH 11 (2462 MHz)	

802.11ax (HE20) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	18.89
7	2442	18.85
13	2472	19.01

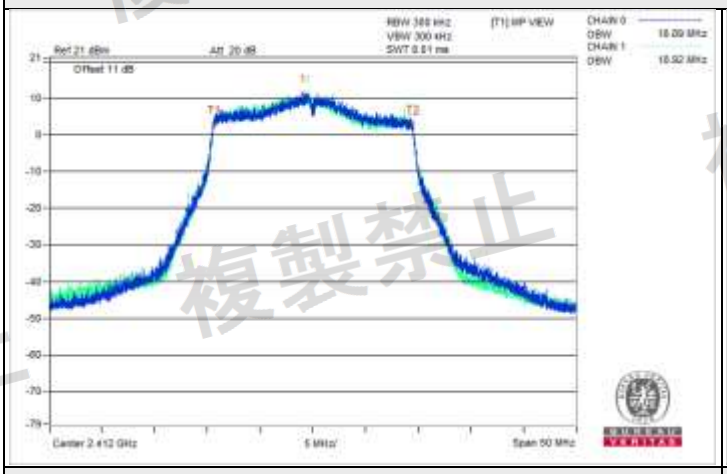
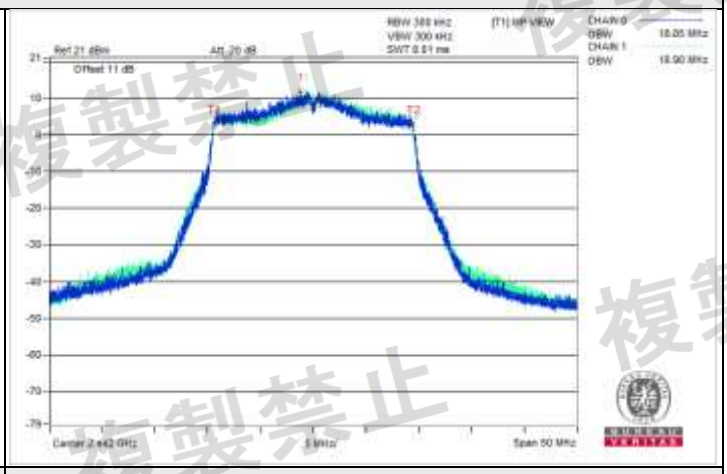
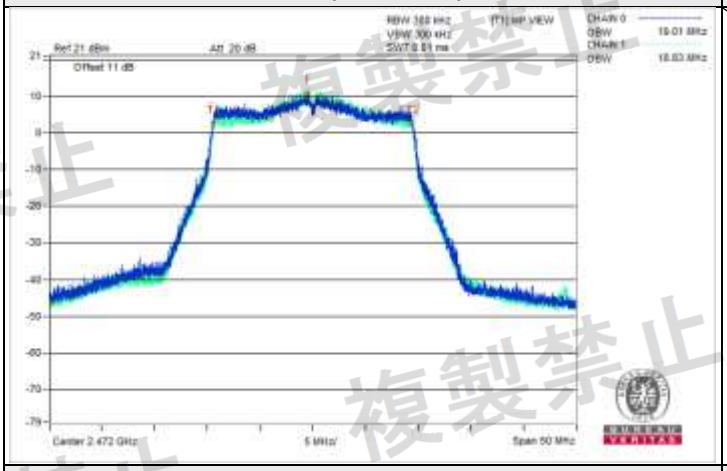
NOTE: For the test plots please refer to the below pages.

802.11ax (HE20) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	18.92
7	2442	18.90
13	2472	18.83

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

802.11ax (HE20) Graph

V_{normal}	
	
CH 1 (2412 MHz)	CH 7 (2442 MHz)
	
CH 13 (2472 MHz)	

802.11ax (HE40) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
3	2422	37.65
7	2442	37.77
11	2462	37.63

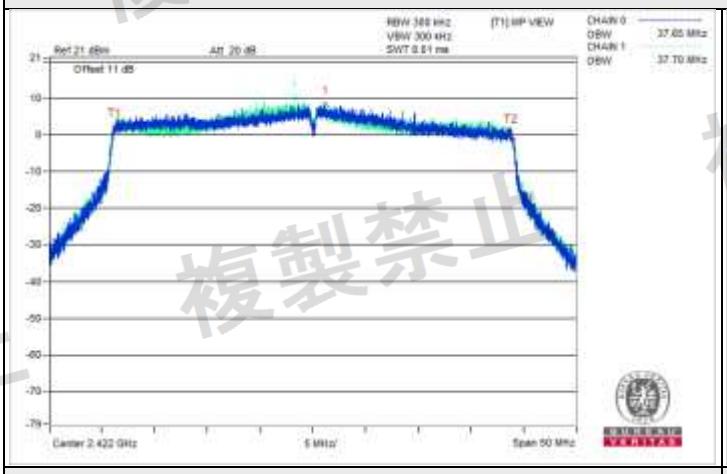
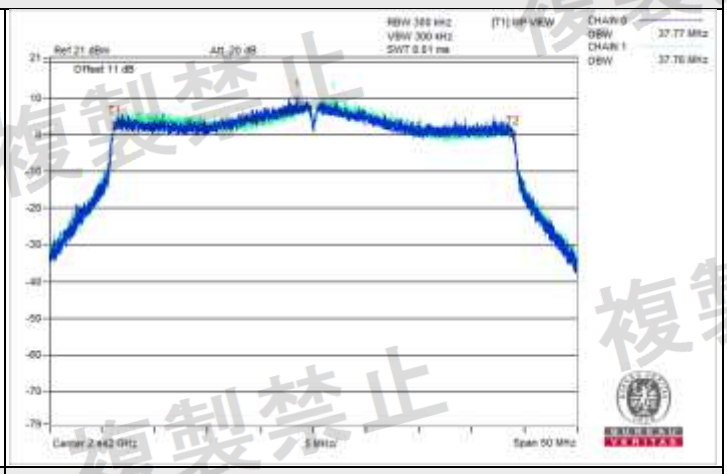
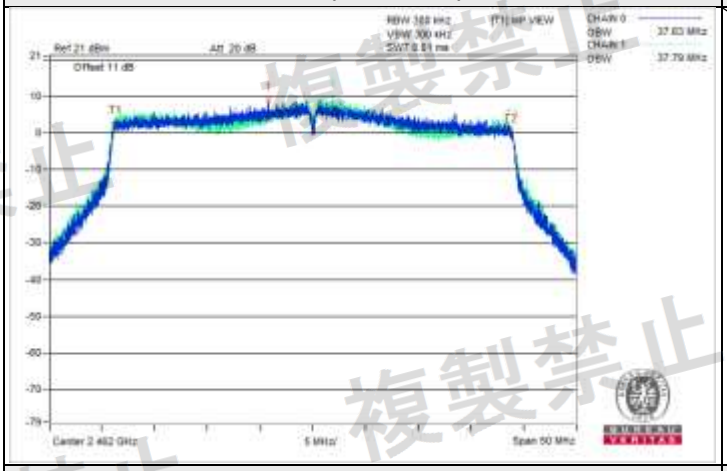
NOTE: For the test plots please refer to the below pages.

802.11ax (HE40) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
3	2422	37.70
7	2442	37.76
11	2462	37.79

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

802.11ax (HE40) Graph

V_{normal}	
	
CH 3 (2422 MHz)	CH 7 (2442 MHz)
	
CH 11 (2462 MHz)	

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802.11be (EHT20) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	18.98
7	2442	19.02
13	2472	18.88

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

802.11be (EHT20) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
1	2412	18.97
7	2442	18.90
13	2472	18.85

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

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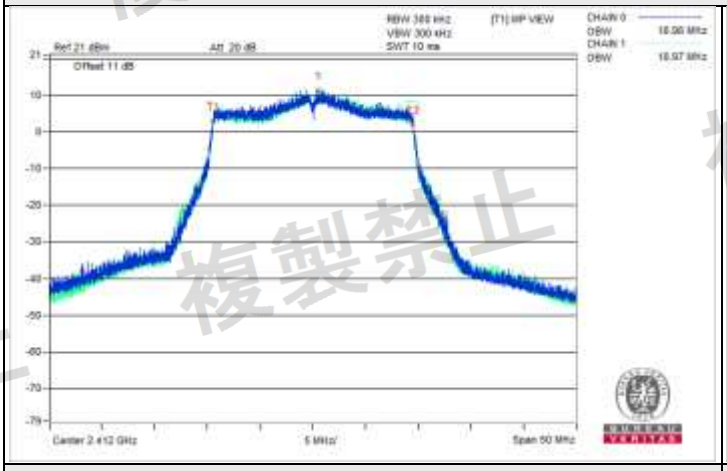
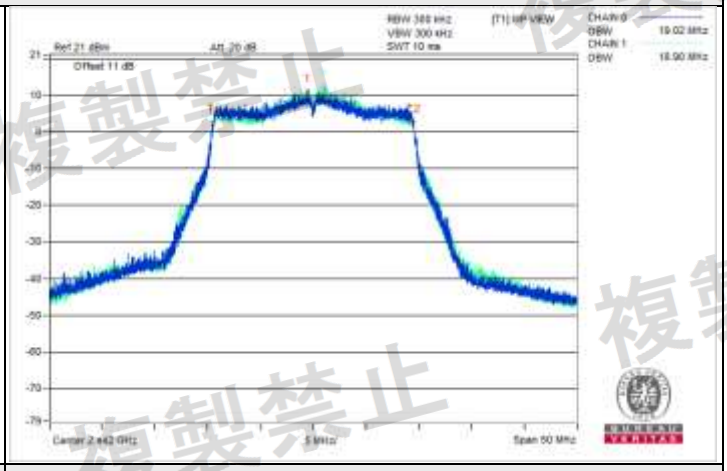
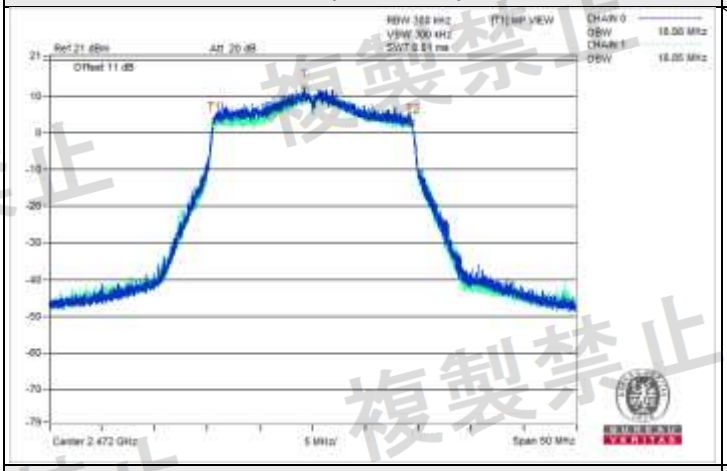
802.11be (EHT20) Graph

V_{normal}	
	
CH 1 (2412 MHz)	CH 7 (2442 MHz)
	
CH 13 (2472 MHz)	

802.11be (EHT40) Chain 0

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
3	2422	37.75
7	2442	37.75
11	2462	37.75

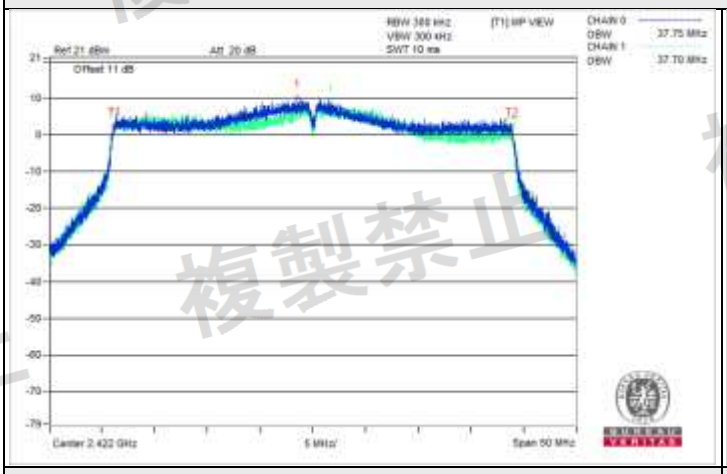
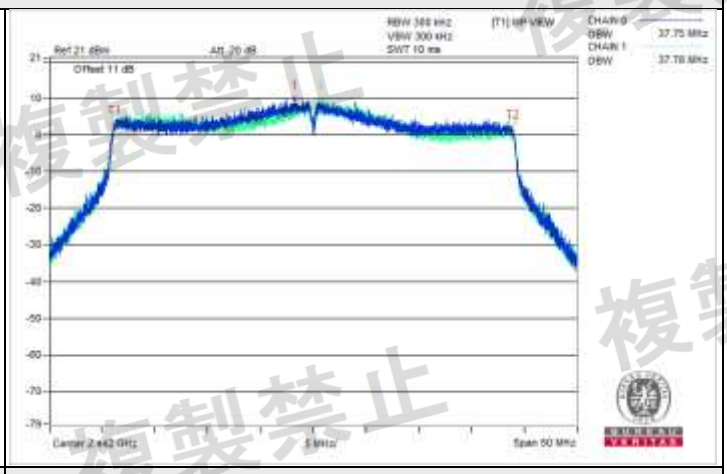
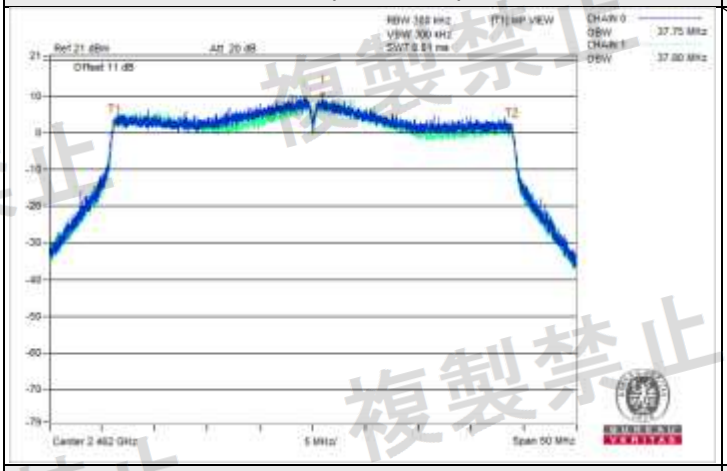
NOTE: For the test plots please refer to the below pages.

802.11be (EHT40) Chain 1

Channel	Frequency (MHz)	V_{normal}
		Occupied Bandwidth (MHz)
3	2422	37.70
7	2442	37.78
11	2462	37.80

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

802.11be (EHT40) Graph

V_{normal}	
	
CH 3 (2422 MHz)	CH 7 (2442 MHz)
	
CH 11 (2462 MHz)	

7.3 Spurious Emissions

Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

802.11b Chain 0

TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	239.399	0.00139 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2326.666	0.097499 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.777	1.244515 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2490.434	0.11885 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	12349.948	0.313329 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	957.684	0.001309 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2340.015	0.082794 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2398.988	0.091201 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2494.800	0.10666 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	6983.070	0.280543 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V_{normal}	30.0 to 1000.0	799.574	0.001384 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2334.988	0.104954 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2390.110	0.099312 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.518	1.5417 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	9796.554	0.276694 uW/MHz	1.25 uW/MHz	PASS

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

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802.11b Chain 1

TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	799.816	0.0014 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2199.755	0.085704 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2400.000	1.330454 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2496.242	0.107152 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11329.591	0.254683 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	834.009	0.001327 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2004.535	0.085901 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2398.549	0.093111 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2489.425	0.111944 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11964.813	0.25527 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V_{normal}	30.0 to 1000.0	921.187	0.001552 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2315.743	0.08356 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2398.456	0.086696 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.563	1.383566 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	12327.440	0.268534 uW/MHz	1.25 uW/MHz	PASS

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

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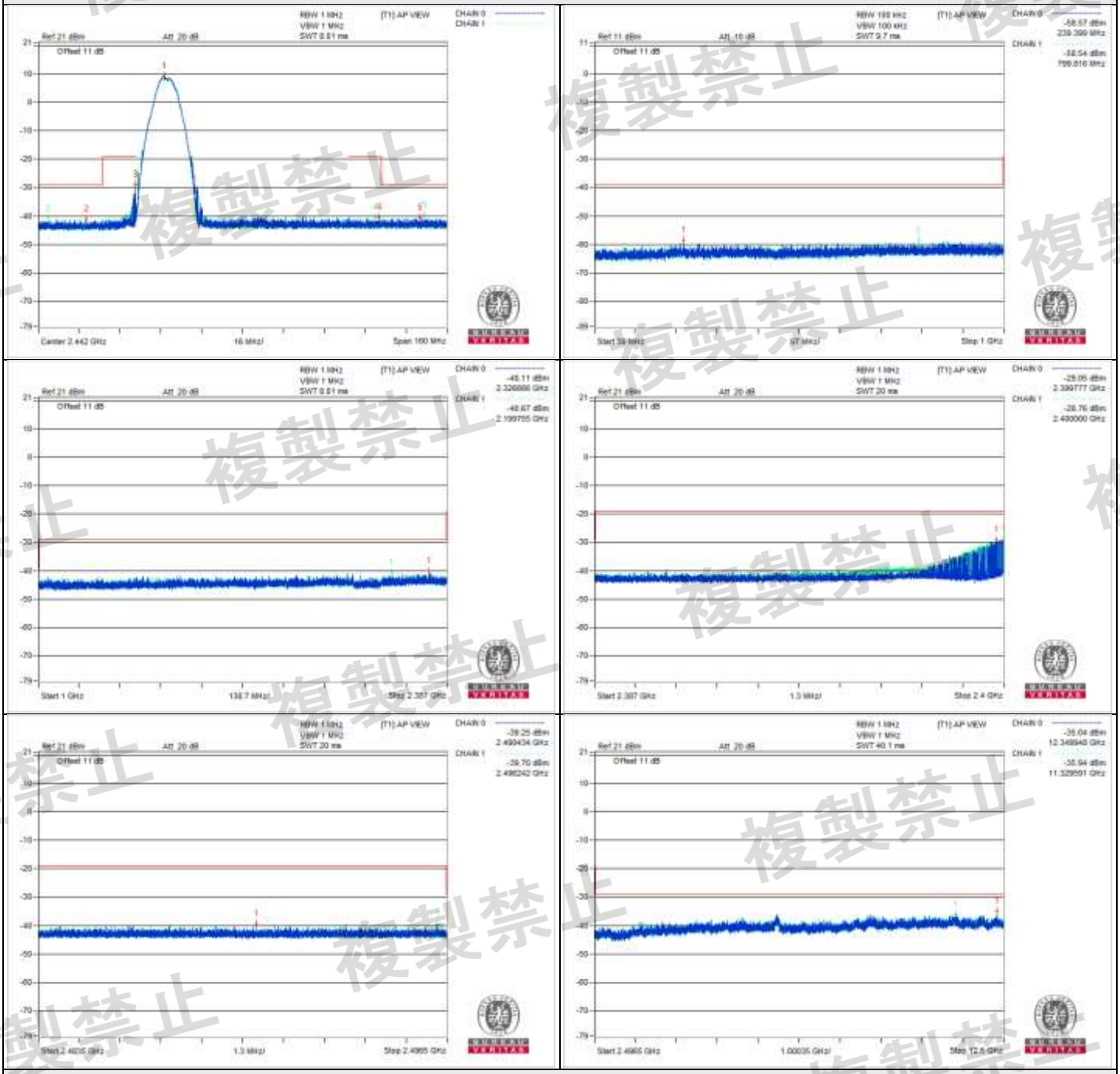
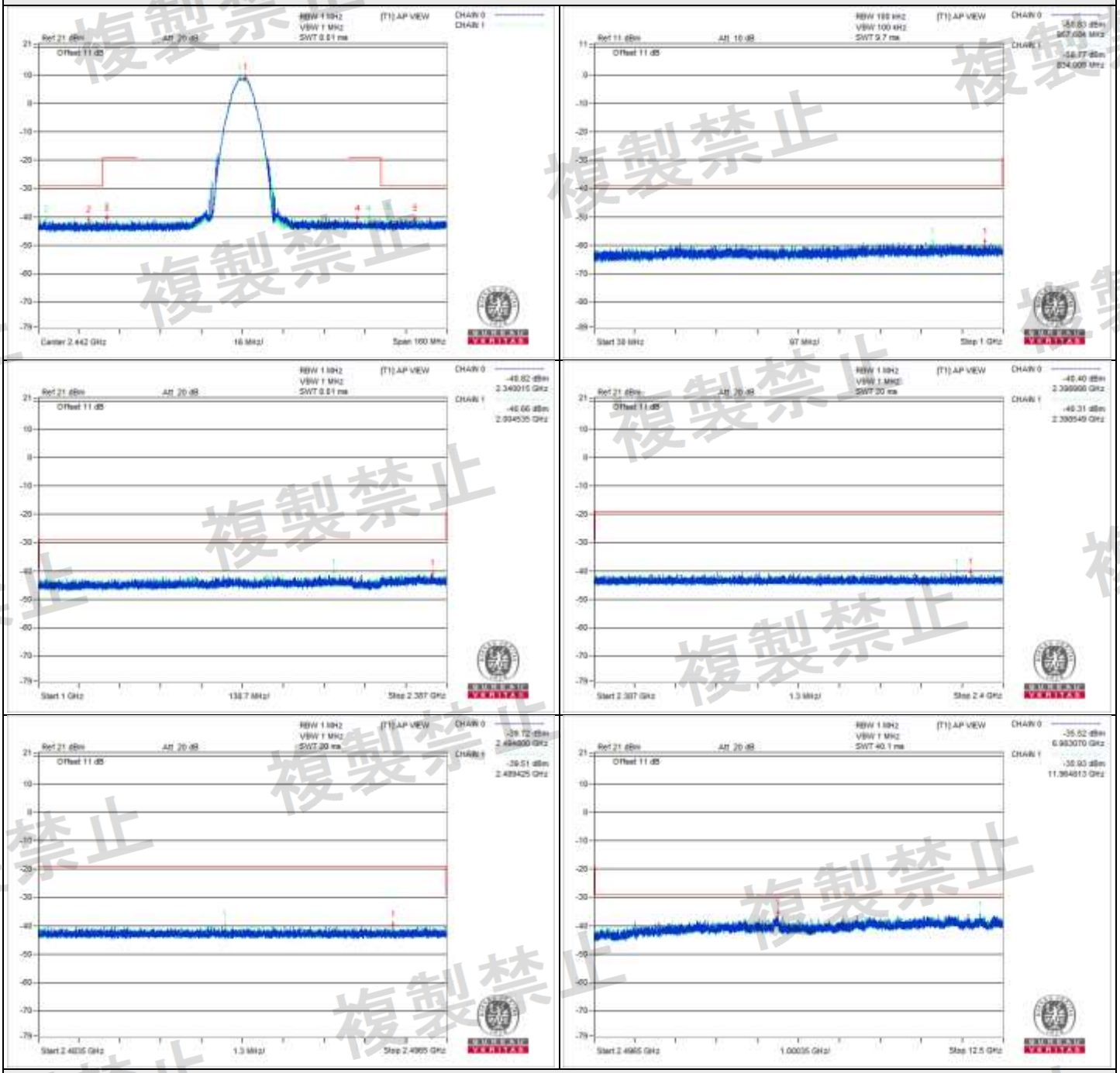
802.11b Graph

Vnormal



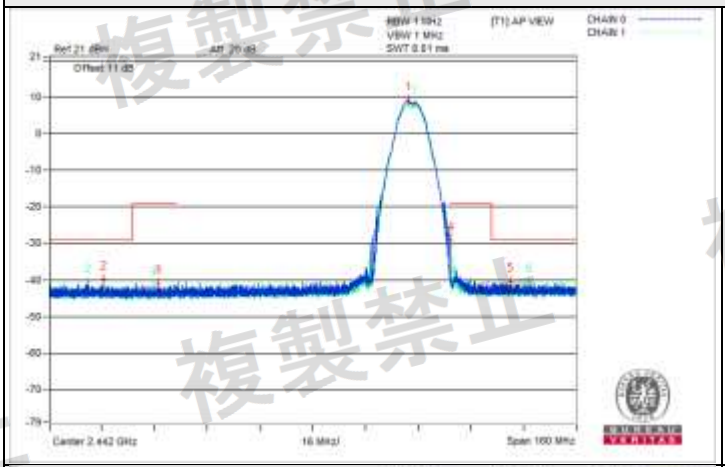
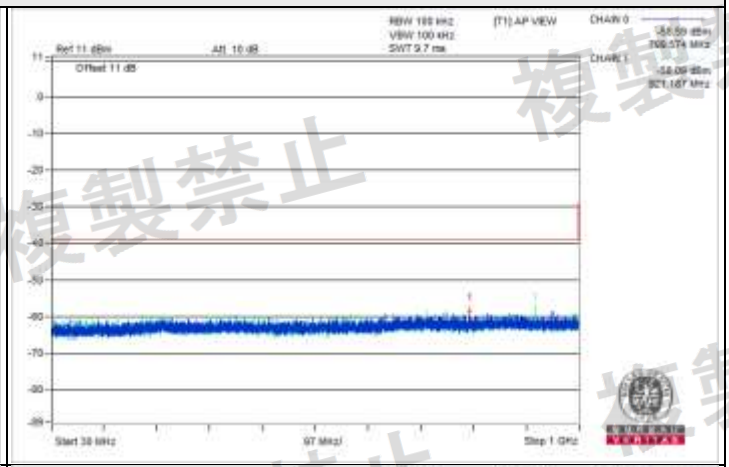
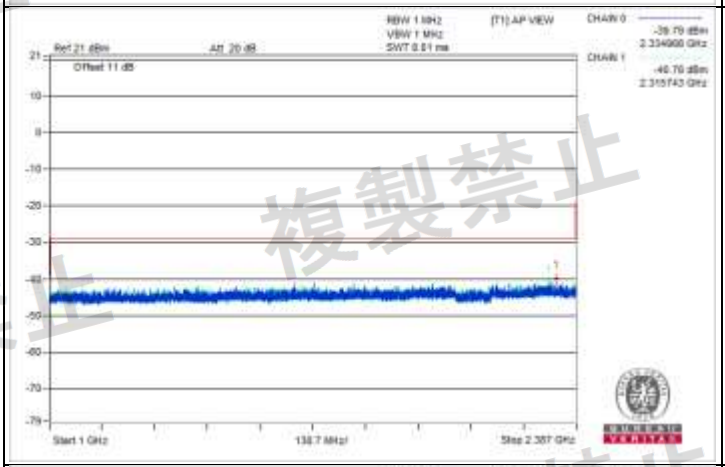
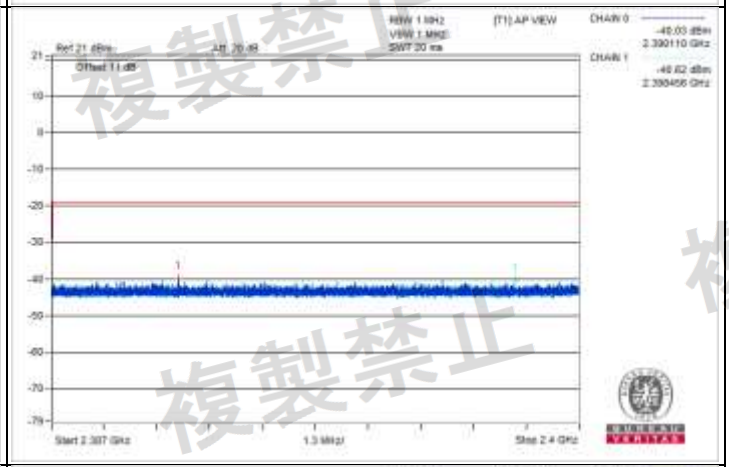
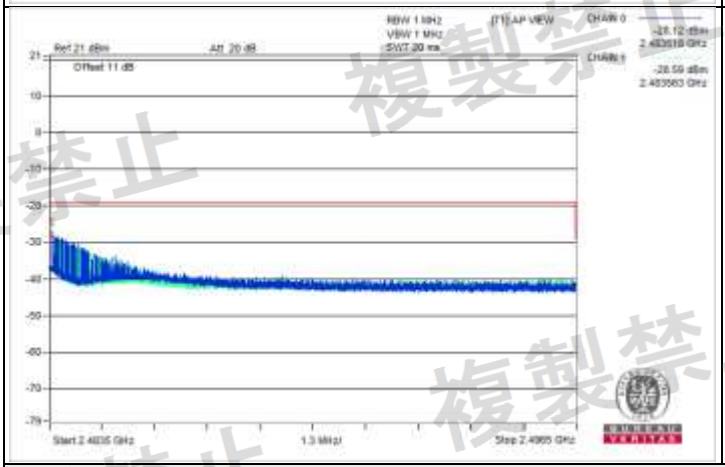
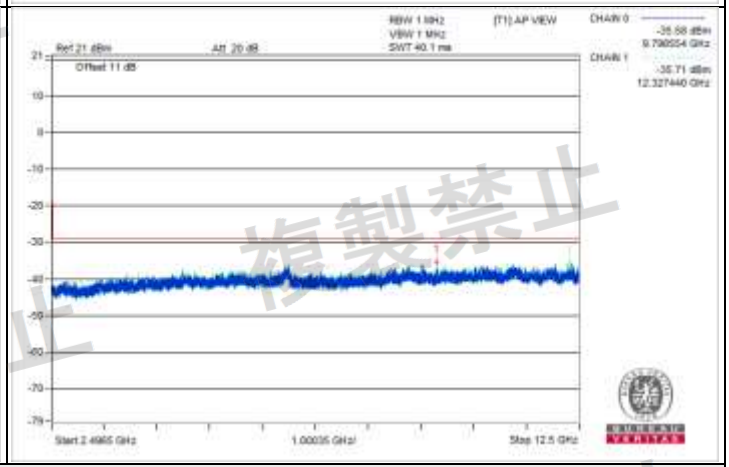
CH 1 (2412 MHz)

Vnormal



CH 7 (2442 MHz)

複製禁止

V_{normal}	
	
	
	
CH 13 (2472 MHz)	

複製禁止

802.11b [Worst result] x [Number of antenna ports]

TEST CHANNEL		CH 1 (2412 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	0.002800 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.194998 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	2.660908 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.237700 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.626658 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V_{normal}	30.0 to 1000.0	0.002654 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.171802 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.186222 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.223888 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.561086 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)		
V_{normal}	30.0 to 1000.0	0.003104 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.209908 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.198624 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	3.083400 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.553388 uW/MHz	2.5 uW/MHz	PASS

802.11g Chain 0

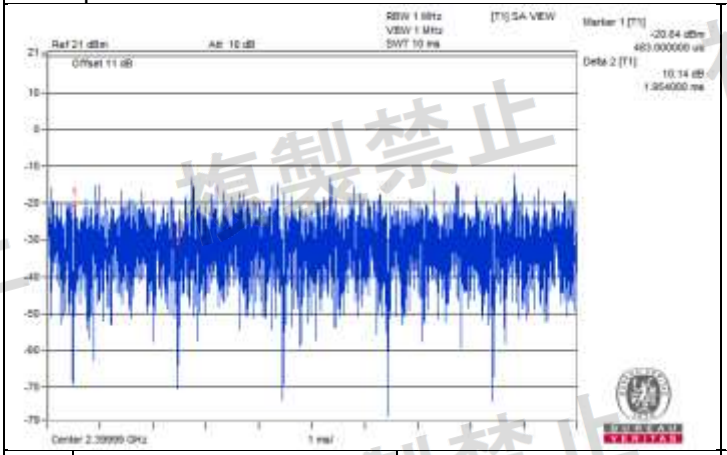
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	672.504	0.001387 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2202.009	0.279898 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.990	1.86933 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2484.304	0.112202 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	10735.633	0.291743 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	989.572	0.001507 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2251.074	0.090991 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2398.682	0.103514 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2495.276	0.11246 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11353.349	0.298538 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V_{normal}	30.0 to 1000.0	709.364	0.001455 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2280.548	0.129122 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.660	0.141254 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.562	2.79063 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	11370.855	0.260016 uW/MHz	1.25 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 (>400) and calculates the mean value.
5. It reports the mean value.



1	2399.990MHz	P = 1.86933 uW/MHz	2	2483.562MHz	P = 2.79063 uW/MHz

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802.11g Chain 1

TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	967.141	0.001426 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2226.281	0.119674 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.920	1.773994 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2496.373	0.137721 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11319.587	0.306902 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	666.562	0.001734 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2227.495	0.135207 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2396.908	0.137721 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2489.859	0.112202 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11098.260	0.272898 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V_{normal}	30.0 to 1000.0	650.315	0.001253 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2290.950	0.144877 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2388.256	0.13366 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.552	2.589758 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	10819.412	0.246604 uW/MHz	1.25 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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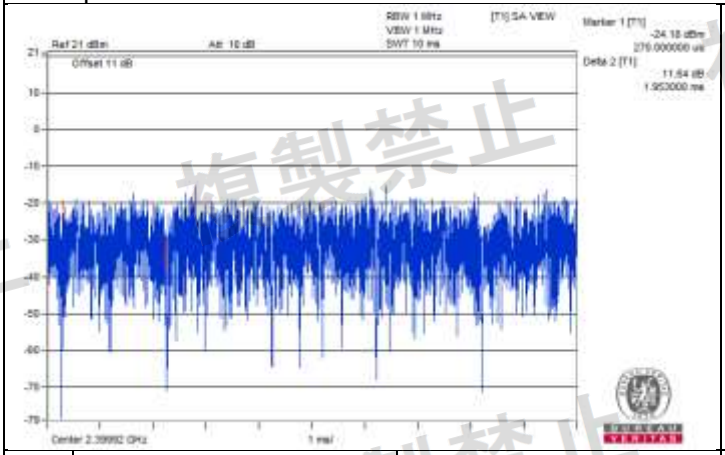
Measuring Mode *Zero Span

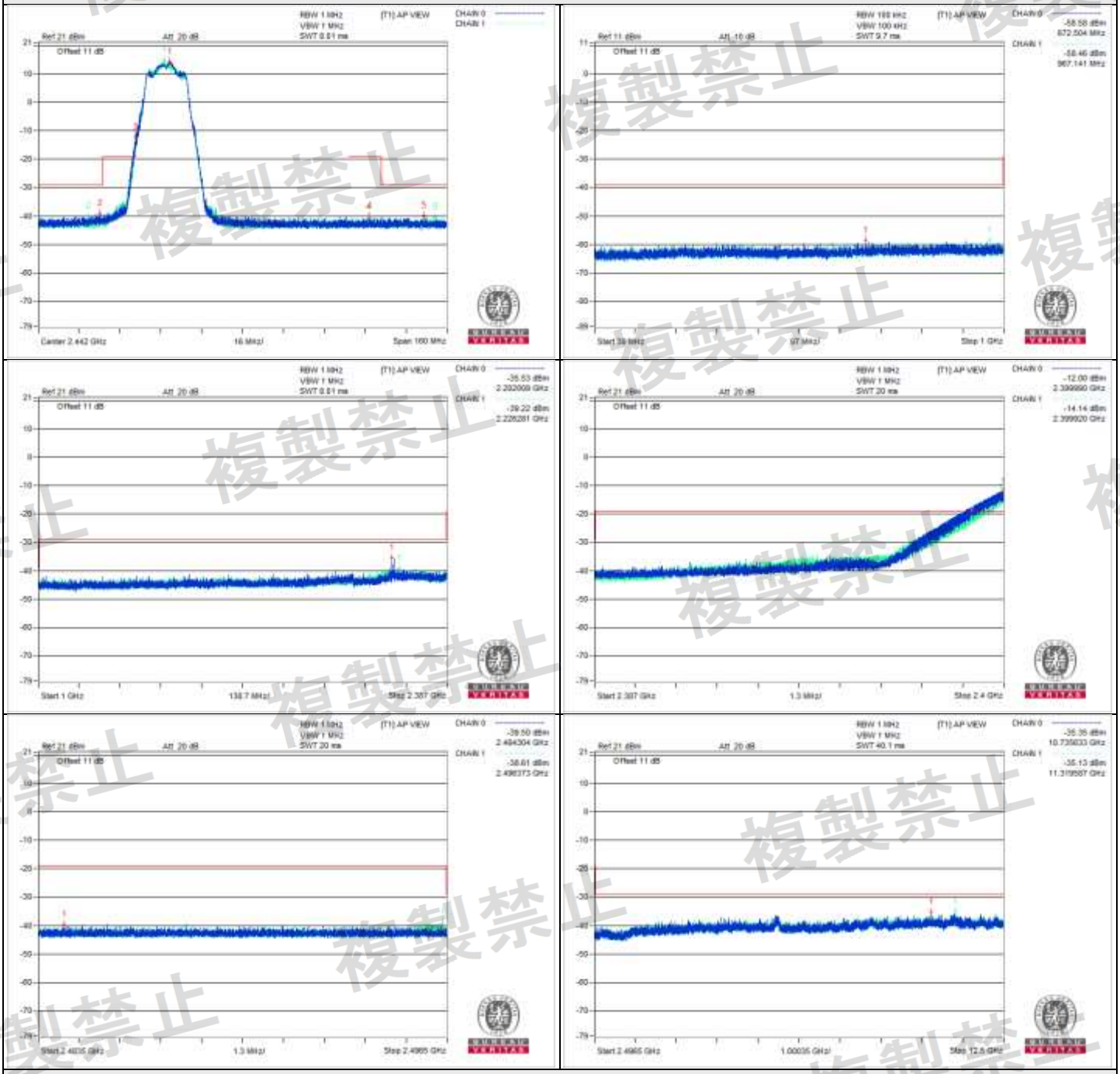
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (>400) and calculates the mean value.
5. It reports the mean value.



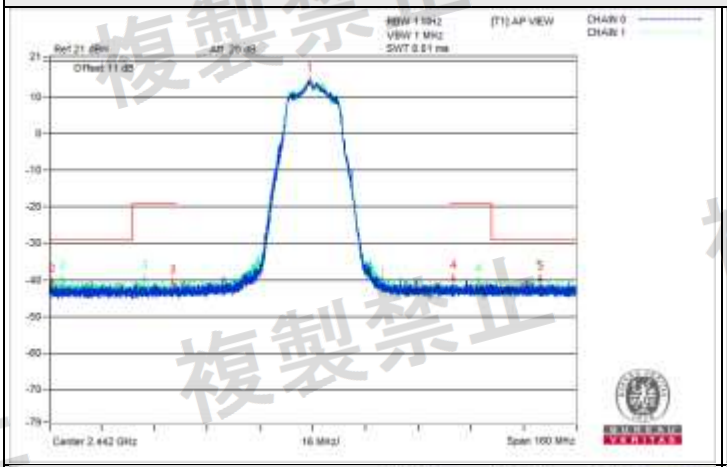
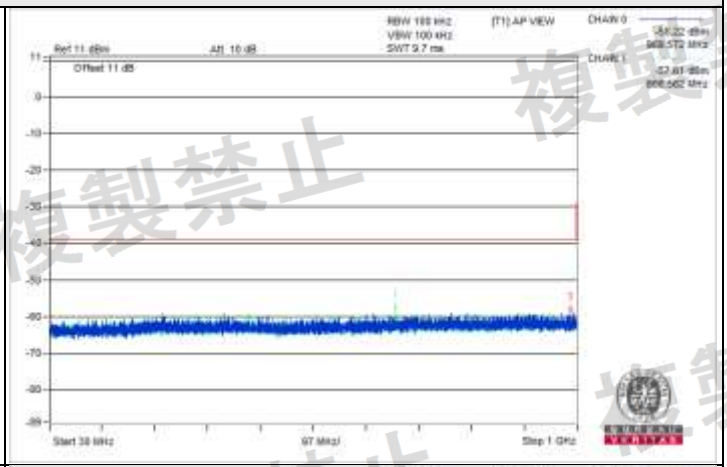
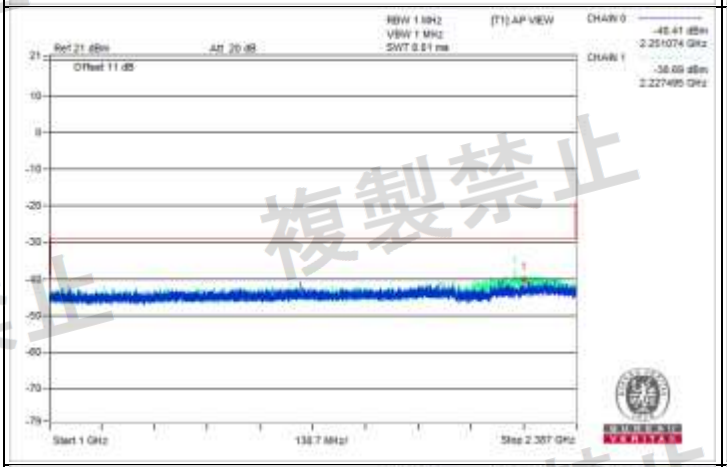
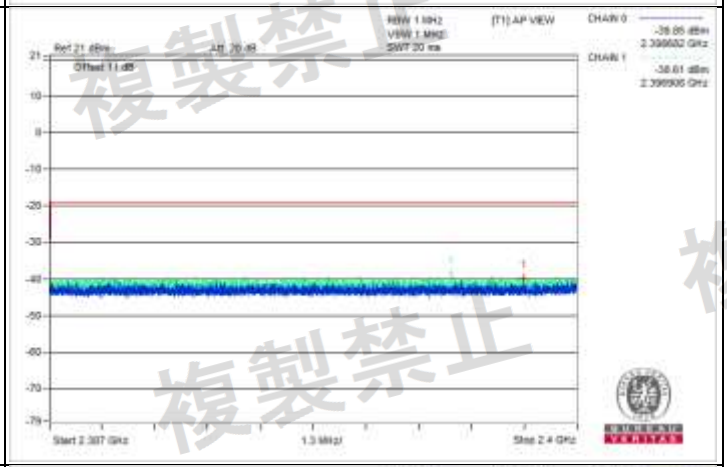
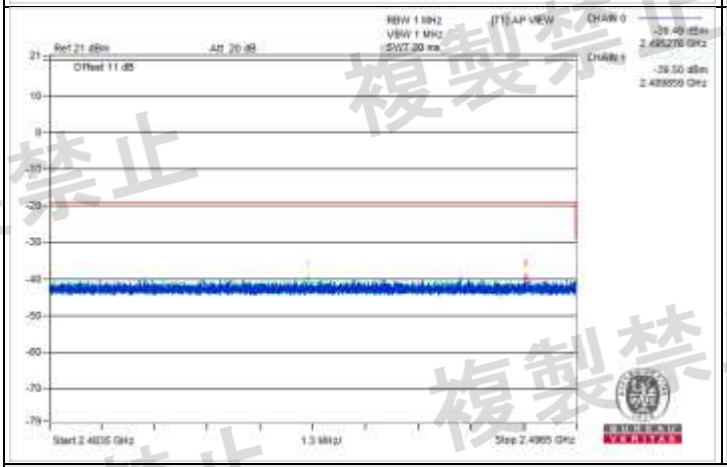
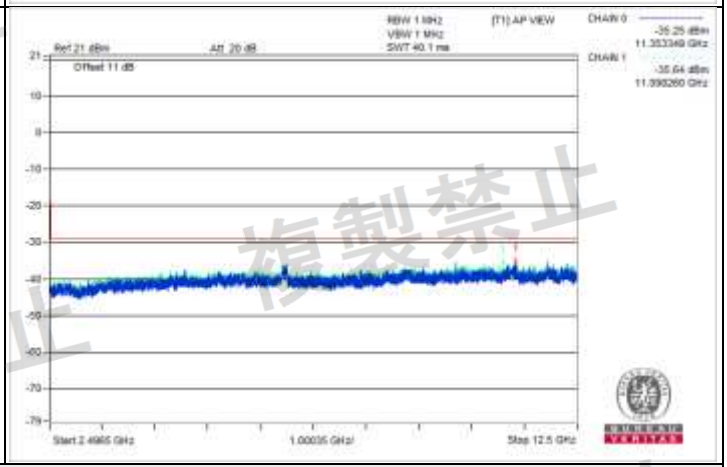
1	2399.920MHz	P = 1.773994 uW/MHz	2	2483.552MHz	P = 2.589758 uW/MHz

802.11g Graph

Vnormal

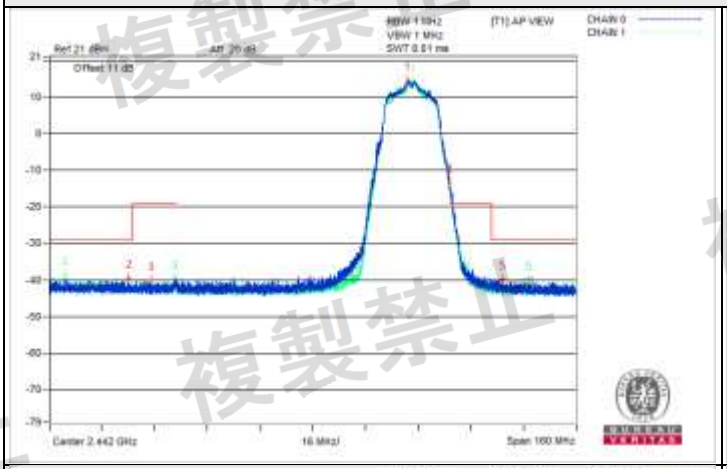


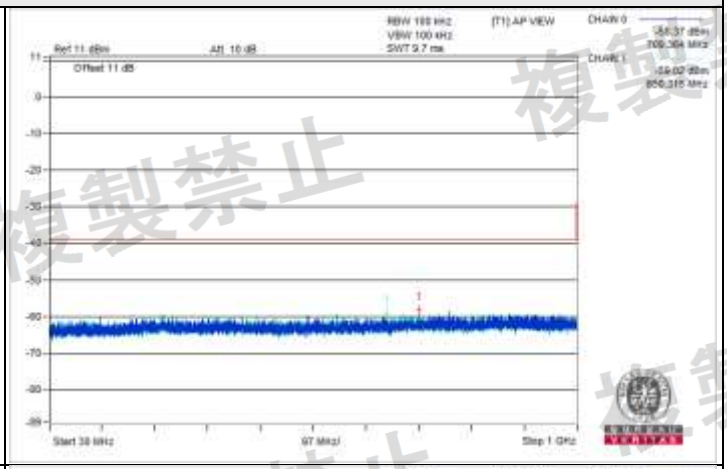
CH 1 (2412 MHz)

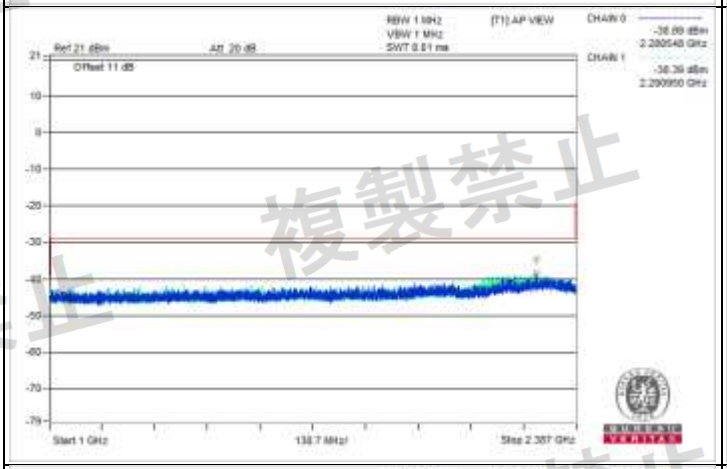
V_{normal}	
	
	
	
CH 7 (2442 MHz)	

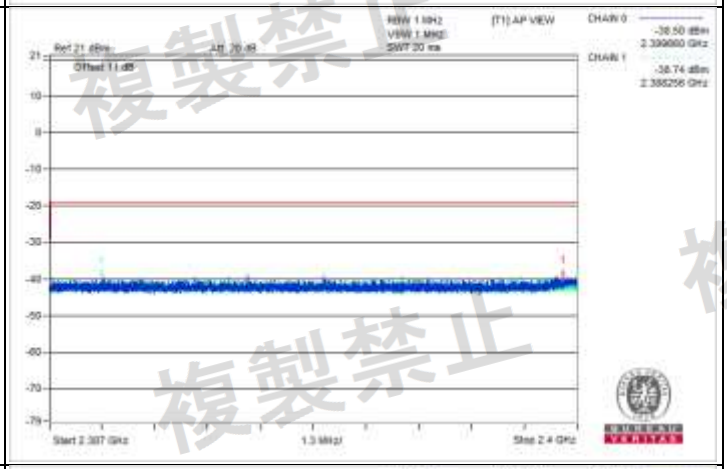
複製禁止

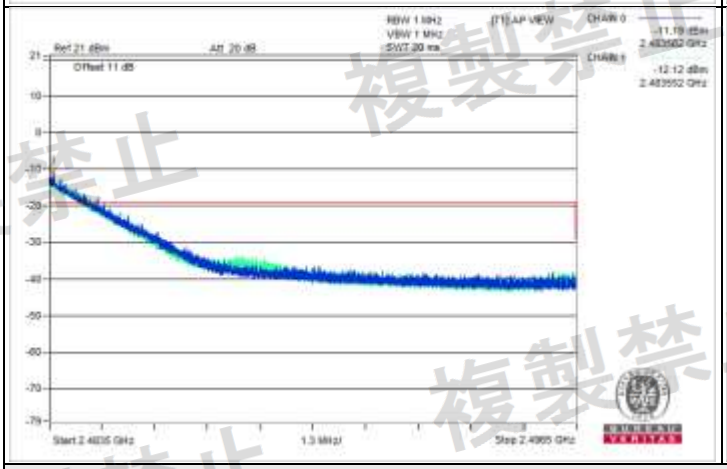
Vnormal

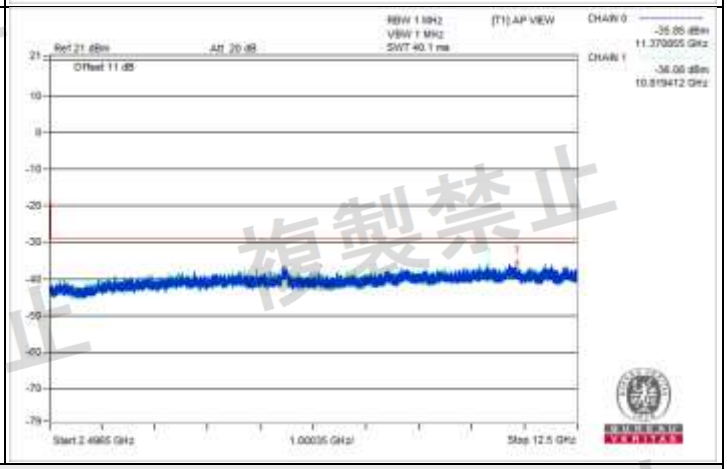












CH 13 (2472 MHz)

複製禁止

802.11g [Worst result] x [Number of antenna ports]

TEST CHANNEL		CH 1 (2412 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	0.002852 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.559796 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	3.738660 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.275442 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.613804 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V_{normal}	30.0 to 1000.0	0.003468 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.270414 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.275442 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.224920 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.597076 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)		
V_{normal}	30.0 to 1000.0	0.002910 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.289754 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.282508 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	5.581260 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.520032 uW/MHz	2.5 uW/MHz	PASS

VHT20 Chain 0

TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	722.701	0.001374 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2198.715	0.168655 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.922	2.372213 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2490.434	0.114551 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	6925.550	0.258821 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	762.229	0.001306 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2255.755	0.098401 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2396.584	0.108643 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2488.583	0.116681 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11293.328	0.276694 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V_{normal}	30.0 to 1000.0	582.173	0.001321 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2223.507	0.12735 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.890	0.12735 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.584	3.575044 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	12344.946	0.257632 uW/MHz	1.25 uW/MHz	PASS

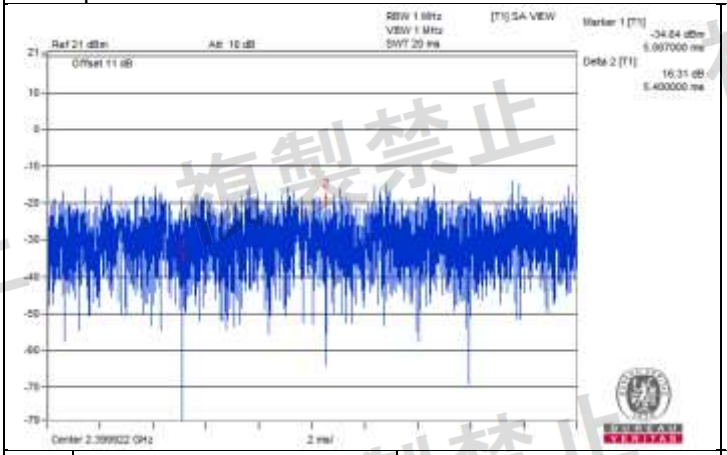
NOTE: 1. The spectrum plots are attached on the following pages.

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 (>400) and calculates the mean value.
5. It reports the mean value.



1	2399.922MHz	P = 2.372213 uW/MHz	2	2483.584MHz	P = 3.575044 uW/MHz

VHT20 Chain 1

TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	965.201	0.001282 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2174.789	0.122744 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.971	2.106382 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2491.388	0.111686 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	12403.716	0.275423 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	738.949	0.00151 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2282.802	0.162181 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2392.694	0.154525 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2496.108	0.145546 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11348.347	0.291743 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V_{normal}	30.0 to 1000.0	995.029	0.001227 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2296.151	0.140929 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2389.826	0.127938 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.653	3.767591 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	11639.699	0.272898 uW/MHz	1.25 uW/MHz	PASS

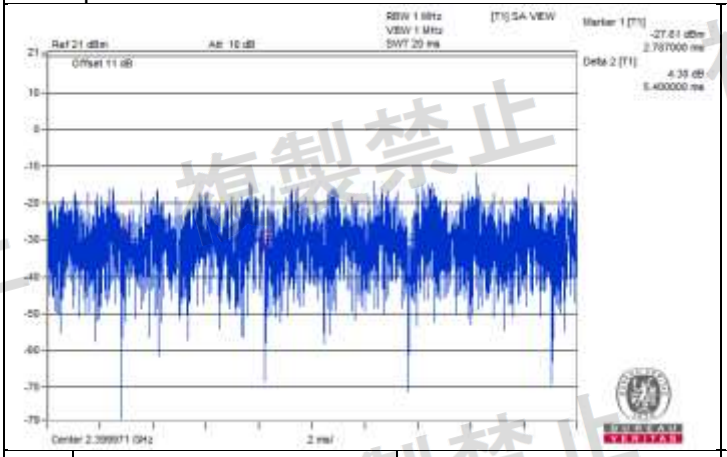
NOTE: 1. The spectrum plots are attached on the following pages.

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

複製禁止

Measuring Mode *Zero Span

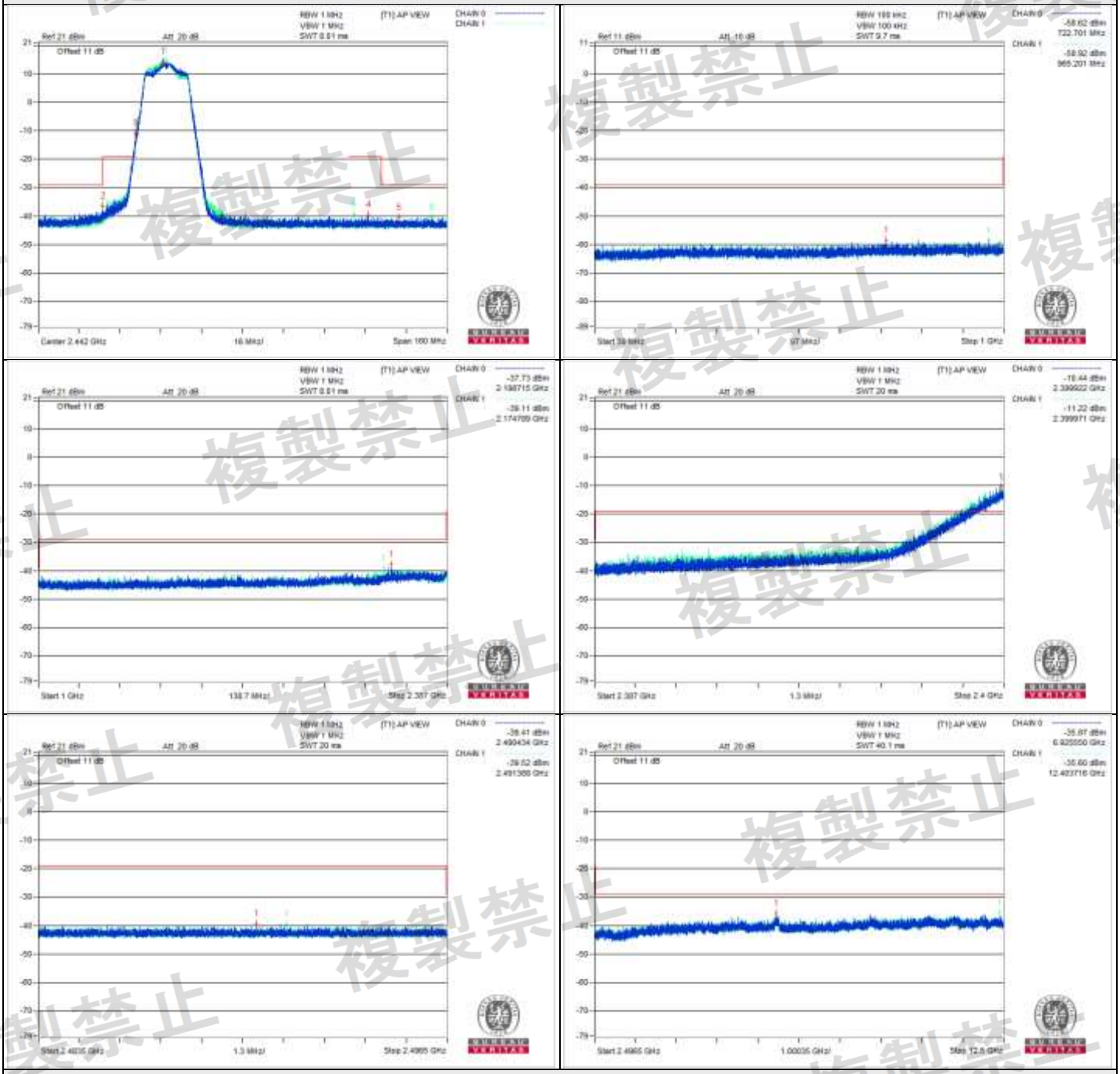
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (>400) and calculates the mean value.
5. It reports the mean value.



1	2399.971MHz	P = 2.106382 uW/MHz	2	2483.653MHz	P = 3.767591 uW/MHz

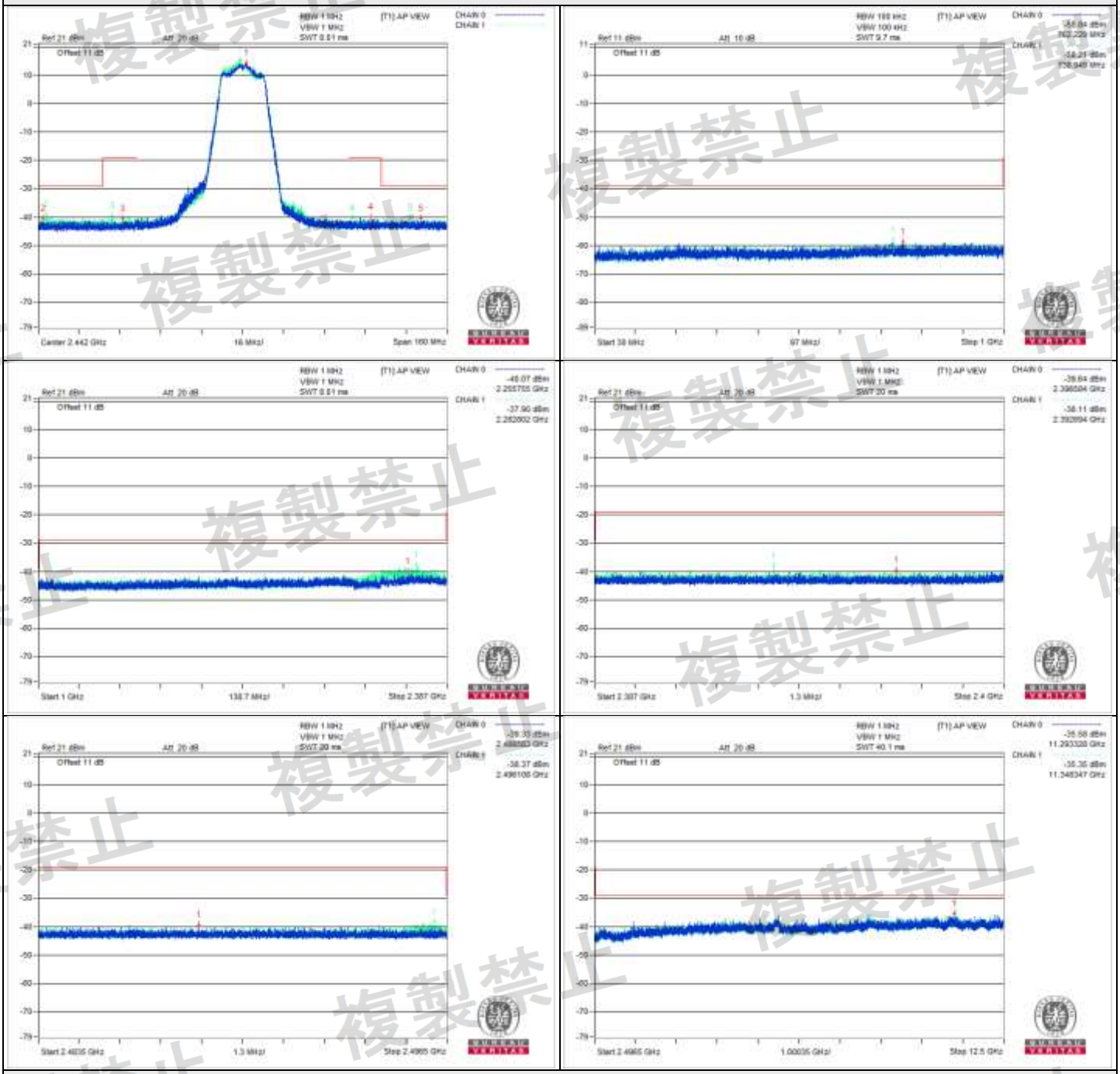
VHT20 Graph

Vnormal



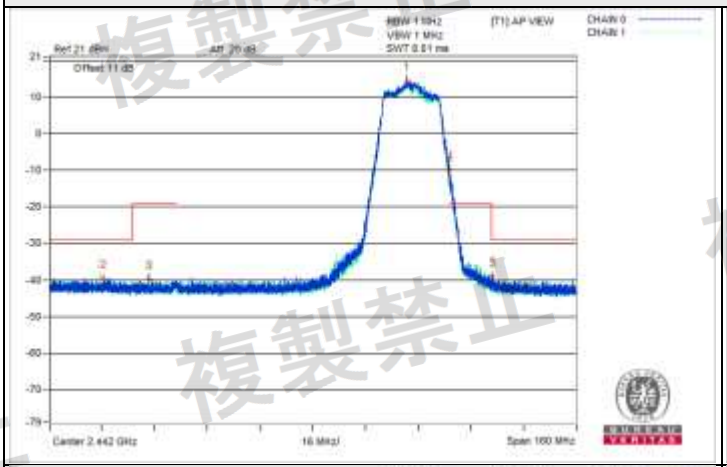
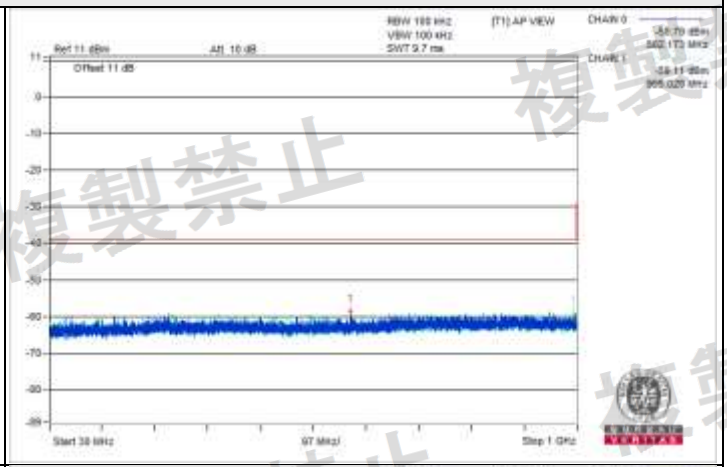
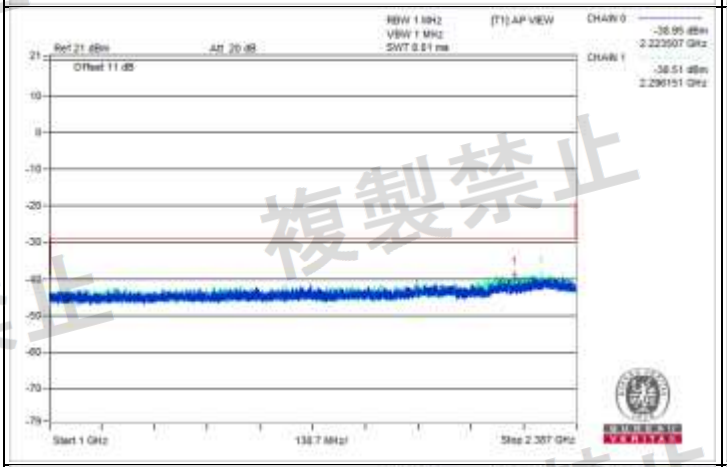
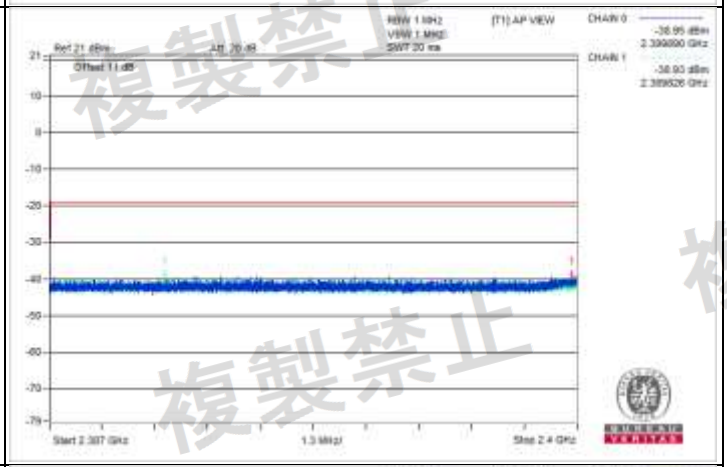
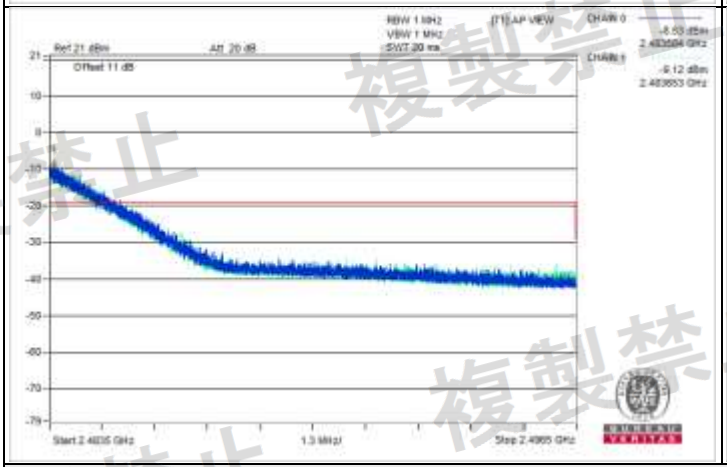
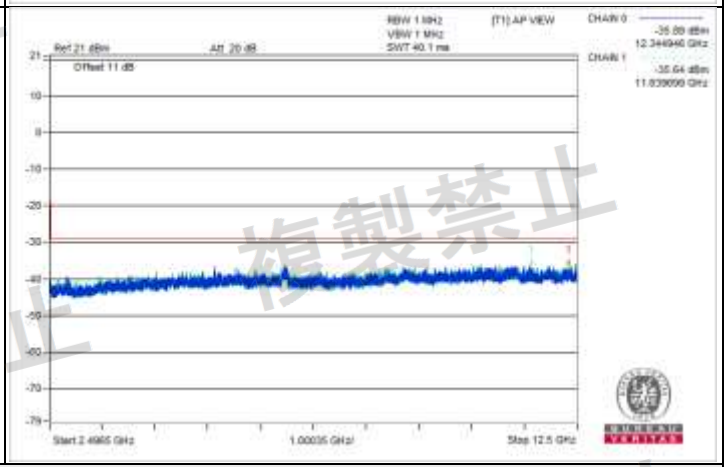
CH 1 (2412 MHz)

Vnormal



CH 7 (2442 MHz)

複製禁止

V_{normal}	
	
	
	
CH 13 (2472 MHz)	

複製禁止

VHT20 [Worst result] x [Number of antenna ports]

TEST CHANNEL		CH 1 (2412 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	0.002748 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.337310 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	4.744426 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.229102 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.550846 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V_{normal}	30.0 to 1000.0	0.003020 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.324362 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.309050 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.291092 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.583486 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)		
V_{normal}	30.0 to 1000.0	0.002642 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.281858 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.255876 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	7.535182 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.545796 uW/MHz	2.5 uW/MHz	PASS

複製禁止

VHT40 Chain 0

TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	775.081	0.001274 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2385.093	0.274157 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.981	1.960686 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2489.378	0.107895 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11307.083	0.288403 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	395.933	0.001679 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2273.786	0.115878 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2393.555	0.509331 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2487.702	0.157761 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11303.331	0.325837 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V_{normal}	30.0 to 1000.0	691.783	0.001288 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2358.220	0.114025 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.630	0.174985 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.822	1.319202 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	12052.343	0.287078 uW/MHz	1.25 uW/MHz	PASS

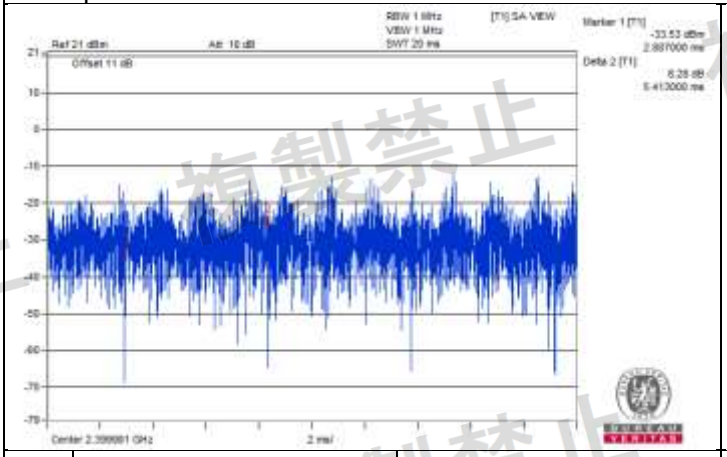
NOTE: 1. The spectrum plots are attached on the following pages.

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 (>400) and calculates the mean value.
5. It reports the mean value.



1	2399.981MHz	P = 1.960686 uW/MHz	2	2483.822MHz	P = 1.319202 uW/MHz

VHT40 Chain 1

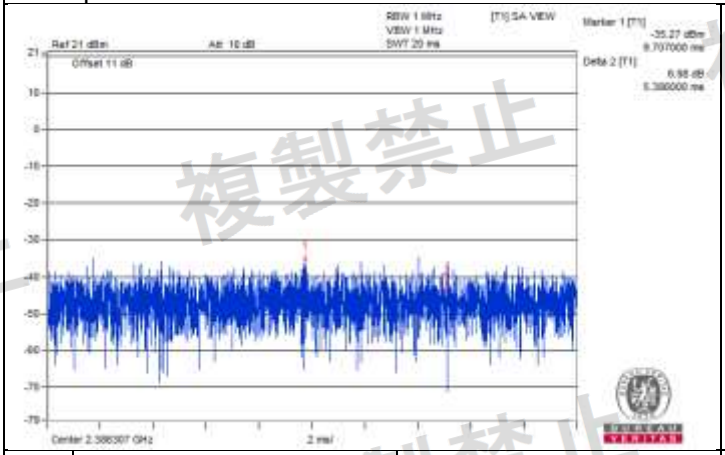
TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	996.726	0.001256 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2386.307	0.031343 uW/MHz	1.25 uW/MHz	PASS(1)
	2387.0 to 2400.0	2399.789	2.099783 uW/MHz	12.5 uW/MHz	PASS(2)
	2483.5 to 2496.5	2491.807	0.11695 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11227.055	0.28774 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	747.800	0.001355 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2280.894	0.158489 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2397.354	0.591562 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2484.153	0.214783 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	9251.363	0.293765 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V_{normal}	30.0 to 1000.0	244.491	0.001291 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2192.300	0.198609 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2389.234	0.12106 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.700	1.436375 uW/MHz	12.5 uW/MHz	PASS(3)
	2496.5 to 12500.0	10705.622	0.356451 uW/MHz	1.25 uW/MHz	PASS

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

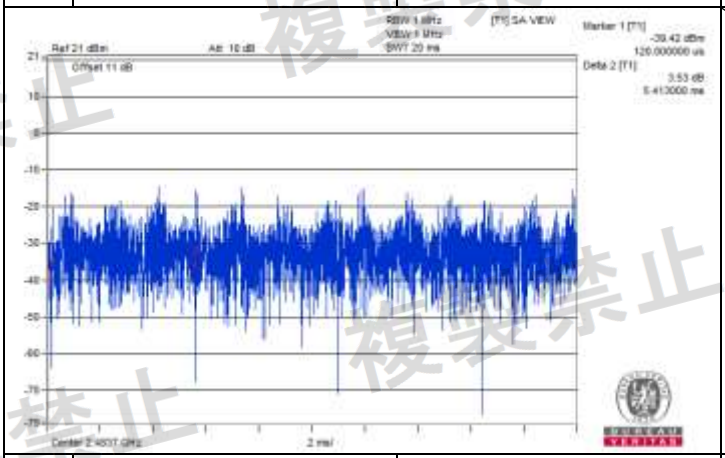
2. (No.): The value was tested under Measuring Mode *Zero Span.

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 (>400) and calculates the mean value.
5. It reports the mean value.



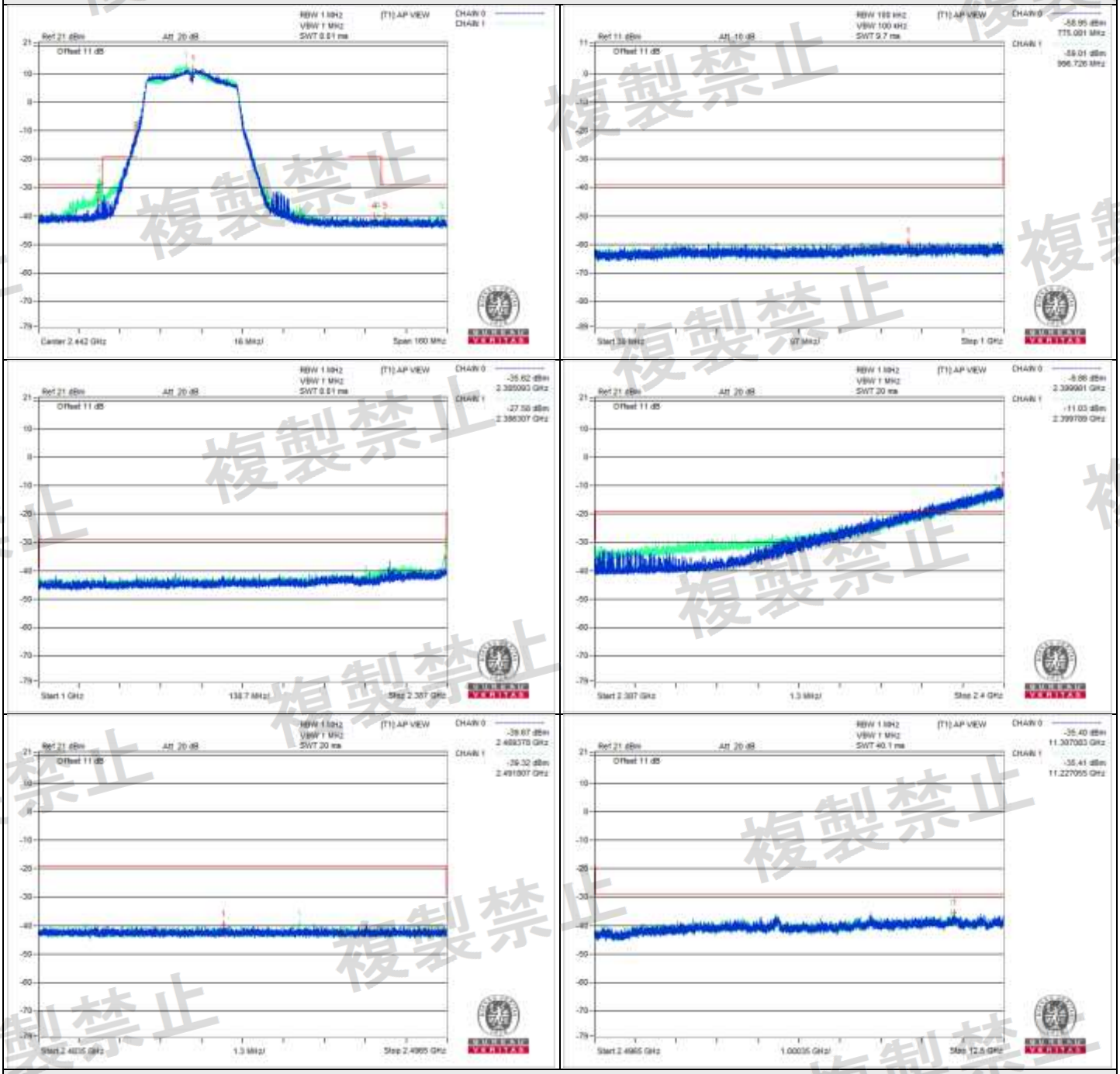
1	2386.307MHz	P = 0.031343 uW/MHz	2	2399.789MHz	P = 2.099783 uW/MHz



3	2483.700MHz	P = 1.436375 uW/MHz			

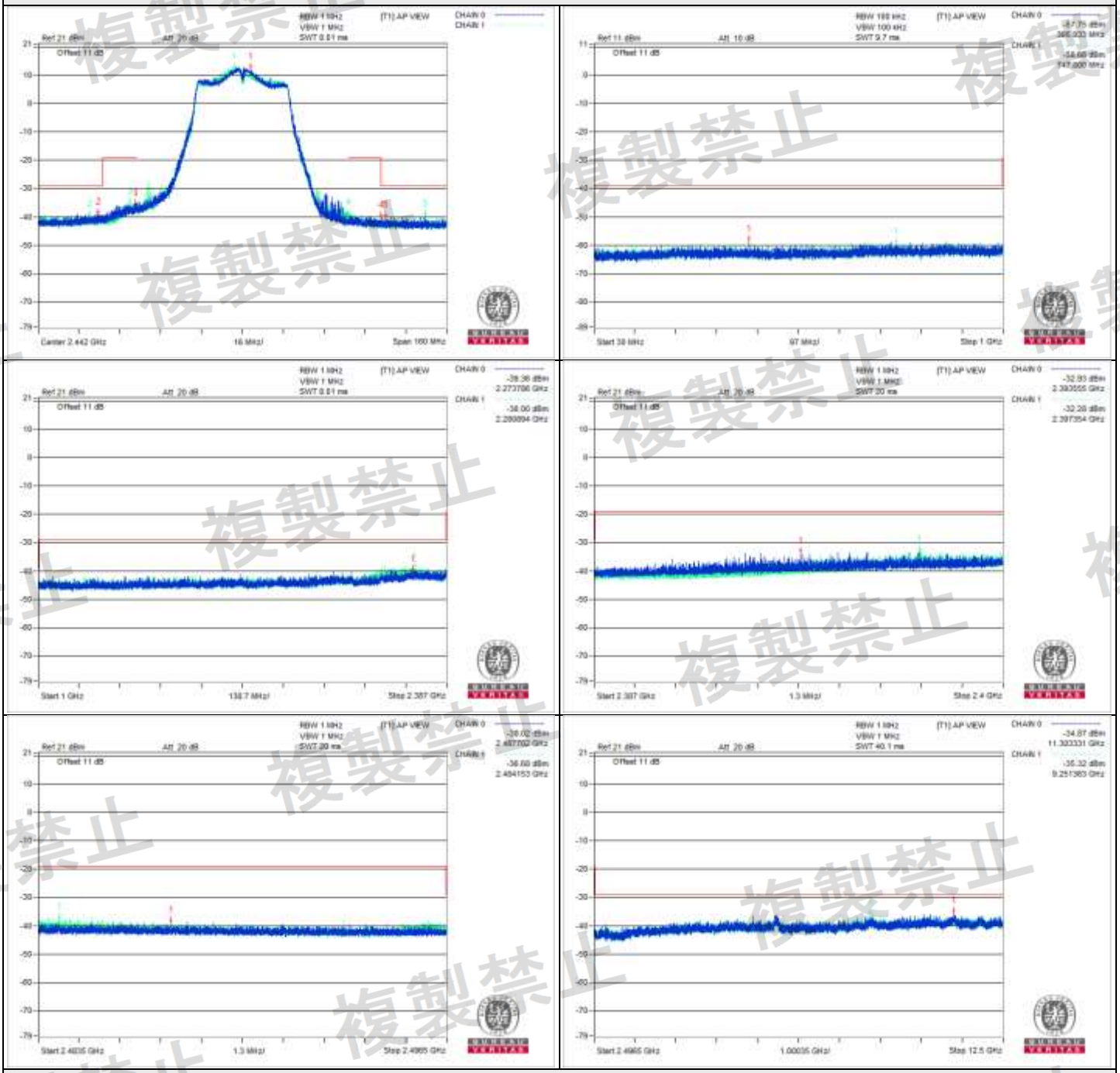
VHT40 Graph

Vnormal

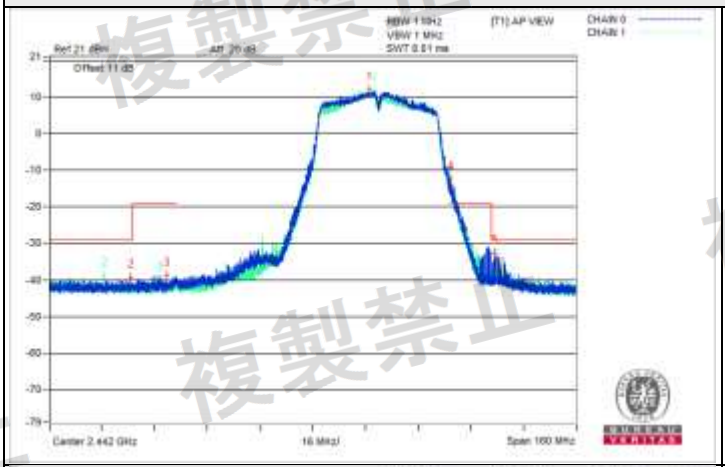
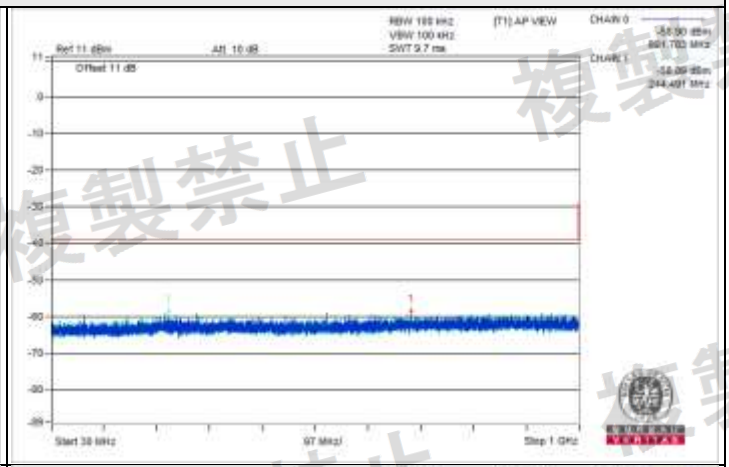
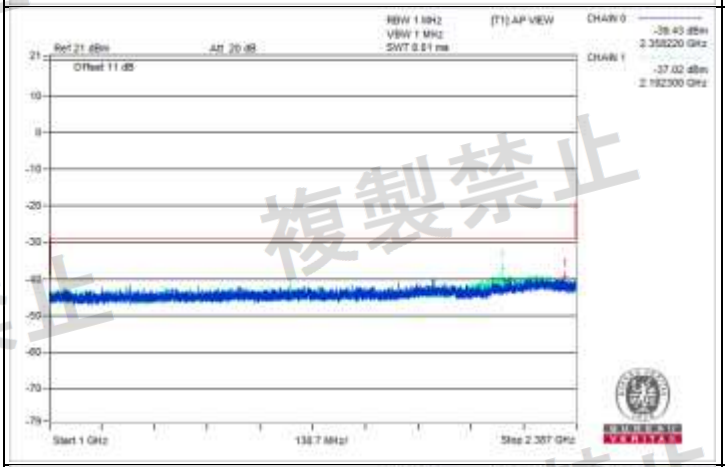
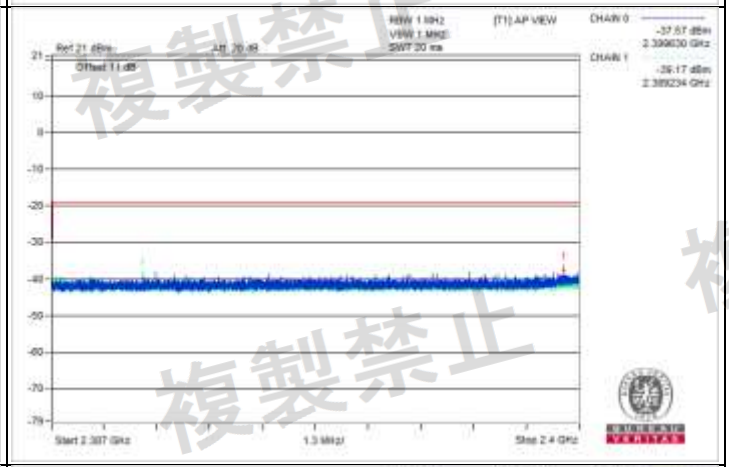
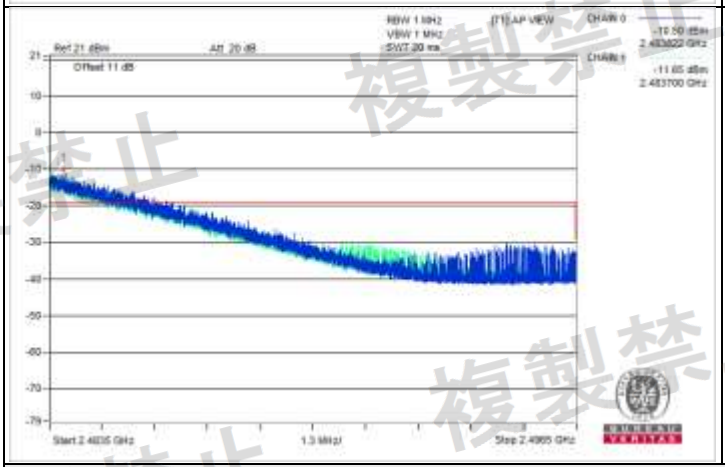
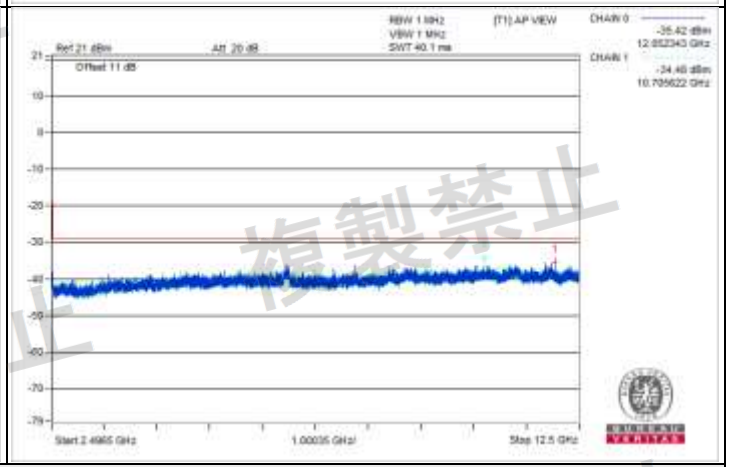


CH 3 (2422 MHz)

Vnormal



CH 7 (2442 MHz)

V_{normal}	
	
	
	
CH 11 (2462 MHz)	

複製禁止

VHT40 [Worst result] x [Number of antenna ports]

TEST CHANNEL		CH 3 (2422 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	0.002548 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.548314 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	4.199566 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.233900 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.576806 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V_{normal}	30.0 to 1000.0	0.003358 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.316978 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	1.183124 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.429566 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.651674 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)		
V_{normal}	30.0 to 1000.0	0.002582 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.397218 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.349970 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	2.872750 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.712902 uW/MHz	2.5 uW/MHz	PASS

802.11ax (HE20) Chain 0

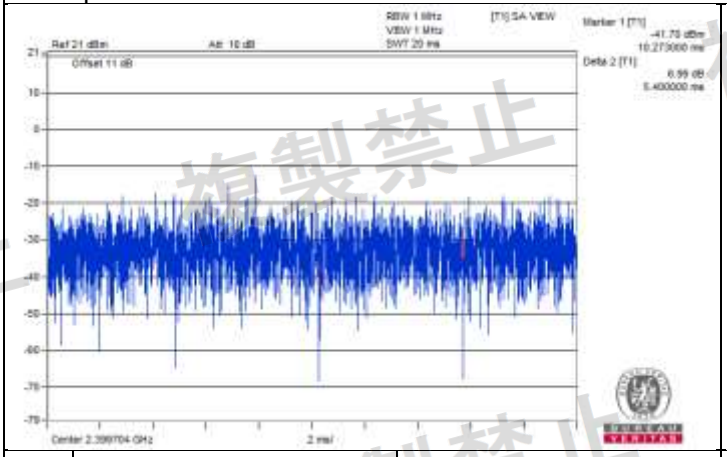
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	992.967	0.001371 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2191.086	0.172982 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.704	1.184276 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2490.619	0.11246 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11318.337	0.325837 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	789.510	0.001349 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2212.411	0.187068 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.821	0.144877 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2489.259	0.129122 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11260.816	0.247742 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V_{normal}	30.0 to 1000.0	686.569	0.001349 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2228.362	0.130017 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.998	0.135831 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.547	2.537116 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	11213.300	0.27227 uW/MHz	1.25 uW/MHz	PASS

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

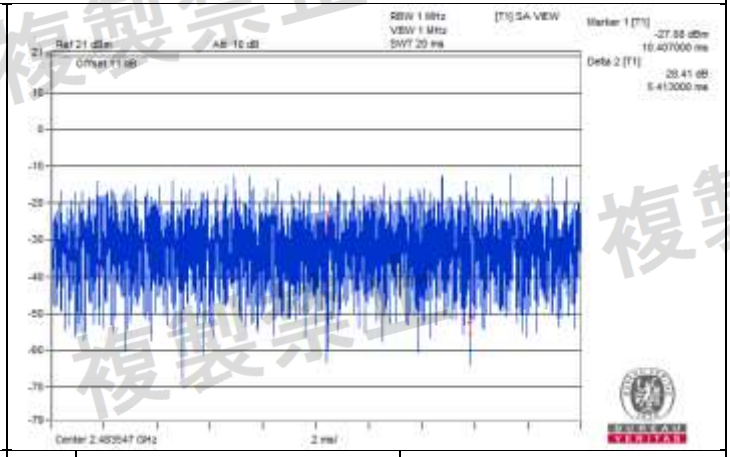
2. (No.): The value was tested under Measuring Mode *Zero Span.

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 (>400) and calculates the mean value.
5. It reports the mean value.



1	2399.704MHz	P = 1.184276 uW/MHz



2	2483.547MHz	P = 2.537116 uW/MHz

802.11ax (HE20) Chain 1

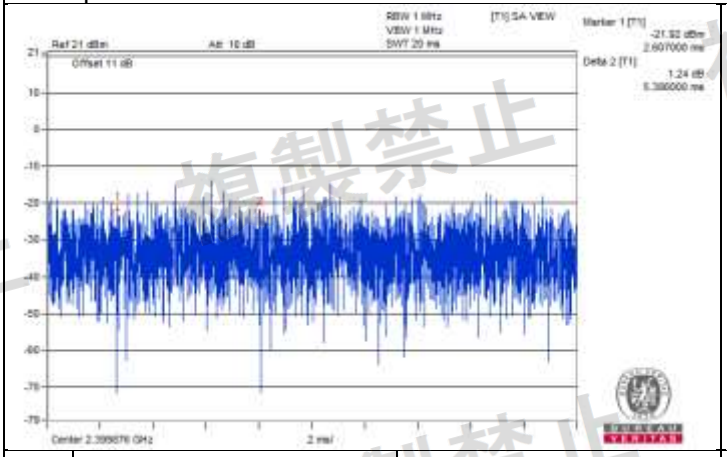
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	676.020	0.001371 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2387.000	0.181552 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.876	1.254058 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2496.183	0.157398 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11284.575	0.272898 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	745.011	0.001384 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2246.393	0.142889 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2390.517	0.124451 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2495.678	0.130617 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	6928.051	0.334965 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V_{normal}	30.0 to 1000.0	499.844	0.001262 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2191.086	0.153109 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.896	0.136144 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.671	1.464775 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	11343.345	0.242661 uW/MHz	1.25 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 (>400) and calculates the mean value.
5. It reports the mean value.

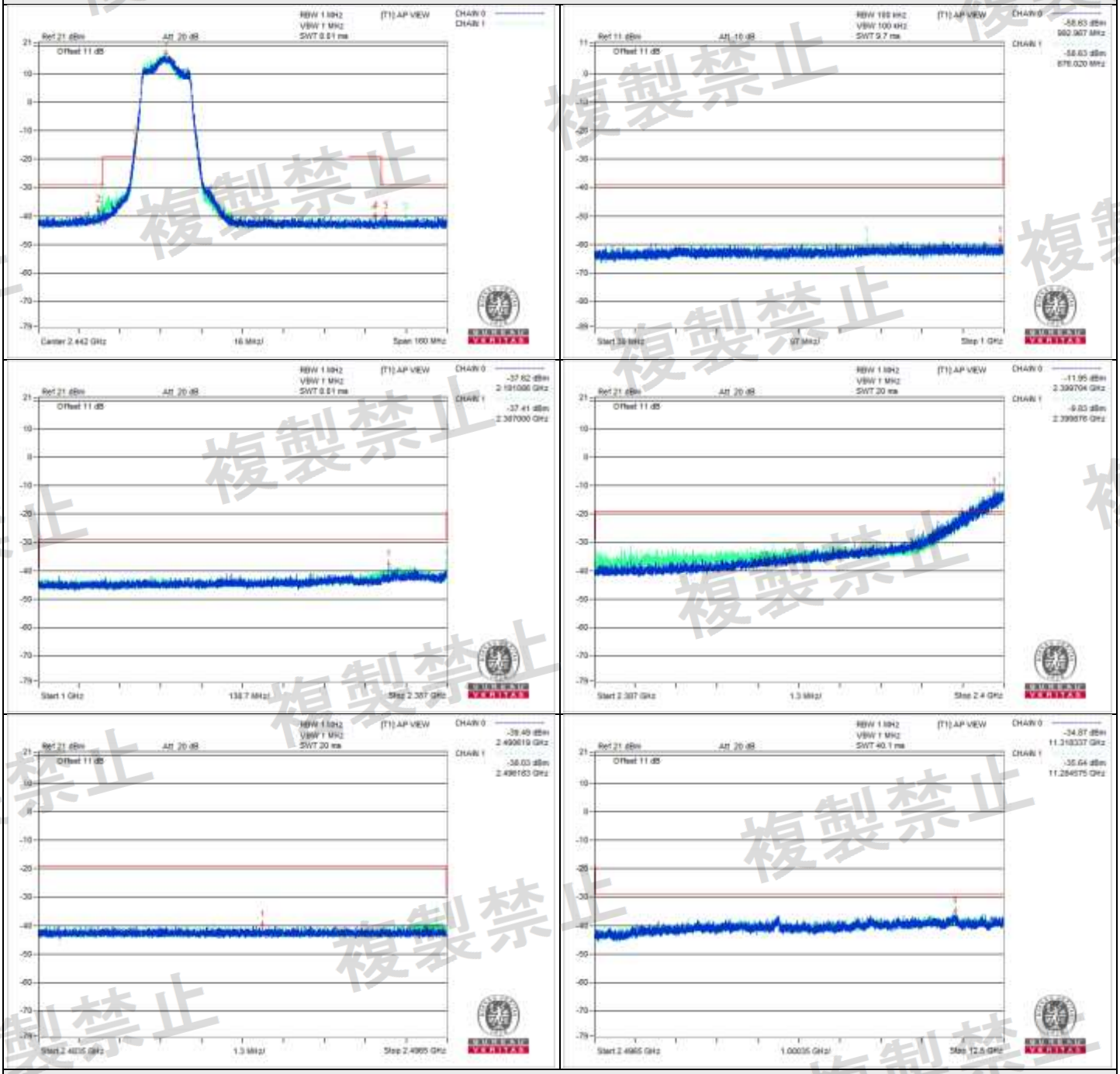


1	2399.876MHz	P = 1.254058 uW/MHz	2	2483.671MHz	P = 1.464775 uW/MHz

複製禁止

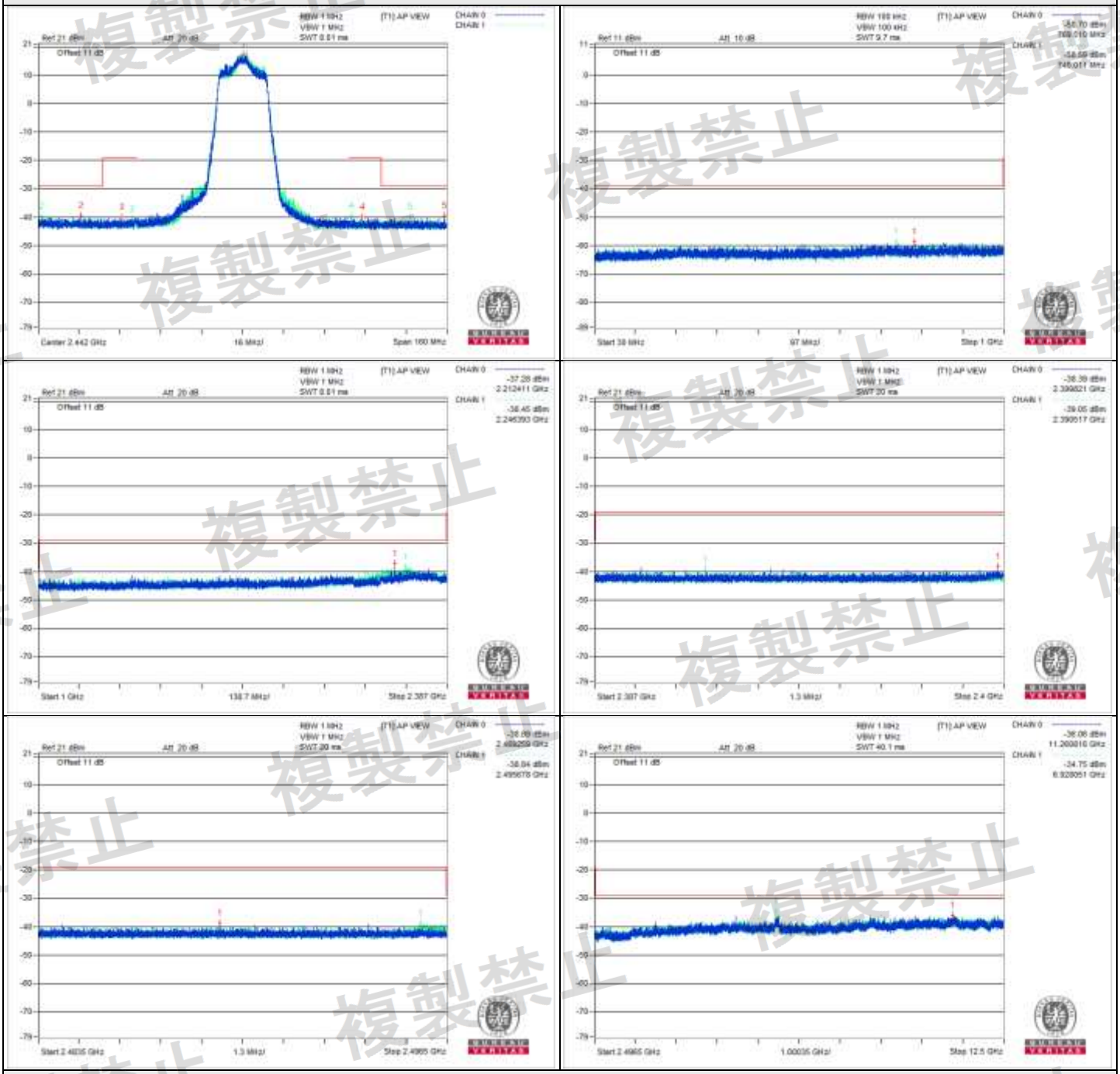
802.11ax (HE20) Graph

Vnormal



CH 1 (2412 MHz)

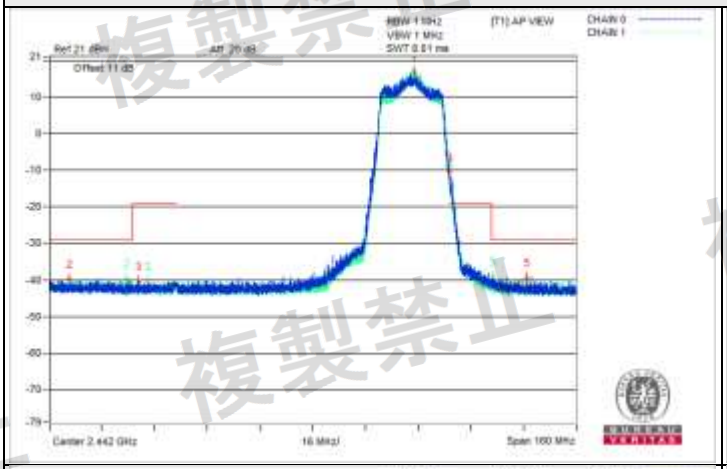
Vnormal

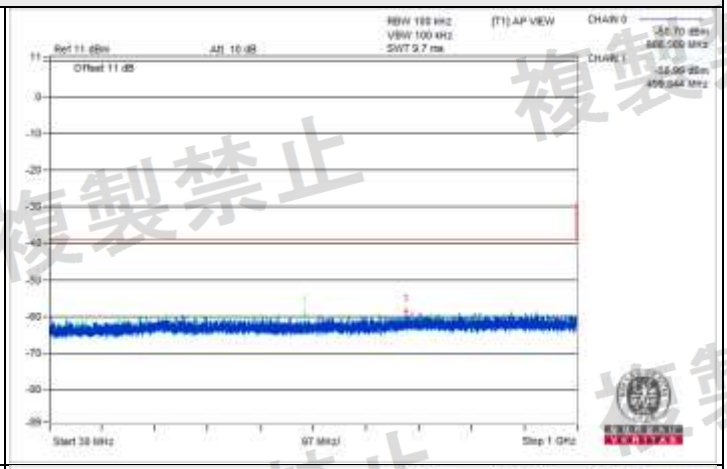


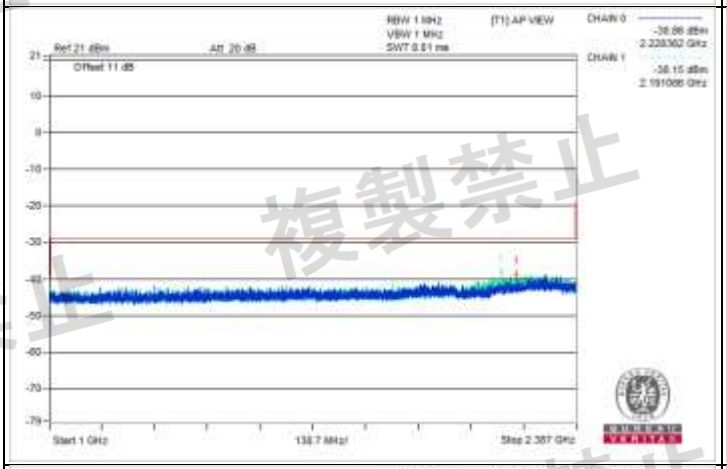
CH 7 (2442 MHz)

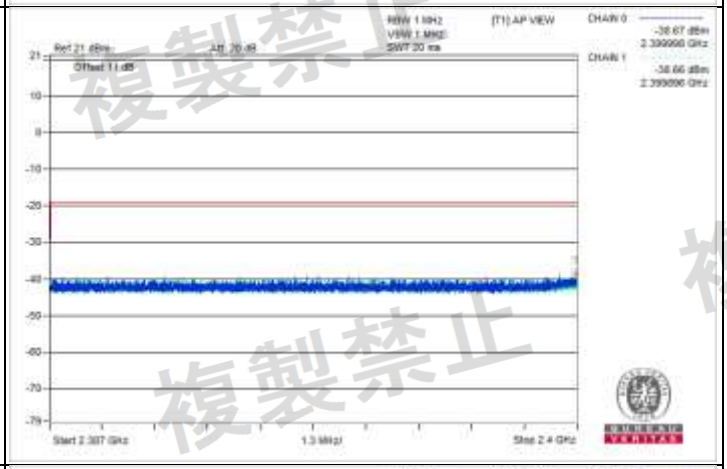
複製禁止

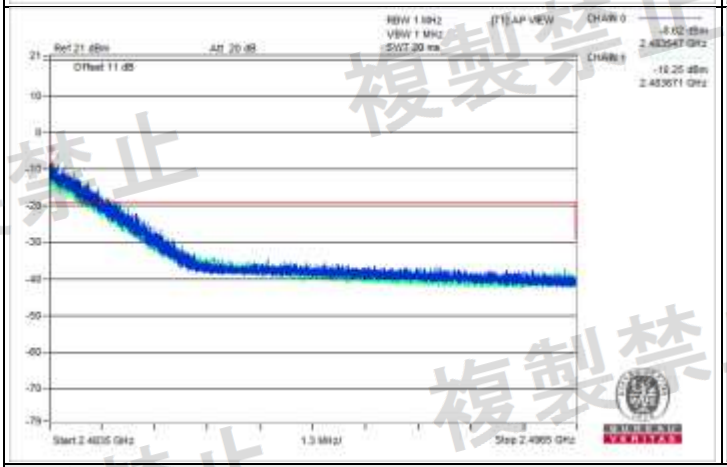
Vnormal

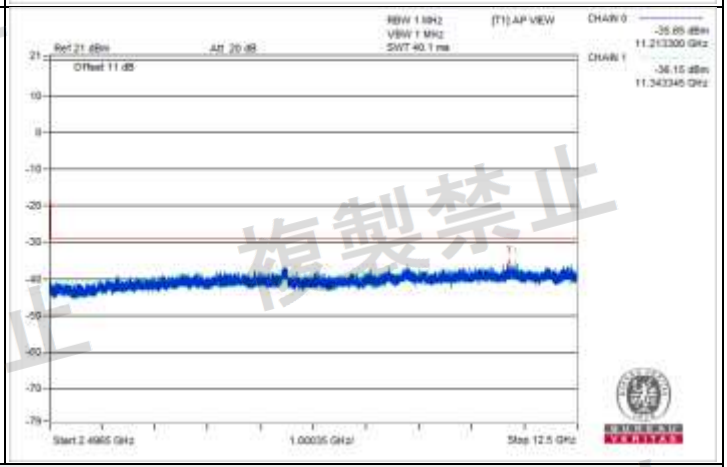












CH 13 (2472 MHz)

複製禁止

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

TEST CHANNEL		CH 1 (2412 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	0.002742 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.363104 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	2.508116 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.314796 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.651674 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V_{normal}	30.0 to 1000.0	0.002768 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.374136 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.289754 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.261234 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.669930 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)		
V_{normal}	30.0 to 1000.0	0.002698 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.306218 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.272288 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	5.074232 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.544540 uW/MHz	2.5 uW/MHz	PASS

802.11ax (HE40) Chain 0

TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	927.856	0.001343 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2385.786	0.286418 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.961	1.451857 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2488.141	0.120226 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	10826.915	0.27227 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	941.072	0.001483 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2377.464	0.125603 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.886	0.636796 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2487.329	0.152405 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	12342.445	0.28119 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V_{normal}	30.0 to 1000.0	976.720	0.001531 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2275.520	0.143549 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.552	0.174985 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.955	0.928976 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	9266.369	0.285759 uW/MHz	1.25 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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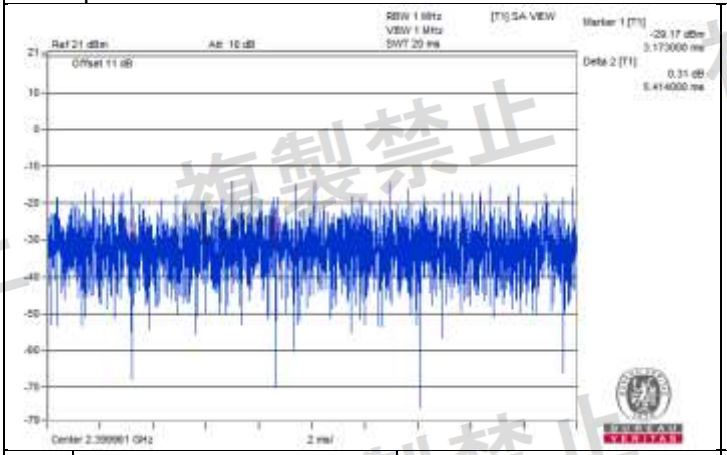
Measuring Mode *Zero Span

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 (>400) and calculates the mean value.
5. It reports the mean value.



1	2399.961MHz	P = 1.451857 uW/MHz	2	2483.955MHz	P = 0.928976 uW/MHz

複製禁止

802.11ax (HE40) Chain 1

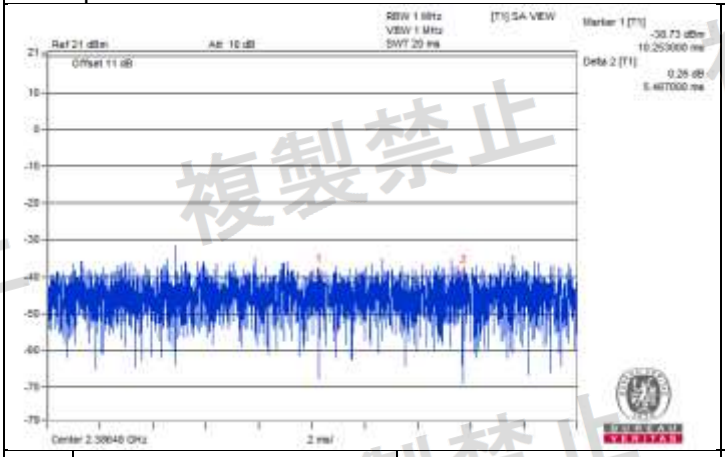
TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	947.135	0.001432 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2386.480	0.043438 uW/MHz	1.25 uW/MHz	PASS(1)
	2387.0 to 2400.0	2399.888	2.282211 uW/MHz	12.5 uW/MHz	PASS(2)
	2483.5 to 2496.5	2495.824	0.13366 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11347.097	0.308319 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	671.898	0.001472 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2283.669	0.144212 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2397.507	0.88308 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2490.465	0.333426 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11128.270	0.271019 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V_{normal}	30.0 to 1000.0	898.029	0.00139 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2238.071	0.158855 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2398.557	0.142561 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.615	1.653742 uW/MHz	12.5 uW/MHz	PASS(3)
	2496.5 to 12500.0	10645.601	0.276058 uW/MHz	1.25 uW/MHz	PASS

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

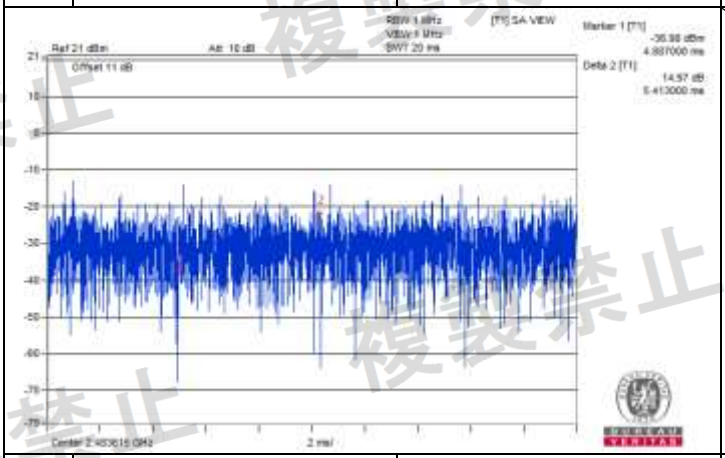
2. (No.): The value was tested under Measuring Mode *Zero Span.

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 (>400) and calculates the mean value.
5. It reports the mean value.



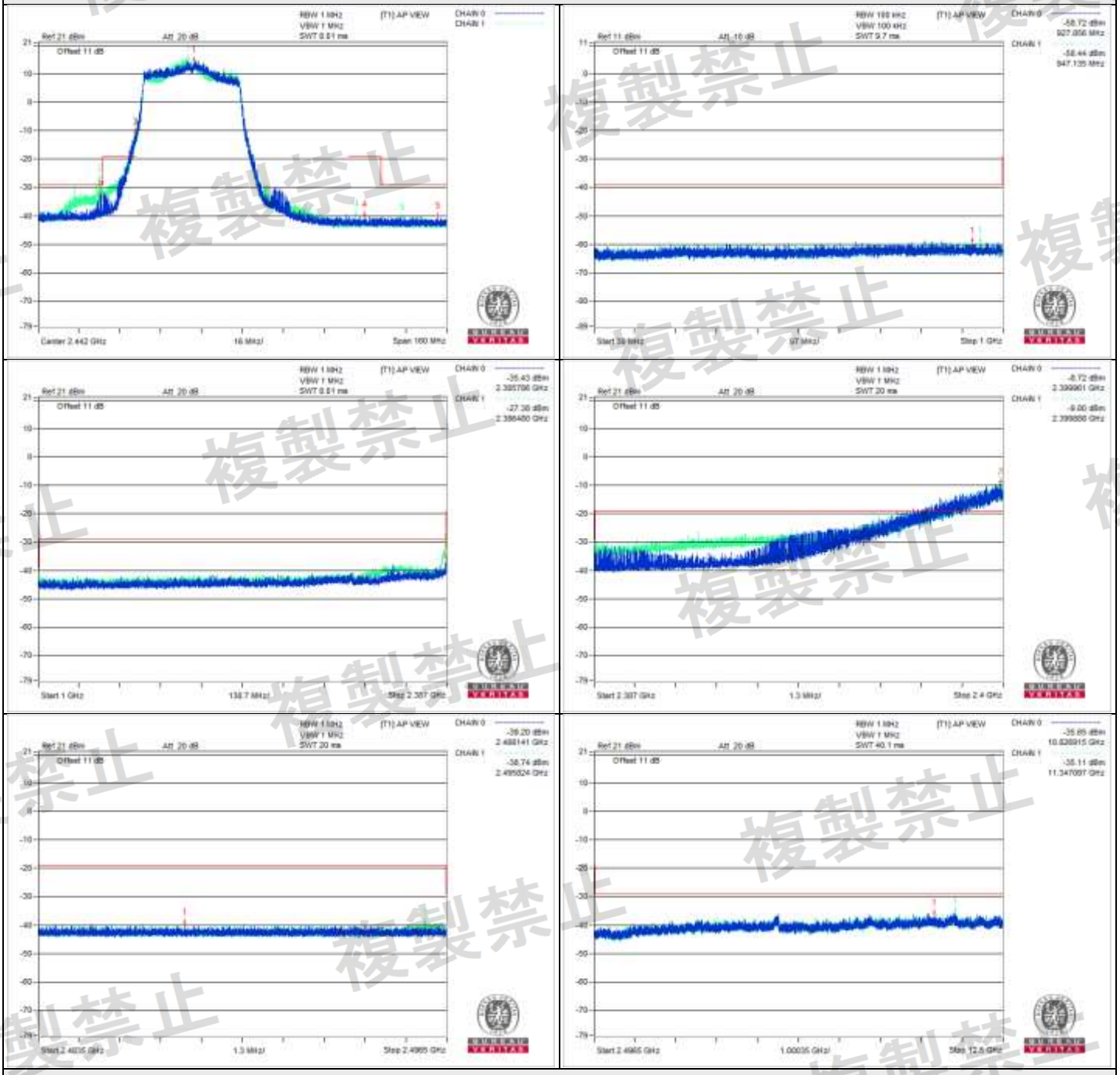
1	2386.480MHz	P = 0.043438 uW/MHz	2	2399.888MHz	P = 2.282211 uW/MHz



3	2483.615MHz	P = 1.653742 uW/MHz			

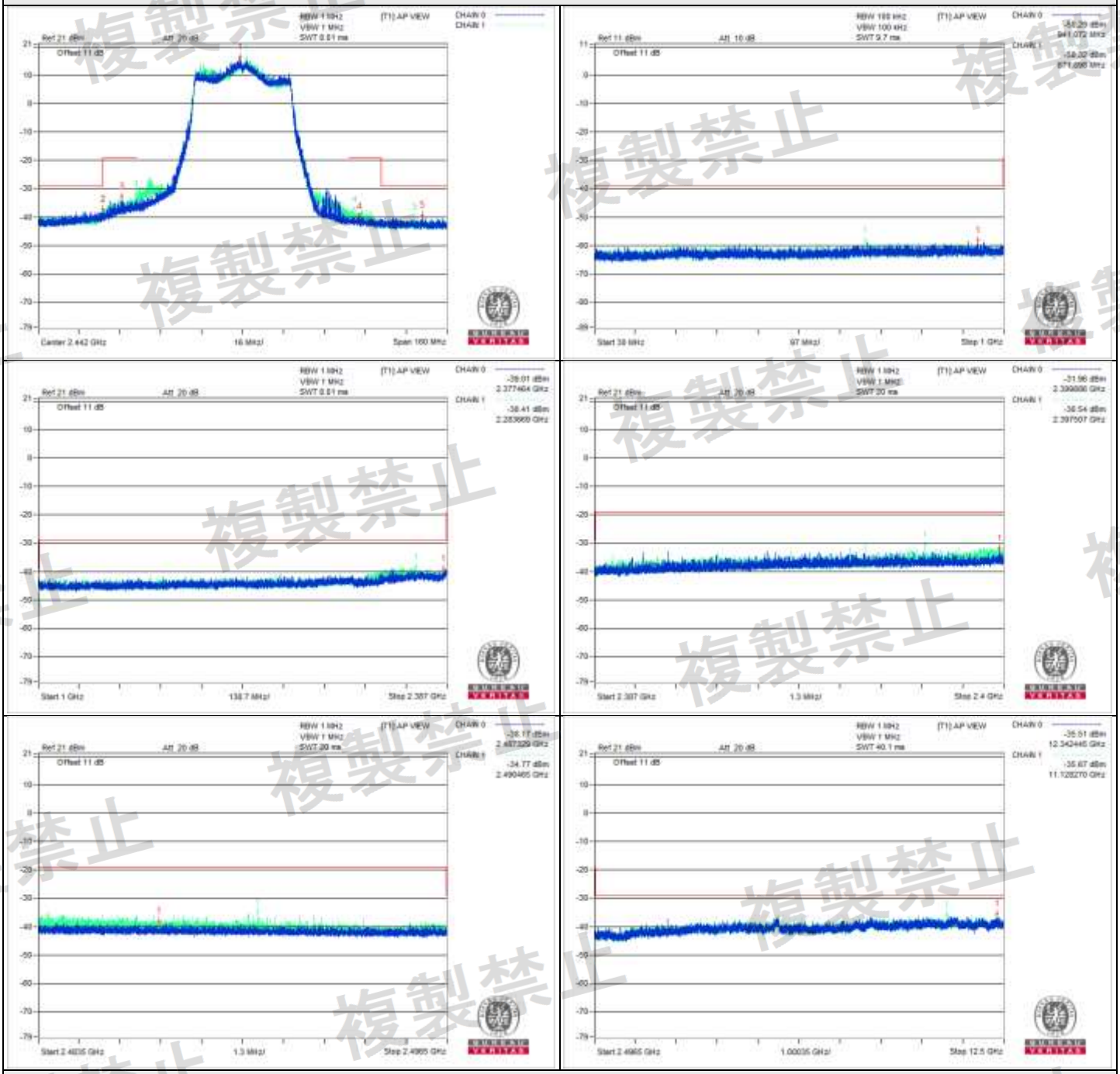
802.11ax (HE40) Graph

Vnormal



CH 3 (2422 MHz)

Vnormal



CH 7 (2442 MHz)

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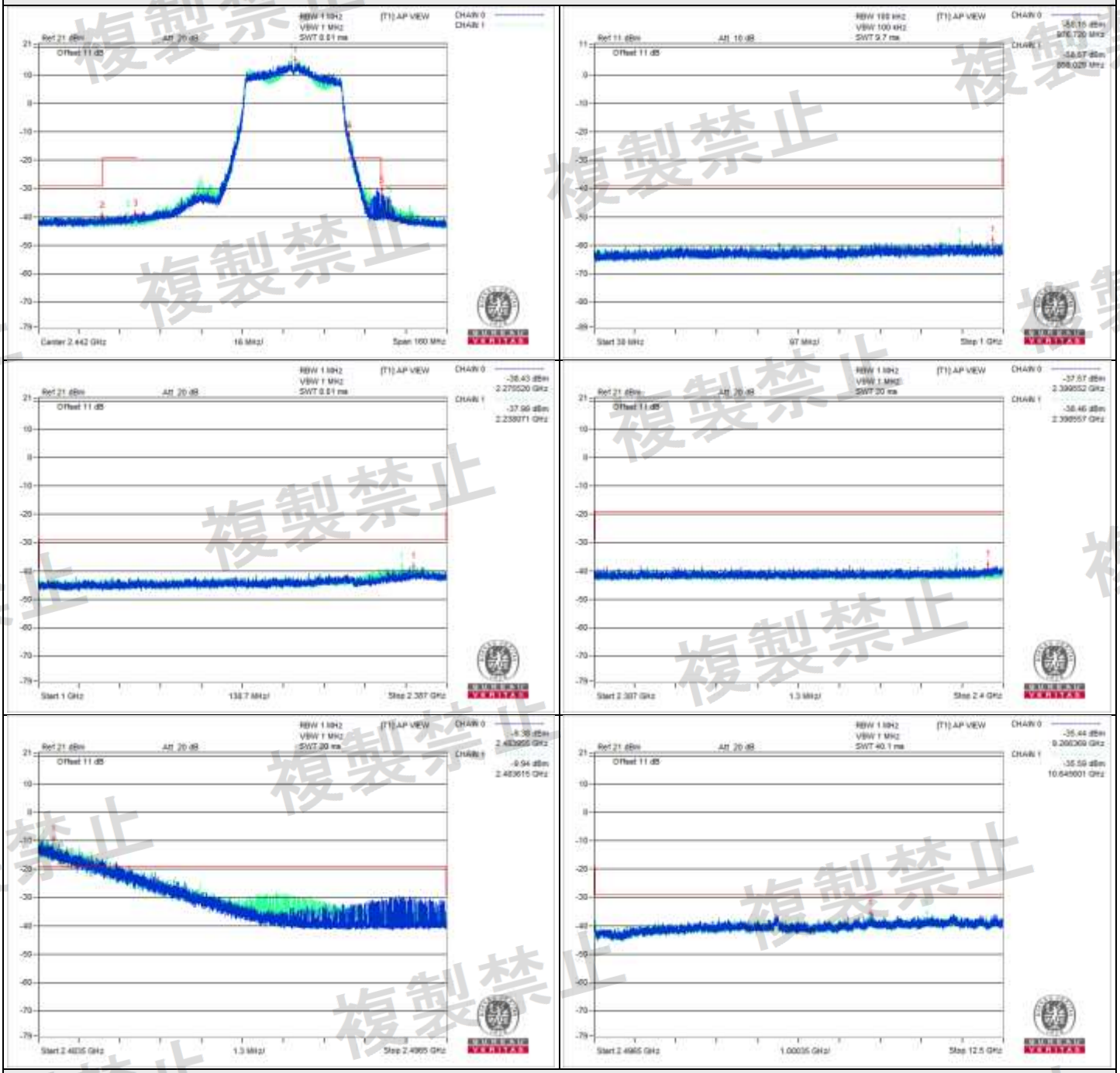
Vnormal



CH 11 (2462 MHz)

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

TEST CHANNEL		CH 3 (2422 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	0.002864 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.572836 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	4.564422 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.267320 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.616638 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V_{normal}	30.0 to 1000.0	0.002966 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.288424 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	1.766160 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.666852 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.562380 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)		
V_{normal}	30.0 to 1000.0	0.003062 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.317710 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.349970 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	3.307484 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.571518 uW/MHz	2.5 uW/MHz	PASS

802.11be (EHT20) Chain 0

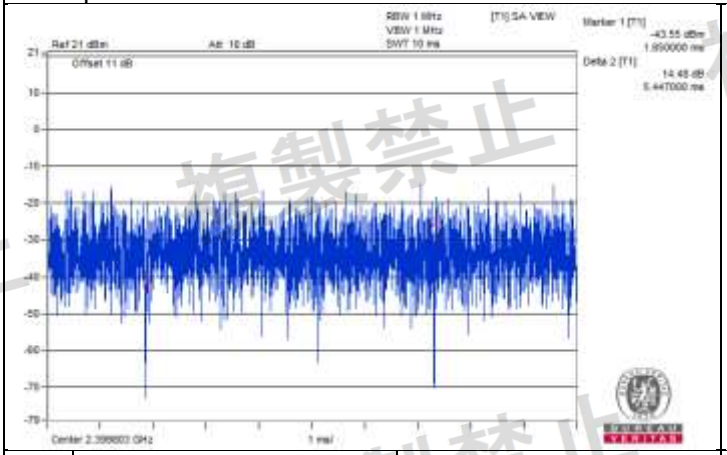
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	944.225	0.001282 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2208.944	0.236592 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.803	1.263476 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2485.029	0.120781 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11652.203	0.267917 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	853.166	0.001355 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2189.699	0.11695 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.743	0.126765 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.547	0.11324 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	8907.493	0.296483 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V_{normal}	30.0 to 1000.0	743.314	0.001279 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2189.006	0.169434 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.954	0.118304 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.515	2.26504 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	11293.328	0.319154 uW/MHz	1.25 uW/MHz	PASS

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

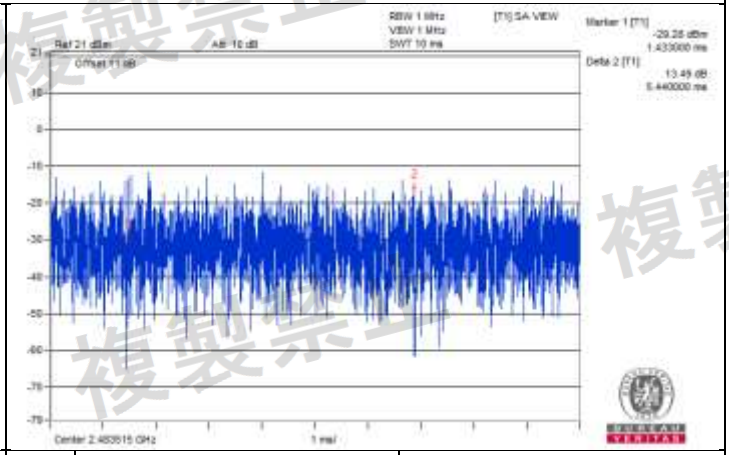
2. (No.): The value was tested under Measuring Mode *Zero Span.

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 (>400) and calculates the mean value.
5. It reports the mean value.



1	2399.803MHz	P = 1.263476 uW/MHz



2	2483.515MHz	P = 2.26504 uW/MHz

802.11be (EHT20) Chain 1

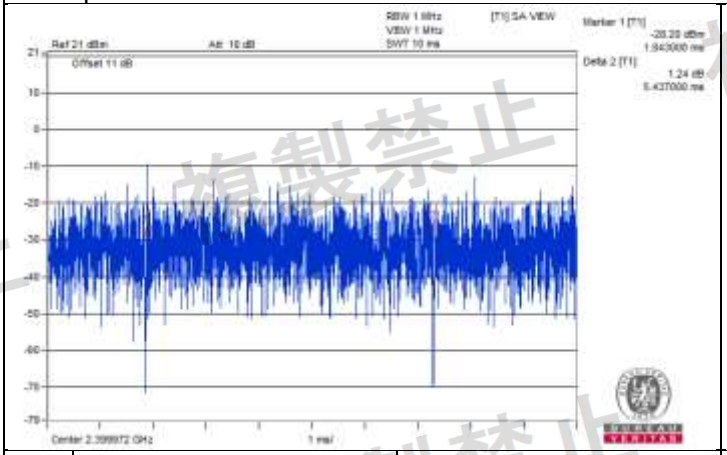
TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	678.930	0.00156 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2387.000	0.16788 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.972	1.915871 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2489.230	0.127057 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11358.351	0.263027 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	890.269	0.001466 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2255.928	0.136773 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2393.047	0.11324 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2496.026	0.139959 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	6994.324	0.274789 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)			
V_{normal}	30.0 to 1000.0	736.888	0.001346 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2254.368	0.157761 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2391.950	0.128529 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.503	1.737241 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	11253.314	0.284446 uW/MHz	1.25 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

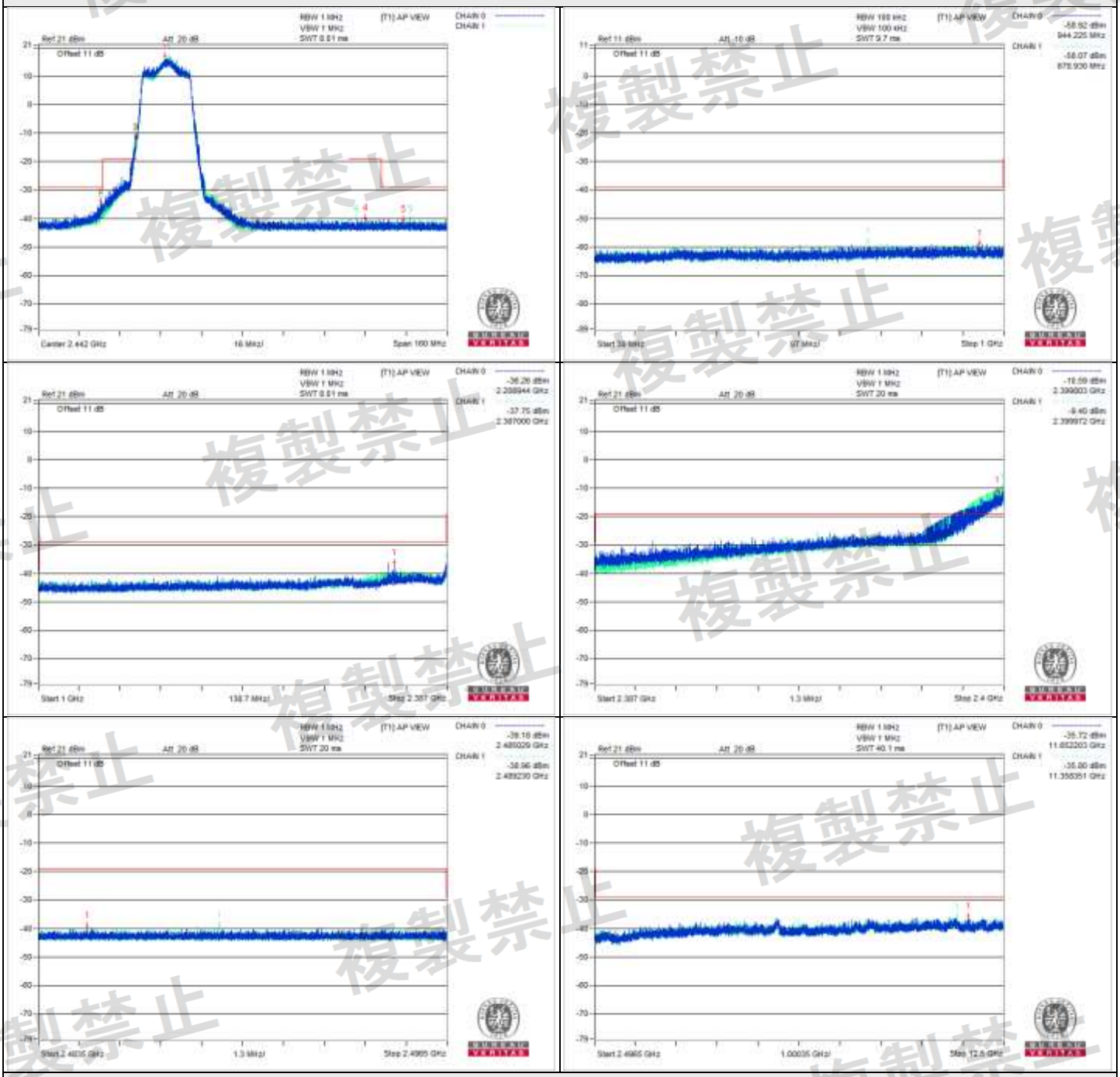
1. Set the spectrum analyzer as below and it takes in a value of all data point.
2. Regarding the all data value, it transforms the “dBm” value into “uW” value.
3. It adds the all values and calculates a grand total. Define a grand total as “P”.
4. It divides “P” by sample data point (>400) and calculates the mean value.
5. It reports the mean value.



1	2399.972MHz	P = 1.915871 uW/MHz	2	2483.503MHz	P = 1.737241 uW/MHz

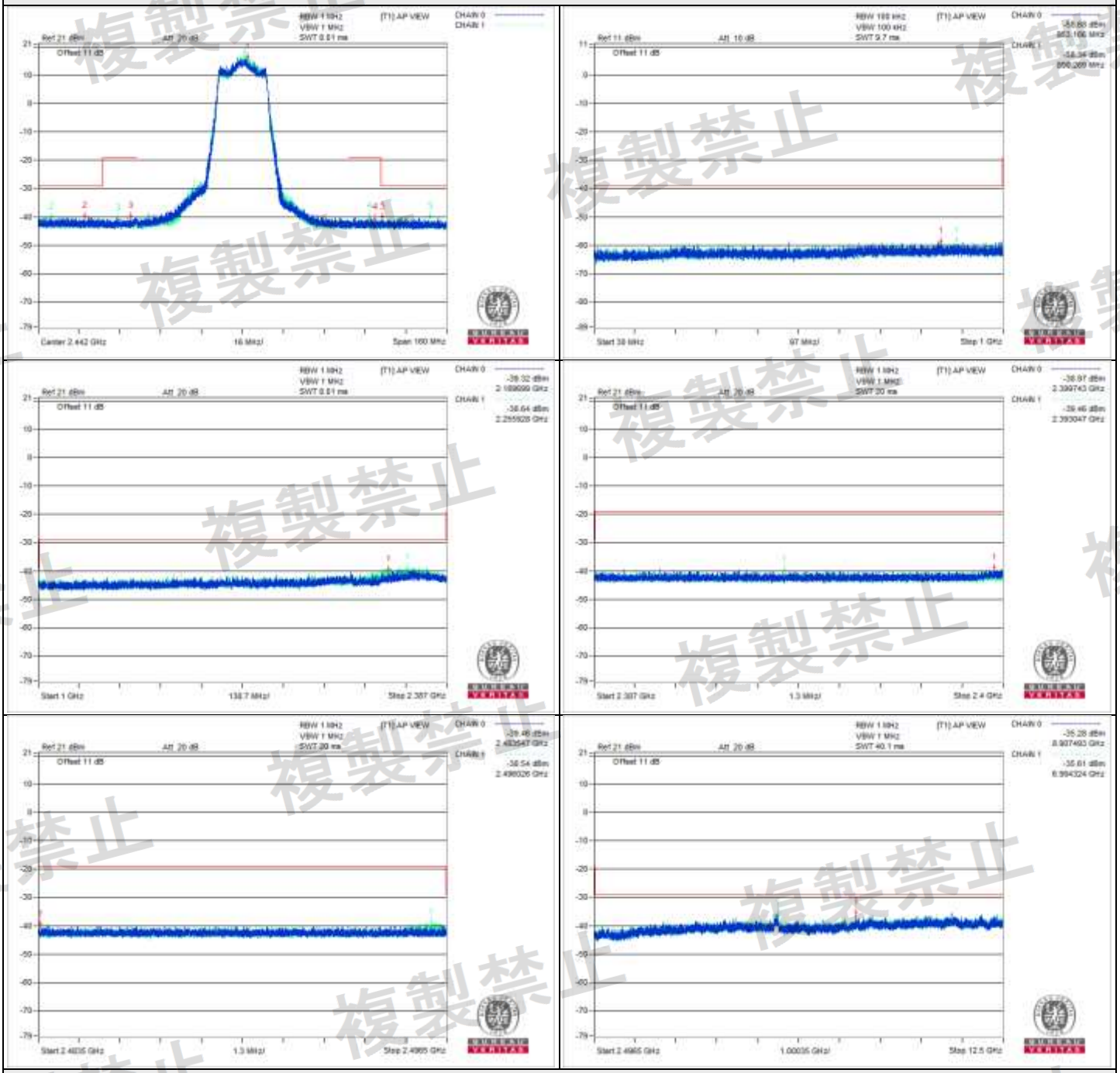
802.11be (EHT20) Graph

Vnormal



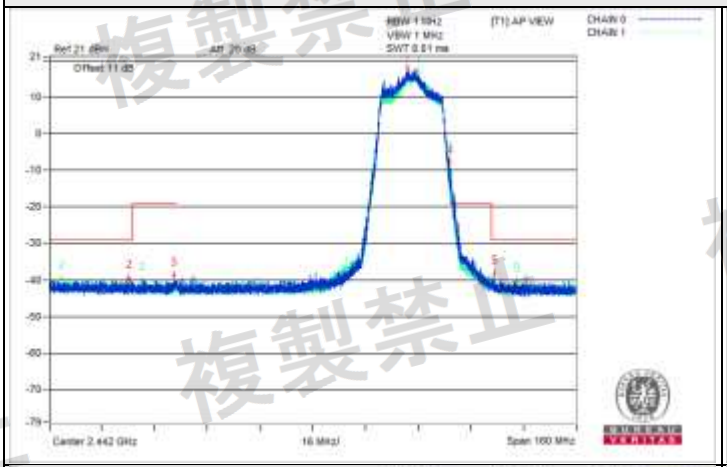
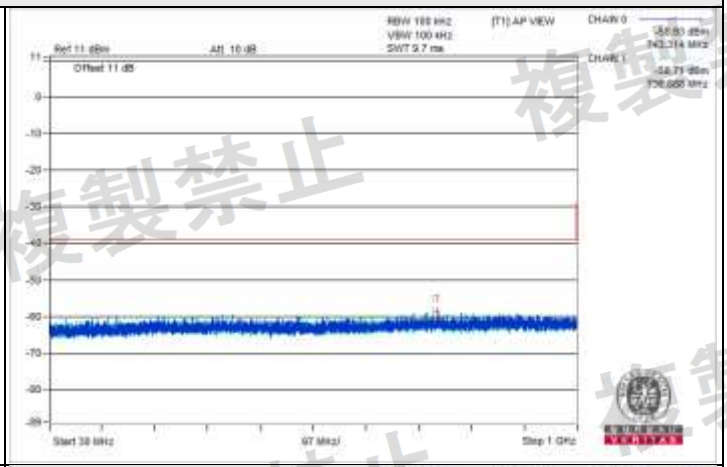
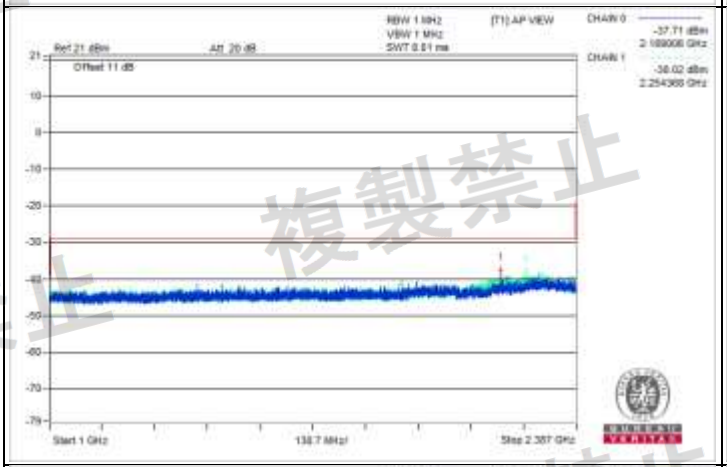
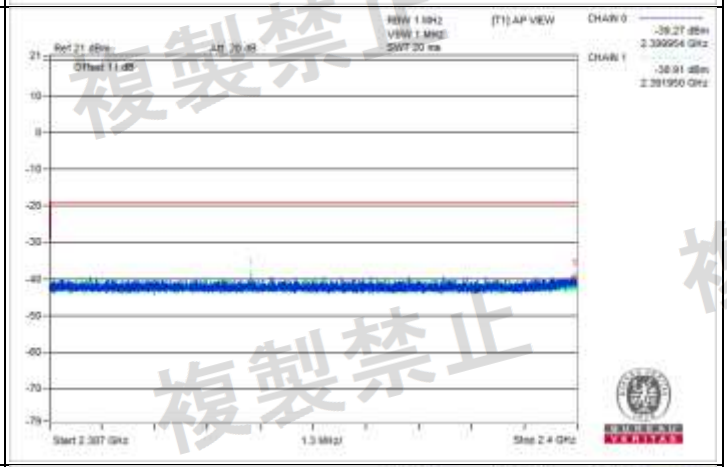
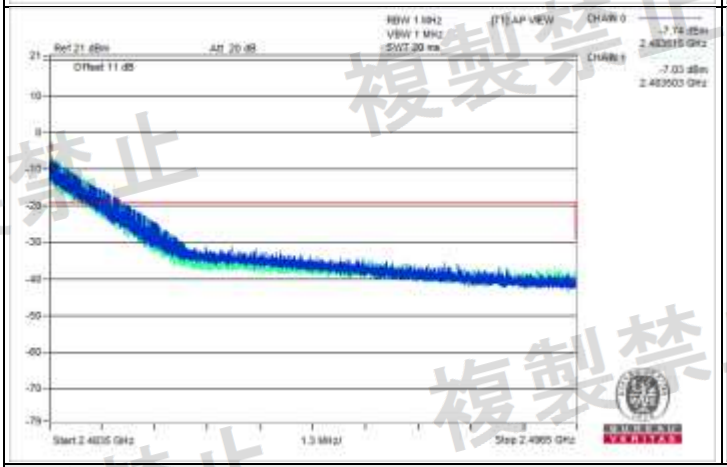
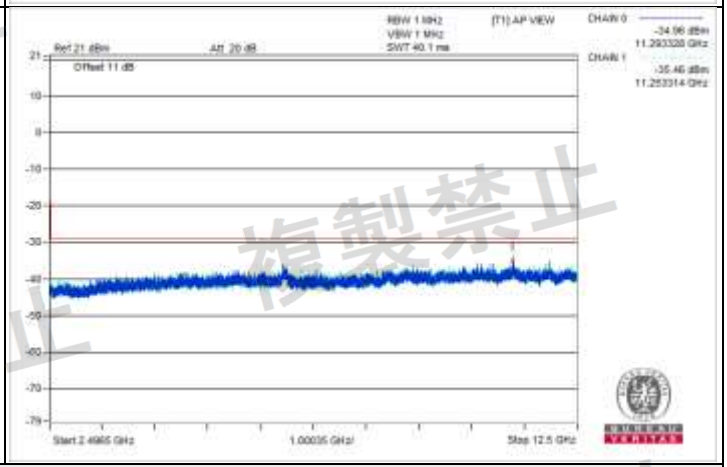
CH 1 (2412 MHz)

Vnormal



CH 7 (2442 MHz)

複製禁止

V_{normal}	
	
	
	
CH 13 (2472 MHz)	

複製禁止

802.11be (EHT20) [Worst result] x [Number of antenna ports]

TEST CHANNEL		CH 1 (2412 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	0.003120 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.473184 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	3.831742 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.254114 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.535834 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V_{normal}	30.0 to 1000.0	0.002932 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.273546 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.253530 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.279918 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.592966 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 13 (2472 MHz)		
V_{normal}	30.0 to 1000.0	0.002692 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.338868 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.257058 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	4.530080 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.638308 uW/MHz	2.5 uW/MHz	PASS

802.11be (EHT40) Chain 0

TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	350.100	0.001403 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2385.960	0.60256 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.486	1.105874 uW/MHz	12.5 uW/MHz	PASS(1)
	2483.5 to 2496.5	2487.595	0.109901 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11178.288	0.246604 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	996.969	0.001276 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2291.297	0.12735 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.085	0.820352 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2488.968	0.180717 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11320.837	0.255859 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V_{normal}	30.0 to 1000.0	915.731	0.001175 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2209.117	0.128233 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.737	0.21727 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.562	1.733886 uW/MHz	12.5 uW/MHz	PASS(2)
	2496.5 to 12500.0	6956.811	0.256448 uW/MHz	1.25 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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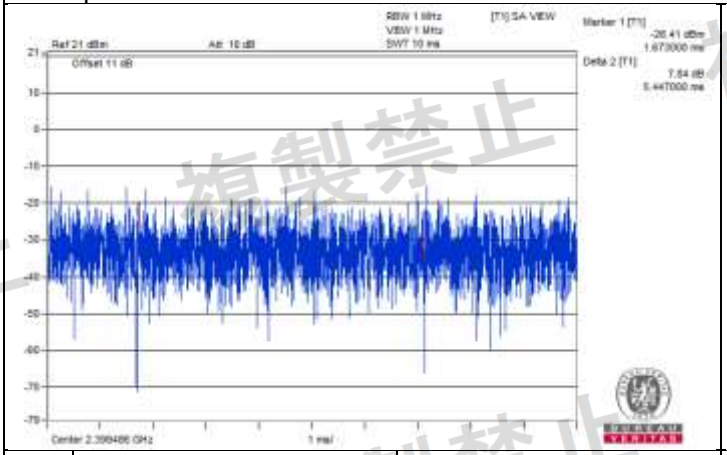
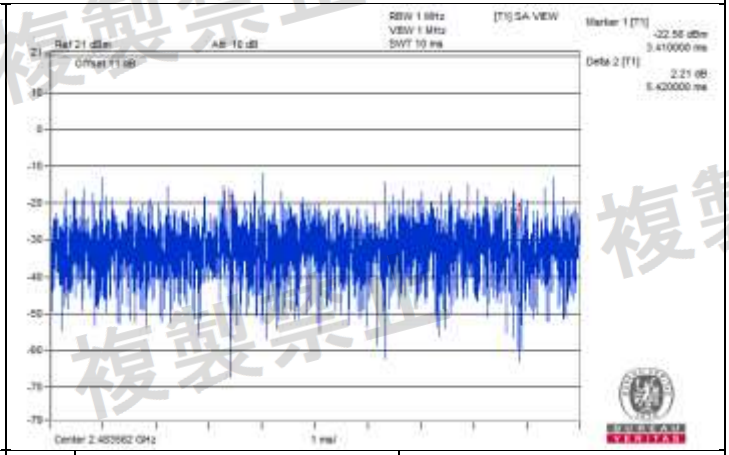
Measuring Mode *Zero Span

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 (>400) and calculates the mean value.
5. It reports the mean value.



1	2399.486MHz	P = 1.105874 uW/MHz



2	2483.562MHz	P = 1.733886 uW/MHz

802.11be (EHT40) Chain 1

TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	853.409	0.001374 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2384.919	0.071111 uW/MHz	1.25 uW/MHz	PASS(1)
	2387.0 to 2400.0	2399.782	1.355063 uW/MHz	12.5 uW/MHz	PASS(2)
	2483.5 to 2496.5	2493.820	0.112202 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	10779.398	0.232809 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	851.832	0.00133 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2237.377	0.202302 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2399.904	1.137627 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.758	0.256448 uW/MHz	12.5 uW/MHz	PASS
	2496.5 to 12500.0	11302.081	0.260016 uW/MHz	1.25 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V_{normal}	30.0 to 1000.0	753.862	0.00169 uW/100kHz	0.125 uW/100kHz	PASS
	1000.0 to 2387.0	2262.863	0.149624 uW/MHz	1.25 uW/MHz	PASS
	2387.0 to 2400.0	2388.822	0.141579 uW/MHz	12.5 uW/MHz	PASS
	2483.5 to 2496.5	2483.570	1.611543 uW/MHz	12.5 uW/MHz	PASS(3)
	2496.5 to 12500.0	11220.802	0.287078 uW/MHz	1.25 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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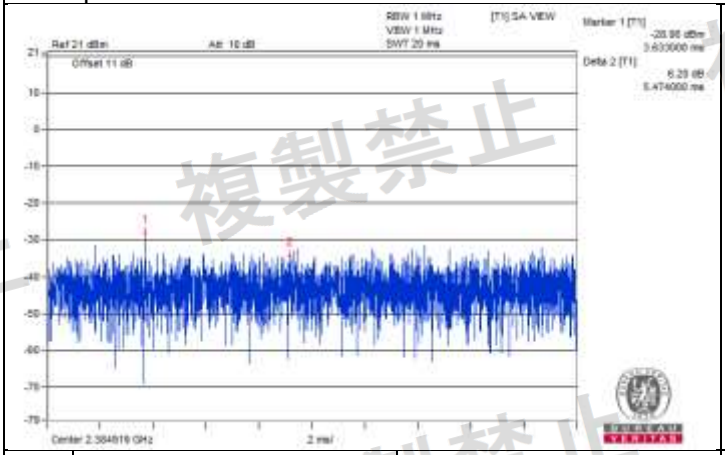
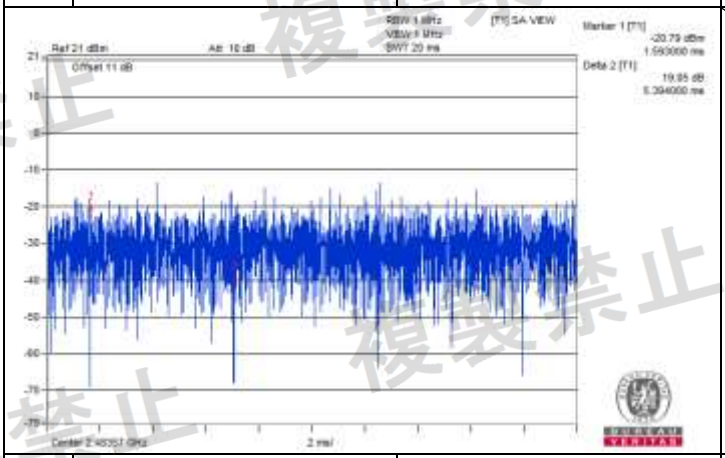
Measuring Mode *Zero Span

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 (>400) and calculates the mean value.
5. It reports the mean value.



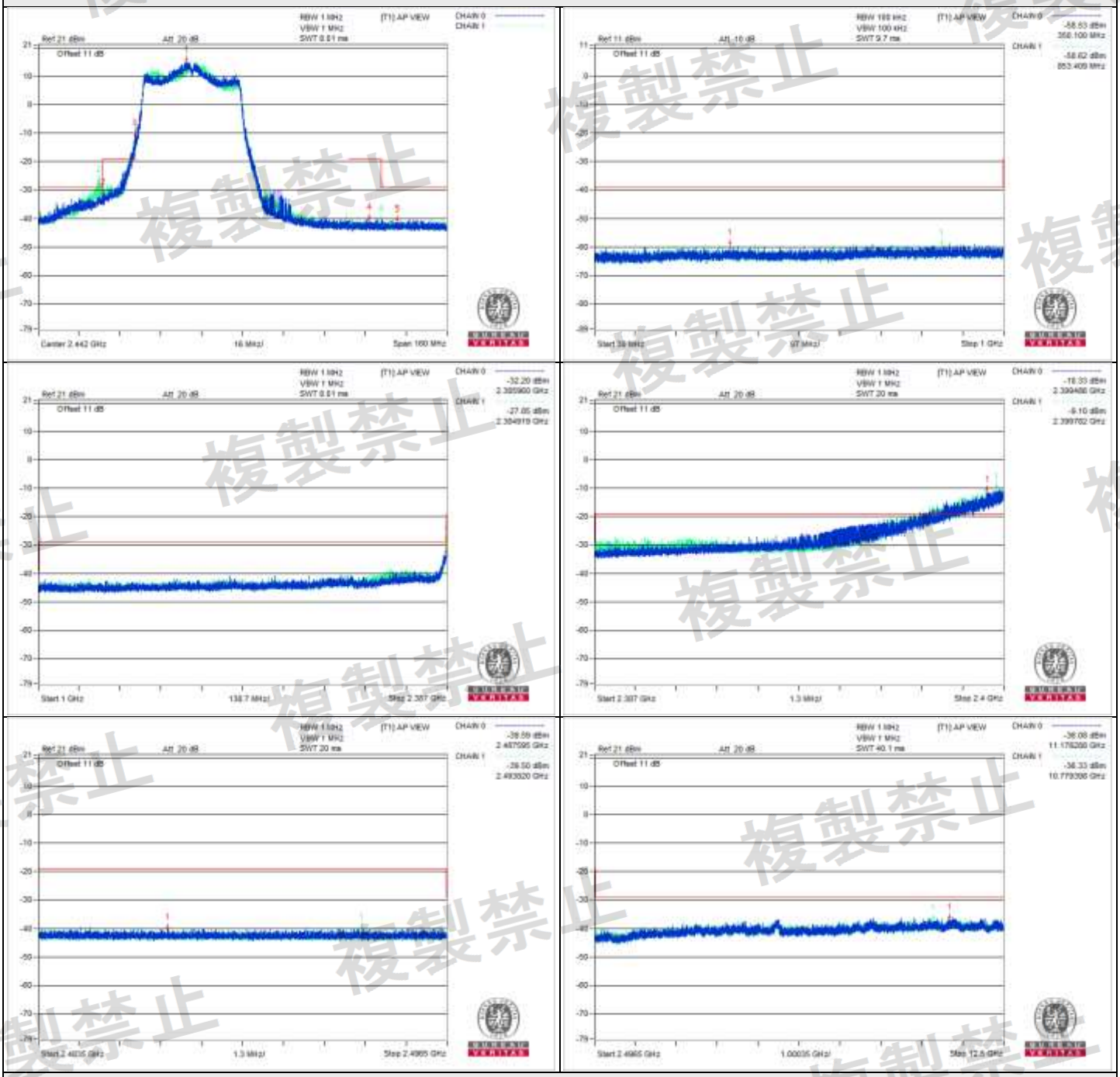
1	2384.919MHz	P = 0.071111 uW/MHz	2	2399.782MHz	P = 1.355063 uW/MHz



3	2483.570MHz	P = 1.611543 uW/MHz			

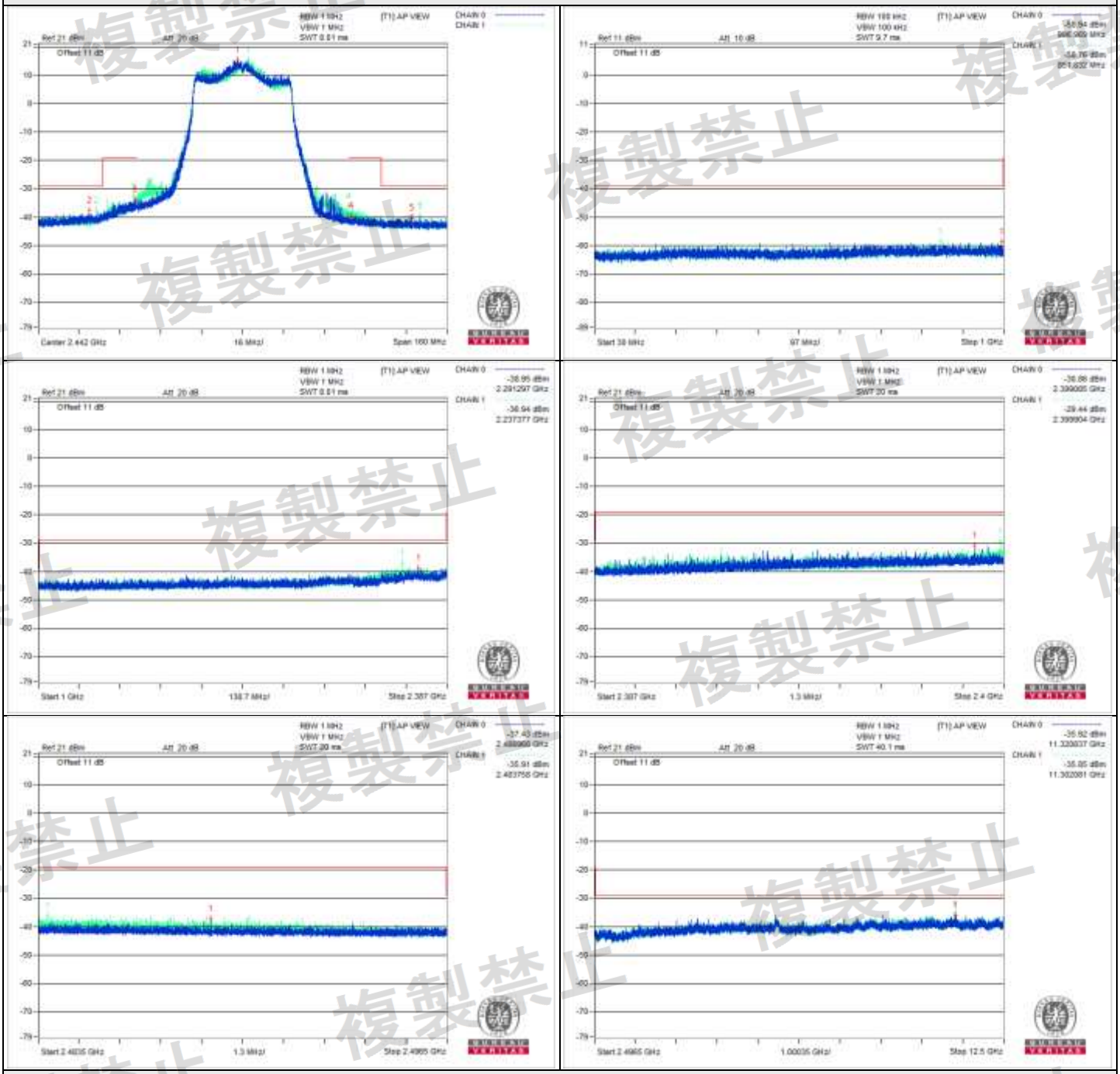
802.11be (EHT40) Graph

Vnormal



CH 3 (2422 MHz)

Vnormal



CH 7 (2442 MHz)

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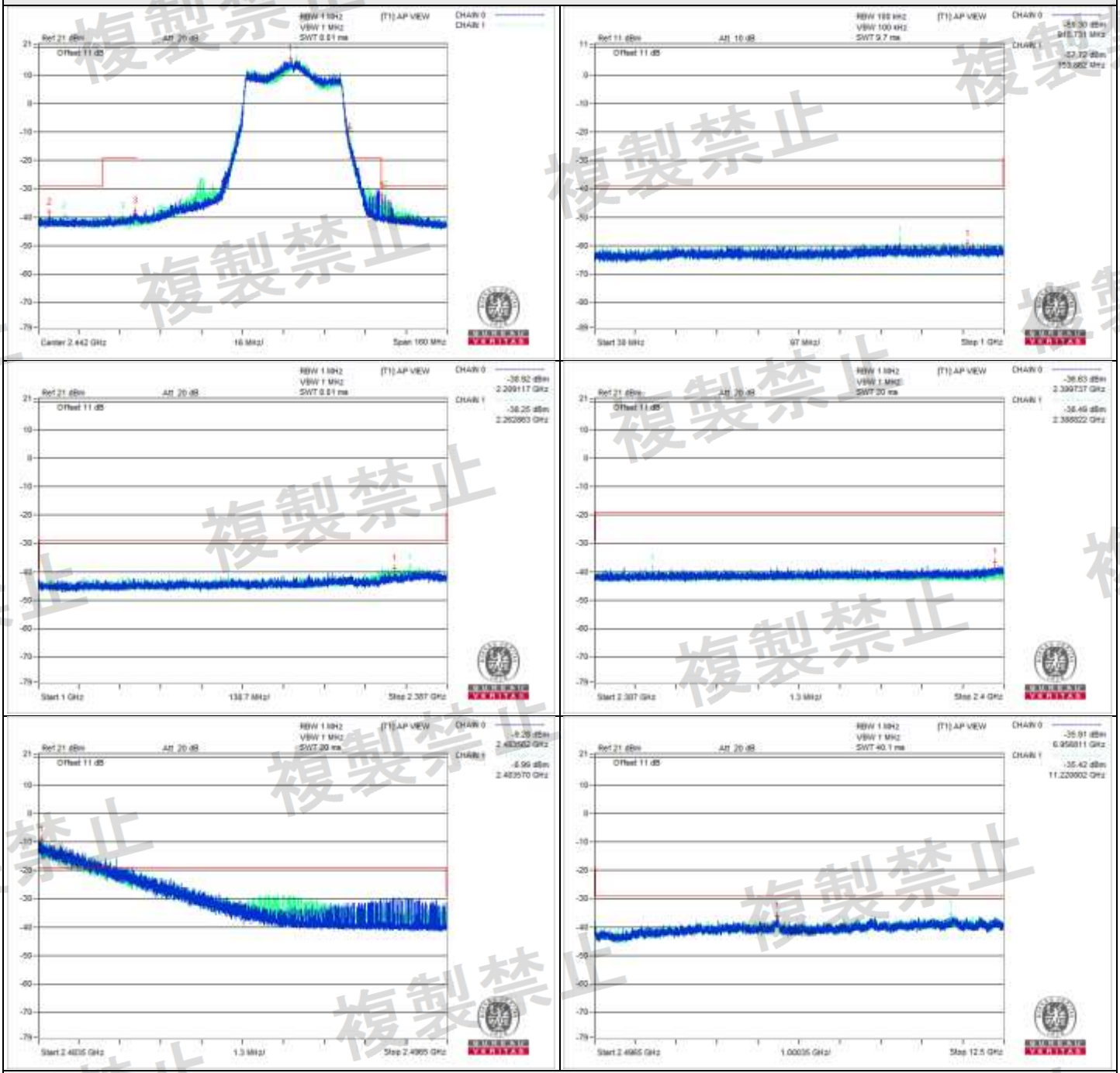
Vnormal



CH 11 (2462 MHz)

802.11be (EHT40) [Worst result] x [Number of antenna ports]

TEST CHANNEL		CH 3 (2422 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30.0 to 1000.0	0.002806 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	1.205120 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	2.710126 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.224404 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.493208 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V_{normal}	30.0 to 1000.0	0.002660 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.404604 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	2.275254 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	0.512896 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.520032 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 11 (2462 MHz)		
V_{normal}	30.0 to 1000.0	0.003380 uW/100kHz	0.25 uW/100kHz	PASS
	1000.0 to 2387.0	0.299248 uW/MHz	2.5 uW/MHz	PASS
	2387.0 to 2400.0	0.434540 uW/MHz	25 uW/MHz	PASS
	2483.5 to 2496.5	3.467772 uW/MHz	25 uW/MHz	PASS
	2496.5 to 12500.0	0.574156 uW/MHz	2.5 uW/MHz	PASS

7.4 Spurious Emissions of Receiver

Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

20 MHz System Chain 0

TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	899.362	0.119124	2	PASS
	1000.0 to 12500.0	11242.187	2.511886	10	PASS
TEST CHANNEL		**CH 7 (2442 MHz)**			
V_{normal}	30.0 to 1000.0	377.866	0.119399	2	PASS
	1000.0 to 12500.0	11867.500	2.636331	10	PASS
TEST CHANNEL		**CH 13 (2472 MHz)**			
V_{normal}	30.0 to 1000.0	385.990	0.107895	2	PASS
	1000.0 to 12500.0	11354.312	2.716439	10	PASS

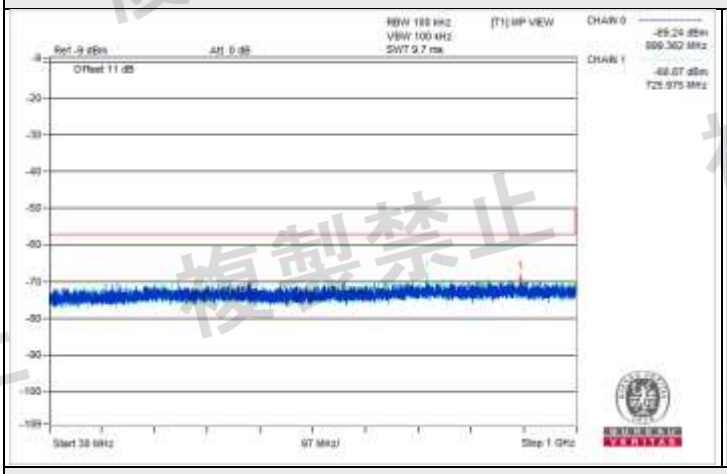
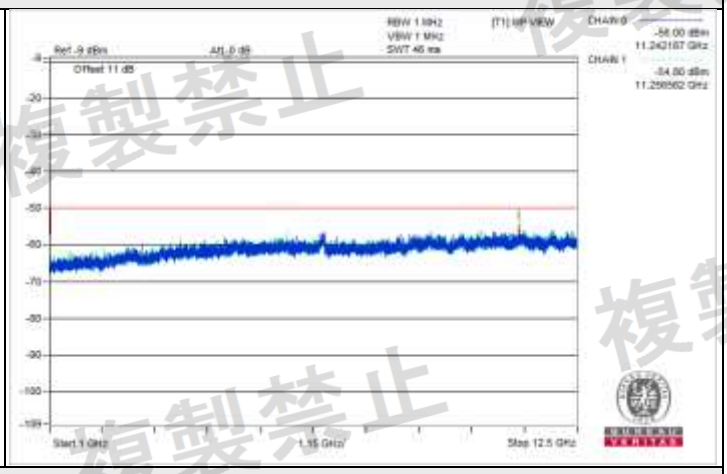
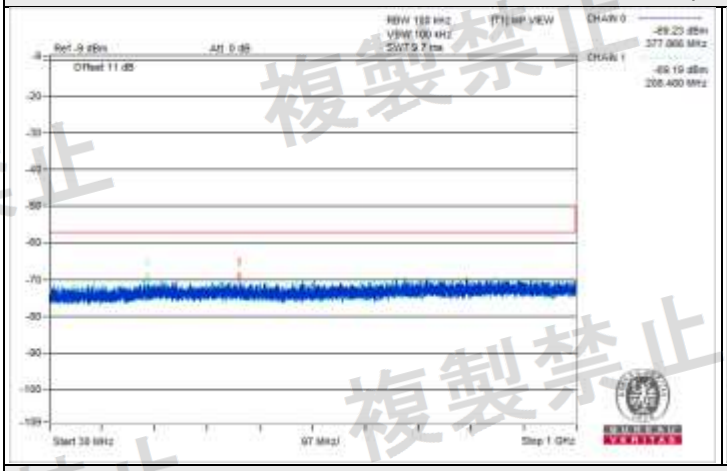
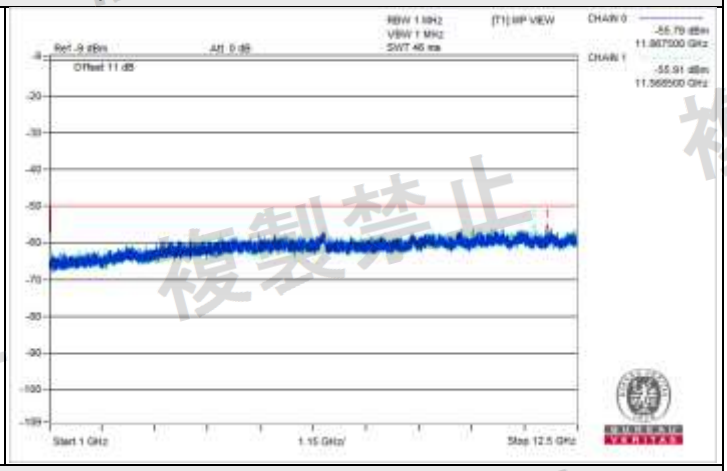
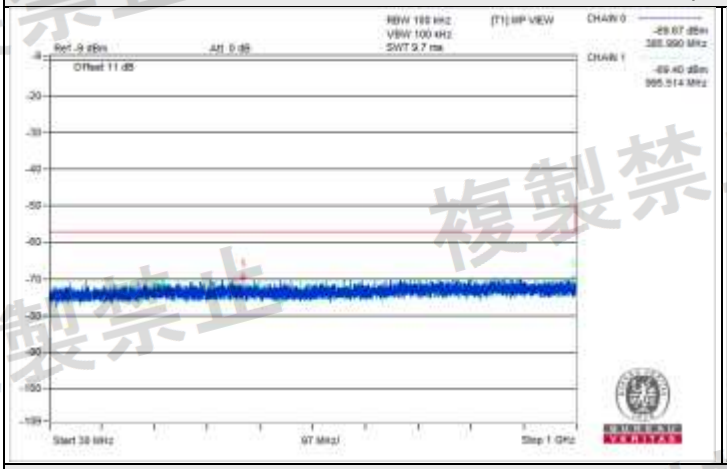
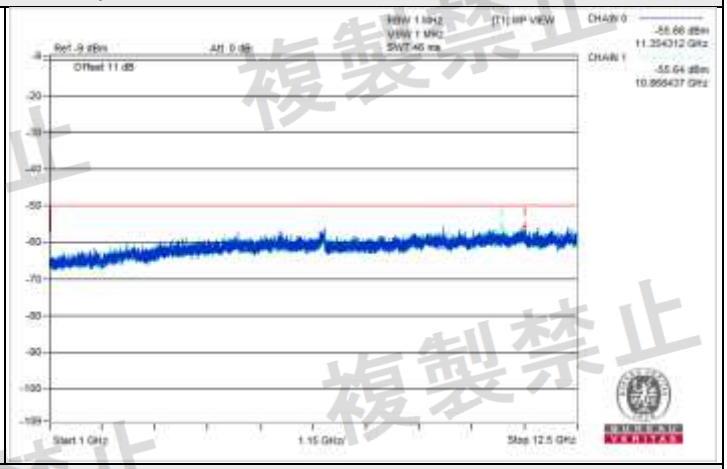
NOTE: 1. The spectrum plots are attached on the following pages.

20 MHz System Chain 1

TEST CHANNEL		CH 1 (2412 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	725.975	0.129718	2	PASS
	1000.0 to 12500.0	11256.562	3.311311	10	PASS
TEST CHANNEL		**CH 7 (2442 MHz)**			
V_{normal}	30.0 to 1000.0	208.480	0.120504	2	PASS
	1000.0 to 12500.0	11568.500	2.564484	10	PASS
TEST CHANNEL		**CH 13 (2472 MHz)**			
V_{normal}	30.0 to 1000.0	995.514	0.114815	2	PASS
	1000.0 to 12500.0	10868.437	2.728978	10	PASS

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

20 MHz System Graph

V_{normal}	
	
CH 1 (2412 MHz)	
	
CH 7 (2442 MHz)	
	
CH 13 (2472 MHz)	

20 MHz System Sum of each Chain

TEST CHANNEL		CH 1 (2412 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	0.248842	4	PASS
	1000.0 to 12500.0	5.823197	20	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V_{normal}	30.0 to 1000.0	0.239903	4	PASS
	1000.0 to 12500.0	5.200815	20	PASS
TEST CHANNEL		CH 13 (2472 MHz)		
V_{normal}	30.0 to 1000.0	0.222710	4	PASS
	1000.0 to 12500.0	5.445417	20	PASS

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40 MHz System Chain 0

TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	675.171	0.133045	2	PASS
	1000.0 to 12500.0	10729.000	2.393316	10	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	893.664	0.128233	2	PASS
	1000.0 to 12500.0	11242.187	2.488857	10	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V_{normal}	30.0 to 1000.0	820.065	0.12388	2	PASS
	1000.0 to 12500.0	10700.250	2.454709	10	PASS

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

40 MHz System Chain 1

TEST CHANNEL		CH 3 (2422 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	754.469	0.118577	2	PASS
	1000.0 to 12500.0	11203.375	2.722701	10	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	707.181	0.128825	2	PASS
	1000.0 to 12500.0	11278.125	3.198895	10	PASS
TEST CHANNEL		CH 11 (2462 MHz)			
V_{normal}	30.0 to 1000.0	821.641	0.125026	2	PASS
	1000.0 to 12500.0	6969.937	2.716439	10	PASS

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

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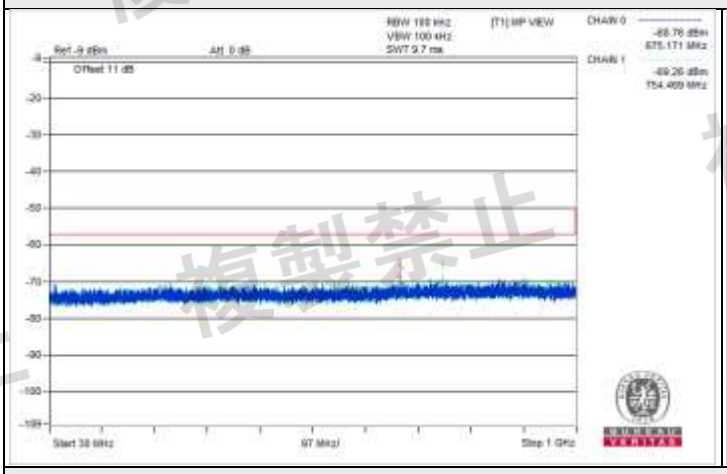
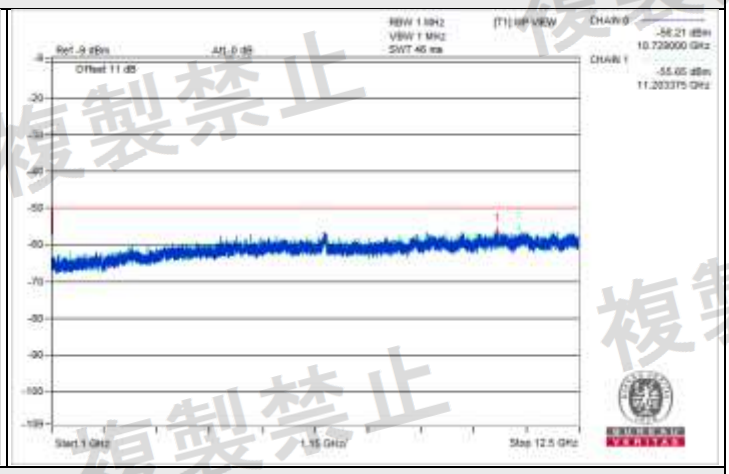
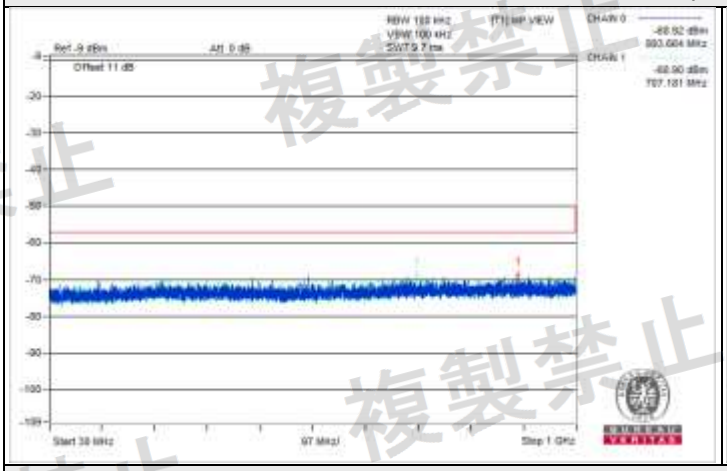
40 MHz System Graph

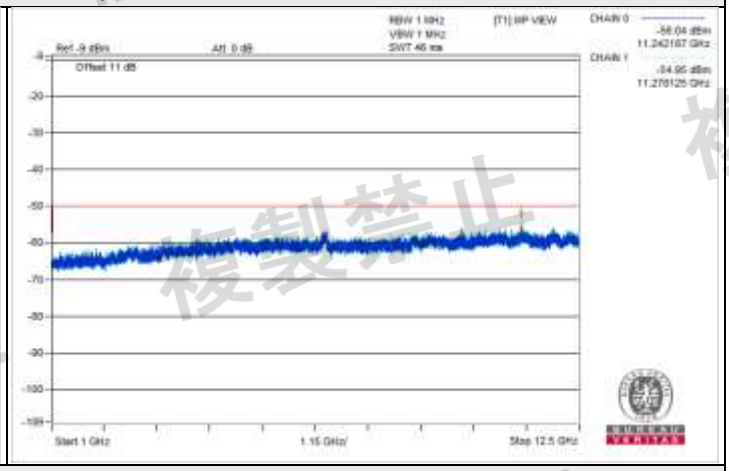
Vnormal



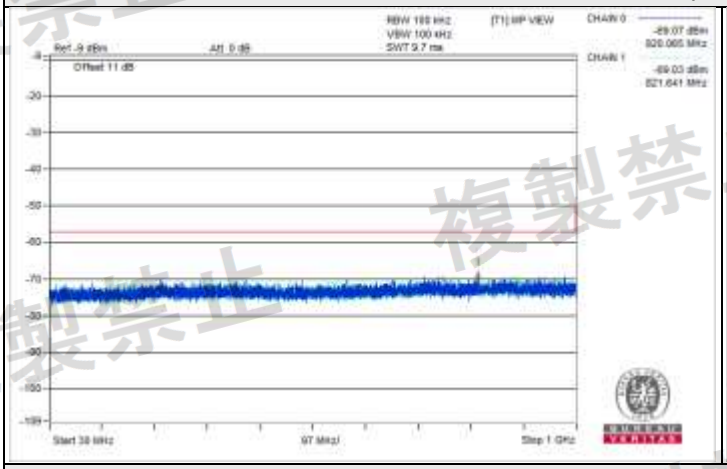


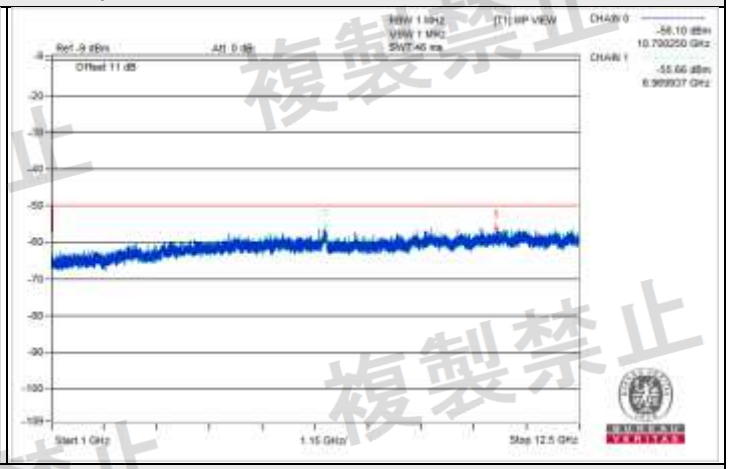
CH 3 (2422 MHz)





CH 7 (2442 MHz)





CH 11 (2462 MHz)

40 MHz System Sum of each Chain

TEST CHANNEL		CH 3 (2422 MHz)		
TEST CONDITION	FREQUENCY RANGE(MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	0.251622	4	PASS
	1000.0 to 12500.0	5.116017	20	PASS
TEST CHANNEL		CH 7 (2442 MHz)		
V_{normal}	30.0 to 1000.0	0.257058	4	PASS
	1000.0 to 12500.0	5.687752	20	PASS
TEST CHANNEL		CH 11 (2462 MHz)		
V_{normal}	30.0 to 1000.0	0.248906	4	PASS
	1000.0 to 12500.0	5.171148	20	PASS

7.5 Antenna Power

Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai

802.11b

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	3.134	2.986	6.12	15.373
	7	2442	3.200	3.077	6.277	15.767
	13	2472	3.049	2.945	5.994	15.056
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					6.3	-
Maximum Tolerance of Antenna Power (mW/MHz):					7.56	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 4 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

802.11g

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	3.014	2.959	5.973	15.003
	7	2442	3.056	3.028	6.084	15.282
	13	2472	3.098	2.959	6.057	15.214
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					6.1	-
Maximum Tolerance of Antenna Power (mW/MHz):					7.32	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 4 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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VHT20

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	3.021	2.780	5.801	14.571
	7	2442	3.267	2.845	6.112	15.353
	13	2472	2.932	2.787	5.719	14.365
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					6.1	-
Maximum Tolerance of Antenna Power (mW/MHz):					7.32	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 4 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

VHT40

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	3	2422	1.567	1.469	3.036	7.626
	7	2442	1.490	1.563	3.053	7.669
	11	2462	1.546	1.560	3.106	7.802
Maximum Limit (mW/MHz):					5	-
Rated Power (mW/MHz):					3.05	-
Maximum Tolerance of Antenna Power (mW/MHz):					3.66	-
Maximum EIRP Limit (mW/MHz):					-	8.184

Notes:

1. Antenna gain is 4 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)

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	3.007	3.014	6.021	15.124
	7	2442	3.148	2.965	6.113	15.355
	13	2472	3.028	3.021	6.049	15.194
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					6.1	-
Maximum Tolerance of Antenna Power (mW/MHz):					7.32	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 4 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)

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	3	2422	1.549	1.410	2.959	7.433
	7	2442	1.531	1.466	2.997	7.528
	11	2462	1.585	1.535	3.12	7.837
Maximum Limit (mW/MHz):					5	-
Rated Power (mW/MHz):					3.05	-
Maximum Tolerance of Antenna Power (mW/MHz):					3.66	-
Maximum EIRP Limit (mW/MHz):					-	8.184

Notes:

1. Antenna gain is 4 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

複製禁止

802.11be (EHT20)

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	1	2412	3.014	2.898	5.912	14.85
	7	2442	3.028	2.932	5.96	14.971
	13	2472	3.056	3.098	6.154	15.458
Maximum Limit (mW/MHz):					10	-
Rated Power (mW/MHz):					6.1	-
Maximum Tolerance of Antenna Power (mW/MHz):					7.32	-
Maximum EIRP Limit (mW/MHz):					-	16.368

Notes:

1. Antenna gain is 4 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

802.11be (EHT40)

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW/MHz)			Radiated RF Output Power Density (mW/MHz)
			Chain 0	Chain 1	Total Power Density	
48	3	2422	1.567	1.549	3.116	7.827
	7	2442	1.585	1.546	3.131	7.865
	11	2462	1.585	1.542	3.127	7.855
Maximum Limit (mW/MHz):					5	-
Rated Power (mW/MHz):					3.05	-
Maximum Tolerance of Antenna Power (mW/MHz):					3.66	-
Maximum EIRP Limit (mW/MHz):					-	8.184

Notes:

1. Antenna gain is 4 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 Number of Carriers within 1 MHz Bandwidth in OFDM

Environmental Conditions:	25°C, 60% RH	Tested By:	Dalen Dai

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.

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7.7 Interference Prevention Function

Environmental Conditions:	25°C, 60% RH	Tested By:	Dalen Dai

Link Mode	Test Result
WiFi	Pass

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7.8 Carrier Sense Capability

Environmental Conditions:	25°C, 60% RH	Tested By:	Dalen Dai

40 MHz System:

Antenna Gain (dBi)	Frequency (MHz)	Pcs (dBm)	Test Result
4	2422	-40.89	Pass
4	2442	-40.96	Pass
4	2462	-41.04	Pass

Note:

Pcs (dBm) = 22.79 + Gr - 20log(F).
Gr: Antenna gain (dBi).
F: Transmission frequency (MHz).

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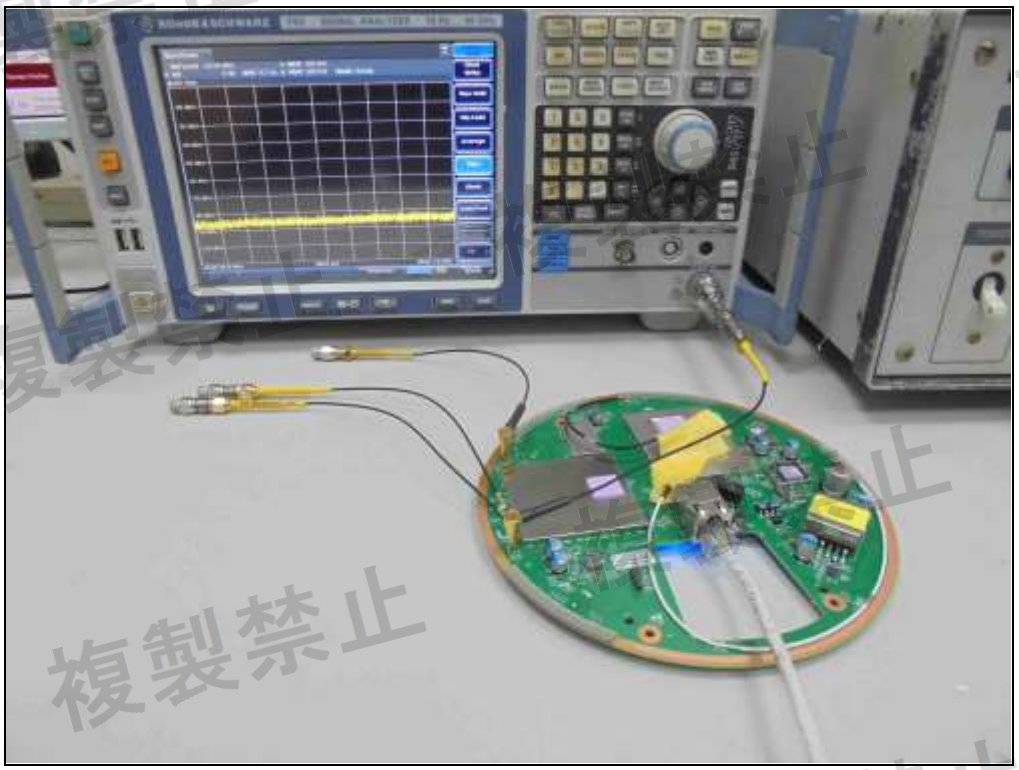
8 Pictures of Test Arrangements



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.

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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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