

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Report No.: RFBEIQ-WTW-P25060179-3

FCC ID: APYHRO00339

Product: Smart phone

Brand: SHARP

Received Date: 2025/6/25

Test Date: 2025/7/16 ~ 2025/7/29

Issued Date: 2025/9/2

Applicant: SHARP Corporation Mobile Communication BU

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003 for Test Location(1)

Designation Number: 281270 / TW0032 for Test Location(2)

Approved by:

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, Date:

2025/9/2

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Prepared by : Pettie Chen / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBEIQ-WTW-P25060179-3	Original release.	2025/9/2

1 Certificate

Product: Smart phone

Brand: SHARP

Sample Status: DVT

Applicant: SHARP Corporation Mobile Communication BU

Test Date: 2025/7/16 ~ 2025/7/29

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Measurement procedure: ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

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.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
Standard / Clause	Test Item	Result	Remark
15.247(b)	RF Output Power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.247(d)	Conducted Out of Band Emissions	Pass	Meet the requirement of limit.
15.207	AC Power Conducted Emissions	Pass	Minimum passing margin is -22.95 dB at 0.58565 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -14.9 dB at 617.82 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -6.0 dB at 2483.50 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Note: 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 CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) ($\pm$)
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.79 dB
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.90 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB

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	Smart phone
Brand	SHARP
Status of EUT	DVT
Power Supply Rating	5.0Vdc (from adapter) 3.89Vdc (from battery)
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDMA in 802.11ac mode 1024QAM for OFDMA in 802.11ax mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	Up to 286.8Mbps
Operating Frequency	2.412 GHz ~ 2.462 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 11 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 7
Output Power	25.061 mW (13.99 dBm)

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Description
Battery (Contain in Smart phone)	-	-	Rating: 3.89V, Rated 4950mAh (19.3Wh), Typ. 5000mAh(19.5Wh)
AC Charger (Support unit)	DSA	10PF06-05 FUS	Input Power: 100-240V, 50/60Hz, 0.3A Output Power: 5.0V $\overline{\square}$ 2 A, 10.0W
Data Cable (Type C Cable) (Support unit)	Kingpower	K201-05130-00	1m shielded cable without core
Headset (Support unit)	Apple	EarPods (USB-C)	1.14m

2. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.

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.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Type	Frequency range	Antenna Gain (dBi)	Connector Type
PIFA	2.4 GHz ~ 2.4835 GHz	-2.2	ipex(MHF)

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

2. The EUT incorporates a SISO function:

2.4 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11b	1TX	1RX
802.11g	1TX	1RX
802.11n (HT20)	1TX	1RX
802.11n (HT40)	1TX	1RX
802.11ac (VHT20)	1TX	1RX
802.11ac (VHT40)	1TX	1RX
802.11ax (HE20)	1TX	1RX
802.11ax (HE40)	1TX	1RX
802.11ax (RU26/52/106/242/484)	1TX	1RX

Note:

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

3.3 Channel List

11 channels are provided for 802.11b, 802.11g, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

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

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

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

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/Y-axis/Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. EUT can be used in the following ways: AC Charge/Headset. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	1. X-axis/Y-axis/Z-axis Worst Condition: Z-axis 2. AC Charge/Headset Worst Condition: AC Charge

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

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
RF Output Power	802.11b	1, 6, 11	DBPSK	1Mb/s	NA
	802.11g	1, 6, 11	BPSK	6Mb/s	NA
	802.11n (HT20)	1, 6, 11	BPSK	MCS0	NA
	802.11n (HT40)	3, 6, 9	BPSK	MCS0	NA
	802.11ax (HE20) Full RU	1, 6, 11	BPSK	MCS0	NA
	802.11ax (HE40) Full RU	3, 6, 9	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	1, 6, 11	BPSK	MCS0	0, 0, 8
	802.11ax (HE20) 52-tone RU	1, 6, 11	BPSK	MCS0	37, 37, 40
	802.11ax (HE20) 106-tone RU	1, 6, 11	BPSK	MCS0	53, 53, 54
	802.11ax (HE40) 242-tone RU	3, 6, 9	BPSK	MCS0	61, 61, 62
Power Spectral Density	802.11b	1, 6, 11	DBPSK	1Mb/s	NA
	802.11g	1, 6, 11	BPSK	6Mb/s	NA
	802.11ax (HE20) Full RU	1, 6, 11	BPSK	MCS0	NA
	802.11ax (HE40) Full RU	3, 6, 9	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	1, 6, 11	BPSK	MCS0	0, 0, 8
	802.11ax (HE20) 52-tone RU	1, 6, 11	BPSK	MCS0	37, 37, 40
	802.11ax (HE20) 106-tone RU	1, 6, 11	BPSK	MCS0	53, 53, 54
	802.11ax (HE40) 242-tone RU	3, 6, 9	BPSK	MCS0	61, 61, 62
6 dB Bandwidth	802.11b	1, 6, 11	DBPSK	1Mb/s	NA
	802.11g	1, 6, 11	BPSK	6Mb/s	NA
	802.11ax (HE20) Full RU	1, 6, 11	BPSK	MCS0	NA
	802.11ax (HE40) Full RU	3, 6, 9	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	1, 6, 11	BPSK	MCS0	0, 0, 8
	802.11ax (HE20) 52-tone RU	1, 6, 11	BPSK	MCS0	37, 37, 40
	802.11ax (HE20) 106-tone RU	1, 6, 11	BPSK	MCS0	53, 53, 54
	802.11ax (HE40) 242-tone RU	3, 6, 9	BPSK	MCS0	61, 61, 62
Conducted Out of Band Emissions	802.11b	1, 6, 11	DBPSK	1Mb/s	NA
	802.11g	1, 6, 11	BPSK	6Mb/s	NA
	802.11ax (HE20) Full RU	1, 6, 11	BPSK	MCS0	NA
	802.11ax (HE40) Full RU	3, 6, 9	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	1, 6, 11	BPSK	MCS0	0, 0, 8
	802.11ax (HE20) 52-tone RU	1, 6, 11	BPSK	MCS0	37, 37, 40
	802.11ax (HE20) 106-tone RU	1, 6, 11	BPSK	MCS0	53, 53, 54
	802.11ax (HE40) 242-tone RU	3, 6, 9	BPSK	MCS0	61, 61, 62

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
AC Power Conducted Emissions	802.11ax (HE20) Full RU	6	BPSK	MCS0	NA
Unwanted Emissions below 1 GHz	802.11ax (HE20) Full RU	6	BPSK	MCS0	NA
Unwanted Emissions above 1 GHz	802.11b	1, 6, 11	DBPSK	1Mb/s	NA
	802.11g	1, 6, 11	BPSK	6Mb/s	NA
	802.11ax (HE20) Full RU	1, 6, 11	BPSK	MCS0	NA
	802.11ax (HE40) Full RU	3, 6, 9	BPSK	MCS0	NA
	802.11ax (HE20) 26-tone RU	1, 6, 11	BPSK	MCS0	0, 0, 8
	802.11ax (HE20) 52-tone RU	1, 6, 11	BPSK	MCS0	37, 37, 40
	802.11ax (HE20) 106-tone RU	1, 6, 11	BPSK	MCS0	53, 53, 54
	802.11ax (HE40) 242-tone RU	3, 6, 9	BPSK	MCS0	61, 61, 62

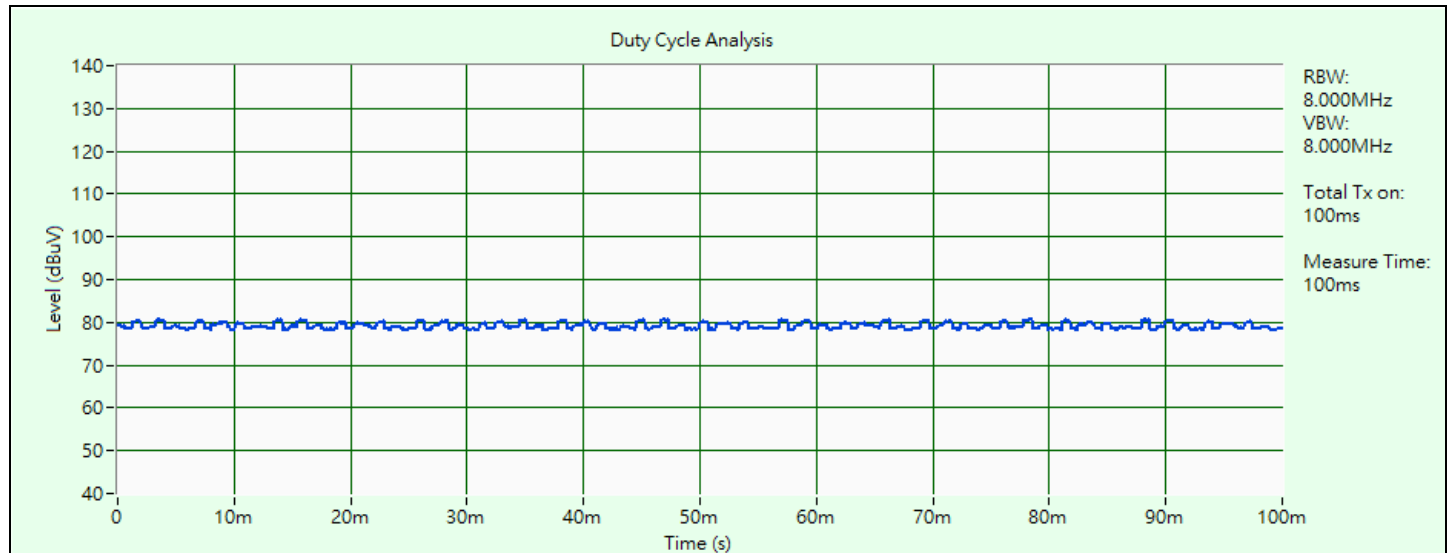
3.5 Duty Cycle of Test Signal

802.11b: Duty cycle = 100 ms / 100 ms x 100% = 100.0%

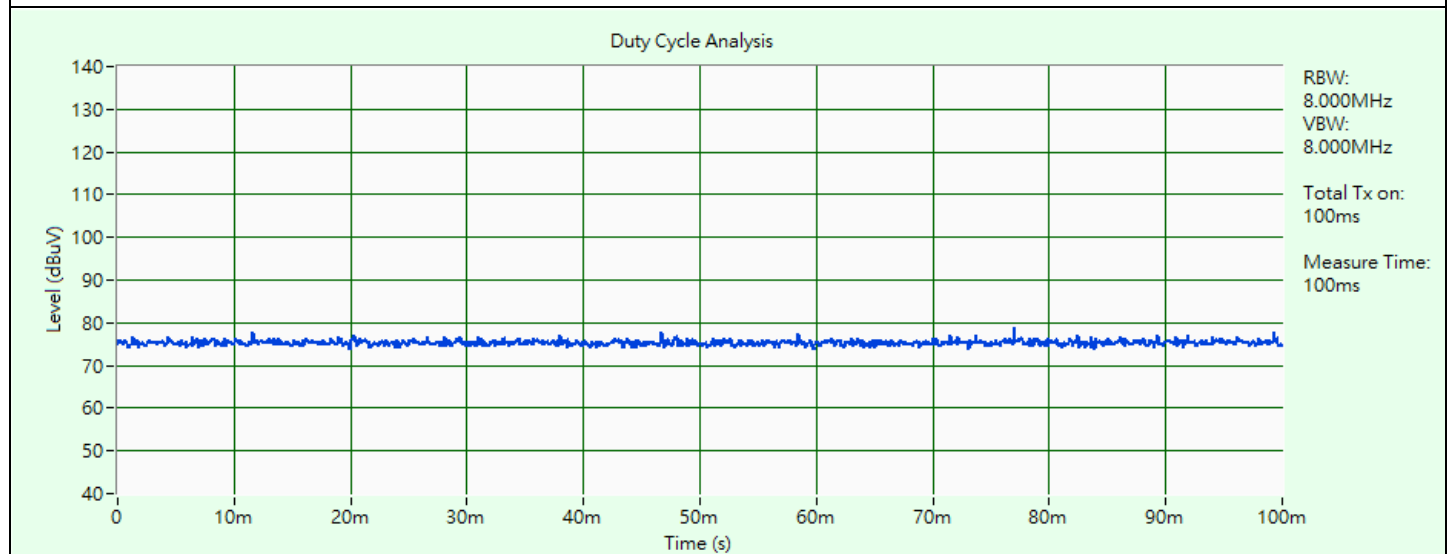
802.11g: Duty cycle = 100 ms / 100 ms x 100% = 100.0%

802.11ax (HE20): Duty cycle = 100 ms / 100 ms x 100% = 100.0%

802.11ax (HE40): Duty cycle = 100 ms / 100 ms x 100% = 100.0%

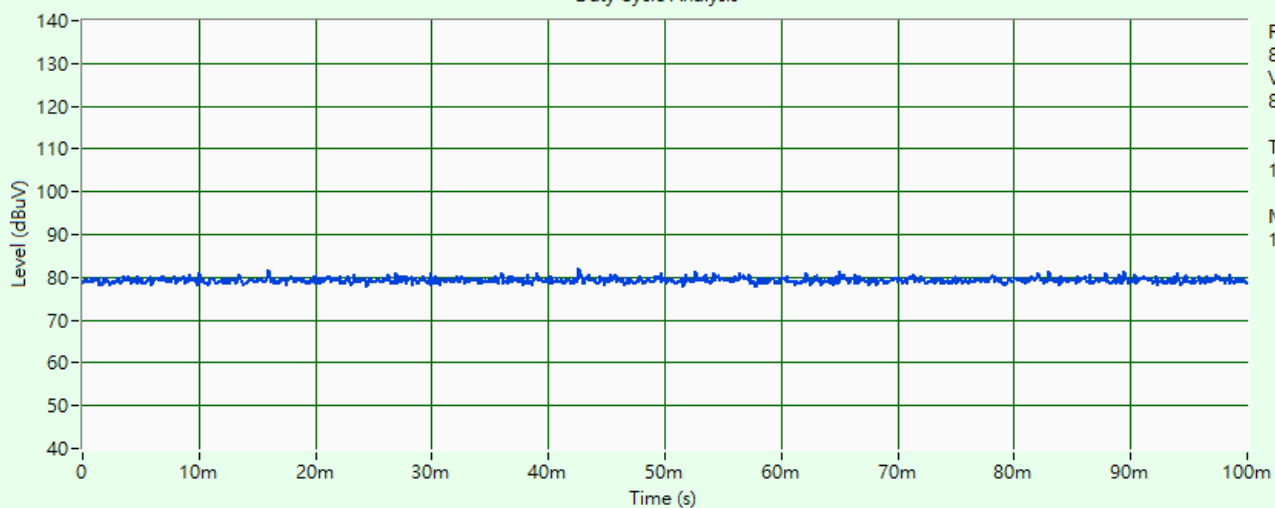


802.11b



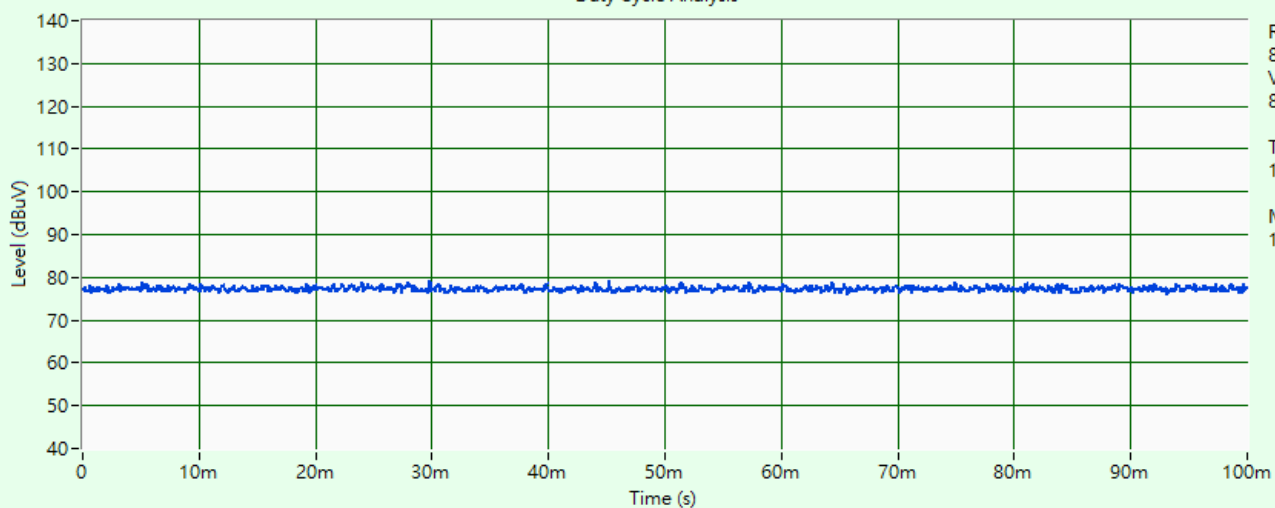
802.11g

Duty Cycle Analysis



802.11ax (HE20)

Duty Cycle Analysis

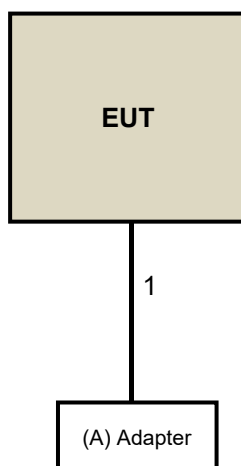


802.11ax (HE40)

3.6 Test Program Used and Operation Descriptions

Controlling software QRCT V4.0.210.0 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	DSA	10PF06-05 FUS	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Data Cable	1	1	Y	0	Supplied by applicant

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 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Peak Power Analyzer Keysight	8990B	MY51000485	2025/1/20	2026/1/19
Wideband Power Sensor Keysight	N1923A	MY58020002	2025/1/21	2026/1/20
		MY58140009	2025/1/21	2026/1/20

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/7/25 ~ 2025/7/29

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSW43	101582	2025/4/15	2026/4/14
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/7/25 ~ 2025/7/29

4.3 6 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSW43	101582	2025/4/15	2026/4/14
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/7/25

4.4 Conducted Out of Band Emissions

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

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	E1-011279	04	2024/11/28	2025/11/27
	E1-011280	05	2024/11/28	2025/11/27
	E1-011311	09	2024/11/28	2025/11/27
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2024/11/5	2025/11/4
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01617	2025/4/27	2026/4/26
EMI Test Receiver R&S	ESR3	102783	2024/12/17	2025/12/16
LISN R&S	ESH2-Z5	100100	2025/3/5	2026/3/4
	ESH3-Z5	100312	2024/9/9	2025/9/8
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2024/8/25	2025/8/24
Software BVADT	BVADT_Conc_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2024/8/28	2025/8/27

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2025/7/22

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1213	2024/10/14	2025/10/13
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
MXE EMI Receiver Keysight	N9038B	MY60180019	2025/1/15	2026/1/14
Preamplifier EMCI	EMC330N	980782	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201233	2025/1/14	2026/1/13
	EMCCFD400-NM-NM-3000	201235	2025/1/14	2026/1/13
	EMCCFD400-NM-NM-9000	201236(with PAD)	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2025/7/22

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Horn Antenna RFSPIN	DRH18-E	210103A18E	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2024/11/10	2025/11/9
MXE EMI Receiver Keysight	N9038B	MY60180019	2025/1/15	2026/1/14
Preamplifier EMCI	EMC118A45SE	980808	2024/12/26	2025/12/25
	EMC184045SE	980788	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2025/1/14	2026/1/13
	EMC101G-KM-KM-3000	201258	2025/1/14	2026/1/13
	EMC101G-KM-KM-5000	201261	2025/1/14	2026/1/13
	EMC104-SM-SM-1000	210102	2025/1/14	2026/1/13
	EMC104-SM-SM-3000	201231	2025/1/14	2026/1/13
	EMC104-SM-SM-9000	201243	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2025/7/16 ~ 2025/7/21

5 Limits of Test Items

5.1 RF Output Power

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

5.2 Power Spectral Density

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz.

5.3 6 dB Bandwidth

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

5.4 Conducted Out of Band Emissions

Below 30 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

5.5 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.6 Unwanted Emissions below 1 GHz

Radiated emissions up to 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.7 Unwanted Emissions above 1 GHz

Radiated emissions above 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

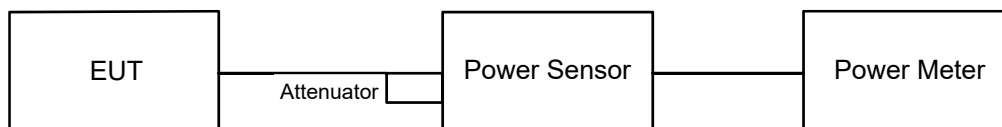
Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



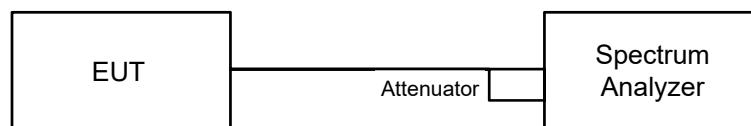
6.1.2 Test Procedure

Average Power:

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

6.2 Power Spectral Density

6.2.1 Test Setup



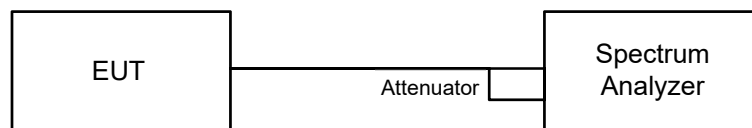
6.2.2 Test Procedure

- Measure the duty cycle (x).
- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to: 3 kHz.
- Set VBW $\geq 3 \times$ RBW.
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep $\geq 2 \times$ span/RBW.
- Sweep time = auto couple.
- Do not use sweep triggering. Allow sweep to "free run".
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.

Note: If Duty cycle < 98%, Add $10 \log (1/x)$, where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time.

6.3 6 dB Bandwidth

6.3.1 Test Setup

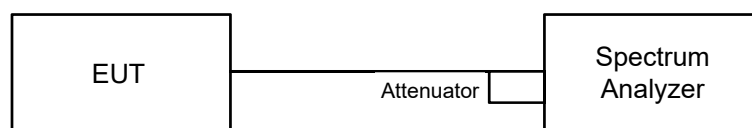


6.3.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

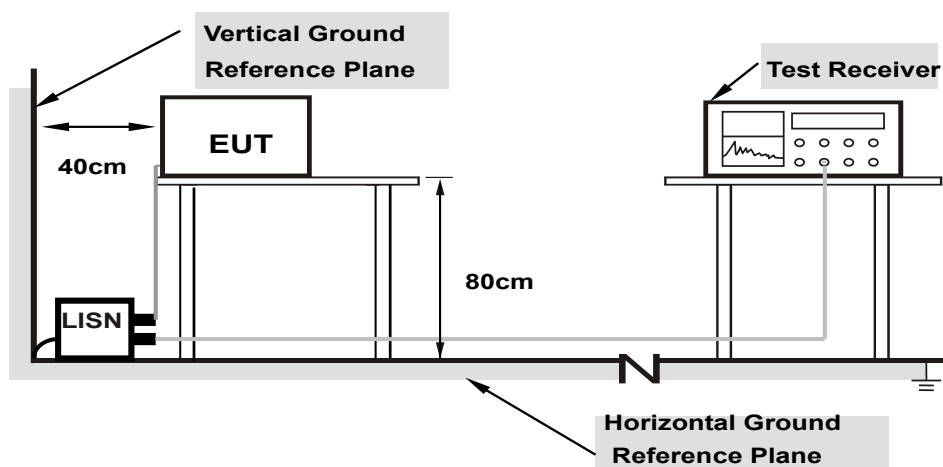
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

- Set RBW = 100 kHz.
- Set VBW ≥ 300 kHz.
- Detector = peak.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

6.5 AC Power Conducted Emissions

6.5.1 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.5.2 Test Procedure

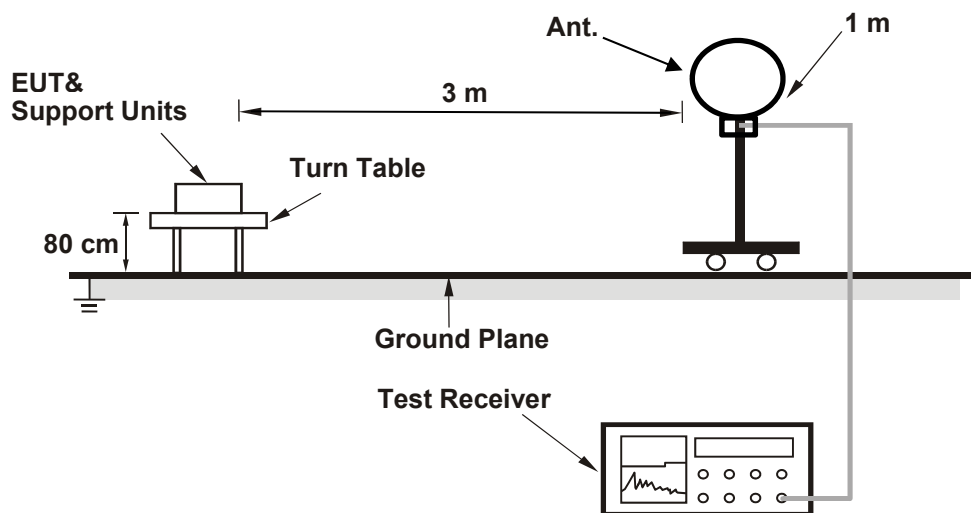
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

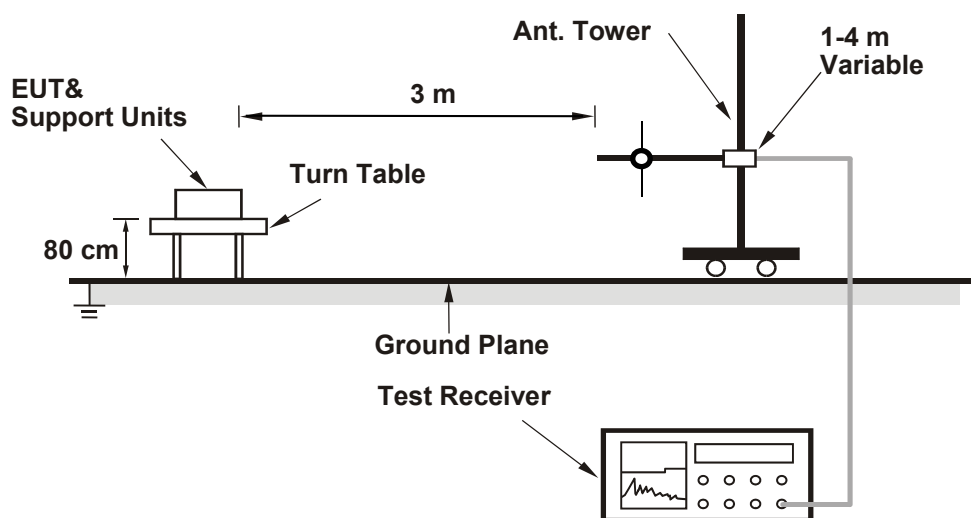
6.6 Unwanted Emissions below 1 GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.6.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

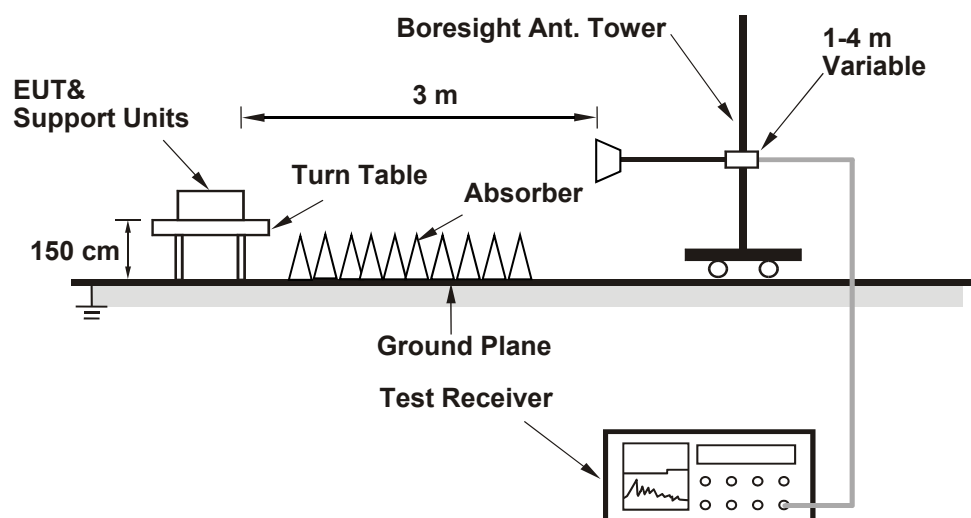
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	3.89 Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Ian Chang
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802.11b

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	24.491	13.89	30	Pass
6	2437	23.878	13.78	30	Pass
11	2462	23.121	13.64	30	Pass

Note: The antenna gain is -2.2 dBi <= 6 dBi, so the output power limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	24.889	13.96	30	Pass
6	2437	24.831	13.95	30	Pass
11	2462	24.099	13.82	30	Pass

Note: The antenna gain is -2.2 dBi <= 6 dBi, so the output power limit shall not be reduced.

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	24.547	13.90	30	Pass
6	2437	24.66	13.92	30	Pass
11	2462	22.803	13.58	30	Pass

Note: The antenna gain is -2.2 dBi <= 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
3	2422	23.121	13.64	30	Pass
6	2437	24.266	13.85	30	Pass
9	2452	23.121	13.64	30	Pass

Note: The antenna gain is -2.2 dBi <= 6 dBi, so the output power limit shall not be reduced.

Full RU:

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	25.003	13.98	30	Pass
6	2437	25.061	13.99	30	Pass
11	2462	23.227	13.66	30	Pass

Note: The antenna gain is -2.2 dBi <= 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
3	2422	23.714	13.75	30	Pass
6	2437	24.946	13.97	30	Pass
9	2452	23.659	13.74	30	Pass

Note: The antenna gain is -2.2 dBi <= 6 dBi, so the output power limit shall not be reduced.

Partial RU:

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	2.999	4.77	30	Pass
6	2437	3.112	4.93	30	Pass
11	2462	2.985	4.75	30	Pass

Note: The antenna gain is -2.2 dBi ≤ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	6.053	7.82	30	Pass
6	2437	5.649	7.52	30	Pass
11	2462	5.957	7.75	30	Pass

Note: The antenna gain is -2.2 dBi ≤ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
1	2412	11.402	10.57	30	Pass
6	2437	12.56	10.99	30	Pass
11	2462	11.588	10.64	30	Pass

Note: The antenna gain is -2.2 dBi ≤ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) 242-tone RU

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
3	2422	11.94	10.77	30	Pass
6	2437	12.359	10.92	30	Pass
9	2452	12.474	10.96	30	Pass

Note: The antenna gain is -2.2 dBi ≤ 6 dBi, so the output power limit shall not be reduced.

7.2 Power Spectral Density

Input Power:	3.89 Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Ian Chang
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802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-15.00	8	Pass
6	2437	-15.07	8	Pass
11	2462	-16.75	8	Pass

Note: The antenna gain is -2.2 dBi <= 6 dBi, so the power density limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-19.24	8	Pass
6	2437	-19.28	8	Pass
11	2462	-20.77	8	Pass

Note: The antenna gain is -2.2 dBi <= 6 dBi, so the power density limit shall not be reduced.

Full RU:

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-21.46	8	Pass
6	2437	-21.08	8	Pass
11	2462	-21.76	8	Pass

Note: The antenna gain is -2.2 dBi <= 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
3	2422	-24.82	8	Pass
6	2437	-24.23	8	Pass
9	2452	-25.12	8	Pass

Note: The antenna gain is -2.2 dBi <= 6 dBi, so the power density limit shall not be reduced.

Partial RU:

802.11ax (HE20) 26-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-22.96	8	Pass
6	2437	-22.44	8	Pass
11	2462	-23.00	8	Pass

Note: The antenna gain is -2.2 dBi <= 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 52-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-23.02	8	Pass
6	2437	-23.68	8	Pass
11	2462	-23.11	8	Pass

Note: The antenna gain is -2.2 dBi <= 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20) 106-tone RU

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
1	2412	-22.45	8	Pass
6	2437	-21.91	8	Pass
11	2462	-22.09	8	Pass

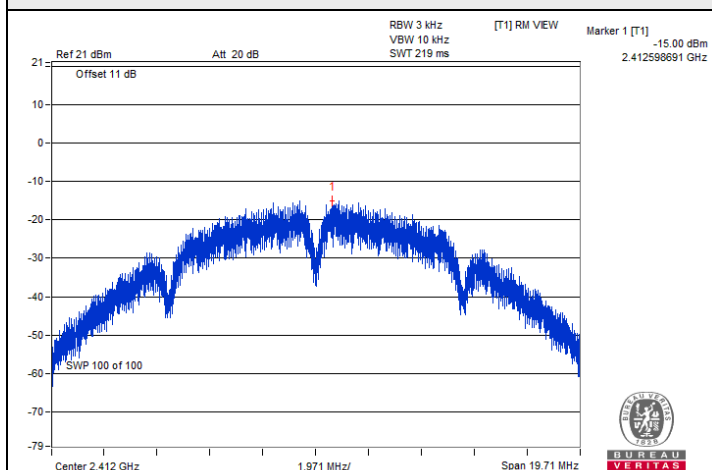
Note: The antenna gain is -2.2 dBi <= 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40) 242-tone RU

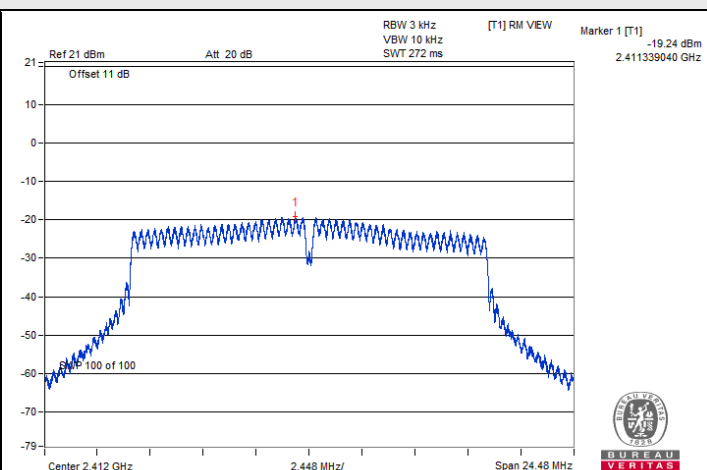
Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
3	2422	-24.49	8	Pass
6	2437	-24.15	8	Pass
9	2452	-24.05	8	Pass

Note: The antenna gain is -2.2 dBi <= 6 dBi, so the power density limit shall not be reduced.

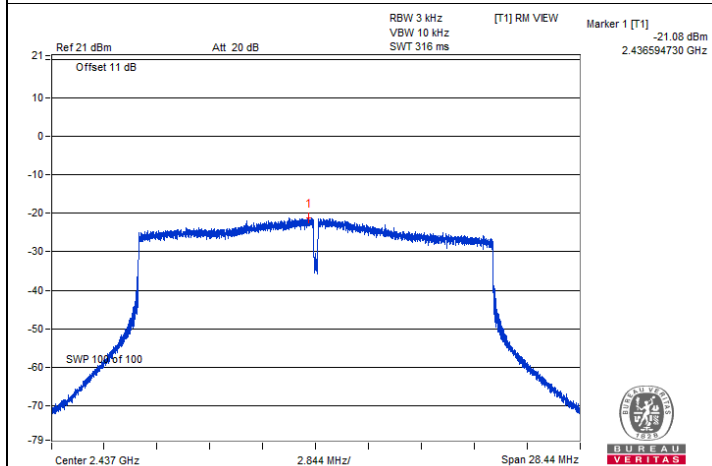
Spectrum Plot of Maximum Value



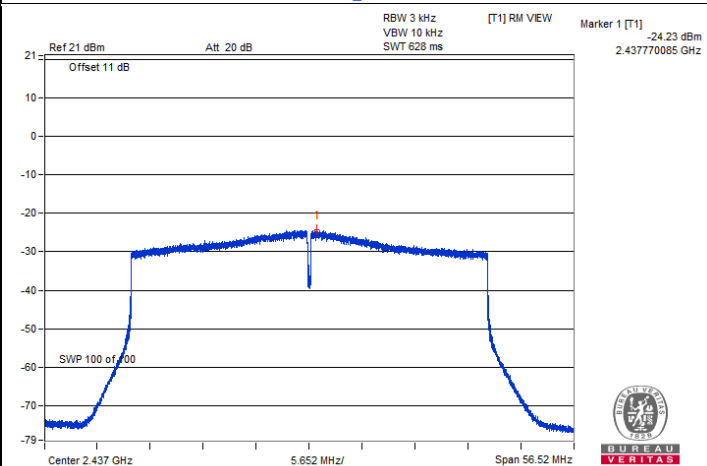
802.11b : CH 1



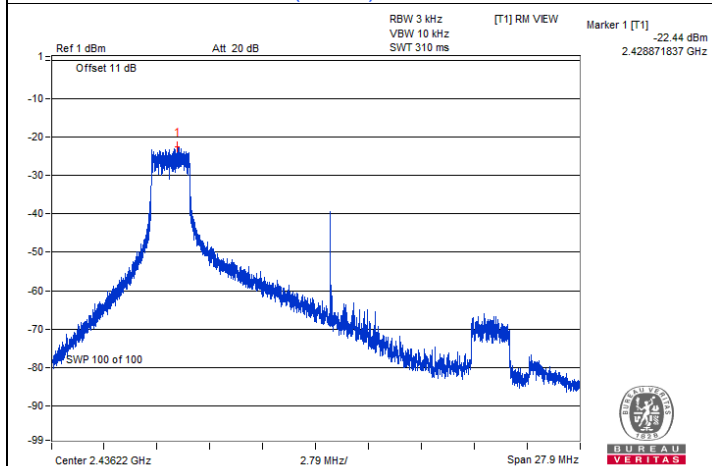
802.11g : CH 1



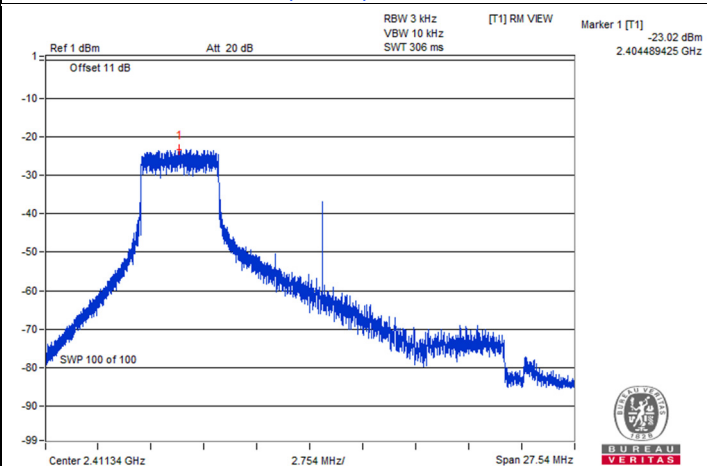
802.11ax (HE20) Full RU : CH 6



802.11ax (HE40) Full RU : CH 6

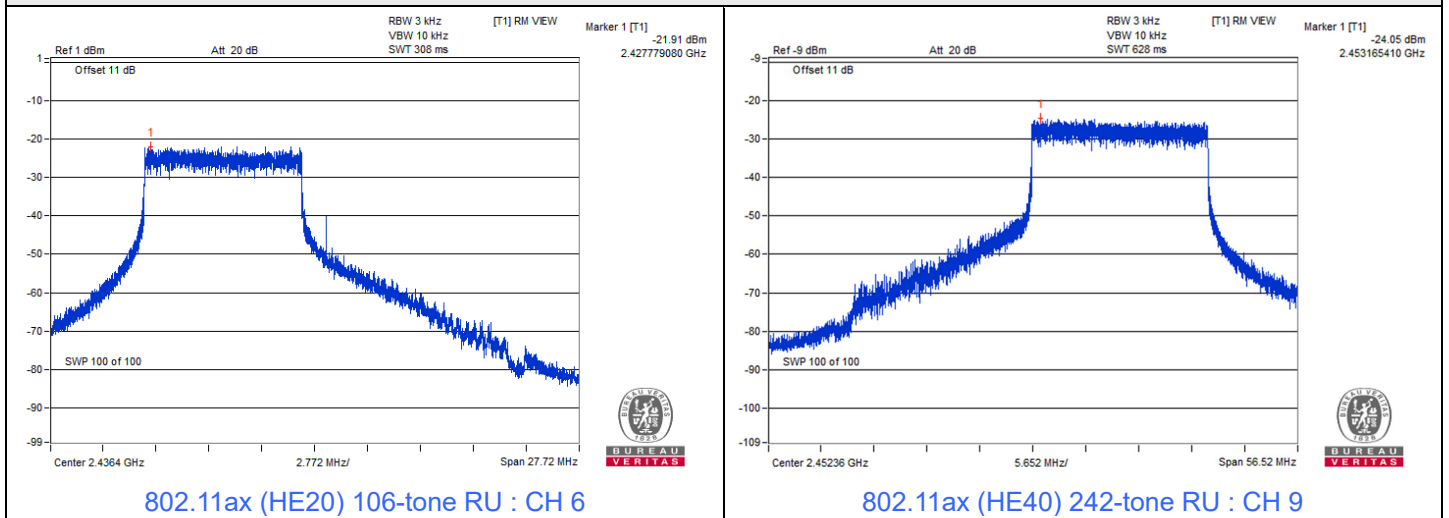


802.11ax (HE20) 26-tone RU : CH 6



802.11ax (HE20) 52-tone RU : CH 1

Spectrum Plot of Maximum Value



7.3 6 dB Bandwidth

Input Power:	3.89 Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Ian Chang
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802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	8.57	0.5	Pass
6	2437	8.12	0.5	Pass
11	2462	8.09	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	15.16	0.5	Pass
6	2437	15.19	0.5	Pass
11	2462	15.1	0.5	Pass

Full RU:

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	16.81	0.5	Pass
6	2437	16.6	0.5	Pass
11	2462	15.43	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
3	2422	35.68	0.5	Pass
6	2437	34.65	0.5	Pass
9	2452	36.54	0.5	Pass

Partial RU:

802.11ax (HE20) 26-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	2.09	0.5	Pass
6	2437	2.13	0.5	Pass
11	2462	2.13	0.5	Pass

802.11ax (HE20) 52-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.12	0.5	Pass
6	2437	17.12	0.5	Pass
11	2462	17.11	0.5	Pass

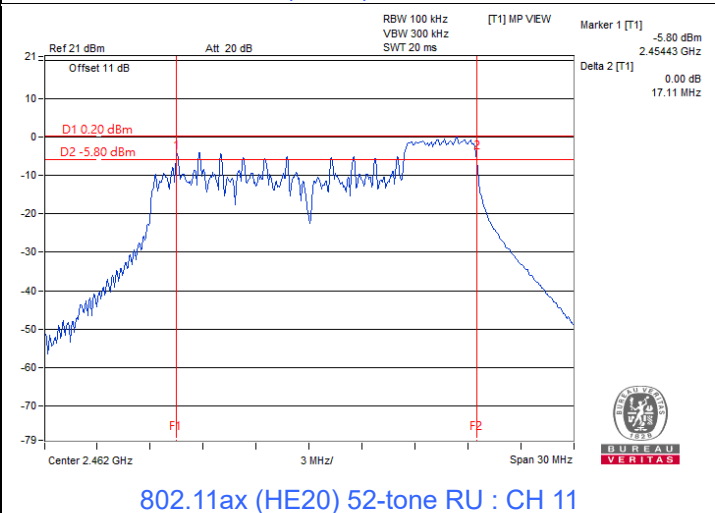
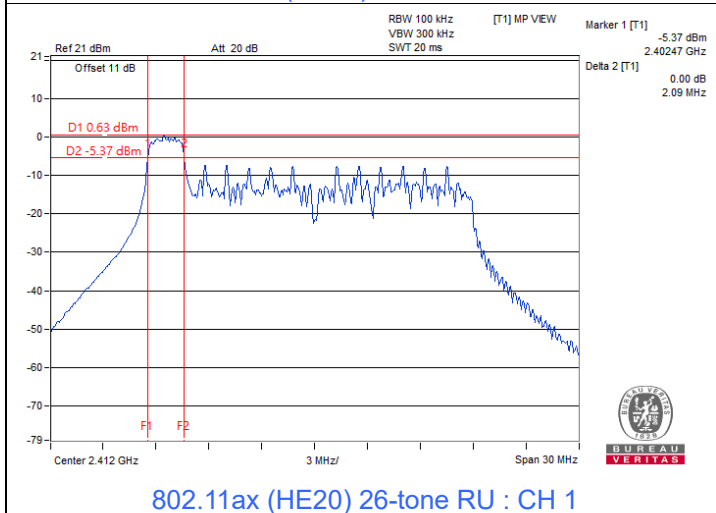
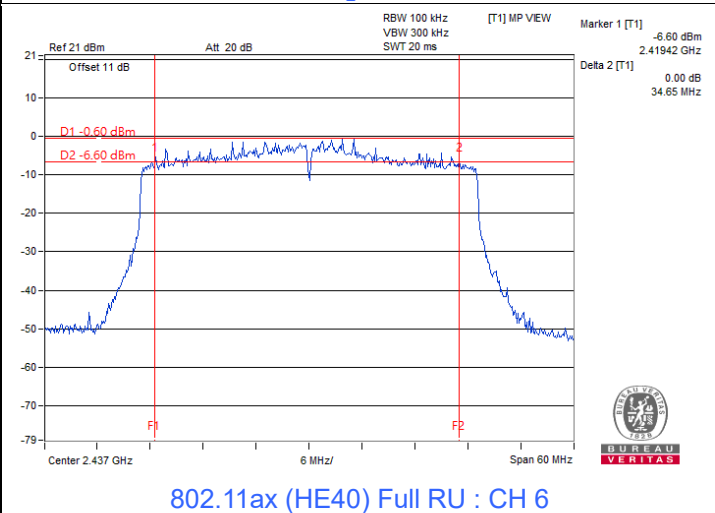
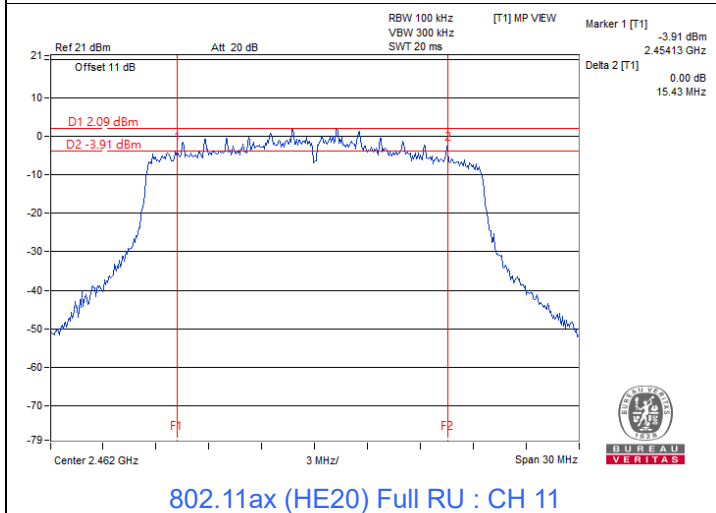
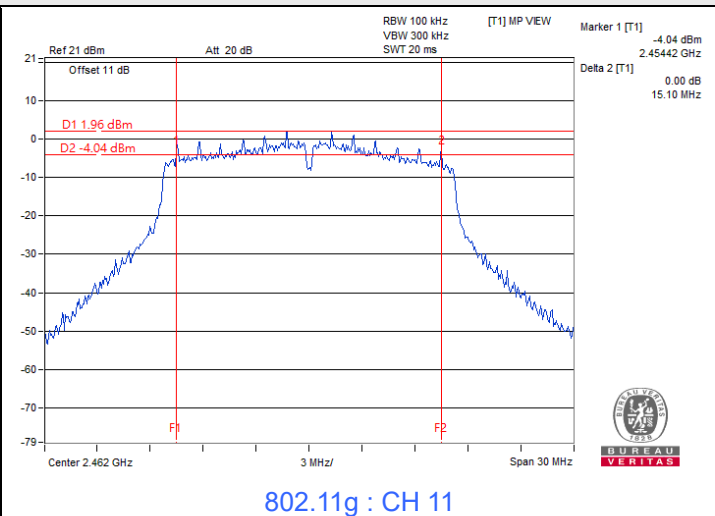
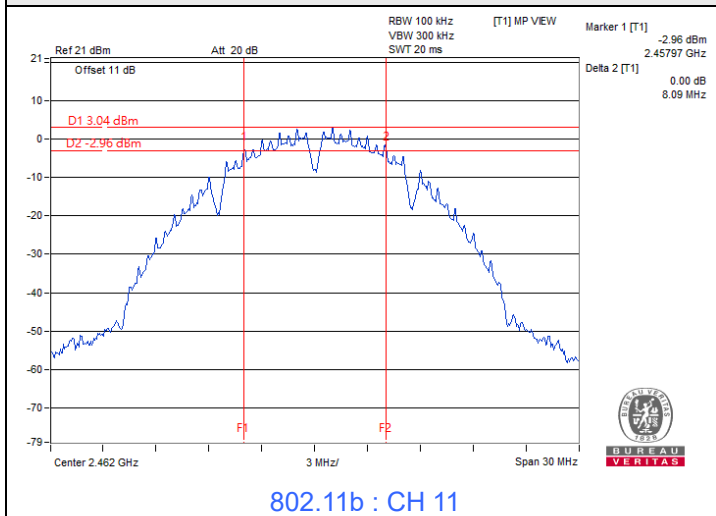
802.11ax (HE20) 106-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
1	2412	17.23	0.5	Pass
6	2437	18.19	0.5	Pass
11	2462	17.21	0.5	Pass

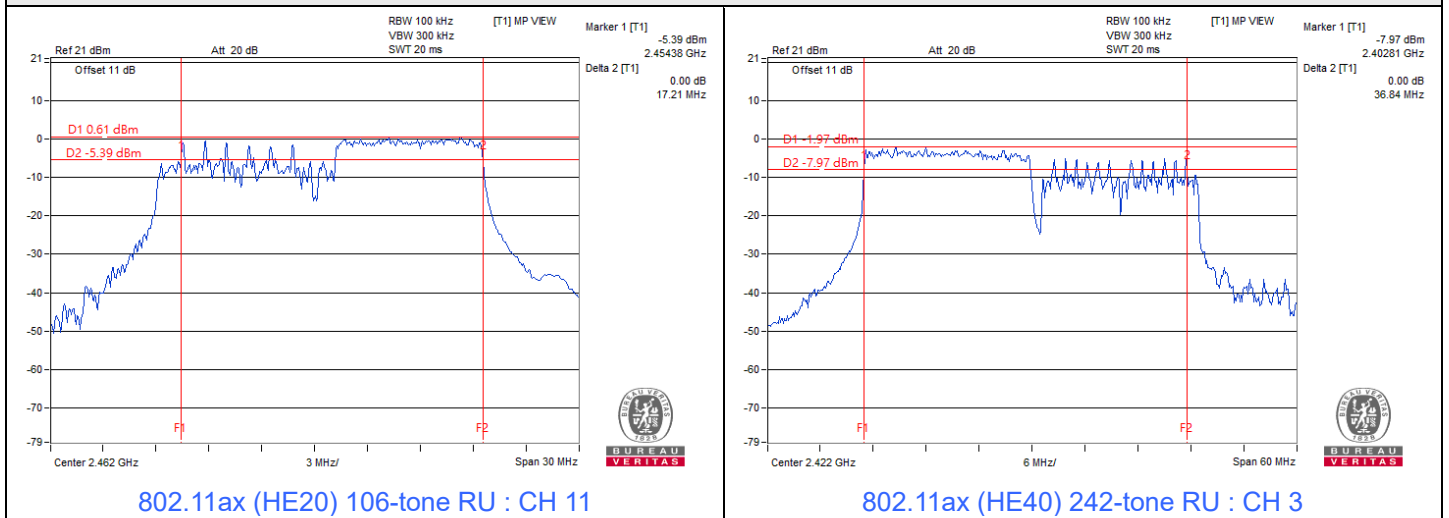
802.11ax (HE40) 242-tone RU

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
3	2422	36.84	0.5	Pass
6	2437	36.86	0.5	Pass
9	2452	36.93	0.5	Pass

Spectrum Plot of Minimum Value



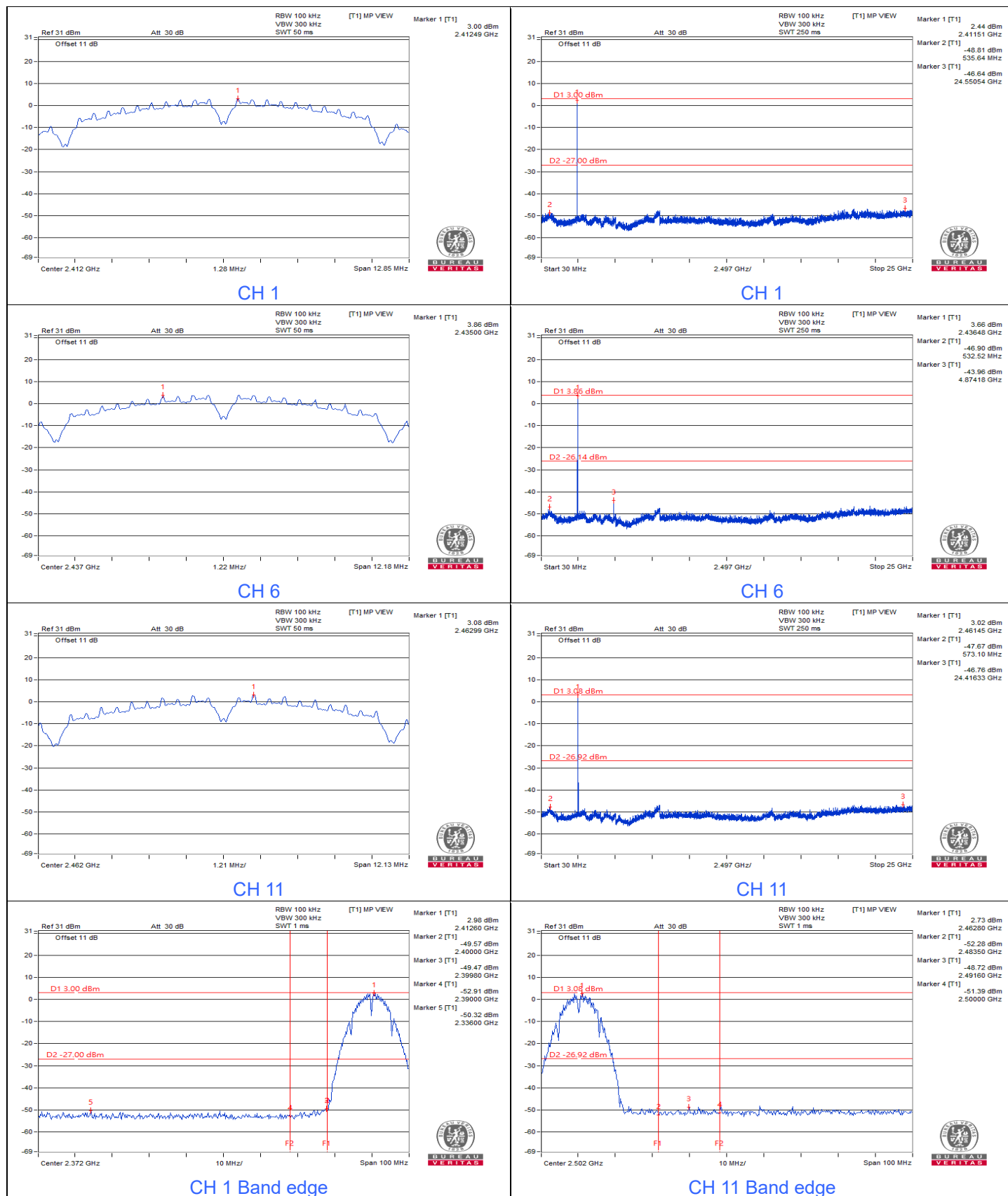
Spectrum Plot of Minimum Value



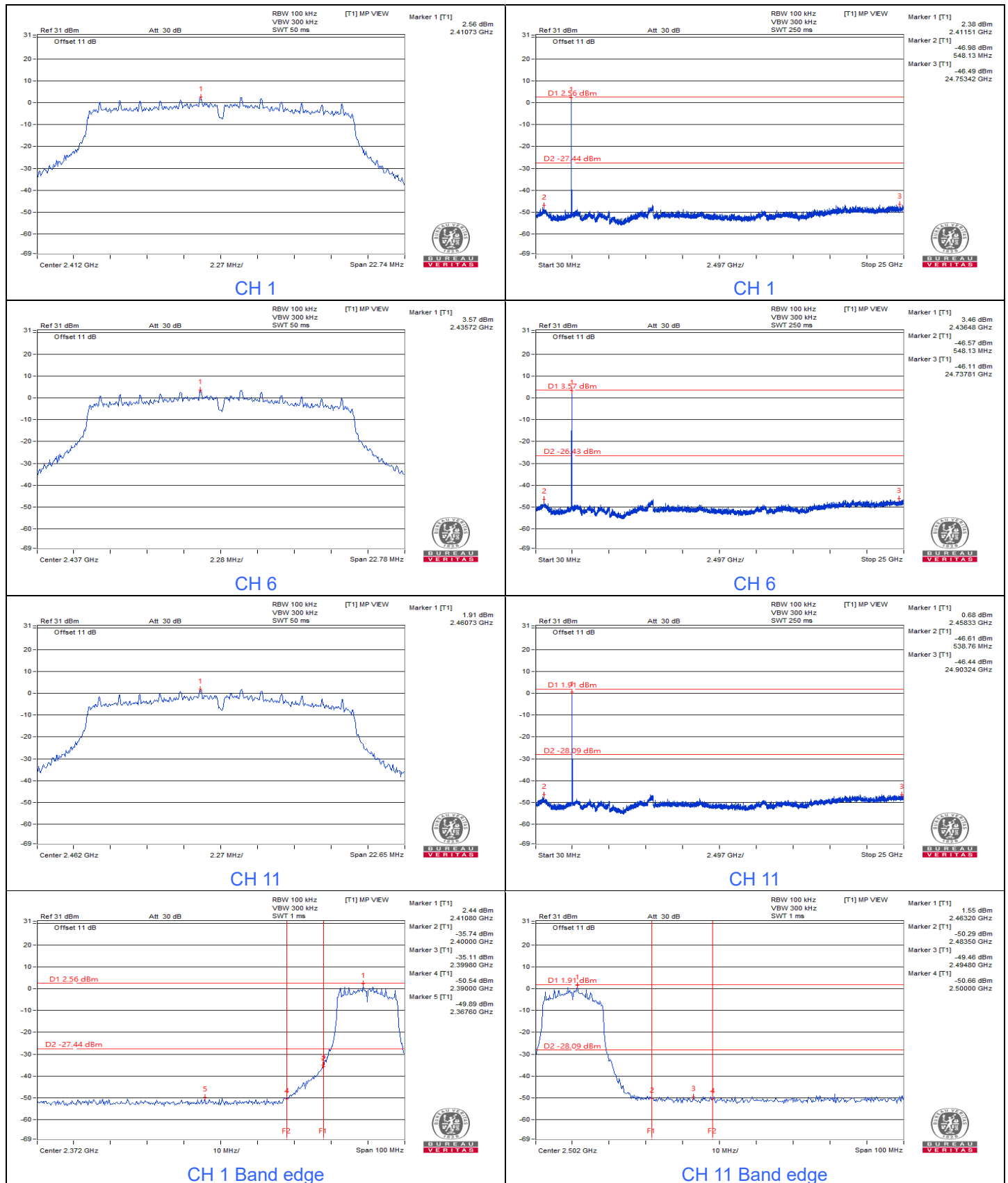
7.4 Conducted Out of Band Emissions

Input Power:	3.89 Vdc	Environmental Conditions:	25°C, 76% RH	Tested By:	Ian Chang
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802.11b



802.11g

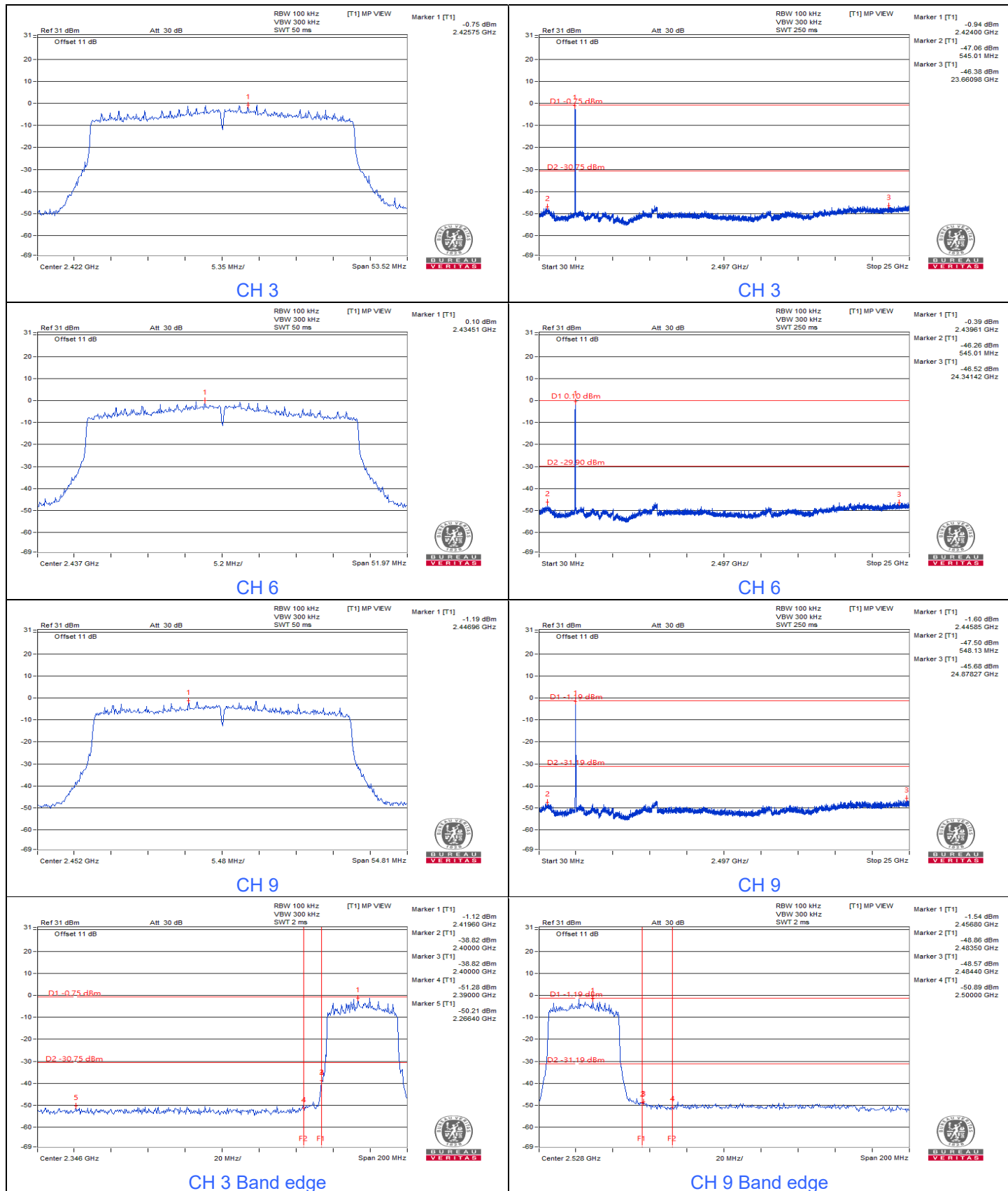


Full RU:

802.11ax (HE20)

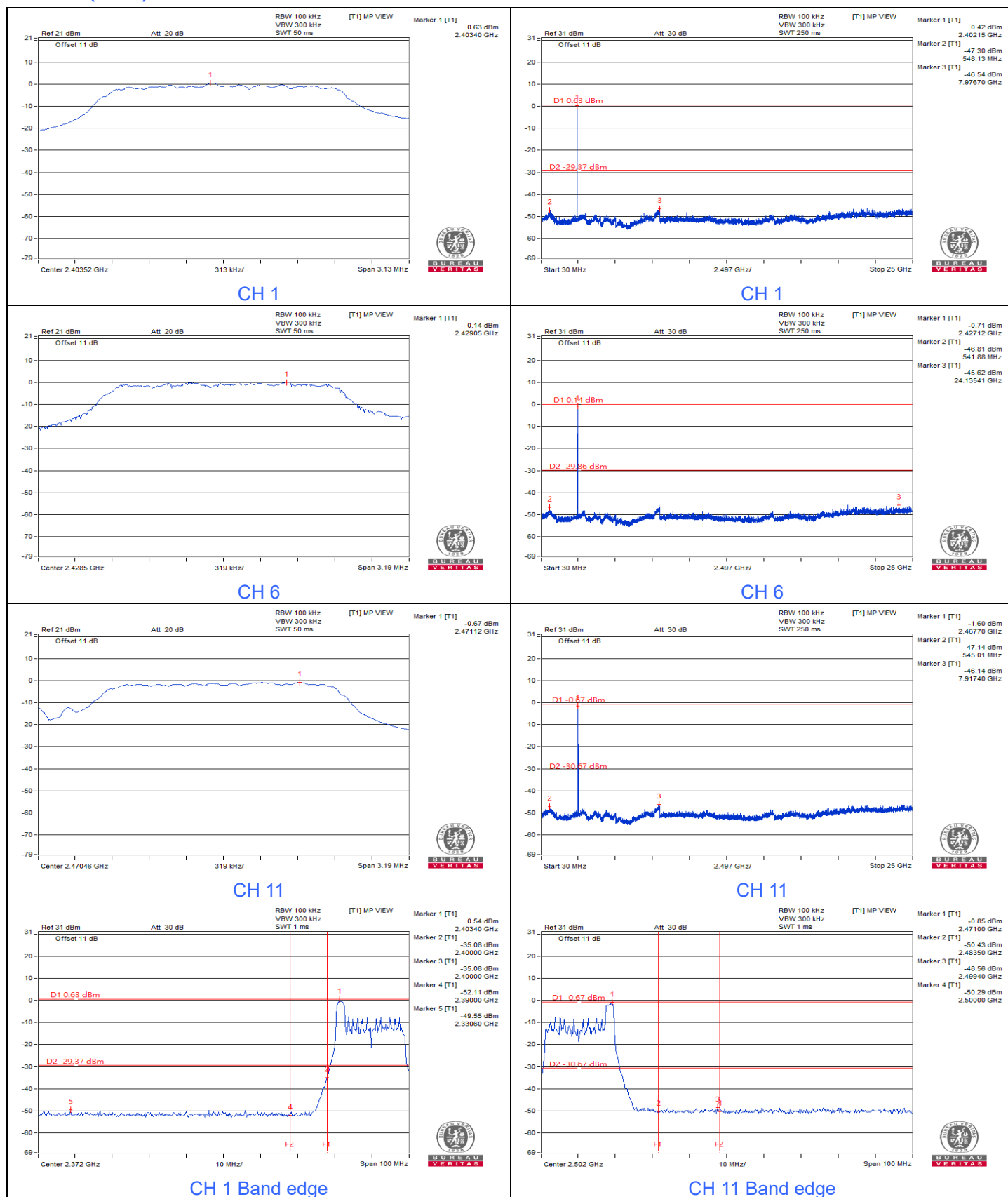


802.11ax (HE40)

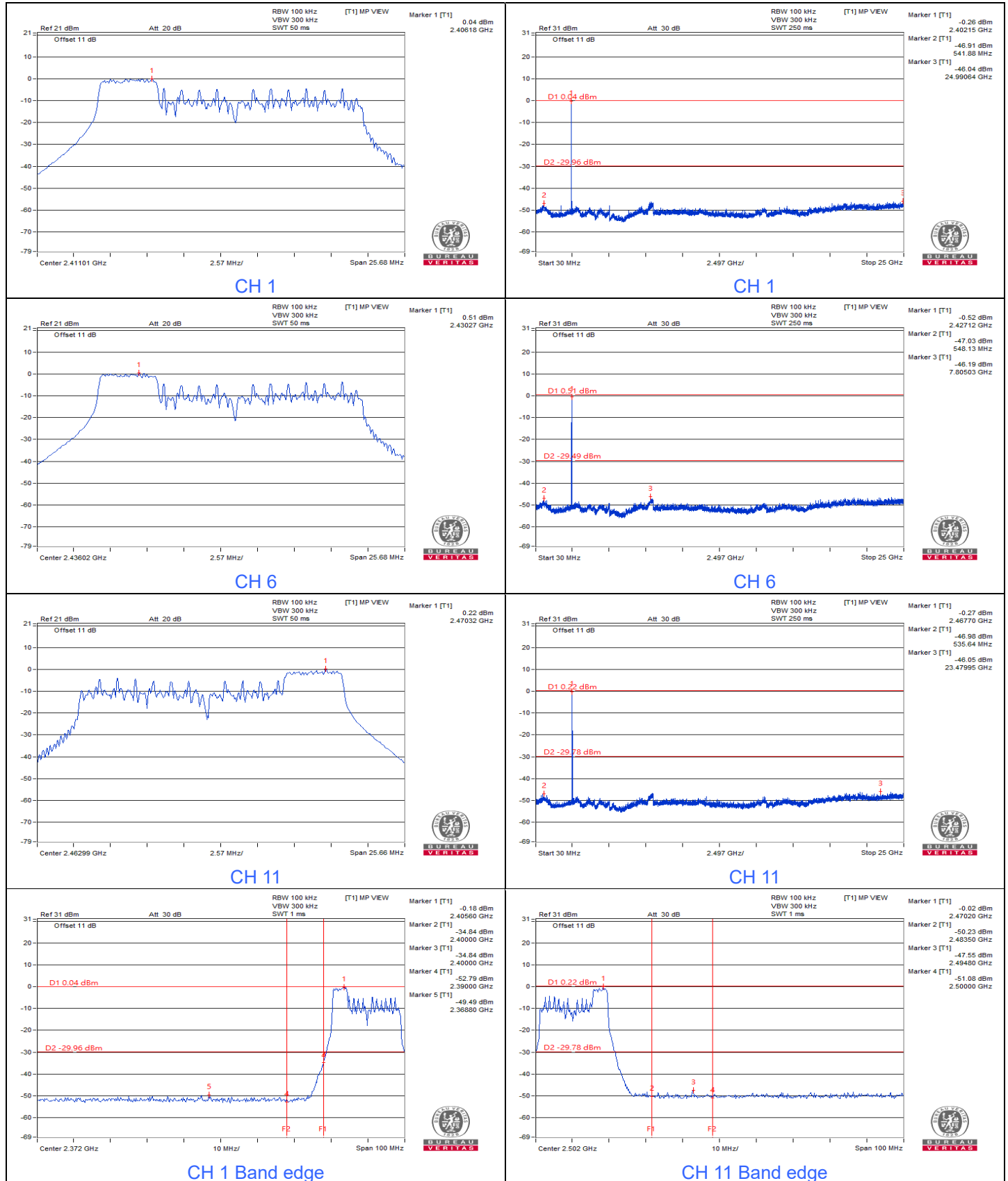


Partial RU:

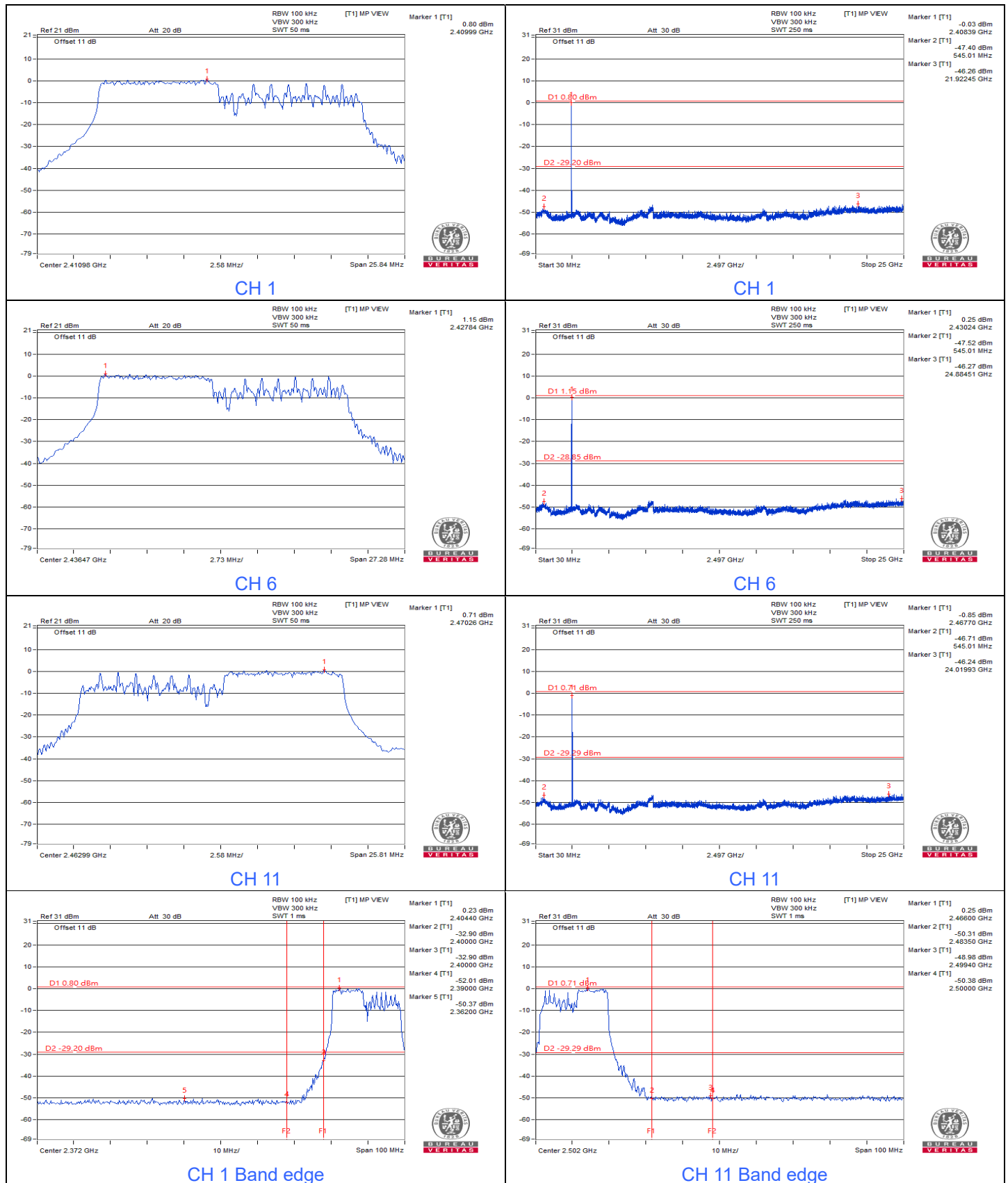
802.11ax (HE20) 26-tone RU



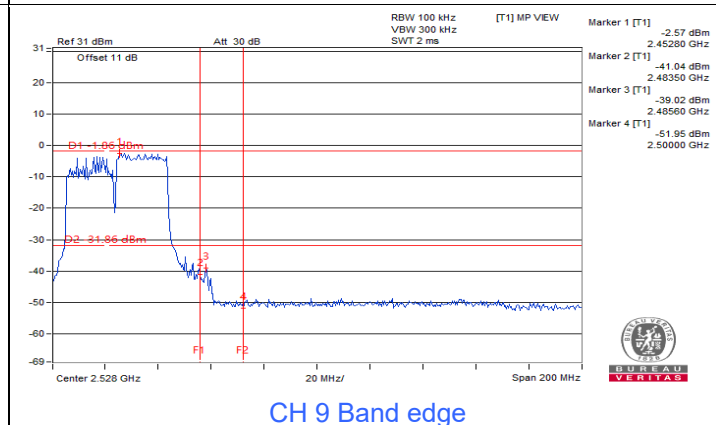
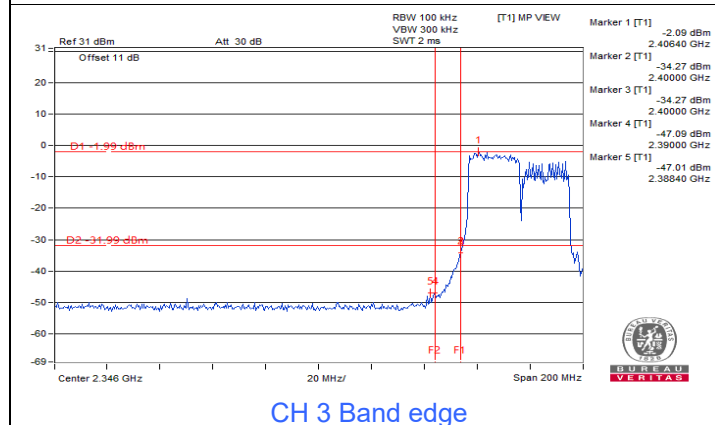
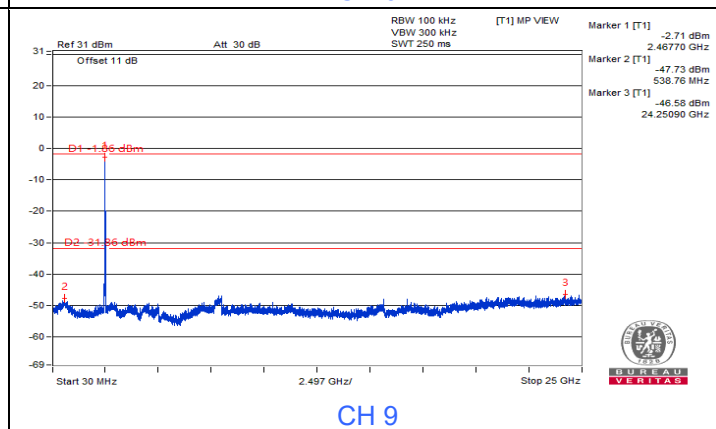
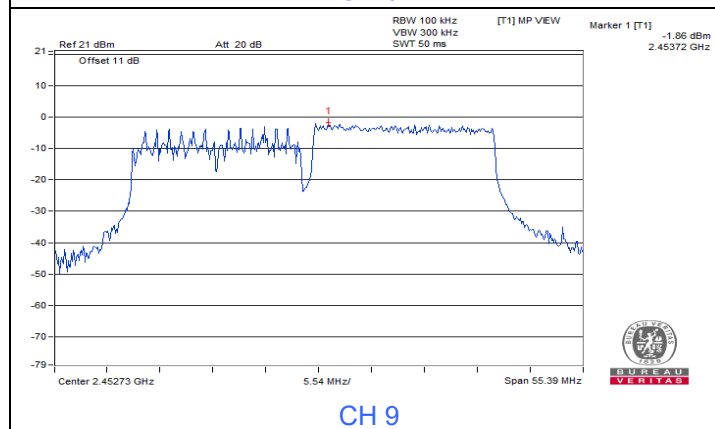
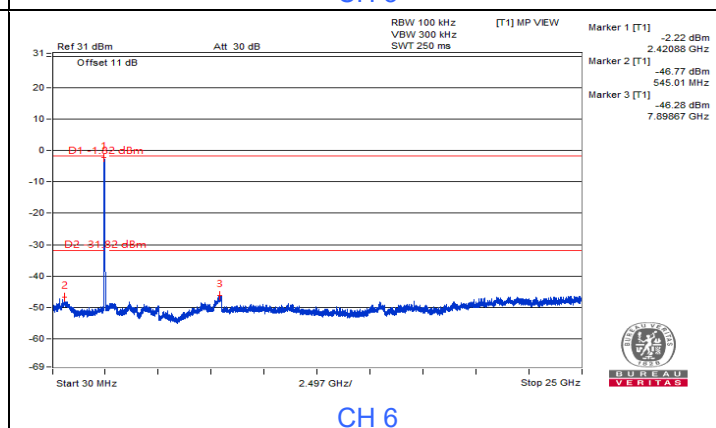
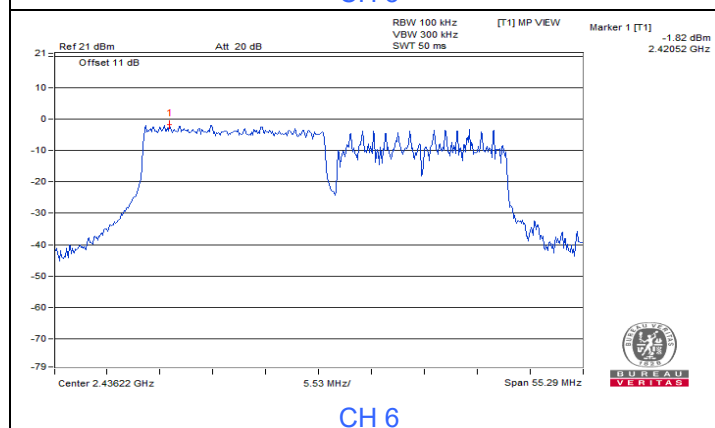
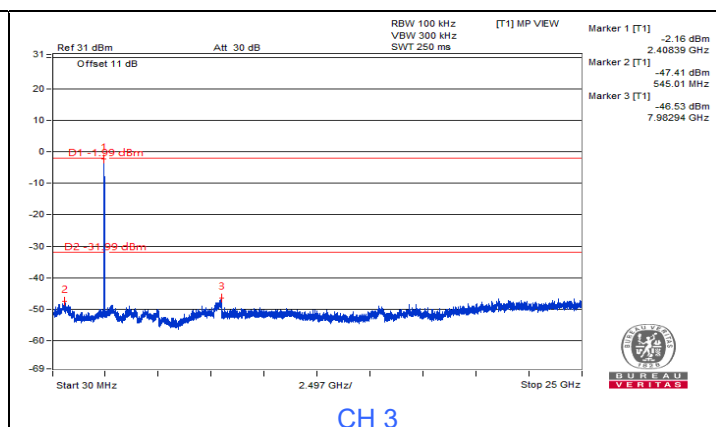
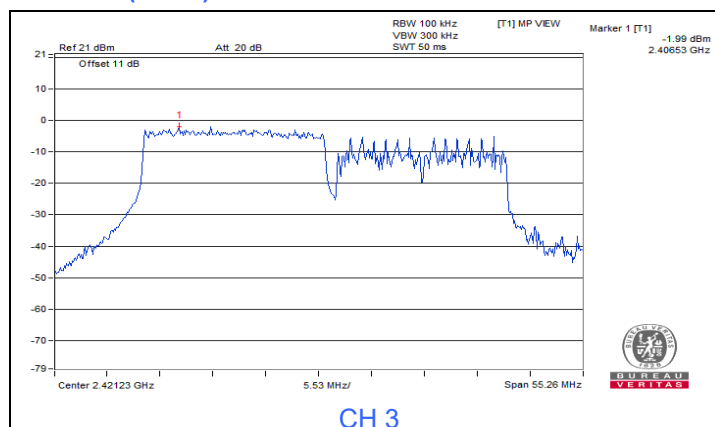
802.11ax (HE20) 52-tone RU



802.11ax (HE20) 106-tone RU



802.11ax (HE40) 242-tone RU



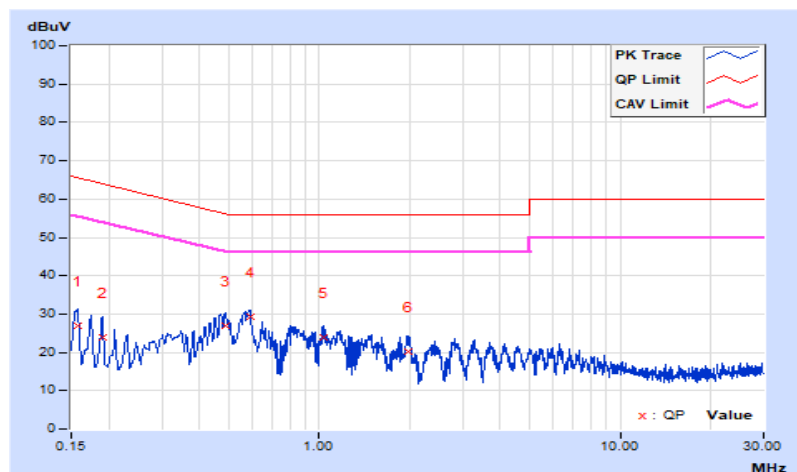
7.5 AC Power Conducted Emissions

RF Mode	802.11ax (HE20) Full RU	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Rex Wang		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15800	10.29	16.65	1.25	26.94	11.54	65.57	55.57	-38.63	-44.03
2	0.19000	10.32	13.68	0.55	24.00	10.87	64.04	54.04	-40.04	-43.17
3	0.48600	10.37	16.63	7.65	27.00	18.02	56.24	46.24	-29.24	-28.22
4	0.58874	10.38	18.88	9.04	29.26	19.42	56.00	46.00	-26.74	-26.58
5	1.03400	10.43	13.50	4.20	23.93	14.63	56.00	46.00	-32.07	-31.37
6	1.97400	10.51	9.54	0.63	20.05	11.14	56.00	46.00	-35.95	-34.86

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

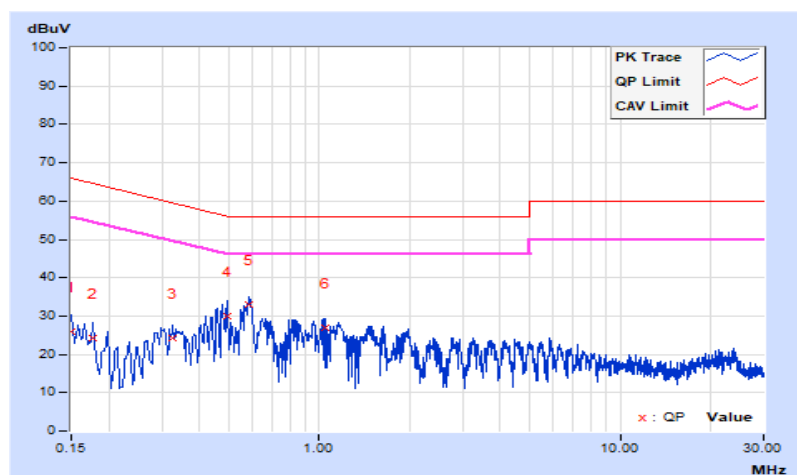


RF Mode	802.11ax (HE20) Full RU	Channel	CH 6 : 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Rex Wang		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.34	15.70	1.44	26.04	11.78	66.00	56.00	-39.96	-44.22
2	0.17800	10.35	13.94	0.76	24.29	11.11	64.58	54.58	-40.29	-43.47
3	0.32600	10.38	13.84	1.86	24.22	12.24	59.55	49.55	-35.33	-37.31
4	0.49400	10.40	19.40	7.28	29.80	17.68	56.10	46.10	-26.30	-28.42
5	0.58565	10.41	22.64	10.21	33.05	20.62	56.00	46.00	-22.95	-25.38
6	1.04200	10.47	16.40	4.59	26.87	15.06	56.00	46.00	-29.13	-30.94

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



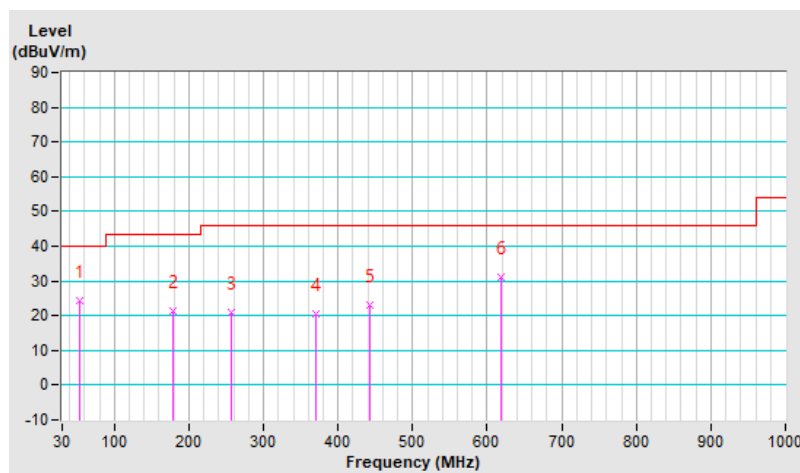
7.6 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE20) Full RU	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	54.25	24.4 QP	40.0	-15.6	1.22 H	147	37.8	-13.4
2	178.41	21.2 QP	43.5	-22.3	1.38 H	265	35.3	-14.1
3	256.01	21.1 QP	46.0	-24.9	1.94 H	157	34.9	-13.8
4	370.47	20.5 QP	46.0	-25.5	2.05 H	115	30.8	-10.3
5	443.22	23.2 QP	46.0	-22.8	2.53 H	17	31.2	-8.0
6	617.82	31.1 QP	46.0	-14.9	1.76 H	180	35.4	-4.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

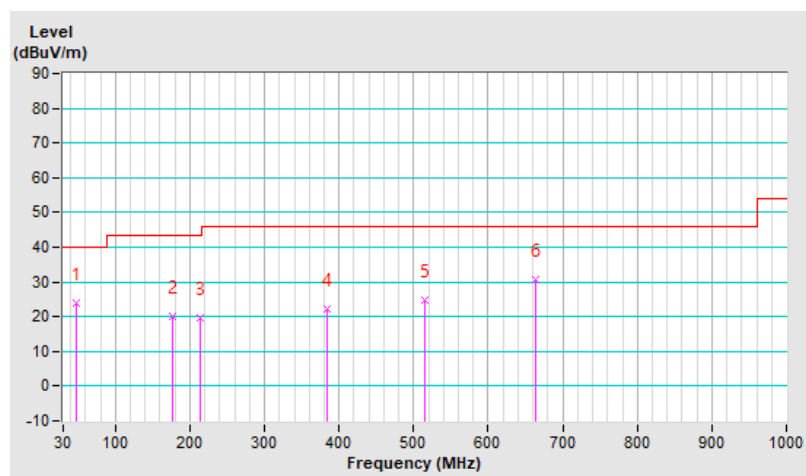


RF Mode	802.11ax (HE20) Full RU	Channel	CH 6 : 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	48.43	23.8 QP	40.0	-16.2	1.32 V	48	36.8	-13.0
2	177.44	20.1 QP	43.5	-23.4	1.43 V	175	34.1	-14.0
3	214.30	19.7 QP	43.5	-23.8	1.94 V	153	36.0	-16.3
4	384.05	22.3 QP	46.0	-23.7	2.24 V	170	32.3	-10.0
5	514.03	24.7 QP	46.0	-21.3	1.96 V	248	31.7	-7.0
6	664.38	30.7 QP	46.0	-15.3	1.23 V	57	34.4	-3.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.7 Unwanted Emissions above 1 GHz

RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 75% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	54.9 PK	74.0	-19.1	1.60 H	334	23.1	31.8
2	2390.00	39.1 AV	54.0	-14.9	1.60 H	334	7.3	31.8
3	*2412.00	100.3 PK			1.60 H	334	68.5	31.8
4	*2412.00	98.1 AV			1.60 H	334	66.3	31.8
5	4824.00	47.8 PK	74.0	-26.2	1.58 H	346	44.8	3.0
6	4824.00	37.3 AV	54.0	-16.7	1.58 H	346	34.3	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	54.8 PK	74.0	-19.2	2.61 V	120	23.0	31.8
2	2390.00	37.8 AV	54.0	-16.2	2.61 V	120	6.0	31.8
3	*2412.00	99.0 PK			2.61 V	120	67.2	31.8
4	*2412.00	96.7 AV			2.61 V	120	64.9	31.8
5	4824.00	47.6 PK	74.0	-26.4	2.22 V	104	44.6	3.0
6	4824.00	37.2 AV	54.0	-16.8	2.22 V	104	34.2	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 75% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	99.5 PK			1.58 H	355	67.7	31.8
2	*2437.00	97.0 AV			1.58 H	355	65.2	31.8
3	4874.00	47.6 PK	74.0	-26.4	1.55 H	346	44.6	3.0
4	4874.00	37.2 AV	54.0	-16.8	1.55 H	346	34.2	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	97.4 PK			2.59 V	112	65.6	31.8
2	*2437.00	95.2 AV			2.59 V	112	63.4	31.8
3	4874.00	47.4 PK	74.0	-26.6	2.24 V	105	44.4	3.0
4	4874.00	37.0 AV	54.0	-17.0	2.24 V	105	34.0	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 75% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	100.2 PK			1.67 H	349	68.3	31.9
2	*2462.00	98.2 AV			1.67 H	349	66.3	31.9
3	2483.50	55.5 PK	74.0	-18.5	1.67 H	349	23.6	31.9
4	2483.50	38.8 AV	54.0	-15.2	1.67 H	349	6.9	31.9
5	4924.00	47.6 PK	74.0	-26.4	1.55 H	347	44.6	3.0
6	4924.00	37.3 AV	54.0	-16.7	1.55 H	347	34.3	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	97.7 PK			2.56 V	117	65.8	31.9
2	*2462.00	95.3 AV			2.56 V	117	63.4	31.9
3	2483.50	55.3 PK	74.0	-18.7	2.56 V	117	23.4	31.9
4	2483.50	38.2 AV	54.0	-15.8	2.56 V	117	6.3	31.9
5	4924.00	47.5 PK	74.0	-26.5	2.23 V	101	44.5	3.0
6	4924.00	37.0 AV	54.0	-17.0	2.23 V	101	34.0	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 75% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.6 PK	74.0	-18.4	1.57 H	333	23.8	31.8
2	2390.00	39.2 AV	54.0	-14.8	1.57 H	333	7.4	31.8
3	*2412.00	105.1 PK			1.57 H	333	73.3	31.8
4	*2412.00	96.6 AV			1.57 H	333	64.8	31.8
5	4824.00	47.7 PK	74.0	-26.3	1.64 H	345	44.7	3.0
6	4824.00	37.2 AV	54.0	-16.8	1.64 H	345	34.2	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.1 PK	74.0	-18.9	2.65 V	114	23.3	31.8
2	2390.00	37.2 AV	54.0	-16.8	2.65 V	114	5.4	31.8
3	*2412.00	103.3 PK			2.65 V	114	71.5	31.8
4	*2412.00	94.9 AV			2.65 V	114	63.1	31.8
5	4824.00	47.3 PK	74.0	-26.7	2.26 V	103	44.3	3.0
6	4824.00	37.1 AV	54.0	-16.9	2.26 V	103	34.1	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 75% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	102.9 PK			1.55 H	337	71.1	31.8
2	*2437.00	94.7 AV			1.55 H	337	62.9	31.8
3	4874.00	47.6 PK	74.0	-26.4	1.66 H	348	44.6	3.0
4	4874.00	37.3 AV	54.0	-16.7	1.66 H	348	34.3	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	100.8 PK			2.68 V	117	69.0	31.8
2	*2437.00	92.6 AV			2.68 V	117	60.8	31.8
3	4874.00	47.3 PK	74.0	-26.7	2.24 V	105	44.3	3.0
4	4874.00	37.2 AV	54.0	-16.8	2.24 V	105	34.2	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 75% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	103.7 PK			1.52 H	337	71.8	31.9
2	*2462.00	95.5 AV			1.52 H	337	63.6	31.9
3	2483.50	56.0 PK	74.0	-18.0	1.52 H	337	24.1	31.9
4	2483.50	40.6 AV	54.0	-13.4	1.52 H	337	8.7	31.9
5	4924.00	47.7 PK	74.0	-26.3	1.66 H	345	44.7	3.0
6	4924.00	37.3 AV	54.0	-16.7	1.66 H	345	34.3	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	101.3 PK			2.63 V	112	69.4	31.9
2	*2462.00	93.0 AV			2.63 V	112	61.1	31.9
3	2483.50	55.7 PK	74.0	-18.3	2.63 V	112	23.8	31.9
4	2483.50	38.2 AV	54.0	-15.8	2.63 V	112	6.3	31.9
5	4924.00	47.5 PK	74.0	-26.5	2.25 V	110	44.5	3.0
6	4924.00	37.2 AV	54.0	-16.8	2.25 V	110	34.2	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) Full RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 75% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.8 PK	74.0	-18.2	1.59 H	335	24.0	31.8
2	2390.00	41.1 AV	54.0	-12.9	1.59 H	335	9.3	31.8
3	*2412.00	106.8 PK			1.59 H	335	75.0	31.8
4	*2412.00	95.5 AV			1.59 H	335	63.7	31.8
5	4824.00	47.7 PK	74.0	-26.3	1.62 H	348	44.7	3.0
6	4824.00	37.2 AV	54.0	-16.8	1.62 H	348	34.2	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	54.7 PK	74.0	-19.3	2.60 V	117	22.9	31.8
2	2390.00	40.0 AV	54.0	-14.0	2.60 V	117	8.2	31.8
3	*2412.00	106.2 PK			2.60 V	117	74.4	31.8
4	*2412.00	94.3 AV			2.60 V	117	62.5	31.8
5	4824.00	47.5 PK	74.0	-26.5	2.24 V	102	44.5	3.0
6	4824.00	37.0 AV	54.0	-17.0	2.24 V	102	34.0	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) Full RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 75% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	105.9 PK			1.47 H	351	74.1	31.8
2	*2437.00	94.4 AV			1.47 H	351	62.6	31.8
3	4874.00	47.3 PK	74.0	-26.7	1.65 H	344	44.3	3.0
4	4874.00	37.0 AV	54.0	-17.0	1.65 H	344	34.0	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	103.6 PK			2.68 V	118	71.8	31.8
2	*2437.00	92.8 AV			2.68 V	118	61.0	31.8
3	4874.00	47.1 PK	74.0	-26.9	2.23 V	101	44.1	3.0
4	4874.00	36.8 AV	54.0	-17.2	2.23 V	101	33.8	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) Full RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 75% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	107.2 PK			1.60 H	353	75.3	31.9
2	*2462.00	95.2 AV			1.60 H	353	63.3	31.9
3	2483.50	56.8 PK	74.0	-17.2	1.60 H	353	24.9	31.9
4	2483.50	42.6 AV	54.0	-11.4	1.60 H	353	10.7	31.9
5	4924.00	47.5 PK	74.0	-26.5	1.68 H	345	44.5	3.0
6	4924.00	37.2 AV	54.0	-16.8	1.68 H	345	34.2	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	104.1 PK			2.59 V	116	72.2	31.9
2	*2462.00	92.4 AV			2.59 V	116	60.5	31.9
3	2483.50	55.7 PK	74.0	-18.3	2.59 V	116	23.8	31.9
4	2483.50	38.9 AV	54.0	-15.1	2.59 V	116	7.0	31.9
5	4924.00	47.3 PK	74.0	-26.7	2.24 V	105	44.3	3.0
6	4924.00	37.1 AV	54.0	-16.9	2.24 V	105	34.1	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) Full RU	Channel	CH 3 : 2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 75% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.2 PK	74.0	-15.8	1.56 H	335	26.4	31.8
2	2390.00	44.0 AV	54.0	-10.0	1.56 H	335	12.2	31.8
3	*2422.00	103.5 PK			1.56 H	335	71.7	31.8
4	*2422.00	92.3 AV			1.56 H	335	60.5	31.8
5	4844.00	47.5 PK	74.0	-26.5	1.60 H	348	44.6	2.9
6	4844.00	37.2 AV	54.0	-16.8	1.60 H	348	34.3	2.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	54.4 PK	74.0	-19.6	2.67 V	116	22.6	31.8
2	2390.00	42.8 AV	54.0	-11.2	2.67 V	116	11.0	31.8
3	*2422.00	102.5 PK			2.67 V	116	70.7	31.8
4	*2422.00	91.5 AV			2.67 V	116	59.7	31.8
5	4844.00	47.3 PK	74.0	-26.7	2.25 V	104	44.4	2.9
6	4844.00	37.1 AV	54.0	-16.9	2.25 V	104	34.2	2.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) Full RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 75% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	102.9 PK			1.69 H	353	71.1	31.8
2	*2437.00	91.4 AV			1.69 H	353	59.6	31.8
3	4874.00	47.6 PK	74.0	-26.4	1.63 H	346	44.6	3.0
4	4874.00	37.2 AV	54.0	-16.8	1.63 H	346	34.2	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	100.1 PK			2.55 V	116	68.3	31.8
2	*2437.00	89.5 AV			2.55 V	116	57.7	31.8
3	4874.00	47.4 PK	74.0	-26.6	2.23 V	102	44.4	3.0
4	4874.00	37.0 AV	54.0	-17.0	2.23 V	102	34.0	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) Full RU	Channel	CH 9 : 2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 75% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	103.8 PK			1.51 H	353	71.9	31.9
2	*2452.00	93.0 AV			1.51 H	353	61.1	31.9
3	2483.50	57.3 PK	74.0	-16.7	1.51 H	353	25.4	31.9
4	2483.50	41.8 AV	54.0	-12.2	1.51 H	353	9.9	31.9
5	4904.00	47.6 PK	74.0	-26.4	1.68 H	345	44.6	3.0
6	4904.00	37.3 AV	54.0	-16.7	1.68 H	345	34.3	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	100.5 PK			2.61 V	116	68.6	31.9
2	*2452.00	90.4 AV			2.61 V	116	58.5	31.9
3	2483.50	55.6 PK	74.0	-18.4	2.61 V	116	23.7	31.9
4	2483.50	38.8 AV	54.0	-15.2	2.61 V	116	6.9	31.9
5	4904.00	47.3 PK	74.0	-26.7	2.23 V	100	44.3	3.0
6	4904.00	37.2 AV	54.0	-16.8	2.23 V	100	34.2	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.1 PK	74.0	-18.9	2.05 H	169	23.3	31.8
2	2390.00	35.9 AV	54.0	-18.1	2.05 H	169	4.1	31.8
3	*2412.00	102.1 PK			2.05 H	169	70.3	31.8
4	*2412.00	92.4 AV			2.05 H	169	60.6	31.8
5	4824.00	47.5 PK	74.0	-26.5	1.94 H	122	44.5	3.0
6	4824.00	37.0 AV	54.0	-17.0	1.94 H	122	34.0	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.5 PK	74.0	-18.5	1.21 V	213	23.7	31.8
2	2390.00	39.3 AV	54.0	-14.7	1.21 V	213	7.5	31.8
3	*2412.00	101.7 PK			1.21 V	213	69.9	31.8
4	*2412.00	91.8 AV			1.21 V	213	60.0	31.8
5	4824.00	47.9 PK	74.0	-26.1	1.63 V	184	44.9	3.0
6	4824.00	37.4 AV	54.0	-16.6	1.63 V	184	34.4	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	102.4 PK			2.08 H	172	70.6	31.8
2	*2437.00	92.7 AV			2.08 H	172	60.9	31.8
3	4874.00	47.7 PK	74.0	-26.3	1.87 H	119	44.7	3.0
4	4874.00	37.2 AV	54.0	-16.8	1.87 H	119	34.2	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	102.0 PK			1.14 V	216	70.2	31.8
2	*2437.00	92.1 AV			1.14 V	216	60.3	31.8
3	4874.00	48.0 PK	74.0	-26.0	1.63 V	182	45.0	3.0
4	4874.00	37.4 AV	54.0	-16.6	1.63 V	182	34.4	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 26-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	102.9 PK			1.73 H	164	71.0	31.9
2	*2462.00	92.5 AV			1.73 H	164	60.6	31.9
3	2483.50	56.2 PK	74.0	-17.8	1.73 H	164	24.3	31.9
4	2483.50	40.2 AV	54.0	-13.8	1.73 H	164	8.3	31.9
5	4924.00	47.3 PK	74.0	-26.7	1.74 H	122	44.3	3.0
6	4924.00	36.8 AV	54.0	-17.2	1.74 H	122	33.8	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	102.3 PK			1.15 V	207	70.4	31.9
2	*2462.00	92.0 AV			1.15 V	207	60.1	31.9
3	2483.50	55.8 PK	74.0	-18.2	1.15 V	207	23.9	31.9
4	2483.50	42.5 AV	54.0	-11.5	1.15 V	207	10.6	31.9
5	4924.00	47.7 PK	74.0	-26.3	1.66 V	183	44.7	3.0
6	4924.00	37.3 AV	54.0	-16.7	1.66 V	183	34.3	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.9 PK	74.0	-18.1	2.05 H	169	24.1	31.8
2	2390.00	39.7 AV	54.0	-14.3	2.05 H	169	7.9	31.8
3	*2412.00	102.8 PK			2.05 H	169	71.0	31.8
4	*2412.00	92.0 AV			2.05 H	169	60.2	31.8
5	4824.00	47.6 PK	74.0	-26.4	1.94 H	122	44.6	3.0
6	4824.00	37.0 AV	54.0	-17.0	1.94 H	122	34.0	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.3 PK	74.0	-17.7	1.21 V	213	24.5	31.8
2	2390.00	39.3 AV	54.0	-14.7	1.21 V	213	7.5	31.8
3	*2412.00	102.2 PK			1.21 V	213	70.4	31.8
4	*2412.00	91.6 AV			1.21 V	213	59.8	31.8
5	4824.00	47.5 PK	74.0	-26.5	1.63 V	184	44.5	3.0
6	4824.00	37.0 AV	54.0	-17.0	1.63 V	184	34.0	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	103.1 PK			2.08 H	172	71.3	31.8
2	*2437.00	92.3 AV			2.08 H	172	60.5	31.8
3	4874.00	47.7 PK	74.0	-26.3	1.87 H	119	44.7	3.0
4	4874.00	37.1 AV	54.0	-16.9	1.87 H	119	34.1	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	102.4 PK			1.14 V	216	70.6	31.8
2	*2437.00	91.9 AV			1.14 V	216	60.1	31.8
3	4874.00	47.4 PK	74.0	-26.6	1.63 V	182	44.4	3.0
4	4874.00	37.0 AV	54.0	-17.0	1.63 V	182	34.0	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 52-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	103.1 PK			1.73 H	164	71.2	31.9
2	*2462.00	92.6 AV			1.73 H	164	60.7	31.9
3	2483.50	56.2 PK	74.0	-17.8	1.73 H	164	24.3	31.9
4	2483.50	39.8 AV	54.0	-14.2	1.73 H	164	7.9	31.9
5	4924.00	48.1 PK	74.0	-25.9	1.74 H	122	45.1	3.0
6	4924.00	37.6 AV	54.0	-16.4	1.74 H	122	34.6	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	102.6 PK			1.15 V	207	70.7	31.9
2	*2462.00	92.1 AV			1.15 V	207	60.2	31.9
3	2483.50	55.0 PK	74.0	-19.0	1.15 V	207	23.1	31.9
4	2483.50	40.7 AV	54.0	-13.3	1.15 V	207	8.8	31.9
5	4924.00	47.2 PK	74.0	-26.8	1.66 V	183	44.2	3.0
6	4924.00	36.9 AV	54.0	-17.1	1.66 V	183	33.9	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.4 PK	74.0	-18.6	2.05 H	169	23.6	31.8
2	2390.00	39.7 AV	54.0	-14.3	2.05 H	169	7.9	31.8
3	*2412.00	103.4 PK			2.05 H	169	71.6	31.8
4	*2412.00	92.2 AV			2.05 H	169	60.4	31.8
5	4824.00	47.6 PK	74.0	-26.4	1.94 H	122	44.6	3.0
6	4824.00	37.2 AV	54.0	-16.8	1.94 H	122	34.2	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.3 PK	74.0	-18.7	1.21 V	213	23.5	31.8
2	2390.00	39.6 AV	54.0	-14.4	1.21 V	213	7.8	31.8
3	*2412.00	103.0 PK			1.21 V	213	71.2	31.8
4	*2412.00	91.7 AV			1.21 V	213	59.9	31.8
5	4824.00	47.3 PK	74.0	-26.7	1.63 V	184	44.3	3.0
6	4824.00	36.8 AV	54.0	-17.2	1.63 V	184	33.8	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	103.7 PK			2.08 H	172	71.9	31.8
2	*2437.00	92.5 AV			2.08 H	172	60.7	31.8
3	4874.00	47.8 PK	74.0	-26.2	1.87 H	119	44.8	3.0
4	4874.00	37.4 AV	54.0	-16.6	1.87 H	119	34.4	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	103.3 PK			1.14 V	216	71.5	31.8
2	*2437.00	92.1 AV			1.14 V	216	60.3	31.8
3	4874.00	47.2 PK	74.0	-26.8	1.63 V	182	44.2	3.0
4	4874.00	36.6 AV	54.0	-17.4	1.63 V	182	33.6	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE20) 106-tone RU	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	104.0 PK			1.73 H	164	72.1	31.9
2	*2462.00	93.1 AV			1.73 H	164	61.2	31.9
3	2483.50	55.8 PK	74.0	-18.2	1.73 H	164	23.9	31.9
4	2483.50	39.8 AV	54.0	-14.2	1.73 H	164	7.9	31.9
5	4924.00	48.2 PK	74.0	-25.8	1.74 H	122	45.2	3.0
6	4924.00	37.8 AV	54.0	-16.2	1.74 H	122	34.8	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	103.7 PK			1.15 V	207	71.8	31.9
2	*2462.00	92.6 AV			1.15 V	207	60.7	31.9
3	2483.50	56.0 PK	74.0	-18.0	1.15 V	207	24.1	31.9
4	2483.50	39.7 AV	54.0	-14.3	1.15 V	207	7.8	31.9
5	4924.00	47.5 PK	74.0	-26.5	1.66 V	183	44.5	3.0
6	4924.00	37.2 AV	54.0	-16.8	1.66 V	183	34.2	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) 242-tone RU	Channel	CH 3 : 2422 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.7 PK	74.0	-17.3	2.06 H	162	24.9	31.8
2	2390.00	41.4 AV	54.0	-12.6	2.06 H	162	9.6	31.8
3	*2422.00	100.3 PK			2.06 H	162	68.5	31.8
4	*2422.00	89.1 AV			2.06 H	162	57.3	31.8
5	4844.00	47.4 PK	74.0	-26.6	1.91 H	122	44.5	2.9
6	4844.00	36.9 AV	54.0	-17.1	1.91 H	122	34.0	2.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.3 PK	74.0	-18.7	1.19 V	213	23.5	31.8
2	2390.00	40.8 AV	54.0	-13.2	1.19 V	213	9.0	31.8
3	*2422.00	99.8 PK			1.19 V	213	68.0	31.8
4	*2422.00	88.5 AV			1.19 V	213	56.7	31.8
5	4844.00	47.2 PK	74.0	-26.8	1.63 V	186	44.3	2.9
6	4844.00	36.8 AV	54.0	-17.2	1.63 V	186	33.9	2.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) 242-tone RU	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	100.6 PK			2.08 H	172	68.8	31.8
2	*2437.00	89.5 AV			2.08 H	172	57.7	31.8
3	4874.00	47.5 PK	74.0	-26.5	1.87 H	119	44.5	3.0
4	4874.00	36.9 AV	54.0	-17.1	1.87 H	119	33.9	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	100.3 PK			1.14 V	216	68.5	31.8
2	*2437.00	88.9 AV			1.14 V	216	57.1	31.8
3	4874.00	47.7 PK	74.0	-26.3	1.63 V	182	44.7	3.0
4	4874.00	37.2 AV	54.0	-16.8	1.63 V	182	34.2	3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11ax (HE40) 242-tone RU	Channel	CH 9 : 2452 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

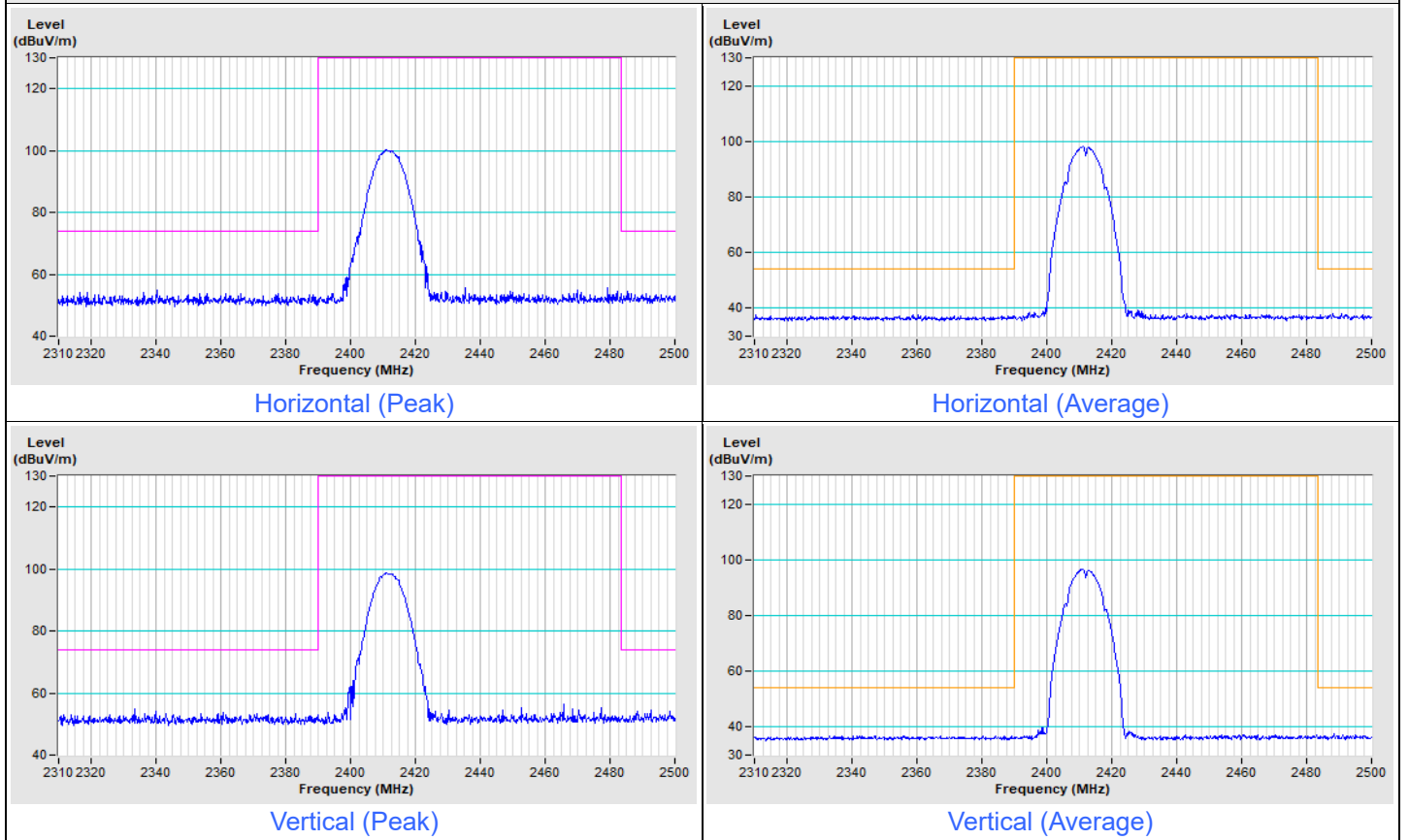
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	101.6 PK			1.57 H	161	69.7	31.9
2	*2452.00	90.2 AV			1.57 H	161	58.3	31.9
3	2483.50	63.9 PK	74.0	-10.1	1.57 H	161	32.0	31.9
4	2483.50	48.0 AV	54.0	-6.0	1.57 H	161	16.1	31.9
5	4904.00	47.8 PK	74.0	-26.2	1.72 H	116	44.8	3.0
6	4904.00	37.2 AV	54.0	-16.8	1.72 H	116	34.2	3.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	101.3 PK			1.15 V	205	69.4	31.9
2	*2452.00	89.7 AV			1.15 V	205	57.8	31.9
3	2483.50	53.5 PK	74.0	-20.5	1.15 V	205	21.6	31.9
4	2483.50	47.8 AV	54.0	-6.2	1.15 V	205	15.9	31.9
5	4904.00	47.2 PK	74.0	-26.8	1.66 V	184	44.2	3.0
6	4904.00	36.6 AV	54.0	-17.4	1.66 V	184	33.6	3.0

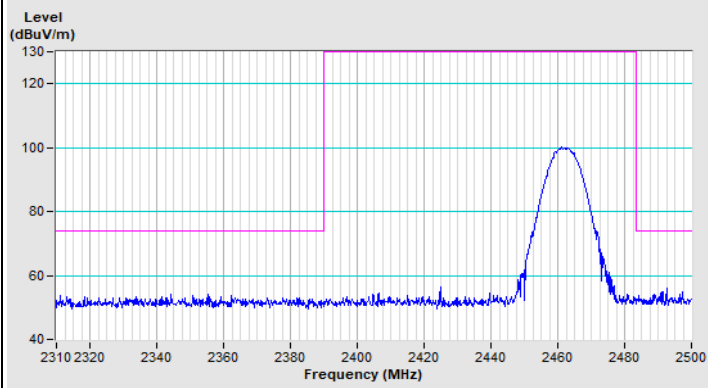
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

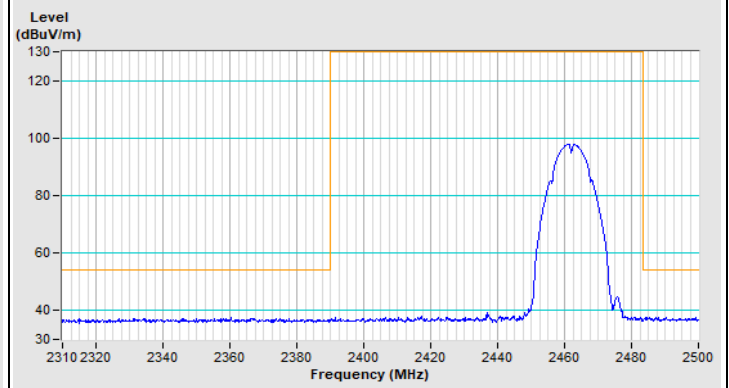
Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11b Channel 1

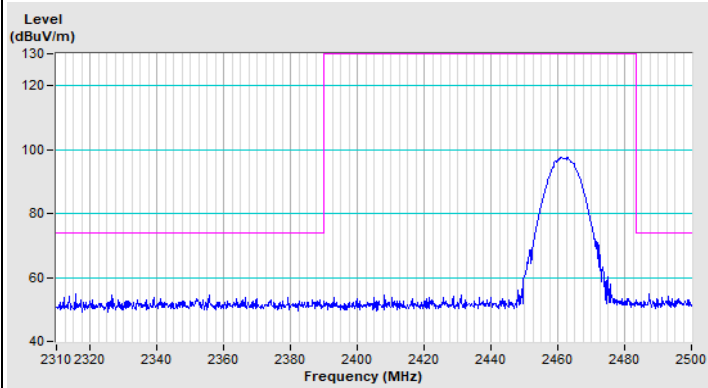


802.11b Channel 11

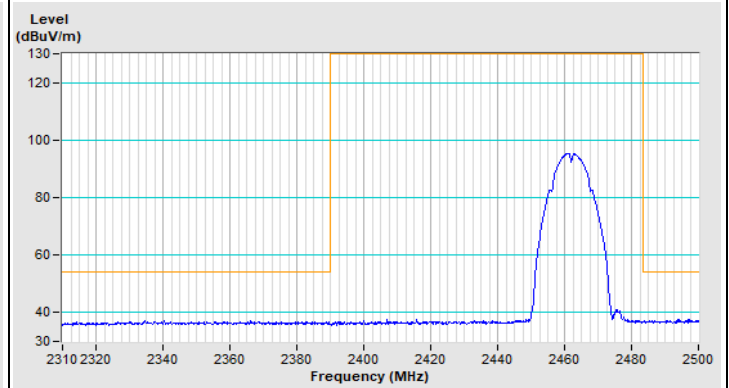
Horizontal (Peak)



Horizontal (Average)



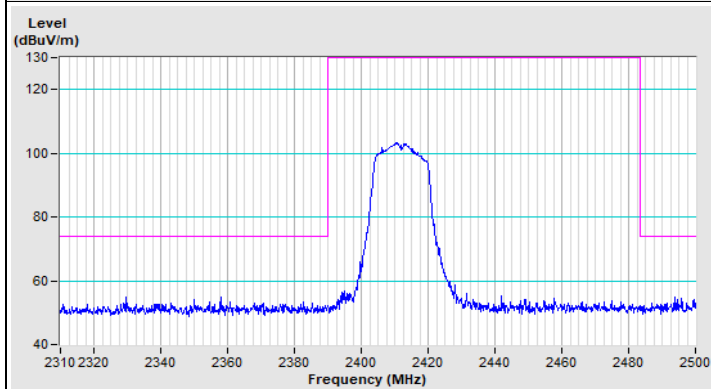
Vertical (Peak)



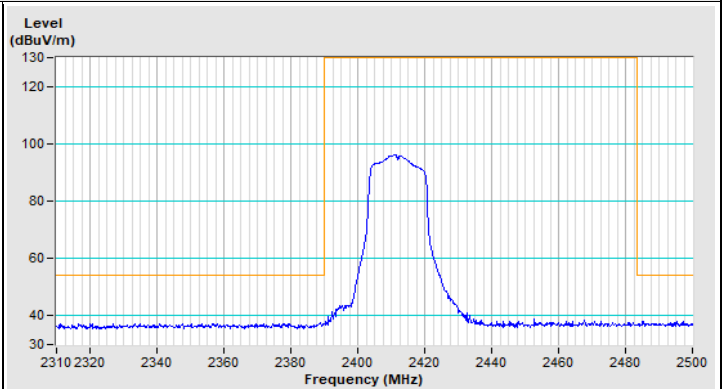
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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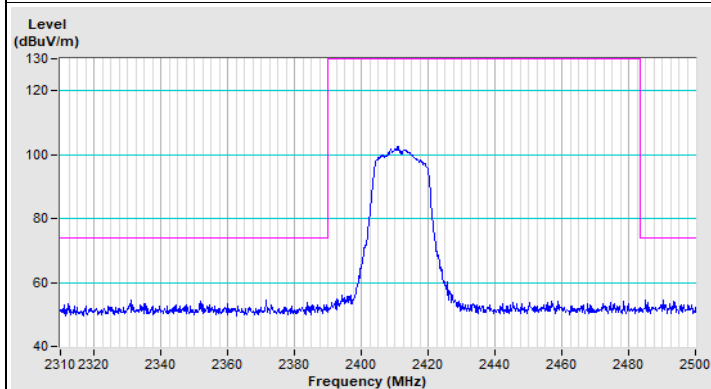
802.11g Channel 1



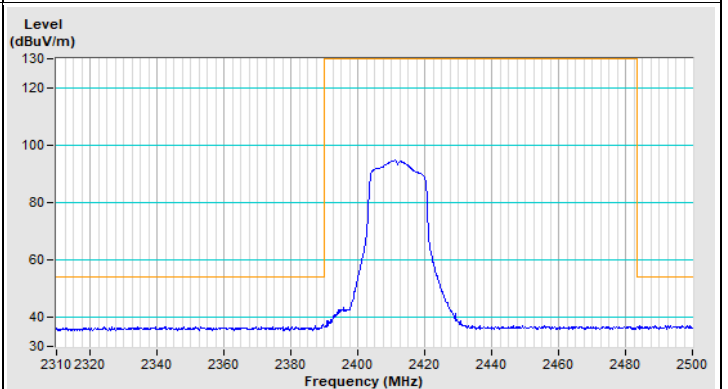
Horizontal (Peak)



Horizontal (Average)

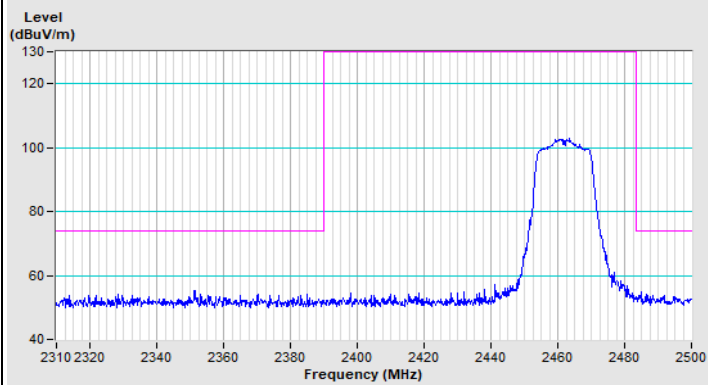


Vertical (Peak)

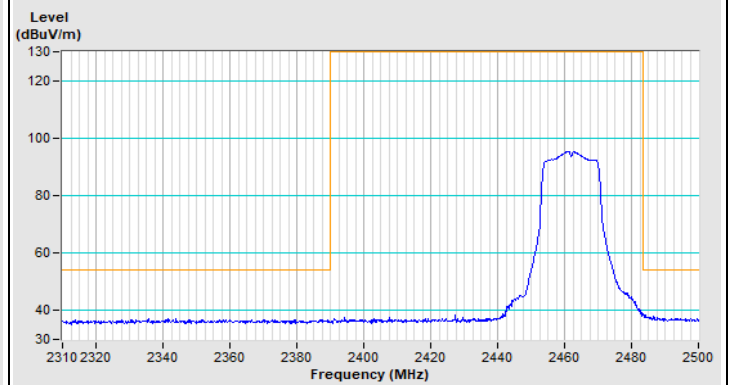


Vertical (Average)

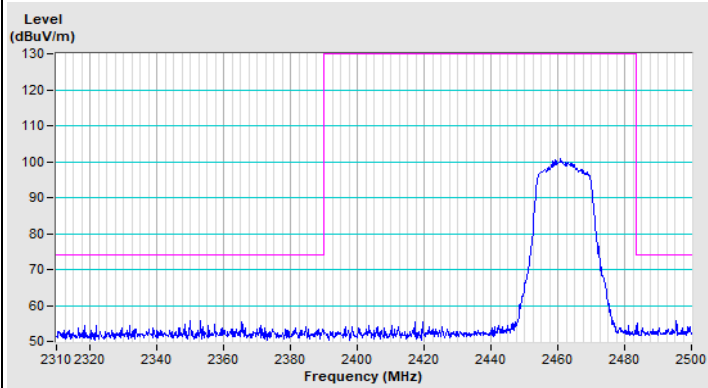
802.11g Channel 11



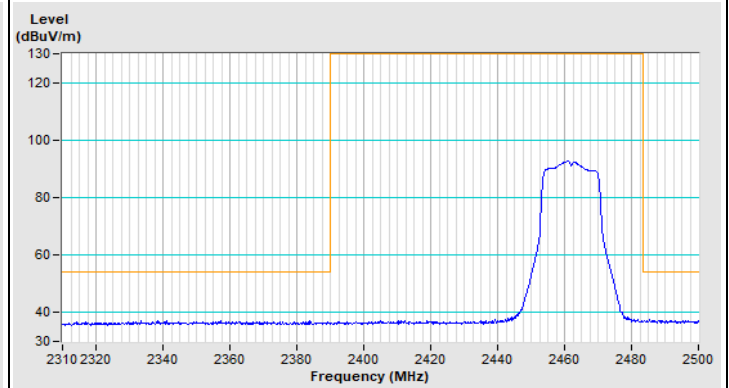
Horizontal (Peak)



Horizontal (Average)



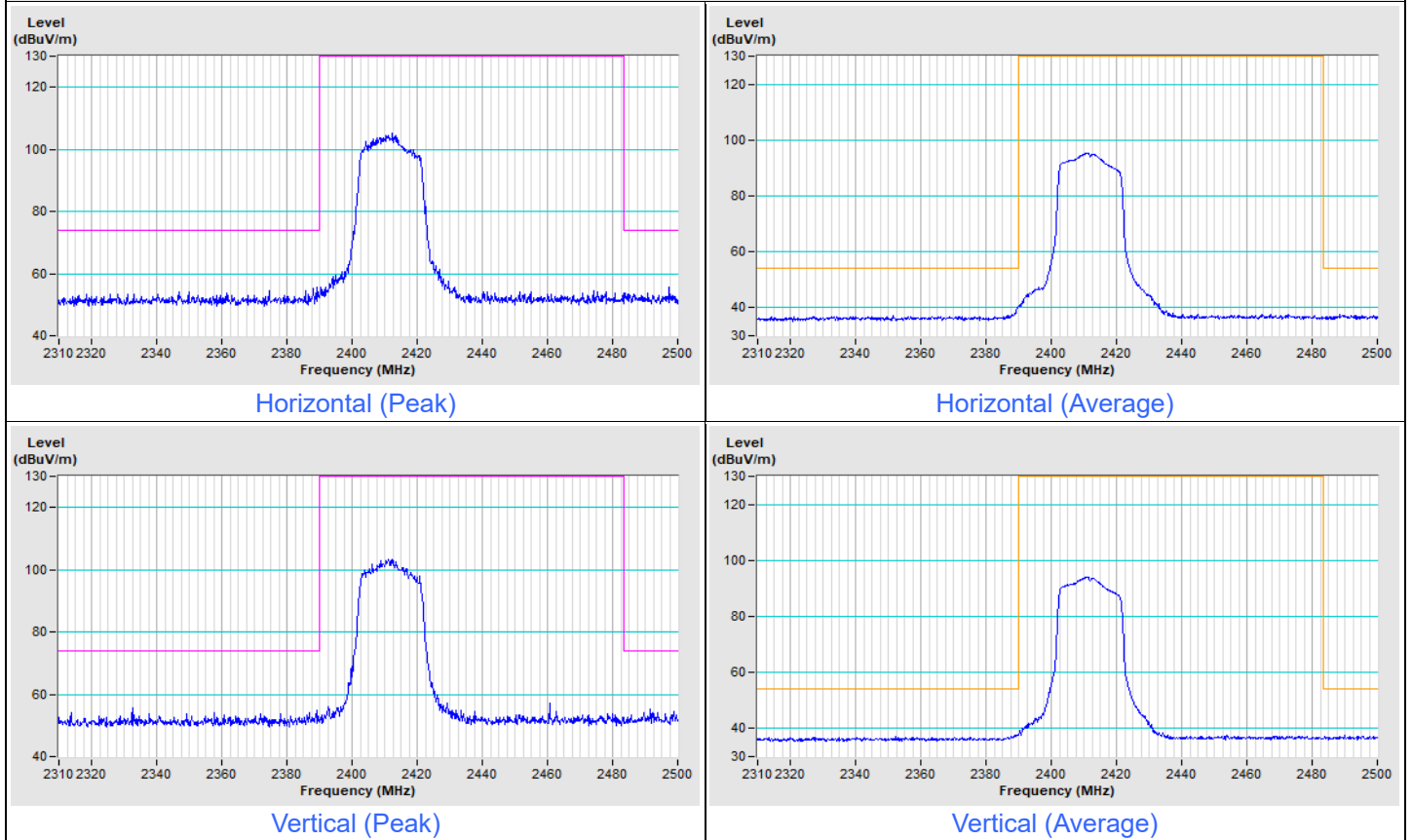
Vertical (Peak)



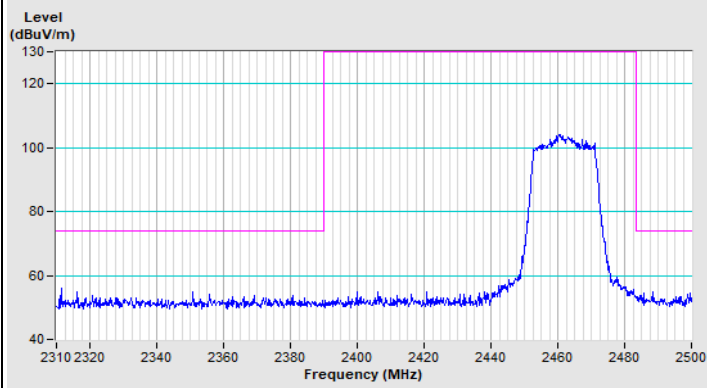
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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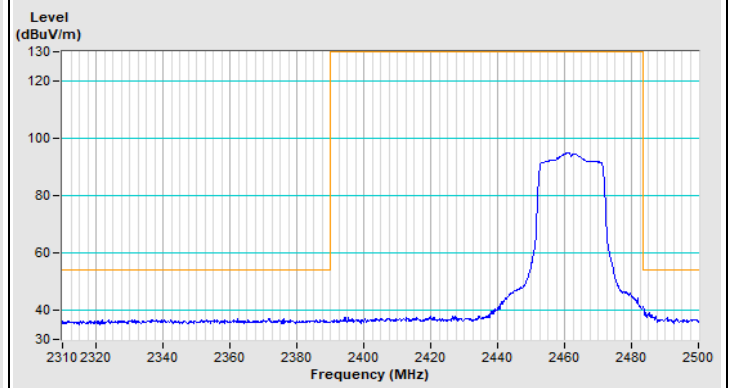
802.11ax (HE20) Full RU Channel 1



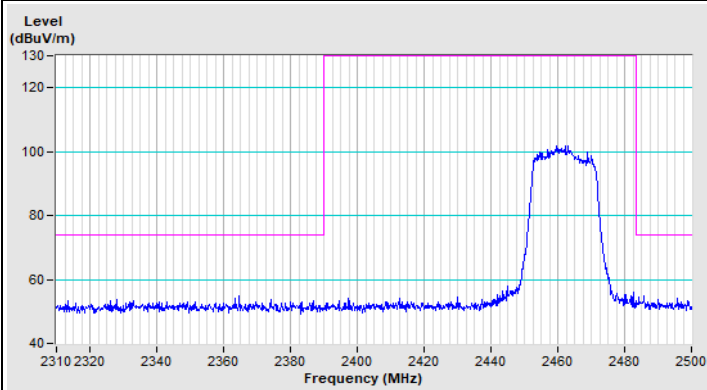
802.11ax (HE20) Full RU Channel 11



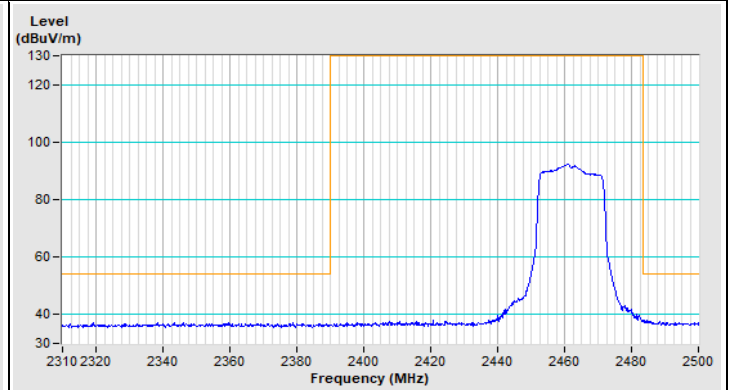
Horizontal (Peak)



Horizontal (Average)



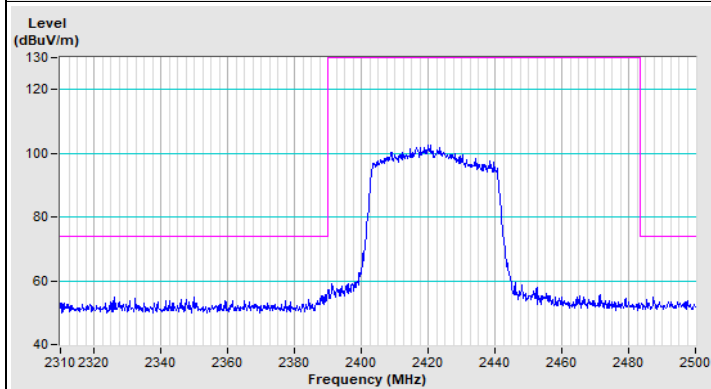
Vertical (Peak)



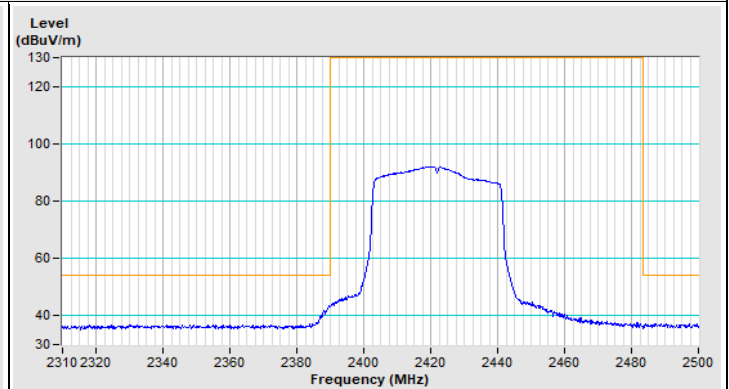
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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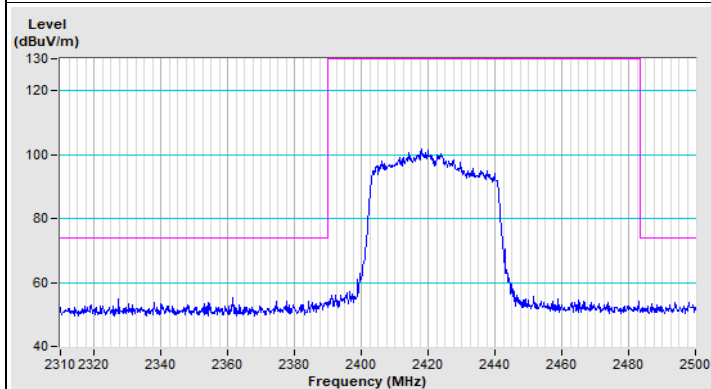
802.11ax (HE40) Full RU Channel 3



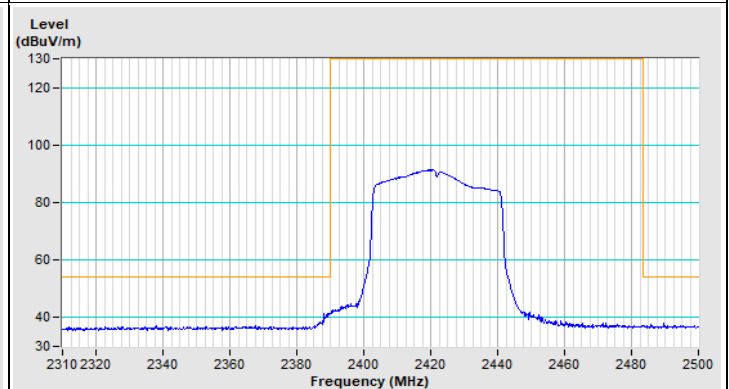
Horizontal (Peak)



Horizontal (Average)

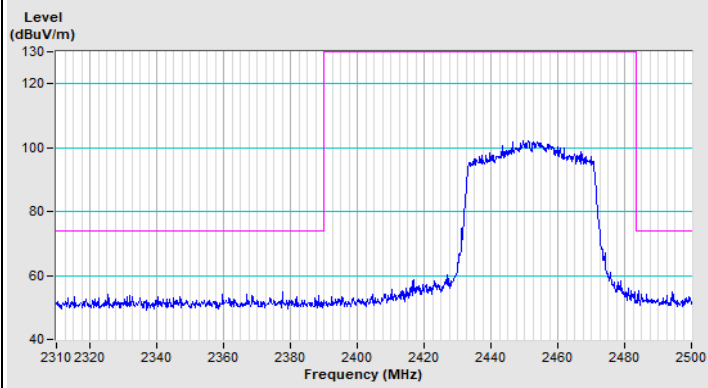


Vertical (Peak)

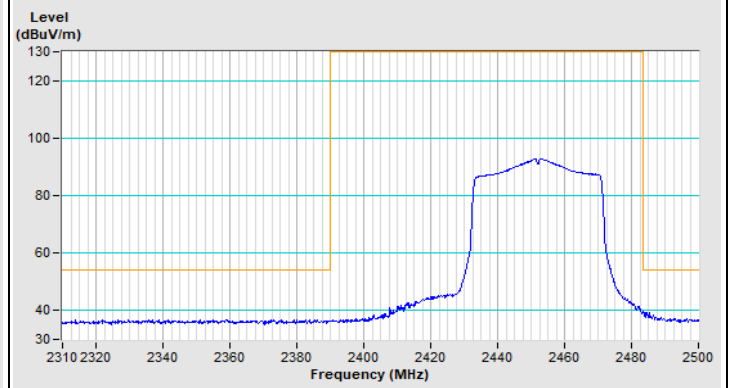


Vertical (Average)

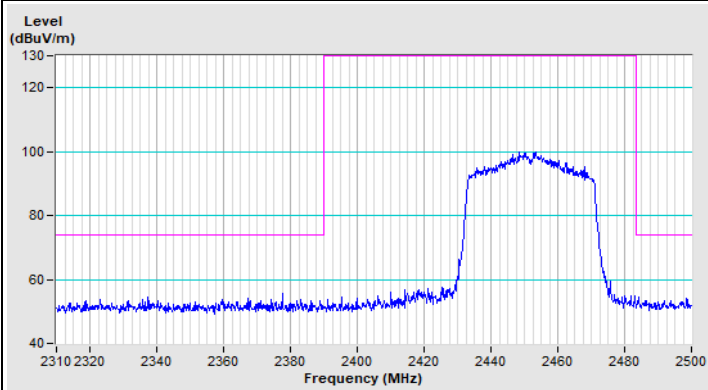
802.11ax (HE40) Full RU Channel 9



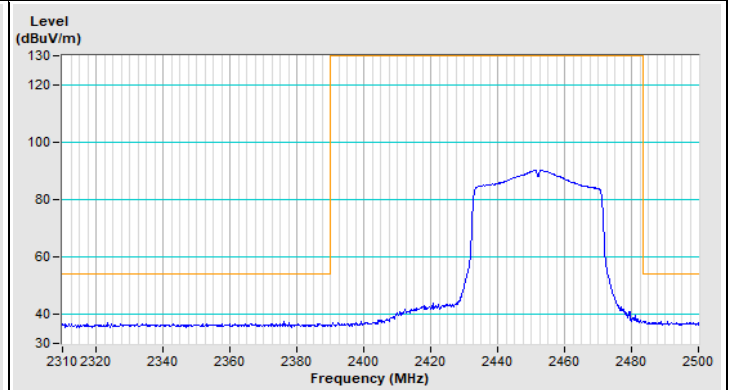
Horizontal (Peak)



Horizontal (Average)



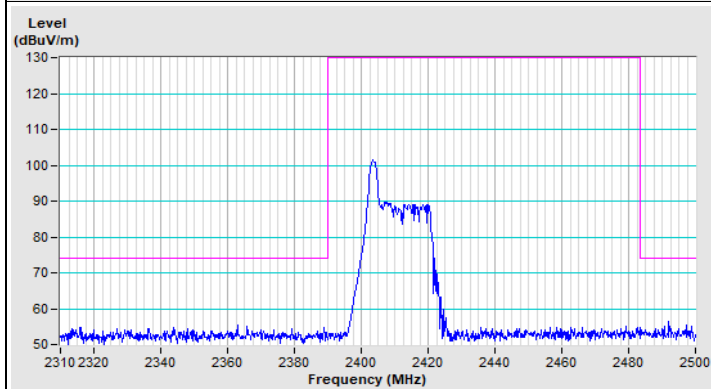
Vertical (Peak)



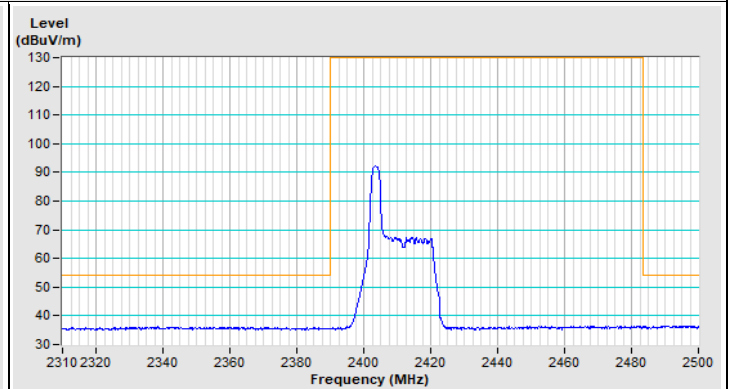
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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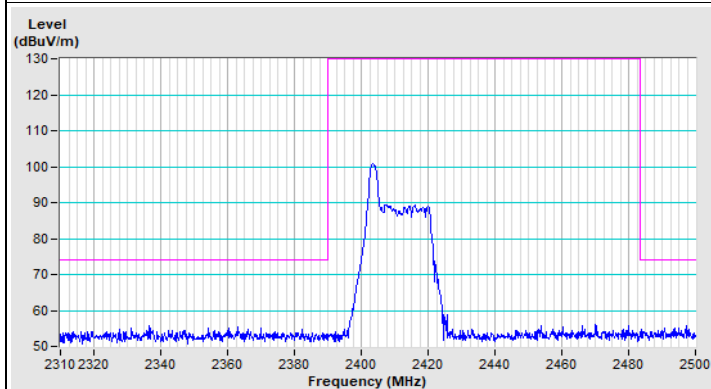
802.11ax (HE20) 26-tone RU Channel 1



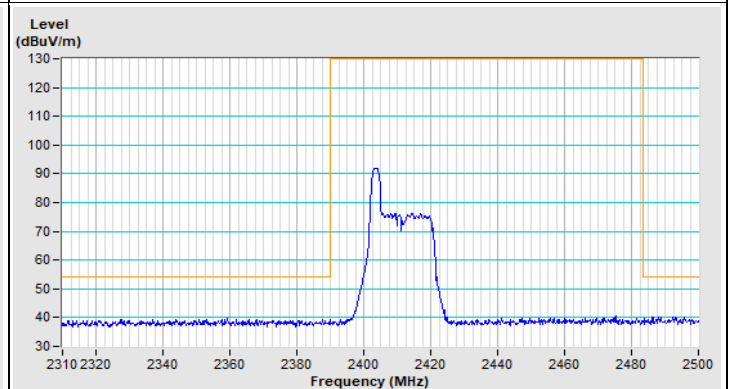
Horizontal (Peak)



Horizontal (Average)

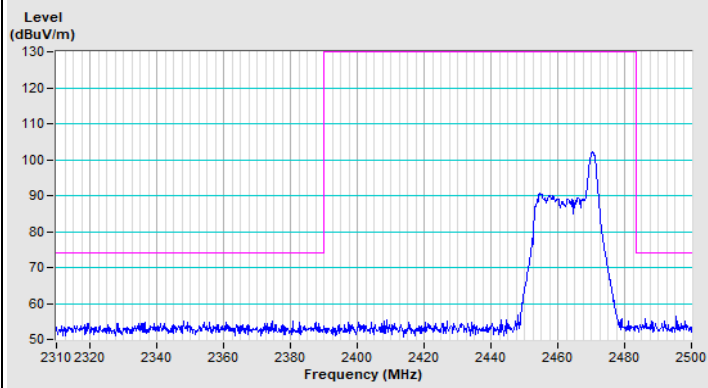


Vertical (Peak)

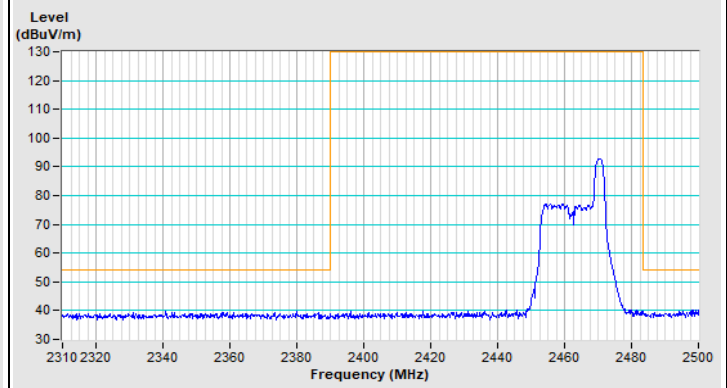


Vertical (Average)

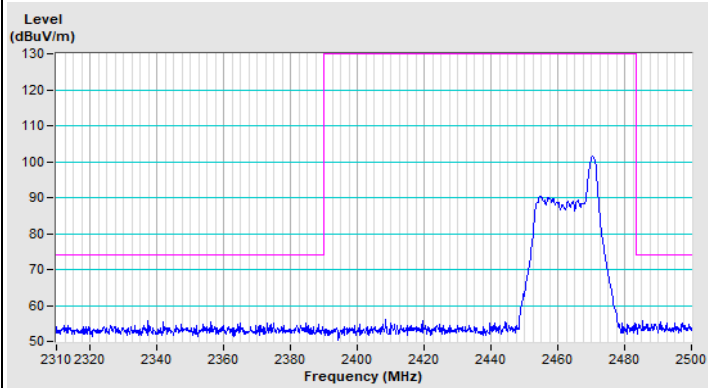
802.11ax (HE20) 26-tone RU Channel 11



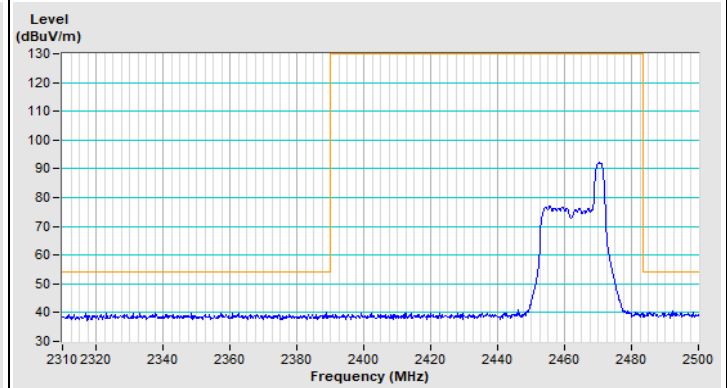
Horizontal (Peak)



Horizontal (Average)



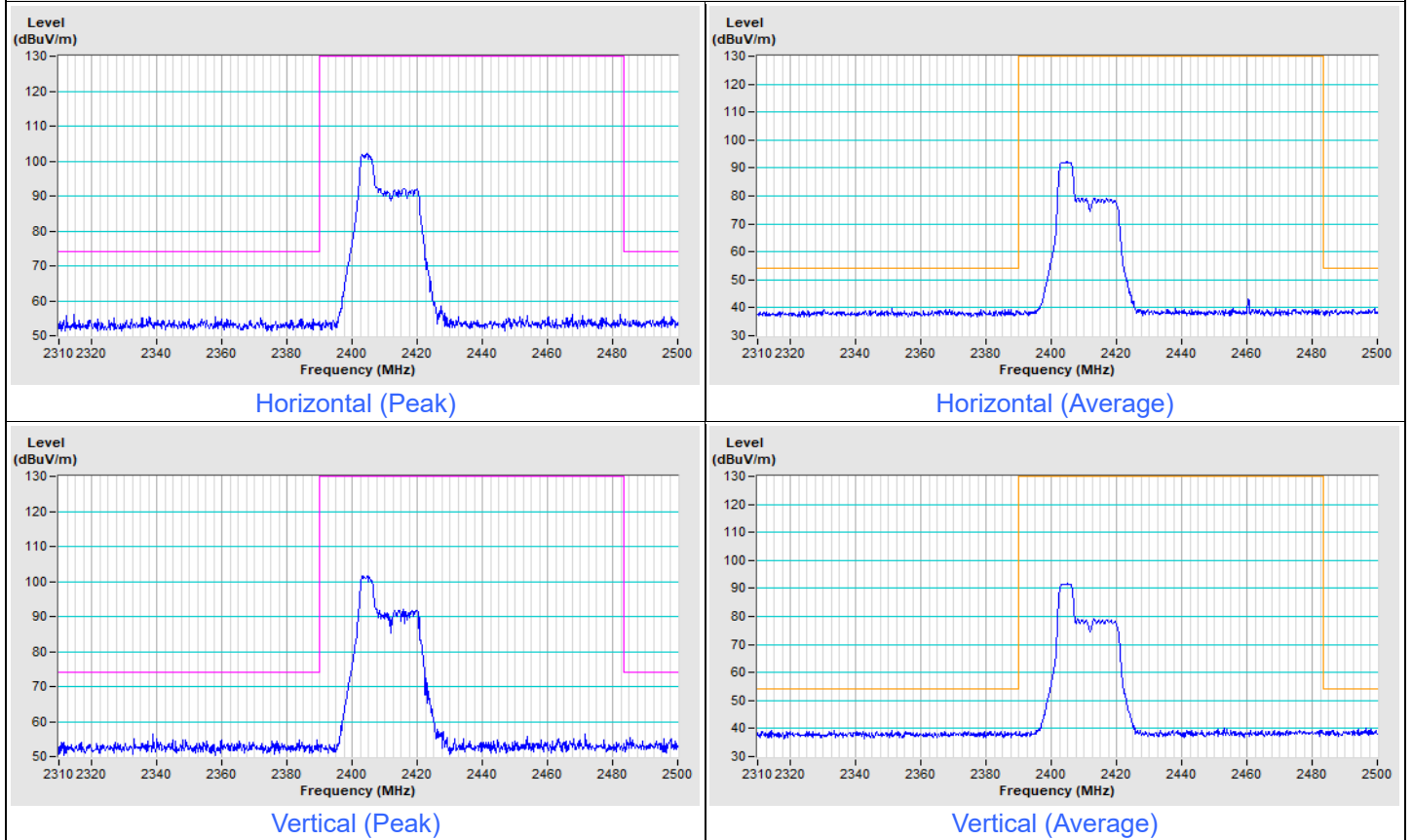
Vertical (Peak)



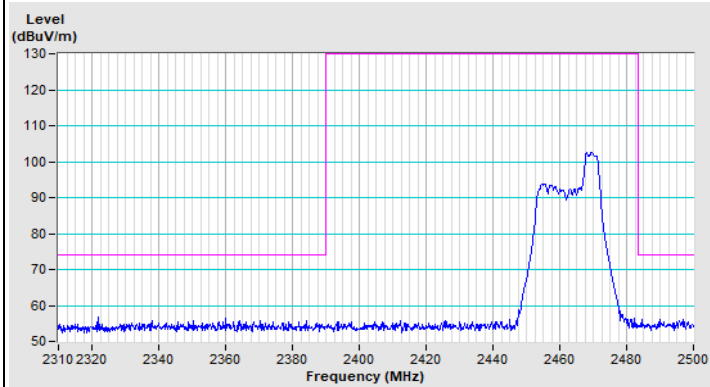
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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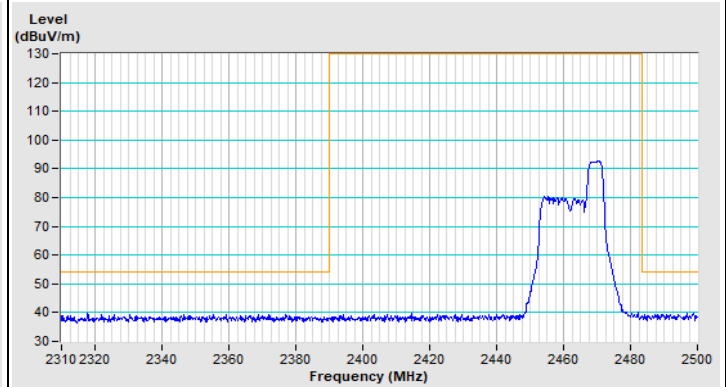
802.11ax (HE20) 52-tone RU Channel 1



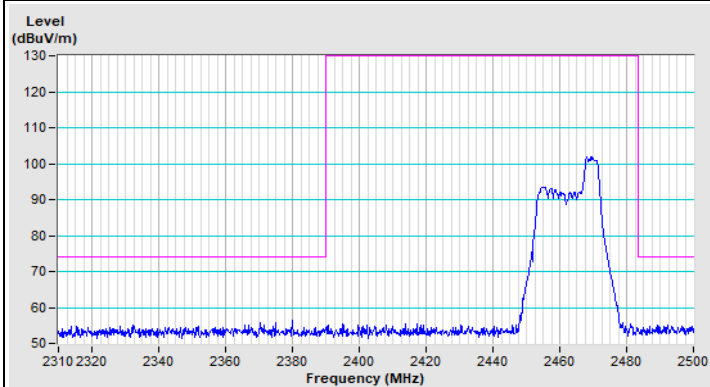
802.11ax (HE20) 52-tone RU Channel 11



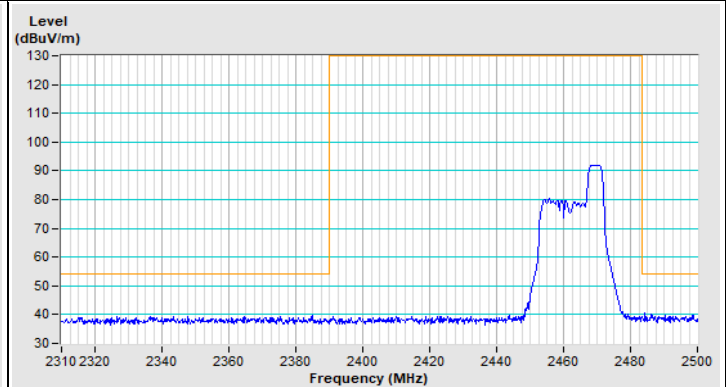
Horizontal (Peak)



Horizontal (Average)



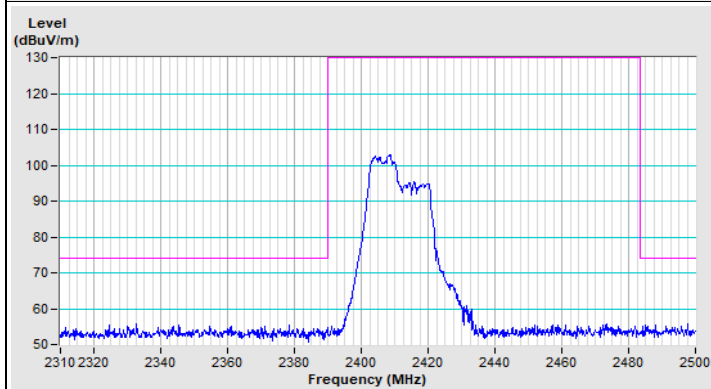
Vertical (Peak)



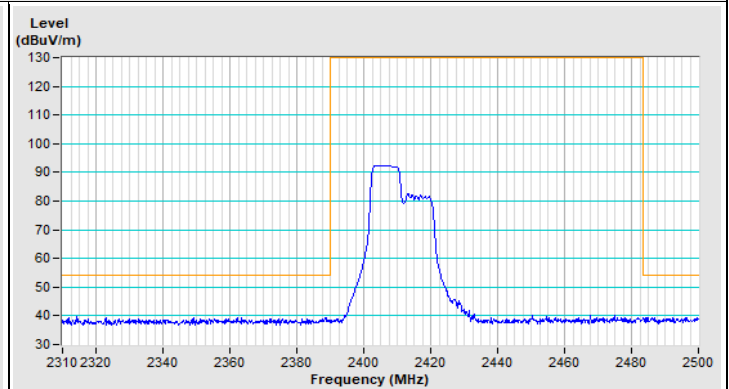
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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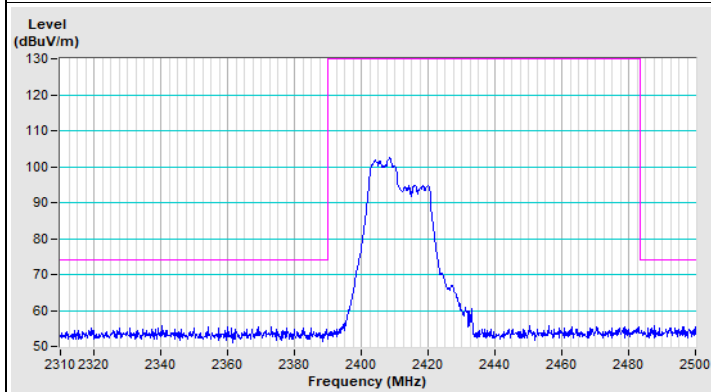
802.11ax (HE20) 106-tone RU Channel 1



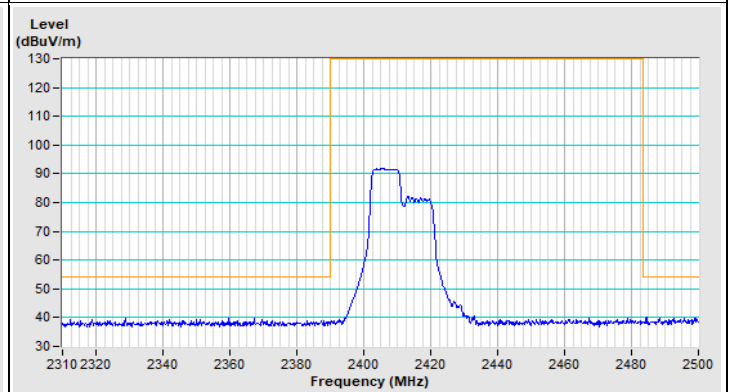
Horizontal (Peak)



Horizontal (Average)

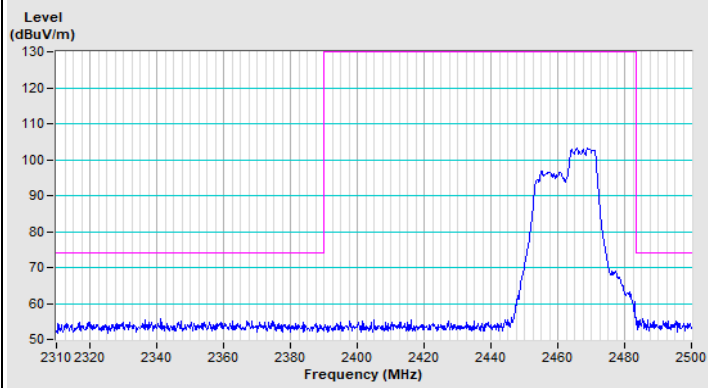


Vertical (Peak)

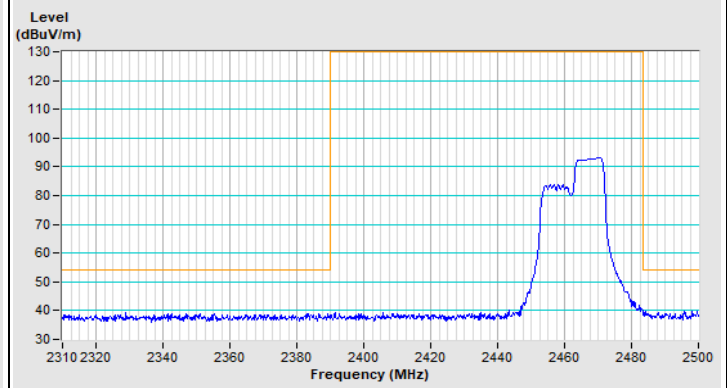


Vertical (Average)

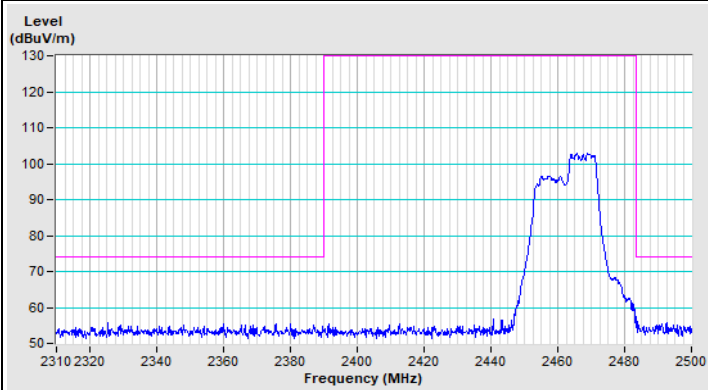
802.11ax (HE20) 106-tone RU Channel 11



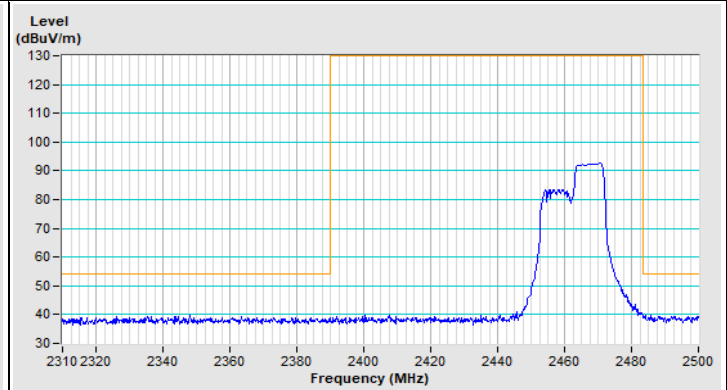
Horizontal (Peak)



Horizontal (Average)



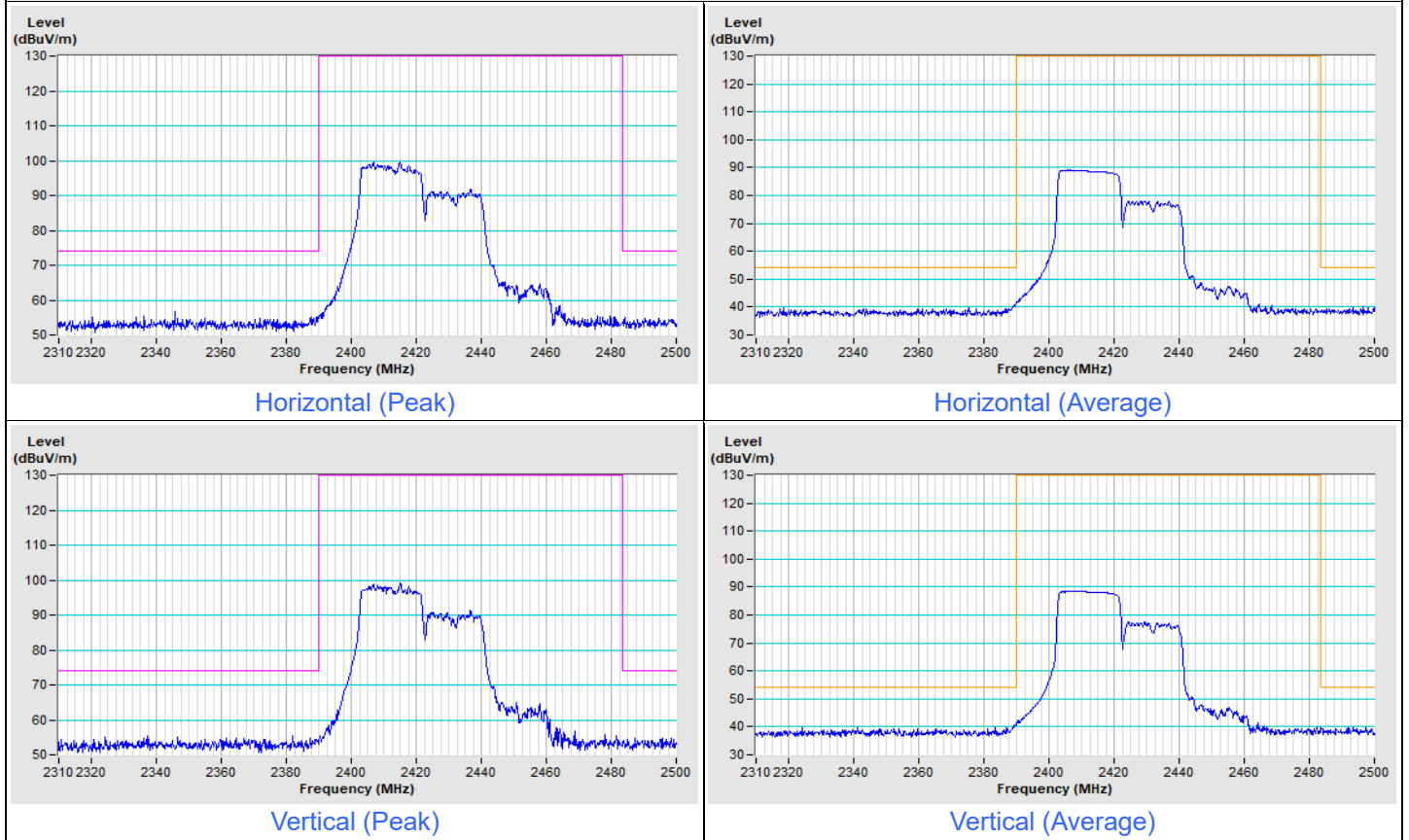
Vertical (Peak)



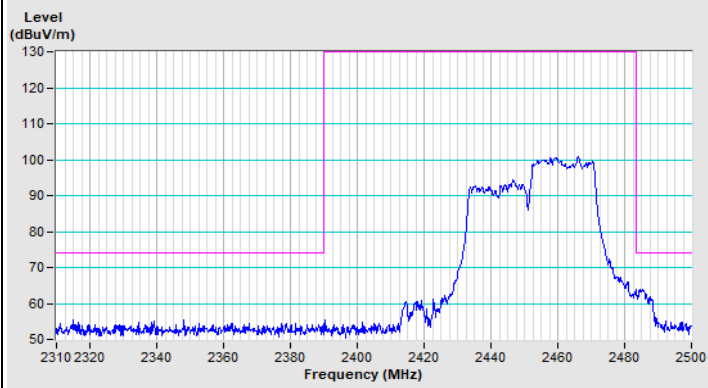
Vertical (Average)

Frequency Range	2.31 GHz ~ 2.5 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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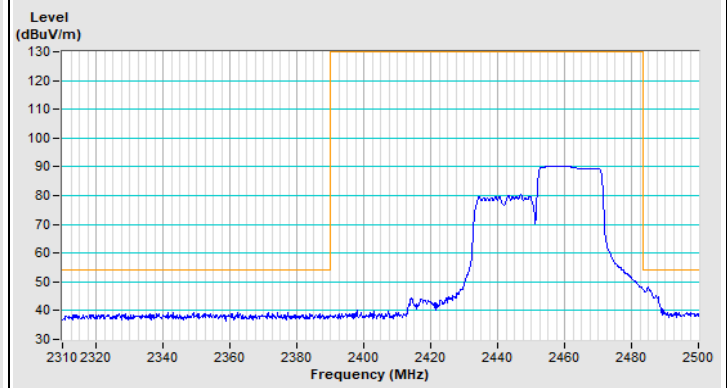
40 MHz Preamble 802.11ax (RU242) Channel 3



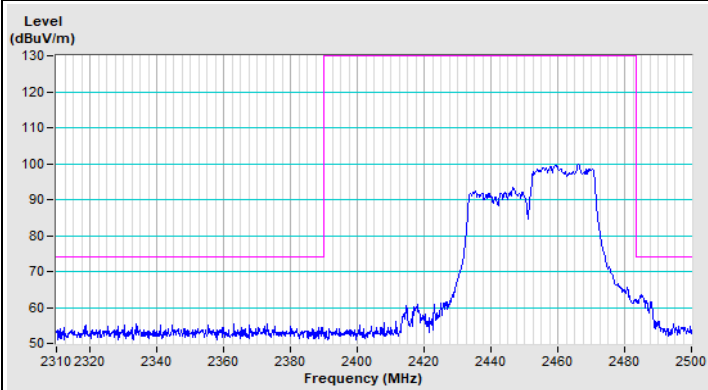
40 MHz Preamble 802.11ax (RU242) Channel 9



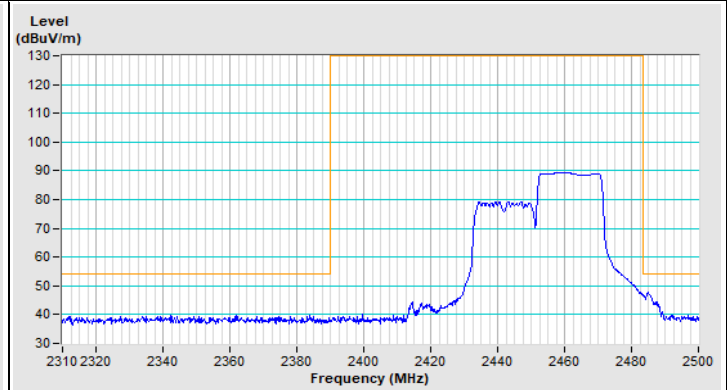
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

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

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