

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBFLF-WTW-P25120381-1

FCC ID: MSQ-USBBE9S00

Product: Tri-band BE6500 WiFi 7 Mini USB Adapter

Brand: ASUSTek Computer Inc. or



Model No.: USB-BE93 Mini

Received Date: 2025/12/16

Test Date: 2026/1/13 ~ 2026/2/4

Issued Date: 2026/3/10

Applicant: ASUSTeK COMPUTER INC.

Address: 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

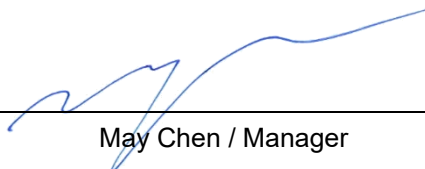
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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

FCC Registration / 723255 / TW2022

Designation Number:

Approved by:


May Chen / Manager

Date:

2026/3/10

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Prepared by : Phoenix Huang / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBFLF-WTW-P25120381-1	Original release.	2026/3/10

1 Certificate

Product: Tri-band BE6500 WiFi 7 Mini USB Adapter

Brand: ASUSTek Computer Inc. or



Test Model: USB-BE93 Mini

Sample Status: Engineering sample

Applicant: ASUSTeK COMPUTER INC.

Test Date: 2026/1/13 ~ 2026/2/4

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

Measurement ANSI C63.10-2020

procedure:

KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

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 -9.36 dB at 0.45078 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -9.3 dB at 38.71 MHz
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -9.0 dB at 2483.50 MHz
15.203	Antenna Requirement	Pass	No antenna connector is used.

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) (±)
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	1050.00 Hz
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.6 dB
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.1 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 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	Tri-band BE6500 WiFi 7 Mini USB Adapter
Brand	ASUSTek Computer Inc. or 
Test Model	USB-BE93 Mini
Status of EUT	Engineering sample
Power Supply Rating	5 Vdc from USB interface
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in VHT mode 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: up to 11 Mbps 802.11g: up to 54 Mbps 802.11n: up to 300 Mbps VHT: up to 400 Mbps 802.11ax: up to 573.5 Mbps 802.11be: up to 688.2 Mbps
Operating Frequency	2.412 GHz ~ 2.462 GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20), 802.11be (EHT20): 11 802.11n (HT40), VHT40, 802.11ax (HE40), 802.11be (EHT40): 7
Output Power	181.566 mW (22.59 dBm)

Note:

1. There are WLAN (2.4 GHz), WLAN (5 GHz) and WLAN (6 GHz) technology used for the EUT.
2. 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 NO.	RF Chain NO.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
1	0	LYNwave	ALA25M-242AA4	-0.5	2.4~2.4835	PIFA	None
				-3.4	5.15~5.25		
				-3.5	5.25~5.35		
				-2.7	5.47~5.725		
				-2.1	5.725~5.85		
				-1.0	5.925~6.425		
				0.1	6.425~6.525		
				0.7	6.525~6.875		
				-1.6	6.875~7.125		
2	1	LYNwave	ALA25M-242AA4	-3.0	2.4~2.4835	PIFA	None
				-1.3	5.15~5.25		
				-2.1	5.25~5.35		
				-3.2	5.47~5.725		
				-3.5	5.725~5.85		
				-4.2	5.925~6.425		
				-4.0	6.425~6.525		
				-3.6	6.525~6.875		
				-1.8	6.875~7.125		

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

2. The EUT incorporates a MIMO function:

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

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), VHT mode for 20 MHz (40 MHz), 802.11ax mode for 20 MHz (40 MHz) and 802.11be mode for 20 MHz (40 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

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

Channel	Frequency	Channel	Frequency
1	2412 MHz	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), VHT40, 802.11ax (HE40), 802.11be (EHT40):

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

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

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	802.11b	1, 6, 11	DBPSK	1Mb/s
	802.11g	1, 6, 11	BPSK	6Mb/s
	802.11be (EHT20)	1, 6, 11	BPSK	MCS0
	802.11be (EHT40)	3, 6, 9	BPSK	MCS0
Power Spectral Density	802.11b	1, 6, 11	DBPSK	1Mb/s
	802.11g	1, 6, 11	BPSK	6Mb/s
	802.11be (EHT20)	1, 6, 11	BPSK	MCS0
	802.11be (EHT40)	3, 6, 9	BPSK	MCS0
6 dB Bandwidth / Conducted Out of Band Emissions	802.11b	1, 6, 11	DBPSK	1Mb/s
	802.11g	1, 6, 11	BPSK	6Mb/s
	802.11be (EHT20)	1, 6, 11	BPSK	MCS0
	802.11be (EHT40)	3, 6, 9	BPSK	MCS0
AC Power Conducted Emissions	802.11b	1	DBPSK	1Mb/s
Unwanted Emissions below 1 GHz	802.11b	1	DBPSK	1Mb/s
Unwanted Emissions above 1 GHz	802.11b	1, 6, 11	DBPSK	1Mb/s
	802.11g	1, 6, 11	BPSK	6Mb/s
	802.11be (EHT20)	1, 6, 11	BPSK	MCS0
	802.11be (EHT40)	3, 6, 9	BPSK	MCS0

Note: Partial RU (resource unit) and channel puncturing mechanisms are not supported.

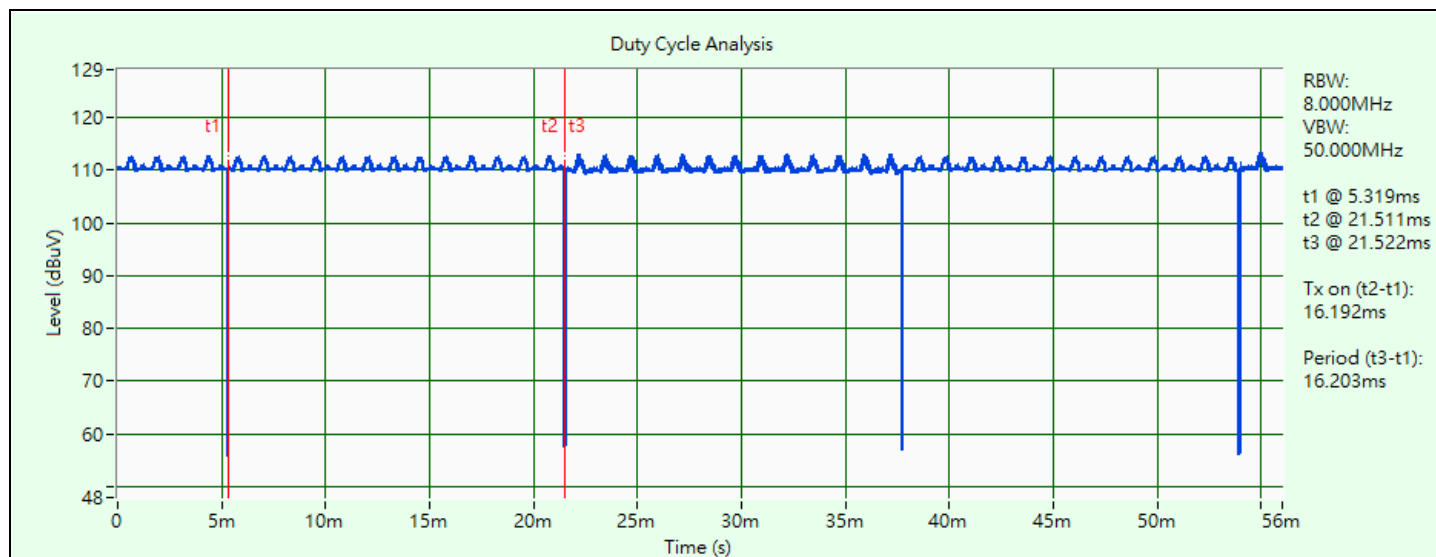
3.5 Duty Cycle of Test Signal

802.11b: Duty cycle = 16.192 ms / 16.203 ms x 100% = 99.9%

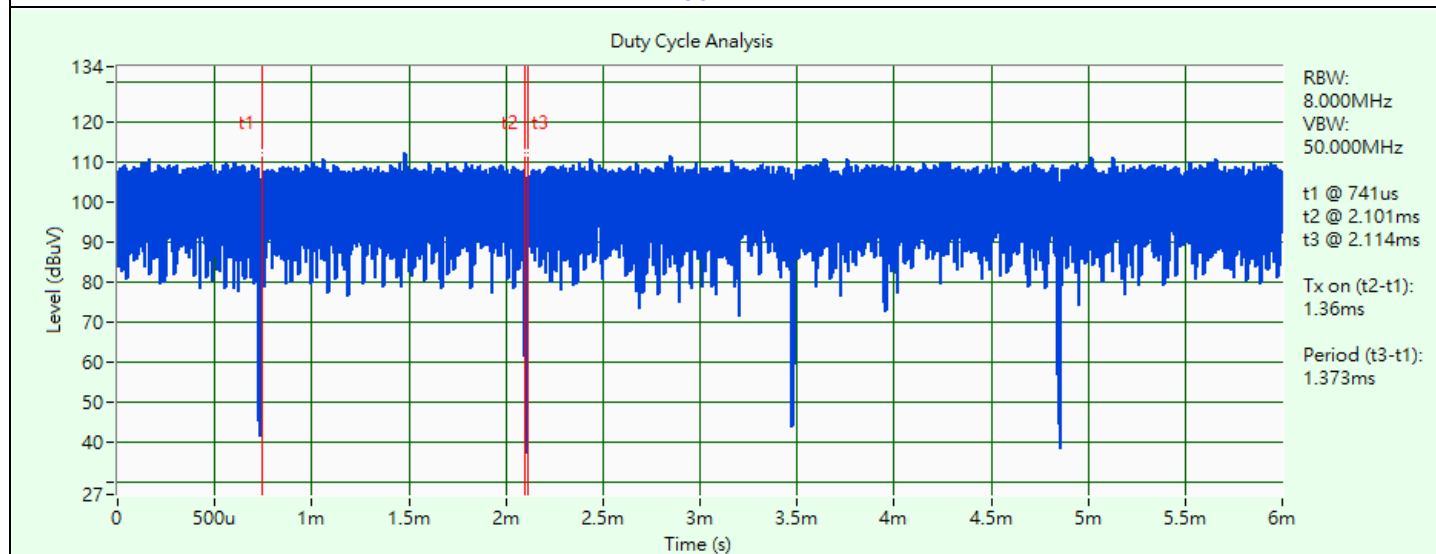
802.11g: Duty cycle = 1.36 ms / 1.373 ms x 100% = 99.1%

802.11be (EHT20): Duty cycle = 1.176 ms / 1.189 ms x 100% = 98.9%

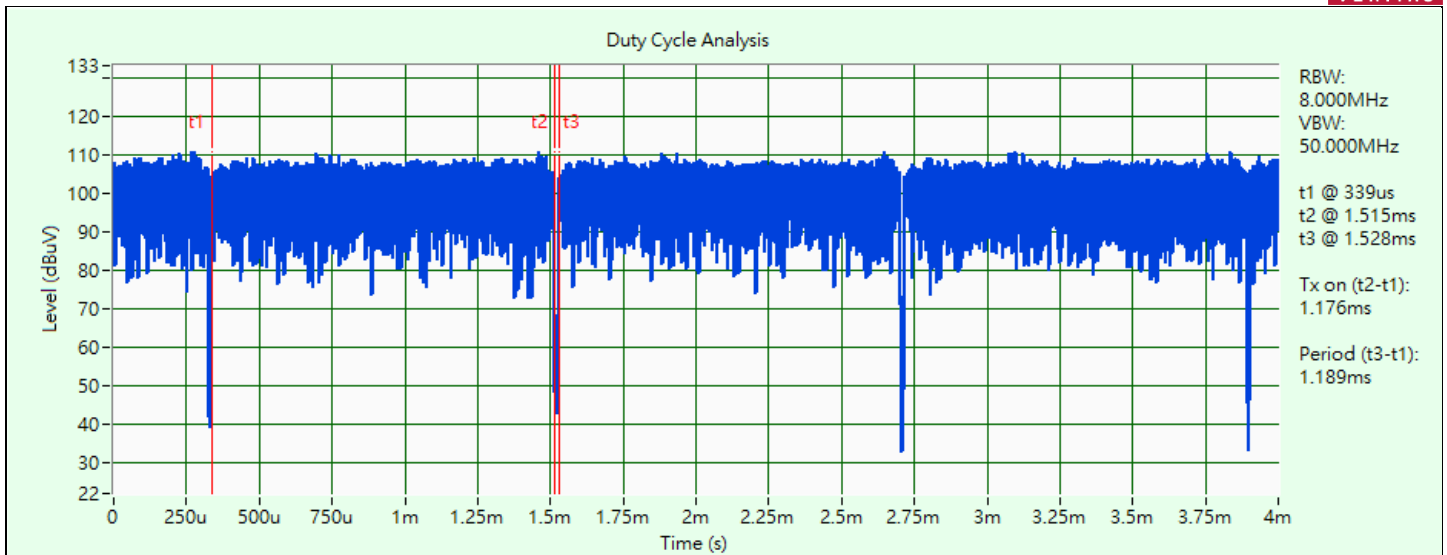
802.11be (EHT40): Duty cycle = 0.626 ms / 0.636 ms x 100% = 98.4%



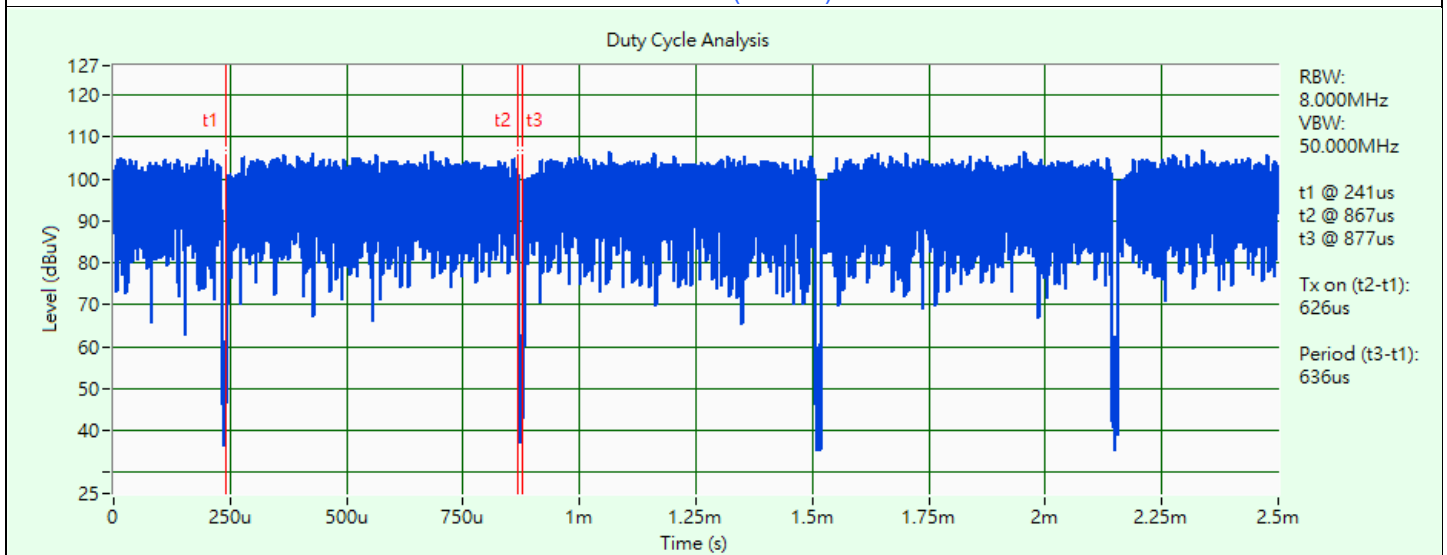
802.11b



802.11g



802.11be (EHT20)



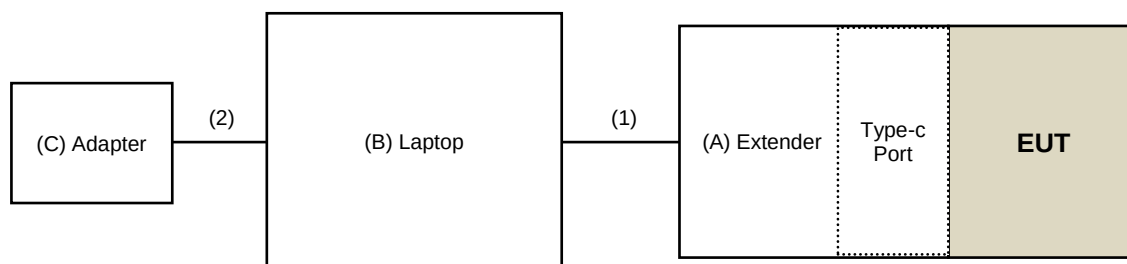
802.11be (EHT40)

3.6 Test Program Used and Operation Descriptions

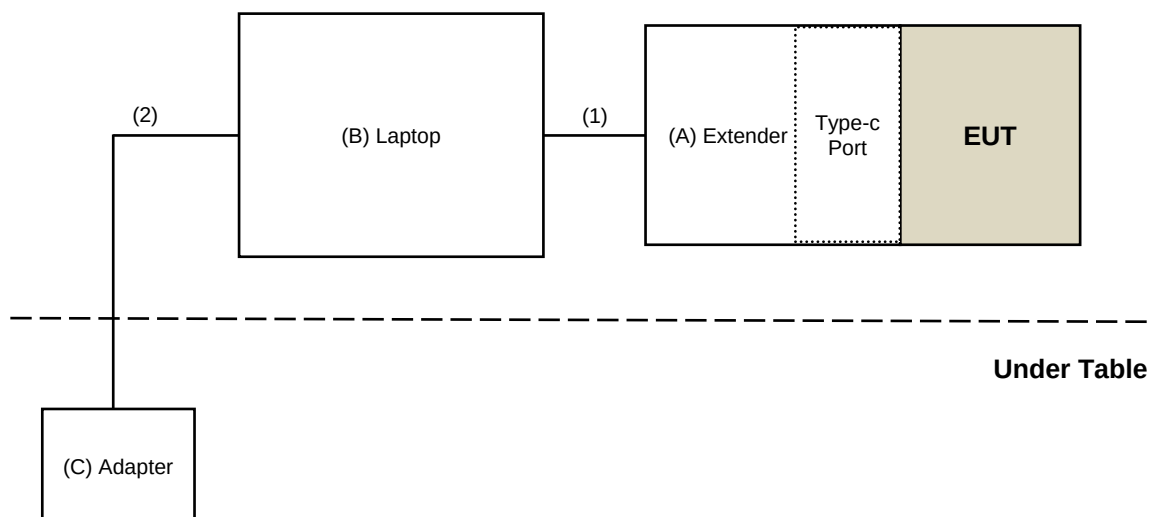
Controlling software (RTL8922A_USB_MP_Package_v2.0.44_v3(170983) - AC7) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For AC Power Conducted Emissions test:



For Unwanted Emissions test:



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Extender	UGREEN	US316	N/A	N/A	Provided by Lab
B	Laptop	Lenovo	81A4	YD02YN2A	PD93165NGU	Provided by Lab
C	Adapter	Lenovo	PA-1450-55LL	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Type-C cable	1	1	Yes	0	Provided by Lab
2	DC Cable	1	2	No	0	Provided by Lab

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-20	00800A1K01A-20-02	2025/5/23	2026/5/22
Pulse Power Sensor Anritsu	MA2411B	1726434	2025/6/3	2026/6/2
RF Power Meter Anritsu	ML2495A	1529002	2025/6/3	2026/6/2

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2026/1/13

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
PXA Signal Analyzer Keysight	N9030A	MY55330160	2025/1/16	2026/1/15
Software	ADT_RF Test Software V8	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2026/1/13

4.3 6 dB Bandwidth

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

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 Telegartner	50 ohm	3	2025/10/29	2026/10/28
EMI Test Receiver R&S	ESCS 30	100375	2025/5/21	2026/5/20
Fixed Attenuator STI	STI02-2200-10	005	2025/2/17	2026/2/16
LISN R&S	ESH3-Z5	835239/001	2025/3/27	2026/3/26
		848773/004	2025/10/3	2026/10/2
RF Coaxial Cable JYBAO	5D-FB	COCCAB-001	2025/2/17	2026/2/16
Software BVADT	BVADT_Conc_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Hsinchu- Conduction 1
2. Tested Date: 2026/2/2

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-0842	2025/9/16	2026/9/15
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR7	102026	2025/3/25	2026/3/24
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	2025/3/29	2026/3/28
Loop Antenna TESEQ	HLA 6121	63620	2025/10/20	2026/10/19
Preamplifier EMCI	EMC330N	980538	2025/3/29	2026/3/28
PXA Signal Analyzer Keysight	N9030B	MY57141948	2025/5/20	2026/5/19
RF Coaxial Cable PEWC	8D	966-5-1	2025/3/29	2026/3/28
		966-5-2	2025/3/29	2026/3/28
		966-5-3	2025/3/29	2026/3/28
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in Hsinchu - 966 Chamber No. 5.
2. Tested Date: 2026/2/2

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR7	102026	2025/3/25	2026/3/24
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1819	2025/11/9	2026/11/8
	BBHA 9170	9170-739	2025/11/9	2026/11/8
Preamplifier EMCI	EMC12630SE	980509	2026/1/17	2027/1/16
	EMC184045SE	980387	2025/8/7	2026/8/6
PXA Signal Analyzer Keysight	N9030B	MY57141948	2025/5/20	2026/5/19
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2026/1/15	2027/1/14
	EMC102-KM-KM-4000	200214	2026/1/15	2027/1/14
	EMC104-SM-SM-1500	180503	2025/3/8	2026/3/7
	EMC104-SM-SM-2000	180501	2025/3/8	2026/3/7
	EMC104-SM-SM-6000	180506	2025/3/8	2026/3/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in Hsinchu - 966 Chamber No. 5.
2. Tested Date: 2026/1/19 ~ 2026/2/4

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)

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

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 20 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 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	$2400/F(\text{kHz})$	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	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 20 dB below the highest level of the desired power:

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

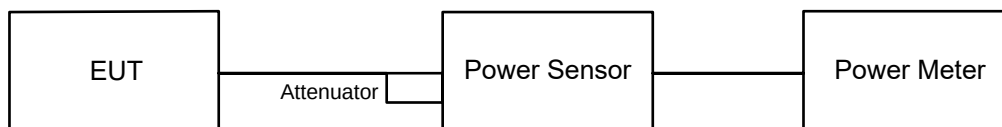
Notes:

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

Peak Power:

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

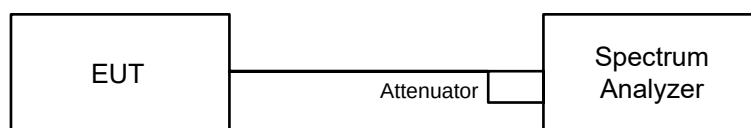
The power meter video bandwidth is greater than or equal to the DTS bandwidth and use a fast responding diode detector.

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

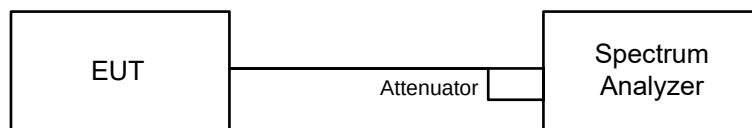


6.2.2 Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span > 1.5 times the DTS bandwidth.
- Set the RBW to: 3 kHz.
- Set the VBW $\geq 3 \times$ RBW.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

6.3 6 dB Bandwidth

6.3.1 Test Setup

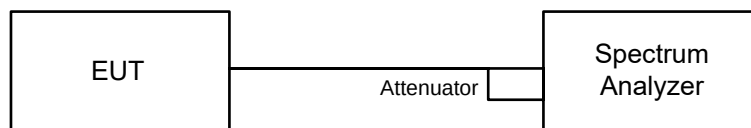


6.3.2 Test Procedure

- a. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b. Set the VBW $\geq [3 \times \text{RBW}]$.
- c. Detector = peak.
- d. Trace mode = max-hold.
- e. Sweep = No faster than coupled (auto) time.
- f. Allow the trace to stabilize.
- g. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

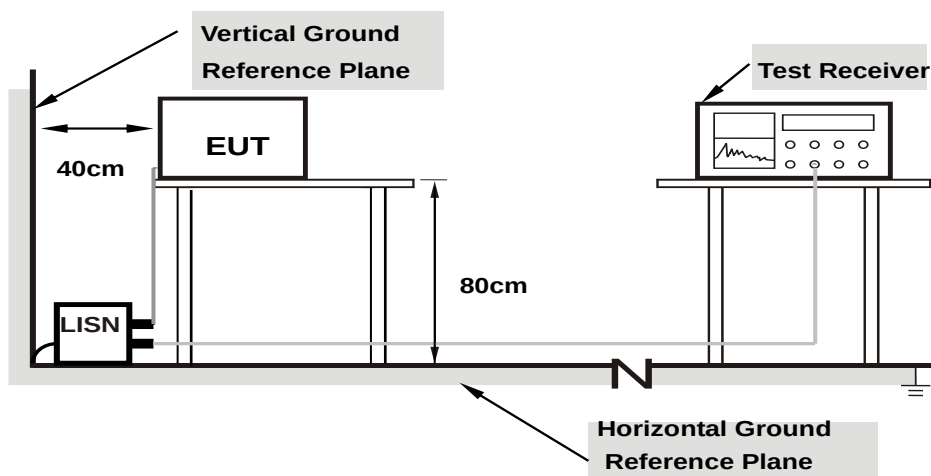
- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

MEASUREMENT PROCEDURE OOBE

- Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.
- Set RBW = 100 kHz.
- Set VBW ≥ 300 kHz.
- Detector = peak.
- Sweep = No faster than coupled (auto) time.
- 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

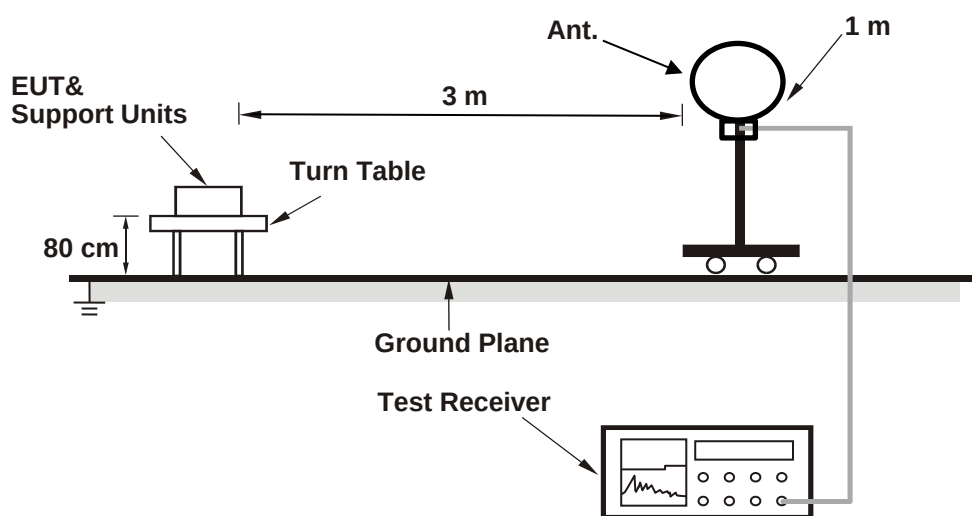
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The 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.

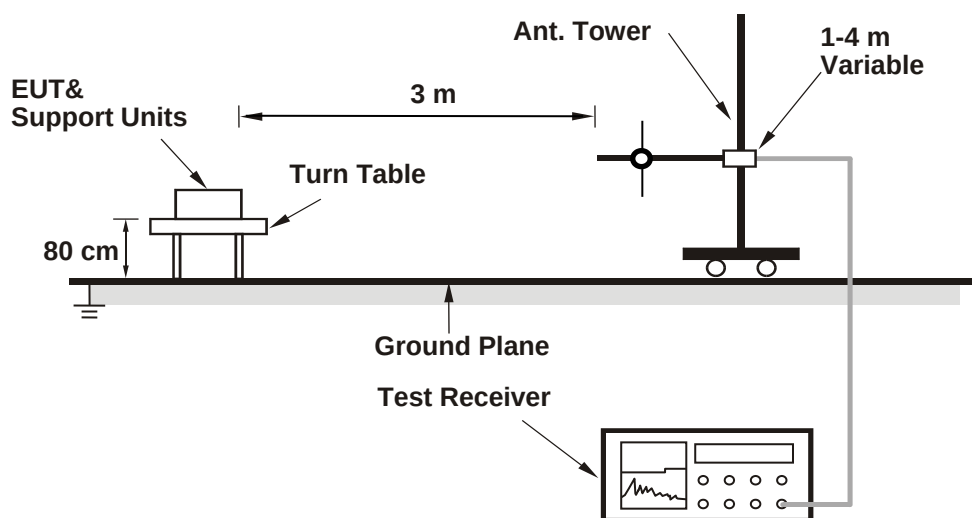
6.6 Unwanted Emissions below 1 GHz

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 (however, peak detector measurements may be used to determine compliance with QP requirements), 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

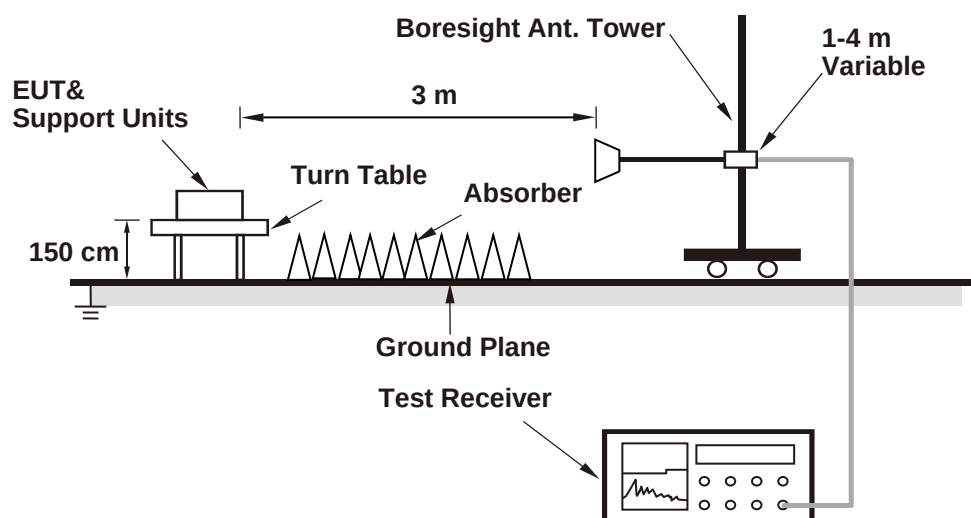
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequencies less than or equal to 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 (however, peak detector measurements may be used to determine compliance with QP requirements).
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:	5 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Bella Yeh
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For Peak Power

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	12.71	12.62	36.945	15.68	30	Pass
6	2437	12.54	12.38	35.245	15.47	30	Pass
11	2462	12.77	12.71	37.587	15.75	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is -0.5 dBi ≤ 6 dBi, so the output power limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	19.42	19.45	175.603	22.45	30	Pass
6	2437	19.19	19.15	165.209	22.18	30	Pass
11	2462	19.41	19.48	176.013	22.46	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is -0.5 dBi ≤ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
1	2412	19.49	19.54	178.87	22.53	30	Pass
6	2437	19.35	19.48	174.815	22.43	30	Pass
11	2462	19.44	19.17	170.506	22.32	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is -0.5 dBi ≤ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
3	2422	19.60	19.56	181.566	22.59	30	Pass
6	2437	19.29	19.35	171.017	22.33	30	Pass
9	2452	19.65	19.26	176.591	22.47	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is -0.5 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

For Average Power

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	10.41	10.44	22.056	13.44
6	2437	10.32	10.38	21.679	13.36
11	2462	10.44	10.34	21.881	13.40

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	10.21	10.37	21.385	13.30
6	2437	10.21	10.29	21.186	13.26
11	2462	10.34	10.41	21.804	13.39

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	10.30	10.21	21.211	13.27
6	2437	10.35	10.35	21.679	13.36
11	2462	10.33	10.22	21.309	13.29

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	10.36	10.38	21.779	13.38
6	2437	10.39	10.32	21.704	13.37
9	2452	10.32	10.38	21.679	13.36

7.2 Power Spectral Density

Input Power:	5 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Bella Yeh
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802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-12.32	-12.64	-9.47	8	Pass
6	2437	-12.46	-12.45	-9.44	8	Pass
11	2462	-12.42	-12.46	-9.43	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. The directional gain is 1.35 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11g

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-13.56	-13.97	-10.75	8	Pass
6	2437	-13.62	-13.99	-10.79	8	Pass
11	2462	-13.44	-13.79	-10.60	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. The directional gain is 1.35 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
1	2412	-13.93	-13.74	-10.82	8	Pass
6	2437	-14.01	-14.05	-11.02	8	Pass
11	2462	-14.42	-14.65	-11.52	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. The directional gain is 1.35 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

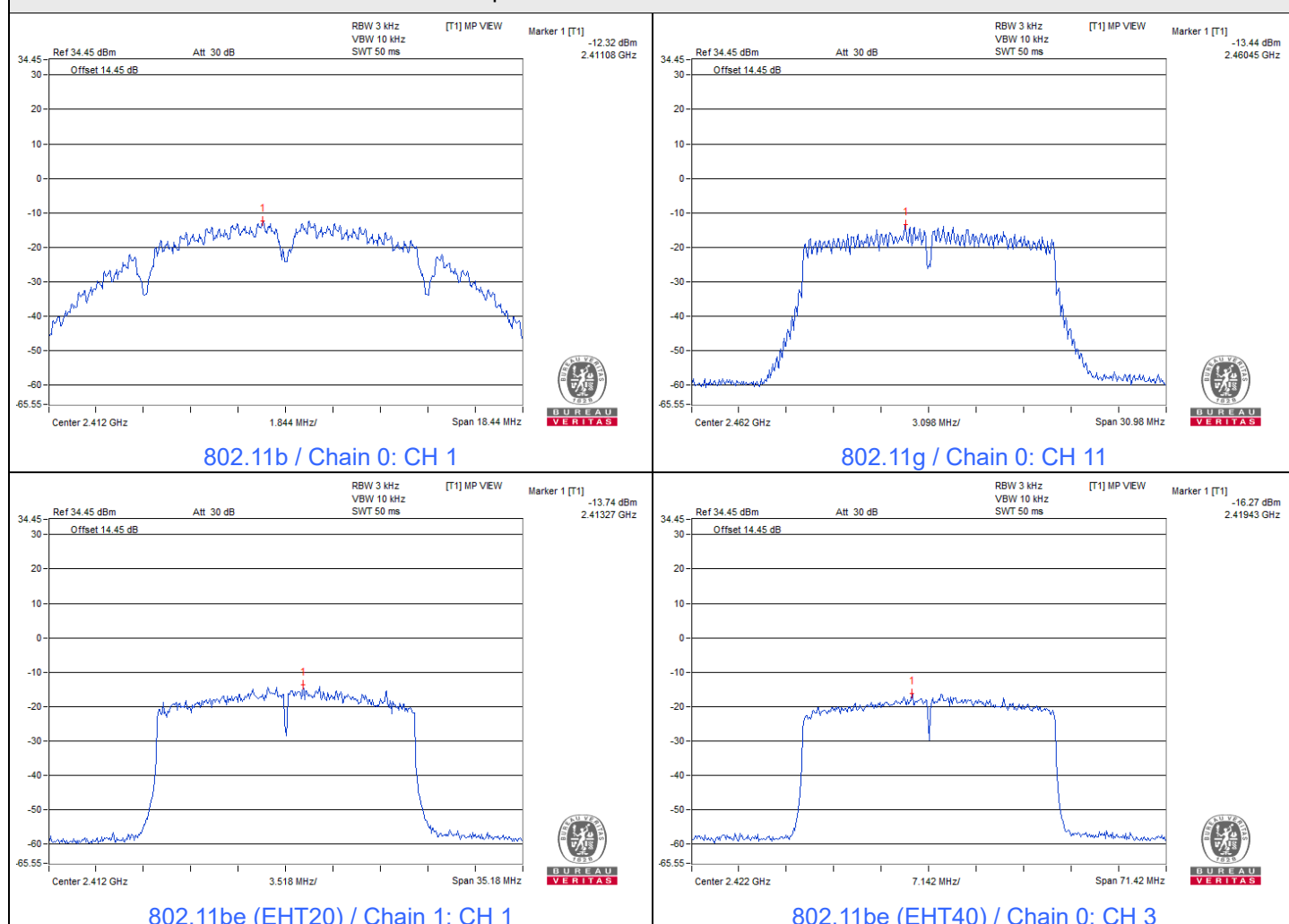
802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
		Chain 0	Chain 1			
3	2422	-16.27	-16.82	-13.53	8	Pass
6	2437	-16.89	-16.97	-13.92	8	Pass
9	2452	-16.96	-17.15	-14.04	8	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. The directional gain is 1.35 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

Spectrum Plot of Maximum Value



7.3 6 dB Bandwidth

Input Power:	5 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Bella Yeh
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802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	9.22	9.22	0.5	Pass
6	2437	9.22	9.22	0.5	Pass
11	2462	9.22	9.22	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	15.32	15.31	0.5	Pass
6	2437	15.31	15.32	0.5	Pass
11	2462	15.49	15.33	0.5	Pass

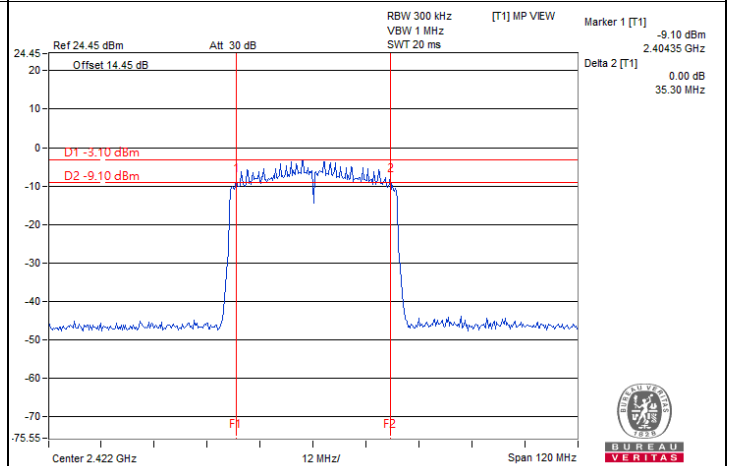
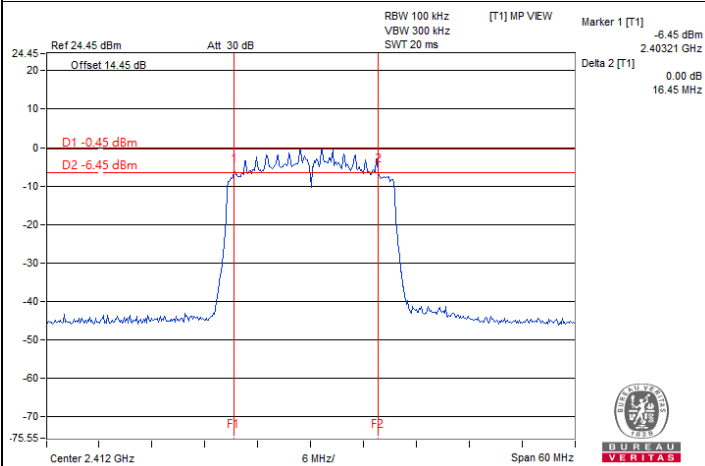
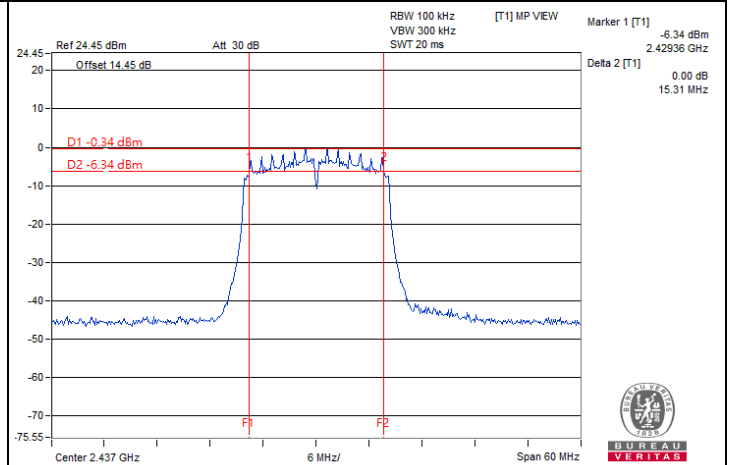
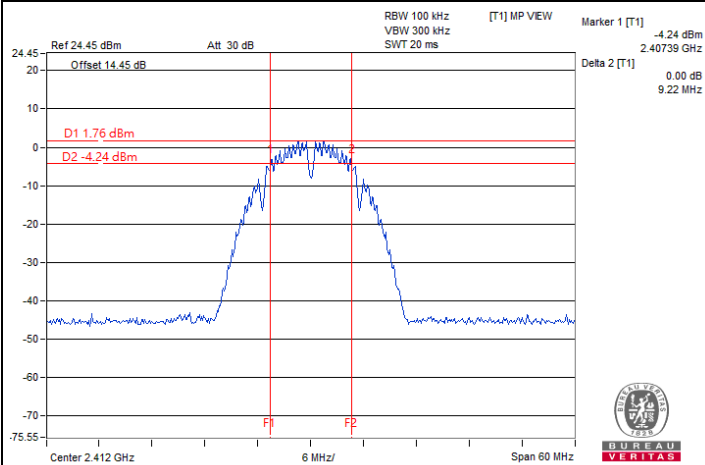
802.11be (EHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
1	2412	16.45	17.59	0.5	Pass
6	2437	17.08	17.56	0.5	Pass
11	2462	17.20	17.60	0.5	Pass

802.11be (EHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
3	2422	35.71	35.30	0.5	Pass
6	2437	35.35	35.36	0.5	Pass
9	2452	35.39	35.38	0.5	Pass

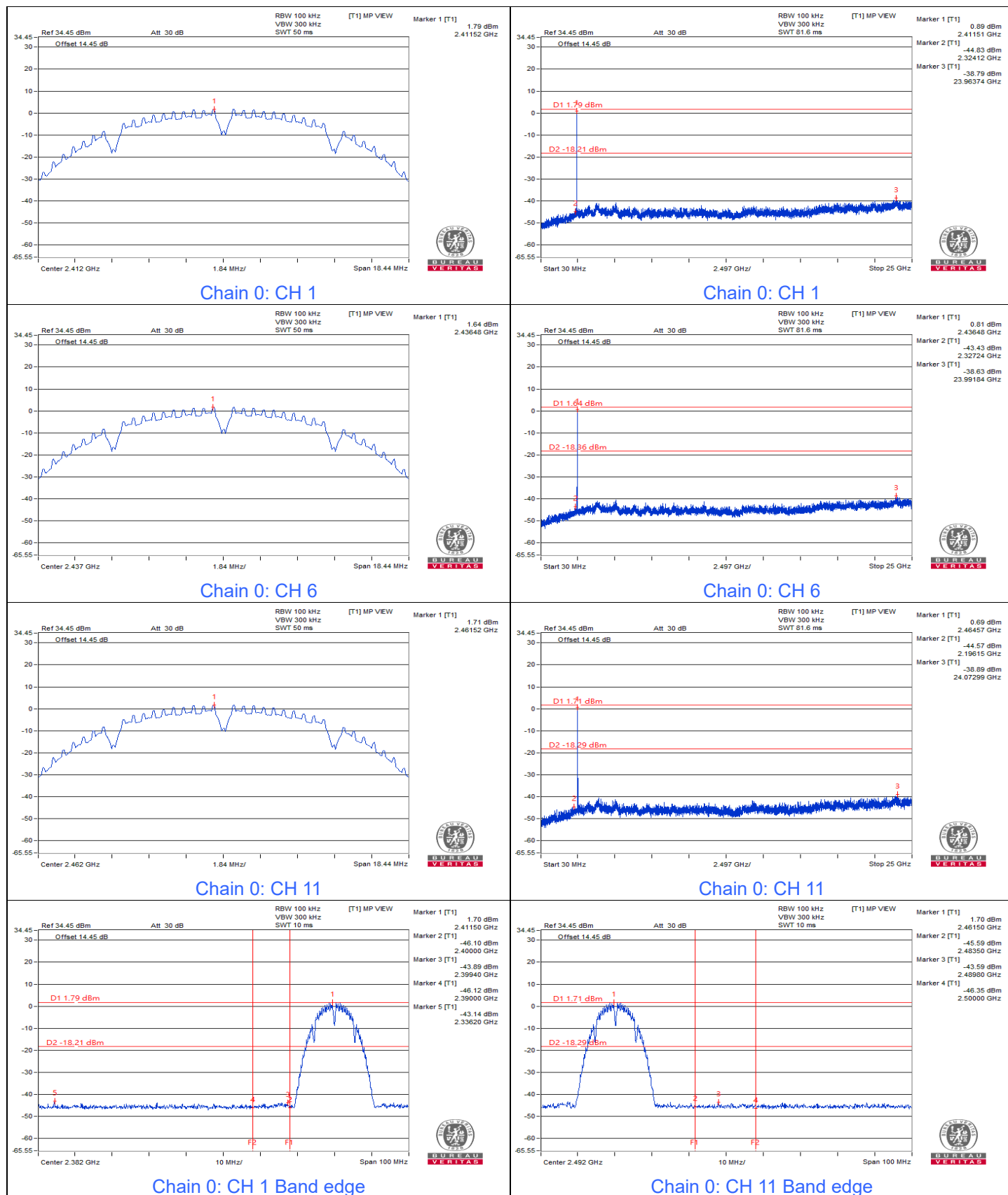
Spectrum Plot of Minimum Value

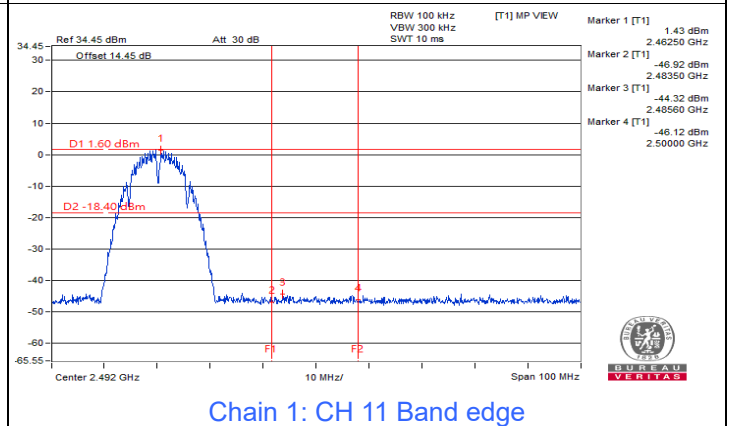
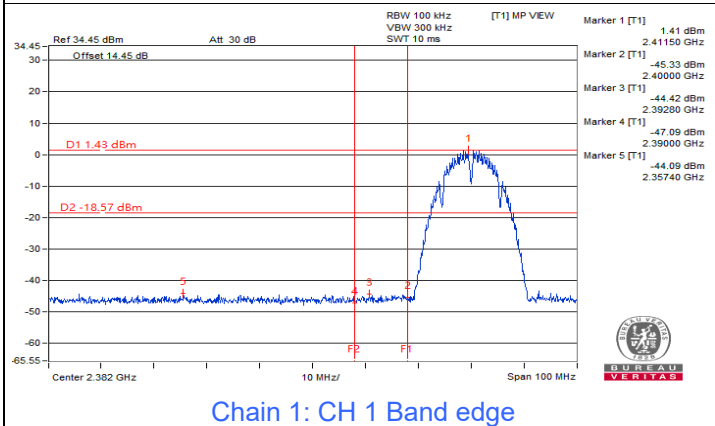
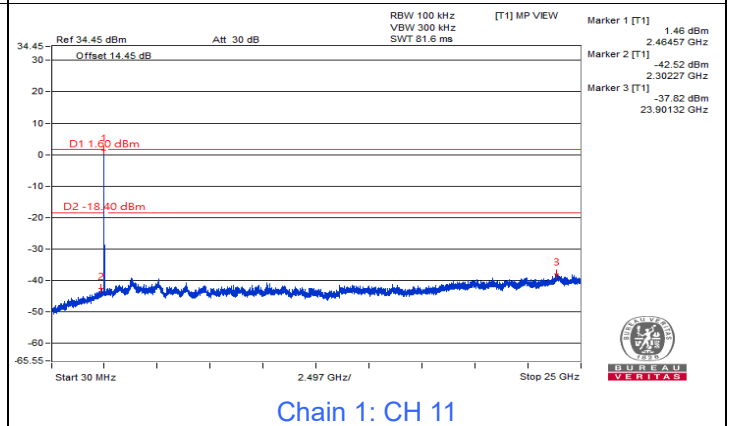
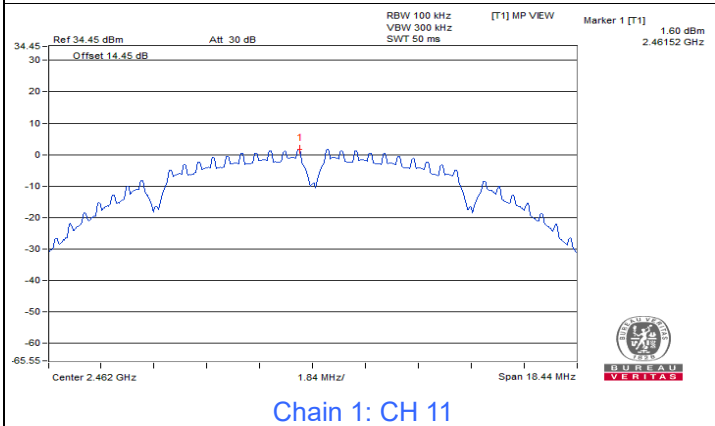
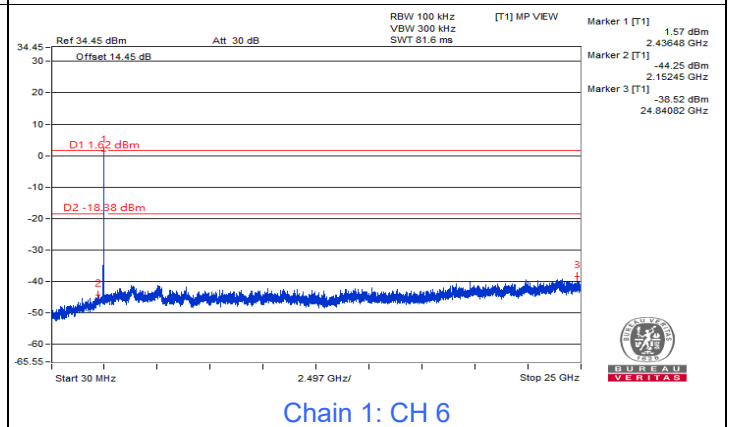
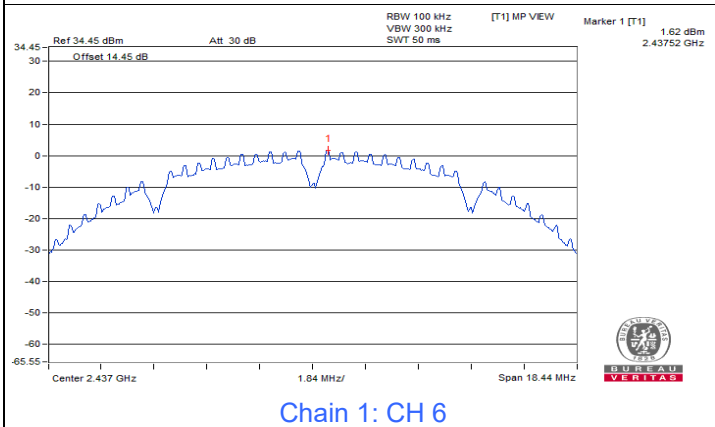
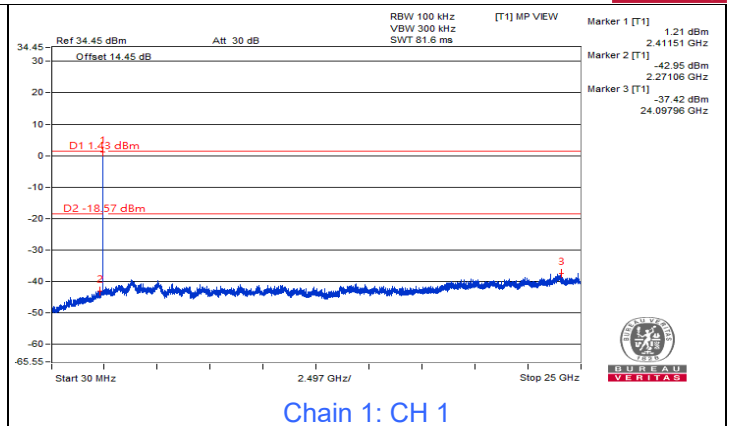
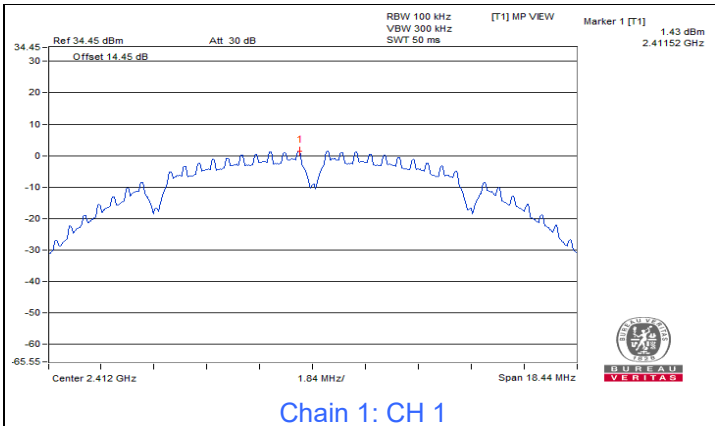


7.4 Conducted Out of Band Emissions

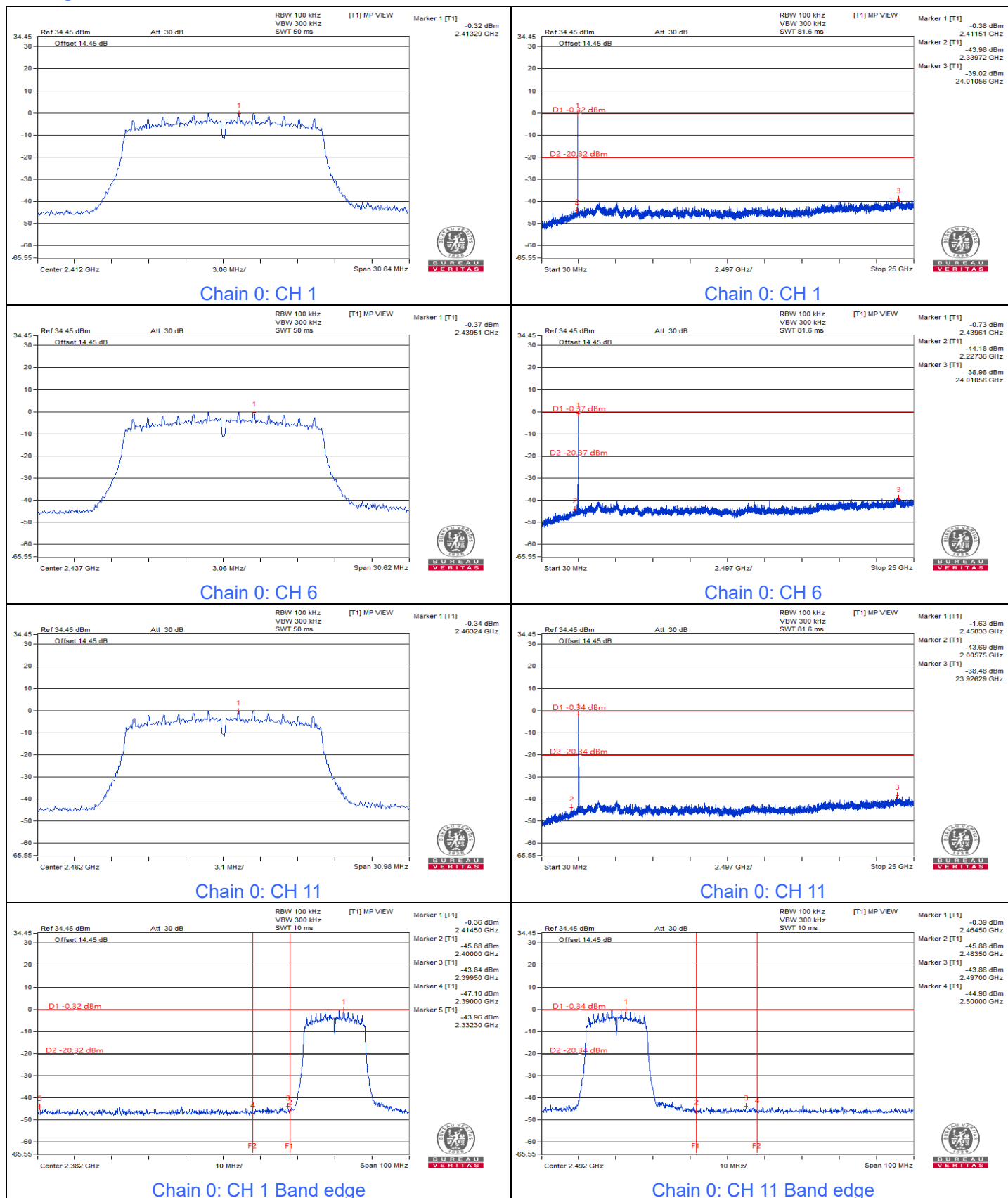
Input Power:	5 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Bella Yeh
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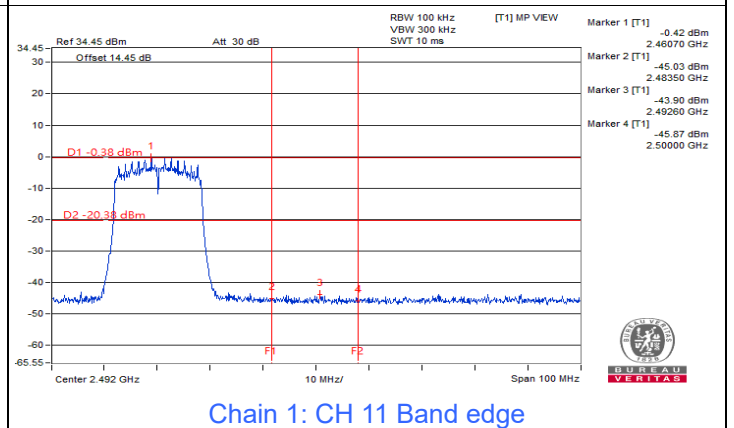
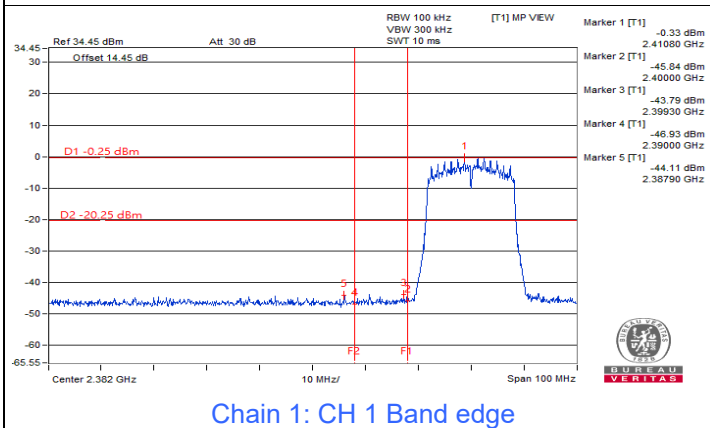
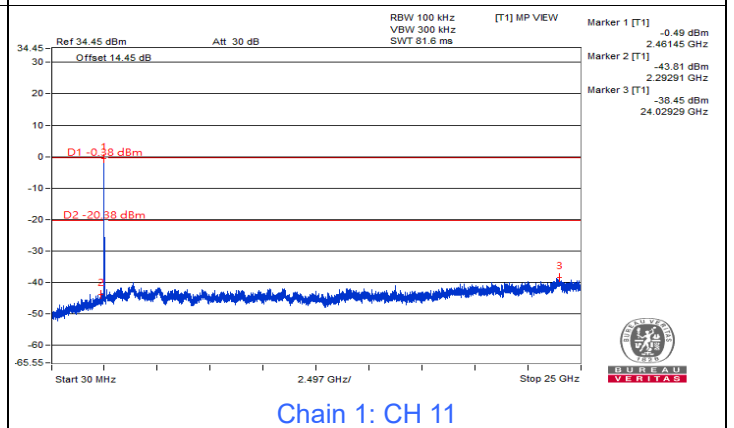
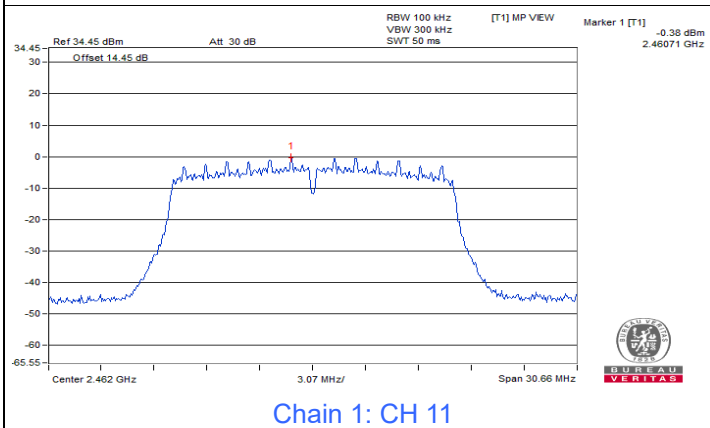
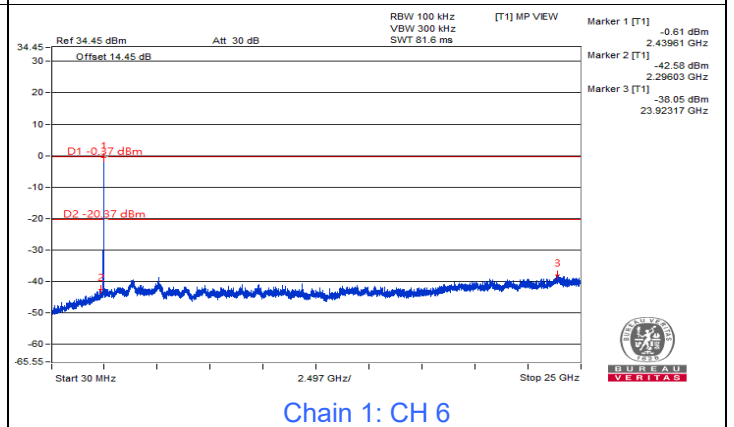
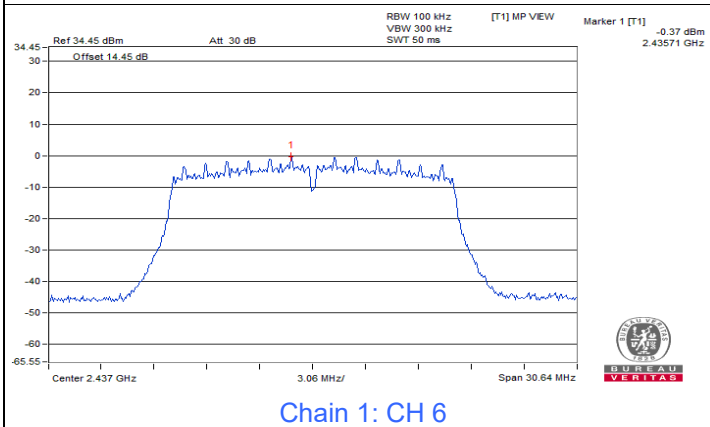
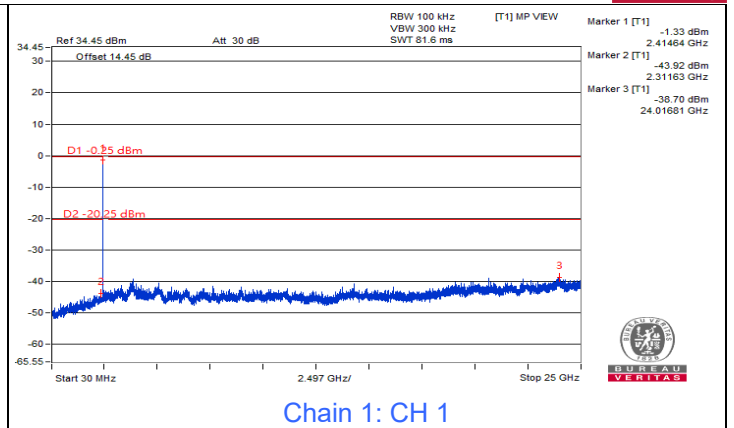
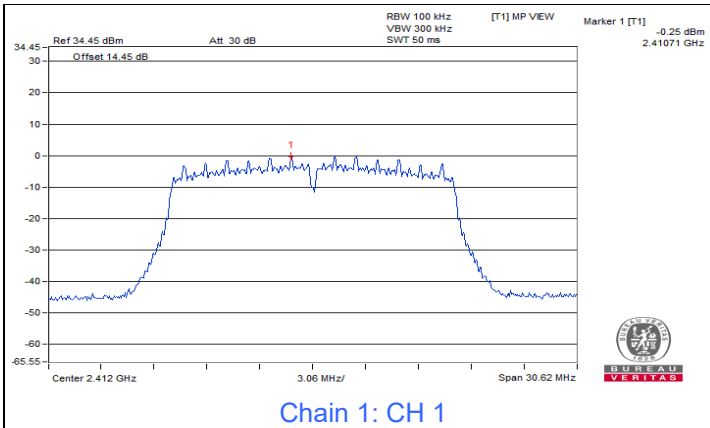
802.11b





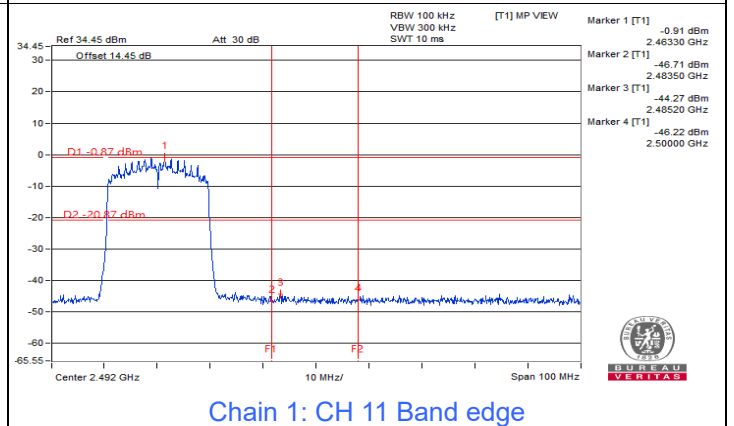
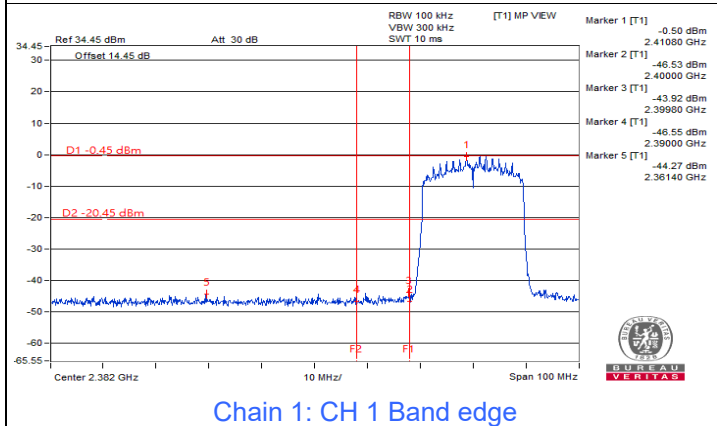
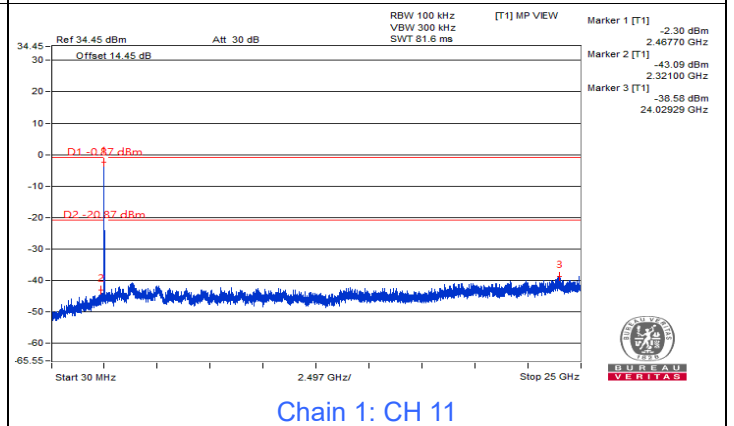
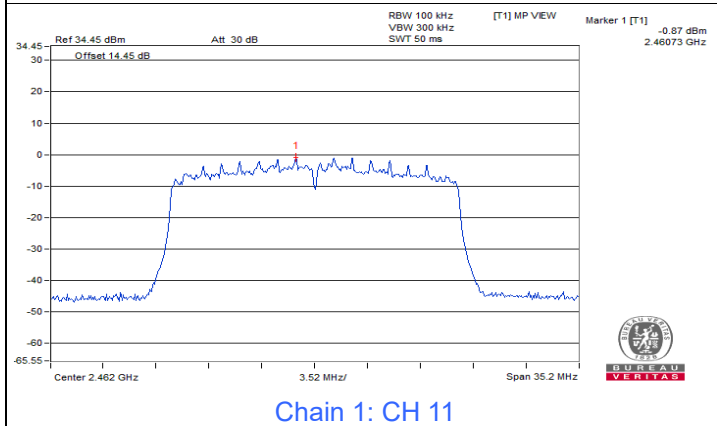
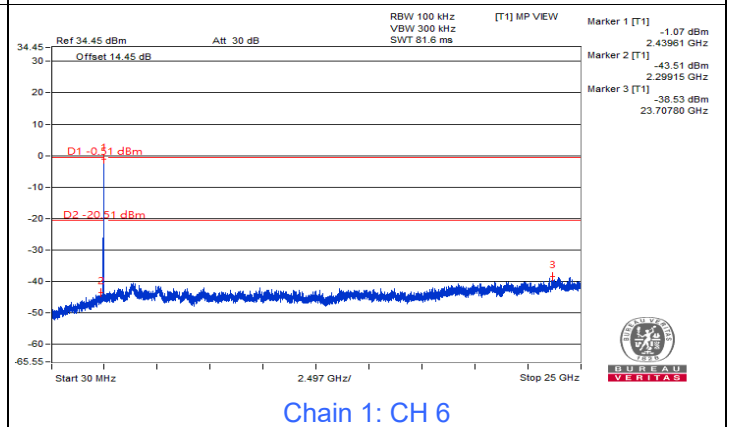
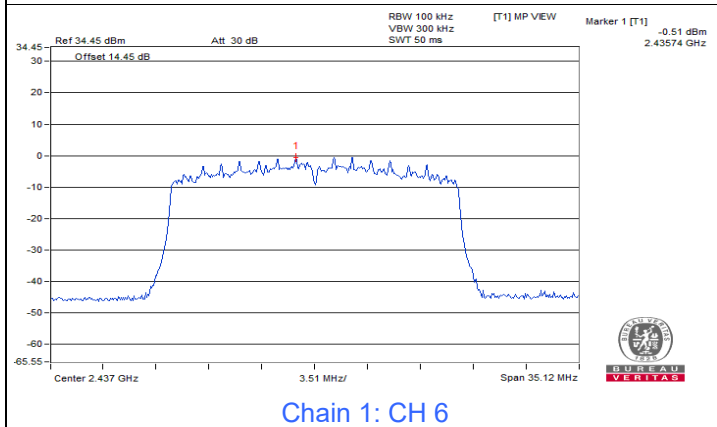
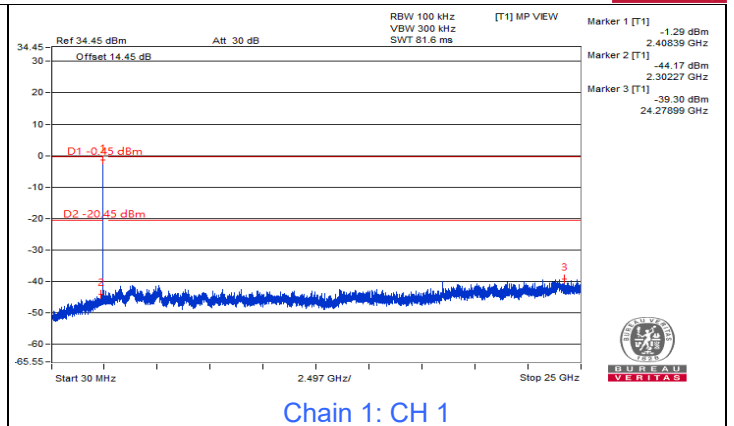
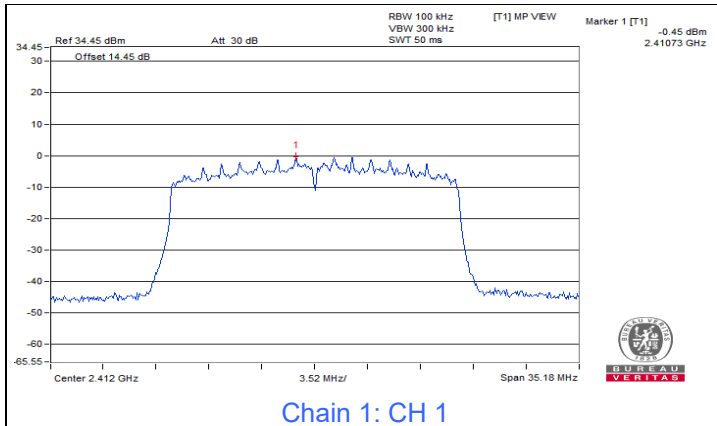
802.11g



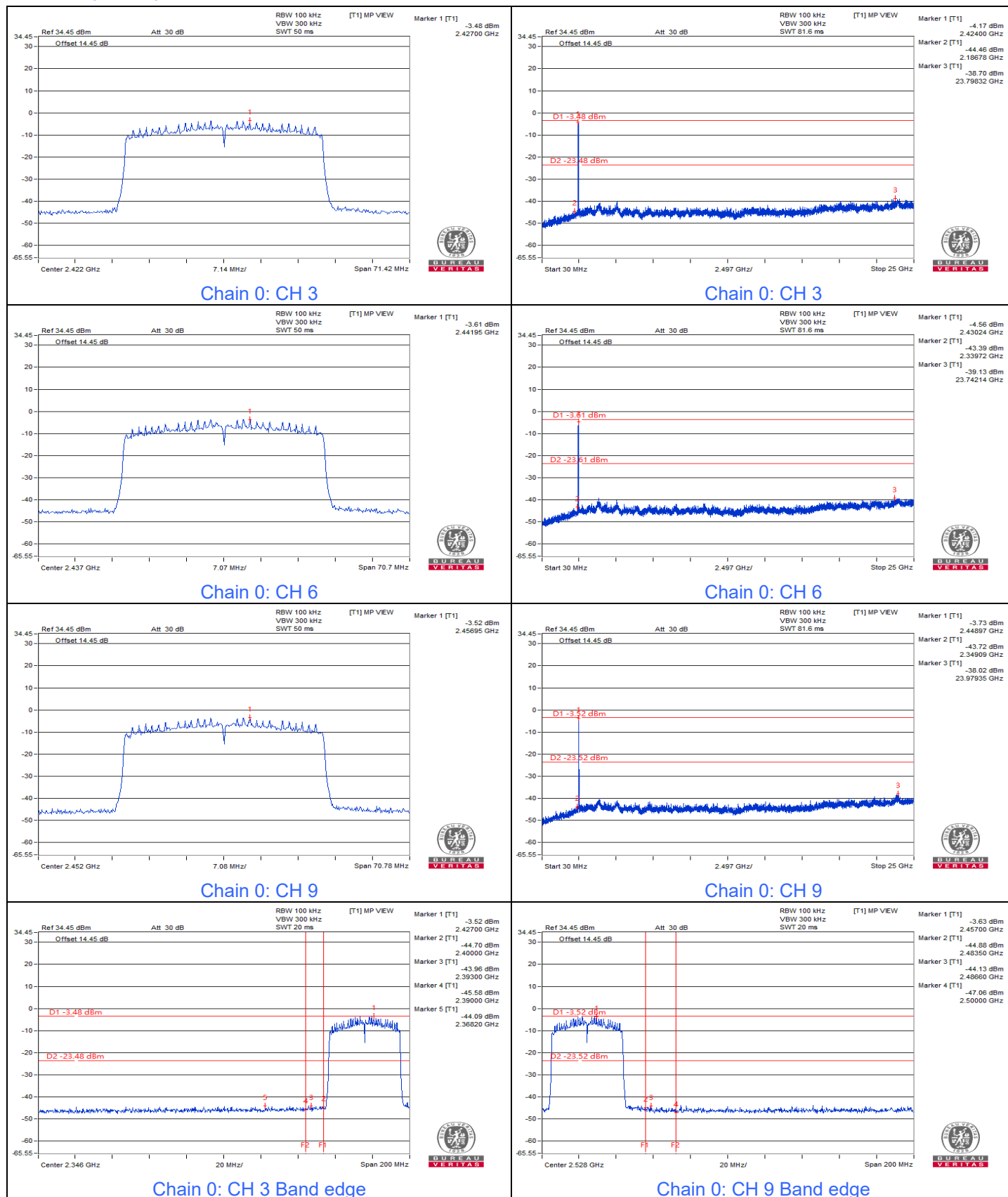


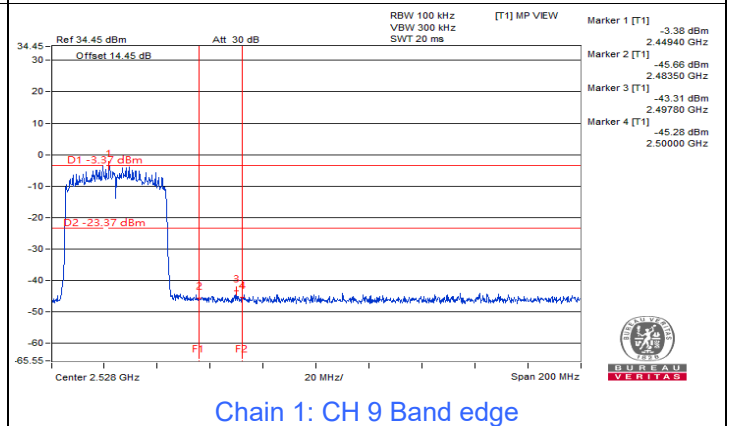
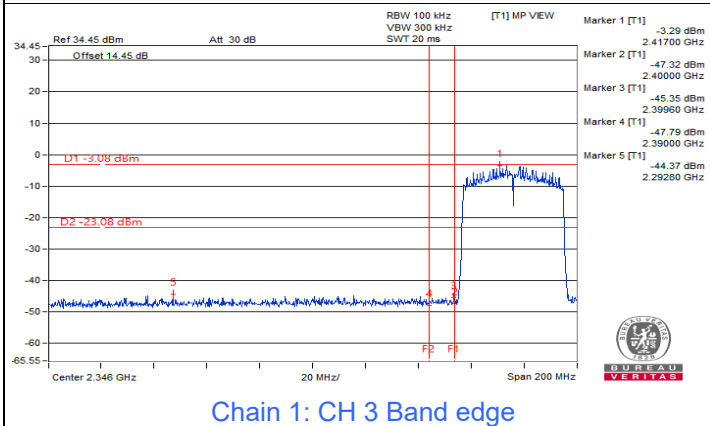
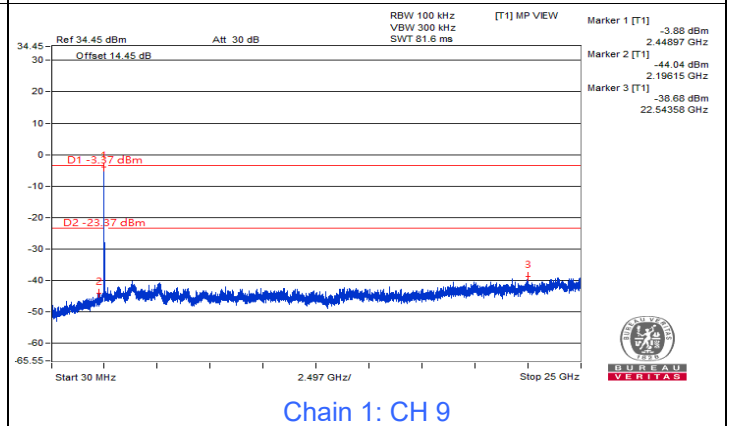
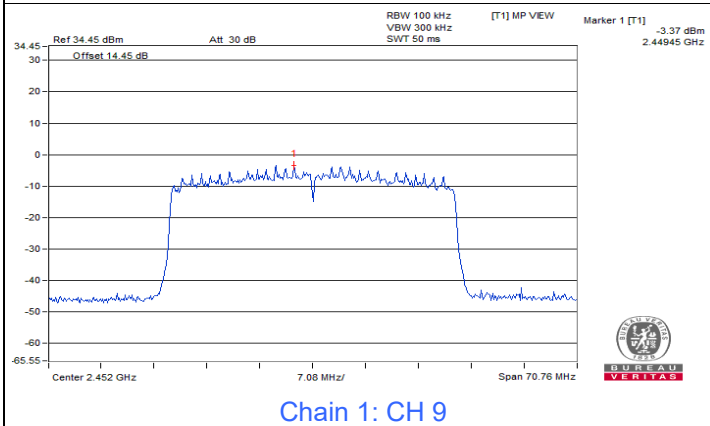
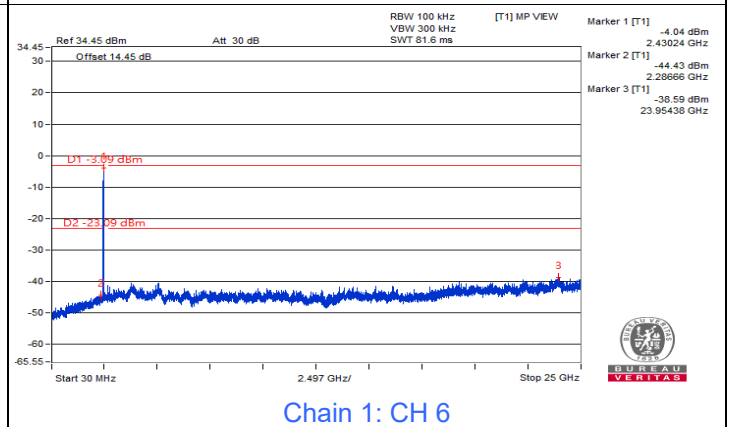
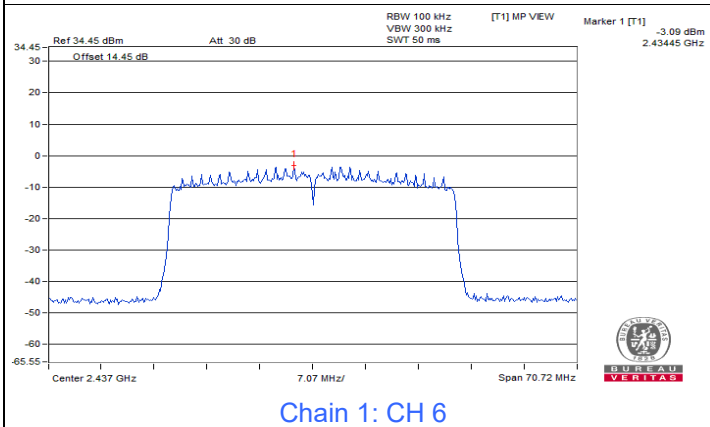
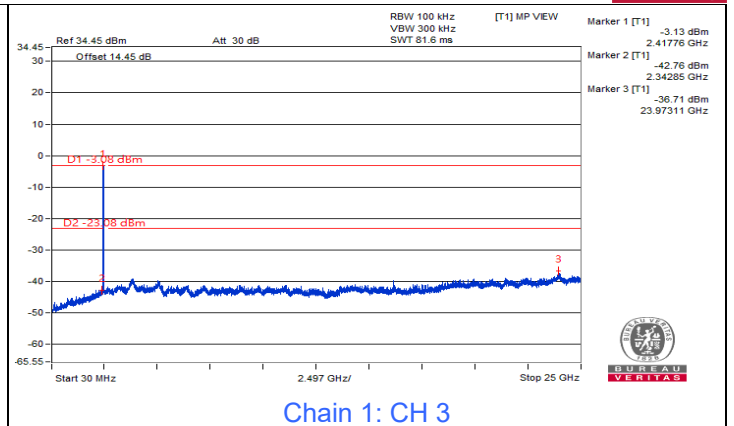
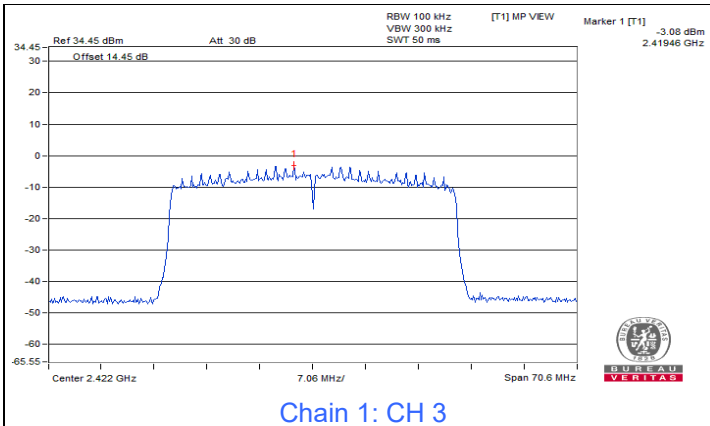
802.11be (EHT20)





802.11be (EHT40)





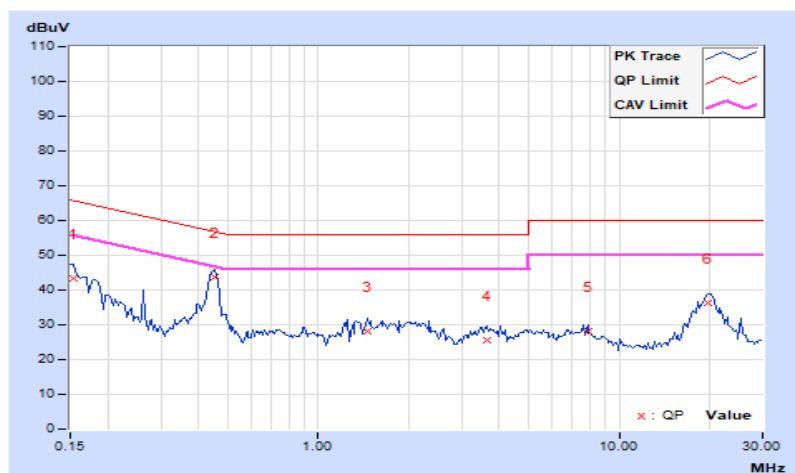
7.5 AC Power Conducted Emissions

RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 41% RH
Tested By	Roy Mai		

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	0.15391	9.96	33.24	18.40	43.20	28.36	65.79	55.79	-22.59	-27.43
2	0.45078	10.00	33.71	27.50	43.71	37.50	56.86	46.86	-13.15	-9.36
3	1.45313	10.07	17.96	11.38	28.03	21.45	56.00	46.00	-27.97	-24.55
4	3.64844	10.21	15.29	10.01	25.50	20.22	56.00	46.00	-30.50	-25.78
5	7.86719	10.49	17.58	10.96	28.07	21.45	60.00	50.00	-31.93	-28.55
6	19.70313	11.25	25.08	20.46	36.33	31.71	60.00	50.00	-23.67	-18.29

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

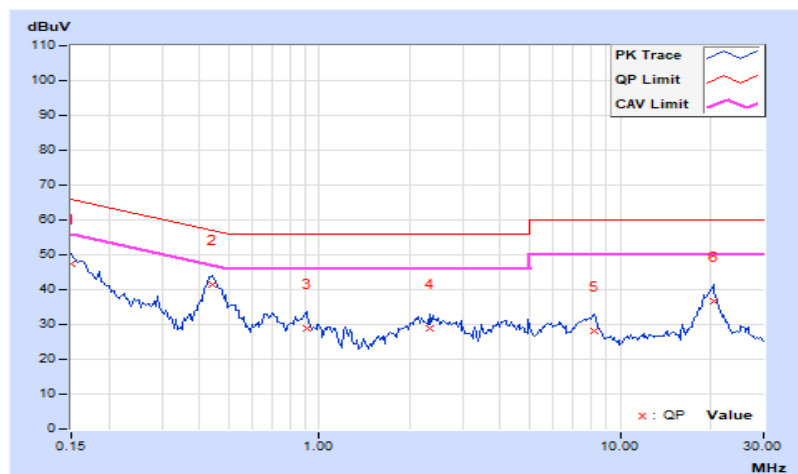


RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 41% RH
Tested By	Roy Mai		

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	9.98	37.53	21.43	47.51	31.41	66.00	56.00	-18.49	-24.59
2	0.43906	9.93	31.39	26.09	41.32	36.02	57.08	47.08	-15.76	-11.06
3	0.90781	9.98	19.02	13.42	29.00	23.40	56.00	46.00	-27.00	-22.60
4	2.32422	10.08	18.78	13.99	28.86	24.07	56.00	46.00	-27.14	-21.93
5	8.21484	10.36	17.73	12.45	28.09	22.81	60.00	50.00	-31.91	-27.19
6	20.37891	10.96	25.75	21.25	36.71	32.21	60.00	50.00	-23.29	-17.79

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



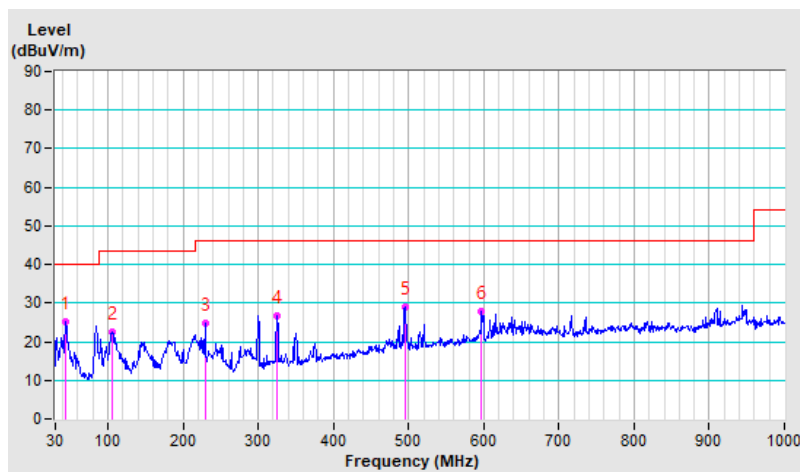
7.6 Unwanted Emissions below 1 GHz

RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23.1 °C, 63.9% RH
Tested By	Roy Mai		

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	44.48	25.0 PK	40.0	-15.0	1.50 H	210	42.5	-17.5
2	104.76	22.4 PK	43.5	-21.1	2.00 H	252	43.6	-21.2
3	229.26	24.7 PK	46.0	-21.3	1.00 H	234	44.8	-20.1
4	325.41	26.8 PK	46.0	-19.2	1.00 H	218	42.7	-15.9
5	495.65	29.0 PK	46.0	-17.0	2.00 H	16	41.0	-12.0
6	597.33	27.7 PK	46.0	-18.3	1.50 H	282	37.3	-9.6

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.

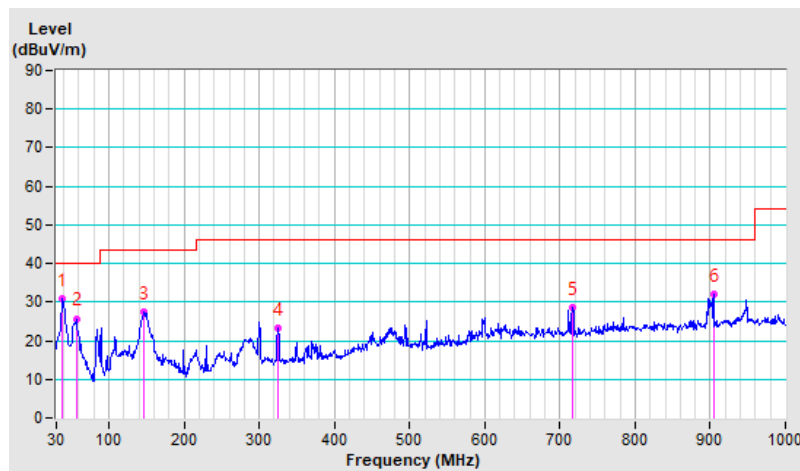


RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	23.1 °C, 63.9% RH
Tested By	Roy Mai		

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	38.71	30.7 PK	40.0	-9.3	1.50 V	360	48.7	-18.0
2	57.23	25.7 PK	40.0	-14.3	1.50 V	360	43.5	-17.8
3	147.10	27.4 PK	43.5	-16.1	1.00 V	219	44.7	-17.3
4	325.73	23.4 PK	46.0	-22.6	1.00 V	138	39.3	-15.9
5	716.86	28.7 PK	46.0	-17.3	1.00 V	219	36.6	-7.9
6	904.19	32.1 PK	46.0	-13.9	2.00 V	192	37.4	-5.3

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.



7.7 Unwanted Emissions above 1 GHz

RF Mode	802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH
Tested By	Roy Mai		

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	56.8 PK	74.0	-17.2	1.45 H	151	29.3	27.5
2	2390.00	43.9 AV	54.0	-10.1	1.45 H	151	16.4	27.5
3	*2412.00	102.5 PK			1.45 H	151	75.0	27.5
4	*2412.00	99.0 AV			1.45 H	151	71.5	27.5
5	4824.00	50.8 PK	74.0	-23.2	2.50 H	308	19.8	31.0
6	4824.00	43.3 AV	54.0	-10.7	2.50 H	308	12.3	31.0
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	55.2 PK	74.0	-18.8	2.13 V	71	27.7	27.5
2	2390.00	42.1 AV	54.0	-11.9	2.13 V	71	14.6	27.5
3	*2412.00	101.7 PK			2.13 V	71	74.2	27.5
4	*2412.00	97.8 AV			2.13 V	71	70.3	27.5
5	4824.00	48.2 PK	74.0	-25.8	1.26 V	261	17.2	31.0
6	4824.00	41.4 AV	54.0	-12.6	1.26 V	261	10.4	31.0

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 ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH
Tested By	Roy Mai		

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	56.8 PK	74.0	-17.2	1.01 H	144	29.3	27.5
2	2390.00	44.0 AV	54.0	-10.0	1.01 H	144	16.5	27.5
3	*2437.00	105.2 PK			1.01 H	144	77.8	27.4
4	*2437.00	101.8 AV			1.01 H	144	74.4	27.4
5	2483.50	57.0 PK	74.0	-17.0	1.01 H	144	29.7	27.3
6	2483.50	44.6 AV	54.0	-9.4	1.01 H	144	17.3	27.3
7	4874.00	50.7 PK	74.0	-23.3	2.54 H	320	19.8	30.9
8	4874.00	43.3 AV	54.0	-10.7	2.54 H	320	12.4	30.9
9	7311.00	47.2 PK	74.0	-26.8	2.22 H	311	11.3	35.9
10	7311.00	40.1 AV	54.0	-13.9	2.22 H	311	4.2	35.9
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	56.4 PK	74.0	-17.6	1.64 V	252	28.9	27.5
2	2390.00	43.2 AV	54.0	-10.8	1.64 V	252	15.7	27.5
3	*2437.00	101.9 PK			1.64 V	252	74.5	27.4
4	*2437.00	98.5 AV			1.64 V	252	71.1	27.4
5	2483.50	56.7 PK	74.0	-17.3	1.64 V	252	29.4	27.3
6	2483.50	43.5 AV	54.0	-10.5	1.64 V	252	16.2	27.3
7	4874.00	48.6 PK	74.0	-25.4	1.25 V	266	17.7	30.9
8	4874.00	41.6 AV	54.0	-12.4	1.25 V	266	10.7	30.9
9	7311.00	45.3 PK	74.0	-28.7	1.45 V	251	9.4	35.9
10	7311.00	38.8 AV	54.0	-15.2	1.45 V	251	2.9	35.9

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	802.11b	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH
Tested By	Roy Mai		

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	105.7 PK			1.47 H	145	78.3	27.4
2	*2462.00	102.4 AV			1.47 H	145	75.0	27.4
3	2483.50	56.0 PK	74.0	-18.0	1.47 H	145	28.7	27.3
4	2483.50	43.8 AV	54.0	-10.2	1.47 H	145	16.5	27.3
5	4924.00	50.5 PK	74.0	-23.5	2.55 H	317	19.5	31.0
6	4924.00	43.2 AV	54.0	-10.8	2.55 H	317	12.2	31.0
7	7386.00	47.3 PK	74.0	-26.7	2.19 H	309	11.0	36.3
8	7386.00	40.1 AV	54.0	-13.9	2.19 H	309	3.8	36.3
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	103.6 PK			2.87 V	115	76.2	27.4
2	*2462.00	100.5 AV			2.87 V	115	73.1	27.4
3	2483.50	55.5 PK	74.0	-18.5	2.87 V	115	28.2	27.3
4	2483.50	43.5 AV	54.0	-10.5	2.87 V	115	16.2	27.3
5	4924.00	49.0 PK	74.0	-25.0	1.26 V	258	18.0	31.0
6	4924.00	41.8 AV	54.0	-12.2	1.26 V	258	10.8	31.0
7	7386.00	45.2 PK	74.0	-28.8	1.43 V	266	8.9	36.3
8	7386.00	39.0 AV	54.0	-15.0	1.43 V	266	2.7	36.3

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.
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 ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH
Tested By	Roy Mai		

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	56.0 PK	74.0	-18.0	1.21 H	136	28.5	27.5
2	2390.00	44.9 AV	54.0	-9.1	1.21 H	136	17.4	27.5
3	*2412.00	106.5 PK			1.21 H	136	79.0	27.5
4	*2412.00	96.5 AV			1.21 H	136	69.0	27.5
5	4824.00	50.6 PK	74.0	-23.4	2.59 H	324	19.6	31.0
6	4824.00	43.1 AV	54.0	-10.9	2.59 H	324	12.1	31.0
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	55.8 PK	74.0	-18.2	1.42 V	254	28.3	27.5
2	2390.00	44.0 AV	54.0	-10.0	1.42 V	254	16.5	27.5
3	*2412.00	103.6 PK			1.42 V	254	76.1	27.5
4	*2412.00	93.7 AV			1.42 V	254	66.2	27.5
5	4824.00	49.2 PK	74.0	-24.8	1.24 V	267	18.2	31.0
6	4824.00	42.0 AV	54.0	-12.0	1.24 V	267	11.0	31.0

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 ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH
Tested By	Roy Mai		

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	1.05 H	144	28.1	27.5
2	2390.00	44.0 AV	54.0	-10.0	1.05 H	144	16.5	27.5
3	*2437.00	106.3 PK			1.05 H	144	78.9	27.4
4	*2437.00	96.3 AV			1.05 H	144	68.9	27.4
5	2483.50	57.0 PK	74.0	-17.0	1.05 H	144	29.7	27.3
6	2483.50	44.2 AV	54.0	-9.8	1.05 H	144	16.9	27.3
7	4874.00	51.0 PK	74.0	-23.0	2.54 H	332	20.1	30.9
8	4874.00	43.4 AV	54.0	-10.6	2.54 H	332	12.5	30.9
9	7311.00	46.9 PK	74.0	-27.1	2.24 H	316	11.0	35.9
10	7311.00	39.7 AV	54.0	-14.3	2.24 H	316	3.8	35.9
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	55.4 PK	74.0	-18.6	1.09 V	175	27.9	27.5
2	2390.00	43.5 AV	54.0	-10.5	1.09 V	175	16.0	27.5
3	*2437.00	103.4 PK			1.09 V	175	76.0	27.4
4	*2437.00	93.6 AV			1.09 V	175	66.2	27.4
5	2483.50	55.6 PK	74.0	-18.4	1.09 V	175	28.3	27.3
6	2483.50	43.8 AV	54.0	-10.2	1.09 V	175	16.5	27.3
7	4874.00	48.9 PK	74.0	-25.1	1.27 V	270	18.0	30.9
8	4874.00	42.1 AV	54.0	-11.9	1.27 V	270	11.2	30.9
9	7311.00	45.8 PK	74.0	-28.2	1.46 V	250	9.9	35.9
10	7311.00	39.2 AV	54.0	-14.8	1.46 V	250	3.3	35.9

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	802.11g	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH
Tested By	Roy Mai		

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	106.8 PK			2.50 H	139	79.4	27.4
2	*2462.00	96.3 AV			2.50 H	139	68.9	27.4
3	2483.50	56.9 PK	74.0	-17.1	2.50 H	139	29.6	27.3
4	2483.50	44.1 AV	54.0	-9.9	2.50 H	139	16.8	27.3
5	4924.00	50.2 PK	74.0	-23.8	2.58 H	313	19.2	31.0
6	4924.00	43.0 AV	54.0	-11.0	2.58 H	313	12.0	31.0
7	7386.00	46.7 PK	74.0	-27.3	2.28 H	304	10.4	36.3
8	7386.00	39.8 AV	54.0	-14.2	2.28 H	304	3.5	36.3
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	104.2 PK			1.70 V	249	76.8	27.4
2	*2462.00	93.8 AV			1.70 V	249	66.4	27.4
3	2483.50	56.4 PK	74.0	-17.6	1.70 V	249	29.1	27.3
4	2483.50	43.4 AV	54.0	-10.6	1.70 V	249	16.1	27.3
5	4924.00	48.9 PK	74.0	-25.1	1.29 V	279	17.9	31.0
6	4924.00	41.6 AV	54.0	-12.4	1.29 V	279	10.6	31.0
7	7386.00	45.0 PK	74.0	-29.0	1.46 V	251	8.7	36.3
8	7386.00	38.3 AV	54.0	-15.7	1.46 V	251	2.0	36.3

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11be (EHT20)	Channel	CH 1 : 2412 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH
Tested By	Roy Mai		

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	56.2 PK	74.0	-17.8	2.79 H	137	28.7	27.5
2	2390.00	44.0 AV	54.0	-10.0	2.79 H	137	16.5	27.5
3	*2412.00	107.5 PK			2.79 H	137	80.0	27.5
4	*2412.00	95.1 AV			2.79 H	137	67.6	27.5
5	4824.00	50.8 PK	74.0	-23.2	2.58 H	335	19.8	31.0
6	4824.00	43.1 AV	54.0	-10.9	2.58 H	335	12.1	31.0
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	55.9 PK	74.0	-18.1	1.43 V	254	28.4	27.5
2	2390.00	43.2 AV	54.0	-10.8	1.43 V	254	15.7	27.5
3	*2412.00	104.5 PK			1.43 V	254	77.0	27.5
4	*2412.00	92.0 AV			1.43 V	254	64.5	27.5
5	4824.00	48.5 PK	74.0	-25.5	1.31 V	271	17.5	31.0
6	4824.00	41.8 AV	54.0	-12.2	1.31 V	271	10.8	31.0

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	802.11be (EHT20)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH
Tested By	Roy Mai		

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	2.22 H	135	27.9	27.5
2	2390.00	43.5 AV	54.0	-10.5	2.22 H	135	16.0	27.5
3	*2437.00	108.1 PK			2.22 H	135	80.7	27.4
4	*2437.00	97.6 AV			2.22 H	135	70.2	27.4
5	2483.50	56.0 PK	74.0	-18.0	2.22 H	135	28.7	27.3
6	2483.50	44.0 AV	54.0	-10.0	2.22 H	135	16.7	27.3
7	4874.00	50.6 PK	74.0	-23.4	2.51 H	327	19.7	30.9
8	4874.00	43.3 AV	54.0	-10.7	2.51 H	327	12.4	30.9
9	7311.00	46.8 PK	74.0	-27.2	2.23 H	323	10.9	35.9
10	7311.00	39.6 AV	54.0	-14.4	2.23 H	323	3.7	35.9
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	55.1 PK	74.0	-18.9	1.01 V	177	27.6	27.5
2	2390.00	43.0 AV	54.0	-11.0	1.01 V	177	15.5	27.5
3	*2437.00	106.5 PK			1.01 V	177	79.1	27.4
4	*2437.00	94.2 AV			1.01 V	177	66.8	27.4
5	2483.50	55.8 PK	74.0	-18.2	1.01 V	177	28.5	27.3
6	2483.50	43.5 AV	54.0	-10.5	1.01 V	177	16.2	27.3
7	4874.00	48.8 PK	74.0	-25.2	1.26 V	269	17.9	30.9
8	4874.00	41.5 AV	54.0	-12.5	1.26 V	269	10.6	30.9
9	7311.00	45.4 PK	74.0	-28.6	1.39 V	254	9.5	35.9
10	7311.00	38.9 AV	54.0	-15.1	1.39 V	254	3.0	35.9

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	802.11be (EHT20)	Channel	CH 11 : 2462 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH
Tested By	Roy Mai		

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	107.4 PK			2.51 H	139	80.0	27.4
2	*2462.00	96.0 AV			2.51 H	139	68.6	27.4
3	2483.50	56.3 PK	74.0	-17.7	2.51 H	139	29.0	27.3
4	2483.50	43.6 AV	54.0	-10.4	2.51 H	139	16.3	27.3
5	4924.00	50.6 PK	74.0	-23.4	2.48 H	315	19.6	31.0
6	4924.00	43.2 AV	54.0	-10.8	2.48 H	315	12.2	31.0
7	7386.00	47.3 PK	74.0	-26.7	2.17 H	301	11.0	36.3
8	7386.00	39.9 AV	54.0	-14.1	2.17 H	301	3.6	36.3
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	105.2 PK			1.75 V	250	77.8	27.4
2	*2462.00	93.8 AV			1.75 V	250	66.4	27.4
3	2483.50	55.9 PK	74.0	-18.1	1.75 V	250	28.6	27.3
4	2483.50	43.2 AV	54.0	-10.8	1.75 V	250	15.9	27.3
5	4924.00	48.4 PK	74.0	-25.6	1.31 V	267	17.4	31.0
6	4924.00	41.6 AV	54.0	-12.4	1.31 V	267	10.6	31.0
7	7386.00	45.3 PK	74.0	-28.7	1.40 V	240	9.0	36.3
8	7386.00	39.1 AV	54.0	-14.9	1.40 V	240	2.8	36.3

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

RF Mode	802.11be (EHT40)	Channel	CH 3 : 2422 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH
Tested By	Roy Mai		

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	56.0 PK	74.0	-18.0	1.00 H	141	28.5	27.5
2	2390.00	44.3 AV	54.0	-9.7	1.00 H	141	16.8	27.5
3	*2422.00	104.6 PK			1.00 H	141	77.1	27.5
4	*2422.00	92.1 AV			1.00 H	141	64.6	27.5
5	4844.00	50.8 PK	74.0	-23.2	2.54 H	324	19.9	30.9
6	4844.00	43.2 AV	54.0	-10.8	2.54 H	324	12.3	30.9
7	7266.00	47.7 PK	74.0	-26.3	2.24 H	324	11.7	36.0
8	7266.00	40.4 AV	54.0	-13.6	2.24 H	324	4.4	36.0
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	55.4 PK	74.0	-18.6	1.85 V	51	27.9	27.5
2	2390.00	43.5 AV	54.0	-10.5	1.85 V	51	16.0	27.5
3	*2422.00	102.0 PK			1.85 V	51	74.5	27.5
4	*2422.00	88.9 AV			1.85 V	51	61.4	27.5
5	4844.00	48.4 PK	74.0	-25.6	1.25 V	274	17.5	30.9
6	4844.00	41.2 AV	54.0	-12.8	1.25 V	274	10.3	30.9
7	7266.00	45.6 PK	74.0	-28.4	1.50 V	240	9.6	36.0
8	7266.00	38.9 AV	54.0	-15.1	1.50 V	240	2.9	36.0

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	802.11be (EHT40)	Channel	CH 6 : 2437 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH
Tested By	Roy Mai		

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	55.7 PK	74.0	-18.3	1.04 H	156	28.2	27.5
2	2390.00	44.6 AV	54.0	-9.4	1.04 H	156	17.1	27.5
3	*2437.00	104.8 PK			1.04 H	156	77.4	27.4
4	*2437.00	92.5 AV			1.04 H	156	65.1	27.4
5	2483.50	56.0 PK	74.0	-18.0	1.04 H	156	28.7	27.3
6	2483.50	44.1 AV	54.0	-9.9	1.04 H	156	16.8	27.3
7	4874.00	51.3 PK	74.0	-22.7	2.52 H	317	20.4	30.9
8	4874.00	43.7 AV	54.0	-10.3	2.52 H	317	12.8	30.9
9	7311.00	46.5 PK	74.0	-27.5	2.27 H	321	10.6	35.9
10	7311.00	39.6 AV	54.0	-14.4	2.27 H	321	3.7	35.9
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	55.2 PK	74.0	-18.8	1.55 V	176	27.7	27.5
2	2390.00	44.0 AV	54.0	-10.0	1.55 V	176	16.5	27.5
3	*2437.00	102.8 PK			1.55 V	176	75.4	27.4
4	*2437.00	90.0 AV			1.55 V	176	62.6	27.4
5	2483.50	55.6 PK	74.0	-18.4	1.55 V	176	28.3	27.3
6	2483.50	43.8 AV	54.0	-10.2	1.55 V	176	16.5	27.3
7	4874.00	48.7 PK	74.0	-25.3	1.27 V	274	17.8	30.9
8	4874.00	41.7 AV	54.0	-12.3	1.27 V	274	10.8	30.9
9	7311.00	45.3 PK	74.0	-28.7	1.49 V	242	9.4	35.9
10	7311.00	38.9 AV	54.0	-15.1	1.49 V	242	3.0	35.9

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	802.11be (EHT40)	Channel	CH 9 : 2452 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 66% RH
Tested By	Roy Mai		

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	105.8 PK			2.20 H	141	78.4	27.4
2	*2452.00	92.8 AV			2.20 H	141	65.4	27.4
3	2483.50	57.0 PK	74.0	-17.0	2.20 H	141	29.7	27.3
4	2483.50	45.0 AV	54.0	-9.0	2.20 H	141	17.7	27.3
5	4904.00	51.1 PK	74.0	-22.9	2.52 H	308	20.1	31.0
6	4904.00	43.5 AV	54.0	-10.5	2.52 H	308	12.5	31.0
7	7356.00	47.2 PK	74.0	-26.8	2.25 H	302	11.0	36.2
8	7356.00	39.9 AV	54.0	-14.1	2.25 H	302	3.7	36.2
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	103.2 PK			2.76 V	118	75.8	27.4
2	*2452.00	90.5 AV			2.76 V	118	63.1	27.4
3	2483.50	55.6 PK	74.0	-18.4	2.76 V	118	28.3	27.3
4	2483.50	44.5 AV	54.0	-9.5	2.76 V	118	17.2	27.3
5	4904.00	48.8 PK	74.0	-25.2	1.24 V	286	17.8	31.0
6	4904.00	42.0 AV	54.0	-12.0	1.24 V	286	11.0	31.0
7	7356.00	45.4 PK	74.0	-28.6	1.45 V	234	9.2	36.2
8	7356.00	39.2 AV	54.0	-14.8	1.45 V	234	3.0	36.2

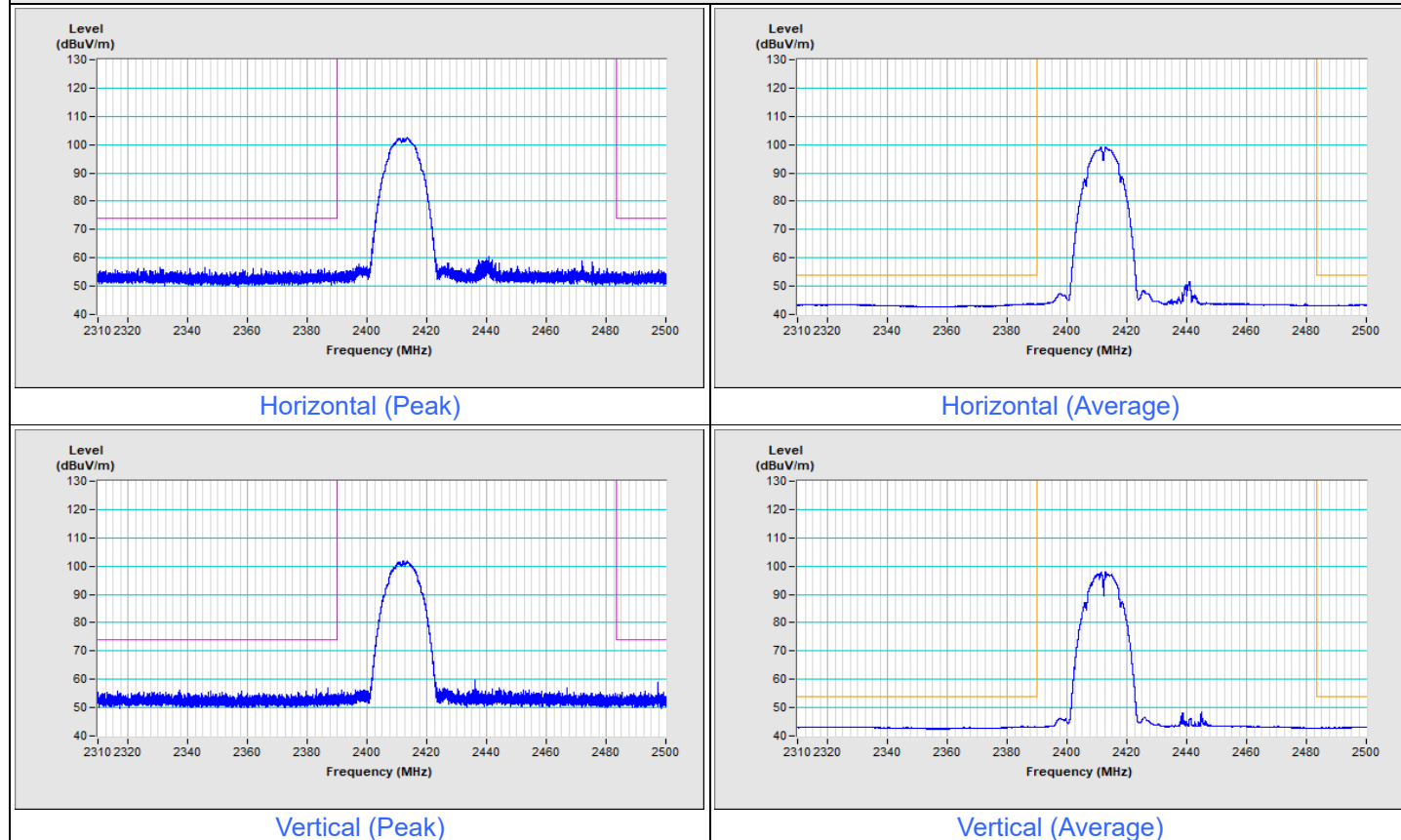
Remarks:

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.

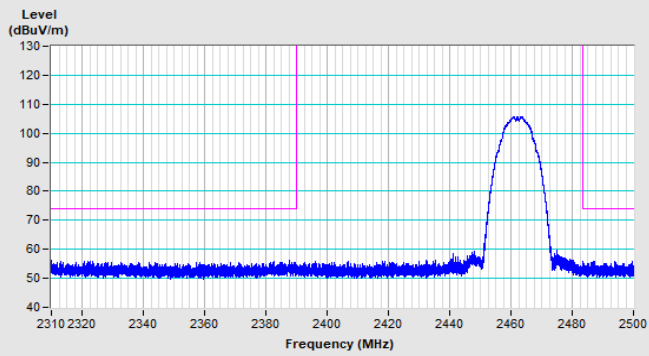
Plot of Band Edge

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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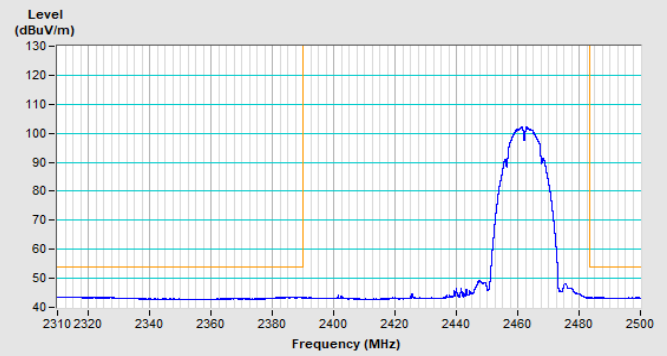
802.11b Channel 1



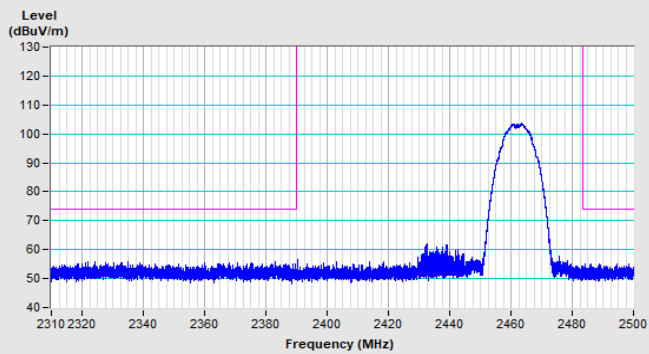
802.11b Channel 11



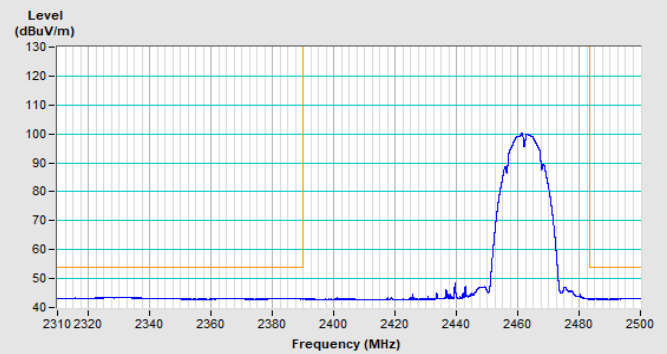
Horizontal (Peak)



Horizontal (Average)



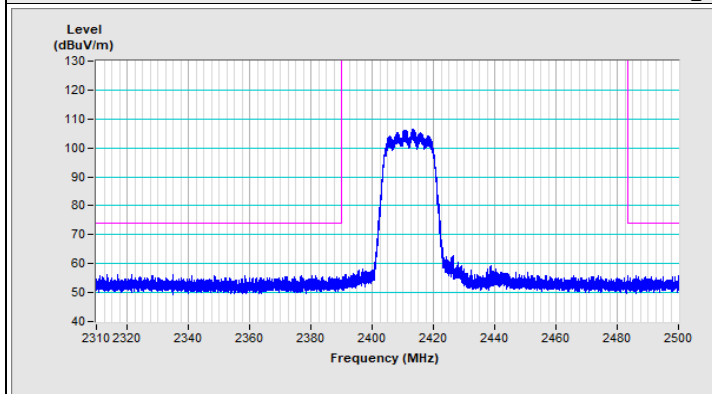
Vertical (Peak)



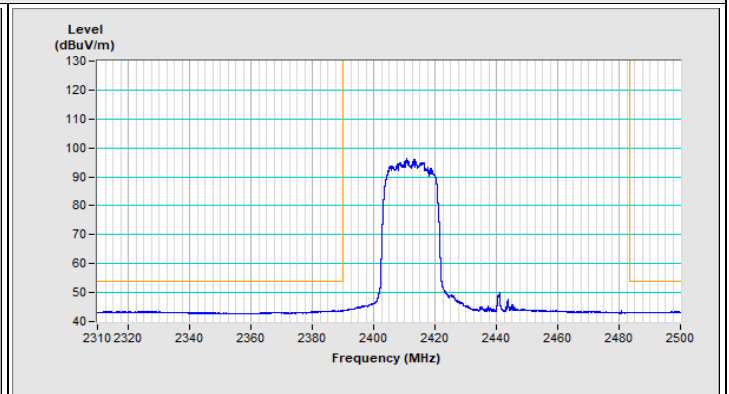
Vertical (Average)

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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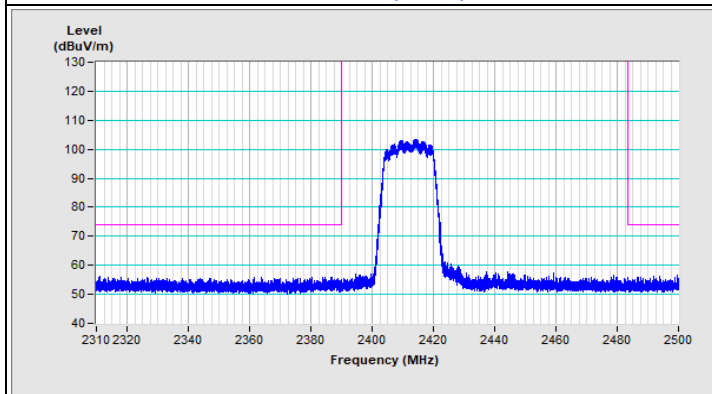
802.11g Channel 1



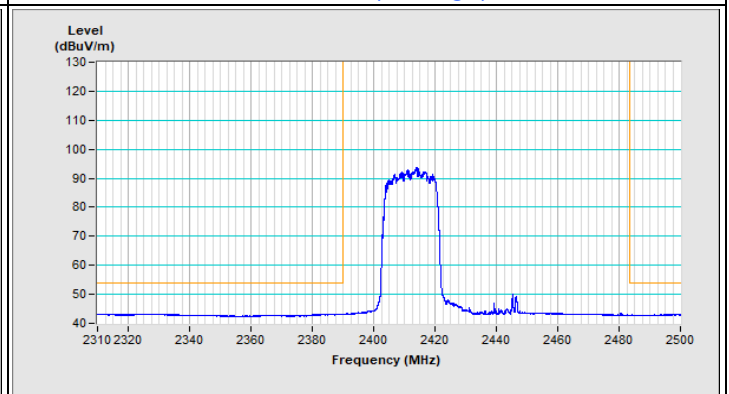
Horizontal (Peak)



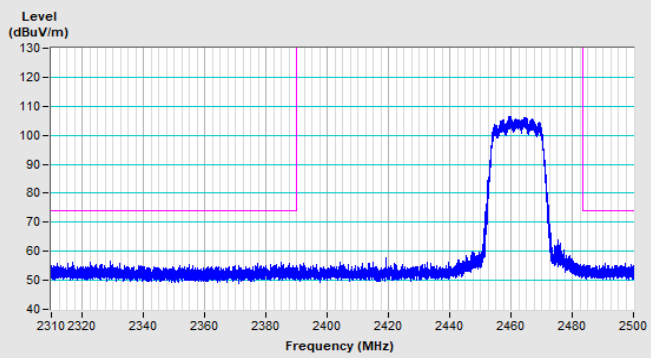
Horizontal (Average)



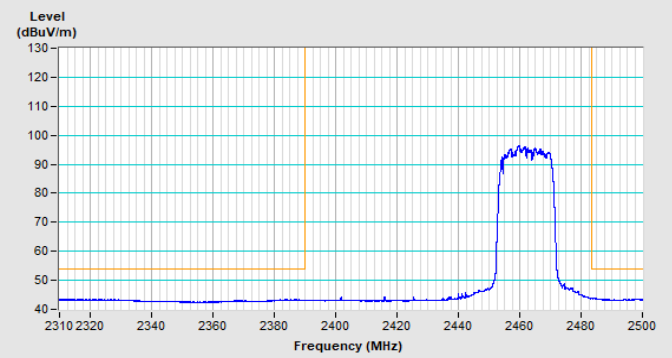
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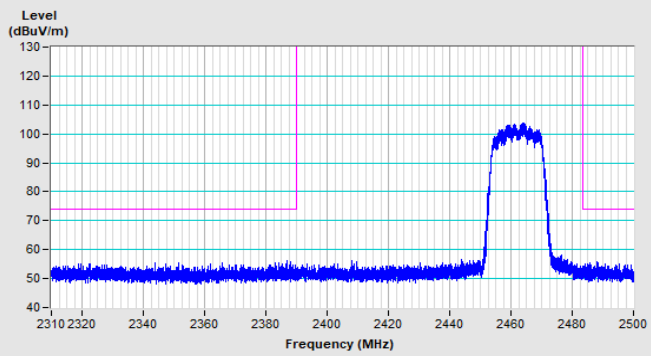
Vertical (Average)

802.11g Channel 11

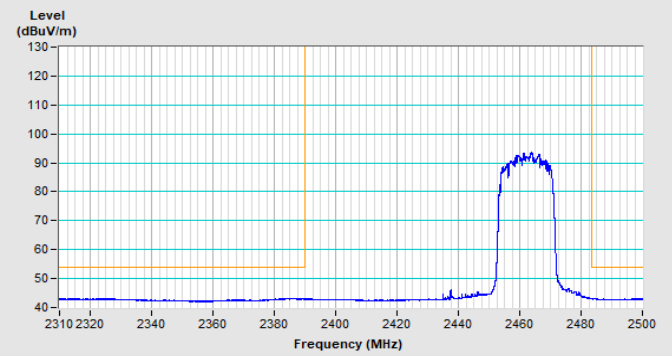
Horizontal (Peak)



Horizontal (Average)



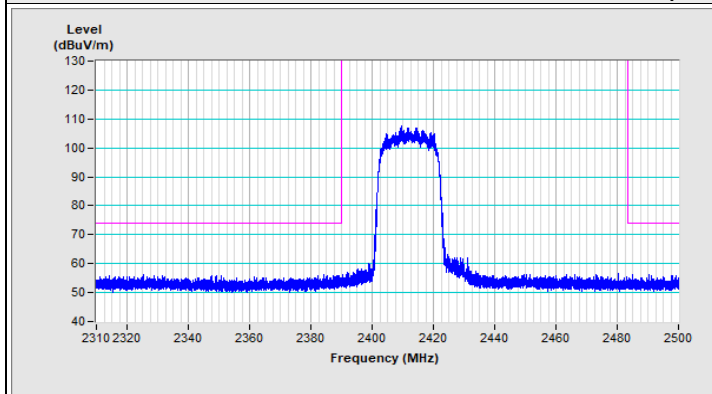
Vertical (Peak)



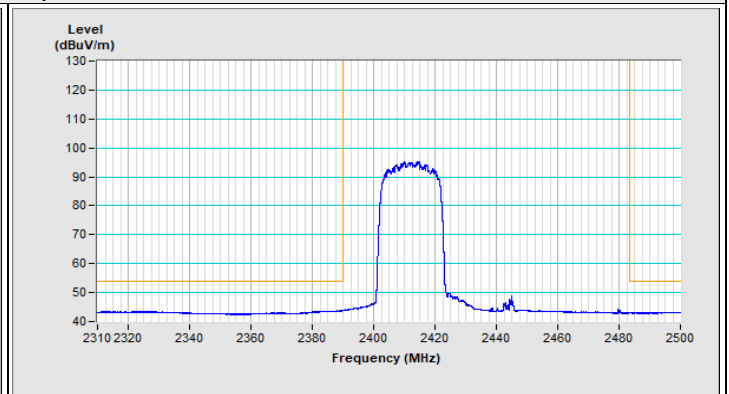
Vertical (Average)

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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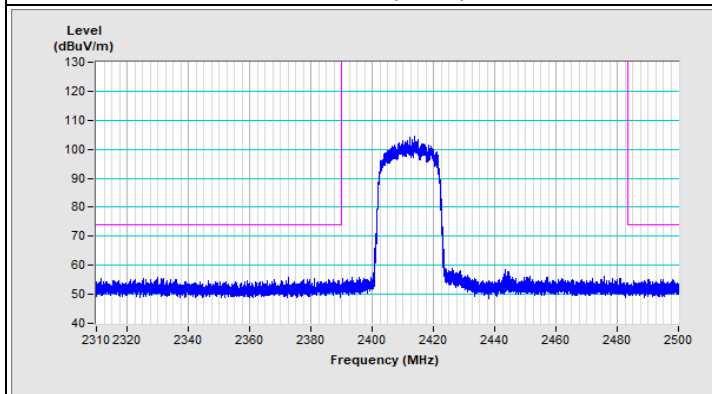
802.11be (EHT20) Channel 1



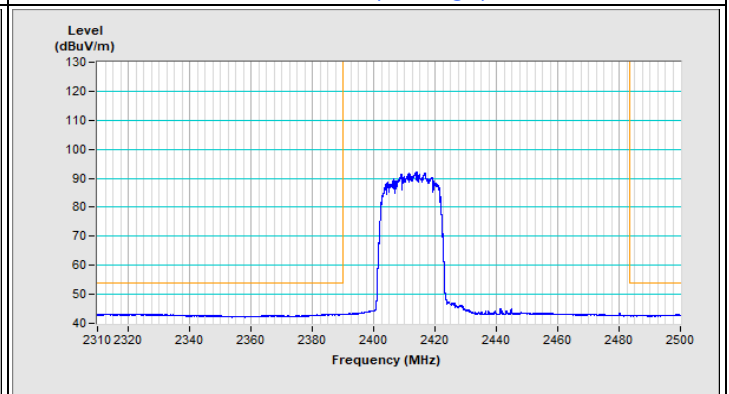
Horizontal (Peak)



Horizontal (Average)

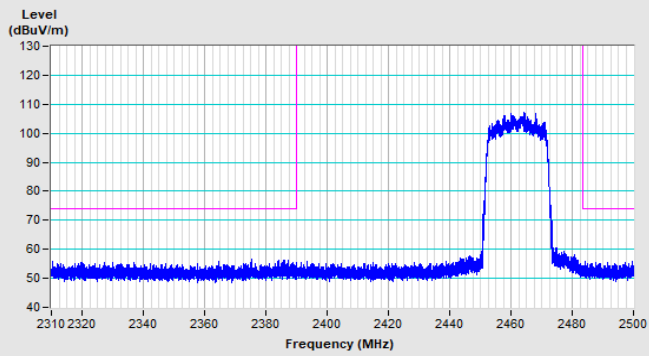


Vertical (Peak)

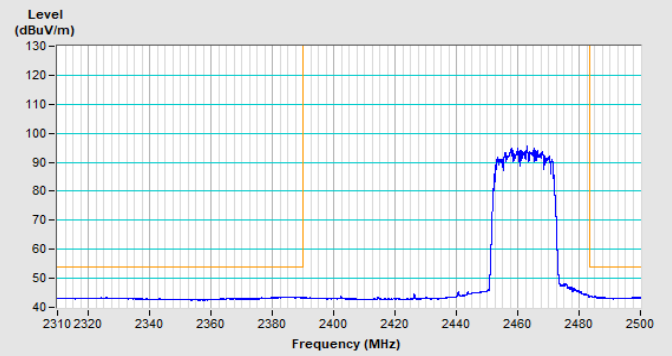


Vertical (Average)

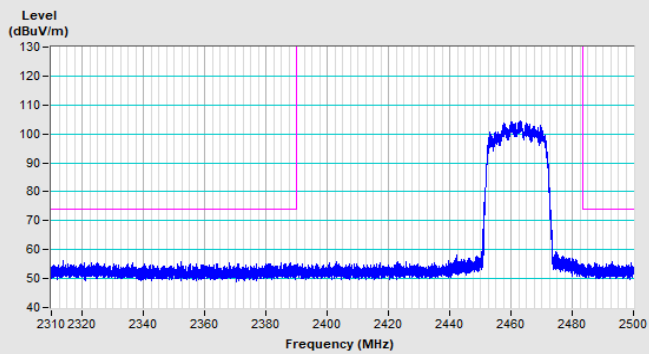
802.11be (EHT20) Channel 11



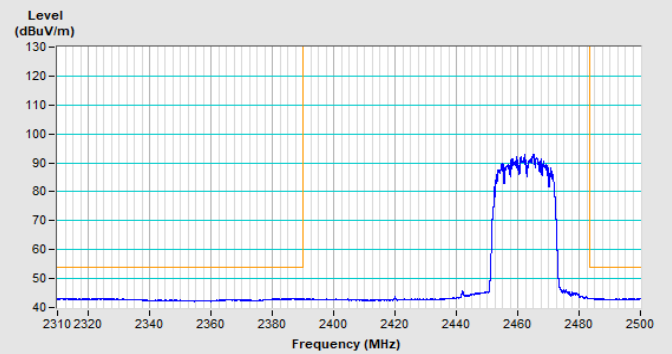
Horizontal (Peak)



Horizontal (Average)



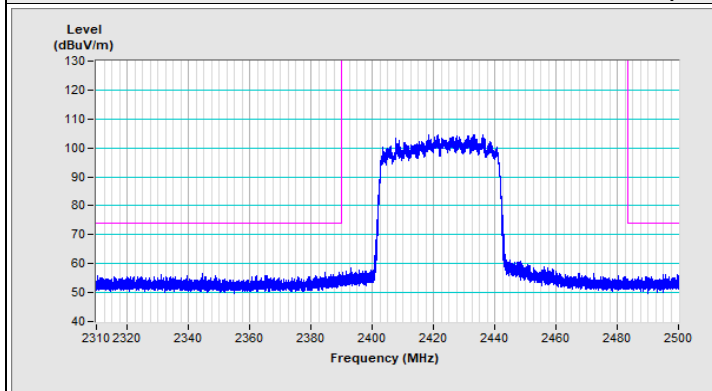
Vertical (Peak)



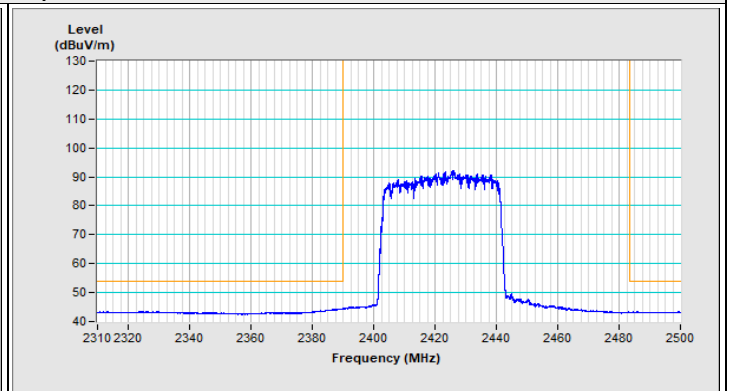
Vertical (Average)

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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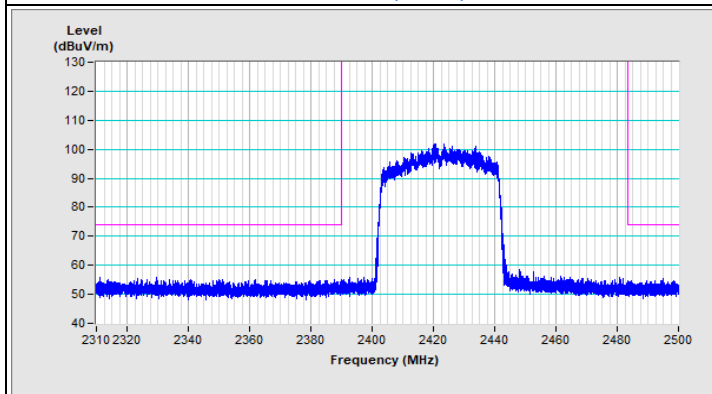
802.11be (EHT40) Channel 3



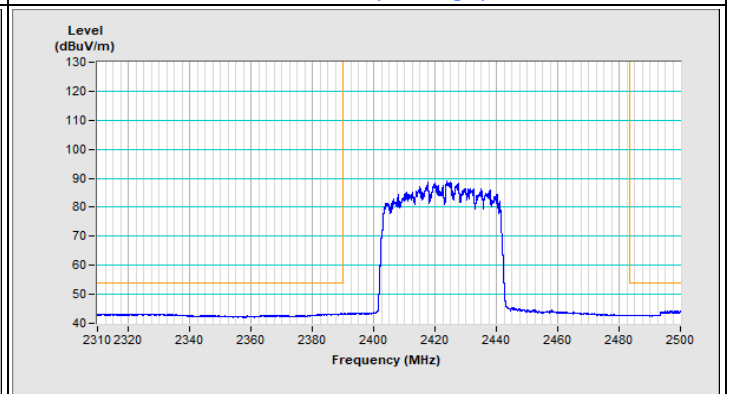
Horizontal (Peak)



Horizontal (Average)

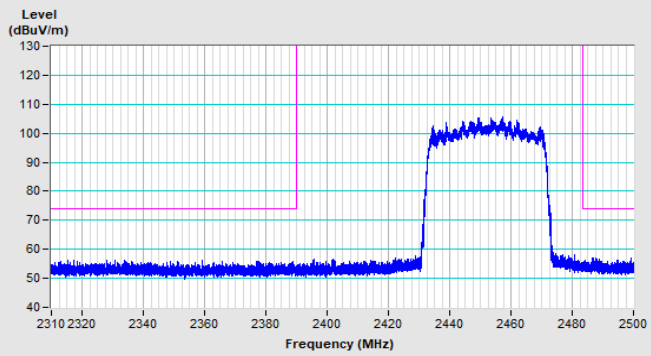


Vertical (Peak)

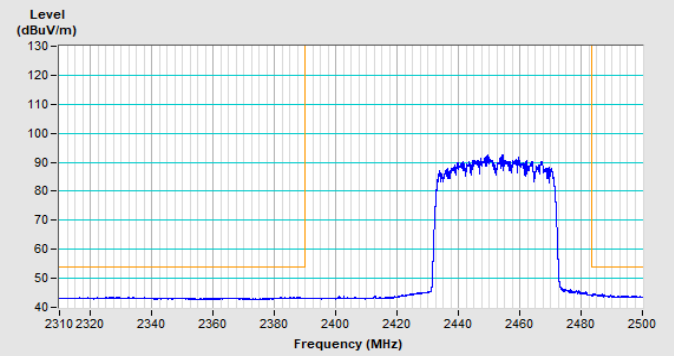


Vertical (Average)

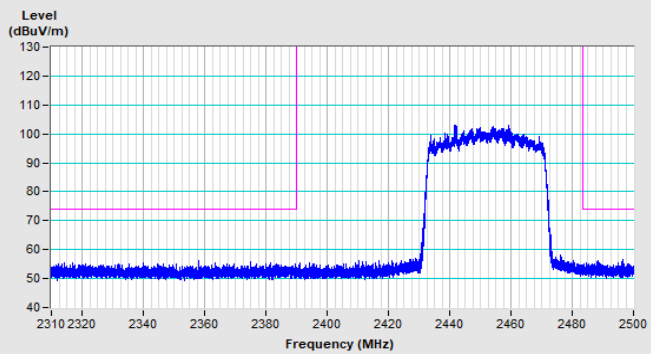
802.11be (EHT40) Channel 9



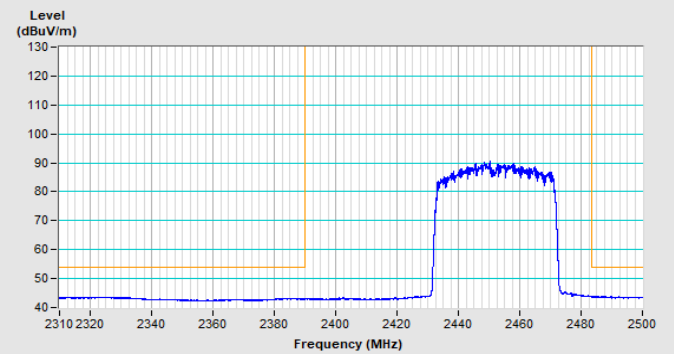
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

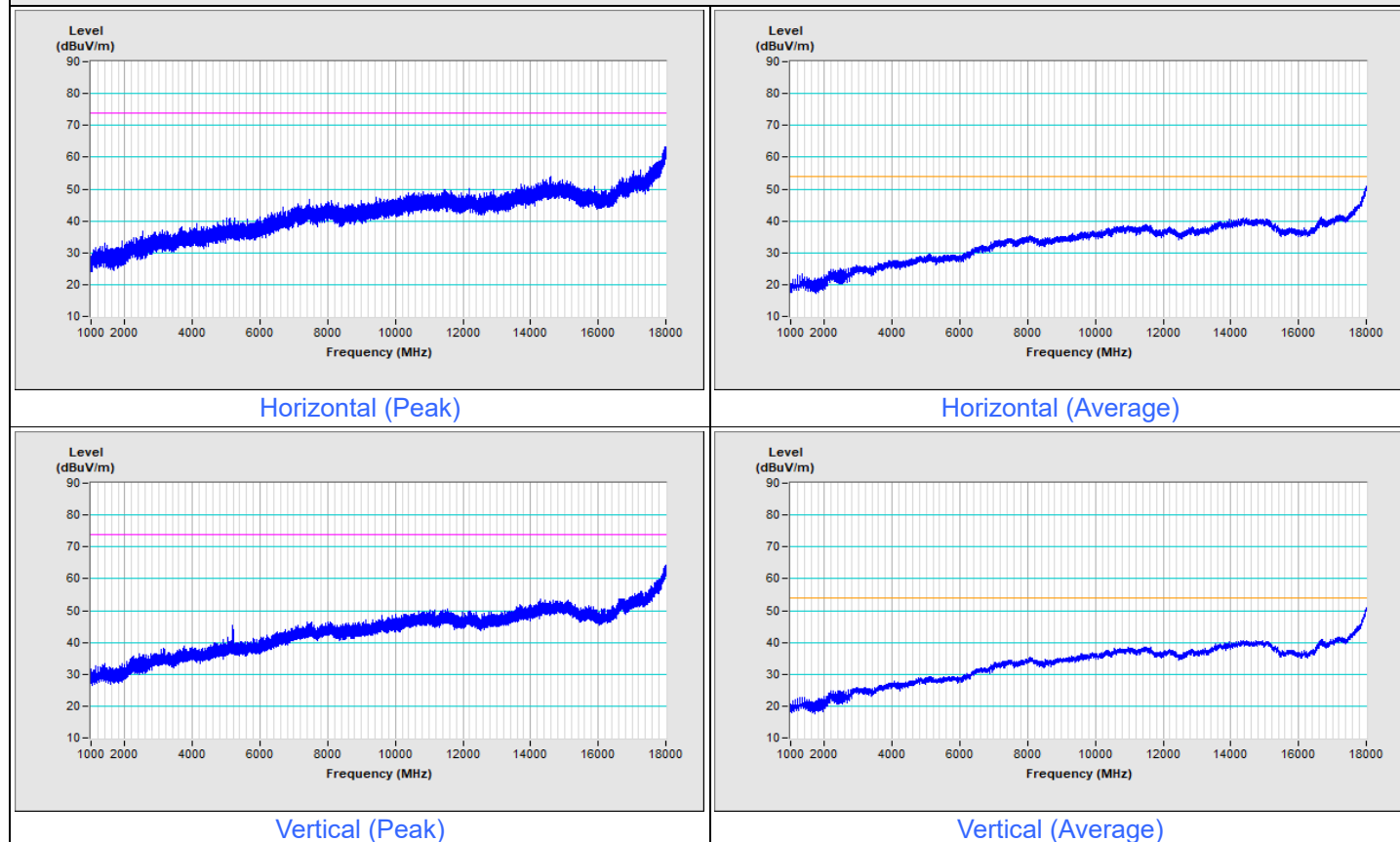


Vertical (Average)

Plot of Other Emission

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11b Channel 1

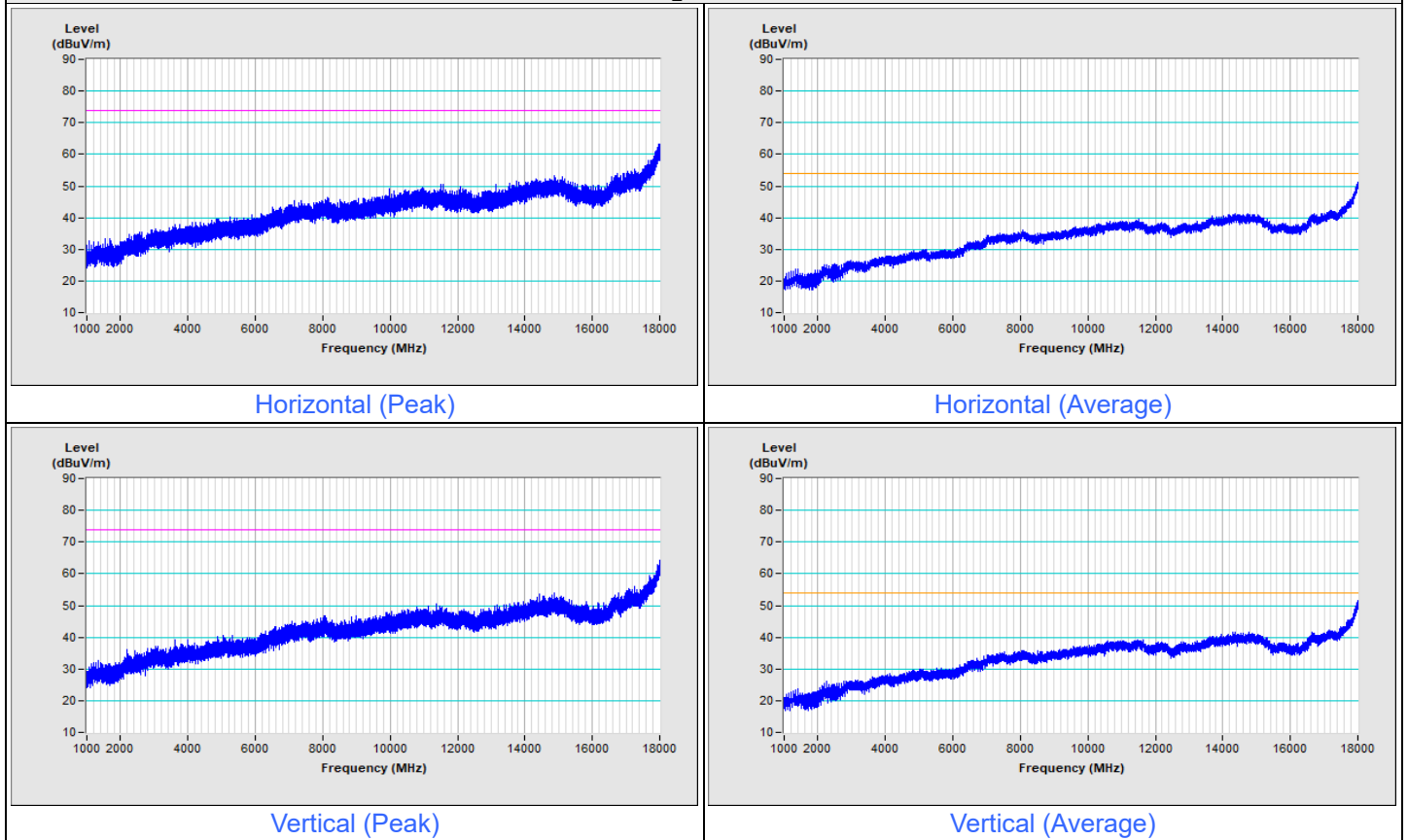


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11g Channel 6

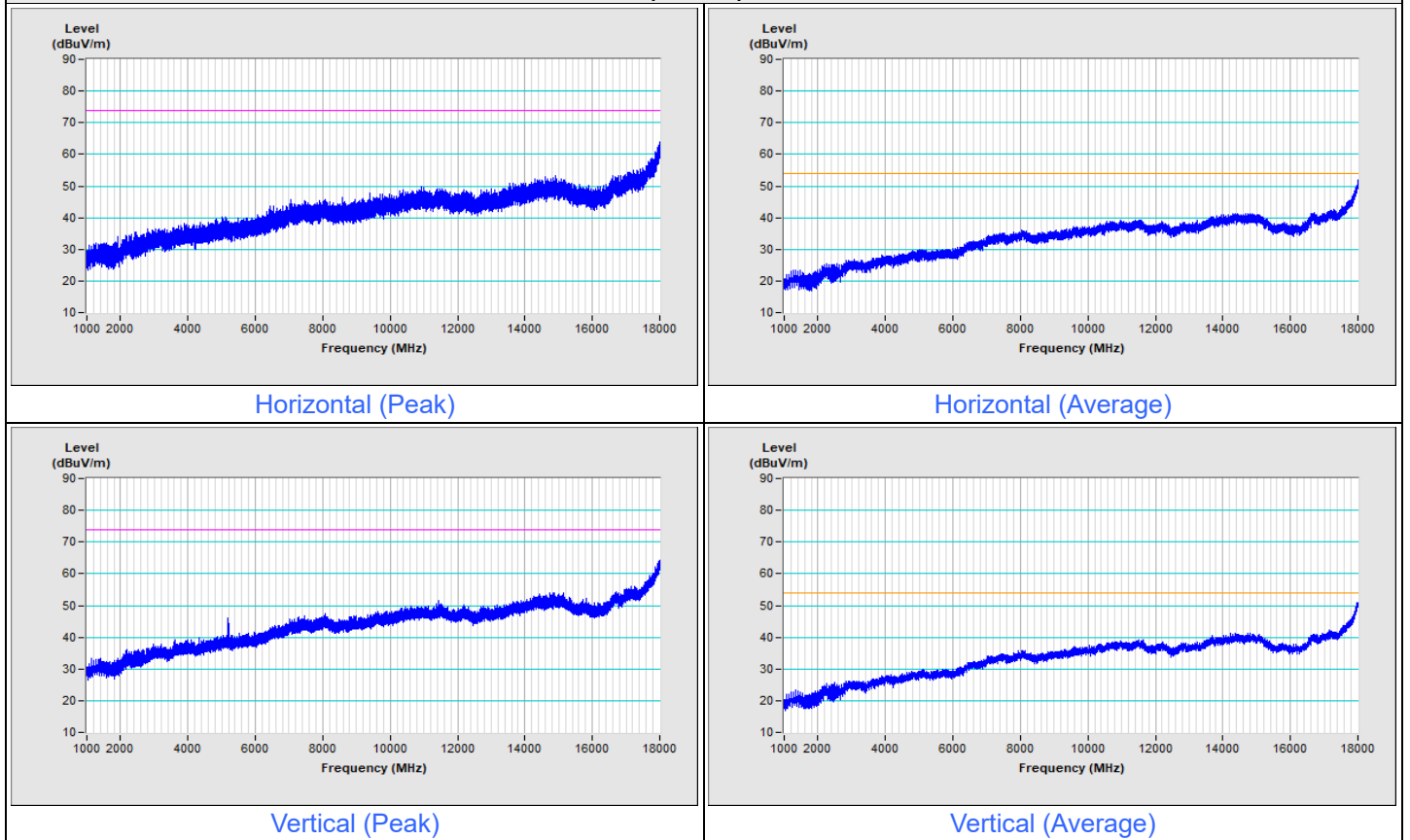


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11be (EHT20) Channel 6

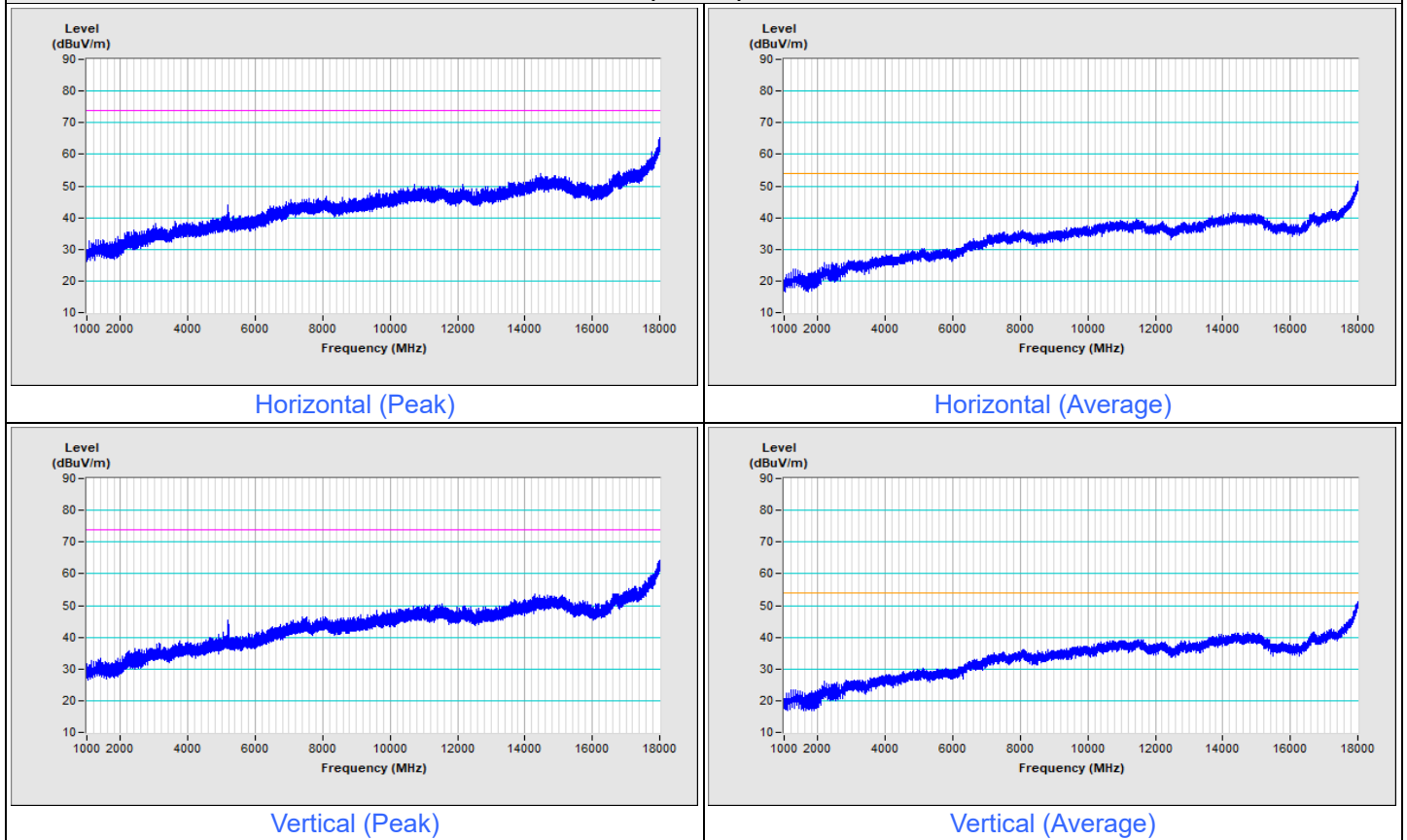


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11be (EHT40) Channel 6



Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 25 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

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

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