

**FCC/IC - TEST REPORT**Report Number : **709502403251-00C** Date of Issue: September 24, 2024Model : **Cra EW**

Product Type : Cradle

FCC ID : 2AMG4-CRAEW

IC : 24652-CRAEW

Applicant : SHINING 3D Tech Co., Ltd.

Address : No.1398 Xiangbin Road, Wenyan, Xiaoshan, Hangzhou,
Zhejiang, China

Manufacturer : SHINING 3D Tech Co., Ltd.

Address : No.1398 Xiangbin Road, Wenyan, Xiaoshan, Hangzhou,
Zhejiang, ChinaTest Result : ☒ **Positive** ☐ **Negative**Total pages including
Appendices : 78

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1	TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch No.16 Lane, 1951 Du Hui Road, Shanghai 201108, P.R. China
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FCC Registration No.:	820234
FCC Designation Number:	CN1183
ISED CAB identifier	CN0101
IC Registration No.:	31668



3 Description of the Equipment under Test

Product: Cradle

Model no.: Cra EW

Hardware Version Identification No. (HVIN) Cra EW

Product Marketing Name (PMN) Cra EW

FCC ID: 2AMG4-CRAEW

IC: 24652-CRAEW

Options and accessories: NA

Rating: DC 5V, 3A

RF Transmission Frequency: For WPT:
111-205KHz

For 5G Wi-Fi:
5180~5240 MHz (U-NII-1)
5745~5825 MHz (U-NII-3)

No. of Operated Channel:

For 5G Wi-Fi:

Band (GHz)	Operating Channel Number	Channel center frequencies for 20MHz bandwidth (MHz)
5.15GHz~5.25GHz	36	5180
	40	5200
	44	5220
	48	5240
5.725GHz~5.825GHz	149	5745
	153	5765
	157	5785
	161	5805
	165	5825

Band (GHz)	Operating	Channel center
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	Channel Number	frequencies for 40MHz bandwidth (MHz)
5.15GHz~5.25GHz	38	5190
	46	5230
5.725GHz~5.825GHz	151	5755
	159	5795

Band (GHz)	Operating Channel Number	Channel center frequencies for 80MHz bandwidth (MHz)
5.15GHz~5.25GHz	42	5210
5.725GHz~5.825GHz	155	5775

Modulation: For WPT:
ASK

For 5G Wi-Fi:
Orthogonal Frequency Division Multiplexing (OFDM) for 802.11a/n/ac/ax

Hardware Version: 3

Software Version: /

Data speed: 5G Wi-Fi:
SISO: 11a 6 ~ 54Mbps,
11n HT20 6.5 ~ 72.2Mbps, 11n HT 40 13.5 ~ 150Mbps,
11ac VHT20 6.5 ~ 86.7Mbps, 11ac VHT40 13.5 ~ 200Mbps,
11ac VHT80 29.3 ~ 433.3Mbps
11ax HE20 7.313 ~ 143.382Mbps, 11ax HE40 14.625 ~ 286.765Mbps,
11ax HE80 30.625 ~ 600.490Mbps
MIMO: 11a 6 ~ 54Mbps,
11n HT20 13 ~ 144.4Mbps, 11n HT 40 27 ~ 300Mbps,
11ac VHT20 13 ~ 173.3Mbps, 11ac VHT40 27 ~ 400Mbps,
11ac VHT80 58.5 ~ 866.7Mbps
11ax HE20 14.625 ~ 286.765Mbps, 11ax HE40 29.250 ~ 573.529Mbps,
11ax HE80 61.250 ~ 1200.980Mbps

Antenna Type: For WPT:
Coil antenna

For 5G Wi-Fi:
Capacitor Antenna

Antenna Gain: For 5G Wi-Fi:
Antenna1: 4.26 dBi, Antenna2: 3.09 dBi



Directional gain:	For 5GHz Wi-Fi output power & power spectral density: 6.71 dBi Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi G1 = 4.26 dBi, G2 = 3.09 dBi, NANT = 2 So Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi = $10 \log[(10^{4.26/20} + 10^{3.09/20})^2 / 2]$ dBi = 6.71 dBi The Equipment supports MIMO and does not support beamforming and CDD modulation, and all antennas have the different gain, According to KDB662911 D01 chapter F d) (i) : Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.],
Description of the EUT:	The Equipment Under Test (EUT) is a Cradle with Wi-Fi Module and Wireless Power Transmission function. The EUT support Wireless Power Transmission function operated at 111-205KHz and Wi-Fi operated at 5GHz.
Test sample no.:	SHA-815450-2 (Radiated sample) SHA-815450-1 (Conducted sample)

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment, antenna gain or any information supplied.



4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart E, 2021 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart E - Unlicensed National Information Infrastructure Devices
RSS-Gen Issue 5 Amendment 2 February 2021	General Requirements for Compliance of Radio Apparatus
RSS-247 Issue 3 August 2023	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE-LAN) Devices

Test Method:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices



5 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart E & RSS-247 Issue 3/RSS-Gen Issue 5						
Test Condition		Pages	Test Site	Test Result		
				Pass	Fail	N/A
§15.207 & RSS-GEN 8.8	Conducted emission AC power port	15-17	Site 1	☒	☐	☐
§15.407(a)(2), (e) & RSS-247 6.2.1.2, RSS-247 6.2.2.1, RSS-247 6.2.3.1, RSS-247 6.2.4.2, RSS-Gen 6.7	Emission bandwidth	18-19	Site 1	☒	☐	☐
15.407(a)(1)(2)(3) & RSS-247 6.2	Maximum Conducted Output Power and EIRP	20-21	Site 1	☒	☐	☐
15.407(a)(1)(2)(3) & RSS-247 6.2	Maximum Power Spectral Density	22-23	Site 1	☒	☐	☐
§15.407(g) & RSS-GEN 6.11	Frequencies Stability	24	Site 1	☒	☐	☐
§15.407(b)(1), 15.407(b)(2), 15.407(b)(3), 15.407(b)(4), 15.407(b)(8), 15.407(b)(9), 15.209 & RSS-247 6.2 RSS-GEN 8.9	Unwanted Emissions	25-73	Site 1	☒	☐	☐
§15.203 & RSS-Gen 6.8	Antenna requirement	See note 1		☒	☐	☐

Remark 1: The EUT only operation at 5G Wi-Fi UNII Band (5180MHz-5240MHz, 5745MHz-5825MHz).

Note 1: The EUT uses two capacitor antenna, which gain is Antenna1: 4.26 dBi, Antenna2: 3.09 dBi. In accordance to §15.203 and RSS-Gen 6.8, It is considered sufficiently to comply with the provisions of this section.

15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AMG4-CRAEW, IC: 24652-CRAEW complies with Section 15.207, 15.209, 15.205, 15.407 of the FCC Part 15, Subpart C rules, Subpart E Rules and RSS-216, ICES-001, RSS-247, RSS-GEN.

This report is only for 5GHz Wi-Fi, for the WPT test report please refer to 709502403251-00B. The TX and RX range is 5180MHz-5240MHz, 5745MHz-5825MHz.

We tested it and listed the worst data in this report.

SUMMARY:

All tests according to the regulations cited on page 8 were

■ - Performed

□ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: May 21, 2024

Testing Start Date: June 27, 2024

Testing End Date: September 12, 2024

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Reviewed by:

Prepared by:

Tested by:



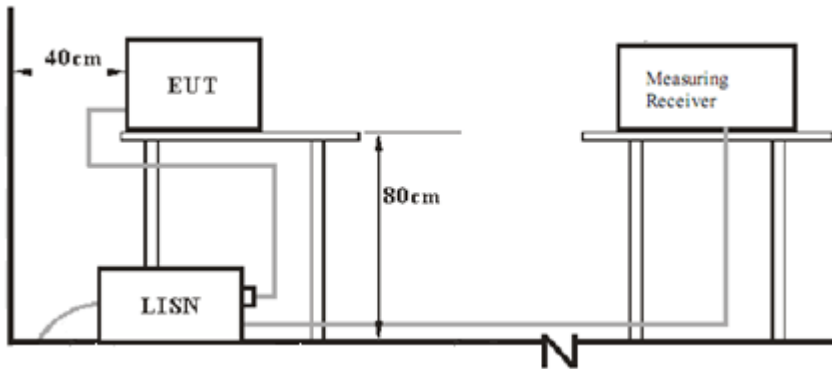
Hui TONG
Review Engineer

Wenqiang LU
Project Engineer

Chengjie GUO
Test Engineer

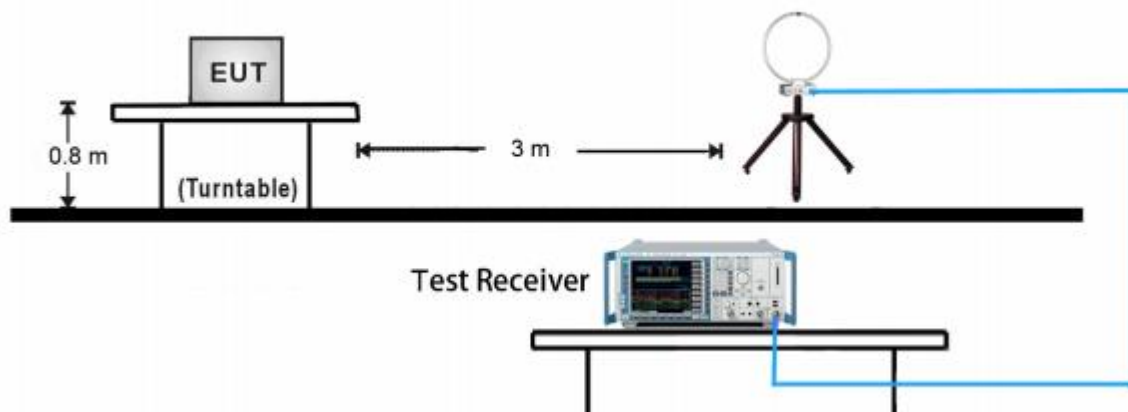
7 Test Setups

7.1 AC Power Line Conducted Emission test setups

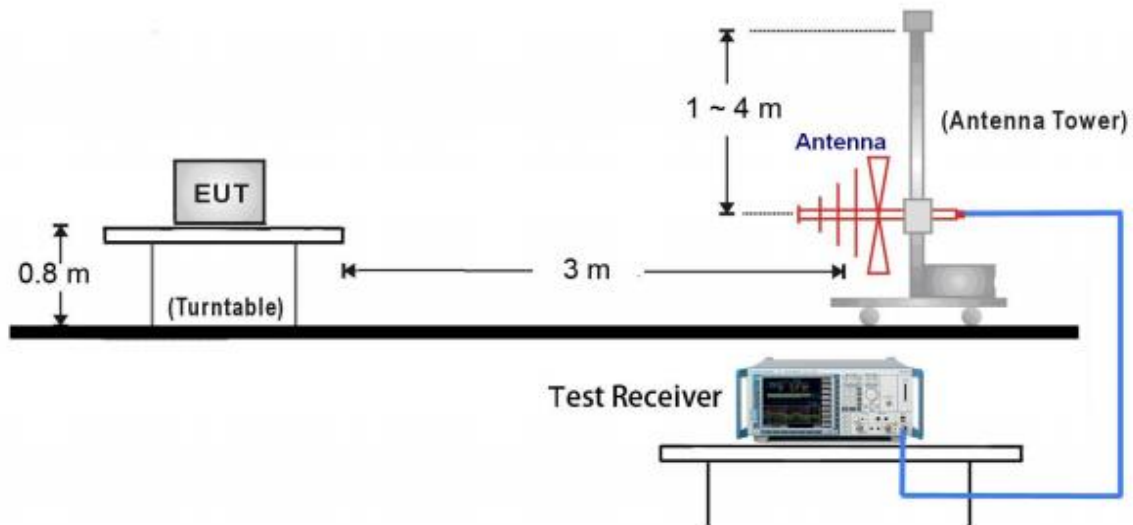


7.2 Radiated test setups

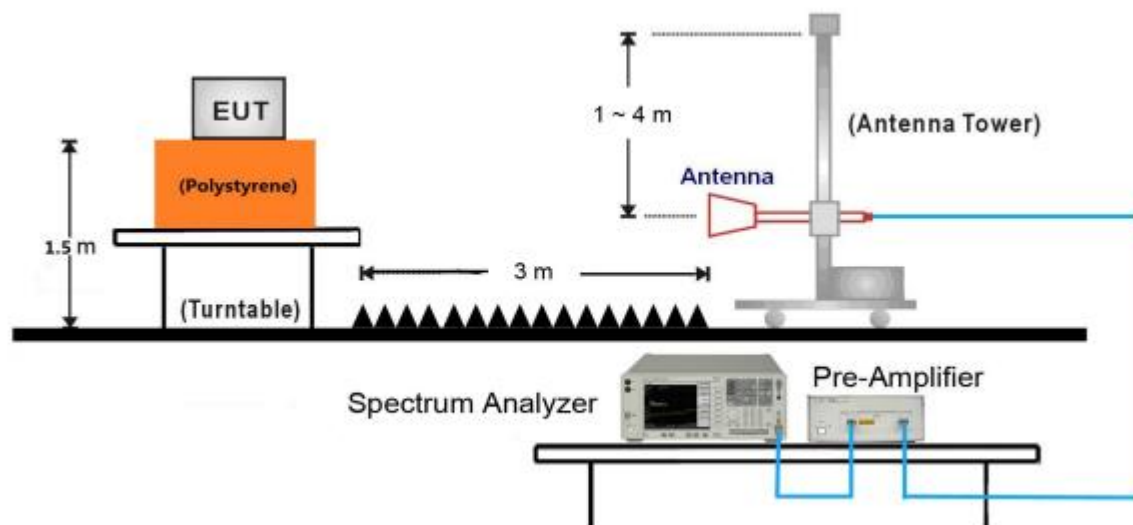
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:

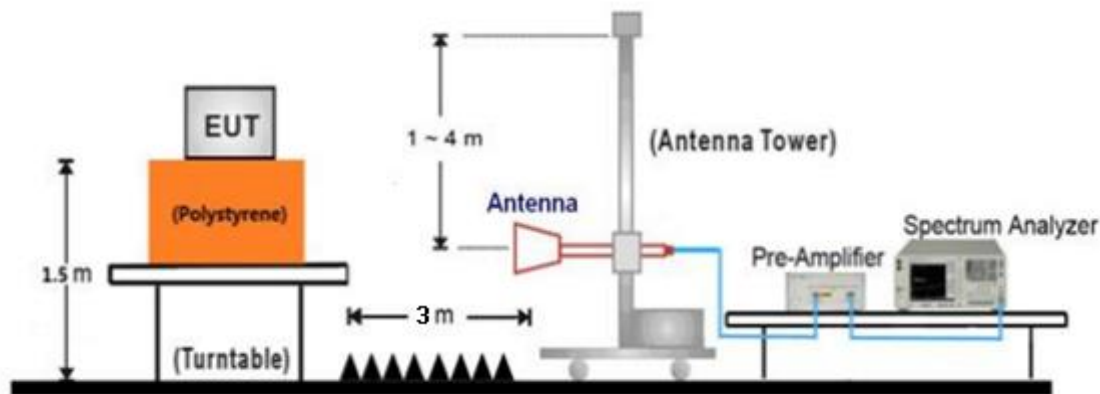


1GHz ~ 18GHz Test Setup:

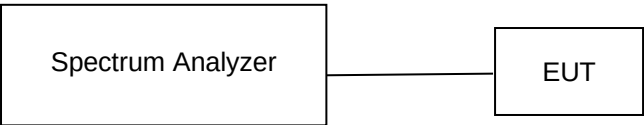




18GHz ~ 40GHz Test Setup:



7.3 Conducted RF test setups



8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenove	E470	PF-OU5TS7 17/09

Test software: SecureCRT.exe, which used to control the EUT in continues transmitting mode.

The system was configured to channel:

Test Mode	Channel (MHz)		
802.11a, 802.11n HT20 802.11ac VHT20 802.11ax HE20	5G WIFI-Band 1		
	CH36 (5180MHz)	CH40 (5200MHz)	CH48 (5240MHz)
	5G WIFI-Band 3		
	CH149 (5745MHz),	CH157 (5785MHz)	CH165 (5825MHz)

Test Mode	Channel (MHz)	
802.11n HT40 802.11ac VHT40 802.11ax HE40	5G WIFI-Band 1	
	CH38 (5190MHz)	CH46 (5230MHz)
	5G WIFI-Band 4	
	CH151 (5755MHz)	CH159 (5795MHz)

Test Mode	Channel (MHz)
802.11ac VHT80 802.11ax HE80	5G WIFI-Band 1
	CH42 (5210MHz)
	5G WIFI-Band 4
	CH155 (5775MHz)

The pre-test has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

	Modulation Type	Data Rate	Index Value (Power level setting)
SISO	802.11a OFDM	6Mbps	12
	802.11n (HT20): OFDM	MCS0 (6.5Mbps)	12
	802.11n (HT40): OFDM	MCS0 (13.5Mbps)	10
	802.11ac (VHT20): OFDM	11ac 6.5Mbps	12
	802.11ac (VHT40): OFDM	11ac 13.5Mbps	10
	802.11ac (VHT80): OFDM	11ac 29.3Mbps	12
	802.11ax (HE20): OFDM	11ax 7.313Mbps	12
	802.11ax (HE40): OFDM	11ax 14.625Mbps	10
	802.11ax (HE80): OFDM	11ax 30.625Mbps	12



	Modulation Type	Data Rate	
MIMO	802.11a OFDM	6Mbps	10
	802.11n (HT20): OFDM	MCS0 (13Mbps)	10
	802.11n (HT40): OFDM	MCS0 (27Mbps)	11
	802.11ac (VHT20): OFDM	11ac 13Mbps	10
	802.11ac (VHT40): OFDM	11ac 27Mbps	11
	802.11ac (VHT80): OFDM	11ac 58.5Mbps	11
	802.11ax (HE20): OFDM	11ax 14.625Mbps	10
	802.11ax (HE40): OFDM	11ax 29.250Mbps	11
	802.11ax (HE80): OFDM	11ax 61.250Mbps	11

9 Technical Requirement

9.1 Conducted Emission

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. An EMI test receiver is used to test the emissions from both sides of AC line

Limit

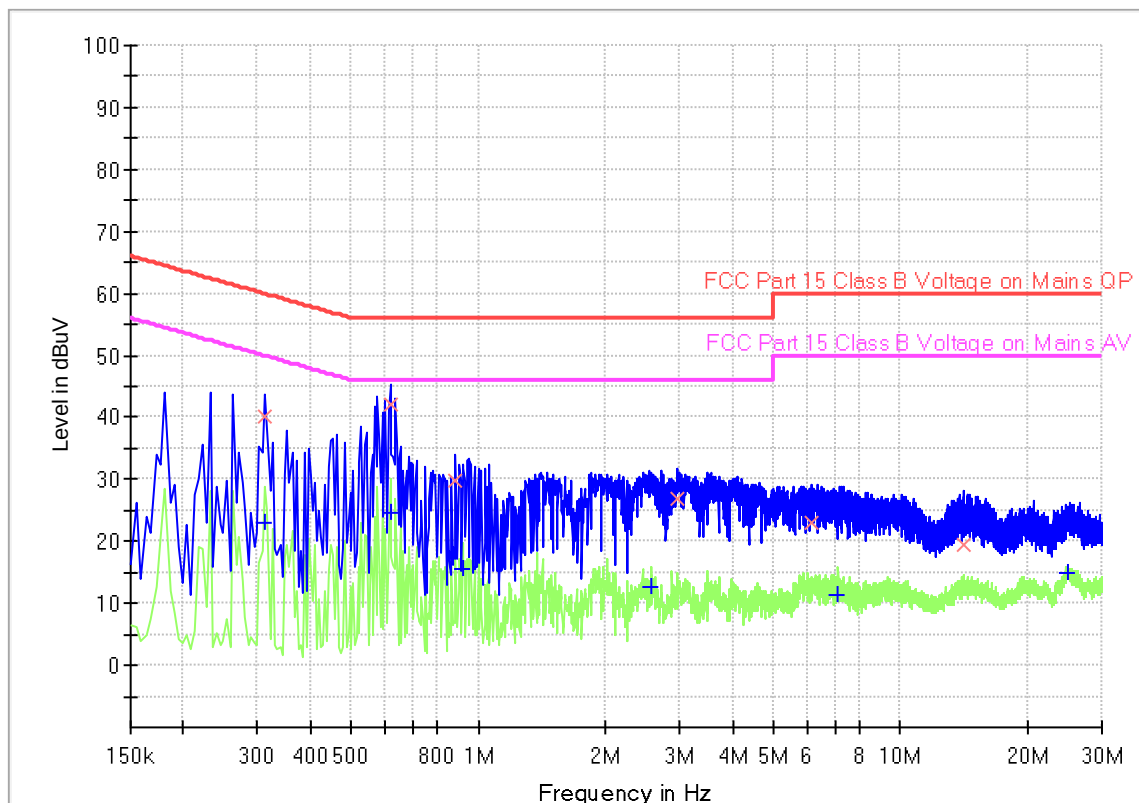
According to §15.207 & RSS-GEN 8.8, conducted emissions limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

*Decreasing linearly with logarithm of the frequency

Conducted Emission

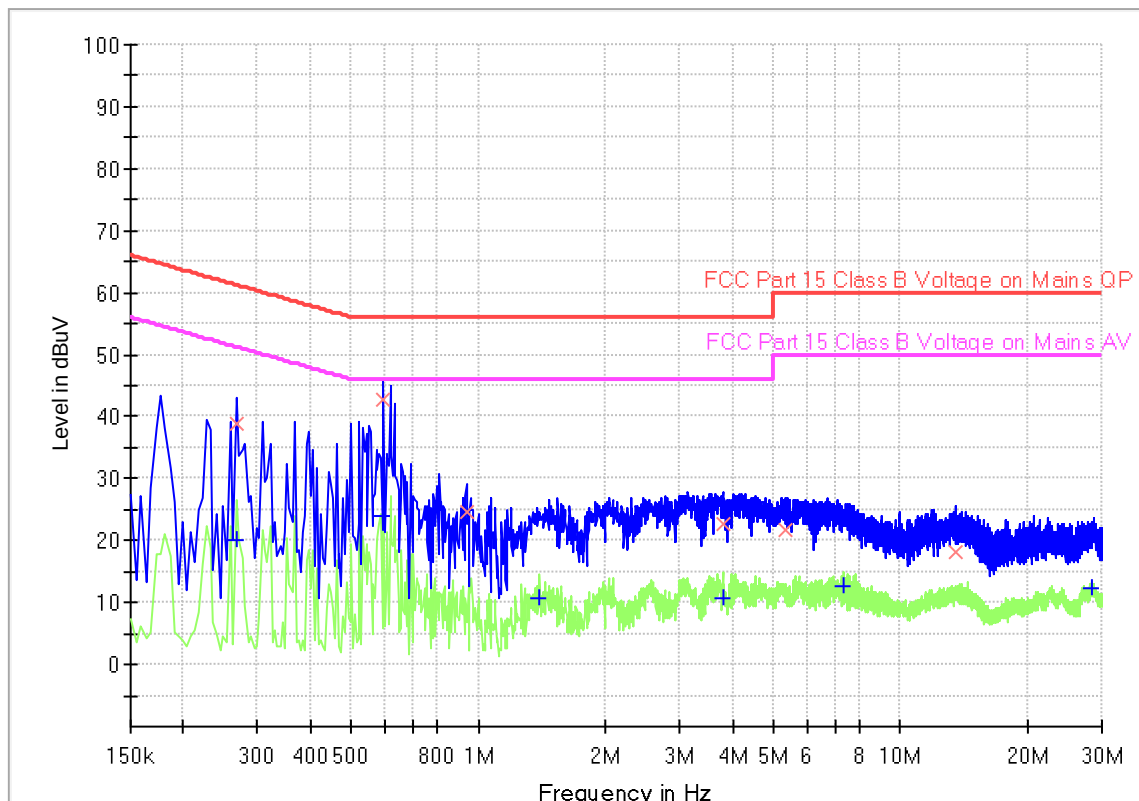
Product Type : Cradle
 M/N : Cra EW
 Operating Condition : Mode 1: Tx_802.11ax 20, 5785MHz MIMO
 Test Specification : L-Line
 Comment : AC 120V/60Hz



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.312000	---	22.96	49.92	26.96	1000.0	9.000	L1	19.5
0.312000	40.13	---	59.92	19.79	1000.0	9.000	L1	19.5
0.618000	---	24.69	46.00	21.31	1000.0	9.000	L1	19.5
0.618000	42.07	---	56.00	13.93	1000.0	9.000	L1	19.5
0.883500	29.90	---	56.00	26.10	1000.0	9.000	L1	19.5
0.919500	---	15.67	46.00	30.33	1000.0	9.000	L1	19.5
2.562000	---	12.54	46.00	33.46	1000.0	9.000	L1	19.5
2.962500	26.90	---	56.00	29.10	1000.0	9.000	L1	19.5
6.148500	22.91	---	60.00	37.09	1000.0	9.000	L1	19.6
7.129500	---	11.38	50.00	38.62	1000.0	9.000	L1	19.7
14.181000	19.57	---	60.00	40.43	1000.0	9.000	L1	20.0
24.940500	---	15.00	50.00	35.00	1000.0	9.000	L1	20.9

Product Type : Cradle
 M/N : Cra EW
 Operating Condition : Mode 1: Tx_802.11ax 20, 5785MHz MIMO
 Test Specification : N-Line
 Comment : AC 120V/60Hz



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.267000	---	20.07	51.21	31.14	1000.0	9.000	N	19.5
0.267000	38.97	---	61.21	22.24	1000.0	9.000	N	19.5
0.595500	---	23.89	46.00	22.11	1000.0	9.000	N	19.4
0.595500	42.68	---	56.00	13.32	1000.0	9.000	N	19.4
0.937500	24.56	---	56.00	31.44	1000.0	9.000	N	19.5
1.396500	---	10.73	46.00	35.27	1000.0	9.000	N	19.5
3.786000	22.61	---	56.00	33.39	1000.0	9.000	N	19.6
3.786000	---	10.63	46.00	35.37	1000.0	9.000	N	19.6
5.316000	21.61	---	60.00	38.39	1000.0	9.000	N	19.6
7.318500	---	12.56	50.00	37.44	1000.0	9.000	N	19.6
13.479000	18.05	---	60.00	41.95	1000.0	9.000	N	19.8
28.270500	---	12.43	50.00	37.57	1000.0	9.000	N	20.7

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

9.2 Emission bandwidth

1、 Test Method of 26dB Bandwidth

According to KDB789033 D02

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Limit: No limit

2、 Test Method of 6dB Bandwidth

According to KDB789033 D02

- a) Set RBW = 100KHz
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Limit: $\geq 500\text{KHz}$

3、 Test Method of 99% Bandwidth

According to KDB789033 D02

- a) Set center frequency to the nominal EUT channel center frequency
- b) Set span = 1.5 times to 5.0 times the OBW.
- c) Set RBW = 1 % to 5 % of the OBW
- d) Set VBW $\geq 3 \cdot \text{RBW}$
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99 % power bandwidth function of the instrument (if available).
- g) If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Limit: No limit



26dB Bandwidth Test Result:

Test data should be referred to Appendix A for 709502403251-00C.

6dB Bandwidth Test Result:

Test data should be referred to Appendix A for 709502403251-00C.

99% Bandwidth Test Result

Test data should be referred to Appendix A for 709502403251-00C.

9.3 Maximum conducted output power and EIRP

Test Method

According to C63.10, the EUT was placed on 0.8m height table, the RF output of EUT was connected to the Spectrum Analyzer by RF cable. The path loss was compensated to the results for each measurement.

1. Measure the duty cycle
2. Use the following spectrum analyzer settings:
RBW=1MHz, VBW≥3MHz, Span≥ the 99% Bandwidth of the emission being measured
Sweep = auto, Detector function = power averaging.
3. Trace average at least 100 traces in power averaging (rms) mode
4. Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times

15.407 Limits:

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26dB emission bandwidth in megahertz.

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

RSS 247 Limits:

For client devices in the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.

For the 5.25-5.35 GHz bands, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

For the 5.47-5.6 and 5.65-5.725 GHz bands, The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.



For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

Maximum conducted output power Test Result:

Test data should be referred to Appendix A for 709502403251-00C.

9.4 Maximum power spectral density

Test Method

According to C63.10, the EUT was placed on 0.8m height table, the RF output of EUT was connected to the test power meter by RF cable. The path loss was compensated to the results for each measurement.

1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...." (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
 2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
 3. Make the following adjustments to the peak value of the spectrum, if applicable:
 - a) If Method SA-2 or SA-2 Alternative was used, add $10 \log (1/x)$, where x is the duty cycle, to the peak of the spectrum.
 - b) If Method SA-3 Alternative was used and the linear mode was used in II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
 4. The result is the Maximum PSD over 1 MHz reference bandwidth.
 5. For devices operating in the bands 5.15–5.25 GHz, 5.25–5.35 GHz, and 5.47–5.725 GHz, the preceding procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in Section 15.407(a)(5) & RSS-247 6.2. For devices operating in the band 5.725–5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:
 - a) Set $RBW \geq 1/T$, where T is defined in II.B.I.a).
 - b) Set $VBW \geq 3$ RBW.
 - c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log (500 \text{ kHz}/RBW)$ to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
 - d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log (1\text{MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
 - e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.
- Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the II.F.5.c) and II.F.5.d), since RBW=100 kHz is available on nearly all spectrum analyzers.



Limit: The maximum power spectral density shall not exceed 11dBm for the 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725 GHz Band in any 1 megahertz band.
For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30dBm in any 1 500kHz band.

Test Result:

Test data should be referred to Appendix A for 709502403251-00C.

9.5 Frequencies Stability

Test Method

1. Connect the UUT to the spectrum analyzer
2. Set Centre Frequency of the channel under test.
3. Set Detector PEAK
4. Set RBW: 10KHz, VBW: 3RBW
5. Set Span: Encompass the entire emissions bandwidth (EBW) of the signal.
6. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

User manual temperature is 10 to 30 °C.

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

Limit: 20ppm

Test Results (All conditions and all modes were performed, only list Worst-Case in the report)
Remark: NV is normal Voltage: 120V~, HV is High Voltage: 138V~, LV is Low Voltage: 102V~, NT is normal Temperature: +20 °C.

Test Result:

Test data should be referred to Appendix A for 709502403251-00C.

9.6 Unwanted emissions

Transmitting spurious emission test result as below:

Test Method

Radiated Mode:

1. The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3. 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.
4. 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
5. Use the following spectrum analyzer settings According to C63.10:
For Above 1GHz
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 1MHz, VBW $\geq$ RBW for peak measurement and VBW = 10Hz for average measurement, Sweep = auto, Detector function = peak, Trace = max hold.
For Below 1GHz
Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 KHz, VBW $\geq$ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (20log(1/duty cycle)).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.

Limit

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.



(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

According to part 15.407(b) & RSS-247 6.2, the radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section 15.205 and RSS-GEN 8.10, must comply with the radiated emission limits specified in section 15.209 & RSS-GEN 8.9.

Frequency MHz	Field Strength uV/m	Field Strength dBμV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The only worse case listed in the report.

Transmitting spurious emission worse case test result:

Transmitting spurious emission test result as below:

Band1 Ant1

Test mode:5G_U-NII-1_802.11a_5180MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.71	74.00	22.29	PK	Hor
10362.22	49.70	68.20	18.50	PK	Hor
5144.60	51.77	74.00	22.23	PK	Hor
1124.84	50.03	74.00	23.97	PK	Ver
10359.03	51.35	68.20	16.85	PK	Ver
5144.74	55.65	74.00	18.35	PK	Ver
5144.74	43.80	54.00	10.20	AV	Ver

Test mode:5G_U-NII-1_802.11a_5200MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	52.11	74.00	21.89	PK	Hor
10404.19	48.80	68.20	19.40	PK	Hor
1124.84	50.12	74.00	23.88	PK	Ver
10398.34	49.63	68.20	18.57	PK	Ver

Test mode:5G_U-NII-1_802.11a_5240MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	50.59	74.00	23.41	PK	Ver
10481.75	48.25	68.20	19.96	PK	Ver
5359.17	47.27	74.00	26.73	PK	Ver
1124.84	51.90	74.00	22.10	PK	Hor
10478.03	48.65	68.20	19.55	PK	Hor
5355.01	47.05	74.00	26.95	PK	Hor

Test mode:5G_U-NII-1_802.11ac20_5180MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.38	51.12	74.00	22.88	PK	Hor
10352.66	48.58	68.20	19.62	PK	Hor
5149.91	52.78	74.00	21.22	PK	Hor
5149.91	45.10	54.00	8.90	AV	Hor
1124.84	49.31	74.00	24.69	PK	Ver
10358.50	48.73	68.20	19.47	PK	Ver
5149.77	56.38	74.00	17.62	PK	Ver
5149.77	48.10	54.00	5.90	AV	Ver

Test mode:5G_U-NII-1_802.11ac20_5200MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
10401.00	49.00	68.20	19.21	PK	Ver
1124.84	49.62	74.00	24.38	PK	Ver
1125.38	51.64	74.00	22.36	PK	Hor
10396.75	49.82	68.20	18.38	PK	Hor

Test mode:5G_U-NII-1_802.11ac20_5240MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.37	51.76	74.00	22.24	PK	Hor
5351.49	45.48	74.00	28.52	PK	Hor
10475.38	48.72	74.00	68.20	PK	Hor
10480.16	49.31	74.00	68.20	PK	Ver
5357.17	45.49	74.00	28.51	PK	Ver
1124.84	48.96	74.00	25.04	PK	Ver

Test mode:5G_U-NII-1_802.11ac40_5190MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
5149.93	58.32	74.00	15.68	PK	Ver
5149.93	46.10	54.00	7.90	AV	Ver
1124.84	49.38	74.00	24.62	PK	Ver
10384.00	48.76	68.20	19.44	PK	Ver
1124.31	51.78	74.00	22.22	PK	Hor
11384.88	48.45	68.20	19.75	PK	Hor
5148.80	54.69	74.00	19.31	PK	Hor
5148.80	44.20	54.00	9.80	AV	Hor

Test mode:5G_U-NII-1_802.11ac40_5230MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
10463.69	48.46	68.20	19.74	PK	Ver
1124.84	48.51	74.00	25.49	PK	Ver
5354.40	46.37	74.00	27.63	PK	Ver
1125.38	51.02	74.00	22.98	PK	Hor
10459.97	48.50	68.20	19.70	PK	Hor
5353.08	45.83	74.00	28.17	PK	Hor

Test mode:5G_U-NII-1_802.11ac80_5210MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.98	74.00	22.02	PK	Hor
10422.25	48.05	68.20	20.15	PK	Hor
5362.94	47.20	74.00	26.80	PK	Hor
5149.13	52.63	74.00	21.37	PK	Hor
5149.13	41.90	54.00	12.10	AV	Hor
5148.00	57.15	74.00	16.85	PK	Ver
5148.00	45.60	54.00	8.40	AV	Ver
1124.84	48.69	74.00	25.31	PK	Ver
10417.47	48.35	68.20	19.85	PK	Ver
5383.35	46.83	74.00	27.17	PK	Ver

Test mode:5G_U-NII-1_802.11AX_5180MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.38	51.31	74.00	22.69	PK	Hor
5149.50	55.12	74.00	18.88	PK	Hor
10360.63	48.39	68.20	19.81	PK	Hor
5149.50	44.70	54.00	9.30	AV	Hor
10357.44	49.50	68.20	18.70	PK	Ver
5148.39	55.66	74.00	18.34	PK	Ver
5148.39	47.50	54.00	6.50	AV	Ver
1124.84	50.03	74.00	23.97	PK	Ver

Test mode:5G_U-NII-1_802.11AX_5200MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.38	50.94	74.00	23.06	PK	Hor
10401.00	48.33	68.20	19.87	PK	Hor
1124.84	48.78	74.00	25.22	PK	Ver
10397.81	49.67	68.20	18.53	PK	Ver



Test mode:5G_U-NII-1_802.11AX_5240MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	52.08	74.00	21.92	PK	Hor
10481.22	48.41	68.20	19.79	PK	Hor
5352.38	46.17	74.00	27.83	PK	Hor
1124.84	49.70	74.00	24.31	PK	Ver
10480.16	50.83	68.20	17.37	PK	Ver
5353.53	46.64	74.00	27.36	PK	Ver

Test mode:5G_U-NII-1_802.11AX40_5190MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	48.99	74.00	25.01	PK	Ver
5145.96	62.80	74.00	11.20	PK	Ver
5145.96	48.80	54.00	5.20	AV	Ver
10391.44	48.29	68.20	19.91	PK	Ver
5147.38	59.05	74.00	14.95	PK	Hor
5147.38	47.00	54.00	7.00	AV	Hor
1124.31	51.28	74.00	22.72	PK	Hor
10372.84	48.81	68.20	19.39	PK	Hor

Test mode:5G_U-NII-1_802.11AX40_5230MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	47.46	74.00	26.54	PK	Ver
10453.06	48.98	68.20	19.22	PK	Ver
5390.43	47.87	74.00	26.13	PK	Ver
5353.20	46.40	74.00	27.60	PK	Hor
1124.31	52.13	74.00	21.87	PK	Hor
10463.16	48.27	68.20	19.93	PK	Hor

Test mode:5G_U-NII-1_802.11AX80_5210MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.38	51.26	74.00	22.74	PK	Hor
5355.89	46.33	74.00	27.67	PK	Hor
10418.53	48.49	68.20	19.71	PK	Hor
5146.73	56.87	74.00	17.13	PK	Hor
5146.73	43.80	54.00	10.20	AV	Hor
5415.22	48.01	74.00	25.99	PK	Ver
10421.72	48.27	68.20	19.93	PK	Ver
5148.38	58.84	74.00	15.16	PK	Ver
5148.38	46.50	54.00	7.50	AV	Ver
1124.84	49.98	74.00	24.02	PK	Ver

Test mode:5G_U-NII-1_802.11n20_5180MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
10356.38	48.92	68.20	19.28	PK	Hor
1124.31	51.52	74.00	22.48	PK	Hor
5148.60	56.81	74.00	17.19	PK	Hor
5148.60	43.70	54.00	10.30	AV	Hor
5149.50	57.02	74.00	16.98	PK	Ver
5149.50	45.20	54.00	8.80	AV	Ver
10364.88	49.67	68.20	18.53	PK	Ver
1124.84	51.77	74.00	22.23	PK	Ver

Test mode:5G_U-NII-1_802.11n20_5200MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.83	74.00	22.17	PK	Hor
10397.28	48.21	68.20	19.99	PK	Hor
10394.63	49.42	68.20	18.78	PK	Ver
1124.84	51.82	74.00	22.18	PK	Ver

Test mode:5G_U-NII-1_802.11n20_5240MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
5372.42	46.24	74.00	27.77	PK	Hor
1124.31	51.12	74.00	22.88	PK	Hor
10488.13	49.04	68.20	19.16	PK	Hor
10480.69	50.49	68.20	17.71	PK	Ver
5351.42	45.59	74.00	28.41	PK	Ver
1124.84	51.09	74.00	22.91	PK	Ver

Test mode:5G_U-NII-1_802.11n40_5190MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	50.46	74.00	23.55	PK	Ver
10379.75	48.33	68.20	19.87	PK	Ver
5148.51	58.49	74.00	15.51	PK	Ver
5148.51	46.60	54.00	7.40	AV	Ver
10381.34	47.92	68.20	20.28	PK	Hor
5149.51	53.63	74.00	20.37	PK	Hor
5149.51	44.20	54.00	9.80	AV	Hor
1124.84	51.92	74.00	22.08	PK	Hor

Test mode:5G_U-NII-1_802.11n40_5230MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	50.65	74.00	23.35	PK	Ver
10456.78	48.47	68.20	19.73	PK	Ver
5358.80	46.35	74.00	27.65	PK	Ver
5356.83	46.91	74.00	27.09	PK	Hor
1124.84	51.95	74.00	22.05	PK	Hor
10468.47	49.30	68.20	18.90	PK	Hor

Band1 Ant2

Test mode:5G_U-NII-1_802.11a_5180MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	52.02	74.00	21.98	PK	Hor
10365.94	48.56	68.20	19.64	PK	Hor
5149.63	55.15	74.00	18.85	PK	Hor
5149.63	46.20	54.00	7.80	AV	Hor
10356.91	48.15	68.20	20.05	PK	Ver
1124.84	49.97	74.00	24.03	PK	Ver
5123.55	51.80	74.00	22.20	PK	Ver

Test mode:5G_U-NII-1_802.11a_5200MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.98	74.00	22.02	PK	Hor
10399.41	47.76	68.20	20.44	PK	Hor
10401.53	48.32	68.20	19.88	PK	Ver
1124.84	50.58	74.00	23.42	PK	Ver

Test mode:5G_U-NII-1_802.11a_5240MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
5355.40	47.40	74.00	26.60	PK	Ver
1124.84	50.54	74.00	23.46	PK	Ver
10483.88	48.65	68.20	19.55	PK	Ver
10476.44	48.38	68.20	19.82	PK	Hor
1124.31	51.55	74.00	22.45	PK	Hor
5354.09	49.10	74.00	24.90	PK	Hor

Test mode:5G_U-NII-1_802.11ac20_5180MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	50.57	74.00	23.43	PK	Ver
5148.46	51.56	74.00	22.44	PK	Ver
10364.34	48.57	68.20	19.63	PK	Ver
10361.16	47.67	68.20	20.53	PK	Hor
5149.70	55.36	74.00	18.64	PK	Hor
5149.70	47.40	54.00	6.60	AV	Hor
1124.31	51.88	74.00	22.12	PK	Hor

Test mode:5G_U-NII-1_802.11ac20_5200MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.38	51.53	74.00	22.47	PK	Hor
10397.28	48.56	68.20	19.64	PK	Hor
1124.84	48.61	74.00	25.39	PK	Ver
10401.53	47.96	68.20	20.24	PK	Ver

Test mode:5G_U-NII-1_802.11ac20_5240MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
5355.28	47.41	74.00	26.59	PK	Ver
1124.84	50.16	74.00	23.84	PK	Ver
10479.09	48.30	74.00	68.20	PK	Ver
10480.69	49.14	74.00	68.20	PK	Hor
1125.38	51.97	74.00	22.03	PK	Hor
5350.59	49.76	74.00	24.24	PK	Hor

Test mode:5G_U-NII-1_802.11ac40_5190MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.38	51.43	74.00	22.57	PK	Hor
10386.13	49.20	68.20	19.00	PK	Hor
5149.58	54.35	74.00	19.65	PK	Hor
5149.58	45.90	54.00	8.10	AV	Hor
1124.84	48.91	74.00	25.09	PK	Ver
10383.47	47.48	68.20	20.72	PK	Ver
5147.95	54.84	74.00	19.16	PK	Ver
5147.95	46.20	54.00	7.80	AV	Ver

Test mode:5G_U-NII-1_802.11ac40_5230MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
5357.50	47.85	74.00	26.15	PK	Ver
1124.84	51.76	74.00	22.24	PK	Ver
10458.38	48.72	68.20	19.48	PK	Ver
10456.25	48.41	68.20	19.79	PK	Hor
1124.84	49.83	74.00	24.17	PK	Hor
5355.75	48.68	74.00	25.32	PK	Hor

Test mode:5G_U-NII-1_802.11ac80_5210MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	52.03	74.00	21.97	PK	Hor
5149.80	53.64	74.00	20.36	PK	Hor
5149.80	45.10	54.00	8.90	AV	Hor
10420.13	47.28	68.20	20.92	PK	Hor
5367.98	52.71	74.00	21.29	PK	Hor
5367.98	42.10	54.00	11.90	AV	Ver
5410.47	50.49	74.00	23.51	PK	Ver
5149.43	54.79	74.00	19.21	PK	Ver
5149.43	45.70	54.00	8.30	AV	Ver
1124.84	49.52	74.00	24.48	PK	Ver
10425.44	48.44	68.20	19.76	PK	Ver

Test mode:5G_U-NII-1_802.11AX_5180MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	50.23	74.00	23.77	PK	Ver
10367.53	48.35	68.20	19.85	PK	Ver
5148.12	50.84	74.00	23.16	PK	Ver
1124.31	51.41	74.00	22.59	PK	Hor
10362.22	48.03	68.20	20.17	PK	Hor
5149.84	55.20	74.00	18.80	PK	Hor
5149.84	47.40	54.00	6.60	AV	Hor

Test mode:5G_U-NII-1_802.11AX_5200MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.38	51.14	74.00	22.86	PK	Hor
10403.13	48.10	68.20	20.10	PK	Hor
1124.84	49.69	74.00	24.31	PK	Ver
10397.28	47.76	68.20	20.44	PK	Ver

Test mode:5G_U-NII-1_802.11AX_5240MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	52.08	74.00	21.92	PK	Hor
10483.34	48.38	68.20	19.82	PK	Hor
5353.60	52.22	74.00	21.78	PK	Hor
5353.60	42.30	54.00	11.70	AV	Hor
1124.84	49.38	74.00	24.62	PK	Ver
10482.81	48.36	68.20	19.84	PK	Ver
5351.56	48.55	74.00	25.46	PK	Ver

Test mode:5G_U-NII-1_802.11AX40_5190MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	49.64	74.00	24.36	PK	Ver
10349.47	48.54	68.20	19.66	PK	Ver
5149.79	58.52	74.00	15.48	PK	Ver
5149.79	47.70	54.00	6.30	AV	Ver
5149.01	55.76	74.00	18.24	PK	Hor
5149.01	46.60	54.00	7.40	AV	Hor
1124.84	51.81	74.00	22.19	PK	Hor
10385.59	48.46	68.20	19.74	PK	Hor



Test mode:5G_U-NII-1_802.11AX40_5230MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.76	74.00	22.24	PK	Hor
10462.09	47.99	68.20	20.21	PK	Hor
5361.58	49.70	74.00	24.31	PK	Hor
5370.73	49.29	74.00	24.71	PK	Ver
1124.84	48.16	74.00	25.84	PK	Ver
10464.22	48.37	68.20	19.83	PK	Ver

Test mode:5G_U-NII-1_802.11AX80_5210MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	50.11	74.00	23.89	PK	Ver
10415.88	48.87	68.20	19.33	PK	Ver
5372.10	50.80	74.00	23.20	PK	Ver
5146.58	57.77	74.00	16.23	PK	Ver
5146.58	46.50	54.00	7.50	AV	Ver
1124.31	51.60	74.00	22.40	PK	Hor
10421.72	48.23	68.20	19.97	PK	Hor
5364.76	51.92	74.00	22.08	PK	Hor
5147.70	57.76	74.00	16.24	PK	Hor
5147.70	45.90	54.00	8.10	AV	Hor

Test mode:5G_U-NII-1_802.11n20_5180MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.87	74.00	22.13	PK	Hor
10388.78	47.98	68.20	20.22	PK	Hor
5149.36	57.71	74.00	16.29	PK	Hor
5149.36	46.80	54.00	7.20	AV	Hor
5148.67	53.14	74.00	20.86	PK	Ver
5148.67	43.00	54.00	11.00	AV	Ver
1124.84	51.14	74.00	22.87	PK	Ver
10363.81	49.56	68.20	18.64	PK	Ver

Test mode:5G_U-NII-1_802.11n20_5200MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	50.52	74.00	23.48	PK	Hor
10398.88	48.96	68.20	19.24	PK	Hor
10402.06	48.70	68.20	19.51	PK	Ver
1124.84	50.66	74.00	23.34	PK	Ver

Test mode:5G_U-NII-1_802.11n20_5240MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.95	74.00	22.06	PK	Hor
5359.88	48.83	74.00	25.17	PK	Hor
10475.38	48.49	68.20	19.71	PK	Hor
5350.75	46.93	74.00	27.07	PK	Ver
1124.84	50.84	74.00	23.16	PK	Ver
10487.06	48.61	68.20	19.59	PK	Ver

Test mode:5G_U-NII-1_802.11n40_5190MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.38	51.63	74.00	22.37	PK	Hor
5149.93	57.54	74.00	16.46	PK	Hor
5149.93	45.30	54.00	8.70	AV	Hor
10379.21	47.47	68.20	20.73	PK	Hor
1124.84	48.70	74.00	25.30	PK	Ver
10377.09	48.64	68.20	19.56	PK	Ver
5148.09	54.72	74.00	19.28	PK	Ver
5148.09	45.70	54.00	8.30	AV	Ver

Test mode:5G_U-NII-1_802.11n40_5230MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	50.64	74.00	23.36	PK	Ver
5372.30	47.65	74.00	26.35	PK	Ver
10458.38	48.91	68.20	19.29	PK	Ver
10453.06	49.09	68.20	19.11	PK	Hor
5357.68	49.10	74.00	24.90	PK	Hor
1125.38	51.57	74.00	22.43	PK	Hor

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Test mode:5G_U-NII-1_802.11a_5180MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.37	51.66	74.00	22.34	PK	Hor
10353.19	48.65	68.20	19.55	PK	Hor
5146.39	57.14	74.00	16.86	PK	Hor
5146.39	46.30	54.00	7.70	AV	Hor
10354.78	49.95	68.20	18.25	PK	Ver
1124.84	48.84	74.00	25.16	PK	Ver
5146.05	54.29	74.00	19.71	PK	Ver

Test mode:5G_U-NII-1_802.11a_5200MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.61	74.00	22.39	PK	Hor
10404.72	48.98	68.20	19.22	PK	Hor
10396.75	49.28	68.20	18.92	PK	Ver
1124.84	49.64	74.00	24.36	PK	Ver

Test mode:5G_U-NII-1_802.11a_5240MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	48.94	74.00	25.06	PK	Ver
5352.57	47.32	74.00	26.68	PK	Ver
10475.91	49.01	68.20	19.19	PK	Ver
5354.43	48.76	74.00	25.24	PK	Hor
1124.84	51.79	74.00	22.21	PK	Hor
10478.03	48.45	68.20	19.75	PK	Hor

Test mode:5G_U-NII-1_802.11ac20_5180MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	48.81	74.00	25.19	PK	Ver
5147.43	57.06	74.00	16.94	PK	Ver
5147.43	46.40	54.00	7.60	AV	Ver
10362.75	48.58	68.20	19.62	PK	Ver
5149.42	58.58	74.00	15.42	PK	Hor
5149.42	48.90	54.00	5.10	AV	Hor
1124.84	51.27	74.00	22.73	PK	Hor
10364.34	48.94	68.20	19.26	PK	Hor

Test mode:5G_U-NII-1_802.11ac20_5200MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	48.82	74.00	25.18	PK	Ver
10402.06	48.69	68.20	19.51	PK	Ver
10405.25	48.17	68.20	20.03	PK	Hor
1124.84	51.07	74.00	22.93	PK	Hor

Test mode:5G_U-NII-1_802.11ac20_5240MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
5354.73	48.13	74.00	25.87	PK	Ver
1124.84	48.12	74.00	25.88	PK	Ver
10477.50	50.15	68.20	18.05	PK	Ver
10480.69	49.05	68.20	19.15	PK	Hor
1124.84	50.82	74.00	23.18	PK	Hor
5355.56	51.19	74.00	22.81	PK	Hor

Test mode:5G_U-NII-1_802.11ac40_5190MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.10	74.00	22.90	PK	Hor
10380.28	48.75	68.20	19.45	PK	Hor
5149.01	59.44	74.00	14.56	PK	Hor
5149.01	49.80	54.00	4.20	AV	Hor
1124.84	47.49	74.00	26.52	PK	Ver
10373.91	48.15	68.20	20.05	PK	Ver
5148.51	57.52	74.00	16.48	PK	Ver
5148.51	48.60	54.00	5.40	AV	Ver

Test mode:5G_U-NII-1_802.11ac40_5230MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	47.85	74.00	26.15	PK	Ver
5353.35	48.35	74.00	25.65	PK	Ver
10461.56	48.17	68.20	20.03	PK	Ver
10451.47	48.24	68.20	19.96	PK	Hor
5360.50	49.88	74.00	24.12	PK	Hor
1124.84	51.07	74.00	22.93	PK	Hor



Test mode:5G_U-NII-1_802.11ac80_5210MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
5148.60	60.90	74.00	13.10	PK	Hor
5148.60	51.10	54.00	2.90	AV	Hor
1124.84	51.10	74.00	22.90	PK	Hor
10416.94	49.68	68.20	18.52	PK	Hor
5352.93	53.11	74.00	20.89	PK	Hor
5352.93	43.90	54.00	10.10	AV	Hor
5368.65	49.41	74.00	24.59	PK	Ver
5148.60	59.69	74.00	14.31	PK	Ver
5148.60	48.20	54.00	5.80	AV	Ver
1124.84	48.50	74.00	25.50	PK	Ver
10421.19	47.48	68.20	20.72	PK	Ver

Test mode:5G_U-NII-1_802.11AX_5180MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	50.19	74.00	23.81	PK	Hor
10368.06	49.47	68.20	18.73	PK	Hor
5146.25	58.64	74.00	15.36	PK	Hor
5146.25	47.50	54.00	6.50	AV	Hor
1124.84	48.70	74.00	25.30	PK	Ver
10357.44	50.22	68.20	17.98	PK	Ver
5145.50	53.47	74.00	20.53	PK	Ver
5145.50	44.40	54.00	9.60	AV	Ver

Test mode:5G_U-NII-1_802.11AX_5200MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.05	74.00	22.95	PK	Hor
10402.59	48.16	68.20	20.04	PK	Hor
1124.84	48.87	74.00	25.13	PK	Ver
11392.84	49.12	68.20	19.08	PK	Ver



Test mode:5G_U-NII-1_802.11AX_5240MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	50.42	74.00	23.58	PK	Hor
10476.44	48.67	68.20	19.53	PK	Hor
5350.66	51.84	74.00	22.16	PK	Hor
1124.84	48.81	74.00	25.19	PK	Ver
10484.41	48.21	68.20	19.99	PK	Ver
5354.27	49.40	74.00	24.60	PK	Ver

Test mode:5G_U-NII-1_802.11AX40_5190MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	50.93	74.00	23.07	PK	Hor
10378.69	48.05	68.20	20.15	PK	Hor
5147.88	61.23	74.00	12.77	PK	Hor
5147.88	50.50	54.00	3.50	AV	Hor
1124.84	48.50	74.00	25.50	PK	Ver
10384.00	47.88	68.20	20.32	PK	Ver
5149.86	59.56	74.00	14.44	PK	Ver
5149.86	50.20	54.00	3.80	AV	Ver

Test mode:5G_U-NII-1_802.11AX40_5230MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	48.93	74.00	25.07	PK	Ver
10456.25	48.32	68.20	19.88	PK	Ver
5350.70	48.18	74.00	25.82	PK	Ver
1124.84	50.77	74.00	23.23	PK	Hor
10457.31	49.31	68.20	18.89	PK	Hor
5390.88	50.92	74.00	23.08	PK	Hor

Test mode:5G_U-NII-1_802.11AX80_5210MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	48.71	74.00	25.29	PK	Ver
5432.28	50.28	74.00	23.72	PK	Ver
10422.25	47.24	68.20	20.96	PK	Ver
5146.13	62.72	74.00	11.28	PK	Ver
5146.13	49.50	54.00	4.50	AV	Ver
5357.80	52.40	74.00	21.61	PK	Hor
5357.80	43.40	54.00	10.60	AV	Hor
10418.00	47.62	68.20	20.58	PK	Hor
5147.03	63.17	74.00	10.83	PK	Hor
5147.03	52.70	54.00	1.30	AV	Hor
1124.84	50.91	74.00	23.09	PK	Hor

Test mode:5G_U-NII-1_802.11n20_5180MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.24	74.00	22.76	PK	Hor
10359.03	47.95	68.20	20.25	PK	Hor
5146.46	55.86	74.00	18.14	PK	Hor
5146.46	46.40	54.00	7.60	AV	Hor
5148.46	58.78	74.00	15.23	PK	Ver
5148.46	44.50	54.00	9.50	AV	Ver
10360.63	49.45	68.20	18.75	PK	Ver
1124.84	48.94	74.00	25.06	PK	Ver

Test mode:5G_U-NII-1_802.11n20_5200MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	49.32	74.00	24.68	PK	Ver
10395.69	49.83	68.20	18.37	PK	Ver
10393.56	49.03	68.20	19.17	PK	Hor
1124.84	51.91	74.00	22.09	PK	Hor

Test mode:5G_U-NII-1_802.11n20_5240MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.44	74.00	22.57	PK	Hor
10482.28	48.62	68.20	19.58	PK	Hor
5355.49	50.52	74.00	23.48	PK	Hor
5354.94	48.38	74.00	25.62	PK	Ver
1124.84	48.55	74.00	25.45	PK	Ver
10480.69	50.16	68.20	18.04	PK	Ver

Test mode:5G_U-NII-1_802.11n40_5190MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	48.80	74.00	25.20	PK	Ver
5148.02	63.43	74.00	10.57	PK	Ver
5148.02	48.20	54.00	5.80	AV	Ver
10378.69	48.05	68.20	20.15	PK	Ver
1124.84	51.28	74.00	22.72	PK	Hor
10380.81	48.08	68.20	20.12	PK	Hor
5148.73	62.88	74.00	11.12	PK	Hor
5148.73	50.40	54.00	3.60	AV	Hor

Test mode:5G_U-NII-1_802.11n40_5230MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.94	74.00	22.06	PK	Hor
5353.23	50.49	74.00	23.52	PK	Hor
10467.94	48.55	68.20	19.65	PK	Hor
1124.84	48.37	74.00	25.63	PK	Ver
10460.50	49.96	68.20	18.24	PK	Ver
5350.40	48.65	74.00	25.35	PK	Ver

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Test mode:5G_U-NII-3_802.11a_5745MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
11491.66	52.48	74.00	21.52	PK	Ver
11491.66	44.60	54.00	9.40	AV	Ver
1124.84	50.11	74.00	23.89	PK	Ver
1124.84	51.69	74.00	22.31	PK	Hor
11484.75	50.19	74.00	23.81	PK	Hor

Test mode:5G_U-NII-3_802.11a_5785MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	52.04	74.00	21.96	PK	Hor
11577.19	50.02	74.00	23.98	PK	Hor
11569.75	53.27	74.00	20.73	PK	Ver
11569.75	44.70	54.00	9.30	AV	Ver
1124.84	49.72	74.00	24.28	PK	Ver

Test mode:5G_U-NII-3_802.11a_5825MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.74	74.00	22.26	PK	Hor
11655.28	49.28	74.00	24.72	PK	Hor
1124.84	49.90	74.00	24.10	PK	Ver
11653.16	50.28	74.00	23.73	PK	Ver

Test mode:5G_U-NII-3_802.11ac20_5745MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	52.09	74.00	21.91	PK	Hor
11487.94	50.50	74.00	23.50	PK	Hor
1124.84	49.84	74.00	24.16	PK	Ver
11487.41	51.86	74.00	22.14	PK	Ver

Test mode:5G_U-NII-3_802.11ac20_5785MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.38	51.33	74.00	22.67	PK	Hor
11569.22	49.72	74.00	24.28	PK	Hor
1124.84	49.51	74.00	24.50	PK	Ver
11571.34	50.02	74.00	23.99	PK	Ver

Test mode:5G_U-NII-3_802.11ac20_5825MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.94	74.00	22.06	PK	Hor
11655.81	49.74	74.00	24.26	PK	Hor
1124.84	49.69	74.00	24.31	PK	Ver
11646.78	52.51	74.00	21.49	PK	Ver

Test mode:5G_U-NII-3_802.11ac40_5755MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.38	51.92	74.00	22.08	PK	Hor
11508.66	49.02	74.00	24.98	PK	Hor
1124.84	49.47	74.00	24.53	PK	Ver
11511.31	49.03	74.00	24.98	PK	Ver

Test mode:5G_U-NII-3_802.11ac40_5795MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	52.09	74.00	21.91	PK	Hor
11589.41	49.63	74.00	24.37	PK	Hor
1124.84	48.53	74.00	25.47	PK	Ver
11588.34	48.66	74.00	25.34	PK	Ver

Test mode:5G_U-NII-3_802.11ac80_5775MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.88	74.00	22.13	PK	Hor
11512.91	48.41	74.00	25.60	PK	Hor
1124.84	49.02	74.00	24.98	PK	Ver
11559.13	49.68	74.00	24.32	PK	Ver

Test mode:5G_U-NII-3_802.11AX_5745MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	52.10	74.00	21.90	PK	Hor
11487.41	50.72	74.00	23.28	PK	Hor
1124.84	48.73	74.00	25.27	PK	Ver
11495.91	52.61	74.00	21.39	PK	Ver
11495.91	46.00	54.00	8.00	AV	Ver

Test mode:5G_U-NII-3_802.11AX_5785MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.38	51.16	74.00	22.84	PK	Hor
11566.56	49.50	74.00	24.50	PK	Hor
1124.84	47.65	74.00	26.35	PK	Ver
11568.16	50.07	74.00	23.93	PK	Ver

Test mode:5G_U-NII-3_802.11AX_5825MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.53	74.00	22.47	PK	Hor
11648.38	49.42	74.00	24.58	PK	Ver
1124.84	48.20	74.00	25.80	PK	Ver
11643.06	50.85	74.00	23.15	PK	Hor

Test mode:5G_U-NII-3_802.11AX40_5755MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.44	74.00	22.56	PK	Hor
11509.72	48.99	74.00	25.01	PK	Hor
1124.84	48.68	74.00	25.32	PK	Ver
11506.53	49.79	74.00	24.21	PK	Ver

Test mode:5G_U-NII-3_802.11AX40_5795MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	52.02	74.00	21.98	PK	Hor
11588.34	49.12	74.00	24.88	PK	Hor
1124.84	47.59	74.00	26.41	PK	Ver
11591.53	48.82	74.00	25.18	PK	Ver

Test mode:5G_U-NII-3_802.11AX80_5775MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	48.62	74.00	25.39	PK	Ver
11553.28	49.69	74.00	24.31	PK	Ver
1124.84	49.36	74.00	24.64	PK	Hor
11555.94	48.20	74.00	25.80	PK	Hor

Test mode:5G_U-NII-3_802.11n20_5745MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.98	74.00	22.03	PK	Hor
11490.06	50.14	74.00	23.86	PK	Hor
1124.84	51.80	74.00	22.20	PK	Ver
11492.72	52.88	74.00	21.12	PK	Ver
11492.72	45.30	54.00	8.70	AV	Ver

Test mode:5G_U-NII-3_802.11n20_5785MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.58	74.00	22.43	PK	Hor
11568.69	50.31	74.00	23.69	PK	Hor
1124.84	51.57	74.00	22.43	PK	Ver
11566.56	51.30	74.00	22.71	PK	Ver

Test mode:5G_U-NII-3_802.11n20_5825MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.88	74.00	22.12	PK	Hor
11655.28	49.82	74.00	24.18	PK	Hor
1124.84	51.21	74.00	22.79	PK	Ver
11659.00	51.71	74.00	22.29	PK	Ver

Test mode:5G_U-NII-3_802.11n40_5755MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.80	74.00	22.20	PK	Hor
11510.25	49.02	74.00	24.98	PK	Hor
1124.84	50.37	74.00	23.63	PK	Ver
11508.66	48.50	74.00	25.50	PK	Ver

Test mode:5G_U-NII-3_802.11n40_5795MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.98	74.00	22.02	PK	Hor
11586.75	49.09	74.00	24.91	PK	Hor
1124.84	50.40	74.00	23.60	PK	Ver
11590.47	49.02	74.00	24.98	PK	Ver

Band3 Ant2

Test mode:5G_U-NII-3_802.11a_5745MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	49.76	74.00	24.25	PK	Ver
11493.78	49.04	74.00	24.96	PK	Ver
1124.84	51.83	74.00	22.17	PK	Hor
11498.03	49.81	74.00	24.20	PK	Hor

Test mode:5G_U-NII-3_802.11a_5785MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	52.12	74.00	21.88	PK	Hor
11564.44	49.11	74.00	24.89	PK	Hor
1124.84	50.00	74.00	24.00	PK	Ver
11573.47	49.28	74.00	24.72	PK	Ver

Test mode:5G_U-NII-3_802.11a_5825MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	48.86	74.00	25.14	PK	Ver
11657.94	50.60	74.00	23.40	PK	Ver
1124.84	51.86	74.00	22.14	PK	Hor
11655.28	49.18	74.00	24.82	PK	Hor

Test mode:5G_U-NII-3_802.11ac20_5745MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.63	74.00	22.37	PK	Hor
11486.34	48.93	74.00	25.07	PK	Hor
1124.84	49.24	74.00	24.77	PK	Ver
11489.53	48.33	74.00	25.67	PK	Ver

Test mode:5G_U-NII-3_802.11ac20_5785MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	49.93	74.00	24.08	PK	Ver
11572.41	48.79	74.00	25.21	PK	Ver
1124.31	52.18	74.00	21.82	PK	Hor
11578.78	49.02	74.00	24.99	PK	Hor

Test mode:5G_U-NII-3_802.11ac20_5825MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	48.90	74.00	25.10	PK	Ver
11659.53	50.19	74.00	23.82	PK	Ver
1125.38	51.85	74.00	22.15	PK	Hor
11651.56	50.23	74.00	23.77	PK	Hor

Test mode:5G_U-NII-3_802.11ac40_5755MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	52.10	74.00	21.90	PK	Hor
11509.19	50.61	74.00	23.39	PK	Hor
1124.84	48.60	74.00	25.40	PK	Ver
11508.13	49.01	74.00	24.99	PK	Ver

Test mode:5G_U-NII-3_802.11ac40_5795MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.38	51.52	74.00	22.48	PK	Hor
11596.84	48.52	74.00	25.48	PK	Hor
1124.84	50.36	74.00	23.65	PK	Ver
11585.16	48.82	74.00	25.18	PK	Ver

Test mode:5G_U-NII-3_802.11ac80_5775MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.38	50.55	74.00	23.45	PK	Hor
11554.34	49.76	74.00	24.24	PK	Hor
1124.84	49.83	74.00	24.17	PK	Ver
11553.81	49.43	74.00	24.57	PK	Ver

Test mode:5G_U-NII-3_802.11AX_5745MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1125.38	51.43	74.00	22.57	PK	Hor
11495.91	48.33	74.00	25.67	PK	Hor
1124.84	48.59	74.00	25.41	PK	Ver
11494.31	48.36	74.00	25.64	PK	Ver

Test mode:5G_U-NII-3_802.11AX_5785MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.41	74.00	22.59	PK	Hor
11569.75	48.55	74.00	25.45	PK	Hor
1124.84	49.64	74.00	24.36	PK	Ver
11569.75	48.97	74.00	25.04	PK	Ver

Test mode:5G_U-NII-3_802.11AX_5825MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.72	74.00	22.28	PK	Hor
11656.34	49.15	74.00	24.85	PK	Hor
1124.84	48.01	74.00	25.99	PK	Ver
11645.72	49.49	74.00	24.51	PK	Ver

Test mode:5G_U-NII-3_802.11AX40_5755MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	52.07	74.00	21.93	PK	Hor
11510.25	47.94	74.00	26.06	PK	Hor
1124.84	48.03	74.00	25.97	PK	Ver
11507.59	48.16	74.00	25.85	PK	Ver

Test mode:5G_U-NII-3_802.11AX40_5795MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.44	74.00	22.56	PK	Hor
11490.06	48.40	74.00	25.60	PK	Hor
1124.84	48.96	74.00	25.04	PK	Ver
11591.53	48.34	74.00	25.66	PK	Ver

Test mode:5G_U-NII-3_802.11AX80_5775MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.95	74.00	22.05	PK	Hor
11552.22	48.48	74.00	25.52	PK	Hor
1124.84	49.62	74.00	24.38	PK	Ver
11553.28	49.05	74.00	24.95	PK	Ver

Test mode:5G_U-NII-3_802.11n20_5745MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.19	74.00	22.81	PK	Hor
11484.75	49.19	74.00	24.81	PK	Hor
1124.84	51.09	74.00	22.91	PK	Ver
11487.94	48.29	74.00	25.71	PK	Ver

Test mode:5G_U-NII-3_802.11n20_5785MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.80	74.00	22.20	PK	Hor
11574.53	58.58	74.00	15.42	PK	Hor
1124.84	51.09	74.00	22.91	PK	Ver
11571.88	48.76	74.00	25.24	PK	Ver

Test mode:5G_U-NII-3_802.11n20_5825MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	52.01	74.00	21.99	PK	Hor
11649.44	49.15	74.00	24.85	PK	Hor
1124.84	51.19	74.00	22.82	PK	Ver
11650.50	49.36	74.00	24.64	PK	Ver

Test mode:5G_U-NII-3_802.11n40_5755MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	52.23	74.00	21.77	PK	Hor
11502.81	50.37	74.00	23.63	PK	Hor
1124.84	49.01	74.00	24.99	PK	Ver
11509.19	48.51	74.00	25.49	PK	Ver

Test mode:5G_U-NII-3_802.11n40_5795MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.97	74.00	22.03	PK	Hor
11594.19	49.26	74.00	24.74	PK	Hor
1124.84	50.60	74.00	23.40	PK	Ver
11591.53	48.24	74.00	25.77	PK	Ver

Band3 MIMO

Test mode:5G_U-NII-3_802.11a_5745MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.84	74.00	22.16	PK	Hor
11484.75	49.69	74.00	24.31	PK	Hor
1124.84	50.31	74.00	23.69	PK	Ver
11492.72	50.58	74.00	23.42	PK	Ver

Test mode:5G_U-NII-3_802.11a_5785MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.31	51.85	74.00	22.15	PK	Hor
11570.28	48.81	74.00	25.20	PK	Hor
1124.84	49.80	74.00	24.20	PK	Ver
11574.00	51.02	74.00	22.98	PK	Ver

Test mode:5G_U-NII-3_802.11a_5825MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	49.98	74.00	24.02	PK	Ver
11648.38	50.75	74.00	23.25	PK	Ver
1124.84	51.46	74.00	22.54	PK	Hor
11647.84	49.31	74.00	24.69	PK	Hor

Test mode:5G_U-NII-3_802.11ac20_5745MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	47.96	74.00	26.04	PK	Ver
11489.53	49.33	74.00	24.68	PK	Ver
1124.84	50.16	74.00	23.84	PK	Hor
11491.13	49.94	74.00	24.06	PK	Hor

Test mode:5G_U-NII-3_802.11ac20_5785MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	48.46	74.00	25.55	PK	Ver
11562.84	49.15	74.00	24.85	PK	Ver
1124.84	51.47	74.00	22.53	PK	Hor
11576.66	49.86	74.00	24.14	PK	Hor

Test mode:5G_U-NII-3_802.11ac20_5825MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	47.97	74.00	26.03	PK	Ver
11658.47	50.96	74.00	23.04	PK	Ver
1124.84	50.57	74.00	23.43	PK	Hor
11652.63	49.76	74.00	24.24	PK	Hor

Test mode:5G_U-NII-3_802.11ac40_5755MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	49.38	74.00	24.62	PK	Hor
11508.66	49.59	74.00	24.41	PK	Hor
1124.84	48.32	74.00	25.68	PK	Ver
11511.84	47.93	74.00	26.08	PK	Ver

Test mode:5G_U-NII-3_802.11ac40_5795MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	47.66	74.00	26.34	PK	Ver
11595.78	48.17	74.00	25.83	PK	Ver
1124.84	50.94	74.00	23.06	PK	Hor
11587.81	47.77	74.00	26.23	PK	Hor

Test mode:5G_U-NII-3_802.11ac80_5775MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	48.55	74.00	25.45	PK	Ver
11548.50	47.91	74.00	26.09	PK	Ver
1124.84	49.56	74.00	24.44	PK	Hor
11541.59	49.01	74.00	24.99	PK	Hor

Test mode:5G_U-NII-3_802.11AX_5745MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	50.88	74.00	23.13	PK	Hor
11487.06	48.63	74.00	25.37	PK	Hor
1124.84	48.91	74.00	25.10	PK	Ver
11485.28	49.52	74.00	24.48	PK	Ver

Test mode:5G_U-NII-3_802.11AX_5785MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	48.36	74.00	25.64	PK	Ver
11568.69	49.10	74.00	24.90	PK	Ver
1124.84	51.31	74.00	22.69	PK	Hor
11566.56	48.37	74.00	25.63	PK	Hor

Test mode:5G_U-NII-3_802.11AX_5825MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	50.56	74.00	23.44	PK	Hor
11654.75	48.81	74.00	25.19	PK	Hor
1124.84	48.86	74.00	25.14	PK	Ver
11646.78	50.14	74.00	23.86	PK	Ver

Test mode:5G_U-NII-3_802.11AX40_5755MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	50.31	74.00	23.69	PK	Hor
11511.84	48.29	74.00	25.71	PK	Hor
1124.84	48.65	74.00	25.35	PK	Ver
11509.72	48.32	74.00	25.68	PK	Ver

Test mode:5G_U-NII-3_802.11AX40_5795MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	48.74	74.00	25.26	PK	Hor
11588.88	48.17	74.00	25.84	PK	Hor
1124.84	50.76	74.00	23.25	PK	Ver
11596.84	48.12	74.00	25.88	PK	Ver

Test mode:5G_U-NII-3_802.11AX80_5775MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	49.25	74.00	24.76	PK	Ver
11543.19	49.76	74.00	24.24	PK	Ver
1124.84	51.04	74.00	22.96	PK	Hor
11550.63	48.82	74.00	25.18	PK	Hor

Test mode:5G_U-NII-3_802.11n20_5745MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.81	74.00	22.19	PK	Hor
11495.38	49.09	74.00	24.91	PK	Hor
1124.84	48.64	74.00	25.36	PK	Ver
11495.91	50.02	74.00	23.98	PK	Ver

Test mode:5G_U-NII-3_802.11n20_5785MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.27	74.00	22.73	PK	Hor
11571.88	48.19	74.00	25.81	PK	Hor
1124.84	49.05	74.00	24.95	PK	Ver
11571.88	51.13	74.00	22.87	PK	Ver

Test mode:5G_U-NII-3_802.11n20_5825MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.19	74.00	22.81	PK	Hor
11649.44	48.32	74.00	25.68	PK	Hor
1124.84	49.57	74.00	24.43	PK	Ver
11640.94	51.07	74.00	22.93	PK	Ver

Test mode:5G_U-NII-3_802.11n40_5755MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.54	74.00	22.46	PK	Hor
11508.66	48.51	74.00	25.49	PK	Hor
1124.84	48.41	74.00	25.59	PK	Ver
11503.34	48.24	74.00	25.76	PK	Ver

Test mode:5G_U-NII-3_802.11n40_5795MHz					
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization
1124.84	51.99	74.00	22.01	PK	Hor
11598.44	48.39	74.00	25.61	PK	Hor
1124.84	48.87	74.00	25.14	PK	Ver
11596.31	48.60	74.00	25.40	PK	Ver

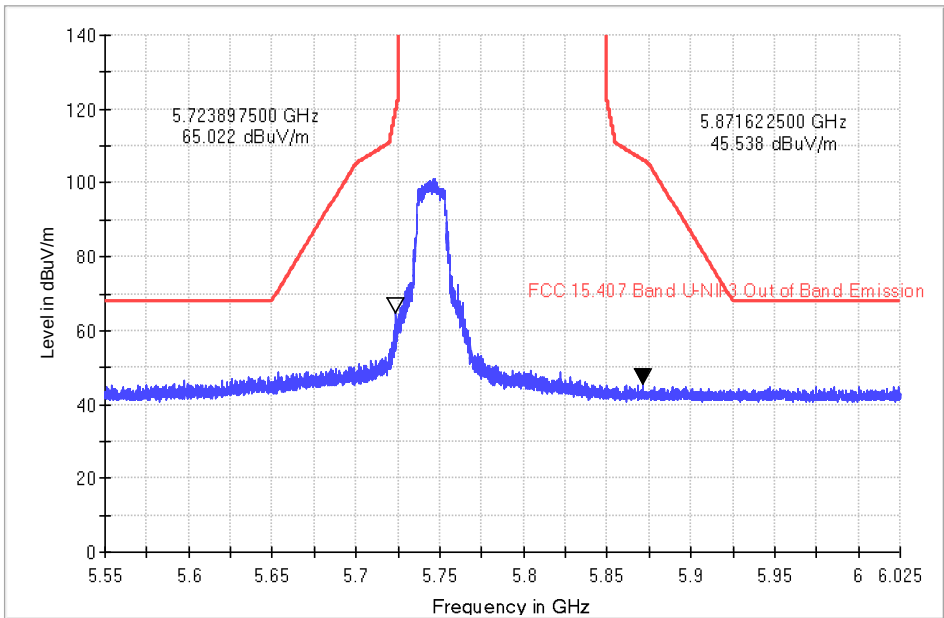
Remark:

- (1) Above 1GHz Corrector factor= Antenna Factor +Cable Loss - Amp. Factor.
- (2) Below 1GHz Corrector factor= Antenna Factor +Cable Loss.
- (3) "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBuV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.
- (4) "#" is band edge band
- (5) Testing is carried out with frequency rang 30MHz to 40GHz, which data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) The Low frequency, which start from 9KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



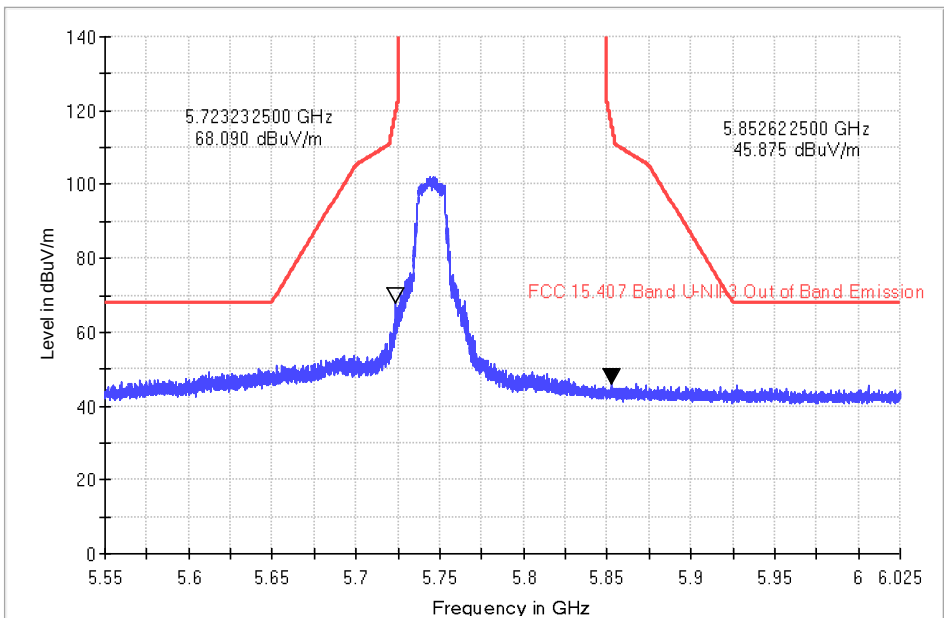
Out of Band Emission
802.11a: CH 5745MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

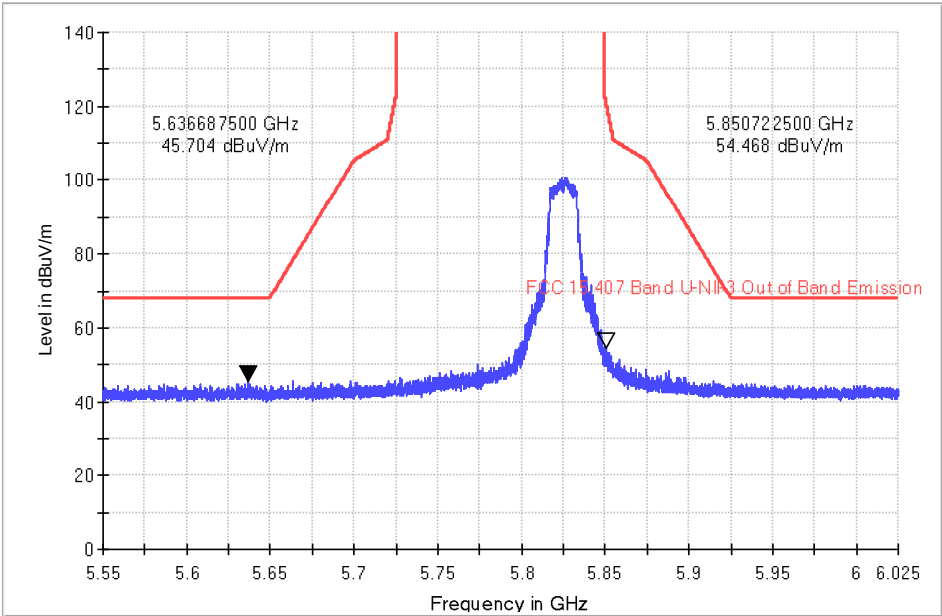
FCC 15.407 U-NII Out of Band Emission





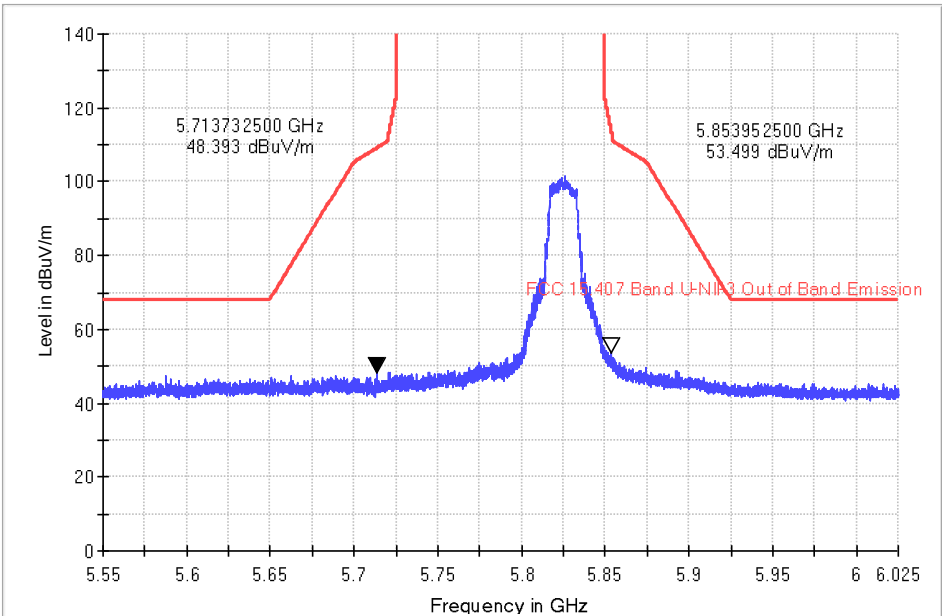
802.11a: CH 5825MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

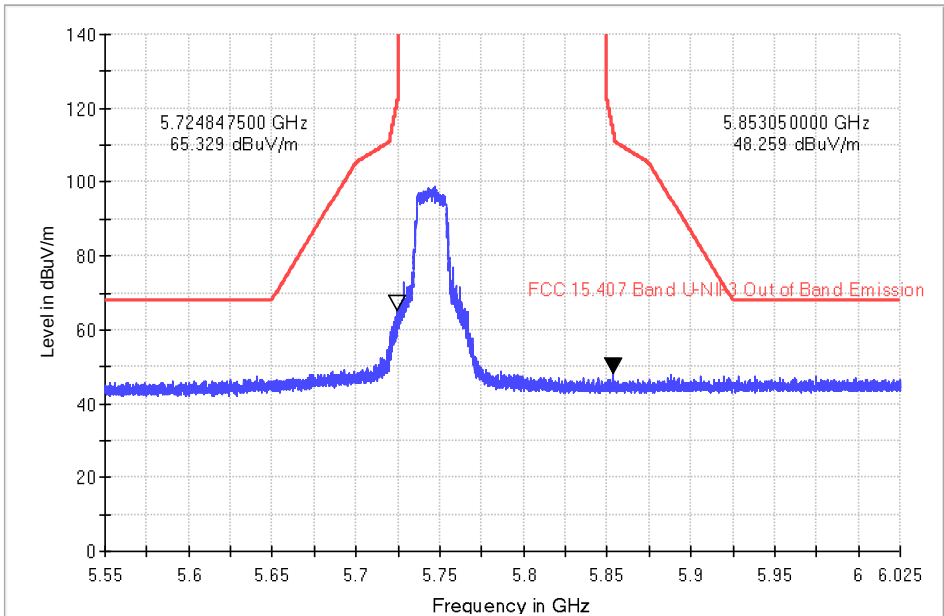
FCC 15.407 U-NII Out of Band Emission





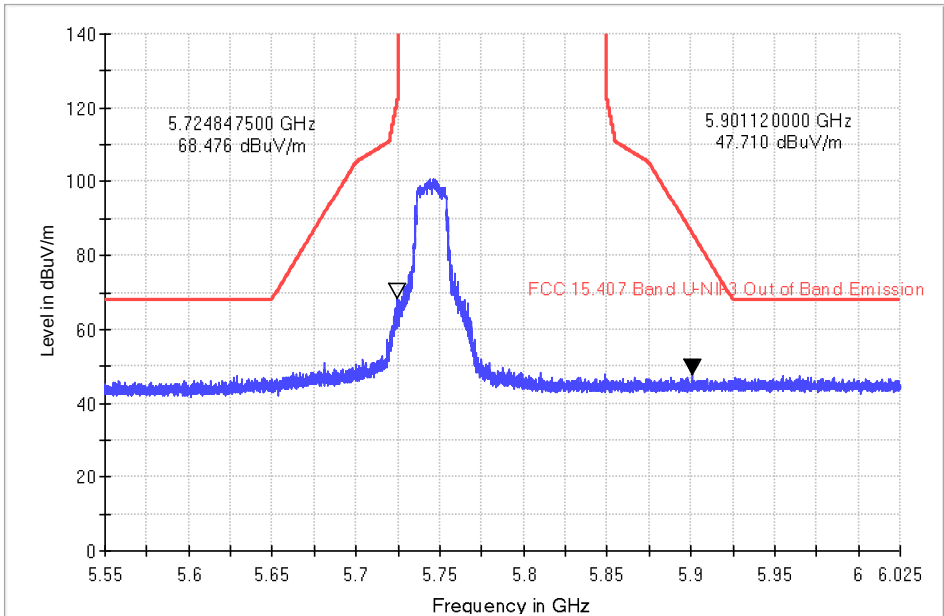
802.11n20: CH 5745MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

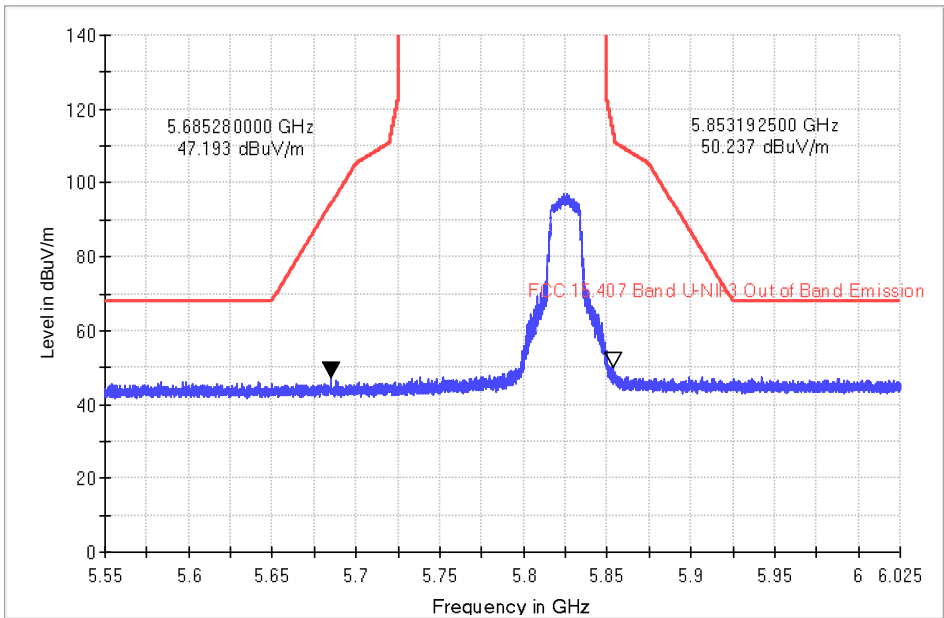
FCC 15.407 U-NII Out of Band Emission





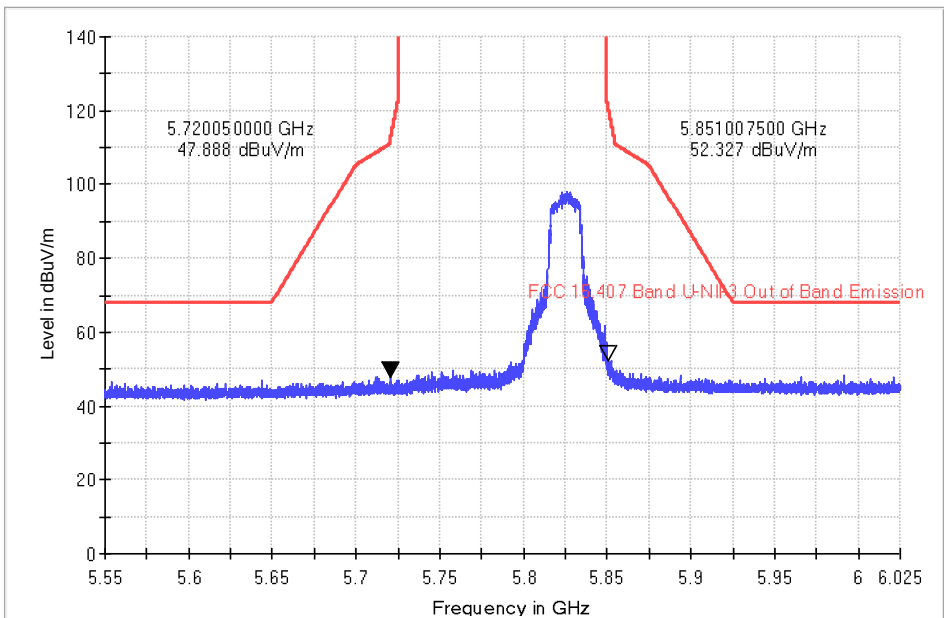
802.11n20: CH 5825MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

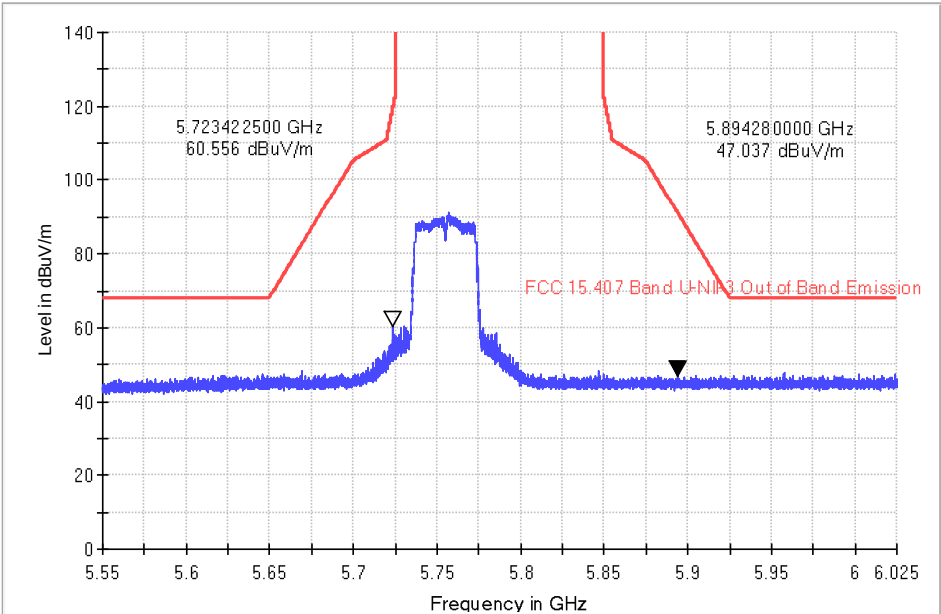
FCC 15.407 U-NII Out of Band Emission





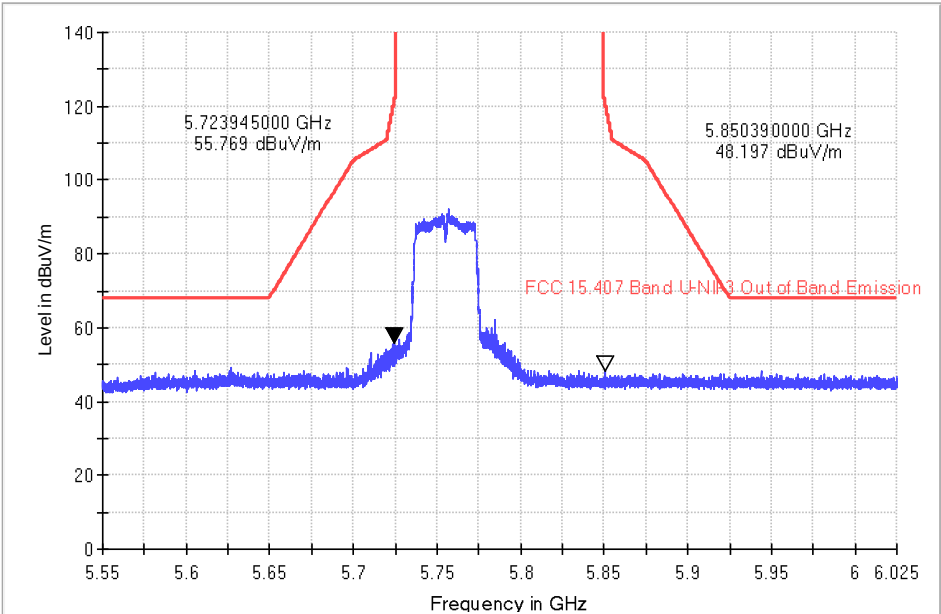
802.11n40: CH 5755MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

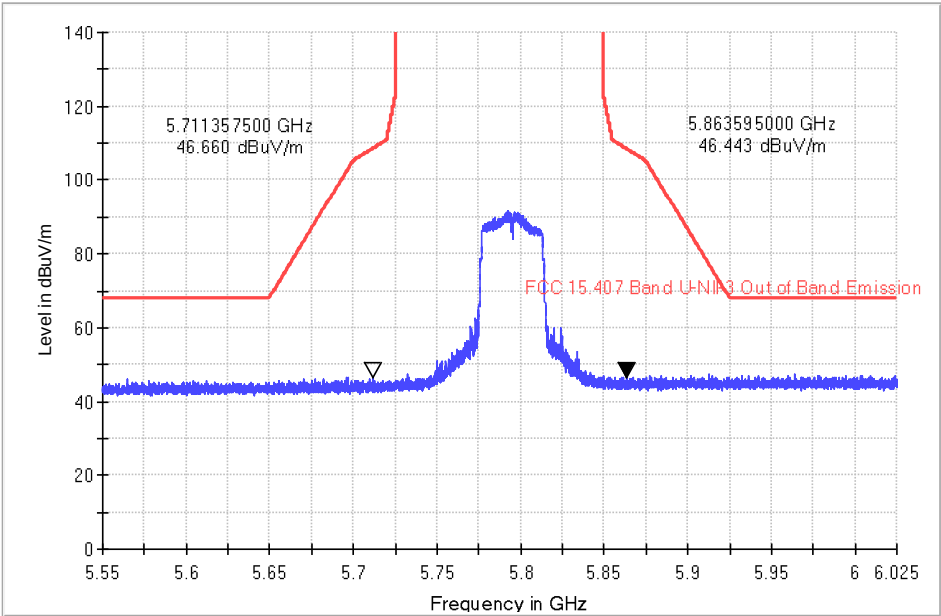
FCC 15.407 U-NII Out of Band Emission





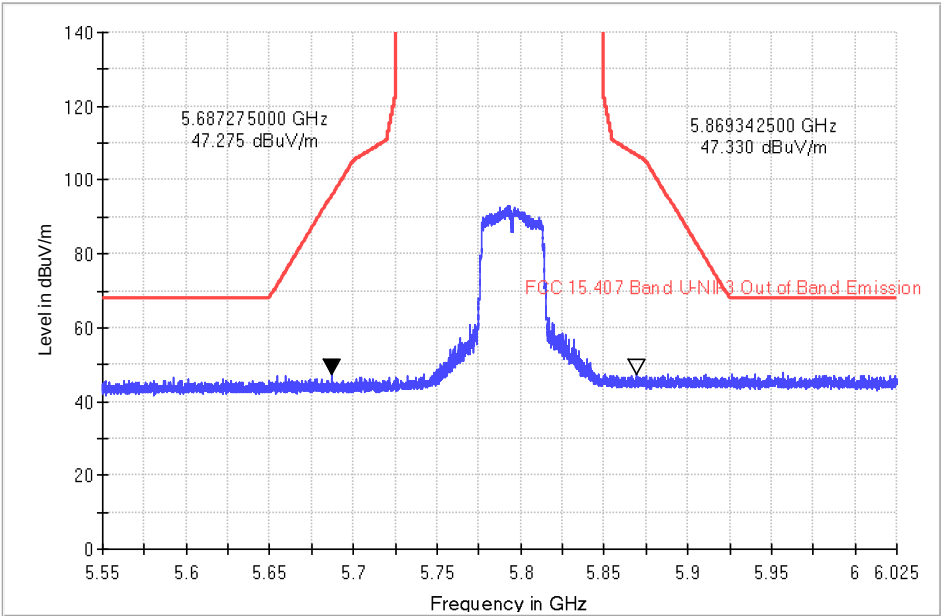
802.11n40: CH 5795MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

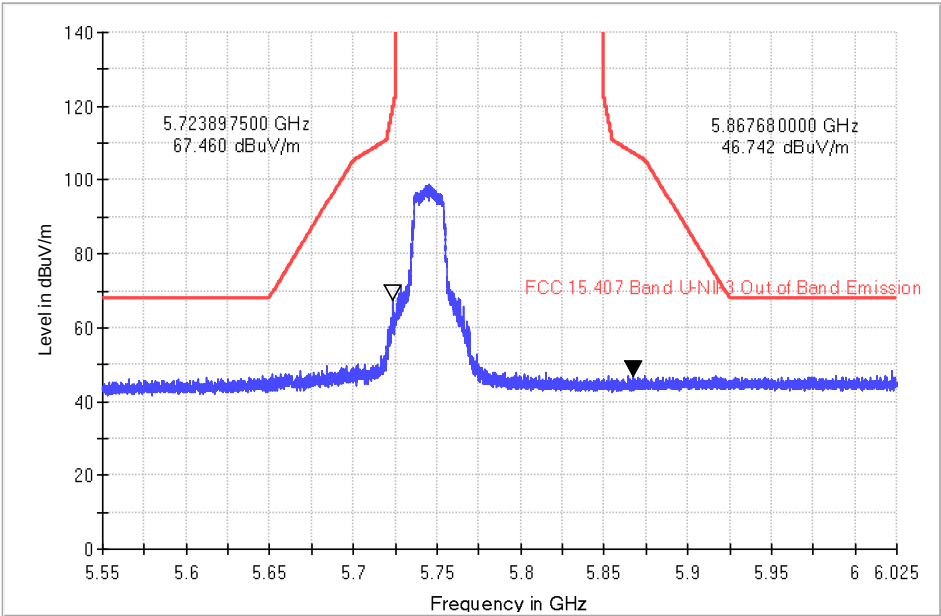
FCC 15.407 U-NII Out of Band Emission





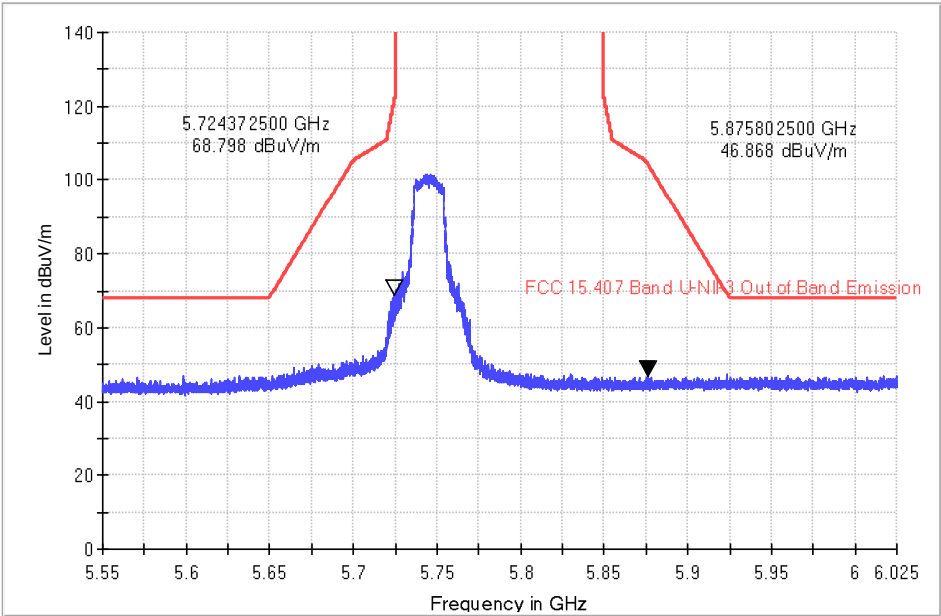
802.11ac20: CH 5745MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

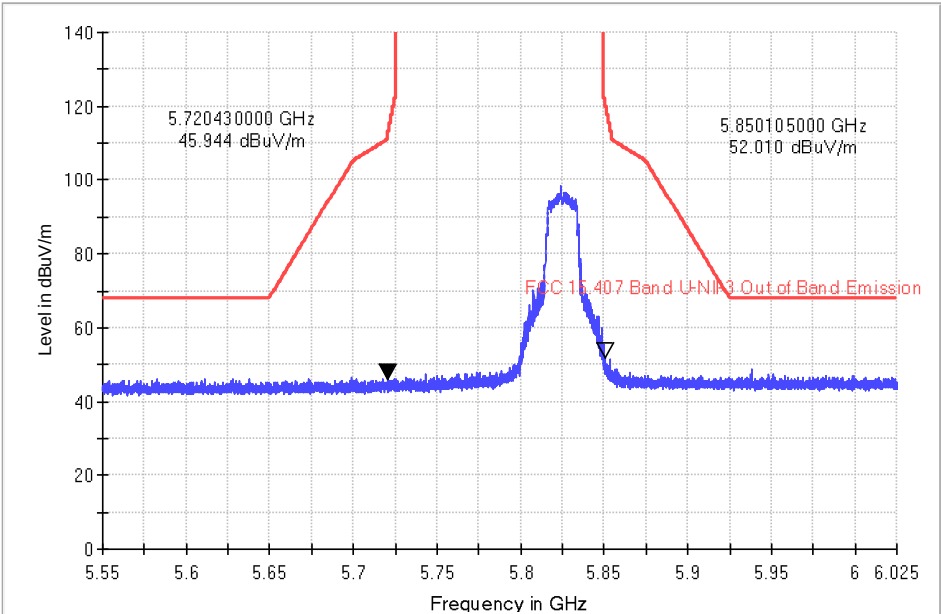
FCC 15.407 U-NII Out of Band Emission





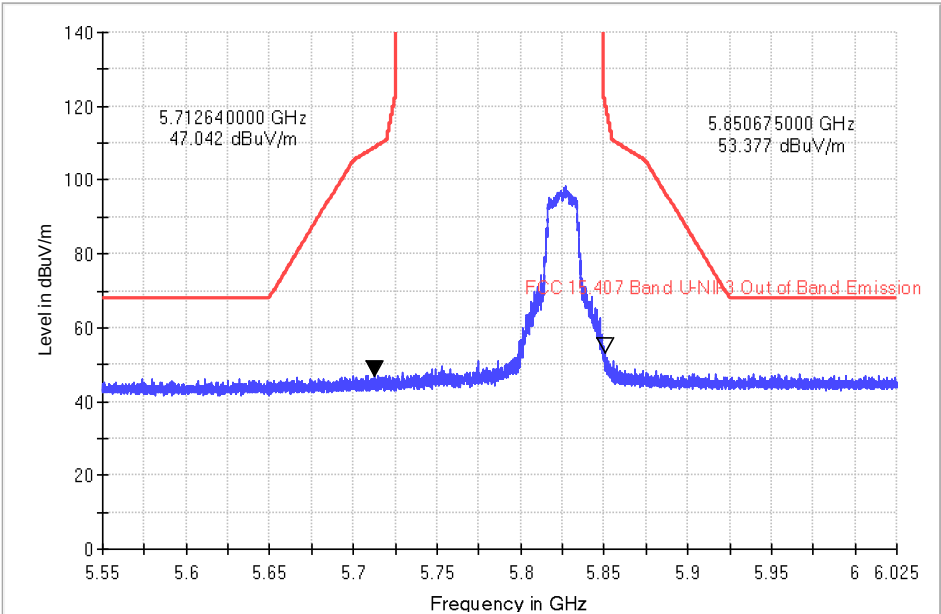
802.11ac20: CH 5825MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

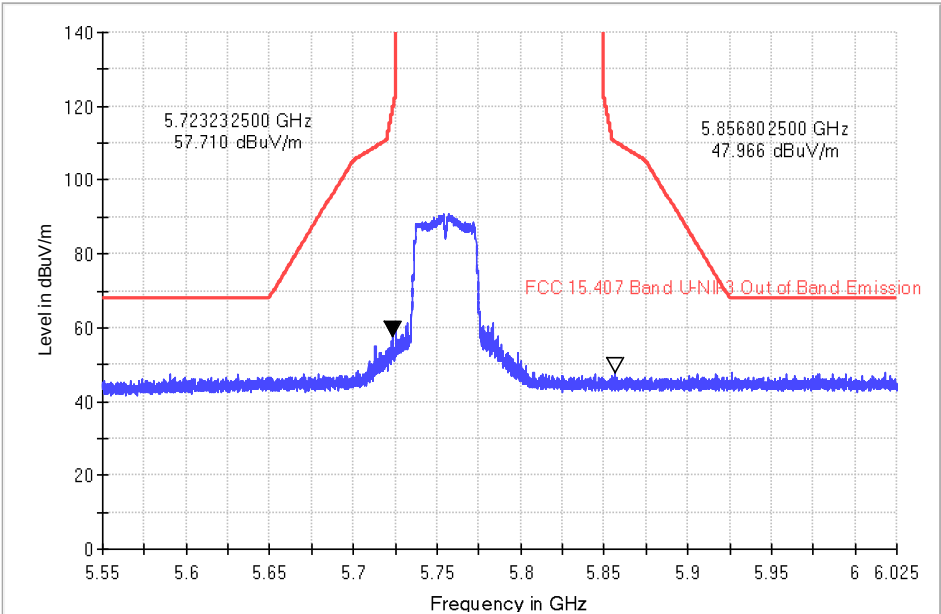
FCC 15.407 U-NII Out of Band Emission





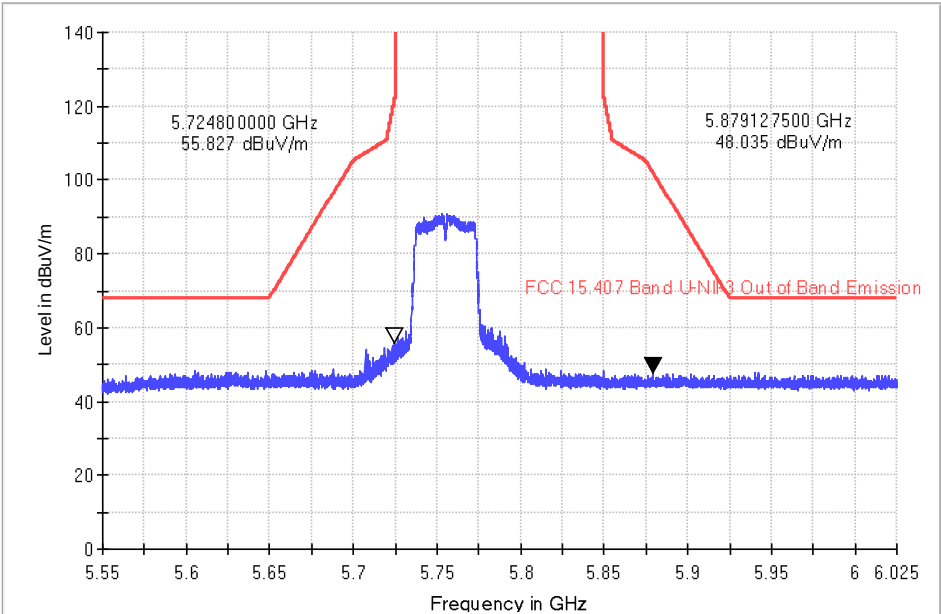
802.11ac40: CH 5755MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

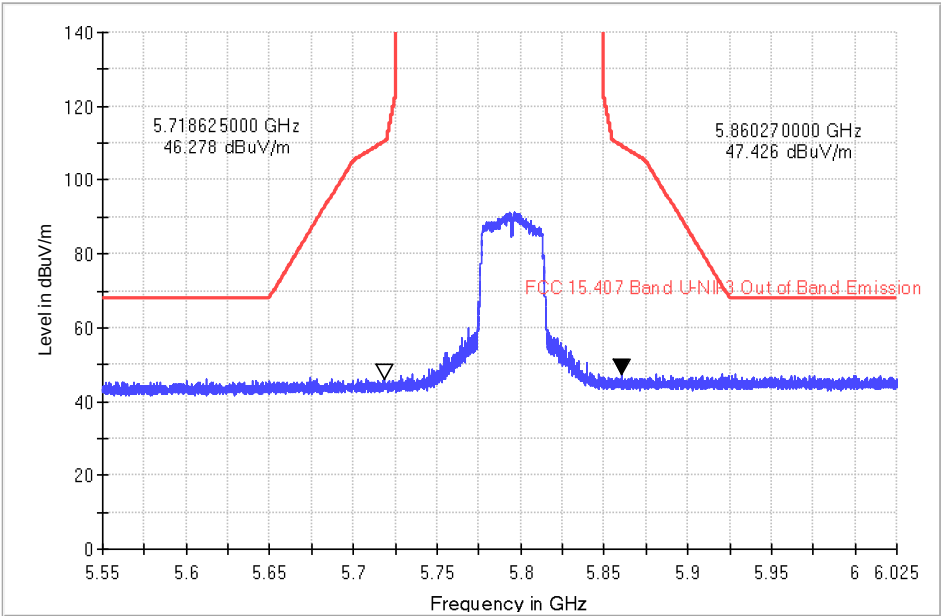
FCC 15.407 U-NII Out of Band Emission





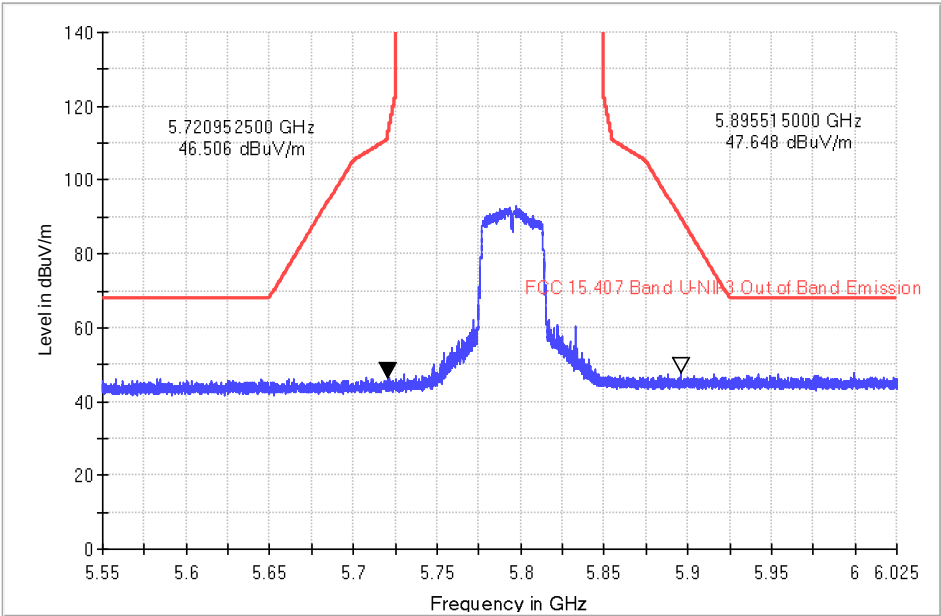
802.11ac40: CH 5795MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

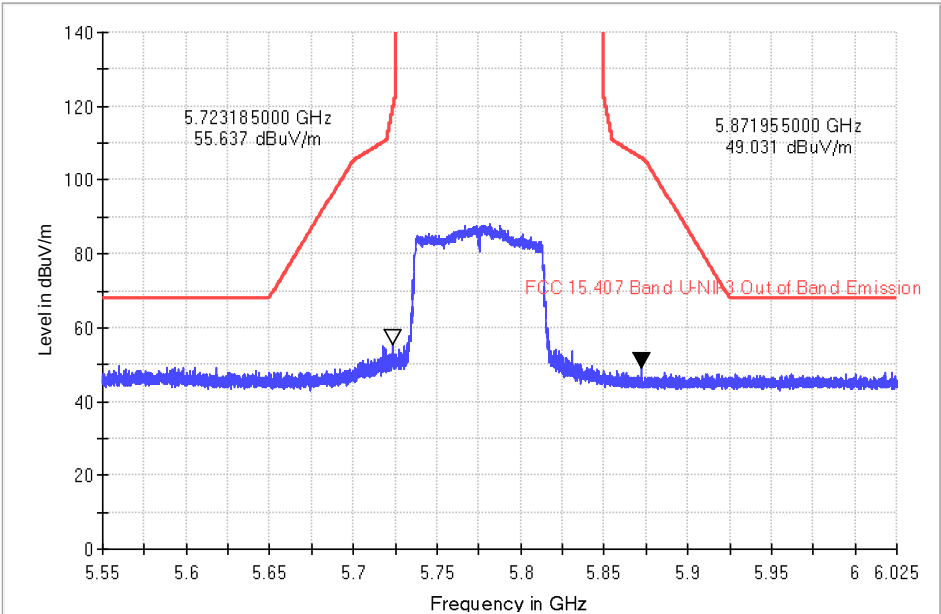
FCC 15.407 U-NII Out of Band Emission





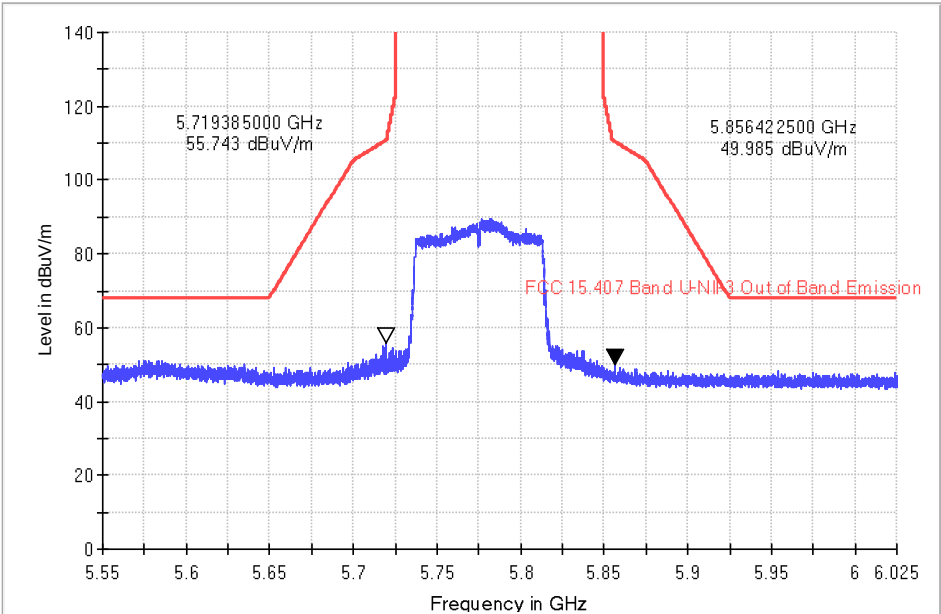
802.11ac80: CH 5775MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

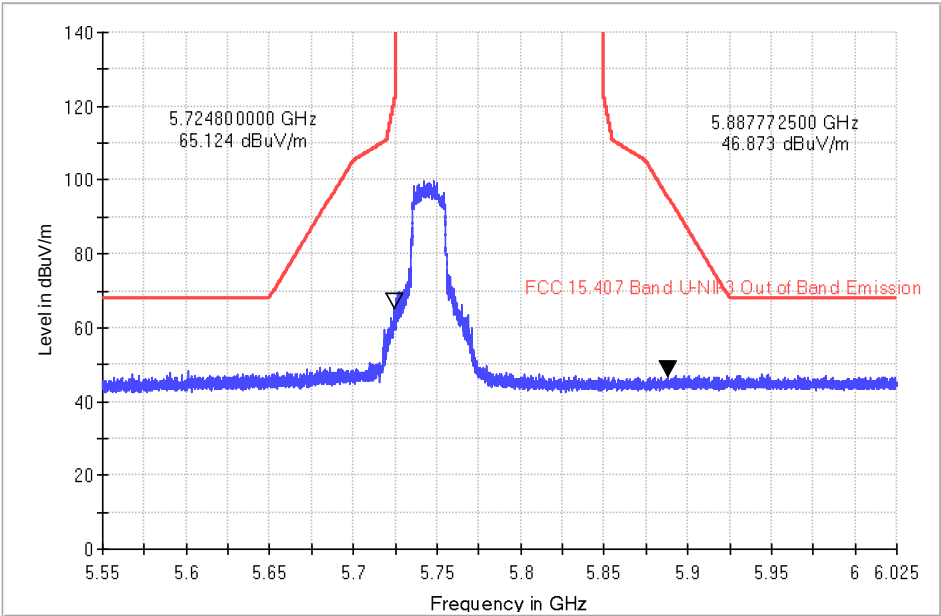
FCC 15.407 U-NII Out of Band Emission





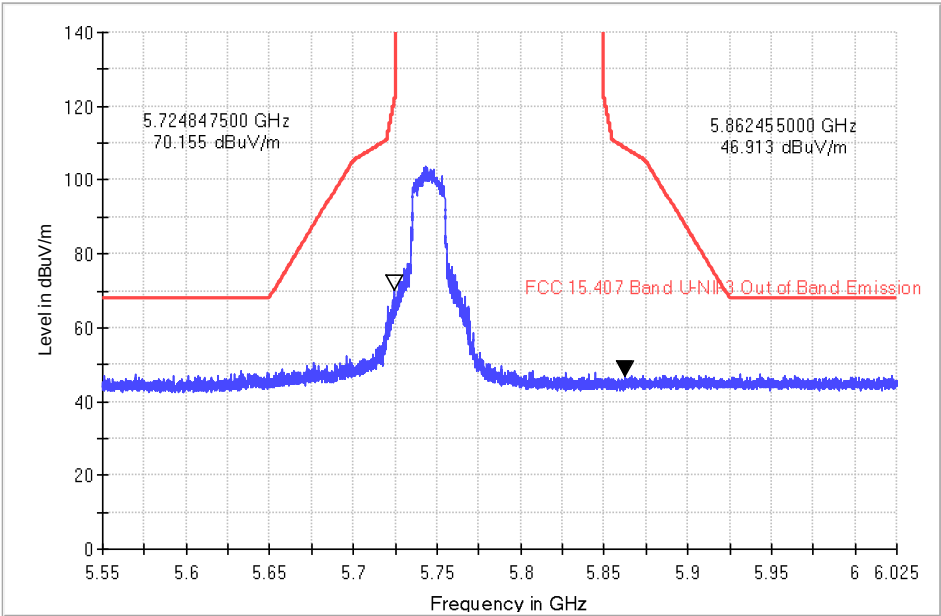
802.11ax20: CH 5745MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

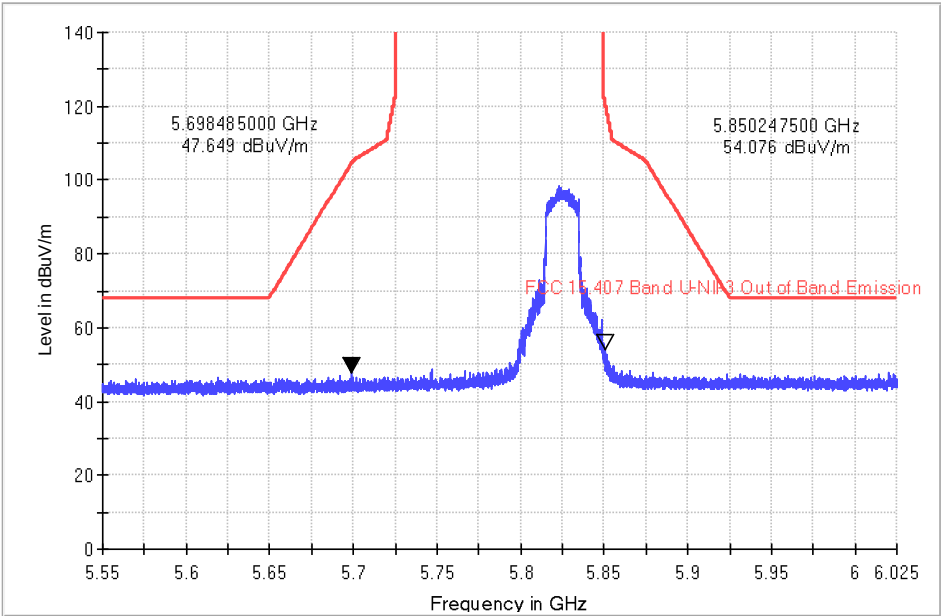
FCC 15.407 U-NII Out of Band Emission





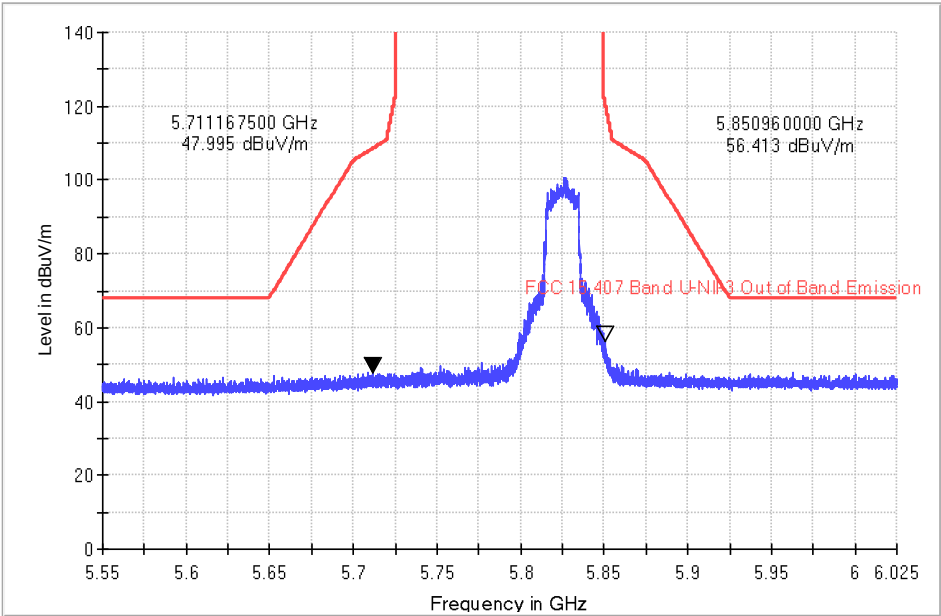
802.11ax20: CH 5825MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

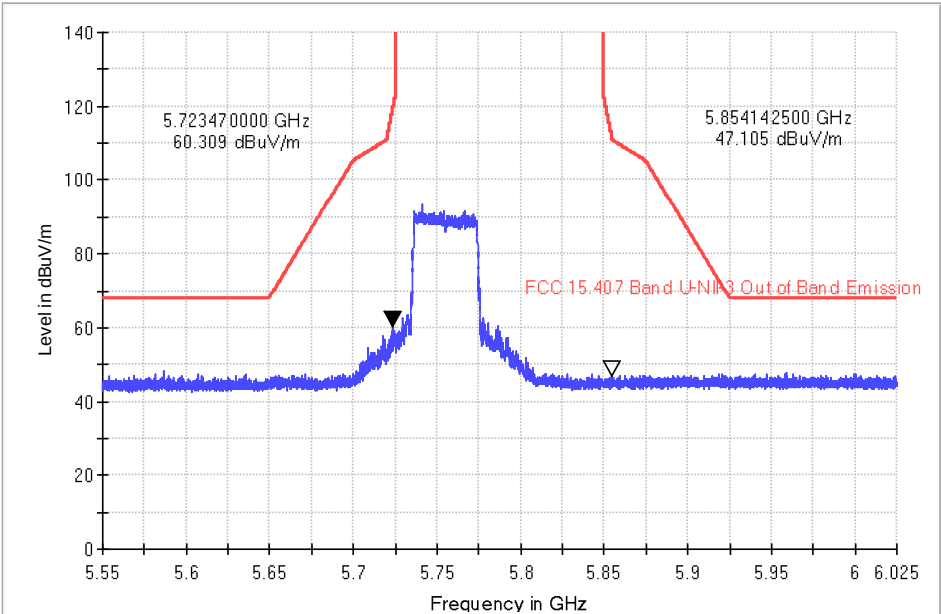
FCC 15.407 U-NII Out of Band Emission





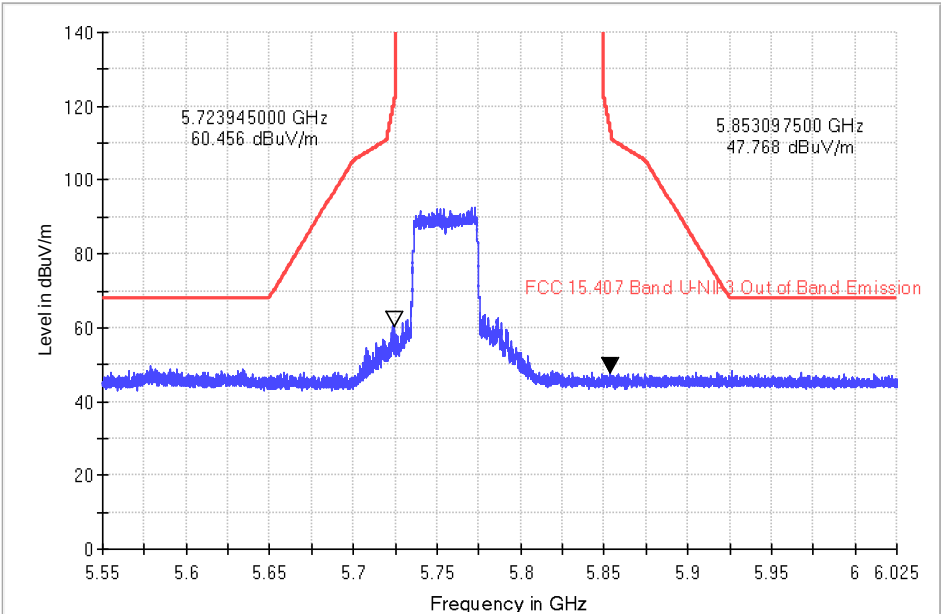
802.11ax40: CH 5755MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

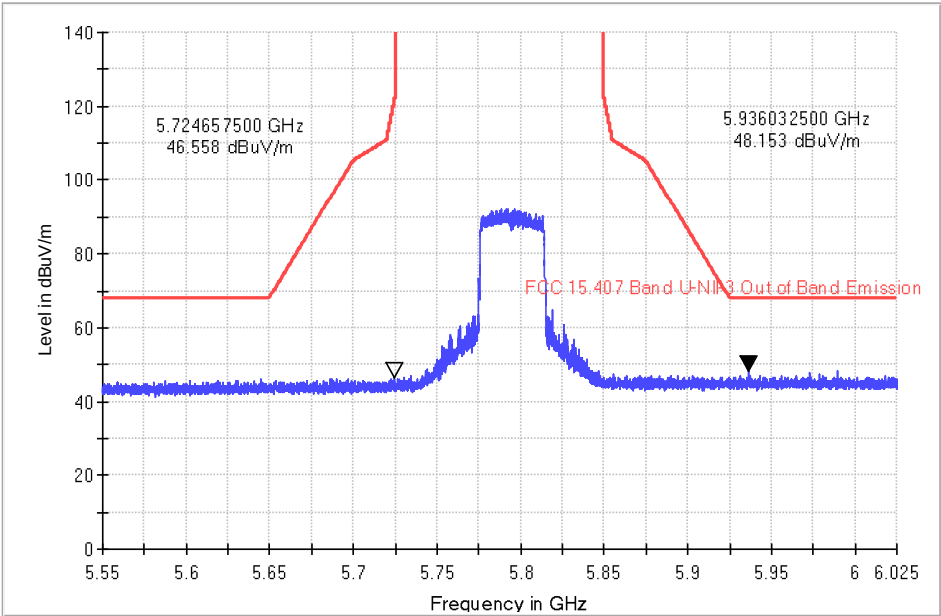
FCC 15.407 U-NII Out of Band Emission





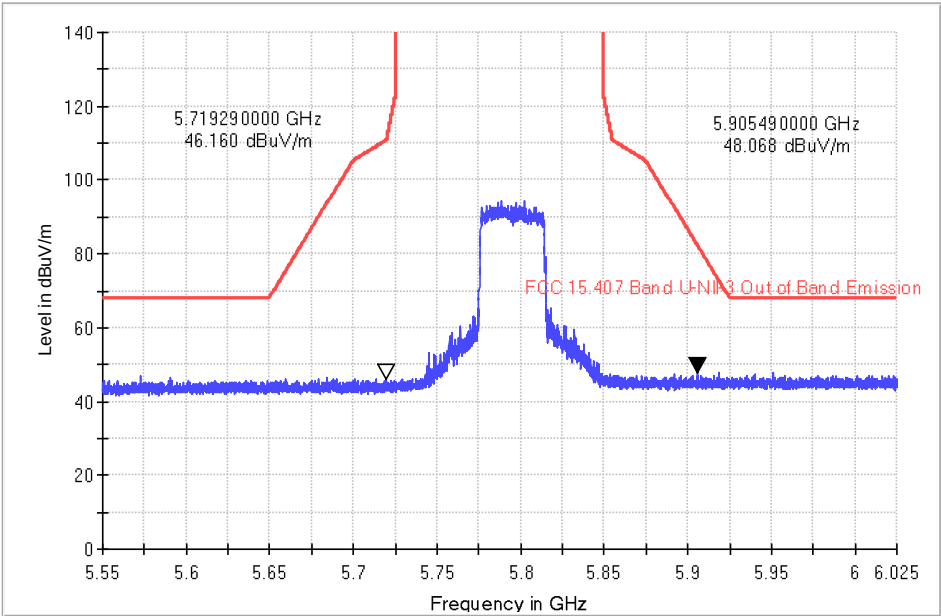
802.11ax40: CH 5795MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

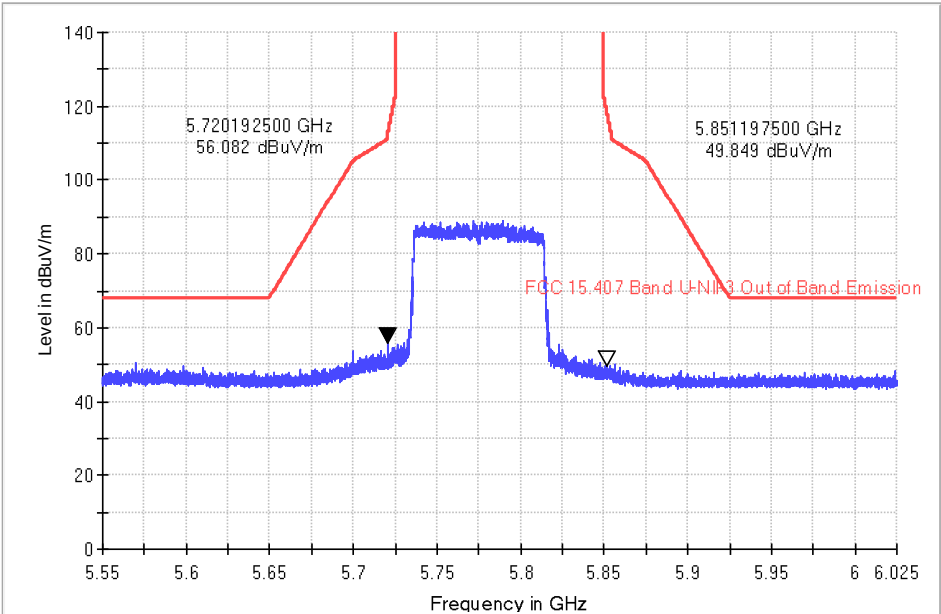
FCC 15.407 U-NII Out of Band Emission





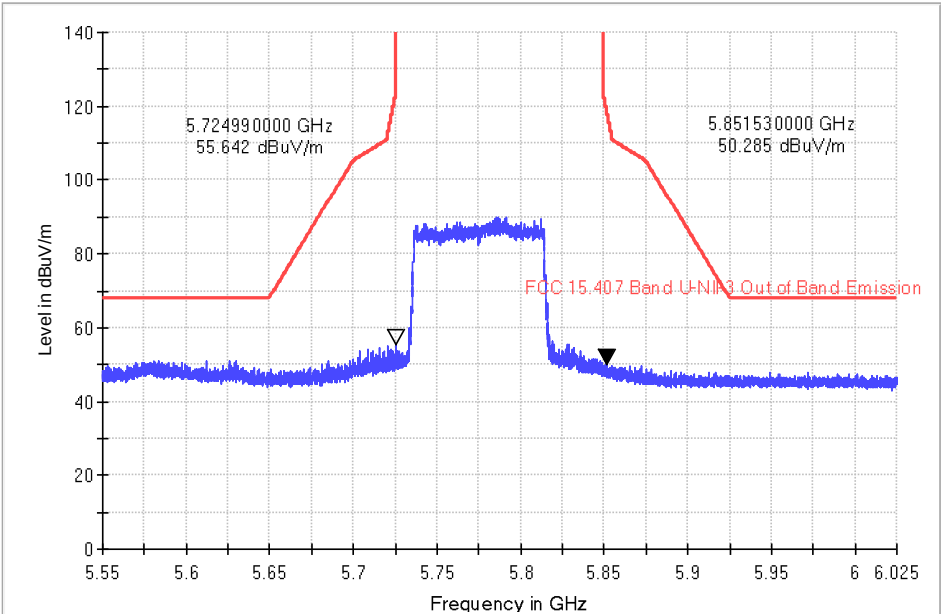
802.11ax80: CH 5775MHz
Horizontal

FCC 15.407 U-NII Out of Band Emission



Vertical

FCC 15.407 U-NII Out of Band Emission



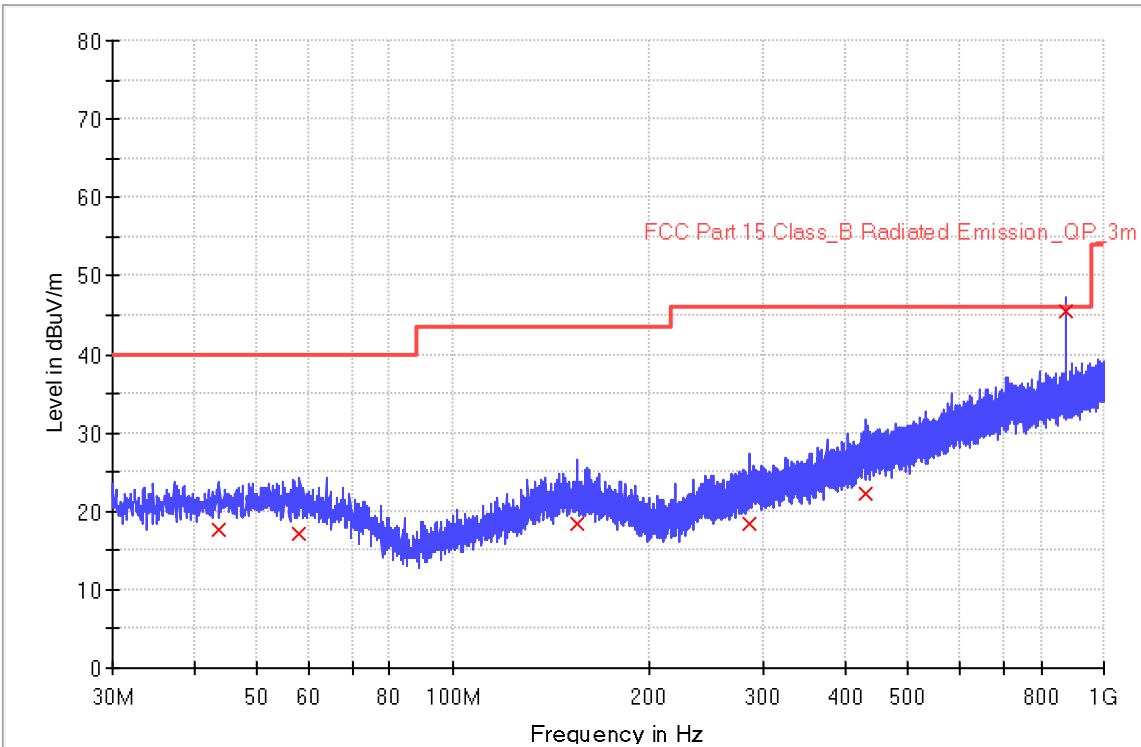


Transmitting spurious emission test result as below:

The worst case of Radiated Emission below 1GHz:

Site: 3 meter chamber	Time: 2024/07/12 - 10:55
Limit: FCC_Part15.209_RE(3m)_ClassB	Engineer: Wenqiang LU
Probe: VULB9168	Polarity: Horizontal
EUT: Cradle, Model no: Cra EW	Power: 120VAC, 60Hz for computer
Note: Transmit by at 802.11ax 20 channel 5785MHz MIMO.	
Note: Pre-scan with three orthogonal axis and the worst case as X axis.	

RE_VULB9168_pre_Cont_30-1000



Limit and Margin

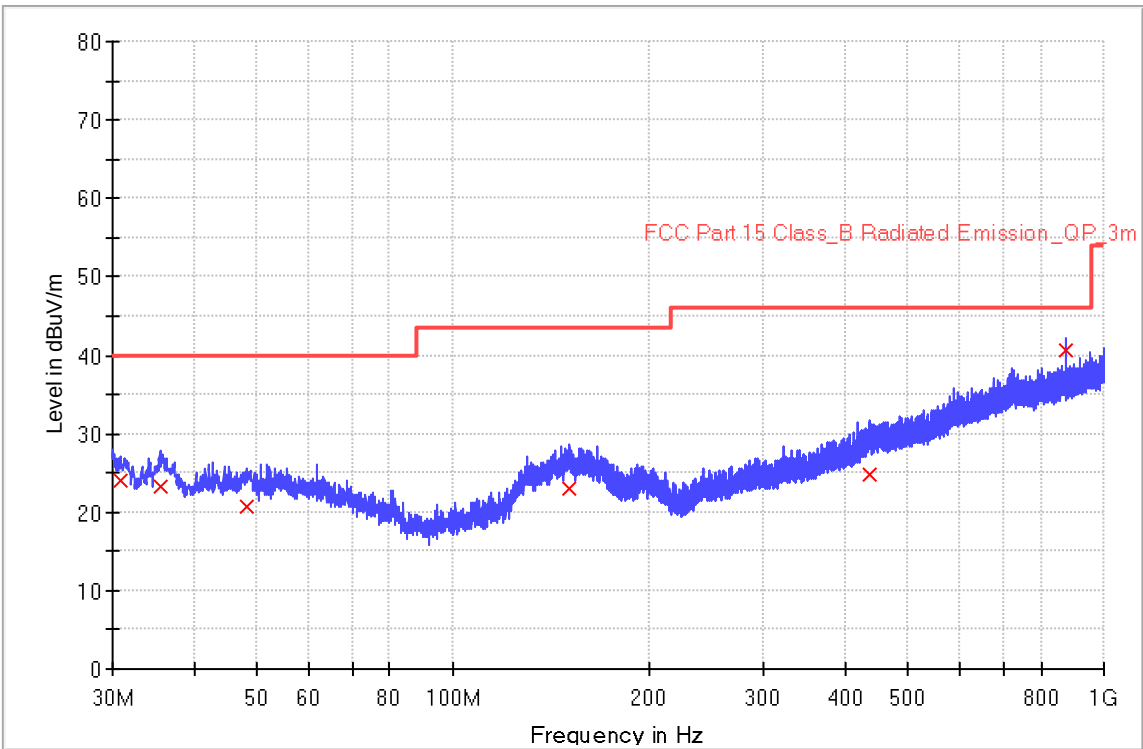
Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
43.520000	17.7	1000.0	120.000	103.0	H	65.0	20.3	22.3	40.0
58.160000	17.1	1000.0	120.000	102.0	H	320.0	20.3	22.9	40.0
155.280000	18.5	1000.0	120.000	201.0	H	120.0	21.0	25.1	43.5
285.440000	18.4	1000.0	120.000	115.0	H	185.0	21.2	27.6	46.0
431.640000	22.3	1000.0	120.000	163.0	H	15.0	25.3	23.7	46.0
875.000000	45.5	1000.0	120.000	158.0	H	359.0	32.8	0.5	46.0



The worst case of Radiated Emission below 1GHz:

Site: 3 meter chamber	Time: 2024/07/12 - 09:03
Limit: FCC_Part15.209_RE(3m)_ClassB	Engineer: Wenqiang LU
Probe: VULB9168	Polarity: Vertical
EUT: Cradle, Model no: Cra EW	Power: 120VAC, 60Hz for computer
Note: Transmit by at 802.11ax 20 channel 5785MHz MIMO.	
Note: Pre-scan with three orthogonal axis and the worst case as X axis.	

RE_VULB9168_pre_Cont_30-1000



Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
30.920000	24.1	1000.0	120.000	105.0	V	203.0	19.3	15.9	40.0
35.480000	23.3	1000.0	120.000	123.0	V	185.0	19.6	16.7	40.0
48.240000	20.7	1000.0	120.000	101.0	V	315.0	20.5	19.3	40.0
150.960000	22.9	1000.0	120.000	132.0	V	47.0	20.9	20.6	43.5
436.480000	24.9	1000.0	120.000	111.0	V	84.0	25.6	21.1	46.0
875.000000	40.5	1000.0	120.000	112.0	V	95.0	32.8	5.5	46.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

10 Test Equipment List

List of Test Instruments
Test Site1

	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE
C	Wideband Radio Communication Tester	R&S	CMW500	S2110416b-YQ-EMC	2023-11-10	2024-11-9
	Vector signal generator	Agilent	N5182A	S2110417b-YQ-EMC	2023-11-10	2024-11-9
	RF automatic control unit	MWRFTest	MW100-RFCB	S2110418b-YQ-EMC	2023-9-28	2024-9-27
	Temperature Chamber	Shanghai HUCAN	HTT-100AP	S2201430b-YQ-EMC	2024-2-29	2025-2-28
	Signal Analyzer	R & S	FSV40	S1503003-YQ-EMC	2023-8-1	2024-7-31
	Signal Analyzer	R & S	FSV40	S1503003-YQ-EMC	2024-8-1	2025-7-31
RE	EMI Test Receiver	Rohde & Schwarz	ESR3	101906	2023-8-1	2024-7-31
	EMI Test Receiver	Rohde & Schwarz	ESR3	101906	2024-8-1	2025-7-31
	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2023-8-1	2024-7-31
	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2024-8-1	2025-7-31
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	961	2021-9-23	2024-9-22
	Double-ridged waveguide horn antenna	Rohde & Schwarz	HF907	102393	2024-4-14	2025-4-13
	Pre-amplifier	Shenzhen HzEMC	HPA-081843	HYP A23026	2024-4-16	2025-4-15
	Loop antenna	Rohde & Schwarz	HFH2-Z2	100443	2024-6-26	2025-6-25
	Double Ridged Horn Antenna	ETS-Lindgren	3116C	00246076	2023-7-7	2026-7-6
	3m Semi-anechoic chamber	TDK	9X6X6	----	2024-5-8	2027-5-7
	EMI Test Receiver	Rohde & Schwarz	ESR3	101907	2023-8-1	2024-7-31
CE	EMI Test Receiver	Rohde & Schwarz	ESR3	101907	2024-8-1	2025-7-31
	LISN	Rohde & Schwarz	ENV216	101924	2023-8-1	2024-7-31
	LISN	Rohde & Schwarz	ENV216	101924	2024-8-1	2025-7-31
	LISN	Rohde & Schwarz	ENV216	101924	2024-8-1	2025-7-31



Measurement Software Information			
Test Item	Software	Manufacturer	Version
C	MTS 8310	MWRFTtest	3.0.0.0
RE	EMC 32	Rohde & Schwarz	V10.50.40
CE	EMC 32	Rohde & Schwarz	V9.15.03

C - Conducted RF tests

- Conducted peak output power
- 6dB Occupied Bandwidth
- Power spectral density*
- Conducted Band Edge and Out-of-Band Emissions



11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, $\pm 3.16\text{dB}$
Radiated Disturbance	30MHz to 1GHz, $\pm 5.03\text{dB}$ (Horizontal) $\pm 5.12\text{dB}$ (Vertical) 1GHz to 18GHz, $\pm 5.15\text{dB}$ (Horizontal) $\pm 5.12\text{dB}$ (Vertical) 18GHz to 25GHz, $\pm 4.76\text{dB}$

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3.



12 Photographs of Test Set-ups

Refer to the < Test Setup photos >.



13 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

THE END