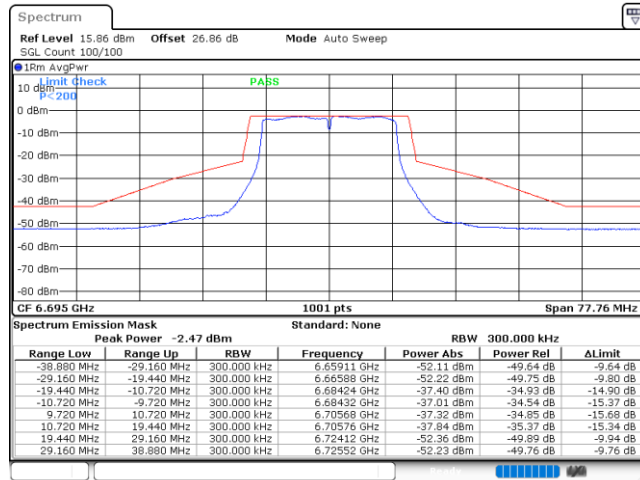
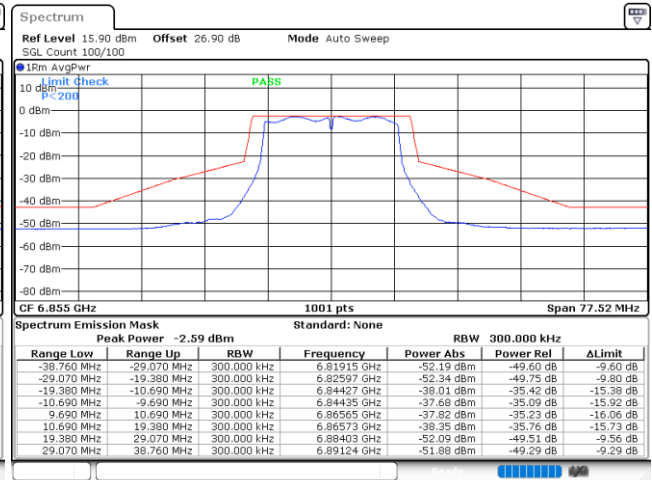




Plot on Channel 6695 MHz



Plot on Channel 6855 MHz

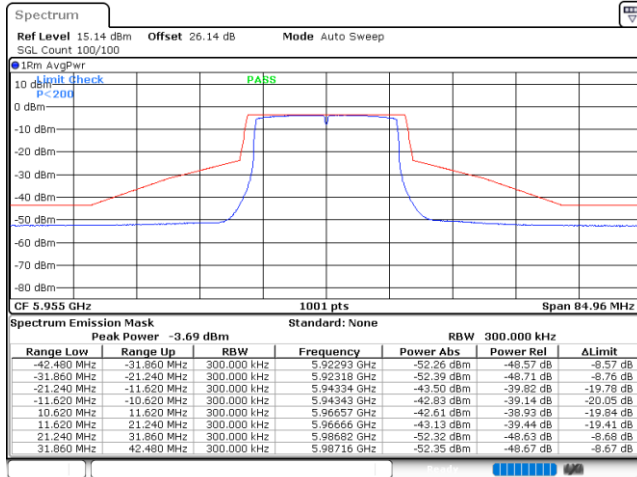




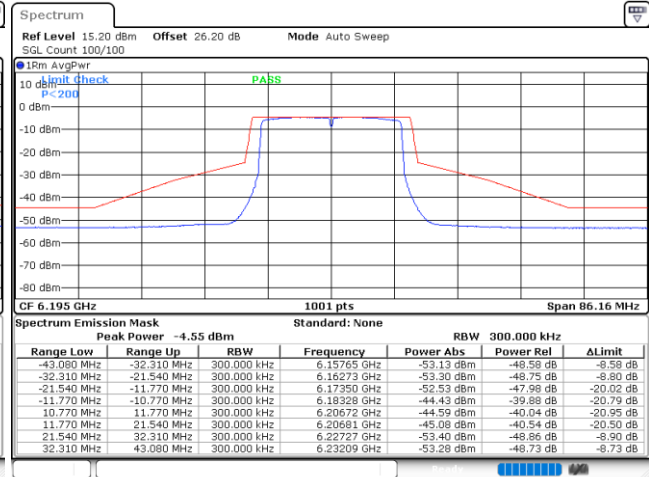
EUT Mode

802.11ax HE20 Full RU

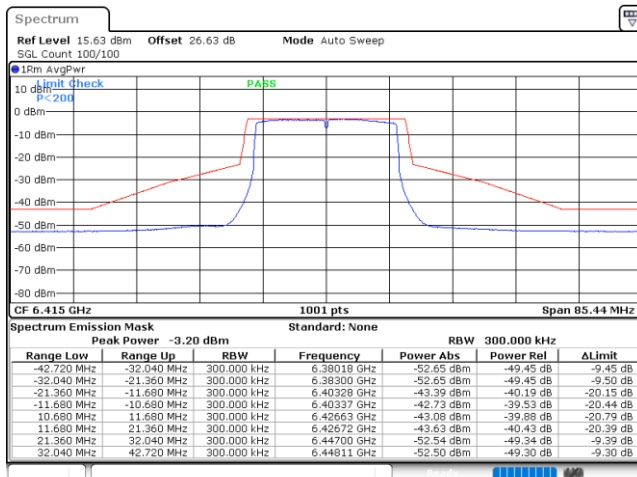
Plot on Channel 5955 MHz



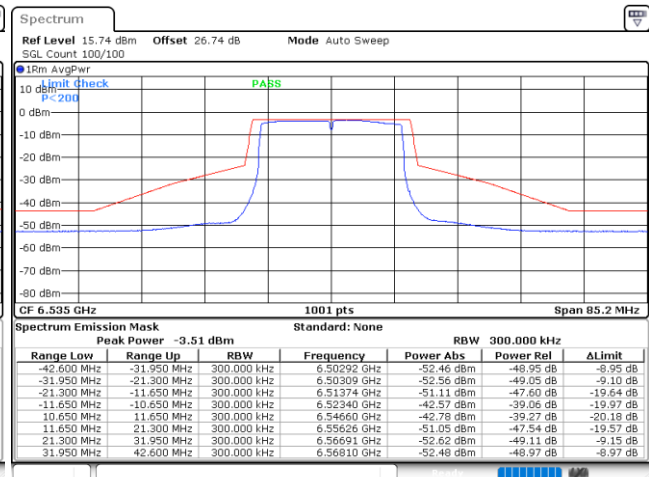
Plot on Channel 6195 MHz



Plot on Channel 6415 MHz

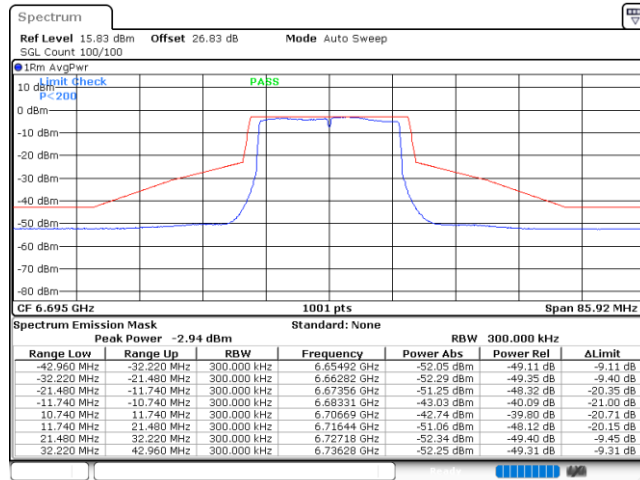


Plot on Channel 6535 MHz

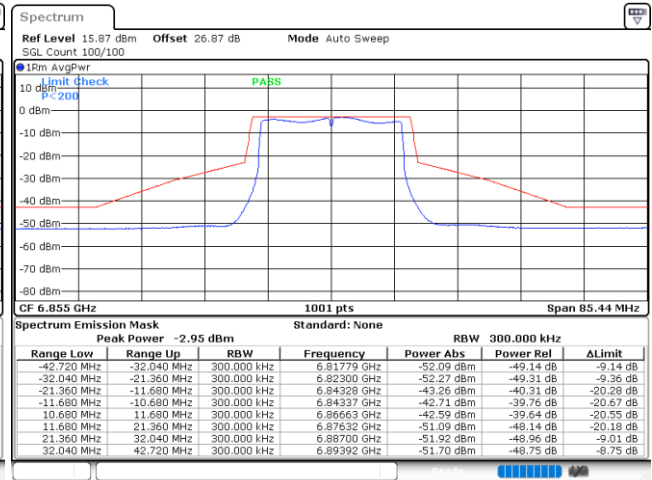




Plot on Channel 6695 MHz



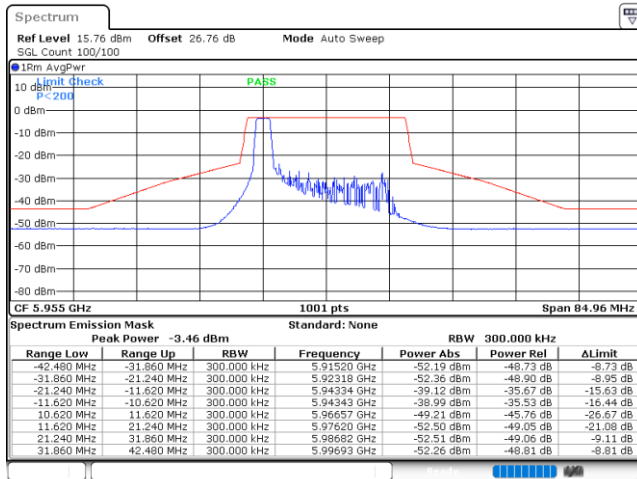
Plot on Channel 6855 MHz





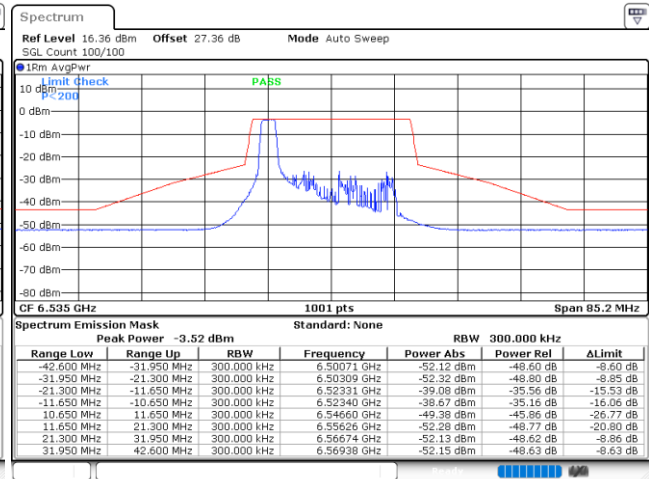
EUT Mode 802.11ax HE20 26RU0

Plot on Channel 5955 MHz



Date: 9.AUG.2023 11:22:59

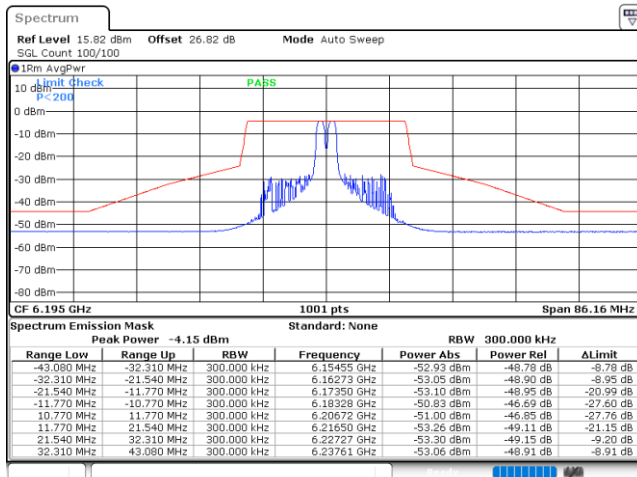
Plot on Channel 6535 MHz



Date: 9.AUG.2023 14:24:50

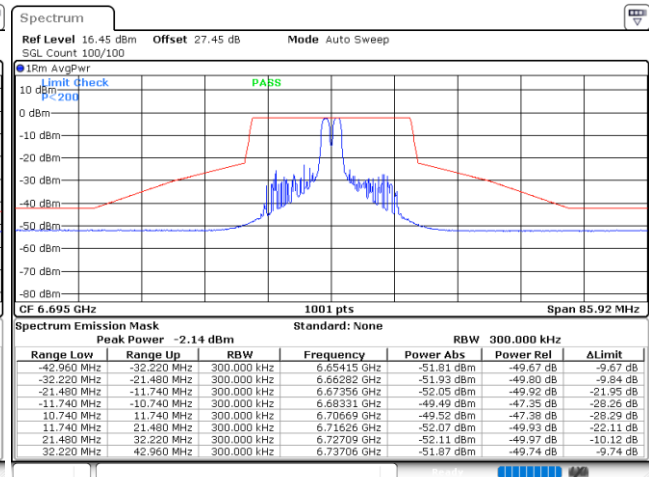
EUT Mode 802.11ax HE20 26RU4

Plot on Channel 6195 MHz



Date: 9.AUG.2023 11:44:34

Plot on Channel 6695 MHz

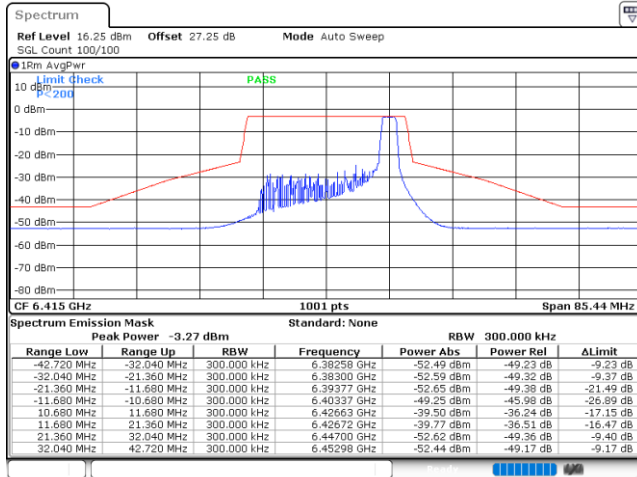


Date: 9.AUG.2023 14:32:53



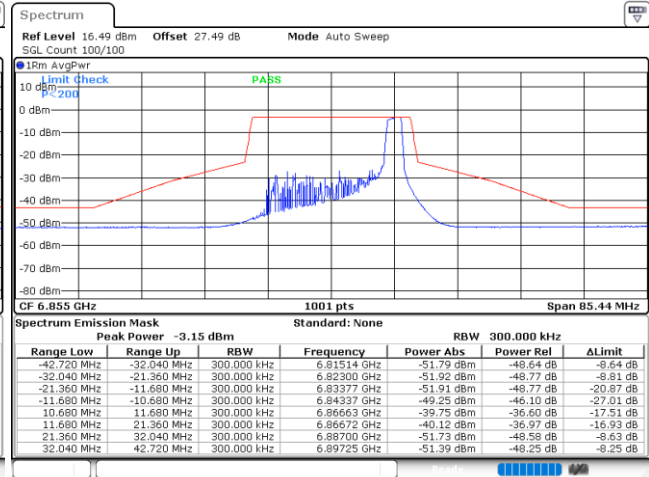
EUT Mode 802.11ax HE20 26RU8

Plot on Channel 6415 MHz



Date: 9.AUG.2023 11:53:24

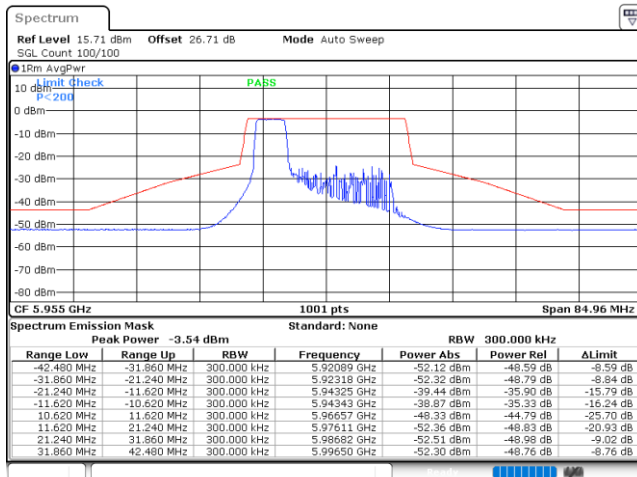
Plot on Channel 6855 MHz



Date: 9.AUG.2023 14:42:28

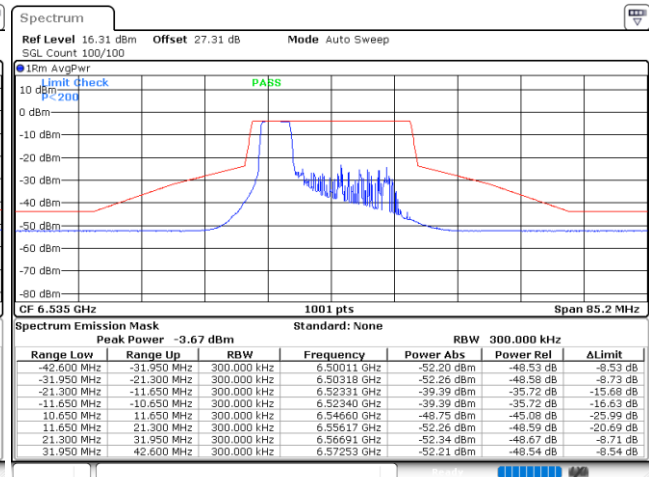
EUT Mode 802.11ax HE20 52RU37

Plot on Channel 5955 MHz



Date: 9.AUG.2023 15:11:44

Plot on Channel 6535 MHz

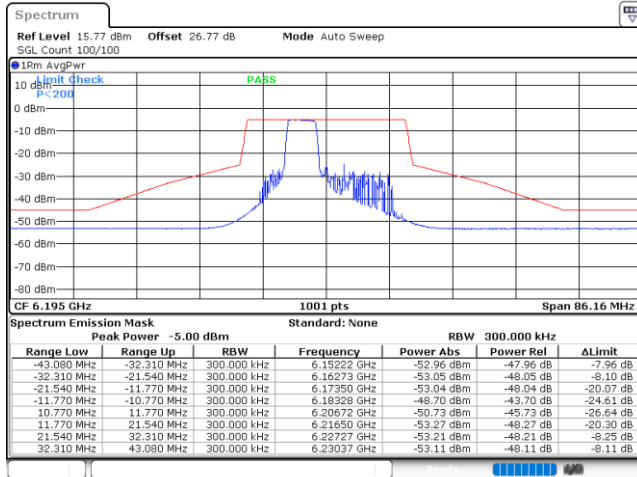


Date: 9.AUG.2023 16:56:00



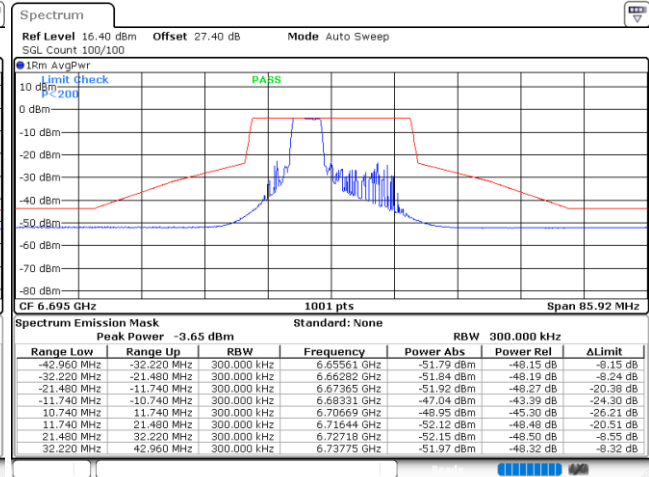
EUT Mode 802.11ax HE20 52RU38

Plot on Channel 6195 MHz



Date: 9.AUG.2023 15:20:34

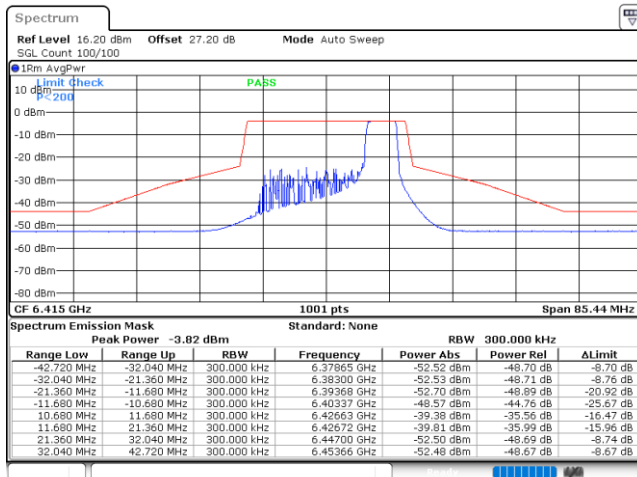
Plot on Channel 6695 MHz



Date: 9.AUG.2023 17:17:18

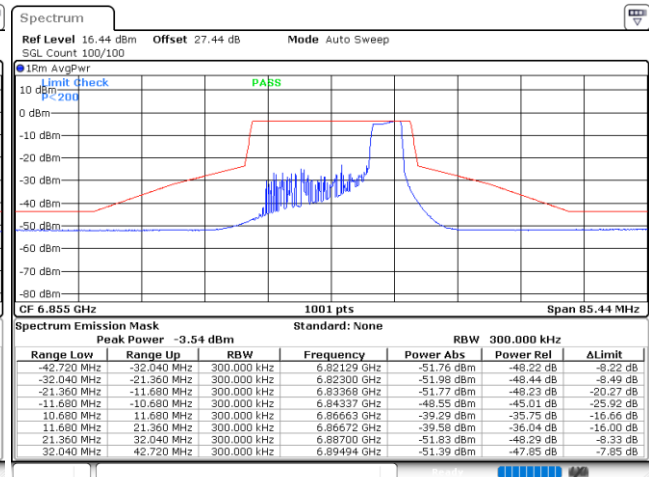
EUT Mode 802.11ax HE20 52RU40

Plot on Channel 6415 MHz



Date: 9.AUG.2023 15:33:27

Plot on Channel 6855 MHz



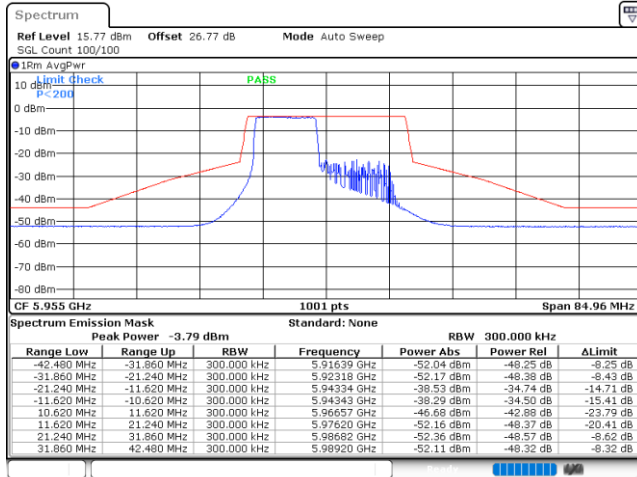
Date: 9.AUG.2023 17:23:05



EUT Mode

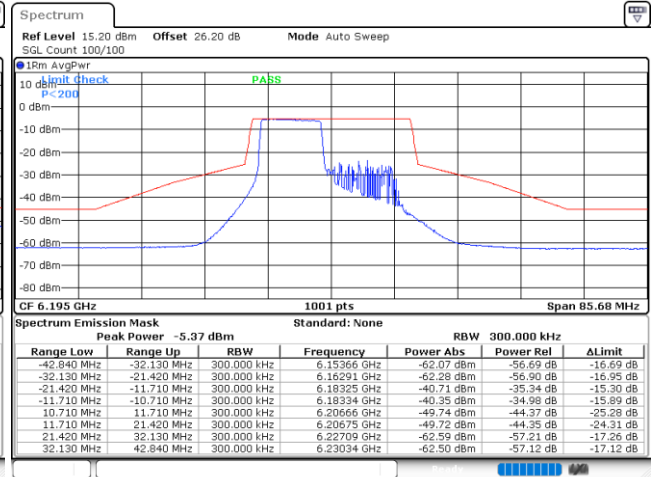
802.11ax HE20 106RU53

Plot on Channel 5955 MHz



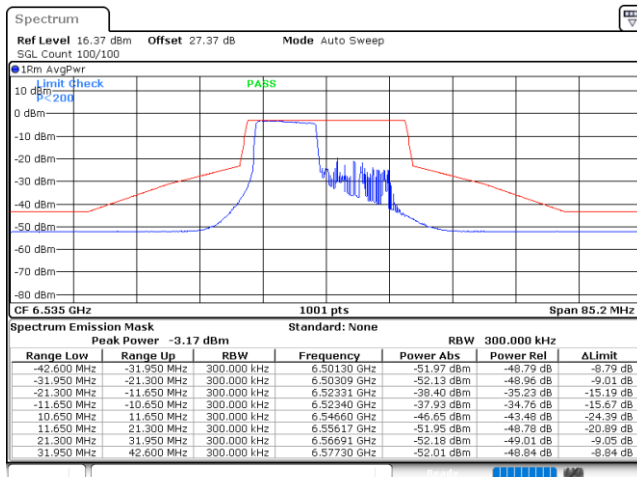
Date: 10.AUG.2023 10:33:30

Plot on Channel 6195 MHz



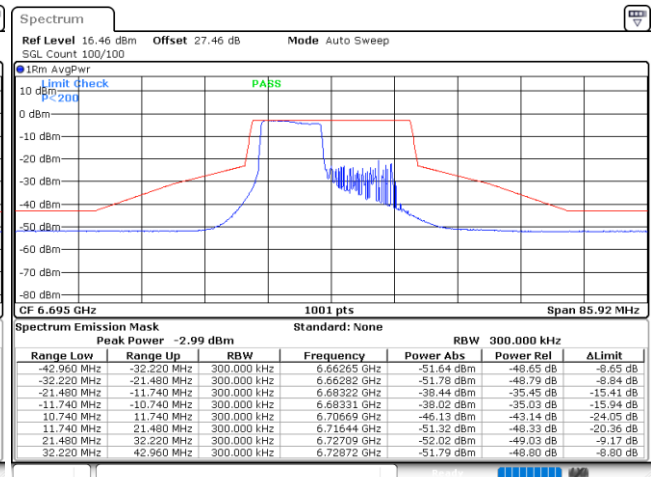
Date: 11.AUG.2023 20:32:43

Plot on Channel 6535 MHz



Date: 10.AUG.2023 11:46:10

Plot on Channel 6695 MHz



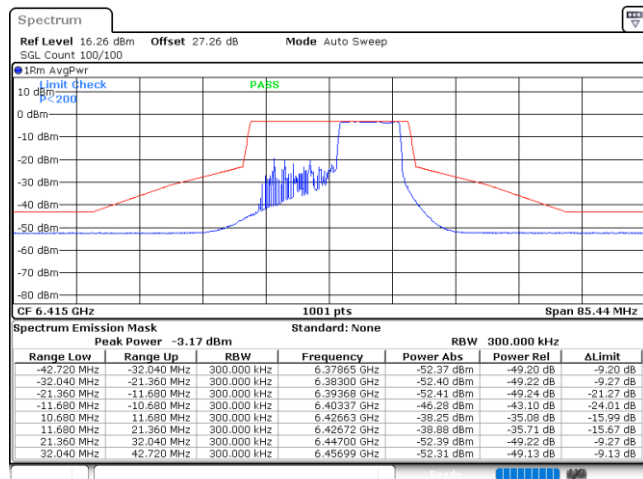
Date: 10.AUG.2023 12:05:31



EUT Mode

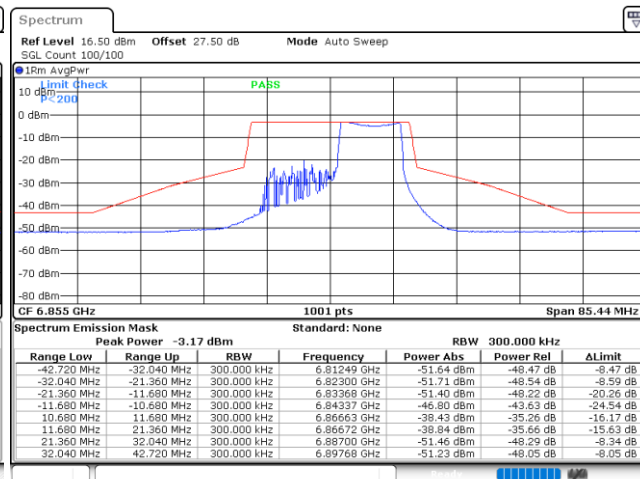
802.11ax HE20 106RU54

Plot on Channel 6415 MHz



Date: 10.AUG.2023 10:58:59

Plot on Channel 6855 MHz



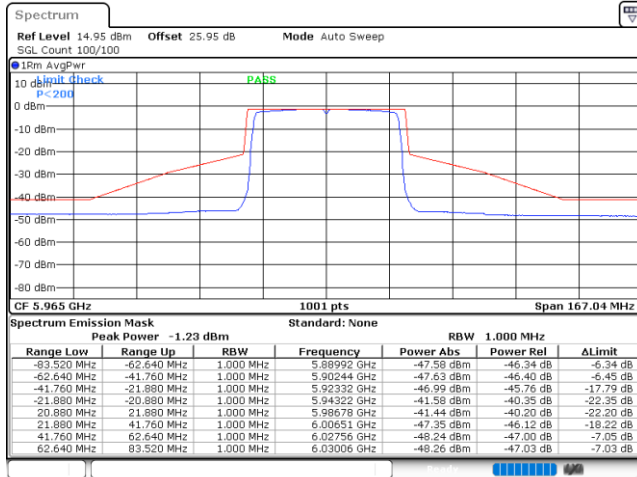
Date: 10.AUG.2023 13:52:44



EUT Mode

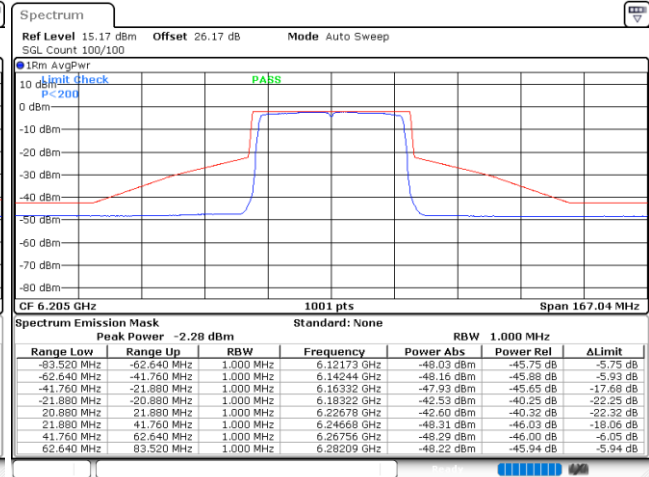
802.11ax HE40 Full RU

Plot on Channel 5965 MHz



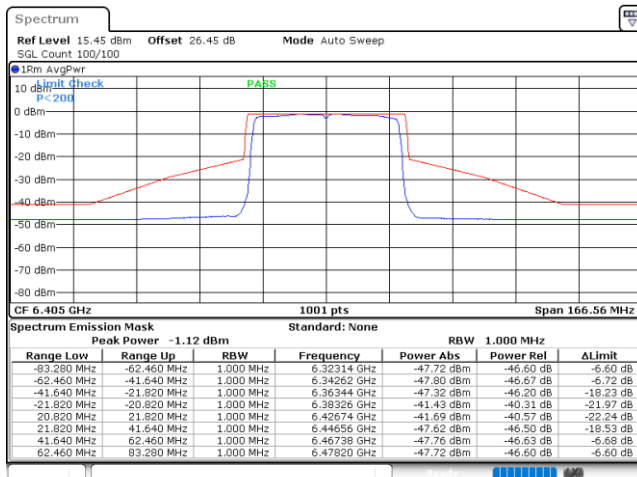
Date: 8.AUG.2023 16:42:33

Plot on Channel 6205 MHz



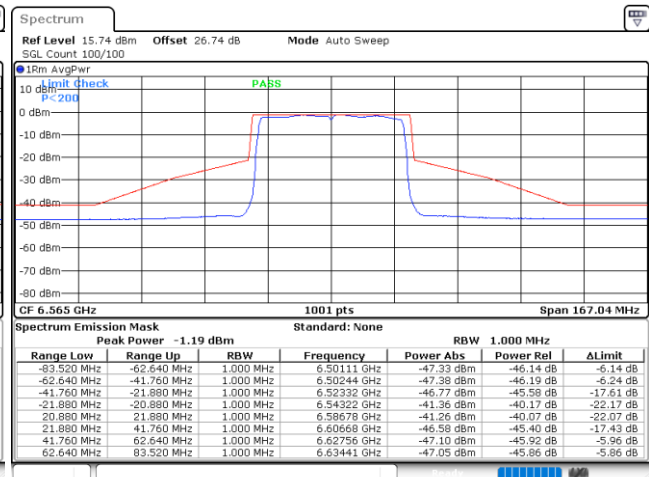
Date: 8.AUG.2023 16:44:11

Plot on Channel 6405 MHz



Date: 8.AUG.2023 16:52:13

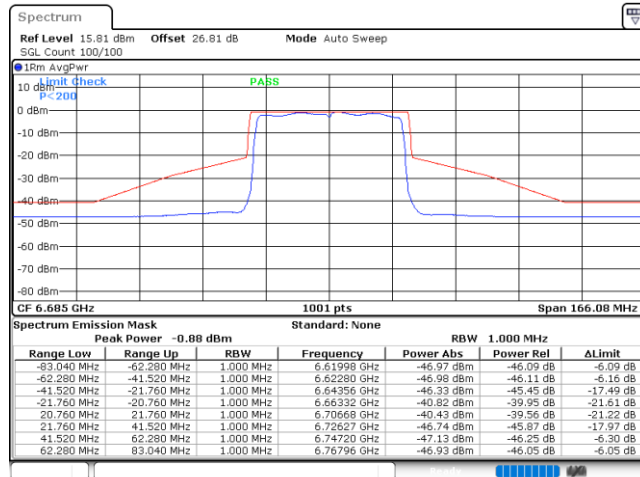
Plot on Channel 6565 MHz



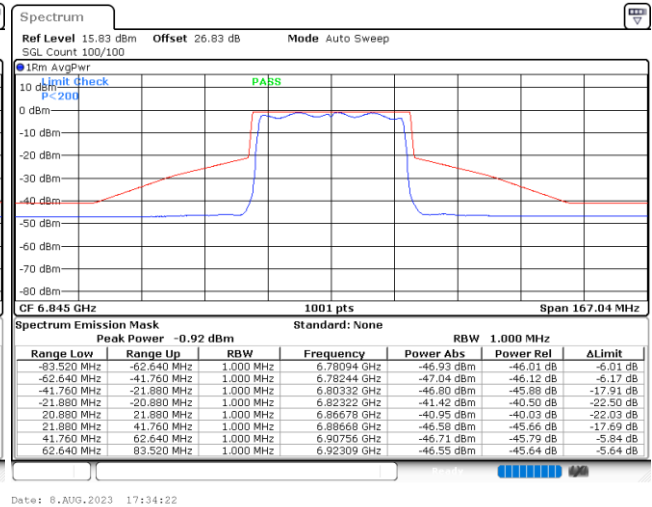
Date: 8.AUG.2023 17:25:04



Plot on Channel 6685 MHz



Plot on Channel 6845 MHz

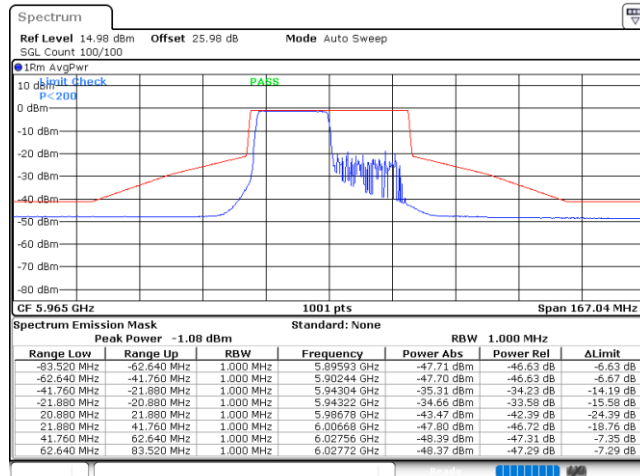




EUT Mode

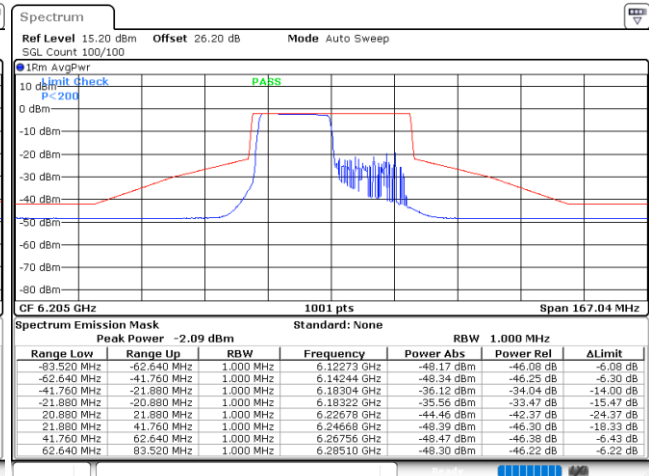
802.11ax HE40 242RU61

Plot on Channel 5965 MHz



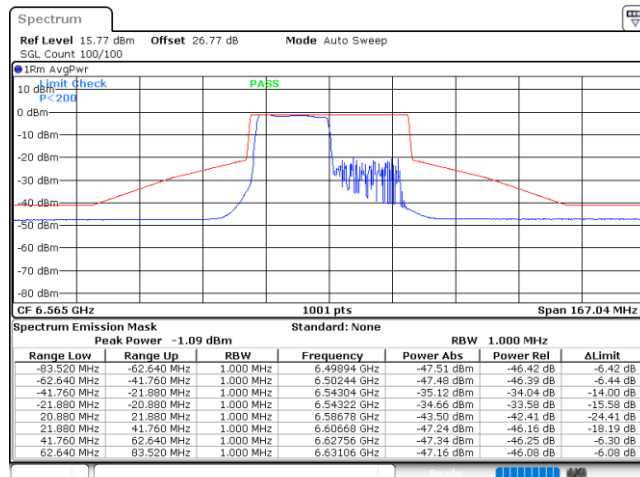
Date: 10.AUG.2023 14:22:25

Plot on Channel 6205 MHz



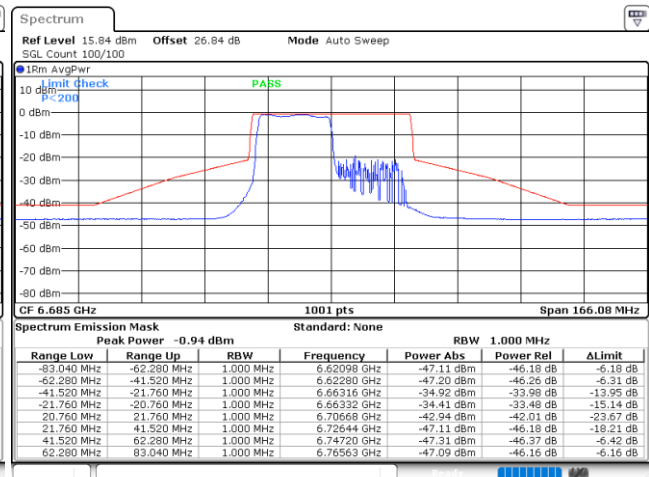
Date: 10.AUG.2023 14:26:00

Plot on Channel 6565 MHz



Date: 10.AUG.2023 14:53:34

Plot on Channel 6685 MHz



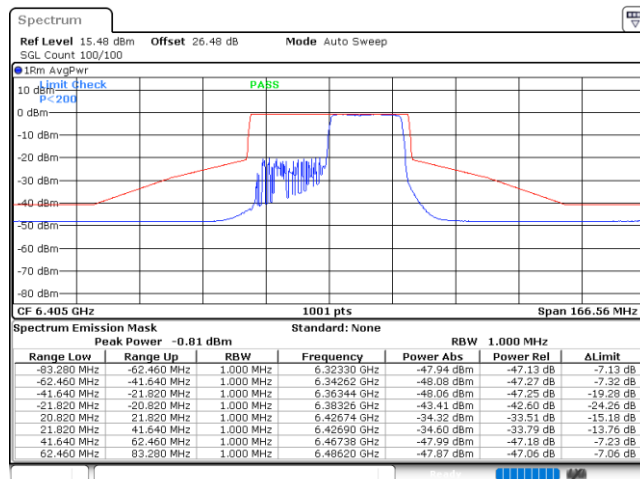
Date: 10.AUG.2023 14:58:03



EUT Mode

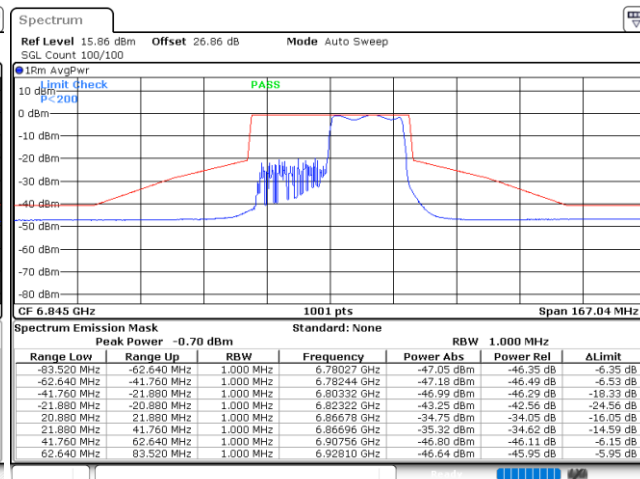
802.11ax HE40 242RU62

Plot on Channel 6405 MHz



Date: 10.AUG.2023 14:32:17

Plot on Channel 6845 MHz



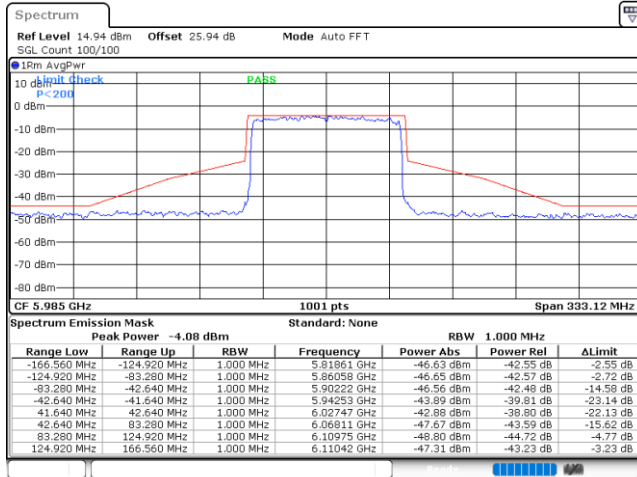
Date: 10.AUG.2023 15:02:25



EUT Mode

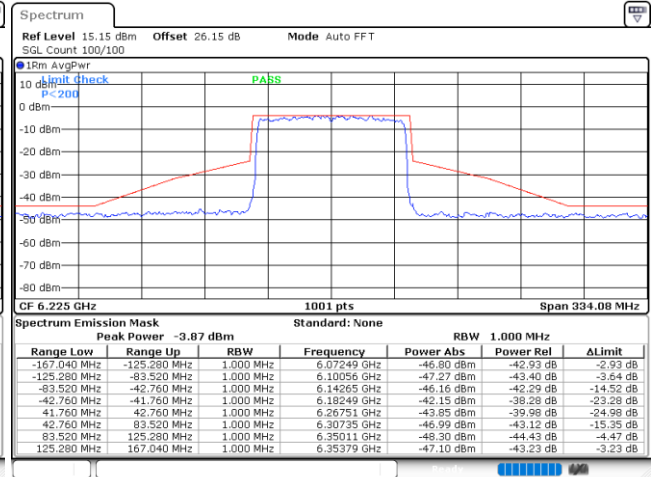
802.11ax HE80 Full RU

Plot on Channel 5985 MHz



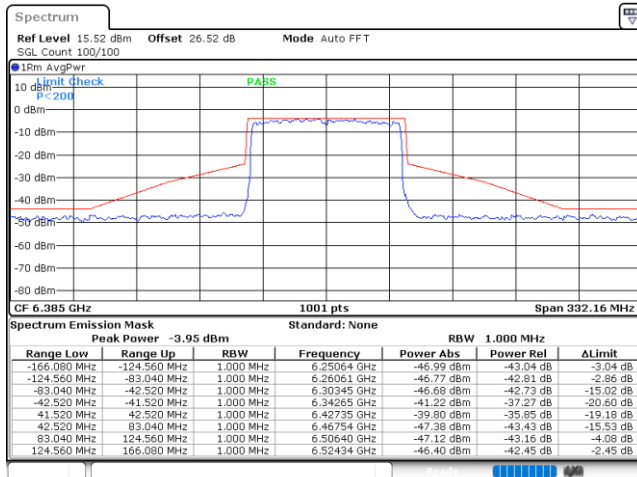
Date: 8.AUG.2023 17:48:16

Plot on Channel 6225 MHz



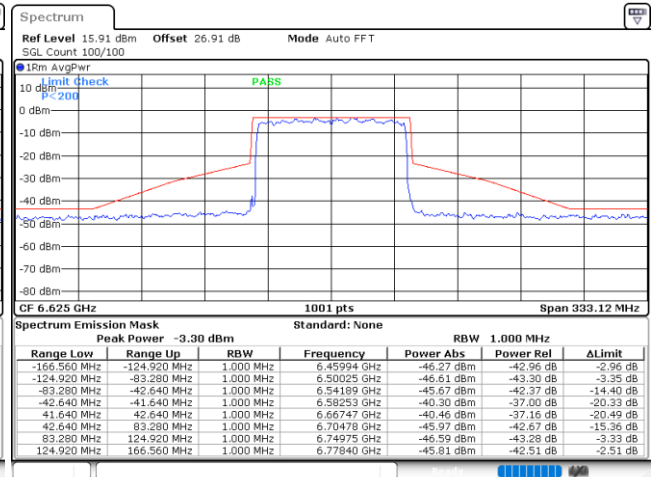
Date: 8.AUG.2023 17:53:48

Plot on Channel 6385 MHz



Date: 8.AUG.2023 17:58:41

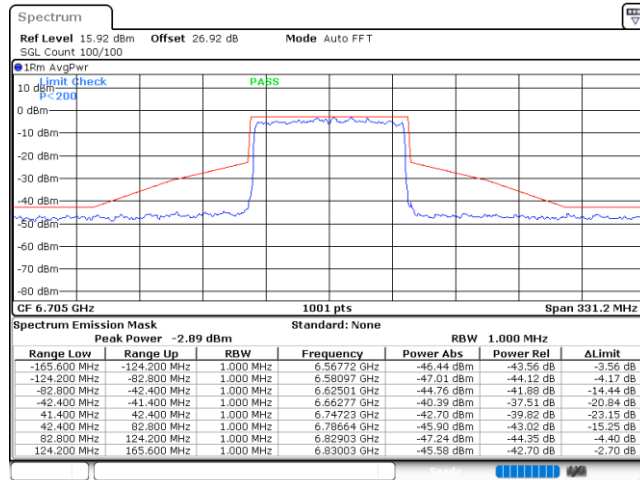
Plot on Channel 6625 MHz



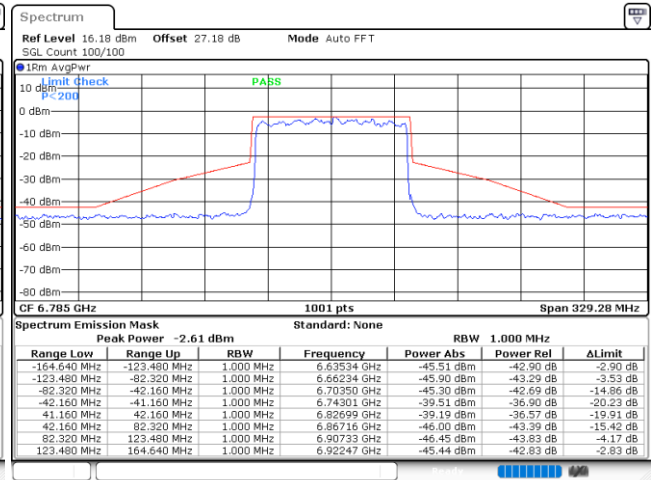
Date: 9.AUG.2023 09:41:53



Plot on Channel 6705 MHz



Plot on Channel 6785 MHz

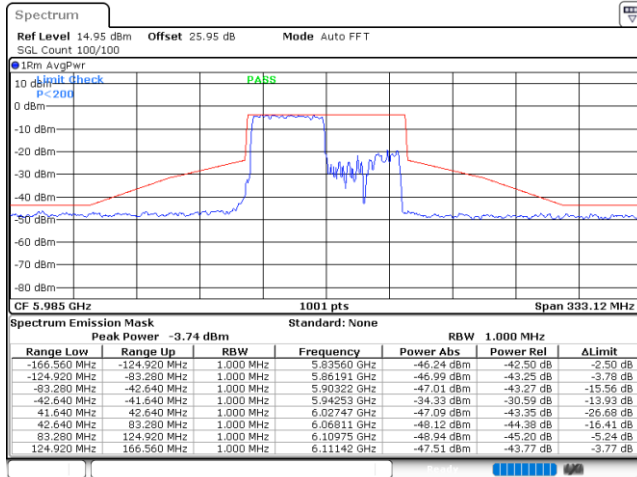




EUT Mode

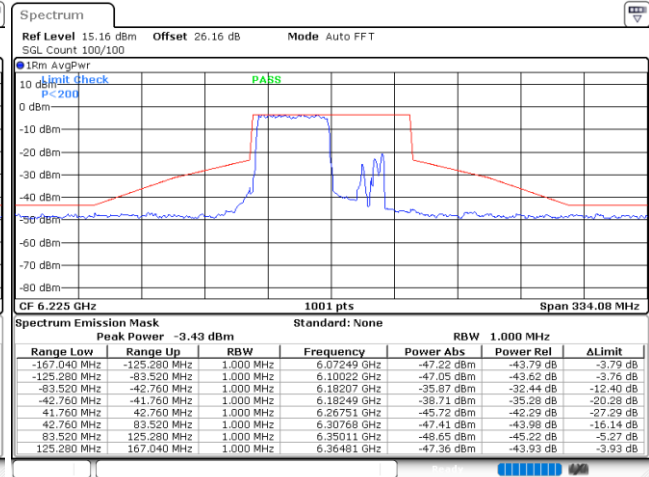
802.11ax HE80 484RU65

Plot on Channel 5985 MHz



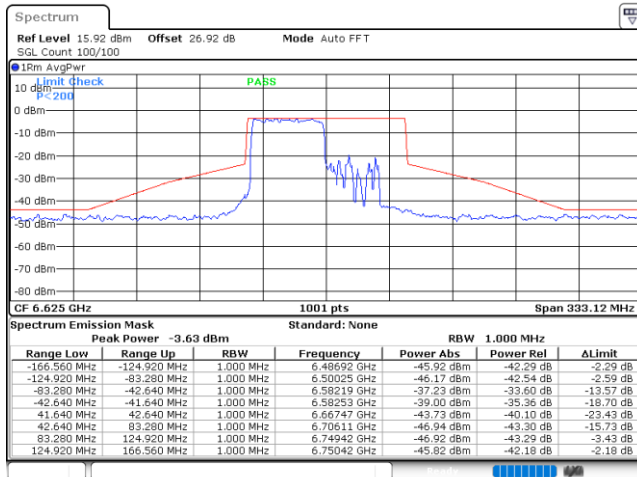
Date: 10.AUG.2023 15:23:34

Plot on Channel 6225 MHz



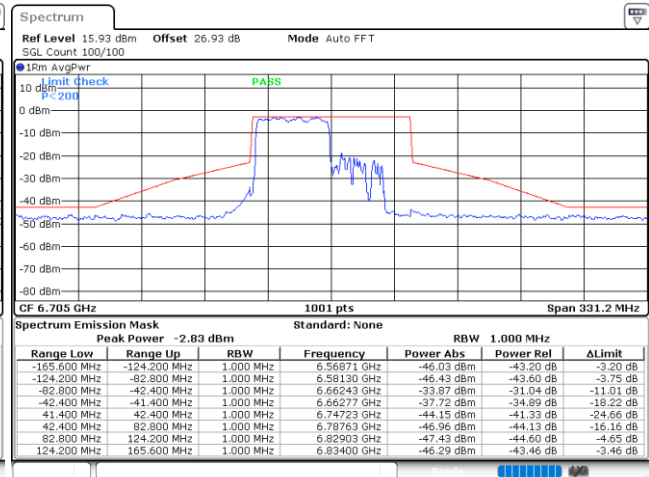
Date: 10.AUG.2023 15:31:59

Plot on Channel 6625 MHz



Date: 10.AUG.2023 16:02:56

Plot on Channel 6705 MHz



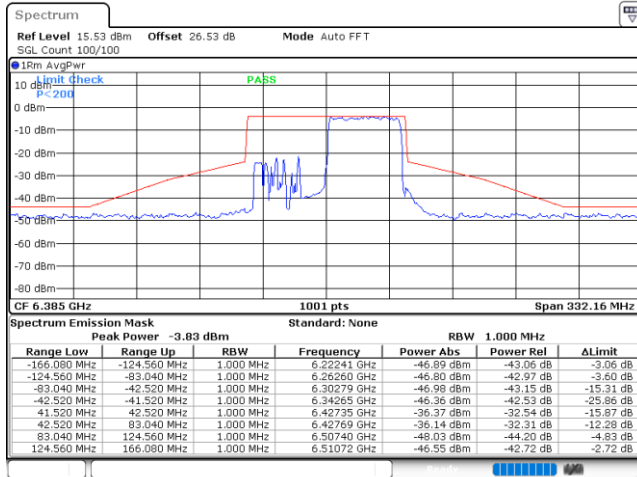
Date: 10.AUG.2023 16:15:16



EUT Mode

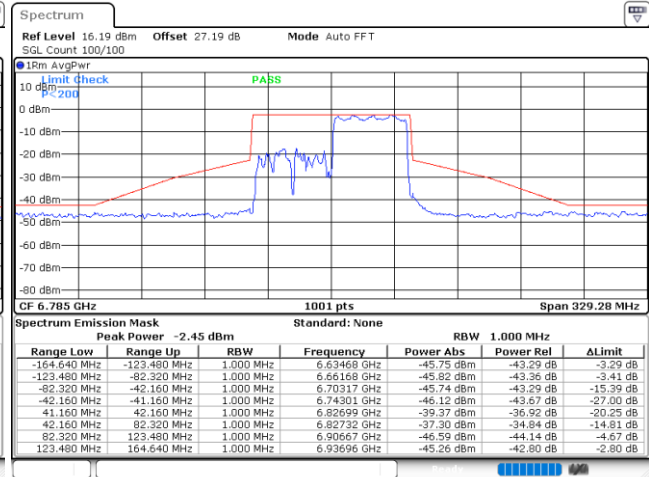
802.11ax HE80 484RU66

Plot on Channel 6385 MHz



Date: 10.AUG.2023 15:37:29

Plot on Channel 6785 MHz



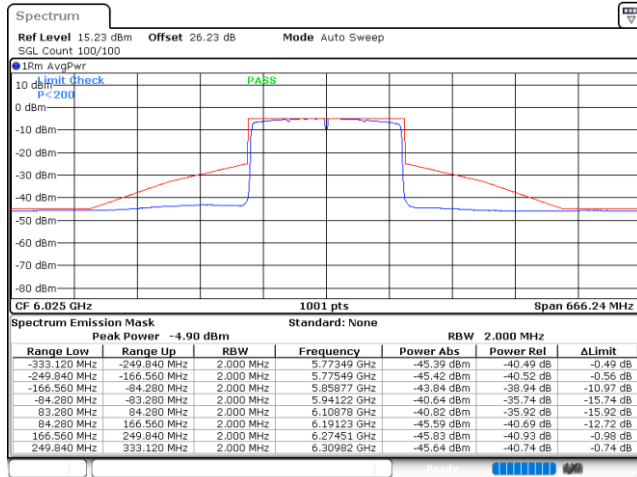
Date: 10.AUG.2023 16:20:54



EUT Mode

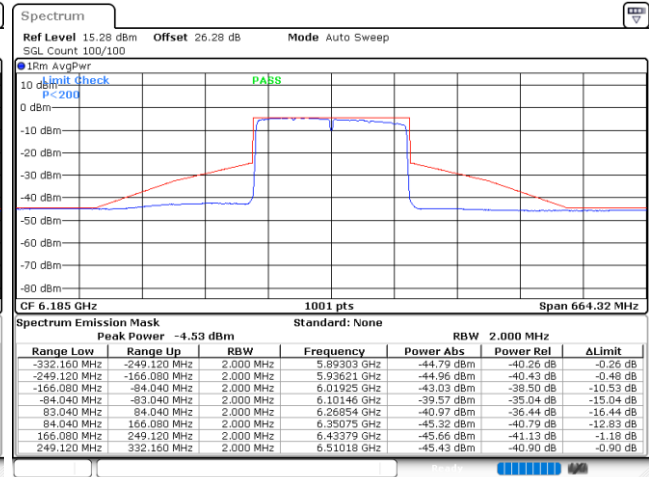
802.11ax HE160 Full RU

Plot on Channel 6025 MHz



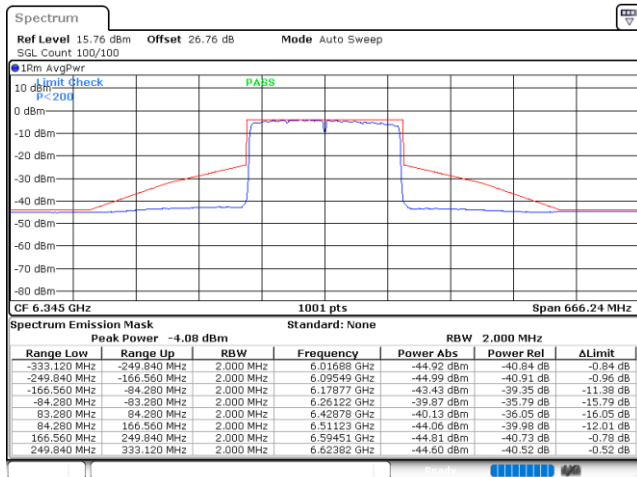
Date: 9.AUG.2023 09:54:44

Plot on Channel 6185 MHz



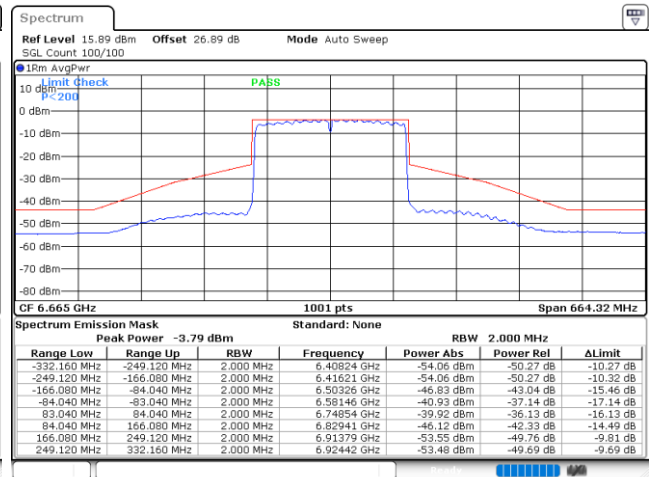
Date: 9.AUG.2023 10:00:34

Plot on Channel 6345 MHz



Date: 9.AUG.2023 10:03:11

Plot on Channel 6665 MHz



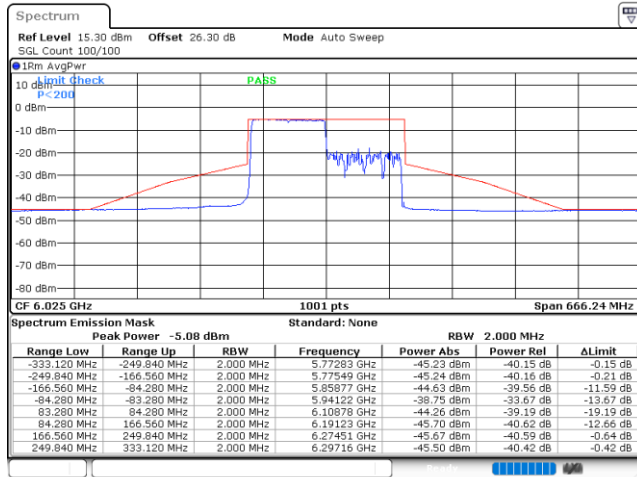
Date: 9.AUG.2023 10:11:39



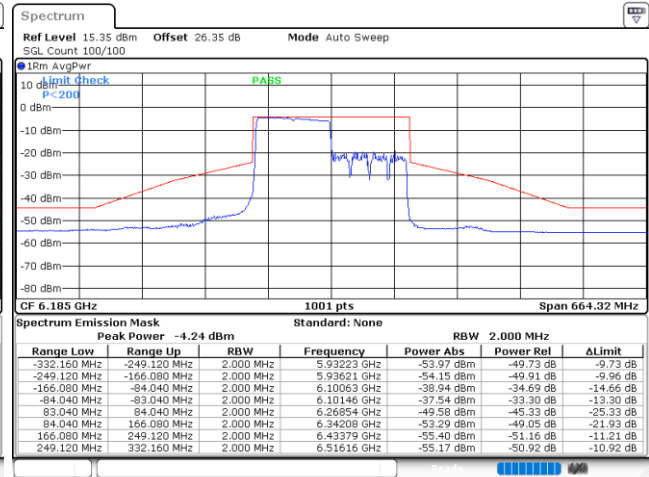
EUT Mode

802.11ax HE160 996RU67

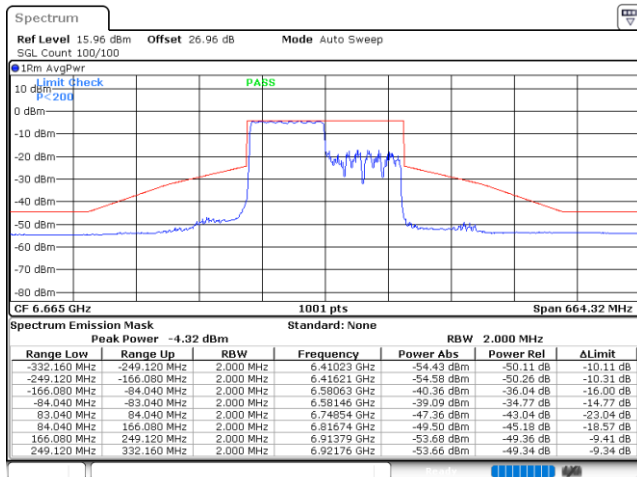
Plot on Channel 6025 MHz



Plot on Channel 6185 MHz



Plot on Channel 6665 MHz

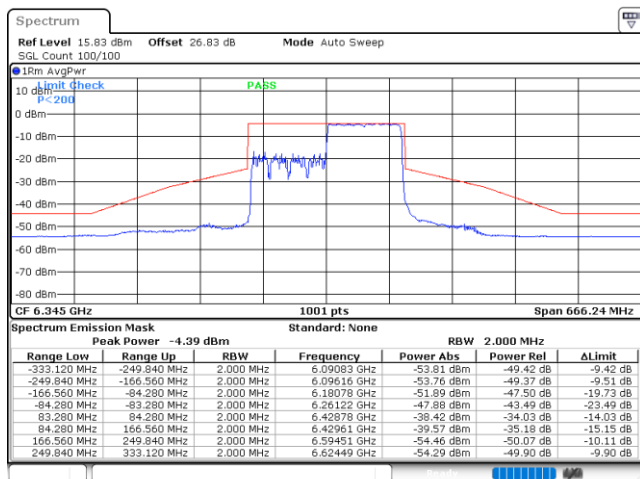




EUT Mode

802.11ax HE160 996RUS67

Plot on Channel 6345 MHz



Date: 10.AUG.2023 16:58:32

3.5 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.5.1 Limit of Unwanted Emissions

- (1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

According 987594 D02 U-NII 6GHz EMC Measurement v01 section G:

Unwanted emissions outside of restricted bands are measured with a RMS detector.

In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

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

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

3.5.2 Measuring Instruments

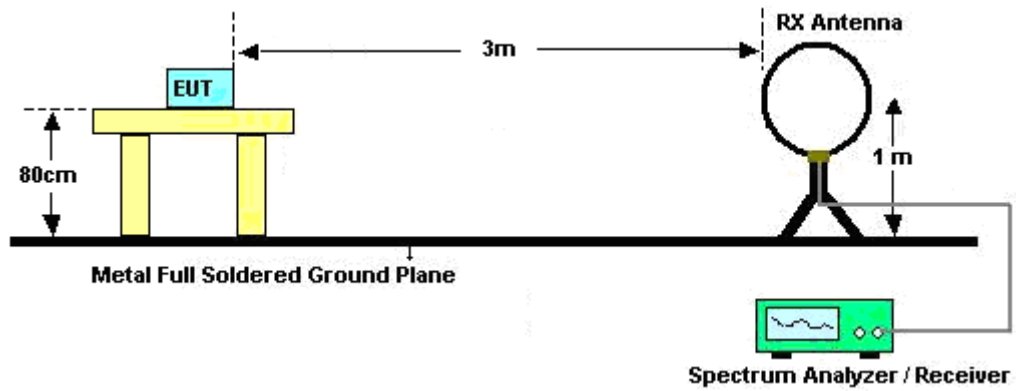
Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

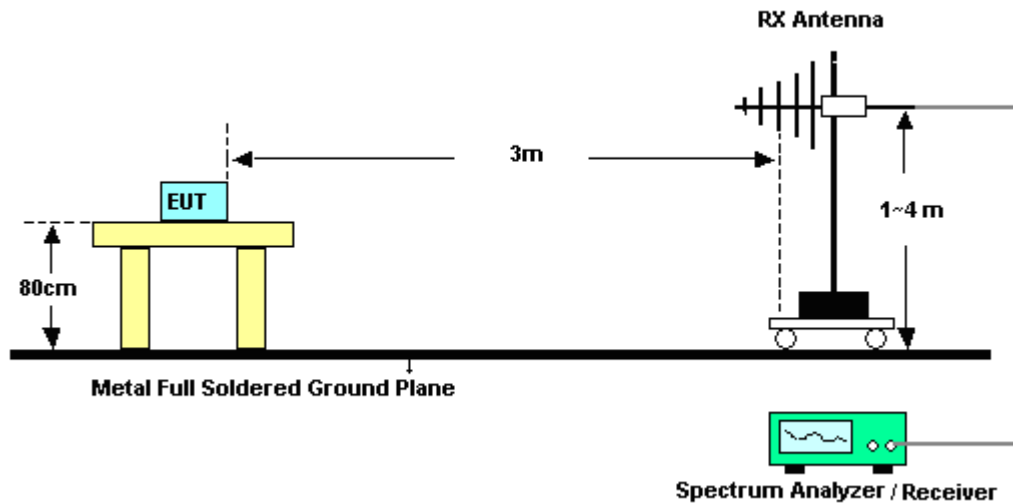
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
(1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

3.5.4 Test Setup

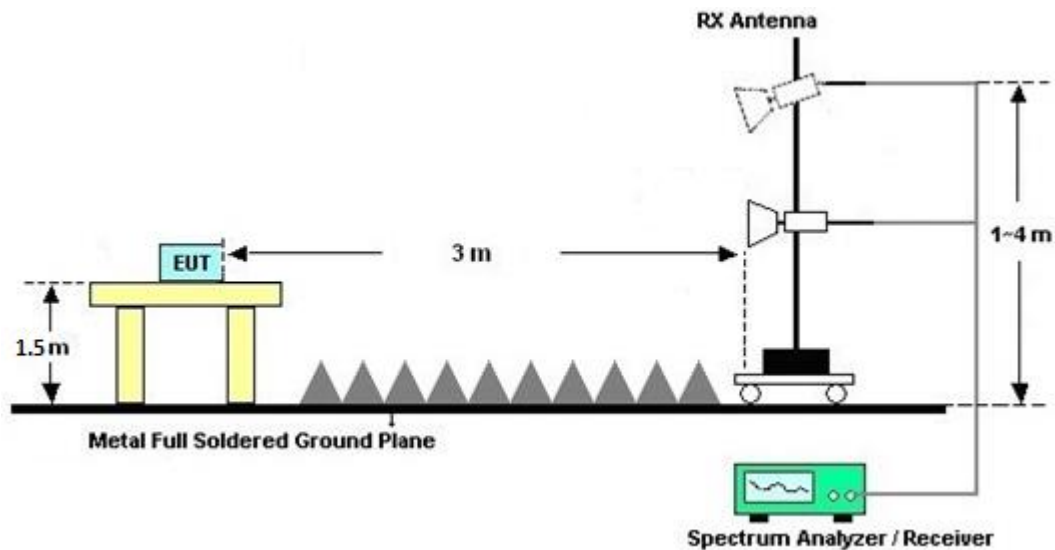
For radiated emissions below 30MHz



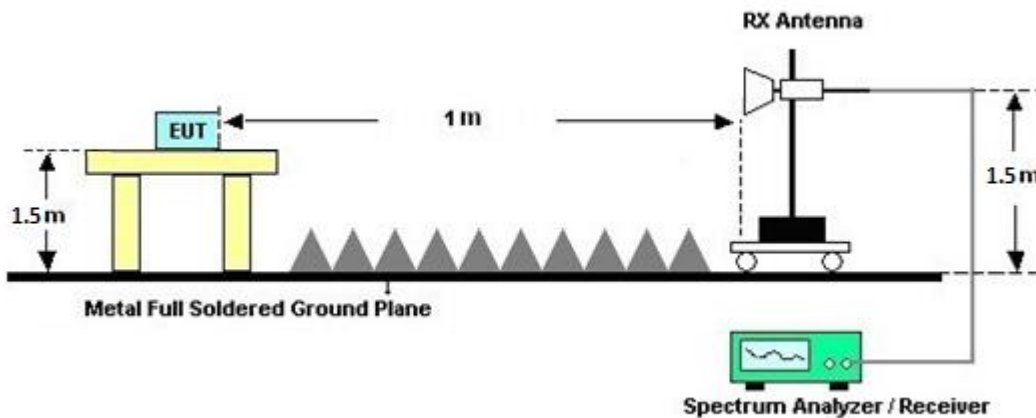
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

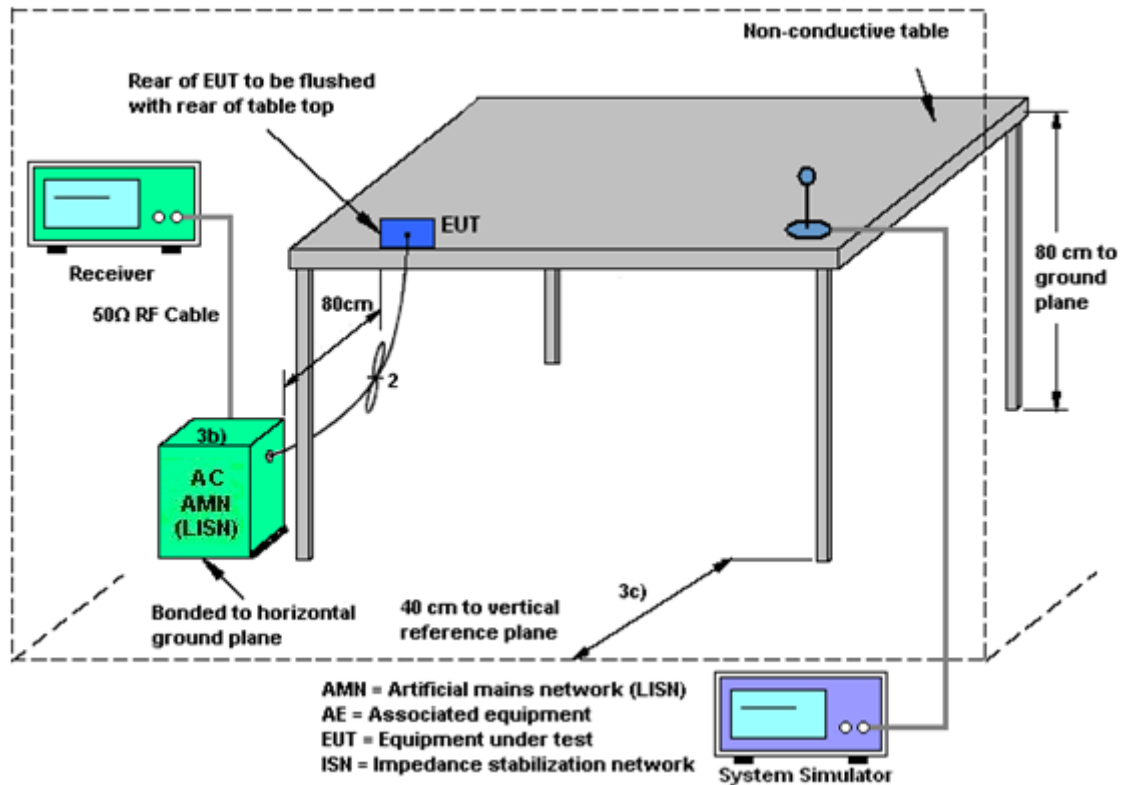
3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY59053012	N/A	Nov. 18, 2022	Jul. 18, 2023 ~ Sep. 08, 2023	Nov. 17, 2023	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Jul. 18, 2023 ~ Sep. 08, 2023	Sep. 19, 2023	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2022	Jul. 18, 2023 ~ Sep. 08, 2023	Dec. 06, 2023	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jul. 18, 2023 ~ Sep. 08, 2023	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jul. 18, 2023 ~ Sep. 08, 2023	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jul. 18, 2023 ~ Sep. 08, 2023	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 22, 2022	Jul. 18, 2023 ~ Sep. 08, 2023	Dec. 21, 2023	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N 1D01N-06	55606 & 08	30MHz~1GHz	Oct. 22, 2022	Jul. 18, 2023 ~ Sep. 08, 2023	Oct. 21, 2023	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	02360	1GHz-18GHz	Nov. 04, 2022	Jul. 18, 2023 ~ Sep. 08, 2023	Nov. 03, 2023	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	00994	18GHz-40GHz	Nov. 04, 2022	Jul. 18, 2023 ~ Sep. 08, 2023	Nov. 03, 2023	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 02, 2023	Jul. 18, 2023 ~ Sep. 08, 2023	Jan. 01, 2024	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 14, 2022	Jul. 18, 2023 ~ Sep. 08, 2023	Nov. 13, 2023	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,8040 15/2,804027/2	N/A	Jan. 18, 2023	Jul. 18, 2023 ~ Sep. 08, 2023	Jan. 17, 2024	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303B	TP200728	N/A	Mar. 28, 2023	Jul. 18, 2023 ~ Sep. 08, 2023	Mar. 27, 2024	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Jul. 18, 2023 ~ Sep. 08, 2023	N/A	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 17, 2022	Jul. 17, 2023~ Aug. 11, 2023	Nov. 16, 2023	Conducted (TH05-HY)
Power Sensor	DARE	RPR3008W	RPR8W-21010 01 (NO:75)	10MHz~8GHz	Aug. 29, 2022	Jul. 17, 2023~ Aug. 11, 2023	Aug. 28, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz - 40GHz(amp)	Aug. 03, 2022	Jul. 17, 2023~ Aug. 01, 2023	Aug. 02, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz~40GHz	Dec. 26, 2022	Aug. 01, 2023~ Aug. 11, 2023	Dec. 25, 2023	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 20, 2023	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2022	Jul. 20, 2023	Nov. 30, 2023	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2022	Jul. 20, 2023	Nov. 16, 2023	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2022	Jul. 20, 2023	Nov. 30, 2023	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 17, 2022	Jul. 20, 2023	Nov. 16, 2023	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Jul. 20, 2023	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Aug. 01, 2022	Jul. 20, 2023	Jul. 31, 2023	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 29, 2022	Jul. 20, 2023	Dec. 28, 2023	Conduction (CO05-HY)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.5 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.50 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.30 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.80 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.40 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Sylvia Li	Temperature:	21~25	°C
Test Date:	2023/07/17~2023/08/11	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-5 MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
					Ant 7	Ant 8	Ant 7	Ant 8		
11a	6Mbps	2	001	5955	16.48	16.38	19.86	19.50	320.00	Pass
11a	6Mbps	2	049	6195	16.48	16.43	19.56	19.56	320.00	Pass
11a	6Mbps	2	093	6415	16.48	16.43	19.56	19.50	320.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 7	Ant 8	SUM	Ant 7	Ant 8			
11a	6Mbps	2	001	5955	13.80	13.90	16.86	3.38		20.24	30.00	Pass
11a	6Mbps	2	049	6195	13.80	13.40	16.61	3.38		19.99	30.00	Pass
11a	6Mbps	2	093	6415	13.00	13.70	16.37	3.38		19.75	30.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-5 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
					Ant 7	Ant 8	Ant 7	Ant 8	SUM	Ant 7	Ant 8	SUM		
11a	6Mbps	2	001	5955	0.06	0.06			5.39	5.98	11.37	17.00	Pass	
11a	6Mbps	2	049	6195	0.06	0.06			4.90	5.98	10.88	17.00	Pass	
11a	6Mbps	2	093	6415	0.06	0.06			5.08	5.98	11.06	17.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

U-NII-7 MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
					Ant 7	Ant 8	Ant 7	Ant 8		
11a	6Mbps	2	117	6535	16.48	16.43	19.56	19.50	320.00	Pass
11a	6Mbps	2	149	6695	16.48	16.43	19.56	19.44	320.00	Pass
11a	6Mbps	2	181	6855	16.48	16.43	19.62	19.38	320.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 7	Ant 8	SUM	Ant 7	Ant 8			
11a	6Mbps	2	117	6535	13.00	13.80	16.43	2.49		18.92	30.00	Pass
11a	6Mbps	2	149	6695	13.00	13.90	16.48	2.49		18.97	30.00	Pass
11a	6Mbps	2	181	6855	13.50	13.90	16.71	2.49		19.20	30.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-7 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
					Ant 7	Ant 8	Ant 7	Ant 8	SUM	Ant 7	Ant 8	SUM		
11a	6Mbps	2	117	6535	0.06	0.06			4.99	5.03	10.02	17.00	Pass	
11a	6Mbps	2	149	6695	0.06	0.06			5.24	5.03	10.26	17.00	Pass	
11a	6Mbps	2	181	6855	0.06	0.06			5.23	5.03	10.26	17.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

U-NII-5 MIMO											
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 7	Ant 8	Ant 7	Ant 8		
HE20	MCS0	2	001	5955	Full	18.93	18.98	21.96	21.24	320.00	Pass
HE20	MCS0	2	049	6195	Full	18.98	18.93	21.18	21.54	320.00	Pass
HE20	MCS0	2	093	6415	Full	18.93	18.93	21.42	21.36	320.00	Pass
HE40	MCS0	2	003	5965	Full	37.86	37.96	41.88	41.76	320.00	Pass
HE40	MCS0	2	051	6205	Full	37.96	37.96	41.88	41.76	320.00	Pass
HE40	MCS0	2	091	6405	Full	37.96	38.06	41.88	41.64	320.00	Pass
HE80	MCS0	2	007	5985	Full	77.32	77.20	83.04	83.28	320.00	Pass
HE80	MCS0	2	055	6225	Full	77.20	77.32	83.04	83.52	320.00	Pass
HE80	MCS0	2	087	6385	Full	77.32	77.20	83.04	83.04	320.00	Pass
HE160	MCS0	2	015	6025	Full	156.80	156.56	166.56	166.56	320.00	Pass
HE160	MCS0	2	047	6185	Full	156.32	156.56	167.04	166.08	320.00	Pass
HE160	MCS0	2	079	6345	Full	156.56	156.32	166.56	166.56	320.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 7	Ant 8	SUM	Ant 7	Ant 8	SUM		
HE20	MCS0	2	001	5955	Full	13.80	13.80	16.81	3.38		20.19	30.00	Pass
HE20	MCS0	2	001	5955	26/0	3.90	4.40	7.17	3.38		10.55	30.00	Pass
HE20	MCS0	2	001	5955	52/37	7.40	7.60	10.51	3.38		13.89	30.00	Pass
HE20	MCS0	2	001	5955	106/53	10.00	10.30	13.16	3.38		16.54	30.00	Pass
HE20	MCS0	2	049	6195	Full	13.70	13.40	16.56	3.38		19.94	30.00	Pass
HE20	MCS0	2	049	6195	26/4	5.30	4.00	7.71	3.38		11.09	30.00	Pass
HE20	MCS0	2	049	6195	52/38	7.20	6.20	9.74	3.38		13.12	30.00	Pass
HE20	MCS0	2	049	6195	106/53	9.80	9.10	12.47	3.38		15.85	30.00	Pass
HE20	MCS0	2	093	6415	Full	13.40	13.90	16.67	3.38		20.05	30.00	Pass
HE20	MCS0	2	093	6415	26/8	4.00	4.50	7.27	3.38		10.65	30.00	Pass
HE20	MCS0	2	093	6415	52/40	6.70	7.10	9.91	3.38		13.29	30.00	Pass
HE20	MCS0	2	093	6415	106/54	9.70	10.60	13.18	3.38		16.56	30.00	Pass
HE40	MCS0	2	003	5965	Full	13.80	13.90	16.86	3.38		20.24	30.00	Pass
HE40	MCS0	2	003	5965	242/61	11.40	11.80	14.61	3.38		17.99	30.00	Pass
HE40	MCS0	2	051	6205	Full	13.60	13.20	16.41	3.38		19.79	30.00	Pass
HE40	MCS0	2	051	6205	242/61	10.70	10.90	13.81	3.38		17.19	30.00	Pass
HE40	MCS0	2	091	6405	Full	13.40	13.90	16.67	3.38		20.05	30.00	Pass
HE40	MCS0	2	091	6405	242/62	10.90	11.90	14.44	3.38		17.82	30.00	Pass
HE80	MCS0	2	007	5985	Full	13.40	13.60	16.51	3.38		19.89	30.00	Pass
HE80	MCS0	2	007	5985	484/65	11.20	11.60	14.41	3.38		17.79	30.00	Pass
HE80	MCS0	2	055	6225	Full	13.90	13.70	16.81	3.38		20.19	30.00	Pass
HE80	MCS0	2	055	6225	484/65	11.50	11.90	14.71	3.38		18.09	30.00	Pass
HE80	MCS0	2	087	6385	Full	13.20	13.60	16.41	3.38		19.79	30.00	Pass
HE80	MCS0	2	087	6385	484/66	10.90	11.10	14.01	3.38		17.39	30.00	Pass
HE160	MCS0	2	015	6025	Full	13.60	13.30	16.46	3.38		19.84	30.00	Pass
HE160	MCS0	2	015	6025	996/67	10.90	10.50	13.71	3.38		17.09	30.00	Pass
HE160	MCS0	2	047	6185	Full	13.90	13.60	16.76	3.38		20.14	30.00	Pass
HE160	MCS0	2	047	6185	996/67	11.00	11.40	14.21	3.38		17.59	30.00	Pass
HE160	MCS0	2	079	6345	Full	13.60	13.70	16.66	3.38		20.04	30.00	Pass
HE160	MCS0	2	079	6345	996/S67	10.60	10.70	13.66	3.38		17.04	30.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-5 MIMO															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 7	Ant 8	Ant 7	Ant 8	SUM	Ant 7	Ant 8	SUM		
HE20	MCS0	2	001	5955	Full	0.00	0.00		4.68	5.98		10.66	17.00	Pass	
HE20	MCS0	2	001	5955	26/0	0.59	0.62		4.49	5.98		10.47	17.00	Pass	
HE20	MCS0	2	001	5955	52/37	0.59	0.57		4.62	5.98		10.60	17.00	Pass	
HE20	MCS0	2	001	5955	106/53	0.65	0.63		4.62	5.98		10.60	17.00	Pass	
HE20	MCS0	2	049	6195	Full	0.00	0.00		4.20	5.98		10.18	17.00	Pass	
HE20	MCS0	2	049	6195	26/4	0.59	0.62		3.86	5.98		9.84	17.00	Pass	
HE20	MCS0	2	049	6195	52/38	0.59	0.57		3.85	5.98		9.83	17.00	Pass	
HE20	MCS0	2	049	6195	106/53	0.65	0.63		3.72	5.98		9.70	17.00	Pass	
HE20	MCS0	2	093	6415	Full	0.00	0.00		4.84	5.98		10.82	17.00	Pass	
HE20	MCS0	2	093	6415	26/8	0.59	0.62		4.75	5.98		10.73	17.00	Pass	
HE20	MCS0	2	093	6415	52/40	0.59	0.57		4.36	5.98		10.34	17.00	Pass	
HE20	MCS0	2	093	6415	106/54	0.65	0.63		4.75	5.98		10.73	17.00	Pass	
HE40	MCS0	2	003	5965	Full	0.00	0.00		2.00	5.98		7.98	17.00	Pass	
HE40	MCS0	2	003	5965	242/61	0.03	0.03		1.85	5.98		7.83	17.00	Pass	
HE40	MCS0	2	051	6205	Full	0.00	0.00		1.39	5.98		7.37	17.00	Pass	
HE40	MCS0	2	051	6205	242/61	0.03	0.03		1.05	5.98		7.03	17.00	Pass	
HE40	MCS0	2	091	6405	Full	0.00	0.00		1.86	5.98		7.84	17.00	Pass	
HE40	MCS0	2	091	6405	242/62	0.03	0.03		1.79	5.98		7.77	17.00	Pass	
HE80	MCS0	2	007	5985	Full	0.03	0.03		-1.48	5.98		4.50	17.00	Pass	
HE80	MCS0	2	007	5985	484/65	0.03	0.04		-1.60	5.98		4.38	17.00	Pass	
HE80	MCS0	2	055	6225	Full	0.03	0.03	-0.96	5.98		5.02	17.00	Pass		
HE80	MCS0	2	055	6225	484/65	0.03	0.04	-1.10	5.98		4.88	17.00	Pass		
HE80	MCS0	2	087	6385	Full	0.03	0.03	-1.26	5.98		4.72	17.00	Pass		
HE80	MCS0	2	087	6385	484/66	0.03	0.04	-1.48	5.98		4.51	17.00	Pass		
HE160	MCS0	2	015	6025	Full	0.03	0.03	-4.49	5.98		1.49	17.00	Pass		
HE160	MCS0	2	015	6025	996/67	0.10	0.10	-4.71	5.98		1.27	17.00	Pass		
HE160	MCS0	2	047	6185	Full	0.03	0.03	-4.16	5.98		1.82	17.00	Pass		
HE160	MCS0	2	047	6185	996/67	0.10	0.10	-4.38	5.98		1.60	17.00	Pass		
HE160	MCS0	2	079	6345	Full	0.03	0.03	-4.05	5.98		1.93	17.00	Pass		
HE160	MCS0	2	079	6345	996/S67	0.10	0.10	-4.44	5.98		1.54	17.00	Pass		

TEST RESULTS DATA
26dB and 99% OBW

U-NII-7 MIMO											
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 7	Ant 8	Ant 7	Ant 8		
HE20	MCS0	2	117	6535	Full	18.93	18.93	21.42	21.30	320.00	Pass
HE20	MCS0	2	149	6695	Full	18.98	18.98	21.24	21.48	320.00	Pass
HE20	MCS0	2	181	6855	Full	18.93	19.03	21.30	21.36	320.00	Pass
HE40	MCS0	2	123	6565	Full	37.96	38.06	42.00	41.76	320.00	Pass
HE40	MCS0	2	147	6685	Full	38.06	38.06	41.76	41.52	320.00	Pass
HE40	MCS0	2	179	6845	Full	37.96	38.06	41.64	41.76	320.00	Pass
HE80	MCS0	2	135	6625	Full	77.32	77.20	83.52	83.28	320.00	Pass
HE80	MCS0	2	151	6705	Full	77.44	77.32	83.28	82.80	320.00	Pass
HE80	MCS0	2	167	6785	Full	77.20	77.32	83.04	82.32	320.00	Pass
HE160	MCS0	2	143	6665	Full	156.56	156.56	168.00	166.08	320.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 7	Ant 8	SUM	Ant 7	Ant 8	SUM		
HE20	MCS0	2	117	6535	Full	12.90	13.60	16.27	2.49		18.76	30.00	Pass
HE20	MCS0	2	117	6535	26/0	2.90	4.30	6.67	2.49		9.16	30.00	Pass
HE20	MCS0	2	117	6535	52/37	6.10	7.10	9.64	2.49		12.13	30.00	Pass
HE20	MCS0	2	117	6535	106/53	9.20	10.30	12.80	2.49		15.29	30.00	Pass
HE20	MCS0	2	149	6695	Full	12.90	13.90	16.44	2.49		18.93	30.00	Pass
HE20	MCS0	2	149	6695	26/4	4.60	5.50	8.08	2.49		10.57	30.00	Pass
HE20	MCS0	2	149	6695	52/38	6.70	7.00	9.86	2.49		12.35	30.00	Pass
HE20	MCS0	2	149	6695	106/53	9.40	10.20	12.83	2.49		15.32	30.00	Pass
HE20	MCS0	2	181	6855	Full	13.30	13.80	16.57	2.49		19.06	30.00	Pass
HE20	MCS0	2	181	6855	26/8	4.00	4.50	7.27	2.49		9.76	30.00	Pass
HE20	MCS0	2	181	6855	52/40	7.10	7.00	10.06	2.49		12.55	30.00	Pass
HE20	MCS0	2	181	6855	106/54	10.40	10.80	13.61	2.49		16.10	30.00	Pass
HE40	MCS0	2	123	6565	Full	13.90	13.70	16.81	2.49		19.30	30.00	Pass
HE40	MCS0	2	123	6565	242/61	11.40	11.10	14.26	2.49		16.75	30.00	Pass
HE40	MCS0	2	147	6685	Full	12.90	13.70	16.33	2.49		18.82	30.00	Pass
HE40	MCS0	2	147	6685	242/61	10.30	11.20	13.78	2.49		16.27	30.00	Pass
HE40	MCS0	2	179	6845	Full	13.20	13.70	16.47	2.49		18.96	30.00	Pass
HE40	MCS0	2	179	6845	242/62	10.60	11.50	14.08	2.49		16.57	30.00	Pass
HE80	MCS0	2	135	6625	Full	13.70	13.90	16.81	2.49		19.30	30.00	Pass
HE80	MCS0	2	135	6625	484/65	11.00	11.50	14.27	2.49		16.76	30.00	Pass
HE80	MCS0	2	151	6705	Full	13.00	13.90	16.48	2.49		18.97	30.00	Pass
HE80	MCS0	2	151	6705	484/65	10.90	11.70	14.33	2.49		16.82	30.00	Pass
HE80	MCS0	2	167	6785	Full	13.30	13.90	16.62	2.49		19.11	30.00	Pass
HE80	MCS0	2	167	6785	484/66	10.60	11.60	14.14	2.49		16.63	30.00	Pass
HE160	MCS0	2	143	6665	Full	13.50	13.90	16.71	2.49		19.20	30.00	Pass
HE160	MCS0	2	143	6665	996/67	11.10	11.30	14.21	2.49		16.70	30.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-7 MIMO															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 7	Ant 8	Ant 7	Ant 8	SUM	Ant 7	Ant 8	SUM		
HE20	MCS0	2	117	6535	Full	0.00	0.00		4.34	5.03		9.37	17.00	Pass	
HE20	MCS0	2	117	6535	26/0	0.59	0.62		3.95	5.03		8.98	17.00	Pass	
HE20	MCS0	2	117	6535	52/37	0.59	0.57		3.88	5.03		8.91	17.00	Pass	
HE20	MCS0	2	117	6535	106/53	0.65	0.63		4.33	5.03		9.36	17.00	Pass	
HE20	MCS0	2	149	6695	Full	0.00	0.00		4.72	5.03		9.74	17.00	Pass	
HE20	MCS0	2	149	6695	26/4	0.59	0.62		4.45	5.03		9.47	17.00	Pass	
HE20	MCS0	2	149	6695	52/38	0.59	0.57		4.22	5.03		9.24	17.00	Pass	
HE20	MCS0	2	149	6695	106/53	0.65	0.63		4.39	5.03		9.41	17.00	Pass	
HE20	MCS0	2	181	6855	Full	0.00	0.00		4.73	5.03		9.76	17.00	Pass	
HE20	MCS0	2	181	6855	26/8	0.59	0.62		4.41	5.03		9.44	17.00	Pass	
HE20	MCS0	2	181	6855	52/40	0.59	0.57		4.28	5.03		9.31	17.00	Pass	
HE20	MCS0	2	181	6855	106/54	0.65	0.63		4.64	5.03		9.67	17.00	Pass	
HE40	MCS0	2	123	6565	Full	0.00	0.00		1.99	5.03		7.02	17.00	Pass	
HE40	MCS0	2	123	6565	242/61	0.03	0.03		1.71	5.03		6.74	17.00	Pass	
HE40	MCS0	2	147	6685	Full	0.00	0.00		1.76	5.03		6.79	17.00	Pass	
HE40	MCS0	2	147	6685	242/61	0.03	0.03		1.38	5.03		6.41	17.00	Pass	
HE40	MCS0	2	179	6845	Full	0.00	0.00		1.82	5.03		6.84	17.00	Pass	
HE40	MCS0	2	179	6845	242/62	0.03	0.03		1.35	5.03		6.37	17.00	Pass	
HE80	MCS0	2	135	6625	Full	0.03	0.03		-0.59	5.03		4.44	17.00	Pass	
HE80	MCS0	2	135	6625	484/65	0.03	0.04		-0.91	5.03		4.12	17.00	Pass	
HE80	MCS0	2	151	6705	Full	0.03	0.03	-0.93	5.03		4.10	17.00	Pass		
HE80	MCS0	2	151	6705	484/65	0.03	0.04	-1.03	5.03		4.00	17.00	Pass		
HE80	MCS0	2	167	6785	Full	0.03	0.03	-0.58	5.03		4.45	17.00	Pass		
HE80	MCS0	2	167	6785	484/66	0.03	0.04	-0.77	5.03		4.26	17.00	Pass		
HE160	MCS0	2	143	6665	Full	0.03	0.03	-4.00	5.03		1.03	17.00	Pass		
HE160	MCS0	2	143	6665	996/67	0.10	0.10	-4.29	5.03		0.74	17.00	Pass		



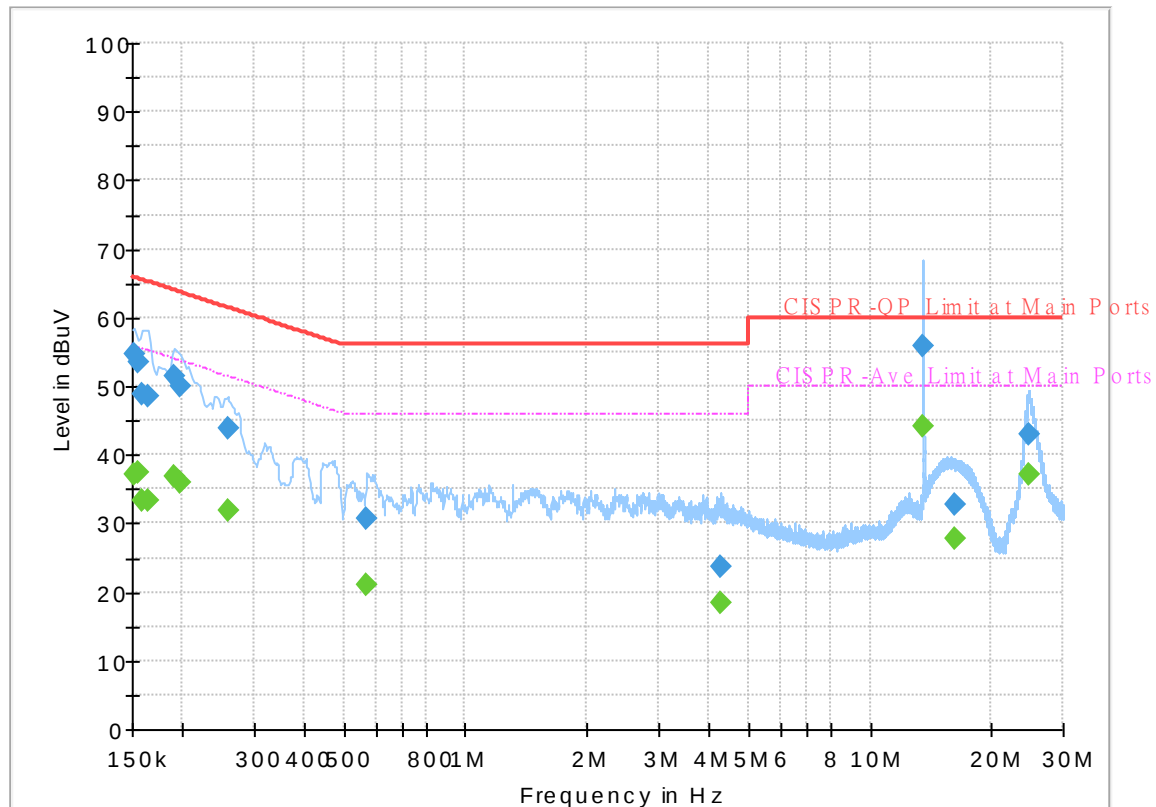
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Li-Yan Xun	Temperature :	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO : 371211
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final_Result

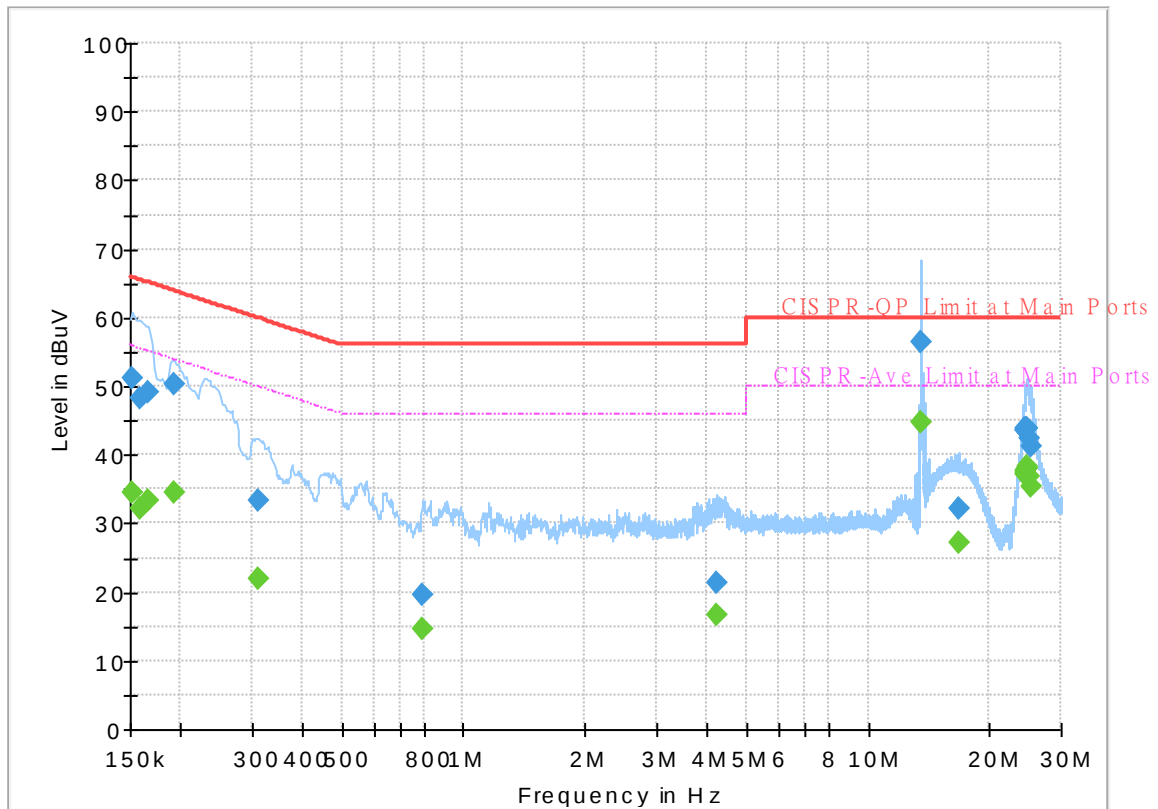
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	37.17	55.88	18.71	L1	OFF	19.8
0.152250	54.54	---	65.88	11.34	L1	OFF	19.8
0.154500	---	37.44	55.75	18.31	L1	OFF	19.8
0.154500	53.65	---	65.75	12.10	L1	OFF	19.8
0.159000	---	33.38	55.52	22.14	L1	OFF	19.8
0.159000	48.75	---	65.52	16.77	L1	OFF	19.8
0.163500	---	33.20	55.28	22.08	L1	OFF	19.8
0.163500	48.48	---	65.28	16.80	L1	OFF	19.8
0.190500	---	36.84	54.02	17.18	L1	OFF	19.8
0.190500	51.39	---	64.02	12.63	L1	OFF	19.8
0.197250	---	35.99	53.73	17.74	L1	OFF	19.8
0.197250	50.08	---	63.73	13.65	L1	OFF	19.8
0.258000	---	31.77	51.50	19.73	L1	OFF	19.8
0.258000	43.74	---	61.50	17.76	L1	OFF	19.8
0.570750	---	21.08	46.00	24.92	L1	OFF	19.8
0.570750	30.84	---	56.00	25.16	L1	OFF	19.8
4.281000	---	18.42	46.00	27.58	L1	OFF	19.9
4.281000	23.56	---	56.00	32.44	L1	OFF	19.9
13.560000	---	44.29	50.00	5.71	L1	OFF	19.9
13.560000	55.83	---	60.00	4.17	L1	OFF	19.9
16.244250	---	27.78	50.00	22.22	L1	OFF	19.9

16.244250	32.78	---	60.00	27.22	L1	OFF	19.9
24.679500	---	37.22	50.00	12.78	L1	OFF	19.9
24.679500	42.98	---	60.00	17.02	L1	OFF	19.9

EUT Information

Report NO : 371211
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	34.44	55.88	21.44	N	OFF	19.8
0.152250	51.07	---	65.88	14.81	N	OFF	19.8
0.159000	---	32.22	55.52	23.30	N	OFF	19.8
0.159000	48.31	---	65.52	17.21	N	OFF	19.8
0.165750	---	33.48	55.17	21.69	N	OFF	19.8
0.165750	49.16	---	65.17	16.01	N	OFF	19.8
0.192750	---	34.51	53.92	19.41	N	OFF	19.8
0.192750	50.33	---	63.92	13.59	N	OFF	19.8
0.309840	---	21.84	49.98	28.14	N	OFF	19.8
0.309840	33.19	---	59.98	26.79	N	OFF	19.8
0.791250	---	14.72	46.00	31.28	N	OFF	19.8
0.791250	19.56	---	56.00	36.44	N	OFF	19.8
4.227000	---	16.55	46.00	29.45	N	OFF	19.9
4.227000	21.29	---	56.00	34.71	N	OFF	19.9
13.560000	---	44.63	50.00	5.37	N	OFF	20.0
13.560000	56.31	---	60.00	3.69	N	OFF	20.0
16.759500	---	27.33	50.00	22.67	N	OFF	20.0
16.759500	32.29	---	60.00	27.71	N	OFF	20.0
24.459000	---	37.22	50.00	12.78	N	OFF	20.1
24.459000	43.45	---	60.00	16.55	N	OFF	20.1
24.490500	---	37.53	50.00	12.47	N	OFF	20.1

24.490500	43.51	---	60.00	16.49	N	OFF	20.1
24.555750	---	37.78	50.00	12.22	N	OFF	20.1
24.555750	43.76	---	60.00	16.24	N	OFF	20.1
24.609750	---	38.13	50.00	11.87	N	OFF	20.1
24.609750	43.82	---	60.00	16.18	N	OFF	20.1
24.688500	---	38.15	50.00	11.85	N	OFF	20.1
24.688500	43.80	---	60.00	16.20	N	OFF	20.1
24.715500	---	38.30	50.00	11.70	N	OFF	20.1
24.715500	43.75	---	60.00	16.25	N	OFF	20.1
25.062000	---	36.73	50.00	13.27	N	OFF	20.1
25.062000	42.41	---	60.00	17.59	N	OFF	20.1
25.217250	---	35.46	50.00	14.54	N	OFF	20.1
25.217250	41.35	---	60.00	18.65	N	OFF	20.1



Appendix C. Radiated Spurious Emission

Test Engineer :	John Chuang, David Dai and Howard Huang	Temperature :	18.5~22.4°C
		Relative Humidity :	66.7~69.1%

Band 5 - 5925~6425MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
7+8		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 01 5955MHz		5923.84	76.01	-12.19	88.2	65.69	34.35	13.79	37.82	300	333	P	H
		5924.4	65.1	-3.1	68.2	54.78	34.35	13.79	37.82	300	333	A	H
	*	5955	119.29	-	-	109.02	34.27	13.83	37.83	300	333	P	H
	*	5955	112.99	-	-	102.72	34.27	13.83	37.83	300	333	A	H
													H
													H
		5922.58	71.06	-17.14	88.2	60.74	34.35	13.79	37.82	100	242	P	V
		5924.96	58.86	-9.34	68.2	48.54	34.35	13.79	37.82	100	242	A	V
	*	5955	114.58	-	-	104.31	34.27	13.83	37.83	100	242	P	V
	*	5955	107.25	-	-	96.98	34.27	13.83	37.83	100	242	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 5 5925~6425MHz****WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 01 5955MHz		11910	50.99	-23.01	74	34.46	39.12	20.14	42.73	100	155	P	H
		11910	40.96	-13.04	54	24.43	39.12	20.14	42.73	100	155	A	H
		17865	55.28	-18.72	74	34.52	41.25	24.6	45.09	100	254	P	H
		17865	45.42	-8.58	54	24.66	41.25	24.6	45.09	100	254	A	H
		23820	41.23	-32.77	74	36.89	39.21	19	53.87	-	-	P	H
													H
													H
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													H
													H
													H
													H
		11910	50.92	-23.08	74	34.39	39.12	20.14	42.73	100	45	P	V
		11910	41.84	-12.16	54	25.31	39.12	20.14	42.73	100	45	A	V
		17865	56.01	-17.99	74	35.25	41.25	24.6	45.09	100	159	P	V
		17865	45.07	-8.93	54	24.31	41.25	24.6	45.09	100	159	A	V
		23820	40.29	-33.71	74	35.95	39.21	19	53.87	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 49 6195MHz		12390	50.88	-23.12	74	34.04	39.1	20.63	42.89	100	164	P	H
		12390	42.27	-11.73	54	25.43	39.1	20.63	42.89	100	164	A	H
		18585	42.05	-31.95	74	44.33	37.93	15.34	55.55	150	212	P	H
													H
													H
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													H
													H
													H
		12390	50.69	-23.31	74	33.85	39.1	20.63	42.89	100	101	P	V
		12390	41.94	-12.06	54	25.1	39.1	20.63	42.89	100	101	A	V
		18585	39.2	-34.8	74	41.48	37.93	15.34	55.55	150	284	P	V
													V
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													V
													V
													V
													V
													V

WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 93 6415MHz		12830	52.81	-35.39	88.2	34.72	39.76	21.08	42.75	-	-	P	H
		19245	38.23	-35.77	74	39.4	38.2	15.83	55.2	-	-	P	H
													H
													H
													H
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													H
													H
		12830	52.79	-35.41	88.2	34.7	39.76	21.08	42.75	-	-	P	V
		19245	37.55	-36.45	74	38.72	38.2	15.83	55.2	-	-	P	V
													V
													V
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													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 5 5925~6425MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 01 5955MHz		5923.14	78.36	-9.84	88.2	68.04	34.35	13.79	37.82	300	333	P	H
		5924.54	67.08	-1.12	68.2	56.76	34.35	13.79	37.82	300	333	A	H
	*	5955	119.46	-	-	109.19	34.27	13.83	37.83	300	333	P	H
	*	5955	112.79	-	-	102.52	34.27	13.83	37.83	300	333	A	H
													H
													H
		5923.56	72.61	-15.59	88.2	62.29	34.35	13.79	37.82	100	239	P	V
		5924.82	61.44	-6.76	68.2	51.12	34.35	13.79	37.82	100	239	A	V
	*	5955	115.04	-	-	104.77	34.27	13.83	37.83	100	239	P	V
	*	5955	107.21	-	-	96.94	34.27	13.83	37.83	100	239	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 5 5925~6425MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 01 5955MHz		11910	50.93	-23.07	74	34.4	39.12	20.14	42.73	100	166	P	H
		11910	41.09	-12.91	54	24.56	39.12	20.14	42.73	100	166	A	H
		17865	55.46	-18.54	74	34.7	41.25	24.6	45.09	100	198	P	H
		17865	45.88	-8.12	54	25.12	41.25	24.6	45.09	100	198	A	H
		23820	41.98	-32.02	74	37.64	39.21	19	53.87	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
		11910	51.44	-22.56	74	34.91	39.12	20.14	42.73	100	79	P	V
		11910	41.18	-12.82	54	24.65	39.12	20.14	42.73	100	79	A	V
		17865	55.57	-18.43	74	34.81	41.25	24.6	45.09	100	168	P	V
		17865	45.12	-8.88	54	24.36	41.25	24.6	45.09	100	168	A	V
		23820	39.95	-34.05	74	35.61	39.21	19	53.87	-	-	P	V
													V
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WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 49 6195MHz		12390	51.47	-22.53	74	34.63	39.1	20.63	42.89	100	135	P	H
		12390	41.95	-12.05	54	25.11	39.1	20.63	42.89	100	135	A	H
		18585	38.98	-35.02	74	41.26	37.93	15.34	55.55	-	-	P	H
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		12390	51.93	-22.07	74	35.09	39.1	20.63	42.89	100	211	P	V
		12390	41.38	-12.62	54	24.54	39.1	20.63	42.89	100	211	A	V
		18585	38.69	-35.31	74	40.97	37.93	15.34	55.55	-	-	P	V
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WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 93 6415MHz		12830	51.85	-36.35	88.2	33.76	39.76	21.08	42.75	-	-	P	H
		19245	38.34	-35.66	74	39.51	38.2	15.83	55.2	-	-	P	H
													H
													H
													H
													H
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		12830	51.74	-36.46	88.2	33.65	39.76	21.08	42.75	-	-	P	V
		19245	37.4	-36.6	74	38.57	38.2	15.83	55.2	-	-	P	V
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Band 5 5925~6425MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/53 CH 01 5955MHz		5924.12	71.97	-16.23	88.2	61.65	34.35	13.79	37.82	280	334	P	H
		5924.54	54.6	-13.6	68.2	44.28	34.35	13.79	37.82	280	334	A	H
	*	5955	121.83	-	-	111.56	34.27	13.83	37.83	280	334	P	H
	*	5955	115.47	-	-	105.2	34.27	13.83	37.83	280	334	A	H
													H
													H
		5924.82	70.83	-17.37	88.2	60.51	34.35	13.79	37.82	100	238	P	V
		5924.68	46.85	-21.35	68.2	36.53	34.35	13.79	37.82	100	238	A	V
	*	5955	117.31	-	-	107.04	34.27	13.83	37.83	100	238	P	V
	*	5955	109.98	-	-	99.71	34.27	13.83	37.83	100	238	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 5 5925~6425MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 03 5965MHz		5923.62	76.98	-11.22	88.2	66.66	34.35	13.79	37.82	286	331	P	H
		5923.26	63.46	-4.74	68.2	53.14	34.35	13.79	37.82	286	331	A	H
	*	5965	116.55	-	-	106.33	34.21	13.84	37.83	286	331	P	H
	*	5965	109.19	-	-	98.97	34.21	13.84	37.83	286	331	A	H
													H
													H
		5924.34	73.08	-15.12	88.2	62.76	34.35	13.79	37.82	100	256	P	V
		5923.62	58.06	-10.14	68.2	47.74	34.35	13.79	37.82	100	256	A	V
	*	5965	110.69	-	-	100.47	34.21	13.84	37.83	100	256	P	V
	*	5965	103.18	-	-	92.96	34.21	13.84	37.83	100	256	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 5 5925~6425MHz****WIFI 802.11ax HE40 Full (Harmonic @ 3m)**

WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 03 5965MHz		11930	51.26	-22.74	74	34.68	39.16	20.16	42.74	200	17	P	H
		11930	40.96	-13.04	54	24.38	39.16	20.16	42.74	200	17	A	H
		17895	54.22	-19.78	74	33.16	41.55	24.62	45.11	150	7	P	H
		17895	45.49	-8.51	54	24.43	41.55	24.62	45.11	150	7	A	H
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		11930	51.85	-22.15	74	35.27	39.16	20.16	42.74	250	109	P	V
		11930	40.92	-13.08	54	24.34	39.16	20.16	42.74	250	109	A	V
		17895	55.14	-18.86	74	34.08	41.55	24.62	45.11	300	77	P	V
		17895	45.55	-8.45	54	24.49	41.55	24.62	45.11	300	77	A	V
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WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 51 6205MHz		12410	51.73	-22.27	74	34.88	39.1	20.65	42.9	100	242	P	H
		12410	41.08	-12.92	54	24.23	39.1	20.65	42.9	100	242	A	H
		18615	37.53	-36.47	74	39.8	37.91	15.35	55.53	-	-	P	H
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		12410	51.28	-22.72	74	34.43	39.1	20.65	42.9	150	246	P	V
		12410	41.07	-12.93	54	24.22	39.1	20.65	42.9	150	246	A	V
		18615	37.37	-36.63	74	39.64	37.91	15.35	55.53	-	-	P	V
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WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 91 6405MHz		12810	51.55	-36.65	88.2	33.54	39.72	21.05	42.76	-	-	P	H
		19215	38.1	-35.9	74	39.31	38.2	15.8	55.21	-	-	P	H
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Band 5 5925~6425MHz

WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial 242/61 CH 03 5965MHz		5923.62	86.44	-1.76	88.2	76.12	34.35	13.79	37.82	280	333	P	H
		5923.44	67.01	-1.19	68.2	56.69	34.35	13.79	37.82	280	333	A	H
	*	5965	119.52	-	-	109.3	34.21	13.84	37.83	280	333	P	H
	*	5965	112.93	-	-	102.71	34.21	13.84	37.83	280	333	A	H
													H
													H
		5910.66	77	-11.2	88.2	66.66	34.38	13.77	37.81	100	240	P	V
		5924.7	61.66	-6.54	68.2	51.34	34.35	13.79	37.82	100	240	A	V
	*	5965	115.8	-	-	105.58	34.21	13.84	37.83	100	240	P	V
	*	5965	107.01	-	-	96.79	34.21	13.84	37.83	100	240	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 5 5925~6425MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 07 5985MHz		5921.64	75.3	-12.9	88.2	64.96	34.36	13.79	37.81	275	335	P	H
		5923.24	64.96	-3.24	68.2	54.64	34.35	13.79	37.82	275	335	A	H
	*	5985	113.76	-	-	103.64	34.09	13.87	37.84	275	335	P	H
	*	5985	105.7	-	-	95.58	34.09	13.87	37.84	275	335	A	H
													H
													H
		5918.12	70.49	-17.71	88.2	60.16	34.36	13.78	37.81	100	325	P	V
		5919.4	58.94	-9.26	68.2	48.6	34.36	13.79	37.81	100	325	A	V
	*	5985	108.64	-	-	98.52	34.09	13.87	37.84	100	325	P	V
	*	5985	100.07	-	-	89.95	34.09	13.87	37.84	100	325	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 5 5925~6425MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

[illegible]



WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 55 6225MHz		12450	51.67	-22.33	74	34.79	39.1	20.69	42.91	100	121	P	H
		12450	42.14	-11.86	54	25.26	39.1	20.69	42.91	100	121	A	H
		18675	37.07	-36.93	74	39.31	37.86	15.39	55.49	-	-	P	H
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		12450	51.11	-22.89	74	34.23	39.1	20.69	42.91	200	147	P	V
		12450	42.1	-11.9	54	25.22	39.1	20.69	42.91	200	147	A	V
		18675	37.12	-36.88	74	39.36	37.86	15.39	55.49	-	-	P	V
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WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 87 6385MHz		12770	51.61	-36.59	88.2	33.74	39.64	21.01	42.78	-	-	P	H
		19155	37.41	-36.59	74	38.71	38.2	15.74	55.24	-	-	P	H
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Band 5 5925~6425MHz

WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial 484/65 CH 07 5985MHz		5923.56	86.04	-2.16	88.2	75.72	34.35	13.79	37.82	244	332	P	H
		5916.52	65.42	-2.78	68.2	55.08	34.37	13.78	37.81	244	332	A	H
	*	5985	116.1	-	-	105.98	34.09	13.87	37.84	244	332	P	H
	*	5985	108.74	-	-	98.62	34.09	13.87	37.84	244	332	A	H
													H
													H
		5911.24	79.38	-8.82	88.2	69.04	34.38	13.77	37.81	100	326	P	V
		5916.36	59.92	-8.28	68.2	49.58	34.37	13.78	37.81	100	326	A	V
	*	5985	109.78	-	-	99.66	34.09	13.87	37.84	100	326	P	V
	*	5985	102.49	-	-	92.37	34.09	13.87	37.84	100	326	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 5 5925~6425MHz

WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 15 6025MHz		5900.2	77.53	-10.67	88.2	67.18	34.4	13.76	37.81	234	338	P	H
		5900.84	65.87	-2.33	68.2	55.52	34.4	13.76	37.81	234	338	A	H
	*	6025	110.08	-	-	99.99	34	13.92	37.83	234	338	P	H
	*	6025	102.33	-	-	92.24	34	13.92	37.83	234	338	P	H
													H
													H
		5908.84	71.05	-17.15	88.2	60.71	34.38	13.77	37.81	100	325	P	V
		5908.84	60.67	-7.53	68.2	50.33	34.38	13.77	37.81	100	325	A	V
	*	6025	104.65	-	-	94.56	34	13.92	37.83	100	325	P	V
	*	6025	96.7	-	-	86.61	34	13.92	37.83	100	325	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 5 5925~6425MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

[illegible]



WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 47 6185MHz		12370	50.91	-23.09	74	34.09	39.1	20.61	42.89	150	148	P	H
		12370	42.66	-11.34	54	25.84	39.1	20.61	42.89	150	148	A	H
		18555	37.42	-36.58	74	39.71	37.96	15.32	55.57	-	-	P	H
													H
													H
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		12370	51.82	-22.18	74	35	39.1	20.61	42.89	100	61	P	V
		12370	42.43	-11.57	54	25.61	39.1	20.61	42.89	100	61	A	V
		18555	38.34	-35.66	74	40.63	37.96	15.32	55.57	-	-	P	V
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[illegible]



Band 5 5925~6425MHz

WIFI 802.11ax HE160 Partial 996 (Band Edge @ 3m)

WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Partial 996/67 CH 15 6025MHz		5903.08	80.84	-7.36	88.2	70.5	34.39	13.76	37.81	289	331	P	H
		5892.52	67.09	-1.11	68.2	56.79	34.36	13.75	37.81	289	331	A	H
	*	6025	110.63	-	-	100.54	34	13.92	37.83	289	331	P	H
	*	6025	103.17	-	-	93.08	34	13.92	37.83	289	331	A	H
													H
													H
		5892.52	75.93	-12.27	88.2	65.63	34.36	13.75	37.81	100	261	P	V
		5892.2	61.55	-6.65	68.2	51.26	34.35	13.75	37.81	100	261	A	V
	*	6025	105.93	-	-	95.84	34	13.92	37.83	100	261	P	V
	*	6025	97.6	-	-	87.51	34	13.92	37.83	100	261	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 7 - 6525~6875MHz****WIFI 802.11a (Harmonic @ 3m)**

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
7+8		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 117 6535MHz		13070	52.3	-35.9	88.2	33.91	39.73	21.36	42.7	-	-	P	H
		19605	36.47	-37.53	74	37.37	37.97	16.19	55.06	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		13070	52.58	-35.62	88.2	34.19	39.73	21.36	42.7	-	-	P	V
		19605	37.28	-36.72	74	38.18	37.97	16.19	55.06	-	-	P	V
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WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 6695MHz		13390	52.82	-21.18	74	33.74	40.08	21.9	42.9	100	49	P	H
		13390	43.12	-10.88	54	24.04	40.08	21.9	42.9	100	49	A	H
		20085	37.09	-36.91	74	37.29	38.04	16.66	54.9	-	-	P	H
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		13390	52.94	-21.06	74	33.86	40.08	21.9	42.9	200	344	P	V
		13390	43.06	-10.94	54	23.98	40.08	21.9	42.9	200	344	A	V
		20085	37.51	-36.49	74	37.71	38.04	16.66	54.9	-	-	P	V
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WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 181 6855MHz		13710	53.14	-35.06	88.2	34.35	39.68	22.42	43.31	-	-	P	H
		20565	38.67	-35.33	74	38.03	38.45	17.08	54.89	-	-	P	H
													H
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		13710	53.88	-34.32	88.2	35.09	39.68	22.42	43.31	-	-	P	V
		20565	38.69	-35.31	74	38.05	38.45	17.08	54.89	-	-	P	V
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Band 7 - 6525~6875MHz

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WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 149 6695MHz		13390	52.1	-21.9	74	33.02	40.08	21.9	42.9	350	344	P	H
		13390	43.11	-10.89	54	24.03	40.08	21.9	42.9	350	344	A	H
		20085	37.67	-36.33	74	37.87	38.04	16.66	54.9	-	-	P	H
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		13390	52.54	-21.46	74	33.46	40.08	21.9	42.9	200	282	P	V
		13390	43.12	-10.88	54	24.04	40.08	21.9	42.9	200	282	A	V
		20085	37.63	-36.37	74	37.83	38.04	16.66	54.9	-	-	P	V
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WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 147 6685MHz		13370	53.02	-20.98	74	34.01	40.04	21.86	42.89	250	269	P	H
		13370	42.82	-11.18	54	23.81	40.04	21.86	42.89	250	269	A	H
		20055	36.9	-37.1	74	37.18	37.99	16.63	54.9	-	-	P	H
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		13370	52.76	-21.24	74	33.75	40.04	21.86	42.89	100	215	P	V
		13370	42.84	-11.16	54	23.83	40.04	21.86	42.89	100	215	A	V
		20055	37.64	-36.36	74	37.92	37.99	16.63	54.9	-	-	P	V
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Band 7 - 6525~6875MHz
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

[illegible]



WIFI Ant. 7+8	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 151 6705MHz		13410	52.85	-35.35	88.2	33.75	40.09	21.92	42.91	100	193	P	H
		13410	43.01	-25.19	68.2	23.91	40.09	21.92	42.91	100	193	A	H
		20115	37.13	-36.87	74	37.27	38.08	16.68	54.9	-	-	P	H
													H
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		13410	53.19	-35.01	88.2	34.09	40.09	21.92	42.91	100	239	P	V
		13410	43	-25.2	68.2	23.9	40.09	21.92	42.91	100	239	A	V
		20115	37.17	-36.83	74	37.31	38.08	16.68	54.9	-	-	P	V
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WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dBμV/m)	(dB)	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
7+8					(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE80 Full CH 167 6785MHz		13570	53.18	-35.02	88.2	34.14	39.93	22.19	43.08	-	-	P	H
		20355	38.44	-35.56	74	38.1	38.34	16.9	54.9	-	-	P	H
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Band 7 - 6525~6875MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

[illegible]

Emission below 1GHz

WIFI 802.11ax HE160 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
7+8		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Full LF		30	23.8	-16.2	40	33.68	24.56	1.32	35.76	-	-	P	H
		65.89	22.14	-17.86	40	44.23	12.06	1.57	35.72	-	-	P	H
		142.52	25.91	-17.59	43.5	41.49	17.74	2.29	35.61	-	-	P	H
		226.91	23.57	-22.43	46	40.3	15.9	2.81	35.44	-	-	P	H
		263.77	23.68	-22.32	46	35.62	20.41	3.02	35.37	-	-	P	H
		955.38	35.26	-10.74	46	31.62	31.03	5.72	33.11	-	-	P	H
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		35.82	32.06	-7.94	40	44.75	21.83	1.24	35.76	-	-	P	V
		141.55	25.56	-17.94	43.5	41.09	17.8	2.28	35.61	-	-	P	V
		263.77	22.11	-23.89	46	34.05	20.41	3.02	35.37	-	-	P	V
		409.27	25.26	-20.74	46	34.24	22.24	3.74	34.96	-	-	P	V
		831.22	33.27	-12.73	46	33.02	28.45	5.35	33.55	-	-	P	V
		951.5	36.87	-9.13	46	33.49	30.8	5.7	33.12	-	-	P	V
													V
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												V	
Remark	1. No other spurious found.												
	2. All results are PASS against limit line.												
	3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is Margin line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
7+8		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		5925	55.45	-32.75	88.2	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
5955MHz		5925	43.54	-24.66	68.2	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 5925MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
 = 55.45 (dBμV/m)
2. Margin (dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 88.2(dBμV/m)
 = -32.75(dB)

For Average Limit @ 5925MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 = 43.54(dBμV/m)
2. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54 (dBμV/m) – 68.2(dBμV/m)
 = -24.66(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

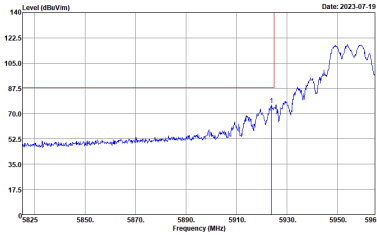
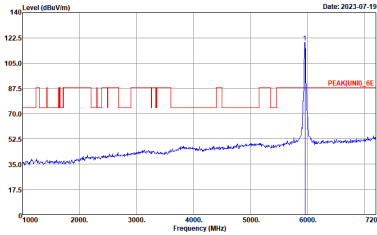
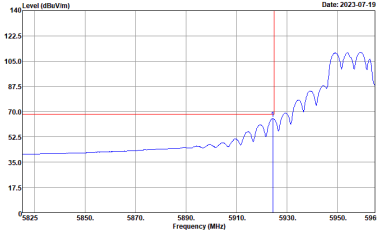
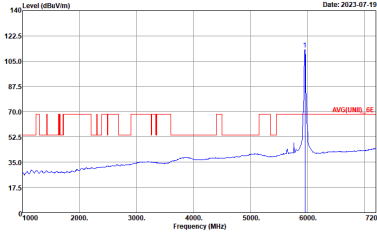


Appendix D. Radiated Spurious Emission Plots

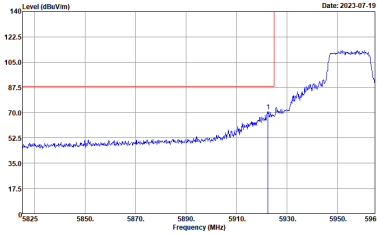
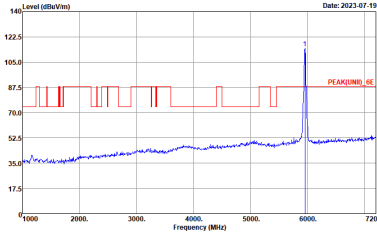
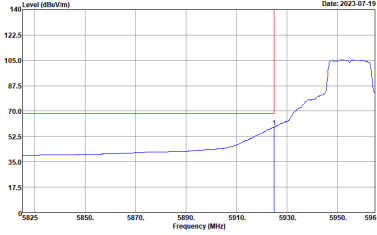
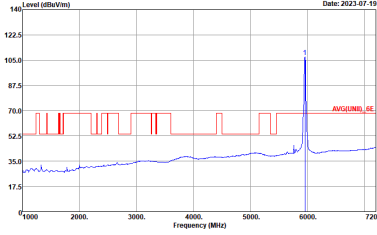
Test Engineer :	John Chuang, David Dai and Howard Huang	Temperature :	18.5~22.4°C
		Relative Humidity :	66.7~69.1%



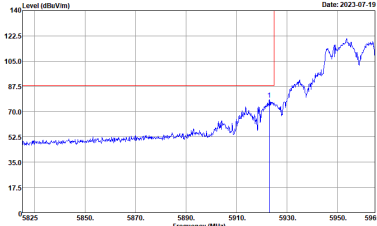
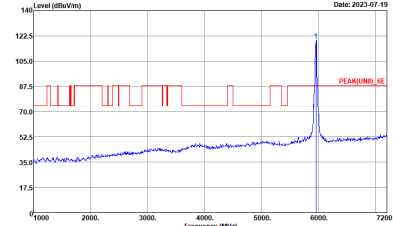
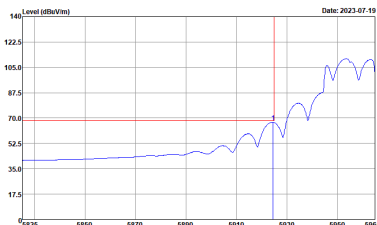
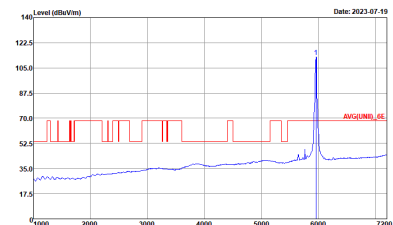
Band 5 - 5925~6425MHz
WIFI 802.11a (Band Edge @ 3m)

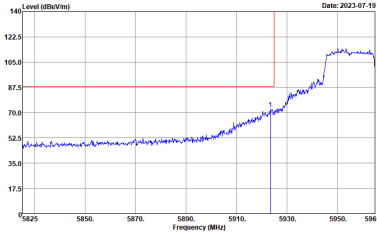
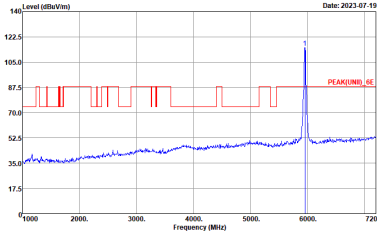
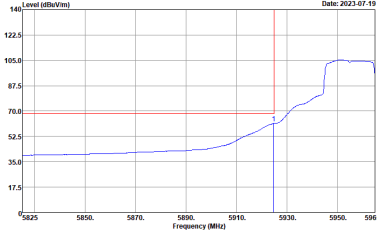
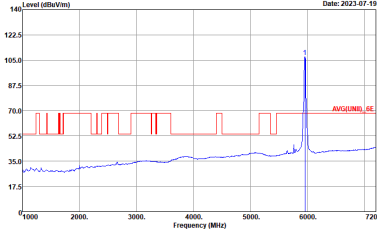
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH01 5955MHz	
7+8	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AVG_BE(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH20-HY Condition : AVG(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



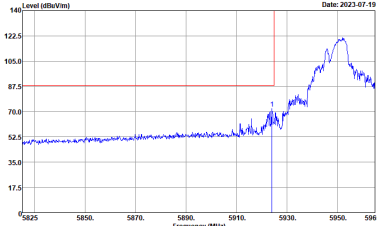
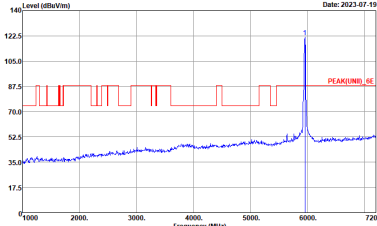
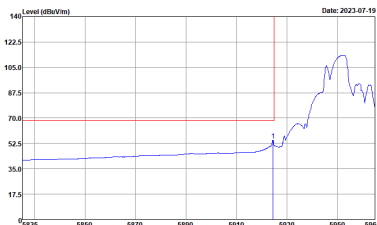
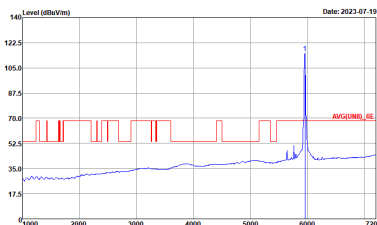
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH01 5955MHz	
7+8	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH20-HY Condition : AVG_BE(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH20-HY Condition : AVG(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

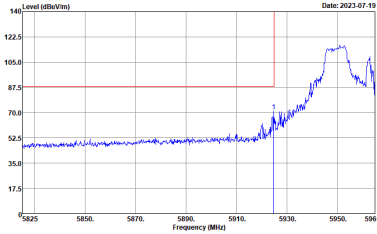
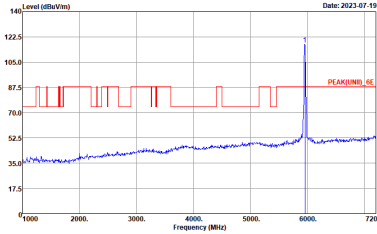
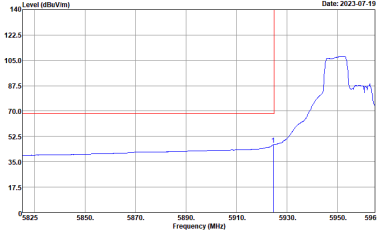
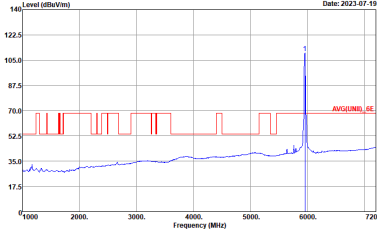
Band 5 5925~6425MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
7+8	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AVG_BE(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH20-HY Condition : AVG(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
7+8	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH20-HY Condition : AVG_BE(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH20-HY Condition : AVG(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto
Avg.		

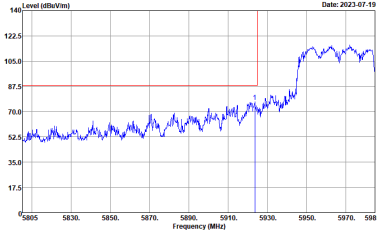
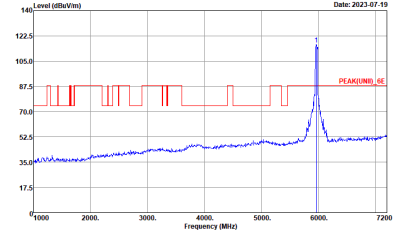
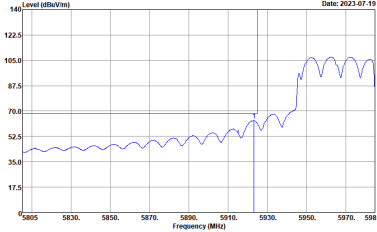
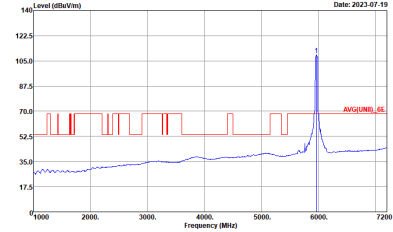
Band 5 5925~6425MHz
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

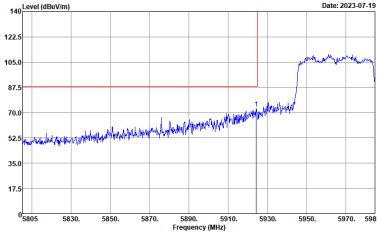
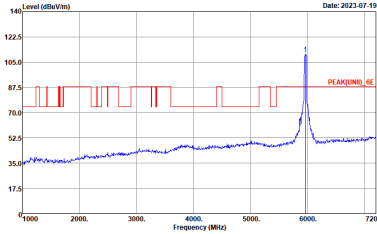
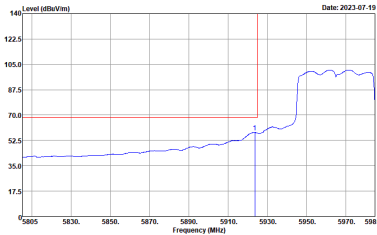
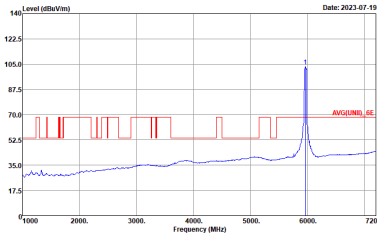
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH01 5955MHz	
7+8	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH20-HY Condition : AVG_BE(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH20-HY Condition : AVG(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH01 5955MHz	
7+8	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CH20-HY Condition : AVG_BE(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	 Site : 03CH20-HY Condition : AVG(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto
Avg.		



Band 5 5925~6425MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
7+8	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AVG_BE(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH20-HY Condition : AVG(UNIT)_6E 3m 91200_02360_221104 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
7+8	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH20-HY Condition : AVG_BE(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH20-HY Condition : AVG(UNIT)_6E 3m 91200_02360_221104 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto
Avg.		