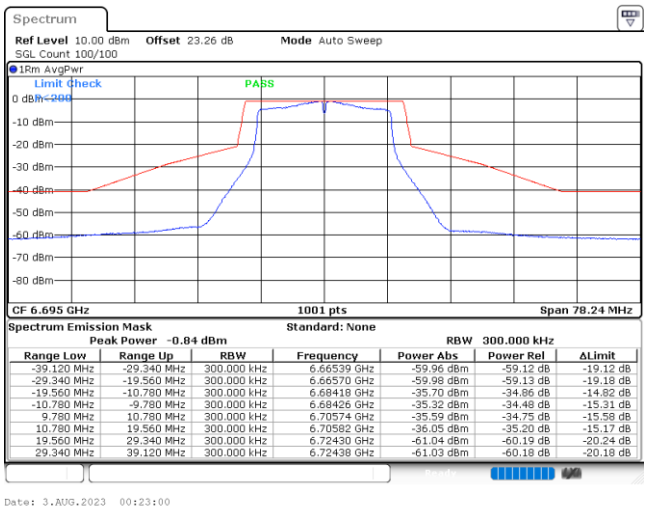
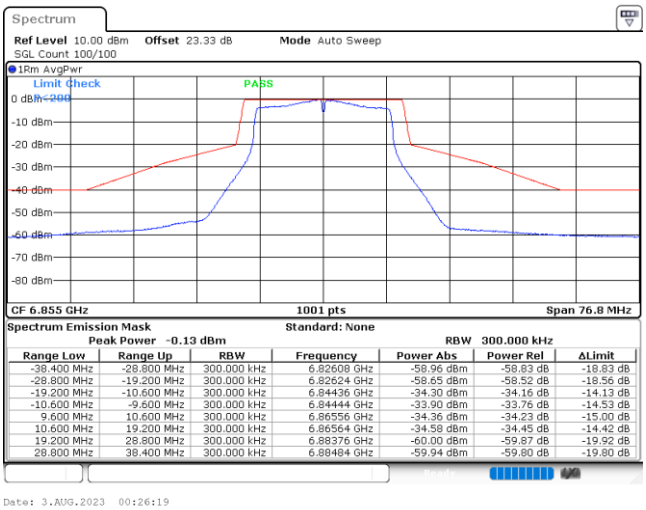
Plot on Channel 6695 MHz

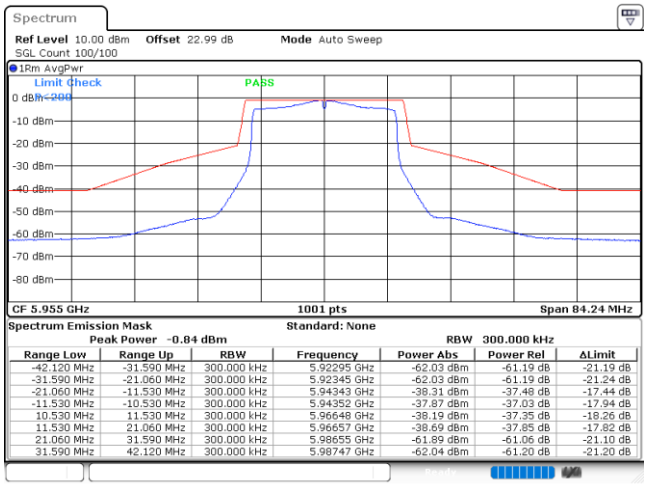


Plot on Channel 6855 MHz

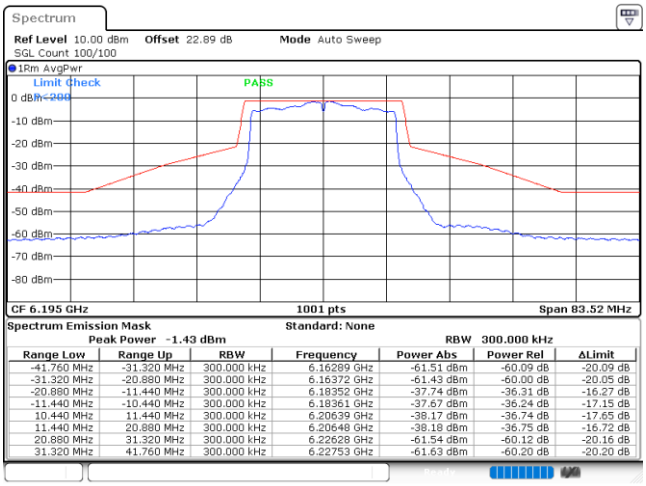


EUT Mode	802.11ax HE20 Full RU

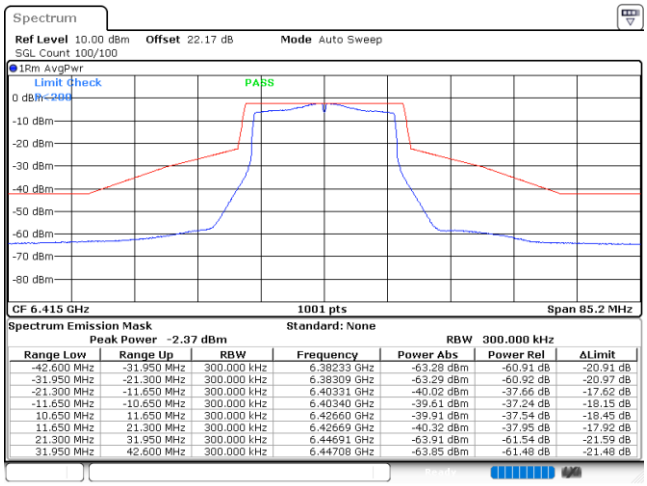
Plot on Channel 5955 MHz



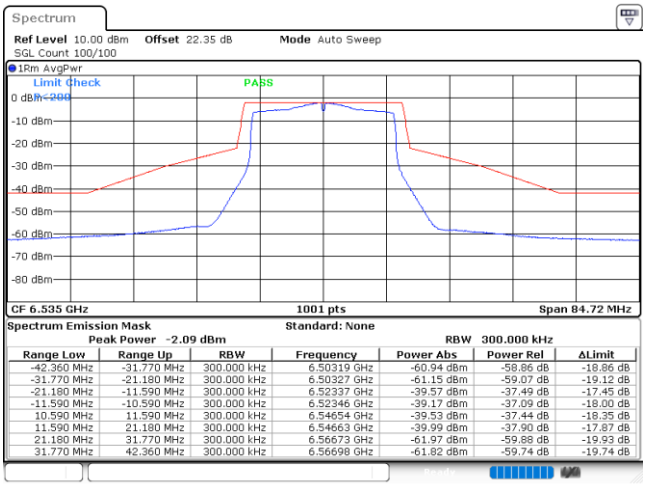
Plot on Channel 6195 MHz



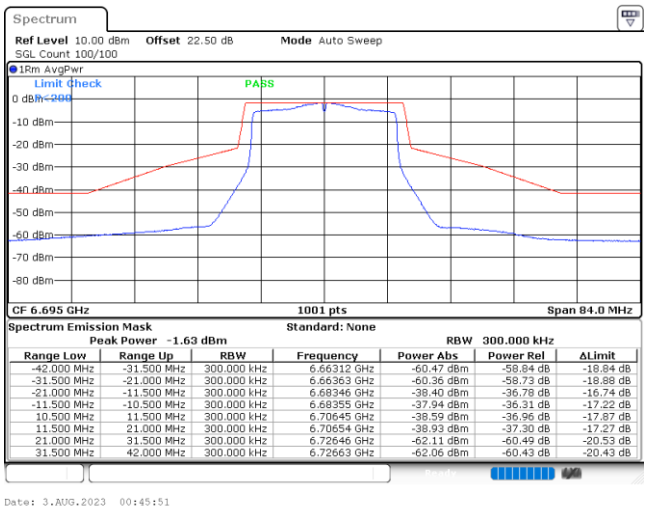
Plot on Channel 6415 MHz



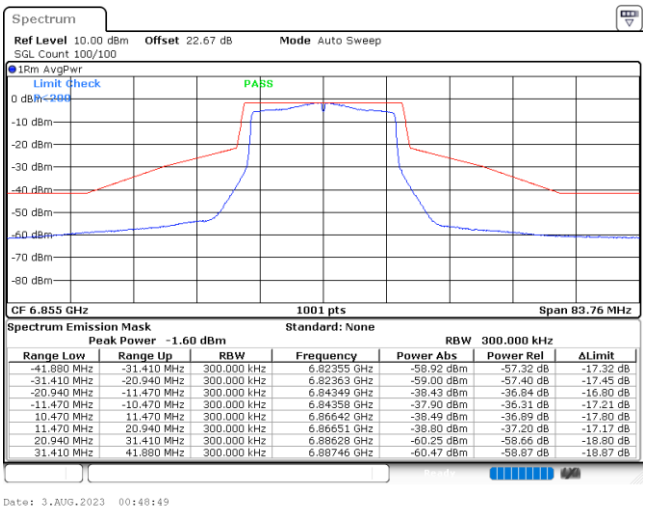
Plot on Channel 6535 MHz



Plot on Channel 6695 MHz

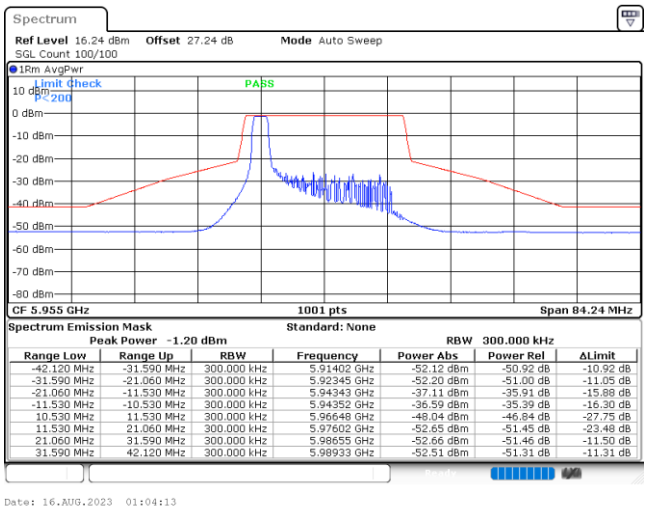


Plot on Channel 6855 MHz

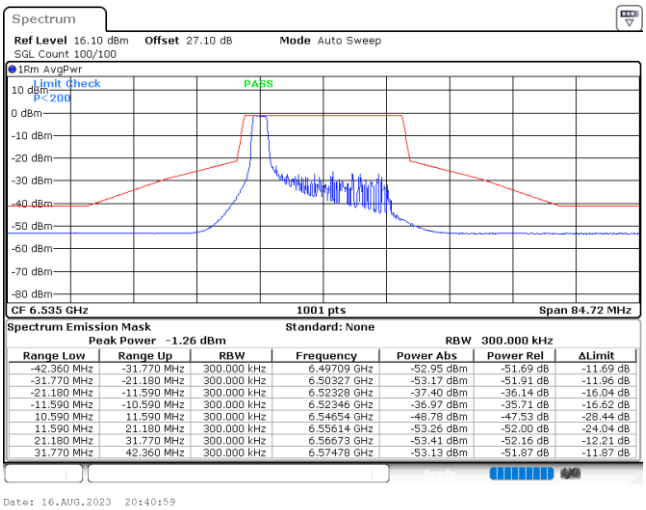


EUT Mode	802.11ax HE20 26RU0

Plot on Channel 5955 MHz

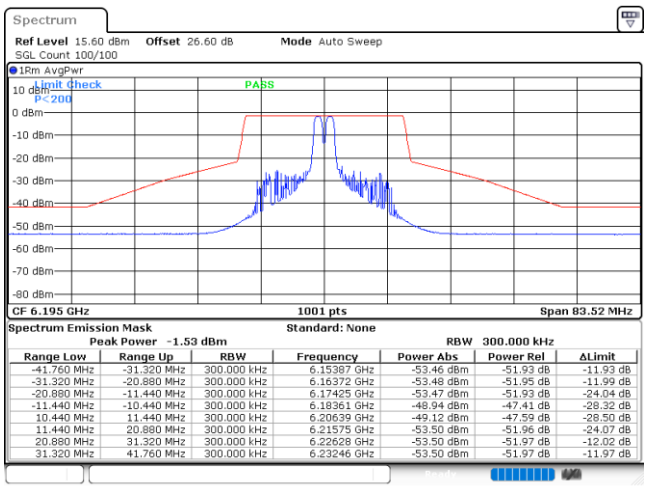


Plot on Channel 6535 MHz

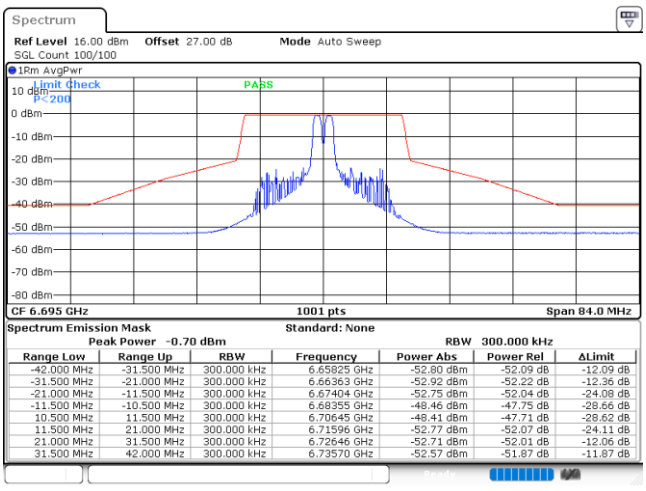


EUT Mode	802.11ax HE20 26RU4

Plot on Channel 6195 MHz

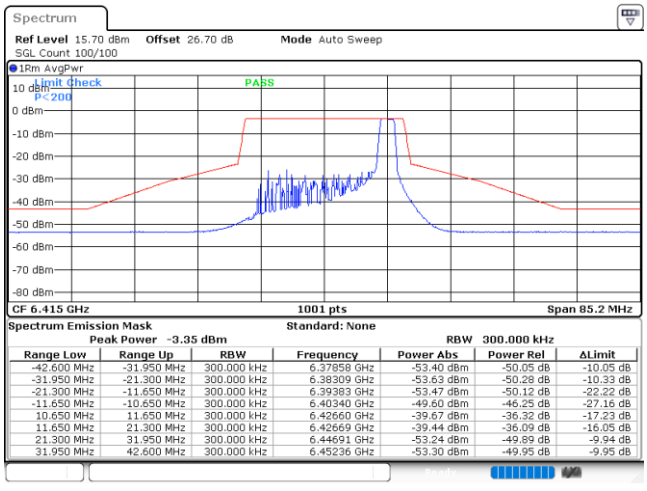


Plot on Channel 6695 MHz

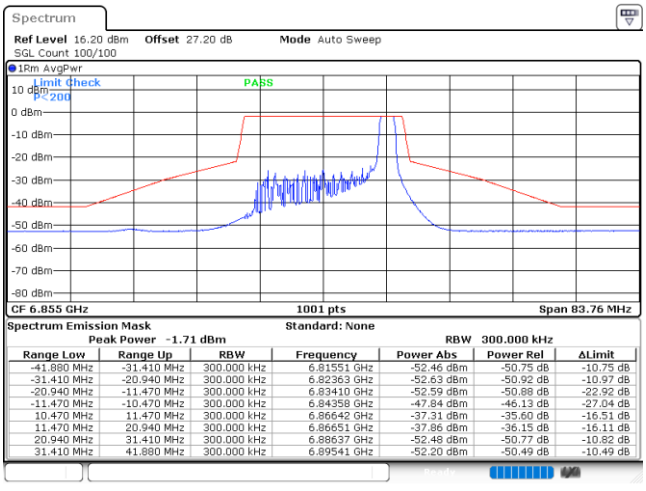


EUT Mode	802.11ax HE20 26RU8

Plot on Channel 6415 MHz

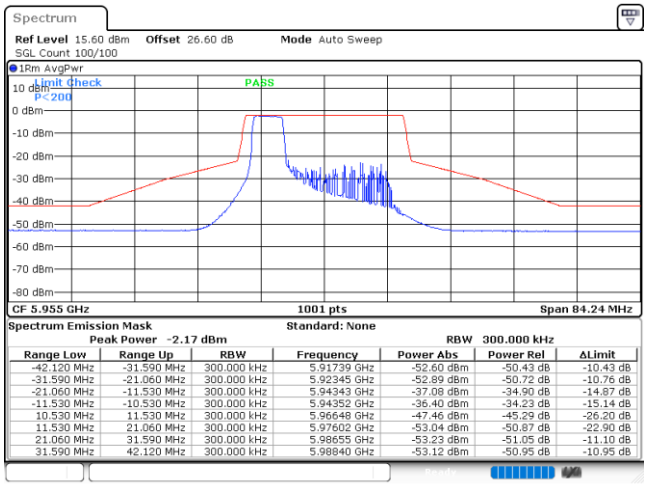


Plot on Channel 6855 MHz

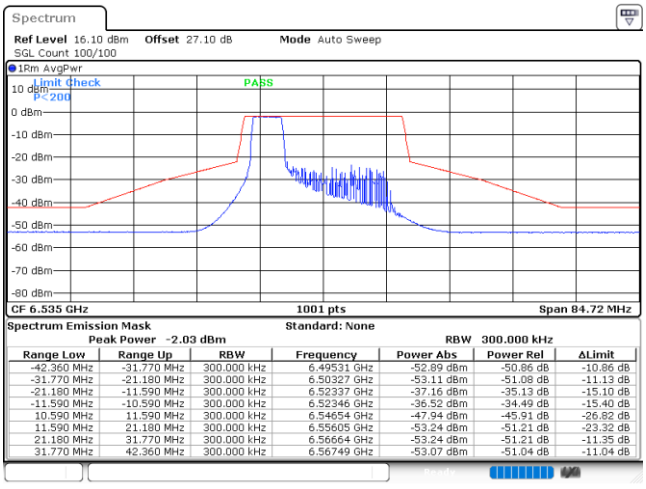


EUT Mode	802.11ax HE20 52RU37

Plot on Channel 5955 MHz

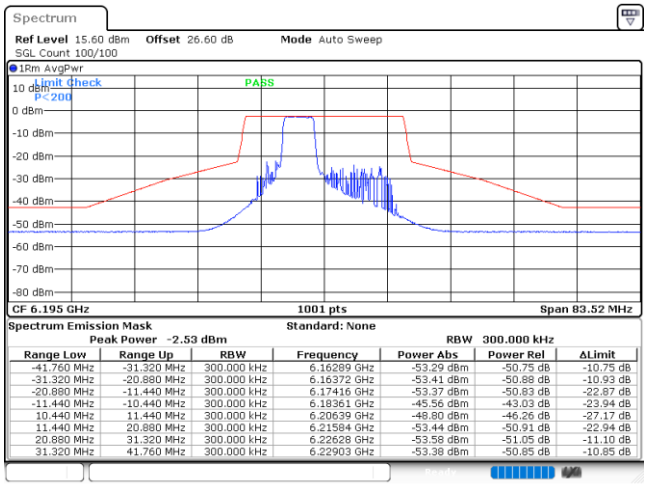


Plot on Channel 6535 MHz

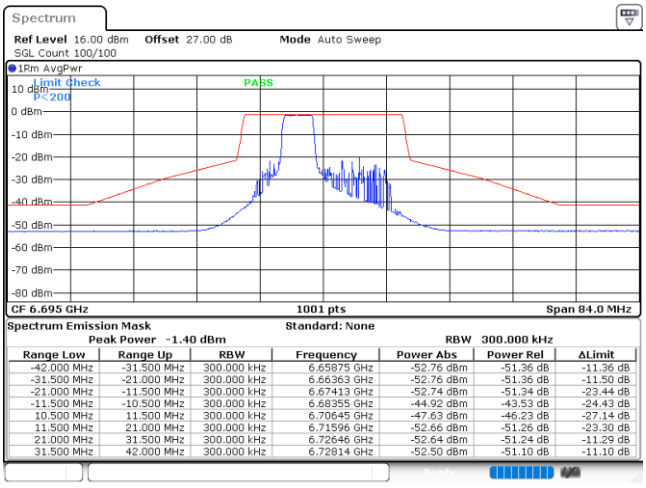


EUT Mode	802.11ax HE20 52RU38

Plot on Channel 6195 MHz

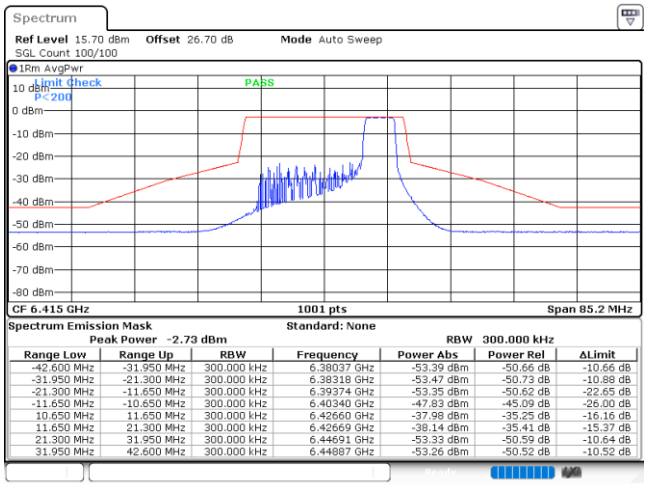


Plot on Channel 6695 MHz



EUT Mode	802.11ax HE20 52RU40

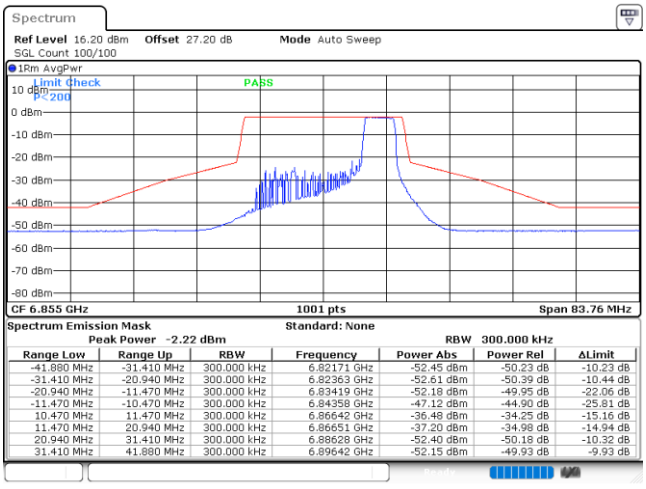
Plot on Channel 6415 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.600 MHz	-31.950 MHz	300.000 kHz	6.38037 GHz	-53.39 dBm	-50.66 dB	-10.66 dB
-31.950 MHz	-21.300 MHz	300.000 kHz	6.38318 GHz	-53.47 dBm	-50.73 dB	-10.88 dB
-21.300 MHz	-11.650 MHz	300.000 kHz	6.39374 GHz	-53.35 dBm	-50.62 dB	-22.65 dB
-11.650 MHz	-10.650 MHz	300.000 kHz	6.40340 GHz	-47.83 dBm	-45.09 dB	-26.00 dB
10.650 MHz	11.650 MHz	300.000 kHz	6.42660 GHz	-37.98 dBm	-35.25 dB	-16.16 dB
11.650 MHz	21.300 MHz	300.000 kHz	6.42669 GHz	-38.14 dBm	-35.41 dB	-15.37 dB
21.300 MHz	31.950 MHz	300.000 kHz	6.44691 GHz	-53.33 dBm	-50.59 dB	-10.64 dB
31.950 MHz	42.600 MHz	300.000 kHz	6.44887 GHz	-53.26 dBm	-50.52 dB	-10.52 dB

Date: 16.AUG.2023 20:29:56

Plot on Channel 6855 MHz

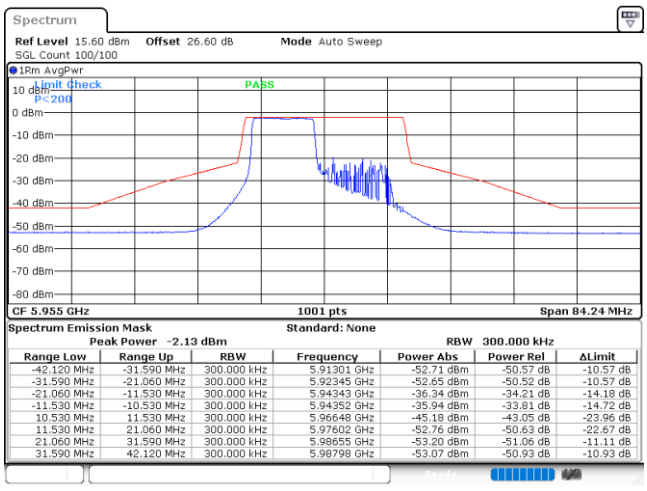


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.880 MHz	-31.410 MHz	300.000 kHz	6.82171 GHz	-52.45 dBm	-50.23 dB	-10.23 dB
-31.410 MHz	-20.940 MHz	300.000 kHz	6.82363 GHz	-52.61 dBm	-50.39 dB	-10.44 dB
-20.940 MHz	-11.470 MHz	300.000 kHz	6.83419 GHz	-52.18 dBm	-49.95 dB	-22.06 dB
-11.470 MHz	-10.470 MHz	300.000 kHz	6.84358 GHz	-47.12 dBm	-44.90 dB	-25.81 dB
10.470 MHz	11.470 MHz	300.000 kHz	6.86642 GHz	-36.48 dBm	-34.25 dB	-15.16 dB
11.470 MHz	20.940 MHz	300.000 kHz	6.86651 GHz	-37.20 dBm	-34.98 dB	-14.94 dB
20.940 MHz	31.410 MHz	300.000 kHz	6.88628 GHz	-52.40 dBm	-50.18 dB	-10.32 dB
31.410 MHz	41.880 MHz	300.000 kHz	6.89642 GHz	-52.15 dBm	-49.93 dB	-9.93 dB

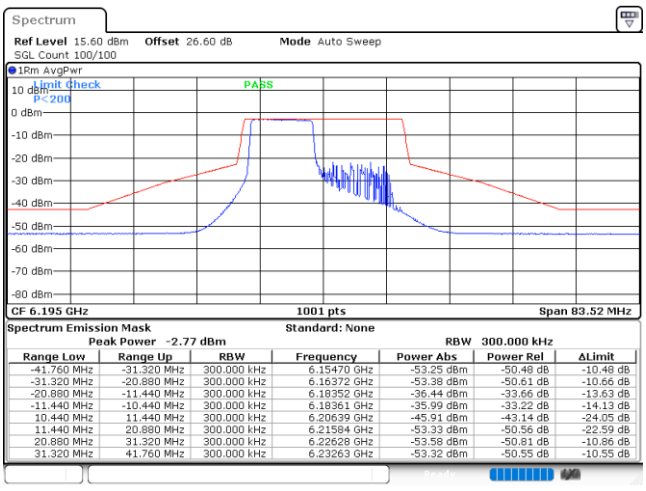
Date: 16.AUG.2023 22:23:21

EUT Mode	802.11ax HE20 106RU53

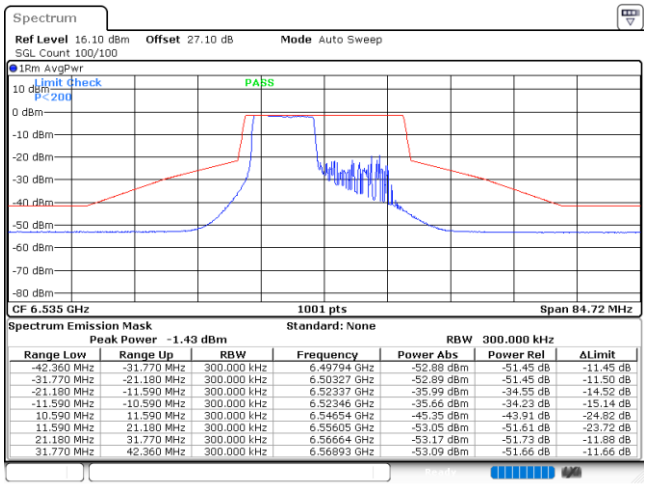
Plot on Channel 5955 MHz



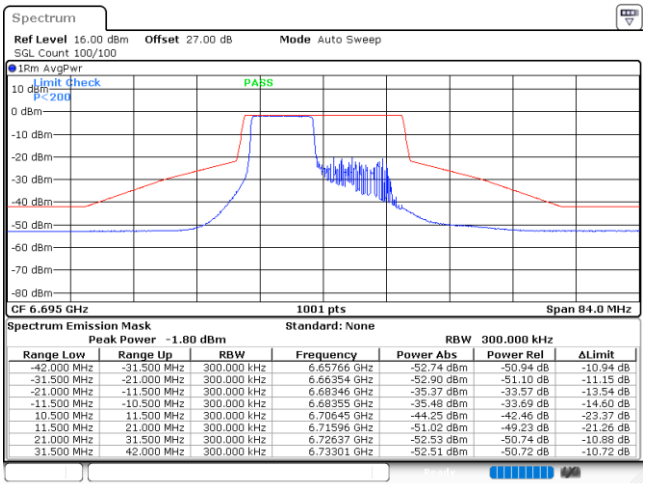
Plot on Channel 6195 MHz



Plot on Channel 6535 MHz

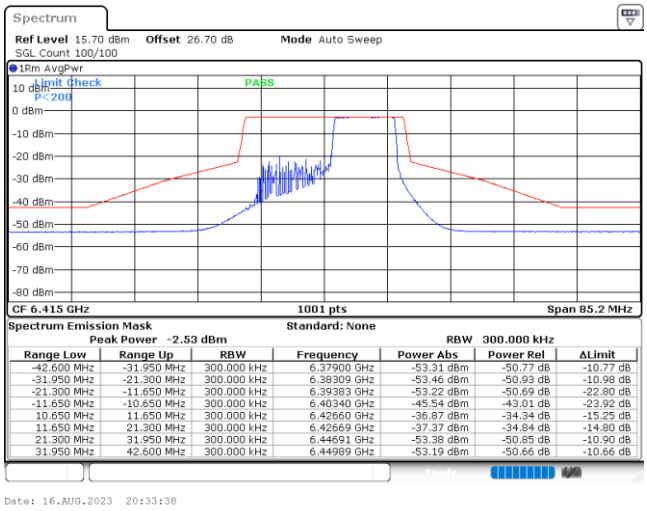


Plot on Channel 6695 MHz



EUT Mode	802.11ax HE20 106RU54

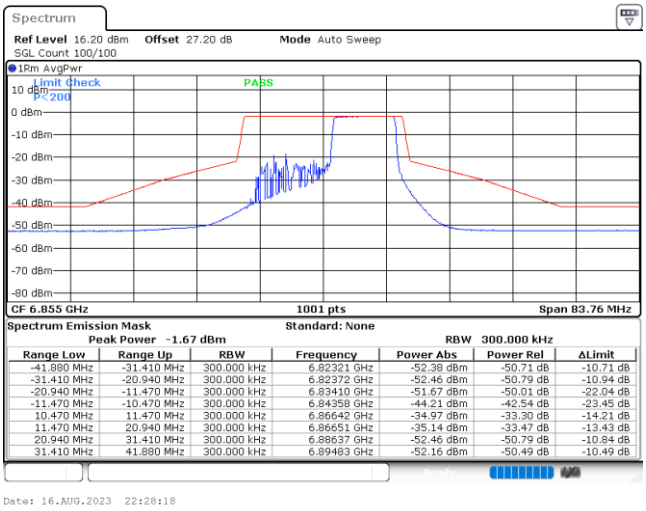
Plot on Channel 6415 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.600 MHz	-31.950 MHz	300.000 kHz	6.37900 GHz	-53.31 dBm	-50.77 dB	-10.77 dB
-31.950 MHz	-21.300 MHz	300.000 kHz	6.38309 GHz	-53.46 dBm	-50.93 dB	-10.98 dB
-21.300 MHz	-11.650 MHz	300.000 kHz	6.39383 GHz	-53.22 dBm	-50.69 dB	-22.80 dB
-11.650 MHz	-10.650 MHz	300.000 kHz	6.40340 GHz	-45.54 dBm	-43.01 dB	-23.92 dB
10.650 MHz	11.650 MHz	300.000 kHz	6.42660 GHz	-36.87 dBm	-34.34 dB	-15.25 dB
11.650 MHz	21.300 MHz	300.000 kHz	6.42669 GHz	-37.37 dBm	-34.84 dB	-14.80 dB
21.300 MHz	31.950 MHz	300.000 kHz	6.44691 GHz	-53.38 dBm	-50.85 dB	-10.90 dB
31.950 MHz	42.600 MHz	300.000 kHz	6.44989 GHz	-53.19 dBm	-50.66 dB	-10.66 dB

Date: 16.AUG.2023 20:33:38

Plot on Channel 6855 MHz

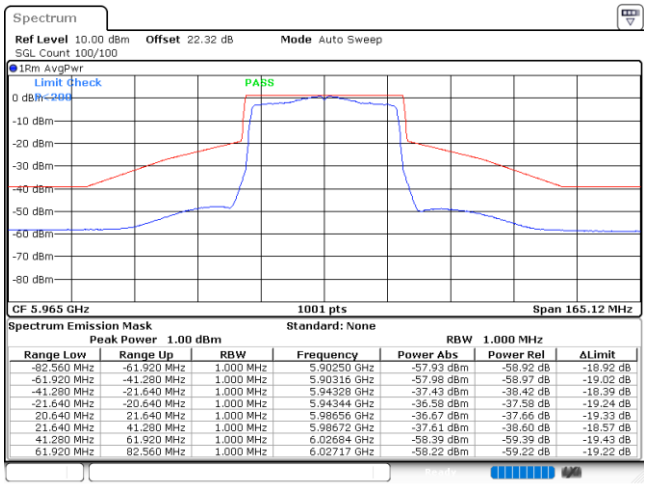


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.880 MHz	-31.410 MHz	300.000 kHz	6.82321 GHz	-52.38 dBm	-50.71 dB	-10.71 dB
-31.410 MHz	-20.940 MHz	300.000 kHz	6.82372 GHz	-52.46 dBm	-50.79 dB	-10.94 dB
-20.940 MHz	-11.470 MHz	300.000 kHz	6.83410 GHz	-51.67 dBm	-50.01 dB	-22.04 dB
-11.470 MHz	-10.470 MHz	300.000 kHz	6.84358 GHz	-44.21 dBm	-42.54 dB	-23.45 dB
10.470 MHz	11.470 MHz	300.000 kHz	6.86642 GHz	-34.97 dBm	-33.30 dB	-14.21 dB
11.470 MHz	20.940 MHz	300.000 kHz	6.86651 GHz	-35.14 dBm	-33.47 dB	-13.43 dB
20.940 MHz	31.410 MHz	300.000 kHz	6.88637 GHz	-52.46 dBm	-50.79 dB	-10.84 dB
31.410 MHz	41.880 MHz	300.000 kHz	6.89483 GHz	-52.16 dBm	-50.49 dB	-10.49 dB

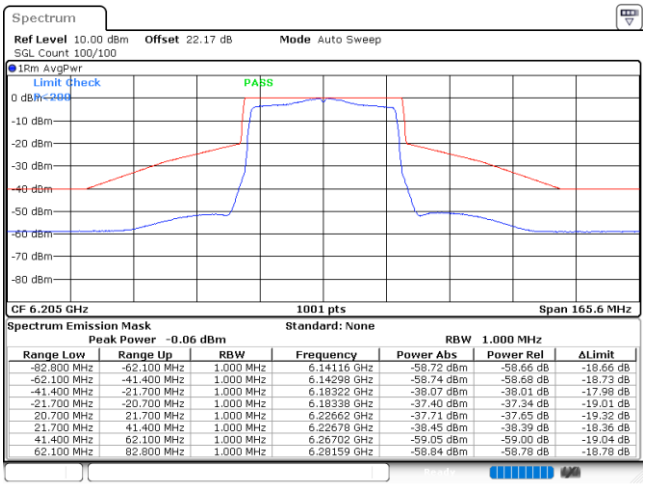
Date: 16.AUG.2023 22:28:18

EUT Mode	802.11ax HE40 Full RU

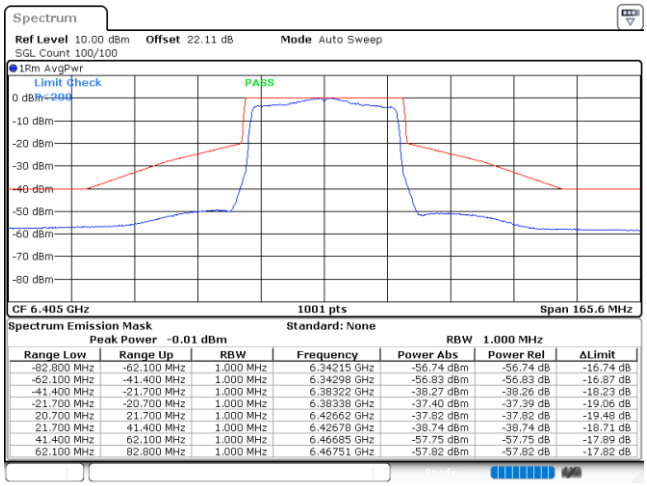
Plot on Channel 5965 MHz



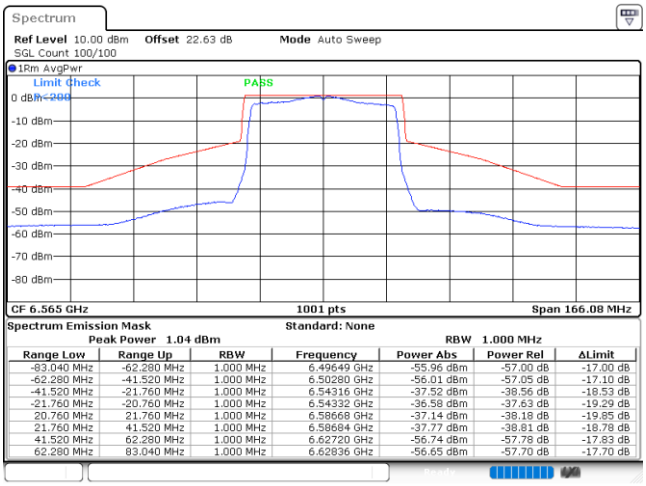
Plot on Channel 6205 MHz



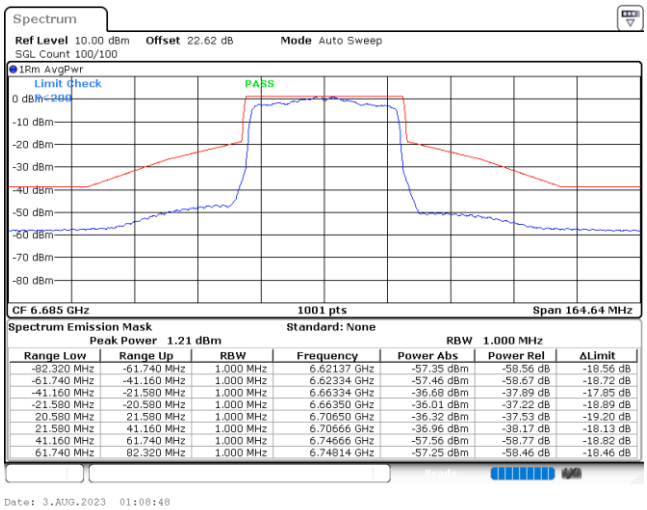
Plot on Channel 6405 MHz



Plot on Channel 6565 MHz



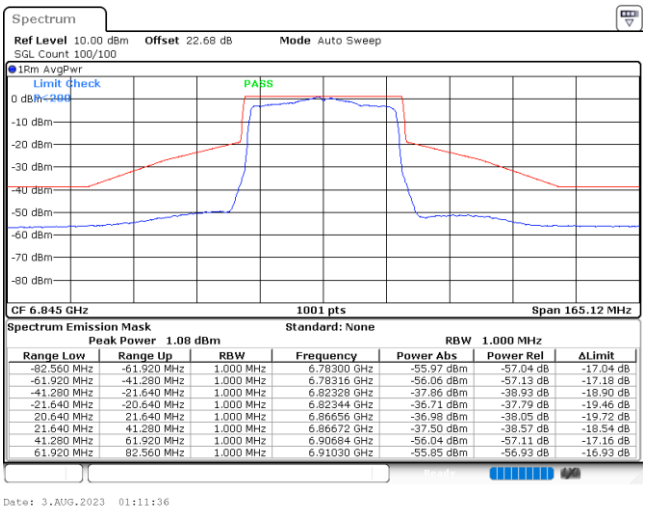
Plot on Channel 6685 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-92.320 MHz	-61.740 MHz	1.000 MHz	6.62137 GHz	-57.35 dBm	-58.56 dB	-18.56 dB
-61.740 MHz	-41.160 MHz	1.000 MHz	6.62334 GHz	-57.46 dBm	-58.67 dB	-18.72 dB
-41.160 MHz	-21.580 MHz	1.000 MHz	6.66334 GHz	-36.68 dBm	-37.89 dB	-17.85 dB
-21.580 MHz	-20.580 MHz	1.000 MHz	6.66350 GHz	-36.01 dBm	-37.22 dB	-18.89 dB
20.580 MHz	21.580 MHz	1.000 MHz	6.70650 GHz	-36.32 dBm	-37.53 dB	-19.20 dB
21.580 MHz	41.160 MHz	1.000 MHz	6.70666 GHz	-36.96 dBm	-38.17 dB	-18.13 dB
41.160 MHz	61.740 MHz	1.000 MHz	6.74666 GHz	-57.56 dBm	-58.77 dB	-18.82 dB
61.740 MHz	82.320 MHz	1.000 MHz	6.74814 GHz	-57.25 dBm	-58.46 dB	-18.46 dB

Date: 3.AUG.2023 01:08:48

Plot on Channel 6845 MHz

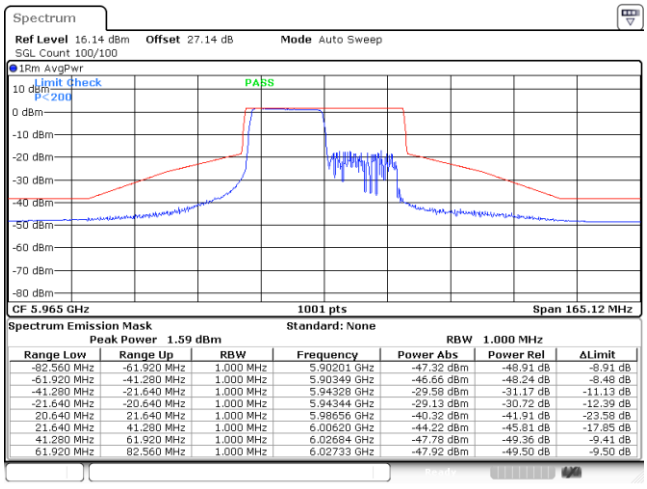


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-82.560 MHz	-61.920 MHz	1.000 MHz	6.78300 GHz	-55.97 dBm	-57.04 dB	-17.04 dB
-61.920 MHz	-41.280 MHz	1.000 MHz	6.78316 GHz	-56.06 dBm	-57.13 dB	-17.18 dB
-41.280 MHz	-21.640 MHz	1.000 MHz	6.82328 GHz	-37.86 dBm	-38.93 dB	-18.90 dB
-21.640 MHz	-20.640 MHz	1.000 MHz	6.82344 GHz	-36.71 dBm	-37.79 dB	-19.46 dB
20.640 MHz	21.640 MHz	1.000 MHz	6.86656 GHz	-36.98 dBm	-38.05 dB	-19.72 dB
21.640 MHz	41.280 MHz	1.000 MHz	6.86672 GHz	-37.50 dBm	-38.57 dB	-18.54 dB
41.280 MHz	61.920 MHz	1.000 MHz	6.90684 GHz	-56.04 dBm	-57.11 dB	-17.16 dB
61.920 MHz	82.560 MHz	1.000 MHz	6.91030 GHz	-55.85 dBm	-56.93 dB	-16.93 dB

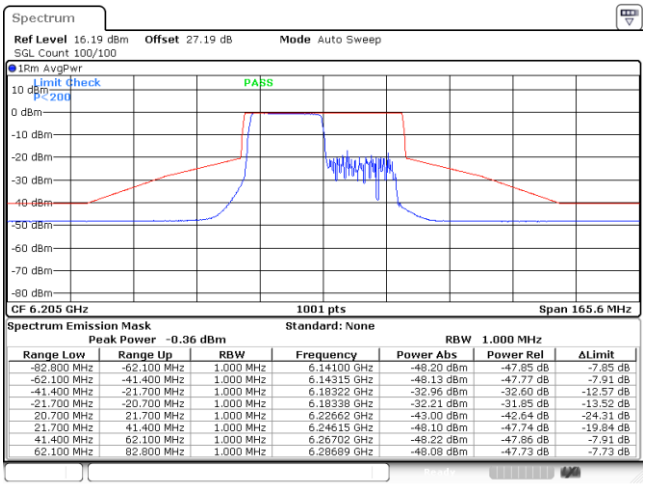
Date: 3.AUG.2023 01:11:36

EUT Mode	802.11ax HE40 242RU61

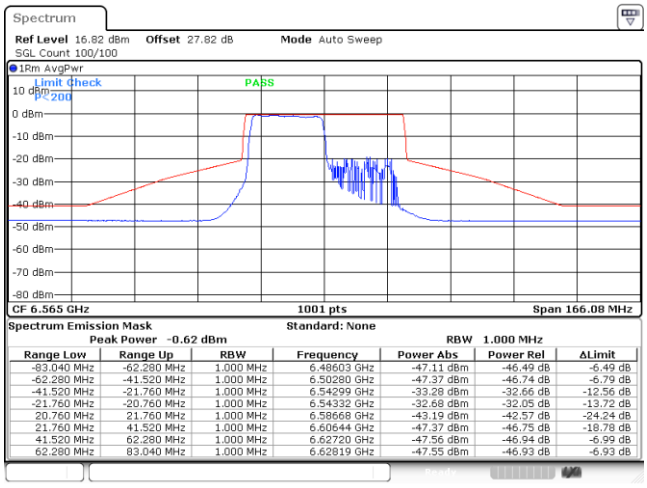
Plot on Channel 5965 MHz



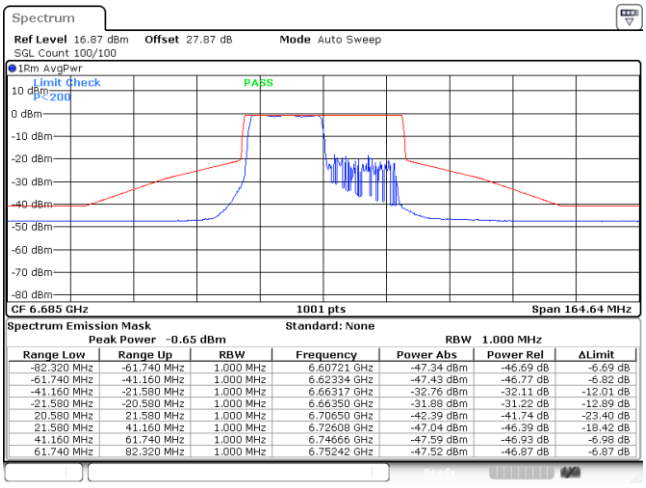
Plot on Channel 6205 MHz



Plot on Channel 6565 MHz

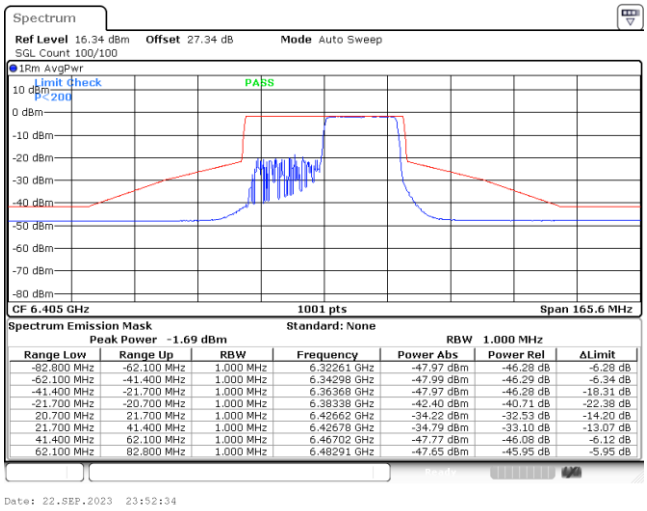


Plot on Channel 6685 MHz

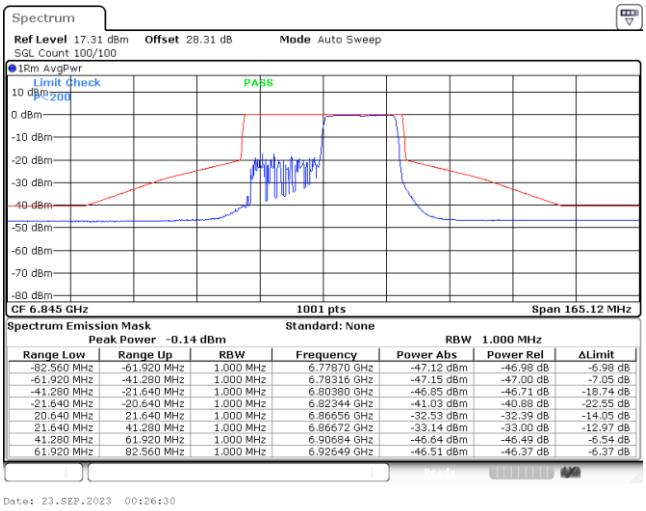


EUT Mode	802.11ax HE40 242RU62

Plot on Channel 6405 MHz

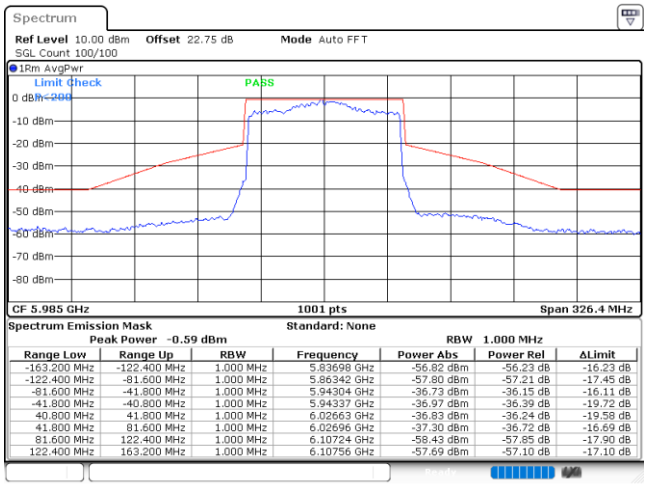


Plot on Channel 6845 MHz

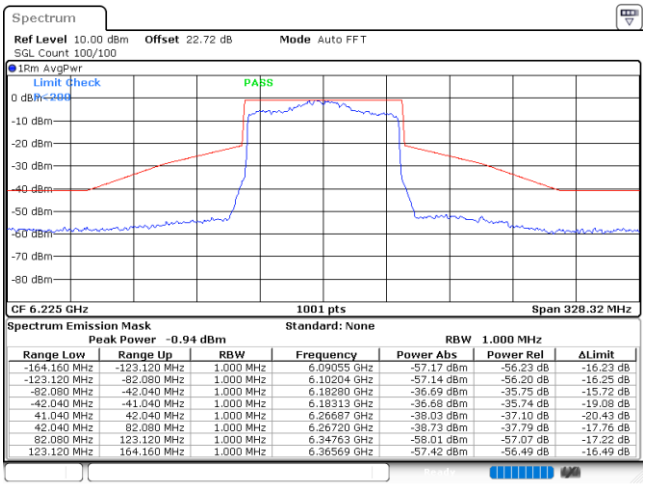


EUT Mode	802.11ax HE80 Full RU

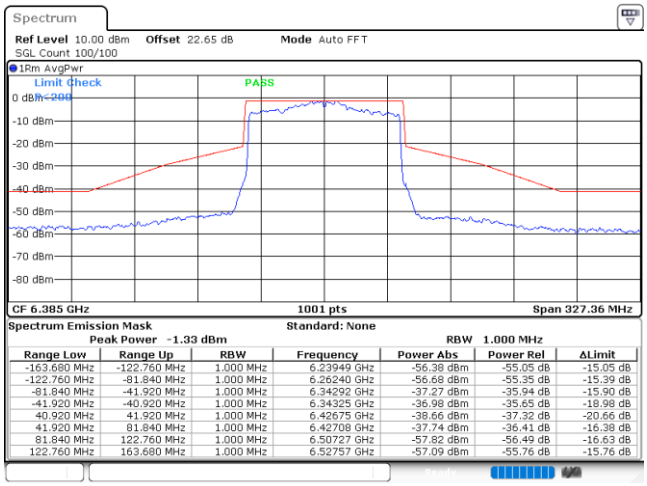
Plot on Channel 5985 MHz



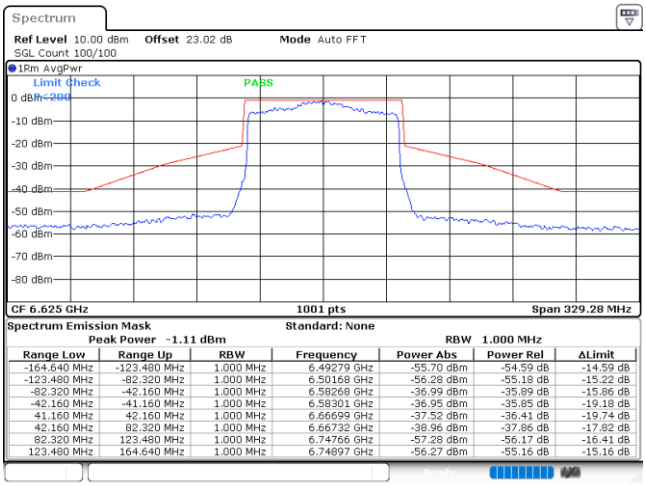
Plot on Channel 6225 MHz



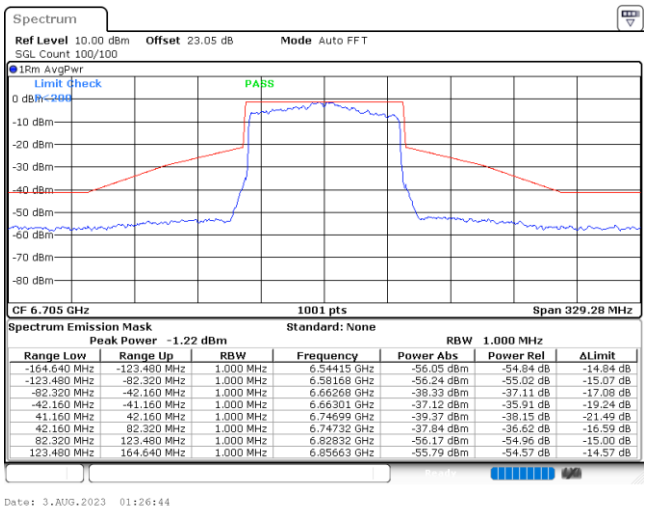
Plot on Channel 6385 MHz



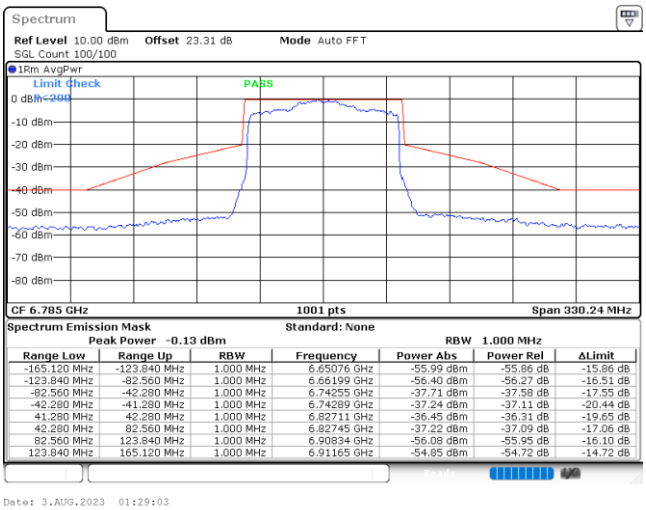
Plot on Channel 6625 MHz



Plot on Channel 6705 MHz

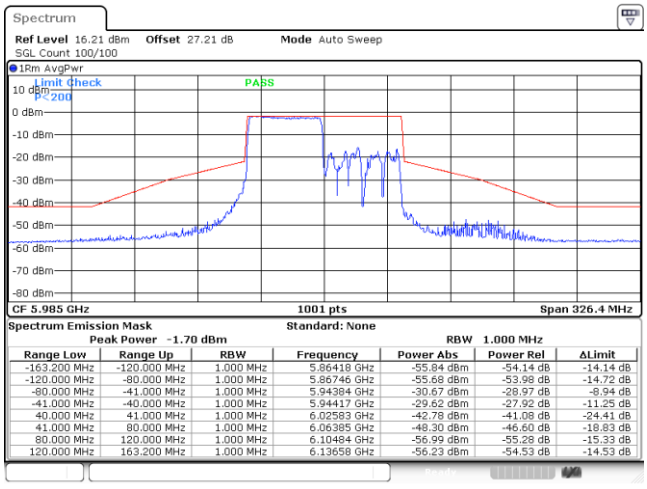


Plot on Channel 6785 MHz

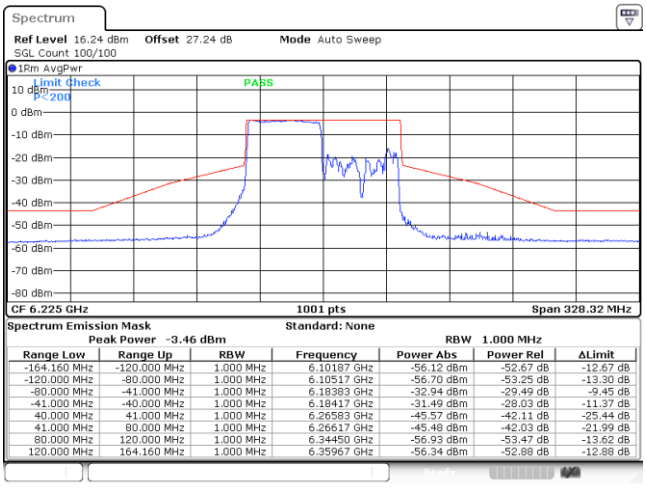


EUT Mode	802.11ax HE80 484RU65

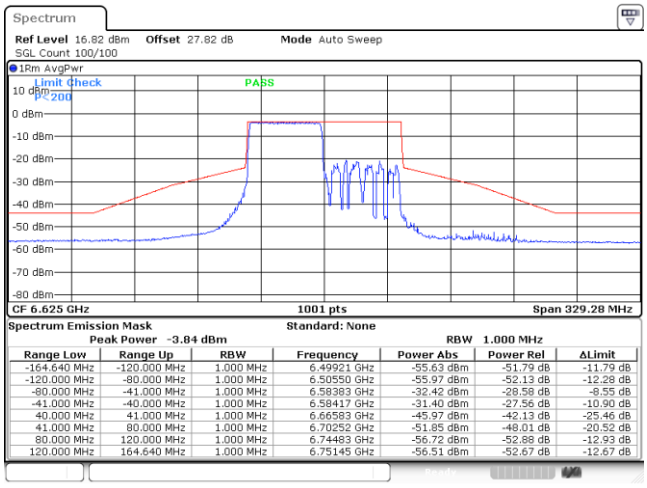
Plot on Channel 5985 MHz



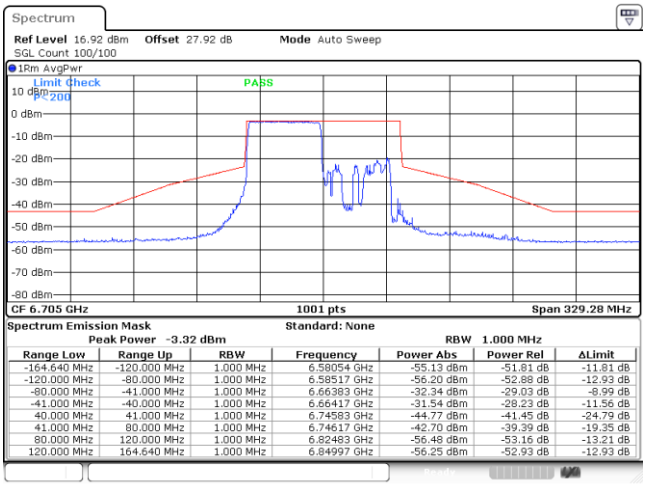
Plot on Channel 6225 MHz



Plot on Channel 6625 MHz

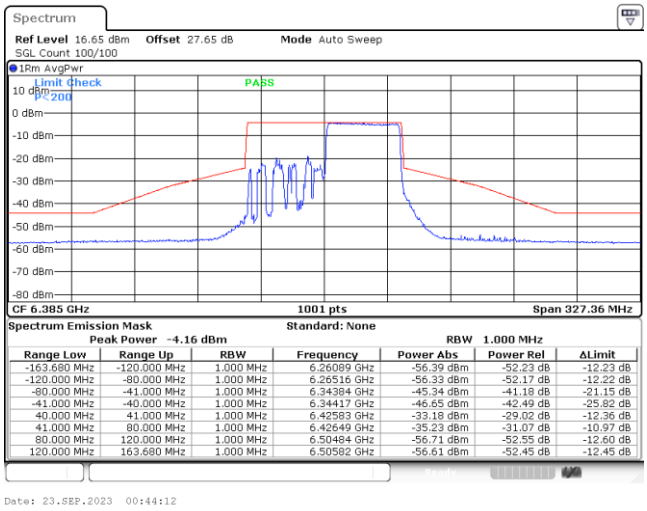


Plot on Channel 6705 MHz

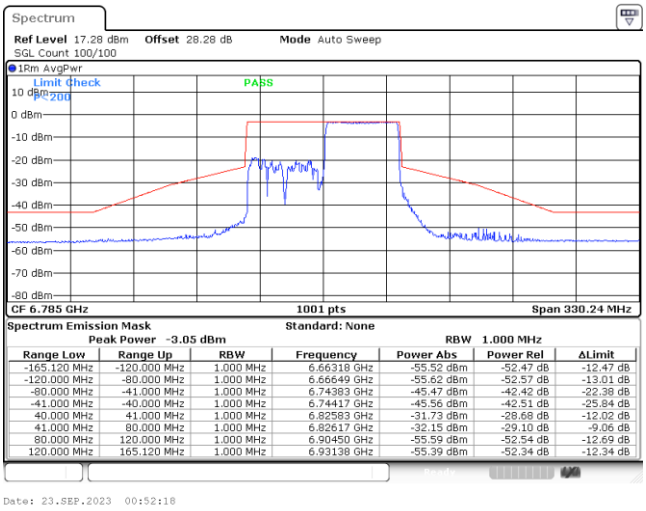


EUT Mode	802.11ax HE80 484RU66

Plot on Channel 6385 MHz

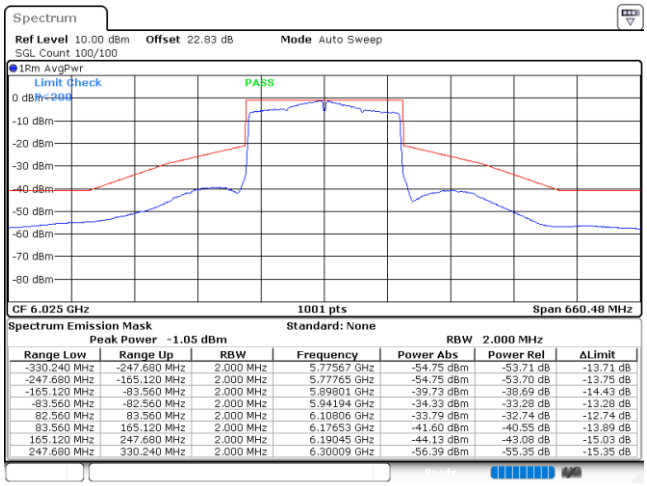


Plot on Channel 6785 MHz

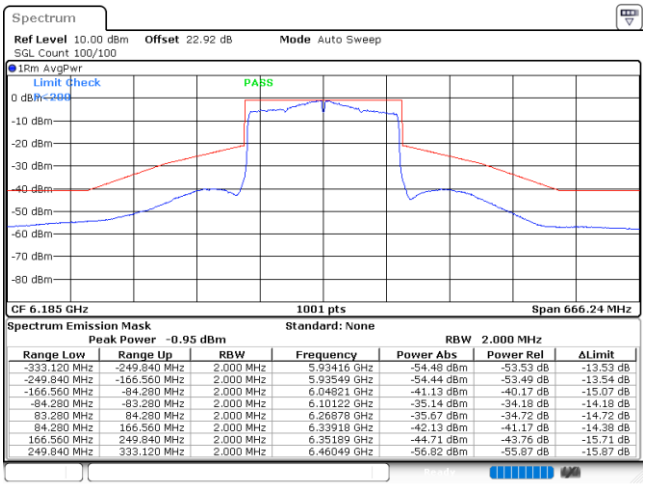


EUT Mode	802.11ax HE160 Full RU

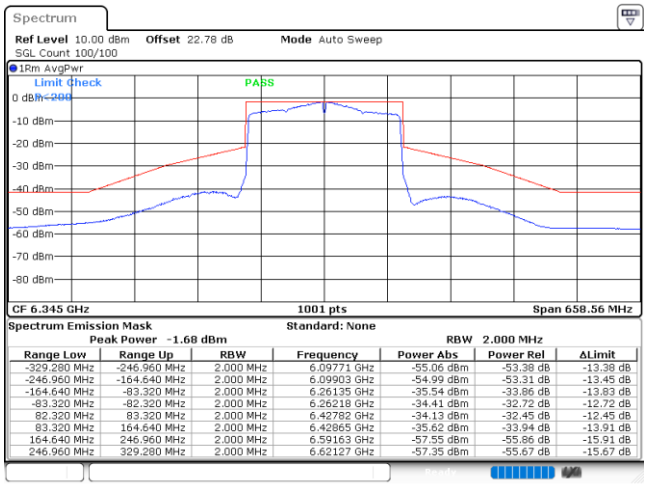
Plot on Channel 6025 MHz



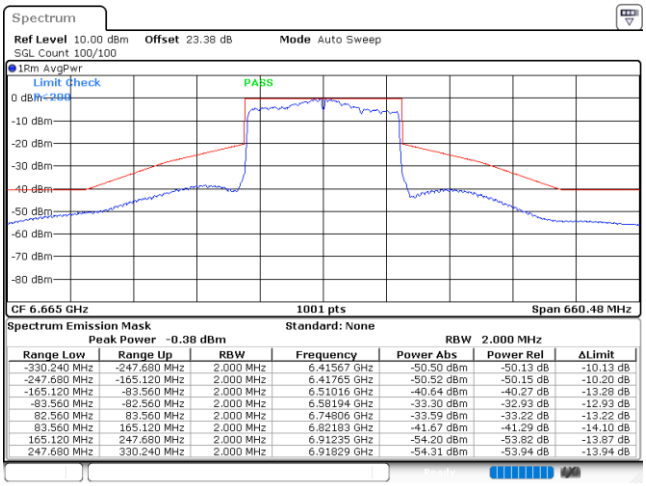
Plot on Channel 6185 MHz



Plot on Channel 6345 MHz

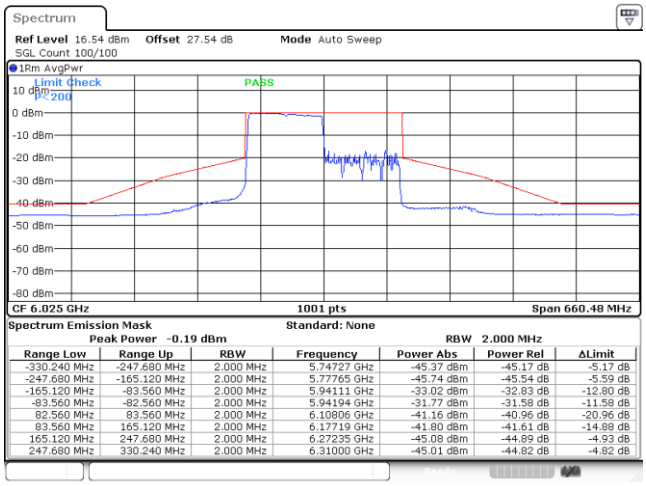


Plot on Channel 6665 MHz



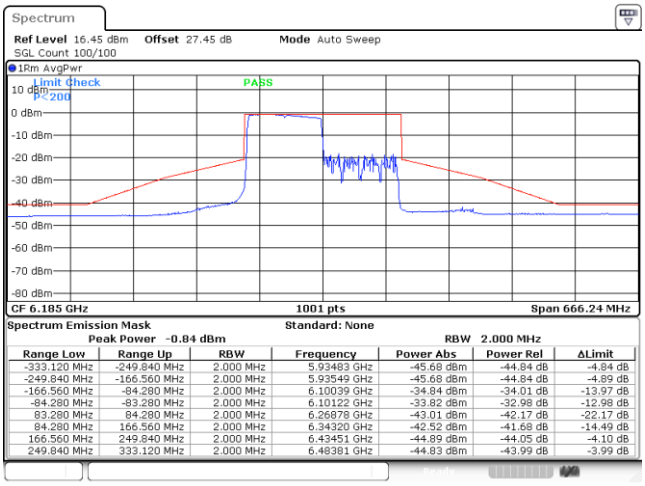
EUT Mode	802.11ax HE160 996RU67

Plot on Channel 6025 MHz



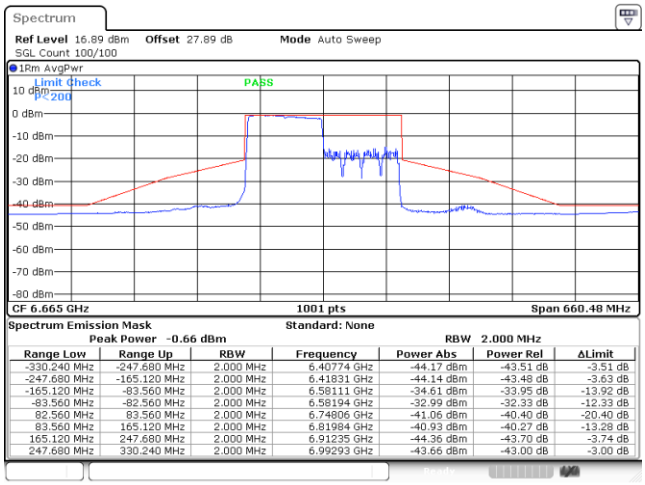
Date: 23.SEP.2023 01:06:25

Plot on Channel 6185 MHz



Date: 23.SEP.2023 01:10:14

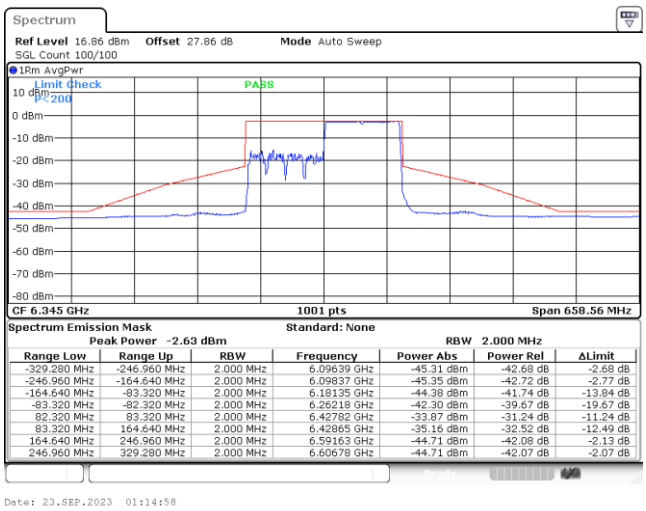
Plot on Channel 6665 MHz



Date: 23.SEP.2023 01:17:35

EUT Mode	802.11ax HE160 996RUS67

Plot on Channel 6345 MHz



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.

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/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

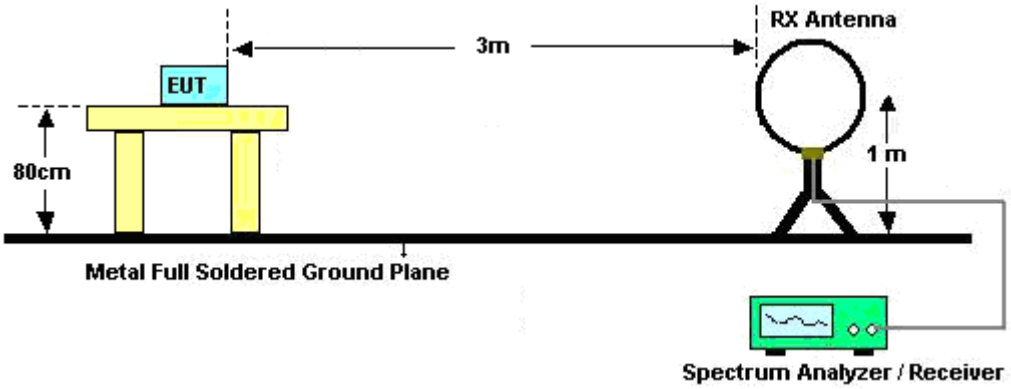
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

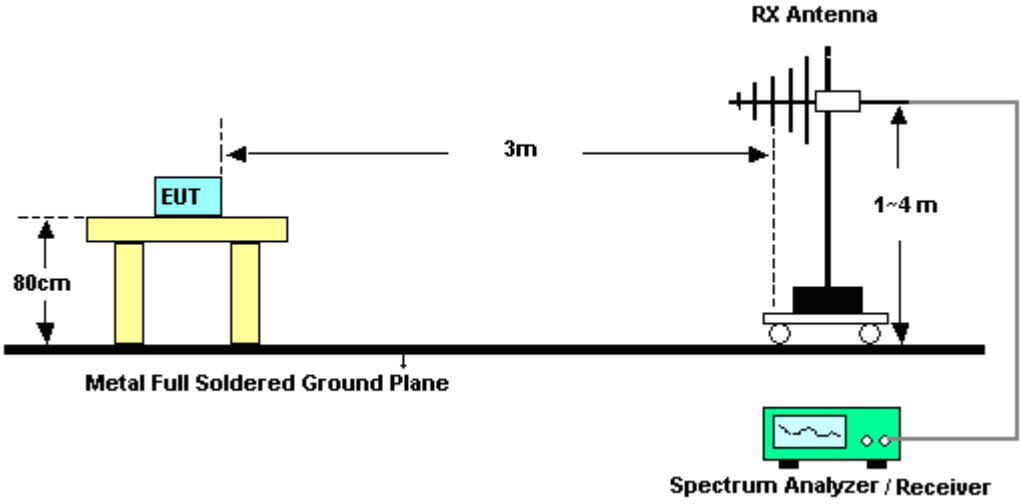
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. 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

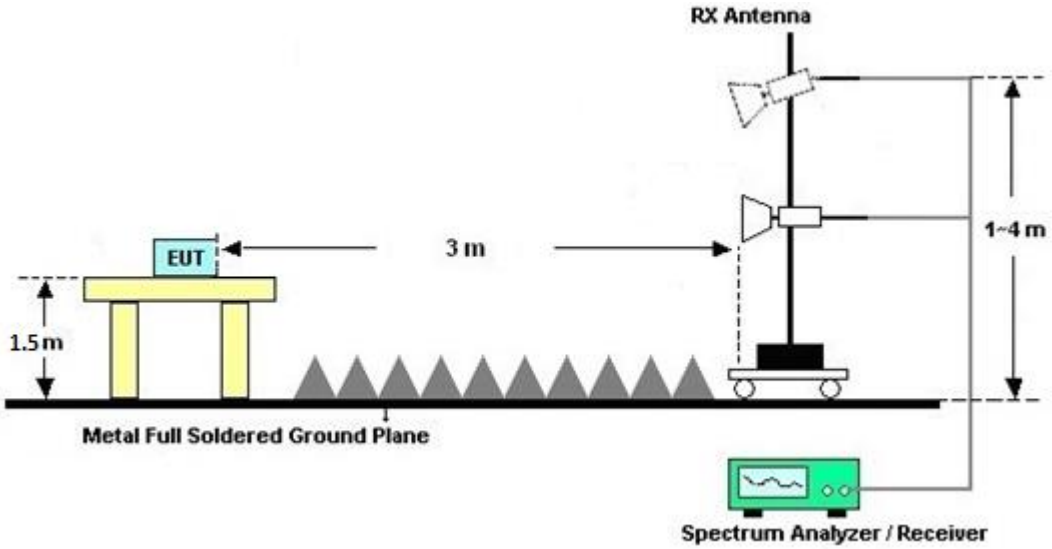
For radiated emissions below 30MHz



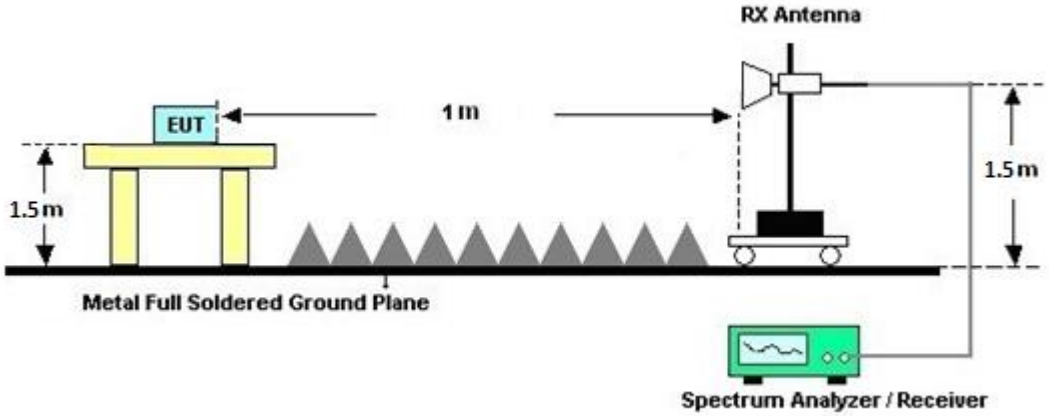
For radiated emissions from 30MHz to 1GHz



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 (dBμV)	
	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.

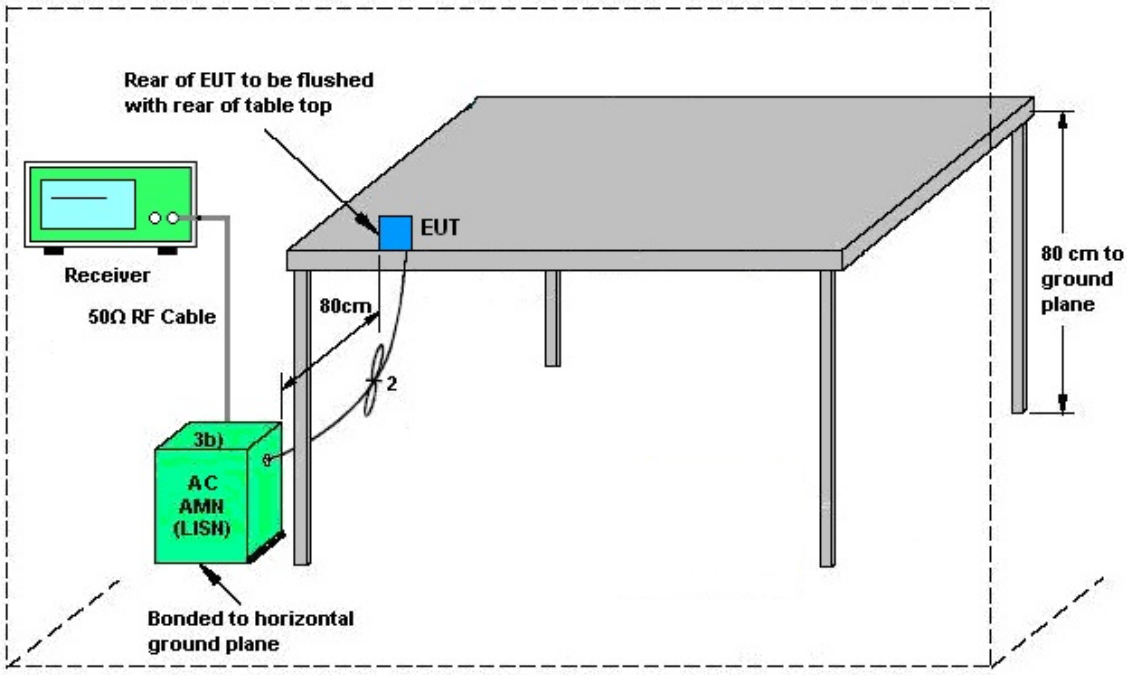
3.6.2 Measuring Instruments

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



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

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
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 17. 2022	Jul. 07, 2023~ Sep. 22, 2023	Nov. 16. 2023	Conducted (TH05-HY)
Power Sensor	DARE	RPR3008W	RPR8W-2101 001 (NO:146)	10MHz~8GHz	Feb. 07, 2023	Jul. 07, 2023~ Sep. 22, 2023	Feb. 06, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 13, 2022	Jul. 07, 2023~ Sep. 11, 2023	Sep. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 12, 2023	Sep. 12, 2023~ Sep. 22, 2023	Sep. 11, 2024	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Jul. 22, 2023~ Aug. 31, 2023	Sep. 19, 2023	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 24, 2022	Jul. 22, 2023 ~ Aug. 11, 2023	Aug. 23, 2023	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz~18GHz	Mar. 23, 2023	Aug. 12, 2023~ Aug. 31, 2023	Mar. 22, 2024	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 24, 2022	Jul. 22, 2023~ Aug. 31, 2023	Nov. 23, 2023	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 09, 2022	Jul. 22, 2023~ Aug. 31, 2023	Nov. 08, 2023	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-303	17100018000 55007	1GHz~18GHz	Jun. 14, 2023	Jul. 22, 2023~ Aug. 31, 2023	Jun. 13, 2024	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 27, 2023	Jul. 22, 2023~ Aug. 31, 2023	Jun. 26, 2024	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 07, 2022	Jul. 22, 2023~ Aug. 31, 2023	Oct. 06, 2023	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 18, 2022	Jul. 22, 2023~ Aug. 31, 2023	Oct. 17, 2023	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jul. 22, 2023~ Aug. 31, 2023	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jul. 22, 2023~ Aug. 31, 2023	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jul. 22, 2023~ Aug. 31, 2023	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Jul. 22, 2023~ Aug. 31, 2023	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar. 07, 2023	Jul. 22, 2023~ Aug. 31, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801595/2	30MHz~40GHz	Mar. 07, 2023	Jul. 22, 2023~ Aug. 31, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 07, 2023	Jul. 22, 2023~ Aug. 31, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 07, 2023	Jul. 22, 2023~ Aug. 31, 2023	Mar. 06, 2024	Radiation (03CH11-HY)
Filter	Wainwright	WHKX6-7268-9200-26500-40CD	SN1	9GHz High Pass Filter	May 23, 2023	Jul. 22, 2023~ Aug. 31, 2023	May 22, 2024	Radiation (03CH11-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 18, 2023	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2022	Jul. 18, 2023	Nov. 30, 2023	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2022	Jul. 18, 2023	Nov. 16, 2023	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 17, 2022	Jul. 18, 2023	Nov. 16, 2023	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Jul. 18, 2023	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Aug. 01, 2022	Jul. 18, 2023	Jul. 31, 2023	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 29, 2022	Jul. 18, 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**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.30 dB**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.40 dB**

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.80 dB**

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.30 dB**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu	Temperature:	21~25	°C
Test Date:	2023/7/7~2023/9/23	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 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	001	5955	16.33	16.28	19.80	19.68	320.00	Pass
11a	6Mbps	2	049	6195	16.33	16.28	19.68	19.50	320.00	Pass
11a	6Mbps	2	093	6415	16.33	16.33	19.50	19.44	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 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
11a	6Mbps	2	001	5955	15.10	15.20	18.16	1.59		19.75	30.00	Pass
11a	6Mbps	2	049	6195	15.20	15.00	18.11	1.59		19.70	30.00	Pass
11a	6Mbps	2	093	6415	15.50	14.30	17.95	1.59		19.54	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 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
11a	6Mbps	2	001	5955	0.68	0.66			7.53	4.55		12.08	17.00	Pass
11a	6Mbps	2	049	6195	0.68	0.66			7.53	4.55		12.08	17.00	Pass
11a	6Mbps	2	093	6415	0.68	0.66			7.67	4.55		12.22	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 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	117	6535	16.33	16.33	19.50	19.56	320.00	Pass
11a	6Mbps	2	149	6695	16.33	16.33	19.56	19.56	320.00	Pass
11a	6Mbps	2	181	6855	16.33	16.33	19.62	19.20	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 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
11a	6Mbps	2	117	6535	15.80	15.00	18.43	1.46		19.89	30.00	Pass
11a	6Mbps	2	149	6695	15.90	15.80	18.86	1.46		20.32	30.00	Pass
11a	6Mbps	2	181	6855	15.60	15.80	18.71	1.46		20.17	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 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
11a	6Mbps	2	117	6535	0.68	0.66			7.91	4.37		12.28	17.00	Pass
11a	6Mbps	2	149	6695	0.68	0.66			7.96	4.37		12.32	17.00	Pass
11a	6Mbps	2	181	6855	0.68	0.66			7.89	4.37		12.26	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 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	001	5955	Full	18.83	18.83	21.06	21.06	320.00	Pass
HE20	MCS0	2	049	6195	Full	18.88	18.88	21.06	20.88	320.00	Pass
HE20	MCS0	2	093	6415	Full	18.83	18.83	21.00	21.30	320.00	Pass
HE40	MCS0	2	003	5965	Full	37.76	37.66	41.40	41.28	320.00	Pass
HE40	MCS0	2	051	6205	Full	37.76	37.76	41.28	41.40	320.00	Pass
HE40	MCS0	2	091	6405	Full	37.76	37.76	41.40	41.40	320.00	Pass
HE80	MCS0	2	007	5985	Full	76.84	76.72	82.08	81.60	320.00	Pass
HE80	MCS0	2	055	6225	Full	76.84	76.84	82.08	82.08	320.00	Pass
HE80	MCS0	2	087	6385	Full	76.84	76.72	81.84	81.84	320.00	Pass
HE160	MCS0	2	015	6025	Full	155.60	155.84	165.12	165.12	320.00	Pass
HE160	MCS0	2	047	6185	Full	155.84	155.60	165.60	166.56	320.00	Pass
HE160	MCS0	2	079	6345	Full	155.60	155.84	166.56	164.64	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 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
HE20	MCS0	2	001	5955	Full	15.10	15.50	18.31	1.59		19.90	30.00	Pass
HE20	MCS0	2	001	5955	26/0	7.10	6.70	9.91	1.59		11.50	30.00	Pass
HE20	MCS0	2	001	5955	52/37	9.90	9.40	12.67	1.59		14.26	30.00	Pass
HE20	MCS0	2	001	5955	106/53	13.00	13.00	16.01	1.59		17.60	30.00	Pass
HE20	MCS0	2	049	6195	Full	15.20	14.90	18.06	1.59		19.65	30.00	Pass
HE20	MCS0	2	049	6195	26/4	7.50	7.20	10.36	1.59		11.95	30.00	Pass
HE20	MCS0	2	049	6195	52/38	10.10	9.30	12.73	1.59		14.32	30.00	Pass
HE20	MCS0	2	049	6195	106/53	12.90	11.90	15.44	1.59		17.03	30.00	Pass
HE20	MCS0	2	093	6415	Full	15.40	14.20	17.85	1.59		19.44	30.00	Pass
HE20	MCS0	2	093	6415	26/8	6.50	5.80	9.17	1.59		10.76	30.00	Pass
HE20	MCS0	2	093	6415	52/40	10.10	8.70	12.47	1.59		14.06	30.00	Pass
HE20	MCS0	2	093	6415	106/54	13.50	12.00	15.82	1.59		17.41	30.00	Pass
HE40	MCS0	2	003	5965	Full	15.10	15.10	18.11	1.59		19.70	30.00	Pass
HE40	MCS0	2	003	5965	242/61	13.70	13.50	16.61	1.59		18.20	30.00	Pass
HE40	MCS0	2	051	6205	Full	15.30	14.90	18.11	1.59		19.70	30.00	Pass
HE40	MCS0	2	051	6205	242/61	13.90	13.00	16.48	1.59		18.07	30.00	Pass
HE40	MCS0	2	091	6405	Full	15.10	14.10	17.64	1.59		19.23	30.00	Pass
HE40	MCS0	2	091	6405	242/62	14.30	13.00	16.71	1.59		18.30	30.00	Pass
HE80	MCS0	2	007	5985	Full	15.10	15.40	18.26	1.59		19.85	30.00	Pass
HE80	MCS0	2	007	5985	484/65	14.50	14.20	17.36	1.59		18.95	30.00	Pass
HE80	MCS0	2	055	6225	Full	15.00	14.50	17.77	1.59		19.36	30.00	Pass
HE80	MCS0	2	055	6225	484/65	14.50	13.40	17.00	1.59		18.59	30.00	Pass
HE80	MCS0	2	087	6385	Full	15.60	14.60	18.14	1.59		19.73	30.00	Pass
HE80	MCS0	2	087	6385	484/66	14.70	13.70	17.24	1.59		18.83	30.00	Pass
HE160	MCS0	2	015	6025	Full	15.00	15.30	18.16	1.59		19.75	30.00	Pass
HE160	MCS0	2	015	6025	996/67	14.30	14.20	17.26	1.59		18.85	30.00	Pass
HE160	MCS0	2	047	6185	Full	15.40	15.20	18.31	1.59		19.90	30.00	Pass
HE160	MCS0	2	047	6185	996/67	15.00	14.50	17.77	1.59		19.36	30.00	Pass
HE160	MCS0	2	079	6345	Full	15.30	14.50	17.93	1.59		19.52	30.00	Pass
HE160	MCS0	2	079	6345	996/S67	14.20	13.50	16.87	1.59		18.46	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 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
HE20	MCS0	2	001	5955	Full	0.66	0.66			7.40	4.55		11.95	17.00	Pass
HE20	MCS0	2	001	5955	26/0	0.64	0.64			7.05	4.55		11.60	17.00	Pass
HE20	MCS0	2	001	5955	52/37	0.64	0.64			7.05	4.55		11.60	17.00	Pass
HE20	MCS0	2	001	5955	106/53	0.67	0.67			7.17	4.55		11.72	17.00	Pass
HE20	MCS0	2	049	6195	Full	0.66	0.66			7.05	4.55		11.60	17.00	Pass
HE20	MCS0	2	049	6195	26/4	0.64	0.64			6.70	4.55		11.25	17.00	Pass
HE20	MCS0	2	049	6195	52/38	0.64	0.64			6.96	4.55		11.51	17.00	Pass
HE20	MCS0	2	049	6195	106/53	0.67	0.67			6.88	4.55		11.43	17.00	Pass
HE20	MCS0	2	093	6415	Full	0.66	0.66			7.11	4.55		11.66	17.00	Pass
HE20	MCS0	2	093	6415	26/8	0.64	0.64			6.89	4.55		11.44	17.00	Pass
HE20	MCS0	2	093	6415	52/40	0.64	0.64			6.93	4.55		11.48	17.00	Pass
HE20	MCS0	2	093	6415	106/54	0.67	0.67			6.90	4.55		11.45	17.00	Pass
HE40	MCS0	2	003	5965	Full	0.66	0.68			4.60	4.55		9.15	17.00	Pass
HE40	MCS0	2	003	5965	242/61	0.65	0.65			4.39	4.55		8.94	17.00	Pass
HE40	MCS0	2	051	6205	Full	0.66	0.68			4.24	4.55		8.79	17.00	Pass
HE40	MCS0	2	051	6205	242/61	0.65	0.65			3.81	4.55		8.36	17.00	Pass
HE40	MCS0	2	091	6405	Full	0.66	0.68			4.34	4.55		8.89	17.00	Pass
HE40	MCS0	2	091	6405	242/62	0.65	0.65			4.22	4.55		8.77	17.00	Pass
HE80	MCS0	2	007	5985	Full	0.69	0.65			2.54	4.55		7.09	17.00	Pass
HE80	MCS0	2	007	5985	484/65	0.69	0.65			2.13	4.55		6.68	17.00	Pass
HE80	MCS0	2	055	6225	Full	0.69	0.65			1.98	4.55		6.53	17.00	Pass
HE80	MCS0	2	055	6225	484/65	0.69	0.65			1.69	4.55		6.24	17.00	Pass
HE80	MCS0	2	087	6385	Full	0.69	0.65			2.38	4.55		6.93	17.00	Pass
HE80	MCS0	2	087	6385	484/66	0.69	0.65			2.02	4.55		6.57	17.00	Pass
HE160	MCS0	2	015	6025	Full	0.65	0.65			-0.67	4.55		3.88	17.00	Pass
HE160	MCS0	2	015	6025	996/67	0.65	0.65			-1.11	4.55		3.44	17.00	Pass
HE160	MCS0	2	047	6185	Full	0.65	0.65			-0.42	4.55		4.13	17.00	Pass
HE160	MCS0	2	047	6185	996/67	0.65	0.65			-0.65	4.55		3.90	17.00	Pass
HE160	MCS0	2	079	6345	Full	0.65	0.65			-1.01	4.55		3.55	17.00	Pass
HE160	MCS0	2	079	6345	996/S67	0.65	0.65			-1.22	4.55		3.33	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 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	117	6535	Full	18.88	18.83	21.06	21.18	320.00	Pass
HE20	MCS0	2	149	6695	Full	18.83	18.83	21.12	21.00	320.00	Pass
HE20	MCS0	2	181	6855	Full	18.88	18.83	21.00	20.94	320.00	Pass
HE40	MCS0	2	123	6565	Full	37.76	37.76	41.16	41.52	320.00	Pass
HE40	MCS0	2	147	6685	Full	37.76	37.86	41.40	41.16	320.00	Pass
HE40	MCS0	2	179	6845	Full	37.76	37.86	41.40	41.28	320.00	Pass
HE80	MCS0	2	135	6625	Full	76.84	76.60	82.32	82.32	320.00	Pass
HE80	MCS0	2	151	6705	Full	76.84	76.84	82.08	82.32	320.00	Pass
HE80	MCS0	2	167	6785	Full	76.84	76.96	81.84	82.56	320.00	Pass
HE160	MCS0	2	143	6665	Full	156.32	156.08	165.12	165.12	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 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
HE20	MCS0	2	117	6535	Full	15.70	14.90	18.33	1.46		19.79	30.00	Pass
HE20	MCS0	2	117	6535	26/0	7.00	6.90	9.96	1.46		11.42	30.00	Pass
HE20	MCS0	2	117	6535	52/37	9.60	9.20	12.41	1.46		13.87	30.00	Pass
HE20	MCS0	2	117	6535	106/53	13.50	12.40	16.00	1.46		17.46	30.00	Pass
HE20	MCS0	2	149	6695	Full	15.80	15.60	18.71	1.46		20.17	30.00	Pass
HE20	MCS0	2	149	6695	26/4	8.70	8.00	11.37	1.46		12.83	30.00	Pass
HE20	MCS0	2	149	6695	52/38	10.70	9.90	13.33	1.46		14.79	30.00	Pass
HE20	MCS0	2	149	6695	106/53	13.40	12.80	16.12	1.46		17.58	30.00	Pass
HE20	MCS0	2	181	6855	Full	15.50	15.70	18.61	1.46		20.07	30.00	Pass
HE20	MCS0	2	181	6855	26/8	6.60	6.90	9.76	1.46		11.22	30.00	Pass
HE20	MCS0	2	181	6855	52/40	9.80	9.80	12.81	1.46		14.27	30.00	Pass
HE20	MCS0	2	181	6855	106/54	13.40	13.40	16.41	1.46		17.87	30.00	Pass
HE40	MCS0	2	123	6565	Full	15.70	15.30	18.51	1.46		19.97	30.00	Pass
HE40	MCS0	2	123	6565	242/61	14.70	13.80	17.28	1.46		18.74	30.00	Pass
HE40	MCS0	2	147	6685	Full	15.70	15.50	18.61	1.46		20.07	30.00	Pass
HE40	MCS0	2	147	6685	242/61	14.40	13.80	17.12	1.46		18.58	30.00	Pass
HE40	MCS0	2	179	6845	Full	16.00	15.20	18.63	1.46		20.09	30.00	Pass
HE40	MCS0	2	179	6845	242/62	14.60	14.10	17.37	1.46		18.83	30.00	Pass
HE80	MCS0	2	135	6625	Full	15.60	15.10	18.37	1.46		19.83	30.00	Pass
HE80	MCS0	2	135	6625	484/65	15.20	14.20	17.74	1.46		19.20	30.00	Pass
HE80	MCS0	2	151	6705	Full	15.50	15.40	18.46	1.46		19.92	30.00	Pass
HE80	MCS0	2	151	6705	484/65	14.40	13.80	17.12	1.46		18.58	30.00	Pass
HE80	MCS0	2	167	6785	Full	15.90	15.70	18.81	1.46		20.27	30.00	Pass
HE80	MCS0	2	167	6785	484/66	15.10	14.60	17.87	1.46		19.33	30.00	Pass
HE160	MCS0	2	143	6665	Full	15.80	15.80	18.81	1.46		20.27	30.00	Pass
HE160	MCS0	2	143	6665	996/67	15.70	14.50	18.15	1.46		19.61	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 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
HE20	MCS0	2	117	6535	Full	0.66	0.66			7.31	4.37		11.68	17.00	Pass
HE20	MCS0	2	117	6535	26/0	0.64	0.64			6.90	4.37		11.26	17.00	Pass
HE20	MCS0	2	117	6535	52/37	0.64	0.64			6.84	4.37		11.21	17.00	Pass
HE20	MCS0	2	117	6535	106/53	0.67	0.67			6.98	4.37		11.35	17.00	Pass
HE20	MCS0	2	149	6695	Full	0.66	0.66			7.62	4.37		11.99	17.00	Pass
HE20	MCS0	2	149	6695	26/4	0.64	0.64			7.34	4.37		11.71	17.00	Pass
HE20	MCS0	2	149	6695	52/38	0.64	0.64			7.55	4.37		11.91	17.00	Pass
HE20	MCS0	2	149	6695	106/53	0.67	0.67			7.26	4.37		11.63	17.00	Pass
HE20	MCS0	2	181	6855	Full	0.66	0.66			7.36	4.37		11.72	17.00	Pass
HE20	MCS0	2	181	6855	26/8	0.64	0.64			6.93	4.37		11.29	17.00	Pass
HE20	MCS0	2	181	6855	52/40	0.64	0.64			6.89	4.37		11.26	17.00	Pass
HE20	MCS0	2	181	6855	106/54	0.67	0.67			7.31	4.37		11.67	17.00	Pass
HE40	MCS0	2	123	6565	Full	0.66	0.68			5.21	4.37		9.58	17.00	Pass
HE40	MCS0	2	123	6565	242/61	0.65	0.65			4.88	4.37		9.24	17.00	Pass
HE40	MCS0	2	147	6685	Full	0.66	0.68			5.00	4.37		9.36	17.00	Pass
HE40	MCS0	2	147	6685	242/61	0.65	0.65			4.60	4.37		8.97	17.00	Pass
HE40	MCS0	2	179	6845	Full	0.66	0.68			4.80	4.37		9.17	17.00	Pass
HE40	MCS0	2	179	6845	242/62	0.65	0.65			4.60	4.37		8.97	17.00	Pass
HE80	MCS0	2	135	6625	Full	0.69	0.65			2.62	4.37		6.98	17.00	Pass
HE80	MCS0	2	135	6625	484/65	0.69	0.65			2.27	4.37		6.63	17.00	Pass
HE80	MCS0	2	151	6705	Full	0.69	0.65			2.27	4.37		6.64	17.00	Pass
HE80	MCS0	2	151	6705	484/65	0.69	0.65			1.91	4.37		6.27	17.00	Pass
HE80	MCS0	2	167	6785	Full	0.69	0.65			2.79	4.37		7.16	17.00	Pass
HE80	MCS0	2	167	6785	484/66	0.69	0.65			2.32	4.37		6.68	17.00	Pass
HE160	MCS0	2	143	6665	Full	0.65	0.65			0.03	4.37		4.39	17.00	Pass
HE160	MCS0	2	143	6665	996/67	0.65	0.65			-0.25	4.37		4.12	17.00	Pass

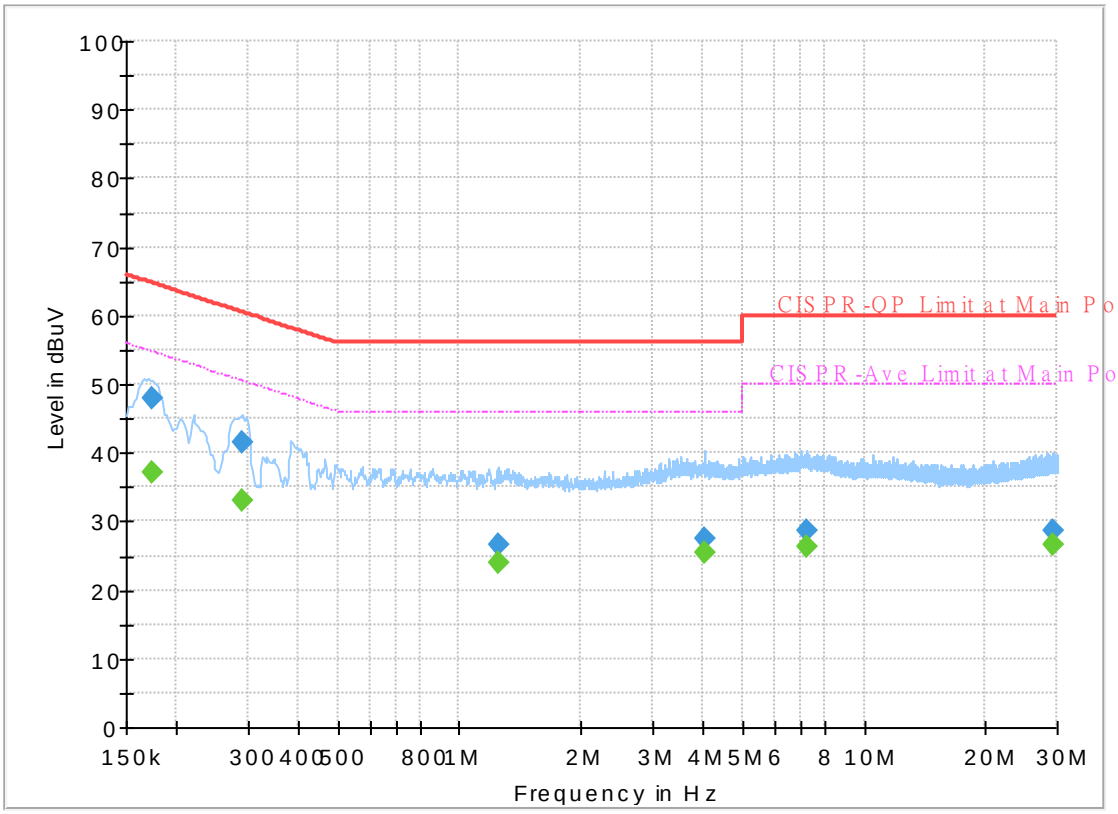
Appendix B. AC Conducted Emission Test Results

Test Engineer :	LI YAN-XUN	**Temperature :**	23~26℃
		Relative Humidity :	45~55%

EUT Information

Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



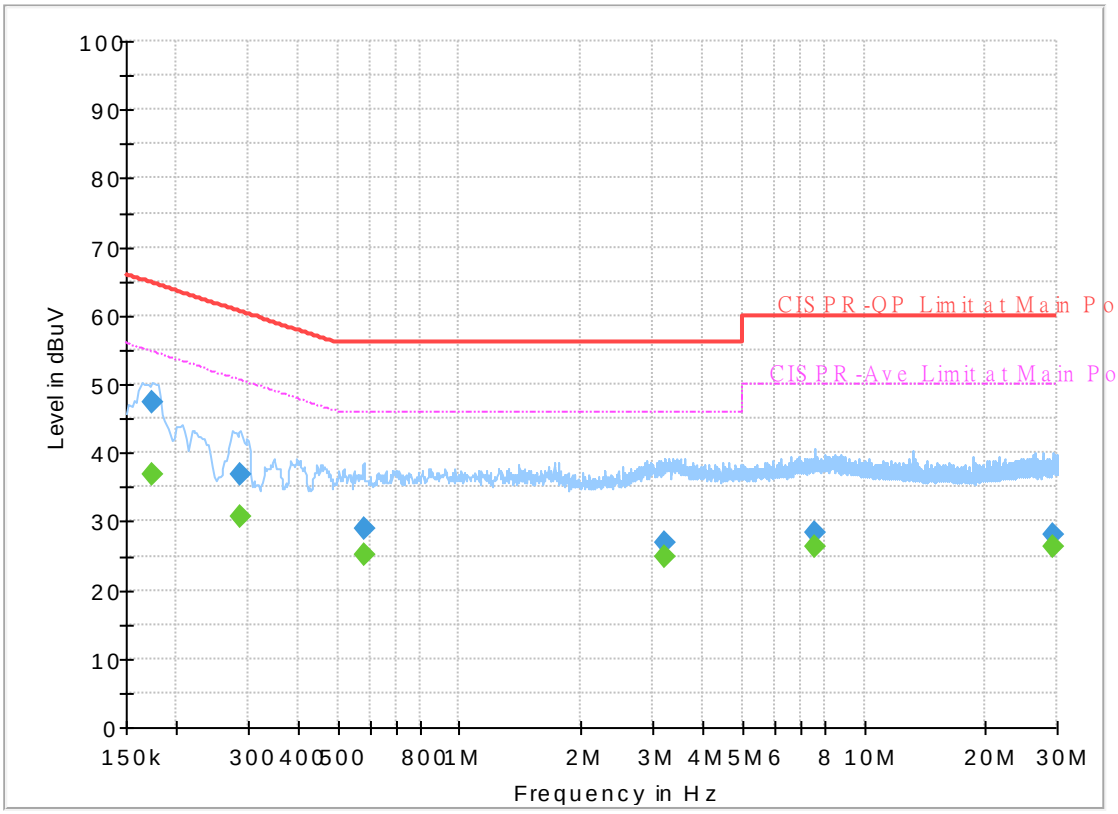
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.174750	---	37.24	54.73	17.49	L1	OFF	19.8
0.174750	48.08	---	64.73	16.65	L1	OFF	19.8
0.291750	---	32.97	50.47	17.50	L1	OFF	19.9
0.291750	41.44	---	60.47	19.03	L1	OFF	19.9
1.243500	---	23.98	46.00	22.02	L1	OFF	19.9
1.243500	26.62	---	56.00	29.38	L1	OFF	19.9
4.038000	---	25.51	46.00	20.49	L1	OFF	20.0
4.038000	27.63	---	56.00	28.37	L1	OFF	20.0
7.203750	---	26.44	50.00	23.56	L1	OFF	20.1
7.203750	28.69	---	60.00	31.31	L1	OFF	20.1
29.400000	---	26.66	50.00	23.34	L1	OFF	20.6
29.400000	28.59	---	60.00	31.41	L1	OFF	20.6

EUT Information

Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.174750	---	36.98	54.73	17.75	N	OFF	19.8
0.174750	47.25	---	64.73	17.48	N	OFF	19.8
0.287250	---	30.63	50.60	19.97	N	OFF	19.9
0.287250	36.86	---	60.60	23.74	N	OFF	19.9
0.579750	---	25.16	46.00	20.84	N	OFF	19.9
0.579750	28.98	---	56.00	27.02	N	OFF	19.9
3.221250	---	24.87	46.00	21.13	N	OFF	19.9
3.221250	26.82	---	56.00	29.18	N	OFF	19.9
7.550250	---	26.30	50.00	23.70	N	OFF	20.1
7.550250	28.47	---	60.00	31.53	N	OFF	20.1
29.442750	---	26.33	50.00	23.67	N	OFF	20.8
29.442750	28.04	---	60.00	31.96	N	OFF	20.8

Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Li, Troye Hsieh, Sam Chou and Yuan Lee	Temperature :	20.1~21.8°C
		Relative Humidity :	55.8~66.6%

Band 5 - 5925~6425MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
6+7		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 01 5955MHz		5919.92	53.93	-34.27	88.2	42	34.3	11.28	33.65	111	104	P	H
		5895.7	43.99	-24.21	68.2	32.06	34.28	11.3	33.65	111	104	A	H
	*	5955	112.27	-	-	100.39	34.29	11.25	33.66	111	104	P	H
	*	5955	104.41	-	-	92.53	34.29	11.25	33.66	111	104	A	H
		5909.28	53.41	-34.79	88.2	41.47	34.3	11.29	33.65	112	112	P	V
		5924.54	43.64	-24.56	68.2	31.71	34.3	11.28	33.65	112	112	A	V
	*	5955	110.53	-	-	98.65	34.29	11.25	33.66	112	112	P	V
	*	5955	102.53	-	-	90.65	34.29	11.25	33.66	112	112	A	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. 6+7	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	45.33	-28.67	74	50.09	38.82	18.77	62.35	-	-	P	H
		17865	47.86	-26.14	74	39.31	41.38	23.54	56.37	-	-	P	H
		11910	45.43	-28.57	74	50.19	38.82	18.77	62.35	-	-	P	V
		17865	47.78	-26.22	74	39.23	41.38	23.54	56.37	-	-	P	V

WIFI Ant. 6+7	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)
		12390	45.75	-28.25	74	50.57	39	19.27	63.09	-	-	P	H
		18585	35.66	-38.34	74	39.77	37.67	13.87	55.65	-	-	P	H
802.11a CH 49 6195MHz		12390	45.21	-28.79	74	50.03	39	19.27	63.09	-	-	P	V
		18585	33.4	-40.6	74	37.51	37.67	13.87	55.65	-	-	P	V

WIFI Ant. 6+7	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	45.8	-42.4	88.2	49.09	39.66	19.8	62.75	-	-	P	H
		19245	35.63	-38.37	74	38.63	37.9	14.4	55.3	-	-	P	H
		12830	45.77	-42.43	88.2	49.06	39.66	19.8	62.75	-	-	P	V
		19245	35.58	-38.42	74	38.58	37.9	14.4	55.3	-	-	P	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. 6+7	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)
		5915.16	56.31	-31.89	88.2	43.1	34.3	12.56	33.65	100	105	P	H
		5924.96	48.22	-19.98	68.2	35.01	34.3	12.56	33.65	100	105	A	H
	*	5955	113.09	-	-	99.93	34.29	12.53	33.66	100	105	P	H
	*	5955	105.41	-	-	92.25	34.29	12.53	33.66	100	105	A	H
802.11ax													
HE20 Full													
CH 01		5915.3	55.75	-32.45	88.2	42.54	34.3	12.56	33.65	100	108	P	V
5955MHz		5923.56	46.87	-21.33	68.2	33.66	34.3	12.56	33.65	100	108	A	V
	*	5955	111.69	-	-	98.53	34.29	12.53	33.66	100	108	P	V
	*	5955	103.03	-	-	89.87	34.29	12.53	33.66	100	108	A	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. 6+7	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)
		11910	47.28	-26.72	74	52.04	38.82	18.17	62.35	-	-	P	H
		17865	49.67	-24.33	74	41.12	41.38	22.91	56.37	-	-	P	H
		17865	40.77	-13.23	54	32.22	41.38	22.91	56.37	-	-	P	H
802.11ax													
HE20 Full													
CH 01		11910	47.7	-26.3	74	52.46	38.82	18.17	62.35	-	-	P	V
5955MHz		17865	49.74	-24.26	74	41.19	41.38	22.91	56.37	-	-	P	V
		17865	40.8	-13.2	54	32.25	41.38	22.91	56.37	-	-	P	V

WIFI Ant. 6+7	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)
		12390	45.89	-28.11	74	50.71	39	19.27	63.09	-	-	P	H
		18585	36.1	-37.9	74	40.21	37.67	13.87	55.65	-	-	P	H
802.11ax													
HE20 Full													
CH 49		12390	45.8	-28.2	74	50.62	39	19.27	63.09	-	-	P	V
6195MHz		18585	35.49	-38.51	74	39.6	37.67	13.87	55.65	-	-	P	V

WIFI Ant. 6+7	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)
		12830	45.61	-42.59	88.2	48.9	39.66	19.8	62.75	-	-	P	H
		19245	35.72	-38.28	74	38.72	37.9	14.4	55.3	-	-	P	H
802.11ax													
HE20 Full													
CH 93		12830	46.11	-42.09	88.2	49.4	39.66	19.8	62.75	-	-	P	V
6415MHz		19245	35.7	-38.3	74	38.7	37.9	14.4	55.3	-	-	P	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 Partial 106 (Band Edge @ 3m)

WIFI Ant. 6+7	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)
		5924.96	76.68	-11.52	88.2	64.75	34.3	11.28	33.65	120	100	P	H
		5924.96	55.43	-12.77	68.2	43.5	34.3	11.28	33.65	120	100	A	H
	*	5955	114.69	-	-	102.81	34.29	11.25	33.66	120	100	P	H
802.11ax	*	5955	105.97	-	-	94.09	34.29	11.25	33.66	120	100	A	H
HE20													
Partial													
106/53		5922.72	77.45	-10.75	88.2	65.52	34.3	11.28	33.65	318	110	P	V
CH 01		5920.9	55.44	-12.76	68.2	43.51	34.3	11.28	33.65	318	110	A	V
5955MHz	*	5955	112.71	-	-	100.83	34.29	11.25	33.66	318	110	P	V
	*	5955	104.28	-	-	92.4	34.29	11.25	33.66	318	110	A	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. 6+7	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)
		5925	57.66	-30.54	88.2	45.73	34.3	11.28	33.65	103	100	P	H
		5925	48.13	-20.07	68.2	36.2	34.3	11.28	33.65	103	100	A	H
	*	5965	110.96	-	-	99.1	34.27	11.25	33.66	103	100	P	H
	*	5965	101.79	-	-	89.93	34.27	11.25	33.66	103	100	A	H
802.11ax													
HE40 Full													
CH 03		5924.76	57.69	-30.51	88.2	45.76	34.3	11.28	33.65	100	112	P	V
5965MHz		5924.6	47.23	-20.97	68.2	35.3	34.3	11.28	33.65	100	112	A	V
	*	5965	108.57	-	-	96.71	34.27	11.25	33.66	100	112	P	V
	*	5965	100.16	-	-	88.3	34.27	11.25	33.66	100	112	A	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. 6+7	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)
		11930	45.41	-28.59	74	50.17	38.86	18.78	62.4	-	-	P	H
		17895	47.1	-26.9	74	38.13	41.74	23.55	56.32	-	-	P	H
802.11ax													
HE40 Full													
CH 03		11930	44.88	-29.12	74	49.64	38.86	18.78	62.4	-	-	P	V
5965MHz		17895	46.44	-27.56	74	37.47	41.74	23.55	56.32	-	-	P	V

WIFI Ant. 6+7	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)
		12410	44.38	-29.62	74	49.2	39	19.29	63.11	-	-	P	H
		18615	34.33	-39.67	74	38.33	37.73	13.9	55.63	-	-	P	H
802.11ax													
HE40 Full													
CH 51		12410	44.99	-29.01	74	49.81	39	19.29	63.11	-	-	P	V
6205MHz		18615	35.14	-38.86	74	39.14	37.73	13.9	55.63	-	-	P	V

WIFI Ant. 6+7	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)
		12810	45.26	-42.94	88.2	48.64	39.62	19.78	62.78	-	-	P	H
		19215	36.39	-37.61	74	39.4	37.93	14.37	55.31	-	-	P	H
802.11ax													
HE40 Full													
CH 91		12810	45.49	-42.71	88.2	48.87	39.62	19.78	62.78	-	-	P	V
6405MHz		19215	37.18	-36.82	74	40.19	37.93	14.37	55.31	-	-	P	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 HE40 Partial 242 (Band Edge @ 3m)

WIFI Ant. 6+7	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)
		5920.68	74.65	-13.55	88.2	62.72	34.3	11.28	33.65	106	101	P	H
		5920.68	55.72	-12.48	68.2	43.79	34.3	11.28	33.65	106	101	A	H
	*	5965	112.18	-	-	100.32	34.27	11.25	33.66	106	101	P	H
802.11ax	*	5965	102.25	-	-	90.39	34.27	11.25	33.66	106	101	A	H
HE40													
Partial													
242/61		5916.52	70.1	-18.1	88.2	58.17	34.3	11.28	33.65	271	114	P	V
CH 03		5916.44	52.08	-16.12	68.2	40.15	34.3	11.28	33.65	271	114	A	V
5965MHz	*	5965	109	-	-	97.14	34.27	11.25	33.66	271	114	P	V
	*	5965	100.61	-	-	88.75	34.27	11.25	33.66	271	114	A	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. 6+7	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)
		5915.08	67	-21.2	88.2	53.79	34.3	12.56	33.65	100	105	P	H
		5925	57.59	-10.61	68.2	44.38	34.3	12.56	33.65	100	105	A	H
	*	5985	109.46	-	-	96.38	34.23	12.51	33.66	100	105	P	H
	*	5985	101.29	-	-	88.21	34.23	12.51	33.66	100	105	A	H
802.11ax													
HE80 Full													
CH 07		5924.68	65.62	-22.58	88.2	52.41	34.3	12.56	33.65	126	117	P	V
5985MHz		5924.04	56.18	-12.02	68.2	42.97	34.3	12.56	33.65	126	117	A	V
	*	5985	108.91	-	-	95.83	34.23	12.51	33.66	126	117	P	V
	*	5985	98.52	-	-	85.44	34.23	12.51	33.66	126	117	A	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)

WIFI Ant. 6+7	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)
		11940	47.34	-26.66	74	52.12	38.88	18.18	62.43	-	-	P	H
		17955	50.97	-23.03	74	41.46	42.13	22.95	56.2	-	-	P	H
		17955	41.12	-12.88	54	31.61	42.13	22.95	56.2	-	-	P	H
802.11ax													
HE80 Full													
CH 07		11970	46.85	-27.15	74	51.63	38.94	18.2	62.51	-	-	P	V
5985MHz		17955	50.83	-23.17	74	41.32	42.13	22.95	56.2	-	-	P	V
		17955	40.94	-13.06	54	31.43	42.13	22.95	56.2	-	-	P	V

WIFI Ant. 6+7	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)
		12450	44.7	-29.3	74	49.52	39	19.35	63.17	-	-	P	H
		18675	34.74	-39.26	74	38.55	37.85	13.94	55.6	-	-	P	H
802.11ax													
HE80 Full													
CH 55		12450	45.9	-28.1	74	50.72	39	19.35	63.17	-	-	P	V
6225MHz		18675	36	-38	74	39.81	37.85	13.94	55.6	-	-	P	V

WIFI Ant. 6+7	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)
		12770	45.35	-42.85	88.2	48.91	39.54	19.74	62.84	-	-	P	H
		19155	35.27	-38.73	74	38.31	37.98	14.32	55.34	-	-	P	H
802.11ax													
HE80 Full													
CH 87		12770	45.86	-42.34	88.2	49.42	39.54	19.74	62.84	-	-	P	V
6385MHz		19155	35.7	-38.3	74	38.74	37.98	14.32	55.34	-	-	P	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 HE80 Partial 484 (Band Edge @ 3m)

WIFI Ant. 6+7	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)
		5920.84	77.16	-11.04	88.2	65.23	34.3	11.28	33.65	100	98	P	H
		5920.68	58.28	-9.92	68.2	46.35	34.3	11.28	33.65	100	98	A	H
	*	5985	108.45	-	-	96.65	34.23	11.23	33.66	100	98	P	H
802.11ax	*	5985	99.12	-	-	87.32	34.23	11.23	33.66	100	98	A	H
HE80													
Partial													
484/65		5923.24	75.87	-12.33	88.2	63.94	34.3	11.28	33.65	331	108	P	V
CH 07		5923.24	57.08	-11.12	68.2	45.15	34.3	11.28	33.65	331	108	A	V
5985MHz	*	5985	107.23	-	-	95.43	34.23	11.23	33.66	331	108	P	V
	*	5985	97.82	-	-	86.02	34.23	11.23	33.66	331	108	A	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. 6+7	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)
		5887.4	66.08	-22.12	88.2	54.18	34.25	11.3	33.65	102	99	P	H
		5907.56	58.55	-9.65	68.2	46.61	34.3	11.29	33.65	102	99	A	H
	*	6025	106.17	-	-	94.38	34.2	11.27	33.68	102	99	P	H
	*	6025	97.53	-	-	85.74	34.2	11.27	33.68	102	99	A	H
802.11ax													
HE160 Full													
CH 15		5909.16	65.51	-22.69	88.2	53.57	34.3	11.29	33.65	113	107	P	V
6025MHz		5912.68	57.14	-11.06	68.2	45.2	34.3	11.29	33.65	113	107	A	V
	*	6025	102.59	-	-	90.8	34.2	11.27	33.68	113	107	P	V
	*	6025	93.6	-	-	81.81	34.2	11.27	33.68	113	107	A	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)

WIFI Ant. 6+7	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)
		12050	44.83	-29.17	74	49.57	39.05	18.86	62.65	-	-	P	H
		18075	34.07	-39.93	74	38.81	37.73	13.49	55.96	-	-	P	H
802.11ax													
HE160 Full													
CH 15		12050	44.88	-29.12	74	49.62	39.05	18.86	62.65	-	-	P	V
6025MHz		18075	34.06	-39.94	74	38.8	37.73	13.49	55.96	-	-	P	V

WIFI Ant. 6+7	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)
		12370	48.1	-25.9	74	52.91	39	19.25	63.06	-	-	P	H
		18555	35.46	-38.54	74	39.67	37.61	13.85	55.67	-	-	P	H
802.11ax													
HE160 Full													
CH 47		12370	47.7	-26.3	74	52.51	39	19.25	63.06	-	-	P	V
6185MHz		18555	34.09	-39.91	74	38.3	37.61	13.85	55.67	-	-	P	V

WIFI Ant. 6+7	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)
		12690	48.45	-25.55	74	52.4	39.38	19.63	62.96	-	-	P	H
		19035	36.09	-37.91	74	39.19	38.07	14.22	55.39	-	-	P	H
802.11ax													
HE160 Full													
CH 79		12690	47.38	-26.62	74	51.33	39.38	19.63	62.96	-	-	P	V
6345MHz		19035	35.19	-38.81	74	38.29	38.07	14.22	55.39	-	-	P	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 HE160 Partial 996 (Band Edge @ 3m)

WIFI Ant. 6+7	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)
		5894.44	77.58	-10.62	88.2	65.65	34.28	11.3	33.65	107	98	P	H
		5900.2	62.78	-5.42	68.2	50.84	34.3	11.29	33.65	107	98	A	H
	*	6025	106.18	-	-	94.39	34.2	11.27	33.68	107	98	P	H
802.11ax	*	6025	96.32	-	-	84.53	34.2	11.27	33.68	107	98	A	H
HE160													
Partial													
996/67		5893.8	78.23	-9.97	88.2	66.3	34.28	11.3	33.65	103	112	P	V
CH 15		5898.92	61.82	-6.38	68.2	49.87	34.3	11.3	33.65	103	112	A	V
6025MHz	*	6025	104.19	-	-	92.4	34.2	11.27	33.68	103	112	P	V
	*	6025	94.45	-	-	82.66	34.2	11.27	33.68	103	112	A	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.	
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		13070	46.01	-42.19	88.2	48.69	39.76	20.07	62.51	-	-	P	H
		19605	36.32	-37.68	74	38.9	37.87	14.71	55.16	-	-	P	H
802.11a													
CH 117		13070	46.09	-42.11	88.2	48.77	39.76	20.07	62.51	-	-	P	V
6535MHz		19605	36.15	-37.85	74	38.73	37.87	14.71	55.16	-	-	P	V

WIFI Ant. 6+7	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)
		13390	47.29	-26.71	74	49.34	40.08	20.36	62.49	-	-	P	H
		20085	35.06	-38.94	74	37.48	37.47	15.11	55	-	-	P	H
802.11a CH 149 6695MHz													
		13390	46.81	-27.19	74	48.86	40.08	20.36	62.49	-	-	P	V
		20085	35.11	-38.89	74	37.53	37.47	15.11	55	-	-	P	V

WIFI Ant. 6+7	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	48.95	-39.25	88.2	51.02	40.12	19.8	62.83	-	-	P	H
		20565	34.03	-39.97	74	35.93	37.63	25	54.99	-	-	P	H
		13710	49.73	-38.47	88.2	51.8	40.12	19.8	62.83	-	-	P	V
		20565	35.45	-38.55	74	37.35	37.63	25	54.99	-	-	P	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 7 - 6525~6875MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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)
		13070	45.82	-42.38	88.2	48.5	39.76	20.07	62.51	-	-	P	H
		19605	35.22	-38.78	74	37.8	37.87	14.71	55.16	-	-	P	H
802.11ax													
HE20 Full													
CH 117		13070	46.91	-41.29	88.2	49.59	39.76	20.07	62.51	-	-	P	V
6535MHz		19605	35.27	-38.73	74	37.85	37.87	14.71	55.16	-	-	P	V

WIFI Ant. 6+7	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)
		13390	45.55	-28.45	74	47.62	40.07	20.35	62.49	-	-	P	H
		20085	35.83	-38.17	74	38.25	37.47	15.11	55	-	-	P	H
802.11ax													
HE20 Full													
CH 149		13390	45.74	-28.26	74	47.81	40.07	20.35	62.49	-	-	P	V
6695MHz		20085	35.12	-38.88	74	37.54	37.47	15.11	55	-	-	P	V

WIFI Ant. 6+7	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)
		13710	49.43	-38.77	88.2	51.5	40.12	20.64	62.83	-	-	P	H
		20565	34.34	-39.66	74	73.87	0	15.46	54.99	-	-	P	H
i802.11ax													
HE20 Full													
CH 181		13710	48.74	-39.46	88.2	50.81	40.12	20.64	62.83	-	-	P	V
6855MHz		20565	35.44	-38.56	74	37.34	37.63	15.46	54.99	-	-	P	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 7 - 6525~6875MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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)
		13130	45.67	-42.53	88.2	48.35	39.7	20.12	62.5	-	-	P	H
		19695	34.66	-39.34	74	36.98	38.01	14.79	55.12	-	-	P	H
802.11ax													
HE40 Full													
CH 123		13130	45.44	-42.76	88.2	48.12	39.7	20.12	62.5	-	-	P	V
6565MHz		19695	35.88	-38.12	74	38.2	38.01	14.79	55.12	-	-	P	V

WIFI Ant. 6+7	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)
		13370	45.45	-28.55	74	47.59	40.01	20.34	62.49	-	-	P	H
		20055	34.05	-39.95	74	36.58	37.38	15.09	55	-	-	P	H
802.11ax													
HE40 Full													
CH 147		13370	44.53	-29.47	74	46.67	40.01	20.34	62.49	-	-	P	V
6685MHz		20055	35.04	-38.96	74	37.57	37.38	15.09	55	-	-	P	V

WIFI Ant. 6+7	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)
		13690	48.17	-40.03	88.2	50.28	40.08	20.61	62.8	-	-	P	H
		20535	34.82	-39.18	74	36.76	37.61	15.44	54.99	-	-	P	H
802.11ax													
HE40 Full													
CH 179		13690	48.76	-39.44	88.2	50.87	40.08	20.61	62.8	-	-	P	V
6845MHz		20535	34.94	-39.06	74	36.88	37.61	15.44	54.99	-	-	P	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 7 - 6525~6875MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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)
		13250	44.67	-29.33	74	47.18	39.75	20.23	62.49	-	-	P	H
		19875	35.05	-38.95	74	37.51	37.65	14.94	55.05	-	-	P	H
802.11ax													
HE80 Full													
CH 135		13250	44.58	-29.42	74	47.09	39.75	20.23	62.49	-	-	P	V
6625MHz		19875	35.73	-38.27	74	38.19	37.65	14.94	55.05	-	-	P	V

WIFI Ant. 6+7	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)
		13410	44.43	-43.77	88.2	46.44	40.11	20.37	62.49	-	-	P	H
		20115	35.02	-38.98	74	37.32	37.57	15.13	55	-	-	P	H
802.11ax													
HE80 Full													
CH 151		13410	44.16	-44.04	88.2	46.17	40.11	20.37	62.49	-	-	P	V
6705MHz		20115	34.72	-39.28	74	37.02	37.57	15.13	55	-	-	P	V

WIFI Ant. 6+7	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)
		13570	50.44	-37.76	88.2	52.42	40.1	20.52	62.6	-	-	P	H
		20355	34.78	-39.22	74	36.64	37.83	15.31	55	-	-	P	H
802.11ax													
HE80 Full													
CH 167		13570	52.55	-35.65	88.2	54.53	40.1	20.52	62.6	-	-	P	V
6785MHz		20355	35.63	-38.37	74	37.49	37.83	15.31	55	-	-	P	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 7 - 6525~6875MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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)
		13330	50.2	-23.8	74	52.5	39.89	20.3	62.49	-	-	P	H
		13330	38.98	-15.02	54	41.28	39.89	20.3	62.49	-	-	A	H
		19995	33.51	-40.49	74	36.24	37.22	15.05	55	-	-	P	H
802.11ax													
HE160 Full													
CH 143		13330	49.82	-24.18	74	52.12	39.89	20.3	62.49	-	-	P	V
6665MHz		13330	38.6	-15.4	54	40.9	39.89	20.3	62.49	-	-	A	V
		19995	34.1	-39.9	74	36.83	37.22	15.05	55	-	-	P	V

Emission below 1GHz

WIFI 802.11ax HE20 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.	
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full LF		30.54	25.33	-14.67	40	32.96	23.68	0.85	32.16	-	-	P	H
		182.55	24.47	-19.03	43.5	39.8	14.64	2.09	32.06	-	-	P	H
		261.66	21.02	-24.98	46	30.98	19.56	2.5	32.02	-	-	P	H
		707.4	28.83	-17.17	46	30.53	26.33	4.05	32.08	-	-	P	H
		875.4	31.99	-14.01	46	30.43	28.59	4.39	31.42	-	-	P	H
		997.9	36.04	-17.96	54	31.65	29.91	4.79	30.31	-	-	P	H
		30	29.32	-10.68	40	36.71	23.92	0.84	32.15	-	-	P	V
		122.88	27.59	-15.91	43.5	40.58	17.37	1.8	32.16	-	-	P	V
		259.23	20.65	-25.35	46	30.82	19.36	2.49	32.02	-	-	P	V
		566	28.49	-17.51	46	31.18	25.67	3.64	32	-	-	P	V
		843.2	31.69	-14.31	46	30.34	28.61	4.38	31.64	-	-	P	V
		968.5	34.21	-19.79	54	29.57	30.53	4.72	30.61	-	-	P	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	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

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.	
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 01 5955MHz		5925	55.45	-32.75	88.2	54.51	32.22	4.58	35.86	103	308	P	H
		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

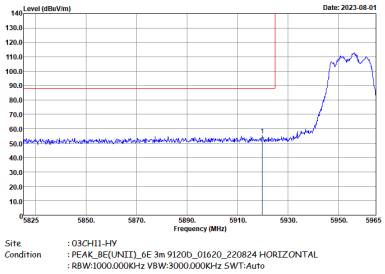
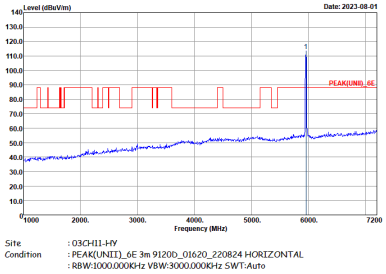
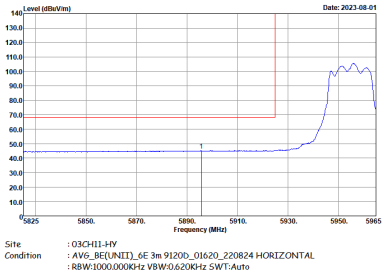
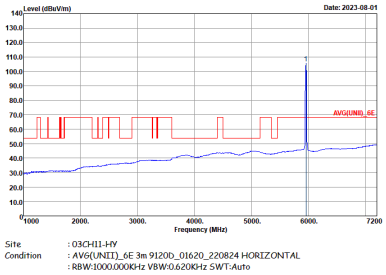
Test Engineer :	Leo Li, Troye Hsieh, Sam Chou and Yuan Lee	**Temperature :**	20.1~21.8°C
		Relative Humidity :	55.8~66.6%

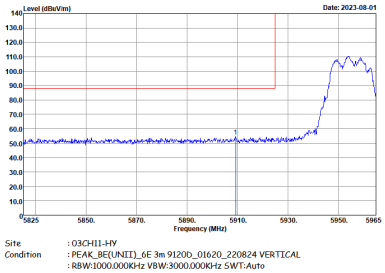
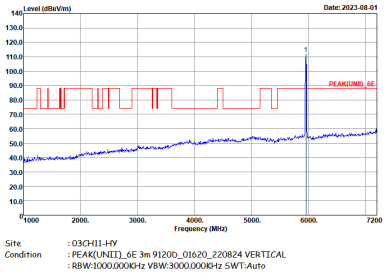
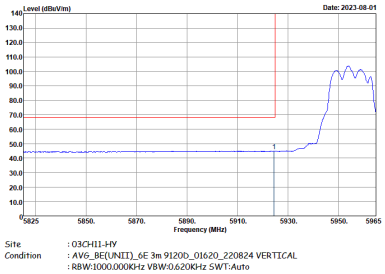
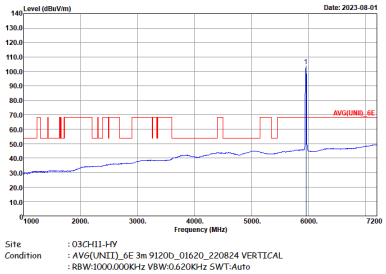
Note symbol

-L	**Low channel location**
-R	**High channel location**

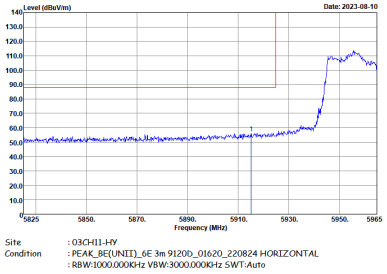
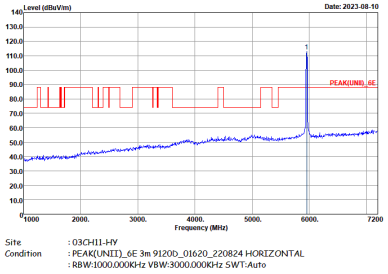
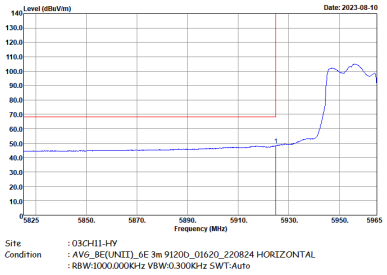
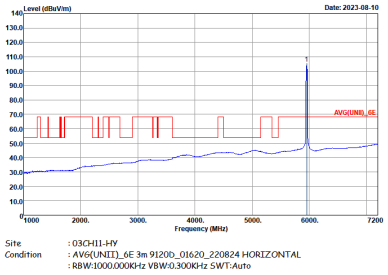
Band 5 - 5925~6425MHz

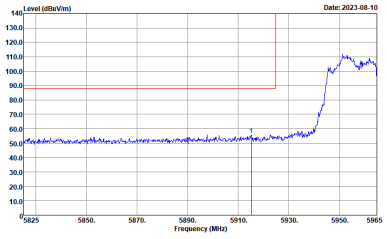
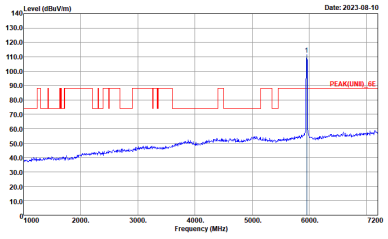
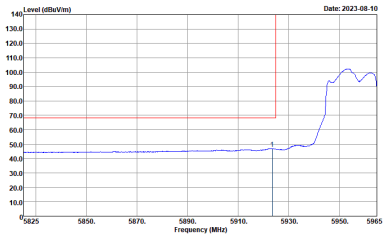
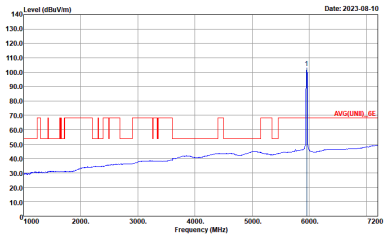
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH01 5955MHz	
6+7	Horizontal	Fundamental
Peak		
Avg.		

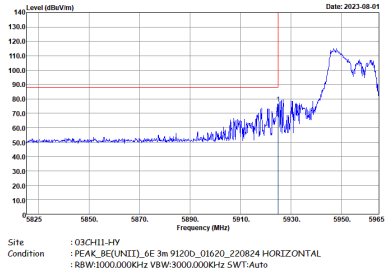
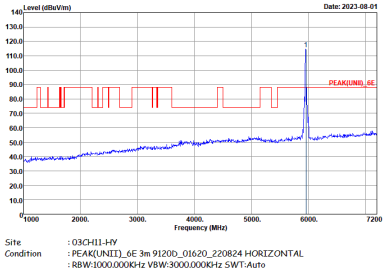
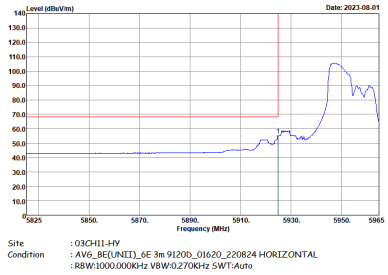
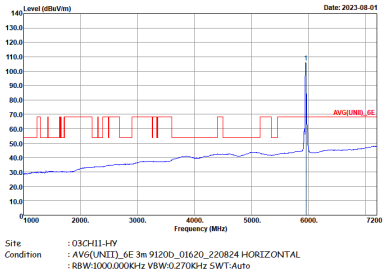
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH01 5955MHz	
6+7	Vertical	Fundamental
Peak		
Avg.		

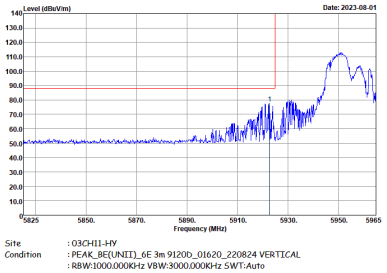
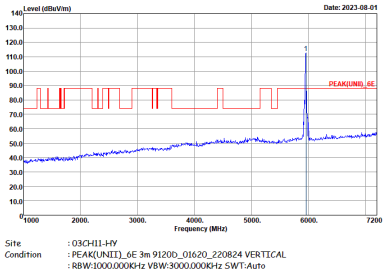
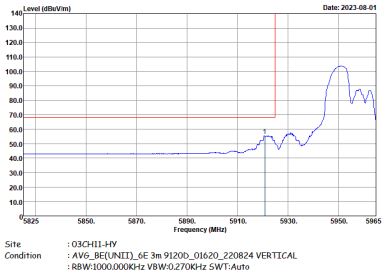
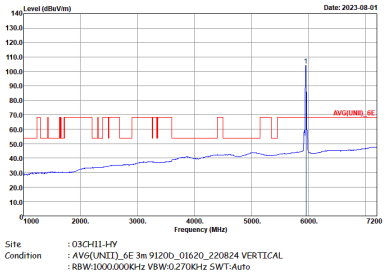
Band 5 5925~6425MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
6+7	Horizontal	Fundamental
Peak		
Avg.		

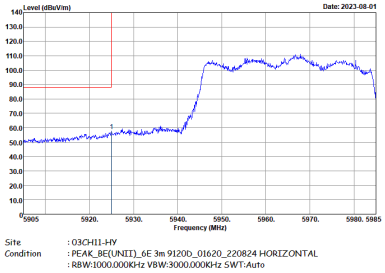
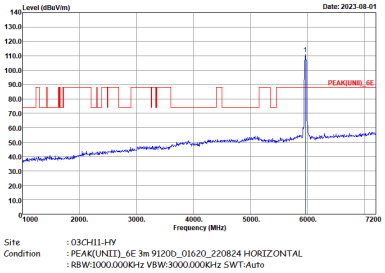
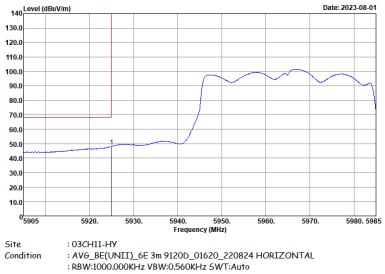
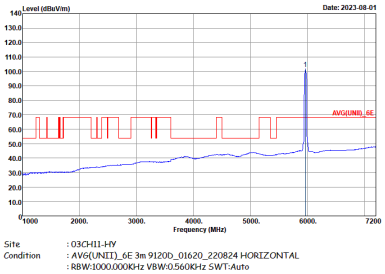
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
6+7	Vertical	Fundamental
Peak		
Avg.		

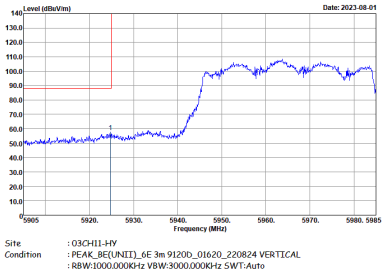
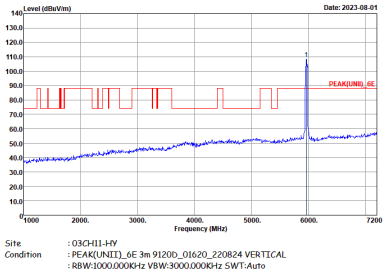
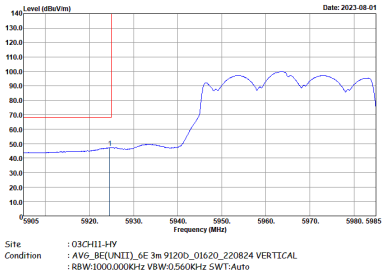
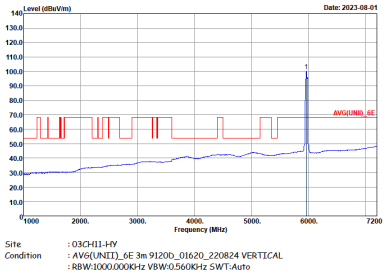
Band 5 5925~6425MHz
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH01 5955MHz	
6+7	Horizontal	Fundamental
Peak		
Avg.		

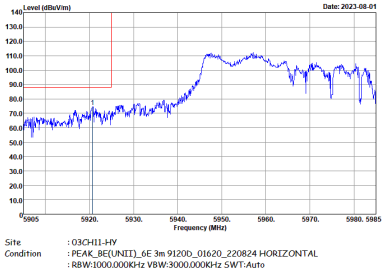
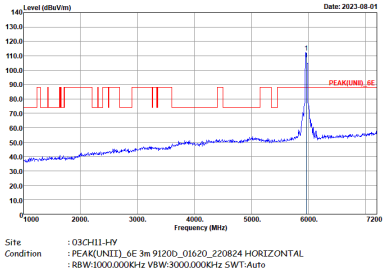
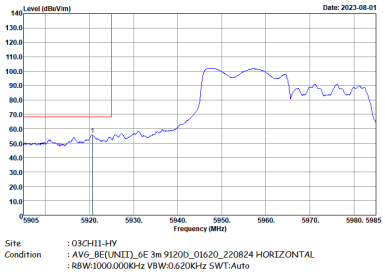
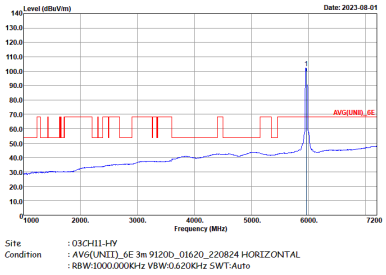
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH01 5955MHz	
6+7	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_6E 3m 9120D_01620_220824 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK(UNII)_6E 3m 9120D_01620_220824 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_6E 3m 9120D_01620_220824 VERTICAL : RBW:1000.000KHz VBW:0.270KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG(UNII)_6E 3m 9120D_01620_220824 VERTICAL : RBW:1000.000KHz VBW:0.270KHz SWT:Auto

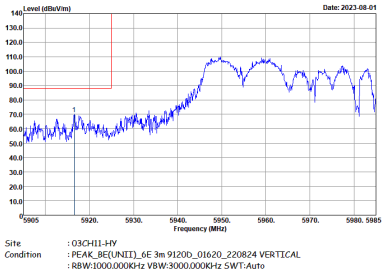
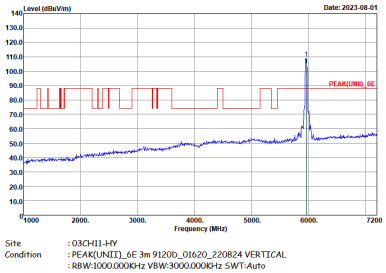
Band 5 5925~6425MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
6+7	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
6+7	Vertical	Fundamental
Peak		
Avg.		

Band 5 5925~6425MHz
WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH03 5965MHz	
6+7	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH03 5965MHz	
6+7	Vertical	Fundamental
Peak		
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