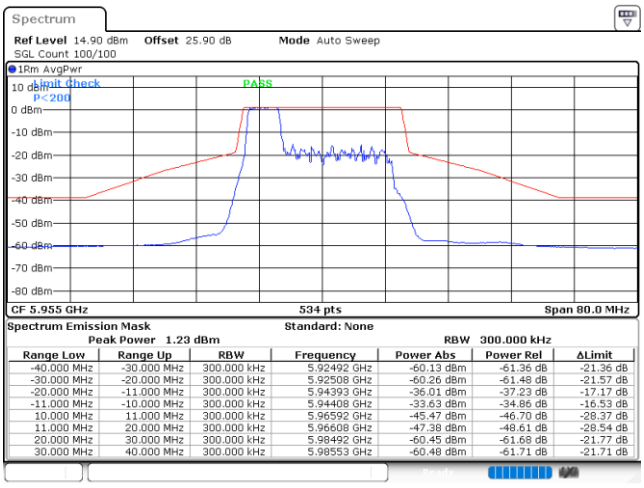
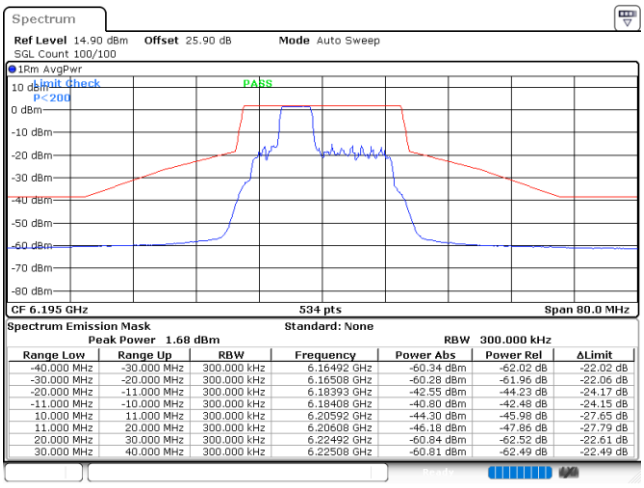
EUT Mode :	802.11ax HE20 52RU

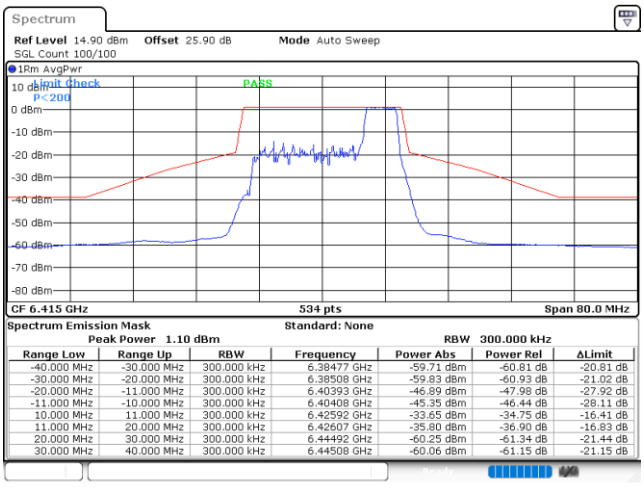
Plot on Channel 5955MHz



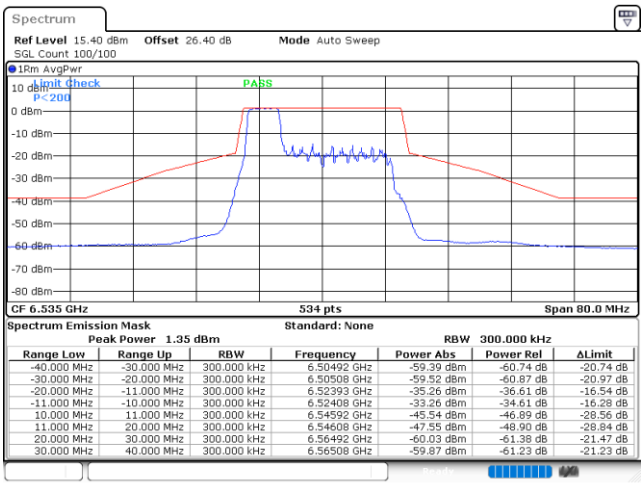
Plot on Channel 6195MHz



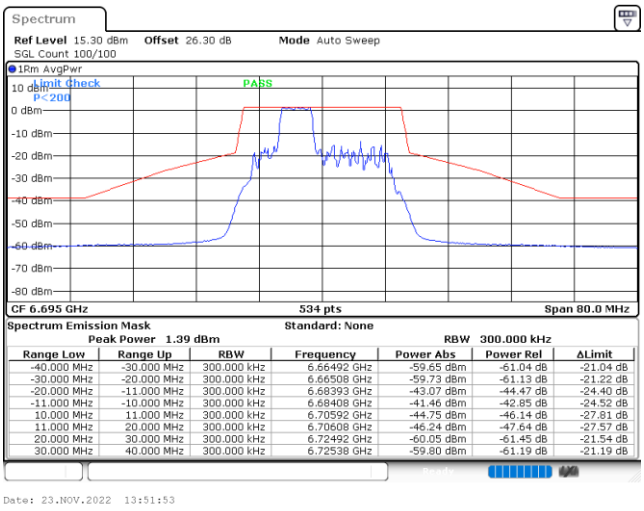
Plot on Channel 6415MHz



Plot on Channel 6535MHz



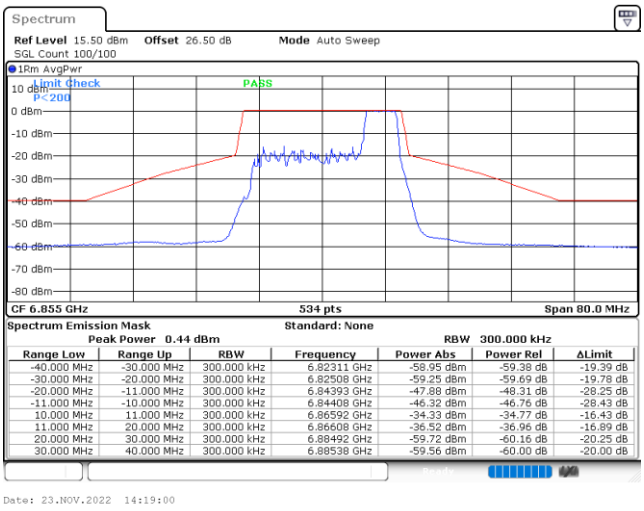
Plot on Channel 6695MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.66492 GHz	-59.65 dBm	-61.04 dB	-21.04 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.66508 GHz	-59.73 dBm	-61.13 dB	-21.22 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.68393 GHz	-43.07 dBm	-44.47 dB	-24.40 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.68408 GHz	-41.46 dBm	-42.85 dB	-24.52 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.70592 GHz	-44.75 dBm	-46.14 dB	-27.81 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.70608 GHz	-46.24 dBm	-47.64 dB	-27.57 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.72492 GHz	-60.05 dBm	-61.45 dB	-21.54 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.72538 GHz	-59.80 dBm	-61.19 dB	-21.19 dB

Date: 23.NOV.2022 13:51:53

Plot on Channel 6855MHz

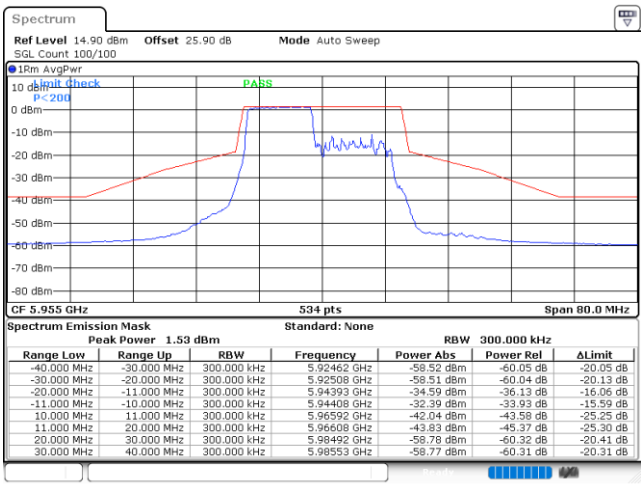


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.82311 GHz	-58.95 dBm	-59.38 dB	-19.39 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.82508 GHz	-59.25 dBm	-59.69 dB	-19.78 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.84393 GHz	-47.88 dBm	-48.31 dB	-28.25 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.84408 GHz	-46.32 dBm	-46.76 dB	-28.43 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.86592 GHz	-34.33 dBm	-34.77 dB	-16.43 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.86608 GHz	-36.52 dBm	-36.96 dB	-16.89 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.88492 GHz	-59.72 dBm	-60.16 dB	-20.25 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.88538 GHz	-59.56 dBm	-60.00 dB	-20.00 dB

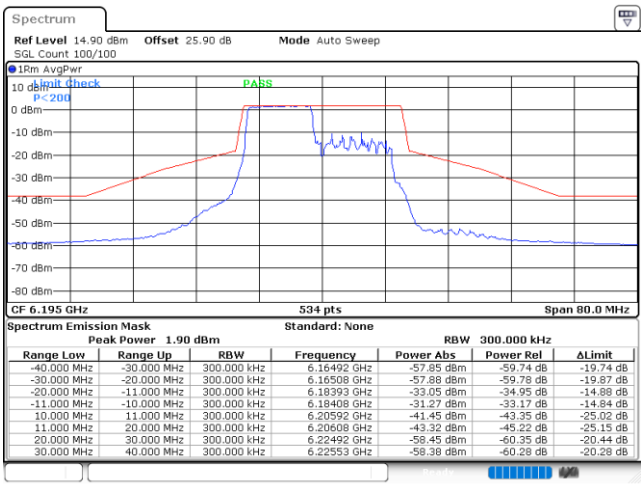
Date: 23.NOV.2022 14:19:00

EUT Mode :	802.11ax HE20 106RU

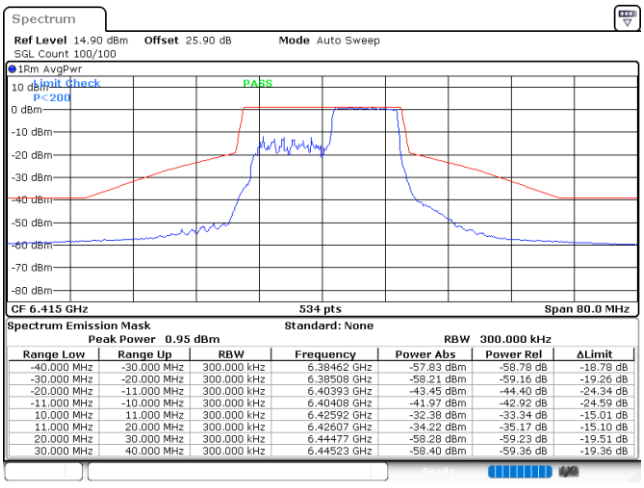
Plot on Channel 5955MHz



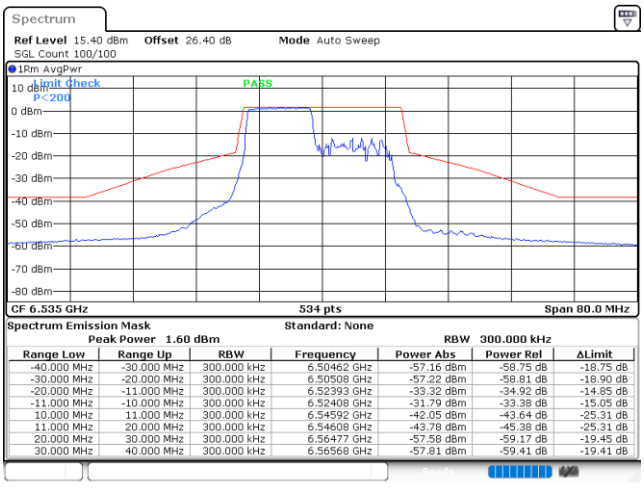
Plot on Channel 6195MHz



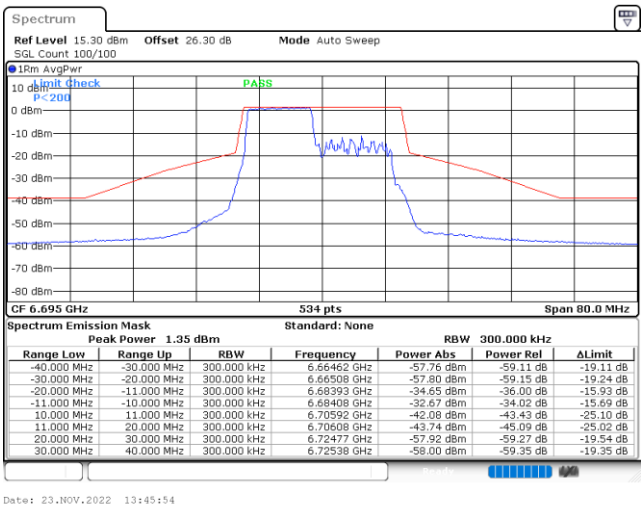
Plot on Channel 6415MHz



Plot on Channel 6535MHz



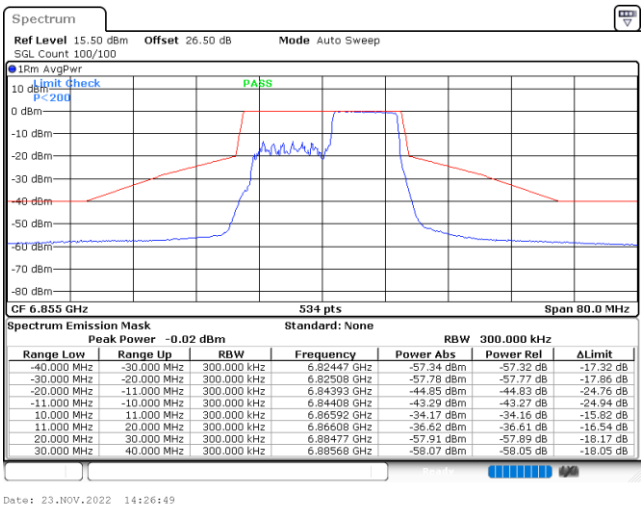
Plot on Channel 6695MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.66462 GHz	-57.76 dBm	-59.11 dB	-19.11 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.66508 GHz	-57.80 dBm	-59.15 dB	-19.24 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.68393 GHz	-34.65 dBm	-36.00 dB	-15.93 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.68408 GHz	-32.67 dBm	-34.02 dB	-15.69 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.70592 GHz	-42.08 dBm	-43.43 dB	-25.10 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.70608 GHz	-43.74 dBm	-45.09 dB	-25.02 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.72477 GHz	-57.92 dBm	-59.27 dB	-19.54 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.72538 GHz	-58.00 dBm	-59.35 dB	-19.35 dB

Date: 23.NOV.2022 13:45:54

Plot on Channel 6855MHz

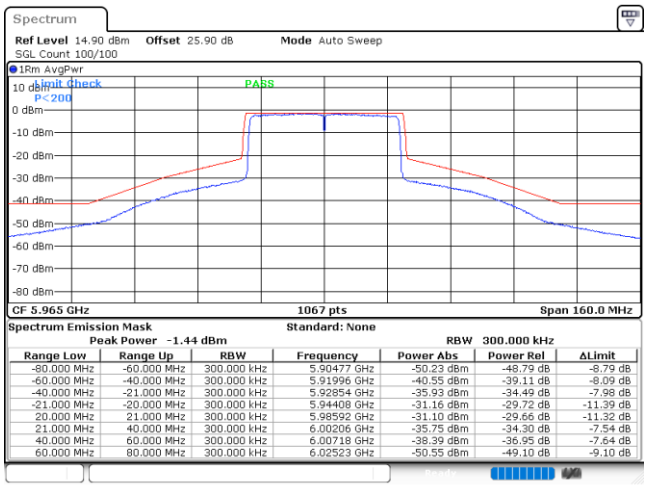


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.82447 GHz	-57.34 dBm	-57.32 dB	-17.32 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.82508 GHz	-57.78 dBm	-57.77 dB	-17.86 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.84393 GHz	-44.85 dBm	-44.83 dB	-24.76 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.84408 GHz	-43.29 dBm	-43.27 dB	-24.94 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.86592 GHz	-34.17 dBm	-34.16 dB	-15.82 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.86608 GHz	-36.62 dBm	-36.61 dB	-16.54 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.88477 GHz	-57.91 dBm	-57.89 dB	-18.17 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.88568 GHz	-58.07 dBm	-58.05 dB	-18.05 dB

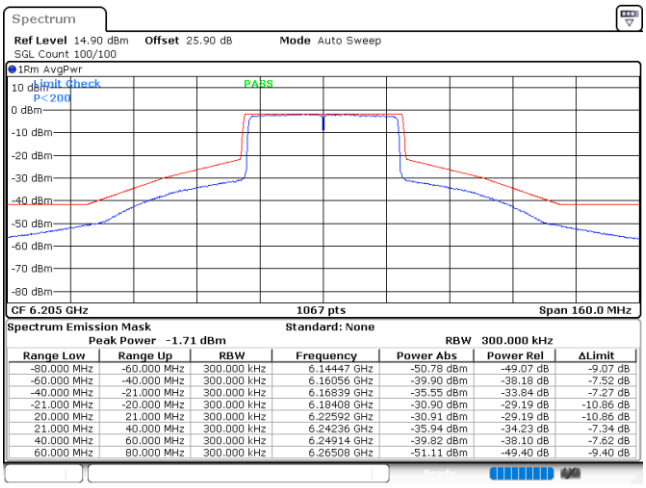
Date: 23.NOV.2022 14:26:49

EUT Mode :	802.11ax HE40 Full RU

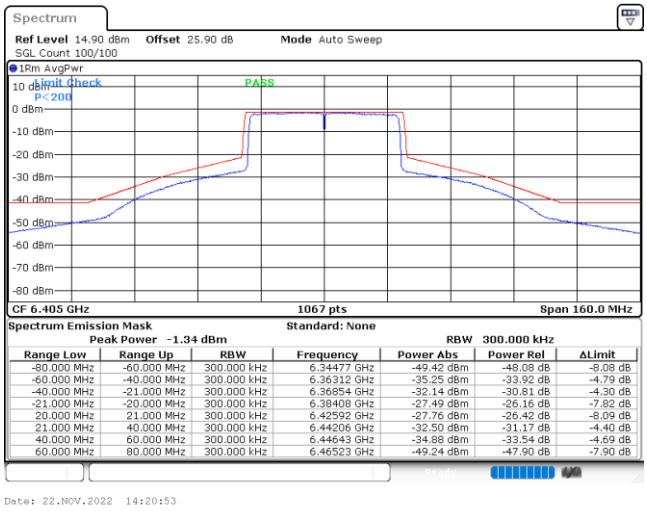
Plot on Channel 5965MHz



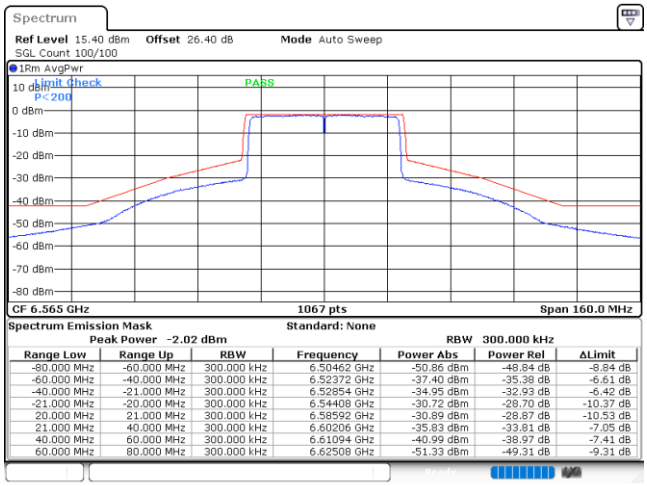
Plot on Channel 6205MHz



Plot on Channel 6405MHz



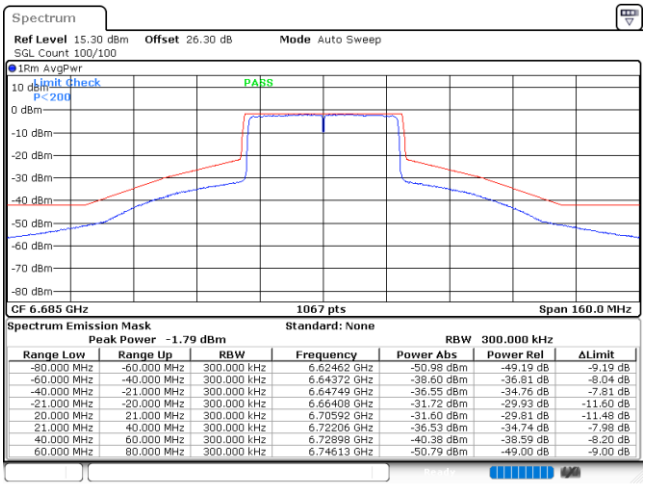
Plot on Channel 6565MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-80.000 MHz	-60.000 MHz	300.000 kHz	6.50462 GHz	-50.86 dBm	-48.84 dB	-8.84 dB
-60.000 MHz	-40.000 MHz	300.000 kHz	6.52372 GHz	-37.40 dBm	-35.38 dB	-6.61 dB
-40.000 MHz	-21.000 MHz	300.000 kHz	6.52854 GHz	-34.95 dBm	-32.93 dB	-6.42 dB
-21.000 MHz	-20.000 MHz	300.000 kHz	6.54408 GHz	-30.72 dBm	-28.70 dB	-10.37 dB
20.000 MHz	21.000 MHz	300.000 kHz	6.58592 GHz	-30.89 dBm	-28.87 dB	-10.53 dB
21.000 MHz	40.000 MHz	300.000 kHz	6.60206 GHz	-35.83 dBm	-33.81 dB	-7.05 dB
40.000 MHz	60.000 MHz	300.000 kHz	6.61094 GHz	-40.99 dBm	-38.97 dB	-7.41 dB
60.000 MHz	80.000 MHz	300.000 kHz	6.62508 GHz	-51.33 dBm	-49.31 dB	-9.31 dB

Date: 22.NOV.2022 14:29:24

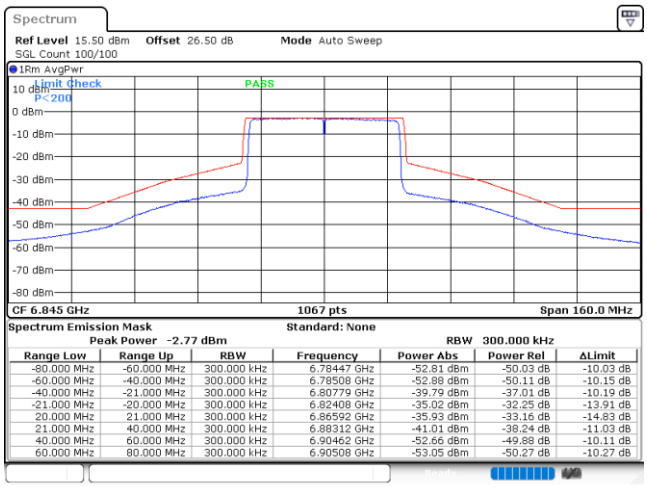
Plot on Channel 6685MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-80.000 MHz	-60.000 MHz	300.000 kHz	6.62462 GHz	-50.98 dBm	-49.19 dB	-9.19 dB
-60.000 MHz	-40.000 MHz	300.000 kHz	6.64372 GHz	-38.60 dBm	-36.81 dB	-8.04 dB
-40.000 MHz	-21.000 MHz	300.000 kHz	6.64749 GHz	-36.55 dBm	-34.76 dB	-7.81 dB
-21.000 MHz	-20.000 MHz	300.000 kHz	6.66408 GHz	-31.72 dBm	-29.93 dB	-11.60 dB
20.000 MHz	21.000 MHz	300.000 kHz	6.70592 GHz	-31.60 dBm	-29.81 dB	-11.48 dB
21.000 MHz	40.000 MHz	300.000 kHz	6.72206 GHz	-36.53 dBm	-34.74 dB	-7.98 dB
40.000 MHz	60.000 MHz	300.000 kHz	6.72898 GHz	-40.38 dBm	-38.59 dB	-8.20 dB
60.000 MHz	80.000 MHz	300.000 kHz	6.74613 GHz	-50.79 dBm	-49.00 dB	-9.00 dB

Date: 22.NOV.2022 14:34:38

Plot on Channel 6845MHz

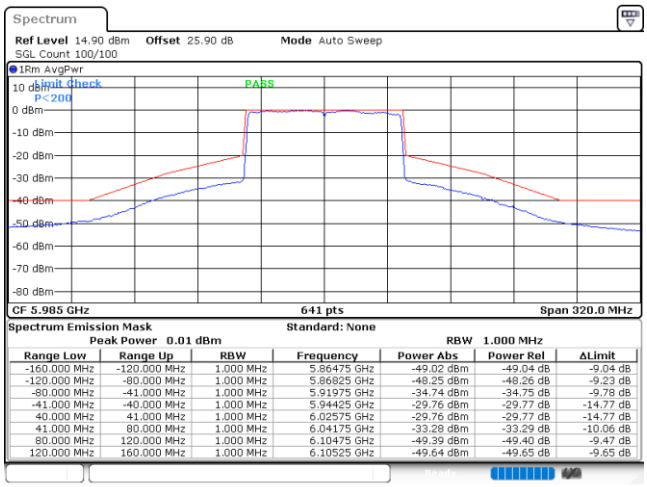


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-80.000 MHz	-60.000 MHz	300.000 kHz	6.78447 GHz	-52.81 dBm	-50.03 dB	-10.03 dB
-60.000 MHz	-40.000 MHz	300.000 kHz	6.78508 GHz	-52.88 dBm	-50.11 dB	-10.15 dB
-40.000 MHz	-21.000 MHz	300.000 kHz	6.80779 GHz	-39.79 dBm	-37.01 dB	-10.19 dB
-21.000 MHz	-20.000 MHz	300.000 kHz	6.82408 GHz	-35.02 dBm	-32.25 dB	-13.91 dB
20.000 MHz	21.000 MHz	300.000 kHz	6.86592 GHz	-35.93 dBm	-33.16 dB	-14.83 dB
21.000 MHz	40.000 MHz	300.000 kHz	6.88312 GHz	-41.01 dBm	-38.24 dB	-11.03 dB
40.000 MHz	60.000 MHz	300.000 kHz	6.90462 GHz	-52.66 dBm	-49.88 dB	-10.11 dB
60.000 MHz	80.000 MHz	300.000 kHz	6.90508 GHz	-53.05 dBm	-50.27 dB	-10.27 dB

Date: 22.NOV.2022 15:01:59

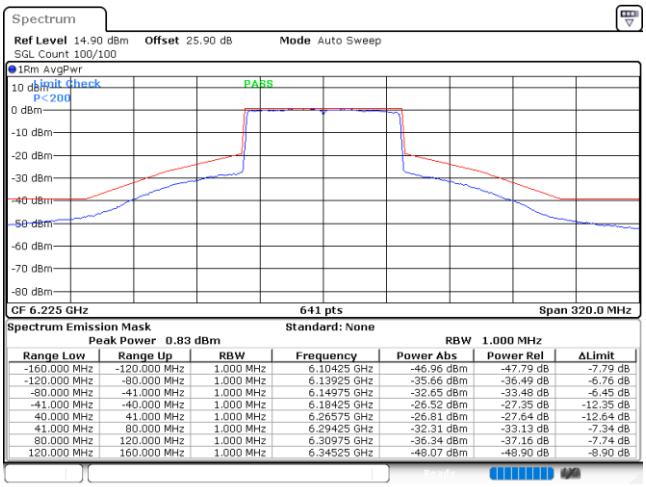
EUT Mode :	802.11ax HE80 Full RU

Plot on Channel 5985MHz



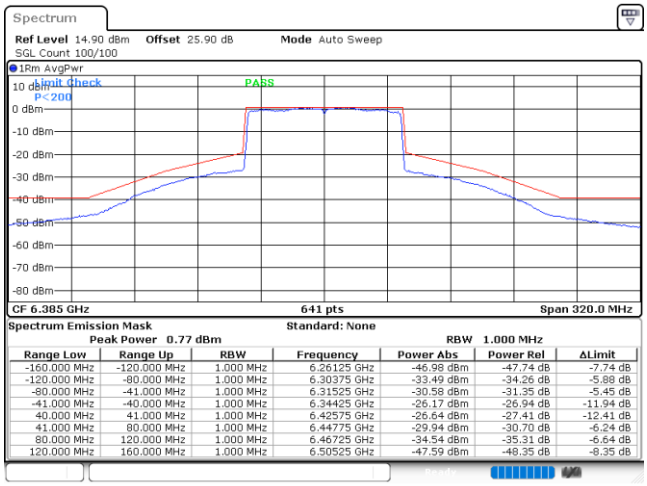
Date: 22.NOV.2022 15:28:53

Plot on Channel 6225MHz



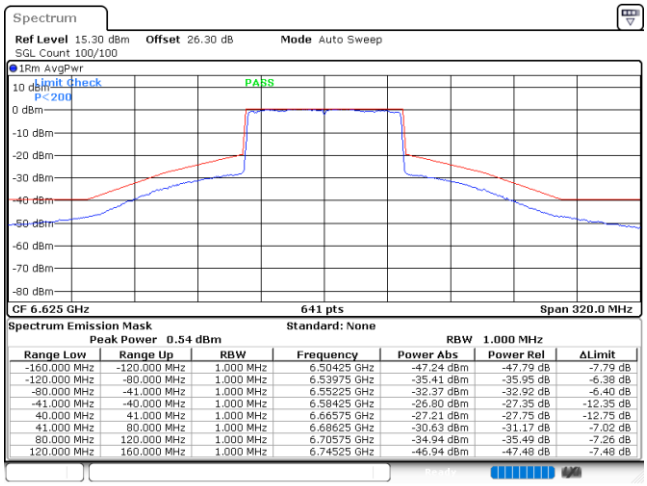
Date: 22.NOV.2022 15:31:24

Plot on Channel 6385MHz



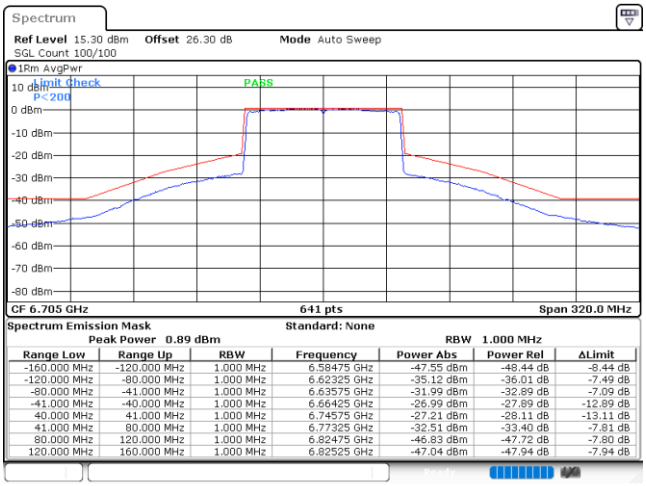
Date: 22.NOV.2022 15:40:54

Plot on Channel 6625MHz



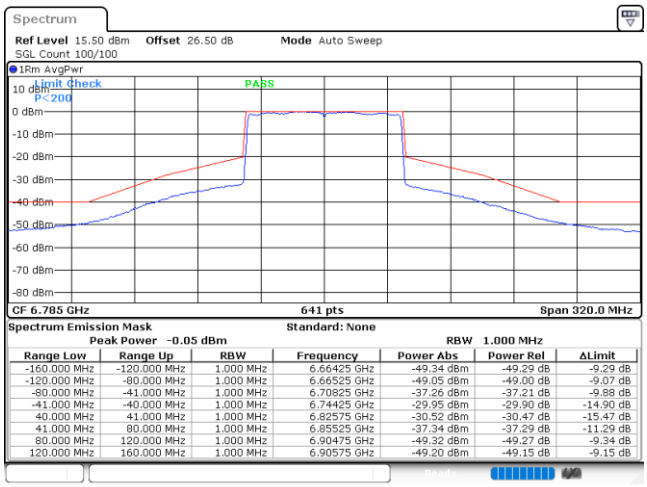
Date: 22.NOV.2022 15:53:23

Plot on Channel 6705MHz



Date: 22.NOV.2022 16:01:40

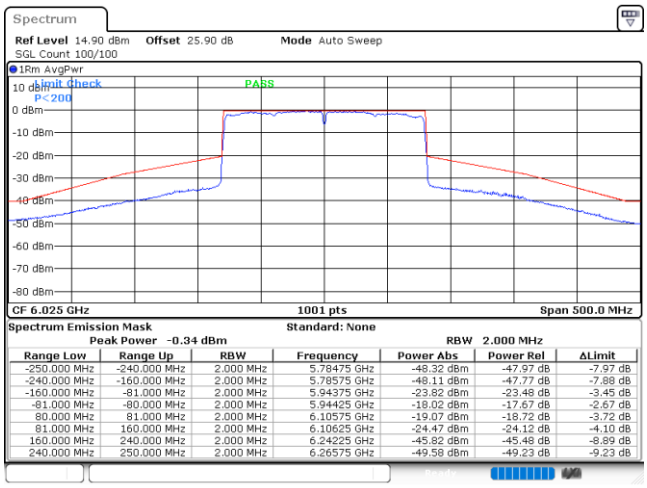
Plot on Channel 6785MHz



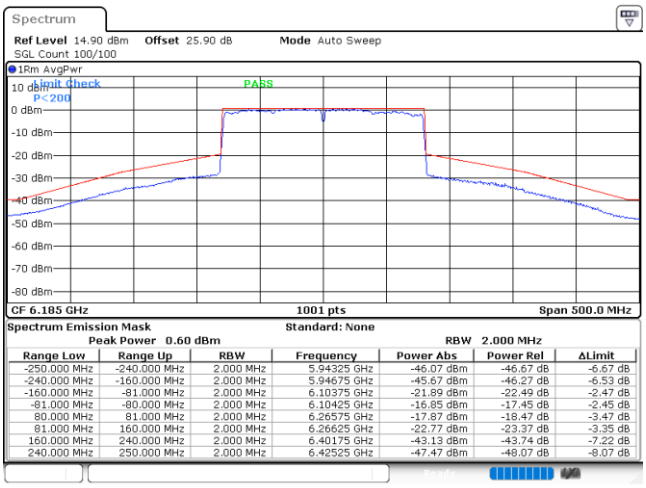
Date: 22.NOV.2022 16:10:35

EUT Mode :	802.11ax HE160 Full RU

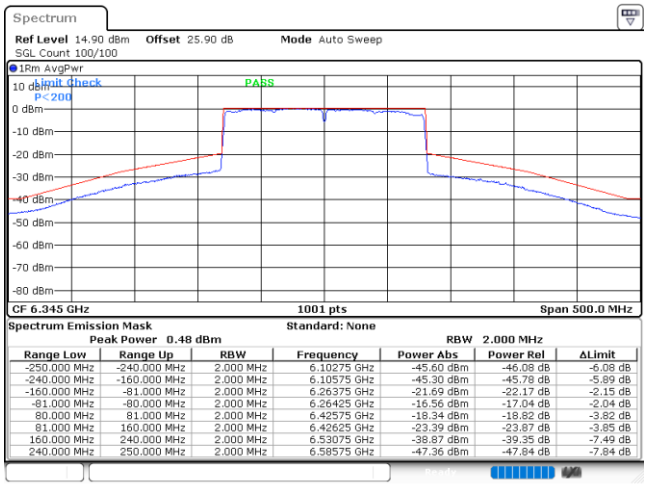
Plot on Channel 6025MHz



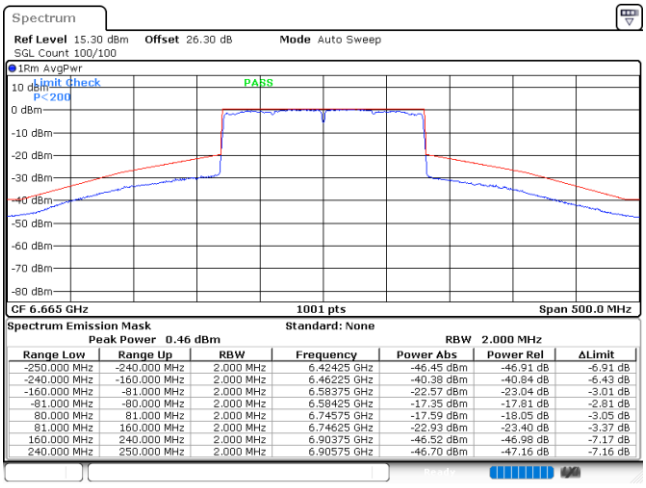
Plot on Channel 6185MHz



Plot on Channel 6345MHz



Plot on Channel 6665MHz



3.5 Contention Based Protocol

3.5.1 Limit of Contention Based Protocol

<FCC 14-30 CFR 15.407>

(d)(6) Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

where:

$BWEUT$: Transmission bandwidth of EUT signal

$BWInc$: Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

$fc1$: Center frequency of EUT transmission

$fc2$: Center frequency of simulated incumbent signal

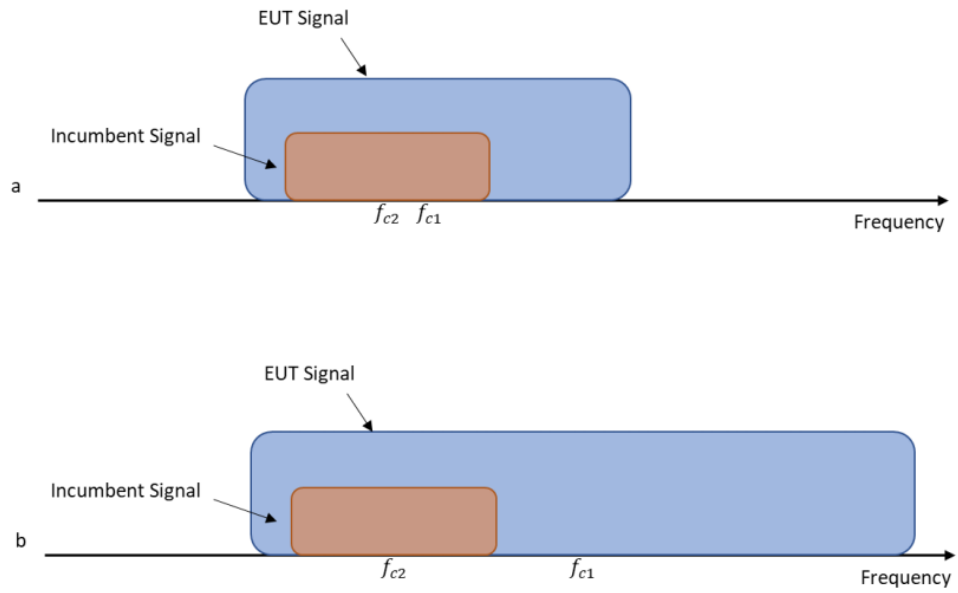


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01.
Section I) Contention Based Protocol
Conducted method Step-by-Step Procedure, Conducted Setup

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
4. Connect the output port of the EUT to the signal analyzer 2, as shown in test setup Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
5. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
6. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
7. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in test setup Figure 2.
8. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.

9. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
10. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
11. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.
12. For the contention-based protocol test where only one channel in each supported sub-band needs to be tested. The narrowest and widest bandwidth in each channel shall be measured EUT was driven in MIMO mode, the interferer level was injected to both chains to monitor the performance, while the interferer level is determined according the lowest antenna gain among both antennas (i.e, lower interferer level).

3.5.4 Test Setup

Conducted Setup

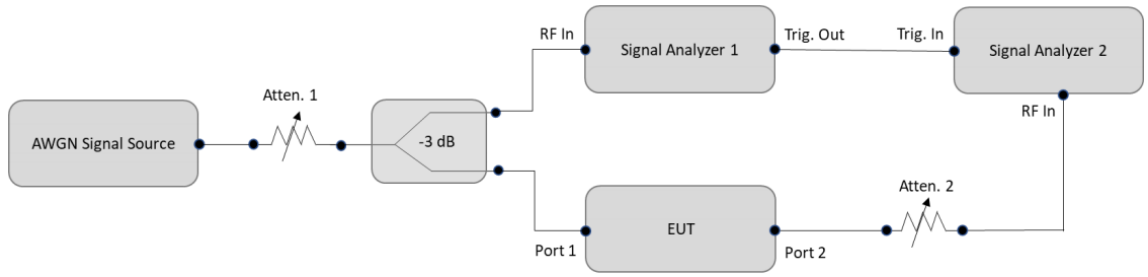


Figure 2. Contention-based protocol test setup, conducted method Step-by-Step Procedure, Conducted Setup

3.5.5 Support Unit used in test configuration and system

Remark: The CBP test result has been done in the original filing FR161608-05G report.

3.5.6 Test Summary of Contention Based Protocol Test

Remark: The CBP test result has been done in the original filing FR161608-05G report.

3.5.7 Test Plots of Contention Based Protocol Test

Remark: The CBP test result has been done in the original filing FR161608-05G report.

3.6 Unwanted Emissions Measurement

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

3.6.1 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)

3.6.2 Measuring Instruments

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

3.6.3 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

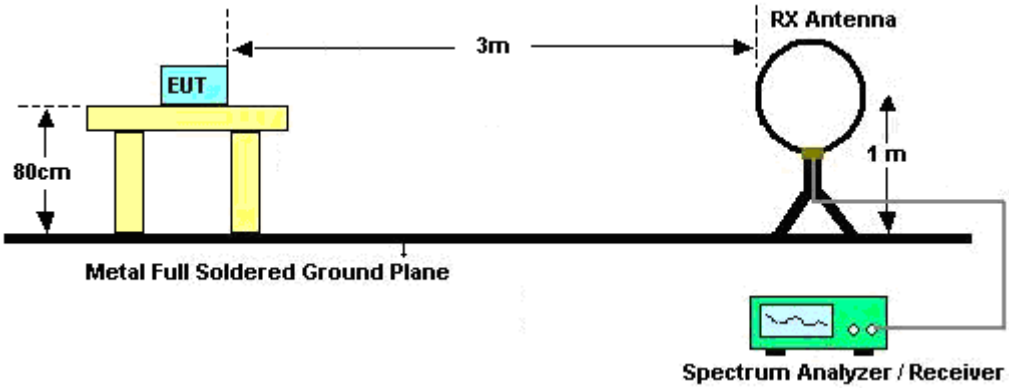
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

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.

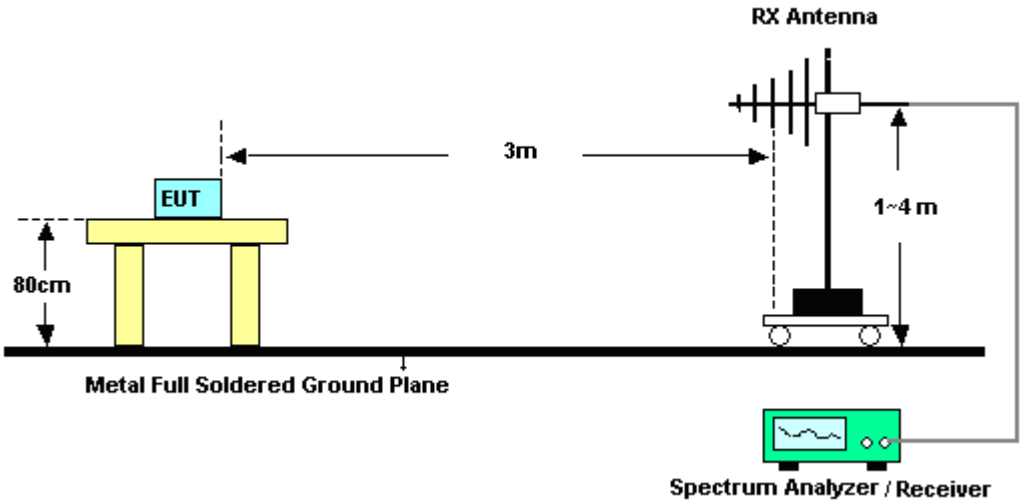
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit 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 "-"..

3.6.4 Test Setup

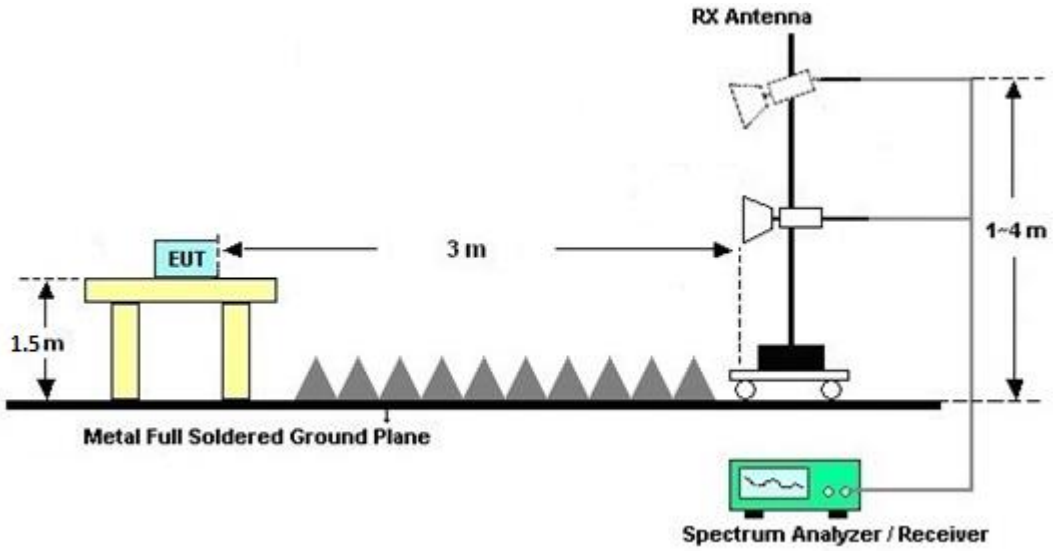
For radiated emissions below 30MHz



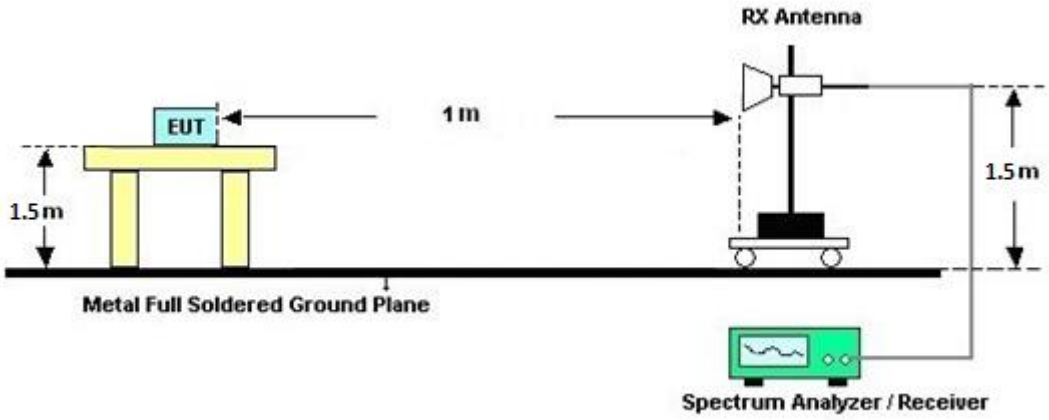
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.6.5 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.

3.6.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.6.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.7 AC Conducted Emission Measurement

3.7.1 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.

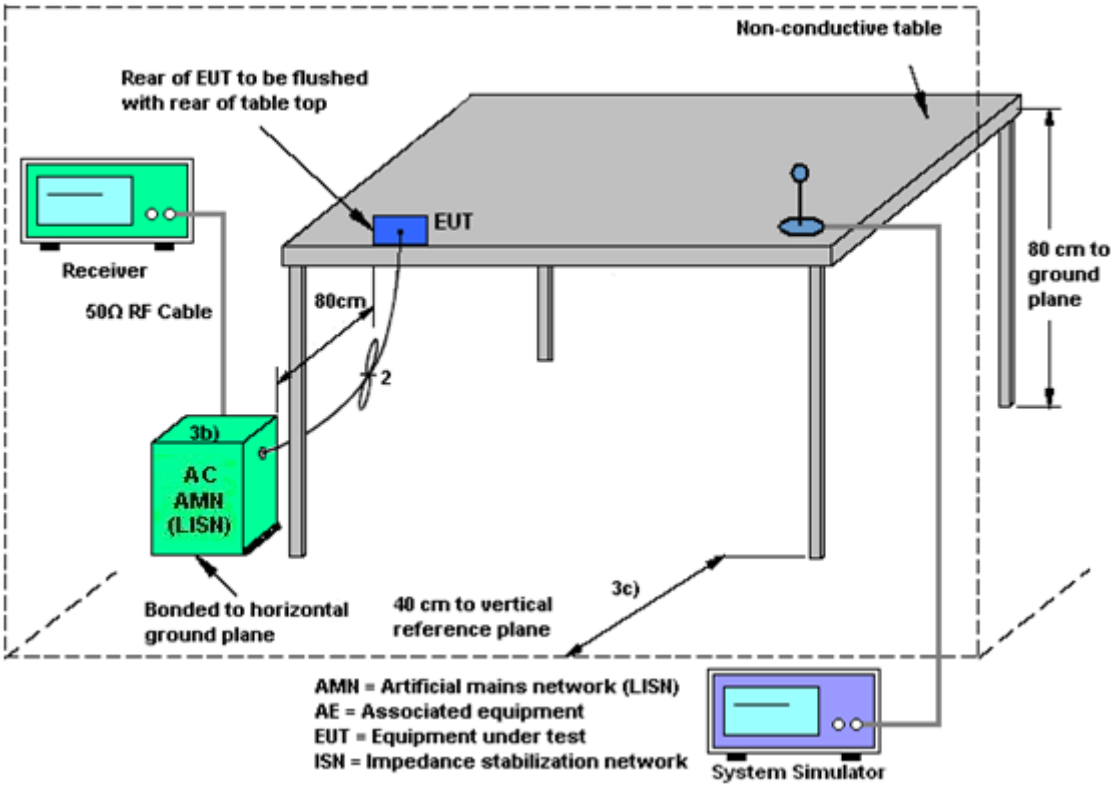
3.7.2 Measuring Instruments

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

3.7.3 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.

3.7.4 Test Setup



3.7.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.8 Antenna Requirements

3.8.1 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.

3.8.2 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
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz~30 MHz	Mar. 18, 2022	Nov. 18, 2022~ Nov. 23, 2022	Mar. 17, 2023	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	41912 & 05	30MHz~1GHz	Feb. 06, 2022	Nov. 18, 2022~ Nov. 23, 2022	Feb. 05, 2023	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 27, 2021	Nov. 18, 2022~ Nov. 23, 2022	Dec. 26, 2022	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 23, 2022	Nov. 18, 2022~ Nov. 23, 2022	Jun. 22, 2023	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	00993	18GHz~40GHz	Nov. 30, 2021	Nov. 18, 2022~ Nov. 23, 2022	Nov. 29, 2022	Radiation (03CH15-HY)
Amplifier	EMEC	EM1G18G	060837	1GHz~18GHz	Sep. 01, 2022	Nov. 18, 2022~ Nov. 23, 2022	Aug. 31, 2023	Radiation (03CH15-HY)
Amplifier	EMEC	EM1G18G	060838	1GHz~18GHz	Sep. 01, 2022	Nov. 18, 2022~ Nov. 23, 2022	Aug. 31, 2023	Radiation (03CH15-HY)
Preamplifier	EM Electronics	EM01G18G	060803	1GHz-18GHz	Dec. 16, 2021	Nov. 18, 2022~ Nov. 23, 2022	Dec. 15, 2022	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060802	18-40GHz	Mar. 08, 2022	Nov. 18, 2022~ Nov. 23, 2022	Mar. 07, 2023	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 18, 2022	Nov. 18, 2022~ Nov. 23, 2022	Oct. 17, 2023	Radiation (03CH15-HY
Spectrum Analyzer	Keysight	N9010	MY54200485	10Hz~44GHz	May 07, 2022	Nov. 18, 2022~ Nov. 23, 2022	May 06, 2023	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Nov. 18, 2022~ Nov. 23, 2022	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Nov. 18, 2022~ Nov. 23, 2022	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k5)	RK-000451	N/A	N/A	Nov. 18, 2022~ Nov. 23, 2022	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY582185/4, MY9838/4PE, 519228/2	30MHz~18G	Jun. 21, 2022	Nov. 18, 2022~ Nov. 23, 2022	Jun. 20, 2023	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804012/2	30MHz-40GHz	Jan. 04, 2022	Nov. 18, 2022~ Nov. 23, 2022	Jan. 03, 2023	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 10, 2022	Nov. 18, 2022~ Nov. 23, 2022	Mar. 09, 2023	Radiation (03CH15-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16. 2021	Oct. 24, 2022~ Oct. 26, 2022	Nov. 15. 2022	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303B	TP200735	N/A	Mar. 22. 2022	Nov. 22, 2022~ Nov. 23, 2022	Mar. 21. 2023	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W #010	RPR6W-2101002(NO:123)	10MHz~8GHz	Jan. 13, 2022	Oct. 24, 2022~ Nov. 23, 2022	Jan. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz - 40GHz(amp)	Aug. 03, 2022	Oct. 24, 2022~ Nov. 23, 2022	Aug. 02, 2023	Conducted (TH05-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	Nov. 16, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Nov. 16, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP201973	N/A	Oct. 22, 2021	Nov. 16, 2021	Oct. 21, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2020	Nov. 16, 2021	Nov. 30, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 16, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 28, 2021	Nov. 16, 2021	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Nov. 16, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Signal Generator (Interferer)	Rohde & Schwarz	SMW200A	109425	100kHz~7.5GHz	Jan. 11, 2021	Dec. 22, 2021~ Dec. 23, 2021	Jan. 10, 2022	CBP (DF02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	Apr. 20, 2021	Dec. 22, 2021~ Dec. 23, 2021	Apr. 19, 2022	CBP (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A1	0.5GHz-18GHz	Calibration from System	Dec. 22, 2021~ Dec. 23, 2021	Calibration from System	CBP (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A2	0.5GHz-18GHz	Calibration from System	Dec. 22, 2021~ Dec. 23, 2021	Calibration from System	CBP (DF02-HY)
Coupler	Woken	10dB 30W SMA	DOM5CIW3A1	0.5-18GHz	Calibration from System	Dec. 22, 2021~ Dec. 23, 2021	Calibration from System	CBP (DF02-HY)
Power Divider	Woken	3Way SMA Power Divder Rated to 20W	STI08-0010(#2)	2GHz-8GHz	Calibration from System	Dec. 22, 2021~ Dec. 23, 2021	Calibration from System	CBP (DF02-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.1 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.3 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.2 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.4 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.2 dB**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Ching Chen	Temperature:	21~25	°C
Test Date:	2022/10/24-2022/11/23	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 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	001	5955	18.68	17.63	34.35	31.05	320.00	Pass
11a	6Mbps	2	049	6195	17.98	17.43	32.25	30.55	320.00	Pass
11a	6Mbps	2	093	6415	17.88	17.68	31.90	30.90	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 4	Ant 3	SUM	Ant 4	Ant 3	SUM		
11a	6Mbps	2	001	5955	19.60	20.00	22.81	-0.90		21.91	30.00	Pass
11a	6Mbps	2	049	6195	19.50	19.70	22.61	-0.90		21.71	30.00	Pass
11a	6Mbps	2	093	6415	19.20	19.00	22.11	-0.90		21.21	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 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	SUM		
11a	6Mbps	2	001	5955	0.29	0.30			11.13	2.11		13.24	17.00	Pass
11a	6Mbps	2	049	6195	0.29	0.30			10.65	2.11		12.76	17.00	Pass
11a	6Mbps	2	093	6415	0.29	0.30			10.24	2.11		12.35	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 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	117	6535	17.43	17.38	25.85	28.15	320.00	Pass
11a	6Mbps	2	149	6695	17.93	17.78	30.90	32.40	320.00	Pass
11a	6Mbps	2	181	6855	18.03	17.28	32.45	29.45	320.00	Pass

Report Number : FR161608-16

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 4	Ant 3	SUM	Ant 4	Ant 3	SUM		
11a	6Mbps	2	117	6535	18.90	19.10	22.01	-1.50		20.51	30.00	Pass
11a	6Mbps	2	149	6695	19.90	20.00	22.96	-1.50		21.46	30.00	Pass
11a	6Mbps	2	181	6855	20.00	19.10	22.58	-1.50		21.08	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 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	SUM		
11a	6Mbps	2	117	6535	0.29	0.30			10.16	0.52		10.68	17.00	Pass
11a	6Mbps	2	149	6695	0.29	0.30			11.11	0.52		11.63	17.00	Pass
11a	6Mbps	2	181	6855	0.29	0.30			10.50	0.52		11.03	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 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	001	5955	Full	19.58	19.38	38.00	29.30	320.00	Pass
HE20	MCS0	2	049	6195	Full	19.53	19.38	37.90	31.75	320.00	Pass
HE20	MCS0	2	093	6415	Full	19.63	19.73	37.50	38.25	320.00	Pass
HE40	MCS0	2	003	5965	Full	38.06	38.06	44.28	42.03	320.00	Pass
HE40	MCS0	2	051	6205	Full	38.16	37.96	46.17	43.11	320.00	Pass
HE40	MCS0	2	091	6405	Full	38.16	38.16	52.11	49.32	320.00	Pass
HE80	MCS0	2	007	5985	Full	77.20	77.20	86.24	81.76	320.00	Pass
HE80	MCS0	2	055	6225	Full	77.08	77.32	90.08	82.72	320.00	Pass
HE80	MCS0	2	087	6385	Full	77.20	77.20	106.40	104.32	320.00	Pass
HE160	MCS0	2	015	6025	Full	156.80	157.04	166.08	167.04	320.00	Pass
HE160	MCS0	2	047	6185	Full	156.80	156.80	220.48	170.88	320.00	Pass
HE160	MCS0	2	079	6345	Full	157.04	157.04	256.00	213.76	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 4	Ant 3	SUM	Ant 4	Ant 3	SUM		
HE20	MCS0	2	001	5955	Full	19.50	19.70	22.61	-0.90		21.71	30.00	Pass
HE20	MCS0	2	001	5955	26/0	9.80	9.80	12.81	-0.90		11.91	30.00	Pass
HE20	MCS0	2	001	5955	52/37	12.20	12.80	15.52	-0.90		14.62	30.00	Pass
HE20	MCS0	2	001	5955	106/53	15.20	15.90	18.57	-0.90		17.67	30.00	Pass
HE20	MCS0	2	049	6195	Full	19.80	19.90	22.86	-0.90		21.96	30.00	Pass
HE20	MCS0	2	049	6195	26/4	10.90	11.10	14.01	-0.90		13.11	30.00	Pass
HE20	MCS0	2	049	6195	52/38	13.00	13.20	16.11	-0.90		15.21	30.00	Pass
HE20	MCS0	2	049	6195	106/53	15.90	16.50	19.22	-0.90		18.32	30.00	Pass
HE20	MCS0	2	093	6415	Full	19.60	19.30	22.46	-0.90		21.56	30.00	Pass
HE20	MCS0	2	093	6415	26/8	9.70	9.50	12.61	-0.90		11.71	30.00	Pass
HE20	MCS0	2	093	6415	52/40	13.00	12.70	15.86	-0.90		14.96	30.00	Pass
HE20	MCS0	2	093	6415	106/54	15.80	15.30	18.57	-0.90		17.67	30.00	Pass
HE40	MCS0	2	003	5965	Full	18.60	18.80	21.71	-0.90		20.81	30.00	Pass
HE40	MCS0	2	051	6205	Full	18.70	18.60	21.66	-0.90		20.76	30.00	Pass
HE40	MCS0	2	091	6405	Full	18.90	18.90	21.91	-0.90		21.01	30.00	Pass
HE80	MCS0	2	007	5985	Full	17.70	18.10	20.91	-0.90		20.01	30.00	Pass
HE80	MCS0	2	055	6225	Full	18.40	18.70	21.56	-0.90		20.66	30.00	Pass
HE80	MCS0	2	087	6385	Full	18.60	18.40	21.51	-0.90		20.61	30.00	Pass
HE160	MCS0	2	015	6025	Full	17.20	17.70	20.47	-0.90		19.57	30.00	Pass
HE160	MCS0	2	047	6185	Full	18.40	18.70	21.56	-0.90		20.66	30.00	Pass
HE160	MCS0	2	079	6345	Full	18.60	18.50	21.56	-0.90		20.66	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 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	SUM		
HE20	MCS0	2	001	5955	Full	0.18	0.18			10.27	2.11		12.38	17.00	Pass
HE20	MCS0	2	001	5955	26/0	0.49	0.48			9.89	2.11		12.00	17.00	Pass
HE20	MCS0	2	001	5955	52/37	0.52	0.52			9.81	2.11		11.92	17.00	Pass
HE20	MCS0	2	001	5955	106/53	0.60	0.58			9.91	2.11		12.02	17.00	Pass
HE20	MCS0	2	049	6195	Full	0.18	0.18			10.43	2.11		12.54	17.00	Pass
HE20	MCS0	2	049	6195	26/4	0.49	0.48			10.24	2.11		12.35	17.00	Pass
HE20	MCS0	2	049	6195	52/38	0.52	0.52			10.30	2.11		12.41	17.00	Pass
HE20	MCS0	2	049	6195	106/53	0.60	0.58			10.29	2.11		12.40	17.00	Pass
HE20	MCS0	2	093	6415	Full	0.18	0.18			10.10	2.11		12.21	17.00	Pass
HE20	MCS0	2	093	6415	26/8	0.49	0.48			9.69	2.11		11.80	17.00	Pass
HE20	MCS0	2	093	6415	52/40	0.52	0.52			9.97	2.11		12.08	17.00	Pass
HE20	MCS0	2	093	6415	106/54	0.60	0.58			9.81	2.11		11.92	17.00	Pass
HE40	MCS0	2	003	5965	Full	0.34	0.34			6.84	2.11		8.95	17.00	Pass
HE40	MCS0	2	051	6205	Full	0.34	0.34			6.64	2.11		8.75	17.00	Pass
HE40	MCS0	2	091	6405	Full	0.34	0.34			7.16	2.11		9.27	17.00	Pass
HE80	MCS0	2	007	5985	Full	0.43	0.42			3.12	2.11		5.23	17.00	Pass
HE80	MCS0	2	055	6225	Full	0.43	0.42			4.01	2.11		6.12	17.00	Pass
HE80	MCS0	2	087	6385	Full	0.43	0.42			4.10	2.11		6.21	17.00	Pass
HE160	MCS0	2	015	6025	Full	0.65	0.63			-0.03	2.11		2.08	17.00	Pass
HE160	MCS0	2	047	6185	Full	0.65	0.63			1.13	2.11		3.24	17.00	Pass
HE160	MCS0	2	079	6345	Full	0.65	0.63			1.21	2.11		3.32	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 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	117	6535	Full	19.38	19.48	29.60	33.70	320.00	Pass
HE20	MCS0	2	149	6695	Full	19.38	19.38	26.95	35.75	320.00	Pass
HE20	MCS0	2	181	6855	Full	19.43	19.38	39.25	25.00	320.00	Pass
HE40	MCS0	2	123	6565	Full	38.06	38.06	43.92	45.00	320.00	Pass
HE40	MCS0	2	147	6685	Full	38.16	38.06	48.96	40.68	320.00	Pass
HE40	MCS0	2	179	6845	Full	38.06	37.86	44.28	39.87	320.00	Pass
HE80	MCS0	2	135	6625	Full	77.20	77.20	95.20	84.96	320.00	Pass
HE80	MCS0	2	151	6705	Full	77.32	77.20	95.52	95.04	320.00	Pass
HE80	MCS0	2	167	6785	Full	77.32	77.20	93.60	81.92	320.00	Pass
HE160	MCS0	2	143	6665	Full	157.28	157.04	240.96	203.20	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 4	Ant 3	SUM	Ant 4	Ant 3	SUM		
HE20	MCS0	2	117	6535	Full	19.70	19.80	22.76	-1.50		21.26	30.00	Pass
HE20	MCS0	2	117	6535	26/0	9.90	9.80	12.86	-1.50		11.36	30.00	Pass
HE20	MCS0	2	117	6535	52/37	12.60	12.90	15.76	-1.50		14.26	30.00	Pass
HE20	MCS0	2	117	6535	106/53	15.60	16.20	18.92	-1.50		17.42	30.00	Pass
HE20	MCS0	2	149	6695	Full	19.70	19.70	22.71	-1.50		21.21	30.00	Pass
HE20	MCS0	2	149	6695	26/4	10.70	10.70	13.71	-1.50		12.21	30.00	Pass
HE20	MCS0	2	149	6695	52/38	12.50	12.40	15.46	-1.50		13.96	30.00	Pass
HE20	MCS0	2	149	6695	106/53	15.30	15.80	18.57	-1.50		17.07	30.00	Pass
HE20	MCS0	2	181	6855	Full	20.00	19.30	22.67	-1.50		21.17	30.00	Pass
HE20	MCS0	2	181	6855	26/8	10.00	9.10	12.58	-1.50		11.08	30.00	Pass
HE20	MCS0	2	181	6855	52/40	12.70	11.70	15.24	-1.50		13.74	30.00	Pass
HE20	MCS0	2	181	6855	106/54	15.50	14.50	18.04	-1.50		16.54	30.00	Pass
HE40	MCS0	2	123	6565	Full	18.60	18.50	21.56	-1.50		20.06	30.00	Pass
HE40	MCS0	2	147	6685	Full	18.70	18.80	21.76	-1.50		20.26	30.00	Pass
HE40	MCS0	2	179	6845	Full	18.70	17.90	21.33	-1.50		19.83	30.00	Pass
HE80	MCS0	2	135	6625	Full	18.90	18.90	21.91	-1.50		20.41	30.00	Pass
HE80	MCS0	2	151	6705	Full	18.80	18.90	21.86	-1.50		20.36	30.00	Pass
HE80	MCS0	2	167	6785	Full	18.80	18.20	21.52	-1.50		20.02	30.00	Pass
HE160	MCS0	2	143	6665	Full	19.00	18.80	21.91	-1.50		20.41	30.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

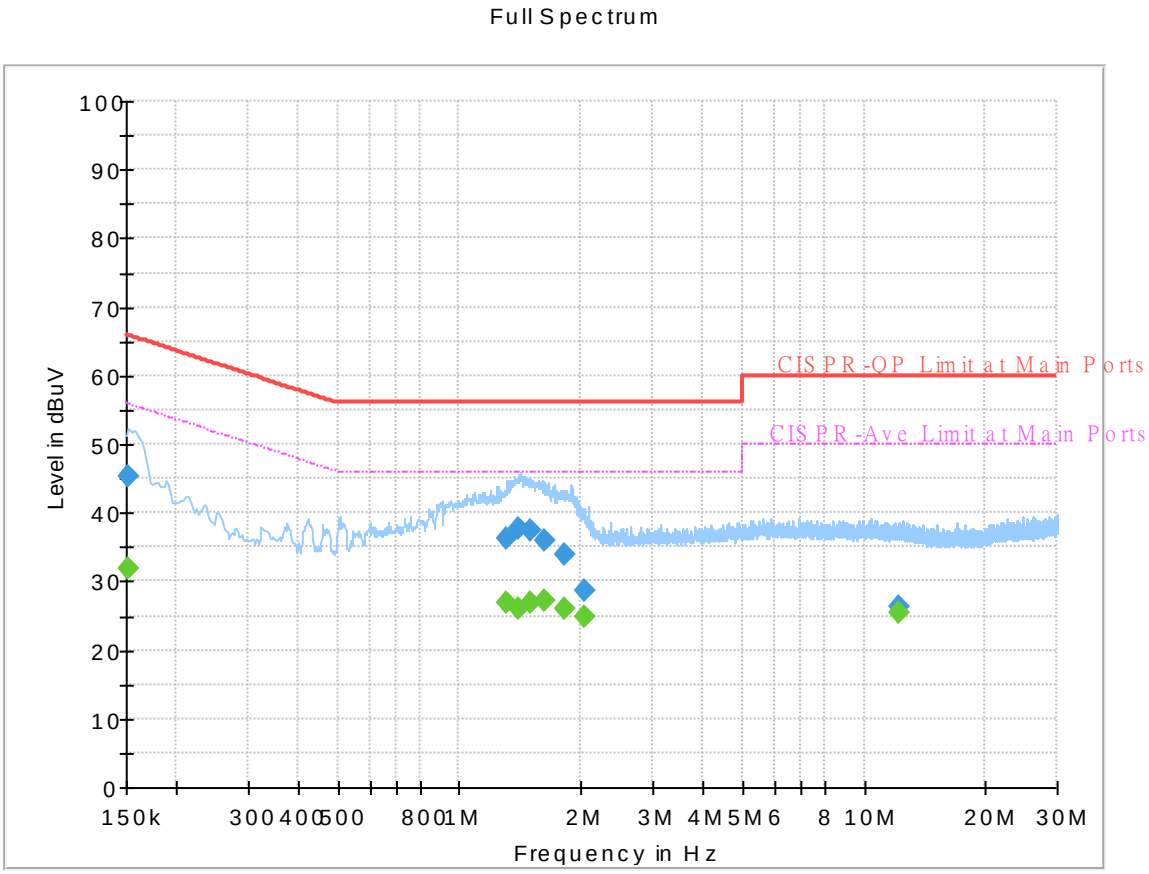
U-NII-7 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	SUM		
HE20	MCS0	2	117	6535	Full	0.18	0.18			10.24	0.52		10.77	17.00	Pass
HE20	MCS0	2	117	6535	26/0	0.49	0.48			10.02	0.52		10.54	17.00	Pass
HE20	MCS0	2	117	6535	52/37	0.52	0.52			9.89	0.52		10.41	17.00	Pass
HE20	MCS0	2	117	6535	106/53	0.60	0.58			10.02	0.52		10.54	17.00	Pass
HE20	MCS0	2	149	6695	Full	0.18	0.18			10.15	0.52		10.68	17.00	Pass
HE20	MCS0	2	149	6695	26/4	0.49	0.48			9.91	0.52		10.43	17.00	Pass
HE20	MCS0	2	149	6695	52/38	0.52	0.52			9.91	0.52		10.43	17.00	Pass
HE20	MCS0	2	149	6695	106/53	0.60	0.58			9.96	0.52		10.48	17.00	Pass
HE20	MCS0	2	181	6855	Full	0.18	0.18			10.05	0.52		10.57	17.00	Pass
HE20	MCS0	2	181	6855	26/8	0.49	0.48			9.86	0.52		10.38	17.00	Pass
HE20	MCS0	2	181	6855	52/40	0.52	0.52			9.74	0.52		10.26	17.00	Pass
HE20	MCS0	2	181	6855	106/54	0.60	0.58			9.63	0.52		10.15	17.00	Pass
HE40	MCS0	2	123	6565	Full	0.34	0.34			6.82	0.52		7.34	17.00	Pass
HE40	MCS0	2	147	6685	Full	0.34	0.34			6.71	0.52		7.23	17.00	Pass
HE40	MCS0	2	179	6845	Full	0.34	0.34			6.29	0.52		6.82	17.00	Pass
HE80	MCS0	2	135	6625	Full	0.43	0.42			3.77	0.52		4.29	17.00	Pass
HE80	MCS0	2	151	6705	Full	0.43	0.42			4.23	0.52		4.75	17.00	Pass
HE80	MCS0	2	167	6785	Full	0.43	0.42			4.00	0.52		4.52	17.00	Pass
HE160	MCS0	2	143	6665	Full	0.65	0.63			1.30	0.52		1.82	17.00	Pass

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	**Temperature :**	23~26℃
		Relative Humidity :	45~55%

EUT Information

Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line



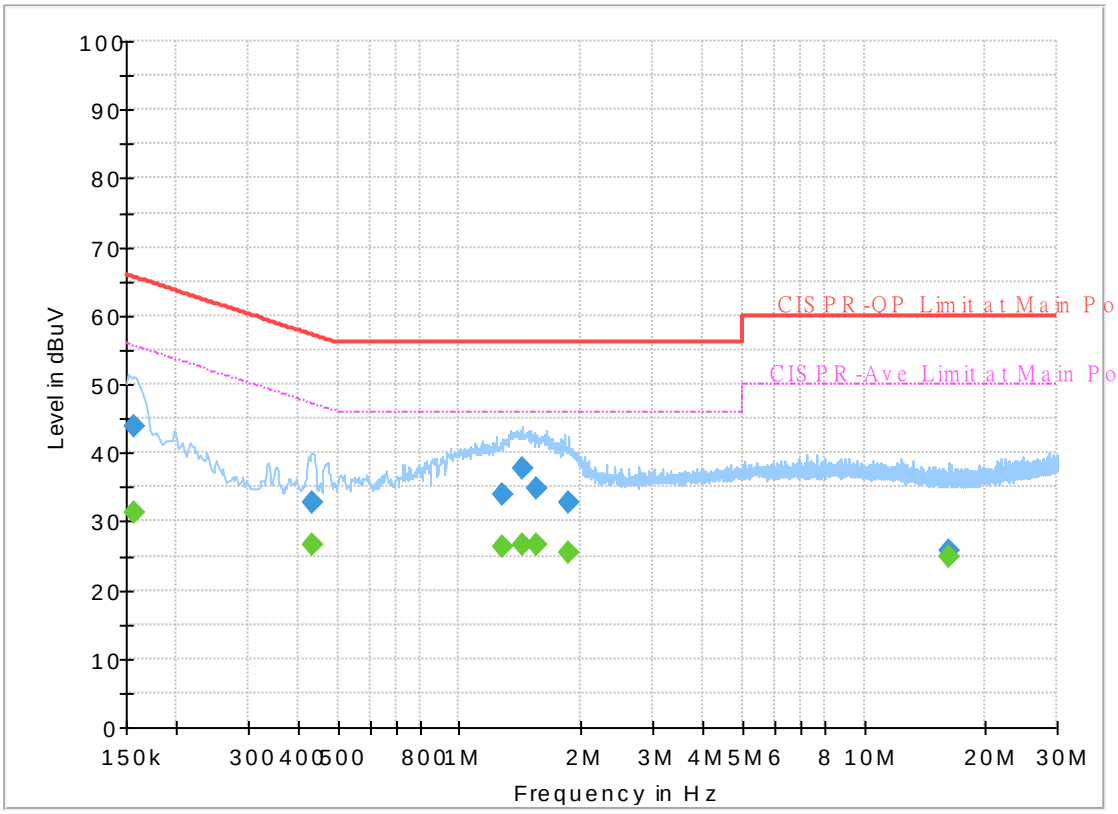
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	31.81	55.88	24.07	L1	OFF	19.7
0.152250	45.41	---	65.88	20.47	L1	OFF	19.7
1.313250	---	26.95	46.00	19.05	L1	OFF	20.2
1.313250	36.26	---	56.00	19.74	L1	OFF	20.2
1.405500	---	26.16	46.00	19.84	L1	OFF	20.2
1.405500	37.62	---	56.00	18.38	L1	OFF	20.2
1.502250	---	26.81	46.00	19.19	L1	OFF	20.2
1.502250	37.48	---	56.00	18.52	L1	OFF	20.2
1.621500	---	27.28	46.00	18.72	L1	OFF	20.2
1.621500	35.94	---	56.00	20.06	L1	OFF	20.2
1.817250	---	26.06	46.00	19.94	L1	OFF	20.2
1.817250	33.97	---	56.00	22.03	L1	OFF	20.2
2.042250	---	24.99	46.00	21.01	L1	OFF	20.2
2.042250	28.79	---	56.00	27.21	L1	OFF	20.2
12.252750	---	25.43	50.00	24.57	L1	OFF	20.2
12.252750	26.33	---	60.00	33.67	L1	OFF	20.2

EUT Information

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)
0.156750	---	31.20	55.63	24.43	N	OFF	19.7
0.156750	43.77	---	65.63	21.86	N	OFF	19.7
0.431250	---	26.49	47.23	20.74	N	OFF	19.7
0.431250	32.85	---	57.23	24.38	N	OFF	19.7
1.279500	---	26.22	46.00	19.78	N	OFF	20.2
1.279500	33.96	---	56.00	22.04	N	OFF	20.2
1.432500	---	26.61	46.00	19.39	N	OFF	20.2
1.432500	37.61	---	56.00	18.39	N	OFF	20.2
1.558500	---	26.50	46.00	19.50	N	OFF	20.2
1.558500	34.90	---	56.00	21.10	N	OFF	20.2
1.866750	---	25.41	46.00	20.59	N	OFF	20.2
1.866750	32.70	---	56.00	23.30	N	OFF	20.2
16.215000	---	24.71	50.00	25.29	N	OFF	20.4
16.215000	25.67	---	60.00	34.33	N	OFF	20.4

Appendix C. Radiated Spurious Emission

Test Engineer :	Eric Xiao , Bigshow Wang and Quentin Liu	Temperature :	21~26°C
		Relative Humidity :	45~60%

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.	
4+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 01 5955MHz		5924.15	63.51	-24.69	88.2	56.24	34.2	9.78	36.71	400	290	P	H
		5924	50.82	-17.38	68.2	43.55	34.2	9.78	36.71	400	290	A	H
	*	5955	103.54	-	-	96.33	34.1	9.82	36.71	400	290	P	H
	*	5955	97.01	-	-	89.8	34.1	9.82	36.71	400	290	A	H
													H
													H
		5922.02	66.49	-21.71	88.2	59.22	34.21	9.77	36.71	114	213	P	V
		5924.82	55.34	-12.86	68.2	48.07	34.2	9.78	36.71	114	213	A	V
	*	5955	112.94	-	-	105.73	34.1	9.82	36.71	114	213	P	V
	*	5955	105.77	-	-	98.56	34.1	9.82	36.71	114	213	A	V
													V
													V
802.11a CH 49 6195MHz		5895.98	49.41	-38.79	88.2	42.09	34.29	9.74	36.71	180	285	P	H
		5906.12	39.72	-28.48	68.2	32.4	34.28	9.75	36.71	180	285	A	H
	*	6195	109.83	-	-	102.21	34.2	10.04	36.62	180	285	P	H
	*	6195	102.68	-	-	95.06	34.2	10.04	36.62	180	285	A	H
													H
													H
		5904.17	50.38	-37.82	88.2	43.06	34.28	9.75	36.71	100	193	P	V
		5923.67	40.27	-27.93	68.2	32.99	34.21	9.78	36.71	100	193	A	V
	*	6195	114.16	-	-	106.54	34.2	10.04	36.62	100	193	P	V
	*	6195	107.09	-	-	99.47	34.2	10.04	36.62	100	193	A	V
													V
													V

WIFI Ant. 4+3	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		5849.6	48.8	-39.4	88.2	41.63	34.2	9.68	36.71	199	307	P	H
		5909.6	39.1	-29.1	68.2	31.79	34.26	9.76	36.71	199	307	A	H
	*	6415	108.36	-	-	100.01	34.8	10.06	36.51	199	307	P	H
	*	6415	101.54	-	-	93.19	34.8	10.06	36.51	199	307	A	H
													H
													H
		5849.6	49.1	-39.1	88.2	41.93	34.2	9.68	36.71	100	193	P	V
		5922.8	39.49	-28.71	68.2	32.21	34.21	9.78	36.71	100	193	A	V
	*	6415	113	-	-	104.65	34.8	10.06	36.51	100	193	P	V
	*	6415	105.62	-	-	97.27	34.8	10.06	36.51	100	193	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. 4+3	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	57.53	-16.47	74	59.95	39.02	13.79	55.23	100	33	P	H
		11910	48.03	-5.97	54	50.45	39.02	13.79	55.23	100	33	A	H
		17865	56.83	-17.17	74	54.44	40.68	16.77	55.06	100	58	P	H
		17865	44.41	-9.59	54	42.02	40.68	16.77	55.06	100	58	A	H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 01 5955MHz													H
		11910	59.19	-14.81	74	61.61	39.02	13.79	55.23	100	66	P	V
		11910	49.05	-4.95	54	51.47	39.02	13.79	55.23	100	66	A	V
		17865	63.19	-10.81	74	60.8	40.68	16.77	55.06	100	82	P	V
		17865	50.28	-3.72	54	47.89	40.68	16.77	55.06	100	82	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	54.51	-19.49	74	56.26	39.03	14.09	54.87	100	41	P	H
		12390	44.57	-9.43	54	46.32	39.03	14.09	54.87	100	41	A	H
		18585	48.93	-25.07	74	69.57	37.97	-3.08	55.53	150	146	P	H
		18585	35.53	-18.47	54	56.17	37.97	-3.08	55.53	150	146	A	H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 49 6195MHz													H
		12390	52.66	-21.34	74	54.41	39.03	14.09	54.87	100	63	P	V
		12390	43.31	-10.69	54	45.06	39.03	14.09	54.87	100	63	A	V
		18585	58.7	-15.3	74	79.34	37.97	-3.08	55.53	150	276	P	V
		18585	43.66	-10.34	54	64.3	37.97	-3.08	55.53	150	276	A	V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	49.13	-39.07	88.2	49.51	39.69	14.4	54.47	-	-	P	H
		19245	57.62	-16.38	74	77.45	38.1	-2.83	55.1	150	159	P	H
		19245	42.58	-11.42	54	62.41	38.1	-2.83	55.1	150	159	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 93 6415MHz		12830	52.03	-36.17	88.2	52.41	39.69	14.4	54.47	-	-	P	V
		19245	65.73	-8.27	74	85.56	38.1	-2.83	55.1	150	275	P	V
		19245	50.69	-3.31	54	70.52	38.1	-2.83	55.1	150	275	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 5 5925~6425MHz

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

WIFI Ant. 4+3	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)
		5921	64.47	-23.73	88.2	57.19	34.22	9.77	36.71	397	284	P	H
		5924.9	53.77	-14.43	68.2	46.5	34.2	9.78	36.71	397	284	A	H
	*	5955	106.06	-	-	98.85	34.1	9.82	36.71	397	284	P	H
	*	5955	98.06	-	-	90.85	34.1	9.82	36.71	397	284	A	H
802.11ax													H
HE20 Full													H
CH 01		5924.6	71.51	-16.69	88.2	64.24	34.2	9.78	36.71	100	233	P	V
5955MHz		5924.9	58.72	-9.48	68.2	51.45	34.2	9.78	36.71	100	233	A	V
	*	5955	113.7	-	-	106.49	34.1	9.82	36.71	100	233	P	V
	*	5955	103.9	-	-	96.69	34.1	9.82	36.71	100	233	A	V
													V
													V

WIFI Ant. 4+3	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)
		5891.69	49.12	-39.08	88.2	41.82	34.28	9.73	36.71	400	285	P	H
		5896.37	39.63	-28.57	68.2	32.31	34.29	9.74	36.71	400	285	A	H
	*	6195	108.18	-	-	100.56	34.2	10.04	36.62	400	285	P	H
	*	6195	99.95	-	-	92.33	34.2	10.04	36.62	400	285	A	H
802.11ax													H
HE20 Full													H
CH 49		5906.51	49.73	-38.47	88.2	42.42	34.27	9.75	36.71	400	193	P	V
6195MHz		5914.7	40.32	-27.88	68.2	33.03	34.24	9.76	36.71	400	193	A	V
	*	6195	113.11	-	-	105.49	34.2	10.04	36.62	400	193	P	V
	*	6195	104.53	-	-	96.91	34.2	10.04	36.62	400	193	A	V
													V
													V
		5889.8	48.98	-39.22	88.2	41.68	34.28	9.73	36.71	100	307	P	H
		5901.2	39.09	-29.11	68.2	31.75	34.3	9.75	36.71	100	307	A	H
	*	6415	108.91	-	-	100.56	34.8	10.06	36.51	100	307	P	H
	*	6415	99.76	-	-	91.41	34.8	10.06	36.51	100	307	A	H
802.11ax													H
HE20 Full													H
CH 93		5879	50.1	-38.1	88.2	42.83	34.26	9.72	36.71	400	193	P	V
6415MHz		5894.6	39.35	-28.85	68.2	32.03	34.29	9.74	36.71	400	193	A	V
	*	6415	113.21	-	-	104.86	34.8	10.06	36.51	400	193	P	V
	*	6415	103.98	-	-	95.63	34.8	10.06	36.51	400	193	A	V
													V
													V

Remark

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

Band 1 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 4+3	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	56.27	-17.73	74	58.69	39.02	13.79	55.23	100	35	P	H
		11910	47.5	-6.5	54	49.92	39.02	13.79	55.23	100	35	A	H
		17865	55.19	-18.81	74	52.8	40.68	16.77	55.06	100	58	P	H
		17865	43.45	-10.55	54	41.06	40.68	16.77	55.06	100	58	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 01		11910	57.42	-16.58	74	59.84	39.02	13.79	55.23	100	64	P	V
5955MHz		11910	49.54	-4.46	54	51.96	39.02	13.79	55.23	100	64	A	V
		17865	61.15	-12.85	74	58.76	40.68	16.77	55.06	100	85	P	V
		17865	49	-5	54	46.61	40.68	16.77	55.06	100	85	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	52.66	-21.34	74	54.41	39.03	14.09	54.87	100	39	P	H
		12390	43.92	-10.08	54	45.67	39.03	14.09	54.87	100	39	A	H
		18585	58.9	-15.1	74	79.54	37.97	-3.08	55.53	150	276	P	V
		18585	43.66	-10.34	54	64.3	37.97	-3.08	55.53	150	276	A	V
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 49		12390	54.44	-19.56	74	56.19	39.03	14.09	54.87	100	316	P	V
6195MHz		12390	45.19	-8.81	54	46.94	39.03	14.09	54.87	100	316	A	V
		18585	48.6	-25.4	74	69.24	37.97	-3.08	55.53	150	147	P	H
		18585	35.33	-18.67	54	55.97	37.97	-3.08	55.53	150	147	A	H
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	48.03	-40.17	88.2	48.41	39.69	14.4	54.47	-	-	P	H
		19245	64.9	-9.1	74	84.73	38.1	-2.83	55.1	150	275	P	V
		19245	50.04	-3.96	54	69.87	38.1	-2.83	55.1	150	275	A	V
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 93		12830	50.62	-37.58	88.2	51	39.69	14.4	54.47	-	-	P	V
6415MHz		19245	55.53	-18.47	74	75.36	38.1	-2.83	55.1	150	158	P	H
		19245	41.67	-12.33	54	61.5	38.1	-2.83	55.1	150	158	A	H
													V
													V
													V
													V
													V
													V
													V
													V
													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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 5 5925~6425MHz

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

WIFI Ant. 4+3	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)
		5924.45	73.71	-14.49	88.2	66.44	34.2	9.78	36.71	381	295	P	H
		5925	60.53	-7.67	68.2	53.26	34.2	9.78	36.71	381	295	A	H
	*	5965	101.88	-	-	94.66	34.1	9.83	36.71	381	295	P	H
	*	5965	92.93	-	-	85.71	34.1	9.83	36.71	381	295	A	H
802.11ax													H
HE40 Full													H
CH 03		5922.92	78.61	-9.59	88.2	71.33	34.21	9.78	36.71	100	245	P	V
5965MHz		5924.9	66.59	-1.61	68.2	59.32	34.2	9.78	36.71	100	245	A	V
	*	5965	108.88	-	-	101.66	34.1	9.83	36.71	100	245	P	V
	*	5965	100.68	-	-	93.46	34.1	9.83	36.71	100	245	A	V
													V
													V

WIFI Ant. 4+3	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)
		5860.945	48.91	-39.29	88.2	41.71	34.22	9.69	36.71	400	305	P	H
		5884.25	39.31	-28.89	68.2	32.03	34.27	9.72	36.71	400	305	A	H
	*	6205	104.75	-	-	97.11	34.21	10.04	36.61	400	305	P	H
	*	6205	95.05	-	-	87.41	34.21	10.04	36.61	400	305	A	H
802.11ax													H
HE40 Full													H
CH 51		5851.86	50.28	-37.92	88.2	43.11	34.2	9.68	36.71	120	244	P	V
6205MHz		5923.355	40.03	-28.17	68.2	32.75	34.21	9.78	36.71	120	244	A	V
	*	6205	109.46	-	-	101.82	34.21	10.04	36.61	120	244	P	V
	*	6205	100.52	-	-	92.88	34.21	10.04	36.61	120	244	A	V
													V
													V
		5903	49.66	-38.54	88.2	42.33	34.29	9.75	36.71	396	295	P	H
		5876	38.96	-29.24	68.2	31.71	34.25	9.71	36.71	396	295	A	H
	*	6405	101.83	-	-	93.5	34.8	10.05	36.52	396	295	P	H
	*	6405	92.64	-	-	84.31	34.8	10.05	36.52	396	295	A	H
802.11ax													H
HE40 Full													H
CH 91		5919.2	49.2	-39	88.2	41.92	34.22	9.77	36.71	100	188	P	V
6405MHz		5907.2	39.16	-29.04	68.2	31.85	34.27	9.75	36.71	100	188	A	V
	*	6405	109.37	-	-	101.04	34.8	10.05	36.52	100	188	P	V
	*	6405	100.61	-	-	92.28	34.8	10.05	36.52	100	188	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. 4+3	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	53.47	-20.53	74	55.84	39.06	13.8	55.23	100	33	P	H
		11930	44.11	-9.89	54	46.48	39.06	13.8	55.23	100	33	A	H
		17896	53.31	-20.69	74	50.61	40.96	16.78	55.04	100	60	P	H
		17896	42.71	-11.29	54	40.01	40.96	16.78	55.04	100	60	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 03		11930	53.54	-20.46	74	55.91	39.06	13.8	55.23	100	61	P	V
5965MHz		11930	44.43	-9.57	54	46.8	39.06	13.8	55.23	100	61	A	V
		17895	57.73	-16.27	74	55.03	40.96	16.78	55.04	100	83	P	V
		17895	45.45	-8.55	54	42.75	40.96	16.78	55.04	100	83	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	47.58	-26.42	74	49.31	39.01	14.11	54.85	-	-	P	H
		18615	36.66	-37.34	74	57.23	37.99	-3.05	55.51	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 51		12410	47.94	-26.06	74	49.67	39.01	14.11	54.85	-	-	P	V
6205MHz		18615	47.04	-26.96	74	67.61	37.99	-3.05	55.51	150	159	P	V
		18615	32.62	-21.38	54	53.19	37.99	-3.05	55.51	150	159	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	47.9	-40.3	88.2	48.37	39.63	14.39	54.49	-	-	P	H
		19215	57.92	-16.08	74	77.75	38.09	-2.81	55.11	150	275	P	V
		19215	44.14	-9.86	54	63.97	38.09	-2.81	55.11	150	275	A	V
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 91		12810	48.06	-40.14	88.2	48.53	39.63	14.39	54.49	-	-	P	V
6405MHz		19215	50.21	-23.79	74	70.04	38.09	-2.81	55.11	150	159	P	H
		19215	36.16	-17.84	54	55.99	38.09	-2.81	55.11	150	159	A	H
													V
													V
													V
													V
													V
													V
													V
													V
													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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 5 5925~6425MHz

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

WIFI Ant. 4+3	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)
		5924.54	69.36	-18.84	88.2	62.09	34.2	9.78	36.71	399	302	P	H
		5923.98	59.14	-9.06	68.2	51.87	34.2	9.78	36.71	399	302	A	H
	*	5985	98.15	-	-	90.9	34.1	9.86	36.71	399	302	P	H
	*	5985	90.05	-	-	82.8	34.1	9.86	36.71	399	302	A	H
802.11ax													H
HE80 Full													H
CH 07		5921.6	76.27	-11.93	88.2	69	34.21	9.77	36.71	100	238	P	V
5985MHz		5924.82	66.46	-1.74	68.2	59.19	34.2	9.78	36.71	100	238	A	V
	*	5985	107.57	-	-	100.32	34.1	9.86	36.71	100	238	P	V
	*	5985	98.94	-	-	91.69	34.1	9.86	36.71	100	238	A	V
													V
													V

WIFI Ant. 4+3	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)
		5878.12	49.81	-38.39	88.2	42.54	34.26	9.72	36.71	400	303	P	H
		5904.265	40.6	-27.6	68.2	33.28	34.28	9.75	36.71	400	303	A	H
	*	6225	99.91	-	-	92.22	34.25	10.04	36.6	400	303	P	H
	*	6225	91.94	-	-	84.25	34.25	10.04	36.6	400	303	A	H
802.11ax													H
HE80 Full													H
CH 55		5908.83	50.86	-37.34	88.2	43.55	34.26	9.76	36.71	100	193	P	V
6225MHz		5920.035	42.23	-25.97	68.2	34.95	34.22	9.77	36.71	100	193	A	V
	*	6225	105.98	-	-	98.29	34.25	10.04	36.6	100	193	P	V
	*	6225	97.82	-	-	90.13	34.25	10.04	36.6	100	193	A	V
													V
													V
		5890.55	48.99	-39.21	88.2	41.69	34.28	9.73	36.71	400	301	P	H
		5857.2	39.81	-28.39	68.2	32.62	34.21	9.69	36.71	400	301	A	H
	*	6385	100.97	-	-	92.68	34.77	10.05	36.53	400	301	P	H
	*	6385	92.36	-	-	84.07	34.77	10.05	36.53	400	301	A	H
802.11ax													H
HE80 Full													H
CH 87		5881.35	49.63	-38.57	88.2	42.36	34.26	9.72	36.71	100	191	P	V
6385MHz		5916.425	40.81	-27.39	68.2	33.52	34.23	9.77	36.71	100	191	A	V
	*	6385	106.91	-	-	98.62	34.77	10.05	36.53	100	191	P	V
	*	6385	97.68	-	-	89.39	34.77	10.05	36.53	100	191	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)

WIFI Ant. 4+3	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)
		11970	46.81	-27.19	74	49.07	39.14	13.82	55.22	-	-	P	H
		17955	50.85	-23.15	74	47.82	41.22	16.82	55.01	100	35	P	H
		17955	41.38	-12.62	54	38.35	41.22	16.82	55.01	100	35	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 07		11970	47.92	-26.08	74	50.18	39.14	13.82	55.22	-	-	P	V
5985MHz		17955	51.41	-22.59	74	48.38	41.22	16.82	55.01	100	182	P	V
		17955	41.91	-12.09	54	38.88	41.22	16.82	55.01	100	182	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	46.62	-27.38	74	48.25	39.05	14.14	54.82	-	-	P	H
		18675	37.21	-36.79	74	57.62	38.04	-2.99	55.46	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 55		12450	46.7	-27.3	74	48.33	39.05	14.14	54.82	-	-	P	V
6225MHz		18675	48.41	-25.59	74	68.82	38.04	-2.99	55.46	150	275	P	V
		18675	35.06	-18.94	54	55.47	38.04	-2.99	55.46	150	275	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	47.88	-40.32	88.2	48.49	39.57	14.35	54.53	-	-	P	H
		19155	51.26	-22.74	74	71.11	38.06	-2.77	55.14	150	276	P	V
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 87		19155	40.08	-13.92	54	59.93	38.06	-2.77	55.14	150	276	A	V
6385MHz		12770	46.64	-41.56	88.2	47.25	39.57	14.35	54.53	-	-	P	V
		19155	34.73	-39.27	74	54.58	38.06	-2.77	55.14	-	-	P	H
													V
													V
													V
													V
													V
													V
													V
													V
													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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 5 5925~6425MHz

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

WIFI Ant. 4+3	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)
		5908.75	74.36	-13.84	88.2	67.05	34.26	9.76	36.71	400	290	P	H
		5908.75	62.48	-5.72	68.2	55.17	34.26	9.76	36.71	400	290	A	H
	*	6025	97.45	-	-	90.1	34.15	9.9	36.7	400	290	P	H
	*	6025	89.56	-	-	82.21	34.15	9.9	36.7	400	290	P	H
802.11ax													H
HE160 Full													H
CH 15		5921.29	76.01	-12.19	88.2	68.74	34.21	9.77	36.71	100	245	P	V
6025MHz		5908.75	66.13	-2.07	68.2	58.82	34.26	9.76	36.71	100	245	A	V
	*	6025	105.45	-	-	98.1	34.15	9.9	36.7	100	245	P	V
	*	6025	95.01	-	-	87.66	34.15	9.9	36.7	100	245	P	V
													V
													V
		5918.28	53.91	-34.29	88.2	46.62	34.23	9.77	36.71	377	286	P	H
		5918.77	46	-22.2	68.2	38.72	34.22	9.77	36.71	377	286	A	H
	*	6185	100.26	-	-	92.65	34.2	10.03	36.62	377	286	P	H
	*	6185	90.92	-	-	83.31	34.2	10.03	36.62	377	286	P	H
802.11ax													H
HE160 Full													H
CH 47		5924.65	57.7	-30.5	88.2	50.43	34.2	9.78	36.71	100	234	P	V
6185MHz		5924.16	47.9	-20.3	68.2	40.63	34.2	9.78	36.71	100	234	A	V
	*	6185	105.26	-	-	97.65	34.2	10.03	36.62	100	234	P	V
	*	6185	95.87	-	-	88.26	34.2	10.03	36.62	100	234	P	V
													V
													V

WIFI Ant. 4+3	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)
		5887.05	48.96	-39.24	88.2	41.67	34.27	9.73	36.71	400	296	P	H
		5901.35	40.42	-27.78	68.2	33.09	34.29	9.75	36.71	400	296	A	H
	*	6345	98.97	-	-	90.78	34.68	10.05	36.54	400	296	P	H
	*	6345	90.49	-	-	82.3	34.68	10.05	36.54	400	296	P	H
802.11ax													H
HE160 Full													H
CH 79		5892.9	49.58	-38.62	88.2	42.26	34.29	9.74	36.71	100	184	P	V
6345MHz		5909.15	41.04	-27.16	68.2	33.73	34.26	9.76	36.71	100	184	A	V
	*	6345	102.15	-	-	93.96	34.68	10.05	36.54	100	184	P	V
	*	6345	93.71	-	-	85.52	34.68	10.05	36.54	100	184	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 HE80 Full (Harmonic @ 3m)

WIFI Ant. 4+3	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	45.5	-28.5	74	47.61	39.2	13.87	55.18	-	-	P	H
		18075	37.99	-36.01	74	59.69	37.62	-3.47	55.85	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 15		12050	45.86	-28.14	74	47.97	39.2	13.87	55.18	-	-	P	V
6025MHz		18075	38.59	-35.41	74	60.29	37.62	-3.47	55.85	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	45.26	-28.74	74	46.98	39.09	14.08	54.89	-	-	P	H
		18555	36.55	-37.45	74	57.28	37.94	-3.11	55.56	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 47		12370	45.84	-28.16	74	47.56	39.09	14.08	54.89	-	-	P	V
6185MHz		18555	38.78	-35.22	74	59.51	37.94	-3.11	55.56	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	45.4	-28.6	74	46.21	39.49	14.3	54.6	-	-	P	H
		19035	36.56	-37.44	74	56.43	38.01	-2.69	55.19	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 79		12690	46.31	-27.69	74	47.12	39.49	14.3	54.6	-	-	P	V
6345MHz		19035	50.78	-23.22	74	70.65	38.01	-2.69	55.19	150	274	P	V
		19035	39.96	-14.04	54	59.83	38.01	-2.69	55.19	150	274	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													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 802.11a (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.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 117 6535MHz	*	6535	106.63	-	-	97.76	35.21	10.15	36.49	100	300	P	H
	*	6535	99.23	-	-	90.36	35.21	10.15	36.49	100	300	A	H
		7211.42	52.27	-35.93	88.2	41.63	36.72	10.61	36.69	100	300	P	H
		7228.94	42.32	-25.88	68.2	31.62	36.76	10.63	36.69	100	300	A	H
													H
													H
	*	6535	112.87	-	-	104	35.21	10.15	36.49	100	236	P	V
	*	6535	105.38	-	-	96.51	35.21	10.15	36.49	100	236	A	V
		7185.14	51.82	-36.38	88.2	41.29	36.64	10.59	36.7	100	236	P	V
		7220.18	42.31	-25.89	68.2	31.64	36.74	10.62	36.69	100	236	A	V
													V
													V
802.11a CH 149 6695MHz	*	6695	107.9	-	-	98.27	35.88	10.32	36.57	400	299	P	H
	*	6695	100.81	-	-	91.18	35.88	10.32	36.57	400	299	A	H
		7167.62	52.4	-35.8	88.2	41.96	36.57	10.57	36.7	400	299	P	H
		7231.86	42.38	-25.82	68.2	31.67	36.76	10.64	36.69	400	299	A	H
													H
													H
	*	6695	114.44	-	-	104.81	35.88	10.32	36.57	100	233	P	V
	*	6695	107.06	-	-	97.43	35.88	10.32	36.57	100	233	A	V
		7237.7	52.4	-35.8	88.2	41.66	36.78	10.65	36.69	100	233	P	V
		7242.81	42.46	-25.74	68.2	31.71	36.79	10.65	36.69	100	233	A	V
													V
													V

WIFI Ant. 4+3	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	*	6855	106.09	-	-	96.69	35.6	10.45	36.65	400	307	P	H
	*	6855	99.36	-	-	89.96	35.6	10.45	36.65	400	307	A	H
		7217.055	51.45	-36.75	88.2	40.79	36.73	10.62	36.69	400	307	P	H
		7222.725	42.34	-25.86	68.2	31.65	36.75	10.63	36.69	400	307	A	H
													H
													H
	*	6855	112.15	-	-	102.75	35.6	10.45	36.65	100	211	P	V
	*	6855	105.19	-	-	95.79	35.6	10.45	36.65	100	211	A	V
		7129.17	52.5	-35.7	88.2	42.24	36.42	10.54	36.7	100	211	P	V
		7162.38	42.66	-25.54	68.2	32.24	36.55	10.57	36.7	100	211	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 Ant. 4+3	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 117 6535MHz		13070	46.17	-42.03	88.2	46.32	39.59	14.56	54.3	-	-	P	H
		19605	59.61	-14.39	74	79.81	37.74	-2.96	54.98	150	162	P	H
		19605	43.82	-10.18	54	64.02	37.74	-2.96	54.98	150	162	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		13070	47.25	-40.95	88.2	47.4	39.59	14.56	54.3	-	-	P	V
		19605	65.64	-8.36	74	85.84	37.74	-2.96	54.98	150	275	P	V
		19605	49.66	-4.34	54	69.86	37.74	-2.96	54.98	150	275	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	49.5	-24.5	74	48.88	40.07	14.78	54.23	100	87	P	H
		13390	41.06	-12.94	54	40.44	40.07	14.78	54.23	100	87	A	H
		20085	59.83	-14.17	74	80.2	37.6	-3.07	54.9	150	162	P	H
		20085	45.78	-8.22	54	66.15	37.6	-3.07	54.9	150	162	A	H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 149 6695MHz													H
		13390	50.63	-23.37	74	50.01	40.07	14.78	54.23	100	181	P	V
		13390	42.38	-11.62	54	41.76	40.07	14.78	54.23	100	181	A	V
		20085	63.65	-10.35	74	84.02	37.6	-3.07	54.9	150	46	P	V
		20085	49.62	-4.38	54	69.99	37.6	-3.07	54.9	150	46	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	48.51	-39.69	88.2	47.65	39.99	14.99	54.12	-	-	P	H
		20565	49.57	-24.43	74	70.5	37.95	-3.99	54.89	150	262	P	H
		20565	36.69	-17.31	54	57.62	37.95	-3.99	54.89	150	262	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 181 6855MHz		13710	49.3	-38.9	88.2	48.44	39.99	14.99	54.12	-	-	P	V
		20565	58.91	-15.09	74	79.84	37.95	-3.99	54.89	150	59	P	V
		20565	45.07	-8.93	54	66	37.95	-3.99	54.89	150	59	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													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 (Band Edge @ 3m)

WIFI Ant. 4+3	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)
	*	6535	108.03	-	-	99.16	35.21	10.15	36.49	100	300	P	H
	*	6535	98.7	-	-	89.83	35.21	10.15	36.49	100	300	A	H
		7207.77	52.52	-35.68	88.2	41.89	36.72	10.61	36.7	100	300	P	H
		7237.7	42.23	-25.97	68.2	31.49	36.78	10.65	36.69	100	300	A	H
802.11ax													H
HE20 Full													H
CH 117	*	6535	112.52	-	-	103.65	35.21	10.15	36.49	100	236	P	V
6535MHz	*	6535	103.84	-	-	94.97	35.21	10.15	36.49	100	236	A	V
		7175.65	52.65	-35.55	88.2	42.17	36.6	10.58	36.7	100	236	P	V
		7231.13	42.29	-25.91	68.2	31.58	36.76	10.64	36.69	100	236	A	V
													V
													V
	*	6695	107.74	-	-	98.11	35.88	10.32	36.57	400	299	P	H
	*	6695	98.35	-	-	88.72	35.88	10.32	36.57	400	299	A	H
		7238.43	52.42	-35.78	88.2	41.68	36.78	10.65	36.69	400	299	P	H
		7231.13	42.28	-25.92	68.2	31.57	36.76	10.64	36.69	400	299	A	H
802.11ax													H
HE20 Full													H
CH 149	*	6695	112.82	-	-	103.19	35.88	10.32	36.57	100	233	P	V
6695MHz	*	6695	104.19	-	-	94.56	35.88	10.32	36.57	100	233	A	V
		7180.03	51.62	-36.58	88.2	41.12	36.62	10.58	36.7	100	233	P	V
		7242.81	42.36	-25.84	68.2	31.61	36.79	10.65	36.69	100	233	A	V
													V
													V

WIFI Ant. 4+3	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)
	*	6855	106.33	-	-	96.93	35.6	10.45	36.65	400	307	P	H
	*	6855	97.18	-	-	87.78	35.6	10.45	36.65	400	307	A	H
		7221.105	51.97	-36.23	88.2	41.29	36.74	10.63	36.69	400	307	P	H
		7214.625	42.53	-25.67	68.2	31.87	36.73	10.62	36.69	400	307	A	H
802.11ax													H
HE20 Full													H
CH 181	*	6855	111.57	-	-	102.17	35.6	10.45	36.65	100	211	P	V
6855MHz	*	6855	103.07	-	-	93.67	35.6	10.45	36.65	100	211	A	V
		7180.605	52.61	-35.59	88.2	42.11	36.62	10.58	36.7	100	211	P	V
		7177.365	42.54	-25.66	68.2	32.05	36.61	10.58	36.7	100	211	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 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 4+3	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	47.23	-40.97	88.2	47.38	39.59	14.56	54.3	-	-	P	H
		19605	57.92	-16.08	74	78.12	37.74	-2.96	54.98	150	162	P	H
		19605	43.55	-10.45	54	63.75	37.74	-2.96	54.98	150	162	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 117		13070	46.9	-41.3	88.2	47.05	39.59	14.56	54.3	-	-	P	V
6535MHz		19605	64	-10	74	84.2	37.74	-2.96	54.98	150	276	P	V
		19605	49.56	-4.44	54	69.76	37.74	-2.96	54.98	150	276	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	47.87	-26.13	74	47.25	40.07	14.78	54.23	-	-	P	H
		20085	58.45	-15.55	74	78.82	37.6	-3.07	54.9	150	159	P	H
		20085	43.38	-10.62	54	63.75	37.6	-3.07	54.9	150	159	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 149		13390	47.74	-26.26	74	47.12	40.07	14.78	54.23	-	-	P	V
6695MHz		20085	64.46	-9.54	74	84.83	37.6	-3.07	54.9	150	276	P	V
		20085	49.17	-4.83	54	69.54	37.6	-3.07	54.9	150	276	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	48.36	-39.84	88.2	47.5	39.99	14.99	54.12	-	-	P	H
		20565	49.56	-24.44	74	70.49	37.95	-3.99	54.89	150	166	P	H
		20565	36.78	-17.22	54	57.71	37.95	-3.99	54.89	150	166	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 181		13710	48.65	-39.55	88.2	47.79	39.99	14.99	54.12	-	-	P	V
6855MHz		20565	60.55	-13.45	74	81.48	37.95	-3.99	54.89	150	59	P	V
		20565	46.65	-7.35	54	67.58	37.95	-3.99	54.89	150	59	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													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 (Band Edge @ 3m)

WIFI Ant. 4+3	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)
	*	6565	102.13	-	-	93.07	35.39	10.17	36.5	400	279	P	H
	*	6565	93.2	-	-	84.14	35.39	10.17	36.5	400	279	A	H
		7229.6	51.01	-37.19	88.2	40.3	36.76	10.64	36.69	400	279	P	H
		7233.8	42.1	-26.1	68.2	31.38	36.77	10.64	36.69	400	279	A	H
802.11ax													H
HE40 Full													H
CH 123	*	6565	108.87	-	-	99.81	35.39	10.17	36.5	126	236	P	V
6565MHz	*	6565	99.74	-	-	90.68	35.39	10.17	36.5	126	236	A	V
		7220.5	51.24	-36.96	88.2	40.57	36.74	10.62	36.69	126	236	P	V
		7238.7	42.12	-26.08	68.2	31.38	36.78	10.65	36.69	126	236	A	V
													V
													V
	*	6685	103.88	-	-	94.29	35.84	10.31	36.56	397	253	P	H
	*	6685	93.5	-	-	83.91	35.84	10.31	36.56	397	253	A	H
		7188.3	51.56	-36.64	88.2	41.02	36.65	10.59	36.7	397	253	P	H
		7243.6	42.08	-26.12	68.2	31.33	36.79	10.65	36.69	397	253	A	H
802.11ax													H
HE40 Full													H
CH 147	*	6685	108.96	-	-	99.37	35.84	10.31	36.56	100	181	P	V
6685MHz	*	6685	99.14	-	-	89.55	35.84	10.31	36.56	100	181	A	V
		7137.9	51.8	-36.4	88.2	41.5	36.45	10.55	36.7	100	181	P	V
		7239.4	42.24	-25.96	68.2	31.5	36.78	10.65	36.69	100	181	A	V
													V
													V

WIFI Ant. 4+3	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)
	*	6845	99.51	-	-	90.07	35.63	10.45	36.64	398	285	P	H
	*	6845	90.44	-	-	81	35.63	10.45	36.64	398	285	A	H
		7244.585	51.74	-36.46	88.2	40.99	36.79	10.65	36.69	398	285	P	H
		7245	42.08	-26.12	68.2	31.33	36.79	10.65	36.69	398	285	A	H
802.11ax													H
HE40 Full													H
CH 179	*	6845	108.74	-	-	99.3	35.63	10.45	36.64	100	211	P	V
6845MHz	*	6845	99.03	-	-	89.59	35.63	10.45	36.64	100	211	A	V
		7240.85	51.49	-36.71	88.2	40.75	36.78	10.65	36.69	100	211	P	V
		7239.19	42.31	-25.89	68.2	31.57	36.78	10.65	36.69	100	211	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 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 4+3	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	45.99	-42.21	88.2	46.09	39.59	14.6	54.29	-	-	P	H
		19695	56.69	-17.31	74	76.81	37.78	-2.94	54.96	150	162	P	H
		19695	40.84	-13.16	54	60.96	37.78	-2.94	54.96	150	162	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 123		13130	46.33	-41.87	88.2	46.43	39.59	14.6	54.29	-	-	P	V
6565MHz		19695	60.54	-13.46	74	80.66	37.78	-2.94	54.96	150	276	P	V
		19695	45.99	-8.01	54	66.11	37.78	-2.94	54.96	150	276	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	47.45	-26.55	74	46.91	40.01	14.76	54.23	-	-	P	H
		20055	47.83	-26.17	74	68.15	37.57	-2.99	54.9	150	162	P	H
		20055	39.02	-14.98	54	59.34	37.57	-2.99	54.9	150	162	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 147		13370	47.64	-26.36	74	47.1	40.01	14.76	54.23	-	-	P	V
6685MHz		20055	58.81	-15.19	74	79.13	37.57	-2.99	54.9	150	47	P	V
		20055	47.14	-6.86	54	67.46	37.57	-2.99	54.9	150	47	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	48.93	-39.27	88.2	48.06	40.01	14.98	54.12	-	-	P	H
		20535	39.47	-34.53	74	60.44	37.97	-4.05	54.89			P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 179		13690	47.79	-40.41	88.2	46.92	40.01	14.98	54.12	-	-	P	V
6845MHz		20535	52.64	-21.36	74	73.61	37.97	-4.05	54.89	150	59	P	V
		20535	39.8	-14.2	54	60.77	37.97	-4.05	54.89	150	59	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													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 HE80 Full (Band Edge @ 3m)

WIFI Ant. 4+3	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)
	*	6625	100.2	-	-	90.85	35.65	10.23	36.53	400	253	P	H
	*	6625	91.03	-	-	81.68	35.65	10.23	36.53	400	253	A	H
		7184.37	51.74	-36.46	88.2	41.21	36.64	10.59	36.7	400	253	P	H
		7242.42	42.75	-25.45	68.2	32.01	36.78	10.65	36.69	400	253	A	H
802.11ax													H
HE80 Full													H
CH 135	*	6625	105.77	-	-	96.42	35.65	10.23	36.53	100	241	P	V
6625MHz	*	6625	96.93	-	-	87.58	35.65	10.23	36.53	100	241	A	V
		7232.1	51.61	-36.59	88.2	40.9	36.76	10.64	36.69	100	241	P	V
		7235.97	42.93	-25.27	68.2	32.21	36.77	10.64	36.69	100	241	A	V
													V
													V
	*	6705	99.35	-	-	89.68	35.91	10.33	36.57	359	257	P	H
	*	6705	91.13	-	-	81.46	35.91	10.33	36.57	359	257	A	H
		7237.16	51.28	-36.92	88.2	40.56	36.77	10.64	36.69	359	257	P	H
		7160.44	43.11	-25.09	68.2	32.7	36.54	10.57	36.7	359	257	A	H
802.11ax													H
HE80 Full													H
CH 151	*	6705	105.97	-	-	96.3	35.91	10.33	36.57	100	171	P	V
6705MHz	*	6705	96.55	-	-	86.88	35.91	10.33	36.57	100	171	A	V
		7237.72	52.48	-35.72	88.2	41.74	36.78	10.65	36.69	100	171	P	V
		7179.48	42.75	-25.45	68.2	32.25	36.62	10.58	36.7	100	171	A	V
													V
													V

WIFI Ant. 4+3	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)
	*	6785	99.06	-	-	89.31	35.93	10.43	36.61	398	303	P	H
	*	6785	89.21	-	-	79.46	35.93	10.43	36.61	398	303	A	H
		7227.85	51.41	-36.79	88.2	40.71	36.76	10.63	36.69	398	303	P	H
		7236.67	42.97	-25.23	68.2	32.25	36.77	10.64	36.69	398	303	A	H
802.11ax													H
HE80 Full													H
CH 167	*	6785	107.49	-	-	97.74	35.93	10.43	36.61	100	211	P	V
6785MHz	*	6785	96.49	-	-	86.74	35.93	10.43	36.61	100	211	A	V
		7181.3	51.81	-36.39	88.2	41.29	36.63	10.59	36.7	100	211	P	V
		7244.02	43.27	-24.93	68.2	32.52	36.79	10.65	36.69	100	211	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 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 4+3	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	47.94	-26.06	74	47.72	39.8	14.68	54.26	-	-	P	H
		19875	47.71	-26.29	74	67.87	37.65	-2.88	54.93	150	162	P	H
		19875	39.54	-14.46	54	59.7	37.65	-2.88	54.93	150	162	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 135		13250	47.18	-26.82	74	46.96	39.8	14.68	54.26	-	-	P	V
6625MHz		19875	53.58	-20.42	74	73.74	37.65	-2.88	54.93	150	49	P	V
		19875	45.37	-8.63	54	65.53	37.65	-2.88	54.93	150	49	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	47.28	-40.92	88.2	46.62	40.09	14.79	54.22	-	-	P	H
		20115	46.3	-27.7	74	66.7	37.64	-3.14	54.9	150	163	P	H
		20115	37.77	-16.23	54	58.17	37.64	-3.14	54.9	150	163	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 151		13410	47.92	-40.28	88.2	47.26	40.09	14.79	54.22	-	-	P	V
6705MHz		20115	52.18	-21.82	74	72.58	37.64	-3.14	54.9	150	48	P	V
		20115	43.8	-10.2	54	64.2	37.64	-3.14	54.9	150	48	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 4+3	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	47.98	-40.22	88.2	47.19	40.07	14.89	54.17	-	-	P	H
		20355	41.03	-32.97	74	61.8	37.88	-3.75	54.9	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 167		13570	46.84	-41.36	88.2	46.05	40.07	14.89	54.17	-	-	P	V
6785MHz		20355	48.66	-25.34	74	69.43	37.88	-3.75	54.9	150	47	P	V
		20355	40	-14	54	60.77	37.88	-3.75	54.9	150	47	A	V
													V
													V
													V
													V
													V
													V
													V
													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 (Band Edge @ 3m)

WIFI Ant. 4+3	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)
	*	6665	99.22	-	-	89.73	35.76	10.28	36.55	399	227	P	H
	*	6665	89.89	-	-	80.4	35.76	10.28	36.55	399	227	P	H
		7193.8	53.07	-35.13	88.2	42.49	36.68	10.6	36.7	399	227	P	H
		7225	42.77	-25.43	68.2	32.08	36.75	10.63	36.69	399	227	A	H
802.11ax													H
HE160 Full													H
CH 143	*	6665	103.01	-	-	93.52	35.76	10.28	36.55	100	209	P	V
6665MHz	*	6665	93.77	-	-	84.28	35.76	10.28	36.55	100	209	P	V
		7176.9	52.5	-35.7	88.2	42.01	36.61	10.58	36.7	100	209	P	V
		7172.35	43.03	-25.17	68.2	32.56	36.59	10.58	36.7	100	209	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 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 4+3	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	45.68	-28.32	74	45.3	39.89	14.73	54.24	-	-	P	H
		19995	47.93	-26.07	74	68.17	37.51	-2.85	54.9	150	163	P	H
		19995	40.05	-13.95	54	60.29	37.51	-2.85	54.9	150	163	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 143		13330	45.87	-28.13	74	45.49	39.89	14.73	54.24	-	-	P	V
6665MHz		19995	54.32	-19.68	74	74.56	37.51	-2.85	54.9	150	48	P	V
		19995	45.88	-8.12	54	66.12	37.51	-2.85	54.9	150	48	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													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.

Emission below 1GHz

WIFI 802.11ax HE40 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.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE40 Full LF		51.34	24.42	-15.58	40	42.49	13.6	0.9	32.57	-	-	P	H
		120.21	27.64	-15.86	43.5	41.63	17.23	1.31	32.53	-	-	P	H
		163.86	24.92	-18.58	43.5	39.64	16.13	1.61	32.46	-	-	P	H
		359.8	27.3	-18.7	46	36.91	20.58	2.26	32.45	-	-	P	H
		704.15	32.28	-13.72	46	35.16	26.32	3.19	32.39	-	-	P	H
		885.54	38.25	-7.75	46	37.52	28.72	3.65	31.64	-	-	P	H
		38.73	33.9	-6.1	40	45.49	20.15	0.79	32.53	-	-	P	V
		51.34	33.8	-6.2	40	51.87	13.6	0.9	32.57	-	-	P	V
		120.21	28.03	-15.47	43.5	42.02	17.23	1.31	32.53	-	-	P	V
		359.8	34.23	-11.77	46	43.84	20.58	2.26	32.45	-	-	P	V
		704.15	33.57	-12.43	46	36.45	26.32	3.19	32.39	-	-	P	V
		960.23	35.89	-18.11	54	32.22	30.95	3.85	31.13	-	-	P	V
													V
													V
													V
													V
													V
													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 **over limit** 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.	
4+3		(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) – 74(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) – 54(dBμV/m)

= -24.66(dB)

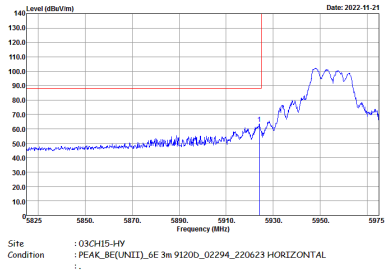
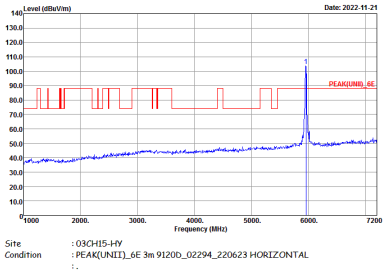
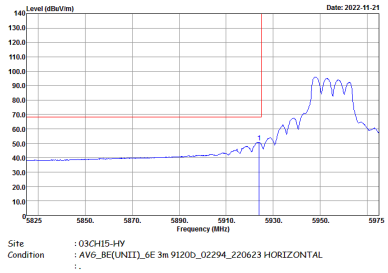
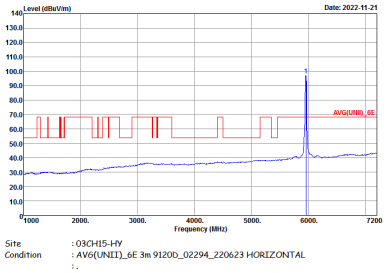
Both peak and average measured complies with the limit line, so test result is "PASS".

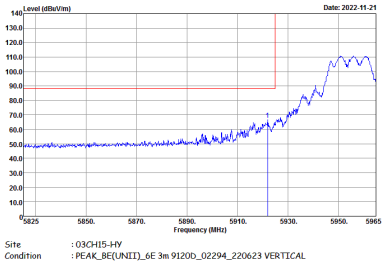
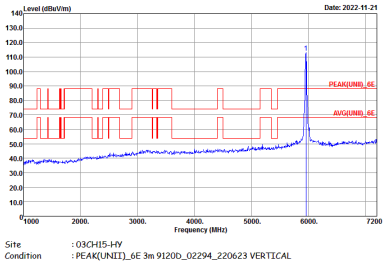
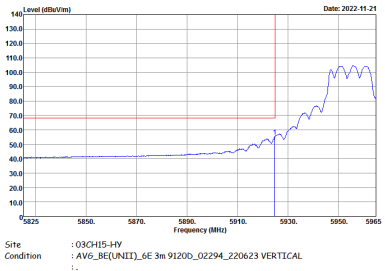
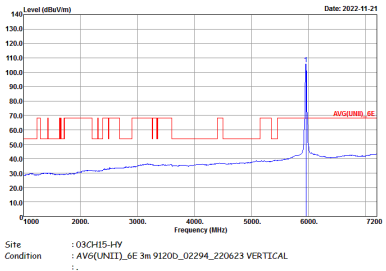
Appendix D. Radiated Spurious Emission

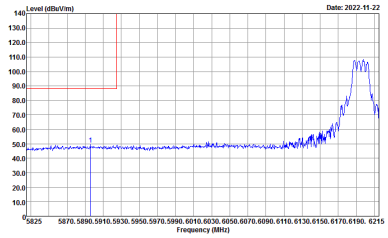
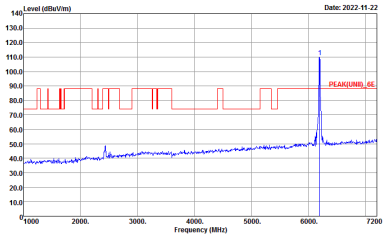
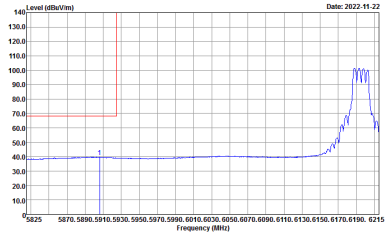
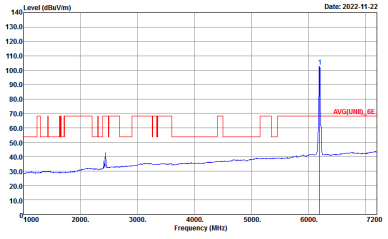
Test Engineer :	Eric Xiao, Bigshow Wang and Quentin Liu	**Temperature :**	21~26°C
		Relative Humidity :	45~60%

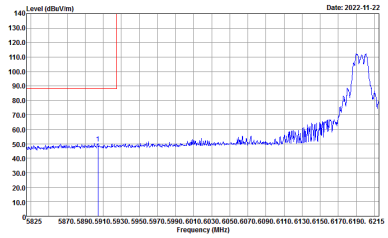
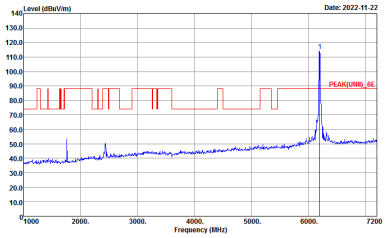
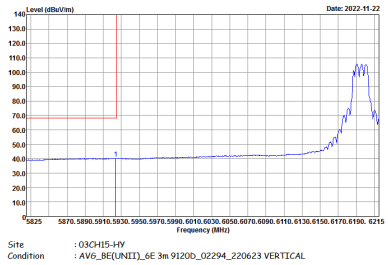
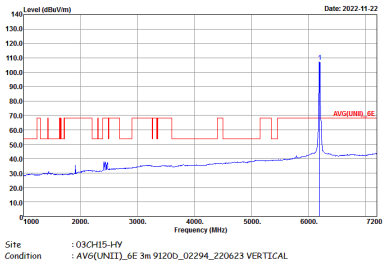
Band 5 - 5925~6425MHz

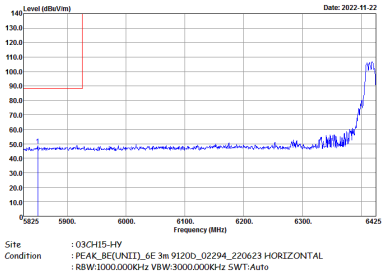
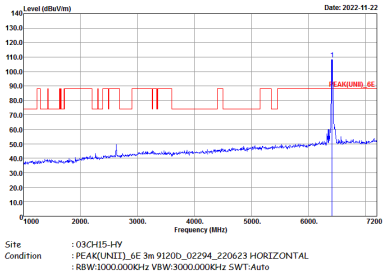
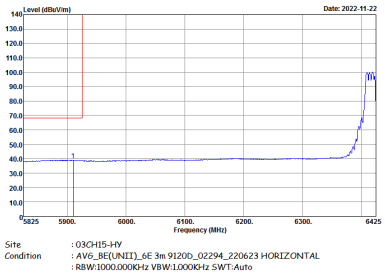
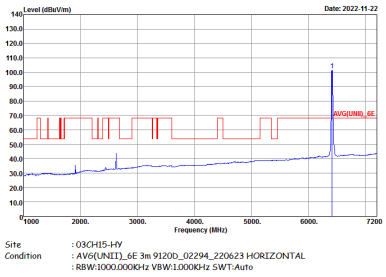
WIFI 802.11a (Band Edge @ 3m)

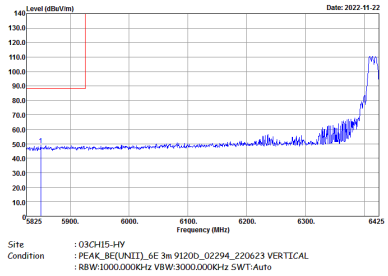
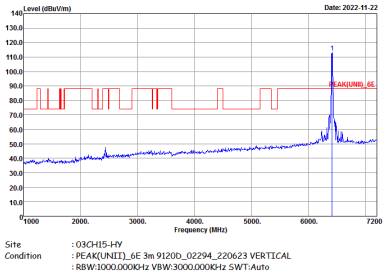
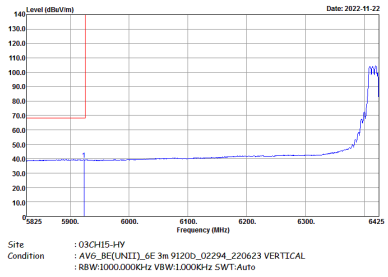
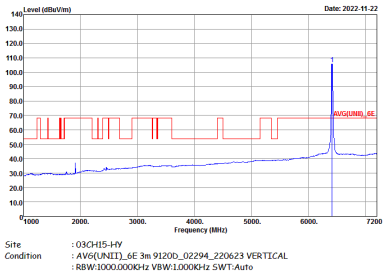
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH01 5955MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH01 5955MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH49 6195MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		

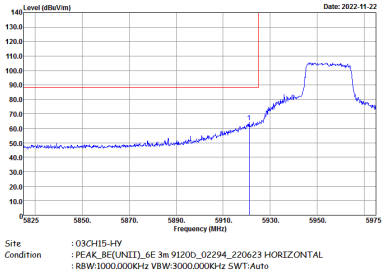
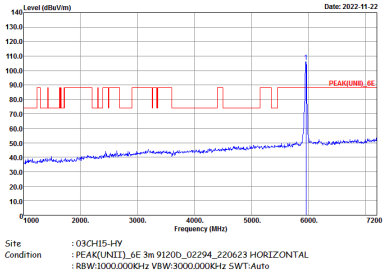
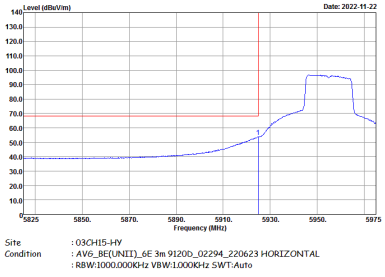
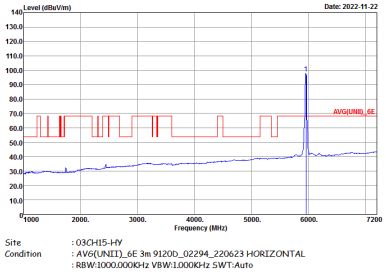
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH49 6195MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		

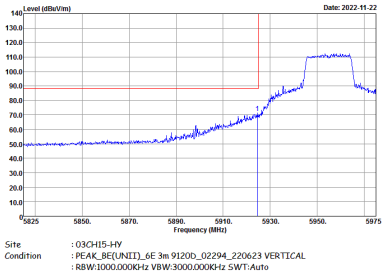
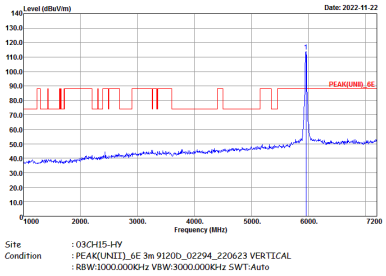
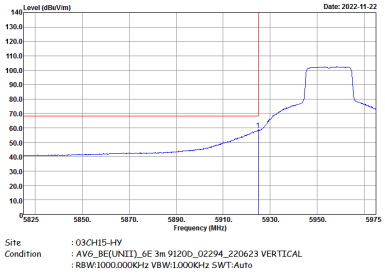
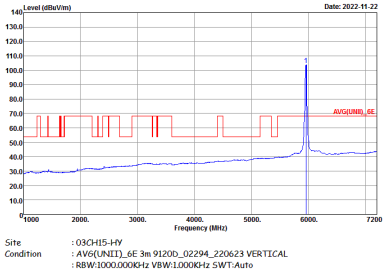
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH93 6415MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		

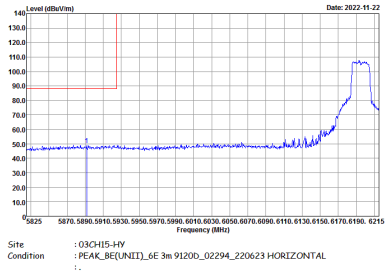
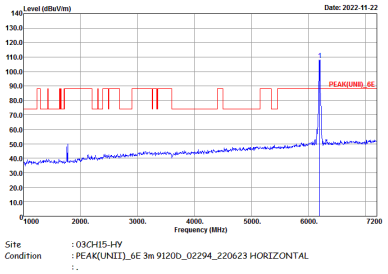
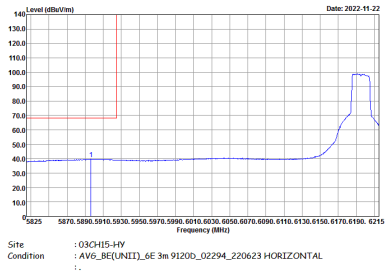
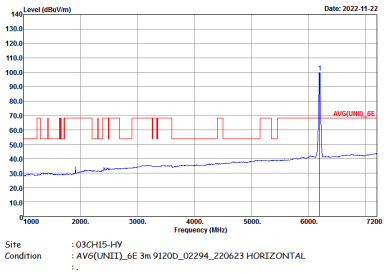
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH93 6415MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		

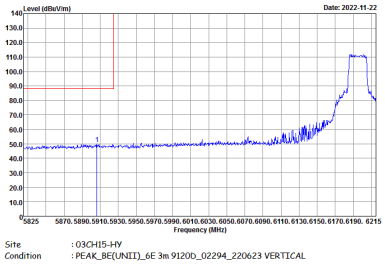
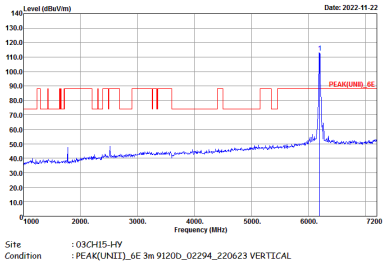
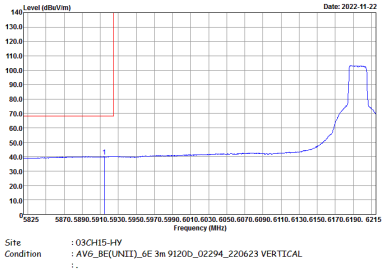
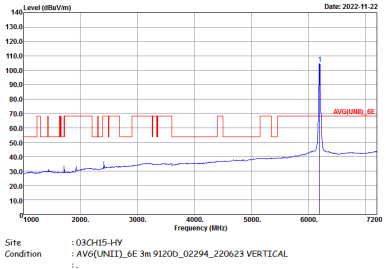
Band 5 5925~6425MHz

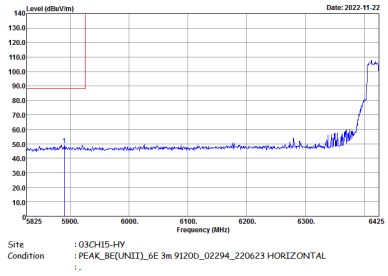
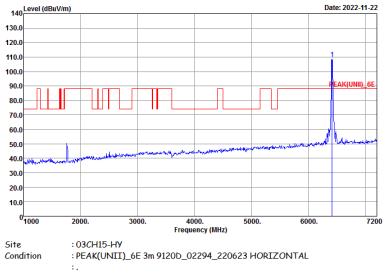
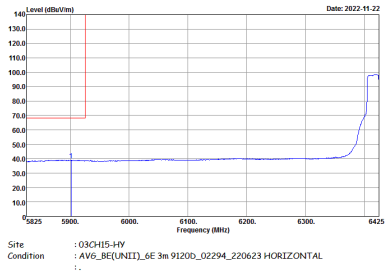
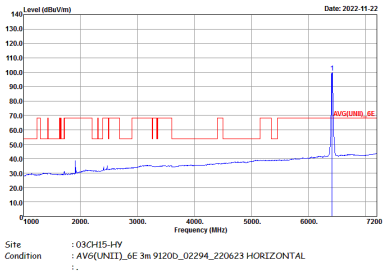
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

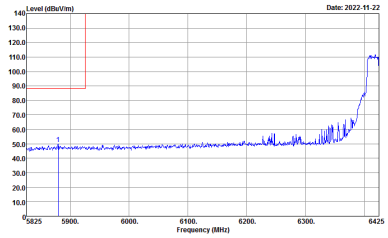
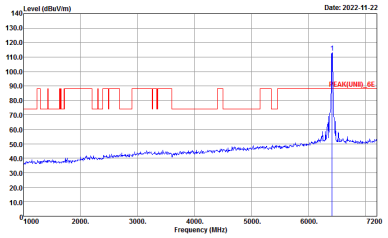
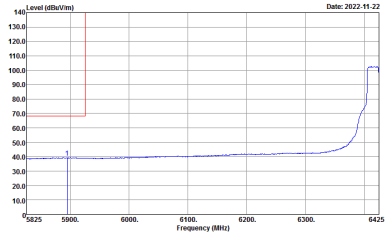
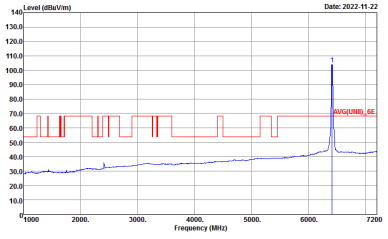
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH49 6195MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		

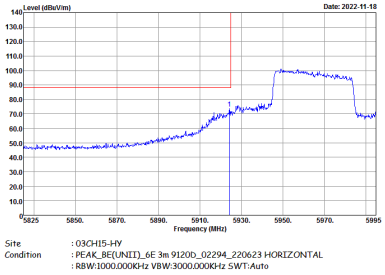
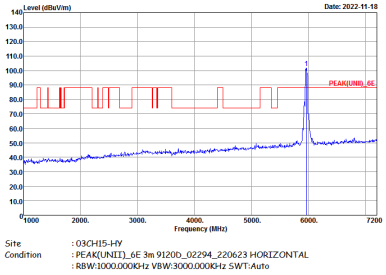
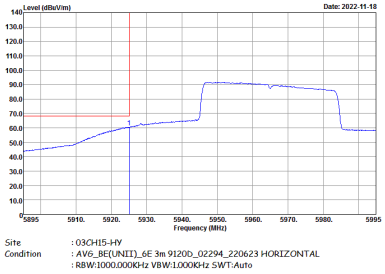
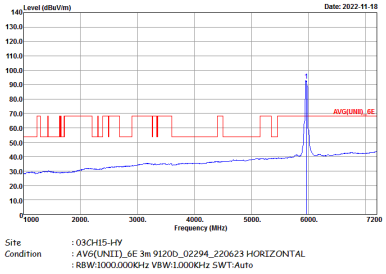
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH49 6195MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		

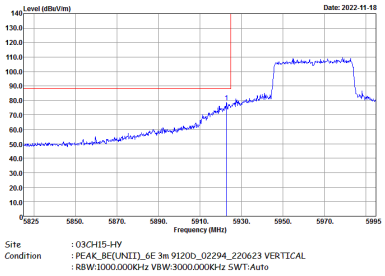
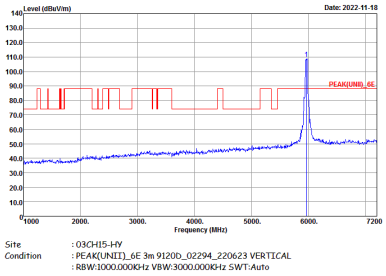
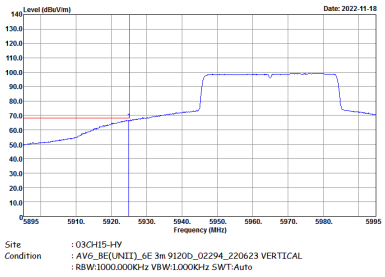
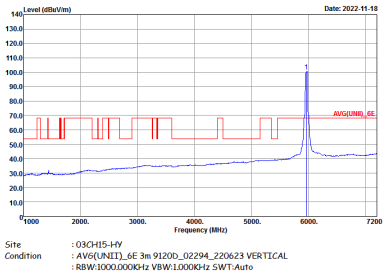
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH93 6415MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		

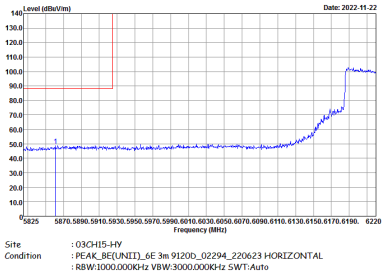
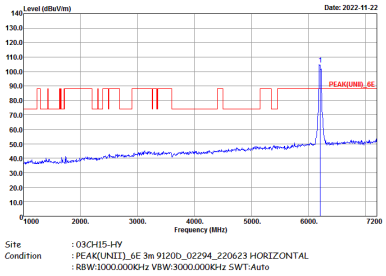
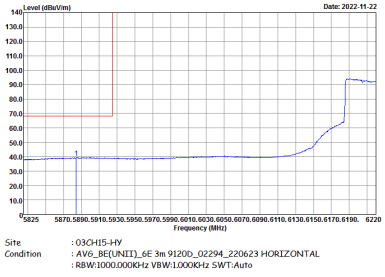
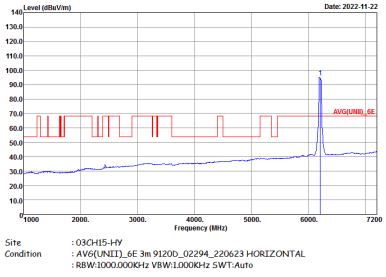
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH93 6415MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		

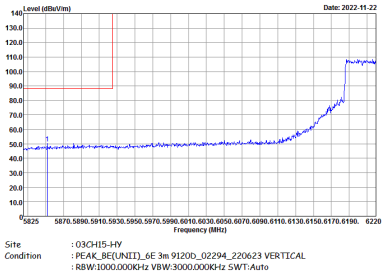
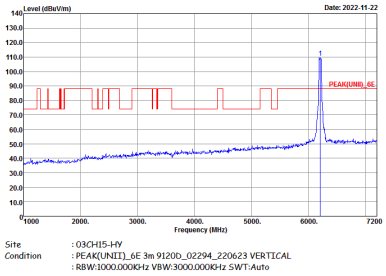
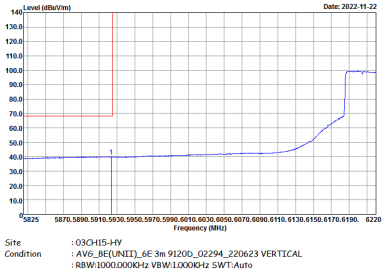
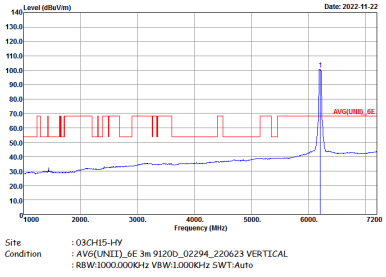
Band 5 5925~6425MHz

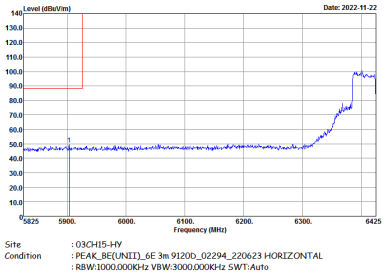
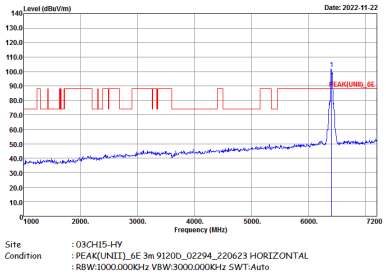
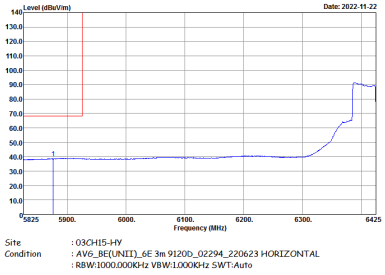
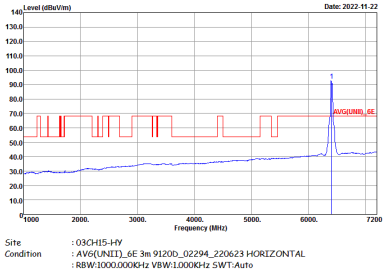
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

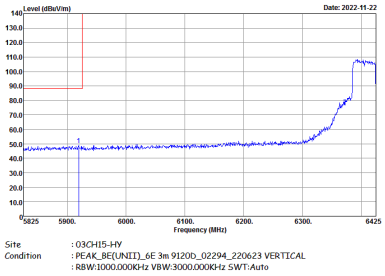
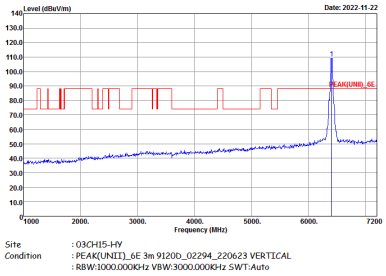
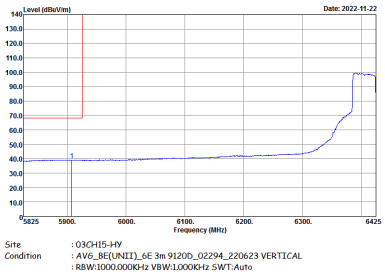
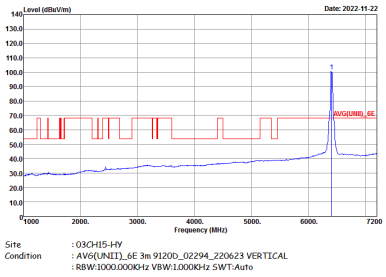
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AV6_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AV6(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH51 6205MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_6E 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AV6_BE(UNII)_6E 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AV6(UNII)_6E 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

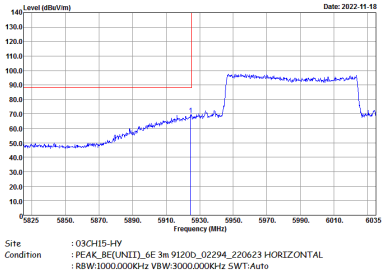
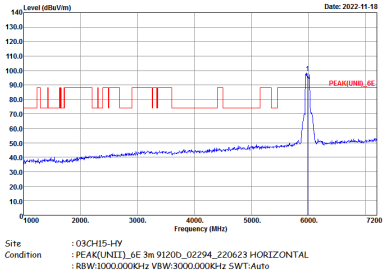
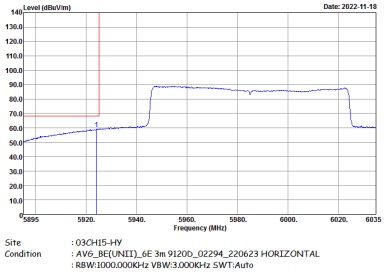
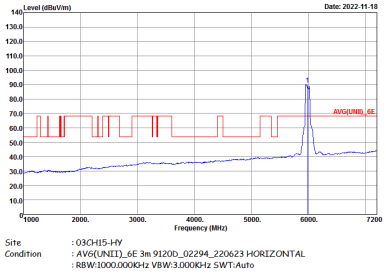
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH51 6205MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AV6_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AV6(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

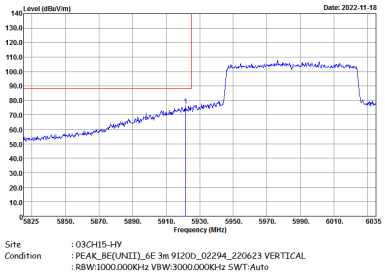
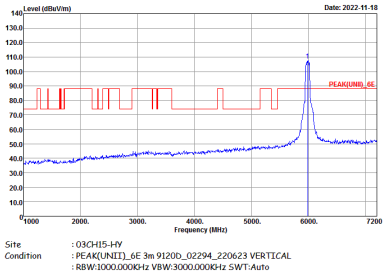
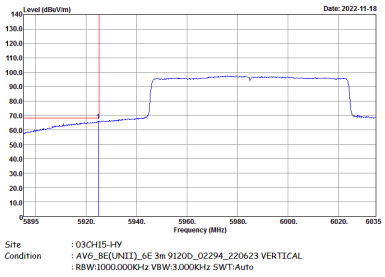
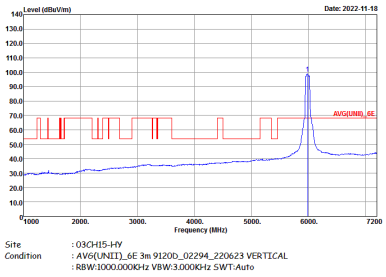
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH91 6405MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		

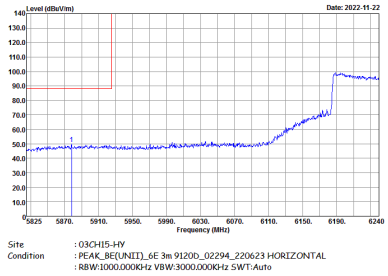
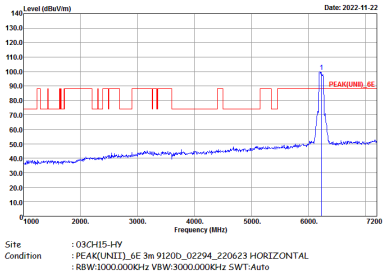
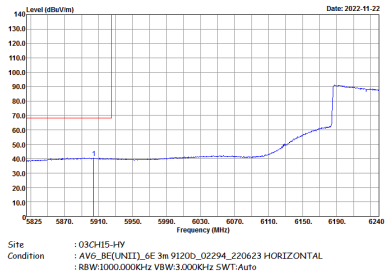
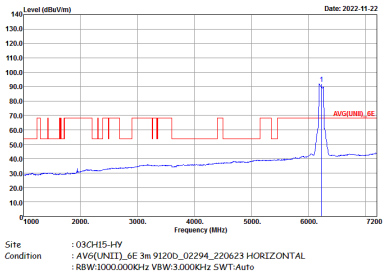
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH91 6405MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		

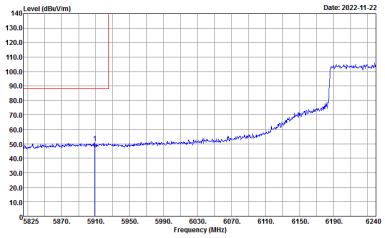
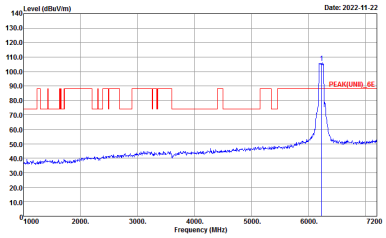
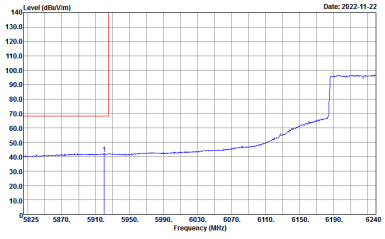
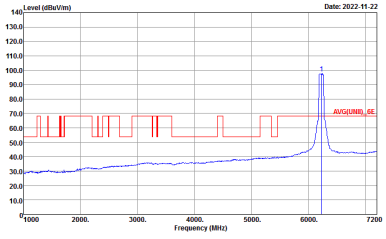
Band 5 5925~6425MHz

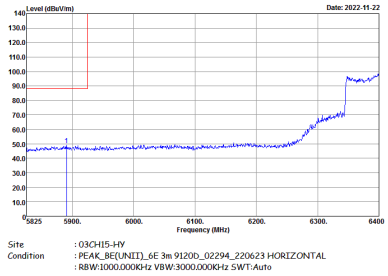
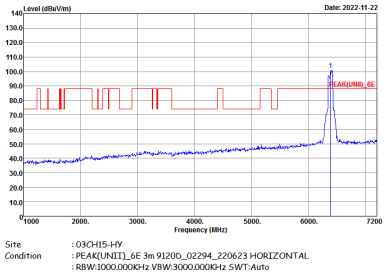
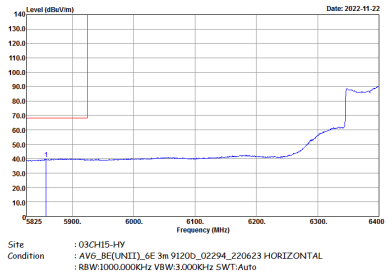
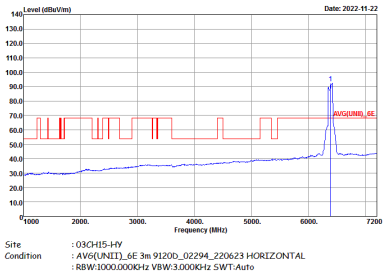
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

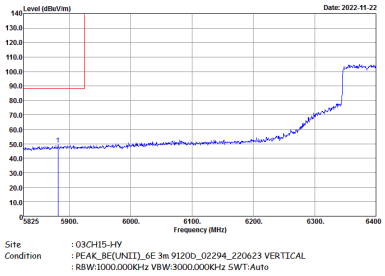
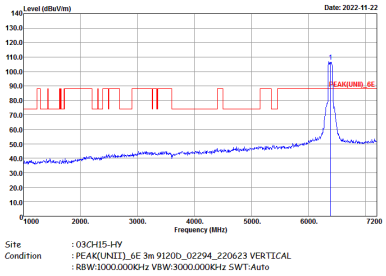
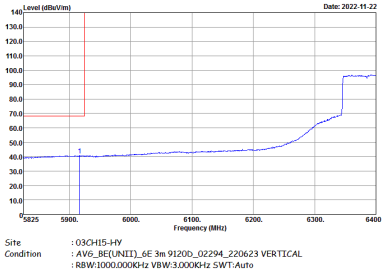
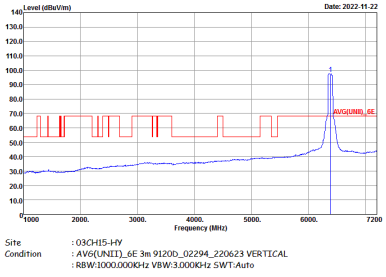
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH07 5985MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH07 5985MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AV6_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AV6(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH55 6225MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_6E 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AV6_BE(UNII)_6E 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AV6(UNII)_6E 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

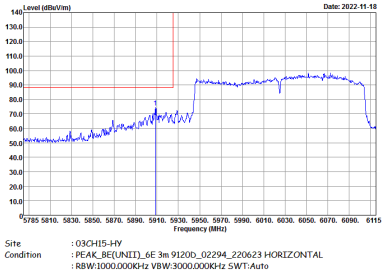
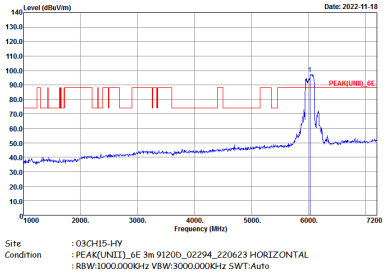
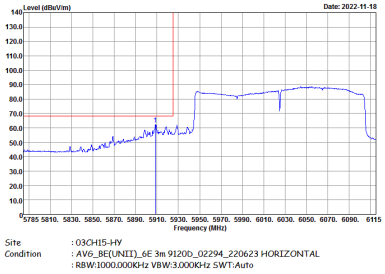
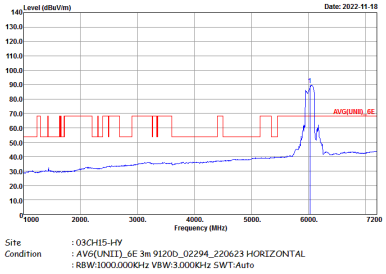
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH55 6225MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AV6_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AV6(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

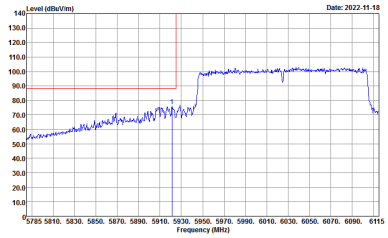
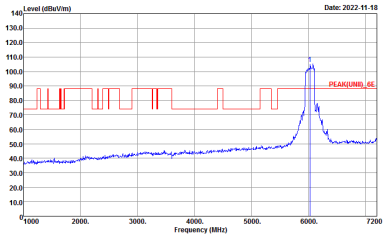
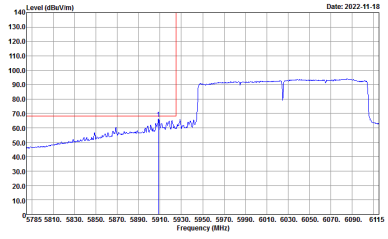
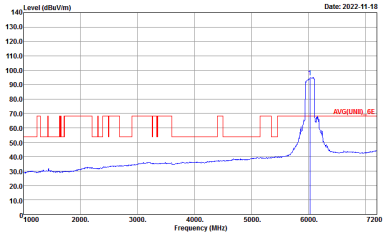
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH87 6385MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		

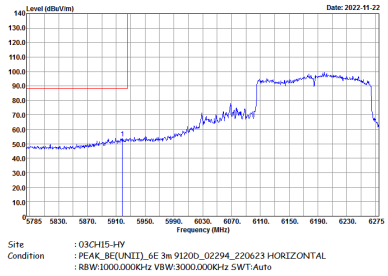
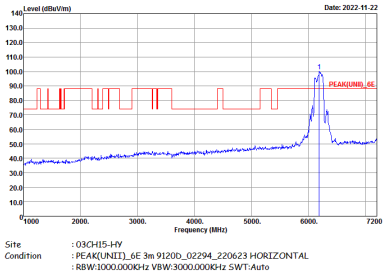
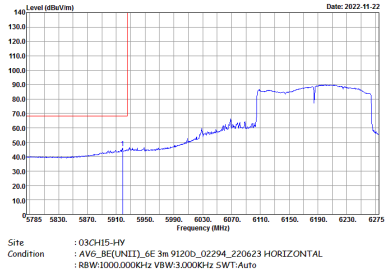
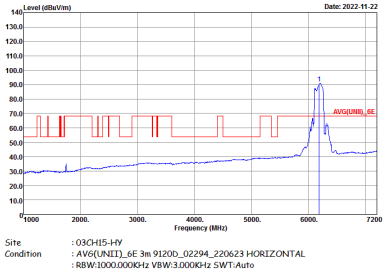
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH87 6385MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AV6_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AV6(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

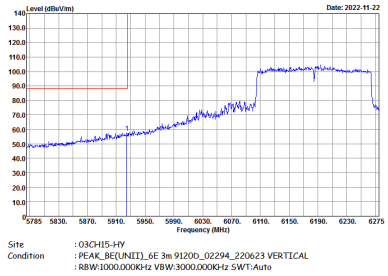
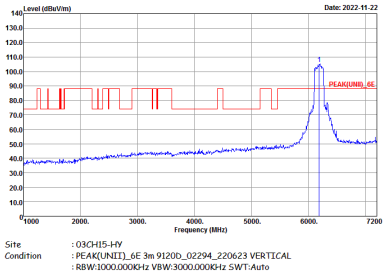
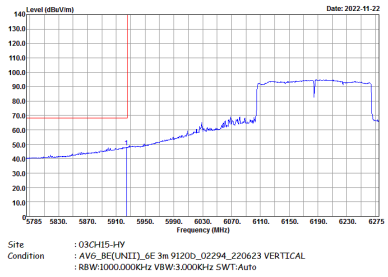
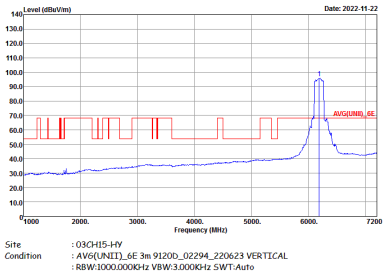
Band 5 5925~6425MHz

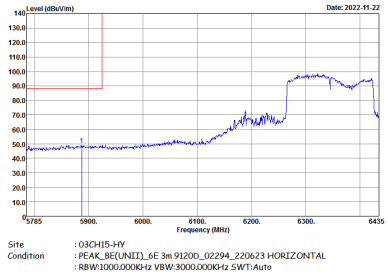
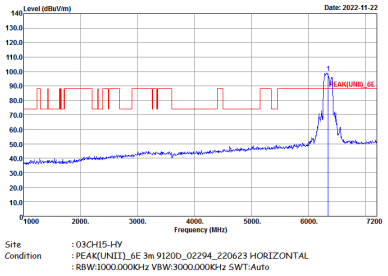
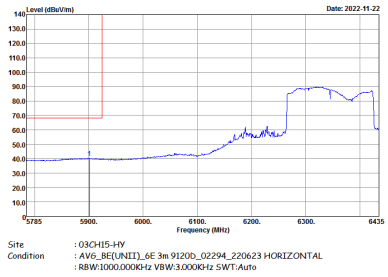
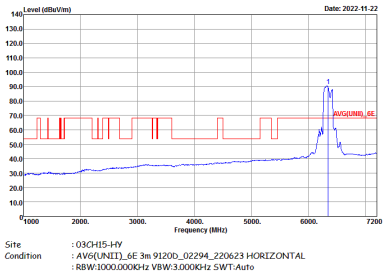
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

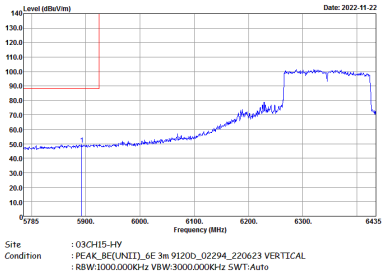
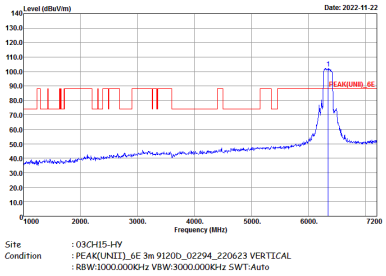
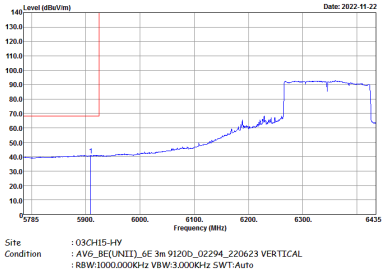
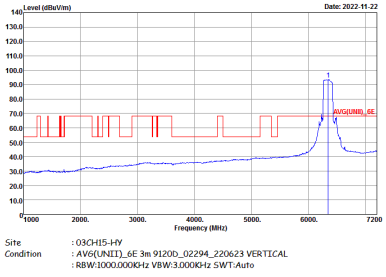
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AV6_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AV6(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH47 6185MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		

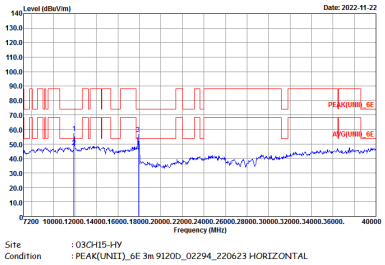
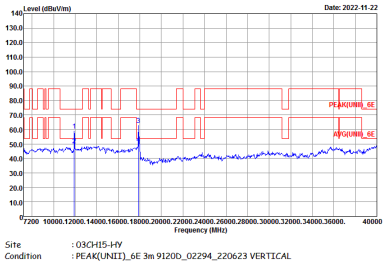
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH47 6185MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AV6_BE(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AV6(UNII)_6E 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

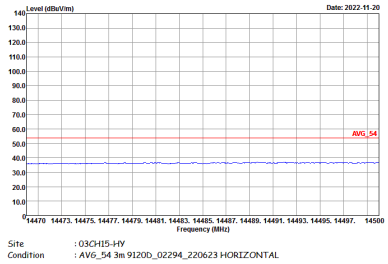
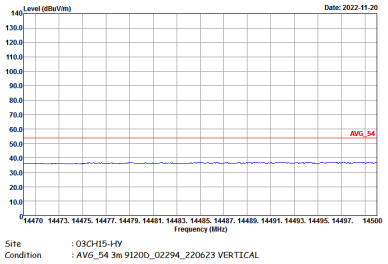
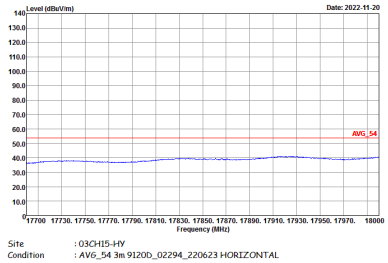
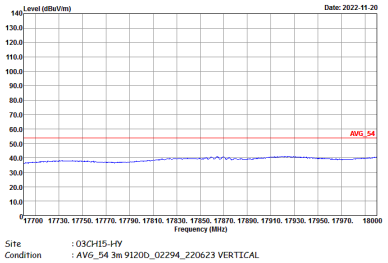
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH79 6345MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		

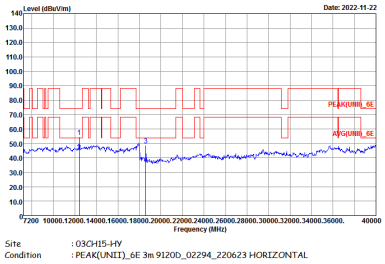
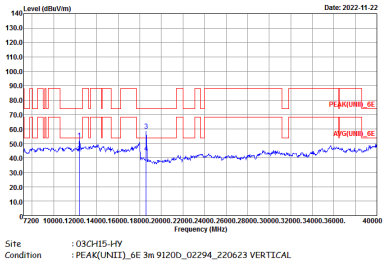
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH79 6345MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		

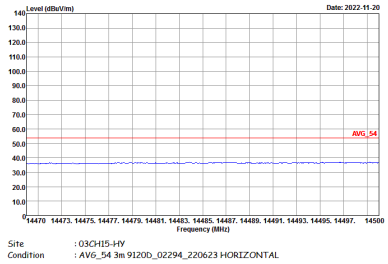
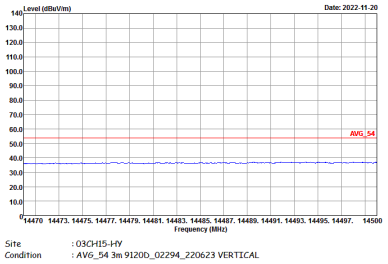
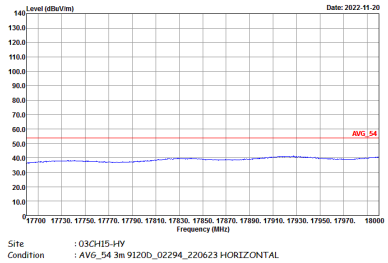
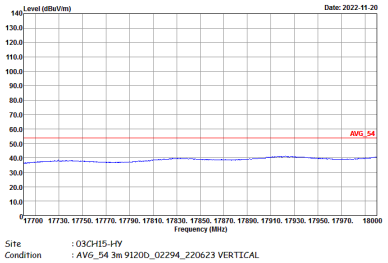
Band 5 - 5925~6425MHz

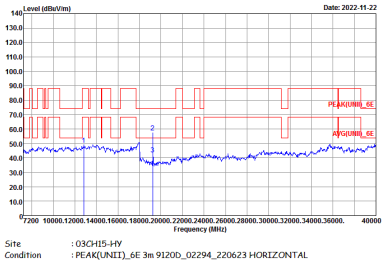
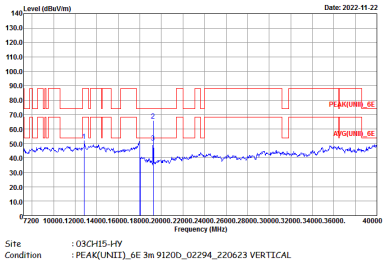
WIFI 802.11a (Harmonic @ 3m)

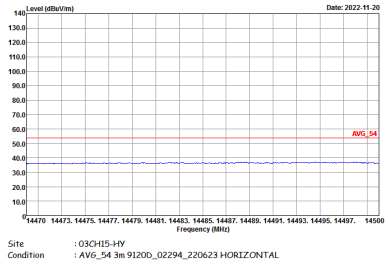
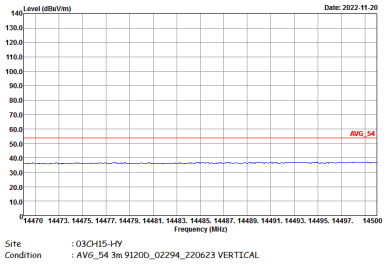
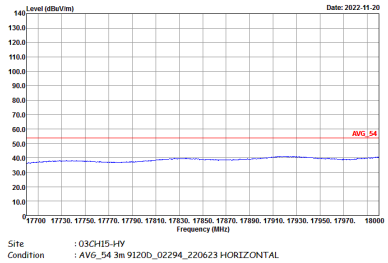
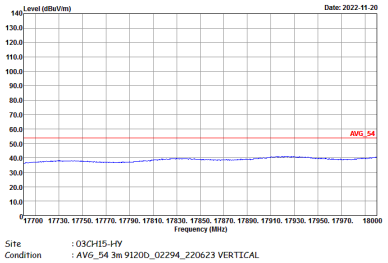
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11a CH01 5955MHz	
4+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11a CH01 5955MHz	
4+3	Horizontal	Vertical
Peak Avg.		
Avg.		

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11a CH49 6195MHz	
4+3	Horizontal	Vertical
Peak Avg.		

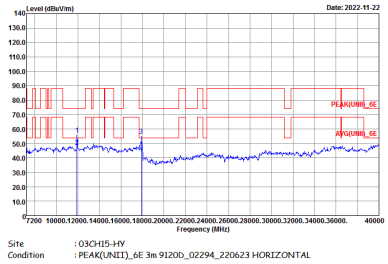
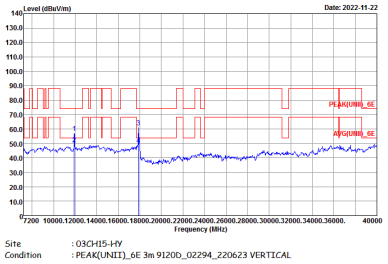
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11a CH49 6195MHz	
4+3	Horizontal	Vertical
Peak Avg.		
Avg.		

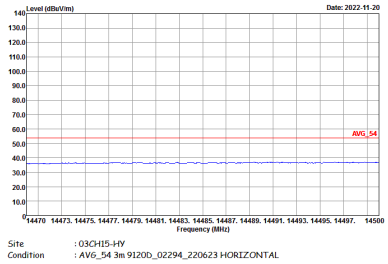
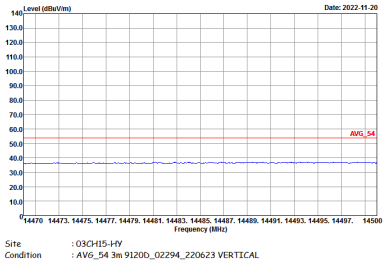
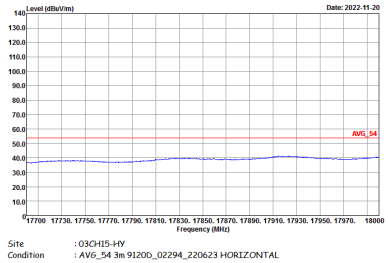
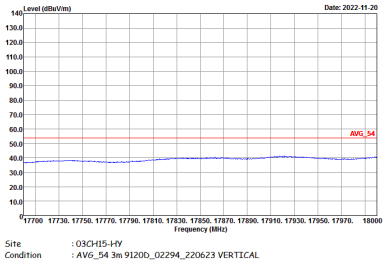
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11a CH93 6415MHz	
4+3	Horizontal	Vertical
Peak Avg.		

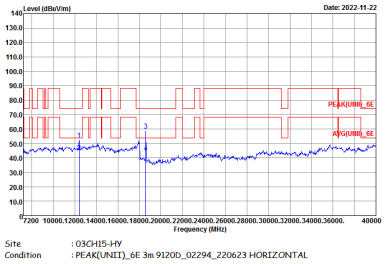
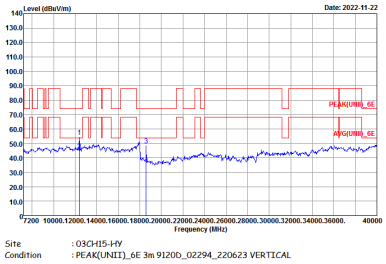
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11a CH93 6415MHz	
4+3	Horizontal	Vertical
Peak Avg.		
Avg.		

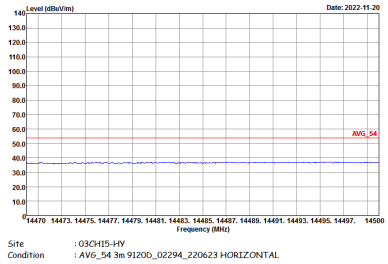
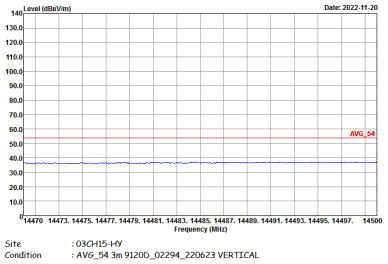
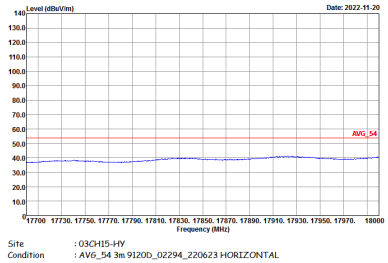
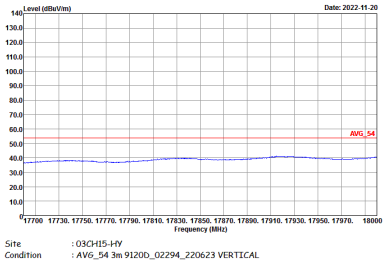
Band 5 5925~6425MHz

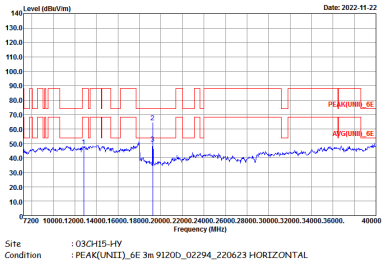
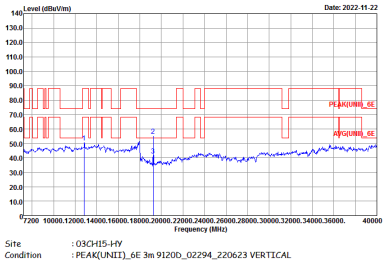
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

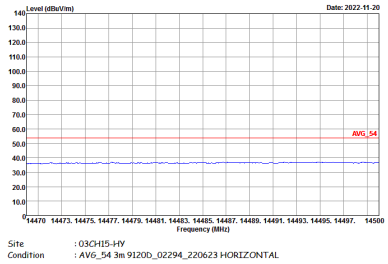
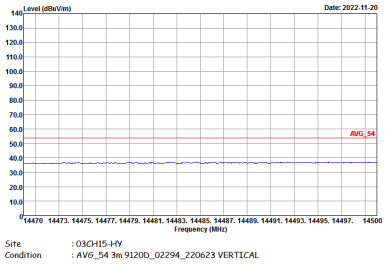
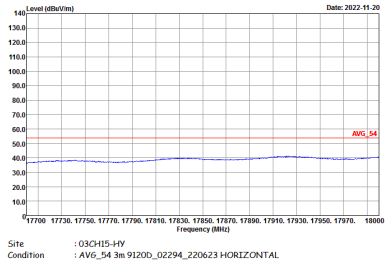
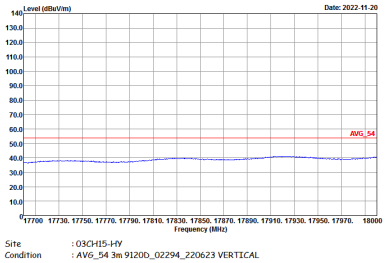
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
4+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
4+3	Horizontal	Vertical
Peak Avg.		
Avg.		

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH49 6195MHz	
4+3	Horizontal	Vertical
Peak Avg.		

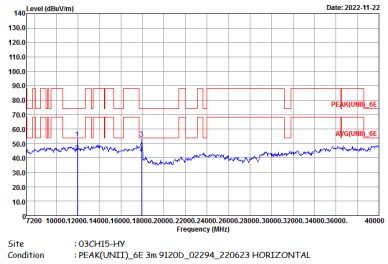
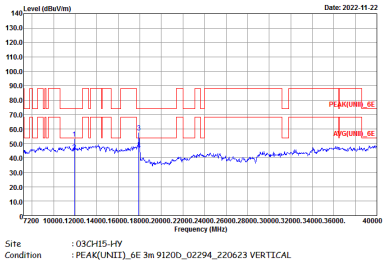
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH49 6195MHz	
4+3	Horizontal	Vertical
Peak Avg.		
Avg.		

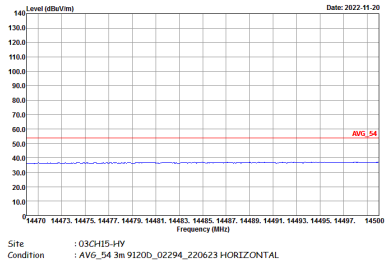
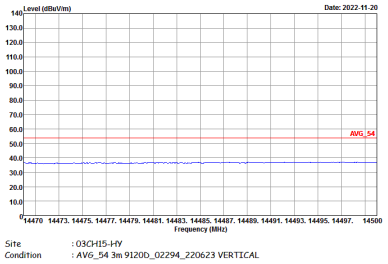
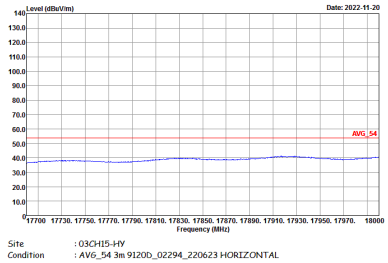
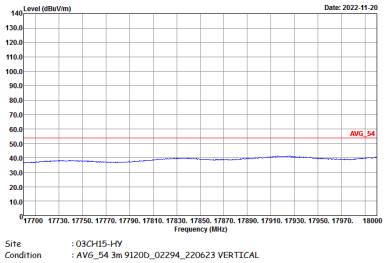
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH93 6415MHz	
4+3	Horizontal	Vertical
Peak Avg.		

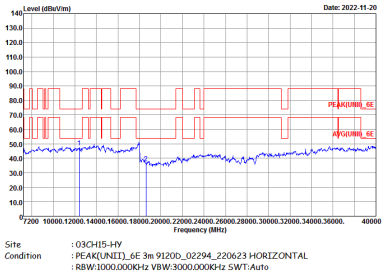
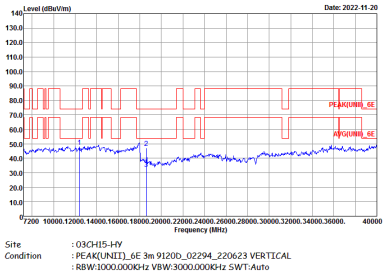
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH93 6415MHz	
4+3	Horizontal	Vertical
Peak Avg.		
Avg.		

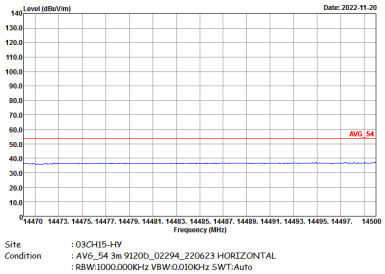
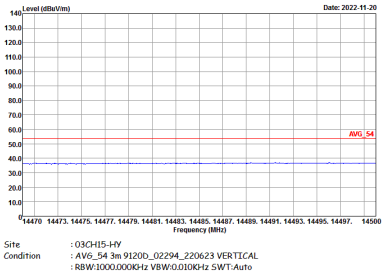
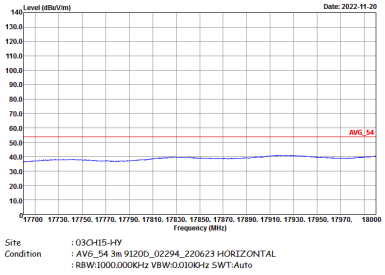
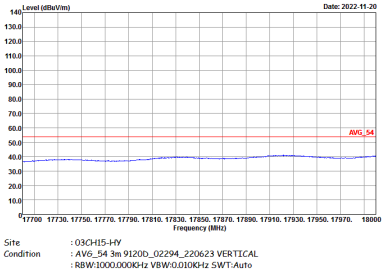
Band 5 5925~6425MHz

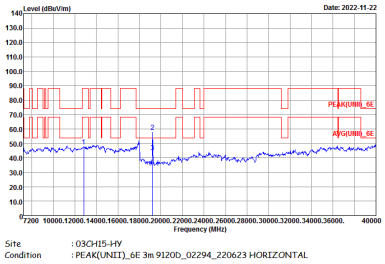
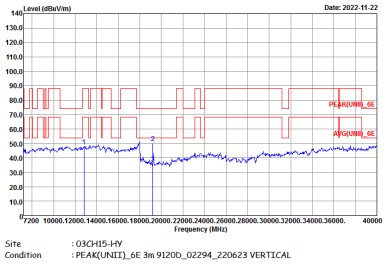
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

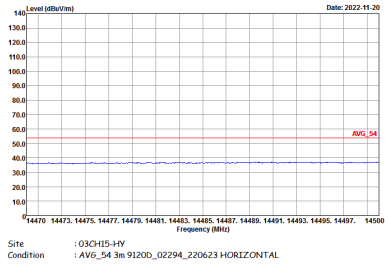
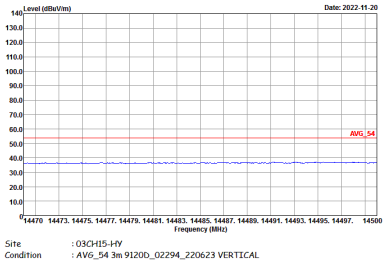
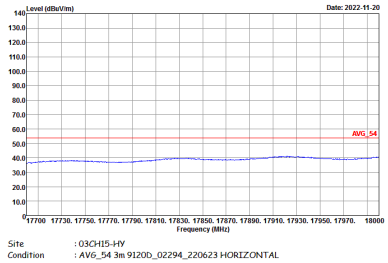
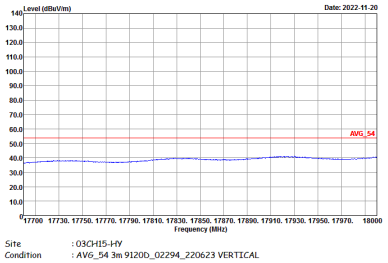
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
4+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
4+3	Horizontal	Vertical
Peak Avg.		
Avg.		

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH51 6205MHz	
4+3	Horizontal	Vertical
Peak Avg.		

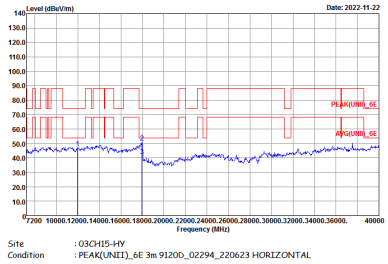
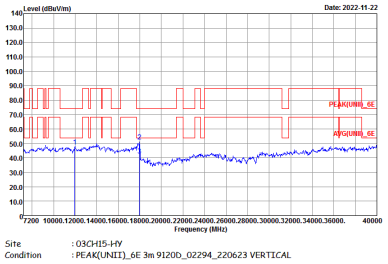
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH51 6205MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : AV6_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AV6_54 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AV6_54 3m 9120D_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AV6_54 3m 9120D_02294_220623 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

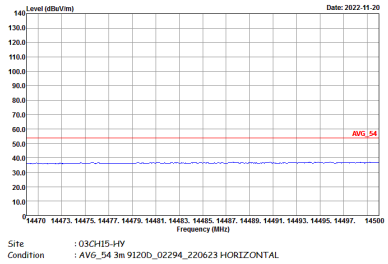
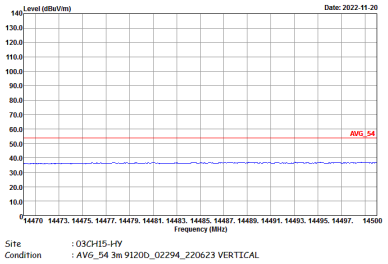
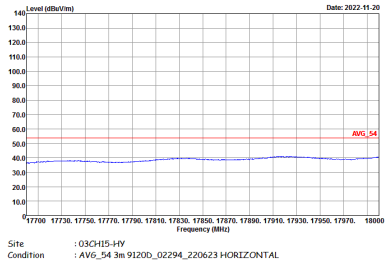
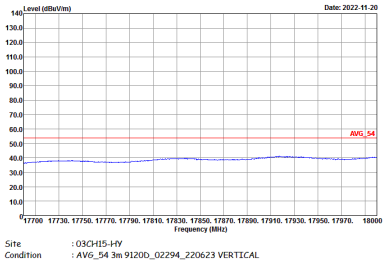
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH91 6405MHz	
4+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH91 6405MHz	
4+3	Horizontal	Vertical
Peak Avg.		
Avg.		

Band 5 5925~6425MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH07 5985MHz	
4+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH07 5985MHz	
4+3	Horizontal	Vertical
Peak Avg.		
Avg.		

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH55 6225MHz	
4+3	Horizontal	Vertical
Peak Avg.