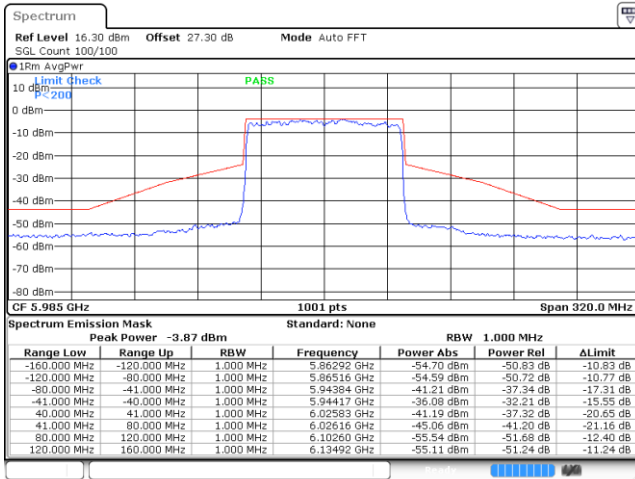




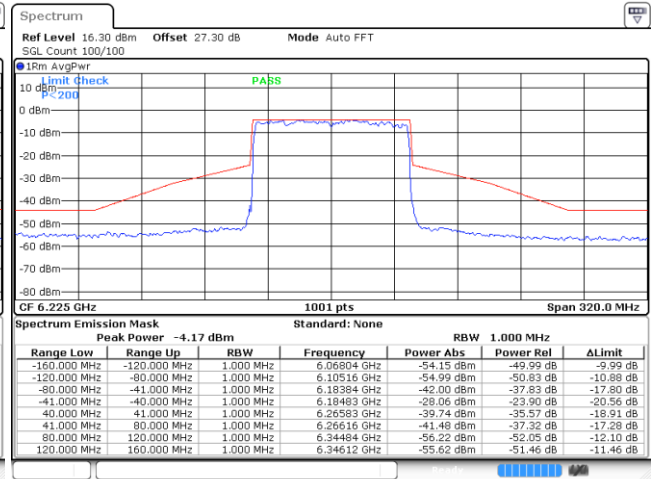
EUT Mode : 802.11ax HE80

Plot on Channel 5985MHz



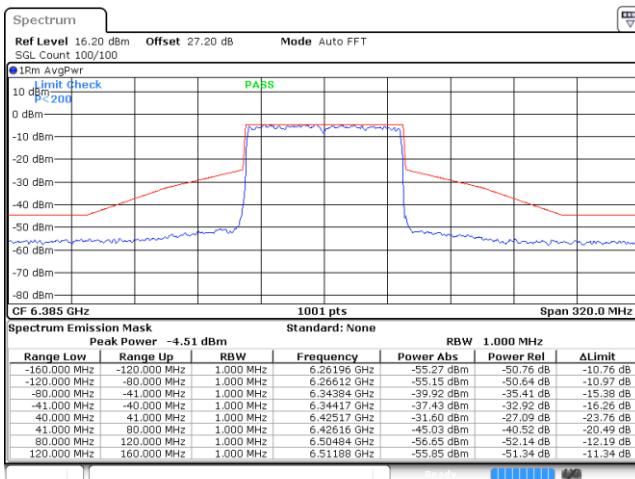
Date: 3 DEC 2021 15:47:21

Plot on Channel 6225MHz



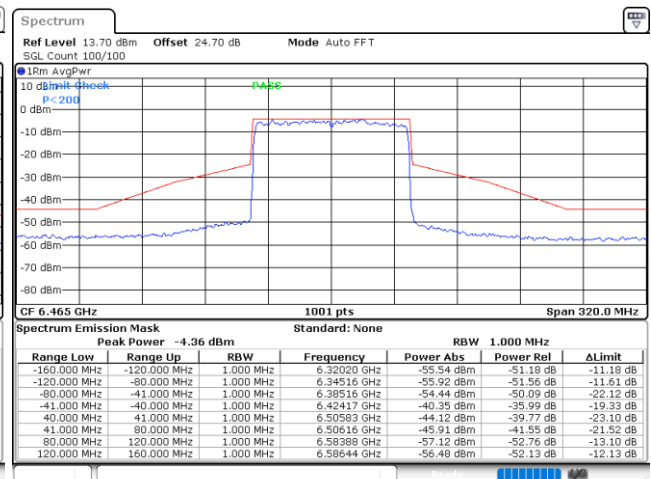
Date: 3 DEC 2021 15:53:31

Plot on Channel 6385MHz



Date: 3 DEC 2021 15:59:44

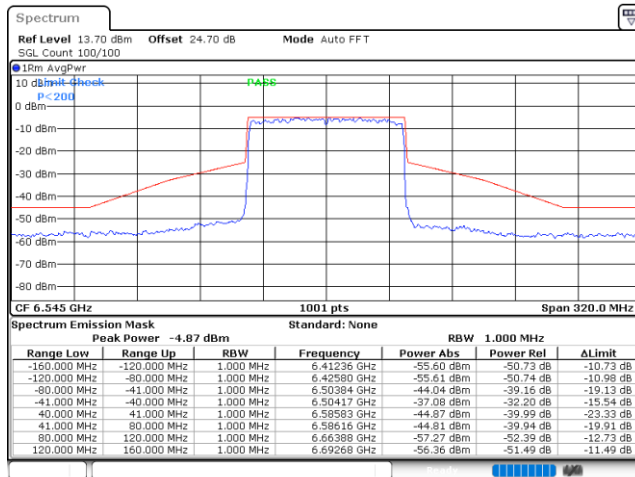
Plot on Channel 6465MHz



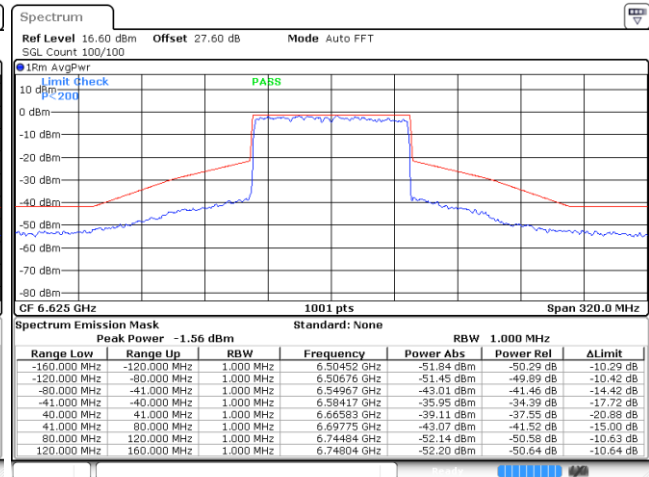
Date: 16 FEB 2022 11:00:16



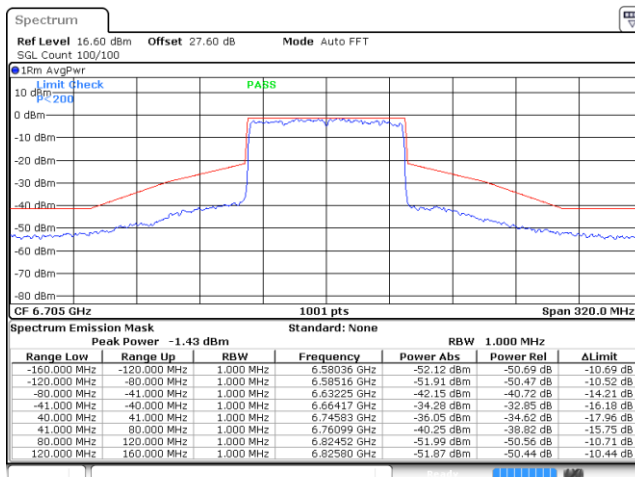
Plot on Channel 6545MHz



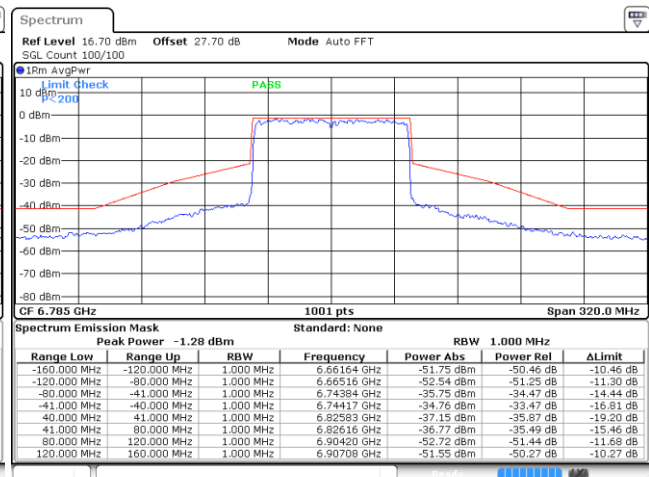
Plot on Channel 6625MHz



Plot on Channel 6705MHz

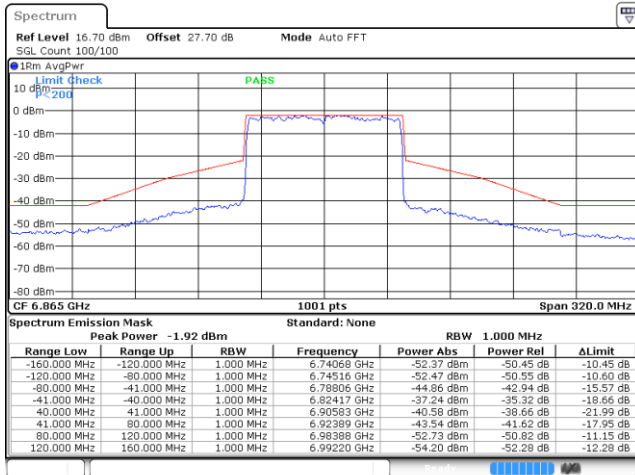


Plot on Channel 6785MHz



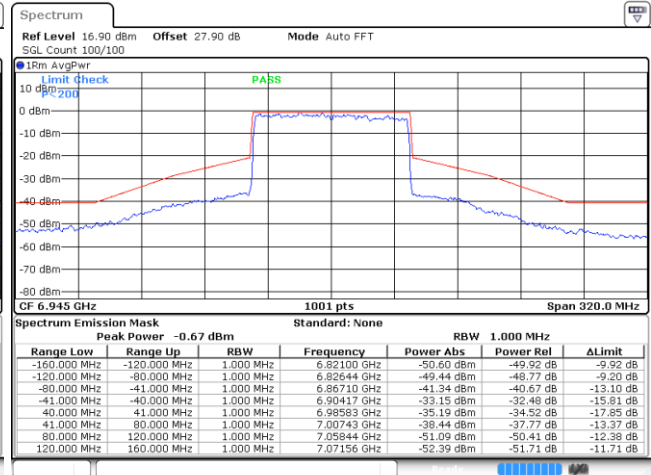


Plot on Channel 6865MHz



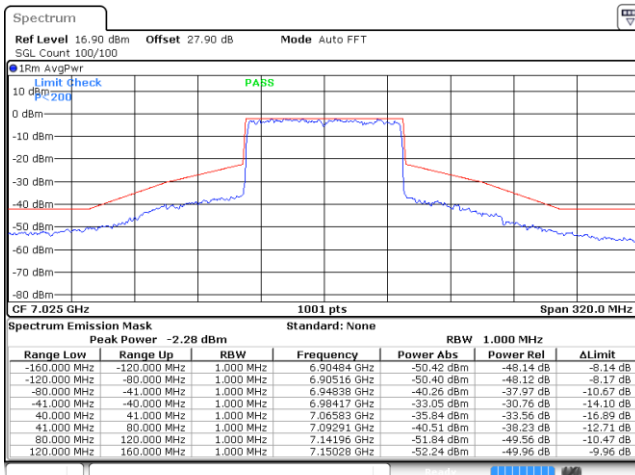
Date: 3 DEC 2021 16:37:23

Plot on Channel 6945MHz



Date: 3 DEC 2021 16:42:49

Plot on Channel 7025MHz

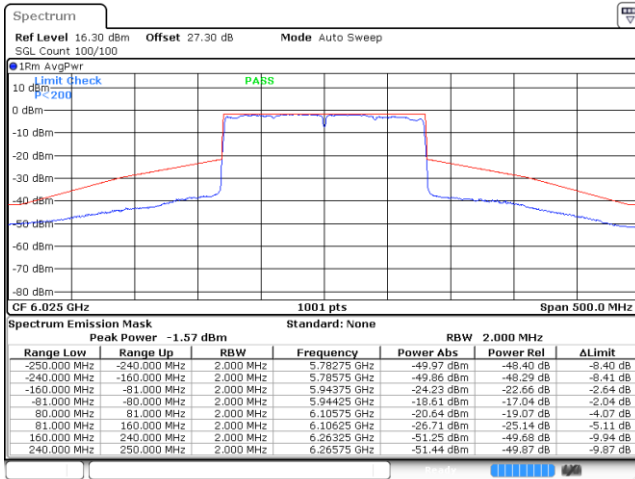


Date: 3 DEC 2021 16:47:40



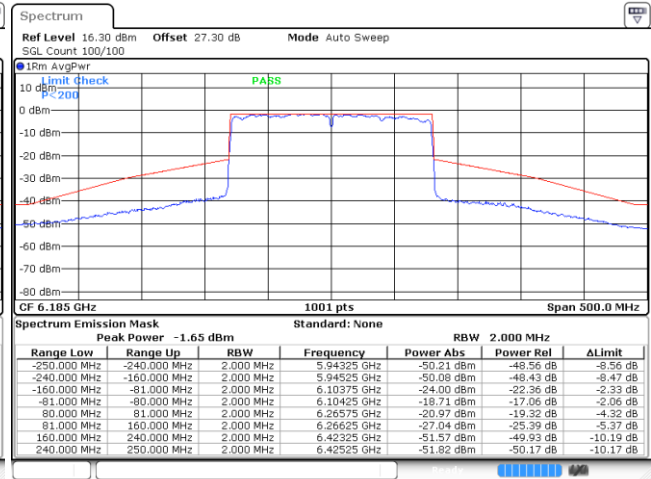
EUT Mode : 802.11ax HE160

Plot on Channel 6025MHz



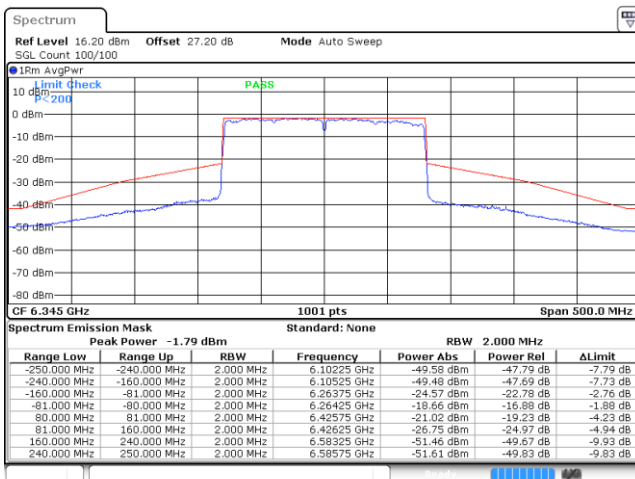
Date: 3 DEC 2021 14:32:07

Plot on Channel 6185MHz



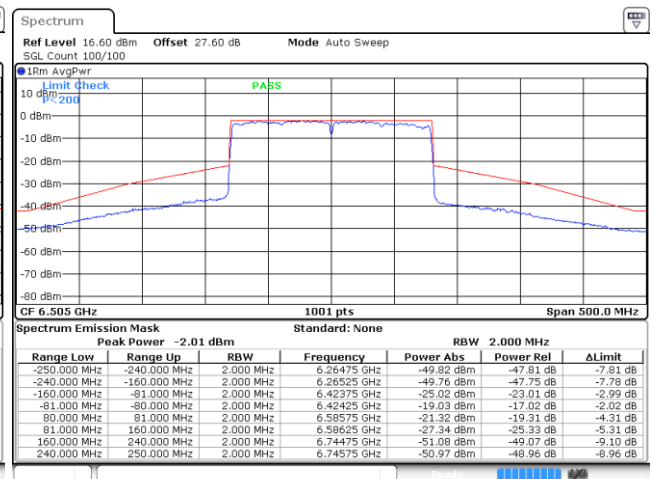
Date: 3 DEC 2021 14:40:55

Plot on Channel 6345MHz



Date: 3 DEC 2021 14:49:55

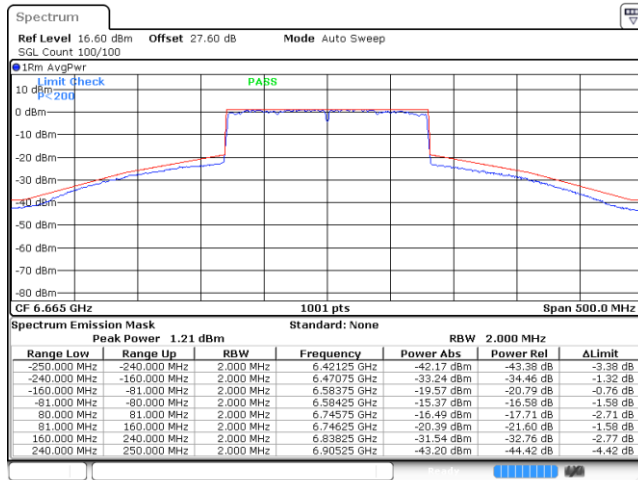
Plot on Channel 6505MHz



Date: 6 JAN 2022 11:40:24

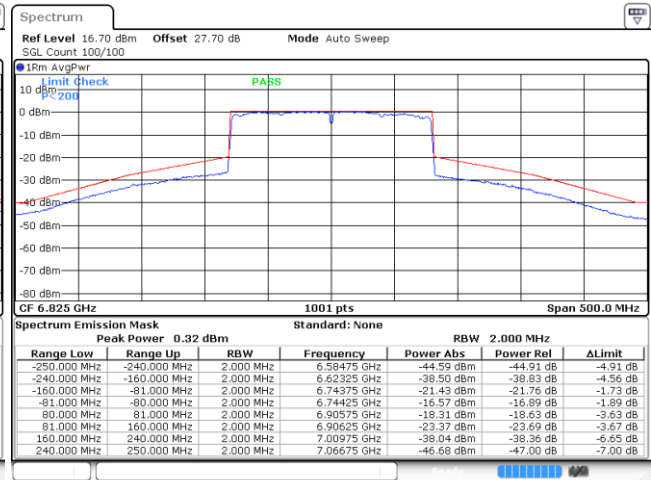


Plot on Channel 6665MHz



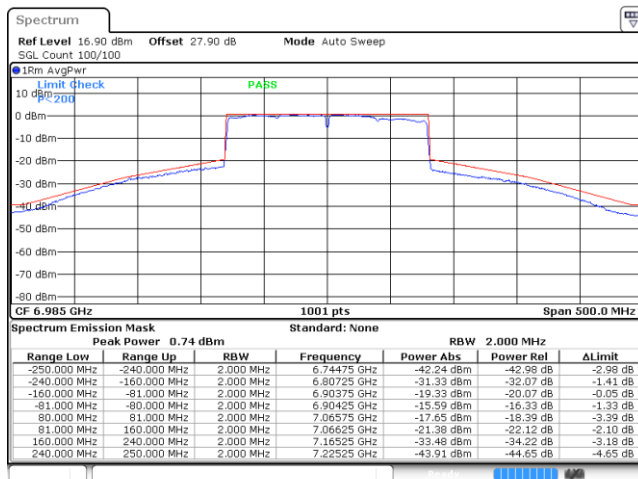
Date: 3 DEC 2021 15:02:03

Plot on Channel 6825MHz



Date: 3 DEC 2021 15:09:39

Plot on Channel 6985MHz



Date: 3 DEC 2021 15:40:11

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

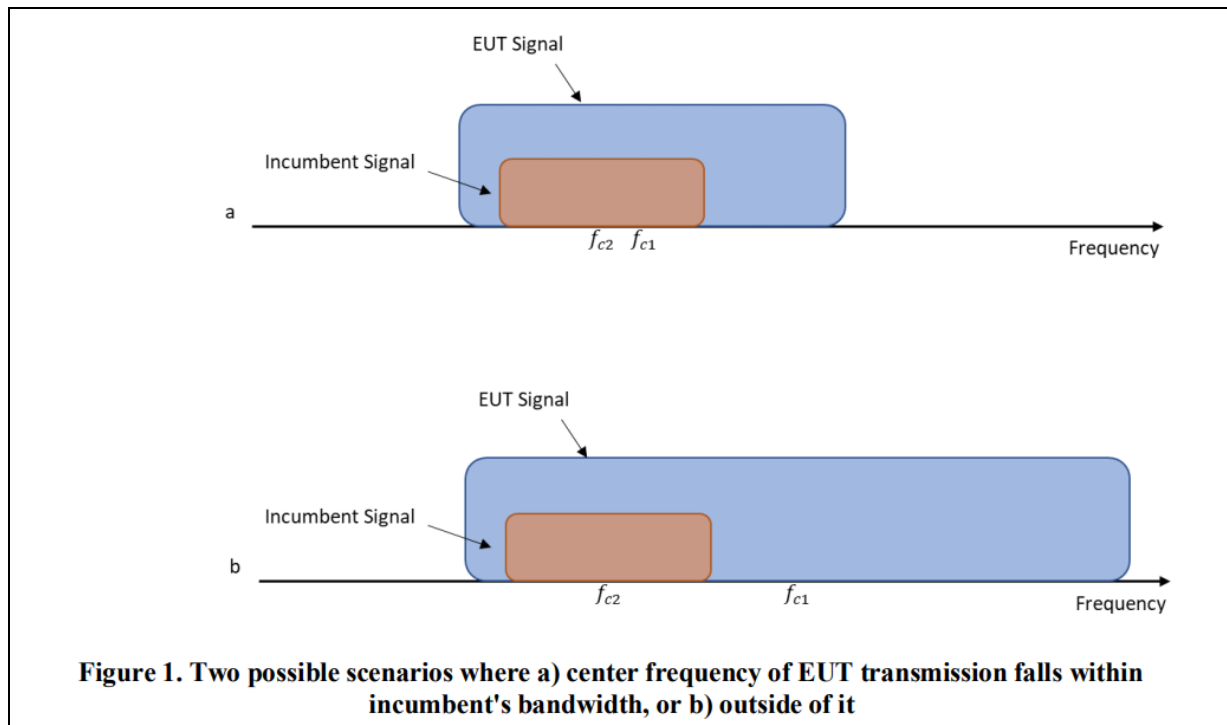
where:

BW_{EUT} : Transmission bandwidth of EUT signal

BW_{Inc} : Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

f_{c1} : Center frequency of EUT transmission

f_{c2} : Center frequency of simulated incumbent signal



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.

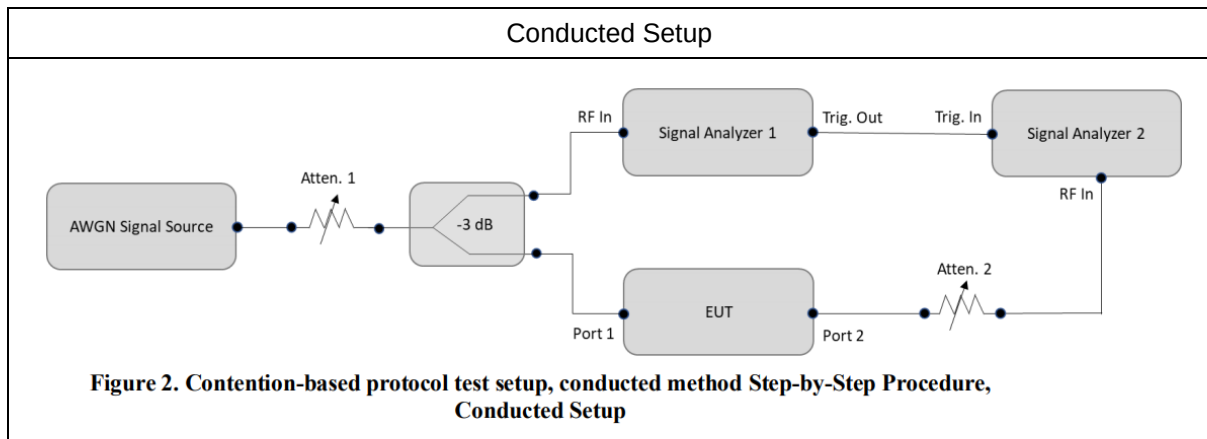
Section I) Contention Based Protocol

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



3.5.5 Support Unit used in test configuration and system

Instrument	Brand Name	Model No.	Characteristics
WLAN AP	ASUS	GT-AXE11000	Dual Band AP
Notebook	Acer	N15C1	LAN

3.5.6 Test Summary of Contention Based Protocol Test

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Measured Detection level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Margin (dB)
UNII Band 5	6135	20	6135	-70.56	100	-64.9	5.66
				Result : Stop Transmission			
	6135	20	6135	-71.56	< 90	-64.9	6.66
				Result : Start Transmission			
	6185	160	6110	-72.55	100	-64.9	7.65
				Result : Stop Transmission			
			6110	-73.55	< 90	-64.9	8.65
				Result : Start Transmission			
			6185	-71.54	100	-64.9	6.64
				Result : Stop Transmission			
			6185	-72.54	< 90	-64.9	7.64
				Result : Start Transmission			
			6260	-72.02	100	-64.9	7.12
				Result : Stop Transmission			
			6260	-73.02	< 90	-64.9	8.12
				Result : Start Transmission			

Note: Threshold Level (TL) = -62dBm + minimum antenna gain



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Measured Detection level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Margin (dB)
UNII Band 6	6455	20	6455	-69.35	100	-65.6	3.75
				Result : Stop Transmission			
				-70.35	< 90	-65.6	4.75
				Result : Start Transmission			
	6505	160	6430	-71.56	100	-65.6	5.96
				Result : Stop Transmission			
				-72.56	< 90	-65.6	6.96
				Result : Start Transmission			
			6505	-71.38	100	-65.6	5.78
				Result : Stop Transmission			
				-72.38	< 90	-65.6	6.78
				Result : Start Transmission			
			6580	-71.05	100	-65.6	5.45
				Result : Stop Transmission			
				-72.05	< 90	-65.6	6.45
				Result : Start Transmission			

Note: Threshold Level (TL) = -62dBm + minimum antenna gain



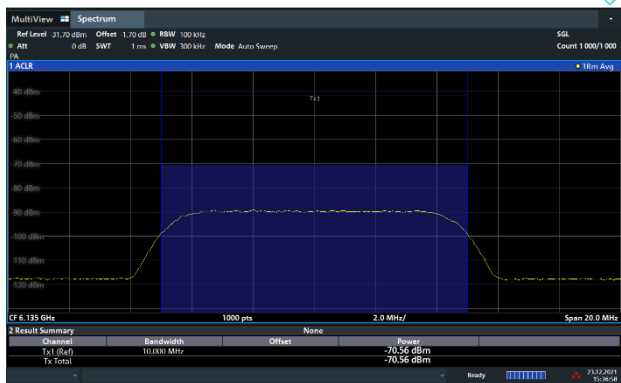
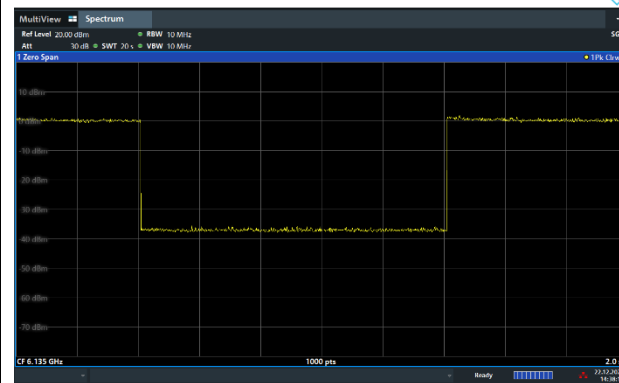
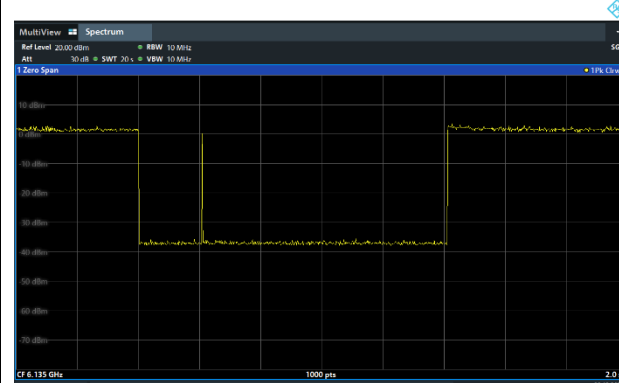
Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Measured Detection level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Margin (dB)
UNII Band 7	6695	20	6695	-70.25	100	-67.7	2.55
					Result : Stop Transmission		
				-71.25	< 90	-67.7	3.55
					Result : Start Transmission		
	6665	160	6590	-72.53	100	-67.7	4.83
					Result : Stop Transmission		
				-73.53	< 90	-67.7	5.83
					Result : Start Transmission		
			6665	-70.72	100	-67.7	3.02
					Result : Stop Transmission		
				-71.72	< 90	-67.7	4.02
					Result : Start Transmission		
			6740	-70.44	100	-67.7	2.74
					Result : Stop Transmission		
				-71.44	< 90	-67.7	3.74
					Result : Start Transmission		

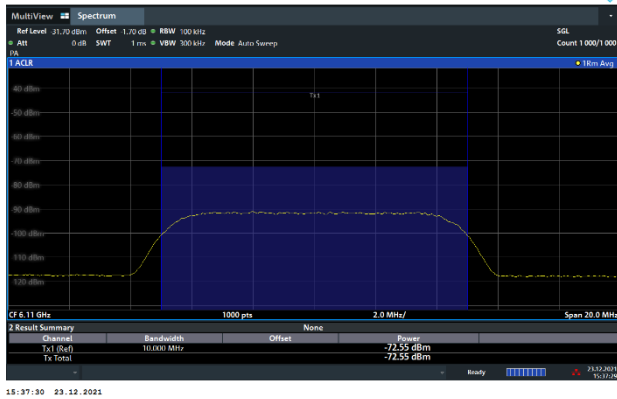
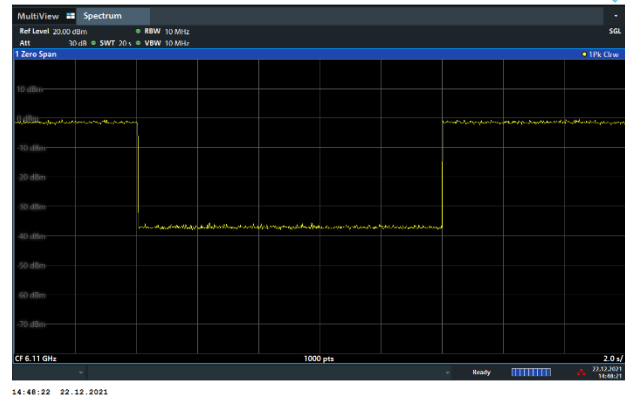
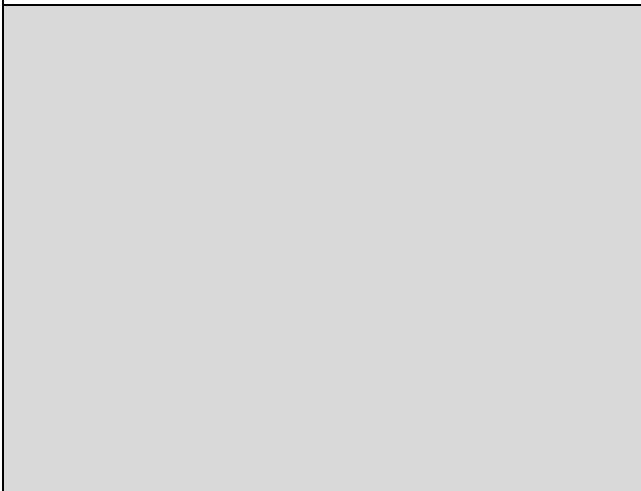
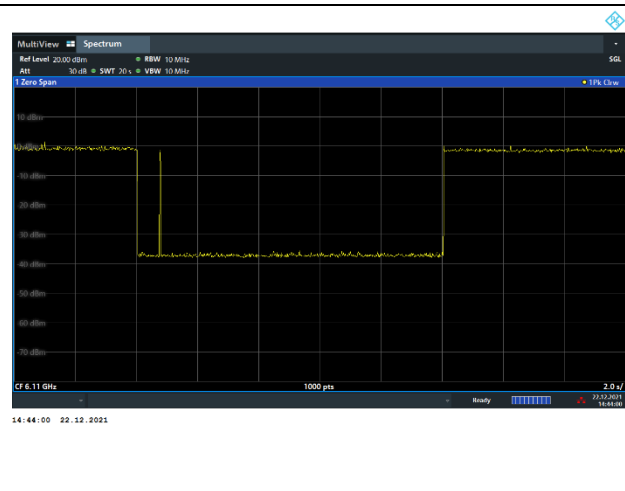
Note: Threshold Level (TL) = -62dBm + minimum antenna gain

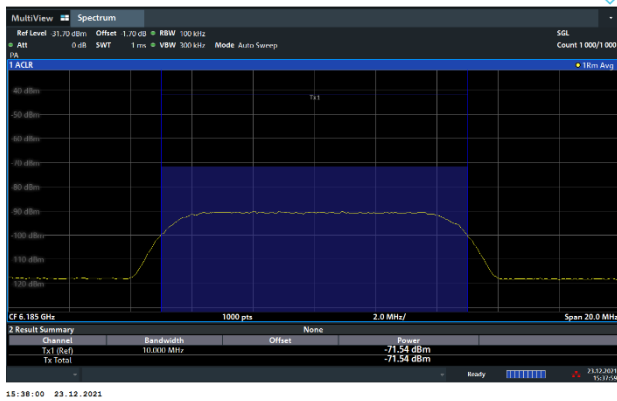
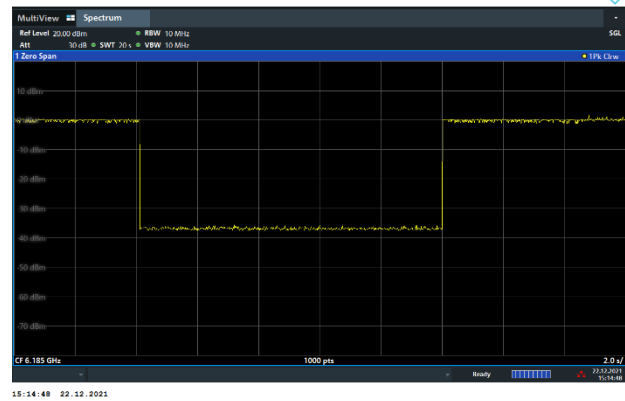
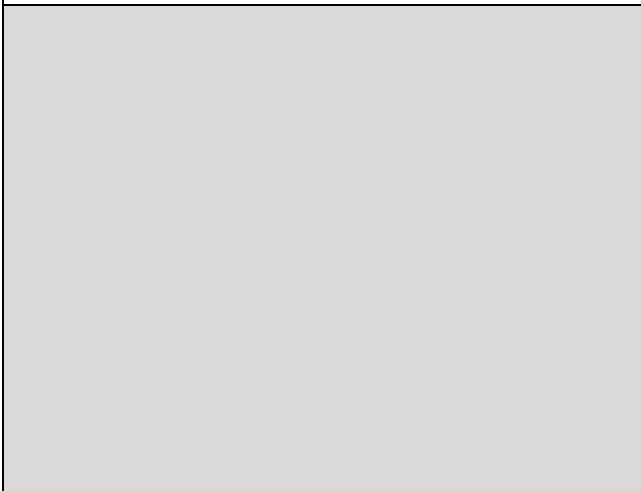
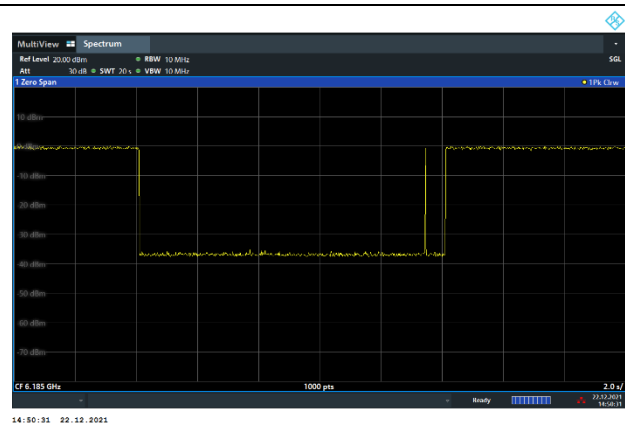
Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Measured Detection level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Margin (dB)
UNII Band 8	7015	20	7015	-70.77	100	-68.5	2.27
				Result : Stop Transmission			
				-71.77	< 90	-68.5	3.27
				Result : Start Transmission			
	6985	160	6910	-74.71	100	-68.5	6.21
				Result : Stop Transmission			
				-75.71	< 90	-68.5	7.21
				Result : Start Transmission			
			6985	-72.14	100	-68.5	3.64
				Result : Stop Transmission			
				-73.14	< 90	-68.5	4.64
				Result : Start Transmission			
			7060	-70.17	100	-68.5	1.67
				Result : Stop Transmission			
				-71.17	< 90	-68.5	2.67
				Result : Start Transmission			

Note: Threshold Level (TL) = -62dBm + minimum antenna gain

3.5.7 Test Plots of Contention Based Protocol Test

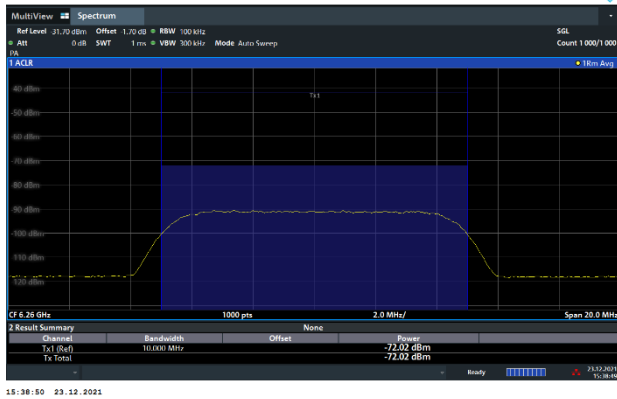
Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)	
802.11ax (HE20) / 6135MHz Threshold Level (TL) = -70.56dBm 	802.11ax (HE20) / CH37 Test result is pass due to no transmission occur. 
802.11ax (HE20) / 6135MHz Threshold Level (TL) = -71.56dBm 	802.11ax (HE20) / CH37 Transmission occur when interferer is 1dB lower. 

Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)
802.11ax (HE160) / 6110MHz (Lower edge)
Threshold Level (TL) = -72.55dBm

802.11ax (HE160) / CH47 (Lower edge)
transmission occur when interferer is 1dB lower.

802.11ax (HE160) / 6110MHz (Lower edge)
Threshold Level (TL) = -73.55dBm

802.11ax (HE160) / CH47 (Lower edge)
Transmission occur when interferer is 1dB lower.


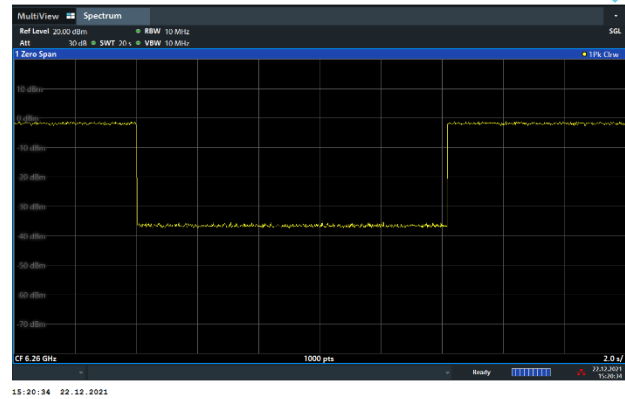
Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)
802.11ax (HE160) / 6185MHz (Middle)
Threshold Level (TL) = -71.54dBm

802.11ax (HE160) / CH47 (Middle)
Test result is pass due to no transmission occur.

802.11ax (HE160) / 6185MHz (Middle)
Threshold Level (TL) = -72.54dBm

802.11ax (HE160) / CH47 (Middle)
Transmission occur when interferer is 1dB lower.


Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)

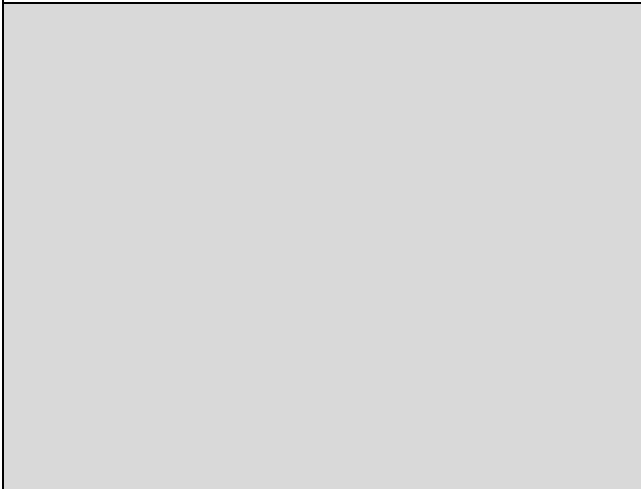
802.11ax (HE160) / 6260MHz (Upper edge)
Threshold Level (TL) = -72.02dBm



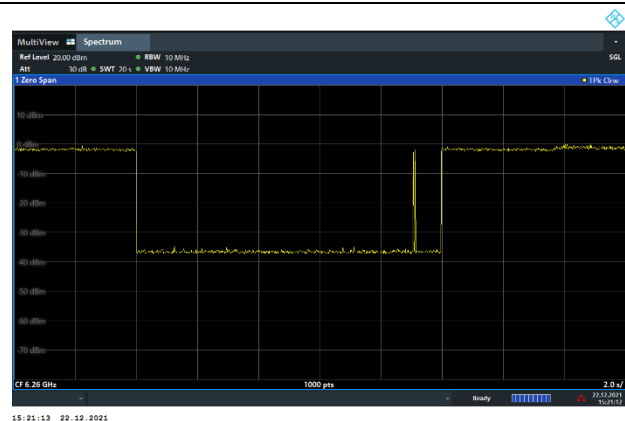
802.11ax (HE160) / CH47 (Upper edge)
Test result is pass due to no transmission occur.

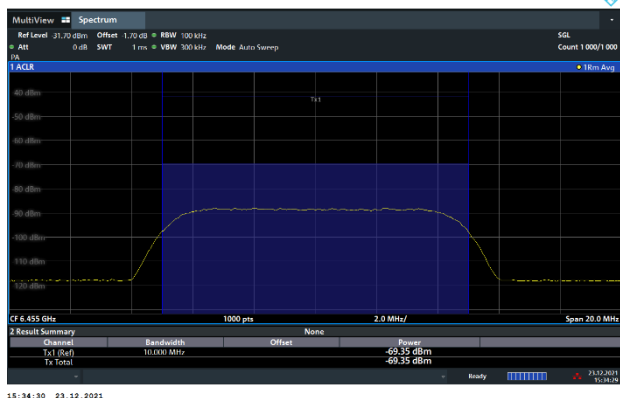
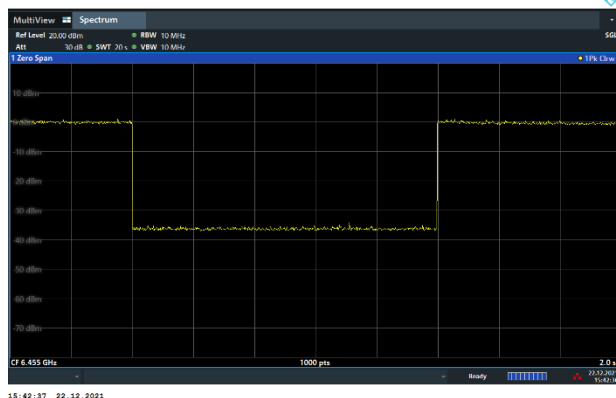
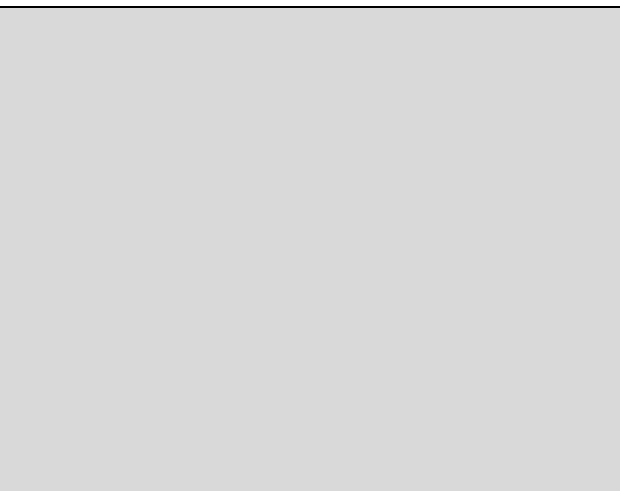
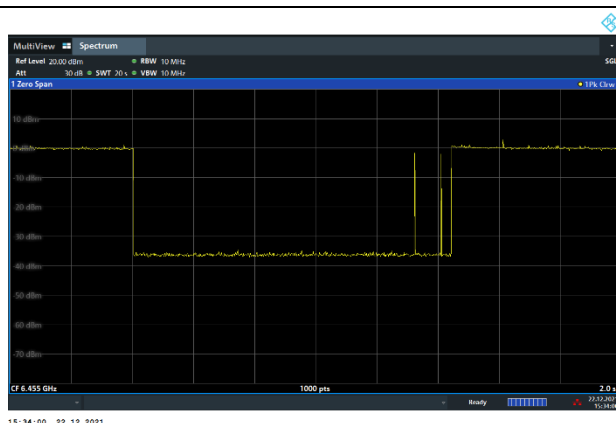


802.11ax (HE160) / 6260MHz (Upper edge)
Threshold Level (TL) = -73.02dBm



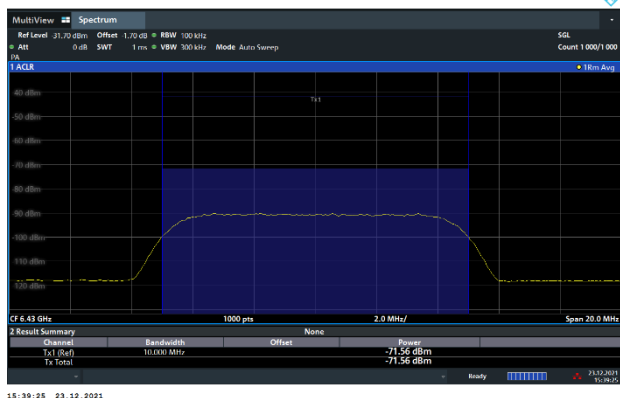
802.11ax (HE160) / CH47 (Upper edge)
Transmission occur when interferer is 1dB lower.



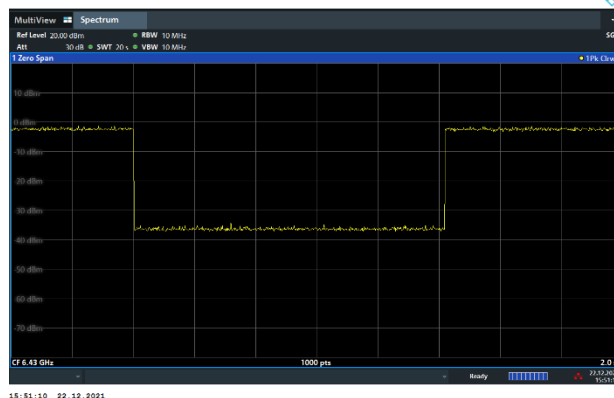
Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)
802.11ax (HE20) / 6455MHz
Threshold Level (TL) = -69.35dBm

802.11ax (HE20) / CH101
Test result is pass due to no transmission occur.

802.11ax (HE20) / 6455MHz
Threshold Level (TL) = -70.35dBm

802.11ax (HE20) / CH101
Transmission occur when interferer is 1dB lower.


Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

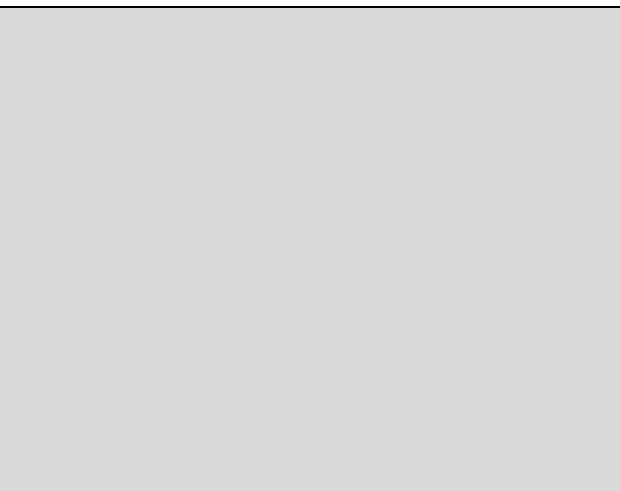
802.11ax (HE160) / 6430MHz (Lower edge)
Threshold Level (TL) = -71.56dBm



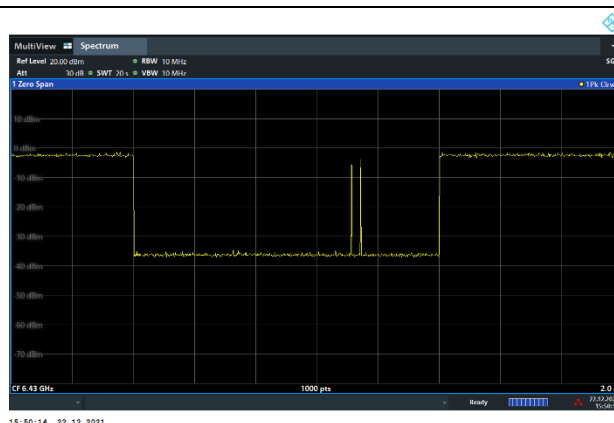
802.11ax (HE160) / CH111 (Lower edge)
Test result is pass due to no transmission occur.

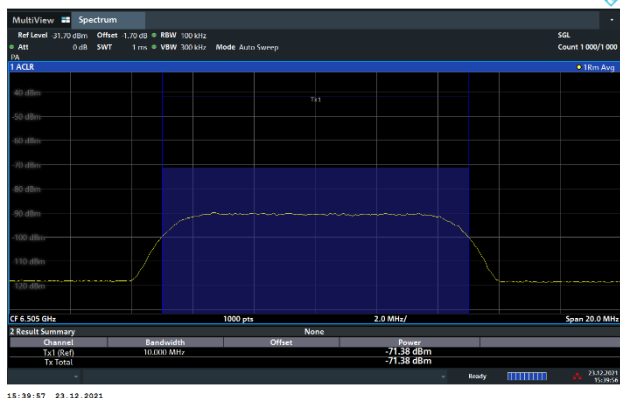
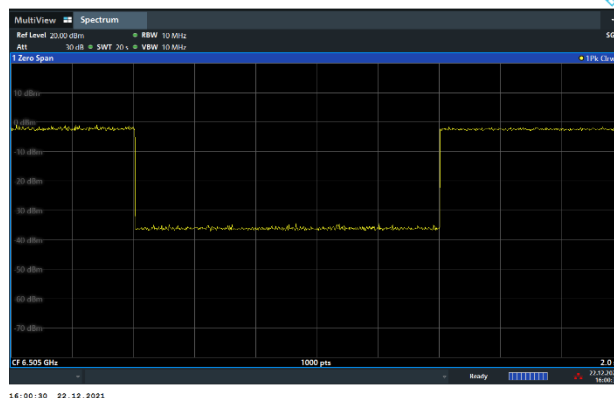
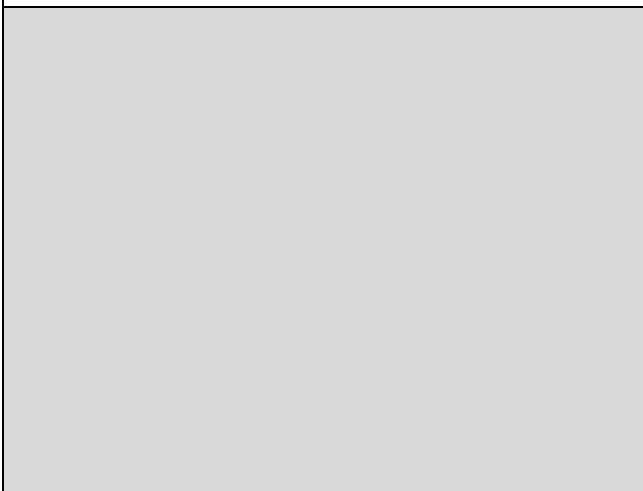
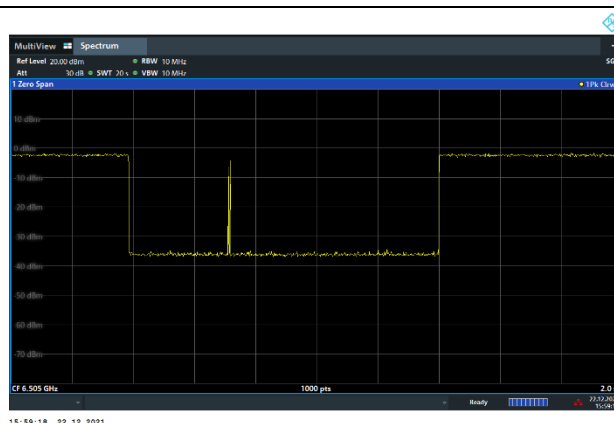


802.11ax (HE160) / 6430MHz (Lower edge)
Threshold Level (TL) = -72.56dBm



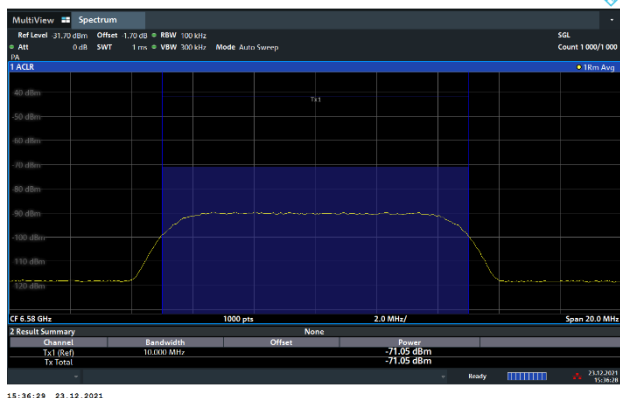
802.11ax (HE160) / CH111 (Lower edge)
Transmission occur when interferer is 1dB lower.



Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)
802.11ax (HE160) / 6505MHz (Middle)
Threshold Level (TL) = -71.38dBm

802.11ax (HE160) / CH111 (Middle)
Test result is pass due to no transmission occur.

802.11ax (HE160) / 6505MHz (Middle)
Threshold Level (TL) = -72.38dBm

802.11ax (HE160) / CH111 (Middle)
Transmission occur when interferer is 1dB lower.


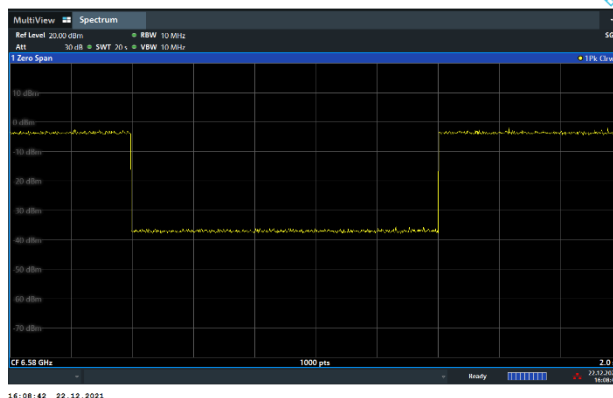
Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

802.11ax (HE160) / 6580MHz (Upper edge)
Threshold Level (TL) = -71.05dBm

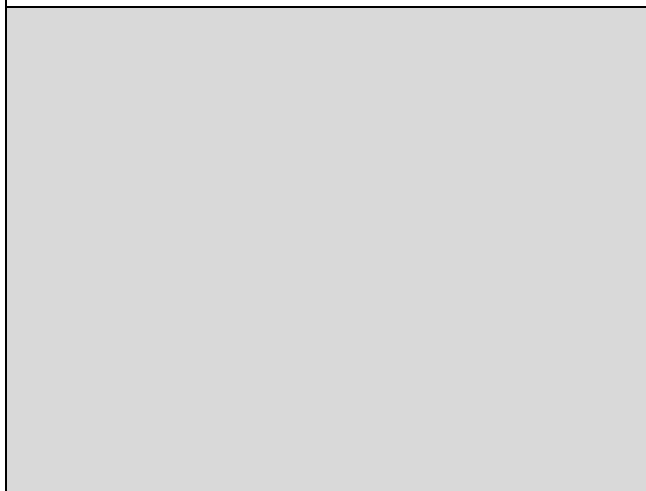


802.11ax (HE160) / CH111 (Upper edge)

Test result is pass due to no transmission occur.

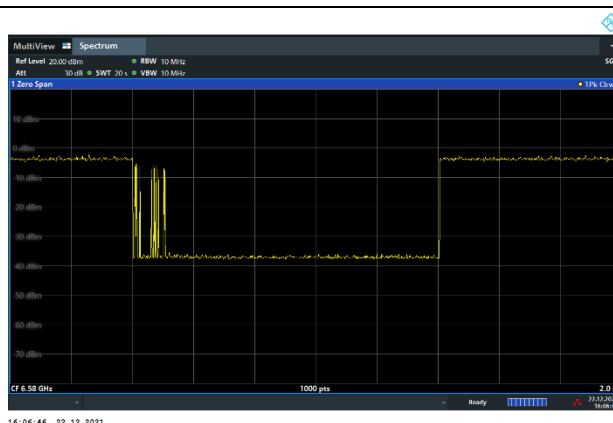


802.11ax (HE160) / 6580MHz (Upper edge)
Threshold Level (TL) = -72.05dBm



802.11ax (HE160) / CH111 (Upper edge)

Transmission occur when interferer is 1dB lower.

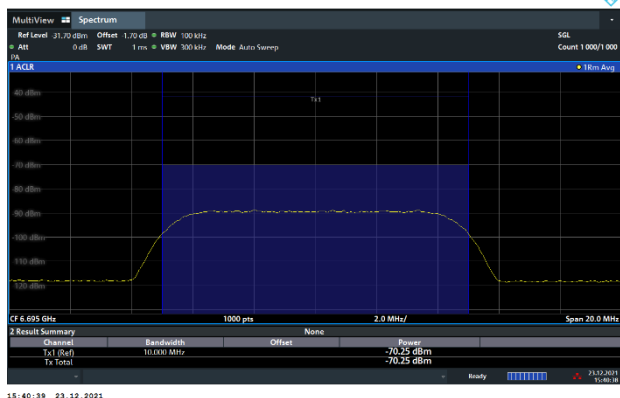




Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

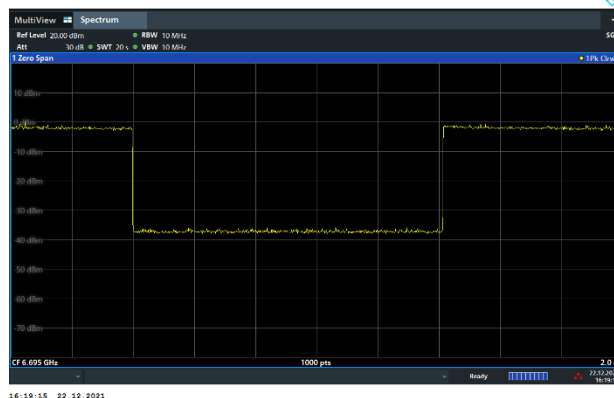
802.11ax (HE20) / 6695MHz

Threshold Level (TL) = -70.25dBm



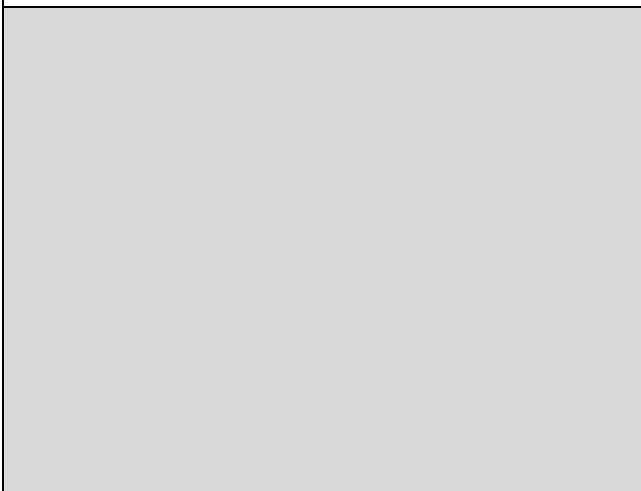
802.11ax (HE20) / CH149

Test result is pass due to no transmission occur.



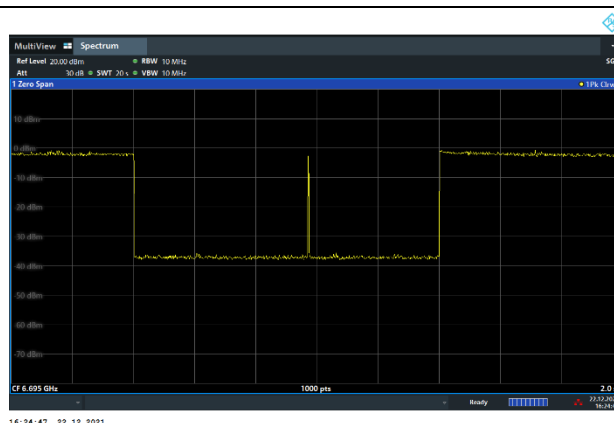
802.11ax (HE20) / 6695MHz

Threshold Level (TL) = -71.25dBm



802.11ax (HE20) / CH149

Transmission occur when interferer is 1dB lower.



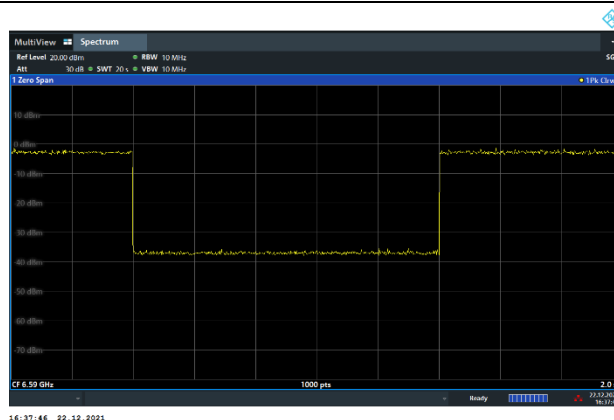
Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

802.11ax (HE160) / 6590MHz (Lower edge)
Threshold Level (TL) = -72.53dBm

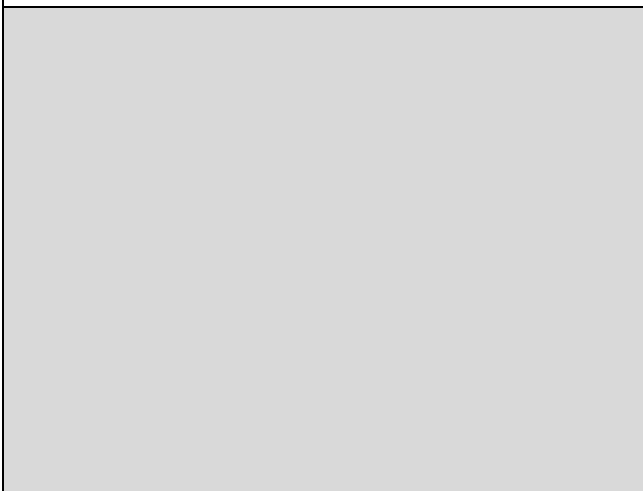


802.11ax (HE160) / CH143 (Lower edge)

Test result is pass due to no transmission occur.

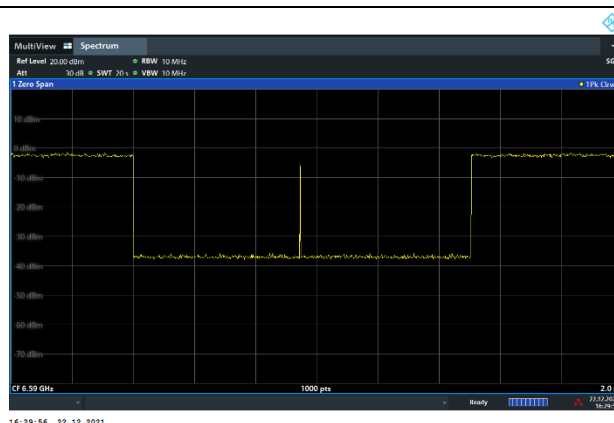


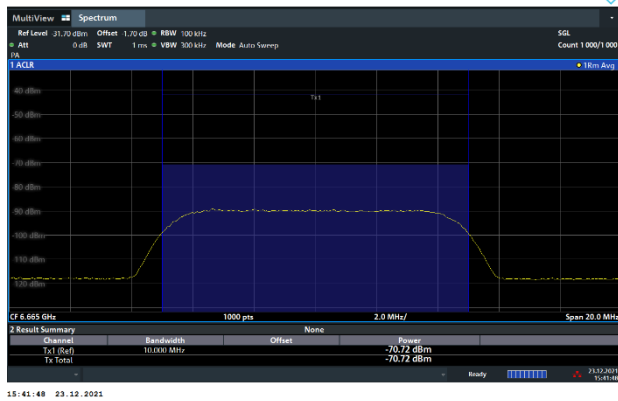
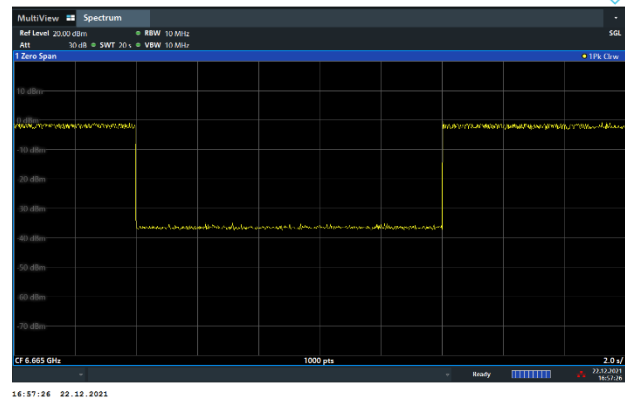
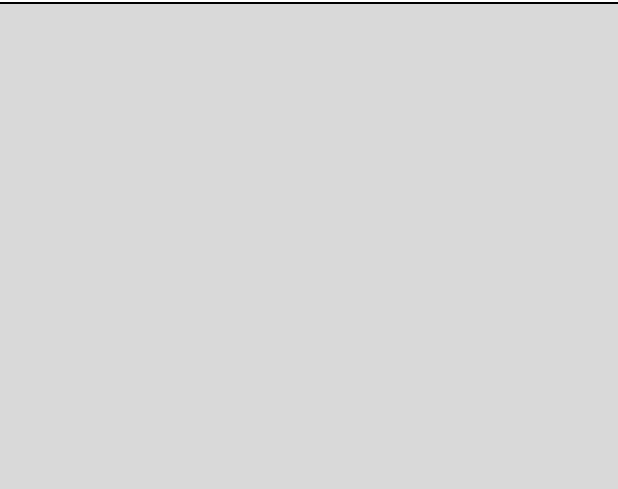
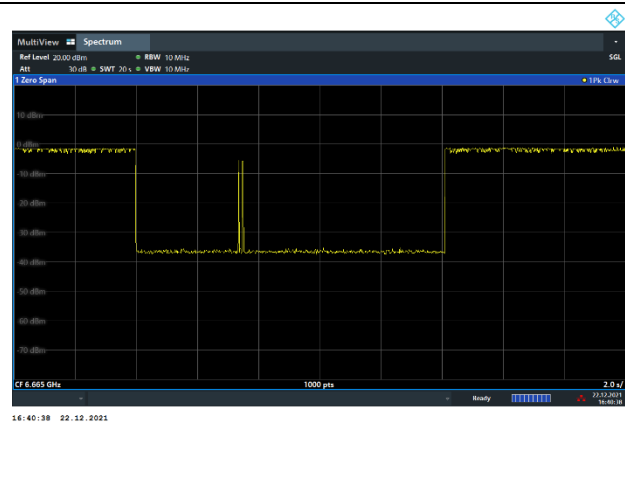
802.11ax (HE160) / 6590MHz (Lower edge)
Threshold Level (TL) = -73.53dBm



802.11ax (HE160) / CH143 (Lower edge)

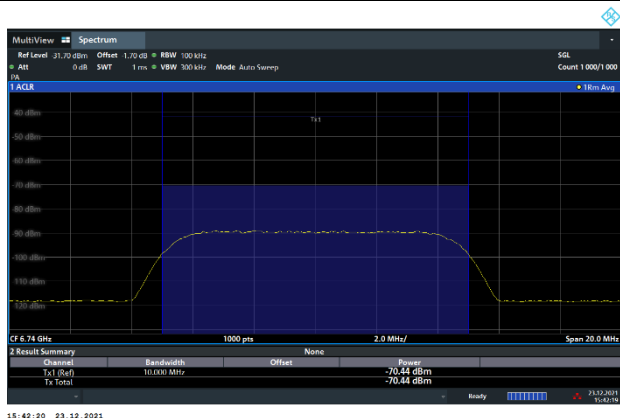
Transmission occur when interferer is 1dB lower.



Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)
802.11ax (HE160) / 6665MHz (Middle)
Threshold Level (TL) = -70.72dBm

802.11ax (HE160) / CH143 (Middle)
Test result is pass due to no transmission occur.

802.11ax (HE160) / 6665MHz (Middle)
Threshold Level (TL) = -71.72dBm

802.11ax (HE160) / CH143 (Middle)
Transmission occur when interferer is 1dB lower.


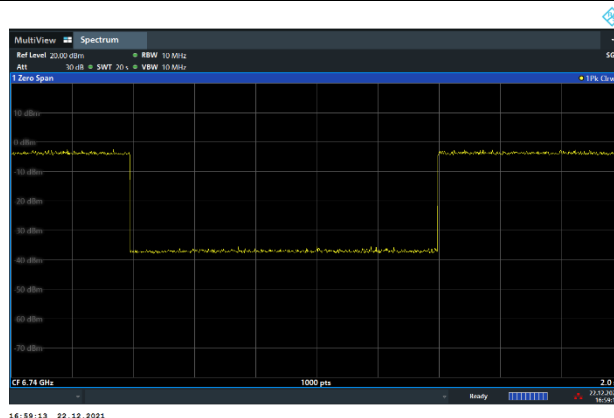
Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

802.11ax (HE160) / 6740MHz (Upper edge)
Threshold Level (TL) = -70.44dBm

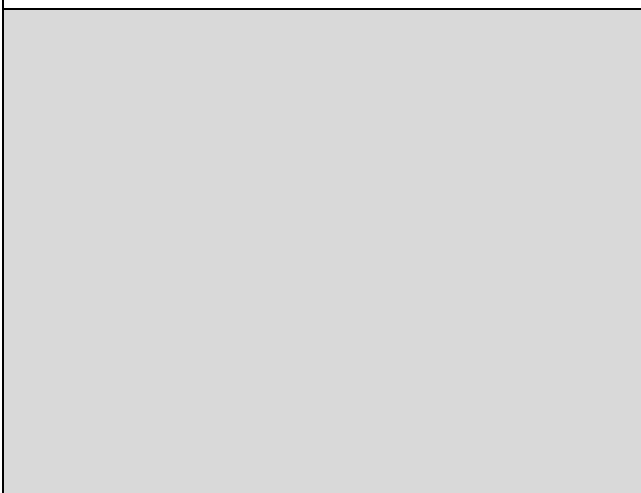


802.11ax (HE160) / CH143 (Upper edge)

Test result is pass due to no transmission occur.

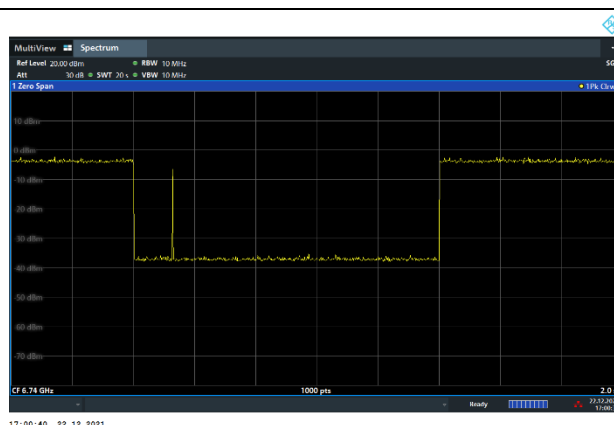


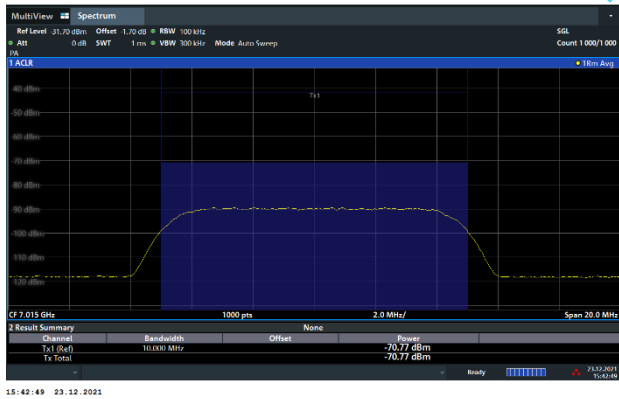
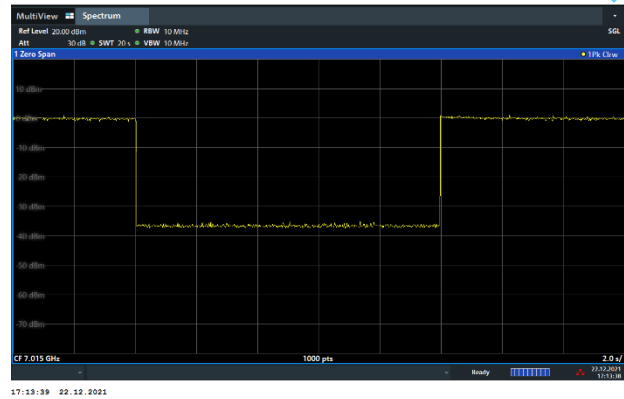
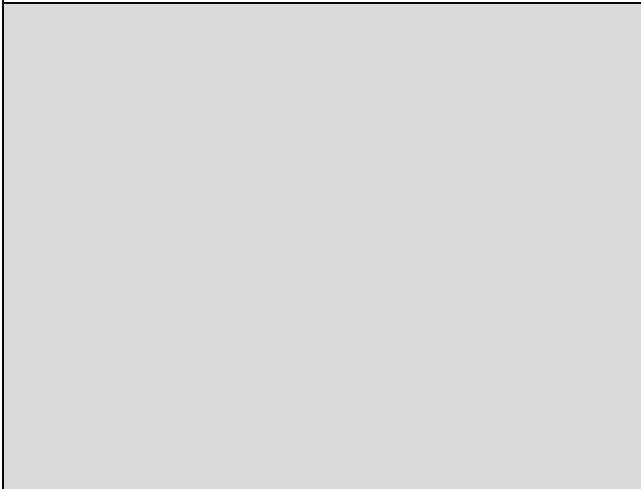
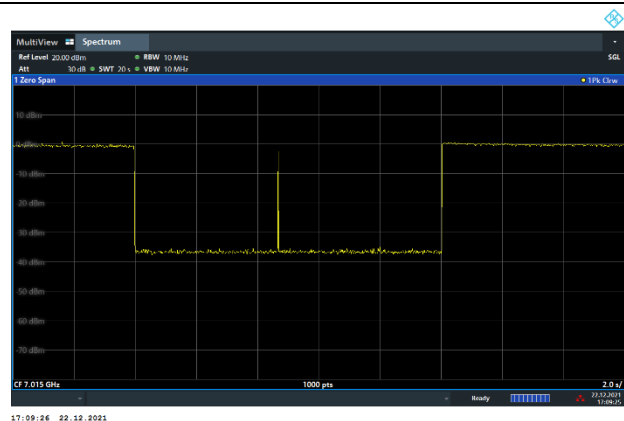
802.11ax (HE160) / 6740MHz (Upper edge)
Threshold Level (TL) = -71.44dBm



802.11ax (HE160) / CH143 (Upper edge)

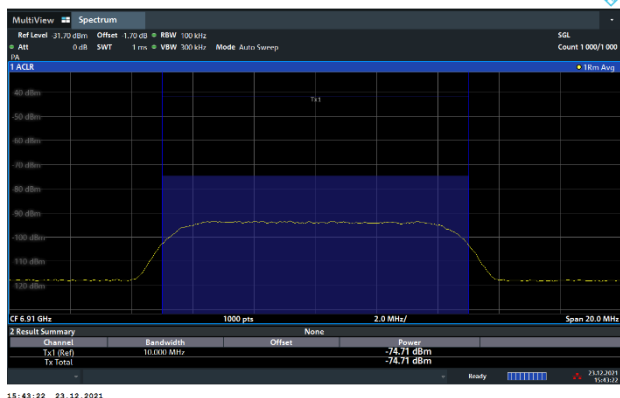
Transmission occur when interferer is 1dB lower.



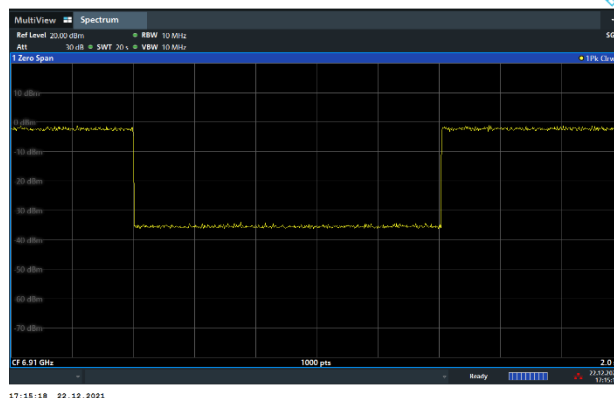
Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)
802.11ax (HE20) / 7015MHz
Threshold Level (TL) = -70.77dBm

802.11ax (HE20) / CH213
Test result is pass due to no transmission occur.

802.11ax (HE20) / 7015MHz
Threshold Level (TL) = -71.77dBm

802.11ax (HE20) / CH213
Transmission occur when interferer is 1dB lower.


Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

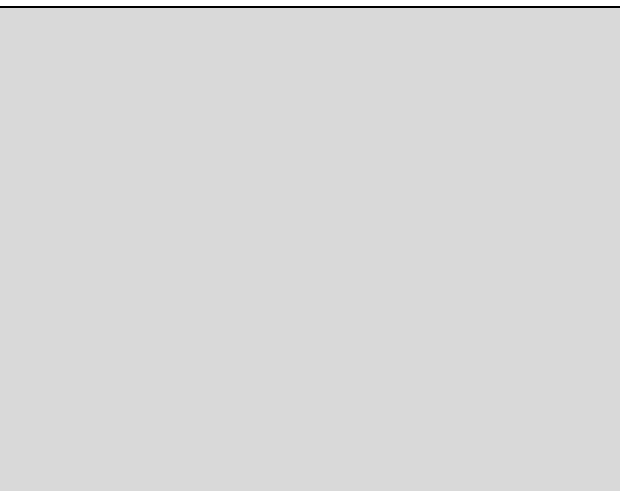
802.11ax (HE160) / 6910MHz (Lower edge)
Threshold Level (TL) = -74.71dBm



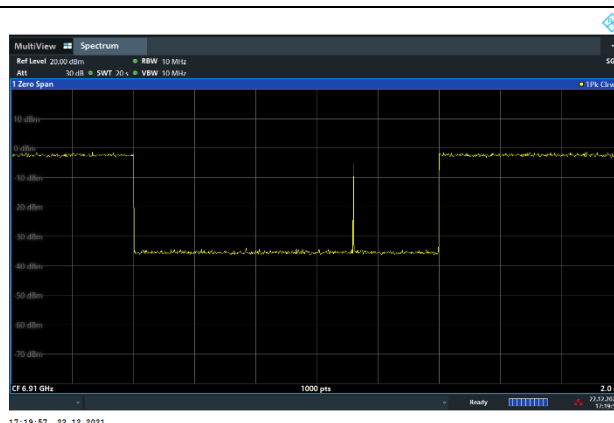
802.11ax (HE160) / CH207 (Lower edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6910MHz (Lower edge)
Threshold Level (TL) = -75.71dBm

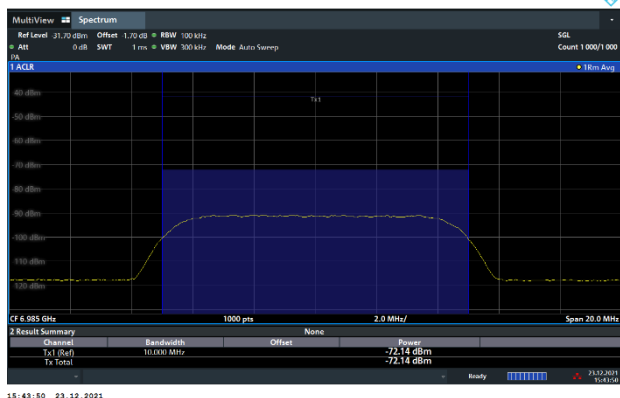


802.11ax (HE160) / CH207 (Lower edge)
Transmission occur when interferer is 1dB lower.



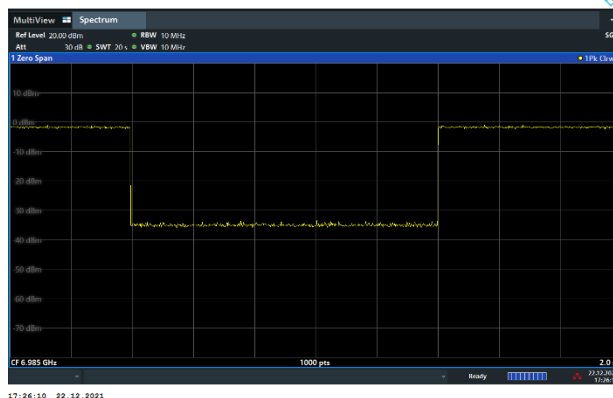
Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

802.11ax (HE160) / 6985MHz (Middle)
Threshold Level (TL) = -72.14dBm

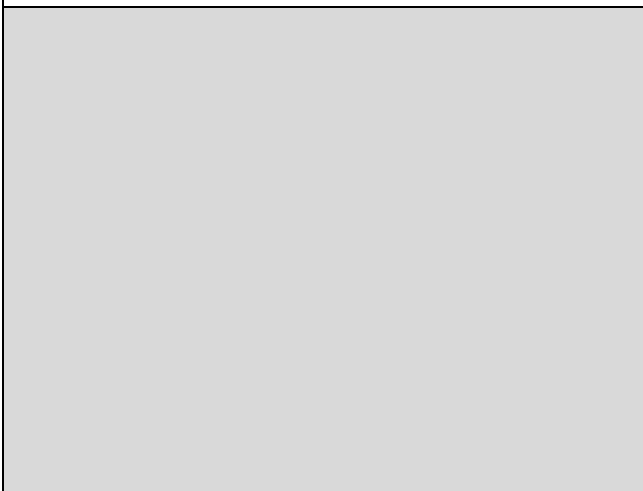


802.11ax (HE160) / CH207 (Middle)

Test result is pass due to no transmission occur.

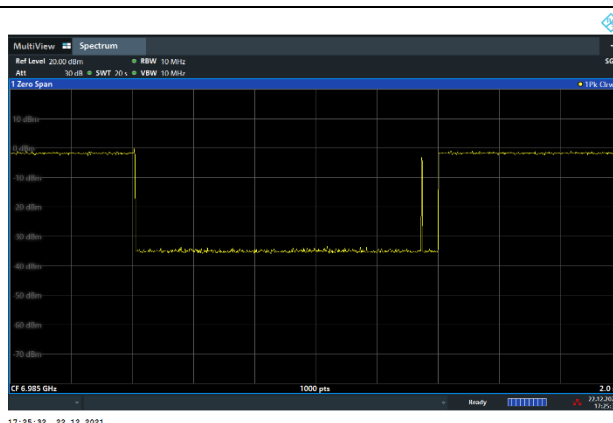


802.11ax (HE160) / 6985MHz (Middle)
Threshold Level (TL) = -73.14dBm



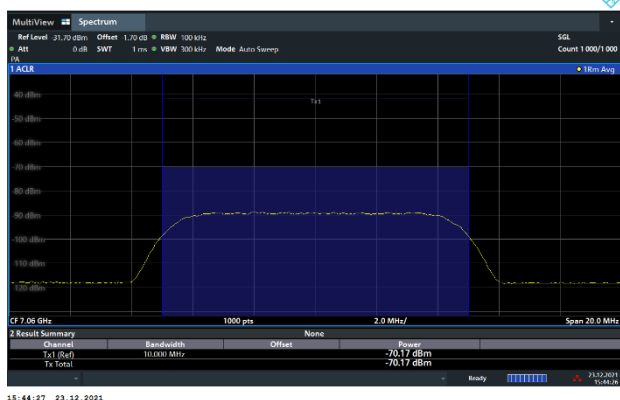
802.11ax (HE160) / CH207 (Middle)

Transmission occur when interferer is 1dB lower.

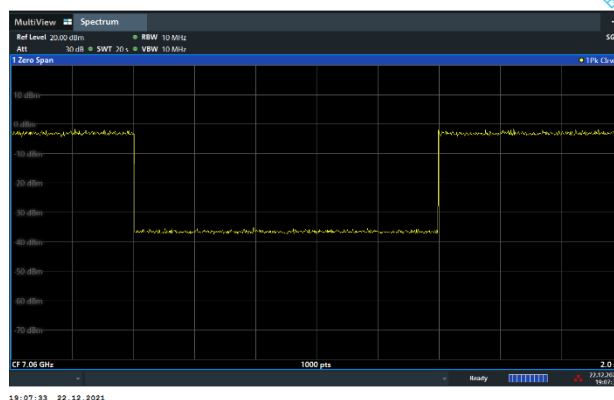


Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

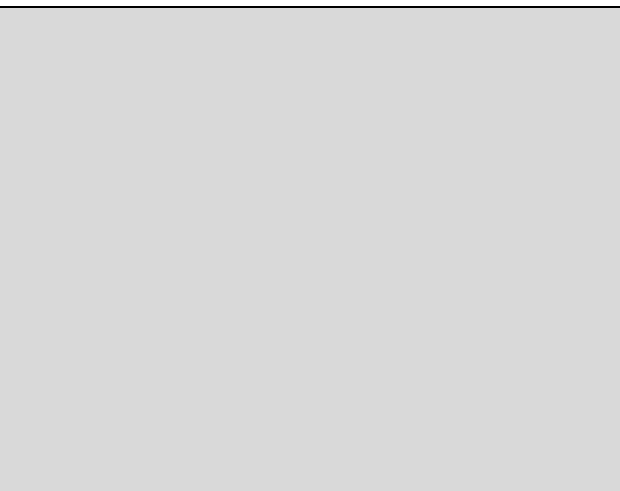
802.11ax (HE160) / 7060MHz (Upper edge)
Threshold Level (TL) = -70.17dBm



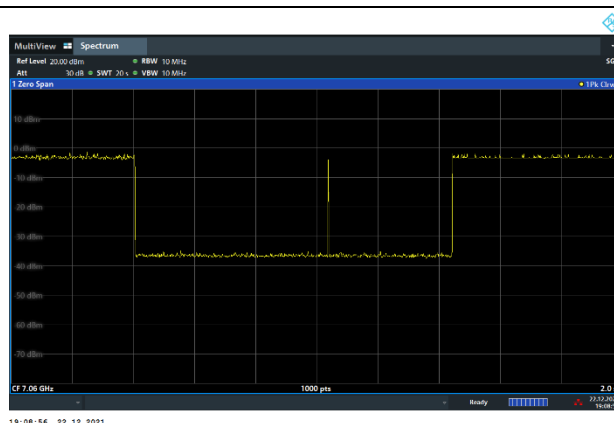
802.11ax (HE160) / CH207 (Upper edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 7060MHz (Upper edge)
Threshold Level (TL) = -71.17dBm



802.11ax (HE160) / CH207 (Upper edge)
Transmission occur when interferer is 1dB lower.



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.

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

3.6.2 Measuring Instruments

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

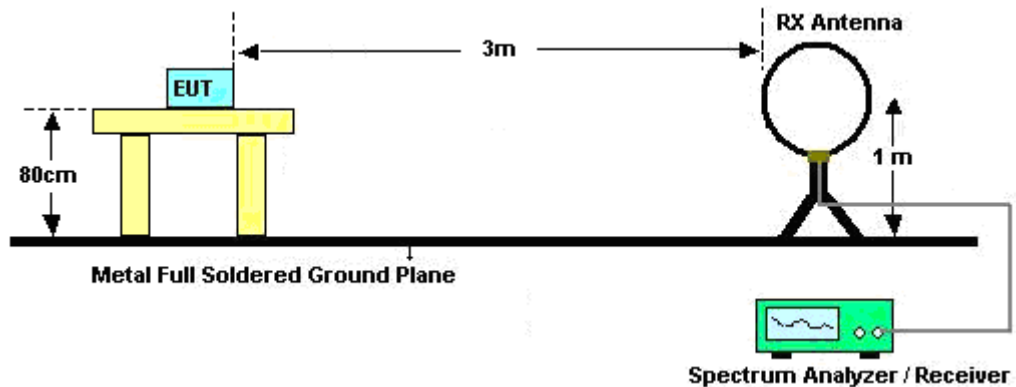
3.6.3 Test Procedures

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

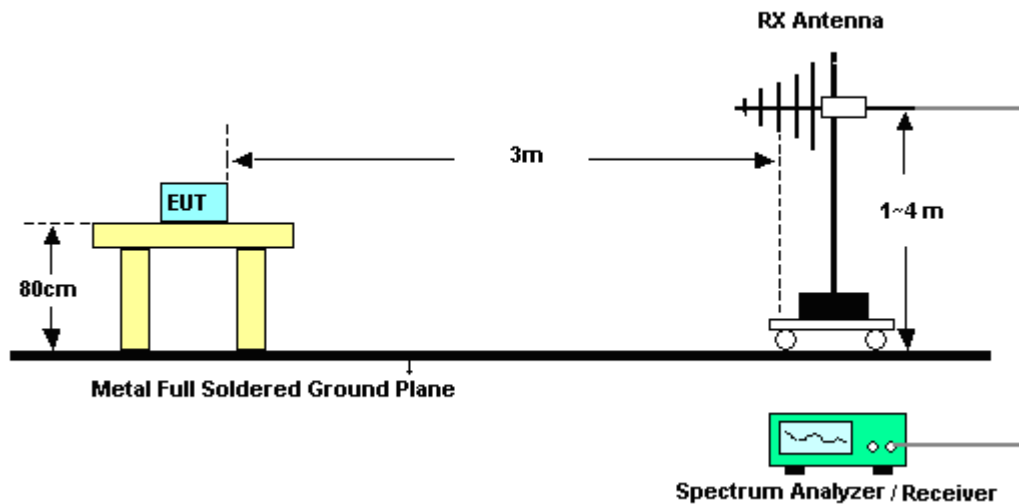
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

3.6.4 Test Setup

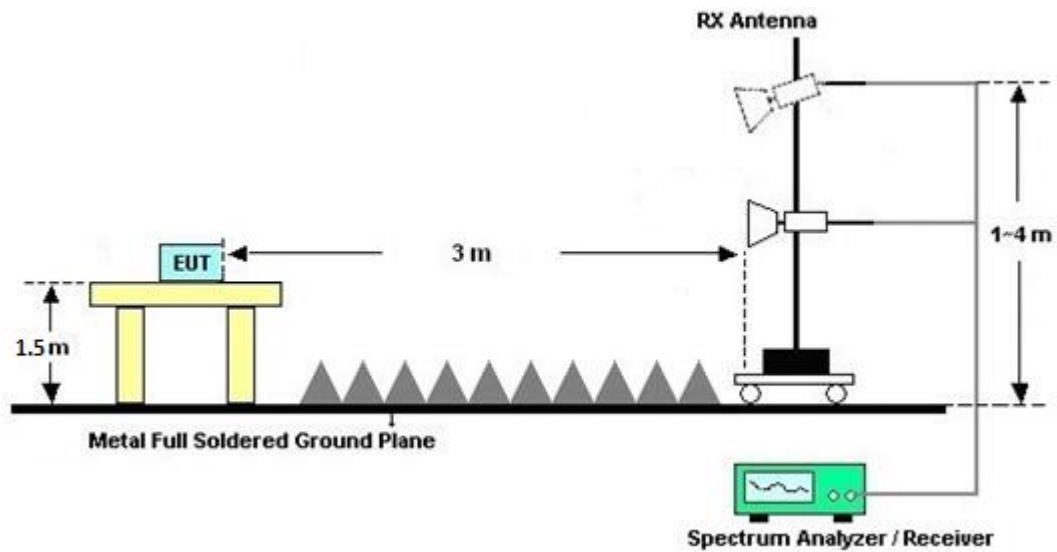
For radiated emissions below 30MHz



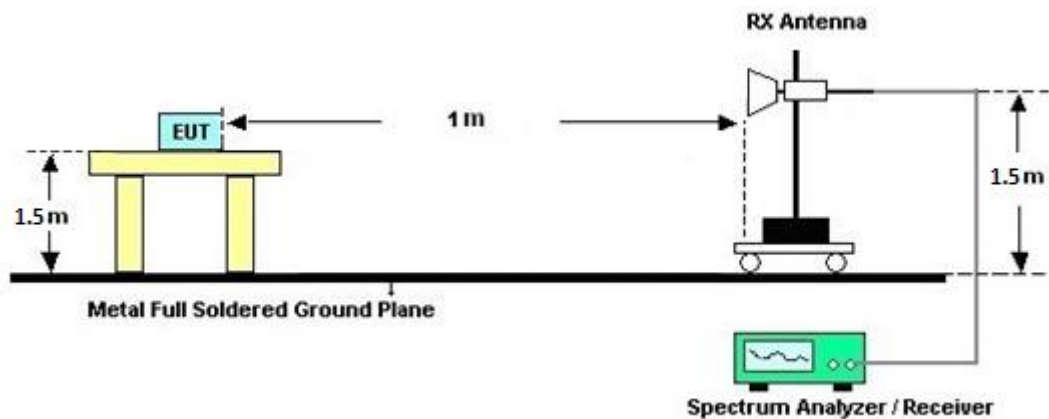
For radiated emissions from 30MHz to 1GHz



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 (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

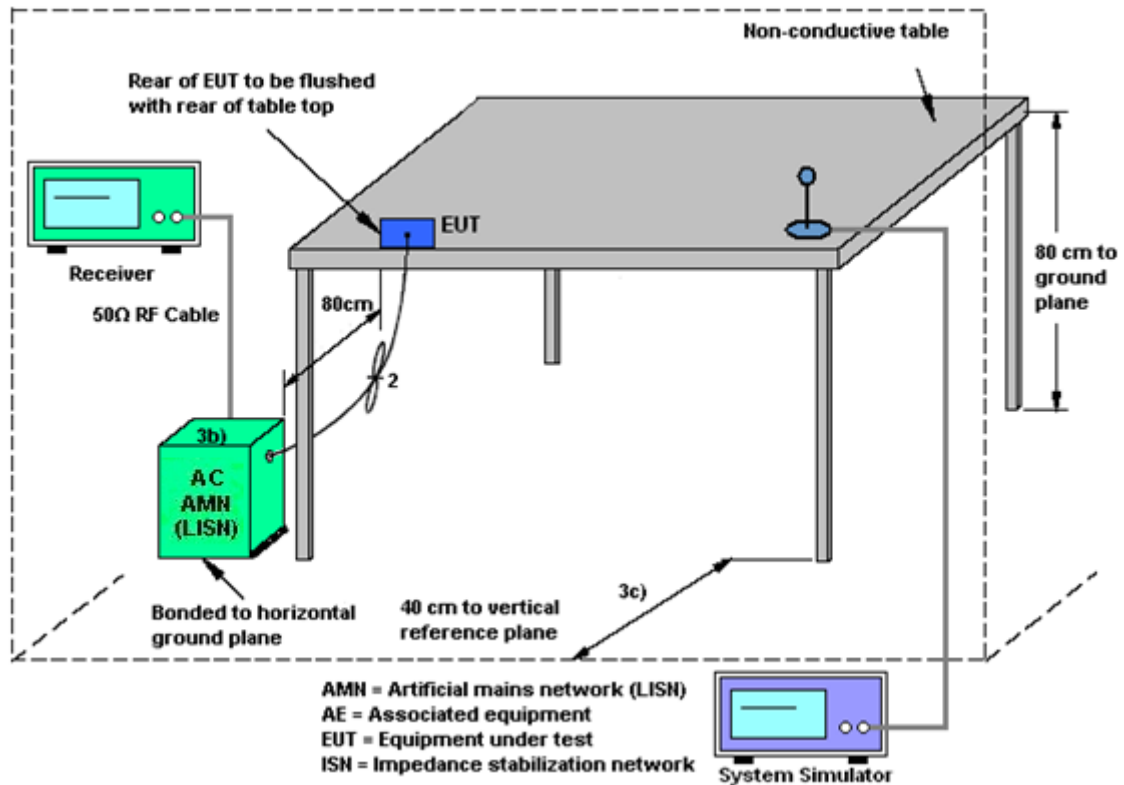
3.7.2 Measuring Instruments

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 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.2 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For power measurements on IEEE 802.11 devices,

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

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

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation follows F)2)f)ii) of KDB 662911 D01 v02r01.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k th antenna.

As minimum $N_{SS}=1$ is supported by EUT, the formula can be simplified as:

Directional gain = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi

Where $G_1, G_2, \dots, G_N$ denote single antenna gain.

For example: If a device has two antenna, $G_{ANT1}= 3.6$ dBi; $G_{ANT2}=4.2$ dBi

Directional gain of power measurement = $\max(3.6, 4.2) + 0 = 4.2$ dBi

Directional gain of PSD measurement = $10 \cdot \log[(10^{3.6/20} + 10^{4.2/20})^2 / 2] = 6.92$ dBi

The directional gain of EUT is listed in the following table.

			DG for Power (dBi)	DG for PSD (dBi)
	Ant. 4 (dBi)	Ant. 3 (dBi)		
5925 MHz ~ 6425 MHz	-2.90	-2.10	-2.10	0.52
6425 MHz ~ 6525 MHz	-3.60	-2.50	-2.50	-0.02
6525 MHz ~ 6875 MHz	-5.60	-5.70	-5.60	-2.64
6875 MHz ~ 7125 MHz	-6.20	-6.50	-6.20	-3.34

Calculation example:

For the band 5925~6425MHz, the DG for PSD is derived from formula is

$$10 \times \log \left\{ \left[10^{(-2.9 \text{ dBi} / 20)} + 10^{(-2.1 \text{ dBi} / 20)} \right]^2 / 2 \right\}$$

$$= 0.52 \text{ dBi}$$



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 07, 2021	Nov. 12, 2021~ Dec. 15, 2021	Sep. 06, 2022	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz to 1GHz	Oct. 09, 2021	Nov. 12, 2021~ Dec. 15, 2021	Oct. 08, 2022	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1522	1G~18GHz	Oct. 12, 2021	Nov. 12, 2021~ Dec. 15, 2021	Oct. 11, 2022	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00991	18GHz ~40GHz	May 12, 2021	Nov. 12, 2021~ Dec. 15, 2021	May 11, 2022	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 05, 2021	Nov. 12, 2021~ Dec. 15, 2021	Jul. 04, 2022	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-30 3	17100018000 54001	1-18GHz	Jun. 16, 2021	Nov. 12, 2021~ Jan. 10, 2022	Jun. 15, 2022	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 10, 2020	Nov. 12, 2021~ Dec. 08, 2021	Dec. 09, 2021	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 09, 2021	Dec. 09, 2021~ Jan. 10, 2022	Dec. 08, 2022	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Nov. 12, 2021~ Jan. 10, 2022	Jun. 21, 2022	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec. 11, 2020	Nov. 12, 2021~ Dec. 09, 2021	Dec. 10, 2021	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY59053012	3Hz~26.5GHz	Nov. 18, 2021	Dec. 10, 2021~ Jan. 10, 2022	Nov. 17, 2022	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9010A	MY54200485	3Hz ~40GHz	Mar. 05, 2021	Nov. 12, 2021~ Jan. 10, 2022	Mar. 04, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4P E	NA	Aug. 28, 2021	Nov. 12, 2021~ Jan. 10, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4P E	NA	Aug. 28, 2021	Nov. 12, 2021~ Jan. 10, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5 757	NA	Aug. 28, 2021	Nov. 12, 2021~ Jan. 10, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303B	TP200881	QA-3-031	Sep. 30, 2021	Nov. 12, 2021~ Jan. 10, 2022	Sep. 29, 2022	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Nov. 12, 2021~ Jan. 10, 2022	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Nov. 12, 2021~ Jan. 10, 2022	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Nov. 12, 2021~ Jan. 10, 2022	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Nov. 12, 2021~ Jan. 10, 2022	N/A	Radiation (03CH16-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. 15, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Nov. 15, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	TECEPEL	DTM-303A	TP201973	N/A	Oct. 22, 2021	Nov. 15, 2021	Oct. 21, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2020	Nov. 15, 2021	Nov. 30, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 15, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00691	N/A	Jul. 28, 2021	Nov. 15, 2021	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Nov. 15, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Nov. 22, 2021~ Feb. 16, 2022	Nov. 15, 2022	Conducted (TH05-HY)
USB Power Meter	Raditeq	RPR3006W #010	RPR6W-2101001 (NO:206)	10MHz~8GHz	Feb. 03, 2021	Nov. 22, 2021~ Feb. 01, 2022	Feb. 02, 2022	Conducted (TH05-HY)
USB Power Meter	Raditeq	RPR3006W #010	RPR6W-2101002 (NO:123)	10MHz~8GHz	Jan. 13, 2022	Feb. 01, 2022~ Feb. 16, 2022	Jan. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Nov. 22, 2021~ Feb. 16, 2022	Aug. 29, 2022	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW191204(BOX9)	N/A	Mar. 17, 2021	Nov. 22, 2021~ Feb. 16, 2022	Mar. 16, 2022	Conducted (TH05-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 Divider 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
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Benny Ku	Temperature:	21-25	°C
Test Date:	2021/11/22~2022/2/16	Relative Humidity:	51-54	%

TEST RESULTS DATA
26dB and 99% OBW

Band V MIMO									
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 4	Ant 3	Ant 4	Ant 3	
HE20	MCS0	2	5955	Full	19.23	19.18	22.10	21.75	
HE20	MCS0	2	6195	Full	19.18	19.18	22.05	21.60	
HE20	MCS0	2	6415	Full	19.18	19.18	21.75	21.75	
HE40	MCS0	2	5965	Full	37.76	37.76	39.69	39.78	
HE40	MCS0	2	6205	Full	37.86	37.76	39.78	39.78	
HE40	MCS0	2	6405	Full	37.86	37.86	40.05	39.87	
HE80	MCS0	2	5985	Full	76.96	77.08	82.56	81.76	
HE80	MCS0	2	6225	Full	77.32	77.08	82.40	81.60	
HE80	MCS0	2	6385	Full	77.20	77.08	82.08	82.40	
HE160	MCS0	2	6025	Full	156.80	156.32	166.40	166.40	
HE160	MCS0	2	6185	Full	156.80	156.80	166.08	166.40	
HE160	MCS0	2	6345	Full	156.80	156.80	166.40	166.40	

TEST RESULTS DATA
EIRP Power Table

FCC Band V MIMO												
Mod.	Data Rate	NTX	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	5955	Full	7.60	7.90	10.76	-2.10		8.66	24.00	Pass
HE20	MCS0	2	5955	26/0	0.20	0.20	3.21	-2.10		1.11	24.00	Pass
HE20	MCS0	2	5955	52/37	3.10	3.10	6.11	-2.10		4.01	24.00	Pass
HE20	MCS0	2	5955	106/53	5.90	5.90	8.91	-2.10		6.81	24.00	Pass
HE20	MCS0	2	6195	Full	5.90	6.30	9.11	-2.10		7.01	24.00	Pass
HE20	MCS0	2	6195	26/4	0.00	0.30	3.16	-2.10		1.06	24.00	Pass
HE20	MCS0	2	6195	52/39	1.90	1.90	4.91	-2.10		2.81	24.00	Pass
HE20	MCS0	2	6195	106/53	4.70	5.20	7.97	-2.10		5.87	24.00	Pass
HE20	MCS0	2	6415	Full	7.20	7.90	10.57	-2.10		8.47	24.00	Pass
HE20	MCS0	2	6415	26/8	0.30	2.00	4.24	-2.10		2.14	24.00	Pass
HE20	MCS0	2	6415	52/40	2.90	3.60	6.27	-2.10		4.17	24.00	Pass
HE20	MCS0	2	6415	106/54	5.60	6.30	8.97	-2.10		6.87	24.00	Pass
HE40	MCS0	2	5965	Full	10.30	10.50	13.41	-2.10		11.31	24.00	Pass
HE40	MCS0	2	6205	Full	10.60	10.80	13.71	-2.10		11.61	24.00	Pass
HE40	MCS0	2	6405	Full	10.30	10.70	13.51	-2.10		11.41	24.00	Pass
HE80	MCS0	2	5985	Full	13.40	13.40	16.41	-2.10		14.31	24.00	Pass
HE80	MCS0	2	6225	Full	13.20	13.70	16.47	-2.10		14.37	24.00	Pass
HE80	MCS0	2	6385	Full	13.00	13.20	16.11	-2.10		14.01	24.00	Pass
HE160	MCS0	2	6025	Full	16.10	16.50	19.31	-2.10		17.21	24.00	Pass
HE160	MCS0	2	6185	Full	16.40	16.40	19.41	-2.10		17.31	24.00	Pass
HE160	MCS0	2	6345	Full	16.20	16.00	19.11	-2.10		17.01	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band V MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config	Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3			
HE20	MCS0	2	5955	Full			-1.61	0.52		-1.09	-1.00	Pass
HE20	MCS0	2	5955	26/0			-1.71	0.52		-1.19	-1.00	Pass
HE20	MCS0	2	5955	52/37			-1.65	0.52		-1.13	-1.00	Pass
HE20	MCS0	2	5955	106/53			-1.80	0.52		-1.28	-1.00	Pass
HE20	MCS0	2	6195	Full			-3.25	0.52		-2.73	-1.00	Pass
HE20	MCS0	2	6195	26/4			-3.48	0.52		-2.96	-1.00	Pass
HE20	MCS0	2	6195	52/39			-3.42	0.52		-2.90	-1.00	Pass
HE20	MCS0	2	6195	106/53			-3.55	0.52		-3.03	-1.00	Pass
HE20	MCS0	2	6415	Full			-1.93	0.52		-1.41	-1.00	Pass
HE20	MCS0	2	6415	26/8			-2.06	0.52		-1.54	-1.00	Pass
HE20	MCS0	2	6415	52/40			-2.15	0.52		-1.63	-1.00	Pass
HE20	MCS0	2	6415	106/54			-2.49	0.52		-1.97	-1.00	Pass
HE40	MCS0	2	5965	Full			-1.89	0.52		-1.37	-1.00	Pass
HE40	MCS0	2	6205	Full			-1.87	0.52		-1.35	-1.00	Pass
HE40	MCS0	2	6405	Full			-1.75	0.52		-1.23	-1.00	Pass
HE80	MCS0	2	5985	Full			-1.67	0.52		-1.15	-1.00	Pass
HE80	MCS0	2	6225	Full			-1.60	0.52		-1.08	-1.00	Pass
HE80	MCS0	2	6385	Full			-1.71	0.52		-1.19	-1.00	Pass
HE160	MCS0	2	6025	Full			-1.58	0.52		-1.06	-1.00	Pass
HE160	MCS0	2	6185	Full			-1.81	0.52		-1.29	-1.00	Pass
HE160	MCS0	2	6345	Full			-1.78	0.52		-1.26	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band VI MIMO									
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 4	Ant 3	Ant 4	Ant 3	
HE20	MCS0	2	6435	Full	19.18	19.18	21.75	22.05	
HE20	MCS0	2	6475	Full	19.18	19.18	21.80	22.10	
HE20	MCS0	2	6515	Full	19.13	19.13	21.80	21.70	
HE40	MCS0	2	6445	Full	37.76	37.76	39.78	39.78	
HE40	MCS0	2	6485	Full	37.86	37.86	40.14	39.96	
HE80	MCS0	2	6465	Full	77.08	77.20	82.24	81.92	

Band VI straddle channel MIMO															
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
HE40	MCS0	2	6525	Full	37.86	37.86	39.96	39.96							
HE80	MCS0	2	6545	Full	77.08	77.08	82.08	81.76							
HE160	MCS0	2	6505	Full	156.56	156.80	166.08	166.08							

TEST RESULTS DATA
EIRP Power Table

FCC Band VI MIMO												
Mod.	Data Rate	NTX	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			
HE20	MCS0	2	6435	Full	8.20	8.70	11.47	-2.50		8.97	24.00	Pass
HE20	MCS0	2	6435	26/0	1.10	1.10	4.11	-2.50		1.61	24.00	Pass
HE20	MCS0	2	6435	52/37	3.80	4.10	6.96	-2.50		4.46	24.00	Pass
HE20	MCS0	2	6435	106/53	6.70	7.40	10.07	-2.50		7.57	24.00	Pass
HE20	MCS0	2	6475	Full	8.20	8.50	11.36	-2.50		8.86	24.00	Pass
HE20	MCS0	2	6475	26/4	1.70	2.10	4.91	-2.50		2.41	24.00	Pass
HE20	MCS0	2	6475	52/39	3.60	3.80	6.71	-2.50		4.21	24.00	Pass
HE20	MCS0	2	6475	106/54	6.50	7.00	9.77	-2.50		7.27	24.00	Pass
HE20	MCS0	2	6515	Full	8.30	8.60	11.46	-2.50		8.96	24.00	Pass
HE20	MCS0	2	6515	26/8	0.70	1.20	3.97	-2.50		1.47	24.00	Pass
HE20	MCS0	2	6515	52/40	3.10	3.60	6.37	-2.50		3.87	24.00	Pass
HE20	MCS0	2	6515	106/54	6.50	7.00	9.77	-2.50		7.27	24.00	Pass
HE40	MCS0	2	6445	Full	11.10	11.20	14.16	-2.50		11.66	24.00	Pass
HE40	MCS0	2	6485	Full	11.30	11.50	14.41	-2.50		11.91	24.00	Pass
HE80	MCS0	2	6465	Full	13.70	14.20	16.97	-2.50		14.47	24.00	Pass

FCC Band VI straddle channel MIMO												
Mod.	Data Rate	NTX	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			
HE40	MCS0	2	6525	Full	11.40	11.50	14.46	-2.50		11.96	24.00	Pass
HE80	MCS0	2	6545	Full	14.20	13.90	17.06	-2.50		14.56	24.00	Pass
HE160	MCS0	2	6505	Full	16.80	16.60	19.71	-2.50		17.21	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

Band VI MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config	Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3			
HE20	MCS0	2	6435	Full			-1.09	-0.02		-1.11	-1.00	Pass
HE20	MCS0	2	6435	26/0			-1.32	-0.02		-1.34	-1.00	Pass
HE20	MCS0	2	6435	52/37			-1.27	-0.02		-1.29	-1.00	Pass
HE20	MCS0	2	6435	106/53			-1.15	-0.02		-1.17	-1.00	Pass
HE20	MCS0	2	6475	Full			-1.15	-0.02		-1.17	-1.00	Pass
HE20	MCS0	2	6475	26/4			-1.44	-0.02		-1.46	-1.00	Pass
HE20	MCS0	2	6475	52/39			-1.37	-0.02		-1.39	-1.00	Pass
HE20	MCS0	2	6475	106/54			-1.38	-0.02		-1.40	-1.00	Pass
HE20	MCS0	2	6515	Full			-1.20	-0.02		-1.22	-1.00	Pass
HE20	MCS0	2	6515	26/8			-1.28	-0.02		-1.30	-1.00	Pass
HE20	MCS0	2	6515	52/40			-1.80	-0.02		-1.82	-1.00	Pass
HE20	MCS0	2	6515	106/54			-1.62	-0.02		-1.65	-1.00	Pass
HE40	MCS0	2	6445	Full			-1.27	-0.02		-1.29	-1.00	Pass
HE40	MCS0	2	6485	Full			-1.04	-0.02		-1.06	-1.00	Pass
HE80	MCS0	2	6465	Full			-1.20	-0.02		-1.22	-1.00	Pass

FCC Band VI straddle channel MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config	Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3			
HE40	MCS0	2	6525	Full			-1.13	-0.02		-1.16	-1.00	Pass
HE80	MCS0	2	6545	Full			-1.02	-0.02		-1.04	-1.00	Pass
HE160	MCS0	2	6505	Full			-0.98	-0.02		-1.00	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band VII MIMO									
Mod.	Data Rate	N _{TX}	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 4	Ant 3	Ant 4	Ant 3	
HE20	MCS0	2	6535	Full	19.13	19.18	21.85	21.70	
HE20	MCS0	2	6695	Full	19.13	19.18	21.85	21.60	
HE20	MCS0	2	6855	Full	19.08	19.18	21.70	21.75	
HE40	MCS0	2	6565	Full	37.76	37.86	39.96	39.96	
HE40	MCS0	2	6685	Full	37.76	37.86	39.87	39.96	
HE40	MCS0	2	6845	Full	37.86	37.76	39.96	39.96	
HE80	MCS0	2	6625	Full	77.08	76.96	82.56	82.08	
HE80	MCS0	2	6705	Full	77.20	77.08	82.72	82.08	
HE80	MCS0	2	6785	Full	77.32	77.20	82.72	81.60	
HE160	MCS0	2	6665	Full	157.28	157.52	282.88	293.46	

Band VII straddle channel MIMO															
Mod.	Data Rate	N _{TX}	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
HE20	MCS0	2	6875	Full	19.13	19.13	21.90	21.90							
HE40	MCS0	2	6885	Full	37.86	37.86	39.78	39.96							
HE80	MCS0	2	6865	Full	77.08	77.08	82.08	82.08							
HE160	MCS0	2	6825	Full	157.52	156.80	264.96	262.72							

TEST RESULTS DATA
EIRP Power Table

FCC Band VII MIMO												
Mod.	Data Rate	NTX	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	6535	Full	11.40	11.40	14.41	-5.60		8.81	24.00	Pass
HE20	MCS0	2	6535	26/0	3.80	3.60	6.71	-5.60		1.11	24.00	Pass
HE20	MCS0	2	6535	52/37	6.40	7.00	9.72	-5.60		4.12	24.00	Pass
HE20	MCS0	2	6535	106/53	10.00	10.10	13.06	-5.60		7.46	24.00	Pass
HE20	MCS0	2	6695	Full	11.20	11.20	14.21	-5.60		8.61	24.00	Pass
HE20	MCS0	2	6695	26/4	4.90	4.90	7.91	-5.60		2.31	24.00	Pass
HE20	MCS0	2	6695	52/38	6.60	7.00	9.81	-5.60		4.21	24.00	Pass
HE20	MCS0	2	6695	106/53	9.90	10.10	13.01	-5.60		7.41	24.00	Pass
HE20	MCS0	2	6855	Full	11.50	10.60	14.08	-5.60		8.48	24.00	Pass
HE20	MCS0	2	6855	26/8	4.40	3.10	6.81	-5.60		1.21	24.00	Pass
HE20	MCS0	2	6855	52/40	7.20	5.80	9.57	-5.60		3.97	24.00	Pass
HE20	MCS0	2	6855	106/54	9.30	9.70	12.51	-5.60		6.91	24.00	Pass
HE40	MCS0	2	6565	Full	13.70	13.10	16.42	-5.60		10.82	24.00	Pass
HE40	MCS0	2	6685	Full	13.60	13.30	16.46	-5.60		10.86	24.00	Pass
HE40	MCS0	2	6845	Full	14.10	12.60	16.42	-5.60		10.82	24.00	Pass
HE80	MCS0	2	6625	Full	16.20	16.00	19.11	-5.60		13.51	24.00	Pass
HE80	MCS0	2	6705	Full	16.30	16.20	19.26	-5.60		13.66	24.00	Pass
HE80	MCS0	2	6785	Full	17.20	16.30	19.78	-5.60		14.18	24.00	Pass
HE160	MCS0	2	6665	Full	19.00	18.80	21.91	-5.60		16.31	24.00	Pass

FCC Band VII straddle channel MIMO												
Mod.	Data Rate	NTX	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			
HE20	MCS0	2	6875	Full	11.60	11.00	14.32	-5.60		8.72	24.00	Pass
HE20	MCS0	2	6875	26/8	4.70	3.00	6.94	-5.60		1.34	24.00	Pass
HE20	MCS0	2	6875	52/40	7.40	6.00	9.77	-5.60		4.17	24.00	Pass
HE20	MCS0	2	6875	106/54	8.90	9.50	12.22	-5.60		6.62	24.00	Pass
HE40	MCS0	2	6885	Full	13.80	12.70	16.30	-5.60		10.70	24.00	Pass
HE80	MCS0	2	6865	Full	16.30	15.90	19.11	-5.60		13.51	24.00	Pass
HE160	MCS0	2	6825	Full	19.00	18.70	21.86	-5.60		16.26	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VII MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config	Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3			
HE20	MCS0	2	6535	Full			1.48	-2.64		-1.16	-1.00	Pass
HE20	MCS0	2	6535	26/0			1.24	-2.64		-1.40	-1.00	Pass
HE20	MCS0	2	6535	52/37			1.29	-2.64		-1.35	-1.00	Pass
HE20	MCS0	2	6535	106/53			1.39	-2.64		-1.25	-1.00	Pass
HE20	MCS0	2	6695	Full			1.54	-2.64		-1.10	-1.00	Pass
HE20	MCS0	2	6695	26/4			1.51	-2.64		-1.13	-1.00	Pass
HE20	MCS0	2	6695	52/38			1.23	-2.64		-1.41	-1.00	Pass
HE20	MCS0	2	6695	106/53			1.31	-2.64		-1.33	-1.00	Pass
HE20	MCS0	2	6855	Full			1.25	-2.64		-1.39	-1.00	Pass
HE20	MCS0	2	6855	26/8			1.23	-2.64		-1.41	-1.00	Pass
HE20	MCS0	2	6855	52/40			1.22	-2.64		-1.42	-1.00	Pass
HE20	MCS0	2	6855	106/54			0.90	-2.64		-1.74	-1.00	Pass
HE40	MCS0	2	6565	Full			1.38	-2.64		-1.26	-1.00	Pass
HE40	MCS0	2	6685	Full			1.32	-2.64		-1.32	-1.00	Pass
HE40	MCS0	2	6845	Full			1.33	-2.64		-1.31	-1.00	Pass
HE80	MCS0	2	6625	Full			1.27	-2.64		-1.37	-1.00	Pass
HE80	MCS0	2	6705	Full			1.38	-2.64		-1.26	-1.00	Pass
HE80	MCS0	2	6785	Full			1.46	-2.64		-1.18	-1.00	Pass
HE160	MCS0	2	6665	Full			1.58	-2.64		-1.06	-1.00	Pass

FCC Band VII straddle channel MIMO												
Mod.	Data Rate	N _{TX}	Freq. (MHz)	RU Config	Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3			
HE20	MCS0	2	6875	Full			1.48	-2.64		-1.16	-1.00	Pass
HE20	MCS0	2	6875	26/8			1.43	-2.64		-1.21	-1.00	Pass
HE20	MCS0	2	6875	52/40			1.41	-2.64		-1.23	-1.00	Pass
HE20	MCS0	2	6875	106/54			0.74	-2.64		-1.90	-1.00	Pass
HE40	MCS0	2	6885	Full			1.36	-2.64		-1.28	-1.00	Pass
HE80	MCS0	2	6865	Full			1.37	-2.64		-1.27	-1.00	Pass
HE160	MCS0	2	6825	Full			1.48	-2.64		-1.16	-1.00	Pass

TEST RESULTS DATA
26dB EBW and 99% OBW

Band VIII MIMO									
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 4	Ant 3	Ant 4	Ant 3	
HE20	MCS0	2	6895	Full	19.13	19.08	21.90	21.50	
HE20	MCS0	2	6995	Full	19.03	19.03	21.60	21.60	
HE20	MCS0	2	7095	Full	19.08	19.08	21.80	21.60	
HE40	MCS0	2	6925	Full	37.86	37.86	39.69	39.87	
HE40	MCS0	2	7005	Full	37.76	37.76	39.96	39.69	
HE40	MCS0	2	7085	Full	37.86	37.86	39.96	39.78	
HE80	MCS0	2	6945	Full	77.20	77.08	83.84	81.60	
HE80	MCS0	2	7025	Full	77.08	77.08	87.04	81.76	
HE160	MCS0	2	6985	Full	157.52	157.28	239.68	258.76	

TEST RESULTS DATA
EIRP Power Table

Band VIII MIMO												
Mod.	Data Rate	NTX	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			
HE20	MCS0	2	6895	Full	12.40	11.70	15.07	-6.20		8.87	24.00	Pass
HE20	MCS0	2	6895	26/0	4.40	3.70	7.07	-6.20		0.87	24.00	Pass
HE20	MCS0	2	6895	52/37	7.00	6.90	9.96	-6.20		3.76	24.00	Pass
HE20	MCS0	2	6895	106/53	9.30	9.90	12.62	-6.20		6.42	24.00	Pass
HE20	MCS0	2	6995	Full	12.30	11.40	14.88	-6.20		8.68	24.00	Pass
HE20	MCS0	2	6995	26/4	5.60	4.60	8.14	-6.20		1.94	24.00	Pass
HE20	MCS0	2	6995	52/38	7.60	6.90	10.27	-6.20		4.07	24.00	Pass
HE20	MCS0	2	6995	106/53	10.60	10.00	13.32	-6.20		7.12	24.00	Pass
HE20	MCS0	2	7095	Full	12.50	11.40	15.00	-6.20		8.80	24.00	Pass
HE20	MCS0	2	7095	26/8	4.80	3.20	7.08	-6.20		0.88	24.00	Pass
HE20	MCS0	2	7095	52/40	7.60	6.40	10.05	-6.20		3.85	24.00	Pass
HE20	MCS0	2	7095	106/54	10.40	9.40	12.94	-6.20		6.74	24.00	Pass
HE40	MCS0	2	6925	Full	15.10	13.80	17.51	-6.20		11.31	24.00	Pass
HE40	MCS0	2	7005	Full	14.60	13.40	17.05	-6.20		10.85	24.00	Pass
HE40	MCS0	2	7085	Full	14.70	13.50	17.15	-6.20		10.95	24.00	Pass
HE80	MCS0	2	6945	Full	17.60	16.40	20.05	-6.20		13.85	24.00	Pass
HE80	MCS0	2	7025	Full	17.60	16.10	19.92	-6.20		13.72	24.00	Pass
HE160	MCS0	2	6985	Full	19.00	18.10	21.58	-6.20		15.38	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VIII MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config	Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3			
HE20	MCS0	2	6895	Full			2.22	-3.34	-1.12	-1.00	Pass	
HE20	MCS0	2	6895	26/0			1.95	-3.34	-1.39	-1.00	Pass	
HE20	MCS0	2	6895	52/37			2.01	-3.34	-1.33	-1.00	Pass	
HE20	MCS0	2	6895	106/53			1.32	-3.34	-2.02	-1.00	Pass	
HE20	MCS0	2	6995	Full			2.31	-3.34	-1.03	-1.00	Pass	
HE20	MCS0	2	6995	26/4			2.16	-3.34	-1.18	-1.00	Pass	
HE20	MCS0	2	6995	52/38			2.26	-3.34	-1.08	-1.00	Pass	
HE20	MCS0	2	6995	106/53			2.22	-3.34	-1.12	-1.00	Pass	
HE20	MCS0	2	7095	Full			2.10	-3.34	-1.24	-1.00	Pass	
HE20	MCS0	2	7095	26/8			1.99	-3.34	-1.35	-1.00	Pass	
HE20	MCS0	2	7095	52/40			1.73	-3.34	-1.61	-1.00	Pass	
HE20	MCS0	2	7095	106/54			1.86	-3.34	-1.47	-1.00	Pass	
HE40	MCS0	2	6925	Full			2.32	-3.34	-1.02	-1.00	Pass	
HE40	MCS0	2	7005	Full			2.15	-3.34	-1.19	-1.00	Pass	
HE40	MCS0	2	7085	Full			2.18	-3.34	-1.16	-1.00	Pass	
HE80	MCS0	2	6945	Full			2.19	-3.34	-1.15	-1.00	Pass	
HE80	MCS0	2	7025	Full			2.05	-3.34	-1.29	-1.00	Pass	
HE160	MCS0	2	6985	Full			2.33	-3.34	-1.01	-1.00	Pass	



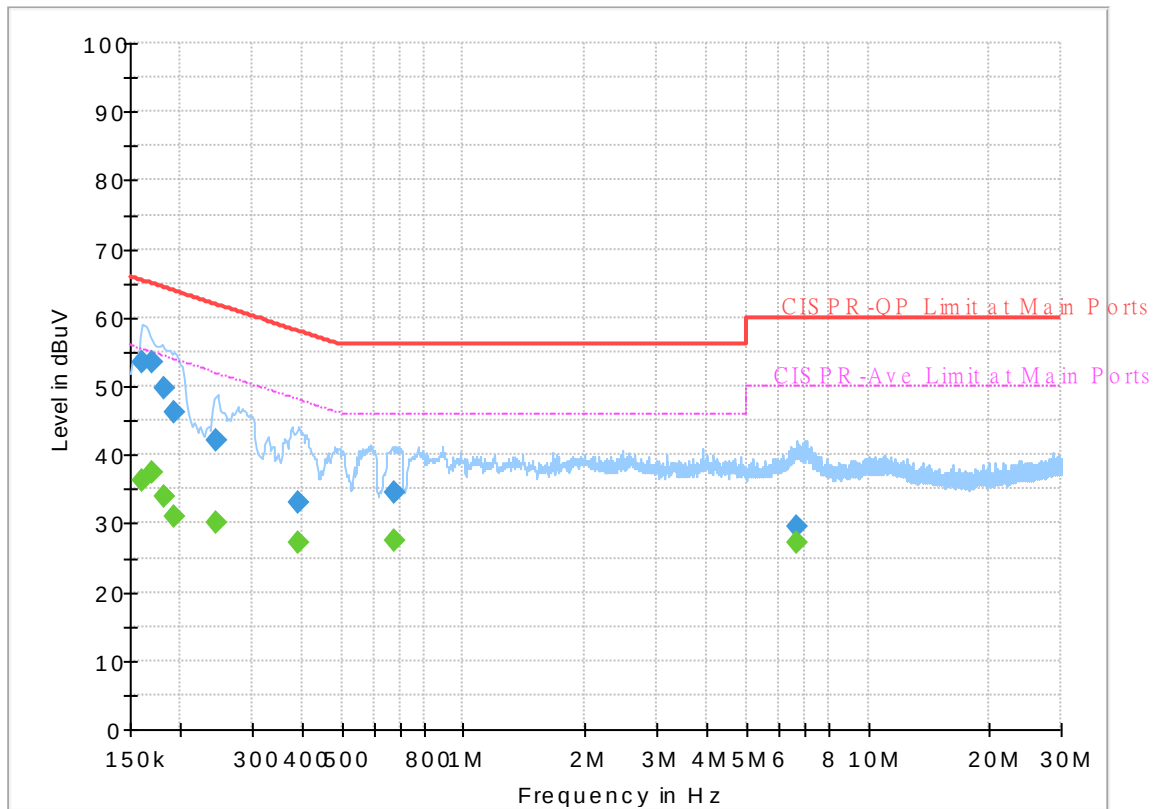
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO : 161608-03
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



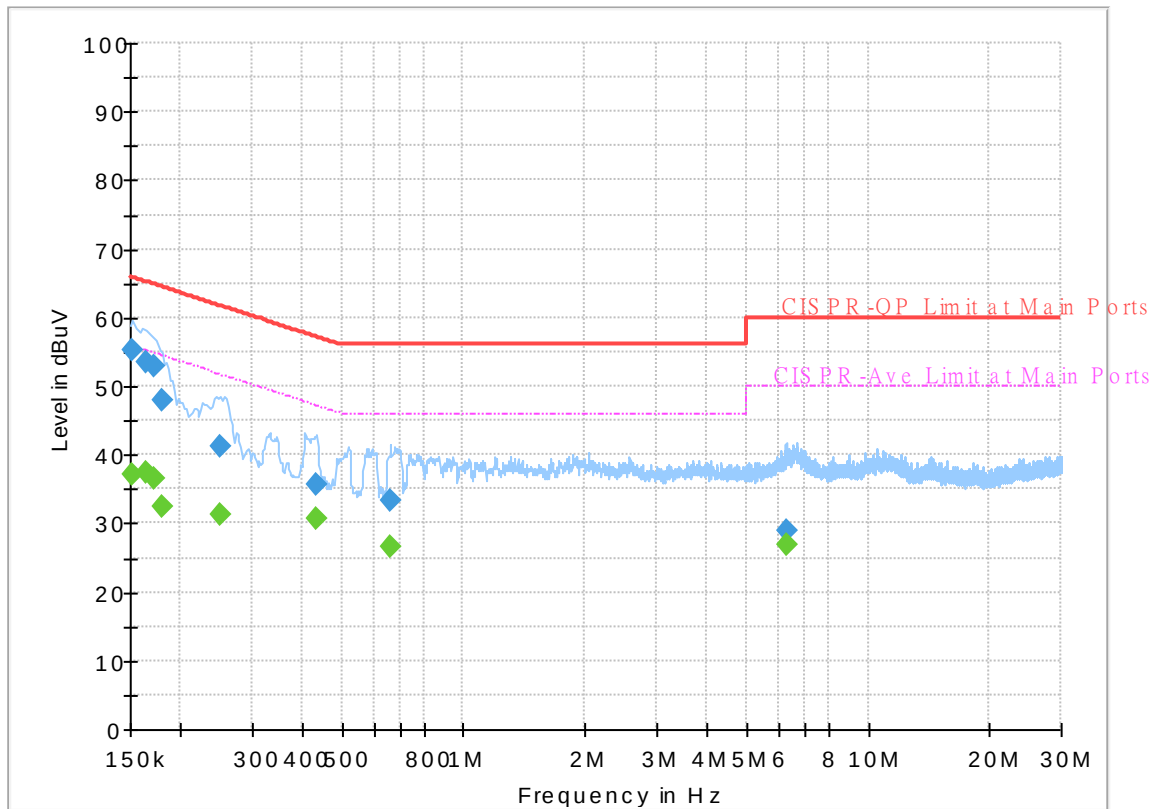
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	36.34	55.40	19.06	L1	OFF	19.7
0.161250	53.46	---	65.40	11.94	L1	OFF	19.7
0.170250	---	37.51	54.95	17.44	L1	OFF	19.7
0.170250	53.51	---	64.95	11.44	L1	OFF	19.7
0.181500	---	34.03	54.42	20.39	L1	OFF	19.7
0.181500	49.69	---	64.42	14.73	L1	OFF	19.7
0.192750	---	30.99	53.92	22.93	L1	OFF	19.7
0.192750	46.17	---	63.92	17.75	L1	OFF	19.7
0.244500	---	30.19	51.94	21.75	L1	OFF	19.7
0.244500	42.02	---	61.94	19.92	L1	OFF	19.7
0.390750	---	27.10	48.05	20.95	L1	OFF	19.7
0.390750	32.99	---	58.05	25.06	L1	OFF	19.7
0.676500	---	27.41	46.00	18.59	L1	OFF	20.0
0.676500	34.51	---	56.00	21.49	L1	OFF	20.0
6.690750	---	27.20	50.00	22.80	L1	OFF	20.1
6.690750	29.57	---	60.00	30.43	L1	OFF	20.1

EUT Information

Report NO : 161608-03
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	37.17	55.88	18.71	N	OFF	19.7
0.152250	55.26	---	65.88	10.62	N	OFF	19.7
0.163500	---	37.51	55.28	17.77	N	OFF	19.7
0.163500	53.51	---	65.28	11.77	N	OFF	19.7
0.172500	---	36.68	54.84	18.16	N	OFF	19.7
0.172500	52.97	---	64.84	11.87	N	OFF	19.7
0.179250	---	32.56	54.52	21.96	N	OFF	19.7
0.179250	47.85	---	64.52	16.67	N	OFF	19.7
0.251250	---	31.32	51.72	20.40	N	OFF	19.7
0.251250	41.15	---	61.72	20.57	N	OFF	19.7
0.433500	---	30.63	47.19	16.56	N	OFF	19.7
0.433500	35.80	---	57.19	21.39	N	OFF	19.7
0.658500	---	26.57	46.00	19.43	N	OFF	20.0
0.658500	33.39	---	56.00	22.61	N	OFF	20.0
6.263250	---	26.87	50.00	23.13	N	OFF	20.1
6.263250	29.07	---	60.00	30.93	N	OFF	20.1



Appendix C. Radiated Spurious Emission

Test Engineer :	Karl Hou and Andy Yang	Temperature :	20~25°C
		Relative Humidity :	50~60%

Band 5 - 5925~6425MHz

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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 CH 1 5955MHz		5875.24	53.88	-34.32	88.2	38.8	32.2	12.75	29.87	198	233	P	H
		5796.84	42.92	-25.28	68.2	27.77	32	12.99	29.84	198	233	A	H
		5011.4	54.25	-19.75	74	40.46	31.62	11.82	29.65	-	-	P	H
		5011.4	43.42	-10.58	54	29.63	31.62	11.82	29.65	-	-	A	H
		5389.6	53.26	-20.74	74	38.78	31.44	12.75	29.71	-	-	P	H
		5389.6	43.94	-10.06	54	29.46	31.44	12.75	29.71	-	-	A	H
	*	5955	102	-	-	86.93	32.48	12.49	29.9	198	233	P	H
	*	5955	90.83	-	-	75.76	32.48	12.49	29.9	198	233	A	H
		5897.96	53.53	-34.67	88.2	38.54	32.2	12.67	29.88	315	0	P	V
		5833.64	42.84	-25.36	68.2	27.69	32.13	12.88	29.86	315	0	A	V
		4831.6	52.86	-21.14	74	39.48	31.14	11.86	29.62	-	-	P	V
		4831.6	42.4	-11.6	54	29.02	31.14	11.86	29.62	-	-	A	V
		5439.2	54.1	-19.9	74	39.35	31.66	12.81	29.72	-	-	P	V
		5439.2	43.6	-10.4	54	28.85	31.66	12.81	29.72	-	-	A	V
	*	5955	96.79	-	-	81.72	32.48	12.49	29.9	315	0	P	V
	*	5955	85.85	-	-	70.78	32.48	12.49	29.9	315	0	A	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 5 5955~6425MHz

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

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 3 5965MHz		5899.56	54.96	-33.24	88.2	39.97	32.2	12.67	29.88	189	229	P	H
		5923.24	43.52	-24.68	68.2	28.48	32.34	12.59	29.89	189	229	A	H
		4986.6	53.25	-20.75	74	39.55	31.55	11.8	29.65	-	-	P	H
		4986.6	43.35	-10.65	54	29.65	31.55	11.8	29.65	-	-	A	H
		5395.8	54.34	-19.66	74	39.8	31.47	12.78	29.71	-	-	P	H
		5395.8	44.28	-9.72	54	29.74	31.47	12.78	29.71	-	-	A	H
	*	5965	101.8	-	-	86.82	32.44	12.45	29.91	189	229	P	H
	*	5965	91.17	-	-	76.19	32.44	12.45	29.91	189	229	A	H
		5800.04	53.96	-34.24	88.2	38.81	32	12.99	29.84	318	0	P	V
		5869.16	42.94	-25.26	68.2	27.84	32.2	12.77	29.87	318	0	A	V
		5017.6	54.1	-19.9	74	40.28	31.64	11.83	29.65	-	-	P	V
		5017.6	44.08	-9.92	54	30.26	31.64	11.83	29.65	-	-	A	V
		5402	54.07	-19.93	74	39.48	31.51	12.79	29.71	-	-	P	P
		5402	44.43	-9.57	54	29.84	31.51	12.79	29.71	-	-	A	A
	*	5965	95.76	-	-	80.78	32.44	12.45	29.91	318	0	P	V
	*	5965	85.79	-	-	70.81	32.44	12.45	29.91	318	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 5 5955~6425MHz

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

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 7 5985MHz		5909.8	55.02	-33.18	88.2	40.02	32.26	12.63	29.89	160	223	P	H
		5883.56	45.1	-23.1	68.2	30.06	32.2	12.72	29.88	160	223	A	H
		4726.2	53.94	-20.06	74	40.64	31.1	11.81	29.61	-	-	P	H
		4726.2	43.53	-10.47	54	30.23	31.1	11.81	29.61	-	-	A	H
		5420.6	53.55	-20.45	74	38.89	31.58	12.8	29.72	-	-	P	H
		5420.6	45.1	-8.9	54	30.44	31.58	12.8	29.72	-	-	A	H
	*	5985	100.74	-	-	85.9	32.36	12.39	29.91	160	223	P	H
	*	5985	91.38	-	-	76.54	32.36	12.39	29.91	160	223	A	H
		5848.04	53.43	-34.77	88.2	38.27	32.19	12.83	29.86	332	1	P	V
		5919.08	44.21	-23.99	68.2	29.19	32.31	12.6	29.89	332	1	A	V
		5023.8	54.98	-19.02	74	41.14	31.65	11.84	29.65	-	-	P	V
		5023.8	43.48	-10.52	54	29.64	31.65	11.84	29.65	-	-	A	V
		5433	55.14	-18.86	74	40.43	31.63	12.8	29.72	-	-	P	V
		5433	44.53	-9.47	54	29.82	31.63	12.8	29.72	-	-	A	V
	*	5985	94.54	-	-	79.7	32.36	12.39	29.91	332	1	P	V
	*	5985	85.53	-	-	70.69	32.36	12.39	29.91	332	1	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 5 5955~6425MHz

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

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 15 6025MHz		5918.76	67.86	-20.34	88.2	52.84	32.31	12.6	29.89	152	231	P	H
		5918.76	56.8	-11.4	68.2	41.78	32.31	12.6	29.89	152	231	A	H
		4738.6	53.98	-20.02	74	40.67	31.1	11.82	29.61	-	-	P	H
		4738.6	43.75	-10.25	54	30.44	31.1	11.82	29.61	-	-	A	H
		5402	53.03	-20.97	74	38.44	31.51	12.79	29.71	-	-	P	H
		5402	45.01	-8.99	54	30.42	31.51	12.79	29.71	-	-	A	H
	*	6025	99.86	-	-	84.85	32.4	12.54	29.93	152	231	P	H
	*	6025	91.39	-	-	76.38	32.4	12.54	29.93	152	231	A	H
		5923.24	61.51	-26.69	88.2	46.47	32.34	12.59	29.89	320	1	P	V
		5918.76	50.94	-17.26	68.2	35.92	32.31	12.6	29.89	320	1	A	V
		5110.6	53.75	-20.25	74	39.57	31.88	11.97	29.67	-	-	P	V
		5110.6	44.64	-9.36	54	30.46	31.88	11.97	29.67	-	-	A	V
		5408.2	53.63	-20.37	74	39.03	31.53	12.79	29.72	-	-	P	V
		5408.2	45.24	-8.76	54	30.64	31.53	12.79	29.72	-	-	A	V
	*	6025	94.36	-	-	79.35	32.4	12.54	29.93	320	1	P	V
	*	6025	85.36	-	-	70.35	32.4	12.54	29.93	320	1	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 5 5955~6425MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 15 6025MHz		10880	51.19	-22.81	74	53.7	40.34	18.72	61.57	-	-	P	H
		10880	42.14	-11.86	54	44.65	40.34	18.72	61.57	-	-	A	H
		12050	49.47	-24.53	74	51.87	38.95	19.57	60.92	-	-	P	H
		12050	41.21	-12.79	54	43.61	38.95	19.57	60.92	-	-	A	H
		14488	53	-21	74	50.04	42	21.77	60.81	-	-	P	H
		14488	43.82	-10.18	54	40.86	42	21.77	60.81	-	-	A	H
		17936	61.49	-12.51	74	45.69	47.73	24.95	56.88	-	-	P	H
		17936	47.42	-6.58	54	31.62	47.73	24.95	56.88	-	-	A	H
		18075	36.11	-37.89	74	58.27	37.39	-3.72	55.83	-	-	P	H
		10880	51.83	-22.17	74	54.34	40.34	18.72	61.57	-	-	P	V
		10880	41.82	-12.18	54	44.33	40.34	18.72	61.57	-	-	A	V
		12050	49.61	-24.39	74	52.01	38.95	19.57	60.92	-	-	P	V
		12050	41.04	-12.96	54	43.44	38.95	19.57	60.92	-	-	A	V
		14491	53.39	-20.61	74	50.43	42	21.77	60.81	-	-	P	V
		14491	44.01	-9.99	54	41.05	42	21.77	60.81	-	-	A	V
		17944	61.06	-12.94	74	45.07	47.91	24.95	56.87	-	-	P	V
		17944	47.65	-6.35	54	31.66	47.91	24.95	56.87	-	-	A	V
		18075	35.24	-38.76	74	57.4	37.39	-3.72	55.83	-	-	P	V



802.11ax HE160 Full CH 47 6185MHz		10880	51.36	-22.64	74	53.87	40.34	18.72	61.57	-	-	P	H
		10880	42.47	-11.53	54	44.98	40.34	18.72	61.57	-	-	A	H
		12370	50.15	-23.85	74	53.03	38.32	19.85	61.05	-	-	P	H
		12370	40.81	-13.19	54	43.69	38.32	19.85	61.05	-	-	A	H
		14491	52.6	-21.4	74	49.64	42	21.77	60.81	-	-	P	H
		14491	44.21	-9.79	54	41.25	42	21.77	60.81	-	-	A	H
		17968	61.62	-12.38	74	45.04	48.46	24.96	56.84	-	-	P	H
		17968	47.85	-6.15	54	31.27	48.46	24.96	56.84	-	-	A	H
		18555	36.28	-37.72	74	57.64	37.61	-3.6	55.37	-	-	P	H
		10880	52.01	-21.99	74	54.52	40.34	18.72	61.57	-	-	P	V
		10880	42.26	-11.74	54	44.77	40.34	18.72	61.57	-	-	A	V
		12370	49.01	-24.99	74	51.89	38.32	19.85	61.05	-	-	P	V
		12370	40.54	-13.46	54	43.42	38.32	19.85	61.05	-	-	A	V
		14488	53.74	-20.26	74	50.78	42	21.77	60.81	-	-	P	V
		14488	43.9	-10.1	54	40.94	42	21.77	60.81	-	-	A	V
		17952	61.41	-12.59	74	45.22	48.1	24.95	56.86	-	-	P	V
		17952	47.66	-6.34	54	31.47	48.1	24.95	56.86	-	-	A	V
		18555	36.11	-37.89	74	57.47	37.61	-3.6	55.37	-	-	P	V



802.11ax HE160 Full CH 79 6345MHz		10880	52.17	-21.83	74	54.68	40.34	18.72	61.57	-	-	P	H
		10880	42.28	-11.72	54	44.79	40.34	18.72	61.57	-	-	A	H
		12690	49.4	-24.6	74	52.03	38.3	20.13	61.06	-	-	P	H
		12690	40.27	-13.73	54	42.9	38.3	20.13	61.06	-	-	A	H
		14491	53.63	-20.37	74	50.67	42	21.77	60.81	-	-	P	H
		14491	44.08	-9.92	54	41.12	42	21.77	60.81	-	-	A	H
		17960	61.87	-12.13	74	45.48	48.28	24.96	56.85	-	-	P	H
		17960	47.56	-6.44	54	31.17	48.28	24.96	56.85	-	-	A	H
		19035	37.03	-36.97	74	57.8	37.99	-3.67	55.09	-	-	P	V
		10880	51.68	-22.32	74	54.19	40.34	18.72	61.57	-	-	A	V
		10880	41.9	-12.1	54	44.41	40.34	18.72	61.57	-	-	P	V
		12690	48.49	-25.51	74	51.12	38.3	20.13	61.06	-	-	A	V
		12690	40.48	-13.52	54	43.11	38.3	20.13	61.06	-	-	P	V
		14491	53.71	-20.29	74	50.75	42	21.77	60.81	-	-	A	V
		14491	43.84	-10.16	54	40.88	42	21.77	60.81	-	-	P	V
		17992	61.9	-12.1	74	44.72	49.02	24.97	56.81	-	-	A	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 6 6425~6525MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	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 HE160 Full CH 111 6505MHz		11520	48.33	-25.67	74	45.35	38.8	19.17	54.99	-	-	P	H
		11520	37.31	-16.69	54	34.33	38.8	19.17	54.99	-	-	A	H
		13008	47.26	-40.94	88.2	42	39.4	20.41	54.55	-	-	P	H
		14488	49.01	-24.99	74	41.17	40.4	21.77	54.33	-	-	P	H
		14488	38.7	-15.3	54	30.86	40.4	21.77	54.33	-	-	A	H
		17928	52.77	-21.23	74	41.95	42.42	24.95	56.55	-	-	P	H
		17928	42.27	-11.73	54	31.45	42.42	24.95	56.55	-	-	A	H
		19515	52.51	-21.49	74	73.43	37.71	-3.63	55	150	8	P	H
		19515	45.07	-8.93	54	65.99	37.71	-3.63	55	150	8	A	H
		11520	49.05	-24.95	74	46.07	38.8	19.17	54.99	-	-	P	V
		11520	37.5	-16.5	54	34.52	38.8	19.17	54.99	-	-	A	V
		13008	46.29	-41.91	88.2	41.03	39.4	20.41	54.55	-	-	P	V
		14488	49.35	-24.65	74	41.51	40.4	21.77	54.33	-	-	P	V
		14488	38.38	-15.62	54	30.54	40.4	21.77	54.33	-	-	A	V
		17936	52.33	-21.67	74	41.45	42.49	24.95	56.56	-	-	P	V
		17936	42.29	-11.71	54	31.41	42.49	24.95	56.56	-	-	A	V
		19515	47.71	-26.29	74	68.63	37.71	-3.63	55	-	-	P	H
		19515	39.83	-14.17	54	60.75	37.71	-3.63	55	-	-	A	H
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 7 6525~6875MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 143 6665MHz		10880	51.22	-22.78	74	53.73	40.34	18.72	61.57	-	-	P	H
		10880	42.73	-11.27	54	45.24	40.34	18.72	61.57	-	-	A	H
		13330	49.49	-24.51	74	50.48	39.45	20.69	61.13	-	-	P	H
		13330	41.83	-12.17	54	42.82	39.45	20.69	61.13	-	-	A	H
		14491	52.83	-21.17	74	49.87	42	21.77	60.81	-	-	P	H
		14491	43.83	-10.17	54	40.87	42	21.77	60.81	-	-	A	H
		17928	62.15	-11.85	74	46.55	47.54	24.95	56.89	-	-	P	H
		17928	47.57	-6.43	54	31.97	47.54	24.95	56.89	-	-	A	H
		19995	61.75	-12.25	74	82.48	37.7	-3.53	54.9	150	310	P	V
		19995	50.69	-3.31	54	71.42	37.7	-3.53	54.9	150	310	A	V
		10880	52.92	-21.08	74	55.43	40.34	18.72	61.57	-	-	P	V
		10880	42.38	-11.62	54	44.89	40.34	18.72	61.57	-	-	A	V
		13330	49.28	-24.72	74	50.27	39.45	20.69	61.13	-	-	P	V
		13330	41.6	-12.4	54	42.59	39.45	20.69	61.13	-	-	A	V
		14488	52.7	-21.3	74	49.74	42	21.77	60.81	-	-	P	V
		14488	44.14	-9.86	54	41.18	42	21.77	60.81	-	-	A	V
		17984	60.92	-13.08	74	43.95	48.83	24.96	56.82	-	-	P	V
		17984	47.52	-6.48	54	30.55	48.83	24.96	56.82	-	-	A	V
		19995	50.86	-23.14	74	71.59	37.7	-3.53	54.9	150	14	P	H
		19995	45.02	-8.98	54	65.75	37.7	-3.53	54.9	150	14	A	H



802.11ax HE160 Full CH 175 6825MHz		10896	52.83	-21.17	74	55.26	40.39	18.73	61.55	-	-	P	H
		10896	42.69	-11.31	54	45.12	40.39	18.73	61.55	-	-	A	H
		13650	52.59	-35.61	88.2	52.54	40.3	20.98	61.23	-	-	P	H
		14488	53.45	-20.55	74	50.49	42	21.77	60.81	-	-	P	H
		14488	44.62	-9.38	54	41.66	42	21.77	60.81	-	-	A	H
		18000	62.08	-11.92	74	44.71	49.2	24.97	56.8	-	-	P	H
		18000	46.88	-7.12	54	29.51	49.2	24.97	56.8	-	-	A	V
		20475	61.63	-12.37	74	82.16	37.87	-3.5	54.9	150	310	P	V
		20475	50.64	-3.36	54	71.17	37.87	-3.5	54.9	150	310	A	V
		10736	53.35	-20.65	74	56.56	39.91	18.65	61.77	-	-	P	V
		10736	42.41	-11.59	54	45.62	39.91	18.65	61.77	-	-	A	V
		13650	51.18	-37.02	88.2	51.13	40.3	20.98	61.23	-	-	P	V
		14491	53.54	-20.46	74	50.58	42	21.77	60.81	-	-	P	V
		14491	44.31	-9.69	54	41.35	42	21.77	60.81	-	-	A	V
		17928	61.81	-12.19	74	46.21	47.54	24.95	56.89	-	-	P	V
		17928	47.75	-6.25	54	32.15	47.54	24.95	56.89	-	-	A	V
		20475	53.09	-20.91	74	73.62	37.87	-3.5	54.9	150	48	P	H
		20475	43.21	-10.79	54	63.74	37.87	-3.5	54.9	150	48	A	H
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 8 - 6875~7125MHz

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	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 HE20 CH 229 7095MHz		5092	53.85	-20.15	74	39.7	31.87	11.94	29.66	-	-	P	H
		5092	44.37	-9.63	54	30.22	31.87	11.94	29.66	-	-	A	H
		5408.2	53.76	-20.24	74	39.16	31.53	12.79	29.72	-	-	P	H
		5408.2	45.02	-8.98	54	30.42	31.53	12.79	29.72	-	-	A	H
	*	7095	98.87	-	-	78.78	35.78	14.93	30.62	100	63	P	H
	*	7095	89.63	-	-	69.54	35.78	14.93	30.62	100	63	A	H
		7127.4	61.02	-27.18	88.2	40.37	35.85	15.43	30.63	237	299	P	H
		7130.6	49.77	-18.43	68.2	29.11	35.86	15.43	30.63	237	299	A	H
		5042.4	54.23	-19.77	74	40.34	31.68	11.87	29.66	-	-	P	V
		5042.4	44.05	-9.95	54	30.16	31.68	11.87	29.66	-	-	A	V
		5433	53.74	-20.26	74	39.03	31.63	12.8	29.72	-	-	P	V
		5433	45.24	-8.76	54	30.53	31.63	12.8	29.72	-	-	A	V
	*	7095	95.08	-	-	74.99	35.78	14.93	30.62	400	4	P	V
	*	7095	85.16	-	-	65.07	35.78	14.93	30.62	400	4	A	V
		7165.16	60.01	-28.19	88.2	39.75	36.1	14.81	30.65	400	4	P	V
		7216.36	48.99	-19.21	68.2	28.64	36.2	14.82	30.67	400	4	A	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 8 - 6875~7125MHz

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

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 227 7085MHz		5067.2	53.73	-20.27	74	39.72	31.77	11.9	29.66	-	-	P	H
		5067.2	44.45	-9.55	54	30.44	31.77	11.9	29.66	-	-	A	H
		5402	53.85	-20.15	74	39.26	31.51	12.79	29.71	-	-	P	H
		5402	44.95	-9.05	54	30.36	31.51	12.79	29.71	-	-	A	H
	*	7085	102.91	-	-	82.83	35.74	14.95	30.61	173	59	P	H
	*	7085	92.59	-	-	72.51	35.74	14.95	30.61	173	59	A	H
		7219.24	60.09	-28.11	88.2	39.71	36.22	14.84	30.68	173	59	P	H
		7138.6	49.29	-18.91	68.2	29.04	36.03	14.86	30.64	173	59	A	H
		5110.6	53.97	-20.03	74	39.79	31.88	11.97	29.67	-	-	P	V
		5110.6	44.74	-9.26	54	30.56	31.88	11.97	29.67	-	-	A	V
		5414.4	53.39	-20.61	74	38.75	31.56	12.8	29.72	-	-	P	V
		5414.4	44.79	-9.21	54	30.15	31.56	12.8	29.72	-	-	A	V
	*	7085	94.67	-	-	74.59	35.74	14.95	30.61	335	4	P	V
	*	7085	84.97	-	-	64.89	35.74	14.95	30.61	335	4	A	V
		7141.48	59.05	-29.15	88.2	38.79	36.05	14.85	30.64	335	4	P	V
		7141.48	49.68	-18.52	68.2	29.01	35.88	15.43	30.64	100	149	A	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 8 - 6875~7125MHz

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

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 215 7025MHz		5451.6	53.12	-20.88	74	38.33	31.7	12.81	29.72	-	-	P	H
		5451.6	43.68	-10.32	54	28.89	31.7	12.81	29.72	-	-	A	H
	*	7025	95.18	-	-	75.3	35.4	15.06	30.58	178	53	P	H
	*	7025	84.87	-	-	64.99	35.4	15.06	30.58	178	53	A	H
		7164.84	54.28	-33.92	88.2	34.02	36.1	14.81	30.65	178	53	P	H
		7129.64	45.07	-23.13	68.2	24.85	35.98	14.87	30.63	178	53	A	H
		5451.6	52.07	-21.93	74	37.28	31.7	12.81	29.72	-	-	P	V
		5451.6	43.35	-10.65	54	28.56	31.7	12.81	29.72	-	-	A	V
	*	7025	85.6	-	-	65.72	35.4	15.06	30.58	354	360	P	V
	*	7025	75.68	-	-	55.8	35.4	15.06	30.58	354	360	A	V
		7150.76	54.01	-34.19	88.2	33.71	36.1	14.84	30.64	354	360	P	V
		7158.76	43.03	-25.17	68.2	22.76	36.1	14.82	30.65	354	360	A	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 8 - 6875~7125MHz

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

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 207 6985MHz		5445.4	51.21	-22.79	74	36.44	31.68	12.81	29.72	-	-	P	H
		5445.4	43.54	-10.46	54	28.77	31.68	12.81	29.72	-	-	A	H
	*	6985	95.32	-	-	75.7	35.14	15.04	30.56	217	60	P	H
	*	6985	82.19	-	-	62.57	35.14	15.04	30.56	217	60	A	H
		7137	55.49	-32.71	88.2	35.25	36.02	14.86	30.64	217	60	P	H
		7128.68	56.3	-11.9	68.2	36.09	35.97	14.87	30.63	217	60	A	H
		5457.8	51.04	-22.96	74	36.24	31.7	12.82	29.72	-	-	P	V
		5457.8	43.43	-10.57	54	28.63	31.7	12.82	29.72	-	-	A	V
	*	6985	84.21	-	-	64.59	35.14	15.04	30.56	351	360	P	V
	*	6985	73.99	-	-	54.37	35.14	15.04	30.56	351	360	A	V
		7223.08	53.37	-34.83	88.2	32.96	36.24	14.85	30.68	351	360	P	V
		7128.04	45.68	-22.52	68.2	25.46	35.97	14.88	30.63	351	360	A	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 8 - 6875~7125MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preampl Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 207 6985MHz		10880	52.29	-21.71	74	54.8	40.34	18.72	61.57	-	-	P	H
		10880	41.6	-12.4	54	44.11	40.34	18.72	61.57	-	-	A	H
		13970	51.66	-36.54	88.2	50.6	41.08	21.27	61.29	-	-	P	H
		14491	53.85	-20.15	74	50.89	42	21.77	60.81	-	-	P	H
		14491	42.92	-11.08	54	39.96	42	21.77	60.81	-	-	A	H
		17960	61.99	-12.01	74	45.6	48.28	24.96	56.85	-	-	P	H
		17960	47.73	-6.27	54	31.34	48.28	24.96	56.85	-	-	A	H
		20955	56.64	-17.36	74	76.64	38.08	-3.36	54.72	150	317	P	H
		20955	46.24	-7.76	54	66.24	38.08	-3.36	54.72	150	317	A	H
		10880	51.49	-22.51	74	54	40.34	18.72	61.57	-	-	P	V
		10880	41.72	-12.28	54	44.23	40.34	18.72	61.57	-	-	A	V
		13970	51.06	-37.14	88.2	50	41.08	21.27	61.29	-	-	P	V
		14491	53.55	-20.45	74	50.59	42	21.77	60.81	-	-	P	V
		14491	43.05	-10.95	54	40.09	42	21.77	60.81	-	-	A	V
		17992	61.85	-12.15	74	44.67	49.02	24.97	56.81	-	-	P	V
		17992	47.68	-6.32	54	30.5	49.02	24.97	56.81	-	-	A	V
		20955	55.85	-18.15	74	75.85	38.08	-3.36	54.72	150	6	P	V
		20955	46.02	-7.98	54	66.02	38.08	-3.36	54.72	150	6	A	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.												

Emission below 1GHz

WIFI 802.11ax HE160 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	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 HE160 Full LF		30.97	22.38	-17.62	40	29.82	24.05	0.83	32.32	-	-	P	H
		97.9	31.71	-11.79	43.5	46.66	15.56	1.79	32.3	-	-	P	H
		158.04	26.26	-17.24	43.5	39.45	16.76	2.3	32.25	-	-	P	H
		428.67	24.84	-21.16	46	30.62	22.99	3.64	32.41	-	-	P	H
		768.17	30.72	-15.28	46	30.11	28.09	4.83	32.31	-	-	P	H
		956.35	34.11	-11.89	46	29.04	30.74	5.47	31.14	-	-	P	H
													H
													H
													H
													H
													H
													H
		34.85	29.74	-10.26	40	38.86	22.27	0.92	32.31	-	-	P	V
		94.02	27.84	-15.66	43.5	43.37	15.03	1.75	32.31	-	-	P	V
		575.14	27.82	-18.18	46	30.27	25.82	4.23	32.5	-	-	P	V
		837.04	32.24	-13.76	46	30.32	28.87	5.08	32.03	-	-	P	V
		900.09	33.04	-12.96	46	30.3	29	5.28	31.54	-	-	P	V
		951.5	34.24	-11.76	46	29.37	30.6	5.46	31.19	-	-	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	Peak or Average
H/V	Horizontal or Vertical



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	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)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	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. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

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. Over Limit(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 74(dBμV/m)
 = -18.55(dB)

For Average Limit @ 2390MHz:

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. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -10.46(dB)

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



Appendix D. Radiated Spurious Emission Plots

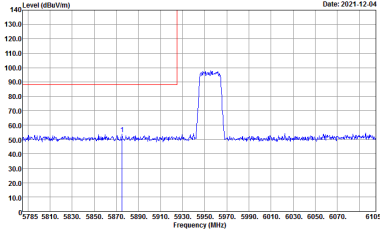
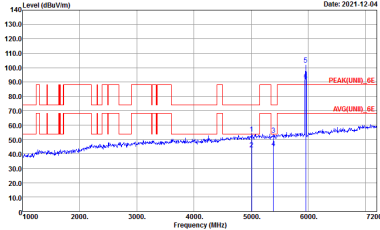
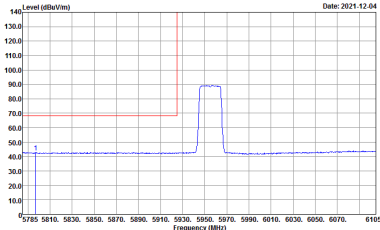
Test Engineer :	Karl Hou and Andy Yang	Temperature :	20~25°C
		Relative Humidity :	50~60%

Note symbol

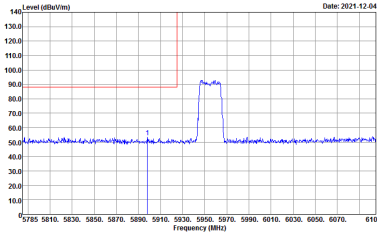
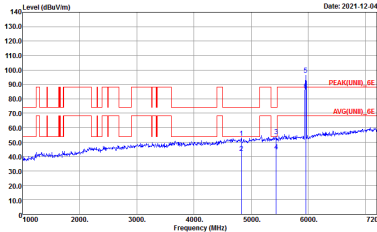
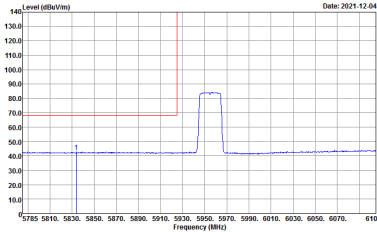
-L	Low channel location
-R	High channel location



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

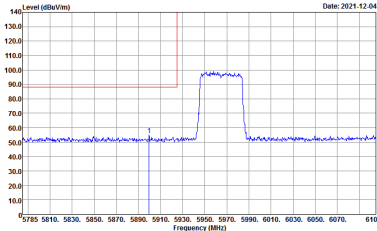
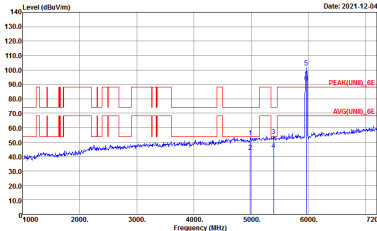
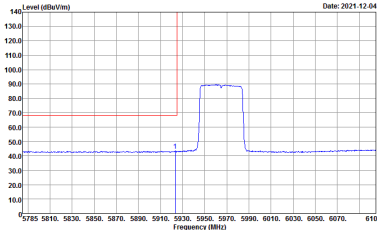
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank



WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEARL_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEARL(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank



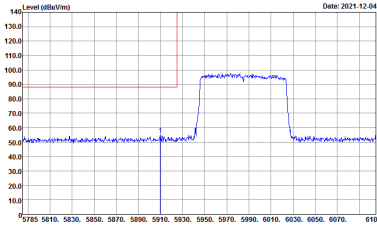
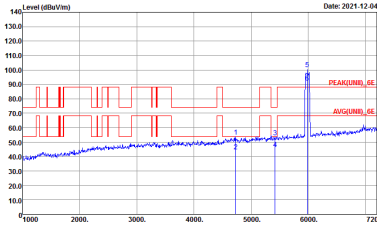
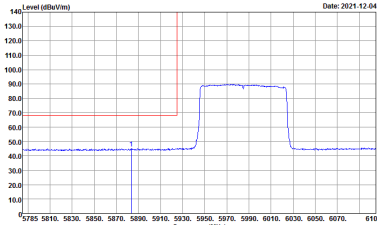
Band 5 5925~6425MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

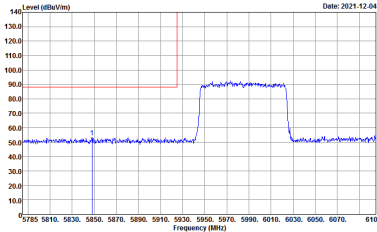
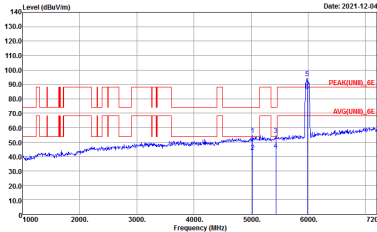
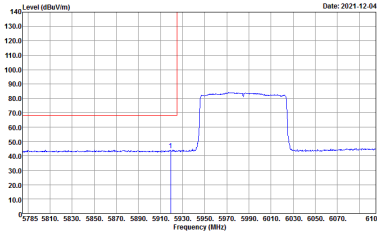


WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
4+3	Vertical	Fundamental
Peak	Site : 03CH16-HY Condition : PEARL_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : PEARL(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH16-HY Condition : AVG_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

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	 Site : 03CH16-HY Condition : PEAK_BE(UNIT1)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNIT1)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNIT1)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

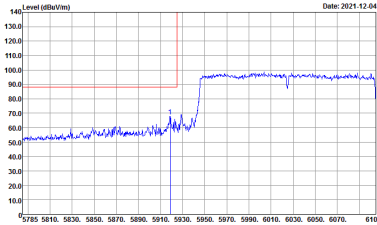
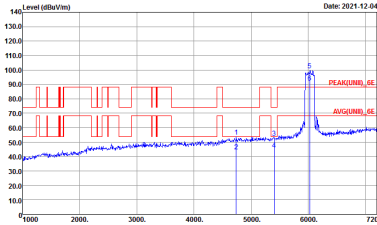
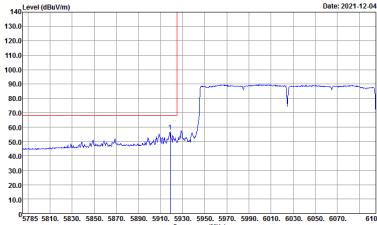


WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH07 5985MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNIT)_6E 3m 91200_1522_211012 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

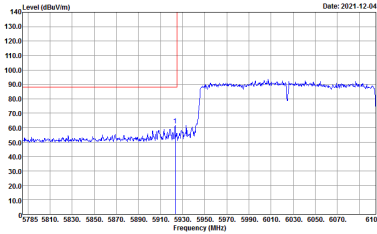
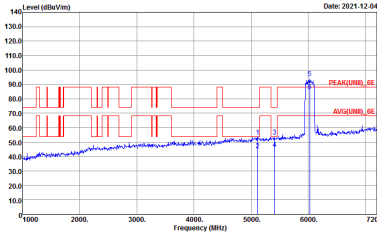
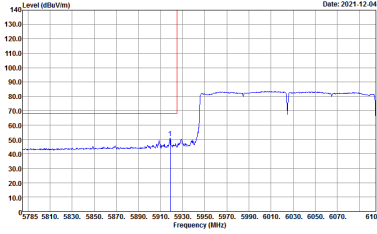


Band 5 5925~6425MHz

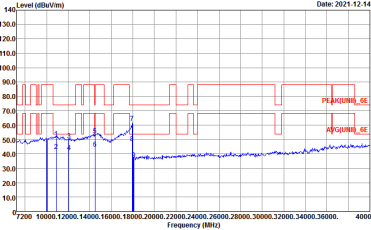
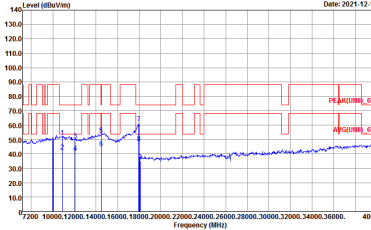
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEARL_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEARL(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

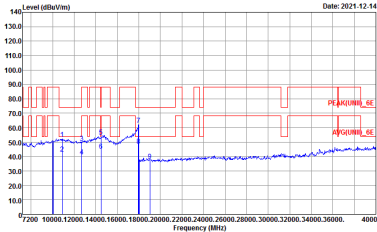
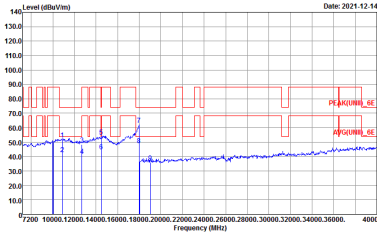
Band 5 - 5925~6425MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAR(UNIT)_6E 1m SHF ANT_9170_00991 HORIZONTAL Detector : Peak	 Site : 03CH16-HY Condition : PEAR(UNIT)_6E 1m SHF ANT_9170_00991 VERTICAL Detector : Peak



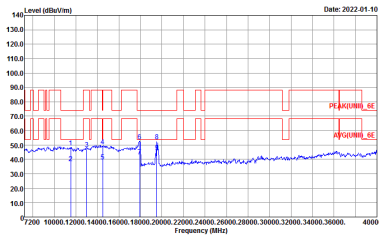
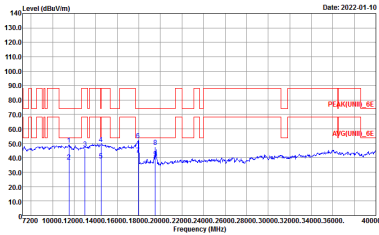
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH47 6185MHz	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-12-14 Frequency (MHz) Site : 03CH16-HV Condition : PEAK(UNIT)_6E 1m SHF ANT_9170_00991 HORIZONTAL Detector : Peak	Level (dBuV/m) Date: 2021-12-14 Frequency (MHz) Site : 03CH16-HV Condition : PEAK(UNIT)_6E 1m SHF ANT_9170_00991 VERTICAL Detector : Peak



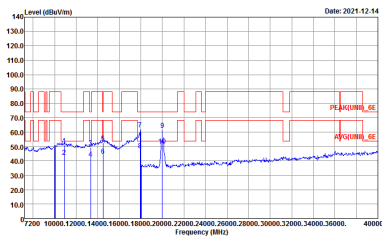
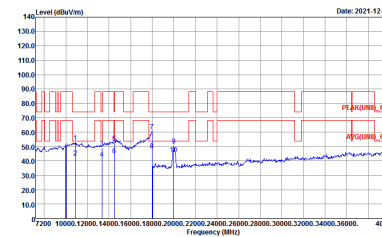
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH79 6345MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HV Condition : PEAK(UNIT)_6E 1m SHF ANT_9170_00991 HORIZONTAL Detector : Peak	 Site : 03CH16-HV Condition : PEAK(UNIT)_6E 1m SHF ANT_9170_00991 VERTICAL Detector : Peak



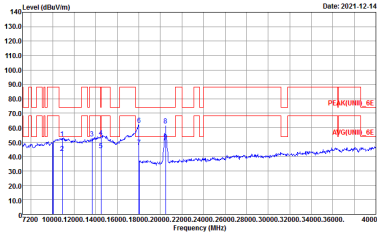
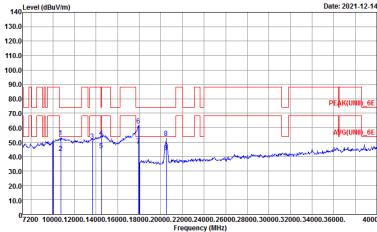
Band 6 - 6425~6525MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	Band 6 6425~6525MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH111 6505MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT)_SE 3m 91200_02114_210804 HORIZONTAL Detector : Peak Project : 161608-03	 Site : 03CH16-HY Condition : PEAK(UNIT)_SE 3m 91200_02114_210804 VERTICAL Detector : Peak Project : 161608-03

Band 7 - 6525~6875MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

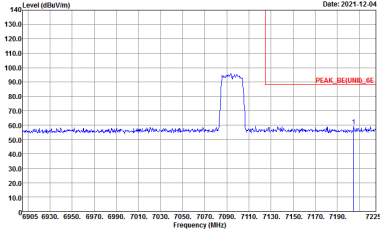
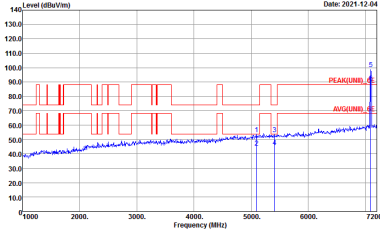
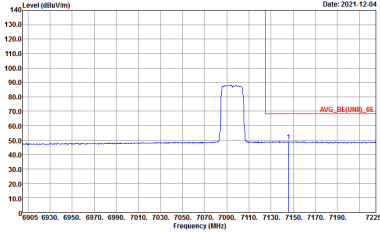
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH143 6665MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAR(UNIT)_6E 1m SHF ANT_9170_00991 HORIZONTAL Detector : Peak	 Site : 03CH16-HY Condition : PEAR(UNIT)_6E 1m SHF ANT_9170_00991 VERTICAL Detector : Peak



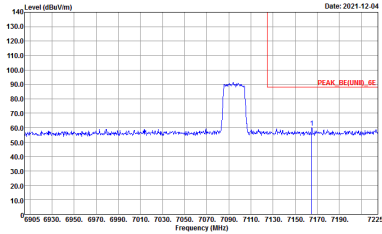
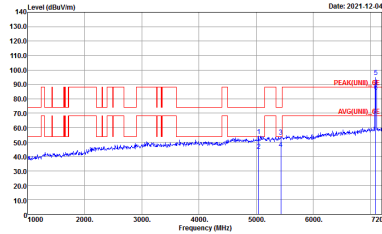
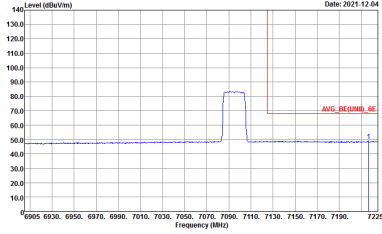
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH175 6825MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HV Condition : PEAK(UNIT)_6E 1m SHF ANT_9170_00991 HORIZONTAL Detector : Peak	 Site : 03CH16-HV Condition : PEAK(UNIT)_6E 1m SHF ANT_9170_00991 VERTICAL Detector : Peak



Band 8 - 6875~7125MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

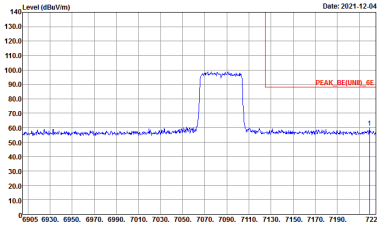
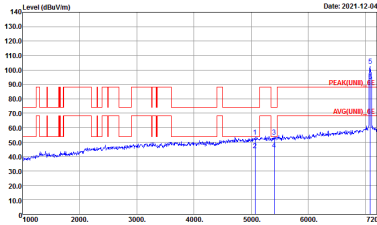
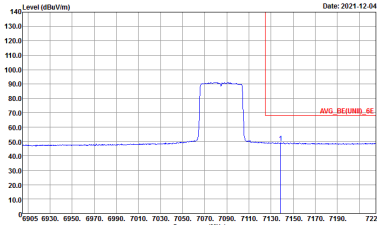
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH229 7095MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank



WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH229 7095MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : : PEAK(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH16-HY Condition : : AVG_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank



Band 8 - 6875~7125MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH227 7085MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank



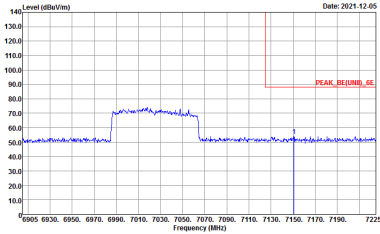
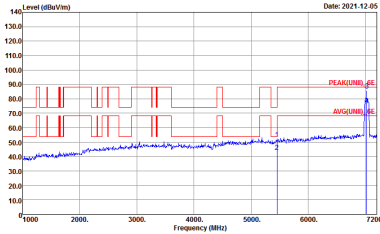
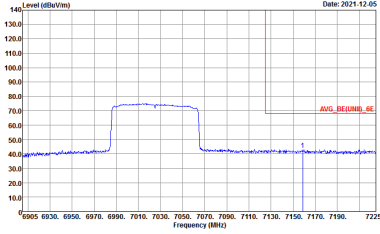
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH227 7085MHz	
4+3	Vertical	Fundamental
Peak	Site : 03CH16-HY Condition : : PEAK_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : : PEAK(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH16-HY Condition : : AVG_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank



Band 8 - 6875~7125MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

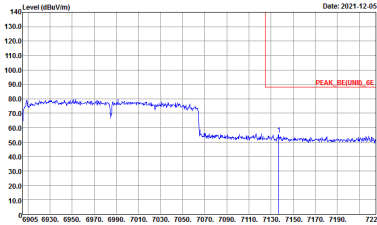
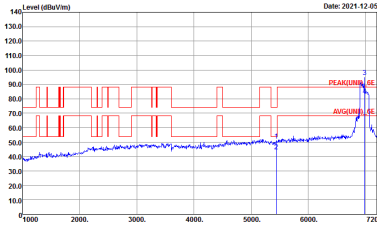
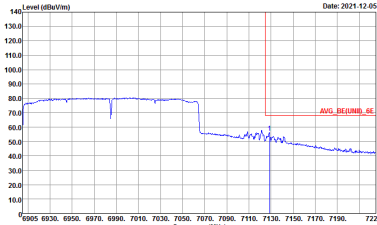
WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH215 7025MHz	
4+3	Horizontal	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : PEAK(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH16-HY Condition : AVG_BE(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank



WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH215 7025MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : : PEAK_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : : PEAK(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : : AVG_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank



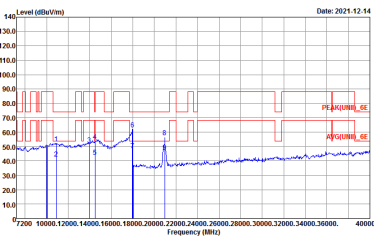
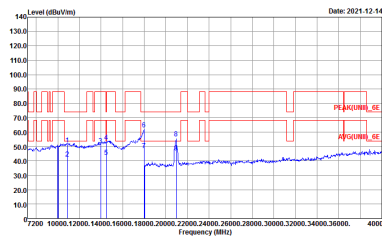
Band 8 - 6875~7125MHz
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH207 6985MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNIT)_6E 3m 91200_1522_211012 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

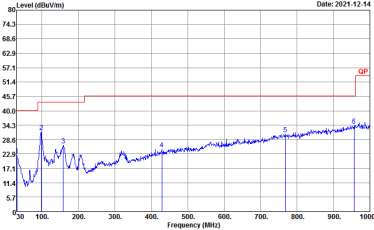
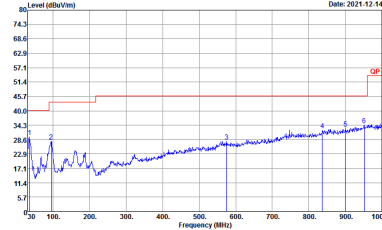


WIFI	Band 8 6875~7125MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH207 6985MHz	
4+3	Vertical	Fundamental
Peak	Site : 03CH16-HY Condition : : PEAK_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH16-HY Condition : : PEAK(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH16-HY Condition : : AVG_BE(UNIT)_6E 3m 91200_1522_211012 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

Band 8 - 6875~7125MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	Band 8 6875~7125MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH207 6985MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT)_6E 1m SHF ANT_9170_00991 HORIZONTAL Detector : Peak	 Site : 03CH16-HY Condition : PEAK(UNIT)_6E 1m SHF ANT_9170_00991 VERTICAL Detector : Peak

Emission below 1GHz
5GHz WIFI 802.11ax HE160 Full (LF)

WIFI	5GHz WIFI	
ANT	802.11ax HE160 Full LF	
4+3	Horizontal	Vertical
QP / Peak	 Site : 03CH16-HY Condition : QP 3m 81LO6_47020_211009 HORIZONTAL Detector : Peak	 Site : 03CH16-HY Condition : QP 3m 81LO6_47020_211009 VERTICAL Detector : Peak



Appendix E. Duty Cycle Plots

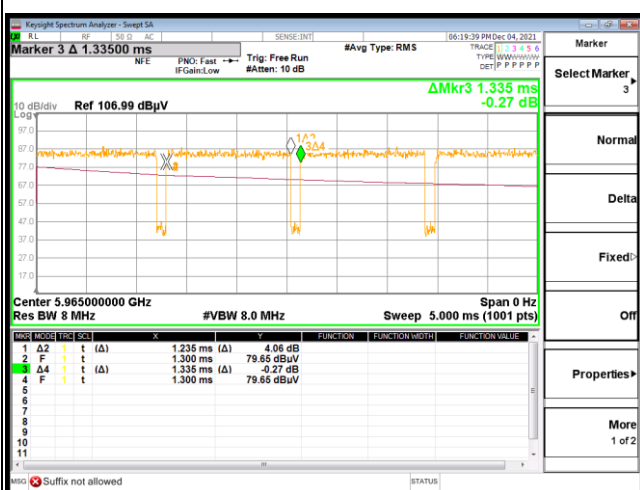
Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
4+3	6GHz 802.11ax HE20 Full RU	96.02	2410	0.41	1kHz
4+3	6GHz 802.11ax HE40 Full RU	92.51	1235	0.81	1kHz
4+3	6GHz 802.11ax HE80 Full RU	86.19	624	1.60	3kHz
4+3	6GHz 802.11ax HE160 Full RU	85.95	624	1.60	3kHz

MIMO <Ant. 4+3>

6GHz 802.11ax HE20 Full RU



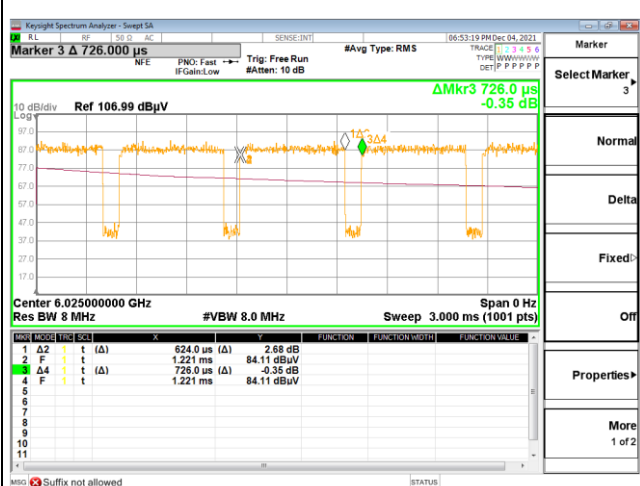
6GHz 802.11ax HE40 Full RU



6GHz 802.11ax HE80 Full RU



6GHz 802.11ax HE160 Full RU



—THE END—