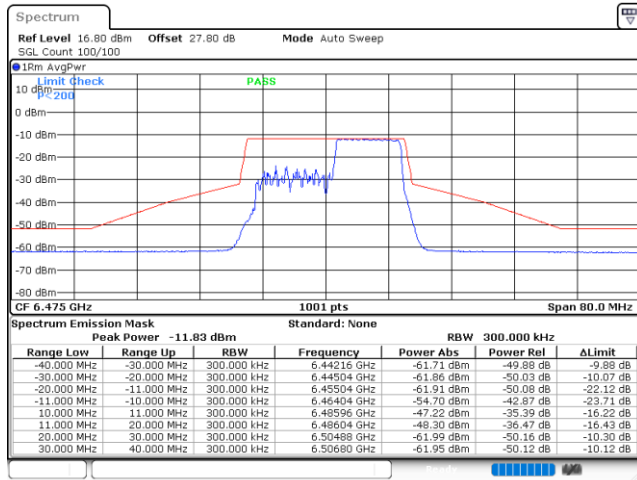


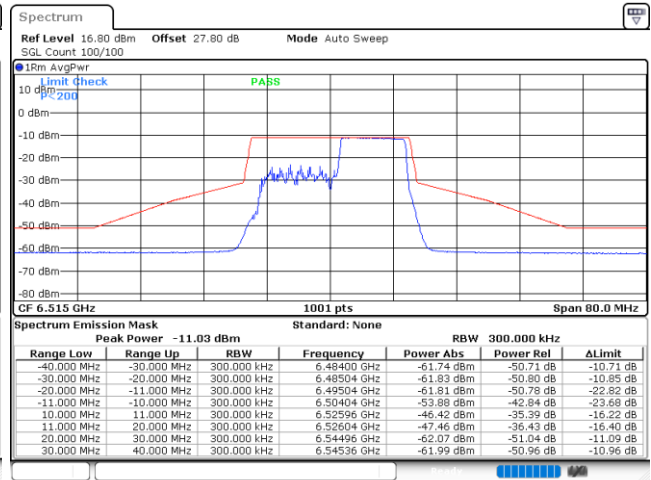


Plot on Channel 6475MHz



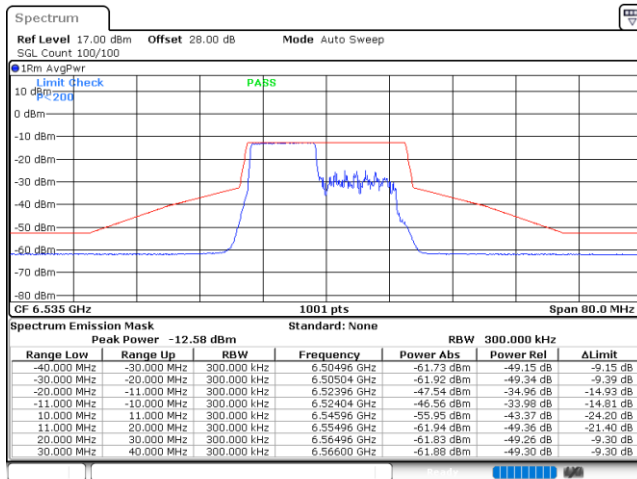
Date: 22.MAY.2022 10:44:45

Plot on Channel 6515MHz



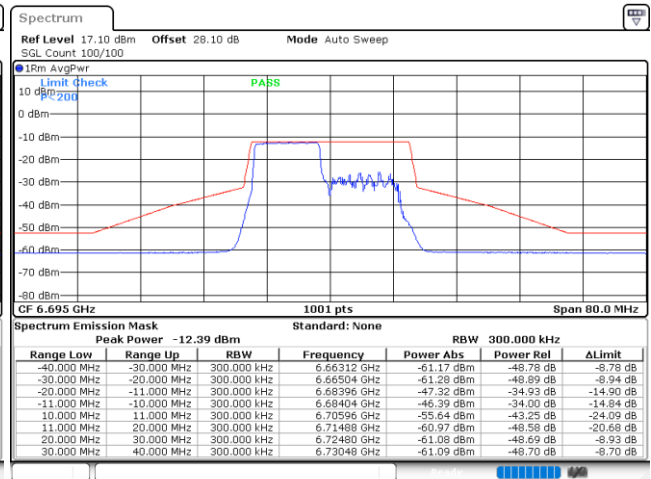
Date: 22.MAY.2022 10:55:51

Plot on Channel 6535MHz



Date: 22.MAY.2022 11:10:29

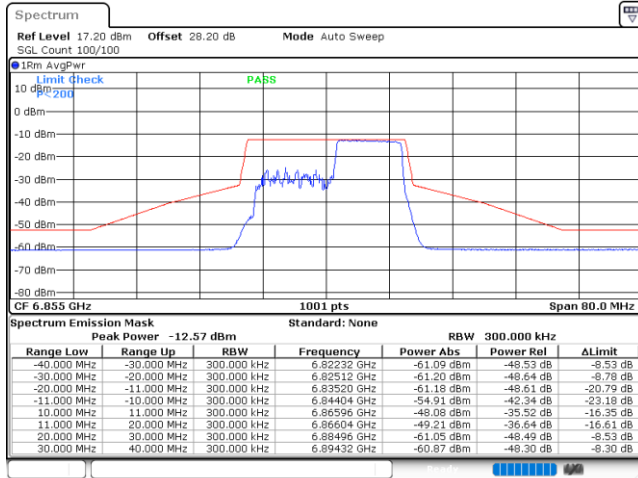
Plot on Channel 6695MHz



Date: 22.MAY.2022 11:26:56

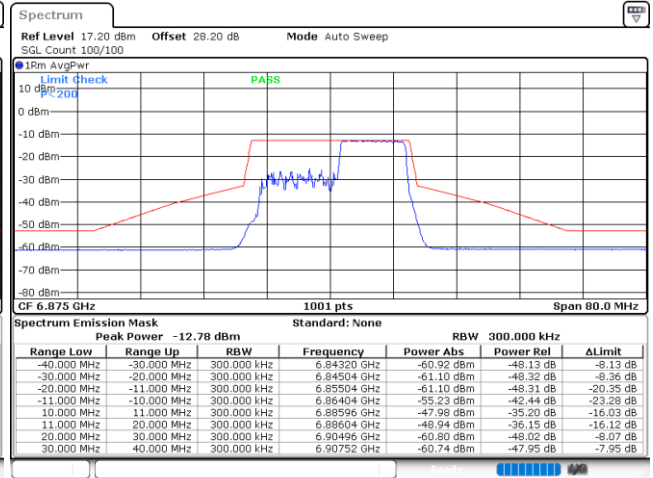


Plot on Channel 6855MHz



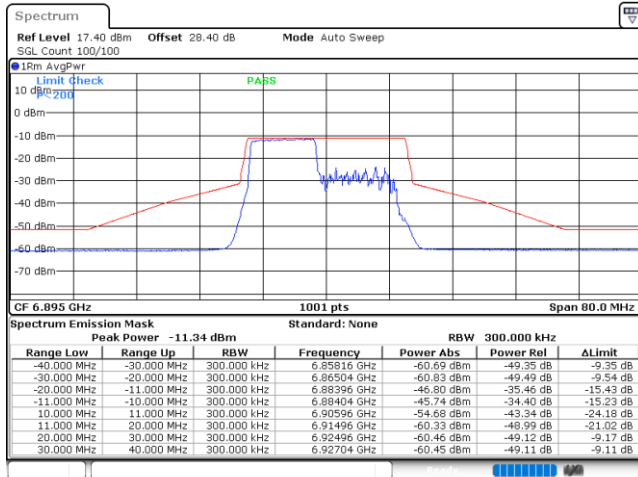
Date: 22.MAY.2022 11:39:11

Plot on Channel 6875MHz



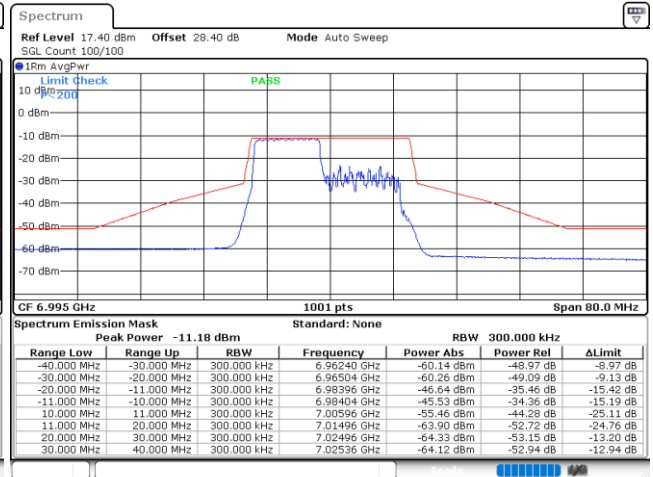
Date: 22.MAY.2022 11:52:43

Plot on Channel 6895MHz



Date: 22.MAY.2022 12:04:00

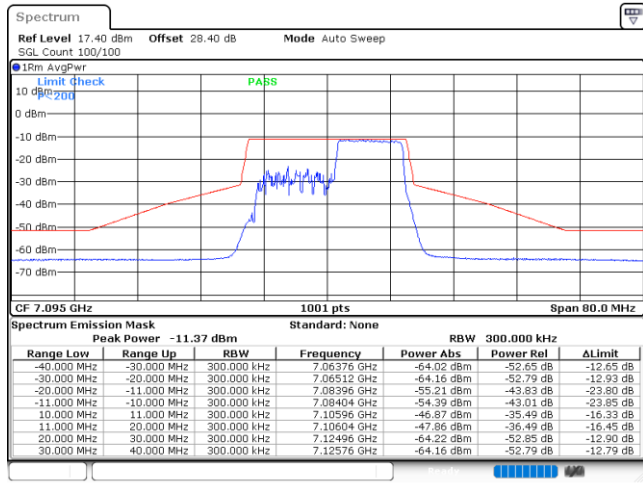
Plot on Channel 6995MHz



Date: 22.MAY.2022 12:17:14



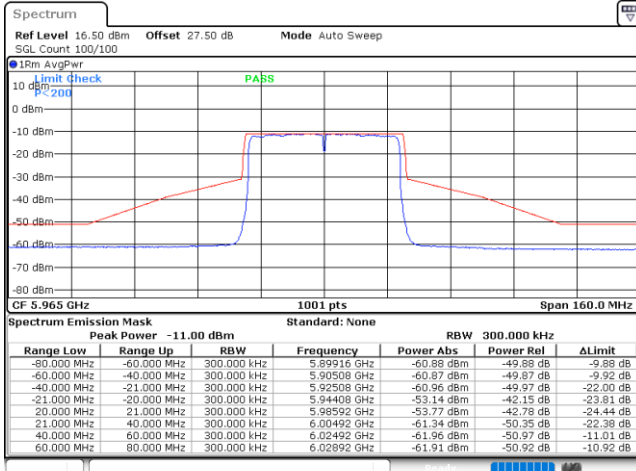
Plot on Channel 7095MHz





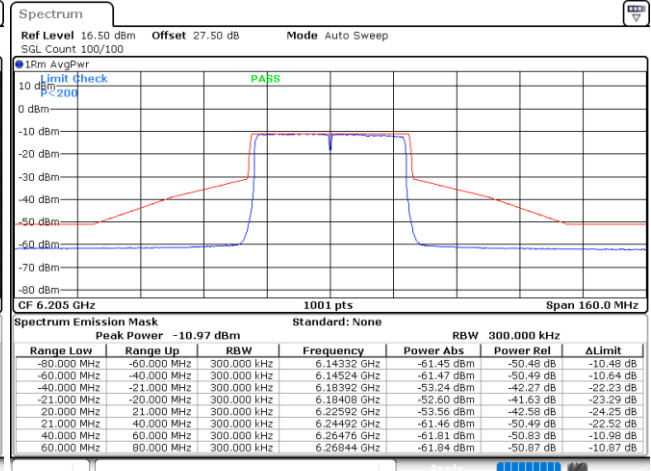
EUT Mode : 802.11ax HE40

Plot on Channel 5965MHz



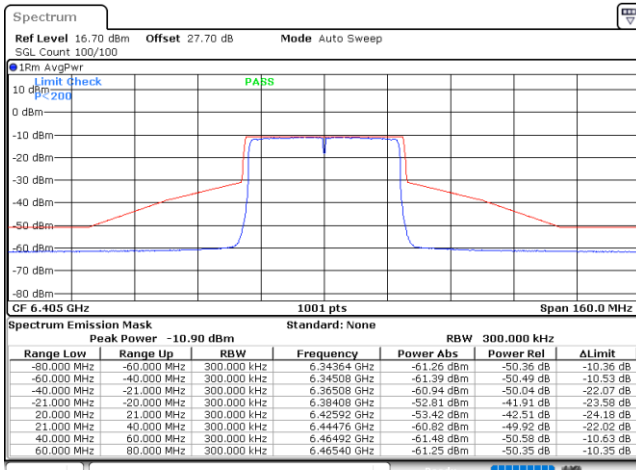
Date: 22.MAY.2022 05:32:43

Plot on Channel 6205MHz



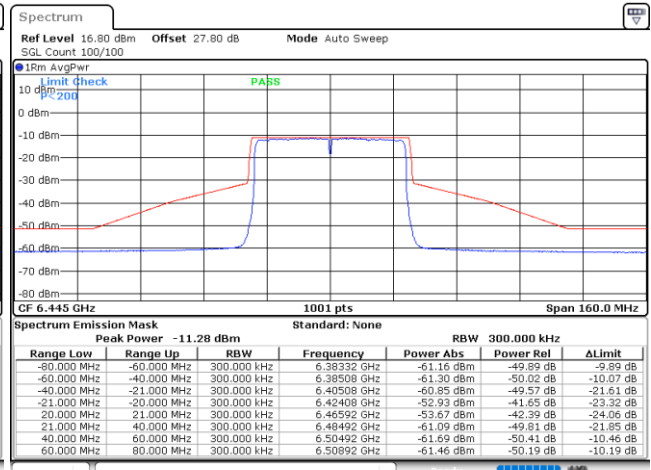
Date: 22.MAY.2022 06:22:22

Plot on Channel 6405MHz



Date: 22.MAY.2022 06:26:15

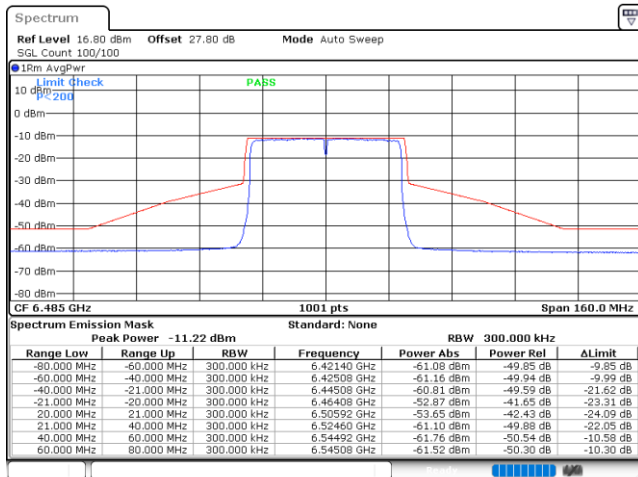
Plot on Channel 6445MHz



Date: 22.MAY.2022 06:32:56

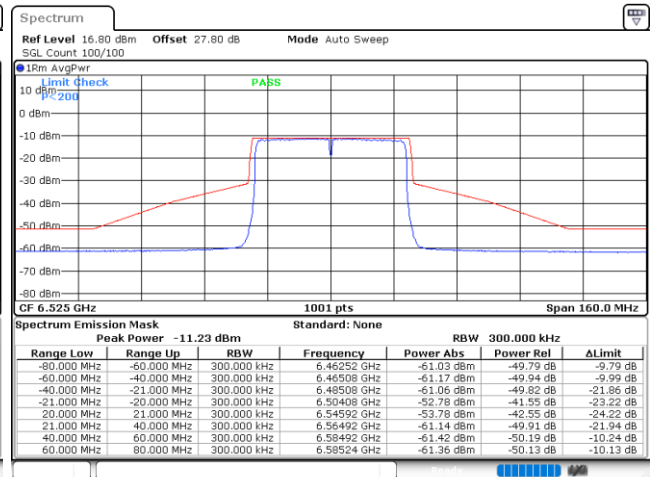


Plot on Channel 6485MHz



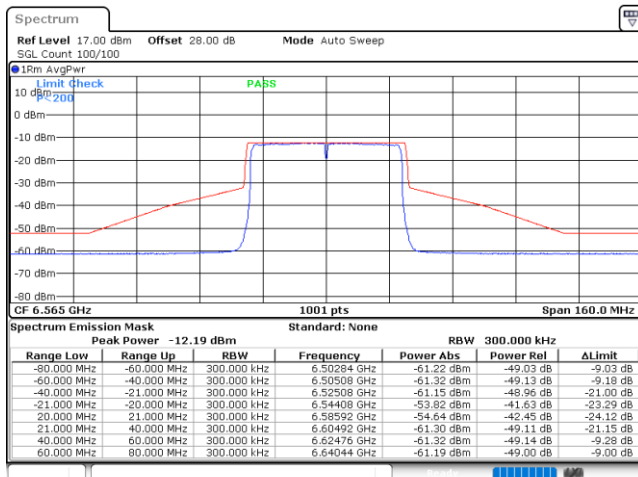
Date: 22.MAY.2022 06:37:15

Plot on Channel 6525MHz



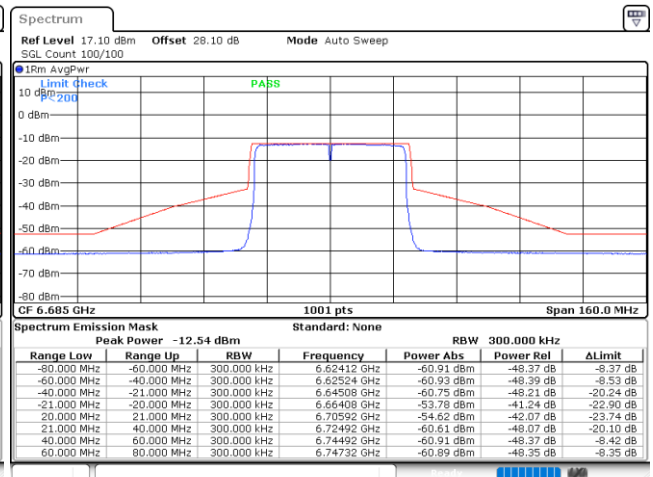
Date: 22.MAY.2022 06:42:49

Plot on Channel 6565MHz



Date: 22.MAY.2022 06:49:21

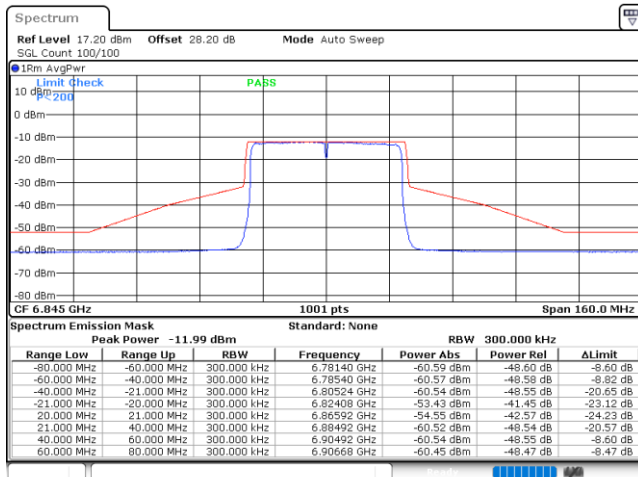
Plot on Channel 6685MHz



Date: 22.MAY.2022 06:53:56

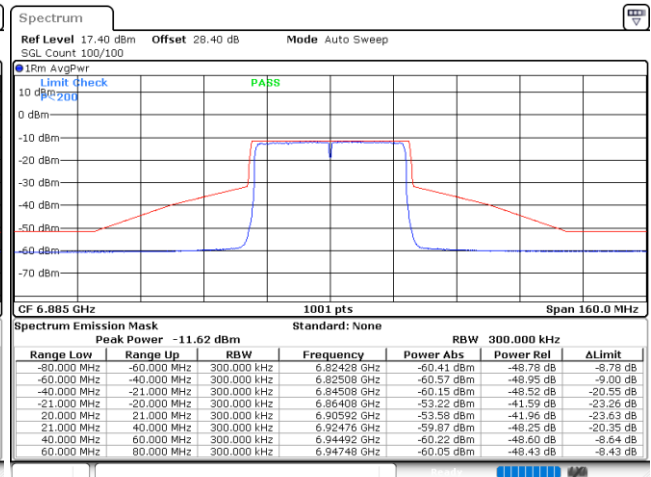


Plot on Channel 6845MHz



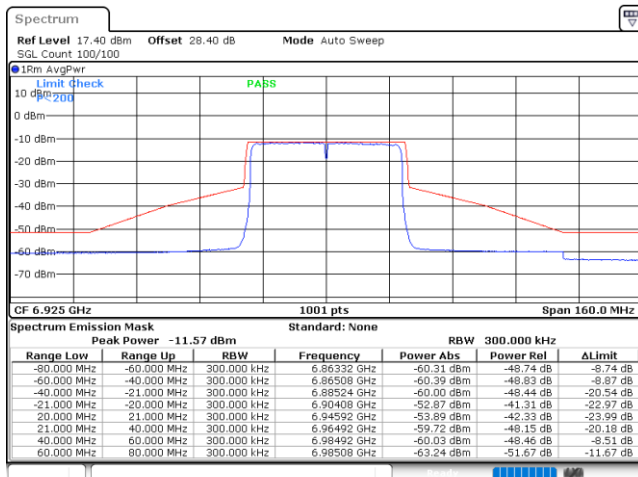
Date: 22.MAY.2022 06:58:39

Plot on Channel 6885MHz



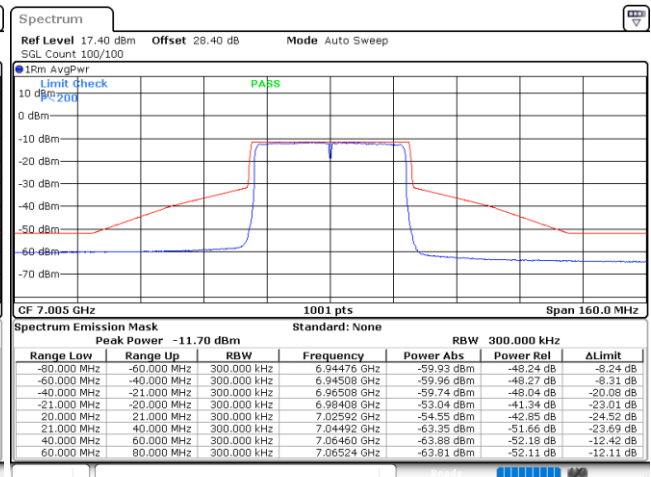
Date: 22.MAY.2022 07:02:37

Plot on Channel 6925MHz



Date: 22.MAY.2022 07:07:39

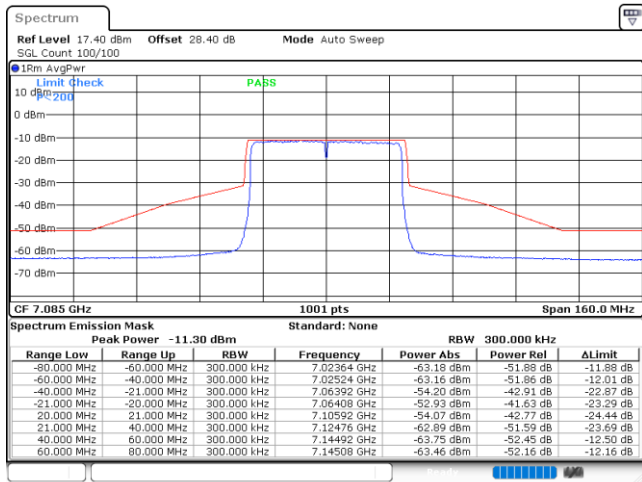
Plot on Channel 7005MHz



Date: 22.MAY.2022 07:12:54



Plot on Channel 7085MHz

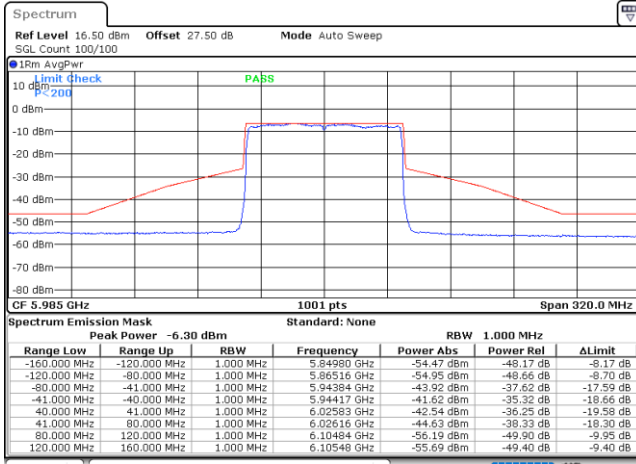


Date: 22.MAY.2022 07:16:29



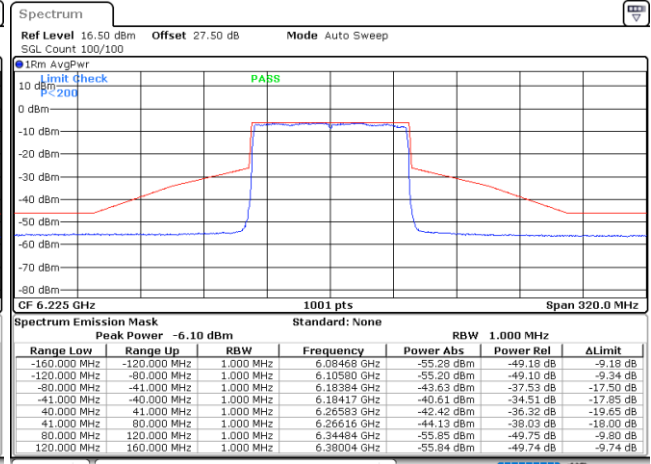
EUT Mode : 802.11ax HE80

Plot on Channel 5985MHz



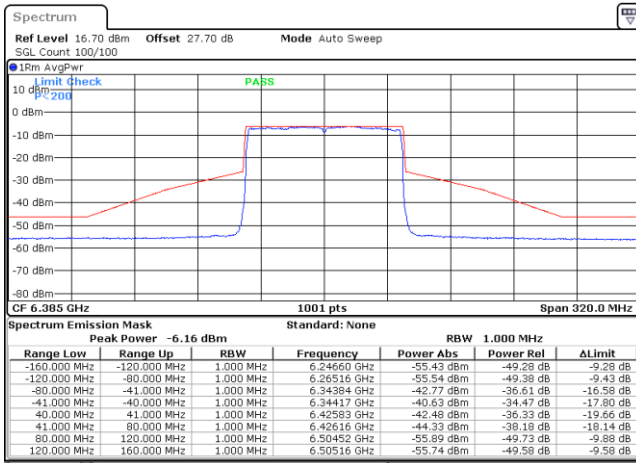
Date: 22.MAY.2022 07:27:02

Plot on Channel 6225MHz



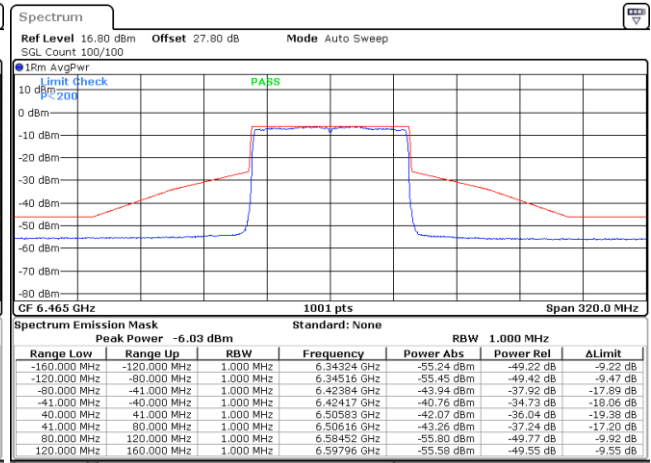
Date: 22.MAY.2022 07:31:45

Plot on Channel 6385MHz



Date: 22.MAY.2022 07:36:22

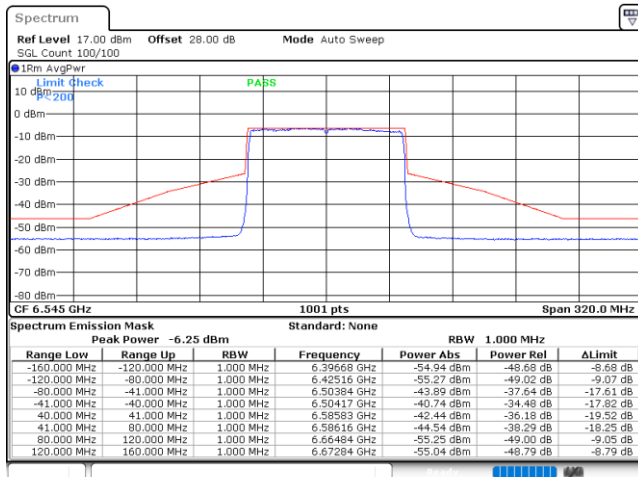
Plot on Channel 6465MHz



Date: 22.MAY.2022 07:41:17

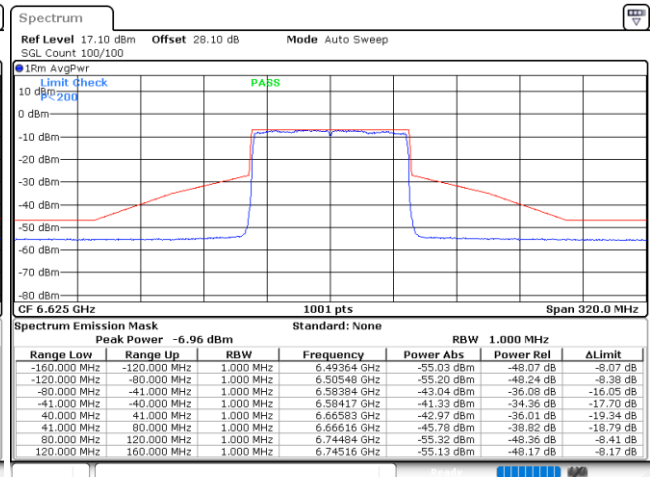


Plot on Channel 6545MHz



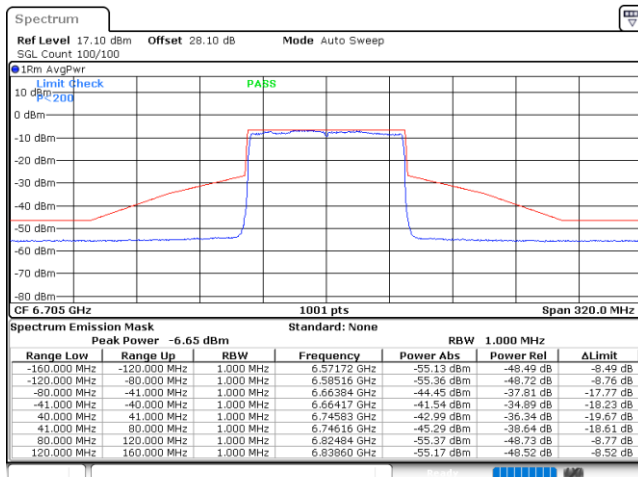
Date: 22.MAY.2022 07:47:10

Plot on Channel 6625MHz



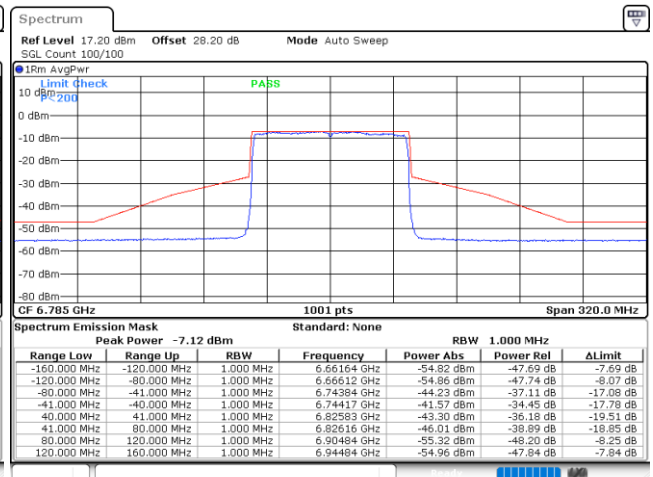
Date: 22.MAY.2022 07:53:55

Plot on Channel 6705MHz



Date: 22.MAY.2022 07:57:35

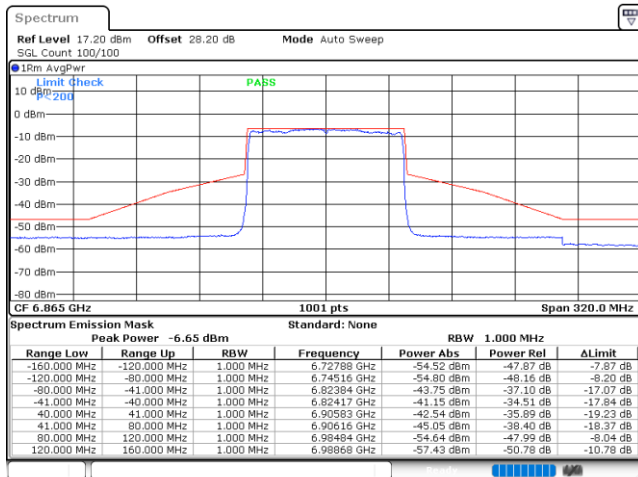
Plot on Channel 6785MHz



Date: 22.MAY.2022 08:01:21

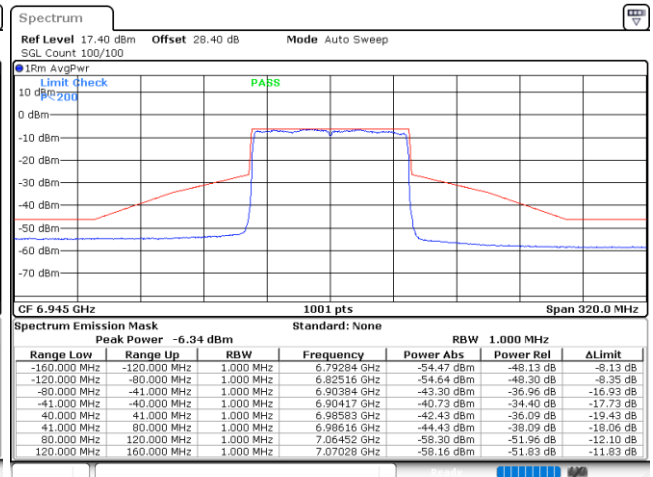


Plot on Channel 6865MHz



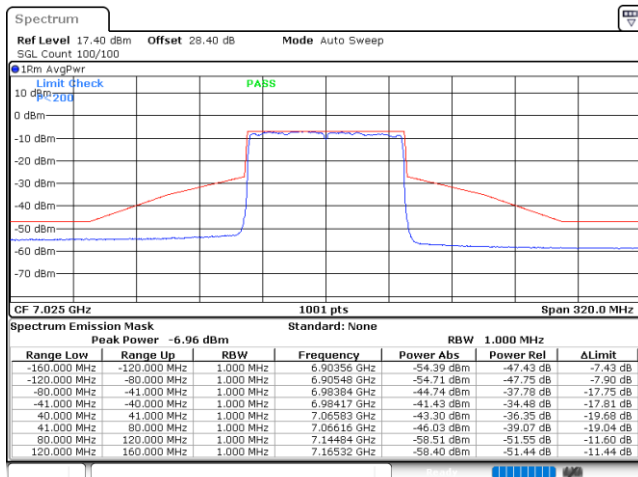
Date: 22.MAY.2022 08:04:38

Plot on Channel 6945MHz



Date: 22.MAY.2022 08:09:10

Plot on Channel 7025MHz

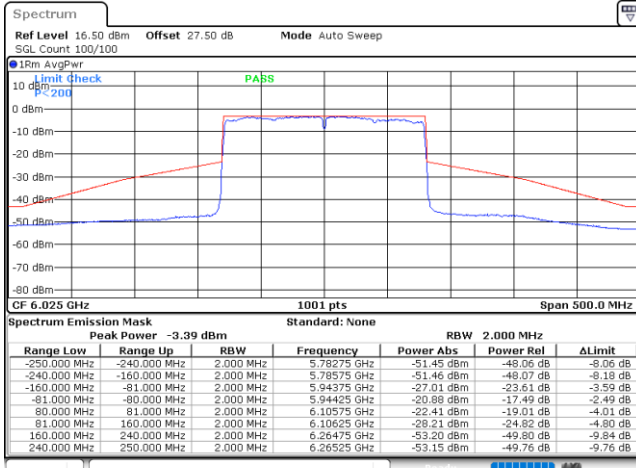


Date: 22.MAY.2022 08:13:53



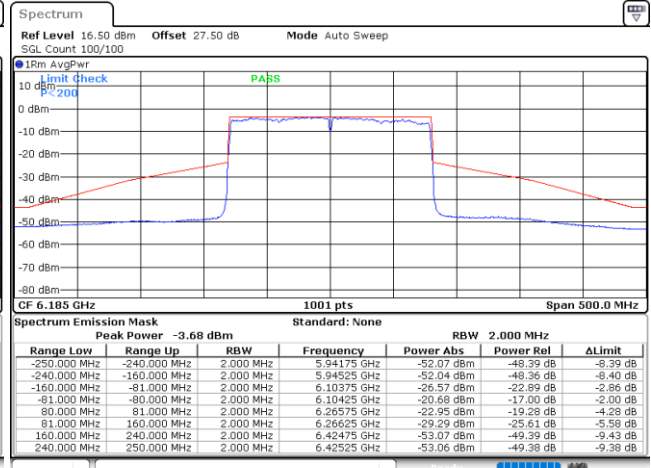
EUT Mode : 802.11ax HE160

Plot on Channel 6025MHz



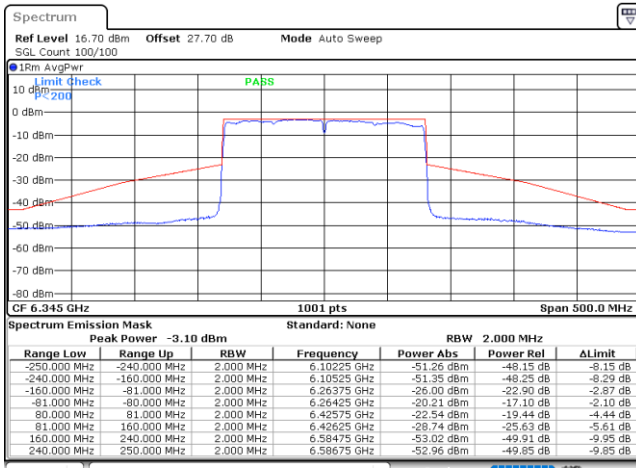
Date: 22.MAY.2022 08:27:18

Plot on Channel 6185MHz



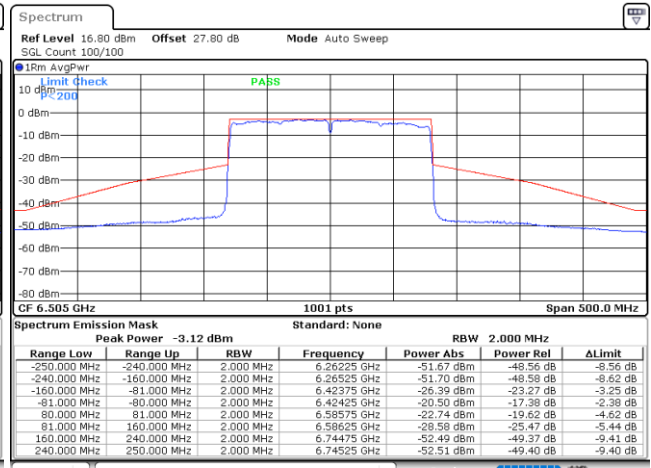
Date: 22.MAY.2022 08:32:43

Plot on Channel 6345MHz



Date: 22.MAY.2022 08:38:19

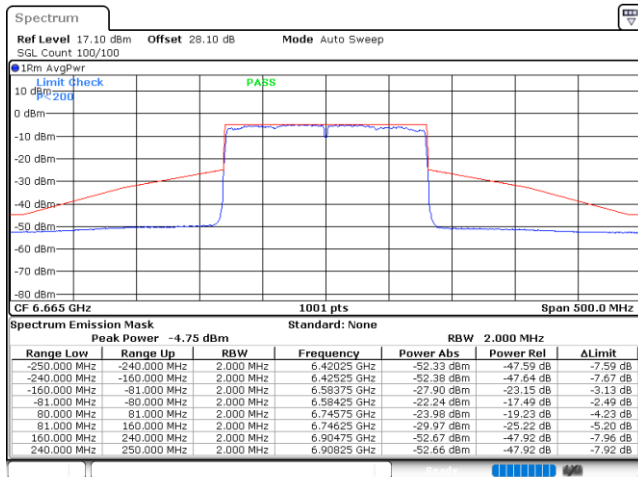
Plot on Channel 6505MHz



Date: 22.MAY.2022 08:42:07

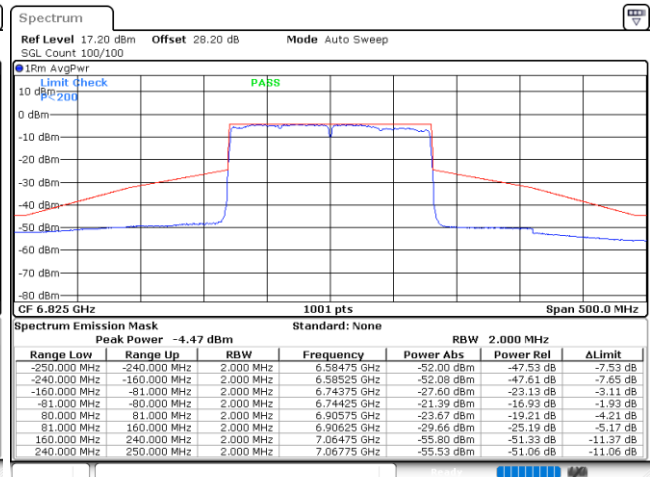


Plot on Channel 6665MHz



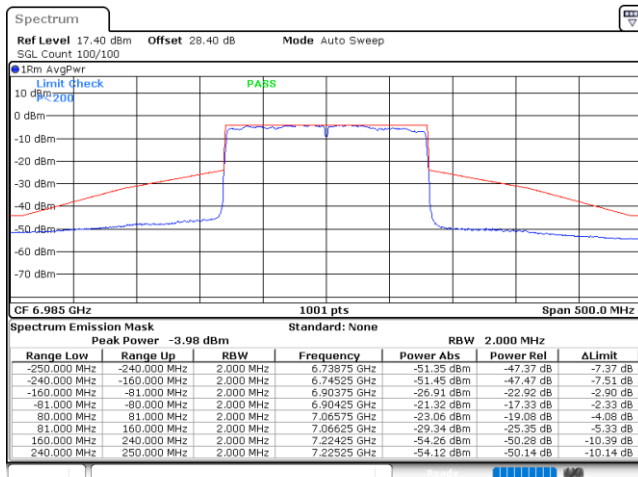
Date: 22.MAY.2022 08:54:00

Plot on Channel 6825MHz



Date: 22.MAY.2022 09:01:24

Plot on Channel 6985MHz



Date: 22.MAY.2022 09:10:24



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

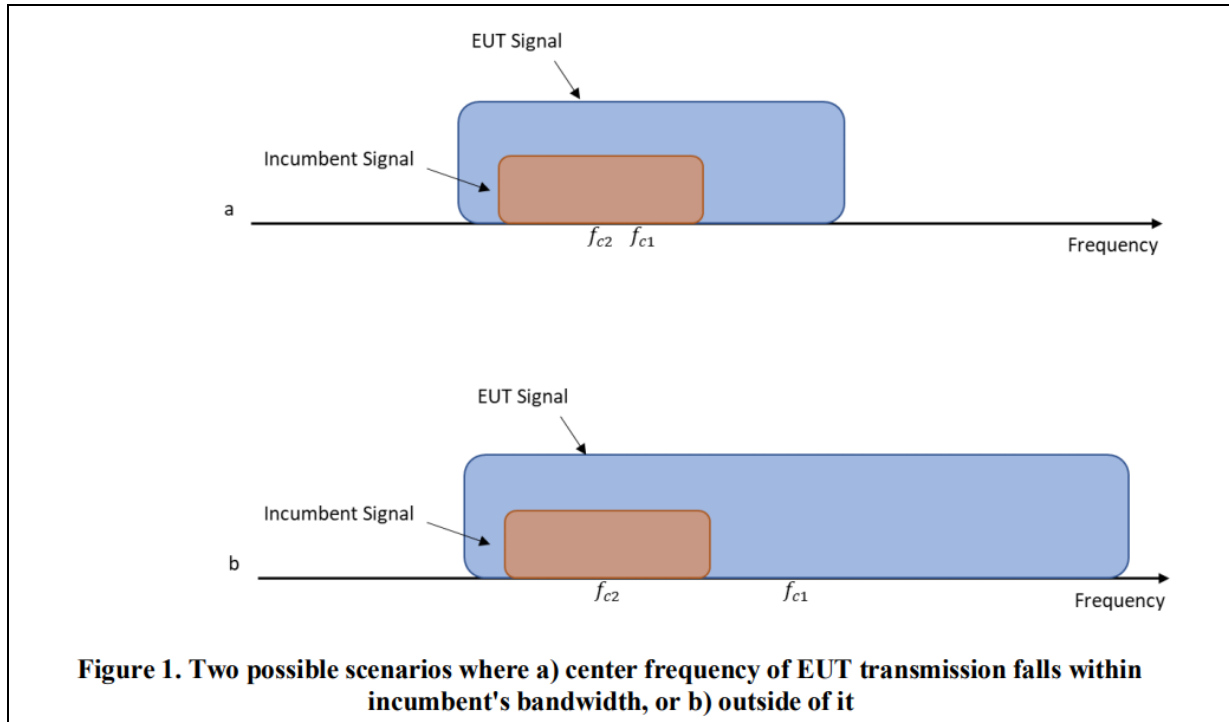
where:

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.

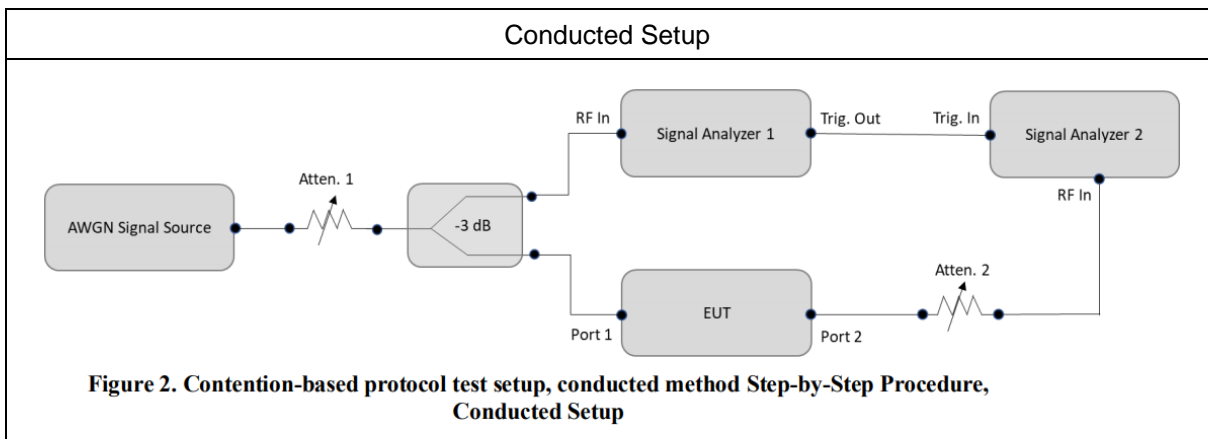
Section I) Contention Based Protocol

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)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)		
UNII Band 5	6135	20	6135	-66.73	100	-62	-64.23	2.23		
				Result: Stop Transmission						
				-70.73	< 90	-62	-68.23	6.23		
				Result: Minimal Operation						
				-71.73	0	-62	-69.23	7.23		
				Result: Normal Operation						
	6185	160	6110	-71.11	100	-62	-68.61	6.61		
				Result: Stop Transmission						
				-75.11	< 90	-62	-72.61	10.61		
				Result: Minimal Operation						
				-76.11	0	-62	-73.61	11.61		
				Result: Normal Operation						
			6185	160	6185	-71.45	100	-62	-68.95	6.95
						Result: Stop Transmission				
						-75.45	< 90	-62	-72.95	10.95
						Result: Minimal Operation				
						-76.45	0	-62	-73.95	11.95
						Result: Normal Operation				
	6260	160	6260	-69.61	100	-62	-67.11	5.11		
				Result: Stop Transmission						
				-73.61	< 90	-62	-71.11	9.11		
				Result: Minimal Operation						
				-74.61	0	-62	-72.11	10.11		
				Result: Normal Operation						

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain -2.5 dBi.

Note 2: The antenna gain has included the cable loss.

Note 3: Margin = Regulated Threshold level - Adjusted Power.



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)		
UNII Band 6	6455	20	6455	-68.19	100	-62	-65.39	3.39		
				Result: Stop Transmission						
				-72.19	< 90	-62	-69.39	7.39		
				Result: Minimal Operation						
				-73.19	0	-62	-70.39	8.39		
				Result: Normal Operation						
	6505	160	6430	-71.2	100	-62	-68.4	6.4		
				Result: Stop Transmission						
				-75.2	< 90	-62	-72.4	10.4		
				Result: Minimal Operation						
				-76.2	0	-62	-73.4	11.4		
				Result: Normal Operation						
			6505	160	6505	-72.75	100	-62	-69.95	7.95
						Result: Stop Transmission				
						-76.75	< 90	-62	-73.95	11.95
						Result: Minimal Operation				
						-77.75	0	-62	-74.95	12.95
						Result: Normal Operation				
6580	160	6580	-73.13	100	-62	-70.33	8.33			
			Result: Stop Transmission							
			-77.13	< 90	-62	-74.33	12.33			
			Result: Minimal Operation							
			-78.13	0	-62	-75.33	13.33			
			Result: Normal Operation							

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain -2.8 dBi.

Note 2: The antenna gain has included the cable loss.

Note 3: Margin = Regulated Threshold level - Adjusted Power.



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)		
UNII Band 7	6695	20	6695	-65.89	100	-62	-63.09	1.09		
				Result: Stop Transmission						
				-69.89	< 90	-62	-67.09	5.09		
				Result: Minimal Operation						
				-70.89	0	-62	-68.09	6.09		
				Result: Normal Operation						
	6665	160	6590	-71.01	100	-62	-68.21	6.21		
				Result: Stop Transmission						
				-75.01	< 90	-62	-72.21	10.21		
				Result: Minimal Operation						
				-76.01	0	-62	-73.21	11.21		
				Result: Normal Operation						
			6665	160	6665	-69.89	100	-62	-67.09	5.09
						Result: Stop Transmission				
						-73.89	< 90	-62	-71.09	9.09
						Result: Minimal Operation				
						-74.89	0	-62	-72.09	10.09
						Result: Normal Operation				
	6740	160	6740	-70.76	100	-62	-67.96	5.96		
				Result: Stop Transmission						
				-74.76	< 90	-62	-71.96	9.96		
				Result: Minimal Operation						
				-75.76	0	-62	-72.96	10.96		
				Result: Normal Operation						

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain -2.8 dBi.

Note 2: The antenna gain has included the cable loss.

Note 3: Margin = Regulated Threshold level - Adjusted Power.



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)		
UNII Band 8	7015	20	7015	-66.25	100	-62	-63.85	1.85		
				Result: Stop Transmission						
				-70.25	< 90	-62	-67.85	5.85		
				Result: Minimal Operation						
				-71.25	0	-62	-68.85	6.85		
				Result: Normal Operation						
	6985	160	6910	-70.57	100	-62	-68.17	6.17		
				Result: Stop Transmission						
				-74.57	< 90	-62	-72.17	10.17		
				Result: Minimal Operation						
				-75.57	0	-62	-73.17	11.17		
				Result: Normal Operation						
			6985	160	6985	-68.43	100	-62	-66.03	4.03
						Result: Stop Transmission				
						-72.43	< 90	-62	-70.03	8.03
						Result: Minimal Operation				
						-73.43	0	-62	-71.03	9.03
						Result: Normal Operation				
7060	160	7060	-68.39	100	-62	-65.99	3.99			
			Result: Stop Transmission							
			-72.39	< 90	-62	-69.99	7.99			
			Result: Minimal Operation							
-73.39	0	-62	-70.99	8.99						
Result: Normal Operation										

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain -2.4 dBi.

Note 2: The antenna gain has included the cable loss.

Note 3: Margin = Regulated Threshold level - Adjusted Power.



3.5.7 Test Plots of Contention Based Protocol Test

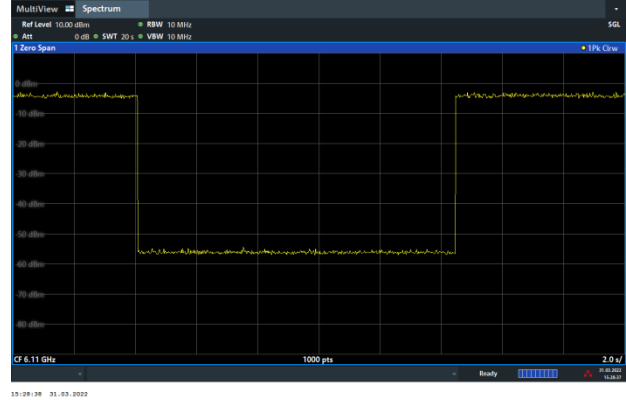
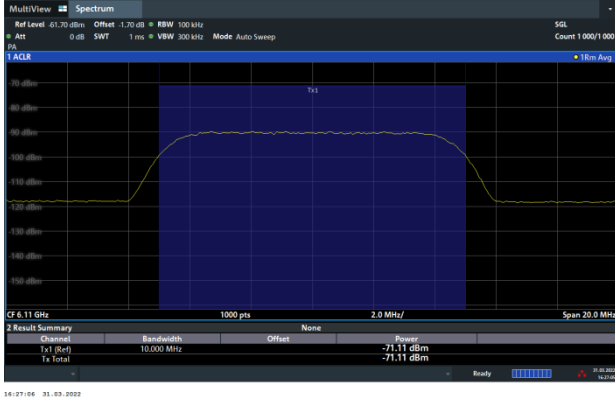
Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)	
<p>802.11ax (HE20) / 6135MHz Threshold Level (TL) = -66.73dBm</p>	<p>802.11ax (HE20) / CH37 Test result is pass due to no transmission occur.</p>
	
<p>802.11ax (HE20) / 6135MHz Threshold Level (TL) = -67.73dBm</p>	<p>802.11ax (HE20) / CH37 Transmit when the interferer is 1dB lower.</p>
	



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

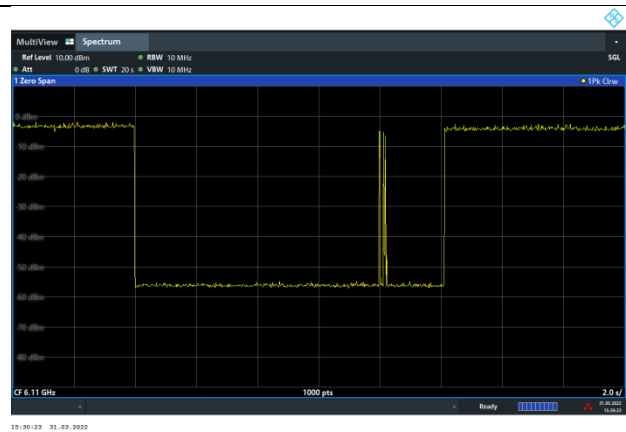
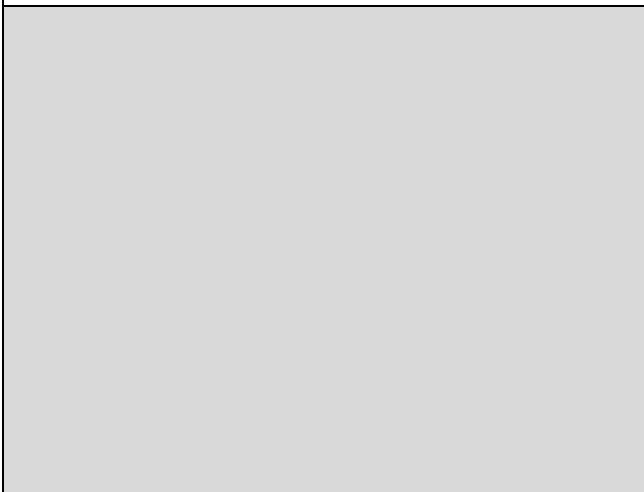
802.11ax (HE160) / 6110MHz (Lower edge)
Threshold Level (TL) = -71.11dBm

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



802.11ax (HE160) / 6110MHz (Lower edge)
Threshold Level (TL) = -72.11dBm

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

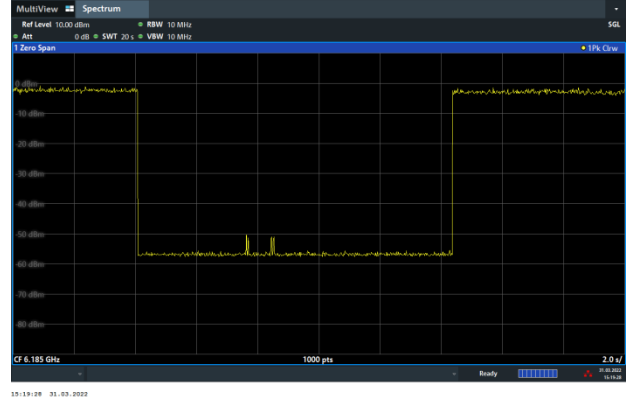
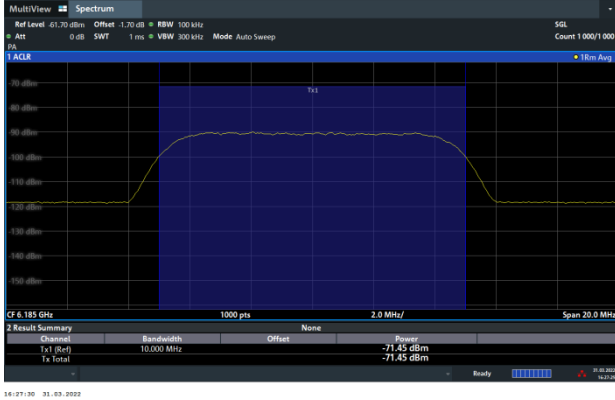




Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)

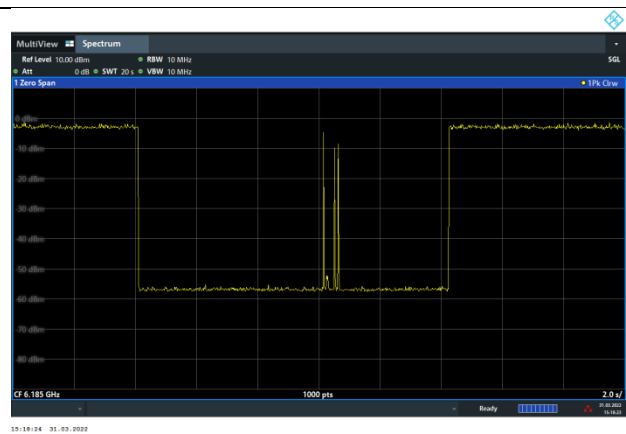
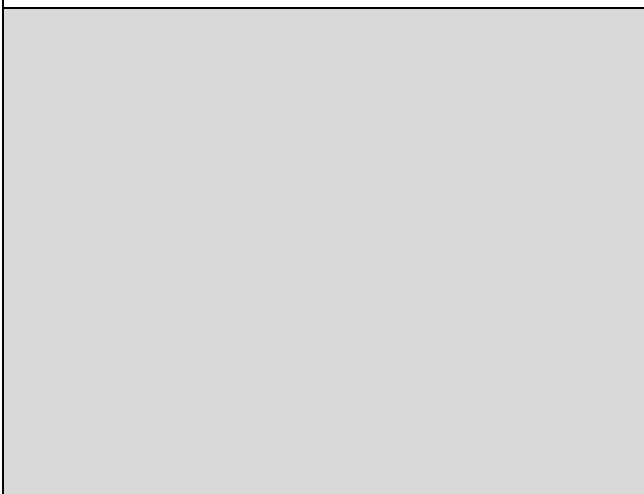
802.11ax (HE160) / 6185MHz (Middle)
Threshold Level (TL) = -71.45dBm

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



802.11ax (HE160) / 6185MHz (Middle)
Threshold Level (TL) = -72.45dBm

802.11ax (HE160) / CH47 (Middle)
Transmit when the interferer is 1dB lower.

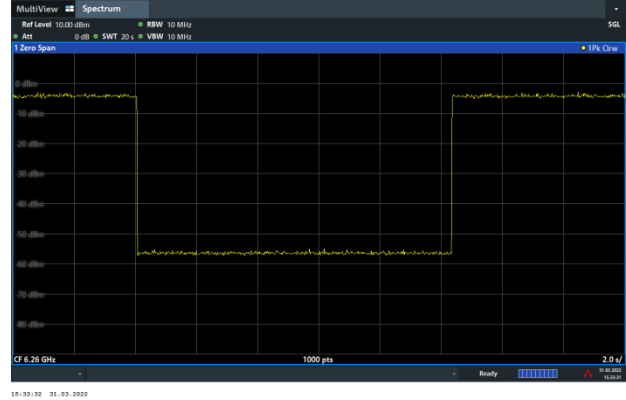
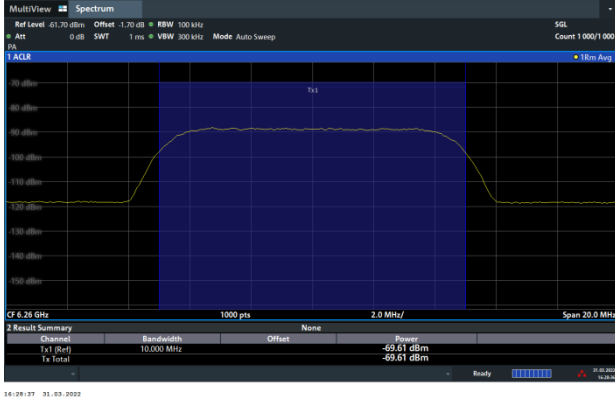




Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)

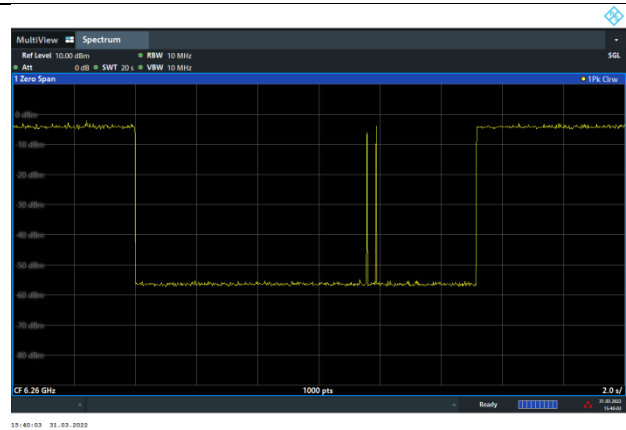
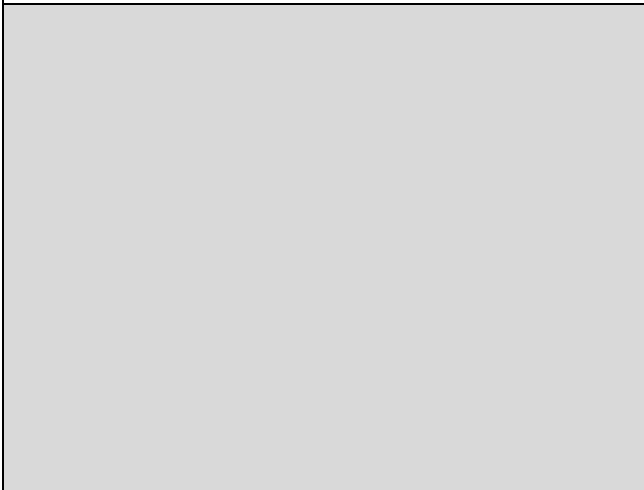
802.11ax (HE160) / 6260MHz (Upper edge)
Threshold Level (TL) = -69.61dBm

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



802.11ax (HE160) / 6260MHz (Upper edge)
Threshold Level (TL) = -70.61dBm

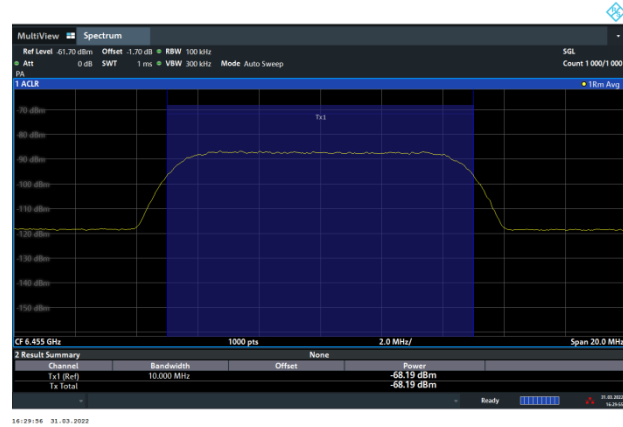
802.11ax (HE160) / CH47 (Upper edge)
Transmit when the interferer is 1dB lower.



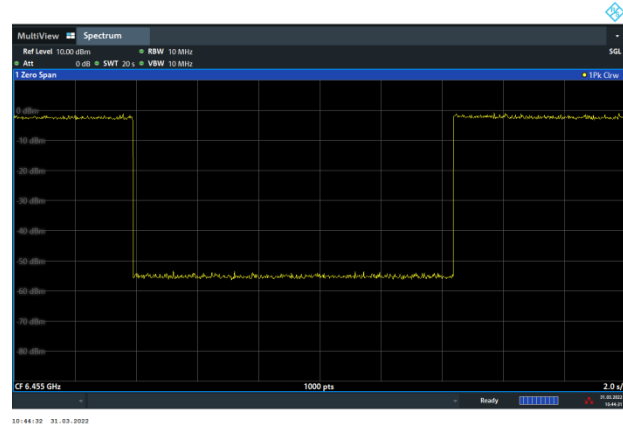


Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

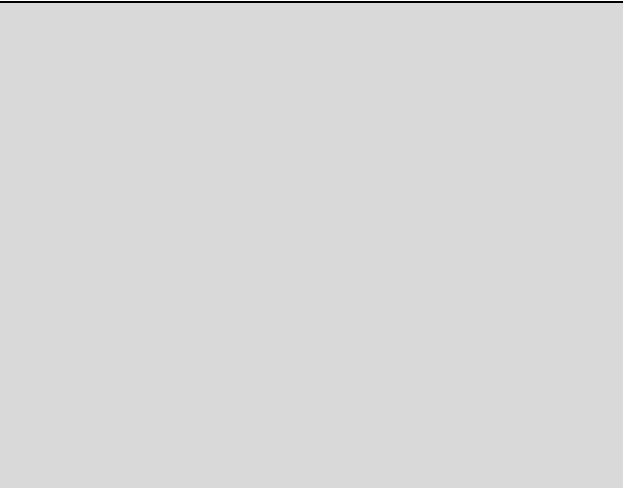
802.11ax (HE20) / 6455MHz
Threshold Level (TL) = -68.19dBm



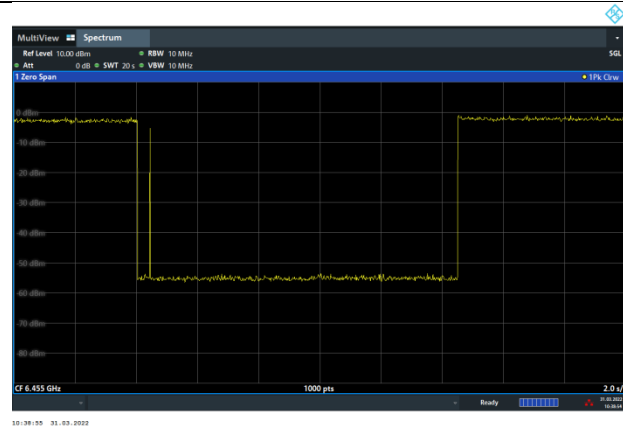
802.11ax (HE20) / CH101
Test result is pass due to no transmission occur.



802.11ax (HE20) / 6455MHz
Threshold Level (TL) = -69.19dBm



802.11ax (HE20) / CH101
Transmit when the interferer is 1dB lower.

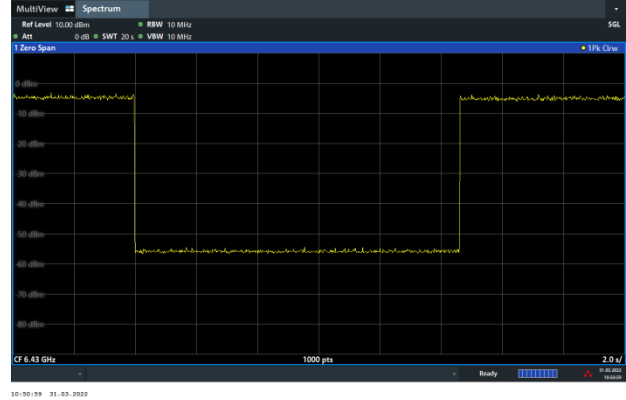
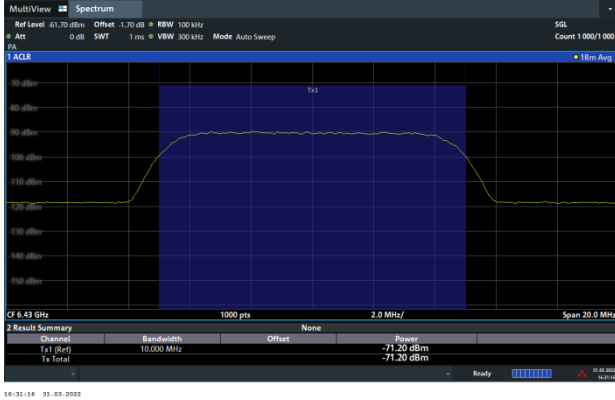




Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

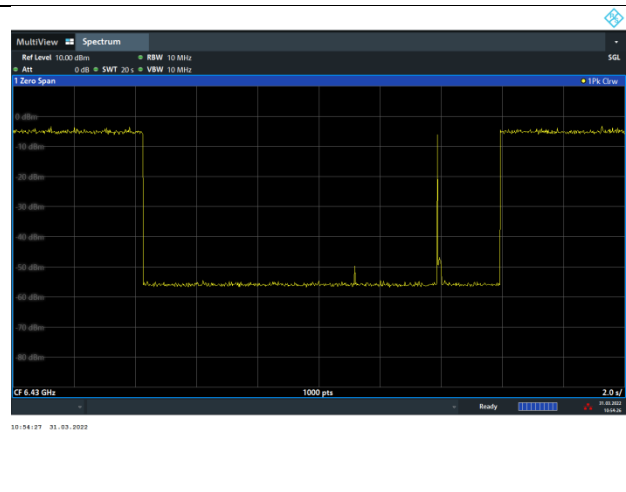
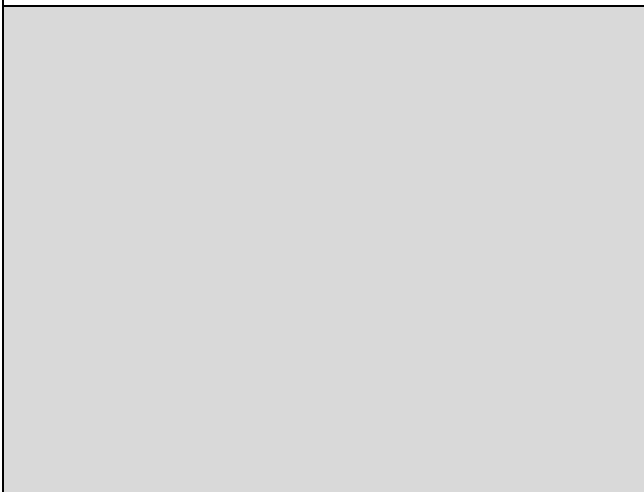
802.11ax (HE160) / 6430MHz (Lower edge)
Threshold Level (TL) = -71.2dBm

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



802.11ax (HE160) / 6430MHz (Lower edge)
Threshold Level (TL) = -72.2dBm

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

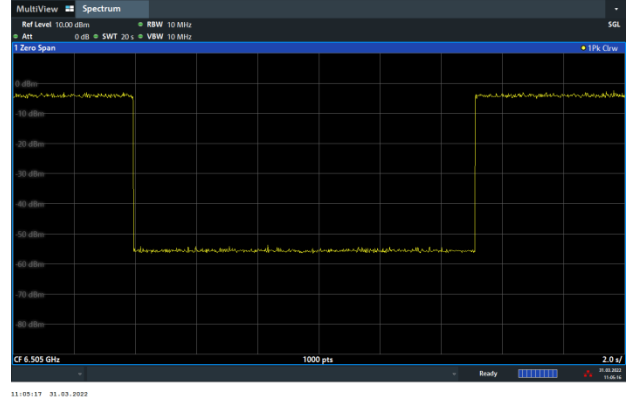
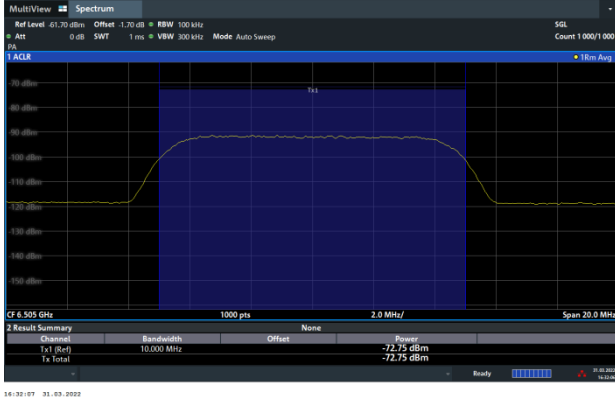




Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

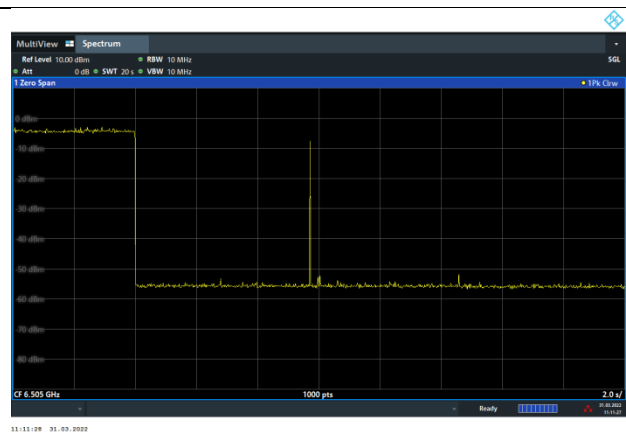
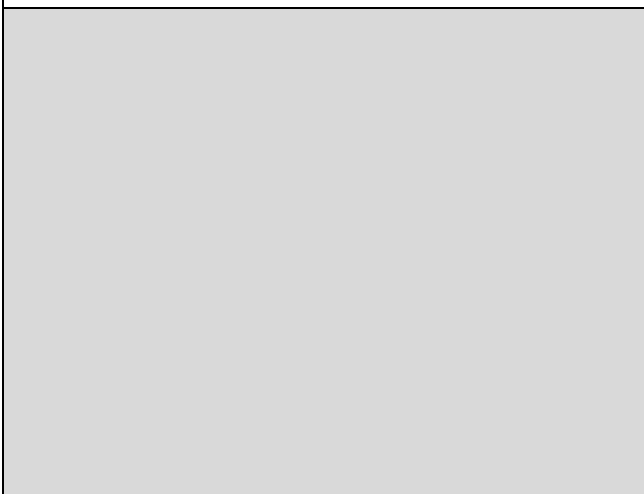
802.11ax (HE160) / 6505MHz (Middle)
Threshold Level (TL) = -72.75dBm

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



802.11ax (HE160) / 6505MHz (Middle)
Threshold Level (TL) = -73.75dBm

802.11ax (HE160) / CH111 (Middle)
Transmit when the interferer is 1dB lower.

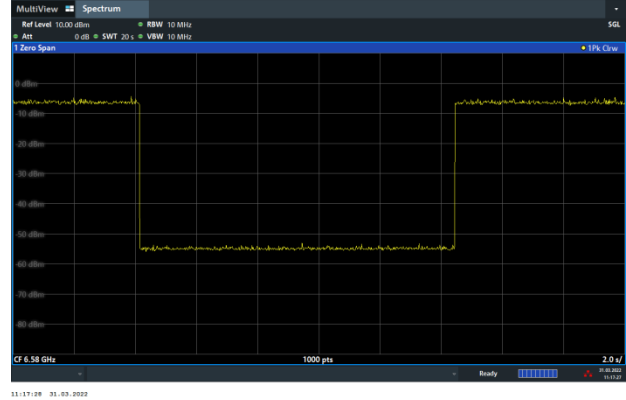
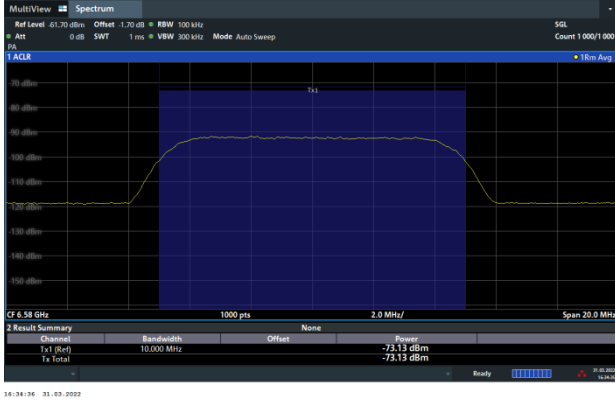




Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

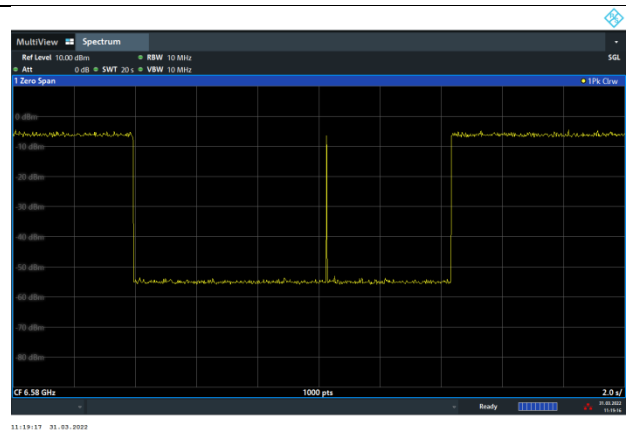
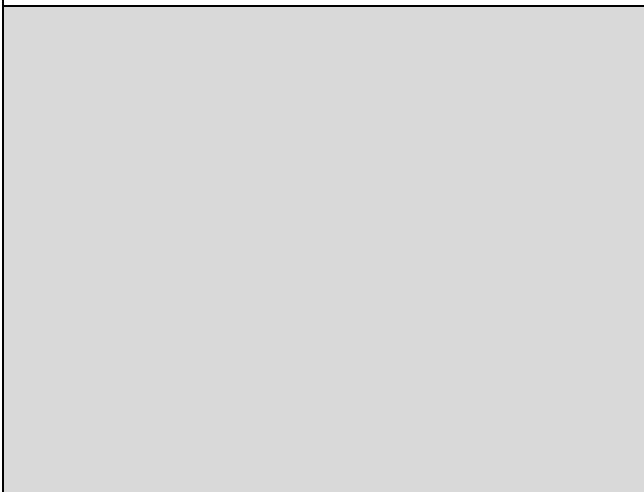
802.11ax (HE160) / 6580MHz (Upper edge)
Threshold Level (TL) = -73.13dBm

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



802.11ax (HE160) / 6580MHz (Upper edge)
Threshold Level (TL) = -74.13dBm

802.11ax (HE160) / CH111 (Upper edge)
Transmit when the interferer is 1dB lower.

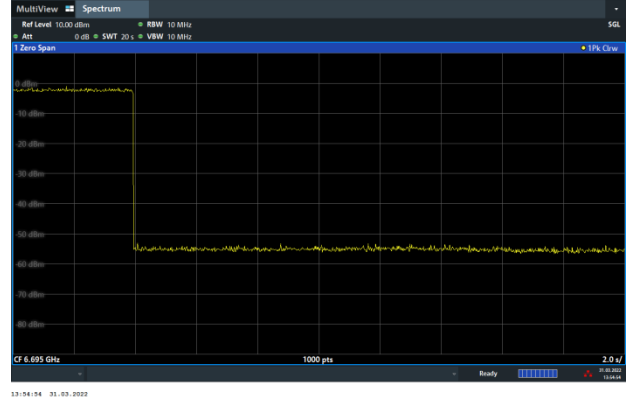
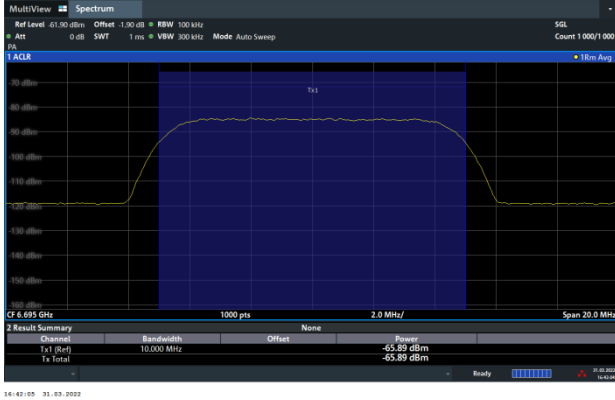




Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

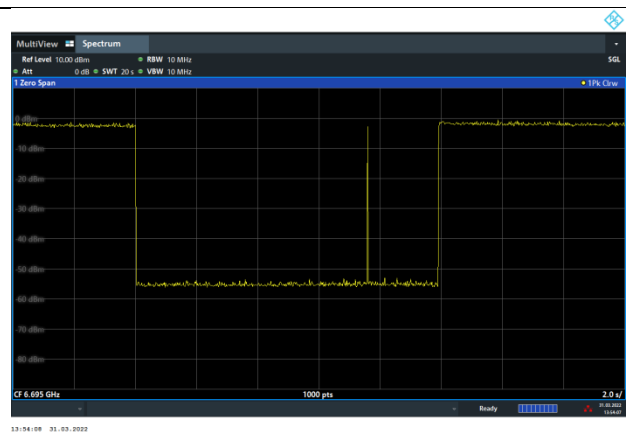
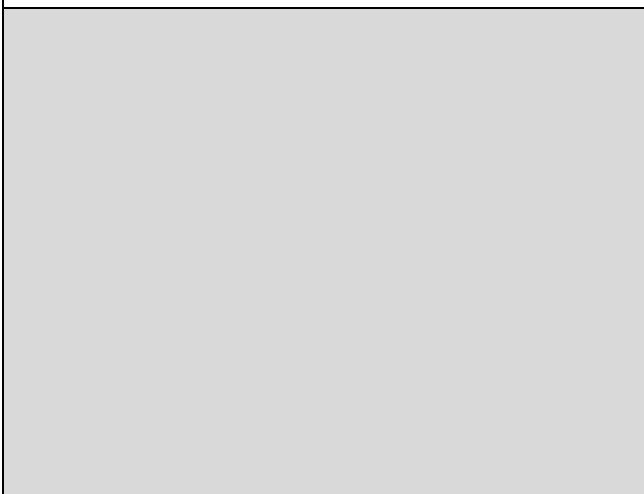
802.11ax (HE20) / 6695MHz
Threshold Level (TL) = -65.89dBm

802.11ax (HE20) / CH149
Test result is pass due to no transmission occur.



802.11ax (HE20) / 6695MHz
Threshold Level (TL) = -66.89dBm

802.11ax (HE20) / CH149
Transmit when the interferer is 1dB lower.

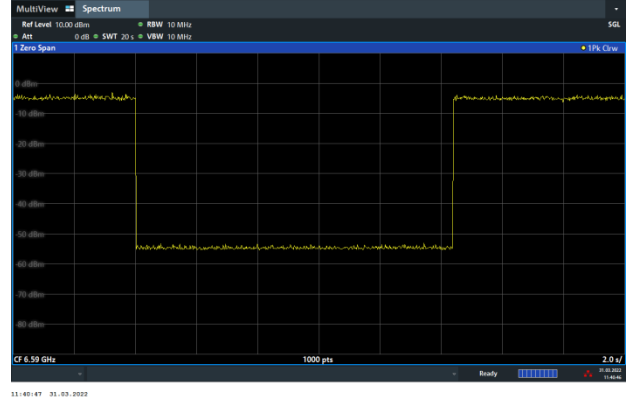
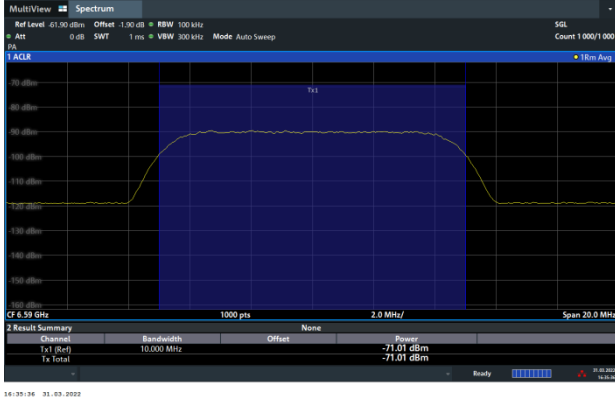




Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

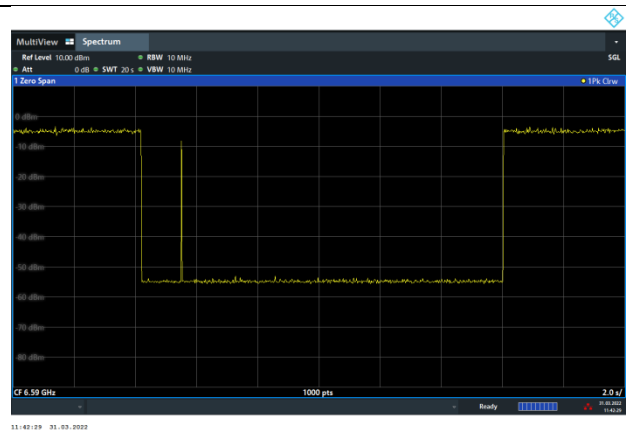
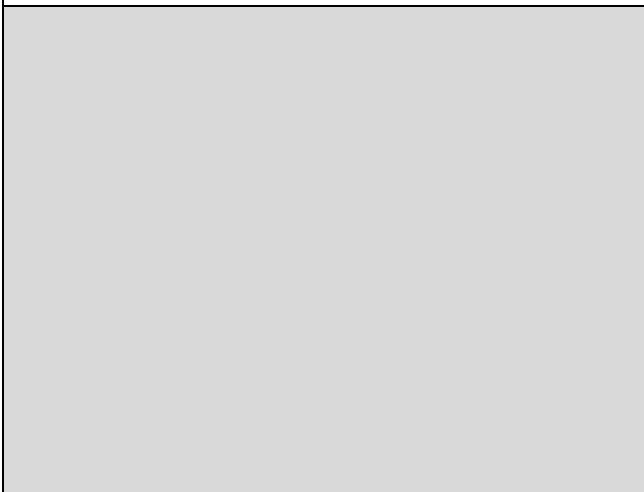
802.11ax (HE160) / 6590MHz (Lower edge)
Threshold Level (TL) = -71.01dBm

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



802.11ax (HE160) / 6590MHz (Lower edge)
Threshold Level (TL) = -72.01dBm

802.11ax (HE160) / CH143 (Lower edge)
Transmit when the interferer is 1dB lower.



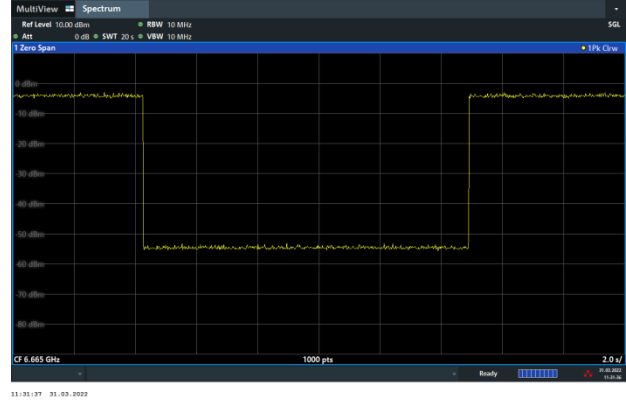
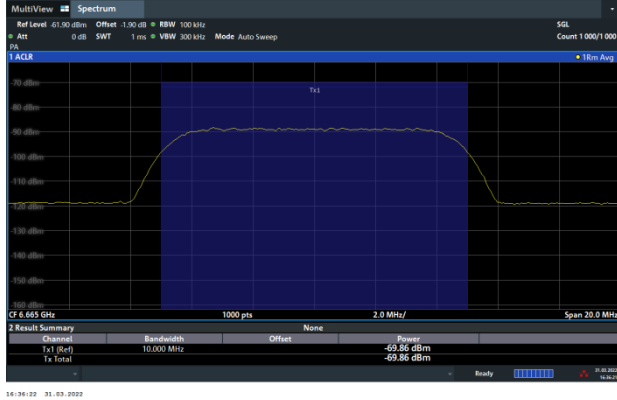


Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

802.11ax (HE160) / 6665MHz (Middle)

802.11ax (HE160) / CH143 (Middle)

Test result is pass due to no transmission occur.

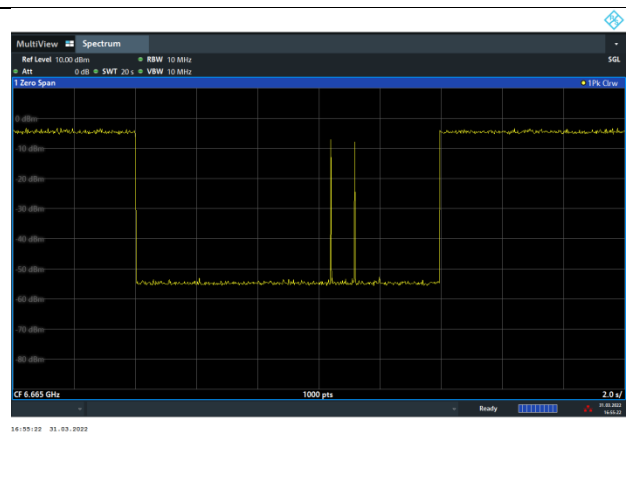
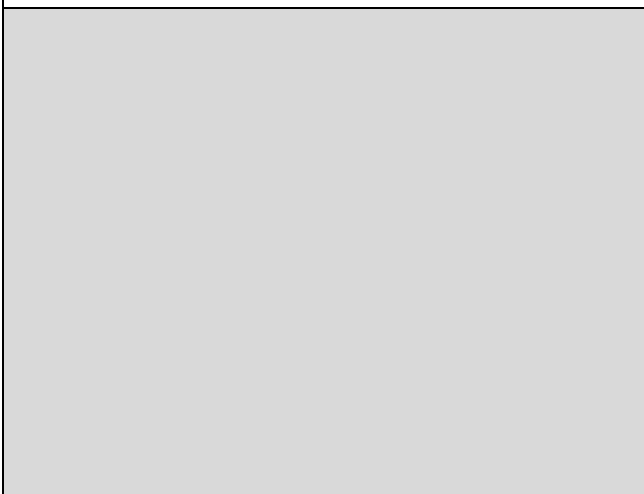


802.11ax (HE160) / 6665MHz (Middle)

Threshold Level (TL) = -70.86dBm

802.11ax (HE160) / CH143 (Middle)

Transmit when the interferer is 1dB lower.

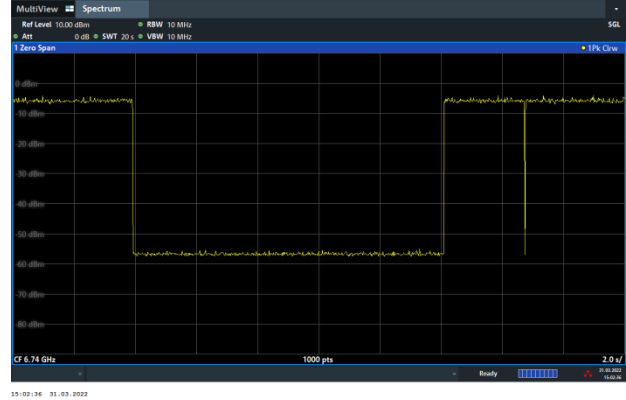
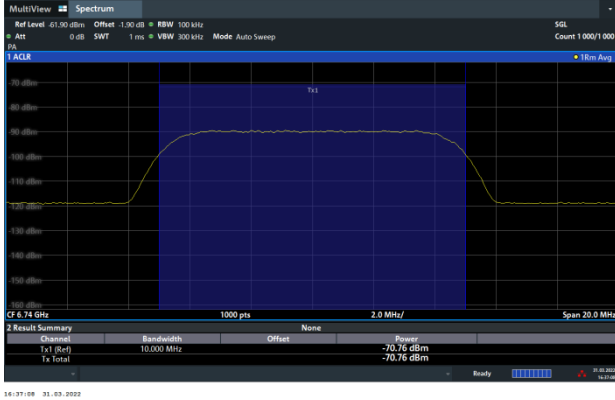




Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

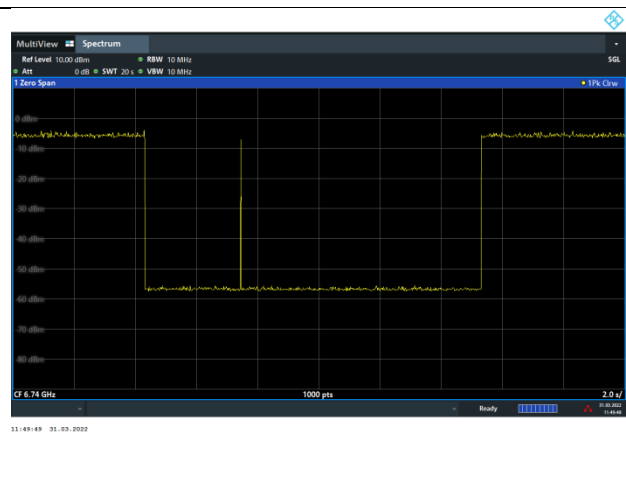
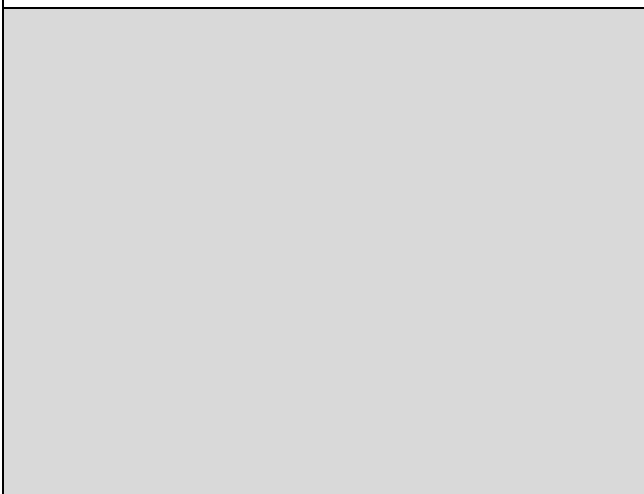
802.11ax (HE160) / 6740MHz (Upper edge)
Threshold Level (TL) = -70.76dBm

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



802.11ax (HE160) / 6740MHz (Upper edge)
Threshold Level (TL) = -71.76dBm

802.11ax (HE160) / CH143 (Upper edge)
Transmit when the interferer is 1dB lower.

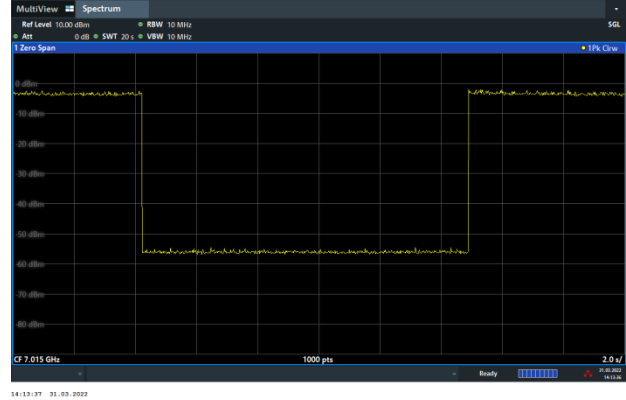
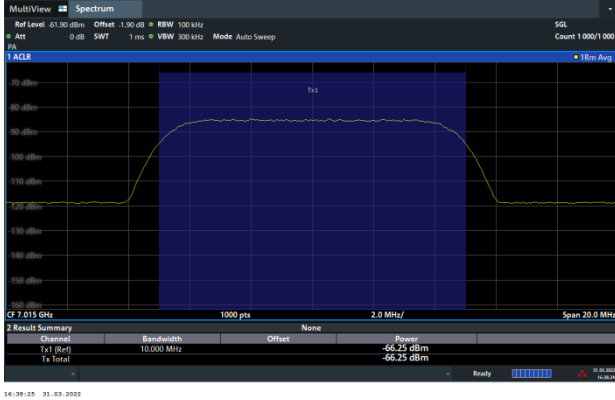




Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

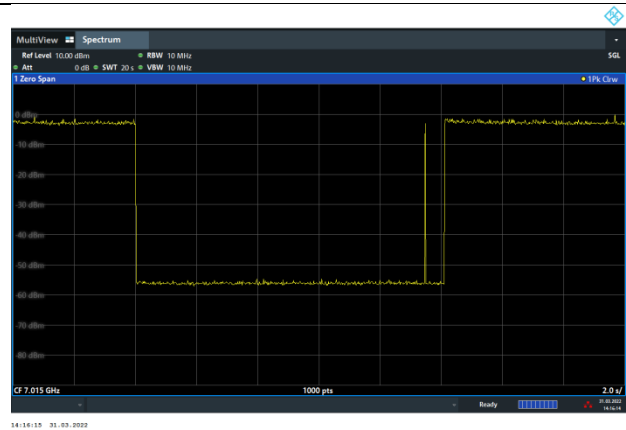
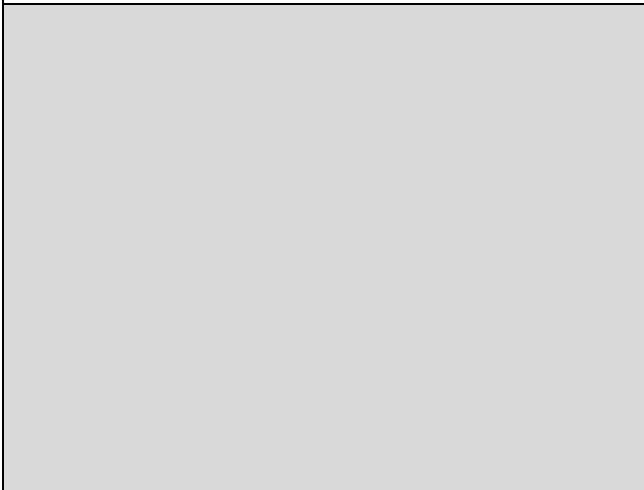
802.11ax (HE20) / 7015MHz
Threshold Level (TL) = -66.25dBm

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



802.11ax (HE20) / 7015MHz
Threshold Level (TL) = -67.25dBm

802.11ax (HE20) / CH213
Transmit when the interferer is 1dB lower.

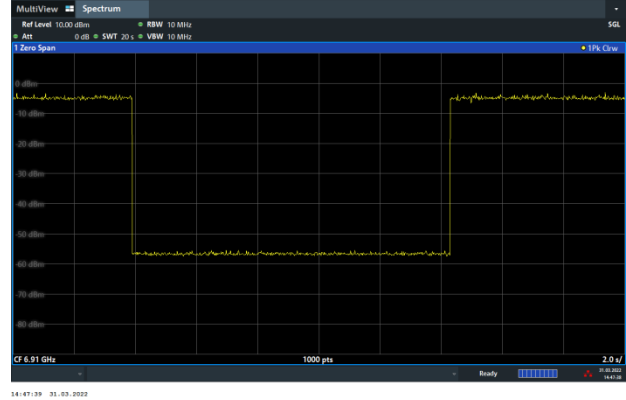
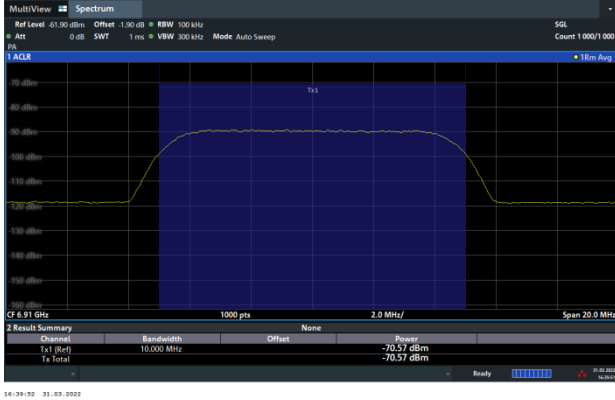




Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

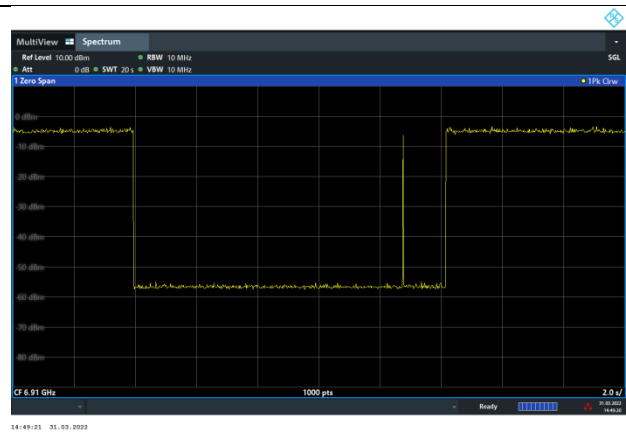
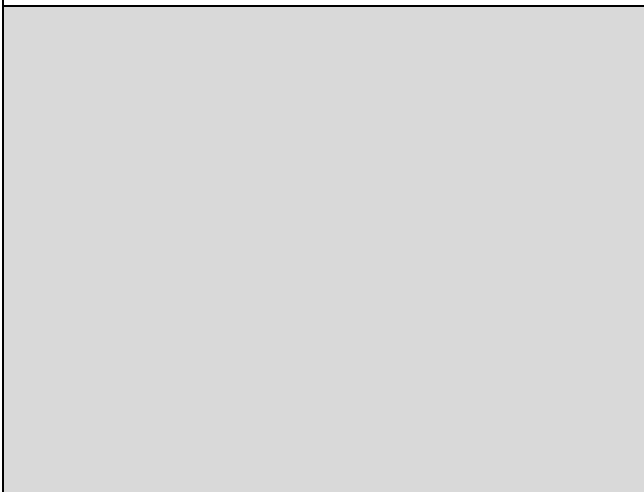
802.11ax (HE160) / 6910MHz (Lower edge)
Threshold Level (TL) = -70.57dBm

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



802.11ax (HE160) / 6910MHz (Lower edge)
Threshold Level (TL) = -71.57dBm

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

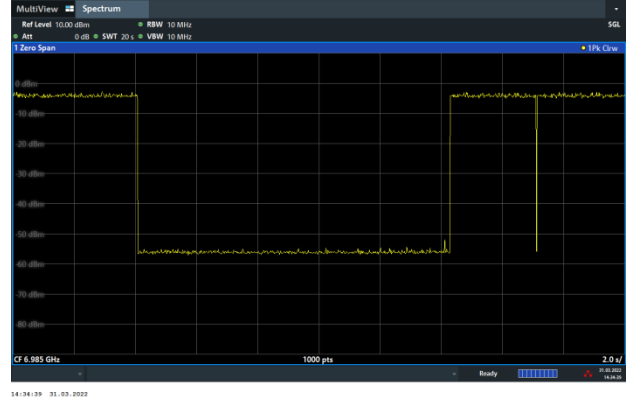
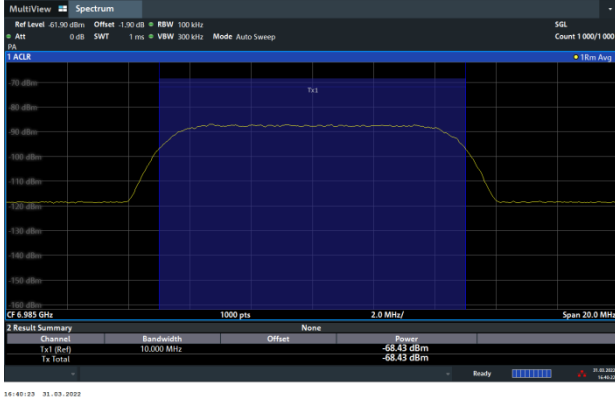




Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

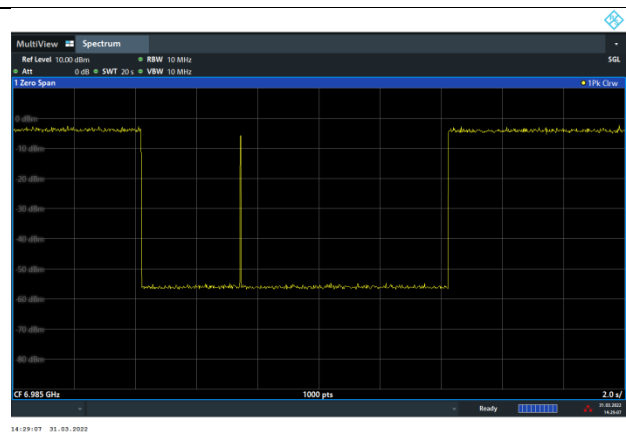
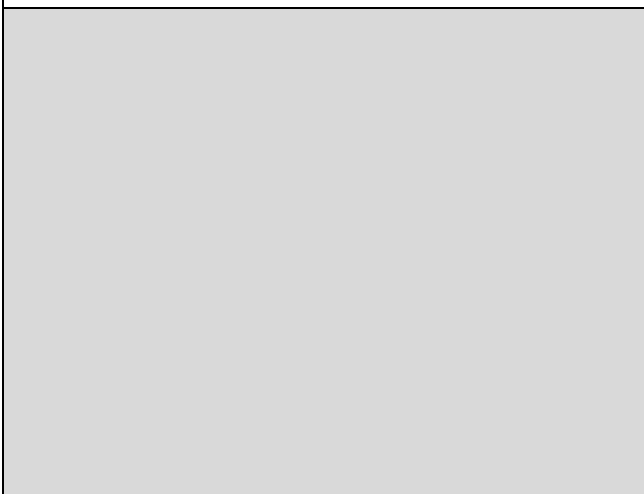
802.11ax (HE160) / 6985MHz (Middle)
Threshold Level (TL) = -68.43dBm

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



802.11ax (HE160) / 6985MHz (Middle)
Threshold Level (TL) = -69.43dBm

802.11ax (HE160) / CH207 (Middle)
Transmit when the interferer is 1dB lower.

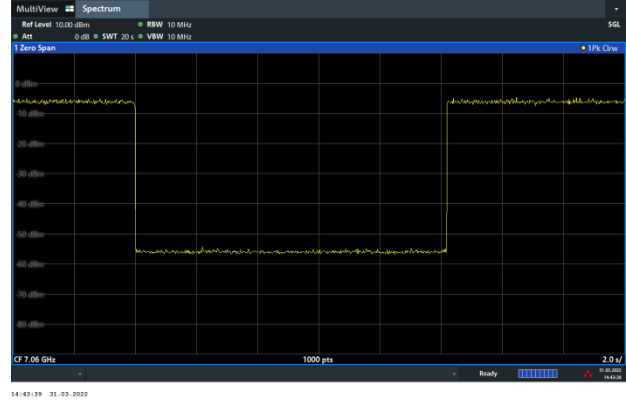
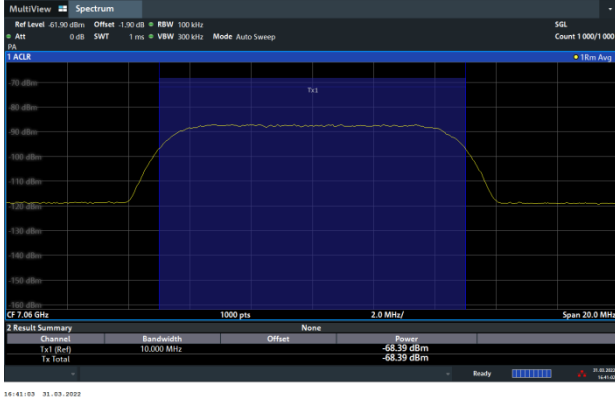




Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

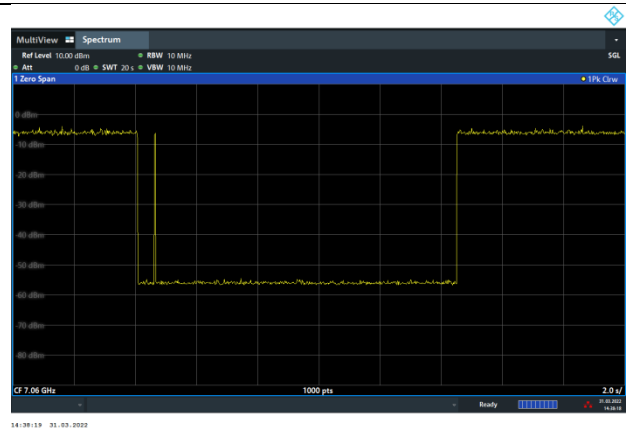
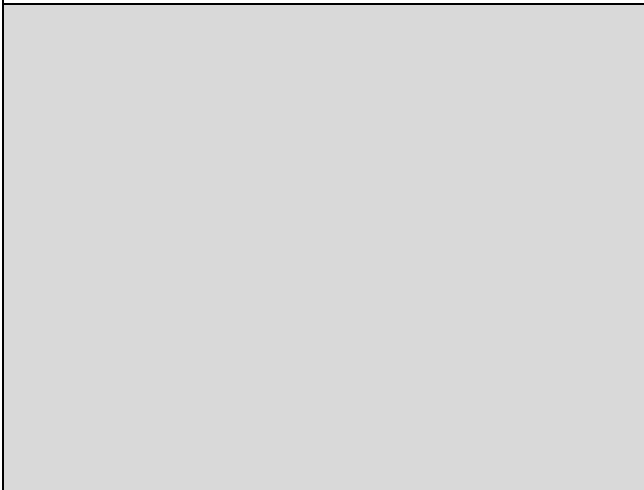
802.11ax (HE160) / 7060MHz (Upper edge)
Threshold Level (TL) = -68.39dBm

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



802.11ax (HE160) / 7060MHz (Upper edge)
Threshold Level (TL) = -69.39dBm

802.11ax (HE160) / CH207 (Upper edge)
Transmit when the 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.



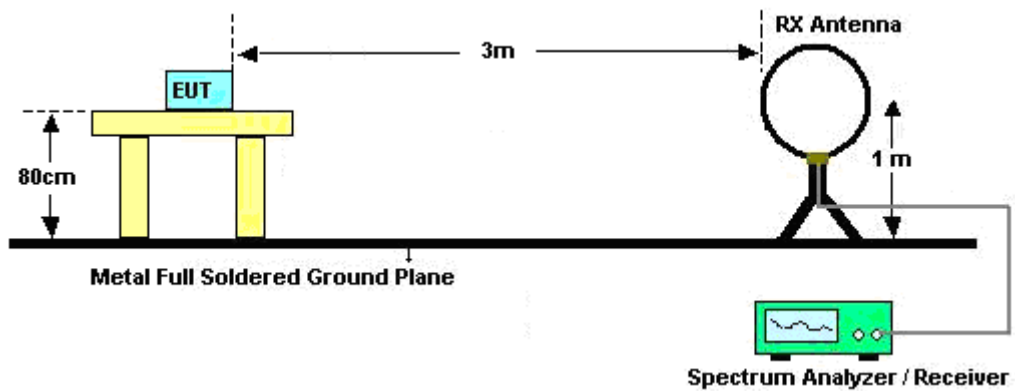
3.6.3 Test Procedures

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 "-".

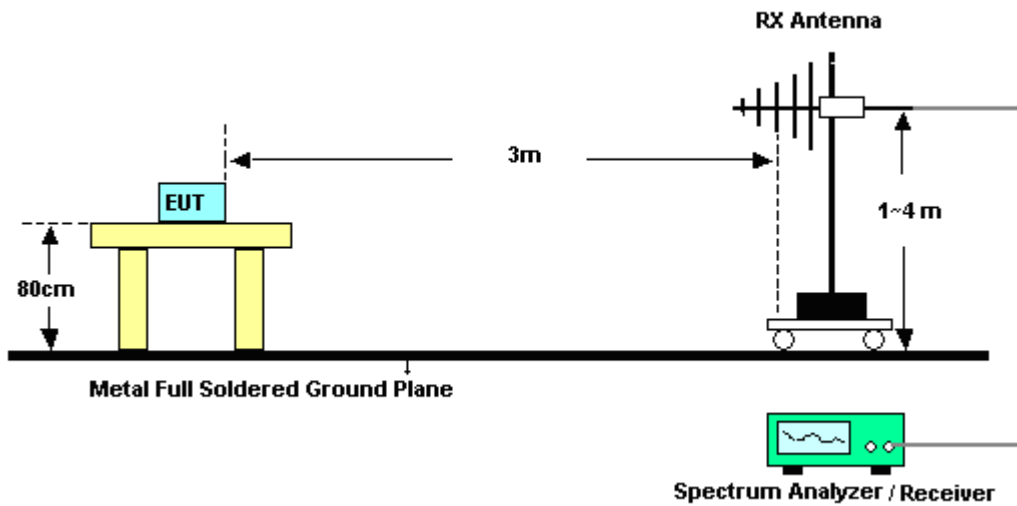
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with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

3.6.4 Test Setup

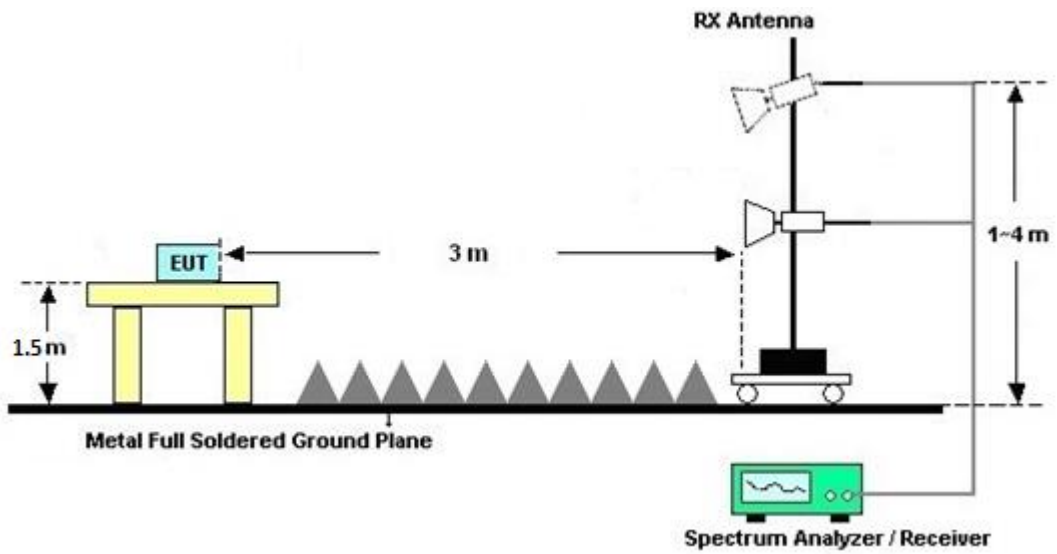
For radiated emissions below 30MHz



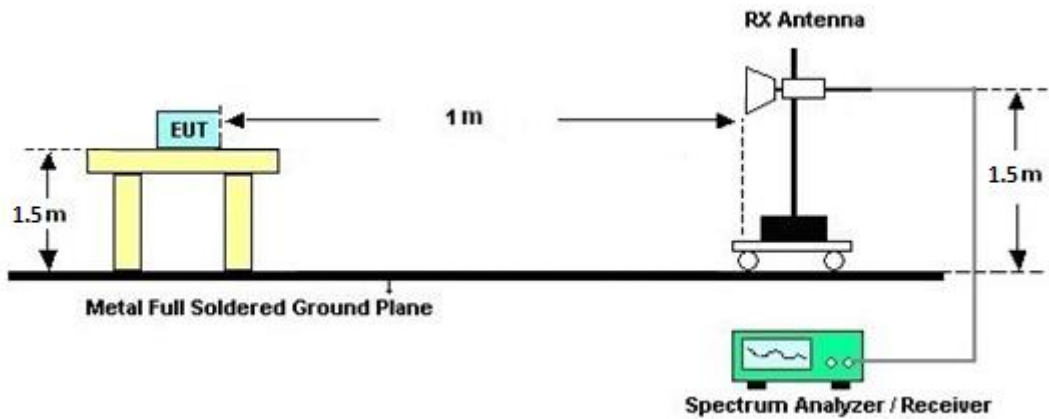
For radiated emissions from 30MHz to 1GHz



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.

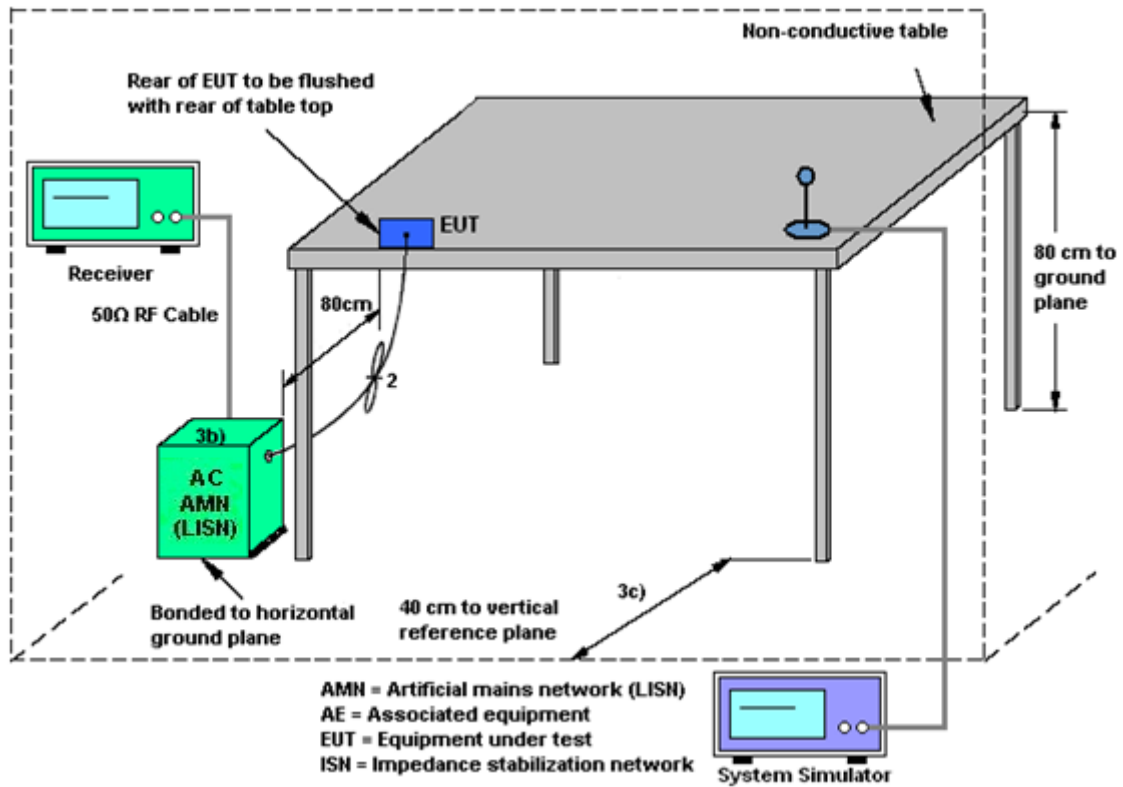
3.7.2 Measuring Instruments

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:

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

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

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

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

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



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

	Ant. 4	Ant. 3	DG	DG
			for	for
	(dBi)	(dBi)	Power	PSD
			(dBi)	(dBi)
5925 MHz ~ 6425 MHz	-1.10	-2.50	-1.10	1.24
6425 MHz ~ 6525 MHz	-1.10	-2.80	-1.10	1.10
6525 MHz ~ 6875 MHz	0.70	-2.80	0.70	2.14
6875 MHz ~ 7125 MHz	-0.80	-2.40	-0.80	1.45

Calculation example:

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

$$10 \times \log \left\{ \left[10^{(-1.10 \text{ dBi} / 20)} + 10^{(-2.50 \text{ dBi} / 20)} \right]^2 / 2 \right\}$$

= 1.24 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	Apr. 13, 2022~ May 18, 2022	Sep. 06, 2022	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz to 1GHz	Oct. 09, 2021	Apr. 13, 2022~ May 18, 2022	Oct. 08, 2022	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02114	1G~18GHz	Aug. 04, 2021	Apr. 13, 2022~ May 18, 2022	Aug. 03, 2022	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00993	18GHz ~40GHz	Nov. 30, 2021	Apr. 13, 2022~ May 18, 2022	Nov. 29, 2022	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Jul. 05, 2021	Apr. 13, 2022~ May 18, 2022	Jul. 04, 2022	Radiation (03CH16-HY)
Amplifier	EMCI	EMC051845S E	980729	1-18GHz	Jul. 09, 2021	Apr. 13, 2022~ May 18, 2022	Jul. 08, 2022	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Apr. 13, 2022~ May 18, 2022	Jun. 21, 2022	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 09, 2021	Apr. 13, 2022~ May 18, 2022	Dec. 08, 2022	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A	MY59053012	3Hz~26.5GHz	Nov. 18, 2021	Apr. 13, 2022~ May 18, 2022	Nov. 17, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4P E	NA	Aug. 28, 2021	Apr. 13, 2022~ May 18, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4P E	NA	Aug. 28, 2021	Apr. 13, 2022~ May 18, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5 757	NA	Aug. 28, 2021	Apr. 13, 2022~ May 18, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Apr. 13, 2022~ May 18, 2022	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Apr. 13, 2022~ May 18, 2022	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Apr. 13, 2022~ May 18, 2022	N/A	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Mar. 29, 2022~ Jul. 19, 2022	Nov. 15, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W #010	RPR6W-2101 002(NO:123)	10MHz~8GHz	Jan. 13, 2022	Mar. 29, 2022~ Jul. 19, 2022	Jan. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Mar. 29, 2022~ Jul. 19, 2022	Aug. 29, 2022	Conducted (TH05-HY)
Switch Control Mainframe	E-IUSTRUME NT	ETF-1405-0	EC1900067 (BOX7)	N/A	Aug. 12, 2021	Mar. 29, 2022~ Jul. 19, 2022	Aug. 11, 2022	Conducted (TH05-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 20, 2022	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	Apr. 20, 2022	Nov. 30, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	Apr. 20, 2022	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 03, 2021	Apr. 20, 2022	Dec. 02, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Apr. 20, 2022	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00691	N/A	Jul. 28, 2021	Apr. 20, 2022	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 30, 2021	Apr. 20, 2022	Dec. 29, 2022	Conduction (CO05-HY)
Signal Generator (Interferer)	Rohde & Schwarz	SMW200A	109425	100kHz~7.5GHz	Jan. 13, 2022	Mar. 31, 2022	Jan. 12, 2023	CBP (DF02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	Apr. 20, 2021	Mar. 31, 2022	Apr. 19, 2022	CBP (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A1	0.5GHz-18GHz	Calibration from System	Mar. 31, 2022	Calibration from System	CBP (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A2	0.5GHz-18GHz	Calibration from System	Mar. 31, 2022	Calibration from System	CBP (DF02-HY)
Coupler	Woken	10dB 30W SMA	DOM5CIW3A1	0.5-18GHz	Calibration from System	Mar. 31, 2022	Calibration from System	CBP (DF02-HY)
Power Divider	Woken	3Way SMA Power Divder Rated to 20W	ST108-0010(#2)	2GHz-8GHz	Calibration from System	Mar. 31, 2022	Calibration from System	CBP (DF02-HY)



5 Uncertainty of Evaluation

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

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:	Shiming Liu	Temperature:	21~25	°C
Test Date:	2022/3/29~2022/5/22	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band V 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	5955	Full	19.23	19.23	21.90	22.05	
HE20	MCS0	2	6195	Full	19.23	19.08	21.85	21.80	
HE20	MCS0	2	6415	Full	19.23	19.23	21.95	21.75	
HE40	MCS0	2	5965	Full	37.86	37.86	39.87	39.96	
HE40	MCS0	2	6205	Full	37.86	37.86	40.14	39.96	
HE40	MCS0	2	6405	Full	37.96	37.86	40.32	39.96	
HE80	MCS0	2	5985	Full	77.20	77.08	81.92	81.76	
HE80	MCS0	2	6225	Full	77.20	77.20	82.56	82.08	
HE80	MCS0	2	6385	Full	77.08	77.08	82.24	82.08	
HE160	MCS0	2	6025	Full	156.80	156.32	167.04	166.40	
HE160	MCS0	2	6185	Full	156.56	156.32	166.08	166.08	
HE160	MCS0	2	6345	Full	156.32	156.56	166.72	165.76	

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			
HE20	MCS0	2	5955	Full	5.70	5.50	8.61	-1.10		7.51	24.00	Pass
HE20	MCS0	2	5955	26/0	-2.30	-3.40	0.20	-1.10		-0.90	24.00	Pass
HE20	MCS0	2	5955	52/37	0.00	0.00	3.01	-1.10		1.91	24.00	Pass
HE20	MCS0	2	5955	106/53	2.80	2.70	5.76	-1.10		4.66	24.00	Pass
HE20	MCS0	2	6195	Full	5.90	6.20	9.06	-1.10		7.96	24.00	Pass
HE20	MCS0	2	6195	26/4	-3.20	-2.30	0.28	-1.10		-0.82	24.00	Pass
HE20	MCS0	2	6195	52/39	-1.00	-0.60	2.21	-1.10		1.11	24.00	Pass
HE20	MCS0	2	6195	106/53	1.80	2.80	5.34	-1.10		4.24	24.00	Pass
HE20	MCS0	2	6415	Full	5.40	6.20	8.83	-1.10		7.73	24.00	Pass
HE20	MCS0	2	6415	26/8	-4.10	-3.10	-0.56	-1.10		-1.66	24.00	Pass
HE20	MCS0	2	6415	52/40	-1.50	-0.30	2.15	-1.10		1.05	24.00	Pass
HE20	MCS0	2	6415	106/54	1.50	2.50	5.04	-1.10		3.94	24.00	Pass
HE40	MCS0	2	5965	Full	9.90	9.30	12.62	-1.10		11.52	24.00	Pass
HE40	MCS0	2	6205	Full	9.20	9.40	12.31	-1.10		11.21	24.00	Pass
HE40	MCS0	2	6405	Full	8.60	9.40	12.03	-1.10		10.93	24.00	Pass
HE80	MCS0	2	5985	Full	12.40	12.00	15.21	-1.10		14.11	24.00	Pass
HE80	MCS0	2	6225	Full	11.90	12.50	15.22	-1.10		14.12	24.00	Pass
HE80	MCS0	2	6385	Full	11.60	12.30	14.97	-1.10		13.87	24.00	Pass
HE160	MCS0	2	6025	Full	14.90	14.80	17.86	-1.10		16.76	24.00	Pass
HE160	MCS0	2	6185	Full	14.80	14.50	17.66	-1.10		16.56	24.00	Pass
HE160	MCS0	2	6345	Full	14.60	15.10	17.87	-1.10		16.77	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band V MIMO														
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	SUM		
HE20	MCS0	2	5955	Full	0.18	0.18			-2.40	1.24	-1.17	-1.00	Pass	
HE20	MCS0	2	5955	26/0	0.48	0.49			-2.52	1.24	-1.28	-1.00	Pass	
HE20	MCS0	2	5955	52/37	0.52	0.52			-2.53	1.24	-1.29	-1.00	Pass	
HE20	MCS0	2	5955	106/53	0.58	0.60			-2.71	1.24	-1.47	-1.00	Pass	
HE20	MCS0	2	6195	Full	0.18	0.18			-2.90	1.24	-1.66	-1.00	Pass	
HE20	MCS0	2	6195	26/4	0.48	0.49			-3.16	1.24	-1.92	-1.00	Pass	
HE20	MCS0	2	6195	52/39	0.52	0.52			-3.25	1.24	-2.01	-1.00	Pass	
HE20	MCS0	2	6195	106/53	0.58	0.60			-3.38	1.24	-2.14	-1.00	Pass	
HE20	MCS0	2	6415	Full	0.18	0.18			-2.87	1.24	-1.63	-1.00	Pass	
HE20	MCS0	2	6415	26/8	0.48	0.49			-2.91	1.24	-1.67	-1.00	Pass	
HE20	MCS0	2	6415	52/40	0.52	0.52			-3.22	1.24	-1.98	-1.00	Pass	
HE20	MCS0	2	6415	106/54	0.58	0.60			-3.16	1.24	-1.92	-1.00	Pass	
HE40	MCS0	2	5965	Full	0.34	0.35			-2.30	1.24	-1.06	-1.00	Pass	
HE40	MCS0	2	6205	Full	0.34	0.35			-2.67	1.24	-1.43	-1.00	Pass	
HE40	MCS0	2	6405	Full	0.34	0.35			-2.69	1.24	-1.45	-1.00	Pass	
HE80	MCS0	2	5985	Full	0.65	0.65			-2.43	1.24	-1.19	-1.00	Pass	
HE80	MCS0	2	6225	Full	0.65	0.65			-2.56	1.24	-1.32	-1.00	Pass	
HE80	MCS0	2	6385	Full	0.65	0.65			-2.58	1.24	-1.34	-1.00	Pass	
HE160	MCS0	2	6025	Full	0.70	0.70			-2.50	1.24	-1.26	-1.00	Pass	
HE160	MCS0	2	6185	Full	0.70	0.70			-2.72	1.24	-1.48	-1.00	Pass	
HE160	MCS0	2	6345	Full	0.70	0.70			-2.47	1.24	-1.23	-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	19.23	19.23	22.10	21.90	
HE20	MCS0	2	6475	Full	19.23	19.18	22.15	21.80	
HE20	MCS0	2	6515	Full	19.18	19.23	21.90	21.80	
HE40	MCS0	2	6445	Full	37.86	37.86	39.96	40.14	
HE40	MCS0	2	6485	Full	37.86	37.86	39.96	40.05	
HE80	MCS0	2	6465	Full	77.32	77.08	82.40	82.08	

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	77.20	77.08	82.40	82.24							
HE160	MCS0	2	6505	Full	156.32	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	6.70	6.70	9.71	-1.10		8.61	24.00	Pass
HE20	MCS0	2	6435	26/0	-3.00	-2.30	0.37	-1.10		-0.73	24.00	Pass
HE20	MCS0	2	6435	52/37	-0.20	0.50	3.17	-1.10		2.07	24.00	Pass
HE20	MCS0	2	6435	106/53	3.30	2.90	6.11	-1.10		5.01	24.00	Pass
HE20	MCS0	2	6475	Full	6.40	6.40	9.41	-1.10		8.31	24.00	Pass
HE20	MCS0	2	6475	26/4	-2.40	-2.10	0.76	-1.10		-0.34	24.00	Pass
HE20	MCS0	2	6475	52/39	-0.40	-0.30	2.66	-1.10		1.56	24.00	Pass
HE20	MCS0	2	6475	106/54	2.70	2.50	5.61	-1.10		4.51	24.00	Pass
HE20	MCS0	2	6515	Full	6.60	6.50	9.56	-1.10		8.46	24.00	Pass
HE20	MCS0	2	6515	26/8	-3.20	-2.40	0.23	-1.10		-0.87	24.00	Pass
HE20	MCS0	2	6515	52/40	-0.10	0.10	3.01	-1.10		1.91	24.00	Pass
HE20	MCS0	2	6515	106/54	2.80	3.10	5.96	-1.10		4.86	24.00	Pass
HE40	MCS0	2	6445	Full	9.80	9.10	12.47	-1.10		11.37	24.00	Pass
HE40	MCS0	2	6485	Full	9.30	9.30	12.31	-1.10		11.21	24.00	Pass
HE80	MCS0	2	6465	Full	12.00	11.90	14.96	-1.10		13.86	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	9.90	9.40	12.67	-1.10		11.57	24.00	Pass
HE80	MCS0	2	6545	Full	12.20	12.00	15.11	-1.10		14.01	24.00	Pass
HE160	MCS0	2	6505	Full	15.00	15.00	18.01	-1.10		16.91	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

Band VI MIMO														
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3			
HE20	MCS0	2	6435	Full	0.18	0.18			-2.25	1.10	-1.15	-1.00	Pass	
HE20	MCS0	2	6435	26/0	0.48	0.49			-2.36	1.10	-1.26	-1.00	Pass	
HE20	MCS0	2	6435	52/37	0.52	0.52			-2.45	1.10	-1.35	-1.00	Pass	
HE20	MCS0	2	6435	106/53	0.58	0.60			-2.40	1.10	-1.30	-1.00	Pass	
HE20	MCS0	2	6475	Full	0.18	0.18			-2.51	1.10	-1.41	-1.00	Pass	
HE20	MCS0	2	6475	26/4	0.48	0.49			-2.77	1.10	-1.67	-1.00	Pass	
HE20	MCS0	2	6475	52/39	0.52	0.52			-2.78	1.10	-1.68	-1.00	Pass	
HE20	MCS0	2	6475	106/54	0.58	0.60			-2.76	1.10	-1.65	-1.00	Pass	
HE20	MCS0	2	6515	Full	0.18	0.18			-2.27	1.10	-1.17	-1.00	Pass	
HE20	MCS0	2	6515	26/8	0.48	0.49			-2.29	1.10	-1.19	-1.00	Pass	
HE20	MCS0	2	6515	52/40	0.52	0.52			-2.38	1.10	-1.28	-1.00	Pass	
HE20	MCS0	2	6515	106/54	0.58	0.60			-2.33	1.10	-1.23	-1.00	Pass	
HE40	MCS0	2	6445	Full	0.34	0.35			-2.55	1.10	-1.45	-1.00	Pass	
HE40	MCS0	2	6485	Full	0.34	0.35			-2.57	1.10	-1.47	-1.00	Pass	
HE80	MCS0	2	6465	Full	0.65	0.65			-2.53	1.10	-1.43	-1.00	Pass	

FCC Band VI straddle channel MIMO														
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3			
HE40	MCS0	2	6525	Full	0.34	0.35			-2.58	1.10	-1.48	-1.00	Pass	
HE80	MCS0	2	6545	Full	0.65	0.65			-2.38	1.10	-1.28	-1.00	Pass	
HE160	MCS0	2	6505	Full	0.70	0.70			-2.18	1.10	-1.08	-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	19.18	19.18	21.90	21.90	
HE20	MCS0	2	6695	Full	19.18	19.23	22.00	21.80	
HE20	MCS0	2	6855	Full	19.23	19.23	21.95	22.10	
HE40	MCS0	2	6565	Full	37.86	37.96	39.87	39.78	
HE40	MCS0	2	6685	Full	38.06	38.06	40.05	40.32	
HE40	MCS0	2	6845	Full	37.96	37.86	40.14	40.32	
HE80	MCS0	2	6625	Full	77.32	77.08	82.24	82.08	
HE80	MCS0	2	6705	Full	77.20	76.96	83.04	81.76	
HE80	MCS0	2	6785	Full	77.08	77.08	82.40	82.24	
HE160	MCS0	2	6665	Full	156.56	156.80	166.72	166.08	

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	19.23	19.23	22.00	22.05							
HE40	MCS0	2	6885	Full	37.96	37.96	40.14	40.05							
HE80	MCS0	2	6865	Full	77.08	77.08	82.08	82.24							
HE160	MCS0	2	6825	Full	156.80	156.80	165.44	166.40							

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			
HE20	MCS0	2	6535	Full	5.50	5.60	8.56	0.70	0.70	9.26	24.00	Pass
HE20	MCS0	2	6535	26/0	-3.90	-3.80	-0.84	0.70	0.70	-0.14	24.00	Pass
HE20	MCS0	2	6535	52/37	-1.30	-0.60	2.07	0.70	0.70	2.77	24.00	Pass
HE20	MCS0	2	6535	106/53	2.00	2.10	5.06	0.70	0.70	5.76	24.00	Pass
HE20	MCS0	2	6695	Full	5.70	5.50	8.61	0.70	0.70	9.31	24.00	Pass
HE20	MCS0	2	6695	26/4	-3.20	-2.50	0.17	0.70	0.70	0.87	24.00	Pass
HE20	MCS0	2	6695	52/38	-1.20	-0.70	2.07	0.70	0.70	2.77	24.00	Pass
HE20	MCS0	2	6695	106/53	1.60	1.90	4.76	0.70	0.70	5.46	24.00	Pass
HE20	MCS0	2	6855	Full	5.90	6.00	8.96	0.70	0.70	9.66	24.00	Pass
HE20	MCS0	2	6855	26/8	-3.70	-3.40	-0.54	0.70	0.70	0.16	24.00	Pass
HE20	MCS0	2	6855	52/40	-0.90	-0.50	2.31	0.70	0.70	3.01	24.00	Pass
HE20	MCS0	2	6855	106/54	2.10	2.00	5.06	0.70	0.70	5.76	24.00	Pass
HE40	MCS0	2	6565	Full	8.90	8.30	11.62	0.70	0.70	12.32	24.00	Pass
HE40	MCS0	2	6685	Full	8.60	8.30	11.46	0.70	0.70	12.16	24.00	Pass
HE40	MCS0	2	6845	Full	8.50	8.50	11.51	0.70	0.70	12.21	24.00	Pass
HE80	MCS0	2	6625	Full	11.70	11.30	14.51	0.70	0.70	15.21	24.00	Pass
HE80	MCS0	2	6705	Full	11.40	11.30	14.36	0.70	0.70	15.06	24.00	Pass
HE80	MCS0	2	6785	Full	11.00	11.10	14.06	0.70	0.70	14.76	24.00	Pass
HE160	MCS0	2	6665	Full	13.80	13.30	16.57	0.70	0.70	17.27	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	5.60	6.10	8.87	0.70	0.70	9.57	24.00	Pass
HE20	MCS0	2	6875	26/8	-4.00	-3.30	-0.63	0.70	0.70	0.07	24.00	Pass
HE20	MCS0	2	6875	52/40	-1.30	-0.80	1.97	0.70	0.70	2.67	24.00	Pass
HE20	MCS0	2	6875	106/54	1.70	2.20	4.97	0.70	0.70	5.67	24.00	Pass
HE40	MCS0	2	6885	Full	8.70	8.90	11.81	0.70	0.70	12.51	24.00	Pass
HE80	MCS0	2	6865	Full	11.40	11.60	14.51	0.70	0.70	15.21	24.00	Pass
HE160	MCS0	2	6825	Full	13.90	14.00	16.96	0.70	0.70	17.66	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VII MIMO														
Mod.	Data Rate	N _{Tx}	Freq. (MHz)	RU Config	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3			
HE20	MCS0	2	6535	Full	0.18	0.18			-3.41	2.14	-1.27	-1.00	Pass	
HE20	MCS0	2	6535	26/0	0.48	0.49			-3.44	2.14	-1.30	-1.00	Pass	
HE20	MCS0	2	6535	52/37	0.52	0.52			-3.44	2.14	-1.30	-1.00	Pass	
HE20	MCS0	2	6535	106/53	0.58	0.60			-3.61	2.14	-1.47	-1.00	Pass	
HE20	MCS0	2	6695	Full	0.18	0.18			-3.43	2.14	-1.29	-1.00	Pass	
HE20	MCS0	2	6695	26/4	0.48	0.49			-3.63	2.14	-1.50	-1.00	Pass	
HE20	MCS0	2	6695	52/38	0.52	0.52			-3.53	2.14	-1.40	-1.00	Pass	
HE20	MCS0	2	6695	106/53	0.58	0.60			-3.84	2.14	-1.70	-1.00	Pass	
HE20	MCS0	2	6855	Full	0.18	0.18			-3.25	2.14	-1.11	-1.00	Pass	
HE20	MCS0	2	6855	26/8	0.48	0.49			-3.55	2.14	-1.42	-1.00	Pass	
HE20	MCS0	2	6855	52/40	0.52	0.52			-3.42	2.14	-1.28	-1.00	Pass	
HE20	MCS0	2	6855	106/54	0.58	0.60			-3.66	2.14	-1.52	-1.00	Pass	
HE40	MCS0	2	6565	Full	0.34	0.35			-3.21	2.14	-1.08	-1.00	Pass	
HE40	MCS0	2	6685	Full	0.34	0.35			-3.22	2.14	-1.08	-1.00	Pass	
HE40	MCS0	2	6845	Full	0.34	0.35			-3.45	2.14	-1.31	-1.00	Pass	
HE80	MCS0	2	6625	Full	0.65	0.65			-3.17	2.14	-1.04	-1.00	Pass	
HE80	MCS0	2	6705	Full	0.65	0.65			-3.19	2.14	-1.05	-1.00	Pass	
HE80	MCS0	2	6785	Full	0.65	0.65			-3.44	2.14	-1.30	-1.00	Pass	
HE160	MCS0	2	6665	Full	0.70	0.70			-3.58	2.14	-1.44	-1.00	Pass	

FCC Band VII straddle channel MIMO														
Mod.	Data Rate	N _{Tx}	Freq. (MHz)	RU Config	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3			
HE20	MCS0	2	6875	Full	0.18	0.18			-3.61	2.14	-1.47	-1.00	Pass	
HE20	MCS0	2	6875	26/8	0.48	0.49			-3.62	2.14	-1.48	-1.00	Pass	
HE20	MCS0	2	6875	52/40	0.52	0.52			-3.91	2.14	-1.78	-1.00	Pass	
HE20	MCS0	2	6875	106/54	0.58	0.60			-3.88	2.14	-1.75	-1.00	Pass	
HE40	MCS0	2	6885	Full	0.34	0.35			-3.18	2.14	-1.04	-1.00	Pass	
HE80	MCS0	2	6865	Full	0.65	0.65			-3.15	2.14	-1.01	-1.00	Pass	
HE160	MCS0	2	6825	Full	0.70	0.70			-3.25	2.14	-1.11	-1.00	Pass	

TEST RESULTS DATA
26dB EBW and 99% OBW

Band VIII 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	6895	Full	19.18	19.23	21.80	21.75	
HE20	MCS0	2	6995	Full	19.08	19.18	21.80	21.65	
HE20	MCS0	2	7095	Full	19.23	19.13	21.75	21.90	
HE40	MCS0	2	6925	Full	37.96	37.86	39.78	40.05	
HE40	MCS0	2	7005	Full	37.76	37.76	39.69	39.69	
HE40	MCS0	2	7085	Full	37.76	37.76	40.05	40.05	
HE80	MCS0	2	6945	Full	77.08	77.20	82.72	81.92	
HE80	MCS0	2	7025	Full	76.96	77.20	81.76	81.60	
HE160	MCS0	2	6985	Full	156.56	156.56	166.40	166.08	

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	6.40	6.70	9.56	-0.80		8.76	24.00	Pass
HE20	MCS0	2	6895	26/0	-3.10	-2.60	0.17	-0.80		-0.63	24.00	Pass
HE20	MCS0	2	6895	52/37	-0.30	0.60	3.18	-0.80		2.38	24.00	Pass
HE20	MCS0	2	6895	106/53	2.40	3.10	5.77	-0.80		4.97	24.00	Pass
HE20	MCS0	2	6995	Full	6.30	6.00	9.16	-0.80		8.36	24.00	Pass
HE20	MCS0	2	6995	26/4	-2.50	-2.00	0.77	-0.80		-0.03	24.00	Pass
HE20	MCS0	2	6995	52/38	-0.20	-0.20	2.81	-0.80		2.01	24.00	Pass
HE20	MCS0	2	6995	106/53	2.70	2.90	5.81	-0.80		5.01	24.00	Pass
HE20	MCS0	2	7095	Full	6.30	5.60	8.97	-0.80		8.17	24.00	Pass
HE20	MCS0	2	7095	26/8	-3.90	-4.20	-1.04	-0.80		-1.84	24.00	Pass
HE20	MCS0	2	7095	52/40	-0.80	-0.70	2.26	-0.80		1.46	24.00	Pass
HE20	MCS0	2	7095	106/54	2.40	2.40	5.41	-0.80		4.61	24.00	Pass
HE40	MCS0	2	6925	Full	9.40	8.80	12.12	-0.80		11.32	24.00	Pass
HE40	MCS0	2	7005	Full	9.00	8.40	11.72	-0.80		10.92	24.00	Pass
HE40	MCS0	2	7085	Full	9.30	8.60	11.97	-0.80		11.17	24.00	Pass
HE80	MCS0	2	6945	Full	12.50	11.90	15.22	-0.80		14.42	24.00	Pass
HE80	MCS0	2	7025	Full	11.60	11.30	14.46	-0.80		13.66	24.00	Pass
HE160	MCS0	2	6985	Full	14.40	14.70	17.56	-0.80		16.76	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VIII MIMO														
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	SUM		
HE20	MCS0	2	6895	Full	0.18	0.18			-2.49	1.45	-1.05	-1.00	Pass	
HE20	MCS0	2	6895	26/0	0.48	0.49			-2.66	1.45	-1.21	-1.00	Pass	
HE20	MCS0	2	6895	52/37	0.52	0.52			-2.55	1.45	-1.10	-1.00	Pass	
HE20	MCS0	2	6895	106/53	0.58	0.60			-2.86	1.45	-1.41	-1.00	Pass	
HE20	MCS0	2	6995	Full	0.18	0.18			-2.62	1.45	-1.18	-1.00	Pass	
HE20	MCS0	2	6995	26/4	0.48	0.49			-2.99	1.45	-1.54	-1.00	Pass	
HE20	MCS0	2	6995	52/38	0.52	0.52			-2.79	1.45	-1.35	-1.00	Pass	
HE20	MCS0	2	6995	106/53	0.58	0.60			-2.82	1.45	-1.38	-1.00	Pass	
HE20	MCS0	2	7095	Full	0.18	0.18			-2.74	1.45	-1.30	-1.00	Pass	
HE20	MCS0	2	7095	26/8	0.48	0.49			-3.23	1.45	-1.78	-1.00	Pass	
HE20	MCS0	2	7095	52/40	0.52	0.52			-2.94	1.45	-1.49	-1.00	Pass	
HE20	MCS0	2	7095	106/54	0.58	0.60			-2.95	1.45	-1.50	-1.00	Pass	
HE40	MCS0	2	6925	Full	0.34	0.35			-2.88	1.45	-1.43	-1.00	Pass	
HE40	MCS0	2	7005	Full	0.34	0.35			-2.64	1.45	-1.19	-1.00	Pass	
HE40	MCS0	2	7085	Full	0.34	0.35			-2.60	1.45	-1.16	-1.00	Pass	
HE80	MCS0	2	6945	Full	0.65	0.65			-2.47	1.45	-1.02	-1.00	Pass	
HE80	MCS0	2	7025	Full	0.65	0.65			-2.74	1.45	-1.29	-1.00	Pass	
HE160	MCS0	2	6985	Full	0.70	0.70			-2.56	1.45	-1.11	-1.00	Pass	

Test Engineer:	Shiming Liu	Temperature:	21~25	°C
Test Date:	2022/7/19	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band V MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	5955	17.53	17.33	21.95	21.80	
11a	6Mbps	2	6195	17.38	17.13	21.95	21.85	
11a	6Mbps	2	6415	17.68	17.28	22.20	21.80	

TEST RESULTS DATA
EIRP Power Table

FCC Band V MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 4	Ant 3	SUM	Ant 4	Ant 3			
11a	6Mbps	2	5955	4.90	4.90	7.91	-1.10		6.81	24.00	Pass
11a	6Mbps	2	6195	4.50	5.00	7.77	-1.10		6.67	24.00	Pass
11a	6Mbps	2	6415	4.60	5.50	8.08	-1.10		6.98	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band V MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail	
				Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	SUM			
11a	6Mbps	2	5955	0.29	0.29			-4.08	1.24		-2.84	-1.00	Pass	
11a	6Mbps	2	6195	0.29	0.29				-3.94	1.24		-2.70	-1.00	Pass
11a	6Mbps	2	6415	0.29	0.29				-3.66	1.24		-2.42	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band VI MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	6435	17.53	17.23	22.15	21.75	
11a	6Mbps	2	6475	17.58	17.23	22.10	21.70	
11a	6Mbps	2	6515	17.53	17.23	22.15	22.20	

TEST RESULTS DATA
EIRP Power Table

FCC Band VI MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 4	Ant 3	SUM	Ant 4	Ant 3			
11a	6Mbps	2	6435	4.90	5.40	8.17	-1.10		7.07	24.00	Pass
11a	6Mbps	2	6475	5.10	5.60	8.37	-1.10		7.27	24.00	Pass
11a	6Mbps	2	6515	5.10	5.00	8.06	-1.10		6.96	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VI MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail	
				Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	SUM			
11a	6Mbps	2	6435	0.29	0.29			-3.61	1.10		-2.51	-1.00	Pass	
11a	6Mbps	2	6475	0.29	0.29				-3.18	1.10		-2.08	-1.00	Pass
11a	6Mbps	2	6515	0.29	0.29				-3.42	1.10		-2.31	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band VII MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	6535	17.48	17.28	22.15	21.85	
11a	6Mbps	2	6695	18.03	17.58	47.65	33.45	
11a	6Mbps	2	6855	17.78	17.53	35.55	22.15	

Band VII straddle channel MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	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	
11a	6Mbps	2	6875	17.83	17.33	34.55	21.95							

TEST RESULTS DATA
EIRP Power Table

FCC Band VII MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 4	Ant 3	SUM	Ant 4	Ant 3			
11a	6Mbps	2	6535	4.60	4.80	7.71	0.70	8.41	24.00	Pass	
11a	6Mbps	2	6695	4.30	4.10	7.21	0.70	7.91	24.00	Pass	
11a	6Mbps	2	6855	4.50	4.70	7.61	0.70	8.31	24.00	Pass	

FCC Band VII straddle channel MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 4	Ant 3	SUM	Ant 4	Ant 3			
11a	6Mbps	2	6875	4.70	5.30	8.02	0.70	8.72	24.00	Pass	

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VII MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	SUM		
11a	6Mbps	2	6535	0.29	0.29			-4.02	2.14		-1.88	-1.00	Pass
11a	6Mbps	2	6695	0.29	0.29			-4.55	2.14		-2.41	-1.00	Pass
11a	6Mbps	2	6855	0.29	0.29			-4.44	2.14		-2.30	-1.00	Pass

FCC Band VII straddle channel MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	SUM		
11a	6Mbps	2	6875	0.29	0.29			-4.26	2.14		-2.13	-1.00	Pass

TEST RESULTS DATA
26dB EBW and 99% OBW

Band VIII MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	6895	17.88	17.43	34.85	22.30	
11a	6Mbps	2	6995	17.43	17.13	32.20	22.05	
11a	6Mbps	2	7095	17.18	17.03	21.70	21.95	

TEST RESULTS DATA
EIRP Power Table

FCC Band VIII MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 4	Ant 3	SUM	Ant 4	Ant 3			
11a	6Mbps	2	6895	5.00	5.50	8.27	-0.80		7.47	24.00	Pass
11a	6Mbps	2	6995	4.40	4.80	7.61	-0.80		6.81	24.00	Pass
11a	6Mbps	2	7095	5.80	4.60	8.25	-0.80		7.45	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VIII MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	SUM		
11a	6Mbps	2	6895	0.29	0.29			-3.71	1.45		-2.26	-1.00	Pass
11a	6Mbps	2	6995	0.29	0.29			-3.65	1.45		-2.20	-1.00	Pass
11a	6Mbps	2	7095	0.29	0.29			-3.25	1.45		-1.81	-1.00	Pass



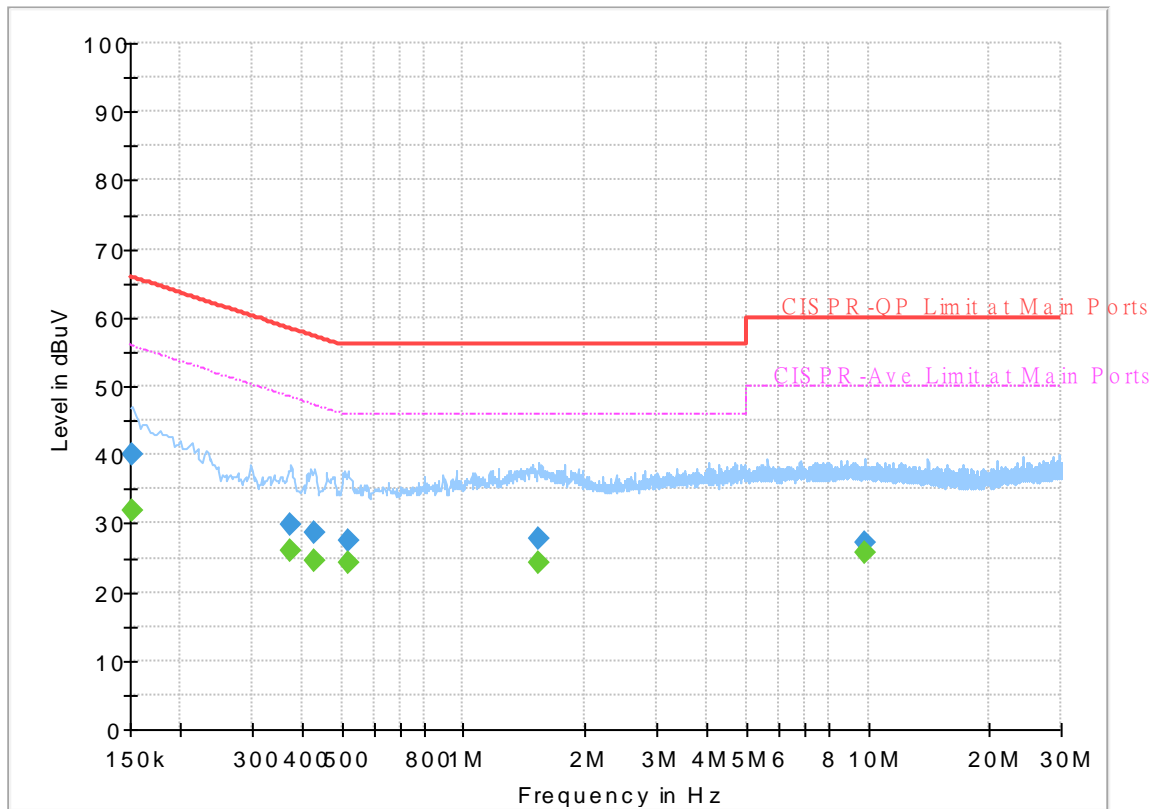
Appendix B. AC Conducted Emission Test Results

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

EUT Information

Report NO : 1O2843-05
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



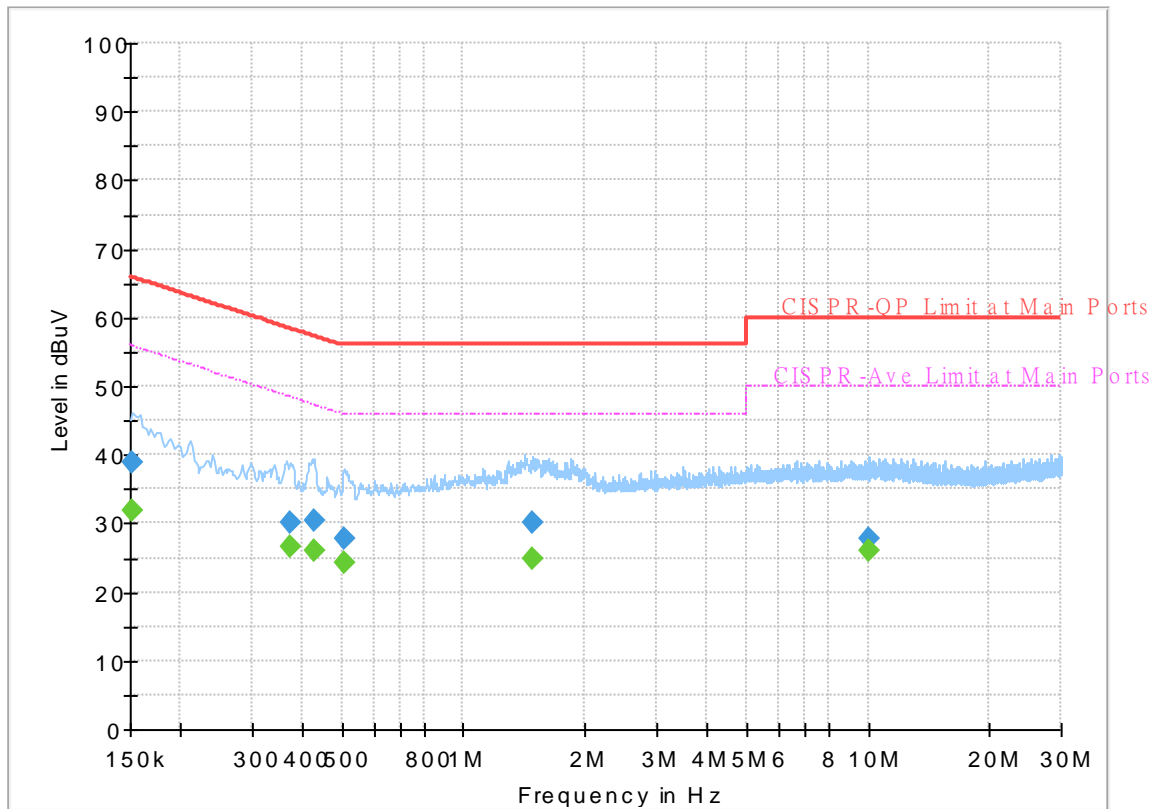
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	31.73	55.88	24.15	L1	OFF	19.6
0.152250	39.99	---	65.88	25.89	L1	OFF	19.6
0.375000	---	26.04	48.39	22.35	L1	OFF	19.6
0.375000	29.72	---	58.39	28.67	L1	OFF	19.6
0.429000	---	24.66	47.27	22.61	L1	OFF	19.6
0.429000	28.62	---	57.27	28.65	L1	OFF	19.6
0.516750	---	24.27	46.00	21.73	L1	OFF	19.6
0.516750	27.54	---	56.00	28.46	L1	OFF	19.6
1.536000	---	24.17	46.00	21.83	L1	OFF	19.7
1.536000	27.78	---	56.00	28.22	L1	OFF	19.7
9.840750	---	25.71	50.00	24.29	L1	OFF	20.1
9.840750	27.26	---	60.00	32.74	L1	OFF	20.1

EUT Information

Report NO : 1O2843-05
 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	---	31.93	55.88	23.95	N	OFF	19.6
0.152250	39.03	---	65.88	26.85	N	OFF	19.6
0.372750	---	26.69	48.44	21.75	N	OFF	19.6
0.372750	30.24	---	58.44	28.20	N	OFF	19.6
0.426750	---	25.91	47.32	21.41	N	OFF	19.6
0.426750	30.45	---	57.32	26.87	N	OFF	19.6
0.507750	---	24.27	46.00	21.73	N	OFF	19.6
0.507750	27.73	---	56.00	28.27	N	OFF	19.6
1.484250	---	24.72	46.00	21.28	N	OFF	19.7
1.484250	29.97	---	56.00	26.03	N	OFF	19.7
10.059000	---	26.01	50.00	23.99	N	OFF	20.1
10.059000	27.66	---	60.00	32.34	N	OFF	20.1