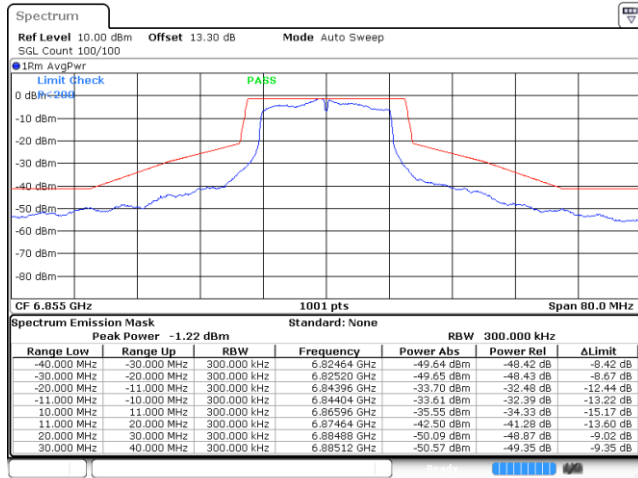


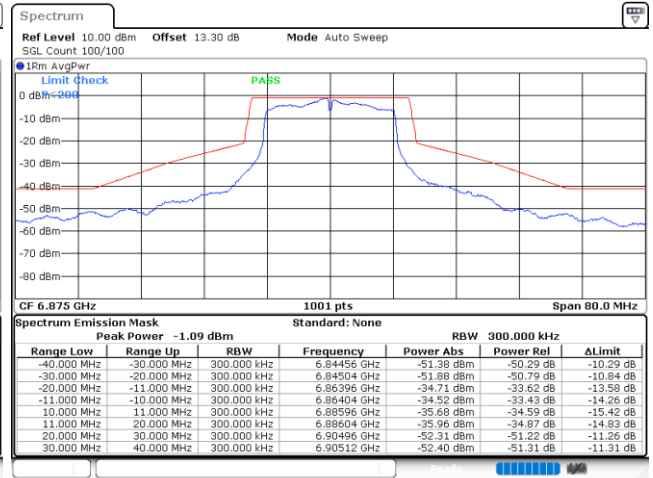


Plot on Channel 6855MHz



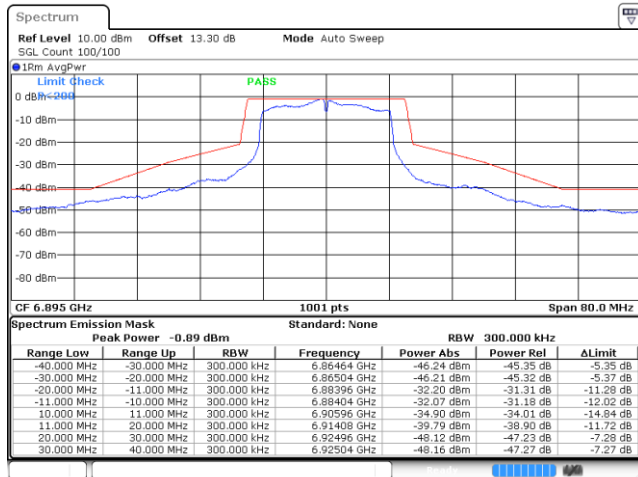
Date: 11 JUN 2022 19:50:17

Plot on Channel 6875MHz



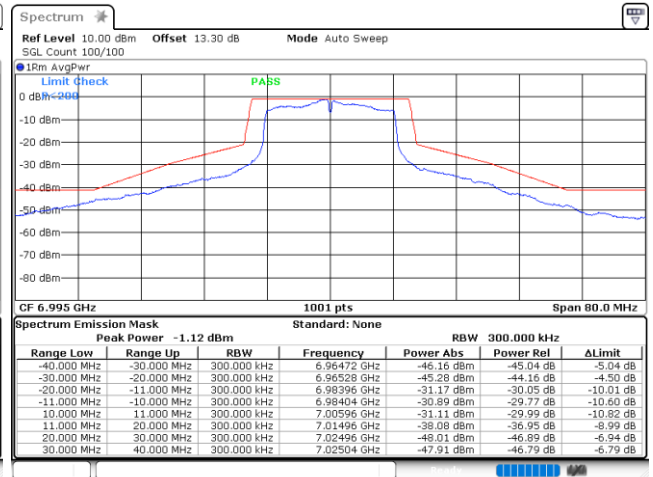
Date: 17 JUN 2022 01:46:49

Plot on Channel 6895MHz



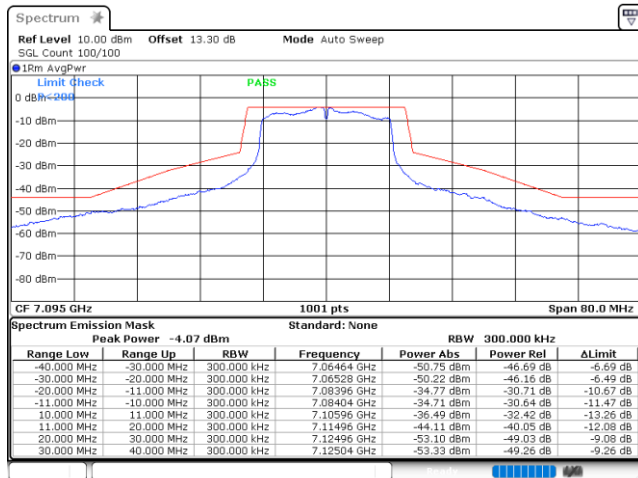
Date: 11 JUN 2022 19:56:50

Plot on Channel 6995MHz



Date: 17 JUN 2022 01:52:16

Plot on Channel 7095MHz

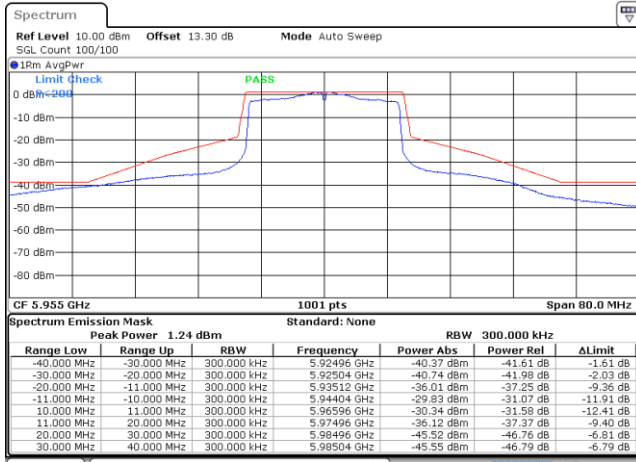


Date: 17 JUN 2022 01:59:31



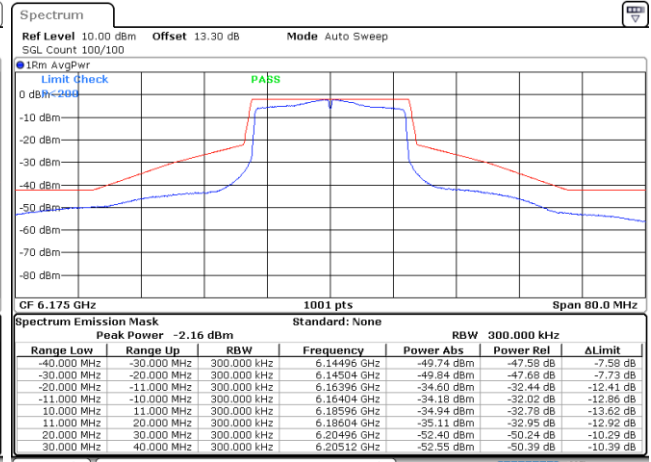
EUT Mode : 802.11ax HE20

Plot on Channel 5955MHz



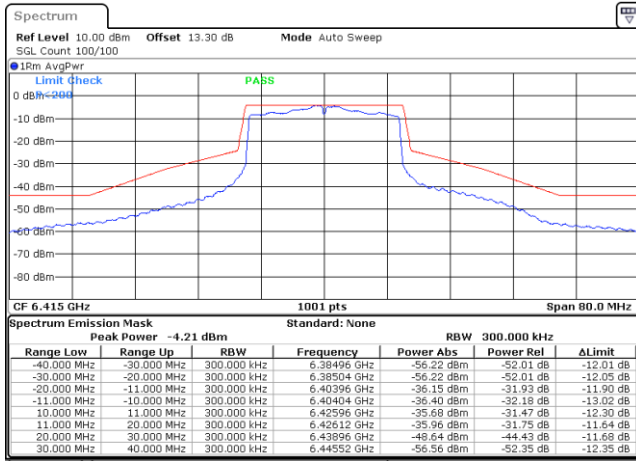
Date: 11 JUN 2022 10:54:49

Plot on Channel 6175MHz



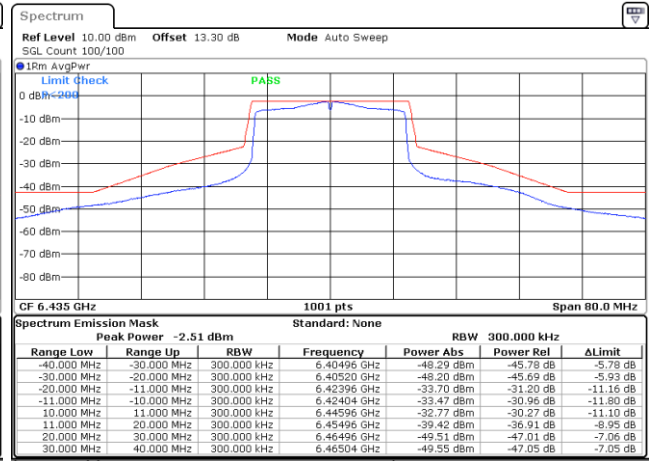
Date: 17 JUN 2022 02:18:34

Plot on Channel 6415MHz



Date: 17 JUN 2022 02:24:25

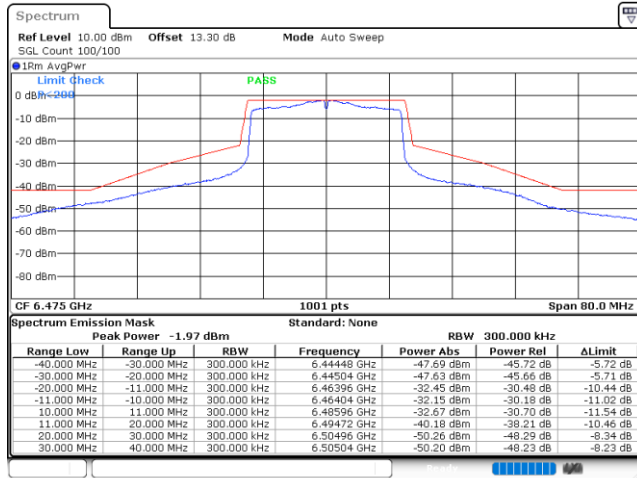
Plot on Channel 6435MHz



Date: 17 JUN 2022 02:29:11

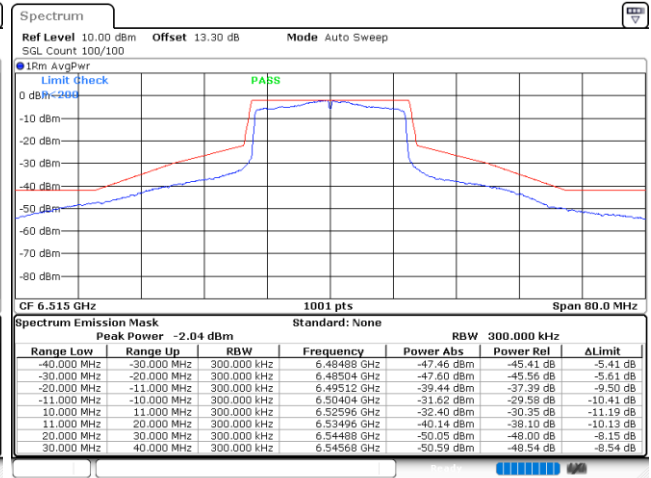


Plot on Channel 6475MHz



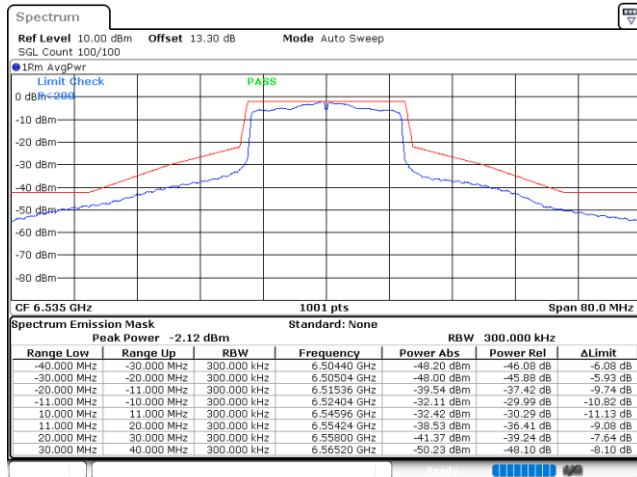
Date: 17 JUN 2022 02:32:08

Plot on Channel 6515MHz



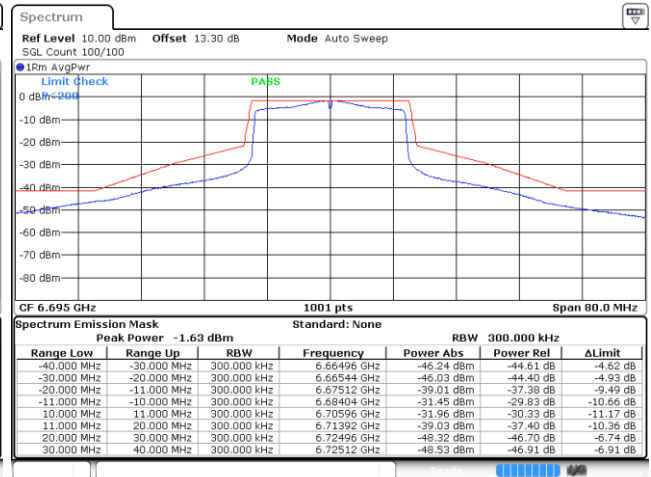
Date: 17 JUN 2022 02:36:28

Plot on Channel 6535MHz



Date: 17 JUN 2022 02:40:24

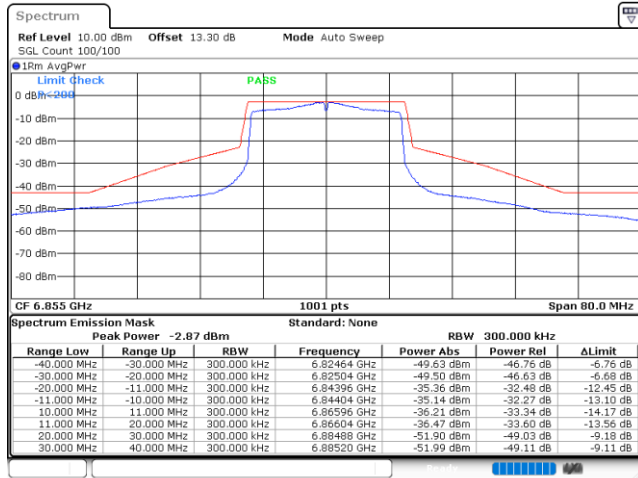
Plot on Channel 6695MHz



Date: 11 JUN 2022 11:48:47

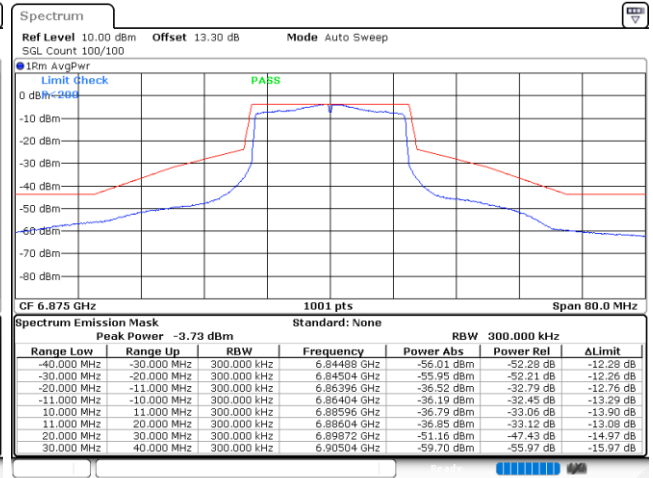


Plot on Channel 6855MHz



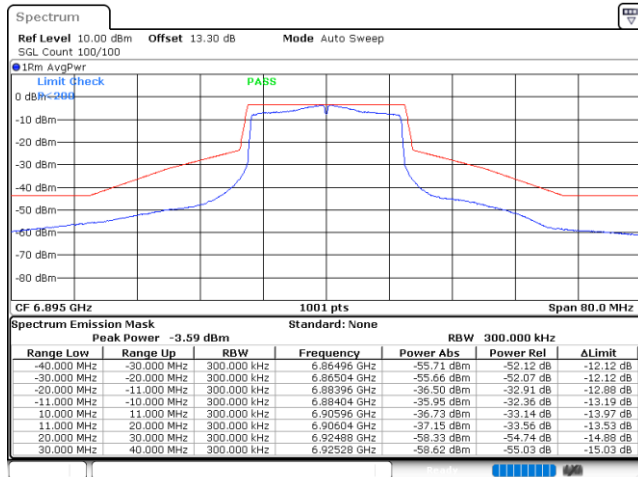
Date: 17 JUN.2022 02:44:39

Plot on Channel 6875MHz



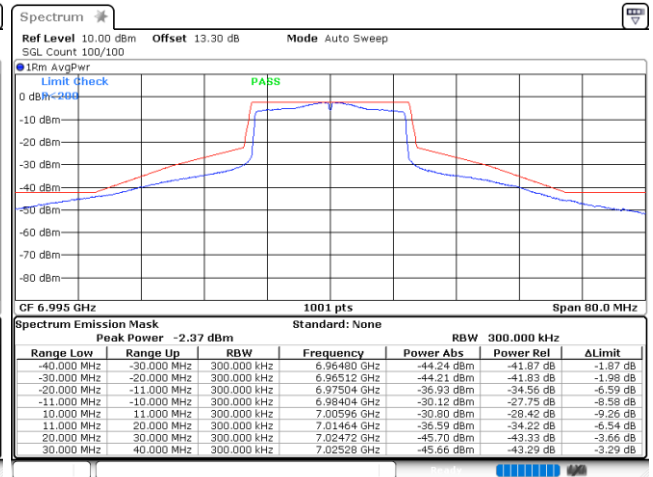
Date: 17 JUN.2022 02:57:10

Plot on Channel 6895MHz



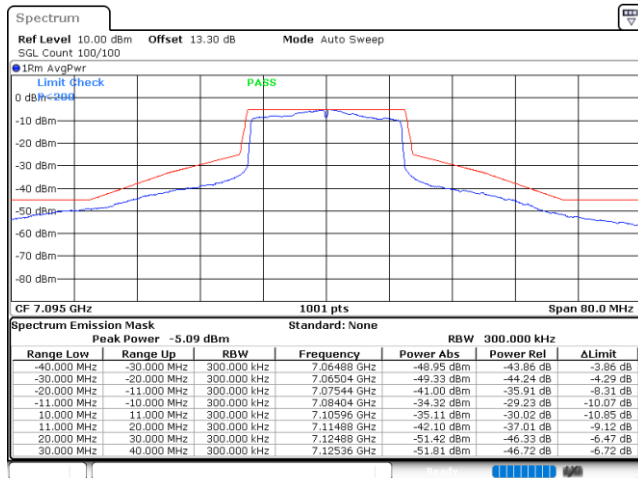
Date: 17 JUN.2022 03:01:38

Plot on Channel 6995MHz



Date: 17 JUN.2022 03:04:38

Plot on Channel 7095MHz

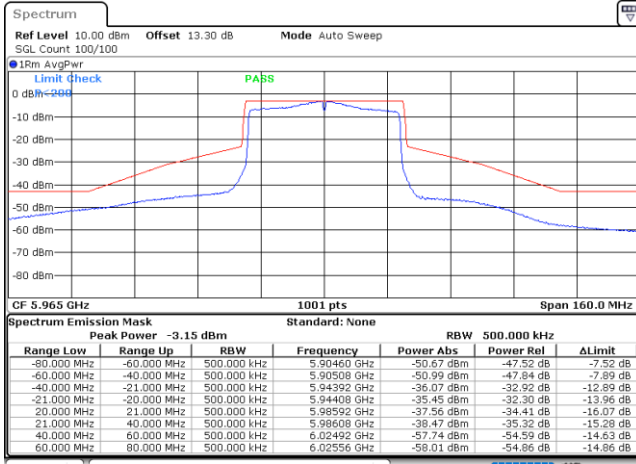


Date: 17 JUN.2022 03:10:20



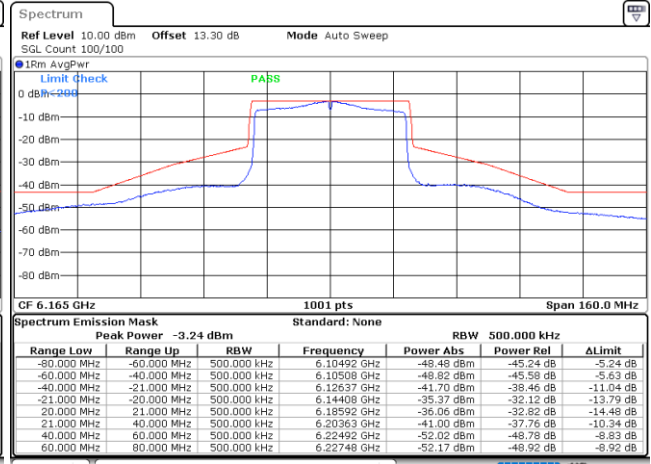
EUT Mode : 802.11ax HE40

Plot on Channel 5965MHz



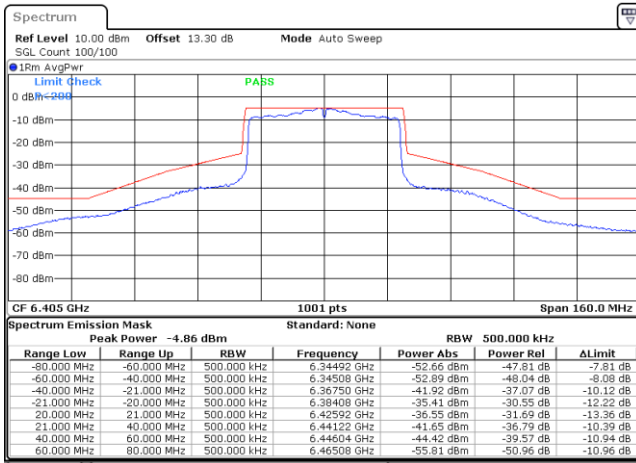
Date: 28 JUN.2022 17:24:04

Plot on Channel 6165MHz



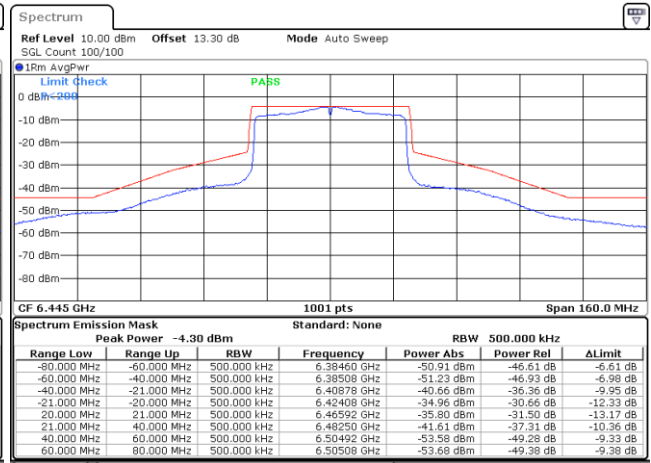
Date: 28 JUN.2022 17:26:14

Plot on Channel 6405MHz



Date: 28 JUN.2022 17:30:18

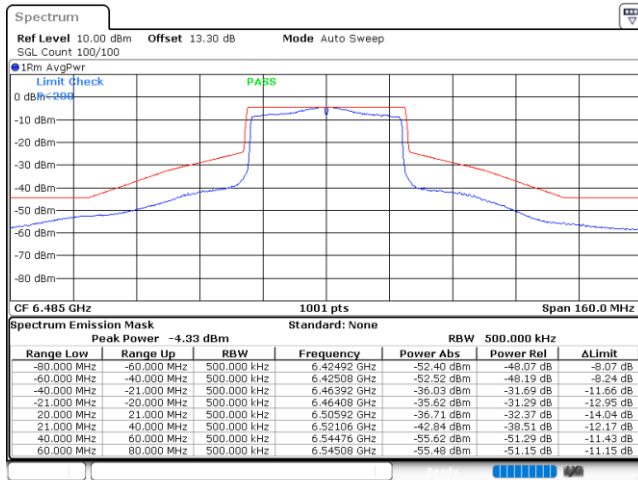
Plot on Channel 6445MHz



Date: 28 JUN.2022 17:32:02

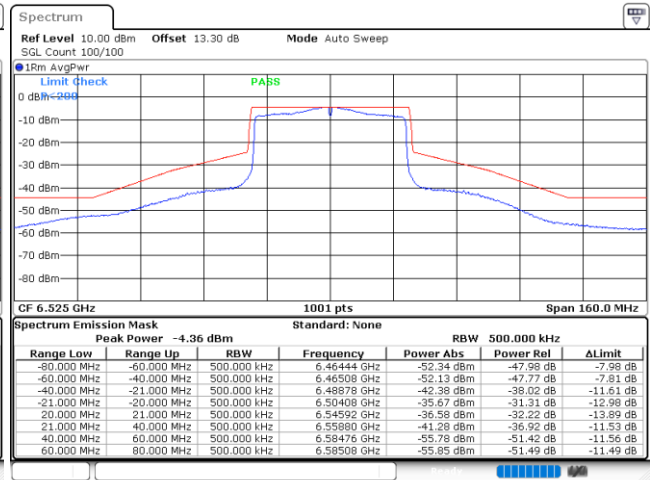


Plot on Channel 6485MHz



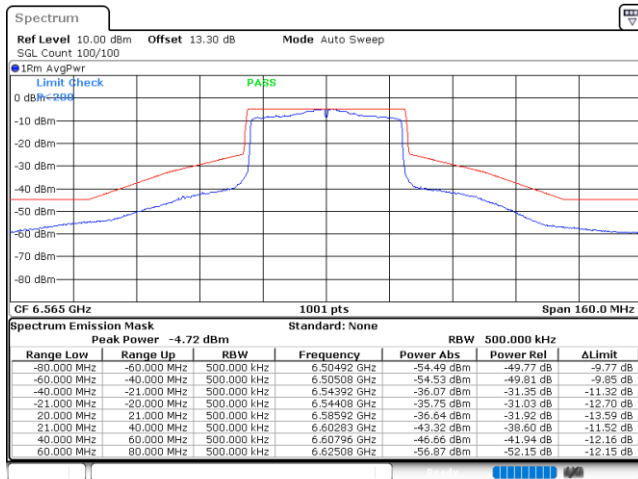
Date: 28 JUN.2022 17:35:30

Plot on Channel 6525MHz



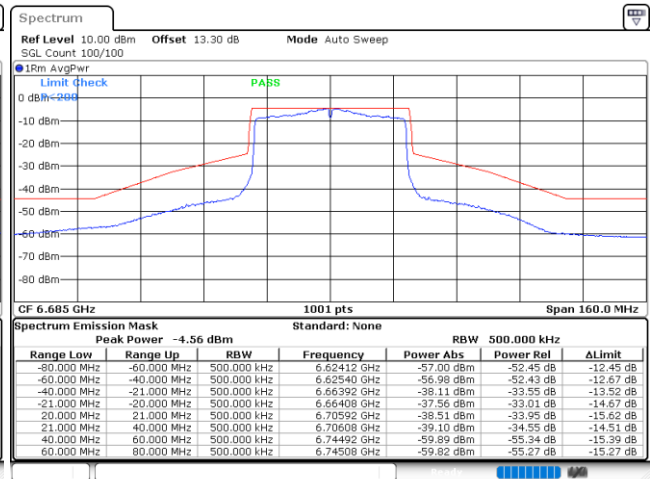
Date: 28 JUN.2022 17:36:43

Plot on Channel 6565MHz



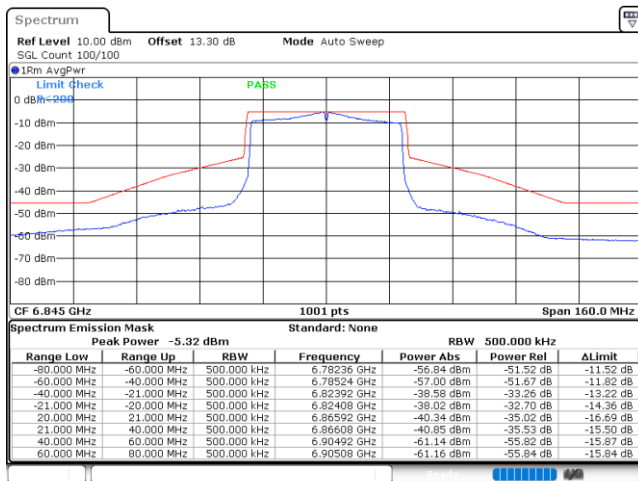
Date: 28 JUN.2022 17:40:27

Plot on Channel 6685MHz



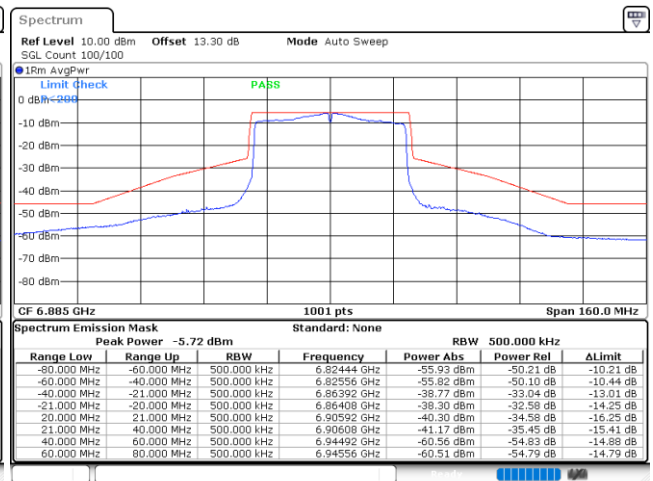
Date: 28 JUN.2022 17:41:22

Plot on Channel 6845MHz



Date: 28 JUN.2022 17:43:51

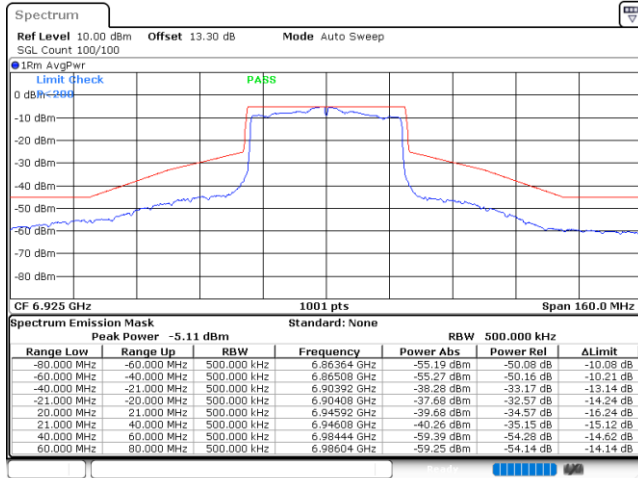
Plot on Channel 6885MHz



Date: 28 JUN.2022 17:44:45

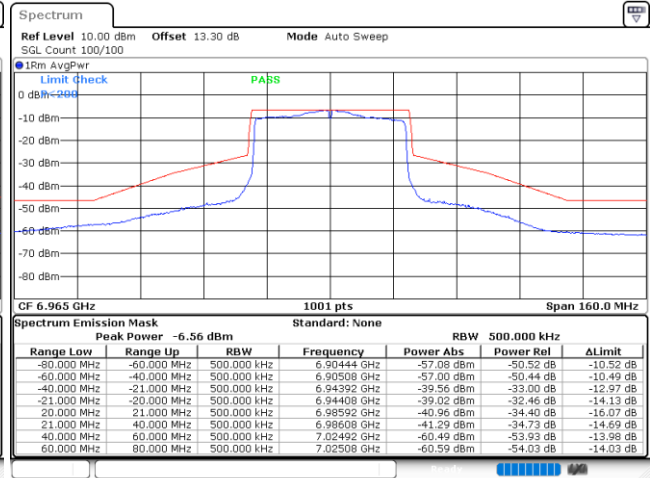


Plot on Channel 6925MHz



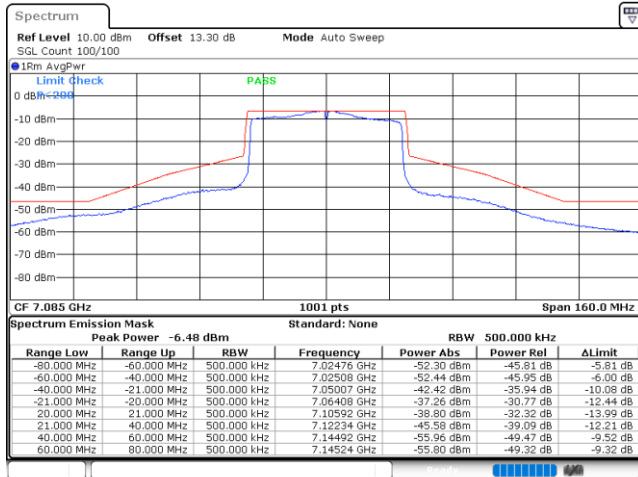
Date: 28 JUN.2022 17:47:05

Plot on Channel 6965MHz



Date: 28 JUN.2022 17:48:06

Plot on Channel 7085MHz

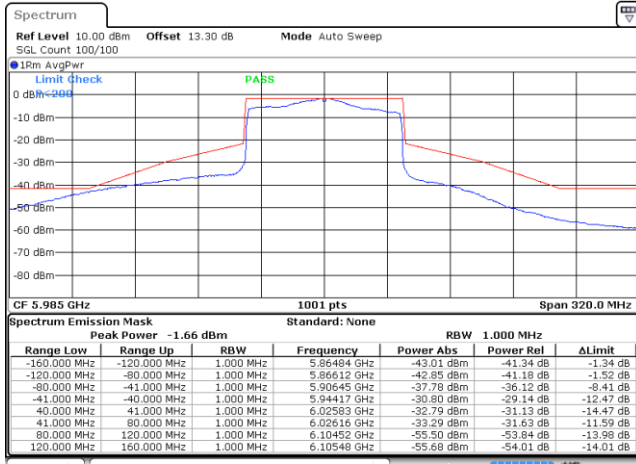


Date: 28 JUN.2022 17:50:36



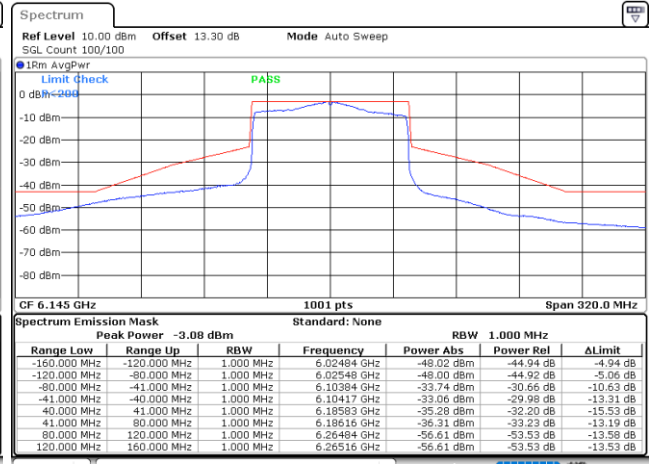
EUT Mode : 802.11ax HE80

Plot on Channel 5985MHz



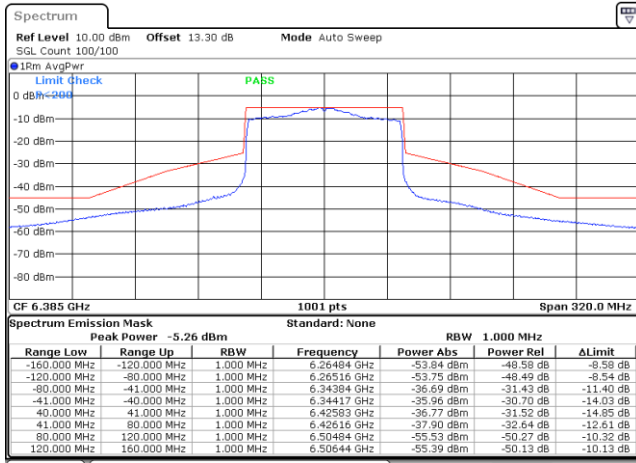
Date: 11 JUN 2022 15:29:01

Plot on Channel 6145MHz



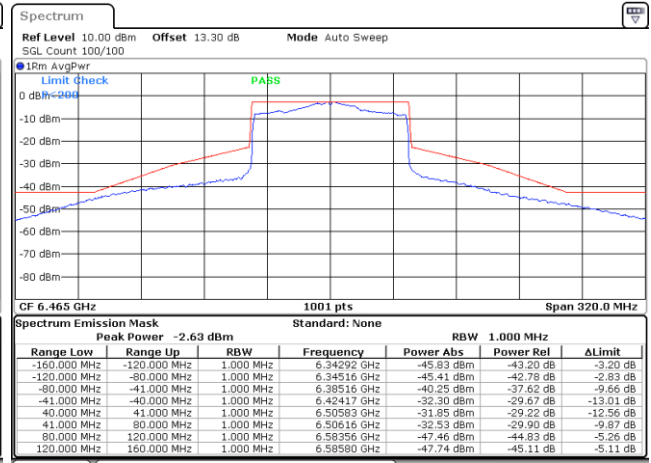
Date: 17 JUN 2022 05:12:30

Plot on Channel 6385MHz



Date: 17 JUN 2022 05:24:17

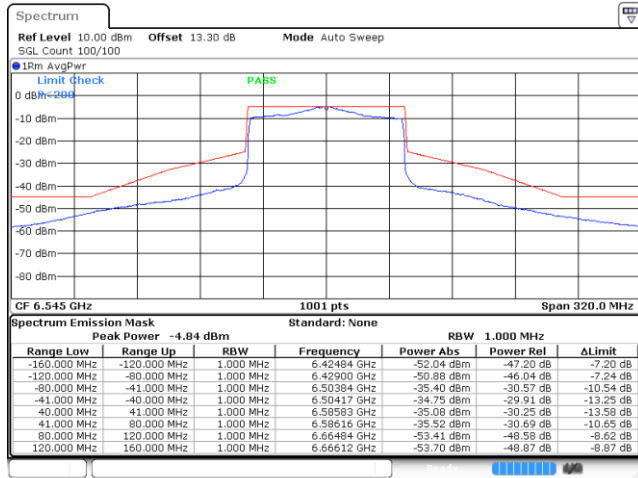
Plot on Channel 6465MHz



Date: 17 JUN 2022 05:15:08

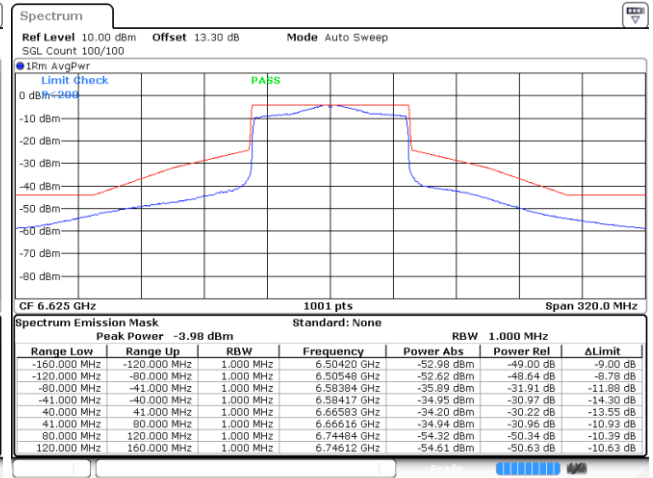


Plot on Channel 6545MHz



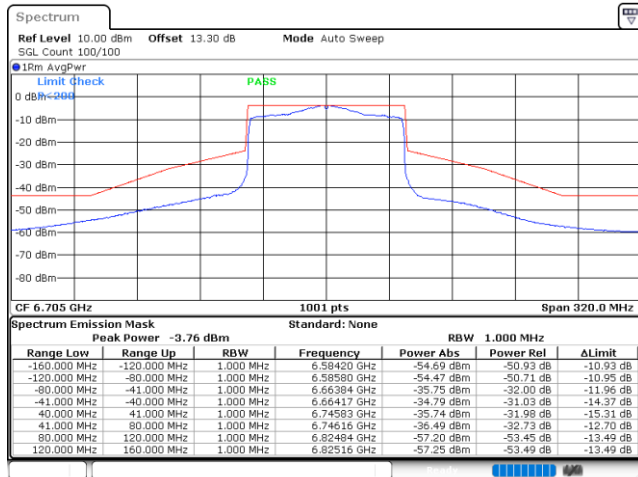
Date: 11 JUN 2022 15:52:29

Plot on Channel 6625MHz



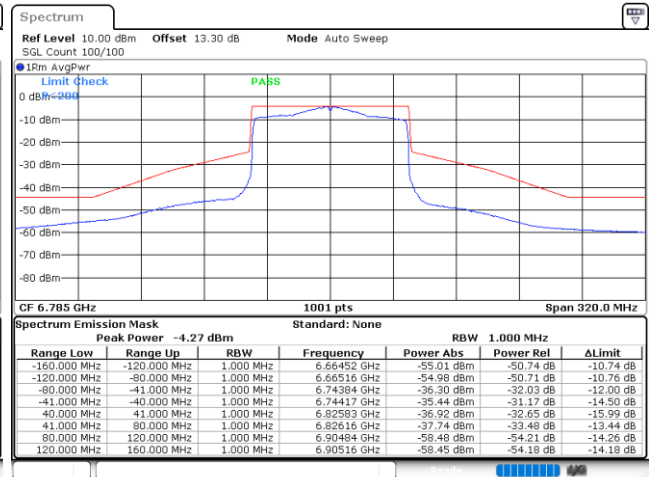
Date: 11 JUN 2022 15:53:42

Plot on Channel 6705MHz



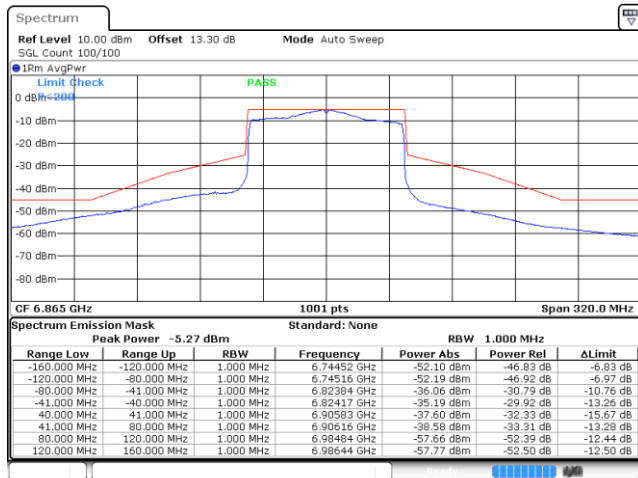
Date: 17 JUN 2022 06:01:27

Plot on Channel 6785MHz



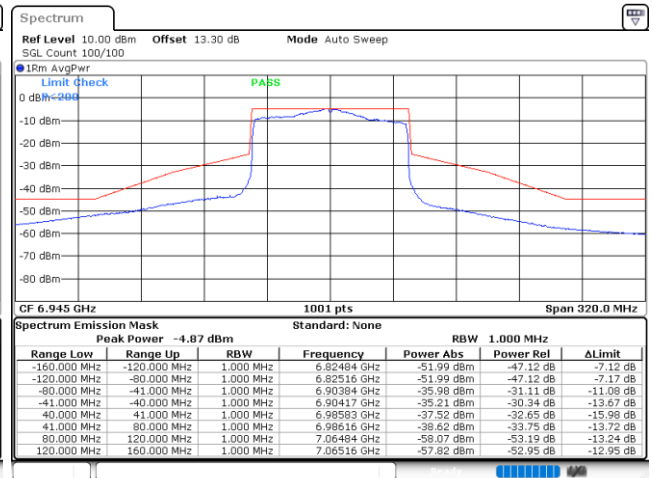
Date: 17 JUN 2022 06:06:14

Plot on Channel 6865MHz



Date: 11 JUN 2022 16:07:27

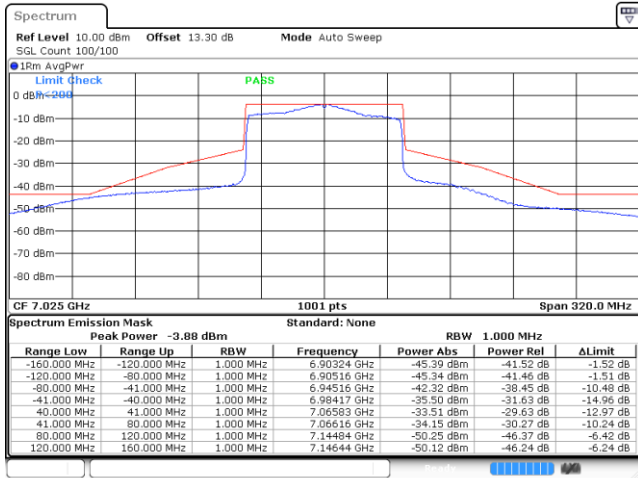
Plot on Channel 6945MHz



Date: 17 JUN 2022 06:10:28



Plot on Channel 7025MHz

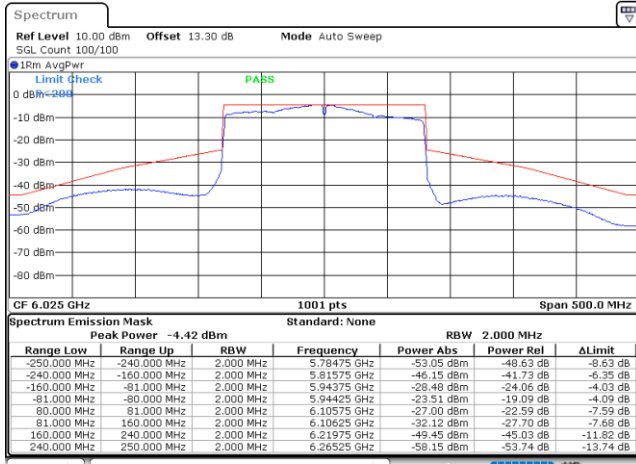


Date: 11 JUN 2022 16:16:10



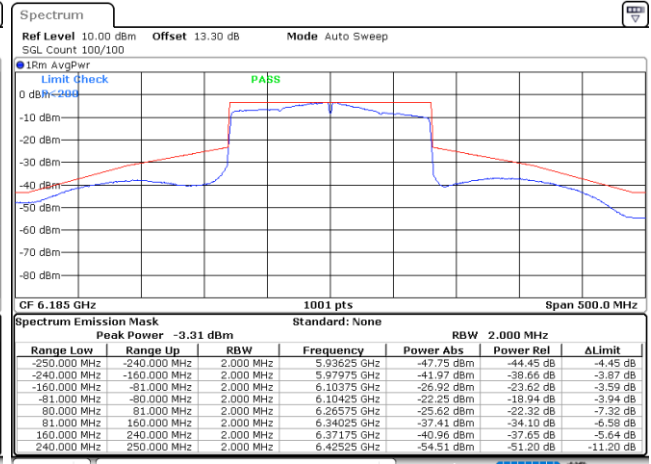
EUT Mode : 802.11ax HE160

Plot on Channel 6025MHz



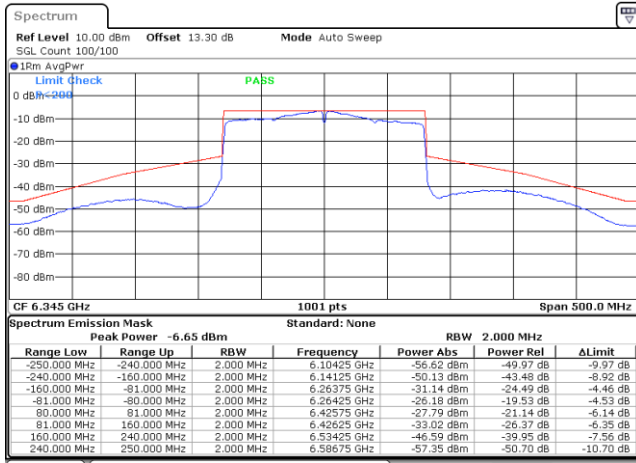
Date: 17. JUN. 2022 06:16:57

Plot on Channel 6185MHz



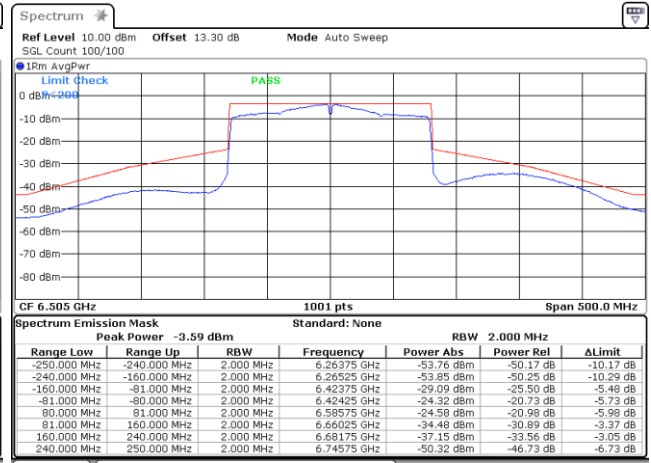
Date: 17. JUN. 2022 06:21:31

Plot on Channel 6345MHz



Date: 17. JUN. 2022 06:25:40

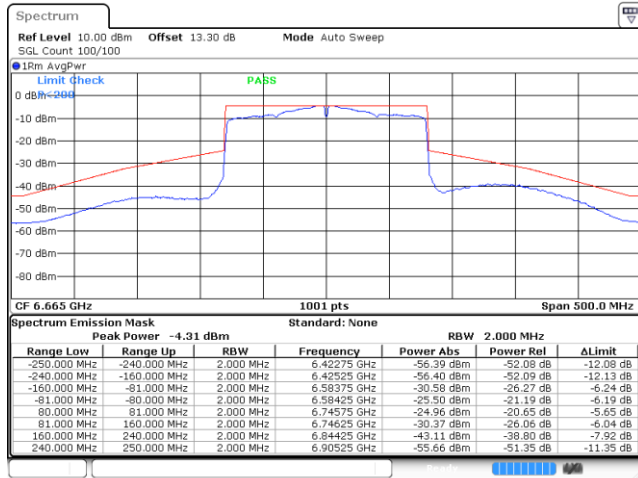
Plot on Channel 6505MHz



Date: 17. JUN. 2022 06:28:02

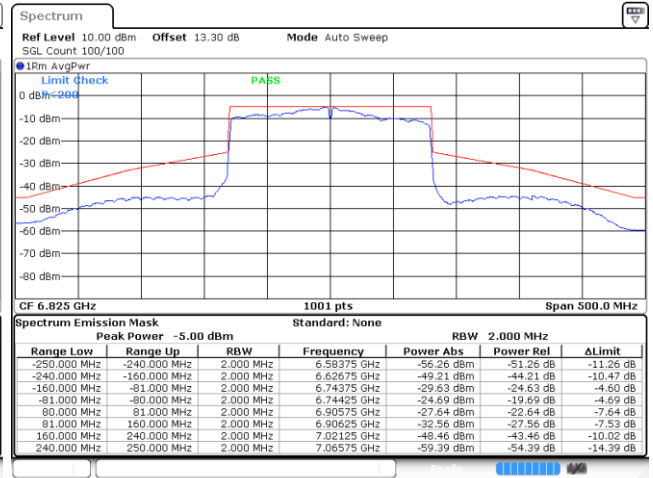


Plot on Channel 6665MHz



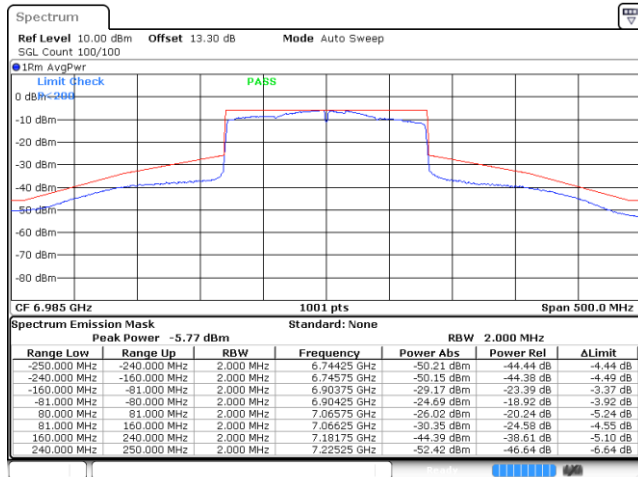
Date: 11 JUN 2022 16:50:18

Plot on Channel 6825MHz



Date: 11 JUN 2022 16:57:22

Plot on Channel 6985MHz



Date: 11 JUN 2022 16:59:24

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

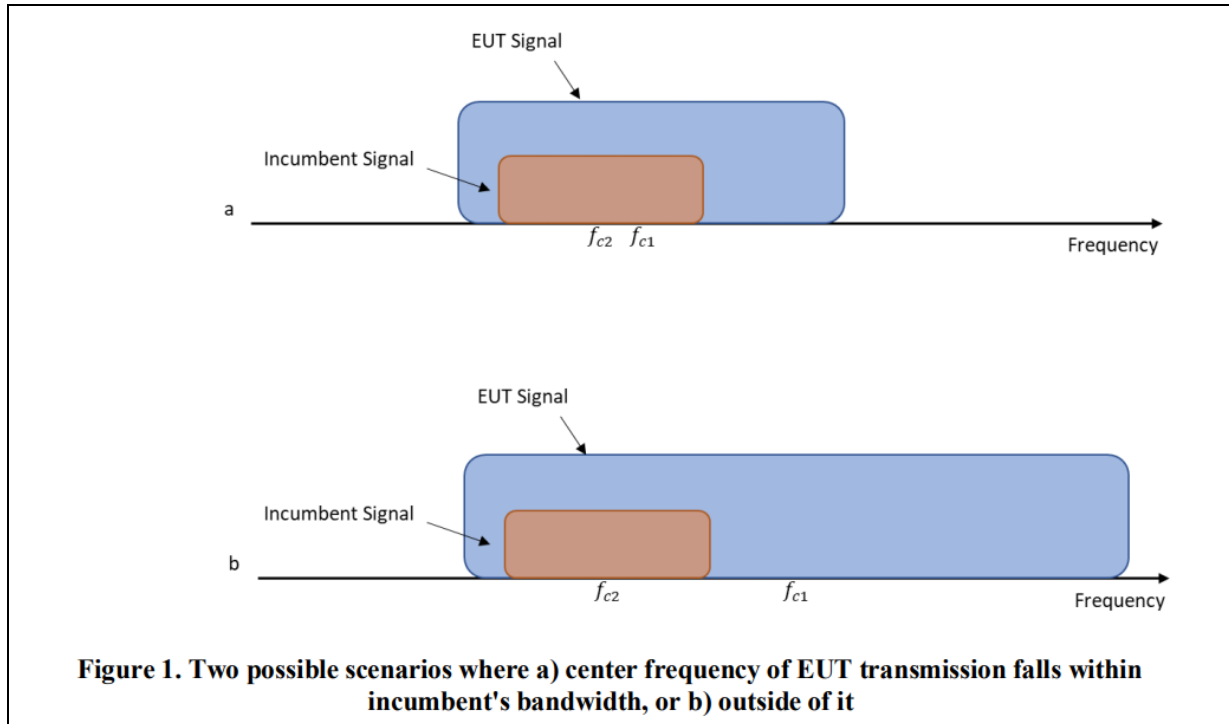
where:

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

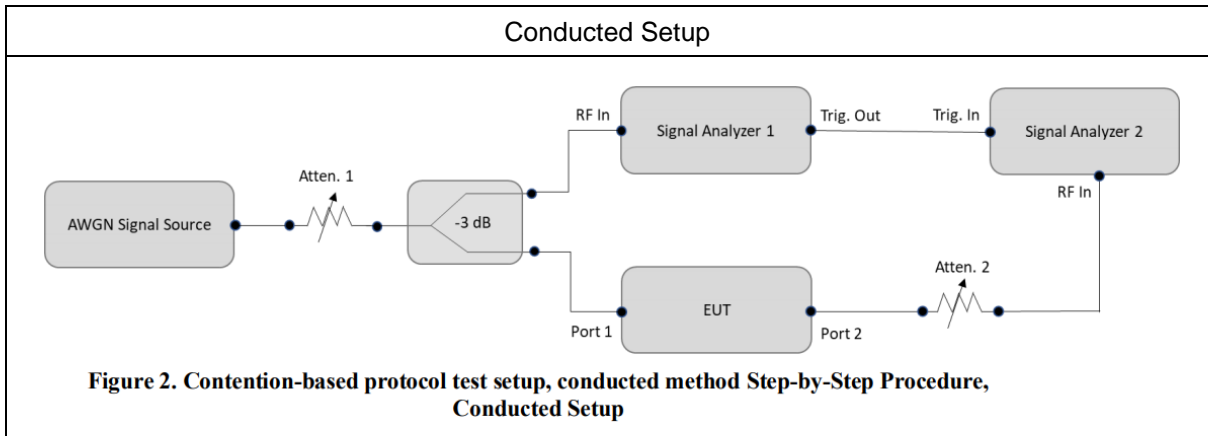
See list of measuring equipment of this test report.

3.5.3 Test Procedures

Refer to KDB 987594 D02 v01v01.

1. To ensure EUT reliably detects an incumbent signal in both scenarios shown in Figure 1, the detection threshold test may be repeated more than once with the incumbent signal (having center frequency f_{c2}) tuned to different center frequencies within the UT transmission bandwidth. The criteria specified in Table 1 determines how many times the detection threshold test must be performed
2. 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.
3. Monitor the signal analyzer 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.
4. (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.
5. 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 2, choose a different center frequency for the AWGN signal and repeat the process.

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	-80.66	100	-62	-74.66	12.66
				Result: Stop Transmission				
				-81.67	<90	-62	-75.67	13.67
				Result: Minimal Operation				
				-82.66	=0	-62	-76.66	14.66
				Result: Normal Operation				
	6185	160	6185	-80.48	100	-62	-74.48	12.48
				Result: Stop Transmission				
				-81.48	<90	-62	-75.48	13.48
				Result: Minimal Operation				
				-82.48	=0	-62	-76.48	14.48
				Result: Normal Operation				
	6260	160	6260	-80.49	100	-62	-74.49	12.49
				Result: Stop Transmission				
				-81.49	<90	-62	-75.49	13.49
				Result: Minimal Operation				
				-82.49	=0	-62	-76.49	14.49
				Result: Normal Operation				
6260	160	6260	-77.91	100	-62	-71.91	9.91	
			Result: Stop Transmission					
			-78.91	<90	-62	-72.91	10.91	
			Result: Minimal Operation					
			-79.91	=0	-62	-73.91	11.91	
			Result: Normal Operation					

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (-6.0 dBi).

Note 2: Pass Loss is negligible. (0 dB)

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	-80.07	100	-62	-73.87	11.87		
				Result: Stop Transmission						
				-81.07	<90	-62	-74.87	12.87		
				Result: Minimal Operation						
				-82.07	=0	-62	-75.87	13.87		
				Result: Normal Operation						
	6505	160	6430	-79.93	100	-62	-73.73	11.73		
				Result: Stop Transmission						
				-80.93	<90	-62	-74.73	12.73		
				Result: Minimal Operation						
				-81.93	=0	-62	-75.73	13.73		
				Result: Normal Operation						
			6505	160	6505	-79.31	100	-62	-73.11	11.11
						Result: Stop Transmission				
						-80.31	<90	-62	-74.11	12.11
						Result: Minimal Operation				
						-81.31	=0	-62	-75.11	13.11
						Result: Normal Operation				
	6580	160	6580	-75.18	100	-62	-68.98	6.98		
				Result: Stop Transmission						
				-76.18	<90	-62	-69.98	7.98		
				Result: Minimal Operation						
				-77.18	=0	-62	-70.98	8.98		
				Result: Normal Operation						

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (-6.2 dBi).

Note 2: Pass Loss is negligible. (0 dB)

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	-81.06	100	-62	-74.96	12.96	
				Result: Stop Transmission					
				-82.06	<90	-62	-75.96	13.96	
				Result: Minimal Operation					
				-83.06	=0	-62	-76.96	14.96	
				Result: Normal Operation					
	6665	160	6590	-78.62	100	-62	-72.52	10.52	
				Result: Stop Transmission					
				-79.62	<90	-62	-73.52	11.52	
				Result: Minimal Operation					
				-80.62	=0	-62	-74.52	12.52	
				Result: Normal Operation					
			6740	6665	-80.49	100	-62	-74.39	12.39
					Result: Stop Transmission				
					-81.49	<90	-62	-75.39	13.39
					Result: Minimal Operation				
					-82.49	=0	-62	-76.39	14.39
					Result: Normal Operation				
6740	6665	-76.59	100	-62	-70.49	8.49			
		Result: Stop Transmission							
		-77.59	<90	-62	-71.49	9.49			
Result: Minimal Operation									
-78.59	=0	-62	-72.49	10.49					
Result: Normal Operation									

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (-6.1 dBi).

Note 2: Pass Loss is negligible. (0 dB)

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	-73.89	100	-62	-66.89	4.89	
				Result: Stop Transmission					
				-74.89	<90	-62	-67.89	5.89	
				Result: Minimal Operation					
				-75.89	=0	-62	-68.89	6.89	
				Result: Normal Operation					
	6985	160	6910	-74.53	100	-62	-67.53	5.53	
				Result: Stop Transmission					
				-75.53	<90	-62	-68.53	6.53	
				Result: Minimal Operation					
				-76.53	=0	-62	-69.53	7.53	
				Result: Normal Operation					
			7060	7060	-74.86	100	-62	-67.86	5.86
					Result: Stop Transmission				
					-75.86	<90	-62	-68.86	6.86
					Result: Minimal Operation				
					-76.86	=0	-62	-69.86	7.86
					Result: Normal Operation				
7060	7060	-75.15	100	-62	-68.15	6.15			
		Result: Stop Transmission							
		-76.15	<90	-62	-69.15	7.15			
Result: Minimal Operation									
-77.15	=0	-62	-70.15	8.15					
Result: Normal Operation									

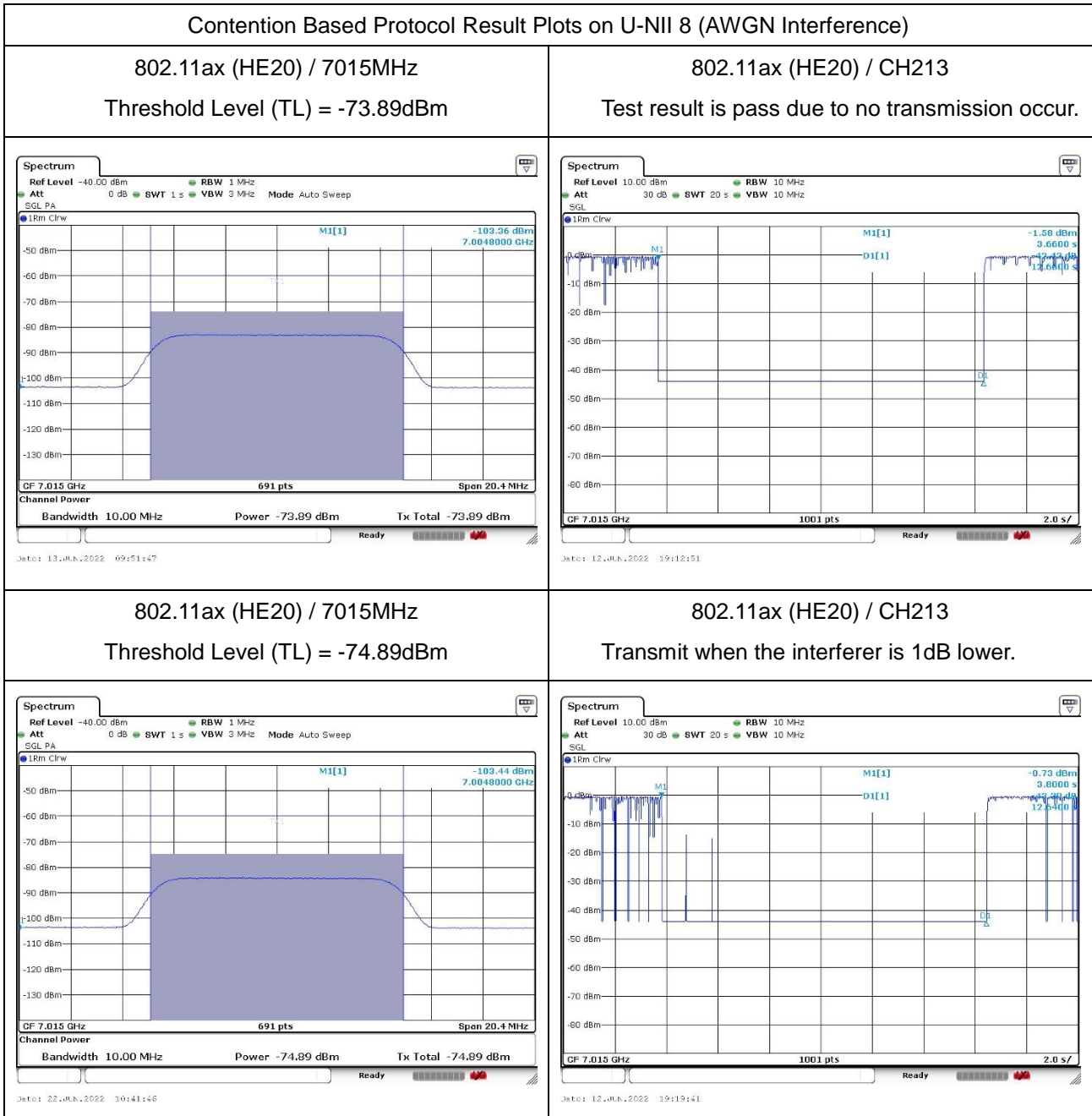
Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (-7.0 dBi).

Note 2: Pass Loss is negligible. (0 dB)

Note 3: Margin = Regulated Threshold level - Adjusted Power



3.5.7 Worst Case Plots of Contention Based Protocol



Remark: M1: Injection of AWGN signal, D1: Removal of AWGN signal

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)	68.2
- 7 (Peak)	88.2

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

See list of measuring equipment of this test report.

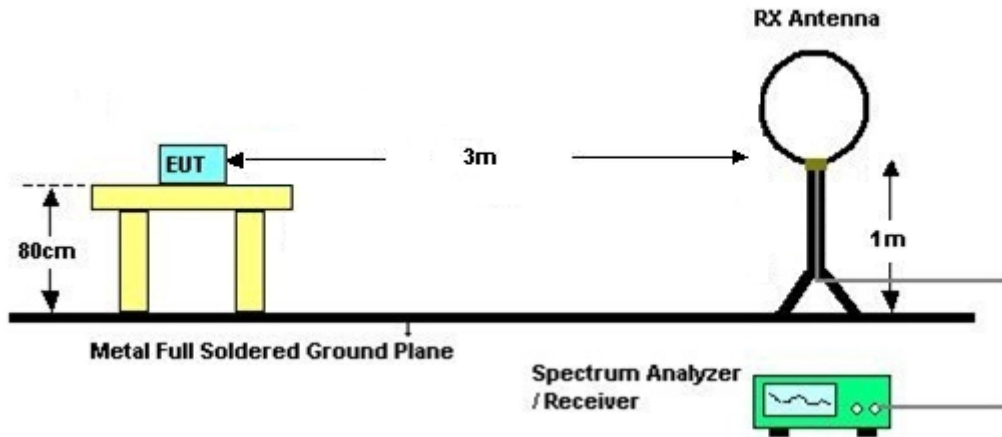


3.6.3 Test Procedures

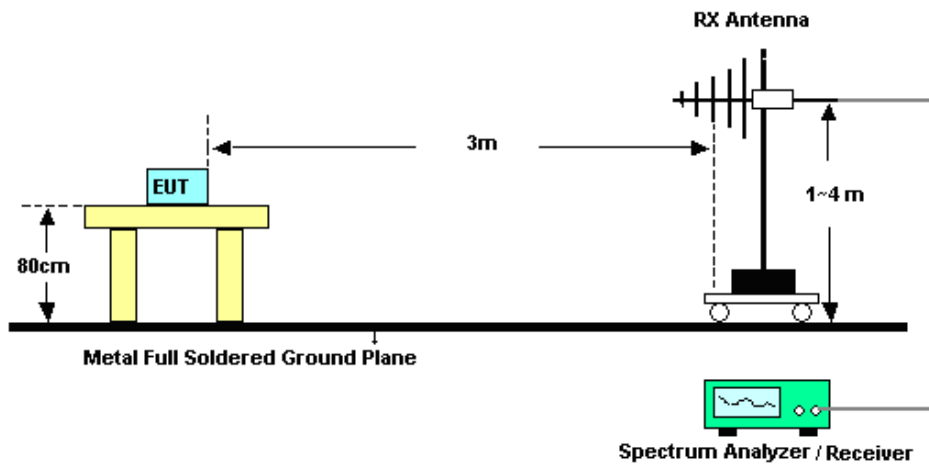
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW ≥ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, 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 was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was 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 was 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. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.6.4 Test Setup

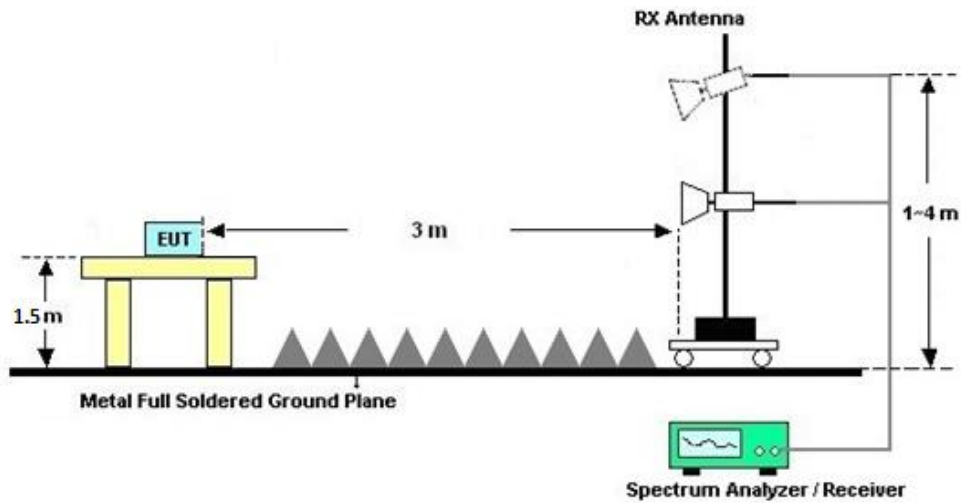
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was 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&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&D.



3.7 AC Conducted Emission Measurement

3.7.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

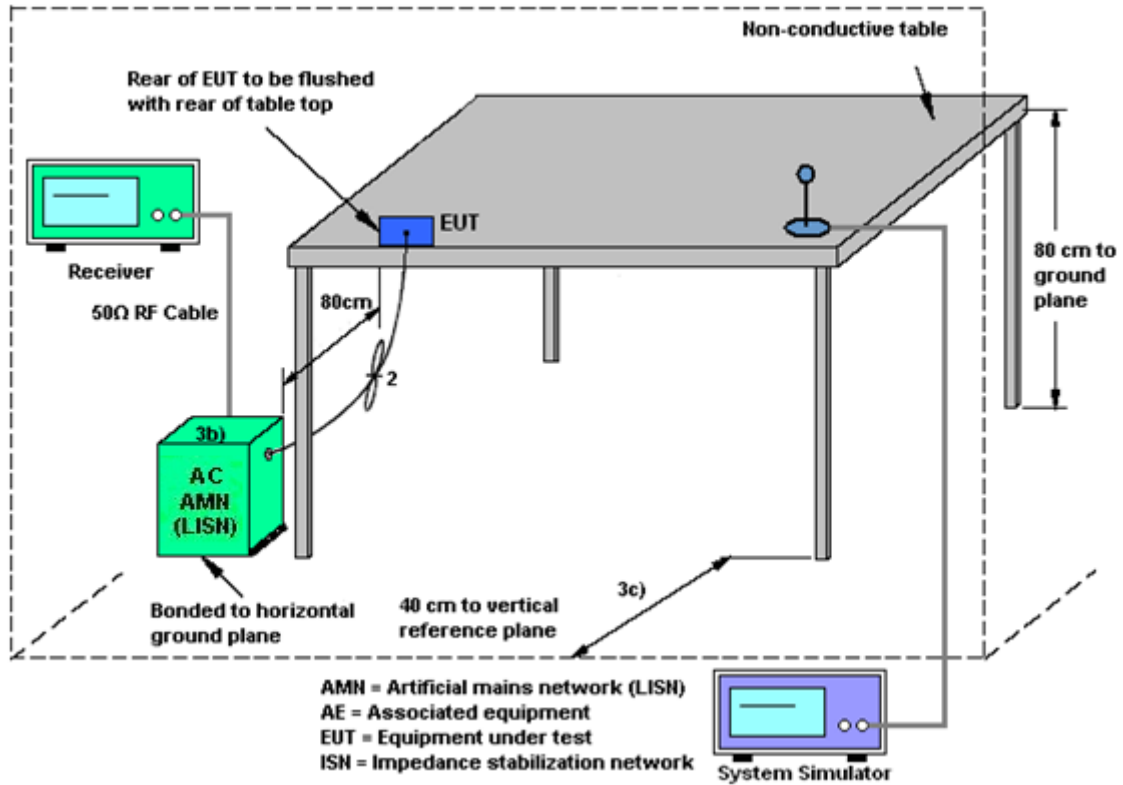
3.7.2 Measuring Instruments

See list of measuring equipment of this test report.

3.7.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was 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 sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.7.4 Test Setup



3.7.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.8 Antenna Requirements

3.8.1 Standard Applicable

§15.203: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used. The EUT complies with the requirement of 15.203.

3.8.3 Antenna Gain

<STBC Modes>

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For completely uncorrelated transmissions, directional gain is calculated as:

Directional gain = $G_{ANT\ MAX}$ (Ant.1 Gain, Ant.2 Gain), as following table

<STBC Modes>				
			DG for Power (dBi)	DG for PSD (dBi)
	Ant. 1 (dBi)	Ant. 2 (dBi)		
U-NII-5	-5.50	-6.00	-5.50	-5.50
U-NII-6	-5.20	-6.20	-5.20	-5.20
U-NII-7	-5.00	-6.10	-5.00	-5.00
U-NII-8	-6.00	-7.00	-6.00	-6.00

This device supports STBC mode, not support CDD (Cyclic Delay Diversity) mode which controlled by Qualcomm chipset software. This chipset support WIFI MIMO(2*2), and support STBC mode by manufacturer declared.

Space time block coding (STBC) transmits multiple copies of one data flow in wireless communication. STBC uses two antennas (Ant 1 and Ant 2) to produce multiple receive versions of data, improving data transmission reliability. Among these data copies, optimal copies are combined to provide most reliable data. This redundancy increases the chance of using one or more copies of received data to correctly decode the received data. STBC combines all the copies of received signals to produce the useful data.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 07, 2022	Jun. 11, 2022~Jun. 28, 2022	Apr. 06, 2023	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 28, 2021	Jun. 11, 2022~Jun. 28, 2022	Dec. 27, 2022	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 28, 2021	Jun. 11, 2022~Jun. 28, 2022	Dec. 27, 2022	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 06, 2022	Jun. 12, 2022~Jun. 24, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 06, 2022	Jun. 12, 2022~Jun. 24, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Jun. 12, 2022~Jun. 24, 2022	Jun. 21, 2022	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 21, 2022		Jun. 20, 2023	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 22, 2020	Jun. 12, 2022~Jun. 24, 2022	Jun. 21, 2022	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 21, 2022		Jun. 20, 2023	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2022	Jun. 12, 2022~Jun. 24, 2022	Apr. 07, 2023	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Oct. 22, 2021	Jun. 12, 2022~Jun. 24, 2022	Oct. 21, 2022	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 10, 2022	Jun. 12, 2022~Jun. 24, 2022	Apr. 09, 2023	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 22, 2021	Jun. 12, 2022~Jun. 24, 2022	Oct. 21, 2022	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 22, 2021	Jun. 12, 2022~Jun. 24, 2022	Oct. 21, 2022	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Jun. 12, 2022~Jun. 24, 2022	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 12, 2022~Jun. 24, 2022	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 12, 2022~Jun. 24, 2022	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Sep. 01, 2021	Jun. 10, 2022	Aug. 31, 2022	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sep. 01, 2021	Jun. 10, 2022	Aug. 31, 2022	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 29, 2021	Jun. 10, 2022	Oct. 28, 2022	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 14, 2021	Jun. 10, 2022	Jul. 13, 2022	Conduction (CO01-SZ)
Signal Analyzer	R&S	FSV7	101473	10Hz~7GHz	Dec. 28, 2021	Jun. 12, 2022~Jun. 22, 2022	Dec. 27, 2022	Conducted (DFS01-SZ)
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200424	9kHz~6GHz	Apr. 07, 2022	Jun. 12, 2022~Jun. 22, 2022	Apr. 08, 2023	Conducted (DFS01-SZ)
Shielding Box	Hongyitong	182-200	AGTE2013182200016	Shielded Effect: MAX 70dB	Oct. 25, 2021	Jun. 12, 2022~Jun. 22, 2022	Oct. 24, 2022	Conducted (DFS01-SZ)
Combiner	TOJOIN	PS-2AM-0460	SZE14011007	0.4~6GHz	Sep. 04, 2021	Jun. 12, 2022~Jun. 22, 2022	Sep. 03, 2022	Conducted (DFS01-SZ)

NCR: No Calibration Required



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.2dB
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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))	5.0dB
---	-------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9dB
---	-------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
---	-------

----- THE END -----



Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Chen Hong	Temperature:	21~25	°C
Test Date:	2022/6/11~2022/6/20	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

UNII-5 MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	5955	16.33	16.33	19.85	19.60	
11a	6Mbps	2	6175	16.33	16.33	20.40	20.10	
11a	6Mbps	2	6415	16.38	16.38	20.50	19.75	

TEST RESULTS DATA
EIRP Power Table

UNII-5 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	5955	0.48	0.48	8.57	11.53	13.31	-5.50		7.81	24.00	Pass
11a	6Mbps	2	6175	0.48	0.48	9.56	10.96	13.32	-5.50		7.82	24.00	Pass
11a	6Mbps	2	6415	0.48	0.48	11.20	9.00	13.25	-5.50		7.75	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

UNII-5 MIMO											
Mod.	Data Rate	N _{TX}	Freq. (MHz)	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	5955			3.28	-5.50	-2.23	-1.00	Pass	
11a	6Mbps	2	6175			3.16	-5.50	-2.35	-1.00	Pass	
11a	6Mbps	2	6415			3.28	-5.50	-2.22	-1.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

UNII-6 MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	6435	16.53	16.53	21.35	21.25	
11a	6Mbps	2	6475	16.33	16.38	20.20	19.95	
11a	6Mbps	2	6515	16.48	16.53	21.55	22.10	

TEST RESULTS DATA
EIRP Power Table

UNII-6 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	6435	0.48	0.48	10.40	9.85	13.14	-5.20		7.94	24.00	Pass
11a	6Mbps	2	6475	0.48	0.48	9.98	9.78	12.89	-5.20		7.69	24.00	Pass
11a	6Mbps	2	6515	0.48	0.48	10.38	9.49	12.97	-5.20		7.77	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

UNII-6 MIMO											
Mod.	Data Rate	N _{TX}	Freq. (MHz)	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	6435			3.07	-5.20	-2.14	-1.00	Pass	
11a	6Mbps	2	6475			2.84	-5.20	-2.37	-1.00	Pass	
11a	6Mbps	2	6515			3.01	-5.20	-2.19	-1.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

UNII-7 MIMO								
Mod.	Data Rate	N _{TX}	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	6535	16.28	16.38	19.75	19.75	
11a	6Mbps	2	6695	16.38	16.33	20.80	19.35	
11a	6Mbps	2	6855	16.38	16.33	20.25	19.20	

TEST RESULTS DATA
EIRP Power Table

UNII-7 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	6535	0.48	0.48	10.24	9.25	12.78	-5.00		7.78	24.00	Pass
11a	6Mbps	2	6695	0.48	0.48	9.93	9.75	12.85	-5.00		7.85	24.00	Pass
11a	6Mbps	2	6855	0.48	0.48	10.82	9.90	13.39	-5.00		8.39	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

UNII-7 MIMO											
Mod.	Data Rate	N _{TX}	Freq. (MHz)	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	6535			2.83	-5.00	-2.17	-1.00	Pass	
11a	6Mbps	2	6695			2.85	-5.00	-2.15	-1.00	Pass	
11a	6Mbps	2	6855			2.85	-5.00	-2.15	-1.00	Pass	

TEST RESULTS DATA
26dB EBW and 99% OBW

UNII-8 MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	6875	16.43	16.33	21.60	19.45	
11a	6Mbps	2	6895	16.48	16.33	22.15	19.65	
11a	6Mbps	2	6995	16.43	16.58	21.10	21.70	
11a	6Mbps	2	7095	16.28	16.33	19.95	19.60	

TEST RESULTS DATA
EIRP Power Table

UNII-8 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2			
11a	6Mbps	2	6875	0.48	0.48	11.99	10.89	14.48	-6.00		8.48	24.00	Pass
11a	6Mbps	2	6895	0.48	0.48	11.59	10.31	14.01	-6.00		8.01	24.00	Pass
11a	6Mbps	2	6995	0.48	0.48	11.06	10.48	13.79	-6.00		7.79	24.00	Pass
11a	6Mbps	2	7095	0.48	0.48	11.30	11.71	14.52	-6.00		8.52	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

UNII-8 MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	6875			3.97	-6.00	-2.03	-1.00	Pass	
11a	6Mbps	2	6895			3.57	-6.00	-2.43	-1.00	Pass	
11a	6Mbps	2	6995			3.41	-6.00	-2.59	-1.00	Pass	
11a	6Mbps	2	7095			3.27	-6.00	-2.73	-1.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

UNII-5 MIMO									
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	5955	Full	18.88	18.93	21.05	20.95	
HE20	MCS0	2	6175	Full	18.88	18.88	21.10	21.00	
HE20	MCS0	2	6415	Full	18.93	18.93	21.10	21.00	
HE40	MCS0	2	5965	Full	37.76	37.66	40.23	40.23	
HE40	MCS0	2	6165	Full	37.96	37.86	40.50	40.32	
HE40	MCS0	2	6405	Full	38.46	38.06	40.41	40.59	
HE80	MCS0	2	5985	Full	76.84	76.72	81.92	81.44	
HE80	MCS0	2	6145	Full	76.96	76.96	81.92	81.76	
HE80	MCS0	2	6385	Full	77.32	76.96	82.24	81.92	
HE160	MCS0	2	6025	Full	155.60	155.36	164.48	164.16	
HE160	MCS0	2	6185	Full	155.84	155.36	166.40	164.80	
HE160	MCS0	2	6345	Full	158.00	157.04	164.16	165.12	

TEST RESULTS DATA
EIRP Power Table

UNII-5 MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2			
HE20	MCS0	2	5955	Full	0.51	0.51	9.08	12.04	13.82	-5.50		8.32	24.00	Pass
HE20	MCS0	2	6175	Full	0.51	0.51	10.29	11.91	14.19	-5.50		8.69	24.00	Pass
HE20	MCS0	2	6415	Full	0.51	0.51	11.75	9.56	13.80	-5.50		8.30	24.00	Pass
HE40	MCS0	2	5965	Full	0.63	0.63	12.07	14.77	16.64	-5.50		11.14	24.00	Pass
HE40	MCS0	2	6165	Full	0.63	0.63	12.94	14.83	17.00	-5.50		11.50	24.00	Pass
HE40	MCS0	2	6405	Full	0.63	0.63	13.49	12.44	16.01	-5.50		10.51	24.00	Pass
HE80	MCS0	2	5985	Full	0.64	0.64	12.71	15.14	17.11	-5.50		11.61	24.00	Pass
HE80	MCS0	2	6145	Full	0.64	0.64	11.27	12.74	15.08	-5.50		9.58	24.00	Pass
HE80	MCS0	2	6385	Full	0.64	0.64	12.42	10.64	14.63	-5.50		9.13	24.00	Pass
HE160	MCS0	2	6025	Full	0.64	0.64	10.52	11.71	14.17	-5.50		8.67	24.00	Pass
HE160	MCS0	2	6185	Full	0.64	0.64	11.27	12.75	15.09	-5.50		9.59	24.00	Pass
HE160	MCS0	2	6345	Full	0.64	0.64	11.84	9.52	13.85	-5.50		8.35	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

UNII-5 MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2			
HE20	MCS0	2	5955	Full	0.51	0.51	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM	-1.00	Pass
HE20	MCS0	2	6175	Full	0.51	0.51			3.17	-5.50		-2.33	-1.00	Pass
HE20	MCS0	2	6415	Full	0.51	0.51			3.16	-5.50		-2.35	-1.00	Pass
HE40	MCS0	2	5965	Full	0.63	0.63			3.26	-5.50		-2.24	-1.00	Pass
HE40	MCS0	2	6165	Full	0.63	0.63			3.00	-5.50		-2.50	-1.00	Pass
HE40	MCS0	2	6405	Full	0.63	0.63			3.09	-5.50		-2.41	-1.00	Pass
HE80	MCS0	2	5985	Full	0.64	0.64			0.85	-5.50		-4.65	-1.00	Pass
HE80	MCS0	2	6145	Full	0.64	0.64			-0.16	-5.50		-5.66	-1.00	Pass
HE80	MCS0	2	6385	Full	0.64	0.64			-0.70	-5.50		-6.20	-1.00	Pass
HE160	MCS0	2	6025	Full	0.64	0.64			-4.21	-5.50		-9.71	-1.00	Pass
HE160	MCS0	2	6185	Full	0.64	0.64			-3.37	-5.50		-8.87	-1.00	Pass
HE160	MCS0	2	6345	Full	0.64	0.64			-4.58	-5.50		-10.08	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

UNII-6 MIMO									
Mod.	Data Rate	N _{TX}	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	6435	Full	18.93	18.93	21.30	21.30	
HE20	MCS0	2	6475	Full	18.93	18.93	21.10	21.90	
HE20	MCS0	2	6515	Full	18.93	18.93	21.55	21.40	
HE40	MCS0	2	6445	Full	37.86	37.86	40.59	40.68	
HE40	MCS0	2	6485	Full	37.76	37.76	40.50	40.32	
HE40	MCS0	2	6525	Full	37.96	37.96	40.95	40.59	
HE80	MCS0	2	6465	Full	76.84	76.84	81.92	85.44	
HE80	MCS0	2	6545	Full	77.08	76.96	82.40	82.24	
HE160	MCS0	2	6505	Full	155.84	155.60	165.75	164.48	

TEST RESULTS DATA
EIRP Power Table

UNII-6 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2			
HE20	MCS0	2	097	6435	Full	0.51	0.51	10.90	10.34	13.64	-5.20	8.44	24.00	Pass	
HE20	MCS0	2	105	6475	Full	0.51	0.51	10.96	10.76	13.87	-5.20	8.67	24.00	Pass	
HE20	MCS0	2	113	6515	Full	0.51	0.51	11.42	10.49	13.99	-5.20	8.79	24.00	Pass	
HE40	MCS0	2	099	6445	Full	0.63	0.63	13.83	13.81	16.83	-5.20	11.63	24.00	Pass	
HE40	MCS0	2	107	6485	Full	0.63	0.63	13.69	13.44	16.58	-5.20	11.38	24.00	Pass	
HE40	MCS0	2	115	6525	Full	0.63	0.63	13.54	13.12	16.35	-5.20	11.15	24.00	Pass	
HE80	MCS0	2	103	6465	Full	0.64	0.64	13.04	13.18	16.12	-5.20	10.92	24.00	Pass	
HE80	MCS0	2	119	6545	Full	0.64	0.64	14.20	12.33	16.38	-5.20	11.18	24.00	Pass	
HE160	MCS0	2	111	6505	Full	0.64	0.64	12.87	12.35	15.63	-5.20	10.43	24.00	Pass	

TEST RESULTS DATA
EIRP Power Spectral Density

UNII-6 MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2			
HE20	MCS0	2	6435	Full	0.51	0.51			2.88	-5.20	-2.32	-1.00	Pass	
HE20	MCS0	2	6475	Full	0.51	0.51			3.07	-5.20	-2.13	-1.00	Pass	
HE20	MCS0	2	6515	Full	0.51	0.51			3.16	-5.20	-2.04	-1.00	Pass	
HE40	MCS0	2	6445	Full	0.63	0.63			3.04	-5.20	-2.16	-1.00	Pass	
HE40	MCS0	2	6485	Full	0.63	0.63			2.87	-5.20	-2.33	-1.00	Pass	
HE40	MCS0	2	6525	Full	0.63	0.63			2.75	-5.20	-2.45	-1.00	Pass	
HE80	MCS0	2	6465	Full	0.64	0.64			0.79	-5.20	-4.41	-1.00	Pass	
HE80	MCS0	2	6545	Full	0.64	0.64			-0.02	-5.20	-5.22	-1.00	Pass	
HE160	MCS0	2	6505	Full	0.64	0.64			-2.76	-5.20	-7.96	-1.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

UNII-7 MIMO									
Mod.	Data Rate	N _{TX}	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	6535	Full	18.88	18.93	21.25	20.95	
HE20	MCS0	2	6695	Full	18.98	18.88	21.80	21.00	
HE20	MCS0	2	6855	Full	18.93	18.93	23.60	20.70	
HE40	MCS0	2	6565	Full	37.86	37.86	40.50	40.59	
HE40	MCS0	2	6685	Full	37.76	37.66	40.41	40.05	
HE40	MCS0	2	6845	Full	37.86	37.66	40.32	40.14	
HE80	MCS0	2	6625	Full	76.84	76.72	81.92	81.44	
HE80	MCS0	2	6705	Full	76.84	76.72	82.08	81.60	
HE80	MCS0	2	6785	Full	76.84	76.72	82.24	81.28	
HE80	MCS0	2	6865	Full	76.84	76.72	82.08	81.60	
HE160	MCS0	2	6665	Full	155.60	155.60	164.16	164.16	
HE160	MCS0	2	6825	Full	155.60	155.36	166.08	164.48	

UNII-7 MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2			
HE20	MCS0	2	6535	Full	0.51	0.51	10.85	9.71	13.33	-5.00		8.33	24.00	Pass
HE20	MCS0	2	6695	Full	0.51	0.51	10.53	10.22	13.39	-5.00		8.39	24.00	Pass
HE20	MCS0	2	6855	Full	0.51	0.51	11.26	10.45	13.89	-5.00		8.89	24.00	Pass
HE40	MCS0	2	6565	Full	0.63	0.63	14.61	12.96	16.88	-5.00		11.88	24.00	Pass
HE40	MCS0	2	6685	Full	0.63	0.63	13.85	13.20	16.55	-5.00		11.55	24.00	Pass
HE40	MCS0	2	6845	Full	0.63	0.63	13.20	12.51	15.88	-5.00		10.88	24.00	Pass
HE80	MCS0	2	6625	Full	0.64	0.64	13.85	13.10	16.50	-5.00		11.50	24.00	Pass
HE80	MCS0	2	6705	Full	0.64	0.64	12.72	12.20	15.48	-5.00		10.48	24.00	Pass
HE80	MCS0	2	6785	Full	0.64	0.64	13.17	11.72	15.52	-5.00		10.52	24.00	Pass
HE80	MCS0	2	6865	Full	0.64	0.64	13.17	12.29	15.77	-5.00		10.77	24.00	Pass
HE160	MCS0	2	6665	Full	0.64	0.64	13.38	12.67	16.05	-5.00		11.05	24.00	Pass
HE160	MCS0	2	6825	Full	0.64	0.64	13.43	12.04	15.80	-5.00		10.80	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

UNII-7 MIMO														
Mod.	Data Rate	N _{TX}	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	6535	Full	0.51	0.51			2.52		-5.00	-2.48	-1.00	Pass
HE20	MCS0	2	6695	Full	0.51	0.51			2.80		-5.00	-2.20	-1.00	Pass
HE20	MCS0	2	6855	Full	0.51	0.51			2.79		-5.00	-2.21	-1.00	Pass
HE40	MCS0	2	6565	Full	0.63	0.63			2.92		-5.00	-2.08	-1.00	Pass
HE40	MCS0	2	6685	Full	0.63	0.63			2.68		-5.00	-2.32	-1.00	Pass
HE40	MCS0	2	6845	Full	0.63	0.63			1.55		-5.00	-3.45	-1.00	Pass
HE80	MCS0	2	6625	Full	0.64	0.64			0.09		-5.00	-4.91	-1.00	Pass
HE80	MCS0	2	6705	Full	0.64	0.64			0.23		-5.00	-4.77	-1.00	Pass
HE80	MCS0	2	6785	Full	0.64	0.64			0.23		-5.00	-4.77	-1.00	Pass
HE80	MCS0	2	6865	Full	0.64	0.64			-1.11		-5.00	-6.11	-1.00	Pass
HE160	MCS0	2	6665	Full	0.64	0.64			-3.20		-5.00	-8.20	-1.00	Pass
HE160	MCS0	2	6825	Full	0.64	0.64			-4.15		-5.00	-9.15	-1.00	Pass

TEST RESULTS DATA
26dB EBW and 99% OBW

UNII-8 MIMO									
Mod.	Data Rate	N _{TX}	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	6875	Full	18.93	18.88	22.70	21.25	
HE20	MCS0	2	6895	Full	19.03	18.88	21.35	21.15	
HE20	MCS0	2	6995	Full	18.98	19.13	22.10	27.85	
HE20	MCS0	2	7095	Full	18.93	18.98	21.75	23.70	
HE40	MCS0	2	6885	Full	37.86	37.76	40.68	40.50	
HE40	MCS0	2	6925	Full	37.86	37.66	40.41	40.32	
HE40	MCS0	2	6965	Full	37.96	37.76	40.50	40.50	
HE40	MCS0	2	7085	Full	37.96	37.86	40.41	40.41	
HE80	MCS0	2	6945	Full	76.96	76.60	81.44	81.92	
HE80	MCS0	2	7025	Full	76.72	76.60	81.28	81.76	
HE160	MCS0	2	6985	Full	155.84	156.32	164.16	190.08	

TEST RESULTS DATA
EIRP Power Table

UNII-8 MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2			
HE20	MCS0	2	6875	Full	0.51	0.51	12.37	11.48	14.96	-6.00		8.96	24.00	Pass
HE20	MCS0	2	6895	Full	0.51	0.51	12.51	11.38	14.99	-6.00		8.99	24.00	Pass
HE20	MCS0	2	6995	Full	0.51	0.51	12.24	11.58	14.93	-6.00		8.93	24.00	Pass
HE20	MCS0	2	7095	Full	0.51	0.51	11.21	11.57	14.41	-6.00		8.41	24.00	Pass
HE40	MCS0	2	6885	Full	0.63	0.63	13.48	12.45	16.01	-6.00		10.01	24.00	Pass
HE40	MCS0	2	6925	Full	0.63	0.63	13.04	12.86	15.96	-6.00		9.96	24.00	Pass
HE40	MCS0	2	6965	Full	0.63	0.63	12.61	11.16	14.96	-6.00		8.96	24.00	Pass
HE40	MCS0	2	7085	Full	0.63	0.63	11.34	11.59	14.48	-6.00		8.48	24.00	Pass
HE80	MCS0	2	6945	Full	0.64	0.64	12.06	11.10	14.62	-6.00		8.62	24.00	Pass
HE80	MCS0	2	7025	Full	0.64	0.64	12.29	12.60	15.46	-6.00		9.46	24.00	Pass
HE160	MCS0	2	6985	Full	0.64	0.64	12.35	12.04	15.21	-6.00		9.21	24.00	Pass

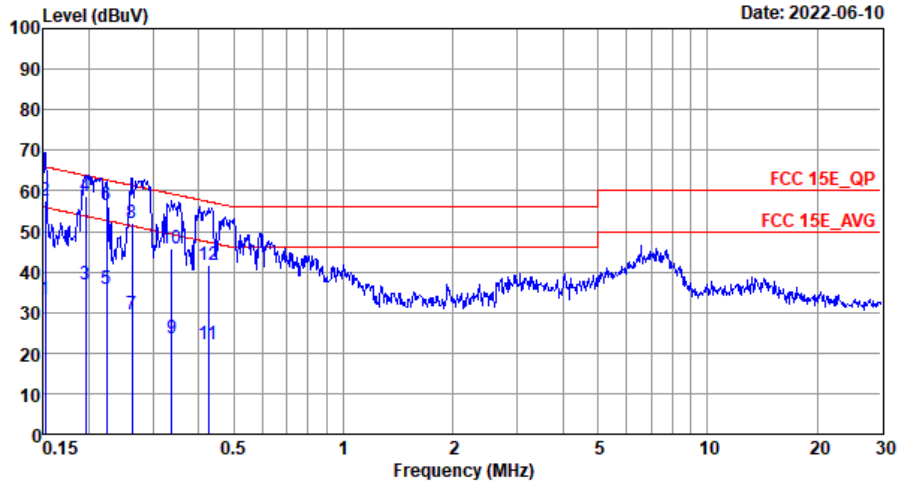
TEST RESULTS DATA
EIRP Power Spectral Density

UNII-8 MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	6875	Full	0.51	0.51			3.91	-6.00	-2.09	-1.00	Pass	
HE20	MCS0	2	6895	Full	0.51	0.51			3.86	-6.00	-2.14	-1.00	Pass	
HE20	MCS0	2	6995	Full	0.51	0.51			3.80	-6.00	-2.20	-1.00	Pass	
HE20	MCS0	2	7095	Full	0.51	0.51			2.47	-6.00	-3.53	-1.00	Pass	
HE40	MCS0	2	6885	Full	0.63	0.63			1.96	-6.00	-4.05	-1.00	Pass	
HE40	MCS0	2	6925	Full	0.63	0.63			1.68	-6.00	-4.32	-1.00	Pass	
HE40	MCS0	2	6965	Full	0.63	0.63			1.77	-6.00	-4.23	-1.00	Pass	
HE40	MCS0	2	7085	Full	0.63	0.63			0.14	-6.00	-5.86	-1.00	Pass	
HE80	MCS0	2	6945	Full	0.64	0.64			-0.79	-6.00	-6.79	-1.00	Pass	
HE80	MCS0	2	7025	Full	0.64	0.64			-0.19	-6.00	-6.19	-1.00	Pass	
HE160	MCS0	2	6985	Full	0.64	0.64			-4.87	-6.00	-10.87	-1.00	Pass	



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Lily Qiu	Temperature :	22~25°C
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

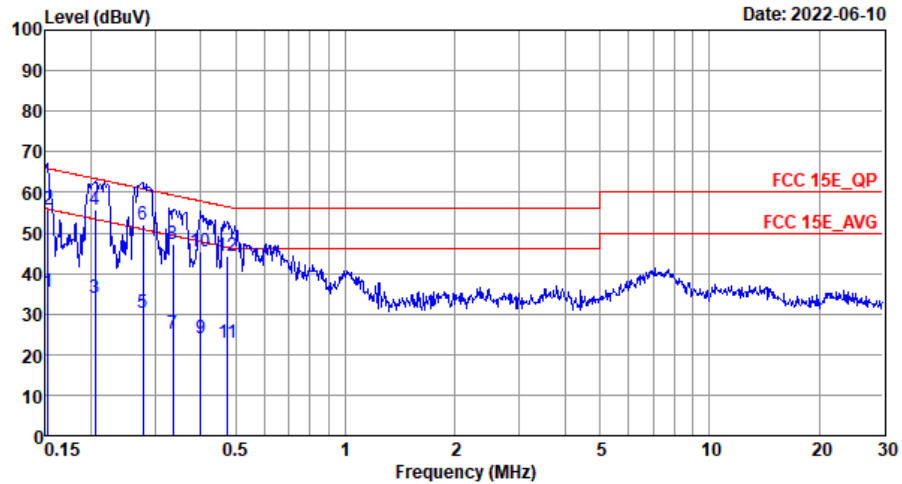


Site : CO01-S2
 Condition: FCC 15E_QP LISN_20210901_L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.15	33.33	-22.58	55.91	12.30	10.20	10.83	Average
2	0.15	57.53	-8.38	65.91	36.50	10.20	10.83	QP
3	0.20	36.81	-16.99	53.80	16.40	10.20	10.21	Average
4 *	0.20	58.61	-5.19	63.80	38.20	10.20	10.21	QP
5	0.22	35.85	-16.85	52.70	15.30	10.19	10.36	Average
6	0.22	56.35	-6.35	62.70	35.80	10.19	10.36	QP
7	0.26	29.54	-21.80	51.34	8.71	10.17	10.66	Average
8	0.26	52.04	-9.30	61.34	31.21	10.17	10.66	QP
9	0.34	23.73	-25.54	49.27	2.50	10.10	11.13	Average
10	0.34	45.83	-13.44	59.27	24.60	10.10	11.13	QP
11	0.43	22.18	-25.15	47.33	0.50	10.11	11.57	Average
12	0.43	41.78	-15.55	57.33	20.10	10.11	11.57	QP



Test Engineer :	Lily Qiu	Temperature :	22~25°C
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
 Condition: FCC 15E_QP LISN_20210901_N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.15	35.42	-20.45	55.87	14.30	10.31	10.81	Average
2	0.15	55.72	-10.15	65.87	34.60	10.31	10.81	QP
3	0.21	34.07	-19.33	53.40	13.59	10.28	10.20	Average
4 *	0.21	55.57	-7.83	63.40	35.09	10.28	10.20	QP
5	0.28	30.40	-20.50	50.90	9.40	10.23	10.77	Average
6	0.28	52.10	-8.80	60.90	31.10	10.23	10.77	QP
7	0.34	25.00	-24.31	49.31	3.70	10.18	11.12	Average
8	0.34	47.20	-12.11	59.31	25.90	10.18	11.12	QP
9	0.40	23.84	-24.02	47.86	2.20	10.19	11.45	Average
10	0.40	45.54	-12.32	57.86	23.90	10.19	11.45	QP
11	0.47	23.06	-23.39	46.45	1.10	10.19	11.77	Average
12	0.47	44.26	-12.19	56.45	22.30	10.19	11.77	QP



Appendix C. Radiated Spurious Emission

U NII-5 - 5925~6425MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 01 5955MHz		5923.14	60.81	-27.39	88.2	50.54	35.05	8.53	33.31	100	142	P	H
		5923.84	52.28	-15.92	68.2	42.01	35.05	8.53	33.31	100	142	A	H
		5955	102.11	-	-	91.78	35.1	8.54	33.31	100	142	P	H
		5955	95.87	-	-	85.54	35.1	8.54	33.31	100	142	A	H
		5924.96	57.81	-30.39	88.2	47.54	35.05	8.53	33.31	218	277	P	V
		5923.84	49.15	-19.05	68.2	38.88	35.05	8.53	33.31	218	277	A	V
		5955	102.25	-	-	91.92	35.1	8.54	33.31	218	277	P	V
		5955	94.44	-	-	84.11	35.1	8.54	33.31	218	277	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U NII-5 5925~6425MHz
WIFI 802.11a (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Margin (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for channels 01, 45, and 93.



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

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Margin (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ax HE20 Full CH 01 5955MHz and a Remark section.



U NII-5 5925~6425MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		11910	46.63	-27.37	74	49.64	38.55	11.89	53.45	-	-	P	H
HE20 Full		17865	50.56	-23.44	74	46.48	40.98	15.91	52.81	-	-	P	H
CH 01		11910	45.26	-28.74	74	48.27	38.55	11.89	53.45	-	-	P	V
5955MHz		17865	50.87	-23.13	74	46.79	40.98	15.91	52.81	-	-	P	V
802.11ax		12350	46.99	-27.01	74	49.46	38.7	12.09	53.26	-	-	P	H
HE20 Full		18525	32.6	-41.4	74	38.09	37.31	22.05	55.31	-	-	P	H
CH 45		12350	46.81	-27.19	74	49.28	38.7	12.09	53.26	-	-	P	V
6175MHz		18525	33.13	-40.87	74	38.62	37.31	22.05	55.31	-	-	P	V
802.11ax		12830	47.47	-40.73	88.2	49.42	38.85	12.27	53.07	-	-	P	H
HE20 Full		19245	32.76	-41.24	74	36.72	37.55	22.2	54.17	-	-	P	H
CH 93		12830	47.62	-40.58	88.2	49.57	38.85	12.27	53.07	-	-	P	V
6415MHz		19245	31.18	-42.82	74	35.14	37.55	22.2	54.17	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Margin (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test data for 802.11ax HE40 Full CH 03 5965MHz and a Remark section.



U NII-5 5925~6425MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		11930	45.73	-28.27	74	22.92	38.56	18.05	33.8	-	-	P	H
HE40 Full		17895	50.31	-23.69	74	19.53	40.94	21.64	31.8	-	-	p	H
CH 03		11930	45.91	-28.09	74	23.1	38.56	18.05	33.8	-	-	P	V
5965MHz		17895	50.97	-23.03	74	20.19	40.94	21.64	31.8	-	-	p	V
802.11ax		12330	45.94	-28.06	74	48.43	38.7	12.08	53.27	-	-	P	H
HE40 Full		18495	32.54	-41.46	74	38.12	37.29	22.03	55.36	-	-	p	H
CH 43		12330	47.63	-26.37	74	50.12	38.7	12.08	53.27	-	-	P	V
6165MHz		18495	32.97	-41.03	74	38.55	37.29	22.03	55.36	-	-	p	V
802.11ax		12810	48.4	-39.8	88.2	50.37	38.84	12.26	53.07	-	-	P	H
HE40 Full		19215	32.39	-41.61	74	36.45	37.54	22.14	54.2	-	-	p	H
CH 91		12810	48.72	-39.48	88.2	50.69	38.84	12.26	53.07	-	-	P	V
6405MHz		19215	30.8	-43.2	74	34.86	37.54	22.14	54.2	-	-	p	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U NII-5 5925~6425MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Margin (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ax HE80 Full CH 07 5985MHz and a Remark section.



U NII-5 5925~6425MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		11970	46.91	-27.09	74	49.82	38.58	11.93	53.42	-	-	P	H
HE80 Full		17952	50.87	-23.13	74	46.82	40.86	16.05	52.86	-	-	P	H
CH 07		11970	48.15	-25.85	74	51.06	38.58	11.93	53.42	-	-	P	V
5985MHz		17955	50.86	-23.14	74	41.19	40.86	21.67	52.86	-	-	P	V
802.11ax		12290	46.84	-27.16	74	49.36	38.69	12.07	53.28	-	-	P	H
HE80 Full		18435	33.13	-40.87	74	38.9	37.14	22	55.37	-	-	P	H
CH 39		12290	47.06	-26.94	74	49.58	38.69	12.07	53.28	-	-	P	V
6145MHz		18435	32.85	-41.15	74	38.62	37.14	22	55.37	-	-	P	V
802.11ax		12770	47.8	-40.4	88.2	49.82	38.83	12.24	53.09	-	-	P	H
HE80 Full		19155	32.04	-41.96	74	36.25	37.53	22.07	54.27	-	-	P	H
CH 87		12770	48.75	-39.45	88.2	50.77	38.83	12.24	53.09	-	-	P	V
6385MHz		19155	31.4	-42.6	74	35.61	37.53	22.07	54.27	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Margin (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11ax HE160 Full CH 15 6025MHz and a Remark section.



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		12050	46.38	-27.62	74	49.17	38.61	11.98	53.38	-	-	P	H
HE160 Full		18075	30.53	-43.47	74	37.44	36.28	21.79	55.44	-	-	P	H
CH 15		12050	45.89	-28.11	74	48.68	38.61	11.98	53.38	-	-	P	V
6025MHz		18075	30.67	-43.33	74	37.58	36.28	21.79	55.44	-	-	P	V
802.11ax		12370	46.65	-27.35	74	49.09	38.71	12.1	53.25	-	-	P	H
HE160 Full		18555	32.29	-41.71	74	37.69	37.32	22.08	55.26	-	-	P	H
CH 47		12370	47.02	-26.98	74	49.46	38.71	12.1	53.25	-	-	P	V
6185MHz		18555	33.03	-40.97	74	38.43	37.32	22.08	55.26	-	-	P	V
802.11ax		12690	47.64	-26.36	74	49.73	38.81	12.22	53.12	-	-	P	H
HE160 Full		19035	31.34	-42.66	74	35.83	37.51	21.95	54.41	-	-	P	H
CH 79		12690	47.92	-26.08	74	50.01	38.81	12.22	53.12	-	-	P	V
6345MHz		19035	32.27	-41.73	74	36.76	37.51	21.95	54.41	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U NII-6 - 6425~6525MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 97 6435MHz		12870	47.22	-40.98	88.2	49.13	38.86	12.28	53.05	-	-	P	H
		19305	31.95	-42.05	74	35.76	37.56	22.27	54.1	-	-	P	H
		12870	47.68	-40.52	88.2	49.59	38.86	12.28	53.05	-	-	P	V
		19305	30.26	-43.74	74	34.07	37.56	22.27	54.1	-	-	P	V
802.11a CH 105 6475MHz		12950	48.23	-39.97	88.2	50.05	38.89	12.31	53.02	-	-	P	H
		19425	34.1	-39.9	74	37.56	37.58	22.47	53.97	-	-	P	H
		12950	48.95	-39.25	88.2	50.77	38.89	12.31	53.02	-	-	P	V
		19425	30.09	-43.91	74	33.55	37.58	22.47	53.97	-	-	P	V
802.11a CH 113 6515MHz		13030	47.84	-40.36	88.2	49.6	38.9	12.34	53	-	-	P	H
		19545	33.23	-40.77	74	36.32	37.62	22.67	53.84	-	-	P	H
		13030	48.7	-39.5	88.2	50.46	38.9	12.34	53	-	-	P	V
		19545	33	-41	74	36.09	37.62	22.67	53.84	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U NII-6 - 6425~6525MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ax HE20 and CH 97, 6435MHz, 802.11ax HE20 and CH 105, 6475MHz, 802.11ax HE20 and CH 113, 6515MHz.

Remark

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



U NII-6 6425~6525MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11ax HE 40 CH 99 6445MHz and 802.11ax HE 40 CH 107 6485MHz.

Remark

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



U NII-6 6425~6525MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		12930	46.4	-41.8	88.2	48.25	38.88	12.3	53.03	-	-	P	H
HE80		19395	32.58	-41.42	74	36.07	37.58	22.47	54	-	-	P	H
CH 103		12930	47.15	-41.05	88.2	49	38.88	12.3	53.03	-	-	P	V
6465MHz		19395	30.73	-43.27	74	34.22	37.58	22.47	54	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**U-NII 6 - Straddle Channel
WIFI 802.11ax HE40 Full (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		13050	49.99	-38.21	88.2	51.75	38.9	12.35	53.01	-	-	P	H
HE 40		19575	33.5	-40.5	74	36.49	37.63	22.73	53.81	-	-	P	H
CH 115		13050	48.53	-39.67	88.2	50.29	38.9	12.35	53.01	-	-	P	V
6525MHz		19575	30.96	-43.04	74	33.95	37.63	22.73	53.81	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**U-NII 6 - Straddle Channel
WIFI 802.11ax HE80 Full (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		13090	48.12	-40.08	88.2	49.87	38.89	12.37	53.01	-	-	P	H
HE80		19635	32.98	-41.02	74	35.81	37.65	22.82	53.76	-	-	P	H
CH 119		13090	49.28	-38.92	88.2	51.03	38.89	12.37	53.01	-	-	P	V
6545MHz		19635	31.86	-42.14	74	34.69	37.65	22.82	53.76	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII 6 - Straddle Channel
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11ax, HE160, CH 111, 6505MHz and a Remark section.



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 117 6535MHz		13070	48.45	-39.75	88.2	50.21	38.89	12.36	53.01	-	-	P	H
		19605	33.61	-40.39	74	36.49	37.64	22.8	53.78	-	-	P	H
		13070	49.8	-38.4	88.2	51.56	38.89	12.36	53.01	-	-	P	V
		19605	31.32	-42.68	74	34.2	37.64	22.8	53.78	-	-	P	V
802.11a CH 149 6695MHz		13390	48.04	-25.96	74	49.73	38.86	12.49	53.04	-	-	P	H
		20085	34.77	-39.23	74	36.71	37.88	23.06	53.34	-	-	P	H
		13390	48.41	-25.59	74	50.1	38.86	12.49	53.04	-	-	P	V
		20085	32.43	-41.57	74	34.37	37.88	23.06	53.34	-	-	P	V
802.11a CH 181 6855MHz		13710	49.56	-38.64	88.2	51.17	38.83	12.63	53.07	-	-	P	H
		20565	36.28	-37.72	74	34.39	38.33	26.04	52.94	-	-	P	H
		13710	49.46	-38.74	88.2	51.07	38.83	12.63	53.07	-	-	P	V
		20565	34.76	-39.24	74	32.87	38.33	26.04	52.94	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U NII-7 - 6525~6875MHz
WIFI 802.11ax HE20 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ax HE20 and CH 117, 6535MHz, 802.11ax HE20 and CH 149, 6695MHz, 802.11ax HE20 and CH 181, 6855MHz.

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



**U NII-7 - 6525~6875MHz
WIFI 802.11ax HE40 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		13130	47.24	-40.96	88.2	48.98	38.89	12.38	53.01	-	-	P	H
HE40		19695	32.91	-41.09	74	35.63	37.68	22.84	53.7	-	-	P	H
CH 123		13130	47.63	-40.57	88.2	49.37	38.89	12.38	53.01	-	-	P	V
6565MHz		19695	31.86	-42.14	74	34.58	37.68	22.84	53.7	-	-	P	V
802.11ax		13370	46.4	-27.6	74	48.09	38.86	12.49	53.04	-	-	P	H
HE40		20055	34.05	-39.95	74	36.07	37.85	23.04	53.37	-	-	P	H
CH 147		13370	46.26	-27.74	74	47.95	38.86	12.49	53.04	-	-	P	V
6685MHz		20055	31.53	-42.47	74	33.55	37.85	23.04	53.37	-	-	P	V
802.11ax		13690	48.52	-39.68	88.2	50.85	38.83	11.91	53.07	-	-	P	H
HE40		20535	36.87	-37.13	74	35.26	38.31	25.79	52.95	-	-	P	H
CH 179		13690	48.88	-39.32	88.2	50.5	38.83	12.62	53.07	-	-	P	V
6845MHz		20535	34.64	-39.36	74	33.03	38.31	25.79	52.95	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U NII-7 - 6525~6875MHz

WIFI 802.11ax HE80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		13250	47.43	-26.57	74	49.15	38.88	12.43	53.03	-	-	P	H
HE80		19875	32.91	-41.09	74	35.28	37.75	22.95	53.53	-	-	P	H
CH 135		13250	46.91	-27.09	74	48.63	38.88	12.43	53.03	-	-	P	V
6625MHz		19875	32.33	-41.67	74	34.7	37.75	22.95	53.53	-	-	P	V
802.11ax		13410	46.67	-41.53	88.2	48.35	38.86	12.5	53.04	-	-	P	H
HE80		20115	34.41	-39.59	74	36.03	37.92	23.31	53.31	-	-	P	H
CH 151		13410	45.41	-42.79	88.2	47.09	38.86	12.5	53.04	-	-	P	V
6705MHz		20115	32.16	-41.84	74	33.78	37.92	23.31	53.31	-	-	P	V
802.11ax		13570	47.49	-40.71	88.2	49.14	38.84	12.57	53.06	-	-	P	H
HE80		20355	35.92	-38.08	74	35.6	38.15	24.8	53.09	-	-	P	H
CH 167		13570	46.56	-41.64	88.2	48.21	38.84	12.57	53.06	-	-	P	V
6785MHz		20355	34.73	-39.27	74	34.41	38.15	24.8	53.09	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11ax, HE160, CH 143, 6665MHz and a Remark section.



U-NII 7 - Straddle Channel
WIFI 802.11a (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11a CH 185 at 6875MHz and a Remark section.

U-NII 7 - Straddle Channel
WIFI 802.11ax HE20 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11ax HE20 at 6875MHz and a Remark section.



U-NII 7 - Straddle Channel
WIFI 802.11ax HE80 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11ax HE80 and CH 183 6865MHz.

U-NII 7 - Straddle Channel
WIFI 802.11ax HE160 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11ax HE160 and CH 175 6825MHz.



U NII-8 - 6875~7125MHz
WIFI 802.11a (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test data for 802.11a CH 229 7095MHz and a Remark section.



**U NII-8 - 6875~7125MHz
WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 189 6895MHz		13790	48.93	-39.27	88.2	50.53	38.82	12.66	53.08	-	-	P	H
		20685	35.53	-38.47	74	33.47	38.37	26.17	52.94	-	-	P	H
		13790	49.18	-39.02	88.2	50.78	38.82	12.66	53.08	-	-	P	V
		20685	33.56	-40.44	74	31.5	38.37	26.17	52.94	-	-	P	V
802.11a CH 209 6995MHz		13990	48.42	-39.78	88.2	49.97	38.8	12.75	53.1	-	-	P	H
		20985	35.09	-38.91	74	33.3	38.49	25.75	52.91	-	-	P	H
		13990	47.31	-40.89	88.2	48.86	38.8	12.75	53.1	-	-	P	V
		20985	32.11	-41.89	74	30.32	38.49	25.75	52.91	-	-	P	V
802.11a CH 229 7095MHz		14190	47.91	-40.29	88.2	49.32	38.95	12.85	53.21	-	-	P	H
		21285	33.25	-40.75	74	31.07	38.67	25.64	52.59	-	-	P	H
		14190	49.63	-38.57	88.2	31.35	38.95	12.85	33.52	-	-	P	V
		21285	32.84	-41.16	74	30.66	38.67	25.64	52.59	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 CH 229 7095MHz		7095	100.82	-	-	90.27	35.54	8.65	33.64	272	49	P	H
		7095	93.41	-	-	82.86	35.54	8.65	33.64	272	49	A	H
		7127.5	63.15	-25.05	88.2	52.59	35.55	8.66	33.65	272	49	P	H
	*	7346.44	51.49	-22.51	74	40.75	35.64	8.84	33.74	272	49	P	H
		7126.335	54.43	-13.77	68.2	43.87	35.55	8.66	33.65	272	49	A	H
		7272.81	41.18	-12.82	54	30.53	35.61	8.75	33.71	272	49	A	H
		7095	97.44	-	-	86.89	35.54	8.65	33.64	218	277	P	V
		7095	94.01	-	-	83.46	35.54	8.65	33.64	218	277	A	V
		7125	62.43	-25.77	88.2	51.87	35.55	8.66	33.65	218	277	P	V
	*	7272.125	50.25	-23.75	74	39.6	35.61	8.75	33.71	218	277	P	V
		7126.335	52.62	-15.58	68.2	42.06	35.55	8.66	33.65	218	277	A	V
		7307.22	40.44	-13.56	54	29.79	35.62	8.76	33.73	218	277	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U NII-8 - 6875~7125MHz
WIFI 802.11ax HE20 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ax HE20, CH 189, CH 209, CH 229 at various frequencies.

Remark

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



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11 ax HE40 CH 227 7085MHz		7085	93.43	-	-	82.87	35.53	8.66	33.63	271	49	P	H
		7085	87.57	-	-	77.01	35.53	8.66	33.63	271	49	A	H
		7135.955	63.85	-24.35	88.2	53.27	35.55	8.68	33.65	271	49	P	H
		7256.995	50.36	-23.64	74	39.73	35.6	8.74	33.71	271	49	P	H
		7125	52.75	-15.45	68.2	42.19	35.55	8.66	33.65	271	49	A	H
		7251.42	41.02	-12.98	54	30.39	35.6	8.74	33.71	271	49	A	H
		7085	95.29	-	-	84.73	35.53	8.66	33.63	218	277	P	V
		7085	88.4	-	-	77.84	35.53	8.66	33.63	218	277	A	V
		7125.72	65.39	-22.81	88.2	54.83	35.55	8.66	33.65	218	277	P	V
		7323.3	50.43	-23.57	74	39.73	35.63	8.8	33.73	218	277	P	V
		7125	54.16	-14.04	68.2	43.6	35.55	8.66	33.65	218	277	A	V
		7320.24	40.89	-13.11	54	30.19	35.63	8.8	33.73	218	277	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



U NII-8 - 6875~7125MHz
WIFI 802.11 HE40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11 ax HE40, CH 195, CH 203, CH 227 at various frequencies.

Remark

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



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

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11ax HE80 and CH 215 7025MHz.

Remark

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



U NII-8 - 6875~7125MHz
WIFI 802.11ax HE80 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ax HE80, CH 199, 6945MHz, CH 215, and 7025MHz. A Remark section at the bottom states: '1. No other spurious found. 2. All results are PASS against Peak and Average limit line.'



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

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test data for 802.11ax HE160 CH 207 6985MHz and a Remark section.



U NII-8 - 6875~7125MHz
WIFI 802.11n HE160 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Cable Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11ax, 160, CH 207, and 6985MHz, plus a Remark section.



U NII-8 – Straddle Channel
WIFI 802.11ax HE40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		13770	48.68	-39.52	88.2	50.29	38.82	12.65	53.08	-	-	P	H
HE40		20655	35.92	-38.08	74	33.81	38.36	26.23	52.94	-	-	P	H
CH 187		13770	48.17	-40.03	88.2	49.78	38.82	12.65	53.08	-	-	P	V
6885MHz		20655	35.33	-38.67	74	33.22	38.36	26.23	52.94	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



<Co-location Mode>

WIFI 802.11a CH 229 + LTE B42 (Band Edge @ 3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 229 7095MHz + LTE B42 Link		7095	97.52	-	-	86.97	35.54	8.65	33.64	100	131	P	H
		7095	92.37	-	-	81.82	35.54	8.65	33.64	100	131	A	H
		7126.165	67.98	-20.22	88.2	57.41	35.55	8.67	33.65	100	131	P	H
		7336.65	50.76	-23.24	74	40.04	35.63	8.83	33.74	100	131	P	H
		7125.405	59.93	-8.27	68.2	49.36	35.55	8.67	33.65	100	131	A	H
		7285.365	43.05	-10.95	54	32.4	35.61	8.76	33.72	100	131	A	H
		7095	100.63	-	-	90.08	35.54	8.65	33.64	123	271	P	V
		7095	95.29	-	-	84.74	35.54	8.65	33.64	123	271	A	V
		7126.165	66.3	-21.9	88.2	55.73	35.55	8.67	33.65	123	271	P	V
		7273.015	50.66	-23.34	74	40.02	35.61	8.75	33.72	123	271	P	V
		7125.87	60.12	-8.08	68.2	49.55	35.55	8.67	33.65	123	271	A	V
	7258.395	43.12	-10.88	54	32.48	35.6	8.75	33.71	123	271	A	V	

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



WIFI 802.11a CH 229 + LTE B42 + BLE CH00 (Band Edge @ 3m)

	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 229 7095MHz+LTE B42 Link+BLE CH00		7095	94.24	-	-	83.69	35.54	8.65	33.64	100	182	P	H
		7095	88.88	-	-	78.33	35.54	8.65	33.64	100	182	A	H
		7130.615	62.73	-25.47	88.2	52.16	35.55	8.67	33.65	100	182	P	H
	*	7265.895	50.56	-23.44	74	39.91	35.61	8.75	33.71	100	182	P	H
		7125	54.39	-13.81	68.2	43.82	35.55	8.67	33.65	100	182	A	H
		7320.705	42.92	-11.08	54	32.22	35.63	8.8	33.73	100	182	A	H
		7095	102.75	-	-	92.2	35.54	8.65	33.64	161	280	P	V
		7095	98.09	-	-	87.54	35.54	8.65	33.64	161	280	A	V
		7125	69.36	-18.84	88.2	58.79	35.55	8.67	33.65	161	280	P	V
	*	7320.63	50.78	-23.22	74	40.08	35.63	8.8	33.73	161	280	P	V
		7125	63.28	-4.92	68.2	52.71	35.55	8.67	33.65	161	280	A	V
		7330.935	42.97	-11.03	54	32.26	35.63	8.82	33.74	161	280	A	V
802.11a CH 229 7095MHz+LTE B42 Link+BLE CH00		2352.945	52.2	-21.8	74	49.17	31.9	4.82	33.69	350	11	P	H
		2388.54	44.32	-9.68	54	41.19	31.9	4.89	33.66	350	11	A	H
		2402	94.05	-	-	90.89	31.91	4.91	33.66	350	11	P	H
		2402	94.05	-	-	90.89	31.91	4.91	33.66	350	11	A	H
		2359.77	52.46	-21.54	74	49.41	31.9	4.83	33.68	228	311	P	V
		2377.515	43.82	-10.18	54	40.73	31.9	4.87	33.68	228	311	A	V
		2402	97.44	-	-	94.28	31.91	4.91	33.66	228	311	P	V
		2402	97.43	-	-	94.27	31.91	4.91	33.66	228	311	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 6G 802.11a CH 229 + LTE B42 + WIFI 2.4G 802.11ax HE40 CH09 (Band Edge @ 3m)

	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 229 7095MHz+LTE B42 Link+11ax 40 CH09		7095	96.14	-	-	85.59	35.54	8.65	33.64	100	180	P	H
		7095	89.85	-	-	79.3	35.54	8.65	33.64	100	180	A	H
		7125	67.68	-20.52	88.2	57.11	35.55	8.67	33.65	100	180	P	H
	*	7273.905	50.78	-23.22	74	40.14	35.61	8.75	33.72	100	180	P	H
		7125	58.98	-9.22	68.2	48.41	35.55	8.67	33.65	100	180	A	H
		7306.755	42.74	-11.26	54	32.08	35.62	8.77	33.73	100	180	A	H
		7095	101.03	-	-	90.48	35.54	8.65	33.64	160	286	P	V
		7095	92.55	-	-	82	35.54	8.65	33.64	160	286	A	V
		7125.275	73.12	-15.08	88.2	62.55	35.55	8.67	33.65	160	286	P	V
	*	7311.285	50.86	-23.14	74	40.19	35.62	8.78	33.73	160	286	P	V
		7125	62.14	-6.06	68.2	51.57	35.55	8.67	33.65	160	286	A	V
		7253.745	43.39	-10.61	54	32.75	35.6	8.75	33.71	160	286	A	V
802.11a CH 229 7095MHz+LTE B42 Link+11ax 40 CH09		2388.68	52.44	-21.56	74	49.31	31.9	4.89	33.66	125	168	P	H
		2389.94	42.3	-11.7	54	39.17	31.9	4.89	33.66	125	168	A	H
		2452	103.44	-	-	99.91	32.2	4.96	33.63	125	168	P	H
		2452	94.54	-	-	91.01	32.2	4.96	33.63	125	168	A	H
		2484.32	66.36	-7.64	74	62.86	32.13	4.99	33.62	125	168	P	H
		2483.62	50.98	-3.02	54	47.48	32.13	4.99	33.62	125	168	A	H
		2389.94	53.41	-20.59	74	50.28	31.9	4.89	33.66	224	289	P	V
		2389.94	42.01	-11.99	54	38.88	31.9	4.89	33.66	224	289	A	V
		2452	102.56	-	-	99.03	32.2	4.96	33.63	224	289	P	V
		2452	94.04	-	-	90.51	32.2	4.96	33.63	224	289	A	V
		2486	64.47	-9.53	74	60.96	32.13	5	33.62	224	289	P	V
		2483.5	49.18	-4.82	54	45.68	32.13	4.99	33.62	224	294	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11a CH 229 + LTE B42 (Harmonic @ 3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	(H/V)
				(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	
802.11a CH 229 7095MHz+LTE B42 Link		6991	54.8	-33.4	88.2	44.19	35.5	8.71	33.6	-	-	P	H
		10486.5	45.38	-42.82	88.2	50.57	37.29	10.86	53.34	-	-	P	H
		13982	47.94	-40.26	88.2	49.5	38.8	12.74	53.1	-	-	P	H
		14190	47.86	-40.34	88.2	49.27	38.95	12.85	53.21	-	-	P	H
		21285	34.25	-39.75	74	32.07	38.67	25.64	52.59	-	-	P	H
		6991	52.19	-36.01	88.2	41.58	35.5	8.71	33.6	-	-	P	V
		10486.5	44.93	-43.27	88.2	50.12	37.29	10.86	53.34	-	-	P	V
		13982	47.32	-40.88	88.2	48.88	38.8	12.74	53.1	-	-	P	V
		14190	47.61	-40.59	88.2	49.02	38.95	12.85	53.21	-	-	P	V
		21285	32.34	-41.66	74	30.16	38.67	25.64	52.59	-	-	P	V

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



WIFI 802.11a CH 229 + LTE B42 + BLE CH00 (Harmonic @ 3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	(H/V)
				(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	
802.11a CH 229 7095MHz+LTE B42 Link+BLE CH00 TX		4804	49.35	-24.65	74	41.01	33.89	7.09	32.64	-	-	P	H
		6991	66.31	-21.89	88.2	55.7	35.5	8.71	33.6	-	-	P	H
		10486.5	46.4	-41.8	88.2	51.59	37.29	10.86	53.34	-	-	P	H
		13982	48.15	-40.05	88.2	49.71	38.8	12.74	53.1	-	-	P	H
		14190	49.46	-38.74	88.2	50.87	38.95	12.85	53.21	-	-	P	H
		21285	33.25	-40.75	74	31.07	38.67	25.64	52.59	-	-	P	H
		4804	51.34	-22.66	74	43	33.89	7.09	32.64	-	-	P	V
		6991	55.35	-32.85	88.2	44.74	35.5	8.71	33.6	-	-	P	V
		10486.5	45.27	-42.93	88.2	50.46	37.29	10.86	53.34	-	-	P	V
		13982	48.31	-39.89	88.2	49.87	38.8	12.74	53.1	-	-	P	V
		14190	49.07	-39.13	88.2	50.48	38.95	12.85	53.21	-	-	P	V
		21285	32.84	-41.16	74	30.66	38.67	25.64	52.59	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 6G 802.11a CH 229 + LTE B42 + WIFI 2.4G 802.11ax HE40 CH09 (Harmonic @ 3m)

	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 229 7095MHz+LTE B42 Link+11ax 40 CH09		4904	50.26	-23.74	74	41.87	33.8	7.21	32.62	-	-	P	H
		6991	70.92	-17.28	88.2	60.31	35.5	8.71	33.6	-	-	P	H
		7356	43.82	-30.18	74	53.4	35.64	8.87	54.09	-	-	P	H
		10486.5	45.82	-42.38	88.2	51.01	37.29	10.86	53.34	-	-	P	H
		13982	49.14	-39.06	88.2	50.7	38.8	12.74	53.1	-	-	P	H
		14190	49.89	-38.31	88.2	51.3	38.95	12.85	53.21	-	-	P	H
		4904	49.13	-24.87	74	40.74	33.8	7.21	32.62	-	-	P	V
		6991	70.66	-17.54	88.2	60.05	35.5	8.71	33.6	-	-	P	V
		7356	44.24	-29.76	74	53.82	35.64	8.87	54.09	-	-	P	V
		10486.5	45.31	-42.89	88.2	50.5	37.29	10.86	53.34	-	-	P	V
		13982	49.16	-39.04	88.2	44.51	38.8	18.95	53.1	-	-	P	V
		14190	49.15	-39.05	88.2	44.24	38.95	19.17	53.21	-	-	P	V
	21285	33.47	-40.53	74	31.29	38.67	25.64	52.59	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	(dB)	Limit Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11a LF		53.28	21.98	-18.02	40	39.42	13.7	0.74	31.88	-	-	P	H
		155.13	24.03	-19.47	43.5	37.88	16.36	1.14	31.35	-	-	P	H
		266.68	29.65	-16.35	46	39.86	19.23	1.53	30.97	-	-	P	H
		359.8	25.03	-20.97	46	33.09	20.6	1.78	30.44	-	-	P	H
		508.21	24.82	-21.18	46	29.7	23.5	2.12	30.5	-	-	P	H
		700.27	26.61	-19.39	46	29.28	24.9	2.53	30.1	-	-	P	H
		55.22	29.93	-10.07	40	47.74	13.3	0.75	31.86	-	-	P	V
		82.38	26.42	-13.58	40	43.88	13.3	0.88	31.64	-	-	P	V
		183.26	24.39	-19.11	43.5	38.95	15.26	1.25	31.07	-	-	P	V
		353.98	22.89	-23.11	46	31.11	20.46	1.77	30.45	-	-	P	V
		558.65	24.44	-21.56	46	28.55	24.16	2.23	30.5	-	-	P	V
		724.52	27.16	-18.84	46	29.49	25.22	2.57	30.12	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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



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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2							(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		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H
2412MHz													

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

For Peak Limit @ 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. Margin (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. Margin (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”.



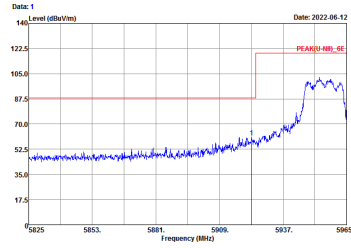
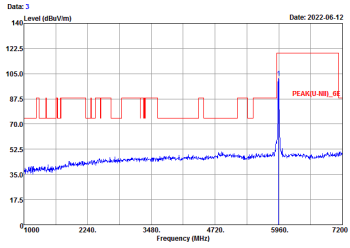
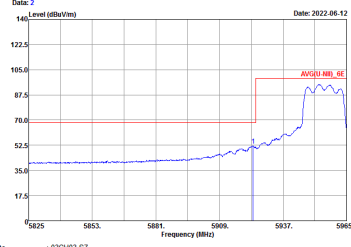
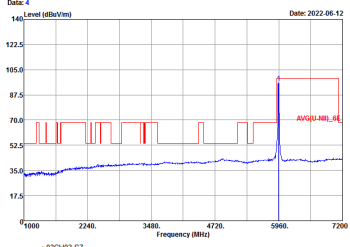
Appendix D. Radiated Spurious Emission

Note symbol

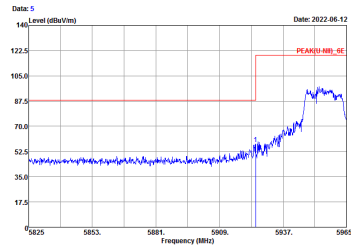
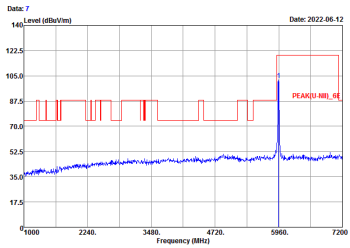
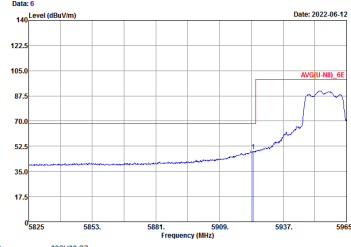
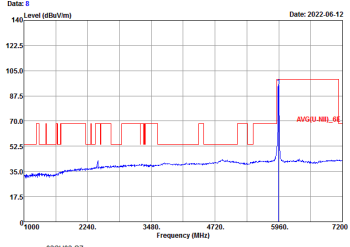
-L	Low channel location
-R	High channel location



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

WIFI	U NII-5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH01 5955MHz	
1+2	Horizontal	Fundamental
Peak	 <p>Date: 1 Level (dBuV/m) Date: 2022-06-12</p> <p>Site : 03CH03-SZ Condition : PEAK(U-NII)_EE 3m ANT3117_0057 HORIZONTAL Project : 242301 Mode : Mode 1 IMEI : 353593830019656/353593830019664 Plane : Y with Accessory : 6M powersetting 10.5</p>	 <p>Date: 3 Level (dBuV/m) Date: 2022-06-12</p> <p>Site : 03CH03-SZ Condition : PEAK(U-NII)_EE 3m ANT3117_0057 HORIZONTAL Project : 242301 Mode : Mode 1 IMEI : 353593830019656/353593830019664 Plane : Y with Accessory : 6M powersetting 10.5</p>
Avg.	 <p>Date: 2 Level (dBuV/m) Date: 2022-06-12</p> <p>Site : 03CH03-SZ Condition : AVG(U-NII)_EE 3m ANT3117_0057 HORIZONTAL Project : 242301 Mode : Mode 1 IMEI : 353593830019656/353593830019664 Plane : Y with Accessory : 6M powersetting 10.5</p>	 <p>Date: 4 Level (dBuV/m) Date: 2022-06-12</p> <p>Site : 03CH03-SZ Condition : AVG(U-NII)_EE 3m ANT3117_0057 HORIZONTAL Project : 242301 Mode : Mode 1 IMEI : 353593830019656/353593830019664 Plane : Y with Accessory : 6M powersetting 10.5</p>



WIFI	U NII-5 5925-6425MHz Band Edge @ 3m	
ANT	802.11a CH01 5955MHz	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH03-SZ Condition : PEAK(U-NII)_BE 3m ANT3117_0057 VERTICAL Project : 242301 Mode : Mode 1 IMEI : 353593830019664/353593830019664 Plane : Y with Accessory : GM powersetting 10.5</p>	 <p>Site : 03CH03-SZ Condition : PEAK(U-NII)_BE 3m ANT3117_0057 VERTICAL Project : 242301 Mode : Mode 1 IMEI : 353593830019664/353593830019664 Plane : Y with Accessory : GM powersetting 10.5</p>
Avg.	 <p>Site : 03CH03-SZ Condition : AVG(U-NII)_BE 3m ANT3117_0057 VERTICAL Project : 242301 Mode : Mode 1 IMEI : 353593830019664/353593830019664 Plane : Y with Accessory : GM powersetting 10.5</p>	 <p>Site : 03CH03-SZ Condition : AVG(U-NII)_BE 3m ANT3117_0057 VERTICAL Project : 242301 Mode : Mode 1 IMEI : 353593830019664/353593830019664 Plane : Y with Accessory : GM powersetting 10.5</p>



U NII-5 - 5925~6425MHz

WIFI 802.11ax HE20 (Band Edge @ 3m)

WIFI	U NII-5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH01 5955MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH03-SZ Condition : PEAK(U-NII)_EE 3m ANT3117_0057 HORIZONTAL Project : 242301 Mode : Mode 4 IMEI : 353593830019656/353593830019664 Plane : Y with Accessory : Mcs0 powersetting 11</p>	<p>Site : 03CH03-SZ Condition : PEAK(U-NII)_EE 3m ANT3117_0057 HORIZONTAL Project : 242301 Mode : Mode 4 IMEI : 353593830019656/353593830019664 Plane : Y with Accessory : Mcs0 powersetting 11</p>
Avg.	<p>Site : 03CH03-SZ Condition : AVG(U-NII)_EE 3m ANT3117_0057 HORIZONTAL Project : 242301 Mode : Mode 4 IMEI : 353593830019656/353593830019664 Plane : Y with Accessory : Mcs0 powersetting 11</p>	<p>Site : 03CH03-SZ Condition : AVG(U-NII)_EE 3m ANT3117_0057 HORIZONTAL Project : 242301 Mode : Mode 4 IMEI : 353593830019656/353593830019664 Plane : Y with Accessory : Mcs0 powersetting 11</p>