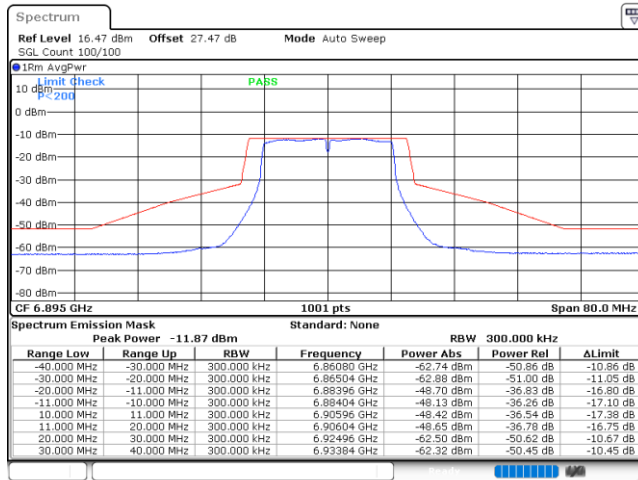
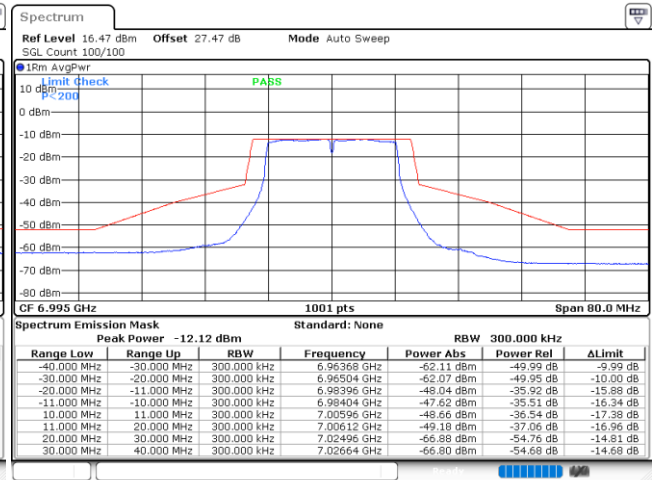




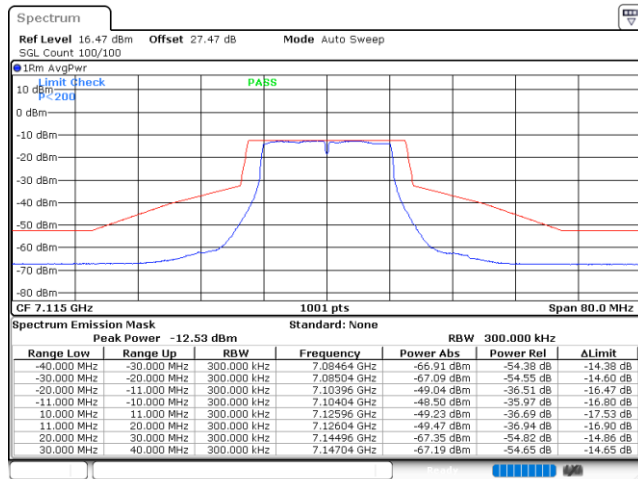
Plot on Channel 6895MHz



Plot on Channel 6995MHz



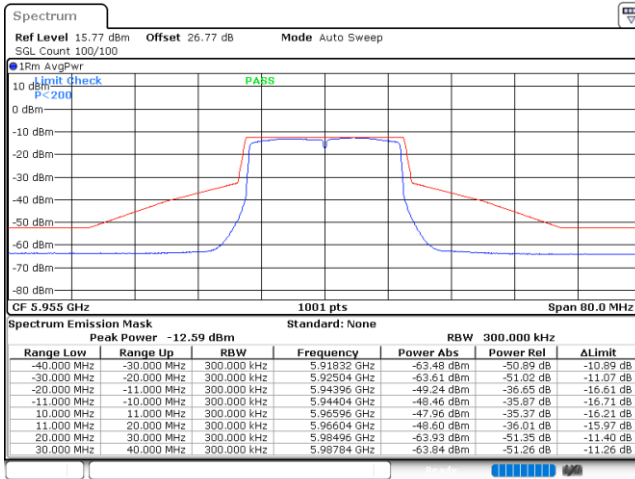
Plot on Channel 7115MHz





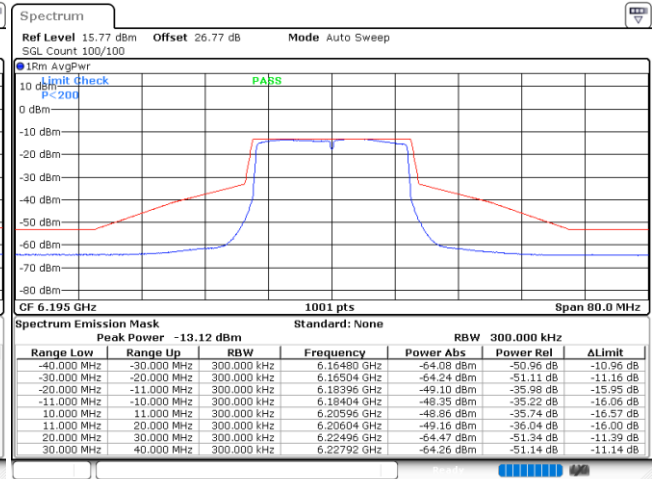
EUT Mode : 802.11ax HE20

Plot on Channel 5955MHz



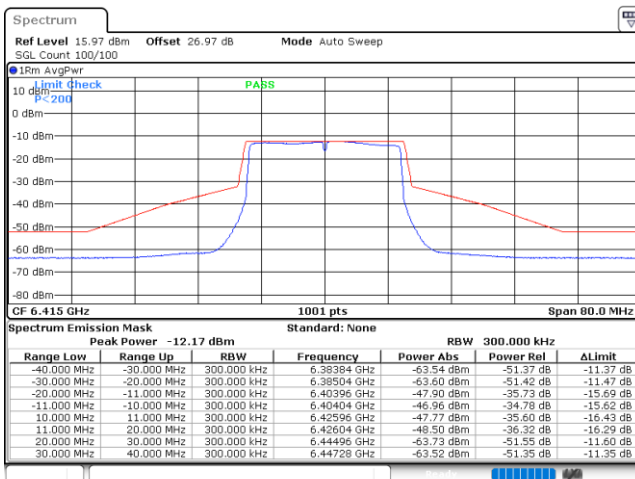
Date: 14.NOV.2021 09:24:37

Plot on Channel 6195MHz



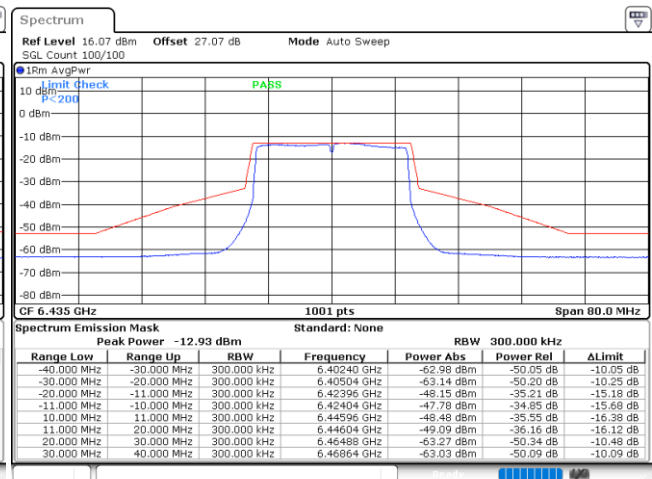
Date: 14.NOV.2021 09:31:00

Plot on Channel 6415MHz



Date: 14.NOV.2021 09:36:35

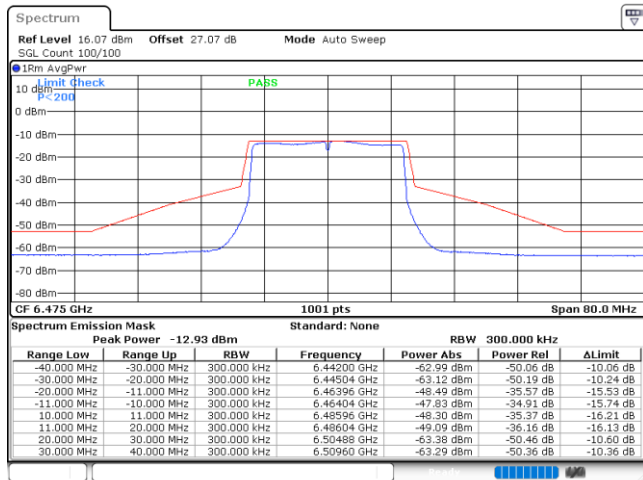
Plot on Channel 6435MHz



Date: 15.NOV.2021 19:26:52

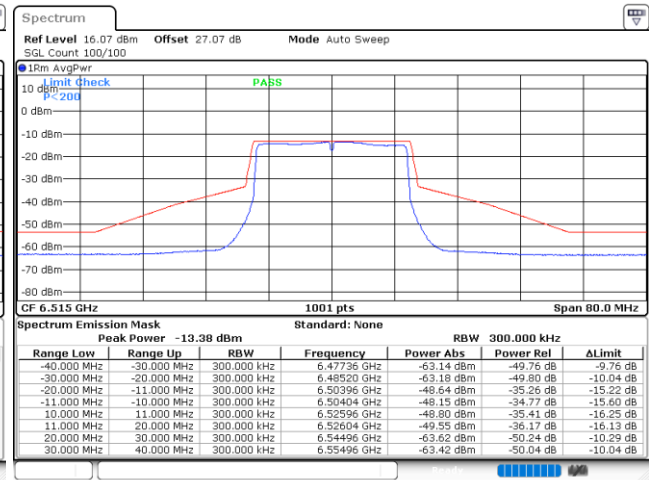


Plot on Channel 6475MHz



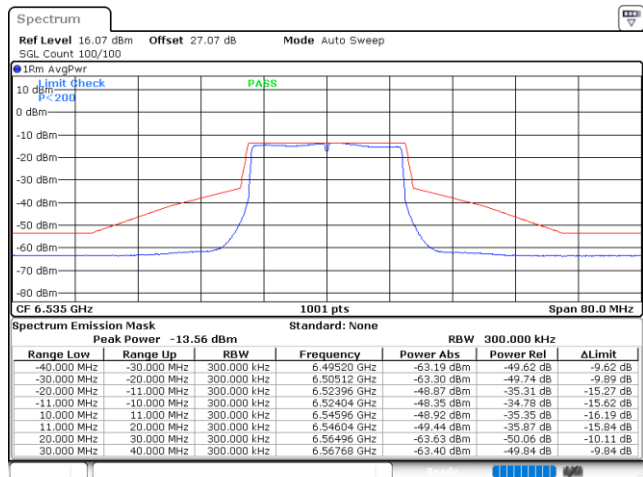
Date: 15.NOV.2021 19:33:37

Plot on Channel 6515MHz



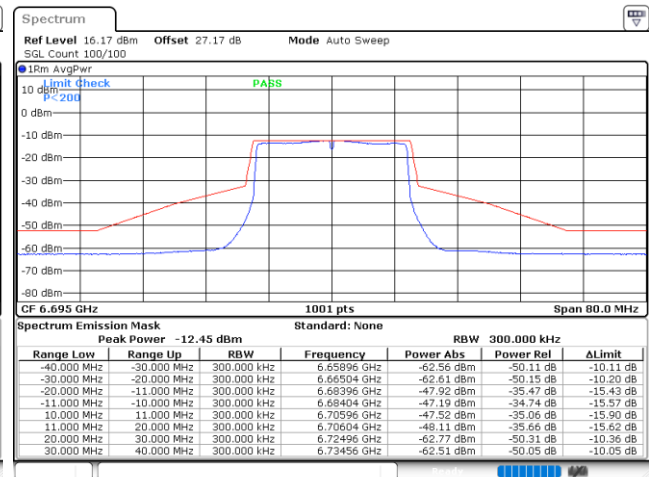
Date: 15.NOV.2021 19:41:01

Plot on Channel 6535MHz



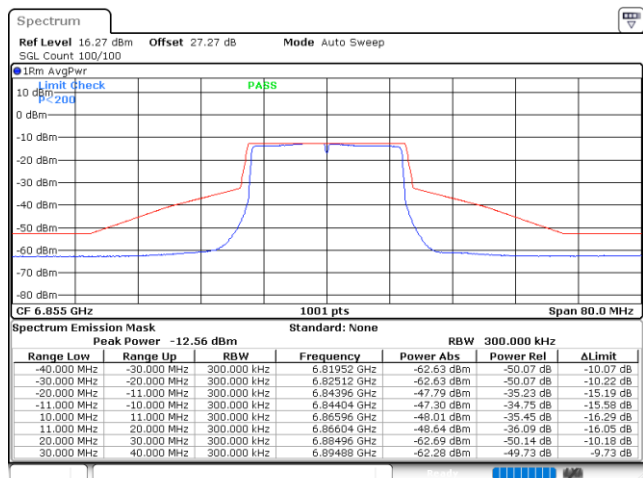
Date: 15.NOV.2021 19:52:18

Plot on Channel 6695MHz



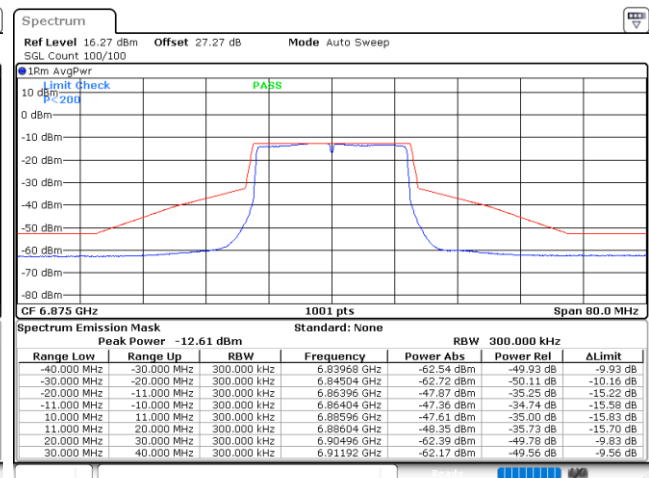
Date: 15.NOV.2021 20:02:09

Plot on Channel 6855MHz



Date: 15.NOV.2021 20:24:01

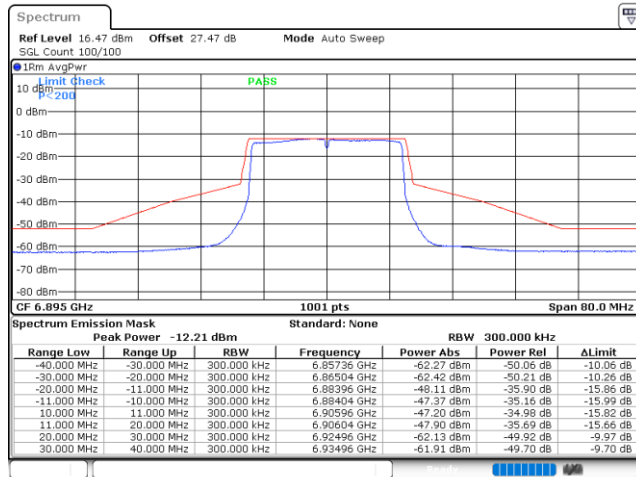
Plot on Channel 6875MHz



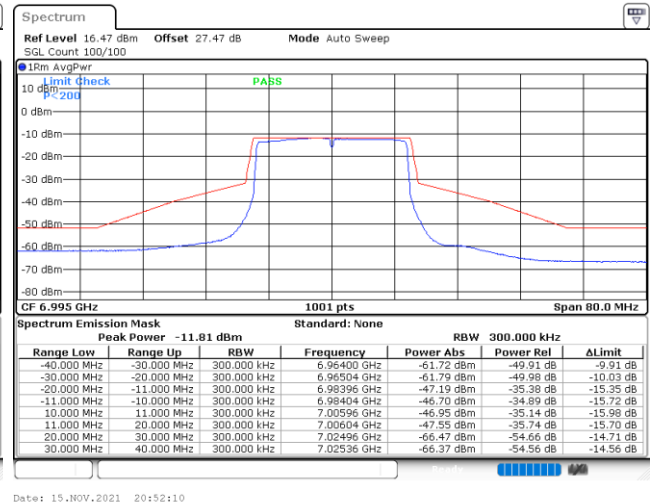
Date: 15.NOV.2021 20:28:26



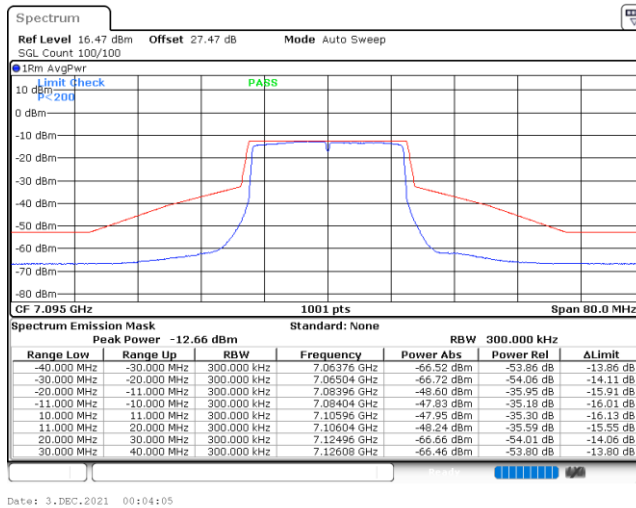
Plot on Channel 6895MHz



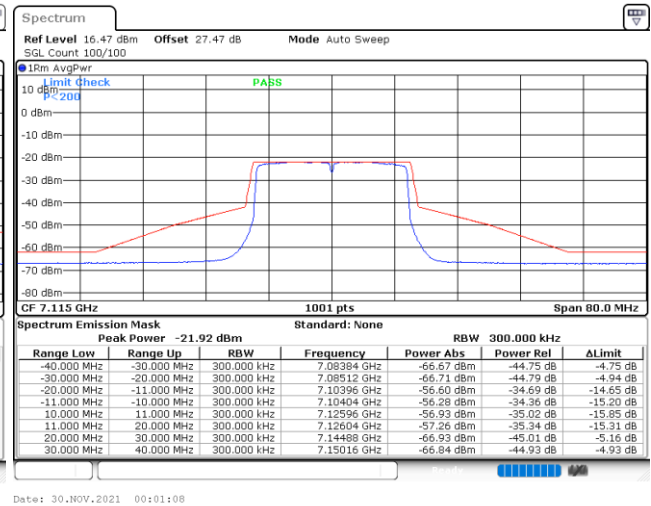
Plot on Channel 6995MHz



Plot on Channel 7095MHz



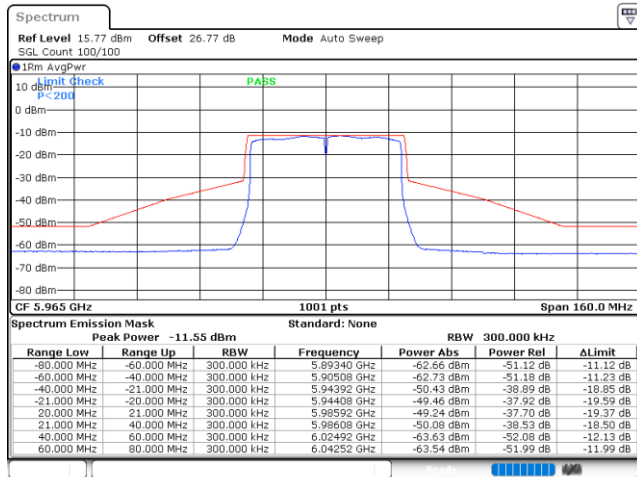
Plot on Channel 7115MHz





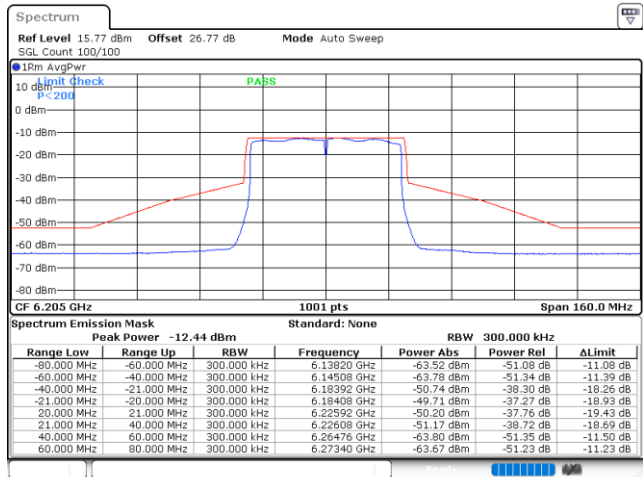
EUT Mode : 802.11ax HE40

Plot on Channel 5965MHz



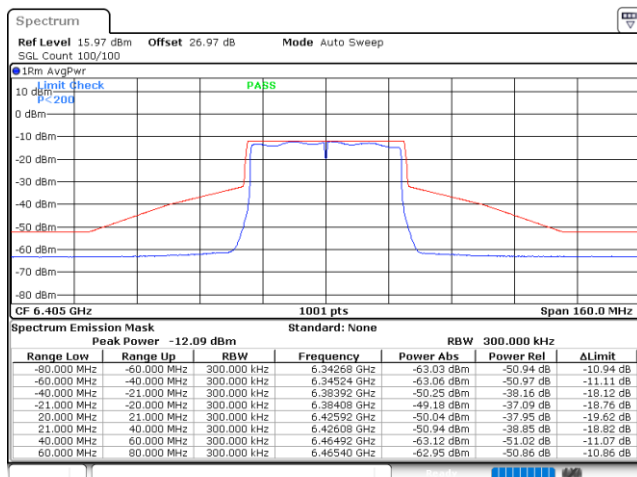
Date: 15.NOV.2021 21:02:26

Plot on Channel 6205MHz



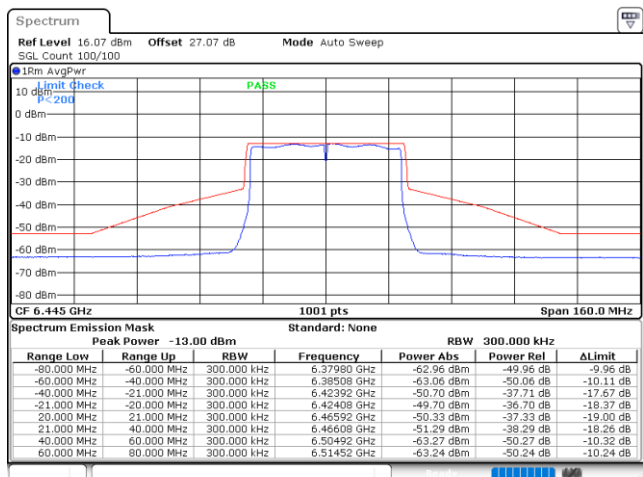
Date: 15.NOV.2021 21:07:13

Plot on Channel 6405MHz



Date: 15.NOV.2021 21:12:03

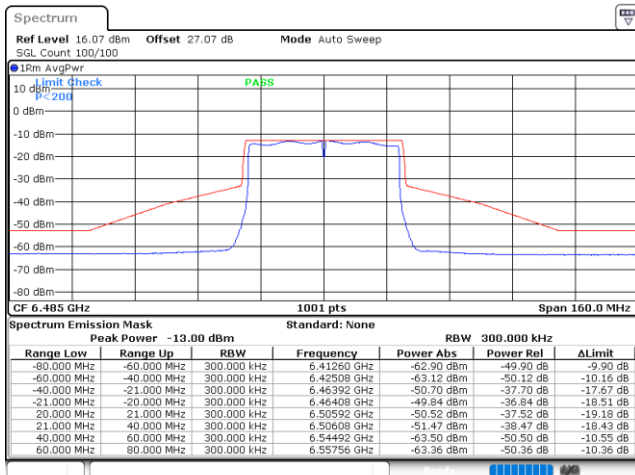
Plot on Channel 6445MHz



Date: 15.NOV.2021 21:22:10

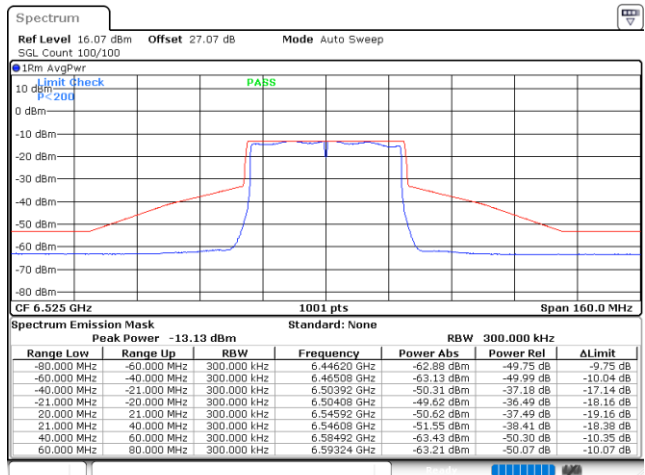


Plot on Channel 6485MHz



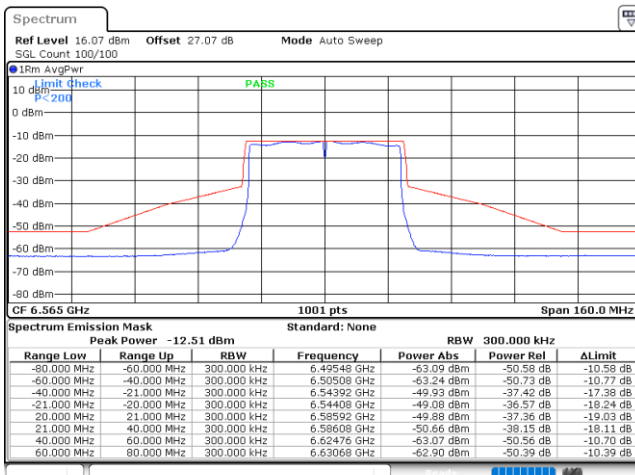
Date: 15.NOV.2021 21:31:22

Plot on Channel 6525MHz



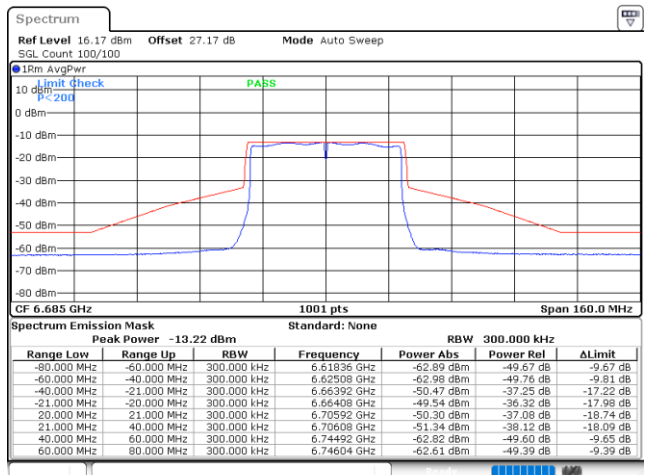
Date: 15.NOV.2021 21:43:30

Plot on Channel 6565MHz



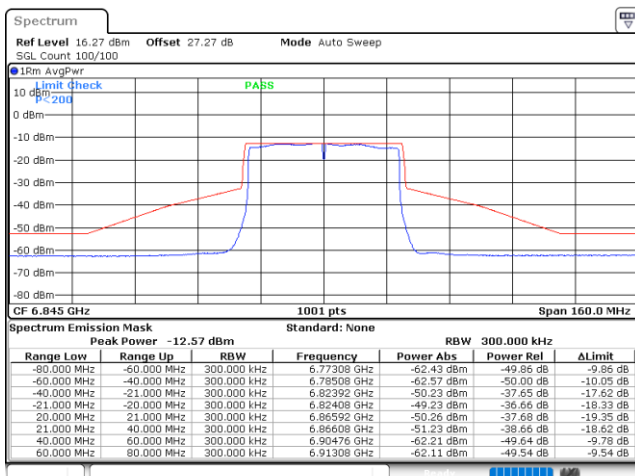
Date: 15.NOV.2021 21:51:07

Plot on Channel 6685MHz



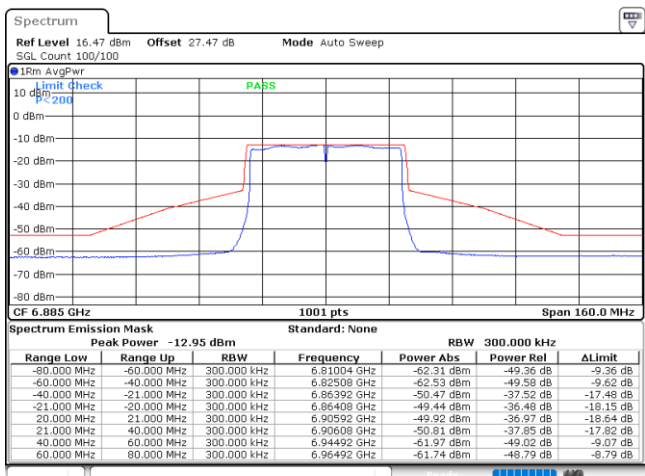
Date: 15.NOV.2021 21:58:05

Plot on Channel 6845MHz



Date: 15.NOV.2021 22:03:52

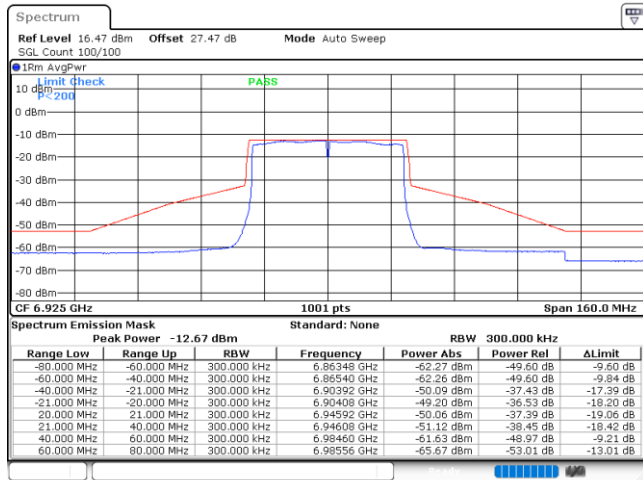
Plot on Channel 6885MHz



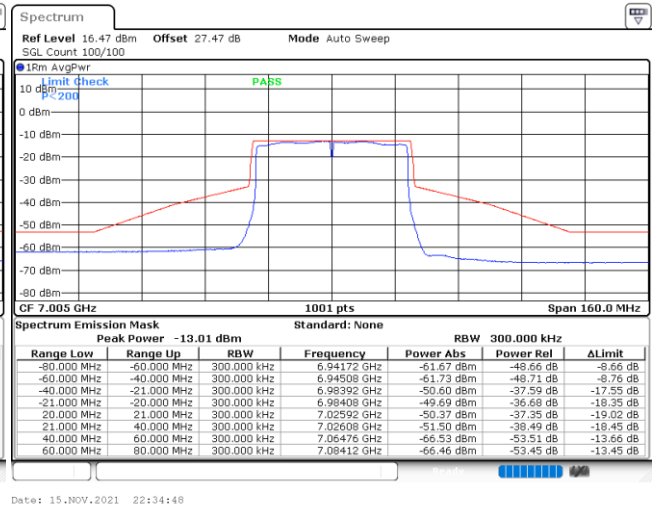
Date: 15.NOV.2021 22:09:27



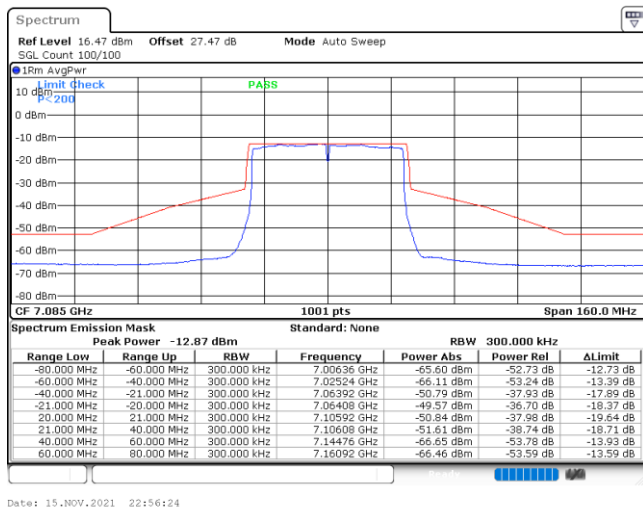
Plot on Channel 6925MHz



Plot on Channel 7005MHz



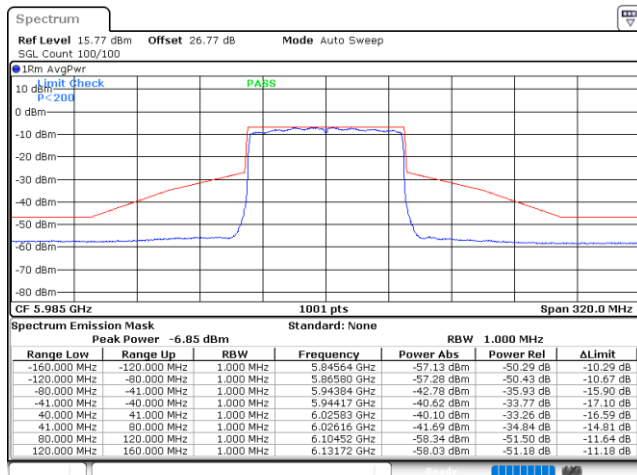
Plot on Channel 7085MHz





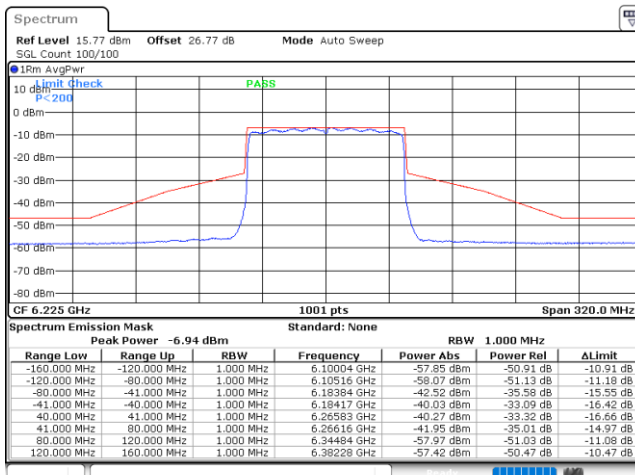
EUT Mode : 802.11ax HE80

Plot on Channel 5985MHz



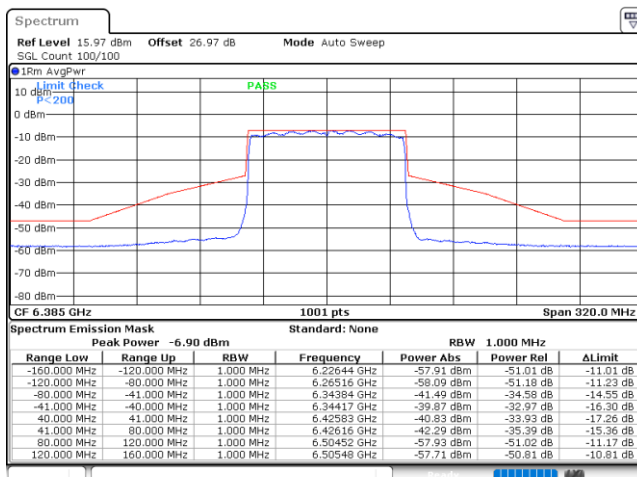
Date: 15.NOV.2021 23:10:57

Plot on Channel 6225MHz



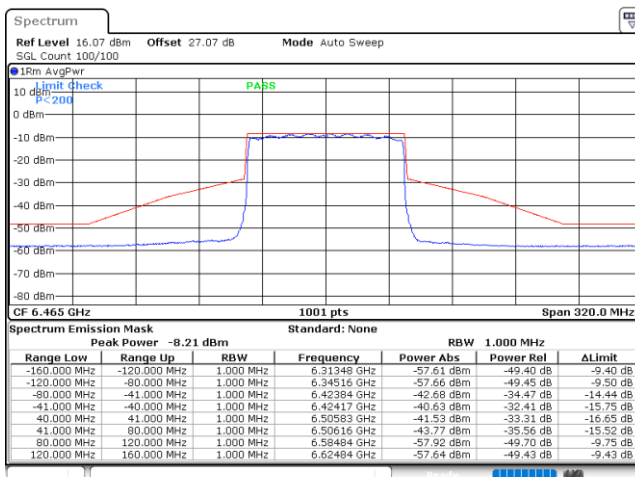
Date: 15.NOV.2021 23:21:21

Plot on Channel 6385MHz

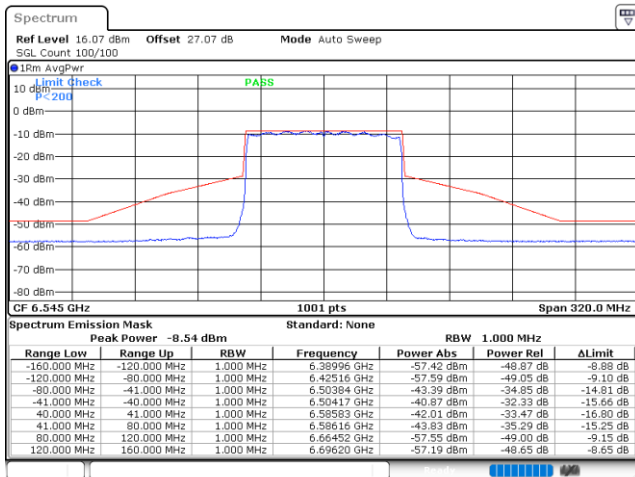


Date: 15.NOV.2021 23:24:39

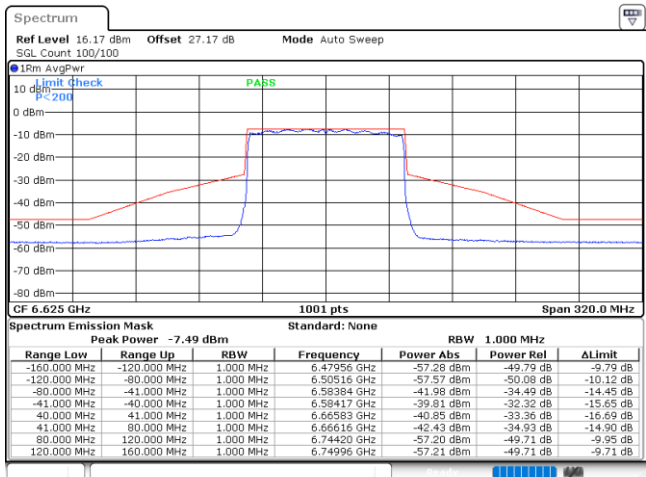
Plot on Channel 6465MHz



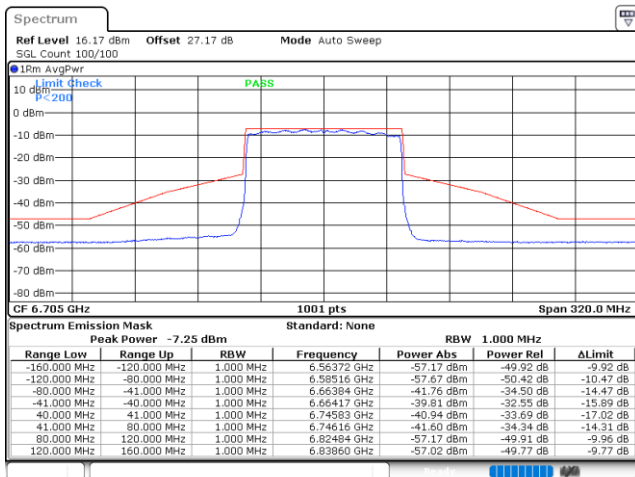
Date: 15.NOV.2021 23:28:59

**Plot on Channel 6545MHz**

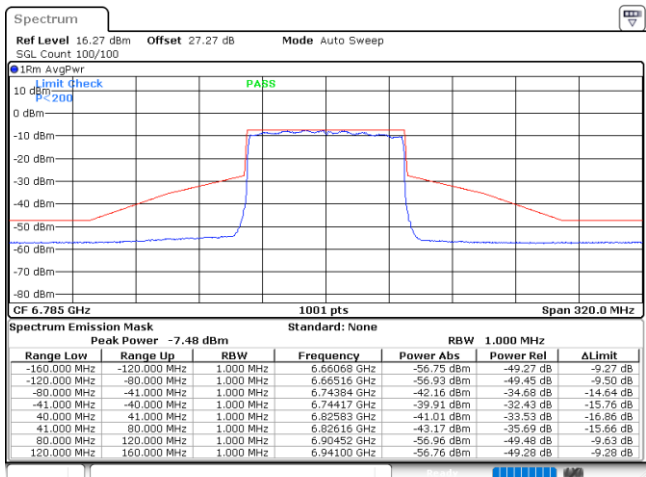
Date: 15.NOV.2021 23:33:31

Plot on Channel 6625MHz

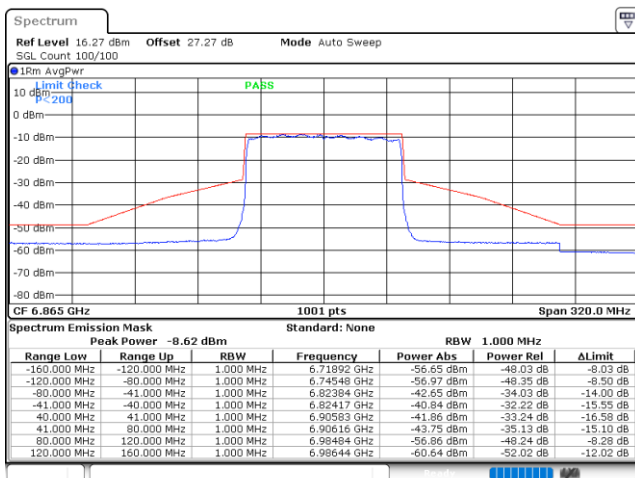
Date: 15.NOV.2021 23:41:52

Plot on Channel 6705MHz

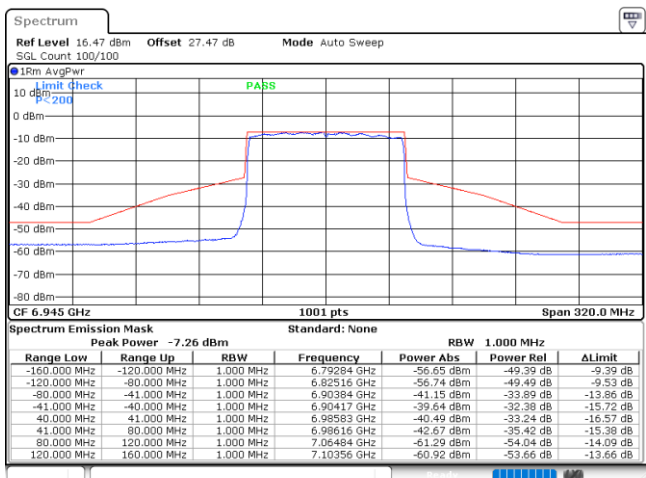
Date: 15.NOV.2021 23:45:53

Plot on Channel 6785MHz

Date: 16.NOV.2021 00:05:32

Plot on Channel 6865MHz

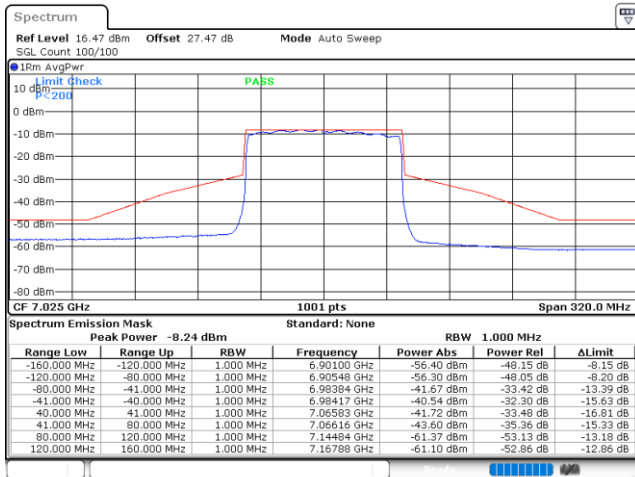
Date: 15.NOV.2021 23:54:17

Plot on Channel 6945MHz

Date: 15.NOV.2021 23:59:30



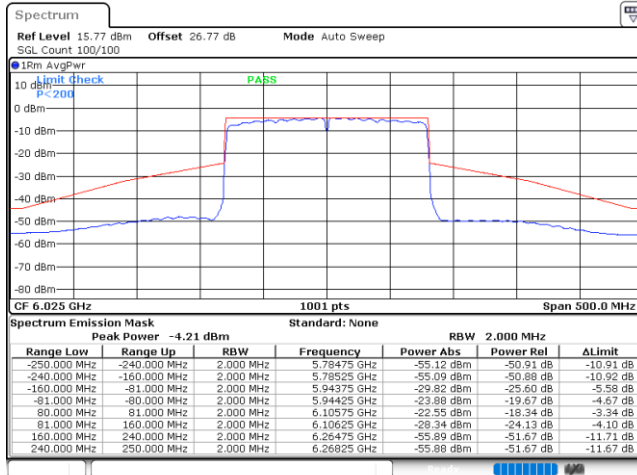
Plot on Channel 7025MHz





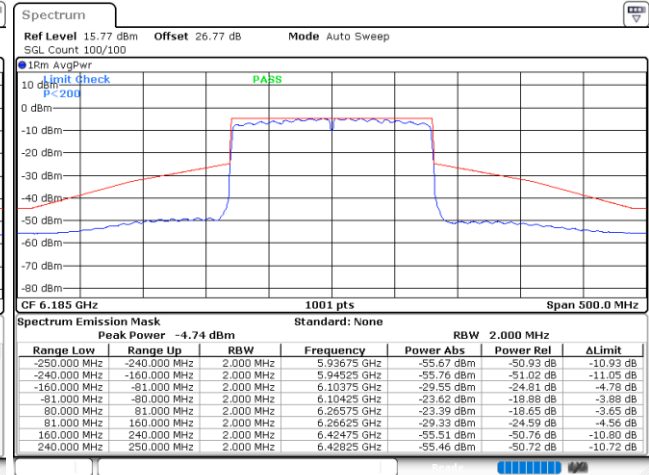
EUT Mode : 802.11ax HE160

Plot on Channel 6025MHz



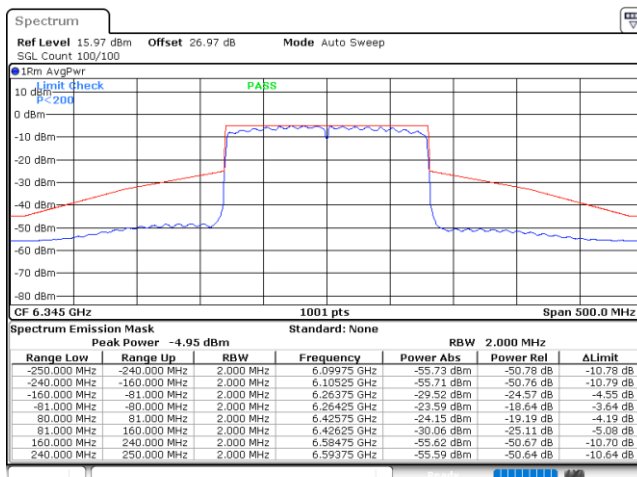
Date: 16.NOV.2021 00:10:48

Plot on Channel 6185MHz



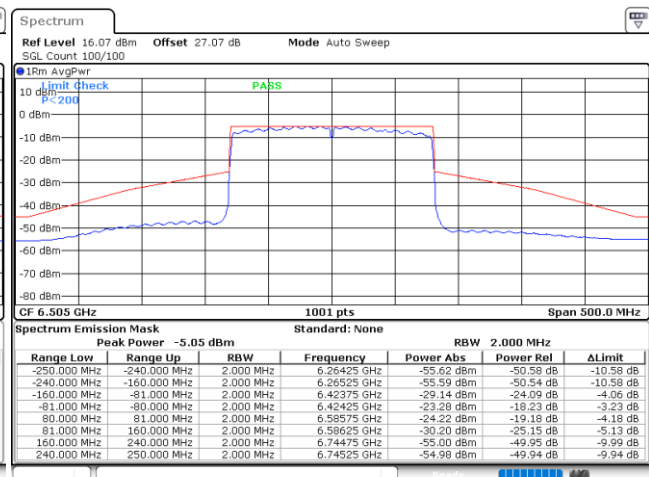
Date: 16.NOV.2021 00:16:16

Plot on Channel 6345MHz



Date: 16.NOV.2021 00:21:41

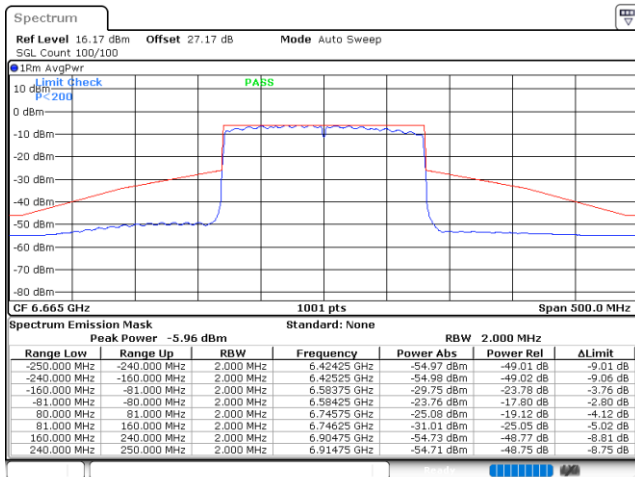
Plot on Channel 6505MHz



Date: 16.NOV.2021 00:25:13

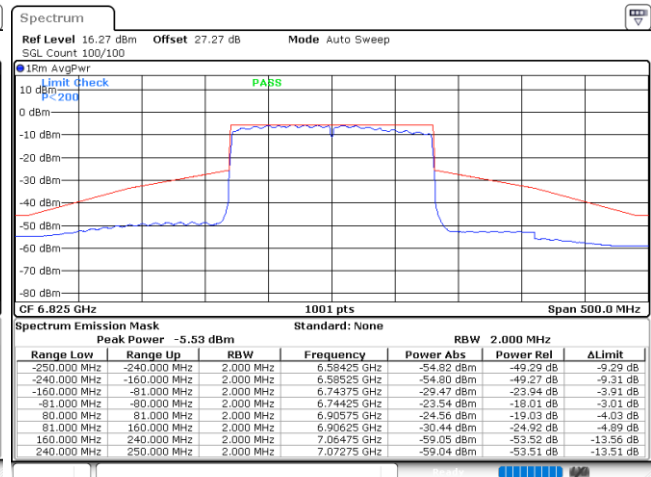


Plot on Channel 6665MHz



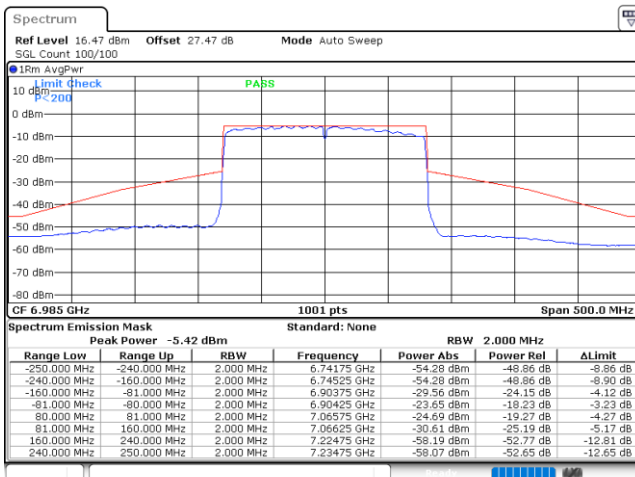
Date: 16.NOV.2021 00:30:19

Plot on Channel 6825MHz



Date: 16.NOV.2021 00:37:13

Plot on Channel 6985MHz



Date: 16.NOV.2021 00:44:46

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

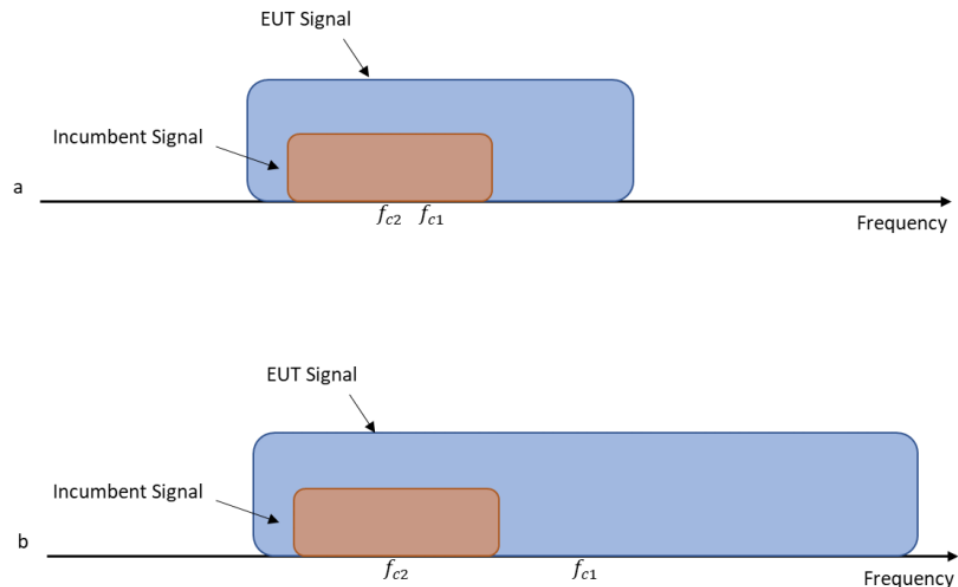


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01.

Section I) Contention Based Protocol

Conducted method Step-by-Step Procedure, Conducted Setup

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

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

3.5.4 Test Setup

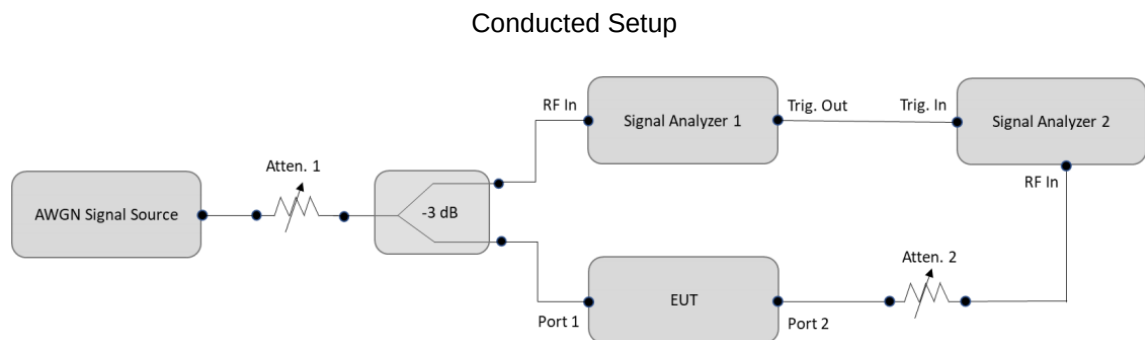


Figure 2. Contention-based protocol test setup, conducted method Step-by-Step Procedure, Conducted Setup

3.5.5 Support Unit used in test configuration and system

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

3.5.6 Test Summary of Contention Based Protocol Test

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Measured Detection level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Margin (dB)
UNII Band 5	6135	20	6135	-66.5	100	-64.2	2.3
	6185	160	6110	-67.52	100	-64.2	3.32
			6185	-64.92	100	-64.2	0.72
			6260	-66.02	100	-64.2	1.82
UNII Band 6	6455	20	6455	-69.18	100	-64.2	4.98
	6505	160	6430	-67.2	100	-64.2	3
			6505	-64.47	100	-64.2	0.27
			6580	-68.56	100	-64.2	4.36
UNII Band 7	6695	20	6695	-68.89	100	-64.2	4.69
	6665	160	6590	-68.59	100	-64.2	4.39
			6665	-64.28	100	-64.2	0.08
			6740	-69	100	-64.2	4.8
UNII Band 8	7015	20	7015	-72.69	100	-65.2	7.49
	6985	160	6910	-67.46	100	-65.2	2.26
			6985	-65.36	100	-65.2	0.16
			7060	-66.43	100	-65.2	1.23

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



3.5.7 Test Plots of Contention Based Protocol Test

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

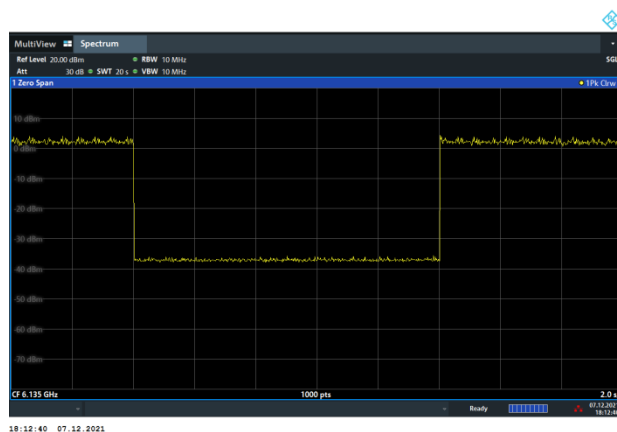
802.11ax (HE20) / 6135MHz

Threshold Level (TL) = -66.5dBm/MHz



802.11ax (HE20) / CH37

Test result is pass due to no transmission occur.



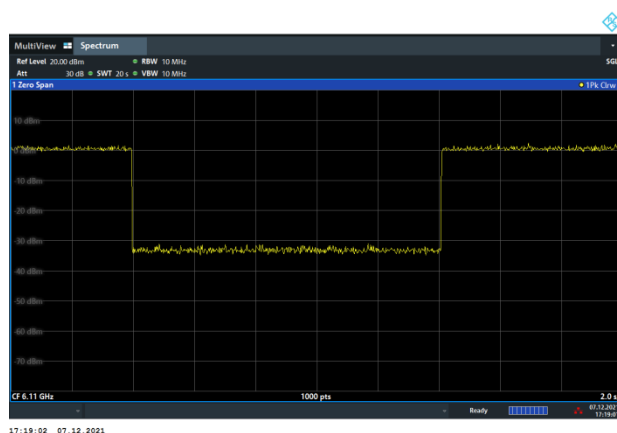
802.11ax (HE160) / 6110MHz (Lower edge)

Threshold Level (TL) = -67.52dBm/MHz



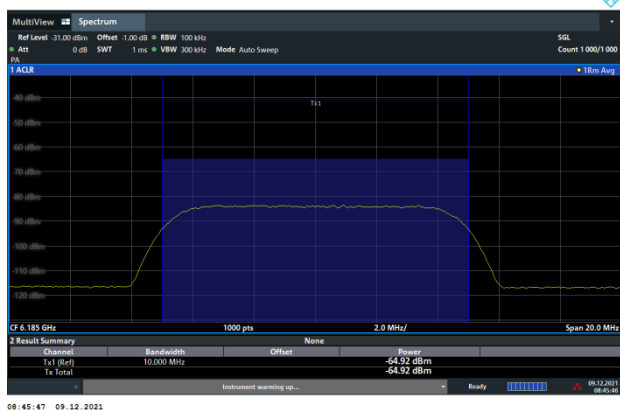
802.11ax (HE160) / CH47 (Lower edge)

Test result is pass due to no transmission occur.



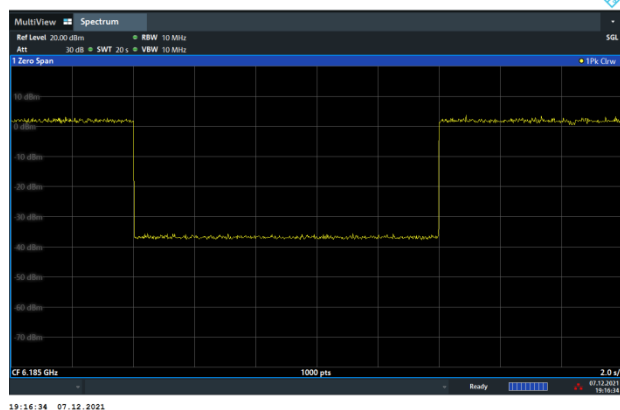


802.11ax (HE160) / 6185MHz (Middle)
Threshold Level (TL) = -64.92dBm/MHz



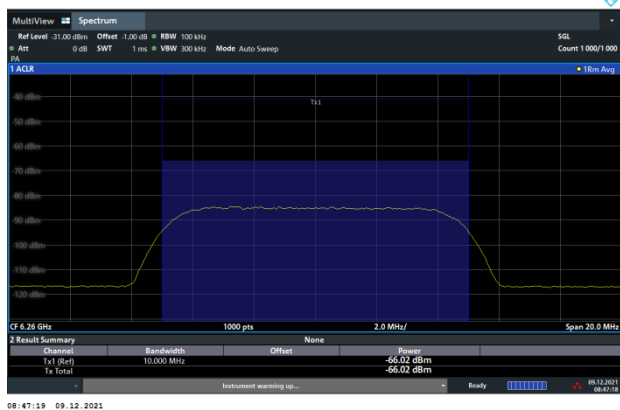
08:45:47 09.12.2021

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



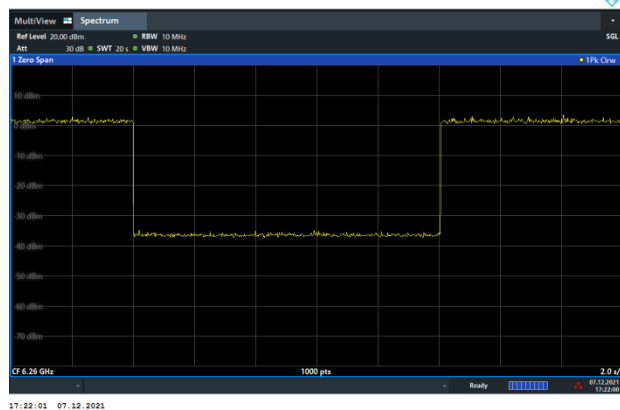
19:16:34 07.12.2021

802.11ax (HE160) / 6260MHz (Upper edge)
Threshold Level (TL) = -66.02dBm/MHz

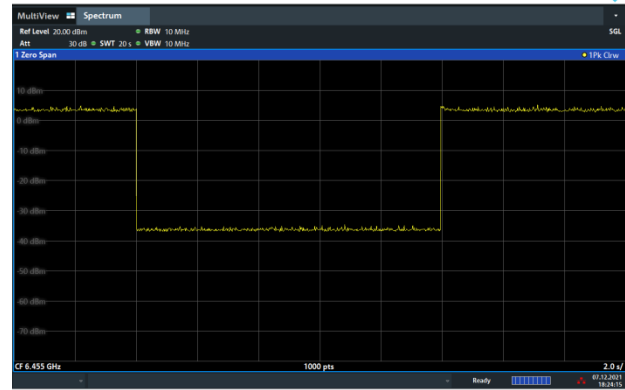
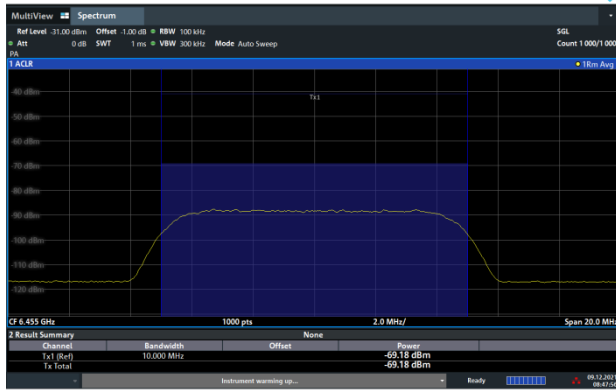
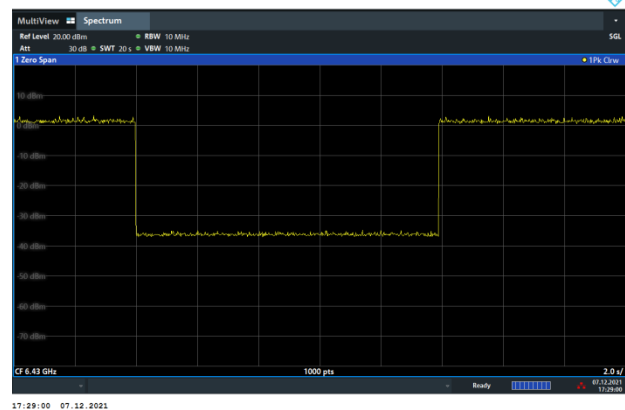
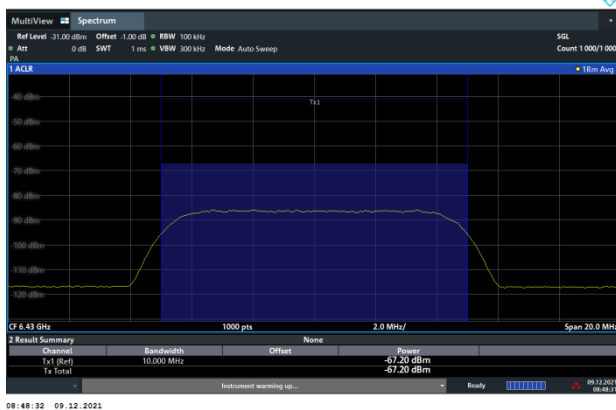


08:47:19 09.12.2021

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

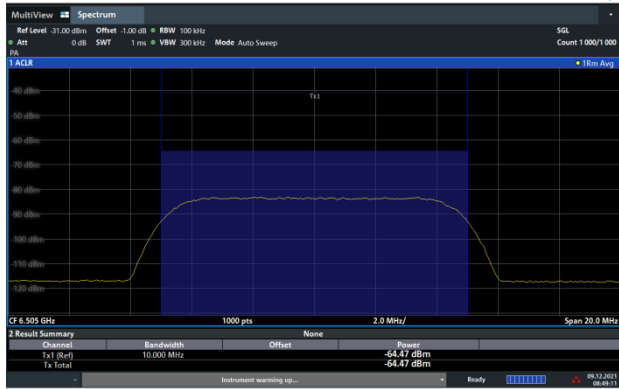


17:22:01 07.12.2021

Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)
802.11ax (HE20) / 6455MHz
Threshold Level (TL) = -69.18dBm/MHz
802.11ax (HE20) / CH101
Test result is pass due to no transmission occur.

802.11ax (HE160) / 6430MHz (Lower edge)
Threshold Level (TL) = -67.2dBm/MHz
802.11ax (HE160) / CH111 (Lower edge)
Test result is pass due to no transmission occur.


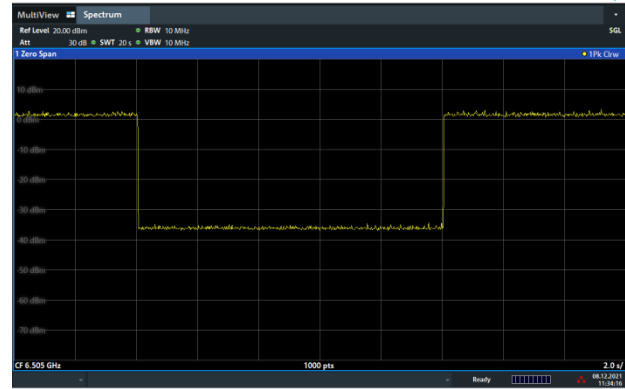


802.11ax (HE160) / 6505MHz (Middle)
Threshold Level (TL) = -64.47dBm/MHz



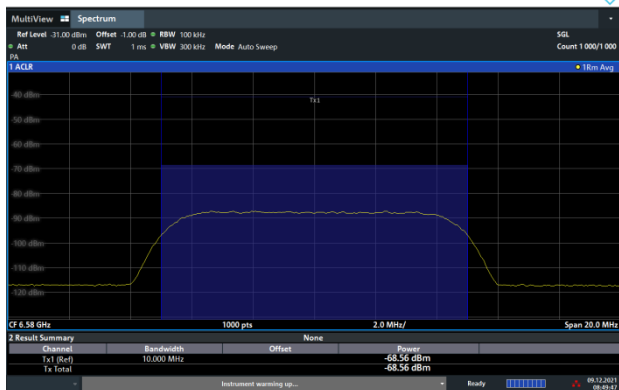
08:49:12 09.12.2021

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



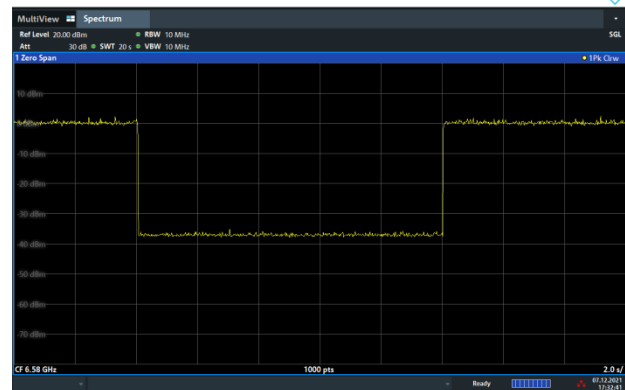
11:34:16 08.12.2021

802.11ax (HE160) / 6580MHz (Upper edge)
Threshold Level (TL) = -68.56dBm/MHz

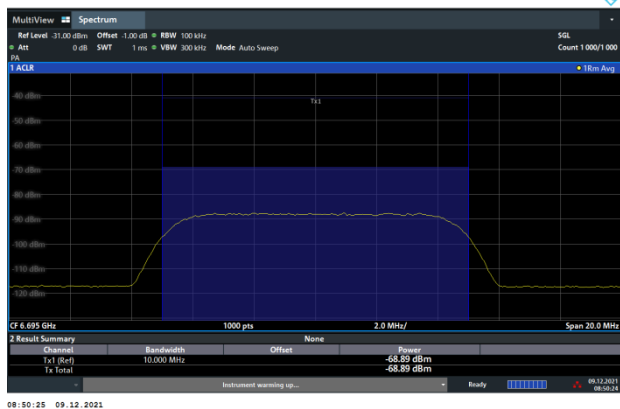
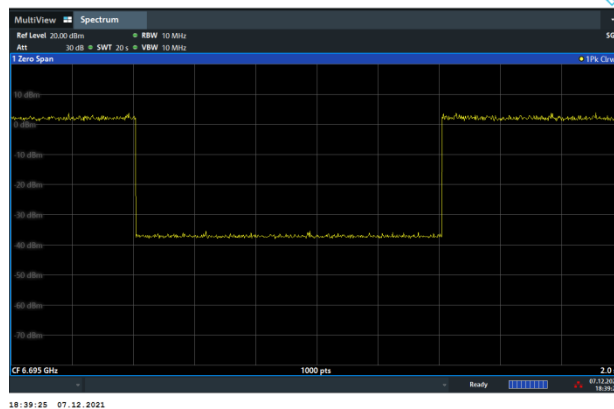
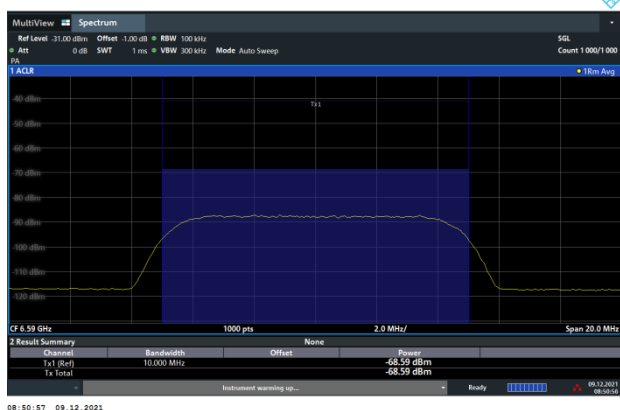
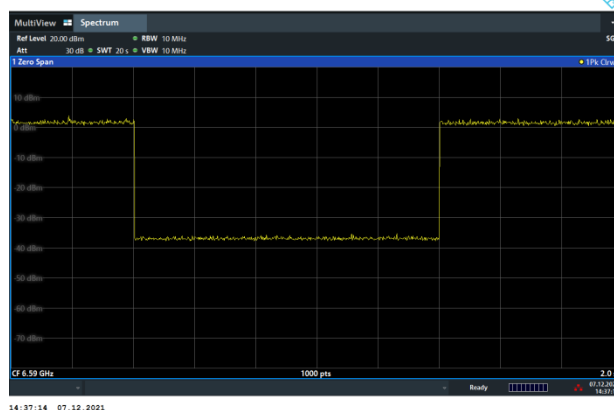


08:49:48 09.12.2021

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

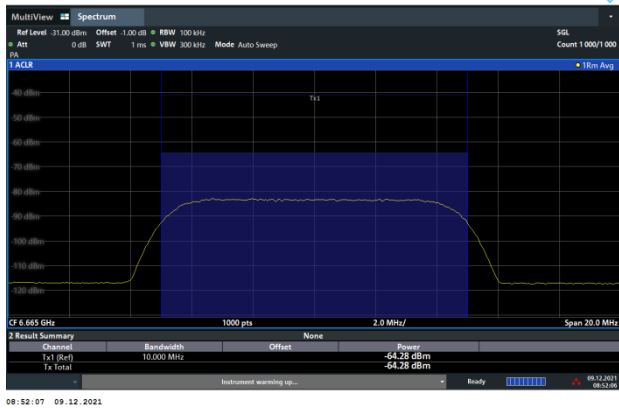


17:32:42 07.12.2021

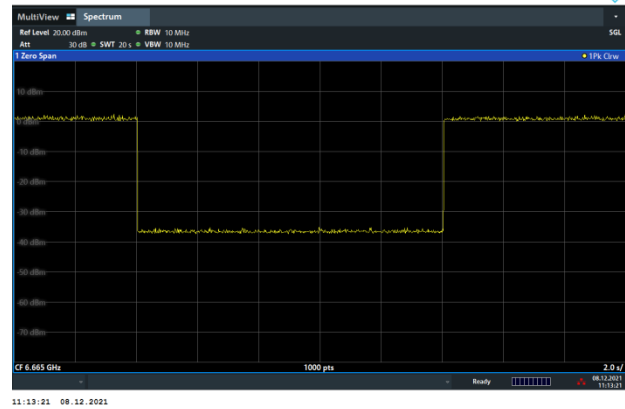
Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)
802.11ax (HE20) / 6695MHz
Threshold Level (TL) = -68.89dBm/MHz

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

802.11ax (HE160) / 6590MHz (Lower edge)
Threshold Level (TL) = -68.59dBm/MHz

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




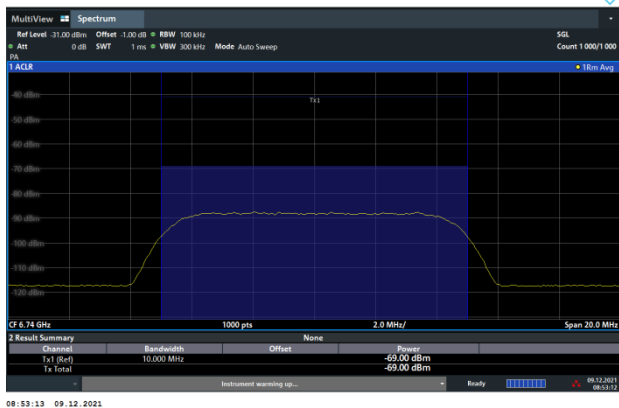
802.11ax (HE160) / 6665MHz (Middle)
Threshold Level (TL) = -64.28dBm/MHz



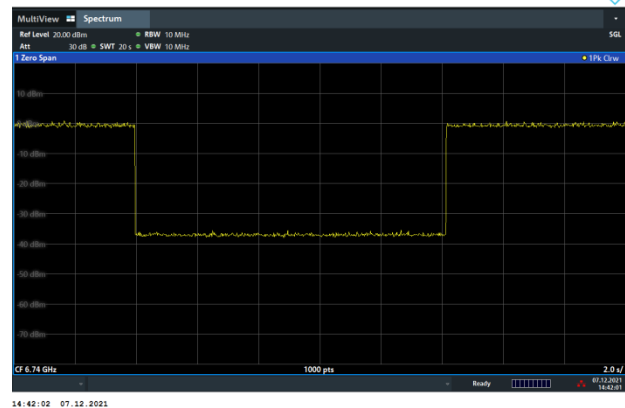
802.11ax (HE160) / CH143 (Middle)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6740MHz (Upper edge)
Threshold Level (TL) = -69dBm/MHz



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

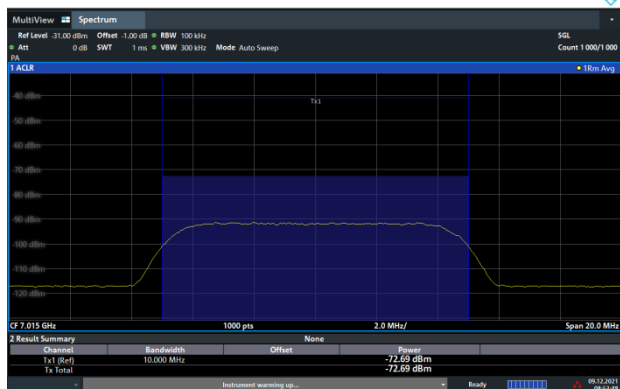




Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

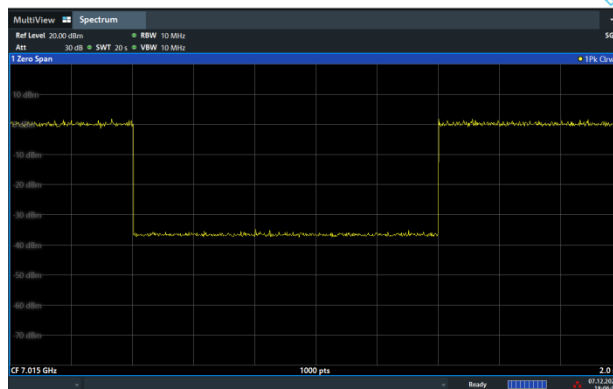
802.11ax (HE20) / 7015MHz

Threshold Level (TL) = -72.69dBm/MHz



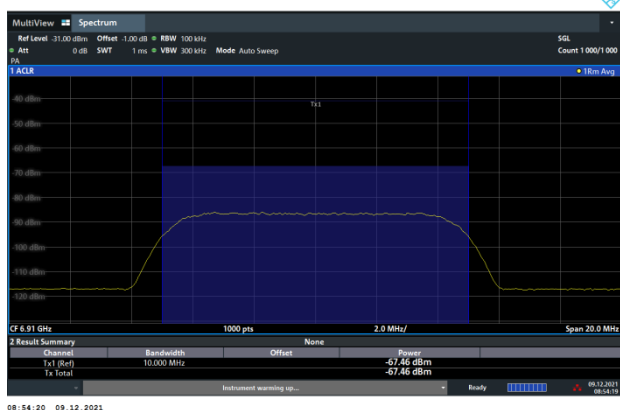
802.11ax (HE20) / CH213

Test result is pass due to no transmission occur.



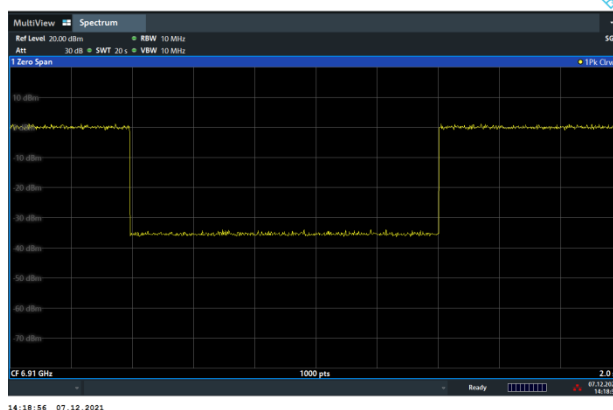
802.11ax (HE160) / 6910MHz (Lower edge)

Threshold Level (TL) = -67.46dBm/MHz



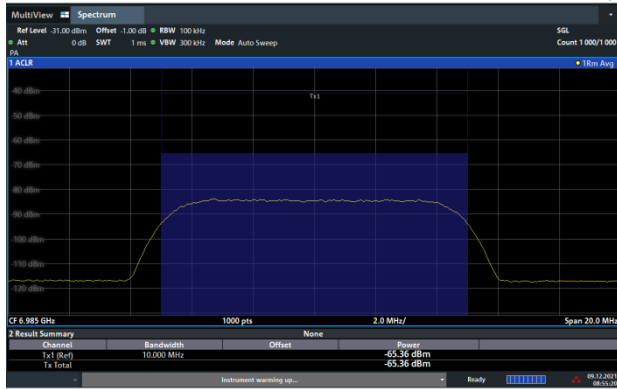
802.11ax (HE160) / CH207 (Lower edge)

Test result is pass due to no transmission occur.



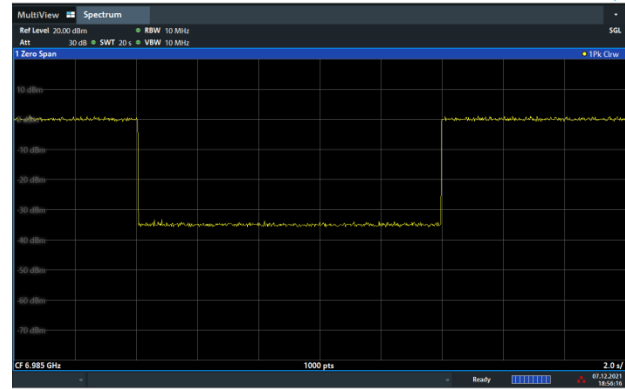


802.11ax (HE160) / 6985MHz (Middle)
Threshold Level (TL) = -65.36dBm/MHz



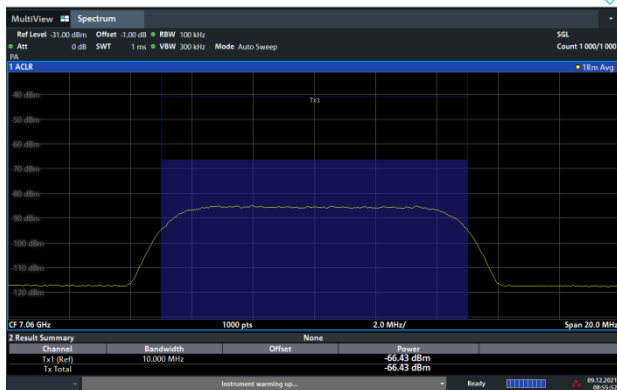
08:55:20 09.12.2021

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



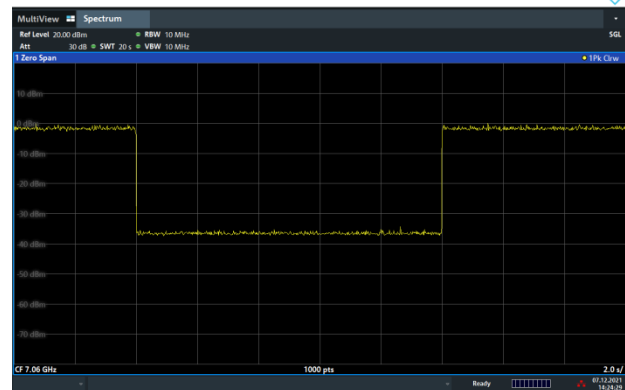
18:56:16 07.12.2021

802.11ax (HE160) / 7060MHz (Upper edge)
Threshold Level (TL) = -66.43dBm/MHz



08:55:53 09.12.2021

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



14:24:30 07.12.2021

3.6 Unwanted Emissions Measurement

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

3.6.1 Limit of Unwanted Emissions

- (1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

According 987594 D02 U-NII 6GHz EMC Measurement v01 section G:

Unwanted emissions outside of restricted bands are measured with a RMS detector.

In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

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

3.6.2 Measuring Instruments

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

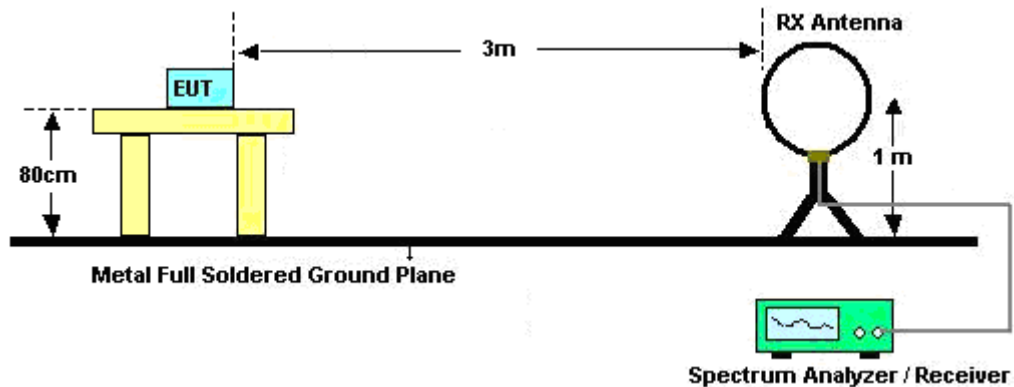
3.6.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".

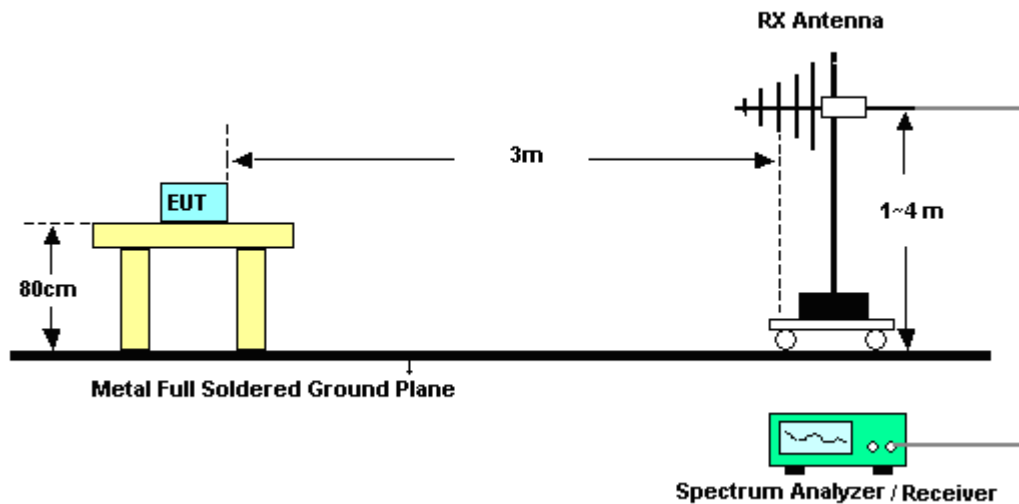
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with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

3.6.4 Test Setup

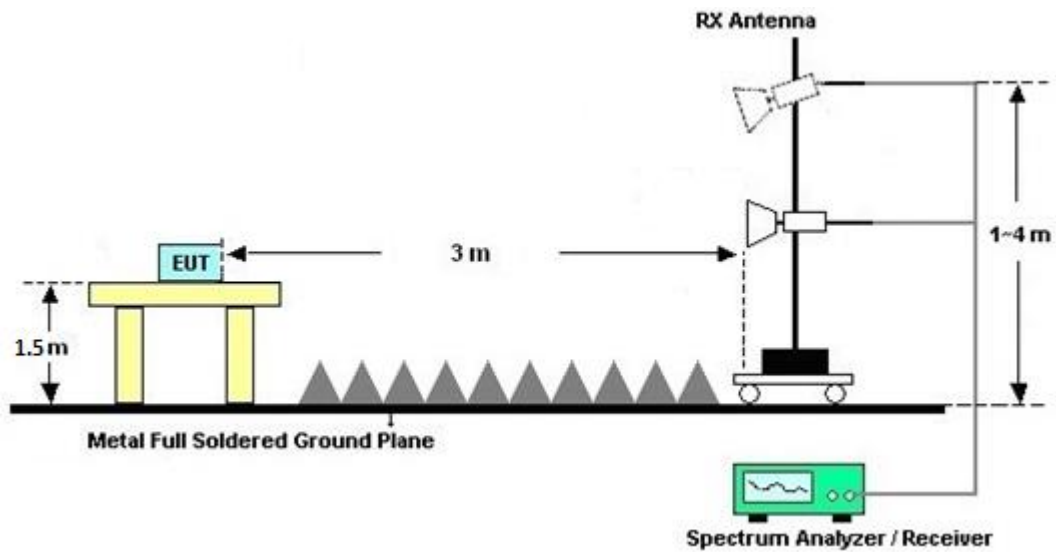
For radiated emissions below 30MHz



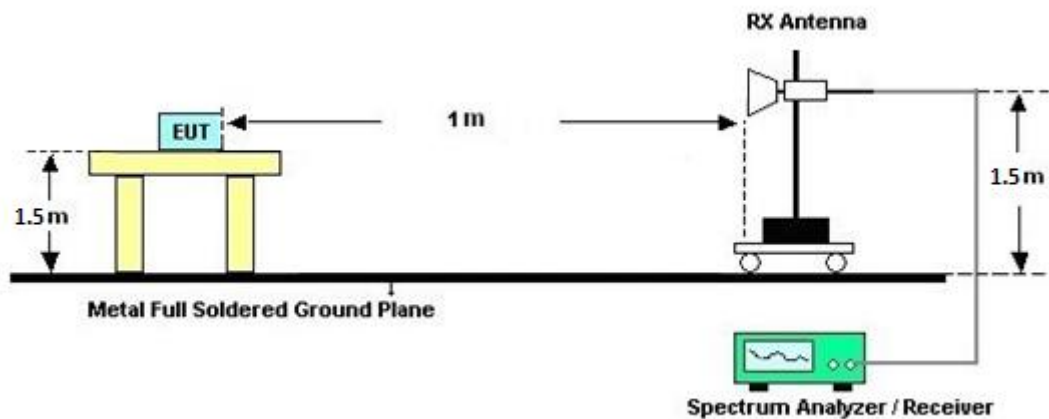
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.6.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.6.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.7 AC Conducted Emission Measurement

3.7.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

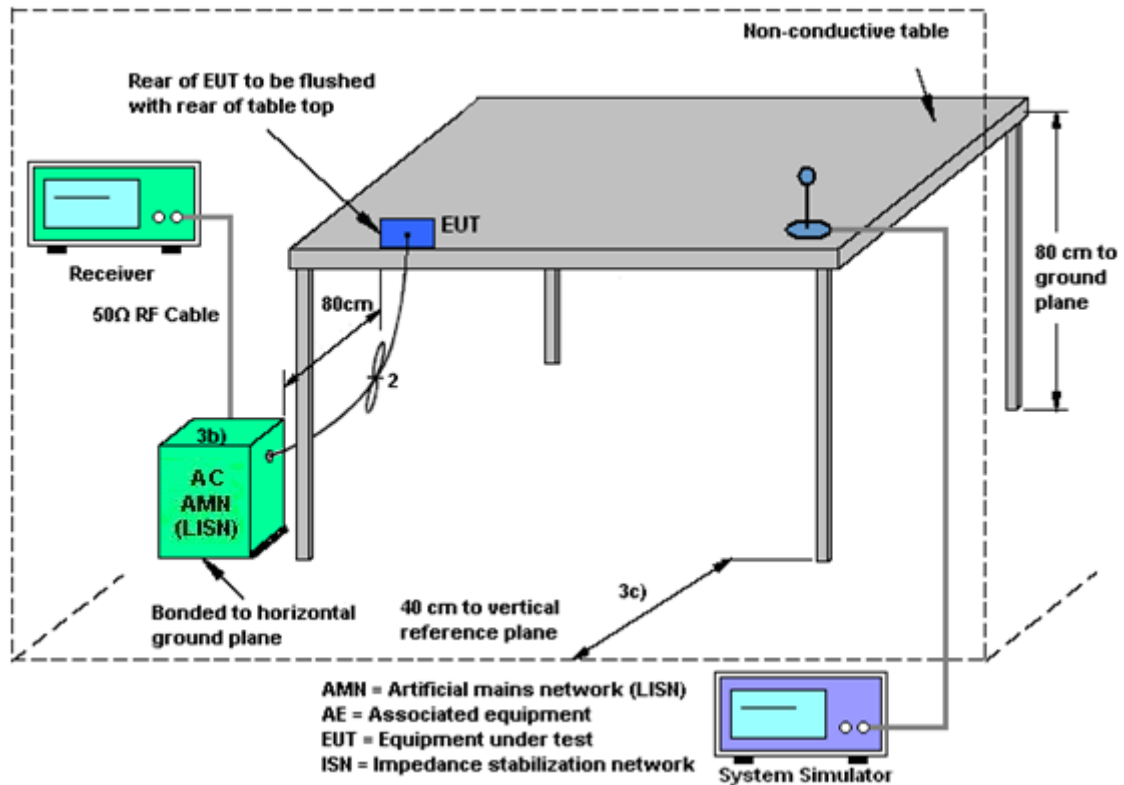
3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.7.4 Test Setup



3.7.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.8 Antenna Requirements

3.8.1 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.2 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

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

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

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

The directional gain "DG" is calculated as following table.

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

where

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

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

N_{ANT} = the total number of antennas

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

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

			DG	DG
			for	for
	Ant. 4	Ant. 5	Power	PSD
	(dBi)	(dBi)	(dBi)	(dBi)
5925 MHz ~ 6425 MHz	-2.20	-2.20	-2.20	0.81
6425 MHz ~ 6525 MHz	-2.20	0.00	0.00	1.98
6525 MHz ~ 6875 MHz	-2.20	0.00	0.00	1.98
6875 MHz ~ 7125 MHz	0.00	-3.20	0.00	1.56

Calculation example:

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

$$10 \times \log \left\{ \left[10^{(-2.2 \text{ dBi} / 20)} + 10^{(-2.2 \text{ dBi} / 20)} \right]^2 / 2 \right\}$$

$$= 0.81 \text{ dBi}$$



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Nov. 20, 2021~ Dec. 05, 2021	Jan. 03, 2022	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	41912 & 05	30MHz~1GHz	Feb. 08, 2021	Nov. 20, 2021~ Dec. 05, 2021	Feb. 07, 2022	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 28, 2020	Nov. 20, 2021~ Dec. 05, 2021	Dec. 27, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Oct. 25, 2021	Nov. 20, 2021~ Dec. 05, 2021	Oct. 24, 2022	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00991	18GHz~40GHz	May 12, 2021	Nov. 20, 2021~ Dec. 05, 2021	May 11, 2022	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-30 3	17100018000 55006	1GHz~18GHz	May 06, 2021	Nov. 20, 2021~ Dec. 05, 2021	May 05, 2022	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 19, 2021	Nov. 20, 2021~ Dec. 05, 2021	Aug. 18, 2022	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060801	18-40GHz	Jun. 22, 2021	Nov. 20, 2021~ Dec. 05, 2021	Jun. 21, 2022	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 15, 2021	Nov. 20, 2021~ Dec. 05, 2021	Jul. 14, 2022	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	May 07, 2021	Nov. 20, 2021~ Dec. 05, 2021	May 06, 2022	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Nov. 20, 2021~ Dec. 05, 2021	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Nov. 20, 2021~ Dec. 05, 2021	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24 (k5)	RK-000451	N/A	N/A	Nov. 20, 2021~ Dec. 05, 2021	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY36980/4, MY9838/4PE, 508405/2E	30MHz~18G	Nov. 15, 2021	Nov. 20, 2021~ Dec. 05, 2021	Nov. 14, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 22, 2021	Nov. 20, 2021~ Dec. 05, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 22, 2021	Nov. 20, 2021~ Dec. 05, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Nov. 20, 2021~ Dec. 05, 2021	Mar. 10, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WLJ4-1000-15 30-6000-40ST	SN4	1.53GHz Low Pass Filter	Jul. 02, 2021	Nov. 20, 2021~ Dec. 05, 2021	Jul. 01, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN6	6.75GHz High Pass Filter	Jun. 30, 2021	Nov. 20, 2021~ Dec. 05, 2021	Jun. 29, 2022	Radiation (03CH15-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	TR-32	HE17XB2468	N/A	Mar. 09, 2021	Oct. 22, 2021~ Dec. 03, 2021	Mar. 08, 2022	Conducted (TH05-HY)
USB Power Meter	DARE	RPR3006W #010	RPR6W-2101 001(NO:206)	10MHz~8GHz	Feb. 03, 2021	Oct. 22, 2021~ Dec. 03, 2021	Feb. 02, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz~40GHz	Aug. 30, 2021	Oct. 22, 2021~ Dec. 03, 2021	Aug. 29, 2022	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302 (Box9)	N/A	Mar. 17, 2021	Oct. 22, 2021~ Dec. 03, 2021	Mar. 16, 2022	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 02, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Oct. 21, 2021	Dec. 02, 2021	Oct. 20, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	Dec. 02, 2021	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2021	Dec. 02, 2021	Nov. 15, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Dec. 02, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 28, 2021	Dec. 02, 2021	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Dec. 02, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Signal Generator (Interferer)	Rohde & Schwarz	SMW200A	109425	100kHz~7.5GHz	Jan. 11, 2021	Dec. 07, 2021~ Dec. 09, 2021	Jan. 10, 2022	CBP (DF02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	Apr. 20, 2021	Dec. 07, 2021~ Dec. 09, 2021	Apr. 19, 2022	CBP (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A 1	0.5GHz~18GHz	Calibration from System	Dec. 07, 2021~ Dec. 09, 2021	Calibration from System	CBP (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A 2	0.5GHz~18GHz	Calibration from System	Dec. 07, 2021~ Dec. 09, 2021	Calibration from System	CBP (DF02-HY)
Coupler	Woken	10dB 30W SMA	DOM5CIW3A 1	0.5-18GHz	Calibration from System	Dec. 07, 2021~ Dec. 09, 2021	Calibration from System	CBP (DF02-HY)
Power Divider	Woken	3Way SMA Power Divder Rated to 20W	STI08-0010 (#2)	2GHz~8GHz	Calibration from System	Dec. 07, 2021~ Dec. 09, 2021	Calibration from System	CBP (DF02-HY)

5 Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.6 dB
---	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu	Temperature:	22.8~24.3	°C
Test Date:	2021/10/22~2021/12/3	Relative Humidity:	48.6~52.5	%

TEST RESULTS DATA
26dB and 99% OBW

Band V MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 4	Ant 5	Ant 4	Ant 5	
11a	6Mbps	2	5955	16.58	16.58	19.80	20.75	
11a	6Mbps	2	6195	16.53	16.53	19.80	20.08	
11a	6Mbps	2	6415	16.58	16.48	20.15	20.53	

TEST RESULTS DATA
EIRP Power Table

FCC Band V MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 4	Ant 5	SUM	Ant 4	Ant 5	SUM		
11a	6Mbps	2	5955	5.77	4.77	8.31	-2.20		6.11	24.00	Pass
11a	6Mbps	2	6195	6.37	4.07	8.38	-2.20		6.18	24.00	Pass
11a	6Mbps	2	6415	5.67	4.87	8.30	-2.20		6.10	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band V 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 4	Ant 5	SUM	Ant 4	Ant 5	SUM		
11a	6Mbps	2	5955				-1.92	0.81	-1.11	-1.00	Pass
11a	6Mbps	2	6195				-1.87	0.81	-1.06	-1.00	Pass
11a	6Mbps	2	6415				-1.82	0.81	-1.01	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band VI MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 4	Ant 5	Ant 4	Ant 5	
11a	6Mbps	2	6435	16.68	16.58	20.45	20.53	
11a	6Mbps	2	6475	16.63	16.53	20.35	20.20	
11a	6Mbps	2	6515	16.63	16.58	20.73	20.50	

TEST RESULTS DATA
EIRP Power Table

FCC Band VI MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 4	Ant 5	SUM	Ant 4	Ant 5			
11a	6Mbps	2	6435	3.97	2.87	6.47	0.00		6.47	24.00	Pass
11a	6Mbps	2	6475	4.07	3.57	6.84	0.00		6.84	24.00	Pass
11a	6Mbps	2	6515	3.97	3.07	6.55	0.00		6.55	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VI 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 4	Ant 5	SUM	Ant 4	Ant 5	SUM		
11a	6Mbps	2	6435				-3.40	1.98	-1.42	-1.00	Pass
11a	6Mbps	2	6475				-3.16	1.98	-1.18	-1.00	Pass
11a	6Mbps	2	6515				-3.37	1.98	-1.39	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band VII MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 4	Ant 5	Ant 4	Ant 5	
11a	6Mbps	2	6535	16.63	16.63	20.25	20.45	
11a	6Mbps	2	6695	16.73	16.58	21.25	20.18	
11a	6Mbps	2	6855	16.68	16.58	20.95	20.35	

Band VII straddle channel MIMO														
Mod.	Data Rate	NTx	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
				Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	
11a	6Mbps	2	6875	16.73	16.53	20.63	20.18	-		-		-		

TEST RESULTS DATA
EIRP Power Table

FCC Band VII MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 4	Ant 5	SUM	Ant 4	Ant 5			
11a	6Mbps	2	6535	3.97	2.87	6.47	0.00		6.47	24.00	Pass
11a	6Mbps	2	6695	3.77	3.97	6.88	0.00		6.88	24.00	Pass
11a	6Mbps	2	6855	4.07	4.47	7.28	0.00		7.28	24.00	Pass

FCC Band VII straddle channel MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 4	Ant 5	SUM	Ant 4	Ant 5	SUM		
11a	6Mbps	2	6875	4.07	4.47	7.28	0.00		7.28	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VII 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 4	Ant 5	SUM	Ant 4	Ant 5	SUM		
11a	6Mbps	2	6535				-3.43	1.98	-1.45	-1.00	Pass
11a	6Mbps	2	6695				-3.33	1.98	-1.35	-1.00	Pass
11a	6Mbps	2	6855				-3.15	1.98	-1.17	-1.00	Pass

FCC Band VII straddle channel 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 4	Ant 5	SUM	Ant 4	Ant 5	SUM		
11a	6Mbps	2	6875				-3.15	1.98	-1.17	-1.00	Pass

TEST RESULTS DATA
26dB EBW and 99% OBW

Band VIII MIMO								
Mod.	Data Rate	NTx	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 4	Ant 5	Ant 4	Ant 5	
11a	6Mbps	2	6895	16.73	16.53	20.28	20.40	
11a	6Mbps	2	6995	16.63	16.53	20.00	19.63	
11a	6Mbps	2	7115	16.53	16.43	19.90	19.60	

TEST RESULTS DATA
EIRP Power Table

FCC Band VIII MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 4	Ant 5	SUM	Ant 4	Ant 5			
11a	6Mbps	2	6895	4.37	4.87	7.64	0.00		7.64	24.00	Pass
11a	6Mbps	2	6995	3.87	4.97	7.47	0.00		7.47	24.00	Pass
11a	6Mbps	2	7115	3.67	4.57	7.15	0.00		7.15	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VIII 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 4	Ant 5	SUM	Ant 4	Ant 5	SUM		
11a	6Mbps	2	6895				-2.66	1.56	-1.10	-1.00	Pass
11a	6Mbps	2	6995				-2.60	1.56	-1.04	-1.00	Pass
11a	6Mbps	2	7115				-2.64	1.56	-1.08	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band V MIMO									
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 4	Ant 5	Ant 4	Ant 5	
HE20	MCS0	2	5955	Full	18.98	18.93	21.73	21.33	
HE20	MCS0	2	6195	Full	18.98	18.98	21.40	21.13	
HE20	MCS0	2	6415	Full	18.98	18.98	21.70	21.93	
HE40	MCS0	2	5965	Full	38.06	37.96	40.46	40.46	
HE40	MCS0	2	6205	Full	37.96	37.96	40.50	40.32	
HE40	MCS0	2	6405	Full	38.06	38.06	40.28	40.50	
HE80	MCS0	2	5985	Full	77.20	77.20	82.80	83.36	
HE80	MCS0	2	6225	Full	77.20	77.20	82.88	82.64	
HE80	MCS0	2	6385	Full	77.32	77.32	83.20	82.80	
HE160	MCS0	2	6025	Full	156.08	156.32	165.28	165.28	
HE160	MCS0	2	6185	Full	156.08	156.32	165.28	165.76	
HE160	MCS0	2	6345	Full	156.32	156.08	166.24	166.24	

TEST RESULTS DATA
EIRP Power Table

FCC Band V MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 4	Ant 5	SUM	Ant 4	Ant 5			
HE20	MCS0	2	5955	Full	5.77	4.67	8.27	-2.20		6.07	24.00	Pass
HE20	MCS0	2	5955	26/0	-2.73	-5.33	-0.83	-2.20		-3.03	24.00	Pass
HE20	MCS0	2	6195	Full	6.37	3.97	8.34	-2.20		6.14	24.00	Pass
HE20	MCS0	2	6195	26/4	-1.63	-4.33	0.24	-2.20		-1.96	24.00	Pass
HE20	MCS0	2	6415	Full	5.57	4.77	8.20	-2.20		6.00	24.00	Pass
HE20	MCS0	2	6415	26/8	-2.93	-5.53	-1.03	-2.20		-3.23	24.00	Pass
HE40	MCS0	2	5965	Full	8.57	8.27	11.43	-2.20		9.23	24.00	Pass
HE40	MCS0	2	6205	Full	8.87	7.27	11.15	-2.20		8.95	24.00	Pass
HE40	MCS0	2	6405	Full	8.87	7.37	11.19	-2.20		8.99	24.00	Pass
HE80	MCS0	2	5985	Full	11.57	10.47	14.07	-2.20		11.87	24.00	Pass
HE80	MCS0	2	6225	Full	11.97	10.37	14.25	-2.20		12.05	24.00	Pass
HE80	MCS0	2	6385	Full	11.47	10.17	13.88	-2.20		11.68	24.00	Pass
HE160	MCS0	2	6025	Full	14.37	13.07	16.78	-2.20		14.58	24.00	Pass
HE160	MCS0	2	6185	Full	14.77	12.47	16.78	-2.20		14.58	24.00	Pass
HE160	MCS0	2	6345	Full	14.67	12.17	16.61	-2.20		14.41	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band V MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 5	SUM	Ant 4	Ant 5			
HE20	MCS0	2	5955	Full		-2.29	0.81	-1.48	-1.00	Pass		
HE20	MCS0	2	5955	26/0		-2.45	0.81	-1.63	-1.00	Pass		
HE20	MCS0	2	6195	Full		-1.98	0.81	-1.16	-1.00	Pass		
HE20	MCS0	2	6195	26/4		-2.38	0.81	-1.57	-1.00	Pass		
HE20	MCS0	2	6415	Full		-2.05	0.81	-1.24	-1.00	Pass		
HE20	MCS0	2	6415	26/8		-2.37	0.81	-1.56	-1.00	Pass		
HE40	MCS0	2	5965	Full		-1.97	0.81	-1.16	-1.00	Pass		
HE40	MCS0	2	6205	Full		-2.15	0.81	-1.34	-1.00	Pass		
HE40	MCS0	2	6405	Full		-1.88	0.81	-1.07	-1.00	Pass		
HE80	MCS0	2	5985	Full		-2.12	0.81	-1.31	-1.00	Pass		
HE80	MCS0	2	6225	Full		-1.95	0.81	-1.14	-1.00	Pass		
HE80	MCS0	2	6385	Full		-1.96	0.81	-1.15	-1.00	Pass		
HE160	MCS0	2	6025	Full		-2.19	0.81	-1.38	-1.00	Pass		
HE160	MCS0	2	6185	Full		-1.95	0.81	-1.14	-1.00	Pass		
HE160	MCS0	2	6345	Full		-1.96	0.81	-1.15	-1.00	Pass		

TEST RESULTS DATA
26dB and 99% OBW

Band VI MIMO									
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 4	Ant 5	Ant 4	Ant 5	
HE20	MCS0	2	6435	Full	19.03	19.03	21.35	21.48	
HE20	MCS0	2	6475	Full	18.93	19.03	21.65	21.30	
HE20	MCS0	2	6515	Full	18.98	19.03	21.58	21.55	
HE40	MCS0	2	6445	Full	38.16	38.16	40.46	40.41	
HE40	MCS0	2	6485	Full	38.16	38.26	40.59	40.37	
HE80	MCS0	2	6465	Full	77.20	77.32	83.36	83.52	

Band VI straddle channel MIMO															
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	
HE40	MCS0	2	6525	Full	38.06	38.16	40.46	40.41	-	-	-	-	-	-	
HE80	MCS0	2	6545	Full	77.32	77.32	82.88	83.52	-	-	-	-	-	-	
HE160	MCS0	2	6505	Full	156.08	156.32	167.20	165.76	-	-	-	-	-	-	

TEST RESULTS DATA
EIRP Power Table

FCC Band VI MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 4	Ant 5	SUM	Ant 4	Ant 5	SUM		
HE20	MCS0	2	6435	Full	4.17	3.77	6.98	0.00		6.98	24.00	Pass
HE20	MCS0	2	6435	26/0	-3.53	-6.43	-1.73	0.00		-1.73	24.00	Pass
HE20	MCS0	2	6475	Full	3.87	3.57	6.73	0.00		6.73	24.00	Pass
HE20	MCS0	2	6475	26/4	-3.23	-5.33	-1.14	0.00		-1.14	24.00	Pass
HE20	MCS0	2	6515	Full	3.87	3.07	6.50	0.00		6.50	24.00	Pass
HE20	MCS0	2	6515	26/8	-4.23	-6.63	-2.26	0.00		-2.26	24.00	Pass
HE40	MCS0	2	6445	Full	7.07	6.77	9.93	0.00		9.93	24.00	Pass
HE40	MCS0	2	6485	Full	6.67	6.57	9.63	0.00		9.63	24.00	Pass
HE80	MCS0	2	6465	Full	10.27	8.97	12.68	0.00		12.68	24.00	Pass

FCC Band VI straddle channel MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 4	Ant 5	SUM	Ant 4	Ant 5			
HE40	MCS0	2	6525	Full	6.87	6.47	9.68	0.00		9.68	24.00	Pass
HE80	MCS0	2	6545	Full	10.07	8.47	12.35	0.00		12.35	24.00	Pass
HE160	MCS0	2	6505	Full	12.97	11.77	15.42	0.00		15.42	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

Band VI MIMO												
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 5	SUM	Ant 4	Ant 5			
HE20	MCS0	2	6435	Full			-3.11	1.98		-1.13	-1.00	Pass
HE20	MCS0	2	6435	26/0			-3.44	1.98		-1.46	-1.00	Pass
HE20	MCS0	2	6475	Full			-3.19	1.98		-1.21	-1.00	Pass
HE20	MCS0	2	6475	26/4			-3.54	1.98		-1.56	-1.00	Pass
HE20	MCS0	2	6515	Full			-3.46	1.98		-1.48	-1.00	Pass
HE20	MCS0	2	6515	26/8			-3.80	1.98		-1.82	-1.00	Pass
HE40	MCS0	2	6445	Full			-3.10	1.98		-1.12	-1.00	Pass
HE40	MCS0	2	6485	Full			-3.17	1.98		-1.19	-1.00	Pass
HE80	MCS0	2	6465	Full			-3.14	1.98		-1.16	-1.00	Pass

FCC Band VI straddle channel MIMO												
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 5	SUM	Ant 4	Ant 5			
HE40	MCS0	2	6525	Full			-3.35	1.98		-1.37	-1.00	Pass
HE80	MCS0	2	6545	Full			-3.40	1.98		-1.42	-1.00	Pass
HE160	MCS0	2	6505	Full			-3.12	1.98		-1.14	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band VII MIMO									
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 4	Ant 5	Ant 4	Ant 5	
HE20	MCS0	2	6535	Full	18.93	19.03	21.60	21.58	
HE20	MCS0	2	6695	Full	18.98	19.03	21.53	21.45	
HE20	MCS0	2	6855	Full	18.98	18.98	21.73	21.65	
HE40	MCS0	2	6565	Full	38.06	38.16	40.77	40.59	
HE40	MCS0	2	6685	Full	38.06	38.16	40.50	40.46	
HE40	MCS0	2	6845	Full	38.16	38.16	40.23	40.50	
HE80	MCS0	2	6625	Full	77.20	77.32	82.08	83.28	
HE80	MCS0	2	6705	Full	77.32	77.32	82.96	82.56	
HE80	MCS0	2	6785	Full	77.20	77.32	83.52	82.64	
HE160	MCS0	2	6665	Full	156.08	156.56	166.24	164.64	
HE160	MCS0	2	6825	Full	156.32	156.32	167.20	166.56	

Band VII straddle channel MIMO															
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	
HE20	MCS0	2	6875	Full	18.98	19.03	21.30	21.58	-	-	-	-	-	-	
HE40	MCS0	2	6885	Full	38.16	38.16	41.04	40.41	-	-	-	-	-	-	
HE80	MCS0	2	6865	Full	77.32	77.44	82.64	82.72	-	-	-	-	-	-	

TEST RESULTS DATA
EIRP Power Table

FCC Band VII MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 4	Ant 5	SUM	Ant 4	Ant 5			
HE20	MCS0	2	6535	Full	3.87	2.87	6.41	0.00		6.41	24.00	Pass
HE20	MCS0	2	6535	26/0	-3.93	-6.33	-1.96	0.00		-1.96	24.00	Pass
HE20	MCS0	2	6695	Full	4.07	4.17	7.13	0.00		7.13	24.00	Pass
HE20	MCS0	2	6695	26/4	-3.13	-5.33	-1.08	0.00		-1.08	24.00	Pass
HE20	MCS0	2	6855	Full	3.97	4.37	7.18	0.00		7.18	24.00	Pass
HE20	MCS0	2	6855	26/8	-3.93	-5.53	-1.65	0.00		-1.65	24.00	Pass
HE40	MCS0	2	6565	Full	6.67	7.17	9.94	0.00		9.94	24.00	Pass
HE40	MCS0	2	6685	Full	6.47	6.67	9.58	0.00		9.58	24.00	Pass
HE40	MCS0	2	6845	Full	6.97	7.17	10.08	0.00		10.08	24.00	Pass
HE80	MCS0	2	6625	Full	9.97	9.77	12.88	0.00		12.88	24.00	Pass
HE80	MCS0	2	6705	Full	10.17	9.87	13.03	0.00		13.03	24.00	Pass
HE80	MCS0	2	6785	Full	10.17	9.87	13.03	0.00		13.03	24.00	Pass
HE160	MCS0	2	6665	Full	12.97	11.17	15.17	0.00		15.17	24.00	Pass
HE160	MCS0	2	6825	Full	13.27	11.67	15.55	0.00		15.55	24.00	Pass

FCC Band VII straddle channel MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 4	Ant 5	SUM	Ant 4	Ant 5			
HE20	MCS0	2	6875	Full	4.57	4.67	7.63	0.00		7.63	24.00	Pass
HE20	MCS0	2	6875	26/8	-3.63	-5.03	-1.26	0.00		-1.26	24.00	Pass
HE40	MCS0	2	6885	Full	7.57	7.17	10.38	0.00		10.38	24.00	Pass
HE80	MCS0	2	6865	Full	10.67	9.07	12.95	0.00		12.95	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VII MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 5	SUM	Ant 4	Ant 5			
HE20	MCS0	2	6535	Full			-3.44	1.98		-1.46	-1.00	Pass
HE20	MCS0	2	6535	26/0			-3.66	1.98		-1.68	-1.00	Pass
HE20	MCS0	2	6695	Full			-3.13	1.98		-1.15	-1.00	Pass
HE20	MCS0	2	6695	26/4			-3.55	1.98		-1.57	-1.00	Pass
HE20	MCS0	2	6855	Full			-3.38	1.98		-1.40	-1.00	Pass
HE20	MCS0	2	6855	26/8			-3.53	1.98		-1.55	-1.00	Pass
HE40	MCS0	2	6565	Full			-3.27	1.98		-1.29	-1.00	Pass
HE40	MCS0	2	6685	Full			-3.51	1.98		-1.53	-1.00	Pass
HE40	MCS0	2	6845	Full			-3.30	1.98		-1.32	-1.00	Pass
HE80	MCS0	2	6625	Full			-3.06	1.98		-1.08	-1.00	Pass
HE80	MCS0	2	6705	Full			-3.02	1.98		-1.04	-1.00	Pass
HE80	MCS0	2	6785	Full			-3.19	1.98		-1.21	-1.00	Pass
HE160	MCS0	2	6665	Full			-3.42	1.98		-1.44	-1.00	Pass
HE160	MCS0	2	6825	Full			-3.21	1.98		-1.23	-1.00	Pass

FCC Band VII straddle channel MIMO												
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 5	SUM	Ant 4	Ant 5	SUM		
HE20	MCS0	2	6875	Full			-3.07	1.98	-1.09	-1.00	Pass	
HE20	MCS0	2	6875	26/8			-3.30	1.98	-1.32	-1.00	Pass	
HE40	MCS0	2	6885	Full			-3.03	1.98	-1.05	-1.00	Pass	
HE80	MCS0	2	6865	Full			-3.26	1.98	-1.28	-1.00	Pass	

TEST RESULTS DATA
26dB EBW and 99% OBW

Band VIII MIMO									
Mod.	Data Rate	NTx	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 4	Ant 5	Ant 4	Ant 5	
HE20	MCS0	2	6895	Full	18.98	18.98	21.88	21.38	
HE20	MCS0	2	6995	Full	18.98	18.98	21.58	20.95	
HE20	MCS0	2	7095	Full	18.93	18.93	21.43	21.33	
HE20	MCS0	2	7115	Full	18.93	18.88	21.40	21.05	
HE40	MCS0	2	6925	Full	38.06	38.16	40.77	40.41	
HE40	MCS0	2	7005	Full	37.96	38.06	41.22	40.28	
HE40	MCS0	2	7085	Full	37.96	38.06	40.86	40.41	
HE80	MCS0	2	6945	Full	77.08	77.32	83.44	82.56	
HE80	MCS0	2	7025	Full	77.08	77.20	83.28	82.00	
HE160	MCS0	2	6985	Full	156.32	155.60	165.76	165.44	

TEST RESULTS DATA
EIRP Power Table

Band VIII MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 4	Ant 5	SUM	Ant 4	Ant 5			
HE20	MCS0	2	6895	Full	4.27	4.87	7.59	0.00		7.59	24.00	Pass
HE20	MCS0	2	6895	26/0	-3.53	-5.53	-1.41	0.00		-1.41	24.00	Pass
HE20	MCS0	2	6995	Full	4.17	5.27	7.77	0.00		7.77	24.00	Pass
HE20	MCS0	2	6995	26/4	-2.83	-4.23	-0.46	0.00		-0.46	24.00	Pass
HE20	MCS0	2	7095	Full	4.27	4.87	7.59	0.00		7.59	24.00	Pass
HE20	MCS0	2	7095	26/8	-3.23	-4.63	-0.86	0.00		-0.86	24.00	Pass
HE20	MCS0	2	7115	Full	-3.23	-5.03	-1.03	0.00		-1.03	24.00	Pass
HE20	MCS0	2	7115	26/8	-12.43	-13.63	-9.98	0.00		-9.98	24.00	Pass
HE40	MCS0	2	6925	Full	7.17	7.27	10.23	0.00		10.23	24.00	Pass
HE40	MCS0	2	7005	Full	6.97	6.97	9.98	0.00		9.98	24.00	Pass
HE40	MCS0	2	7085	Full	7.07	7.07	10.08	0.00		10.08	24.00	Pass
HE80	MCS0	2	6945	Full	10.37	10.37	13.38	0.00		13.38	24.00	Pass
HE80	MCS0	2	7025	Full	10.57	9.57	13.11	0.00		13.11	24.00	Pass
HE160	MCS0	2	6985	Full	13.57	11.97	15.85	0.00		15.85	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VIII MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 4	Ant 5	SUM	Ant 4	Ant 5			
HE20	MCS0	2	6895	Full		-2.98	1.56	-1.43	-1.00	Pass		
HE20	MCS0	2	6895	26/0		-3.21	1.56	-1.65	-1.00	Pass		
HE20	MCS0	2	6995	Full		-2.86	1.56	-1.30	-1.00	Pass		
HE20	MCS0	2	6995	26/4		-3.05	1.56	-1.49	-1.00	Pass		
HE20	MCS0	2	7095	Full		-2.70	1.56	-1.14	-1.00	Pass		
HE20	MCS0	2	7095	26/8		-2.75	1.56	-1.20	-1.00	Pass		
HE20	MCS0	2	7115	Full		-11.04	1.56	-9.48	-1.00	Pass		
HE20	MCS0	2	7115	26/8		-11.31	1.56	-9.76	-1.00	Pass		
HE40	MCS0	2	6925	Full		-3.03	1.56	-1.47	-1.00	Pass		
HE40	MCS0	2	7005	Full		-2.91	1.56	-1.35	-1.00	Pass		
HE40	MCS0	2	7085	Full		-2.96	1.56	-1.41	-1.00	Pass		
HE80	MCS0	2	6945	Full		-2.94	1.56	-1.38	-1.00	Pass		
HE80	MCS0	2	7025	Full		-2.75	1.56	-1.20	-1.00	Pass		
HE160	MCS0	2	6985	Full		-2.77	1.56	-1.21	-1.00	Pass		



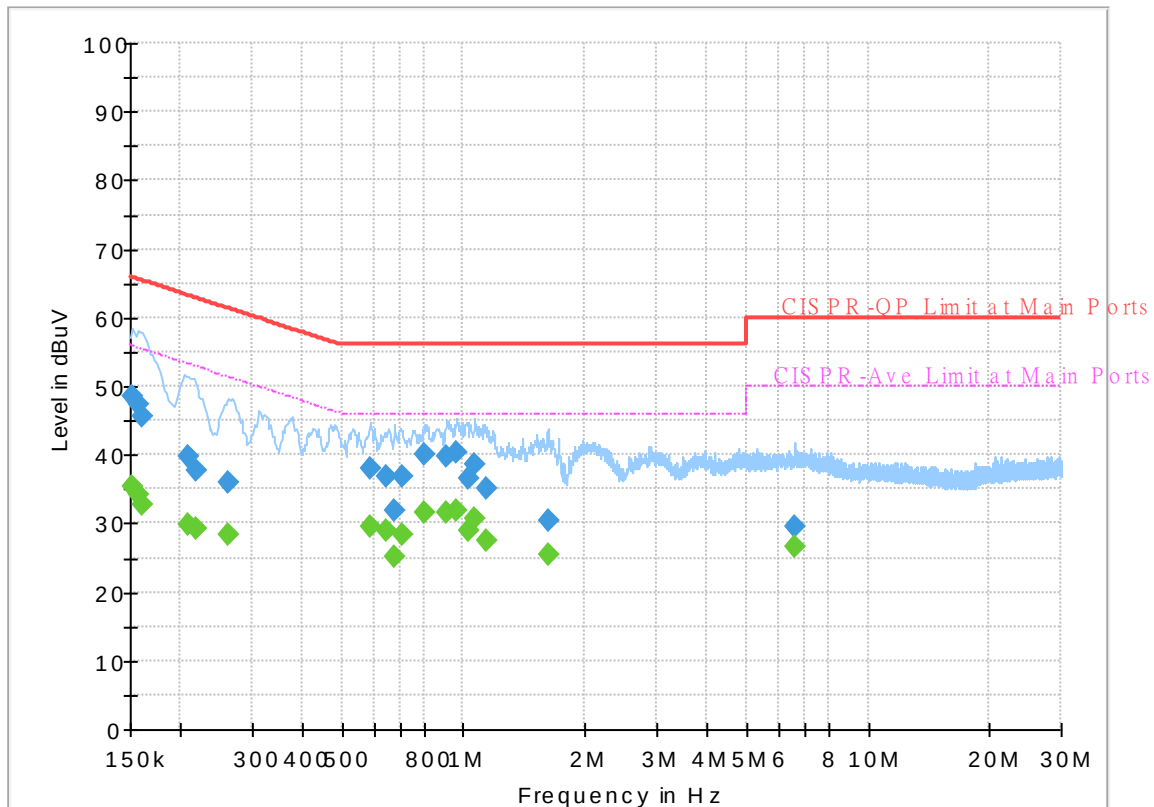
Appendix B. AC Conducted Emission Test Results

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

EUT Information

Report NO : 1O2008
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



Final Result

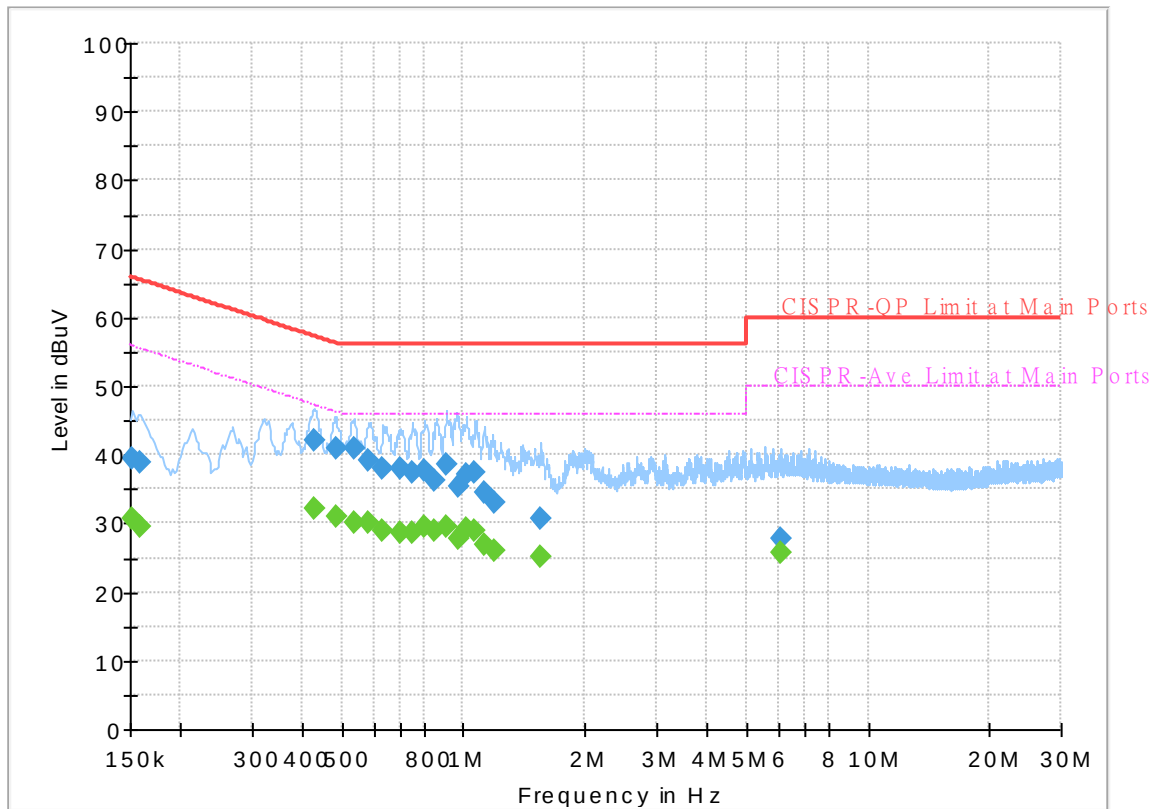
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	35.31	55.88	20.57	L1	OFF	19.6
0.152250	48.41	---	65.88	17.47	L1	OFF	19.6
0.156750	---	34.20	55.63	21.43	L1	OFF	19.6
0.156750	47.34	---	65.63	18.29	L1	OFF	19.6
0.161250	---	32.75	55.40	22.65	L1	OFF	19.6
0.161250	45.62	---	65.40	19.78	L1	OFF	19.6
0.208500	---	29.94	53.27	23.33	L1	OFF	19.6
0.208500	39.69	---	63.27	23.58	L1	OFF	19.6
0.217500	---	29.16	52.91	23.75	L1	OFF	19.6
0.217500	37.64	---	62.91	25.27	L1	OFF	19.6
0.262500	---	28.41	51.35	22.94	L1	OFF	19.6
0.262500	36.08	---	61.35	25.27	L1	OFF	19.6
0.591000	---	29.52	46.00	16.48	L1	OFF	19.8
0.591000	37.91	---	56.00	18.09	L1	OFF	19.8
0.645000	---	29.06	46.00	16.94	L1	OFF	19.9
0.645000	36.86	---	56.00	19.14	L1	OFF	19.9
0.674250	---	25.29	46.00	20.71	L1	OFF	19.9
0.674250	31.79	---	56.00	24.21	L1	OFF	19.9
0.705750	---	28.23	46.00	17.77	L1	OFF	19.9
0.705750	36.87	---	56.00	19.13	L1	OFF	19.9
0.802500	---	31.47	46.00	14.53	L1	OFF	20.0

0.802500	40.01	---	56.00	15.99	L1	OFF	20.0
0.906000	---	31.44	46.00	14.56	L1	OFF	20.1
0.906000	39.78	---	56.00	16.22	L1	OFF	20.1
0.960000	---	31.74	46.00	14.26	L1	OFF	20.1
0.960000	40.31	---	56.00	15.69	L1	OFF	20.1
1.027500	---	28.84	46.00	17.16	L1	OFF	20.1
1.027500	36.50	---	56.00	19.50	L1	OFF	20.1
1.068000	---	30.62	46.00	15.38	L1	OFF	20.1
1.068000	38.48	---	56.00	17.52	L1	OFF	20.1
1.135500	---	27.57	46.00	18.43	L1	OFF	20.1
1.135500	35.20	---	56.00	20.80	L1	OFF	20.1
1.614750	---	25.30	46.00	20.70	L1	OFF	20.1
1.614750	30.41	---	56.00	25.59	L1	OFF	20.1
6.580500	---	26.71	50.00	23.29	L1	OFF	20.0
6.580500	29.62	---	60.00	30.38	L1	OFF	20.0

EUT Information

Report NO : 1O2008
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	39.56	---	65.88	26.32	N	OFF	19.6
0.152250	---	30.60	55.88	25.28	N	OFF	19.6
0.159000	38.96	---	65.52	26.56	N	OFF	19.6
0.159000	---	29.44	55.52	26.08	N	OFF	19.6
0.426750	42.05	---	57.32	15.27	N	OFF	19.7
0.426750	---	32.23	47.32	15.09	N	OFF	19.7
0.483000	40.87	---	56.29	15.42	N	OFF	19.7
0.483000	---	30.89	46.29	15.40	N	OFF	19.7
0.534750	40.90	---	56.00	15.10	N	OFF	19.8
0.534750	---	30.14	46.00	15.86	N	OFF	19.8
0.584250	39.27	---	56.00	16.73	N	OFF	19.8
0.584250	---	30.23	46.00	15.77	N	OFF	19.8
0.633750	37.89	---	56.00	18.11	N	OFF	19.9
0.633750	---	29.08	46.00	16.92	N	OFF	19.9
0.696750	38.02	---	56.00	17.98	N	OFF	19.9
0.696750	---	28.66	46.00	17.34	N	OFF	19.9
0.748500	37.56	---	56.00	18.44	N	OFF	20.0
0.748500	---	28.77	46.00	17.23	N	OFF	20.0
0.802500	37.60	---	56.00	18.40	N	OFF	20.0
0.802500	---	29.51	46.00	16.49	N	OFF	20.0
0.852000	36.39	---	56.00	19.61	N	OFF	20.0
0.852000	---	28.99	46.00	17.01	N	OFF	20.0

0.910500	38.73	---	56.00	17.27	N	OFF	20.1
0.910500	---	29.63	46.00	16.37	N	OFF	20.1
0.973500	35.39	---	56.00	20.61	N	OFF	20.1
0.973500	---	27.77	46.00	18.23	N	OFF	20.1
1.018500	37.07	---	56.00	18.93	N	OFF	20.1
1.018500	---	29.21	46.00	16.79	N	OFF	20.1
1.070250	37.42	---	56.00	18.58	N	OFF	20.1
1.070250	---	29.00	46.00	17.00	N	OFF	20.1
1.131000	34.41	---	56.00	21.59	N	OFF	20.1
1.131000	---	26.89	46.00	19.11	N	OFF	20.1
1.189500	33.08	---	56.00	22.92	N	OFF	20.1
1.189500	---	25.97	46.00	20.03	N	OFF	20.1
1.551750	30.71	---	56.00	25.29	N	OFF	20.1
1.551750	---	25.06	46.00	20.94	N	OFF	20.1
6.060750	27.82	---	60.00	32.18	N	OFF	20.0
6.060750	---	25.82	50.00	24.18	N	OFF	20.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Lee, Mancy Chou and Bigshow Wang	Temperature :	22.1~23.5°C
		Relative Humidity :	55~65%

Band 5 - 5925~6425MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 01 5955MHz		5924.54	45.76	-42.44	88.2	40.8	32.35	10.69	38.08	279	260	P	H
		5915.3	34.67	-33.53	68.2	29.74	32.33	10.68	38.08	279	260	A	H
	*	5955	99.74	-	-	94.72	32.4	10.71	38.09	279	260	P	H
	*	5955	91.58	-	-	86.56	32.4	10.71	38.09	279	260	A	H
													H
													H
		5903.68	45.63	-42.57	88.2	40.73	32.31	10.67	38.08	356	176	P	V
		5917.12	34.57	-33.63	68.2	29.64	32.33	10.68	38.08	356	176	A	V
	*	5955	96.57	-	-	91.55	32.4	10.71	38.09	356	176	P	V
	*	5955	88.55	-	-	83.53	32.4	10.71	38.09	356	176	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 5 5925~6425MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 01 5955MHz		11910	46.68	-27.32	74	54.54	38.72	14.72	61.3	-	-	P	H
		17865	54.77	-19.23	74	47.71	46.27	18.34	57.55	-	-	P	H
		17865	44.99	-9.01	54	37.93	46.27	18.34	57.55	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11910	45.97	-28.03	74	53.83	38.72	14.72	61.3	-	-	P	V
		17865	55.39	-18.61	74	48.33	46.27	18.34	57.55	-	-	P	V
		17865	45.61	-8.39	54	38.55	46.27	18.34	57.55	-	-	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

[illegible]

[illegible]



Band 5 5925~6425MHz

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

WIFI Ant. 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 01 5955MHz		5884.5	46.23	-41.97	88.2	41.37	32.27	10.66	38.07	339	259	P	H
		5916.56	34.68	-33.52	68.2	29.75	32.33	10.68	38.08	339	259	A	H
	*	5955	100.93	-	-	95.91	32.4	10.71	38.09	339	259	P	H
	*	5955	90.77	-	-	85.75	32.4	10.71	38.09	339	259	A	H
													H
													H
		5889.4	45.91	-42.29	88.2	41.04	32.28	10.66	38.07	349	186	P	V
		5915.16	34.63	-33.57	68.2	29.7	32.33	10.68	38.08	349	186	A	V
	*	5955	97.51	-	-	92.49	32.4	10.71	38.09	349	186	P	V
	*	5955	87.45	-	-	82.43	32.4	10.71	38.09	349	186	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 5 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

[illegible]