FCC RADIO TEST REPORT

FCC ID	**:**	**A4RGQML3**
Equipment	**:**	**Phone**
Applicant	**:**	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, California, 94043 USA**
Standard	**:**	**FCC Part 15 Subpart E §15.407**

The product was received on Mar. 17, 2022 and testing was performed from Apr. 13, 2022 to Jul. 19, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR1O2843-05G	01	Initial issue of report	Jun. 10, 2022
FR1O2843-05G	02	Add 802.11a test data	Jul. 21, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i) 15.407(a)(10)	26dB Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)(8)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)(8)	Fundamental Power Spectral Density	Pass	-
3.4	15.407(b)(6)	In-Band Emissions (Channel Mask)	Pass	-
3.5	15.407(d)(6)	Contention Based Protocol	Pass	
3.6	15.407(b)	Unwanted Emissions	Pass	11.41 dB under the limit at 14496.000 MHz
3.7	15.207	AC Conducted Emission	Pass	21.28 dB under the limit at 1.484 MHz
3.8	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
   It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: William Chen

Report Producer: Ruby Zou

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Phone
FCC ID	A4RGQML3
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/NFC/GNSS/ WPC/WPT WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
S/N	Performed Test Item
23031FDH20007N	Conducted Measurement
23121FDH20002A	Radiated Spurious Emission
23121FDH20005C	Conducted Emission
23031FDH20007U	Contention Based Protocol

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	5925 MHz ~ 6425 MHz 6425 MHz ~ 6525 MHz 6525 MHz ~ 6875 MHz 6875 MHz ~ 7125 MHz
Maximum Output Power	**<5925 MHz ~ 6425 MHz>** **MIMO <Ant. 4+3>** 802.11a: 8.08 dBm / 0.0064 W 802.11ax HE20: 9.06 dBm / 0.0081 W 802.11ax HE40: 12.62 dBm / 0.0183 W 802.11ax HE80: 15.22 dBm / 0.0333 W 802.11ax HE160: 17.87 dBm / 0.0612 W **<6425 MHz ~ 6525 MHz>** **MIMO <Ant. 4+3>** 802.11a: 8.37 dBm / 0.0069 W 802.11ax HE20: 9.71 dBm / 0.0094 W 802.11ax HE40: 12.67 dBm / 0.0185 W 802.11ax HE80: 15.11 dBm / 0.0324 W 802.11ax HE160: 18.01 dBm / 0.0632 W **<6525 MHz ~ 6875 MHz>** **MIMO <Ant. 4+3>** 802.11a: 8.02 dBm / 0.0063 W 802.11ax HE20: 8.96 dBm / 0.0079 W 802.11ax HE40: 11.81 dBm / 0.0152 W 802.11ax HE80: 14.51 dBm / 0.0282 W 802.11ax HE160: 16.96 dBm / 0.0497 W **<6875 MHz ~ 7125 MHz>** **MIMO <Ant. 4+3>** 802.11a: 8.27 dBm / 0.0067 W 802.11ax HE20: 9.56 dBm / 0.0090 W 802.11ax HE40: 12.12 dBm / 0.0163 W 802.11ax HE80: 15.22 dBm / 0.0333 W 802.11ax HE160: 17.56 dBm / 0.0570 W
99% Occupied Bandwidth	**MIMO <Ant. 4>** 802.11a: 18.03 MHz 802.11ax HE20: 19.23 MHz 802.11ax HE40: 38.06 MHz 802.11ax HE80: 77.32 MHz 802.11ax HE160: 156.80 MHz **MIMO <Ant. 3>** 802.11a: 17.58 MHz 802.11ax HE20: 19.23 MHz 802.11ax HE40: 38.06 MHz 802.11ax HE80: 77.20 MHz 802.11ax HE160: 156.80 MHz

<table>
<tr><th colspan="2">Product Specification is subject to this standard</th></tr>
<tr><td>Antenna Type</td><td><5925 MHz ~ 6425 MHz>
<Ant. 4>: IFA Antenna
<Ant. 3>: Loop Antenna
<6425 MHz ~ 6525 MHz>
<Ant. 4>: IFA Antenna
<Ant. 3>: Loop Antenna
<6525 MHz ~ 6875 MHz>
<Ant. 4>: IFA Antenna
<Ant. 3>: Loop Antenna
<6875 MHz ~ 7125 MHz>
<Ant. 4>: IFA Antenna
<Ant. 3>: Loop Antenna</td></tr>
<tr><td>Antenna Gain</td><td><5925 MHz ~ 6425 MHz>
<Ant. 4>: -1.10 dBi
<Ant. 3>: -2.50 dBi
<6425 MHz ~ 6525 MHz>
<Ant. 4>: -1.10 dBi
<Ant. 3>: -2.80 dBi
<6525 MHz ~ 6875 MHz>
<Ant. 4>: 0.70 dBi
<Ant. 3>: -2.80 dBi
<6875 MHz ~ 7125 MHz>
<Ant. 4>: -0.80 dBi
<Ant. 3>: -2.40 dBi</td></tr>
<tr><td>Type of Modulation</td><td>802.11a : OFDM (BPSK/QPSK/16QAM/64QAM)
802.11ax : OFDMA
(BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)</td></tr>
<tr><td>Antenna Function Description</td><td><table><tr><td></td><td>Ant. 4</td><td>Ant. 3</td></tr><tr><td>802.11a/ax MIMO</td><td>V</td><td>V</td></tr></table></td></tr>
</table>

Remark:

1. MIMO Ant. 4+3 Directional Gain is a calculated result from MIMO Ant. 4 and MIMO Ant. 3. The formula used in calculation is documented in section 3.8.
2. Power of MIMO Ant. 4 + Ant. 3 is a calculated result from sum of the power MIMO Ant. 4 and MIMO Ant. 3.
3. The above EUT's information is declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	CO05-HY, DF02-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, 03CH16-HY (TAF Code: 3786)
Remark	The Conducted and Radiated Spurious Emissions test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

1.5 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v01
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, , the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X plane with Adapter as worst plane.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

BW 20M	**Channel**	1	5	9	13	17	21	25	29
	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	**Channel**	3		11		19		27	
	Freq. (MHz)	5965		6005		6045		6085	
BW 80M	**Channel**	7				23			
	Freq. (MHz)	5985				6065			
BW 160M	**Channel**	15							
	Freq. (MHz)	6025							

BW 20M	**Channel**	33	37	41	45	49	53	57	61
	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
BW 40M	**Channel**	35		43		51		59	
	Freq. (MHz)	6125		6165		6205		6245	
BW 80M	**Channel**	39				55			
	Freq. (MHz)	6145				6225			
BW 160M	**Channel**	47							
	Freq. (MHz)	6185							

BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
	Freq. (MHz)	6285		6325		6365		6405	
BW 80M	Channel	71				87			
	Freq. (MHz)	6305				6385			
BW 160M	Channel	79							
	Freq. (MHz)	6345							

BW 20M	Channel	97	101	105	109	113	117	121	125
	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575
BW 40M	Channel	99		107		115		123	
	Freq. (MHz)	6445		6485		6525		6565	
BW 80M	Channel	103				119			
	Freq. (MHz)	6465				6545			
BW 160M	Channel	111							
	Freq. (MHz)	6505							

BW 20M	Channel	129	133	137	141	145	149	153	157
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	131		139		147		155	
	Freq. (MHz)	6605		6645		6685		6725	
BW 80M	Channel	135				151			
	Freq. (MHz)	6625				6705			
BW 160M	Channel	143							
	Freq. (MHz)	6665							

BW 20M	Channel	161	165	169	173	177	181	185	189
	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875	6895
BW 40M	Channel	163		171		179		187	
	Freq. (MHz)	6765		6805		6845		6885	
BW 80M	Channel	167				183			
	Freq. (MHz)	6785				6865			
BW 160M	Channel	175							
	Freq. (MHz)	6825							

BW 20M	Channel	193	197	201	205	209	213	217	221
	Freq. (MHz)	6915	6935	6955	6975	6995	7015	7035	7055
BW 40M	Channel	195		203		211		219	
	Freq. (MHz)	6925		6965		7005		7045	
BW 80M	Channel	199				215			
	Freq. (MHz)	6945				7025			
BW 160M	Channel	207							
	Freq. (MHz)	6985							

BW 20M	Channel	225	229
	Freq. (MHz)	7075	7095
BW 40M	Channel	227	
	Freq. (MHz)	7085	

2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU but does not support 2x996-tone RU on 160MHz channel.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct., 2018.

The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The CDD mode is chosen as worst case configuration for all test cases due to higher power than SISO mode.

The power and PSD are verified that 802.11a can be covered by 802.11ax HE20 mode in the OFDM modulation family. Hence, the test cases for 20MHz bandwidth are all performed based on 802.11ax HE20 modes.

The final test modes consider the modulation and the worst data rates as shown in the table below.

MIMO Mode

Modulation	Data Rate
802.11a	**6Mbps**
802.11ax HE20	**MCS0**
802.11ax HE40	**MCS0**
802.11ax HE80	**MCS0**
802.11ax HE160	**MCS0**

Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + WLAN (6GHz) Link + Bluetooth Link + USB Cable 1 (Charging from AC Adapter 2)

Remark:
1. For Radiated Test Cases, the tests were performed with Adapter 2 and USB Cable 1.
2. During the preliminary test, both charging modes (Adapter mode and WPT Charging mode) were verified. It is determined that the adaptor mode is the worst case for official test.

Based on ANSI C63.10 clause 5.6.2.2, b) spurious emissions,

Measure the mode with the highest output power and the mode with highest output power spectral density for each modulation family.

		5.6.2.2 (b) Spurious Emissions
UNII-5	20MHz	Covered by 160MHz
	40MHz	Covered by 160MHz
	80MHz	Covered by 160MHz
	160MHz	Test
UNII-6	20MHz	Covered by 160MHz
	40MHz	Covered by 160MHz
	80MHz	Covered by 160MHz
	160MHz	Test
UNII-7	20MHz	Covered by 160MHz
	40MHz	Covered by 160MHz
	80MHz	Covered by 160MHz
	160MHz	Test
UNII-8	20MHz	Covered by 160MHz
	40MHz	Covered by 160MHz
	80MHz	Covered by 160MHz
	160MHz	Test

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11ax HE20	802.11ax HE20	802.11ax HE20	802.11ax HE20
L	Low	001	-	-	-
M	Middle	-	-	-	-
H	High	-	-	-	229
Straddle		-	-	-	-

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11ax HE40	802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	003	-	-	-
M	Middle	-	-	-	-
H	High	-	-	-	227
Straddle		-	-	-	-

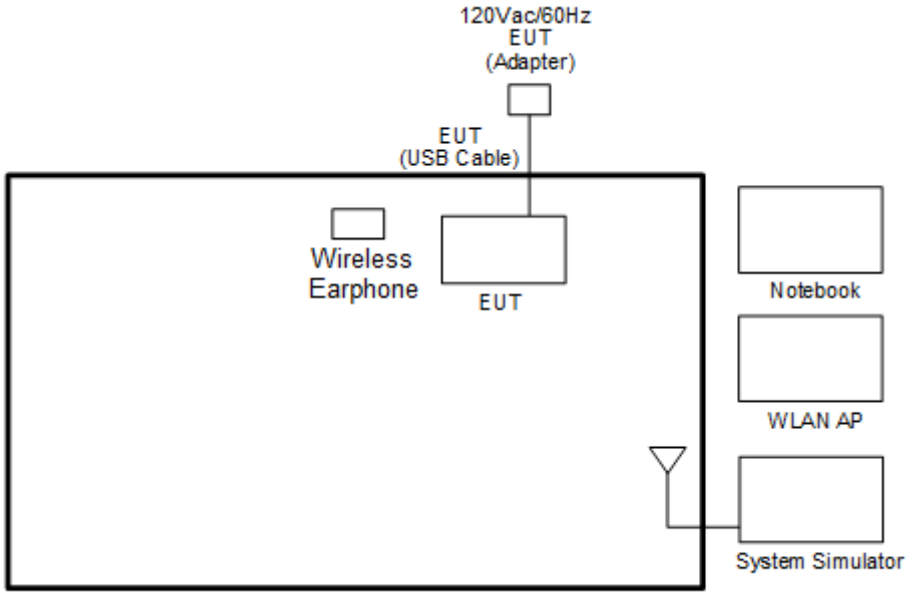
Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11ax HE80	802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	007	-	-	-
M	Middle	-	-	-	-
H	High	-	-	-	215
Straddle		-	-	-	-

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11ax HE160	802.11ax HE160	802.11ax HE160	802.11ax HE160
L	Low	015	-	143	207
M	Middle	047	-		
H	High	079	-		
Straddle		-	111	175	-

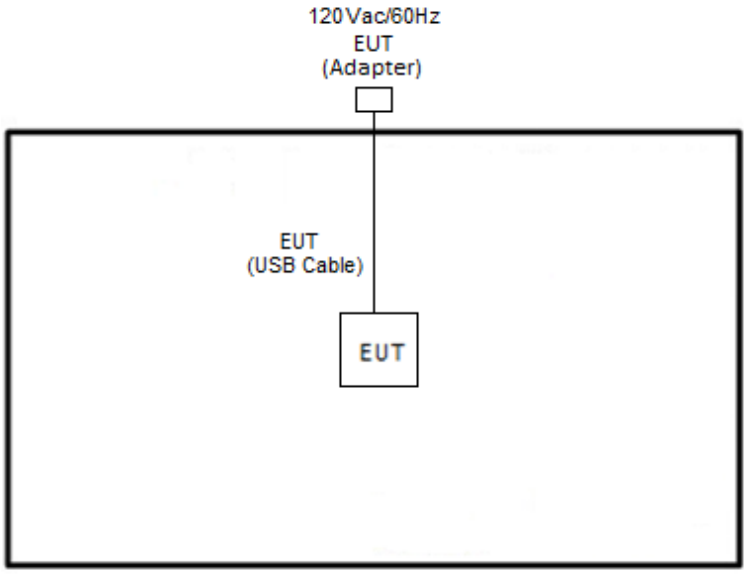
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Wireless Earphone	Google	G1007/G1008	A4RG1007/ A4RG1008	N/A	N/A
3.	WLAN AP	ASUS	GT-AXE11000	MSQ-RTAXJF00	N/A	Unshielded,1.8m
4.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “adb Command 1.0.36” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Limit of 26dB & 99% Occupied Bandwidth

<FCC 14-30 CFR 15.407>

(a)(10) The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

3.1.4 Test Setup

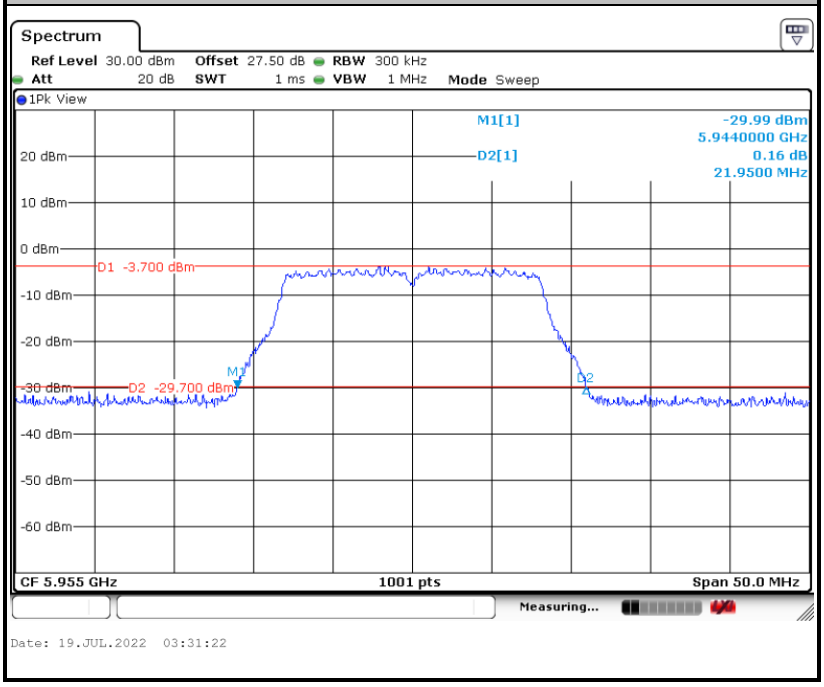
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

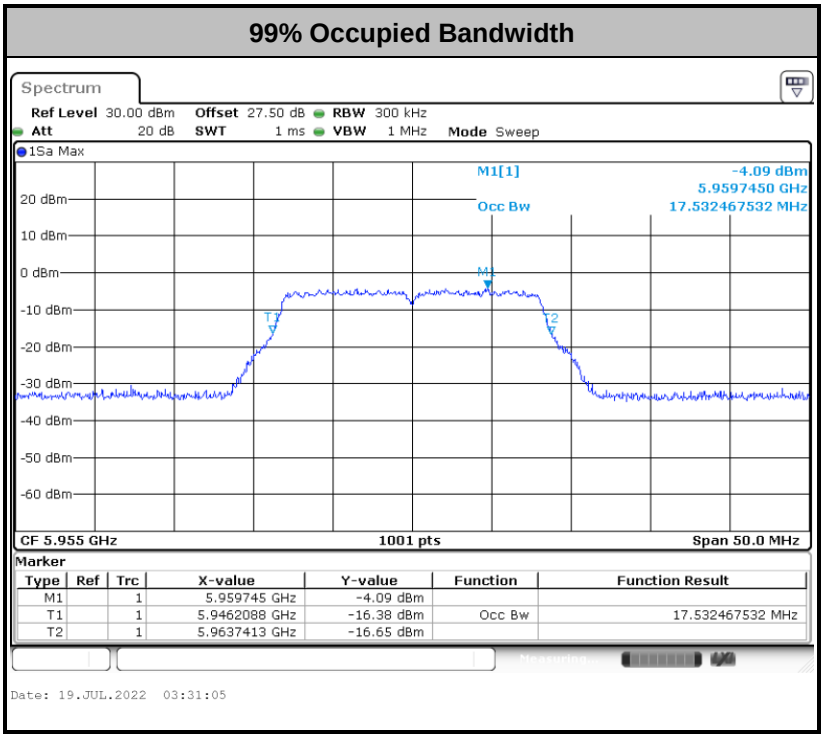
MIMO <Ant. 4+3>

For 802.11a

26dB Bandwidth



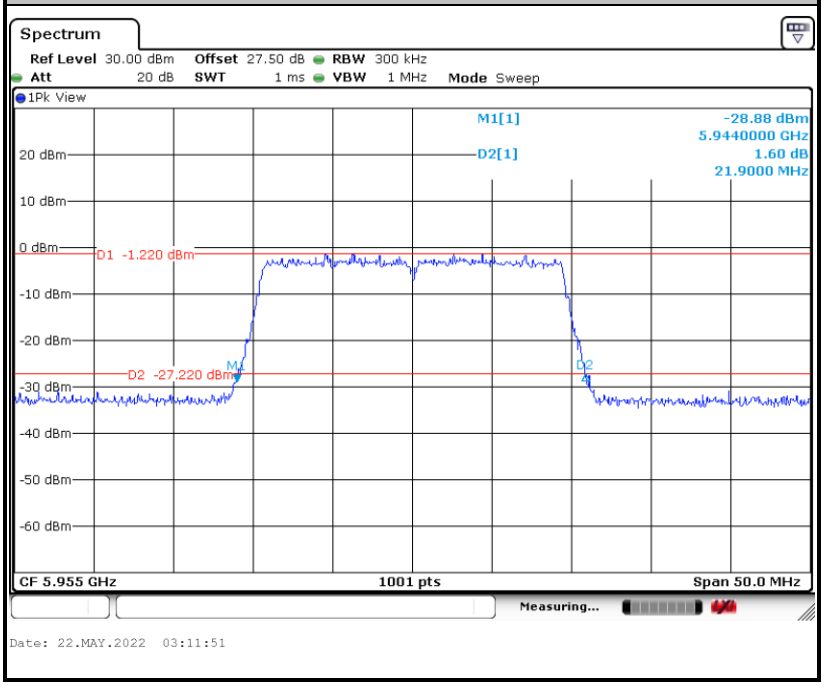
99% Occupied Bandwidth



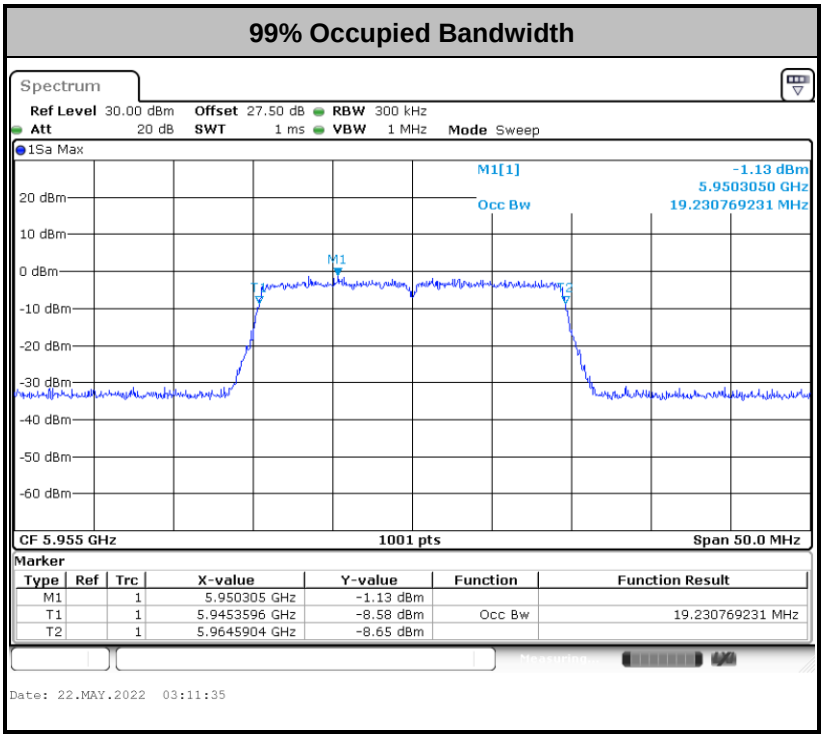
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

For 802.11ax HE20 MHz

26dB Bandwidth



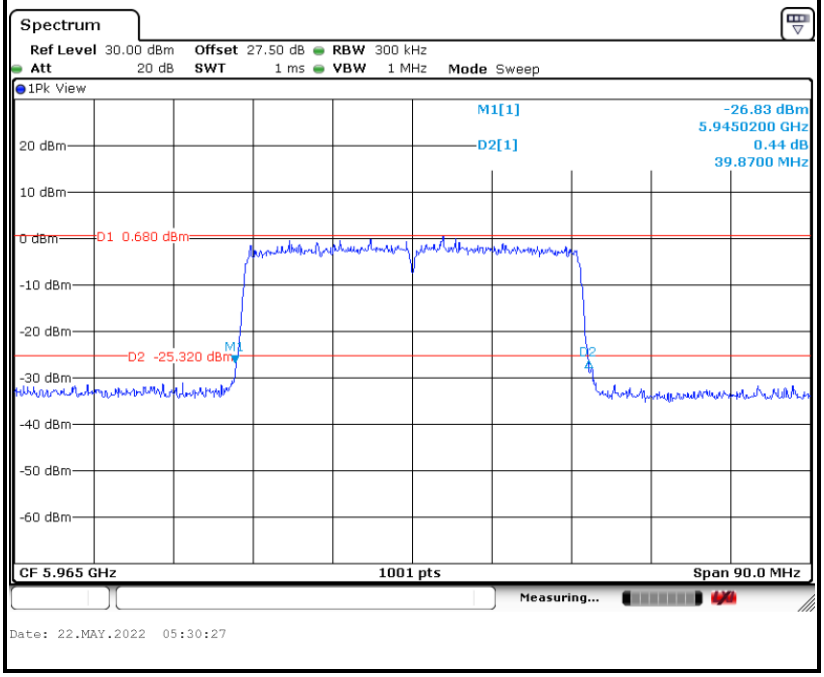
99% Occupied Bandwidth



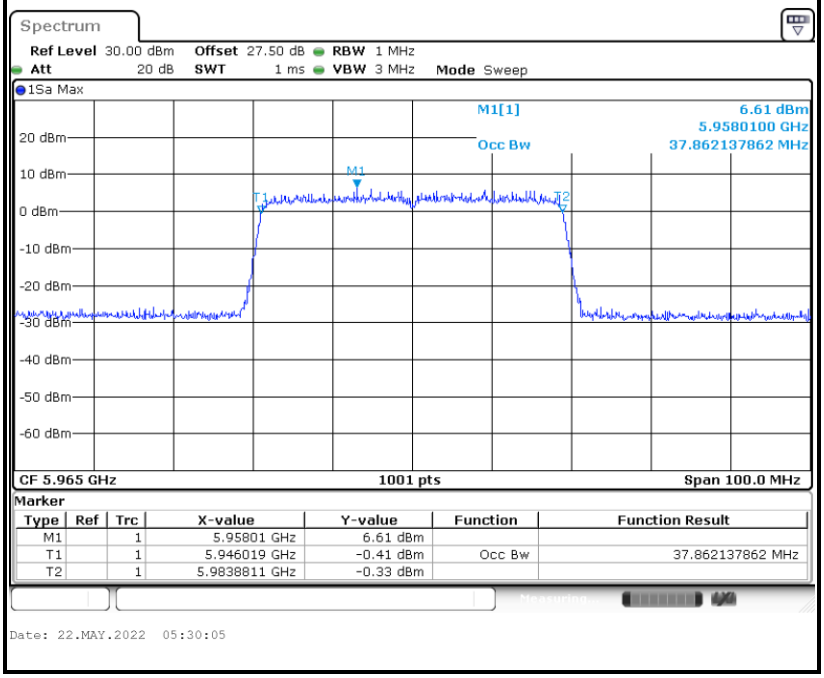
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

For 802.11ax HE40 MHz

26dB Bandwidth



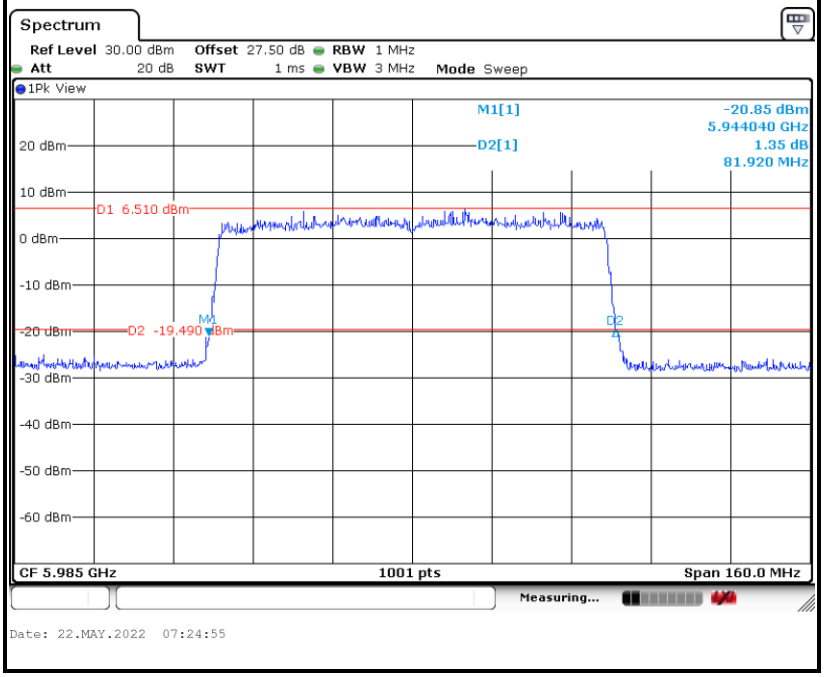
99% Occupied Bandwidth



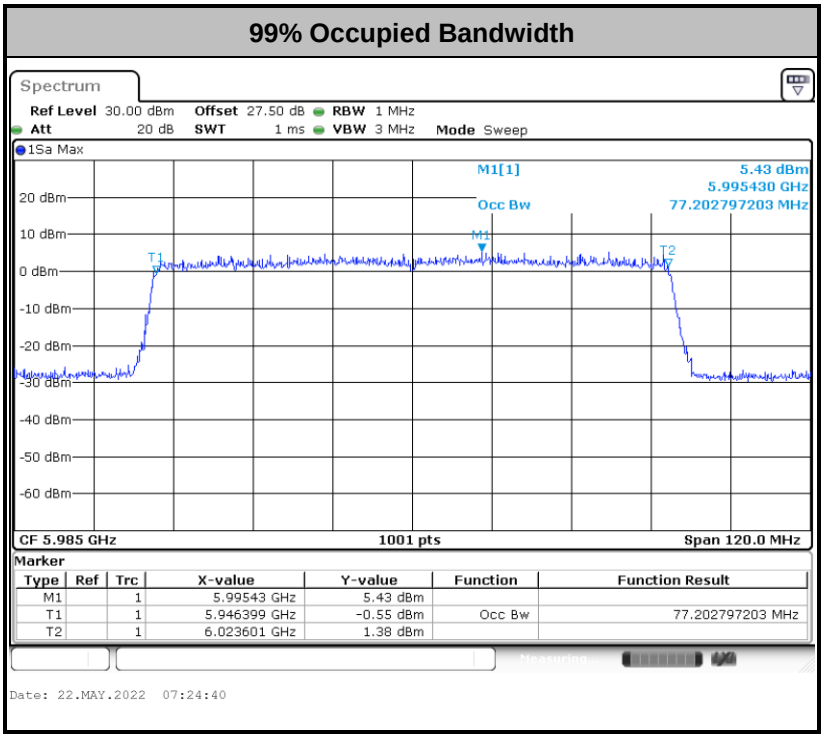
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

For 802.11ax HE80 MHz

26dB Bandwidth



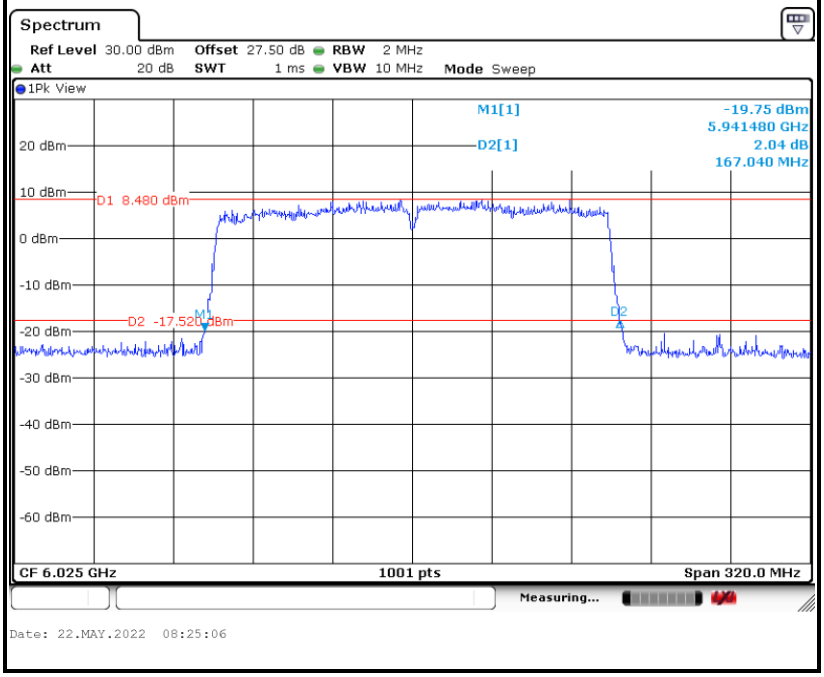
99% Occupied Bandwidth



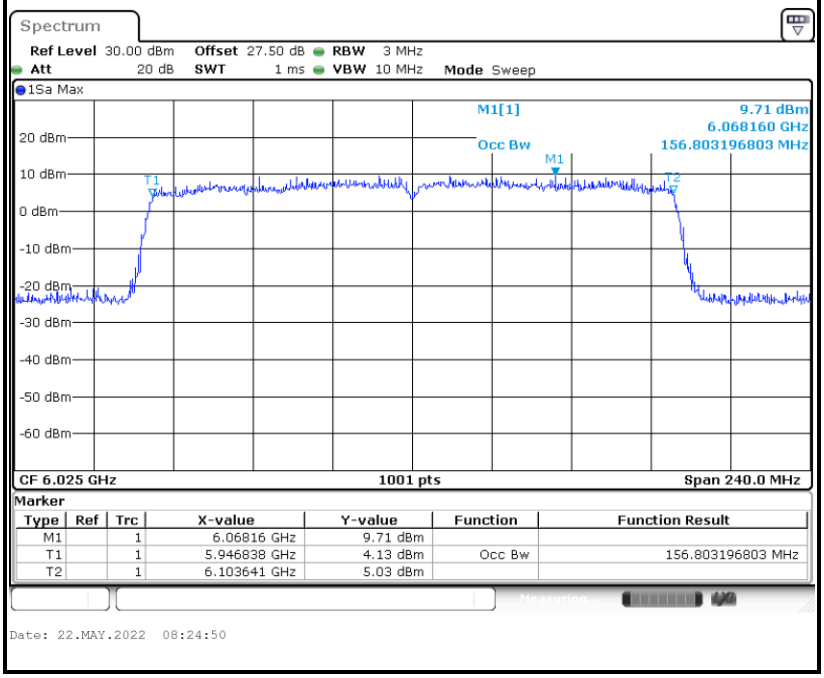
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

For 802.11ax HE160 MHz

26dB Bandwidth



99% Occupied Bandwidth



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Fundamental Maximum EIRP Measurement

3.2.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

3.2.2 Measuring Instruments

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

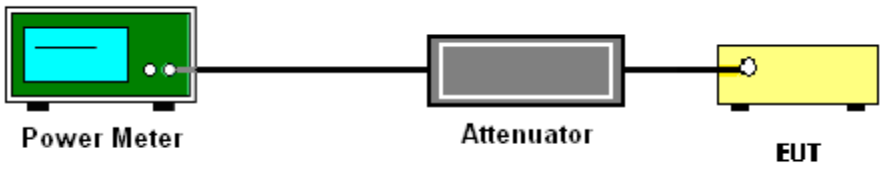
3.2.3 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.

3.3 Fundamental Power Spectral Density Measurement

3.3.1 Limit of Fundamental Power Spectral Density

<FCC 14-30 CFR 15.407>

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed −1 dBm e.i.r.p. in any 1-megahertz band.

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

 # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

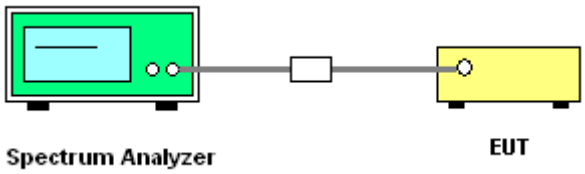
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (a): Measure and sum the spectra across the outputs.

   The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

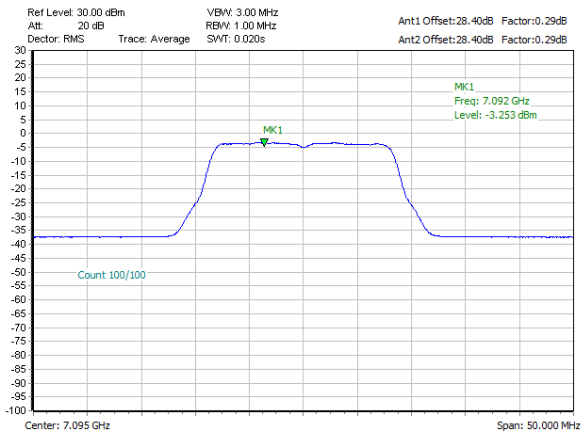
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

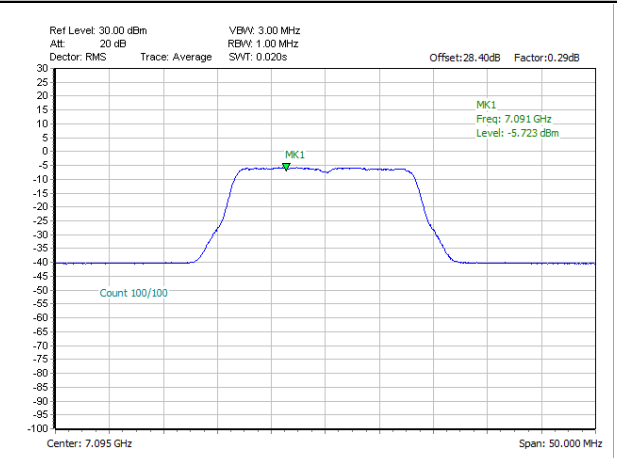
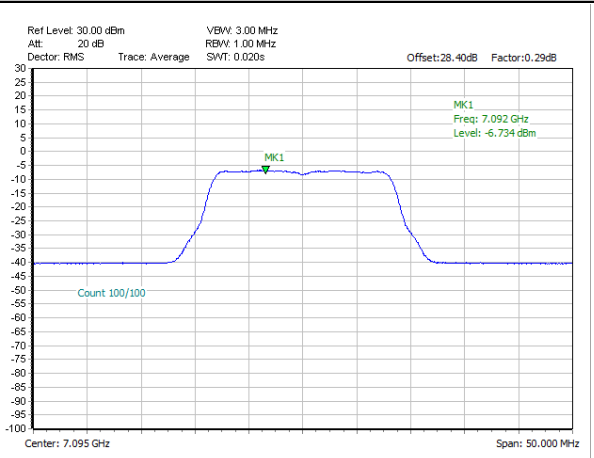
Please refer to Appendix A.

<802.11a>

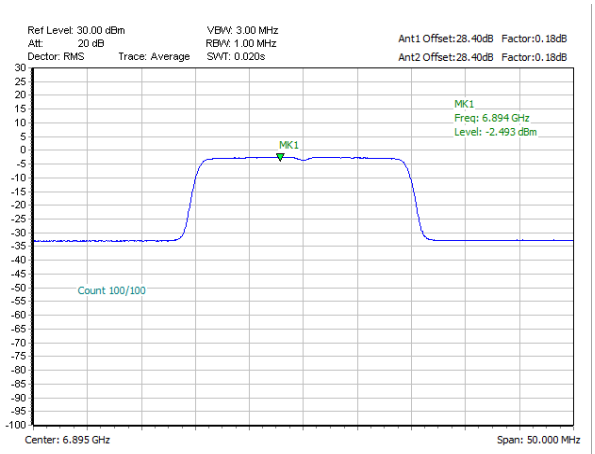
Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

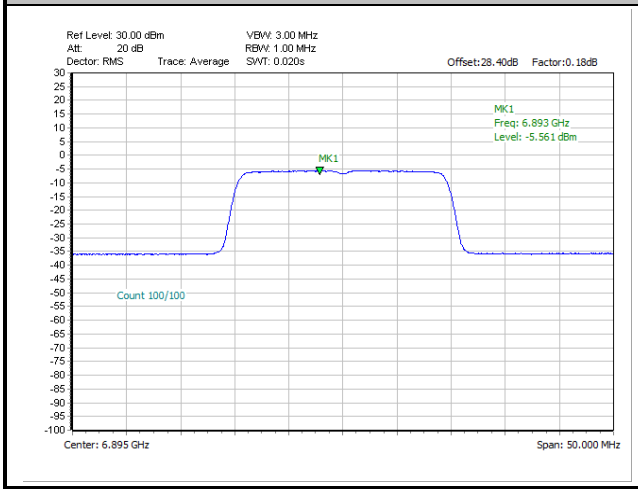
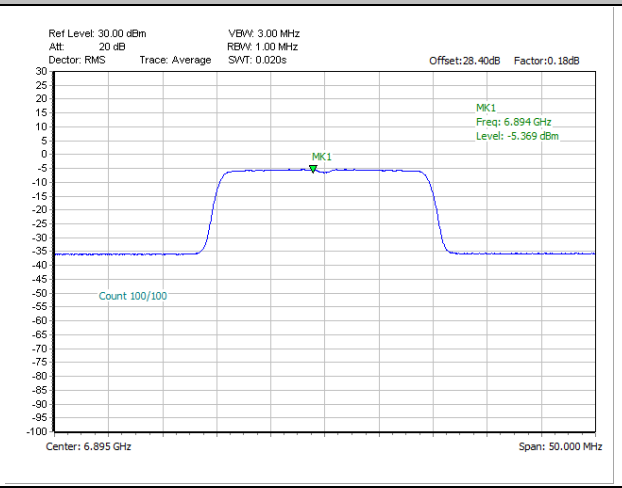
Power Density Plot Trace 1 (Ant 4)	Power Density Plot Trace 2 (Ant 3)
	

<802.11ax HE20>

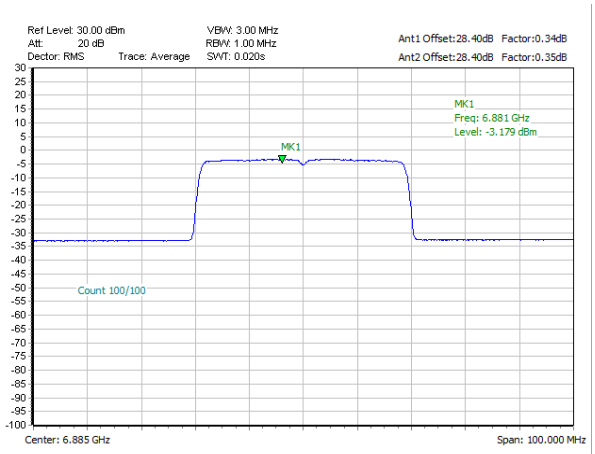
Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

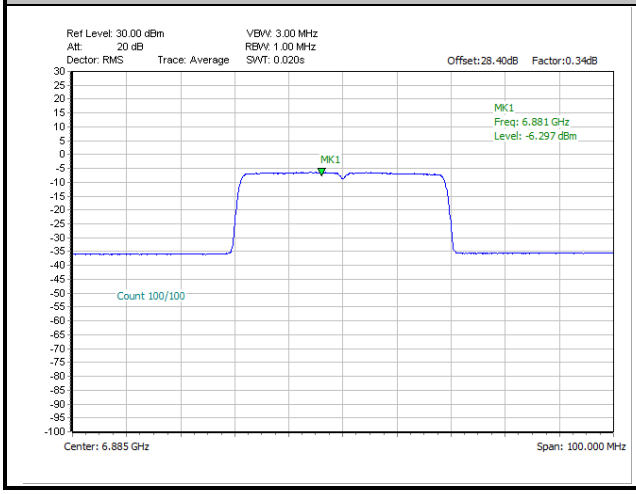
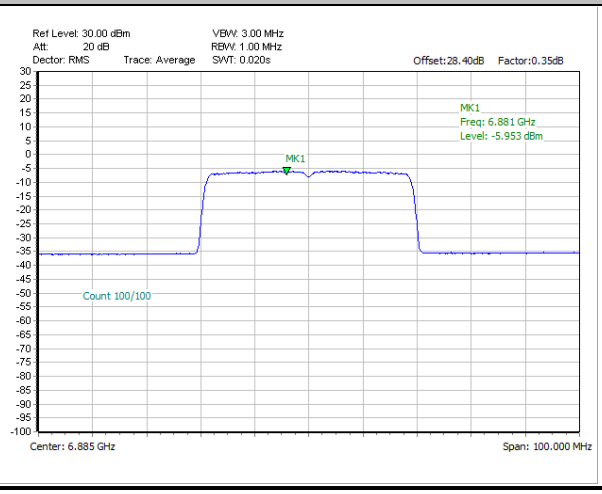
Power Density Plot Trace 1 (Ant 4)	Power Density Plot Trace 2 (Ant 3)
	

<802.11ax HE40>

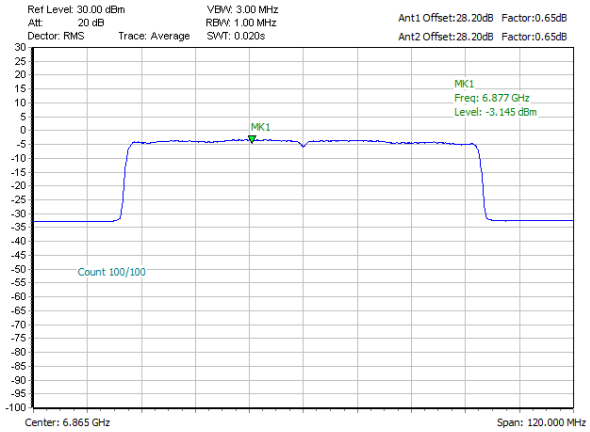
Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

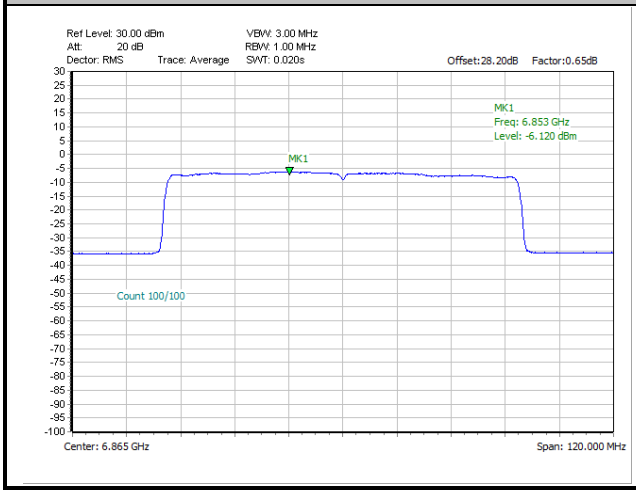
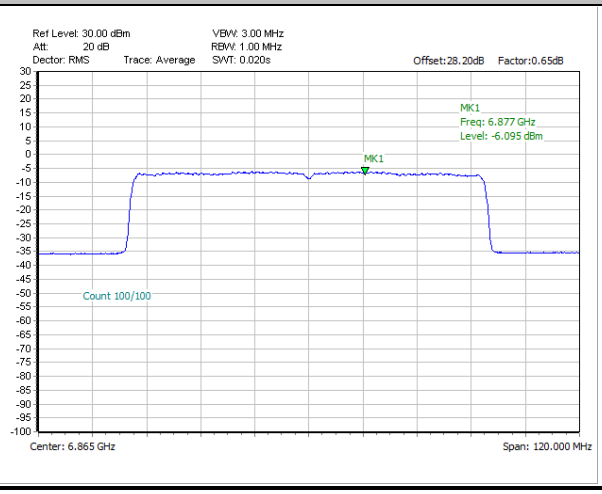
Power Density Plot Trace 1 (Ant 4)	Power Density Plot Trace 2 (Ant 3)
	

<802.11ax HE80>

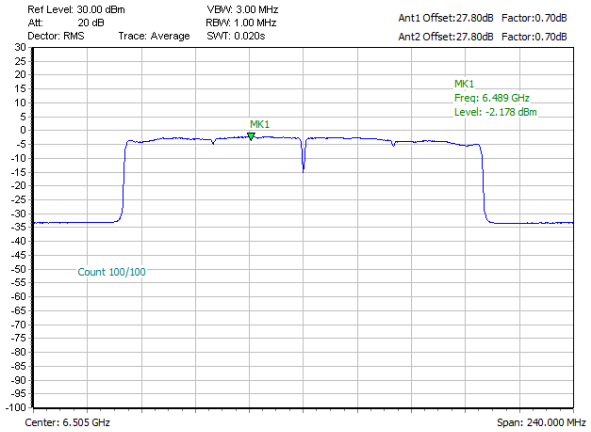
Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

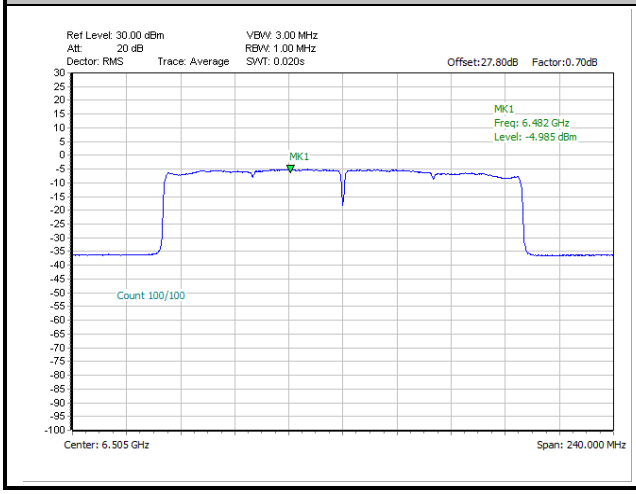
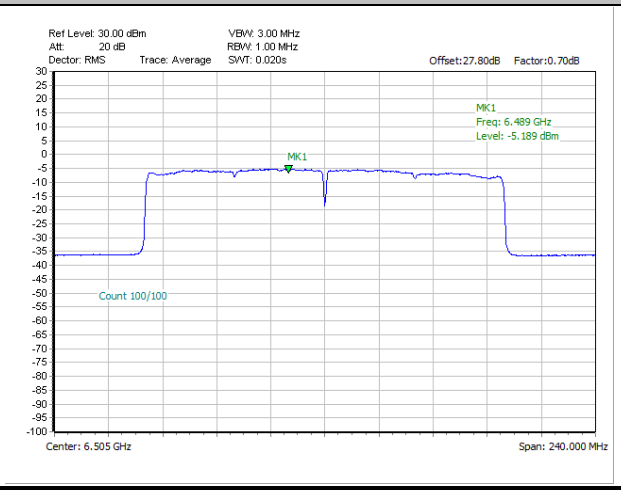
Power Density Plot Trace 1 (Ant 4)	Power Density Plot Trace 2 (Ant 3)
	

<802.11ax HE160>

Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

Power Density Plot Trace 1 (Ant 4)	Power Density Plot Trace 2 (Ant 3)
	

3.4 In-Band Emissions (Channel Mask)

3.4.1 Limit of Unwanted Emissions

<FCC 14-30 CFR 15.407>

(a)(6) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

3.4.2 Measuring Instruments

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

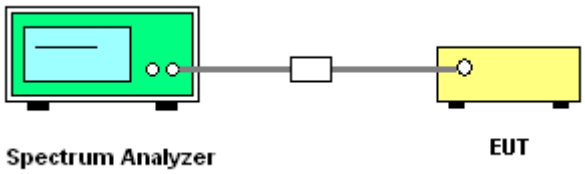
3.4.3 Test Procedures

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

Section J) In-Band Emissions.

1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
   a) Set the span to encompass the entire 26 dB EBW of the signal.
   b) Set RBW = same RBW used for 26 dB EBW measurement.
   c) Set VBW ≥ 3 X RBW
   d) Number of points in sweep ≥ [2 X span / RBW].
   e) Sweep time = auto.
   f) Detector = RMS (i.e., power averaging)
   g) Trace average at least 100 traces in power averaging (rms) mode.
   h) Use the peak search function on the instrument to find the peak of the spectrum.
3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
   a. Suppressed by 20 dB at 1 MHz outside of the channel edge.
   b. Suppressed by 28 dB at one channel bandwidth from the channel center.
   c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
4. Adjust the span to encompass the entire mask as necessary.
5. Clear trace.
6. Trace average at least 100 traces in power averaging (rms) mode.
7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

3.4.4 Test Setup

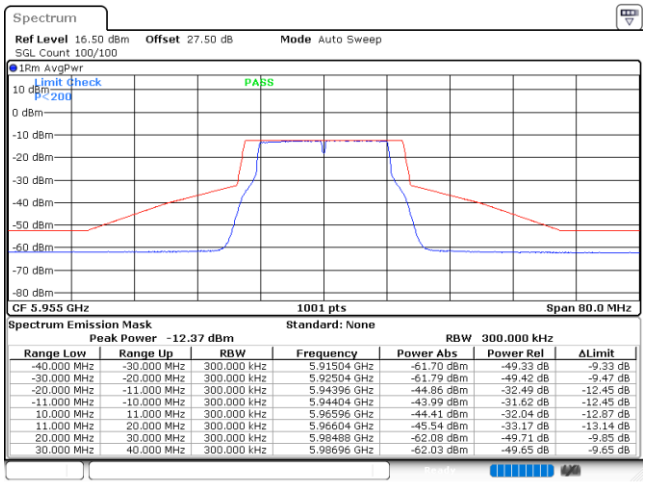


3.4.5 Test Result

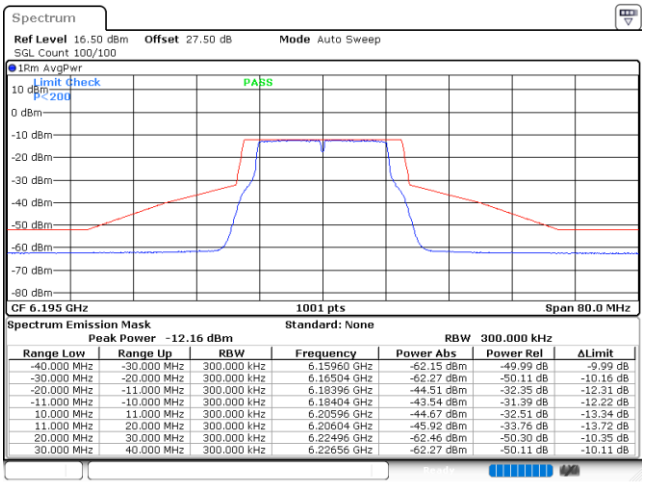
MIMO <Ant. 4+3(4)>

EUT Mode :	802.11a

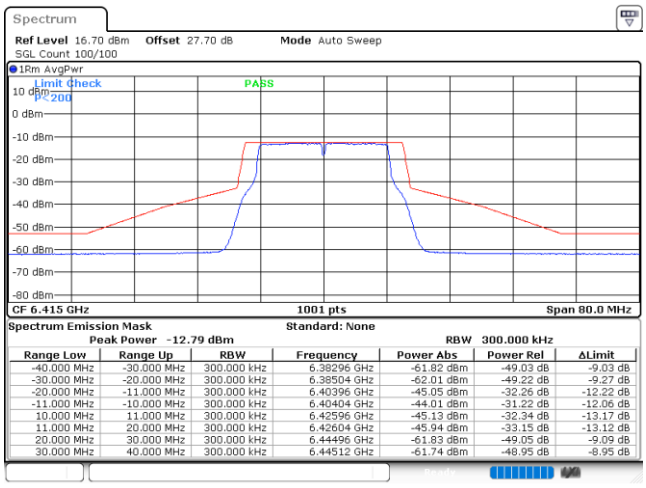
Plot on Channel 5955MHz



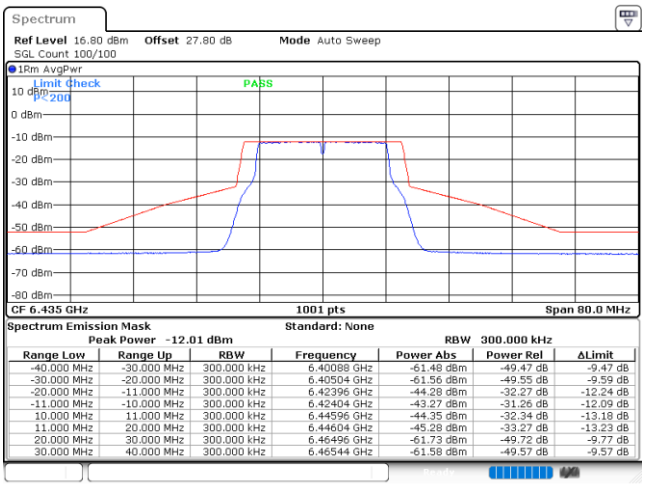
Plot on Channel 6195MHz



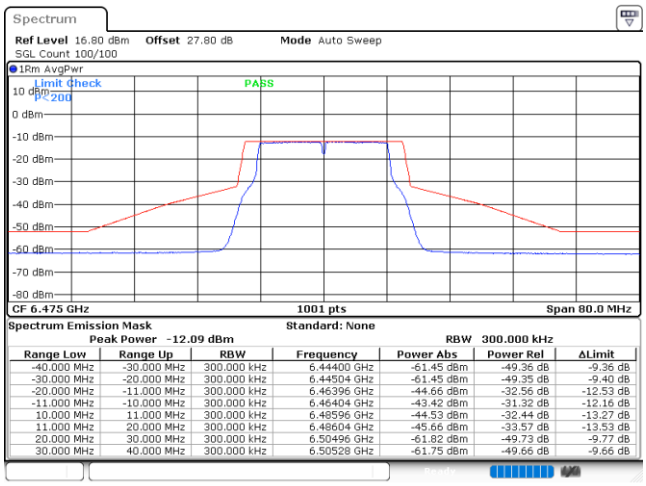
Plot on Channel 6415MHz



Plot on Channel 6435MHz



Plot on Channel 6475MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.44400 GHz	-61.45 dBm	-49.36 dB	-9.36 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.44504 GHz	-61.45 dBm	-49.35 dB	-9.40 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.46396 GHz	-44.66 dBm	-32.56 dB	-12.53 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.46404 GHz	-43.42 dBm	-31.32 dB	-12.16 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.48596 GHz	-44.53 dBm	-32.44 dB	-13.27 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.48604 GHz	-45.66 dBm	-33.57 dB	-13.53 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.50496 GHz	-61.82 dBm	-49.73 dB	-9.77 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.50528 GHz	-61.75 dBm	-49.66 dB	-9.66 dB

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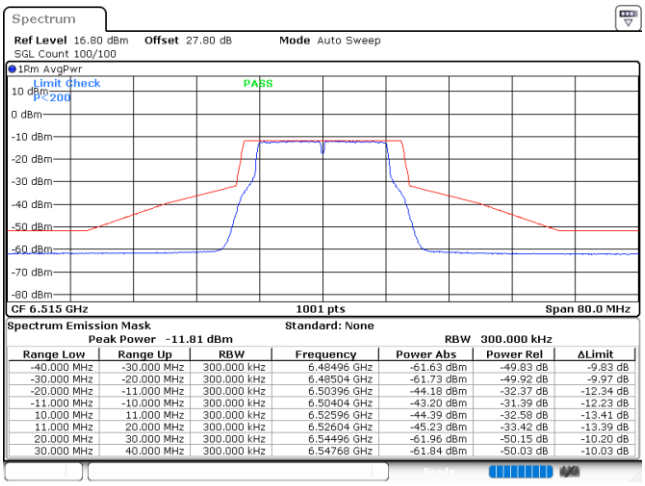
Plot on Channel 6515MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.48496 GHz	-61.63 dBm	-49.83 dB	-9.83 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.48504 GHz	-61.73 dBm	-49.92 dB	-9.97 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.50396 GHz	-44.18 dBm	-32.37 dB	-12.34 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.50404 GHz	-43.20 dBm	-31.39 dB	-12.23 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.52596 GHz	-44.39 dBm	-32.58 dB	-13.41 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.52604 GHz	-45.23 dBm	-33.42 dB	-13.39 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.54496 GHz	-61.96 dBm	-50.15 dB	-10.20 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.54768 GHz	-61.84 dBm	-50.03 dB	-10.03 dB

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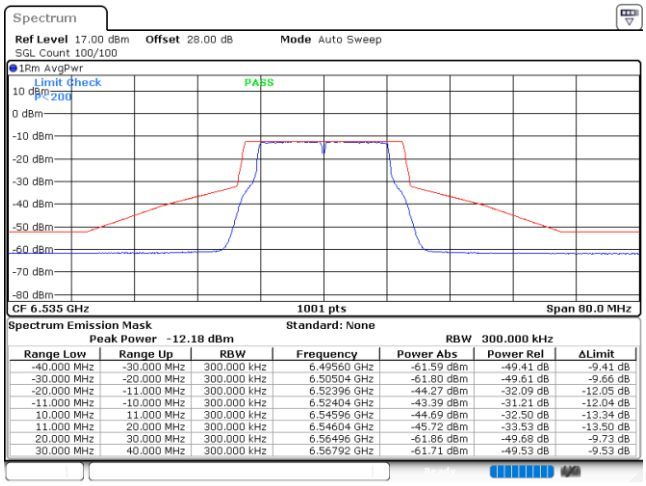
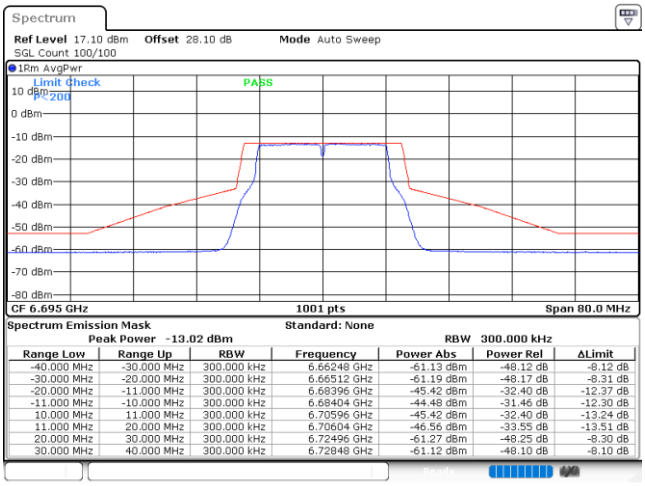
Plot on Channel 6535MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.49560 GHz	-61.59 dBm	-49.41 dB	-9.41 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.50504 GHz	-61.80 dBm	-49.61 dB	-9.66 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.52396 GHz	-44.27 dBm	-32.09 dB	-12.05 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.52404 GHz	-43.39 dBm	-31.21 dB	-12.04 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.54596 GHz	-44.69 dBm	-32.50 dB	-13.34 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.54604 GHz	-45.72 dBm	-33.53 dB	-13.50 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.56496 GHz	-61.86 dBm	-49.68 dB	-9.73 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.56792 GHz	-61.71 dBm	-49.53 dB	-9.53 dB

Date: 19.JUL.2022 03:52:30

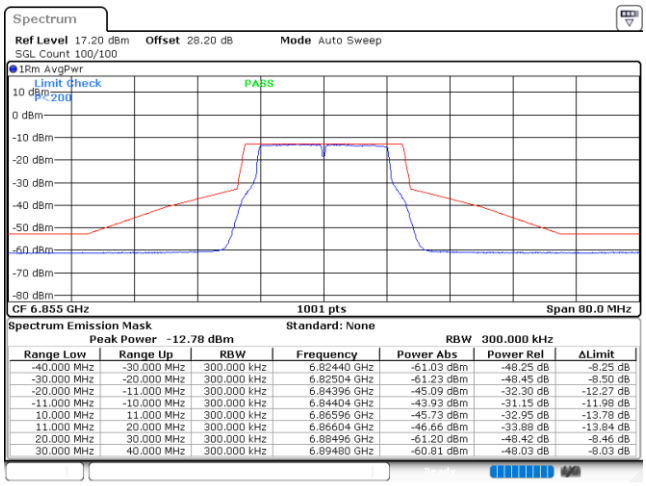
Plot on Channel 6695MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.66248 GHz	-61.13 dBm	-48.12 dB	-8.12 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.66512 GHz	-61.19 dBm	-48.17 dB	-8.31 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.68396 GHz	-45.42 dBm	-32.40 dB	-12.37 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.68404 GHz	-44.48 dBm	-31.46 dB	-12.30 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.70596 GHz	-45.42 dBm	-32.40 dB	-13.24 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.70604 GHz	-46.56 dBm	-33.55 dB	-13.51 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.72496 GHz	-61.27 dBm	-48.25 dB	-8.30 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.72848 GHz	-61.12 dBm	-48.10 dB	-8.10 dB

Date: 19.JUL.2022 03:55:38

Plot on Channel 6855MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.82440 GHz	-61.03 dBm	-48.25 dB	-8.25 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.82504 GHz	-61.23 dBm	-48.45 dB	-8.50 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.84396 GHz	-45.09 dBm	-32.30 dB	-12.27 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.84404 GHz	-43.93 dBm	-31.15 dB	-11.98 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.86596 GHz	-45.73 dBm	-32.95 dB	-13.78 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.86604 GHz	-46.66 dBm	-33.88 dB	-13.84 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.88496 GHz	-61.20 dBm	-48.42 dB	-8.46 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.89480 GHz	-60.81 dBm	-48.03 dB	-8.03 dB

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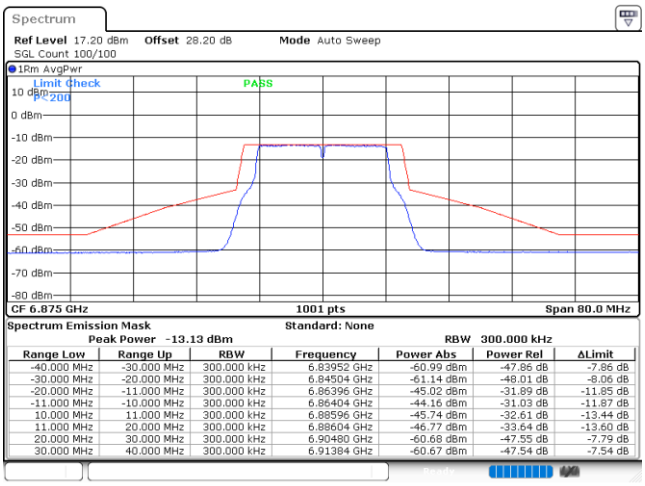
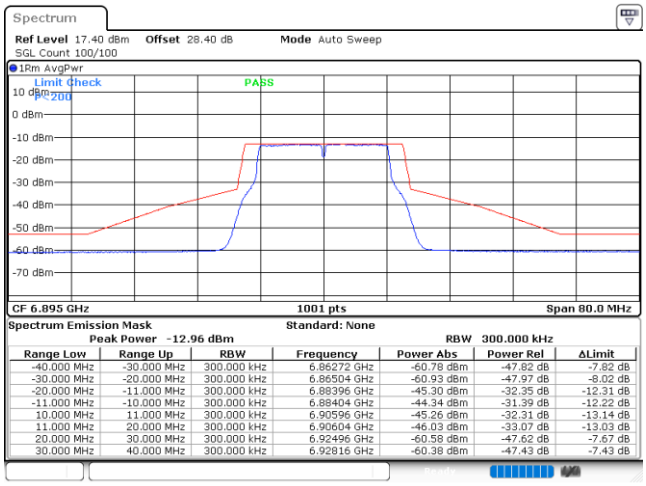
Plot on Channel 6875MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.83952 GHz	-60.99 dBm	-47.86 dB	-7.86 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.84504 GHz	-61.14 dBm	-48.01 dB	-8.06 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.86396 GHz	-45.02 dBm	-31.89 dB	-11.85 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.86404 GHz	-44.16 dBm	-31.03 dB	-11.87 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.88596 GHz	-45.74 dBm	-32.61 dB	-13.44 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.88604 GHz	-46.77 dBm	-33.64 dB	-13.60 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.90480 GHz	-60.68 dBm	-47.55 dB	-7.79 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.91384 GHz	-60.67 dBm	-47.54 dB	-7.54 dB

Date: 19.JUL.2022 04:02:32

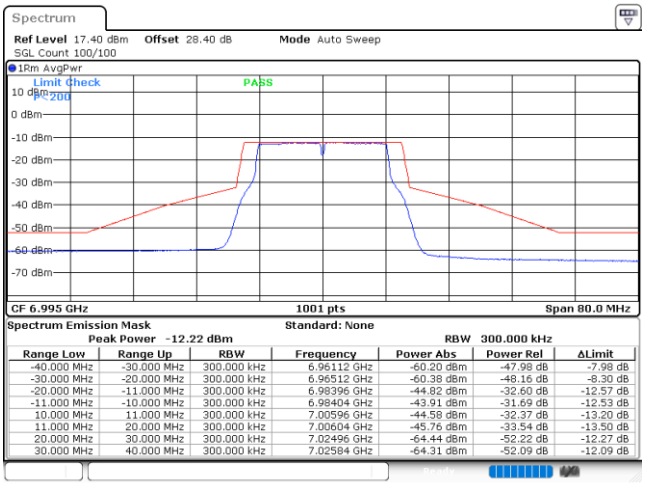
Plot on Channel 6895MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.86272 GHz	-60.78 dBm	-47.82 dB	-7.82 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.86504 GHz	-60.93 dBm	-47.97 dB	-8.02 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.88396 GHz	-45.30 dBm	-32.35 dB	-12.31 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.88404 GHz	-44.34 dBm	-31.39 dB	-12.22 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.90596 GHz	-45.26 dBm	-32.31 dB	-13.14 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.90604 GHz	-46.03 dBm	-33.07 dB	-13.03 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.92496 GHz	-60.58 dBm	-47.62 dB	-7.67 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.92816 GHz	-60.38 dBm	-47.43 dB	-7.43 dB

Date: 19.JUL.2022 04:05:41

Plot on Channel 6995MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.96112 GHz	-60.20 dBm	-47.98 dB	-7.98 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.96512 GHz	-60.38 dBm	-48.16 dB	-8.30 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.98396 GHz	-44.82 dBm	-32.60 dB	-12.57 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.98404 GHz	-43.91 dBm	-31.69 dB	-12.53 dB
10.000 MHz	11.000 MHz	300.000 kHz	7.00596 GHz	-44.58 dBm	-32.37 dB	-13.20 dB
11.000 MHz	20.000 MHz	300.000 kHz	7.00604 GHz	-45.76 dBm	-33.54 dB	-13.50 dB
20.000 MHz	30.000 MHz	300.000 kHz	7.02496 GHz	-64.44 dBm	-52.22 dB	-12.27 dB
30.000 MHz	40.000 MHz	300.000 kHz	7.02584 GHz	-64.31 dBm	-52.09 dB	-12.09 dB

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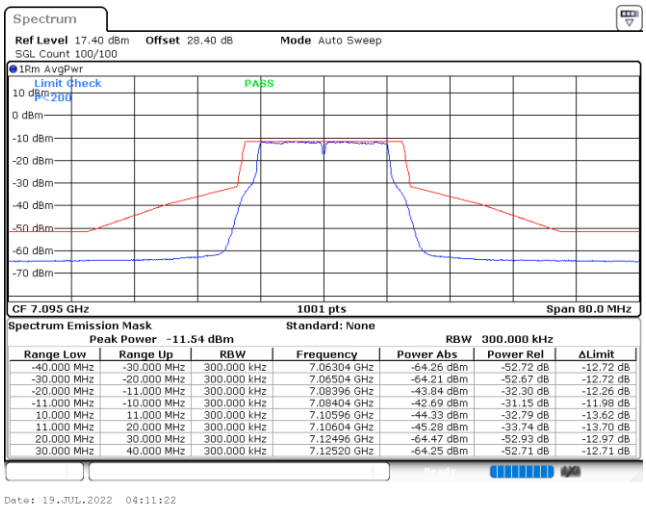
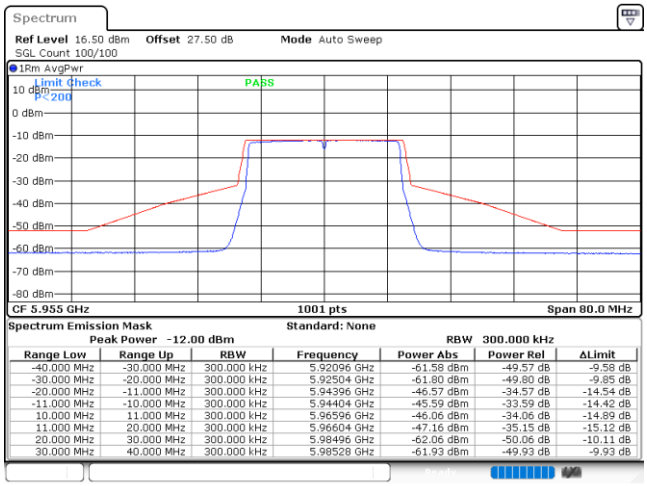
Plot on Channel 7095MHz

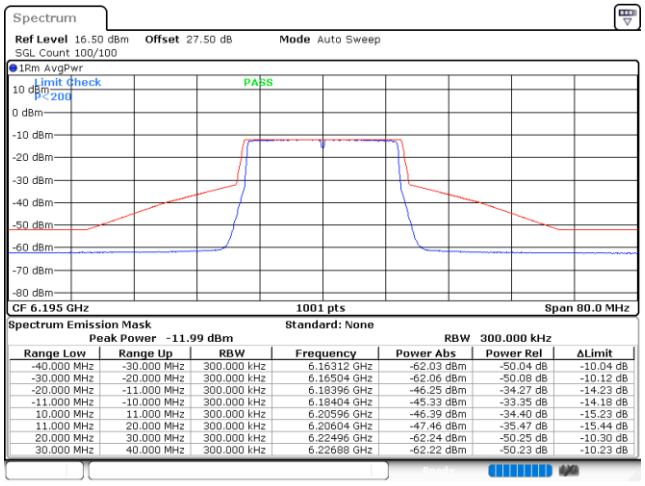


EUT Mode :	802.11ax HE20 Full RU

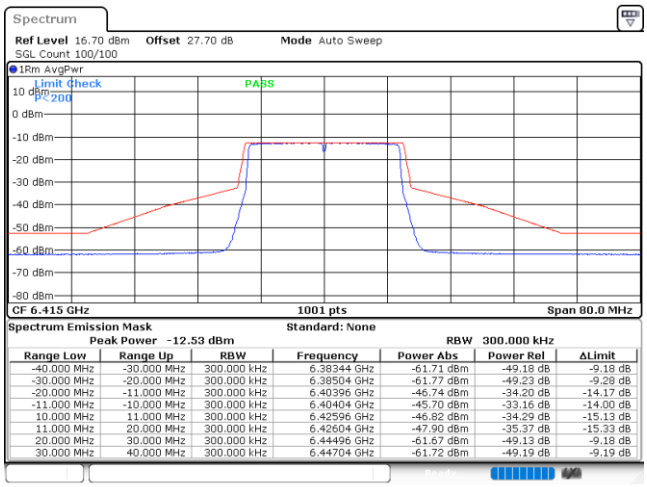
Plot on Channel 5955MHz



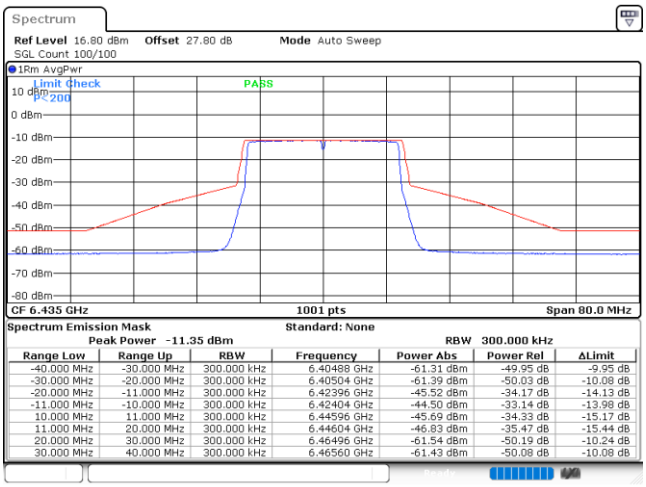
Plot on Channel 6195MHz



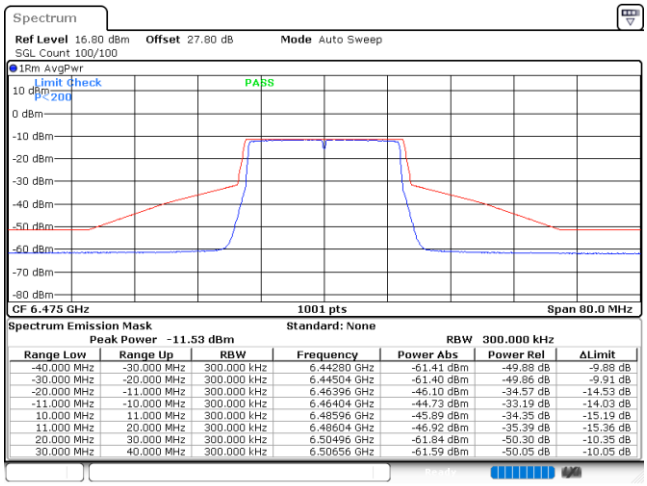
Plot on Channel 6415MHz



Plot on Channel 6435MHz



Plot on Channel 6475MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.44280 GHz	-61.41 dBm	-49.88 dB	-9.88 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.44504 GHz	-61.40 dBm	-49.86 dB	-9.91 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.46396 GHz	-46.10 dBm	-34.57 dB	-14.53 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.46404 GHz	-44.73 dBm	-33.19 dB	-14.03 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.48596 GHz	-45.89 dBm	-34.35 dB	-15.19 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.48604 GHz	-46.92 dBm	-35.39 dB	-15.36 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.50496 GHz	-61.84 dBm	-50.30 dB	-10.35 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.50656 GHz	-61.59 dBm	-50.05 dB	-10.05 dB

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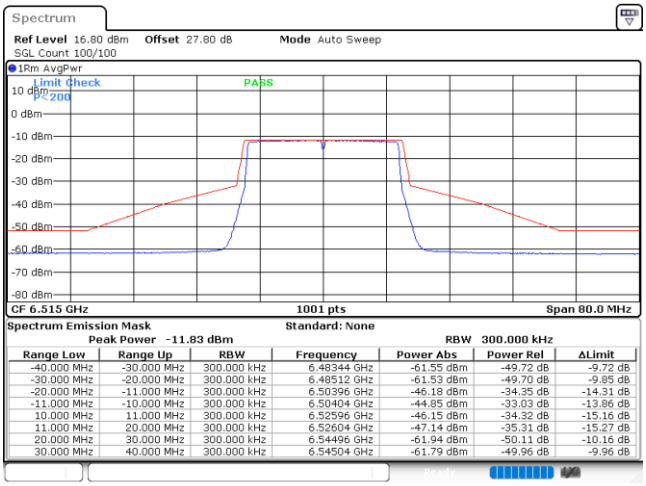
Plot on Channel 6515MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.48344 GHz	-61.55 dBm	-49.72 dB	-9.72 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.48512 GHz	-61.53 dBm	-49.70 dB	-9.85 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.50396 GHz	-46.18 dBm	-34.35 dB	-14.31 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.50404 GHz	-44.85 dBm	-33.03 dB	-13.86 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.52596 GHz	-46.15 dBm	-34.32 dB	-15.16 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.52604 GHz	-47.14 dBm	-35.31 dB	-15.27 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.54496 GHz	-61.94 dBm	-50.11 dB	-10.16 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.54504 GHz	-61.79 dBm	-49.96 dB	-9.96 dB

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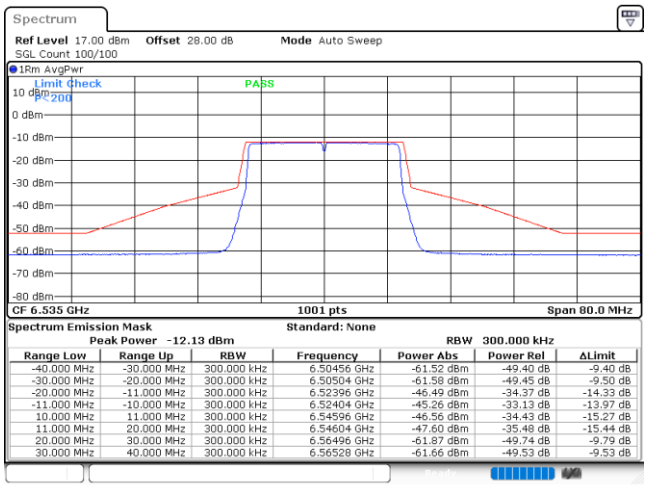
Plot on Channel 6535MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.50456 GHz	-61.52 dBm	-49.40 dB	-9.40 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.50504 GHz	-61.58 dBm	-49.45 dB	-9.50 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.52396 GHz	-46.49 dBm	-34.37 dB	-14.33 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.52404 GHz	-45.26 dBm	-33.13 dB	-13.97 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.54596 GHz	-46.56 dBm	-34.43 dB	-15.27 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.54604 GHz	-47.60 dBm	-35.48 dB	-15.44 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.56496 GHz	-61.87 dBm	-49.74 dB	-9.79 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.56528 GHz	-61.66 dBm	-49.53 dB	-9.53 dB

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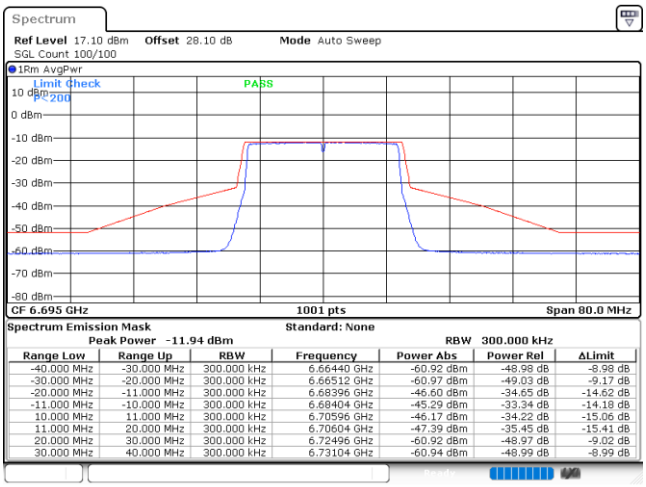
Plot on Channel 6695MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.66440 GHz	-60.92 dBm	-48.98 dB	-8.98 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.66512 GHz	-60.97 dBm	-49.03 dB	-9.17 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.68396 GHz	-46.60 dBm	-34.65 dB	-14.62 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.68404 GHz	-45.29 dBm	-33.34 dB	-14.18 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.70596 GHz	-46.17 dBm	-34.22 dB	-15.06 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.70604 GHz	-47.39 dBm	-35.45 dB	-15.41 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.72496 GHz	-60.92 dBm	-48.97 dB	-9.02 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.73104 GHz	-60.94 dBm	-48.99 dB	-8.99 dB

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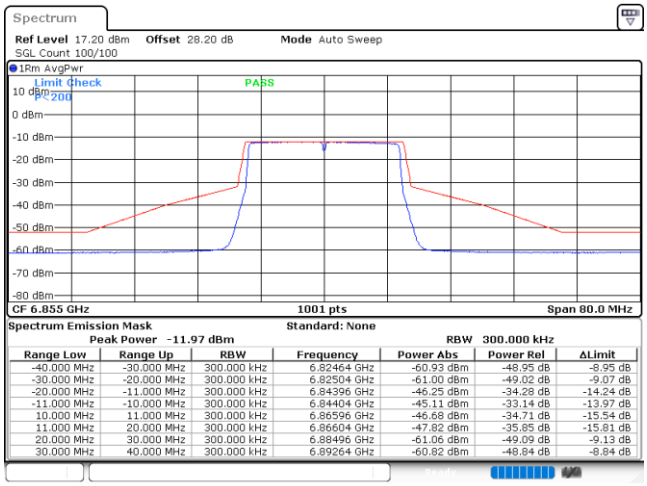
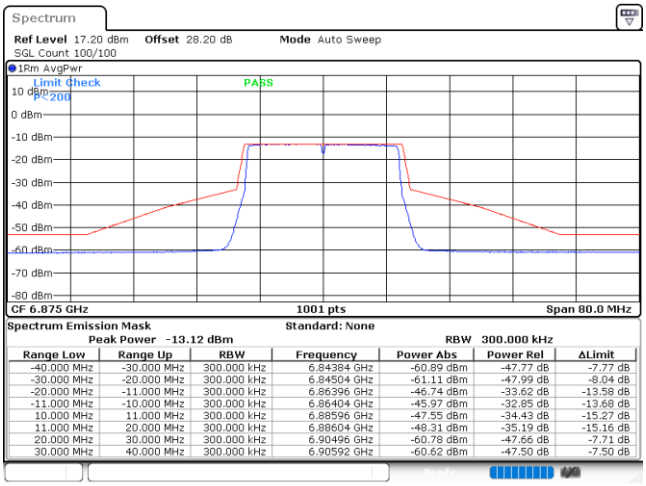
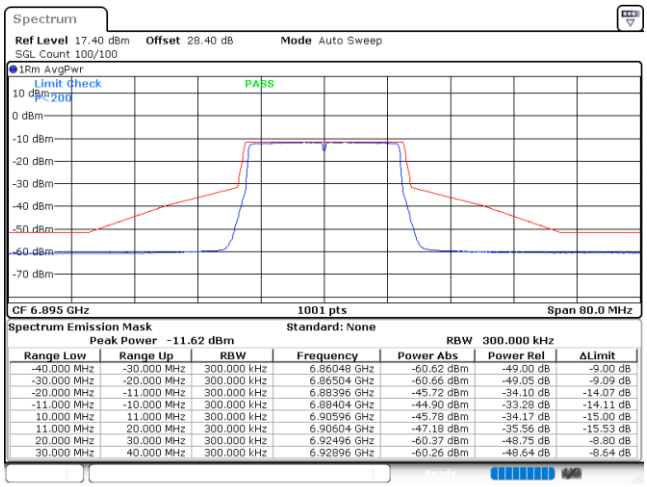
Plot on Channel 6855MHz



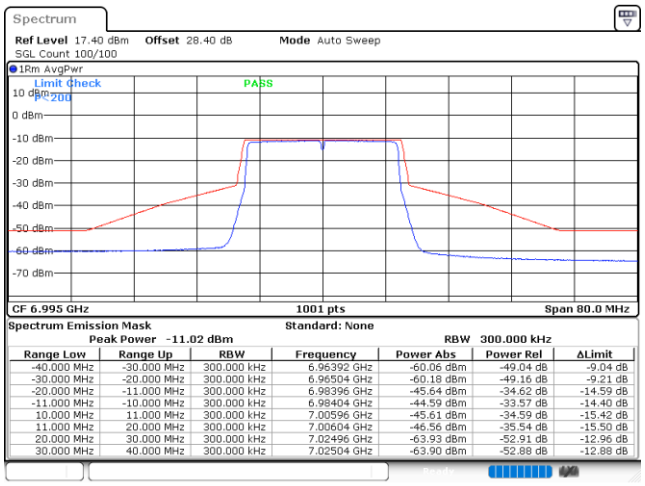
Plot on Channel 6875MHz



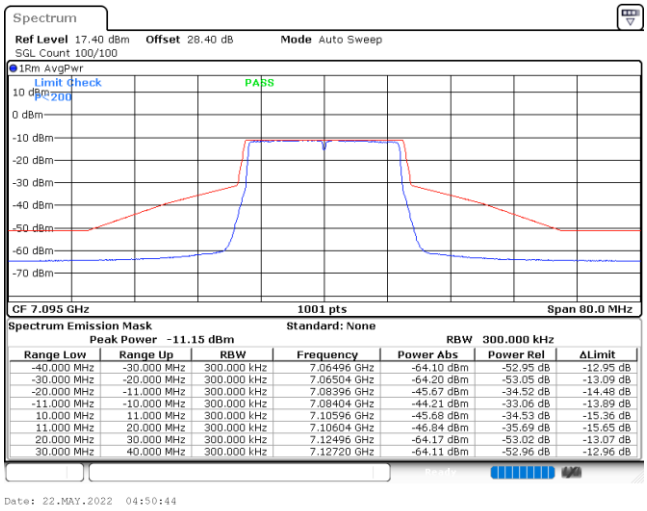
Plot on Channel 6895MHz



Plot on Channel 6995MHz

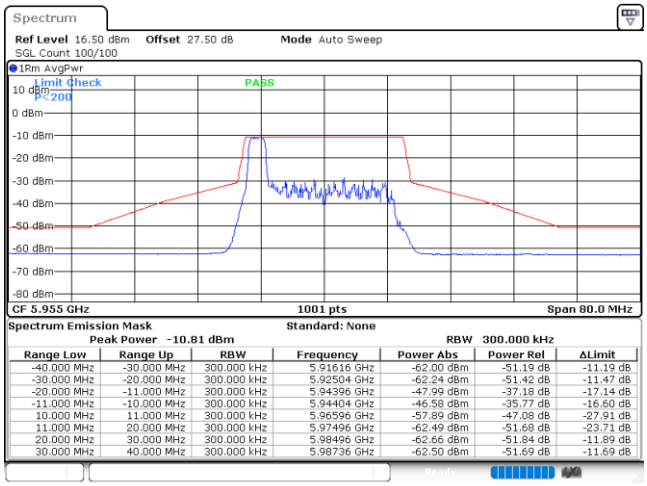


Plot on Channel 7095MHz

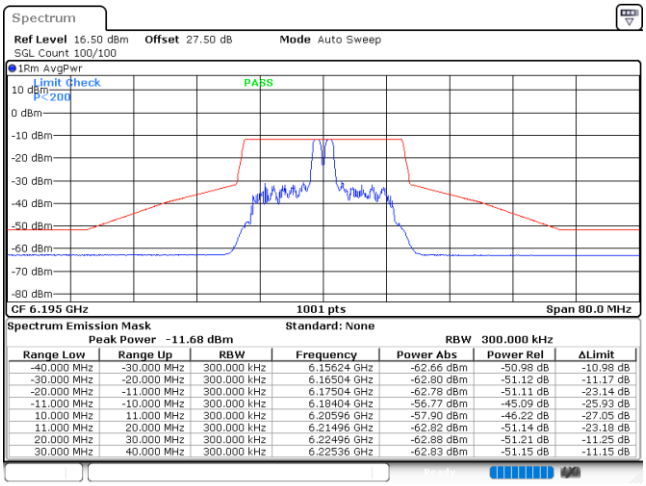


EUT Mode :	802.11ax HE20 26RU

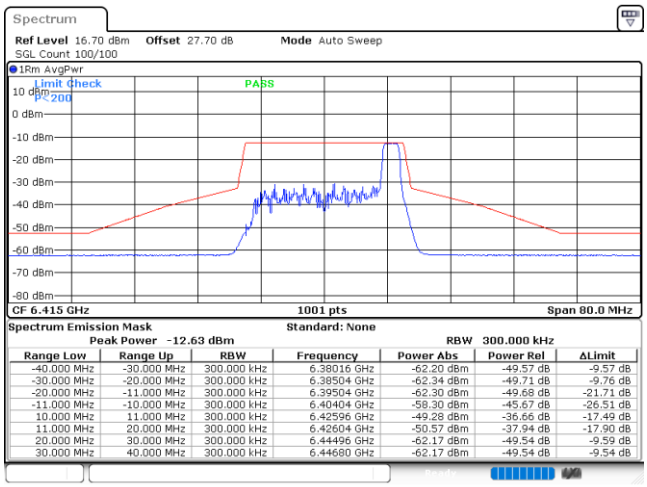
Plot on Channel 5955MHz



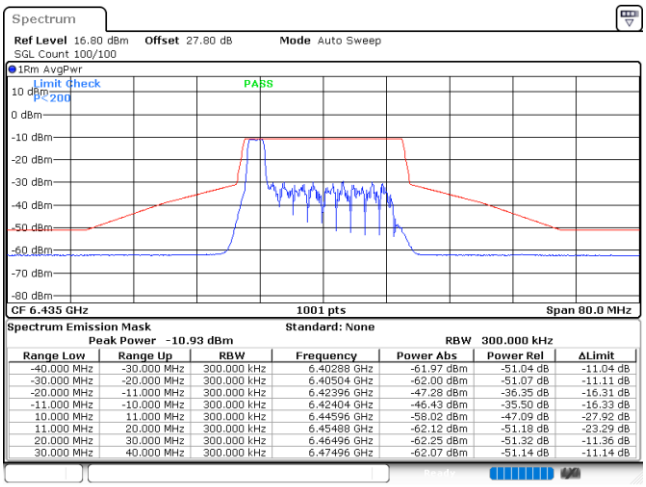
Plot on Channel 6195MHz



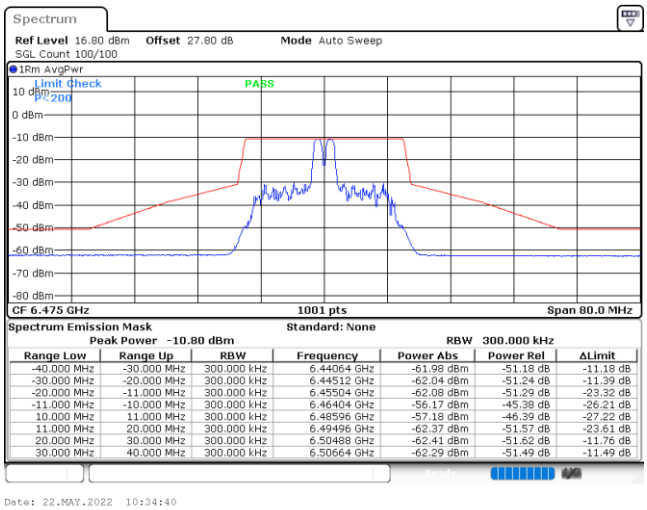
Plot on Channel 6415MHz



Plot on Channel 6435MHz



Plot on Channel 6475MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.44064 GHz	-61.98 dBm	-51.18 dB	-11.18 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.44512 GHz	-62.04 dBm	-51.24 dB	-11.39 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.45504 GHz	-62.08 dBm	-51.29 dB	-23.32 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.46404 GHz	-56.17 dBm	-45.38 dB	-26.21 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.48596 GHz	-57.18 dBm	-46.39 dB	-27.22 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.49496 GHz	-62.37 dBm	-51.57 dB	-23.61 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.50488 GHz	-62.41 dBm	-51.62 dB	-11.76 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.50664 GHz	-62.29 dBm	-51.49 dB	-11.49 dB

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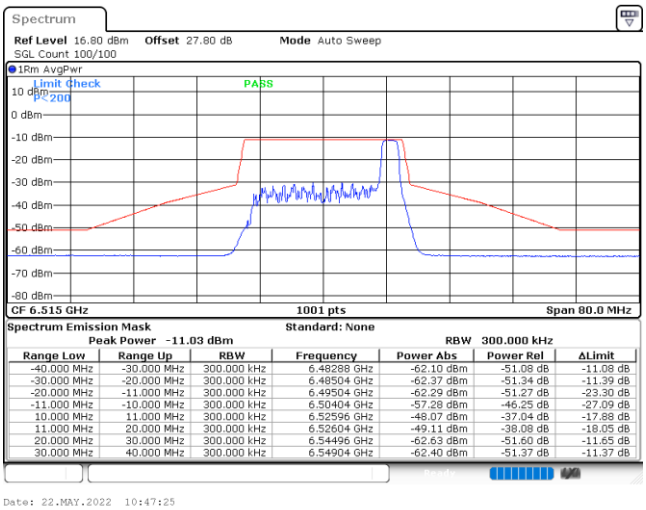
Plot on Channel 6515MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.48288 GHz	-62.10 dBm	-51.08 dB	-11.08 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.48504 GHz	-62.37 dBm	-51.34 dB	-11.39 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.49504 GHz	-62.29 dBm	-51.27 dB	-23.30 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.50404 GHz	-57.28 dBm	-46.25 dB	-27.09 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.52596 GHz	-48.07 dBm	-37.04 dB	-17.88 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.52604 GHz	-49.11 dBm	-38.08 dB	-18.05 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.54496 GHz	-62.63 dBm	-51.60 dB	-11.65 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.54904 GHz	-62.40 dBm	-51.37 dB	-11.37 dB

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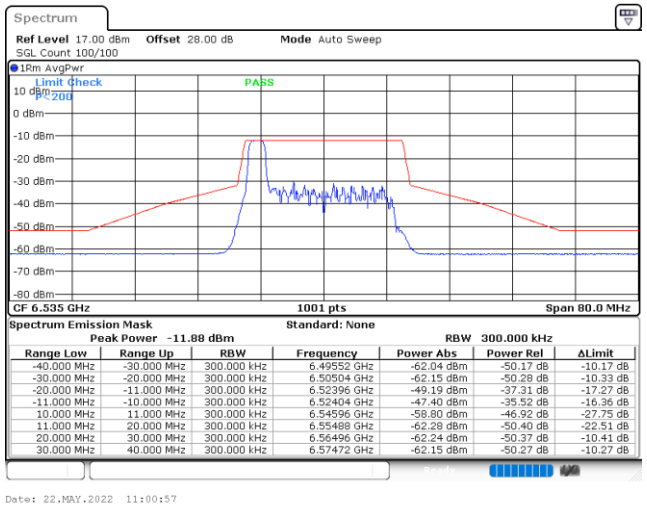
Plot on Channel 6535MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.49552 GHz	-62.04 dBm	-50.17 dB	-10.17 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.50504 GHz	-62.15 dBm	-50.28 dB	-10.33 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.52396 GHz	-49.19 dBm	-37.31 dB	-17.27 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.52404 GHz	-47.40 dBm	-35.52 dB	-16.36 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.54596 GHz	-58.80 dBm	-46.92 dB	-27.75 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.55488 GHz	-62.28 dBm	-50.40 dB	-22.51 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.56496 GHz	-62.24 dBm	-50.37 dB	-10.41 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.57472 GHz	-62.15 dBm	-50.27 dB	-10.27 dB

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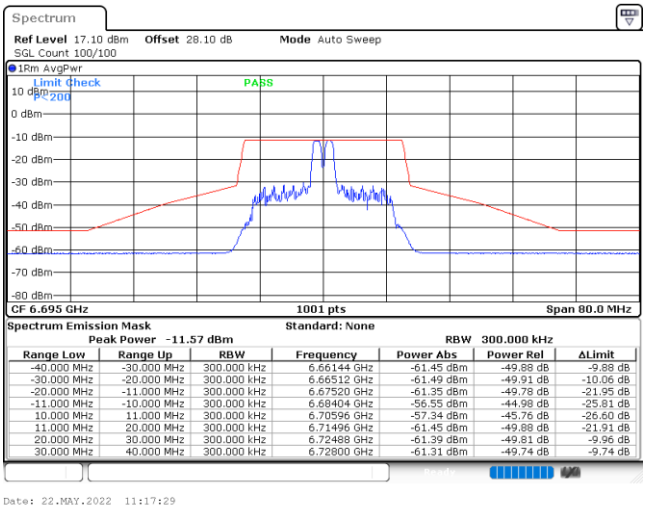
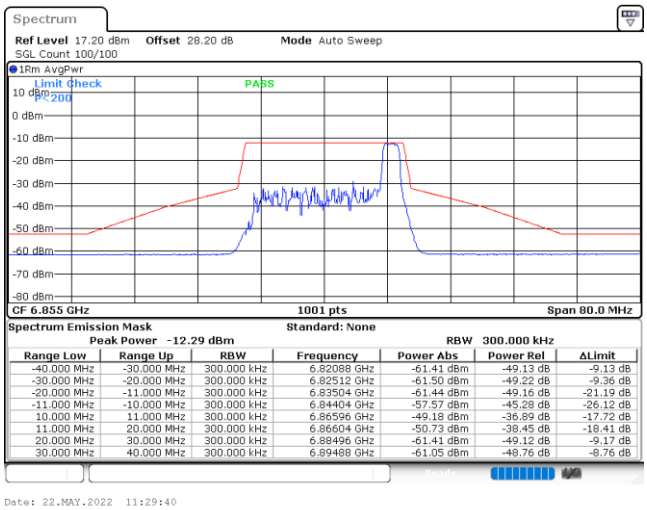
Plot on Channel 6695MHz



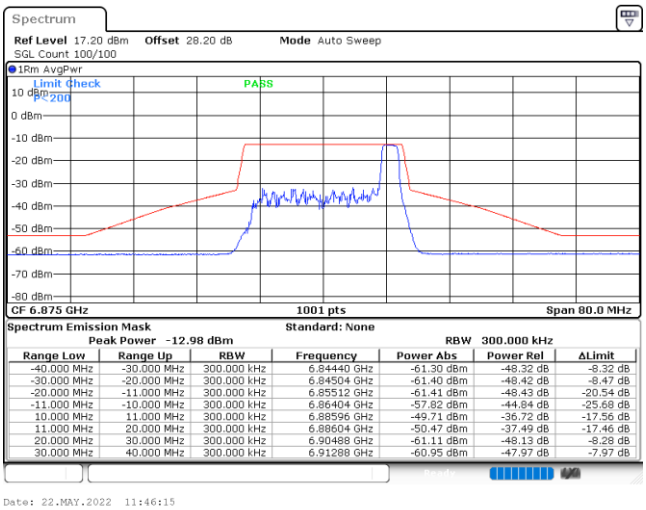
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.66144 GHz	-61.45 dBm	-49.88 dB	-9.88 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.66512 GHz	-61.49 dBm	-49.91 dB	-10.06 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.67520 GHz	-61.35 dBm	-49.78 dB	-21.95 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.68404 GHz	-56.55 dBm	-44.98 dB	-25.81 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.70596 GHz	-57.34 dBm	-45.76 dB	-26.60 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.71496 GHz	-61.45 dBm	-49.88 dB	-21.91 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.72488 GHz	-61.39 dBm	-49.81 dB	-9.96 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.72800 GHz	-61.31 dBm	-49.74 dB	-9.74 dB

Date: 22.MAY.2022 11:17:29

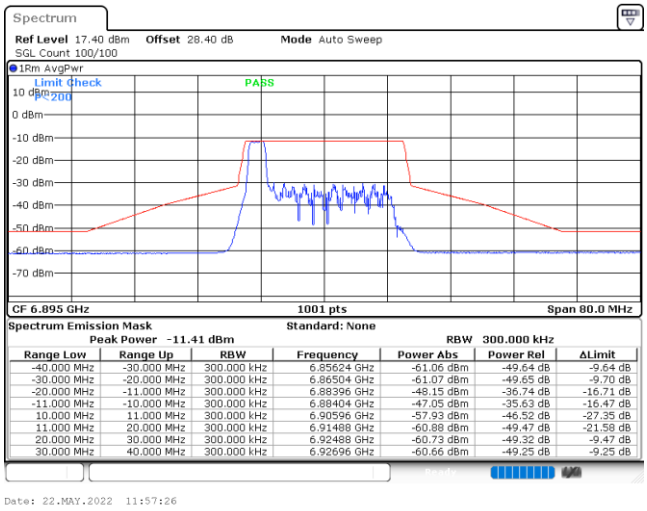
Plot on Channel 6855MHz



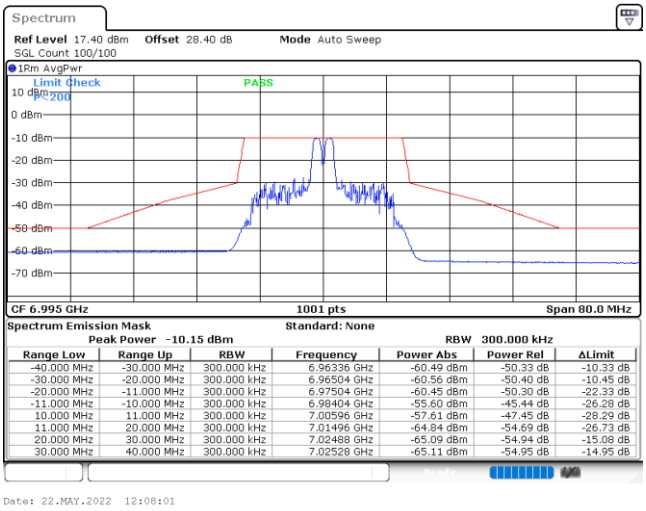
Plot on Channel 6875MHz



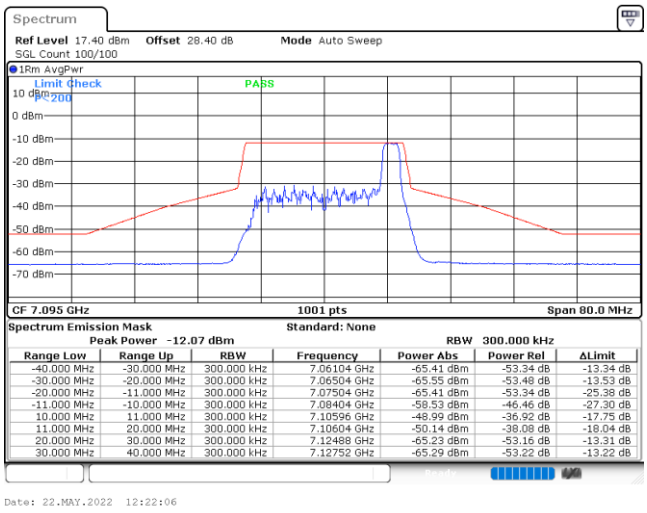
Plot on Channel 6895MHz



Plot on Channel 6995MHz

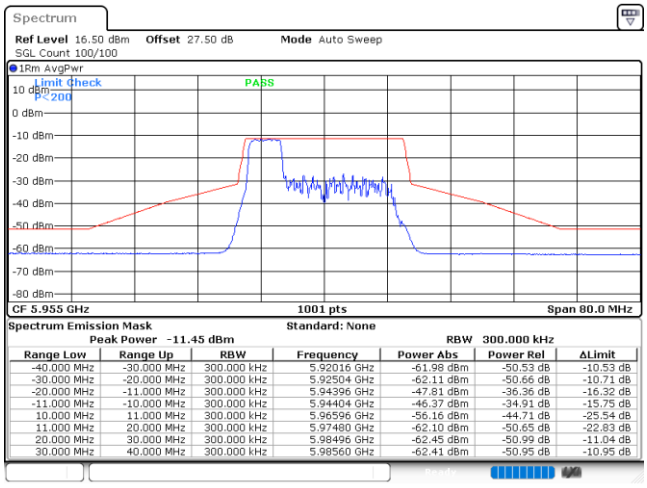


Plot on Channel 7095MHz

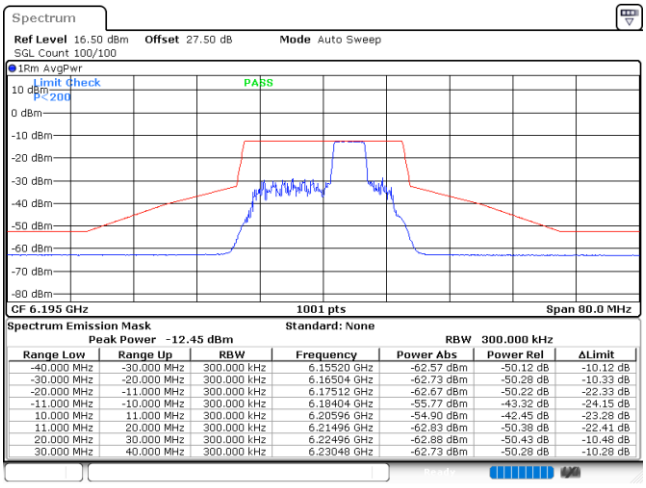


EUT Mode :	802.11ax HE20 52RU

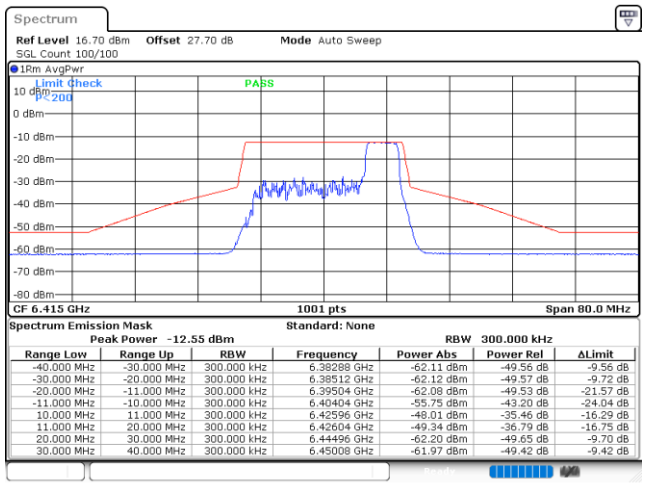
Plot on Channel 5955MHz



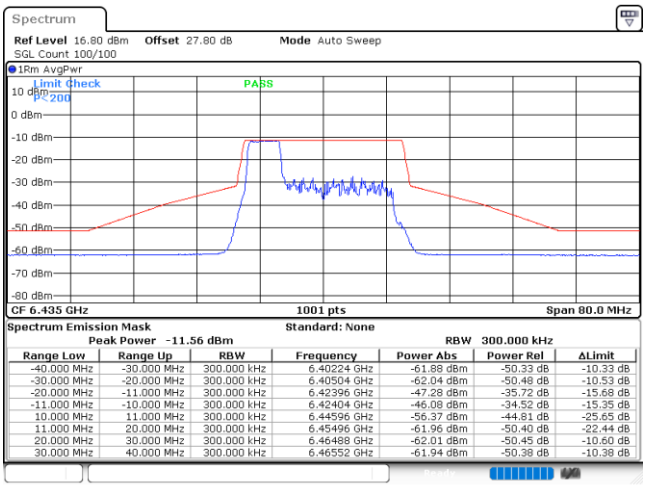
Plot on Channel 6195MHz



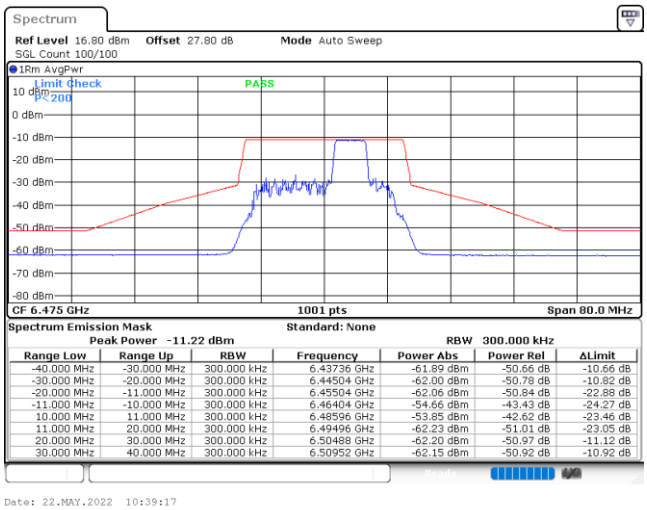
Plot on Channel 6415MHz



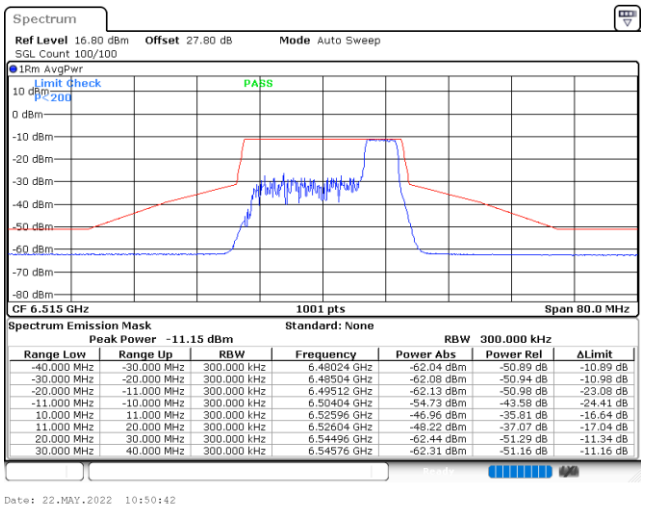
Plot on Channel 6435MHz



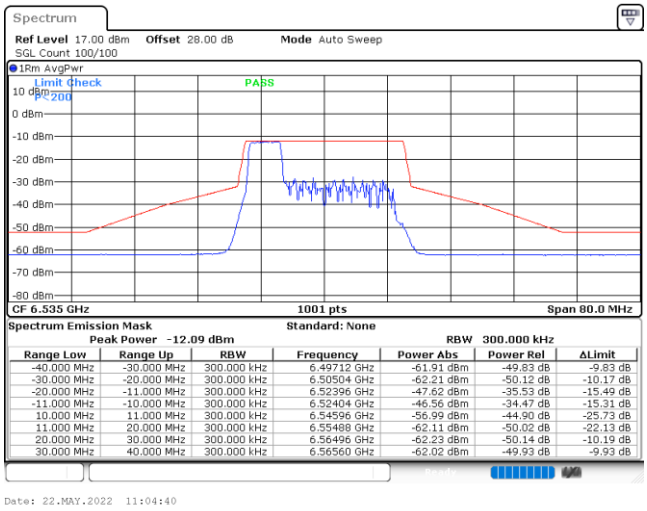
Plot on Channel 6475MHz



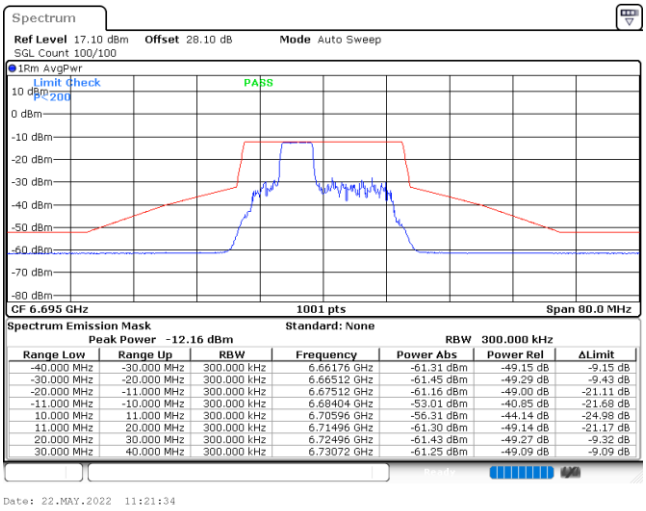
Plot on Channel 6515MHz



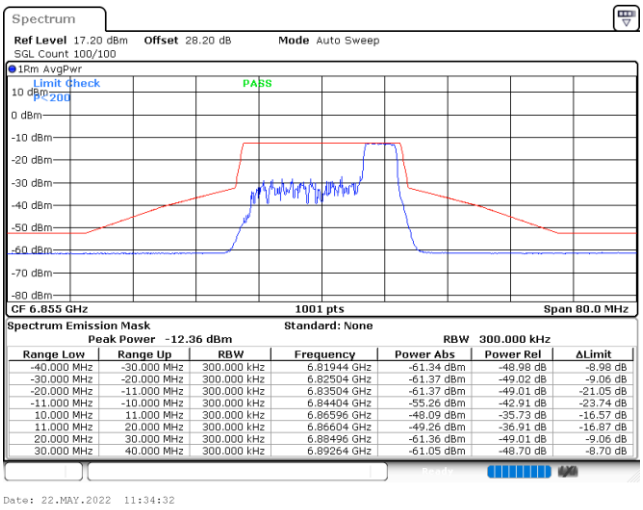
Plot on Channel 6535MHz



Plot on Channel 6695MHz



Plot on Channel 6855MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.81944 GHz	-61.34 dBm	-48.98 dB	-8.98 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.82504 GHz	-61.37 dBm	-49.02 dB	-9.06 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.83504 GHz	-61.37 dBm	-49.01 dB	-21.05 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.84404 GHz	-55.26 dBm	-42.91 dB	-23.74 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.86596 GHz	-48.09 dBm	-35.73 dB	-16.57 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.86604 GHz	-49.26 dBm	-36.91 dB	-16.87 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.88496 GHz	-61.36 dBm	-49.01 dB	-9.06 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.89264 GHz	-61.05 dBm	-48.70 dB	-8.70 dB

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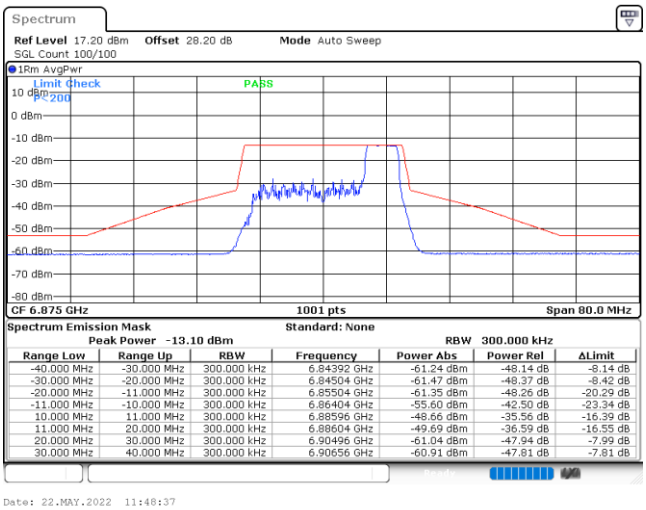
Plot on Channel 6875MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.84392 GHz	-61.24 dBm	-48.14 dB	-8.14 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.84504 GHz	-61.47 dBm	-48.37 dB	-8.42 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.85504 GHz	-61.35 dBm	-48.26 dB	-20.29 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.86404 GHz	-55.60 dBm	-42.50 dB	-23.34 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.88596 GHz	-48.66 dBm	-35.56 dB	-16.39 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.88604 GHz	-49.69 dBm	-36.59 dB	-16.55 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.90496 GHz	-61.04 dBm	-47.94 dB	-7.99 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.90656 GHz	-60.91 dBm	-47.81 dB	-7.81 dB

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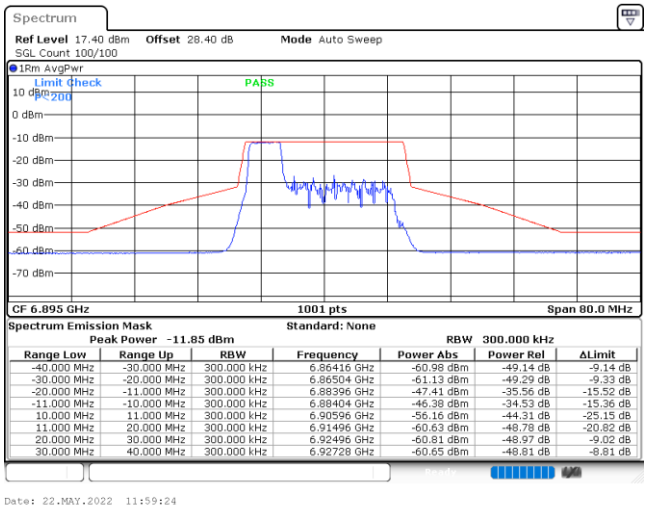
Plot on Channel 6895MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.86416 GHz	-60.98 dBm	-49.14 dB	-9.14 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.86504 GHz	-61.13 dBm	-49.29 dB	-9.33 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.88396 GHz	-47.41 dBm	-35.56 dB	-15.52 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.88404 GHz	-46.38 dBm	-34.53 dB	-15.36 dB
10.000 MHz	11.000 MHz	300.000 kHz	6.90596 GHz	-56.16 dBm	-44.31 dB	-25.15 dB
11.000 MHz	20.000 MHz	300.000 kHz	6.91496 GHz	-60.63 dBm	-48.78 dB	-20.82 dB
20.000 MHz	30.000 MHz	300.000 kHz	6.92496 GHz	-60.81 dBm	-48.97 dB	-9.02 dB
30.000 MHz	40.000 MHz	300.000 kHz	6.92728 GHz	-60.65 dBm	-48.81 dB	-8.81 dB

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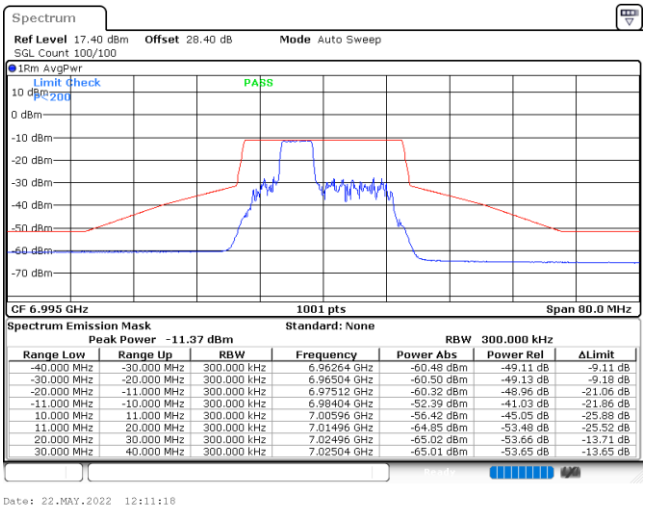
Plot on Channel 6995MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.000 MHz	-30.000 MHz	300.000 kHz	6.96264 GHz	-60.48 dBm	-49.11 dB	-9.11 dB
-30.000 MHz	-20.000 MHz	300.000 kHz	6.96504 GHz	-60.50 dBm	-49.13 dB	-9.18 dB
-20.000 MHz	-11.000 MHz	300.000 kHz	6.97512 GHz	-60.32 dBm	-48.96 dB	-21.06 dB
-11.000 MHz	-10.000 MHz	300.000 kHz	6.98404 GHz	-52.39 dBm	-41.03 dB	-21.86 dB
10.000 MHz	11.000 MHz	300.000 kHz	7.00596 GHz	-56.42 dBm	-45.05 dB	-25.88 dB
11.000 MHz	20.000 MHz	300.000 kHz	7.01496 GHz	-64.85 dBm	-53.48 dB	-25.52 dB
20.000 MHz	30.000 MHz	300.000 kHz	7.02496 GHz	-65.02 dBm	-53.66 dB	-13.71 dB
30.000 MHz	40.000 MHz	300.000 kHz	7.02504 GHz	-65.01 dBm	-53.65 dB	-13.65 dB

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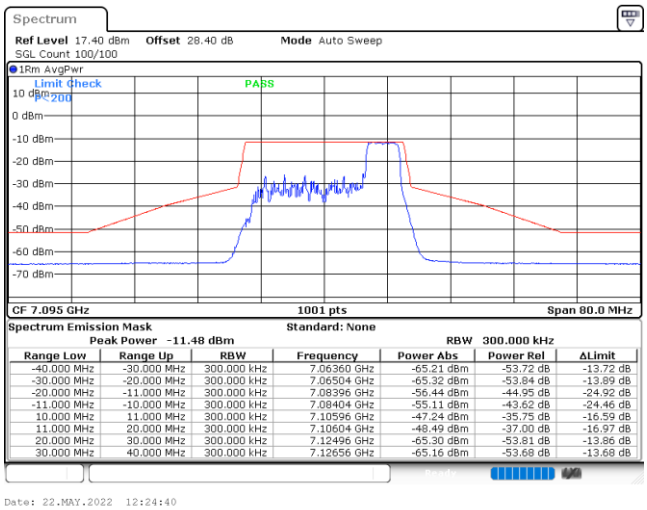
Plot on Channel 7095MHz



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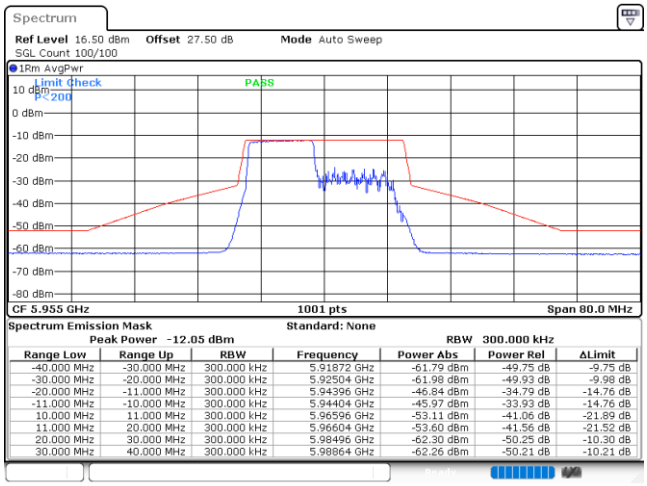
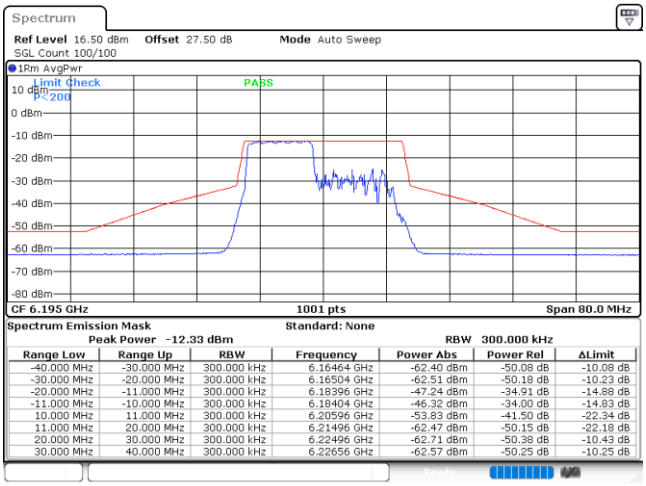
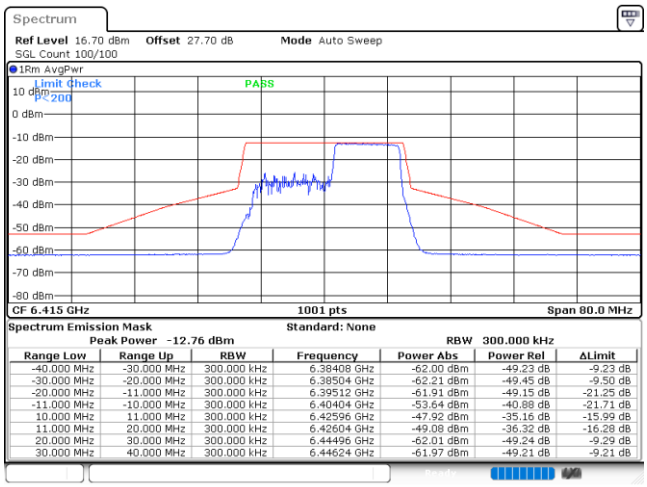
Plot on Channel 5955MHz



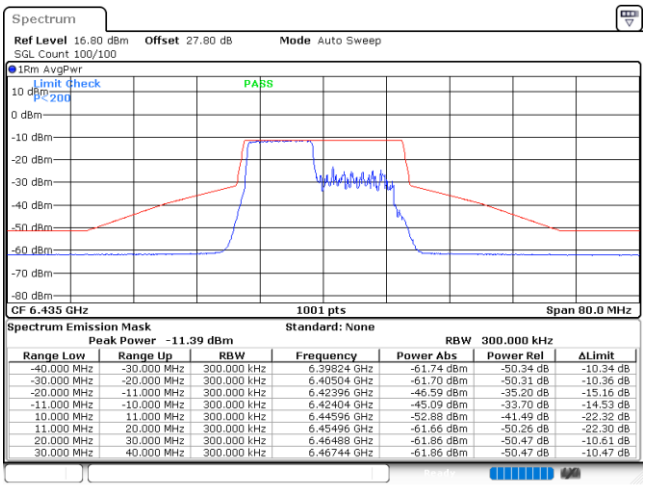
Plot on Channel 6195MHz



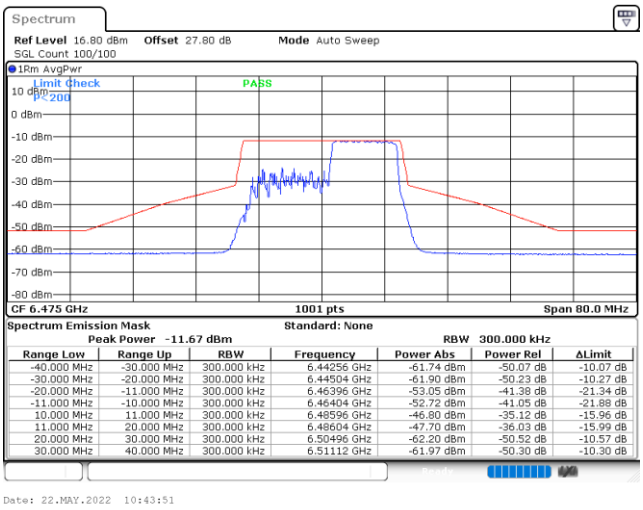
Plot on Channel 6415MHz



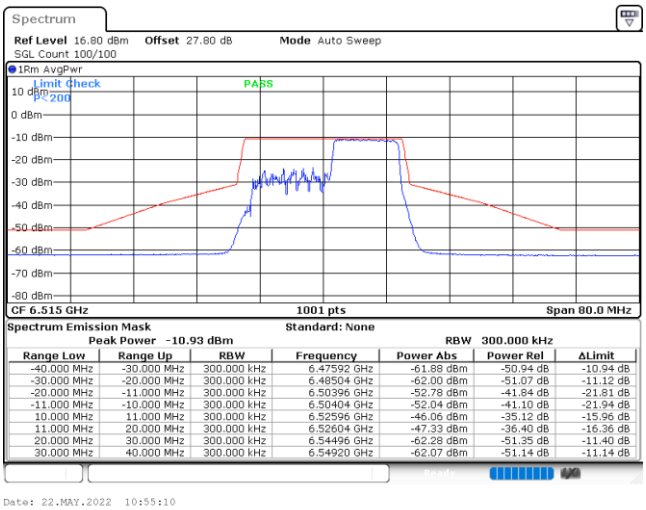
Plot on Channel 6435MHz



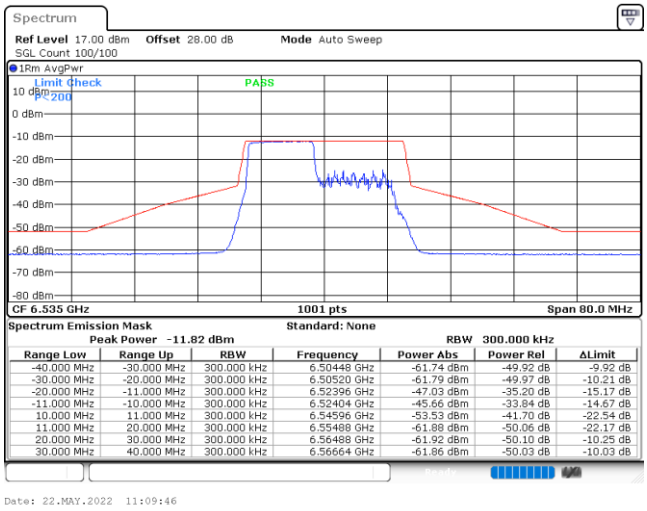
Plot on Channel 6475MHz



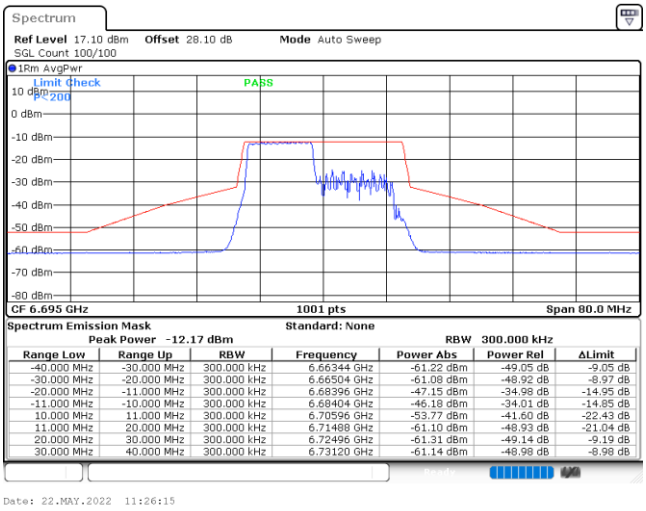
Plot on Channel 6515MHz



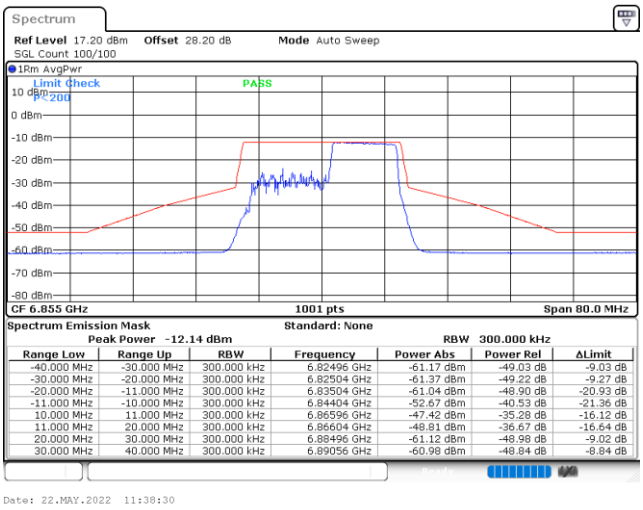
Plot on Channel 6535MHz



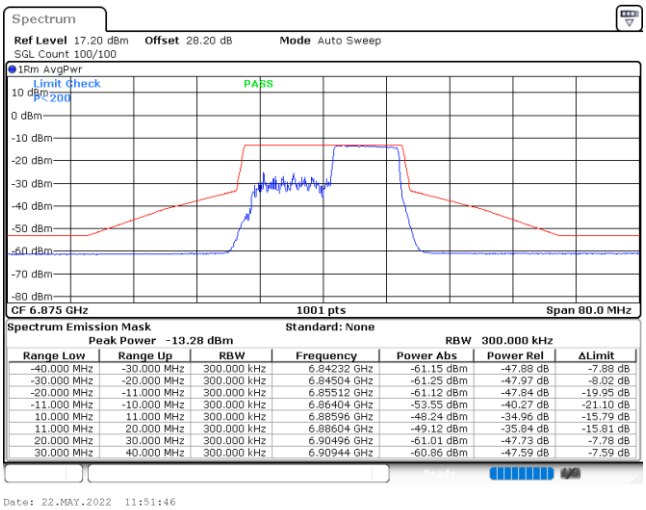
Plot on Channel 6695MHz



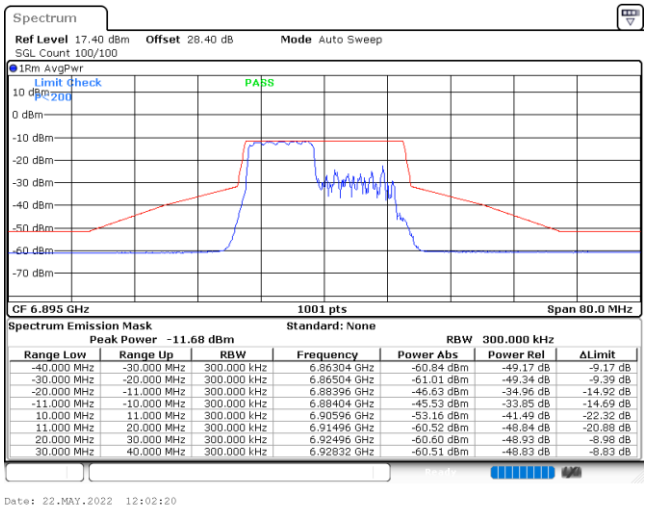
Plot on Channel 6855MHz



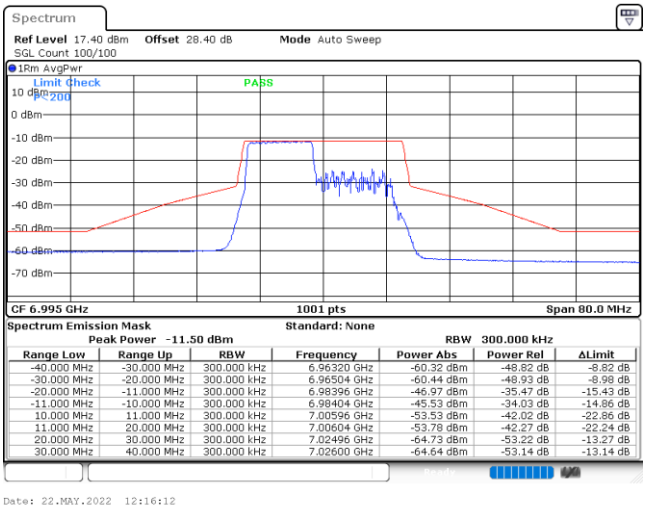
Plot on Channel 6875MHz



Plot on Channel 6895MHz



Plot on Channel 6995MHz



Plot on Channel 7095MHz