



FCC RADIO TEST REPORT

FCC ID	:	2AFZZ123G
Equipment	:	Mobile Phone
Brand Name	:	XIAOMI
Model Name	:	2201123G
Applicant	:	Xiaomi Communications Co., Ltd. #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer	:	Xiaomi Communications Co., Ltd. #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Standard	:	FCC Part 15 Subpart E §15.407

The product was received on Nov. 15, 2021 and testing was performed from Nov. 22, 2021 to Dec. 18, 2021. 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.

Lunis Win

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
FR1N0901I	01	Initial issue of report	Dec. 21, 2021
FR1N0901I	02	 Add table and remark in Product Feature of Equipment Under Test Add PSD plot for each bandwidth. 	Jan. 04, 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)	Maximum Conducted Output Power	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	3.16 dB under the limit at 7125.020 MHz
3.7	15.207	AC Conducted Emission	Pass	15.94 dB under the limit at 2.427 MHz
3.8	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

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: Lewis Ho

Report Producer: Celery Wei



1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE/5G NR, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11ax, NFC, WPT/WPC, and GNSS.

EUT support CDD Mode

Product S	pecification subjective to this standard
Sample 1	8+256G
Sample 2	12+256G
Sample 3	8+128G
	WWAN
	<main>: PIFA Antenna</main>
	<aux.>: PIFA Antenna</aux.>
	WLAN 2.4GHz
	<ant. 16="">: PIFA Antenna</ant.>
	<ant. 18="">: PIFA Antenna</ant.>
	WLAN 5GHz
	<ant. 17="">: PIFA Antenna</ant.>
Antonno Tuno	<ant. 18="">: PIFA Antenna</ant.>
Antenna Type	WLAN 6GHz
	<ant. 17="">: PIFA Antenna</ant.>
	<ant. 18="">: PIFA Antenna</ant.>
	Bluetooth:
	<ant. 16="">: PIFA Antenna</ant.>
	<ant. 18="">: PIFA Antenna</ant.>
	GPS/GIonass/BDS/Galileo/SBAS/QZSS/NavIC: PIFA Antenna
	NFC: Planar Antenna
	WPT/WPC: Coil Antenna



	Antenna information						
5925 MHz ~ 6425 MHz	Peak Gain (dBi)	Ant. 17: -0.4 Ant. 18: -5.0					
6425 MHz ~ 6525 MHz	Peak Gain (dBi)	Ant. 17: -1.6 Ant. 18: -5.7					
6525 MHz ~ 6875 MHz	Peak Gain (dBi)	Ant. 17: -2.0 Ant. 18: -6.0					
6875 MHz ~ 7125 MHz	Peak Gain (dBi)	Ant. 17: -2.9 Ant. 18: -6.8					
Antenna Function Description	802.11ax MIMO	Ant. 17 V	Ant. 18 V				

Remark:

- **1.** MIMO Ant. 17+18 Directional Gain is a calculated result from MIMO Ant.17 and MIMO Ant.18. The formula used in calculation is documented in section 3.8.
- **2.** Power of MIMO Ant.17 + Ant.18 is a calculated result from sum of the power MIMO Ant.17 and MIMO Ant.18.
- **3.** The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 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.
Test Sile No.	TH05-HY; 03CH20-HY
Demerk	The Conducted and Radiation Spurious Emission test items subcontracted to
Remark	Sporton International Inc. Wensan Laboratory.

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

FCC designation No.: TW1190 and TW3786

1.4 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 adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X plane and WPC Charging Mode as worst plane.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

	Channel	1	5	9	13	17	21	25	29	
BW 20M	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095	
	Channel	3	3	1	11		19		27	
BW 40M	Freq. (MHz)	59	65	60	05	60	45	60	85	
BW 80M	Channel		7	7			2	3		
	Freq. (MHz)		59	85			60	65		
BW 160M	Channel				1	5				
BW TOOW	Freq. (MHz)				6025					
	Channel	33	37	41	45	49	53	57	61	
BW 20M	Freq. (MHz)	C11E	6135	6155	6175	6195	6215	6235	6255	
	Freq. (MITZ)	6115	0135	0155	0175	0100				
	Channel		5		.3		51		9	
BW 40M	,	3		4		5			9	
	Channel	3	5 25	4	.3	5	51	5 62	9	
BW 40M BW 80M	Channel Freq. (MHz)	3	5 25 3	4 61	.3	5	1 05	5 5	9	
	Channel Freq. (MHz) Channel	3	5 25 3	4 61 9	.3	5 62	05 5	5 5	9	



	Channel	65	69	73	77	81	85	89	93	
BW 20M	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415	
	Channel	6	7	7	75		83		91	
BW 40M	Freq. (MHz)	62	85	63	25 63		65 6405		05	
	Channel		7	1			8	7		
BW 80M	Freq. (MHz)		63	05			63	85		
DW/ 4COM	Channel				7	9				
BW 160M	Freq. (MHz)				63	45				
	Channel	97	101	105	109	113	117	121	125	
BW 20M	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575	
	Channel	9	9	1()7	1.	15	12	23	
BW 40M	Freq. (MHz)	64	45	64	85	65	25	65	65	
	Channel		1(03			1 1	19		
BW 80M	Freq. (MHz)		64	65			65	45		
BW 160M	Channel				11	11				
	Freq. (MHz)				65	05				
DW cold	Channel	129	133	137	141	145	149	153	157	
BW 20M					0055			0745	6735	
211 2011	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	0735	
	Freq. (MHz) Channel	6595 13		6635 13		6675 14		6715		
BW 40M			31		39		17		55	
BW 40M	Channel	13	31 05	13	39	14	17	15 67	55	
	Channel Freq. (MHz)	13	31 05	13 66 35	39	14	17 85	15 67 51	55	
BW 40M BW 80M	Channel Freq. (MHz) Channel	13	31 05 13	13 66 35	39 45	14	17 85 15	15 67 51	55	
BW 40M	Channel Freq. (MHz) Channel Freq. (MHz)	13	31 05 13	13 66 35	39 45	14 66 43	17 85 15	15 67 51	55	
BW 40M BW 80M BW 160M	Channel Freq. (MHz) Channel Freq. (MHz) Channel	13	31 05 13	13 66 35	39 45 14	14 66 43	17 85 15	15 67 51	55	
BW 40M BW 80M	Channel Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz)	13	31 05 13 66	13 66 35 25	39 45 14 66	14 66 43 65	17 85 15 67	15 67 51 05	55 25	
BW 40M BW 80M BW 160M BW 20M	Channel Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz) Channel	13 66 161 6755	31 05 13 66 165	13 66 35 25 169	39 45 14 66 173 6815	14 66 43 65 177 6835	17 85 15 67 181	15 67 05 185 6875	55 25 189	
BW 40M BW 80M BW 160M	Channel Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz)	13 66 161 6755 16	31 05 13 66 165 6775	13 66 35 25 169 6795 1	39 45 14 66 173 6815	14 66 13 65 177 6835 17	181 6855	15 67 51 05 185 6875 18	55 25 189 6895	
BW 40M BW 80M BW 160M BW 20M BW 40M	Channel Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz) Channel	13 66 161 6755 16	31 05 13 66 165 6775 63 65	13 66 35 25 169 6795 1	39 45 14 66 173 6815 71	14 66 13 65 177 6835 17	181 6855 6855 79	15 67 51 05 185 6875 18 68	55 25 189 6895 37	
BW 40M BW 80M BW 160M BW 20M	Channel Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz)	13 66 161 6755 16	31 05 13 66 165 6775 63 65 10	13 66 35 25 169 6795 17 68	39 45 14 66 173 6815 71	14 66 13 65 177 6835 17	181 6855 670 181 6855 79 45	185 67 05 185 6875 18 6875 18 6833	55 25 189 6895 37	
BW 40M BW 80M BW 160M BW 20M BW 40M	Channel Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz) Channel	13 66 161 6755 16	31 05 13 66 165 6775 63 65 10	13 66 35 25 169 6795 17 68 67	39 45 14 66 173 6815 71 05	14 66 13 65 177 6835 17	47 85 15 67 67 181 6855 79 45 18	185 67 05 185 6875 18 6875 18 6833	55 25 189 6895 37	



BW 20M	Channel	193	197	201	205	209	213	217	221	
	Freq. (MHz)	6915	6935	6955	6975	6995	7015	7035	7055	
BW 40M	Channel	19	95	20)3	2′	11	219		
	Freq. (MHz)	69	25	69	65	70	05	70	45	
BW 80M	Channel		19	99			2′	15		
D VV OUIVI	Freq. (MHz)		69	45			70	25		
BW 160M	Channel				20	207				
DAA LOOIAI	Freq. (MHz)				6985					
DW/ COM	Channel		22	25			22	29		
BW 20M	Freq. (MHz)		70	75			70)95		
BW 40M	Channel			227						
DVV 401VI	Freq. (MHz)				70	85				
DW DOM	Channel				23	33				
BW 20M	Freq. (MHz)				71	15				

2.2 Test Mode

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

MIMO Mode

Modulation	Data Rate
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0

Note:

- 1. Since the verify power, the smaller power can be covered by the higher power. The SISO Mode are covered by MIMO Mode.
- 2. For 802.11ax, since the verify power & PSD, the smaller power can be covered by the higher power. The Partial RU are covered by Full RU.

Test Cases						
AC Conducted Mode 1 : WLAN (6GHz) Link + Bluetooth Link + MPEG 4 + USB Cable 1						
Emission (Charging from AC Adapter) + Battery for Sample 1						
Remark: For Rad	diated Test Cases, the tests were performed with USB Cable 1 and Sample 1.					



		UNII-5	UNII-6	UNII-7	UNII-8	
	Ch. #	(5925-6425 MHz)	(6425-6525 MHz)	(6525-6875 MHz)	(6875-7125 MHz)	
		802.11ax HE20	802.11ax HE20	802.11ax HE20	802.11ax HE20	
L	Low	001			-	
Μ	Middle	-	-	-	-	
н	High	-	-	-	233	
S	Straddle	-	-	-	-	
		UNII-5	UNII-6	UNII-7	UNII-8	
	Ch. #	(5925-6425 MHz)	(6425-6525 MHz)	(6525-6875 MHz)	(6875-7125 MHz)	
		802.11ax HE40	802.11ax HE40	802.11ax HE40	802.11ax HE40	
L	Low	003	-	-	-	
Μ	Middle	-	-	-	-	
н	High	-			227	
S	Straddle	-	-	-	-	
		UNII-5	UNII-6	UNII-7	UNII-8	
	Ch. #	(5925-6425 MHz)	(6425-6525 MHz)	(CEDE COZE MU-)	(6875-7125 MHz)	
		(5925-6425 14172)	(0420 0020 11112)	(6525-6875 MHz)	(6675-7125 14112)	
		802.11ax HE80	802.11ax HE80	802.11ax HE80	802.11ax HE80	
L	Low	. ,		. ,		
L M		802.11ax HE80		. ,		
	Low	802.11ax HE80 007		. ,		
M H	Low Middle	802.11ax HE80 007		. ,	802.11ax HE80 - -	
M H	Low Middle High	802.11ax HE80 007		. ,	802.11ax HE80 -	
M H	Low Middle High	802.11ax HE80 007 - - -	802.11ax HE80 -	802.11ax HE80 - - - -	802.11ax HE80 - - 215 -	
M H	Low Middle High Straddle	802.11ax HE80 007 - - - UNII-5	802.11ax HE80 - - UNII-6	802.11ax HE80 - - - - - UNII-7	802.11ax HE80 - - 215 - UNII-8	
M H	Low Middle High Straddle	802.11ax HE80 007 - - - UNII-5 (5925-6425 MHz)	802.11ax HE80 - - UNII-6 (6425-6525 MHz)	802.11ax HE80 - - - - - UNII-7 (6525-6875 MHz)	802.11ax HE80 - - 215 - UNII-8 (6875-7125 MHz)	
M H	Low Middle High Straddle Ch. #	802.11ax HE80 007 - - - - UNII-5 (5925-6425 MHz) 802.11ax HE160	802.11ax HE80 - - UNII-6 (6425-6525 MHz)	802.11ax HE80 - - - - - UNII-7 (6525-6875 MHz)	802.11ax HE80 - - 215 - UNII-8 (6875-7125 MHz)	
H E	Low Middle High Straddle Ch. # Low	802.11ax HE80 007 - - - - (5925-6425 MHz) 802.11ax HE160 015	802.11ax HE80 - - UNII-6 (6425-6525 MHz)	802.11ax HE80 - - - - UNII-7 (6525-6875 MHz) 802.11ax HE160	802.11ax HE80 - - 215 - UNII-8 (6875-7125 MHz) 802.11ax HE160	

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

175

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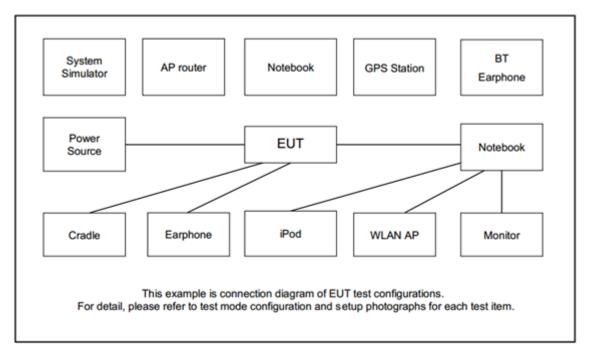
-

Straddle

_



2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

ltem	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	GT-AXE11000	MSQ-RTAXJF00	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	DELL	Latitude5310	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Wireless Charger	YU-live	K8	N/A	N/A	N/A



2.5 EUT Operation Test Setup

For WLAN Tx test items, EUT (SW: MIUI13) get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

For Partial RU test items, utility "QSPR Version 5.0-00188" 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.

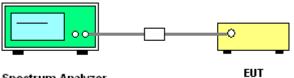
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

- 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
- 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%.
- 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



Spectrum Analyzer

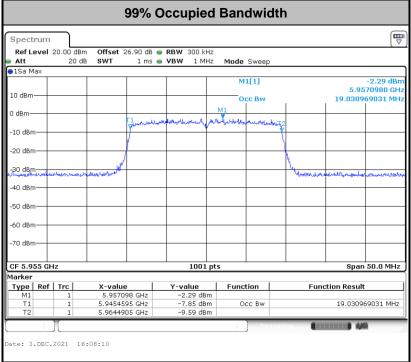
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



<802.11ax HE20 Mode>

26dB Bandwidth								
Spectrum								
Ref Level 30.00 dBm	Offset 26.90 dB 👄	RBW 300 kHz						
Att 20 dB	SWT 1 ms 👄	VBW 1 MHz N	lode Sweep					
●1Pk View			M1[1]		27.04 dBm			
			MILI		42000 GHz			
20 dBm			—D2[1]		-2.58 dB			
				21	.9000 MHz			
10 dBm								
0 dBm D1 -2.120 dBr								
UT -2.120 dBi	writhy	restancing	mollestal and some my					
-10 dBm								
-20 dBm			_					
	- N		- I N					
-30 dBm D2 -28.1	120 dBm			2 martines an approved for	1			
and and a stand of the second s	Manfeed			we are an area and a second	altalate tana ani-yay			
-40 dBm								
-50 dBm								
-60 dBm								
CF 5.955 GHz		1001 pts		Span	50.0 MHz			
			Measurin	-				
ate: 3.DEC.2021 15:5	8:54							

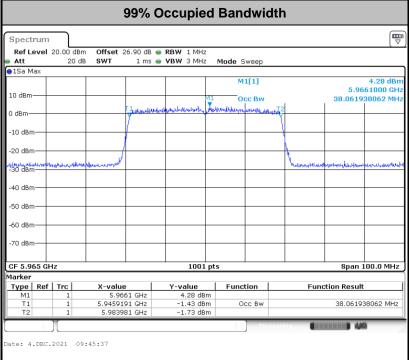


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



<802.11ax HE40 Mode>

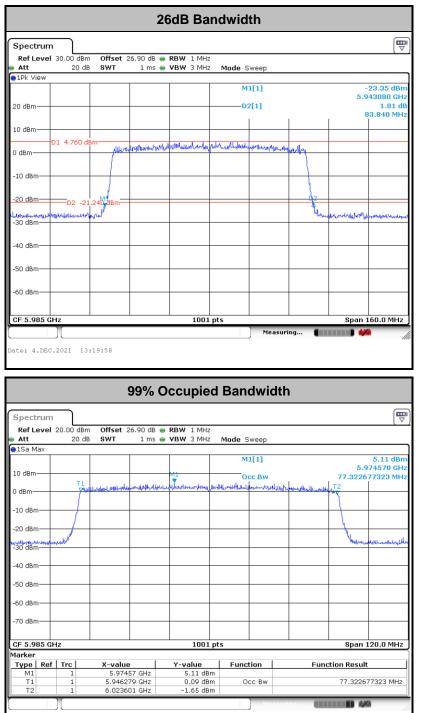
	26dB Ba	andwidth	
Spectrum			
	et 26.90 dB 👄 RBW 300 1 ms 👄 VBW 11		
Att 20 dB SW1	Ims 🖷 VBW II	MHz Mode Sweep	
20 dBm		M1[1]	-28.86 dBm 5.9446600 GHz 0.32 dB 40.5900 MHz
10 dBm			
0 dBm 01 -1.620 dBm			
D1 -1.620 dBm	- Murilum un pour ander	1 Marhould and post when being	
-10 dBm			
-20 dBm			
-30 dBm D2 -27.620 dB			the work was a second with the second
-40 dBm			
-50 dBm			
-60 dBm			
CF 5.965 GHz	100	1 pts	Span 90.0 MHz
GF 3.903 GH2	100	Measurin	
Date: 4.DEC.2021 09:45:05			y
	99% Occupi	ed Bandwidth	



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



<802.11ax HE80 Mode>



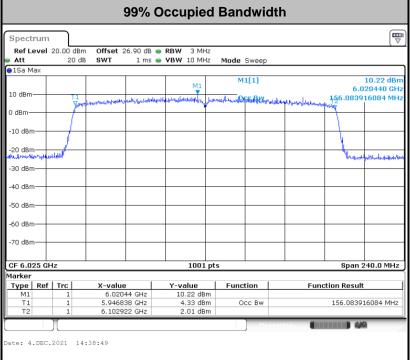
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

ate: 4.DEC.2021 13:20:30



<802.11ax HE160 Mode>

			26	6dB Ba	ndwid	th			
Spectrum	ſ								
Ref Level 30.	00 dBm	Offset 2	6.90 dB 👄	RBW 2 MH	lz				(+)
Att	20 dB	SWT	1 ms 😑	VBW 10 MH	z Mode	Sweep			
9 1Pk View						1[1] 2[1]		5.9	-17.45 dBm 042120 GHz -1.29 dB 56.080 MHz
10 dBmD1 8	3.890 dBm			and the second	heath the			<u> </u>	
0 dBm		patronited	LUKTPrestor and a second s	walkhange		mytheman	herry		
-10 dBm		Mi							
-20 dBm-	D2 -17.1	1					L. Leve	al adolf also to be a close	وراردوارا والإنسانية
-30 dBm									
-40 dBm									
-50 dBm									
-60 dBm									
CF 6.025 GHz				1001	pts			Span	320.0 MHz
Date: 4.DEC.202	21 14:3	8:28) Measur	ing 🔳	••••	
		ļ	99% O	ccupie	d Ban	dwidth	ı		
Spectrum	 ר								



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

3.2 Maximum conducted Output Power and 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.

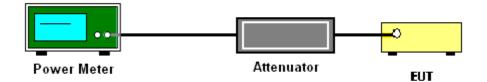
3.2.3 Test Procedures

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

Method PM (Measurement using an RF average power meter):

- 1. Measurement is performed using a wideband RF power meter.
- 2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
- 3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.
- 4. 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-3

(power averaging (rms) detection with max hold):

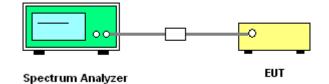
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep \geq 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
 Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
- 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.



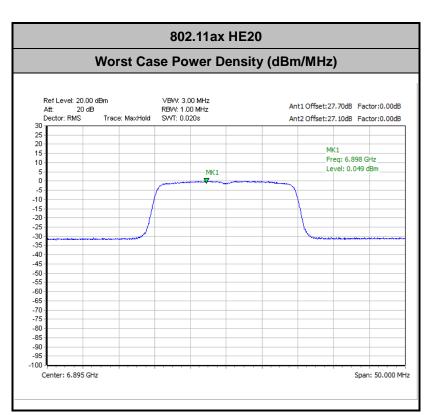
3.3.4 Test Setup



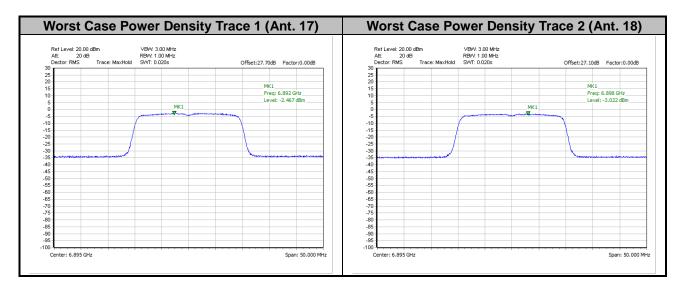
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

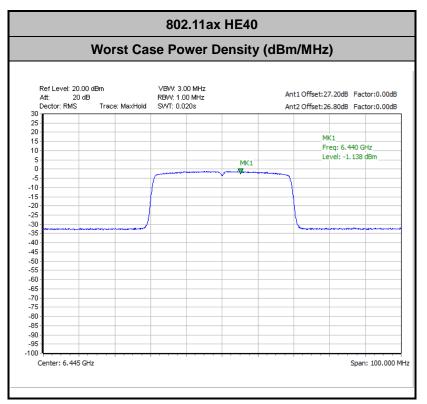




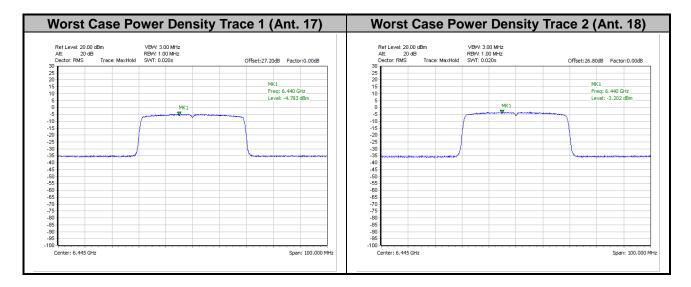
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.



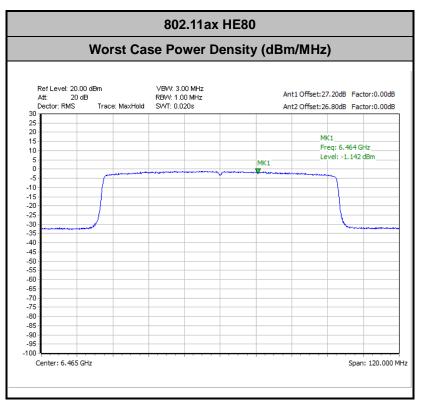




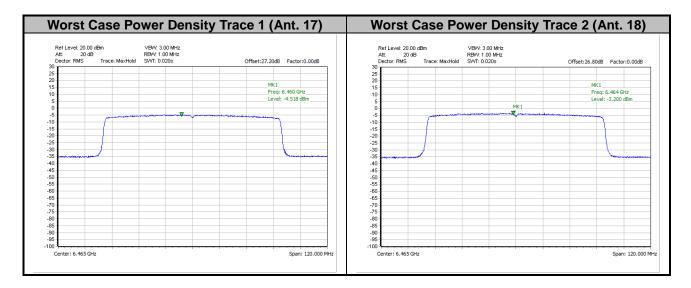
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.



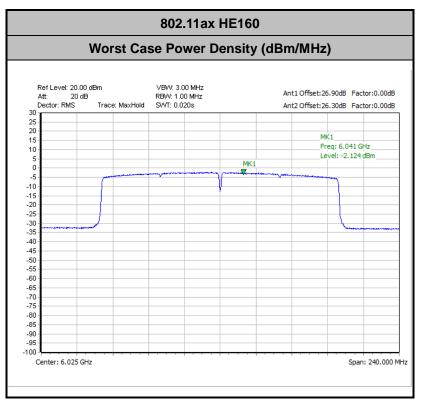




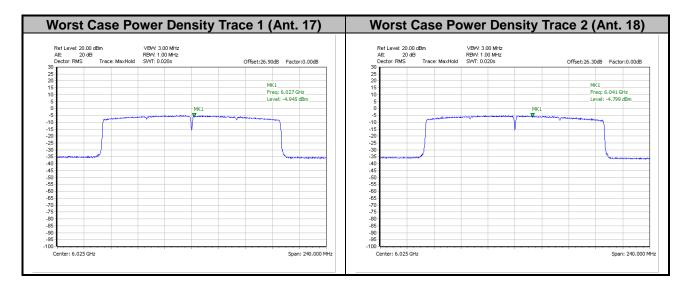
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.













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.

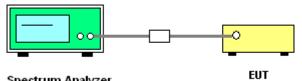
Section J) In-Band Emissions.

- 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 \geq [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



Spectrum Analyzer



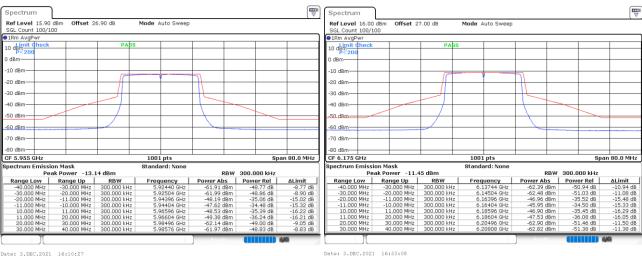
802.11ax HE20

3.4.5 Test Result

MIMO <Ant. 17+18(17)>

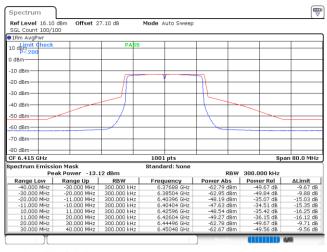
EUT Mode :

Plot on Channel 5955MHz



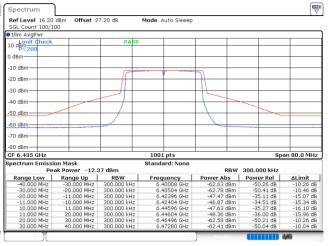
Date: 3.DEC.2021 16:10:27

Plot on Channel 6415MHz



Plot on Channel 6435MHz

Plot on Channel 6175MHz

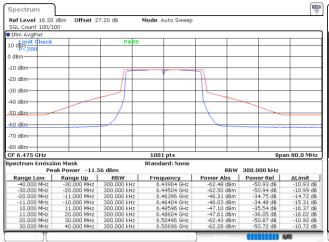


Date: 3.DEC.2021 17:19:46

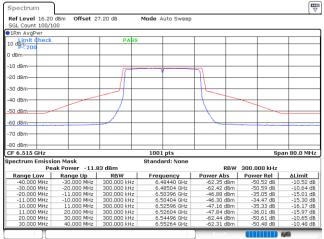
Date: 3.DEC.2021 18:52:50



Plot on Channel 6475MHz

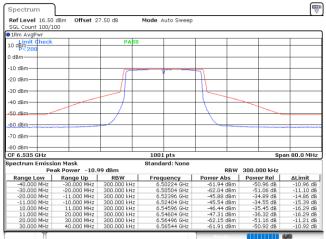


Plot on Channel 6515MHz



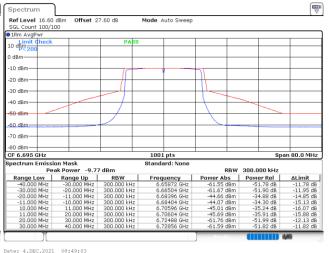
Date: 3.DEC.2021 18:58:03

Plot on Channel 6535MHz



Date: 4.DEC.2021 08:35:48

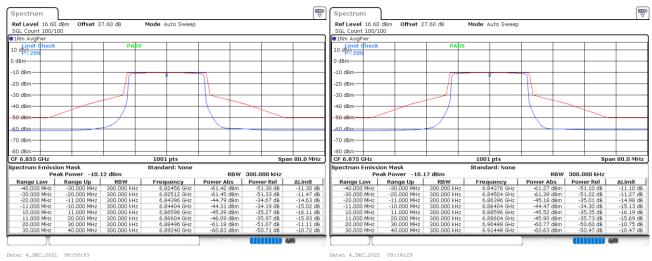
Plot on Channel 6695MHz



Date: 4.DEC.2021 08:41:25

Plot on Channel 6855MHz

Plot on Channel 6875MHz

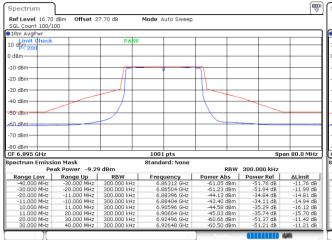


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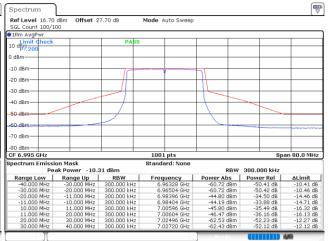
: Jan. 04, 2022



Plot on Channel 6895MHz



Plot on Channel 6995MHz



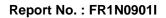
Date: 4.DEC.2021 09:21:28

Date: 4.DEC.2021 09:24:54

Plot on Channel 7115MHz

Spectrum						
Ref Level 16.70	dBm Offset 2	7.70 dB	Mode Auto Sweep			
SGL Count 100/1	00					
1Rm AvgPwr						
Limit Check		PASS				
10 dBm 200						
l dBm						
ubili						
10 dBm						_
20 dBm		1				
30 dBm				11		
30 dBm						
40 dBm						
50 dBm						-
60 dBm						
70 dBm						
/ Ubini						
80 dBm						
F 7.115 GHz			1001 pts		Sp	an 80.0 MH
pectrum Emissi	on Mask		Standard: None			
Pe	ak Power -19.	32 dBm		RBW	300.000 kHz	
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	∆Limit
-40.000 MHz	-30.000 MHz	300.000 kHz	7.07600 GHz	-63.59 dBm	-44.27 dB	-4.27 di
-30.000 MHz	-20.000 MHz	300.000 kHz	7.08504 GHz	-63.81 dBm	-44.48 dB	-4.53 di
-20.000 MHz	-11.000 MHz	300.000 kHz	7.10396 GHz	-53.83 dBm	-34.51 dB	-14.48 di
-11.000 MHz	-10.000 MHz	300.000 kHz	7.10404 GHz	-53.43 dBm	-34.11 dB	-14.94 di
10.000 MHz	11.000 MHz	300.000 kHz	7.12596 GHz	-54.40 dBm	-35.08 dB	-15.92 d
11.000 MHz	20.000 MHz	300.000 kHz	7.12604 GHz	-54.82 dBm	-35.50 dB	-15.47 di
20.000 MHz	30.000 MHz	300.000 kHz	7.14496 GHz	-64.09 dBm	-44.77 dB	-4.82 di
30.000 MHz	40.000 MHz	300.000 kHz	7.15192 GHz	-63.88 dBm	-44.56 dB	-4.56 dl
30.000 MHz						

Date: 4.DEC.2021 09:36:59

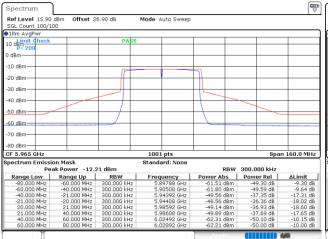




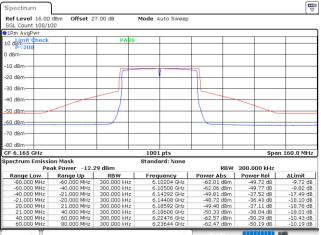
EUT Mode :

802.11ax HE40

Plot on Channel 5965MHz



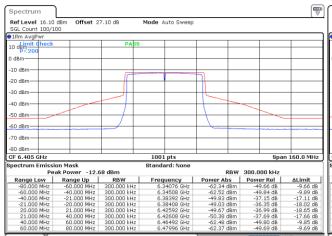
Plot on Channel 6165MHz



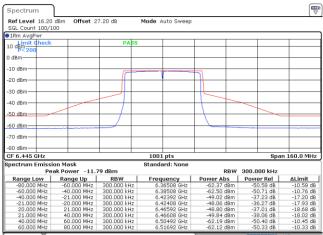
Date: 4.DEC.2021 09:46:08

Date: 4.DEC.2021 09:49:40

Plot on Channel 6405MHz



Plot on Channel 6445MHz

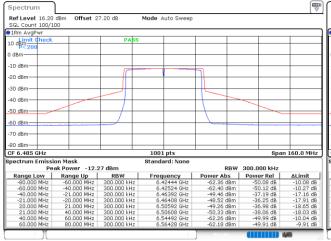


Date: 4.DEC.2021 09:53:45

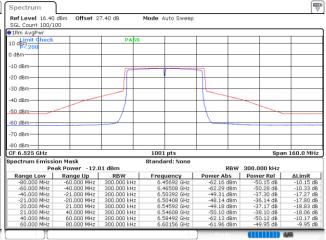
Date: 4.DEC.2021 09:58:32



Plot on Channel 6485MHz

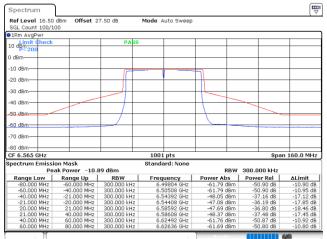


Plot on Channel 6525MHz



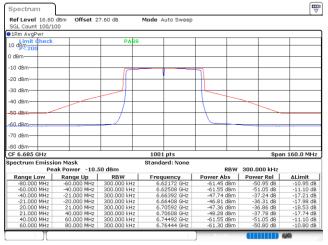
Date: 4.DEC.2021 10:03:11

Plot on Channel 6565MHz



Date: 4.DEC.2021 10:18:28

Plot on Channel 6685MHz

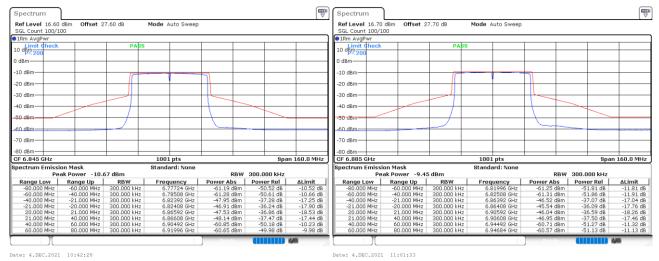


Date: 4.DEC.2021 10:29:30

Plot on Channel 6845MHz

Date: 4.DEC.2021 10:38:24

Plot on Channel 6885MHz

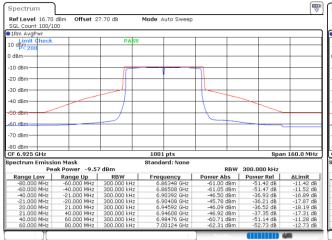


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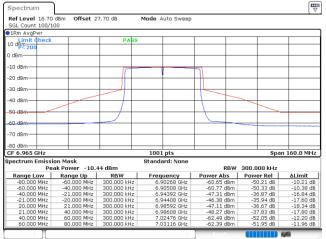


Plot on Channel 6925MHz



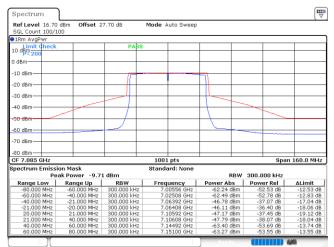
Plot on Channel 6965MHz

Date: 4.DEC.2021 12:49:08

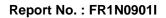


Plot on Channel 7085MHz

Date: 4.DEC.2021 11:09:07



Date: 4.DEC.2021 12:54:30

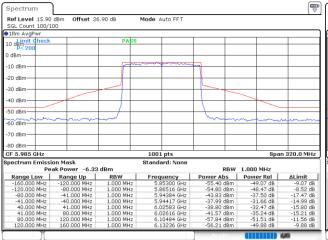




EUT Mode :

802.11ax HE80

Plot on Channel 5985MHz

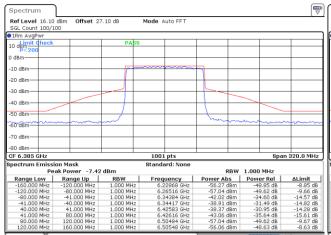


Offset 27.00 dB Ref Level 16.00 SGL Count 100/1 Mode Auto FFT 0/100 1Rm Avg 10 dem) dBr -10 dBr 20 dBm -30 dBm 40 dBm -50 dBm -60 dBm- i dBm 2 dBm F 6.145 GHz Dectrum Emission Mask Peak Power 7.10 dBm Range Low Range Up RBW -160.000 MHz -1000 MHz -1000 MHz -100.000 HHz -40.000 MHz 1.000 MHz -20.000 MHz -40.000 MHz 1.000 MHz -41.000 MHz -40.000 MHz 1.0000 MHz -000 MHz 41.000 MHz 1.0000 MHz -100 MHz 120.000 MHz 1.0000 MHz -100 MHz 1.000 MHz 1.0000 MHz -100 MHz 1.000 MHz 1.000 MHz -70 dBm 1001 pts Span 320.0 MHz RBW 1.000 MHz Power Abs requency 5.98548 GHz 6.02516 GHz 6.10384 GHz 6.10417 GHz 6.18583 GHz 6.18616 GHz 6.26484 GHz 6.29204 GHz -8.15 dB -9.65 dB -14.65 dB -13.77 dB -16.96 dB -14.32 dB -10.64 dB -9.23 dB -55 -56 -41 -37 40 .70 dBm .78 dBm -40.73 dBm -41.45 dBm -57.69 dBm -56.33 dBm

Date: 4.DEC.2021 13:21:06

Date: 4.DEC.2021 13:26:31

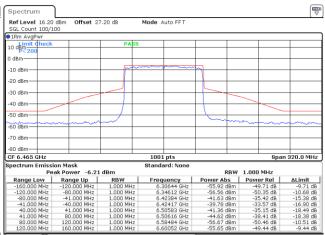
Plot on Channel 6385MHz



Date: 4.DEC.2021 13:32:42

Plot on Channel 6465MHz

Plot on Channel 6145MHz

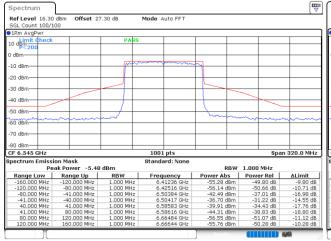


Date: 4.DEC.2021 13:44:29

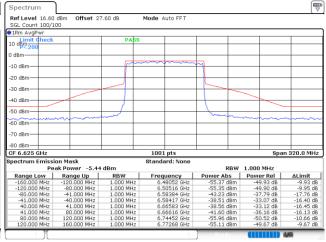
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Plot on Channel 6545MHz

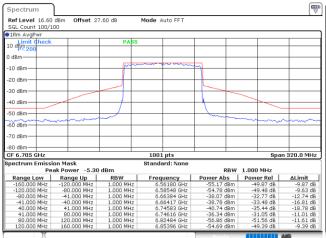


Plot on Channel 6625MHz



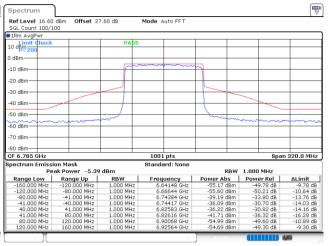
Date: 4.DEC.2021 13:49:33

Plot on Channel 6705MHz



Plot on Channel 6785MHz

Date: 4.DEC.2021 13:55:26

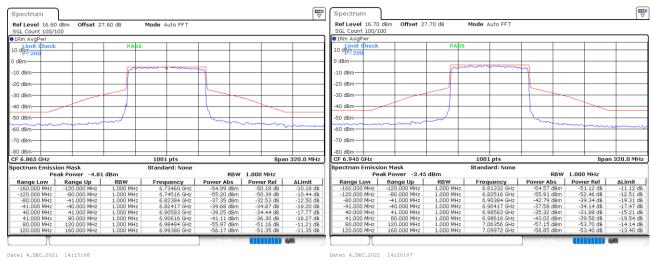


Date: 4.DEC.2021 14:00:25

Plot on Channel 6865MHz

Date: 4.DEC.2021 14:10:09

Plot on Channel 6945MHz

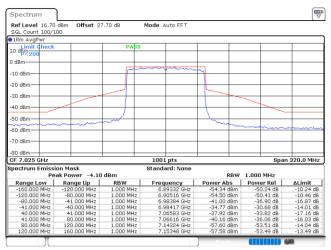


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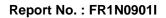
: Jan. 04, 2022



Plot on Channel 7025MHz



Date: 4.DEC.2021 14:24:29

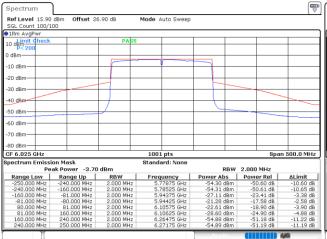




EUT Mode :

802.11ax HE160

Plot on Channel 6025MHz

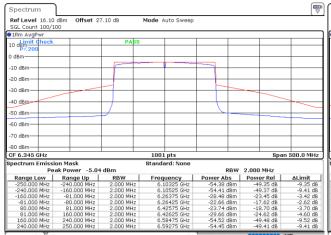


Spectrum Ref Level 16.00 dBm Offset 27.00 dB SGL Count 100/100 Mode Auto Sweep • 1Rm AvgP 10 dem) dBm--10 dBm -20 dBm--30 dBm 40 dBm--50 dBm--60 dBm--70 dBmnAb 08 CF 6.185 GHz 1001 pts Span 500.0 MHz ssion Mask Peak Power Pectrum Emissio Peal Range Low | -250.000 MHz -240.000 MHz -160.000 MHz -80.000 MHz -80.000 MHz 160.000 MHz 240.000 MHz RBW 2.000 MHz Power Abs Power Rel -54.00 dbm -49.66 db -53.99 dbm -49.64 db -27.73 dbm -23.39 db -21.94 dbm -17.59 dB -23.18 dbm -18.84 db -4.35 dBm Bit Dower -4.35 dBm Range Up RBW -240.000 MHz 2.000 MHz -160.000 MHz 2.000 MHz -60.000 MHz 2.000 MHz -80.000 MHz 2.000 MHz -80.000 MHz 2.000 MHz -80.000 MHz 2.000 MHz -80.000 MHz 2.000 MHz 240.000 MHz 2.000 MHz 240.000 MHz 2.000 MHz 250.000 MHz 2.000 MHz 250.000 MHz 2.000 MHz Frequency 5.93775 GHz 5.94525 GHz 6.10375 GHz 6.26575 GHz 6.26625 GHz 6.42425 GHz 6.43025 GHz -9.66 dB -9.68 dB -3.36 dB -2.59 dB -3.84 dB -4.73 dB -10.61 dB -10.53 dB -29.10 dBm -29.10 dBm -54.84 dBm -54.87 dBm dE

Date: 4.DEC.2021 14:39:29

Date: 4.DEC.2021 14:43:42

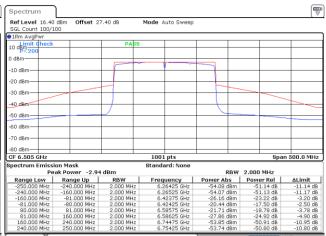
Plot on Channel 6345MHz



Date: 4.DEC.2021 14:47:04

Plot on Channel 6505MHz

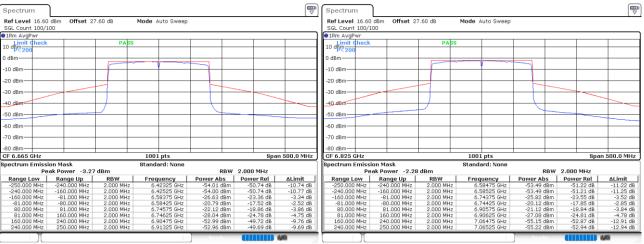
Plot on Channel 6185MHz



Date: 4.DEC.2021 14:52:59



Plot on Channel 6665MHz



Date: 4.DEC.2021 14:58:49

Date: 4.DEC.2021 15:07:20

Plot on Channel 6825MHz

Plot on Channel 6985MHz

Ref Level 16.70		.70 dB	Mode Auto Sweep			
GL Count 100/1	00					
1Rm AvgPwr						
0 dB型 200		PASS				_
dBm						-
10 dBm						
TO OBIII						
20 dBm						
30 dBm						
40_dBm						
TO ODIN						
50 dBm						_
50 dBm						-
70 dBm						
/U dBm						
30 dBm						
E 6.985 GHz			1001 pts		Snai	n 500.0 MH;
ectrum Emissi	on Mack		Standard: None			
	ak Power -2.31	dBm	standard, None	RBW	2.000 MHz	
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	∆Limit
-250.000 MHz	-240.000 MHz	2.000 MHz	6.74475 GHz	-53.16 dBm	-50.84 dB	-10.84 dB
	-160.000 MHz	2.000 MHz	6.74525 GHz	-53.14 dBm	-50.82 dB	-10.86 dB
-240.000 MHz	-81.000 MHz	2.000 MHz	6.90375 GHz	-25.80 dBm	-23.49 dB	-3.46 dB
		2.000 MHz	6.90425 GHz	-20.02 dBm	-17.71 dB	-2.71 dB
-240.000 MHz -160.000 MHz -81.000 MHz	-80.000 MHz					-4.61 dB
-240.000 MHz -160.000 MHz -81.000 MHz 80.000 MHz	-80.000 MHz 81.000 MHz	2.000 MHz	7.06575 GHz	-21.93 dBm	-19.61 dB	
-240.000 MHz -160.000 MHz -81.000 MHz 80.000 MHz 81.000 MHz	-80.000 MHz 81.000 MHz 160.000 MHz	2.000 MHz 2.000 MHz	7.06625 GHz	-27.67 dBm	-25.35 dB	-5.33 dB
-240.000 MHz -160.000 MHz -81.000 MHz 80.000 MHz	-80.000 MHz 81.000 MHz	2.000 MHz				

Date: 4.DEC.2021 15:47:41

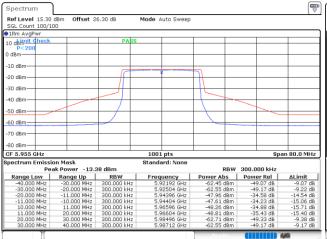


MIMO <Ant. 17+18(18)>

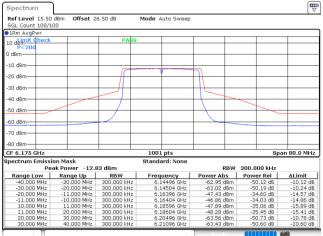
EUT Mode :

802.11ax HE20

Plot on Channel 5955MHz



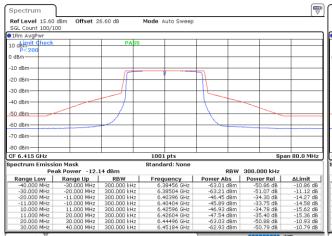
Plot on Channel 6175MHz



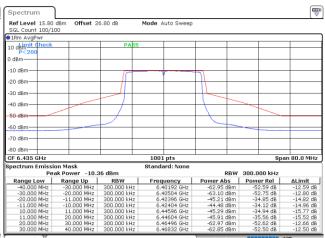
Date: 3.DEC.2021 16:17:15

Date: 3.DEC.2021 16:41:52

Plot on Channel 6415MHz



Plot on Channel 6435MHz



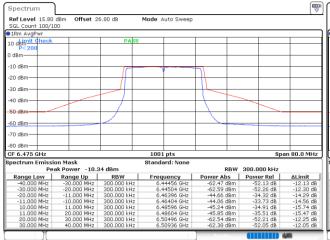
Date: 3.DEC.2021 18:01:24

Date: 3.DEC.2021 18:55:19

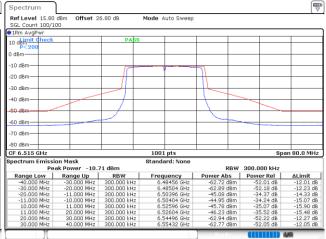
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Plot on Channel 6475MHz

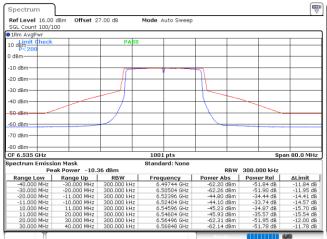


Plot on Channel 6515MHz



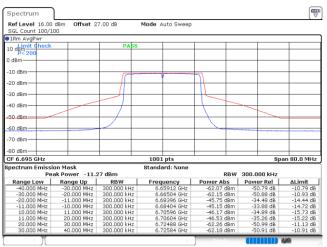
Date: 3.DEC.2021 19:00:41

Plot on Channel 6535MHz



Plot on Channel 6695MHz

Date: 4.DEC.2021 08:37:11

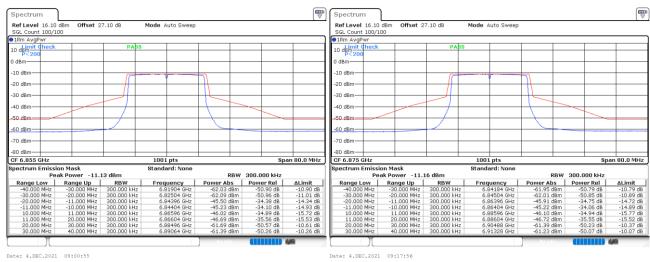


Date: 4.DEC.2021 08:45:06

Plot on Channel 6855MHz

Date: 4.DEC.2021 08:52:51

Plot on Channel 6875MHz

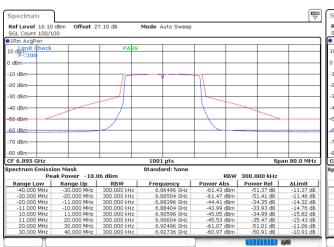


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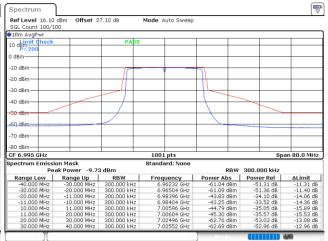
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Plot on Channel 6895MHz



Plot on Channel 6995MHz



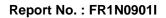
Date: 4.DEC.2021 09:22:42

Date: 4.DEC.2021 09:26:53

Plot on Channel 7115MHz

·						[4
Ref Level 16.10		7.10 dB	Mode Auto Sweep			
5GL Count 100/1	00					
1Rm AvgPwr						
0 dem P<200		PASS				_
dBm						
10 dBm						
TO UBIII						
20 dBm						
			*			
30 dBm						
40 dBm						
40 UBIII						
50 dBm					-	
60 dBm					_	
70 dBm						
, o ubili						
80 dBm						
F 7.115 GHz			1001 pts		Sp	an 80.0 MH
pectrum Emissi	on Mask		Standard: None			
Pe	ak Power -21.3	29 dBm		RBW	300.000 kHz	
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	∆Limit
-40.000 MHz	-30.000 MHz	300.000 kHz	7.07880 GHz	-64.20 dBm	-42.91 dB	-2.91 di
-30.000 MHz	-20.000 MHz	300.000 kHz	7.08504 GHz	-64.35 dBm	-43.06 dB	-3.11 di
-20.000 MHz	-11.000 MHz	300.000 kHz	7.10396 GHz	-55.87 dBm	-34.59 dB	-14.55 d
-11.000 MHz	-10.000 MHz	300.000 kHz	7.10404 GHz	-55.62 dBm	-34.33 dB	-15.16 d
10.000 MHz	11.000 MHz	300.000 kHz	7.12596 GHz	-56.19 dBm	-34.91 dB	-15.74 di
11.000 MHz	20.000 MHz	300.000 kHz	7.12604 GHz	-56.47 dBm	-35.18 dB	-15.14 di
20.000 MHz	30.000 MHz	300.000 kHz	7.14496 GHz	-64.56 dBm	-43.27 dB	-3.32 di
	40.000 MHz	300.000 kHz	7.14848 GHz	-64.49 dBm	-43.20 dB	-3.20 d
30.000 MHz	40.000 MH2					

Date: 4.DEC.2021 09:40:46

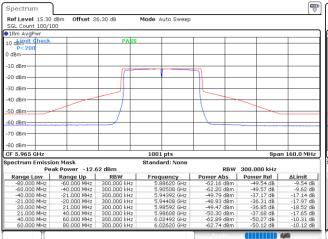




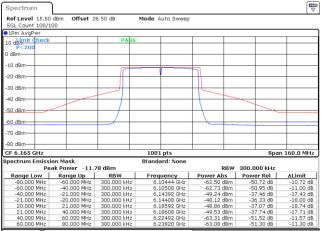
EUT Mode :

802.11ax HE40

Plot on Channel 5965MHz



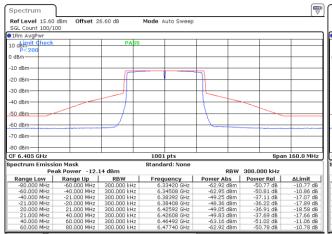
Plot on Channel 6165MHz



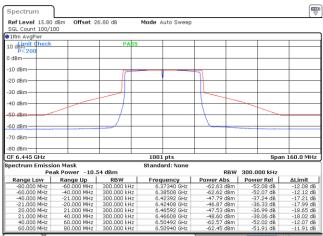
Date: 4.DEC.2021 09:47:26

Date: 4.DEC.2021 09:51:11

Plot on Channel 6405MHz



Plot on Channel 6445MHz

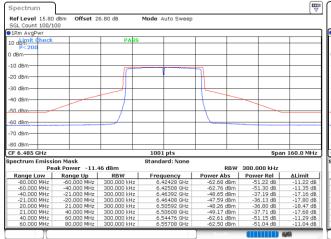


Date: 4.DEC.2021 09:55:23

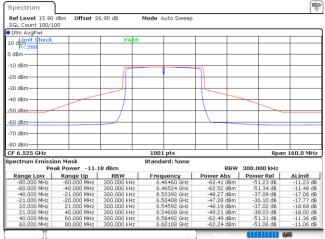
Date: 4.DEC.2021 10:01:16



Plot on Channel 6485MHz

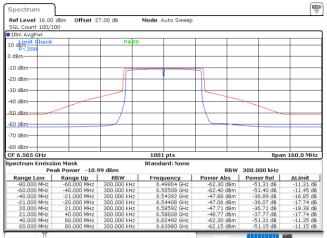


Plot on Channel 6525MHz



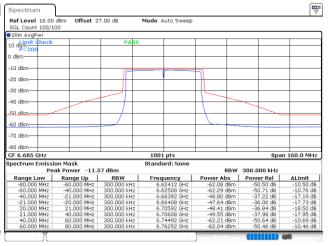
Date: 4.DEC.2021 10:04:56

Plot on Channel 6565MHz



Date: 4.DEC.2021 10:20:03

Plot on Channel 6685MHz

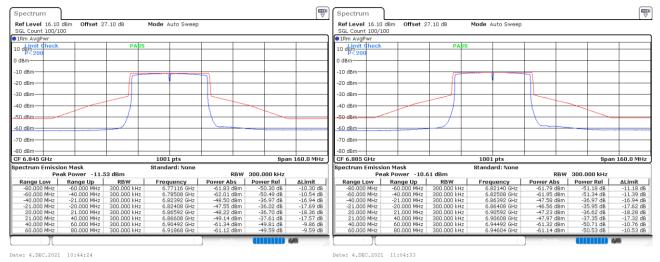


Date: 4.DEC.2021 10:34:27

Plot on Channel 6845MHz

Date: 4.DEC.2021 10:39:49

Plot on Channel 6885MHz

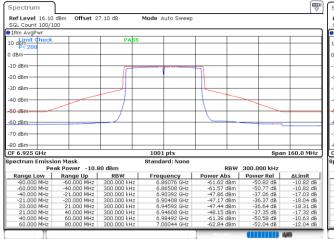


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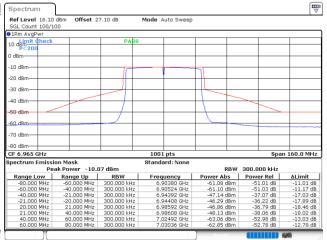
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Plot on Channel 6925MHz



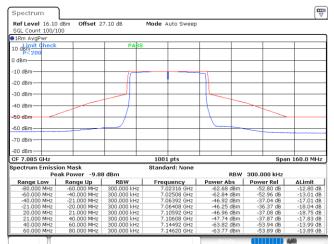
Plot on Channel 6965MHz



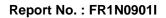
Date: 4.DEC.2021 12:50:37

Plot on Channel 7085MHz

Date: 4.DEC.2021 11:13:42



Date: 4.DEC.2021 12:55:54

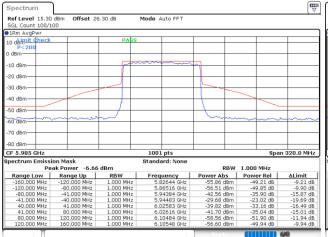




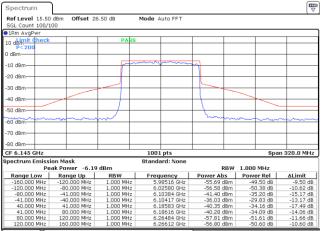
EUT Mode :

802.11ax HE80

Plot on Channel 5985MHz



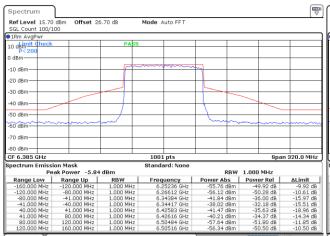
Plot on Channel 6145MHz



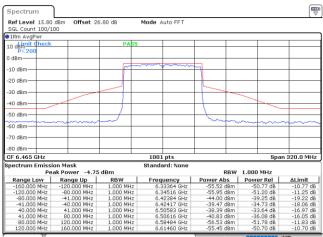
Date: 4.DEC.2021 13:23:17

Date: 4.DEC.2021 13:28:06

Plot on Channel 6385MHz



Plot on Channel 6465MHz



Date: 4.DEC.2021 13:40:53

Date: 4.DEC.2021 13:46:32

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