

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: SHARP Corporation Mobile Communication BU
2-13-1 Iida Hachihonmatsu, Higashi-hiroshima city, Hiroshima,
739-0192, Japan

Manufacturer: Sharp Corporation
1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan

Product Name: Smart Phone

Brand Name: SHARP

Report Number: TERF2404001035ER

FCC ID APYHRO00332

Date of EUT Received: April 18, 2024

Date of Test: April 18, 2024~May 13, 2024

Issue Date: May 24, 2024

Approved By**Blue Yang****We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2404001035ER	00	Original.	May 24, 2024	Karen Huang	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Smart Phone
Brand Name:	SHARP
Hardware Version:	DVT
Firmware Version:	N/A
Power Supply:	3.89Vdc from Rechargeable Battery
Test Software (Name/Version)	Tera Term/4.106 & QRCT/4.0.95.1

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a, 11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11be
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_HT20: up to 144.4 Mbps
	802.11 n_HT40: up to 300 Mbps
	802.11 ac_VHT20: up to 173.4 Mbps
	802.11 ac_VHT40: up to 400 Mbps
	802.11 ac_VHT80: up to 866.6 Mbps
	802.11 ac_VHT160: up to 1733.4 Mbps
	802.11 ax_HE20: up to 344.1 Mbps
	802.11 ax_HE40: up to 688.2 Mbps
	802.11 ax_HE80: up to 1441.2 Mbps
	802.11 ax_HE160: up to 2882.4 Mbps
	802.11 be_EHT20: up to 344.1 Mbps
	802.11 be_EHT40: up to 688.2 Mbps
	802.11 be_EHT80: up to 1441.2 Mbps
	802.11 be_EHT160: up to 2882.4 Mbps

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1.3 Antenna Designation

Antenna Type	Antenna Model No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Inverted-F Antenna	ANT4	5150~5250	-1.9
		5250~5350	0.1
		5470~5725	0.1
		5725~5850	-1.3
	ANT8	5150~5250	-2.3
		5250~5350	-0.7
		5470~5725	-0.7
		5725~5850	-1.9

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20/ 802.11ax_HE20/ 802.11be_EHT20	5180~5240	4	14.99 dBm	OFDMA
	5260~5320	4	14.99 dBm	OFDMA
	5500~5720	12	14.98 dBm	OFDMA
	5745-5825	5	14.98 dBm	OFDMA
802.11n_HT40 802.11ac_VHT40/ 802.11ax_HE40/ 802.11be_EHT40	5190~5230	2	14.95 dBm	OFDMA
	5270~5310	2	14.89 dBm	OFDMA
	5510~5710	6	14.96 dBm	OFDMA
	5755-5795	2	14.94 dBm	OFDMA
802.11ac_VHT80/ 802.11ax_HE80/ 802.11be_EHT80	5210	1	14.96 dBm	OFDMA
	5290	1	14.69 dBm	OFDMA
	5530~5690	3	14.99 dBm	OFDMA
	5775	1	14.88 dBm	OFDMA
802.11ac_VHT160/ 802.11ax_HE160/ 802.11be_EHT160	5250	1	14.88 dBm	OFDMA
	5570	1	14.97 dBm	OFDMA

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

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

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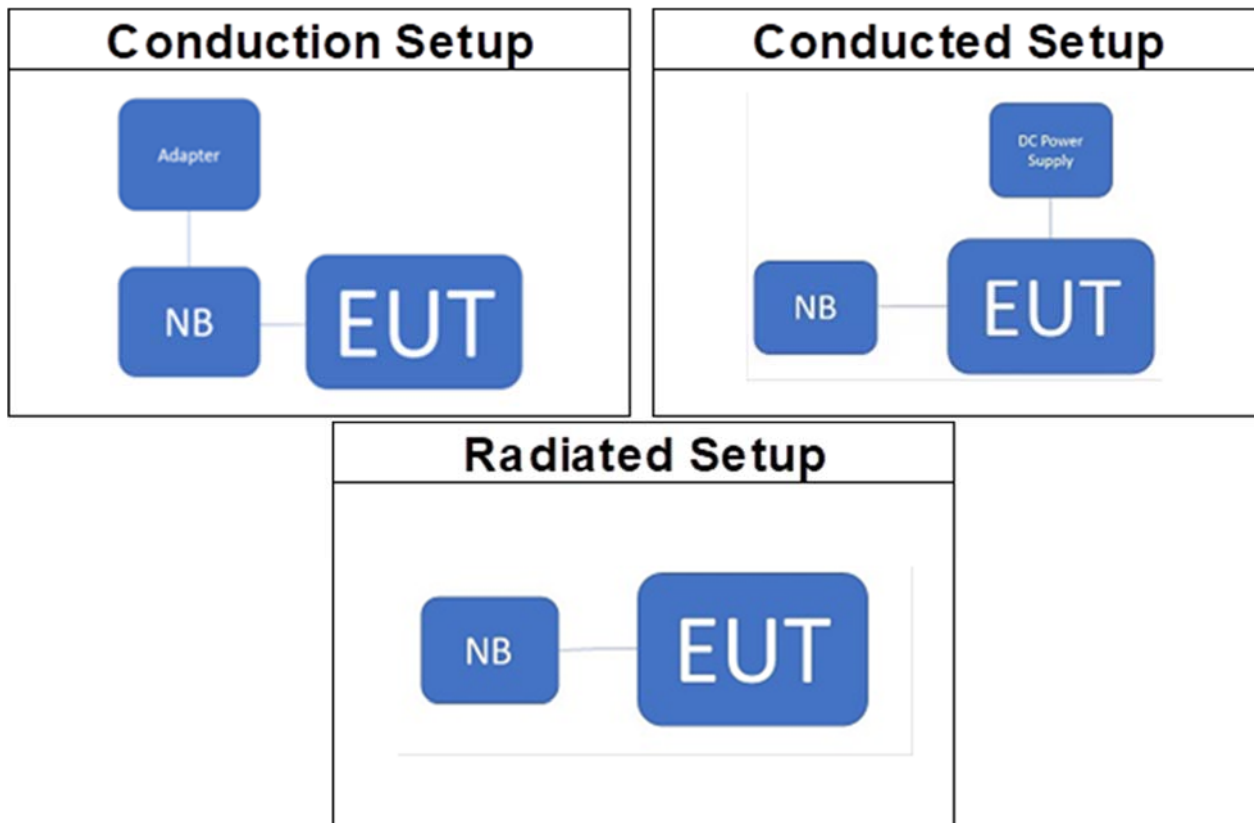
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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T470	PF-0TGY30 17/07	N/A	N/A
Adapter	Lenovo	ADLX90NCC3A	N/A	N/A	N/A
Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T470	PF-0TGY30 17/07	N/A	N/A
Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	HP	HSN-Q35C-4	5CD2428X45	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.407(e)	Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-1 5150 MHz ~ 5250MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

UNII-2A 5250 MHz ~ 5350MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

160MHz	
CH	Freq. (MHz)
50	5250

UNII-2C 5470 MHz ~ 5725MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

160MHz	
CH	Freq. (MHz)
114	5570

UNII-3 5725 MHz ~ 5850MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

Modulation		Transmission Chain								Single Transmission Spatial		Multiple Transmission Spatial	
V	802.11 a	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 n	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 ac	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 ax	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 be	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			

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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54 52+26MRU1,MRU3 106+26MRU1,MRU2	MCS0	2TX
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
	5845~5885	169 to 177	169,173,177				
802.11be_EHT40	5190~5230	38 to 46	38,46	OFDMA	FULL RU 242/61,242/62	MCS0	2TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
	5835~5875	167 to 175	167,175				
802.11be_EHT80	5210	42	42	OFDMA	FULL RU 484/65,484/66 484+242 MRU1,MRU4	MCS0	2TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
	5855	171	171				
802.11be_EHT160	5250	50	50	OFDMA	FULL RU 996/67,996/S67 996+484 MRU1,MRU2 996+484 MRU3,MRU4 996+484+242 MRU1 996+484+242 MRU2 996+484+242 MRU7 996+484+242 MRU8	MCS0	2TX
	5570	114	114				
	5815	163	163				
TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6		2TX
	5260~5320	52 to 64	60				
	5500~5720	100 to 144	116				
	5745~5825	149 to 165	157				
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6		2TX
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				

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TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54 52+26MRU1,MRU3 106+26MRU1,MRU2	MCS0	2TX
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
802.11be_EHT40	5190~5230	38 to 46	38,46	OFDMA	FULL RU 242/61,242/62	MCS0	2TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
802.11be_EHT80	5210	42	42	OFDMA	FULL RU 484/65,484/66 484+242 MRU1,MRU4	MCS0	2TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
802.11be_EHT160	5250	50	50	OFDMA	FULL RU 996/67,996/S67 996+484 MRU1,MRU2 996+484 MRU3,MRU4 996+484+242 MRU1,MRU2 996+484+242 MRU7,MRU8	MCS0	2TX
	5570	114	114				

Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Peak Power Density	+/- 0.61 dB
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 dB	140GHz-220GHz

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
LISN	SCHWARZBECK	NSLK 8127	1040	09/06/2023	09/05/2024
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2023	06/21/2024
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2023	06/21/2024
EMI Test Receiver	R&S	ESCI 7	100759	08/21/2023	08/20/2024

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/07/2023	06/06/2024
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	1242004	10/24/2023	10/23/2024
Power Sensor	Anritsu	MA2411B	1207365	10/24/2023	10/23/2024
Power Sensor	Anritsu	MA2411B	1207368	10/24/2023	10/23/2024
DC Power Supply	Agilent	E3640A	KR93300208	09/12/2023	09/11/2024
Attenuator	Mini-Circuits	BW-S10W2+	1	12/12/2023	12/11/2024
DC Block	Mini-Circuits	BLK-18-S+	10	12/12/2023	12/11/2024

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Loop Antenna	COM-POWER	AL-130R	10160104	12/04/2023	12/03/2024
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/03/2023	07/02/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2023	08/08/2024
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2023	09/22/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/06/2024	02/05/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
EMI Test Receiver	R&S	ESCI 7	100759	08/21/2023	08/20/2024
Pre-Amplifier	EMCI	EMC184045B	980135	08/31/2023	08/30/2024
Pre-Amplifier	HP	8447D	2944A07676	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/31/2023	08/30/2024
Attenuator	Mini-Circuits	BW-S10W2+	4	12/12/2023	12/11/2024
Band Reject Filter 5150-5350	Micro-Tronics	BRM50703	1	12/12/2023	12/11/2024
Band Reject Filter 5470-5725	Micro-Tronics	BRM50704	1	12/12/2023	12/11/2024
Band Reject Filter 5725-5875	Micro-Tronics	BRC500705-01	1	12/12/2023	12/11/2024
7G High Pass Filter	Titan	T04H700026000050 S01	23040703-37	12/12/2023	12/11/2024
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	08/31/2023	08/30/2024
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM-1000+EMC107-SM-1500+EMC107-SM-SM-8000+SUCOFLEX 104PEA	RX Cable 9K-18G (221110+221106+221212+MY4251/4PEA)	08/31/2023	08/30/2024

NOTE: N.C.R refers to Not Calibrated Required.

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

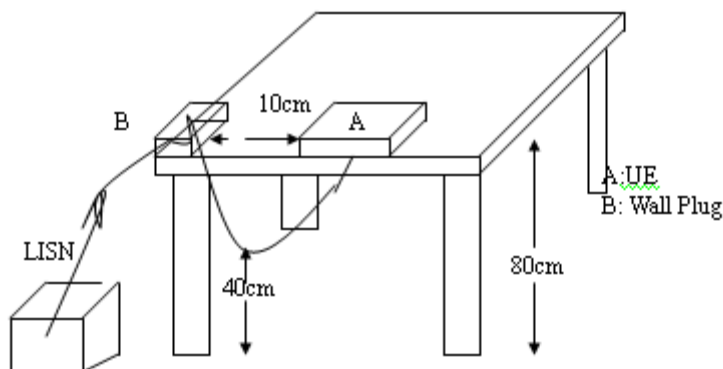
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test SET-UP



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7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2404001035ER

Test Site :Conduction 1

Operation Mode :WLAN5G

Test Date :2024-05-10

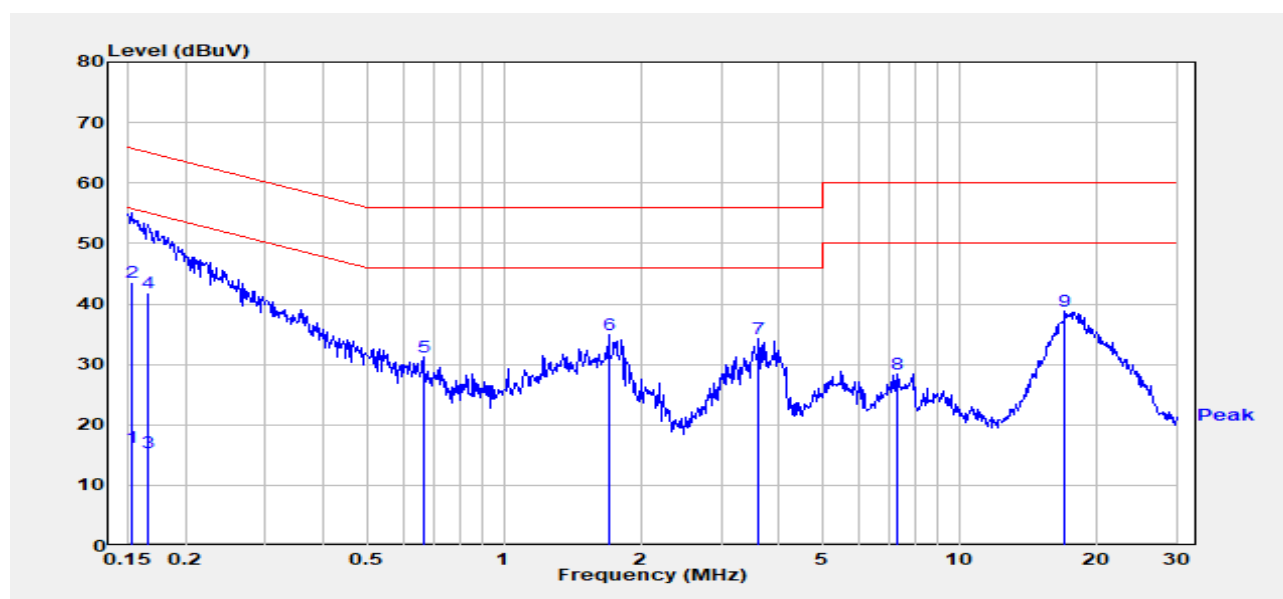
Power :120V/60Hz

Temp./Humi. :23.0°C/50%

Probe :L

Engineer :Eason Wang

Note: :



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.153	Average	6.16	10.13	16.29	55.82	-39.53
0.153	QP	33.38	10.13	43.51	65.82	-22.31
0.166	Average	5.37	10.13	15.50	55.16	-39.66
0.166	QP	31.64	10.13	41.77	65.16	-23.39
0.665	Peak	21.00	10.18	31.18	56.00	-24.82
1.698	Peak	24.65	10.19	34.84	56.00	-21.16
3.623	Peak	24.02	10.28	34.30	56.00	-21.70
7.290	Peak	18.10	10.36	28.46	60.00	-31.54
17.109	Peak	28.36	10.50	38.86	60.00	-21.14

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Report Number :TERF2404001035ER

Operation Mode :WLAN5G

Power :120V/60Hz

Probe :N

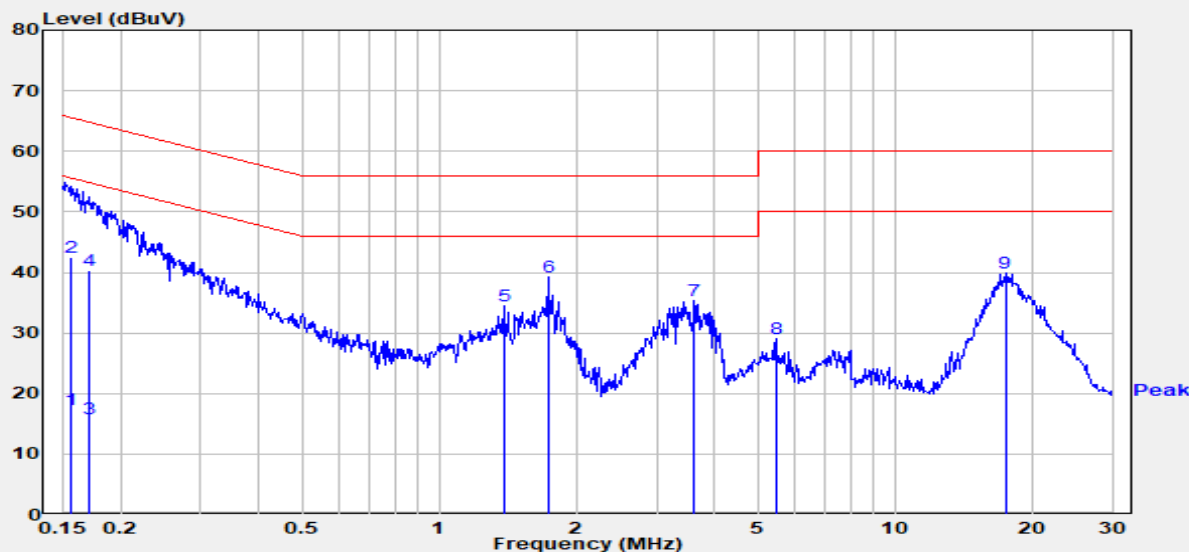
Note: :

Test Site :Conduction 1

Test Date :2024-05-10

Temp./Humi. :23.0°C/50%

Engineer :Eason Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.156	Average	7.23	10.12	17.35	55.69	-38.34
0.156	QP	32.46	10.12	42.58	65.69	-23.11
0.171	Average	5.62	10.12	15.74	54.90	-39.16
0.171	QP	30.29	10.12	40.41	64.90	-24.49
1.388	Peak	24.22	10.19	34.41	56.00	-21.59
1.734	Peak	29.01	10.19	39.20	56.00	-16.80
3.623	Peak	25.00	10.29	35.29	56.00	-20.71
5.476	Peak	18.73	10.36	29.09	60.00	-30.91
17.475	Peak	29.24	10.55	39.79	60.00	-20.21

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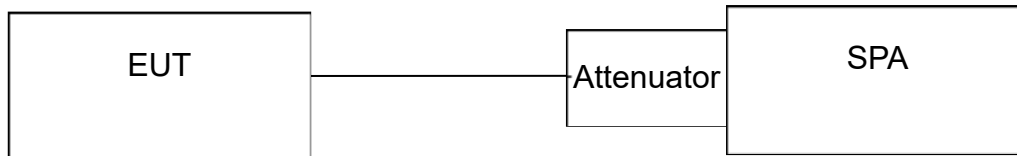
8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3.

8.2 Test Setup



8.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW
Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Peak,
Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all frequency of interest measured was complete.

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8.4 Measurement Result

8.4.1 FCC Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.46	13.510
5220	22.72	13.560
5240	22.97	13.610
5260	22.77	13.570
5300	22.17	13.460
5320	23.02	13.620
5500	22.77	13.570
5580	22.79	13.580
5700	22.31	13.480
5720(U-NII 2C)	16.46	12.160
5720(U-NII 3)	6.46	8.100

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.37	12.140
5785	16.38	12.140
5825	16.41	12.150

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.63	< 5250
5745	5736.64	> 5725

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802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.11	13.640
5220	22.62	13.540
5240	22.63	13.550
5260	22.96	13.610
5300	22.09	13.440
5320	22.17	13.460
5500	22.76	13.570
5580	22.58	13.540
5700	22.90	13.600
5720(U-NII 2C)	16.48	12.170
5720(U-NII 3)	6.48	8.120

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.37	12.140
5785	16.40	12.150
5825	16.48	12.170

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.54	< 5250
5745	5736.54	> 5725

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802.11be_EHT20_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	22.79	13.580
5220	full	22.41	13.500
5240	full	22.64	13.550
5260	full	22.64	13.550
5300	full	22.81	13.580
5320	full	22.60	13.540
5500	full	21.73	13.370
5580	full	22.19	13.460
5700	full	22.48	13.520
5720 (U-NII 2C)	full	16.45	12.160
5720 (U-NII 3)	full	6.45	8.100

802.11be_EHT20_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	19.14	12.820
5785	full	18.94	12.770
5825	full	18.85	12.750

802.11be_EHT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.58	< 5250
5745	5735.48	> 5725

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802.11be_EHT20_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	22.50	13.520
5220	full	22.19	13.460
5240	full	22.28	13.480
5260	full	22.80	13.580
5300	full	22.06	13.440
5320	full	22.53	13.530
5500	full	22.03	13.430
5580	full	22.02	13.430
5700	full	21.98	13.420
5720 (U-NII 2C)	full	16.34	12.130
5720 (U-NII 3)	full	6.34	8.020

802.11be_EHT20_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	18.85	12.750
5785	full	18.85	12.750
5825	full	18.99	12.790

802.11be_EHT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.52	< 5250
5745	5735.47	> 5725

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802.11be_EHT40_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	42.90	16.320
5230	full	43.47	16.380
5270	full	41.99	16.230
5310	full	42.88	16.320
5510	full	43.64	16.400
5550	full	43.37	16.370
5670	full	42.33	16.270
5710 (U-NII 2C)	full	37.05	15.690
5710 (U-NII 3)	full	7.05	8.480

802.11be_EHT40_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	37.76	15.770
5795	full	38.18	15.820

802.11be_EHT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5249.09	< 5250
5755	5736.06	> 5725

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802.11be_EHT40_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	43.28	16.360
5230	full	43.06	16.340
5270	full	43.50	16.380
5310	full	42.26	16.260
5510	full	43.39	16.370
5550	full	43.75	16.410
5670	full	42.92	16.330
5710 (U-NII 2C)	full	36.99	15.680
5710 (U-NII 3)	full	6.99	8.450

802.11be_EHT40_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	37.97	15.790
5795	full	38.11	15.810

802.11be_EHT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.96	< 5250
5755	5736.04	> 5725

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802.11be_EHT80_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	87.73	19.430
5290	full	87.15	19.400
5530	full	87.43	19.420
5610	full	87.20	19.410
5690 (U-NII 2C)	full	78.48	18.950
5690 (U-NII 3)	full	8.48	9.280

802.11be_EHT80_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	77.69	18.900

802.11be_EHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5249.19	< 5250
5775	5736.35	> 5725

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802.11be_EHT80_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	88.20	19.450
5290	full	87.39	19.410
5530	full	86.46	19.370
5610	full	86.55	19.370
5690 (U-NII 2C)	full	78.02	18.920
5690 (U-NII 3)	full	8.02	9.040

802.11be_EHT80_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	78.00	18.920

802.11be_EHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.94	< 5250
5775	5736.17	> 5725

802.11be_EHT160_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	173.20	22.390
5570	full	172.10	22.360

802.11be_EHT160_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	168.40	22.260
5570	full	170.70	22.320

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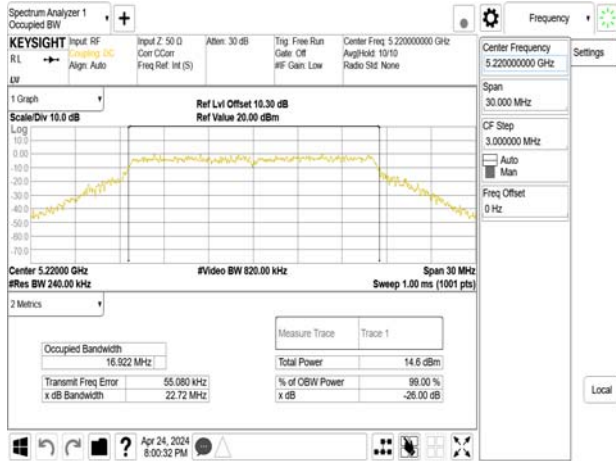
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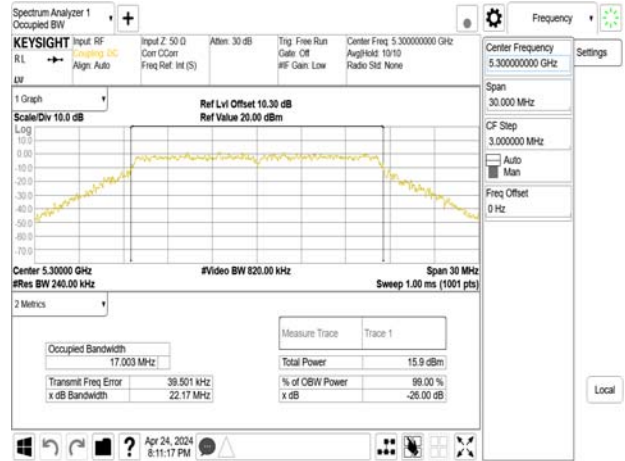
802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



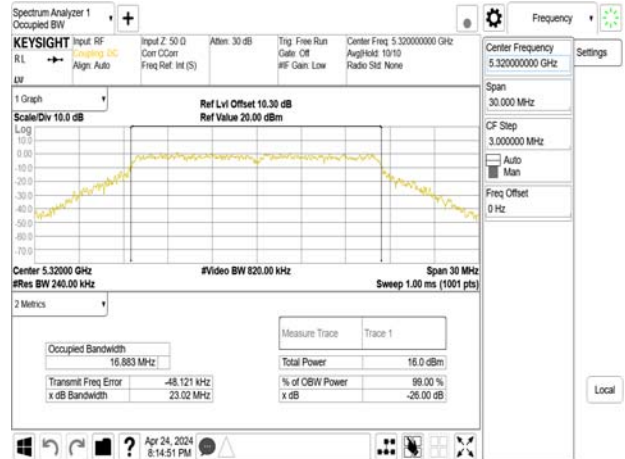
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz



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802.11a_20MHz_Chain0_5500MHz



802.11a_20MHz_Chain0_5720MHz



802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz



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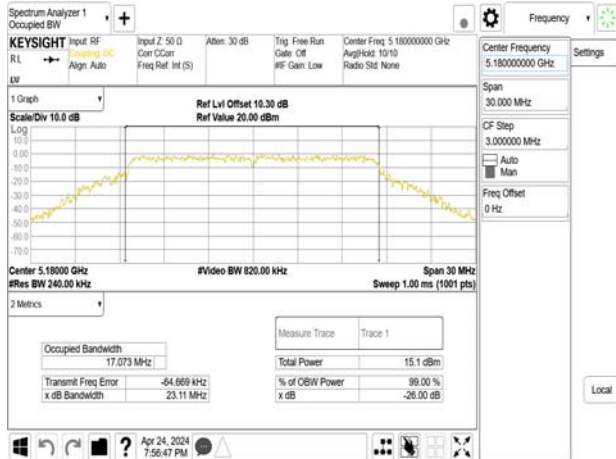
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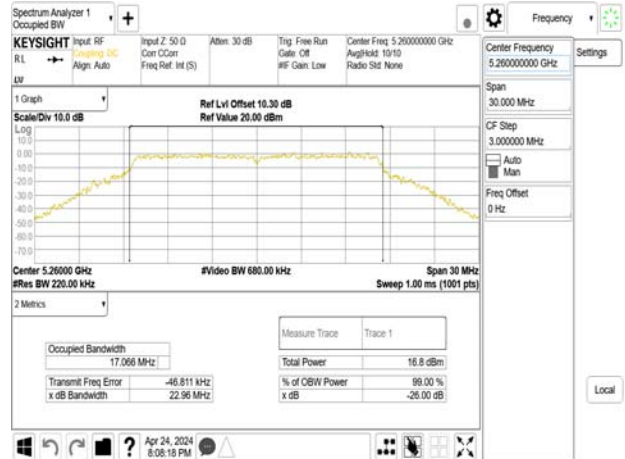
802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5180MHz



802.11a_20MHz_Chain1_5260MHz



802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain1_5300MHz



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802.11a_20MHz_Chain1_5320MHz



802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5720MHz



802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5745MHz

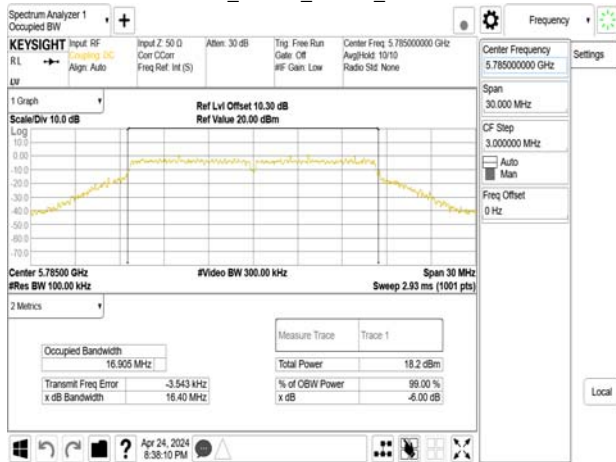


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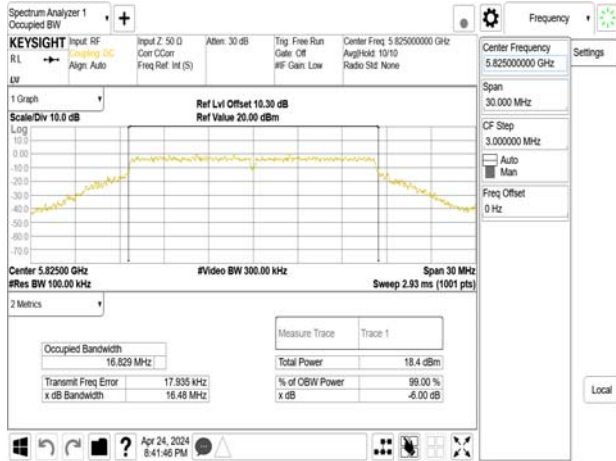
802.11a_20MHz_Chain1_5785MHz



802.11be_20MHz_Chain0_5220MHz



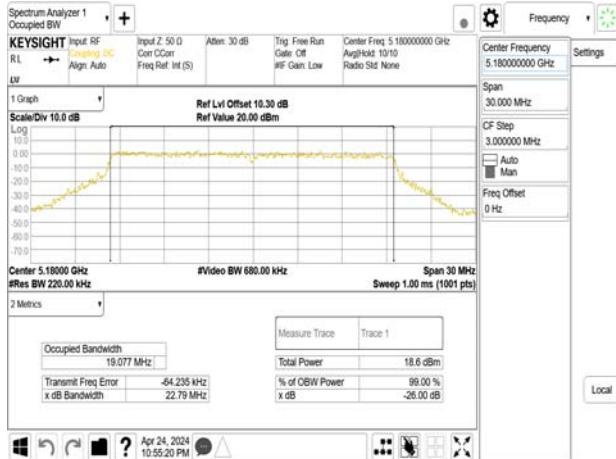
802.11a_20MHz_Chain1_5825MHz



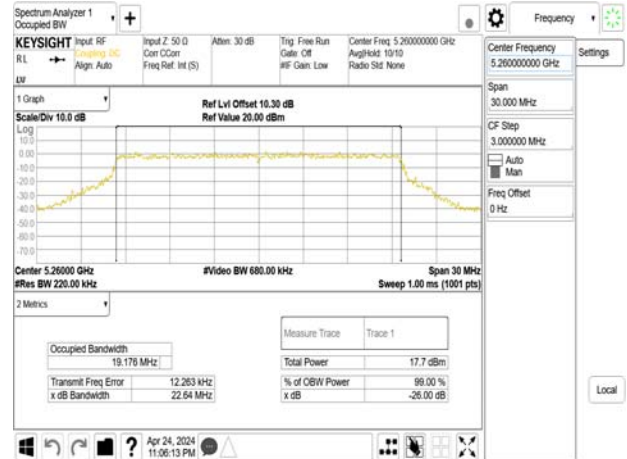
802.11be_20MHz_Chain0_5240MHz



802.11be_20MHz_Chain0_5180MHz



802.11be_20MHz_Chain0_5260MHz

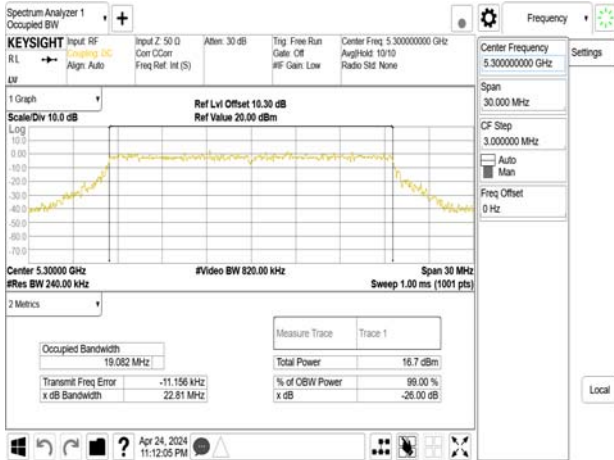


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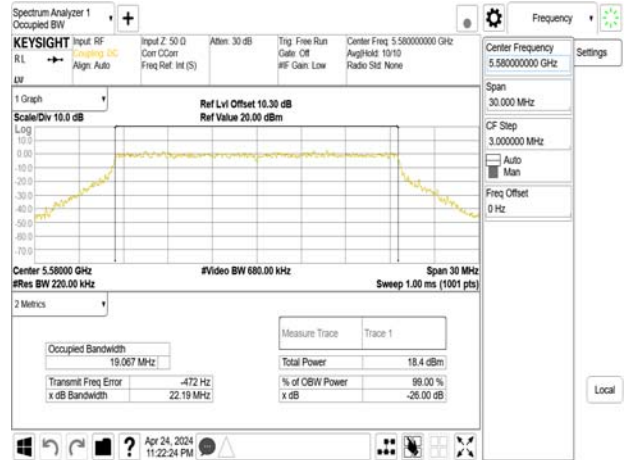
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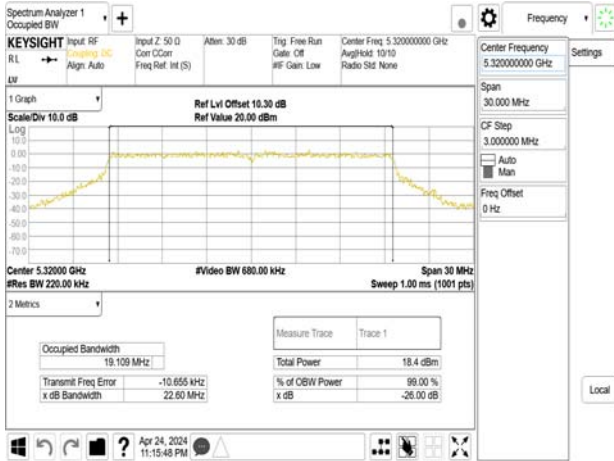
802.11be_20MHz_Chain0_5300MHz



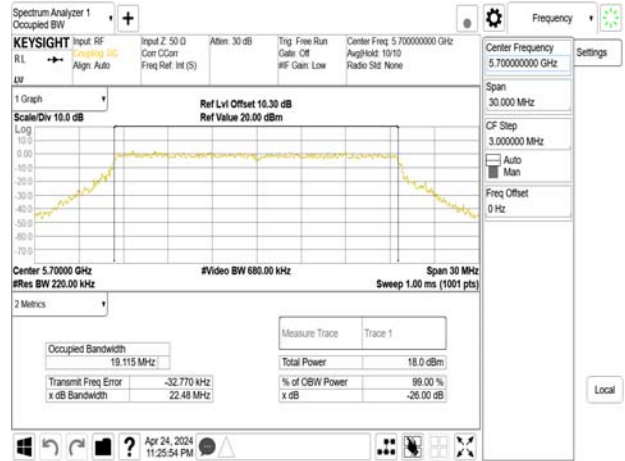
802.11be_20MHz_Chain0_5580MHz



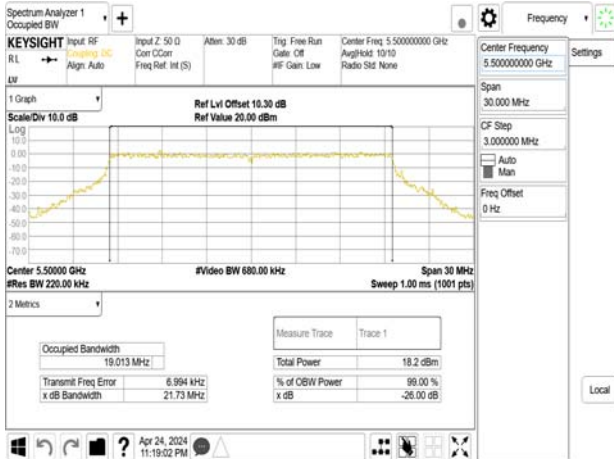
802.11be_20MHz_Chain0_5320MHz



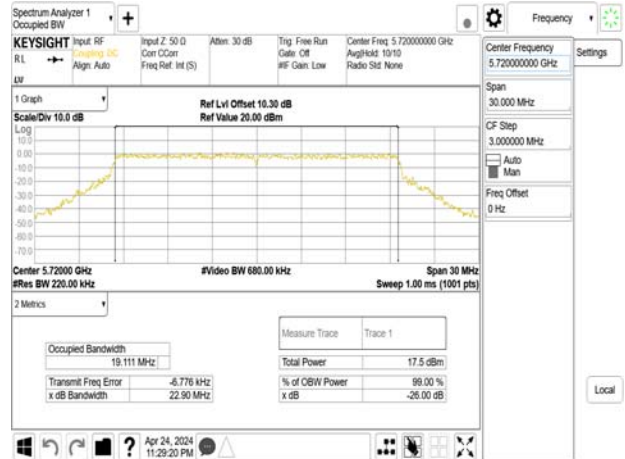
802.11be_20MHz_Chain0_5700MHz



802.11be_20MHz_Chain0_5500MHz



802.11be_20MHz_Chain0_5720MHz



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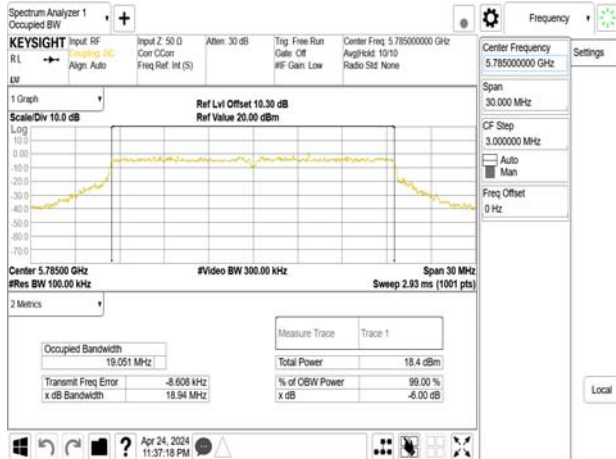
802.11be_20MHz_Chain0_5745MHz



802.11be_20MHz_Chain1_5180MHz



802.11be_20MHz_Chain0_5785MHz



802.11be_20MHz_Chain1_5220MHz



802.11be_20MHz_Chain0_5825MHz



802.11be_20MHz_Chain1_5240MHz



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802.11be_20MHz_Chain1_5260MHz



802.11be_20MHz_Chain1_5500MHz



802.11be_20MHz_Chain1_5300MHz



802.11be_20MHz_Chain1_5580MHz



802.11be_20MHz_Chain1_5320MHz



802.11be_20MHz_Chain1_5700MHz



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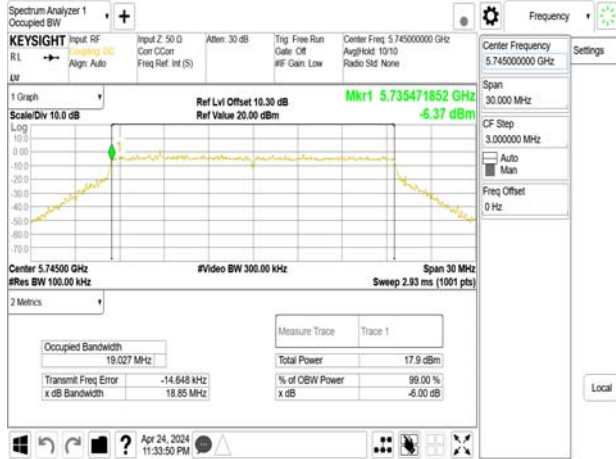
802.11be_20MHz_Chain1_5720MHz



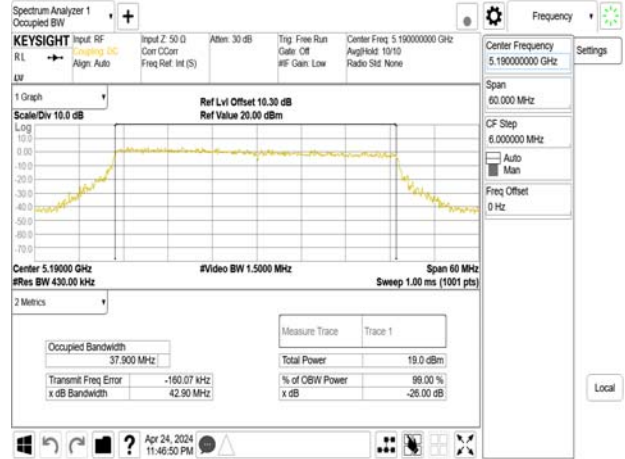
802.11be_20MHz_Chain1_5825MHz



802.11be_20MHz_Chain1_5745MHz



802.11be_40MHz_Chain0_5190MHz



802.11be_20MHz_Chain1_5785MHz



802.11be_40MHz_Chain0_5230MHz

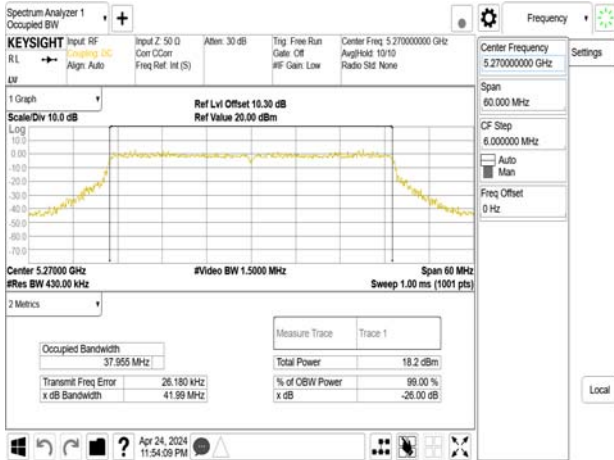


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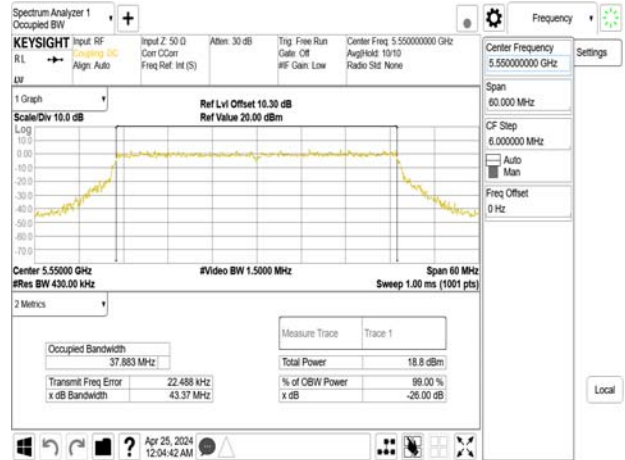
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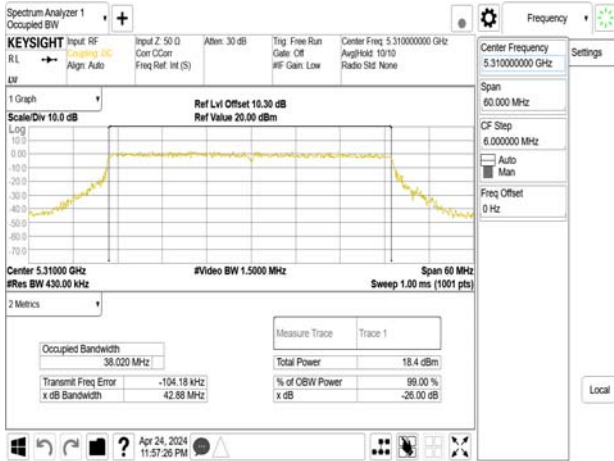
802.11be_40MHz_Chain0_5270MHz



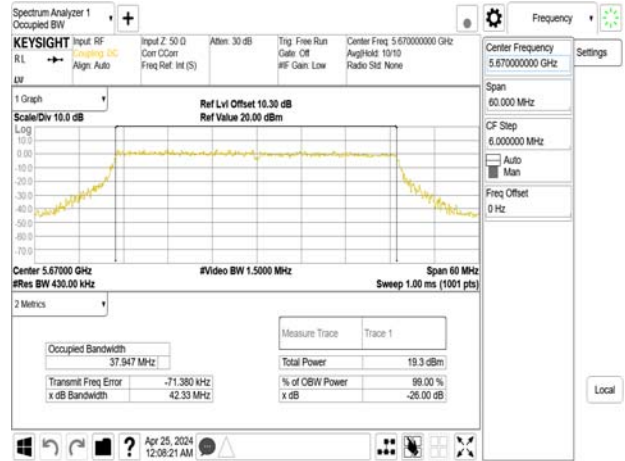
802.11be_40MHz_Chain0_5550MHz



802.11be_40MHz_Chain0_5310MHz



802.11be_40MHz_Chain0_5670MHz



802.11be_40MHz_Chain0_5510MHz



802.11be_40MHz_Chain0_5710MHz



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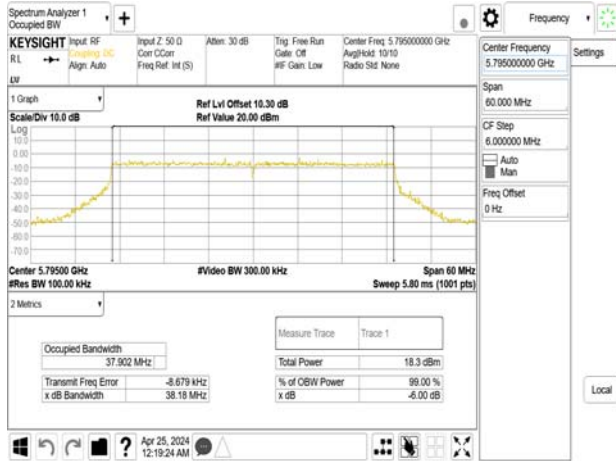
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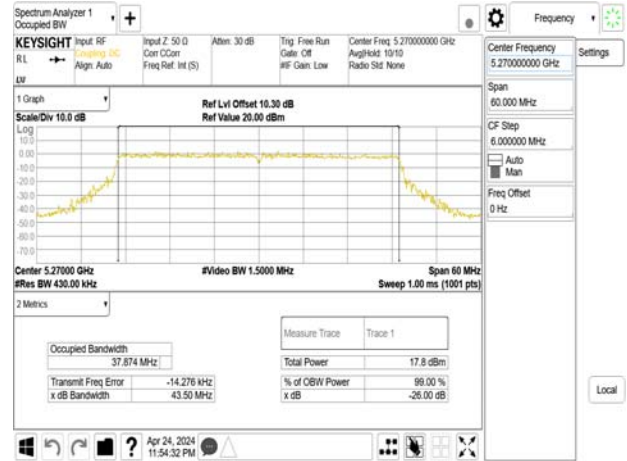
802.11be_40MHz_Chain1_5230MHz



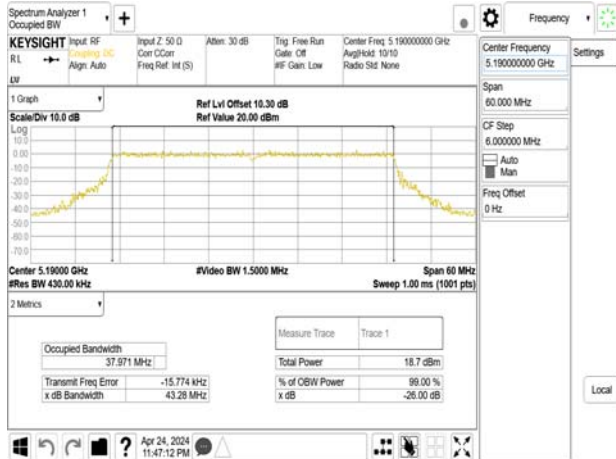
802.11be_40MHz_Chain0_5795MHz



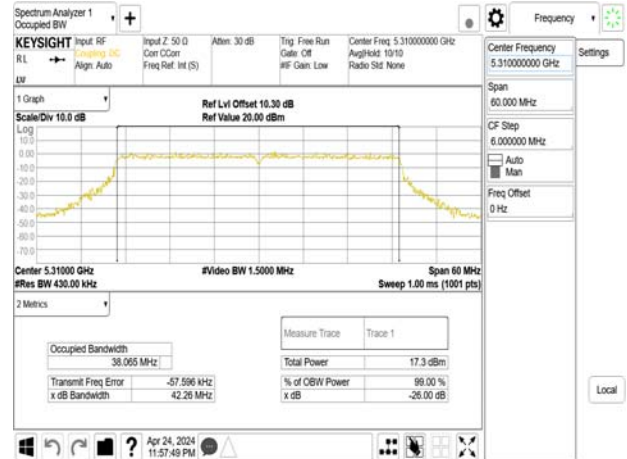
802.11be_40MHz_Chain1_5270MHz



802.11be_40MHz_Chain1_5190MHz



802.11be_40MHz_Chain1_5310MHz

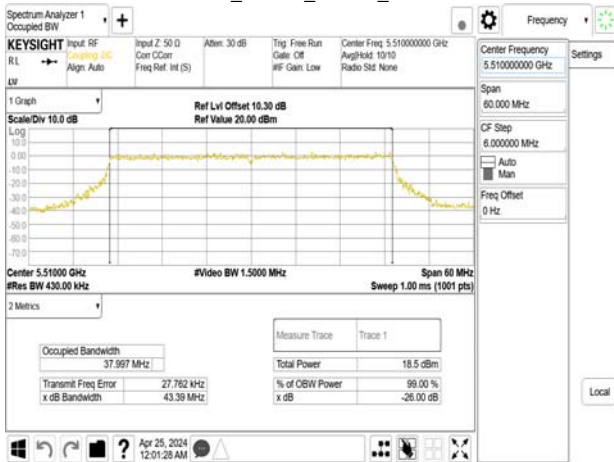


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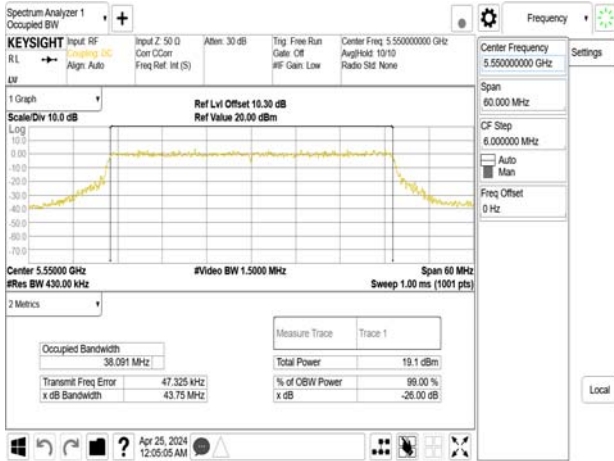
802.11be_40MHz_Chain1_5510MHz



802.11be_40MHz_Chain1_5710MHz



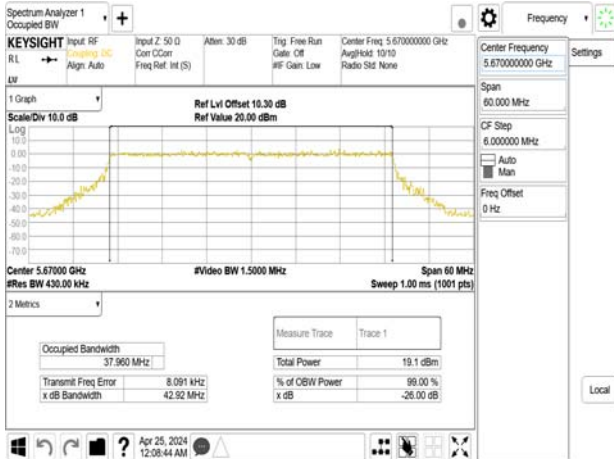
802.11be_40MHz_Chain1_5550MHz



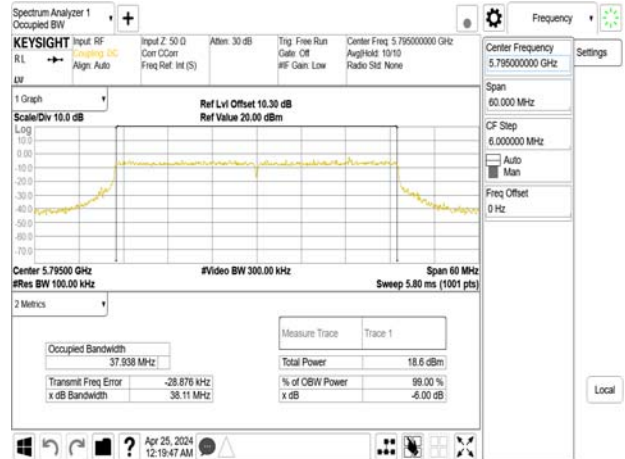
802.11be_40MHz_Chain1_5755MHz



802.11be_40MHz_Chain1_5670MHz



802.11be_40MHz_Chain1_5795MHz



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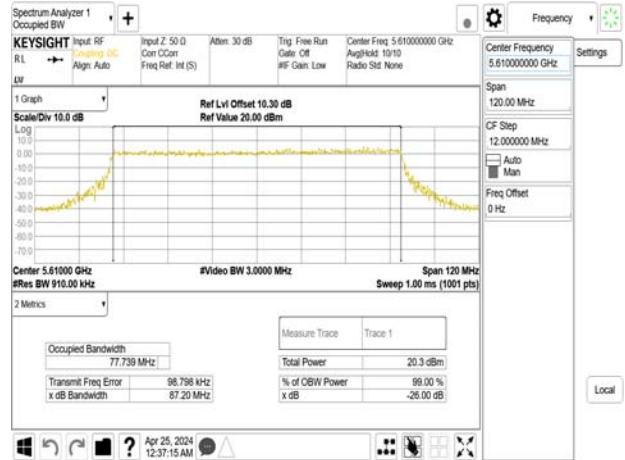
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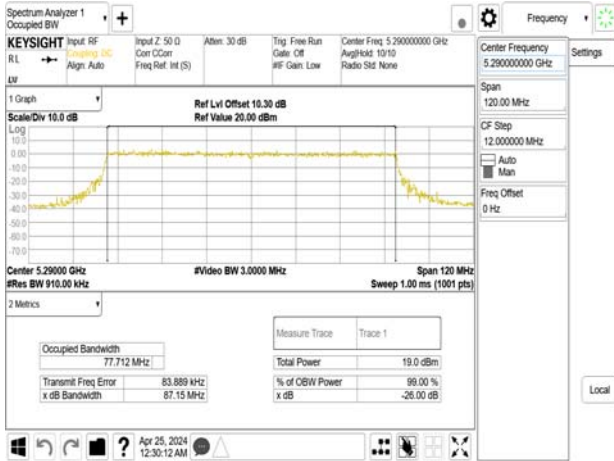
802.11be_80MHz_Chain0_5210MHz



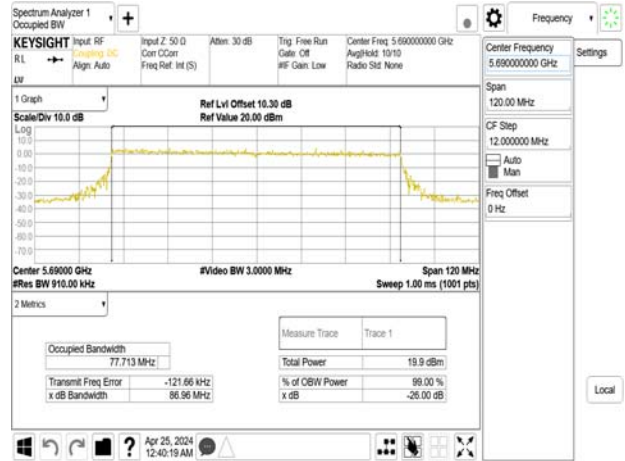
802.11be_80MHz_Chain0_5610MHz



802.11be_80MHz_Chain0_5290MHz



802.11be_80MHz_Chain0_5690MHz



802.11be_80MHz_Chain0_5530MHz



802.11be_80MHz_Chain0_5775MHz



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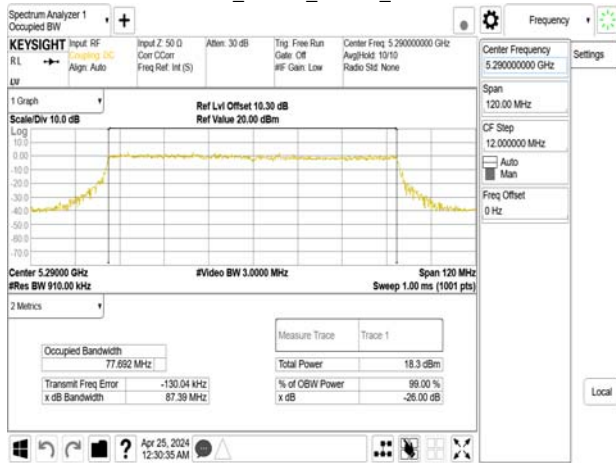
802.11be_80MHz_Chain1_5210MHz



802.11be_80MHz_Chain1_5610MHz



802.11be_80MHz_Chain1_5290MHz



802.11be_80MHz_Chain1_5690MHz



802.11be_80MHz_Chain1_5530MHz



802.11be_80MHz_Chain1_5775MHz

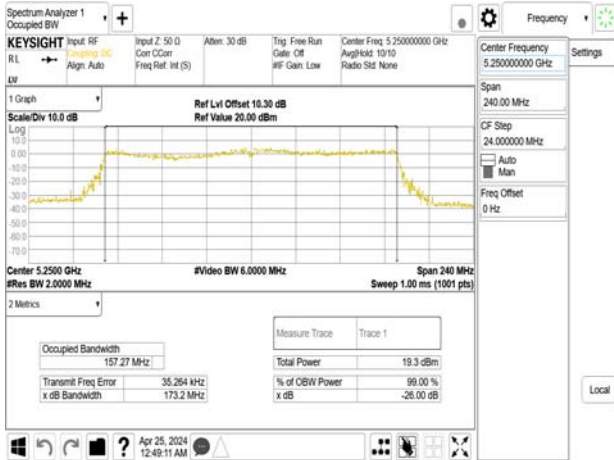


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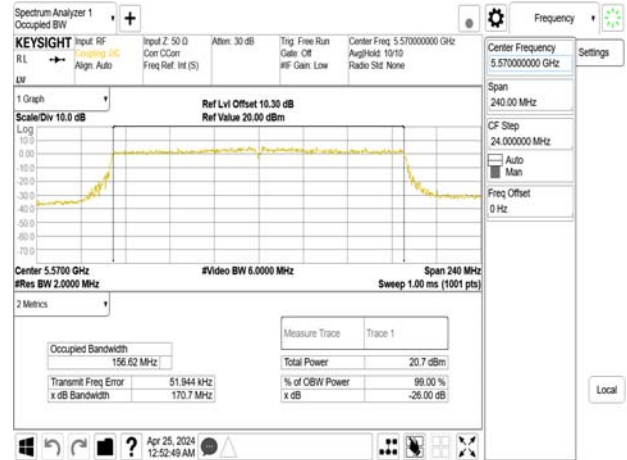
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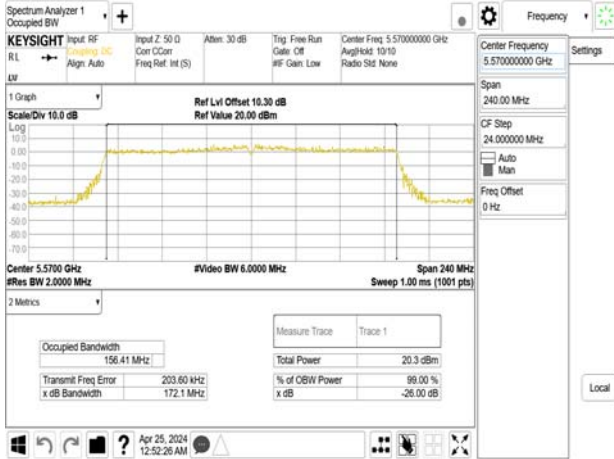
802.11be_160MHz_Chain0_5250MHz



802.11be_160MHz_Chain1_5570MHz



802.11be_160MHz_Chain0_5570MHz



802.11be_160MHz_Chain1_5250MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

9.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

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Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Outdoor AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
U-NII-4		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
		indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
		subordinate device	Not required	36dBm	Not required	Not required
1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna. 2. For the 10 log B, B is the 26 dB emission bandwidth.						

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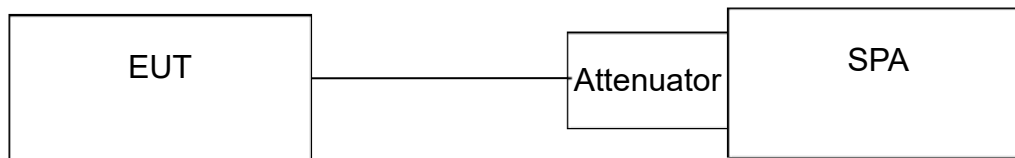
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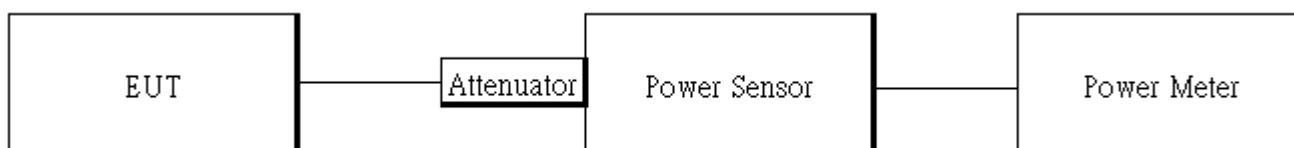
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9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



9.3 Measurement Procedure

9.3.1 Duty Cycle Measurements

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

9.3.2 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. MIMO mode: offset is set with "measure and add $10 \log(N)$ " to measurement for MIMO mode. Offset = cable loss + $10 \log(N)$, where N is number of transmitting antenna, cable loss is specified below.

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Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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9.4 Duty Cycle Measurement Result

Mode		Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a		99.15	0.04	0.48	0.01
802.11n_20		99.63	0.02	0.19	0.01
802.11ac_20		99.66	0.01	0.19	0.01
802.11n_40		99.67	0.01	0.19	0.01
802.11ac_40		99.67	0.01	0.19	0.01
802.11ac_80		99.34	0.03	0.37	0.01
802.11ac_160		98.87	0.05	0.63	0.01
Mode	RU Config	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11ax_20	Full	99.63	0.02	0.19	0.01
	26 RU	95.61	0.19	0.22	1.00
	52 RU	95.60	0.20	0.22	1.00
	106 RU	96.06	0.17	0.23	1.00
802.11ax_40	Full	99.70	0.01	0.19	0.01
	242 RU	94.76	0.23	0.41	1.00
802.11ax_80	Full	99.66	0.01	0.19	0.01
	484 RU	94.45	0.25	0.79	1.00
802.11ax_160	Full	99.59	0.02	0.23	0.01
	996 RU	94.43	0.25	1.23	2.00
802.11be_20	Full	99.66	0.01	0.19	0.01
	26 RU	95.61	0.19	0.22	1.00
	52 RU	95.60	0.20	0.22	1.00
	106 RU	96.10	0.17	0.23	1.00
	52+26 MRU	95.59	0.20	0.22	1.00
	106+26 MRU	96.83	0.14	0.23	1.00
802.11be_40	Full	99.67	0.01	0.19	0.01
	242 RU	94.76	0.23	0.41	1.00
802.11be_80	Full	99.66	0.01	0.19	0.01
	484 RU	94.60	0.24	0.79	1.00
	484+242 MRU	97.03	0.13	0.90	1.00
802.11be_160	Full	99.59	0.02	0.23	0.01
	996 RU	94.44	0.25	1.23	2.00
	996+484 MRU	94.50	0.25	1.08	2.00
	996+484+242 MRU	99.67	0.01	0.18	0.01

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802.11a_20MHz_Chain0_5180MHz



802.11ac_20MHz_Chain0_5180MHz



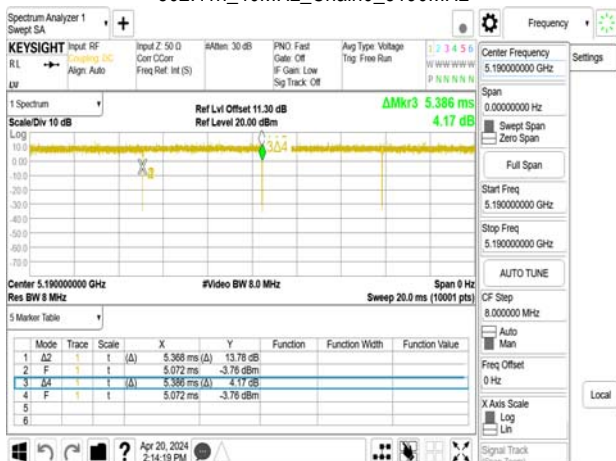
802.11n_20MHz_Chain0_5180MHz



802.11ac_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz



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802.11ac_160MHz_Chain0_5250MHz



802.11ax_20MHz_Chain0_5180MHz_RU26_0



802.11ax_20MHz_Chain0_5180MHz



802.11ax_20MHz_Chain0_5180MHz_RU52_37



802.11ax_20MHz_Chain0_5180MHz_RU106_53



802.11ax_40MHz_Chain0_5190MHz



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802.11ax_40MHz_Chain0_5190MHz_RU242_61



802.11ax_160MHz_Chain0_5250MHz



802.11ax_80MHz_Chain0_5210MHz



802.11ax_160MHz_Chain0_5250MHz_RU996_67



802.11ax_80MHz_Chain0_5210MHz_RU484_65



802.11be_20MHz_Chain0_5180MHz



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802.11be_20MHz_Chain0_5180MHz_106+26_MRU1



802.11be_20MHz_Chain0_5180MHz_RU26_0



802.11be_20MHz_Chain0_5180MHz_52+26_MRU1



802.11be_20MHz_Chain0_5180MHz_RU52_37



802.11be_20MHz_Chain0_5180MHz_RU106_53



802.11be_40MHz_Chain0_5190MHz



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802.11be_80MHz_Chain0_5210MHz_RU484_65



802.11be_80MHz_Chain0_5210MHz



802.11be_160MHz_Chain0_5250MHz



802.11be_80MHz_Chain0_5210MHz_484+242_MRU1



802.11be_160MHz_Chain0_5250MHz_996+484+242_MRU1



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802.11be_160MHz_Chain0_5250MHz_996+484_MRU1



802.11be_160MHz_Chain0_5250MHz_RU996_67



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9.5 Output Power Measurement Result

9.5.1 FCC Output power

802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	6	115	11.98	11.49	29.849	14.75	23.98	PASS
44	5220	6	115	11.61	12.22	31.139	14.93	23.98	PASS
48	5240	6	115	11.70	12.11	31.026	14.92	23.98	PASS
52	5260	6	115	12.03	11.73	30.832	14.89	23.98	PASS
60	5300	6	115	12.02	11.49	29.995	14.77	23.98	PASS
64	5320	6	115	12.20	11.12	29.518	14.70	23.98	PASS
100	5500	6	120	12.18	11.72	31.358	14.96	23.98	PASS
116	5580	6	115	12.15	11.77	31.416	14.97	23.98	PASS
140	5700	6	115	12.08	11.80	31.258	14.95	23.98	PASS
144	5720(U-NII 2C)	6	115	10.53	10.38	22.203	13.46	23.16	PASS
144	5720 (U-NII 3)	6	115	6.47	6.32	8.722	9.41	30	PASS
149	5745	6	115	11.85	12.08	31.433	14.97	30	PASS
157	5785	6	115	11.75	12.01	30.827	14.89	30	PASS
165	5825	6	115	11.85	12.08	31.433	14.97	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	115	11.93	11.49	29.662	14.72	23.98	PASS
44	5220	MCS0	115	11.57	12.23	31.038	14.92	23.98	PASS
48	5240	MCS0	115	11.69	12.10	30.947	14.91	23.98	PASS
52	5260	MCS0	115	11.96	11.75	30.638	14.86	23.98	PASS
60	5300	MCS0	115	12.01	11.53	30.082	14.78	23.98	PASS
64	5320	MCS0	115	12.18	11.13	29.465	14.69	23.98	PASS
100	5500	MCS0	115	11.86	11.24	28.625	14.57	23.98	PASS
116	5580	MCS0	115	12.09	11.82	31.358	14.96	23.98	PASS
140	5700	MCS0	115	12.08	11.80	31.251	14.95	23.98	PASS
144	5720(U-NII 2C)	MCS0	115	10.44	10.41	22.058	13.44	23.08	PASS
144	5720 (U-NII 3)	MCS0	115	6.45	6.22	8.608	9.35	30	PASS
149	5745	MCS0	115	11.83	12.07	31.319	14.96	30	PASS
157	5785	MCS0	115	11.69	12.03	30.688	14.87	30	PASS
165	5825	MCS0	115	11.84	12.04	31.243	14.95	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	110	11.75	11.49	29.084	14.64	23.98	PASS
46	5230	MCS0	110	11.68	12.05	30.786	14.88	23.98	PASS
54	5270	MCS0	110	12.14	11.52	30.589	14.86	23.98	PASS
62	5310	MCS0	110	12.02	11.48	30.013	14.77	23.98	PASS
102	5510	MCS0	110	12.06	11.40	29.903	14.76	23.98	PASS
110	5550	MCS0	110	11.95	11.77	30.730	14.88	23.98	PASS
134	5670	MCS0	110	12.08	11.75	31.137	14.93	23.98	PASS
142	5710(U-NII 2C)	MCS0	110	11.13	10.97	25.451	14.06	23.98	PASS
142	5710 (U-NII 3)	MCS0	110	4.12	3.64	4.895	6.90	30	PASS
151	5755	MCS0	110	11.77	11.96	30.766	14.88	30	PASS
159	5795	MCS0	110	11.62	12.15	30.958	14.91	30	PASS

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802.11ac_VHT20_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	115	11.85	11.44	29.275	14.66	23.98	PASS
44	5220	MCS0	115	11.56	12.22	31.029	14.92	23.98	PASS
48	5240	MCS0	115	11.65	12.02	30.578	14.85	23.98	PASS
52	5260	MCS0	115	11.94	11.71	30.490	14.84	23.98	PASS
60	5300	MCS0	115	11.97	11.50	29.898	14.76	23.98	PASS
64	5320	MCS0	115	12.11	11.09	29.140	14.64	23.98	PASS
100	5500	MCS0	115	11.81	11.18	28.324	14.52	23.98	PASS
116	5580	MCS0	115	12.06	11.78	31.170	14.94	23.98	PASS
140	5700	MCS0	115	12.02	11.74	30.884	14.90	23.98	PASS
144	5720(U-NII 2C)	MCS0	115	10.40	10.36	21.825	13.39	23.08	PASS
144	5720 (U-NII 3)	MCS0	115	6.41	6.17	8.517	9.30	30	PASS
149	5745	MCS0	115	11.81	12.04	31.200	14.94	30	PASS
157	5785	MCS0	115	11.66	12.00	30.538	14.85	30	PASS
165	5825	MCS0	115	11.79	11.97	30.875	14.90	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	110	11.71	11.44	28.786	14.59	23.98	PASS
46	5230	MCS0	110	11.67	12.02	30.642	14.86	23.98	PASS
54	5270	MCS0	110	12.12	11.49	30.416	14.83	23.98	PASS
62	5310	MCS0	110	12.00	11.43	29.778	14.74	23.98	PASS
102	5510	MCS0	110	12.04	11.35	29.671	14.72	23.98	PASS
110	5550	MCS0	110	11.92	11.73	30.484	14.84	23.98	PASS
134	5670	MCS0	110	12.04	11.71	30.852	14.89	23.98	PASS
142	5710(U-NII 2C)	MCS0	110	11.11	10.93	25.277	14.03	23.98	PASS
142	5710 (U-NII 3)	MCS0	110	4.10	3.60	4.861	6.87	30	PASS
151	5755	MCS0	110	11.74	11.95	30.626	14.86	30	PASS
159	5795	MCS0	110	11.59	12.11	30.707	14.87	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
42	5210	MCS0	110	11.91	11.62	30.036	14.78	23.98	PASS
58	5290	MCS0	110	11.84	11.25	28.603	14.56	23.98	PASS
106	5530	MCS0	115	12.07	11.56	30.420	14.83	23.98	PASS
122	5610	MCS0	110	11.96	11.55	29.984	14.77	23.98	PASS
138	5690(U-NII 2C)	MCS0	110	11.38	10.92	26.092	14.17	23.98	PASS
138	5690 (U-NII 3)	MCS0	110	2.43	2.04	3.351	5.25	30	PASS
155	5775	MCS0	110	11.52	11.85	29.493	14.70	30	PASS

802.11ac_VHT160_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
50	5250	MCS0	110	11.61	11.54	28.740	14.58	23.98	PASS
114	5570	MCS0	110	11.78	11.73	29.955	14.76	23.98	PASS

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802.11ax_HE20_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
36	5180	MCS0	full	115	12.03	11.55	30.221	14.80	23.98	PASS
		MCS0	26/0	1	0.87	1.85	2.756	4.40	23.98	PASS
		MCS0	52/37	2.5	4.87	3.29	5.197	7.16	23.98	PASS
		MCS0	106/53	5.5	7.59	6.84	10.583	10.25	23.98	PASS
44	5220	MCS0	full	115	11.59	12.24	31.143	14.93	23.98	PASS
48	5240	MCS0	full	115	11.65	12.17	31.075	14.92	23.98	PASS
52	5260	MCS0	full	115	12.06	11.84	31.317	14.96	23.98	PASS
60	5300	MCS0	full	115	12.03	11.57	30.286	14.81	23.98	PASS
64	5320	MCS0	full	115	12.21	11.28	30.035	14.78	23.98	PASS
		MCS0	26/8	1.5	3.17	1.50	3.491	5.43	23.98	PASS
		MCS0	52/40	4.5	6.25	5.00	7.371	8.68	23.98	PASS
		MCS0	106/54	6.5	8.10	7.06	11.550	10.63	23.98	PASS
100	5500	MCS0	full	115	11.89	11.22	28.670	14.57	23.98	PASS
		MCS0	26/0	2.5	4.06	2.74	4.431	6.47	23.98	PASS
		MCS0	52/37	4.5	5.89	5.11	7.117	8.52	23.98	PASS
		MCS0	106/53	6.5	7.69	7.55	11.576	10.64	23.98	PASS
116	5580	MCS0	full	110	11.77	11.41	28.841	14.60	23.98	PASS
140	5700	MCS0	full	115	12.01	11.82	31.063	14.92	23.98	PASS
		MCS0	26/8	2	3.95	2.82	4.402	6.44	23.98	PASS
		MCS0	52/40	5	6.50	6.19	8.617	9.35	23.98	PASS
		MCS0	106/54	6.5	7.69	7.54	11.563	10.63	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	115	10.51	10.37	22.141	13.45	23.13	PASS
144	5720 (U-NII 3)	MCS0	full	115	6.44	6.26	8.635	9.36	30	PASS
149	5745	MCS0	full	110	11.56	11.63	28.851	14.60	30	PASS
		MCS0	26/0	1	0.80	2.21	2.869	4.58	30	PASS
		MCS0	52/37	3.5	5.18	5.33	6.701	8.26	30	PASS
		MCS0	106/53	6	7.46	7.67	11.432	10.58	30	PASS
157	5785	MCS0	full	115	11.77	12.05	31.036	14.92	30	PASS
165	5825	MCS0	full	110	11.52	11.74	29.092	14.64	30	PASS
		MCS0	26/8	1.5	3.51	2.68	4.102	6.13	30	PASS
		MCS0	52/40	3.5	5.21	4.97	6.453	8.10	30	PASS
		MCS0	106/54	6	7.67	7.39	11.343	10.55	30	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
38	5190	MCS0	full	115	11.89	11.86	30.820	14.89	23.98	PASS
		MCS0	242/61	6.5	8.09	7.78	12.450	10.95	23.98	PASS
46	5230	MCS0	full	110	11.44	11.82	29.158	14.65	23.98	PASS
54	5270	MCS0	full	110	12.06	11.37	29.799	14.74	23.98	PASS
62	5310	MCS0	full	110	11.93	11.28	29.044	14.63	23.98	PASS
		MCS0	242/62	7	8.04	7.76	12.349	10.92	23.98	PASS
102	5510	MCS0	full	110	11.85	11.22	28.574	14.56	23.98	PASS
		MCS0	242/61	6.5	7.79	7.41	11.530	10.62	23.98	PASS
110	5550	MCS0	full	110	11.81	11.60	28.574	14.72	23.98	PASS
134	5670	MCS0	full	110	11.98	11.72	30.657	14.87	23.98	PASS
		MCS0	242/62	6.5	7.71	7.64	11.720	10.69	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	110	11.12	10.78	24.902	13.96	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	110	3.91	3.55	4.724	6.74	30	PASS
151	5755	MCS0	full	110	11.63	11.91	30.100	14.79	30	PASS
		MCS0	242/61	6.5	7.71	7.77	11.896	10.75	30	PASS
159	5795	MCS0	full	110	11.57	12.06	30.446	14.84	30	PASS
		MCS0	242/62	6.5	7.40	7.72	11.421	10.58	30	PASS

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CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
42	5210	MCS0	full	110	12.02	11.77	30.988	14.91	23.98	PASS
		MCS0	484/65	6	8.02	7.24	11.630	10.66	23.98	PASS
58	5290	MCS0	full	110	11.89	11.30	28.974	14.62	23.98	PASS
		MCS0	484/66	7	8.13	7.63	12.290	10.90	23.98	PASS
106	5530	MCS0	full	115	12.08	11.63	30.732	14.88	23.98	PASS
		MCS0	484/65	7.5	8.60	7.03	12.285	10.89	23.98	PASS
122	5610	MCS0	full	110	12.11	11.72	31.149	14.93	23.98	PASS
		MCS0	484/66	6.5	8.04	7.79	12.374	10.93	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	110	11.60	11.25	27.786	14.44	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	110	1.94	1.37	2.932	4.67	30	PASS
155	5775	MCS0	full	110	11.65	11.99	30.468	14.84	30	PASS
		MCS0	484/65	6.5	7.77	8.08	12.405	10.94	30	PASS
		MCS0	484/66	6.5	7.59	7.70	11.624	10.65	30	PASS

802.11ax_HE160_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
50	5250	MCS0	full	115	11.71	11.96	30.514	14.84	23.98	PASS
		MCS0	996/67	7	7.40	8.36	12.347	10.92	23.98	PASS
		MCS0	996/S67	6.5	7.82	7.77	12.034	10.80	23.98	PASS
114	5570	MCS0	full	115	11.84	11.99	31.073	14.92	23.98	PASS
		MCS0	996/67	6.5	7.61	7.69	11.640	10.66	23.98	PASS
		MCS0	996/S67	6.5	7.96	7.83	12.316	10.90	23.98	PASS

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802.11be_EHT20_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
36	5180	MCS0	full	115	12.06	11.58	30.491	14.84	23.98	PASS
		MCS0	26/0	1	0.93	1.89	2.787	4.45	23.98	PASS
		MCS0	52/37	2.5	4.92	3.33	5.252	7.20	23.98	PASS
		MCS0	106/53	5.5	7.63	6.86	10.654	10.28	23.98	PASS
		MCS0	52+26 MRU1	4.5	6.30	5.89	8.140	9.11	23.98	PASS
		MCS0	106+26 MRU1	6	7.89	7.26	11.473	10.60	23.98	PASS
44	5220	MCS0	full	115	11.65	12.27	31.522	14.99	23.98	PASS
48	5240	MCS0	full	115	11.71	12.18	31.379	14.97	23.98	PASS
52	5260	MCS0	full	115	12.09	11.85	31.526	14.99	23.98	PASS
60	5300	MCS0	full	115	12.11	11.62	30.811	14.89	23.98	PASS
64	5320	MCS0	full	115	12.26	11.29	30.319	14.82	23.98	PASS
		MCS0	26/8	1.5	3.23	1.52	3.527	5.47	23.98	PASS
		MCS0	52/40	4.5	6.29	5.06	7.454	8.72	23.98	PASS
		MCS0	106/54	6.5	8.15	7.13	11.703	10.68	23.98	PASS
		MCS0	52+26 MRU3	5.5	7.43	6.23	9.722	9.88	23.98	PASS
		MCS0	106+26 MRU2	6.5	8.14	7.13	11.680	10.67	23.98	PASS
100	5500	MCS0	full	115	11.93	11.25	28.963	14.62	23.98	PASS
		MCS0	26/0	2.5	4.11	2.76	4.469	6.50	23.98	PASS
		MCS0	52/37	4.5	5.95	5.15	7.201	8.57	23.98	PASS
		MCS0	106/53	7	8.06	7.63	12.199	10.86	23.98	PASS
		MCS0	52+26 MRU1	6.5	7.89	7.37	11.598	10.64	23.98	PASS
		MCS0	106+26 MRU1	7	8.02	7.63	12.133	10.84	23.98	PASS
116	5580	MCS0	full	115	12.15	11.78	31.507	14.98	23.98	PASS
140	5700	MCS0	full	115	12.06	11.83	31.345	14.96	23.98	PASS
		MCS0	26/8	2	3.97	2.86	4.432	6.47	23.98	PASS
		MCS0	52/40	5	6.56	6.25	8.737	9.41	23.98	PASS
		MCS0	106/54	6.5	7.73	7.58	11.665	10.67	23.98	PASS
		MCS0	52+26 MRU3	6	7.53	7.24	10.949	10.39	23.98	PASS
		MCS0	106+26 MRU2	6.5	7.72	7.64	11.723	10.69	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	115	10.54	10.43	22.364	13.50	23.13	PASS
144	5720 (U-NII 3)	MCS0	full	115	6.47	6.32	8.721	9.41	30	PASS
149	5745	MCS0	full	115	11.90	12.02	31.445	14.98	30	PASS
		MCS0	26/0	1	0.83	2.27	2.900	4.62	30	PASS
		MCS0	52/37	3.5	5.24	5.38	6.786	8.32	30	PASS
		MCS0	106/53	6	7.50	7.71	11.533	10.62	30	PASS
		MCS0	52+26 MRU1	5.5	7.27	7.19	10.559	10.24	30	PASS
		MCS0	106+26 MRU1	6	7.48	7.65	11.418	10.58	30	PASS
157	5785	MCS0	full	115	11.81	12.09	31.386	14.97	30	PASS
165	5825	MCS0	full	115	11.84	12.08	31.454	14.98	30	PASS
		MCS0	26/8	1.5	3.55	2.73	4.144	6.17	30	PASS
		MCS0	52/40	3.5	5.26	5.00	6.513	8.14	30	PASS
		MCS0	106/54	6	7.71	7.45	11.468	10.60	30	PASS
		MCS0	52+26 MRU3	5.5	7.27	6.99	10.324	10.14	30	PASS
		MCS0	106+26 MRU2	6.5	7.78	7.79	12.009	10.80	30	PASS

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802.11be_EHT40_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
38	5190	MCS0	full	115	11.97	11.91	31.295	14.95	23.98	PASS
		MCS0	242/61	6.5	8.14	7.81	12.567	10.99	23.98	PASS
46	5230	MCS0	full	110	11.68	12.09	30.935	14.90	23.98	PASS
54	5270	MCS0	full	110	12.19	11.53	30.812	14.89	23.98	PASS
62	5310	MCS0	full	110	12.10	11.43	30.148	14.79	23.98	PASS
		MCS0	242/62	7	8.08	7.82	12.491	10.97	23.98	PASS
102	5510	MCS0	full	110	12.06	11.45	30.063	14.78	23.98	PASS
		MCS0	242/61	6.5	7.82	7.45	11.622	10.65	23.98	PASS
110	5550	MCS0	full	110	12.00	11.76	30.063	14.90	23.98	PASS
134	5670	MCS0	full	110	12.09	11.80	31.348	14.96	23.98	PASS
		MCS0	242/62	6.5	7.76	7.68	11.842	10.73	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	110	11.27	10.94	25.813	14.12	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	110	4.06	3.71	4.897	6.90	30	PASS
151	5755	MCS0	full	110	11.78	12.04	31.093	14.93	30	PASS
		MCS0	242/61	6.5	7.79	7.81	12.062	10.81	30	PASS
159	5795	MCS0	full	110	11.66	12.17	31.168	14.94	30	PASS
		MCS0	242/62	6.5	7.46	7.75	11.538	10.62	30	PASS

802.11be_EHT80_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
42	5210	MCS0	full	110	12.10	11.79	31.353	14.96	23.98	PASS
		MCS0	484/65	6	8.08	7.27	11.763	10.71	23.98	PASS
		MCS0	484+242 MRU1	6.5	7.88	8.04	12.508	10.97	23.98	PASS
58	5290	MCS0	full	110	11.97	11.35	29.418	14.69	23.98	PASS
		MCS0	484/66	7	8.14	7.65	12.340	10.91	23.98	PASS
		MCS0	484+242 MRU4	6.5	8.14	7.49	12.129	10.84	23.98	PASS
106	5530	MCS0	full	115	12.14	11.69	31.160	14.94	23.98	PASS
		MCS0	484/65	7.5	8.63	7.05	12.368	10.92	23.98	PASS
		MCS0	484+242 MRU1	7	8.63	6.47	11.733	10.69	23.98	PASS
122	5610	MCS0	full	110	12.18	11.76	31.551	14.99	23.98	PASS
		MCS0	484/66	6.5	8.05	7.82	12.439	10.95	23.98	PASS
		MCS0	484+242 MRU4	6.5	8.02	7.73	12.271	10.89	23.98	PASS
138	5690	MCS0	full	110	11.62	11.28	27.946	14.46	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	110	1.96	1.40	2.949	4.70	30	PASS
155	5775	MCS0	full	110	11.68	12.05	30.790	14.88	30	PASS
		MCS0	484/65	6.5	7.81	8.10	12.499	10.97	30	PASS
		MCS0	484/66	6.5	7.62	7.74	11.727	10.69	30	PASS
		MCS0	484+242 MRU1	6.5	7.71	7.88	12.042	10.81	30	PASS
		MCS0	484+242 MRU4	6.5	7.70	7.95	12.128	10.84	30	PASS

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802.11be_EHT160_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
50	5250	MCS0	full	115	11.75	12.00	30.796	14.88	23.98	PASS
		MCS0	996/67	7	7.47	8.40	12.499	10.97	23.98	PASS
		MCS0	996/S67	6.5	7.88	7.82	12.187	10.86	23.98	PASS
		MCS0	996+484 MRU1	6.5	7.59	7.89	11.881	10.75	23.98	PASS
		MCS0	996+484 MRU2	6.5	7.79	7.81	12.039	10.81	23.98	PASS
		MCS0	996+484+242 MRU1	6.5	7.47	7.88	11.734	10.69	23.98	PASS
		MCS0	996+484+242 MRU2	6.5	7.57	7.85	11.822	10.73	23.98	PASS
114	5570	MCS0	full	115	11.90	12.03	31.431	14.97	23.98	PASS
		MCS0	996/67	6.5	7.65	7.76	11.787	10.71	23.98	PASS
		MCS0	996/S67	6.5	8.04	7.87	12.487	10.96	23.98	PASS
		MCS0	996+484 MRU3	6.5	7.88	7.93	12.334	10.91	23.98	PASS
		MCS0	996+484 MRU4	6.5	7.80	7.83	12.081	10.82	23.98	PASS
		MCS0	996+484+242 MRU7	6.5	7.85	7.87	12.231	10.87	23.98	PASS
		MCS0	996+484+242 MRU8	6.5	7.84	7.88	12.231	10.87	23.98	PASS

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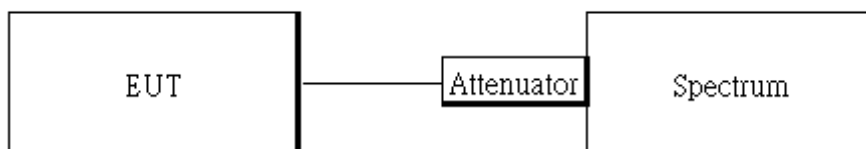
10 MAXIMUM POWER SPECTRAL DENSITY

10.1 FCC Standard

Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1		Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
		Indoor Access Point (Master)	17dBm / MHz	6dBi
		Fixed point-to-point Access Point	17dBm / MHz	23dBi
	V	Client device	11dBm / MHz	6dBi
U-NII-2A	V	All	11dBm / MHz	6dBi
U-NII-2C	V	All	11dBm / MHz	6dBi
U-NII-3	V	All	30dBm / 500kHz	6dBi
U-NII-4		Indoor AP	20dBm / MHz e.i.r.p.	Not required
		indoor client	14dBm / MHz e.i.r.p.	Not required
		subordinate device	20dBm / MHz e.i.r.p.	Not required

If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.

10.2 Test Setup



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10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. For U-NII1, U-NII-2A, U-NII-2C Band:
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
5. Use the cursor on spectrum to peak search the highest level of trace
6. (1)Duty cycle ≥ 98% : Record the max. reading.
(2)Duty cycle < 98% : Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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10.4 Measurement Result

POWER DENSITY 802.11a MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	1.861	0.481	0.00	4.24		11.00 dBm/MHz	-6.76
5220	-0.440	1.463	0.00	3.63		11.00 dBm/MHz	-7.37
5240	0.157	0.940	0.00	3.58		11.00 dBm/MHz	-7.42
5260	0.289	0.321	0.00	3.32		11.00 dBm/MHz	-7.68
5300	0.441	-0.281	0.00	3.11		11.00 dBm/MHz	-7.89
5320	0.581	-0.835	0.00	2.94		11.00 dBm/MHz	-8.06
5500	0.831	0.595	0.00	3.72		11.00 dBm/MHz	-7.28
5580	1.495	1.394	0.00	4.46		11.00 dBm/MHz	-6.54
5700	1.113	1.765	0.00	4.46		11.00 dBm/MHz	-6.54
5720 (U-NII 2C)	0.789	1.751	0.00	4.31		11.00 dBm/MHz	-6.69
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-4.591	-3.747	0.00	2.22	1.08	30.00 dBm/500kHz	-28.92
5745	-3.788	-3.186	0.00	2.22	1.75	30.00 dBm/500kHz	-28.25
5785	-3.327	-3.435	0.00	2.22	1.85	30.00 dBm/500kHz	-28.15
5825	-3.654	-3.374	0.00	2.22	1.72	30.00 dBm/500kHz	-28.28

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POWER DENSITY 802.11b EHT20 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	full	-1.591	0.089	0.00	2.34		11.00 dBm/MHz	-8.66
	26/0	-2.454	-0.257	0.19	1.98		11.00 dBm/MHz	-9.02
	52/37	-0.954	-1.803	0.20	1.85		11.00 dBm/MHz	-9.15
	106/53	-0.927	-1.226	0.17	2.11		11.00 dBm/MHz	-8.89
	52+26 MRU1	-1.523	-1.065	0.20	1.92		11.00 dBm/MHz	-9.08
	106+26 MRU1	-1.656	-1.287	0.14	1.68		11.00 dBm/MHz	-9.32
5220	full	-0.547	1.138	0.00	3.39		11.00 dBm/MHz	-7.61
5240	full	-0.080	0.609	0.00	3.29		11.00 dBm/MHz	-7.71
5260	full	0.040	-0.023	0.00	3.02		11.00 dBm/MHz	-7.98
5300	full	0.325	-0.480	0.00	2.95		11.00 dBm/MHz	-8.05
5320	full	0.349	-1.203	0.00	2.65		11.00 dBm/MHz	-8.35
	26/8	-0.790	-1.713	0.19	1.97		11.00 dBm/MHz	-9.03
	52/40	-0.369	-1.064	0.20	2.51		11.00 dBm/MHz	-8.49
	106/54	0.328	-1.787	0.17	2.58		11.00 dBm/MHz	-8.42
	52+26 MRU3	-0.921	-1.646	0.20	1.94		11.00 dBm/MHz	-9.06
	106+26 MRU2	-0.847	-2.706	0.14	1.47		11.00 dBm/MHz	-9.53
5500	full	0.424	-0.167	0.00	3.15		11.00 dBm/MHz	-7.85
	26/0	-0.158	-0.572	0.19	2.84		11.00 dBm/MHz	-8.16
	52/37	-0.652	-0.512	0.20	2.63		11.00 dBm/MHz	-8.37
	106/53	-0.159	-1.569	0.17	2.37		11.00 dBm/MHz	-8.63
	52+26 MRU1	-1.114	-0.200	0.20	2.58		11.00 dBm/MHz	-8.42
	106+26 MRU1	-0.158	-1.791	0.14	2.25		11.00 dBm/MHz	-8.75
5580	full	0.902	0.904	0.00	3.91		11.00 dBm/MHz	-7.09
5700	full	1.012	1.694	0.00	4.38		11.00 dBm/MHz	-6.62
	26/8	0.385	1.025	0.19	3.92		11.00 dBm/MHz	-7.08
	52/40	0.047	1.745	0.20	4.19		11.00 dBm/MHz	-6.81
	106/54	0.806	0.404	0.17	3.79		11.00 dBm/MHz	-7.21
	52+26 MRU3	-0.567	0.932	0.20	3.46		11.00 dBm/MHz	-7.54
	106+26 MRU2	-0.197	-1.137	0.14	2.51		11.00 dBm/MHz	-8.49
5720 (U-NII 2C)	full	0.568	1.532	0.00	4.09		11.00 dBm/MHz	-6.91
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	full	-4.778	-3.818	0.00	2.22	0.96	30.00 dBm/500kHz	-29.04
5745	full	-5.110	-4.168	0.00	2.22	0.62	30.00 dBm/500kHz	-29.38
	26/0	-7.476	-3.795	0.19	2.22	0.16	30.00 dBm/500kHz	-29.84
	52/37	-5.843	-4.318	0.20	2.22	0.42	30.00 dBm/500kHz	-29.58
	106/53	-4.635	-4.995	0.17	2.22	0.59	30.00 dBm/500kHz	-29.41
	52+26 MRU1	-5.719	-4.641	0.20	2.22	0.28	30.00 dBm/500kHz	-29.72
	106+26 MRU1	-5.565	-5.825	0.14	2.22	-0.32	30.00 dBm/500kHz	-30.32
5785	full	-3.778	-3.764	0.00	2.22	1.46	30.00 dBm/500kHz	-28.54
5825	full	-4.743	-4.269	0.00	2.22	0.73	30.00 dBm/500kHz	-29.27
	26/8	-4.940	-4.463	0.19	2.22	0.73	30.00 dBm/500kHz	-29.27
	52/40	-6.133	-4.334	0.20	2.22	0.29	30.00 dBm/500kHz	-29.71
	106/54	-6.702	-4.809	0.17	2.22	-0.25	30.00 dBm/500kHz	-30.25
	52+26 MRU3	-5.806	-4.253	0.20	2.22	0.47	30.00 dBm/500kHz	-29.53
	106+26 MRU2	-4.921	-5.819	0.14	2.22	0.02	30.00 dBm/500kHz	-29.98

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POWER DENSITY 802.11be EHT40 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	full	-0.632	-2.700	0.00	1.47		11.00 dBm/MHz	-9.53
	242/61	-2.360	-3.677	0.23	0.27		11.00 dBm/MHz	-10.73
5230	full	-3.034	-2.443	0.00	0.28		11.00 dBm/MHz	-10.72
5270	full	-3.204	-3.409	0.00	-0.29		11.00 dBm/MHz	-11.29
5310	full	-2.681	-3.913	0.00	-0.24		11.00 dBm/MHz	-11.24
	242/62	-3.344	-4.549	0.23	-0.66		11.00 dBm/MHz	-11.66
5510	full	-2.601	-2.317	0.00	0.55		11.00 dBm/MHz	-10.45
	242/61	-3.658	-4.438	0.23	-0.79		11.00 dBm/MHz	-11.79
5550	full	-2.679	-2.250	0.00	0.55		11.00 dBm/MHz	-10.45
5670	full	-1.553	-2.328	0.00	1.09		11.00 dBm/MHz	-9.91
	242/62	-2.664	-3.502	0.23	0.18		11.00 dBm/MHz	-10.82
5710 (U-NII 2C)	full	-2.309	-2.211	0.00	0.75		11.00 dBm/MHz	-10.25
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	full	-8.729	-7.590	0.00	2.22	-2.89	30.00 dBm/500kHz	-32.89
5755	full	-7.745	-6.798	0.00	2.22	-2.02	30.00 dBm/500kHz	-32.02
	242/61	-7.743	-8.640	0.23	2.22	-2.71	30.00 dBm/500kHz	-32.71
5795	full	-7.279	-7.291	0.00	2.22	-2.05	30.00 dBm/500kHz	-32.05
	242/62	-7.513	-8.270	0.23	2.22	-2.41	30.00 dBm/501kHz	-32.41
POWER DENSITY 802.11be EHT80 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	full	-4.072	-5.465	0.00	-1.70		11.00 dBm/MHz	-12.70
	484/65	-4.953	-6.909	0.24	-2.57		11.00 dBm/MHz	-13.57
	484+242 MRU1	-6.641	-7.962	0.13	-4.11		11.00 dBm/MHz	-15.11
5290	full	-5.669	-6.149	0.00	-2.89		11.00 dBm/MHz	-13.89
	484/66	-6.623	-7.346	0.24	-3.72		11.00 dBm/MHz	-14.72
	484+242 MRU4	-7.743	-9.280	0.13	-5.30		11.00 dBm/MHz	-16.30
5530	full	-4.100	-4.705	0.00	-1.38		11.00 dBm/MHz	-12.38
	484/65	-5.805	-7.662	0.24	-3.38		11.00 dBm/MHz	-14.38
	484+242 MRU1	-6.873	-9.697	0.13	-4.92		11.00 dBm/MHz	-15.92
5610	full	-4.120	-4.916	0.00	-1.49		11.00 dBm/MHz	-12.49
	484/66	-5.552	-6.046	0.24	-2.54		11.00 dBm/MHz	-13.54
	484+242 MRU4	-7.338	-7.570	0.13	-4.31		11.00 dBm/MHz	-15.31
5690 (U-NII 2C)	full	-3.877	-5.036	0.00	-1.41		11.00 dBm/MHz	-12.41
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	full	-11.576	-10.421	0.00	2.22	-5.73	30.00 dBm/500kHz	-35.73
5775	full	-10.191	-9.850	0.00	2.22	-4.79	30.00 dBm/500kHz	-34.79
	484/65	-10.780	-11.188	0.24	2.22	-5.51	30.00 dBm/500kHz	-35.51
	484/66	-10.431	-11.469	0.24	2.22	-5.45	30.00 dBm/500kHz	-35.45
	484+242 MRU1	-12.203	-12.717	0.13	2.22	-7.09	30.00 dBm/500kHz	-37.09
	484+242 MRU4	-12.327	-12.650	0.13	2.22	-7.13	30.00 dBm/500kHz	-37.13

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POWER DENSITY 802.11be EHT160 MODE							
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit	Margin (dB)
5250	full	-7.374	-7.686	0.00	-4.52	11.00 dBm/MHz	-15.52
	996/67	-7.677	-9.086	0.25	-5.06	11.00 dBm/MHz	-16.06
	996/S67	-8.923	-9.110	0.25	-5.76	11.00 dBm/MHz	-16.76
	996+484 MRU1	-9.974	-11.048	0.25	-7.22	11.00 dBm/MHz	-18.22
	996+484 MRU2	-9.888	-10.933	0.25	-7.12	11.00 dBm/MHz	-18.12
	996+484+242 MRU1	-10.943	-11.946	0.00	-8.41	11.00 dBm/MHz	-19.41
	996+484+242 MRU2	-10.832	-12.082	0.00	-8.40	11.00 dBm/MHz	-19.40
5570	full	-6.760	-6.836	0.00	-3.79	11.00 dBm/MHz	-14.79
	996/67	-8.458	-9.066	0.25	-5.49	11.00 dBm/MHz	-16.49
	996/S67	-8.135	-8.678	0.25	-5.14	11.00 dBm/MHz	-16.14
	996+484 MRU3	-9.752	-10.599	0.25	-6.89	11.00 dBm/MHz	-17.89
	996+484 MRU4	-10.718	-10.647	0.25	-7.42	11.00 dBm/MHz	-18.42
	996+484+242 MRU7	-10.230	-11.294	0.00	-7.72	11.00 dBm/MHz	-18.72
	996+484+242 MRU8	-10.228	-11.473	0.00	-7.80	11.00 dBm/MHz	-18.80

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802.11a_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz



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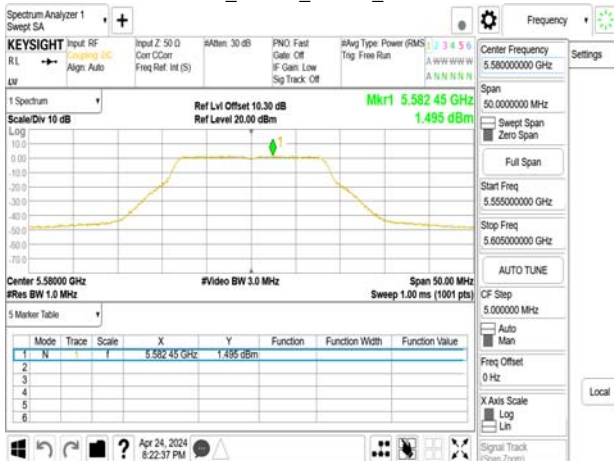
802.11a_20MHz_Chain0_5500MHz



802.11a_20MHz_Chain0_5720MHz_UNII 2C



802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5720MHz_UNII 3



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5745MHz



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802.11a_20MHz_Chain0_5785MHz



802.11a_20MHz_Chain1_5220MHz



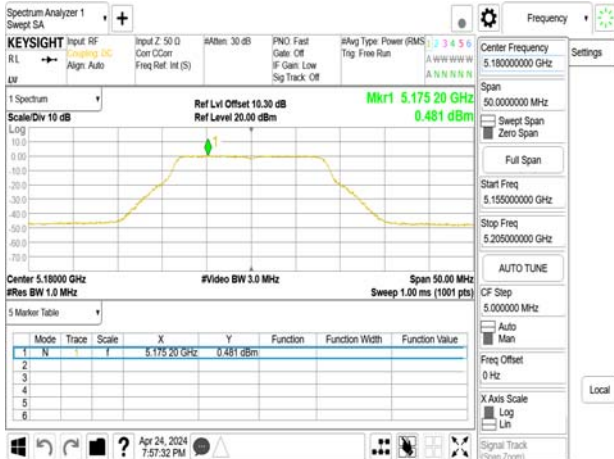
802.11a_20MHz_Chain0_5825MHz



802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5180MHz



802.11a_20MHz_Chain1_5260MHz



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802.11a_20MHz_Chain1_5300MHz



802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5320MHz



802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5720MHz_UNII 2C



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802.11a_20MHz_Chain1_5720MHz_UNI3



802.11a_20MHz_Chain1_5825MHz



802.11a_20MHz_Chain1_5745MHz



802.11be_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain1_5785MHz



802.11be_20MHz_Chain0_5180MHz_106+26_MRU1

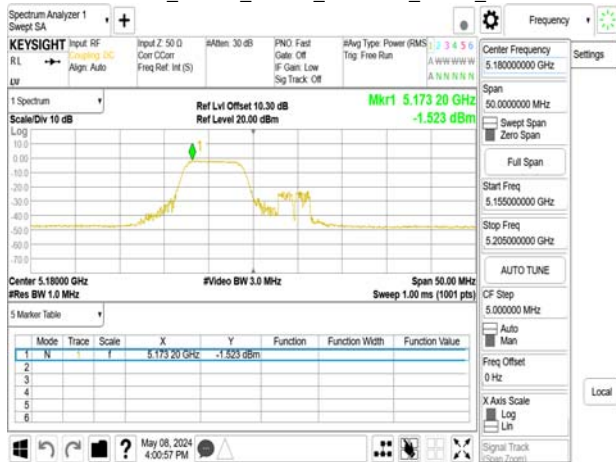


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802.11be_20MHz_Chain0_5180MHz_52+26_MRU1



802.11be_20MHz_Chain0_5180MHz_RU52_37



802.11be_20MHz_Chain0_5180MHz_RU106_53



802.11be_20MHz_Chain0_5220MHz



802.11be_20MHz_Chain0_5180MHz_RU26_0



802.11be_20MHz_Chain0_5240MHz



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