



ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**



Applicant: Manufacturer:	HTC Corporation No. 88, Section 3, Zhongxing Rd. Xindian Dist., New Taipei City 231, Taiwan HTC Corporation No. 88, Section 3, Zhongxing Rd. Xindian Dist., New Taipei City 231, Taiwan
Product Name:	Headset
Brand Name:	VIVE
Model No.:	2QBB100
Model Difference:	N/A
Report Number:	TERF2207001115E2
FCC ID	NM82QBB100
Date of EUT Received:	Jul. 19, 2022
Date of Test:	Jul. 27, 2022~Sep. 28, 2022
Issue Date:	Nov. 25, 2022

Approved By

Vito Pei

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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History						
Report Number Revision Description Issue Date Revised By Revised By					Remark	
TERF2207001115E2	00	Original.	Nov. 16, 2022	Yi-Shan Tsai		
TERF2207001115E2	01	Update Brand of Adapter	Nov. 25, 2022	Yi-Shan Tsai	*	

Note:

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

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GENERAL INFORMATION 1

1.1 **Product Description**

Product Name:	Headset
Brand Name:	VIVE
Model No.:	2QBB100
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	TE-2207000102P M1 E2 (Conducted) TE_SP_20220905591 (Conduction 、Radiated)
Power Supply:	Battery Cradle 5V 3A, 9V 1.57A, 12V 1.5A
Test Software (Name/Version)	QRCT V4.0.00163.0 / QSPR V5.0.00188 (Conducted) adb tool / V6.1 & QRCT / V4.0 & QSPR / V5.0 (Conduction 、 Radiated)

1.2 **Modulation & Data Rate**

	64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation type:	256QAM for OFDM in 802.11ac
	256QAM,1024QAM for OFDMA in 802.11ax
	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: up to 144.4 Mbps
	802.11 n_40MHz: up to 300 Mbps
	802.11 ac_20MHz: up to 173.4 Mbps
	802.11 ac_40MHz: up to 400 Mbps
Transition Rate:	802.11 ac_80MHz: up to 866.6 Mbps
	802.11 ac_160MHz: up to 1733.4 Mbps
	802.11 ax_20MHz: up to 286.8 Mbps
	802.11 ax_40MHz: up to 573.6 Mbps
	802.11 ax_80MHz: up to 1201 Mbps
	802.11 ax_160MHz: up to 2402 Mbps

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1.3 **Antenna Designation**

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)	Direction Gain(dBi)
	5150~5250	2.56	5.33
Dipole	5250~5350	2.56	5.33
	5470~5725	2.83	4.34
	5725~5850	2.68	4.30
	5150~5250	2.08	5.33
Dipole	5250~5350	2.08	5.33
	5470~5725	-0.48	4.34
	5725~5850	-0.36	4.30

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.

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + ... + 10^{G_N/20})^2 / N_{ANT}] dBi$

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FCC 1.4

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a/	5180~5240	4	17.54 dBm	OFDMA
n_HT/	5260~5320	4	19.96 dBm	OFDM
ac_VHT/ ax_HE	5500~5720	12	19.92 dBm	OFDM
20M	5745-5825	5	19.95 dBm	OFDM
	5190~5230	2	17.45 dBm	OFDM
n_HT ac_VHT/	5270~5310	2	19.91 dBm	OFDM
ax_HE 40M	5510~5710	6	19.89 dBm	OFDM
40101	5755-5795	2	19.93 dBm	OFDMA
	5210	1	17.44 dBm	OFDMA
ac_VHT/	5290	1	19.50 dBm	OFDM
ax_HE 80M	5530~5690	3	19.82 dBm	OFDM
	5775	1	19.94 dBm	OFDMA
ac_VHT/	5250	1	18.43 dBm	OFDMA
ax_HE 160M	5570	1	17.90 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 FCC KDB 291074 D02 EMC Measurement v01 ANSI C63.10:2013

1.6 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 2		
		SAC 3		
	No 124 We Kung Dood New Toingi	Conduction 1		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New	Conducted 1	TW0027	
	Taipei City, Taiwan.	Conducted 2	100027	TW3702
	Taiper City, Taiwan.	Conducted 3		
		Conducted 4	-	
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No 2 Kaji 1at Pd. Cujahan District	Conducted A		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B	TW0028	
	Tabyuan City, Taiwan 555	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		
	ame is remarked on the equipmen measurements occurred in specif			s an indica-

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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SYSTEM TEST CONFIGURATION 2

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.

Test Procedure 2.3

2.3.1**Conducted Emissions**

The EUT is a 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.

Radiated Emissions 2.3.3

The EUT is a 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

2.4.1Radiated 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:

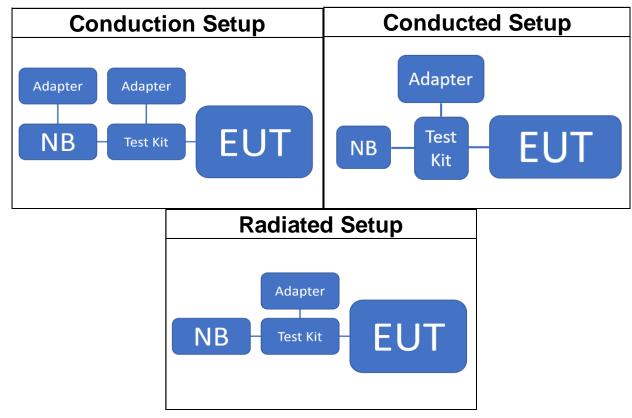
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 **Test Configuration**



2.6 Control Unit(s)

	AC Power	-Line Conducted Emissic	on Test Site: Conduction	С	
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440p	P0000665	N/A	N/A
Adapter	Lenovo	ADLX90NLC3A	N/A	N/A	N/A
1.2M C-to-C cable	VIVE	C807M3A03E1M2	N/A	N/A	N/A
USB Cable	Hawk	CAD150	N/A	N/A	N/A
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A
Test kit	VIVE	2QBB100-TB	N/A	N/A	N/A
	Co	onducted Emission Test	Site: Conducted D		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
USB Cable	Hawk	CAD150	N/A	N/A	N/A
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A
Test kit	VIVE	2QBB100-TB	N/A	N/A	N/A
Notebook	Lenovo	T420	S0012599	N/A	N/A
		Radiated Emission Te	est Site: SAC D		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440p	P0000665	N/A	N/A
USB Cable	Hawk	CAD150	N/A	N/A	N/A
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A
Test kit	VIVE	2QBB100-TB	N/A	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 Emis- sions	Compliant
§15.407(c)	Transmission in case of Ab- sence of Information	Compliant
§15.203	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES 4

4.1 **Operating Frequencies**

Operated band in 5150 MHz ~5250 MHz:

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

Ope	an	d	
2	0 M		
СН	Freq		(
011	(MHz))
52	5260		1,
56	5280		6
60	5300		
64	5320		

Freq (MHz) 5530 5610 5690

d in 5250 MHz ~5350 MHz:									
40 M			8	0 M					
СН	Freq (MHz)		СН	Freq (MHz)					
54	5270		58	5290					
62	5310								

· · JJJU WITIZ.								
8	0 M	160 M						
СН	Freq (MHz)	СН	Freq (MHz)					
58	5290	50	5250					
	-	80 M CH Freq (MHz) 58 5290	CH Freq (MHz) CH					

Operated band in 5470 MHz ~5725 MHz:

		-		-	-
20 M		4	0 M	8	0 M
Freq		сц	Freq	сц	Fre
(MHz)		СП	(MHz)	СП	(M⊦
5500		102	5510	106	553
5520		110	5550	122	561
5540		118	5590	138	569
5560		126	5630		
5580		134	5670		
5600		142	5710		
5620					
5640					
5660					
	Freq (MHz) 5500 5520 5540 5560 5580 5600 5620 5640	Freq (MHz) 5500 5520 5540 5560 5580 5600 5620 5640	Freq (MHz) CH 5500 102 5520 110 5540 118 5560 126 5580 134 5600 142 5620 5640	Freq (MHz) CH Freq (MHz) 5500 102 5510 5520 110 5550 5540 118 5590 5560 126 5630 5580 134 5670 5600 142 5710 5620 5640 142	Freq (MHz) CH Freq (MHz) CH 5500 102 5510 106 5520 110 5550 122 5540 118 5590 138 5560 126 5630 134 5560 142 5710 5620 5640 142 5710 5640

160 M						
СН	Freq (MHz)					
114	5570					

20 M							
СН	Freq (MHz)						
149	5745						
153	5765						
157	5785						
161	5805						
165	5825						

			•
4	0 M	8	0 M
СН	Freq (MHz)	СН	Freq (MHz)
151	5755	155	5775
159	5795		

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136

140 44 5680 5700

5720



4.2 The Worst Test Modes and Channel Details

- The EUT has been tested under operating condition. 1.
- 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				Tr	Single ansmission Spatial	Multiple Transmission Spatial		
v	802.11 a	۷	Ch0	۷	Ch1		Ch2	Ch3		1TX	۷	2TX
v	802.11 n	۷	Ch0	۷	Ch1		Ch2	Ch3		1TX	۷	2TX
v	802.11 ac	۷	Ch0	۷	Ch1		Ch2	Ch3		1TX	۷	2TX
v	802.11 ax	V	Ch0	۷	Ch1		Ch2	Ch3		1TX	۷	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.

RADIATED EMISSION TEST (BELOW 1 GHz)										
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT				
	5180~5240 36 to 48 44									
802.11a	5260~5320	52 to 64	60		OFDM 6	2TX				
002.118	5500~5720	100 to 144	116			217				
	5745~5825	149 to 165	157							

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		RADIATE	DEMISSION T	EST (ABOVE	1 GHz)			
MODE	FREQUENCY	AVAILABLE	TESTED		DATA	RATE	ANTENNA	
MODE	BAND (MHz)	CHANNEL	CHANNEL	MODULATION		ops)	PORT	
	5180~5240	36 to 48	36,44,48		, ,	. /		
000.44	5260~5320	52 to 64	52,60,64	05514		a	ATT (
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM		6	2TX	
	5745~5825	149 to 165	149,157,165	•				
	5180~5240	36 to 48	36,44,48					
000 44 11700	5260~5320	52 to 64	52,60,64	05014			077/	
802.11n_HT20	5500~5720	100 to 144	100,116,140,144	OFDM	MC	CS0	2TX	
	5745~5825	149 to 165	149,157,165					
	5190~5230	38 to 46	38,46					
000 44 11740	5270~5310	54 to 62	54,62	05514				
802.11n_HT40	5510~5670	102 to 142	102,110,134,142	OFDM	MC	2TX		
	5755~5795	151 to 159	151,159					
	5210	42	42					
	5290	58	58	05014			077/	
802.11ac_VHT80	5530~5610	106 to 138	106,122,138	OFDM	INIC	CS0	2TX	
	5775	155	155					
	5250	50	50	05014	MCS0		077/	
802.11ac_VHT160	5570	114	114	OFDM			2TX	
	·	RADIATE	DEMISSION T	EST (ABOVE	1 GHz)			
MODE	FREQUENCY	AVAILABLE	TESTED		RU	DATA RATE	ANTENNA	
MODE	BAND (MHz)	CHANNEL	CHANNEL	MODULATION	CONFIGURATI	(Mbps)	PORT	
	5180~5240	36 to 48	36,44,48		FULL RU			
000 44 11500	5260~5320	52 to 64	52,60,64		26/0,26/8	14000	077/	
802.11ax_HE20	5500~5720	100 to 144	100,116,140,144	OFDMA	52/37,52/40	MCS0	2TX	
	5745~5825	149 to 165	149,157,165	1	106/53,106/54			
	5190~5230	38 to 46	38,46					
000 11av UE 10	5270~5310	54 to 62	54,62		FULL RU	MOCO	OTV	
802.11ax_HE40	5510~5670	102 to 142	102,110,134,142	OFDMA	242/61,242/62	MCS0	2TX	
	5755~5795	151 to 159	151,159					
	5210	42	42					
	5290	58	58		FULL RU	MCCO	οτv	
802.11ax_HE80	5530~5610	106 to 138	106,122,138	OFDMA	484/65,484/66	MCS0	2TX	
	5775	155	155					
	5250	50	50		FULL RU	MCCO	отv	
802.11ax_HE160	5570	114	114	OFDMA	996/67,996/S6	MCS0	2TX	

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	- 1		CONDUCTE	D TEST			
	FREQUENCY	AVAILABLE	TESTED		DATA	RATE	ANTENNA
MODE	BAND (MHz)	CHANNEL	CHANNEL	MODULATION	(Mbps)		PORT
	5180~5240	36 to 48	36,44,48		, ,	1 /	
000.44	5260~5320	52 to 64	52,60,64	05514		2	
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM		6	2TX
	5745~5825	149 to 165	149,157,165				
	5180~5240	36 to 48	36,44,48				
000 44 11700	5260~5320	52 to 64	52,60,64		M		077/
802.11n_HT20	5500~5720	100 to 144	100,116,140,144	OFDM	IVIC	CS0	2TX
	5745~5825	149 to 165	149,157,165				
	5190~5230	38 to 46	38,46				
000 44m LIT40	5270~5310	54 to 62	54,62		M		
802.11n_HT40	5510~5670	102 to 142	102,110,134,142	OFDM	МС	2TX	
	5755~5795	151 to 159	151,159				
	5210	42	42				
000 44 \// 1700	5290	58	58		M		077/
802.11ac_VHT80	5530~5610	106 to 138	106,122,138	OFDM	IMIC	CS0	2TX
	5775	155	155				
	5250	50	50		M		OTV
802.11ac_VHT160	5570	114	114	OFDM	MCS0		2TX
			CONDUCTE	D TEST			
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATI	DATA RATE (Mbps)	ANTENNA PORT
	5180~5240	36 to 48	36,44,48		FULL RU	(
	5260~5320	52 to 64	52,60,64		26/0,26/8		-
802.11ax_HE20	5500~5720	100 to 144	100,116,140,144	OFDMA	52/37,52/40	MCS0	2TX
	5745~5825	149 to 165	149,157,165		106/53,106/54		
	5190~5230	38 to 46	38,46		,		
	5270~5310	54 to 62	54,62	0.55141	FULL RU		0 77 (
802.11ax_HE40	5510~5670	102 to 142	102,110,134,142	OFDMA	242/61,242/62	MCS0	2TX
	5755~5795	151 to 159	151,159				
	5210	42	42				
	5290	58	58	055111	FULL RU	14000	<u></u>
802.11ax_HE80	5530~5610	106 to 138	106,122,138	OFDMA	484/65,484/66	MCS0	2TX
	5775	155	155		,		
000 44	5250	50	50	055111	FULL RU		0774
802.11ax_HE160	5570	114	114	OFDMA	996/67,996/S6	MCS0	2TX

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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MEASUREMENT UNCERTAINTY 5

Test Items	Uncertainty			
AC Power Line Conducted Emission	+/-	2.34	dB	
Output Power measurement	+/-	1	dB	
Emission Bandwidth	+/-	1.53	Hz	
Undesignable radiated emission measure- ment	+/-	1.68	dB	
Peak Power Density	+/-	1.62	dB	
Temperature	+/-	0.4	°C	
Humidity	+/-	3.5	%	
DC / AC Power Source	+/-	1	%	

Radiated Spurious Emission Measurement Uncertainty				
	+/-	2.57	dB	9kHz~30MHz
Polarization: Vertical	+/-	4.85	dB	30MHz - 1000MHz
	+/-	4.45	dB	1GHz - 18GHz
	+/-	4.24	dB	18GHz - 40GHz
	+/-	2.57	dB	9kHz~30MHz
Polarization: Horizontal	+/-	4.37	dB	30MHz - 1000MHz
Polarization: Horizontal	+/-	4.45	dB	1GHz - 18GHz
	+/-	4.24	dB	18GHz - 40GHz

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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MEASUREMENT EQUIPMENT USED 6

6.1 Emission from AC power line

	AC Power-Line Conducted Emission Test Site: Conduction C						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
LISN	SCHWARZBECK Mess- Elektronik	NSLK8127	973	04/13/2022	04/12/2023		
EMI Test Receiver	R&S	ESCI	101342	04/25/2022	04/24/2023		
Coaxial Cable	EC La b	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2022	03/26/2023		
Pulse Limiter	EC La b	VTSD 9561F-N	485	03/27/2022	03/26/2023		
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R		

6.2 **Condcuted Measurement**

	Conducted Emission Test Site: Conducted D						
EQUIPMENT TYPE	MENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DU						
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/16/2022	05/15/2023		
Power Meter	Anritsu	ML2496A	1512003	07/26/2022	07/25/2023		
Power Sensor	Anritsu	MA2411B	1339378	07/26/2022	07/25/2023		
Power Sensor	Anritsu	MA2411B	1339379	07/26/2022	07/25/2023		
Attenuator	Marvelous	WATT-218FS-10	RF16	11/18/2021	11/17/2022		
Attenuator	Marvelous	WATT-218FS-10	RF23	11/18/2021	11/17/2022		
DC Block	PASTERNACK	PE8210	RF158	11/18/2021	11/17/2022		

6.3 **Radiated Measurement**

	Radiated Emission Test Site: SAC D						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	11/12/2021	11/11/2022		
Horn Antenna	Schwarzbeck	BBHA9170	185	08/22/2022	08/21/2023		
Horn Antenna	Schwarzbeck	BBHA9170	184	12/16/2021	12/15/2022		
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/31/2022	05/30/2023		
Loop Antenna	ETS.LINDGREN	6502	143303	05/14/2022	05/13/2023		
3m Site NSA	SGS	966 chamber D	N/A	04/30/2022	04/29/2023		
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/24/2022	03/23/2023		
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R		
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022		
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/18/2021	11/17/2022		
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/18/2021	11/17/2022		
Attenuator	Marvelous	MVE2213-10	RF05	11/18/2021	11/17/2022		
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/18/2021	11/17/2022		
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/18/2021	11/17/2022		
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/18/2021	11/17/2022		

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

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CONDUCTED EMISSION TEST 7

7.1 Standard Applicable

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

Frequency range		₋imits dBuV)
MHz	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		

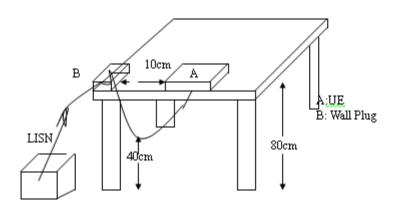
1. The lower limit shall apply at the transition frequencies

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 rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- 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 Test Mode Power Probe	:TERF22070 :802.11a :120V/60Hz :L1	001115E2	Test Site Test Date Temp./Hu Engineer	umi. :24.7/54	9-28	
80 Level (dBuV)					
70.0						
60.0						
50.0						
40.0	W 4	5	. 7			
30.0	"Amake some	mound	www.www.	Man marty	An M	
20.0					M LANG	
10.0						
0.15	0.5	1 Freque	2 ency (MHz)	5 10	20 30	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
1104.		eading Level	1 dotor	FS	Linit	margin
MHz	PK/QP/AV	dBµV	dB	dBμV	dBµV	dB
0.152	Average	16.50	10.30	26.80	55.91	-29.11
0.152	QP	34.80	10.30	45.10	65.91	-20.81
0.286 0.608	Peak Peak	33.97 31.08	10.30 10.32	44.28 41.40	60.63 56.00	-16.35 -14.60
1.223	Peak	26.04	10.52	36.62	56.00	-14.00
1.829	Peak	23.90	11.06	34.96	56.00	-21.04
3.041	Peak	24.30	10.88	35.18	56.00	-20.82

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Report Number	:TERF22070	01115E2	Test Site	:Condu	uction C	
Test Mode	:802.11a		Test Date	e :2022-	09-28	
Power	:120V/60Hz		Temp./H	umi. :24.7/5	4	
Probe	:N		Enginee	r :Howa	rd Huang	
80 Level (d	dBuV)					
70.0						
70.0						
60.0						
50.0						
40.0	3 4					
	marken		and the second			
30.0	Month When I	and the market with	when he had had	May March	with MV	
20.0					<u> </u>	
10.0						
0.15	0.5	1 Freque	2 ncy (MHz)	5 10	20 30	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		ading Level		FS		-
MHz F	PK/QP/AV	dBµV	dB	dBµV	dBμV	dB
0.155	Average	16.10	10.31	26.41	55.74	-29.33
0.155	Average QP	33.60	10.31	43.91	65.74	-29.33
0.283	Peak	33.88	10.31	44.19	60.72	-16.53
0.608	Peak	30.97	10.33	41.30	56.00	-14.70
1.223	Peak	26.31	10.59	36.90	56.00	-19.10
1.829	Peak	23.65	11.07	34.72	56.00	-21.28
3.041	Peak	25.04	10.89	35.93	56.00	-20.07

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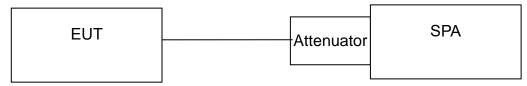


EMISSION BANDWIDTH MEASUREMENT 8

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	18.85	12.750
5220	18.84	12.750
5240	18.90	12.760
5260	18.54	12.680
5300	18.78	12.740
5320	18.95	12.780
5500	18.67	12.710
5580	18.75	12.730
5700	18.92	12.770
5720(U-NII 2C)	14.41	11.590
5720(U-NII 3)	4.41	6.440

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.36	12.140
5785	16.35	12.140
5825	16.36	12.140

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.13	< 5250
5745	5736.76	> 5725

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802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.66	12.710
5220	18.65	12.710
5240	18.62	12.700
5260	18.51	12.670
5300	18.80	12.740
5320	18.59	12.690
5500	18.75	12.730
5580	18.59	12.690
5700	18.85	12.750
5720(U-NII 2C)	14.55	11.630
5720(U-NII 3)	4.55	6.580

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.36	12.140
5785	16.33	12.130
5825	16.38	12.140

802.11a Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.14	< 5250
5745	5736.75	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.02	13.010
5220	20.06	13.020
5240	19.90	12.990
5260	19.99	13.010
5300	19.66	12.940
5320	19.90	12.990
5500	19.89	12.990
5580	19.75	12.960
5700	20.11	13.030
5720(U-NII 2C)	15.06	11.780
5720(U-NII 3)	5.06	7.050

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.56	12.450
5785	17.69	12.480
5825	17.60	12.460

802.11n HT20 Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.718626	< 5250
5745	5736.150212	> 5725

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802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.66	12.940
5220	19.85	12.980
5240	19.85	12.980
5260	19.74	12.950
5300	19.94	13.000
5320	20.04	13.020
5500	19.93	13.000
5580	19.86	12.980
5700	19.97	13.000
5720(U-NII 2C)	15.02	11.770
5720(U-NII 3)	5.02	7.010

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.60	12.460
5785	17.57	12.450
5825	17.63	12.460

802.11n HT20 Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.753304	< 5250
5745	5736.151534	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.72	15.990
5230	39.95	16.020
5270	39.53	15.970
5310	40.18	16.040
5510	39.62	15.980
5550	40.02	16.020
5670	39.86	16.010
5710(U-NII 2C)	34.95	15.440
5710(U-NII 3)	4.95	6.950

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.77	15.540
5795	35.67	15.520

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.00	< 5250
5755	5736.90	> 5725

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802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.42	15.960
5230	39.80	16.000
5270	39.58	15.970
5310	39.73	15.990
5510	39.75	15.990
5550	39.79	16.000
5670	39.53	15.970
5710(U-NII 2C)	34.83	15.420
5710(U-NII 3)	4.83	6.840

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.89	15.550
5795	36.55	15.630

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.06	< 5250
5755	5736.85	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.13	19.090
5290	80.97	19.080
5530	80.93	19.080
5610	80.70	19.070
5690(U-NII 2C)	75.35	18.770
5690(U-NII 3)	5.35	7.280

802.11ac_VHT80_Ch0

Freq. (MHz)	40.36	10 Log (B) (dB)
5775	72.86	18.620

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.738782	163
5775	5737.230119	164

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802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.58	19.120
5290	81.21	19.100
5530	81.39	19.110
5610	80.60	19.060
5690(U-NII 2C)	75.53	18.780
5690(U-NII 3)	5.53	7.430

802.11ac_VHT80_Ch1

Freq. (MHz)	40.13	10 Log (B) (dB)
5775	76.45	18.830

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.611604	165
5775	5737.264278	165

802.11ac_VHT160_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	163.50	22.140
5570	164.40	22.160

802.11ac_VHT160_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	164.90	22.170
5570	165.30	22.180

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802.11ax_HE20_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	21.15	13.250
5220	full	21.06	13.230
5240	full	20.47	13.110
5260	full	20.83	13.190
5300	full	20.69	13.160
5320	full	20.67	13.150
5500	full	20.55	13.130
5580	full	20.51	13.120
5700	full	20.62	13.140
5720 (U-NII 2C)	full	15.27	11.840
5720 (U-NII 3)	full	5.27	7.210

802.11ax_HE20_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	18.85	12.750
5785	full	18.98	12.780
5825	full	18.94	12.770

802.11ax_HE20_Ch0

Fre (MH	-	Measured Freq. (MHz)	Limit (MHz)
524	40	5249.392323	< 5250
574	45	5735.499804	> 5725

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802.11ax_HE20_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	20.88	13.200
5220	full	20.53	13.120
5240	full	20.81	13.180
5260	full	20.90	13.200
5300	full	20.59	13.140
5320	full	21.10	13.240
5500	full	20.50	13.120
5580	full	20.52	13.120
5700	full	20.88	13.200
5720 (U-NII 2C)	full	15.30	11.850
5720 (U-NII 3)	full	5.30	7.240

802.11ax_HE20_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	19.01	12.790
5785	full	19.10	12.810
5825	full	18.84	12.750

802.11ax_HE20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.387400	< 5250
5745	5735.492389	> 5725

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802.11ax_HE40_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	39.82	16.000
5230	full	40.36	16.060
5270	full	40.04	16.020
5310	full	39.84	16.000
5510	full	40.47	16.070
5550	full	40.17	16.040
5670	full	39.89	16.010
5710 (U-NII 2C)	full	34.97	15.440
5710 (U-NII 3)	full	4.97	6.960

802.11ax_HE40_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	37.98	15.800
5795	full	36.39	15.610

802.11ax_HE40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.836129	< 5250
5755	5736.090131	> 5725

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802.11ax_HE40_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	39.91	16.010
5230	full	40.13	16.030
5270	full	40.56	16.080
5310	full	40.06	16.030
5510	full	40.07	16.030
5550	full	39.57	15.970
5670	full	40.13	16.030
5710 (U-NII 2C)	full	35.07	15.450
5710 (U-NII 3)	full	5.07	7.050

802.11ax_HE40_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	37.78	15.770
5795	full	37.54	15.740

802.11ax_HE40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.843521	< 5250
5755	5736.122477	> 5725

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802.11ax_HE80_Ch0

RU config	26dB BW (MHz)	10 Log (B) (dB)
full	81.08	19.090
full	81.48	19.110
full	81.33	19.100
full	81.71	19.120
full	75.90	18.800
full	5.90	7.700
	full full full full full full	RU config BW (MHz) full 81.08 full 81.33 full 81.71 full 75.90

802.11ax_HE80_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	77.89	18.910

802.11ax_HE80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.540706	< 5250
5775	5736.351935	> 5725

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802.11ax_HE80_Ch1

RU config	26dB BW (MHz)	10 Log (B) (dB)
full	81.13	19.090
full	80.77	19.070
full	81.00	19.080
full	80.88	19.080
full	75.34	18.770
full	5.34	7.270
	full full full full full	RU config BW (MHz) full 81.13 full 80.77 full 81.00 full 81.33 full 81.43 full 81.43 full 81.43 full 81.43 full 81.43 full 81.43 full 5.34

802.11ax_HE80_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	77.34	18.880

802.11ax_HE80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.496210	< 5250
5775	5736.474893	> 5725

802.11ax_HE160_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	164.80	22.170
5570	full	165.50	22.190

802.11ax_HE160_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	164.40	22.160
5570	full	165.10	22.180

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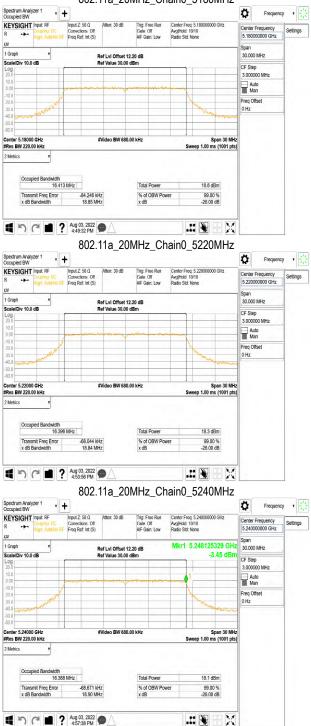
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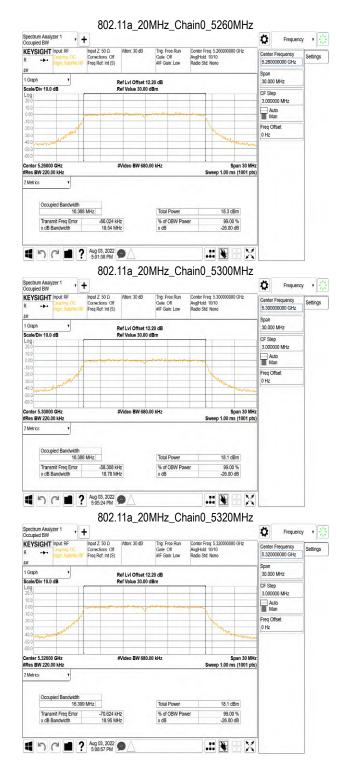
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802.11a 20MHz Chain0 5180MHz





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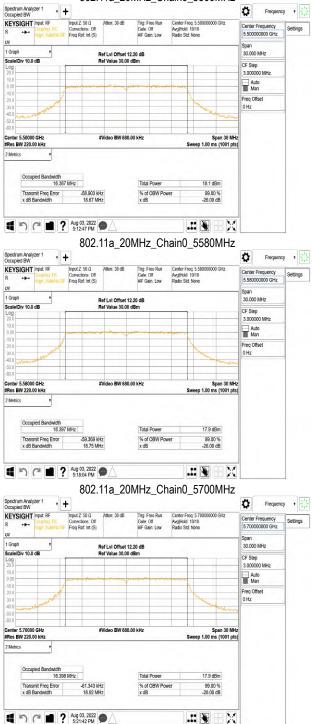
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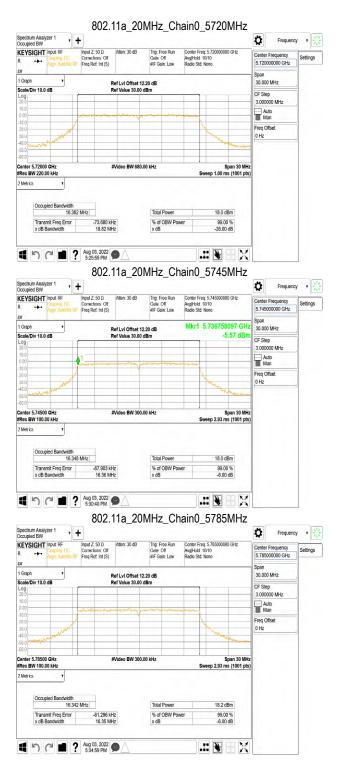
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802.11a 20MHz Chain0 5500MHz





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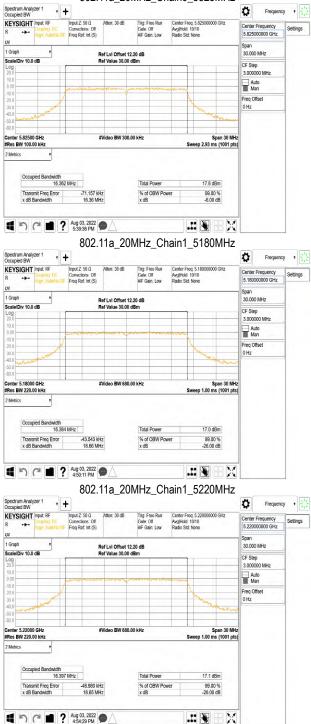
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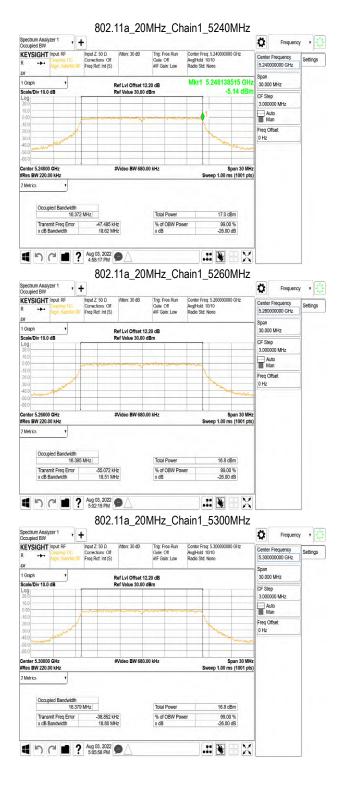
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802.11a 20MHz Chain0 5825MHz





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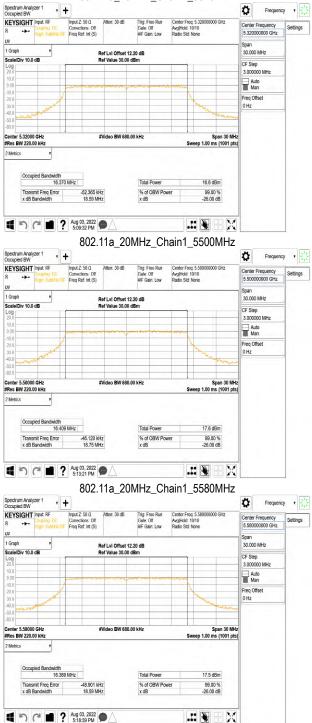
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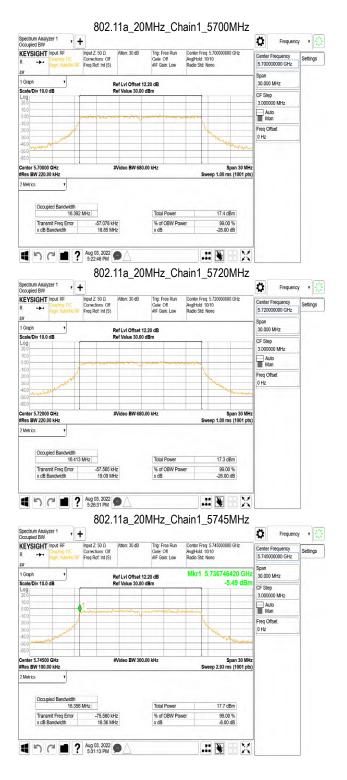
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802.11a 20MHz Chain1 5320MHz





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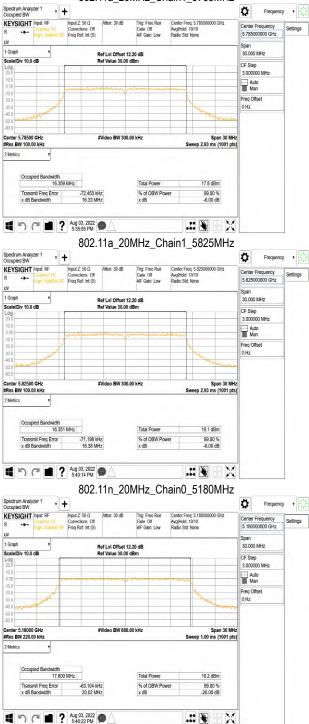
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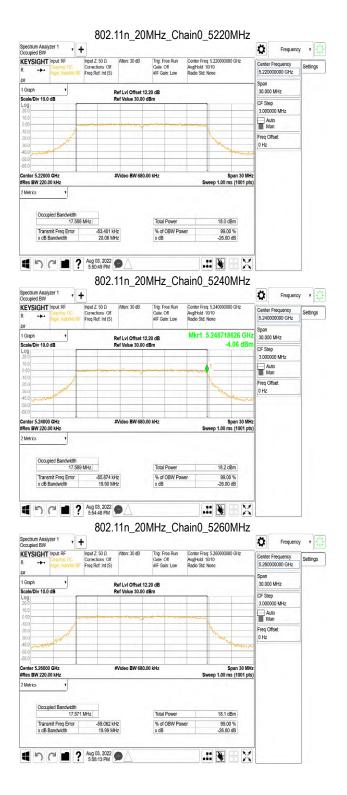
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802.11a 20MHz Chain1 5785MHz





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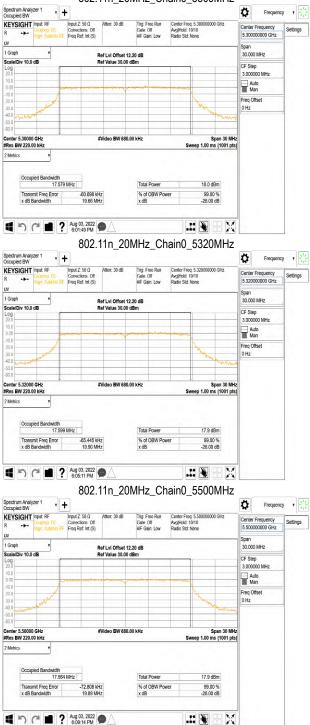
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802.11n 20MHz Chain0 5300MHz





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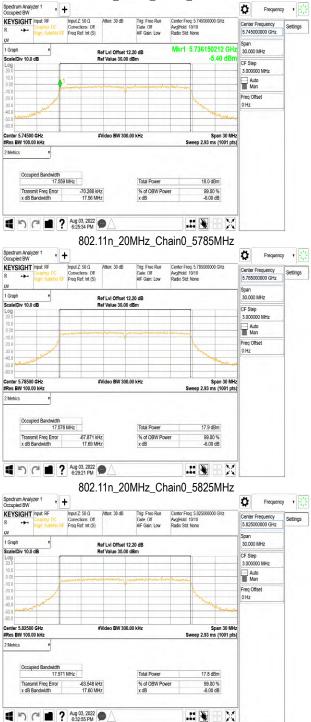
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802.11n 20MHz Chain0 5745MHz





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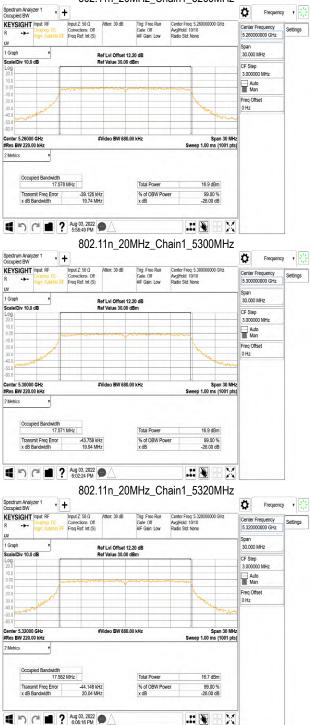
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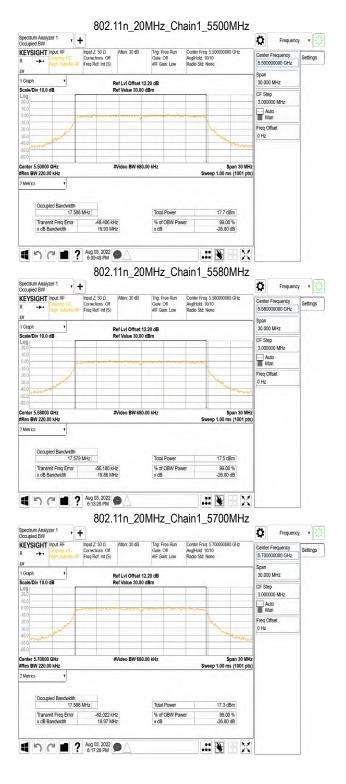
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802.11n 20MHz Chain1 5260MHz





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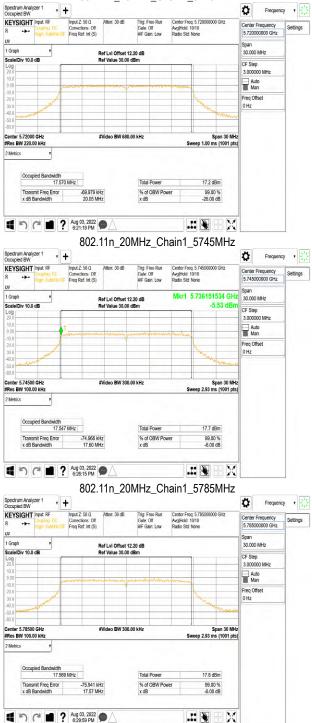
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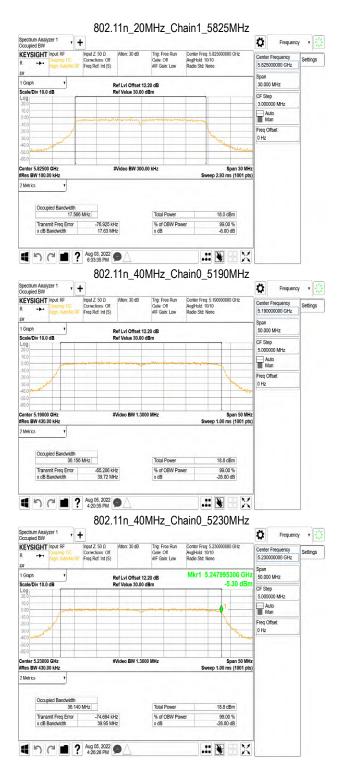
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802.11n 20MHz Chain1 5720MHz





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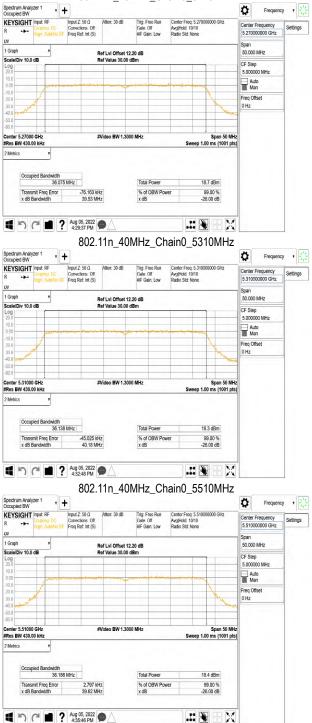
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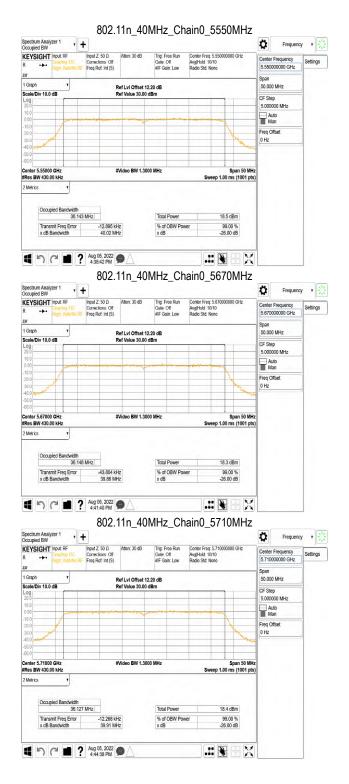
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802.11n 40MHz Chain0 5270MHz





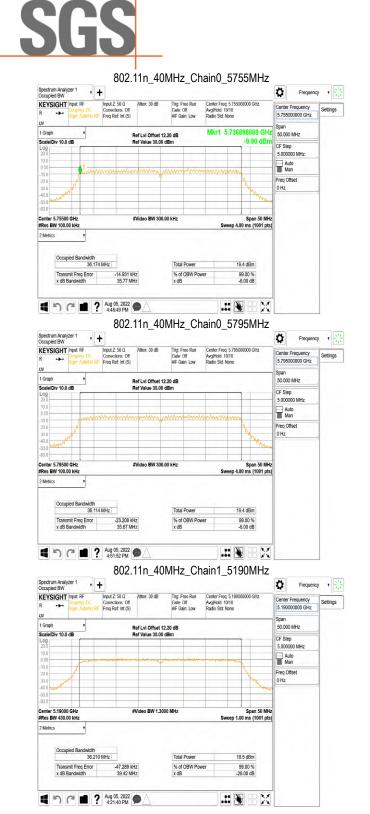
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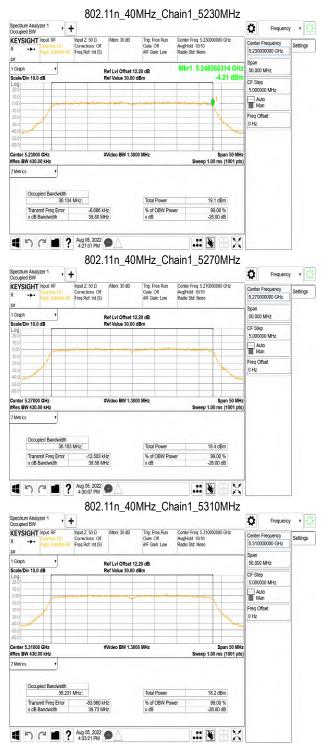
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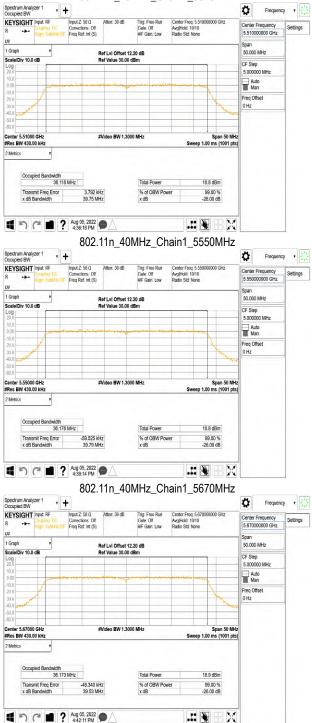
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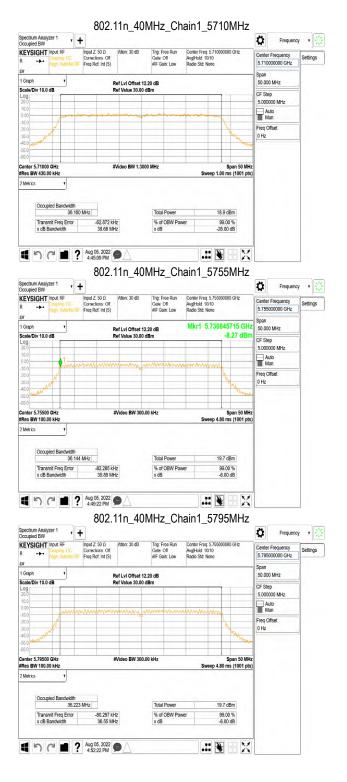
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802.11n_40MHz_Chain1_5510MHz





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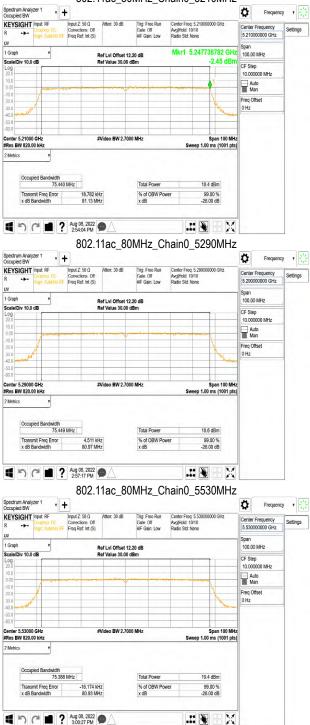
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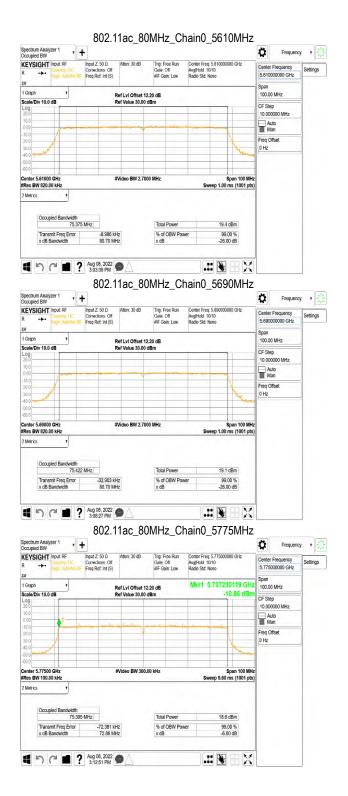
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802.11ac 80MHz Chain0 5210MHz





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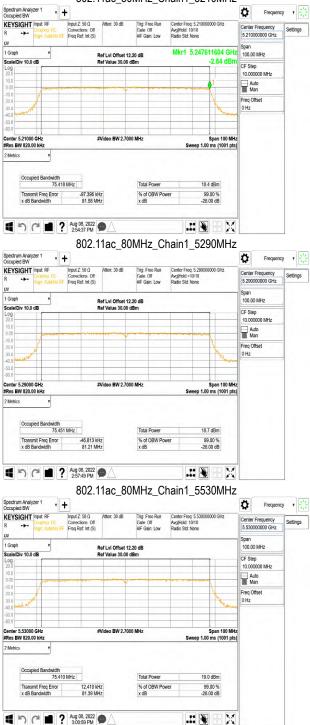
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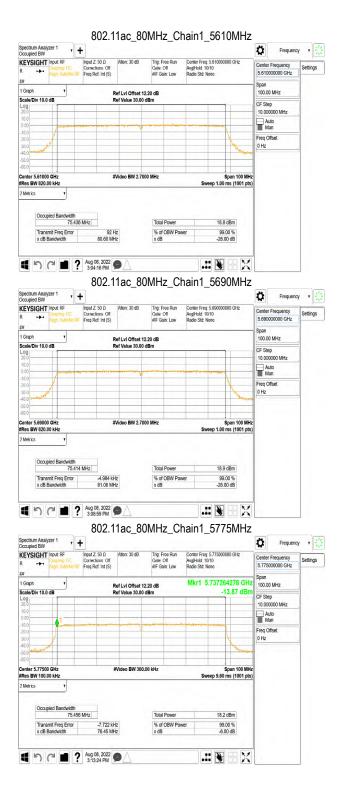
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802.11ac 80MHz Chain1 5210MHz





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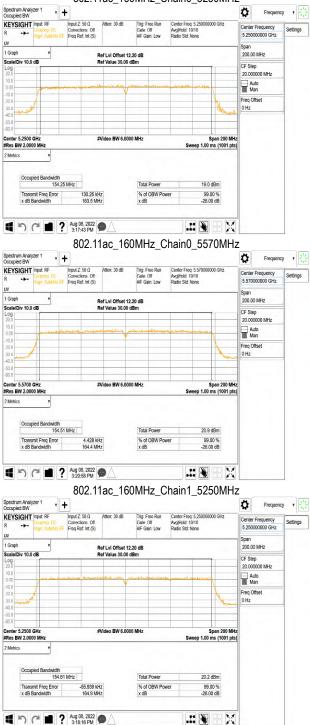
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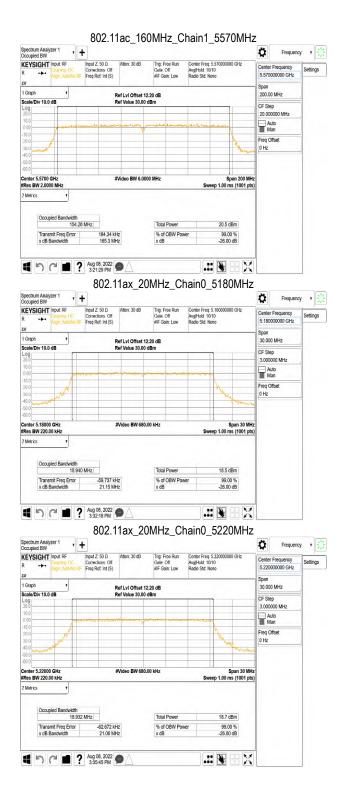
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802.11ac 160MHz Chain0 5250MHz





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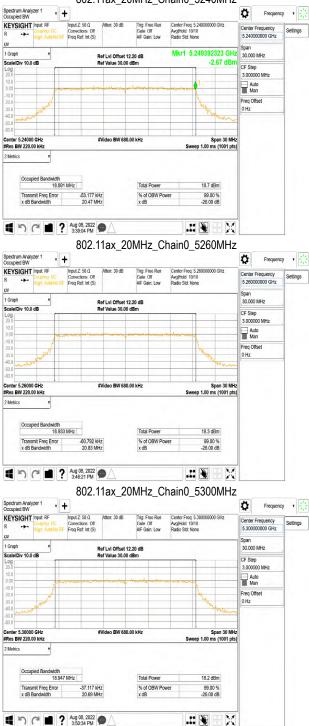
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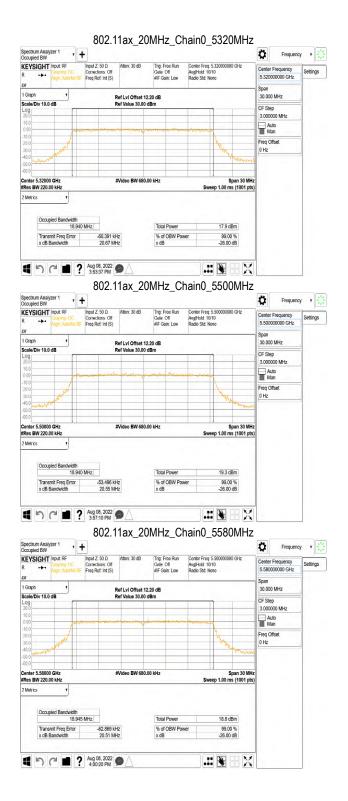
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802.11ax 20MHz Chain0 5240MHz





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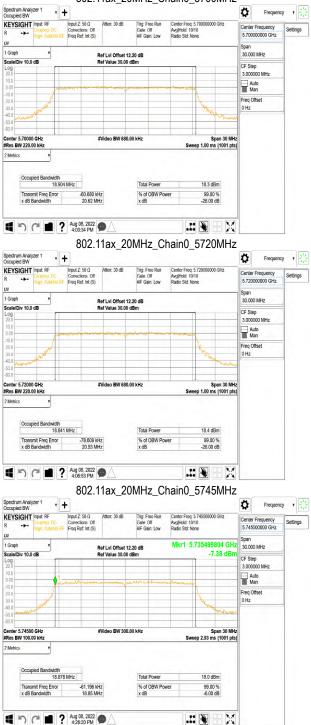
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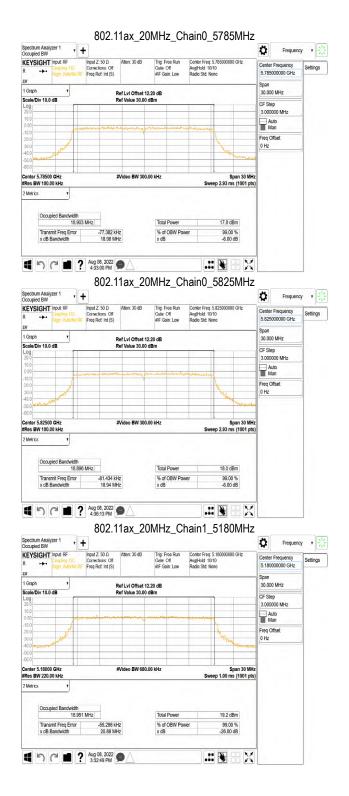
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802.11ax 20MHz Chain0 5700MHz





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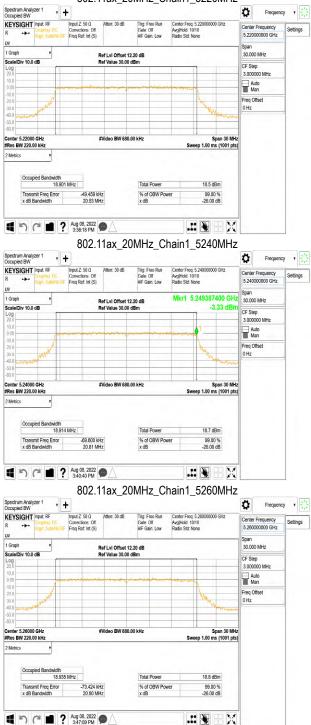
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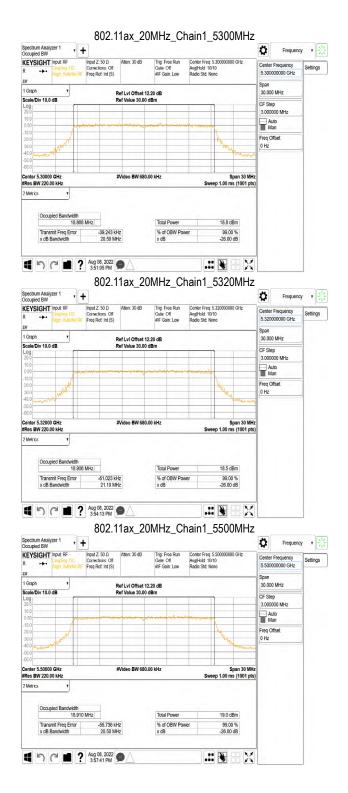
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802.11ax 20MHz Chain1 5220MHz





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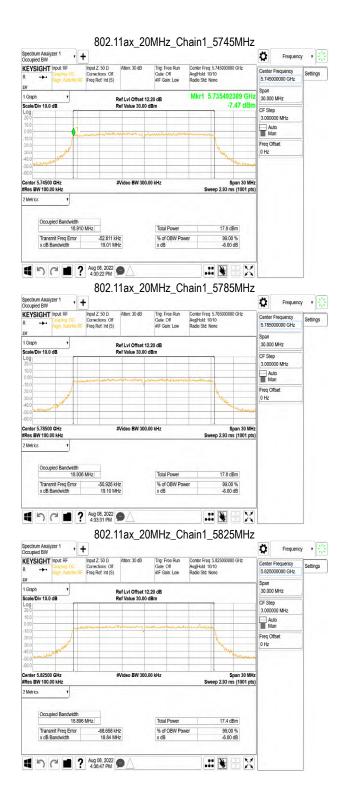
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802.11ax 20MHz Chain1 5580MHz





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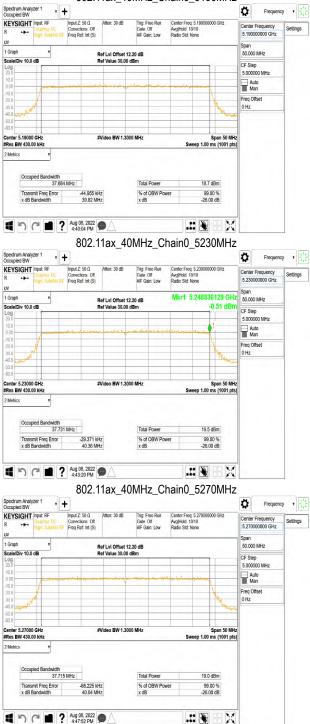
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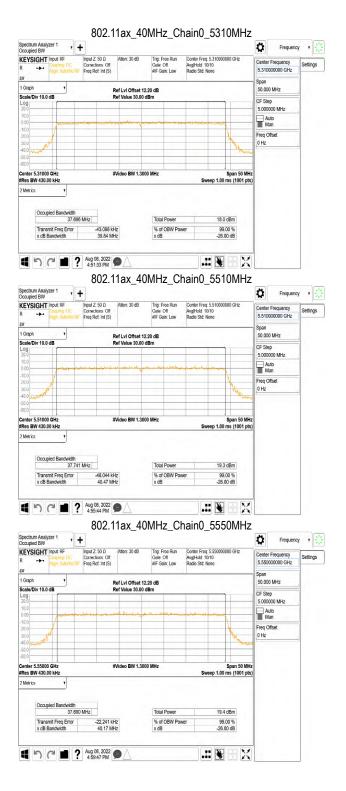
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802.11ax 40MHz Chain0 5190MHz





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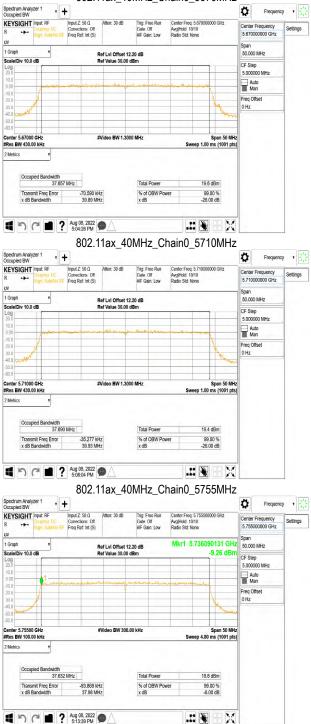
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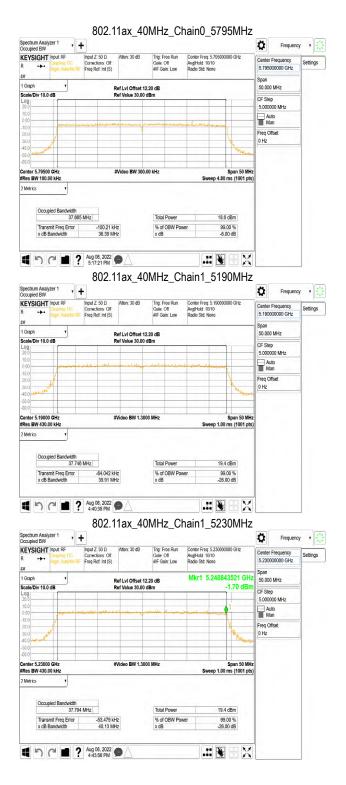
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802.11ax 40MHz Chain0 5670MHz





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