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# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

**Applicant:** Murata Manufacturing Co., Ltd.

10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto 617-8555

Japan

**Product Name:** Communication Module

**Brand Name:** muRata

LBEE6ZZ2AJ Model No.:

**Model Difference:** N/A

**Report Number:** ER/2020/B0047

FCC ID VPYLB2AJ IC: 772C-LB2AJ

FCC Rule Part: §15.407, Cat: U-NII

**ISED RSS:** RSS-247 issue 2 Feb. 2017

Feb. 22, 2021 **Issue Date:** 

Nov. 19, 2020 ~ Jan. 12, 2021 **Date of Test:** 

Date of EUT Re-Nov. 19, 2020

ceived:

# 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 tested as described in this report is in compliance with conducted and radiated emission limits.

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

Approved By:

Jim Chang / Manager





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	Revision History				
Report Number	Revision	Description	Issue Date	Remark	
ER/2020/B0047	Rev.00	Original.	Feb. 22, 2021	Revised By: Yuri Tsai	

### Note:

# 1 · Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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# **GENERAL INFORMATION**

#### 1.1 **Product Description**

Product Nam	me: Communication Module				
Brand Name	:	muRata			
Model No.:		LBEE6ZZ2AJ			
Model Differe	ence:	N/A			
Hardware Ve	ersion:	1.0			
Software Version:		1.0			
EUT Series No.:		2AJ-1			
Power Supply:		3.85 Vdc			
Modulation type		64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11n 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA 802.11ax			
Transition Rate:	802.11a: 6/9/12/18/24/36/48/54 Mbps 802.11n_20MHz: 6.5-144.4Mbps 802.11n_40MHz: 13.5-300.0Mbps		802.11ac_20MHz: 6.5-173.3Mbps 802.11ac_40MHz: 13.5-400.0Mbps 802.11ac_80MHz: 29.3-866.7Mbps 802.11ax_20MHz: 0.4-286.8Mbps 802.11ax_40MHz: 0.4-573.5Mbps 802.11ax_80MHz: 0.4-1201Mbps		

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### 1.2 **Antenna Designation**

Antenna			Antenna		Peak An-	Worst
Type	Supplier	Port	Part No.	Freq. (MHz)	tenna Gain	Case
Type					(dBi)	Scenario
				5150~5250		
Patch	TE	Port-WLAN1	955-011-901	5250~5350	-5.00	
Patti	'-	POIT-WLAINT	955-011-901	5470~5725	-5.00	
				5725~5850		
				5150~5250		
Datah		Dowt M/L AND	055 044 004	5250~5350	2.20	
Patch	TE	Port-WLAN2	955-011-901	5470~5725	-2.30	V
				5725~5850		

Note: Investigation has been done to determine the worst case scenario for the above antennas demonstrated with measurements in this report.

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# 1.3 FCC worst power

IEEE 802.11	Frequency Range(MHz)	Channels		wer (Avg.) /orst case)	Modulation Technology
002.11	5150~5250	4		.99	recrimenegy
	5250~5350	4	12	.96	0
а	5470~5725	12	12	.98	OFDM
	5725-5850	5	12	.99	
n HT	5150~5250	4	HE:	15.97	
ac_VHT	5250~5350	4	HE:	15.98	
ax_HE	5470~5725	12	HE:	15.99	OFDM / OFDMA
20M	5725-5850	5	HE:	15.98	
n HT	5150~5250	2	HE:	15.99	
ac_VHT	5250~5350	2	HE:	15.95	OFDM / OFDMA
ax_HE	5470~5725	6	HT:	15.91	OI DIVI / OI DIVIA
40M	5725-5850	2	HT:	15.95	
ac_VHT	5150~5250	1	HE:	15.99	
	5250~5350	1	HE:	15.96	OFDM / OFDMA
ax_HE 80M	5470~5725	3	VHT:	15.98	
	5725-5850	1	VHT:	15.97	

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### 1.4 ISED worst power

IEEE 802.11	Frequency Range (MHz)	Channels	Avg. or EIRP	Rated Power(dBm) (Worst Case)	Modulation Technology	
	5150~5250	4	EIRP	7.99		
	5250~5350	4	Avg.	12.96	OFDM	
а	5470~5725	9	Avg.	12.98		
	5725-5850	5	Avg.	12.99		
	5150~5250	4	EIRP	HT: 15.40		
n_HT	5250~5350	4	Avg.	HT: 15.61	OFDM	
ac_VHT 20M	5470~5725	9	Avg.	HT: 15.92	OFDM	
20111	5725-5850	5	Avg.	HT: 15.76		
	5150~5250	2	EIRP	HT: 15.29		
n_HT	5250~5350	2	Avg.	HT: 15.65	OFDM	
ac_VHT 40M	5470~5725	4	Avg.	HT: 15.91	OFDM	
10111	5725-5850	2	Avg.	HT: 15.95		
	5150~5250	1	EIRP	VHT: 15.00	OFDM	
ac_VHT	5250~5350	1	Avg.	VHT: 15.54		
80M	5470~5725	2	Avg.	VHT: 15.98		
	5725-5850	1	Avg.	VHT: 15.97		
	5150~5250	4	EIRP	HE: 15.43		
ax_HE	5250~5350	4	Avg.	HE: 15.98		
20M	5470~5725	9	Avg.	HE: 15.99	OFDMA	
	5725-5850	5	Avg.	HE: 15.98		
	5150~5250	2	EIRP	HE: 15.45		
ax_HE	5250~5350	2	Avg.	HE: 15.95	OEDMA	
40M	5470~5725	4	Avg.	HE: 15.81	OFDMA	
	5725-5850	2	Avg.	HE: 15.89		
ax HE	5150~5250	1	EIRP	HE: 15.45		
	5250~5350	1	Avg.	HE: 15.96		
80M	5470~5725	2	Avg.	HE: 15.83	OFDMA	
	5725-5850	1	Avg.	HE: 15.96		

### Note:

As per guidance in presentation 2018-04-10-03 IC Certification updates of April 2018 TCB workshop, Client (Slave mode) devices without active scanning function, but with the cabability of operating in 5600-5650 MHz solely under the control of a certified master device meeting the requirement of RSS-247, are allowed in Canada.

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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

RSS-247 issue 2 Feb. 2017

RSS-Gen. issue 5, Amendment 1, March 2019

ANSI C63.10:2013

### 1.6 **Test Facility**

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

FCC Designation number: TW0027

ISED CAB identifier: TW3702

#### 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

### **EUT Configuration** 2.1

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 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.

#### **Conducted Test (RF)** 2.3.2

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 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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#### **Measurement Results Explanation Example** 2.4

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

Radiated emission below 30MHz is measured in a 9m\*9m\*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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### **Configuration of Tested System** 2.5

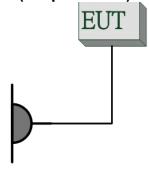
Fig. 2-1 Radiated Emission Configuration



Fig. 2-2 Conducted (Antenna Port) Emission Configuration



Fig. 2-3 Conducted (AC powerline) Emission Configuration



**Table 2-1 Equipment Used in Tested System** 

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Soft- ware	N/A	N/A	N/A	N/A	N/A
2	Notebook	Lenovo	L430	R9-XFG0X	N/A	N/A
3	DC Power Sup- ply	Agilent	E3640A	MY52410006	N/A	N/A
4	DC Power Sup- ply	Agilent	E3640A	KR93300208	N/A	N/A

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# **SUMMARY OF TEST RESULT**

FCC Rules	IC Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	RSS-Gen §6.7 RSS-247 §6.2.4.1	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.203 §15.407(a)	N/A	Antenna Requirement	Compliant

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# 4 DESCRIPTION OF TEST MODES

# 4.1 802.11a/n/ac/ax operated in U-NII Bands

# Operated band in 5150 MHz ~5250

2	20 M				
СН	Freq (MHz)				
36	5180				
40	5200				
44	5220				
48	5240				

	MHZ:			
	40 M			
	СН	Freq		
	38	(MHz) 5190		
	46	5230		
,				

	80	) M
	СН	Freq (MHz)
	42	5210
,		

# Operated band in 5250 MHz ~5350 MHz:

•				
20 M				
СН	Freq (MHz)			
52	5260			
56	5280			
60	5300			
64	5320			
52 56 60	5260 5280 5300			

40 M							
CH Freq (MHz)							
54	5270						
62	5310						

8	80 M						
СН	Freq (MHz)						
58	5290						

16	60 M
СН	Freq (MHz)
50	5250

# Operated band in 5470 MHz ~5725 MHz:

20 M							
СН	Freq (MHz)						
100	5500						
104	5520						
108	5540						
112	5560						
116	5580						
120	5600						
124	5620						
128	5640						
132	5660						
136	5680						
140	5700						
144	5720						

4	40 M								
СН	Freq (MHz)								
102	5510								
110	5550								
118	5590								
126	5630								
134	5670								
142	5710								

80 M							
CH	Freq (MHz)						
106	5530						
122	5610						
138	5690						

160 M						
CH Freq (MHz)						
114	5570					

# Operated band in 5745 MHz ~5850 MHz:

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

1411 12.						
40 M						
CH Fred (MHz						
151	5755					
159	5795					

80 M						
СН	Freq (MHz)					
155	5775					

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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 gevin UE is pre-scanned among below modes.

Modulation	Tı	ransmiss	sion Chair	า	Single Transmission Spatial	Multiple Transmission Spatial
⊠ 802.11 a	⊠ Ch0	□ Ch1	☐ Ch2	□ Ch3	☐ 1TX	☐ 2TX
⊠ 802.11 n	⊠ Ch0	⊠ Ch1	☐ Ch2	□ Ch3	☐ SISO	⊠ MIMO
⊠ 802.11 ac	⊠ Ch0	⊠ Ch1	☐ Ch2	□ Ch3	☐ SISO	⊠ MIMO
⊠ 802.11 ax	⊠ Ch0	⊠ Ch1	☐ Ch2	□ Ch3	☐ SISO	⊠ MIMO

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4. Observations have been done for 802.11 ax available RU configurations below and found that the lowest, heighest and Full RU results higher emissions.

	RU			at any give	n ti		2.11	ax)		
<b>8</b> 02.11ax		20MHz				<b>8</b> 02.11ax	40MHz			
RU type	26-tone RU		52-tone RU			RU type	26-	tone RU	!	52-tone RU
	RU0	[-121: -96]	RU37	[-121: -70]			RU0	[-243: -218]	RU37	[-243: -192]
	RU1	[-95: -70]	RU38	[-68: -17]			RU1	[-217: -192]	RU38	[-189: -138]
	RU2	[-68: -43]	RU39	[17: 68]			RU2	[-189: -164]	RU39	[-109: -58]
	RU3	[-42: -17]	RU40	[70: 121]			RU3	[-163: -138]	RU40	[-55: -4]
	RU4	[-16: -4, 4: 16]	RU41	N/A			RU4	[-136: -111]	RU41	[4: 55]
	RU5	[17: 42]	RU42	N/A			RU5	[-109: -84]	RU42	[58: 109]
	RU6	[43: 68]	RU43	N/A			RU6	[-83: -58]	RU43	[138: 189]
	RU7	[70: 95]	RU44	N/A			RU7	[-55: -30]	RU44	[192: 243]
	RU8	[96: 121]	RU45	N/A			RU8	[-29: -4]	RU45	N/A
	RU9	N/A	RU46	N/A			RU9	[4: 29]	RU46	N/A
	RU10	N/A	RU47	N/A			RU10	[30: 55]	RU47	N/A
	RU11	N/A	RU48	N/A			RU11	[58: 83]	RU48	N/A
	RU12	N/A	RU49	N/A			RU12	[84: 109]	RU49	N/A
	RU13	N/A	RU50	N/A			RU13	[111: 136]	RU50	N/A
	RU14	N/A	RU51	N/A			RU14	[138: 163]	RU51	N/A
	RU15	N/A	RU52	N/A			RU15	[164: 189]	RU52	N/A
	RU16	N/A					RU16	[192: 217]		
RU index and	RU17	N/A	10	06-tone RU	RU index and	RU17	[218: 243]	1	06-tone RU	
subcarrier	RU18	N/A	RU53	[-122: -17]		subcarrier range	RU18	N/A	RU53	[-243: -138]
range	RU19	N/A	RU54	[17: 122]			RU19	N/A	RU54	[-109: -4]
	RU20	N/A	RU55	N/A			RU20	N/A	RU55	[4: 109]
	RU21	N/A	RU56	N/A			RU21	N/A	RU56	[138: 243]
	RU22	N/A	RU57	N/A			RU22	N/A	RU57	N/A
	RU23	N/A	RU58	N/A			RU23	N/A	RU58	N/A
	RU24	N/A	RU59	N/A			RU24	N/A	RU59	N/A
	RU25	N/A	RU60	N/A			RU25	N/A	RU60	N/A
	RU26	N/A					RU26	N/A		
	RU27	N/A	24	42-tone RU			RU27	N/A	2	42-tone RU
	RU28	N/A	RU61	[-122: -2, 2:122]			RU28	N/A	RU61	[-244: -3]
	RU29	N/A	RU62	N/A			RU29	N/A	RU62	[3: 244]
	RU30	N/A	RU63	N/A		]	RU30	N/A	RU63	N/A
	RU31	N/A	RU64	N/A		]	RU31	N/A	RU64	N/A
	RU32	N/A					RU32	N/A		
	RU33	N/A					RU33	N/A	_4	84-tone RU
	RU34	N/A					RU34	N/A	RU65	[-244: -3, 3: 244]
	RU35	N/A					RU35	N/A	RU66	N/A
	RU36	N/A				-	RU36	N/A		

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<b>8</b> 02.11ax		80MHz				
RU type	26	6-tone RU	52-tone RU			
	RU0	[-499: -474]	RU37	[-499: -448]		
	RU1	[-473: -448]	RU38	[-445: -394]		
	RU2	[-445: -420]	RU39	[-365: -314]		
	RU3	[-419: -394]	RU40	[-311: -260]		
	RU4	[-392: -367]	RU41	[-257: -206]		
	RU5	[-365: -340]	RU42	[-203: -152]		
	RU6	[-339: -314]	RU43	[-123: -72]		
	RU7	[-311: -286]	RU44	[-69: -18]		
	RU8	[-285: -260]	RU45	[18: 69]		
	RU9	[-257: -232]	RU46	[72: 123]		
	RU10	[-231: -206]	RU47	[152: 203]		
	RU11	[-203: -178]	RU48	[206: 257]		
	RU12	[-177: -152]	RU49	[260: 311]		
	RU13	[-150: -125]	RU50	[314: 365]		
	RU14	[-123: -98]	RU51	[394: 445]		
	RU15	[-97: -72]	RU52	[448: 499]		
	RU16	[-69: -44]	1	06-tone RU		
RU index and	RU17	[-43: -18]	RU53	[-499: -394]		
subcarrier	RU18	[-16: -4, 4: 16]	RU54	[-365: -260]		
range	RU19	[18: 43]	RU55	[-257: -152]		
	RU20	[44: 69]	RU56	[-123: -18]		
	RU21	[72: 97]	RU57	[18: 123]		
	RU22	[98: 123]	RU58	[152: 257]		
	RU23	[125: 150]	RU59	[260: 365]		
	RU24	[152: 177]	RU60	[394: 499]		
	RU25	[178: 203]	2	42-tone RU		
	RU26	[206: 231]	RU61	[-500: -259]		
	RU27	[232: 257]	RU62	[-258: -17]		
	RU28	[260: 285]	RU63	[17: 258]		
	RU29	[286: 311]	RU64	[259: 500]		
	RU30	[314: 339]	4	84-tone RU		
	RU31	[340: 365]	RU65	[-500: -17]		
	RU32	[367: 392]	RU66	[17: 500]		
	RU33	[394: 419]	9	96-tone RU		
	RU34	[420: 445]	RU67	[-500: -3, 3: 500]		
	RU35	[448: 473]				
	RU36	[474: 499]				

5. 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.

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# 4.2.1 RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)										
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA				
IVIODE	BAND (MHz)	CHANNEL	CHANNEL	MODULATION	(Mbps)	PORT				
	5180~5240	36 to 48	44							
802.11a	5260~5320	52 to 64	60	OFDM	6	ch0				
002.114	5500~5700	100 to 140	116	OI DIVI		CHO				
	5745~5825	149 to 165	157							
	5190~5230	42	42							
802.11ax_HE80	5270~5310	58	58	OFDMA	MCS0	MIMO				
002.11ax_11L00	5530~5690	106 to 138	122	OI DIVIA	IVICSU	IVIIIVIO				
	5775	155	155							

	RADIATED EMISSION TEST (ABOVE 1 GHz)										
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA					
WIODL	BAND (MHz)   CHANNEL   CHANNEL	WIODULATION	(Mbps)	PORT							
	5180~5240	36 to 48	36,44,48								
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	ch0					
002.11a	5500~5700	100 to 140	100,116,140	OI DIVI	O	CHO					
	5745~5825	149 to 165	149,157,165								
	5180~5240	36 to 48	36,44,48								
802.11n_HT20	5260~5320	52 to 64	52,60,64	OFDM	MCS8	MIMO					
002.1111_11120	5500~5720	100 to 144	100,116,140,144	OI DIVI	WOSO	IVIIIVIO					
	5745~5825	149 to 165	149,157,165								
	5190~5230	38 to 46	38,46								
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO					
002.1111_11140	5510~5670	102 to 142	102,110,134,142	OI DIVI	IVICSO	IVIIIVIO					
	5755~5795	151 to 159	151,159								
	5210	42	42								
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MIMO					
002.11aC_V11100	5530~5610	106 to 138	106,122,138	OI DIVI	IVICOU	IVIIIVIU					
	5775	155	155								

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RADIATED EMISSION TEST (ABOVE 1 GHz)										
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	RU	DATA RATE	ANTENNA			
IVIODE	BAND (MHz)	CHANNEL	CHANNEL	IVIODULATION	CONFIGURATI	(Mbps)	PORT			
	5180~5240	36 to 48	36,44,48		FULL RU					
802.11ax_HE20	5260~5320	52 to 64	52,60,64	OFDMA	26/0,26/8	MCS0	MIMO			
002.11ax_11L20	5500~5720	100 to 144	100,116,140,144	OI DIVIA	52/37,52/40	IVICSU	IVIIIVIO			
	5745~5825	149 to 165	149,157,165		106/53,106/54					
	5190~5230	38 to 46	38,46			MCS0	MIMO			
802.11ax_HE40	5270~5310	54 to 62	54,62	OFDMA	FULL RU 242/61,242/62					
002.11ax_11L40	5510~5670	102 to 142	102,110,134,142	OI DIVIA						
	5755~5795	151 to 159	151,159							
	5210	42	42							
802.11ax_HE80	5290	58	58	OFDMA	FULL RU	MCS8	MIMO			
602.11ax_FE60	5530~5610	106 to 138	106,122,138	OI DIVIA	484/65,484/66	IVIC30	IVIIIVIU			
	5775	155	155							

### Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n/ac/ax WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

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# 4.2.2 ANTENNA PORT CONDUCTED MEASUREMENT:

	CONDUCTED TEST									
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA				
WIODL	BAND (MHz)	CHANNEL	CHANNEL	WIODULATION	(Mbps)	PORT				
	5180~5240	36 to 48	36,44,48							
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	ch0				
002.114	5500~5700	100 to 140	100,116,140	OI DIVI	O	CHO				
	5745~5825	149 to 165	149,157,165							
	5180~5240	36 to 48	36,44,48							
802.11n_HT20	5260~5320	52 to 64	52,60,64	OFDM	MCS8	MIMO				
002.1111_11120	5500~5720	100 to 144	100,116,140,144	OI DIVI	WOO	IVIIIVIO				
	5745~5825	149 to 165	149,157,165							
	5190~5230	38 to 46	38,46			MIMO				
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8					
002.1111_11140	5510~5670	102 to 142	102,110,134,142	OI DIVI	IVICSO	IVIIIVIO				
	5755~5795	151 to 159	151,159							
	5210	42	42							
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MIMO				
002.11aC_V11100	5530~5610	106 to 138	106,122,138	OI DIVI	IVICOU	IVIIIVIU				
	5775	155	155							

	CONDUCTED TEST										
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	RU	DATA RATE	ANTENNA				
IVIODE	BAND (MHz)	CHANNEL	CHANNEL	WODULATION	CONFIGURATI	(Mbps)	PORT				
	5180~5240	36 to 48	36,44,48		FULL RU						
802.11ax_HE20	5260~5320	52 to 64	52,60,64	OFDMA	26/0,26/8	MCS0	MIMO				
002.11dA_11L20	5500~5720	100 to 144	100,116,140,144	OI DIVIA	52/37,52/40	IVICSU	IVIIIVIO				
	5745~5825	149 to 165	149,157,165		106/53,106/54						
	5190~5230	38 to 46	38,46		FULL RU 242/61,242/62	MCS0	MIMO				
802.11ax_HE40	5270~5310	54 to 62	54,62	OFDMA							
002.11dA_11L40	5510~5670	102 to 142	102,110,134,142	OI DIVIA							
	5755~5795	151 to 159	151,159								
	5210	42	42								
802.11ax_HE80	5290	58	58	OFDMA	FULL RU	MCS0	MIMO				
	5530~5610	106 to 138	106,122,138	OI DIVIA	484/65,484/66	IVICSU	IVIIIVIO				
	5775	155	155								

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# **MEASUREMENT UNCERTAINTY**

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
26dB & 6dB Emission Bandwidth	+/- 1.54 Hz
The Maximum Output Power Meas- urement	+/- 1 dB
Peak Power Spectral Density Meas- urement	+/- 1.54 dB
Frequency Stability	+/- 1.54 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	DC= +/- 1%, AC=+/- 1%

Radiated Spurious Emission Measurement Uncertainty									
	+/-	2.64	dB	9kHz~30MHz: +-2.3dB					
Polarization: Vertical	+/-	4.93	dB	30MHz - 1000MHz: +/- 3.37dB					
Polarization, vertical	+/-	4.81	dB	1GHz - 18GHz: +/- 4.04dB					
	+/-	4.52	dB	18GHz - 40GHz: +/- 4.04dB					
	+/-	2.64	dB	9kHz~30MHz: +-2.3dB					
Polarization: Horizontal	+/-	4.45	dB	30MHz - 1000MHz: +/- 4.22dB					
Polarization. Horizontal	+/-	4.81	dB	1GHz - 18GHz: +/- 4.08dB					
	+/-	4.52	dB	18GHz - 40GHz: +/- 4.08dB					

### 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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# **CONDUCTED EMISSION TEST**

# Standard Applicable

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

Frequency range	Limits dB(uV)					
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

### 6.2 **Measurement Equipment Used**

Conducted Emission Test Site										
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.					
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021					
LISN	SCHWARZBECK	NSLK 8127	8127-465	04/09/2020	04/08/2021					
Coaxial Cables	N/A	Coaxial Cable	161207	12/07/2020	12/06/2021					
Test Software	audix	e3	Ver. 6.11- 20180413	N.C.R	N.C.R					

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

#### 6.3 **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.

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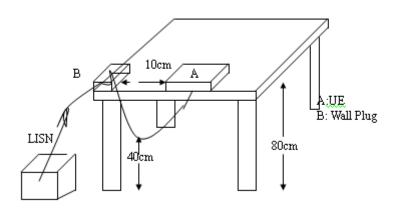
<sup>1.</sup> The lower limit shall apply at the transition frequencies

<sup>2.</sup>The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50



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#### 6.4 **Test SET-UP**



#### 6.5 **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.

#### **Measurement Result** 6.6

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

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

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# AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :ER-2020-B0047

Test Mode :WLAN 5G

:AC 120V/60Hz Power

Probe :L

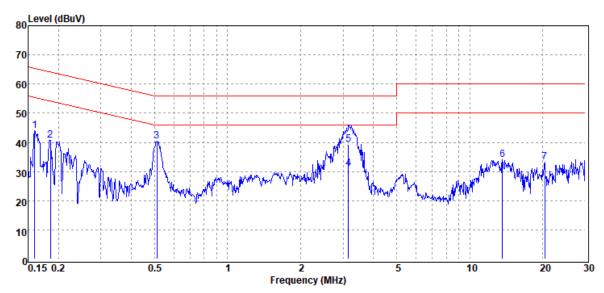
Note:

**Test Site** :Conduction 6F

**Test Date** :2021-01-12

Temp./Humi. :19.0/49

Engineer :Ricky



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.16	Peak	43.93	0.04	43.97	65.47	-21.50
0.19	Peak	40.59	0.04	40.63	64.24	-23.61
0.51	Peak	40.27	0.16	40.43	56.00	-15.57
3.16	Average	30.63	0.39	31.02	46.00	-14.98
3.16	QP	39.03	0.39	39.42	56.00	-16.58
13.62	Peak	33.19	0.98	34.17	60.00	-25.83
20.38	Peak	31.94	1.20	33.14	60.00	-26.86

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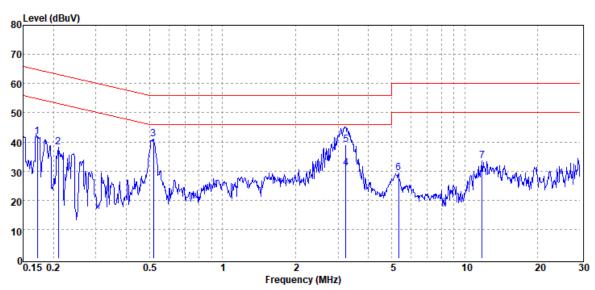
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Report Number **Test Site** :Conduction 6F :ER-2020-B0047

Test Mode :WLAN 5G **Test Date** :2021-01-12

:AC 120V/60Hz Power Temp./Humi. :19.0/49 Probe :N Engineer :Ricky

Note:



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.17	Peak	41.79	0.00	41.79	64.86	-23.07
0.21	Peak	38.17	0.00	38.17	63.23	-25.06
0.52	Peak	40.82	0.09	40.91	56.00	-15.09
3.22	Average	31.02	0.10	31.12	46.00	-14.88
3.22	QP	38.81	0.10	38.91	56.00	-17.09
5.33	Peak	29.35	0.10	29.45	60.00	-30.55
11.81	Peak	33.26	0.12	33.38	60.00	-26.62

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# **DUTY CYCLE TEST SIGNAL**

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.

#### 7.1 **Measurement Procedure:**

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

**Duty Cycle:** 

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11a	99.00	0.04	0.51	0.01
802.11n_20	100.00	0.00	0.00	0.01
802.11ac_20	100.00	0.00	0.00	0.01
802.11n_40	100.00	0.00	0.00	0.01
802.11ac_40	100.00	0.00	0.00	0.01
802.11ac_80	100.00	0.00	0.00	0.01
802.11ax_20	100.00	0.00	0.00	0.01
802.11ax_40	100.00	0.00	0.00	0.01
802.11ax_80	100.00	0.00	0.00	0.01

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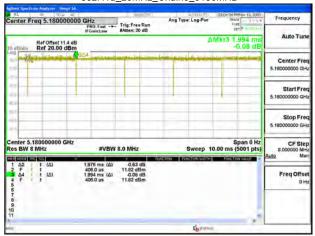
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# 7.2 DUTY CYCLE TEST SIGNAL MEAS-UREMENT RESULT

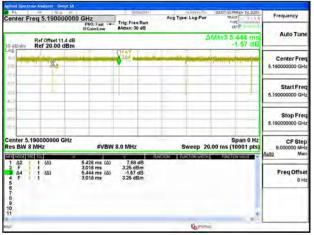
802.11a\_20MHz\_Chain0\_5180MHz



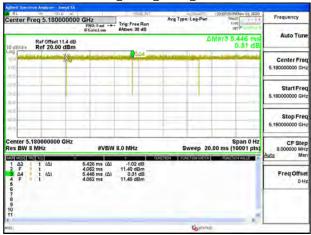
802.11n\_20MHz\_Chain0\_5180MHz



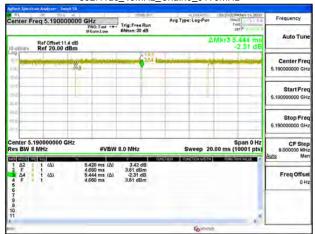
802.11n\_40MHz\_Chain0\_5190MHz



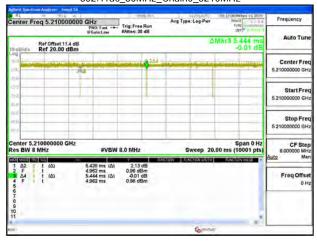
802.11ac\_20MHz\_Chain0\_5180MHz



802.11ac\_40MHz\_Chain0\_5190MHz



802.11ac\_80MHz\_Chain0\_5210MHz



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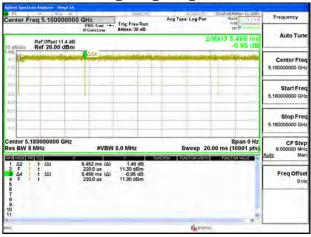
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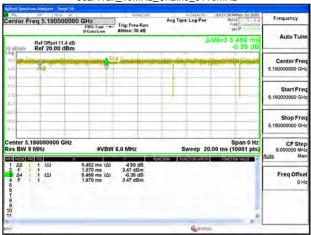


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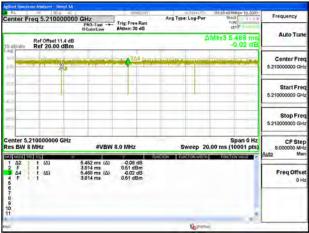
802.11ax\_20MHz\_Chain0\_5180MHz



802.11ax 40MHz Chain0 5190MHz



802.11ax 80MHz Chain0 5210MHz



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# 26DB, 99% &6DB EMISSION BANDWIDTH MEASUREMENT

#### Standard Applicable 8.1

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 **Measurement Procedure**

- 1. Place the EUT on the table and set it in transmitting mode.
- 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 = 30M/50MHz,

Detector=Peak,

Sweep=auto

- b. Mark the peak frequency and -6dB (upper and lower) frequency.
- For 99% Bandwidth: Set the spectrum analyzer as

RBW=1%,

VBW = 3\*RBW

Span = 30M/50MHz,

Detector=Sample,

Sweep=auto.

- 7. Turn on the 99% bandwidth function, max reading.
- 8. Repeat above procedures until all frequency of interest measured was complete.

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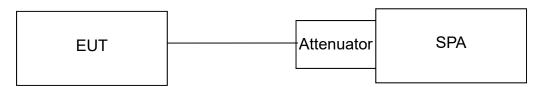


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### **Measurement Equipment Used** 8.3

SGS Conducted Room								
Name of Equip- ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due			
EXA Spectrum Ana- lyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021			
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021			
DC Power Supply	Agilent	E3640A	KR93300208	08/19/2020	08/18/2021			
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021			
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021			

#### 8.4 **Test Set-up**



#### 8.5 **Measurement Result**

#### 8.5.1 FCC 26dB Bandwidth

802.11a\_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.41	12.650
5220	18.41	12.650
5240	18.46	12.660
5260	18.44	12.660
5300	18.43	12.660
5320	18.23	12.610
5500	18.34	12.630
5580	18.46	12.660
5700	18.49	12.670
5720(U-NII 2C)	14.20	11.520
5720(U-NII 3)	4.20	6.230

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802.11n HT20 Ch0

802.11n HT20 Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.70	12.940	5180	19.52	12.900
5220	19.53	12.910	5220	19.67	12.940
5240	19.57	12.920	5240	19.83	12.970
5260	19.69	12.940	5260	19.60	12.920
5300	19.56	12.910	5300	19.65	12.930
5320	19.61	12.920	5320	19.62	12.930
5500	19.66	12.940	5500	19.59	12.920
5580	19.62	12.930	5580	19.70	12.940
5700	19.45	12.890	5700	19.79	12.960
5720(U-NII 2C)	14.88	11.720	5720(U-NII 2C)	14.77	11.700
5720(U-NII 3)	4.88	6.880	5720(U-NII 3)	4.77	6.790

# HT40 Ch0

# 802 11n HT40 Ch1

802.11n _HT40_Ch0			802.11n _HT40_Ch1		
Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.21	15.930	5190	39.26	15.940
5230	38.84	15.890	5230	39.06	15.920
5270	39.30	15.940	5270	38.93	15.900
5310	39.18	15.930	5310	38.70	15.880
5510	39.16	15.930	5510	38.76	15.880
5550	39.23	15.940	5550	39.23	15.940
5670	39.00	15.910	5670	38.55	15.860
5710(U-NII 2C)	34.65	15.400	5710(U-NII 2C)	34.33	15.360
5710(U-NII 3)	4.65	6.680	5710(U-NII 3)	4.33	6.360

# 802.11ac \_VHT80\_Ch0

# 802.11ac \_VHT80\_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.10	19.090	5210	80.34	19.050
5290	80.45	19.060	5290	80.45	19.060
5530	80.67	19.070	5530	80.38	19.050
5610	81.26	19.100	5610	80.22	19.040
5690(U-NII 2C)	75.48	18.780	5690(U-NII 2C)	75.36	18.770
5690(U-NII 3)	5.48	7.390	5690(U-NII 3)	5.36	7.290

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802.11ax\_20\_Ch0

802.11ax\_20\_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	20.33	13.080	5180	full	20.27	13.070
5220	full	20.22	13.060	5220	full	20.55	13.130
5240	full	20.30	13.070	5240	full	20.25	13.060
5260	full	20.24	13.060	5260	full	20.66	13.150
5300	full	20.57	13.130	5300	full	20.27	13.070
5320	full	20.41	13.100	5320	full	20.46	13.110
5500	full	20.48	13.110	5500	full	20.53	13.120
5580	full	20.48	13.110	5580	full	20.39	13.090
5700	full	20.46	13.110	5700	full	20.35	13.090
5720(U- NII 2C)	full	15.15	11.800	5720(U- NII 2C)	full	15.20	11.820
5720(U- NII 3)	full	5.15	7.110	5720(U- NII 3)	full	5.20	7.160

### 802.11ax 40 Ch0

### 802.11ax 40 Ch1

			***************************************					
Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)	
5190	full	40.17	16.040	5190	full	39.83	16.000	
5230	full	39.83	16.000	5230	full	39.79	16.000	
5270	full	39.82	16.000	5270	full	39.91	16.010	
5310	full	39.83	16.000	5310	full	39.97	16.020	
5510	full	39.96	16.020	5510	full	40.00	16.020	
5550	full	40.05	16.030	5550	full	39.80	16.000	
5670	full	40.03	16.020	5670	full	39.90	16.010	
5710(U- NII 2C)	full	35.10	15.450	5710(U- NII 2C)	full	34.87	15.420	
5710(U- NII 3)	full	5.10	7.080	5710(U- NII 3)	full	4.87	6.880	

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802.11ax 80 Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	81.68	19.120
5290	full	81.37	19.100
5530	full	81.35	19.100
5610	full	80.90	19.080
5690(U-NII 2C)	full	75.76	18.790
5690(U-NII 3)	full	5.76	7.600

802.11ax 80 Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	81.03	19.090
5290	full	81.00	19.080
5530	full	80.72	19.070
5610	full	81.01	19.090
5690(U-NII 2C)	full	75.40	18.770
5690(U-NII 3)	full	5.40	7.320

### 8.5.2 6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Peak detector for FCC

802.11a Ch0	80	2.	1	1	а	C	h	0
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Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.33	12.130
5785	16.34	12.130
5825	16.33	12.130

### 802.11n\_HT20\_Ch0

### 802.11n\_HT20\_Ch1

**=****			***************************************		
Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.58	12.450	5745	17.58	12.450
5785	17.54	12.440	5785	17.56	12.450
5825	16.92	12.280	5825	17.54	12.440

### 802.11n\_HT40\_Ch0

### 802.11n\_HT40\_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.45	15.500	5755	34.68	15.400
5795	34.44	15.370	5795	36.37	15.610

### 802.11ac \_VHT80\_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	73.85	18.680

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.12	18.760

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# 802.11ax\_20\_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	18.74	12.730
5785	full	18.11	12.580
5825	full	17.82	12.510

### 802.11ax 20 Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	17.37	12.400
5785	full	16.66	12.220
5825	full	18.99	12.790

### 802.11ax\_40\_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	36.47	15.620
5795	full	37.18	15.700

### 802.11ax\_40\_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	37.62	15.750
5795	full	37.15	15.700

# 802.11ax \_80\_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	76.42	18.830

### 802.11ax \_80\_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	75.74	18.790

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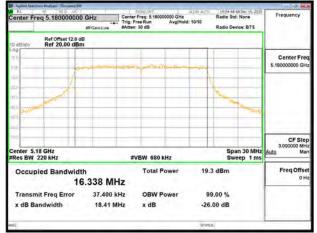
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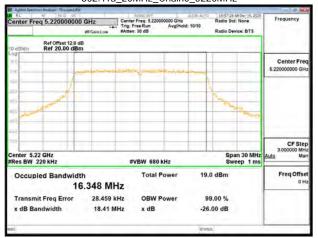


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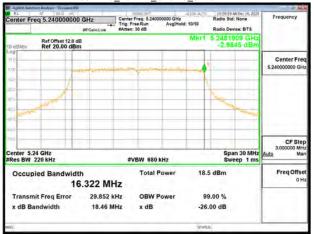
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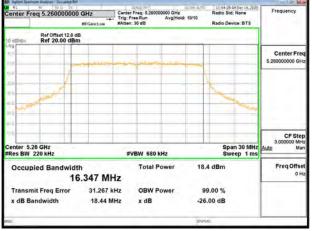
#### 802.11a 20MHz Chain0 5220MHz



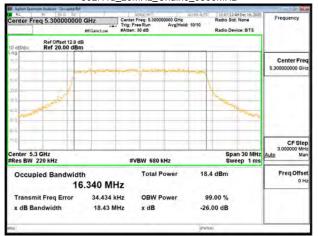
802.11a 20MHz Chain0 5240MHz



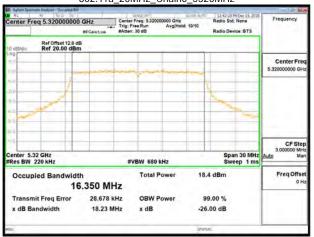
### 802.11a\_20MHz\_Chain0\_5260MHz



802.11a 20MHz Chain0 5300MHz



802.11a 20MHz Chain0 5320MHz



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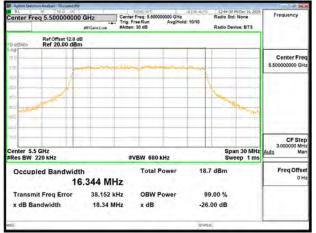
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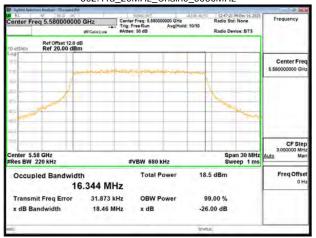


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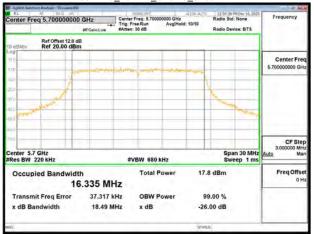
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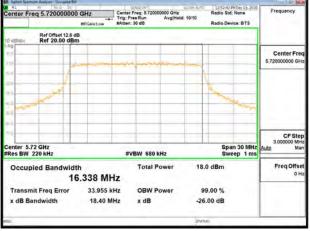
#### 802.11a 20MHz Chain0 5580MHz



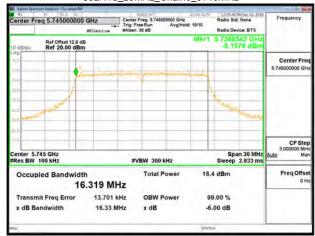
802.11a 20MHz Chain0 5700MHz



### 802.11a\_20MHz\_Chain0\_5720MHz



802.11a 20MHz Chain0 5745MHz



802.11a 20MHz Chain0 5785MHz



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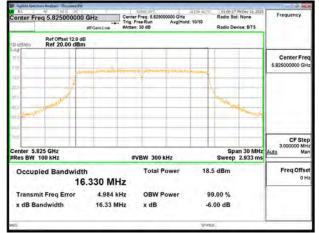
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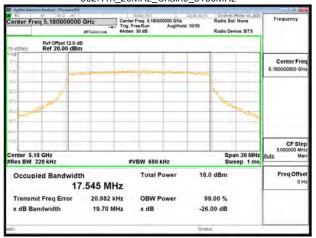


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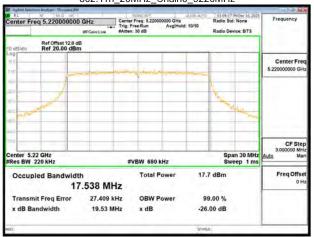
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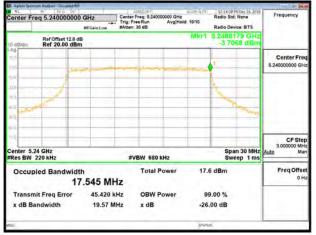
#### 802.11n 20MHz Chain0 5180MHz



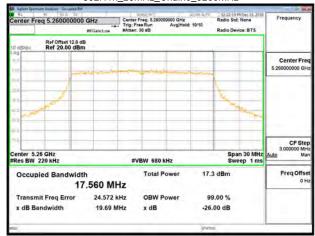
### 802.11n 20MHz Chain0 5220MHz



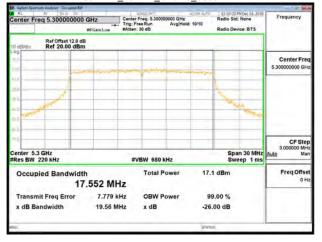
### 802.11n\_20MHz\_Chain0\_5240MHz



### 802.11n 20MHz Chain0 5260MHz



### 802.11n 20MHz Chain0 5300MHz



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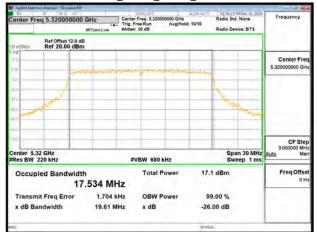
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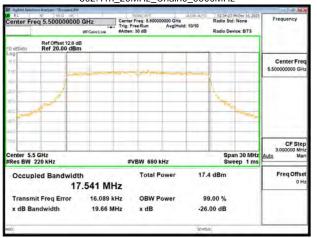


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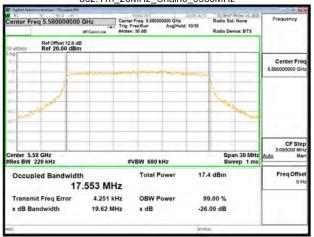
## 802.11n\_20MHz\_Chain0\_5320MHz



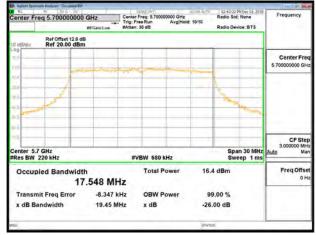
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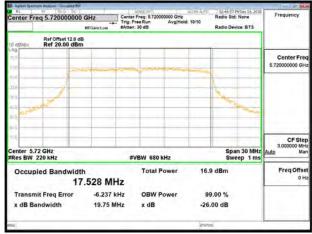
# 802.11n 20MHz Chain0 5580MHz



## 802.11n\_20MHz\_Chain0\_5700MHz



## 802.11n 20MHz Chain0 5720MHz



# 802.11n 20MHz Chain0 5745MHz



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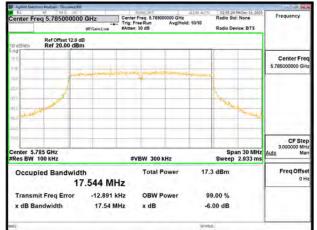
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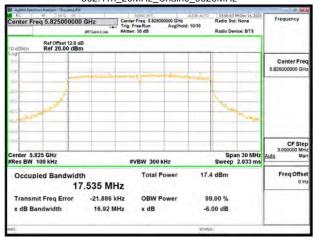


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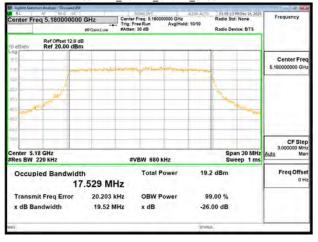
## 802.11n\_20MHz\_Chain0\_5785MHz



### 802.11n 20MHz Chain0 5825MHz



# 802.11n 20MHz Chain1 5180MHz



## 802.11n\_20MHz\_Chain1\_5220MHz



#### 802.11n 20MHz Chain1 5240MHz



# 802.11n 20MHz Chain1 5260MHz



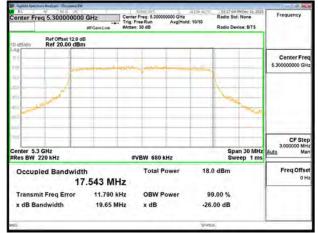
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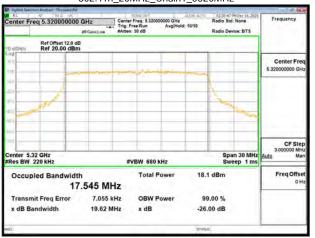


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## 802.11n\_20MHz\_Chain1\_5300MHz



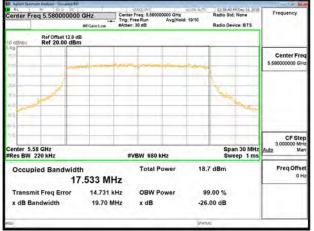
### 802.11n 20MHz Chain1 5320MHz



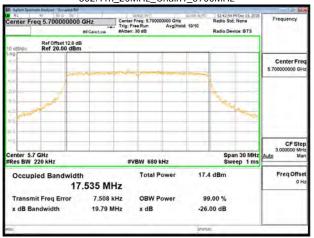
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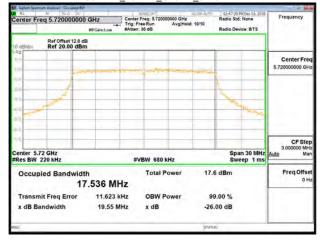
## 802.11n\_20MHz\_Chain1\_5580MHz



### 802.11n 20MHz Chain1 5700MHz



# 802.11n 20MHz Chain1 5720MHz



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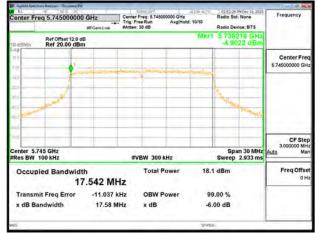
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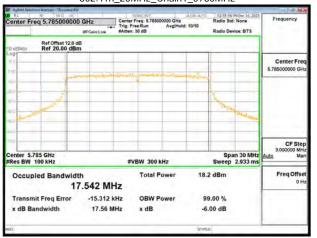


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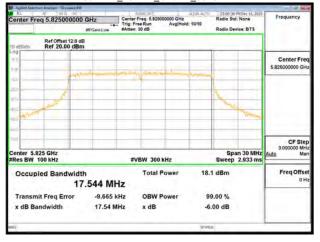
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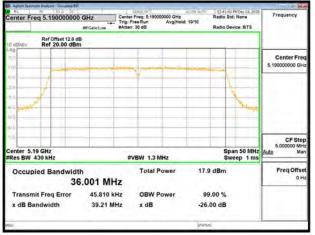
# 802.11n 20MHz Chain1 5785MHz



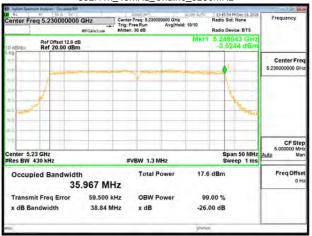
# 802.11n 20MHz Chain1 5825MHz



## 802.11n\_40MHz\_Chain0\_5190MHz



## 802.11n 40MHz Chain0 5230MHz



## 802.11n 40MHz Chain0 5270MHz



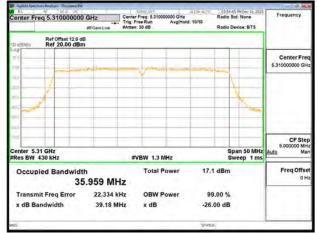
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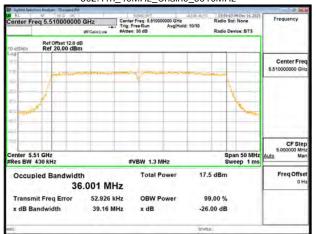


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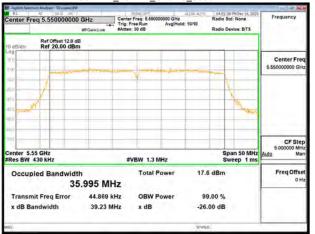
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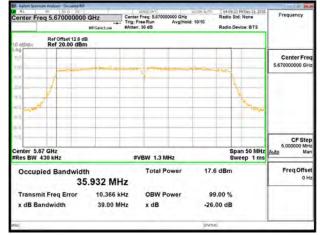
### 802.11n 40MHz Chain0 5510MHz



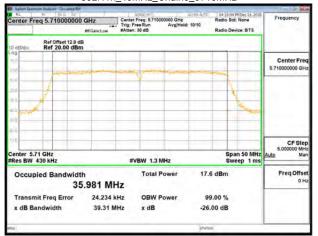
802.11n 40MHz Chain0 5550MHz



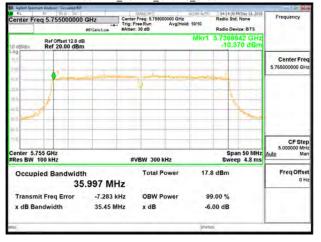
## 802.11n\_40MHz\_Chain0\_5670MHz



## 802.11n 40MHz Chain0 5710MHz



802.11n\_40MHz\_Chain0\_5755MHz



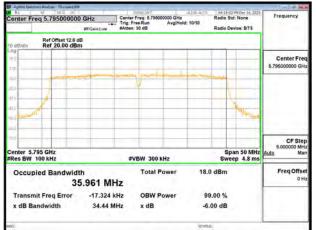
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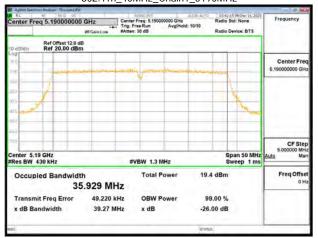


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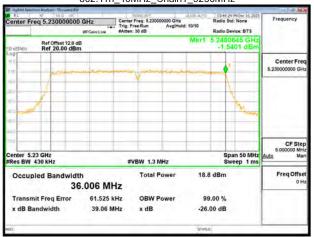
## 802.11n\_40MHz\_Chain0\_5795MHz



### 802.11n 40MHz Chain1 5190MHz



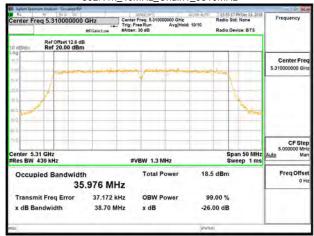
# 802.11n 40MHz Chain1 5230MHz



## 802.11n\_40MHz\_Chain1\_5270MHz



#### 802.11n 40MHz Chain1 5310MHz



## 802.11n 40MHz Chain1 5510MHz



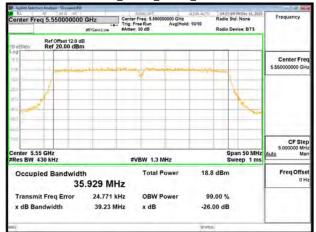
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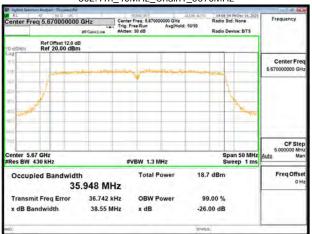


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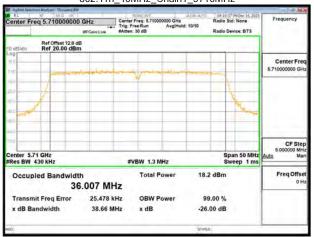
## 802.11n\_40MHz\_Chain1\_5550MHz



### 802.11n 40MHz Chain1 5670MHz



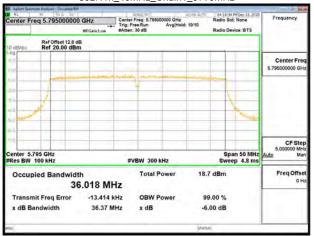
802.11n 40MHz Chain1 5710MHz



## 802.11n\_40MHz\_Chain1\_5755MHz



#### 802.11n 40MHz Chain1 5795MHz



802.11ac 80MHz Chain0 5210MHz



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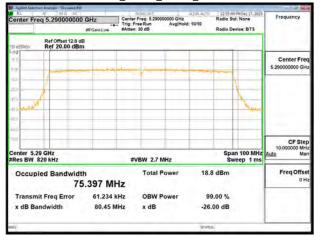
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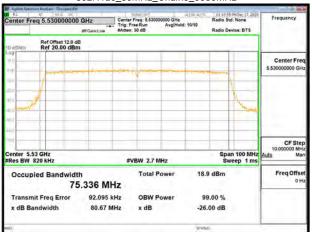


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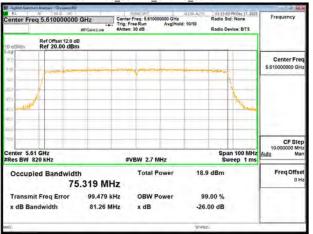
802.11ac\_80MHz\_Chain0\_5290MHz



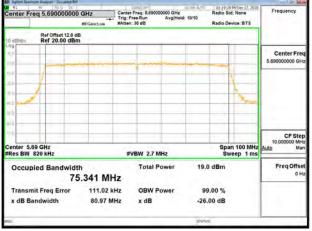
802.11ac 80MHz Chain0 5530MHz



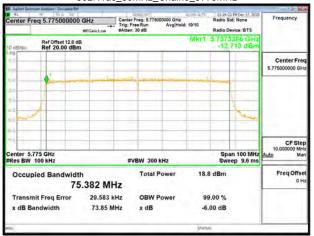
802.11ac 80MHz Chain0 5610MHz



802.11ac\_80MHz\_Chain0\_5690MHz



802.11ac 80MHz Chain0 5775MHz



802.11ac 80MHz Chain1 5210MHz



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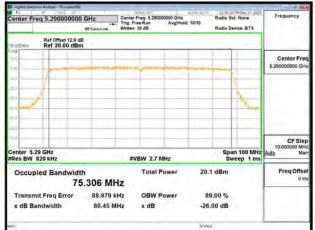
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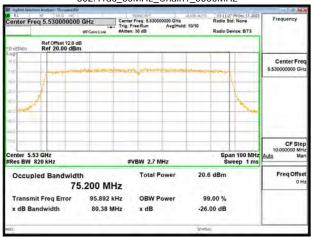


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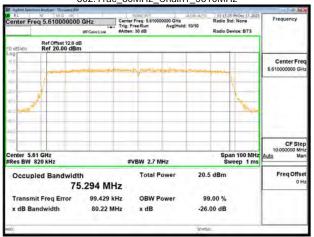
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802.11ac 80MHz Chain1 5530MHz



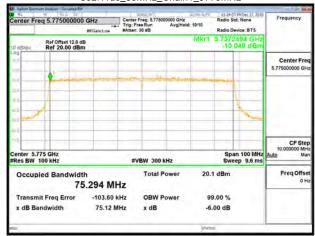
802.11ac 80MHz Chain1 5610MHz



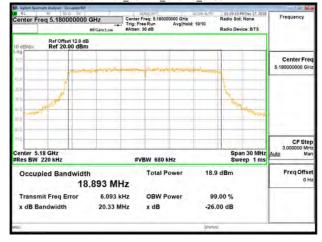
802.11ac\_80MHz\_Chain1\_5690MHz



802.11ac 80MHz Chain1 5775MHz



802.11ax 20MHz Chain0 5180MHz



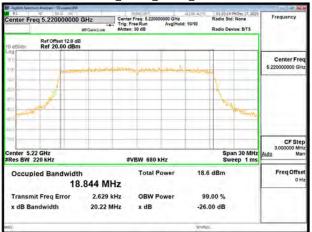
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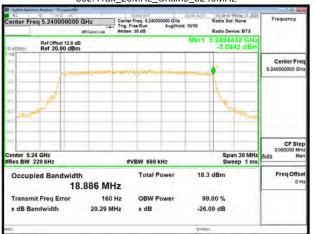


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## 802.11ax\_20MHz\_Chain0\_5220MHz



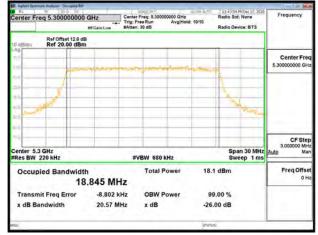
802.11ax 20MHz Chain0 5240MHz



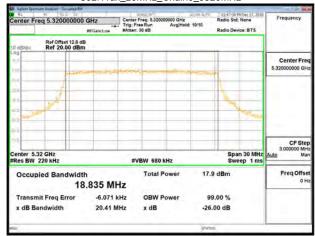
802.11ax 20MHz Chain0 5260MHz



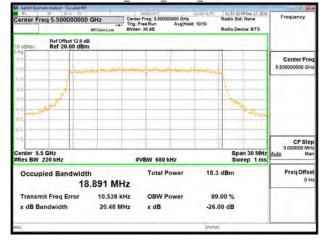
802.11ax\_20MHz\_Chain0\_5300MHz



802.11ax 20MHz Chain0 5320MHz



802.11ax 20MHz Chain0 5500MHz



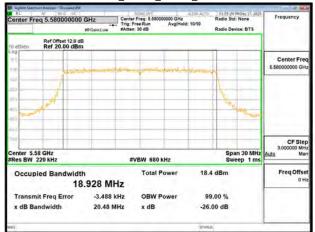
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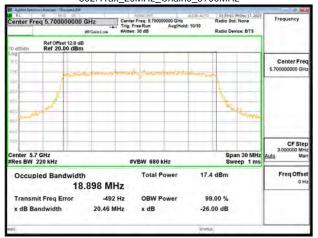


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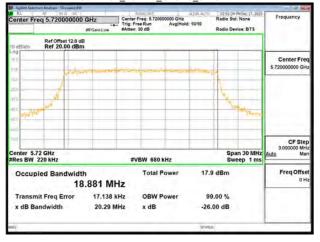
## 802.11ax\_20MHz\_Chain0\_5580MHz



# 802.11ax 20MHz Chain0 5700MHz



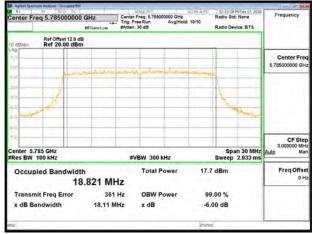
802.11ax 20MHz Chain0 5720MHz



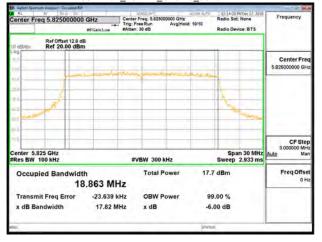
# 802.11ax\_20MHz\_Chain0\_5745MHz



802.11ax 20MHz Chain0 5785MHz



802.11ax 20MHz Chain0 5825MHz



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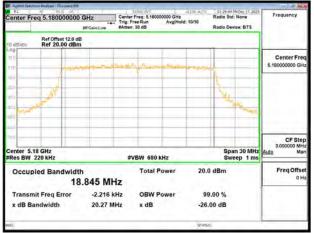
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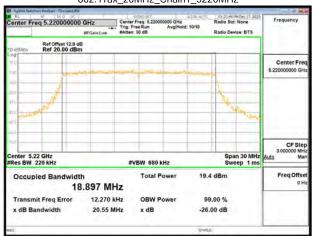


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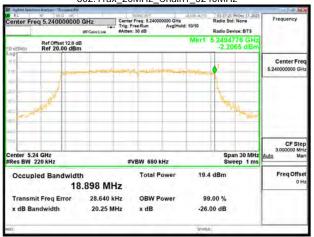
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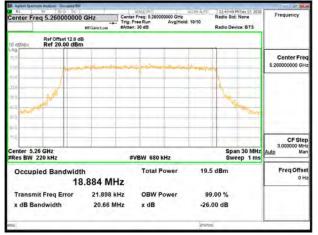
### 802.11ax 20MHz Chain1 5220MHz



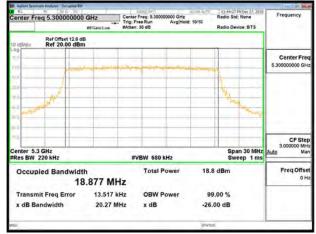
802.11ax 20MHz Chain1 5240MHz



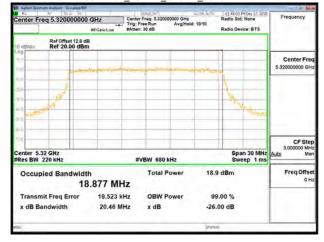
## 802.11ax\_20MHz\_Chain1\_5260MHz



802.11ax 20MHz Chain1 5300MHz



802.11ax 20MHz Chain1 5320MHz



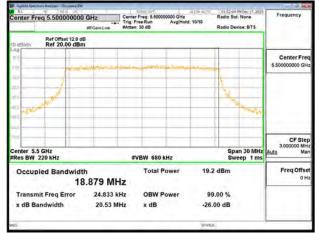
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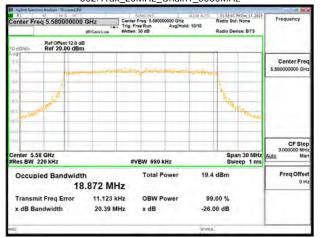


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## 802.11ax\_20MHz\_Chain1\_5500MHz



### 802.11ax 20MHz Chain1 5580MHz



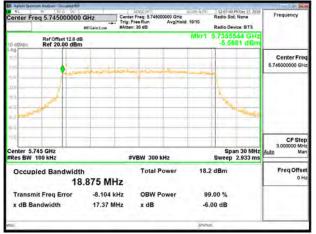
802.11ax 20MHz Chain1 5700MHz



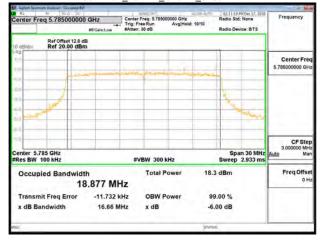
# 802.11ax\_20MHz\_Chain1\_5720MHz



802.11ax 20MHz Chain1 5745MHz



802.11ax 20MHz Chain1 5785MHz



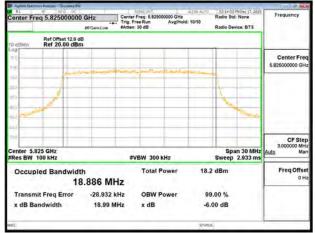
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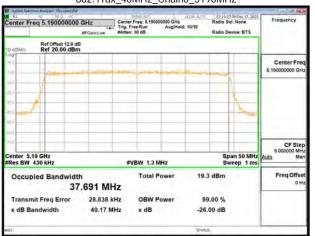


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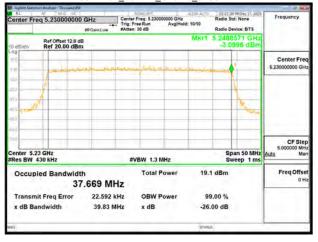
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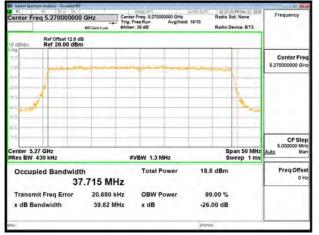
## 802.11ax 40MHz Chain0 5190MHz



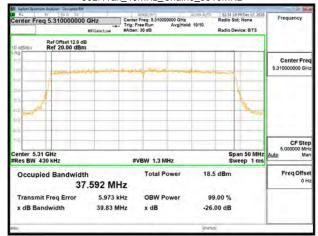
802.11ax 40MHz Chain0 5230MHz



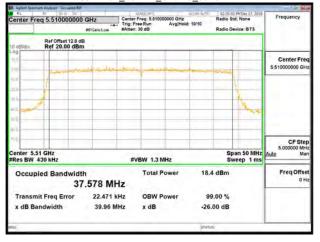
## 802.11ax\_40MHz\_Chain0\_5270MHz



802.11ax 40MHz Chain0 5310MHz



802.11ax 40MHz Chain0 5510MHz



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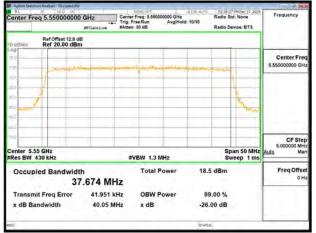
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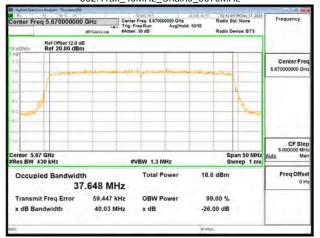


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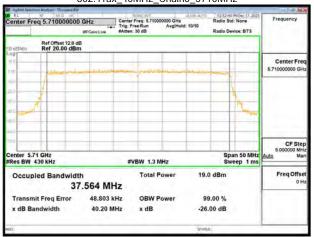
## 802.11ax\_40MHz\_Chain0\_5550MHz



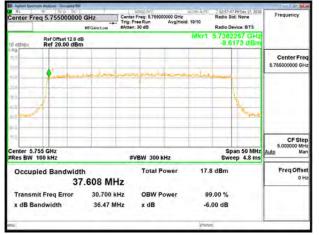
### 802.11ax 40MHz Chain0 5670MHz



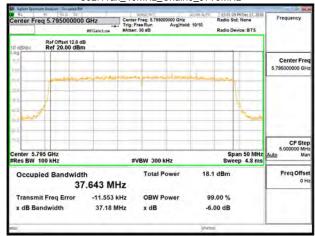
802.11ax 40MHz Chain0 5710MHz



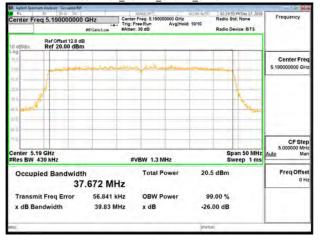
802.11ax\_40MHz\_Chain0\_5755MHz



802.11ax 40MHz Chain0 5795MHz



802.11ax 40MHz Chain1 5190MHz



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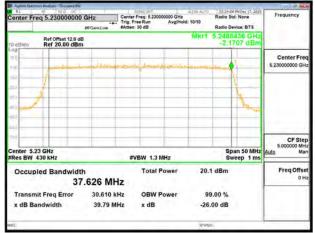
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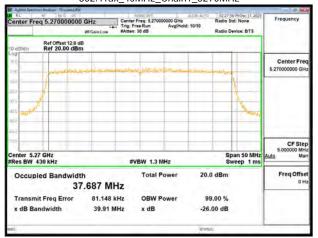


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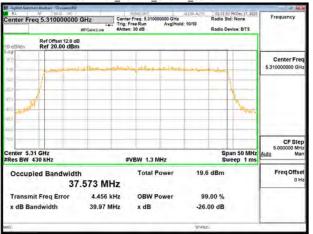
# 802.11ax\_40MHz\_Chain1\_5230MHz



### 802.11ax 40MHz Chain1 5270MHz



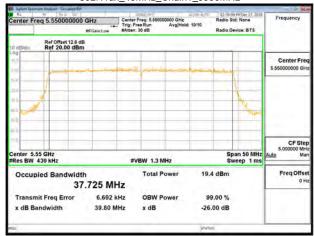
802.11ax 40MHz Chain1 5310MHz



# 802.11ax\_40MHz\_Chain1\_5510MHz



802.11ax 40MHz Chain1 5550MHz



802.11ax 40MHz Chain1 5670MHz



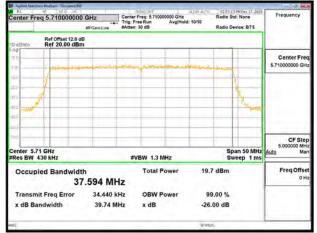
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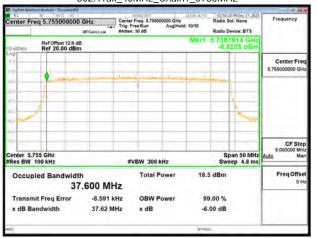


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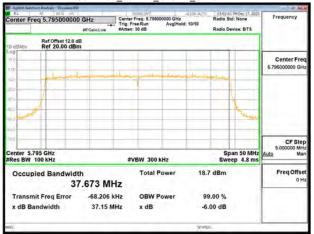
## 802.11ax\_40MHz\_Chain1\_5710MHz



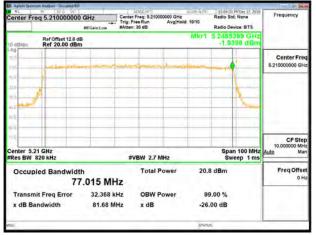
### 802.11ax 40MHz Chain1 5755MHz



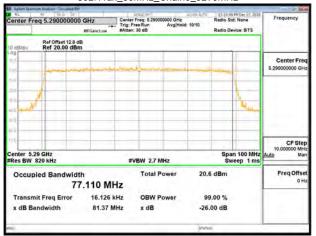
802.11ax 40MHz Chain1 5795MHz



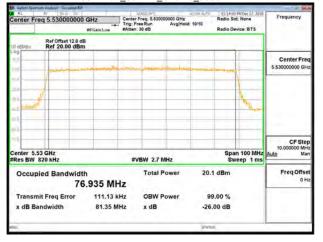
802.11ax\_80MHz\_Chain0\_5210MHz



802.11ax 80MHz Chain0 5290MHz



802.11ax 80MHz Chain0 5530MHz



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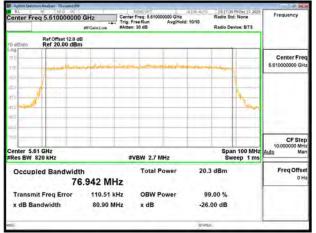
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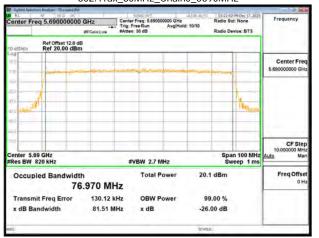


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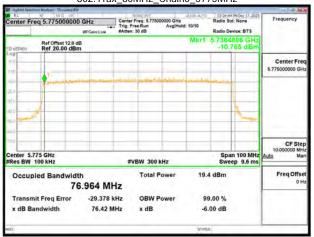
## 802.11ax\_80MHz\_Chain0\_5610MHz



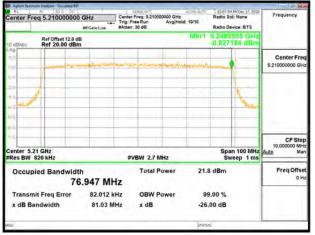
### 802.11ax 80MHz Chain0 5690MHz



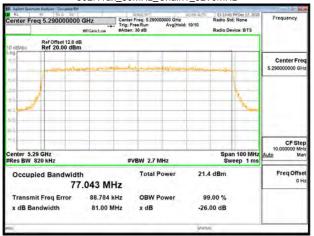
802.11ax 80MHz Chain0 5775MHz



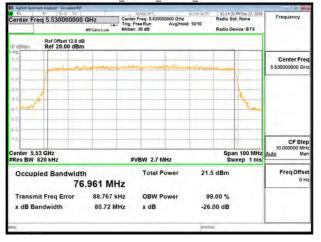
802.11ax\_80MHz\_Chain1\_5210MHz



802.11ax 80MHz Chain1 5290MHz



802.11ax 80MHz Chain1 5530MHz



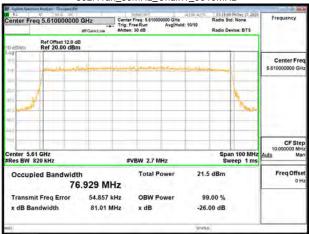
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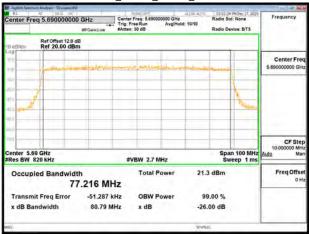


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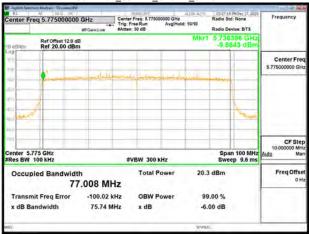
# 802.11ax\_80MHz\_Chain1\_5610MHz



#### 802.11ax 80MHz Chain1 5690MHz



# 802.11ax 80MHz Chain1 5775MHz



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### 8.5.3 ISED 99% Bandwidth

802.11a\_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.346	12.130
5220	16.339	12.130
5240	16.335	12.130
5260	16.340	12.130
5300	16.336	12.130
5320	16.331	12.130
5500	16.332	12.130
5580	16.327	12.130
5700	16.324	12.130
5720	16.323	12.130

# 802.11n HT20 Ch0

# 802.11n\_HT20\_Ch1

- '- '						
Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	
5180	17.541	12.440	5180	17.540	12.440	
5220	17.532	12.440	5220	17.525	12.440	
5240	17.529	12.440	5240	17.526	12.440	
5260	17.555	12.440	5260	17.540	12.440	
5300	17.558	12.440	5300	17.535	12.440	
5320	17.546	12.440	5320	17.533	12.440	
5500	17.544	12.440	5500	17.535	12.440	
5580	17.551	12.440	5580	17.518	12.430	
5700	17.541	12.440	5700	17.552	12.440	
5720	17.523	12.440	5720	17.521	12.440	

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# 802.11n HT40 Ch0

# 802.11n \_HT40\_Ch1

002.1111 _11140_0110		
Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	35.990	15.560
5230	35.970	15.560
5270	35.990	15.560
5310	35.966	15.560
5510	35.971	15.560
5550	36.003	15.560
5670	35.946	15.560
5710	35.999	15.560

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.017	15.570
5230	35.998	15.560
5270	35.982	15.560
5310	35.996	15.560
5510	35.958	15.560
5550	35.949	15.560
5670	35.957	15.560
5710	36.004	15.560

# 802.11ac \_VHT80\_Ch0

802.11ac VHT80 Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.307	18.770
5290	75.425	18.780
5530	75.340	18.770
5610	75.316	18.770
5690	75.400	18.770

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.402	18.770
5290	75.355	18.770
5530	75.404	18.770
5610	75.388	18.770
5690	75.361	18.770

# 802.11ax 20 Ch0

# 802.11ax 20 Ch1

302. I Tax_20_CITO							
Frequency (MHz)	RU config	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	RU config	99% BW (MHz)	10 Log (B) (dB)
5180	full	18.879	12.760	5180	full	18.878	12.760
5220	full	18.854	12.750	5220	full	18.856	12.750
5240	full	18.876	12.760	5240	full	18.881	12.760
5260	full	18.853	12.750	5260	full	18.897	12.760
5300	full	18.903	12.770	5300	full	18.883	12.760
5320	full	18.875	12.760	5320	full	18.857	12.750
5500	full	18.865	12.760	5500	full	18.874	12.760
5580	full	18.871	12.760	5580	full	18.893	12.760
5700	full	18.891	12.760	5700	full	18.884	12.760
5720	full	18.875	12.760	5720	full	18.883	12.760
				•	-		

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802.11ax \_40\_Ch0

802.11ax 40 Ch1

Frequency (MHz)	RU config	99% BW (MHz)	10 Log (B) (dB)
5190	full	37.607	15.750
5230	full	37.623	15.750
5270	full	37.600	15.750
5310	full	37.689	15.760
5510	full	37.632	15.760
5550	full	37.568	15.750
5670	full	37.609	15.750
5710	full	37.643	15.760

Frequency (MHz)	RU config	99% BW (MHz)	10 Log (B) (dB)	
5190	full	37.603	15.750	
5230	full	37.594	15.750	
5270	full	37.596	15.750	
5310	full	37.648	15.760	
5510	full	37.659	15.760	
5550	full	37.726	15.770	
5670	full	37.674	15.760	
5710	full	37.703	15.760	

802.11ax \_80\_Ch0

802.11ax 80 Ch1

Frequency (MHz)	RU config	99% BW (MHz)	10 Log (B) (dB)
5210	full	77.151	18.870
5290	full	77.112	18.870
5530	full	77.147	18.870
5610	full	76.955	18.860
5690	full	77.055	18.870

Frequency (MHz)	RU config	99% BW (MHz)	10 Log (B) (dB)	
5210	full	76.975	18.860	
5290	full	77.031	18.870	
5530	full	77.200	18.880	
5610	full	76.898	18.860	
5690	full	77.199	18.880	

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# 8.5.4 6dB Bandwidth (5725 MHz~ 5850 MHz) measure with sample detector for ISED

802.11a\_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.250	12.110
5785	16.370	12.140
5825	16.310	12.120

802.11n\_HT20\_Ch0

802.	111	n H	T20	Ch1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.530	12.440
5785	17.450	12.420
5825	17.560	12.450

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.450	12.420
5785	17.410	12.410
5825	17.480	12.430

802.11n \_HT40\_Ch0

802.11n	HT40 Ch1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.160	15.580
5795	36.170	15.580

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.170	15.580
5795	36.140	15.580

802.11ac \_VHT80\_Ch0

802.11ac \_VHT80\_Ch1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.950	18.810

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.720	18.790

802.11ax\_20\_Ch0

802.11ax\_20\_Ch1

Frequency (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	18.790	12.740
5785	full	18.750	12.730
5825	full	18.780	12.740

	Frequency (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
	5745	full	18.810	12.740
	5785	full	18.880	12.760
ĺ	5825	full	18.950	12.780

802.11ax \_40\_Ch0

802.11ax \_40\_Ch1

Frequency (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	37.660	15.760
5795	full	37.780	15.770

Frequency (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	37.750	15.770
5795	full	37.460	15.740

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# 802.11ax \_80\_Ch0

Frequency (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	76.430	18.830

# 802.11ax \_80\_Ch1

Frequency (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	77.170	18.870

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# 8.5.1 BW Verification for DFS Function

# 802.11a\_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.19	< 5250
5745	5736.85	> 5725

# 802.11n\_HT20\_Ch0

# 802.11n HT20 Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Fı (N
5240	5248.82	< 5250	5
5745	5736.21	> 5725	5

# 802.11n HT40 Ch0

Freq. (MHz)	Freq. (MHz)	Limit (MHz)
5240	5248.80	< 5250
5745	5736.22	> 5725

Measured

## 802.11n HT40 Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.43	< 5250
5755	5736.99	> 5725

# 802.11ac \_VHT80\_Ch0

	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
ĺ	5230	5248.06	< 5250
	5755	5736.99	> 5725

802.11ac \_VHT80\_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.72	< 5250
5775	5737.34	> 5725

802.11ax 20 Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.70	< 5250
5775	5737.25	> 5725

# 802.11ax\_20\_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	
5240	5249.44	< 5250	
5745	5735.58	> 5725	

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.48	< 5250
5745	5735.55	> 5725

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802.11ax \_40\_Ch0

802.11a	k _40_Ch1
Freq.	Measure
Fieq.	Fred

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.86	< 5250
5755	5736.23	> 5725

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.84	< 5250
5755	5736.19	> 5725

# 802.11ax \_VHT80\_Ch0

802.11ax	VHTSO	Ch1
0UZ. I IAX	VILIOU	UIII

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.54	< 5250
5775	5736.49	> 5725

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.56	< 5250
5775	5736.40	> 5725

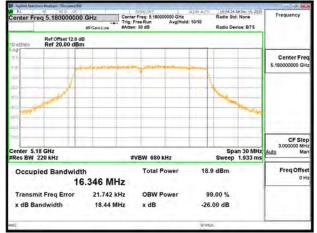
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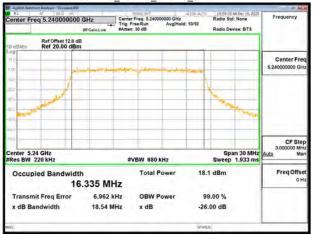
## 802.11a\_20MHz\_Chain0\_5180MHz



### 802.11a 20MHz Chain0 5220MHz



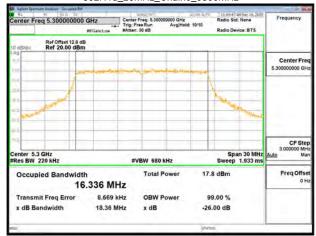
802.11a 20MHz Chain0 5240MHz



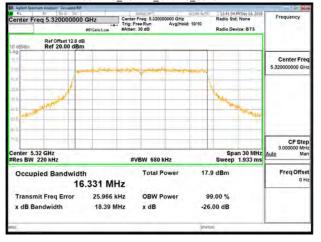
## 802.11a\_20MHz\_Chain0\_5260MHz



## 802.11a 20MHz Chain0 5300MHz



802.11a 20MHz Chain0 5320MHz



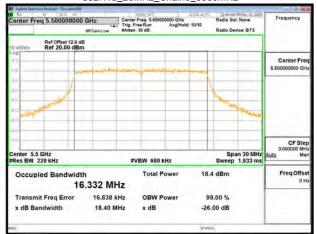
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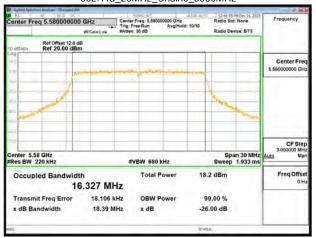


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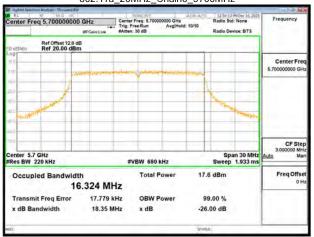
## 802.11a\_20MHz\_Chain0\_5500MHz



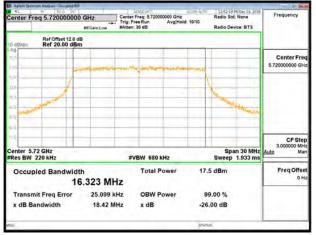
### 802.11a 20MHz Chain0 5580MHz



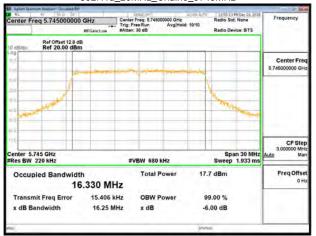
# 802.11a 20MHz Chain0 5700MHz



## 802.11a\_20MHz\_Chain0\_5720MHz



## 802.11a 20MHz Chain0 5745MHz



# 802.11a 20MHz Chain0 5785MHz



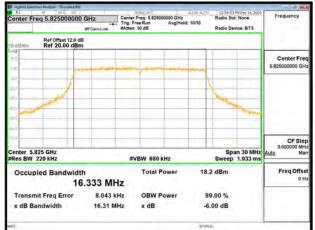
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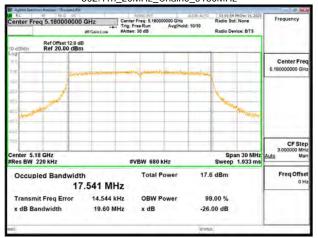


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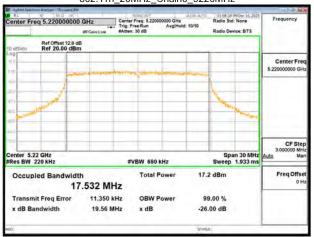
## 802.11a\_20MHz\_Chain0\_5825MHz



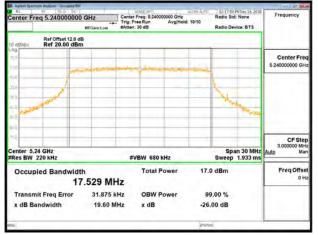
### 802.11n 20MHz Chain0 5180MHz



802.11n 20MHz Chain0 5220MHz



## 802.11n\_20MHz\_Chain0\_5240MHz



802.11n 20MHz Chain0 5260MHz



802.11n 20MHz Chain0 5300MHz



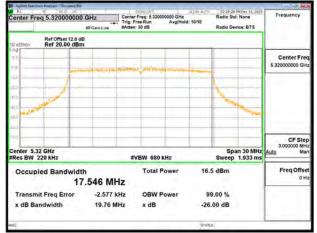
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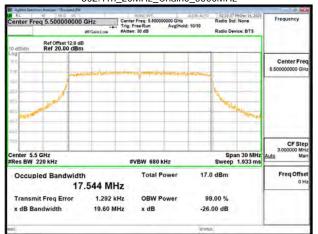


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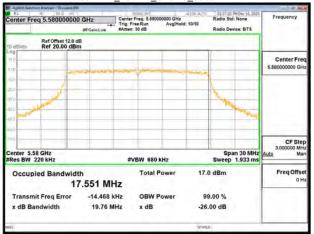
## 802.11n\_20MHz\_Chain0\_5320MHz



### 802.11n 20MHz Chain0 5500MHz



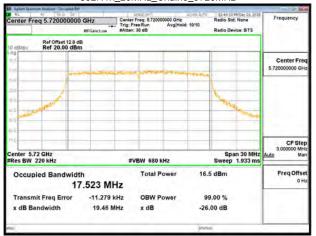
802.11n 20MHz Chain0 5580MHz



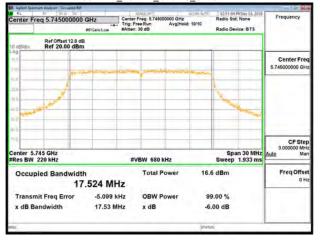
## 802.11n\_20MHz\_Chain0\_5700MHz



802.11n 20MHz Chain0 5720MHz



802.11n 20MHz Chain0 5745MHz



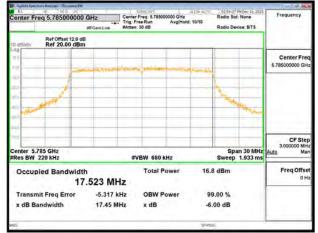
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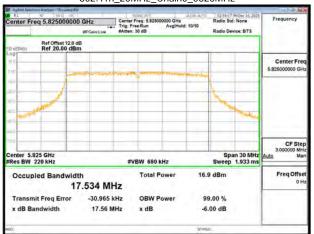


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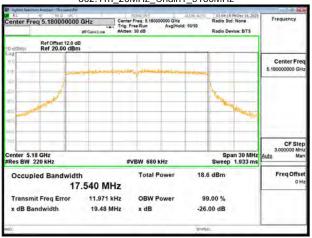
## 802.11n\_20MHz\_Chain0\_5785MHz



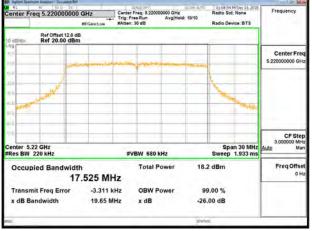
### 802.11n 20MHz Chain0 5825MHz



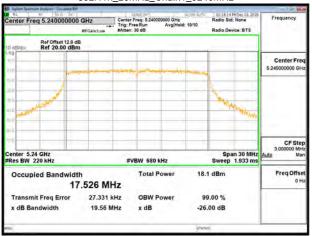
802.11n 20MHz Chain1 5180MHz



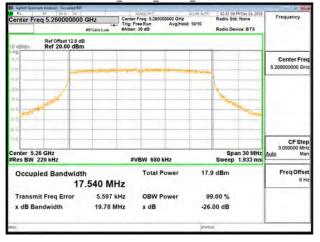
## 802.11n\_20MHz\_Chain1\_5220MHz



802.11n 20MHz Chain1 5240MHz



802.11n 20MHz Chain1 5260MHz



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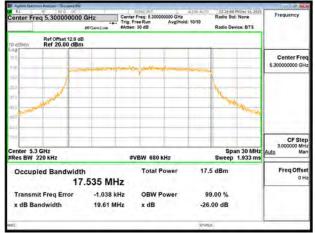
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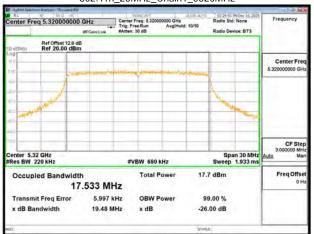


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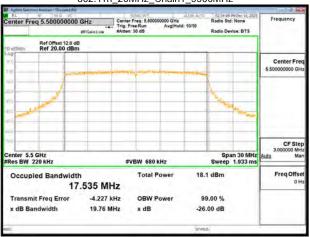
## 802.11n\_20MHz\_Chain1\_5300MHz



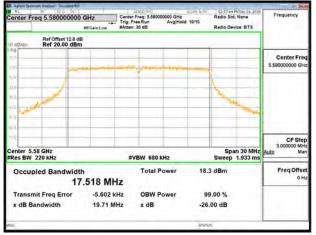
### 802.11n 20MHz Chain1 5320MHz



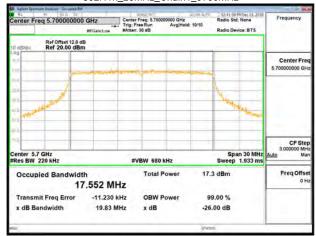
# 802.11n 20MHz Chain1 5500MHz



## 802.11n\_20MHz\_Chain1\_5580MHz



#### 802.11n 20MHz Chain1 5700MHz



# 802.11n 20MHz Chain1 5720MHz



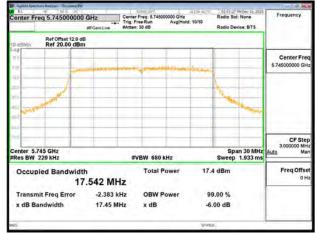
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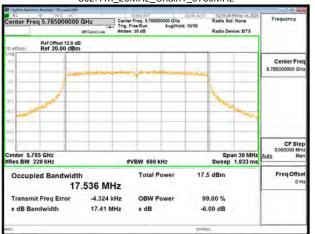


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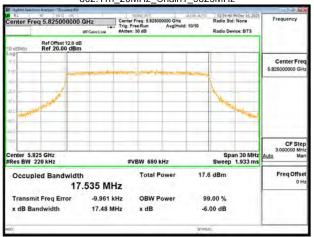
## 802.11n\_20MHz\_Chain1\_5745MHz



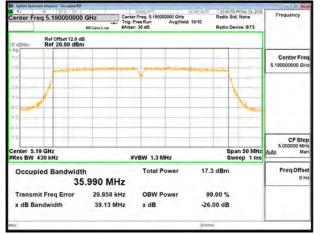
### 802.11n 20MHz Chain1 5785MHz



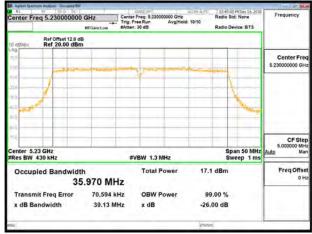
# 802.11n 20MHz Chain1 5825MHz



## 802.11n\_40MHz\_Chain0\_5190MHz



## 802.11n 40MHz Chain0 5230MHz



## 802.11n 40MHz Chain0 5270MHz



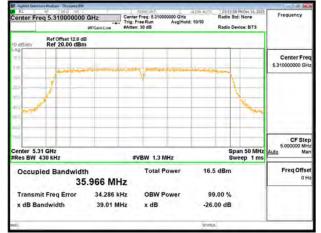
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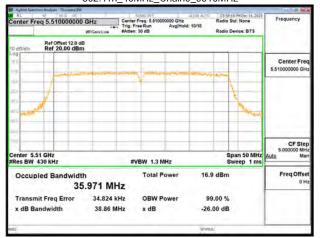


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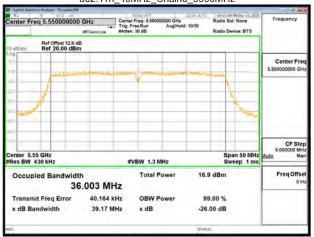
## 802.11n\_40MHz\_Chain0\_5310MHz



### 802.11n 40MHz Chain0 5510MHz



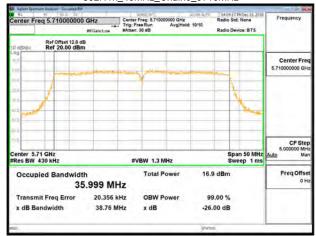
802.11n 40MHz Chain0 5550MHz



## 802.11n\_40MHz\_Chain0\_5670MHz



802.11n 40MHz Chain0 5710MHz



802.11n 40MHz Chain0 5755MHz



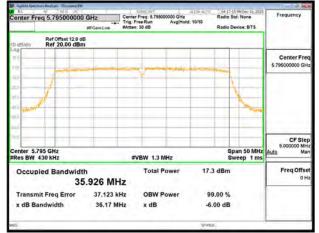
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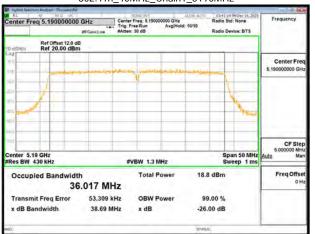


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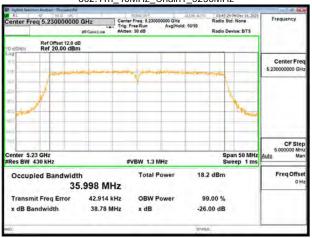
## 802.11n\_40MHz\_Chain0\_5795MHz



### 802.11n 40MHz Chain1 5190MHz



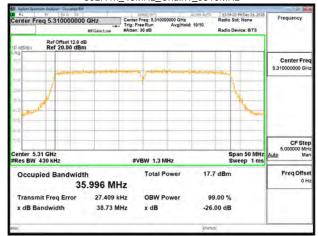
# 802.11n 40MHz Chain1 5230MHz



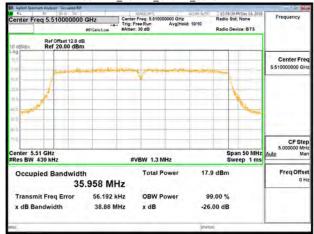
## 802.11n\_40MHz\_Chain1\_5270MHz



#### 802.11n 40MHz Chain1 5310MHz



## 802.11n 40MHz Chain1 5510MHz



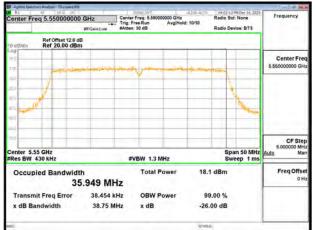
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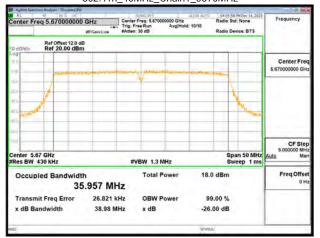


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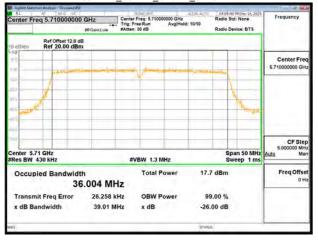
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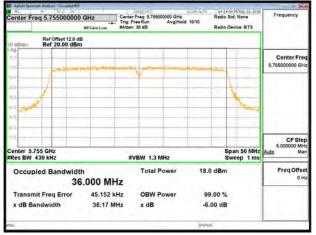
### 802.11n 40MHz Chain1 5670MHz



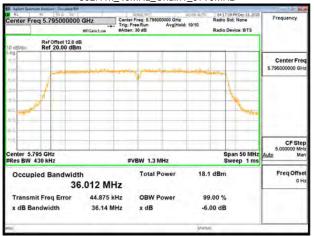
802.11n 40MHz Chain1 5710MHz



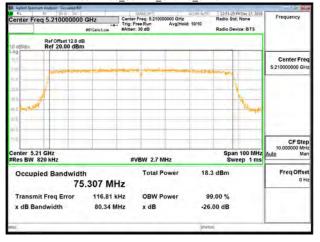
## 802.11n\_40MHz\_Chain1\_5755MHz



802.11n 40MHz Chain1 5795MHz



802.11ac 80MHz Chain0 5210MHz



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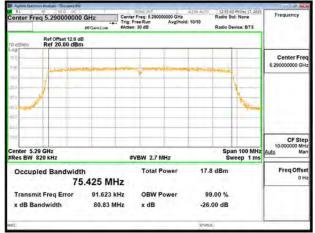
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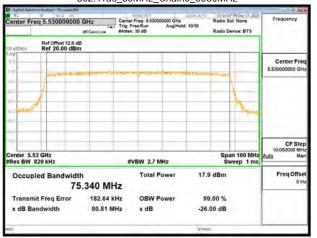


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### 802.11ac\_80MHz\_Chain0\_5290MHz



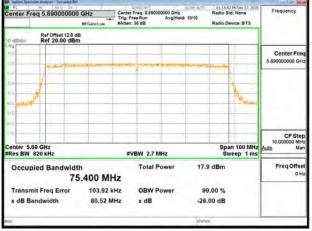
#### 802.11ac 80MHz Chain0 5530MHz



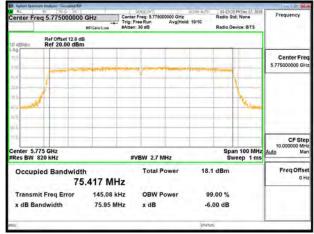
802.11ac 80MHz Chain0 5610MHz



802.11ac\_80MHz\_Chain0\_5690MHz



802.11ac 80MHz Chain0 5775MHz



802.11ac 80MHz Chain1 5210MHz



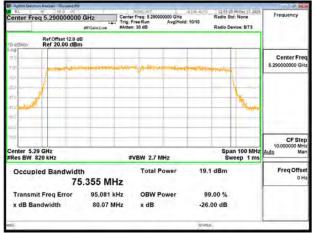
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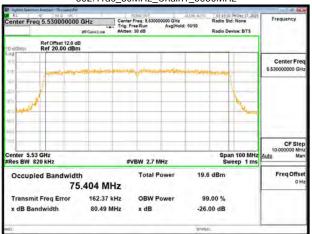


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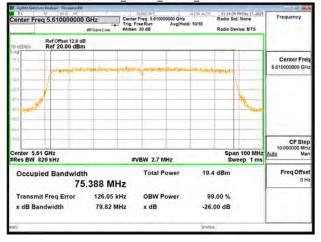
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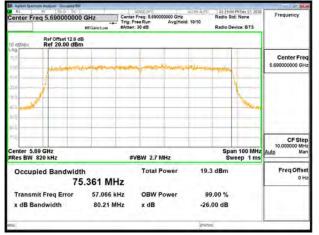
802.11ac 80MHz Chain1 5530MHz



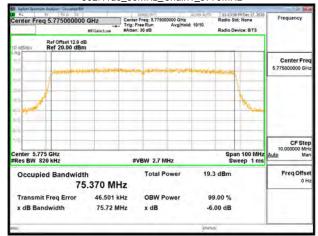
802.11ac 80MHz Chain1 5610MHz



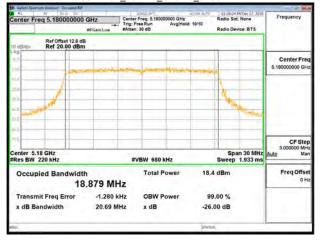
802.11ac\_80MHz\_Chain1\_5690MHz



802.11ac 80MHz Chain1 5775MHz



802.11ax 20MHz Chain0 5180MHz



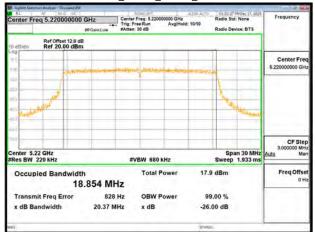
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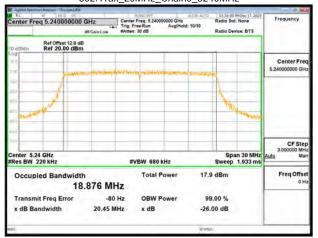


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### 802.11ax\_20MHz\_Chain0\_5220MHz



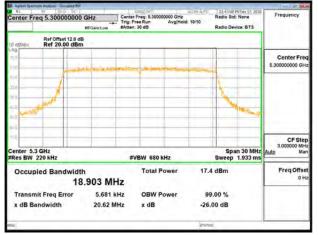
## 802.11ax 20MHz Chain0 5240MHz



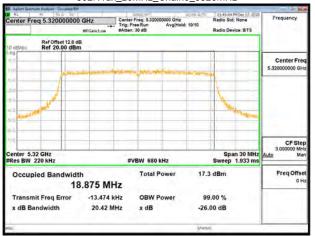
802.11ax 20MHz Chain0 5260MHz



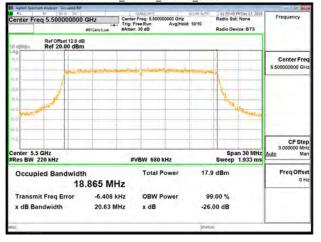
### 802.11ax\_20MHz\_Chain0\_5300MHz



802.11ax 20MHz Chain0 5320MHz



802.11ax 20MHz Chain0 5500MHz



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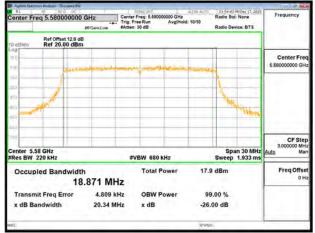
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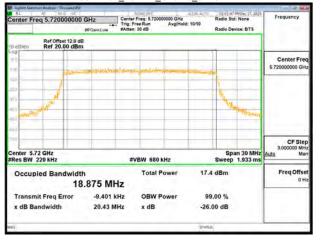
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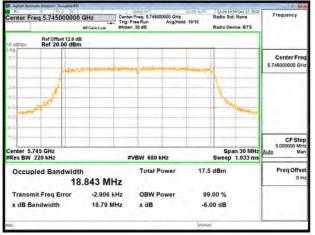
## 802.11ax 20MHz Chain0 5700MHz



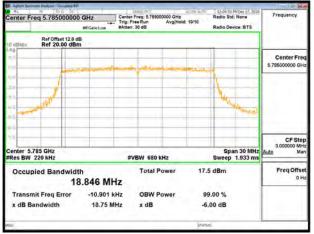
802.11ax 20MHz Chain0 5720MHz



### 802.11ax\_20MHz\_Chain0\_5745MHz



802.11ax 20MHz Chain0 5785MHz



802.11ax 20MHz Chain0 5825MHz



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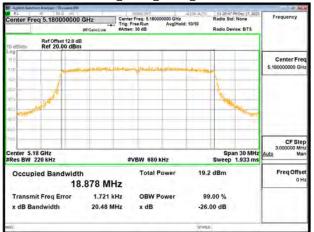
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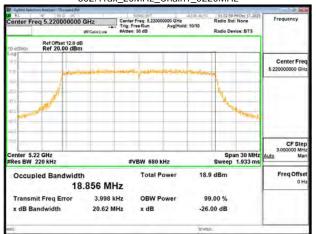


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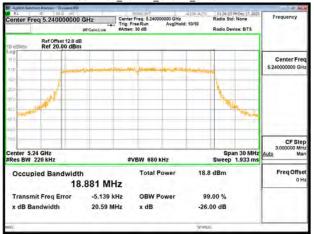
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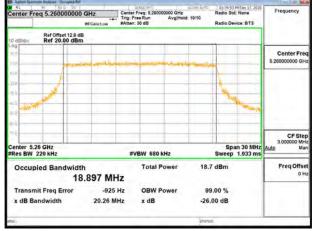
#### 802.11ax 20MHz Chain1 5220MHz



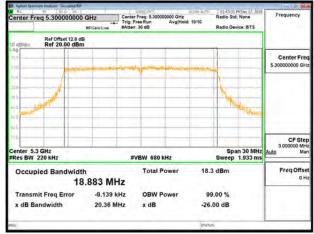
802.11ax 20MHz Chain1 5240MHz



### 802.11ax\_20MHz\_Chain1\_5260MHz



802.11ax 20MHz Chain1 5300MHz



802.11ax 20MHz Chain1 5320MHz



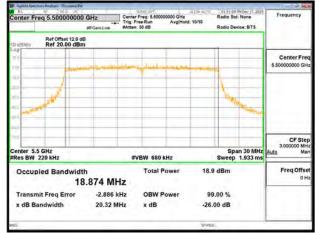
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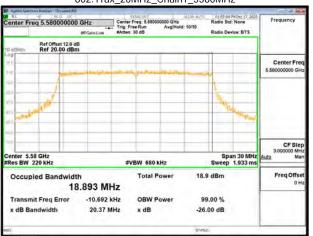


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### 802.11ax\_20MHz\_Chain1\_5500MHz



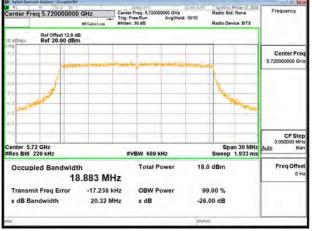
#### 802.11ax 20MHz Chain1 5580MHz



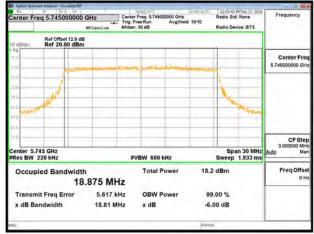
802.11ax 20MHz Chain1 5700MHz



### 802.11ax\_20MHz\_Chain1\_5720MHz



802.11ax 20MHz Chain1 5745MHz



802.11ax 20MHz Chain1 5785MHz



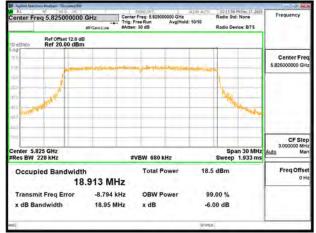
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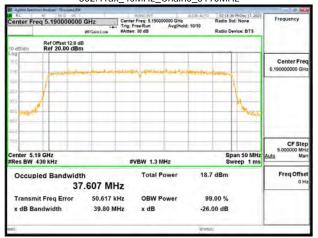


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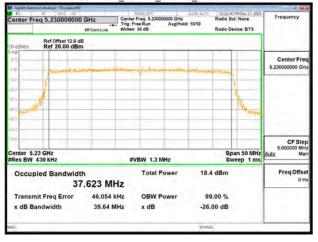
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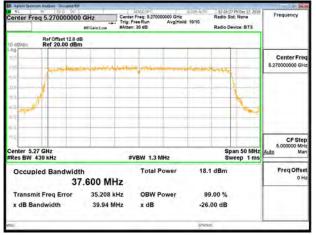
## 802.11ax 40MHz Chain0 5190MHz



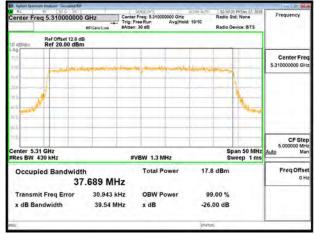
802.11ax 40MHz Chain0 5230MHz



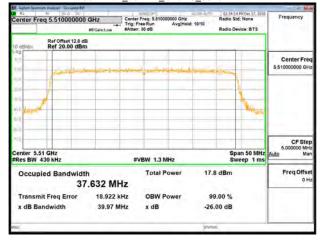
802.11ax\_40MHz\_Chain0\_5270MHz



802.11ax 40MHz Chain0 5310MHz



802.11ax 40MHz Chain0 5510MHz



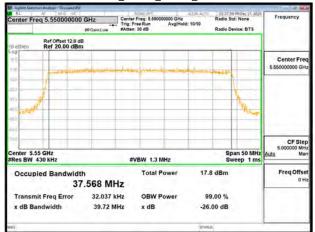
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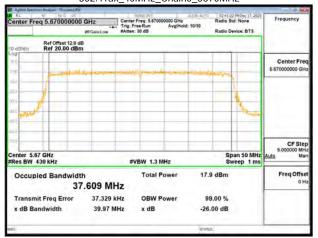


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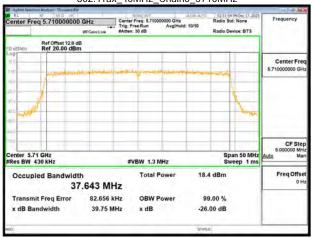
### 802.11ax\_40MHz\_Chain0\_5550MHz



#### 802.11ax 40MHz Chain0 5670MHz



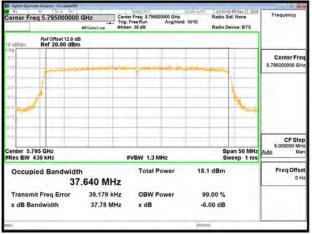
802.11ax 40MHz Chain0 5710MHz



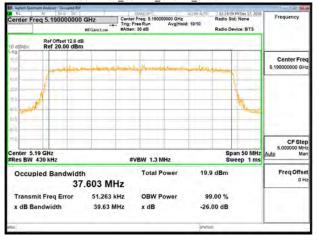
802.11ax\_40MHz\_Chain0\_5755MHz



802.11ax 40MHz Chain0 5795MHz



802.11ax 40MHz Chain1 5190MHz



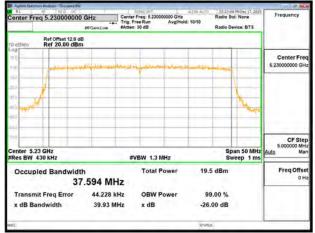
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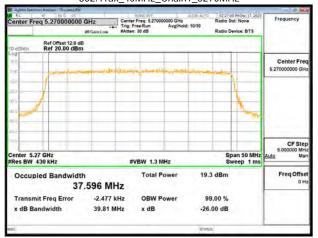


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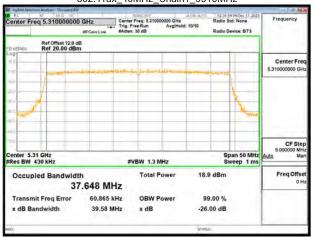
### 802.11ax\_40MHz\_Chain1\_5230MHz



#### 802.11ax 40MHz Chain1 5270MHz



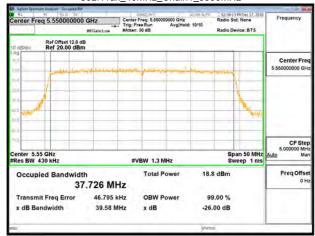
802.11ax 40MHz Chain1 5310MHz



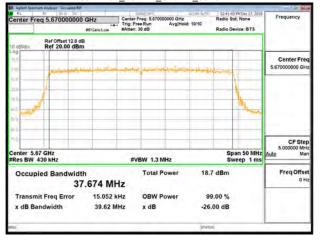
802.11ax\_40MHz\_Chain1\_5510MHz



802.11ax 40MHz Chain1 5550MHz



802.11ax 40MHz Chain1 5670MHz



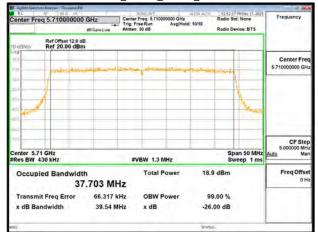
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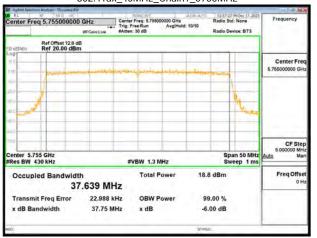


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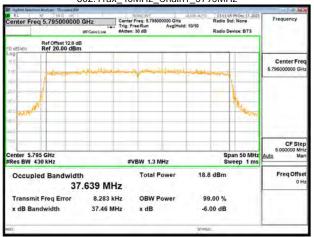
### 802.11ax\_40MHz\_Chain1\_5710MHz



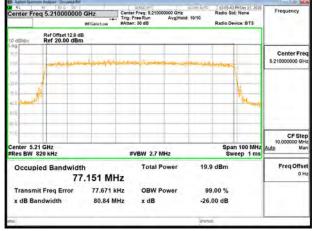
#### 802.11ax 40MHz Chain1 5755MHz



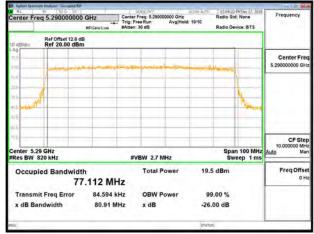
## 802.11ax 40MHz Chain1 5795MHz



### 802.11ax\_80MHz\_Chain0\_5210MHz



### 802.11ax 80MHz Chain0 5290MHz



### 802.11ax 80MHz Chain0 5530MHz



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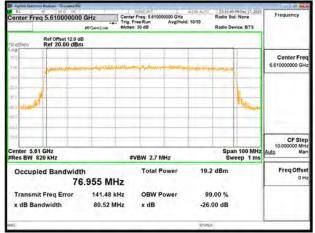
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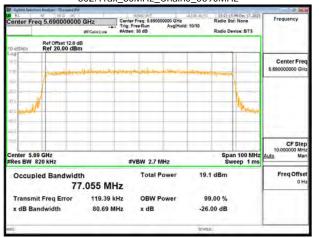


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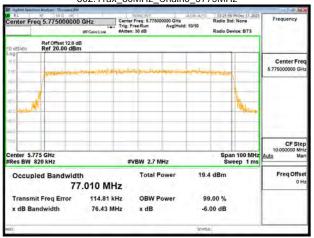
### 802.11ax\_80MHz\_Chain0\_5610MHz



#### 802.11ax 80MHz Chain0 5690MHz



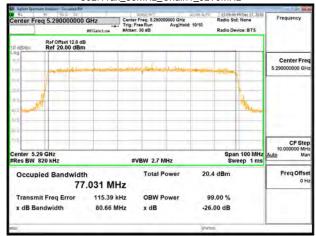
802.11ax 80MHz Chain0 5775MHz



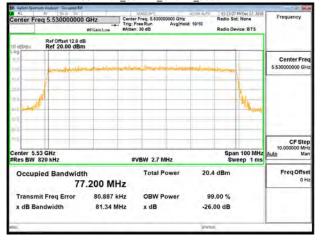
802.11ax\_80MHz\_Chain1\_5210MHz



802.11ax 80MHz Chain1 5290MHz



802.11ax 80MHz Chain1 5530MHz



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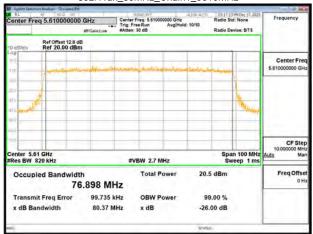
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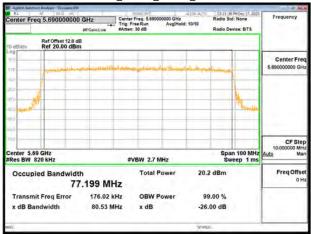


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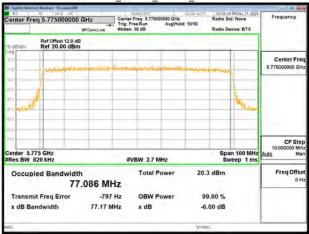
## 802.11ax\_80MHz\_Chain1\_5610MHz



#### 802.11ax 80MHz Chain1 5690MHz



## 802.11ax 80MHz Chain1 5775MHz



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# MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

#### Standard Applicable 9.1

## **FCC**

OPERZTION Band		EUT CATEGORY	LIMIT
		Access Point (Master device )	1 Watt(30dBm)
U-NII-1		Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√	Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	V		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	V		1 Watt(30dBm)

If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

### **ISED**

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or 10 + 10 log <sub>10</sub> B, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log <sub>10</sub> B EIRP shall not exceed 1.0 W or 17 + 10 log <sub>10</sub> B, dBm
5470-5600 MHz and	Conducted output power shall not exceed 250 mW or 11 +10 log <sub>10</sub> B
5650-5725 MHz	EIRP shall not exceed 1.0 W or 17 + 10 log <sub>10</sub> B, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W

For equipment operating in the band **5725-5850** MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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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.

• Directional Gain = 
$$10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SSS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^{2}}{N_{ANT}} \right]$$

## 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

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

G<sub>k</sub> 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.

#### 9.2 **Measurement Procedure**

- 1. Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules. 2.
- 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.
- Record the max. reading and add 10 log(1/duty cycle).
- Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

#### 9.3 Measurement Equipment Used

	SGS Conducted Room											
Name of Equipment	Manufacturer	Model	Serial Number	Calibra- tion Date	Calibra- tion Due							
Power Meter	Anritsu	nritsu ML2496A		02/20/2020	02/19/2021							
Power Sensor	Anritsu	MA2411B	1726104	02/20/2020	02/19/2021							
Power Sensor	Anritsu	MA2411B	1726107	02/20/2020	02/19/2021							
DC Power Sup- ply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021							
DC Power Sup- ply Agilent		E3640A	KR93300208	08/19/2020	08/18/2021							
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021							

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#### 9.4 **Test Set-up**



#### 9.5 **Measurement Result**

### **Conducted output power (FCC)** 9.5.1

802.11a Ch0

	_		TOTAL	TOTAL		REQUIRED		
СН	Frequency	Data	POWER	POWER		LIMIT		RESULT
	(MHz)	Rate	(dBm)	(mW)		(dBm)		
36	5180	6	12.99	19.923		23.98		PASS
44	5220	6	12.96	19.786		23.98		PASS
48	5240	6	12.94	19.695		23.98		PASS
52	5260	6	12.93	19.650	23.98	or 11+10log(B) =	23.66	PASS
60	5300	6	12.96	19.786	23.98	or 11+10log(B) =	23.66	PASS
64	5320	6	12.93	19.650	23.98	or 11+10log(B) =	23.61	PASS
100	5500	6	12.98	19.878	23.98	or 11+10log(B) =	23.63	PASS
116	5580	6	12.95	19.741	23.98	or 11+10log(B) =	23.66	PASS
140	5700	6	12.93	19.650	23.98	or 11+10log(B) =	23.67	PASS
144	5720(U-NII 2C)	6	11.83	15.23	23.98	or 11+10log(B) =	22.52	PASS
144	5720 (U-NII 3)	6	6.54	4.51		30		PASS
149	5745	6	12.96	19.786		30		PASS
157	5785	6	12.95	19.741		30		PASS
165	5825	6	12.99	19.923		30		PASS

## 802.11n HT20 Ch0

	1.120_00		TOTAL	TOTAL		DECLUBED		I
CII	Frequency	Data	TOTAL	TOTAL		REQUIRED		DECLUT
СН	(MHz)	Rate	POWER	POWER		LIMIT		RESULT
	, ,		(dBm)	(mW)		(dBm)		
36	5180	MCS0	12.98	19.861		23.98		PASS
44	5220	MCS0	12.95	19.724		23.98		PASS
48	5240	MCS0	12.83	19.187		23.98		PASS
52	5260	MCS0	12.81	19.099	23.98	or 11+10log(B) =	23.94	PASS
60	5300	MCS0	12.98	19.861	23.98	or 11+10log(B) =	23.91	PASS
64	5320	MCS0	12.99	19.907	23.98	or 11+10log(B) =	23.92	PASS
100	5500	MCS0	12.89	19.454	23.98	or 11+10log(B) =	23.94	PASS
116	5580	MCS0	12.87	19.364	23.98	or 11+10log(B) =	23.93	PASS
140	5700	MCS0	12.94	19.679	23.98	or 11+10log(B) =	23.89	PASS
144	5720(U-NII 2C)	MCS0	11.61	14.48	23.98	or 11+10log(B) =	22.72	PASS
144	5720 (U-NII 3)	MCS0	6.76	4.75		30		PASS
149	5745	MCS0	12.92	19.588		30		PASS
157	5785	MCS0	12.98	19.861		30		PASS
165	5825	MCS0	12.99	19.907		30		PASS

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## 802.11n\_HT20\_Ch1

	_							
СН	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
36	5180	MCS0	12.58	18.113		23.98		PASS
44	5220	MCS0	12.82	19.143		23.98		PASS
48	5240	MCS0	12.56	18.030		23.98		PASS
52	5260	MCS0	12.54	17.947	23.98	or 11+10log(B) =	23.92	PASS
60	5300	MCS0	12.81	19.099	23.98	or 11+10log(B) =	23.93	PASS
64	5320	MCS0	12.79	19.011	23.98	or 11+10log(B) =	23.93	PASS
100	5500	MCS0	12.44	17.539	23.98	or 11+10log(B) =	23.92	PASS
116	5580	MCS0	12.72	18.707	23.98	or 11+10log(B) =	23.94	PASS
140	5700	MCS0	12.63	18.323	23.98	or 11+10log(B) =	23.96	PASS
144	5720(U-NII 2C)	MCS0	11.51	14.17	23.98	or 11+10log(B) =	22.70	PASS
144	5720 (U-NII 3)	MCS0	6.61	4.58		30		PASS
149	5745	MCS0	12.58	18.113		30		PASS
157	5785	MCS0	12.64	18.365		30		PASS
165	5825	MCS0	12.67	18.493		30		PASS

## 802.11n\_HT20\_MIMO

	Frequency	Data	Avg. POV	/ER (dBm)	TOTAL	TOTAL		REQUIRED		
СН	(MHz)	Rate	CH 0	CH 1	POWER (dBm)	POWER (mW)		LIMIT (dBm)		RESULT
36	5180	MCS0	12.12	13.62	15.94	39.307		23.98		PASS
44	5220	MCS0	11.96	13.36	15.73	37.381		23.98		PASS
48	5240	MCS0	11.94	13.65	15.89	38.805		23.98		PASS
52	5260	MCS0	11.61	13.35	15.58	36.115	23.98	or 11+10log(B) =	23.92	PASS
60	5300	MCS0	11.71	13.27	15.57	36.058	23.98	or 11+10log(B) =	23.91	PASS
64	5320	MCS0	11.61	13.41	15.61	36.416	23.98	or 11+10log(B) =	23.92	PASS
100	5500	MCS0	11.74	13.22	15.55	35.917	23.98	or 11+10log(B) =	23.92	PASS
116	5580	MCS0	11.91	13.72	15.92	39.074	23.98	or 11+10log(B) =	23.93	PASS
140	5700	MCS0	11.8	13.14	15.53	35.742	23.98	or 11+10log(B) =	23.89	PASS
144	5720(U-NII 2C)	MCS0	10.74	12.00	14.43	27.718	23.98	or 11+10log(B) =	22.70	PASS
144	5720 (U-NII 3)	MCS0	5.89	7.10	9.55	9.012		30		PASS
149	5745	MCS0	11.98	13.4	15.76	37.654		30		PASS
157	5785	MCS0	11.93	13.37	15.72	37.323		30		PASS
165	5825	MCS0	12.05	13.23	15.69	37.070		30		PASS

# 802.11n\_HT40\_Ch0

СН	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
38	5190	MCS0	12.76	18.880		23.98		PASS
46	5230	MCS0	12.78	18.967		23.98		PASS
54	5270	MCS0	12.72	18.707	23.98	or 11+10log(B) =	26.94	PASS
62	5310	MCS0	12.90	19.498	23.98	or 11+10log(B) =	26.93	PASS
102	5510	MCS0	12.99	19.907	23.98	or 11+10log(B) =	26.93	PASS
110	5550	MCS0	12.97	19.815	23.98	or 11+10log(B) =	26.94	PASS
134	5670	MCS0	12.94	19.679	23.98	or 11+10log(B) =	26.91	PASS
142	5710(U-NII 2C)	MCS0	12.41	17.43	23.98	or 11+10log(B) =	26.40	PASS
142	5710 (U-NII 3)	MCS0	3.69	2.34		30		PASS
151	5755	MCS0	12.98	19.861		30		PASS
159	5795	MCS0	12.97	19.815		30		PASS

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## 802.11n\_HT40\_Ch1

СН	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	12.72	18.707		23.98		PASS
46	5230	MCS0	12.76	18.880		23.98		PASS
54	5270	MCS0	12.68	18.535	23.98	or 11+10log(B) =	26.90	PASS
62	5310	MCS0	12.54	17.947	23.98	or 11+10log(B) =	26.88	PASS
102	5510	MCS0	12.57	18.072	23.98	or 11+10log(B) =	26.88	PASS
110	5550	MCS0	12.56	18.030	23.98	or 11+10log(B) =	26.94	PASS
134	5670	MCS0	12.59	18.155	23.98	or 11+10log(B) =	26.86	PASS
142	5710(U-NII 2C)	MCS0	12.36	17.24	23.98	or 11+10log(B) =	26.36	PASS
142	5710 (U-NII 3)	MCS0	3.37	2.17		30	•	PASS
151	5755	MCS0	12.81	19.099		30	•	PASS
159	5795	MCS0	12.84	19.231		30	•	PASS

802.11n\_HT40\_MIMO

CII	Frequency	Data	Avg. POV	VER (dBm)	TOTAL	TOTAL		REQUIRED LIMIT		DECLUT
СН	(MHz)	Rate	CH 0	CH 1	POWER (dBm)	POWER (mW)	(dBm)			RESULT
38	5190	MCS0	11.67	13.73	15.83	38.294		23.98		PASS
46	5230	MCS0	11.67	13.44	15.65	36.769		23.98		PASS
54	5270	MCS0	11.65	13.42	15.63	36.600	23.98	or 11+10log(B) =	26.90	PASS
62	5310	MCS0	11.46	13.57	15.65	36.747	23.98	or 11+10log(B) =	26.88	PASS
102	5510	MCS0	12.01	13.25	15.68	37.020	23.98	or 11+10log(B) =	26.88	PASS
110	5550	MCS0	12.07	13.6	15.91	39.015	23.98	or 11+10log(B) =	26.94	PASS
134	5670	MCS0	12.02	13.39	15.77	37.749	23.98	or 11+10log(B) =	26.86	PASS
142	5710(U-NII 2C)	MCS0	11.48	12.52	15.04	31.951	23.98	or 11+10log(B) =	26.36	PASS
142	5720 (U-NII 3)	MCS0	2.76	3.53	6.18	4.145		30		PASS
151	5755	MCS0	12.28	13.52	15.95	39.395		30		PASS
159	5795	MCS0	12.22	13.45	15.89	38.803		30		PASS

802.11ac\_VHT80\_Ch0

СН	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
42	5210	MCS0	12.80	19.055		23.98		PASS
58	5290	MCS0	12.72	18.707	23.98	or 11+10log(B) =	30.06	PASS
106	5530	MCS0	12.95	19.724	23.98	or 11+10log(B) =	30.07	PASS
122	5610	MCS0	12.98	19.861	23.98	or 11+10log(B) =	30.10	PASS
138	5690(U-NII 2C)	MCS0	12.67	18.47	23.98	or 11+10log(B) =	30.08	PASS
138	5690 (U-NII 3)	MCS0	1.28	1.34		30		PASS
155	5775	MCS0	12.98	19.861		30		PASS

802.11ac VHT80 Ch1

СН	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
42	5210	MCS0	12.74	18.793		23.98		PASS
58	5290	MCS0	12.68	18.535	23.98	or 11+10log(B) =	30.06	PASS
106	5530	MCS0	12.91	19.543	23.98	or 11+10log(B) =	30.05	PASS
122	5610	MCS0	12.62	18.281	23.98	or 11+10log(B) =	30.04	PASS
138	5690(U-NII 2C)	MCS0	12.27	16.87	23.98	or 11+10log(B) =	30.07	PASS
138	5690 (U-NII 3)	MCS0	0.79	1.20		30		PASS
155	5775	MCS0	12.75	18.836		30		PASS

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CII	Frequency	Data	Avg. POW	ER (dBm)	TOTAL POWER	TOTAL	REQUIRED LIMIT			DECI I
СН	(MHz)	Rate	CH 0	CH 1	(dBm)	POWER (mW)		(dBm)		RESULT
42	5210	MCS0	11.74	13.19	15.54	35.773		23.98		PASS
58	5290	MCS0	11.66	13.25	15.54	35.790	23.98	or 11+10log(B) =	30.06	PASS
106	5530	MCS0	11.78	13.53	15.75	37.608	23.98	or 11+10log(B) =	30.05	PASS
122	5610	MCS0	12.05	13.73	15.98	39.637	23.98	or 11+10log(B) =	30.04	PASS
138	5690(U-NII 2C)	MCS0	11.75	13.17	15.53	35.703	23.98	or 11+10log(B) =	30.07	PASS
138	5690 (U-NII 3)	MCS0	0.36	1.69	4.09	2.562		30		PASS
155	5775	MCS0	12.15	13.64	15.97	39.527		30	•	PASS

802.11ax 20 Ch0

	F=====================================	Dete		TOTAL	TOTAL		REQUIRED		
CH	Frequency	Data Rate	RU config.	POWER	POWER		LIMIT		RESULT
	(MHz)	Rate		(dBm)	(mW)		(dBm)		
		MCS0	full	12.98	19.861		23.98		PASS
20	F100	MCS0	26/0	11.74	14.928		23.98		PASS
36	5180	MCS0	52/37	12.73	18.750		23.98		PASS
		MCS0	106/53	12.88	19.409		23.98		PASS
44	5220	MCS0	full	12.99	19.907		23.98		PASS
48	5240	MCS0	full	12.85	19.275		23.98		PASS
52	5260	MCS0	full	12.83	19.187	23.98	or 11+10log(B) =	24.06	PASS
60	5300	MCS0	full	12.82	19.143	23.98	or 11+10log(B) =	24.13	PASS
		MCS0	full	12.85	19.275	23.98	or 11+10log(B) =	24.10	PASS
64	5320	MCS0	26/8	11.74	14.928	23.98	or 11+10log(B) =	24.10	PASS
64	5320	MCS0	52/40	12.88	19.409	23.98	or 11+10log(B) =	24.10	PASS
		MCS0	106/54	12.95	19.724	23.98	or 11+10log(B) =	24.10	PASS
		MCS0	full	12.97	19.815	23.98	or 11+10log(B) =	24.11	PASS
100	FF00	MCS0	26/0	11.94	15.631	23.98	or 11+10log(B) =	24.11	PASS
100	5500	MCS0	52/37	12.86	19.320	23.98	or 11+10log(B) =	24.11	PASS
		MCS0	106/53	12.97	19.815	23.98	or 11+10log(B) =	24.11	PASS
116	5580	MCS0	full	12.93	19.634	23.98	or 11+10log(B) =	24.11	PASS
		MCS0	full	12.92	19.588	23.98	or 11+10log(B) =	24.11	PASS
140	5700	MCS0	26/8	11.94	15.631	23.98	or 11+10log(B) =	24.11	PASS
140	5700	MCS0	52/40	12.94	19.679	23.98	or 11+10log(B) =	24.11	PASS
		MCS0	106/54	12.76	18.880	23.98	or 11+10log(B) =	24.11	PASS
144	5720(U-NII 2C)	MCS0	full	11.70	14.791	23.98	or 11+10log(B) =	22.80	PASS
144	5720 (U-NII 3)	MCS0	full	7.01	5.025		30		PASS
		MCS0	full	12.99	19.907		30		PASS
1.40	F74F	MCS0	26/0	11.81	15.171		30		PASS
149	5745	MCS0	52/37	12.72	18.707		30		PASS
		MCS0	106/53	12.81	19.099		30		PASS
157	5785	MCS0	full	12.98	19.861		30		PASS
		MCS0	full	12.81	19.099		30		PASS
165	EOJE	MCS0	26/8	11.81	15.171		30		PASS
165	5825	MCS0	52/40	12.81	19.099		30		PASS
		MCS0	106/54	12.93	19.634		30		PASS

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СН	Frequency (MHz)	Data Rate	RU config.	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
	(141112)	reate		(dBm)	(mW)		(dBm)		
		MCS0	full	12.78	18.967		23.98		PASS
36	5180	MCS0	26/0	11.98	15.776		23.98		PASS
30	3180	MCS0	52/37	12.93	19.634		23.98		PASS
		MCS0	106/53	12.97	19.815		23.98		PASS
44	5220	MCS0	full	12.54	17.947		23.98		PASS
48	5240	MCS0	full	12.67	18.493		23.98		PASS
52	5260	MCS0	full	12.65	18.408	23.98	or 11+10log(B) =	24.15	PASS
60	5300	MCS0	full	12.51	17.824	23.98	or 11+10log(B) =	24.07	PASS
		MCS0	full	12.67	18.493	23.98	24.11	PASS	
64	5320	MCS0	26/8	11.95	15.668	23.98	or 11+10log(B) =	24.11	PASS
04	3320	MCS0	52/40	12.75	18.836	23.98	or 11+10log(B) =	24.11	PASS
		MCS0	106/54	12.82	19.143	23.98	or 11+10log(B) =	24.11	PASS
		MCS0	full	12.60	18.197	23.98	or 11+10log(B) =	24.12	PASS
100	FF00	MCS0	26/0	11.84	15.276	23.98	or 11+10log(B) =	24.12	PASS
100	5500	MCS0	52/37	12.89	19.454	23.98	or 11+10log(B) =	24.12	PASS
		MCS0	106/53	12.94	19.679	23.98	or 11+10log(B) =	24.12	PASS
116	5580	MCS0	full	12.77	18.923	23.98	or 11+10log(B) =	24.09	PASS
		MCS0	full	12.77	18.923	23.98	or 11+10log(B) =	24.09	PASS
4.40	5700	MCS0	26/8	11.85	15.311	23.98	or 11+10log(B) =	24.09	PASS
140	5700	MCS0	52/40	12.91	19.543	23.98	or 11+10log(B) =	24.09	PASS
		MCS0	106/54	12.93	19.634	23.98	or 11+10log(B) =	24.09	PASS
144	5720(U-NII 2C)	MCS0	full	11.64	14.593	23.98	or 11+10log(B) =	22.82	PASS
144	5720 (U-NII 3)	MCS0	full	6.99	4.995		30		PASS
		MCS0	full	12.78	18.967		30		PASS
4.40	5745	MCS0	26/0	11.97	15.740		30		PASS
149	5745	MCS0	52/37	12.99	19.907		30		PASS
		MCS0	106/53	12.65	18.408		30		PASS
157	5785	MCS0	full	12.77	18.923		30		PASS
		MCS0	full	12.77	18.923		30		PASS
165	5025	MCS0	26/8	11.79	15.101		30		PASS
165	5825	MCS0	52/40	12.81	19.099		30		PASS
		MCS0	106/54	12.91	19.543		30		PASS

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<u></u>	Frequency	Data	DII	Avg. POW	ER (dBm)	TOTAL	TOTAL		REQUIRED		DEQUIT
СН	(MHz)	Rate	RU config.	CH 0	CH 1	POWER (dBm)	POWER (mW)		LIMIT (dBm)		RESULT
		MCS0	full	12.05	13.71	15.97	39.529		23.98		PASS
	=+00	MCS0	26/0	11.45	11.94	14.71	29.595		23.98		PASS
36	5180	MCS0	52/37	12.37	13.22	15.83	38.248		23.98		PASS
		MCS0	106/53	12.48	13.23	15.88	38.739		23.98		PASS
44	5220	MCS0	full	12.03	13.53	15.85	38.501		23.98		PASS
48	5240	MCS0	full	11.95	13.68	15.91	39.002		23.98		PASS
52	5260	MCS0	full	11.95	13.68	15.91	39.002	23.98	or 11+10log(B) =	24.06	PASS
60	5300	MCS0	full	11.8	13.41	15.69	37.064	23.98	or 11+10log(B) =	24.07	PASS
		MCS0	full	11.78	13.51	15.74	37.505	23.98	or 11+10log(B) =	24.10	PASS
	5220	MCS0	26/8	11.4	12.49	14.99	31.546	23.98	or 11+10log(B) =	24.10	PASS
64	5320	MCS0	52/40	12.46	13.42	15.98	39.598	23.98	or 11+10log(B) =	24.10	PASS
		MCS0	106/54	12.23	13.21	15.76	37.652	23.98	or 11+10log(B) =	24.10	PASS
		MCS0	full	11.84	13.35	15.67	36.903	23.98	or 11+10log(B) =	24.11	PASS
		MCS0	26/0	11.63	12.29	14.98	31.498	23.98	or 11+10log(B) =	24.11	PASS
100	5500	MCS0	52/37	12.59	13.28	15.96	39.437	23.98	or 11+10log(B) =	24.11	PASS
		MCS0	106/53	12.64	13.29	15.99	39.696	23.98	or 11+10log(B) =	24.11	PASS
116	5580	MCS0	full	11.97	13.74	15.95	39.399	23.98	or 11+10log(B) =	24.09	PASS
		MCS0	full	11.93	13.39	15.73	37.423	23.98	or 11+10log(B) =	24.09	PASS
		MCS0	26/8	11.68	12.24	14.98	31.473	23.98	or 11+10log(B) =	24.09	PASS
140	5700	MCS0	52/40	12.55	13.37	15.99	39.716	23.98	or 11+10log(B) =	24.09	PASS
		MCS0	106/54	12.58	13.35	15.99	39.741	23.98	or 11+10log(B) =	24.09	PASS
144	5720(U-NII 2C)	MCS0	full	10.59	12.08	14.41	27.604	23.98	or 11+10log(B) =	22.80	PASS
144	5720 (U-NII 3)	MCS0	full	5.90	7.43	9.74	9.420		30		PASS
		MCS0	full	12.07	13.54	15.88	38.701		30		PASS
		MCS0	26/0	11.21	12.06	14.67	29.282		30		PASS
149	5745	MCS0	52/37	12.25	13.12	15.72	37.300		30		PASS
		MCS0	106/53	12.39	13.09	15.76	37.708		30		PASS
157	5785	MCS0	full	12.05	13.42	15.80	38.011		30		PASS
		MCS0	full	12.15	13.41	15.84	38.334		30		PASS
4.65	5025	MCS0	26/8	11.41	12.49	14.99	31.578		30		PASS
165	5825	MCS0	52/40	12.58	13.33	15.98	39.641		30		PASS
		MCS0	106/54	12.26	13.12	15.72	37.338		30		PASS

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СН	Frequency (MHz)	Data Rate	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
20	F100	MCS0	full	12.98	19.861		23.98		PASS
38	5190	MCS0	242/61	12.81	19.099		23.98		PASS
46	5230	MCS0	full	12.96	19.770		23.98		PASS
54	5270	MCS0	full	12.92	19.588	23.98	or 11+10log(B) =	27.00	PASS
62	F210	MCS0	full	12.81	19.099	23.98	or 11+10log(B) =	27.00	PASS
62	5310	MCS0	242/62	12.91	19.543	23.98	or 11+10log(B) =	27.00	PASS
103	5510	MCS0	full	12.97	19.815	23.98	or 11+10log(B) =	27.02	PASS
102	5510	MCS0	242/61	12.67	18.493	23.98	or 11+10log(B) =	27.02	PASS
110	5550	MCS0	full	12.99	19.907	23.98	or 11+10log(B) =	27.03	PASS
124	F.C.70	MCS0	full	12.97	19.815	23.98	or 11+10log(B) =	27.02	PASS
134	5670	MCS0	242/62	12.84	19.231	23.98	or 11+10log(B) =	27.02	PASS
142	5710(U-NII 2C)	MCS0	full	12.40	17.381	23.98	or 11+10log(B) =	26.45	PASS
142	5710 (U-NII 3)	MCS0	full	4.02	2.525		30		PASS
454	F7FF	MCS0	full	12.96	19.770		30		PASS
151	5755	MCS0	242/61	12.94	19.679		30		PASS
150	F70F	MCS0	full	12.98	19.861		30		PASS
159	5795	MCS0	242/62	12.90	19.498		30		PASS

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СН	Frequency (MHz)	Data Rate	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	full	12.96	19.770		23.98		PASS
30	5190	MCS0	242/61	12.81	19.099		23.98		PASS
46	5230	MCS0	full	12.72	18.707		23.98		PASS
54	5270	MCS0	full	12.73	18.750	23.98	or 11+10log(B) =	27.01	PASS
C	F210	MCS0	full	12.77	18.923	23.98	or 11+10log(B) =	27.02	PASS
62	5310	MCS0	242/62	12.98	19.861	23.98	or 11+10log(B) =	27.02	PASS
100	5540	MCS0	full	12.56	18.030	23.98	or 11+10log(B) =	27.02	PASS
102	5510	MCS0	242/61	12.88	19.409	23.98	or 11+10log(B) =	27.02	PASS
110	5550	MCS0	full	12.86	19.320	23.98	or 11+10log(B) =	27.00	PASS
124	5670	MCS0	full	12.89	19.454	23.98	or 11+10log(B) =	27.01	PASS
134	5670	MCS0	242/62	12.97	19.815	23.98	or 11+10log(B) =	27.01	PASS
142	5710(U-NII 2C)	MCS0	full	12.27	16.874	23.98	or 11+10log(B) =	26.42	PASS
142	5710 (U-NII 3)	MCS0	full	3.72	2.357		30		PASS
454		MCS0	full	12.82	19.143		30		PASS
151	5755	MCS0	242/61	12.73	18.750		30		PASS
150	F70F	MCS0	full	12.81	19.099		30		PASS
159	5795	MCS0	242/62	12.99	19.907		30		PASS

802 11ay 40 MIMO

СН	Frequency	Data	RU config.	Avg. POW	/ER (dBm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
СП	(MHz)	Rate	Ko comig.	CH 0	CH 1	(dBm)	(mW)		(dBm)		RESULT
20	5400	MCS0	full	12.04	13.76	15.99	39.764		23.98		PASS
38	5190	MCS0	242/61	12.49	13.42	15.99	39.720		23.98		PASS
46	5230	MCS0	full	11.95	13.78	15.97	39.546		23.98		PASS
54	5270	MCS0	full	11.94	13.76	15.95	39.400	23.98	or 11+10log(B) =	27.00	PASS
62	5240	MCS0	full	11.89	13.72	15.91	39.003	23.98	or 11+10log(B) =	27.00	PASS
62	5310	MCS0	242/62	12.3	13.45	15.92	39.113	23.98	or 11+10log(B) =	27.00	PASS
102	5540	MCS0	full	11.96	13.21	15.64	36.645	23.98	or 11+10log(B) =	27.02	PASS
102	5510	MCS0	242/61	12.47	12.89	15.70	37.114	23.98	or 11+10log(B) =	27.02	PASS
110	5550	MCS0	full	12.07	13.42	15.81	38.085	23.98	or 11+10log(B) =	27.00	PASS
124	F.C.70	MCS0	full	11.99	13.36	15.74	37.490	23.98	or 11+10log(B) =	27.01	PASS
134	5670	MCS0	242/62	12.44	12.96	15.72	37.309	23.98	or 11+10log(B) =	27.01	PASS
142	5710(U-NII 2C)	MCS0	full	11.82	12.91	15.41	34.762	23.98	or 11+10log(B) =	26.42	PASS
142	5710 (U-NII 3)	MCS0	full	3.44	4.36	6.94	4.941		30		PASS
151	5755	MCS0	full	12.08	13.49	15.85	38.479		30		PASS
151	5755	MCS0	242/61	12.3	13.39	15.89	38.810		30		PASS
150	F70F	MCS0	full	12.23	13.44	15.89	38.791		30		PASS
159	5795	MCS0	242/62	12.41	13.22	15.84	38.407		30		PASS

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СН	Frequency (MHz)	Data Rate	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
42	5210	MCS0	full	12.76	18.880		23.98		PASS
42	5210	MCS0	484/65	12.88	19.409		23.98		PASS
58	F200	MCS0	full	12.75	18.836	23.98	or 11+10log(B) =	30.10	PASS
58	5290	MCS0	484/66	12.82	19.143	23.98	or 11+10log(B) =	30.10	PASS
106	5530	MCS0	full	12.99	19.907	23.98	or 11+10log(B) =	30.10	PASS
106	5530	MCS0	484/65	12.97	19.815	23.98	or 11+10log(B) =	30.10	PASS
122	5610	MCS0	full	12.97	19.815	23.98	or 11+10log(B) =	30.08	PASS
122	2010	MCS0	484/66	12.83	19.187	23.98	or 11+10log(B) =	30.08	PASS
138	5690(U-NII 2C)	MCS0	full	12.66	18.459	23.98	or 11+10log(B) =	30.11	PASS
138	5690 (U-NII 3)	MCS0	full	1.47	1.402		30		PASS
		MCS0	full	12.99	19.907		30		PASS
155	5775	MCS0	484/65	12.81	19.099		30		PASS
		MCS0	484/66	12.93	19.634		30		PASS

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СН	Frequency (MHz)	Data Rate	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
42	5240	MCS0	full	12.72	18.707		23.98		PASS
42	5210	MCS0	484/65	12.88	19.409		23.98		PASS
го	F200	MCS0	full	12.70	18.621	23.98	or 11+10log(B) =	30.08	PASS
58	5290	MCS0	484/66	12.84	19.231	23.98	or 11+10log(B) =	30.08	PASS
100	5520	MCS0	full	12.96	19.770	23.98	or 11+10log(B) =	30.07	PASS
106	5530	MCS0	484/65	12.95	19.724	23.98	or 11+10log(B) =	30.07	PASS
122	FC10	MCS0	full	12.61	18.239	23.98	or 11+10log(B) =	30.09	PASS
122	5610	MCS0	484/66	12.76	18.880	23.98	or 11+10log(B) =	30.09	PASS
138	5690(U-NII 2C)	MCS0	full	12.21	16.634	23.98	or 11+10log(B) =	30.07	PASS
138	5690 (U-NII 3)	MCS0	full	0.76	1.190		30		PASS
		MCS0	full	12.67	18.493		30		PASS
155	5775	MCS0	484/65	12.88	19.409		30		PASS
		MCS0	484/66	12.81	19.099		30		PASS

802.11ax 80 MIMO

CII	Frequency	Data	DU saufin	Avg. POW	/ER (dBm)	TOTAL	TOTAL POWER		REQUIRED LIMIT		RESULT
СН	(MHz)	Rate	RU config.	CH 0	CH 1	POWER (dBm)	(mW)		(dBm)		KESULI
42	F240	MCS0	full	12.09	13.72	15.99	39.731		23.98		PASS
42	5210	MCS0	484/65	12.55	13.16	15.88	38.690		23.98		PASS
	F200	MCS0	full	12.11	13.66	15.96	39.483	23.98	or 11+10log(B) =	30.08	PASS
58	5290	MCS0	484/66	12.51	13.22	15.89	38.813	23.98	or 11+10log(B) =	30.08	PASS
100	FF20	MCS0	full	11.84	13.53	15.78	37.818	23.98	or 11+10log(B) =	30.07	PASS
106	5530	MCS0	484/65	12.3	13.04	15.70	37.120	23.98	or 11+10log(B) =	30.07	PASS
422	5640	MCS0	full	12.04	13.48	15.83	38.280	23.98	or 11+10log(B) =	30.08	PASS
122	5610	MCS0	484/66	12.55	13.32	15.96	39.467	23.98	or 11+11log(B) =	30.08	PASS
138	5690(U-NII 2C)	MCS0	full	11.71	13.14	15.49	35.438	23.98	or 11+10log(B) =	30.07	PASS
138	5690 (U-NII 3)	MCS0	full	0.52	1.69	4.15	2.601		30		PASS
		MCS0	full	12.16	13.61	15.96	39.405		30		PASS
155	5775	MCS0	484/65	12.27	13.54	15.96	39.460		30		PASS
		MCS0	484/66	12.26	13.27	15.80	38.059		30		PASS

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#### 9.5.2 **ISED EIRP**

002.11a_C	MU								
СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	12.99	-5.000	7.99	6.300	23.01	or 10+10log(B)=	22.13	PASS
44	5220	12.96	-5.000	7.96	6.257	23.01	or 10+10log(B)=	22.13	PASS
48	5240	12.94	-5.000	7.94	6.228	23.01	or 10+10log(B)=	22.13	PASS
52	5260	12.93	-5.000	7.93	6.214	30	or 17+10log(B)=	29.13	PASS
60	5300	12.96	-5.000	7.96	6.257	30	or 17+10log(B)=	29.13	PASS
64	5320	12.93	-5.000	7.93	6.214	30	or 17+10log(B)=	29.13	PASS
100	5500	12.98	-5.000	7.98	6.286	30	or 17+10log(B)=	29.13	PASS
116	5580	12.95	-5.000	7.95	6.243	30	or 17+10log(B)=	29.13	PASS
140	5700	12.93	-5.000	7.93	6.214	30	or 17+10log(B)=	29.13	PASS

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СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	12.98	-5.000	7.98	6.281	23.01	or 10+10log(B)=	22.44	PASS
44	5220	12.95	-5.000	7.95	6.237	23.01	or 10+10log(B)=	22.44	PASS
48	5240	12.83	-5.000	7.83	6.067	23.01	or 10+10log(B)=	22.44	PASS
52	5260	12.81	-5.000	7.81	6.039	30	or 17+10log(B)=	29.44	PASS
60	5300	12.98	-5.000	7.98	6.281	30	or 17+10log(B)=	29.44	PASS
64	5320	12.99	-5.000	7.99	6.295	30	or 17+10log(B)=	29.44	PASS
100	5500	12.89	-5.000	7.89	6.152	30	or 17+10log(B)=	29.44	PASS
116	5580	12.87	-5.000	7.87	6.124	30	or 17+10log(B)=	29.44	PASS
140	5700	12.94	-5.000	7.94	6.223	30	or 17+10log(B)=	29.44	PASS

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СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	12.58	-2.300	10.28	10.666	23.01	or 10+10log(B)=	22.44	PASS
44	5220	12.82	-2.300	10.52	11.272	23.01	or 10+10log(B)=	22.44	PASS
48	5240	12.56	-2.300	10.26	10.617	23.01	or 10+10log(B)=	22.44	PASS
52	5260	12.54	-2.300	10.24	10.568	30	or 17+10log(B)=	22.44	PASS
60	5300	12.81	-2.300	10.51	11.246	30	or 17+10log(B)=	22.44	PASS
64	5320	12.79	-2.300	10.49	11.194	30	or 17+10log(B)=	22.44	PASS
100	5500	12.44	-2.300	10.14	10.328	30	or 17+10log(B)=	22.44	PASS
116	5580	12.72	-2.300	10.42	11.015	30	or 17+10log(B)=	22.43	PASS
140	5700	12.63	-2.300	10.33	10.789	30	or 17+10log(B)=	22.44	PASS

802.11n\_HT20\_MIMO

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	15.94	-0.540	15.40	34.712	23.01	or 10+10log(B)=	22.44	PASS
44	5220	15.73	-0.540	15.19	33.010	23.01	or 10+10log(B)=	22.44	PASS
48	5240	15.89	-0.540	15.35	34.268	23.01	or 10+10log(B)=	22.44	PASS
52	5260	15.58	-0.540	15.04	31.892	30	or 17+10log(B)=	29.44	PASS
60	5300	15.57	-0.540	15.03	31.842	30	or 17+10log(B)=	29.44	PASS
64	5320	15.61	-0.540	15.07	32.158	30	or 17+10log(B)=	29.44	PASS
100	5500	15.55	-0.540	15.01	31.718	30	or 17+10log(B)=	29.44	PASS
116	5580	15.92	-0.540	15.38	34.506	30	or 17+10log(B)=	29.43	PASS
140	5700	15.53	-0.540	14.99	31.563	30	or 17+10log(B)=	29.44	PASS

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СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
38	5190	12.76	-5.000	7.76	5.970	23.01	or 10+10log(B)=	25.56	PASS
46	5230	12.78	-5.000	7.78	5.998	23.01	or 10+10log(B)=	25.56	PASS
54	5270	12.72	-5.000	7.72	5.916	30	or 17+10log(B)=	32.56	PASS
62	5310	12.90	-5.000	7.90	6.166	30	or 17+10log(B)=	32.56	PASS
102	5510	12.99	-5.000	7.99	6.295	30	or 17+10log(B)=	32.56	PASS
110	5550	12.97	-5.000	7.97	6.266	30	or 17+10log(B)=	32.56	PASS
134	5670	12.94	-5.000	7.94	6.223	30	or 17+10log(B)=	32.56	PASS

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СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
38	5190	12.72	-2.300	10.42	11.015	23.01	or 10+10log(B)=	25.57	PASS
46	5230	12.76	-2.300	10.46	11.117	23.01	or 10+10log(B)=	25.56	PASS
54	5270	12.68	-2.300	10.38	10.914	30	or 17+10log(B)=	32.56	PASS
62	5310	12.54	-2.300	10.24	10.568	30	or 17+10log(B)=	32.56	PASS
102	5510	12.57	-2.300	10.27	10.641	30	or 17+10log(B)=	32.56	PASS
110	5550	12.56	-2.300	10.26	10.617	30	or 17+10log(B)=	32.56	PASS
134	5670	12.59	-2.300	10.29	10.691	30	or 17+10log(B)=	32.56	PASS

802.11n HT40 MIMO

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
38	5190	15.83	-0.540	15.29	33.817	23.01	or 10+10log(B)=	25.56	PASS
46	5230	15.65	-0.540	15.11	32.470	23.01	or 10+10log(B)=	25.56	PASS
54	5270	15.63	-0.540	15.09	32.321	30	or 17+10log(B)=	32.56	PASS
62	5310	15.65	-0.540	15.11	32.450	30	or 17+10log(B)=	32.56	PASS
102	5510	15.68	-0.540	15.14	32.692	30	or 17+10log(B)=	32.56	PASS
110	5550	15.91	-0.540	15.37	34.453	30	or 17+10log(B)=	32.56	PASS
134	5670	15.77	-0.540	15.23	33.336	30	or 17+10log(B)=	32.56	PASS

802.11ac\_VHT80\_Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
42	5210	12.80	-5.000	7.80	6.026	23.01	or 10+10log(B)=	28.77	PASS
58	5290	12.72	-5.000	7.72	5.916	30	or 17+10log(B)=	35.78	PASS
106	5530	12.95	-5.000	7.95	6.237	30	or 17+10log(B)=	35.77	PASS

802.11ac VHT80 Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT	
42	5210	12.74	-2.300	10.44	11.066	23.01	or 10+10log(B)=	28.77	PASS
58	5290	12.68	-2.300	10.38	10.914	30	or 17+10log(B)=	35.77	PASS
106	5530	12.91	-2.300	10.61	11.508	30	or 17+10log(B)=	35.77	PASS

802.11ac\_VHT80\_MIMO

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
42	5210	15.54	-0.540	15.00	31.590	23.01	or 10+10log(B)=	28.77	PASS
58	5290	15.54	-0.540	15.00	31.606	30	or 17+10log(B)=	35.77	PASS
106	5530	15.75	-0.540	15.21	33.211	30	or 17+10log(B)=	35.77	PASS

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802.11ax\_20\_Ch0

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
		full	12.98	-5.000	7.98	6.281	23.01	or 10+10log(B)=	22.76	PASS
36	5180	26/0	11.74	-5.000	6.74	4.721	23.01	or 10+10log(B)=	22.76	PASS
30	5180	52/37	12.73	-5.000	7.73	5.929	23.01	or 10+10log(B)=	22.76	PASS
		106/53	12.88	-5.000	7.88	6.138	23.01	or 10+10log(B)=	22.76	PASS
44	5220	full	12.99	-5.000	7.99	6.295	23.01	or 10+10log(B)=	22.75	PASS
48	5240	full	12.85	-5.000	7.85	6.095	23.01	or 10+10log(B)=	22.76	PASS
52	5260	full	12.83	-5.000	7.83	6.067	30	or 17+10log(B)=	29.75	PASS
60	5300	full	12.82	-5.000	7.82	6.053	30	or 17+10log(B)=	29.77	PASS
		full	12.85	-5.000	7.85	6.095	30	or 17+10log(B)=	29.76	PASS
64	F220	26/8	11.74	-5.000	6.74	4.721	30	or 17+10log(B)=	29.76	PASS
04	5320	52/40	12.88	-5.000	7.88	6.138	30	or 17+10log(B)=	29.76	PASS
		106/54	12.95	-5.000	7.95	6.237	30	or 17+10log(B)=	29.76	PASS
		full	12.97	-5.000	7.97	6.266	30	or 17+10log(B)=	29.76	PASS
100	FF00	26/0	11.94	-5.000	6.94	4.943	30	or 17+10log(B)=	29.76	PASS
100	5500	52/37	12.86	-5.000	7.86	6.109	30	or 17+10log(B)=	29.76	PASS
		106/53	12.97	-5.000	7.97	6.266	30	or 17+10log(B)=	29.76	PASS
116	5580	full	12.93	-5.000	7.93	6.209	30	or 17+10log(B)=	29.76	PASS
		full	12.92	-5.000	7.92	6.194	30	or 17+10log(B)=	29.76	PASS
140	F700	26/8	11.94	-5.000	6.94	4.943	30	or 17+10log(B)=	29.76	PASS
140	5700	52/40	12.94	-5.000	7.94	6.223	30	or 17+10log(B)=	29.76	PASS
		106/54	12.76	-5.000	7.76	5.970	30	or 17+10log(B)=	29.76	PASS

802.11ax\_20\_Ch1

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
		full	12.78	-2.300	10.48	11.169	23.01	or 10+10log(B)=	22.76	PASS
36	5180	26/0	11.98	-2.300	9.68	9.290	23.01	or 10+10log(B)=	22.76	PASS
30	3100	52/37	12.93	-2.300	10.63	11.561	23.01	or 10+10log(B)=	22.76	PASS
		106/53	12.97	-2.300	10.67	11.668	23.01	or 10+10log(B)=	22.76	PASS
44	5220	full	12.54	-2.300	10.24	10.568	23.01	or 10+10log(B)=	22.75	PASS
48	5240	full	12.67	-2.300	10.37	10.889	23.01	or 10+10log(B)=	22.76	PASS
52	5260	full	12.65	-2.300	10.35	10.839	30	or 17+10log(B)=	29.76	PASS
60	5300	full	12.51	-2.300	10.21	10.495	30	or 17+10log(B)=	29.76	PASS
		full	12.67	-2.300	10.37	10.889	30	or 17+10log(B)=	29.75	PASS
64	5320	26/8	11.95	-2.300	9.65	9.226	30	or 17+10log(B)=	29.75	PASS
04	3320	52/40	12.75	-2.300	10.45	11.092	30	or 17+10log(B)=	29.75	PASS
		106/54	12.82	-2.300	10.52	11.272	30	or 17+10log(B)=	29.75	PASS
		full	12.60	-2.300	10.30	10.715	30	or 17+10log(B)=	29.76	PASS
100	FF00	26/0	11.84	-2.300	9.54	8.995	30	or 17+10log(B)=	29.76	PASS
100	5500	52/37	12.89	-2.300	10.59	11.455	30	or 17+10log(B)=	29.76	PASS
		106/53	12.94	-2.300	10.64	11.588	30	or 17+10log(B)=	29.76	PASS
116	5580	full	12.77	-2.300	10.47	11.143	30	or 17+10log(B)=	29.76	PASS
		full	12.77	-2.300	10.47	11.143	30	or 17+10log(B)=	29.76	PASS
140	E700	26/8	11.85	-2.300	9.55	9.016	30	or 17+10log(B)=	29.76	PASS
140	5700	52/40	12.91	-2.300	10.61	11.508	30	or 17+10log(B)=	29.76	PASS
		106/54	12.93	-2.300	10.63	11.561	30	or 17+10log(B)=	29.76	PASS

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## 802.11ax\_20\_MIMO

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
		full	15.97	-0.540	15.43	34.907	23.01	or 10+10log(B)=	22.76	PASS
36	F100	26/0	14.71	-0.540	14.17	26.135	23.01	or 10+10log(B)=	22.76	PASS
30	5180	52/37	15.83	-0.540	15.29	33.776	23.01	or 10+10log(B)=	22.76	PASS
		106/53	15.88	-0.540	15.34	34.210	23.01	or 10+10log(B)=	22.76	PASS
44	5220	full	15.85	-0.540	15.31	34.000	23.01	or 10+10log(B)=	22.75	PASS
48	5240	full	15.91	-0.540	15.37	34.442	23.01	or 10+10log(B)=	22.76	PASS
52	5260	full	15.91	-0.540	15.37	34.442	30	or 17+10log(B)=	29.75	PASS
60	5300	full	15.69	-0.540	15.15	32.730	30	or 17+10log(B)=	29.76	PASS
		full	15.74	-0.540	15.20	33.120	30	or 17+10log(B)=	29.75	PASS
64	5320	26/8	14.99	-0.540	14.45	27.857	30	or 17+10log(B)=	29.75	PASS
04	3320	52/40	15.98	-0.540	15.44	34.969	30	or 17+10log(B)=	29.75	PASS
		106/54	15.76	-0.540	15.22	33.250	30	or 17+10log(B)=	29.75	PASS
		full	15.67	-0.540	15.13	32.588	30	or 17+10log(B)=	29.76	PASS
100	5500	26/0	14.98	-0.540	14.44	27.815	30	or 17+10log(B)=	29.76	PASS
100	3300	52/37	15.96	-0.540	15.42	34.826	30	or 17+10log(B)=	29.76	PASS
		106/53	15.99	-0.540	15.45	35.055	30	or 17+10log(B)=	29.76	PASS
116	5580	full	15.95	-0.540	15.41	34.792	30	or 17+10log(B)=	29.76	PASS
		full	15.73	-0.540	15.19	33.047	30	or 17+10log(B)=	29.76	PASS
140	5700	26/8	14.98	-0.540	14.44	27.793	30	or 17+10log(B)=	29.76	PASS
140	3700	52/40	15.99	-0.540	15.45	35.072	30	or 17+10log(B)=	29.76	PASS
		106/54	15.99	-0.540	15.45	35.094	30	or 17+10log(B)=	29.76	PASS

802.11ax\_40\_Ch0

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	full	12.98	-5.000	7.98	6.281	23.01	or 10+10log(B)=	25.75	PASS
38	5190	242/61	12.81	-5.000	7.81	6.039	23.01	or 10+10log(B)=	25.75	PASS
46	5230	full	12.96	-5.000	7.96	6.252	23.01	or 10+10log(B)=	25.75	PASS
54	5270	full	12.92	-5.000	7.92	6.194	30	or 17+10log(B)=	32.75	PASS
<b>C</b> 2	F240	full	12.81	-5.000	7.81	6.039	30	or 17+10log(B)=	32.76	PASS
62	5310	242/62	12.91	-5.000	7.91	6.180	30	or 17+10log(B)=	32.76	PASS
100	FF10	full	12.97	-5.000	7.97	6.266	30	or 17+10log(B)=	32.76	PASS
102	5510	242/61	12.67	-5.000	7.67	5.848	30	or 17+10log(B)=	32.76	PASS
110	5550	full	12.99	-5.000	7.99	6.295	30	or 17+10log(B)=	32.75	PASS
124	F.C.7.0	full	12.97	-5.000	7.97	6.266	30	or 17+10log(B)=	32.75	PASS
134	5670	242/62	12.84	-5.000	7.84	6.081	30	or 17+10log(B)=	32.75	PASS

## 802.11ax\_40\_Ch1

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	full	12.96	-2.300	10.66	11.641	23.01	or 10+10log(B)=	25.75	PASS
30	3190	242/61	12.81	-2.300	10.51	11.246	23.01	or 10+10log(B)=	25.75	PASS
46	5230	full	12.72	-2.300	10.42	11.015	23.01	or 10+10log(B)=	25.75	PASS
54	5270	full	12.73	-2.300	10.43	11.041	30	or 17+10log(B)=	32.75	PASS
62	5310	full	12.77	-2.300	10.47	11.143	30	or 17+10log(B)=	32.76	PASS
62	5310	242/62	12.98	-2.300	10.68	11.695	30	or 17+10log(B)=	32.76	PASS
102	FF10	full	12.56	-2.300	10.26	10.617	30	or 17+10log(B)=	32.76	PASS
102	5510	242/61	12.88	-2.300	10.58	11.429	30	or 17+10log(B)=	32.76	PASS
110	5550	full	12.86	-2.300	10.56	11.376	30	or 17+10log(B)=	32.77	PASS
124	5670	full	12.89	-2.300	10.59	11.455	30	or 17+10log(B)=	32.76	PASS
134	50/0	242/62	12.97	-2.300	10.67	11.668	30	or 17+10log(B)=	32.76	PASS

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## 802.11ax\_40\_MIMO

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	full	15.99	-0.540	15.45	35.115	23.01	or 10+10log(B)=	25.75	PASS
38	5190	242/61	15.99	-0.540	15.45	35.076	23.01	or 10+10log(B)=	25.75	PASS
46	5230	full	15.97	-0.540	15.43	34.922	23.01	or 10+10log(B)=	25.75	PASS
54	5270	full	15.95	-0.540	15.41	34.793	30	or 17+10log(B)=	32.75	PASS
63	F240	full	15.91	-0.540	15.37	34.443	30	or 17+10log(B)=	32.76	PASS
62	5310	242/62	15.92	-0.540	15.38	34.540	30	or 17+10log(B)=	32.76	PASS
103	FF10	full	15.64	-0.540	15.10	32.360	30	or 17+10log(B)=	32.76	PASS
102	5510	242/61	15.70	-0.540	15.16	32.775	30	or 17+10log(B)=	32.76	PASS
110	5550	full	15.81	-0.540	15.27	33.632	30	or 17+10log(B)=	32.75	PASS
124	F.C.7.0	full	15.74	-0.540	15.20	33.106	30	or 17+10log(B)=	32.75	PASS
134	5670	242/62	15.72	-0.540	15.18	32.946	30	or 17+10log(B)=	32.75	PASS

802.11ax 80 Ch0

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
42	5210	full	12.76	-5.000	7.76	5.970	23.01	or 10+10log(B)=	28.87	PASS
42	3210	484/65	12.88	-5.000	7.88	6.138	23.01	or 10+10log(B)=	28.87	PASS
58	5290	full	12.75	-5.000	7.75	5.957	30	or 17+10log(B)=	35.87	PASS
58	5290	484/66	12.82	-5.000	7.82	6.053	30	or 17+10log(B)=	35.87	PASS
106	5530	full	12.99	-5.000	7.99	6.295	30	or 17+10log(B)=	35.87	PASS
106	5530	484/65	12.97	-5.000	7.97	6.266	30	or 17+10log(B)=	35.87	PASS

802.11ax\_80\_Ch1

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
42	F210	full	12.72	-2.300	10.42	11.015	23.01	or 10+10log(B)=	28.86	PASS
42	5210	484/65	12.88	-2.300	10.58	11.429	23.01	or 10+10log(B)=	28.86	PASS
58	5290	full	12.70	-2.300	10.40	10.965	30	or 17+10log(B)=	35.87	PASS
58	5290	484/66	12.84	-2.300	10.54	11.324	30	or 17+10log(B)=	35.87	PASS
106	5530	full	12.96	-2.300	10.66	11.641	30	or 17+10log(B)=	35.88	PASS
100	5530	484/65	12.95	-2.300	10.65	11.614	30	or 17+10log(B)=	35.88	PASS

802.11ax\_80\_MIMO

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
42	5210	full	15.99	-0.540	15.45	35.086	23.01	or 10+10log(B)=	28.86	PASS
42	5210	484/65	15.88	-0.540	15.34	34.166	23.01	or 10+10log(B)=	28.86	PASS
58	5290	full	15.96	-0.540	15.42	34.867	30	or 17+10log(B)=	35.87	PASS
58	5290	484/66	15.89	-0.540	15.35	34.275	30	or 17+10log(B)=	35.87	PASS
100	FF20	full	15.78	-0.540	15.24	33.396	30	or 17+10log(B)=	35.87	PASS
106	5530	484/65	15.70	-0.540	15.16	32.780	30	or 17+10log(B)=	35.87	PASS

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### 9.5.3 Conducted output power (ISED)

## 802.11a Ch0

<u> </u>	••						
СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
52	5260	12.93	19.650	23.98	or 11+10log(B) =	23.13	PASS
60	5300	12.96	19.786	23.98	or 11+10log(B) =	23.13	PASS
64	5320	12.93	19.650	23.98	or 11+10log(B) =	23.13	PASS
100	5500	12.98	19.878	23.98	or 11+10log(B) =	23.13	PASS
116	5580	12.95	19.741	23.98	or 11+10log(B) =	23.13	PASS
140	5700	12.93	19.650	23.98	or 11+10log(B) =	23.13	PASS
144	5720(U-NII 2C)	11.83	15.235	23.98	or 11+10log(B) =	23.13	PASS
144	5720 (U-NII 3)	6.54	4.506		30		PASS
149	5745	12.96	19.786		30		PASS
157	5785	12.95	19.741		30	·	PASS
165	5825	12.99	19.923		30		PASS

## 802.11n\_HT20\_Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
52	5260	12.81	19.099	23.98	or 11+10log(B) =	23.44	PASS
60	5300	12.98	19.861	23.98	or 11+10log(B) =	23.44	PASS
64	5320	12.99	19.907	23.98	or 11+10log(B) =	23.44	PASS
100	5500	12.89	19.454	23.98	or 11+10log(B) =	23.44	PASS
116	5580	12.87	19.364	23.98	or 11+10log(B) =	23.44	PASS
140	5700	12.94	19.679	23.98	or 11+10log(B) =	23.44	PASS
144	5720(U-NII 2C)	11.61	14.484	23.98	or 11+10log(B) =	23.44	PASS
144	5720 (U-NII 3)	6.76	4.747		30		PASS
149	5745	12.92	19.588		30		PASS
157	5785	12.98	19.861		30		PASS
165	5825	12.99	19.907		30		PASS

## 802.11n\_HT20\_Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
52	5260	12.54	17.947	23.98	or 11+10log(B) =	23.44	PASS
60	5300	12.81	19.099	23.98	or 11+10log(B) =	23.44	PASS
64	5320	12.79	19.011	23.98	or 11+10log(B) =	23.44	PASS
100	5500	12.44	17.539	23.98	or 11+10log(B) =	23.44	PASS
116	5580	12.72	18.707	23.98	or 11+10log(B) =	23.43	PASS
140	5700	12.63	18.323	23.98	or 11+10log(B) =	23.44	PASS
144	5720(U-NII 2C)	11.51	14.170	23.98	or 11+10log(B) =	23.44	PASS
144	5720 (U-NII 3)	6.61	4.580		30		PASS
149	5745	12.58	18.113		30		PASS
157	5785	12.64	18.365		30		PASS
165	5825	12.67	18.493		30		PASS

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## 802.11n\_HT20\_MIMO

СН	Frequency	А	VERAGE PO	OWER (dBn	n)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
	(MHz)	CH 0	CH 1	CH 2	СНЗ	(dBm)	(mW)		(dBm)		REGOLI
52	5260	11.61	13.35	0	0	15.58	36.115	23.98	or 11+10log(B) =	23.44	PASS
60	5300	11.71	13.27	0	0	15.57	36.058	23.98	or 11+10log(B) =	23.44	PASS
64	5320	11.61	13.41	0	0	15.61	36.416	23.98	or 11+10log(B) =	23.44	PASS
100	5500	11.74	13.22	0	0	15.55	35.917	23.98	or 11+10log(B) =	23.44	PASS
116	5580	11.91	13.72	0	0	15.92	39.074	23.98	or 11+10log(B) =	23.43	PASS
140	5700	11.8	13.14	0	0	15.53	35.742	23.98	or 11+10log(B) =	23.44	PASS
144	5720(U-NII 2C)	10.7389	12.00381			14.43	27.718	23.98	or 11+10log(B) =	23.44	PASS
144	5720 (U-NII 3)	5.894075	7.098266			9.55	9.012		30		PASS
149	5745	11.98	13.4	0	0	15.76	37.654		30		PASS
157	5785	11.93	13.37	0	0	15.72	37.323		30		PASS
165	5825	12.05	13.23	0	0	15.69	37.070		30		PASS

# 802.11n HT40 Ch0

002:1111_11	1.10_0.10						
СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
54	5270	12.72	18.707	23.98	or 11+10log(B) =	26.56	PASS
62	5310	12.90	19.498	23.98	or 11+10log(B) =	26.56	PASS
102	5510	12.99	19.907	23.98	or 11+10log(B) =	26.56	PASS
110	5550	12.97	19.815	23.98	or 11+10log(B) =	26.56	PASS
134	5670	12.94	19.679	23.98	or 11+10log(B) =	26.56	PASS
142	5710(U-NII 2C)	12.41	17.429	23.98	or 11+10log(B) =	26.56	PASS
142	5710 (U-NII 3)	3.69	2.341		30		PASS
151	5755	12.98	19.861		30	·	PASS
159	5795	12.97	19.815		30	·	PASS

## 802.11n\_HT40\_Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
54	5270	12.68	18.535	23.98	or 11+10log(B) =	26.56	PASS
62	5310	12.54	17.947	23.98	or 11+10log(B) =	26.56	PASS
102	5510	12.57	18.072	23.98	or 11+10log(B) =	26.56	PASS
110	5550	12.56	18.030	23.98	or 11+10log(B) =	26.56	PASS
134	5670	12.59	18.155	23.98	or 11+10log(B) =	26.56	PASS
142	5710(U-NII 2C)	12.36	17.235	23.98	or 11+10log(B) =	26.56	PASS
142	5710 (U-NII 3)	3.37	2.174		30		PASS
151	5755	12.81	19.099		30		PASS
159	5795	12.84	19.231		30	·	PASS

# 802.11n\_HT40\_MIMO

СН	Frequency	А	VERAGE PO	OWER (dBn	1)	TOTAL	TOTAL POWER	REQUIRED LIMIT			RESULT
Cn	(MHz)	CH 0	CH 1	CH 2	СНЗ	(dBm)	(mW)		(dBm)		RESULT
54	5270	11.65	13.42	0	0	15.63	36.600	23.98	or 11+10log(B) =	26.56	PASS
62	5310	11.46	13.57	0	0	15.65	36.747	23.98	or 11+10log(B) =	26.56	PASS
102	5510	12.01	13.25	0	0	15.68	37.020	23.98	or 11+10log(B) =	26.56	PASS
110	5550	12.07	13.6	0	0	15.91	39.015	23.98	or 11+10log(B) =	26.56	PASS
134	5670	12.02	13.39	0	0	15.77	37.749	23.98	or 11+10log(B) =	26.56	PASS
142	5710(U-NII 2C)	11.48263	12.52412			15.04	31.951	23.98	or 11+10log(B) =	26.56	PASS
142	5710 (U-NII 3)	2.764166	3.53226			6.18	4.145		30		PASS
151	5755	12.28	13.52	0	0	15.95	39.395		30		PASS
159	5795	12.22	13.45	0	0	15.89	38.803		30		PASS

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# 802.11ac VHT80 Ch0

OUZ. I IUO	_*11100_0110						
СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
58	5290	12.72	18.707	23.98	or 11+10log(B) =	29.78	PASS
106	5530	12.95	19.724	23.98	or 11+10log(B) =	29.77	PASS
122	5610	12.98	19.861	23.98	or 11+10log(B) =	29.77	PASS
138	5690(U-NII 2C)	12.67	18.473	23.98	or 11+10log(B) =	29.77	PASS
138	5690 (U-NII 3)	1.28	1.342		30		PASS
155	5775	12.98	19.861		30		PASS

## 802.11ac VHT80 Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
58	5290	12.68	18.535	23.98	or 11+10log(B) =	29.77	PASS
106	5530	12.91	19.543	23.98	or 11+10log(B) =	29.77	PASS
122	5610	12.62	18.281	23.98	or 11+10log(B) =	29.77	PASS
138	5690(U-NII 2C)	12.27	16.872	23.98	or 11+10log(B) =	29.77	PASS
138	5690 (U-NII 3)	0.79	1.200		30	·	PASS
155	5775	12.75	18.836		30		PASS

## 802.11ac\_VHT80\_MIMO

СН	Frequency	A	VERAGE PO	OWER (dBn	n)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
OII	(MHz)	CH 0	CH 1	CH 2	СНЗ	(dBm)	(mW)		(dBm)		REGOLI
58	5290	11.66	13.25	0	0	15.54	35.790	23.98	or 11+10log(B) =	29.77	PASS
106	5530	11.78	13.53	0	0	15.75	37.608	23.98	or 11+10log(B) =	29.77	PASS
122	5610	12.05	13.73	0	0	15.98	39.637	23.98	or 11+10log(B) =	29.77	PASS
138	5690(U-NII 2C)	11.74537	13.1716			15.53	35.703	23.98	or 11+10log(B) =	29.77	PASS
138	5690 (U-NII 3)	0.358525	1.691836			4.09	2.562		30		PASS
155	5775	12.15	13.64	0	0	15.97	39.527		30		PASS

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## 802.11ax 20 Ch0

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
52	5260	full	12.83	19.187	23.98	or 11+10log(B) =	23.75	PASS
60	5300	full	12.82	19.143	23.98	or 11+10log(B) =	23.77	PASS
		full	12.85	19.275	23.98	or 11+10log(B) =	23.76	PASS
64	5320	26/8	11.74	14.928	23.98	or 11+10log(B) =	23.76	PASS
04	5320	52/40	12.88	19.409	23.98	or 11+10log(B) =	23.76	PASS
		106/54	12.95	19.724	23.98	or 11+10log(B) =	23.76	PASS
		full	12.97	19.815	23.98	or 11+10log(B) =	23.76	PASS
100	FF00	26/0	11.94	15.631	23.98	or 11+10log(B) =	23.76	PASS
100	5500	52/37	12.86	19.320	23.98	or 11+10log(B) =	23.76	PASS
		106/53	12.97	19.815	23.98	or 11+10log(B) =	23.76	PASS
116	5580	full	12.93	19.634	23.98	or 11+10log(B) =	23.76	PASS
		full	12.92	19.588	23.98	or 11+10log(B) =	23.76	PASS
140	5700	26/8	11.94	15.631	23.98	or 11+10log(B) =	23.76	PASS
140	3700	52/40	12.94	19.679	23.98	or 11+10log(B) =	23.76	PASS
		106/54	12.76	18.880	23.98	or 11+10log(B) =	23.76	PASS
144	5720(U-NII 2C)	full	11.70	14.791	23.98	or 11+10log(B) =	23.76	PASS
144	5720 (U-NII 3)	full	7.01	5.025		30		PASS
		full	12.99	19.907		30		PASS
149	5745	26/0	11.81	15.171		30		PASS
149	3743	52/37	12.72	18.707		30		PASS
		106/53	12.81	19.099		30		PASS
157	5785	full	12.98	19.861		30		PASS
		full	12.81	19.099		30		PASS
165	EOJE	26/8	11.81	15.171		30		PASS
165	5825	52/40	12.81	19.099		30		PASS
		106/54	12.93	19.634		30		PASS

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# 802.11ax\_20\_Ch1

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
52	5260	full	12.65	18.408	23.98	or 11+10log(B) =	23.76	PASS
60	5300	full	12.51	17.824	23.98	or 11+10log(B) =	23.76	PASS
		full	12.67	18.493	23.98	or 11+10log(B) =	23.75	PASS
6.4	F220	26/8	11.95	15.668	23.98	or 11+10log(B) =	23.75	PASS
64	5320	52/40	12.75	18.836	23.98	or 11+10log(B) =	23.75	PASS
		106/54	12.82	19.143	23.98	or 11+10log(B) =	23.75	PASS
		full	12.60	18.197	23.98	or 11+10log(B) =	23.76	PASS
100	FF00	26/0	11.84	15.276	23.98	or 11+10log(B) =	23.76	PASS
100	5500	52/37	12.89	19.454	23.98	or 11+10log(B) =	23.76	PASS
		106/53	12.94	19.679	23.98	or 11+10log(B) =	23.76	PASS
116	5580	full	12.77	18.923	23.98	or 11+10log(B) =	23.76	PASS
		full	12.77	18.923	23.98	or 11+10log(B) =	23.76	PASS
140	5700	26/8	11.85	15.311	23.98	or 11+10log(B) =	23.76	PASS
140	3700	52/40	12.91	19.543	23.98	or 11+10log(B) =	23.76	PASS
		106/54	12.93	19.634	23.98	or 11+10log(B) =	23.76	PASS
144	5720(U-NII 2C)	full	11.64	14.593	23.98	or 11+10log(B) =	23.76	PASS
144	5720 (U-NII 3)	full	6.99	4.995		30		PASS
		full	12.78	18.967		30		PASS
140	F74F	26/0	11.97	15.740		30		PASS
149	5745	52/37	12.99	19.907		30		PASS
		106/53	12.65	18.408		30		PASS
157	5785	full	12.77	18.923		30		PASS
		full	12.77	18.923		30		PASS
165	гоэг	26/8	11.79	15.101		30		PASS
165	5825	52/40	12.81	19.099		30		PASS
		106/54	12.91	19.543		30		PASS

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## 802.11ax 20 MIMO

СН	Frequency	RU config.		E POWER Bm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
OII	(MHz)	No comig.	CH 0	CH 1	(dBm)	(mW)		(dBm)		REGOLI
52	5260	full	11.95	13.68	15.91	39.002	23.98	or 11+10log(B) =	23.75	PASS
60	5300	full	11.8	13.41	15.69	37.064	23.98	or 11+10log(B) =	23.76	PASS
		full	11.78	13.51	15.74	37.505	23.98	or 11+10log(B) =	23.75	PASS
64	5320	26/8	11.4	12.49	14.99	31.546	23.98	or 11+10log(B) =	23.75	PASS
04	5520	52/40	12.46	13.42	15.98	39.598	23.98	or 11+10log(B) =	23.75	PASS
		106/54	12.23	13.21	15.76	37.652	23.98	or 11+10log(B) =	23.75	PASS
		full	11.84	13.35	15.67	36.903	23.98	or 11+10log(B) =	23.76	PASS
100	5500	26/0	11.63	12.29	14.98	31.498	23.98	or 11+10log(B) =	23.76	PASS
100	3300	52/37	12.59	13.28	15.96	39.437	23.98	or 11+10log(B) =	23.76	PASS
		106/53	12.64	13.29	15.99	39.696	23.98	or 11+10log(B) =	23.76	PASS
116	5580	full	11.97	13.74	15.95	39.399	23.98	or 11+10log(B) =	23.76	PASS
		full	11.93	13.39	15.73	37.423	23.98	or 11+10log(B) =	23.76	PASS
140	5700	26/8	11.68	12.24	14.98	31.473	23.98	or 11+10log(B) =	23.76	PASS
140	3700	52/40	12.55	13.37	15.99	39.716	23.98	or 11+10log(B) =	23.76	PASS
		106/54	12.58	13.35	15.99	39.741	23.98	or 11+10log(B) =	23.76	PASS
144	5720(U-NII 2C)	full	10.58987	12.08143	14.41	27.604	23.98	or 11+10log(B) =	23.76	PASS
144	5720 (U-NII 3)	full	5.901033	7.425777	9.74	9.420		30		PASS
		full	12.07	13.54	15.88	38.701		30		PASS
149	5745	26/0	11.21	12.06	14.67	29.282		30		PASS
149	3743	52/37	12.25	13.12	15.72	37.300		30		PASS
		106/53	12.39	13.09	15.76	37.708		30		PASS
157	5785	full	12.05	13.42	15.80	38.011		30		PASS
		full	12.15	13.41	15.84	38.334		30		PASS
165	5825	26/8	11.41	12.49	14.99	31.578		30		PASS
100	3623	52/40	12.58	13.33	15.98	39.641		30		PASS
		106/54	12.26	13.12	15.72	37.338		30		PASS

# 802.11ax 40 Ch0

	_+0_0110							
СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
54	5270	full	12.92	19.588	23.98	or 11+10log(B) =	26.75	PASS
62	F210	full	12.81	19.099	23.98	or 11+10log(B) =	26.76	PASS
62	5310	242/62	12.91	19.543	23.98	or 11+10log(B) =	26.76	PASS
102	FF10	full	12.97	19.815	23.98	or 11+10log(B) =	26.76	PASS
102	5510	242/61	12.67	18.493	23.98	or 11+10log(B) =	26.76	PASS
110	5550	full	12.99	19.907	23.98	or 11+10log(B) =	26.75	PASS
124	F670	full	12.97	19.815	23.98	or 11+10log(B) =	26.75	PASS
134	5670	242/62	12.84	19.231	23.98	or 11+10log(B) =	26.75	PASS
142	5710(U-NII 2C)	full	12.40	17.381	23.98	or 11+10log(B) =	26.76	PASS
142	5710 (U-NII 3)	full	4.02	2.525		30		PASS
151	F7FF	full	12.96	19.770		30		PASS
151	5755	242/61	12.94	19.679		30		PASS
150	F70F	full	12.98	19.861	·	30	•	PASS
159	5795	242/62	12.90	19.498		30		PASS

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## 802.11ax\_40\_Ch1

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
54	5270	full	12.73	18.750	23.98	or 11+10log(B) =	26.75	PASS
62	F210	full	12.77	18.923	23.98	or 11+10log(B) =	26.76	PASS
62	5310	242/62	12.98	19.861	23.98	or 11+10log(B) =	26.76	PASS
102	FF10	full	12.56	18.030	23.98	or 11+10log(B) =	26.76	PASS
102	5510	242/61	12.88	19.409	23.98	or 11+10log(B) =	26.76	PASS
110	5550	full	12.86	19.320	23.98	or 11+10log(B) =	26.77	PASS
124	F670	full	12.89	19.454	23.98	or 11+10log(B) =	26.76	PASS
134	5670	242/62	12.97	19.815	23.98	or 11+10log(B) =	26.76	PASS
142	5710(U-NII 2C)	full	12.27	16.874	23.98	or 11+10log(B) =	26.76	PASS
142	5710 (U-NII 3)	full	3.72	2.357		30		PASS
151	F7FF	full	12.82	19.143		30		PASS
151	5755	242/61	12.73	18.750		30		PASS
150	F70F	full	12.81	19.099		30		PASS
159	5795	242/62	12.99	19.907		30		PASS

802.11ax 40 MIMO

СН	Frequency	RU config.	Α	VERAGE PO	OWER (dBn	n)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
CII	(MHz)	Ro comig.	CH 0	CH 1	CH 2	СНЗ	(dBm)	(mW)		(dBm)		KESOLI
54	5270	full	11.94	13.76	0	0	15.95	39.400	23.98	or 11+10log(B) =	26.75	PASS
<b>C</b> 2	F210	full	11.89	13.72	0	0	15.91	39.003	23.98	or 11+10log(B) =	26.76	PASS
62	5310	242/62	12.3	13.45	0	0	15.92	39.113	23.98	or 11+10log(B) =	26.76	PASS
102	FF10	full	11.96	13.21	0	0	15.64	36.645	23.98	or 11+10log(B) =	26.76	PASS
102	5510	242/61	12.47	12.89	0	0	15.70	37.114	23.98	or 11+10log(B) =	26.76	PASS
110	5550	full	12.07	13.42	0	0	15.81	38.085	23.98	or 11+10log(B) =	26.75	PASS
134	5670	full	11.99	13.36	0	0	15.74	37.490	23.98	or 11+10log(B) =	26.75	PASS
134	5670	242/62	12.44	12.96	0	0	15.72	37.309	23.98	or 11+10log(B) =	26.75	PASS
142	5710(U-NII 2C)	full	11.82081	12.91224			15.41	34.762	23.98	or 11+10log(B) =	26.76	PASS
142	5710 (U-NII 3)	full	3.443441	4.363011			6.94	4.941		30		PASS
151	F7FF	full	12.08	13.49	0	0	15.85	38.479		30		PASS
151	5755	242/61	12.3	13.39	0	0	15.89	38.810		30	·	PASS
150	E70E	full	12.23	13.44	0	0	15.89	38.791		30	•	PASS
159	5795	242/62	12.41	13.22	0	0	15.84	38.407		30	·	PASS

## 802.11ax 80 Ch0

OUZ. I TUX								
СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
го	5290	full	12.75	18.836	23.98	or 11+10log(B) =	29.87	PASS
58	5290	484/66	12.82	19.143	23.98	or 11+10log(B) =	29.87	PASS
100	FF30	full	12.99	19.907	23.98	or 11+10log(B) =	29.87	PASS
106	5530	484/65	12.97	19.815	23.98	or 11+10log(B) =	29.87	PASS
122	5610	full	12.97	19.815	23.98	or 11+10log(B) =	29.86	PASS
138	5690(U-NII 2C)	full	12.66	18.459	23.98	or 11+10log(B) =	29.87	PASS
138	5690 (U-NII 3)	full	1.47	1.402		30		PASS
		full	12.99	19.907		30		PASS
155	5775	484/65	12.81	19.099		30		PASS
		484/66	12.93	19.634		30		PASS

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## 802.11ax 80 Ch1

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
58	5290	full	12.70	18.621	23.98	or 11+10log(B) =	29.87	PASS
58	5290	484/66	12.84	19.231	23.98	or 11+10log(B) =	29.87	PASS
100	EE30	full	12.96	19.770	23.98	or 11+10log(B) =	29.88	PASS
106	5530	484/65	12.95	19.724	23.98	or 11+10log(B) =	29.88	PASS
122	5610	full	12.61	18.239	23.98	or 11+10log(B) =	29.86	PASS
138	5690(U-NII 2C)	full	12.21	16.634	23.98	or 11+10log(B) =	29.88	PASS
138	5690 (U-NII 3)	full	0.76	1.190		30		PASS
		full	12.67	18.493		30		PASS
155	5775	484/65	12.88	19.409		30		PASS
		484/66	12.81	19.099		30		PASS

802.11ax\_80\_MIMO

СН	Frequency	RU config.	AVERAGE POWER (dBm)				TOTAL POWER	TOTAL POWER	REQUIRED LIMIT			RESULT
OII	(MHz)	No comig.	CH 0 CH 1 CH 2 CH3 (dBm) (mW) (dBm)		KEOOLI							
Ε0.	F200	full	12.11	13.66	0	0	15.96	39.483	23.98	or 11+10log(B) =	29.87	PASS
58	58 5290	484/66	12.51	13.22	0	0	15.89	38.813	23.98	or 11+10log(B) =	29.87	PASS
106	106 5530	full	11.84	13.53	0	0	15.78	37.818	23.98	or 11+10log(B) =	29.87	PASS
100	5550	484/65	12.3	13.04	0	0	15.70	37.120	23.98	or 11+10log(B) =	29.87	PASS
122	5610	full	12.04	13.48	0	0	15.83	38.280	23.98	or 11+10log(B) =	29.86	PASS
138	5690(U-NII 2C)	full	11.712	13.13985			15.49	35.438	23.98	or 11+10log(B) =	29.87	PASS
138	5690 (U-NII 3)	full	0.518344	1.686338			4.15	2.601		30		PASS
		full	12.16	13.61	0	0	15.96	39.405		30		PASS
155	5775	484/65	12.27	13.54	0	0	15.96	39.460		30		PASS
		484/66	12.26	13.27	0	0	15.80	38.059		30		PASS

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# 10 MAXIMUM POWER SPECTRAL DENSITY

#### Standard Applicable 10.1

## **FCC**

OPERZTION Band	EUT CATEGORY	LIMIT
	Access Point (Master device )	17dBm/ MHz
U-NII-1	Fixed point-to-point Access Ponit	17 dBill/ WillZ
	 Mobile and portable client device	11dBm/ MHz
U-NII-2A		11dBm/ MHz
U-NII-2C		11dBm/ MHz
U-NII-3		30dBm/ 500kHz

If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

## **ISED**

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP spectral density 10 dBm / MHz
5250~5350 MHz	11dBm / MHz
5470-5600 MHz and 5650-5725 MHz	11dBm / MHz
5725~5850 MHz	30dBm / 500 kHz

For equipment operating in the band **5725-5850** MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

## 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.

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

## 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;  $\hat{G}_k$  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.

#### 10.2 **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 (601 pts), detector = sample, 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≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.

Set RBW=500kHz, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.

- 5. User the cursor on spectrum to peak search the highest level of trace
- 6. 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.
- 8. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure the PSD for MIMO mode. Offset = cable loss +  $10 \log (N)$ , where N is number of transmitting antenna.

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 on this report 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

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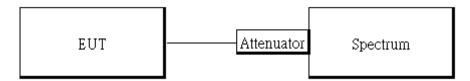


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### 10.3 **Measurement Equipment Used**

	SGS Conducted Room										
Name of Equip- ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due						
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021						
DC Power Sup- ply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021						
DC Power Sup- ply	Agilent	E3640A	KR93300208	08/19/2020	08/18/2021						
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021						
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021						

### Test Set-up 10.4



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## 10.5 Measurement Result

## 10.5.1 Power spectral density

1 Ower spec		 ER DENSITY	/ 802.11a MODE				
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit		Margin (dB)
5180.00	1.50	0.00	1.	50	11.00	dBm/MHz	-9.50
5220.00	0.87	0.00	0.	87	11.00	dBm/MHz	-10.13
5240.00	0.48	0.00	0.	48	11.00	dBm/MHz	-10.52
5260.00	0.11	0.00	0.	11	11.00	dBm/MHz	-10.89
5300.00	0.74	0.00	0.74		11.00	dBm/MHz	-10.26
5320.00	0.43	0.00	0.43		11.00	dBm/MHz	-10.57
5500.00	0.32	0.00	0.32		11.00	dBm/MHz	-10.68
5580.00	-0.13	0.00	-0.	13	11.00	dBm/MHz	-11.13
5700.00	0.13	0.00	0.	13	11.00	dBm/MHz	-10.87
5720 (U-NII 2C)	1.27	0.00	1.3	27	11.00	dBm/MHz	-9.73
Frequency (MHz)	ch0 meas PSD (dBm/300kH z)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500 kHz)	_	Limit	Margin (dB)
5720 (U-NII 3)	-3.98	0.00	2.22	-1.76	30.00	dBm/500kHz	-31.76
5745.00	-3.98	0.00	2.22	-1.76	30.00	dBm/500kHz	-31.76
5785.00	-3.82	0.00	2.22	-1.60	30.00	dBm/500kHz	-31.60
5825.00	-4.16	0.00	2.22	-1.94	30.00	dBm/500kHz	-31.94

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-		POWER	DENSITY 8	02.11n HT20 MC	ODF		
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)		PSD(dBm/MHz)	Limit	Margin (dB)
5180.00	-0.07	1.20	0.00	3.	62	11.00 dBm/MHz	-7.38
5220.00	0.32	0.45	0.00	3.	40	11.00 dBm/MHz	-7.60
5240.00	-0.43	0.46	0.00	3.	05	11.00 dBm/MHz	-7.95
5260.00	-0.39	0.18	0.00	2.	91	11.00 dBm/MHz	-8.09
5300.00	-0.55	-0.28	0.00	2.	60	11.00 dBm/MHz	-8.40
5320.00	-1.02	-0.06	0.00	2.	50	11.00 dBm/MHz	-8.50
5500.00	-0.98	-0.09	0.00	2.	50	11.00 dBm/MHz	-8.50
5580.00	-0.94	0.48	0.00	2.	84	11.00 dBm/MHz	-8.16
5700.00	-1.08	0.73	0.00	2.	93	11.00 dBm/MHz	-8.07
5720 (U-NII 2C)	0.02	0.18	0.00	3.	11	11.00 dBm/MHz	-7.89
Frequency (MHz)	ch0 meas PSD (dBm/300kH z)	ch1 meas PSD (dBm/300kH z)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)  Total Corr'd PSD(dBm/500 kHz)		Limit	Margin (dB)
5720 (U-NII 3)	-5.94	-5.57	0.00	2.22	-0.52	30.00 dBm/500kHz	-30.52
5745.00	-5.30	-4.72	0.00	2.22	0.23	30.00 dBm/500kHz	-29.77
5785.00	-5.30	-4.82	0.00	2.22	0.18	30.00 dBm/500kHz	-29.82
5825.00	-5.23	-4.72	0.00	2.22	0.26	30.00 dBm/500kHz	-29.74
	_	POWER	DENSITY 8	02.11n HT40 MC	DDE		
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd F	PSD(dBm/MHz)	Limit	Margin (dB)
5190.00	-2.84	-1.96	0.00	0.	63	11.00 dBm/MHz	-10.37
5230.00	-3.57	-2.27	0.00	0.	14	11.00 dBm/MHz	-10.86
5270.00	-3.54	-2.62	0.00	-0.05		11.00 dBm/MHz	-11.05
5310.00	-3.73	-3.07	0.00	-0.	.38	11.00 dBm/MHz	-11.38
5510.00	-3.65	-2.21	0.00	0.	14	11.00 dBm/MHz	-10.86
5550.00	-3.00	-2.88	0.00	0.	07	11.00 dBm/MHz	-10.93
5670.00	-3.58	-2.54	0.00	-0.02		11.00 dBm/MHz	-11.02
5710 (U-NII 2C)	-3.50	-3.48	0.00	-0.48		11.00 dBm/MHz	-11.48
Frequency (MHz)	ch0 meas PSD (dBm/300kH z)	ch1 meas PSD (dBm/300kH z)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500 kHz)	Limit	Margin (dB)
5710 (U-NII 3)	-9.88	-10.16	0.00	2.22	-4.79	30.00 dBm/500kHz	-34.79
5755.00	-8.08	-7.27	0.00	2.22	-2.43	30.00 dBm/500kHz	-32.43
5795.00	-7.96	-7.56	0.00	2.22	-2.53	30.00 dBm/500kHz	-32.53

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		POWER I	DENSITY 802	2.11ac VHT80 M	IODE			
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		orr'd PSD(dBm/MHz) Limit		Margin (dB)
5210.00	-5.75	-5.35	0.00	-2.	54	11.00	dBm/MHz	-13.54
5290.00	-6.46	-5.71	0.00	-3.06		11.00	dBm/MHz	-14.06
5530.00	-6.16	-5.31	0.00	-2.70		11.00	dBm/MHz	-13.70
5610.00	-6.46	-5.23	0.00	-2.	-2.79		dBm/MHz	-13.79
5690 (U-NII 2C)	-5.59	-5.60	0.00	-2.	58	11.00	dBm/MHz	-13.58
Frequency (MHz)	ch0 meas PSD (dBm/300kH z)	ch1 meas PSD (dBm/300kH z)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500 kHz)		Limit	Margin (dB)
5690 (U-NII 3)	-11.93	-11.84	0.00	2.22	-6.65	30.00	dBm/500kHz	-36.65
5775.00	-10.79	-9.74	0.00	2.22	-5.00	30.00	dBm/500kHz	-35.00

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			POWER	R DENSITY 8	302.11ax 20 MO	DE		
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd F	SD(dBm/MHz)	Limit	Margin (dB)
	full	-0.44	0.62	0.00	3.	13	11.00 dBm/MHz	-7.87
5180	26/0	6.80	8.00	0.00	10.45		11.00 dBm/MHz	-0.55
3100	52/37	6.09	6.57	0.00	9.	35	11.00 dBm/MHz	-1.65
	106/53	3.26	3.99	0.00	6.	65	11.00 dBm/MHz	-4.35
5220	full	-0.82	0.23	0.00	2.	75	11.00 dBm/MHz	-8.25
5240	full	-0.93	0.61	0.00	2.	92	11.00 dBm/MHz	-8.08
5260	full	-0.69	0.28	0.00	2.	83	11.00 dBm/MHz	-8.17
5300	full	-1.25	0.02	0.00	2.	44	11.00 dBm/MHz	-8.56
	full	-1.28	-0.16	0.00	2.	33	11.00 dBm/MHz	-8.67
5320	26/8	5.50	5.01	0.00	8.	27	11.00 dBm/MHz	-2.73
3320	52/40	5.12	6.28	0.00	8.75		11.00 dBm/MHz	-2.25
	106/54	1.96	3.11	0.00	5.58		11.00 dBm/MHz	-5.42
	full	-0.87	0.12	0.00	2.	66	11.00 dBm/MHz	-8.34
5500	26/0	6.32	6.42	0.00	9.	38	11.00 dBm/MHz	-1.62
5500	52/37	6.01	5.86	0.00	8.	95	11.00 dBm/MHz	-2.05
	106/53	2.60	3.42	0.00	6.	04	11.00 dBm/MHz	-4.96
5580	full	-0.59	0.06	0.00	2.	76	11.00 dBm/MHz	-8.24
	full	-1.44	-0.34	0.00	2.16		11.00 dBm/MHz	-8.84
5700	26/8	5.36	5.39	0.00	8.39		11.00 dBm/MHz	-2.61
3700	52/40	5.55	6.52	0.00	9.07		11.00 dBm/MHz	-1.93
	106/54	2.29	2.71	0.00	5.	52	11.00 dBm/MHz	-5.48
5720 (U-NII 2C)	full	-0.71	-0.06	0.00	2.	64	11.00 dBm/MHz	-8.36
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/300kH z)	ch1 meas PSD (dBm/300kH z)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500 kHz)	Limit	Margin (dB)
5720 (U-NII 3)	full	-6.72	-6.63	0.00	2.22	-1.44	30.00 dBm/500kHz	-31.44
	full	-6.19	-5.27	0.00	2.22	-0.48	30.00 dBm/500kHz	-30.48
5745	26/0	-1.26	1.71	0.00	2.22	5.70	30.00 dBm/500kHz	-24.30
0,70	52/37	-0.32	1.23	0.00	2.22	5.75	30.00 dBm/500kHz	-24.25
	106/53	-2.73	-1.25	0.00	2.22	3.30	30.00 dBm/500kHz	-26.70
5785	full	-5.87	-5.60	0.00	2.22	-0.50	30.00 dBm/500kHz	-30.50
	full	-5.71	-5.40	0.00	2.22	-0.32	30.00 dBm/500kHz	-30.32
5825	26/8	0.45	0.67	0.00	2.22	5.79	30.00 dBm/500kHz	-24.21
3020	52/40	0.15	1.10	0.00	2.22	5.88	30.00 dBm/500kHz	-24.12
	106/54	-2.82	-2.07	0.00	2.22	2.80	30.00 dBm/500kHz	-27.20

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			POWER	R DENSITY 8	302.11ax 40 MO	DE			
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/MHz)	ch1 meas PSD	Duty Factor (dB)		PSD(dBm/MHz)		Limit	Margin (dB)
5190	full	-2.87	-1.71	0.00	0.	76	11.00	dBm/MHz	-10.24
5190	242/61	-0.29	0.73	0.00	3.:	26	11.00	dBm/MHz	-7.74
5230	full	-3.16	-2.23	0.00	0.	34	11.00	dBm/MHz	-10.66
5270	full	-3.58	-2.58	0.00	-0.	04	11.00	dBm/MHz	-11.04
5310	full	-3.63	-3.16	0.00	-0.	38	11.00	dBm/MHz	-11.38
3310	242/62	-1.06	-0.04	0.00	2.	49	11.00	dBm/MHz	-8.51
5510	full	-3.19	-3.03	0.00	-0.	10	11.00	dBm/MHz	-11.10
3310	242/61	-1.19	-0.54	0.00	2.	16	11.00	dBm/MHz	-8.84
5550	full	-4.00	-3.18	0.00	-0.	56	11.00	dBm/MHz	-11.56
5670	full	-3.12	-2.64	0.00	0.14		11.00	dBm/MHz	-10.86
0070	242/62	-0.74	-0.57	0.00	2.36		11.00	dBm/MHz	-8.64
5710 (U-NII 2C)	full	-3.11	-3.14	0.00	-0.11		11.00	dBm/MHz	-11.11
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/300kH z)	ch1 meas PSD (dBm/300kH z)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)  Total Corr'd PSD(dBm/500 kHz)			Limit	Margin (dB)
5710 (U-NII 3)	full	-10.12	-9.90	0.00	2.22	-4.78	30.00	dBm/500kHz	-34.78
E755	full	-9.10	-7.33	0.00	2.22	-2.90	30.00	dBm/500kHz	-32.90
5755	242/61	-5.62	-5.12	0.00	2.22	-0.13	30.00	dBm/500kHz	-30.13
5795	full	-8.24	-8.06	0.00	2.22	-2.92	30.00	dBm/500kHz	-32.92
3793	242/62	-6.32	-5.08	0.00	2.22	-0.43	30.00 dBm/500kHz		-30.43
			POWER	R DENSITY 8	302.11ax 80 MO	DE			
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd P	PSD(dBm/MHz)	Limit		Margin (dB)
5040	full	-4.70	-3.05	0.00	-0.	79	11.00	dBm/MHz	-11.79
5210	484/65	-3.08	-2.23	0.00	0.	38	11.00	dBm/MHz	-10.62
5290	full	-5.44	-4.90	0.00	-2.	15	11.00	dBm/MHz	-13.15
5290	484/66	-3.81	-2.83	0.00	-0.	28	11.00	dBm/MHz	-11.28
5530	full	-5.80	-4.75	0.00	-2.	23	11.00	dBm/MHz	-13.23
5550	484/65	-4.03	-3.18	0.00	-0.	57	11.00	dBm/MHz	-11.57
5610	full	-6.02	-4.69	0.00	-2.	29	11.00	dBm/MHz	-13.29
3010	484/66	-3.75	-2.78	0.00	-0.23		11.00	dBm/MHz	-11.23
5690 (U-NII 2C)	full	-5.48	-5.23	0.00	-2.34		11.00	dBm/MHz	-13.34
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/300kH z)	ch1 meas PSD (dBm/300kH z)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)  Total Corr'd PSD(dBm/500 kHz)		Limit		Margin (dB)
5690 (U-NII 3)	full	-12.94	-12.28	0.00	2.22	-7.37	30.00	dBm/500kHz	-37.37
<del>-</del> <del>-</del>	full	-10.41	-9.15	0.00	2.22	-4.50	30.00	dBm/500kHz	-34.50
5775	484/65	-9.18	-7.70	0.00	2.22	-3.15	30.00	dBm/500kHz	-33.15

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### EIRP spectral density (ISED) 10.5.2

	EIRP spectra	I density 80	02.11a MOE	ÞΕ							
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)						
5180	1.50	-0.54	0.96	10	-9.04						
5220	0.87	-0.54	0.33	10	-9.67						
5240	0.48	-0.54	-0.06	10	-10.06						
E	IRP spectral d	ensity 802.	11n HT20 M	ODE							
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)						
5180	3.62	-0.54	3.08	10	-6.92						
5220	3.40	-0.54	2.86	10	-7.14						
5240	3.05	-0.54	2.51	10	-7.49						
E	IRP spectral d	ensity 802.	11n HT40 M	ODE							
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)						
5190	0.63	-0.54	0.09	10	-9.91						
5230	0.14	-0.54	-0.40	10	-10.40						
EIF	EIRP spectral density 802.11ac VHT80 MODE										
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)						
5210	-2.54	-0.54	-3.08	10	-13.08						

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	EIR	P spectral o	density 802.	.11ax 20 M	ODE				
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)			
	full	3.13	-0.54	2.59	10	-7.41			
5180	26/0	10.45	-0.54	9.91	10	-0.09			
3100	52/37	9.35	-0.54	8.81	10	-1.19			
	106/53	6.65	-0.54	6.11	10	-3.89			
5220	full	2.75	-0.54	2.21	10	-7.79			
5240	full	2.92	-0.54	2.38	10	-7.62			
EIRP spectral density 802.11ax 40 MODE									
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)			
5190	full	0.76	-0.54	0.22	10	-9.78			
3190	242/61	3.26	-0.54	2.72	10	-7.28			
5230	full	0.34	-0.54	-0.20	10	-10.20			
	EIR	P spectral (	density 802.	.11ax 80 M	ODE				
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)			
` ,			(ubi)	(aBiii)					
5210	full	-0.79	-0.54	-1.33	10	-11.33			

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