

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181,
Taiwan (R.O.C)

Product Name: Tablet Computer

Brand Name: acer, AOPEN

Model No.: N18Q1, CTB10

Model Difference: For Marketing purpose

Report Number: E2/2019/90023

FCC ID: HLZN18Q1

IC: 1754F-N18Q1

FCC Rule Part: §15.407, Cat: NII

ISED RSS: RSS-247 issue 2 Feb. 2017

Issue Date: Feb. 11, 2020

Date of Test: Sep. 19, 2019 ~ Jan. 31, 2020

**Date of EUT Re-
ceived:** Sep. 19, 2019

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. 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: _____

CHUN-CHIEH, CHEN

Chun Chieh Chen / Supervisor



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Revision History

Report Number	Revision	Description	Issue Date	Remark
E2/2019/90023	Rev.00	Original.	Feb. 11, 2020	Revised By: Yuri Tsai

Note:

1、Multiple Model numbers or Trademarks

The variant model numbers / trademarks are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.

2、Disclaimer

Variant information between model numbers / trademarks is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Tablet Computer	
Brand Name:	acer, AOPEN	
Model No.:	N18Q1, CTB10	
Model Difference:	For Marketing purpose	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	4.4Vdc from Rechargeable Li-polymer Battery or 5 / 9 / 15 / 20Vdc from AC/DC Adapter	
	Battery:	Model No.:SQU-1706, Supplier: SMP
	Adapter:	Model No.: PA-1450-78, Supplier: LITEON
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only	
Antenna Designation	PIFA Antenna 5150~5250MHz Gain: 1.99 (Main) / 2.54 (Aux) 5250~5350MHz Gain: 1.99 (Main) / 3.03 (Aux) 5470~5725MHz Gain: 1.96 (Main) / 3.44 (Aux) 5725~5850MHz Gain: 1.94 (Main) / 1.81 (Aux)	
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps	802.11 ac_20MHz: 6.5 – 173.3Mbps 802.11 ac_40MHz: 13.5 – 400.0Mbps 802.11 ac_80MHz: 29.3 – 866.7Mbps

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1.2 FCC worst power

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (Avg.) (dBm) (Worst case)	Modulation Technology
a	5150~5250	4	16	OFDM
	5250~5350	4	17.88	
	5470~5725	12	16.98	
	5725~5850	5	17.97	
n_HT ac_VHT 20M	5150~5250	4	HT: 16	OFDM
	5250~5350	4	HT: 16.98	
	5470~5725	12	HT: 16.50	
	5725~5850	5	HT: 16.98	
n_HT ac_VHT 40M	5150~5250	2	HT: 15.89	OFDM
	5250~5350	2	HT: 15.87	
	5470~5725	5	HT: 15.84	
	5725~5850	2	HT: 15.82	
ac_VHT 80M	5150~5250	1	12.80	OFDM
	5250~5350	1	12.36	
	5470~5725	2	15.96	
	5725~5850	1	13.39	

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1.3 ISED worst power

Wi-Fi 802.11	Frequency Range	Channels	Avg. or EIRP	Rated Power(dBm) (Worst Case)	Modulation Technology
11a	5150~5250	4	EIRP	21.28	OFDM
	5250~5350	4	Avg.	17.88	
	5470~5725	12	Avg.	16.98	
	5725-5850	5	Avg.	17.97	
11n_HT / ac_VHT 20M	5150~5250	4	EIRP	HT: 21.28	OFDM
	5250~5350	4	Avg.	HT: 16.98	
	5470~5725	12	Avg.	HT: 16.50	
	5725-5850	5	Avg.	HT: 16.98	
11n_HT / ac_VHT 40M	5150~5250	2	EIRP	HT: 21.17	OFDM
	5250~5350	2	Avg.	HT: 15.87	
	5470~5725	6	Avg.	HT: 15.84	
	5725-5850	2	Avg.	HT: 15.82	
11ac VHT80M	5150~5250	1	EIRP	18.08	OFDM
	5250~5350	1	Avg.	12.36	
	5470~5725	2	Avg.	15.96	
	5725-5850	1	Avg.	13.39	

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1.4 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

1.5 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory (TAF code 0513)
No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

FCC Designation number: TW0002

ISED CAB identifier: TW0513

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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.

Note:

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

2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

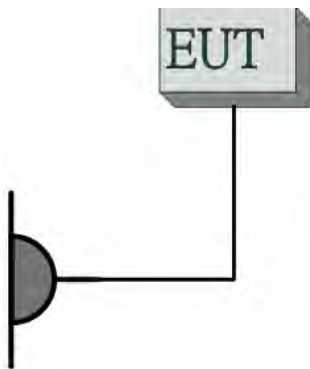


Fig. 2-3 Conducted (AC powerline) Emission Configuration

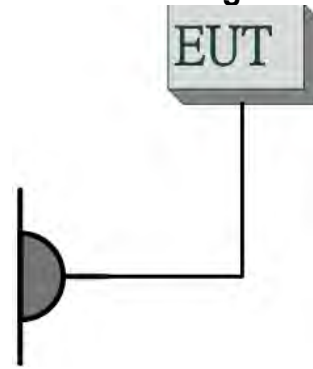


Fig. 2-2 Conducted (Antenna Port) Emission Configuration



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	ACER	P1VE6	S2SFT02003 128135D316 01	Shielded	Unshielded

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3 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
§15.407(g)	RSS-Gen §6.11	Frequency Stability	Compliant
§15.203 §15.407(a)	RSS- Gen §6.8	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

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

Operated band in 5150 MHz ~5250 MHz:

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

40 M	
CH	Freq (MHz)
38	5190
46	5230

80 M	
CH	Freq (MHz)
42	5210

Operated band in 5250 MHz ~5350 MHz:

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

40 M	
CH	Freq (MHz)
54	5270
62	5310

80 M	
CH	Freq (MHz)
58	5290

Operated band in 5470 MHz ~5725 MHz:

20 M	
CH	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

40 M	
CH	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

Operated band in 5745 MHz ~5850 MHz:

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

40 M	
CH	Freq (MHz)
151	5755
159	5795

80 M	
CH	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	Transmission Chain				Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 a	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> MIMO
<input checked="" type="checkbox"/> 802.11 ac	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> MIMO

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

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4.2.1 RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140,			
	5745~5825	149 to 165	149,157,165			
802.11ac_VHT80	5210	42	42		MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 122	106,122			
	5775	155	155			

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140,			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48		MCS8	MIMO
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140,			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46		MCS8	MIMO
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 134	102,110,134,			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	MCS0	MIMO	
	5290	58	58			
	5530~5610	106 to 122	106,122,138			
	5530~5690	106 to 138				
	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 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 BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140,			
	5500~5720	100 to 144	144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48		MCS8	MIMO
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140,			
	5500~5720	100 to 144	144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46		MCS8	MIMO
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 134	102,110,134,142			
	5510~5710	102 to 142				
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	MCS0	MIMO	
	5290	58	58			
	5530~5610	106 to 122	106,122,138			
	5530~5690	106 to 138				
	5775	155	155			

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26dB & 6dB Emission Bandwidth	+/- 123.36 Hz
The Maximum Output Power Measurement	+/- 0.96 dB
Peak Power Spectral Density Measurement	+/- 1.67 dB
Frequency Stability	+/- 123.36 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission Measurement Uncertainty	
Polarization: Vertical	9kHz~30MHz: +/-2.3dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB
Polarization: Horizontal	9kHz~30MHz: +/-2.3dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	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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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

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

Note

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

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	TESEQ	NNB 51	36076	02/13/2019	02/12/2020
EMI Test Receiver	R&S	ESCI	101342	04/26/2019	04/25/2020

6.3 EUT Setup

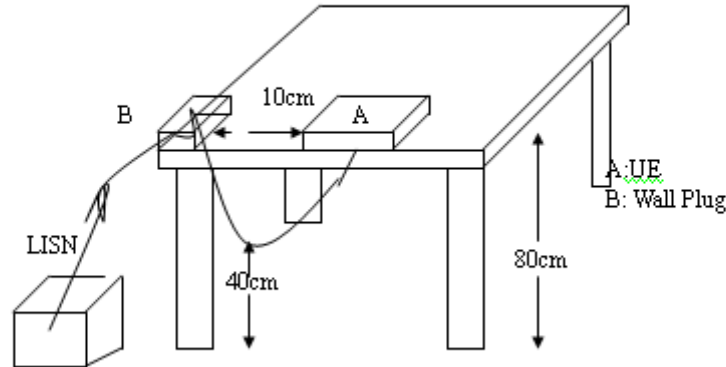
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz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

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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.

6.6 Measurement Result

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

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

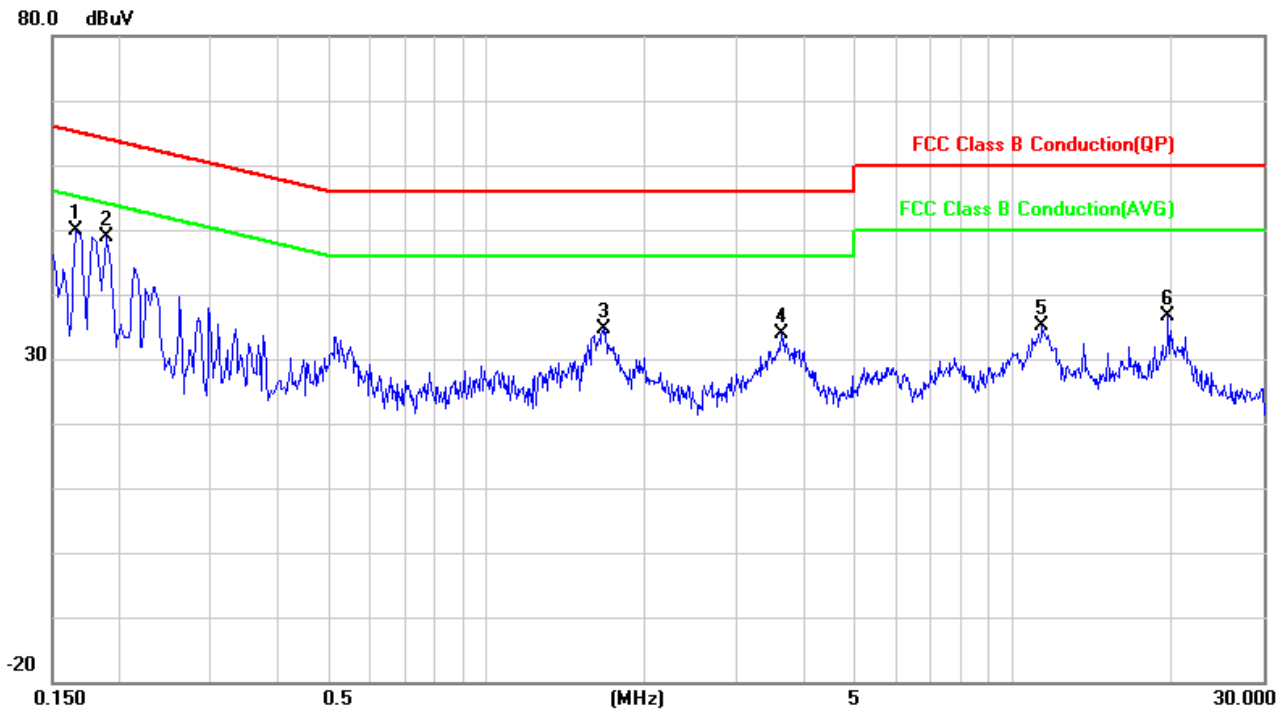
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation (5G)	Date:	2019/10/16
Line:	L1	Temp.(°C)/Hum.(%):	20.7(°C)/70%
Test Voltage:	AC 120V/60Hz	Test By:	Kailin
Report Number:	E2/2019/90023		
Note:	Adapter - A16-045N1A		



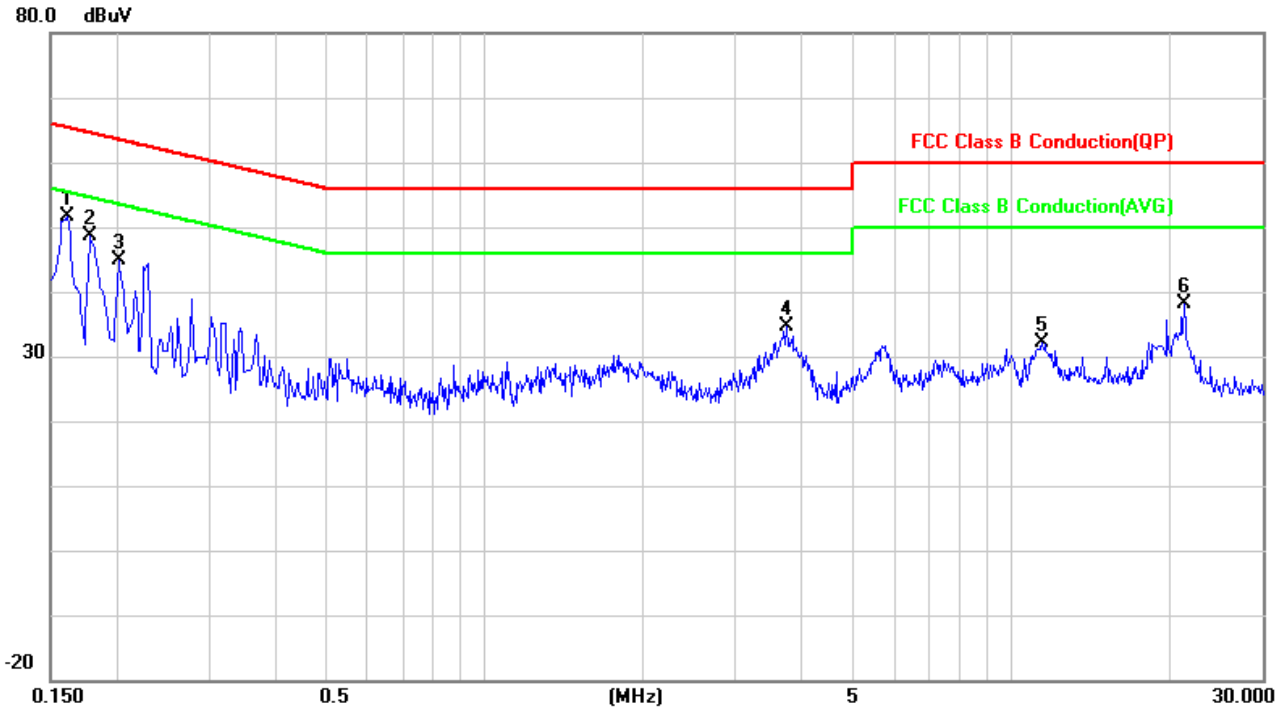
No.	Mk.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
1		0.1660	30.36	19.49	49.85	65.16	-15.31	peak
2	*	0.1900	29.23	19.53	48.76	64.04	-15.28	peak
3		1.6740	14.73	19.91	34.64	56.00	-21.36	peak
4		3.6540	13.97	19.94	33.91	56.00	-22.09	peak
5		11.4100	15.10	19.98	35.08	60.00	-24.92	peak
6		19.7660	16.63	19.99	36.62	60.00	-23.38	peak

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Description:	Operation (5G)	Date:	2019/10/16
Line:	N	Temp.(°C)/Hum.(%):	20.7(°C)/70%
Test Voltage:	AC 120V/60Hz	Test By:	Kailin
Report Number:	E2/2019/90023		
Note:	Adapter - A16-045N1A		



No.	Mk.	Freq. (MHz)	Reading dBuV	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
1	*	0.1620	31.94	19.71	51.65	65.36	-13.71	peak
2		0.1780	28.84	19.74	48.58	64.58	-16.00	peak
3		0.2020	25.11	19.78	44.89	63.53	-18.64	peak
4		3.7580	14.53	20.16	34.69	56.00	-21.31	peak
5		11.4900	11.88	20.21	32.09	60.00	-27.91	peak
6		21.2740	17.77	20.26	38.03	60.00	-21.97	peak

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7 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	94.29	0.26	0.48	1.00
802.11n_20	88.68	0.52	1.02	2.00
802.11ac_20	88.86	0.51	1.02	2.00
802.11n_40	73.51	1.34	2.02	3.00
802.11ac_40	74.52	1.28	2.02	3.00
802.11ac_80	79.05	1.02	2.15	3.00

$$\sqrt{\text{Duty Cycle Factor: } 10 * \log(1/0.9429) = 0.26}$$

$$\sqrt{\text{Duty Cycle Factor: } 10 * \log(1/0.8868) = 0.52}$$

$$\sqrt{\text{Duty Cycle Factor: } 10 * \log(1/0.8886) = 0.51}$$

$$\sqrt{\text{Duty Cycle Factor: } 10 * \log(1/0.7351) = 1.34}$$

$$\sqrt{\text{Duty Cycle Factor: } 10 * \log(1/0.7452) = 1.28}$$

$$\sqrt{\text{Duty Cycle Factor: } 10 * \log(1/0.7905) = 1.02}$$

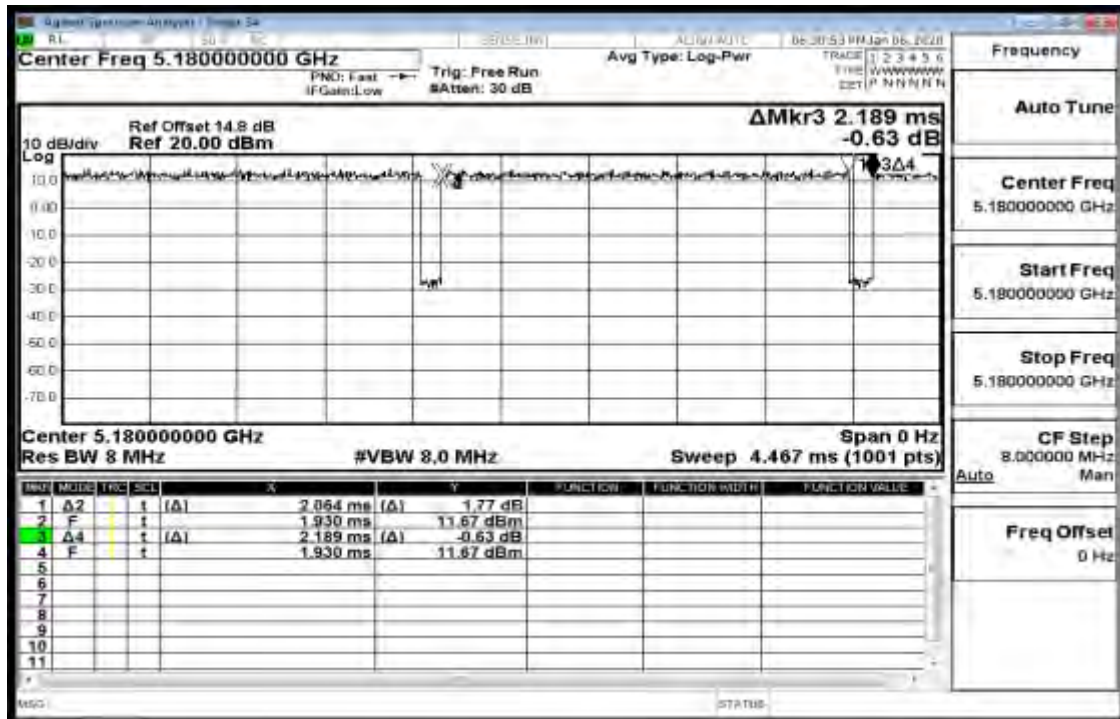
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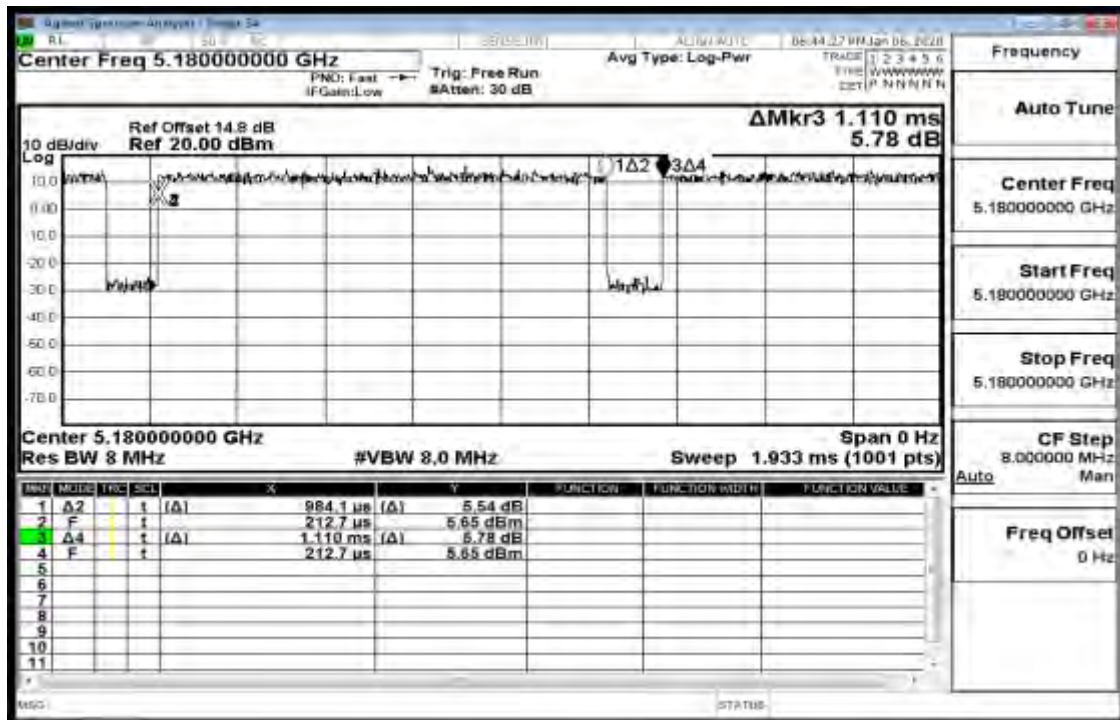
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7.2 DUTY CYCLE TEST SIGNAL MEASUREMENT RESULT

802.11a



802.11n HT20

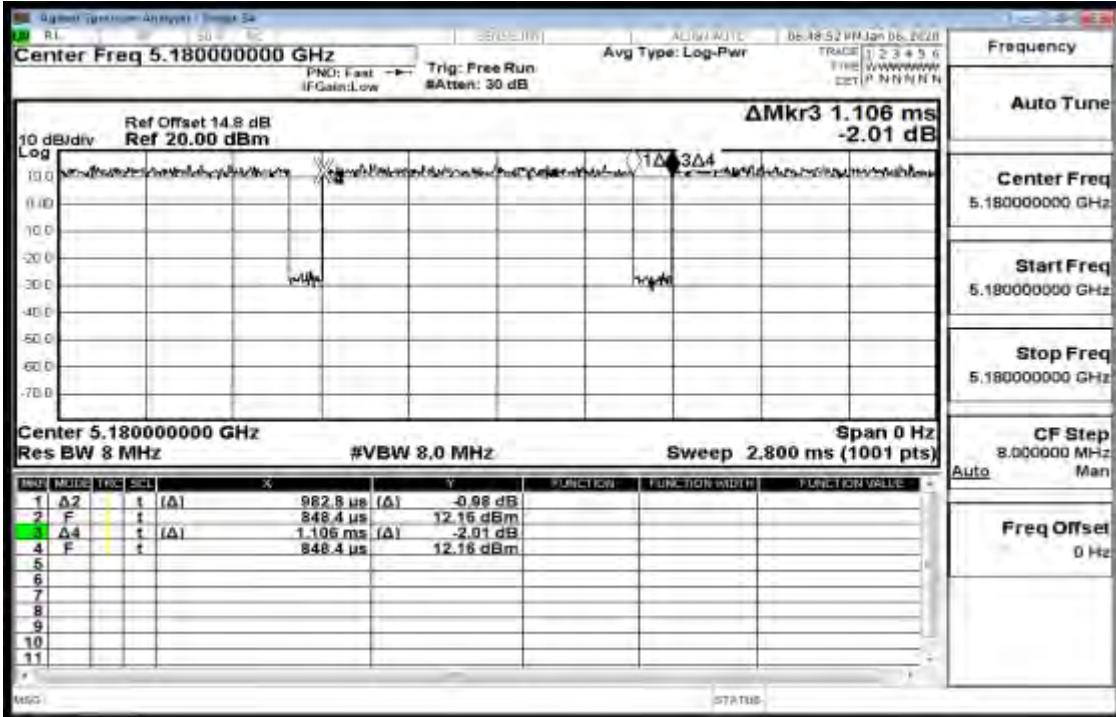


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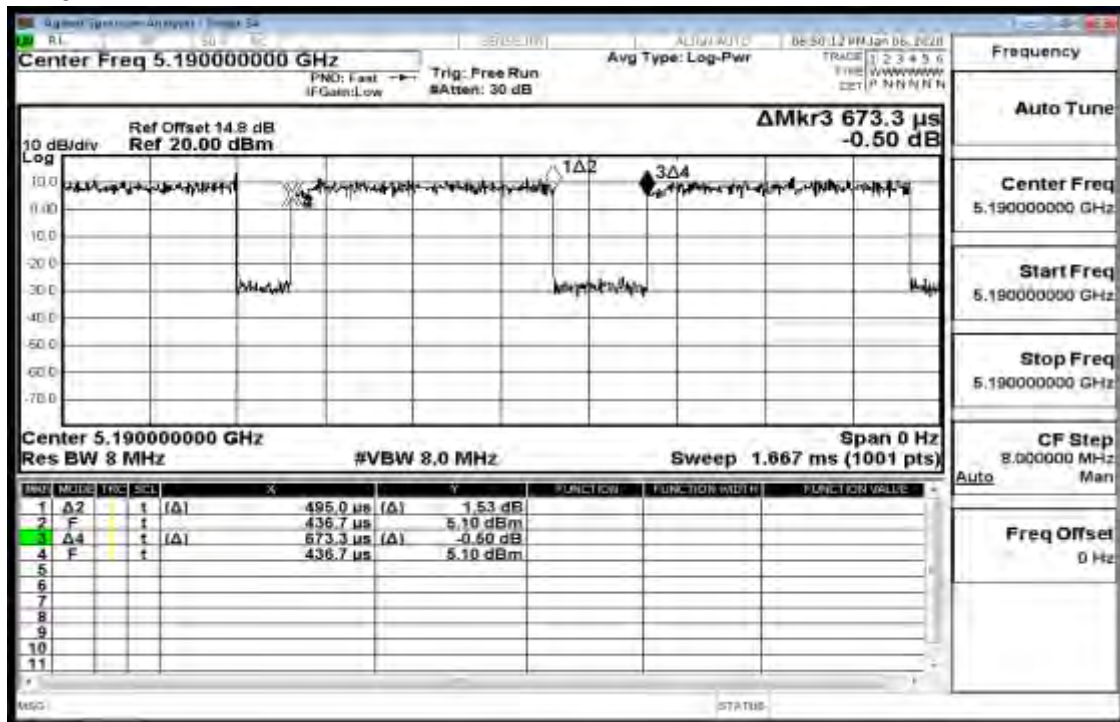
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802.11ac VHT20



802.11n HT 40

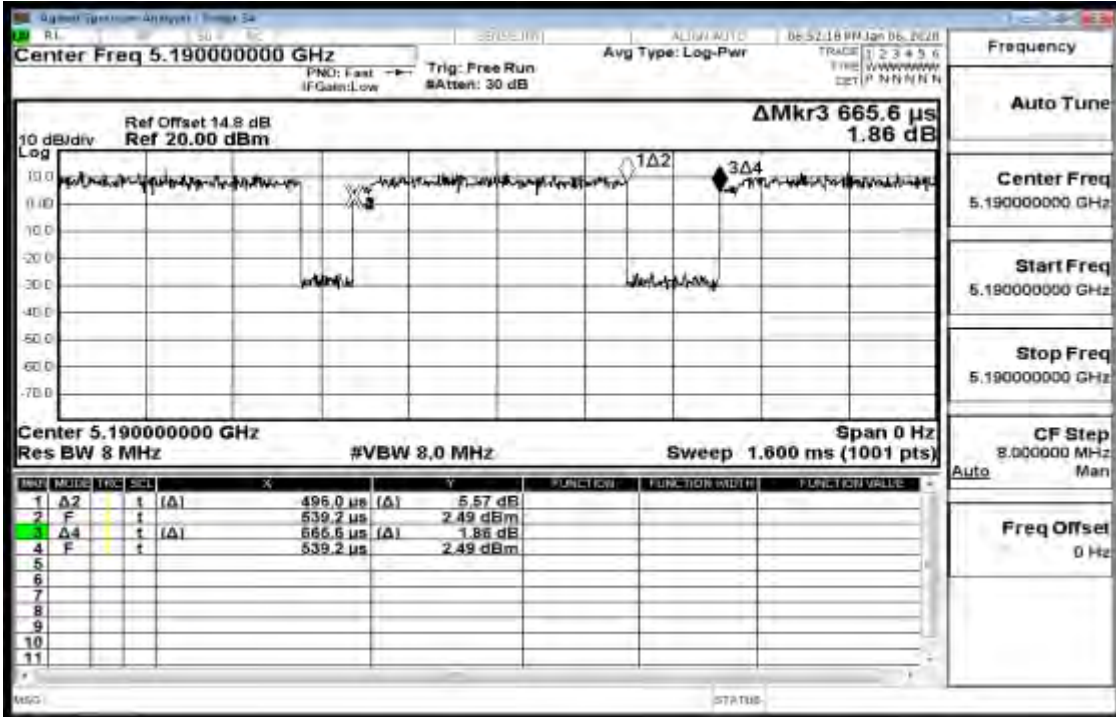


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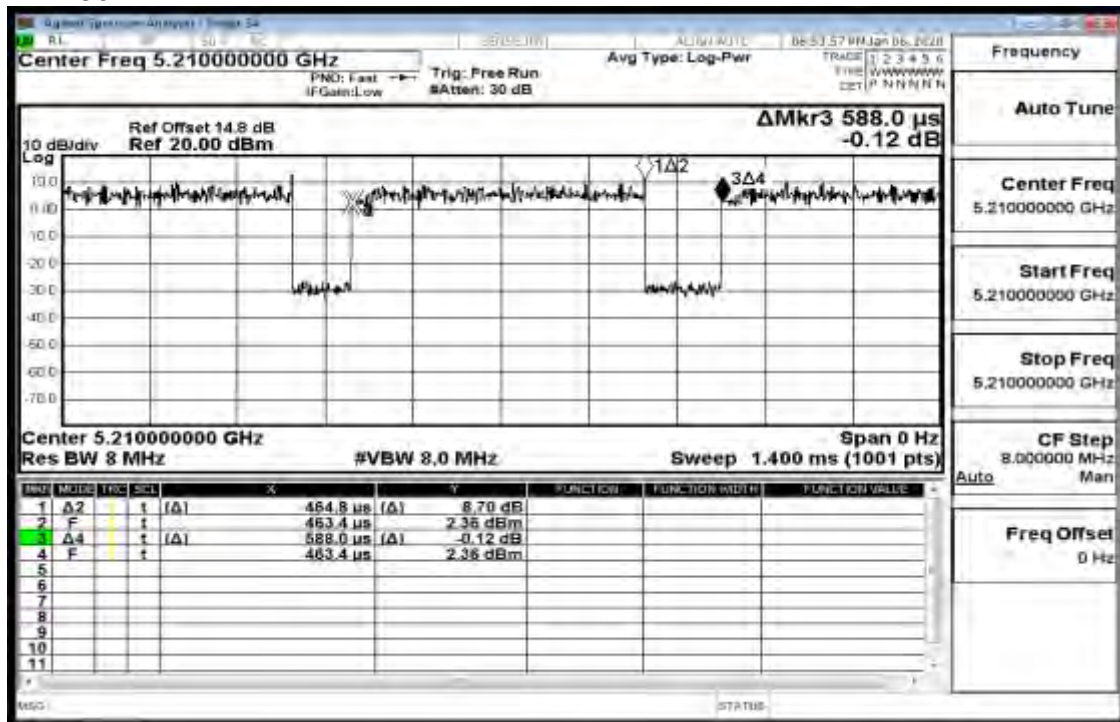
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802.11ac VHT 40



802.11ac VHT 80



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8 26DB, 99% & 6DB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW
Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 3*RBW,
Span = 30M/50MHz,
Detector=Peak,
Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. 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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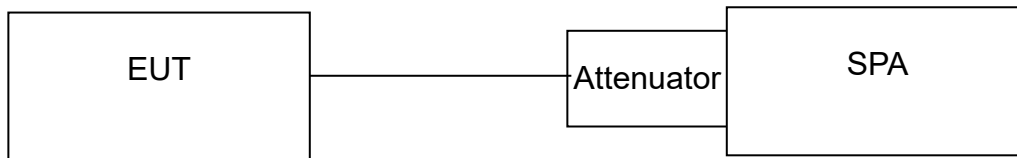
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8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equip-ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Spectrum Analyzer	Agilent	N9010A	MY57120200	03/06/2019	03/05/2020
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/09/2019	07/08/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020

8.4 Test Set-up



8.5 Measurement Result

8.5.1 FCC 26dB Bandwidth

802.11a_Ch0			802.11a_Ch1		
Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.91	12.767	5180	18.55	12.683
5220	18.8	12.742	5220	18.69	12.716
5240	18.81	12.744	5240	20.4	13.096
5260	20.28	13.071	5260	18.7	12.718
5300	19.17	12.826	5300	18.53	12.679
5320	18.94	12.774	5320	18.57	12.688
5500	24.92	13.965	5500	20.13	13.038
5580	18.91	12.767	5580	18.43	12.655
5700	18.75	12.730	5700	19.15	12.822
5720	18.77	12.735	5720	23.56	13.722

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.45	12.889
5220	19.51	12.903
5240	19.46	12.891
5260	19.33	12.862
5300	19.81	12.969
5320	19.67	12.938
5500	19.78	12.962
5580	20.15	13.043
5700	19.48	12.896
5720	19.31	12.858

802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.52	12.905
5220	19.54	12.909
5240	21.24	13.272
5260	19.02	12.792
5300	19.65	12.934
5320	19.92	12.993
5500	27	14.314
5580	19.48	12.896
5700	19.54	12.909
5720	24.81	13.946

802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.55	15.971
5230	39.87	16.006
5270	42.23	16.256
5310	39.13	15.925
5510	39.27	15.941
5550	44.82	16.515
5670	40	16.021
5710	39.43	15.958

802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.95	16.123
5230	45.3	16.561
5270	39.77	15.996
5310	40.23	16.046
5510	40.52	16.077
5550	41.04	16.132
5670	41.32	16.162
5710	43.1	16.345

802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.75	19.125
5290	80.44	19.055
5530	80.51	19.058
5610	83.21	19.202
5690	80.61	19.064

802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.75	19.125
5290	81.27	19.099
5530	82.89	19.185
5610	81.88	19.132
5690	80.59	19.063

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8.5.2 6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Peak detector for FCC
802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	14.74	11.685
5785	15.3	11.847
5825	16.3	12.122

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	14.47	11.605
5785	12.3	10.899
5825	15.93	12.022

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.13	11.798
5785	14.45	11.599
5825	16.34	12.133

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.02	11.767
5785	14.06	11.480
5825	15.21	11.821

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	33.83	15.293
5795	34.99	15.439

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.11	15.454
5795	33.83	15.293

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.02	18.752

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	73.79	18.680

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8.5.3 ISED 99% Bandwidth

802.11a_Ch0			802.11a_Ch1		
Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.277	12.116	5180	16.308	12.124
5220	16.311	12.125	5220	16.297	12.121
5240	16.385	12.144	5240	16.358	12.137
5260	16.364	12.139	5260	16.326	12.129
5300	16.312	12.125	5300	16.335	12.131
5320	16.311	12.125	5320	16.276	12.115
5500	16.388	12.145	5500	16.317	12.126
5580	16.301	12.122	5580	16.275	12.115
5700	16.325	12.129	5700	16.291	12.119
5720	16.294	12.120	5720	16.391	12.146

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	17.49	12.428	5180	17.454	12.419
5220	17.493	12.429	5220	17.505	12.432
5240	17.464	12.421	5240	17.441	12.416
5260	17.477	12.425	5260	17.463	12.421
5300	17.499	12.430	5300	17.433	12.414
5320	17.452	12.418	5320	17.396	12.404
5500	17.418	12.410	5500	17.542	12.441
5580	17.459	12.420	5580	17.458	12.420
5700	17.482	12.426	5700	17.469	12.423
5720	17.464	12.421	5720	17.501	12.431

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802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	35.781	15.537	5190	35.804	15.539
5230	35.806	15.540	5230	35.802	15.539
5270	35.848	15.545	5270	35.759	15.534
5310	35.856	15.546	5310	35.83	15.542
5510	35.691	15.526	5510	35.821	15.541
5550	35.833	15.543	5550	35.737	15.531
5670	35.764	15.534	5670	35.777	15.536
5710	35.861	15.546	5710	35.857	15.546

802.11n_HT40_Ch1

802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	74.872	18.743	5210	74.856	18.742
5290	74.805	18.739	5290	74.933	18.747
5530	74.781	18.738	5530	74.991	18.750
5610	74.848	18.742	5610	74.832	18.741
5690	74.386	18.715	5690	74.961	18.748

802.11ac_VHT80_Ch1

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)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.66	11.948	5745	16.12	12.074
5785	15.66	11.948	5785	15.72	11.965
5825	16.15	12.082	5825	16.01	12.044

802.11a_Ch1

802.11n_HT20_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.41	12.151	5745	16.86	12.269
5785	16.37	12.140	5785	17.12	12.335
5825	16.94	12.289	5825	17	12.304

802.11n_HT20_Ch1

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802.11n_HT40_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.23	15.469	5755	35.31	15.479
5795	35.7	15.527	5795	35.33	15.481

802.11n_HT40_Ch1

802.11ac_VHT80_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	74.03	18.694	5775	73.29	18.650

802.11ac_VHT80_Ch1

8.5.5 99% BW Verification for DFS Function

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.14	< 5250	5240	5248.16	< 5250
5745	5736.88	> 5725	5745	5736.81	> 5725

802.11a_Ch1

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.71	< 5250	5240	5248.74	< 5250
5745	5736.26	> 5725	5745	5736.29	> 5725

802.11n_HT20_Ch1

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.92	< 5250	5230	5247.93	< 5250
5755	5737.11	> 5725	5755	5737.11	> 5725

802.11n_HT40_Ch1

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.32	< 5250	5210	5247.45	< 5250
5775	5737.56	> 5725	5775	5737.52	> 5725

802.11ac_VHT80_Ch1

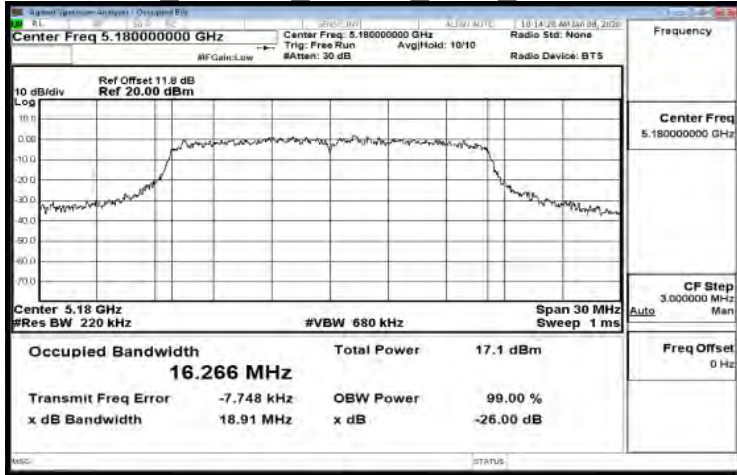
Please see next page for test plots.

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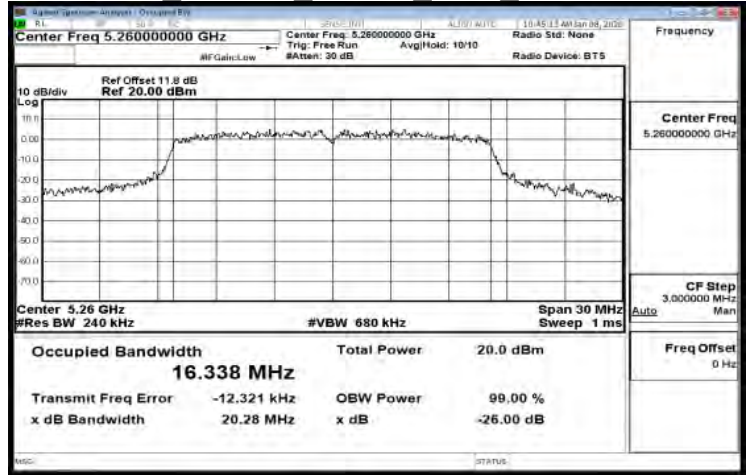
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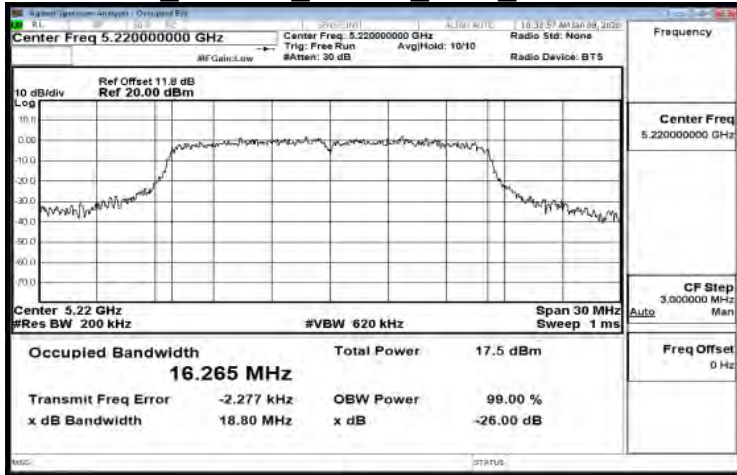
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FCC 802.11a 20MHz Main 5260MHz



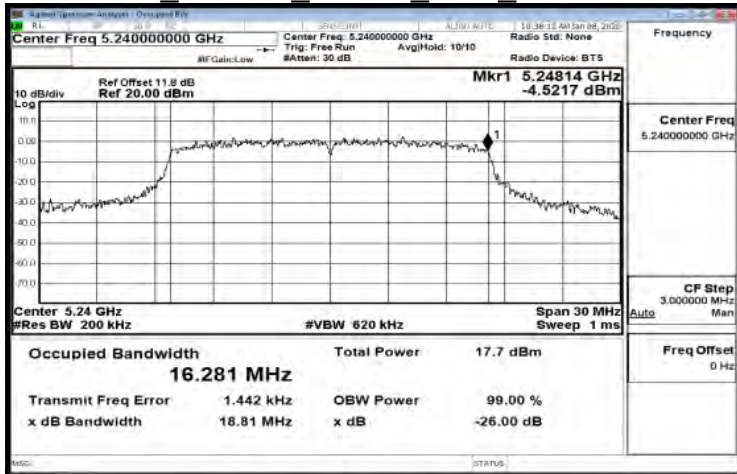
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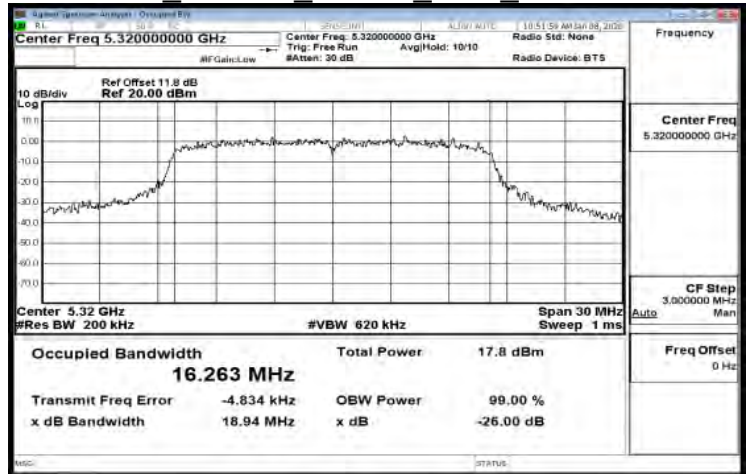
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FCC 802.11a 20MHz Main 5240MHz



FCC 802.11a 20MHz Main 5320MHz

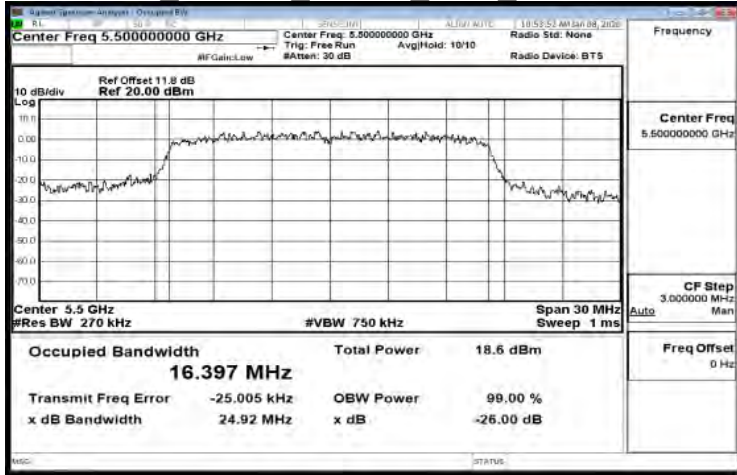


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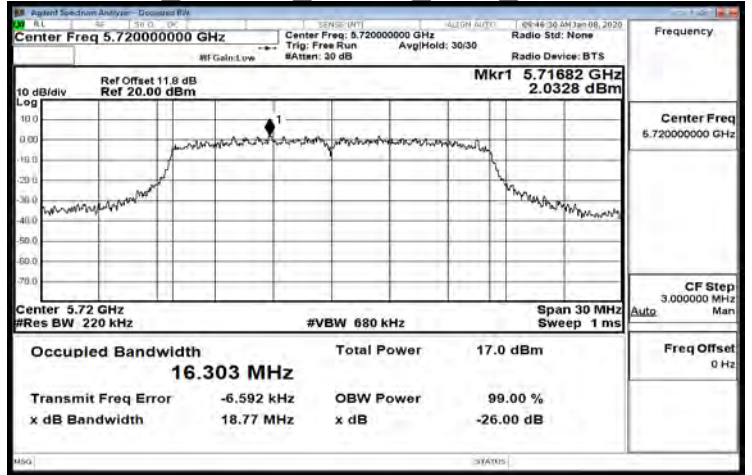
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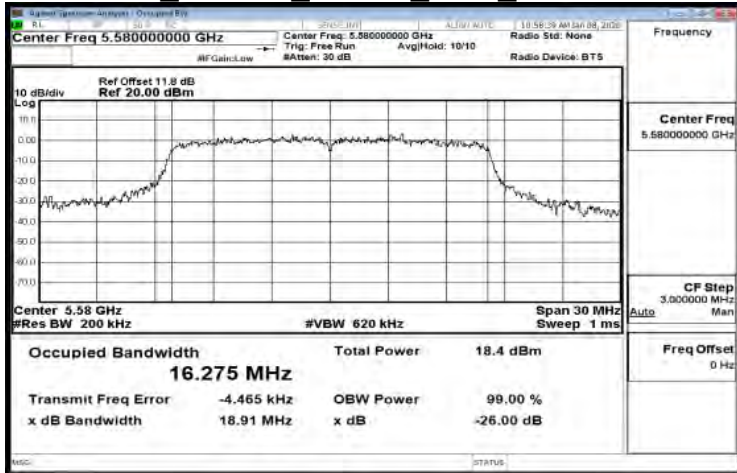
FCC 802.11a 20MHz Main 5500MHz



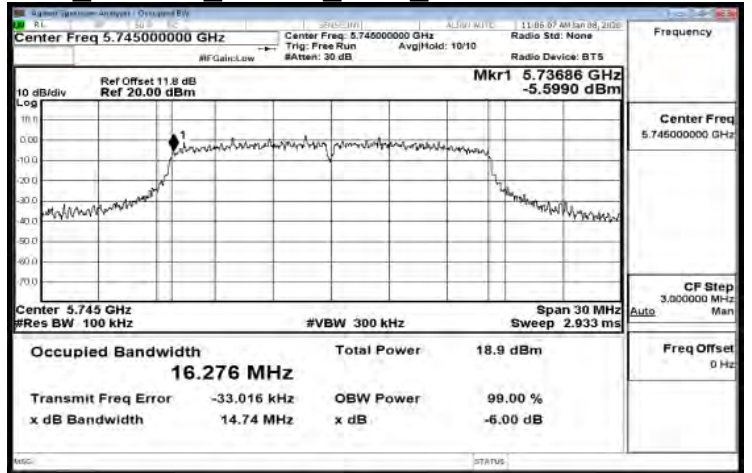
FCC 802.11a 20MHz Main 5720MHz



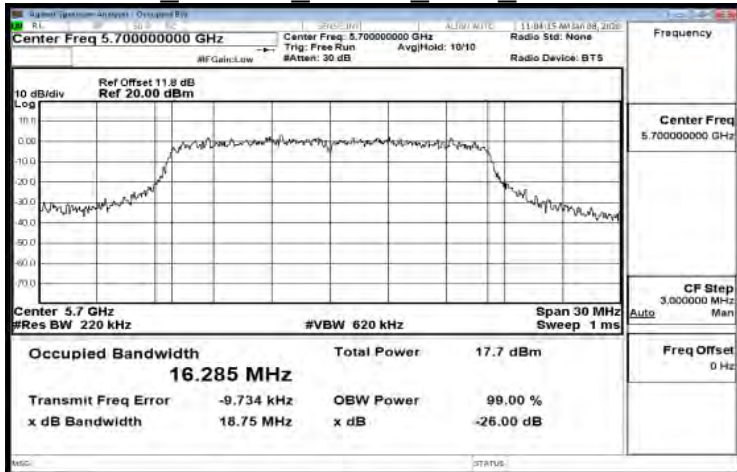
FCC 802.11a 20MHz Main 5580MHz



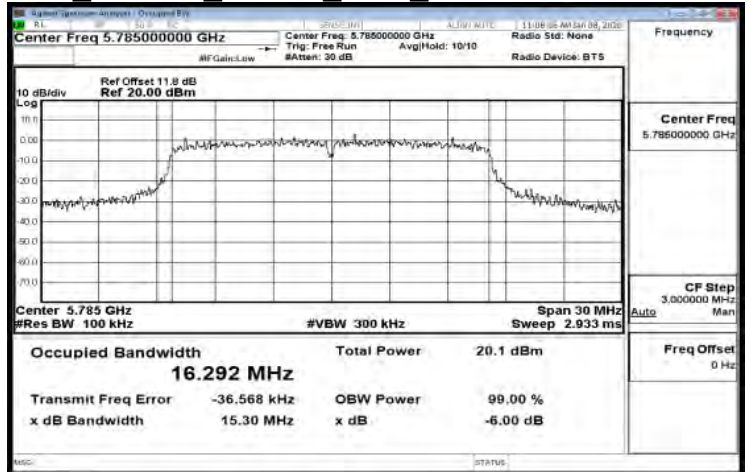
FCC 802.11a 20MHz Main 5745MHz



FCC 802.11a 20MHz Main 5700MHz



FCC 802.11a 20MHz Main 5785MHz

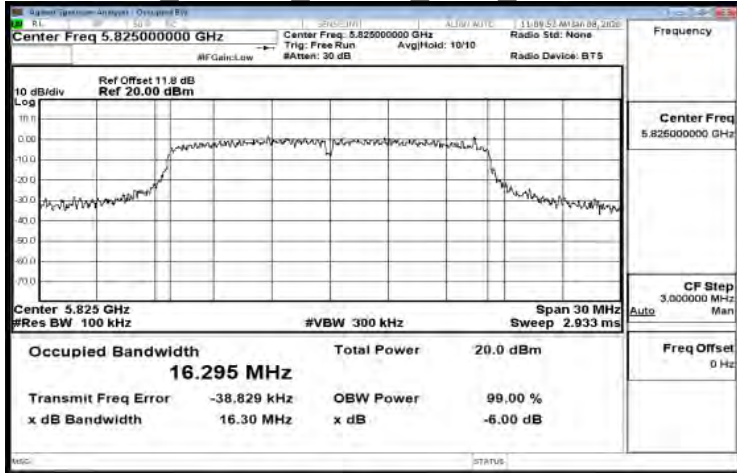


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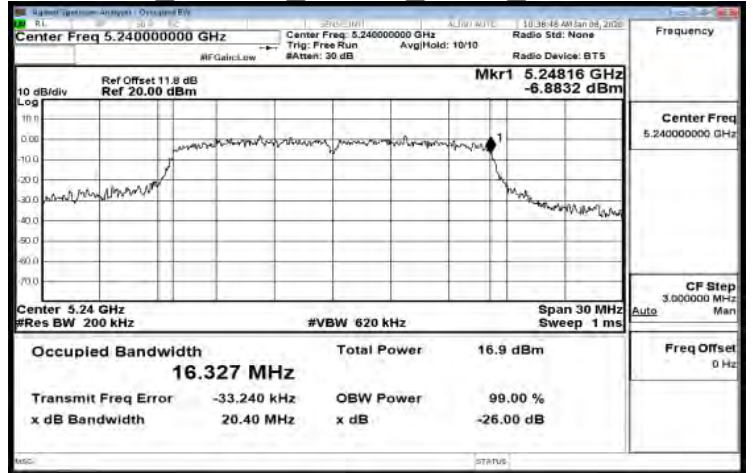
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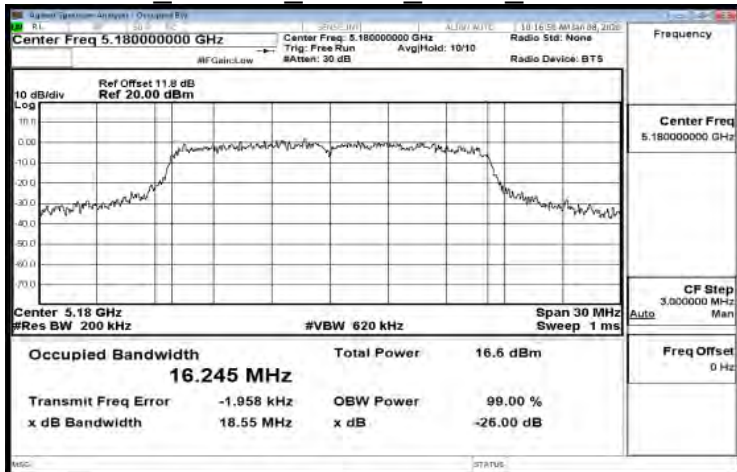
FCC 802.11a 20MHz Main 5825MHz



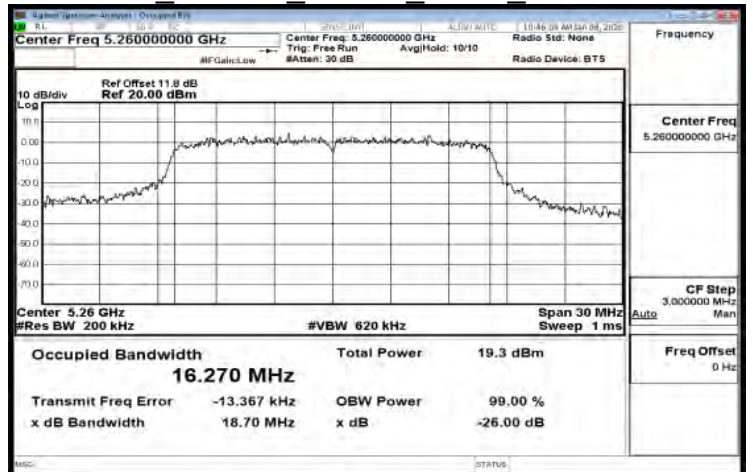
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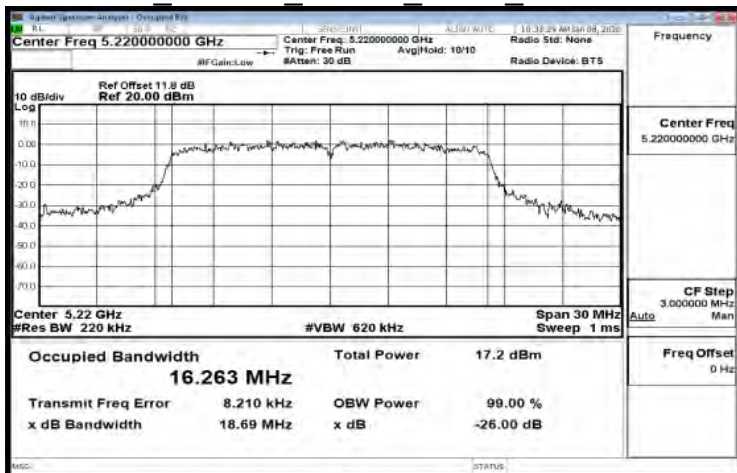
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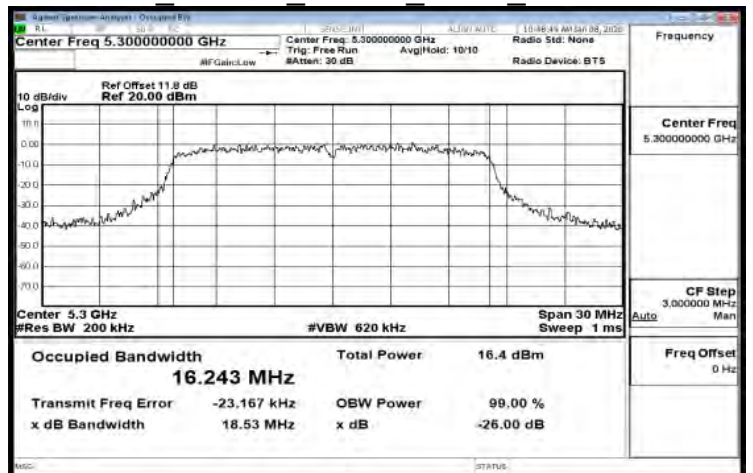
FCC 802.11a 20MHz AUX1 5260MHz



FCC 802.11a 20MHz AUX1 5220MHz



FCC 802.11a 20MHz AUX1 5300MHz

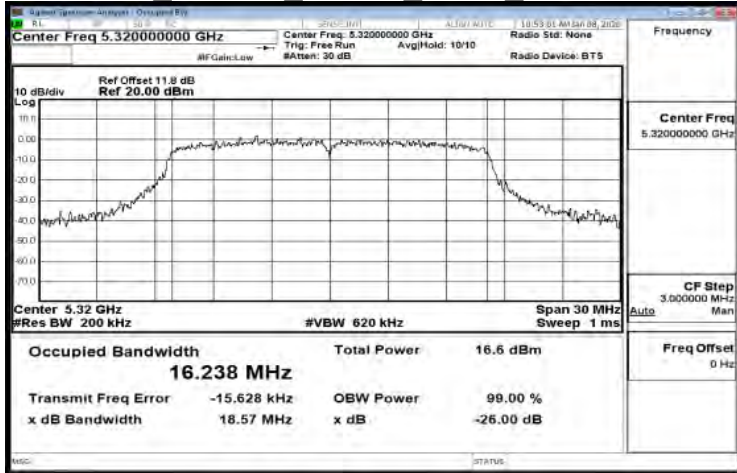


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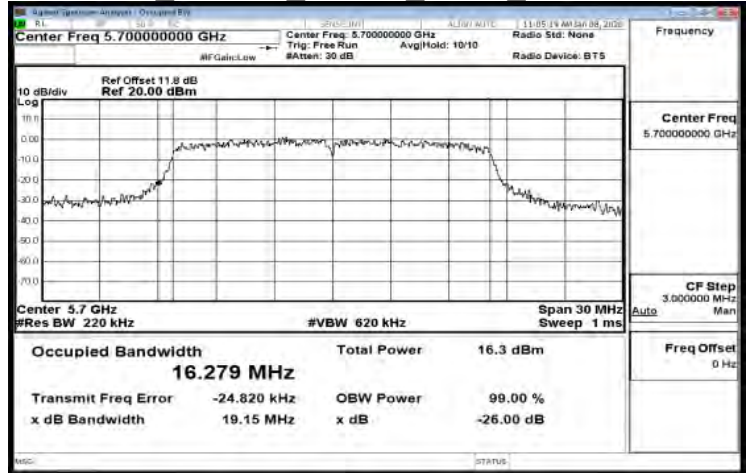
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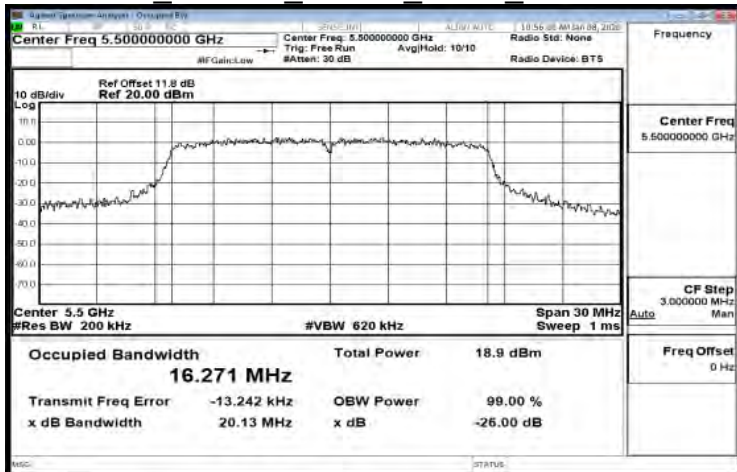
FCC 802.11a 20MHz AUX1 5320MHz



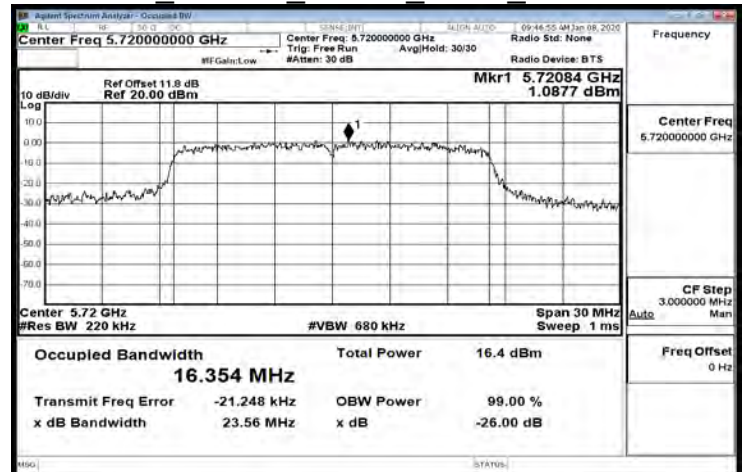
FCC 802.11a 20MHz AUX1 5700MHz



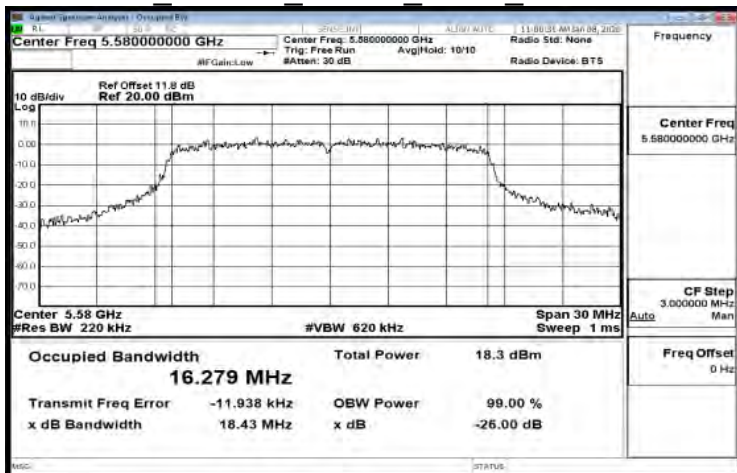
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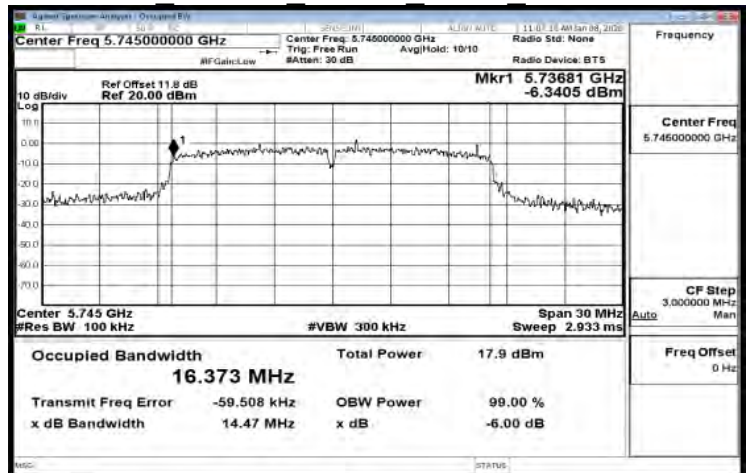
FCC 802.11a 20MHz AUX1 5720MHz



FCC 802.11a 20MHz AUX1 5580MHz



FCC 802.11a 20MHz AUX1 5745MHz

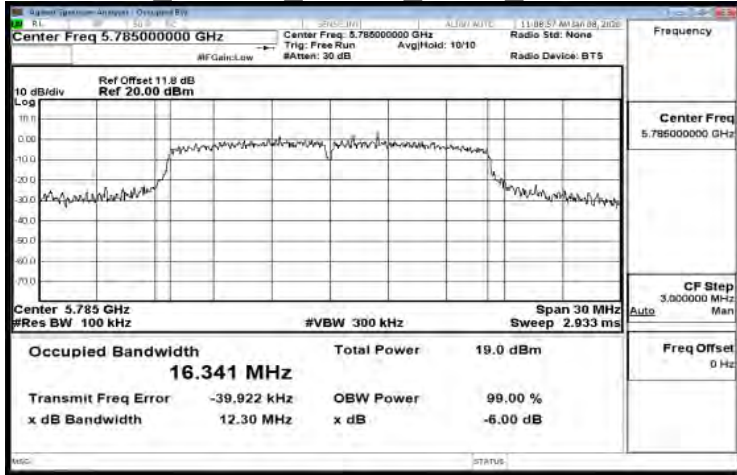


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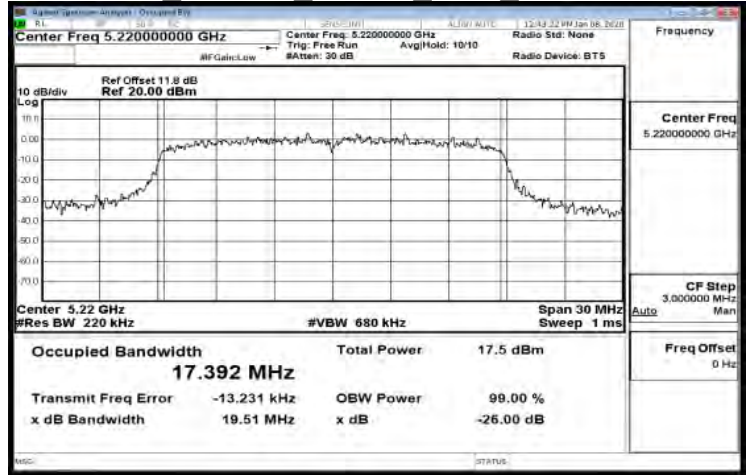
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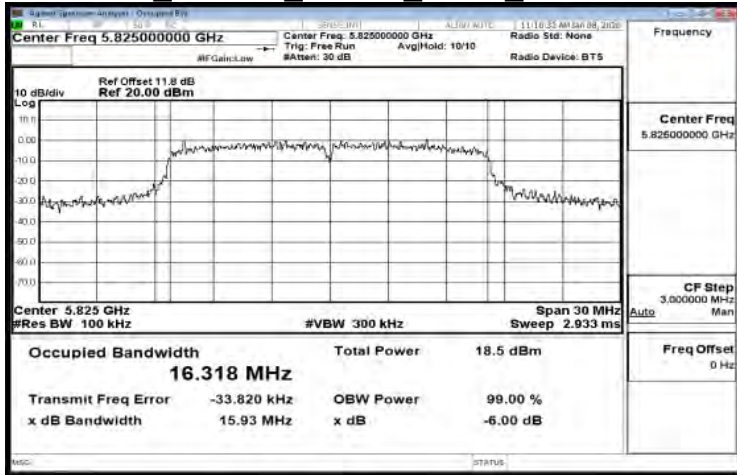
FCC 802.11a 20MHz AUX1 5785MHz



FCC 802.11n 20MHz Main 5220MHz



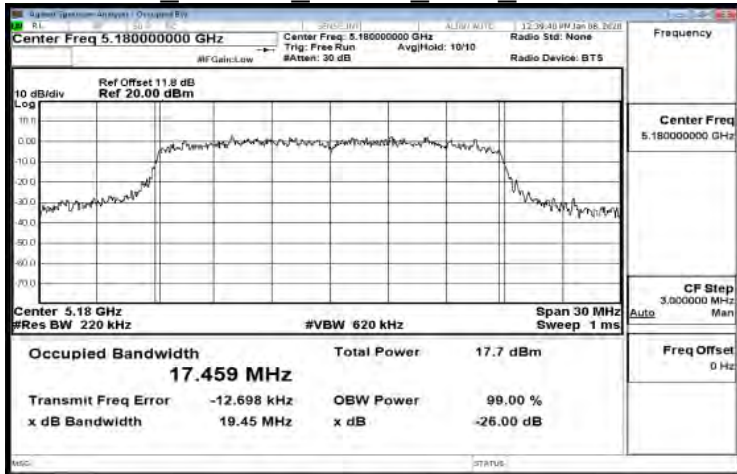
FCC 802.11a 20MHz AUX1 5825MHz



FCC 802.11n 20MHz Main 5240MHz



FCC 802.11n 20MHz Main 5180MHz



FCC 802.11n 20MHz Main 5260MHz

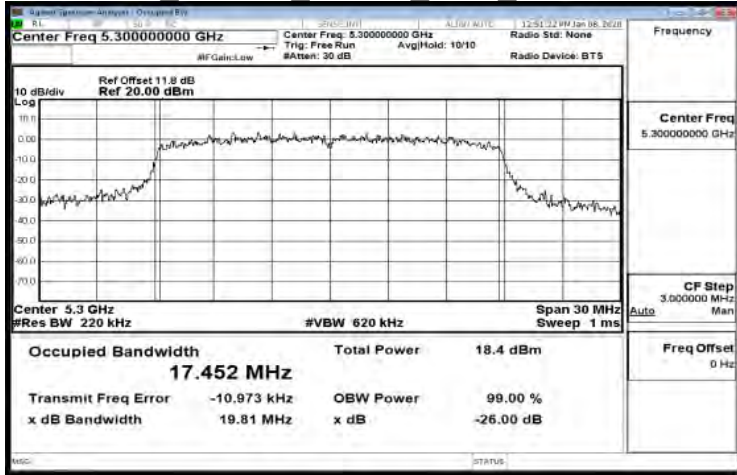


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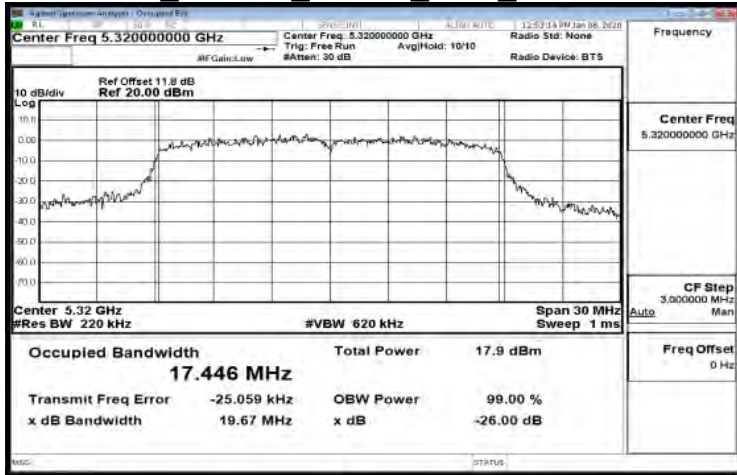
FCC 802.11n 20MHz Main 5300MHz



FCC 802.11n 20MHz Main 5580MHz



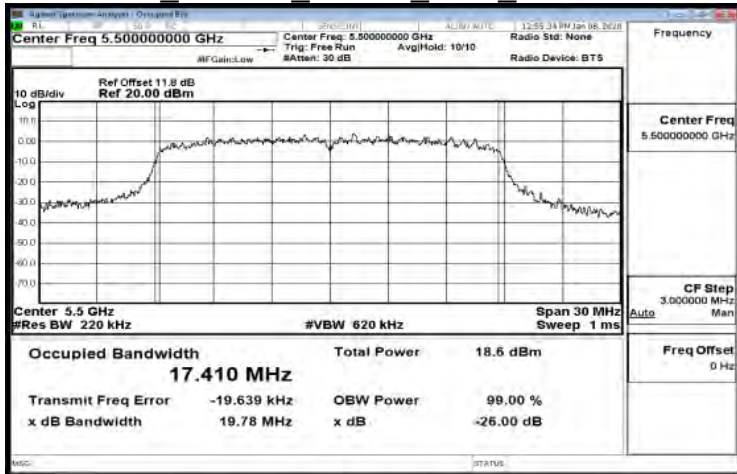
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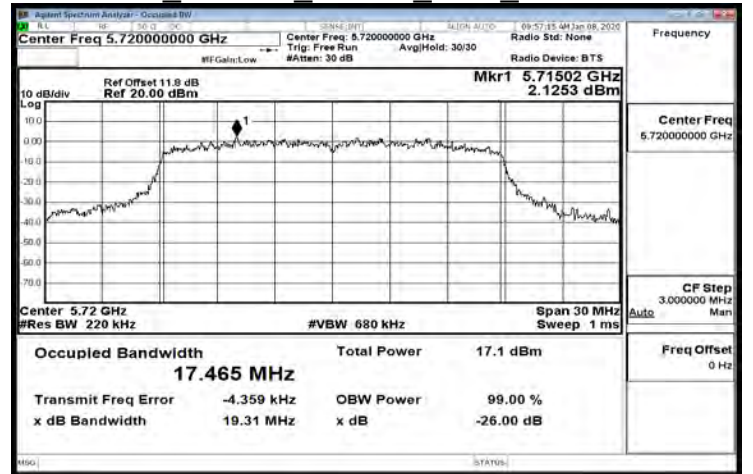
FCC 802.11n 20MHz Main 5700MHz



FCC 802.11n 20MHz Main 5500MHz



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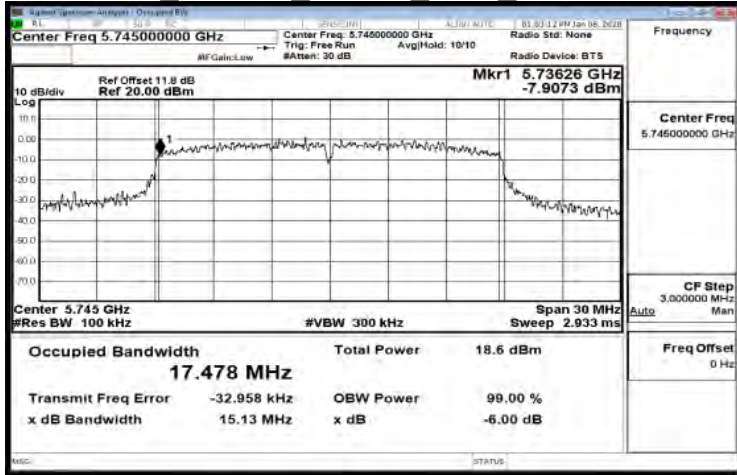


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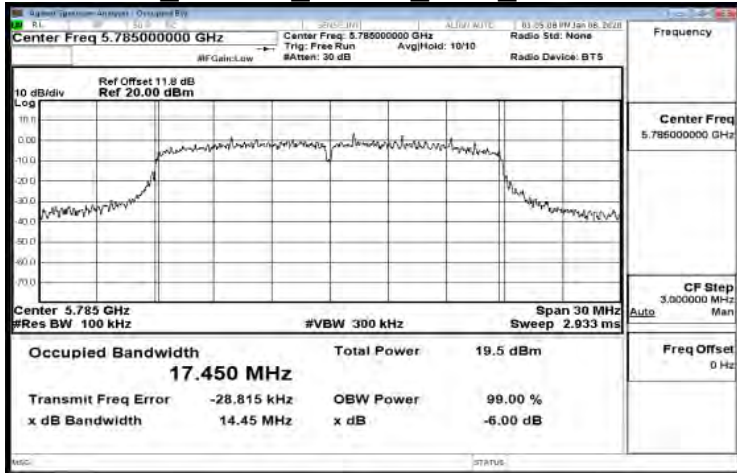
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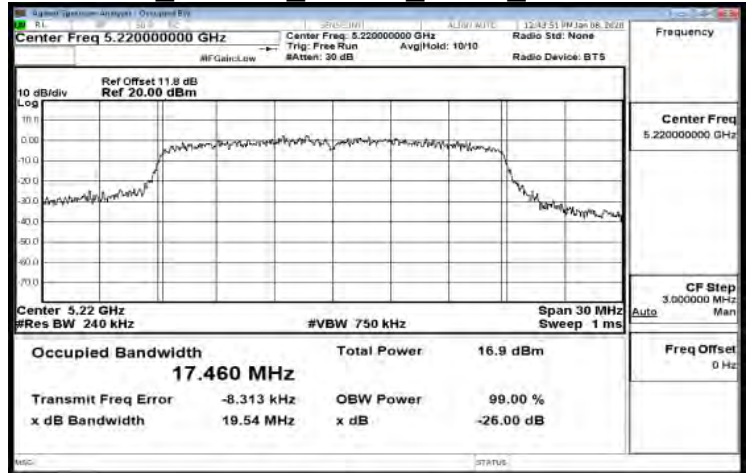
FCC 802.11n 20MHz AUX1 5180MHz



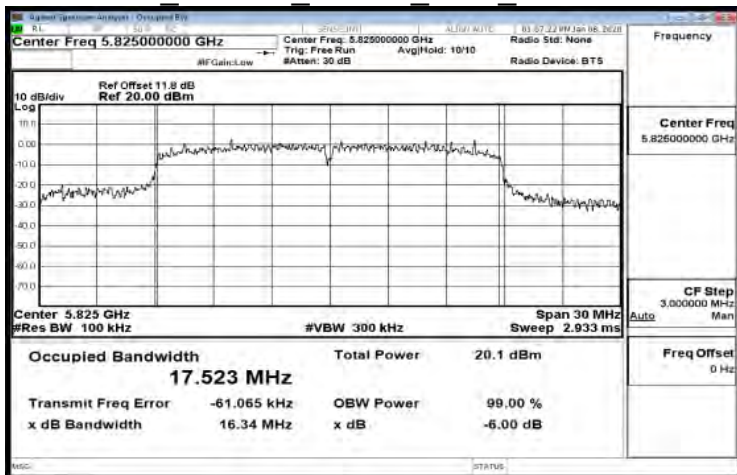
FCC 802.11n 20MHz Main 5785MHz



FCC 802.11n 20MHz AUX1 5220MHz



FCC 802.11n 20MHz Main 5825MHz



FCC 802.11n 20MHz AUX1 5240MHz

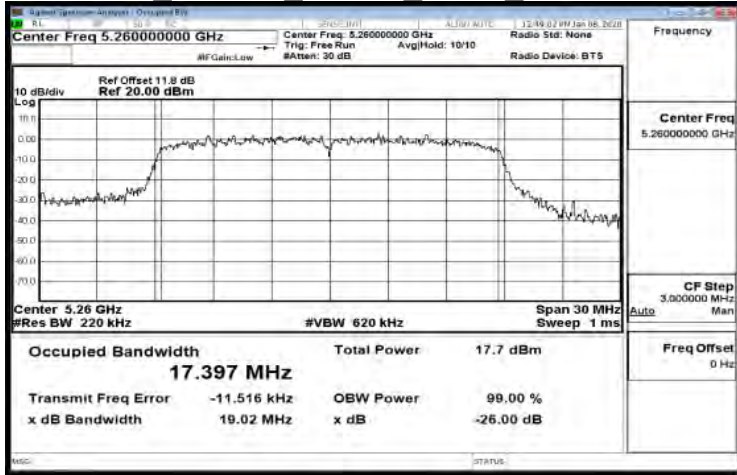


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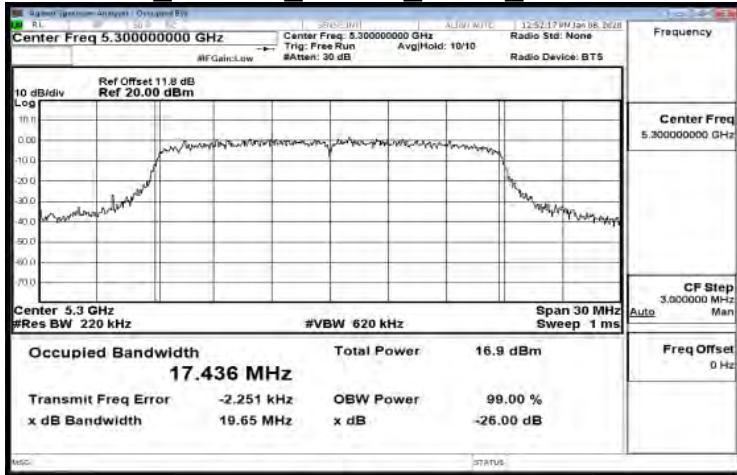
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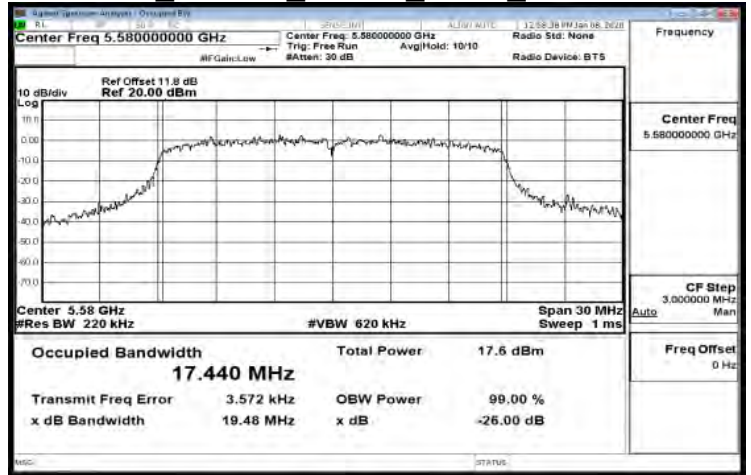
FCC 802.11n 20MHz AUX1 5500MHz



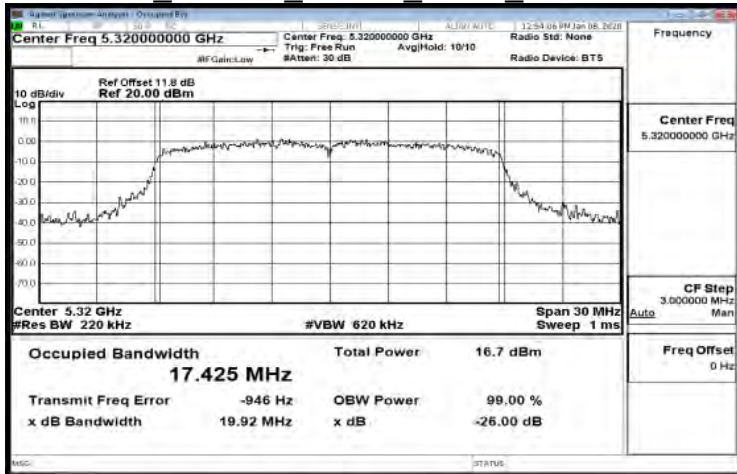
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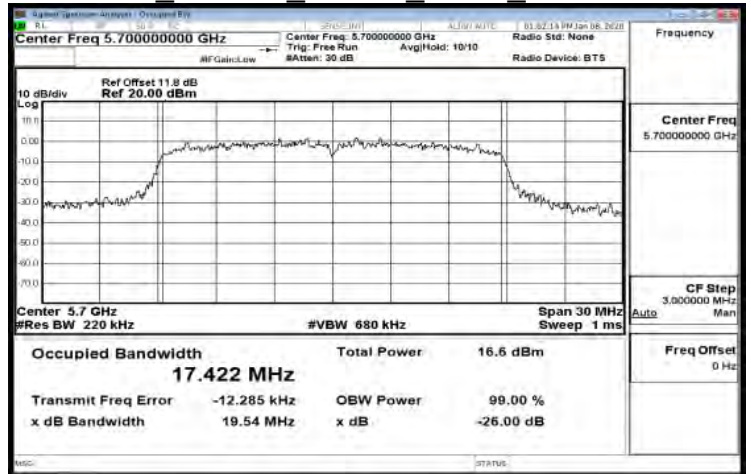
FCC 802.11n 20MHz AUX1 5580MHz



FCC 802.11n 20MHz AUX1 5320MHz



FCC 802.11n 20MHz AUX1 5700MHz

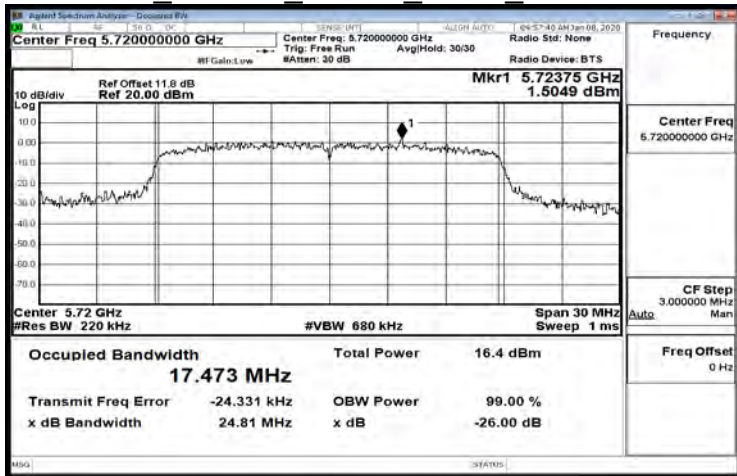


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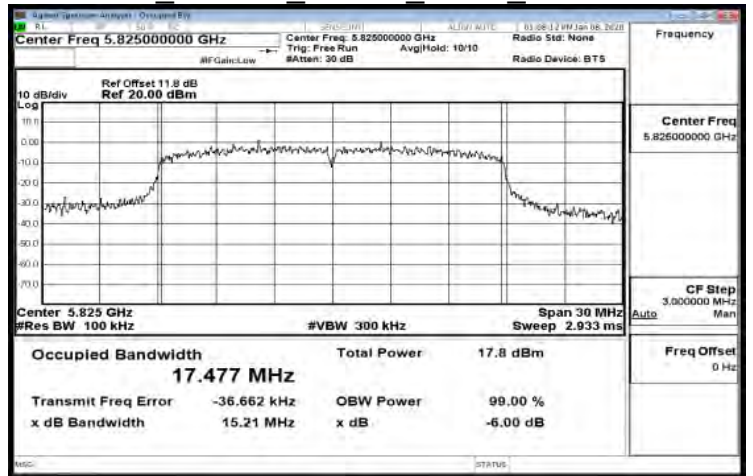
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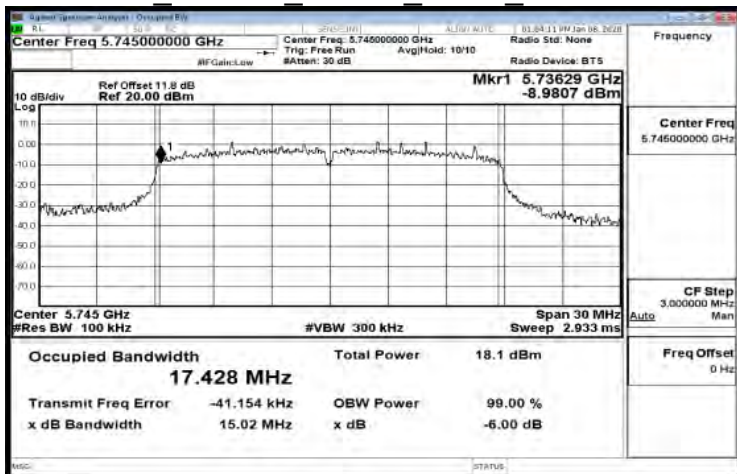
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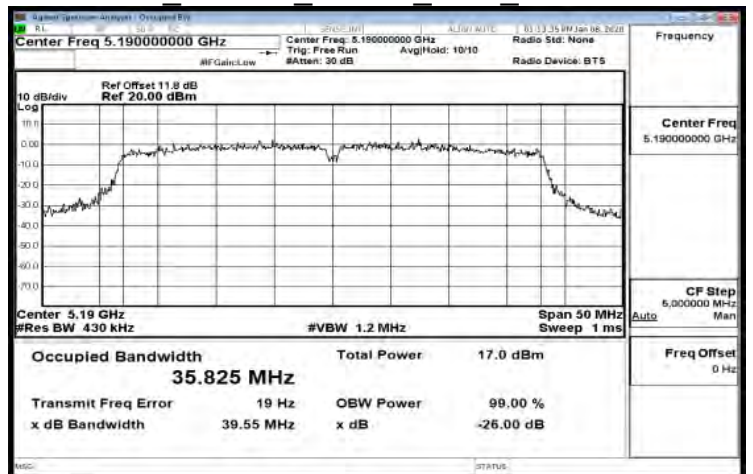
FCC 802.11n 20MHz AUX1 5825MHz



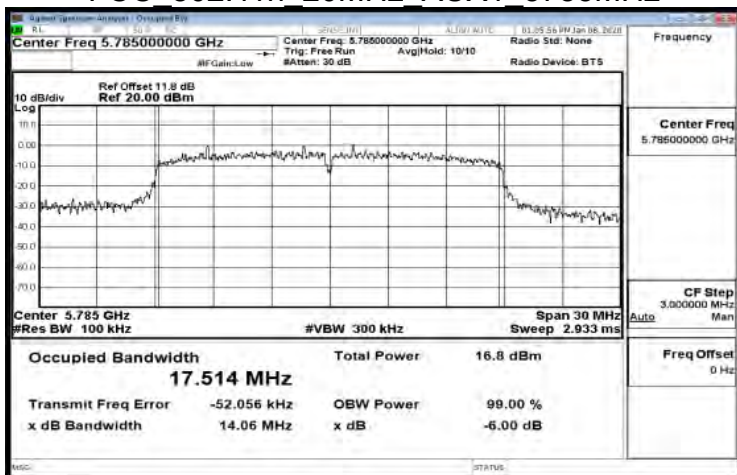
FCC 802.11n 20MHz AUX1 5745MHz



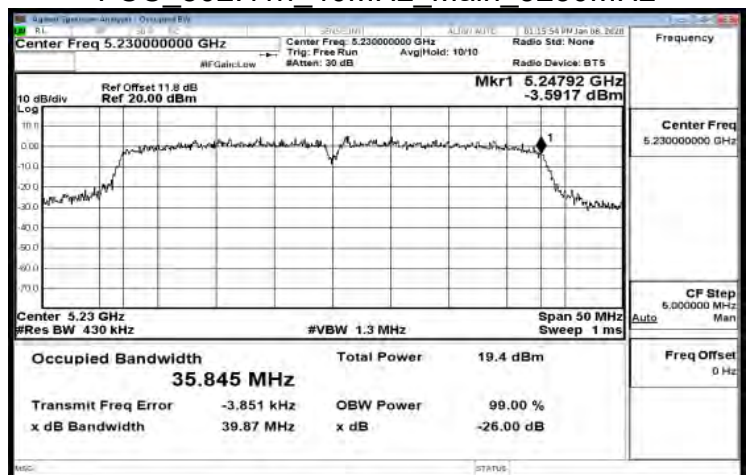
FCC 802.11n 40MHz Main 5190MHz



FCC 802.11n 20MHz AUX1 5785MHz



FCC 802.11n 40MHz Main 5230MHz

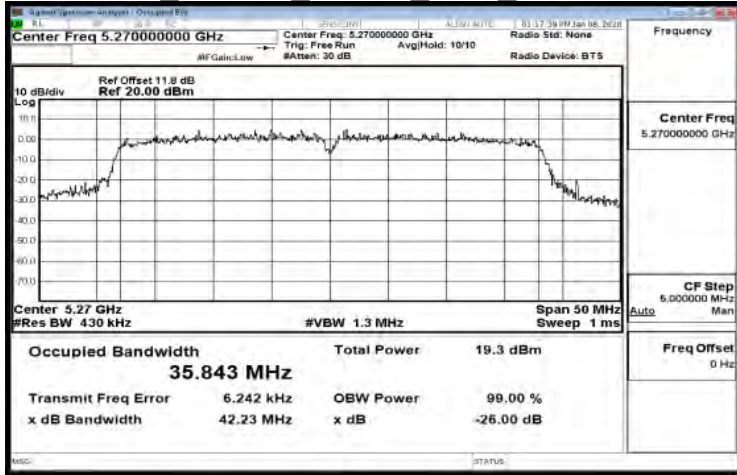


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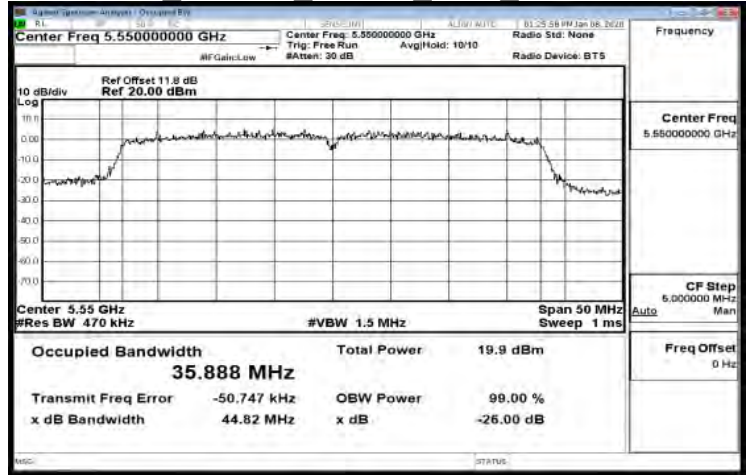
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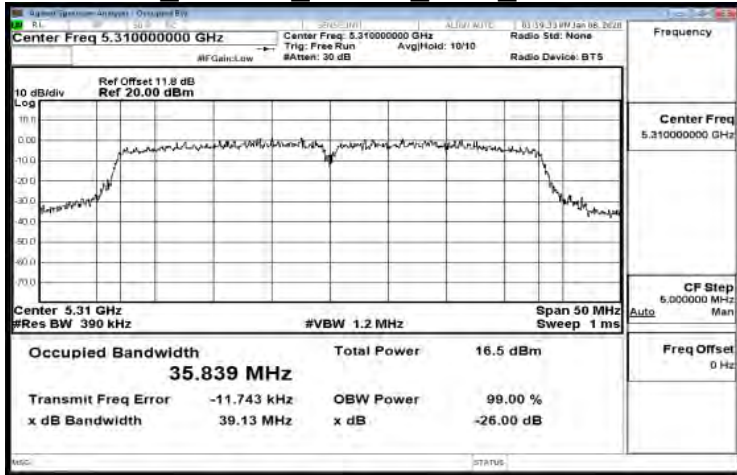
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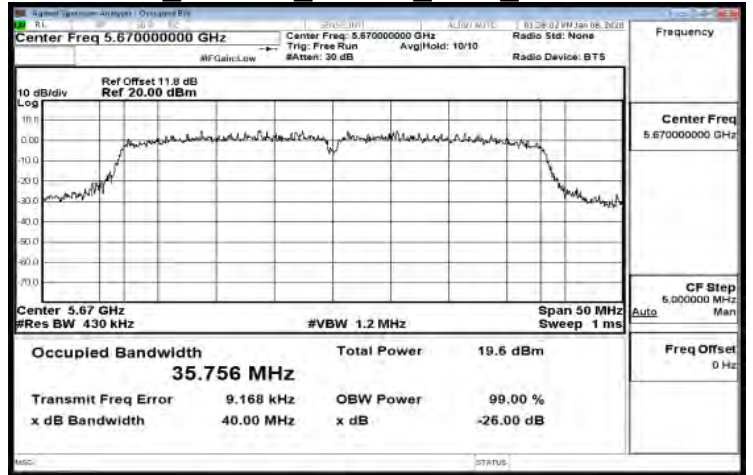
FCC 802.11n 40MHz Main 5550MHz



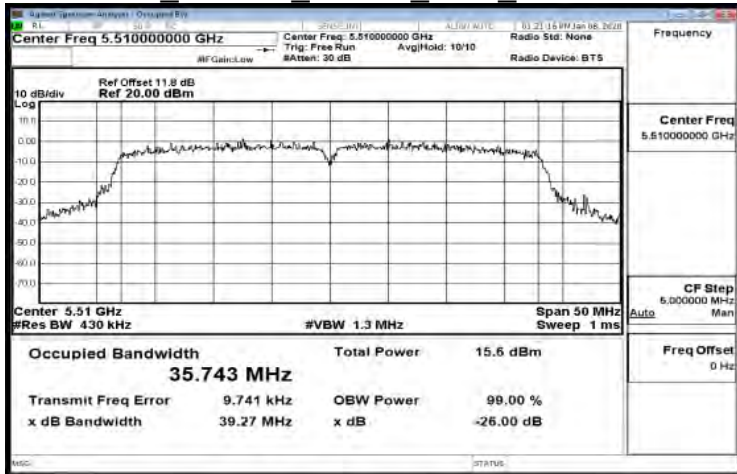
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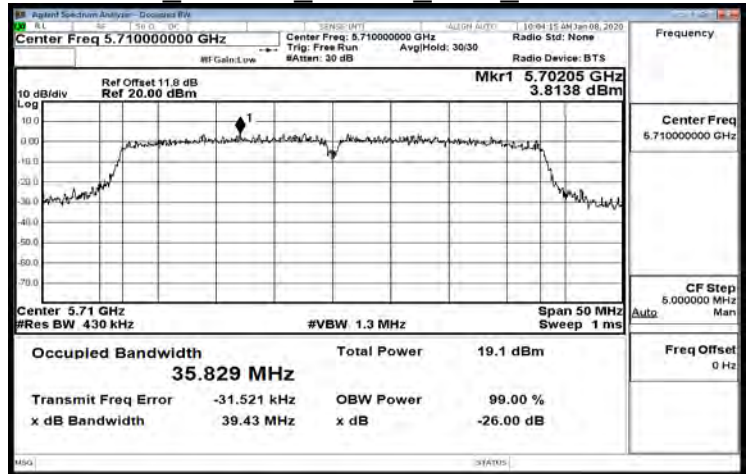
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FCC 802.11n 40MHz Main 5510MHz



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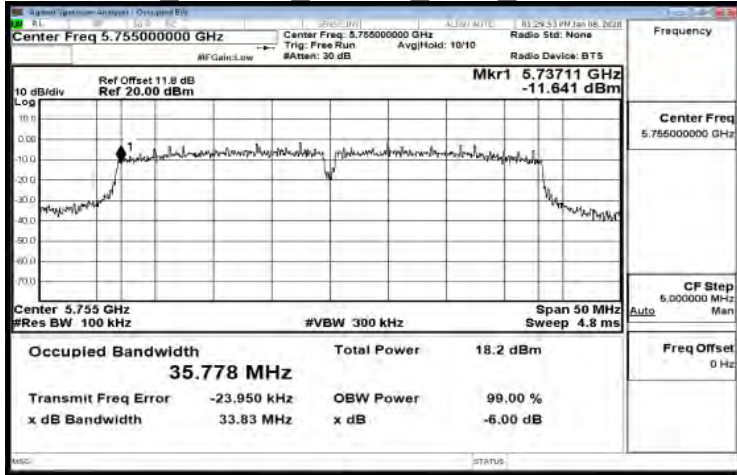


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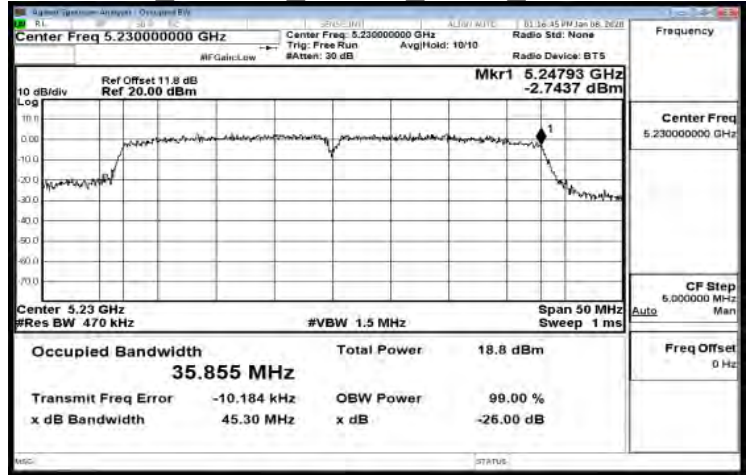
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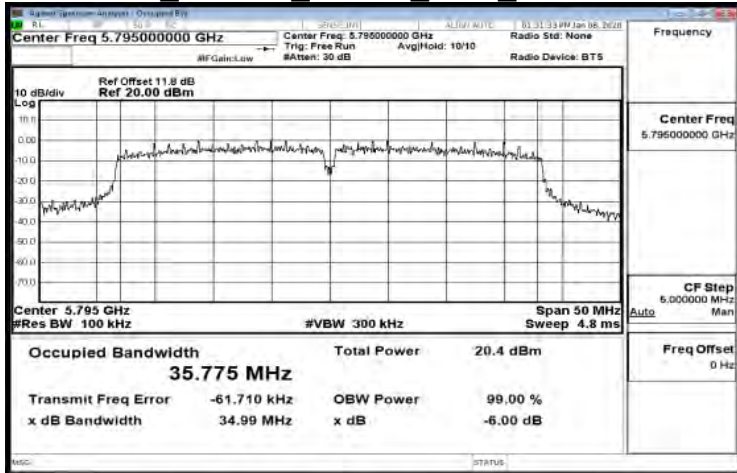
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FCC 802.11n 40MHz AUX1 5230MHz



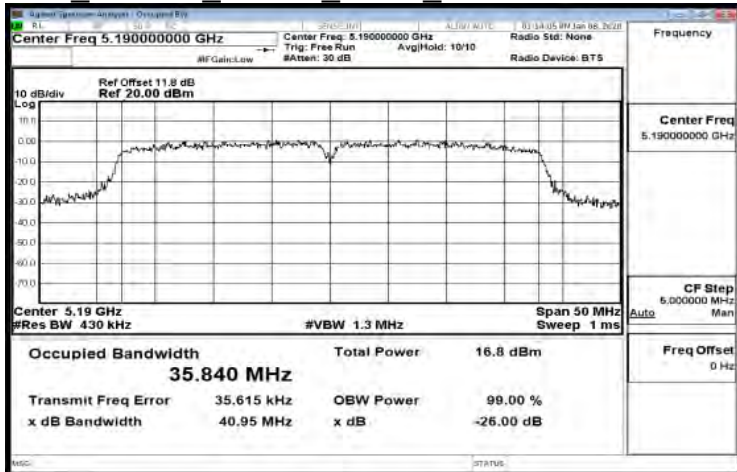
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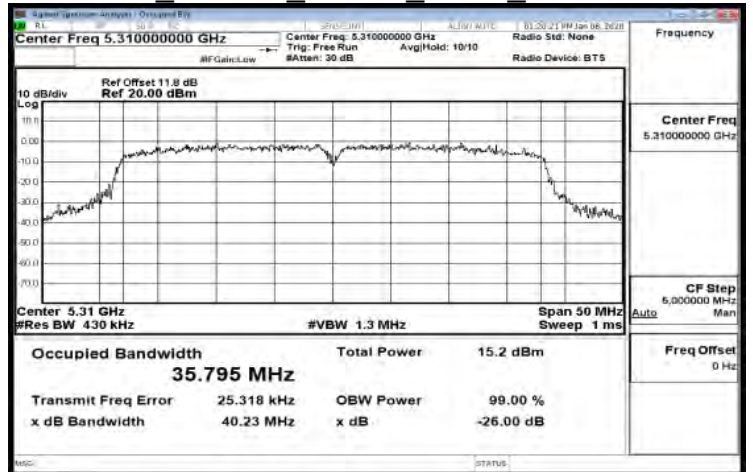
FCC 802.11n 40MHz AUX1 5270MHz



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FCC 802.11n 40MHz AUX1 5310MHz

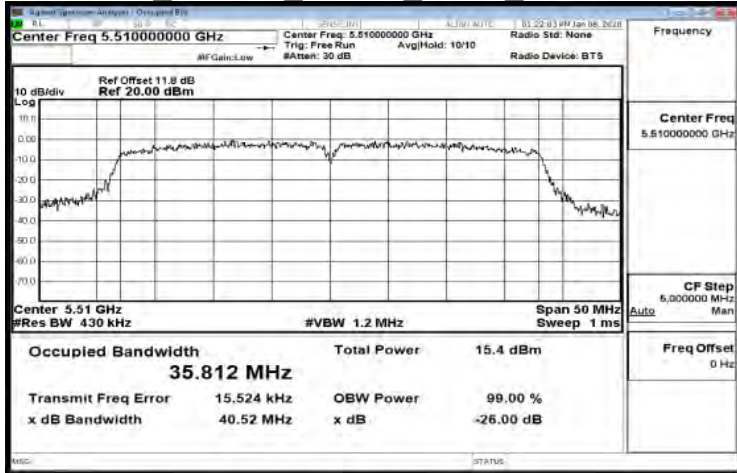


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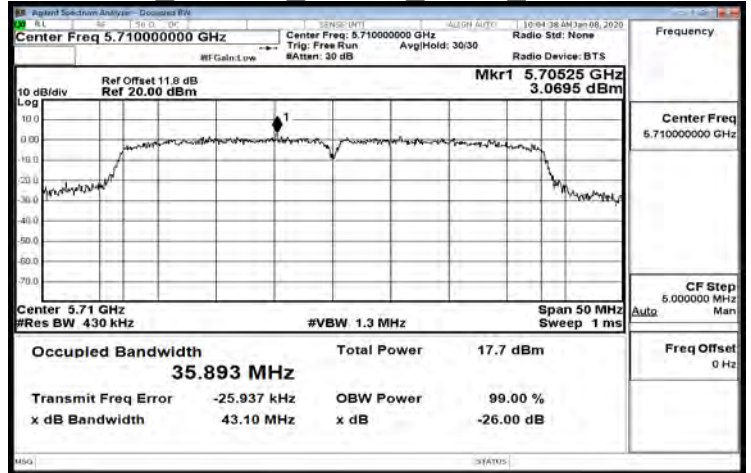
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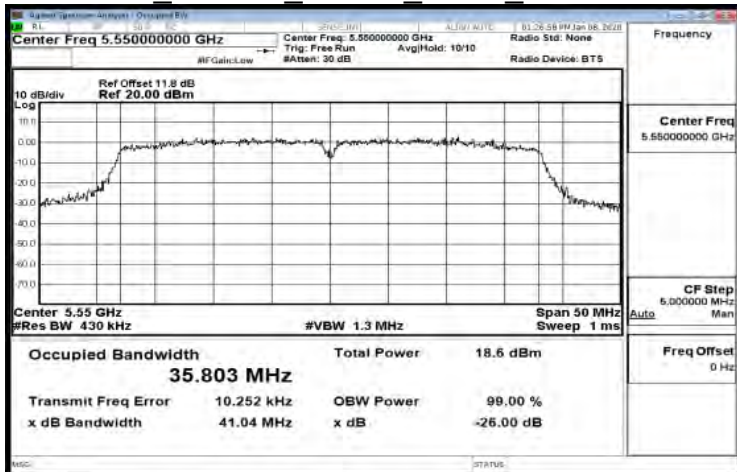
FCC 802.11n 40MHz AUX1 5510MHz



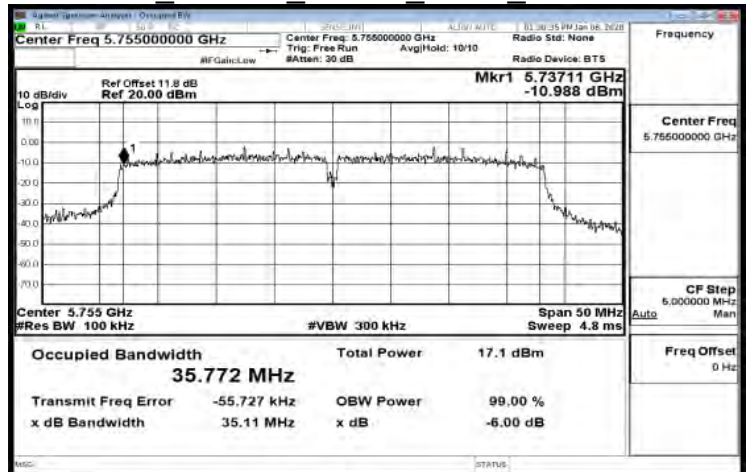
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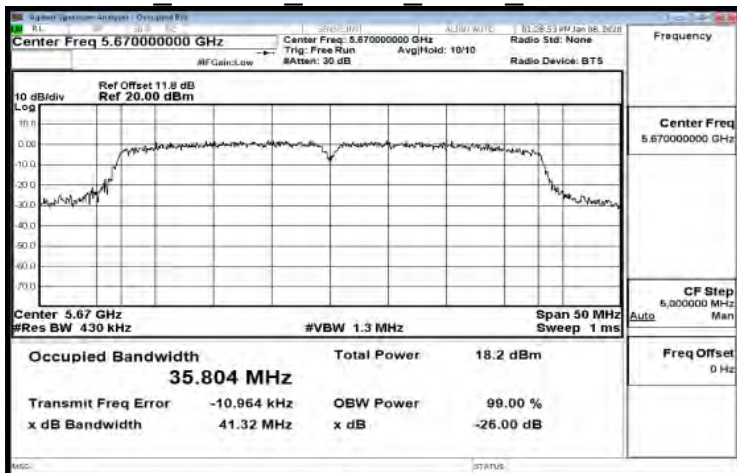
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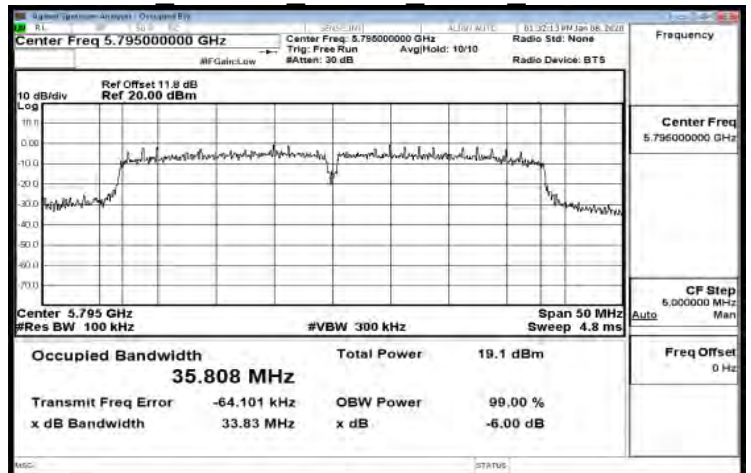
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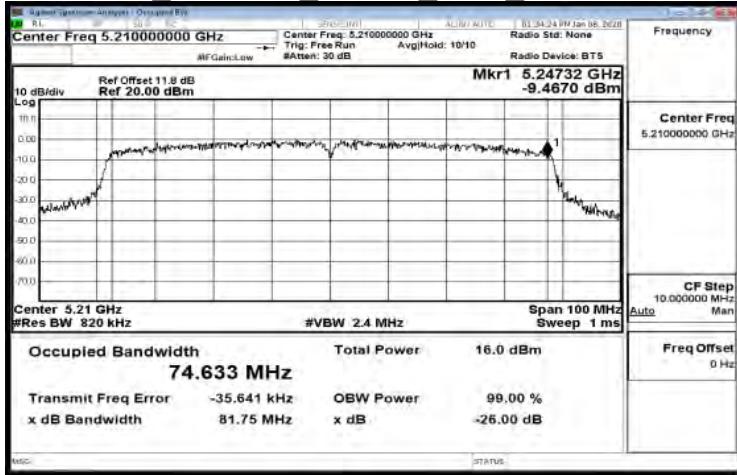


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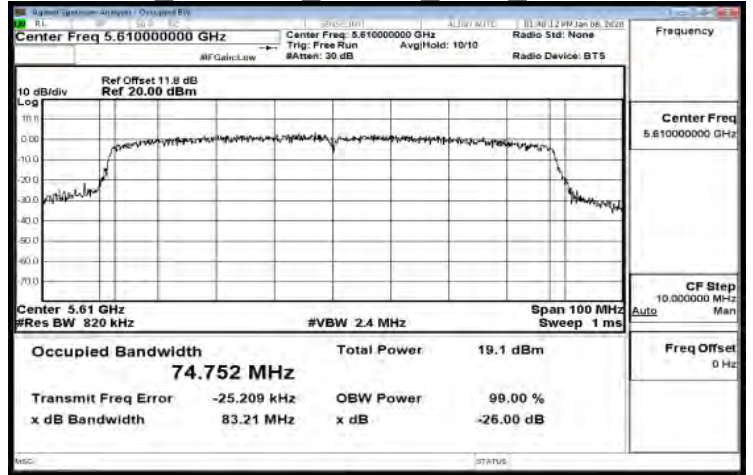
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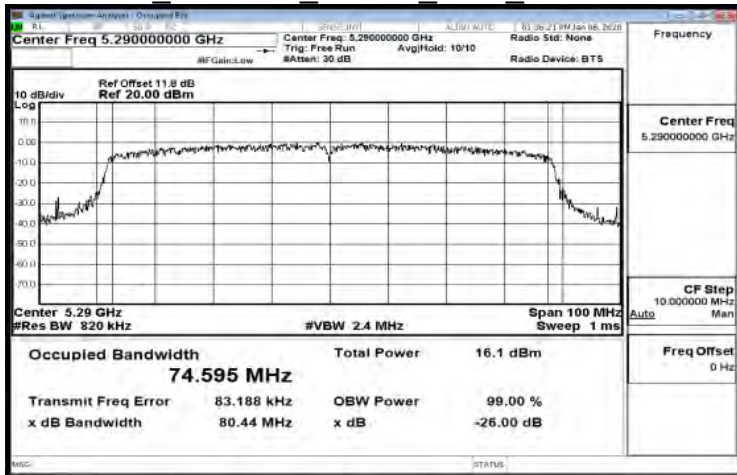
FCC 802.11ac 80MHz Main 5210MHz



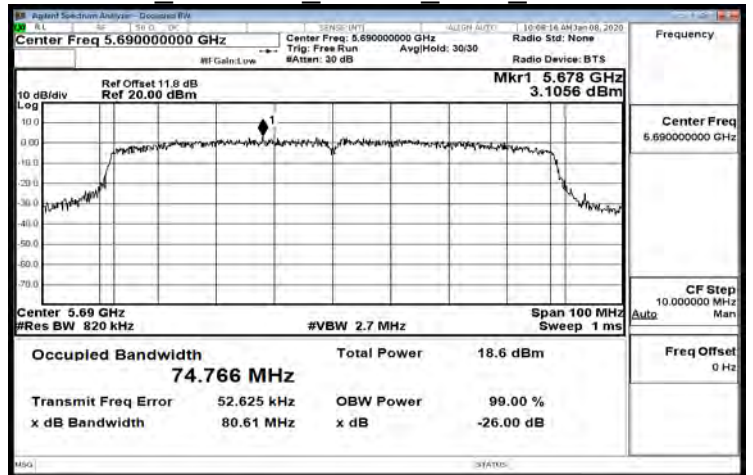
FCC 802.11ac 80MHz Main 5610MHz



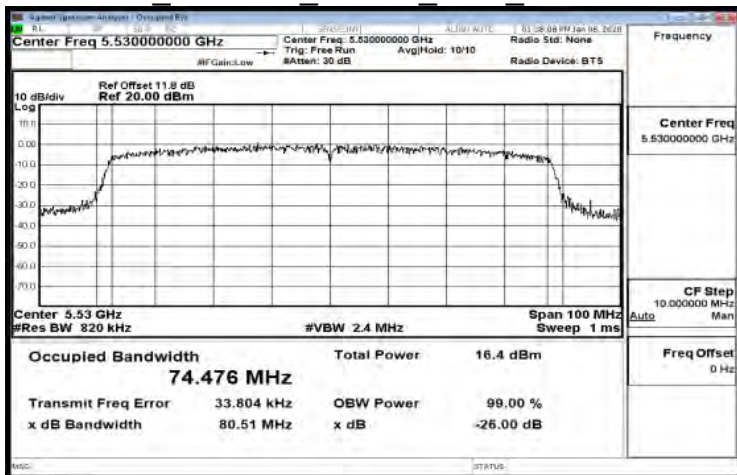
FCC 802.11ac 80MHz Main 5290MHz



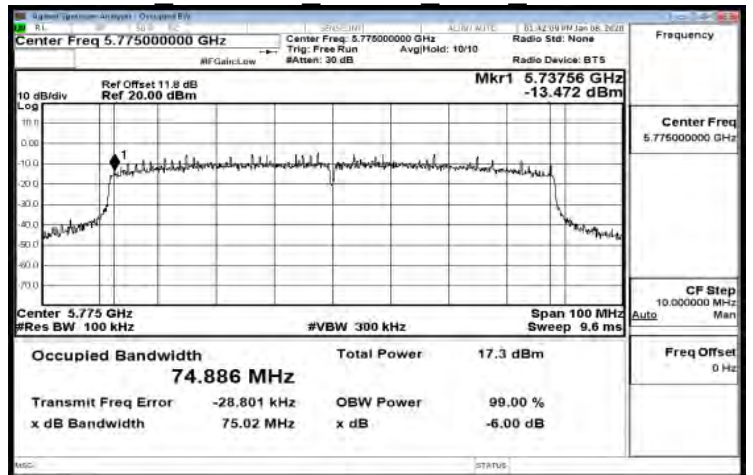
FCC 802.11ac 80MHz Main 5690MHz



FCC 802.11ac 80MHz Main 5530MHz



FCC 802.11ac 80MHz Main 5775MHz

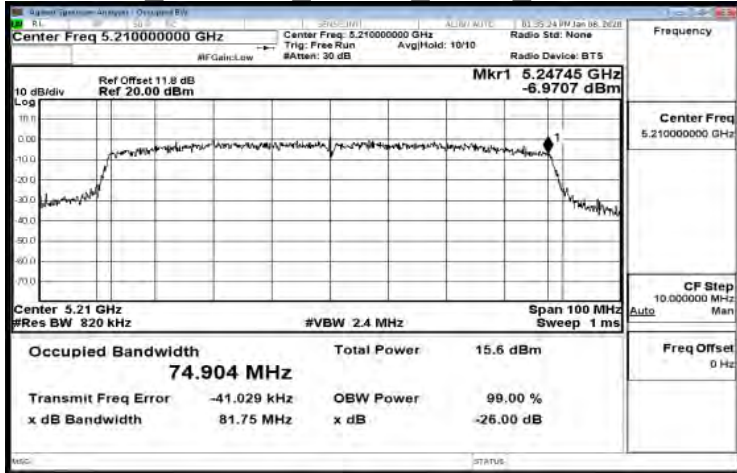


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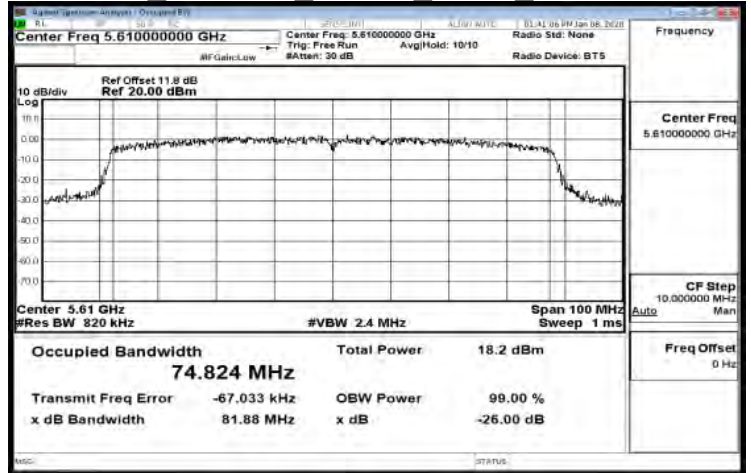
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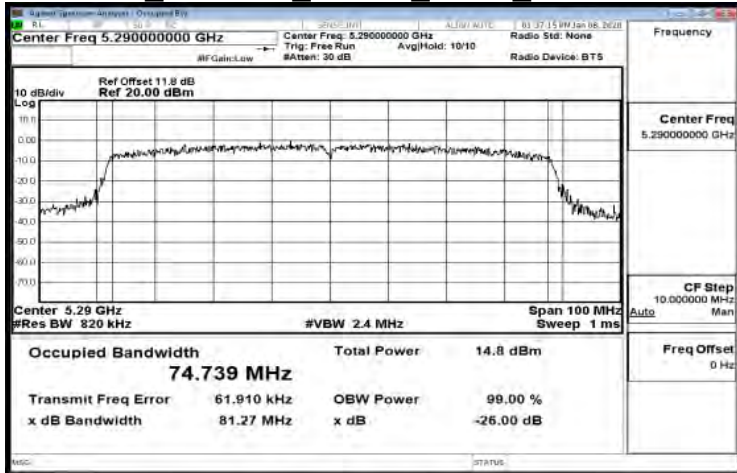
FCC 802.11ac 80MHz AUX1 5210MHz



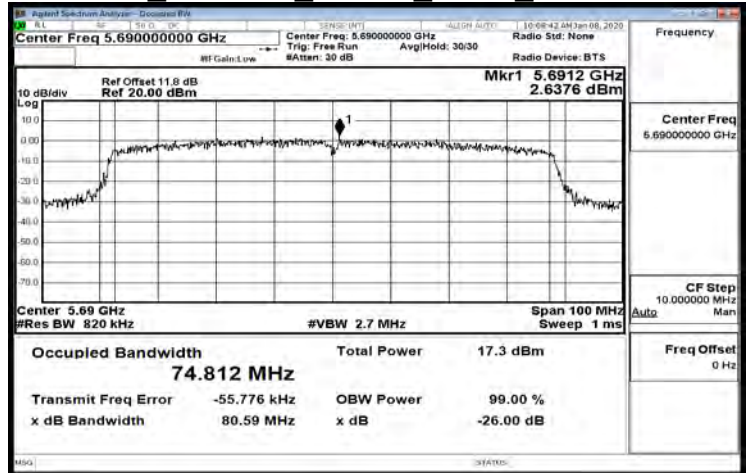
FCC 802.11ac 80MHz AUX1 5610MHz



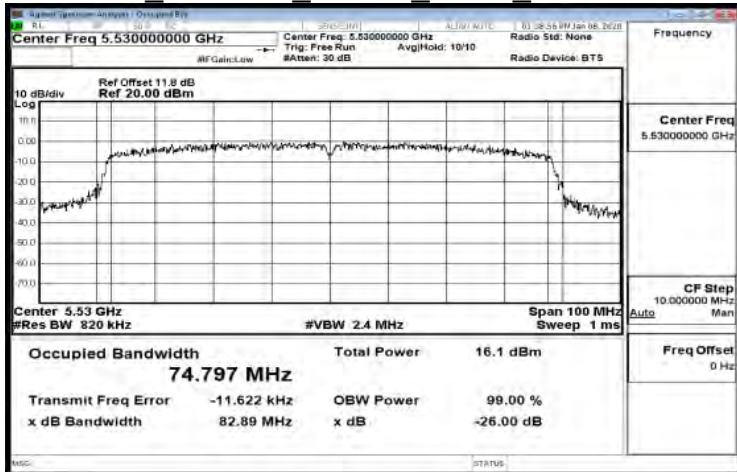
FCC 802.11ac 80MHz AUX1 5290MHz



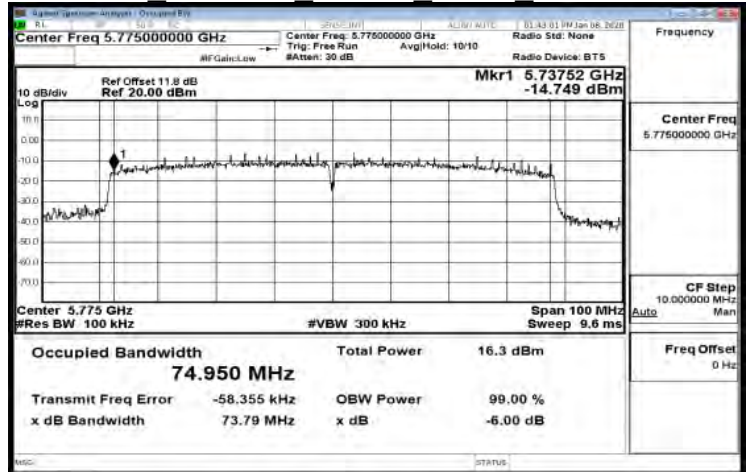
FCC 802.11ac 80MHz AUX1 5690MHz



FCC 802.11ac 80MHz AUX1 5530MHz



FCC 802.11ac 80MHz AUX1 5775MHz

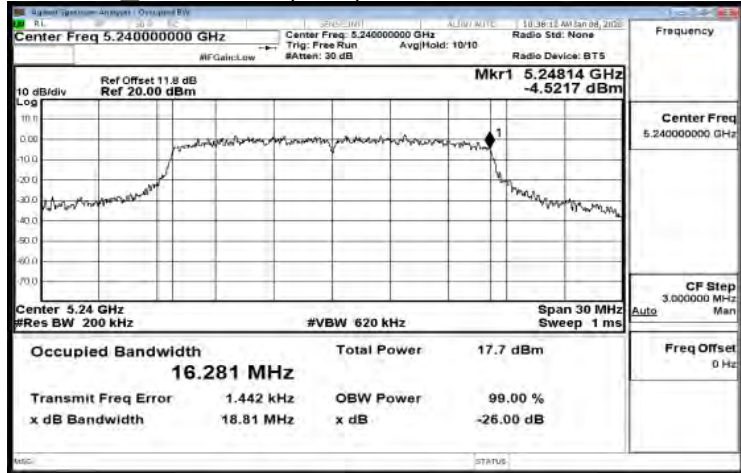


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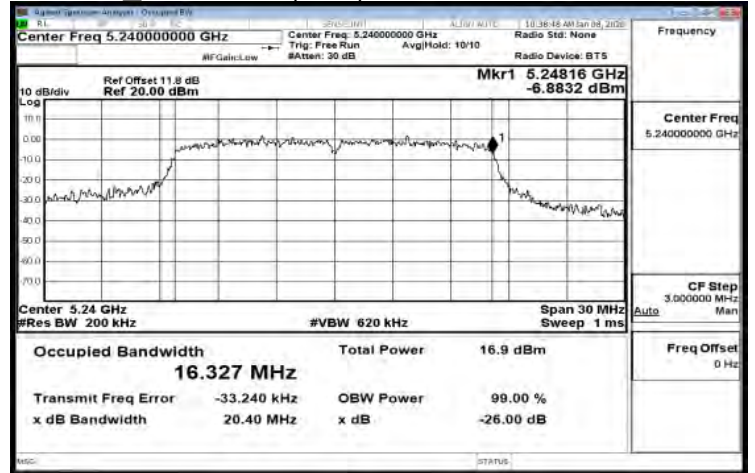
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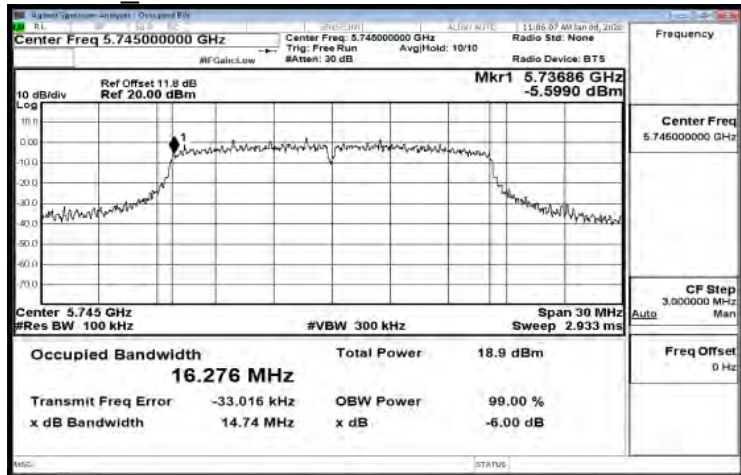
802.11a 5240MHz (Ch0)



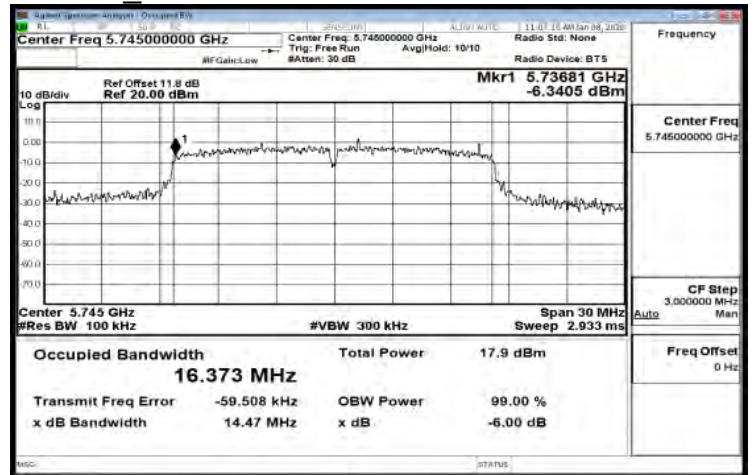
802.11a 5240MHz (Ch1)



802.11a 5745MHz



802.11a 5745MHz

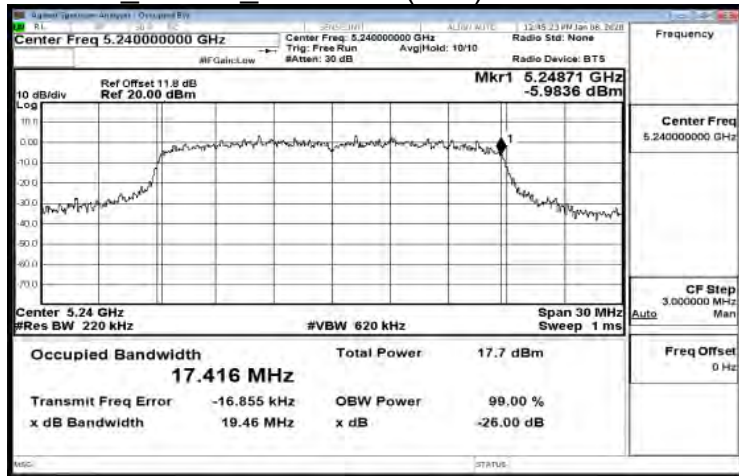


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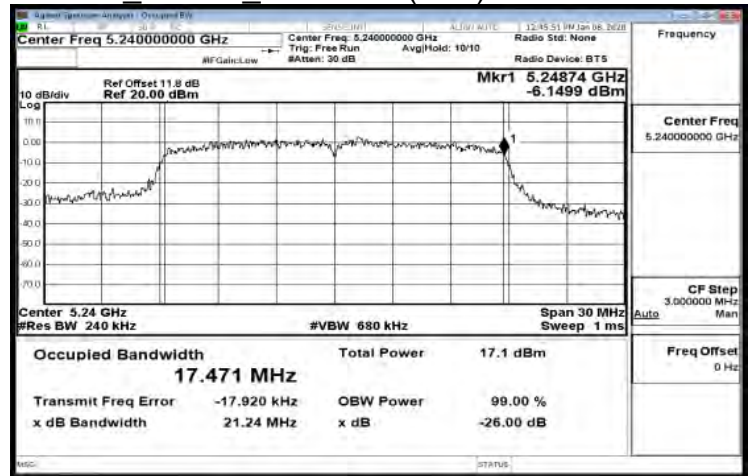
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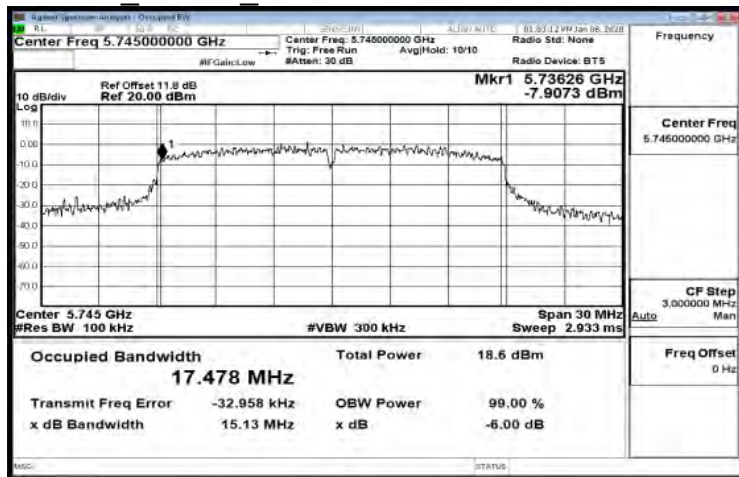
802.11n 20MHz 5240MHz (Ch0)



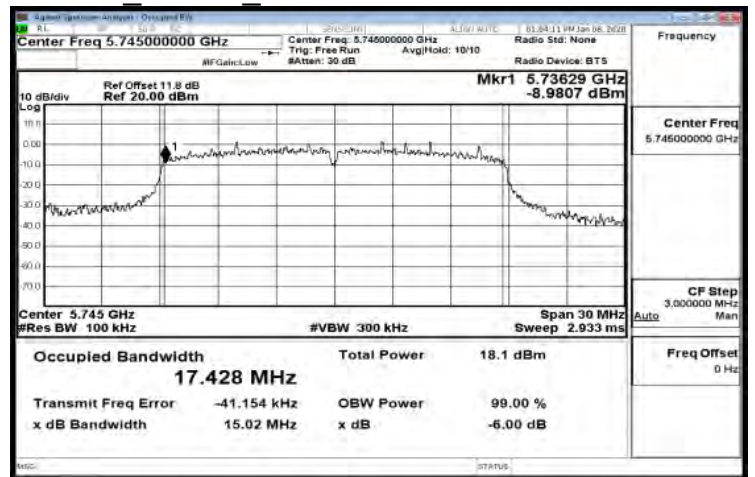
802.11n 20MHz 5240MHz (Ch1)



802.11n 20MHz 5745MHz



802.11n 20MHz 5745MHz

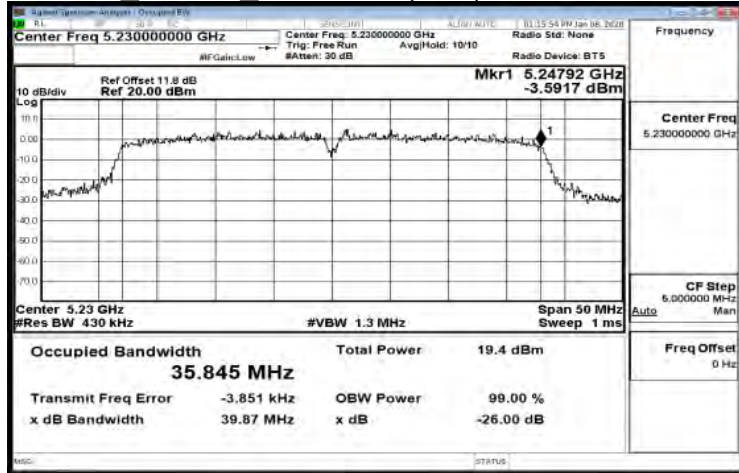


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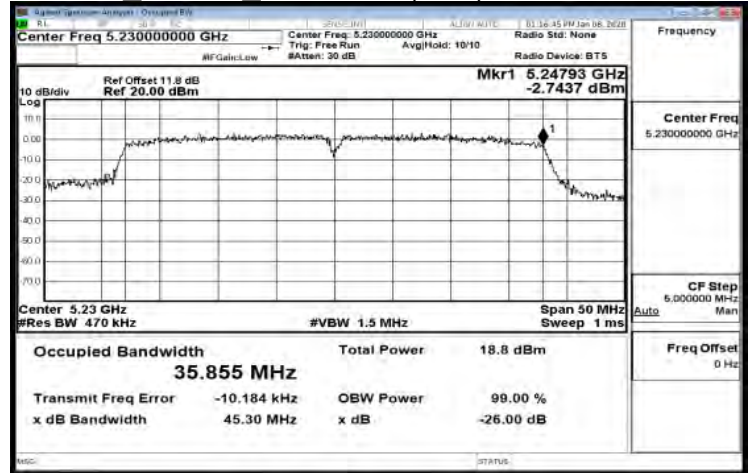
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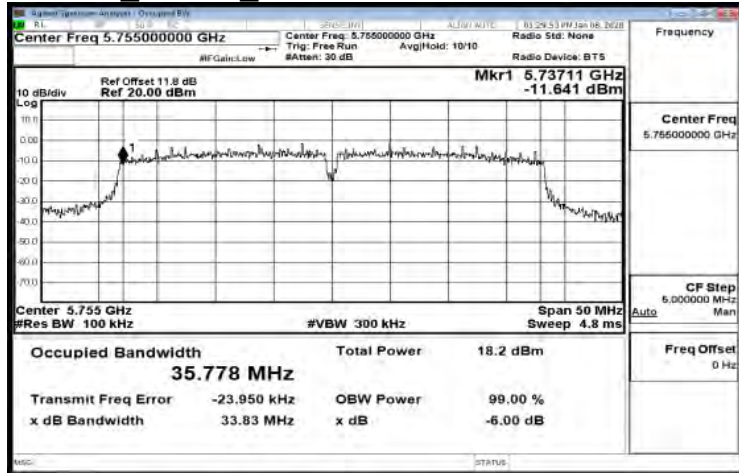
802.11n 40MHz 5230MHz (Ch0)



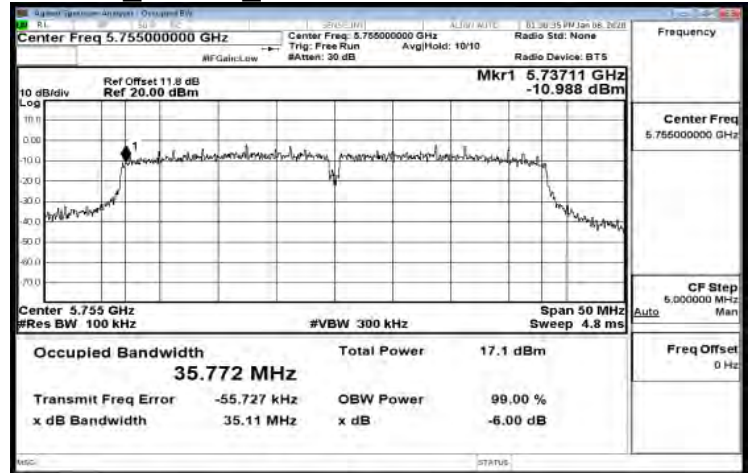
802.11n 40MHz 5230MHz (Ch1)



802.11n 40MHz 5755MHz



802.11n 40MHz 5755MHz

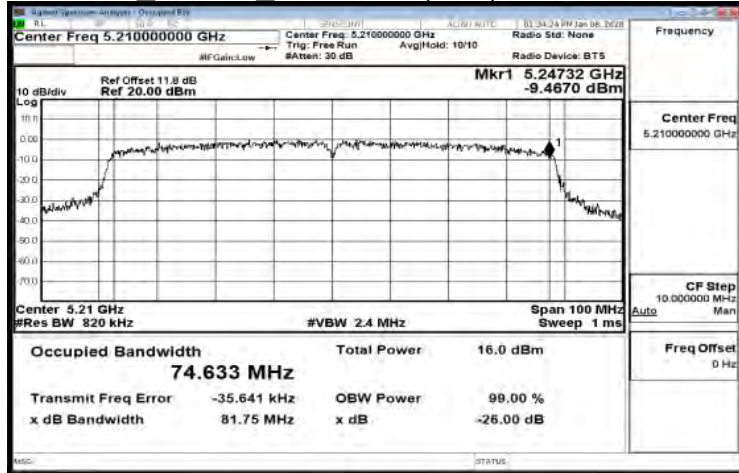


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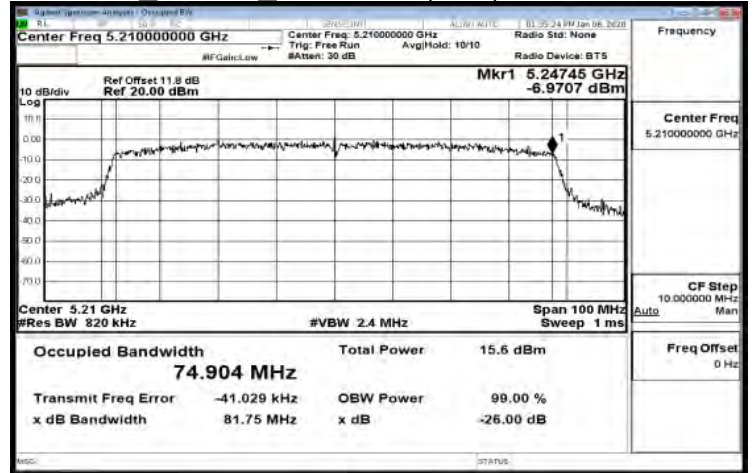
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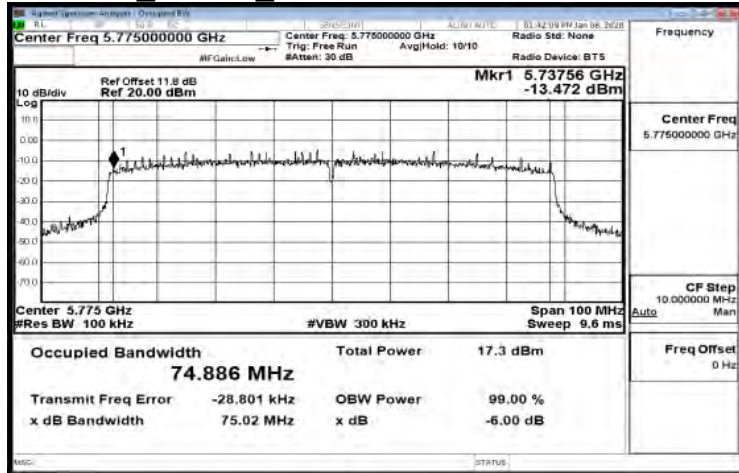
802.11ac 80MHz 5210MHz (Ch0)



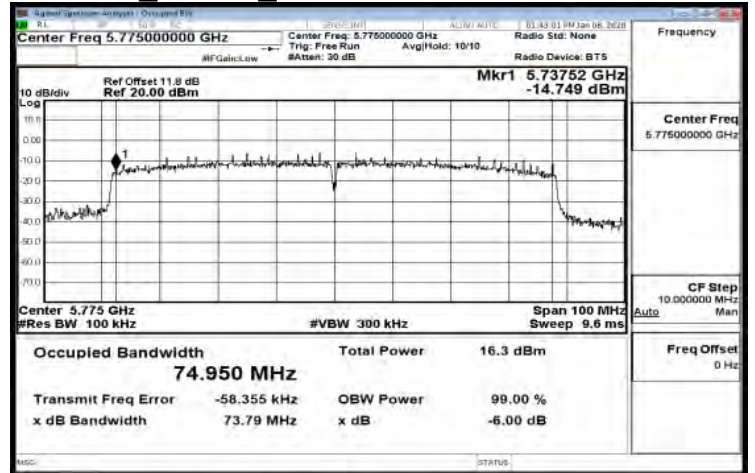
802.11ac 80MHz 5210MHz (Ch1)



802.11ac 80MHz 5775MHz



802.11ac 80MHz 5775MHz

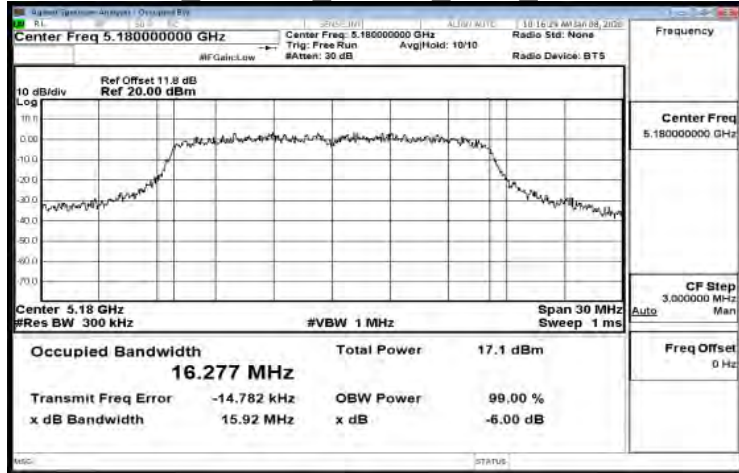


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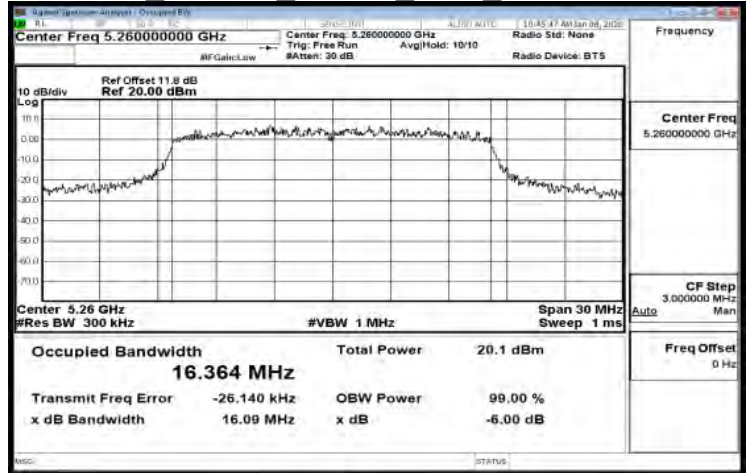
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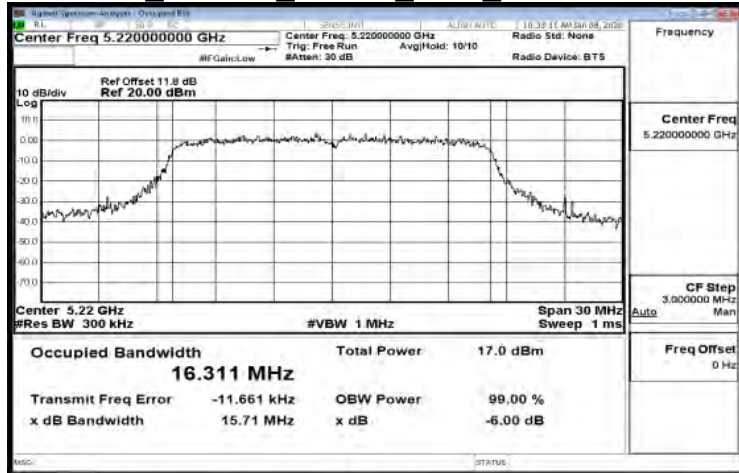
For 99%, IC 802.11a 20MHz Main 5180MHz



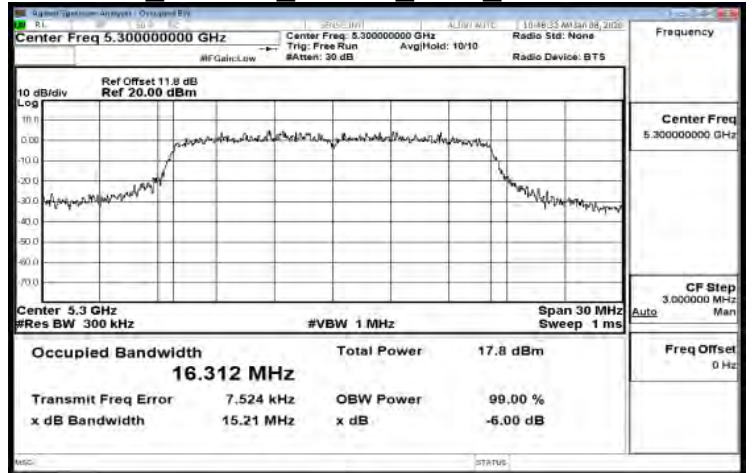
IC 802.11a 20MHz Main 5260MHz



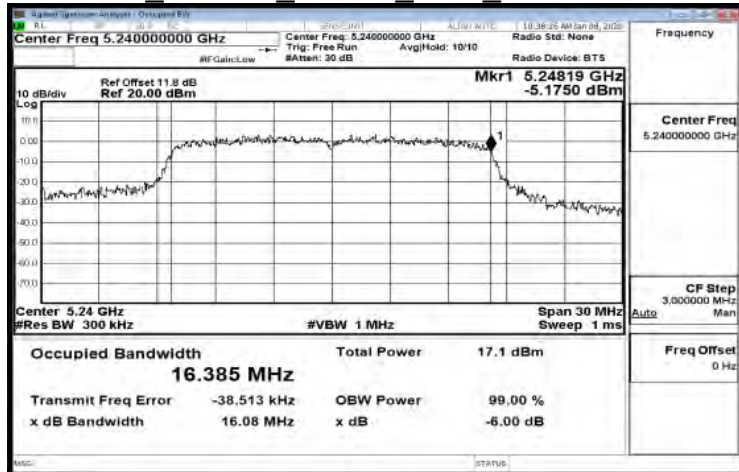
IC 802.11a 20MHz Main 5220MHz



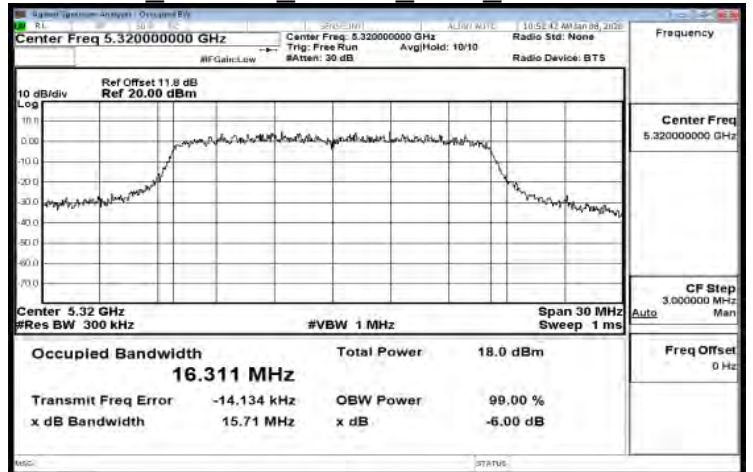
IC 802.11a 20MHz Main 5300MHz



IC 802.11a 20MHz Main 5240MHz



IC 802.11a 20MHz Main 5320MHz

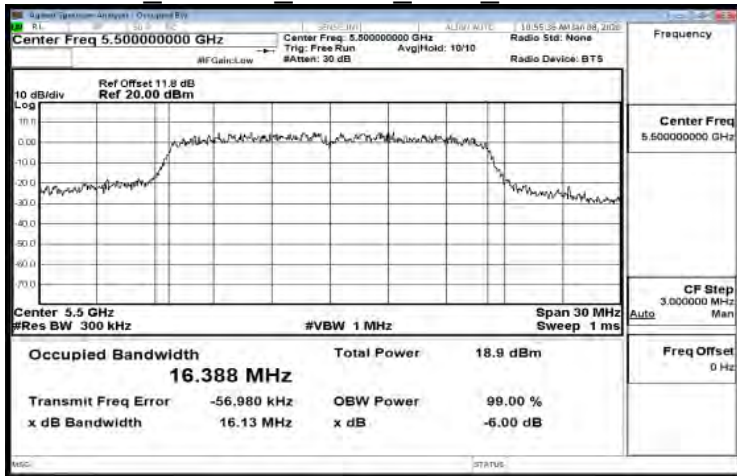


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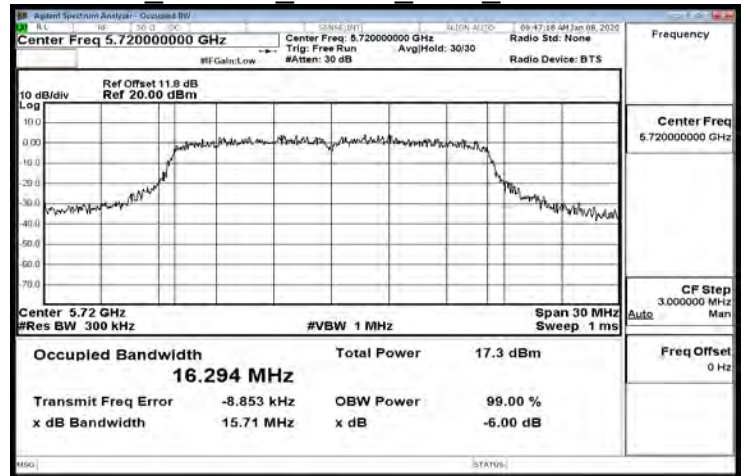
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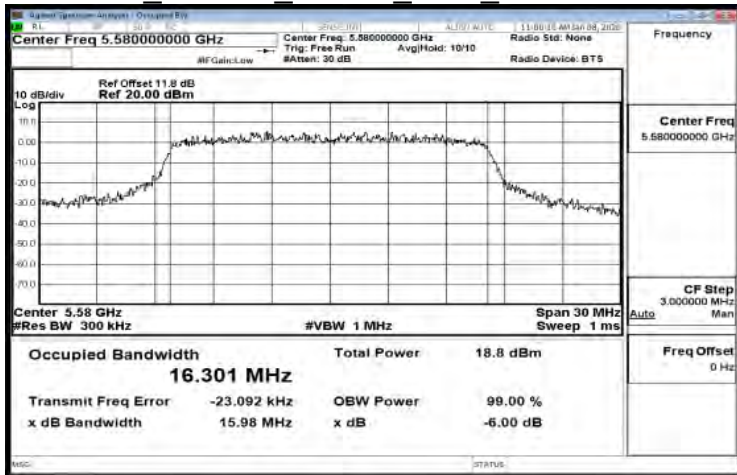
IC 802.11a 20MHz Main 5500MHz



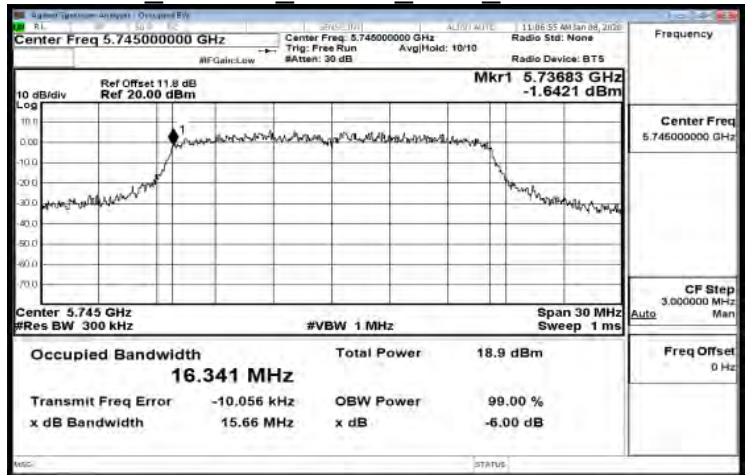
IC 802.11a 20MHz Main 5720MHz



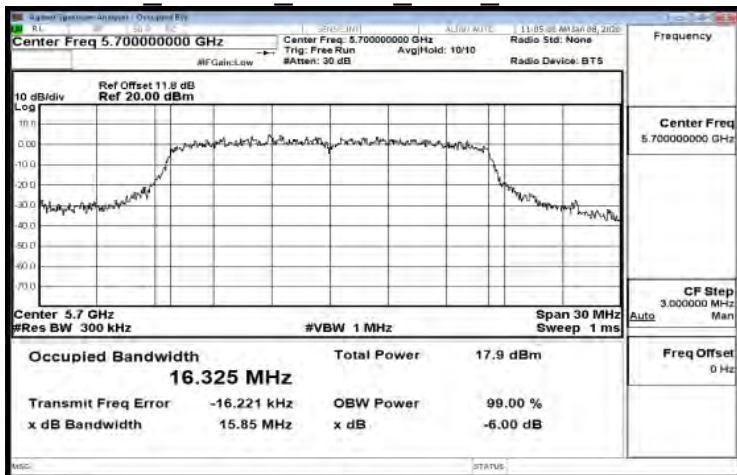
IC 802.11a 20MHz Main 5580MHz



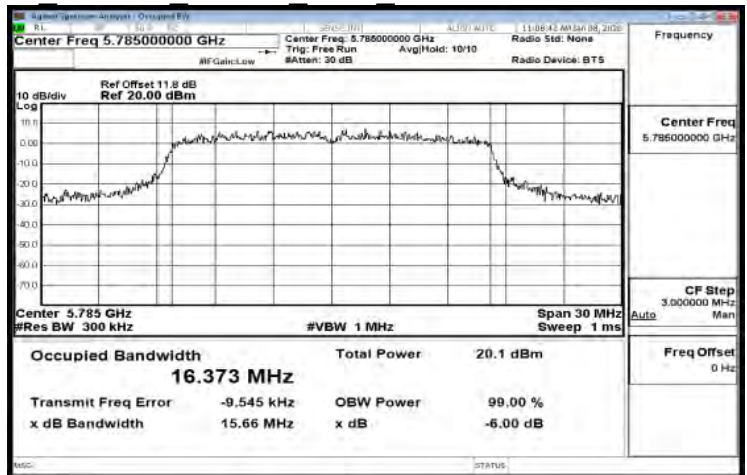
IC 802.11a 20MHz Main 5745MHz



IC 802.11a 20MHz Main 5700MHz



IC 802.11a 20MHz Main 5785MHz

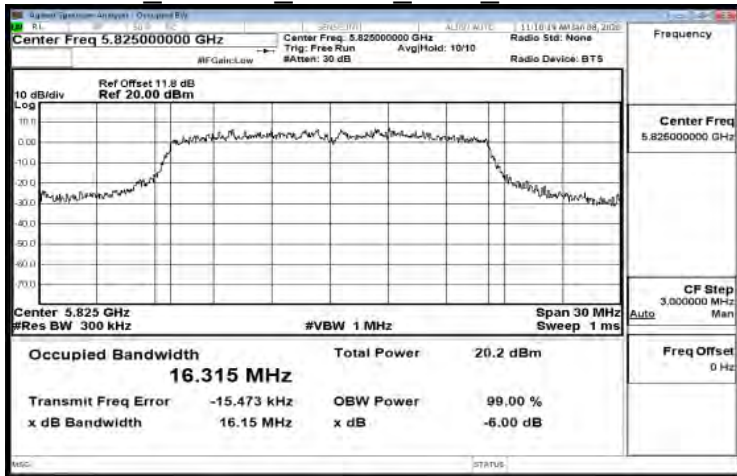


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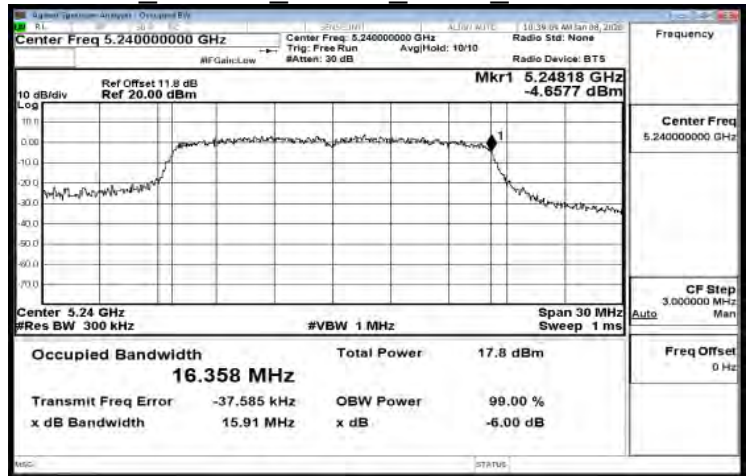
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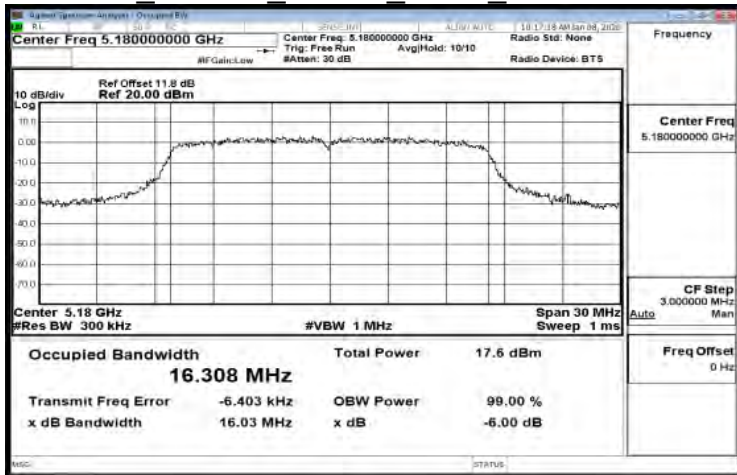
IC 802.11a 20MHz Main 5825MHz



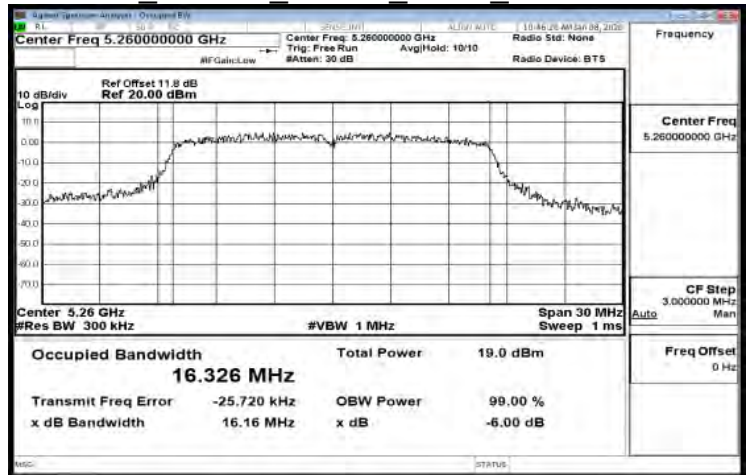
IC 802.11a 20MHz AUX1 5240MHz



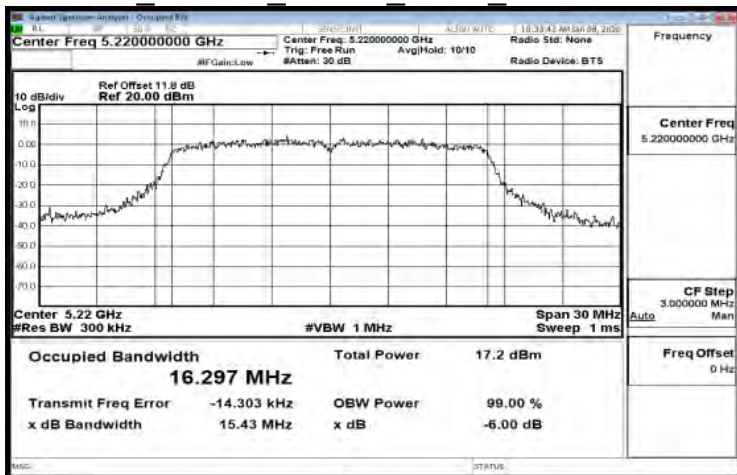
IC 802.11a 20MHz AUX1 5180MHz



IC 802.11a 20MHz AUX1 5260MHz



IC 802.11a 20MHz AUX1 5220MHz



IC 802.11a 20MHz AUX1 5300MHz

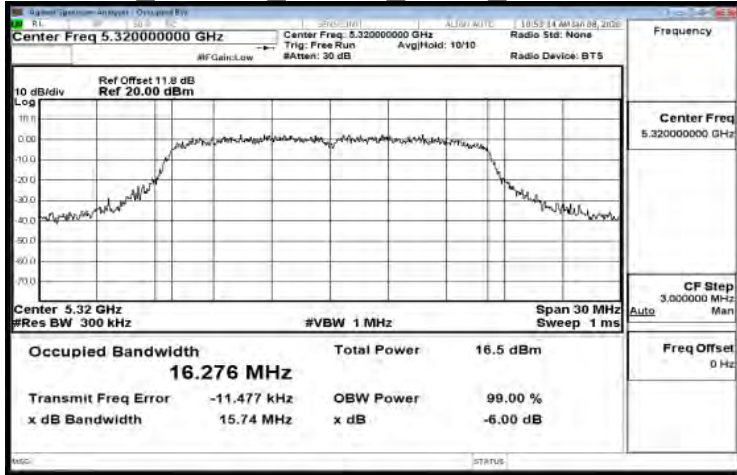


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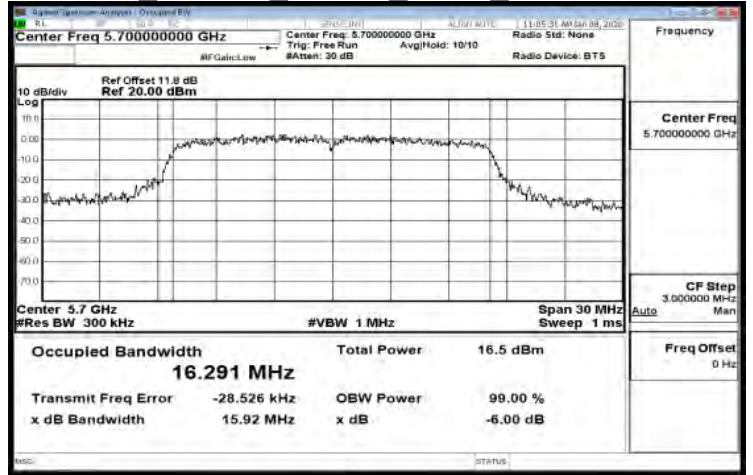
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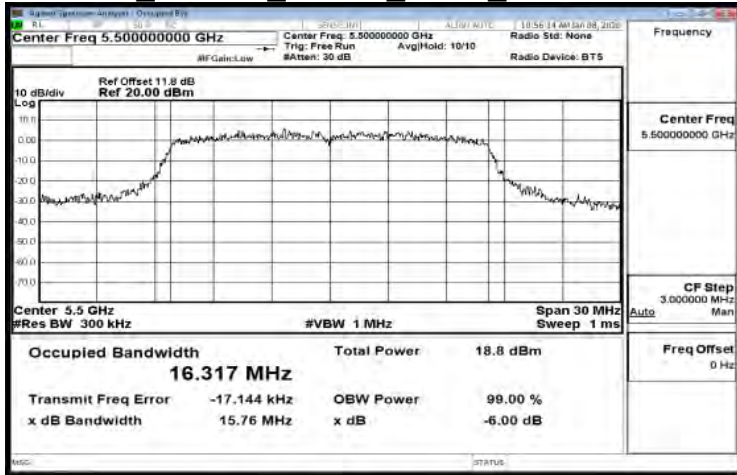
IC 802.11a 20MHz AUX1 5320MHz



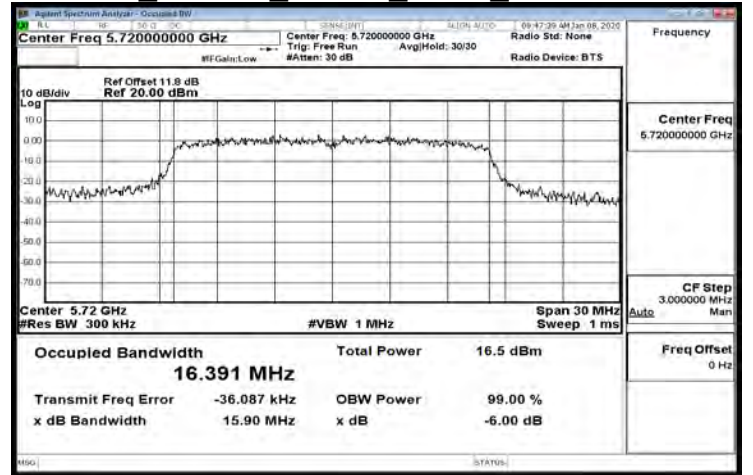
IC 802.11a 20MHz AUX1 5700MHz



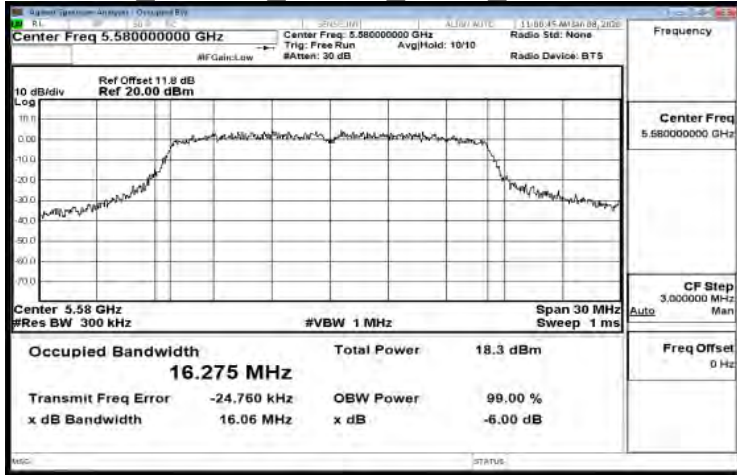
IC 802.11a 20MHz AUX1 5500MHz



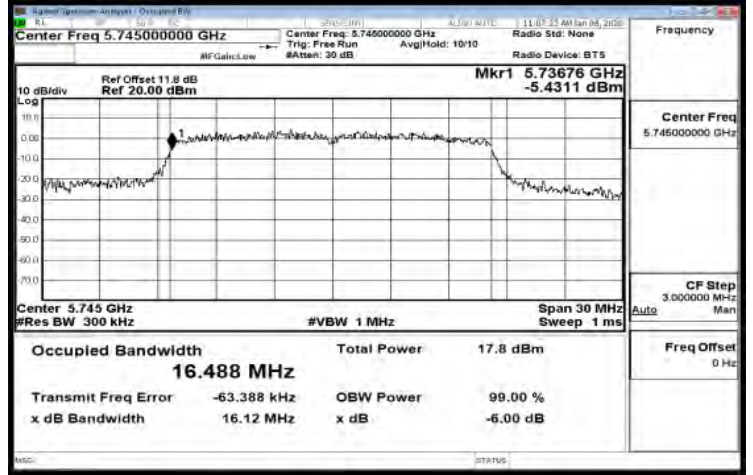
IC 802.11a 20MHz AUX1 5720MHz



IC 802.11a 20MHz AUX1 5580MHz



IC 802.11a 20MHz AUX1 5745MHz

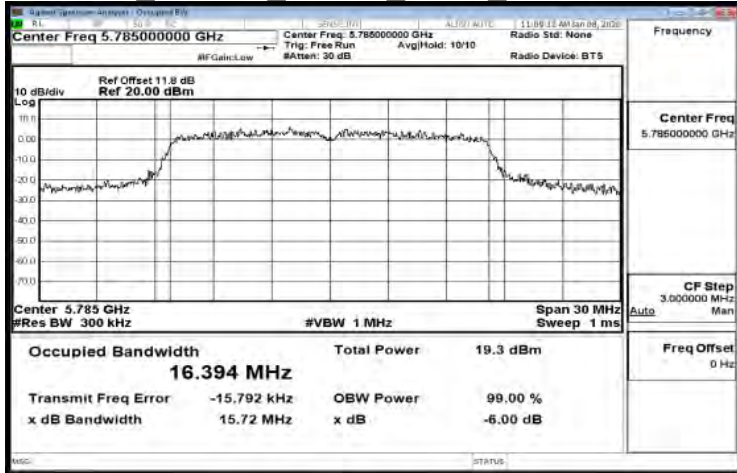


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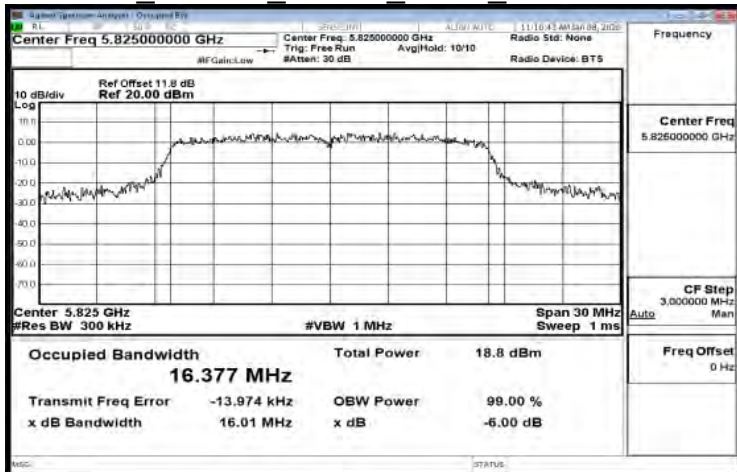
IC 802.11a 20MHz AUX1 5785MHz



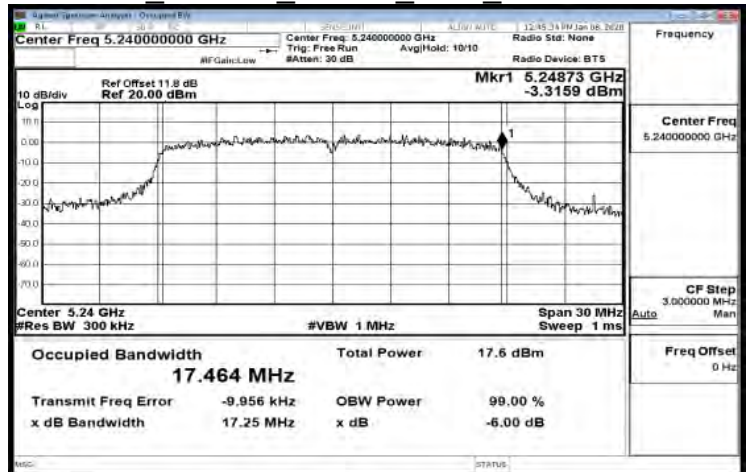
IC 802.11n 20MHz Main 5220MHz



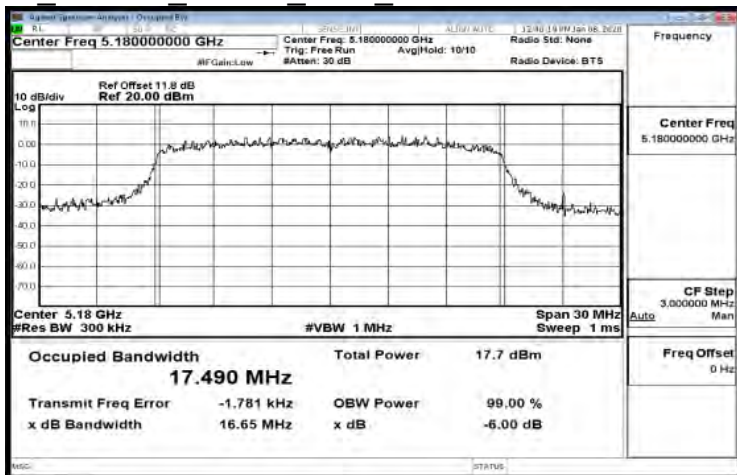
IC 802.11a 20MHz AUX1 5825MHz



IC 802.11n 20MHz Main 5240MHz



IC 802.11n 20MHz Main 5180MHz



IC 802.11n 20MHz Main 5260MHz

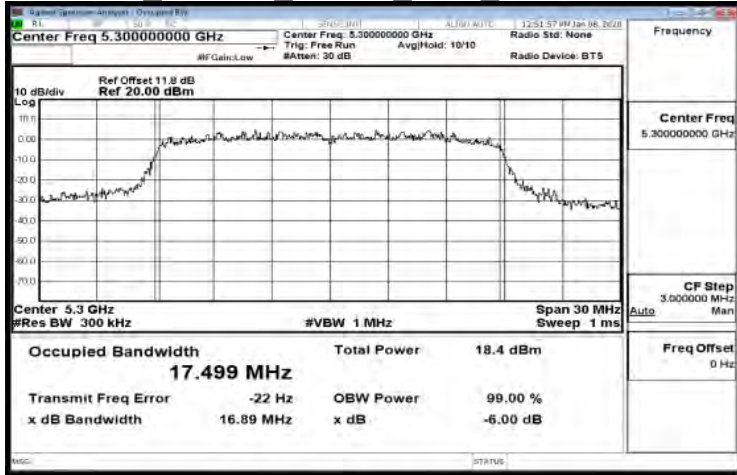


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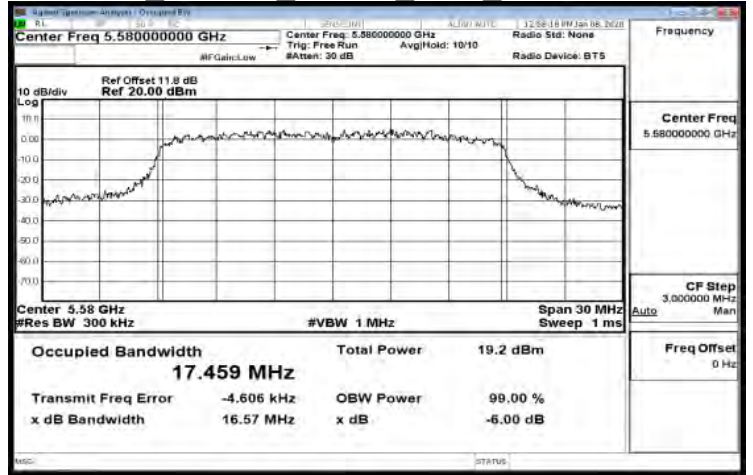
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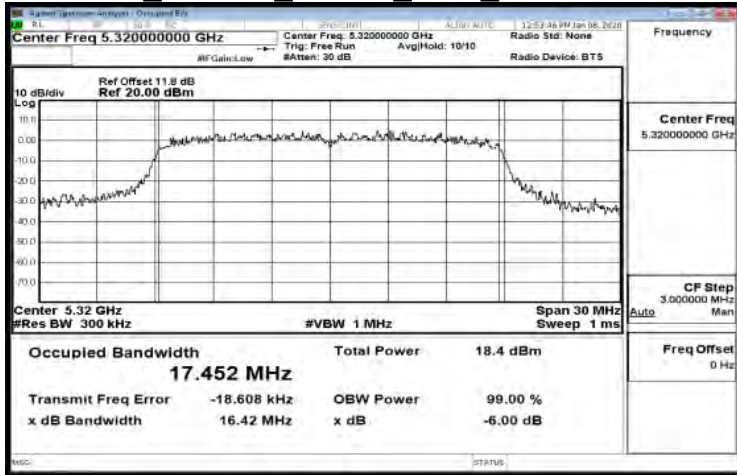
IC 802.11n 20MHz Main 5300MHz



IC 802.11n 20MHz Main 5580MHz



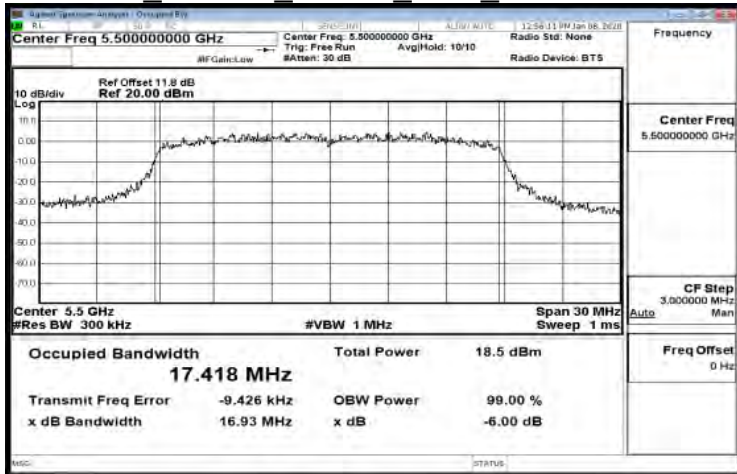
IC 802.11n 20MHz Main 5320MHz



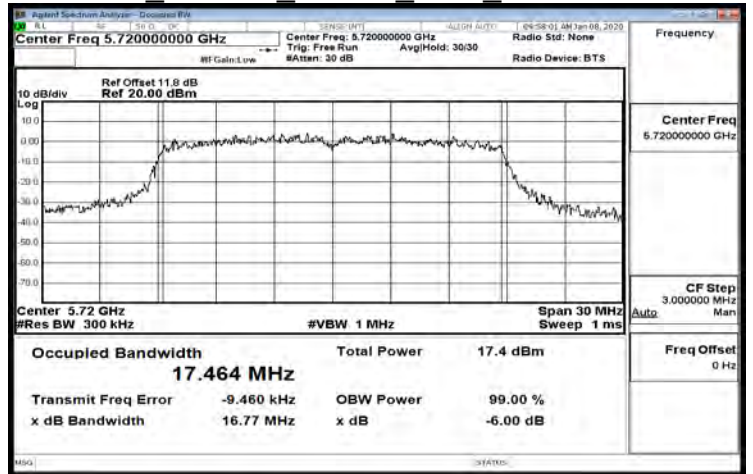
IC 802.11n 20MHz Main 5700MHz



IC 802.11n 20MHz Main 5500MHz



IC 802.11n 20MHz Main 5720MHz

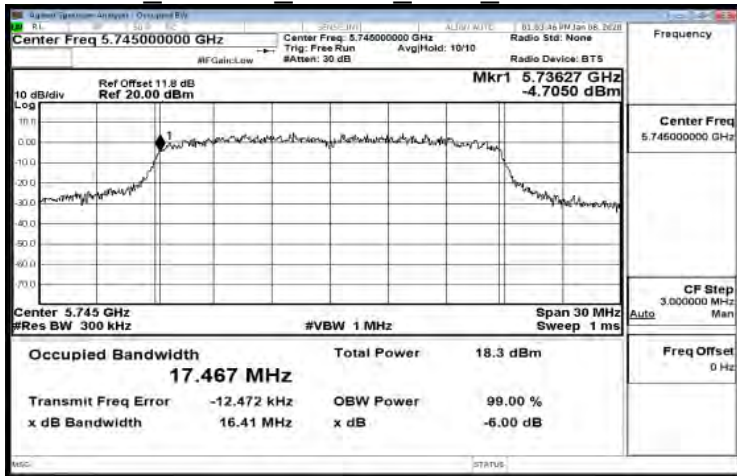


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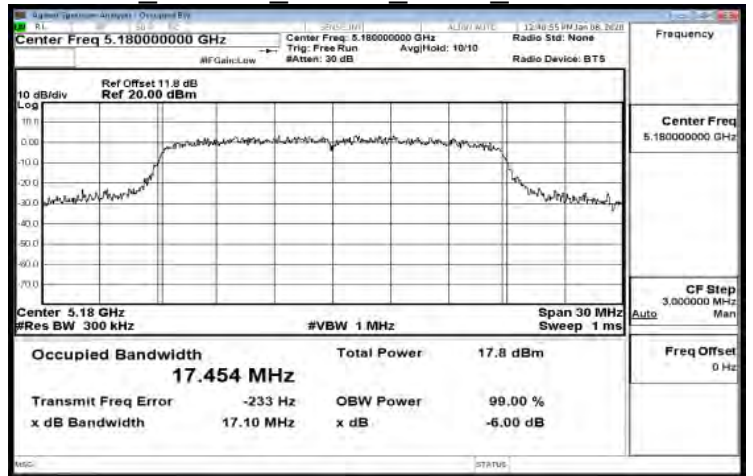
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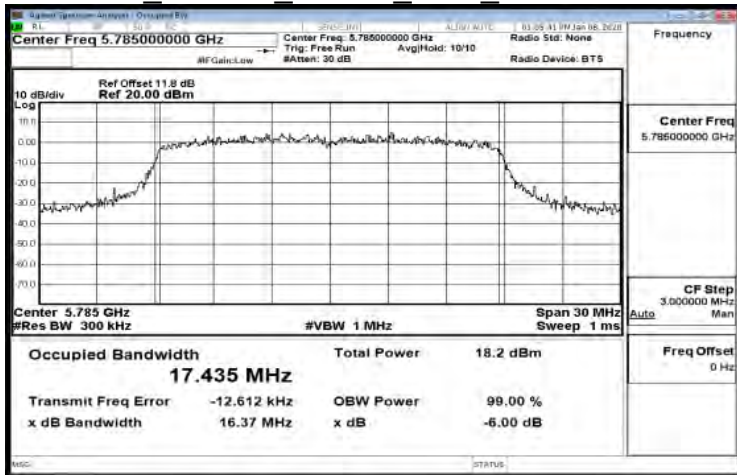
IC 802.11n 20MHz Main 5745MHz



IC 802.11n 20MHz AUX1 5180MHz



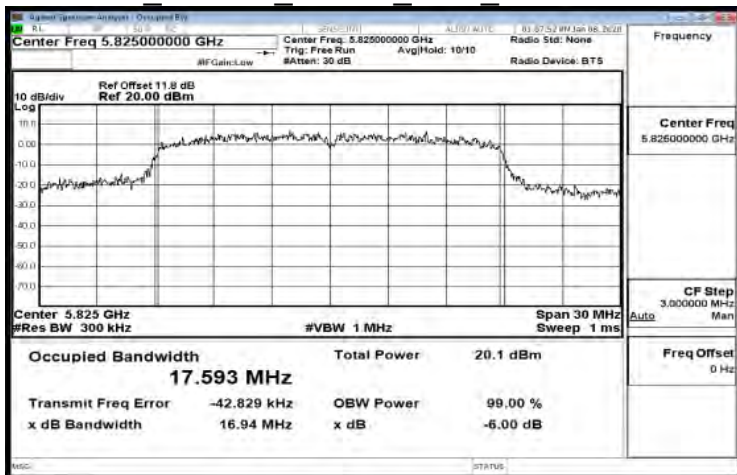
IC 802.11n 20MHz Main 5785MHz



IC 802.11n 20MHz AUX1 5220MHz



IC 802.11n 20MHz Main 5825MHz



IC 802.11n 20MHz AUX1 5240MHz

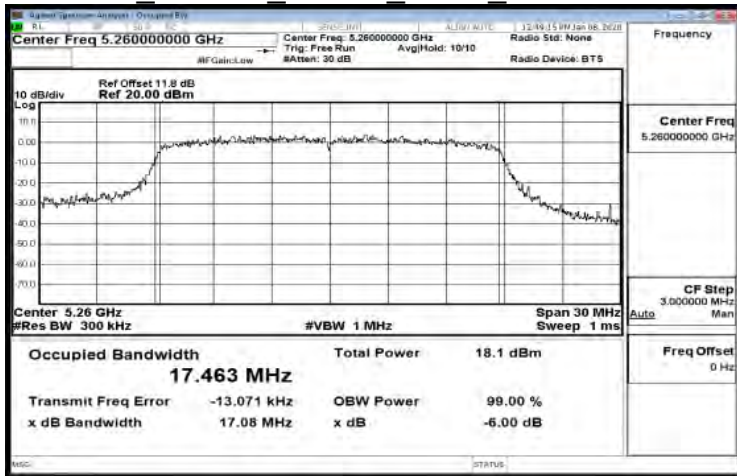


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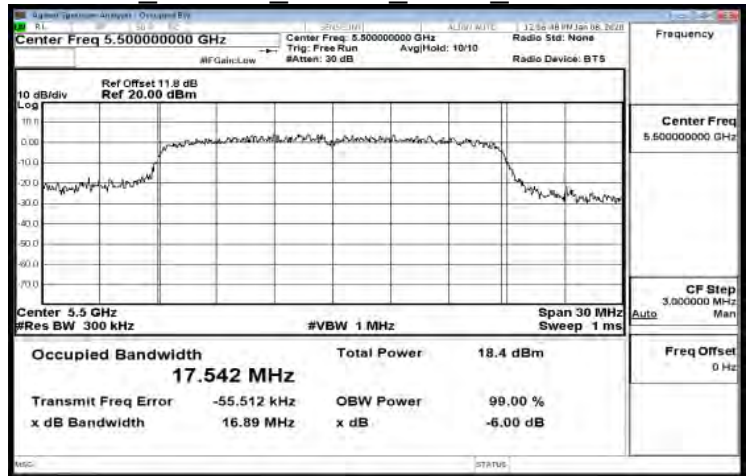
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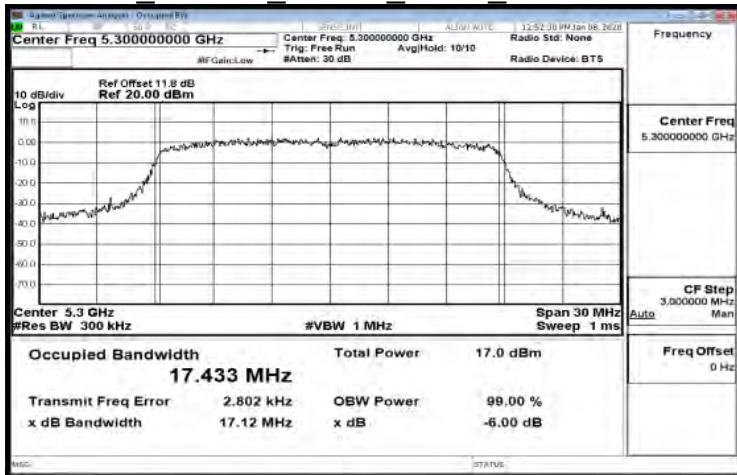
IC 802.11n 20MHz AUX1 5260MHz



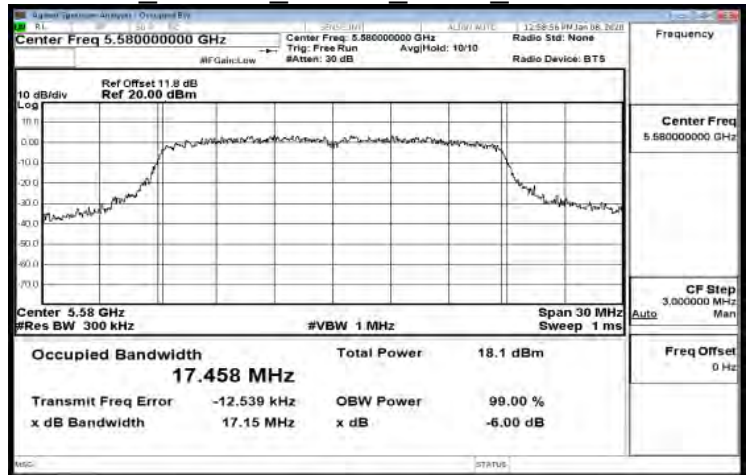
IC 802.11n 20MHz AUX1 5500MHz



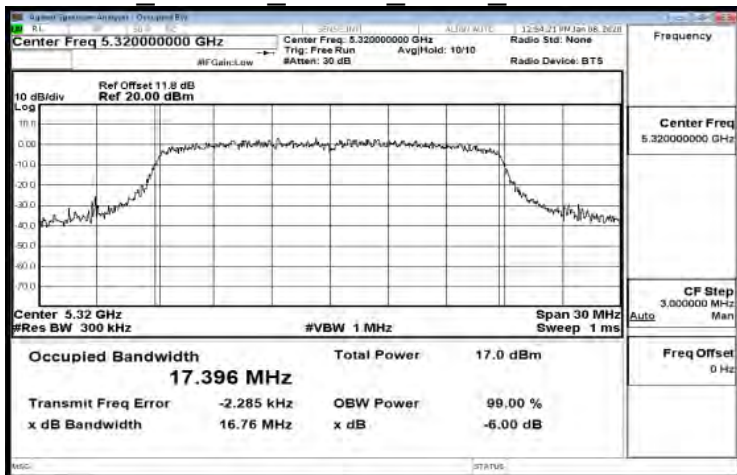
IC 802.11n 20MHz AUX1 5300MHz



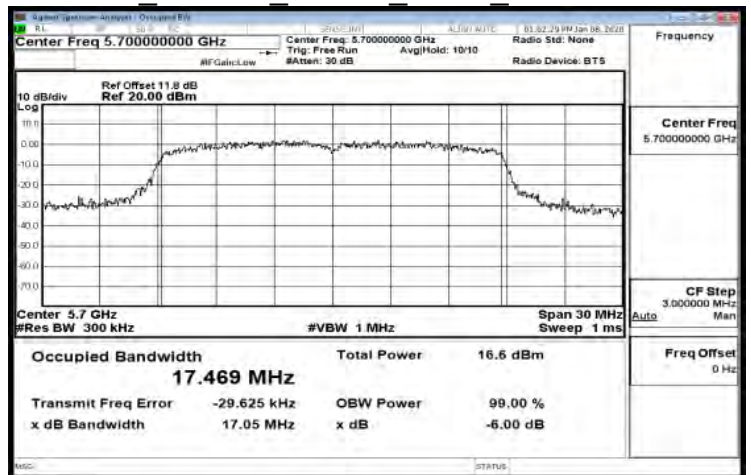
IC 802.11n 20MHz AUX1 5580MHz



IC 802.11n 20MHz AUX1 5320MHz



IC 802.11n 20MHz AUX1 5700MHz

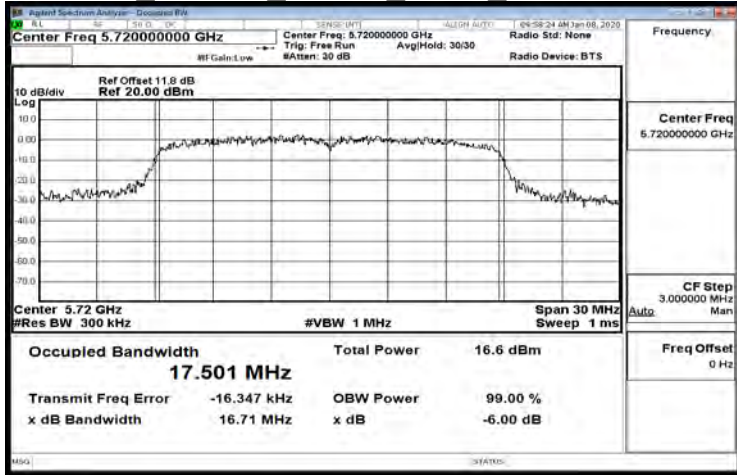


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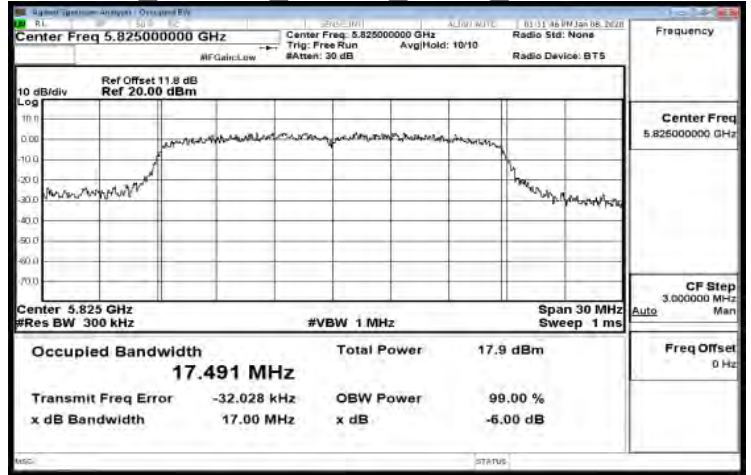
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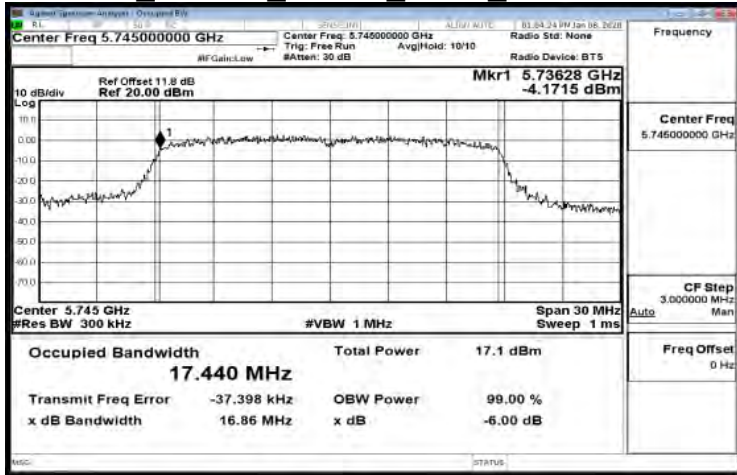
IC 802.11n 20MHz AUX1 5720MHz



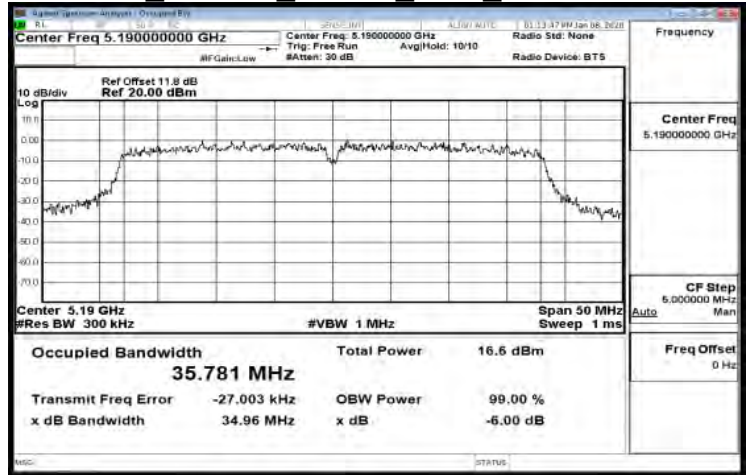
IC 802.11n 20MHz AUX1 5825MHz



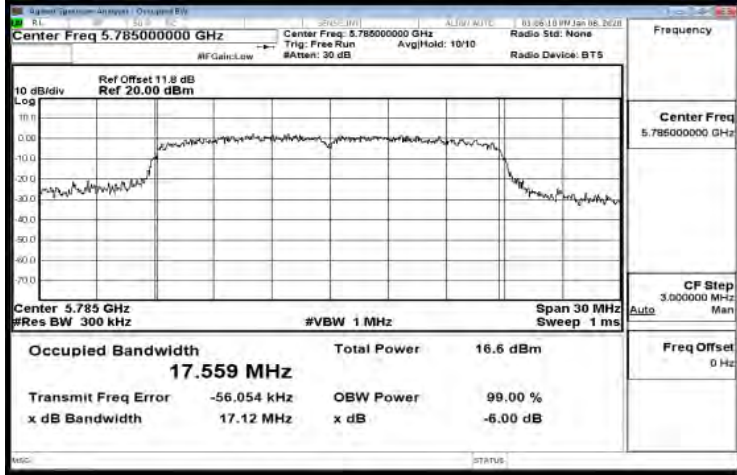
IC 802.11n 20MHz AUX1 5745MHz



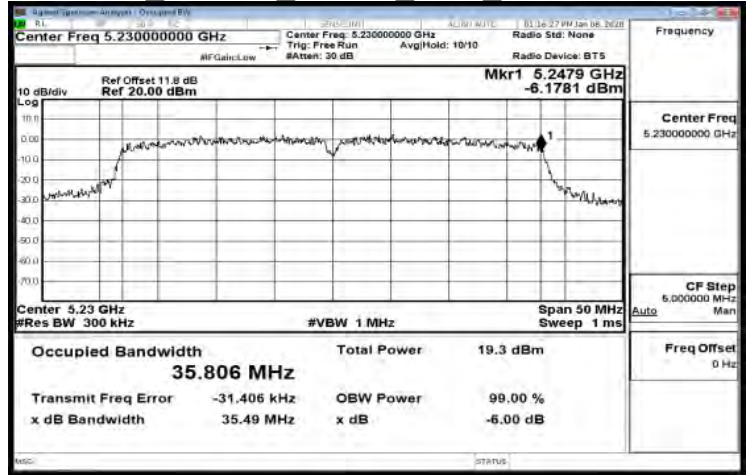
IC 802.11n 40MHz Main 5190MHz



IC 802.11n 20MHz AUX1 5785MHz



IC 802.11n 40MHz Main 5230MHz

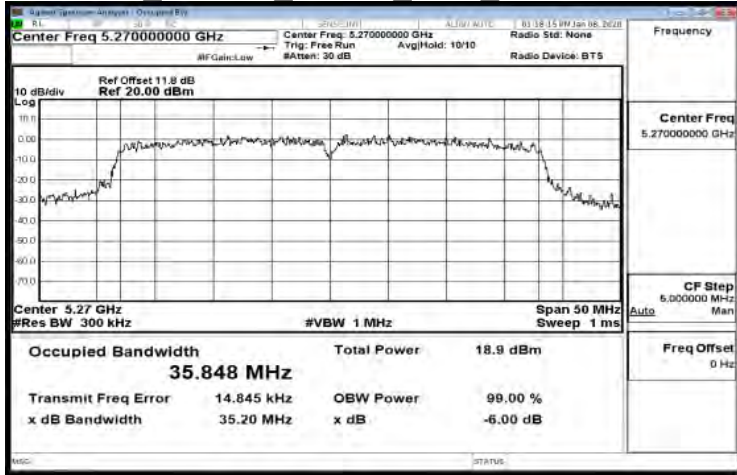


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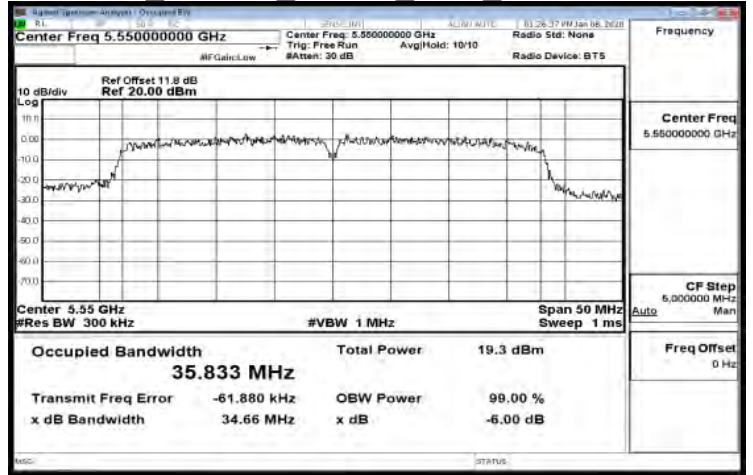
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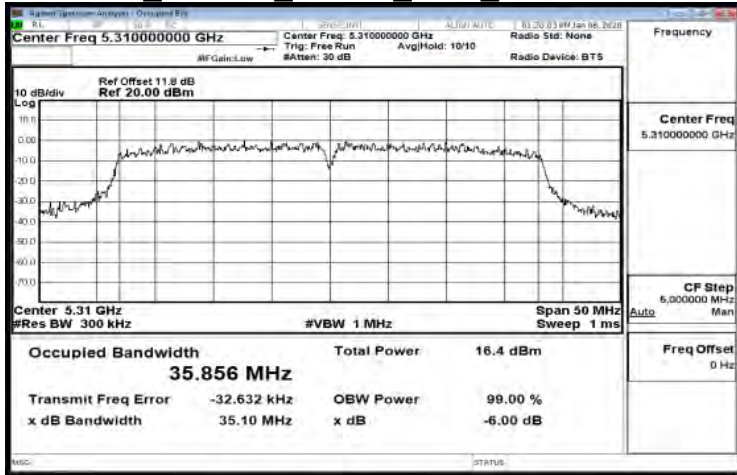
IC 802.11n 40MHz Main 5270MHz



IC 802.11n 40MHz Main 5550MHz



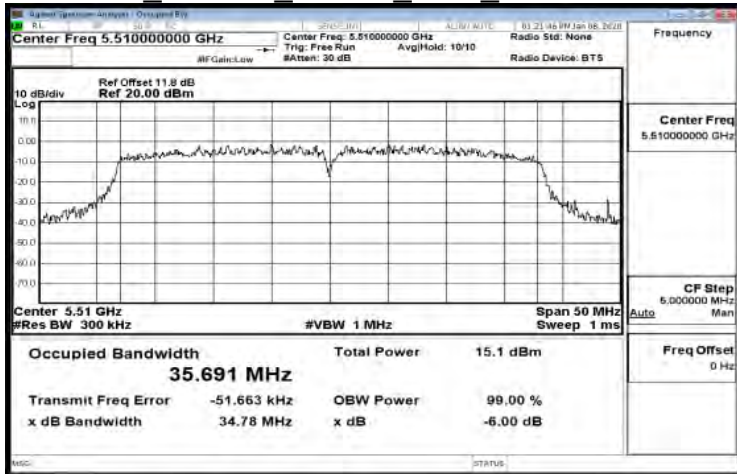
IC 802.11n 40MHz Main 5310MHz



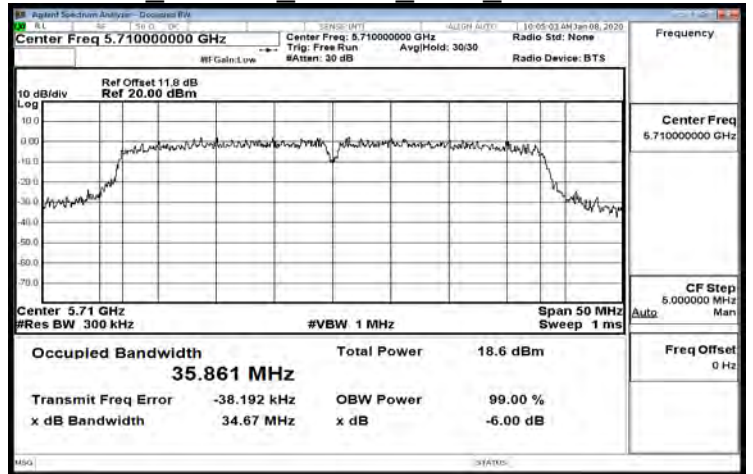
IC 802.11n 40MHz Main 5670MHz



IC 802.11n 40MHz Main 5510MHz



IC 802.11n 40MHz Main 5710MHz

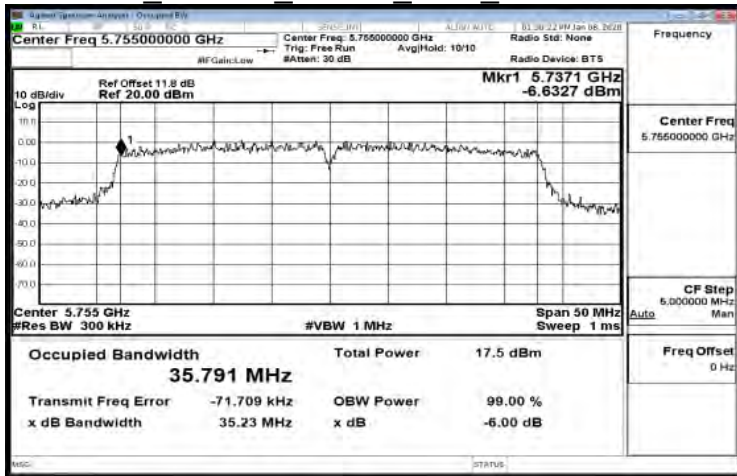


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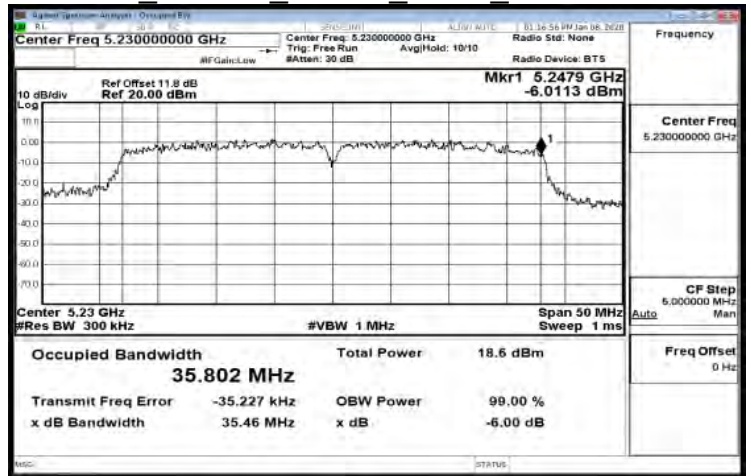
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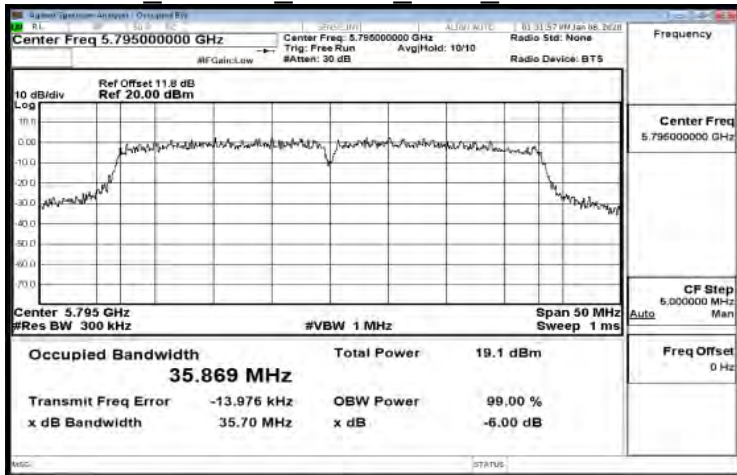
IC 802.11n 40MHz Main 5755MHz



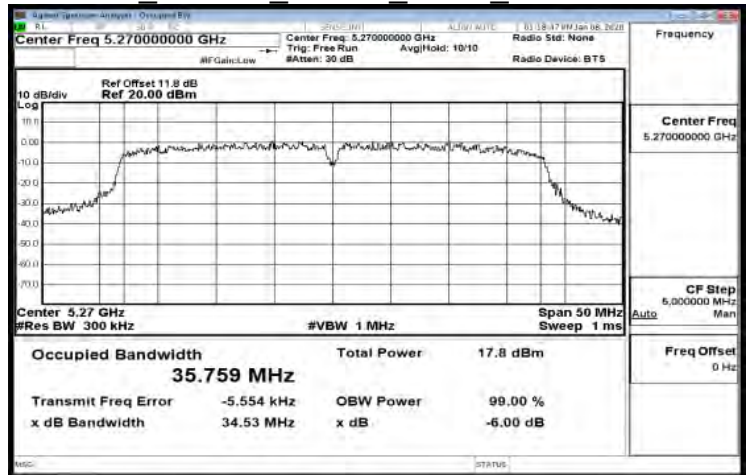
IC 802.11n 40MHz AUX1 5230MHz



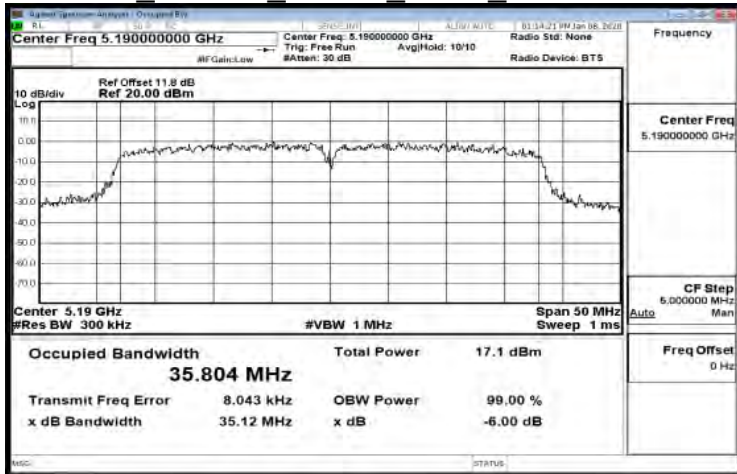
IC 802.11n 40MHz Main 5795MHz



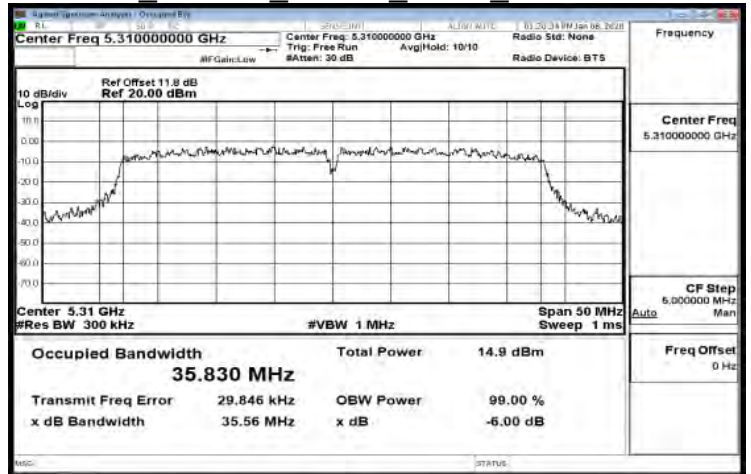
IC 802.11n 40MHz AUX1 5270MHz



IC 802.11n 40MHz AUX1 5190MHz



IC 802.11n 40MHz AUX1 5310MHz

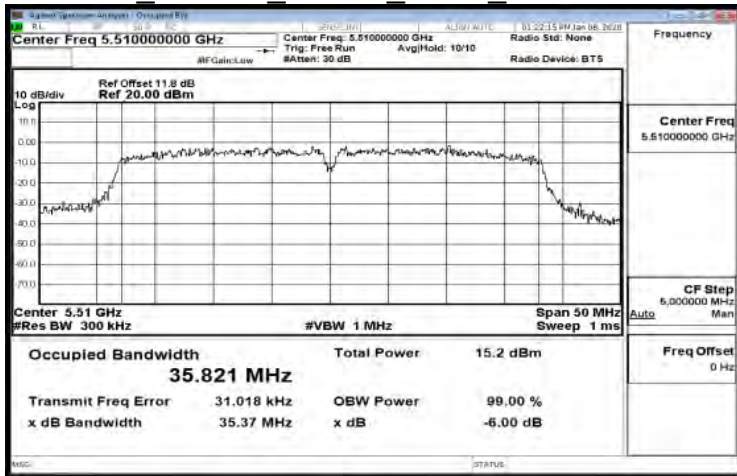


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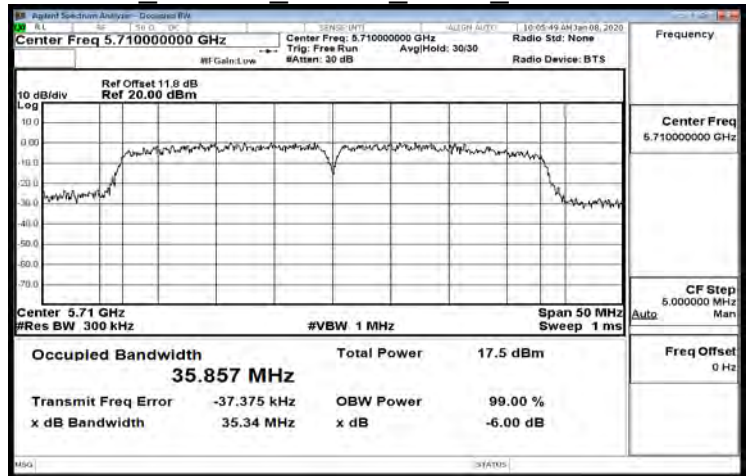
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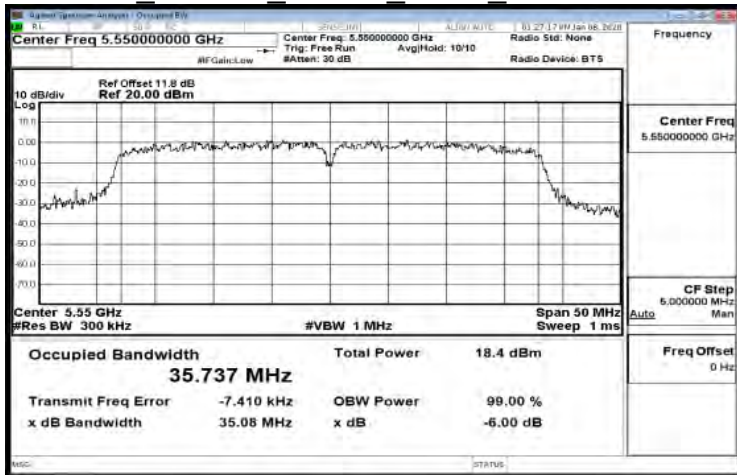
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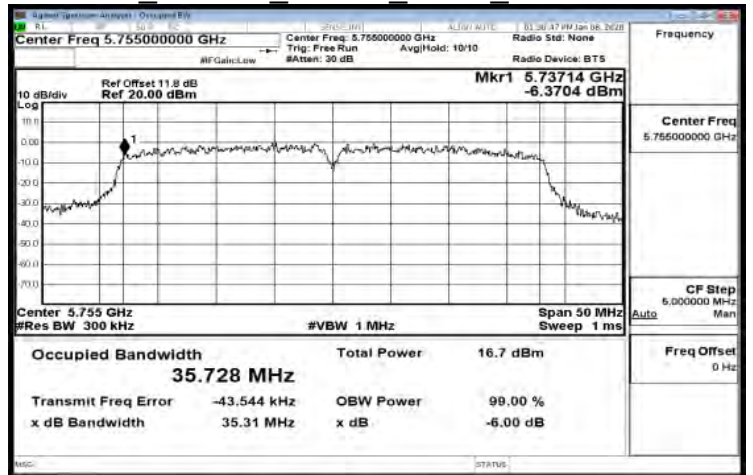
IC 802.11n 40MHz AUX1 5710MHz



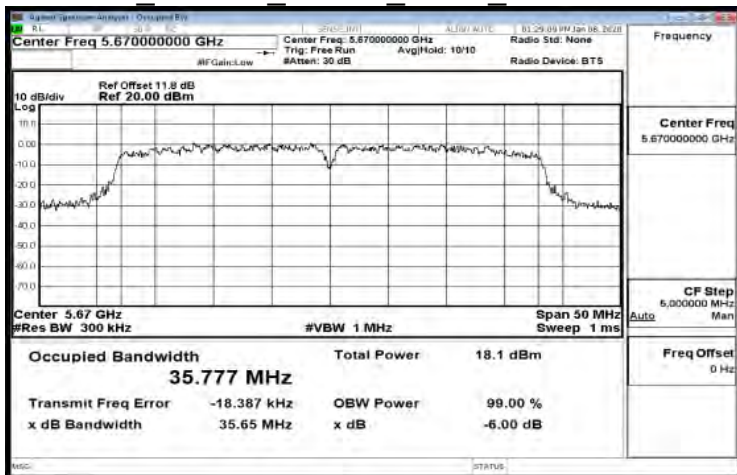
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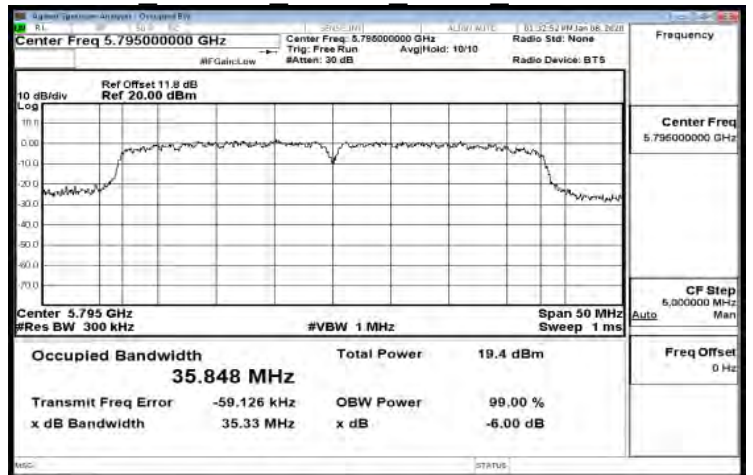
IC 802.11n 40MHz AUX1 5755MHz



IC 802.11n 40MHz AUX1 5670MHz



IC 802.11n 40MHz AUX1 5795MHz

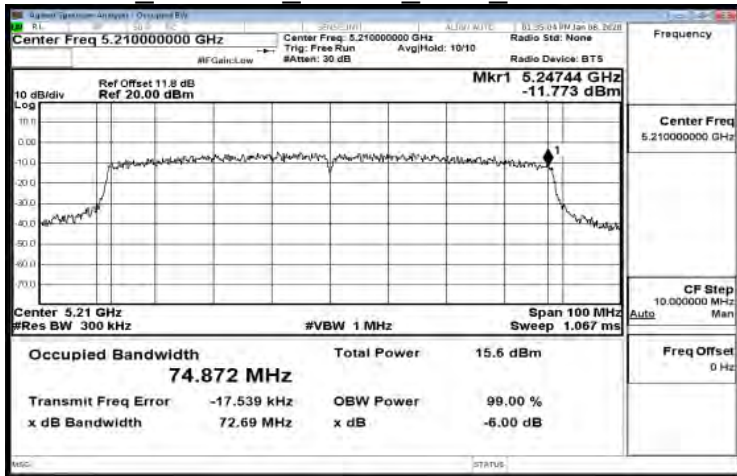


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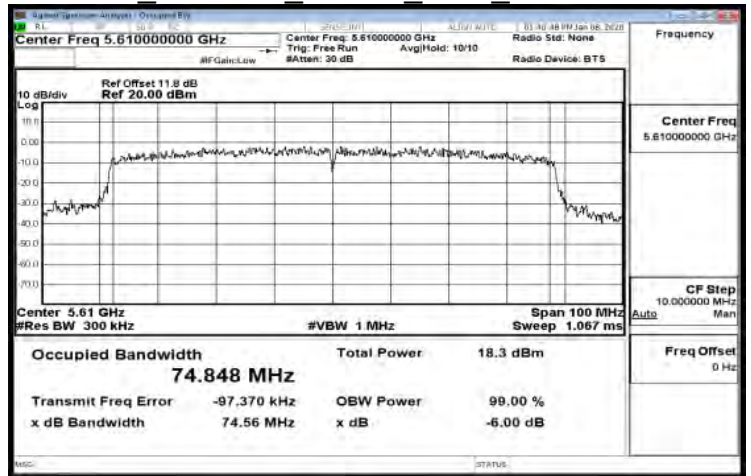
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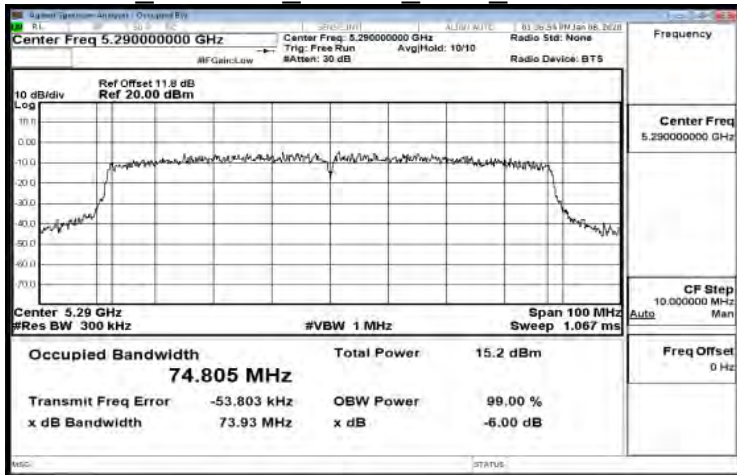
IC 802.11ac 80MHz Main 5210MHz



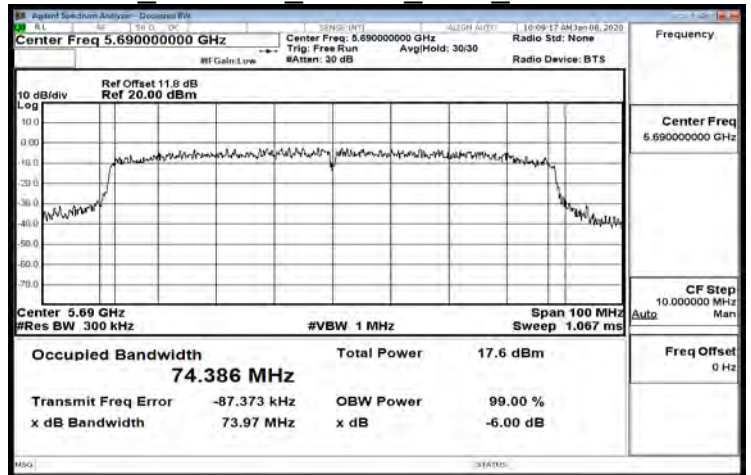
IC 802.11ac 80MHz Main 5610MHz



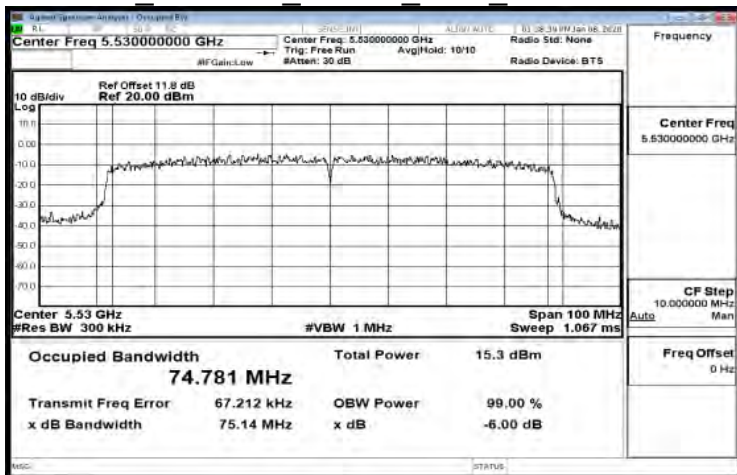
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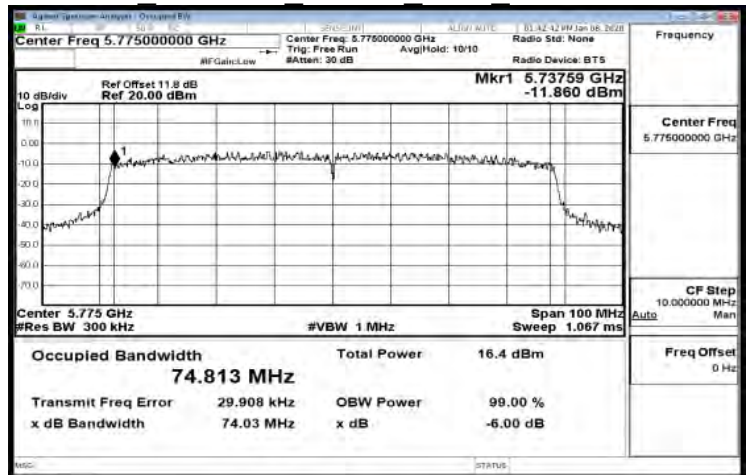
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IC 802.11ac 80MHz Main 5530MHz



IC 802.11ac 80MHz Main 5775MHz

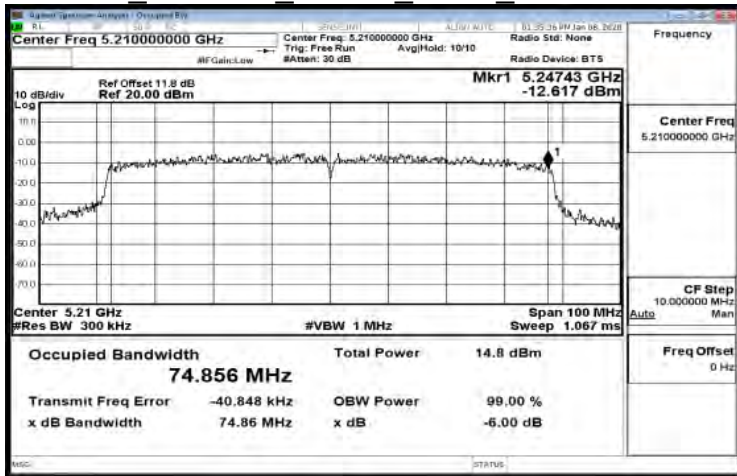


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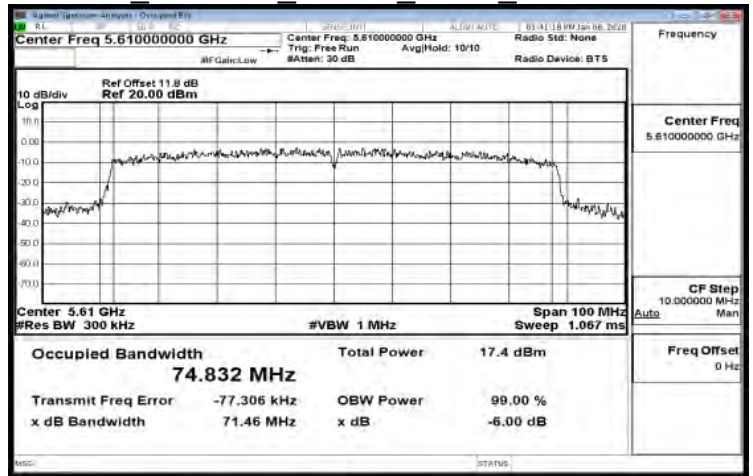
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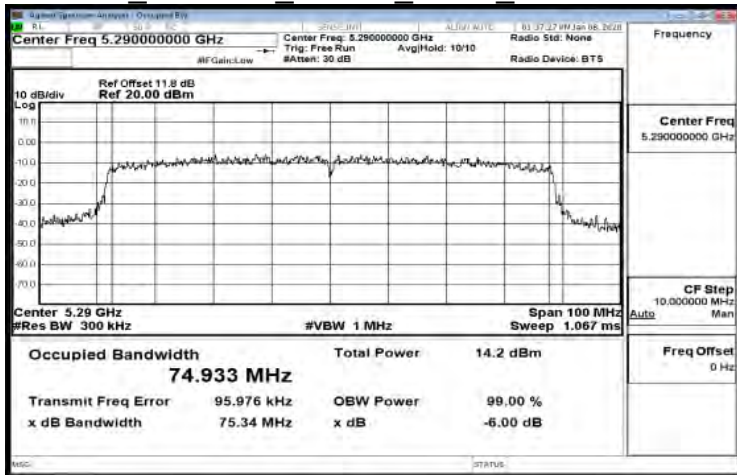
IC 802.11ac 80MHz AUX1 5210MHz



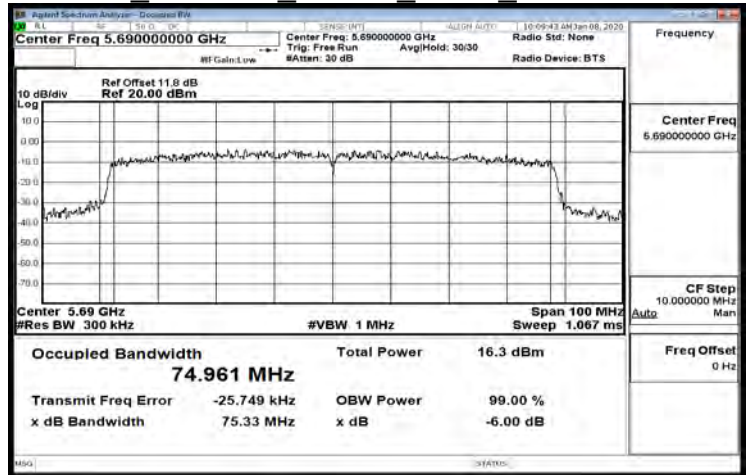
IC 802.11ac 80MHz AUX1 5610MHz



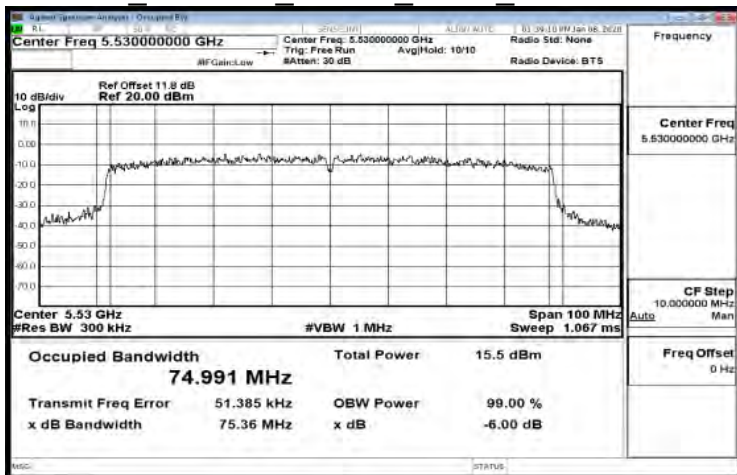
IC 802.11ac 80MHz AUX1 5290MHz



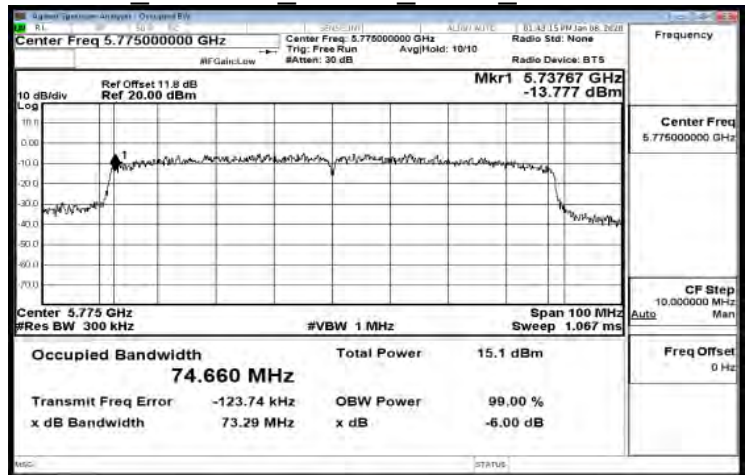
IC 802.11ac 80MHz AUX1 5690MHz



IC 802.11ac 80MHz AUX1 5530MHz



IC 802.11ac 80MHz AUX1 5775MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY	LIMIT
U-NII-1	Access Point (Master device)	1 Watt(30dBm)
	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	√	250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√	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 $10 + 10 \log_{10} B$, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10} B$, 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 FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain
 $= 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] \text{ dBi}$

[Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

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

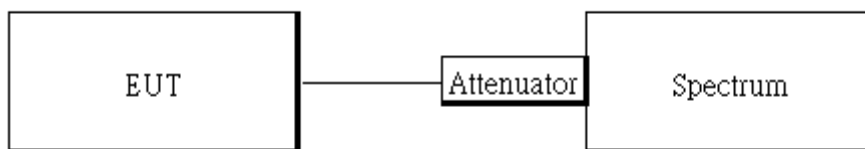
9.2 Measurement Procedure

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

9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2496A	1804002	03/26/2019	03/25/2020
Power Sensor	Anritsu	MA2411B	1726105	03/26/2019	03/25/2020
Power Sensor	Anritsu	MA2411B	1726106	03/26/2019	03/25/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/09/2019	07/08/2020

9.4 Test Set-up



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9.5 Measurement Result

9.5.1 Conducted output power (FCC)

802.11a Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	12.46	17.601	23.98	PASS
44	5220	6	12.99	19.885	23.98	PASS
48	5240	6	12.97	19.794	23.98	PASS
52	5260	6	14.92	31.012	23.98 or $11+10\log(B) = 24.07$	PASS
60	5300	6	13.45	22.107	23.98 or $11+10\log(B) = 23.83$	PASS
64	5320	6	13.48	22.260	23.98 or $11+10\log(B) = 23.77$	PASS
100	5500	6	13.97	24.919	23.98 or $11+10\log(B) = 24.97$	PASS
116	5580	6	13.99	25.034	23.98 or $11+10\log(B) = 23.77$	PASS
140	5700	6	13.47	22.209	23.98 or $11+10\log(B) = 23.73$	PASS
144	5720(U-NII 2C)	6	12.82	19.14	23.98 or $11+10\log(B) = 23.73$	PASS
144	5720 (U-NII 3)	6	7.66	5.83	30	PASS
149	5745	6	13.95	24.805	30	PASS
157	5785	6	14.96	31.299	30	PASS
165	5825	6	14.98	31.444	30	PASS

802.11a Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	12.37	17.240	23.98	PASS
44	5220	6	12.91	19.522	23.98	PASS
48	5240	6	12.89	19.433	23.98	PASS
52	5260	6	14.82	30.306	23.98 or $11+10\log(B) = 23.72$	PASS
60	5300	6	13.35	21.604	23.98 or $11+10\log(B) = 23.68$	PASS
64	5320	6	13.42	21.955	23.98 or $11+10\log(B) = 23.69$	PASS
100	5500	6	13.88	24.408	23.98 or $11+10\log(B) = 24.04$	PASS
116	5580	6	13.89	24.464	23.98 or $11+10\log(B) = 23.66$	PASS
140	5700	6	13.39	21.804	23.98 or $11+10\log(B) = 23.82$	PASS
144	5720(U-NII 2C)	6	12.43	17.50	23.98 or $11+10\log(B) = 24.72$	PASS
144	5720 (U-NII 3)	6	8.50	7.07	30	PASS
149	5745	6	13.86	24.296	30	PASS
157	5785	6	14.86	30.587	30	PASS
165	5825	6	14.90	30.870	30	PASS

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802.11a_2Tx

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
36	5180	6	12.24	12.05	15.41	34.767	23.98		PASS
44	5220	6	12.98	12.4	15.97	39.494	23.98		PASS
48	5240	6	13.05	12.39	16.00	39.794	23.98		PASS
52	5260	6	15.22	13.91	17.88	61.374	23.98	or $11+10\log(B) = 23.72$	PASS
60	5300	6	13.52	12.59	16.35	43.107	23.98	or $11+10\log(B) = 23.68$	PASS
64	5320	6	13.47	12.91	16.46	44.306	23.98	or $11+10\log(B) = 23.69$	PASS
100	5500	6	13.49	13.93	16.98	49.902	23.98	or $11+10\log(B) = 24.04$	PASS
116	5580	6	13.62	13.72	16.94	49.385	23.98	or $11+10\log(B) = 23.66$	PASS
140	5700	6	13.43	12.87	16.42	43.900	23.98	or $11+10\log(B) = 23.73$	PASS
144	5720(U-NII 2C)	6	12.52	12.10	15.74	37.458	23.98	or $11+10\log(B) = 23.73$	PASS
144	5720 (U-NII 3)	6	7.37	8.16	10.58	11.418	30		PASS
149	5745	6	13.72	13.62	16.94	49.385	30		PASS
157	5785	6	14.91	14.48	17.97	62.603	30		PASS
165	5825	6	14.96	14.13	17.83	60.680	30		PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	MCS0	12.98	19.869	23.98		PASS
44	5220	MCS0	12.99	19.915	23.98		PASS
48	5240	MCS0	12.96	19.778	23.98		PASS
52	5260	MCS0	13.95	24.841	23.98	or $11+10\log(B) = 23.86$	PASS
60	5300	MCS0	13.47	22.242	23.98	or $11+10\log(B) = 23.97$	PASS
64	5320	MCS0	13.48	22.293	23.98	or $11+10\log(B) = 23.94$	PASS
100	5500	MCS0	13.50	22.396	23.98	or $11+10\log(B) = 23.96$	PASS
116	5580	MCS0	13.47	22.242	23.98	or $11+10\log(B) = 24.04$	PASS
140	5700	MCS0	12.96	19.778	23.98	or $11+10\log(B) = 23.90$	PASS
144	5720(U-NII 2C)	MCS0	12.28	16.92	23.98	or $11+10\log(B) = 23.86$	PASS
144	5720 (U-NII 3)	MCS0	7.30	5.37	30		PASS
149	5745	MCS0	13.48	22.293	30		PASS
157	5785	MCS0	13.92	24.670	30		PASS
165	5825	MCS0	13.99	25.071	30		PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	12.87	19.372	23.98	PASS
44	5220	MCS0	12.92	19.596	23.98	PASS
48	5240	MCS0	12.86	19.327	23.98	PASS
52	5260	MCS0	13.88	24.444	23.98 or $11+10\log(B) = 23.79$	PASS
60	5300	MCS0	13.39	21.836	23.98 or $11+10\log(B) = 23.93$	PASS
64	5320	MCS0	13.38	21.786	23.98 or $11+10\log(B) = 23.99$	PASS
100	5500	MCS0	13.43	22.038	23.98 or $11+10\log(B) = 25.31$	PASS
116	5580	MCS0	13.40	21.886	23.98 or $11+10\log(B) = 23.90$	PASS
140	5700	MCS0	12.89	19.461	23.98 or $11+10\log(B) = 23.91$	PASS
144	5720(U-NII 2C)	MCS0	11.84	15.28	23.98 or $11+10\log(B) = 24.95$	PASS
144	5720 (U-NII 3)	MCS0	8.13	6.50	30	PASS
149	5745	MCS0	13.37	21.736	30	PASS
157	5785	MCS0	13.86	24.332	30	PASS
165	5825	MCS0	13.93	24.727	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	12.54	12.36	15.98	39.655	23.98	PASS
44	5220	MCS8	12.56	12.1	15.87	38.620	23.98	PASS
48	5240	MCS8	12.91	11.98	16.00	39.828	23.98	PASS
52	5260	MCS8	14.05	12.74	16.98	49.845	23.98 or $11+10\log(B) = 23.79$	PASS
60	5300	MCS8	13.45	12.35	16.47	44.328	23.98 or $11+10\log(B) = 23.93$	PASS
64	5320	MCS8	13.35	12.51	16.48	44.487	23.98 or $11+10\log(B) = 23.94$	PASS
100	5500	MCS8	12.66	13.25	16.50	44.638	23.98 or $11+10\log(B) = 23.96$	PASS
116	5580	MCS8	12.79	12.89	16.37	43.374	23.98 or $11+10\log(B) = 23.90$	PASS
140	5700	MCS8	12.71	12.17	15.98	39.632	23.98 or $11+10\log(B) = 23.90$	PASS
144	5720(U-NII 2C)	MCS8	11.67	11.25	15.16	32.842	23.98 or $11+10\log(B) = 23.86$	PASS
144	5720 (U-NII 3)	MCS8	6.69	7.54	10.18	10.432	30	PASS
149	5745	MCS8	12.91	12.82	16.40	43.624	30	PASS
157	5785	MCS8	13.7	13.17	16.98	49.832	30	PASS
165	5825	MCS8	13.84	13	16.97	49.800	30	PASS

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802.11n HT40 Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	10.46	11.108	23.98	PASS
46	5230	MCS0	12.96	19.754	23.98	PASS
54	5270	MCS0	12.98	19.845	23.98 or $11+10\log(B) = 27.26$	PASS
62	5310	MCS0	10.48	11.160	23.98 or $11+10\log(B) = 26.93$	PASS
102	5510	MCS0	10.95	12.435	23.98 or $11+10\log(B) = 26.94$	PASS
110	5550	MCS0	12.99	19.891	23.98 or $11+10\log(B) = 27.51$	PASS
134	5670	MCS0	12.98	19.845	23.98 or $11+10\log(B) = 27.02$	PASS
142	5710(U-NII 2C)	MCS0	12.42	17.47	23.98 or $11+10\log(B) = 26.96$	PASS
142	5710 (U-NII 3)	MCS0	3.75	2.37	30	PASS
151	5755	MCS0	11.49	14.082	30	PASS
159	5795	MCS0	12.99	19.891	30	PASS

802.11n HT40 Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	10.37	10.881	23.98	PASS
46	5230	MCS0	12.90	19.483	23.98	PASS
54	5270	MCS0	12.90	19.483	23.98 or $11+10\log(B) = 27.00$	PASS
62	5310	MCS0	10.41	10.981	23.98 or $11+10\log(B) = 27.05$	PASS
102	5510	MCS0	10.87	12.208	23.98 or $11+10\log(B) = 27.08$	PASS
110	5550	MCS0	12.88	19.393	23.98 or $11+10\log(B) = 27.13$	PASS
134	5670	MCS0	12.89	19.438	23.98 or $11+10\log(B) = 27.16$	PASS
142	5710(U-NII 2C)	MCS0	12.19	16.56	23.98 or $11+10\log(B) = 27.34$	PASS
142	5710 (U-NII 3)	MCS0	4.72	2.97	23.98	PASS
151	5755	MCS0	11.38	13.729	23.98	PASS
159	5795	MCS0	12.89	19.438	30	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	9.17	8.87	13.37	21.724	23.98	PASS
46	5230	MCS8	11.84	11.22	15.89	38.796	23.98	PASS
54	5270	MCS8	11.93	11.08	15.87	38.660	23.98 or 11+10log(B) = 27.00	PASS
62	5310	MCS8	9.45	8.36	13.29	21.311	23.98 or 11+10log(B) = 26.93	PASS
102	5510	MCS8	9.28	9.64	13.81	24.047	23.98 or 11+10log(B) = 26.94	PASS
110	5550	MCS8	11.41	11.34	15.72	37.342	23.98 or 11+10log(B) = 27.13	PASS
134	5670	MCS8	11.91	11.03	15.84	38.363	23.98 or 11+10log(B) = 27.02	PASS
142	5710(U-NII 2C)	MCS8	11.30	10.28	15.24	33.416	23.98 or 11+10log(B) = 26.96	PASS
142	5720 (U-NII 3)	MCS8	2.63	2.82	6.57	4.539	30	PASS
151	5755	MCS8	10.05	9.88	14.31	26.994	30	PASS
159	5795	MCS8	11.84	11.07	15.82	38.185	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	9.91	9.797	23.98	PASS
58	5290	MCS0	9.47	8.853	23.98 or 11+10log(B) = 30.05	PASS
106	5530	MCS0	10.47	11.145	23.98 or 11+10log(B) = 30.06	PASS
122	5610	MCS0	12.97	19.820	23.98 or 11+10log(B) = 30.20	PASS
138	5690(U-NII 2C)	MCS0	12.70	18.60	23.98 or 11+10log(B) = 30.06	PASS
138	5690 (U-NII 3)	MCS0	1.17	1.31	30	PASS
155	5775	MCS0	10.46	11.120	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	9.82	9.596	23.98	PASS
58	5290	MCS0	9.38	8.672	23.98 or 11+10log(B) = 30.10	PASS
106	5530	MCS0	10.36	10.867	23.98 or 11+10log(B) = 30.19	PASS
122	5610	MCS0	12.86	19.324	23.98 or 11+10log(B) = 30.13	PASS
138	5690(U-NII 2C)	MCS0	12.61	18.22	23.98 or 11+10log(B) = 30.06	PASS
138	5690 (U-NII 3)	MCS0	1.08	1.28	23.98	PASS
155	5775	MCS0	10.36	10.867	23.98	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
42	5210	MCS0	8.92	8.62	12.80	19.072	23.98		PASS
58	5290	MCS0	8.61	8.02	12.36	17.204	23.98	or $11+10\log(B) = 30.05$	PASS
106	5530	MCS0	9.14	9.53	13.37	21.730	23.98	or $11+10\log(B) = 30.06$	PASS
122	5610	MCS0	12.25	11.59	15.96	39.480	23.98	or $11+10\log(B) = 30.13$	PASS
138	5690(U-NII 2C)	MCS0	11.90	11.32	15.66	36.773	23.98	or $11+10\log(B) = 30.06$	PASS
138	5690 (U-NII 3)	MCS0	0.38	-0.20	4.13	2.591	30		PASS
155	5775	MCS0	9.48	9.24	13.39	21.842	30		PASS

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9.5.2 ISED EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.46	1.990	14.45	27.831	23.01 or 10+10log(B)= 22.12	PASS
44	5220	12.99	1.990	14.98	31.444	23.01 or 10+10log(B)= 22.12	PASS
48	5240	12.97	1.990	14.96	31.299	23.01 or 10+10log(B)= 22.14	PASS
52	5260	14.92	1.990	16.91	49.038	30 or 17+10log(B)= 29.14	PASS
60	5300	13.45	1.990	15.44	34.957	30 or 17+10log(B)= 29.13	PASS
64	5320	13.48	1.990	15.47	35.199	30 or 17+10log(B)= 29.12	PASS
100	5500	13.97	1.960	15.93	39.132	30 or 17+10log(B)= 29.15	PASS
116	5580	13.99	1.960	15.95	39.313	30 or 17+10log(B)= 29.12	PASS
140	5700	13.47	1.960	15.43	34.877	30 or 17+10log(B)= 29.13	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.37	2.540	14.91	30.941	23.01 or 10+10log(B)= 22.12	PASS
44	5220	12.91	2.540	15.45	35.038	23.01 or 10+10log(B)= 22.12	PASS
48	5240	12.89	2.540	15.43	34.877	23.01 or 10+10log(B)= 22.14	PASS
52	5260	14.82	3.030	17.85	60.888	30 or 17+10log(B)= 29.13	PASS
60	5300	13.35	3.030	16.38	43.404	30 or 17+10log(B)= 29.13	PASS
64	5320	13.42	3.030	16.45	44.110	30 or 17+10log(B)= 29.12	PASS
100	5500	13.88	3.440	17.32	53.893	30 or 17+10log(B)= 29.13	PASS
116	5580	13.89	3.440	17.33	54.017	30 or 17+10log(B)= 29.12	PASS
140	5700	13.39	3.440	16.83	48.143	30 or 17+10log(B)= 29.12	PASS

802.11a_2Tx

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.41	5.280	20.69	117.256	23.01 or 10+10log(B)= 22.12	PASS
44	5220	15.97	5.280	21.24	133.198	23.01 or 10+10log(B)= 22.12	PASS
48	5240	16.00	5.280	21.28	134.209	23.01 or 10+10log(B)= 22.14	PASS
52	5260	17.88	5.536	23.42	219.569	30 or 17+10log(B)= 29.13	PASS
60	5300	16.35	5.536	21.88	154.218	30 or 17+10log(B)= 29.13	PASS
64	5320	16.46	5.536	22.00	158.508	30 or 17+10log(B)= 29.12	PASS
100	5500	16.98	5.742	22.72	187.197	30 or 17+10log(B)= 29.13	PASS
116	5580	16.94	5.742	22.68	185.256	30 or 17+10log(B)= 29.12	PASS
140	5700	16.42	5.742	22.17	164.681	30 or 17+10log(B)= 29.12	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.98	1.990	14.97	31.418	23.01 or 10+10log(B)= 22.43	PASS
44	5220	12.99	1.990	14.98	31.490	23.01 or 10+10log(B)= 22.43	PASS
48	5240	12.96	1.990	14.95	31.273	23.01 or 10+10log(B)= 22.42	PASS
52	5260	13.95	1.990	15.94	39.280	30 or 17+10log(B)= 29.42	PASS
60	5300	13.47	1.990	15.46	35.170	30 or 17+10log(B)= 29.43	PASS
64	5320	13.48	1.990	15.47	35.251	30 or 17+10log(B)= 29.42	PASS
100	5500	13.50	1.960	15.46	35.170	30 or 17+10log(B)= 29.41	PASS
116	5580	13.47	1.960	15.43	34.928	30 or 17+10log(B)= 29.42	PASS
140	5700	12.96	1.960	14.92	31.058	30 or 17+10log(B)= 29.43	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.87	2.540	15.41	34.768	23.01 or 10+10log(B)= 22.42	PASS
44	5220	12.92	2.540	15.46	35.170	23.01 or 10+10log(B)= 22.43	PASS
48	5240	12.86	2.540	15.40	34.688	23.01 or 10+10log(B)= 22.42	PASS
52	5260	13.88	3.030	16.91	49.110	30 or 17+10log(B)= 29.42	PASS
60	5300	13.39	3.030	16.42	43.871	30 or 17+10log(B)= 29.41	PASS
64	5320	13.38	3.030	16.41	43.770	30 or 17+10log(B)= 29.40	PASS
100	5500	13.43	3.440	16.87	48.660	30 or 17+10log(B)= 29.44	PASS
116	5580	13.40	3.440	16.84	48.325	30 or 17+10log(B)= 29.42	PASS
140	5700	12.89	3.440	16.33	42.971	30 or 17+10log(B)= 29.42	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.98	5.280	21.26	133.740	23.01 or 10+10log(B)= 22.42	PASS
44	5220	15.87	5.280	21.15	130.250	23.01 or 10+10log(B)= 22.43	PASS
48	5240	16.00	5.280	21.28	134.324	23.01 or 10+10log(B)= 22.42	PASS
52	5260	16.98	5.536	22.51	178.324	30 or 17+10log(B)= 29.42	PASS
60	5300	16.47	5.536	22.00	158.585	30 or 17+10log(B)= 29.41	PASS
64	5320	16.48	5.536	22.02	159.154	30 or 17+10log(B)= 29.40	PASS
100	5500	16.50	5.742	22.24	167.450	30 or 17+10log(B)= 29.41	PASS
116	5580	16.37	5.742	22.11	162.709	30 or 17+10log(B)= 29.42	PASS
140	5700	15.98	5.742	21.72	148.669	30 or 17+10log(B)= 29.42	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	10.46	1.990	12.45	17.565	23.01 or $10+10\log(B)=25.54$	PASS
46	5230	12.96	1.990	14.95	31.236	23.01 or $10+10\log(B)=25.54$	PASS
54	5270	12.98	1.990	14.97	31.380	30 or $17+10\log(B)=32.54$	PASS
62	5310	10.48	1.990	12.47	17.646	30 or $17+10\log(B)=32.55$	PASS
102	5510	10.95	1.960	12.91	19.528	30 or $17+10\log(B)=32.53$	PASS
110	5550	12.99	1.960	14.95	31.236	30 or $17+10\log(B)=32.54$	PASS
134	5670	12.98	1.960	14.94	31.164	30 or $17+10\log(B)=32.53$	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	10.37	2.540	12.91	19.528	23.01 or $10+10\log(B)=25.54$	PASS
46	5230	12.90	2.540	15.44	34.967	23.01 or $10+10\log(B)=25.54$	PASS
54	5270	12.90	3.030	15.93	39.143	30 or $17+10\log(B)=32.53$	PASS
62	5310	10.41	3.030	13.44	22.062	30 or $17+10\log(B)=32.54$	PASS
102	5510	10.87	3.440	14.31	26.956	30 or $17+10\log(B)=32.54$	PASS
110	5550	12.88	3.440	16.32	42.821	30 or $17+10\log(B)=32.53$	PASS
134	5670	12.89	3.440	16.33	42.919	30 or $17+10\log(B)=32.54$	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	13.37	5.280	18.65	73.267	23.01 or $10+10\log(B)=25.54$	PASS
46	5230	15.89	5.280	21.17	130.844	23.01 or $10+10\log(B)=25.54$	PASS
54	5270	15.87	5.536	21.41	138.307	30 or $17+10\log(B)=32.53$	PASS
62	5310	13.29	5.536	18.82	76.239	30 or $17+10\log(B)=32.54$	PASS
102	5510	13.81	5.742	19.55	90.206	30 or $17+10\log(B)=32.53$	PASS
110	5550	15.72	5.742	21.46	140.080	30 or $17+10\log(B)=32.53$	PASS
134	5670	15.84	5.742	21.58	143.909	30 or $17+10\log(B)=32.53$	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	9.91	1.990	11.90	15.492	23.01 or $10+10\log(B)=$ 28.74	PASS
58	5290	9.47	1.990	11.46	13.999	30 or $17+10\log(B)=$ 35.74	PASS
106	5530	10.47	1.960	12.43	17.502	30 or $17+10\log(B)=$ 35.74	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	9.82	2.540	12.36	17.223	23.01 or $10+10\log(B)=$ 28.74	PASS
58	5290	9.38	3.030	12.41	17.422	30 or $17+10\log(B)=$ 35.75	PASS
106	5530	10.36	3.440	13.80	23.994	30 or $17+10\log(B)=$ 35.75	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	12.80	5.280	18.08	64.321	23.01 or $10+10\log(B)=$ 28.74	PASS
58	5290	12.36	5.536	17.89	61.548	30 or $17+10\log(B)=$ 35.74	PASS
106	5530	13.37	5.742	19.11	81.516	30 or $17+10\log(B)=$ 35.74	PASS

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9.5.3 Conducted output power (ISED)

802.11a Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	14.92	31.012	23.98 or $11+10\log(B) = 23.14$	PASS
60	5300	13.45	22.107	23.98 or $11+10\log(B) = 23.13$	PASS
64	5320	13.48	22.260	23.98 or $11+10\log(B) = 23.12$	PASS
100	5500	13.97	24.919	23.98 or $11+10\log(B) = 23.15$	PASS
116	5580	13.99	25.034	23.98 or $11+10\log(B) = 23.12$	PASS
140	5700	13.47	22.209	23.98 or $11+10\log(B) = 23.13$	PASS
144	5720(U-NII 2C)	12.82	19.142	23.98 or $11+11\log(B) = 23.12$	PASS
144	5720 (U-NII 3)	7.66	5.835	30	PASS
149	5745	13.95	24.805	30	PASS
157	5785	14.96	31.299	30	PASS
165	5825	14.98	31.444	30	PASS

802.11a Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	14.82	30.306	23.98 or $11+10\log(B) = 23.13$	PASS
60	5300	13.35	21.604	23.98 or $11+10\log(B) = 23.13$	PASS
64	5320	13.42	21.955	23.98 or $11+10\log(B) = 23.12$	PASS
100	5500	13.88	24.408	23.98 or $11+10\log(B) = 23.13$	PASS
116	5580	13.89	24.464	23.98 or $11+10\log(B) = 23.12$	PASS
140	5700	13.39	21.804	23.98 or $11+10\log(B) = 23.12$	PASS
144	5720(U-NII 2C)	12.43	17.505	23.98 or $11+10\log(B) = 23.15$	PASS
144	5720 (U-NII 3)	8.50	7.073	30	PASS
149	5745	13.86	24.296	30	PASS
157	5785	14.86	30.587	30	PASS
165	5825	14.90	30.870	30	PASS

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802.11a_2Tx

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
		CH 0	CH 1					
52	5260	15.22	13.91	17.88	61.374	23.98	or 11+10log(B) = 23.13	PASS
60	5300	13.52	12.59	16.35	43.107	23.98	or 11+10log(B) = 23.13	PASS
64	5320	13.47	12.91	16.46	44.306	23.98	or 11+10log(B) = 23.12	PASS
100	5500	13.49	13.93	16.98	49.902	23.98	or 11+10log(B) = 23.13	PASS
116	5580	13.62	13.72	16.94	49.385	23.98	or 11+10log(B) = 23.12	PASS
140	5700	13.43	12.87	16.42	43.900	23.98	or 11+10log(B) = 23.12	PASS
144	5720(U-NII 2C)	12.52	12.1	15.74	37.458	23.98	or 11+10log(B) = 23.12	PASS
144	5720 (U-NII 3)	7.365	8.161	10.58	11.418	30		PASS
149	5745	13.72	13.62	16.94	49.385	30		PASS
157	5785	14.91	14.48	17.97	62.603	30		PASS
165	5825	14.96	14.13	17.83	60.680	30		PASS

802.11n HT20 Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
52	5260	13.95	24.841	23.98	or 11+10log(B) = 23.42	PASS
60	5300	13.47	22.242	23.98	or 11+10log(B) = 23.43	PASS
64	5320	13.48	22.293	23.98	or 11+10log(B) = 23.42	PASS
100	5500	13.50	22.396	23.98	or 11+10log(B) = 23.41	PASS
116	5580	13.47	22.242	23.98	or 11+10log(B) = 23.42	PASS
140	5700	12.96	19.778	23.98	or 11+10log(B) = 23.43	PASS
144	5720(U-NII 2C)	12.28	16.919	23.98	or 11+11log(B) = 23.42	PASS
144	5720 (U-NII 3)	7.30	5.374	30		PASS
149	5745	13.48	22.293	30		PASS
157	5785	13.92	24.670	30		PASS
165	5825	13.99	25.071	30		PASS

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802.11n HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.88	24.444	23.98 or $11+10\log(B) = 23.42$	PASS
60	5300	13.39	21.836	23.98 or $11+10\log(B) = 23.41$	PASS
64	5320	13.38	21.786	23.98 or $11+10\log(B) = 23.40$	PASS
100	5500	13.43	22.038	23.98 or $11+10\log(B) = 23.44$	PASS
116	5580	13.40	21.886	23.98 or $11+10\log(B) = 23.42$	PASS
140	5700	12.89	19.461	23.98 or $11+10\log(B) = 23.42$	PASS
144	5720(U-NII 2C)	11.84	15.283	23.98 or $11+10\log(B) = 23.43$	PASS
144	5720 (U-NII 3)	8.13	6.502	30	PASS
149	5745	13.37	21.736	30	PASS
157	5785	13.86	24.332	30	PASS
165	5825	13.93	24.727	30	PASS

802.11n HT20 MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	14.05	12.74	16.98	49.845	23.98 or $11+10\log(B) = 23.42$	PASS
60	5300	13.45	12.35	16.47	44.328	23.98 or $11+10\log(B) = 23.41$	PASS
64	5320	13.35	12.51	16.48	44.487	23.98 or $11+10\log(B) = 23.40$	PASS
100	5500	12.66	13.25	16.50	44.638	23.98 or $11+10\log(B) = 23.41$	PASS
116	5580	12.79	12.89	16.37	43.374	23.98 or $11+10\log(B) = 23.42$	PASS
140	5700	12.71	12.17	15.98	39.632	23.98 or $11+10\log(B) = 23.42$	PASS
144	5720(U-NII 2C)	11.67	11.25	15.16	32.842	23.98 or $11+10\log(B) = 23.42$	PASS
144	5720 (U-NII 3)	6.691	7.539	10.18	10.432	30	PASS
149	5745	12.91	12.82	16.40	43.624	30	PASS
157	5785	13.7	13.17	16.98	49.832	30	PASS
165	5825	13.84	13	16.97	49.800	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	12.98	19.845	23.98 or $11+10\log(B) = 26.54$	PASS
62	5310	10.48	11.160	23.98 or $11+10\log(B) = 26.55$	PASS
102	5510	10.95	12.435	23.98 or $11+10\log(B) = 26.53$	PASS
110	5550	12.99	19.891	23.98 or $11+10\log(B) = 26.54$	PASS
134	5670	12.98	19.845	23.98 or $11+10\log(B) = 26.53$	PASS
142	5710(U-NII 2C)	12.42	17.472	23.98 or $11+11\log(B) = 26.55$	PASS
142	5710 (U-NII 3)	3.75	2.373	30	PASS
151	5755	11.49	14.082	30	PASS
159	5795	12.99	19.891	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	12.90	19.483	23.98 or $11+10\log(B) = 26.53$	PASS
62	5310	10.41	10.981	23.98 or $11+10\log(B) = 26.54$	PASS
102	5510	10.87	12.208	23.98 or $11+10\log(B) = 26.54$	PASS
110	5550	12.88	19.393	23.98 or $11+10\log(B) = 26.53$	PASS
134	5670	12.89	19.438	23.98 or $11+10\log(B) = 26.54$	PASS
142	5710(U-NII 2C)	12.19	16.560	23.98 or $11+10\log(B) = 26.55$	PASS
142	5710 (U-NII 3)	4.72	2.968	30	PASS
151	5755	11.38	13.729	30	PASS
159	5795	12.89	19.438	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	11.93	11.08	15.87	38.660	23.98 or $11+10\log(B) = 26.53$	PASS
62	5310	9.45	8.36	13.29	21.311	23.98 or $11+10\log(B) = 26.54$	PASS
102	5510	9.28	9.64	13.81	24.047	23.98 or $11+10\log(B) = 26.53$	PASS
110	5550	11.41	11.34	15.72	37.342	23.98 or $11+10\log(B) = 26.53$	PASS
134	5670	11.91	11.03	15.84	38.363	23.98 or $11+10\log(B) = 26.53$	PASS
142	5710(U-NII 2C)	11.30	10.28	15.24	33.416	23.98 or $11+10\log(B) = 26.55$	PASS
142	5710 (U-NII 3)	2.63	2.82	6.57	4.539	30	PASS
151	5755	10.05	9.88	14.31	26.994	30	PASS
159	5795	11.84	11.07	15.82	38.185	30	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	9.47	8.853	23.98 or 11+10log(B) = 29.74	PASS
106	5530	10.47	11.145	23.98 or 11+10log(B) = 29.74	PASS
122	5610	12.97	19.820	23.98 or 11+11log(B) = 29.74	PASS
138	5690(U-NII 2C)	12.70	18.601	23.98 or 11+12log(B) = 29.71	PASS
138	5690 (U-NII 3)	1.17	1.310	30	PASS
155	5775	10.46	11.120	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	9.38	8.672	23.98 or 11+10log(B) = 29.75	PASS
106	5530	10.36	10.867	23.98 or 11+10log(B) = 29.75	PASS
122	5610	12.86	19.324	23.98 or 11+10log(B) = 29.74	PASS
138	5690(U-NII 2C)	12.61	18.221	23.98 or 11+10log(B) = 29.75	PASS
138	5690 (U-NII 3)	1.08	1.281	30	PASS
155	5775	10.36	10.867	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	8.61	8.02	12.36	17.204	23.98 or 11+10log(B) = 29.74	PASS
106	5530	9.14	9.53	13.37	21.730	23.98 or 11+10log(B) = 29.74	PASS
122	5610	12.25	11.59	15.96	39.480	23.98 or 11+10log(B) = 29.74	PASS
138	5690(U-NII 2C)	11.90	11.32	15.66	36.773	23.98 or 11+10log(B) = 29.71	PASS
138	5690 (U-NII 3)	0.38	-0.20	4.13	2.591	30	PASS
155	5775	9.48	9.24	13.39	21.842	30	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY	LIMIT
U-NII-1	Access Point (Master device)	17dBm/ MHz
	Fixed point-to-point Access Ponit	
	√ 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 FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain
 $= 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi

[Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

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

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10.2 Measurement Procedure

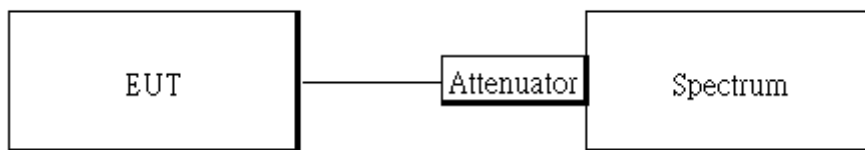
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set 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=500 kHz, VBW≥ 3RBW, 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)
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. 802.11n/ac 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. N=3 for this given application.

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

10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
DC Block	PASTERNAK	PE8210	RF32	11/20/2019	11/19/2020
Spectrum Analyzer	Agilent	N9010A	MY57120200	03/06/2019	03/05/2020
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/09/2019	07/08/2020
Attenuator	Marvelous	MVE2213-10	RF31	11/20/2019	11/19/2020

10.4 Test Set-up



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10.5 Measurement Result

10.5.1 Power spectral density

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180.00	3.77	0.26	4.03	11.00	-6.97
5220.00	4.19	0.26	4.45	11.00	-6.55
5240.00	4.32	0.26	4.58	11.00	-6.42
5260.00	7.28	0.26	7.54	11.00	-3.46
5300.00	4.99	0.26	5.25	11.00	-5.75
5320.00	4.97	0.26	5.23	11.00	-5.77
5500.00	5.87	0.26	6.13	11.00	-4.87
5580.00	5.66	0.26	5.92	11.00	-5.08
5700.00	6.17	0.26	6.43	11.00	-4.57
5720 (U-NII 2C)	5.40	0.26	5.66	11.00	-5.34
5720 (U-NII 3)	1.20	0.26	1.46	30.00	-28.54
5745.00	3.46	0.26	3.72	30.00	-26.28
5785.00	4.38	0.26	4.64	30.00	-25.36
5825.00	4.48	0.26	4.74	30.00	-25.26

POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	4.03	0.52	4.55	11	-6.45
5220	4.00	0.52	4.52	11	-6.48
5240	4.11	0.52	4.63	11	-6.37
5260	6.00	0.52	6.52	11	-4.48
5300	5.87	0.52	6.39	11	-4.61
5320	5.06	0.52	5.58	11	-5.42
5500	5.40	0.52	5.92	11	-5.08
5580	4.81	0.52	5.33	11	-5.67
5700	5.06	0.52	5.58	11	-5.42
5720 (U-NII 2C)	4.73	0.52	5.25	11	-5.75
5720 (U-NII 3)	0.17	0.52	0.69	30	-29.31
5745	2.57	0.52	3.09	30	-26.91
5785	3.56	0.52	4.08	30	-25.92
5825	4.62	0.52	5.14	30	-24.86

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POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	0.34	1.34	1.68	11	-9.32
5230	2.88	1.34	4.22	11	-6.78
5270	2.97	1.34	4.31	11	-6.69
5310	0.39	1.34	1.73	11	-9.27
5510	-0.85	1.34	0.49	11	-10.51
5550	2.75	1.34	4.09	11	-6.91
5670	2.64	1.34	3.98	11	-7.02
5710 (U-NII 2C)	2.87	1.34	4.21	11	-6.79
5710 (U-NII 3)	-3.37	1.34	-2.03	30	-32.03
5755	-1.40	1.34	-0.06	30	-30.06
5795	-0.12	1.34	1.22	30	-28.78

POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-4.29	1.02	-3.27	11	-14.27
5290	-4.36	1.02	-3.34	11	-14.34
5530	-3.99	1.02	-2.97	11	-13.97
5610	-0.84	1.02	0.18	11	-10.82
5690 (U-NII 2C)	-1.57	1.02	-0.55	11	-11.55
5690 (U-NII 3)	-9.51	1.02	-8.49	30	-38.49
5775	-5.46	1.02	-4.44	30	-34.44

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10.5.2 EIRP spectral density (ISED)

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	4.03	5.28	9.30	10	-0.70
5220	4.45	5.28	9.72	10	-0.28
5240	4.58	5.28	9.85	10	-0.15

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	4.55	5.28	9.83	10	-0.17
5220	4.52	5.28	9.80	10	-0.20
5240	4.63	5.28	9.91	10	-0.09

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5190	1.68	5.28	6.96	10	-3.04
5230	4.22	5.28	9.50	10	-0.50

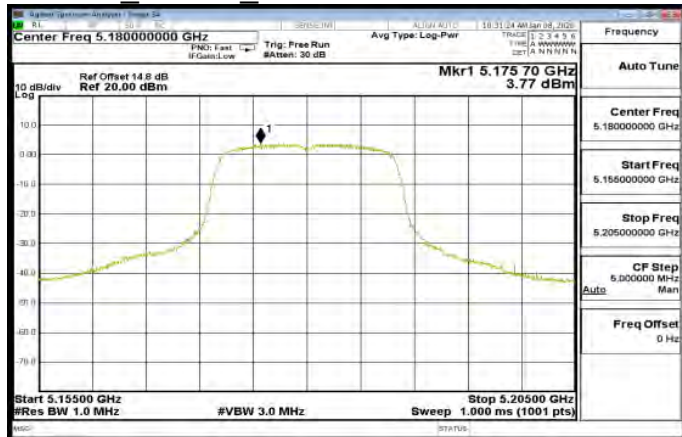
EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-3.27	5.28	2.01	10	-7.99

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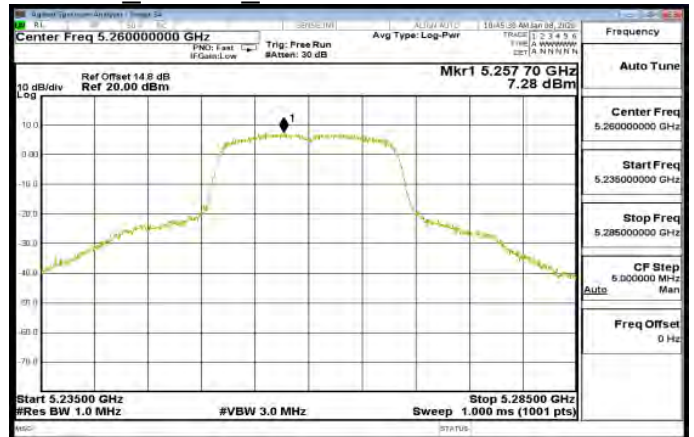
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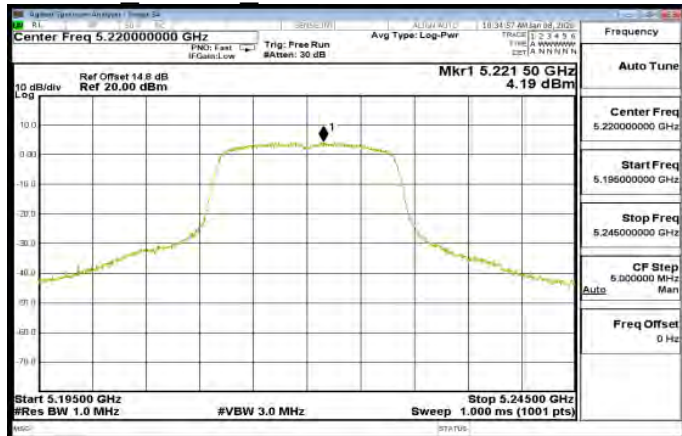
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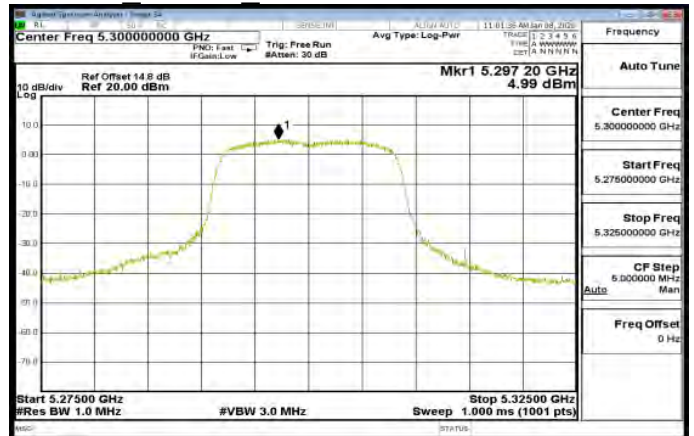
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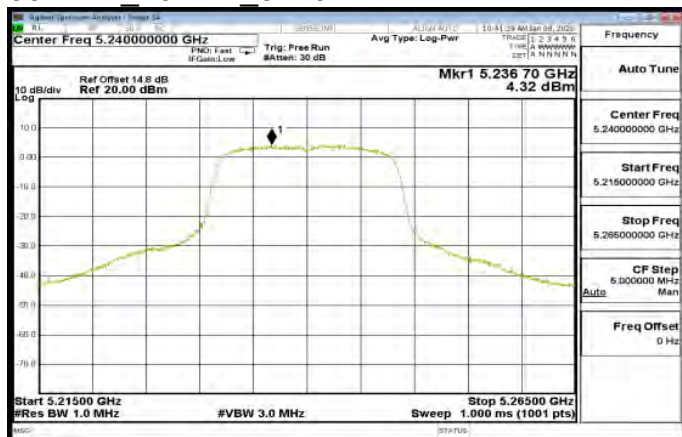
802.11a 20MHz 5220MHz



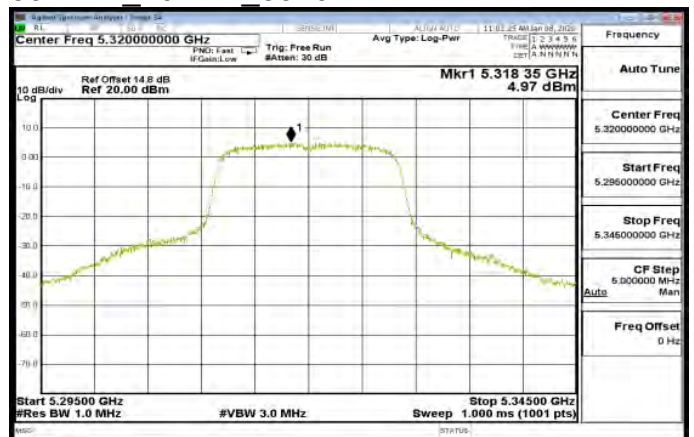
802.11a 20MHz 5300MHz



802.11a 20MHz 5240MHz



802.11a 20MHz 5320MHz

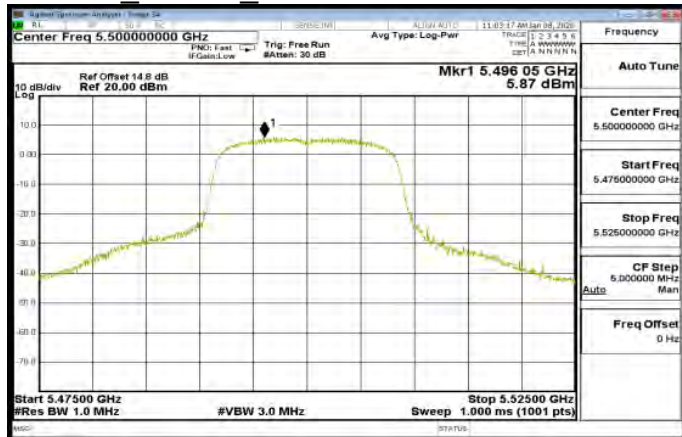


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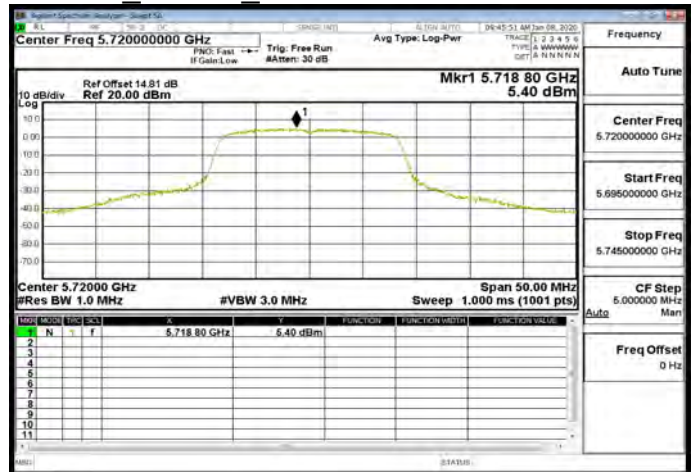
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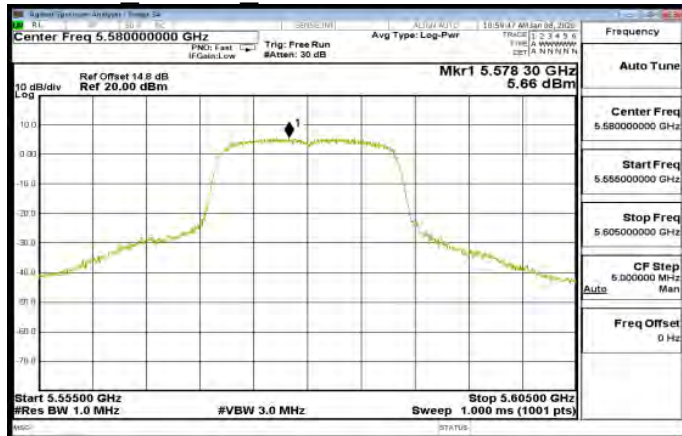
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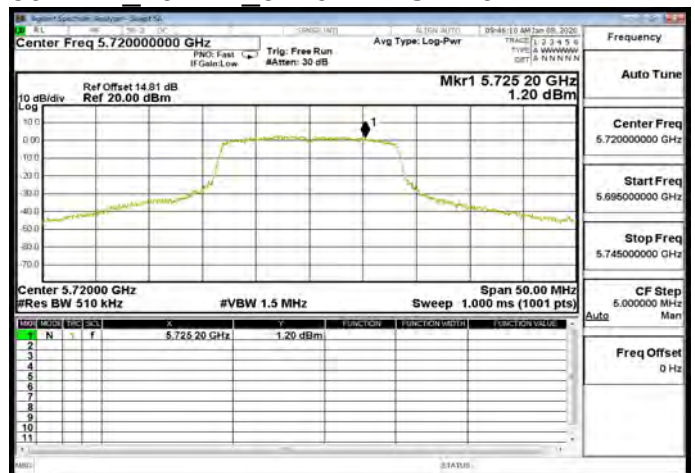
802.11a 20MHz 5720MHz UNII 2C



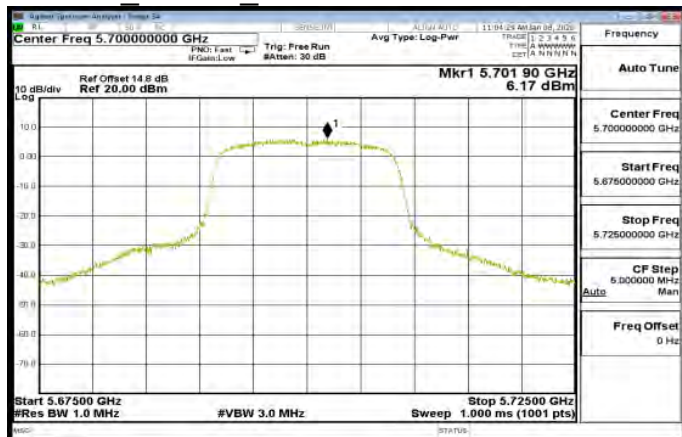
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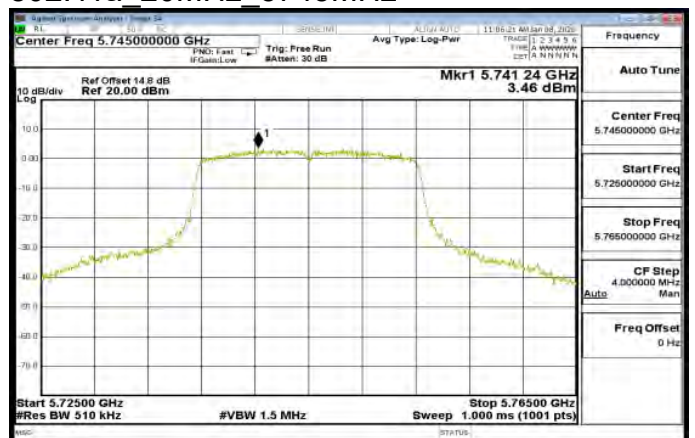
802.11a 20MHz 5720MHz UNII 3



802.11a 20MHz 5700MHz



802.11a 20MHz 5745MHz

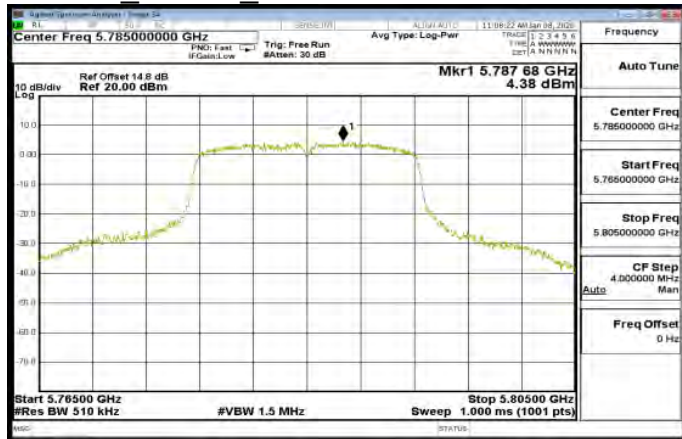


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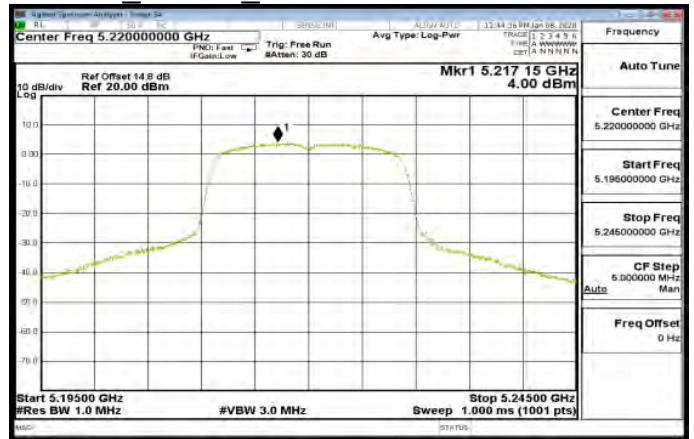
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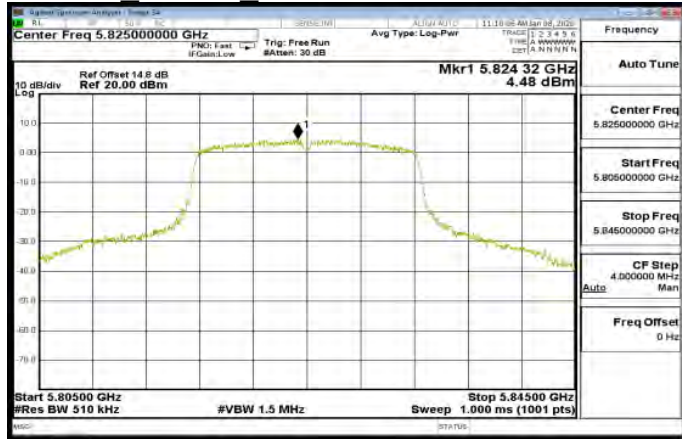
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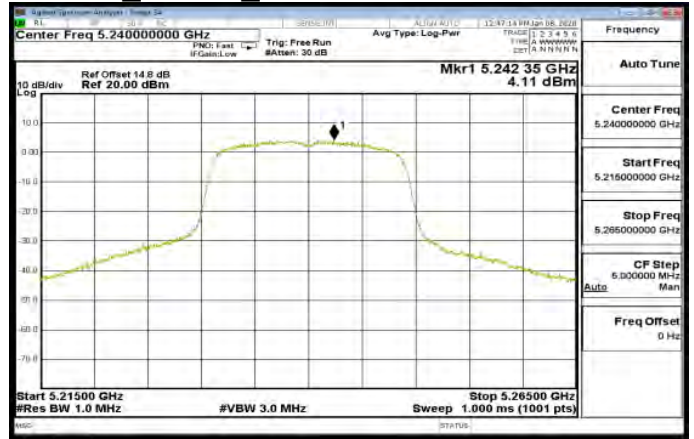
802.11n 20MHz 5220MHz



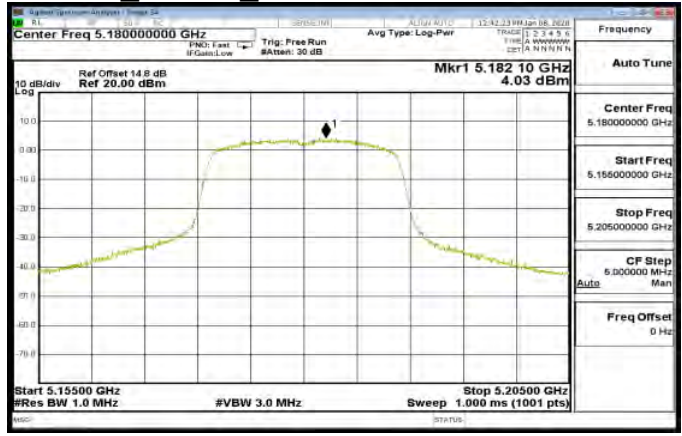
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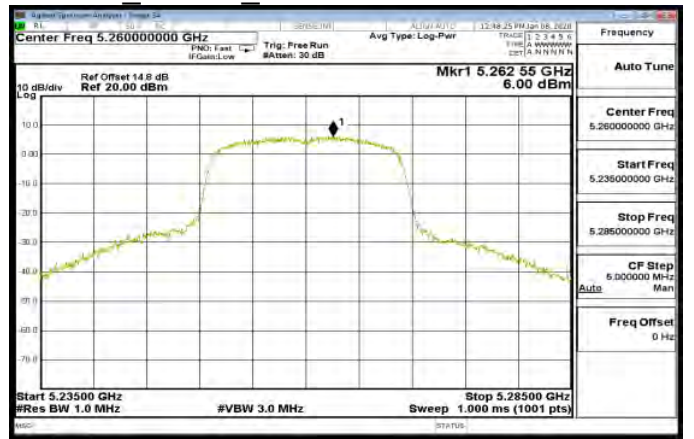
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802.11n 20MHz 5180MHz



802.11n 20MHz 5260MHz

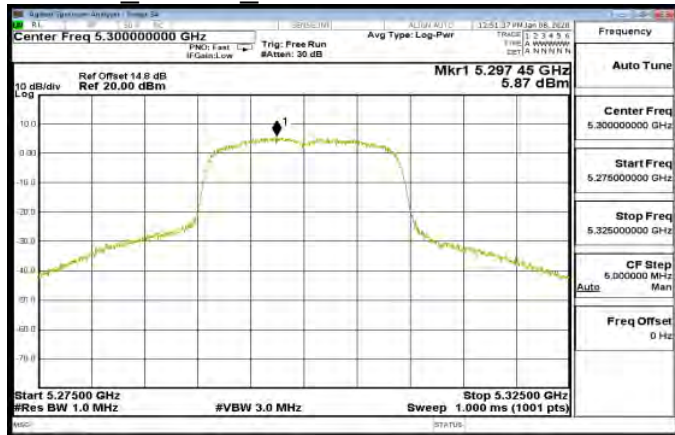


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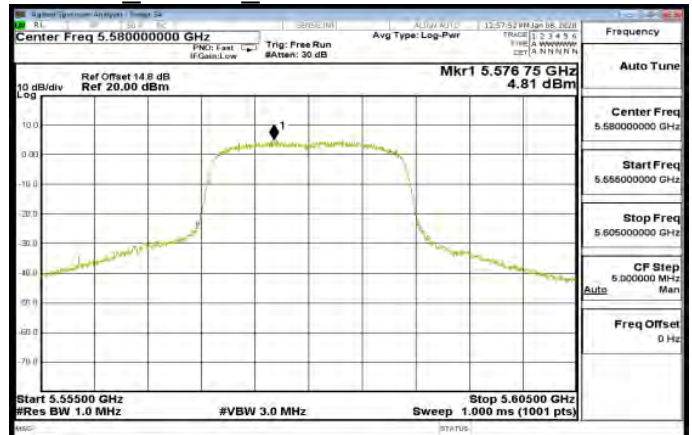
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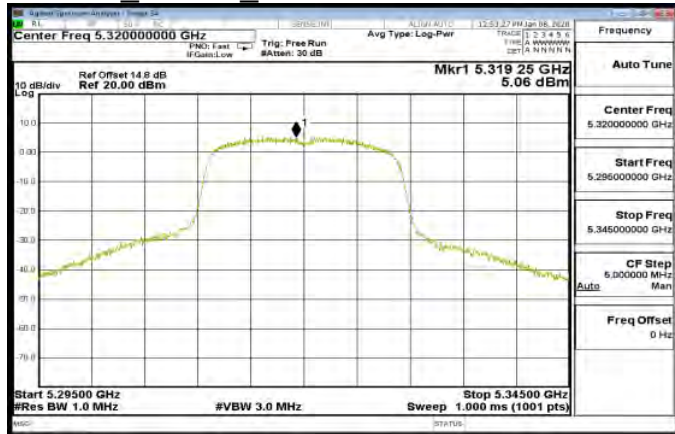
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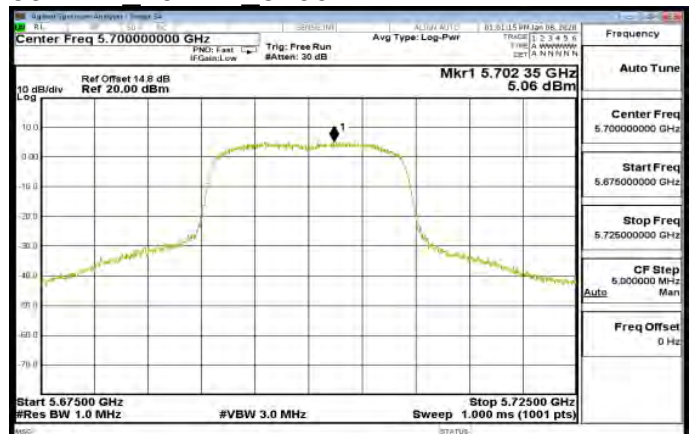
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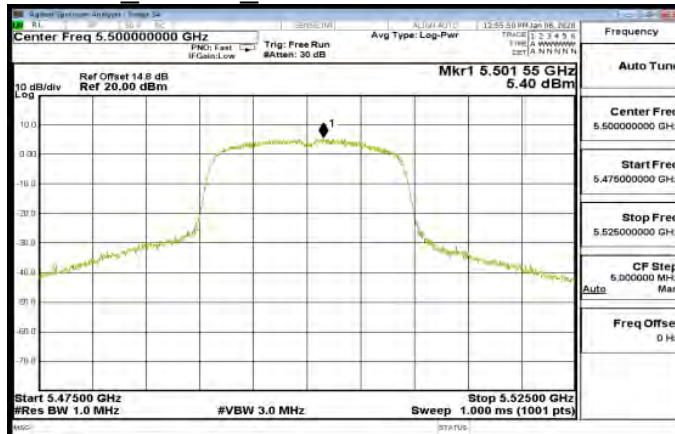
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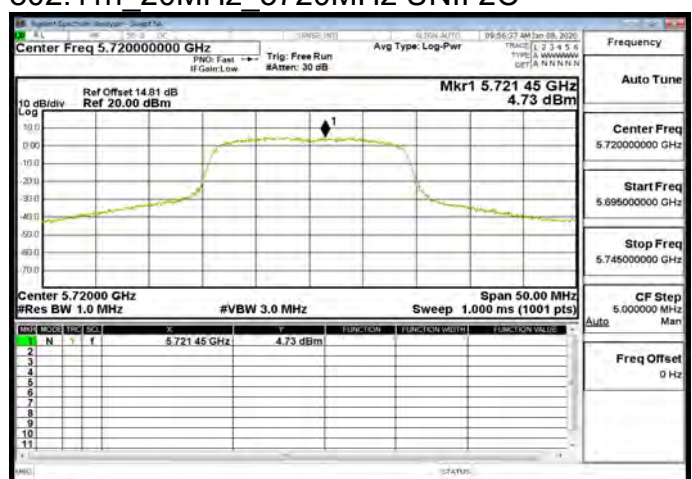
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802.11n 20MHz 5500MHz



802.11n 20MHz 5720MHz UNII 2C

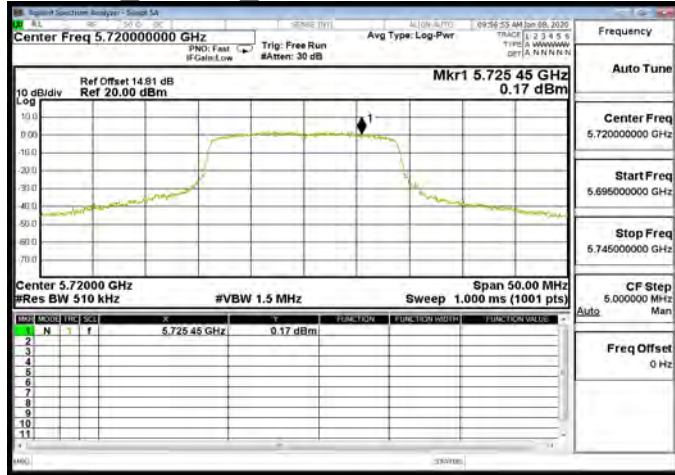


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802.11n 20MHz 5720MHz UNII 3



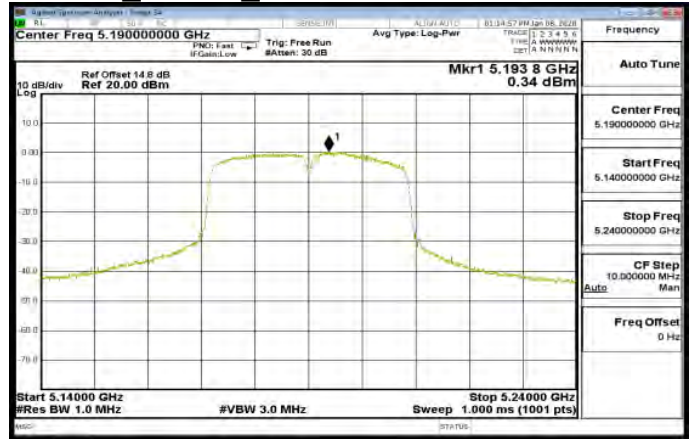
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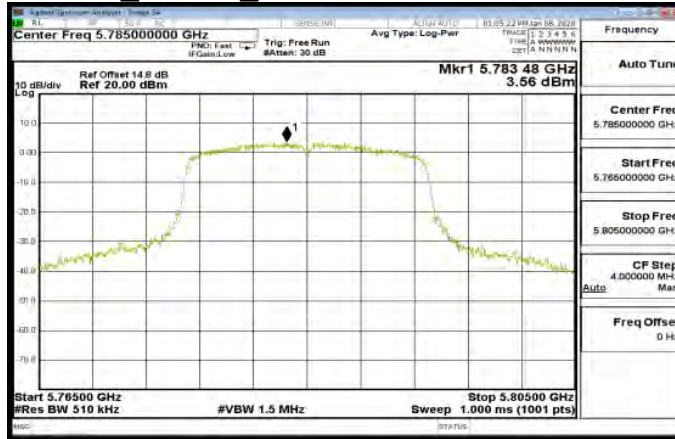
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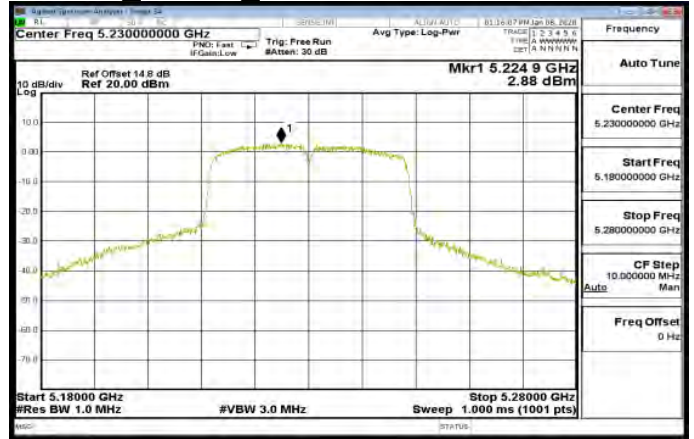
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802.11n 20MHz 5785MHz



802.11n 40MHz 5230MHz

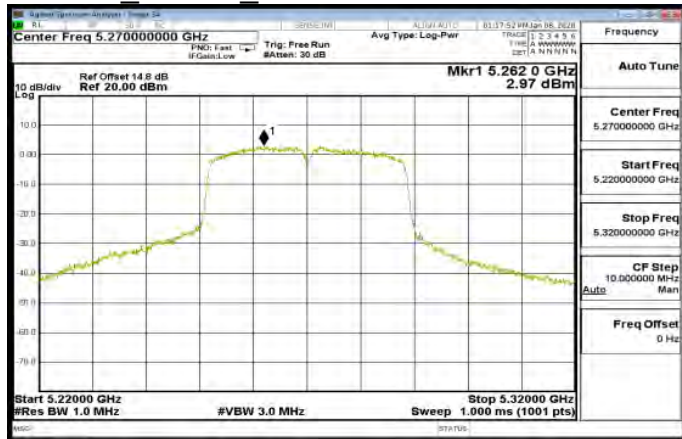


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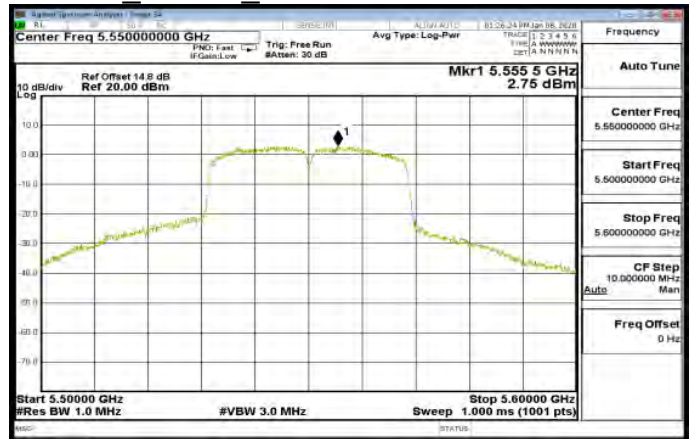
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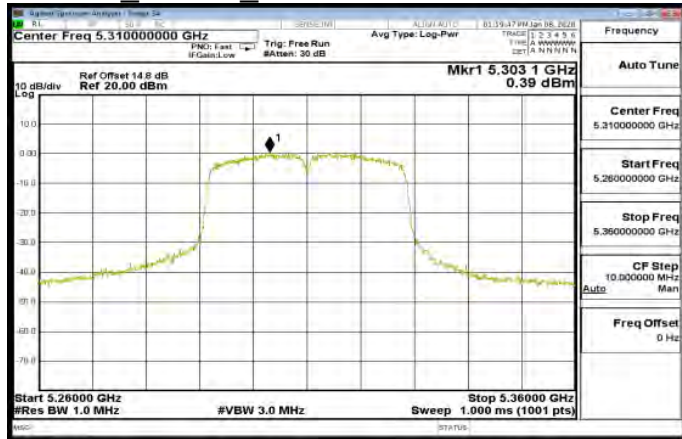
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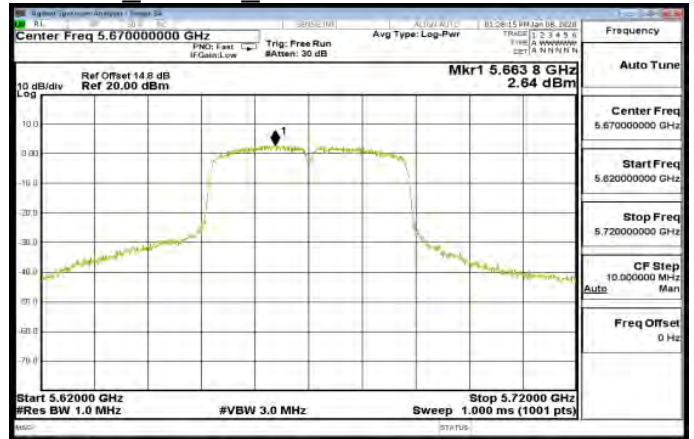
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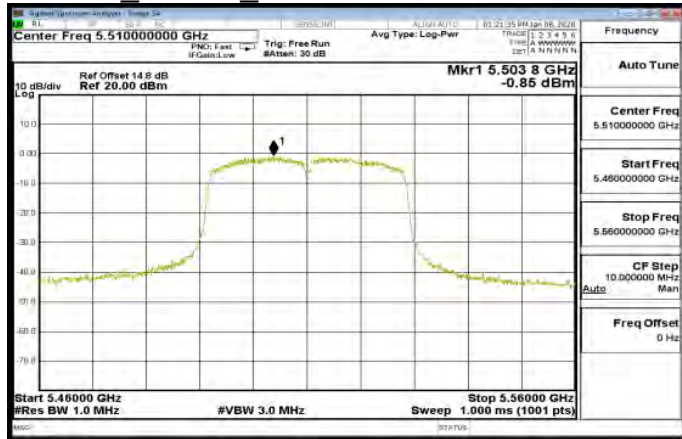
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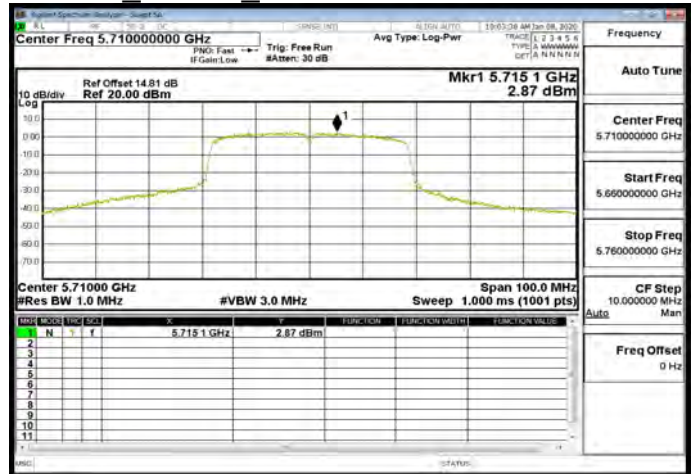
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802.11n 40MHz 5510MHz



802.11n 40MHz 5710MHz UNII 2C

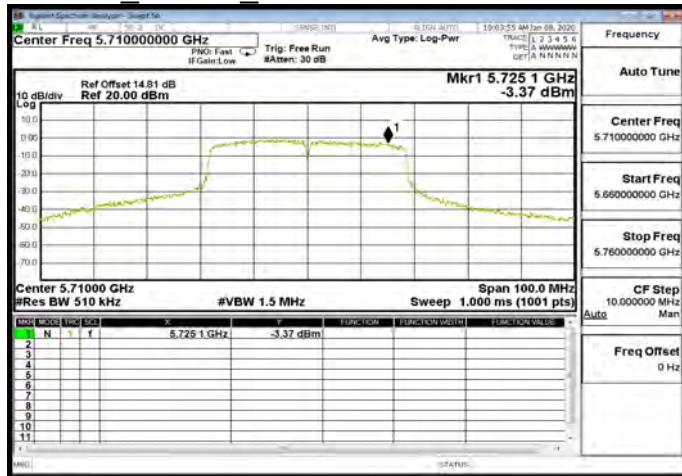


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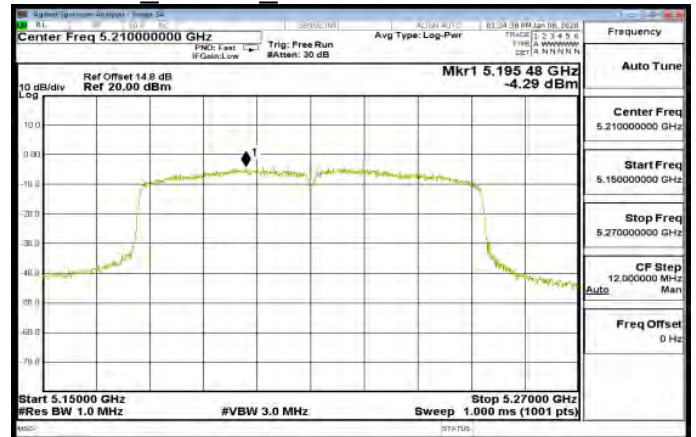
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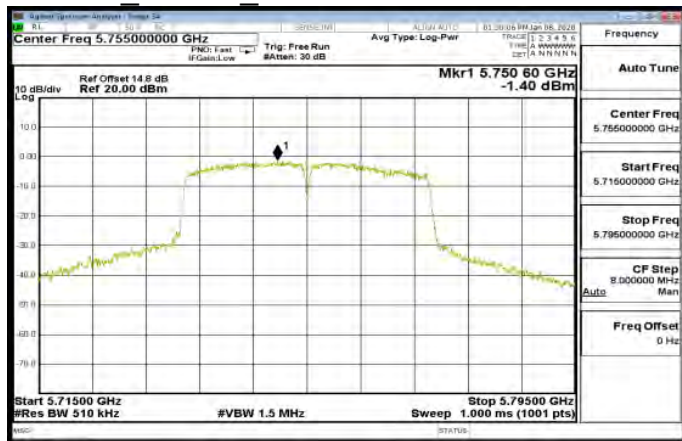
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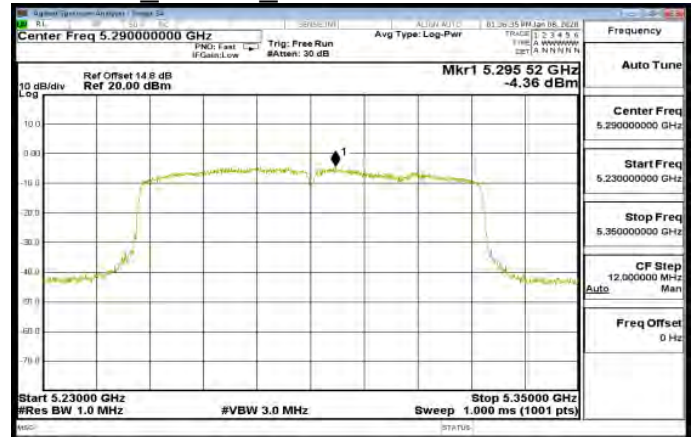
802.11ac 80MHz 5210MHz



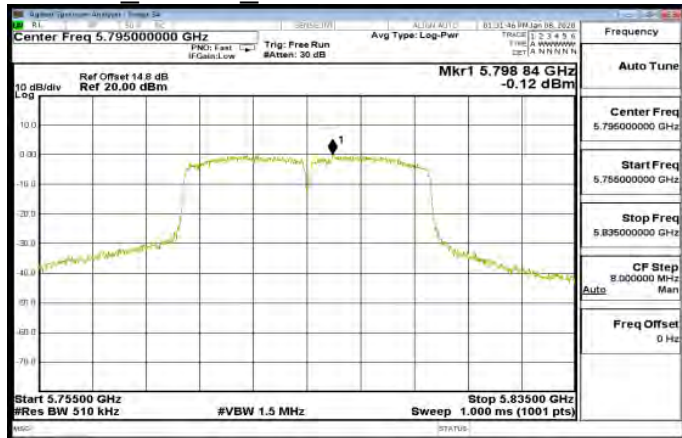
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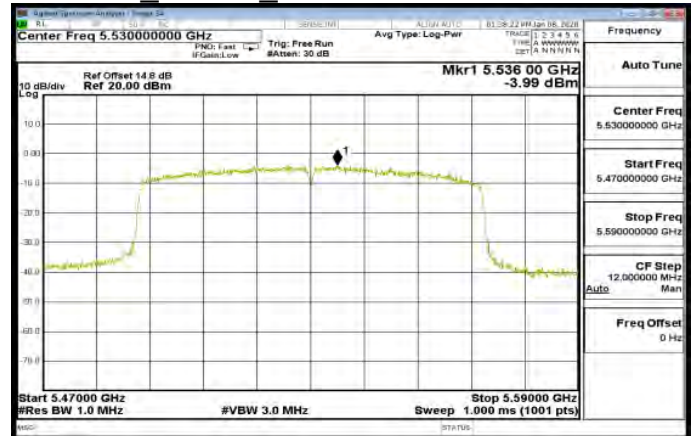
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802.11n 40MHz 5795MHz



802.11ac 80MHz 5530MHz

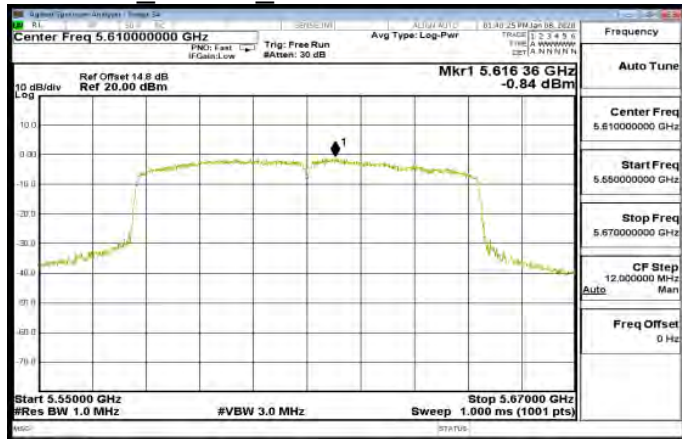


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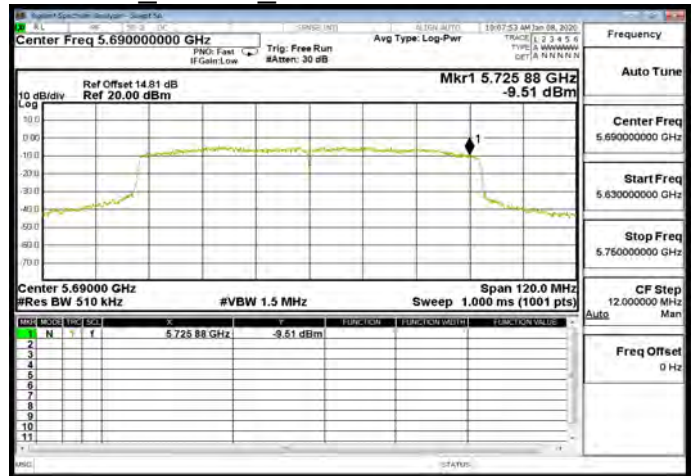
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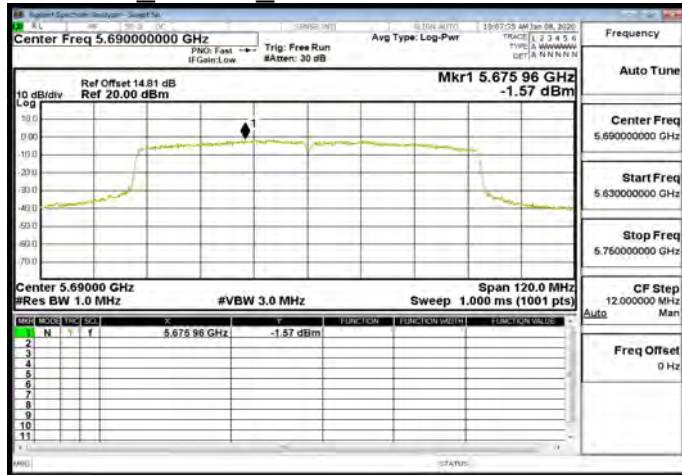
802.11ac 80MHz 5610MHz



802.11ac 80MHz 5690MHz UNII 3



802.11ac 80MHz 5690MHz UNII 2C



802.11ac 80MHz 5775MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 Band Edge

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 §6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.3 (dBµV/m)
15.407(b)(2) RSS-247 §6.2.2.2		
15.407(b)(3) RSS-247 §6.2.3.2		
15.407(b)(4)(i) RSS-247 §6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4
<p>*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p>		

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m),
EIRP is the equivalent isotropically radiated power in Watts.

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11.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (dB μ V/m)

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11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	10/30/2018	10/29/2019
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/12/2019	06/11/2020
Loop Antenna	ETS.LINDGREN	6502	143303	04/25/2019	04/24/2020
3m Site NSA	SGS	966 chamber D	N/A	07/12/2019	07/11/2020
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/15/2019	07/14/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/25/2018	12/24/2019
Pre-Amplifier	EMC Instruments	EMC9135	980234	12/25/2018	12/24/2019
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	12/25/2018	12/24/2019
Attenuator	Woken	WATT-218FS-10	RF25	12/25/2018	12/24/2019
High Pass Filter	R&S	F13 HPF 3GHz	RF64	12/25/2018	12/24/2019
Low Pass Filter	EWT	EWT-56-0019	RF46	12/25/2018	12/24/2019
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	12/25/2018	12/24/2019
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	12/25/2018	12/24/2019
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	12/25/2018	12/24/2019

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/04/2019	11/03/2020

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

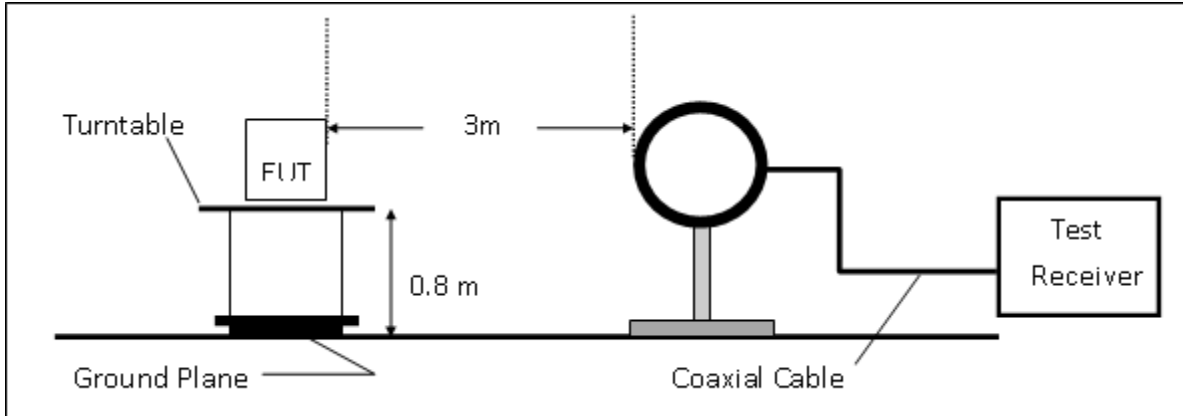
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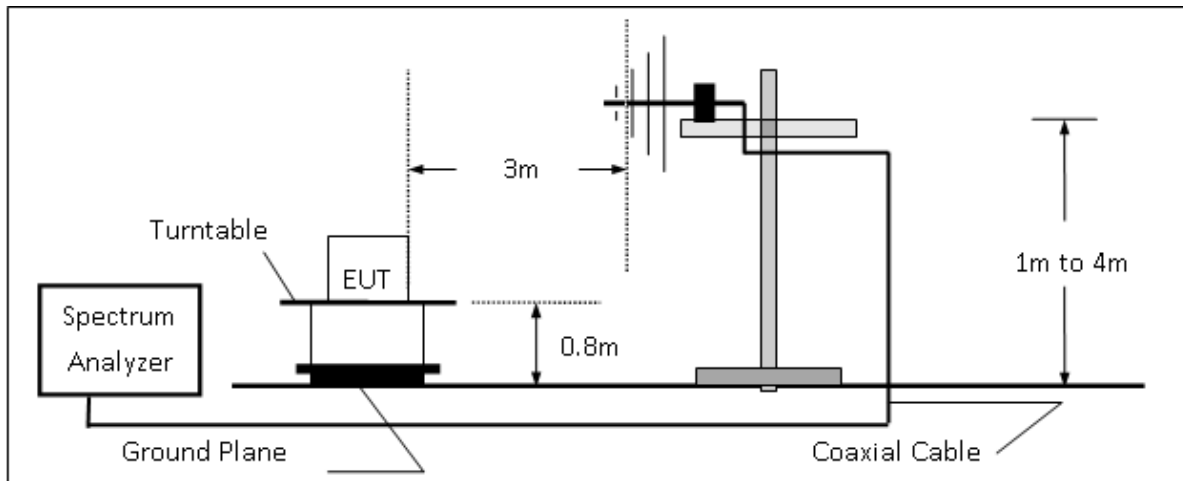
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11.3 Test SET-UP

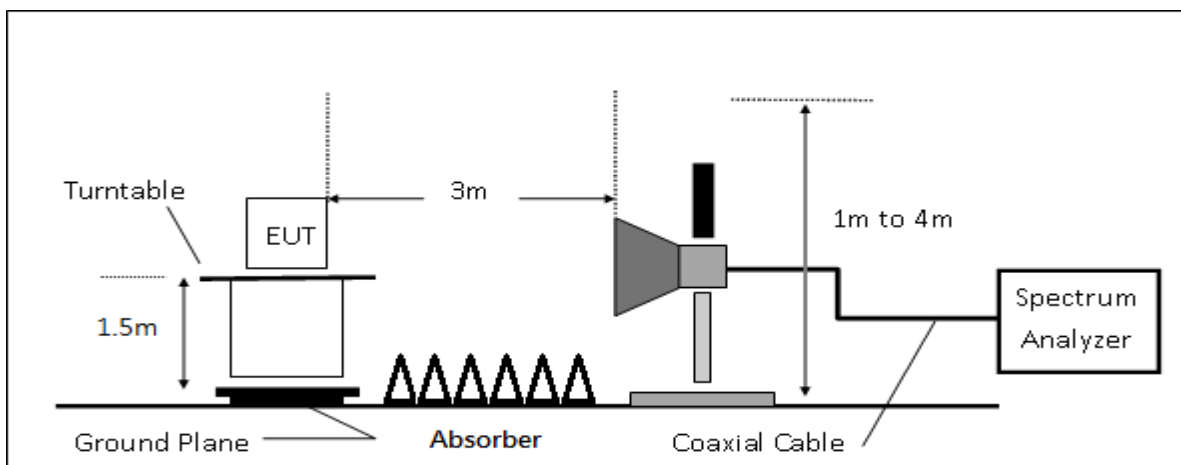
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW \geq 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

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11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS = Field Strength*

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

Actual FS(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

11.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

Pre-scanned was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

11.7 Radiated Spurious Emission Measurement Result

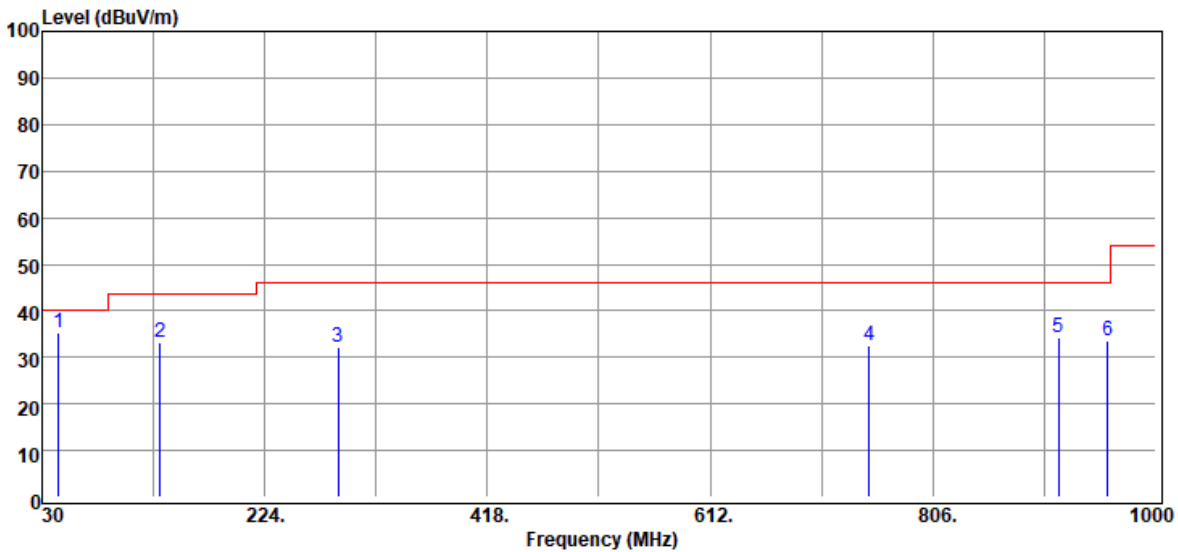
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11.7.1 Below 1GHz Worst-Case Data:

Report Number	:E2/2019/90023	Test Date	:2019-11-14
Operation Mode	:802.11a / Band 1	Temp./Humi.	:23.2/63
Test Channel	:5220 MHz	Antenna Pol.	:VERTICAL
Test Mode	:TX CH MID	Engineer	:Kailin
EUT Pol	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
44.55	Peak	52.35	-16.94	35.41	40.00	-4.59
132.82	Peak	50.80	-17.75	33.05	43.50	-10.45
288.02	Peak	47.82	-15.73	32.09	46.00	-13.91
750.71	Peak	39.22	-6.78	32.44	46.00	-13.56
915.61	Peak	38.76	-4.35	34.41	46.00	-11.59
958.29	Peak	37.71	-4.06	33.65	46.00	-12.35

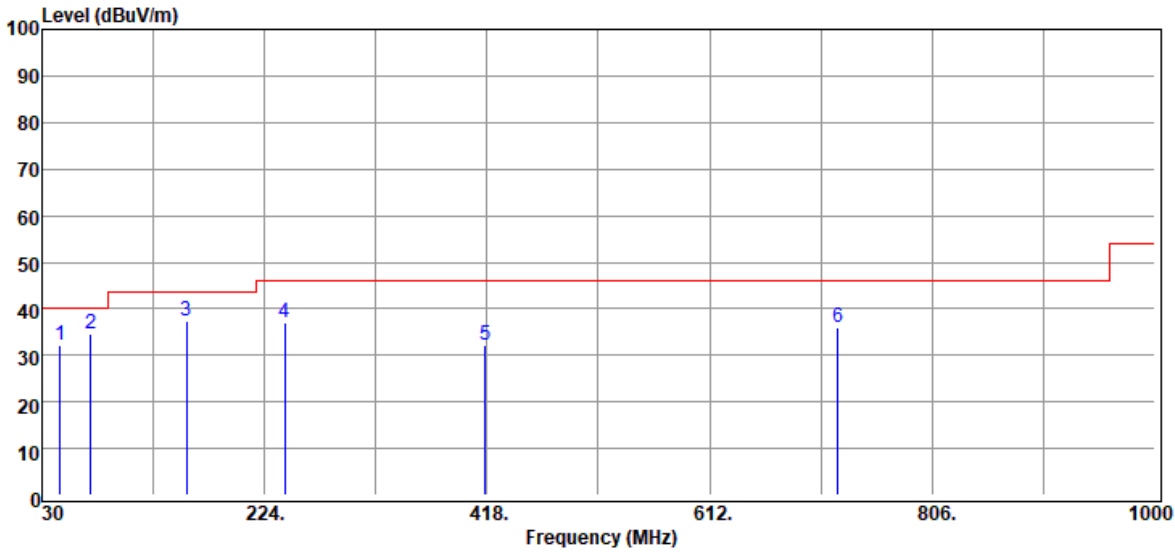
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 1
Test Channel :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-11-14
Temp./Humi. :23.2/63
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
45.52	Peak	48.99	-16.86	32.13	40.00	-7.87
72.68	Peak	54.43	-19.91	34.52	40.00	-5.48
156.10	Peak	53.96	-16.57	37.39	43.50	-6.11
241.46	Peak	54.05	-17.14	36.91	46.00	-9.09
416.06	Peak	44.79	-12.46	32.33	46.00	-13.67
723.55	Peak	43.51	-7.56	35.95	46.00	-10.05

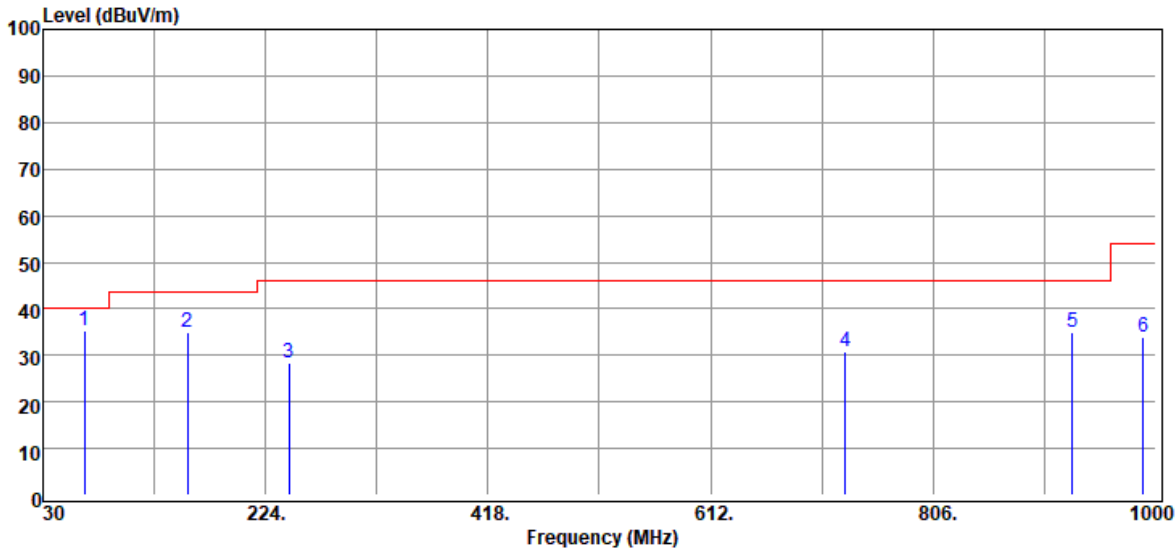
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Report Number :E2/2019/90023
 Operation Mode :802.11a / Band 1
 Test Channel :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-11-14
 Temp./Humi. :23.2/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
65.89	Peak	53.84	-18.58	35.26	40.00	-4.74
156.10	Peak	51.37	-16.57	34.80	43.50	-8.70
244.37	Peak	45.45	-17.04	28.41	46.00	-17.59
729.37	Peak	38.20	-7.25	30.95	46.00	-15.05
927.25	Peak	39.20	-4.26	34.94	46.00	-11.06
989.33	Peak	37.64	-3.58	34.06	54.00	-19.94

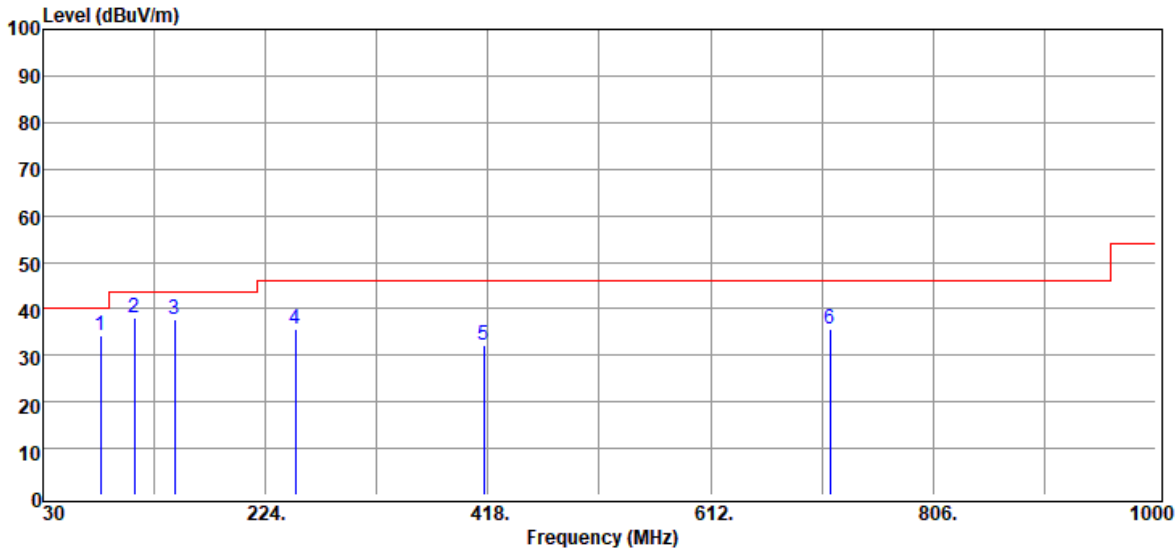
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Report Number :E2/2019/90023
 Operation Mode :802.11a / Band 1
 Test Channel :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-11-14
 Temp./Humi. :23.2/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
80.44	Peak	55.81	-21.61	34.20	40.00	-5.80
109.54	Peak	58.38	-20.35	38.03	43.50	-5.47
144.46	Peak	54.40	-16.52	37.88	43.50	-5.62
250.19	Peak	52.44	-16.83	35.61	46.00	-10.39
414.12	Peak	44.76	-12.47	32.29	46.00	-13.71
715.79	Peak	43.30	-7.82	35.48	46.00	-10.52

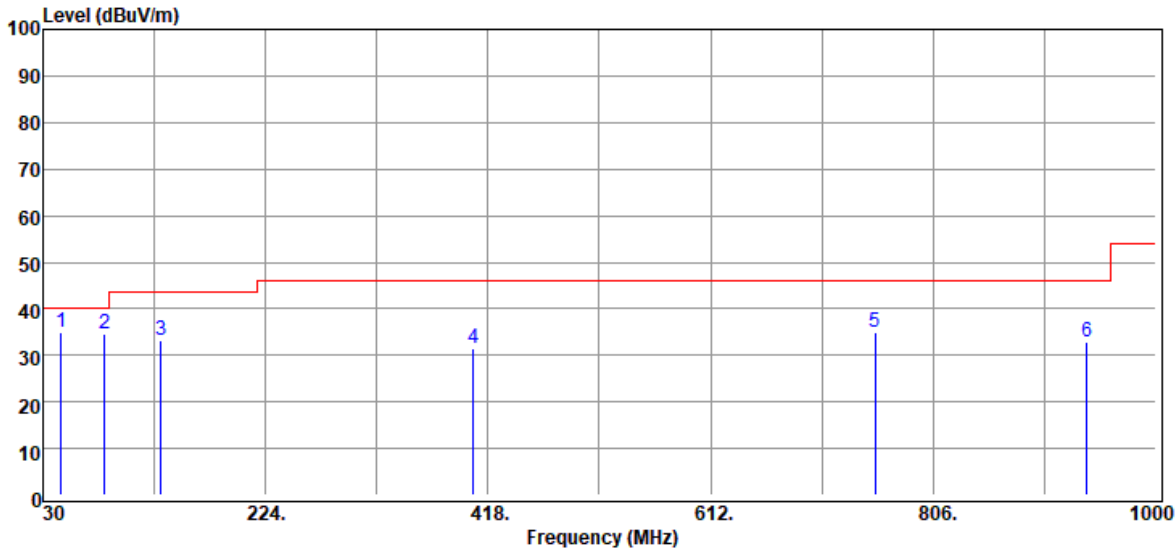
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Report Number :E2/2019/90023
 Operation Mode :802.11a / Band 1
 Test Channel :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-11-14
 Temp./Humi. :23.2/63
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
45.52	Peak	51.84	-16.86	34.98	40.00	-5.02
83.35	Peak	56.66	-22.03	34.63	40.00	-5.37
132.82	Peak	50.83	-17.75	33.08	43.50	-10.42
405.39	Peak	44.06	-12.69	31.37	46.00	-14.63
755.56	Peak	41.75	-6.75	35.00	46.00	-11.00
939.86	Peak	37.25	-4.46	32.79	46.00	-13.21

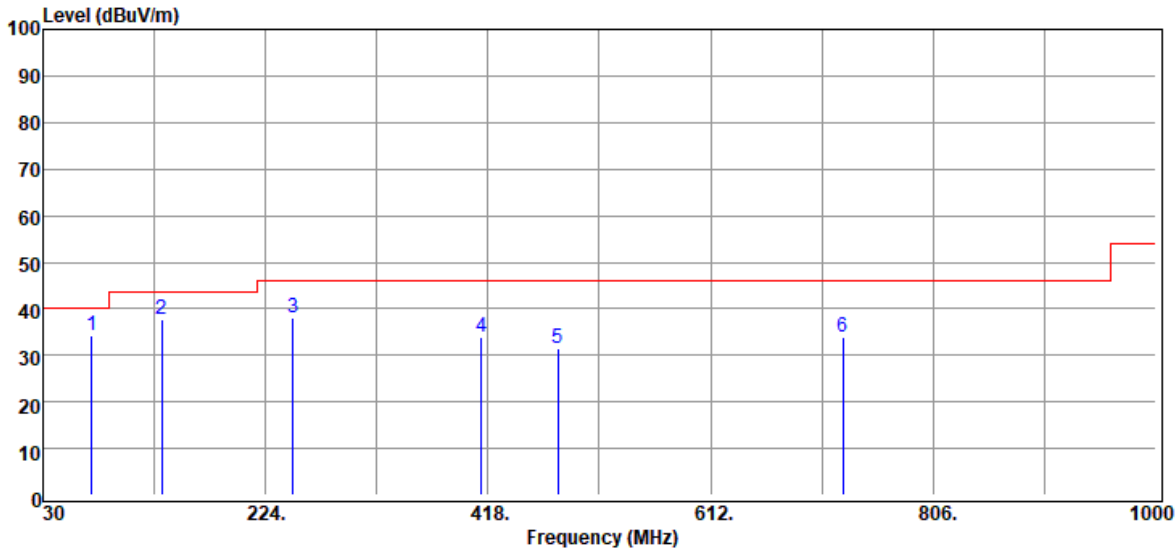
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Report Number :E2/2019/90023
 Operation Mode :802.11a / Band 1
 Test Channel :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-11-14
 Temp./Humi. :23.2/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
72.68	Peak	54.28	-19.91	34.37	40.00	-5.63
133.79	Peak	55.45	-17.64	37.81	43.50	-5.69
248.25	Peak	55.12	-16.90	38.22	46.00	-7.78
412.18	Peak	46.43	-12.50	33.93	46.00	-12.07
479.11	Peak	42.60	-11.13	31.47	46.00	-14.53
727.43	Peak	41.33	-7.35	33.98	46.00	-12.02

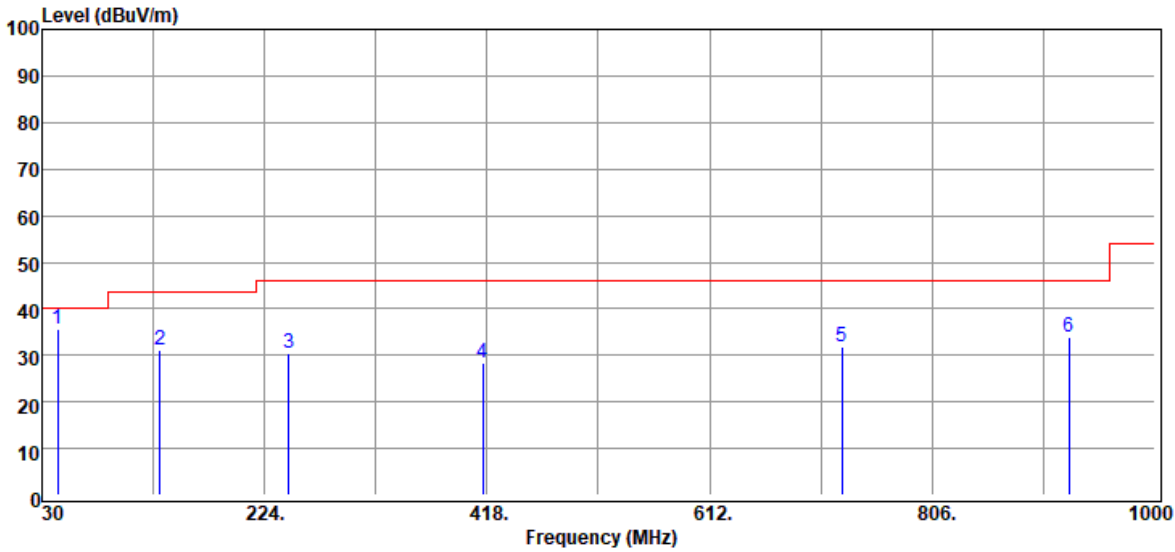
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 1
Test Channel :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-11-14
Temp./Humi. :23.2/63
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
43.58	Peak	52.73	-17.03	35.70	40.00	-4.30
132.82	Peak	49.06	-17.75	31.31	43.50	-12.19
245.34	Peak	47.37	-17.00	30.37	46.00	-15.63
414.12	Peak	40.92	-12.47	28.45	46.00	-17.55
727.43	Peak	39.32	-7.35	31.97	46.00	-14.03
925.31	Peak	38.18	-4.26	33.92	46.00	-12.08

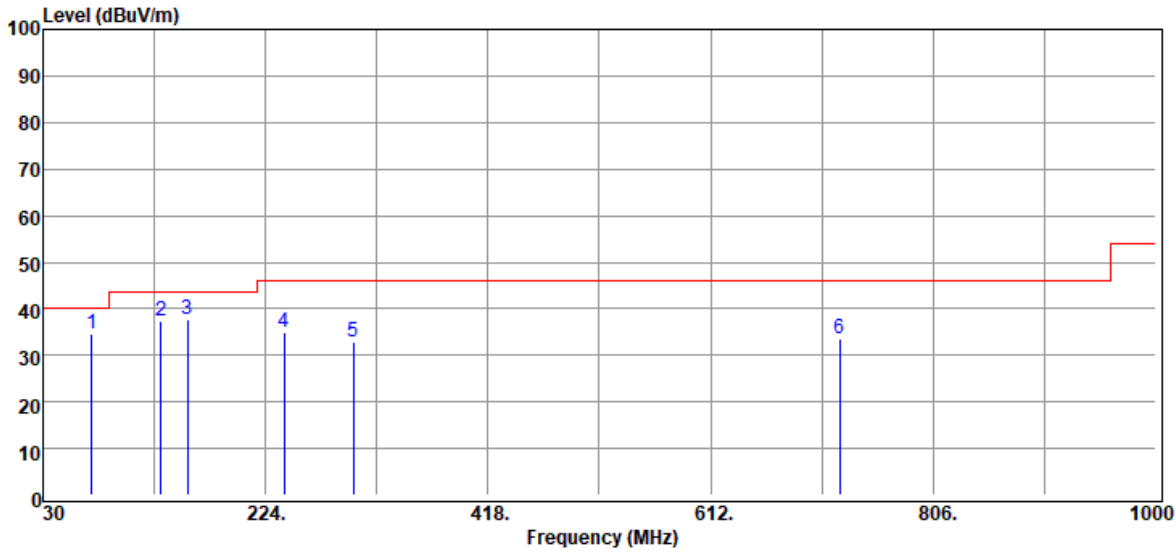
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Report Number :E2/2019/90023
 Operation Mode :802.11a / Band 1
 Test Channel :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-11-14
 Temp./Humi. :23.2/63
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
72.68	Peak	54.44	-19.91	34.53	40.00	-5.47
132.82	Peak	55.01	-17.75	37.26	43.50	-6.24
156.10	Peak	54.37	-16.57	37.80	43.50	-5.70
240.49	Peak	52.04	-17.17	34.87	46.00	-11.13
300.63	Peak	48.09	-15.36	32.73	46.00	-13.27
724.52	Peak	40.92	-7.49	33.43	46.00	-12.57

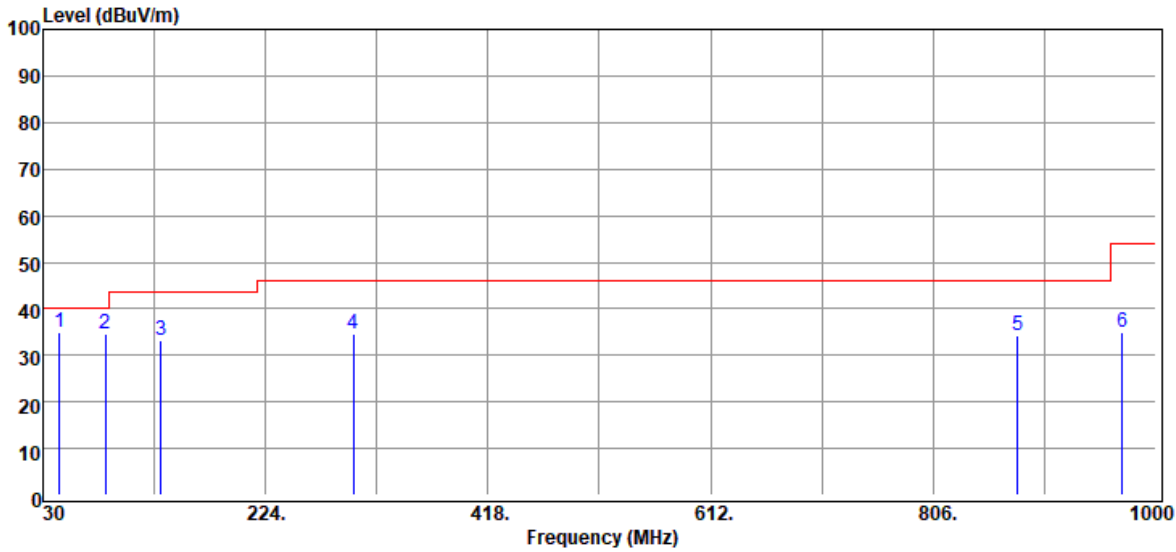
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Report Number :E2/2019/90023
 Operation Mode :802.11ac80 / Band 1
 Test Channel :5210 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-11-14
 Temp./Humi. :23.1/64
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
44.55	Peak	51.73	-16.94	34.79	40.00	-5.21
84.32	Peak	56.74	-22.16	34.58	40.00	-5.42
132.82	Peak	50.81	-17.75	33.06	43.50	-10.44
300.63	Peak	49.97	-15.36	34.61	46.00	-11.39
879.72	Peak	39.50	-5.28	34.22	46.00	-11.78
970.90	Peak	38.01	-3.13	34.88	54.00	-19.12

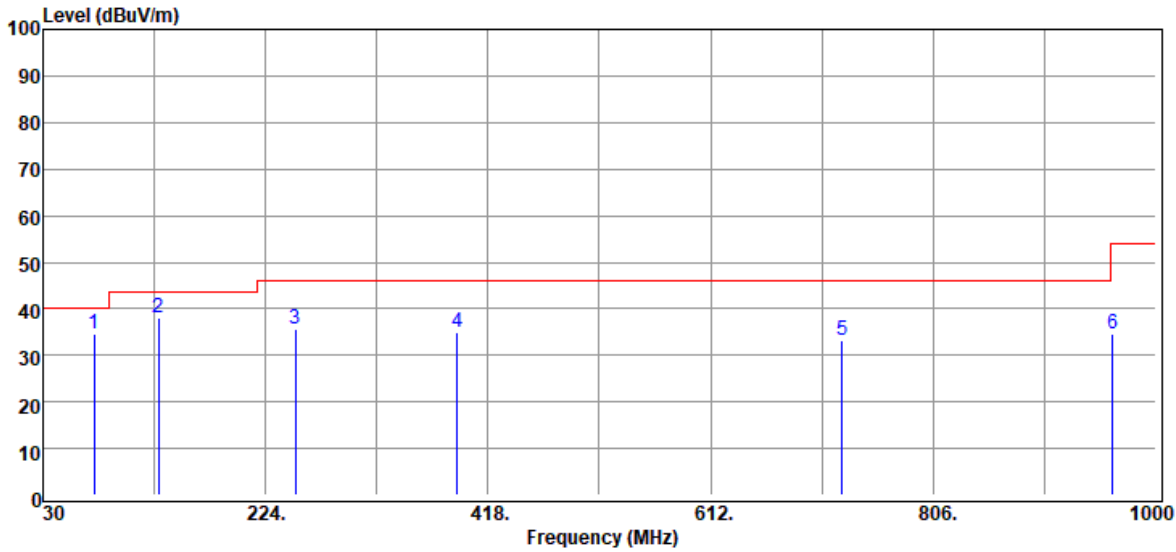
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Report Number :E2/2019/90023
 Operation Mode :802.11ac80 / Band 1
 Test Channel :5210 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-11-14
 Temp./Humi. :23.1/64
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



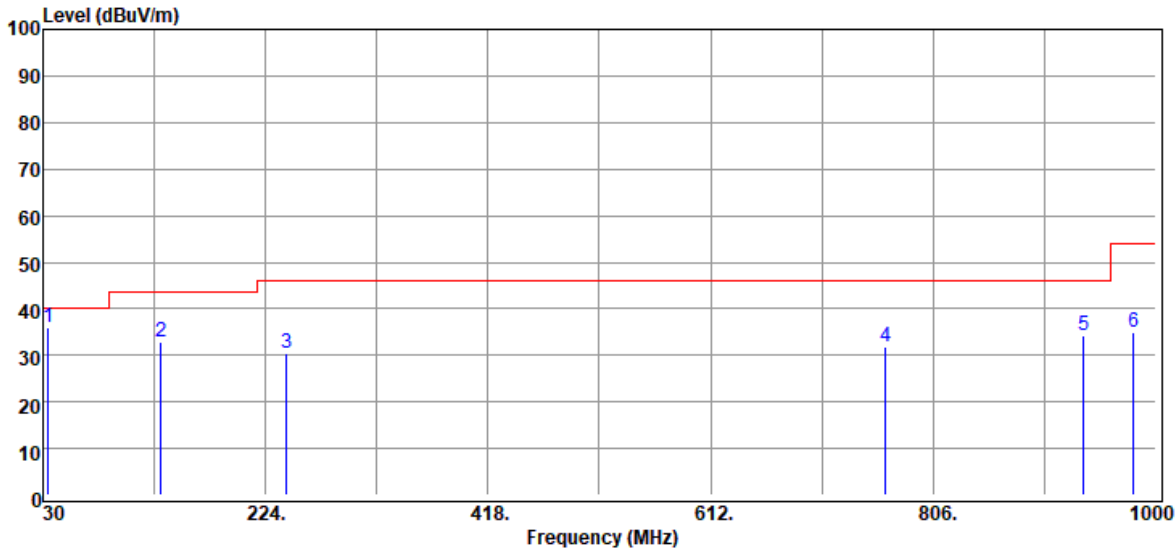
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.62	Peak	55.07	-20.36	34.71	40.00	-5.29
130.88	Peak	55.94	-17.99	37.95	43.50	-5.55
250.19	Peak	52.41	-16.83	35.58	46.00	-10.42
390.84	Peak	47.89	-13.10	34.79	46.00	-11.21
726.46	Peak	40.64	-7.40	33.24	46.00	-12.76
962.17	Peak	38.40	-3.77	34.63	54.00	-19.37

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Report Number	:E2/2019/90023	Test Date	:2019-11-14
Operation Mode	:802.11ac80 / Band 2	Temp./Humi.	:23.1/64
Test Channel	:5290 MHz	Antenna Pol.	:VERTICAL
Test Mode	:TX CH HIGH	Engineer	:Kailin
EUT Pol	:E2 Plan		



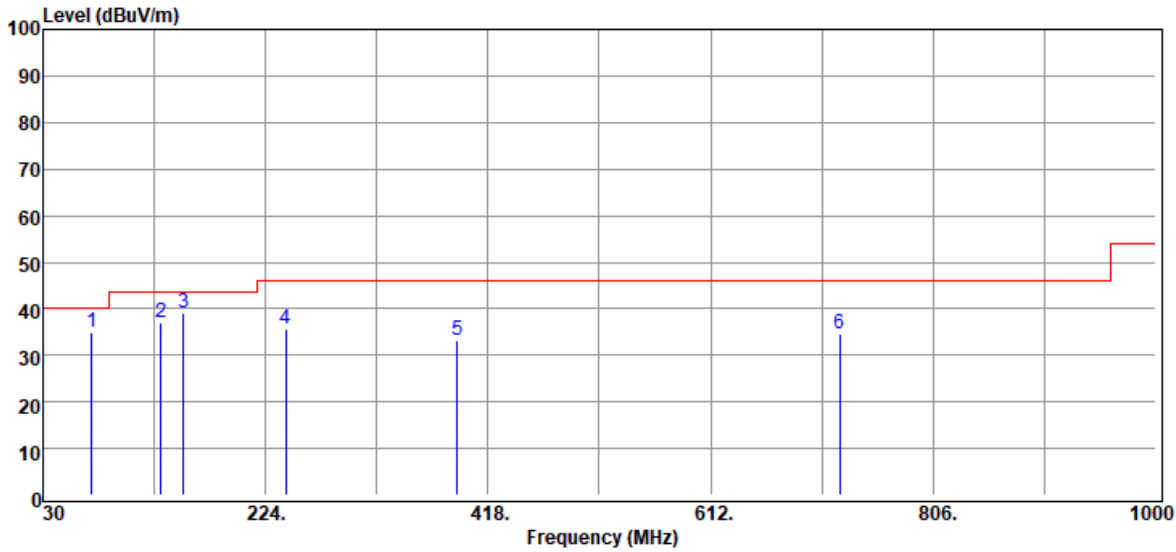
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
34.85	Peak	53.98	-17.96	36.02	40.00	-3.98
132.82	Peak	50.74	-17.75	32.99	43.50	-10.51
242.43	Peak	47.66	-17.11	30.55	46.00	-15.45
764.29	Peak	38.69	-6.75	31.94	46.00	-14.06
936.95	Peak	38.65	-4.39	34.26	46.00	-11.74
980.60	Peak	38.07	-3.27	34.80	54.00	-19.20

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Report Number	:E2/2019/90023	Test Date	:2019-11-14
Operation Mode	:802.11ac80 / Band 2	Temp./Humi.	:23.1/64
Test Channel	:5290 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:TX CH HIGH	Engineer	:Kailin
EUT Pol	:E2 Plan		



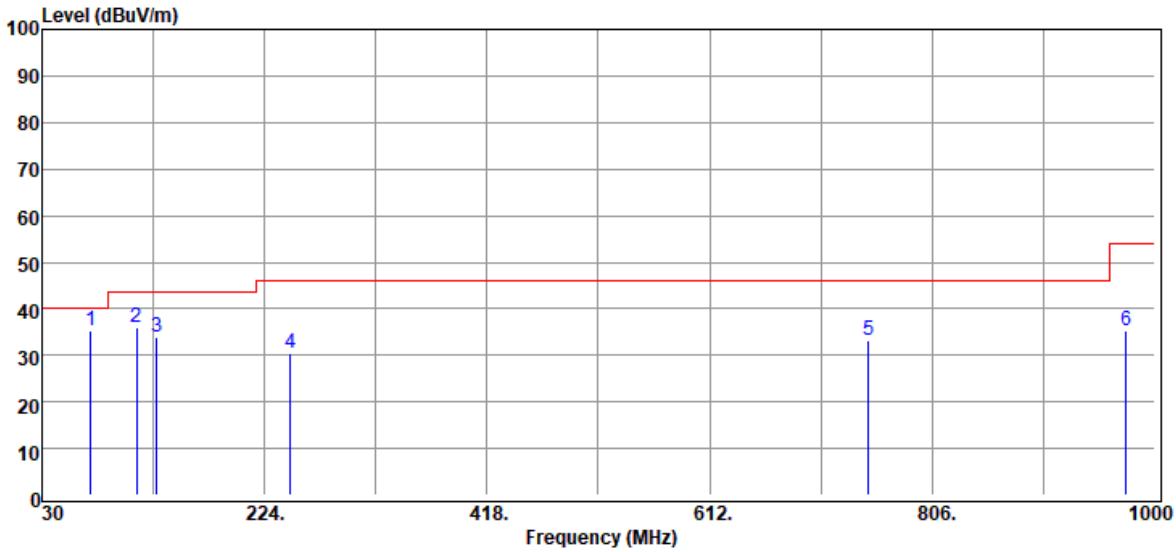
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
72.68	Peak	54.73	-19.91	34.82	40.00	-5.18
132.82	Peak	54.80	-17.75	37.05	43.50	-6.45
152.22	Peak	55.29	-16.24	39.05	43.50	-4.45
241.46	Peak	52.84	-17.14	35.70	46.00	-10.30
390.84	Peak	46.39	-13.10	33.29	46.00	-12.71
724.52	Peak	42.07	-7.49	34.58	46.00	-11.42

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Report Number	:E2/2019/90023	Test Date	:2019-11-14
Operation Mode	:802.11ac80 / Band 3	Temp./Humi.	:23.1/64
Test Channel	:5610 MHz	Antenna Pol.	:VERTICAL
Test Mode	:TX CH MID	Engineer	:Kailin
EUT Pol	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
72.68	Peak	55.04	-19.91	35.13	40.00	-4.87
112.45	Peak	55.99	-20.03	35.96	43.50	-7.54
129.91	Peak	52.09	-18.11	33.98	43.50	-9.52
246.31	Peak	47.56	-16.97	30.59	46.00	-15.41
750.71	Peak	40.12	-6.78	33.34	46.00	-12.66
974.78	Peak	38.45	-3.18	35.27	54.00	-18.73

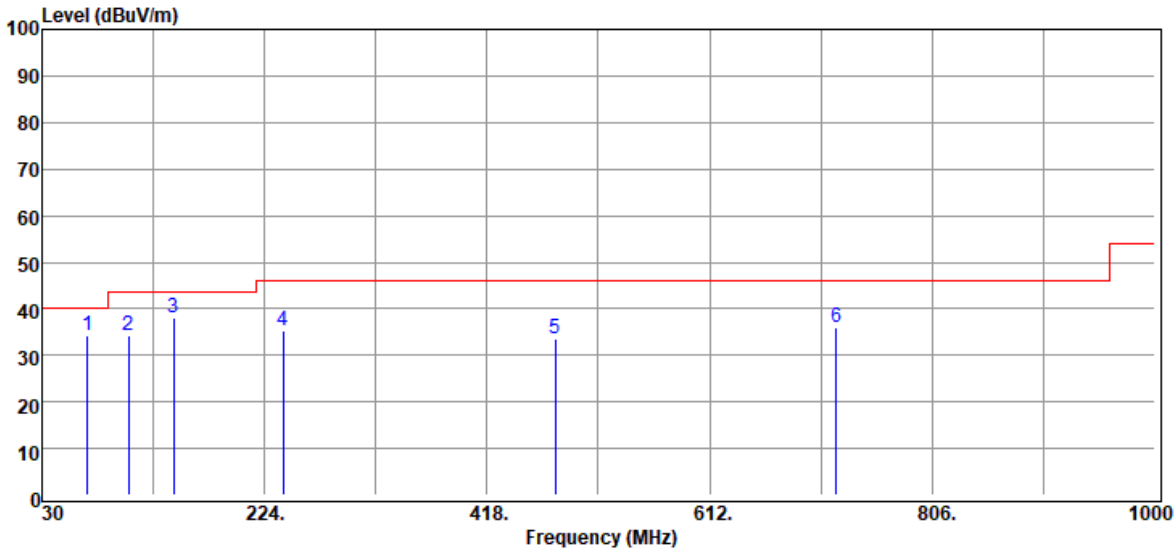
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Report Number :E2/2019/90023
Operation Mode :802.11ac80 / Band 3
Test Channel :5610 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-11-14
Temp./Humi. :23.1/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



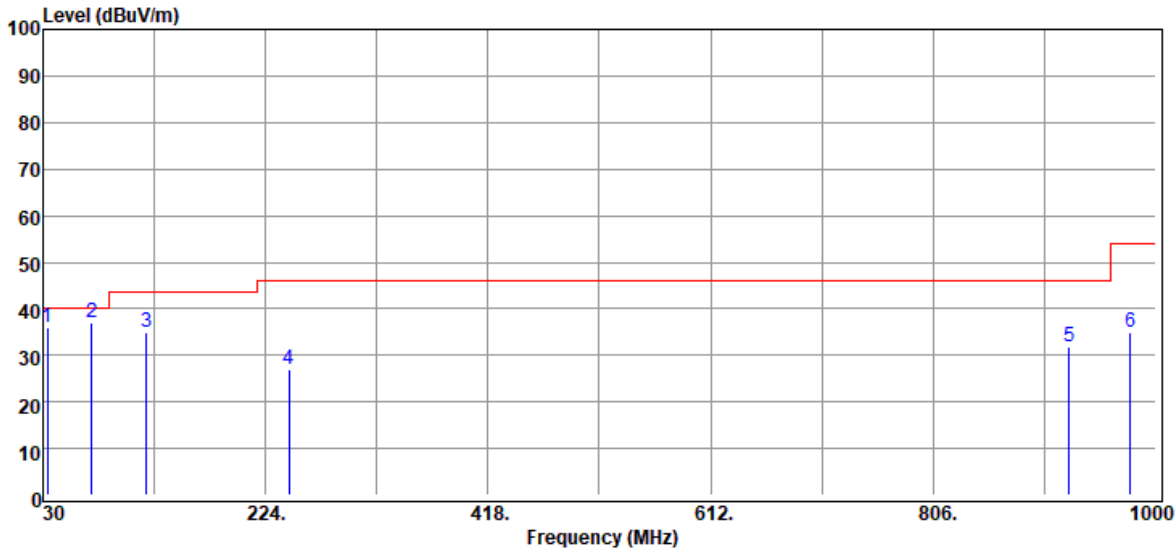
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
69.77	Peak	53.50	-19.24	34.26	40.00	-5.74
105.66	Peak	54.95	-20.80	34.15	43.50	-9.35
144.46	Peak	54.43	-16.52	37.91	43.50	-5.59
240.49	Peak	52.47	-17.17	35.30	46.00	-10.70
477.17	Peak	44.87	-11.20	33.67	46.00	-12.33
722.58	Peak	43.62	-7.60	36.02	46.00	-9.98

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Report Number	:E2/2019/90023	Test Date	:2019-11-14
Operation Mode	:802.11ac80 / Band 4	Temp./Humi.	:23.1/64
Test Channel	:5775 MHz	Antenna Pol.	:VERTICAL
Test Mode	:TX CH LOW	Engineer	:Kailin
EUT Pol	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
33.88	Peak	53.93	-18.07	35.86	40.00	-4.14
72.68	Peak	56.76	-19.91	36.85	40.00	-3.15
120.21	Peak	54.18	-19.24	34.94	43.50	-8.56
244.37	Peak	44.15	-17.04	27.11	46.00	-18.89
924.34	Peak	36.03	-4.26	31.77	46.00	-14.23
977.69	Peak	38.03	-3.22	34.81	54.00	-19.19

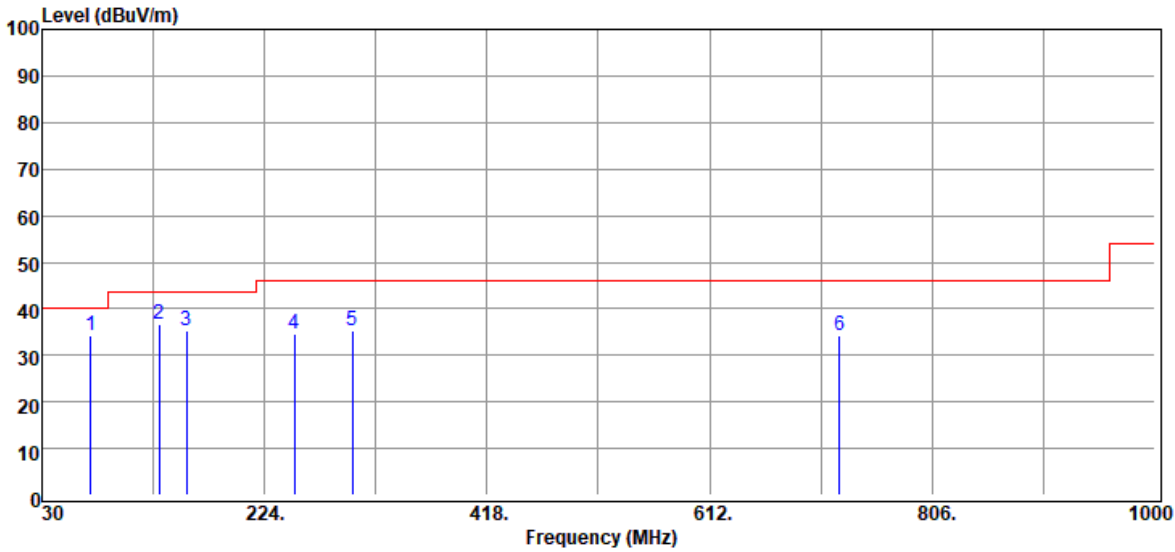
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Report Number :E2/2019/90023
Operation Mode :802.11ac80 / Band 4
Test Channel :5775 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2019-11-14
Temp./Humi. :23.1/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
72.68	Peak	54.16	-19.91	34.25	40.00	-5.75
131.85	Peak	54.55	-17.87	36.68	43.50	-6.82
156.10	Peak	51.74	-16.57	35.17	43.50	-8.33
250.19	Peak	51.45	-16.83	34.62	46.00	-11.38
300.63	Peak	50.67	-15.36	35.31	46.00	-10.69
725.49	Peak	41.69	-7.45	34.24	46.00	-11.76

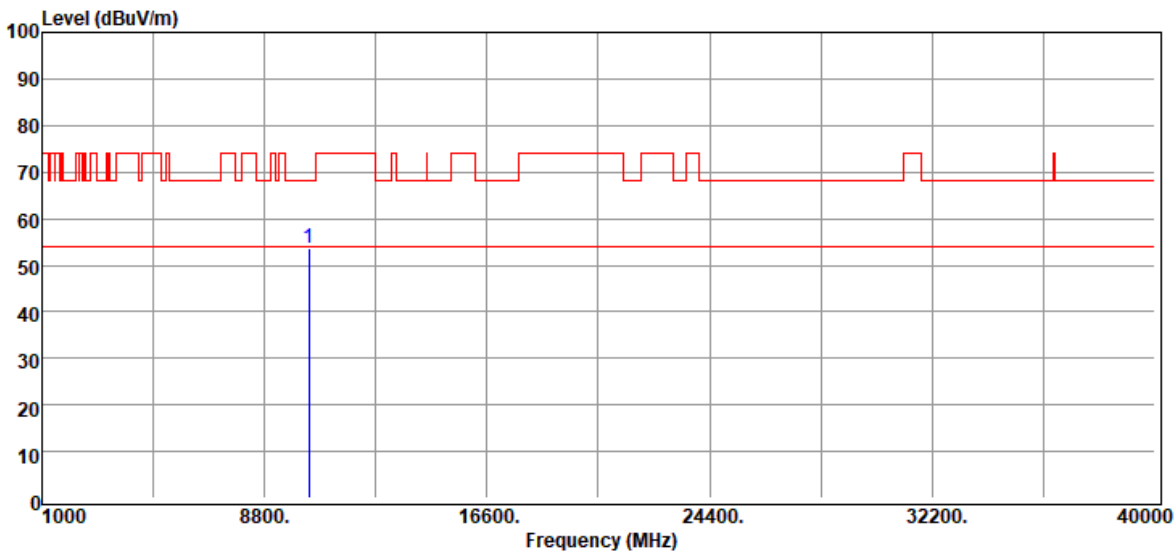
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11.7.2 Above 1GHz Worst-Case Data:

Report Number	:E2/2019/90023	Test Date	:2019-11-13
Operation Mode	:802.11a / Band 1	Temp./Humi.	:24.5/55
Test Channel	:5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:TX CH LOW	Engineer	:Kailin
EUT Pol	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	41.10	12.59	53.69	68.20	-14.51

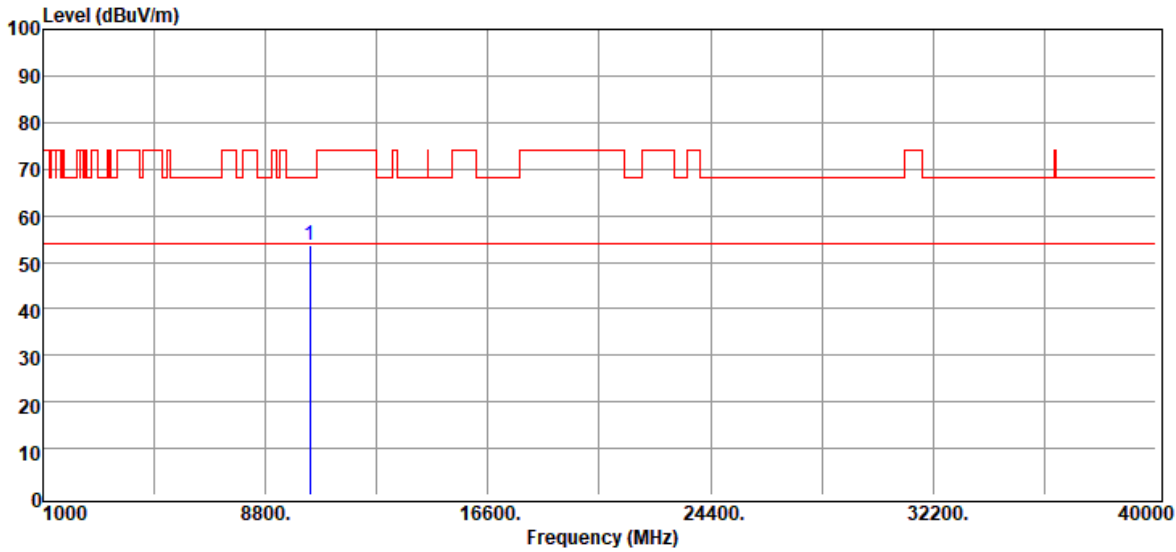
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 1
Test Channel :5180 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.5/55
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	41.00	12.59	53.59	68.20	-14.61

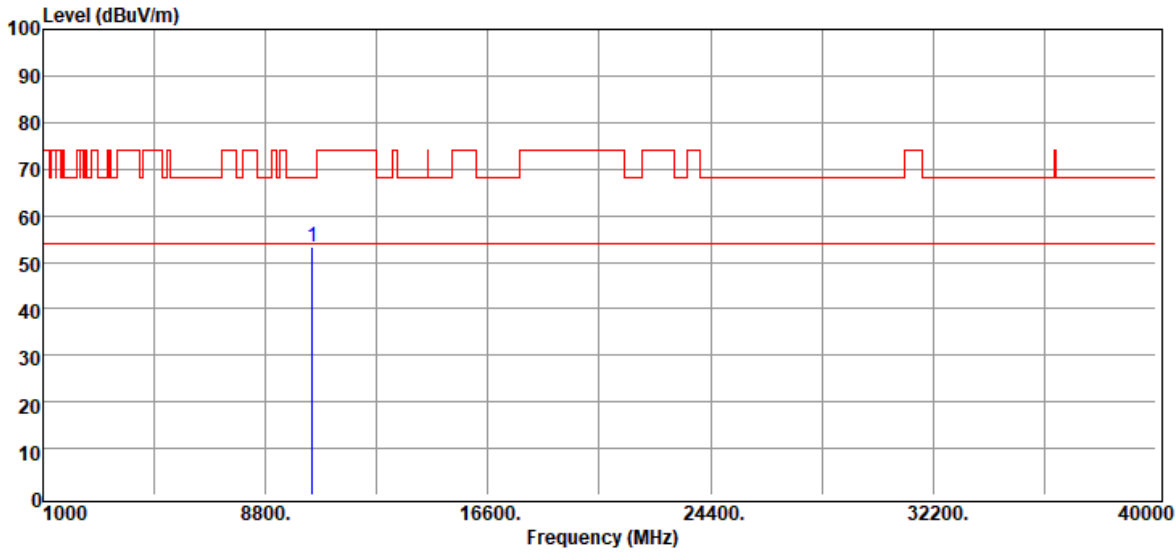
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 1
Test Channel :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-10-25
Temp./Humi. :22.4/63
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	40.41	12.71	53.12	68.20	-15.08

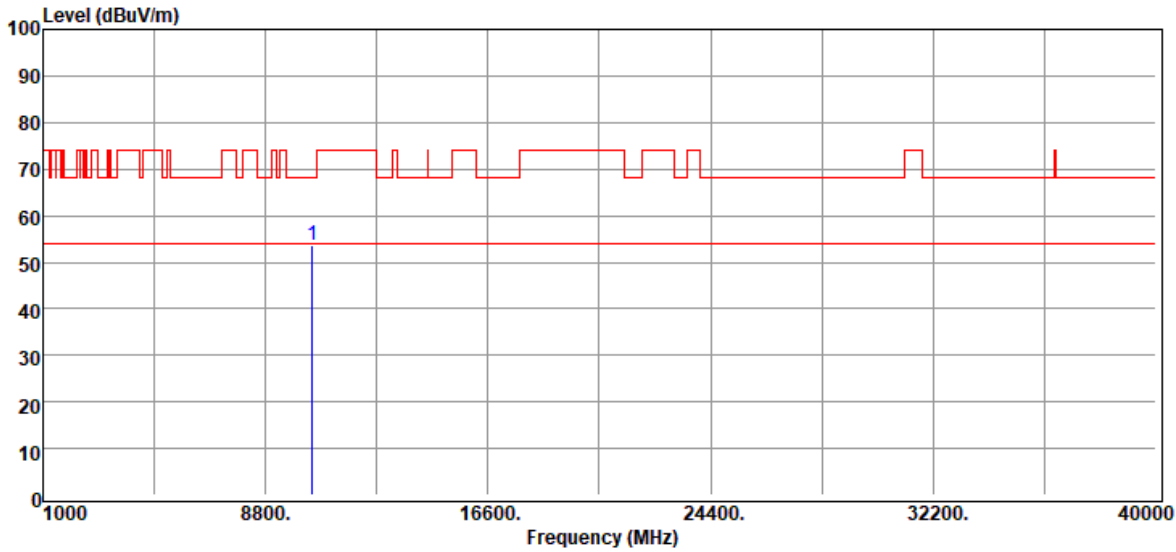
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 1
Test Channel :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-10-25
Temp./Humi. :22.4/63
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	41.02	12.71	53.73	68.20	-14.47

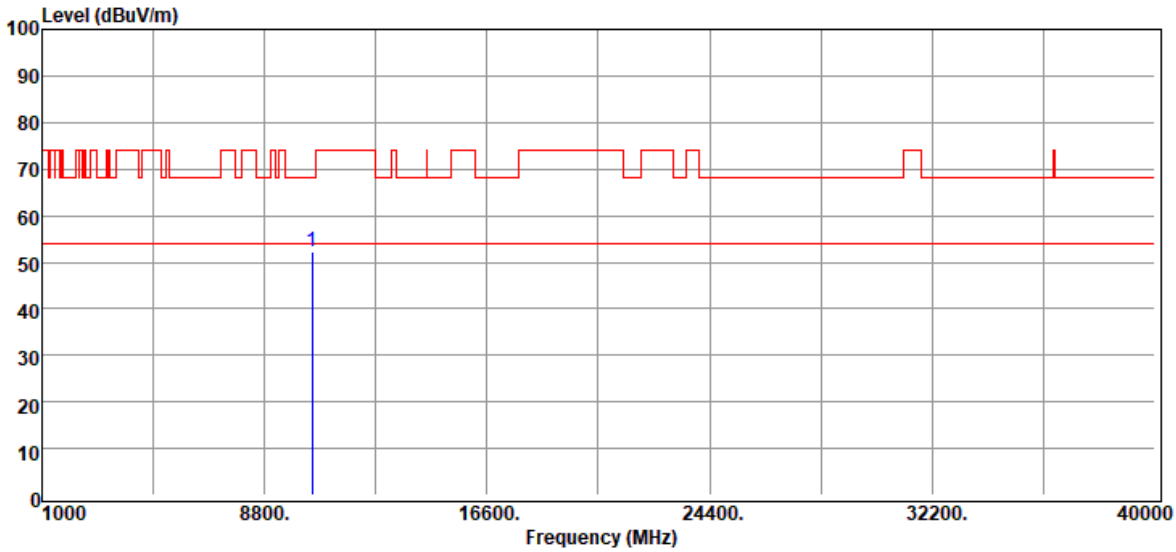
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 1
Test Channel :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.5/55
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	39.58	12.78	52.36	68.20	-15.84

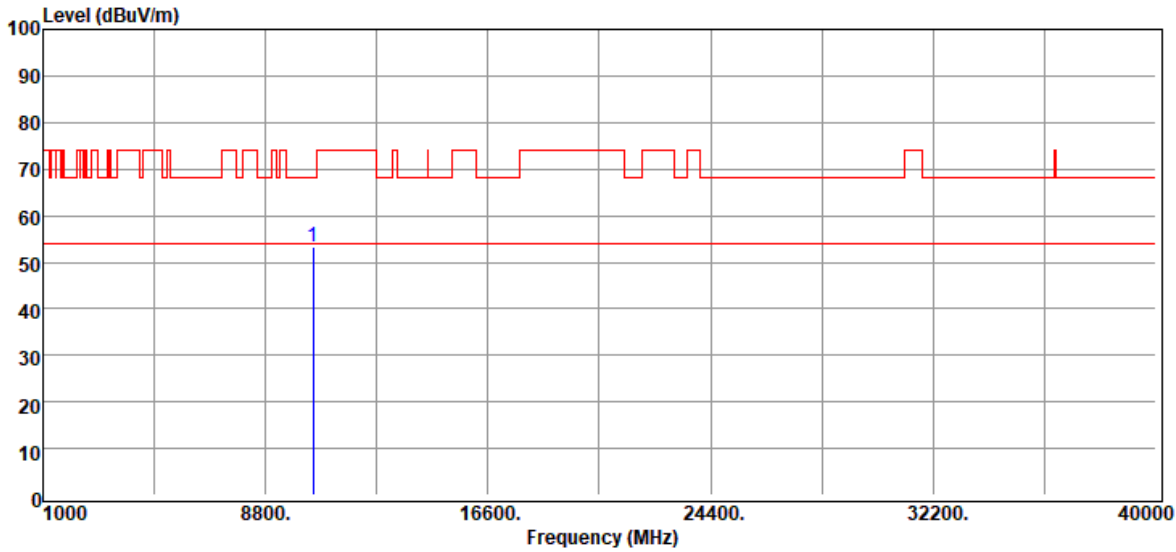
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 1
Test Channel :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.5/55
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	40.47	12.78	53.25	68.20	-14.95

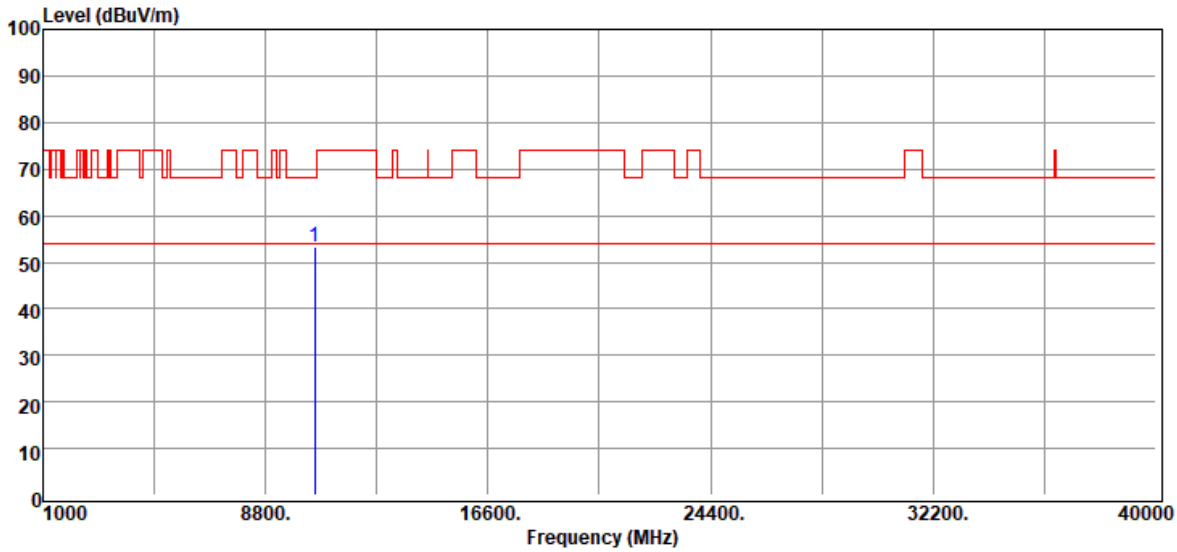
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 2
Test Channel :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.5/55
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	40.65	12.74	53.39	68.20	-14.81

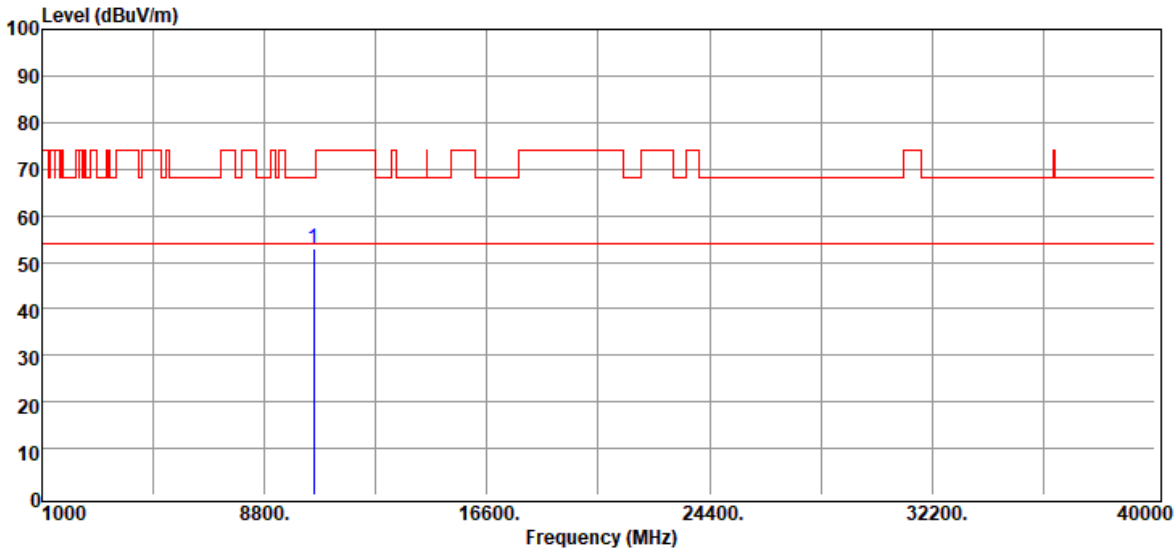
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 2
Test Channel :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.5/55
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	40.05	12.74	52.79	68.20	-15.41

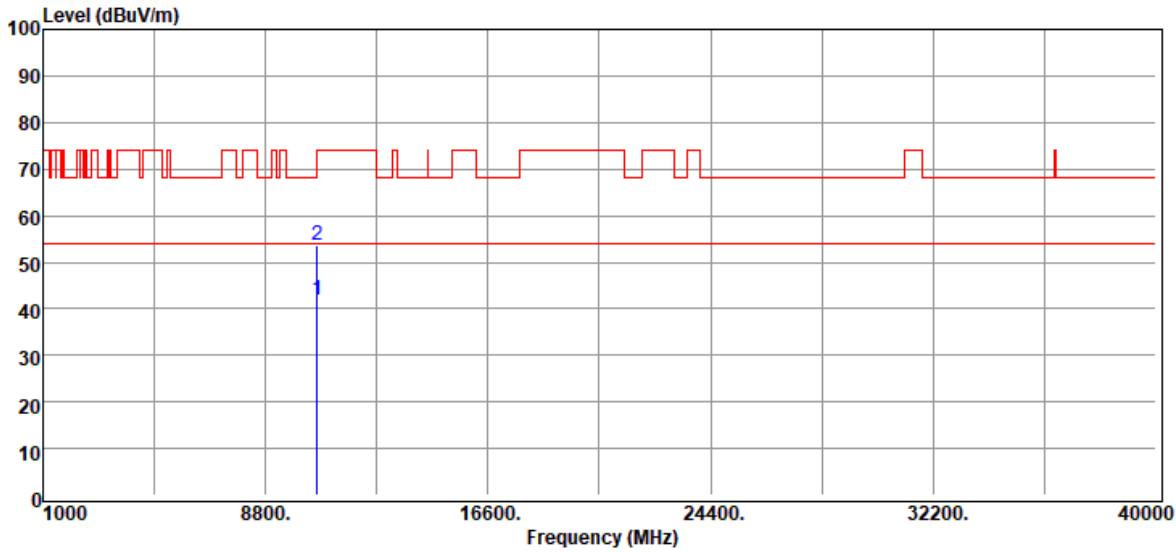
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 2
Test Channel :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-10-25
Temp./Humi. :22.4/63
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	29.42	12.48	41.90	54.00	-12.10
10600.00	Peak	41.02	12.48	53.50	74.00	-20.50

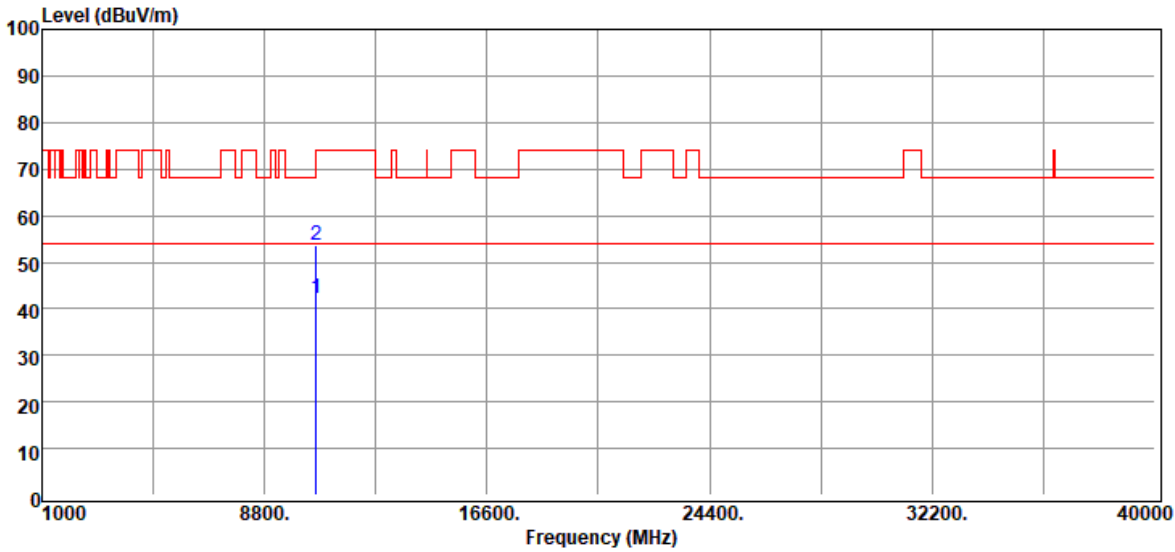
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Report Number :E2/2019/90023
 Operation Mode :802.11a / Band 2
 Test Channel :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Date :2019-10-25
 Temp./Humi. :22.4/63
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	Average	29.62	12.48	42.10	54.00	-11.90
10600.00	Peak	41.05	12.48	53.53	74.00	-20.47

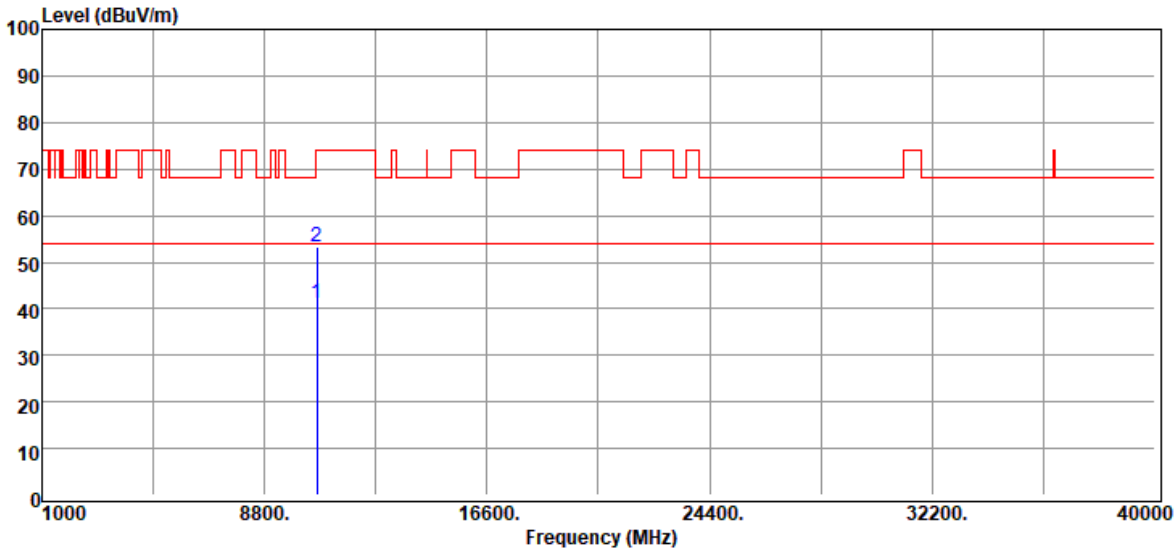
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 2
Test Channel :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.4/56
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	28.98	12.21	41.19	54.00	-12.81
10640.00	Peak	41.10	12.21	53.31	74.00	-20.69

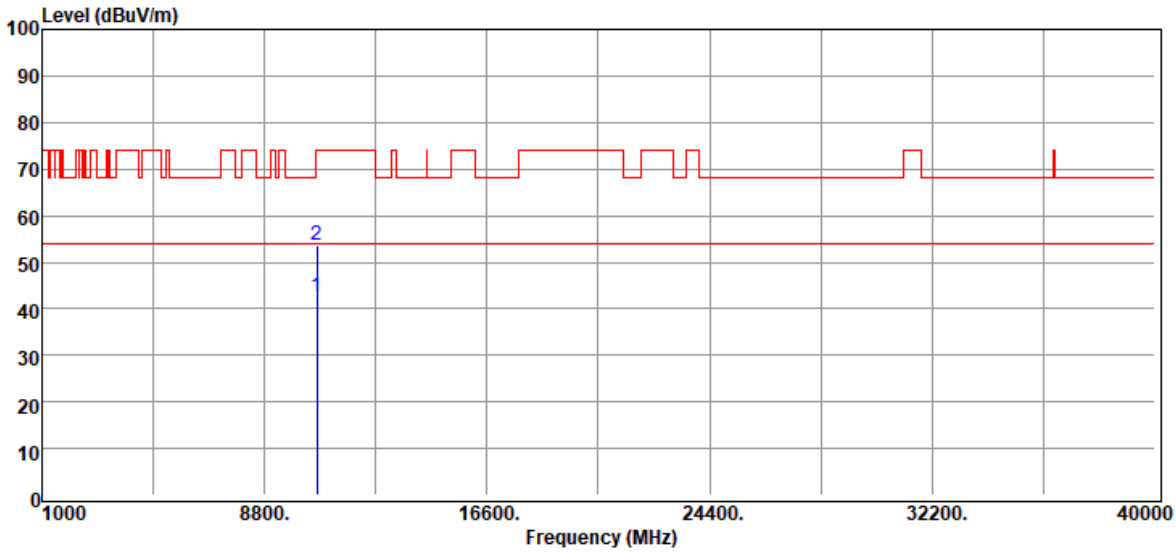
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 2
Test Channel :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.4/56
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	Average	30.23	12.21	42.44	54.00	-11.56
10640.00	Peak	41.41	12.21	53.62	74.00	-20.38

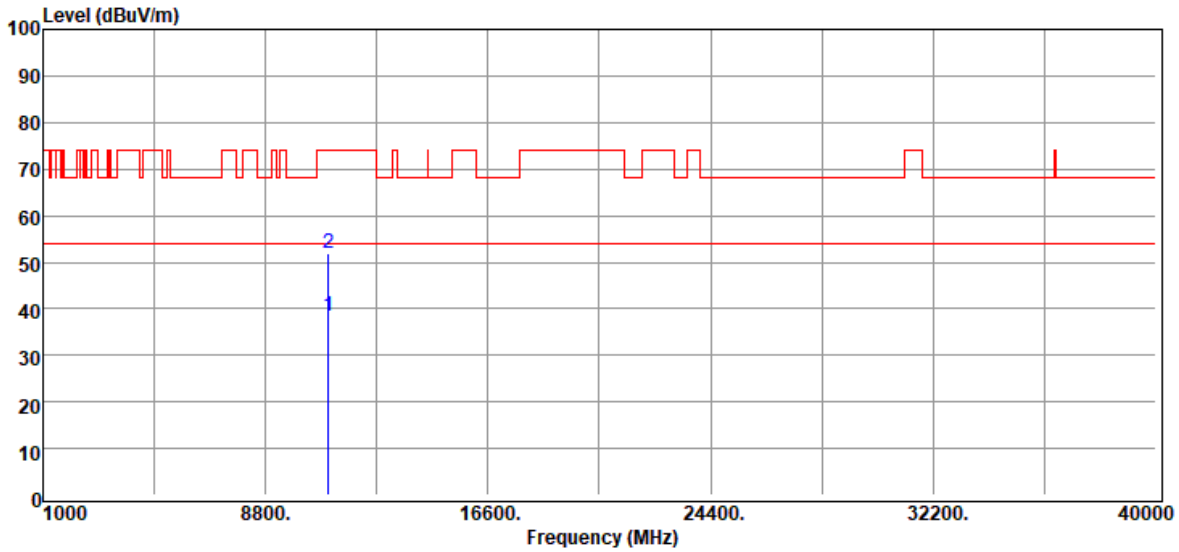
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Report Number :E2/2019/90023
 Operation Mode :802.11a / Band 3
 Test Channel :5500 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-11-13
 Temp./Humi. :24.4/55
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	27.48	11.06	38.54	54.00	-15.46
11000.00	Peak	40.94	11.06	52.00	74.00	-22.00

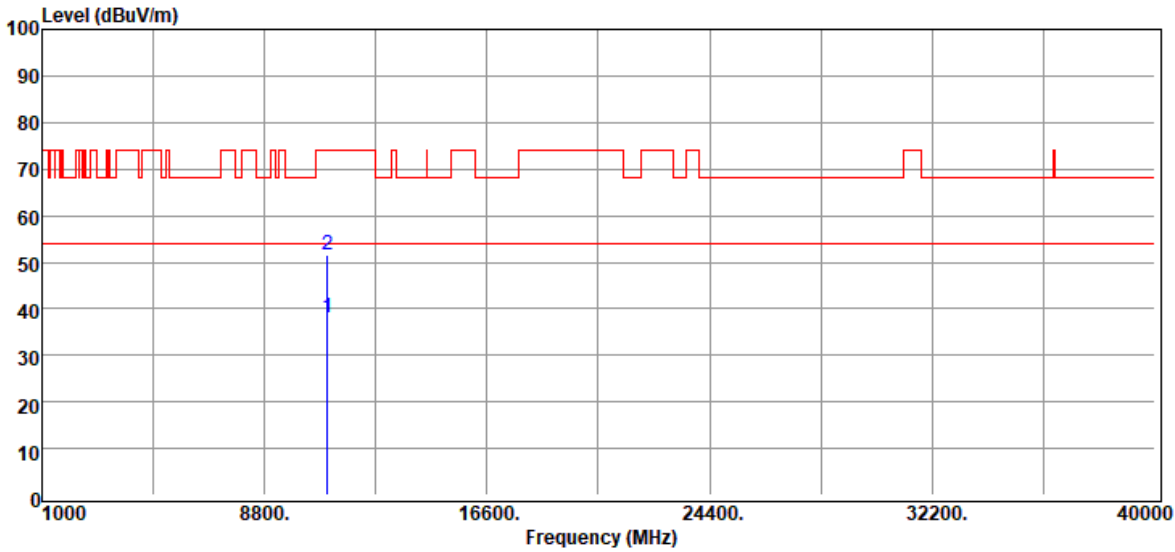
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 3
Test Channel :5500 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.4/55
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	Average	26.86	11.06	37.92	54.00	-16.08
11000.00	Peak	40.56	11.06	51.62	74.00	-22.38

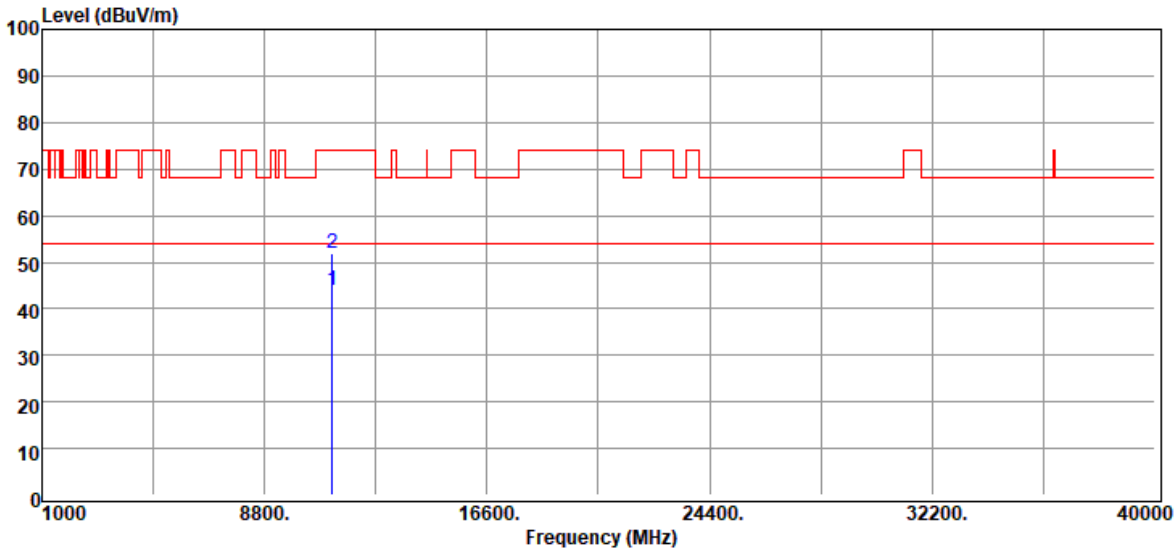
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 3
Test Channel :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-10-25
Temp./Humi. :22.4/63
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	31.85	12.21	44.06	54.00	-9.94
11160.00	Peak	39.81	12.21	52.02	74.00	-21.98

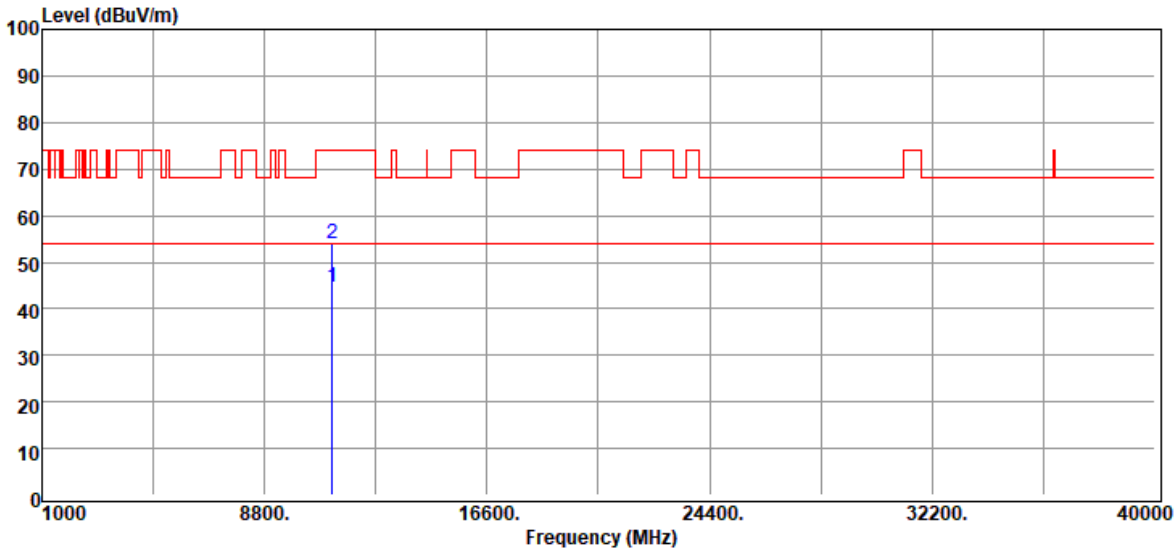
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 3
Test Channel :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-10-25
Temp./Humi. :22.4/63
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	32.31	12.21	44.52	54.00	-9.48
11160.00	Peak	41.69	12.21	53.90	74.00	-20.10

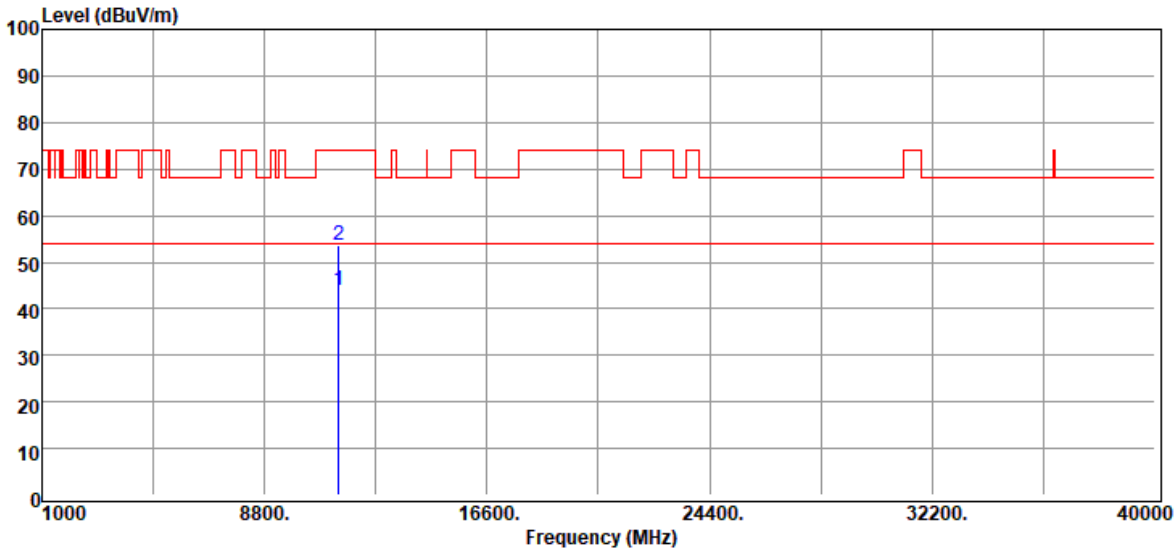
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 3
Test Channel :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.4/55
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	31.03	13.08	44.11	54.00	-9.89
11400.00	Peak	40.70	13.08	53.78	74.00	-20.22

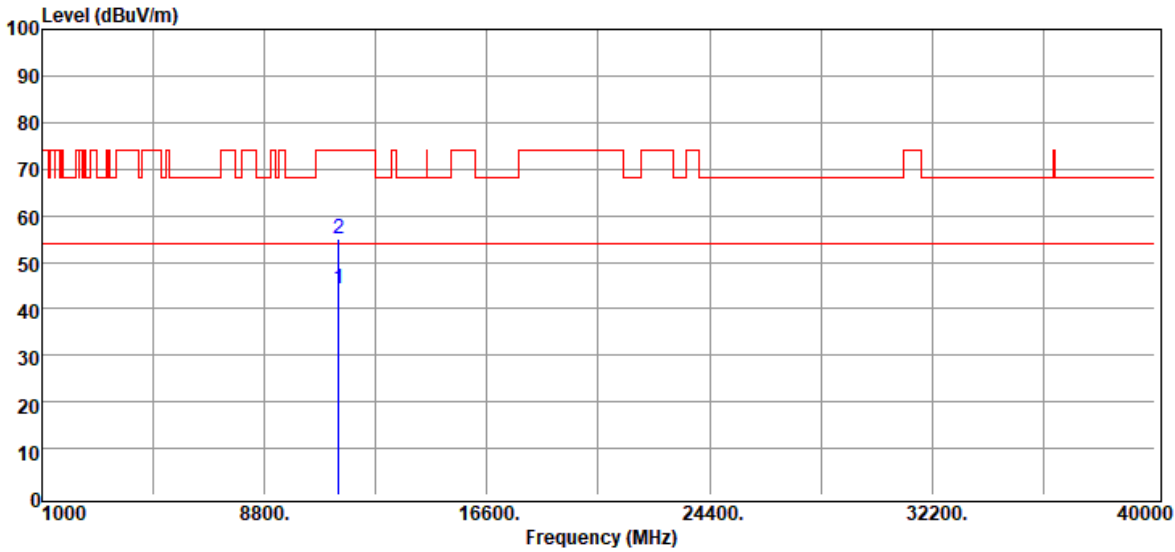
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 3
Test Channel :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.4/55
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	Average	31.05	13.08	44.13	54.00	-9.87
11400.00	Peak	41.87	13.08	54.95	74.00	-19.05

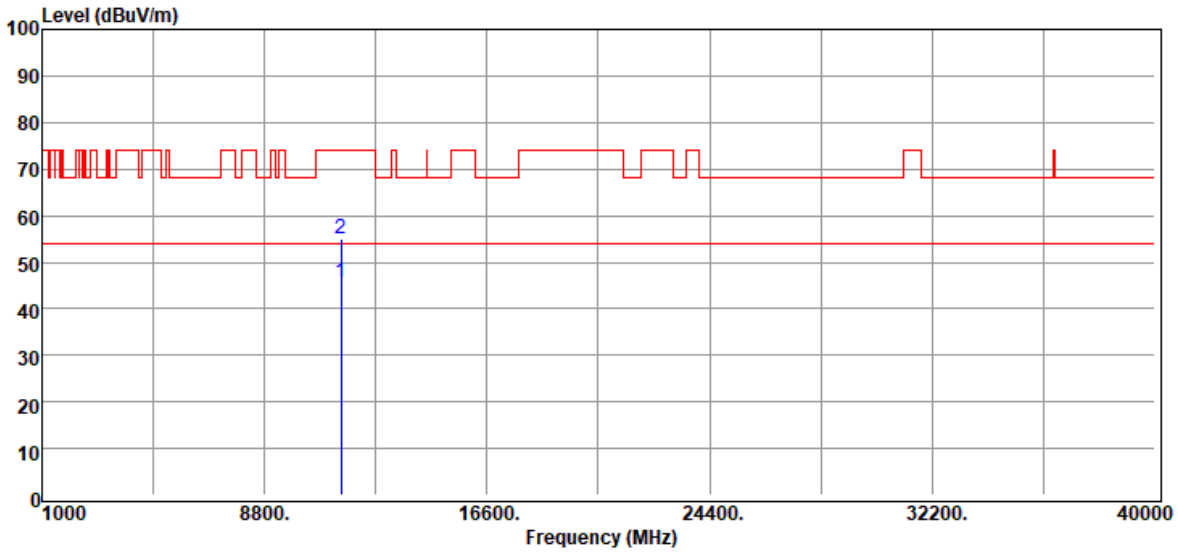
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 4
Test Channel :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.4/56
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	32.11	13.42	45.53	54.00	-8.47
11490.00	Peak	41.63	13.42	55.05	74.00	-18.95

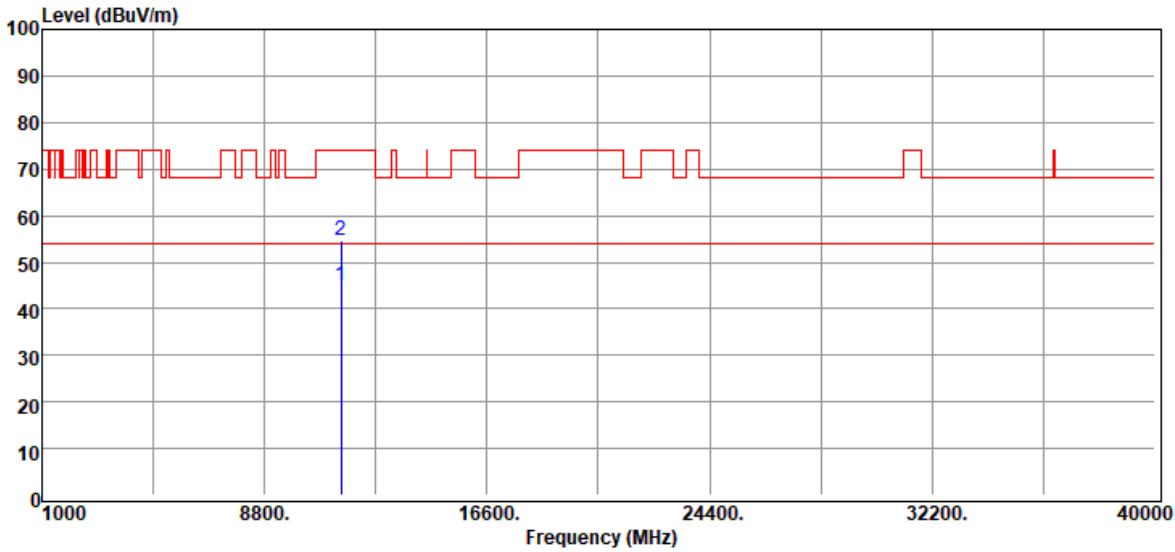
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Report Number :E2/2019/90023
 Operation Mode :802.11a / Band 4
 Test Channel :5745 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Date :2019-11-13
 Temp./Humi. :24.4/56
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	Average	31.44	13.42	44.86	54.00	-9.14
11490.00	Peak	41.29	13.42	54.71	74.00	-19.29

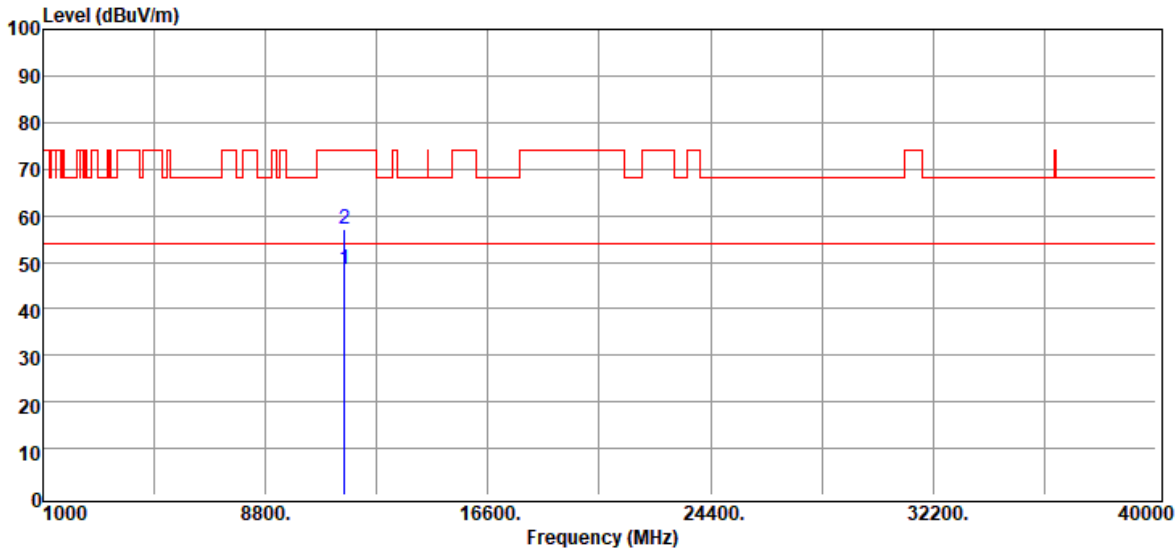
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 4
Test Channel :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-10-25
Temp./Humi. :22.4/63
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	35.44	13.11	48.55	54.00	-5.45
11570.00	Peak	43.91	13.11	57.02	74.00	-16.98

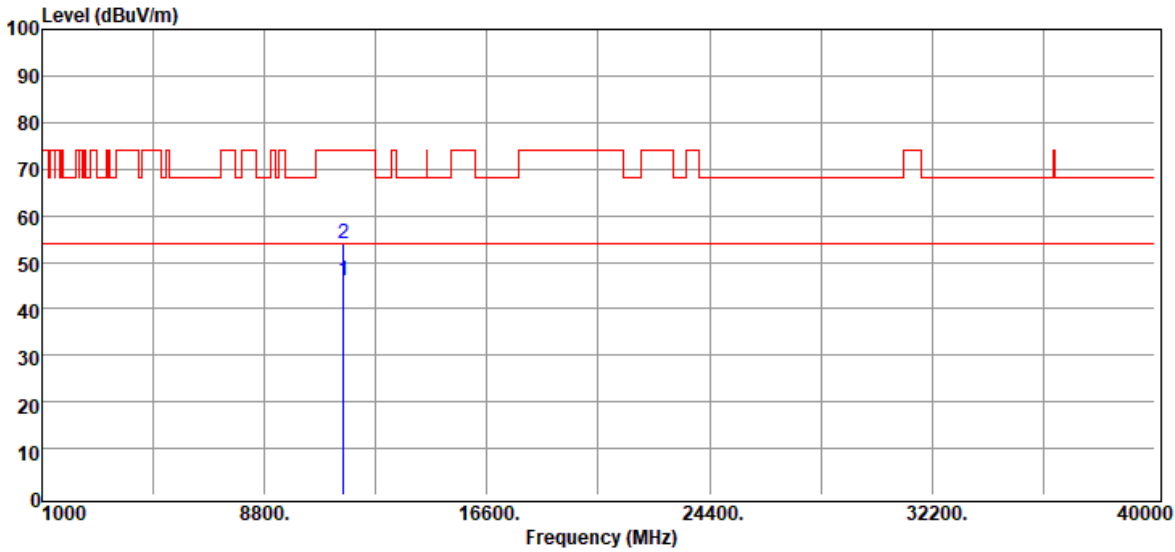
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 4
Test Channel :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-10-25
Temp./Humi. :22.4/63
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	Average	32.78	13.11	45.89	54.00	-8.11
11570.00	Peak	40.98	13.11	54.09	74.00	-19.91

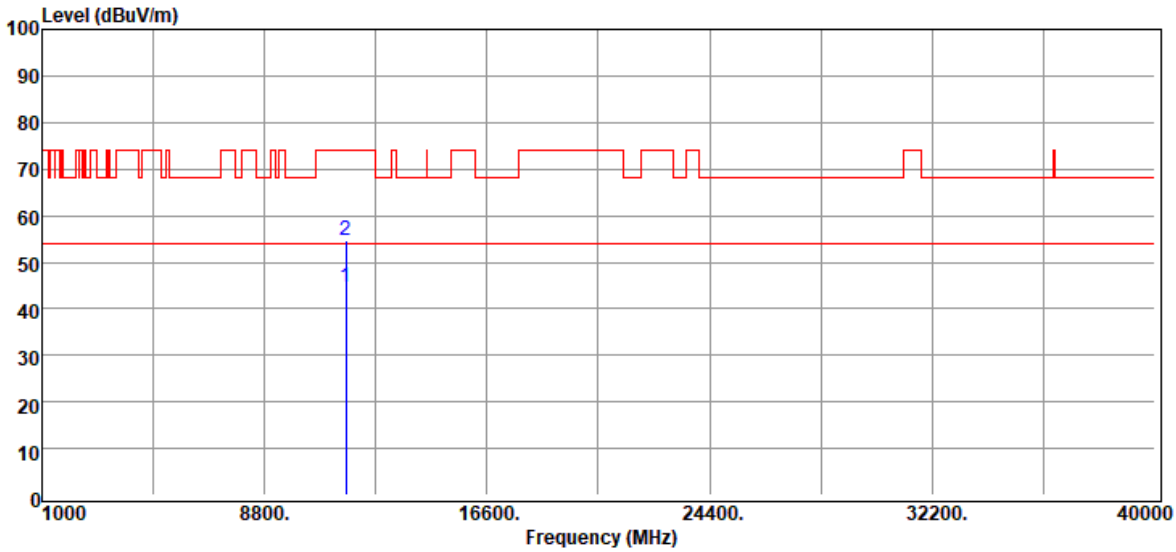
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 4
Test Channel :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.4/56
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	31.65	13.05	44.70	54.00	-9.30
11650.00	Peak	41.53	13.05	54.58	74.00	-19.42

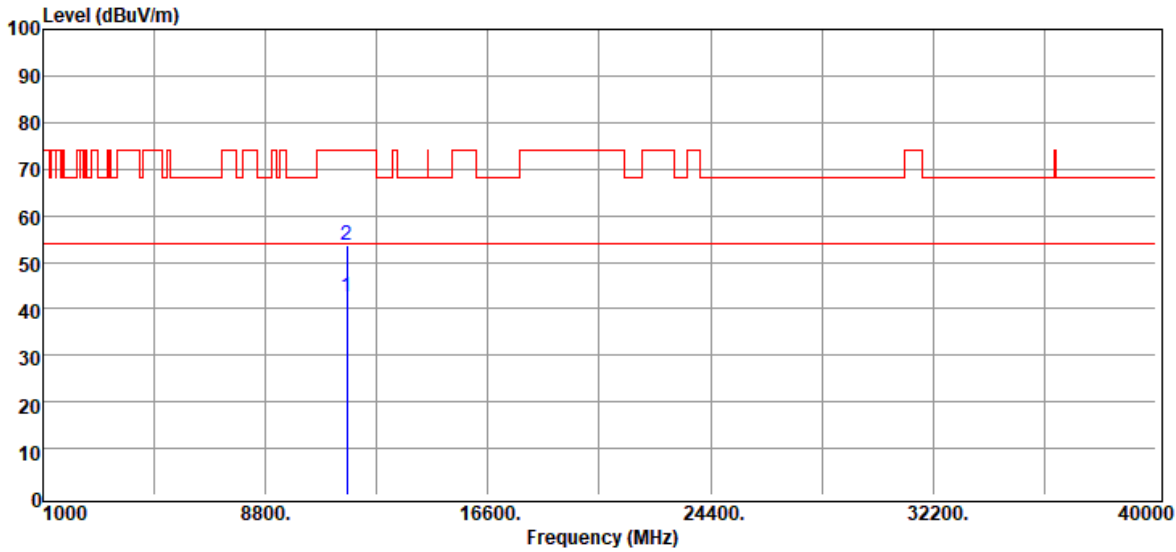
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Report Number :E2/2019/90023
Operation Mode :802.11a / Band 4
Test Channel :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.4/56
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	Average	29.38	13.05	42.43	54.00	-11.57
11650.00	Peak	40.70	13.05	53.75	74.00	-20.25

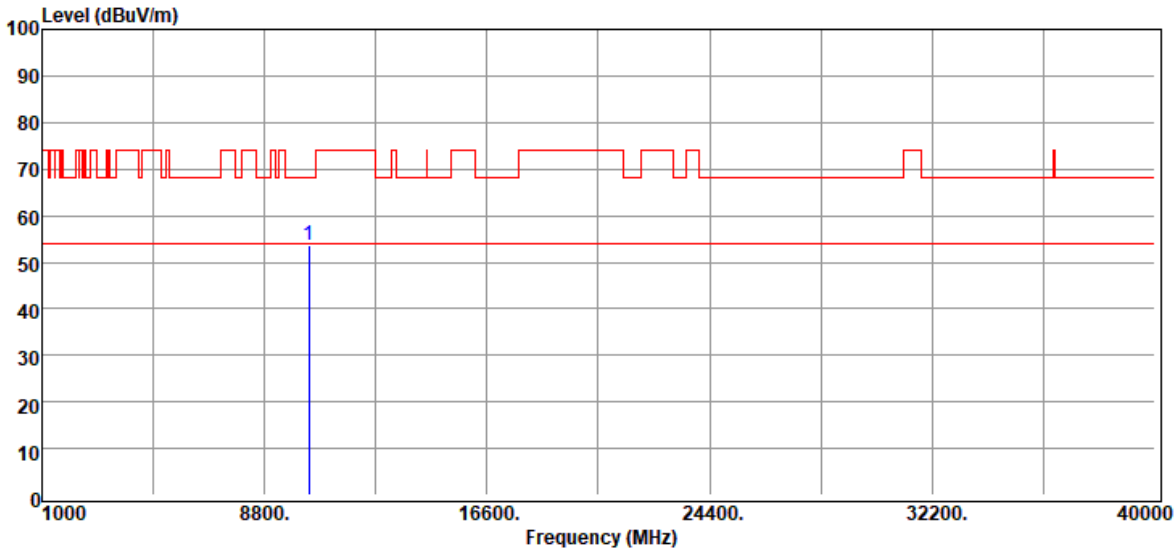
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Report Number :E2/2019/90023
Operation Mode :802.11n20 / Band 1
Test Channel :5180 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.6/55
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	40.92	12.59	53.51	68.20	-14.69

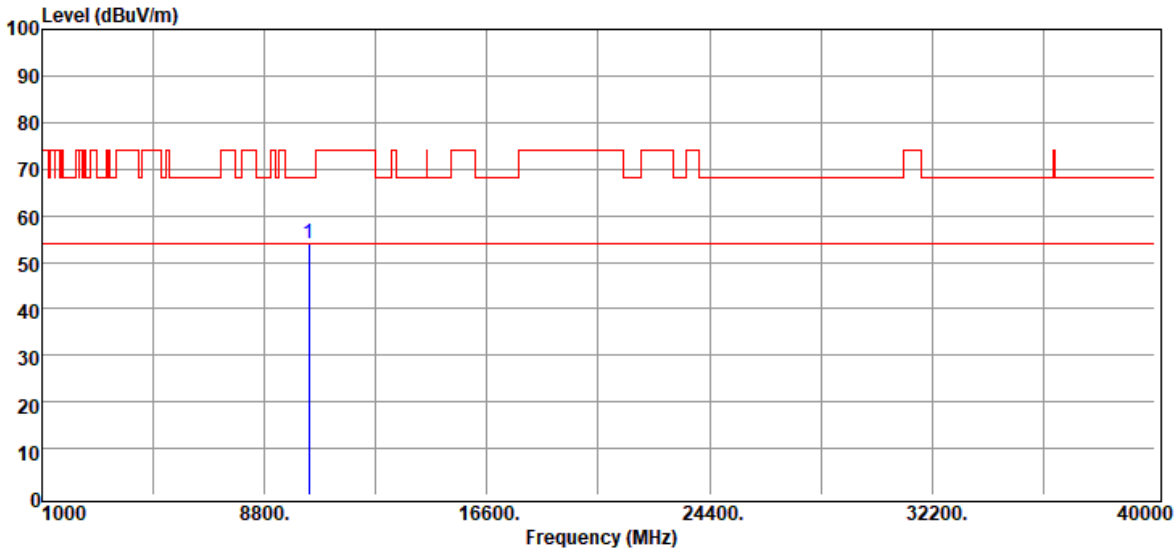
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Report Number :E2/2019/90023
Operation Mode :802.11n20 / Band 1
Test Channel :5180 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.6/55
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	41.48	12.59	54.07	68.20	-14.13

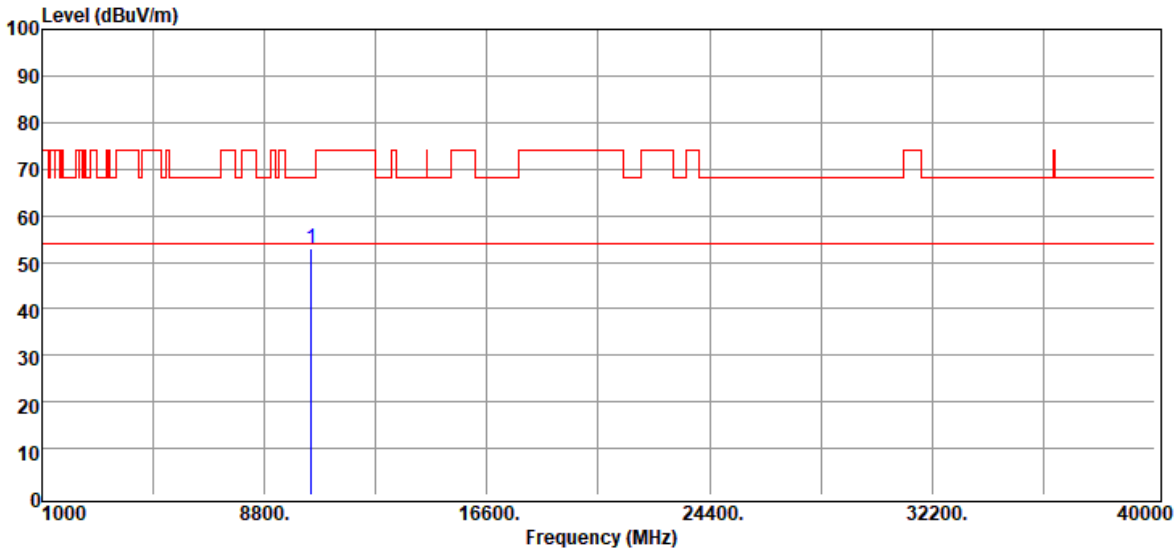
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Report Number :E2/2019/90023
Operation Mode :802.11n20 / Band 1
Test Channel :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.6/55
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	40.39	12.71	53.10	68.20	-15.10

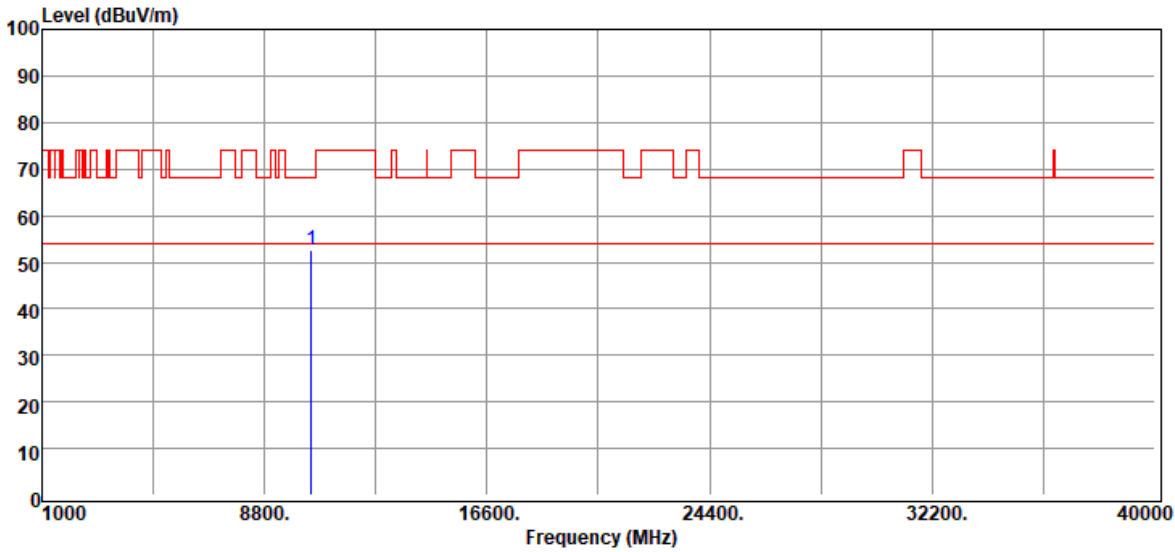
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Report Number :E2/2019/90023
Operation Mode :802.11n20 / Band 1
Test Channel :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Date :2019-11-13
Temp./Humi. :24.6/55
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	39.74	12.71	52.45	68.20	-15.75

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