

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E AND INDUSTRY CANADA RSS 247 REQUIREMENT

OF

FCC Applicant: Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, China

IC Applicant: Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, China (Peoples Republic Of)

Product Name: Notebook Computer

Brand Name: HUAWEI, HONOR

FCC Model No.: HBL-W19, HBL-W09, HBL-W29, HBL-WXXXXX (X Can be 0-9, A-Z, a-z, blank or symbol "-")

IC Model No.: HBL-W19, HBL-W09, HBL-W29

Model Difference: For the marketing purpose, only different model designations on the marking plate for different markets. No RF concern.

Report Number: T190226W02-RP4

FCC ID: QISHBL-WX9

IC: 6369A-HBLWX9

FCC Rule Part: §15.407, Cat: NII

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Issued by Compliance Certification Services Inc. Wugu Lab.
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The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

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

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Henry Chiang

Tested By:

Henry Chiang / Engineer

Kevin Tsai

Approved By:

Kevin Tsai / Deputy Manager



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190226W02-RP4	Rev.00	Initial creation of document	All	Apr. 03, 2019	Elle Chang
T190226W02-RP4	Rev.01	Updated IC Model number and measurement data	5,7,32,64,65,72,77,78	Apr. 10, 2019	Elle Chang

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Notebook Computer	
Brand Name:	HUAWEI, HONOR	
FCC Model No.:	HBL-W19, HBL-W09, HBL-W29, HBL-WXXXXXX (X Can be 0-9, A-Z, a-z, blank or symbol "-")	
IC Model No.:	HBL-W19, HBL-W09, HBL-W29	
Model Difference:	For the marketing purpose, only different model designations on the marking plate for different markets. No RF concern.	
Product SW/HW version:	1809 (OS Build 17763.253) / C3A	
Radio SW/HW version:	Wi-Fi Component: 20 / Wi-Fi Component: 9560	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	15.28Vdc from Rechargeable Li-ion Battery or 5Vdc / 9Vdc / 12Vdc / 15Vdc / 20Vdc from AC/DC Adapter.	
	Battery:	Model No.: HB6081V1ECW-41, Supplier: HUAWEI
	Adapter:	Model No.: HW-200325YYY (Y=0-9,A-Z or blank), Supplier: HUAWEI

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FCC WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Avg. Power (dBm)	Modulation Technology
11a_20	5150~5250	4	14.99	OFDM
	5250~5350	4	14.98	
	5470~5725	12	13.97	
	5725~5850	5	14.00	
11n_HT / ac_VHT 20M	5150~5250	4	HT: 14.98	OFDM
	5250~5350	4	HT: 14.98	
	5470~5725	12	HT: 13.95	
	5725~5850	5	HT: 13.97	
11n_HT / ac_VHT 40M	5150~5250	2	HT: 14.96	OFDM
	5250~5350	2	HT: 14.95	
	5470~5725	6	HT: 13.99	
	5725~5850	2	HT: 13.98	
11ac VHT80M	5150~5250	1	10.98	OFDM
	5250~5350	1	10.94	
	5470~5725	3	12.95	
	5725~5850	1	12.99	
11ac VHT160M	5150~5350	1	10.99	OFDM
	5470~5850	1	10.95	
Antenna Designation:		PIFA Antenna, Main Antenna: 5150~5250MHz Peak Gain: 1dBi 5250~5350MHz Peak Gain: 1dBi 5470~5725MHz Peak Gain: 0.99dBi 5725~5850MHz Peak Gain: 0.99dBi Aux Antenna: 5150~5250MHz Peak Gain: 0.99dBi 5250~5350MHz Peak Gain: 0.99dBi 5470~5725MHz Peak Gain: 1dBi 5725~5850MHz Peak Gain: 0.99dBi		

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IC WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Avg. or EIRP	Rated Power(dBm)	Modulation Technology
11a	5180~5240	4	EIRP	18.87	OFDM
	5260~5320	4	Avg.	14.98	
	5500~5580	5	Avg.	13.97	
	5660~5700	3	Avg.	12.96	
	5745~5825	5	Avg.	14.00	
11n_HT / ac_VHT 20M	5180~5240	4	EIRP	HT: 18.93	OFDM
	5260~5320	4	Avg.	HT: 14.98	
	5500~5580	5	Avg.	HT: 13.95	
	5660~5720	4	Avg.	HT: 12.98	
	5745~5825	5	Avg.	HT: 13.97	
11n_HT / ac_VHT 40M	5190~5230	2	EIRP	HT: 18.90	OFDM
	5270~5310	2	Avg.	HT: 14.95	
	5510~5550	2	Avg.	HT: 13.95	
	5670~5710	2	Avg.	HT: 13.99	
	5755~5795	2	Avg.	HT: 13.98	
11ac VHT80M	5210~5210	1	EIRP	14.93	OFDM
	5290~5290	1	Avg.	10.94	
	5530~5530	1	Avg.	10.95	
	5690~5690	1	Avg.	11.87	
	5775~5775	1	Avg.	12.99	
11ac VHT160M	5150~5350	1	EIRP	14.91	OFDM
	5470~5850	1	Avg.	10.99	
Modulation type		64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only			
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 –144.4Mbps 802.11 ac_40MHz: 13.5 -300.0Mbps 802.11 ac_80MHz: 29.3 – 650Mbps			

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

KDB 789033 D02 v01r04 General UNII Test Procedures New Rules

KDB 644545 D03 v01 Guidance for IEEE 802.11ac

RSS-247 issue 2 Feb. 2017

RSS-Gen. issue 5 Apr. 2018

ANSI C63.10:2013

Note: All test items have been performed and record as per the above standards.

1.3 Test Facility

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,

Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

Canada Registration number: 2324G

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 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 according to §15.207. 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

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.

2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration



Fig.2-3 Conducted Emission (Antenna Port) Configuration



Fig. 2-2 Conducted Emission (AC Power Line) Configuration

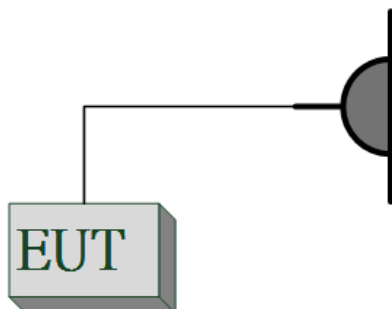


Table 2-1 Equipment Used in Tested System

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

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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-247 §6.2.1~ 4 (1) RSS-Gen §6.7	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 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

4 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
58	5290 MHz

Operated band in 5150 MHz ~5350 MHz:

1 channel is provided for 802.11ac_VHT160

CHANNEL	FREQUENCY
50	5250 MHz

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Operated band in 5470 MHz ~5725 MHz:

11 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

5 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac_VHT80

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	138	5690 MHz
122	5610 MHz		

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
155	5775 MHz

Operated band in 5470 MHz ~5850 MHz:

1 channel is provided for 802.11ac_VHT160

CHANNEL	FREQUENCY
114	5570 MHz

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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.
4. The given UE is pre-scanned among 802.11n and ac modes, and 802.11n yields the highest reading that generates the highest emission.
5. The given UE is pre-scanned among SISO Main, SISO Aux and MIMO modes, and SISO Aux mode yields the highest reading that generates the highest emission. Therefore, 802.11ac+SISO Aux as the mode of radiated test configuration is chosen to carry out the relevantly mandatory test items.

AC POWER LINE CONDUCTED EMISSION TEST:

Test Condition	AC Power line conducted emission for line and neutral
Worst Case	Operation in normal mode

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	44	OFDM	6	AUX
802.11a	5260~5320	52 to 64	60	OFDM	6	AUX
802.11a	5500~5700	100 to 140	116	OFDM	6	AUX
802.11a	5745~5825	149 to 165	157	OFDM	6	AUX
802.11acVHT160	5250	50	50	OFDM	MCS0	AUX
802.11acVHT160	5570	114	114	OFDM	MCS0	AUX
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	AUX
802.11n_HT20				OFDM	MCS8	AUX
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	AUX
802.11ac_VHT80	5210	42	42	OFDM	MCS0	AUX
802.11acVHT160	5250	50	50	OFDM	MCS0	AUX
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	AUX
802.11n_HT20				OFDM	MCS8	AUX
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	AUX
802.11ac_VHT80	5290	58	58	OFDM	MCS0	AUX

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	AUX
802.11n_HT20	5500~5720	100 to 144	100,116,140,144	OFDM	MCS8	AUX
802.11n_HT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS8	AUX
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	AUX
802.11acVHT160	5570	114	114	OFDM	MCS0	AUX
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	AUX
802.11n_HT20				OFDM	MCS8	AUX
802.11n_HT40				OFDM	MCS8	AUX
802.11ac_VHT80	5775	155	155	OFDM	MCS0	AUX

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 H position was reported.

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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	AUX
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	AUX
802.11n_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS8	AUX
802.11ac_VHT80	5210	42	42	OFDM	MCS0	AUX
802.11ac_VHT160	5250	50	50	OFDM	MCS0	AUX
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	AUX
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	AUX
802.11n_HT40 802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS8	AUX
802.11ac_VHT80	5290	58	58	OFDM	MCS0	AUX
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	AUX
802.11n_HT20 802.11ac_VHT20	5500~5720	100 to 144	100,116,140,144	OFDM	MCS8	AUX
802.11n_HT40 802.11ac_VHT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS8	AUX
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	AUX
802.11ac_VHT160	5570	114	114	OFDM	MCS0	AUX
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	AUX
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	AUX
802.11n_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS8	AUX
802.11ac_VHT80	5775	155	155	OFDM	MCS0	AUX

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5 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575 dB
26dB & 6dB Emission Bandwidth	+/- 147.256 Hz
The Maximum Output Power	+/- 1.924 dB
Peak Power Spectral Density	+/- 2.038 dB
Frequency Stability	+/- 147.256 Hz
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12 dB
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68 dB
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18 dB
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47 dB
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81 dB
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87 dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.
3. 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.
CABLE	EMCI	CFD300-NL	CERF	2018/06/29	2019/06/28
EMI Test Receiver	R&S	ESCI	100064	2018/07/24	2019/07/23
LISN	SCHWARZBECK	NSLK 8127	8127-541	2019/01/31	2020/01/30
LISN	SCHAFFNER	NNB 41	03/10013	2019/02/13	2020/02/12
Software	EZ-EMC(CCS-3A1-CE)				

6.3 EUT Setup

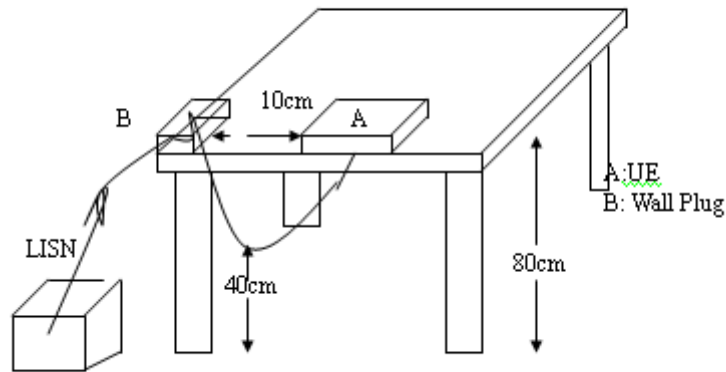
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz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

Job No.: T190226W02-RP1~4

Date: 2019/3/12

Company: HUAWEI

Time: AM 08:54:00

Standard: NCC/FCC/IC QP

Temp.(°C)/Hum.(%): 23(°C)/60%

Test item: Conduction test

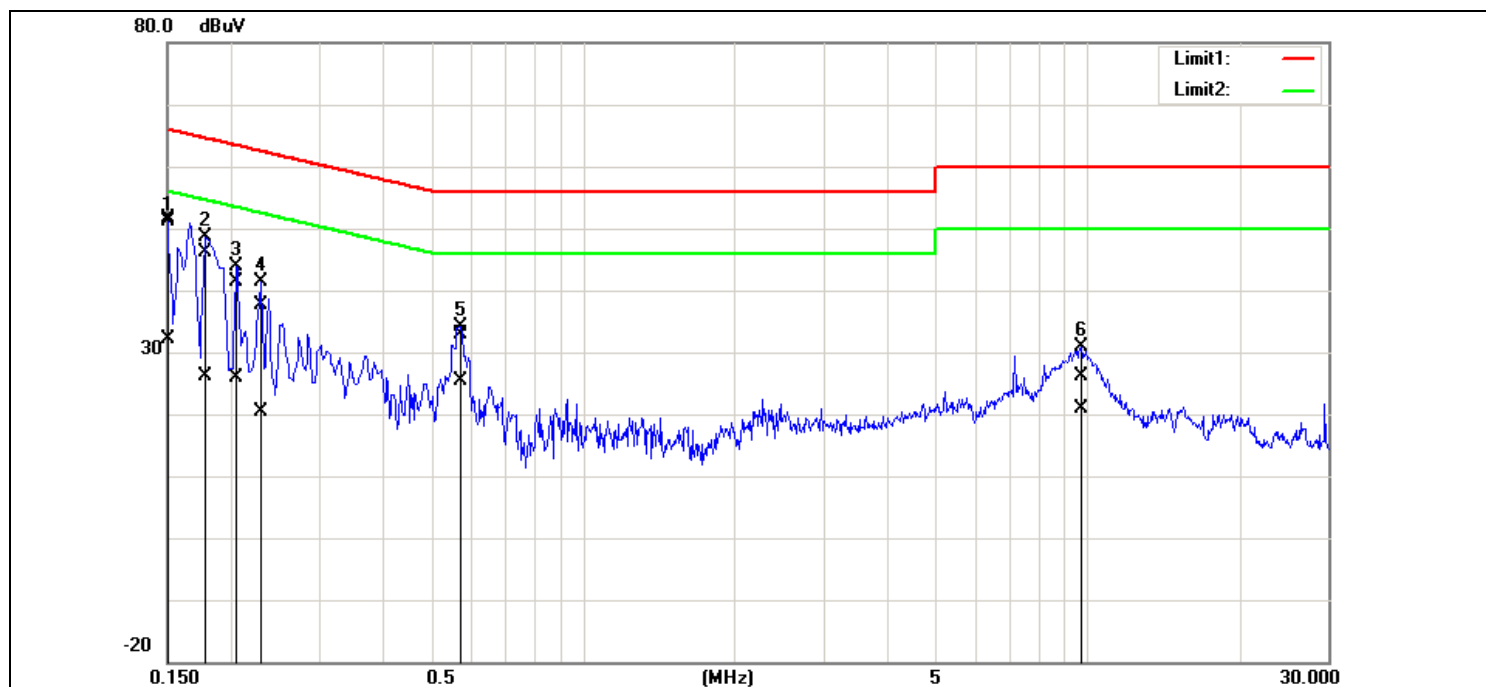
Test By: Henry

Line: L1

Test Voltage: AC 120V/60Hz

Model: H97

Description:



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1500	51.42	31.90	0.16	51.58	32.06	65.99	56.00	-14.41	-23.94	Pass
2	0.1785	45.95	26.01	0.15	46.10	26.16	64.55	54.56	-18.45	-28.40	Pass
3	0.2060	41.25	25.81	0.15	41.40	25.96	63.36	53.37	-21.96	-27.41	Pass
4	0.2300	37.44	20.33	0.15	37.59	20.48	62.45	52.45	-24.86	-31.97	Pass
5	0.5740	32.65	25.29	0.16	32.81	25.45	56.00	46.00	-23.19	-20.55	Pass
6	9.7299	25.79	20.41	0.45	26.24	20.86	60.00	50.00	-33.76	-29.14	Pass

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Job No.: T190226W02-RP1~4

Date: 2019/3/12

Company: HUAWEI

Time: AM 08:57:33

Standard: NCC/FCC/IC QP

Temp.(°C)/Hum.(%): 23(°C)/60%

Test item: Conduction test

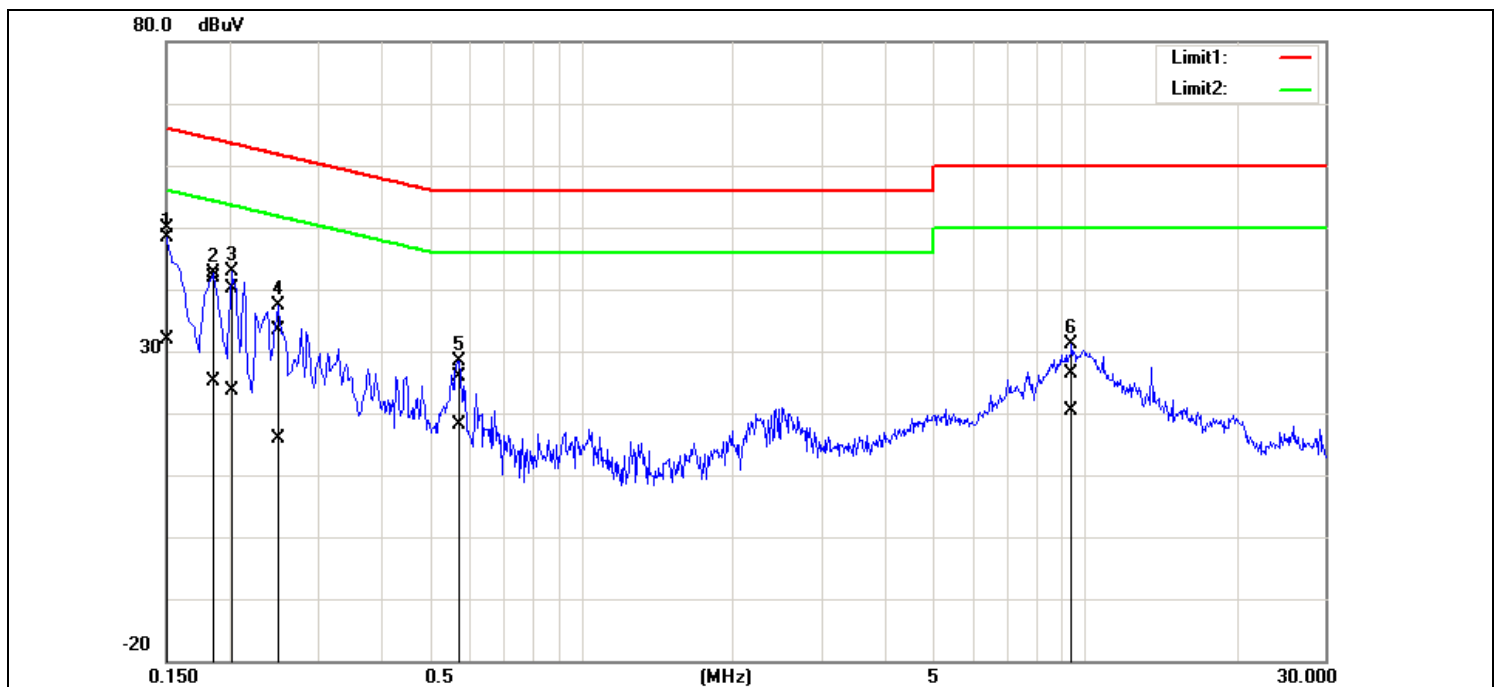
Test By: Henry

Line: N

Test Voltage: AC 120V/60Hz

Model: H97

Description:



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1500	49.79	31.63	0.16	49.95	31.79	65.99	56.00	-16.04	-24.21	Pass
2	0.1860	41.75	25.00	0.15	41.90	25.15	64.21	54.21	-22.31	-29.06	Pass
3	0.2020	39.91	23.41	0.15	40.06	23.56	63.52	53.53	-23.46	-29.97	Pass
4	0.2500	33.26	15.85	0.15	33.41	16.00	61.75	51.76	-28.34	-35.76	Pass
5	0.5740	25.78	18.09	0.16	25.94	18.25	56.00	46.00	-30.06	-27.75	Pass
6	9.4100	25.82	19.96	0.44	26.26	20.40	60.00	50.00	-33.74	-29.60	Pass

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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.

Formula:

$$\text{Duty Cycle} = T_{\text{on}} / (T_{\text{on}} + T_{\text{off}})$$

Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	84.86	0.71	0.49	1.00
802.11n_20	84.30	0.74	1.02	2.00
802.11ac_20	84.41	0.74	1.02	2.00
802.11n_40	83.81	0.77	2.03	3.00
802.11ac_40	83.46	0.79	2.02	3.00
802.11ac_80	82.69	0.83	3.91	4.00
802.11ac_160	74.70	1.27	6.61	7.00

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8486) = 0.71$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.843) = 0.74$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8441) = 0.74$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8381) = 0.77$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8346) = 0.79$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8269) = 0.83$$

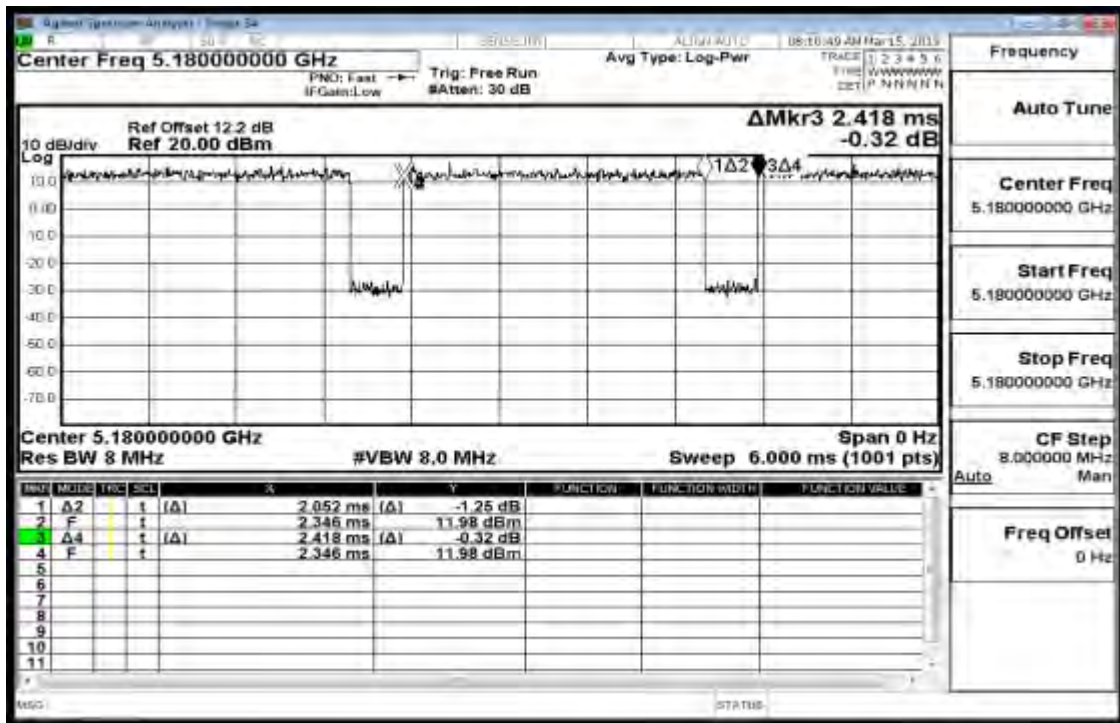
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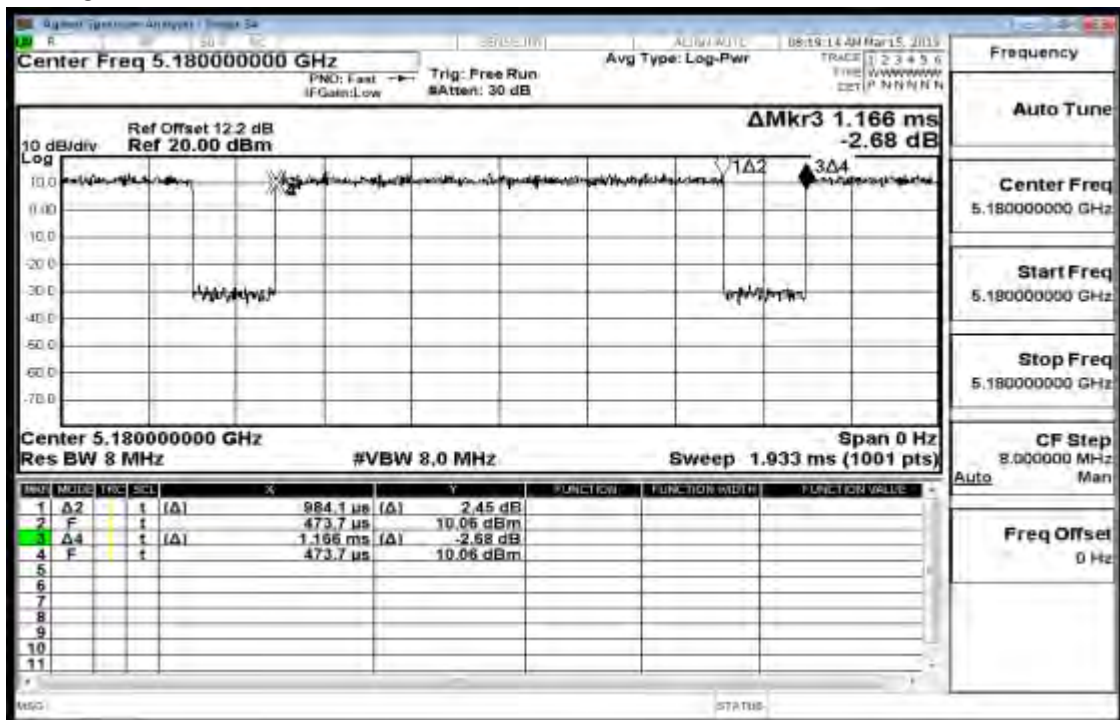
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DUTY CYCLE TEST SIGNAL Measurement Result

802.11a



802.11n HT20

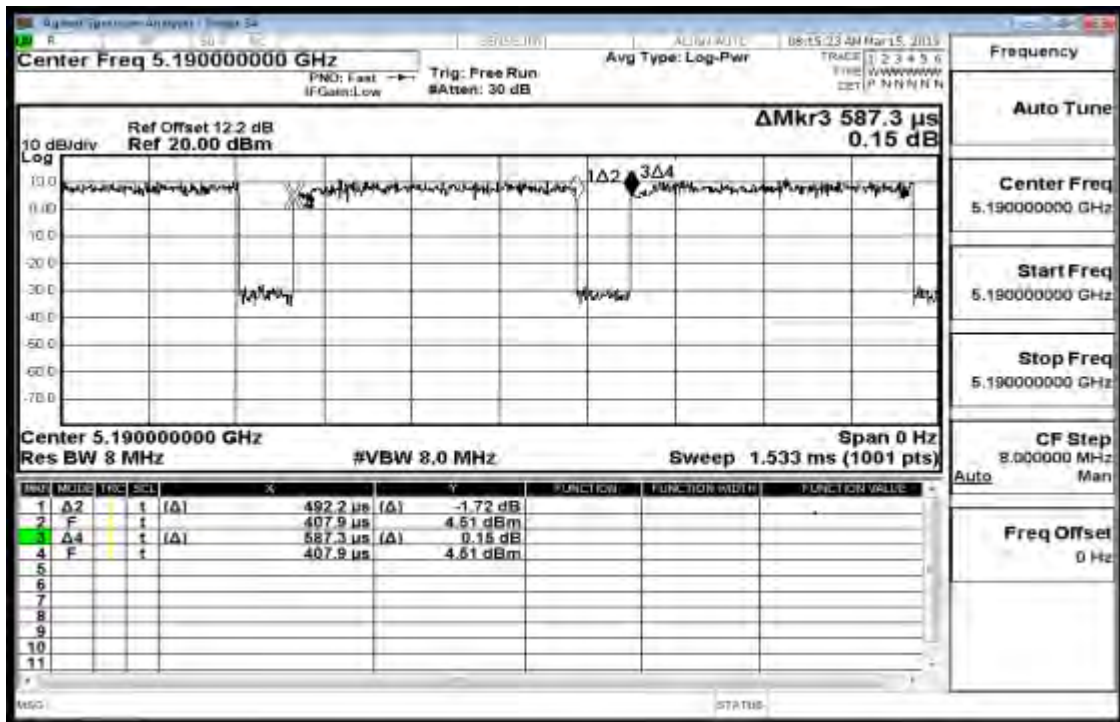


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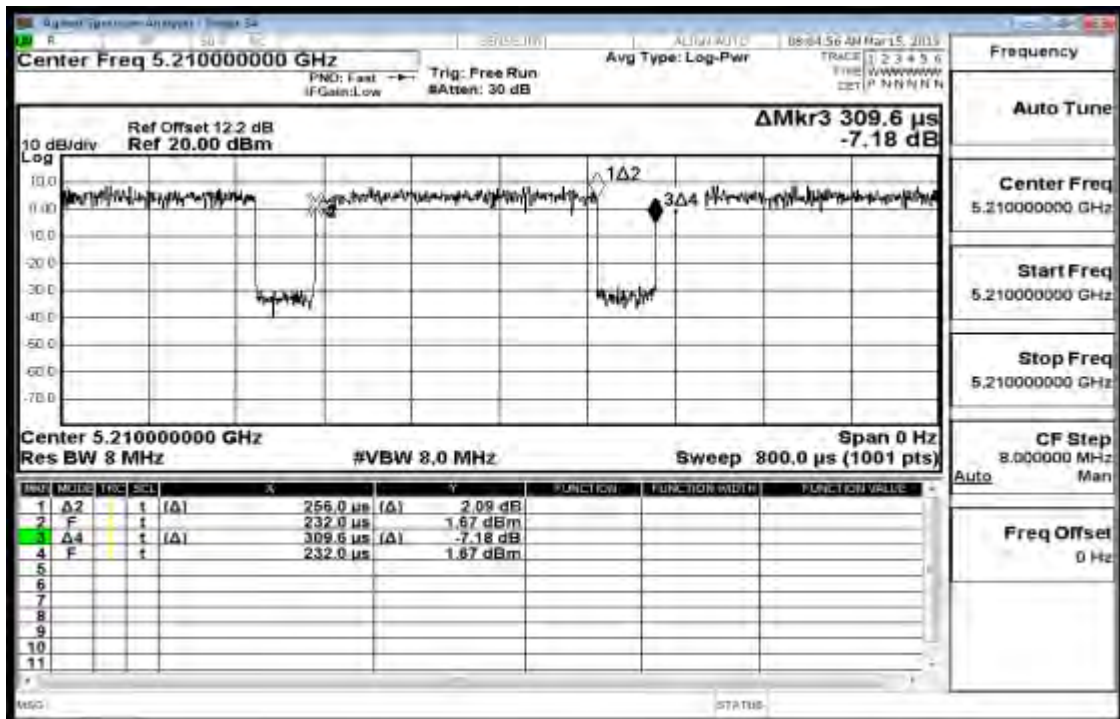
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802.11n HT 40



802.11 ac VHT 80

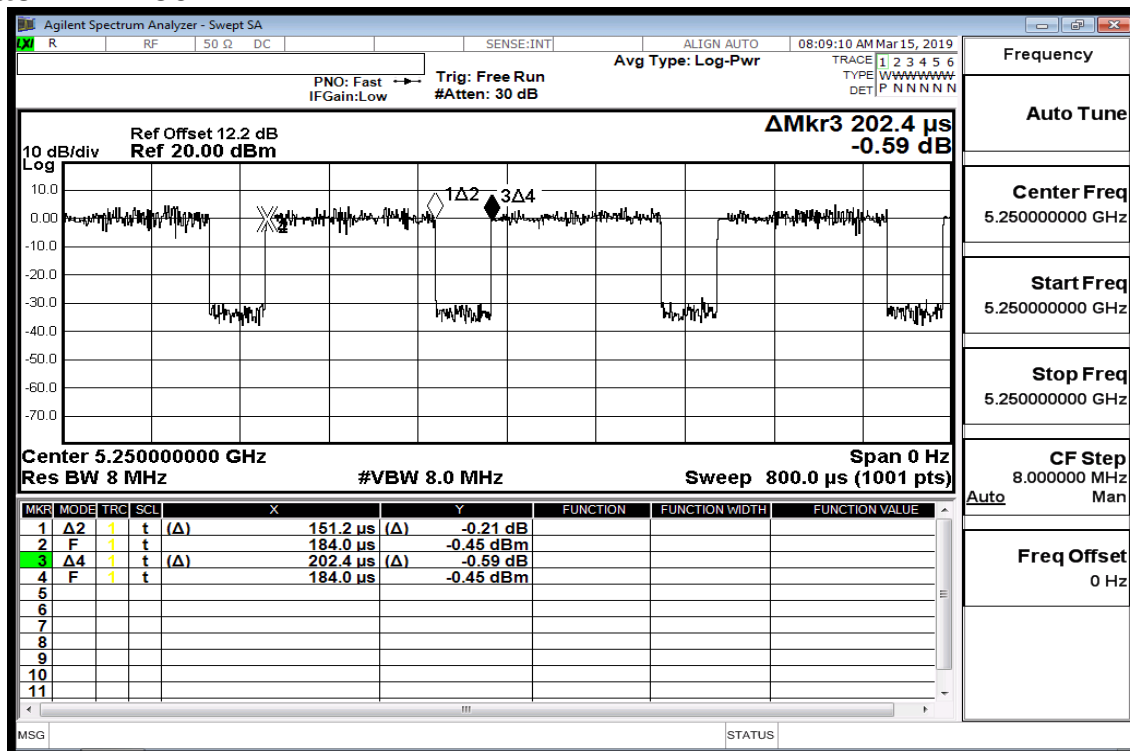


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802.11 ac VHT 160



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8 26DB & 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.
 - 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.
 - 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. Repeat above procedures until all test default channel measured were complete.

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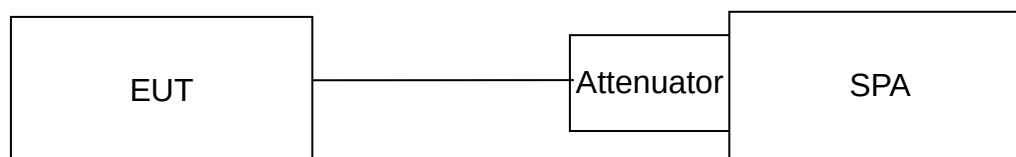
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8.3 Measurement Equipment Used

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	2018/11/21	2019/11/20
DC Power Supply	Agilent	E3640A	KR93300208	2018/08/15	2019/08/14
DC Block	PASTERNAK	PE8210	RF29	2019/02/26	2020/02/25
Attenuator	Marvelous	MVE2213-10	RF80	2019/02/26	2020/02/25

8.4 Test Set-up



8.5 Measurement Result

26dB and 6dB Bandwidth

802.11a_Ch0

802.11a_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.25	13.664	5180	23.53	13.716
5220	24.25	13.847	5220	23.74	13.755
5240	23.33	13.679	5240	29.93	14.761
5260	23.68	13.744	5260	24.49	13.890
5300	23.68	13.744	5300	23.95	13.793
5320	24.82	13.948	5320	22.26	13.475
5500	22.97	13.612	5500	23.43	13.698
5580	23.78	13.762	5580	23.55	13.720
5700	23.06	13.629	5700	23.55	13.720

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802.11a_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.34	12.133	5745	16.31	12.125
5785	16.35	12.135	5785	16.36	12.138
5825	16.36	12.138	5825	16.33	12.130

802.11a_Ch1

802.11n_HT20_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	24.32	13.860	5180	22.85	13.589
5220	25.43	14.053	5220	23.09	13.634
5240	20.96	13.214	5240	23.76	13.758
5260	23.99	13.800	5260	24.36	13.867
5300	23.66	13.740	5300	24.11	13.822
5320	23.53	13.716	5320	24.06	13.813
5500	23.47	13.705	5500	23.78	13.762
5580	23.42	13.696	5580	23.26	13.666
5700	27.03	14.318	5700	23.42	13.696
5720(U-NII 2C)	16.48	12.170	5720(U-NII 2C)	19.92	12.993
5720 (U-NII 3)	7.16	8.549	5720 (U-NII 3)	6.88	8.376

802.11n_HT20_Ch1

802.11n_HT20_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.56	12.445	5745	17.60	12.455
5785	17.57	12.448	5785	17.58	12.450
5825	17.62	12.460	5825	17.58	12.450

802.11n_HT20_Ch1

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802.11n_HT40_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	43.93	16.428	5190	43.58	16.393
5230	44.17	16.451	5230	44.42	16.476
5270	41.38	16.168	5270	43.25	16.360
5310	44.86	16.519	5310	43.69	16.404
5510	45.18	16.549	5510	45.46	16.576
5550	43.41	16.376	5550	50.00	16.990
5670	45.06	16.538	5670	44.19	16.453
5710 (U-NII 2C)	36.12	15.577	5710 (U-NII 2C)	36.52	15.625
5710 (U-NII 3)	6.28	7.980	5710 (U-NII 3)	6.60	8.195

802.11n_HT40_Ch1

802.11n_HT40_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.74	15.532	5755	36.33	15.603
5795	36.34	15.604	5795	36.32	15.601

802.11n_HT40_Ch1

802.11ac_VHT80_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.47	19.163	5210	81.95	19.135
5290	87.53	19.422	5290	92.08	19.642
5530	83.19	19.201	5530	100.00	20.000
5610	100.00	20.000	5610	100.00	20.000
5690 (U-NII 2C)	77.40	18.887	5690 (U-NII 2C)	77.72	18.905
5690 (U-NII 3)	8.52	9.304	5690 (U-NII 3)	7.24	8.597

802.11ac_VHT80_Ch1

802.11ac_VHT80_Ch0

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.12	18.758	5775	73.89	18.686

802.11ac_VHT80_Ch1

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802.11ac _VHT160_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	163.20	22.127
5570	160.70	22.060

802.11ac _VHT160_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	161.20	22.074
5570	163.50	22.135

99% Bandwidth

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.860	12.269
5220	16.952	12.292
5240	16.894	12.277
5260	16.926	12.286
5300	16.928	12.286
5320	16.910	12.281
5500	16.799	12.253
5580	16.870	12.271
5700	16.843	12.264

802.11a_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.867	12.270
5220	16.980	12.299
5240	16.946	12.291
5260	16.985	12.301
5300	16.894	12.277
5320	16.840	12.263
5500	16.911	12.282
5580	16.959	12.294
5700	16.935	12.288

802.11a_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.46	< 5250
5745	5736.75	> 5725

802.11a_Ch1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.61	< 5250
5745	5736.69	> 5725

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802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	18.017	12.557	5180	18.008	12.555
5220	17.999	12.552	5220	17.993	12.551
5240	18.056	12.566	5240	18.006	12.554
5260	18.065	12.568	5260	18.133	12.585
5300	17.992	12.551	5300	18.101	12.577
5320	18.044	12.563	5320	18.060	12.567
5500	17.981	12.548	5500	18.147	12.588
5580	17.958	12.543	5580	18.012	12.556
5700	18.074	12.571	5700	18.086	12.573
5720(U-NII 2C)	14.029	11.470	5720(U-NII 2C)	14.032	11.471
5720 (U-NII 3)	4.029	6.052	5720 (U-NII 3)	4.032	6.055

802.11n_HT20_Ch1

802.11n_HT20_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5249.03	< 5250
5745	5736.09	> 5725

802.11n_HT20_Ch1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5249.00	< 5250
5745	5736.12	> 5725

802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.268	15.595
5230	36.269	15.595
5270	36.221	15.590
5310	36.299	15.599
5510	36.261	15.594
5550	36.266	15.595
5670	36.294	15.598
5710(U-NII 2C)	33.150	15.205
5710 (U-NII 3)	3.150	4.983

802.11n_HT40_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.345	15.604
5230	36.272	15.596
5270	36.207	15.588
5310	36.263	15.595
5510	36.305	15.600
5550	36.265	15.595
5670	36.213	15.589
5710(U-NII 2C)	33.123	15.201
5710 (U-NII 3)	3.123	4.946

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802.11n_HT40_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5248.25	< 5250
5755	5736.90	> 5725

802.11n_HT40_Ch1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5248.20	< 5250
5755	5736.85	> 5725

802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.008	18.751
5290	75.068	18.755
5530	75.033	18.753
5690(U-NII 2C)	72.543	18.606
5690 (U-NII 3)	2.543	4.053

802.11ac_VHT80_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	74.388	18.715
5290	75.358	18.771
5530	75.465	18.777
5690(U-NII 2C)	72.307	18.592
5690 (U-NII 3)	2.307	3.630

802.11ac_VHT80_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.70	< 5250
5775	5737.30	> 5725

802.11n_VHT80_Ch1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.60	< 5250
5775	5737.40	> 5725

802.11ac_VHT160_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5250	153.360	21.857
5570	128.030	21.073

802.11ac_VHT160_Ch1

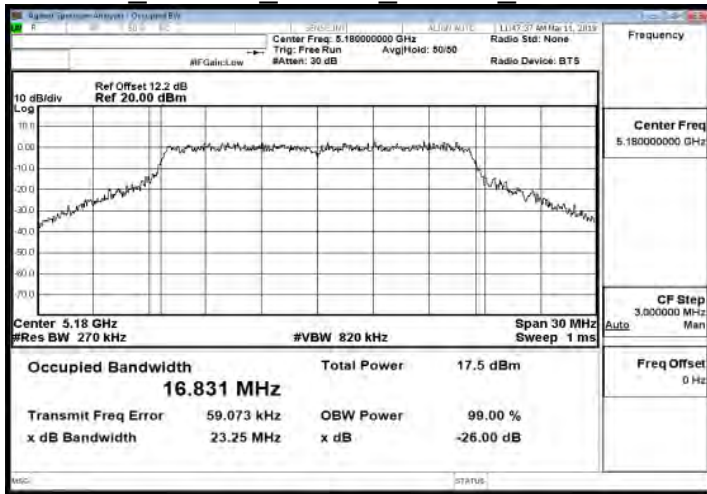
Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5250	150.420	21.773
5570	153.200	21.853

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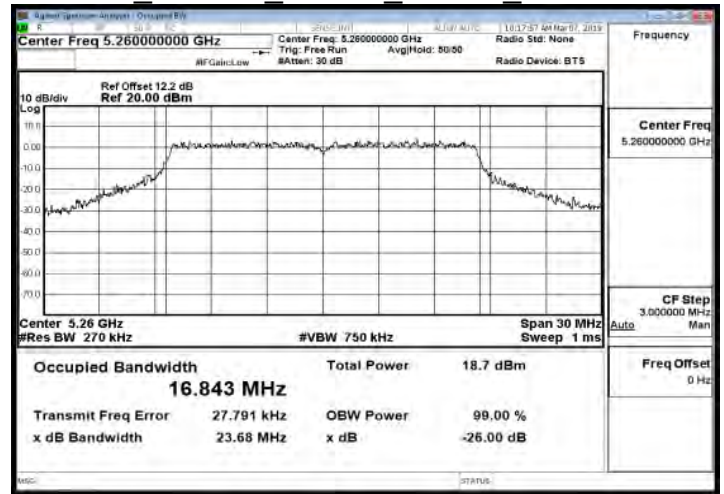
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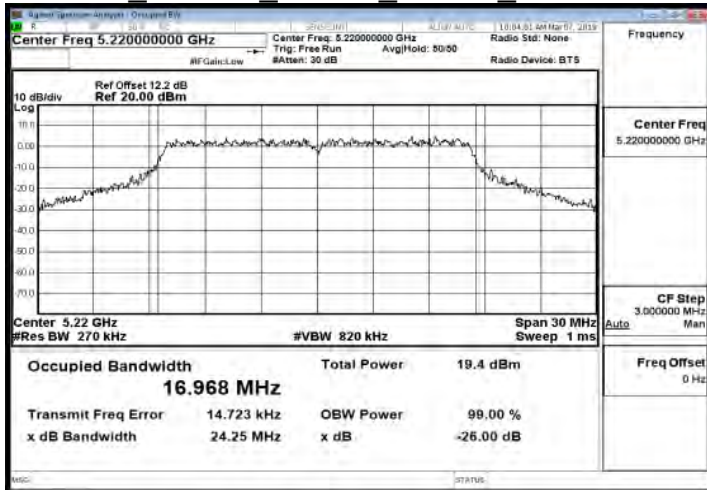
FCC 802.11a 20MHz Chain0 5180MHz



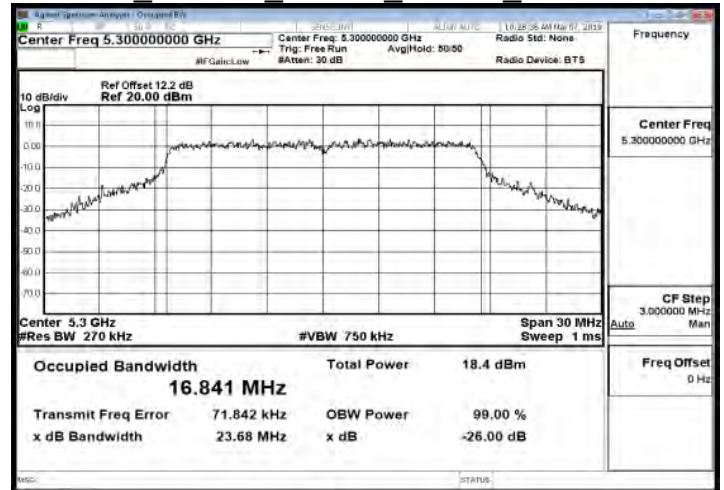
FCC 802.11a 20MHz Chain0 5260MHz



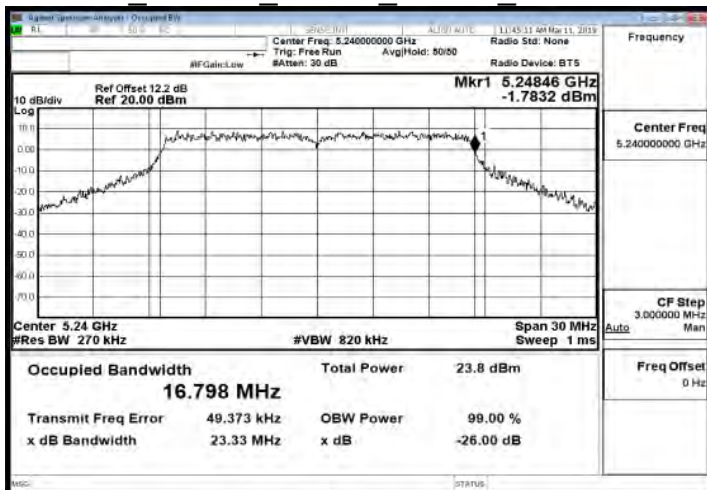
FCC 802.11a 20MHz Chain0 5220MHz



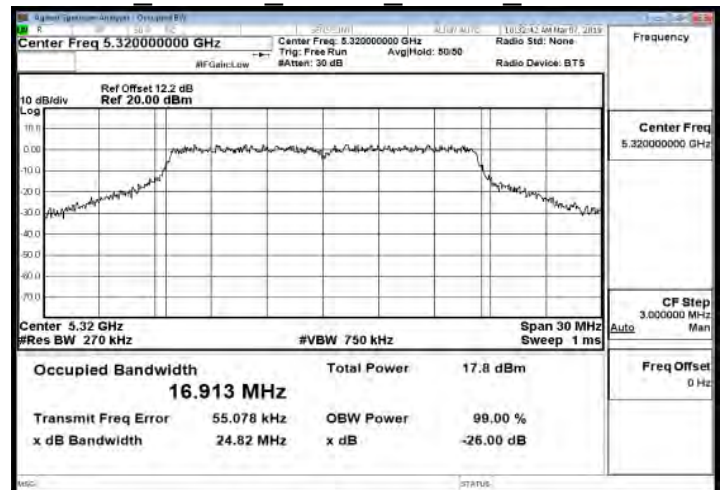
FCC 802.11a 20MHz Chain0 5300MHz



FCC 802.11a 20MHz Chain0 5240MHz



FCC 802.11a 20MHz Chain0 5320MHz

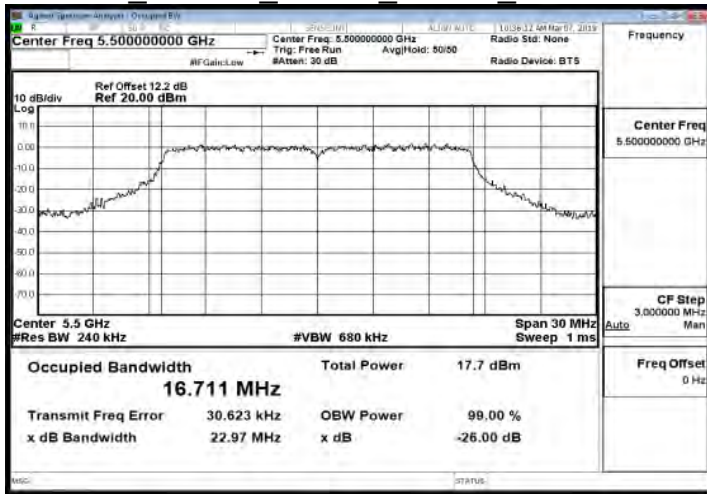


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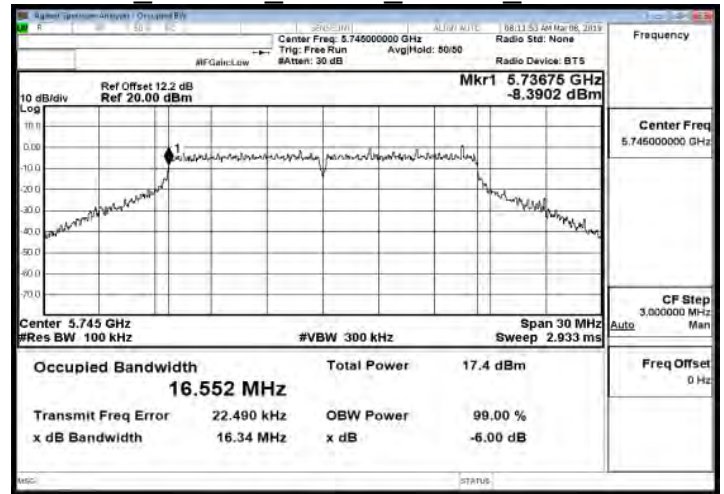
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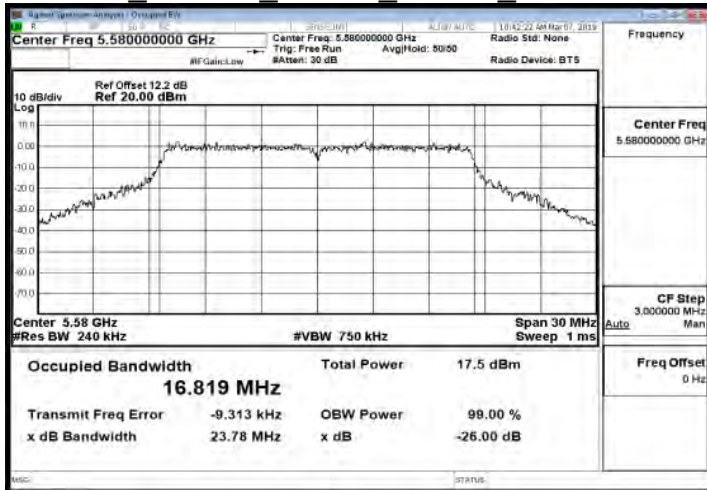
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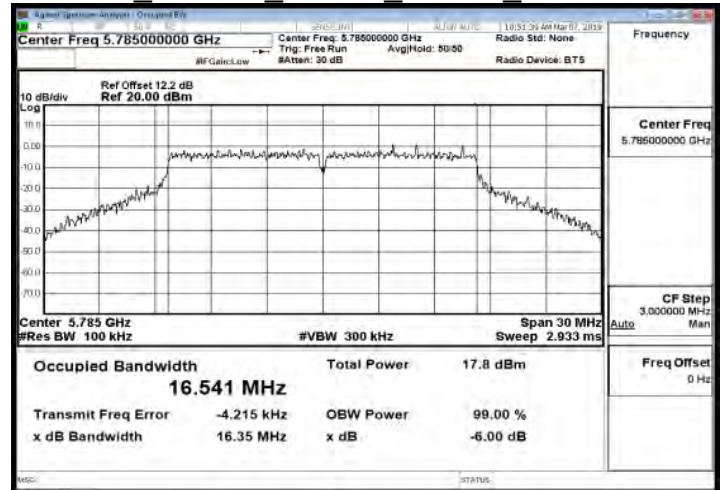
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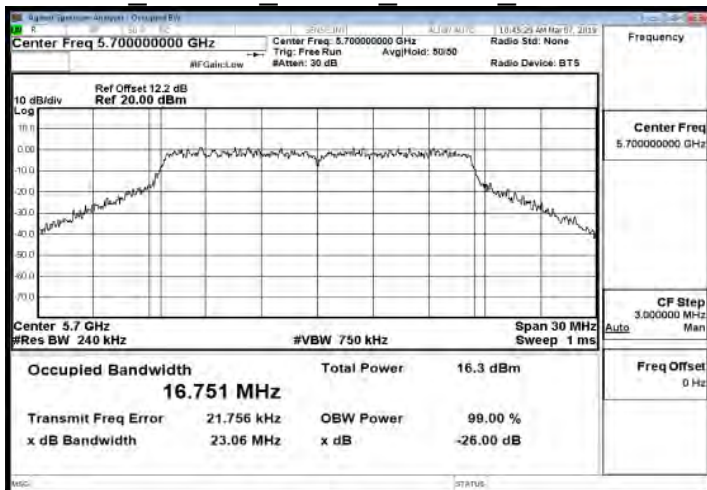
FCC 802.11a 20MHz Chain0 5580MHz



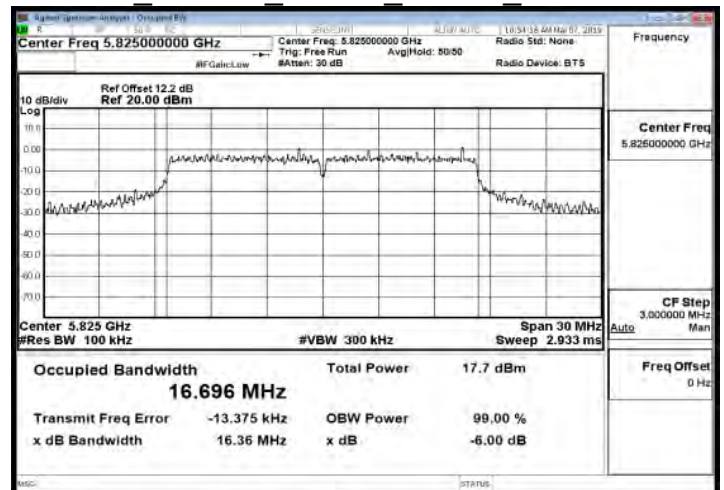
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FCC 802.11a 20MHz Chain0 5825MHz

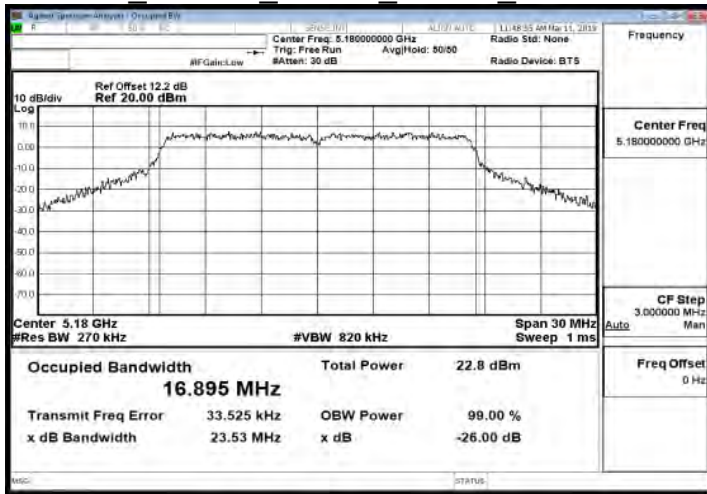


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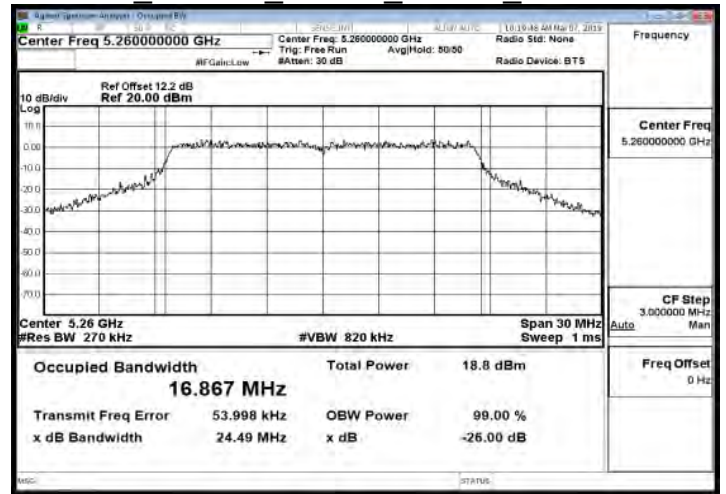
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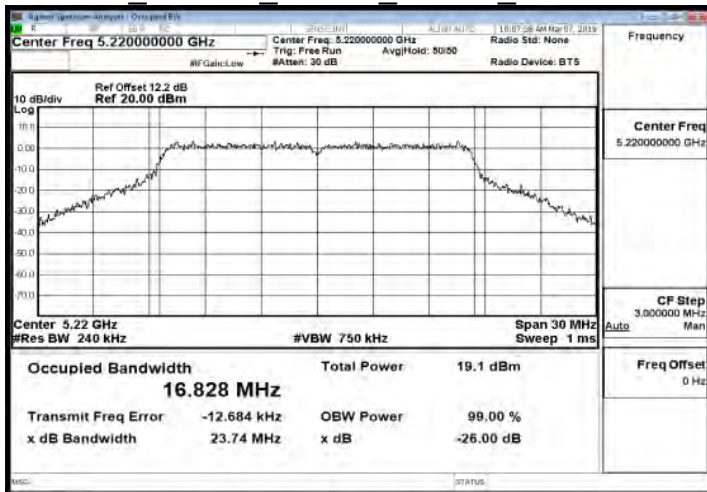
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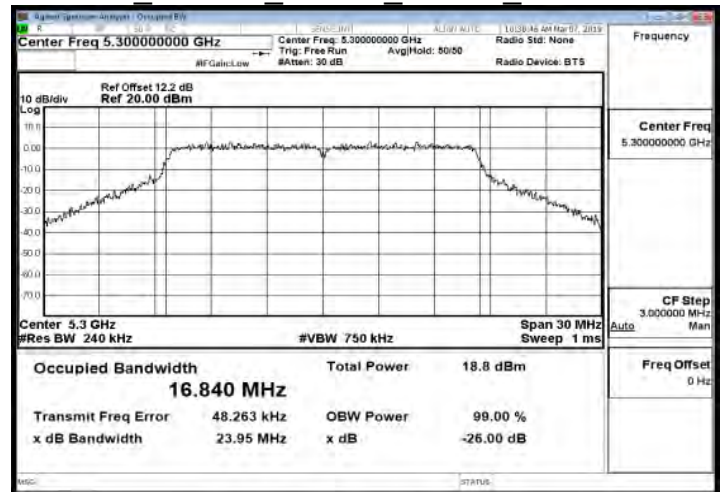
FCC 802.11a 20MHz Chain1 5260MHz



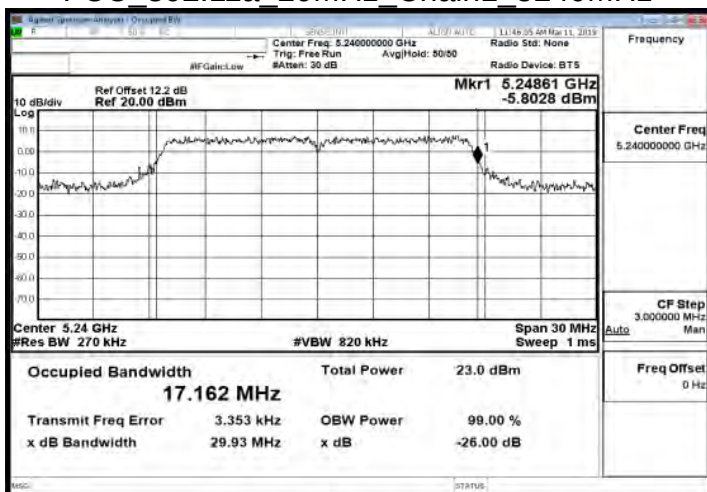
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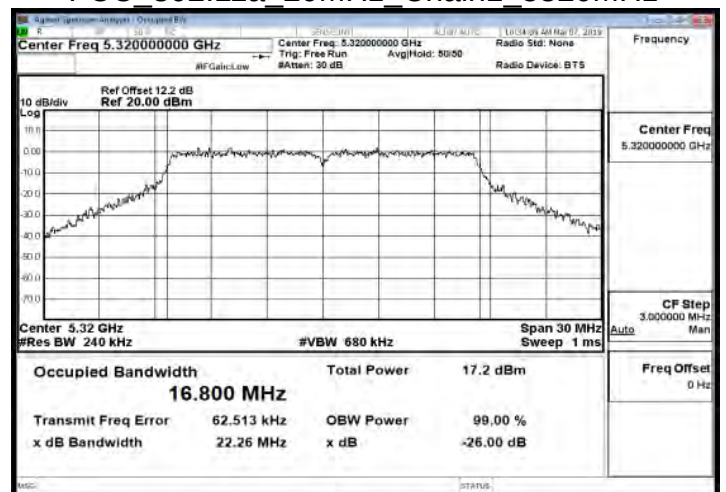
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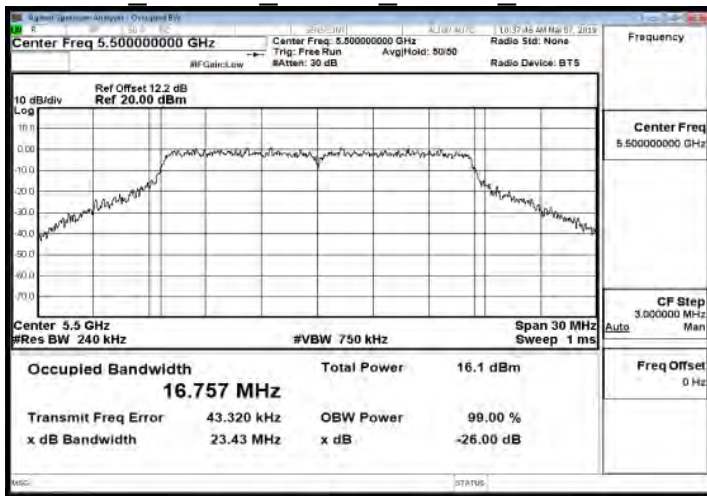


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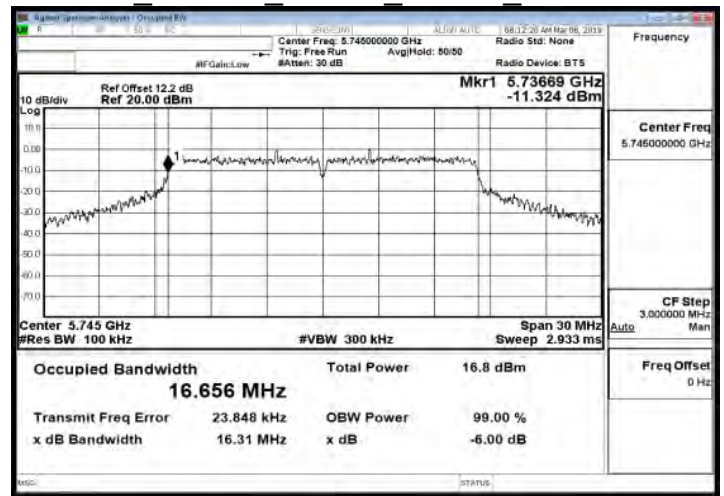
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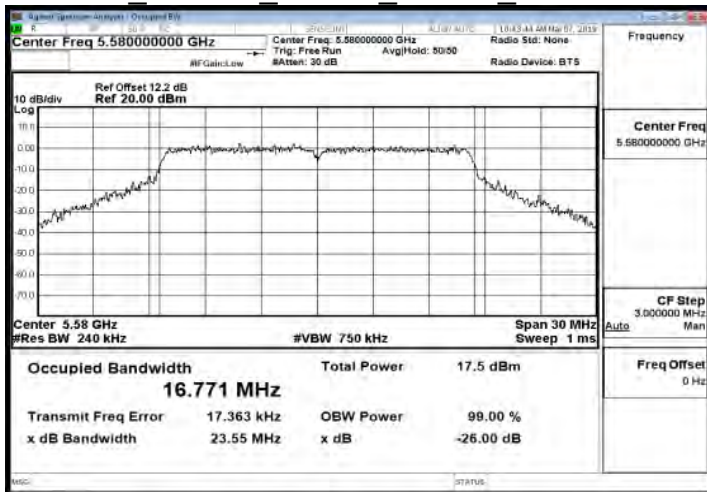
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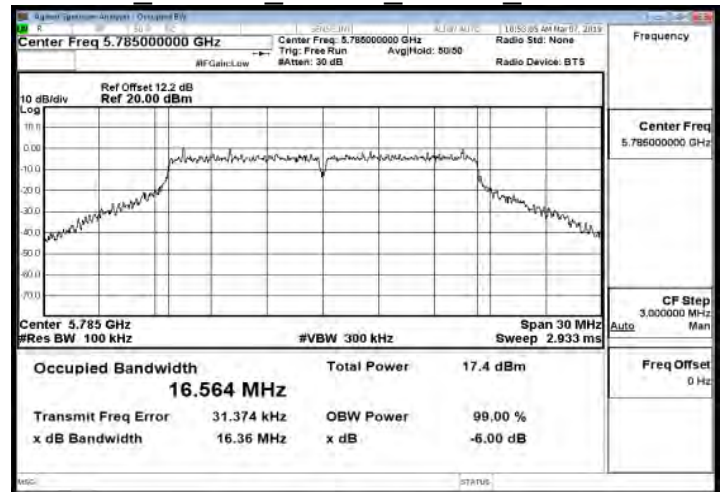
FCC 802.11a 20MHz Chain1 5745MHz



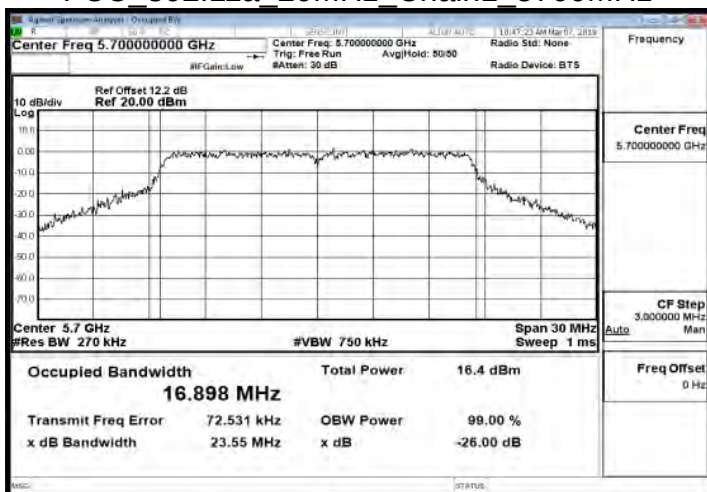
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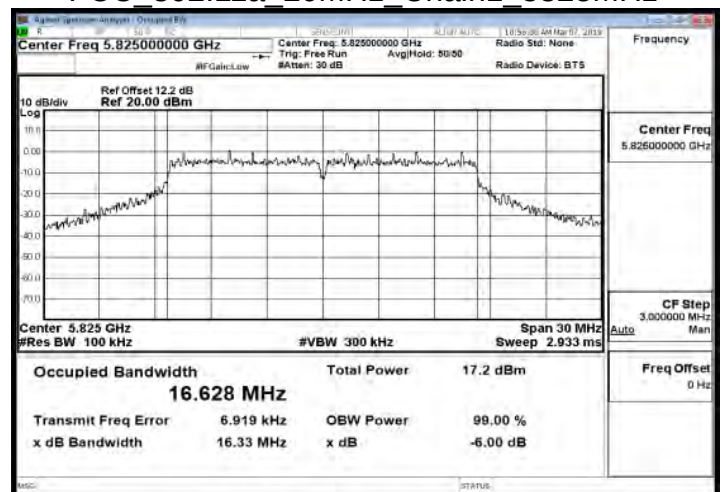
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FCC 802.11a 20MHz Chain1 5700MHz



FCC 802.11a 20MHz Chain1 5825MHz

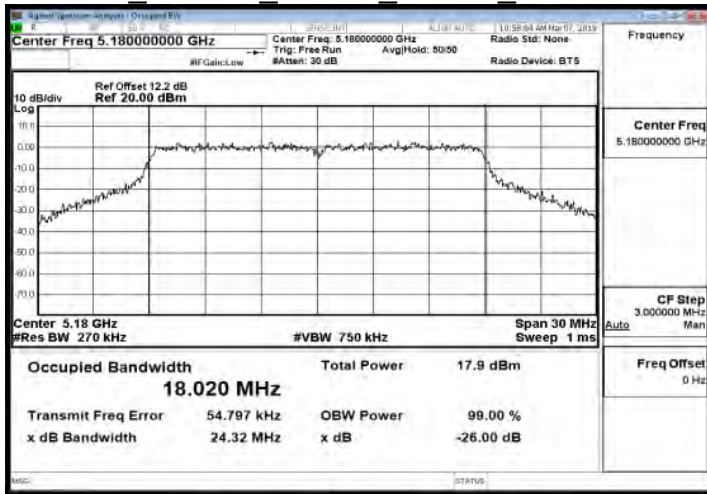


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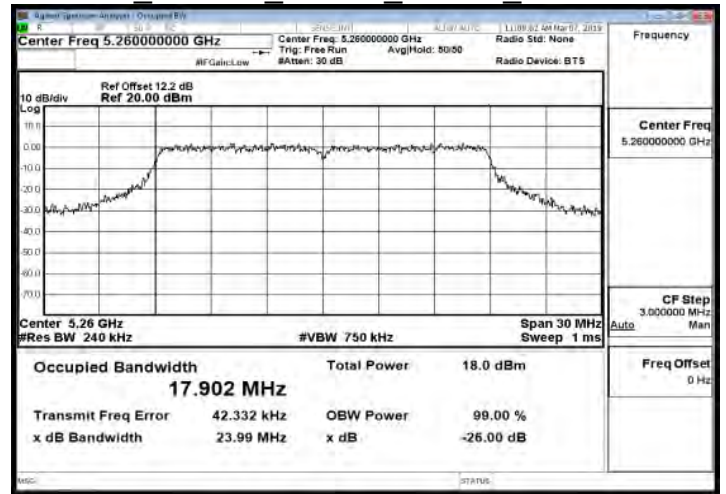
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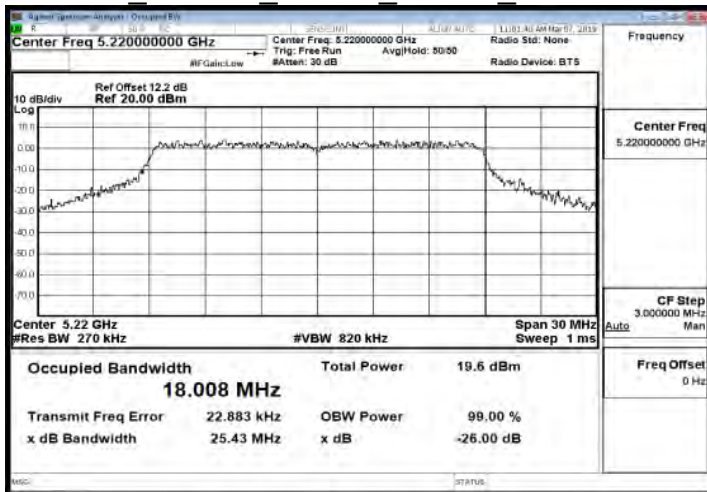
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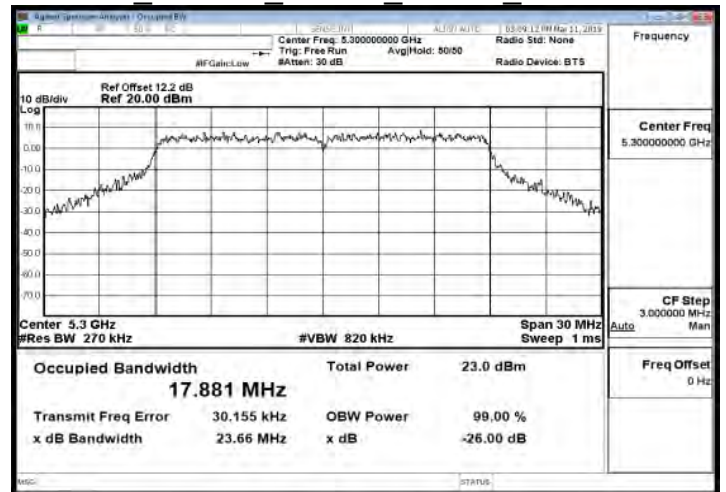
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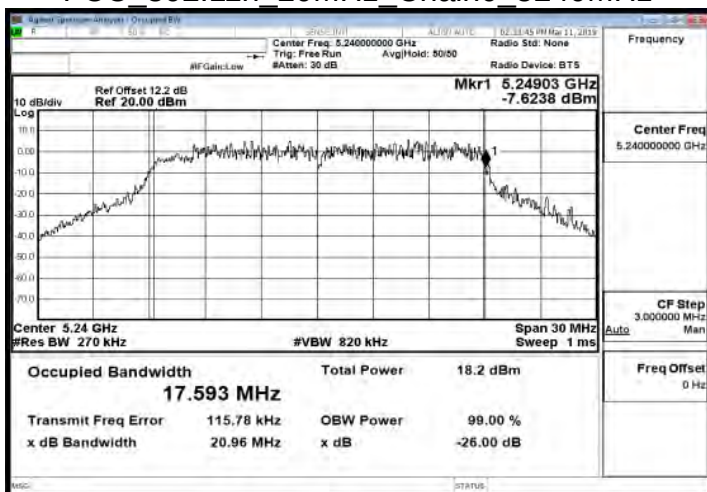
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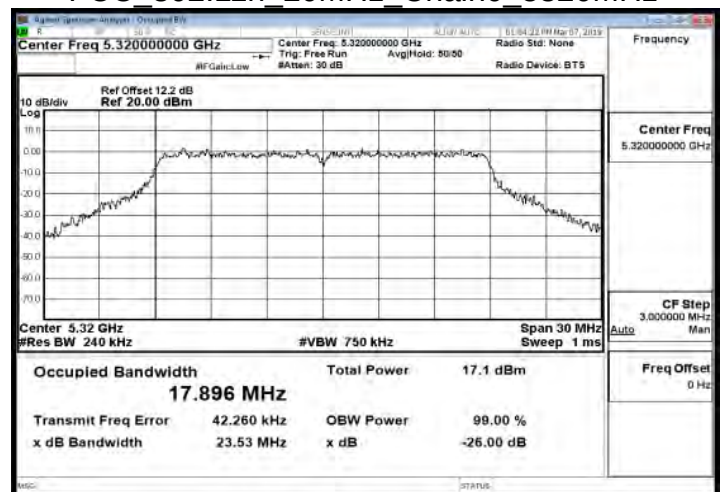
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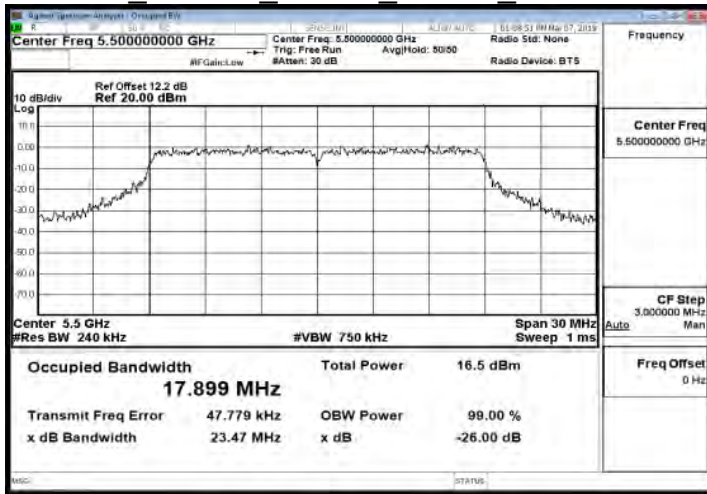


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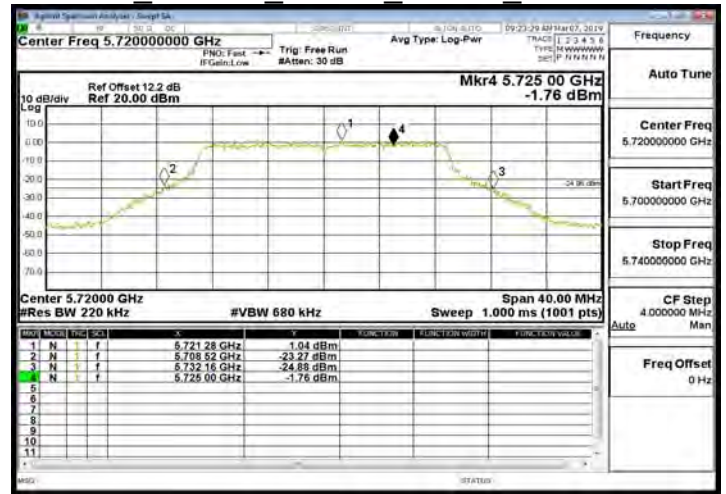
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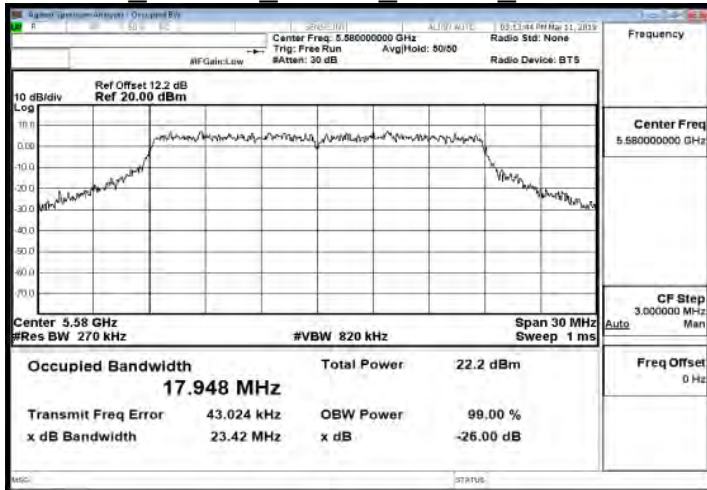
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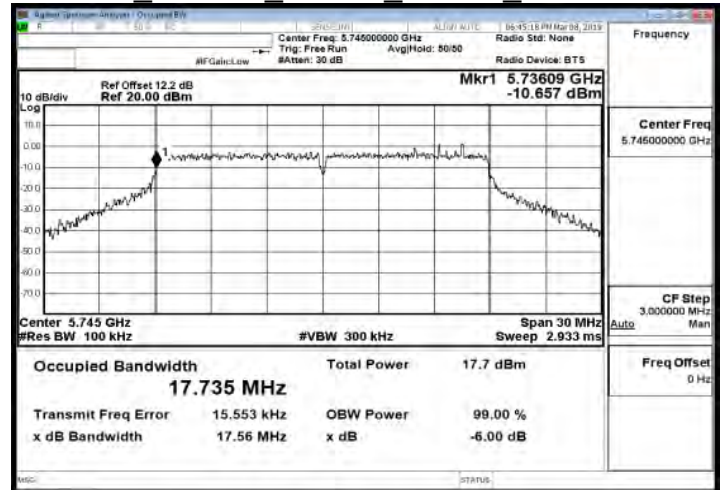
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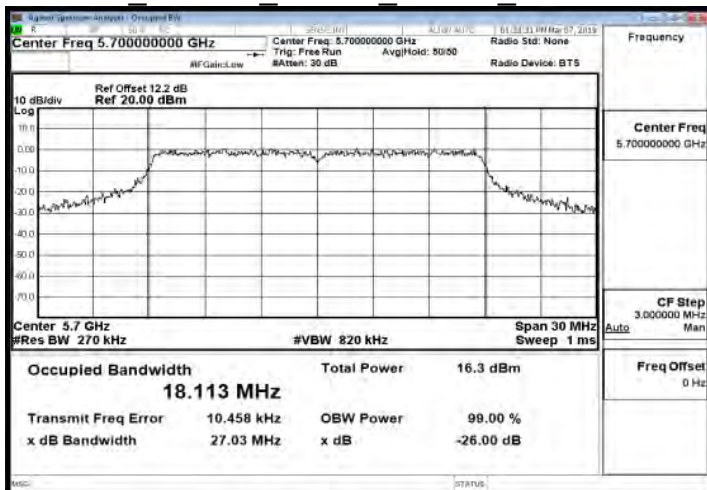
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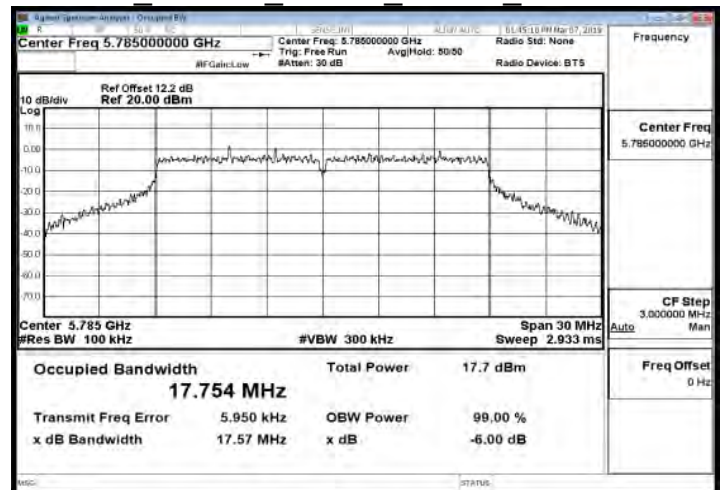
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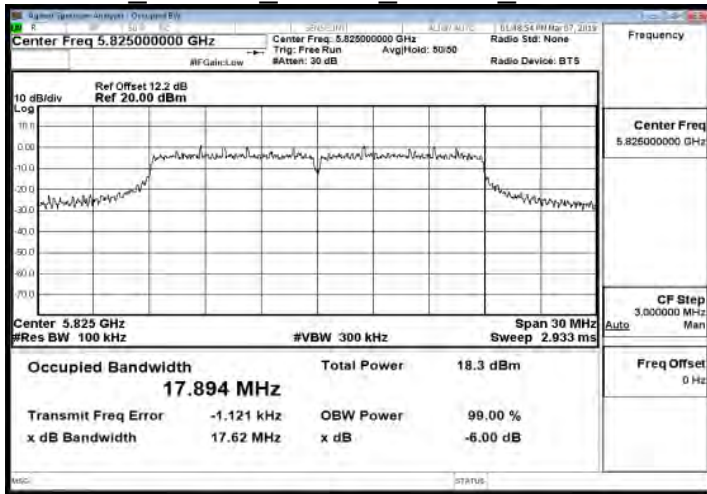


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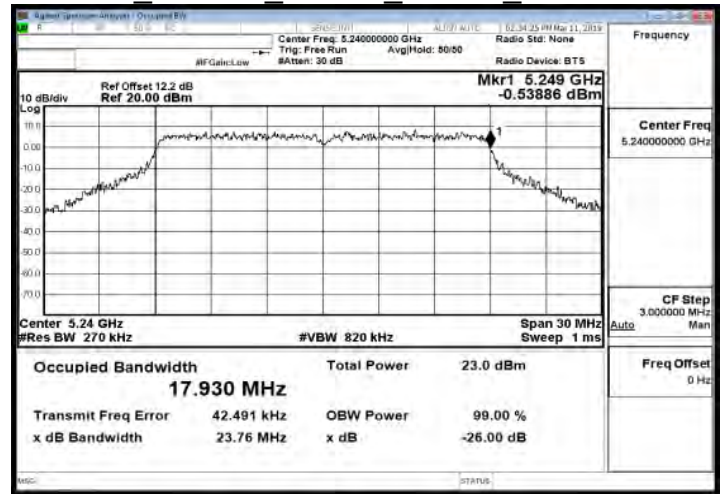
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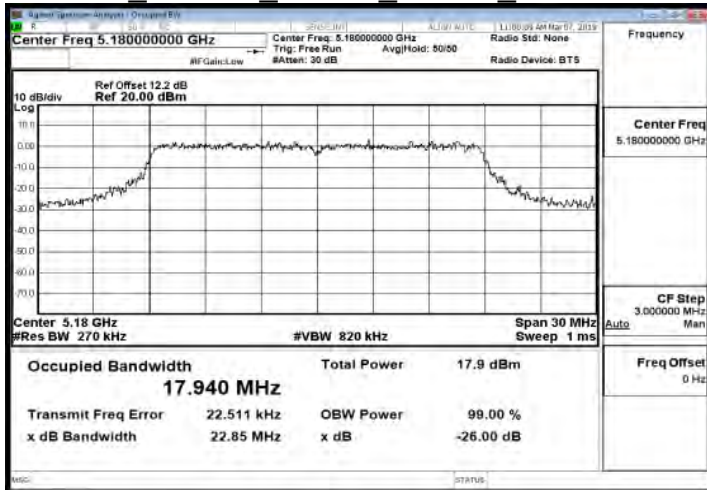
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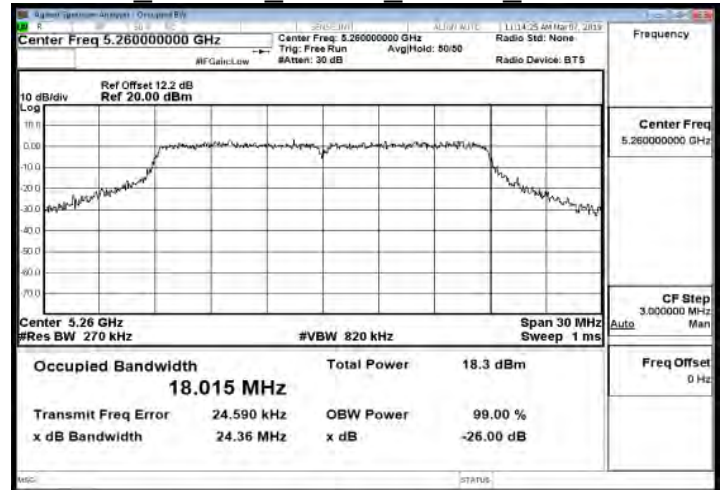
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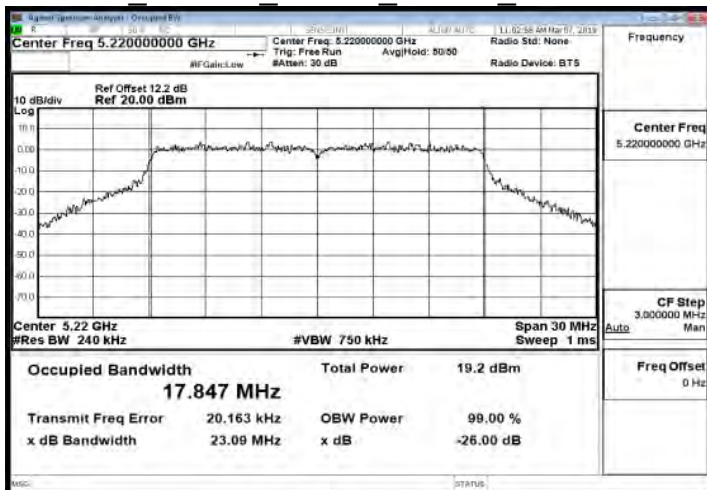
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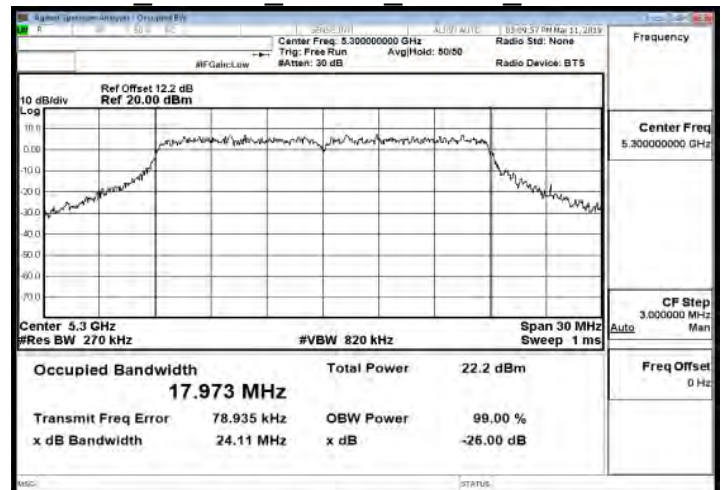
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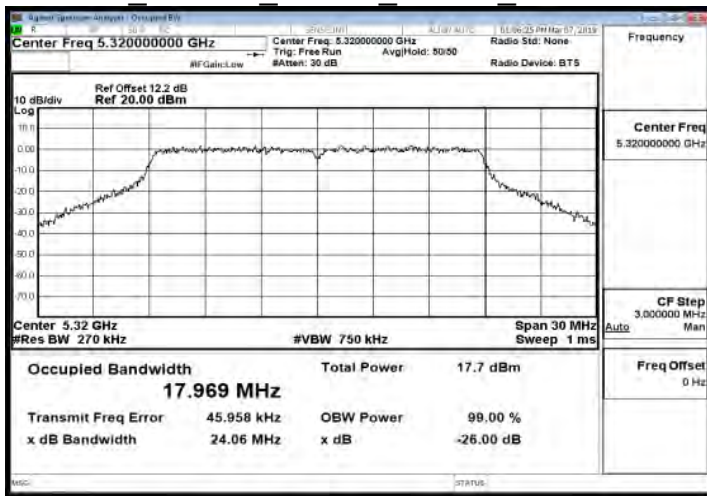


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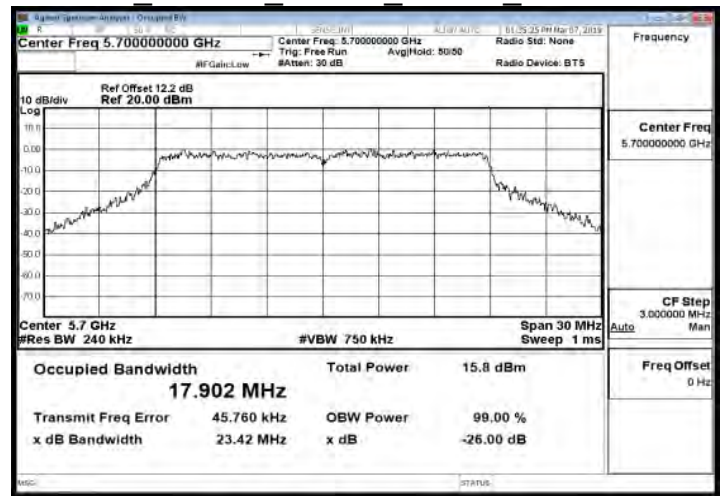
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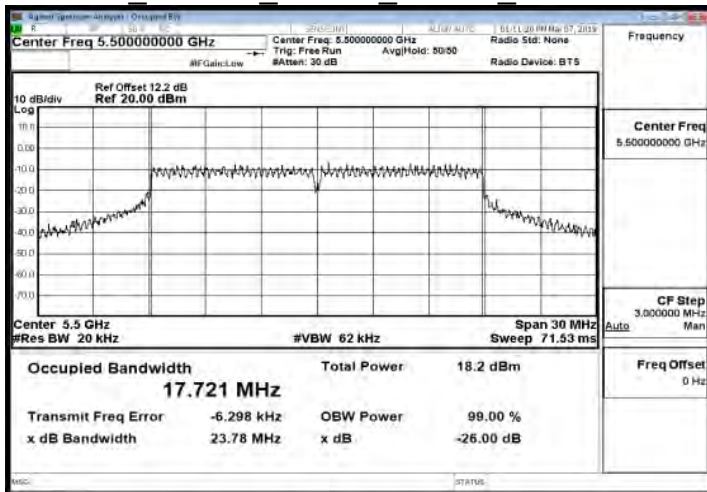
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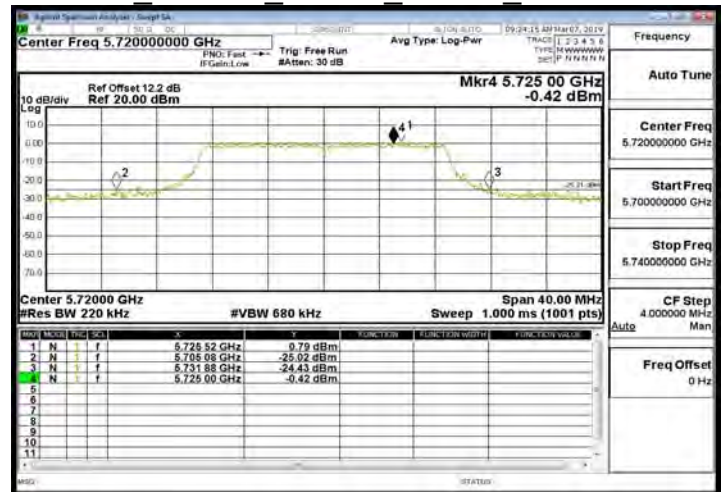
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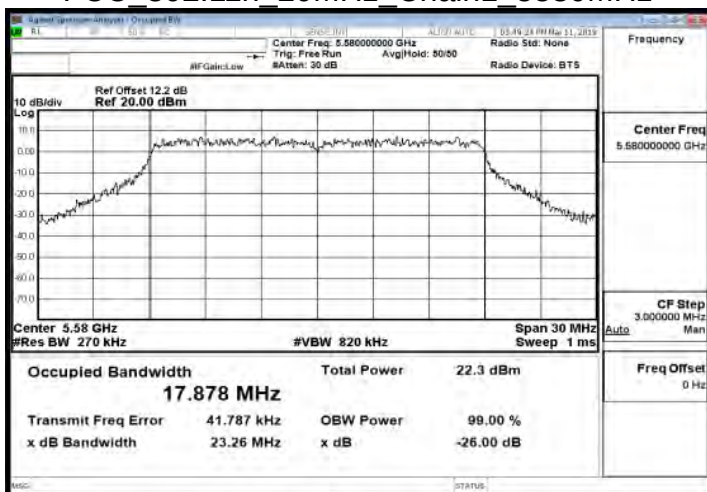
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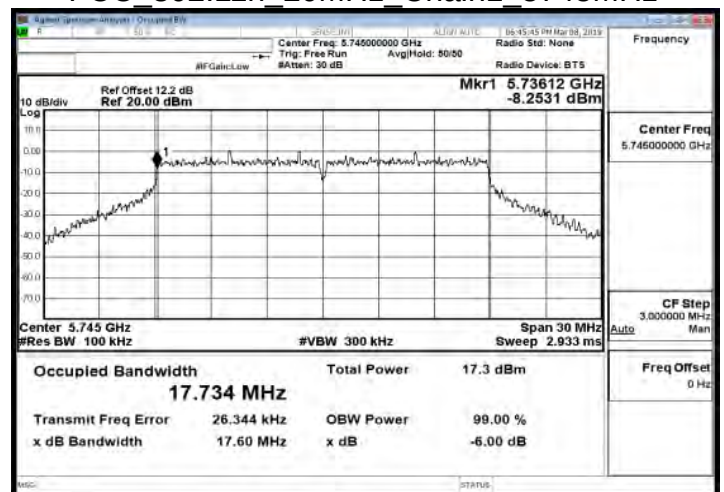
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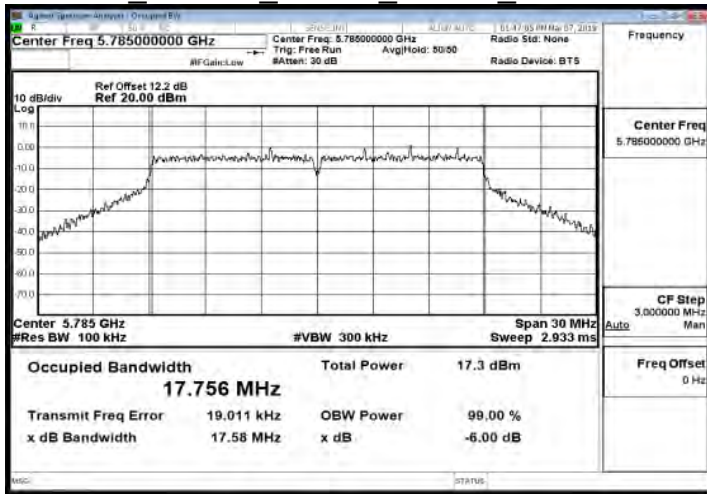


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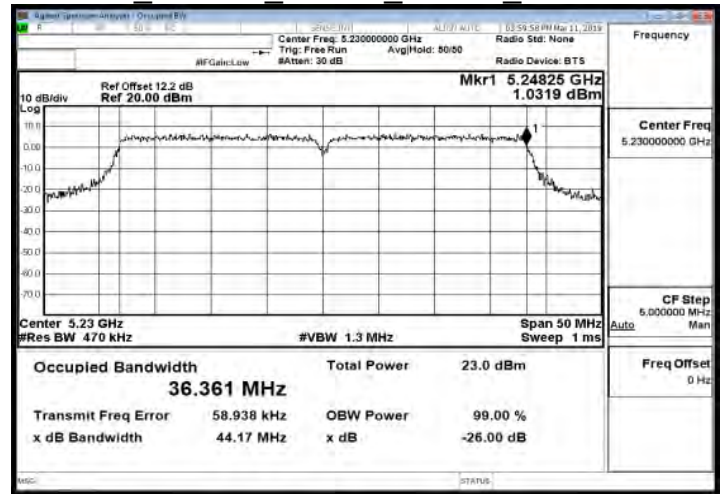
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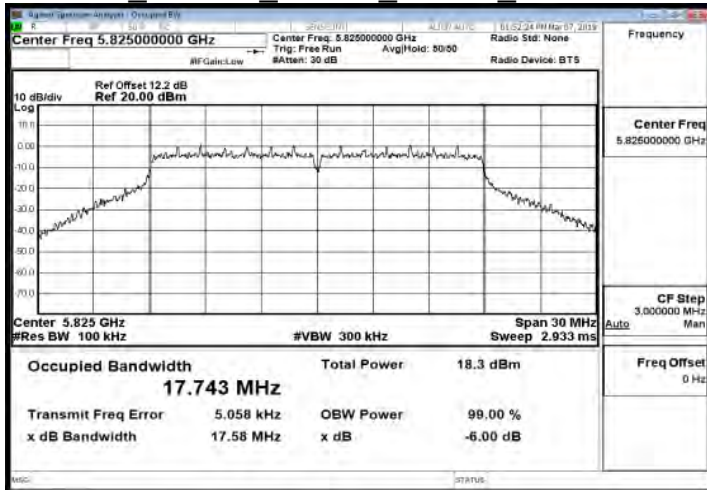
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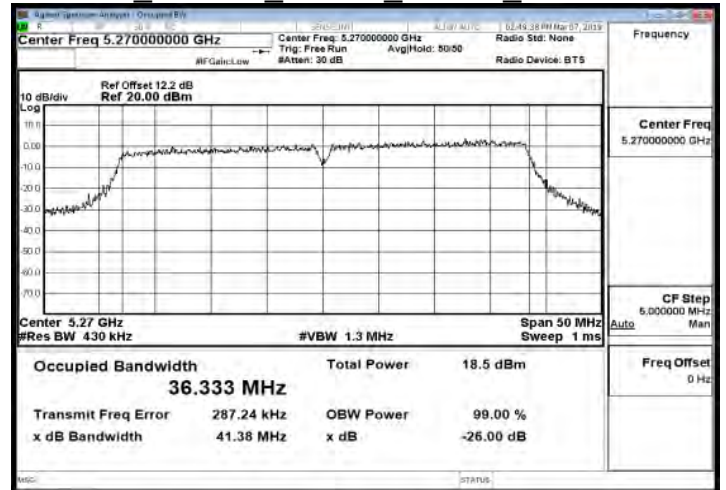
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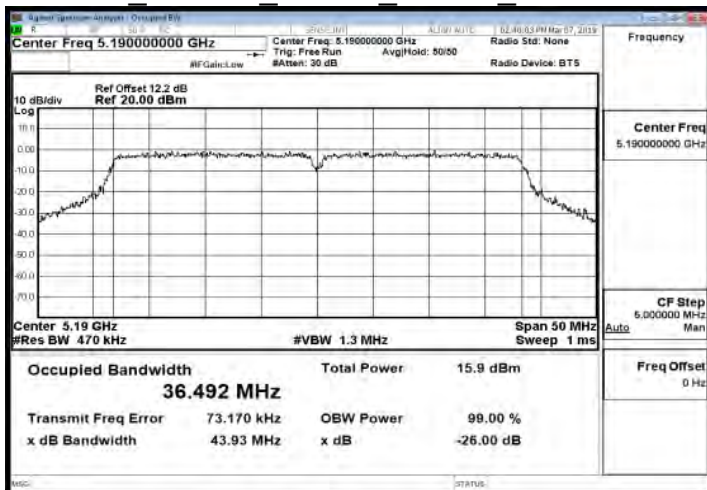
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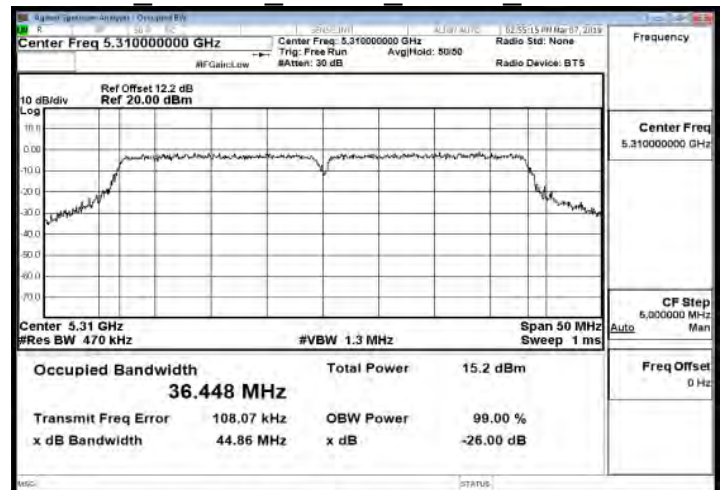
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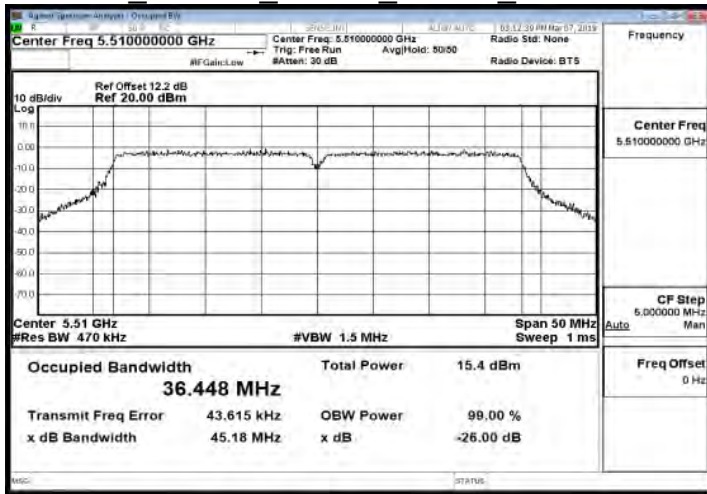


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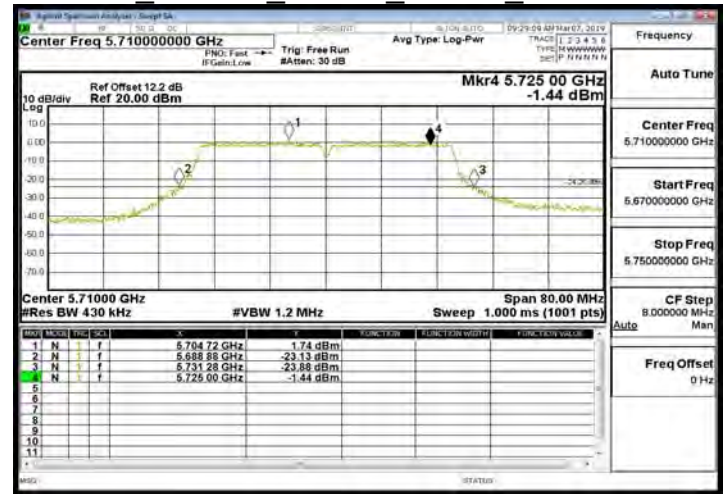
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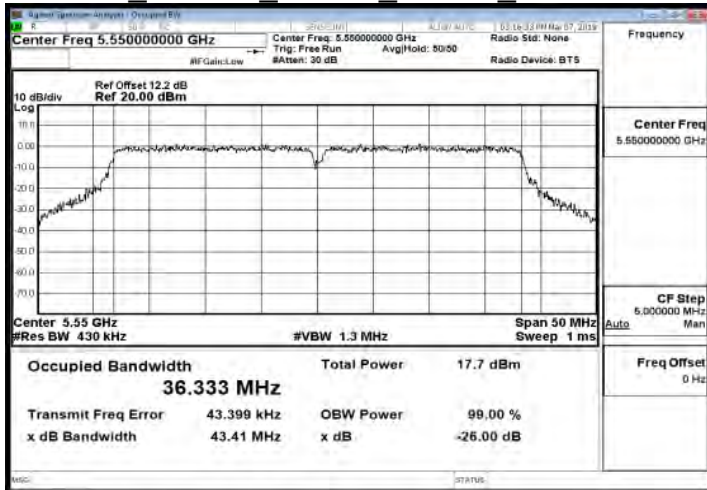
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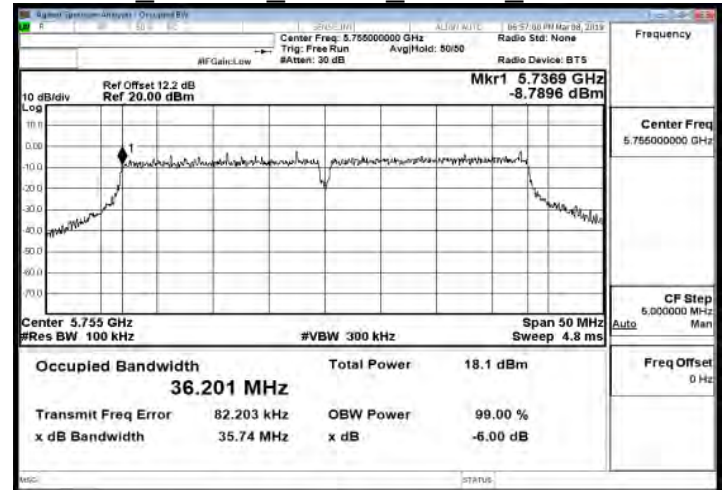
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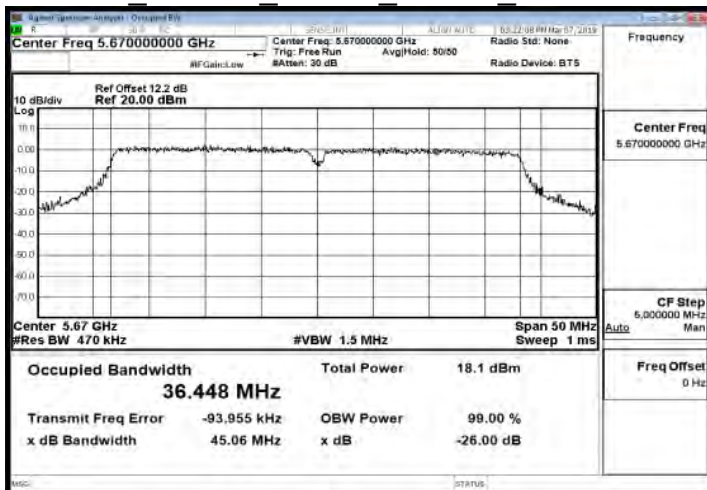
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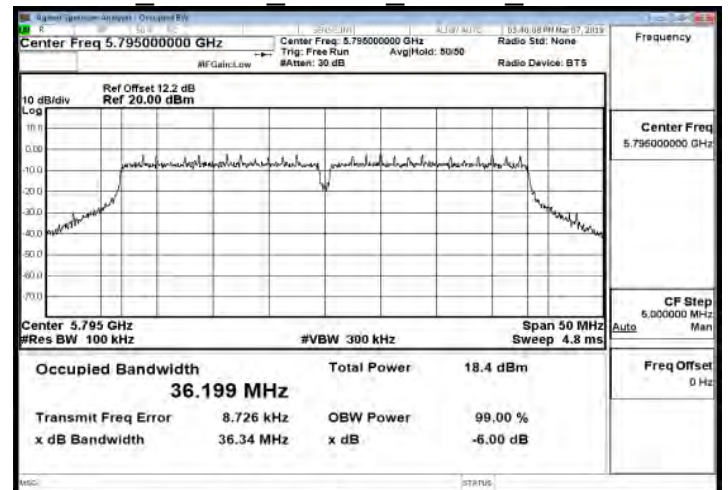
FCC 802.11n 40MHz Chain0 5755MHz



FCC 802.11n 40MHz Chain0 5670MHz



FCC 802.11n 40MHz Chain0 5795MHz

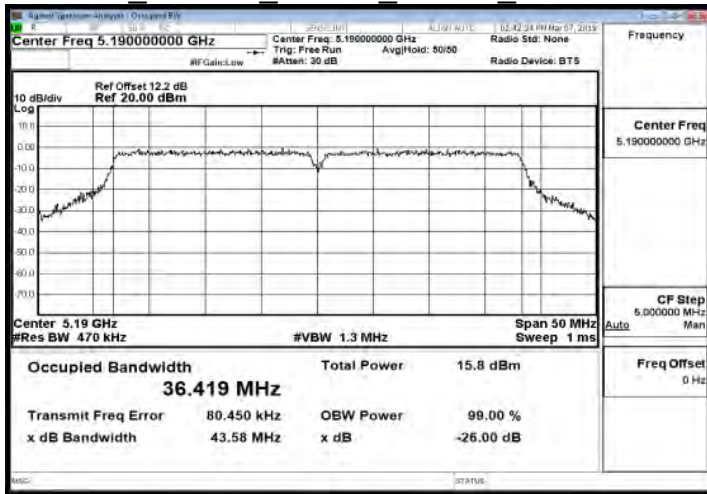


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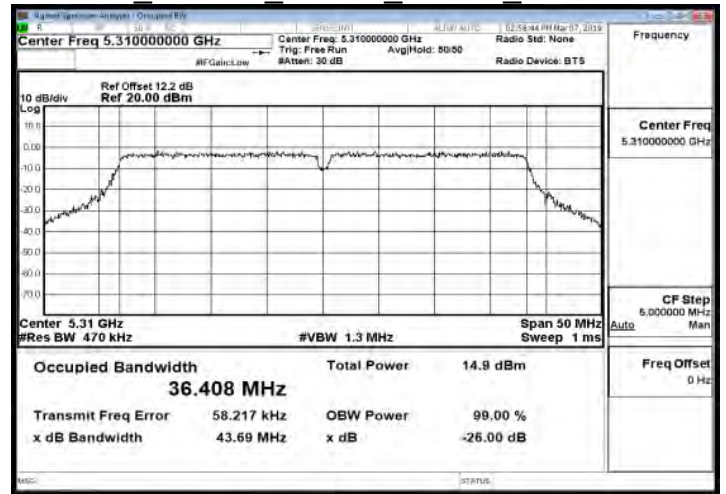
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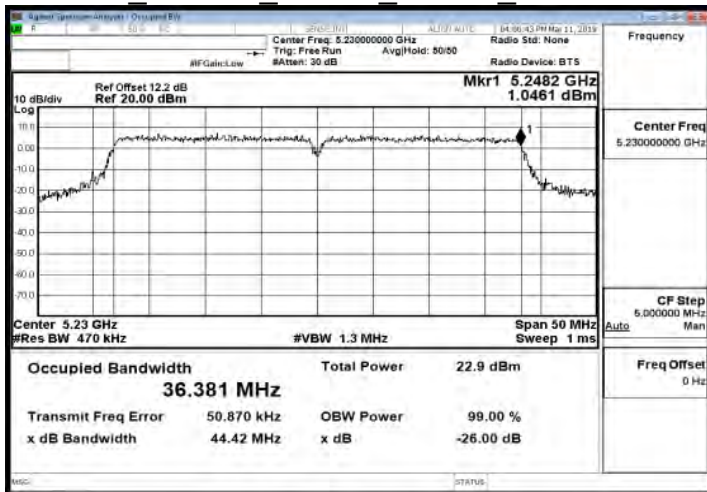
FCC 802.11n 40MHz Chain1 5190MHz



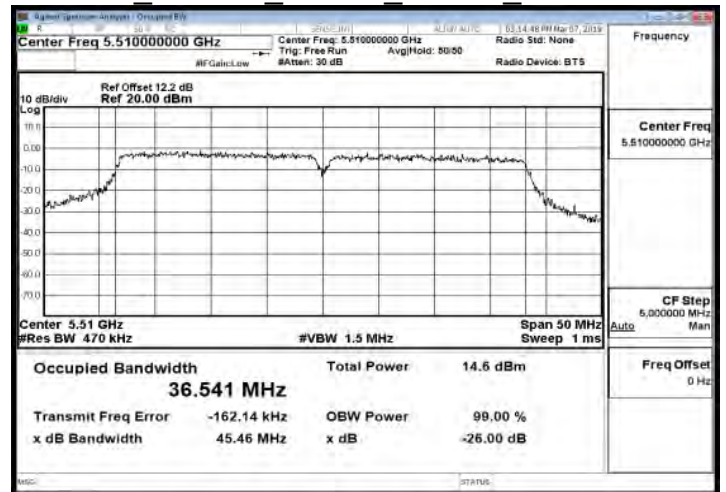
FCC 802.11n 40MHz Chain1 5310MHz



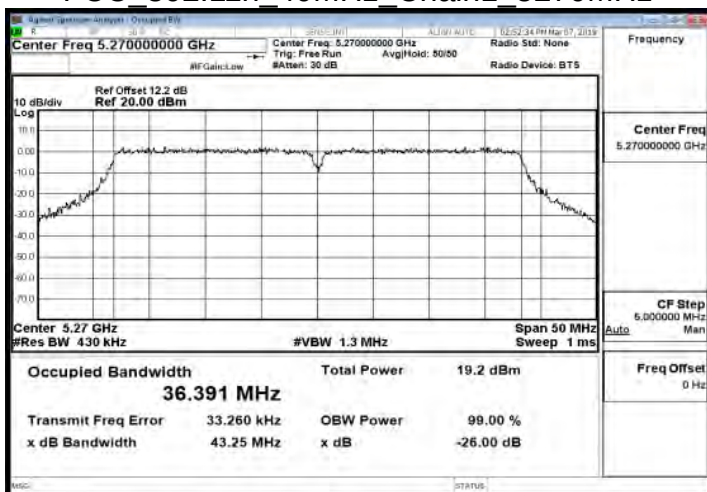
FCC 802.11n 40MHz Chain1 5230MHz



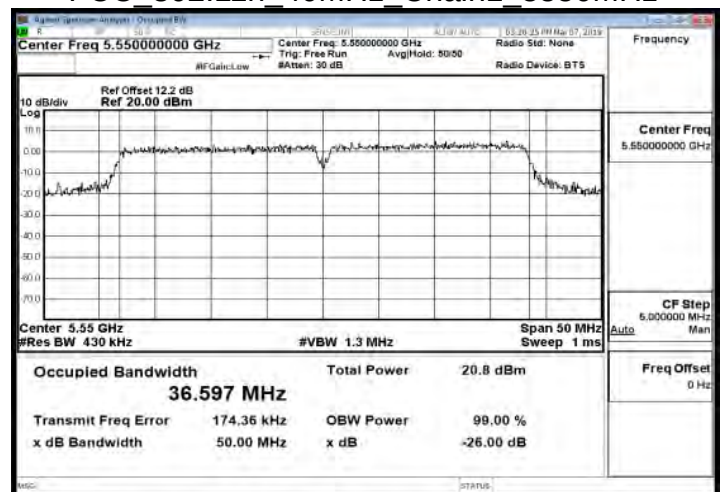
FCC 802.11n 40MHz Chain1 5510MHz



FCC 802.11n 40MHz Chain1 5270MHz



FCC 802.11n 40MHz Chain1 5550MHz

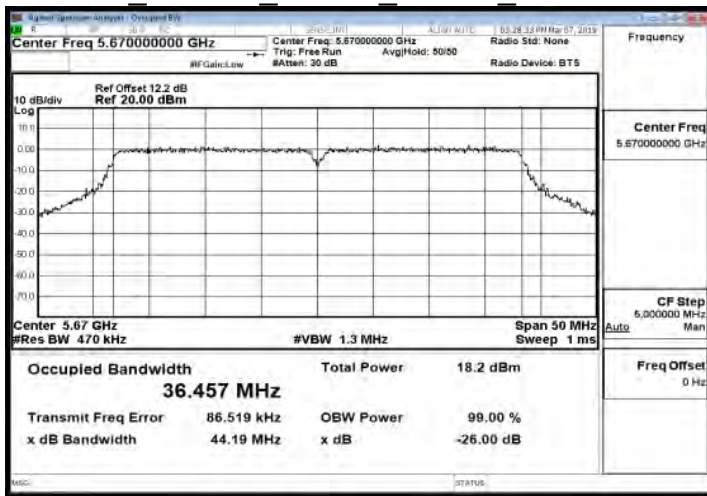


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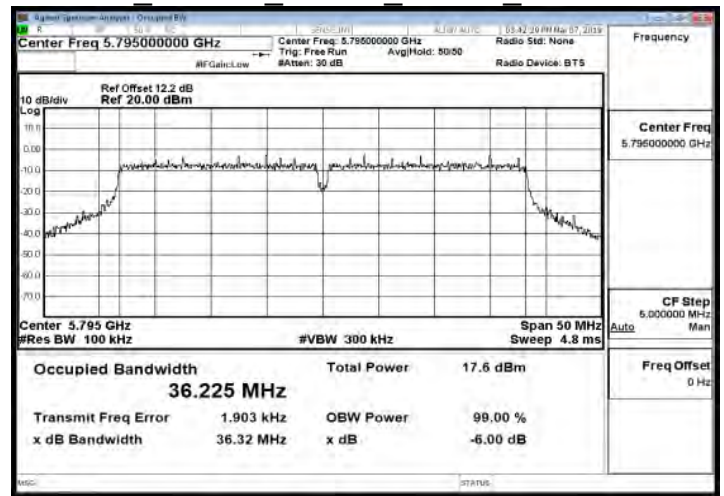
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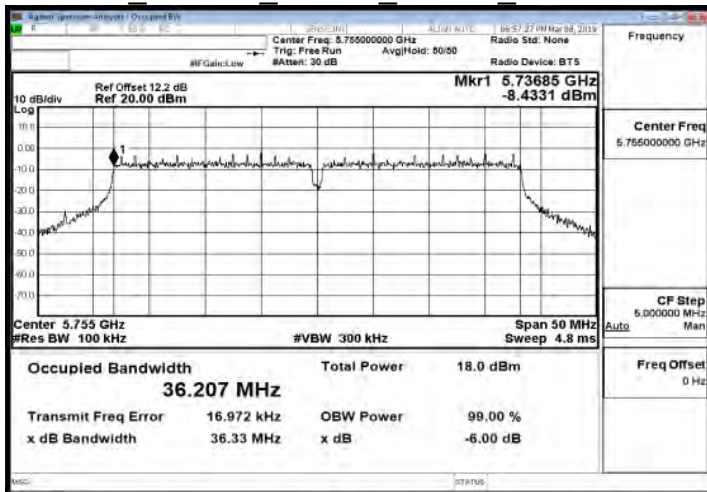
FCC 802.11n 40MHz Chain1 5670MHz



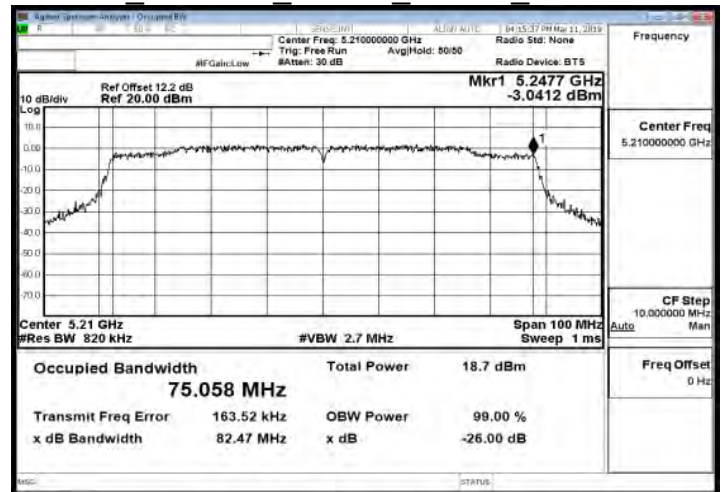
FCC 802.11n 40MHz Chain1 5795MHz



FCC 802.11n 40MHz Chain1 5755MHz



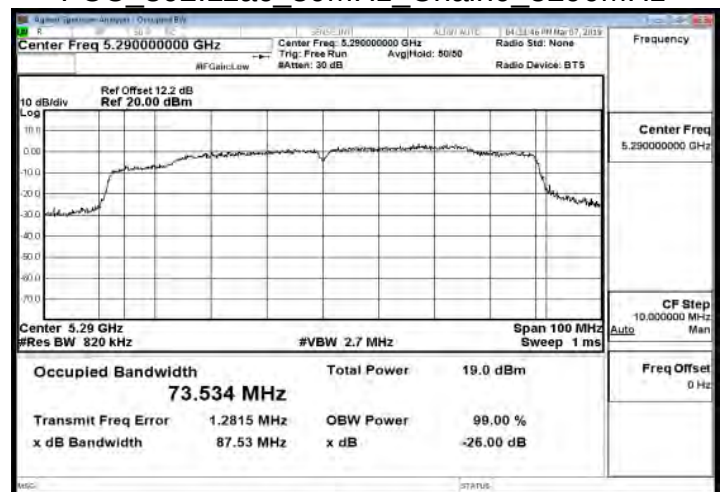
FCC 802.11ac 80MHz Chain0 5210MHz



FCC 802.11n 40MHz Chain1 5710MHz



FCC 802.11ac 80MHz Chain0 5290MHz

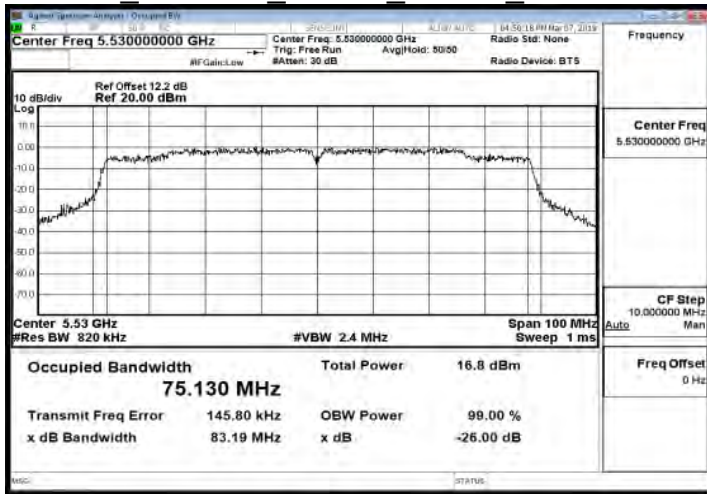


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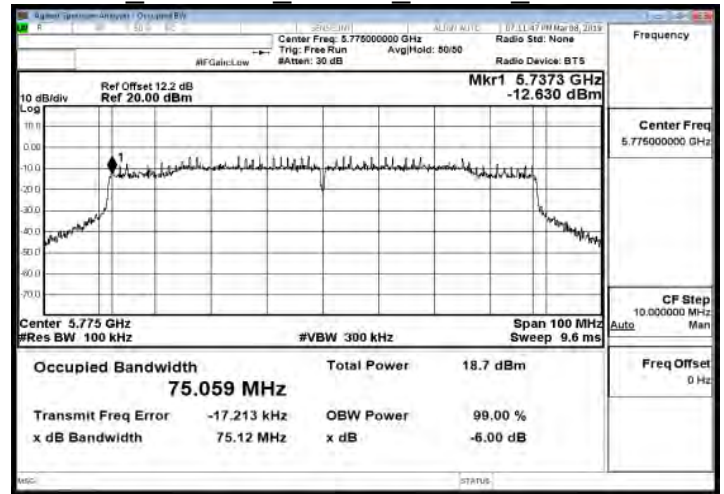
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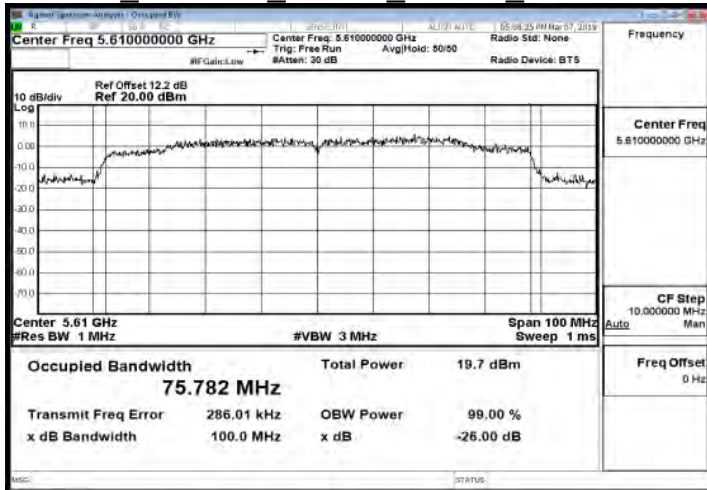
FCC 802.11ac 80MHz Chain0 5530MHz



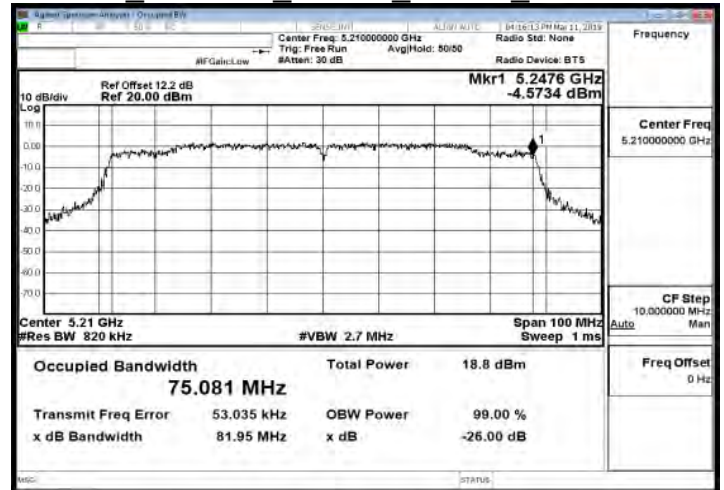
FCC 802.11ac 80MHz Chain0 5775MHz



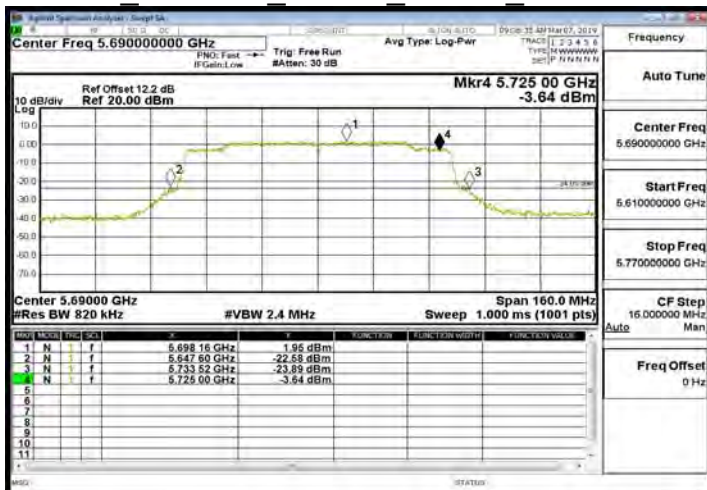
FCC 802.11ac 80MHz Chain0 5610MHz



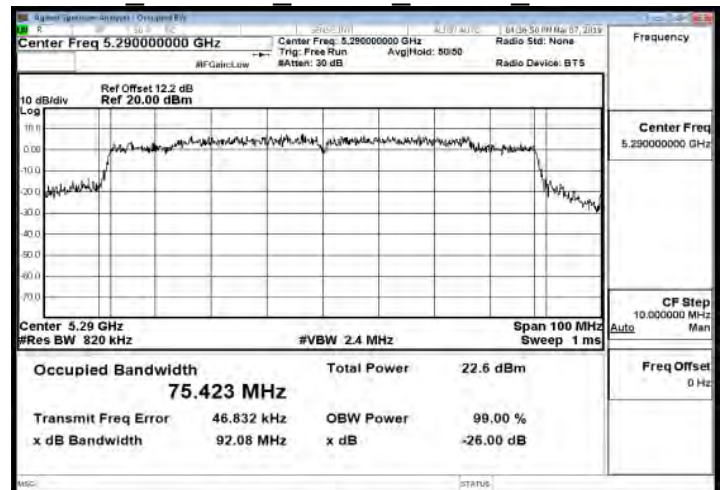
FCC 802.11ac 80MHz Chain1 5210MHz



FCC 802.11ac 80MHz Chain0 5690MHz



FCC 802.11ac 80MHz Chain1 5290MHz

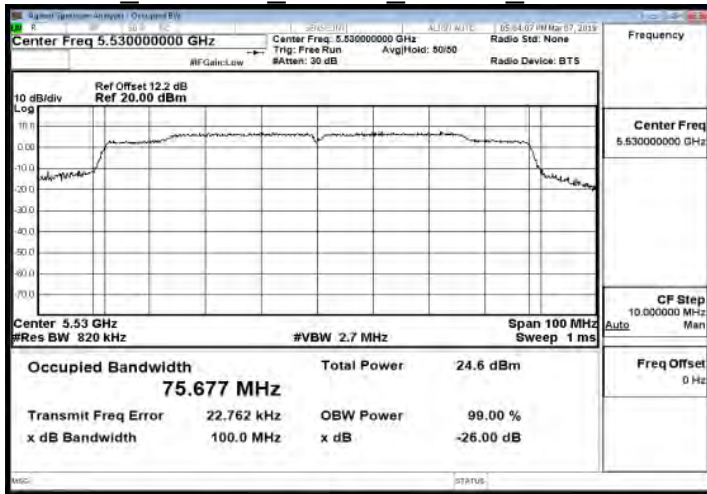


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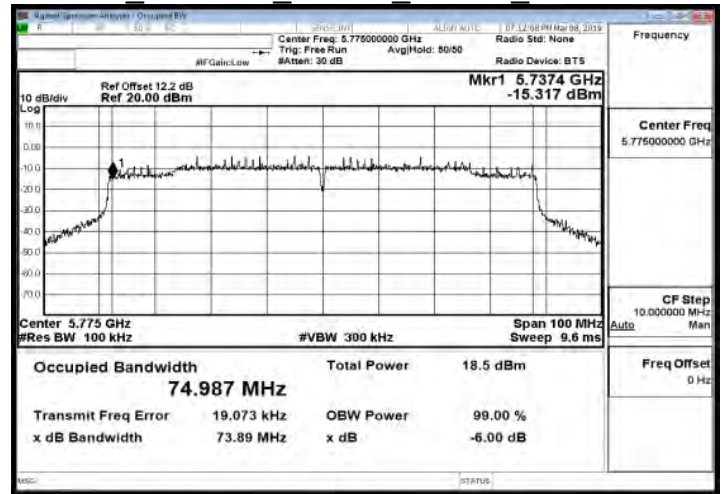
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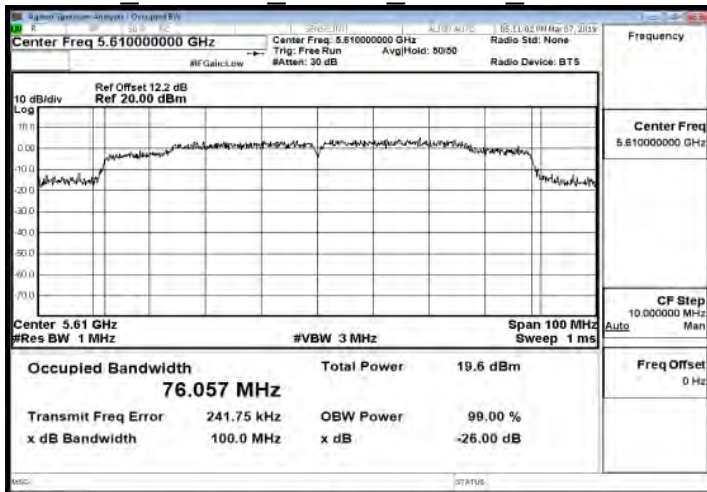
FCC 802.11ac 80MHz Chain1 5530MHz



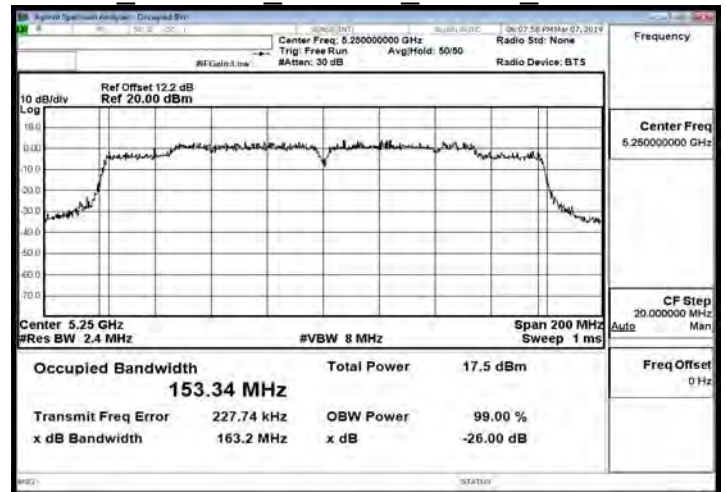
FCC 802.11ac 80MHz Chain1 5775MHz



FCC 802.11ac 80MHz Chain1 5610MHz



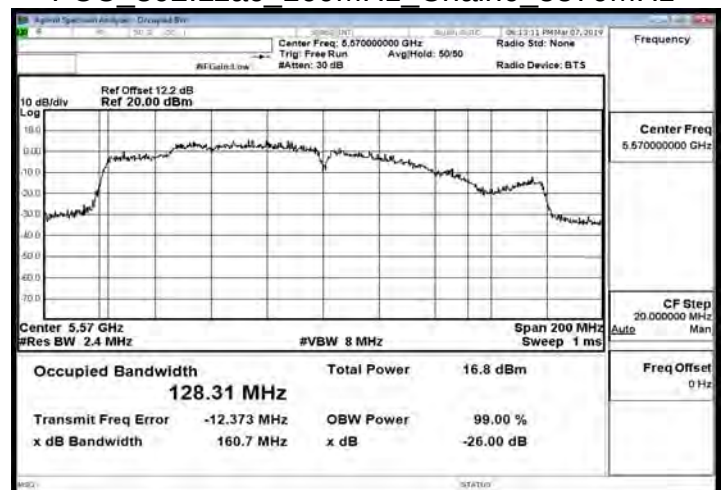
FCC 802.11ac 160MHz Chain0 5250MHz



FCC 802.11ac 80MHz Chain1 5690MHz



FCC 802.11ac 160MHz Chain0 5570MHz

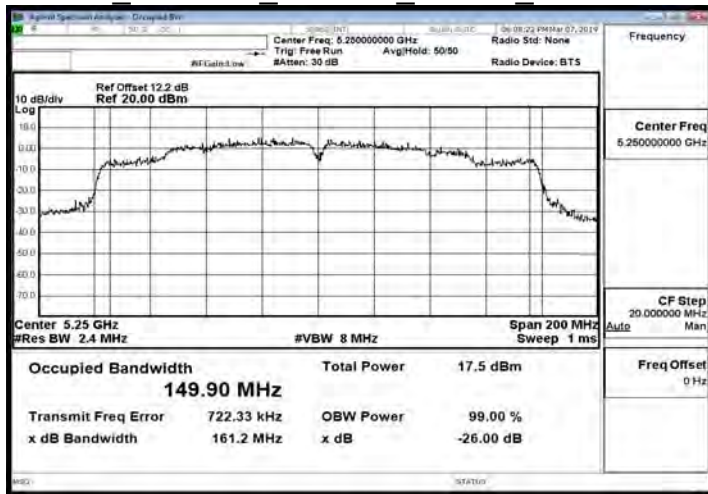


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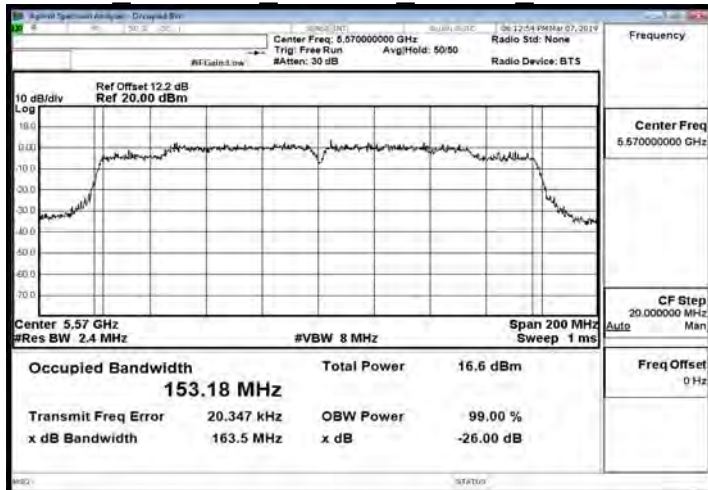
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FCC 802.11ac 160MHz Chain1 5250MHz



FCC 802.11ac 160MHz Chain1 5570MHz



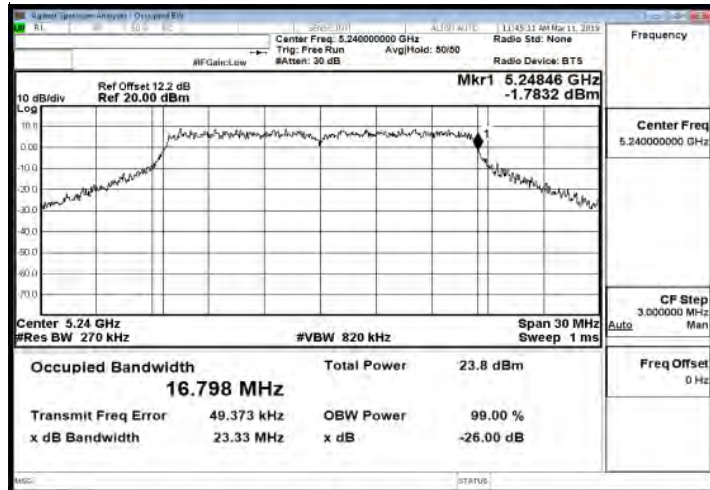
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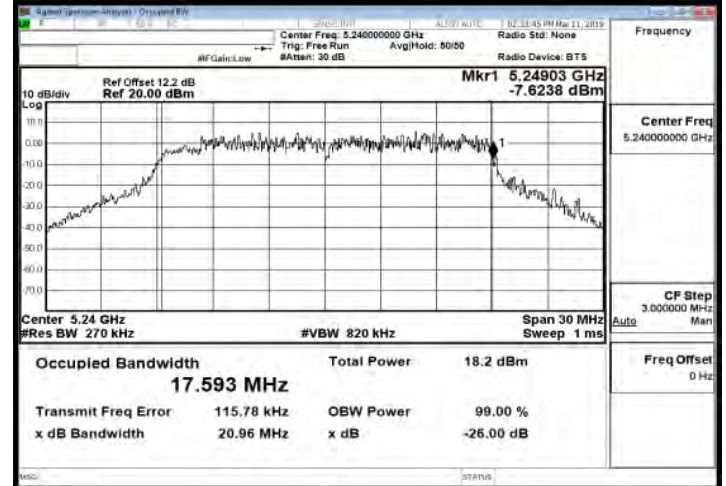
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99% BW to prove that all signals in band I is
no over band U-NII-1

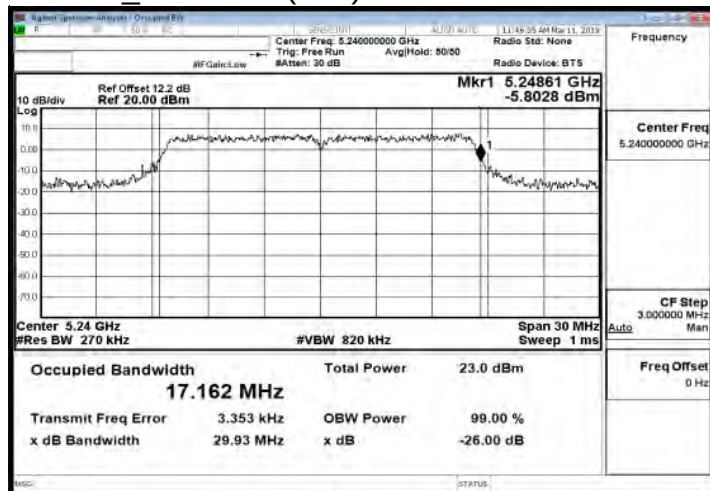
802.11a_5240MHz (Main)



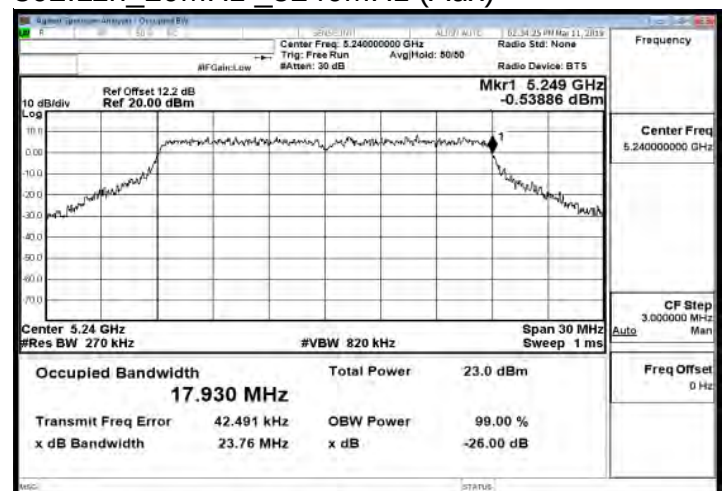
802.11n_20MHz_5240MHz (Main)



802.11a_5240MHz (Aux)



802.11n_20MHz_5240MHz (Aux)

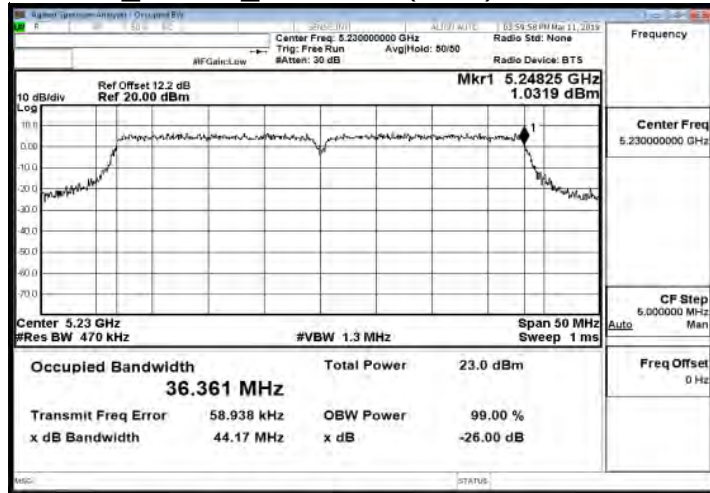


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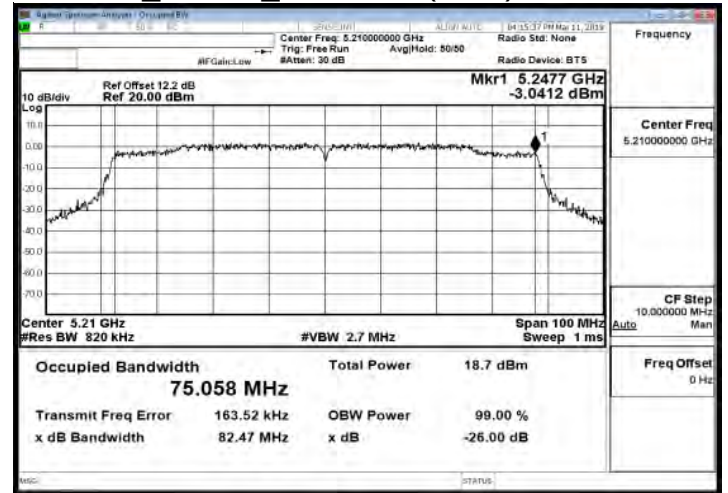
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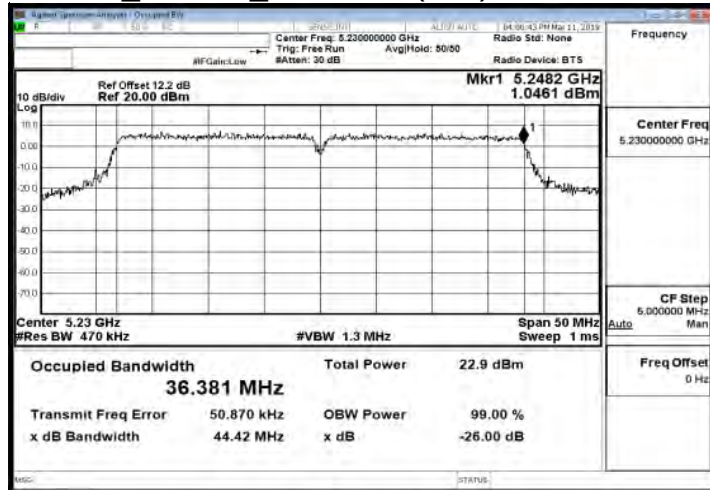
802.11n 40MHz_5230MHz (Main)



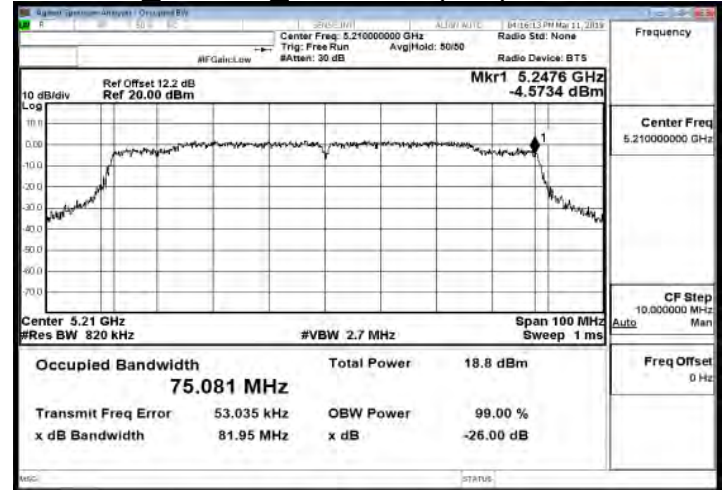
802.11ac 80MHz_5210MHz (Main)



802.11n 40MHz_5230MHz (Aux)



802.11ac 80MHz_5210MHz (Aux)



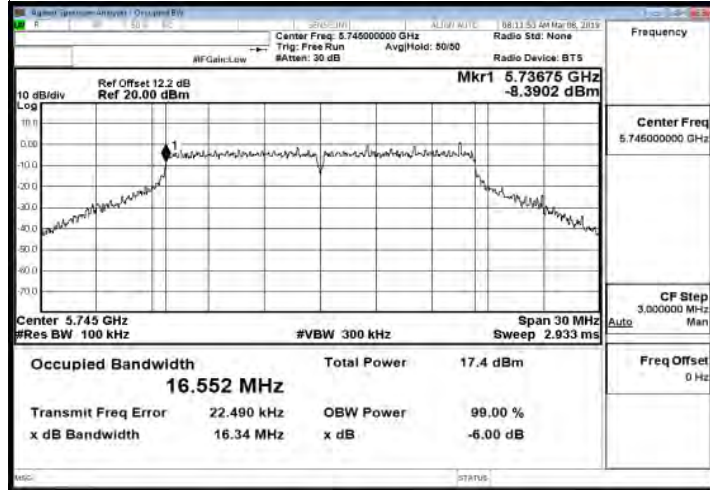
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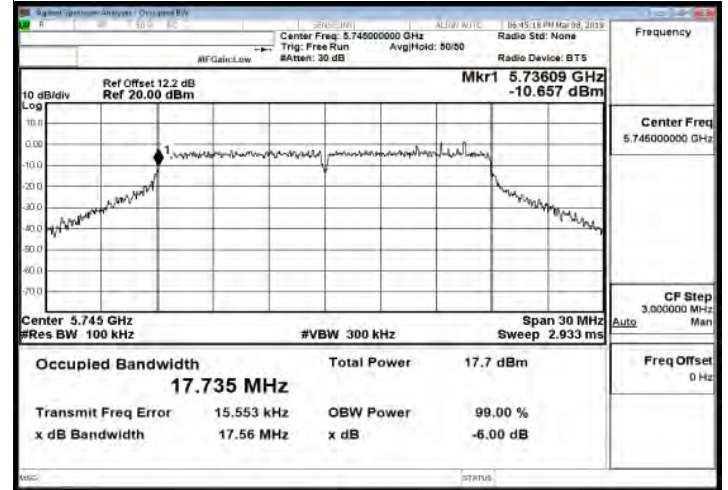
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99% BW to prove that all signals in band I is
no over band U-NII-3

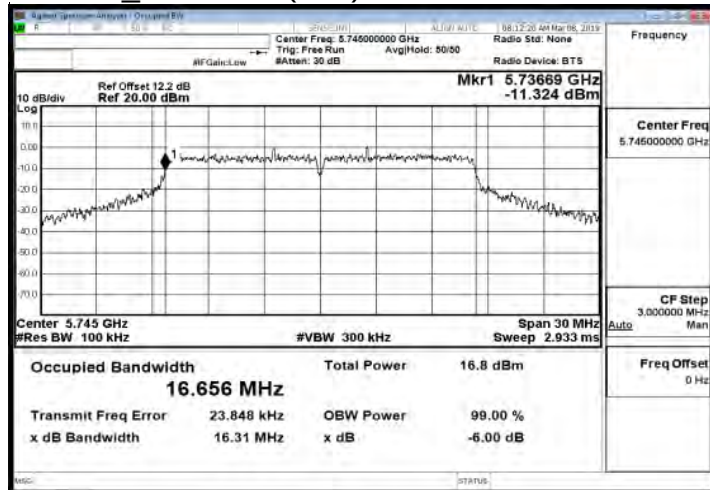
802.11a_5745MHz (Main)



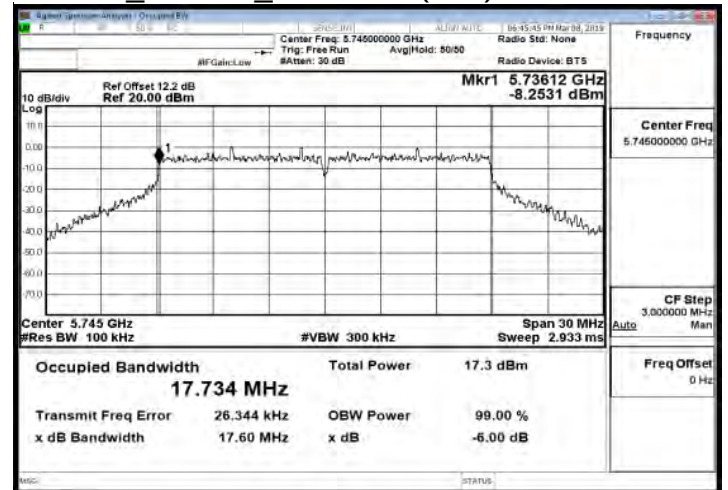
802.11n_20MHz_5745MHz (Main)



802.11a_5745MHz (Aux)



802.11n_20MHz_5745MHz (Aux)

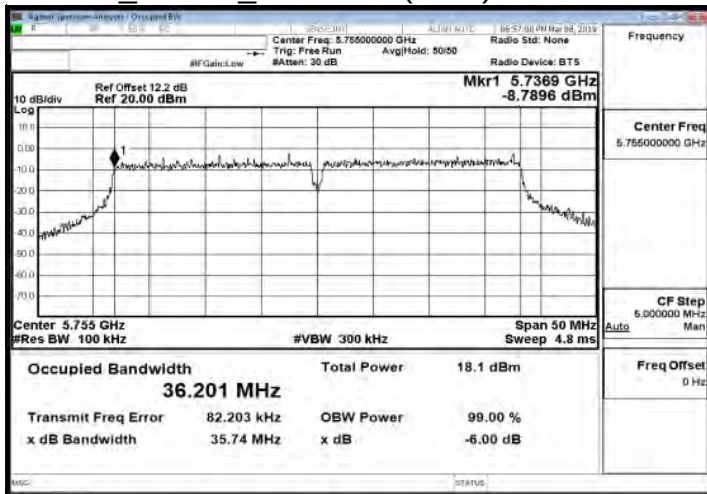


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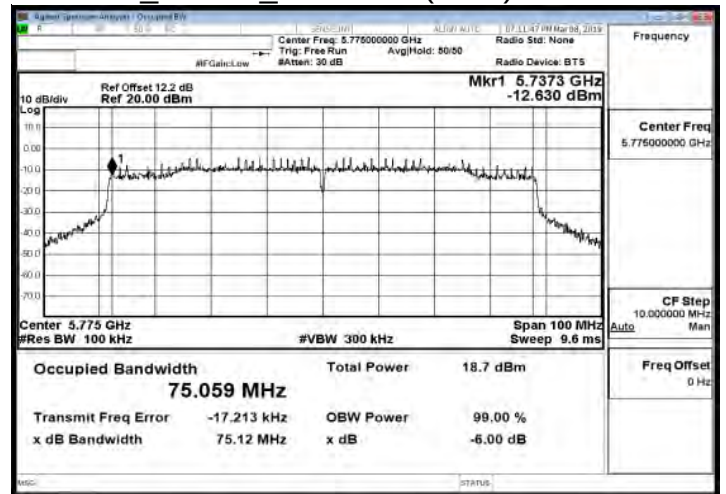
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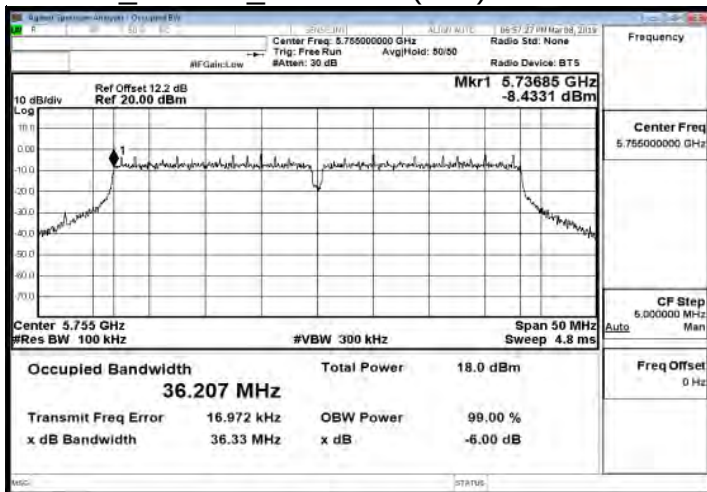
802.11n_40MHz_5755MHz (Main)



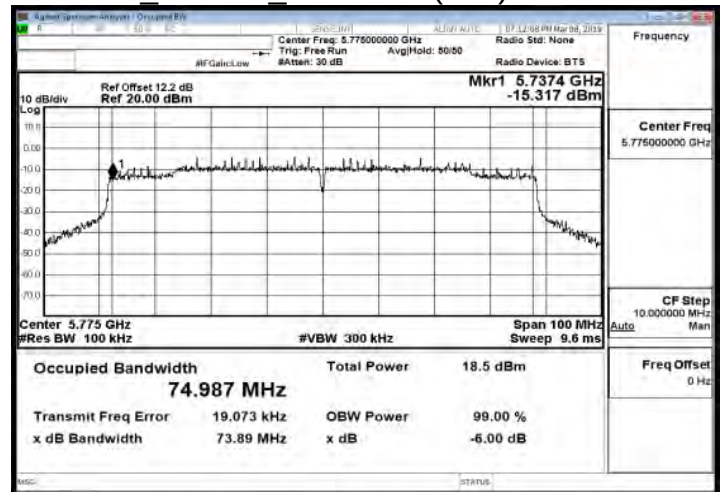
802.11ac_80MHz_5775MHz (Main)



802.11n_40MHz_5755MHz (Aux)



802.11ac_80MHz_5775MHz (Aux)

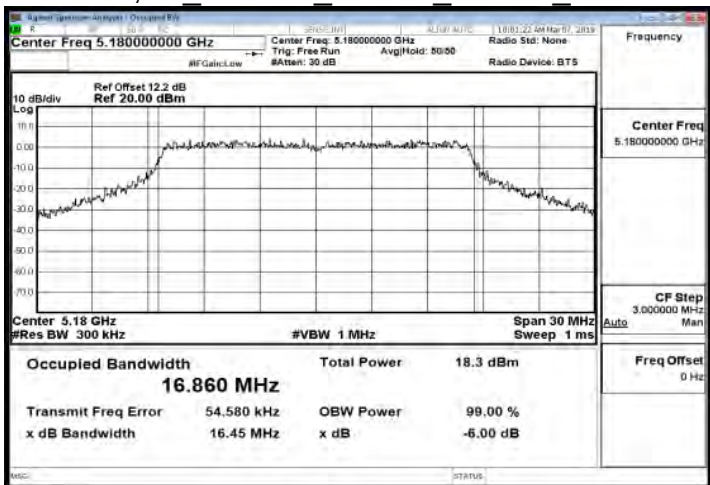


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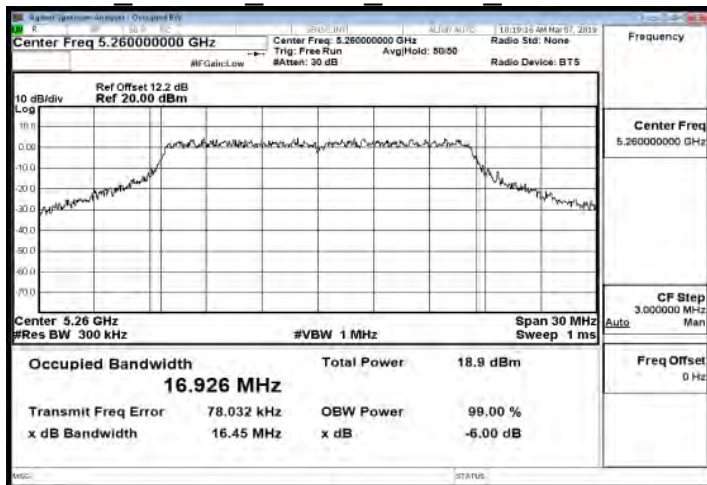
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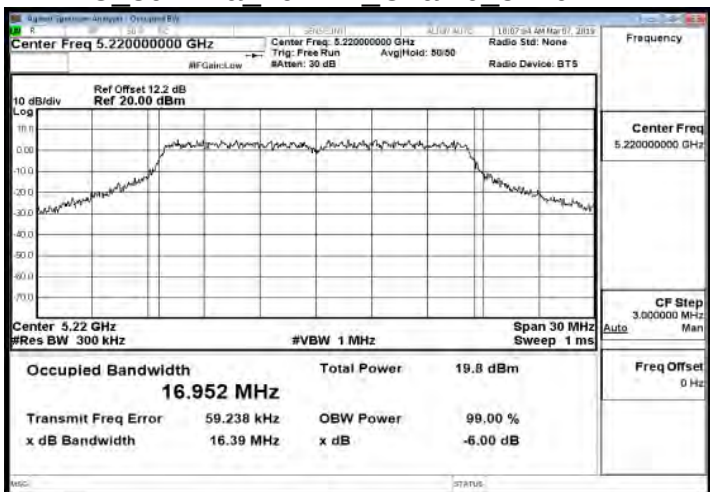
For 99%, IC 802.11a 20MHz Chain0 5180MHz



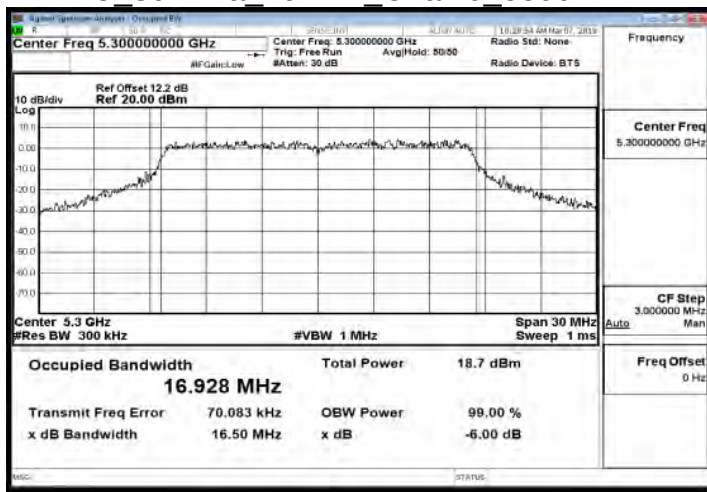
IC 802.11a 20MHz Chain0 5260MHz



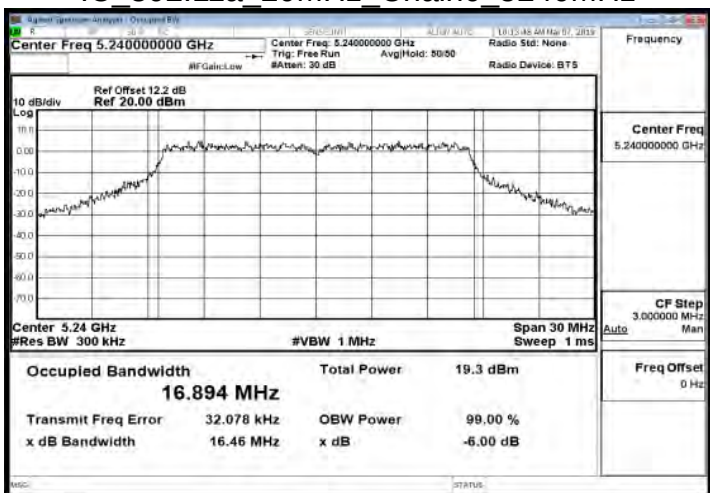
IC 802.11a 20MHz Chain0 5220MHz



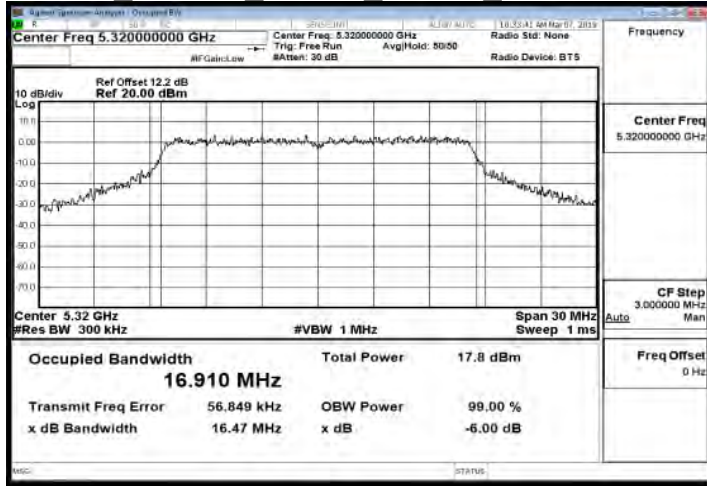
IC 802.11a 20MHz Chain0 5300MHz



IC 802.11a 20MHz Chain0 5240MHz



IC 802.11a 20MHz Chain0 5320MHz

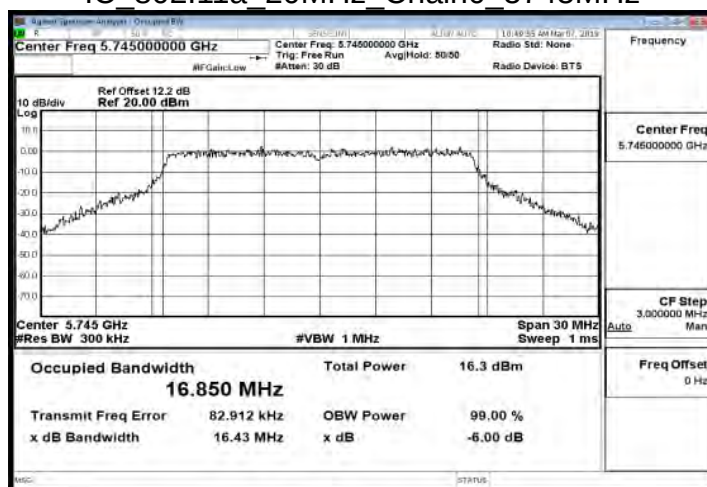


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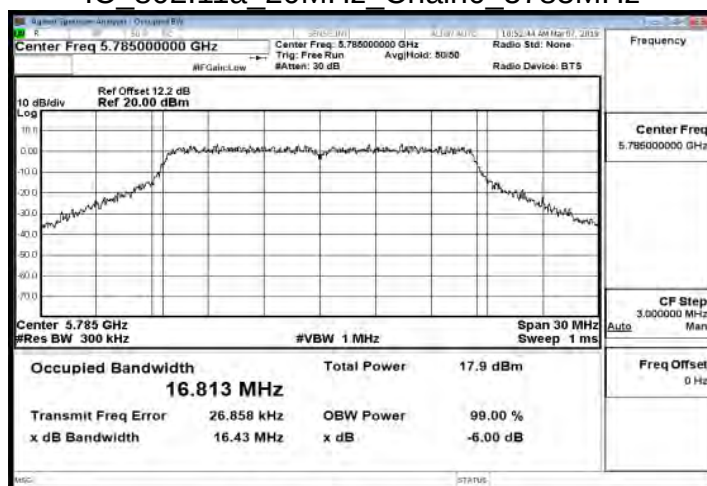
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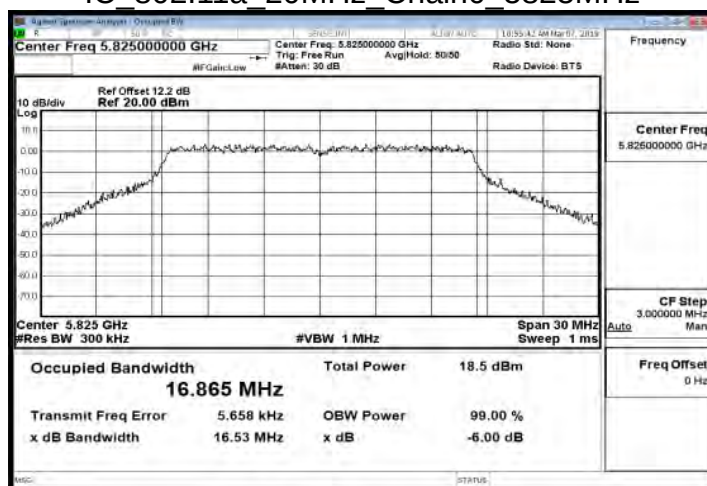
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IC 802.11a 20MHz Chain0 5785MHz



IC 802.11a 20MHz Chain0 5825MHz

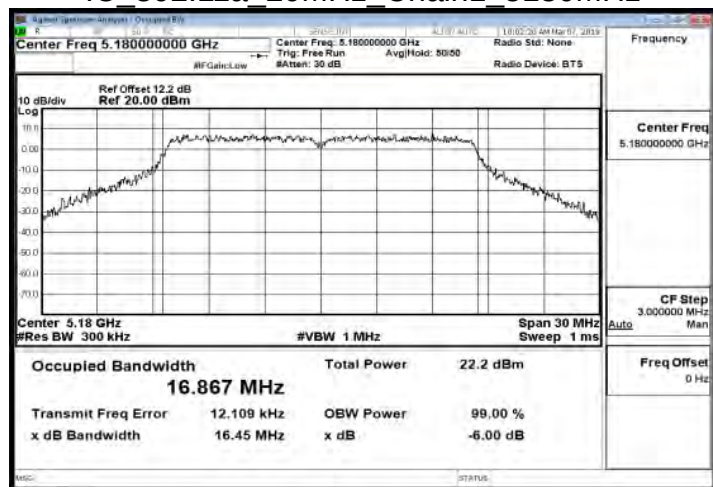


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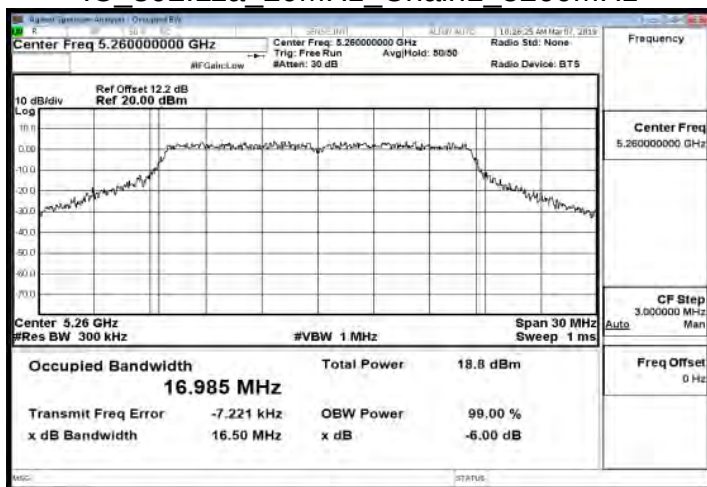
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程智科技股份有限公司

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t:(886-2) 2299-9720 f:(886-2) 2298-1882 www.sgs.tw www.ccsrf.com

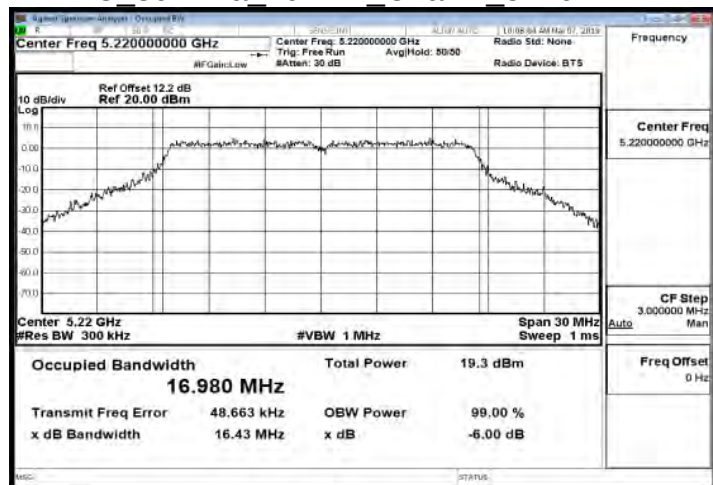
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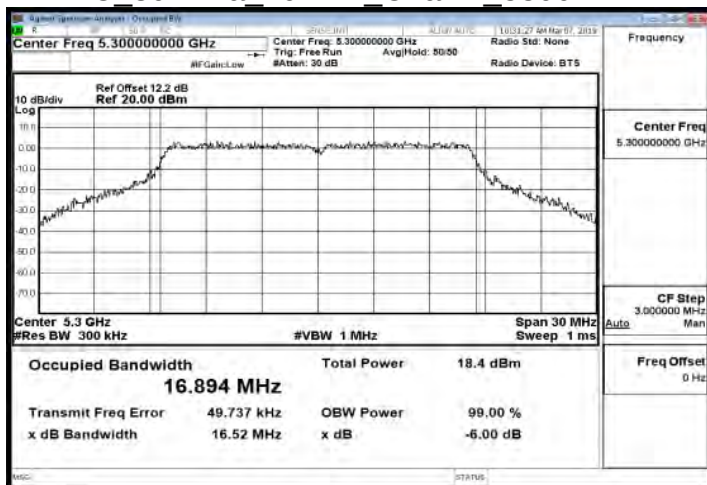
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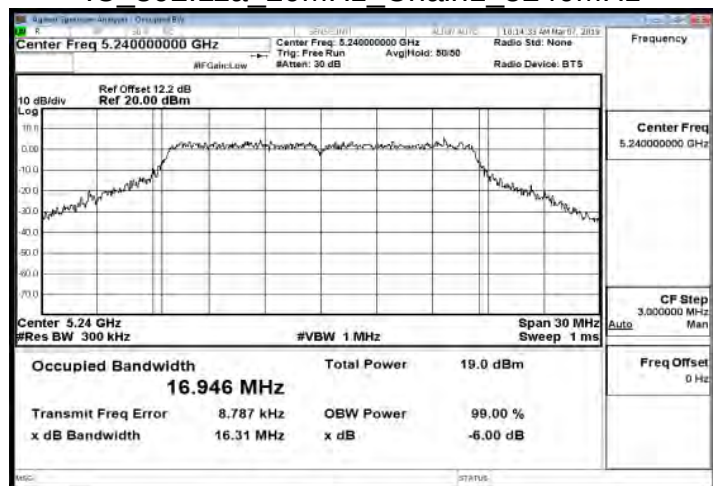
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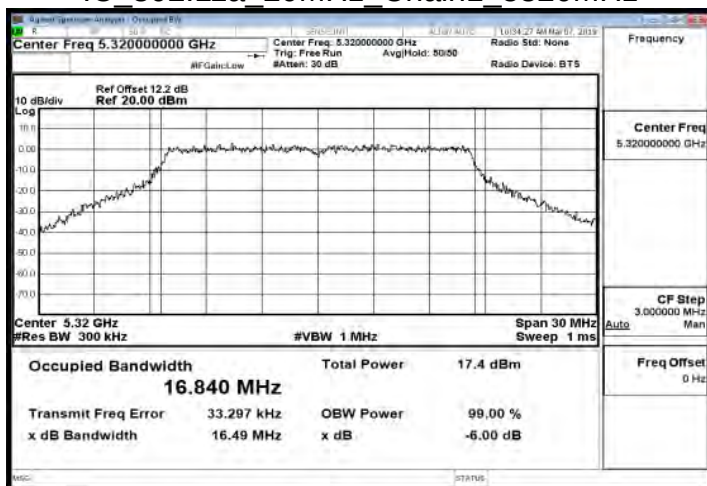
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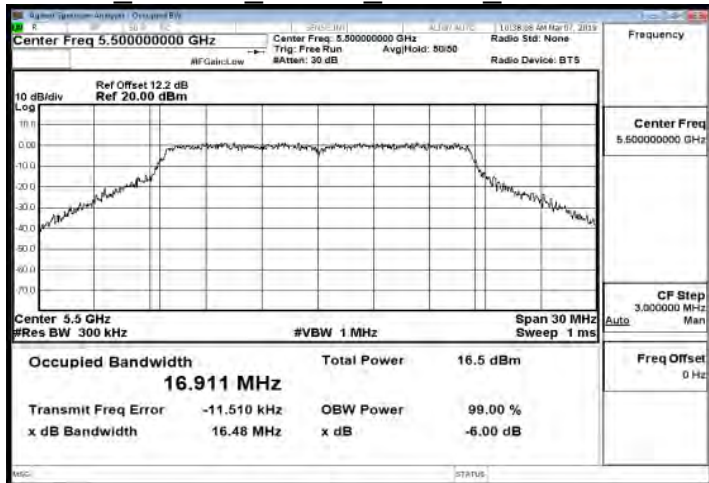


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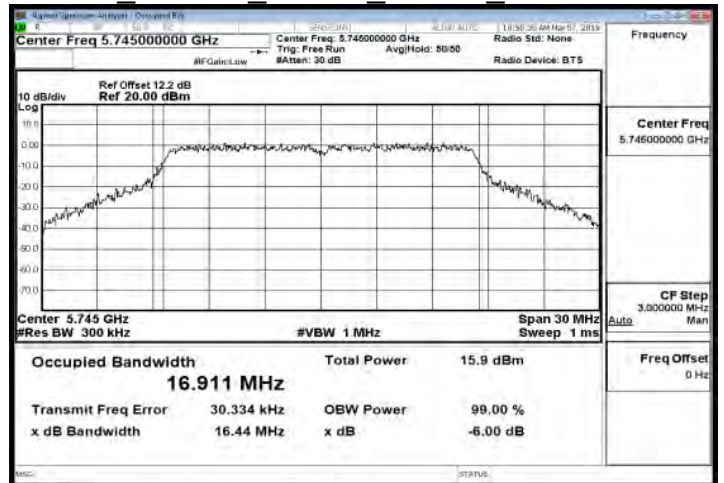
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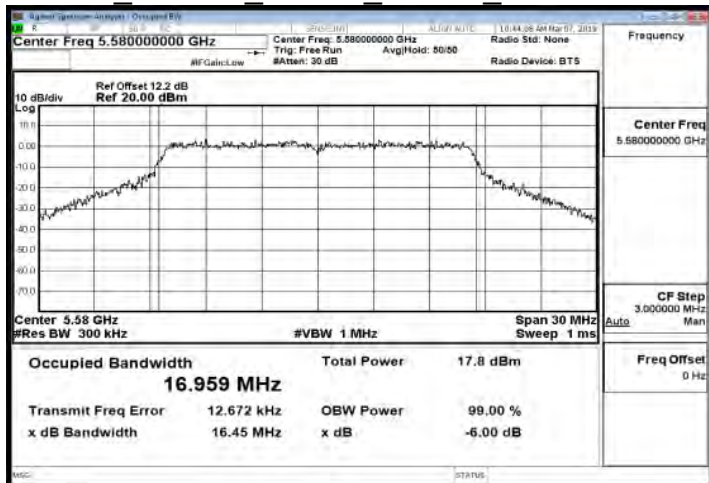
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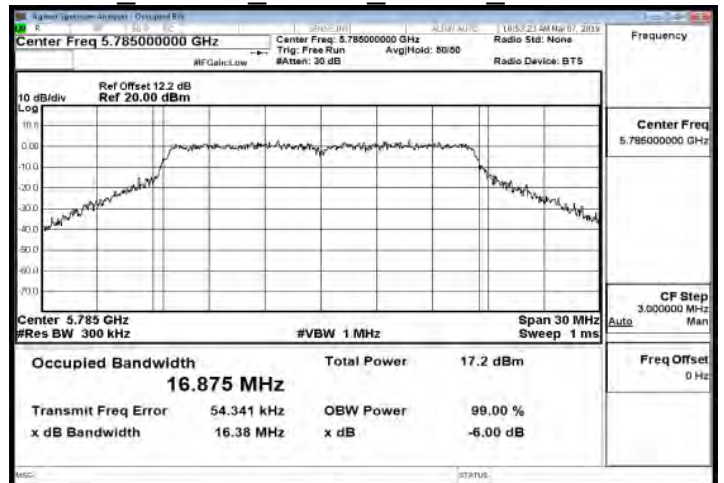
IC 802.11a 20MHz Chain1 5745MHz



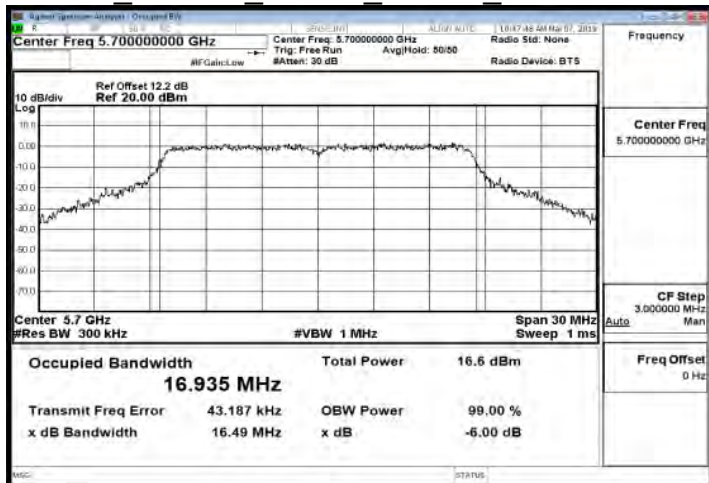
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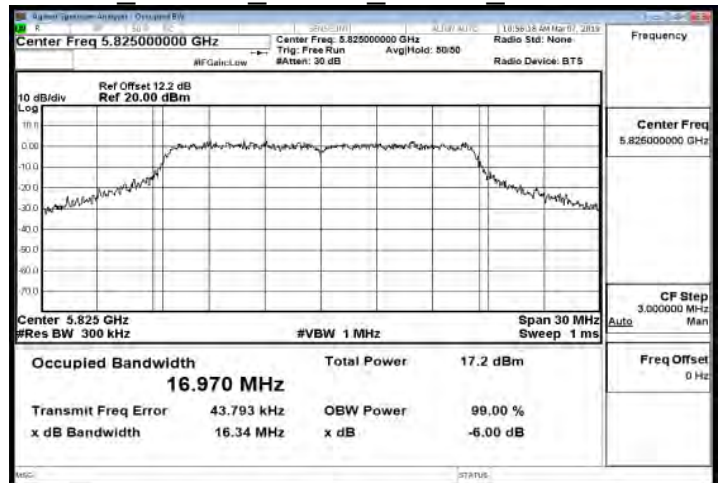
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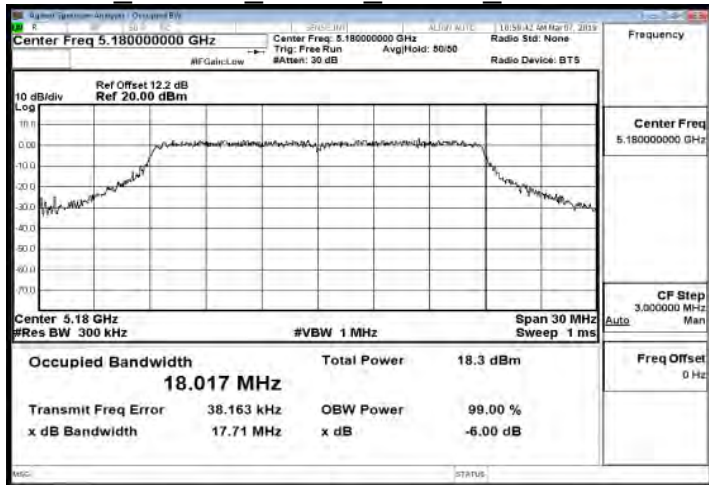


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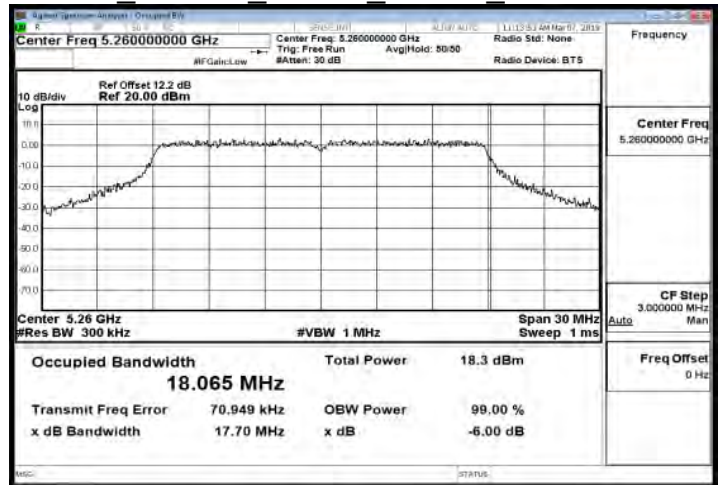
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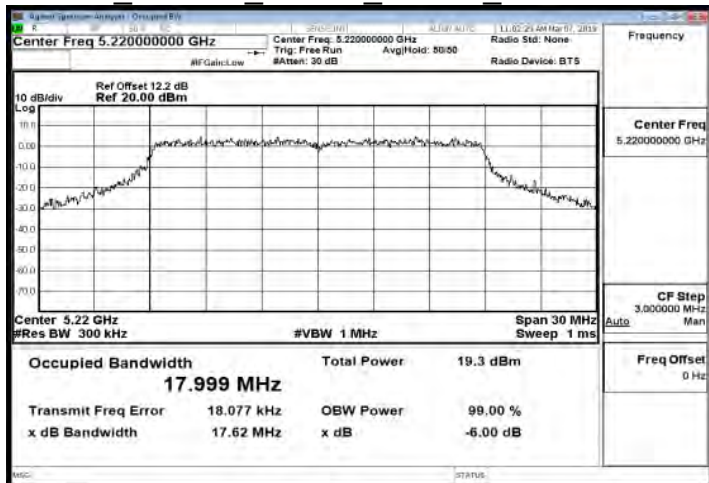
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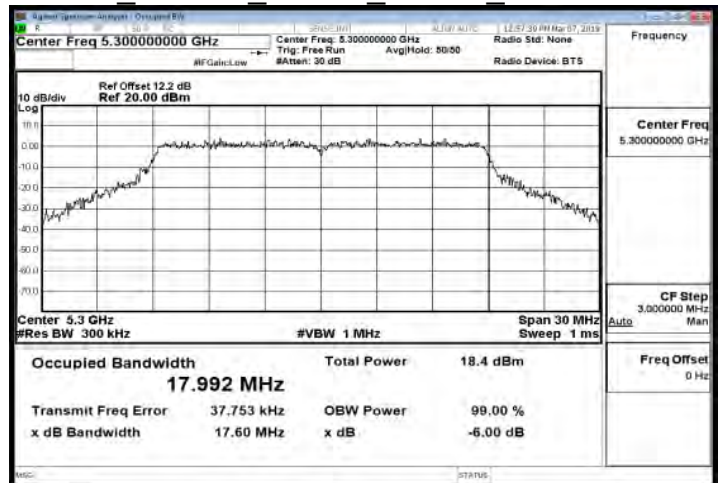
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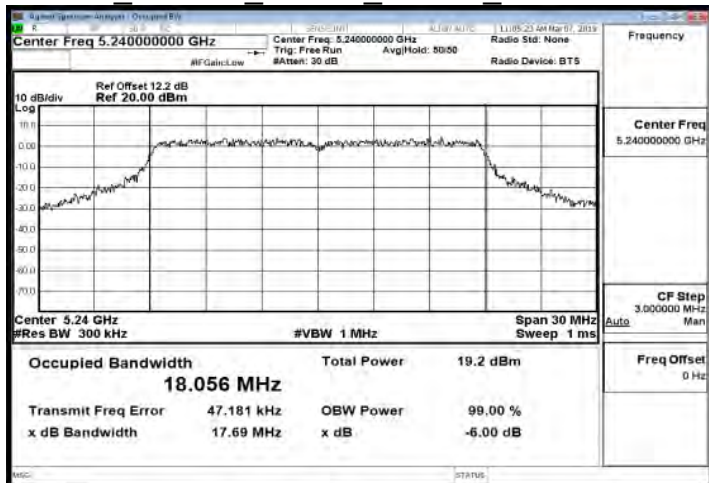
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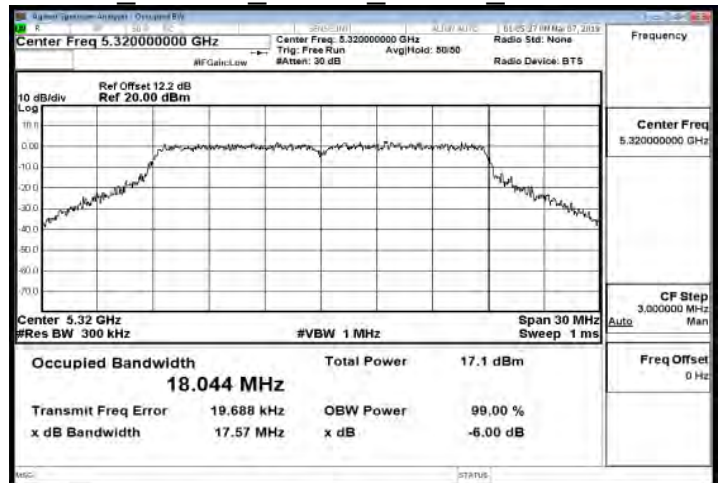
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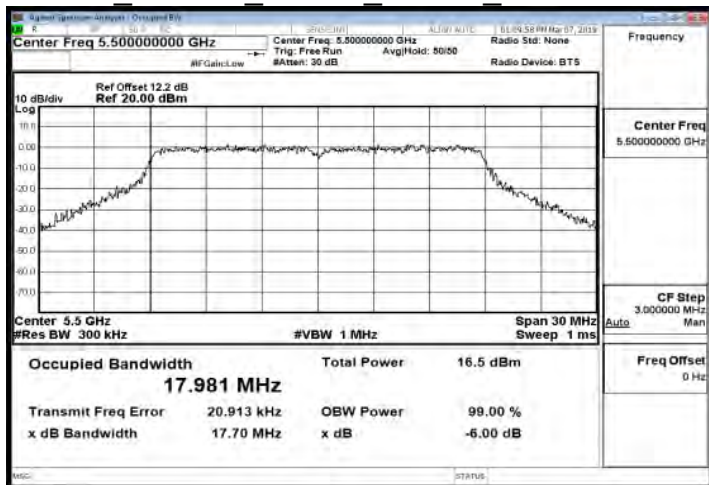


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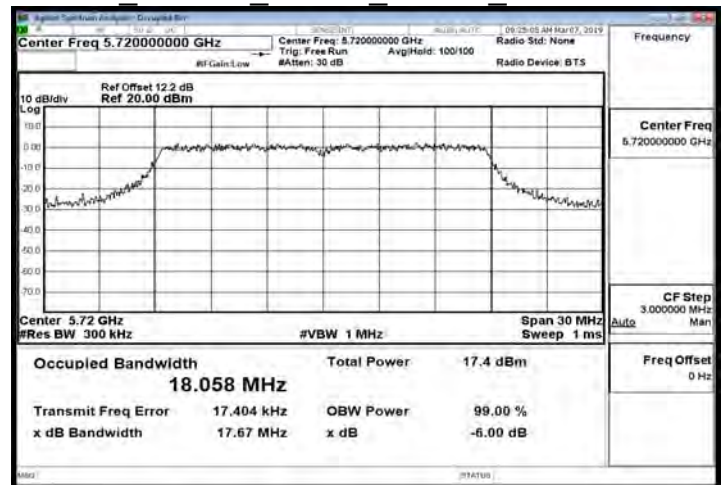
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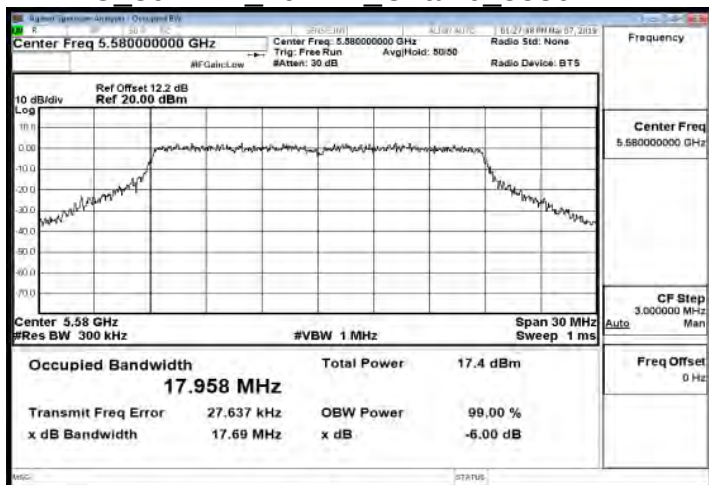
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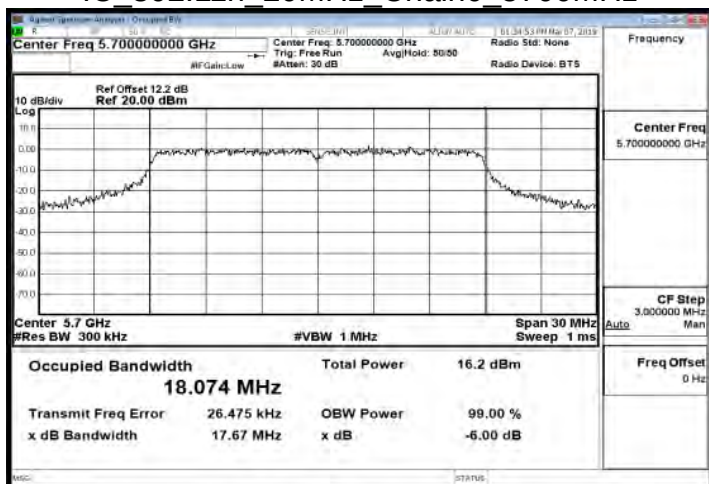
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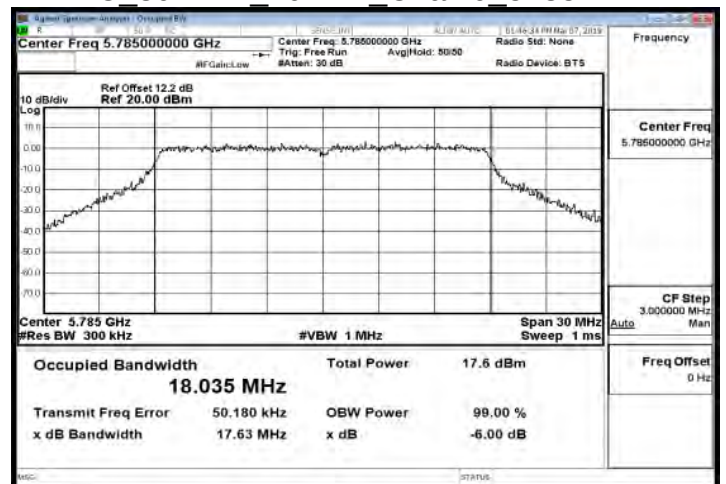
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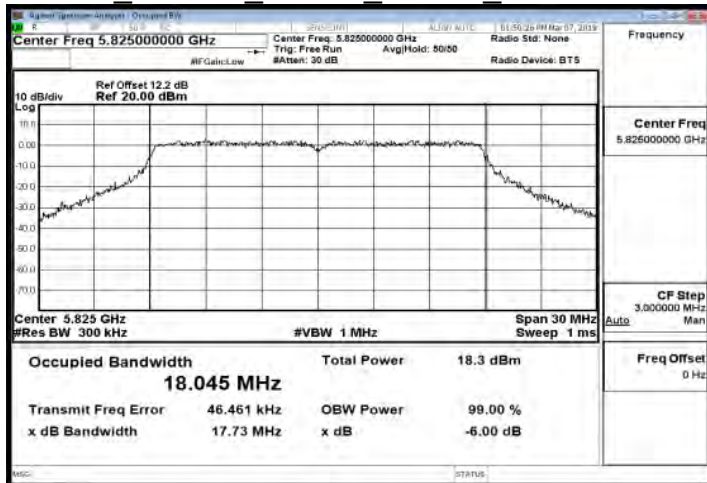


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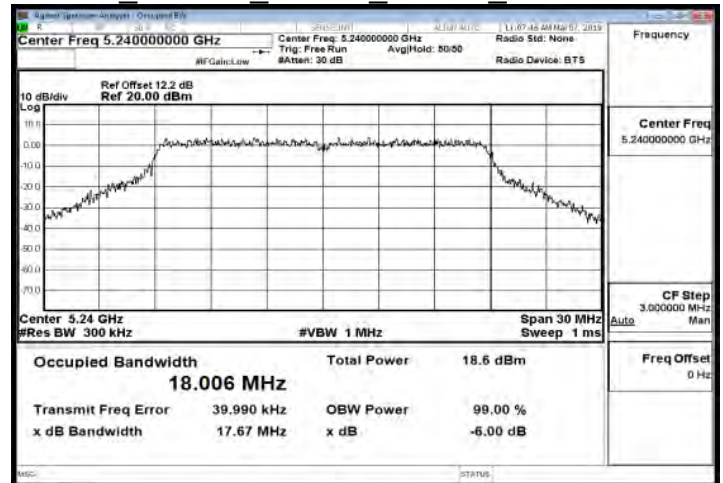
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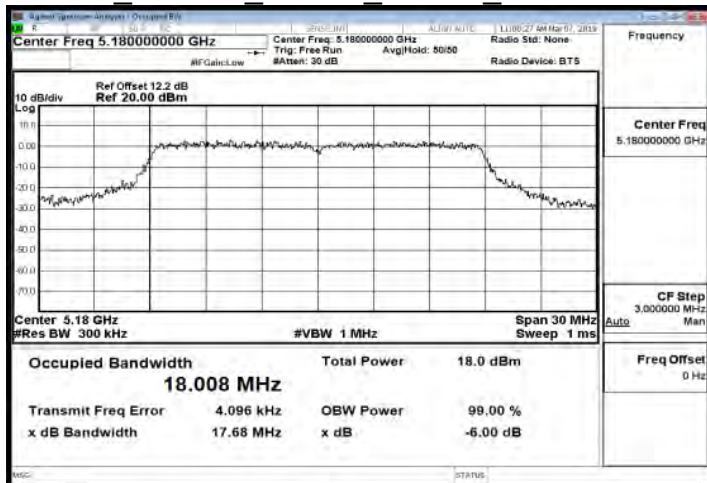
IC 802.11n 20MHz Chain0 5825MHz



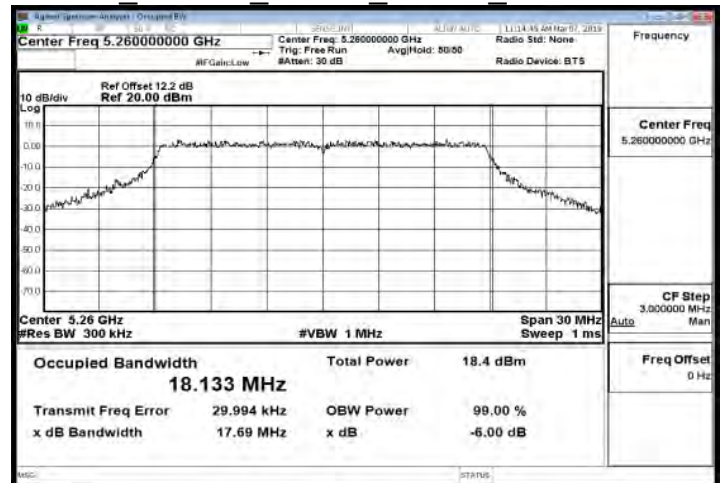
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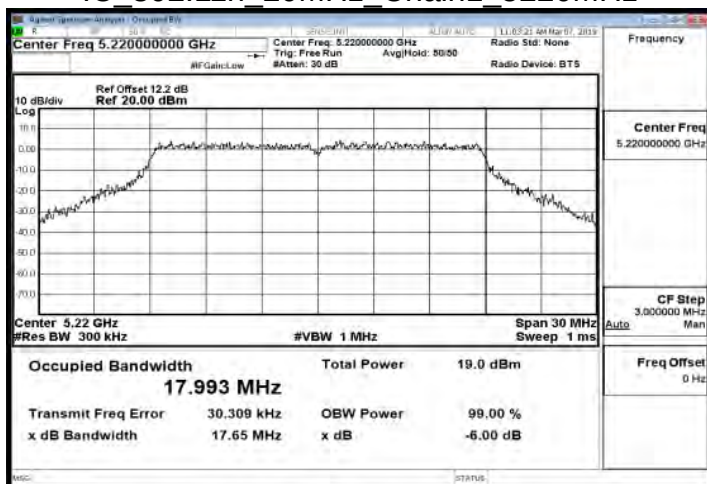
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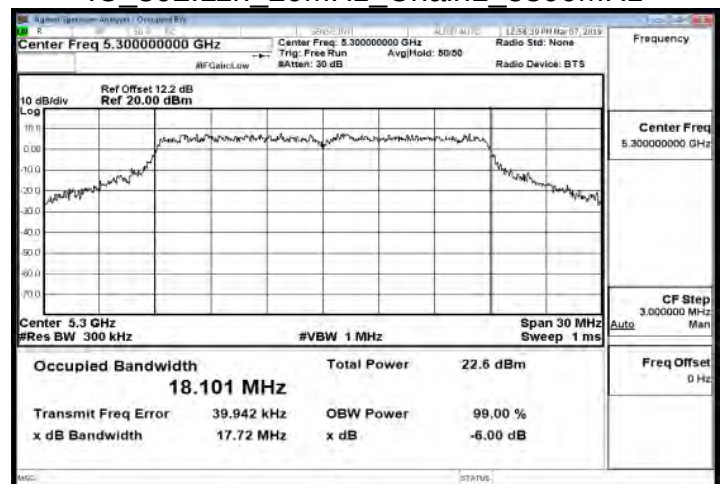
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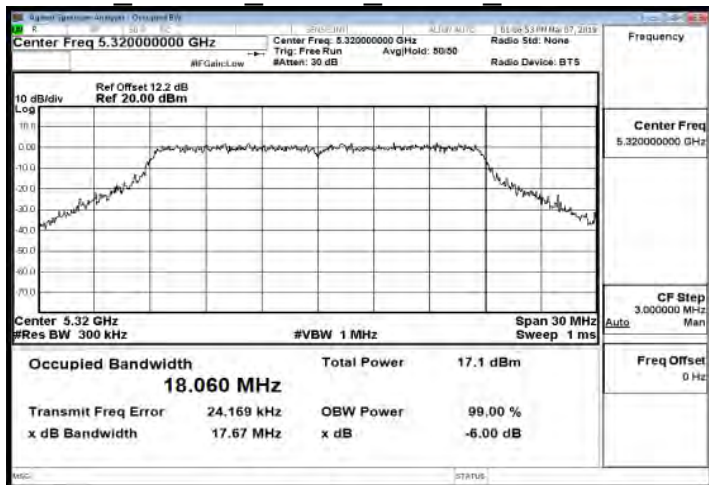


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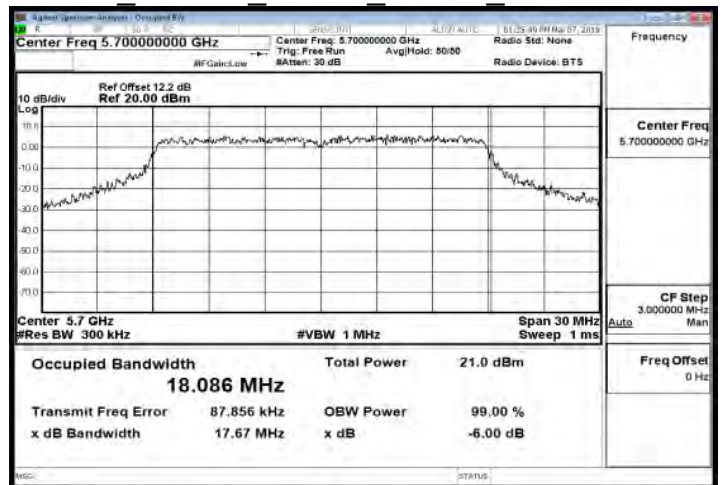
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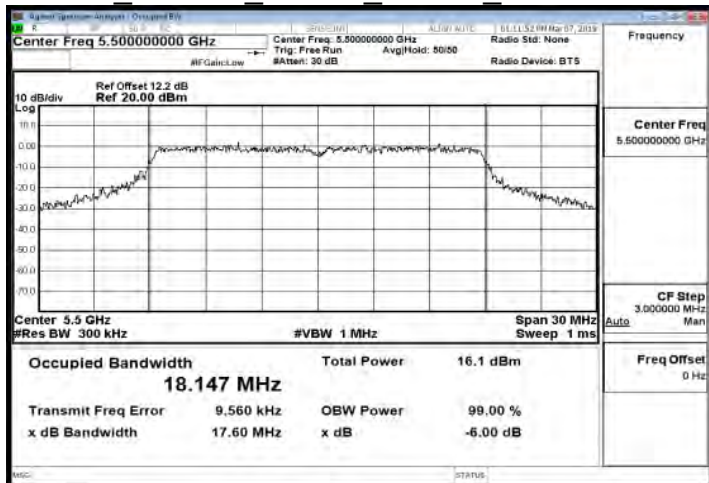
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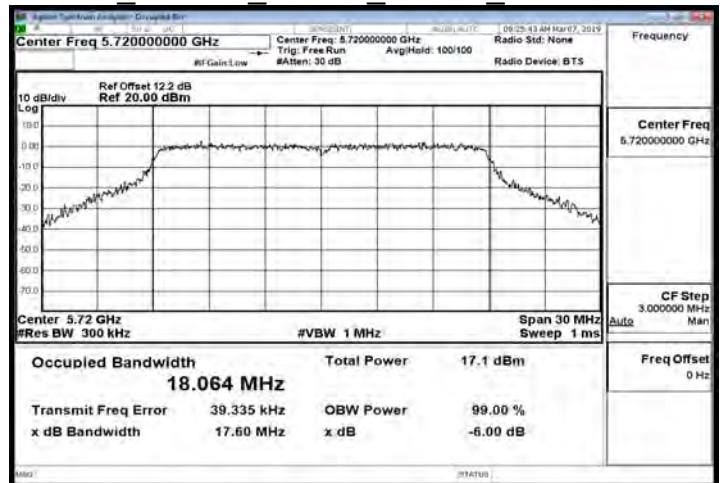
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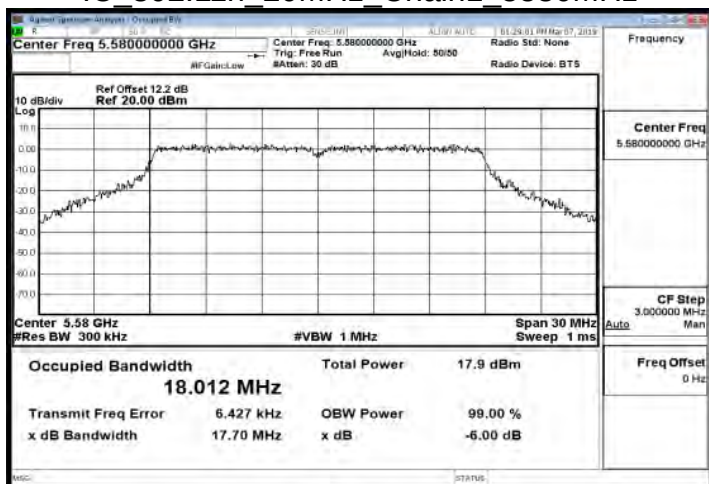
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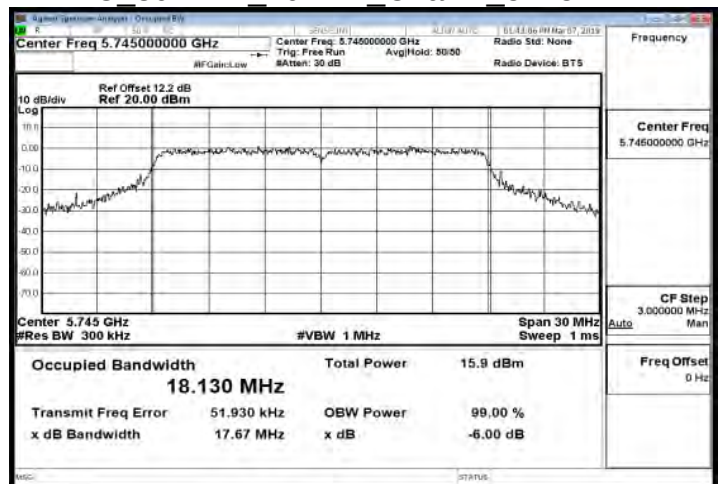
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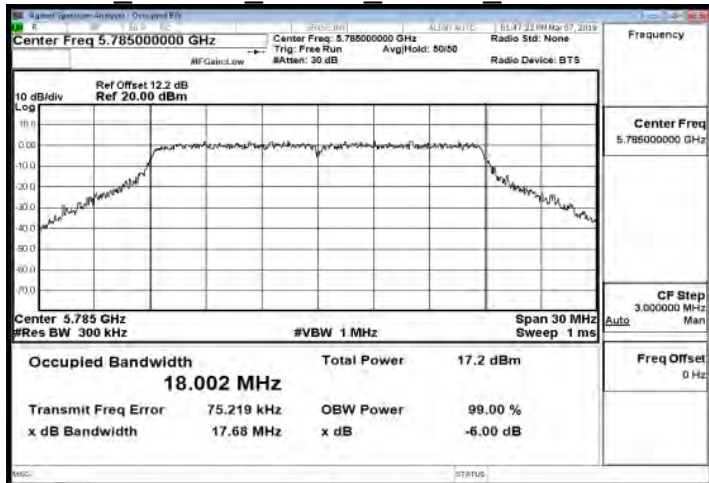


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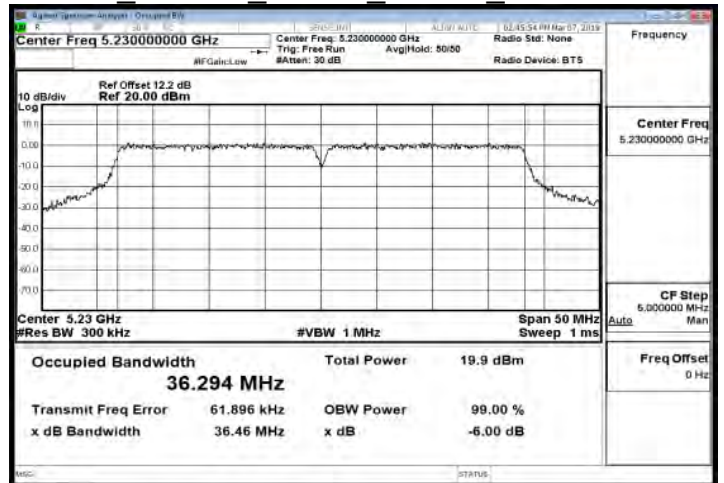
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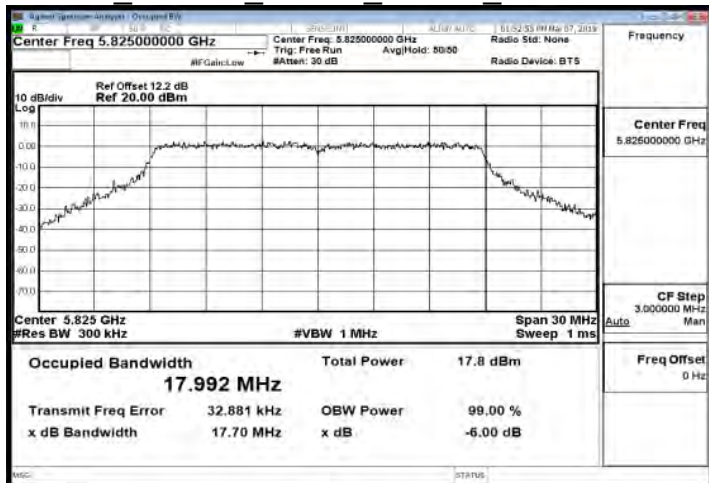
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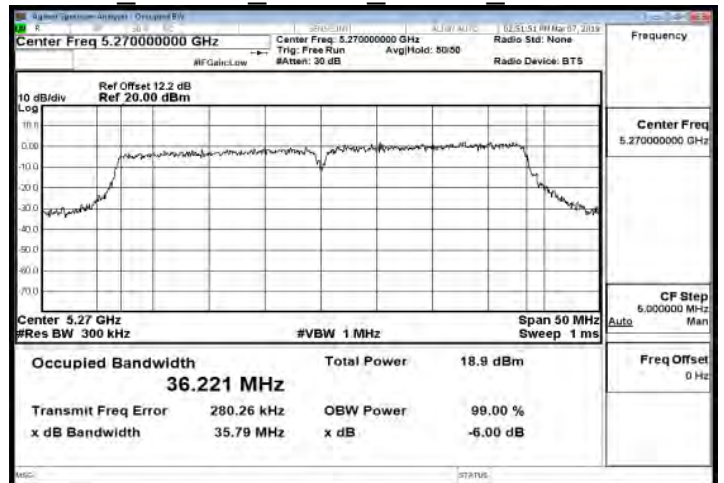
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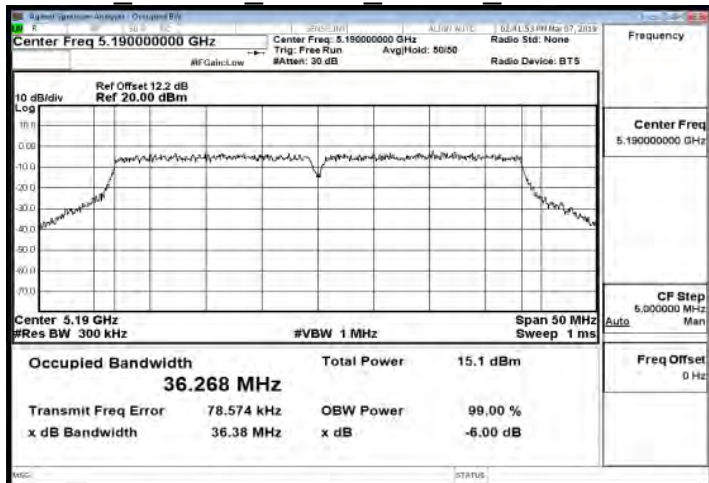
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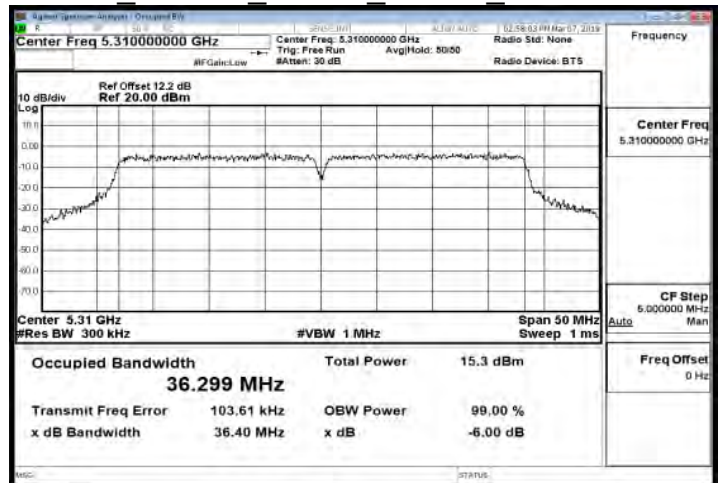
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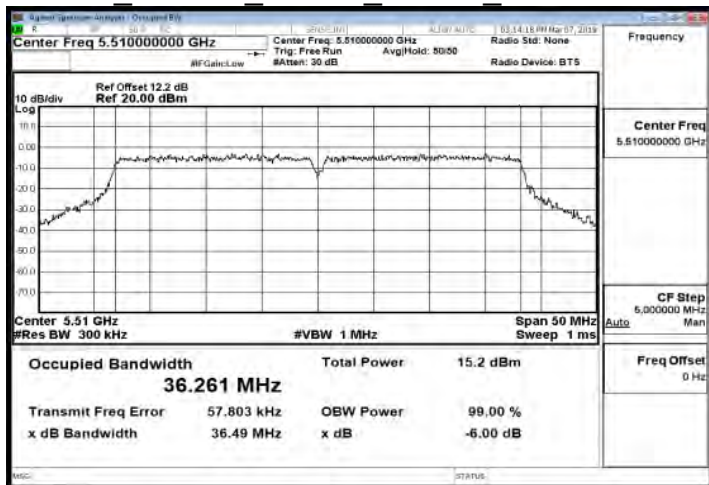


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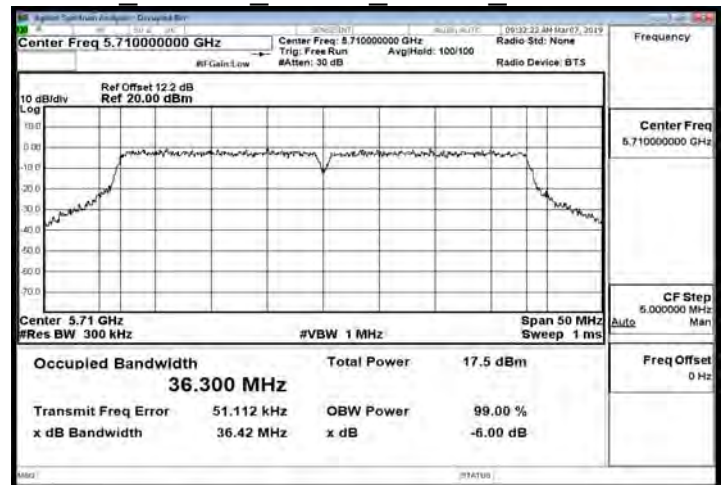
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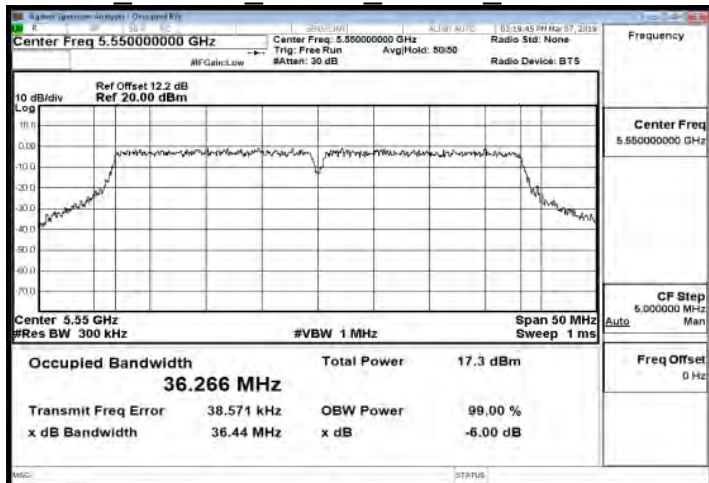
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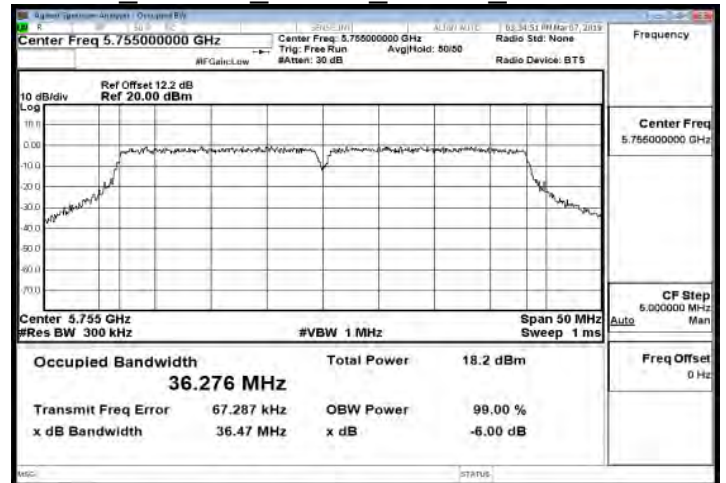
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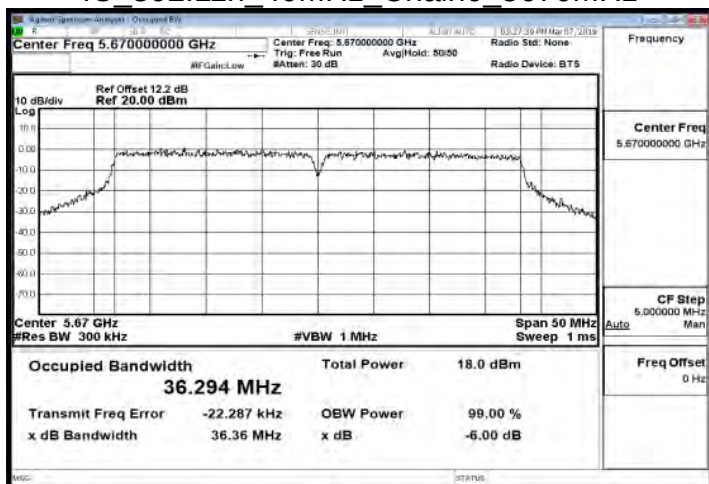
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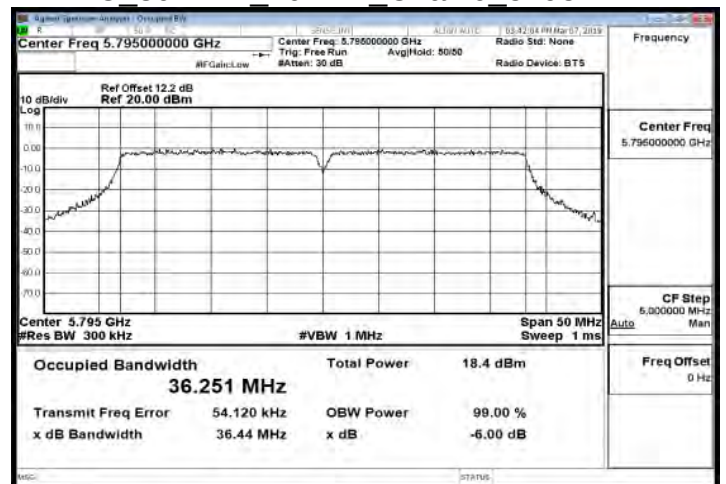
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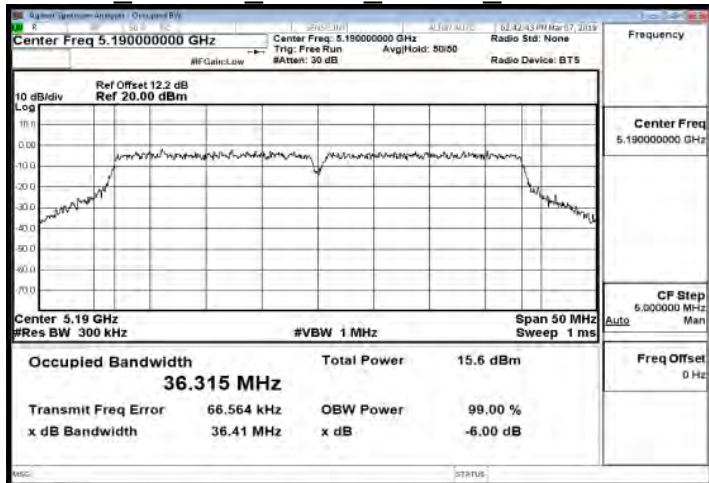


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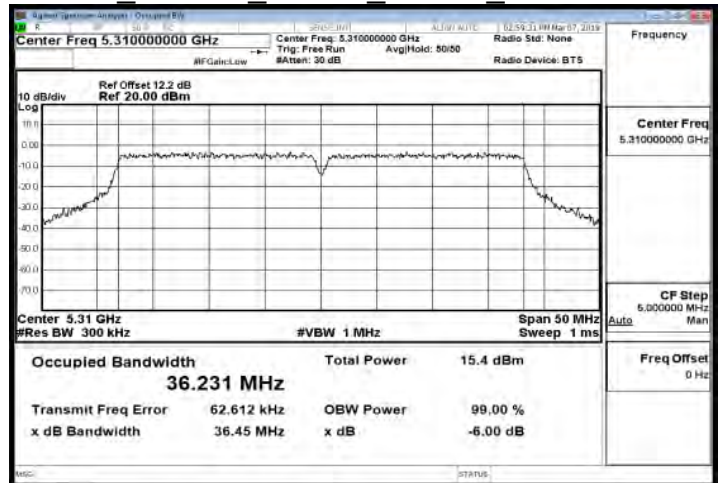
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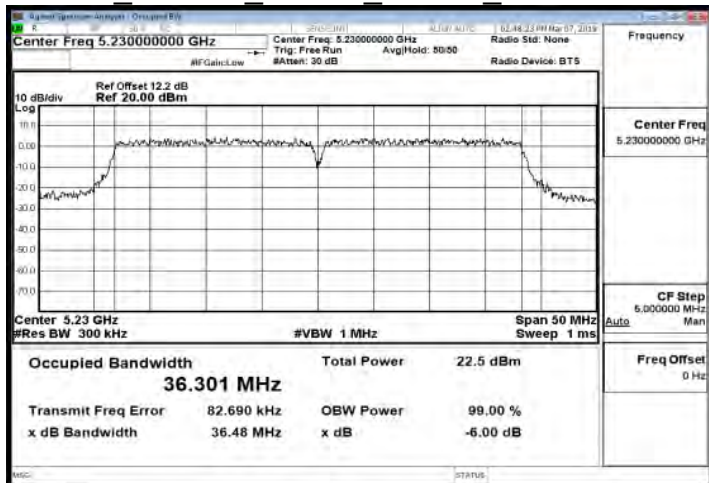
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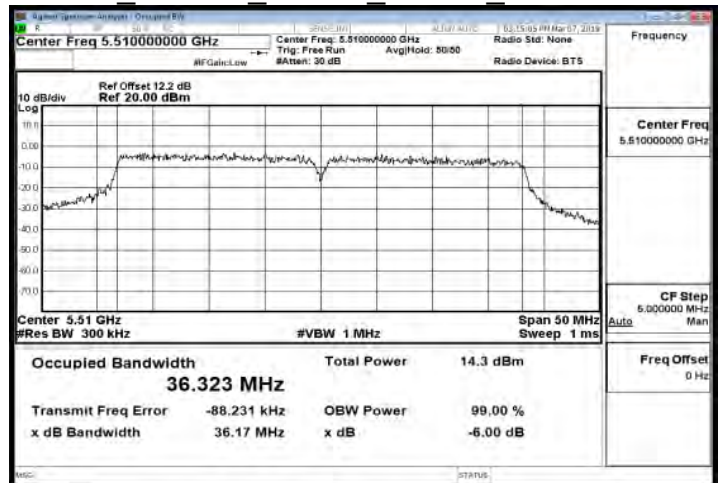
IC 802.11n 40MHz Chain1 5310MHz



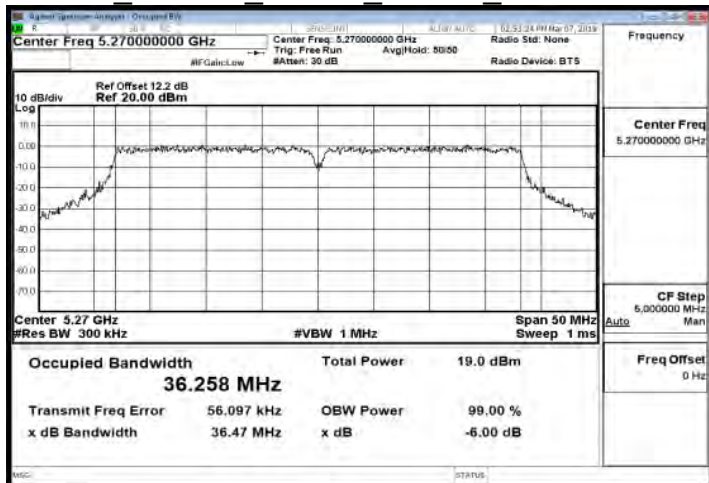
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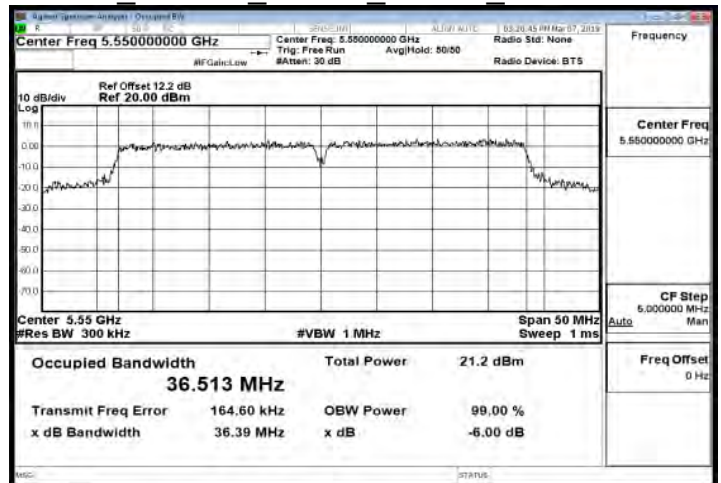
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IC 802.11n 40MHz Chain1 5270MHz



IC 802.11n 40MHz Chain1 5550MHz

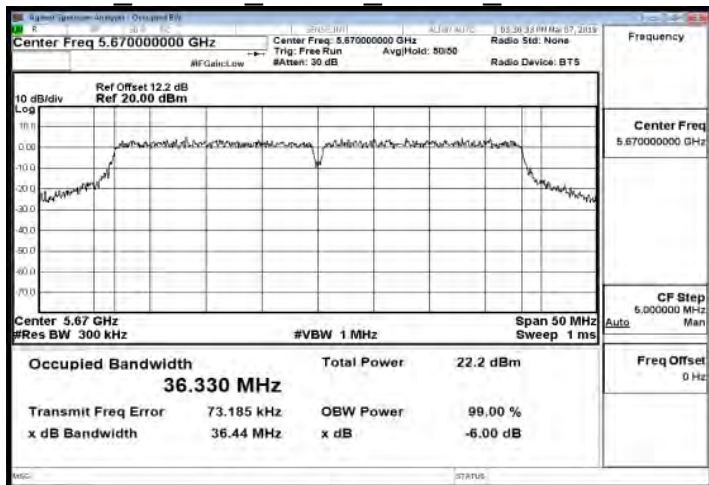


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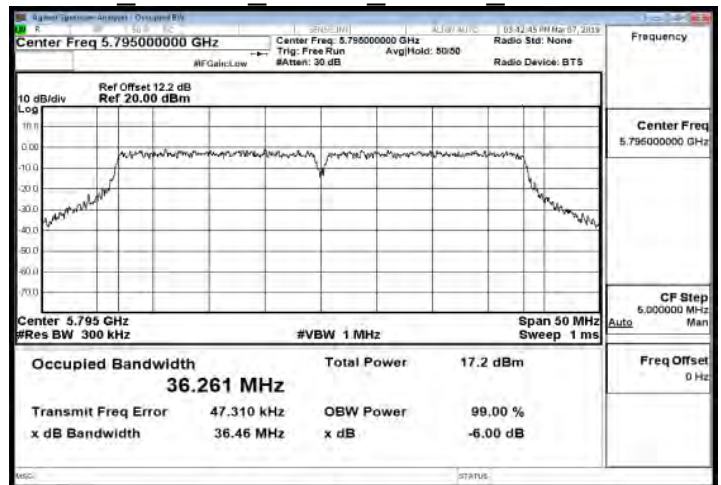
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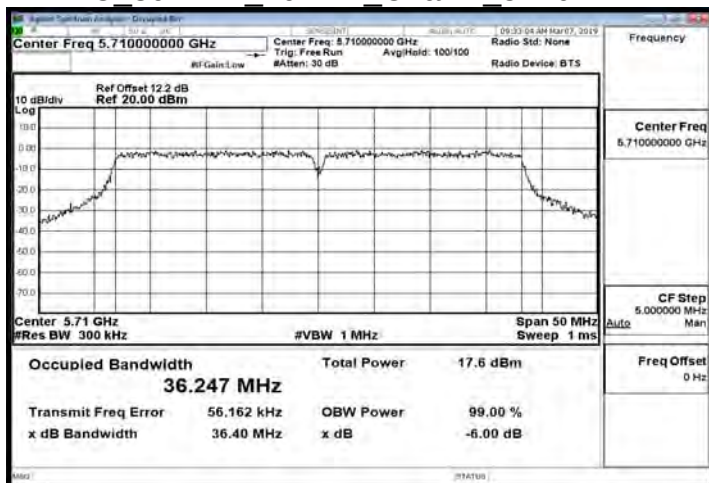
IC 802.11n 40MHz Chain1 5670MHz



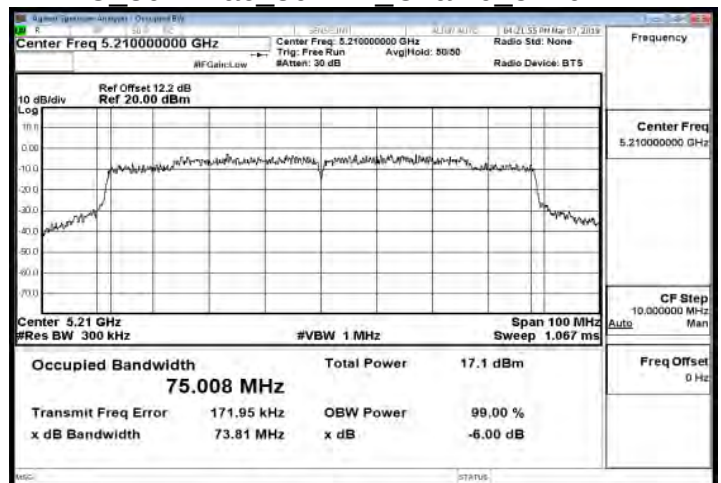
IC 802.11n 40MHz Chain1 5795MHz



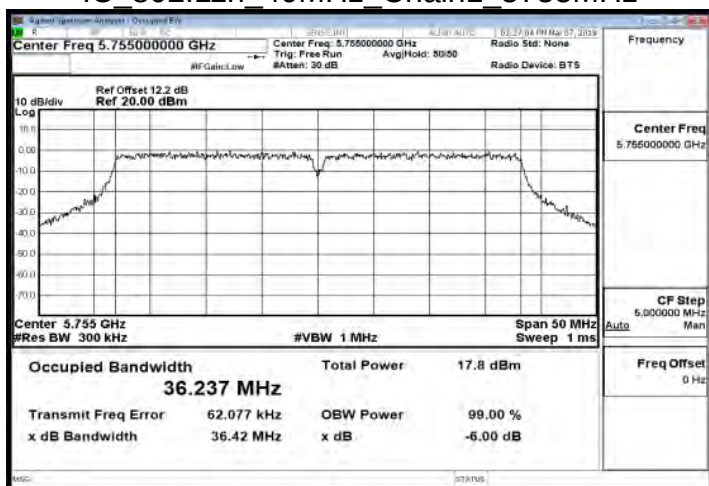
IC 802.11n 40MHz Chain1 5710MHz



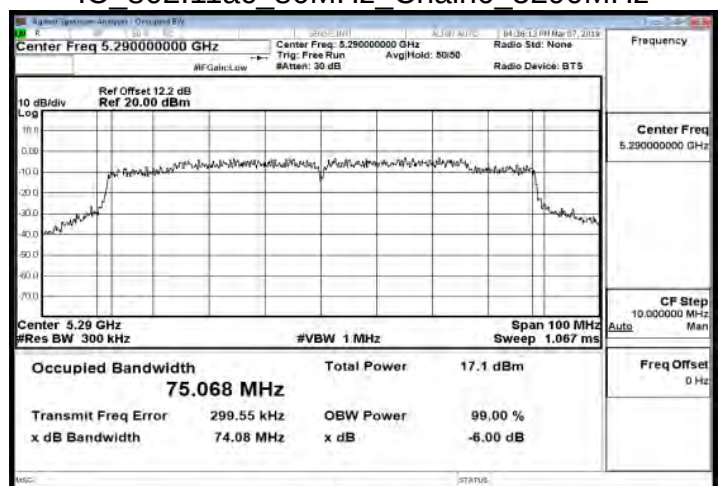
IC 802.11ac 80MHz Chain0 5210MHz



IC 802.11n 40MHz Chain1 5755MHz



IC 802.11ac 80MHz Chain0 5290MHz

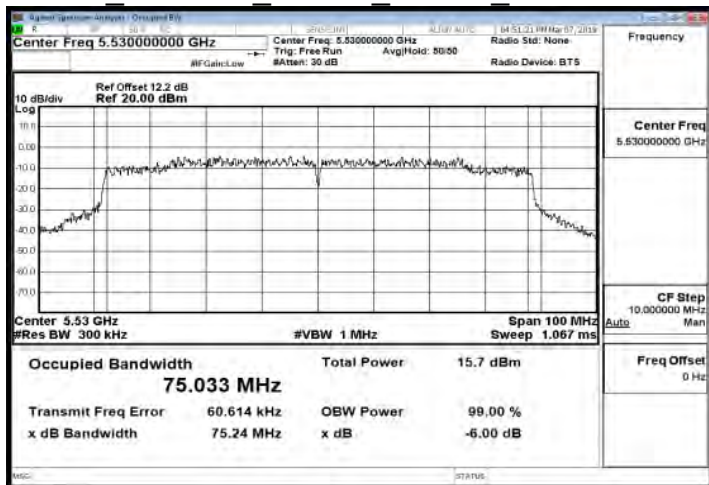


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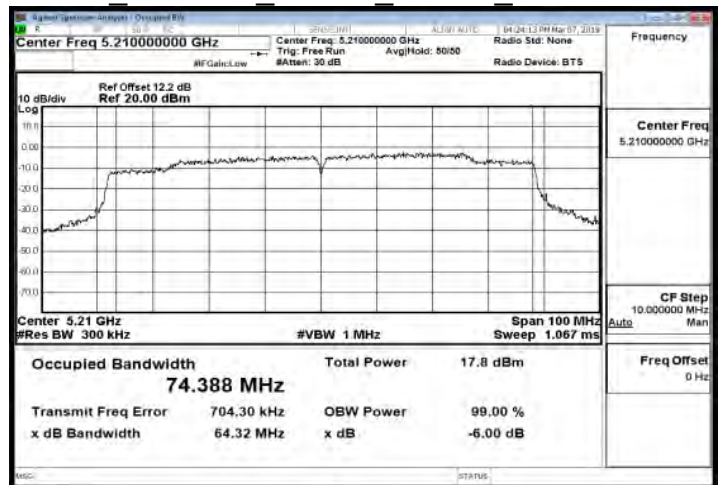
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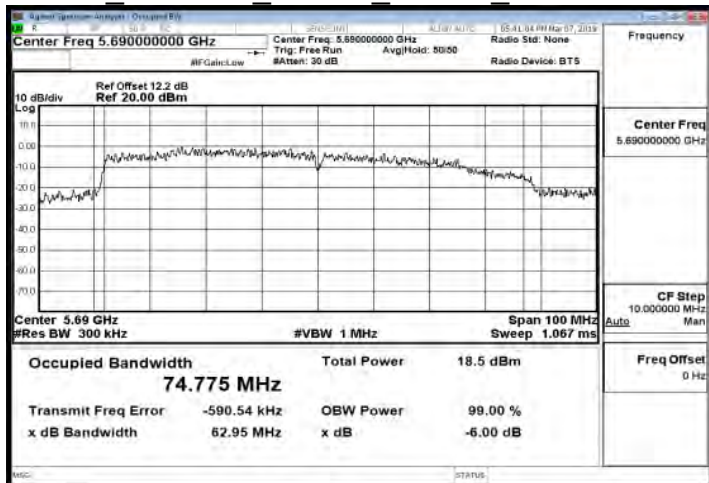
IC 802.11ac 80MHz Chain0 5530MHz



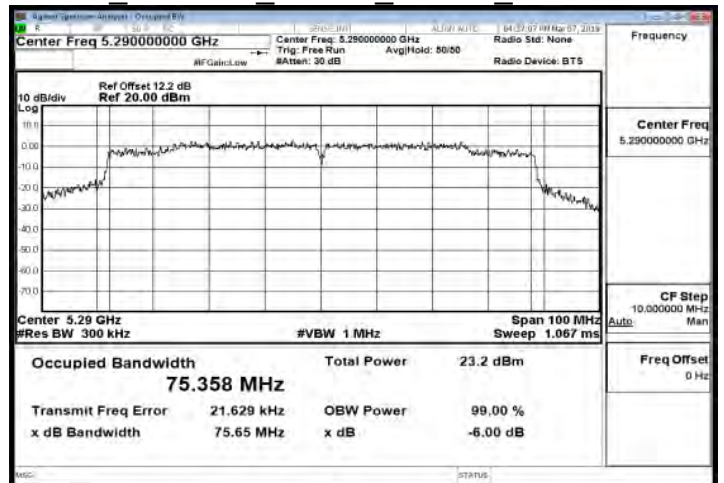
IC 802.11ac 80MHz Chain1 5210MHz



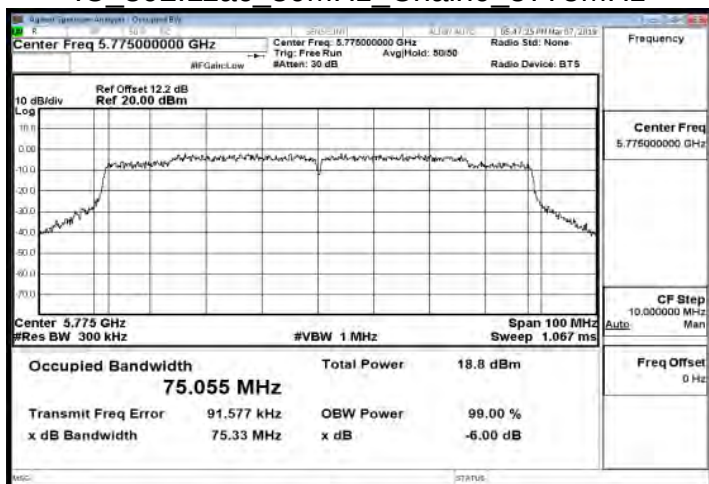
IC 802.11ac 80MHz Chain0 5690MHz



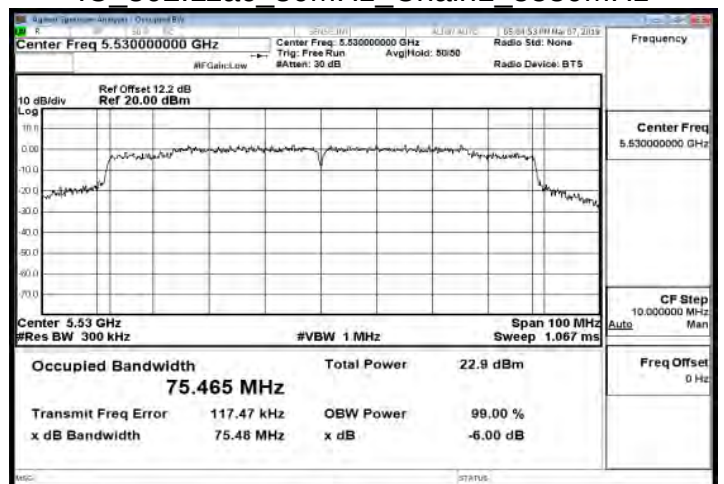
IC 802.11ac 80MHz Chain1 5290MHz



IC 802.11ac 80MHz Chain0 5775MHz



IC 802.11ac 80MHz Chain1 5530MHz

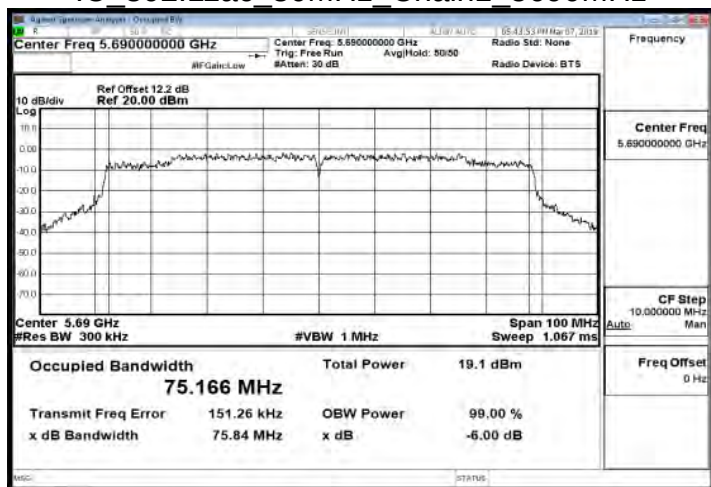


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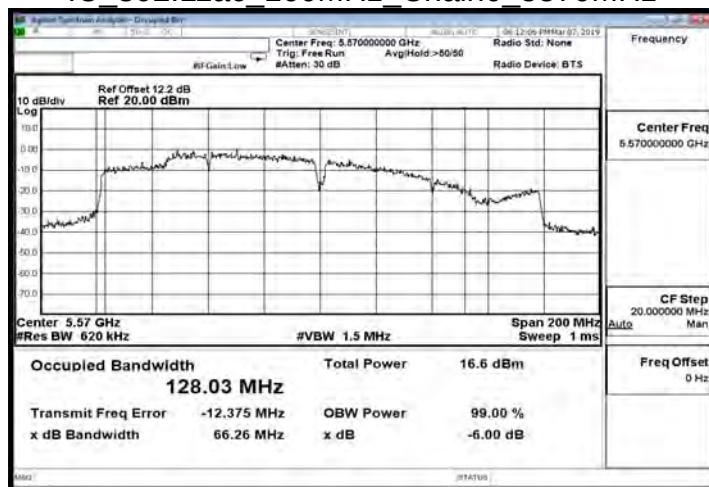
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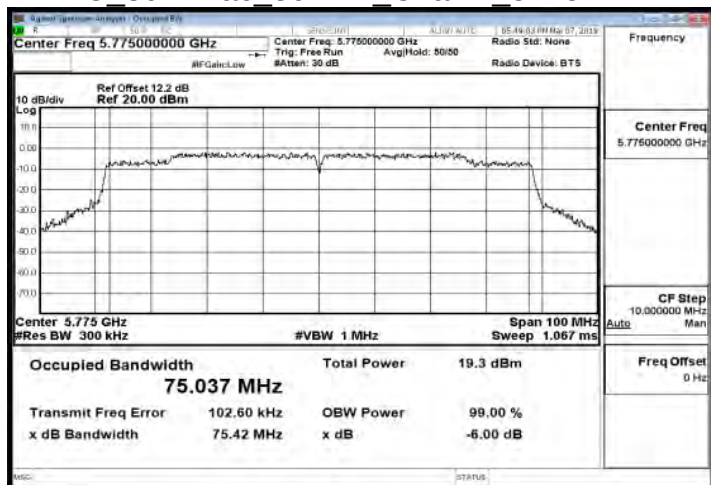
IC 802.11ac 80MHz Chain1 5690MHz



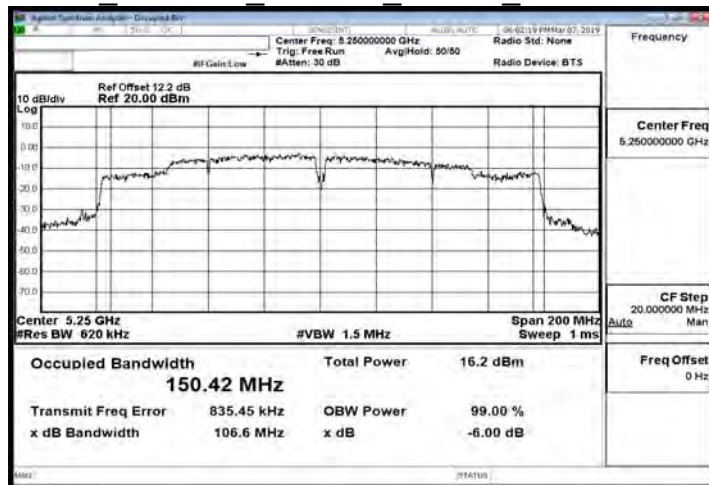
IC 802.11ac 160MHz Chain0 5570MHz



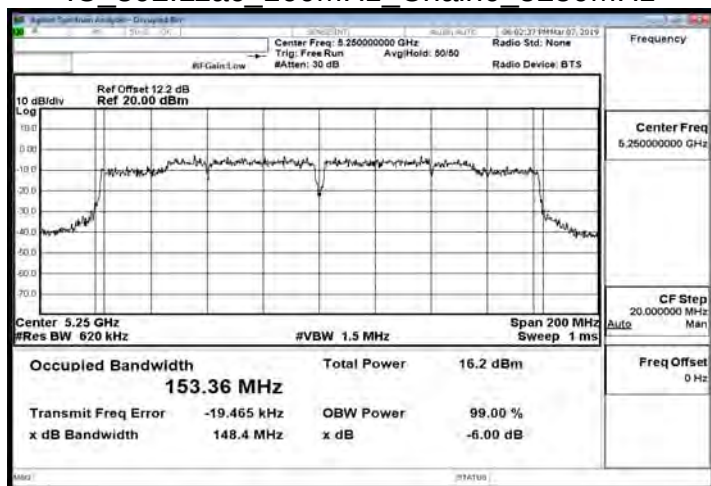
IC 802.11ac 80MHz Chain1 5775MHz



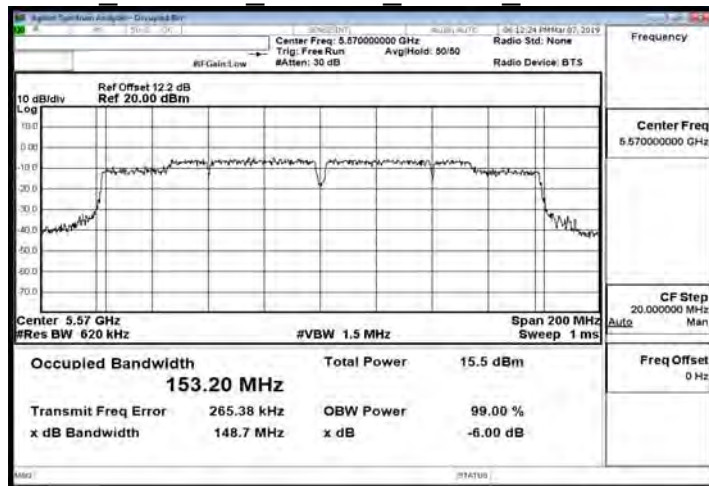
IC 802.11ac 160MHz Chain1 5250MHz



IC 802.11ac 160MHz Chain0 5250MHz



IC 802.11ac 160MHz Chain1 5570MHz



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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 (Mater device)	1 Watt(30dBm)
		Fixed point-to-point Acess Ponit	1 Watt(30dBm)
	√	Mobile and portable clinet 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.	

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.]

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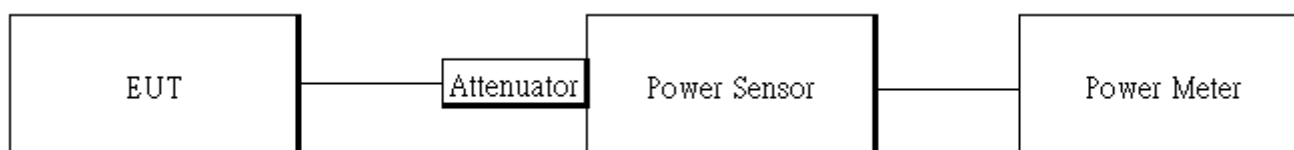
9.2 Measurement Procedure

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					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1242004	2018/10/23	2019/10/22
Power Sensor	Anritsu	MA2411B	1207365	2018/10/23	2019/10/22
Power Sensor	Anritsu	MA2411B	1207368	2018/10/24	2019/10/23
Attenuator	Marvelous	MVE2213-10	RF80	2019/02/26	2020/02/25
DC Power Supply	Agilent	E3640A	KR93300208	2018/08/15	2019/08/14

9.4 Test Set-up



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9.5 Measurement Result

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	13.93	24.734	23.98	PASS
44	5220	6	14.86	30.641	23.98	PASS
48	5240	6	14.90	30.924	23.98	PASS
52	5260	6	13.91	24.621	23.98 or $11+10\log(B) = 24.74$	PASS
60	5300	6	14.91	30.995	23.98 or $11+10\log(B) = 24.74$	PASS
64	5320	6	13.88	24.451	23.98 or $11+10\log(B) = 24.95$	PASS
100	5500	6	12.87	19.377	23.98 or $11+10\log(B) = 24.61$	PASS
116	5580	6	13.89	24.507	23.98 or $11+10\log(B) = 24.76$	PASS
140	5700	6	12.87	19.377	23.98 or $11+10\log(B) = 24.63$	PASS
149	5745	6	12.85	19.288	30	PASS
157	5785	6	13.92	24.677	30	PASS
165	5825	6	13.91	24.621	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	13.98	25.021	23.98	PASS
44	5220	6	14.99	31.572	23.98	PASS
48	5240	6	14.95	31.282	23.98	PASS
52	5260	6	13.97	24.963	23.98 or $11+10\log(B) = 24.89$	PASS
60	5300	6	14.98	31.499	23.98 or $11+10\log(B) = 24.79$	PASS
64	5320	6	13.97	24.963	23.98 or $11+10\log(B) = 24.48$	PASS
100	5500	6	12.96	19.783	23.98 or $11+10\log(B) = 24.70$	PASS
116	5580	6	13.97	24.963	23.98 or $11+10\log(B) = 24.72$	PASS
140	5700	6	12.96	19.783	23.98 or $11+10\log(B) = 24.72$	PASS
149	5745	6	12.99	19.920	30	PASS
157	5785	6	14.00	25.136	30	PASS
165	5825	6	13.98	25.021	30	PASS

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802.11a_2Tx

CH	Frequency (MHz)	Data Rate	g. POWER (dB)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	6	9.62	10.6	13.86	24.296	23.98	PASS
44	5220	6	10.9	11.4	14.86	30.652	23.98	PASS
48	5240	6	10.9	11.3	14.82	30.338	23.98	PASS
52	5260	6	9.67	10.7	13.91	24.609	23.98 or 11+10log(B) = 24.74	PASS
60	5300	6	10.8	11.4	14.81	30.299	23.98 or 11+10log(B) = 24.74	PASS
64	5320	6	9.62	10.7	13.91	24.578	23.98 or 11+10log(B) = 24.48	PASS
100	5500	6	8.82	9.51	12.90	19.507	23.98 or 11+10log(B) = 24.61	PASS
116	5580	6	9.77	10.5	13.86	24.307	23.98 or 11+10log(B) = 24.72	PASS
140	5700	6	8.65	9.64	12.90	19.482	23.98 or 11+10log(B) = 24.63	PASS
149	5745	6	8.8	9.54	12.91	19.539	30	PASS
157	5785	6	9.71	10.5	13.84	24.215	30	PASS
165	5825	6	9.85	10.5	13.88	24.455	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13.92	24.670	23.98	PASS
44	5220	MCS0	14.88	30.773	23.98	PASS
48	5240	MCS0	14.94	31.201	23.98	PASS
52	5260	MCS0	13.91	24.613	23.98 or 11+10log(B) = 24.80	PASS
60	5300	MCS0	14.92	31.058	23.98 or 11+10log(B) = 24.74	PASS
64	5320	MCS0	13.88	24.444	23.98 or 11+10log(B) = 24.72	PASS
100	5500	MCS0	12.91	19.551	23.98 or 11+10log(B) = 24.71	PASS
116	5580	MCS0	13.88	24.444	23.98 or 11+10log(B) = 24.70	PASS
140	5700	MCS0	12.91	19.551	23.98 or 11+10log(B) = 25.32	PASS
144	5720(U-NII 2C)	MCS0	9.72	9.374	23.98 or 11+10log(B) = 23.17	PASS
144	5720 (U-NII 3)	MCS0	4.22	2.644	30	PASS
149	5745	MCS0	12.89	19.461	30	PASS
157	5785	MCS0	13.91	24.613	30	PASS
165	5825	MCS0	13.93	24.727	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	13.96	24.898	23.98	PASS
44	5220	MCS0	14.98	31.490	23.98	PASS
48	5240	MCS0	14.97	31.418	23.98	PASS
52	5260	MCS0	13.96	24.898	23.98 or $11+10\log(B) = 24.87$	PASS
60	5300	MCS0	14.98	31.490	23.98 or $11+10\log(B) = 24.82$	PASS
64	5320	MCS0	13.98	25.013	23.98 or $11+10\log(B) = 24.81$	PASS
100	5500	MCS0	12.96	19.778	23.98 or $11+10\log(B) = 24.76$	PASS
116	5580	MCS0	13.95	24.841	23.98 or $11+10\log(B) = 24.67$	PASS
140	5700	MCS0	12.98	19.869	23.98 or $11+10\log(B) = 24.70$	PASS
144	5720(U-NII 2C)	MCS0	10.38	10.927	23.98 or $11+10\log(B) = 23.99$	PASS
144	5720 (U-NII 3)	MCS0	3.59	2.284	30	PASS
149	5745	MCS0	12.96	19.778	30	PASS
157	5785	MCS0	13.97	24.956	30	PASS
165	5825	MCS0	13.96	24.898	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	g. POWER (dB)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	9.72	10.6	13.92	24.648	23.98	PASS
44	5220	MCS8	10.9	11.4	14.92	31.074	23.98	PASS
48	5240	MCS8	10.9	11.4	14.92	31.044	23.98	PASS
52	5260	MCS8	9.82	10.5	13.93	24.721	23.98 or $11+10\log(B) = 24.80$	PASS
60	5300	MCS8	10.8	11.5	14.94	31.194	23.98 or $11+10\log(B) = 24.74$	PASS
64	5320	MCS8	9.84	10.5	13.94	24.774	23.98 or $11+10\log(B) = 24.72$	PASS
100	5500	MCS8	8.76	9.55	12.92	19.611	23.98 or $11+10\log(B) = 24.71$	PASS
116	5580	MCS8	9.65	10.6	13.88	24.439	23.98 or $11+10\log(B) = 24.67$	PASS
140	5700	MCS8	8.69	9.59	12.92	19.567	23.98 or $11+10\log(B) = 24.70$	PASS
144	5720(U-NII 2C)	MCS8	6.78	7.78	9.66	9.256	23.98 or $11+10\log(B) = 23.17$	PASS
144	5720 (U-NII 3)	MCS8	2.94	2.69	4.20	2.630	30	PASS
149	5745	MCS8	8.78	9.53	12.92	19.603	30	PASS
157	5785	MCS8	9.74	10.5	13.89	24.514	30	PASS
165	5825	MCS8	9.71	10.6	13.92	24.685	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	10.92	12.351	23.98	PASS
46	5230	MCS0	14.78	30.040	23.98	PASS
54	5270	MCS0	14.82	30.318	23.98 or $11+10\log(B) = 27.17$	PASS
62	5310	MCS0	10.91	12.323	23.98 or $11+10\log(B) = 27.52$	PASS
102	5510	MCS0	10.59	11.447	23.98 or $11+10\log(B) = 27.55$	PASS
110	5550	MCS0	13.81	24.027	23.98 or $11+10\log(B) = 27.38$	PASS
134	5670	MCS0	13.84	24.194	23.98 or $11+10\log(B) = 27.54$	PASS
142	5710(U-NII 2C)	MCS0	11.71	14.828	23.98 or $11+10\log(B) = 26.58$	PASS
142	5710 (U-NII 3)	MCS0	2.04	1.598	30	PASS
151	5755	MCS0	13.70	23.426	30	PASS
159	5795	MCS0	13.72	23.534	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	10.97	12.494	23.98	PASS
46	5230	MCS0	14.96	31.312	23.98	PASS
54	5270	MCS0	14.95	31.240	23.98 or $11+10\log(B) = 27.36$	PASS
62	5310	MCS0	10.96	12.465	23.98 or $11+10\log(B) = 27.40$	PASS
102	5510	MCS0	10.97	12.494	23.98 or $11+10\log(B) = 27.58$	PASS
110	5550	MCS0	13.95	24.814	23.98 or $11+10\log(B) = 27.99$	PASS
134	5670	MCS0	13.99	25.044	23.98 or $11+10\log(B) = 27.45$	PASS
142	5710(U-NII 2C)	MCS0	11.83	15.238	23.98 or $11+10\log(B) = 26.63$	PASS
142	5710 (U-NII 3)	MCS0	2.14	1.636	23.98	PASS
151	5755	MCS0	13.98	24.986	23.98	PASS
159	5795	MCS0	13.96	24.872	30	PASS

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802.11n HT40_MIMO

CH	Frequency (MHz)	Data Rate	g. POWER (dB)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	6.92	7.31	10.90	12.293	23.98	PASS
46	5230	MCS8	10.9	11.4	14.90	30.868	23.98	PASS
54	5270	MCS8	10.7	11.5	14.88	30.737	23.98 or $11+10\log(B) = 27.17$	PASS
62	5310	MCS8	6.86	7.45	10.94	12.423	23.98 or $11+10\log(B) = 27.40$	PASS
102	5510	MCS8	6.86	7.26	10.84	12.139	23.98 or $11+10\log(B) = 27.55$	PASS
110	5550	MCS8	9.6	10.5	13.83	24.177	23.98 or $11+10\log(B) = 27.38$	PASS
134	5670	MCS8	9.68	10.4	13.82	24.107	23.98 or $11+10\log(B) = 27.45$	PASS
142	5710(U-NII 2C)	MCS8	8.14	8.92	11.80	15.129	23.98 or $11+10\log(B) = 26.58$	PASS
142	5710 (U-NII 3)	MCS8	1.42	1.61	2.05	1.604	30	PASS
151	5755	MCS8	9.63	10.5	13.88	24.407	30	PASS
159	5795	MCS8	9.65	10.5	13.86	24.303	30	PASS

802.11ac VHT80_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	10.92	12.347	23.98	PASS
58	5290	MCS0	10.77	11.927	23.98 or $11+10\log(B) = 30.42$	PASS
106	5530	MCS0	10.76	11.900	23.98 or $11+10\log(B) = 30.20$	PASS
122	5610	MCS0	12.74	18.774	23.98 or $11+10\log(B) = 31.00$	PASS
138	5690(U-NII 2C)	MCS0	11.59	14.420	23.98 or $11+10\log(B) = 29.89$	PASS
138	5690 (U-NII 3)	MCS0	1.28	1.341	30	PASS
155	5775	MCS0	12.75	18.817	30	PASS

802.11ac VHT80_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	10.98	12.518	23.98	PASS
58	5290	MCS0	10.94	12.404	23.98 or $11+10\log(B) = 30.64$	PASS
106	5530	MCS0	10.95	12.432	23.98 or $11+10\log(B) = 31.00$	PASS
122	5610	MCS0	12.95	19.704	23.98 or $11+10\log(B) = 31.00$	PASS
138	5690(U-NII 2C)	MCS0	11.87	15.381	23.98 or $11+10\log(B) = 29.91$	PASS
138	5690 (U-NII 3)	MCS0	1.11	1.290	23.98	PASS
155	5775	MCS0	12.99	19.886	23.98	PASS

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802.11ac VHT80 MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dB)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	6.85	7.32	10.93	12.380	23.98	PASS
58	5290	MCS0	6.75	7.28	10.86	12.187	23.98 or $11+10\log(B) = 30.42$	PASS
106	5530	MCS0	6.7	7.32	10.86	12.181	23.98 or $11+10\log(B) = 30.20$	PASS
122	5610	MCS0	8.55	9.29	12.77	18.930	23.98 or $11+10\log(B) = 31.00$	PASS
138	5690(U-NII 2C)	MCS0	8.07	8.22	11.54	14.258	23.98 or $11+10\log(B) = 29.89$	PASS
138	5690 (U-NII 3)	MCS0	0.89	0.77	1.27	1.340	30	PASS
155	5775	MCS0	8.85	9.12	12.82	19.155	30	PASS

802.11ac_VHT160_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
50	5250	MCS0	10.92	12.368	23.98 or $11+10\log(B) = 33.13$	PASS
114	5570	MCS0	10.88	12.260	23.98 or $11+10\log(B) = 33.06$	PASS

802.11ac_VHT160_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
50	5250	MCS0	10.99	12.551	23.98 or $11+10\log(B) = 33.07$	PASS
114	5570	MCS0	10.95	12.436	23.98 or $11+10\log(B) = 33.14$	PASS

802.11ac_VHT160_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
50	5250	MCS0	6.56	6.73	10.92	12.368	23.98 or $11+10\log(B) = 11.00$	PASS
114	5570	MCS0	6.45	6.76	10.88	12.260	23.98 or $11+10\log(B) = 33.07$	PASS

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Conducted output power (IC)

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.91	24.621	23.98 or $11+10\log(B) = 23.29$	PASS
60	5300	14.91	30.995	23.98 or $11+10\log(B) = 23.29$	PASS
64	5320	13.88	24.451	23.98 or $11+10\log(B) = 23.28$	PASS
100	5500	12.87	19.377	23.98 or $11+10\log(B) = 23.25$	PASS
116	5580	13.89	24.507	23.98 or $11+10\log(B) = 23.27$	PASS
140	5700	12.87	19.377	23.98 or $11+10\log(B) = 23.26$	PASS
149	5745	12.85	19.288	30	PASS
157	5785	13.92	24.677	30	PASS
165	5825	13.91	24.621	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.97	24.963	23.98 or $11+10\log(B) = 23.30$	PASS
60	5300	14.98	31.499	23.98 or $11+10\log(B) = 23.28$	PASS
64	5320	13.97	24.963	23.98 or $11+10\log(B) = 23.26$	PASS
100	5500	12.96	19.783	23.98 or $11+10\log(B) = 23.28$	PASS
116	5580	13.97	24.963	23.98 or $11+10\log(B) = 23.29$	PASS
140	5700	12.96	19.783	23.98 or $11+10\log(B) = 23.29$	PASS
149	5745	12.99	19.920	30	PASS
157	5785	14.00	25.136	30	PASS
165	5825	13.98	25.021	30	PASS

802.11a_2Tx

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	9.67	10.65	13.91	24.609	23.98 or $11+10\log(B) = 23.29$	PASS
60	5300	10.77	11.39	14.81	30.299	23.98 or $11+10\log(B) = 23.28$	PASS
64	5320	9.62	10.68	13.91	24.578	23.98 or $11+10\log(B) = 23.26$	PASS
100	5500	8.82	9.51	12.90	19.507	23.98 or $11+10\log(B) = 23.25$	PASS
116	5580	9.77	10.47	13.86	24.307	23.98 or $11+10\log(B) = 23.27$	PASS
140	5700	8.65	9.64	12.90	19.482	23.98 or $11+10\log(B) = 23.26$	PASS
149	5745	8.8	9.54	12.91	19.539	30	PASS
157	5785	9.71	10.49	13.84	24.215	30	PASS
165	5825	9.85	10.45	13.88	24.455	30	PASS

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802.11n HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.91	24.613	23.98 or $11+10\log(B) = 23.57$	PASS
60	5300	14.92	31.058	23.98 or $11+10\log(B) = 23.55$	PASS
64	5320	13.88	24.444	23.98 or $11+10\log(B) = 23.56$	PASS
100	5500	12.91	19.551	23.98 or $11+10\log(B) = 23.55$	PASS
116	5580	13.88	24.444	23.98 or $11+10\log(B) = 23.54$	PASS
140	5700	12.91	19.551	23.98 or $11+10\log(B) = 23.57$	PASS
144	5720(U-NII 2C)	9.72	9.374	23.98 or $11+11\log(B) = 22.47$	PASS
144	5720 (U-NII 3)	4.22	2.644	30	PASS
149	5745	12.89	19.461	30	PASS
157	5785	13.91	24.613	30	PASS
165	5825	13.93	24.727	30	PASS

802.11n HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.96	24.898	23.98 or $11+10\log(B) = 23.58$	PASS
60	5300	14.98	31.490	23.98 or $11+10\log(B) = 23.58$	PASS
64	5320	13.98	25.013	23.98 or $11+10\log(B) = 23.57$	PASS
100	5500	12.96	19.778	23.98 or $11+10\log(B) = 23.59$	PASS
116	5580	13.95	24.841	23.98 or $11+10\log(B) = 23.56$	PASS
140	5700	12.98	19.869	23.98 or $11+10\log(B) = 23.57$	PASS
144	5720(U-NII 2C)	10.38	10.927	23.98 or $11+10\log(B) = 22.47$	PASS
144	5720 (U-NII 3)	3.59	2.284	30	PASS
149	5745	12.96	19.778	30	PASS
157	5785	13.97	24.956	30	PASS
165	5825	13.96	24.898	30	PASS

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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	9.82	10.51	13.93	24.721	23.98 or $11+10\log(B) = 23.57$	PASS
60	5300	10.83	11.52	14.94	31.194	23.98 or $11+10\log(B) = 23.55$	PASS
64	5320	9.84	10.51	13.94	24.774	23.98 or $11+10\log(B) = 23.56$	PASS
100	5500	8.76	9.55	12.92	19.611	23.98 or $11+10\log(B) = 23.55$	PASS
116	5580	9.65	10.56	13.88	24.439	23.98 or $11+10\log(B) = 23.54$	PASS
140	5700	8.69	9.59	12.92	19.567	23.98 or $11+10\log(B) = 23.57$	PASS
144	5720(U-NII 2C)	6.776	7.782	9.66	9.256	23.98 or $11+10\log(B) = 22.47$	PASS
144	5720 (U-NII 3)	2.944	2.688	4.20	2.630	30	PASS
149	5745	8.78	9.53	12.92	19.603	30	PASS
157	5785	9.74	10.51	13.89	24.514	30	PASS
165	5825	9.71	10.59	13.92	24.685	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	14.82	30.318	23.98 or $11+10\log(B) = 26.59$	PASS
62	5310	10.91	12.323	23.98 or $11+10\log(B) = 26.60$	PASS
102	5510	10.59	11.447	23.98 or $11+10\log(B) = 26.59$	PASS
110	5550	13.81	24.027	23.98 or $11+10\log(B) = 26.59$	PASS
134	5670	13.84	24.194	23.98 or $11+10\log(B) = 26.60$	PASS
142	5710(U-NII 2C)	11.71	14.828	23.98 or $11+11\log(B) = 26.20$	PASS
142	5710 (U-NII 3)	2.04	1.598	30	PASS
151	5755	13.70	23.426	30	PASS
159	5795	13.72	23.534	30	PASS

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802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	14.95	31.240	23.98 or 11+10log(B) = 26.59	PASS
62	5310	10.96	12.465	23.98 or 11+10log(B) = 26.59	PASS
102	5510	10.97	12.494	23.98 or 11+10log(B) = 26.60	PASS
110	5550	13.95	24.814	23.98 or 11+10log(B) = 26.62	PASS
134	5670	13.99	25.044	23.98 or 11+10log(B) = 26.60	PASS
142	5710(U-NII 2C)	11.83	15.238	23.98 or 11+10log(B) = 26.20	PASS
142	5710 (U-NII 3)	2.14	1.636	30	PASS
151	5755	13.98	24.986	30	PASS
159	5795	13.96	24.872	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	10.67	11.49	14.88	30.737	23.98 or 11+10log(B) = 26.59	PASS
62	5310	6.86	7.45	10.94	12.423	23.98 or 11+10log(B) = 26.59	PASS
102	5510	6.86	7.26	10.84	12.139	23.98 or 11+10log(B) = 26.59	PASS
110	5550	9.6	10.47	13.83	24.177	23.98 or 11+10log(B) = 26.59	PASS
134	5670	9.68	10.38	13.82	24.107	23.98 or 11+10log(B) = 26.60	PASS
142	5710(U-NII 2C)	8.144	8.918	11.80	15.129	23.98 or 11+10log(B) = 26.20	PASS
142	5710 (U-NII 3)	1.416	1.612	2.05	1.604	30	PASS
151	5755	9.63	10.52	13.88	24.407	30	PASS
159	5795	9.65	10.47	13.86	24.303	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	10.77	11.927	23.98 or 11+10log(B) = 29.75	PASS
106	5530	10.76	11.900	23.98 or 11+10log(B) = 29.75	PASS
138	5690(U-NII 2C)	11.59	14.420	23.98 or 11+12log(B) = 29.61	PASS
138	5690 (U-NII 3)	1.28	1.341	30	PASS
155	5775	12.75	18.817	30	PASS

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802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	10.94	12.404	23.98 or $11+10\log(B) = 29.77$	PASS
106	5530	10.95	12.432	23.98 or $11+10\log(B) = 29.78$	PASS
138	5690(U-NII 2C)	11.87	15.381	23.98 or $11+10\log(B) = 29.59$	PASS
138	5690 (U-NII 3)	1.11	1.290	30	PASS
155	5775	12.99	19.886	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	6.75	7.28	10.86	12.187	23.98 or $11+10\log(B) = 29.75$	PASS
106	5530	6.7	7.32	10.86	12.181	23.98 or $11+10\log(B) = 29.75$	PASS
138	5690(U-NII 2C)	8.072	8.224	11.54	14.258	23.98 or $11+10\log(B) = 29.59$	PASS
138	5690 (U-NII 3)	0.888	0.766	1.27	1.340	30	PASS
155	5775	8.85	9.12	12.82	19.155	30	PASS

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802.11ac_VHT160_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
50	5250	10.92	12.368	23.98	or $11+10\log(B) =$	32.86	PASS
114	5570	10.88	12.260	23.98	or $11+10\log(B) =$	32.07	PASS

802.11ac_VHT160_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
50	5250	10.99	12.551	23.98	or $11+10\log(B) =$	32.77	PASS
114	5570	10.95	12.436	23.98	or $11+10\log(B) =$	32.85	PASS

802.11ac_VHT160_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
		CH 0	CH 1						
50	5250	6.56	6.73	10.92	12.368	23.98	or $11+10\log(B) =$	11.00	PASS
114	5570	6.45	6.76	10.88	12.260	23.98	or $11+10\log(B) =$	11.00	PASS

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EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.93	1.000	14.93	31.138	23.01 or 10+10log(B)= 22.27	PASS
44	5220	14.86	1.000	15.86	38.574	23.01 or 10+10log(B)= 22.29	PASS
48	5240	14.90	1.000	15.90	38.931	23.01 or 10+10log(B)= 22.28	PASS
52	5260	13.91	0.980	14.89	30.853	30 or 17+10log(B)= 29.29	PASS
60	5300	14.91	0.980	15.89	38.842	30 or 17+10log(B)= 29.29	PASS
64	5320	13.88	0.980	14.86	30.641	30 or 17+10log(B)= 29.28	PASS
100	5500	12.87	0.990	13.86	24.339	30 or 17+10log(B)= 29.25	PASS
116	5580	13.89	0.990	14.88	30.782	30 or 17+10log(B)= 29.27	PASS
140	5700	12.87	0.990	13.86	24.339	30 or 17+10log(B)= 29.26	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.98	0.990	14.97	31.427	23.01 or 10+10log(B)= 22.27	PASS
44	5220	14.99	0.990	15.98	39.655	23.01 or 10+10log(B)= 22.30	PASS
48	5240	14.95	0.990	15.94	39.291	23.01 or 10+10log(B)= 22.29	PASS
52	5260	13.97	0.980	14.95	31.282	30 or 17+10log(B)= 29.30	PASS
60	5300	14.98	0.980	15.96	39.473	30 or 17+10log(B)= 29.28	PASS
64	5320	13.97	0.980	14.95	31.282	30 or 17+10log(B)= 29.26	PASS
100	5500	12.96	1.000	13.96	24.906	30 or 17+10log(B)= 29.28	PASS
116	5580	13.97	1.000	14.97	31.427	30 or 17+10log(B)= 29.29	PASS
140	5700	12.96	1.000	13.96	24.906	30 or 17+10log(B)= 29.29	PASS

802.11a_2Tx

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.86	4.005	17.86	61.103	23.01 or 10+10log(B)= 22.27	PASS
44	5220	14.86	4.005	18.87	77.089	23.01 or 10+10log(B)= 22.29	PASS
48	5240	14.82	4.005	18.83	76.299	23.01 or 10+10log(B)= 22.28	PASS
52	5260	13.91	3.990	17.90	61.676	30 or 17+10log(B)= 29.29	PASS
60	5300	14.81	3.990	18.80	75.939	30 or 17+10log(B)= 29.28	PASS
64	5320	13.91	3.990	17.90	61.600	30 or 17+10log(B)= 29.26	PASS
100	5500	12.90	4.005	16.91	49.060	30 or 17+10log(B)= 29.25	PASS
116	5580	13.86	4.005	17.86	61.132	30 or 17+10log(B)= 29.27	PASS
140	5700	12.90	4.005	16.90	48.997	30 or 17+10log(B)= 29.26	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	13.92	1.000	14.92	31.058	23.01 or 10+10log(B)= 22.56	PASS
44	5220	14.88	1.000	15.88	38.741	23.01 or 10+10log(B)= 22.55	PASS
48	5240	14.94	1.000	15.94	39.280	23.01 or 10+10log(B)= 22.57	PASS
52	5260	13.91	0.980	14.89	30.844	30 or 17+10log(B)= 29.57	PASS
60	5300	14.92	0.980	15.90	38.920	30 or 17+10log(B)= 29.55	PASS
64	5320	13.88	0.980	14.86	30.632	30 or 17+10log(B)= 29.56	PASS
100	5500	12.91	0.990	13.90	24.557	30 or 17+10log(B)= 29.55	PASS
116	5580	13.88	0.990	14.87	30.702	30 or 17+10log(B)= 29.54	PASS
140	5700	12.91	0.990	13.90	24.557	30 or 17+10log(B)= 29.57	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.96	0.990	14.95	31.273	23.01 or 10+10log(B)= 22.55	PASS
44	5220	14.98	0.990	15.97	39.552	23.01 or 10+10log(B)= 22.55	PASS
48	5240	14.97	0.990	15.96	39.461	23.01 or 10+10log(B)= 22.55	PASS
52	5260	13.96	0.980	14.94	31.201	30 or 17+10log(B)= 29.58	PASS
60	5300	14.98	0.980	15.96	39.461	30 or 17+10log(B)= 29.58	PASS
64	5320	13.98	0.980	14.96	31.345	30 or 17+10log(B)= 29.57	PASS
100	5500	12.96	1.000	13.96	24.898	30 or 17+10log(B)= 29.59	PASS
116	5580	13.95	1.000	14.95	31.273	30 or 17+10log(B)= 29.56	PASS
140	5700	12.98	1.000	13.98	25.013	30 or 17+10log(B)= 29.57	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.92	4.005	17.92	61.988	23.01 or 10+10log(B)= 22.55	PASS
44	5220	14.92	4.005	18.93	78.149	23.01 or 10+10log(B)= 22.55	PASS
48	5240	14.92	4.005	18.93	78.075	23.01 or 10+10log(B)= 22.55	PASS
52	5260	13.93	3.990	17.92	61.959	30 or 17+10log(B)= 29.57	PASS
60	5300	14.94	3.990	18.93	78.181	30 or 17+10log(B)= 29.55	PASS
64	5320	13.94	3.990	17.93	62.090	30 or 17+10log(B)= 29.56	PASS
100	5500	12.92	4.005	16.93	49.320	30 or 17+10log(B)= 29.55	PASS
116	5580	13.88	4.005	17.89	61.463	30 or 17+10log(B)= 29.54	PASS
140	5700	12.92	4.005	16.92	49.211	30 or 17+10log(B)= 29.57	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	10.92	1.000	11.92	15.549	23.01	or $10+10\log(B)=$	25.60	PASS
46	5230	14.78	1.000	15.78	37.818	23.01	or $10+10\log(B)=$	25.60	PASS
54	5270	14.82	0.980	15.80	37.993	30	or $17+10\log(B)=$	32.59	PASS
62	5310	10.91	0.980	11.89	15.442	30	or $17+10\log(B)=$	32.60	PASS
102	5510	10.59	0.990	11.58	14.378	30	or $17+10\log(B)=$	32.59	PASS
110	5550	13.81	0.990	14.80	30.179	30	or $17+10\log(B)=$	32.59	PASS
134	5670	13.84	0.990	14.83	30.388	30	or $17+10\log(B)=$	32.60	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
38	5190	10.97	0.990	11.96	15.693	23.01	or $10+10\log(B)=$	25.60	PASS
46	5230	14.96	0.990	15.95	39.328	23.01	or $10+10\log(B)=$	25.60	PASS
54	5270	14.95	0.980	15.93	39.148	30	or $17+10\log(B)=$	32.59	PASS
62	5310	10.96	0.980	11.94	15.621	30	or $17+10\log(B)=$	32.59	PASS
102	5510	10.97	1.000	11.97	15.729	30	or $17+10\log(B)=$	32.60	PASS
110	5550	13.95	1.000	14.95	31.240	30	or $17+10\log(B)=$	32.62	PASS
134	5670	13.99	1.000	14.99	31.529	30	or $17+10\log(B)=$	32.60	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
38	5190	10.90	4.005	14.90	30.917	23.01	or $10+10\log(B)=$	25.60	PASS
46	5230	14.90	4.005	18.90	77.632	23.01	or $10+10\log(B)=$	25.60	PASS
54	5270	14.88	3.990	18.87	77.037	30	or $17+10\log(B)=$	32.59	PASS
62	5310	10.94	3.990	14.93	31.136	30	or $17+10\log(B)=$	32.59	PASS
102	5510	10.84	4.005	14.85	30.530	30	or $17+10\log(B)=$	32.59	PASS
110	5550	13.83	4.005	17.84	60.805	30	or $17+10\log(B)=$	32.59	PASS
134	5670	13.82	4.005	17.83	60.628	30	or $17+10\log(B)=$	32.60	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	10.92	1.000	11.92	15.543	23.01	or 10+10log(B)=	28.75	PASS
58	5290	10.77	0.980	11.75	14.947	30	or 17+10log(B)=	35.75	PASS
106	5530	10.76	0.990	11.75	14.947	30	or 17+10log(B)=	35.75	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
42	5210	10.98	0.990	11.97	15.723	23.01	or 10+10log(B)=	28.72	PASS
58	5290	10.94	0.980	11.92	15.543	30	or 17+10log(B)=	35.77	PASS
106	5530	10.95	1.000	11.95	15.651	30	or 17+10log(B)=	35.78	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
42	5210	10.93	4.005	14.93	31.135	23.01	or 10+10log(B)=	28.72	PASS
58	5290	10.86	3.990	14.85	30.543	30	or 17+10log(B)=	35.75	PASS
106	5530	10.86	4.005	14.86	30.635	30	or 17+10log(B)=	35.75	PASS

802.11ac_VHT160_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
50	5250	10.92	0.980	11.90	15.499	30	or 17+10log(B)=	38.86	PASS
114	5570	10.88	0.990	11.87	15.399	30	or 17+10log(B)=	38.07	PASS

802.11ac_VHT160_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
50	5250	10.99	0.980	11.97	15.728	30	or 17+10log(B)=	38.77	PASS
114	5570	10.95	1.000	11.95	15.656	30	or 17+10log(B)=	38.85	PASS

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802.11ac_VHT160_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
50	5250	10.92	3.990	14.91	30.997	30	or $17+10\log(B)=$	38.77	PASS
114	5570	10.88	4.005	14.89	30.833	30	or $17+10\log(B)=$	38.07	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

$$= 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] \text{ dBi}$$

[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.]

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	Effective Legacy Gain (dBi)	PSD Limit	
UNII-1	1.00	11.00	dBm/MHz
UNII-2A	0.98	11.00	dBm/MHz
U-NII-2C	1.00	11.00	dBm/MHz
U-NII-3	0.99	30.00	dBm/500 kHz

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 $\geq$ 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. Use 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.

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

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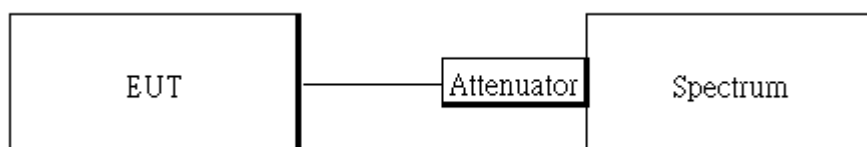
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10.3 Measurement Equipment Used

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	2018/11/21	2019/11/20
DC Power Supply	Agilent	E3640A	KR93300208	2018/08/15	2019/08/14
DC Block	PASTERNAK	PE8210	RF29	2019/02/26	2020/02/25
Attenuator	Marvelous	MVE2213-10	RF80	2019/02/26	2020/02/25

10.4 Test Set-up



10.5 Measurement Result

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	-6.45	0.71	-5.74	11	-16.74
5220	-3.85	0.71	-3.14	11	-14.14
5240	-4.66	0.71	-3.95	11	-14.95
5260	-6.83	0.71	-6.12	11	-17.12
5300	-7.86	0.71	-7.15	11	-18.15
5320	-6.74	0.71	-6.03	11	-17.03
5500	-8.80	0.71	-8.09	11	-19.09
5580	-6.91	0.71	-6.20	11	-17.20
5700	-8.51	0.71	-7.80	11	-18.80
5745	5.31	-	5.31	30	-24.69
5785	4.52	-	4.52	30	-25.48
5825	4.55	-	4.55	30	-25.45

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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	-7.45	0.74	-6.71	11	-17.71
5220	-5.35	0.74	-4.61	11	-15.61
5240	-4.43	0.74	-3.69	11	-14.69
5260	-6.70	0.74	-5.96	11	-16.96
5300	-6.26	0.74	-5.52	11	-16.52
5320	-8.85	0.74	-8.11	11	-19.11
5500	-6.62	0.74	-5.88	11	-16.88
5580	-7.67	0.74	-6.93	11	-17.93
5700	-2.89	0.74	-2.15	11	-13.15
5720 (U-NII 2C)	-13.82	0.74	-13.08	11	-24.08
5720 (U-NII 3)	-16.20	0.74	-15.46	30	-45.46
5745	2.19	-	2.19	30	-27.81
5785	4.23	-	4.23	30	-25.77
5825	4.38	-	4.38	30	-25.62

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	-13	0.77	-12.23	11	-23.23
5230	-8.72	0.77	-7.95	11	-18.95
5270	-6.56	0.77	-5.79	11	-16.79
5310	-12.15	0.77	-11.38	11	-22.38
5510	-11.16	0.77	-10.39	11	-21.39
5550	-8.53	0.77	-7.76	11	-18.76
5670	-8.35	0.77	-7.58	11	-18.58
5710 (U-NII 2C)	-10.82	0.77	-10.05	11	-21.05
5710 (U-NII 3)	-11.76	0.77	-10.99	30	-40.99
5755	1.41	-	1.41	30	-28.59
5795	1.11	-	1.11	30	-28.89

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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	-10.50	0.83	-9.67	11	-20.67
5290	-12.22	0.83	-11.39	11	-22.39
5530	-11.13	0.83	-10.30	11	-21.30
5610	-6.51	0.83	-5.68	11	-16.68
5690 (U-NII 2C)	-114.00	0.83	-113.17	11	-124.17
5690 (U-NII 3)	-15.43	0.83	-14.60	30	-44.60
5775	-0.06	-	-0.06	30	-30.06

POWER DENSITY 802.11ac VHT160 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5250	-15.14	1.27	-13.87	11	-24.87
5570	-16.80	1.27	-15.53	11	-26.53

EIRP spectral density 802.11a MODE						EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-5.74	1.00	-4.74	10	-14.74	5180	-6.71	1.00	-5.71	10	-15.71
5220	-3.14	1.00	-2.14	10	-12.14	5220	-4.61	1.00	-3.61	10	-13.61
5240	-3.95	1.00	-2.95	10	-12.95	5240	-3.69	1.00	-2.69	10	-12.69

EIRP spectral density 802.11n HT40 MODE						EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-12.23	1.00	-11.23	10	-21.23	5210	-9.67	1.00	-8.67	10	-18.67
5220	-7.95	1.00	-6.95	10	-16.95						

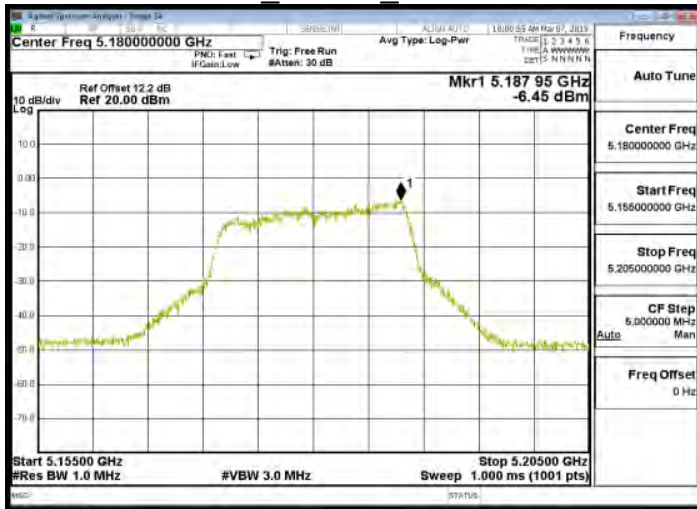
EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5250	-13.87	1.00	-12.87	10	-22.87

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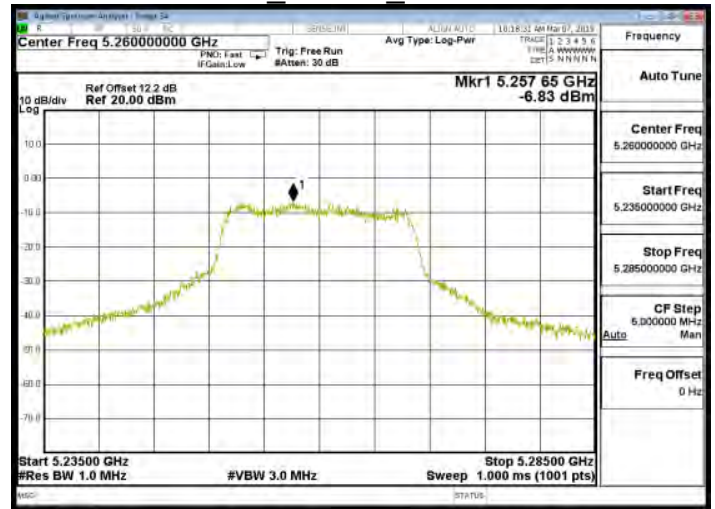
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802.11a 20MHz 5180MHz



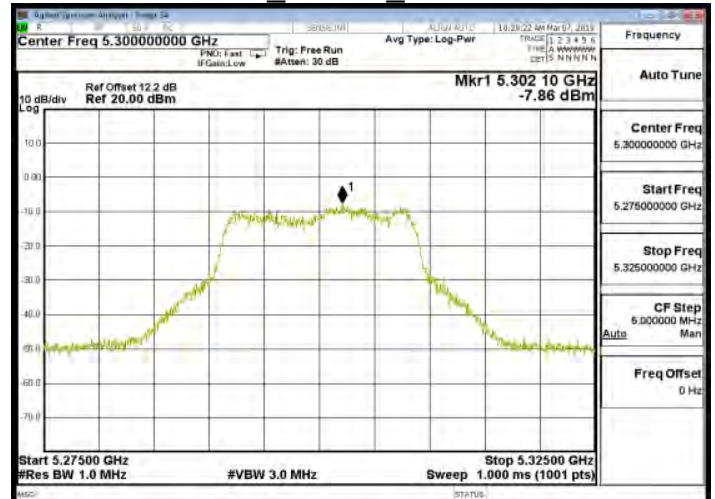
802.11a 20MHz 5260MHz



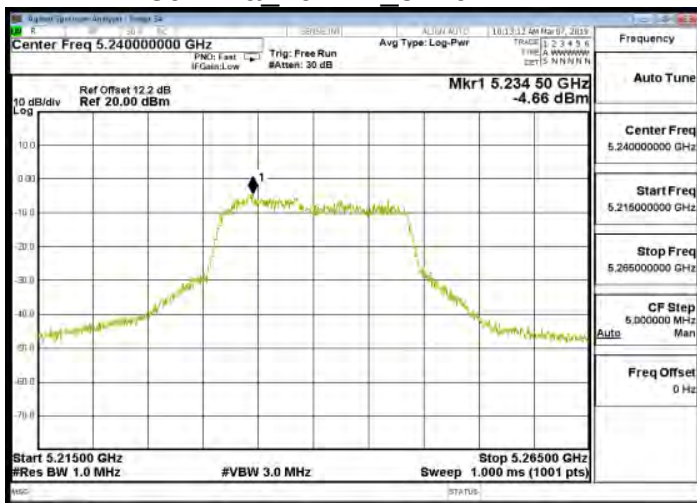
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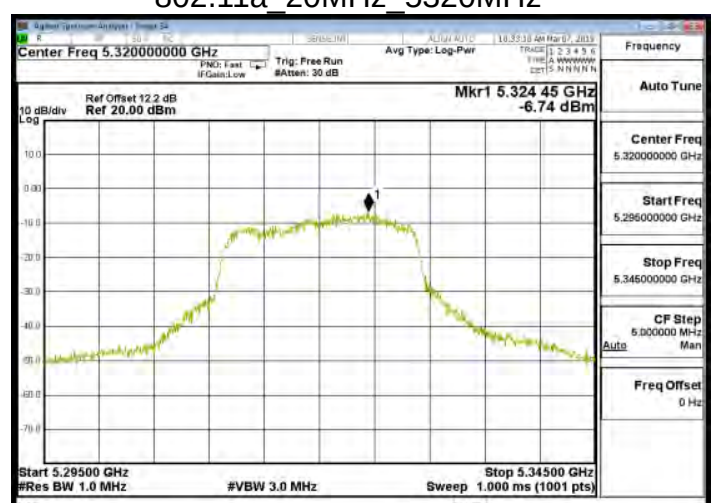
802.11a 20MHz 5300MHz



802.11a 20MHz 5240MHz



802.11a 20MHz 5320MHz

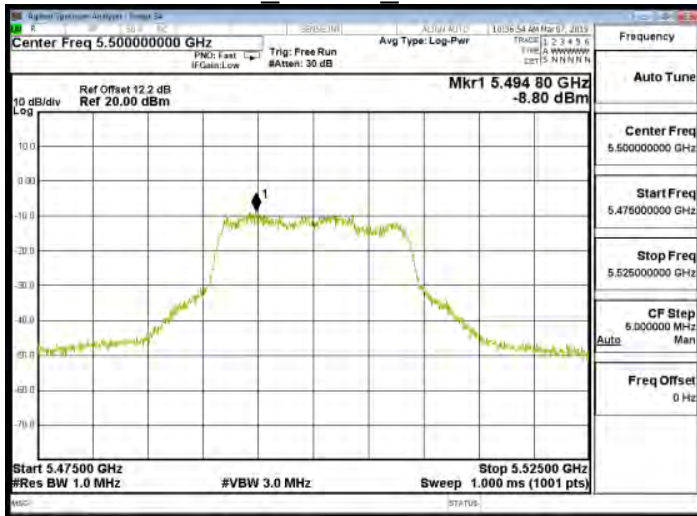


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802.11a 20MHz 5500MHz



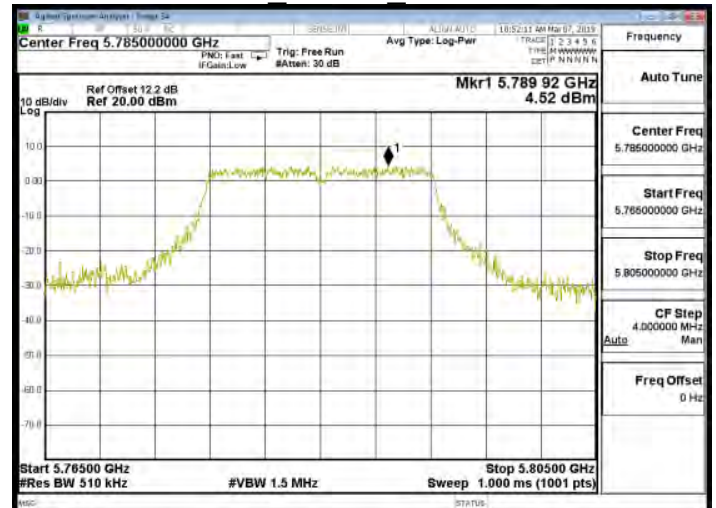
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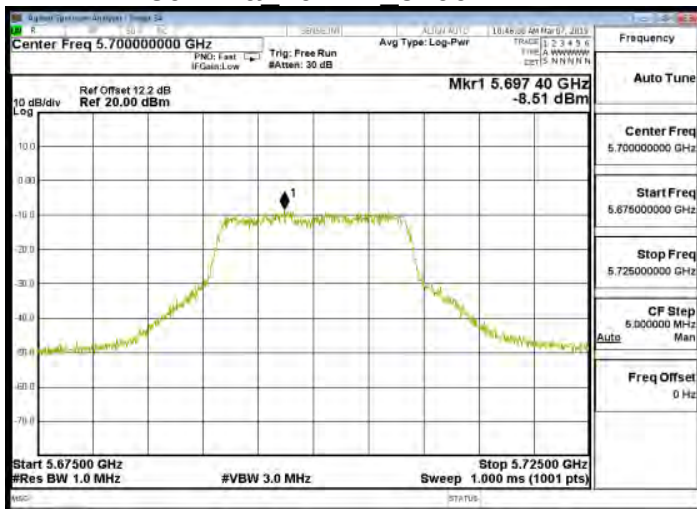
802.11a 20MHz 5580MHz



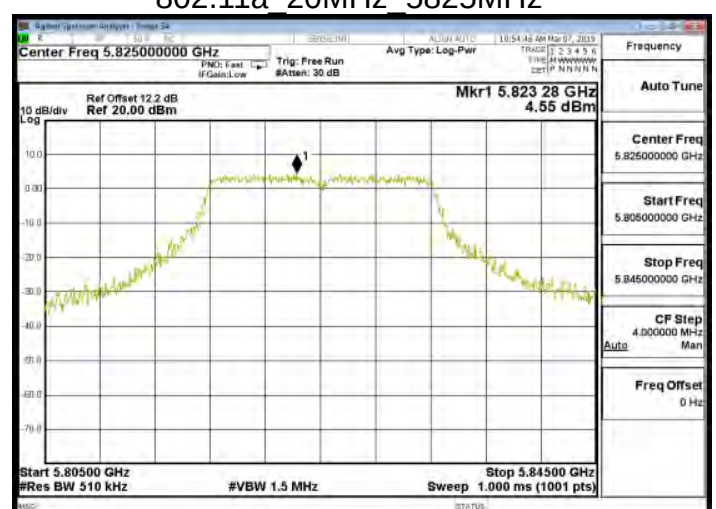
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802.11a 20MHz 5700MHz



802.11a 20MHz 5825MHz

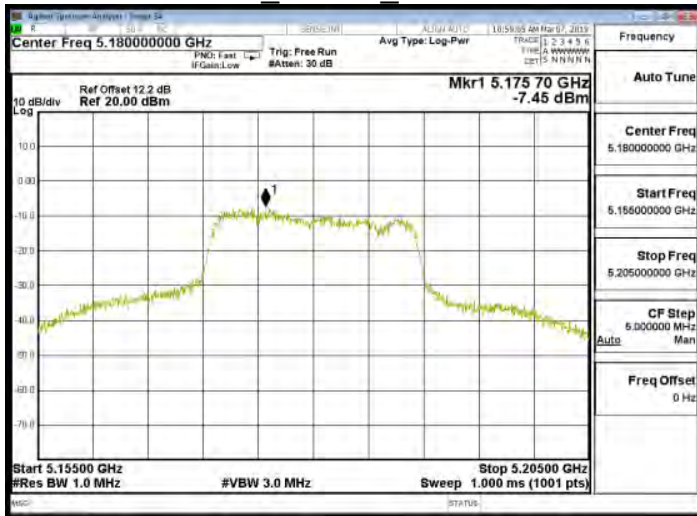


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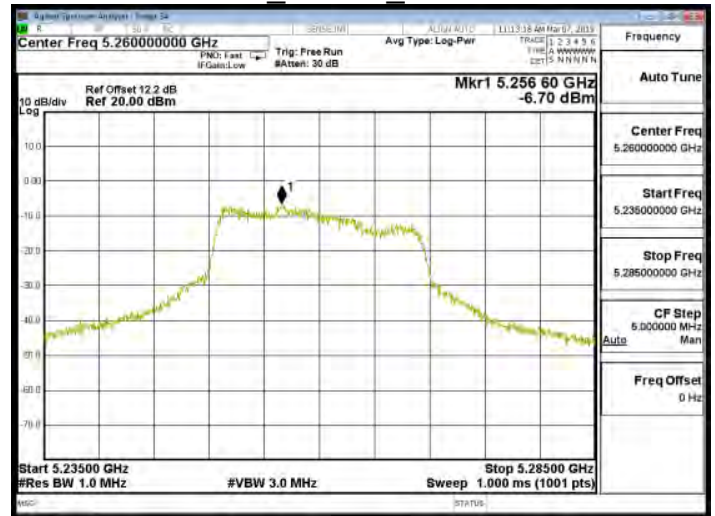
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802.11n 20MHz 5180MHz



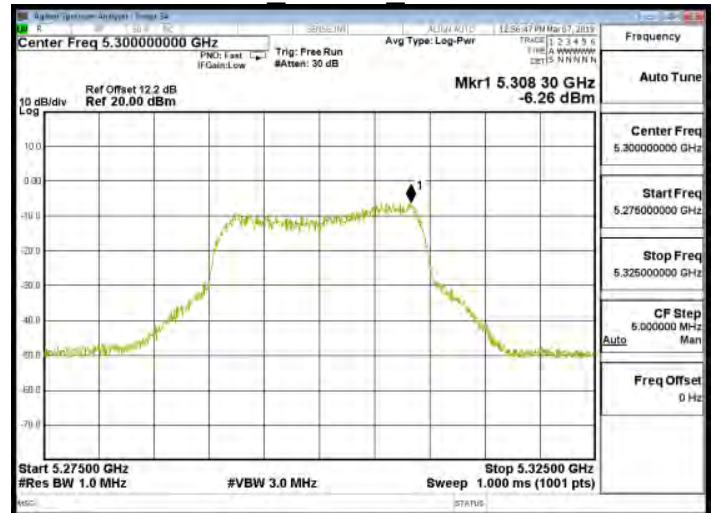
802.11n 20MHz 5260MHz



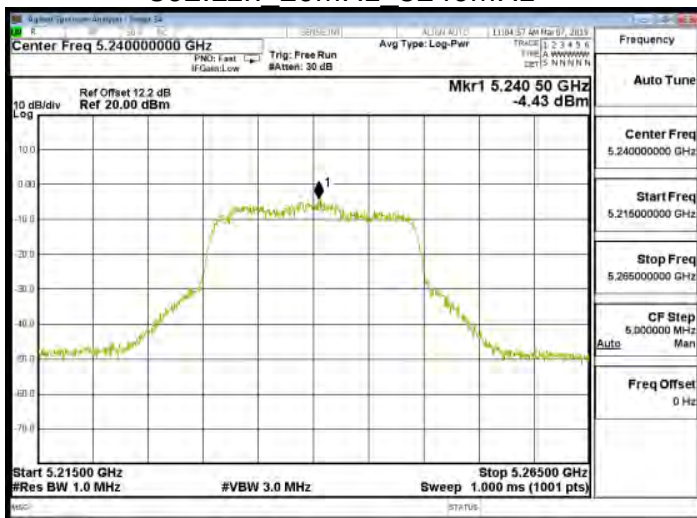
802.11n 20MHz 5220MHz



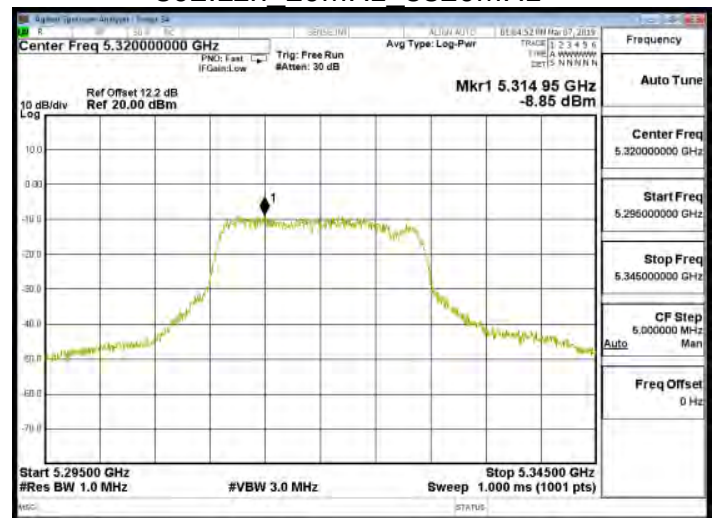
802.11n 20MHz 5300MHz



802.11n 20MHz 5240MHz



802.11n 20MHz 5320MHz

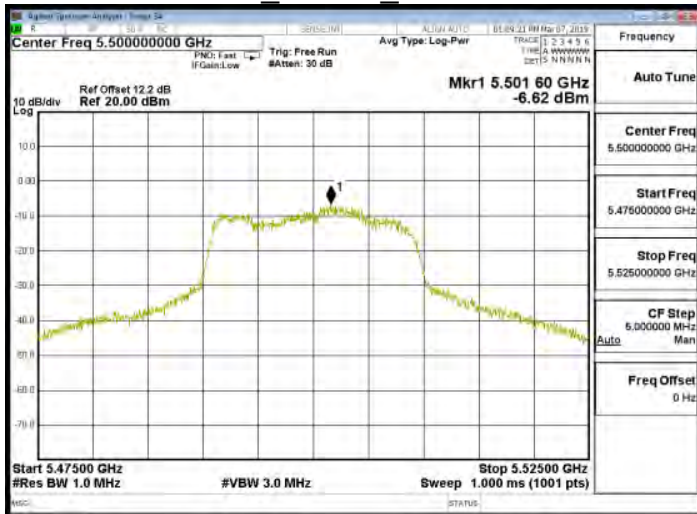


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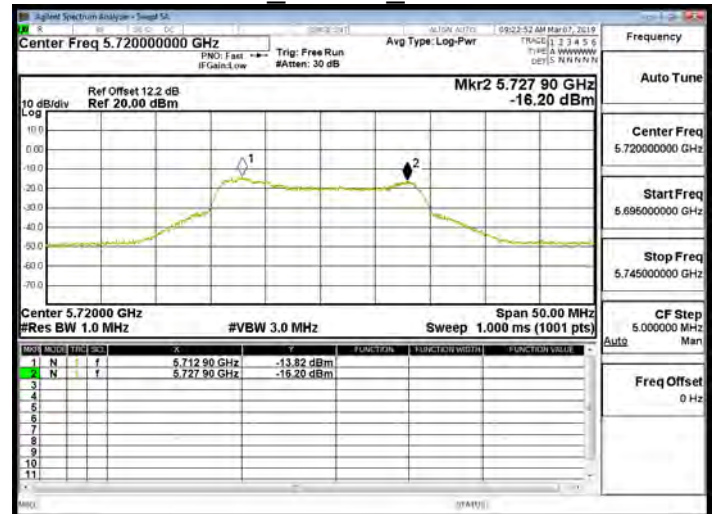
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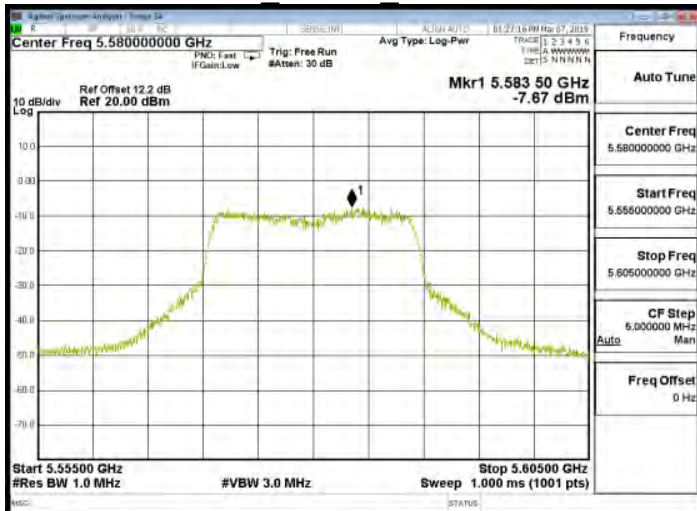
802.11n 20MHz 5500MHz



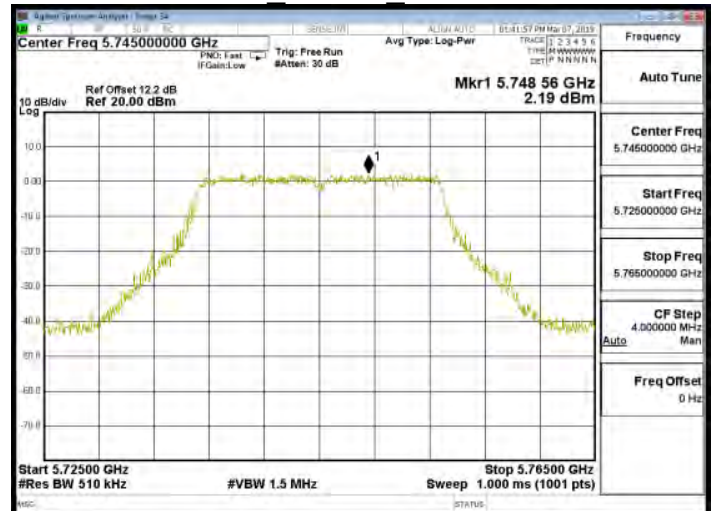
802.11n 20MHz 5720MHz



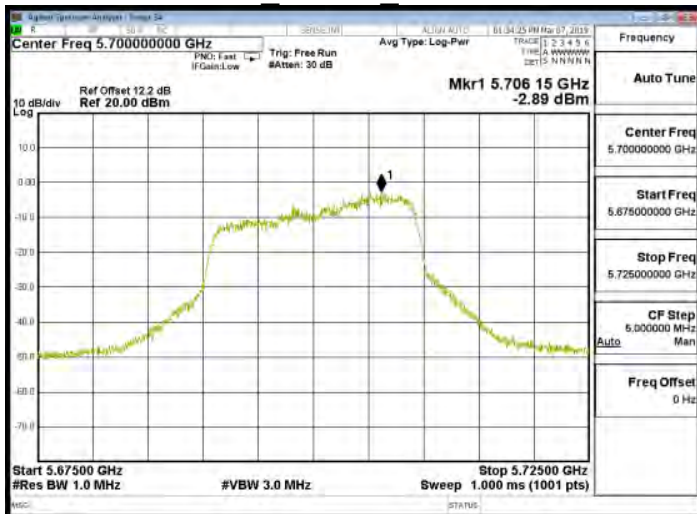
802.11n 20MHz 5580MHz



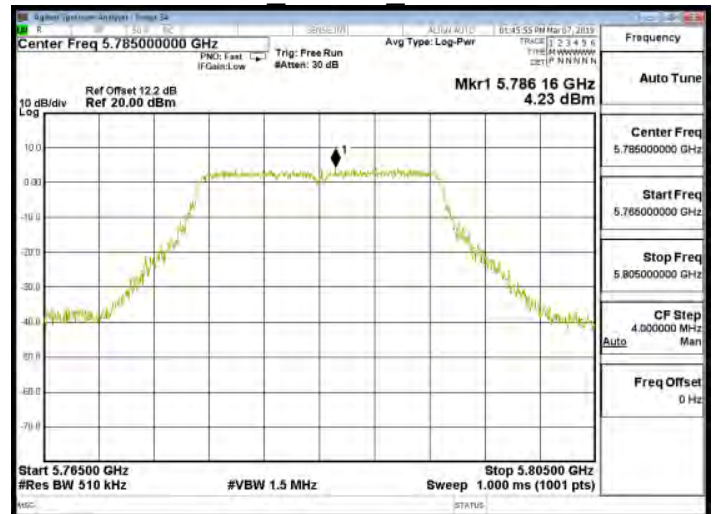
802.11n 20MHz 5745MHz



802.11n 20MHz 5700MHz



802.11n 20MHz 5785MHz

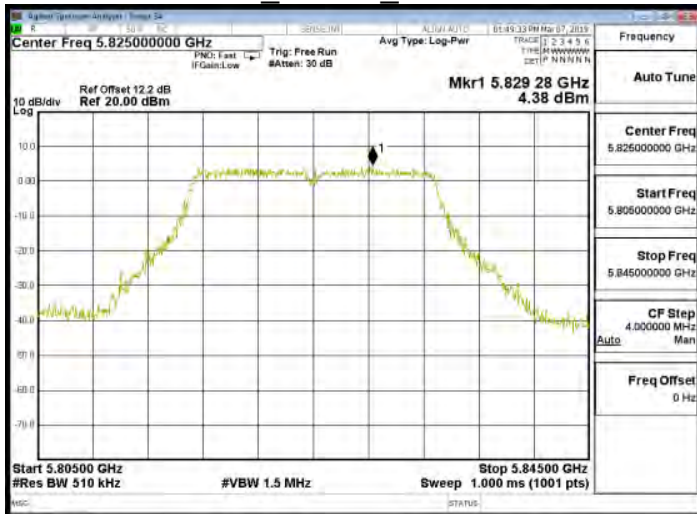


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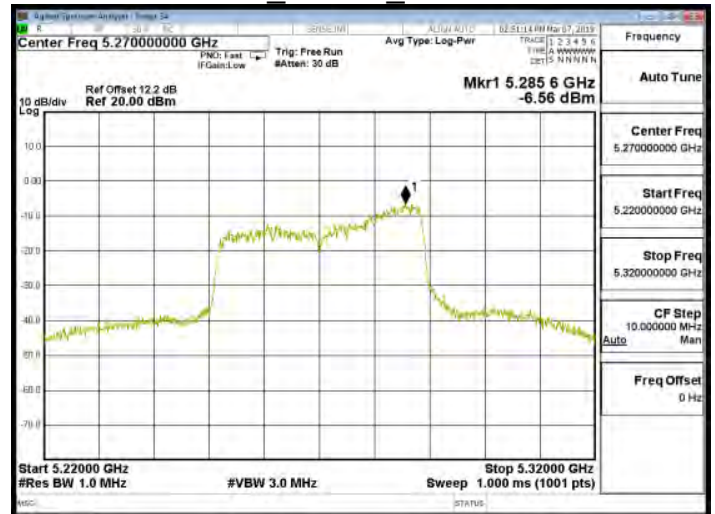
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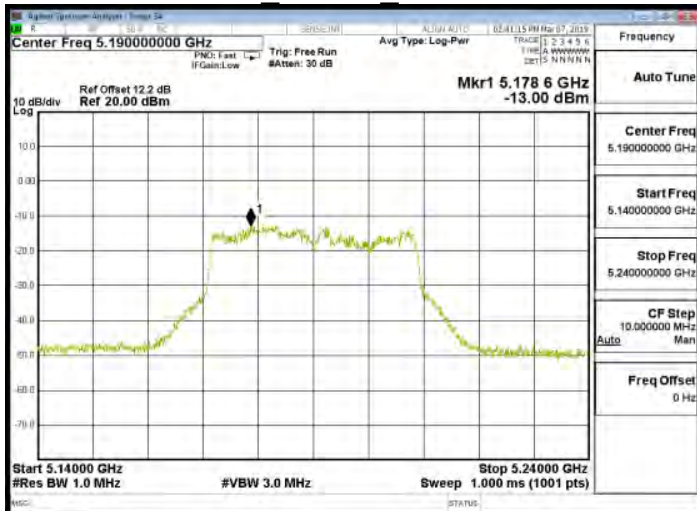
802.11n 20MHz 5825MHz



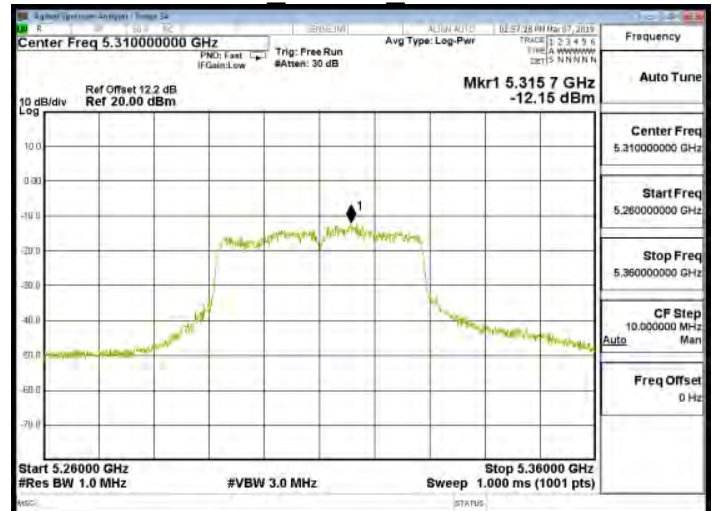
802.11n 40MHz 5270MHz



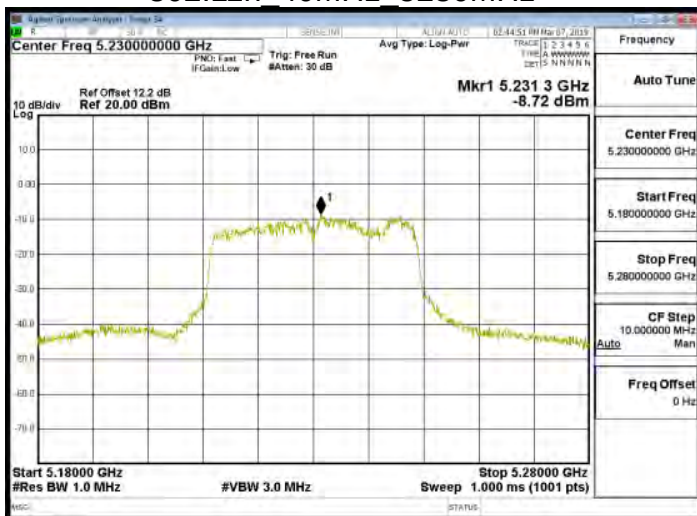
802.11n 40MHz 5190MHz



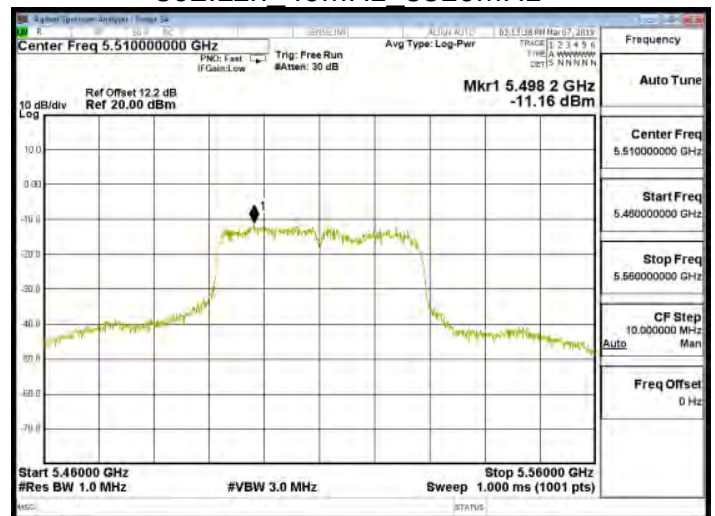
802.11n 40MHz 5310MHz



802.11n 40MHz 5230MHz



802.11n 40MHz 5510MHz



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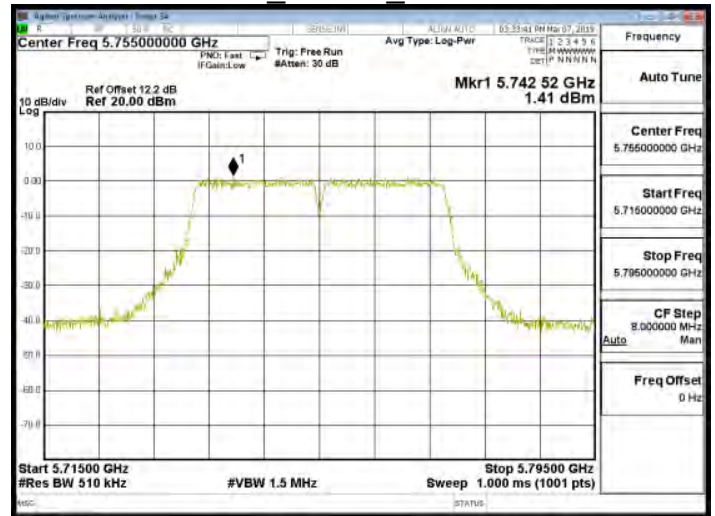
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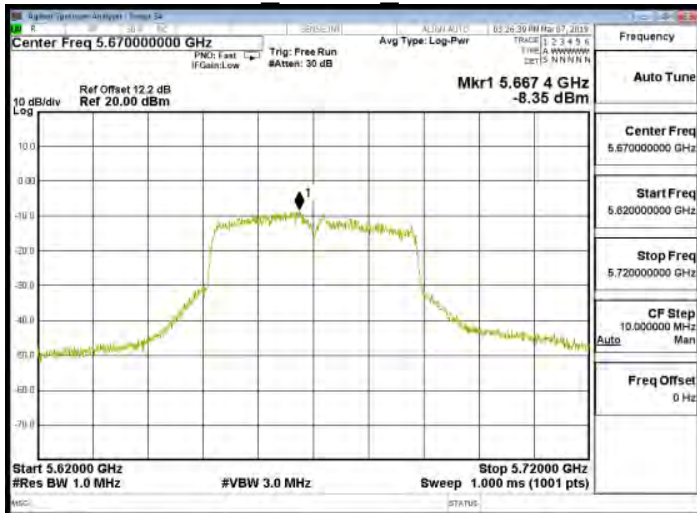
802.11n 40MHz 5550MHz



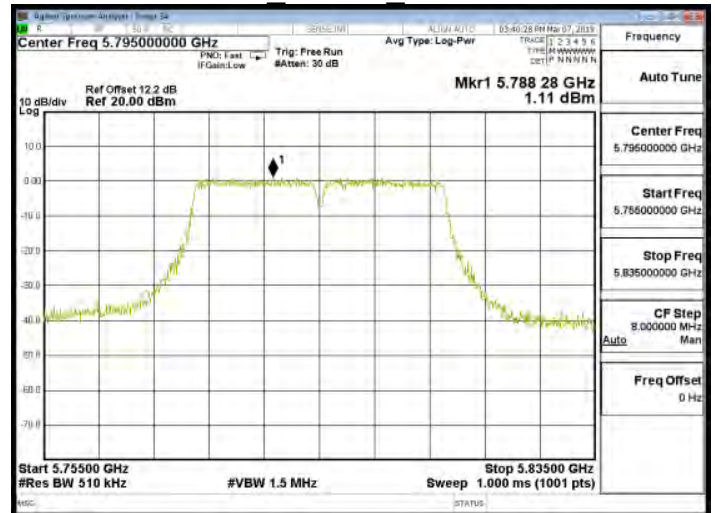
802.11n 40MHz 5755MHz



802.11n 40MHz 5670MHz



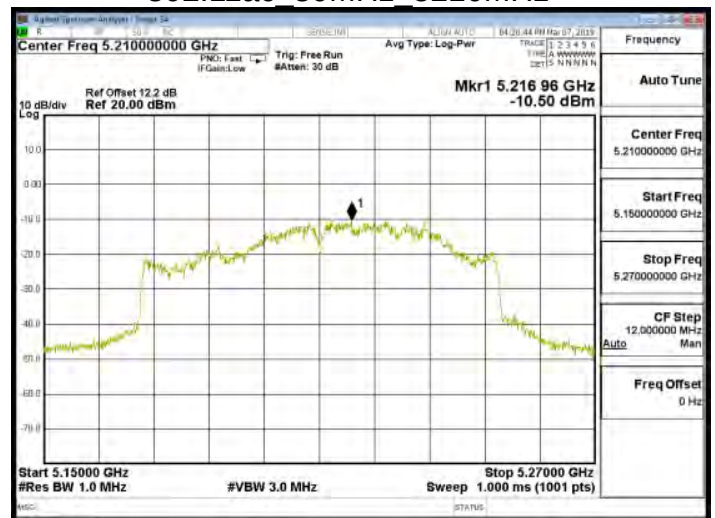
802.11n 40MHz 5795MHz



802.11n 40MHz 5710MHz



802.11ac 80MHz 5210MHz

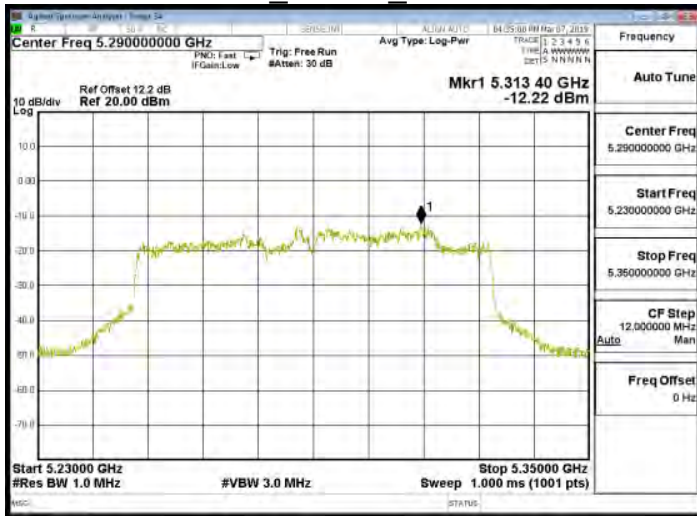


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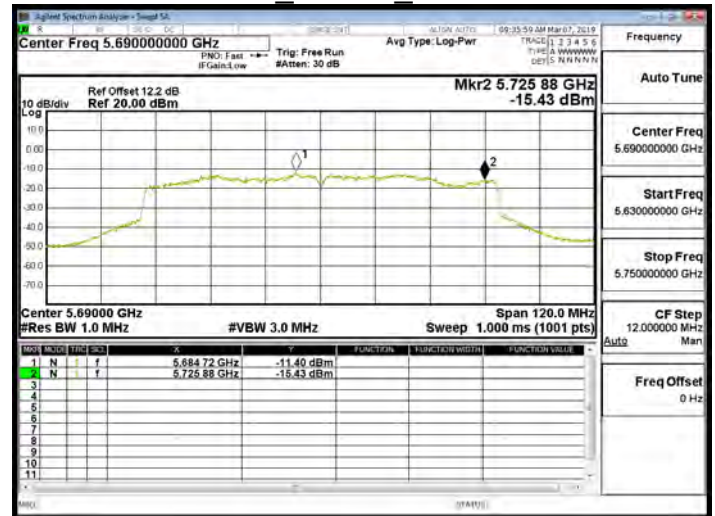
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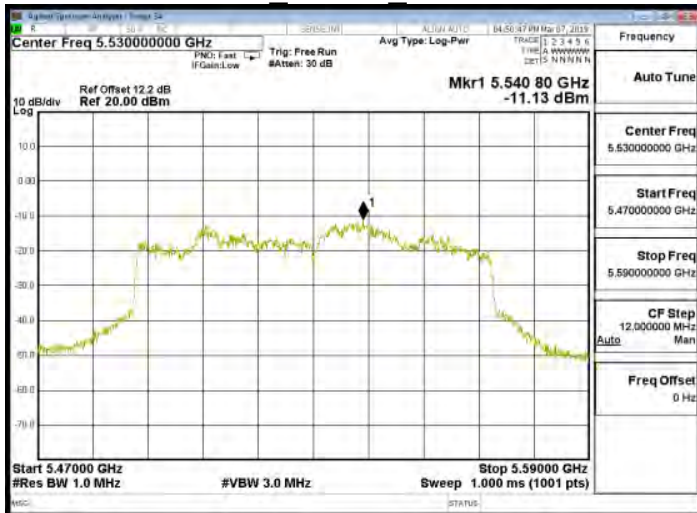
802.11ac 80MHz 5290MHz



802.11ac 80MHz 5690MHz



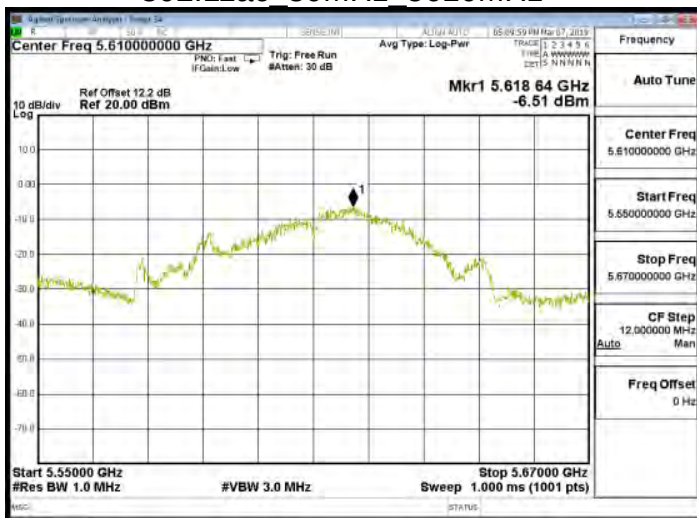
802.11ac 80MHz 5530MHz



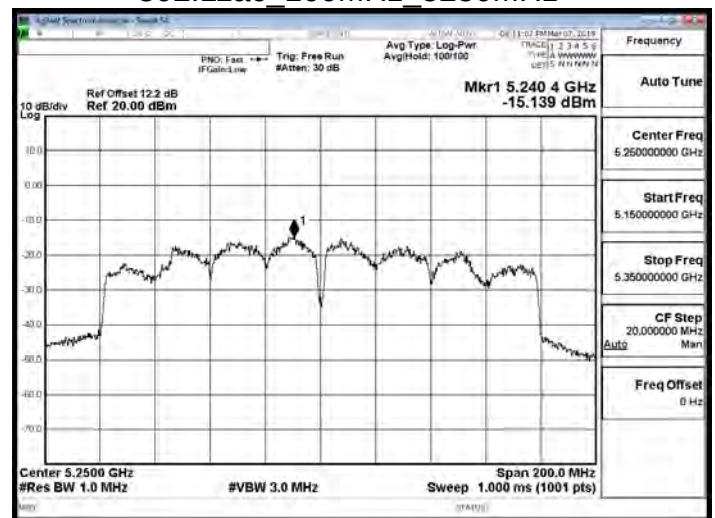
802.11ac 80MHz 5775MHz



802.11ac 80MHz 5610MHz



802.11ac 160MHz 5250MHz

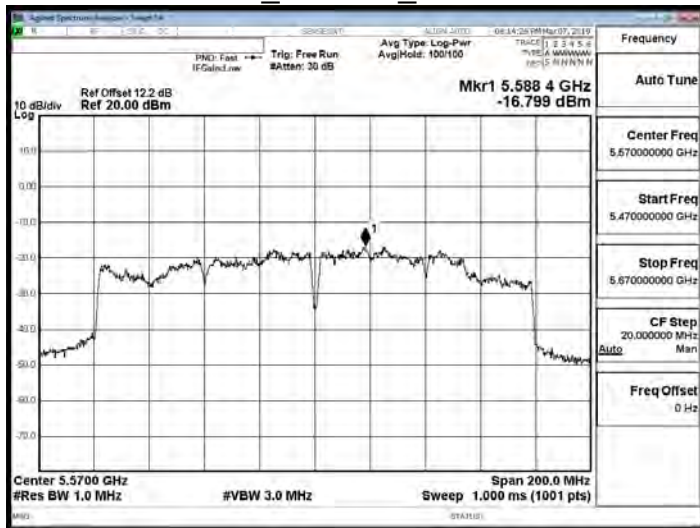


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802.11ac_160MHz_5570MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

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	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)
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
*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.		

$EIRP = (E \cdot d)^2 / 30$, 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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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 (dBμV/m) = 20 log Emission level (dBμV/m)

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11.2 Measurement Equipment Used

SGS SAC-III					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bilog Antenna	Sunol Sciences	JB3	A030105	2018/07/13	2019/07/12
Cable	HUBER SU-HNER	SUCOFLEX 104PEA	25157	2019/02/26	2020/02/25
Cable	HUBER SU-HNER	SUCOFLEX 104PEA	20995	2019/02/26	2020/02/25
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	2019/01/30	2020/01/29
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	2018/08/20	2019/08/19
High Pass Filter	WI	WHKX7.0/18G-8SS	45	2019/02/26	2020/02/25
Horn Antenna	ETS LINDGREN	3116	00026370	2018/12/26	2019/12/25
Loop Antenna	ETS.LINDGREN	6502	148045	2018/10/08	2019/10/07
Pre-Amplifier	EMEC	EM330	060609	2019/02/26	2020/02/25
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	2019/02/26	2020/02/25
Pre-Amplifier	HP	8449B	3008A00965	2019/02/26	2020/02/25
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	2018/05/31	2019/05/30
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

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

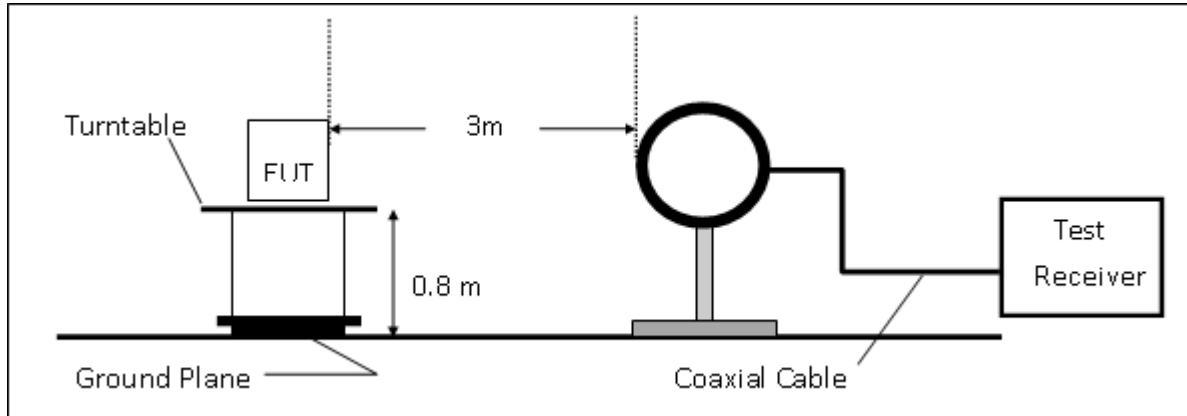
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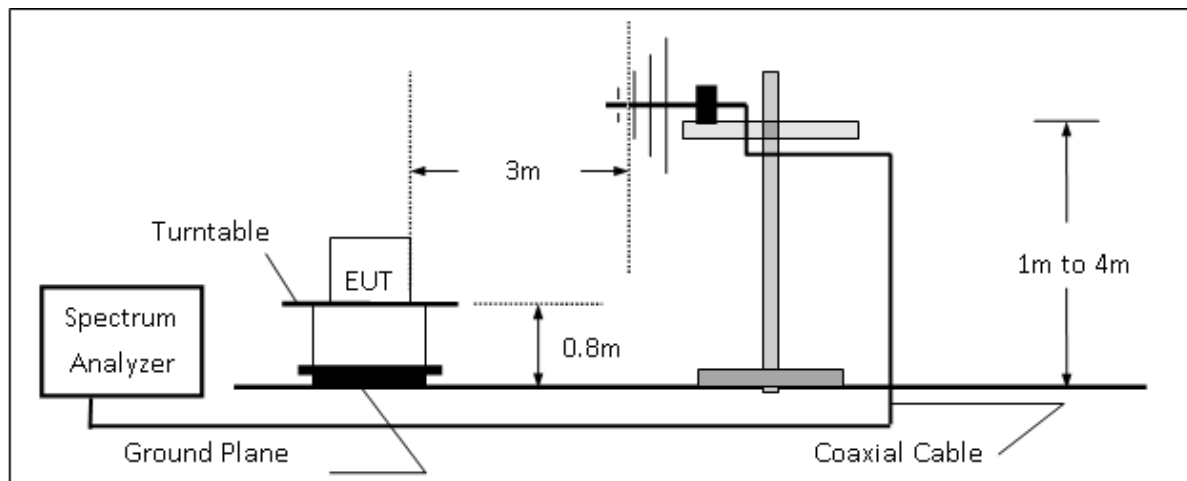
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11.3 Test SET-UP

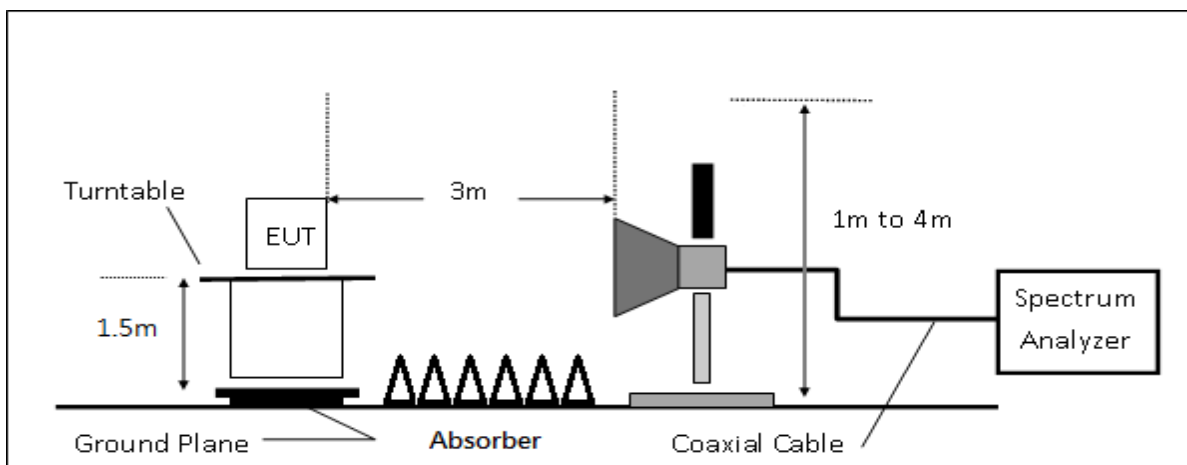
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 ≥ 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.

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	

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

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

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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.

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11.7 Measurement Result

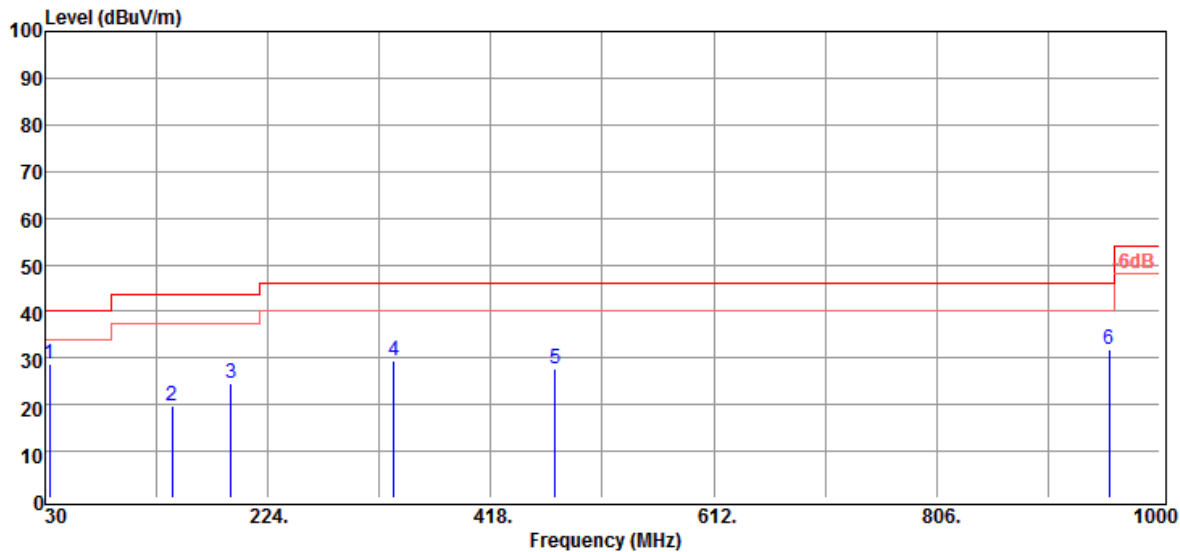
Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :802.11a / Band 1
 Test Mode :TX CH MID
 EUT Pol :H Plan
 Test Channel :5220 MHz

Test Date :2019-03-13
 Temp./Humi. :22/57
 Antenna Pol. :VERTICAL
 Engineer :Jerry



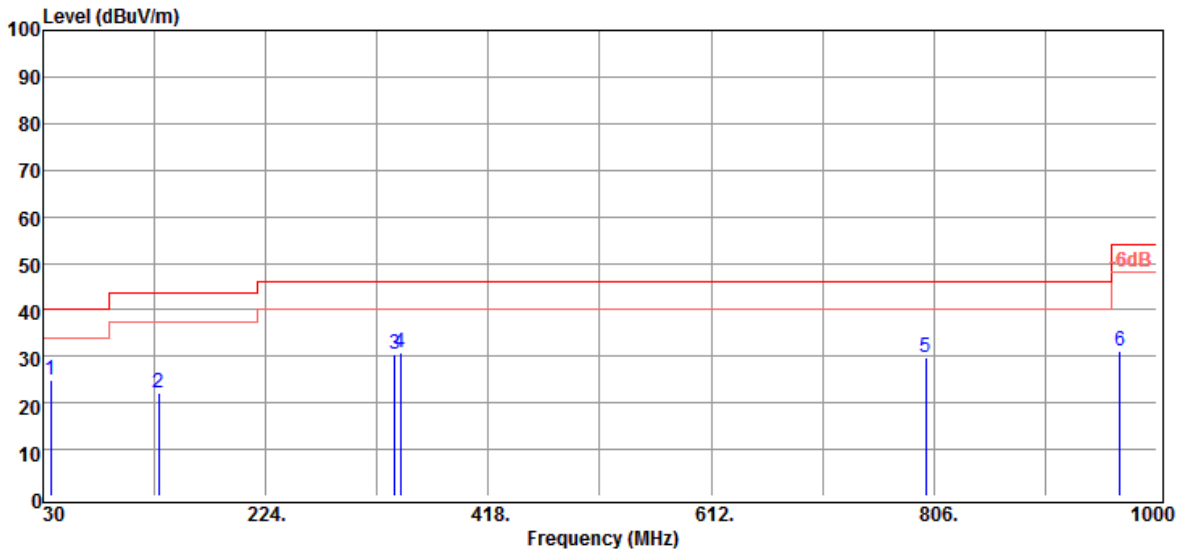
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.88	Peak	32.80	-4.13	28.67	40.00	-11.33
140.58	Peak	29.04	-9.18	19.86	43.50	-23.64
191.99	Peak	34.48	-9.93	24.55	43.50	-18.95
333.61	Peak	35.75	-6.43	29.32	46.00	-16.68
474.26	Peak	29.97	-2.19	27.78	46.00	-18.22
956.35	Peak	25.96	5.80	31.76	46.00	-14.24

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Operation Mode	:802.11a / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Jerry



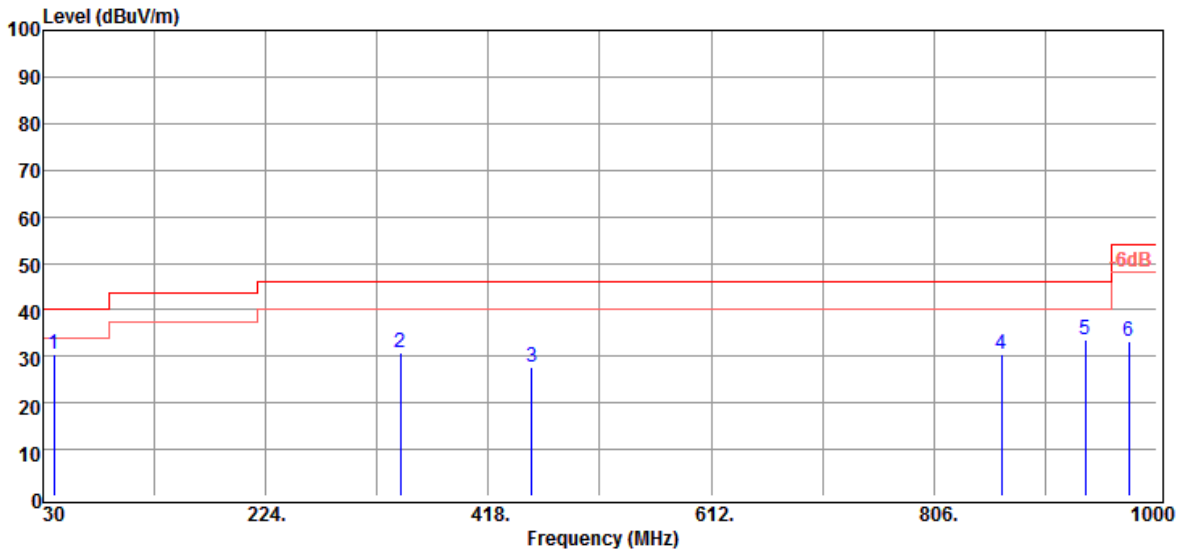
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.79	Peak	31.17	-6.42	24.75	40.00	-15.25
130.88	Peak	30.63	-8.52	22.11	43.50	-21.39
336.52	Peak	37.02	-6.48	30.54	46.00	-15.46
341.37	Peak	37.32	-6.44	30.88	46.00	-15.12
799.21	Peak	26.97	2.87	29.84	46.00	-16.16
967.99	Peak	24.77	6.46	31.23	54.00	-22.77

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802.11a 5250~5350 MHz

Operation Mode :802.11a / Band 2
 Test Mode :TX CH MID
 EUT Pol :H Plan
 Test Channel :5300 MHz

Test Date :2019-03-13
 Temp./Humi. :24/59
 Antenna Pol. :VERTICAL
 Engineer :Jerry



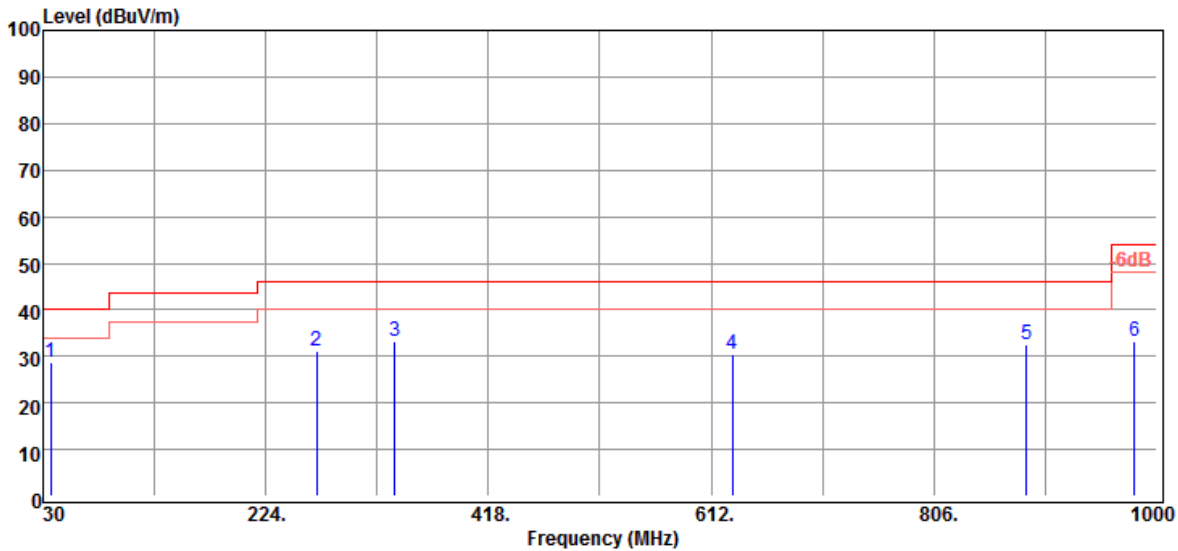
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.70	Peak	38.91	-8.62	30.29	40.00	-9.71
341.37	Peak	37.15	-6.44	30.71	46.00	-15.29
455.83	Peak	30.60	-2.86	27.74	46.00	-18.26
865.17	Peak	26.32	4.00	30.32	46.00	-15.68
937.92	Peak	28.64	5.06	33.70	46.00	-12.30
975.75	Peak	26.59	6.64	33.23	54.00	-20.77

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Operation Mode	:802.11a / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5300 MHz	Engineer	:Jerry



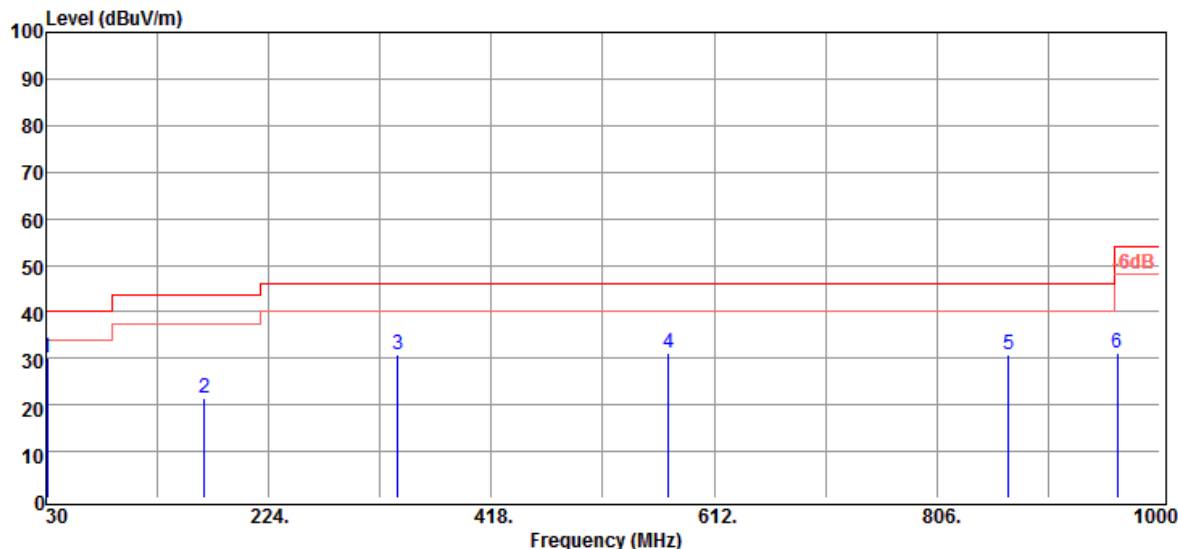
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.79	Peak	35.23	-6.42	28.81	40.00	-11.19
268.62	Peak	39.06	-7.95	31.11	46.00	-14.89
336.52	Peak	39.86	-6.48	33.38	46.00	-12.62
630.43	Peak	29.42	0.86	30.28	46.00	-15.72
886.51	Peak	28.24	4.43	32.67	46.00	-13.33
980.60	Peak	26.49	6.60	33.09	54.00	-20.91

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802.11a, 5470~5725 MHz

Operation Mode :802.11a / Band 3
 Test Mode :TX CH MID
 EUT Pol :H Plan
 Test Channel :5580 MHz

Test Date :2019-03-13
 Temp./Humi. :22/57
 Antenna Pol. :VERTICAL
 Engineer :Jerry



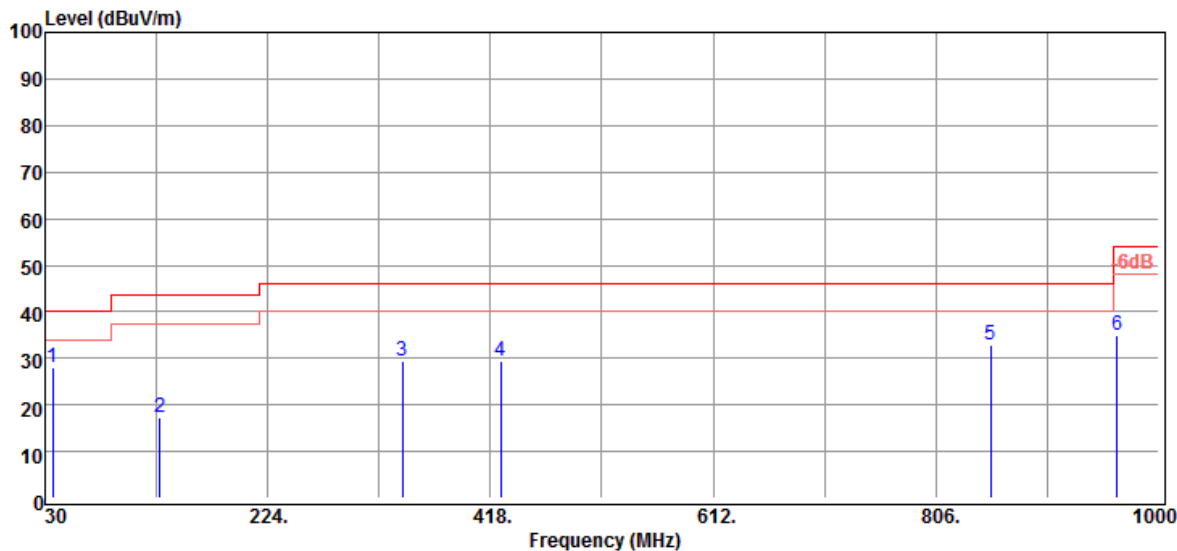
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	32.26	-2.00	30.26	40.00	-9.74
167.74	Peak	31.45	-9.90	21.55	43.50	-21.95
336.52	Peak	37.15	-6.48	30.67	46.00	-15.33
572.23	Peak	32.44	-1.38	31.06	46.00	-14.94
868.08	Peak	26.84	3.94	30.78	46.00	-15.22
963.14	Peak	25.08	6.05	31.13	54.00	-22.87

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Operation Mode	:802.11a / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5580 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.79	Peak	34.53	-6.42	28.11	40.00	-11.89
129.91	Peak	25.78	-8.45	17.33	43.50	-26.17
341.37	Peak	35.84	-6.44	29.40	46.00	-16.60
426.73	Peak	33.29	-4.04	29.25	46.00	-16.75
853.53	Peak	28.60	4.10	32.70	46.00	-13.30
964.11	Peak	29.01	6.10	35.11	54.00	-18.89

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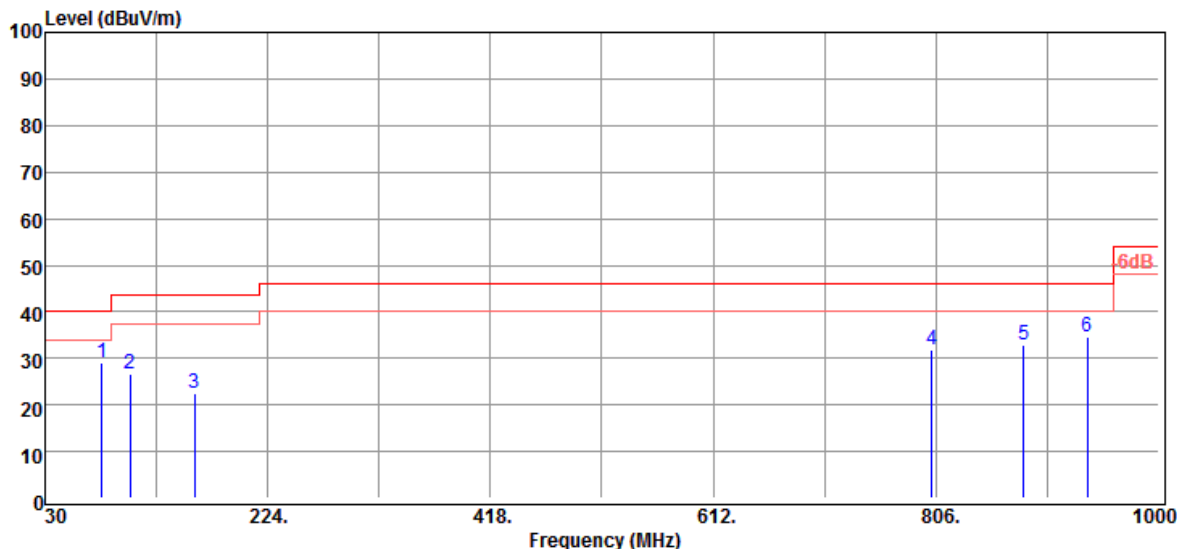
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802.11a, 5725~5850 MHz

Operation Mode :802.11a / Band 4
 Test Mode :TX CH MID
 EUT Pol :H Plan
 Test Channel :5785 MHz

Test Date :2019-03-13
 Temp./Humi. :22/57
 Antenna Pol. :VERTICAL
 Engineer :Jerry



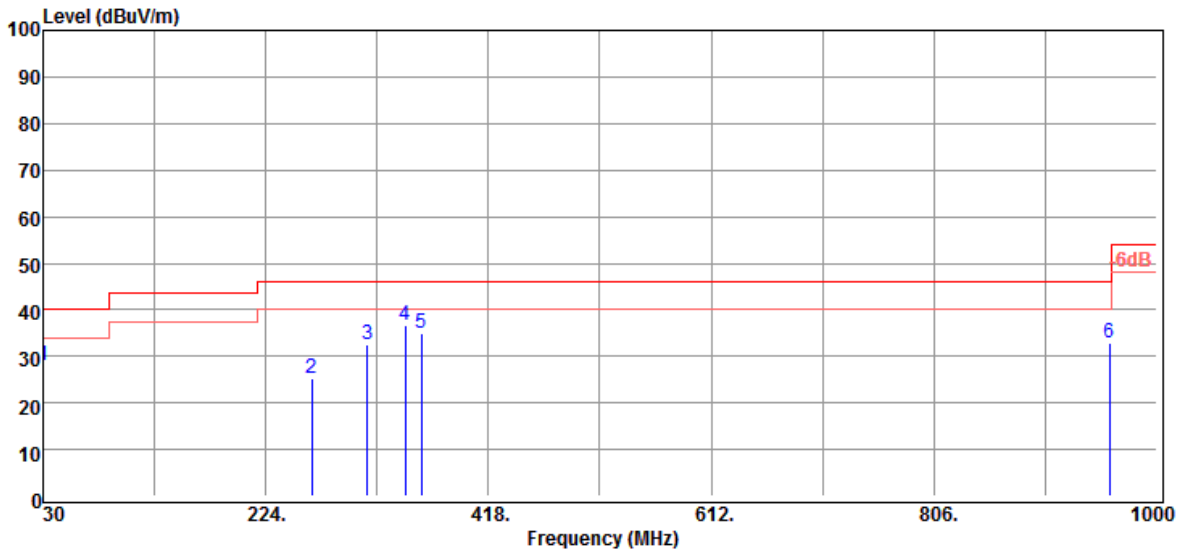
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
79.47	Peak	43.53	-14.63	28.90	40.00	-11.10
103.72	Peak	37.57	-11.06	26.51	43.50	-16.99
159.98	Peak	31.86	-9.45	22.41	43.50	-21.09
802.12	Peak	28.81	3.02	31.83	46.00	-14.17
882.63	Peak	28.55	4.29	32.84	46.00	-13.16
937.92	Peak	29.63	5.06	34.69	46.00	-11.31

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Operation Mode	:802.11a / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.00	Peak	29.40	-1.51	27.89	40.00	-12.11
263.77	Peak	33.73	-8.42	25.31	46.00	-20.69
312.27	Peak	39.48	-7.08	32.40	46.00	-13.60
345.25	Peak	42.88	-6.37	36.51	46.00	-9.49
359.80	Peak	40.67	-5.79	34.88	46.00	-11.12
959.26	Peak	27.19	5.85	33.04	46.00	-12.96

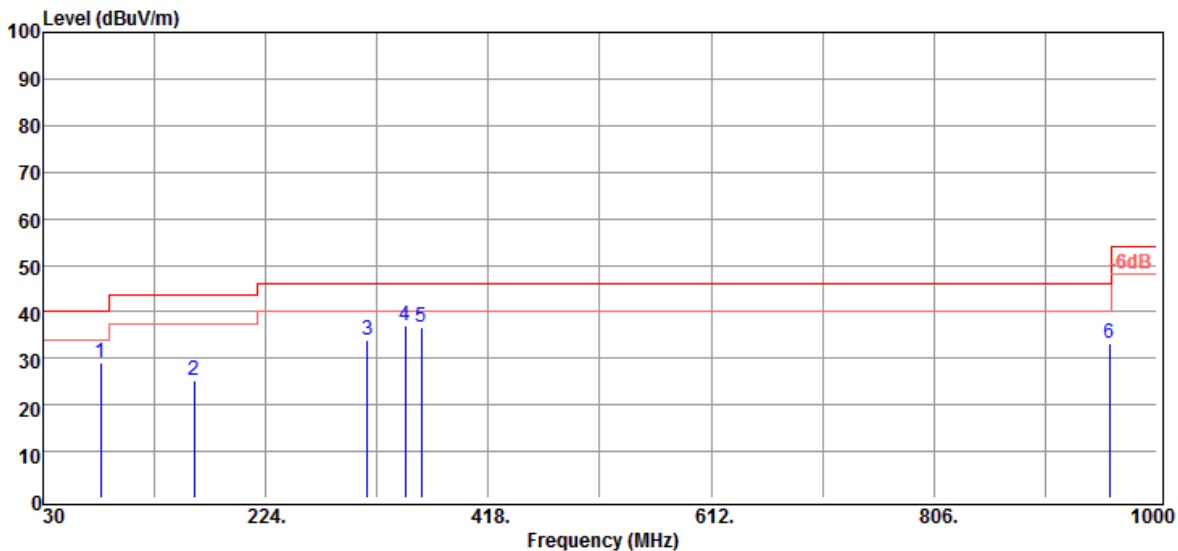
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802.11ac VHT160, 5150~5350 MHz

Operation Mode	:802.11ac160 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5250 MHz	Engineer	:Jerry



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	43.99	-14.76	29.23	40.00	-10.77
161.92	Peak	34.96	-9.57	25.39	43.50	-18.11
312.27	Peak	41.10	-7.08	34.02	46.00	-11.98
345.25	Peak	43.33	-6.37	36.96	46.00	-9.04
359.80	Peak	42.43	-5.79	36.64	46.00	-9.36
959.26	Peak	27.32	5.85	33.17	46.00	-12.83

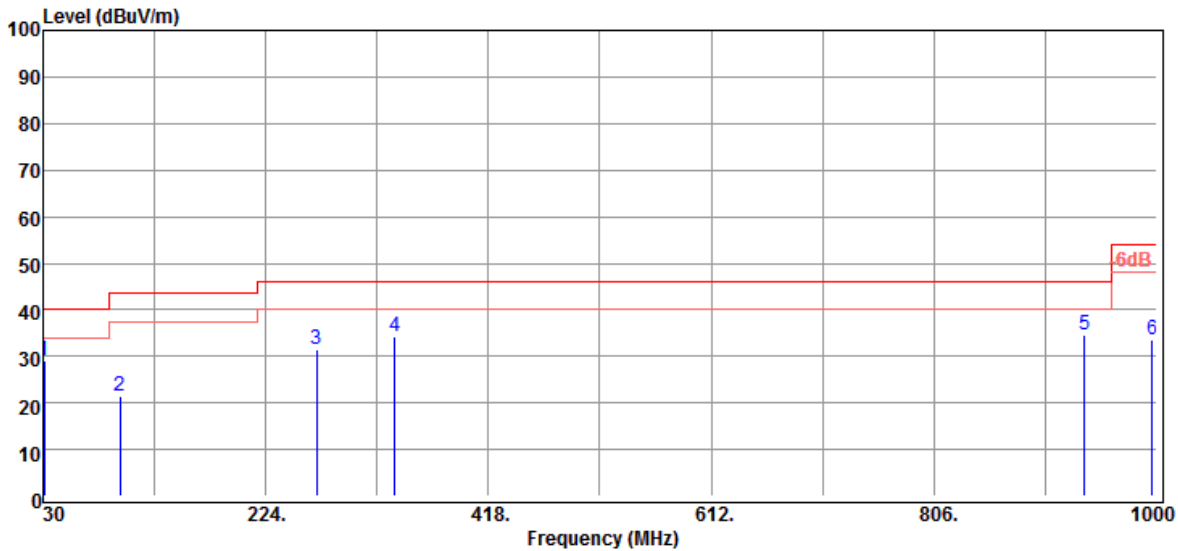
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Operation Mode :802.11ac160 / Band 1
 Test Mode :TX CH MID
 EUT Pol :H Plan
 Test Channel :5250 MHz

Test Date :2019-03-13
 Temp./Humi. :22/57
 Antenna Pol. :HORIZONTAL
 Engineer :Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	30.97	-2.00	28.97	40.00	-11.03
96.93	Peak	34.36	-12.90	21.46	43.50	-22.04
268.62	Peak	39.30	-7.95	31.35	46.00	-14.65
336.52	Peak	40.61	-6.48	34.13	46.00	-11.87
936.95	Peak	29.40	5.06	34.46	46.00	-11.54
996.12	Peak	27.17	6.31	33.48	54.00	-20.52

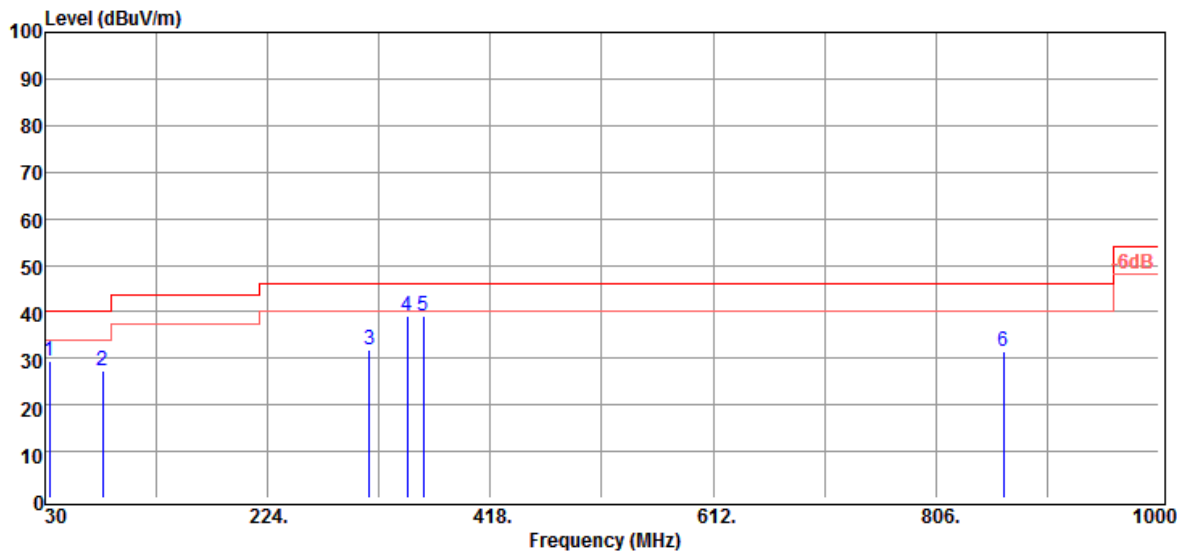
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802.11ac VHT160, 5470~5850 MHz

Operation Mode	:802.11ac160 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:24/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5570 MHz	Engineer	:Jerry



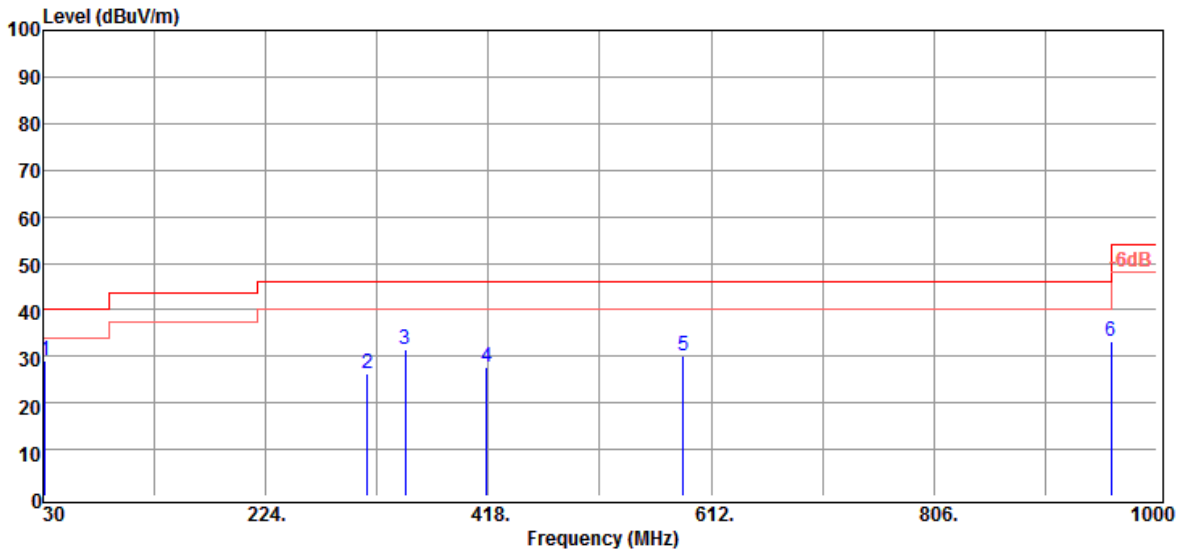
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.88	Peak	33.58	-4.13	29.45	40.00	-10.55
80.44	Peak	42.09	-14.76	27.33	40.00	-12.67
312.27	Peak	38.90	-7.08	31.82	46.00	-14.18
345.25	Peak	45.31	-6.37	38.94	46.00	-7.06
359.80	Peak	44.98	-5.79	39.19	46.00	-6.81
865.17	Peak	27.58	4.00	31.58	46.00	-14.42

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Operation Mode	:802.11ac160 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5570 MHz	Engineer	:Jerry



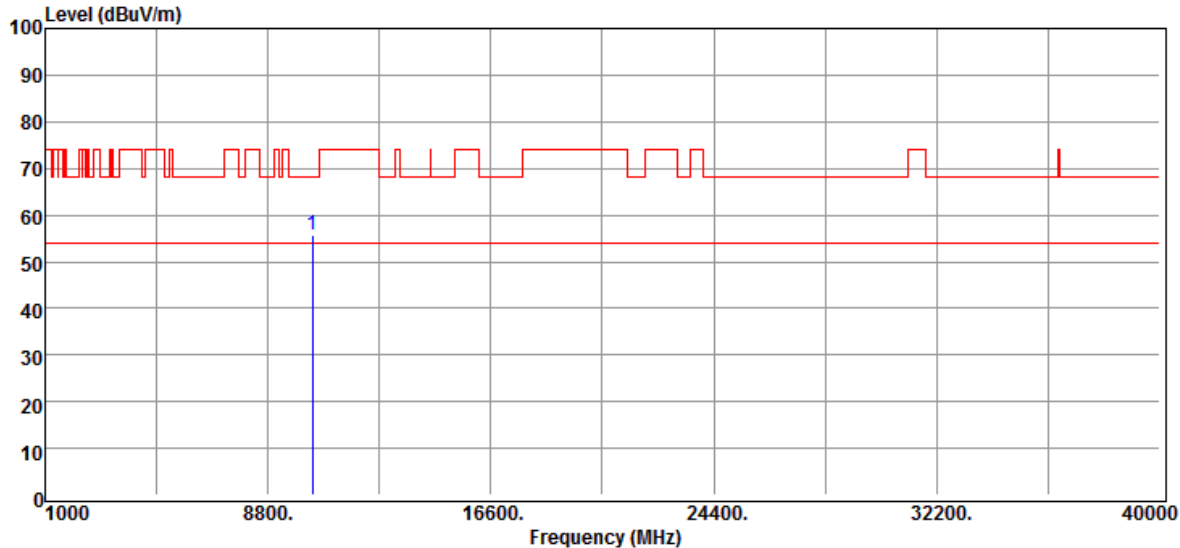
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	Peak	31.71	-2.75	28.96	40.00	-11.04
312.27	Peak	33.41	-7.08	26.33	46.00	-19.67
345.25	Peak	37.99	-6.37	31.62	46.00	-14.38
416.06	Peak	31.96	-4.29	27.67	46.00	-18.33
587.75	Peak	31.58	-1.36	30.22	46.00	-15.78
960.23	Peak	27.21	5.87	33.08	54.00	-20.92

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Above 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

Operation Mode	:802.11a / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Jerry



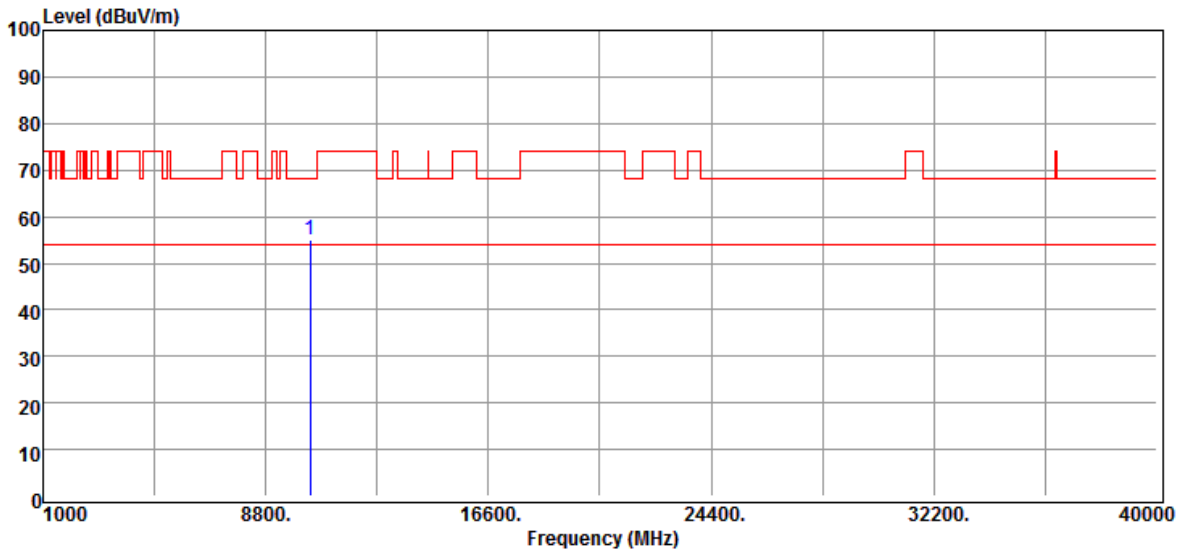
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	41.15	14.41	55.56	68.20	-12.64

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Operation Mode	:802.11a / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Jerry

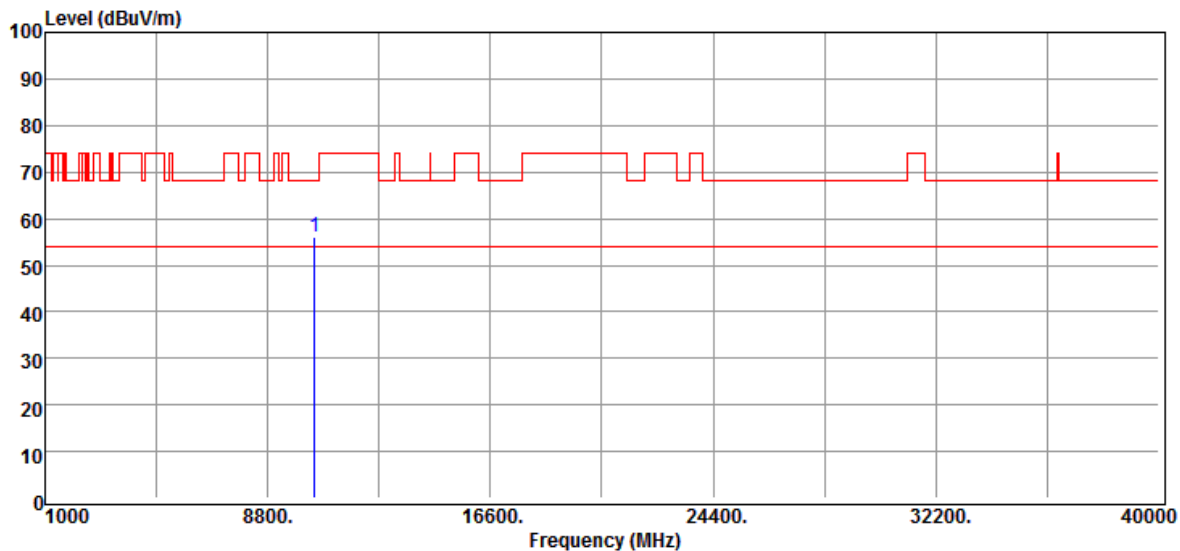


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	40.77	14.41	55.18	68.20	-13.02

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Operation Mode	:802.11a / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Jerry



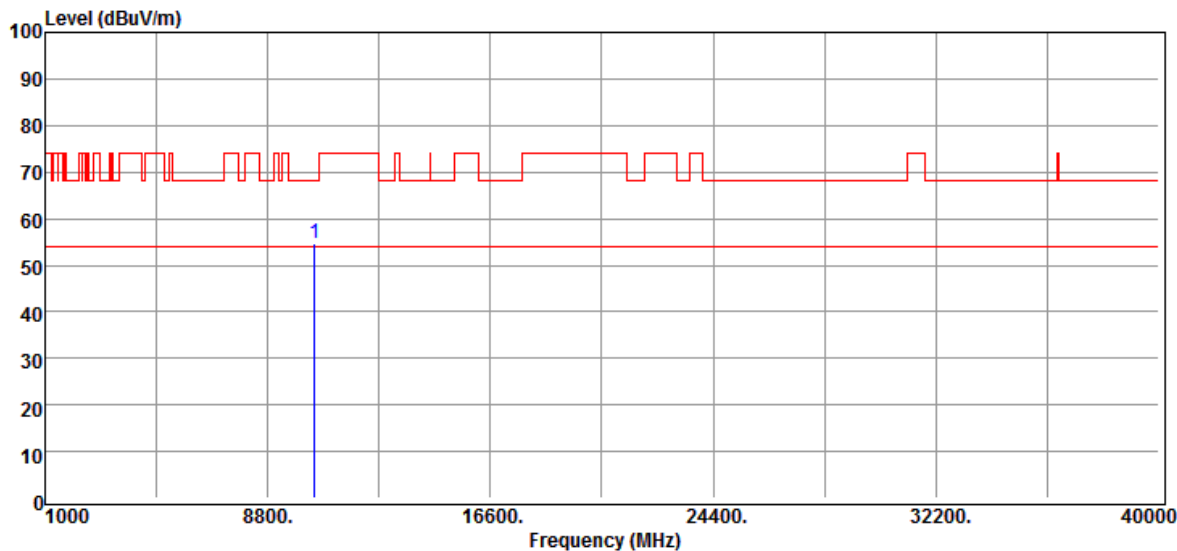
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	40.42	15.58	56.00	68.20	-12.20

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Operation Mode	:802.11a / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Jerry

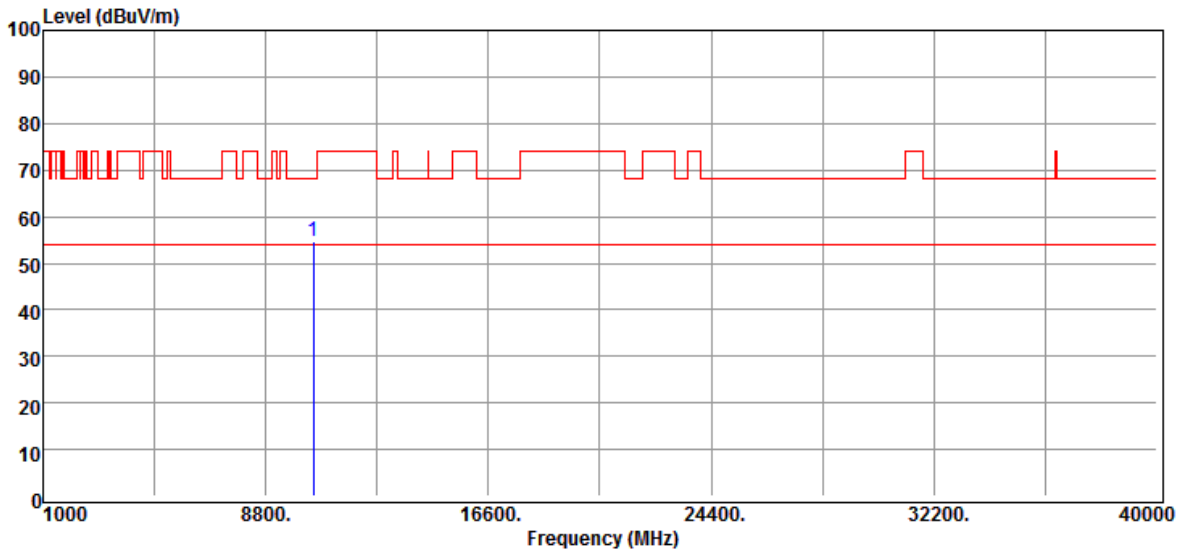


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	39.06	15.58	54.64	68.20	-13.56

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Operation Mode	:802.11a / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5240 MHz	Engineer	:Jerry

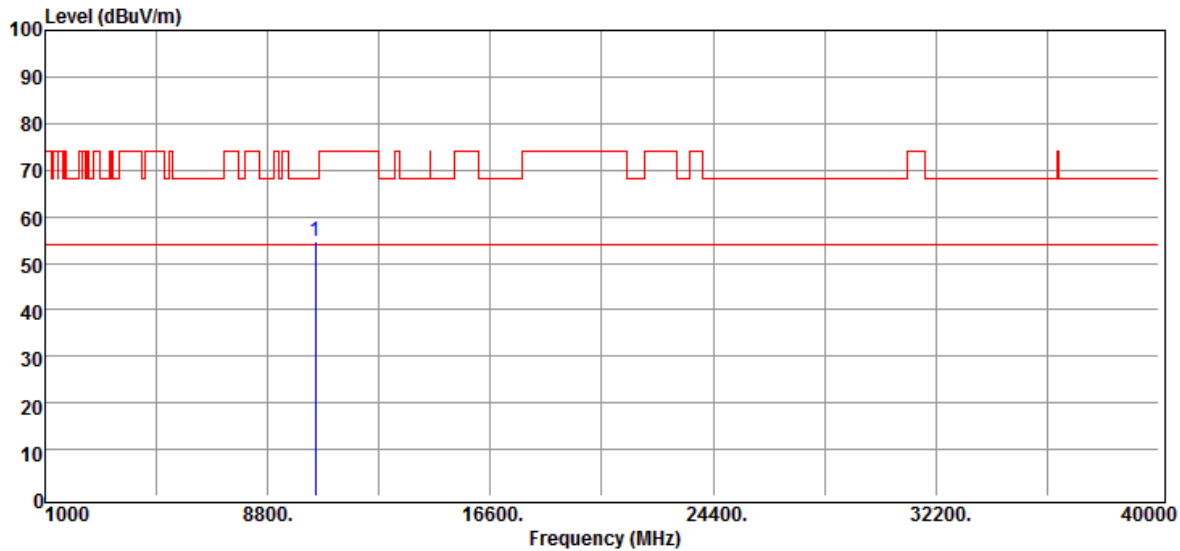


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	38.19	16.48	54.67	68.20	-13.53

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Operation Mode	:802.11a / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5240 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	38.14	16.48	54.62	68.20	-13.58

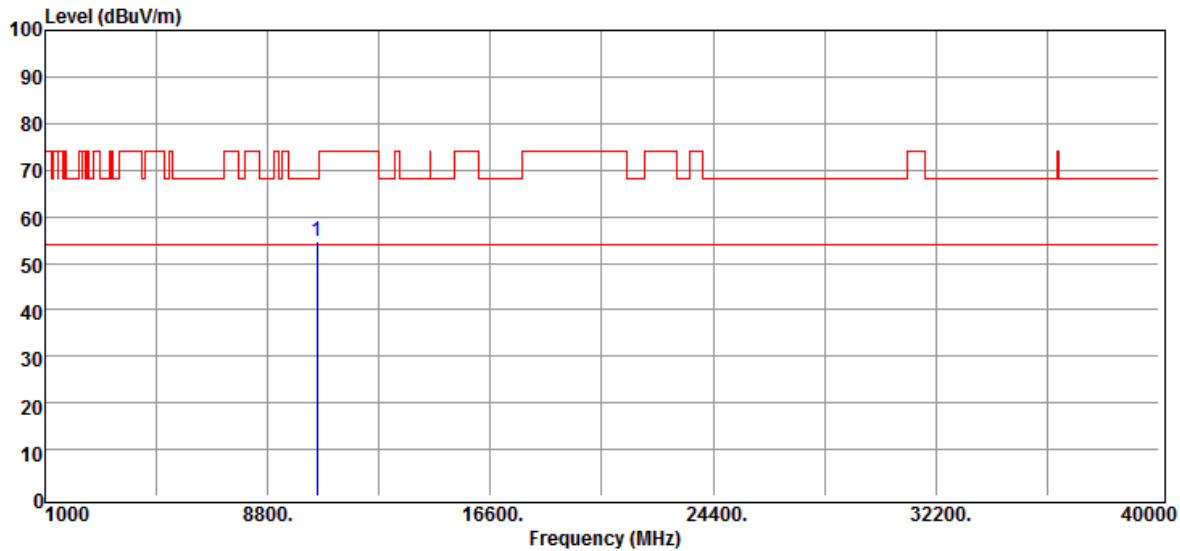
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode	:802.11a / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5260 MHz	Engineer	:Jerry



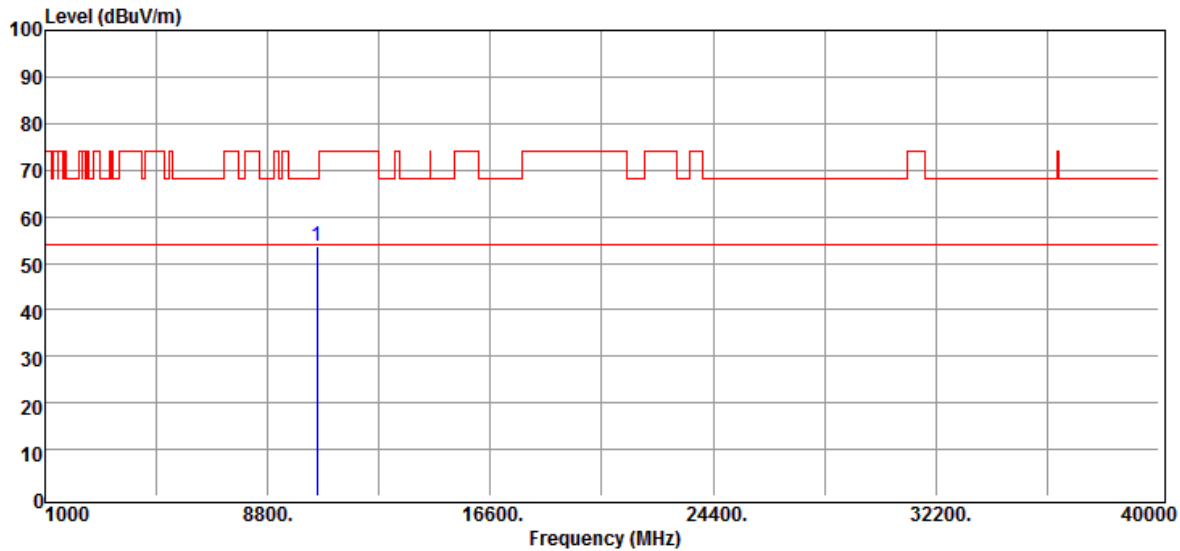
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	39.12	15.57	54.69	68.20	-13.51

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Operation Mode	:802.11a / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5260 MHz	Engineer	:Jerry



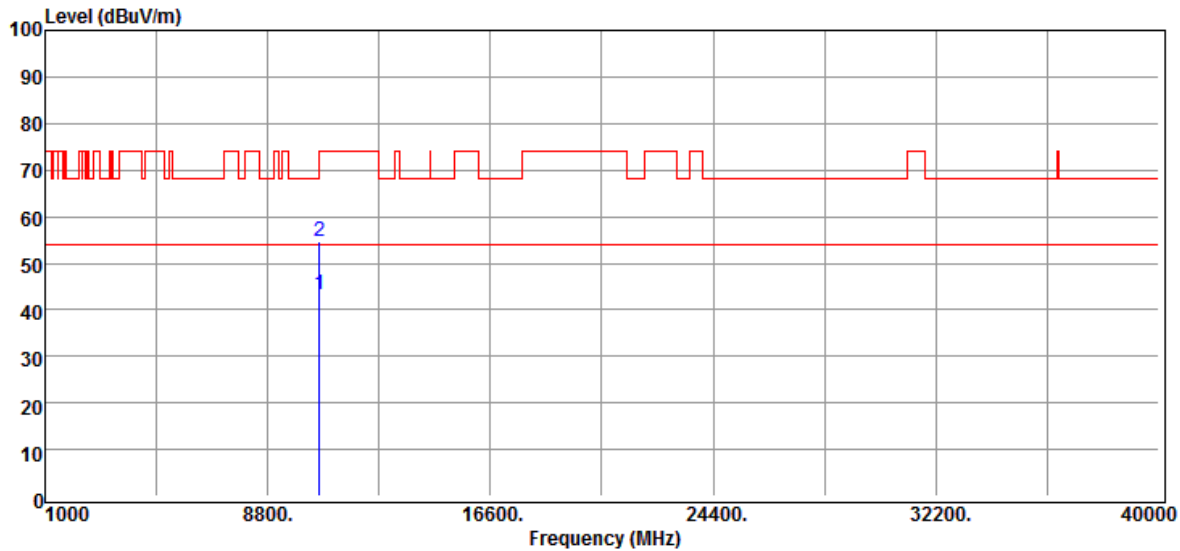
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	38.08	15.57	53.65	68.20	-14.55

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Operation Mode	:802.11a / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5300 MHz	Engineer	:Jerry



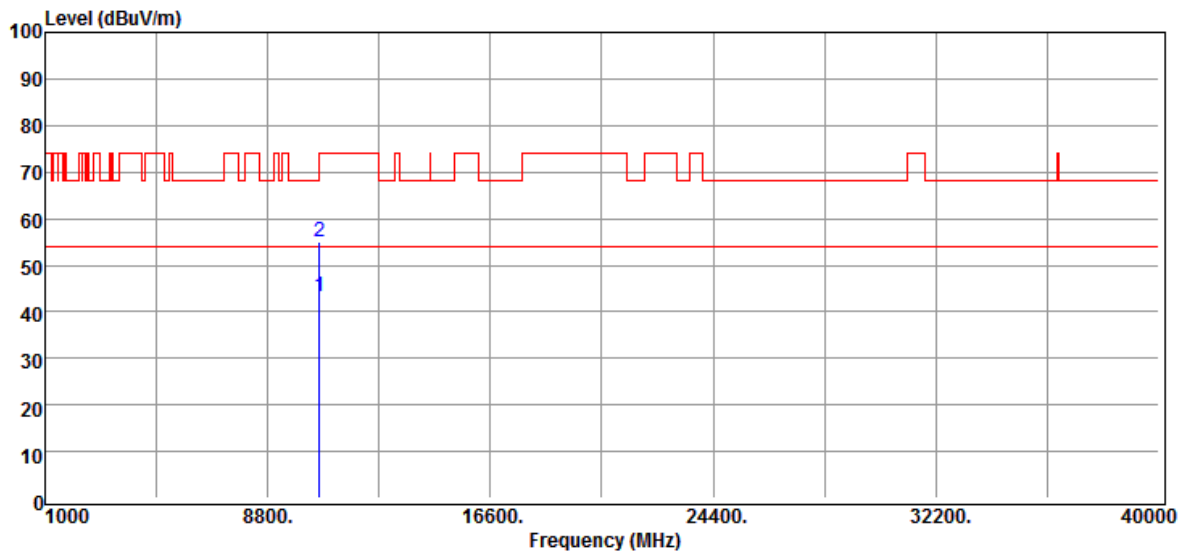
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	27.84	15.47	43.31	54.00	-10.69
10600.00	Peak	39.31	15.47	54.78	68.20	-13.42

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Operation Mode	:802.11a / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5300 MHz	Engineer	:Jerry



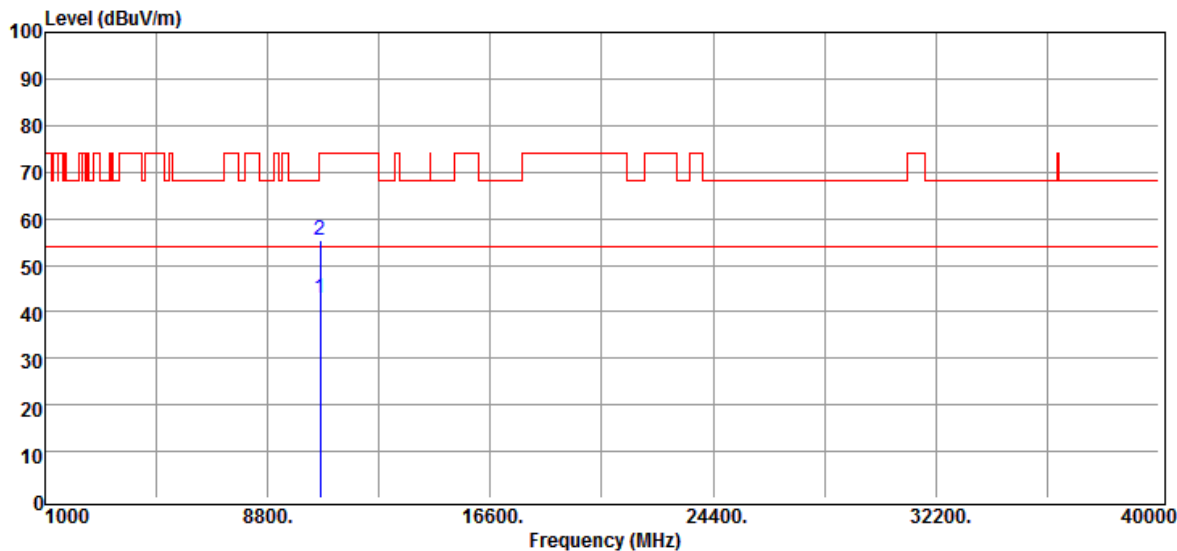
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	27.70	15.47	43.17	54.00	-10.83
10600.00	Peak	39.52	15.47	54.99	68.20	-13.21

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Operation Mode	:802.11a / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Jerry



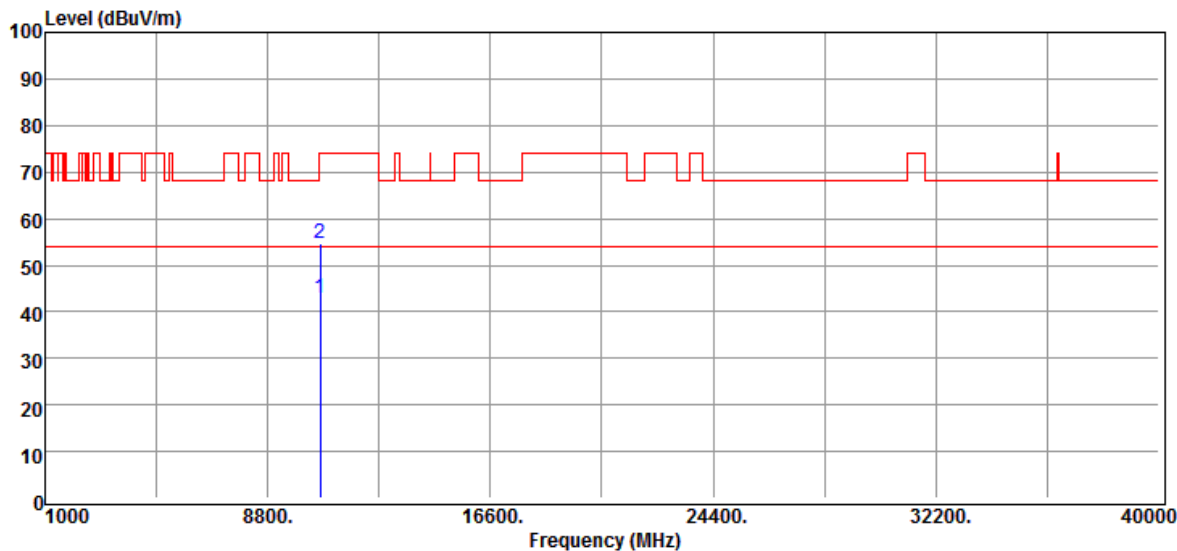
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	26.71	16.12	42.83	54.00	-11.17
10640.00	Peak	39.41	16.12	55.53	74.00	-18.47

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Operation Mode	:802.11a / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	26.86	16.12	42.98	54.00	-11.02
10640.00	Peak	38.46	16.12	54.58	74.00	-19.42

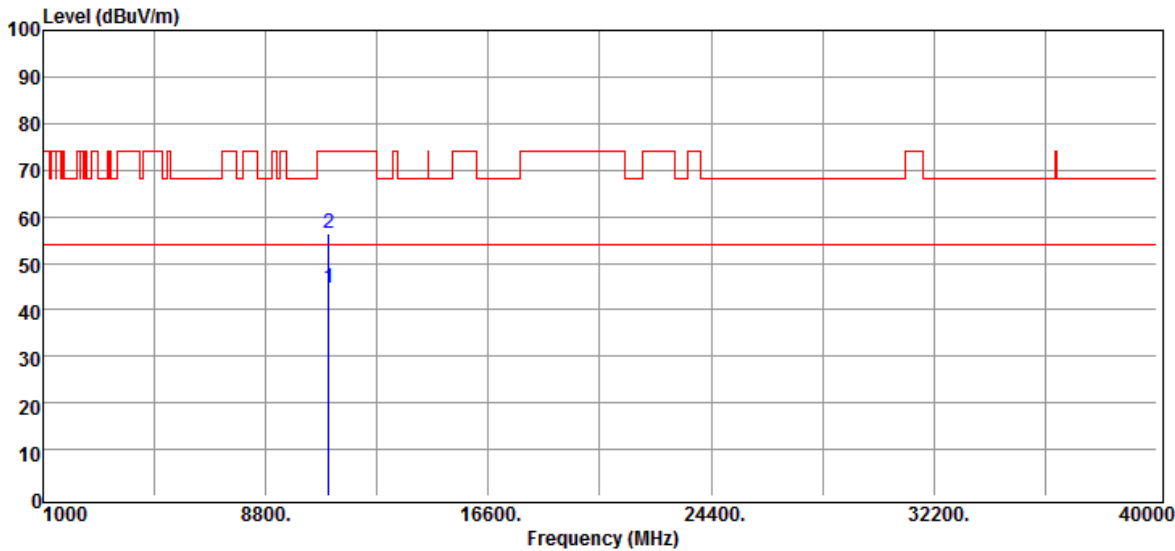
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode	:802.11a / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Jerry



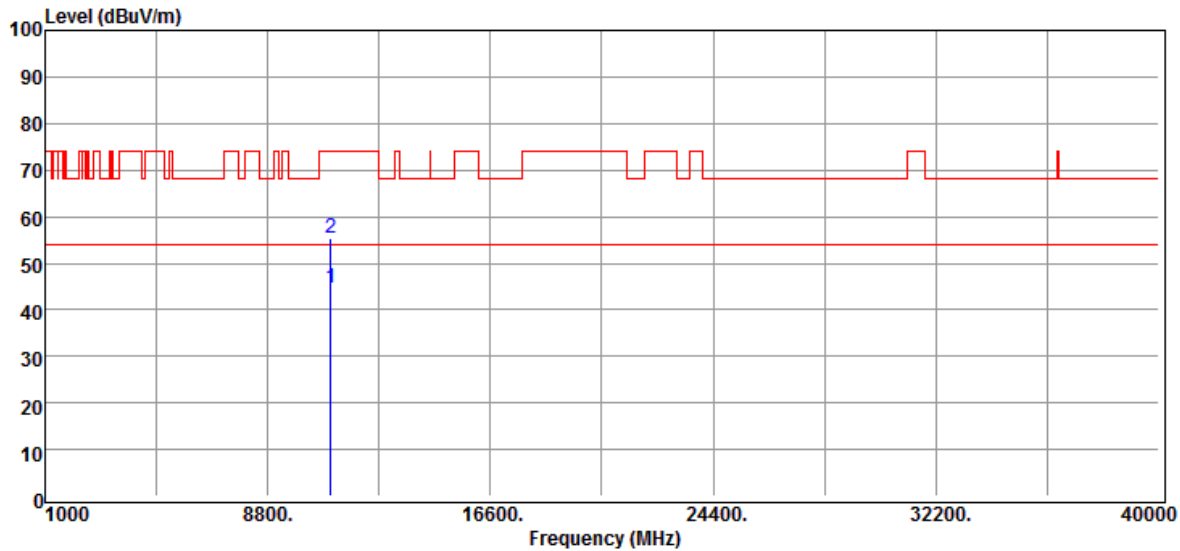
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	26.94	17.75	44.69	54.00	-9.31
11000.00	Peak	38.79	17.75	56.54	74.00	-17.46

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Operation Mode	:802.11a / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Jerry



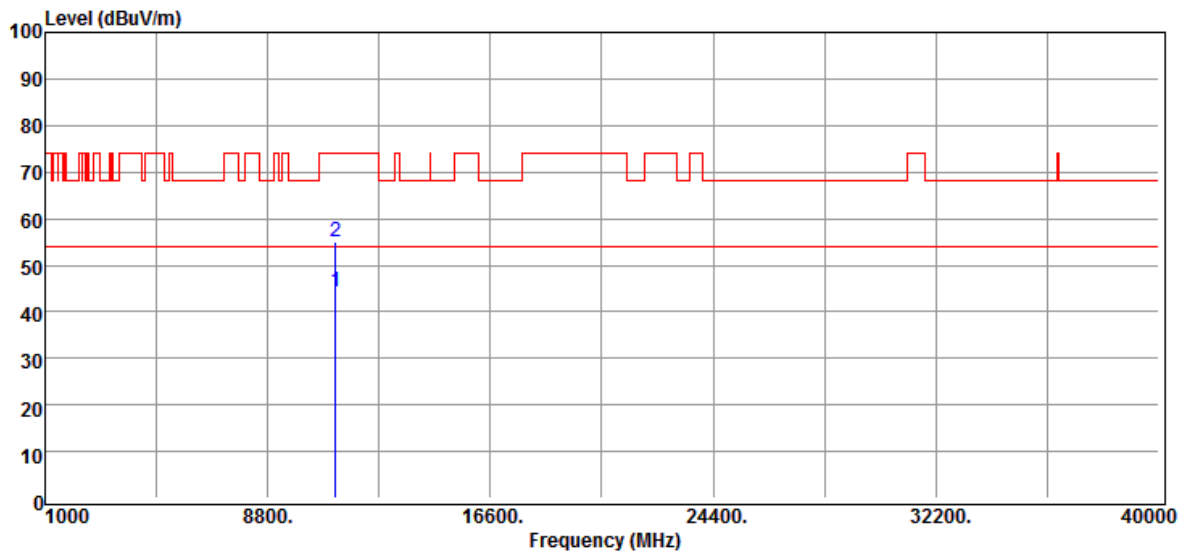
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	26.93	17.75	44.68	54.00	-9.32
11000.00	Peak	37.53	17.75	55.28	74.00	-18.72

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Operation Mode	:802.11a / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Jerry



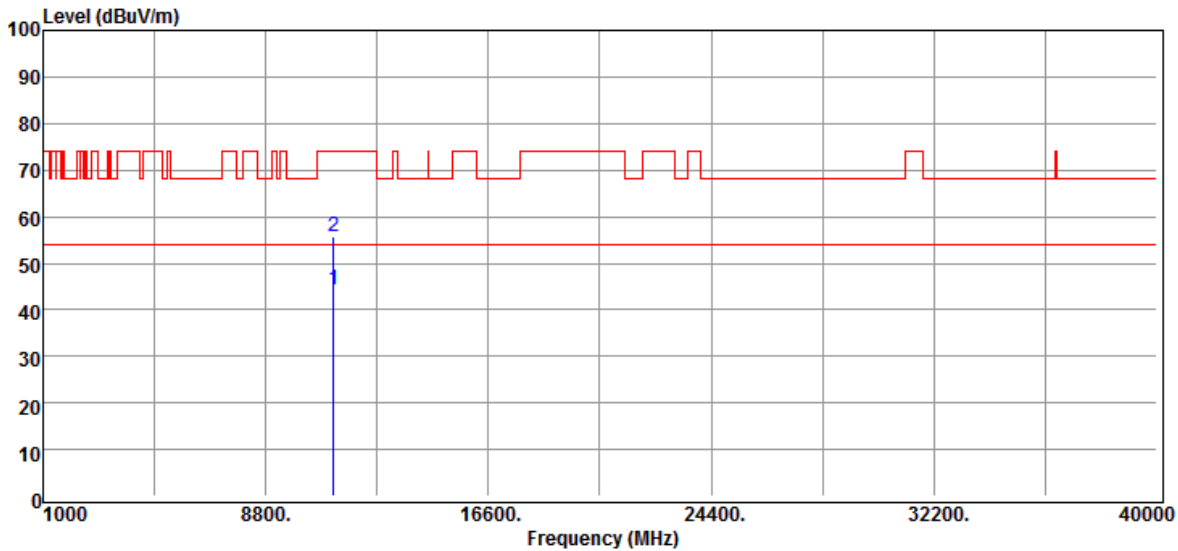
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	27.68	16.53	44.21	54.00	-9.79
11160.00	Peak	38.59	16.53	55.12	74.00	-18.88

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Operation Mode	:802.11a / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5580 MHz	Engineer	:Jerry



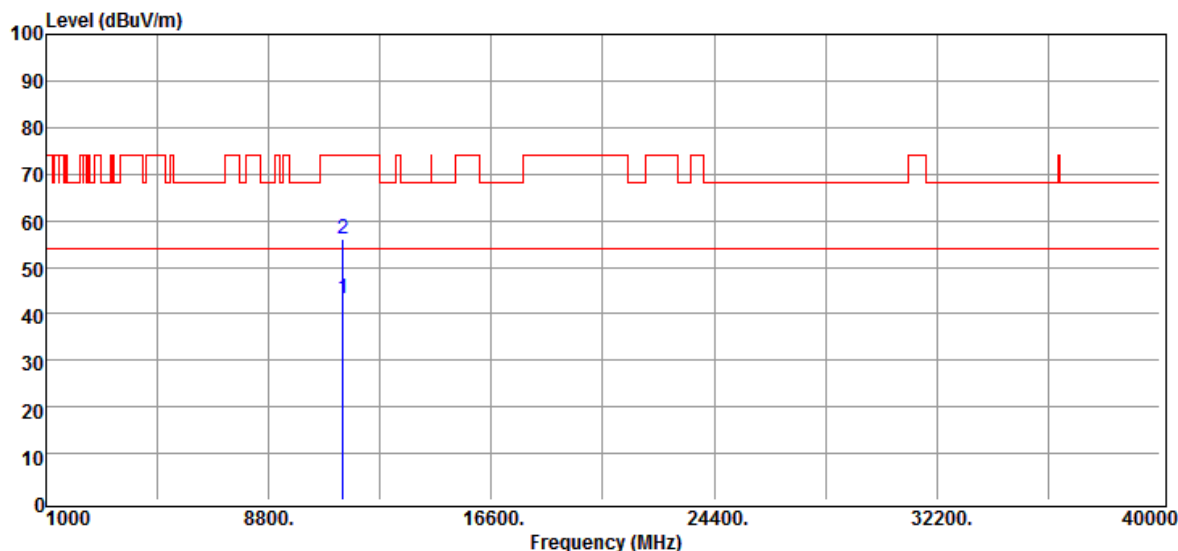
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	27.67	16.53	44.20	54.00	-9.80
11160.00	Peak	39.20	16.53	55.73	74.00	-18.27

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Operation Mode	:802.11a / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Jerry



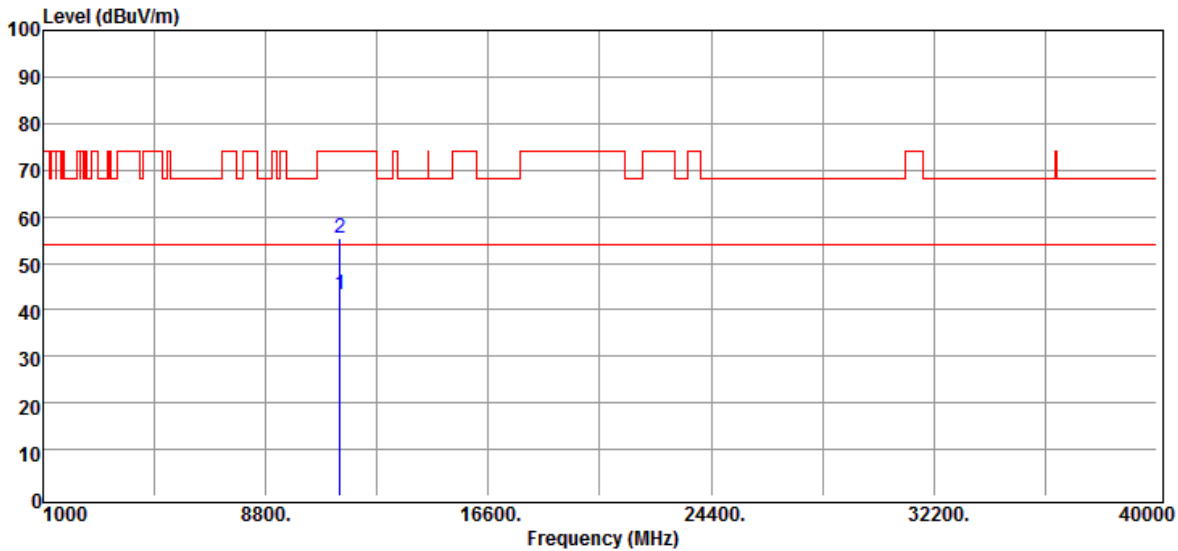
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	26.71	16.48	43.19	54.00	-10.81
11400.00	Peak	39.71	16.48	56.19	74.00	-17.81

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Operation Mode	:802.11a / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	26.78	16.48	43.26	54.00	-10.74
11400.00	Peak	39.04	16.48	55.52	74.00	-18.48

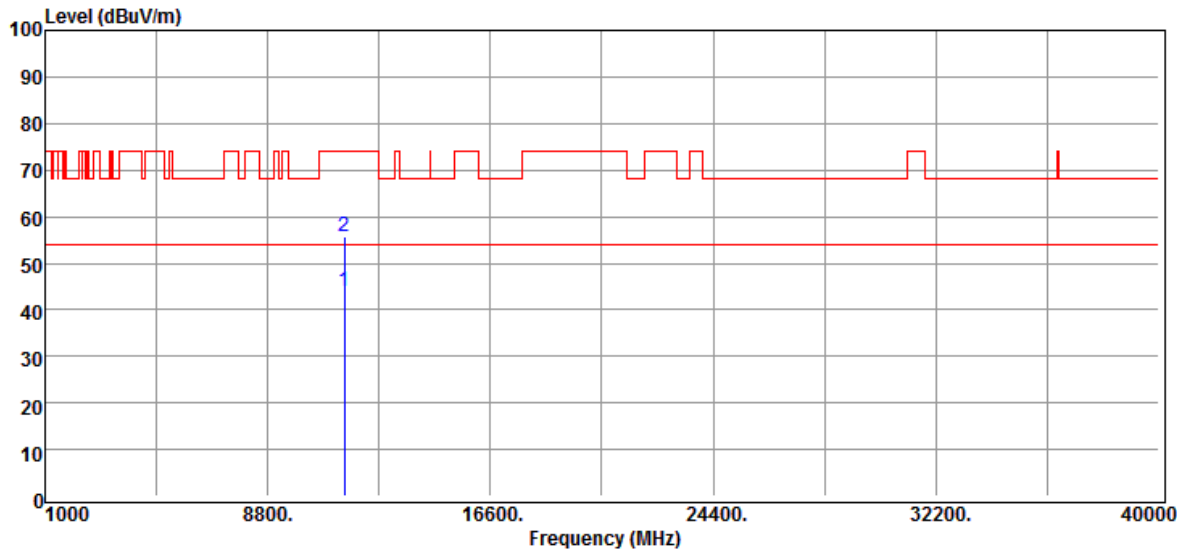
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode	:802.11a / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Jerry



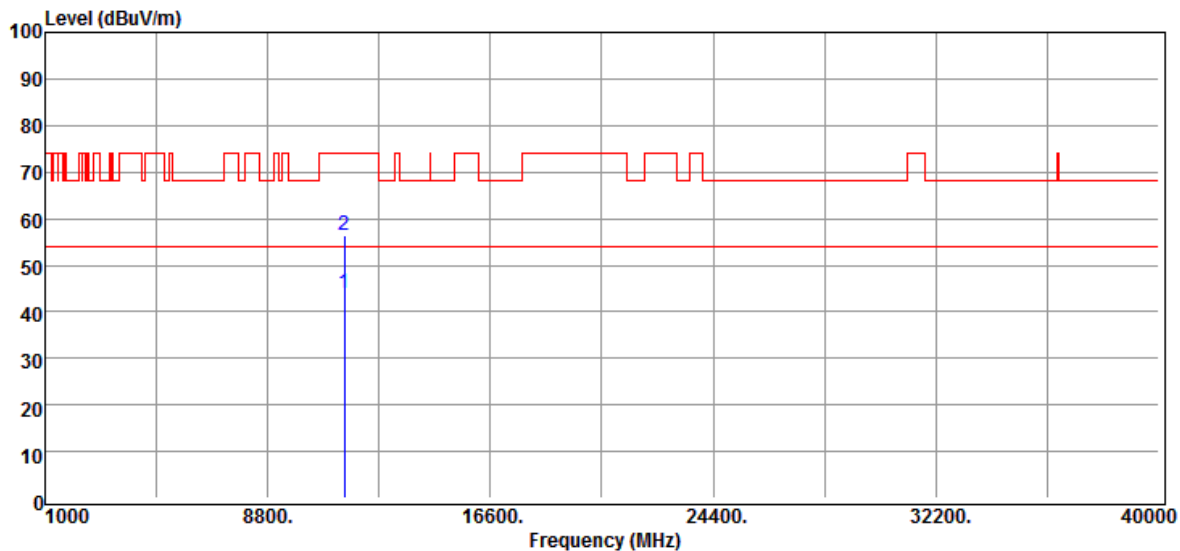
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	27.97	15.85	43.82	54.00	-10.18
11490.00	Peak	39.87	15.85	55.72	74.00	-18.28

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Operation Mode	:802.11a / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Jerry



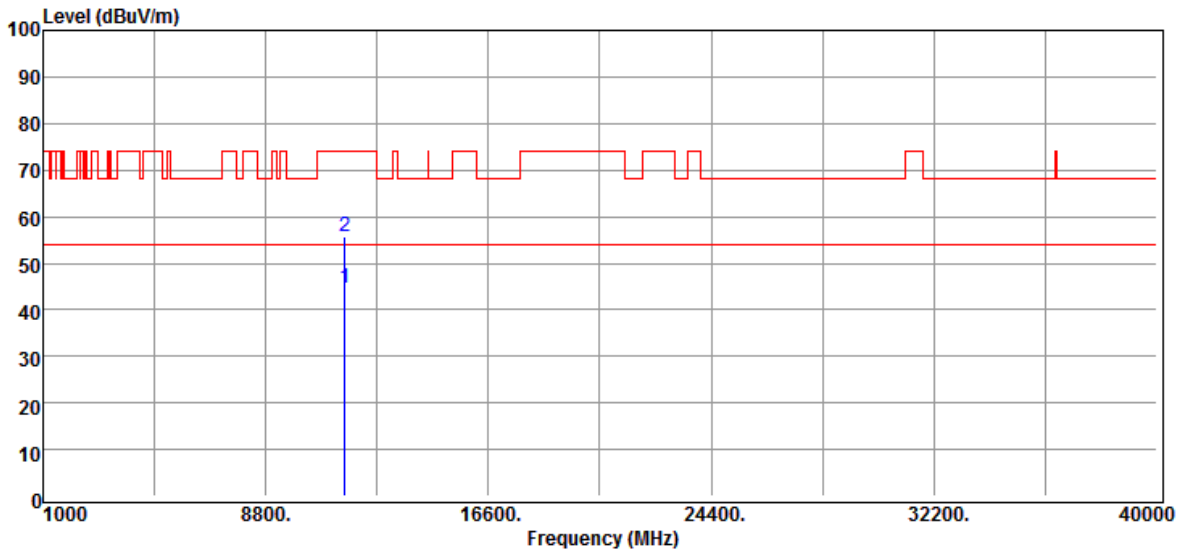
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	28.15	15.85	44.00	54.00	-10.00
11490.00	Peak	40.43	15.85	56.28	74.00	-17.72

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Operation Mode	:802.11a / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Jerry



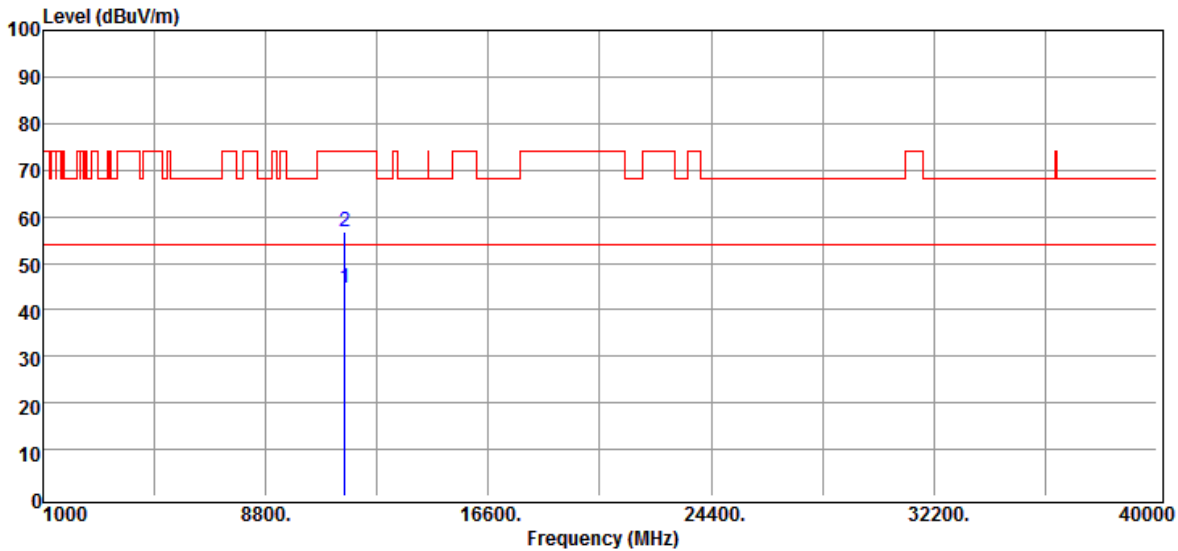
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.51	16.29	44.80	54.00	-9.20
11570.00	Peak	39.41	16.29	55.70	74.00	-18.30

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Operation Mode	:802.11a / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Jerry



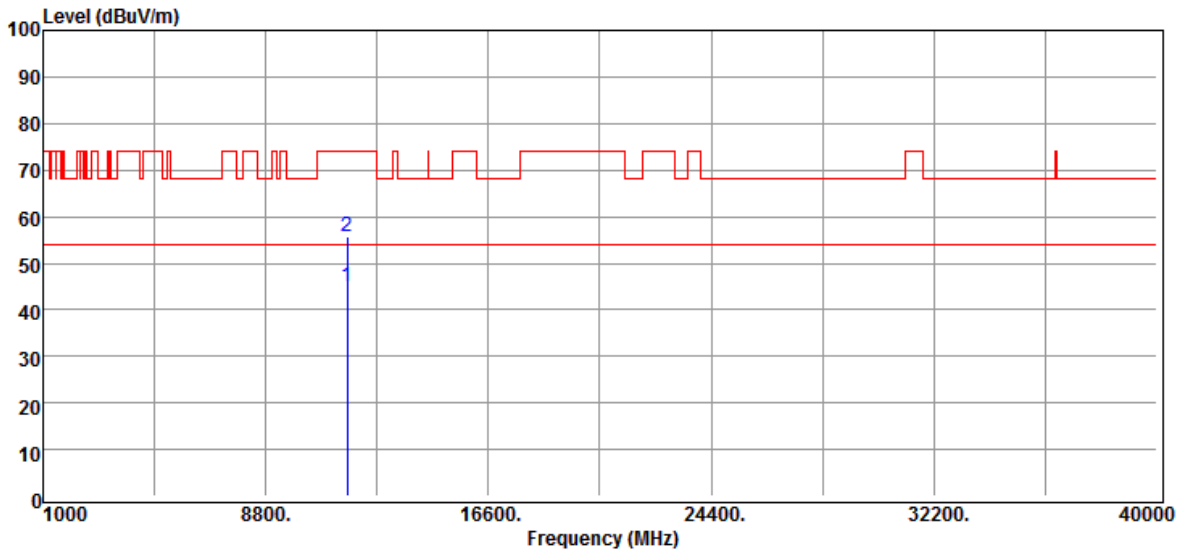
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.28	16.29	44.57	54.00	-9.43
11570.00	Peak	40.46	16.29	56.75	74.00	-17.25

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Operation Mode	:802.11a / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Jerry



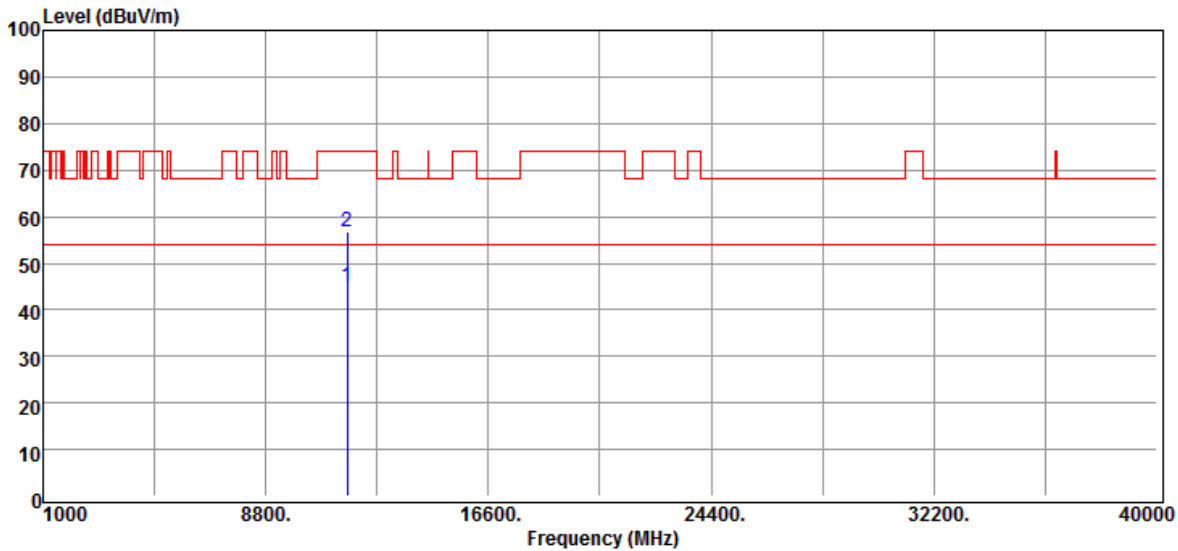
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	28.32	16.61	44.93	54.00	-9.07
11650.00	Peak	39.20	16.61	55.81	74.00	-18.19

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Operation Mode	:802.11a / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:21/62
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	28.31	16.61	44.92	54.00	-9.08
11650.00	Peak	40.10	16.61	56.71	74.00	-17.29

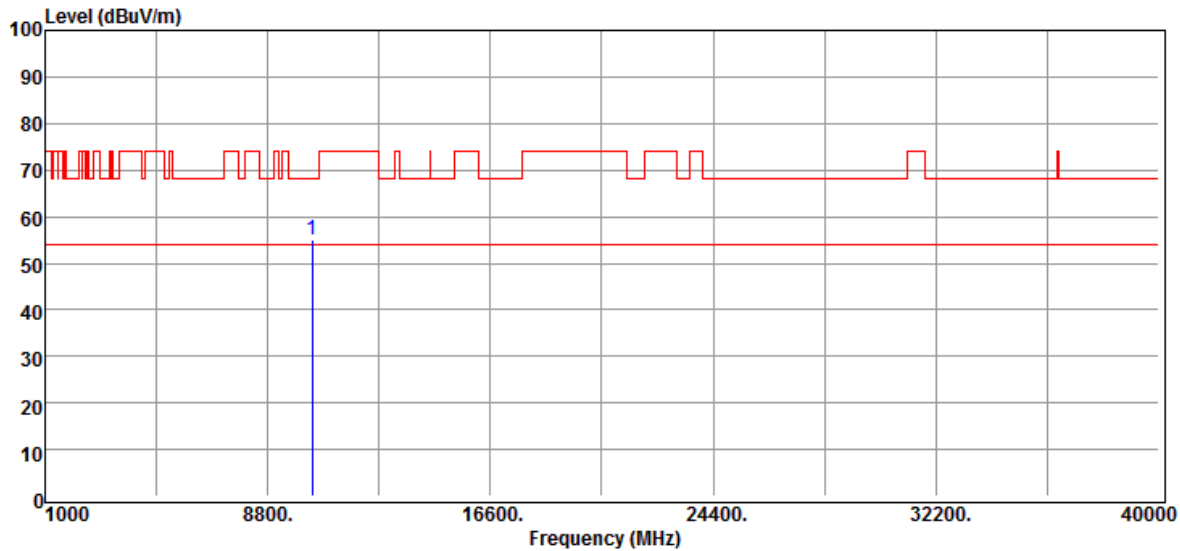
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode	:802.11n20 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/55
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Jerry



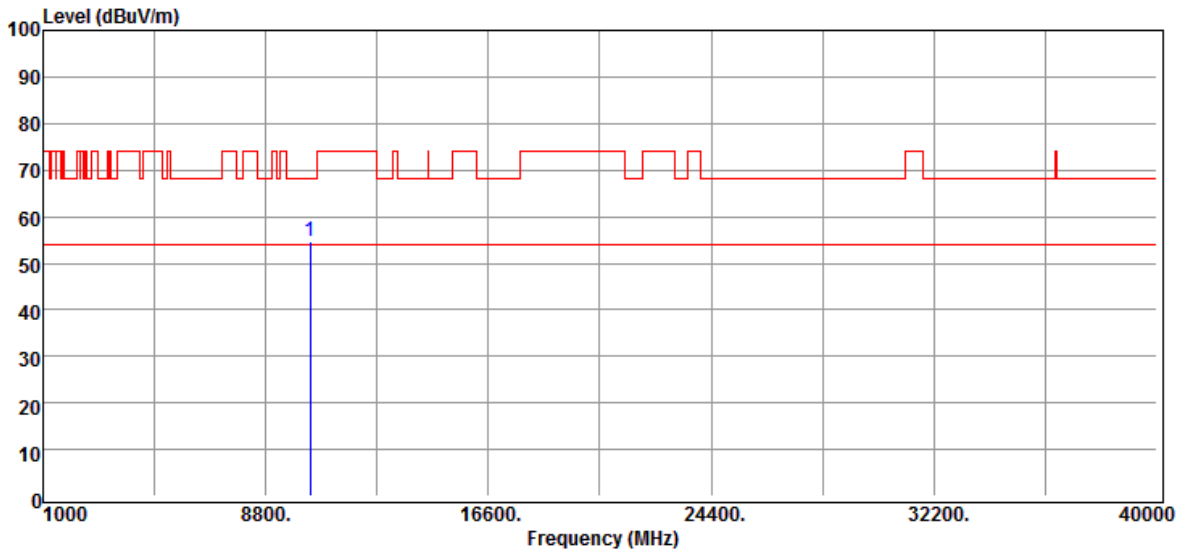
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	40.77	14.41	55.18	68.20	-13.02

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Operation Mode	:802.11n20 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/55
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Jerry

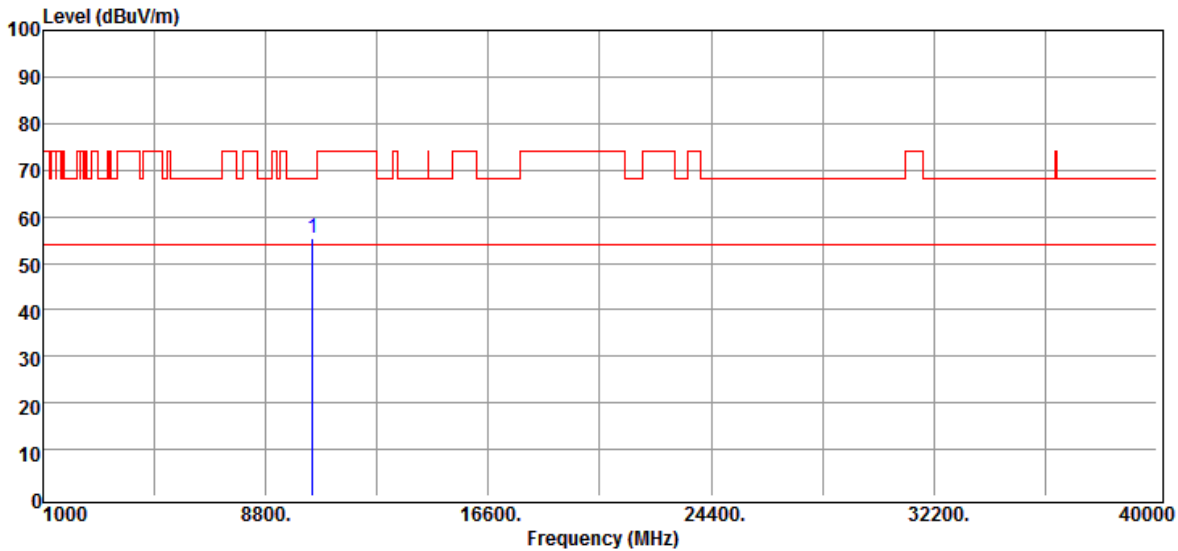


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	40.37	14.41	54.78	68.20	-13.42

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Operation Mode	:802.11n20 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/55
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Jerry

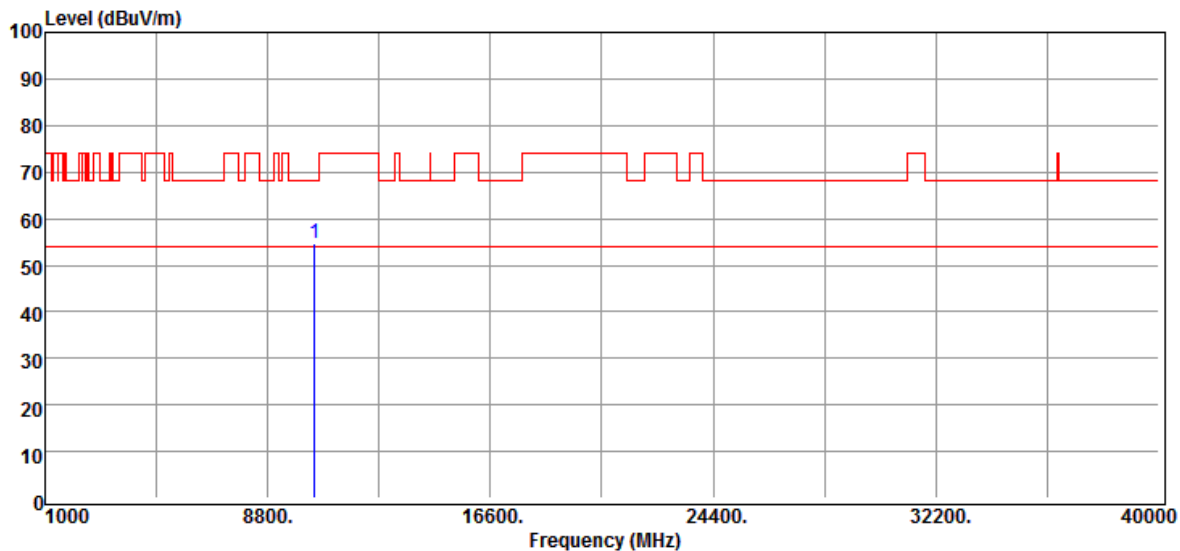


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	39.63	15.58	55.21	68.20	-12.99

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Operation Mode	:802.11n20 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/55
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Jerry

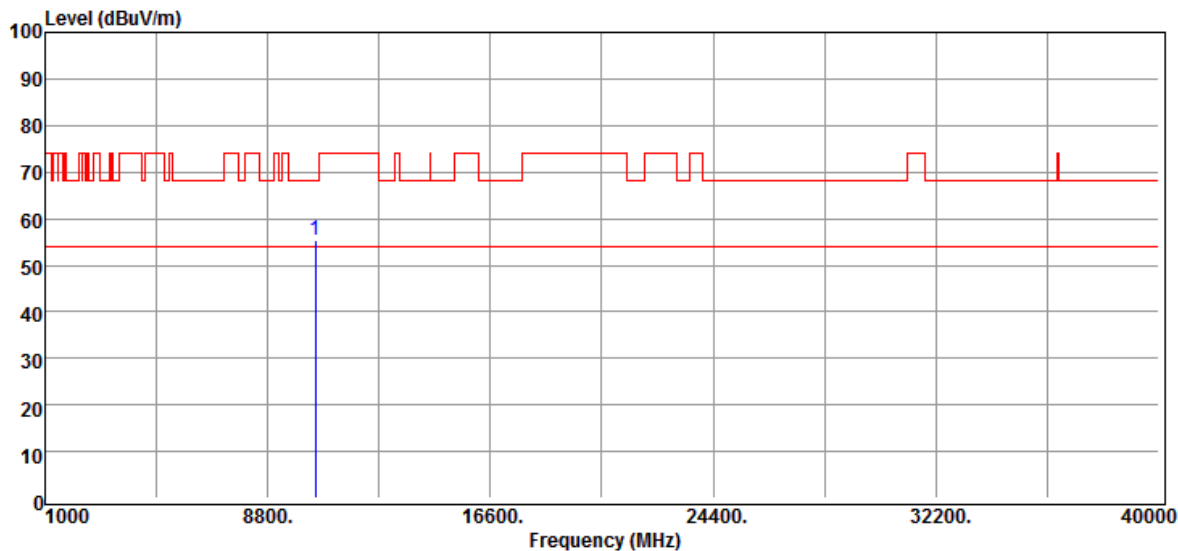


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	38.98	15.58	54.56	68.20	-13.64

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Operation Mode	:802.11n20 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/55
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5240 MHz	Engineer	:Jerry



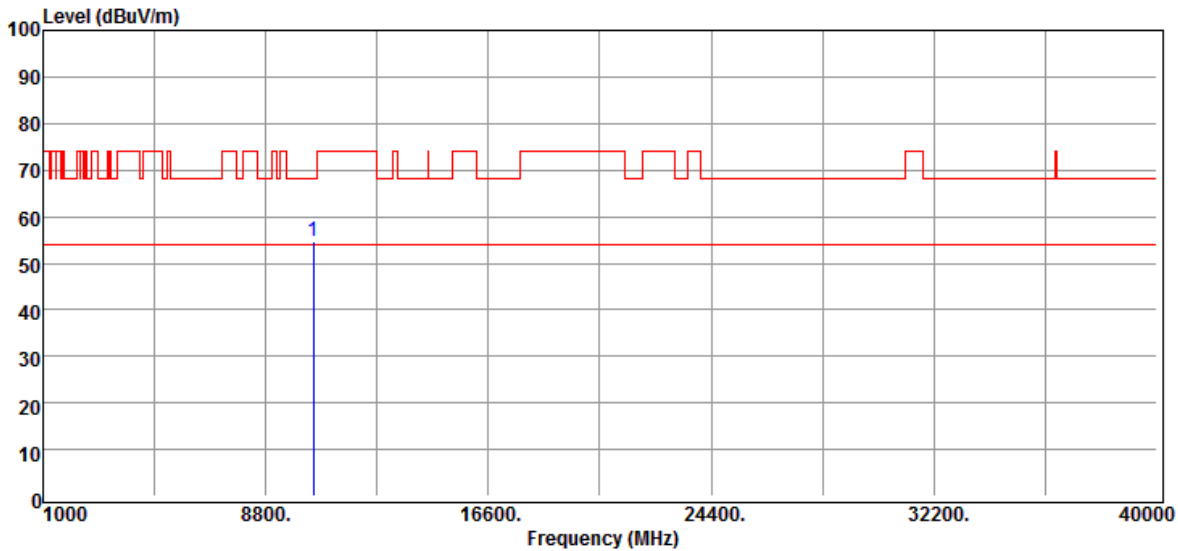
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	38.99	16.48	55.47	68.20	-12.73

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Operation Mode	:802.11n20 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/55
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5240 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	38.19	16.48	54.67	68.20	-13.53

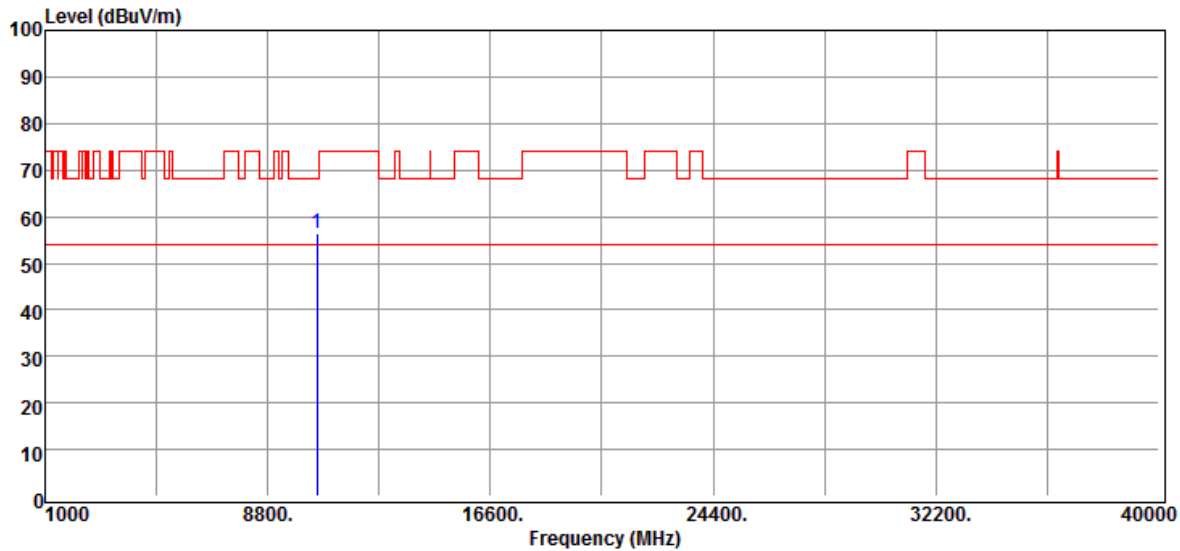
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode	:802.11n20 / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/55
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5260 MHz	Engineer	:Jerry



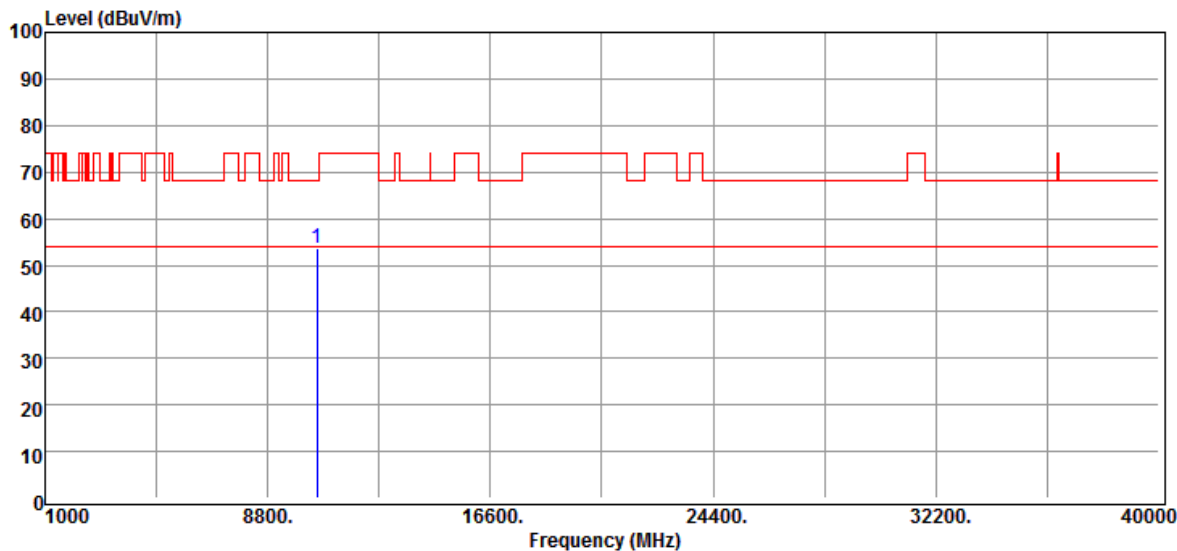
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	40.67	15.57	56.24	68.20	-11.96

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Operation Mode	:802.11n20 / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/55
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5260 MHz	Engineer	:Jerry



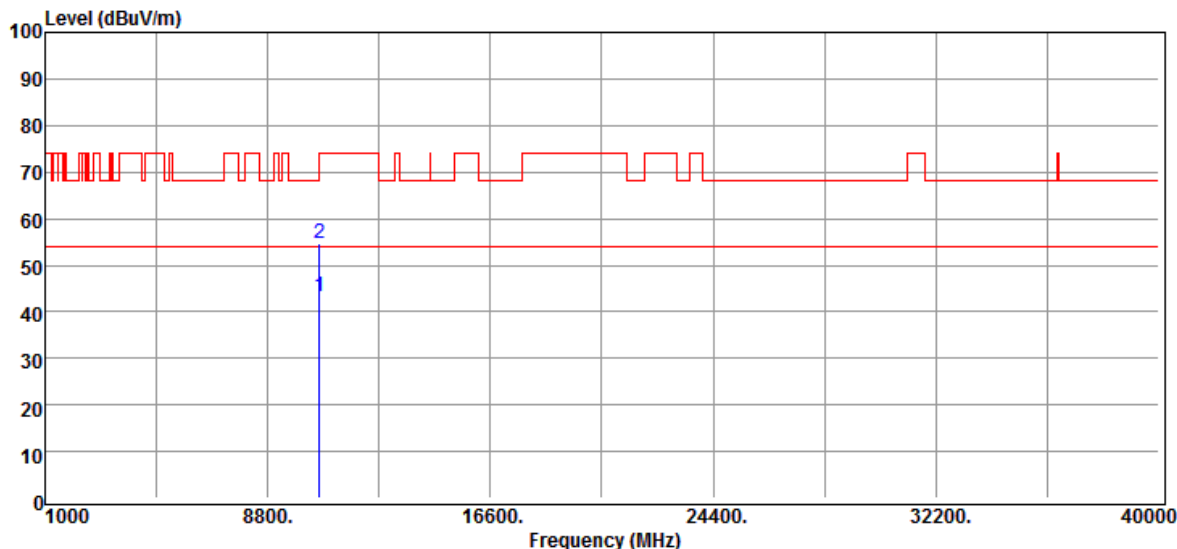
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	38.22	15.57	53.79	68.20	-14.41

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Operation Mode	:802.11n20 / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5300 MHz	Engineer	:Jerry



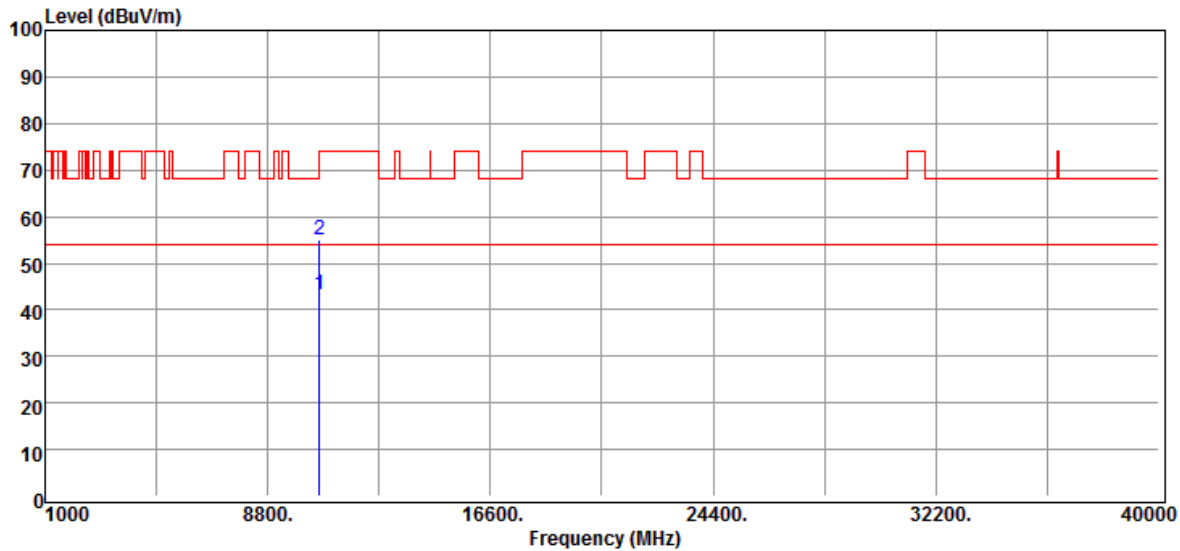
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	27.82	15.47	43.29	54.00	-10.71
10600.00	Peak	39.22	15.47	54.69	68.20	-13.51

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Operation Mode	:802.11n20 / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5300 MHz	Engineer	:Jerry

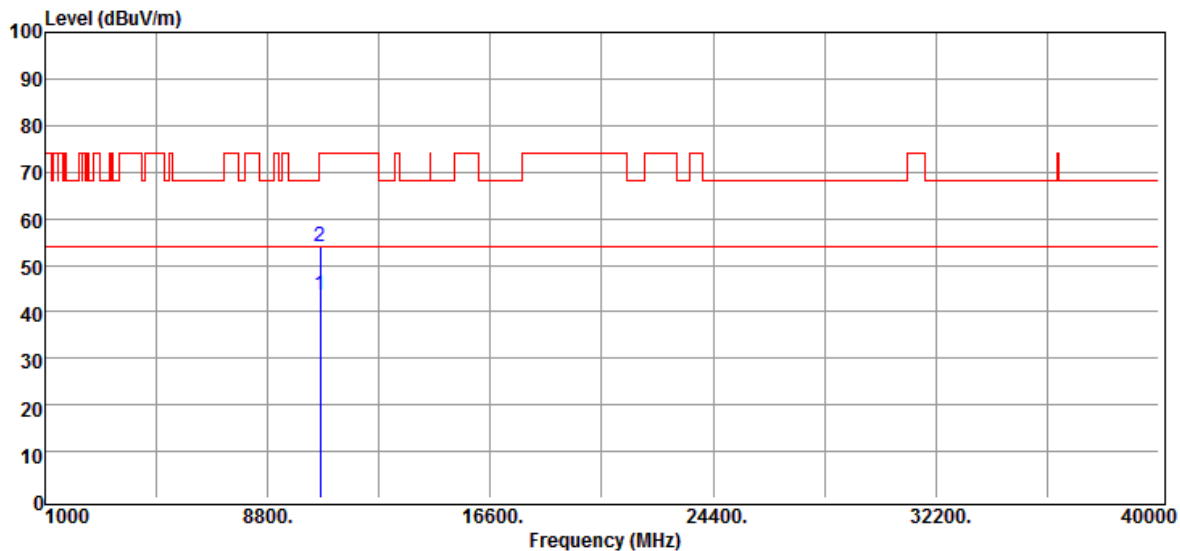


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	27.83	15.47	43.30	54.00	-10.70
10600.00	Peak	39.47	15.47	54.94	68.20	-13.26

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Operation Mode	:802.11n20 / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Jerry



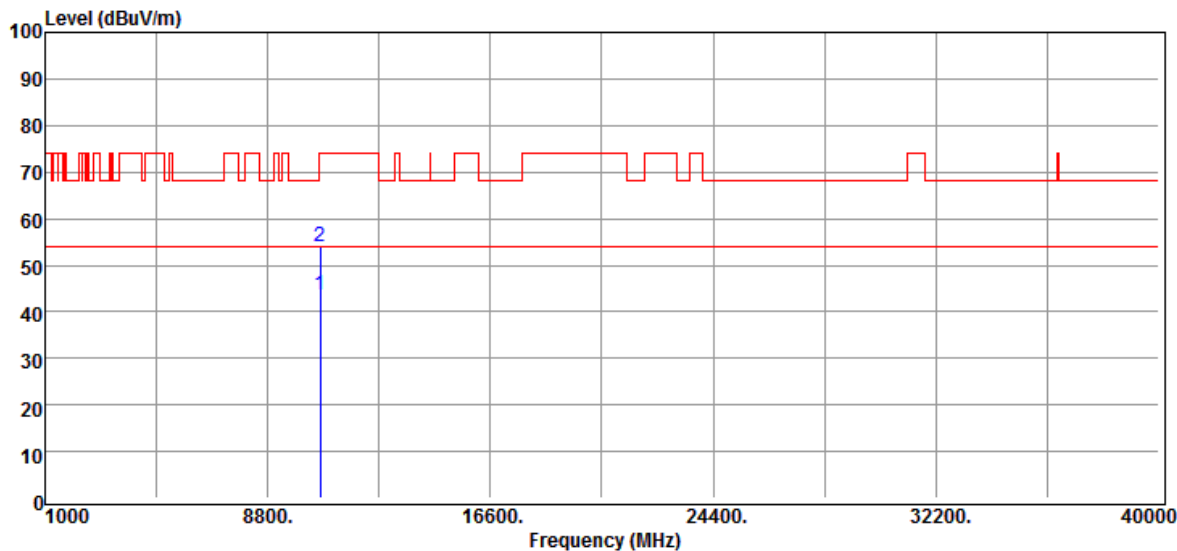
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	27.51	16.12	43.63	54.00	-10.37
10640.00	Peak	37.77	16.12	53.89	74.00	-20.11

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Operation Mode	:802.11n20 / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	27.34	16.12	43.46	54.00	-10.54
10640.00	Peak	38.00	16.12	54.12	74.00	-19.88

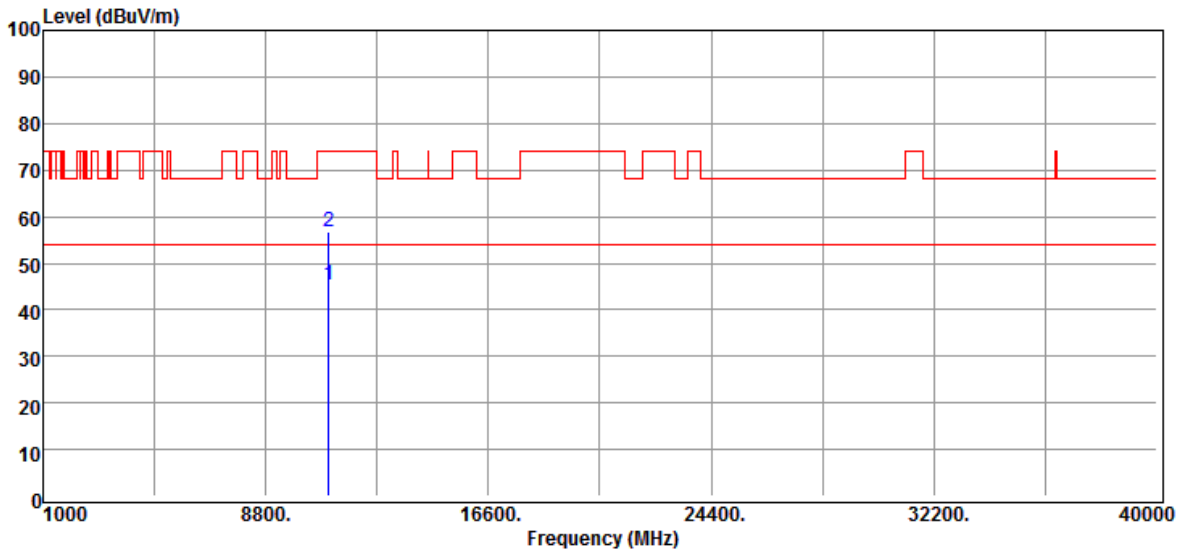
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode	:802.11n20 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Jerry



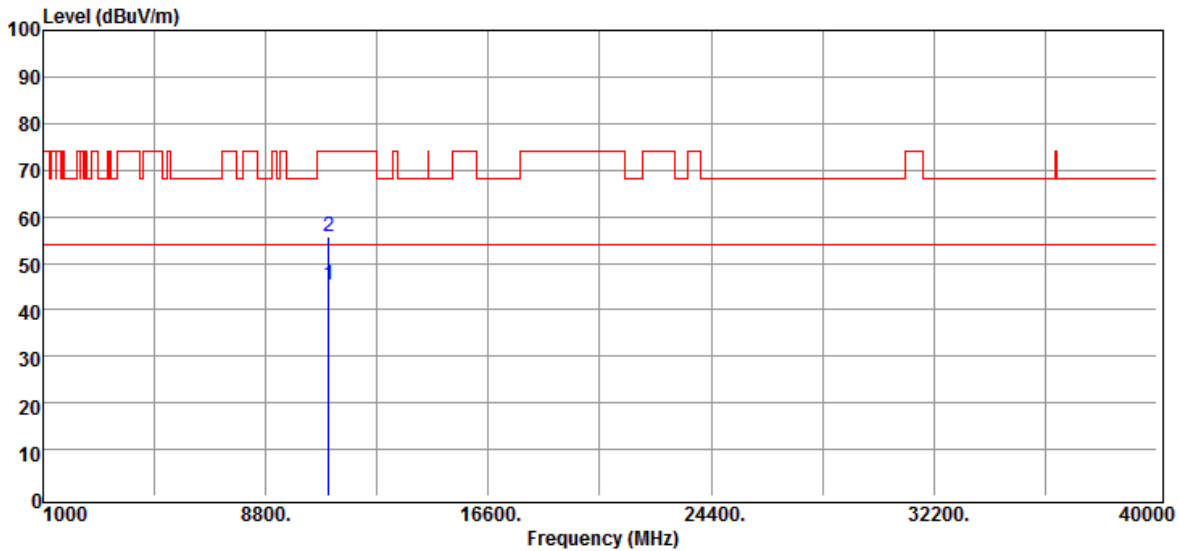
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	27.54	17.75	45.29	54.00	-8.71
11000.00	Peak	38.87	17.75	56.62	74.00	-17.38

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Operation Mode	:802.11n20 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Jerry

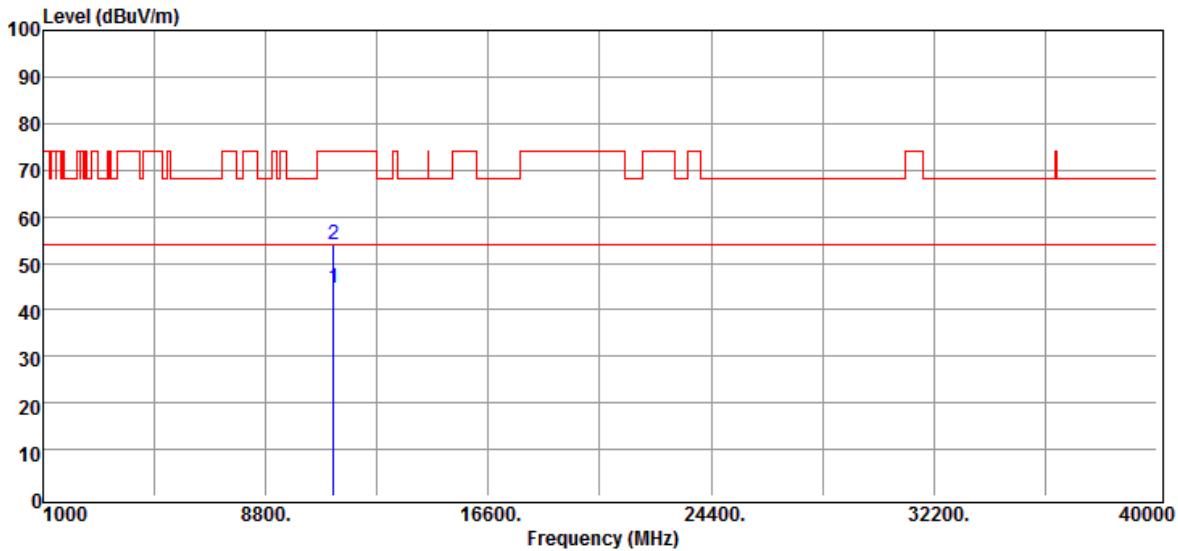


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	27.46	17.75	45.21	54.00	-8.79
11000.00	Peak	37.82	17.75	55.57	74.00	-18.43

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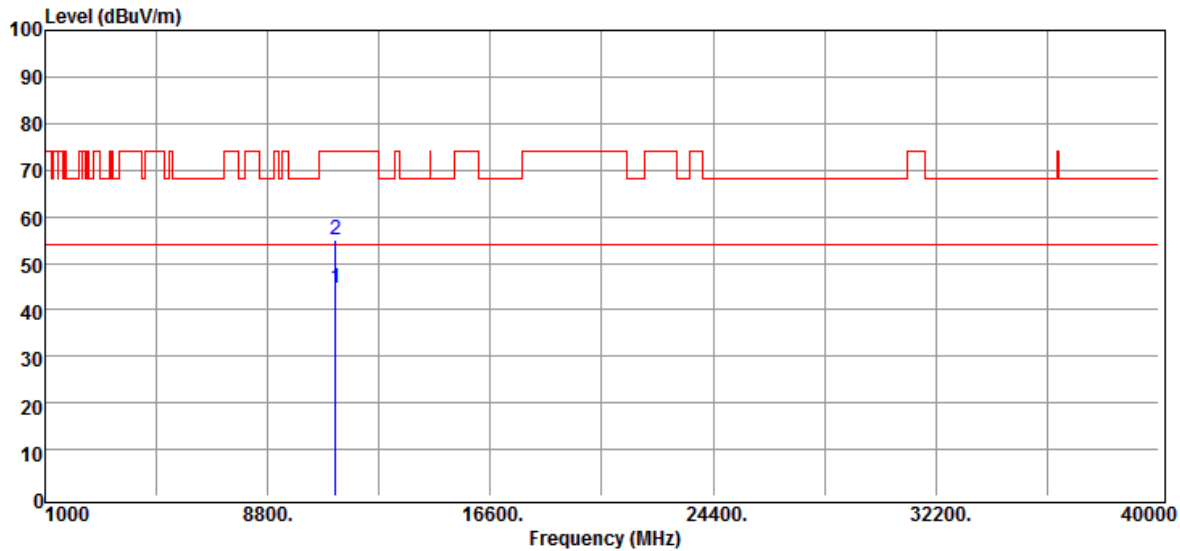
Operation Mode	:802.11n20 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	28.09	16.53	44.62	54.00	-9.38
11160.00	Peak	37.38	16.53	53.91	74.00	-20.09

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Operation Mode	:802.11n20 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5580 MHz	Engineer	:Jerry

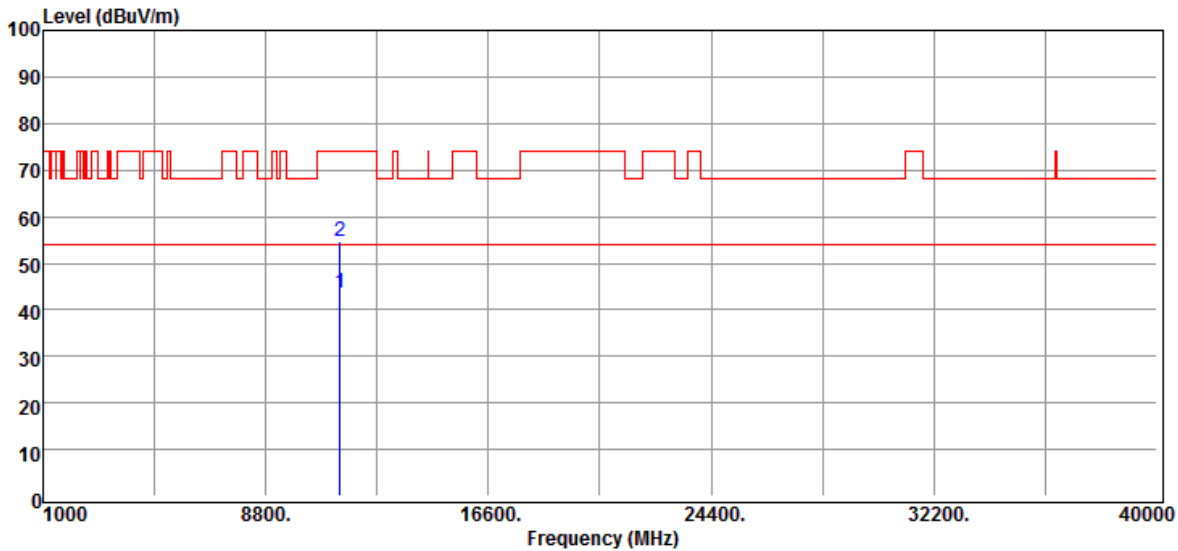


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	27.98	16.53	44.51	54.00	-9.49
11160.00	Peak	38.35	16.53	54.88	74.00	-19.12

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Operation Mode	:802.11n20 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Jerry



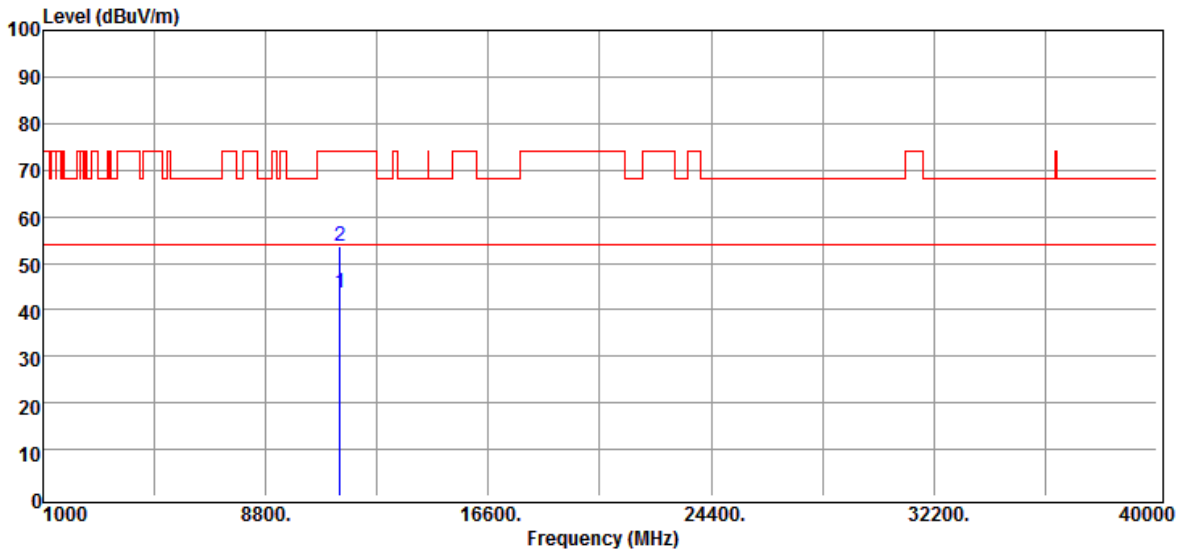
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	27.24	16.48	43.72	54.00	-10.28
11400.00	Peak	38.08	16.48	54.56	74.00	-19.44

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Operation Mode	:802.11n20 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Jerry

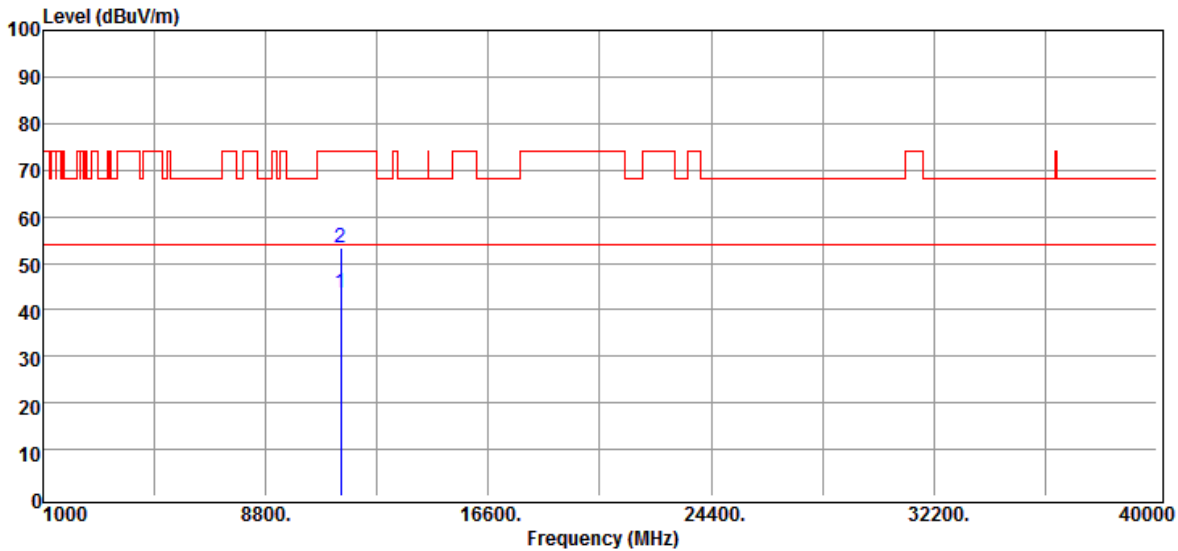


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	27.04	16.48	43.52	54.00	-10.48
11400.00	Peak	37.19	16.48	53.67	74.00	-20.33

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Operation Mode	:802.11n20 / Band 3-4	Test Date	:2019-03-13
Test Mode	:TX CH 144	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5720 MHz	Engineer	:Jerry



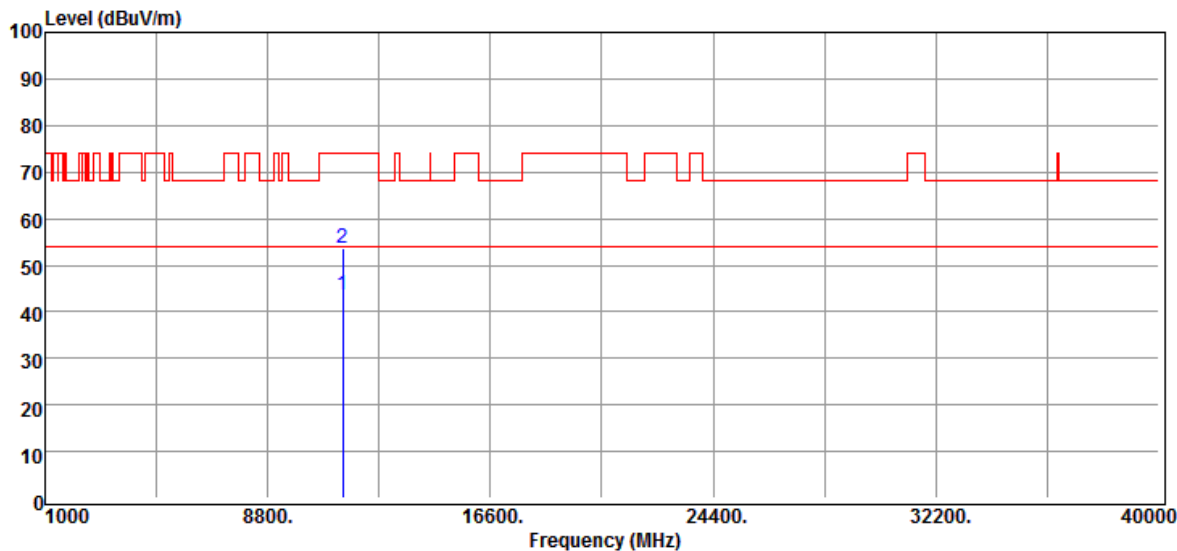
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	26.44	17.09	43.53	54.00	-10.47
11440.00	Peak	36.12	17.09	53.21	74.00	-20.79

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Operation Mode	:802.11n20 / Band 3-4	Test Date	:2019-03-13
Test Mode	:TX CH 144	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5720 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	26.63	17.09	43.72	54.00	-10.28
11440.00	Peak	36.61	17.09	53.70	74.00	-20.30

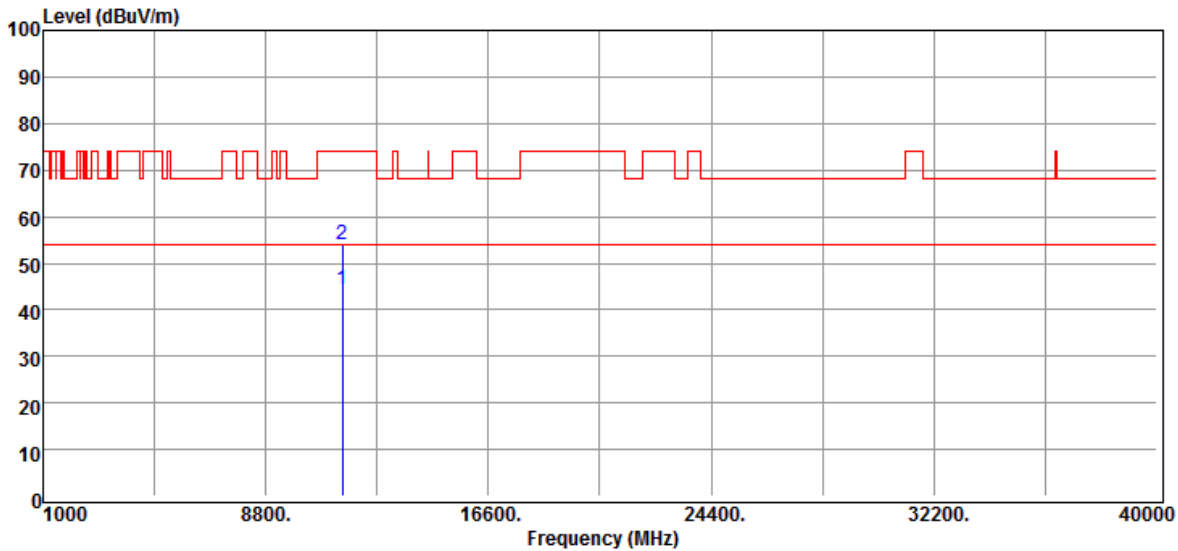
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode	:802.11n20 / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Jerry



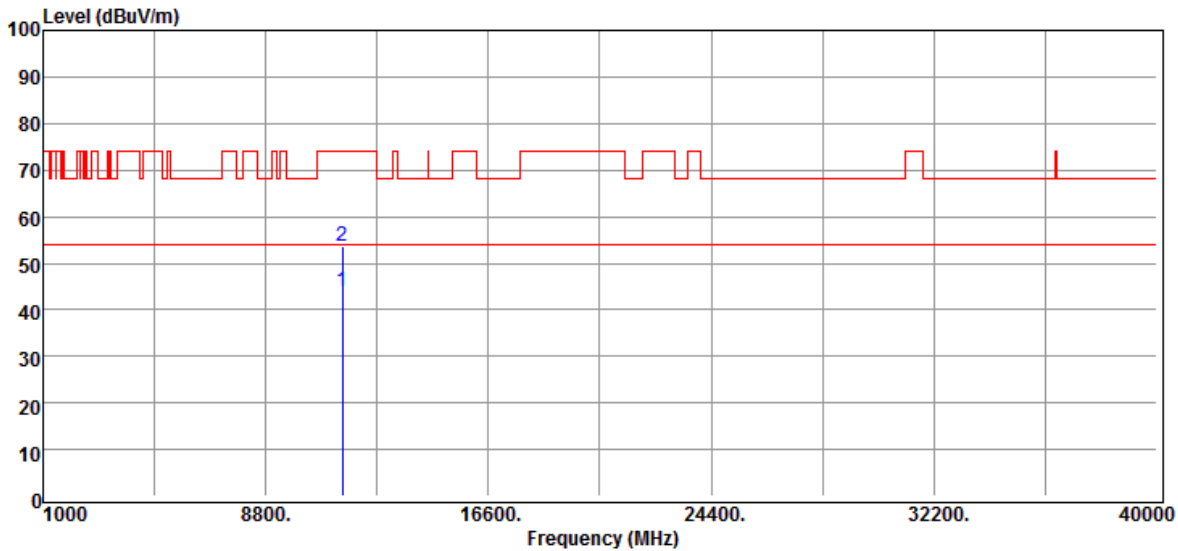
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	28.36	15.85	44.21	54.00	-9.79
11490.00	Peak	38.28	15.85	54.13	74.00	-19.87

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Operation Mode	:802.11n20 / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Jerry

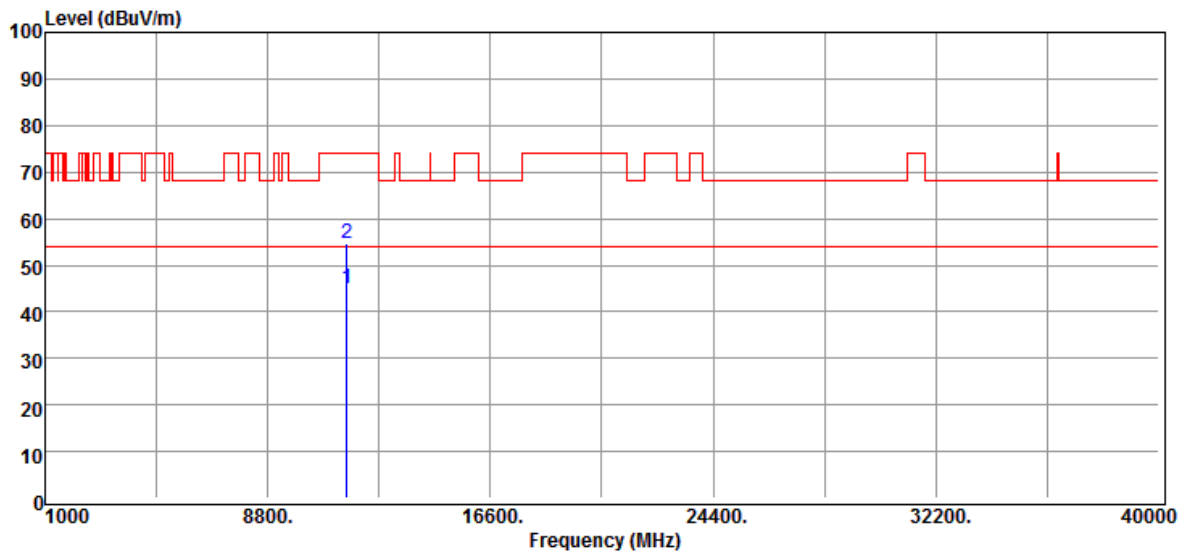


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	28.15	15.85	44.00	54.00	-10.00
11490.00	Peak	37.67	15.85	53.52	74.00	-20.48

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Operation Mode	:802.11n20 / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Jerry



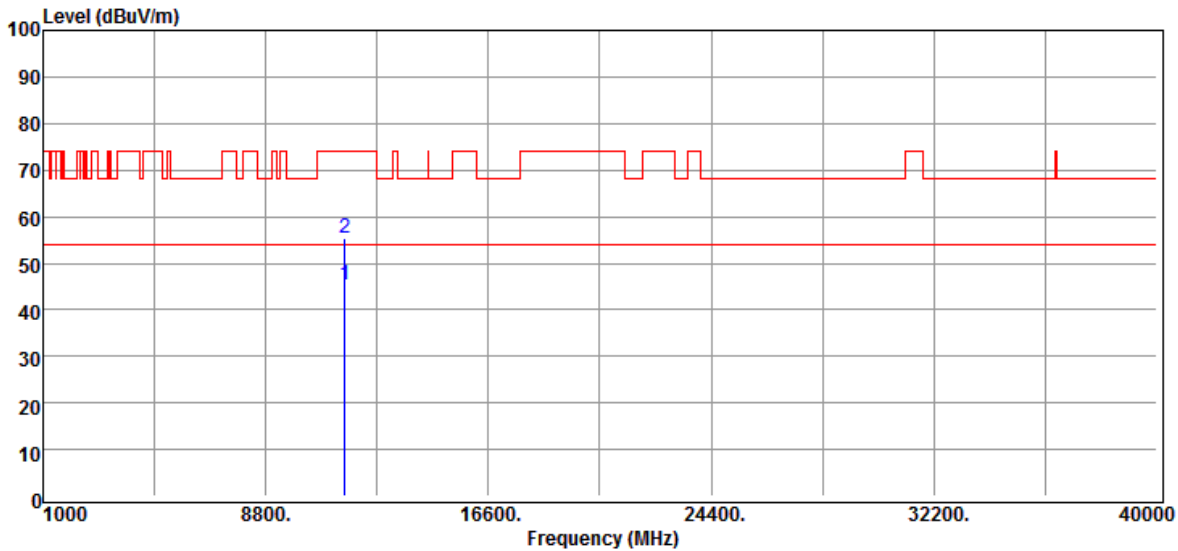
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.86	16.29	45.15	54.00	-8.85
11570.00	Peak	38.51	16.29	54.80	74.00	-19.20

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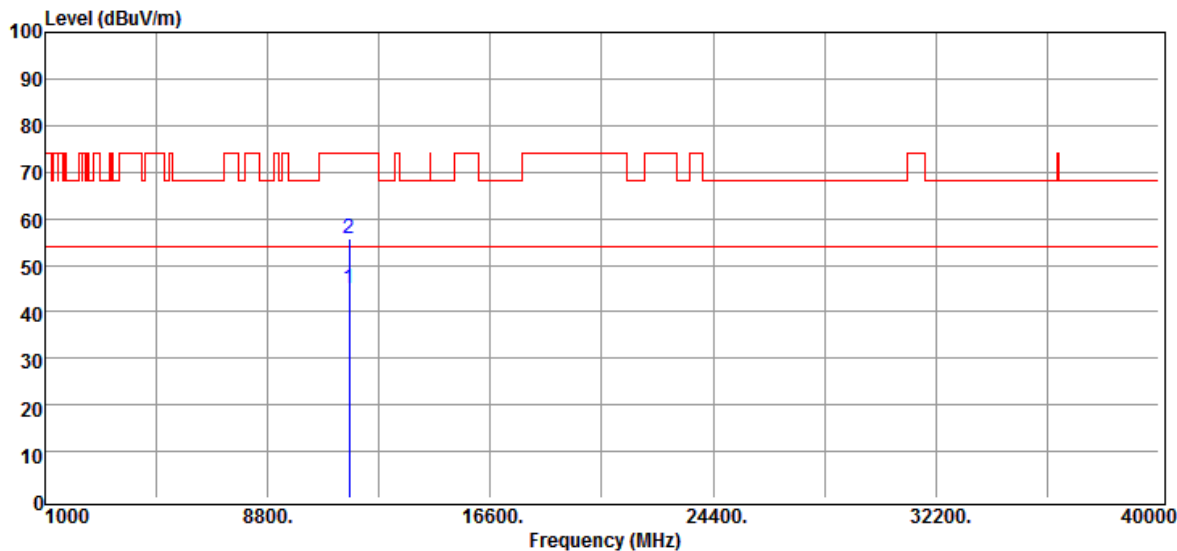
Operation Mode	:802.11n20 / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.90	16.29	45.19	54.00	-8.81
11570.00	Peak	38.92	16.29	55.21	74.00	-18.79

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Operation Mode	:802.11n20 / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Jerry



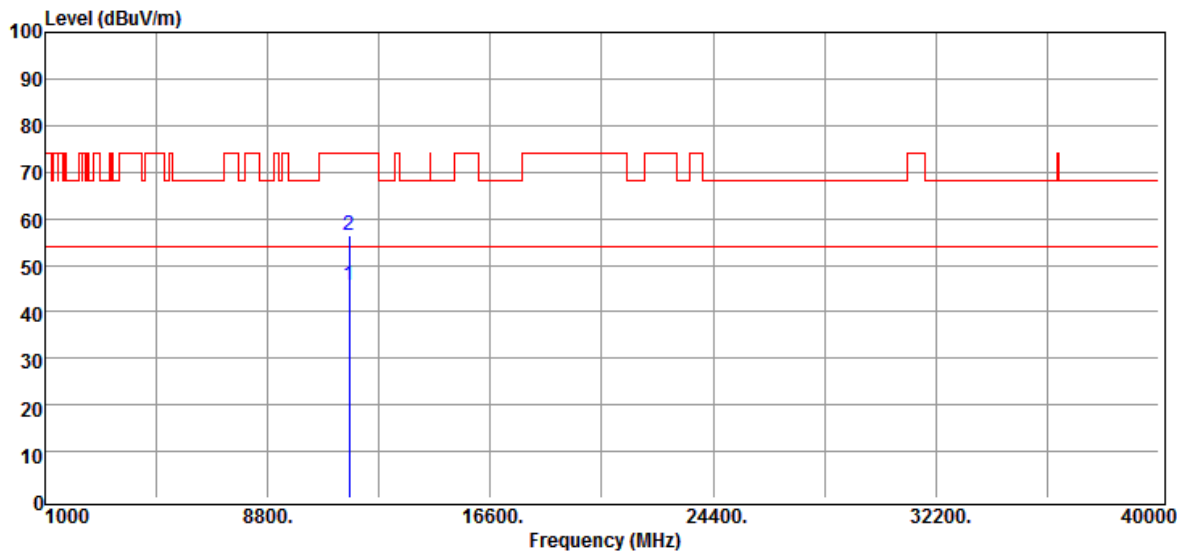
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	28.47	16.61	45.08	54.00	-8.92
11650.00	Peak	39.01	16.61	55.62	74.00	-18.38

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Operation Mode	:802.11n20 / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	28.92	16.61	45.53	54.00	-8.47
11650.00	Peak	39.95	16.61	56.56	74.00	-17.44

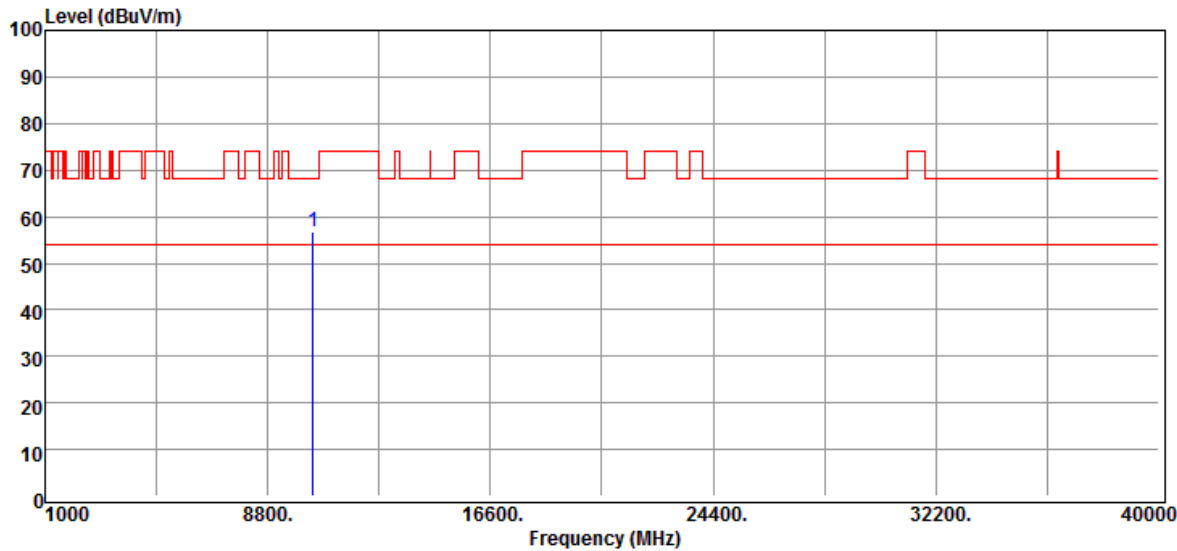
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode	:802.11n40 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5190 MHz	Engineer	:Jerry



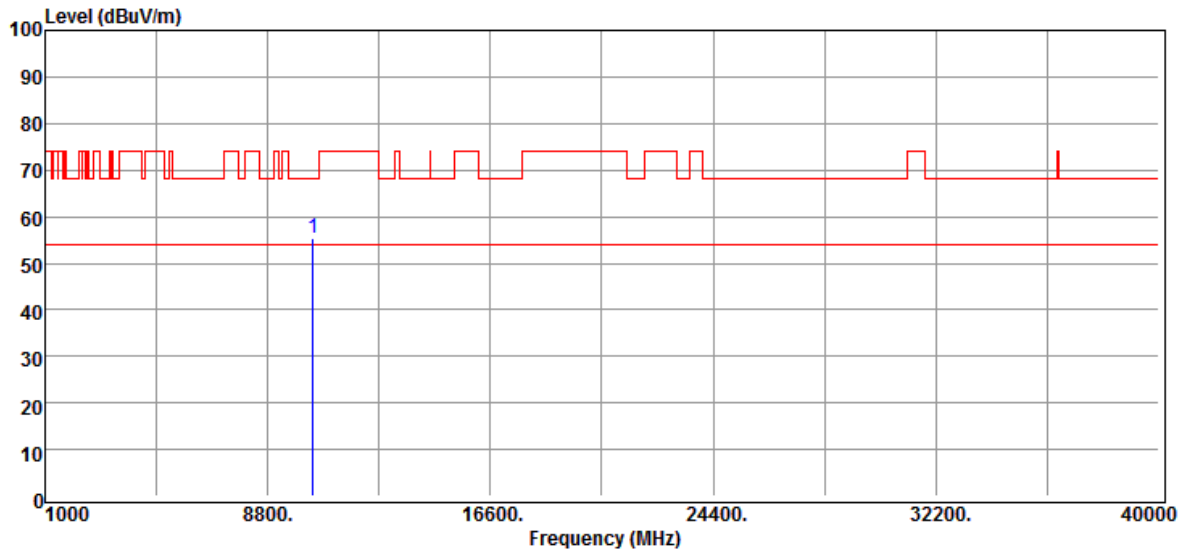
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	42.19	14.58	56.77	68.20	-11.43

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Operation Mode	:802.11n40 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5190 MHz	Engineer	:Jerry

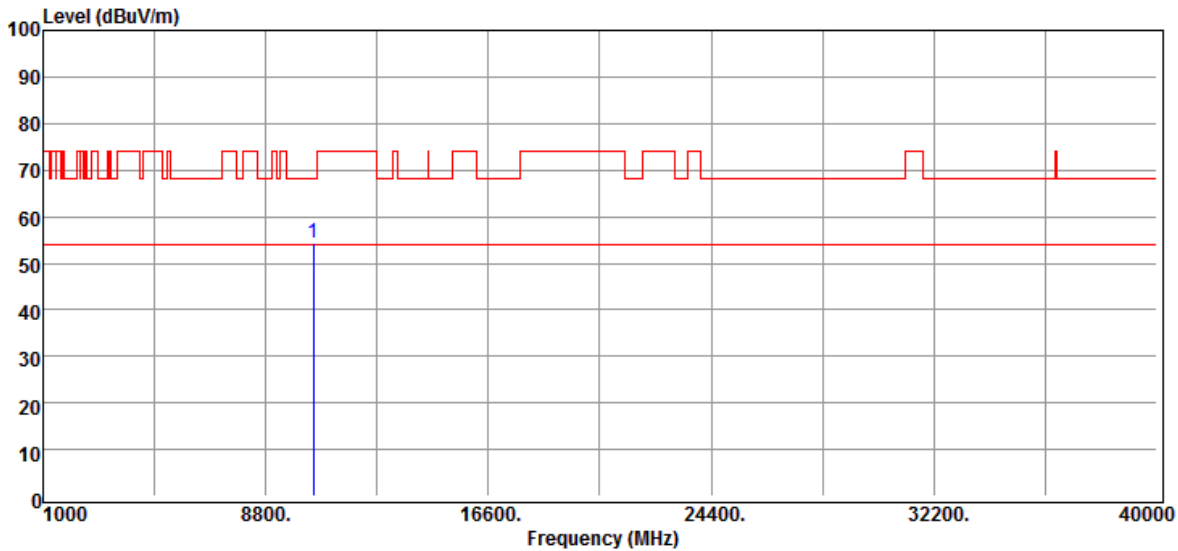


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	40.94	14.58	55.52	68.20	-12.68

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Operation Mode	:802.11n40 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5230 MHz	Engineer	:Jerry

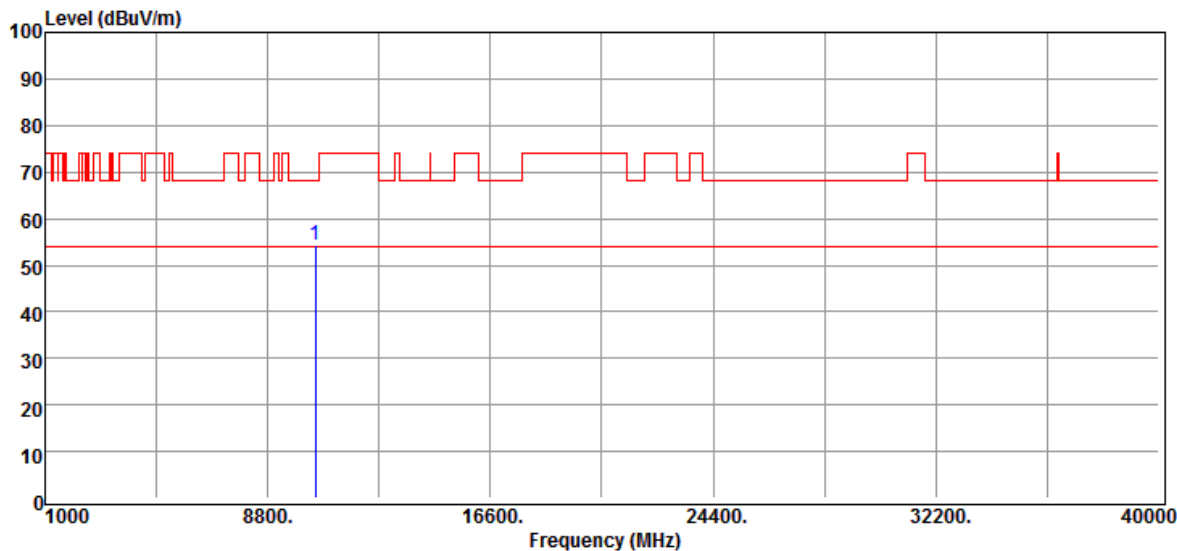


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	38.43	15.97	54.40	68.20	-13.80

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Operation Mode	:802.11n40 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5230 MHz	Engineer	:Jerry



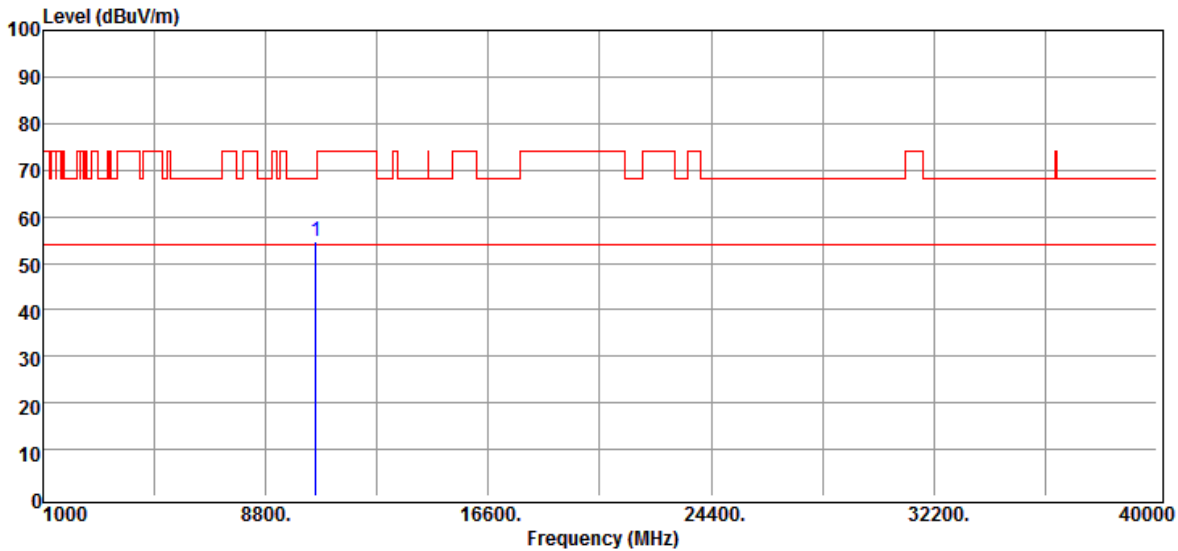
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	38.37	15.97	54.34	68.20	-13.86

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode	:802.11n40 / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5270 MHz	Engineer	:Jerry



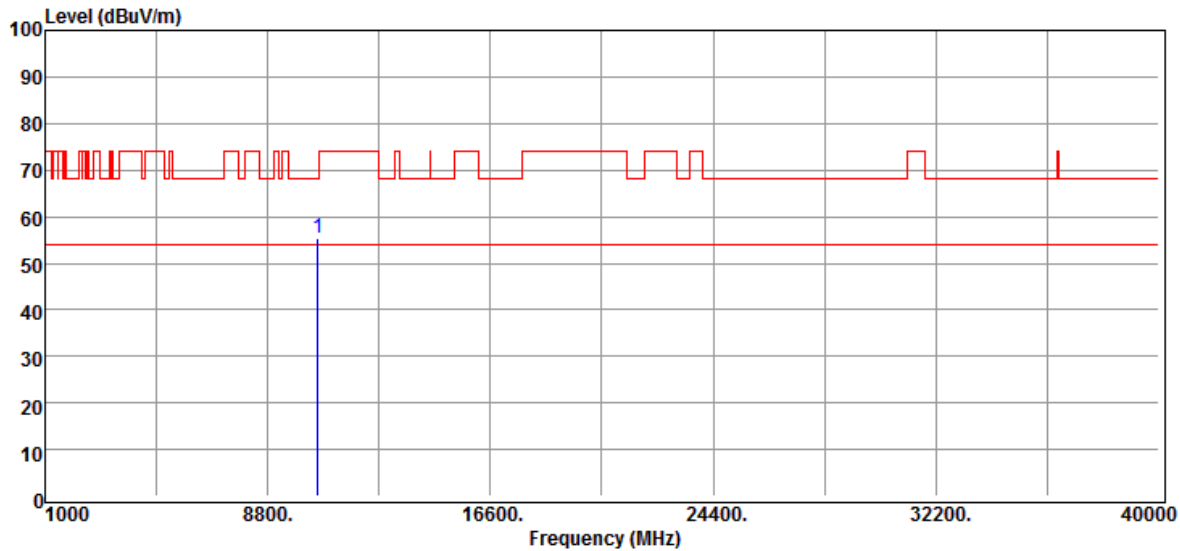
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	38.87	15.67	54.54	68.20	-13.66

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Operation Mode	:802.11n40 / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5270 MHz	Engineer	:Jerry

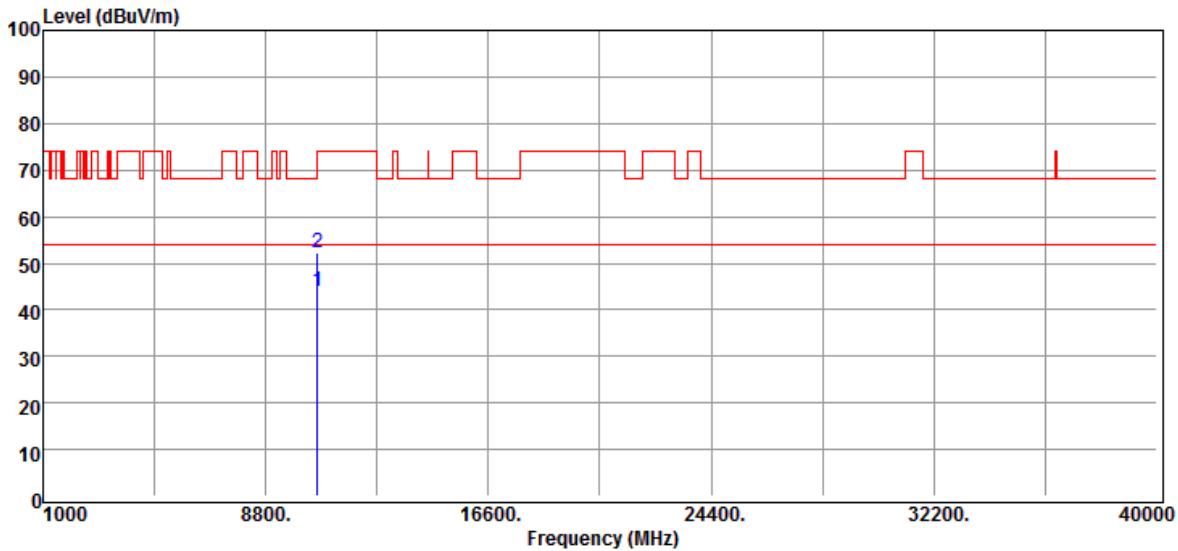


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	39.83	15.67	55.50	68.20	-12.70

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Operation Mode	:802.11n40 / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5310 MHz	Engineer	:Jerry



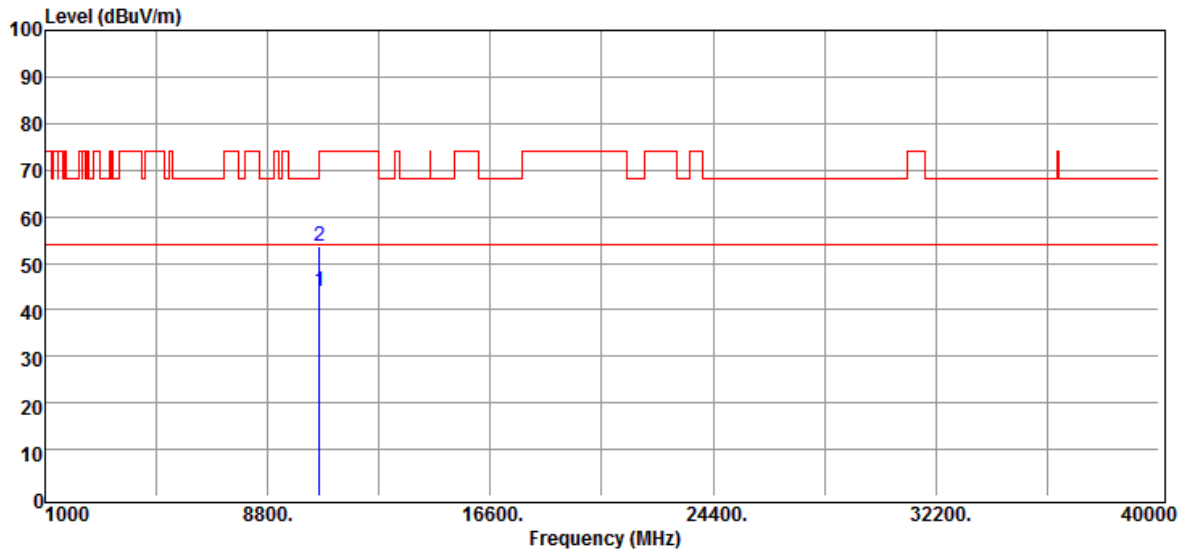
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	28.13	15.78	43.91	54.00	-10.09
10620.00	Peak	36.35	15.78	52.13	74.00	-21.87

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Operation Mode	:802.11n40 / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5310 MHz	Engineer	:Jerry



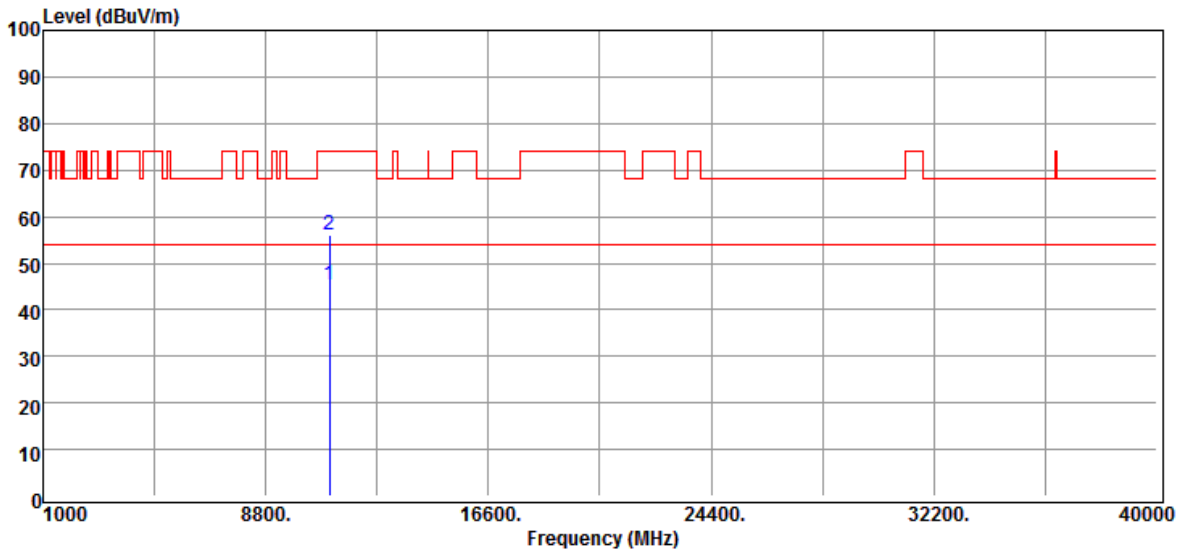
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	28.06	15.78	43.84	54.00	-10.16
10620.00	Peak	37.96	15.78	53.74	74.00	-20.26

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode	:802.11n40 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5510 MHz	Engineer	:Jerry



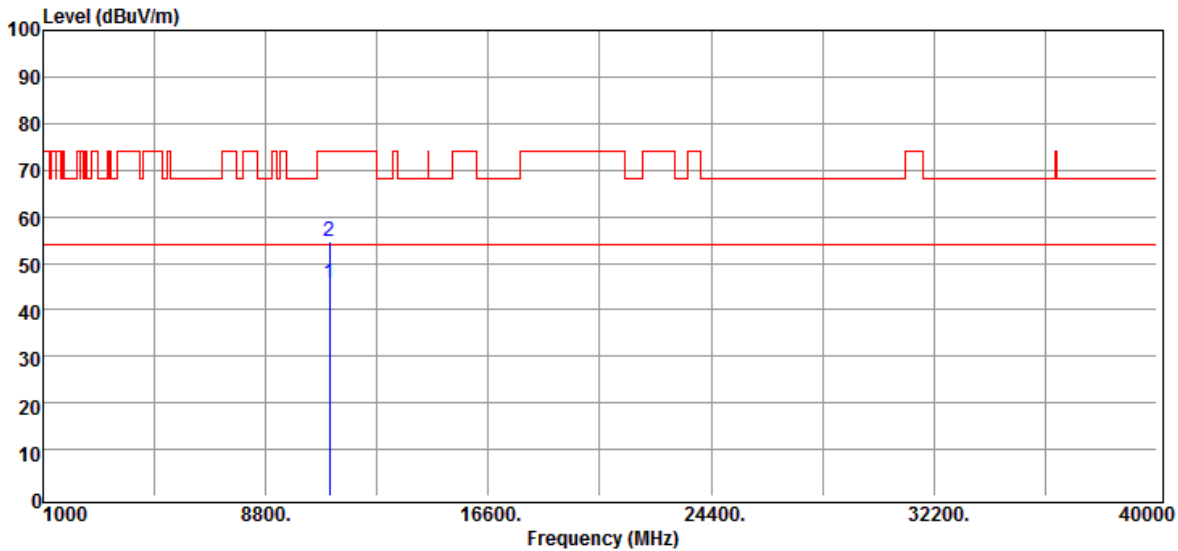
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Average	27.59	17.87	45.46	54.00	-8.54
11020.00	Peak	38.01	17.87	55.88	74.00	-18.12

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Operation Mode	:802.11n40 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5510 MHz	Engineer	:Jerry

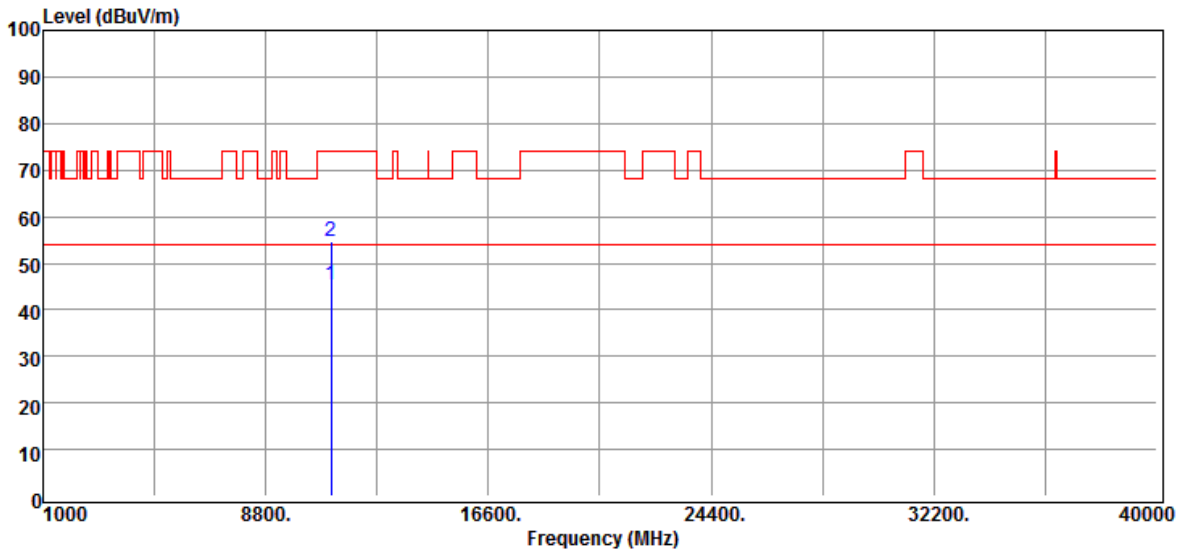


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Average	27.63	17.87	45.50	54.00	-8.50
11020.00	Peak	36.74	17.87	54.61	74.00	-19.39

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Operation Mode	:802.11n40 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5550 MHz	Engineer	:Jerry

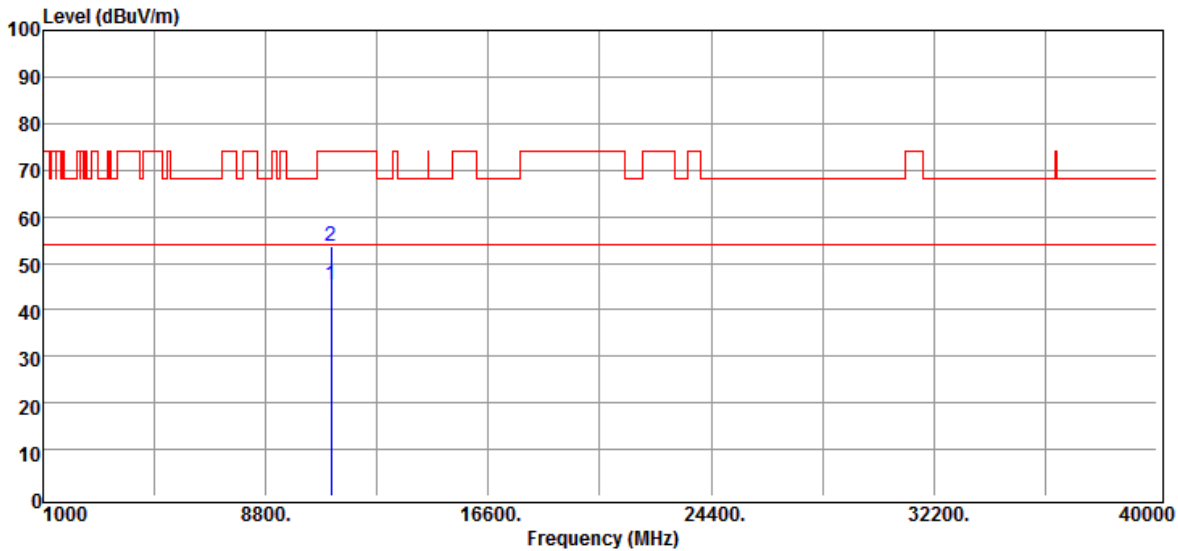


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	28.24	17.25	45.49	54.00	-8.51
11100.00	Peak	37.57	17.25	54.82	74.00	-19.18

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Operation Mode	:802.11n40 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5550 MHz	Engineer	:Jerry

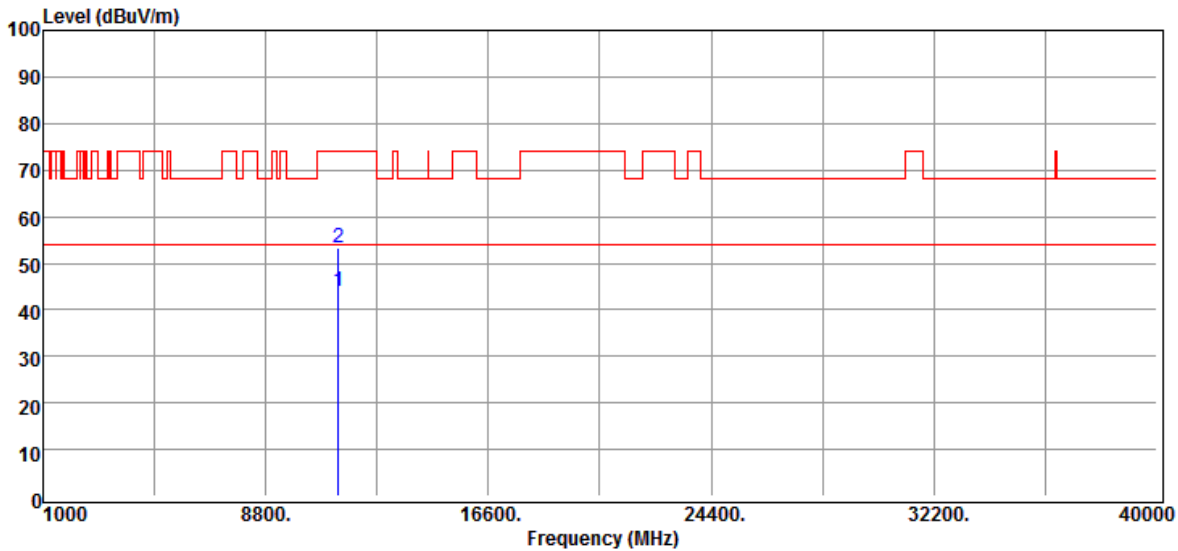


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	28.14	17.25	45.39	54.00	-8.61
11100.00	Peak	36.25	17.25	53.50	74.00	-20.50

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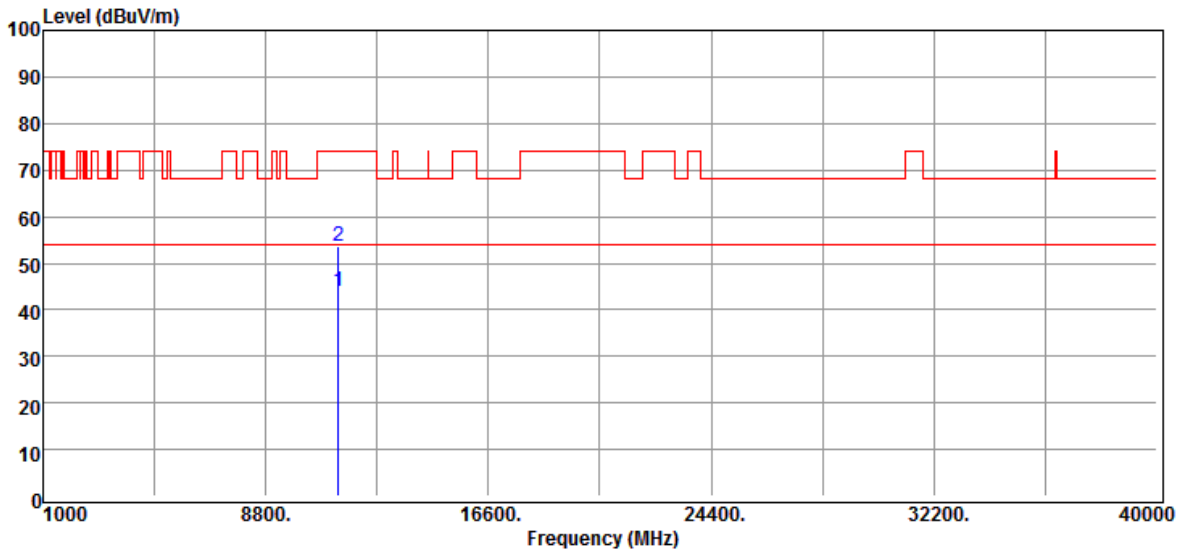
Operation Mode	:802.11n40 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5670 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Average	27.49	16.36	43.85	54.00	-10.15
11340.00	Peak	36.89	16.36	53.25	74.00	-20.75

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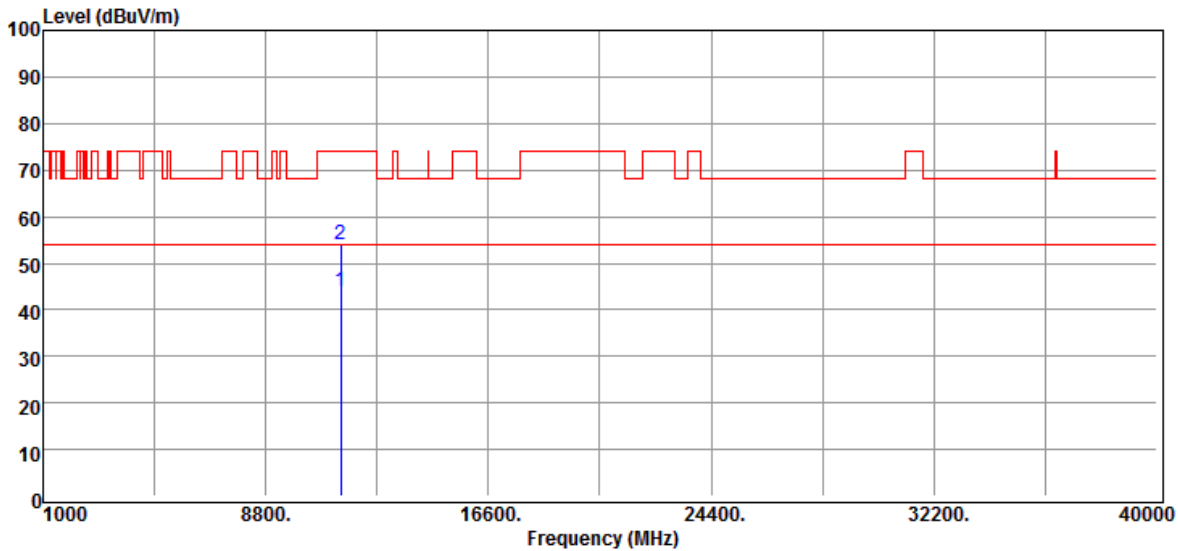
Operation Mode	:802.11n40 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5670 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Average	27.49	16.36	43.85	54.00	-10.15
11340.00	Peak	37.27	16.36	53.63	74.00	-20.37

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Operation Mode	:802.11n40 / Band 3-4	Test Date	:2019-03-13
Test Mode	:TX CH 142	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5710 MHz	Engineer	:Jerry



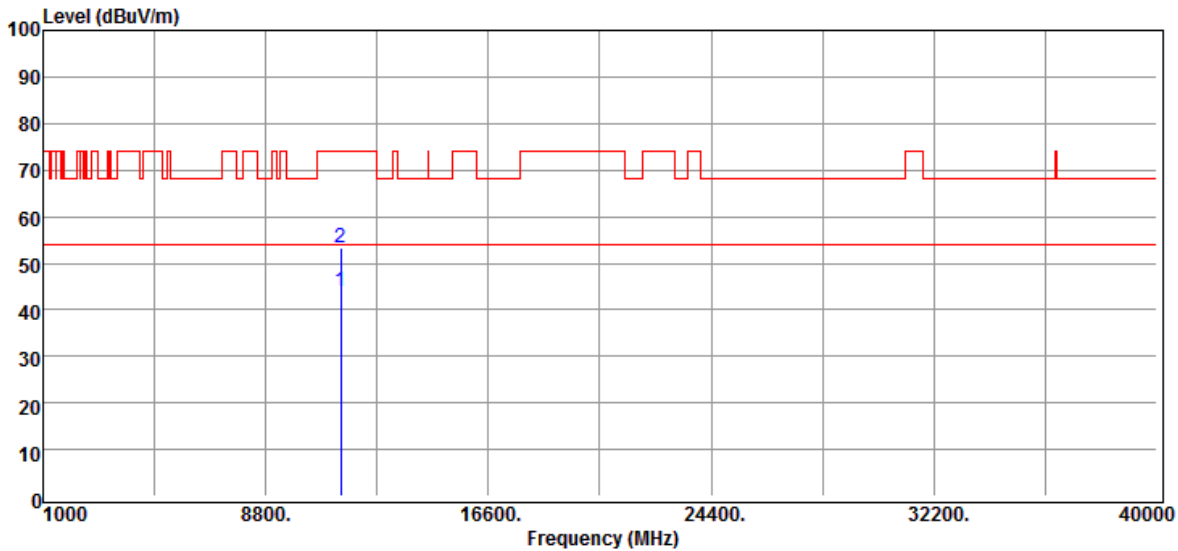
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	27.23	16.87	44.10	54.00	-9.90
11420.00	Peak	37.15	16.87	54.02	74.00	-19.98

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Operation Mode	:802.11n40 / Band 3-4	Test Date	:2019-03-13
Test Mode	:TX CH 142	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5710 MHz	Engineer	:Jerry



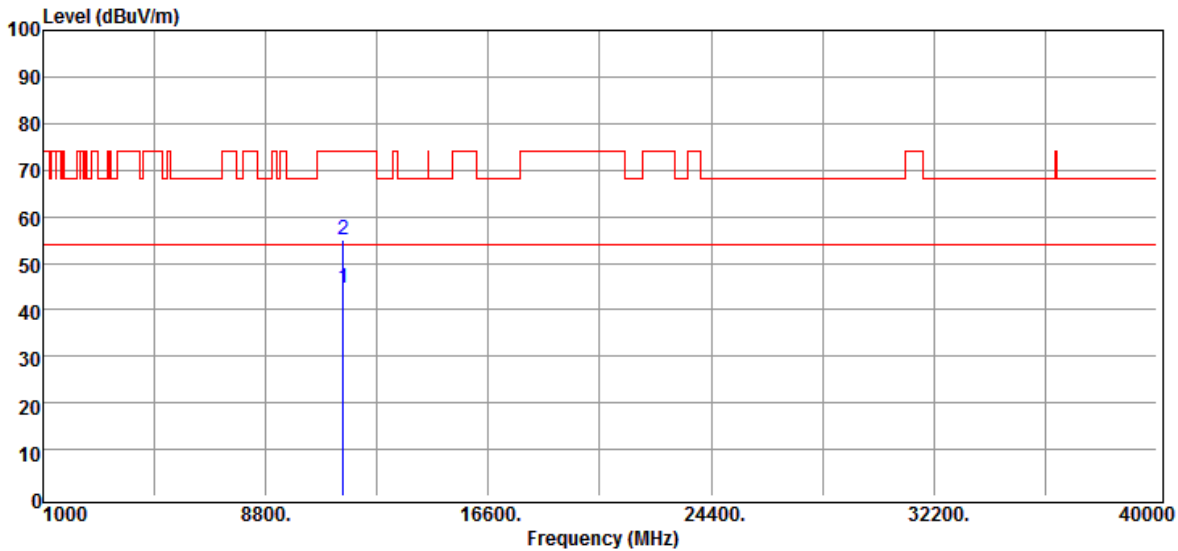
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	26.91	16.87	43.78	54.00	-10.22
11420.00	Peak	36.27	16.87	53.14	74.00	-20.86

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode	:802.11n40 / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5755 MHz	Engineer	:Jerry



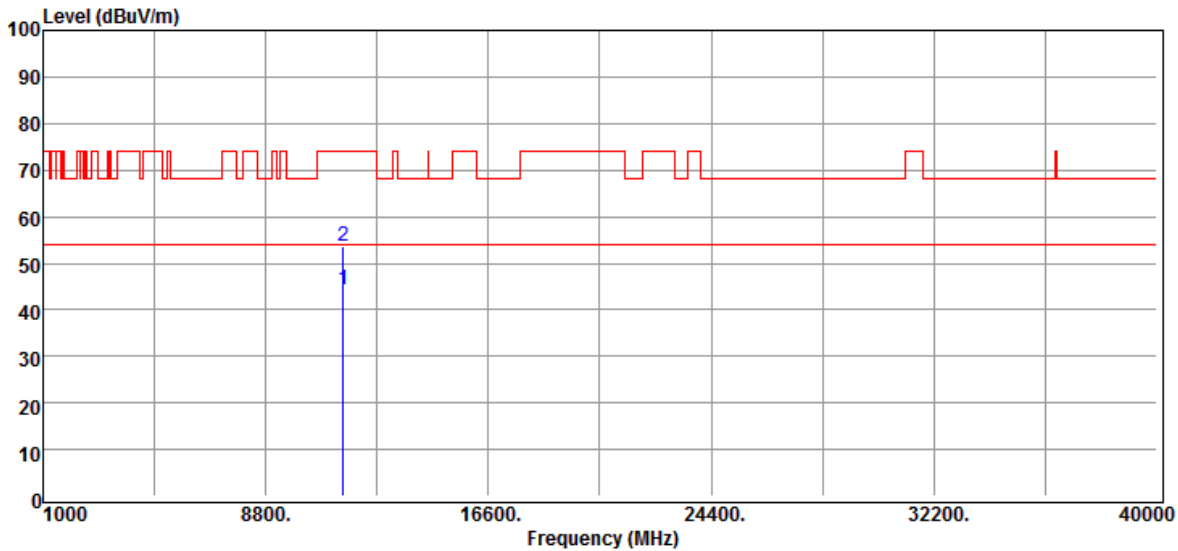
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	29.25	15.41	44.66	54.00	-9.34
11510.00	Peak	39.75	15.41	55.16	74.00	-18.84

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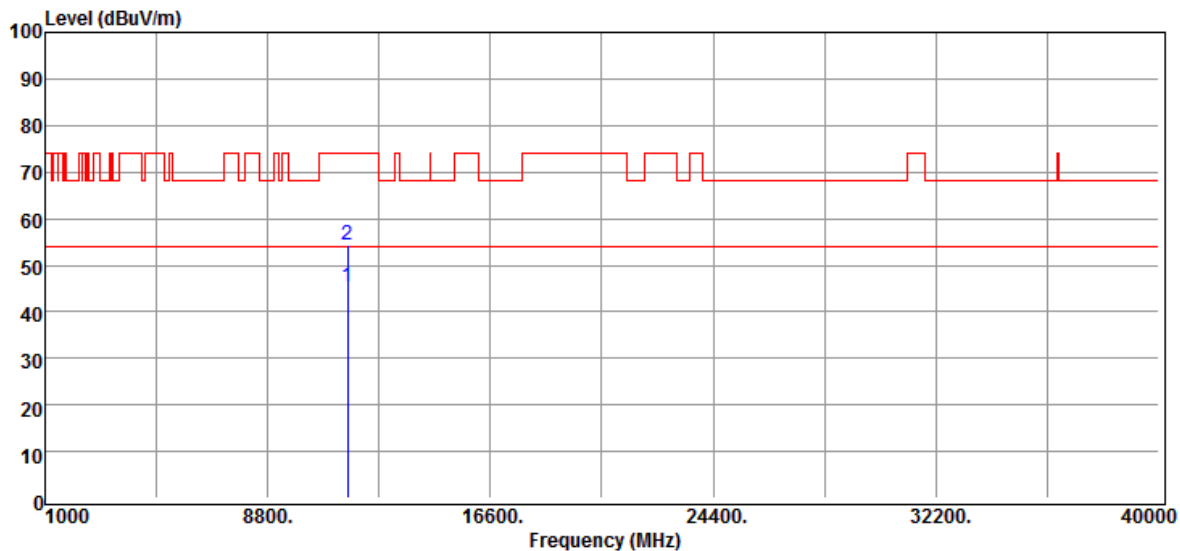
Operation Mode	:802.11n40 / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5755 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	29.02	15.41	44.43	54.00	-9.57
11510.00	Peak	38.27	15.41	53.68	74.00	-20.32

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Operation Mode	:802.11n40 / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5795 MHz	Engineer	:Jerry



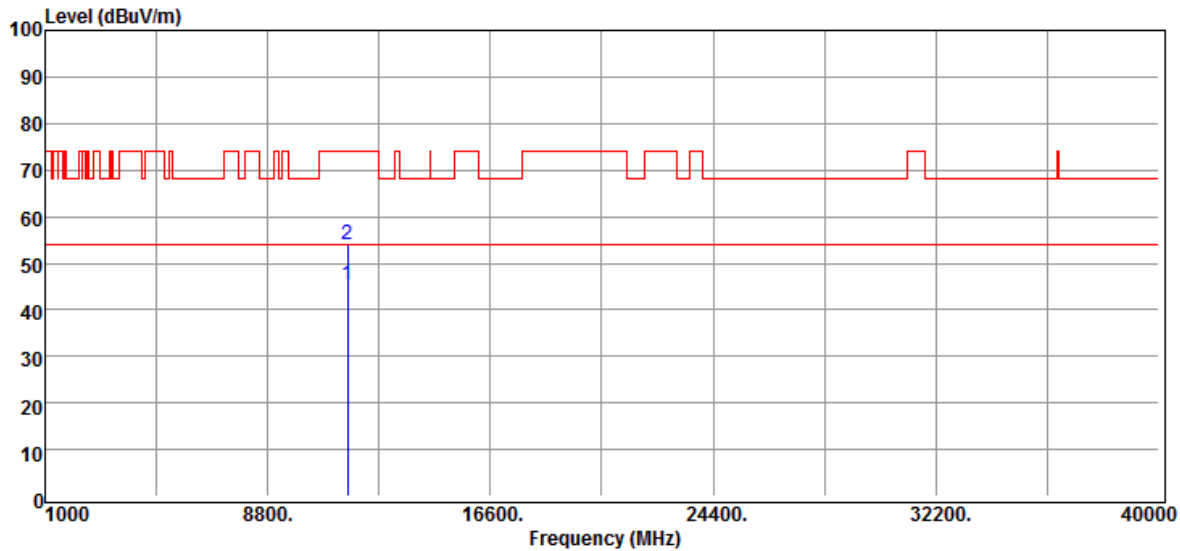
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	28.64	16.81	45.45	54.00	-8.55
11590.00	Peak	37.65	16.81	54.46	74.00	-19.54

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Operation Mode	:802.11n40 / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5795 MHz	Engineer	:Jerry



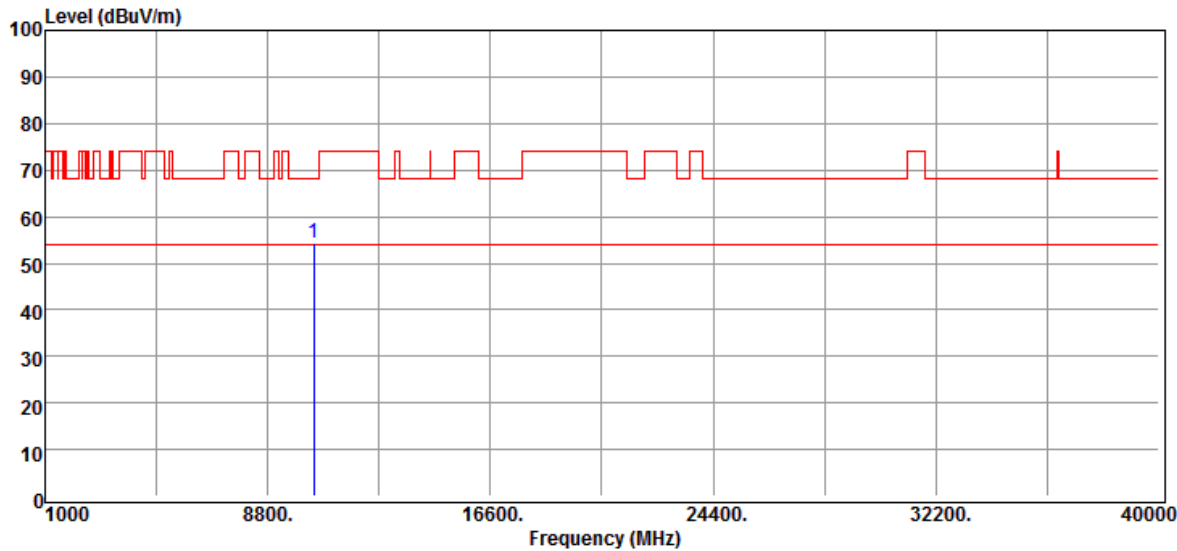
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	28.61	16.81	45.42	54.00	-8.58
11590.00	Peak	37.20	16.81	54.01	74.00	-19.99

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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode	:802.11ac80 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Jerry



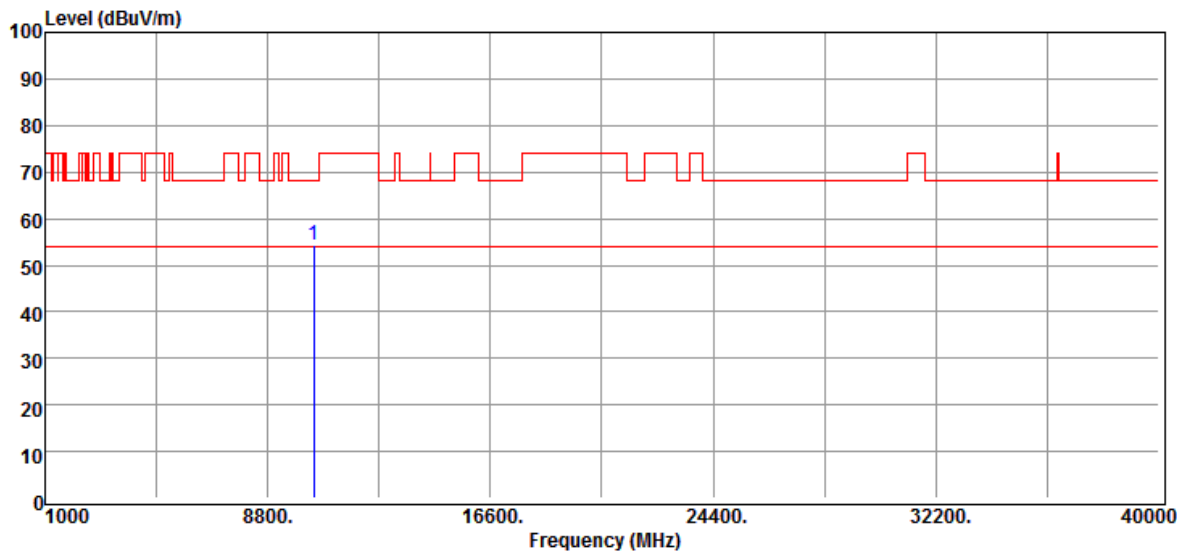
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	39.07	15.12	54.19	68.20	-14.01

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Operation Mode	:802.11ac80 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5210 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	39.21	15.12	54.33	68.20	-13.87

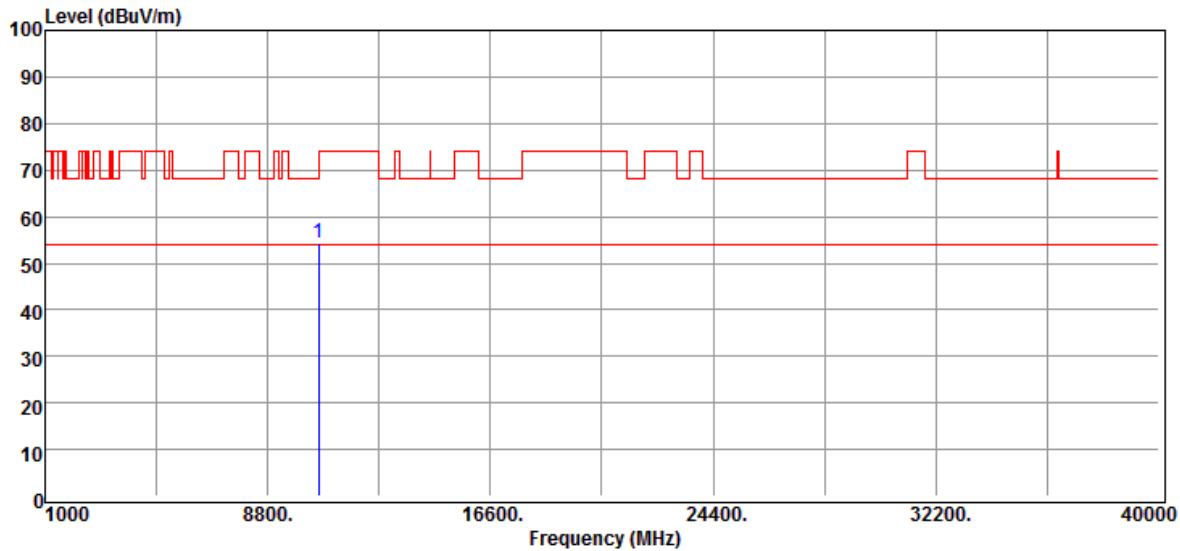
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode	:802.11ac80 / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Jerry



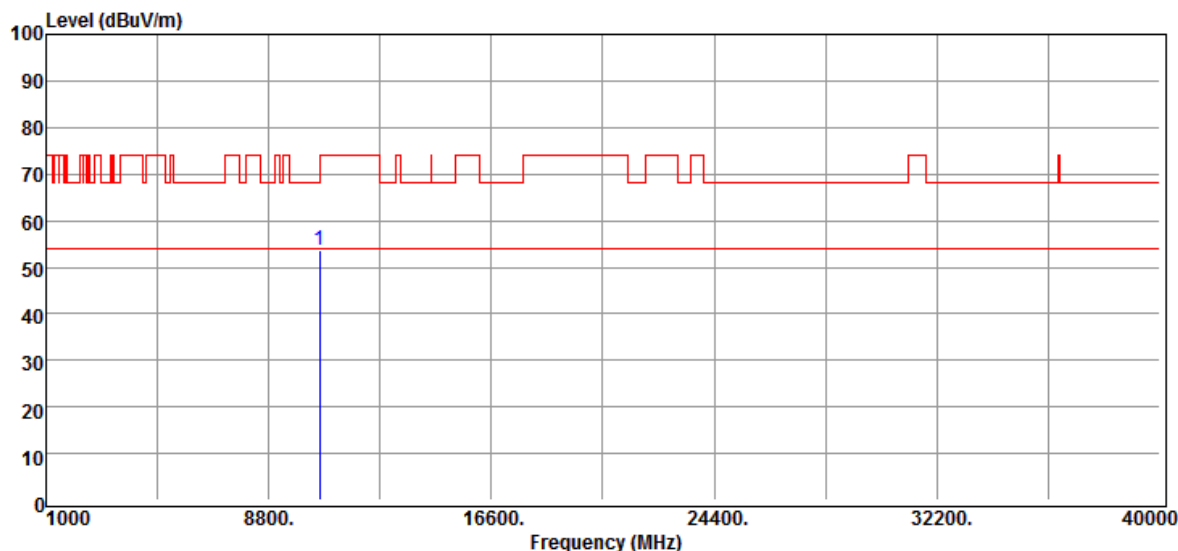
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	38.76	15.43	54.19	68.20	-14.01

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Operation Mode	:802.11ac80 / Band 2	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	38.08	15.43	53.51	68.20	-14.69

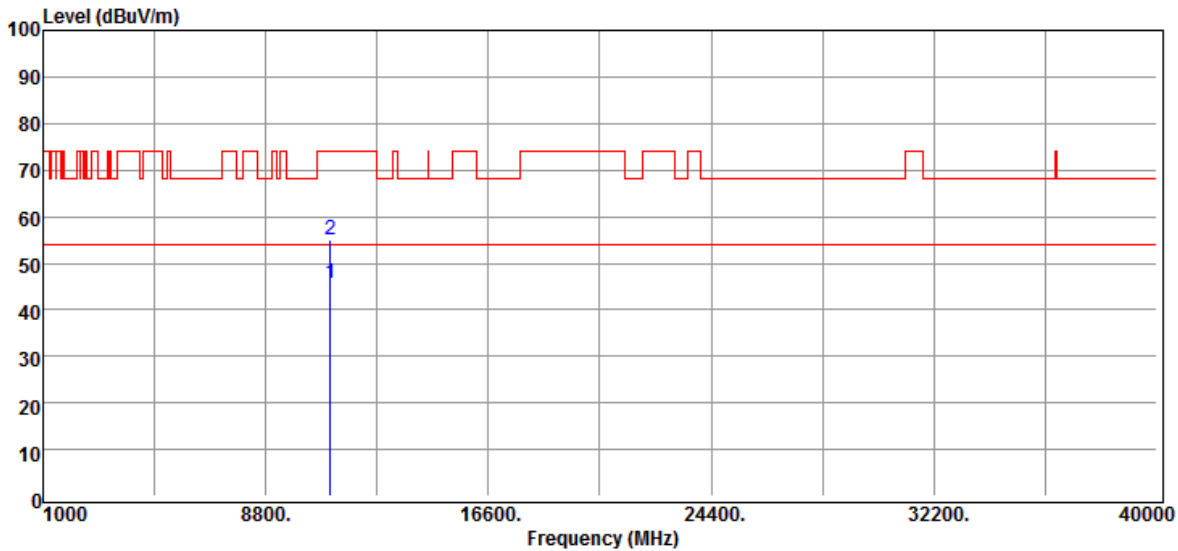
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode	:802.11ac80 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5530 MHz	Engineer	:Jerry



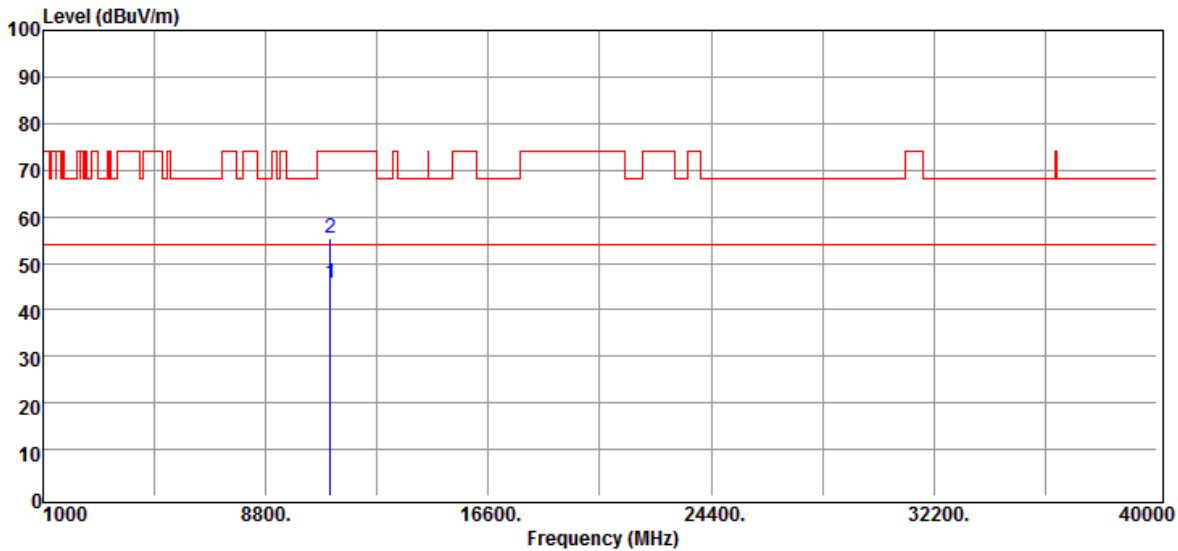
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	28.02	17.50	45.52	54.00	-8.48
11060.00	Peak	37.47	17.50	54.97	74.00	-19.03

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Operation Mode	:802.11ac80 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5530 MHz	Engineer	:Jerry

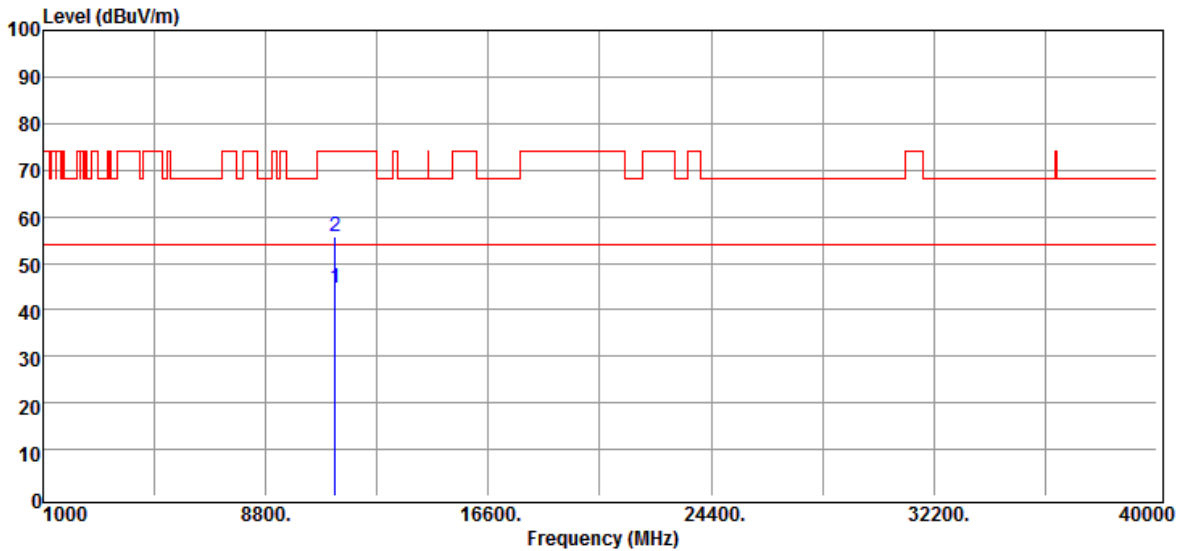


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	28.05	17.50	45.55	54.00	-8.45
11060.00	Peak	37.79	17.50	55.29	74.00	-18.71

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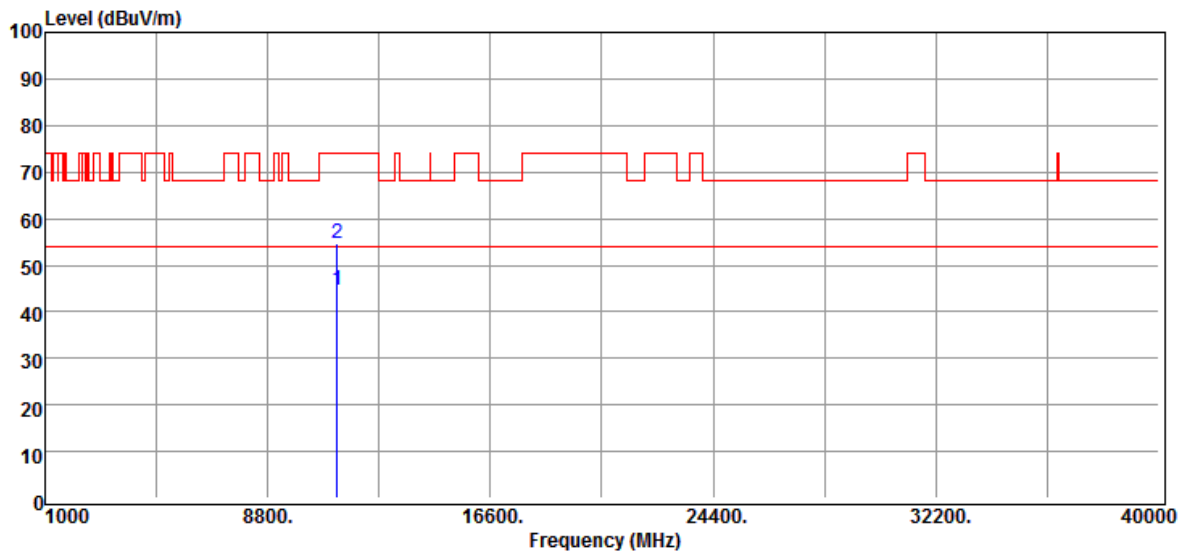
Operation Mode	:802.11ac80 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5610 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	28.20	16.53	44.73	54.00	-9.27
11220.00	Peak	39.24	16.53	55.77	74.00	-18.23

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Operation Mode	:802.11ac80 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5610 MHz	Engineer	:Jerry

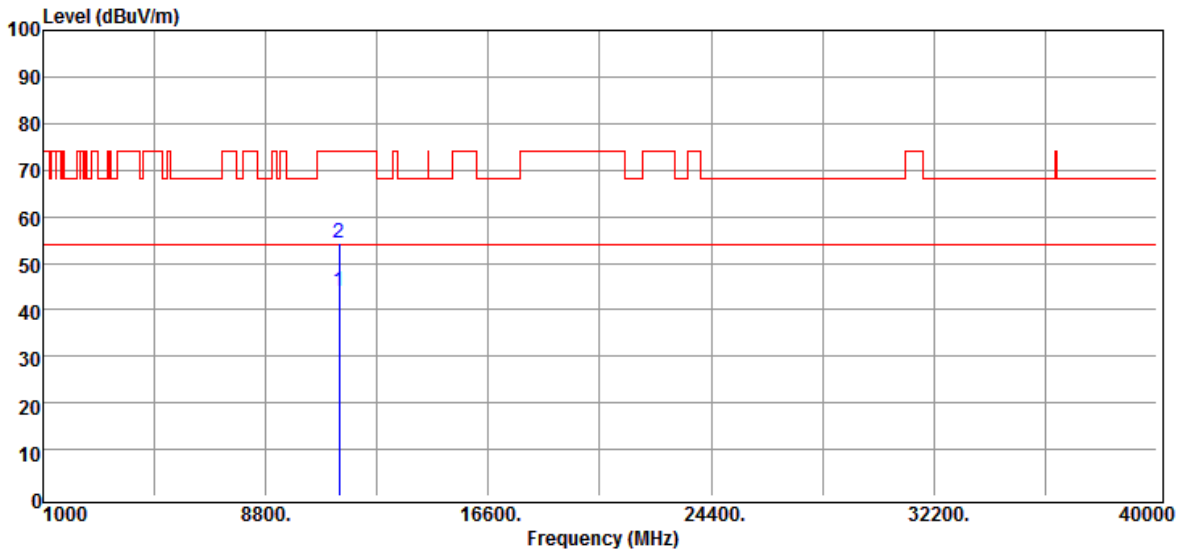


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	28.00	16.53	44.53	54.00	-9.47
11220.00	Peak	38.06	16.53	54.59	74.00	-19.41

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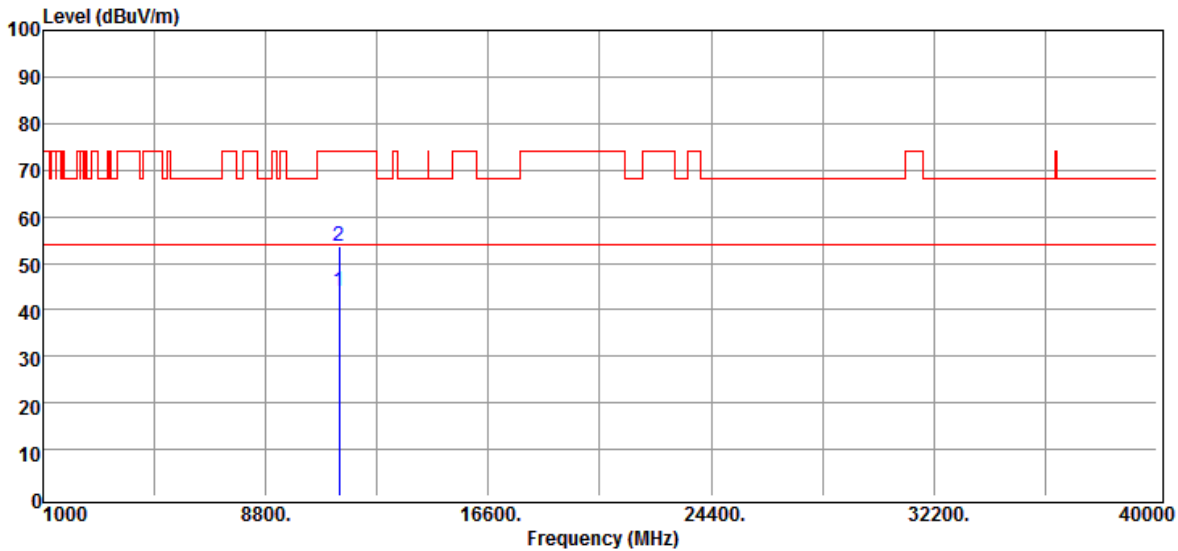
Operation Mode	:802.11ac80 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5690 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	27.55	16.48	44.03	54.00	-9.97
11380.00	Peak	37.71	16.48	54.19	74.00	-19.81

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Operation Mode	:802.11ac80 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/54
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5690 MHz	Engineer	:Jerry

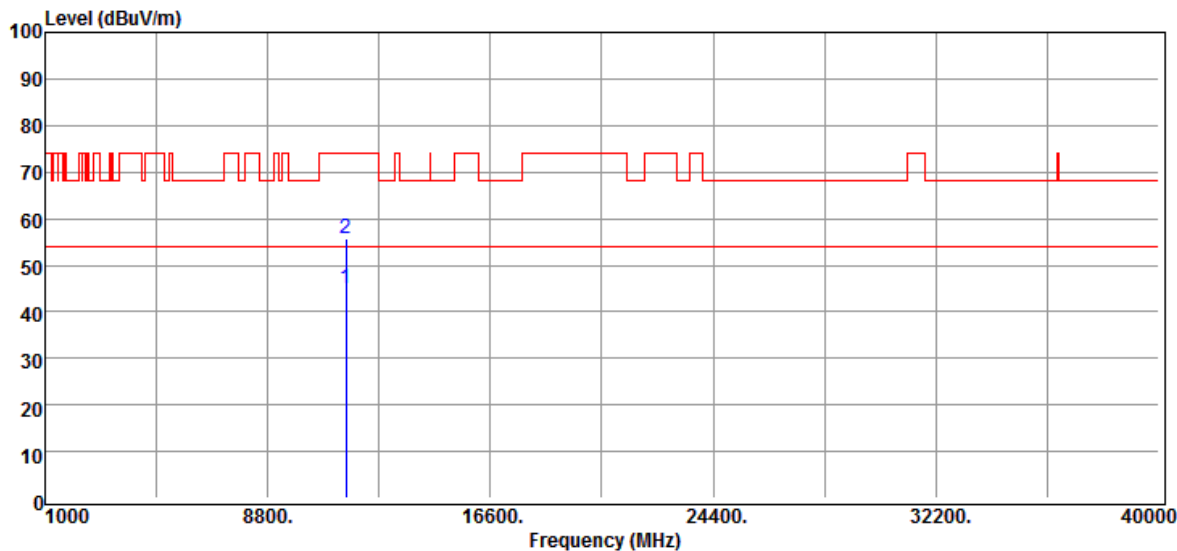


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	27.56	16.48	44.04	54.00	-9.96
11380.00	Peak	37.06	16.48	53.54	74.00	-20.46

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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode	:802.11ac80 / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Jerry



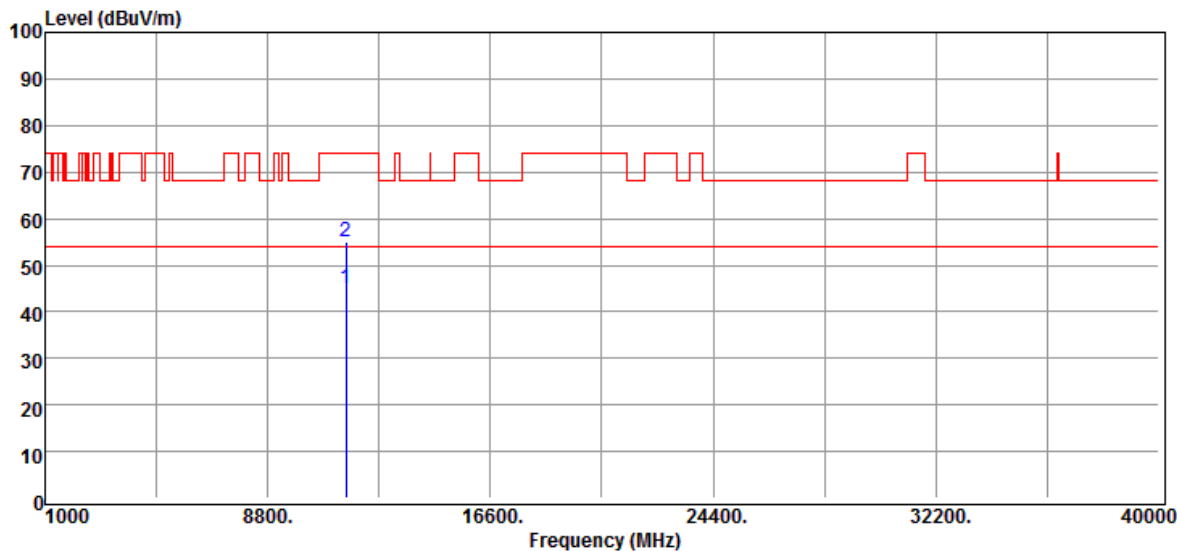
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	29.20	15.82	45.02	54.00	-8.98
11550.00	Peak	39.82	15.82	55.64	74.00	-18.36

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Operation Mode	:802.11ac80 / Band 4	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	29.14	15.82	44.96	54.00	-9.04
11550.00	Peak	39.32	15.82	55.14	74.00	-18.86

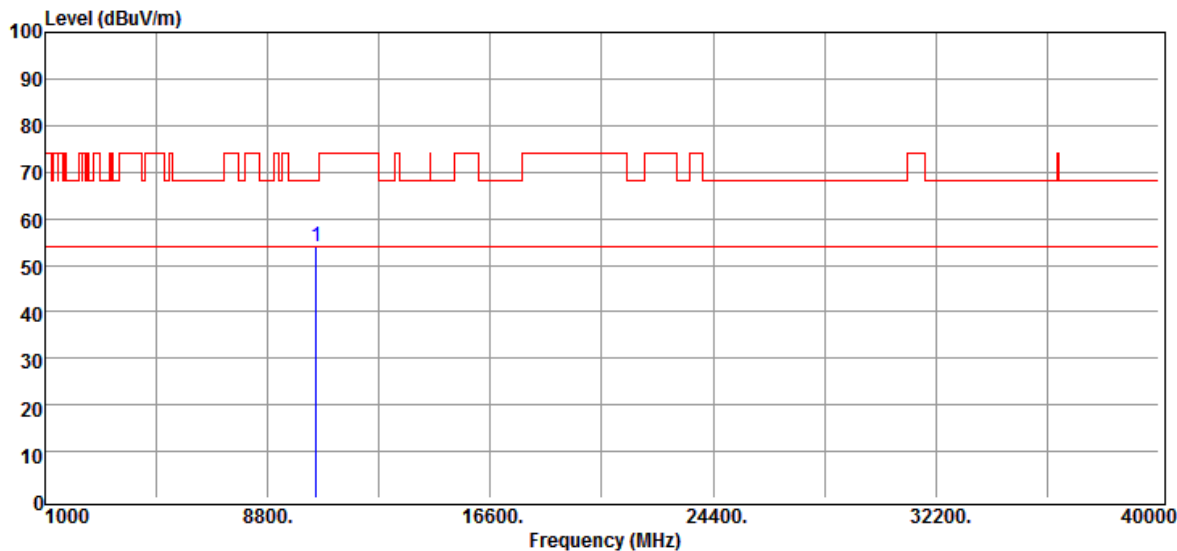
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Radiated Spurious Emission Measurement Result 802.11ac VHT160, 5150~5350 MHz

Operation Mode	:802.11ac160 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5250 MHz	Engineer	:Jerry



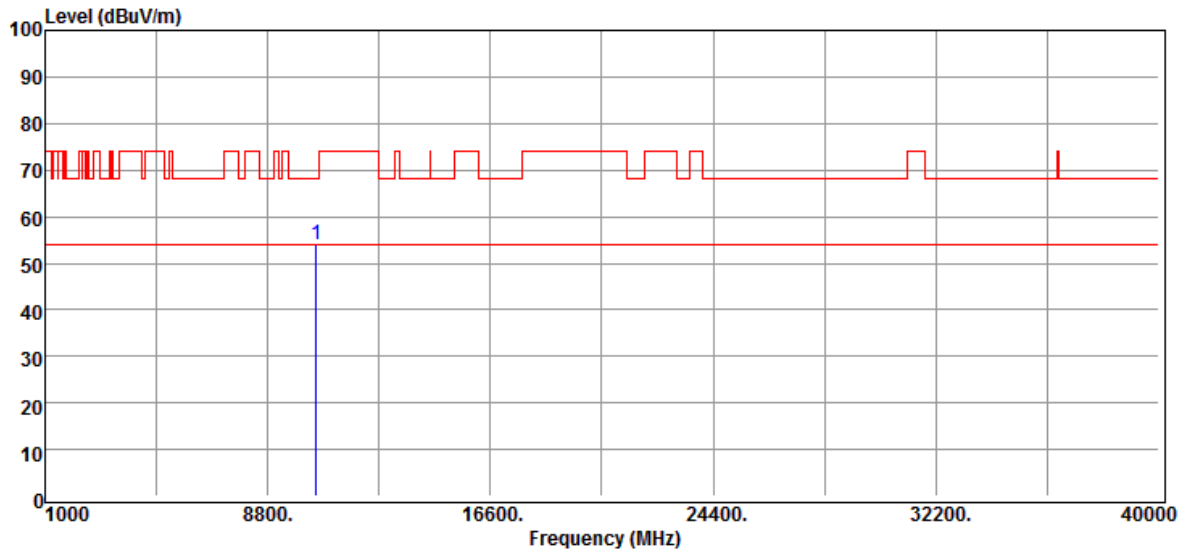
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10500.00	Peak	38.09	16.03	54.12	68.20	-14.08

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Operation Mode	:802.11ac160 / Band 1	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5250 MHz	Engineer	:Jerry



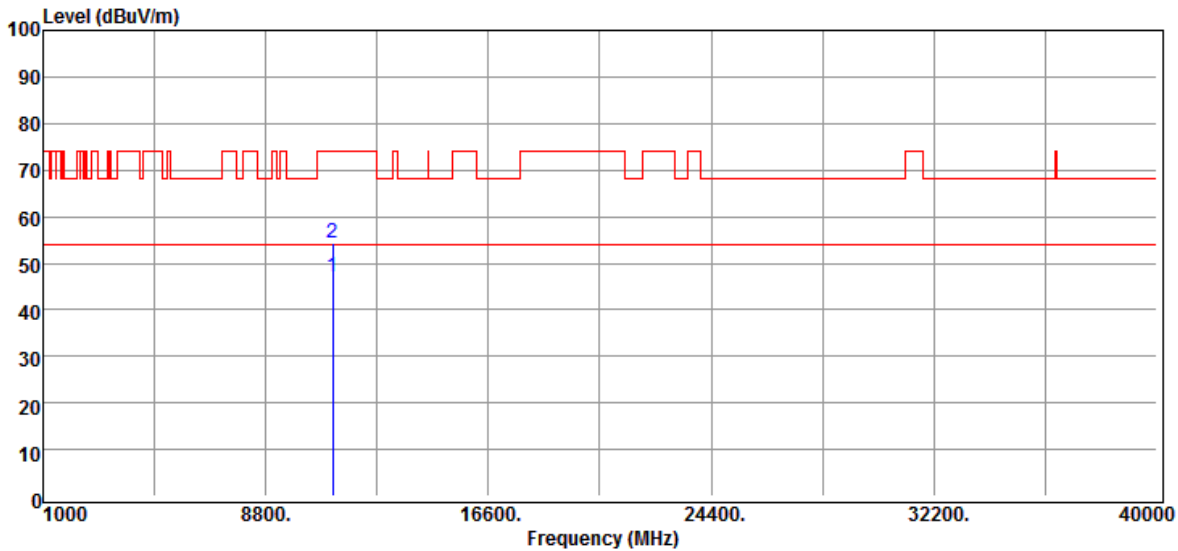
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10500.00	Peak	38.08	16.03	54.11	68.20	-14.09

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Radiated Spurious Emission Measurement Result 802.11ac VHT160, 5470~5850 MHz

Operation Mode	:802.11ac160 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5570 MHz	Engineer	:Jerry



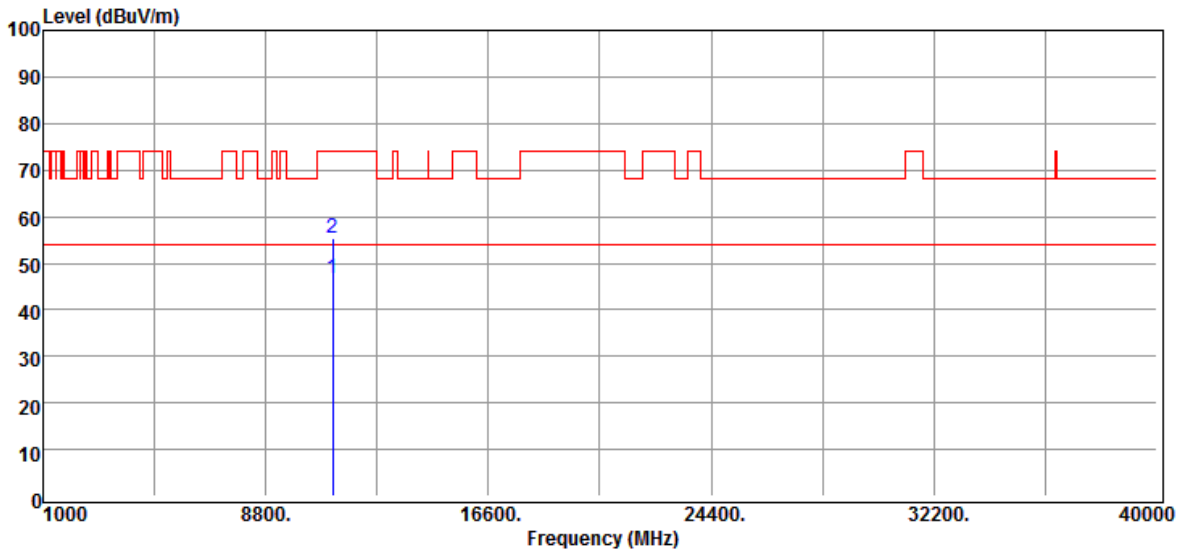
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11140.00	Average	30.58	16.56	47.14	54.00	-6.86
11140.00	Peak	37.92	16.56	54.48	74.00	-19.52

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Operation Mode	:802.11ac160 / Band 3	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:23/53
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5570 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11140.00	Average	30.17	16.56	46.73	54.00	-7.27
11140.00	Peak	38.76	16.56	55.32	74.00	-18.68

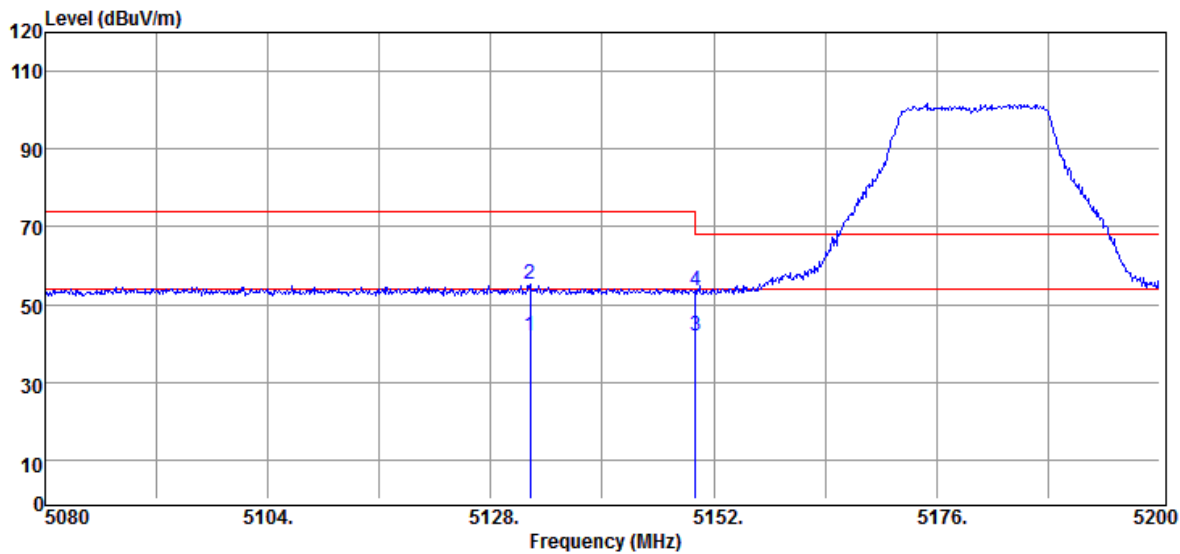
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Band edge falling to restricted band

802.11a mode

Operation Mode	:802.11a / Band 1	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Jerry



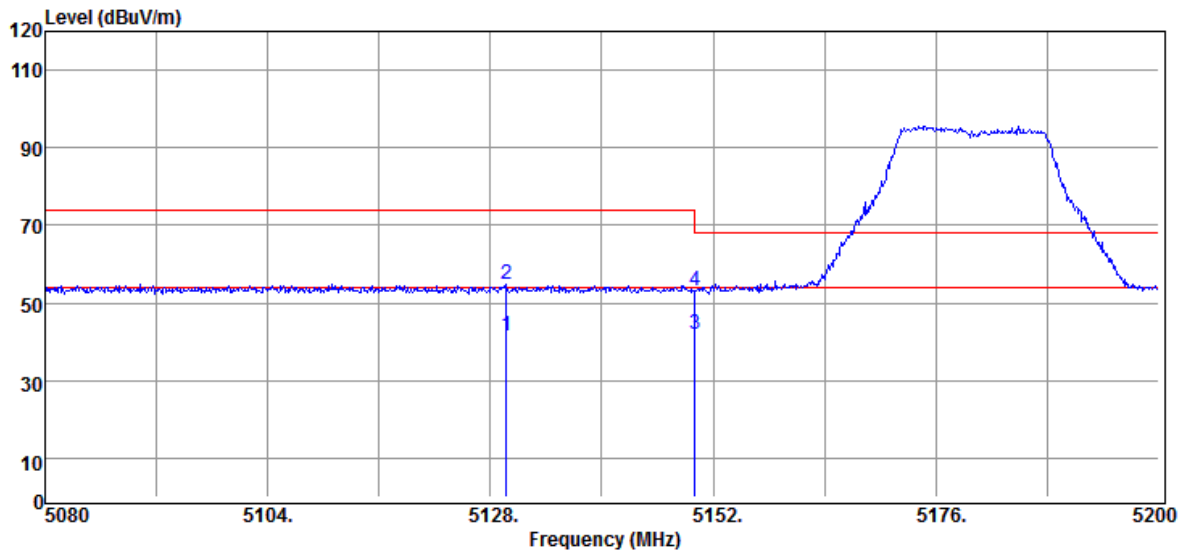
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5132.20	Average	37.19	4.63	41.82	54.00	-12.18
5132.20	Peak	50.44	4.63	55.07	74.00	-18.93
5150.00	Average	37.49	4.55	42.04	54.00	-11.96
5150.00	Peak	49.09	4.55	53.64	68.20	-14.56

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Operation Mode	:802.11a / Band 1	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Jerry



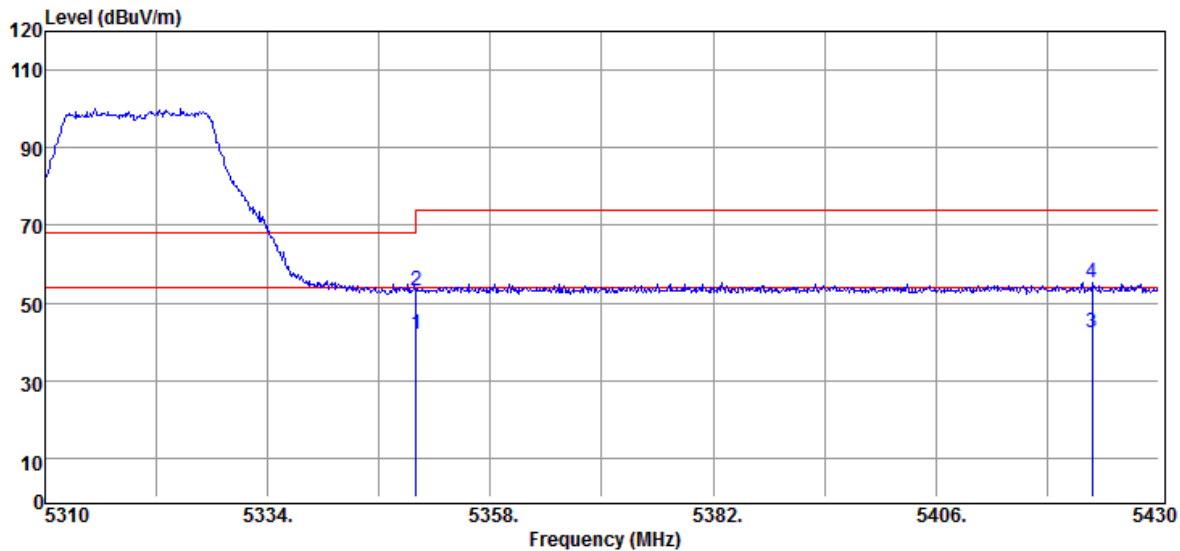
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5129.68	Average	37.02	4.65	41.67	54.00	-12.33
5129.68	Peak	50.12	4.65	54.77	74.00	-19.23
5150.00	Average	37.25	4.55	41.80	54.00	-12.20
5150.00	Peak	48.70	4.55	53.25	68.20	-14.95

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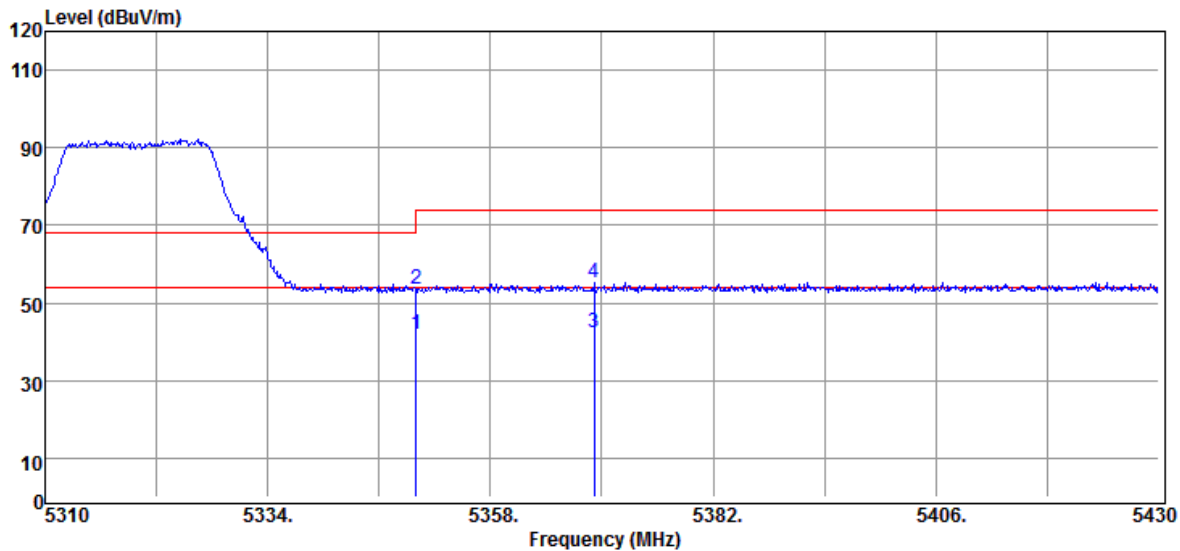
Operation Mode	:802.11a / Band 2	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	36.80	5.19	41.99	54.00	-12.01
5350.00	Peak	47.94	5.19	53.13	68.20	-15.07
5422.80	Average	36.68	5.62	42.30	54.00	-11.70
5422.80	Peak	49.45	5.62	55.07	74.00	-18.93

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Operation Mode	:802.11a / Band 2	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Jerry



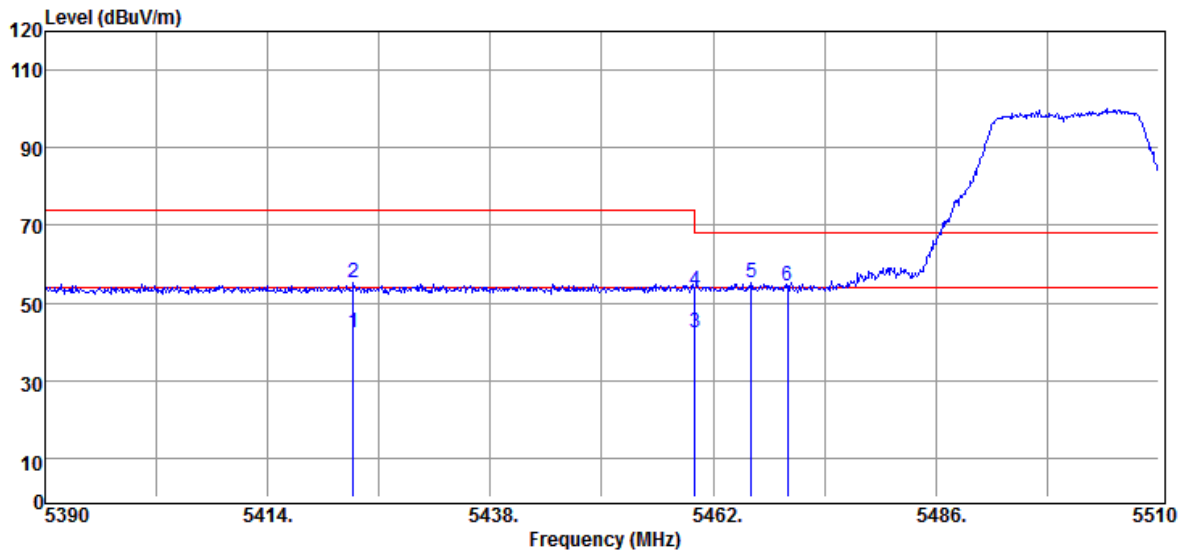
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.00	Average	36.75	5.19	41.94	54.00	-12.06
5350.00	Peak	48.37	5.19	53.56	68.20	-14.64
5369.16	Average	36.95	5.30	42.25	54.00	-11.75
5369.16	Peak	50.03	5.30	55.33	74.00	-18.67

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Operation Mode	:802.11a / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Jerry



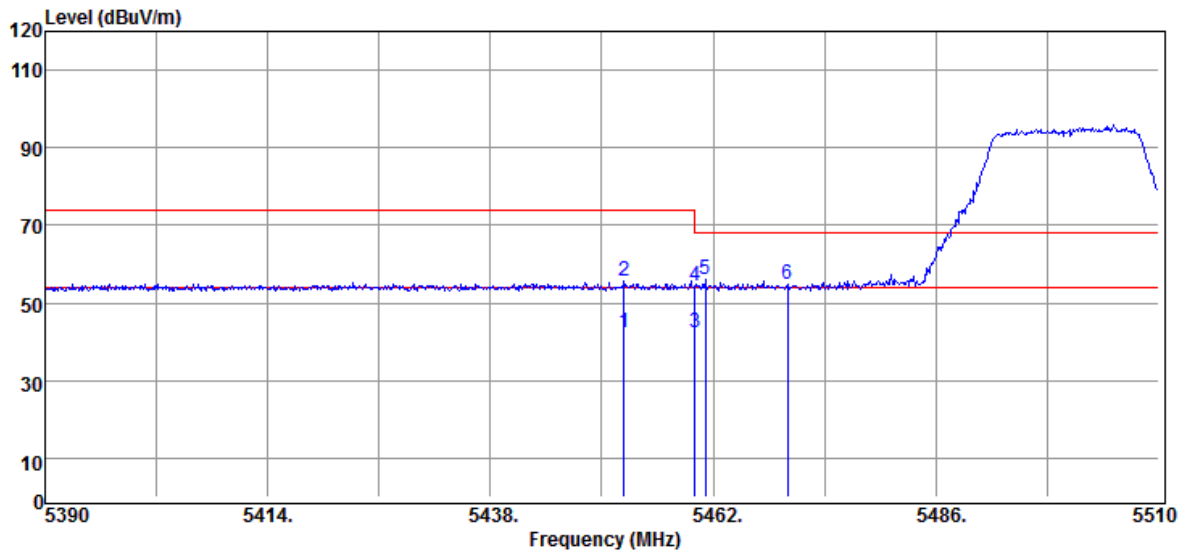
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5423.24	Average	36.65	5.62	42.27	54.00	-11.73
5423.24	Peak	49.68	5.62	55.30	74.00	-18.70
5460.00	Average	37.00	5.54	42.54	54.00	-11.46
5460.00	Peak	47.80	5.54	53.34	68.20	-14.86
5466.08	Peak	49.66	5.53	55.19	68.20	-13.01
5470.00	Peak	48.80	5.52	54.32	68.20	-13.88

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Operation Mode	:802.11a / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Jerry



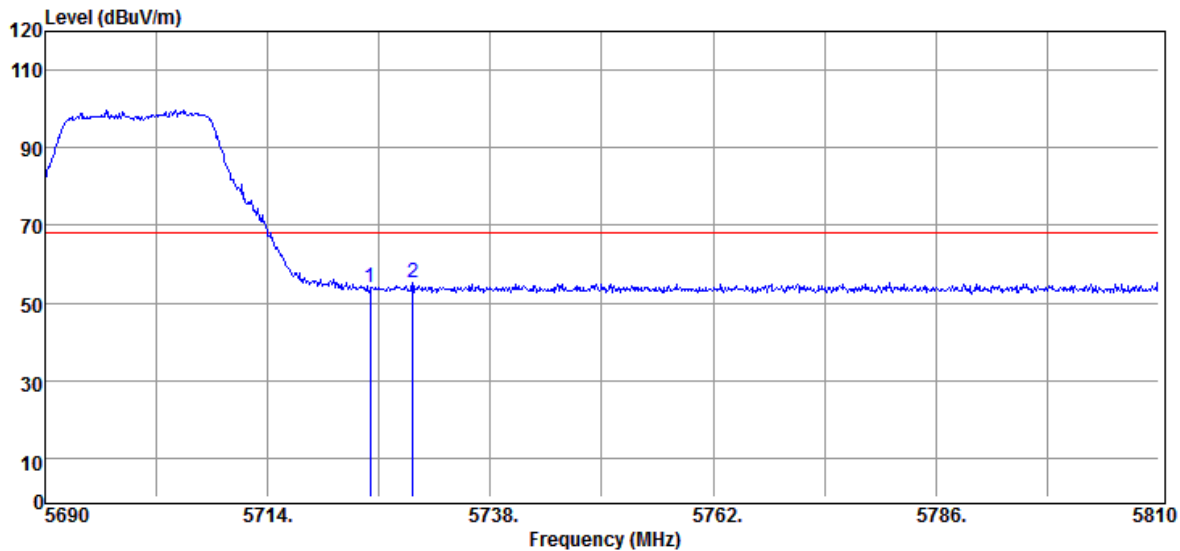
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5452.40	Average	36.80	5.55	42.35	54.00	-11.65
5452.40	Peak	50.12	5.55	55.67	74.00	-18.33
5460.00	Average	37.00	5.54	42.54	54.00	-11.46
5460.00	Peak	48.87	5.54	54.41	68.20	-13.79
5461.16	Peak	50.47	5.54	56.01	68.20	-12.19
5470.00	Peak	49.35	5.52	54.87	68.20	-13.33

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Operation Mode	:802.11a / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Jerry



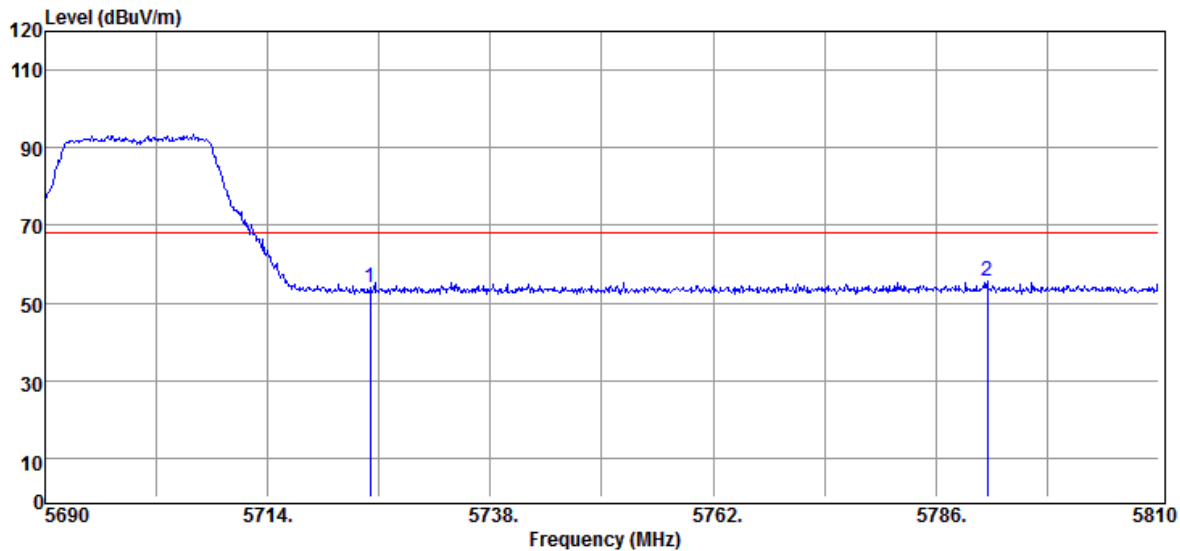
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	47.35	6.55	53.90	68.20	-14.30
5729.60	Peak	48.65	6.53	55.18	68.20	-13.02

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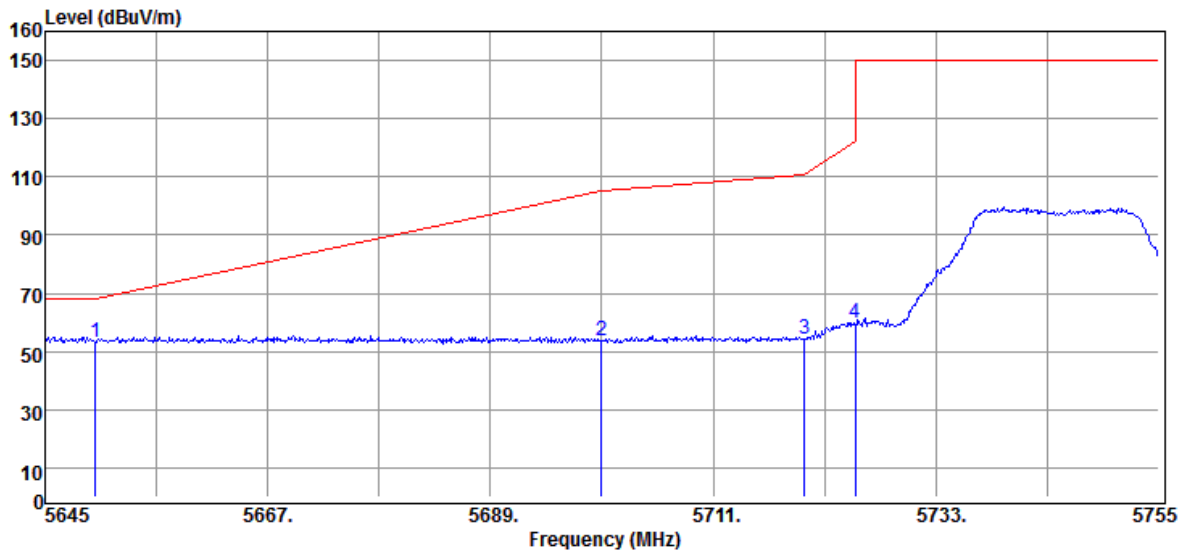
Operation Mode	:802.11a / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	47.23	6.55	53.78	68.20	-14.42
5791.52	Peak	49.28	6.27	55.55	68.20	-12.65

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Operation Mode	:802.11a / Band 4	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Jerry



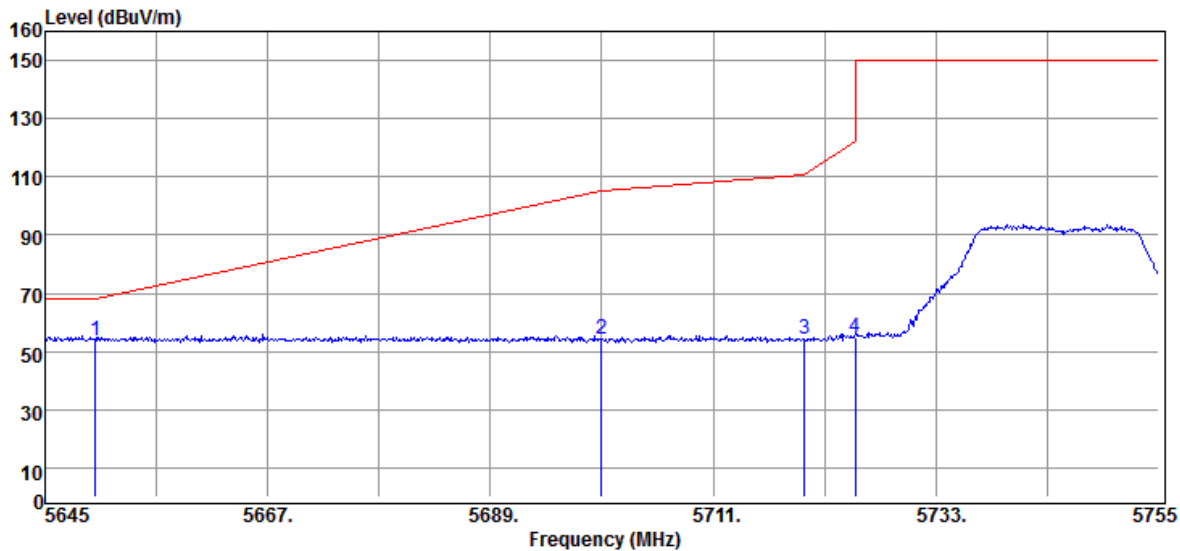
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.00	Peak	47.48	5.91	53.39	68.20	-14.81
5700.00	Peak	47.22	6.43	53.65	105.20	-51.55
5720.00	Peak	47.90	6.55	54.45	110.80	-56.35
5725.00	Peak	53.34	6.55	59.89	122.20	-62.31

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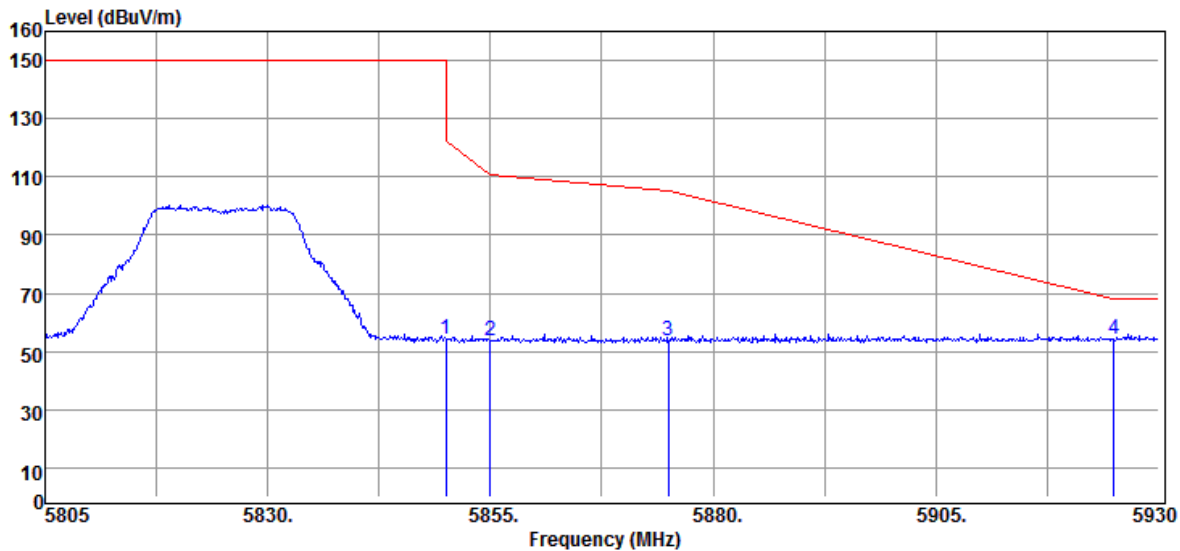
Operation Mode	:802.11a / Band 4	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.00	Peak	47.95	5.91	53.86	68.20	-14.34
5700.00	Peak	47.70	6.43	54.13	105.20	-51.07
5720.00	Peak	47.80	6.55	54.35	110.80	-56.45
5725.00	Peak	48.45	6.55	55.00	122.20	-67.20

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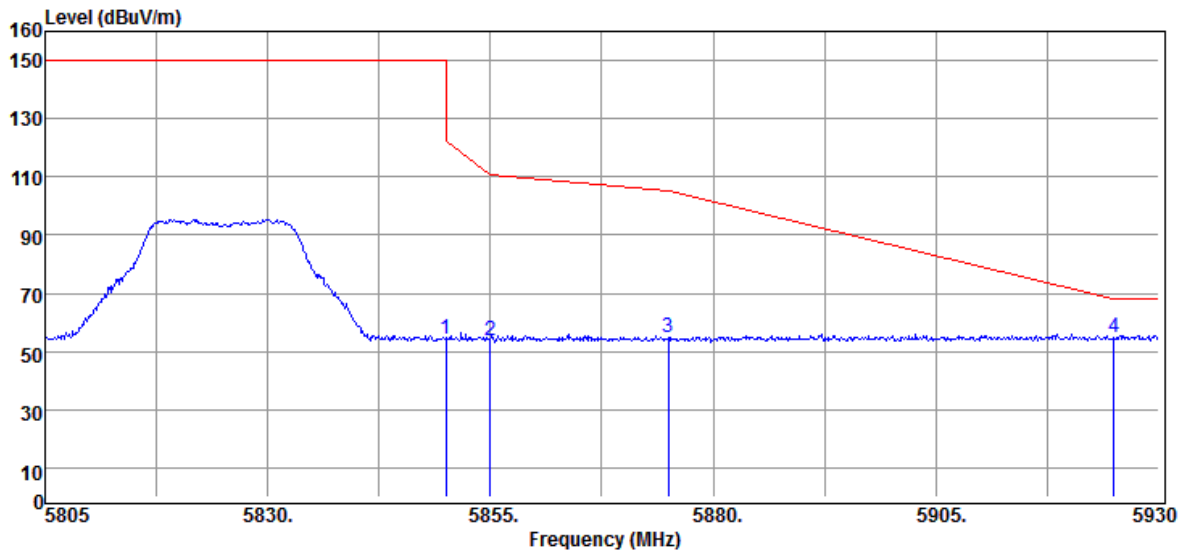
Operation Mode	:802.11a / Band 4	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	48.09	6.41	54.50	122.20	-67.70
5855.00	Peak	47.52	6.43	53.95	110.80	-56.85
5875.00	Peak	47.09	6.49	53.58	105.20	-51.62
5925.00	Peak	48.00	6.44	54.44	68.20	-13.76

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Operation Mode	:802.11a / Band 4	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Jerry

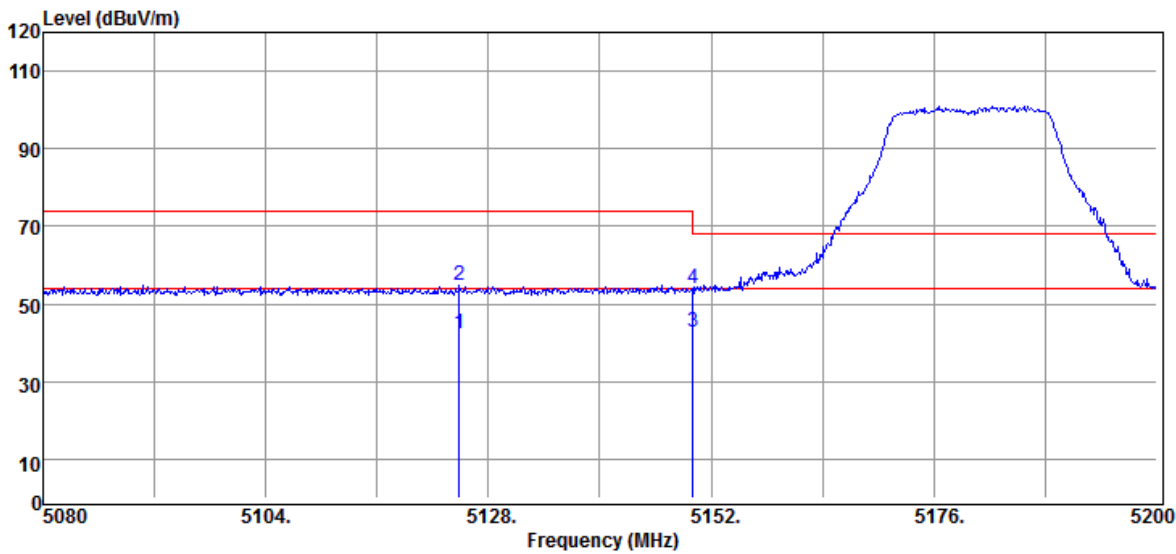


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	47.80	6.41	54.21	122.20	-67.99
5855.00	Peak	47.37	6.43	53.80	110.80	-57.00
5875.00	Peak	48.34	6.49	54.83	105.20	-50.37
5925.00	Peak	48.52	6.44	54.96	68.20	-13.24

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802.11n20 mode

Operation Mode	:802.11n20 / Band 1	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Jerry



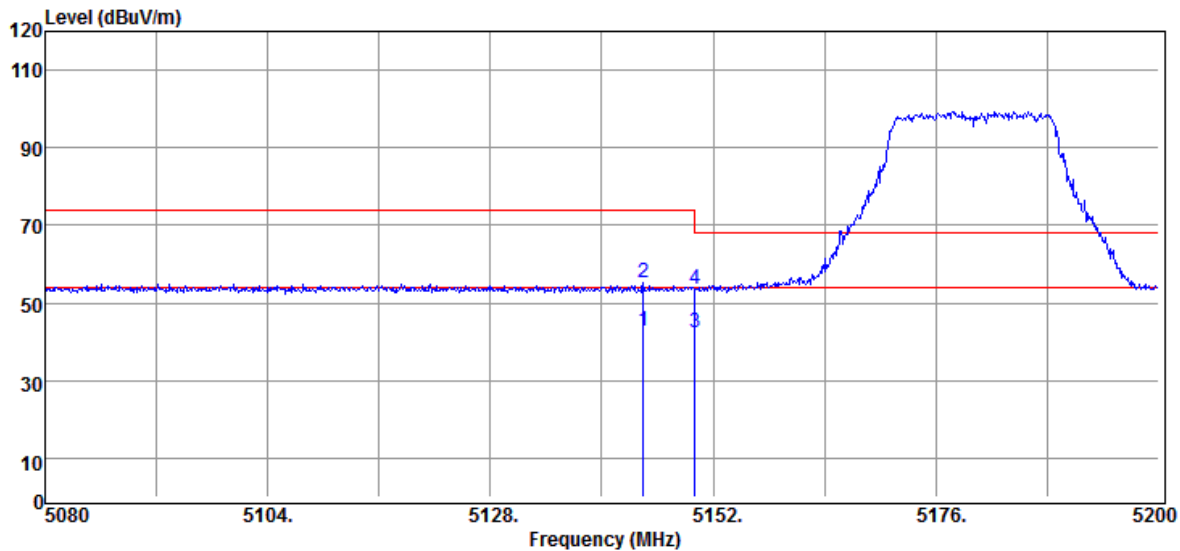
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5124.88	Average	37.80	4.70	42.50	54.00	-11.50
5124.88	Peak	50.31	4.70	55.01	74.00	-18.99
5150.00	Average	38.40	4.55	42.95	54.00	-11.05
5150.00	Peak	49.47	4.55	54.02	68.20	-14.18

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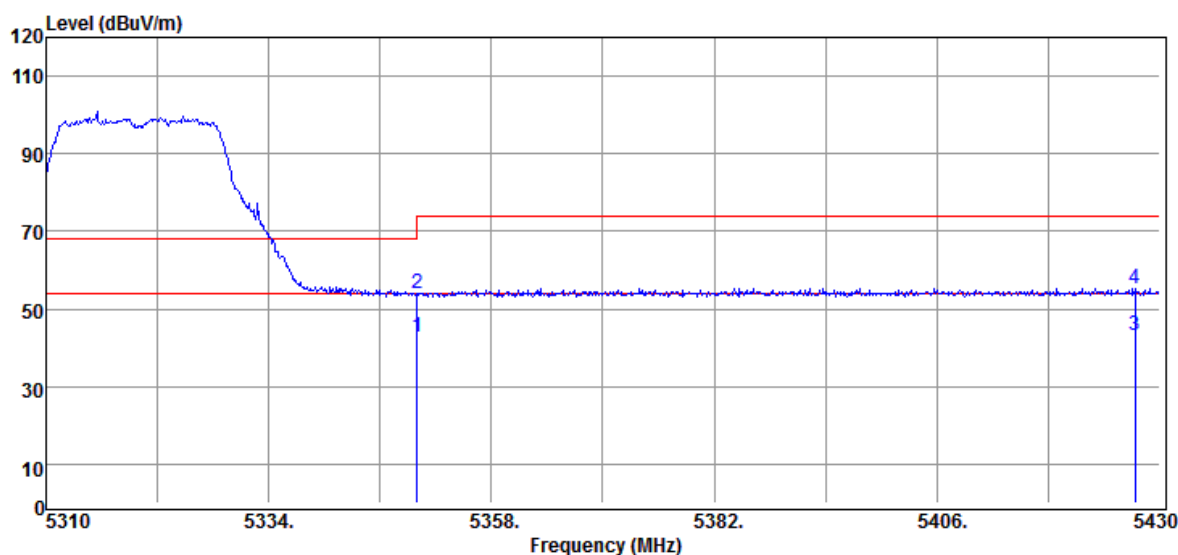
Operation Mode	:802.11n20 / Band 1	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5144.44	Average	38.08	4.55	42.63	54.00	-11.37
5144.44	Peak	50.62	4.55	55.17	74.00	-18.83
5150.00	Average	37.80	4.55	42.35	54.00	-11.65
5150.00	Peak	49.11	4.55	53.66	68.20	-14.54

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Operation Mode	:802.11n20 / Band 2	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Jerry



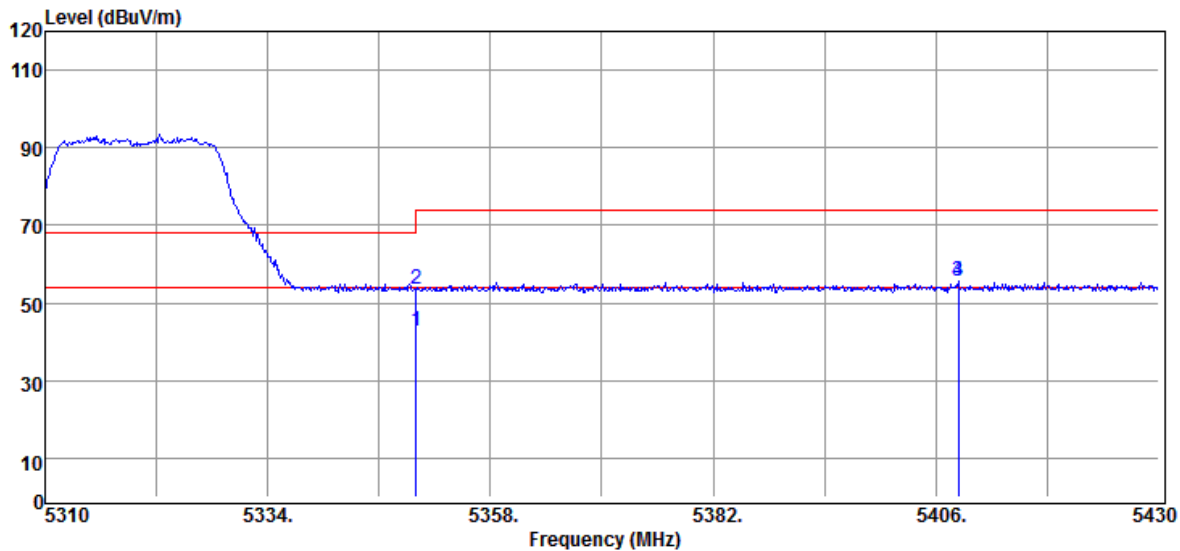
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.49	5.19	42.68	54.00	-11.32
5350.00	Peak	48.75	5.19	53.94	68.20	-14.26
5427.36	Average	37.44	5.61	43.05	54.00	-10.95
5427.36	Peak	49.73	5.61	55.34	74.00	-18.66

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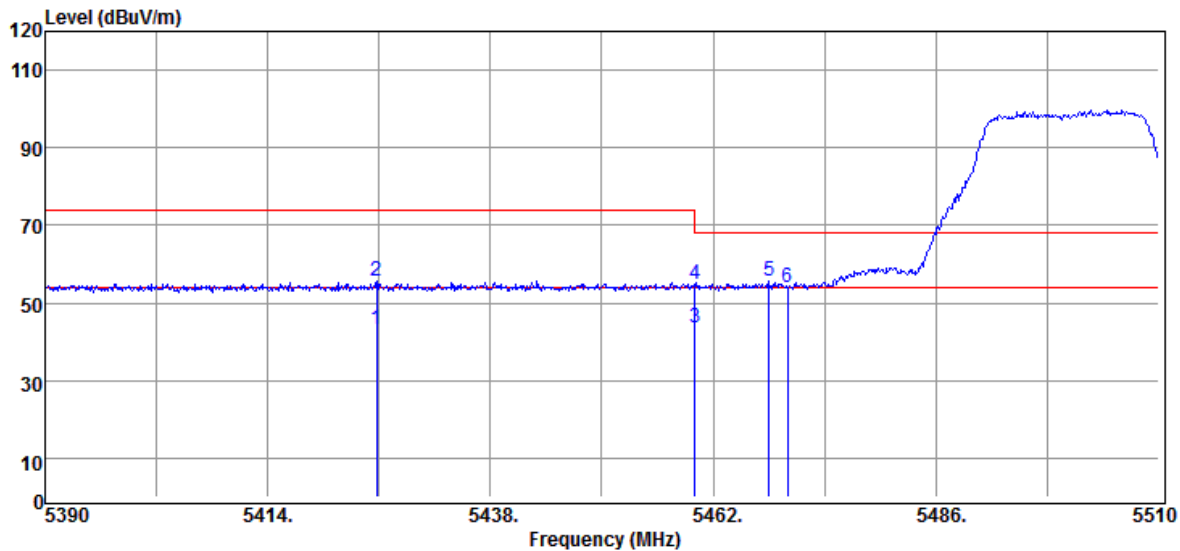
Operation Mode	:802.11n20 / Band 2	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.47	5.19	42.66	54.00	-11.34
5350.00	Peak	48.57	5.19	53.76	68.20	-14.44
5408.40	Peak	50.01	5.64	55.65	74.00	-18.35
5408.40	Peak	50.01	5.64	55.65	74.00	-18.35

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Operation Mode	:802.11n20 / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Jerry



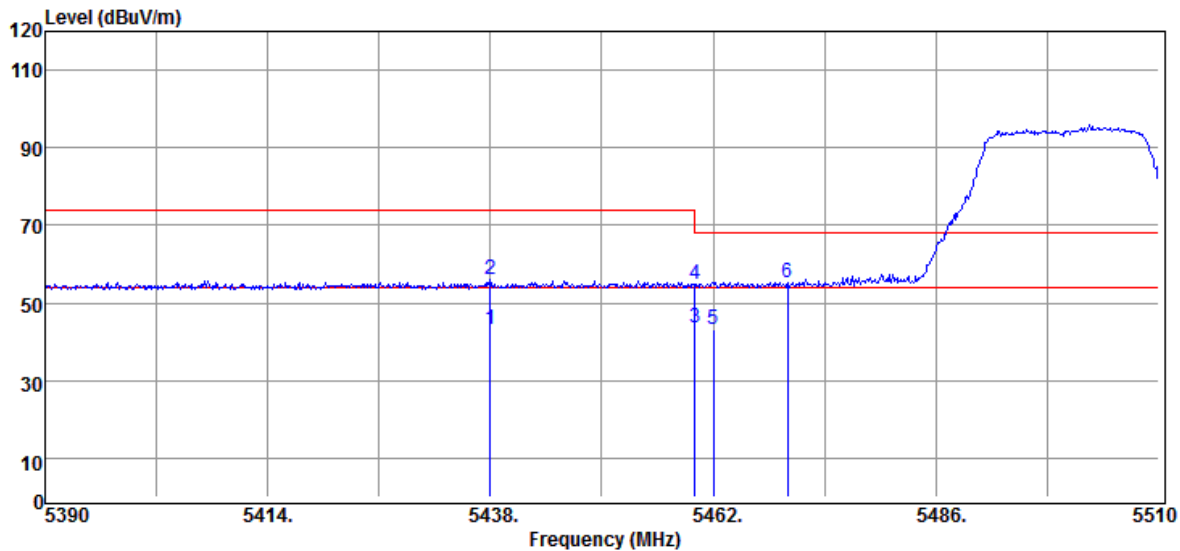
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5425.76	Average	37.48	5.61	43.09	54.00	-10.91
5425.76	Peak	49.91	5.61	55.52	74.00	-18.48
5460.00	Average	38.09	5.54	43.63	54.00	-10.37
5460.00	Peak	49.27	5.54	54.81	68.20	-13.39
5468.00	Peak	49.92	5.52	55.44	68.20	-12.76
5470.00	Peak	48.61	5.52	54.13	68.20	-14.07

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Operation Mode	:802.11n20 / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Jerry



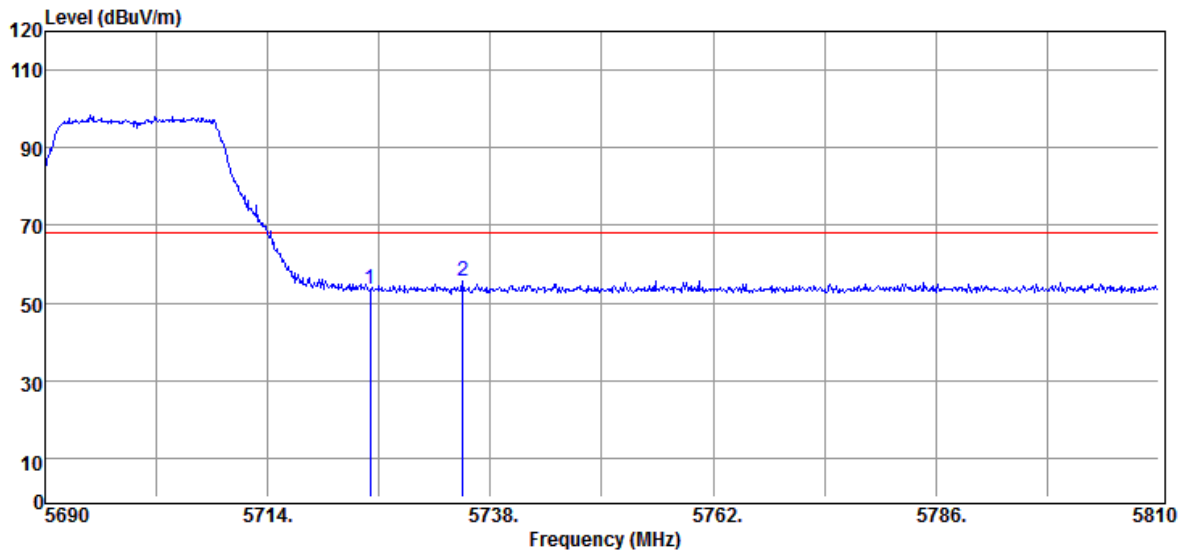
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5438.00	Average	37.61	5.61	43.22	54.00	-10.78
5438.00	Peak	50.35	5.61	55.96	74.00	-18.04
5460.00	Average	37.94	5.54	43.48	54.00	-10.52
5460.00	Peak	49.21	5.54	54.75	68.20	-13.45
5462.00	Average	37.73	5.54	43.27	54.00	-10.73
5470.00	Peak	49.60	5.52	55.12	68.20	-13.08

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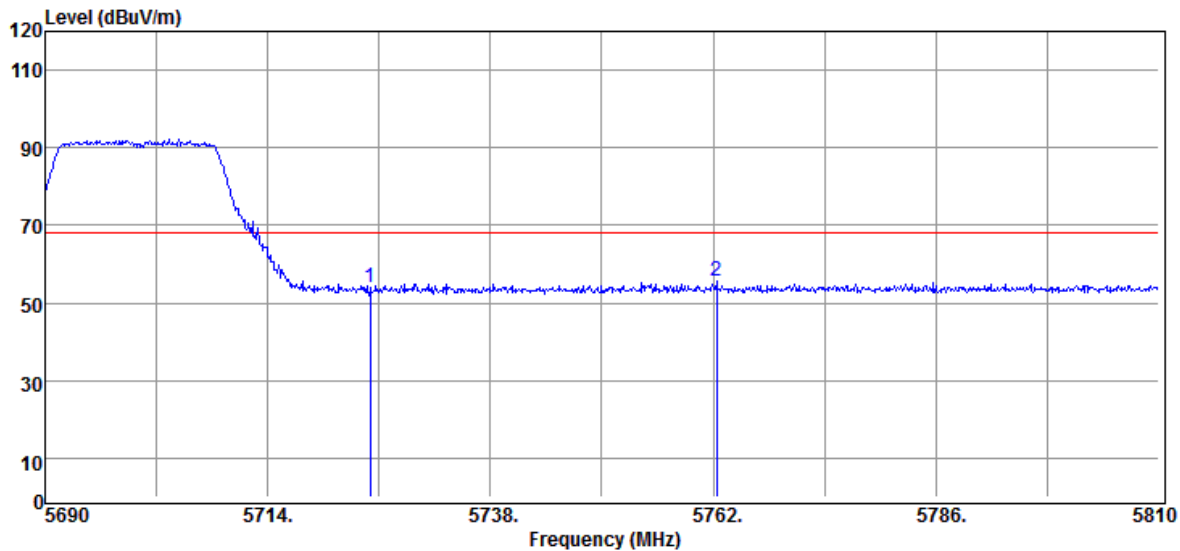
Operation Mode	:802.11n20 / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	47.10	6.55	53.65	68.20	-14.55
5735.00	Peak	49.20	6.53	55.73	68.20	-12.47

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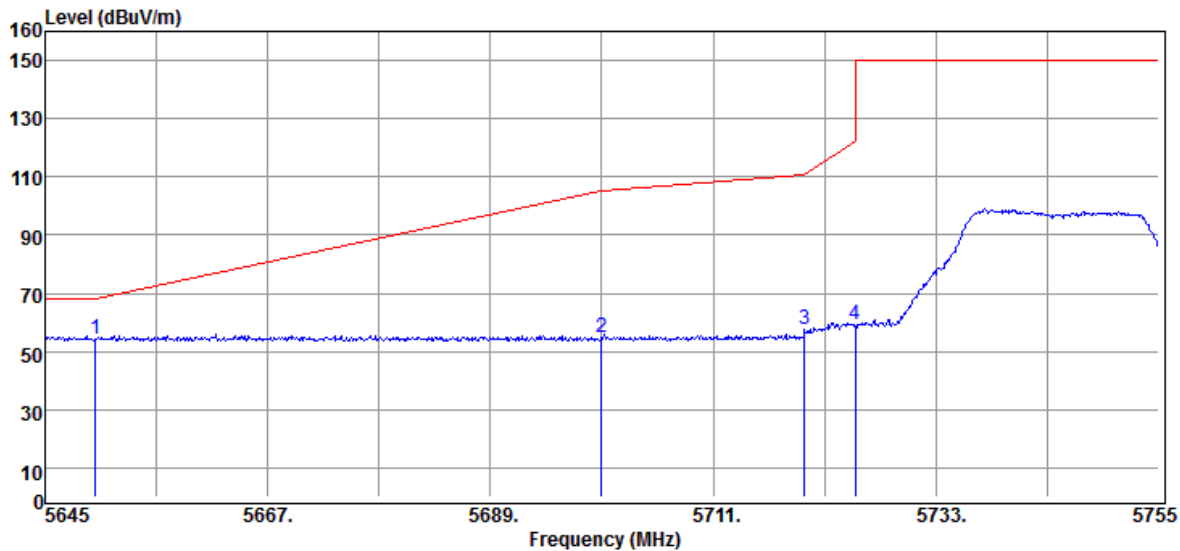
Operation Mode	:802.11n20 / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	47.26	6.55	53.81	68.20	-14.39
5762.36	Peak	49.25	6.40	55.65	68.20	-12.55

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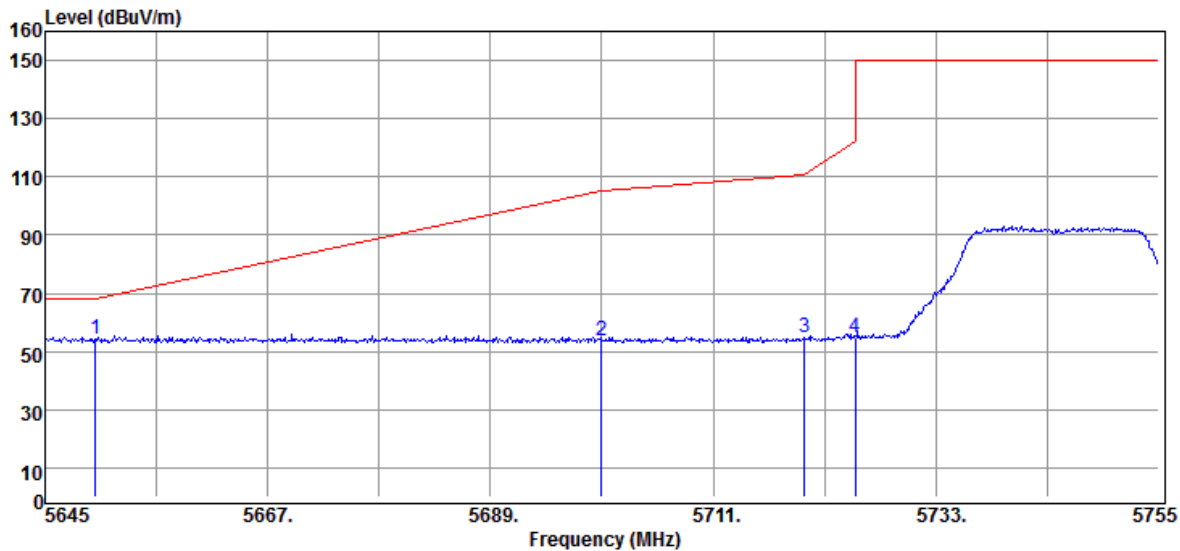
Operation Mode	:802.11n20 / Band 4	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.00	Peak	48.09	5.91	54.00	68.20	-14.20
5700.00	Peak	48.40	6.43	54.83	105.20	-50.37
5720.00	Peak	51.21	6.55	57.76	110.80	-53.04
5725.00	Peak	52.95	6.55	59.50	122.20	-62.70

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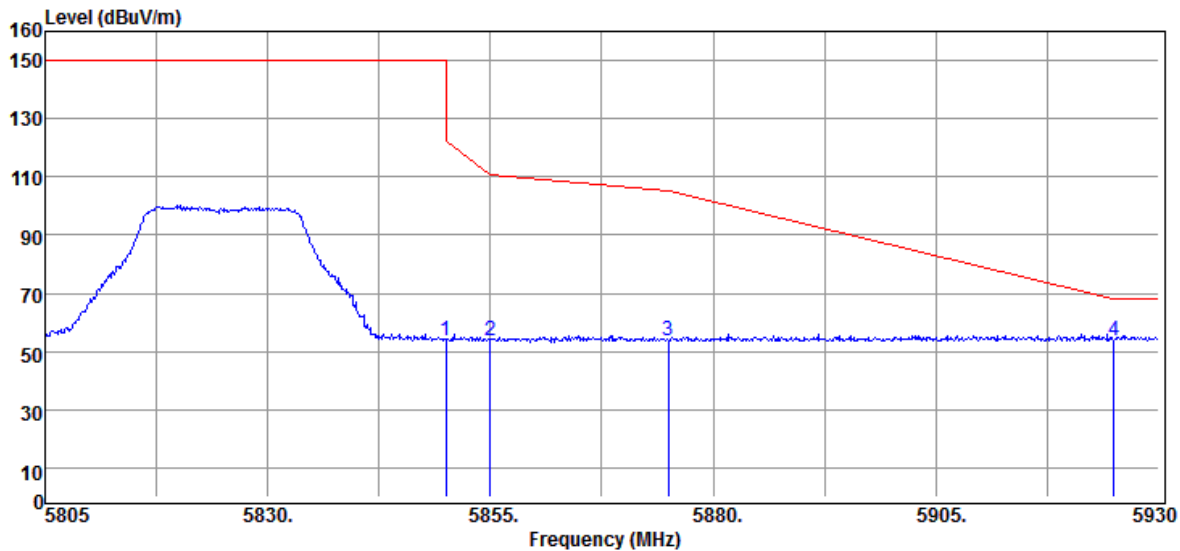
Operation Mode	:802.11n20 / Band 4	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	48.09	5.91	54.00	68.20	-14.20
5700.00	Peak	47.20	6.43	53.63	105.20	-51.57
5720.00	Peak	48.32	6.55	54.87	110.80	-55.93
5725.00	Peak	48.22	6.55	54.77	122.20	-67.43

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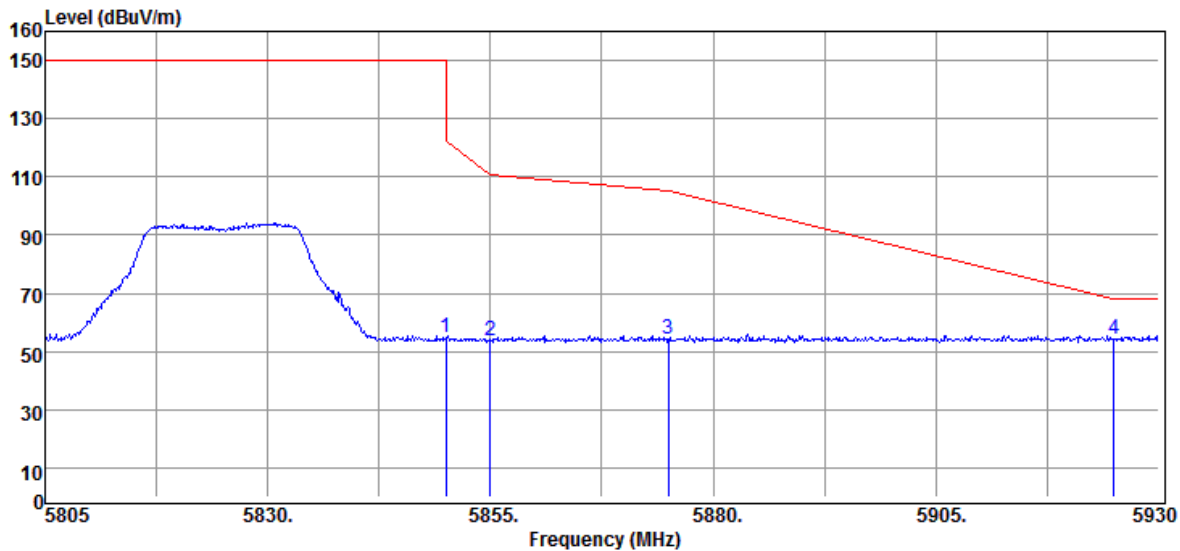
Operation Mode	:802.11n20 / Band 4	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	47.41	6.41	53.82	122.20	-68.38
5855.00	Peak	47.51	6.43	53.94	110.80	-56.86
5875.00	Peak	47.24	6.49	53.73	105.20	-51.47
5925.00	Peak	47.51	6.44	53.95	68.20	-14.25

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Operation Mode	:802.11n20 / Band 4	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Jerry

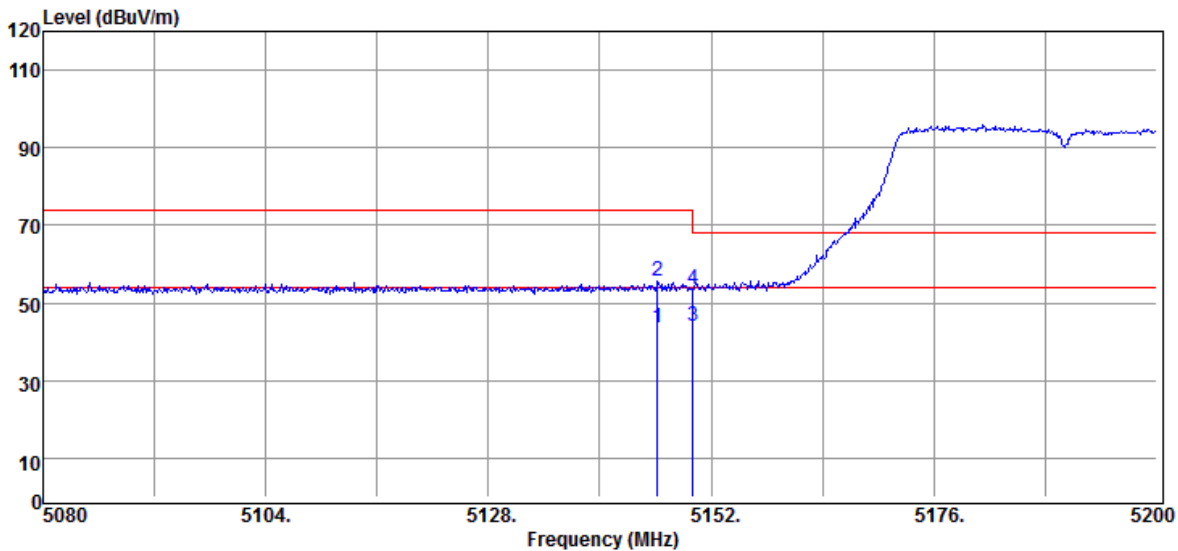


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	48.45	6.41	54.86	122.20	-67.34
5855.00	Peak	47.34	6.43	53.77	110.80	-57.03
5875.00	Peak	47.57	6.49	54.06	105.20	-51.14
5925.00	Peak	47.82	6.44	54.26	68.20	-13.94

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802.11n40 mode

Operation Mode	:802.11n40 / Band 1	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5190 MHz	Engineer	:Jerry



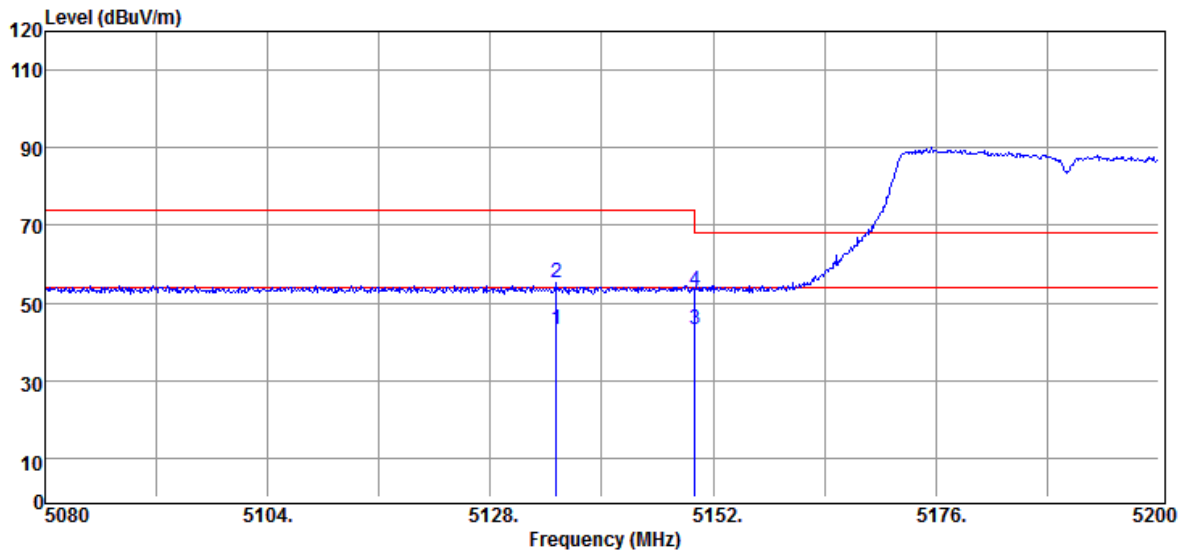
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.24	Average	38.99	4.55	43.54	54.00	-10.46
5146.24	Peak	51.04	4.55	55.59	74.00	-18.41
5150.00	Average	39.34	4.55	43.89	54.00	-10.11
5150.00	Peak	49.18	4.55	53.73	68.20	-14.47

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Operation Mode	:802.11n40 / Band 1	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5190 MHz	Engineer	:Jerry



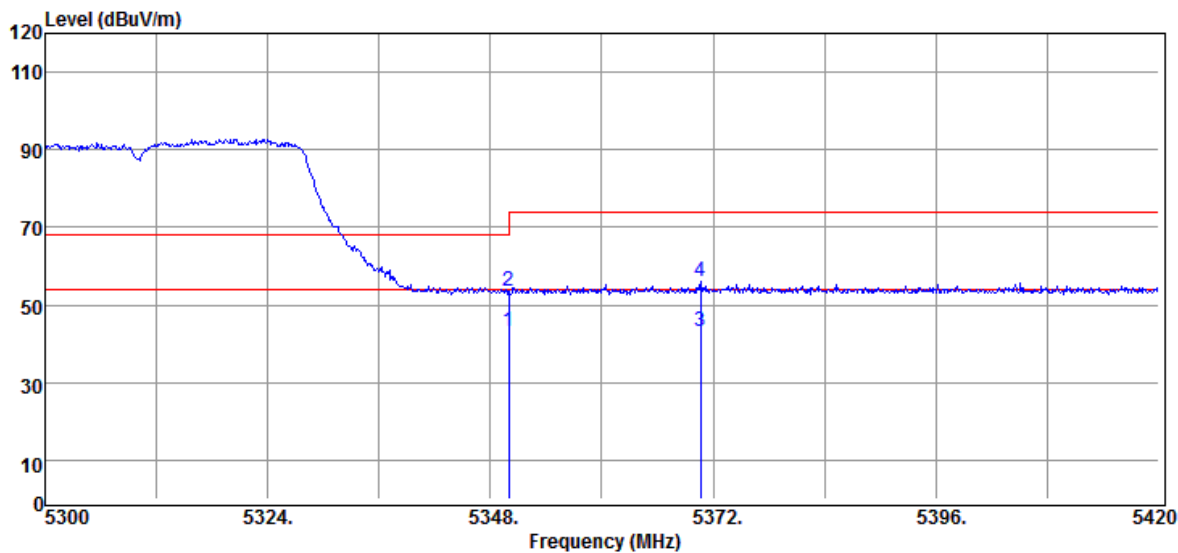
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5135.08	Average	38.72	4.61	43.33	54.00	-10.67
5135.08	Peak	50.41	4.61	55.02	74.00	-18.98
5150.00	Average	38.66	4.55	43.21	54.00	-10.79
5150.00	Peak	48.46	4.55	53.01	68.20	-15.19

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Operation Mode	:802.11n40 / Band 2	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5310 MHz	Engineer	:Jerry



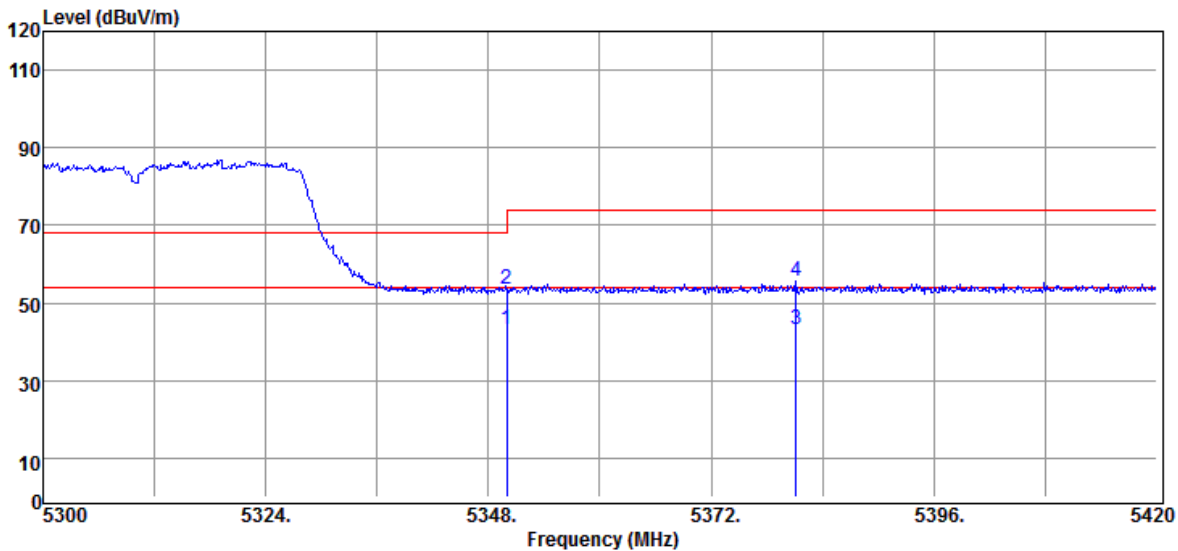
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.00	Average	37.99	5.19	43.18	54.00	-10.82
5350.00	Peak	48.42	5.19	53.61	68.20	-14.59
5370.68	Average	37.81	5.31	43.12	54.00	-10.88
5370.68	Peak	50.90	5.31	56.21	74.00	-17.79

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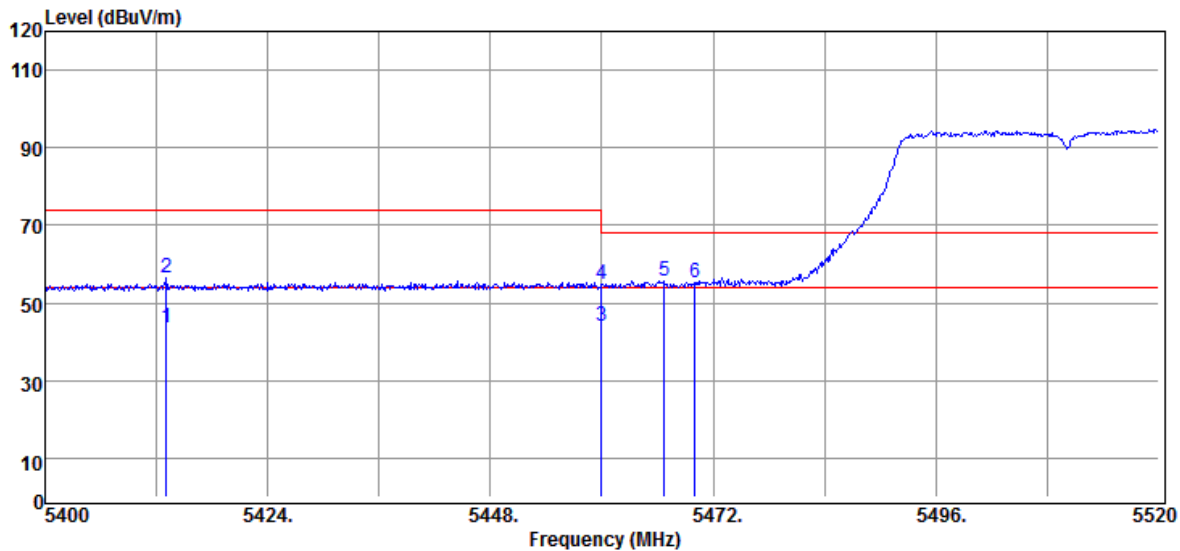
Operation Mode	:802.11n40 / Band 2	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5310 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	38.13	5.19	43.32	54.00	-10.68
5350.00	Peak	48.45	5.19	53.64	68.20	-14.56
5381.12	Average	37.96	5.42	43.38	54.00	-10.62
5381.12	Peak	50.10	5.42	55.52	74.00	-18.48

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Operation Mode	:802.11n40 / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5510 MHz	Engineer	:Jerry



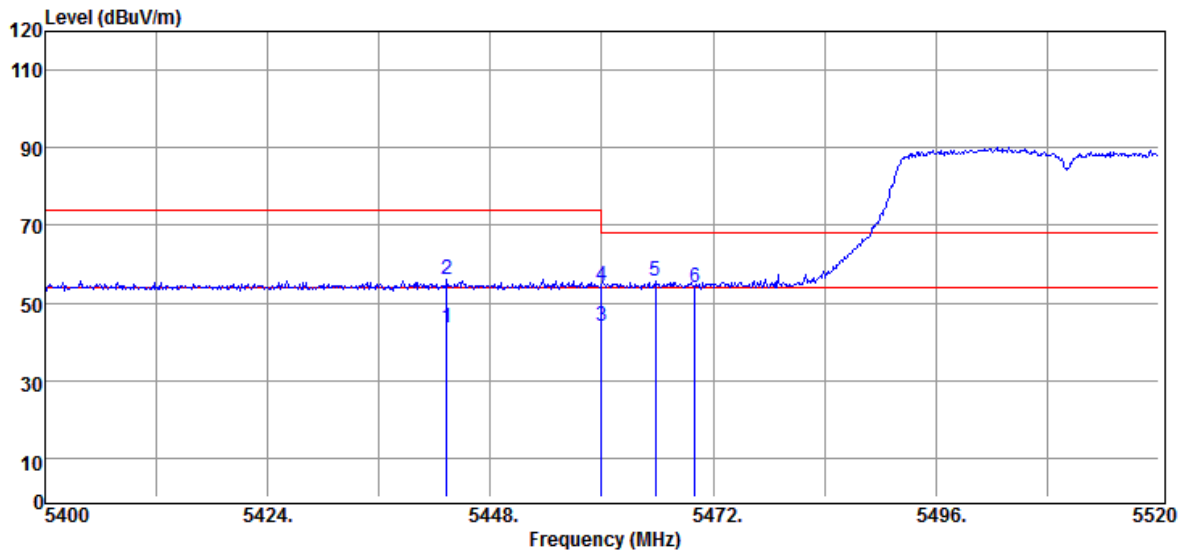
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5413.08	Average	37.90	5.64	43.54	54.00	-10.46
5413.08	Peak	50.99	5.64	56.63	74.00	-17.37
5460.00	Average	38.48	5.54	44.02	54.00	-9.98
5460.00	Peak	49.47	5.54	55.01	68.20	-13.19
5466.72	Peak	50.19	5.53	55.72	68.20	-12.48
5470.00	Peak	49.86	5.52	55.38	68.20	-12.82

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Operation Mode	:802.11n40 / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5510 MHz	Engineer	:Jerry



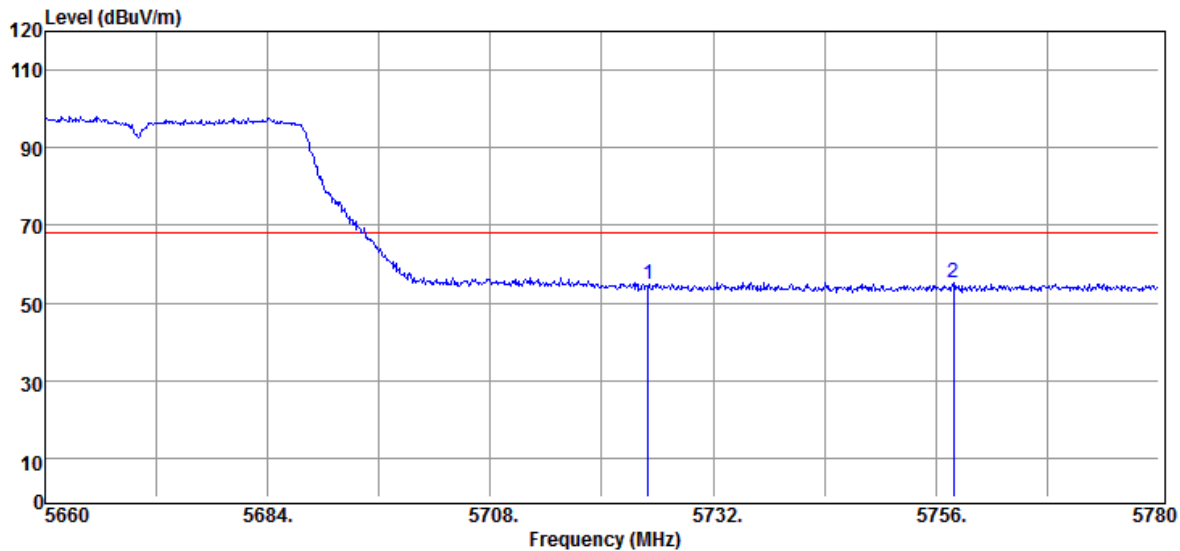
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5443.32	Average	38.12	5.59	43.71	54.00	-10.29
5443.32	Peak	50.53	5.59	56.12	74.00	-17.88
5460.00	Average	38.51	5.54	44.05	54.00	-9.95
5460.00	Peak	48.77	5.54	54.31	68.20	-13.89
5465.76	Peak	50.22	5.52	55.74	68.20	-12.46
5470.00	Peak	48.56	5.52	54.08	68.20	-14.12

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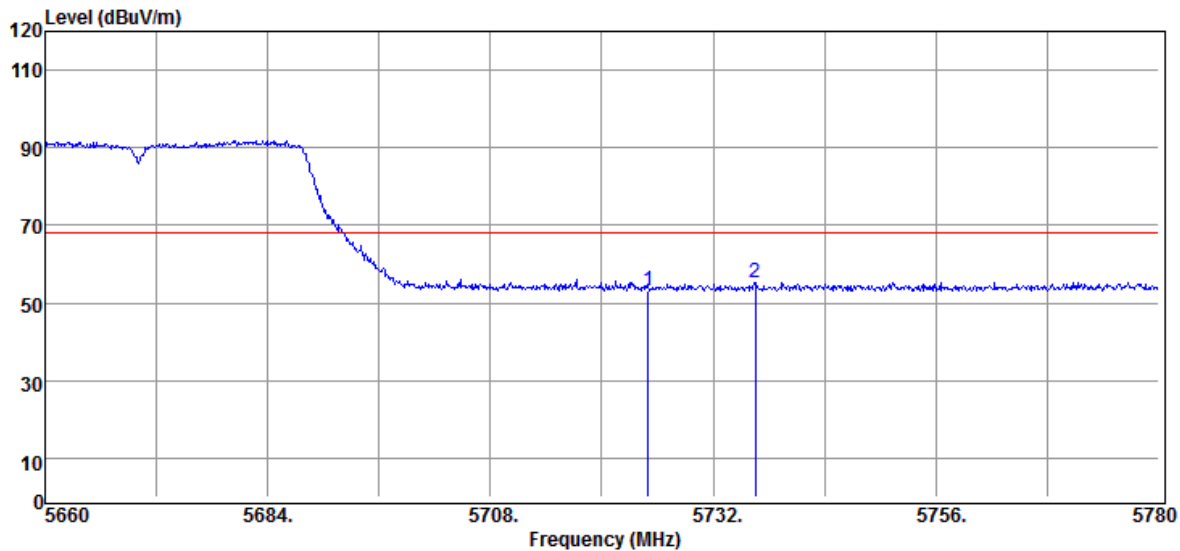
Operation Mode	:802.11n40 / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5670 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	48.14	6.55	54.69	68.20	-13.51
5757.92	Peak	48.92	6.43	55.35	68.20	-12.85

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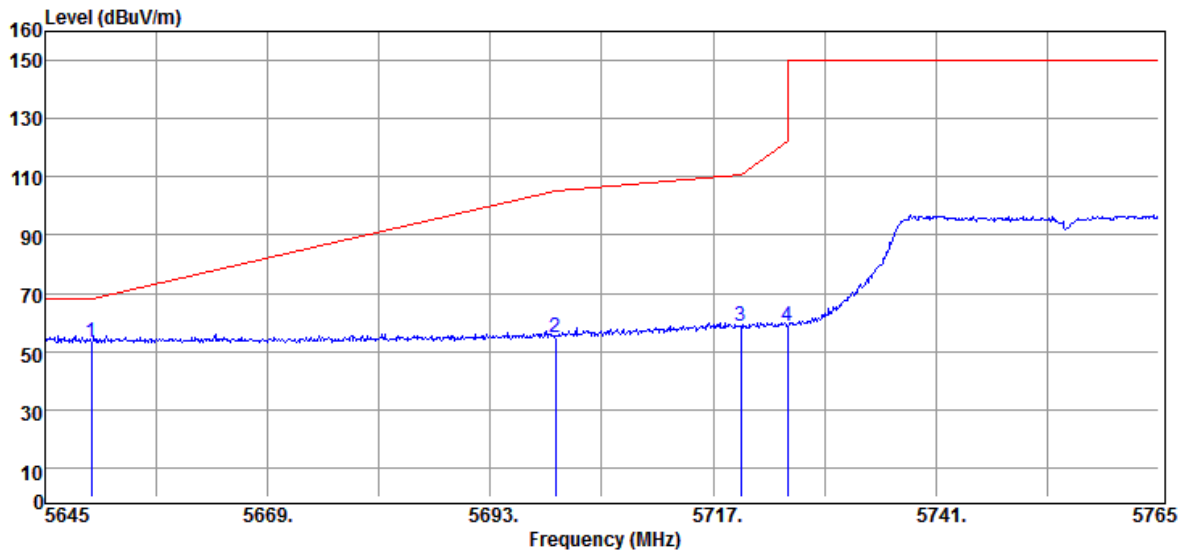
Operation Mode	:802.11n40 / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5670 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	46.69	6.55	53.24	68.20	-14.96
5736.56	Peak	48.90	6.52	55.42	68.20	-12.78

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Operation Mode	:802.11n40 / Band 4	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5755 MHz	Engineer	:Jerry

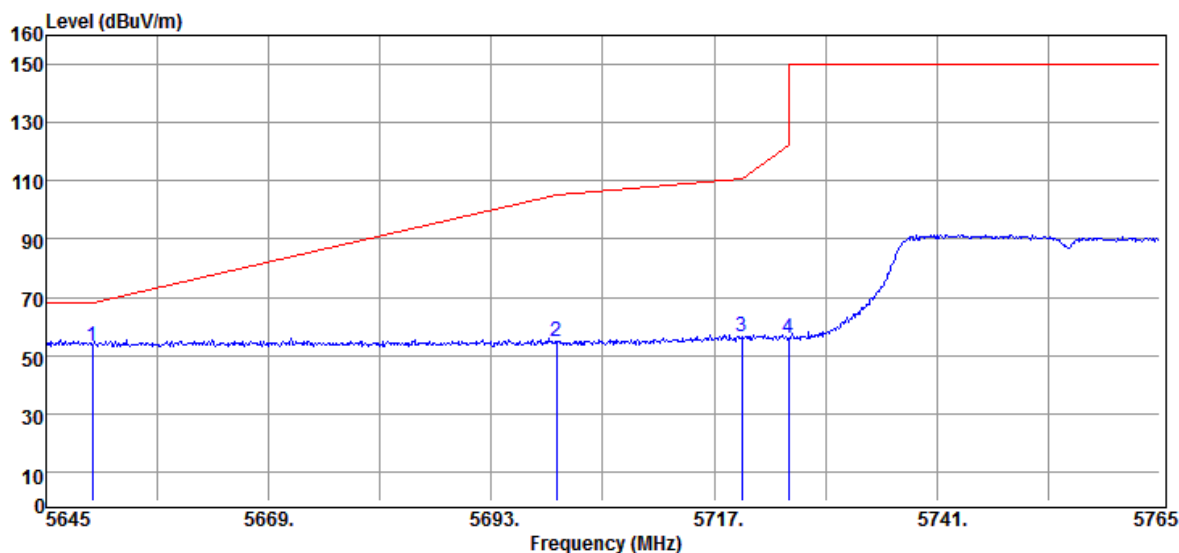


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.00	Peak	47.47	5.91	53.38	68.20	-14.82
5700.00	Peak	48.54	6.43	54.97	105.20	-50.23
5720.00	Peak	51.97	6.55	58.52	110.80	-52.28
5725.00	Peak	52.40	6.55	58.95	122.20	-63.25

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Operation Mode :802.11n40 / Band 4
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5755 MHz

Test Date :2019-03-13
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Jerry



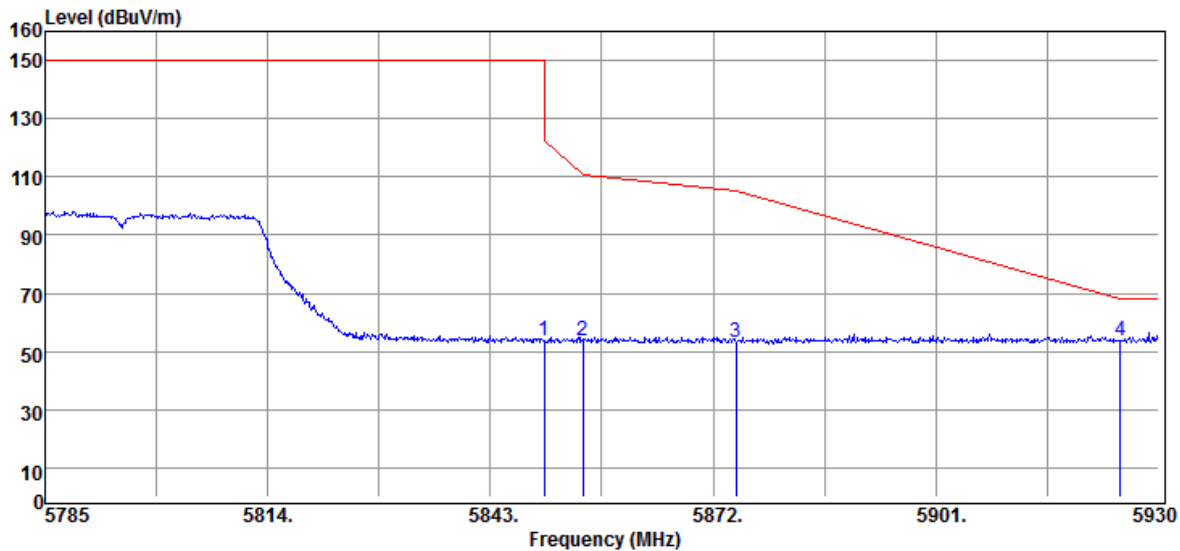
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.00	Peak	47.47	5.91	53.38	68.20	-14.82
5700.00	Peak	48.26	6.43	54.69	105.20	-50.51
5720.00	Peak	49.70	6.55	56.25	110.80	-54.55
5725.00	Peak	49.32	6.55	55.87	122.20	-66.33

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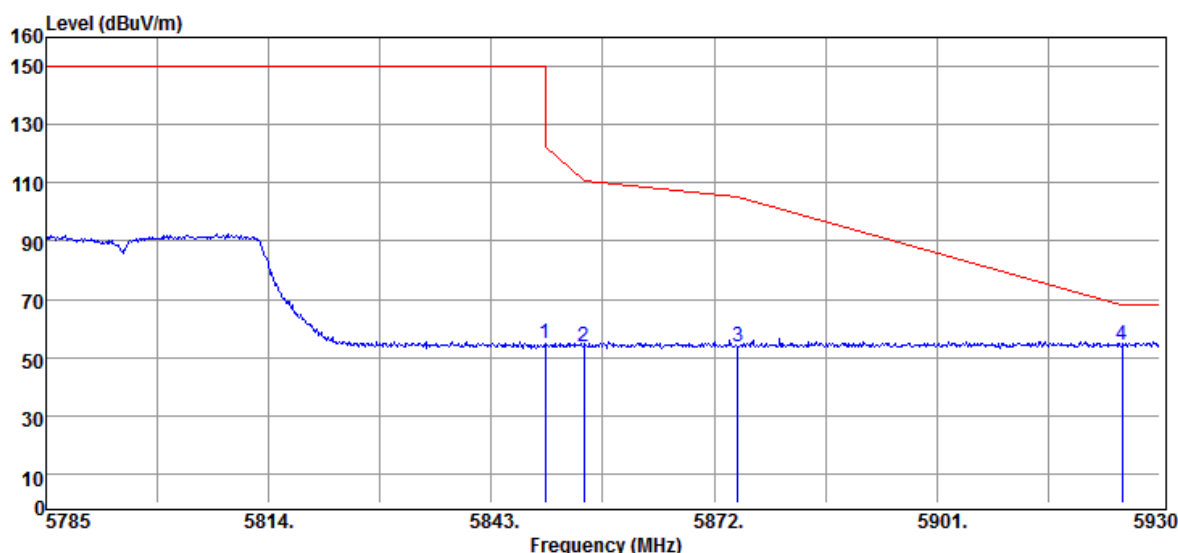
Operation Mode	:802.11n40 / Band 4	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5795 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	47.28	6.41	53.69	122.20	-68.51
5855.00	Peak	47.53	6.43	53.96	110.80	-56.84
5875.00	Peak	46.60	6.49	53.09	105.20	-52.11
5925.00	Peak	47.40	6.44	53.84	68.20	-14.36

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Operation Mode	:802.11n40 / Band 4	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5795 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5849.96	Peak	48.22	6.41	54.63	150.00	-95.37
5855.04	Peak	47.31	6.43	53.74	110.79	-57.05
5875.05	Peak	47.26	6.49	53.75	105.17	-51.42
5925.07	Peak	47.78	6.44	54.22	68.20	-13.98

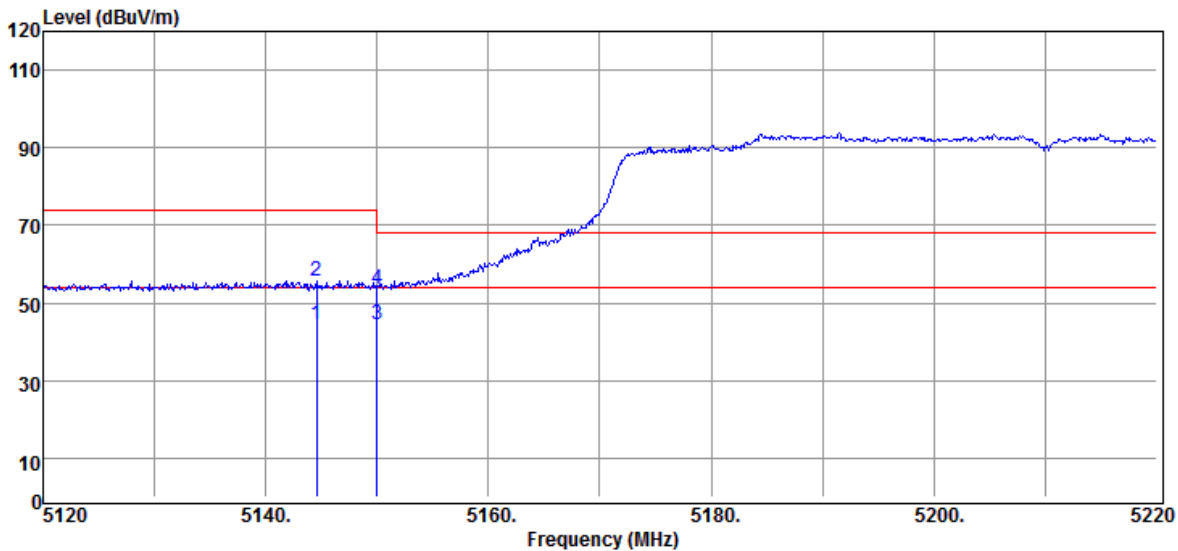
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802.11ac80 mode

Operation Mode	:802.11ac80 / Band 1	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Jerry



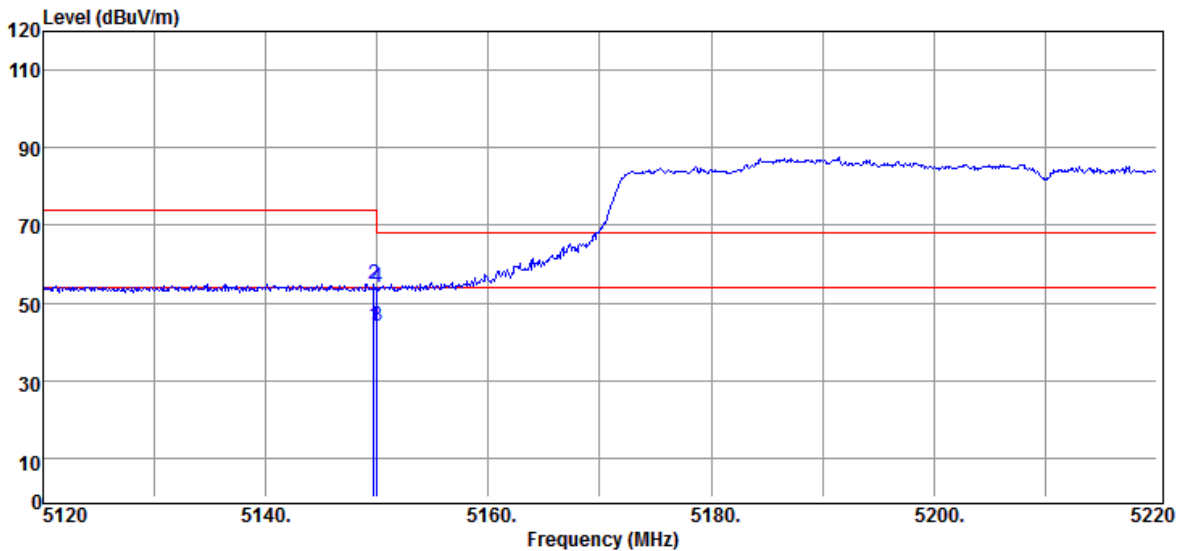
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5144.60	Average	39.88	4.55	44.43	54.00	-9.57
5144.60	Peak	51.14	4.55	55.69	74.00	-18.31
5150.00	Average	39.95	4.55	44.50	54.00	-9.50
5150.00	Peak	49.08	4.55	53.63	68.20	-14.57

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Operation Mode	:802.11ac80 / Band 1	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5210 MHz	Engineer	:Jerry



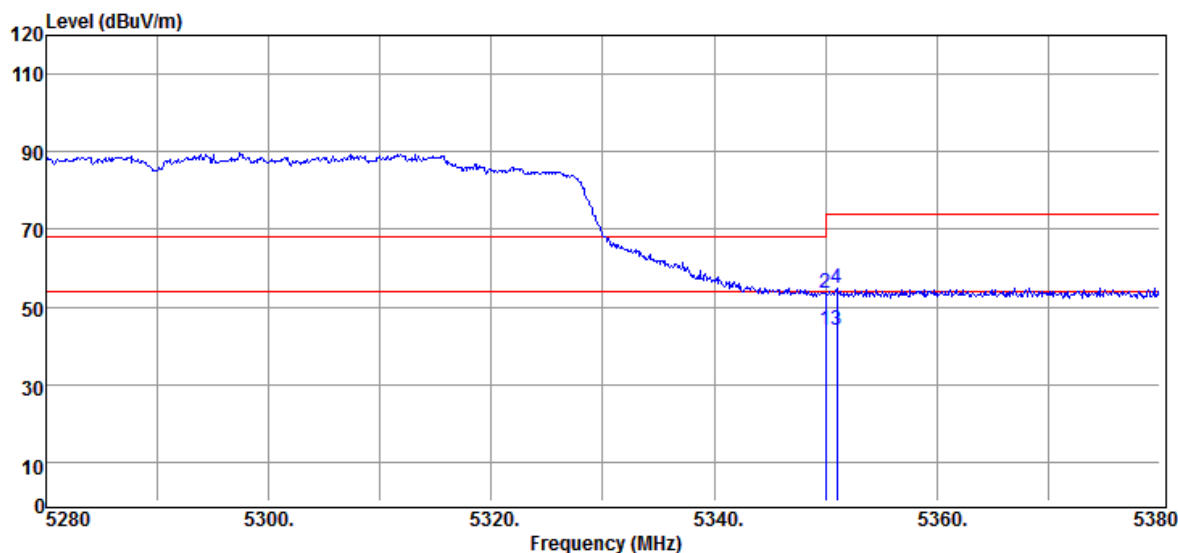
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.70	Average	39.31	4.55	43.86	54.00	-10.14
5149.70	Peak	50.41	4.55	54.96	74.00	-19.04
5150.00	Average	39.37	4.55	43.92	54.00	-10.08
5150.00	Peak	49.26	4.55	53.81	68.20	-14.39

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Operation Mode	:802.11ac80 / Band 2	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Jerry



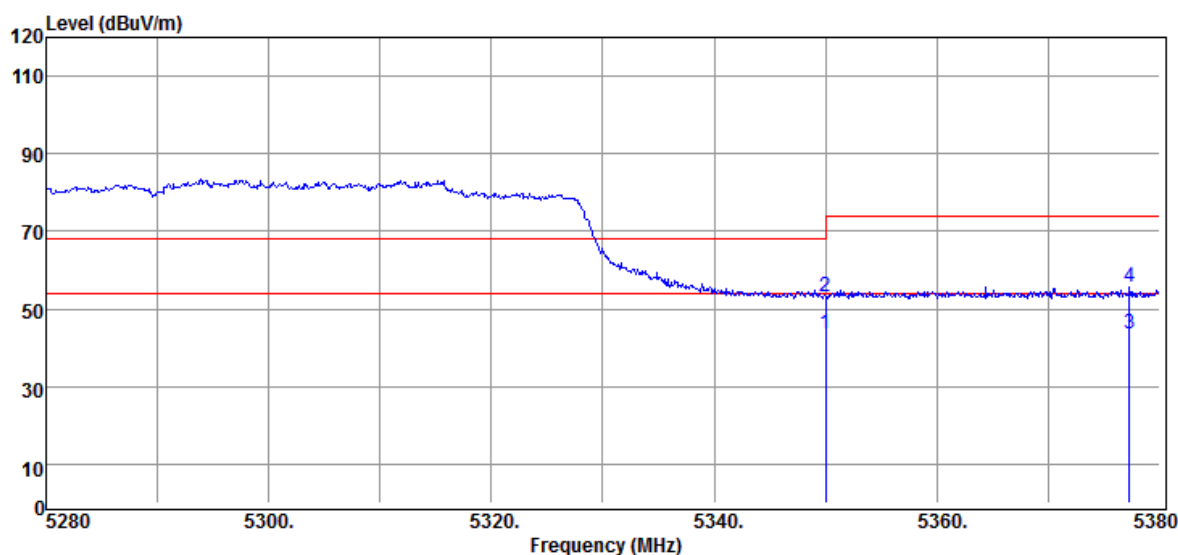
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	38.85	5.19	44.04	54.00	-9.96
5350.00	Peak	48.52	5.19	53.71	68.20	-14.49
5351.00	Average	38.71	5.20	43.91	54.00	-10.09
5351.00	Peak	49.74	5.20	54.94	74.00	-19.06

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Operation Mode	:802.11ac80 / Band 2	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Jerry



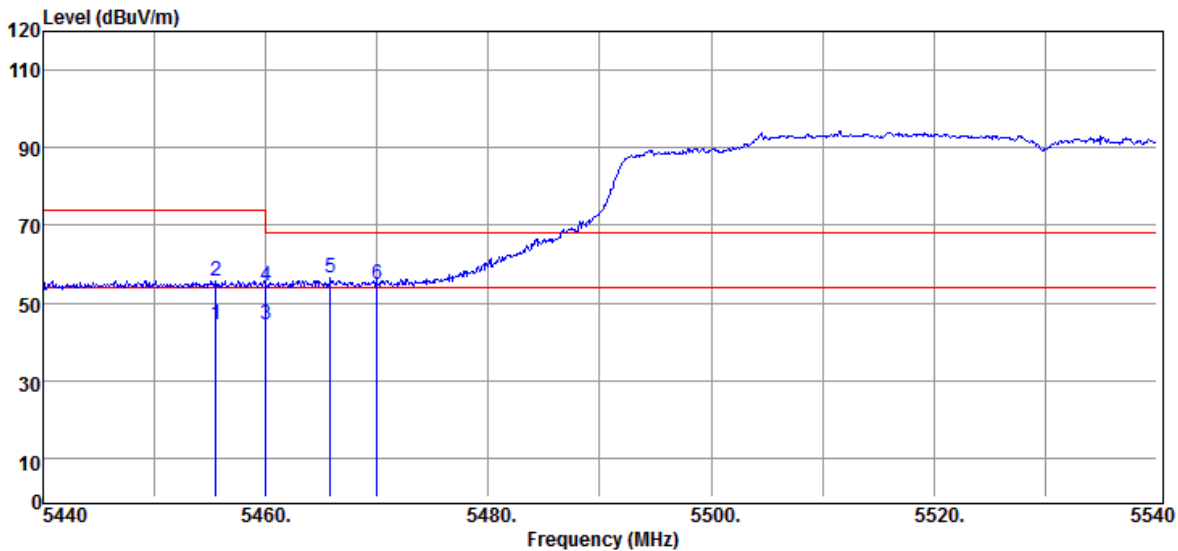
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	38.53	5.19	43.72	54.00	-10.28
5350.00	Peak	47.93	5.19	53.12	68.20	-15.08
5377.30	Average	38.40	5.38	43.78	54.00	-10.22
5377.30	Peak	50.37	5.38	55.75	74.00	-18.25

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Operation Mode	:802.11ac80 / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5530 MHz	Engineer	:Jerry



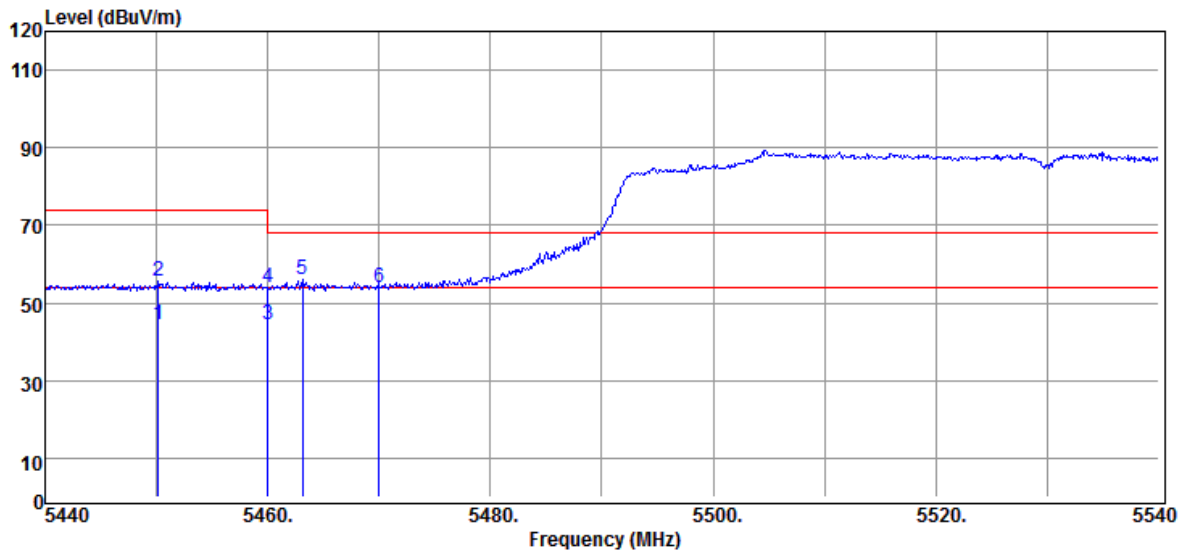
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5455.50	Average	38.88	5.54	44.42	54.00	-9.58
5455.50	Peak	50.30	5.54	55.84	74.00	-18.16
5460.00	Average	39.04	5.54	44.58	54.00	-9.42
5460.00	Peak	48.67	5.54	54.21	68.20	-13.99
5465.80	Peak	50.89	5.52	56.41	68.20	-11.79
5470.00	Peak	49.14	5.52	54.66	68.20	-13.54

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Operation Mode	:802.11ac80 / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5530 MHz	Engineer	:Jerry



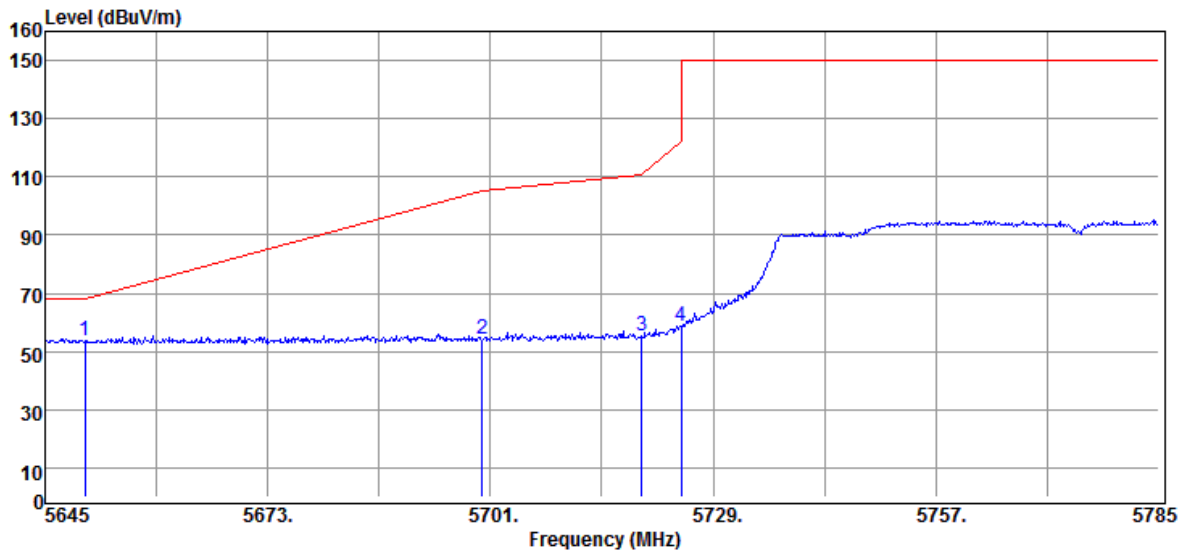
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5450.20	Average	38.71	5.55	44.26	54.00	-9.74
5450.20	Peak	49.97	5.55	55.52	74.00	-18.48
5460.00	Average	38.99	5.54	44.53	54.00	-9.47
5460.00	Peak	48.61	5.54	54.15	68.20	-14.05
5463.10	Peak	50.38	5.53	55.91	68.20	-12.29
5470.00	Peak	48.36	5.52	53.88	68.20	-14.32

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Operation Mode	:802.11ac80 / Band 4	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Jerry



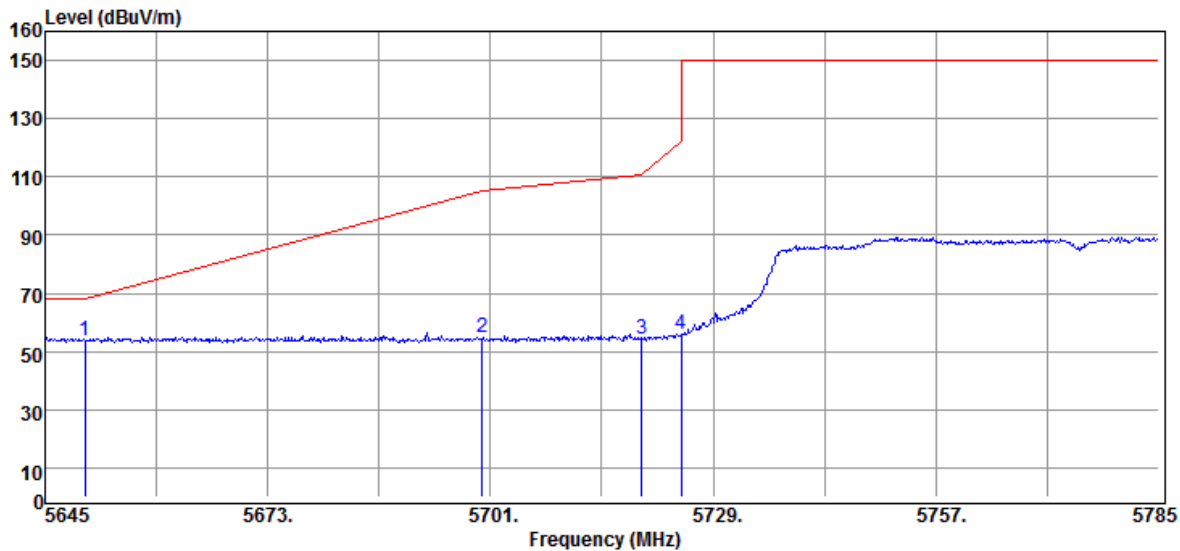
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	47.90	5.91	53.81	68.20	-14.39
5700.00	Peak	47.81	6.43	54.24	105.20	-50.96
5720.00	Peak	48.59	6.55	55.14	110.80	-55.66
5725.00	Peak	52.20	6.55	58.75	122.20	-63.45

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Operation Mode	:802.11ac80 / Band 4	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Jerry



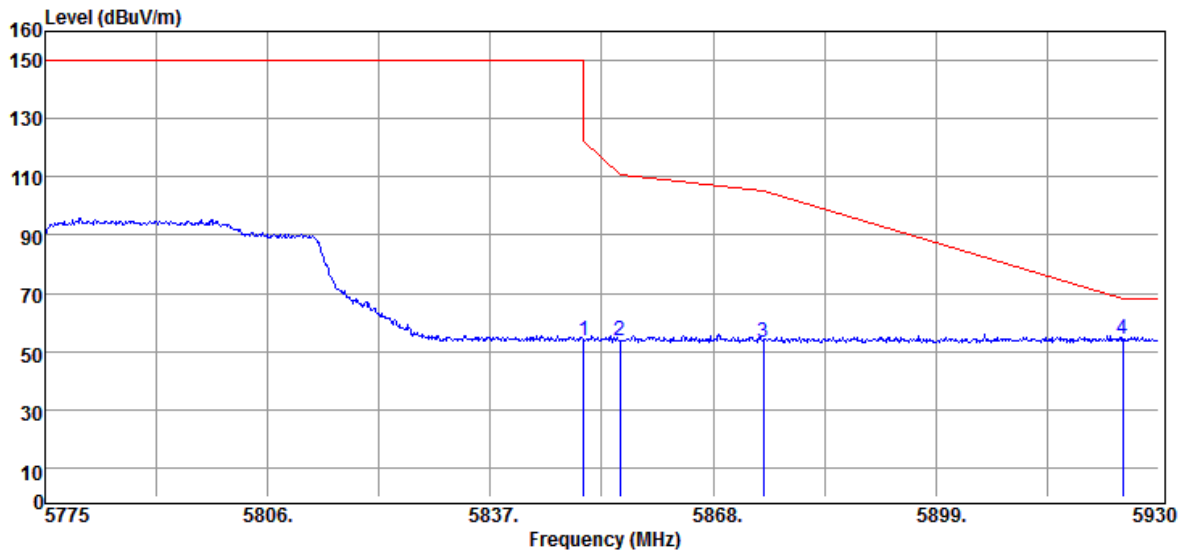
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.00	Peak	47.53	5.91	53.44	68.20	-14.76
5700.00	Peak	48.19	6.43	54.62	105.20	-50.58
5720.00	Peak	47.72	6.55	54.27	110.80	-56.53
5725.00	Peak	49.51	6.55	56.06	122.20	-66.14

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Operation Mode	:802.11ac80 / Band 4	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5850.00	Peak	47.40	6.41	53.81	122.20	-68.39
5855.00	Peak	47.44	6.43	53.87	110.80	-56.93
5875.00	Peak	46.57	6.49	53.06	105.20	-52.14
5925.00	Peak	47.54	6.44	53.98	68.20	-14.22

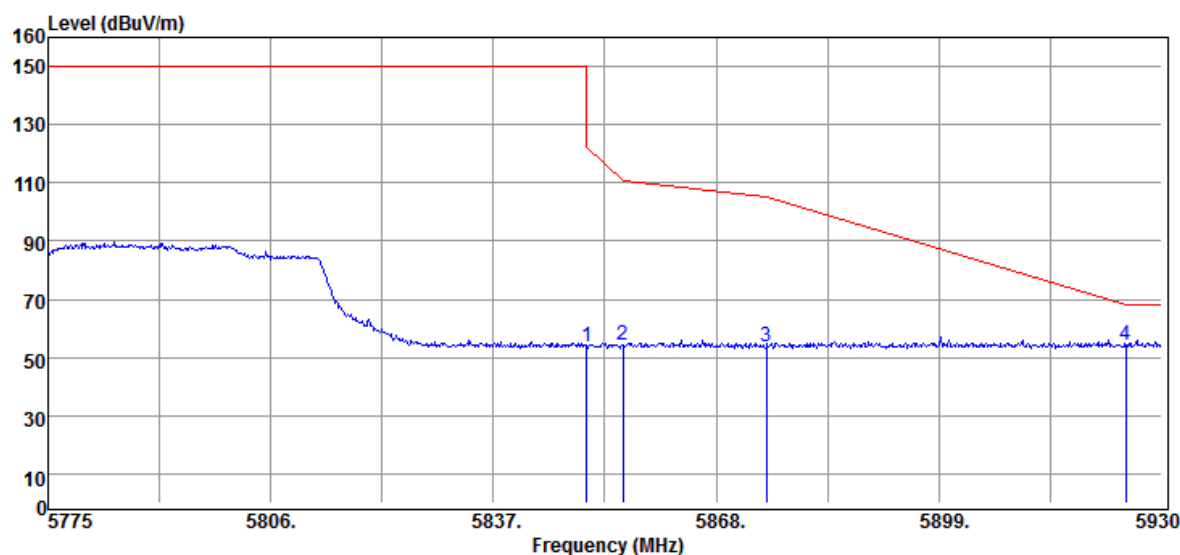
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Operation Mode :802.11ac80 / Band 4
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5775 MHz

Test Date :2019-03-13
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5850.00	Peak	47.29	6.41	53.70	122.20	-68.50
5855.00	Peak	47.88	6.43	54.31	110.80	-56.49
5875.00	Peak	47.29	6.49	53.78	105.20	-51.42
5925.00	Peak	47.55	6.44	53.99	68.20	-14.21

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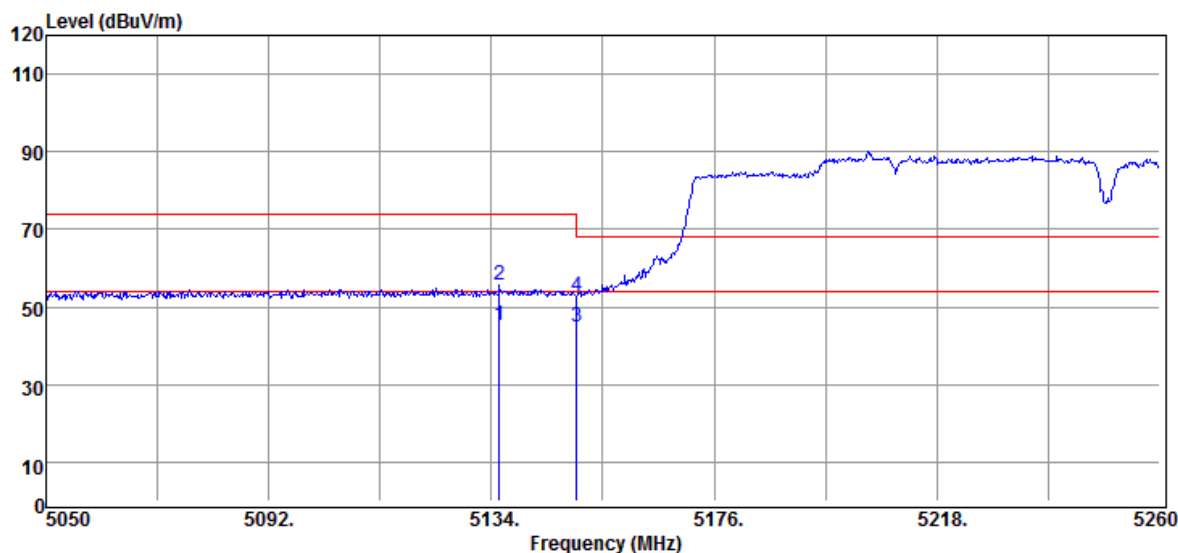
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802.11ac160 mode

Operation Mode :802.11ac160 / Band 1
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5250 MHz

Test Date :2019-03-13
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Jerry



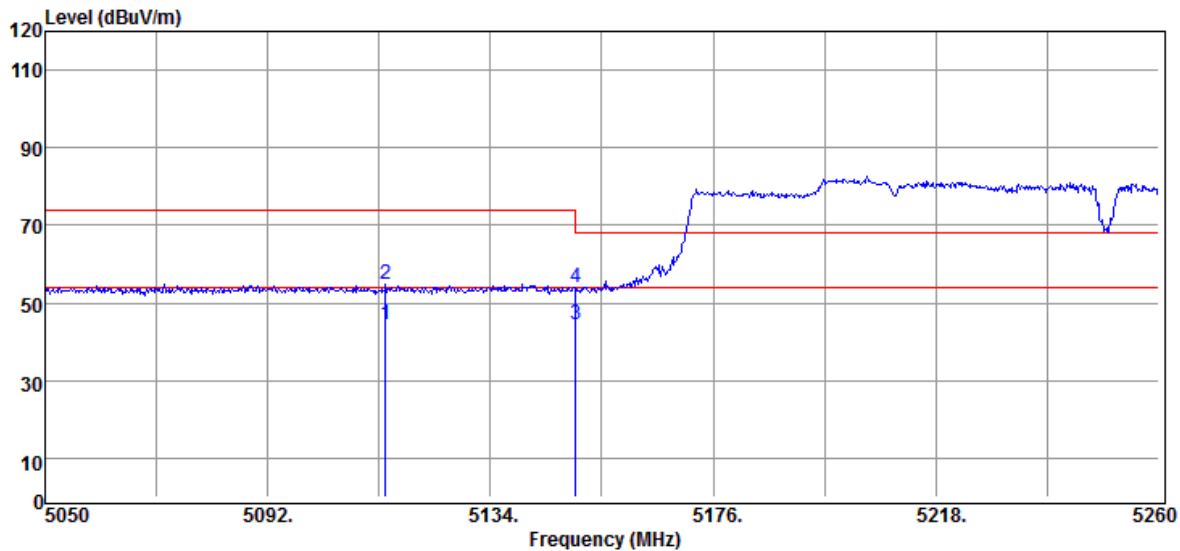
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5135.47	Average	40.82	4.60	45.42	54.00	-8.58
5135.47	Peak	51.01	4.60	55.61	74.00	-18.39
5150.00	Average	40.40	4.55	44.95	54.00	-9.05
5150.00	Peak	48.19	4.55	52.74	68.20	-15.46

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Operation Mode	:802.11ac160 / Band 1	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5250 MHz	Engineer	:Jerry



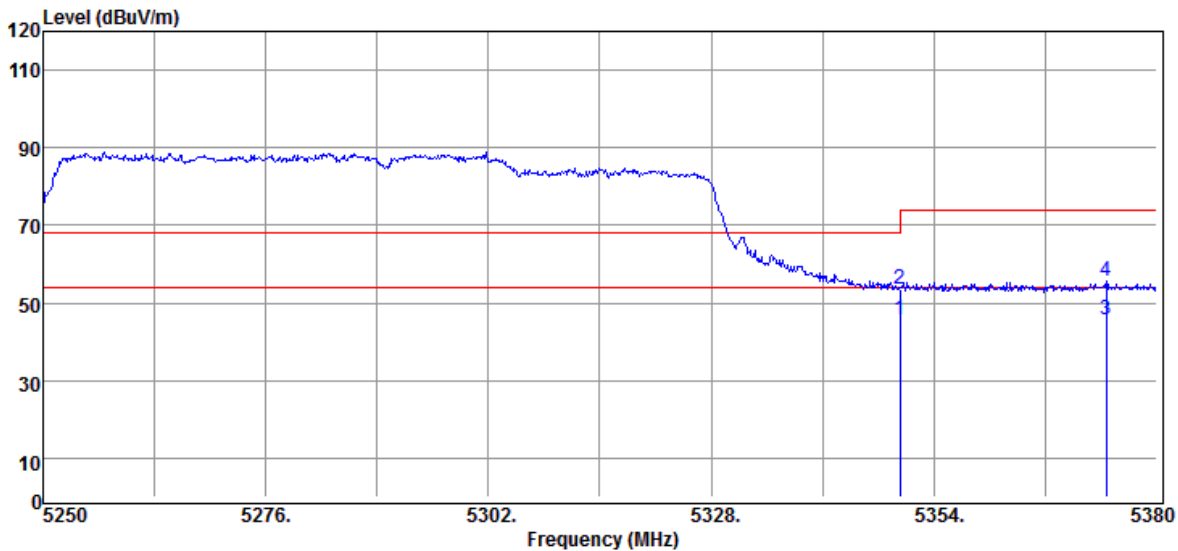
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5114.26	Average	39.88	4.75	44.63	54.00	-9.37
5114.26	Peak	50.12	4.75	54.87	74.00	-19.13
5150.00	Average	39.82	4.55	44.37	54.00	-9.63
5150.00	Peak	49.55	4.55	54.10	68.20	-14.10

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Operation Mode	:802.11ac160 / Band 2	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5250 MHz	Engineer	:Jerry



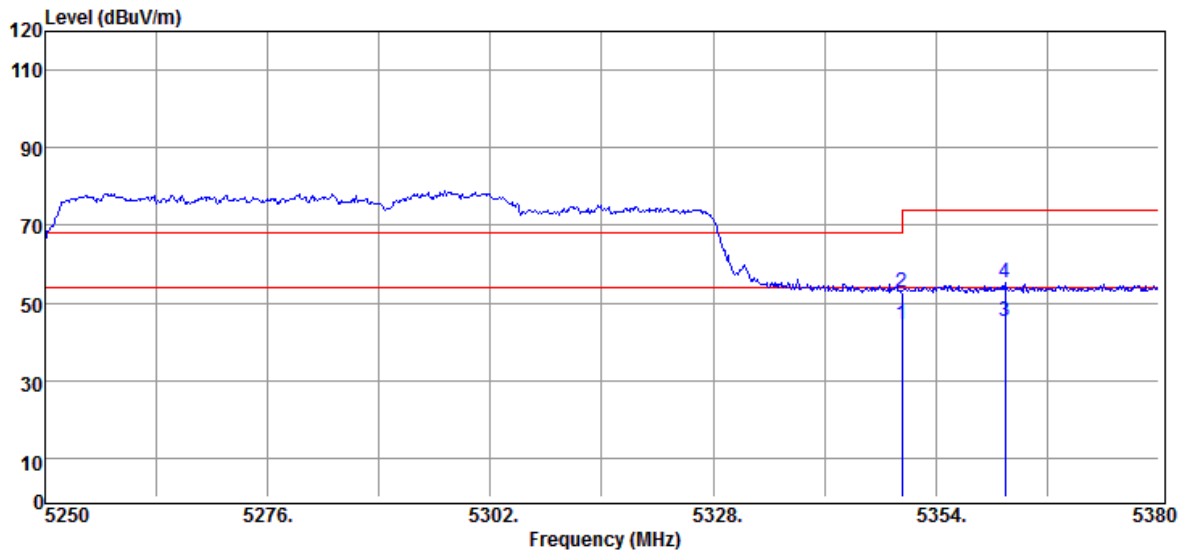
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	40.40	5.19	45.59	54.00	-8.41
5350.00	Peak	48.39	5.19	53.58	68.20	-14.62
5374.15	Average	40.21	5.35	45.56	54.00	-8.44
5374.15	Peak	50.11	5.35	55.46	74.00	-18.54

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Operation Mode	:802.11ac160 / Band 2	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5250 MHz	Engineer	:Jerry



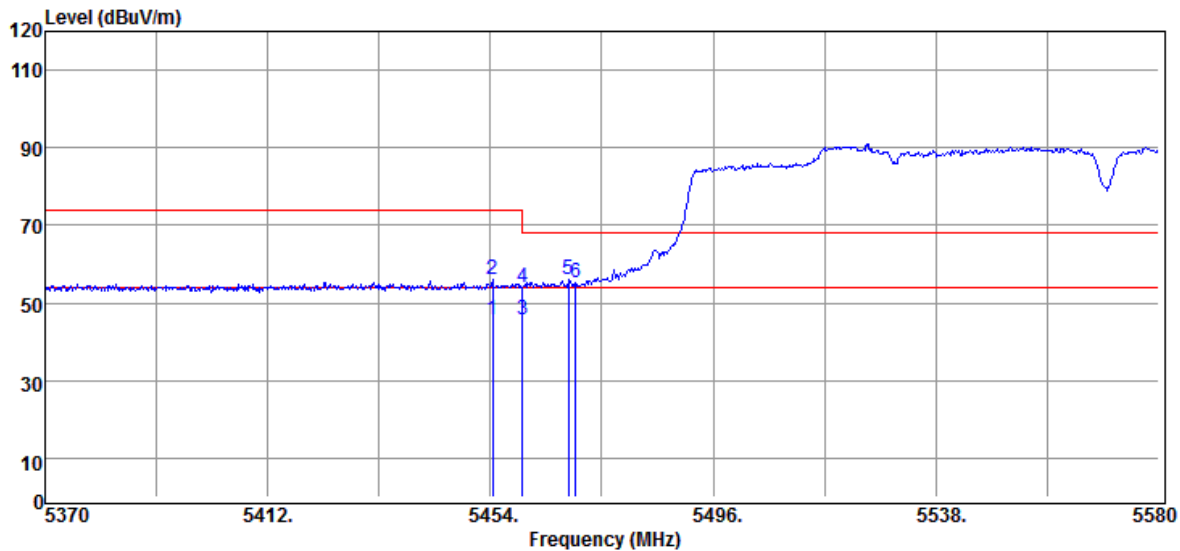
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	39.33	5.19	44.52	54.00	-9.48
5350.00	Peak	47.75	5.19	52.94	68.20	-15.26
5362.06	Average	39.93	5.23	45.16	54.00	-8.84
5362.06	Peak	50.00	5.23	55.23	74.00	-18.77

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Operation Mode	:802.11ac160 / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5570 MHz	Engineer	:Jerry



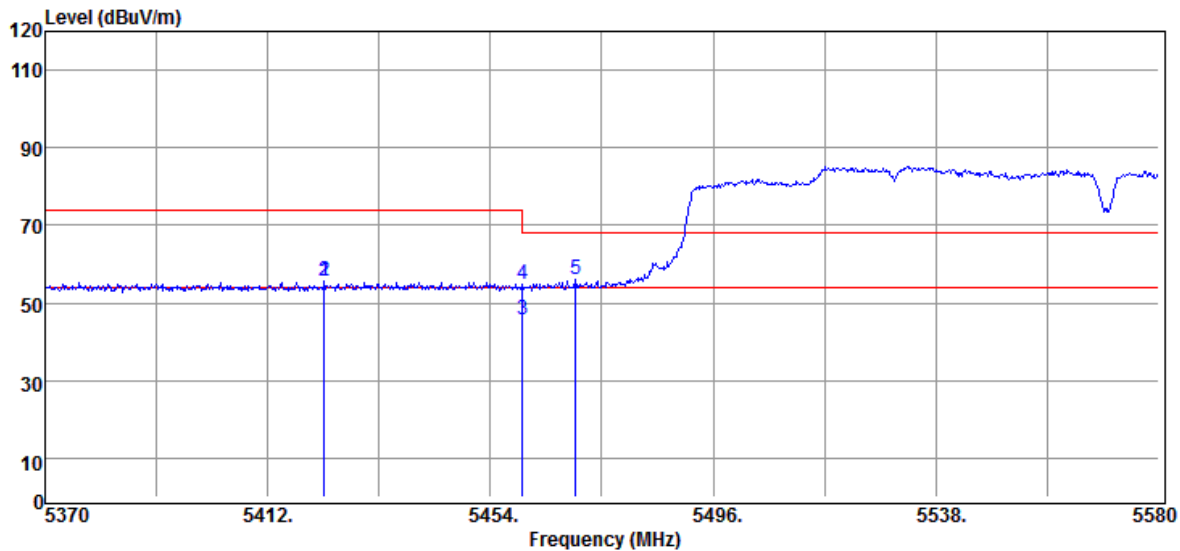
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5454.42	Average	40.31	5.55	45.86	54.00	-8.14
5454.42	Peak	50.37	5.55	55.92	74.00	-18.08
5460.00	Average	39.98	5.54	45.52	54.00	-8.48
5460.00	Peak	48.58	5.54	54.12	68.20	-14.08
5468.70	Peak	50.54	5.53	56.07	68.20	-12.13
5470.00	Peak	49.71	5.52	55.23	68.20	-12.97

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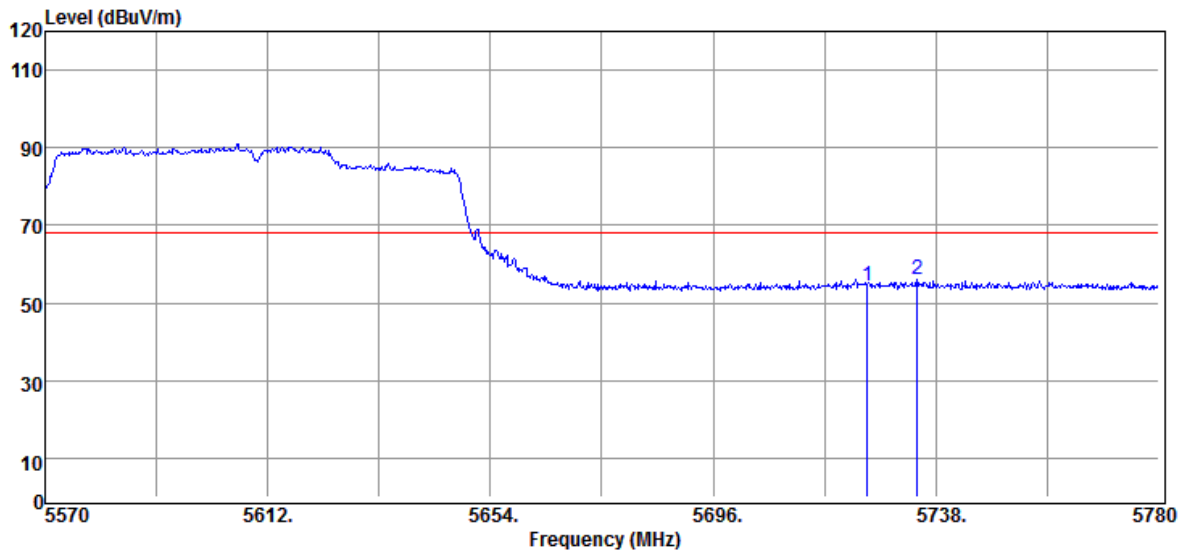
Operation Mode	:802.11ac160 / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5570 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5422.71	Peak	49.90	5.62	55.52	74.00	-18.48
5422.71	Peak	49.90	5.62	55.52	74.00	-18.48
5460.00	Average	39.97	5.54	45.51	54.00	-8.49
5460.00	Peak	49.43	5.54	54.97	68.20	-13.23
5470.00	Peak	50.47	5.52	55.99	68.20	-12.21

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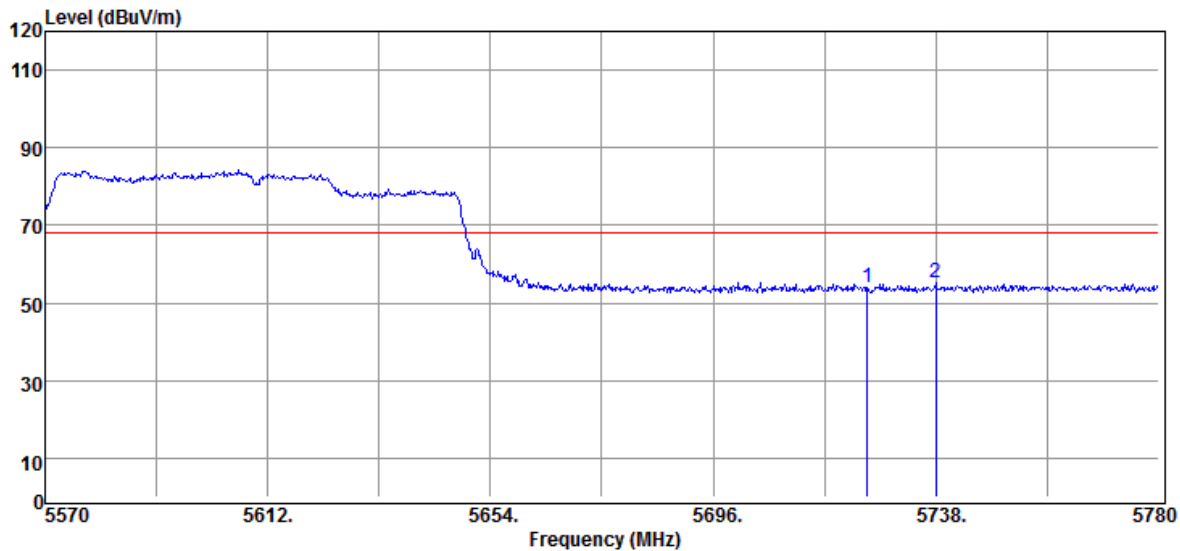
Operation Mode	:802.11ac160 / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5570 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	47.91	6.55	54.46	68.20	-13.74
5734.43	Peak	49.58	6.53	56.11	68.20	-12.09

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Operation Mode	:802.11ac160 / Band 3	Test Date	:2019-03-13
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5570 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	47.25	6.55	53.80	68.20	-14.40
5738.00	Peak	48.73	6.53	55.26	68.20	-12.94

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13 FREQUENCY STABILITY

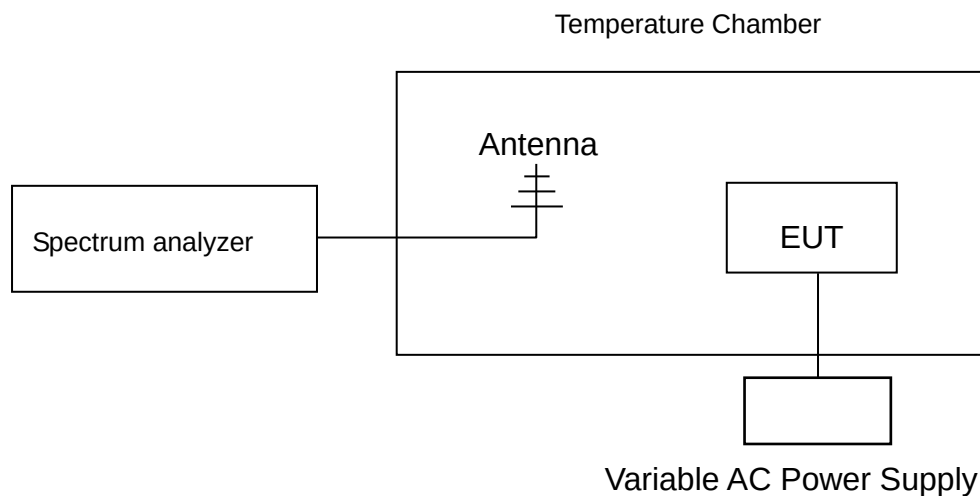
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



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13.4 Measurement Equipment Used:

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	2018/11/21	2019/11/20
DC Power Supply	Agilent	E3640A	KR93300208	2018/08/15	2019/08/14
DC Block	PASTERNAK	PE8210	RF29	2019/02/26	2020/02/25
Attenuator	Marvelous	MVE2213-10	RF80	2019/02/26	2020/02/25

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2019.03.13
Temperature	: 24°C	Test By	Henry
Humidity	: 62%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	17.57	36	5180	5,179.99202	0.00000154
	13.75	36	5180	5,179.99175	0.00000159
25	15.28	36	5180	5,179.99236	0.00000147
35	17.57	36	5180	5,179.99162	0.00000162
	13.75	36	5180	5,179.99165	0.00000161

2 Minutes:

Operation Mode	802.11 a	Test Date	2019.03.13
Temperature	: 24°C	Test By	Henry
Humidity	: 62%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	17.57	36	5180	5,179.99184	0.00000158
	13.75	36	5180	5,179.99196	0.00000155
25	15.28	36	5180	5,179.99182	0.00000158
35	17.57	36	5180	5,179.99165	0.00000161
	13.75	36	5180	5,179.99208	0.00000153

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5 Minutes:

Operation Mode	802.11 a	Test Date	2019.03.13
Temperature	: 24°C	Test By	Henry
Humidity	: 62%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	17.57	36	5180	5,179.99209	0.00000153
	13.75	36	5180	5,179.99231	0.00000148
25	15.28	36	5180	5,179.99181	0.00000158
35	17.57	36	5180	5,179.99192	0.00000156
	13.75	36	5180	5,179.99218	0.00000151

10 Minutes:

Operation Mode	802.11 a	Test Date	2019.03.13
Temperature	: 24°C	Test By	Henry
Humidity	: 62%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	17.57	36	5180	5,179.99210	0.00000153
	13.75	36	5180	5,179.99224	0.00000150
25	15.28	36	5180	5,179.99235	0.00000148
35	17.57	36	5180	5,179.99174	0.00000159
	13.75	36	5180	5,179.99179	0.00000158

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

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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