

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Applicant: Sharp Corporation, Mobile Communication B.U.
2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi,
Hiroshima 739-0192, Japan

Manufacturer: Sharp Corporation
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Product Name: Smart Phone

Report Number: T190304W03-RP5

FCC ID: APYHRO00272

FCC Rule Part: §15.407, Cat: NII

Issue Date: Mar. 29, 2019

Date of Test: Mar. 05, 2019~Mar. 26, 2019

Date of EUT Received: Mar. 05, 2019

Issued by: Compliance Certification Services Inc. Wugu Lab.
No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Tai-
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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
The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Wei Chang

Tested By: _____

Wei Chang / Engineer

Kevin Tsai

Approved By: _____

Kevin Tsai / Deputy Manager



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Revision History

Report Number	Revision	Description	Effectuated Page	Issue Date	Revised By
T190304W03-RP5	Rev.00	Initial creation of document	All	Mar. 26, 2019	Violetta Tang
T190304W03-RP5	Rev.01	Updated 966A Chamber Equipment list	Page 48	Mar. 29, 2019	Violetta Tang

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Smart Phone
Hardware Version:	DVT
Software Version:	N/A
Power Supply:	3.85V from Rechargeable Li-ion Battery

WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Avg. Power (dBm)	Modulation Technology
11a_20	5180~5240	4	16.84	OFDM
	5260~5320	4	16.88	
	5500~5700	11	16.63	
11n_HT / ac_VHT 20M	5180~5240	4	HT: 16.98 (Worst Case)	OFDM
	5260~5320	4	HT: 16.93 (Worst Case)	
	5500~5700	11	HT: 16.91 (Worst Case)	
11n_HT / ac_VHT 40M	5190~5230	2	HT: 16.97 (Worst Case)	OFDM
	5270~5310	2	HT: 16.85 (Worst Case)	
	5510~5670	5	HT: 16.80 (Worst Case)	
11ac VHT80M	5210	1	14.37	OFDM
	5290	1	14.42	
	5530~5610	2	16.35	
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 – 173.3Mbps 802.11 ac_40MHz: 13.5 – 400.0Mbps 802.11 ac_80MHz: 29.3 – 866.7Mbps		
Antenna Designation:		Inverted-F Antenna, 5150~5250MHz Gain: -0.3dBi (ANT0) / -2.8dBi (ANT1) 5250~5350MHz Gain: -0.3dBi (ANT0) / -2.8dBi (ANT1) 5470~5725MHz Gain: -0.1dBi (ANT0) / -2.2dBi (ANT1)		

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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 V02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

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 turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission



Fig. 2-2 Conducted (Antenna Port) Emission

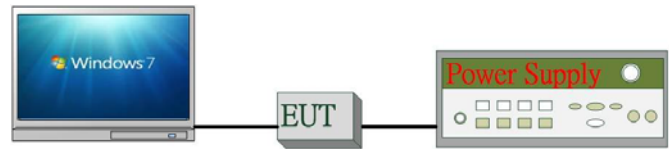


Fig. 2-2 AC Power Line Conducted Emission



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	DC Power Supply	Anritsu	E3640A	MY52410006	N/A	Unshielded
3.	Notebook	Lenovo	T440P	PC-089AH5	Shielded	Unshielded

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3. SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.203 §15.407(a)	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:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
36	5180
40	5200
44	5220
48	5240

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
38	5190
46	5230

802.11ac VHT80 Mode	
channel	Frequency
42	5210

Operated band in 5250 MHz ~5350 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
channel	Frequency
52	5260
56	5280
60	5300
64	5320

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
54	5270
62	5310

802.11ac VHT80 Mode	
Channel	Frequency
58	5290

Operated band in 5470 MHz ~5725 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
102	5510
110	5550
118	5590
126	5630
134	5670

802.11ac VHT80 Mode	
channel	Frequency
106	5530
122	5610

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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 prorammed.
3. Investigation has been done on all the possible configurations for searching the worst case. The gevin UE is pre-scanned among below modes.

Modulation	Transmission Chain		Multiple Transmission Spatial
<input type="checkbox"/> 802.11 a	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input checked="" type="checkbox"/> 2TX
<input type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input checked="" type="checkbox"/> MIMO
<input type="checkbox"/> 802.11 ac	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input checked="" type="checkbox"/> MIMO

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

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	2TX
802.11a	5260~5320	52 to 64	60	OFDM	6	2TX
802.11a	5500~5700	100 to 140	116	OFDM	6	2TX
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO

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802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	Ch1
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO

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 Transmitter for channel Low, Mid and High, the worst case E1 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11ac_VHT20					MCS0	
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT40					MCS0	
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11ac_VHT20					MCS0	
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT40					MCS0	
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MIMO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11ac_VHT20					MCS0	
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT40					MCS0	
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS0	MIMO

The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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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	+/- 2.128 dB
Peak Power Spectral Density	+/- 2.878 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(μV)	
	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	06/29/2018	06/28/2019
EMI Test Receiver	R&S	ESCI	100064	07/24/2018	07/23/2019
LISN	SCHWARZBECK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

6.3 EUT Setup

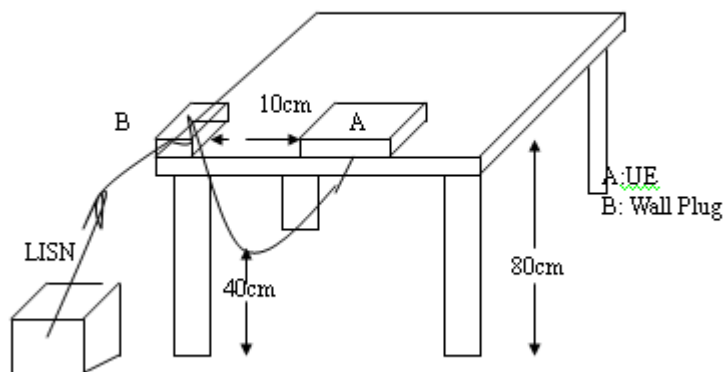
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz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

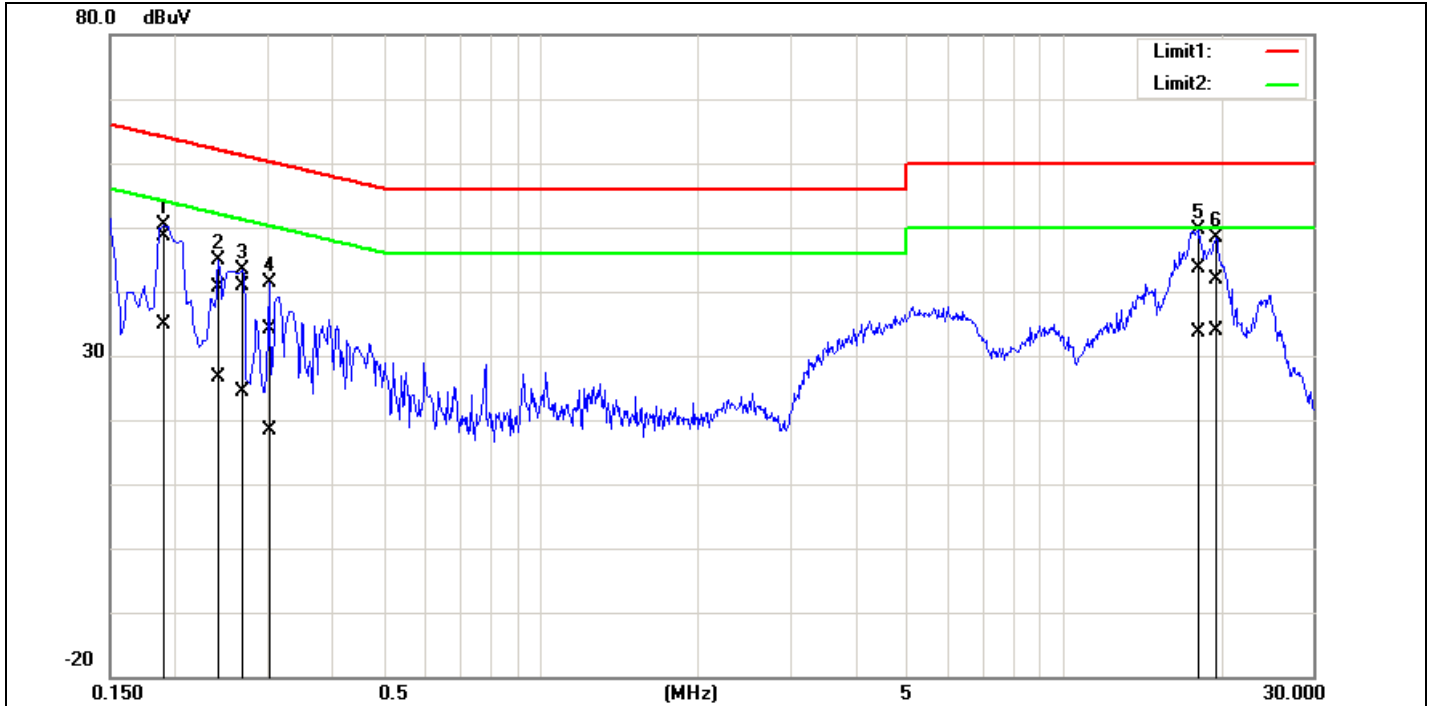
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation	Date:	2019/3/11
Line:	L1	Temp.(°C)/Hum.(%):	24(°C)/52%
Test Voltage:	AC 120V/60Hz	Test By:	Peter



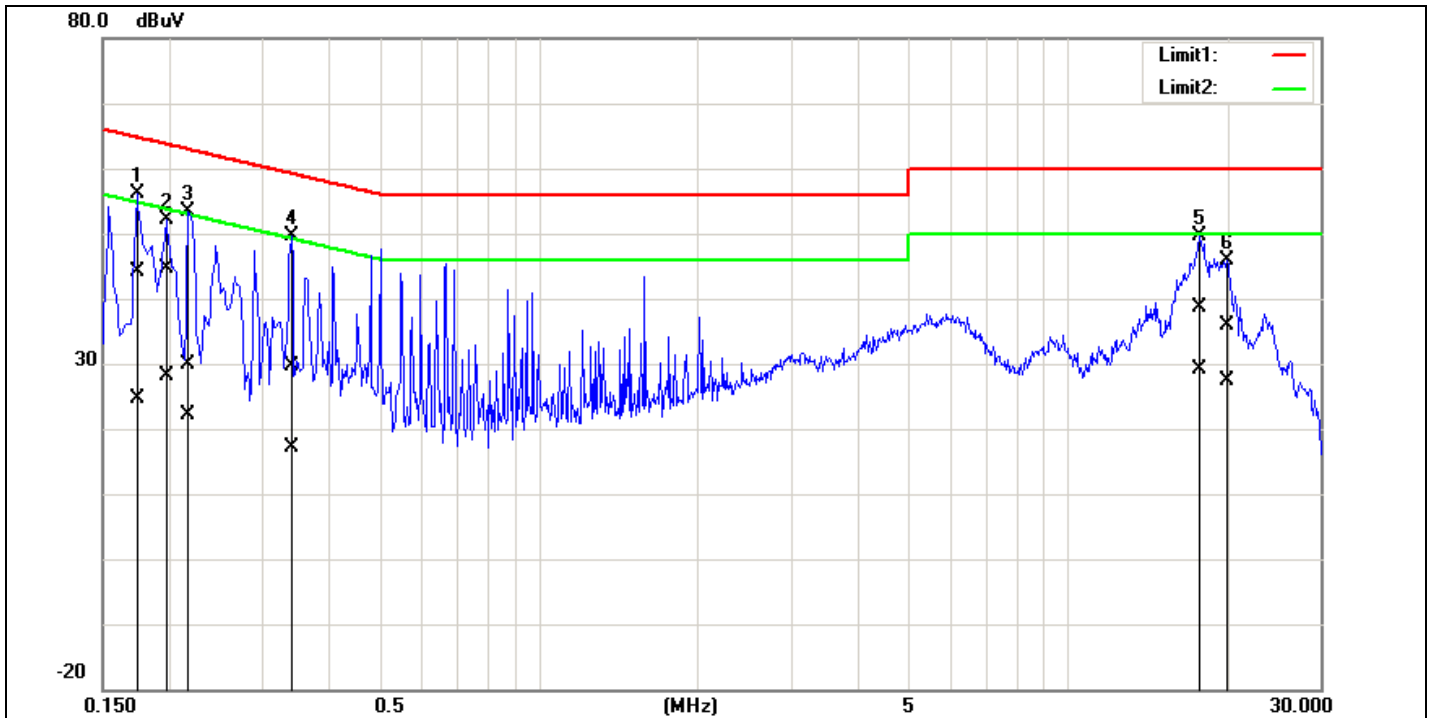
No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1900	48.48	34.61	0.15	48.63	34.76	64.03	54.04	-15.40	-19.28	Pass
2	0.2420	40.36	26.44	0.15	40.51	26.59	62.02	52.03	-21.51	-25.44	Pass
3	0.2700	40.69	24.21	0.15	40.84	24.36	61.12	51.12	-20.28	-26.76	Pass
4	0.3020	34.00	18.13	0.16	34.16	18.29	60.19	50.19	-26.03	-31.90	Pass
5	18.1100	42.96	33.00	0.65	43.61	33.65	60.00	50.00	-16.39	-16.35	Pass
6	19.5340	41.17	33.17	0.69	41.86	33.86	60.00	50.00	-18.14	-16.14	Pass

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Description:	Operation	Date:	2019/3/11
Line:	N	Temp.(°C)/Hum.(%):	24(°C)/52%
Test Voltage:	AC 120V/60Hz	Test By:	Peter



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	0.1740	44.02	24.65	0.10	44.12	24.75	64.76	54.77	-20.64	-30.02	Pass
2*	0.1980	44.43	28.14	0.10	44.53	28.24	63.69	53.69	-19.16	-25.45	Pass
3	0.2180	29.75	22.13	0.10	29.85	22.23	62.89	52.89	-33.04	-30.66	Pass
4	0.3420	29.47	16.91	0.11	29.58	17.02	59.15	49.15	-29.57	-32.13	Pass
5	17.7099	38.12	28.61	0.51	38.63	29.12	60.00	50.00	-21.37	-20.88	Pass
6	19.9900	35.45	26.81	0.55	36.00	27.36	60.00	50.00	-24.00	-22.64	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:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

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	98.17	0.08	0.49	1.00
802.11n_20	98.00	0.09	0.53	1.00
802.11n_40	96.02	0.18	1.08	2.00
802.11ac_80	100.00	0.00	0.00	0.01

Duty Cycle Factor: $10 * \log(1/0.9817) = 0.08$

Duty Cycle Factor: $10 * \log(1/0.98) = 0.09$

Duty Cycle Factor: $10 * \log(1/0.9602) = 0.18$

Duty Cycle Factor: $10 * \log(1/1) = 0$

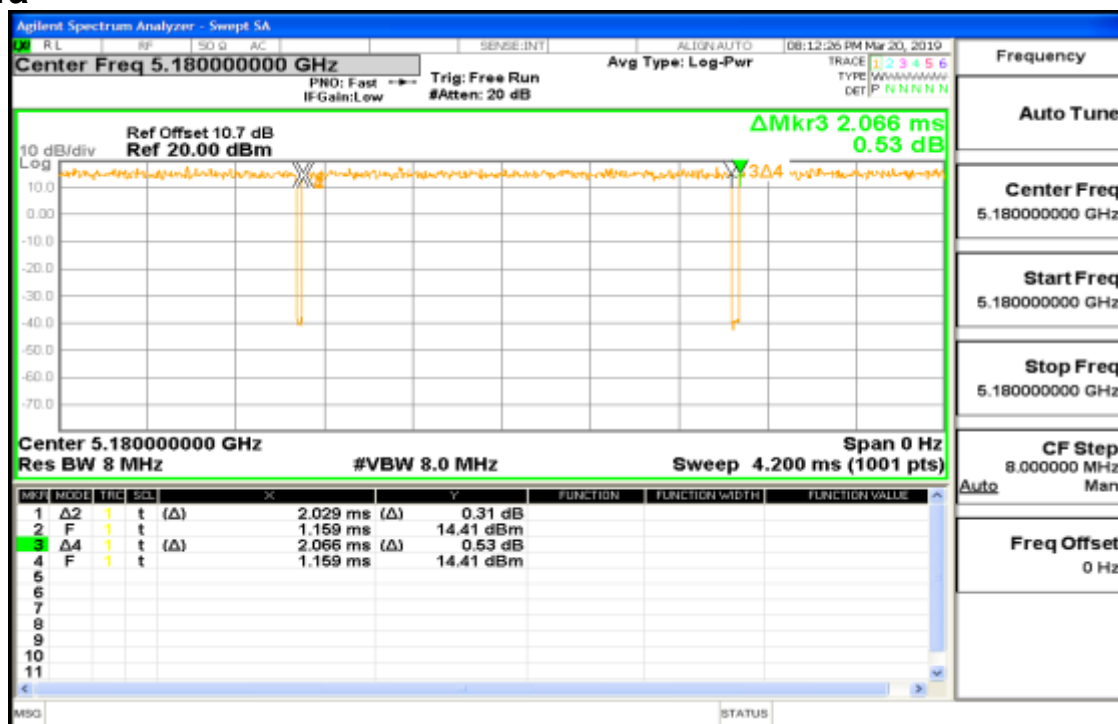
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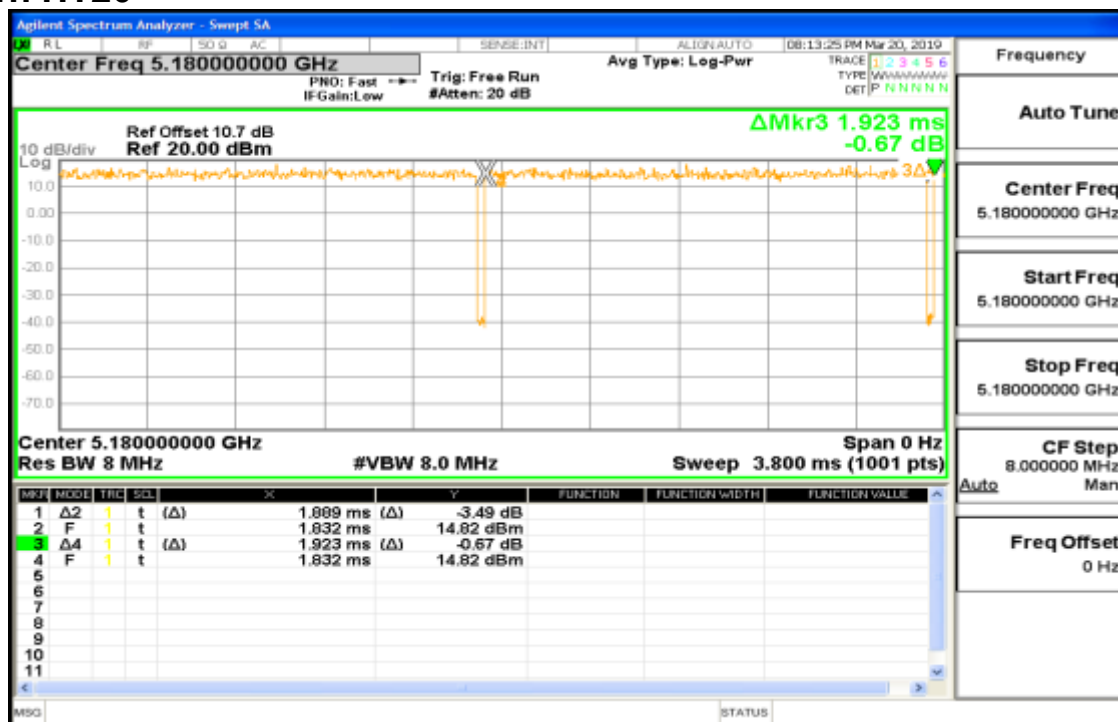
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DUTY CYCLE TEST SIGNAL Measurement Result

802.11a



802.11n HT20



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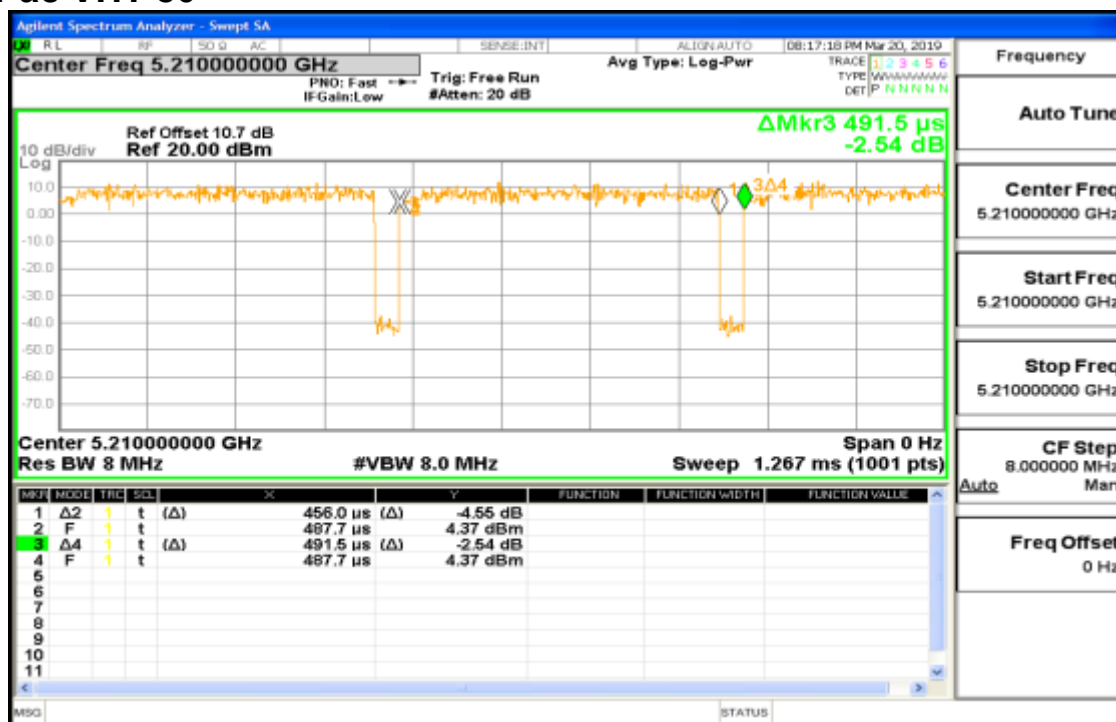
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802.11n HT 40



802.11 ac VHT 80



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8. 26DB 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. For 99% Bandwidth:

Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = 30M/50MHz, Detector=Sample, Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.

Repeat above procedures until all frequency of interest measured was complete.

8.3 Measurement Equipment Used

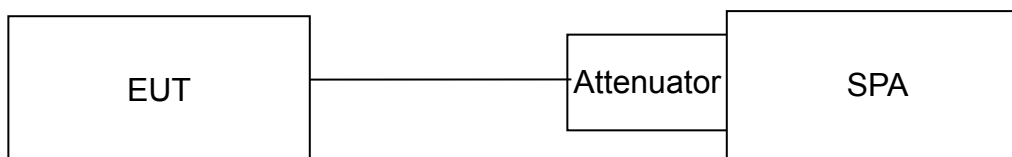
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	KR93300208	08/15/2018	08/14/2019
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/09/2018	04/08/2019
Thermostatic/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019
DC Block	Mini-Circuit s	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020

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8.4 Test Set-up



8.5 Measurement Result

26dB Bandwidth

802.11a_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.68	13.556
5220	22.90	13.598
5240	23.12	13.640
5260	23.36	13.685
5300	22.71	13.562
5320	23.13	13.642
5500	23.65	13.738
5580	23.62	13.733
5700	23.20	13.655

802.11a_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.53	13.528
5220	22.44	13.510
5240	23.17	13.649
5260	22.19	13.462
5300	22.75	13.570
5320	22.66	13.552
5500	23.01	13.619
5580	23.40	13.692
5700	23.74	13.755

802.11n_HT20_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.54	13.717
5220	22.85	13.588
5240	23.67	13.742
5260	23.30	13.673
5300	23.68	13.743
5320	23.75	13.757
5500	23.47	13.706
5580	24.05	13.812
5700	23.62	13.733

802.11n_HT20_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.43	13.508
5220	23.31	13.675
5240	23.30	13.673
5260	23.67	13.741
5300	23.92	13.788
5320	22.25	13.474
5500	24.20	13.838
5580	23.65	13.738
5700	23.39	13.690

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802.11n_HT40_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	41.06	16.134
5230	41.59	16.190
5270	41.17	16.146
5310	40.97	16.125
5510	40.87	16.114
5550	40.29	16.052
5670	40.75	16.101

802.11n_HT40_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	41.03	16.130
5230	41.32	16.162
5270	40.51	16.076
5310	40.83	16.110
5510	40.97	16.124
5550	41.44	16.174
5670	41.35	16.165

802.11ac_VHT80_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	83.60	19.222
5290	82.53	19.166
5530	83.82	19.233
5610	82.91	19.186

802.11ac_VHT80_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	83.96	19.241
5290	82.97	19.189
5530	82.84	19.182
5610	83.53	19.218

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99% BW verification for DFS Function

802.11a_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.37	< 5250

802.11a_Ch1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.37	< 5250

802.11n_HT20_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.97	< 5250

802.11n_HT20_Ch1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.97	< 5250

802.11n_HT40_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5248.20	< 5250

802.11n_HT40_Ch1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5248.15	< 5250

802.11ac_VHT80_Ch0

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5248.00	< 5250

802.11n_HT80_Ch1

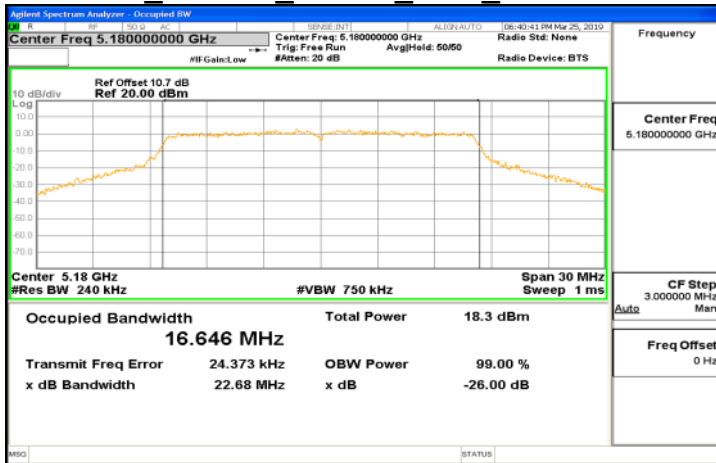
Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5248.00	< 5250

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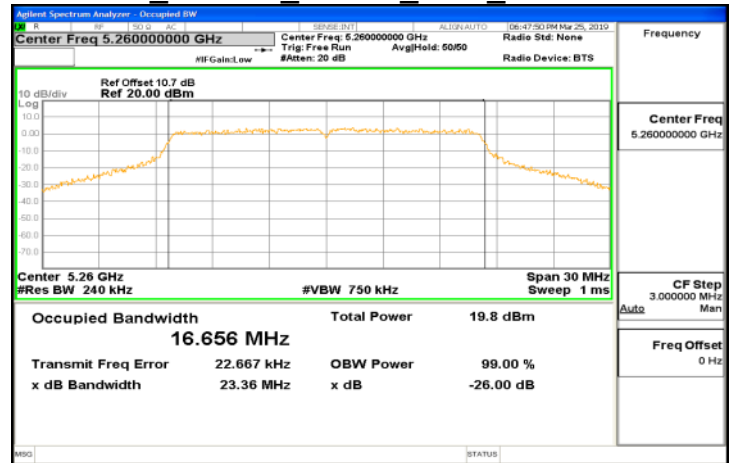
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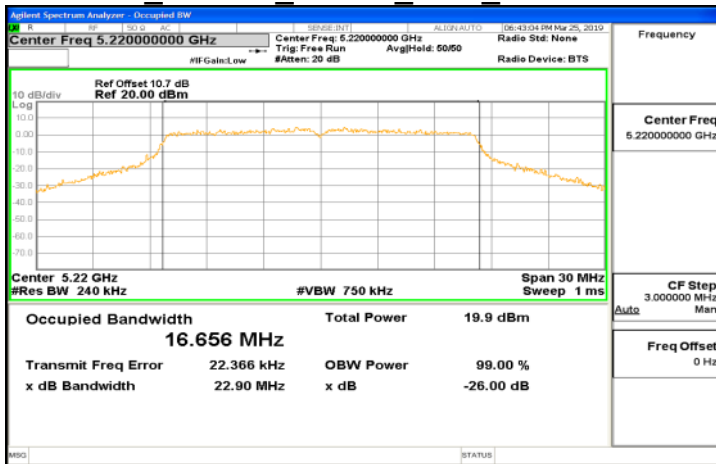
FCC 802.11a 20MHz Main 5180MHz



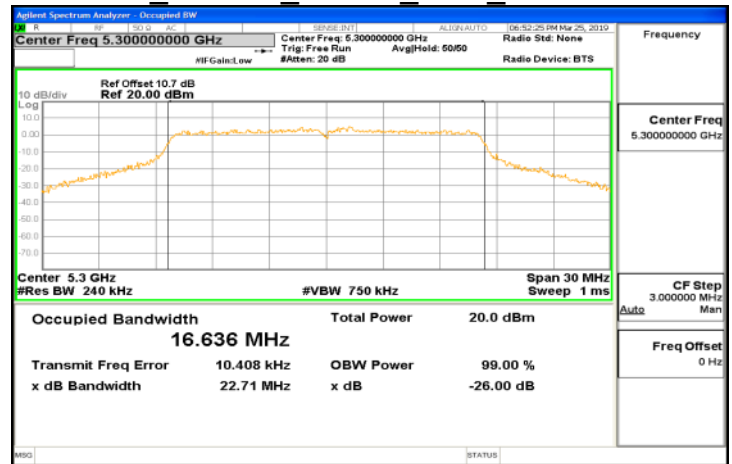
FCC 802.11a 20MHz Main 5260MHz



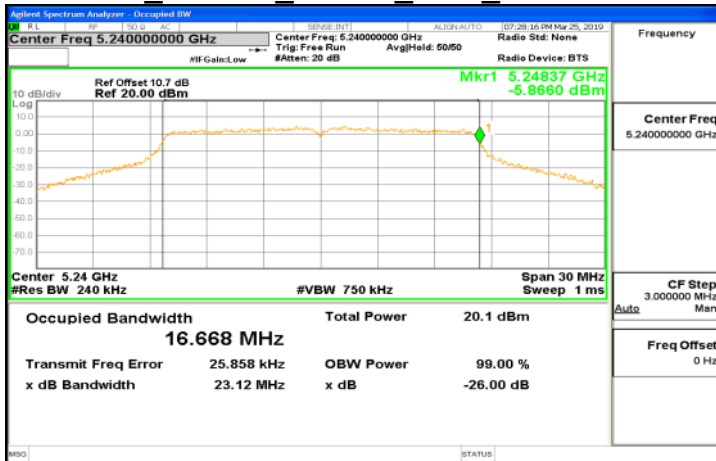
FCC 802.11a 20MHz Main 5220MHz



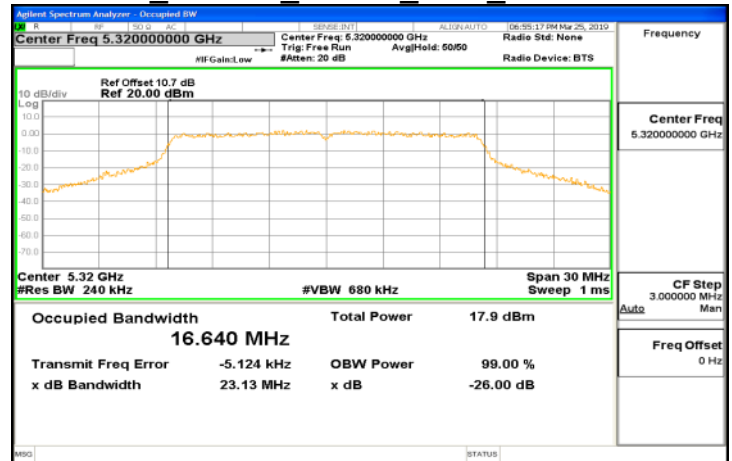
FCC 802.11a 20MHz Main 5300MHz



FCC 802.11a 20MHz Main 5240MHz



FCC 802.11a 20MHz Main 5320MHz

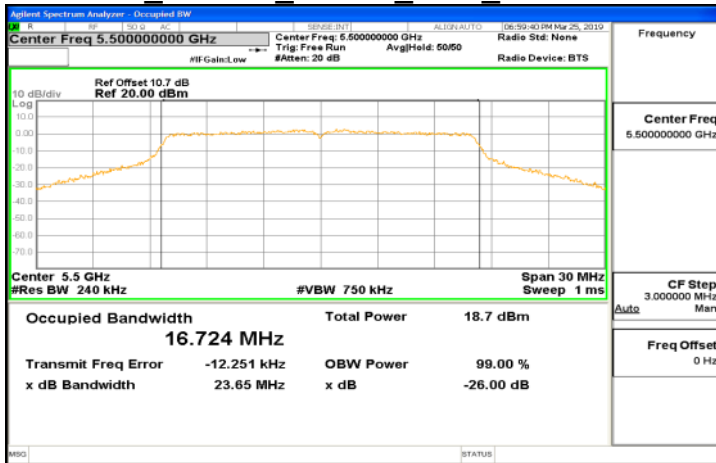


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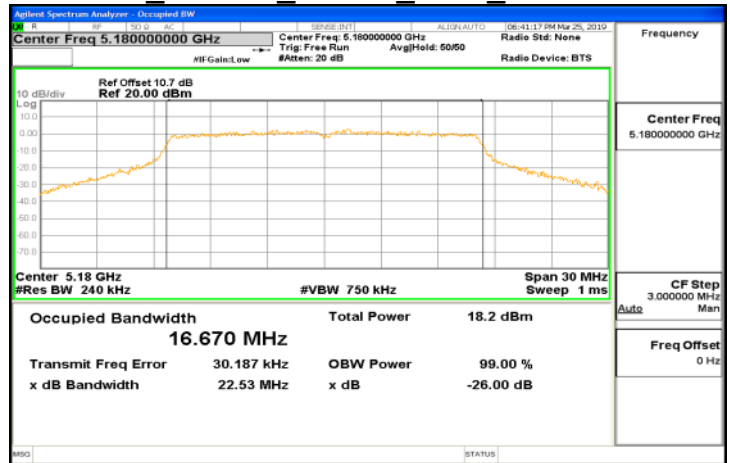
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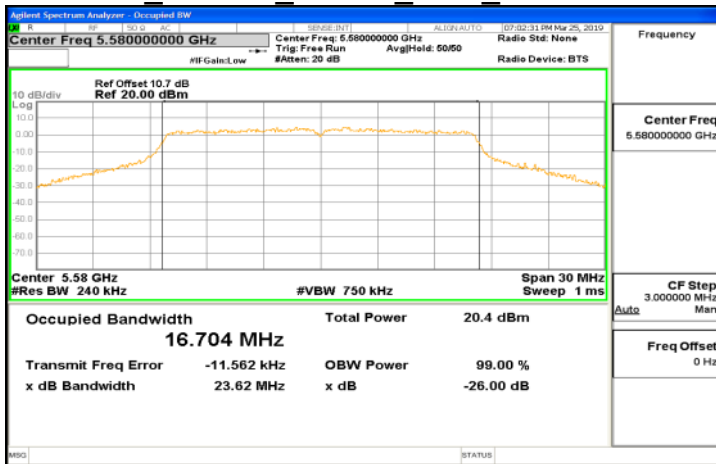
FCC 802.11a 20MHz Main 5500MHz



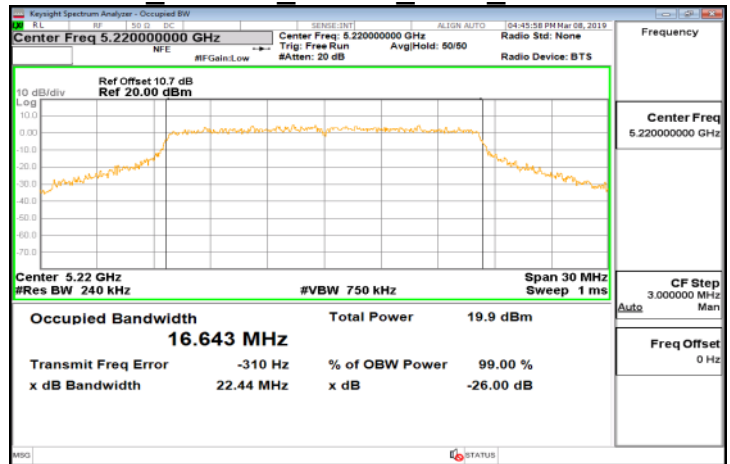
FCC 802.11a 20MHz Aux1 5180MHz



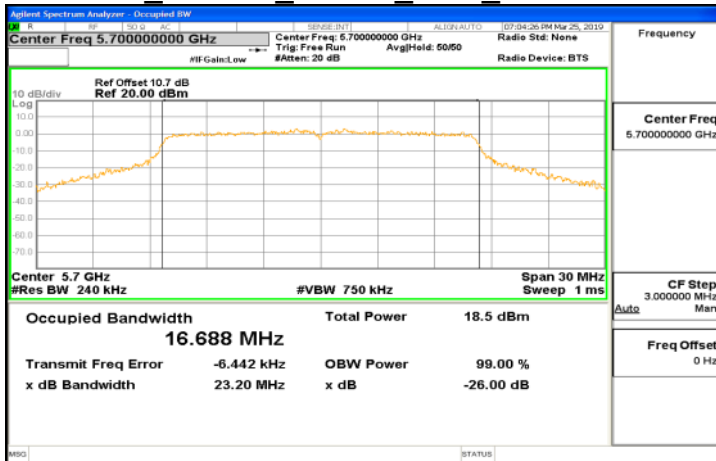
FCC 802.11a 20MHz Main 5580MHz



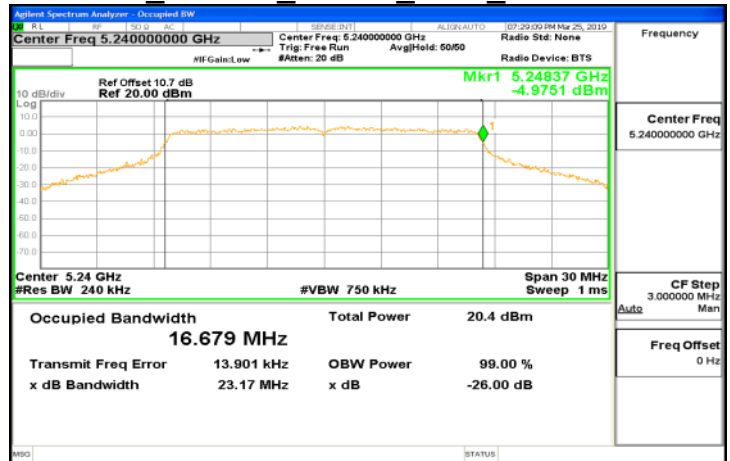
FCC 802.11a 20MHz Aux1 5220MHz



FCC 802.11a 20MHz Main 5700MHz



FCC 802.11a 20MHz Aux1 5240MHz

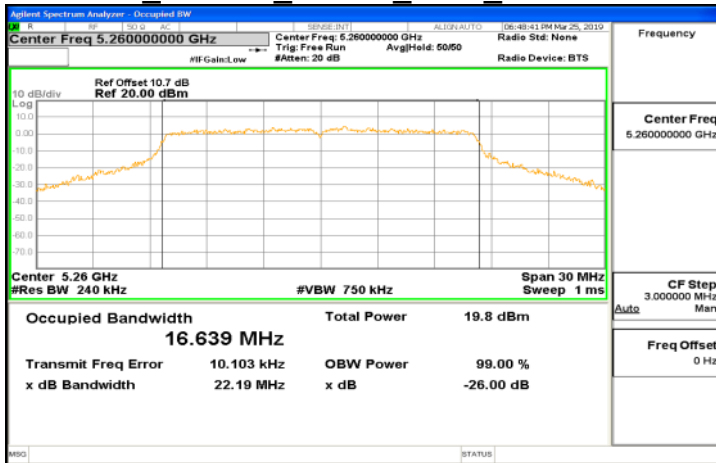


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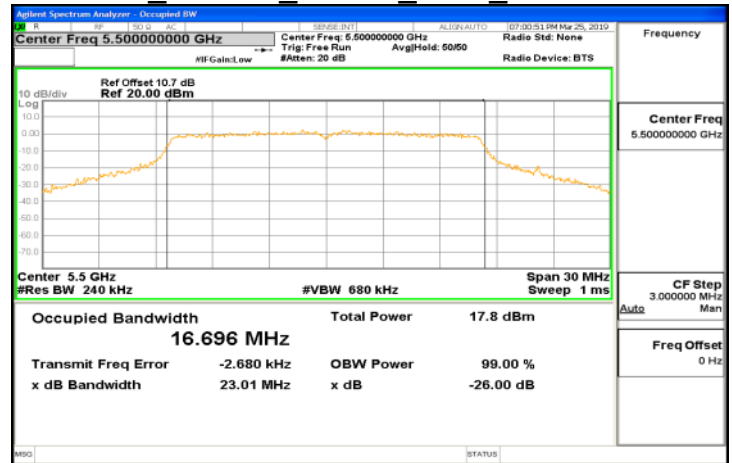
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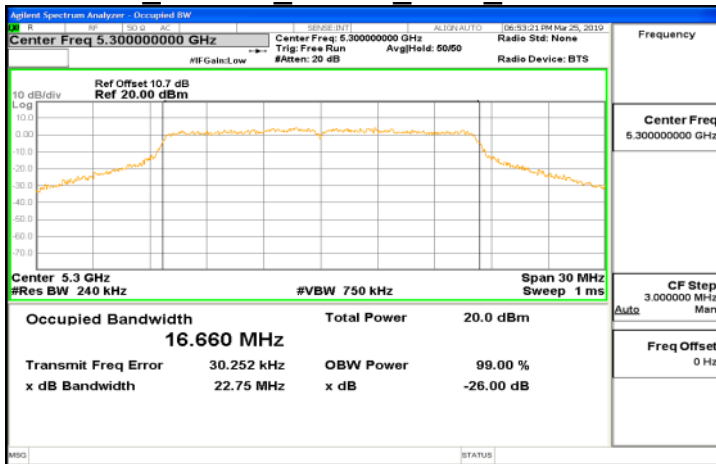
FCC 802.11a 20MHz Aux1 5260MHz



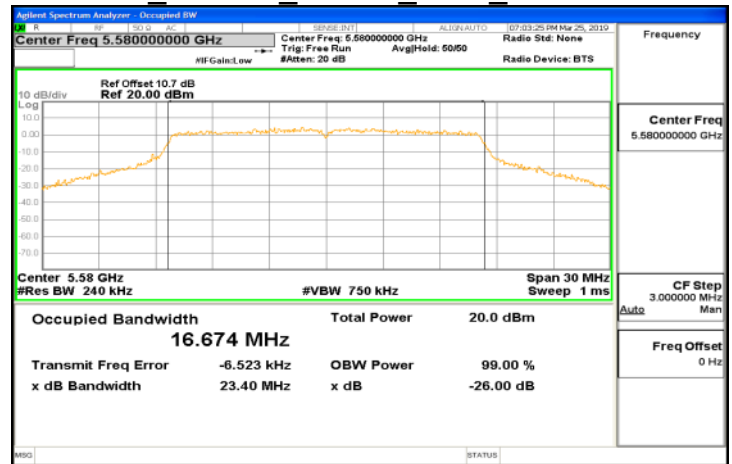
FCC 802.11a 20MHz Aux1 5500MHz



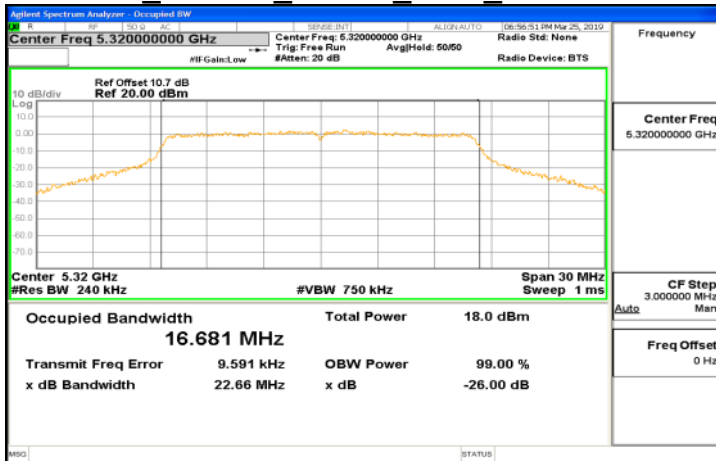
FCC 802.11a 20MHz Aux1 5300MHz



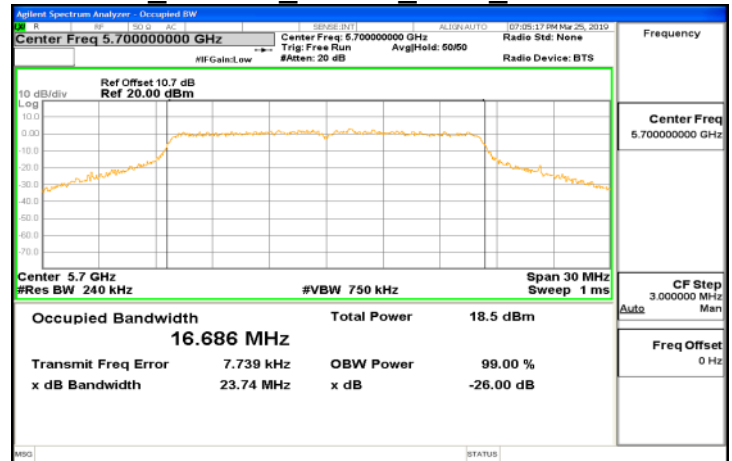
FCC 802.11a 20MHz Aux1 5580MHz



FCC 802.11a 20MHz Aux1 5320MHz



FCC 802.11a 20MHz Aux1 5700MHz

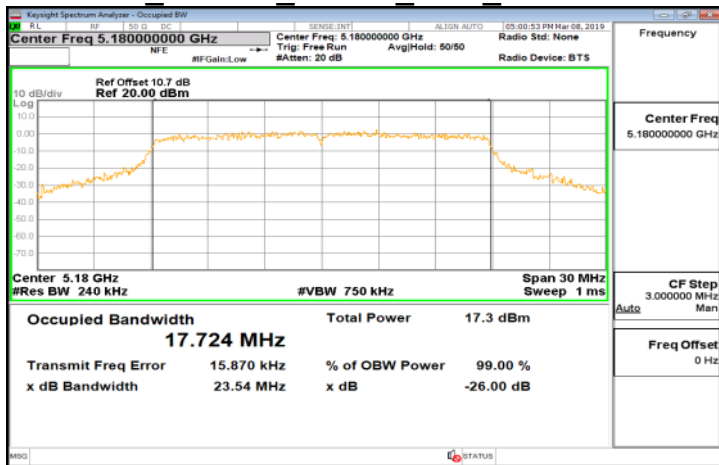


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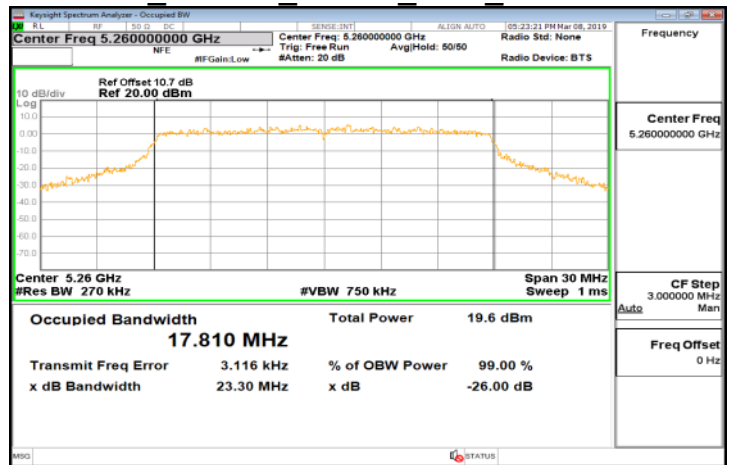
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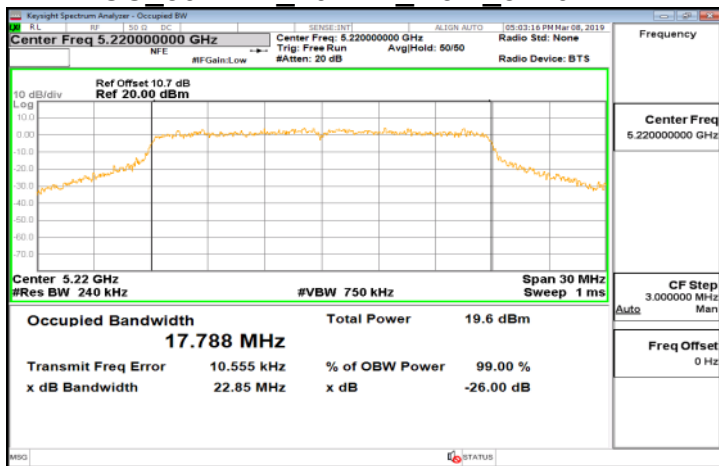
FCC 802.11n 20MHz Main 5180MHz



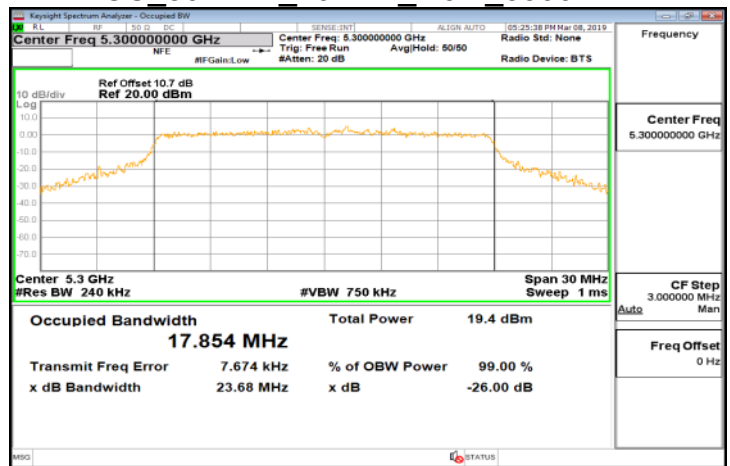
FCC 802.11n 20MHz Main 5260MHz



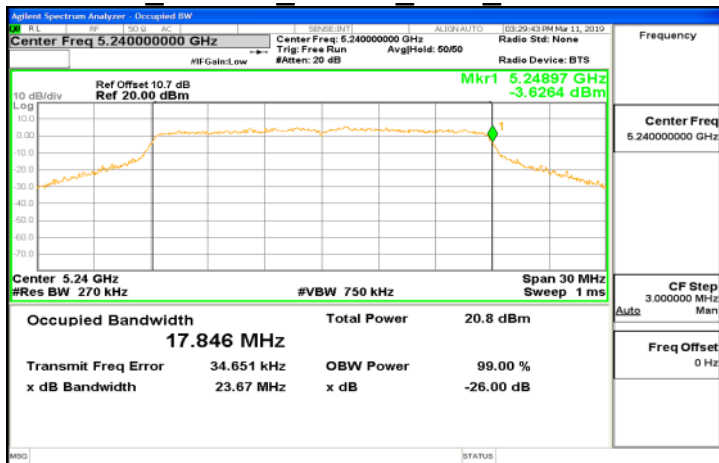
FCC 802.11n 20MHz Main 5220MHz



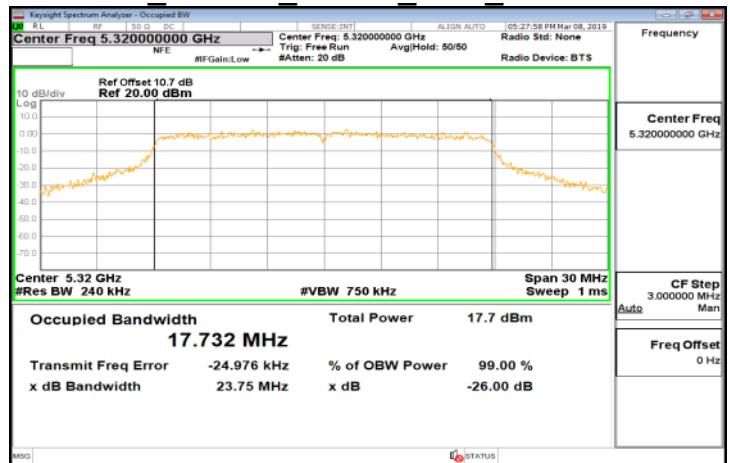
FCC 802.11n 20MHz Main 5300MHz



FCC 802.11n 20MHz Main 5240MHz



FCC 802.11n 20MHz Main 5320MHz

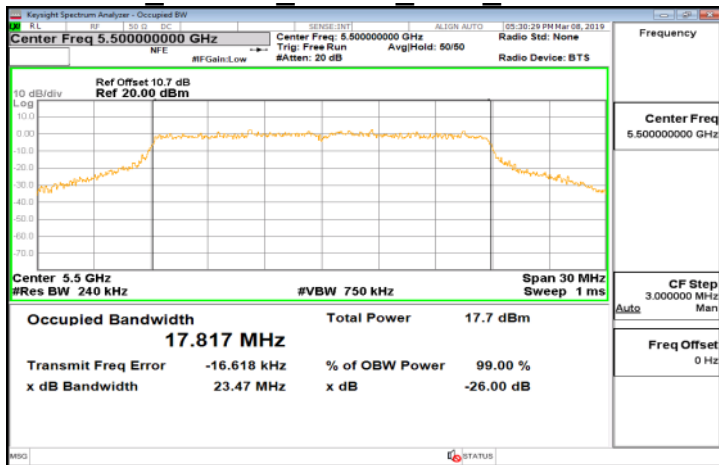


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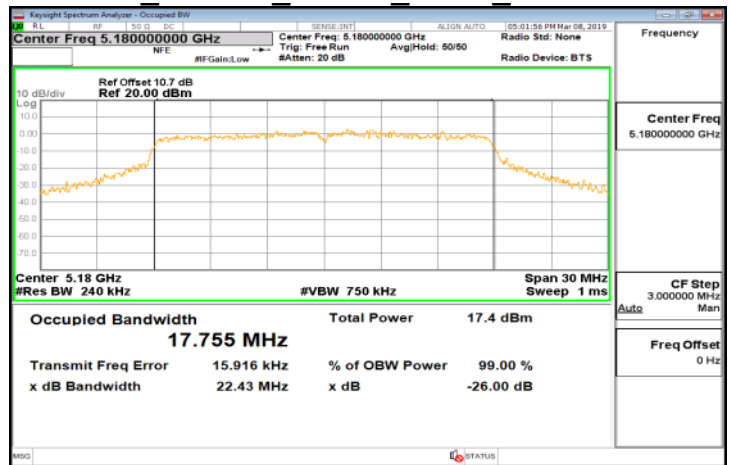
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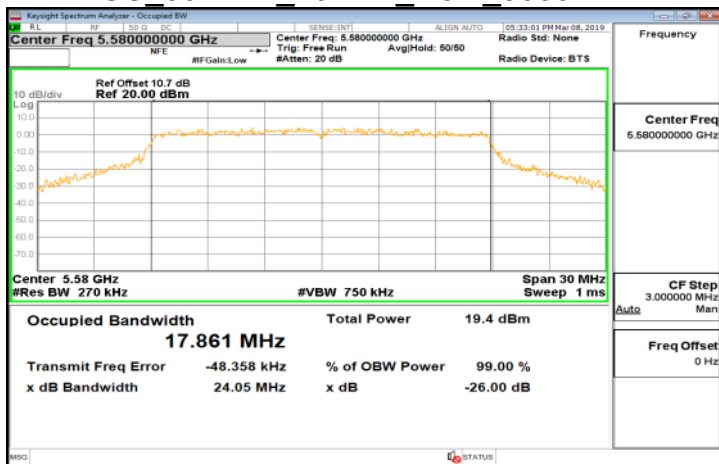
FCC 802.11n 20MHz Main 5500MHz



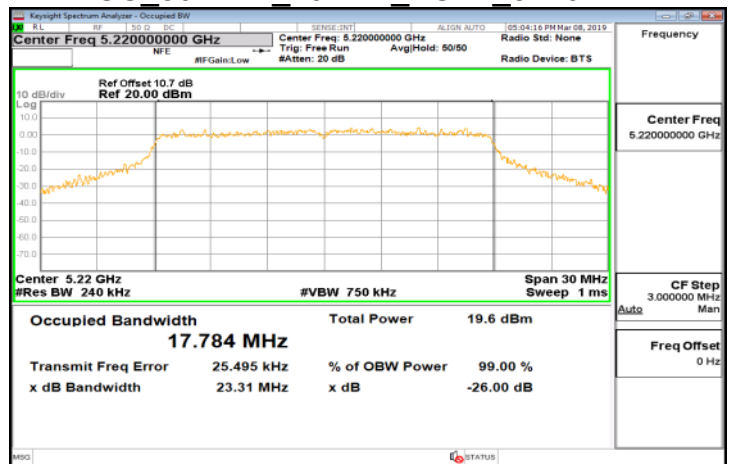
FCC 802.11n 20MHz AUX1 5180MHz



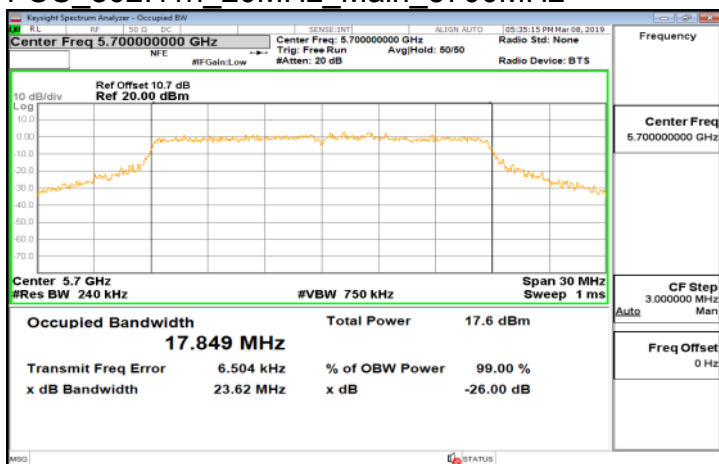
FCC 802.11n 20MHz Main 5580MHz



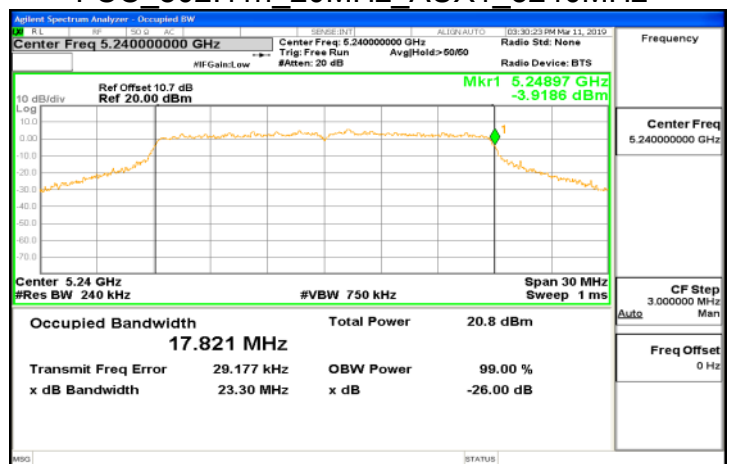
FCC 802.11n 20MHz AUX1 5220MHz



FCC 802.11n 20MHz Main 5700MHz



FCC 802.11n 20MHz AUX1 5240MHz

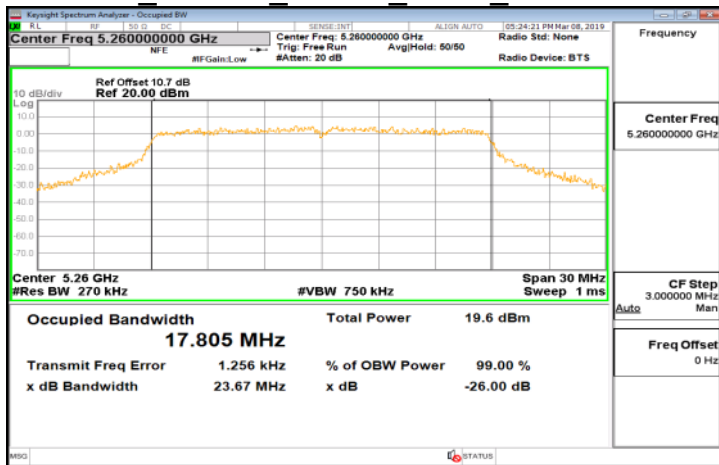


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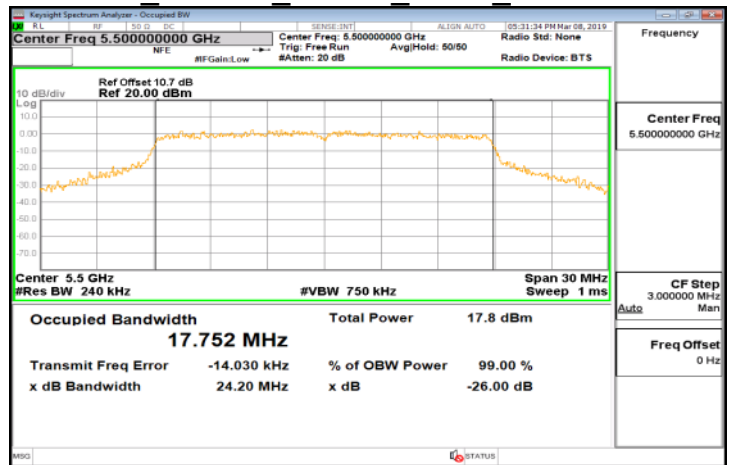
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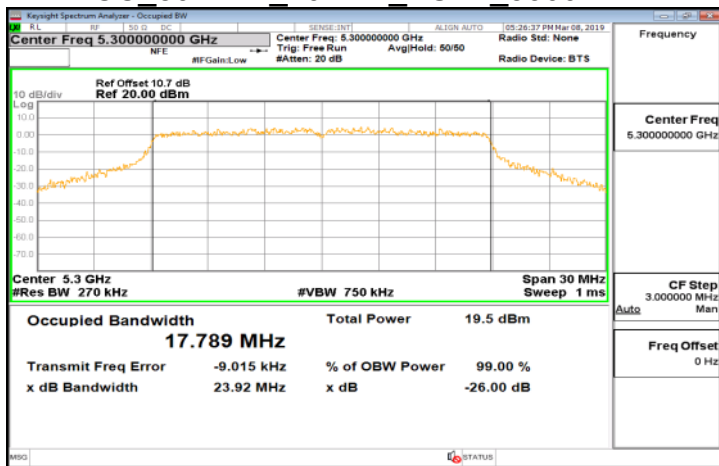
FCC 802.11n 20MHz AUX1 5260MHz



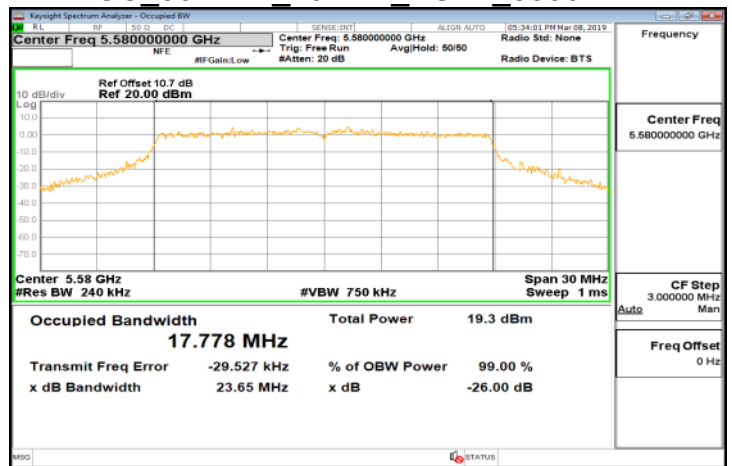
FCC 802.11n 20MHz AUX1 5500MHz



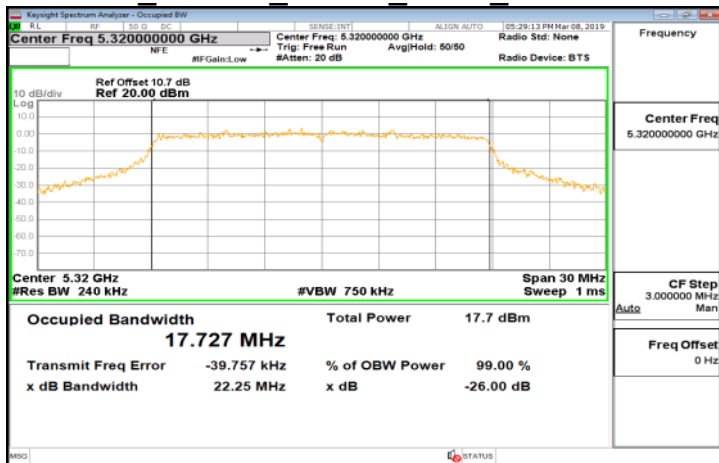
FCC 802.11n 20MHz AUX1 5300MHz



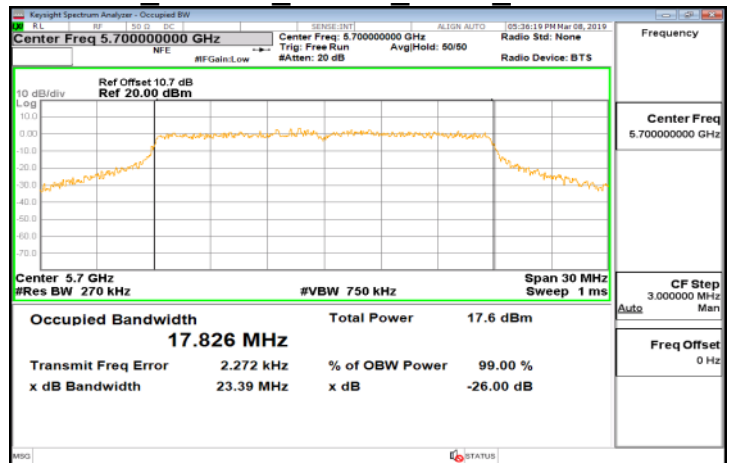
FCC 802.11n 20MHz AUX1 5580MHz



FCC 802.11n 20MHz AUX1 5320MHz



FCC 802.11n 20MHz AUX1 5700MHz

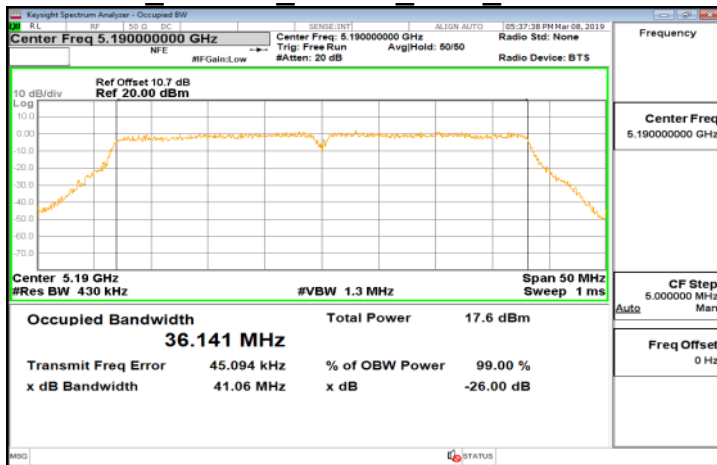


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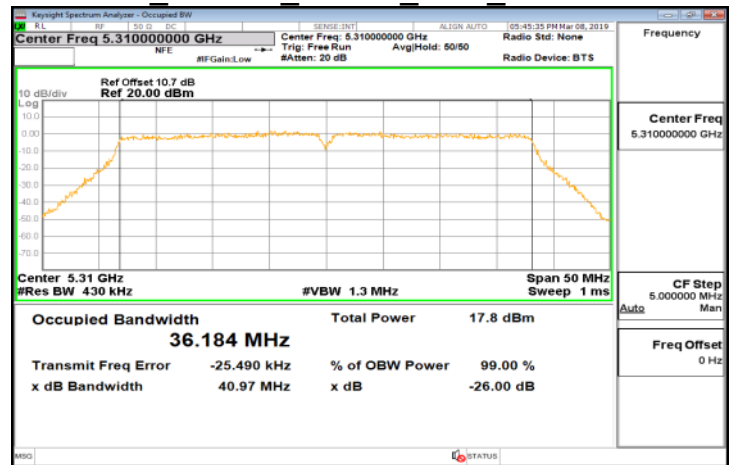
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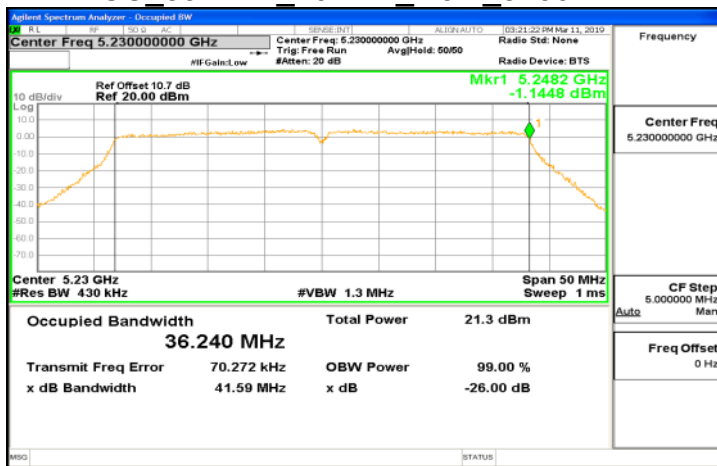
FCC 802.11n 40MHz Main 5190MHz



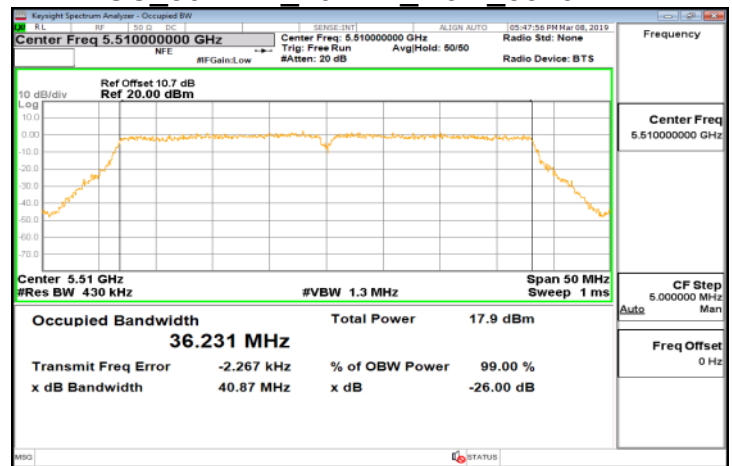
FCC 802.11n 40MHz Main 5310MHz



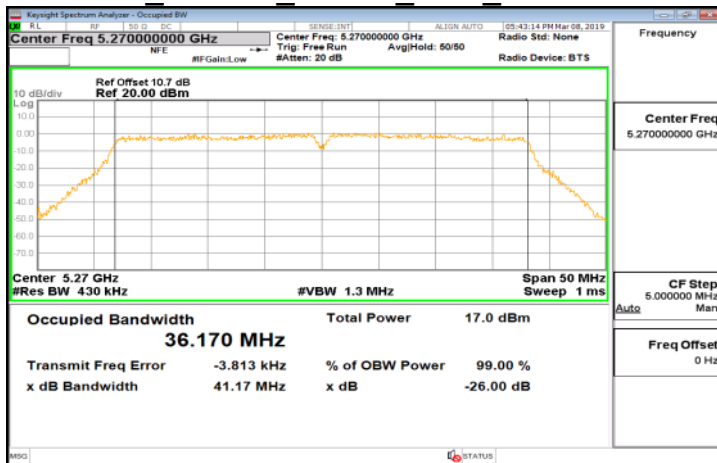
FCC 802.11n 40MHz Main 5230MHz



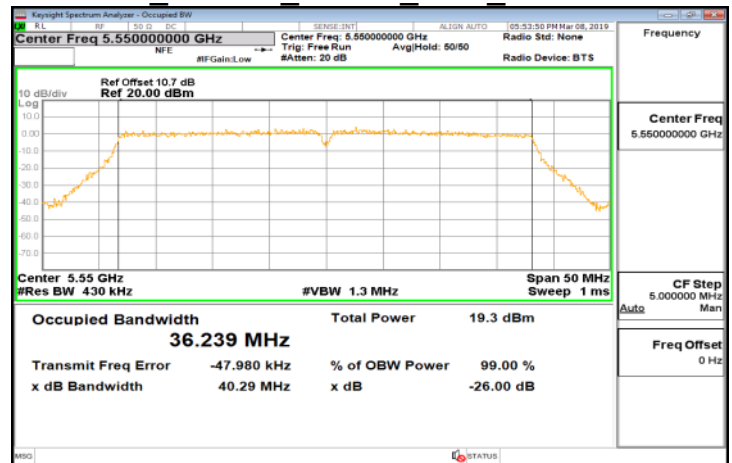
FCC 802.11n 40MHz Main 5510MHz



FCC 802.11n 40MHz Main 5270MHz



FCC 802.11n 40MHz Main 5550MHz

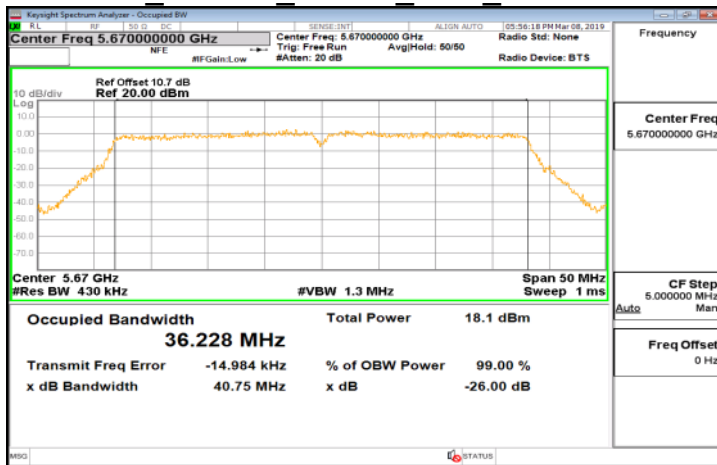


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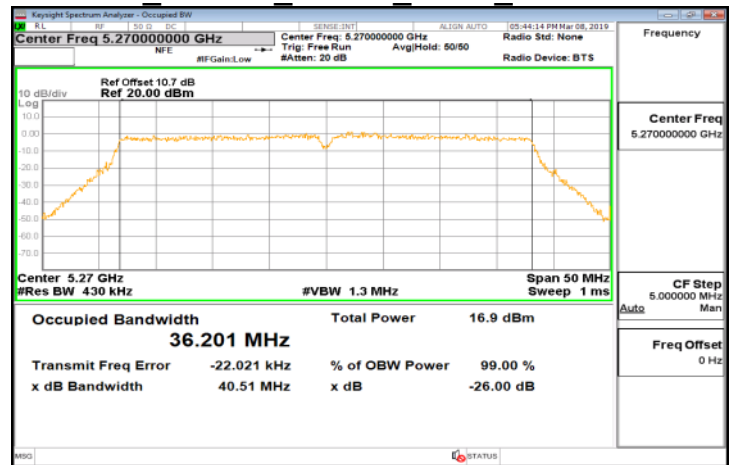
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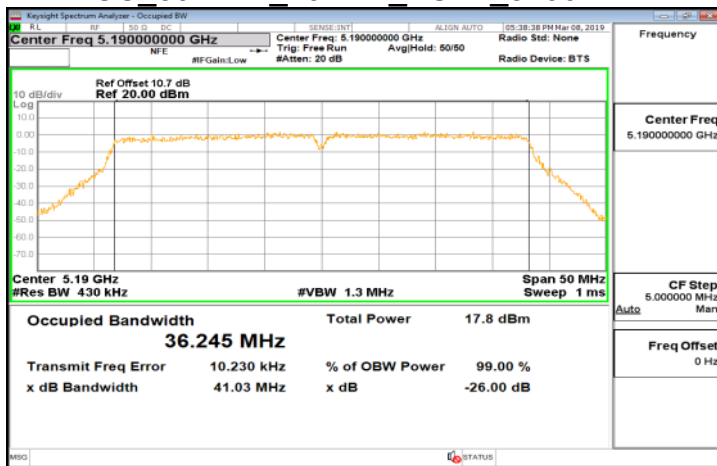
FCC 802.11n 40MHz Main 5670MHz



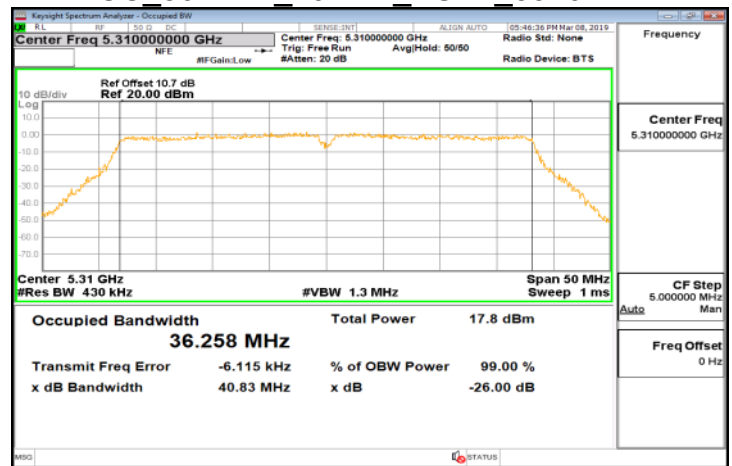
FCC 802.11n 40MHz AUX1 5270MHz



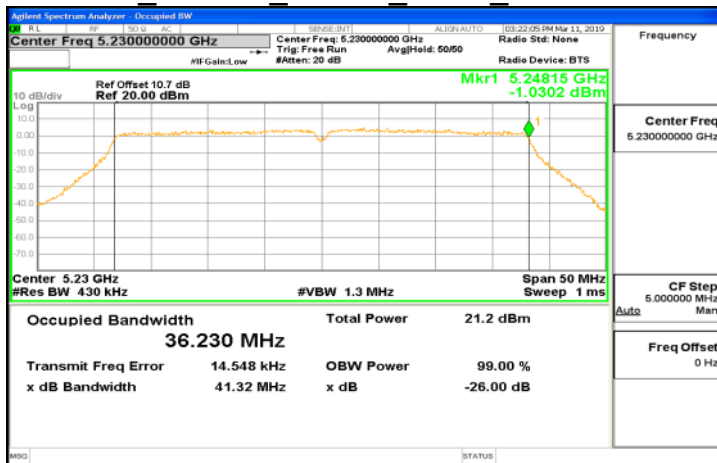
FCC 802.11n 40MHz AUX1 5190MHz



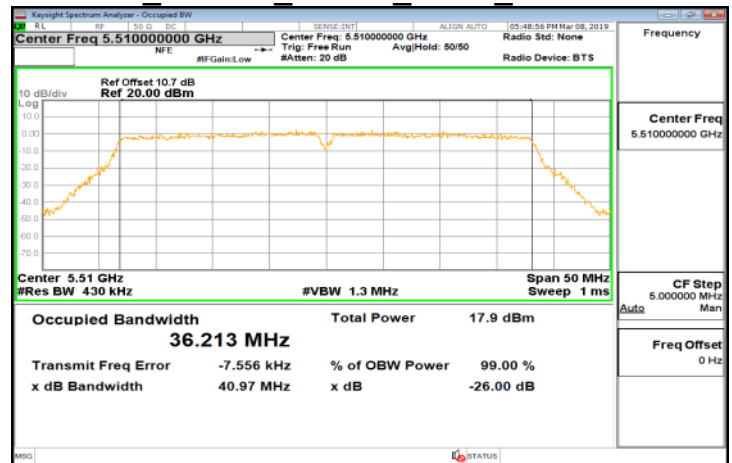
FCC 802.11n 40MHz AUX1 5310MHz



FCC 802.11n 40MHz AUX1 5230MHz



FCC 802.11n 40MHz AUX1 5510MHz

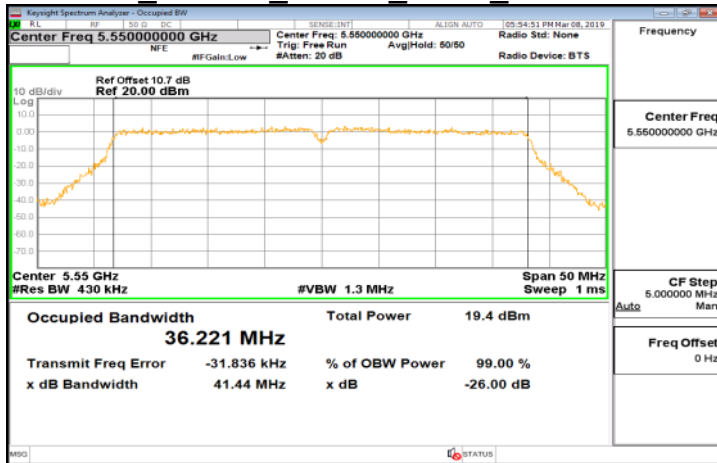


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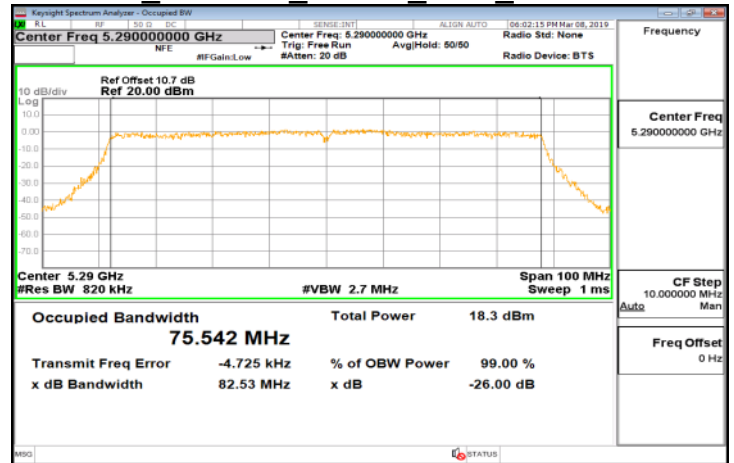
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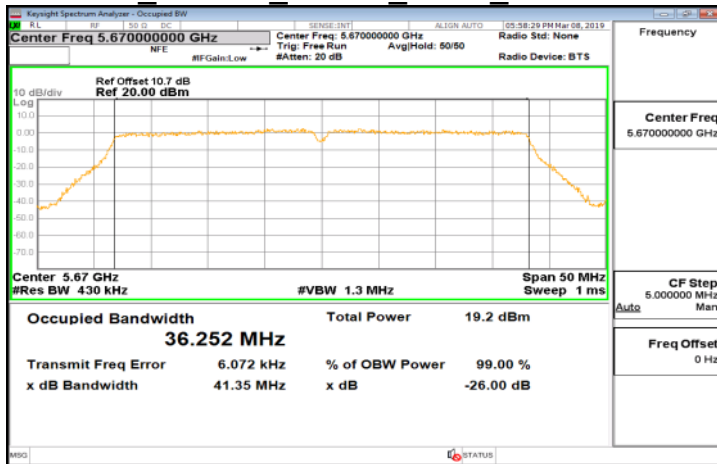
FCC 802.11n 40MHz AUX1 5550MHz



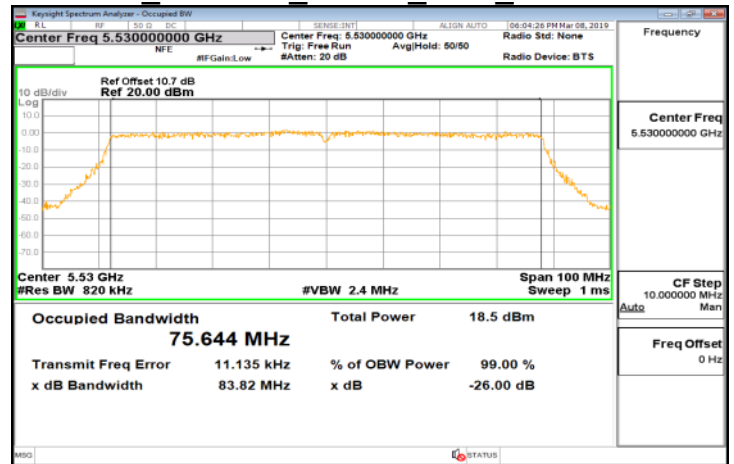
FCC 802.11ac 80MHz Main 5290MHz



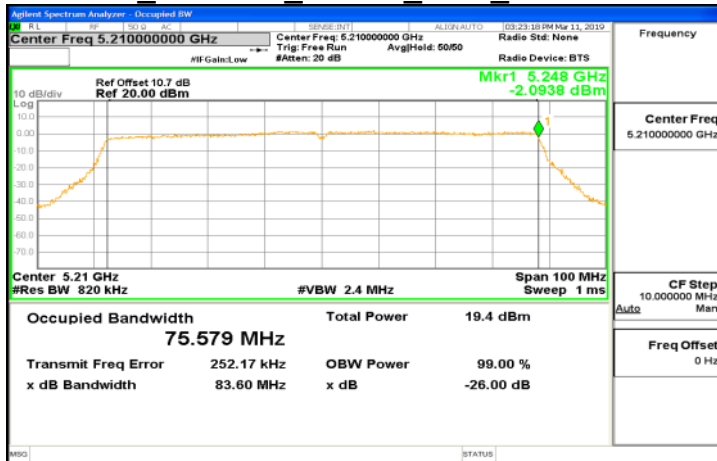
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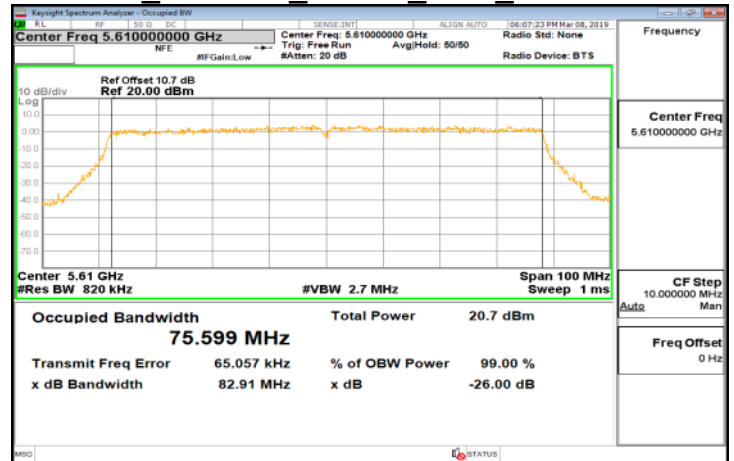
FCC 802.11ac 80MHz Main 5530MHz



FCC 802.11ac 80MHz Main 5210MHz



FCC 802.11ac 80MHz Main 5610MHz

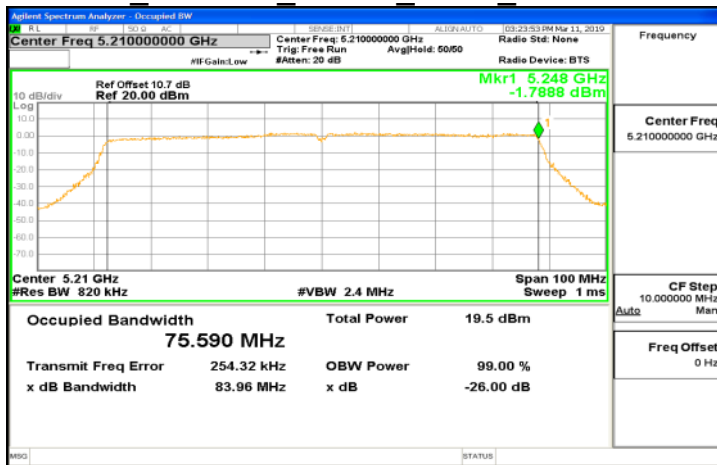


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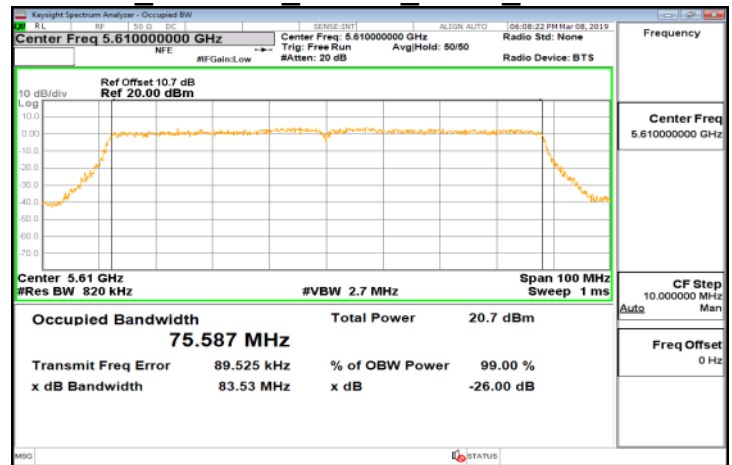
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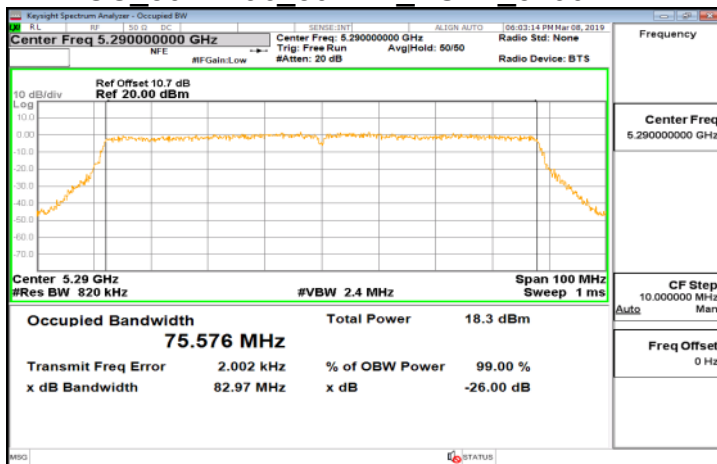
FCC 802.11ac 80MHz AUX1 5210MHz



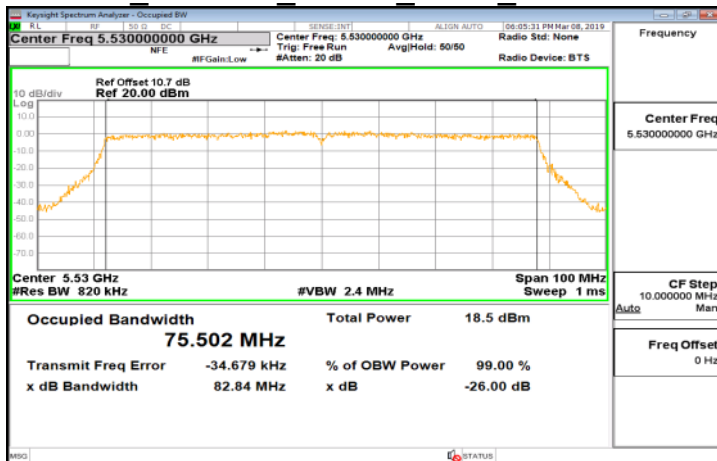
FCC 802.11ac 80MHz AUX1 5610MHz



FCC 802.11ac 80MHz AUX1 5290MHz



FCC 802.11ac 80MHz AUX1 5530MHz



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	1 Watt(30dBm)
		Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√	Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)
If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.			

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

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

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

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

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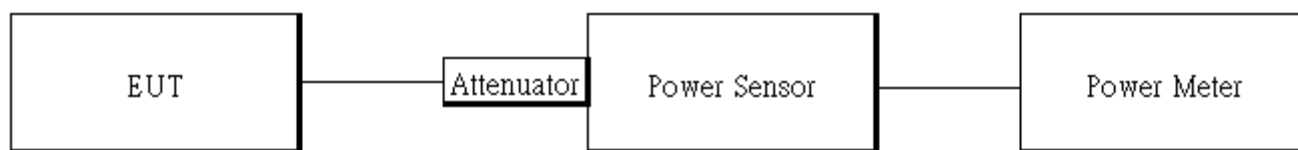
9.2 Measurement Procedure

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

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1242004	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207365	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207368	10/24/2018	10/23/2019
DC Power Supply	Agilent	E3640A	KR93300208	08/15/2018	08/14/2019
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020

9.4 Test Set-up



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9.5 Measurement Result

802.11a_2Tx

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	6	11.96	11.82	14.98	31.485	23.98	PASS
44	5220	6	13.64	13.62	16.72	46.995	23.98	PASS
48	5240	6	13.95	13.54	16.84	48.310	23.98	PASS
52	5260	6	13.72	13.86	16.88	48.765	23.98 or 11+10log(B) = 24.46	PASS
60	5300	6	13.52	13.8	16.75	47.345	23.98 or 11+10log(B) = 24.56	PASS
64	5320	6	11.3	11.79	14.64	29.123	23.98 or 11+10log(B) = 24.55	PASS
100	5500	6	11.87	11.24	14.66	29.221	23.98 or 11+10log(B) = 24.62	PASS
116	5580	6	13.55	13.52	16.63	45.978	23.98 or 11+10log(B) = 24.69	PASS
140	5700	6	11.72	11.94	14.92	31.059	23.98 or 11+10log(B) = 24.65	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	11.84	11.62	14.83	30.405	23.98	PASS
44	5220	MCS8	13.76	13.94	16.95	49.533	23.98	PASS
48	5240	MCS8	13.62	14.12	16.98	49.834	23.98	PASS
52	5260	MCS8	13.72	13.94	16.93	49.311	23.98 or 11+10log(B) = 24.67	PASS
60	5300	MCS8	13.68	13.88	16.88	48.744	23.98 or 11+10log(B) = 24.74	PASS
64	5320	MCS8	11.74	11.95	14.94	31.220	23.98 or 11+10log(B) = 24.47	PASS
100	5500	MCS8	12.16	11.57	14.97	31.427	23.98 or 11+10log(B) = 24.71	PASS
116	5580	MCS8	13.76	13.86	16.91	49.072	23.98 or 11+10log(B) = 24.74	PASS
140	5700	MCS8	11.72	11.68	14.80	30.186	23.98 or 11+10log(B) = 24.69	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	11.57	11.48	14.71	29.593	23.98	PASS
46	5230	MCS8	13.69	13.87	16.97	49.746	23.98	PASS
54	5270	MCS8	13.61	13.72	16.85	48.440	23.98 or 11+10log(B) = 27.08	PASS
62	5310	MCS8	11.73	11.82	14.96	31.347	23.98 or 11+10log(B) = 27.11	PASS
102	5510	MCS8	11.89	11.39	14.83	30.436	23.98 or 11+10log(B) = 27.11	PASS
110	5550	MCS8	13.73	13.49	16.80	47.845	23.98 or 11+10log(B) = 27.05	PASS
134	5670	MCS8	11.96	11.37	14.86	30.632	23.98 or 11+10log(B) = 27.10	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	11.24	11.48	14.37	27.365	23.98	PASS
58	5290	MCS0	11.21	11.61	14.42	27.701	23.98 or 11+10log(B) = 30.17	PASS
106	5530	MCS0	11.62	11.58	14.61	28.909	23.98 or 11+10log(B) = 30.18	PASS
122	5610	MCS0	13.31	13.37	16.35	43.156	23.98 or 11+10log(B) = 30.19	PASS

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10. POWER SPECTRAL DENSITY

10.1 Standard Applicable

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.			

Note:

As per FCC KDB 662911 D01

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

(i) If transmit signals are correlated, then Directional gain

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

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

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

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10.2 Measurement Procedure

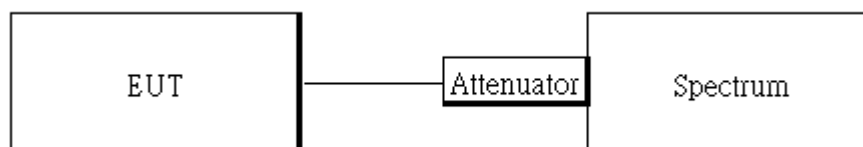
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
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.
8. 802.11n MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

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

10.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	KR93300208	08/15/2018	08/14/2019
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/09/2018	04/08/2019
Thermostatic/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020

10.4 Test Set-up



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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	1.49	0.08	1.57	11	-9.43
5220	2.42	0.08	2.50	11	-8.50
5240	2.62	0.08	2.70	11	-8.30
5260	2.72	0.08	2.80	11	-8.20
5300	3.11	0.08	3.19	11	-7.81
5320	1.06	0.08	1.14	11	-9.86
5500	1.21	0.08	1.29	11	-9.71
5580	3.32	0.08	3.40	11	-7.60
5700	1.22	0.08	1.30	11	-9.70

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	2.77	0.09	2.86	11	-8.14
5220	5.18	0.09	5.27	11	-5.73
5240	4.84	0.09	4.93	11	-6.07
5260	4.54	0.09	4.63	11	-6.37
5300	4.78	0.09	4.87	11	-6.13
5320	2.54	0.09	2.63	11	-8.37
5500	1.88	0.09	1.97	11	-9.03
5580	3.62	0.09	3.71	11	-7.29
5700	2.63	0.09	2.72	11	-8.28

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	-1.35	0.18	-1.17	11	-12.17
5230	2.1	0.18	2.28	11	-8.72
5270	-2.25	0.18	-2.07	11	-13.07
5310	-1.45	0.18	-1.27	11	-12.27
5510	-0.91	0.18	-0.73	11	-11.73
5550	0.53	0.18	0.71	11	-10.29
5670	-0.22	0.18	-0.04	11	-11.04

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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	-5.09	0.00	-5.09	11	-16.09
5290	-3.65	0.00	-3.65	11	-14.65
5530	-5.18	0.00	-5.18	11	-16.18
5610	-4.05	0.00	-4.05	11	-15.05

Note:

Cable Loss=

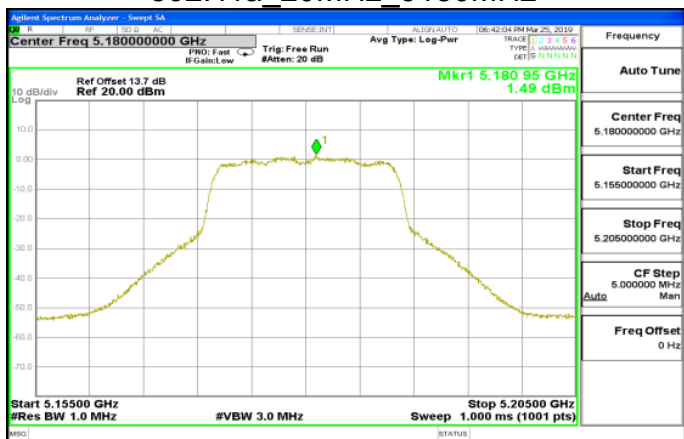
13.7 dB

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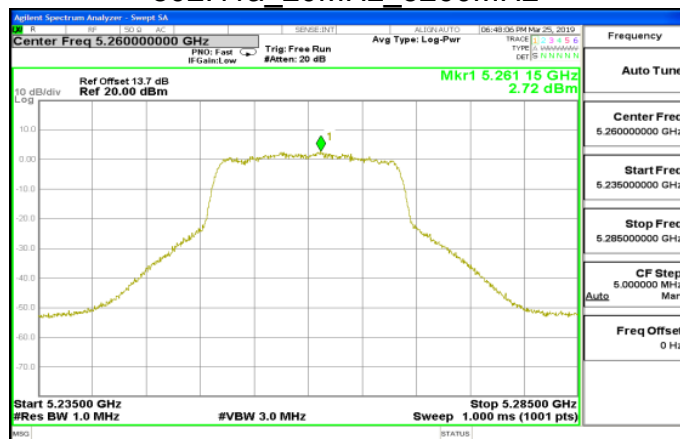
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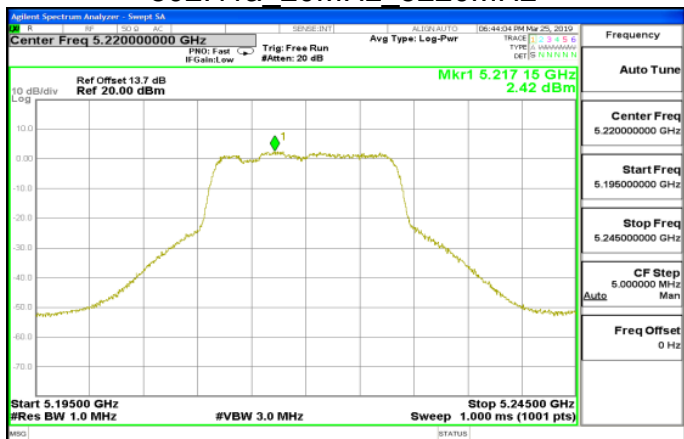
802.11a 20MHz 5180MHz



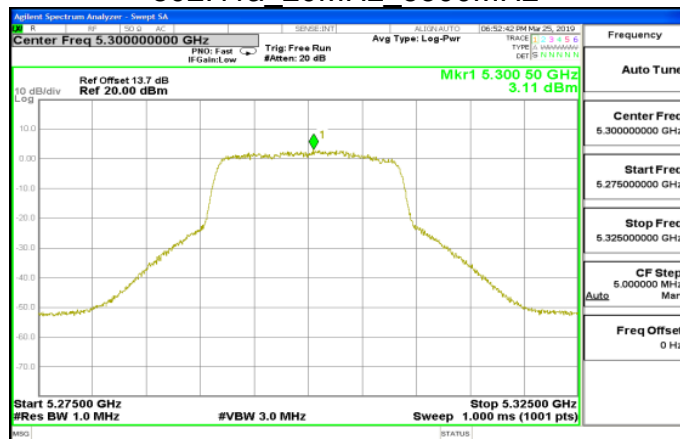
802.11a 20MHz 5260MHz



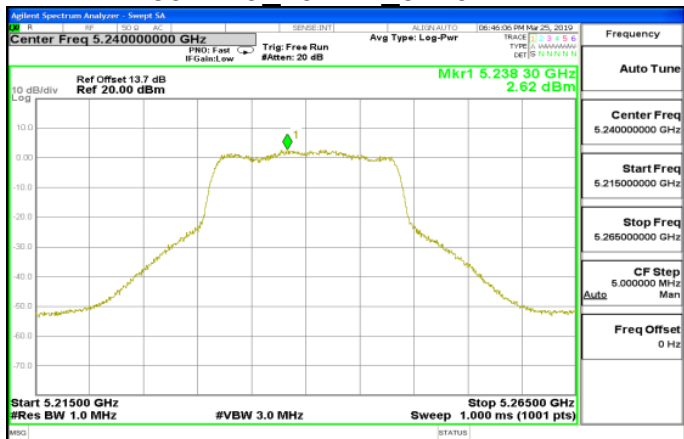
802.11a 20MHz 5220MHz



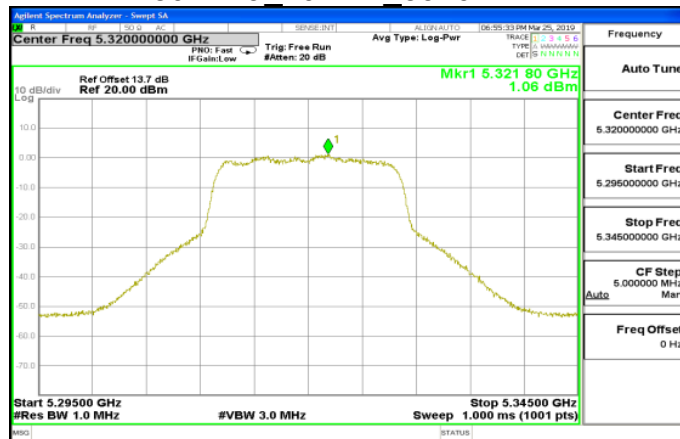
802.11a 20MHz 5300MHz



802.11a 20MHz 5240MHz



802.11a 20MHz 5320MHz

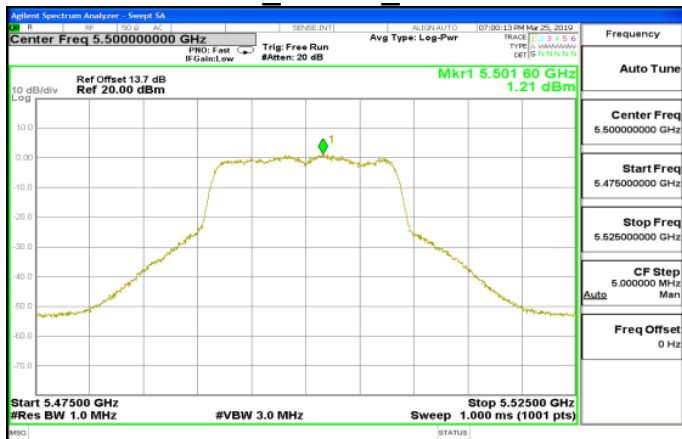


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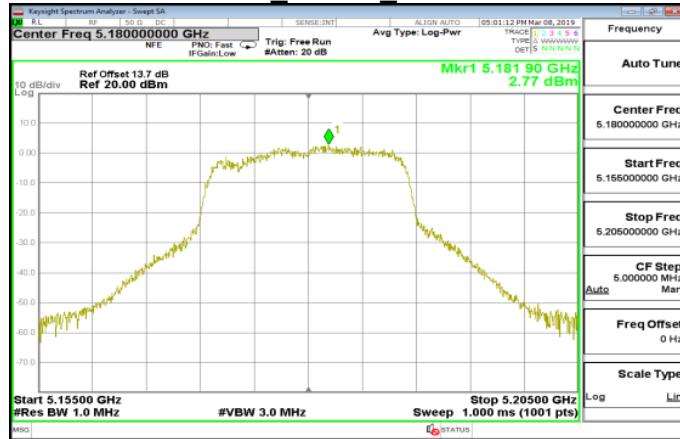
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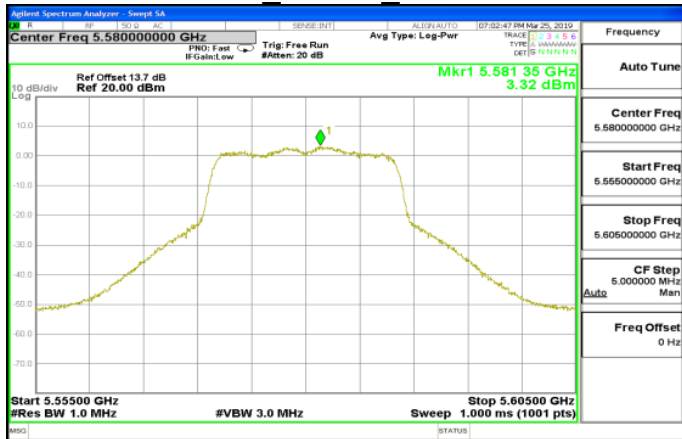
802.11a 20MHz 5500MHz



802.11n 20MHz 5180MHz



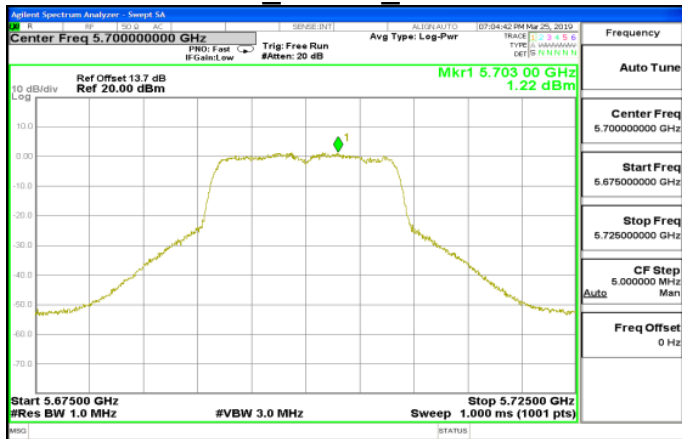
802.11a 20MHz 5580MHz



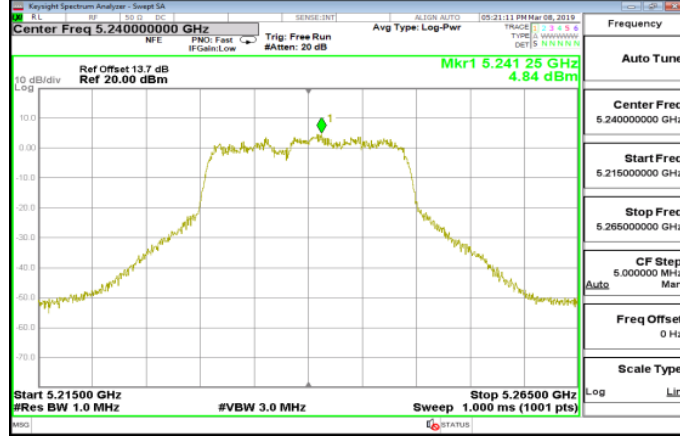
802.11n 20MHz 5220MHz



802.11a 20MHz 5700MHz



802.11n 20MHz 5240MHz

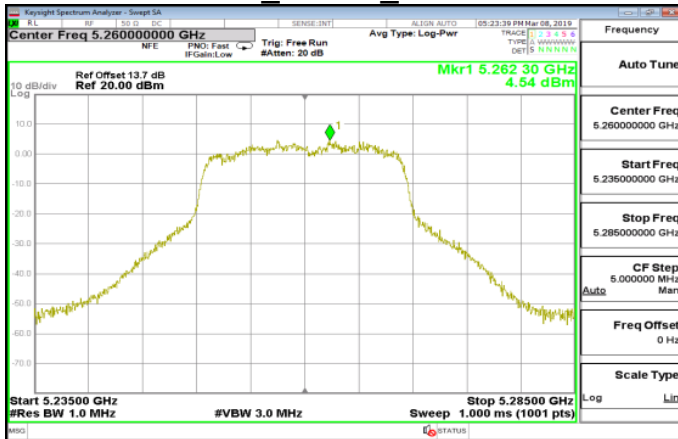


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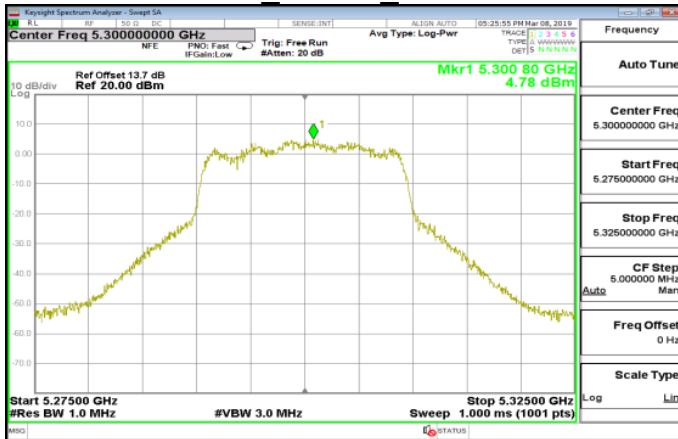
802.11n 20MHz 5260MHz



802.11n 20MHz 5500MHz



802.11n 20MHz 5300MHz



802.11n 20MHz 5580MHz



802.11n 20MHz 5320MHz



802.11n 20MHz 5700MHz



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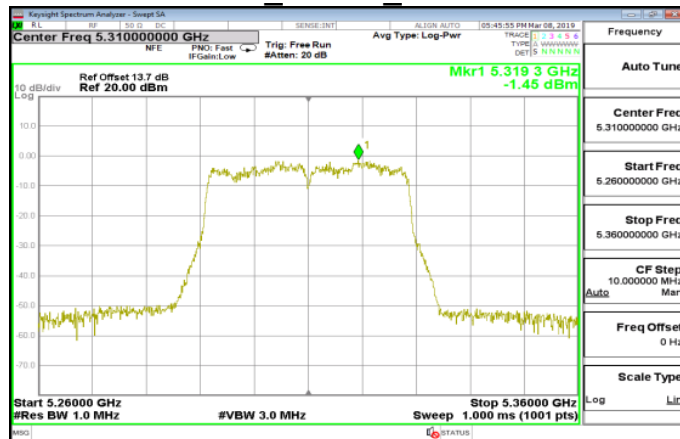
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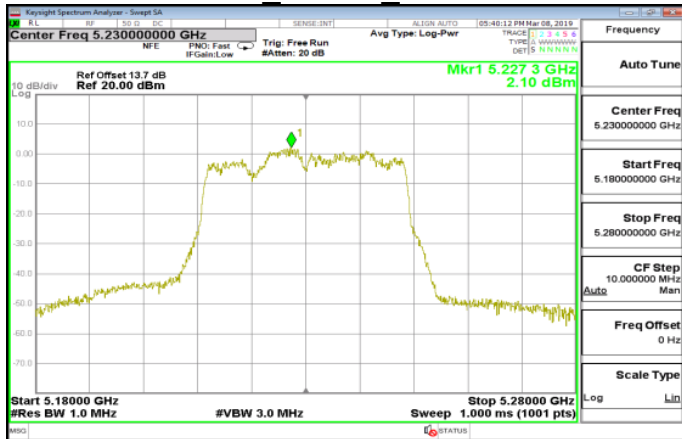
802.11n 40MHz 5190MHz



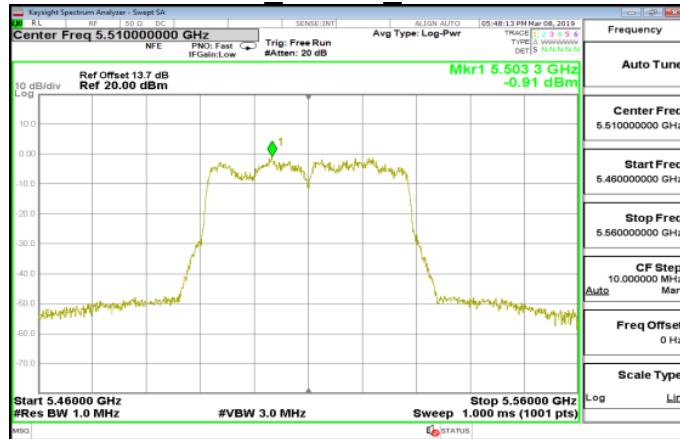
802.11n 40MHz 5310MHz



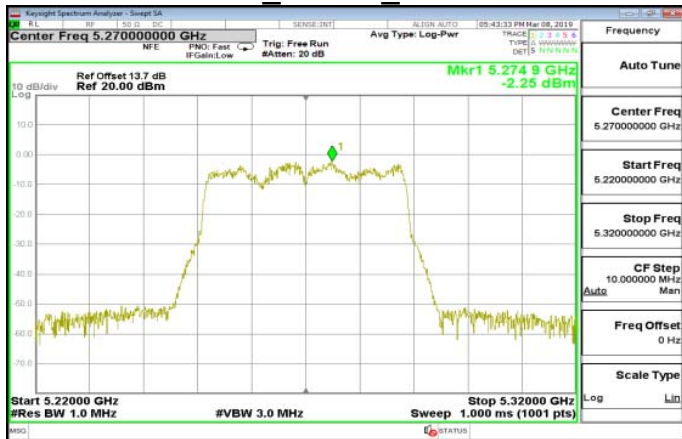
802.11n 40MHz 5230MHz



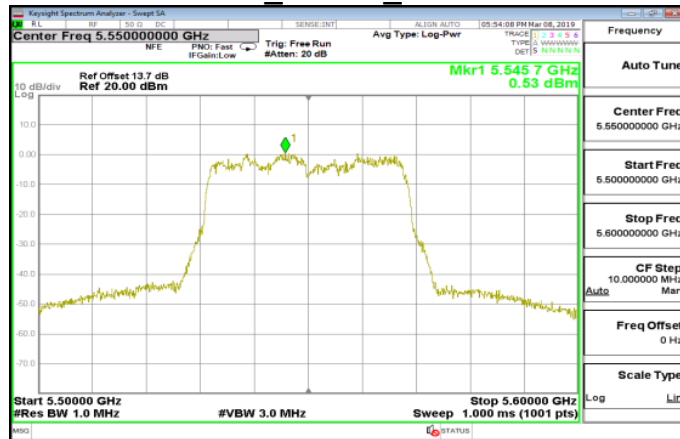
802.11n 40MHz 5510MHz



802.11n 40MHz 5270MHz



802.11n 40MHz 5550MHz

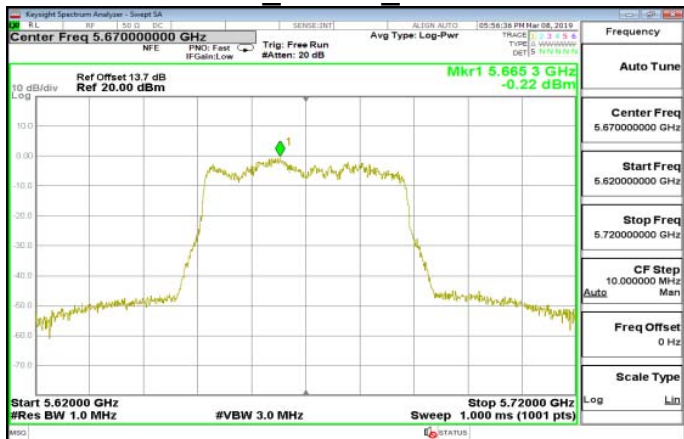


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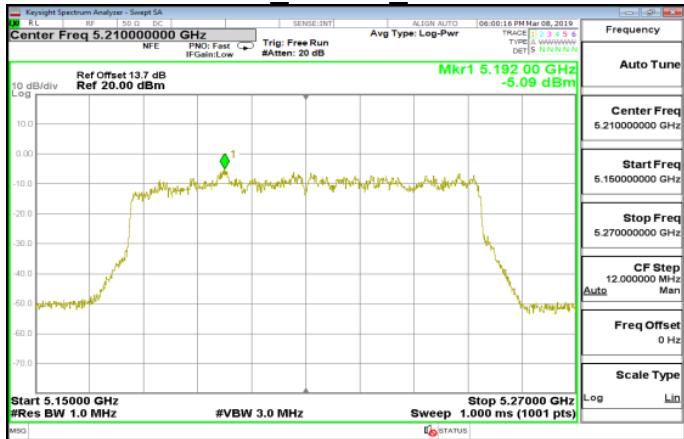
802.11n 40MHz 5670MHz



802.11ac 80MHz 5530MHz



802.11ac 80MHz 5210MHz



802.11ac 80MHz 5610MHz



802.11ac 80MHz 5290MHz



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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)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)(i)	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.

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

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

Note:

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

11.2 Measurement Equipment Used

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
High Pass Filter	WI	WHKX7.0/18 G-8SS	45	02/26/2019	02/25/2020
Horn Antenna	ETS LINDGREN	3116	00026370	12/26/2018	12/25/2019
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	MITEQ	AMF-6F-2604 00-40-8P	985646	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spec-trum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019
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.

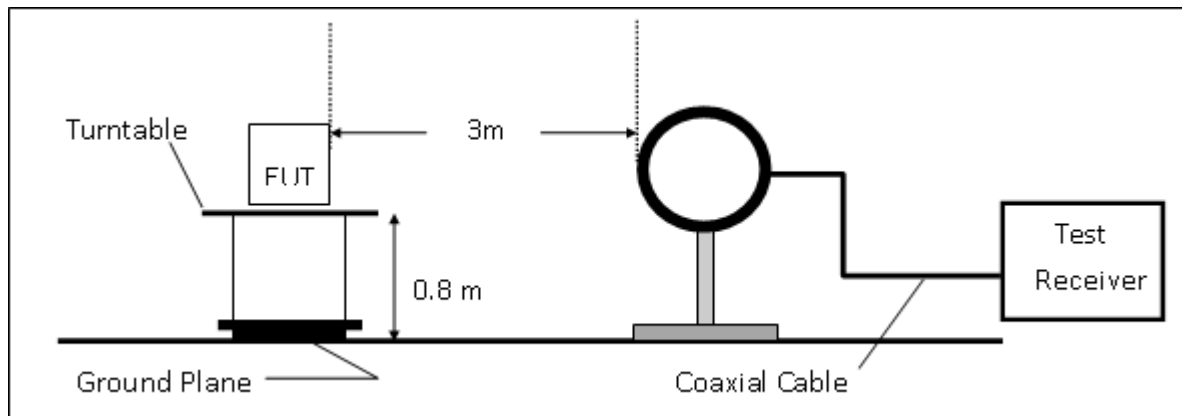
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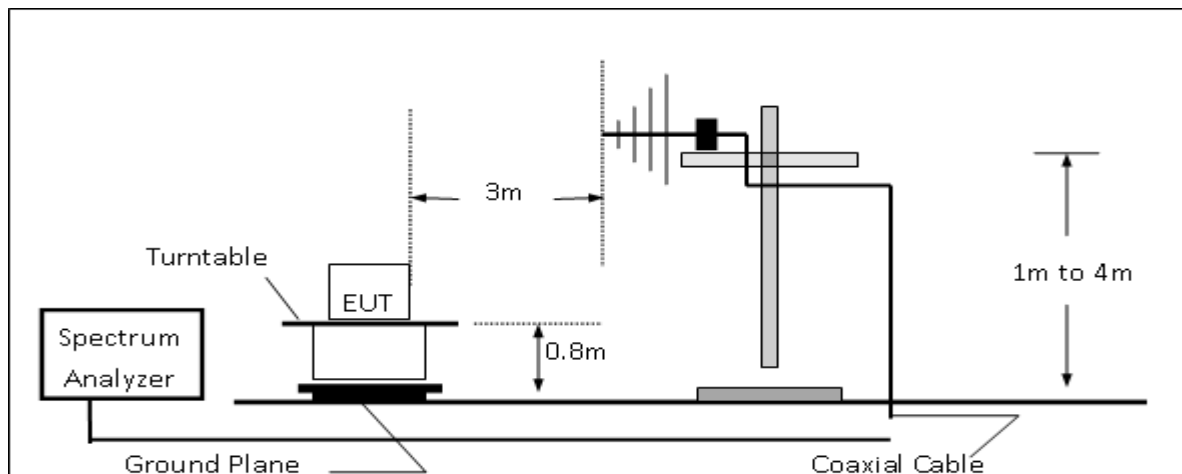
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11.3 Test SET-UP

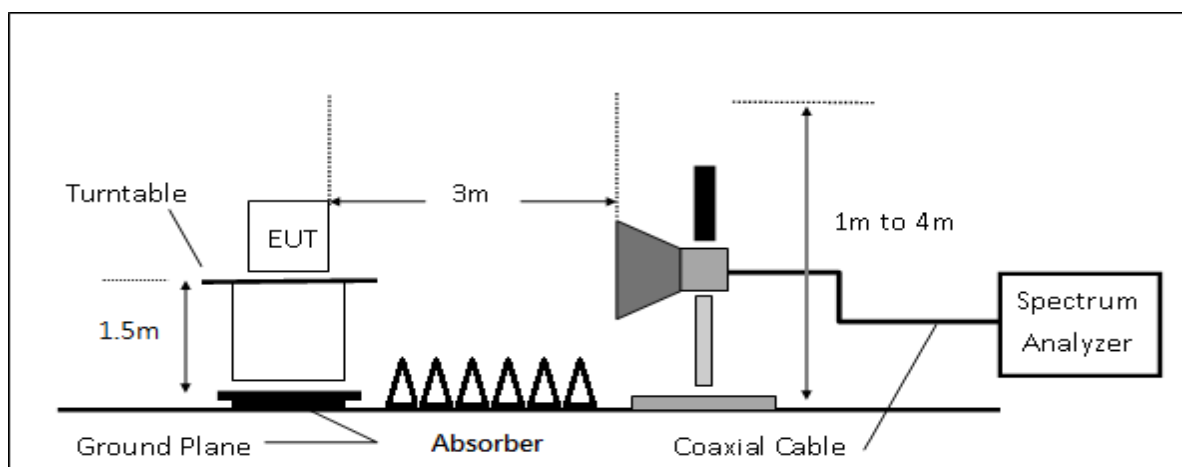
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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)

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) was not reported.

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11.7 Measurement Result

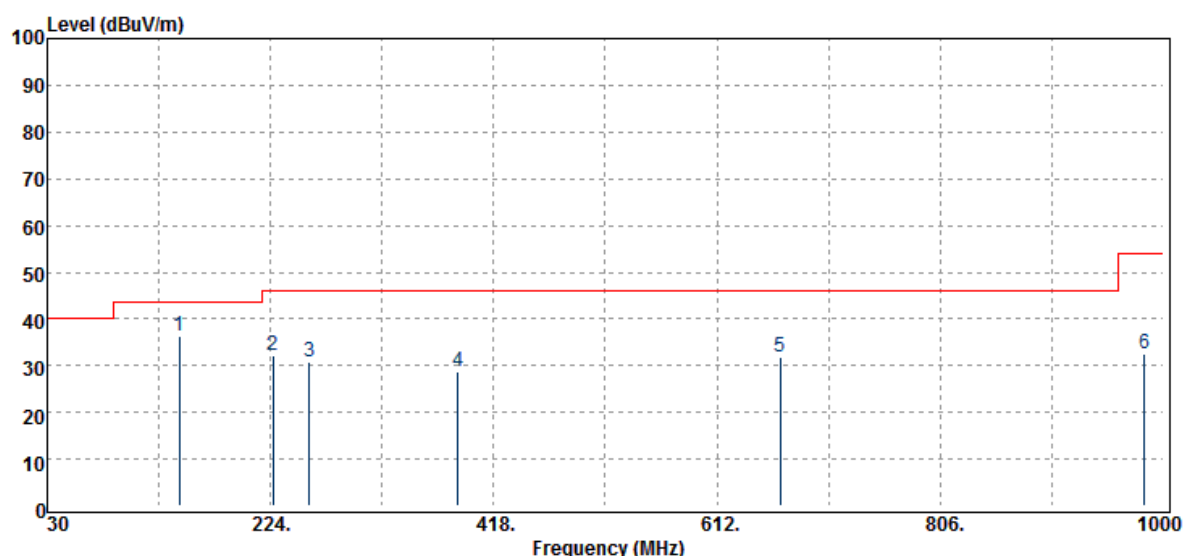
Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plan

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
144.46	Peak	45.73	-9.32	36.41	43.50	-7.09
225.94	Peak	42.59	-10.38	32.21	46.00	-13.79
257.95	Peak	40.11	-9.31	30.80	46.00	-15.20
386.96	Peak	34.17	-5.33	28.84	46.00	-17.16
667.29	Peak	30.86	1.04	31.90	46.00	-14.10
983.51	Peak	25.99	6.49	32.48	54.00	-21.52

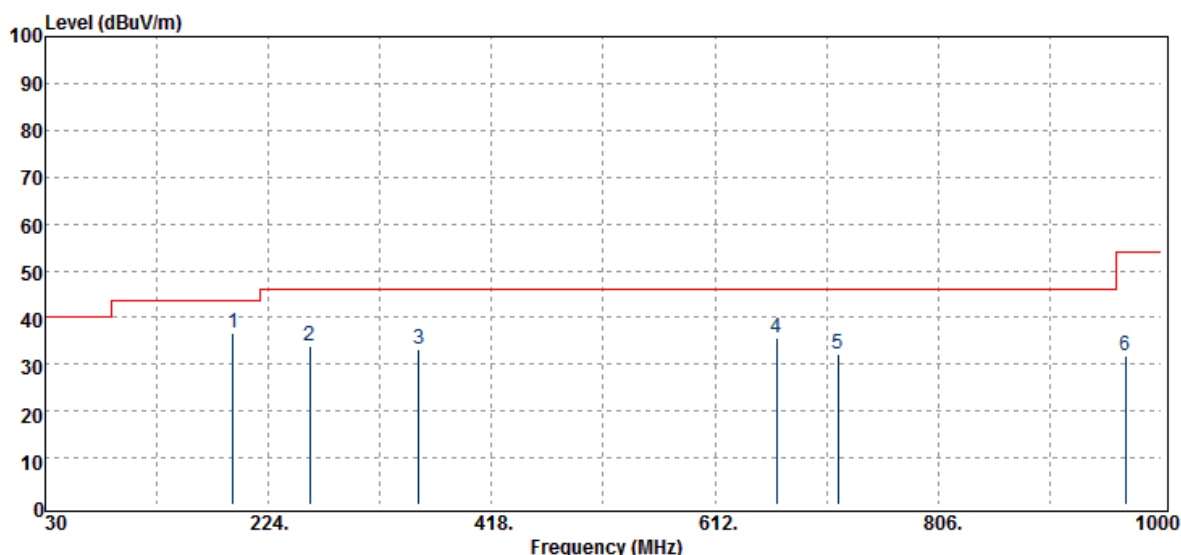
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Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plan

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
192.96	Peak	46.38	-9.82	36.56	43.50	-6.94
259.89	Peak	42.83	-9.09	33.74	46.00	-12.26
354.95	Peak	39.13	-5.94	33.19	46.00	-12.81
665.35	Peak	34.60	0.94	35.54	46.00	-10.46
718.70	Peak	31.07	1.28	32.35	46.00	-13.65
968.96	Peak	25.27	6.55	31.82	54.00	-22.18

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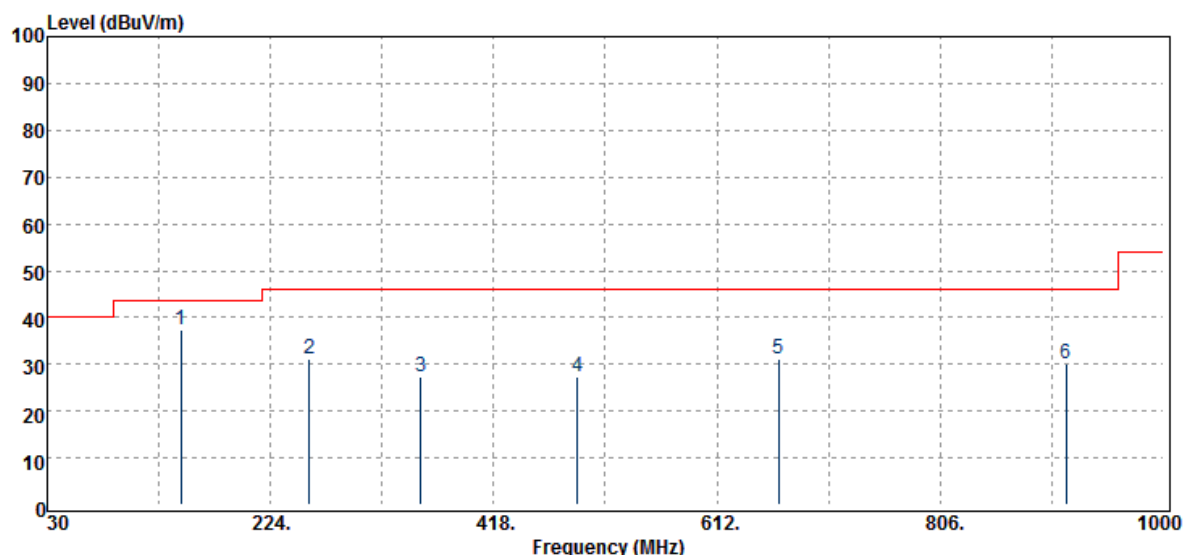
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802.11a 5250~5350 MHz

Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plan

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
146.40	Peak	46.79	-9.40	37.39	43.50	-6.11
257.95	Peak	40.30	-9.31	30.99	46.00	-15.01
354.95	Peak	33.39	-5.94	27.45	46.00	-18.55
490.75	Peak	29.69	-2.20	27.49	46.00	-18.51
665.35	Peak	30.35	0.94	31.29	46.00	-14.71
915.61	Peak	25.21	4.81	30.02	46.00	-15.98

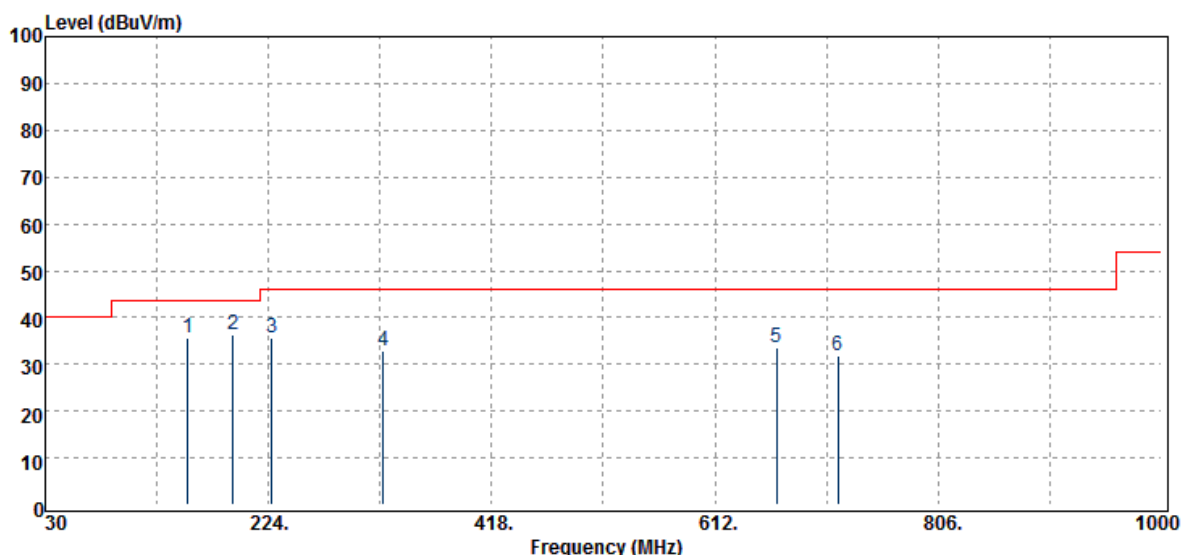
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plan

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
154.16	Peak	45.11	-9.41	35.70	43.50	-7.80
192.96	Peak	46.19	-9.82	36.37	43.50	-7.13
226.91	Peak	46.11	-10.31	35.80	46.00	-10.20
323.91	Peak	39.37	-6.59	32.78	46.00	-13.22
665.35	Peak	32.54	0.94	33.48	46.00	-12.52
718.70	Peak	30.60	1.28	31.88	46.00	-14.12

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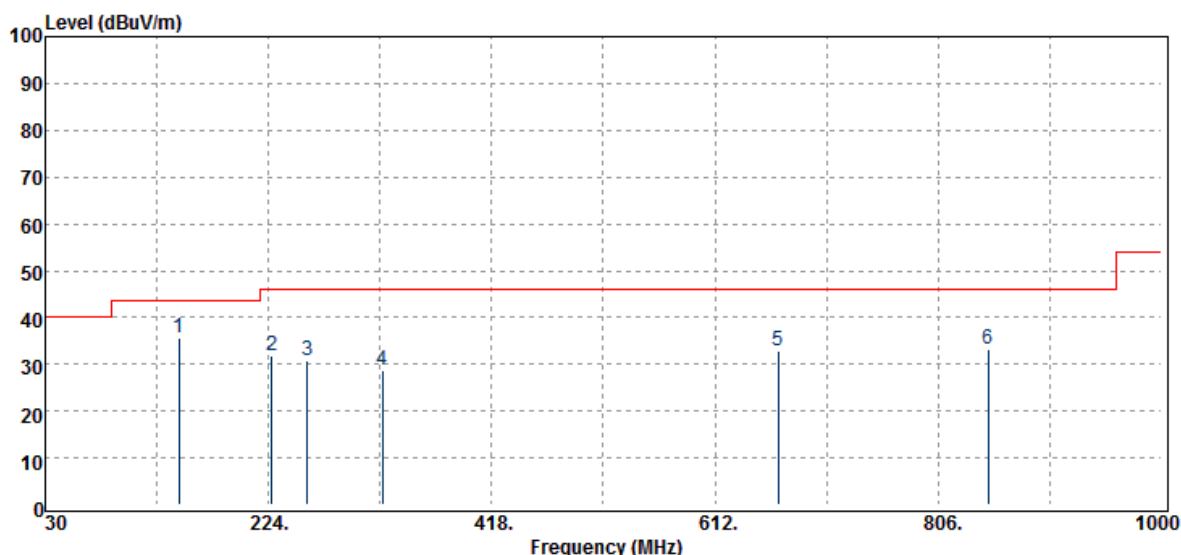
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802.11a, 5470~5725 MHz

Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plan

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
146.40	Peak	45.16	-9.40	35.76	43.50	-7.74
226.91	Peak	42.12	-10.31	31.81	46.00	-14.19
257.95	Peak	39.93	-9.31	30.62	46.00	-15.38
322.94	Peak	35.51	-6.62	28.89	46.00	-17.11
667.29	Peak	31.71	1.04	32.75	46.00	-13.25
849.65	Peak	29.00	4.16	33.16	46.00	-12.84

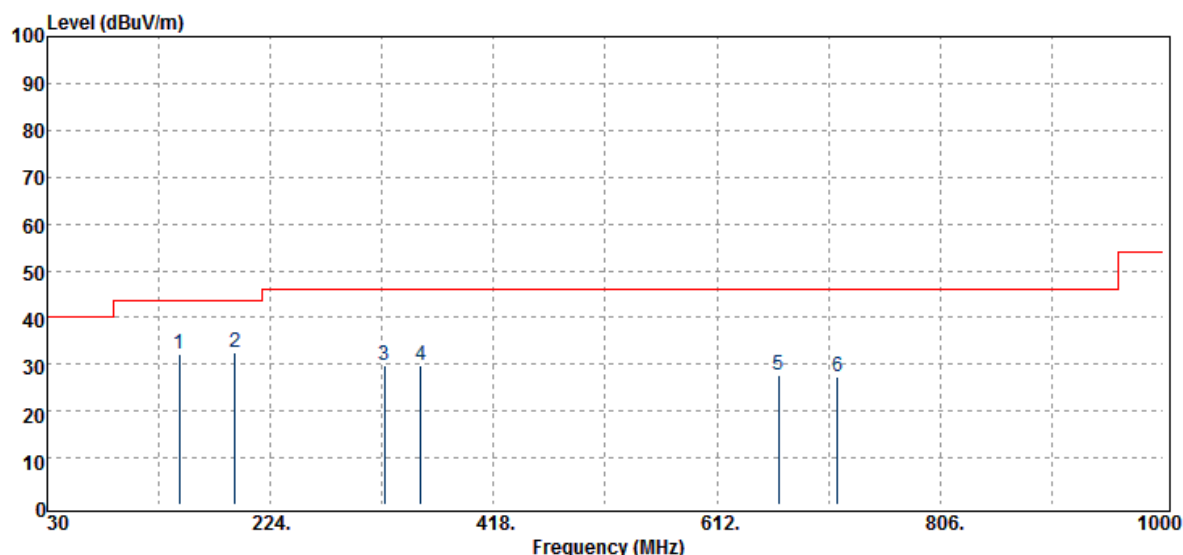
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plan

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
144.46	Peak	43.82	-11.53	32.29	43.50	-11.21
192.96	Peak	44.82	-12.28	32.54	43.50	-10.96
322.94	Peak	39.35	-9.74	29.61	46.00	-16.39
354.95	Peak	38.94	-9.30	29.64	46.00	-16.36
665.35	Peak	31.77	-3.94	27.83	46.00	-18.17
716.76	Peak	30.44	-3.17	27.27	46.00	-18.73

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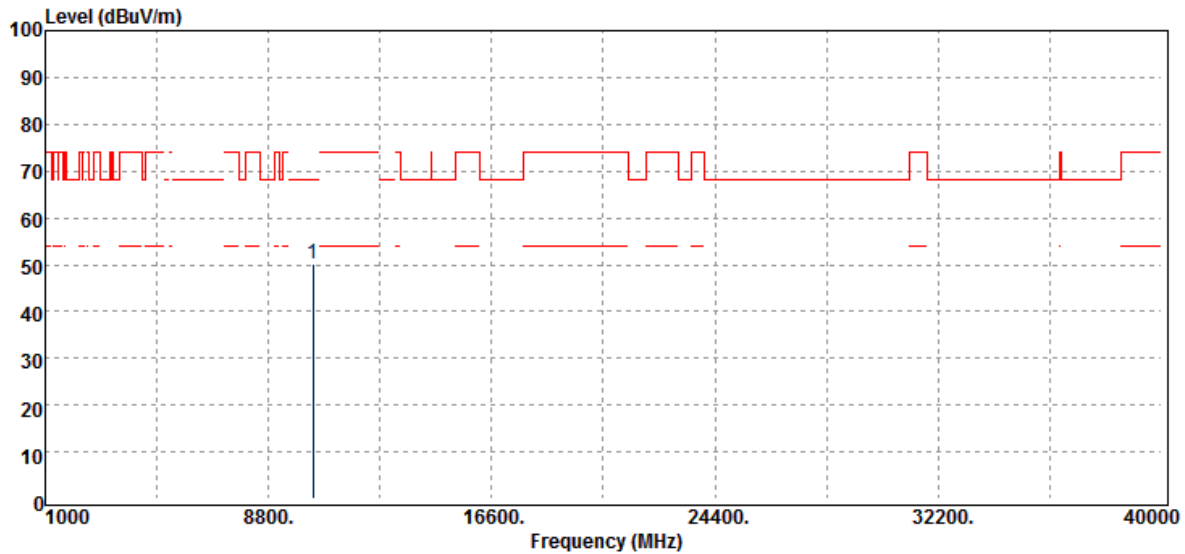
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Above 1GHz Worst-Case Data:

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

Operation Band	:802.11aB1	Test Date	:2019-03-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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	35.77	14.41	50.18	74.00	-23.82

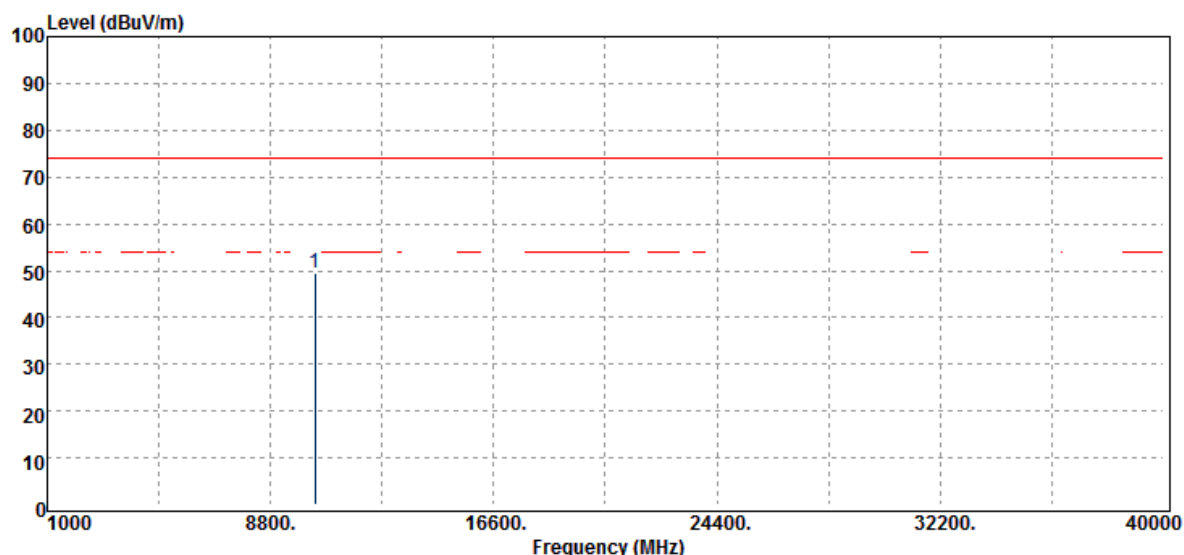
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Operation Band :802.11aB1
Fundamental Frequency :5180 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	35.03	14.41	49.44	74.00	-24.56

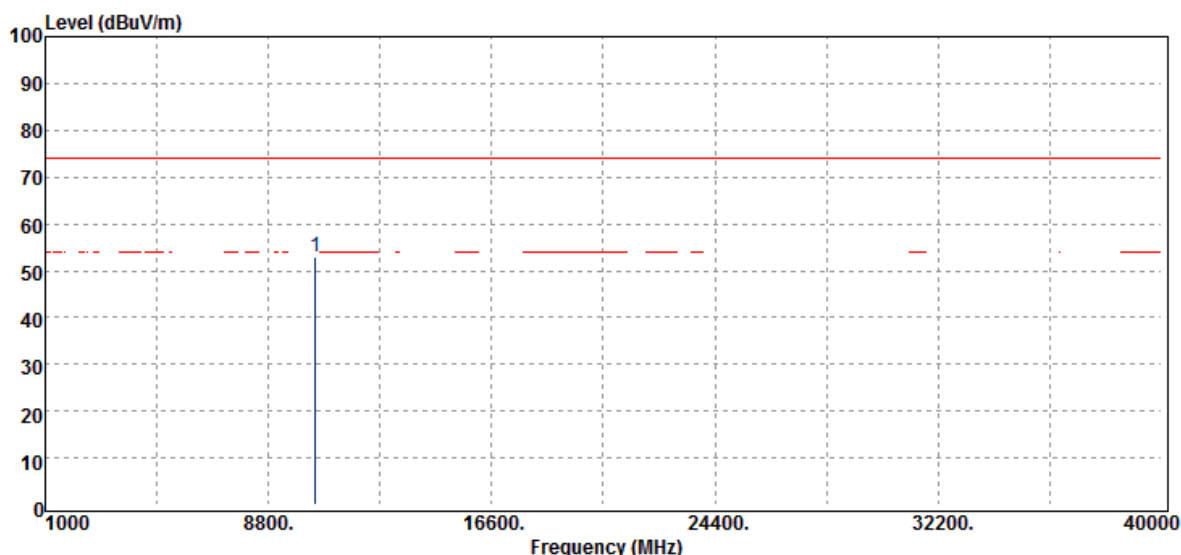
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Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	Peak	37.48	15.58	53.06	74.00	-20.94

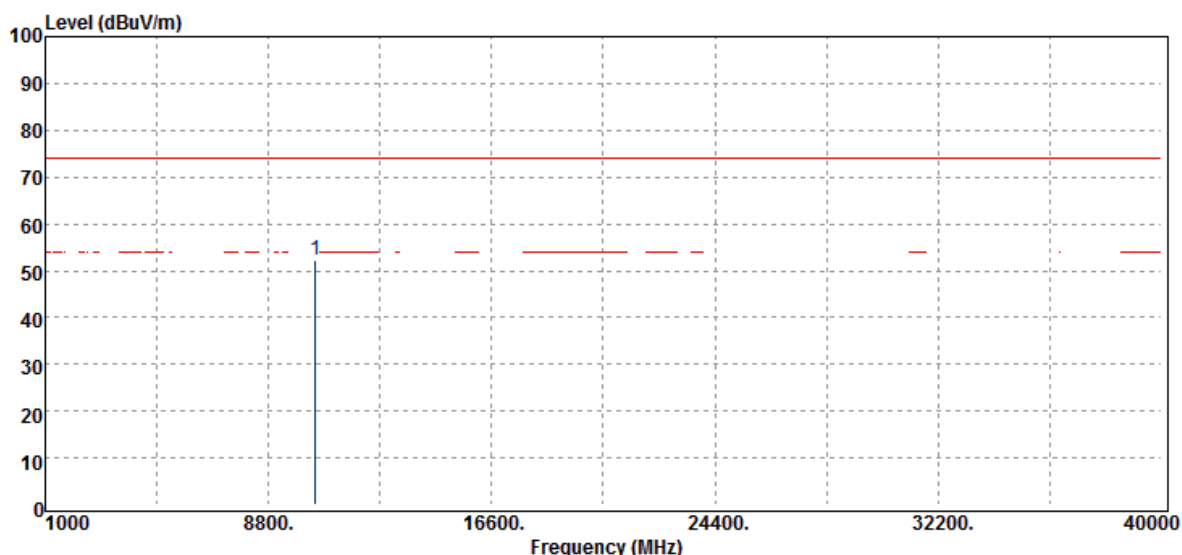
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Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



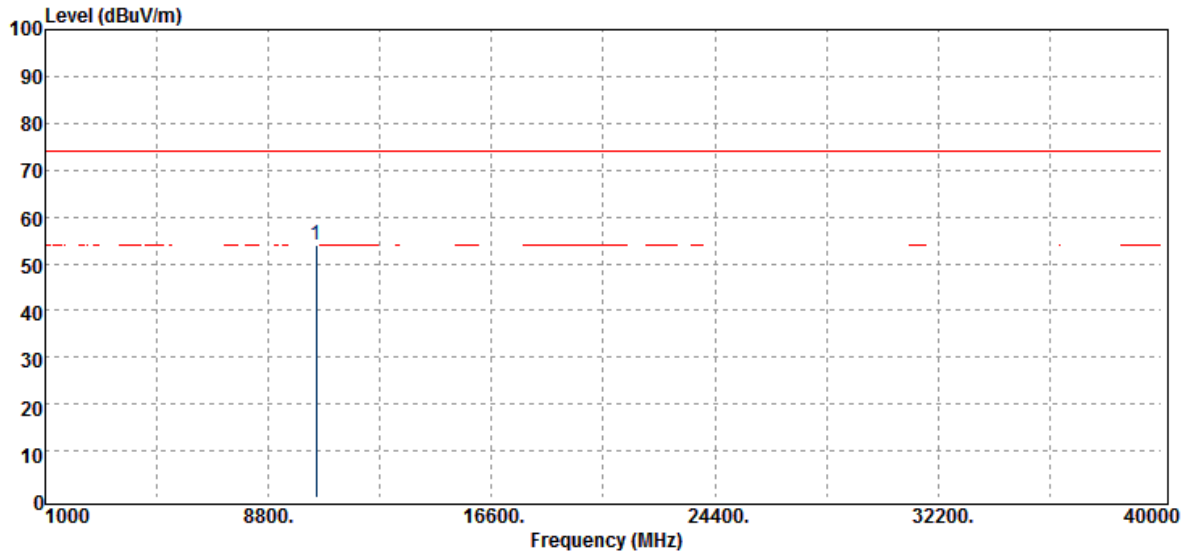
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	Peak	36.80	15.58	52.38	74.00	-21.62

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Operation Band	:802.11aB1	Test Date	:2019-03-09
Fundamental Frequency	:5240 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	Peak	37.50	16.48	53.98	68.20	-14.22

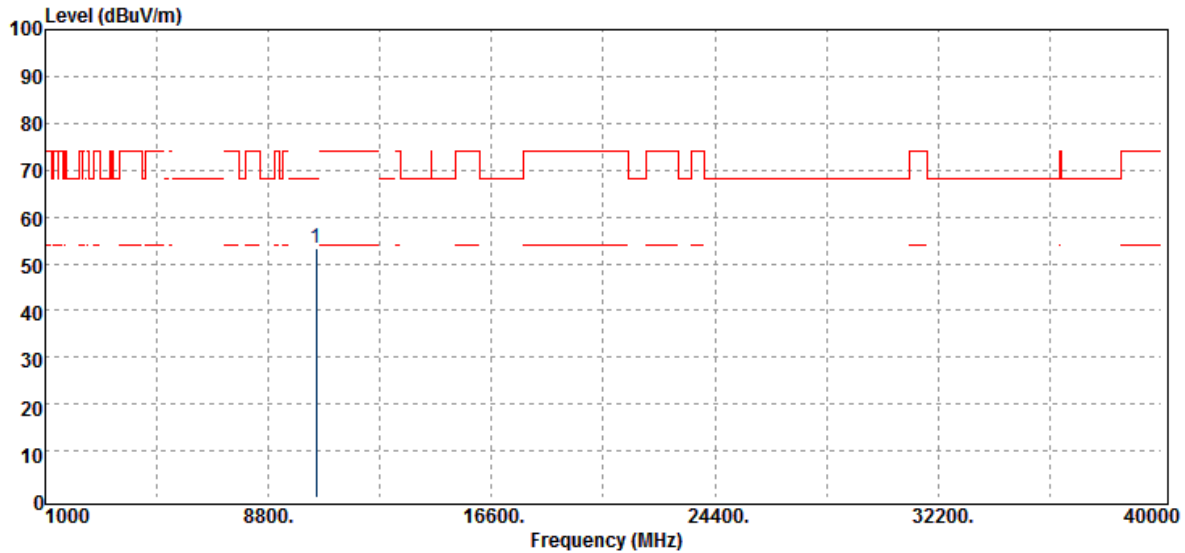
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Operation Band :802.11aB1
Fundamental Frequency :5240 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



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	36.73	16.48	53.21	68.20	-14.99

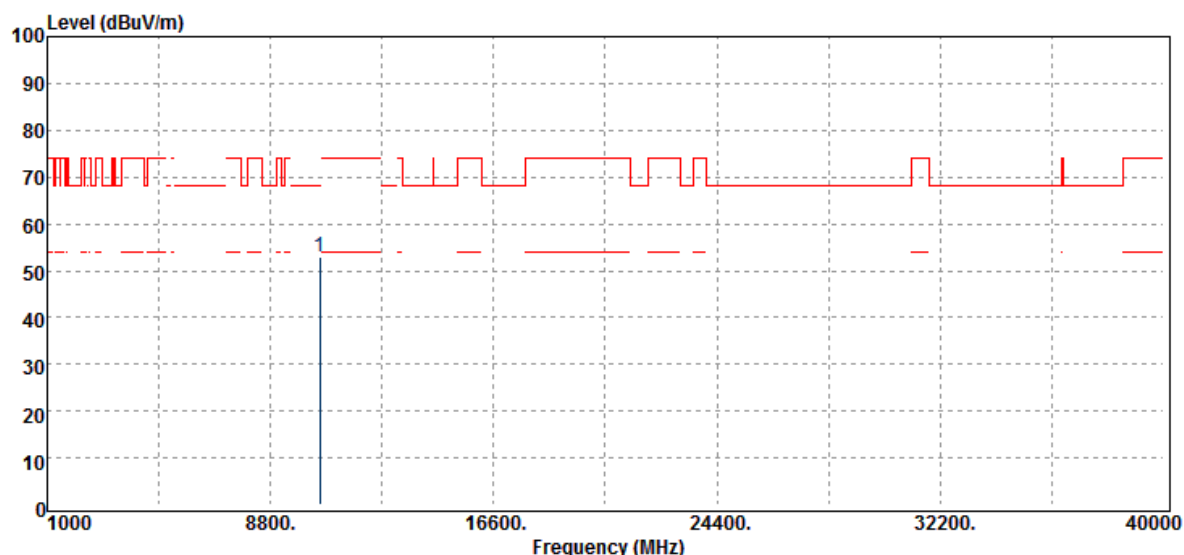
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Band	:802.11aB2	Test Date	:2019-03-09
Fundamental Frequency	:5260 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	Peak	37.36	15.57	52.93	68.20	-15.27

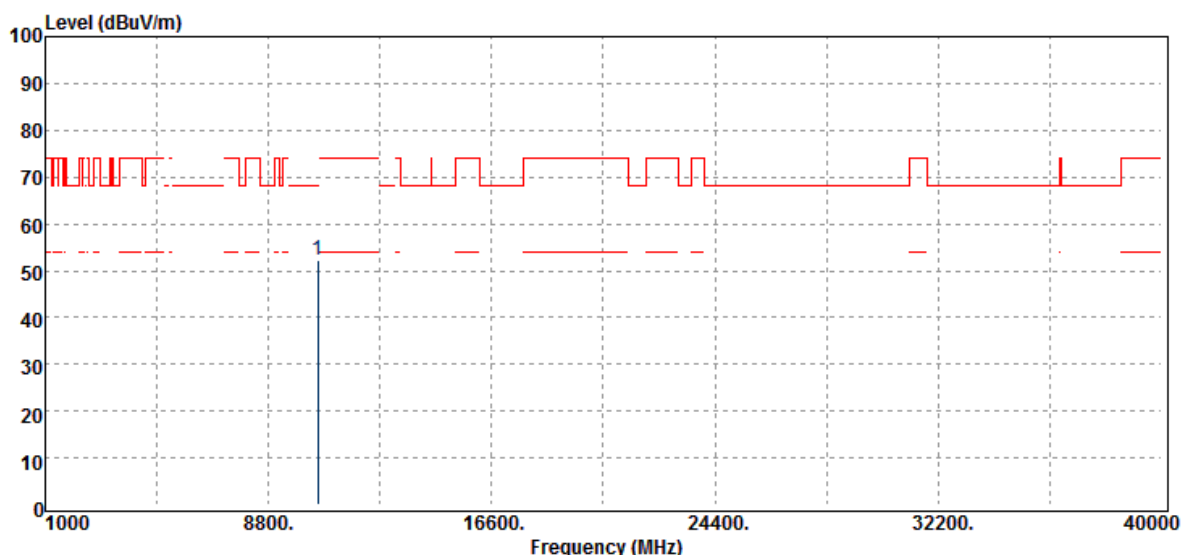
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Operation Band :802.11aB2
Fundamental Frequency :5260 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	Peak	36.54	15.57	52.11	68.20	-16.09

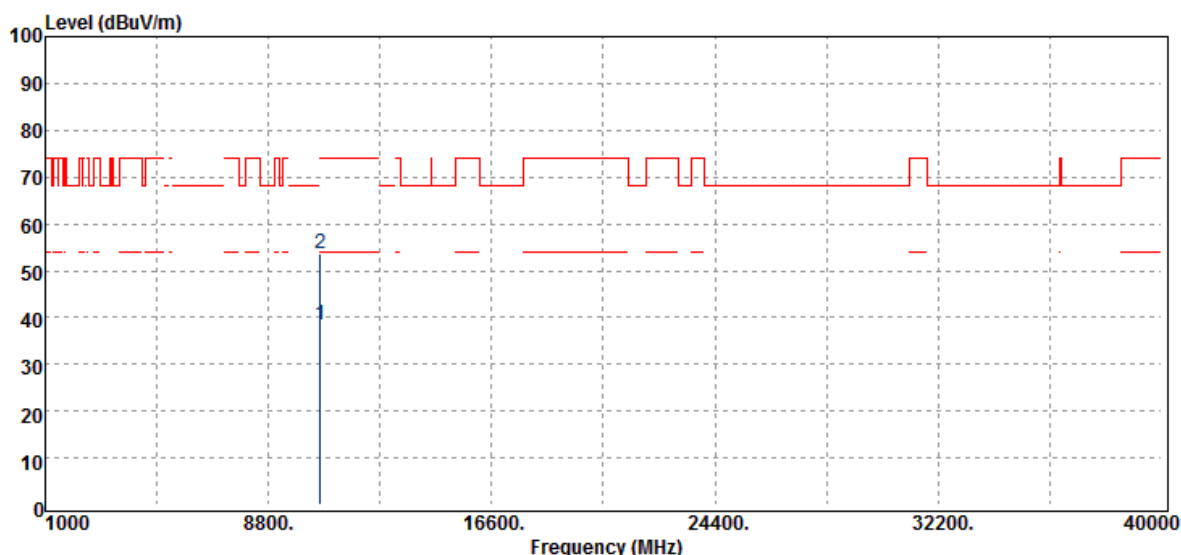
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	Average	22.80	15.47	38.27	54.00	-15.73
10600.00	Peak	38.08	15.47	53.55	74.00	-20.45

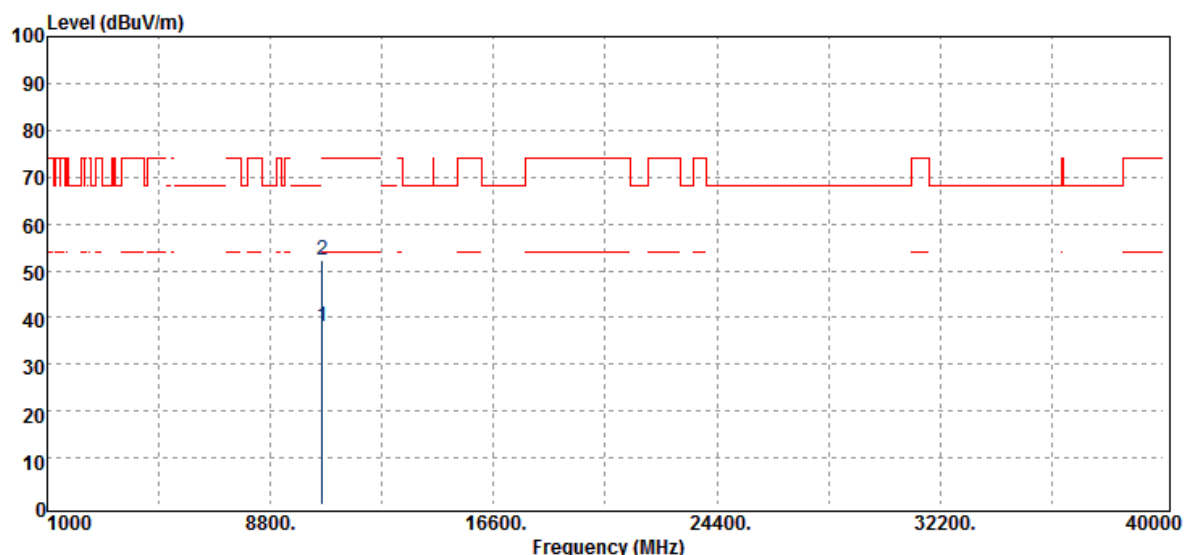
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	Average	22.52	15.47	37.99	54.00	-16.01
10600.00	Peak	36.92	15.47	52.39	74.00	-21.61

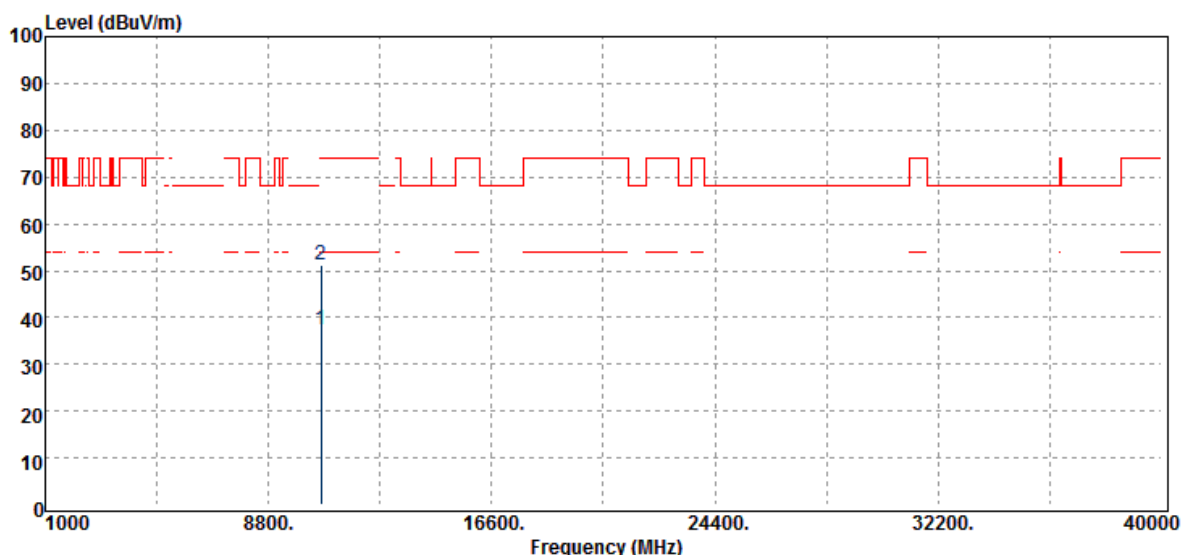
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Operation Band :802.11aB2
Fundamental Frequency :5320 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	Average	21.32	16.12	37.44	54.00	-16.56
10640.00	Peak	35.21	16.12	51.33	74.00	-22.67

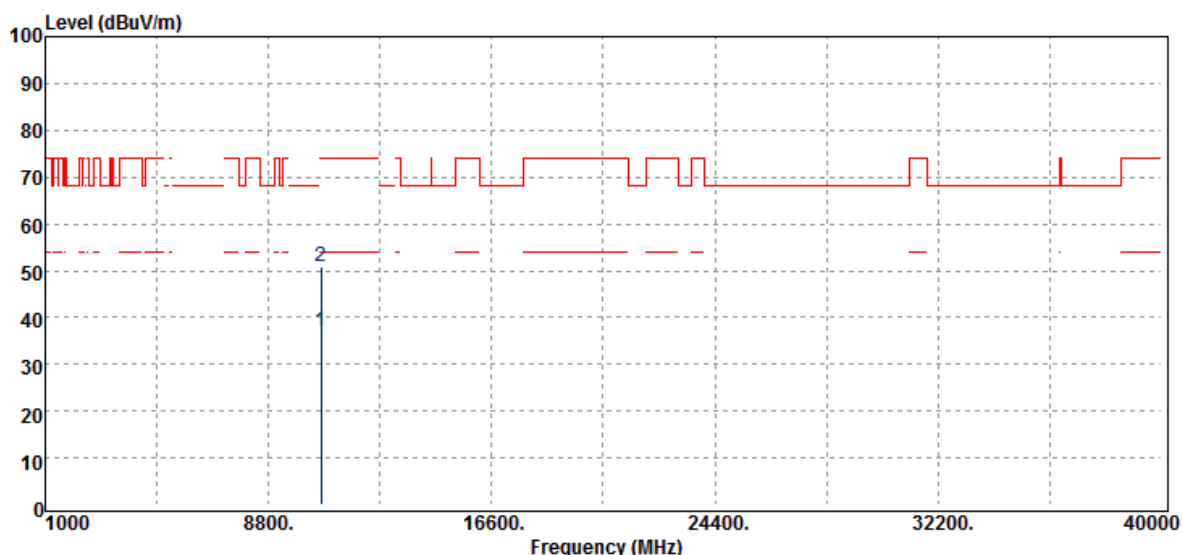
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Operation Band :802.11aB2
Fundamental Frequency :5320 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	Average	20.85	16.12	36.97	54.00	-17.03
10640.00	Peak	34.83	16.12	50.95	74.00	-23.05

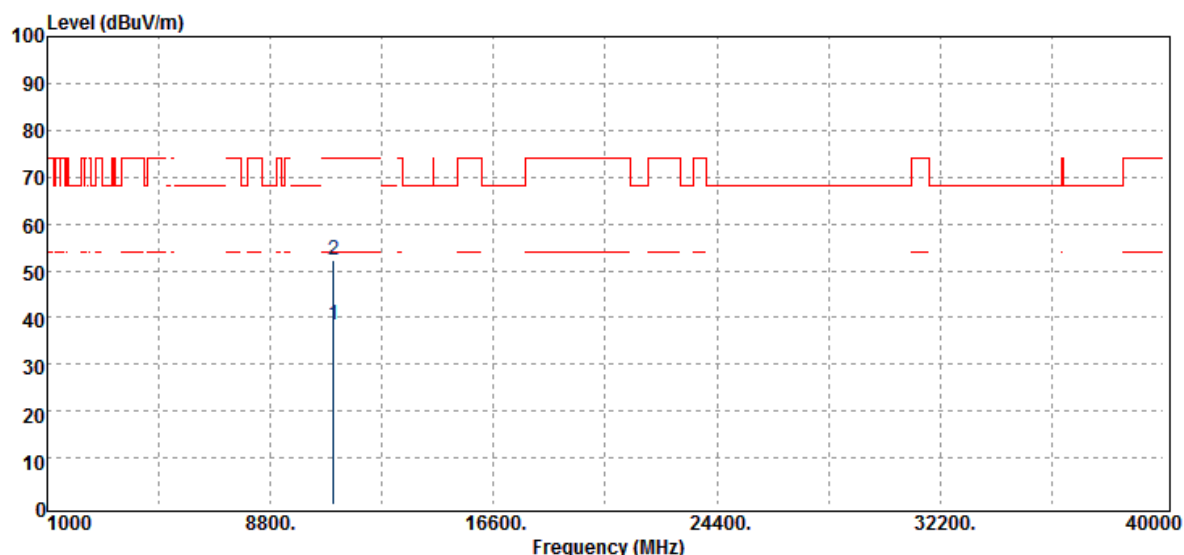
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Band	:802.11aB3	Test Date	:2019-03-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11000.00	Average	20.55	17.75	38.30	54.00	-15.70
11000.00	Peak	34.65	17.75	52.40	74.00	-21.60

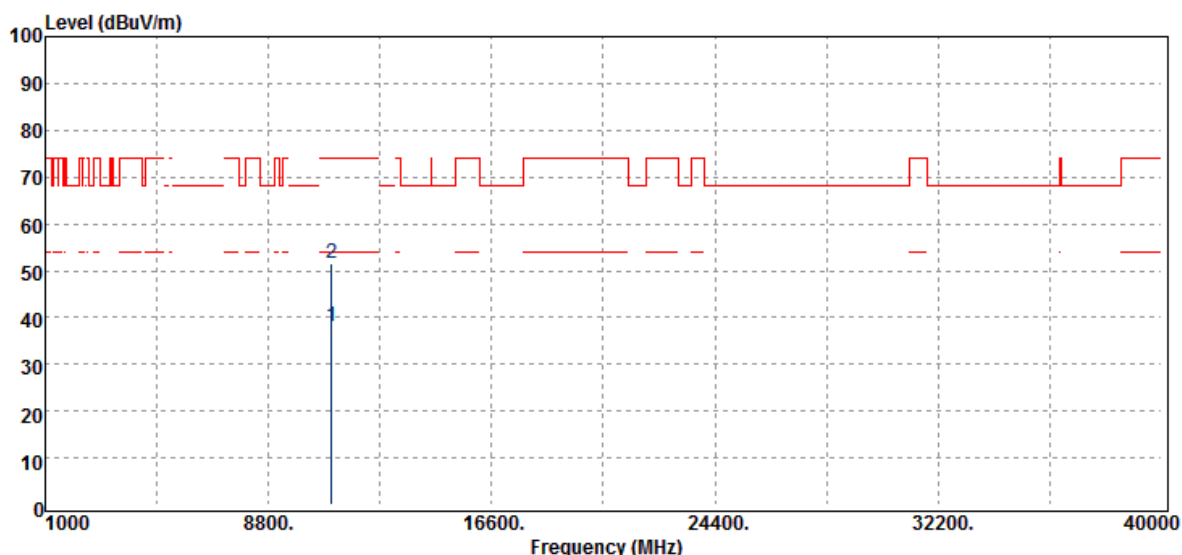
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Operation Band :802.11aB3
Fundamental Frequency :5500 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.00	Average	20.43	17.75	38.18	54.00	-15.82
11000.00	Peak	33.93	17.75	51.68	74.00	-22.32

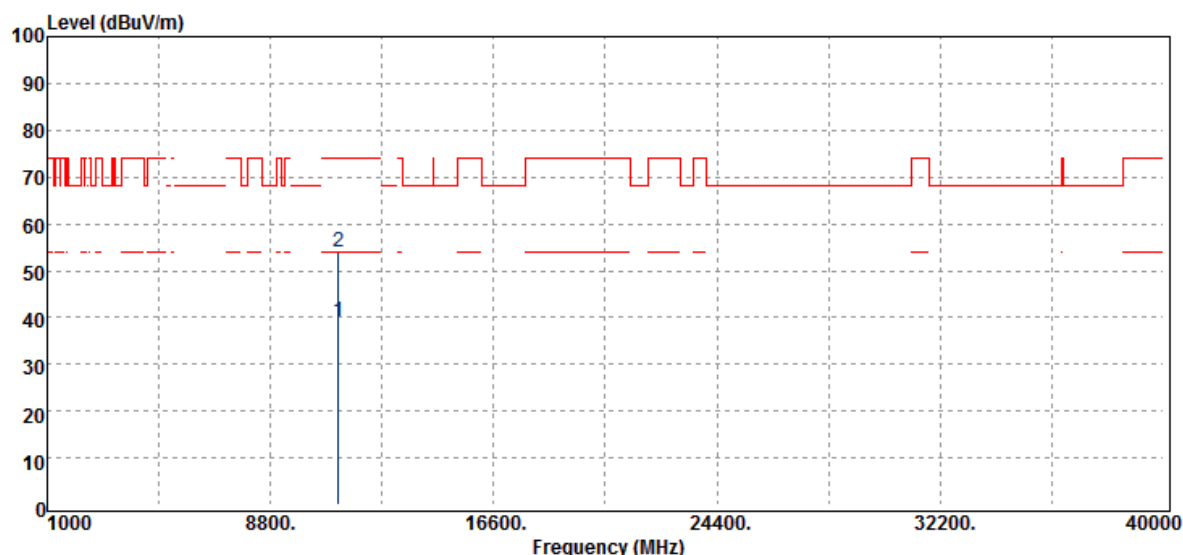
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11160.00	Average	22.62	16.53	39.15	54.00	-14.85
11160.00	Peak	37.58	16.53	54.11	74.00	-19.89

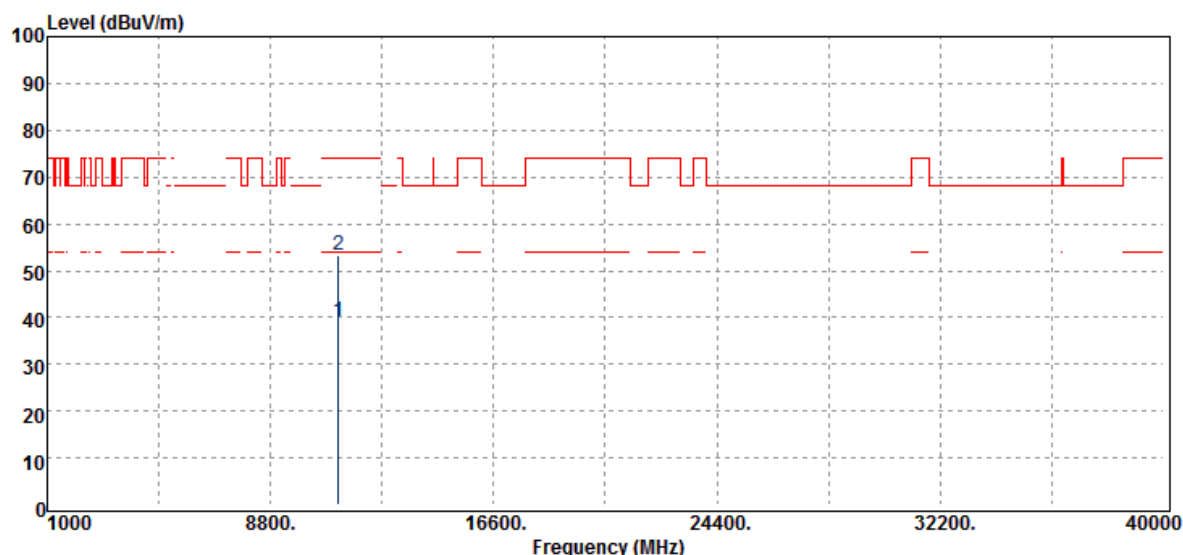
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.00	Average	22.44	16.53	38.97	54.00	-15.03
11160.00	Peak	36.68	16.53	53.21	74.00	-20.79

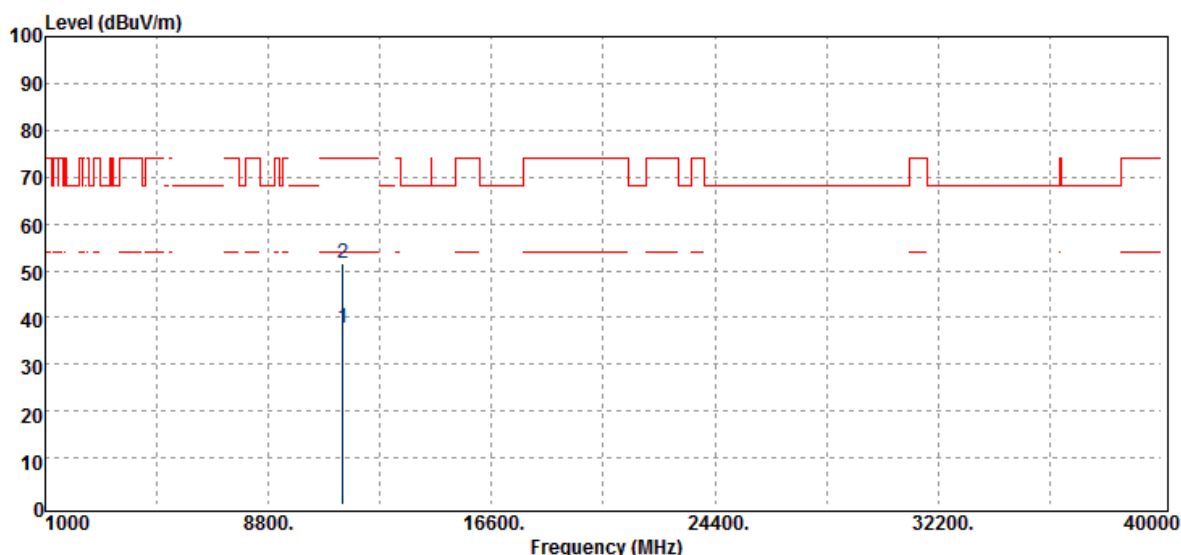
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Operation Band :802.11aB3
Fundamental Frequency :5700 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.00	Average	21.22	16.48	37.70	54.00	-16.30
11400.00	Peak	35.17	16.48	51.65	74.00	-22.35

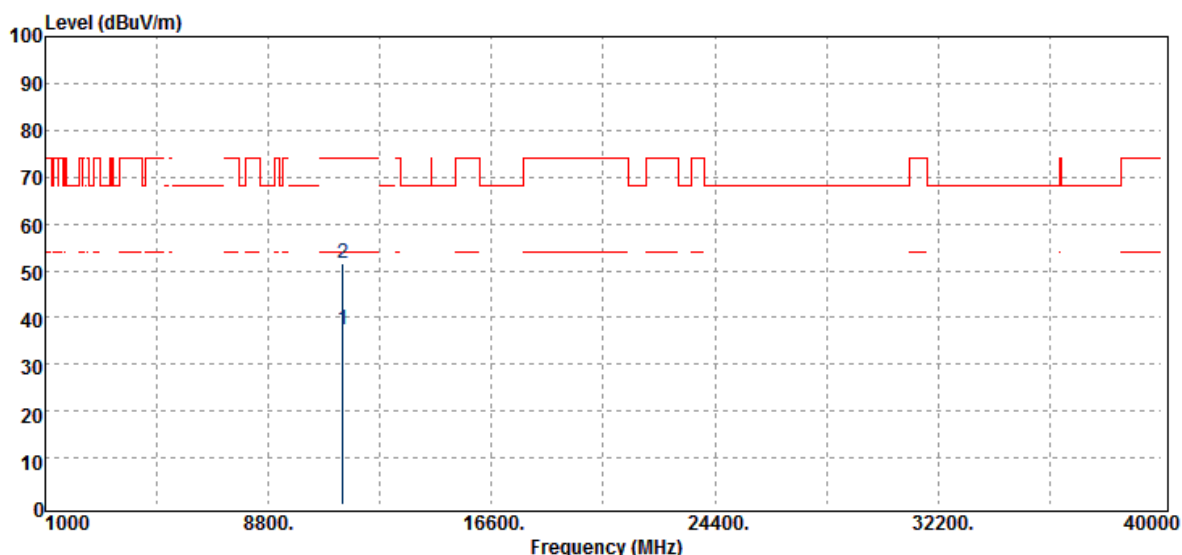
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Operation Band :802.11aB3
Fundamental Frequency :5700 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.00	Average	21.03	16.48	37.51	54.00	-16.49
11400.00	Peak	35.00	16.48	51.48	74.00	-22.52

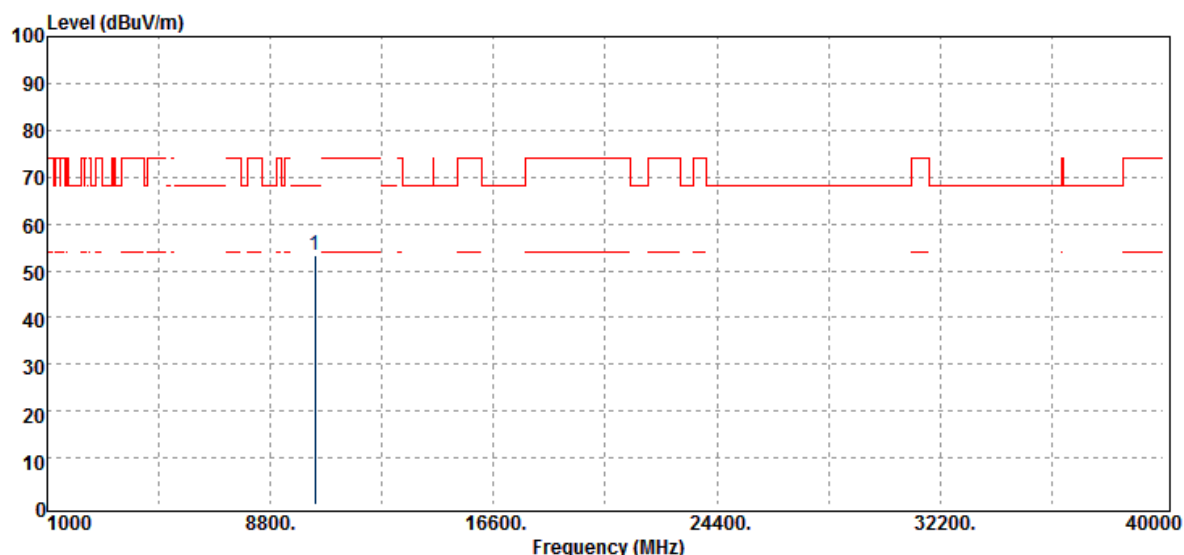
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Band	:802.11n20B1	Test Date	:2019-03-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	39.04	14.41	53.45	68.20	-14.75

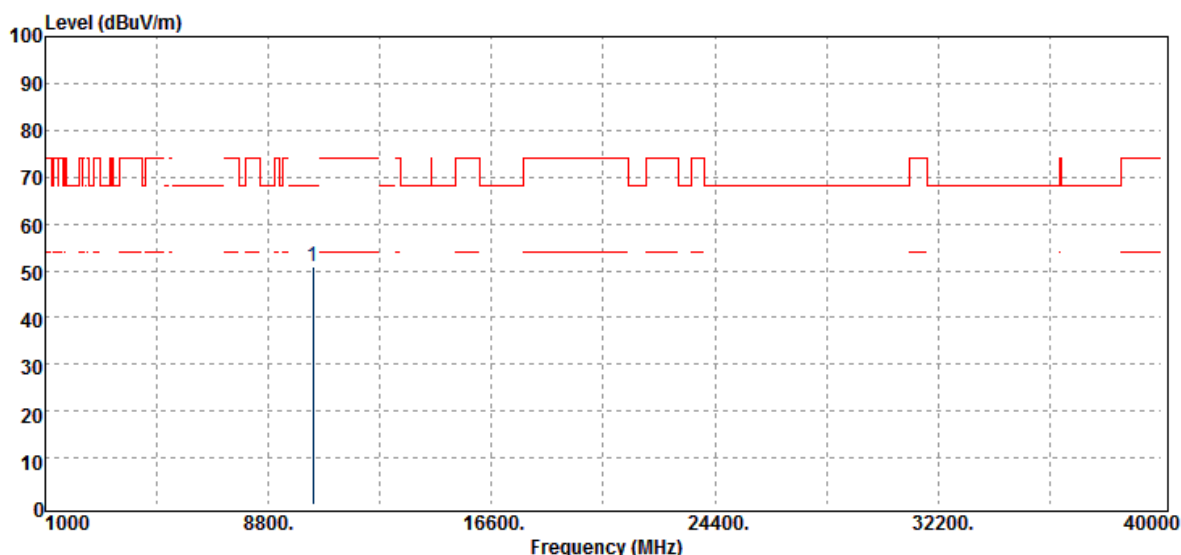
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Operation Band :802.11n20B1
Fundamental Frequency :5180 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	36.60	14.41	51.01	68.20	-17.19

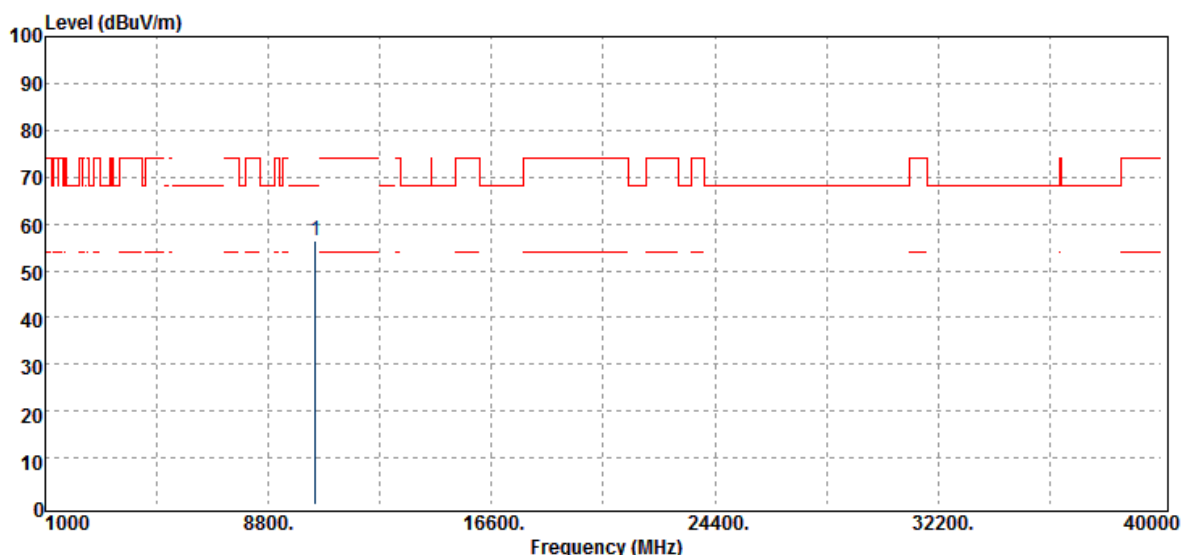
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Operation Band :802.11n20B1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	Peak	40.88	15.58	56.46	68.20	-11.74

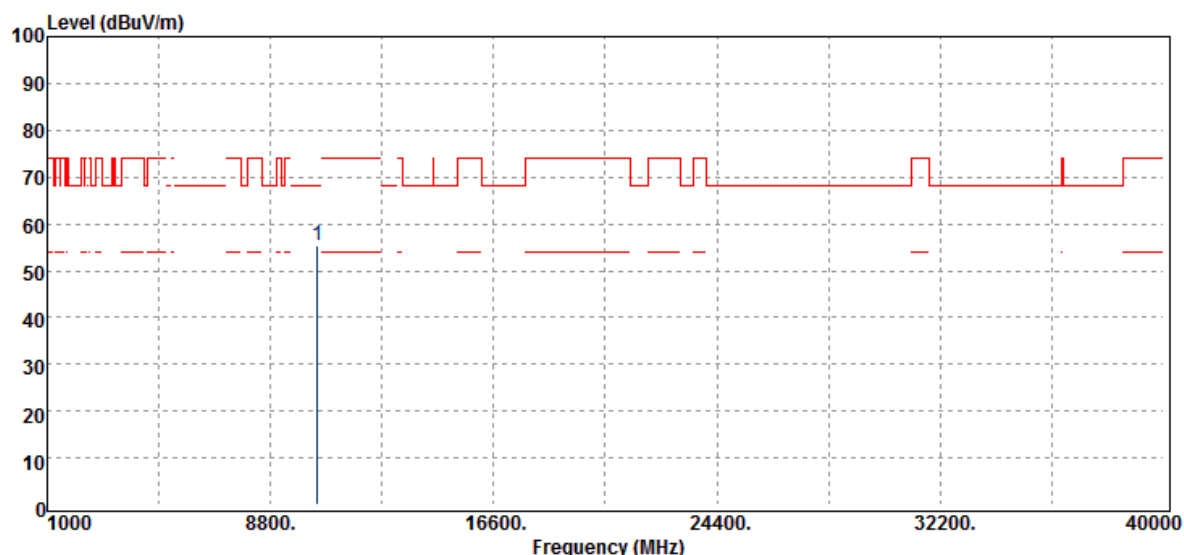
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Operation Band :802.11n20B1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	Peak	39.70	15.58	55.28	68.20	-12.92

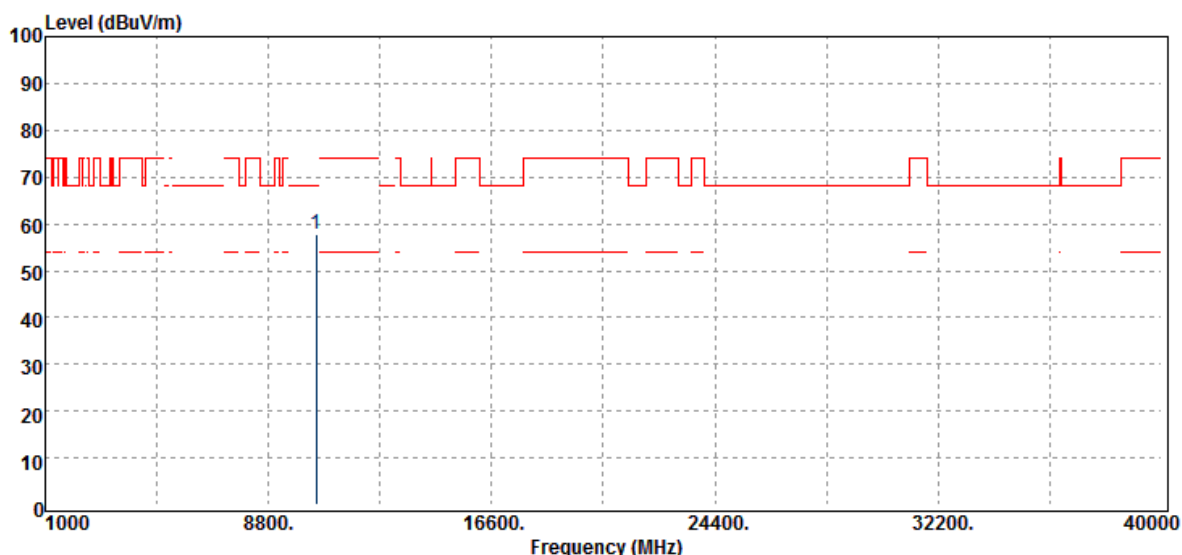
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Operation Band :802.11n20B1
Fundamental Frequency :5240 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	Peak	41.30	16.48	57.78	68.20	-10.42

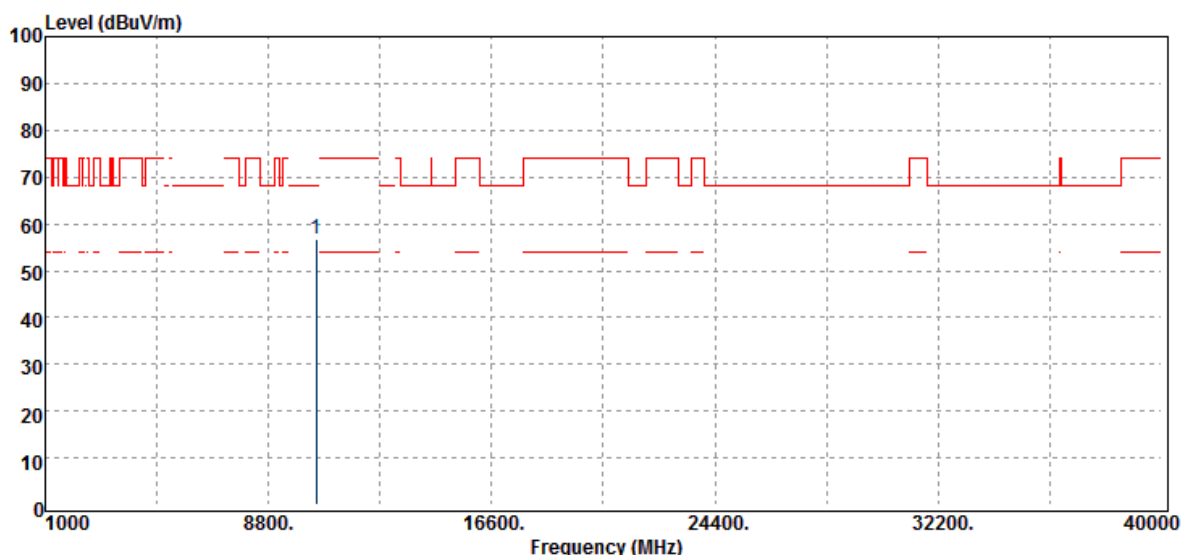
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Operation Band :802.11n20B1
Fundamental Frequency :5240 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	Peak	40.42	16.48	56.90	68.20	-11.30

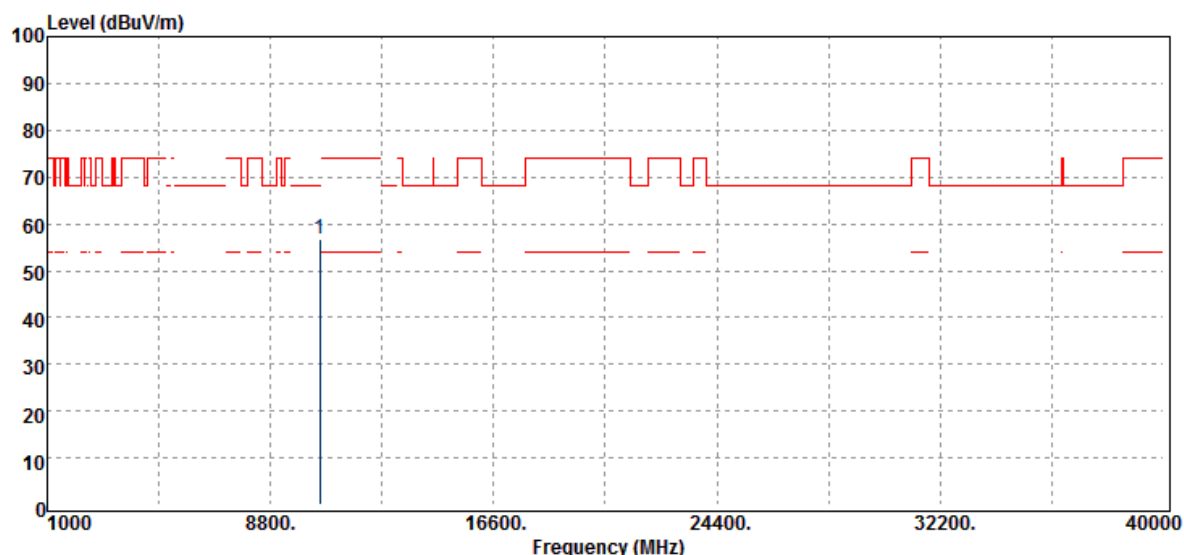
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Band	:802.11n20B2	Test Date	:2019-03-09
Fundamental Frequency	:5260 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



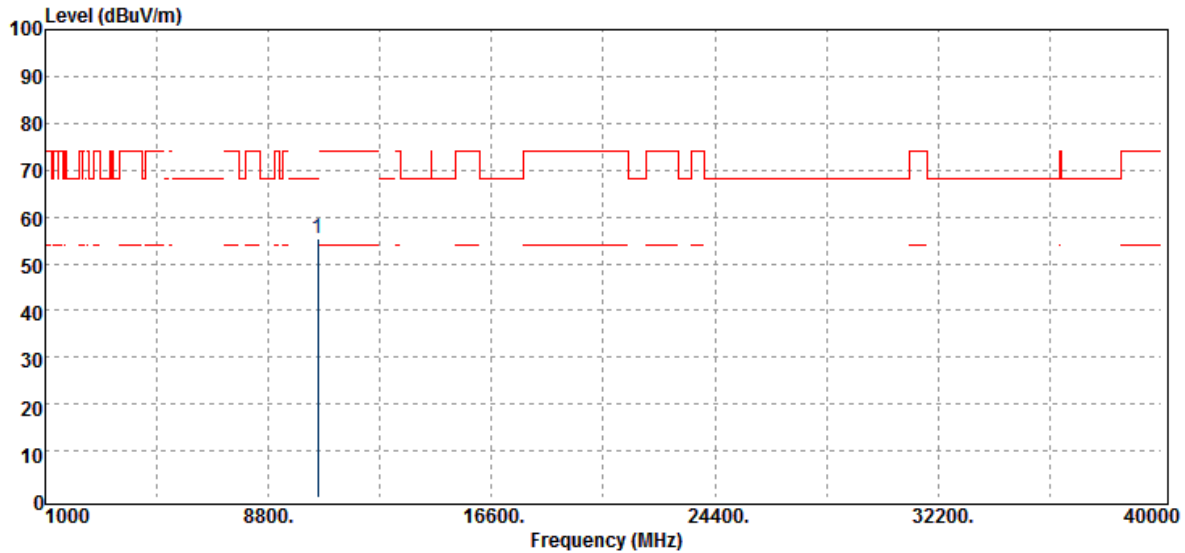
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10520.00	Peak	41.16	15.57	56.73	68.20	-11.47

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Operation Band	:802.11n20B2	Test Date	:2019-03-09
Fundamental Frequency	:5260 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



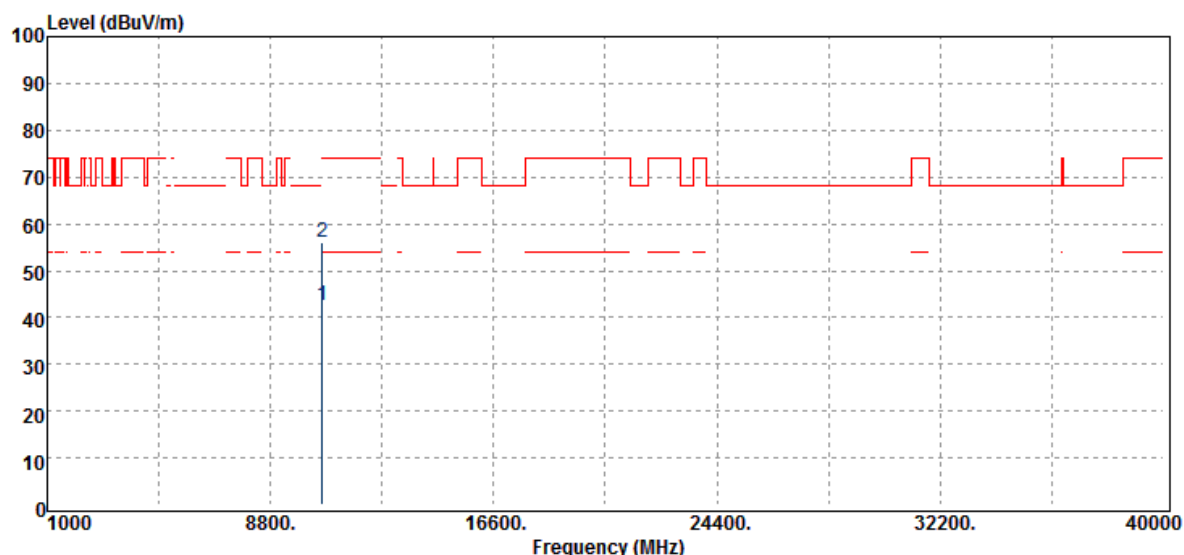
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	Peak	39.92	15.57	55.49	68.20	-12.71

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Operation Band	:802.11n20B2	Test Date	:2019-03-09
Fundamental Frequency	:5300 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



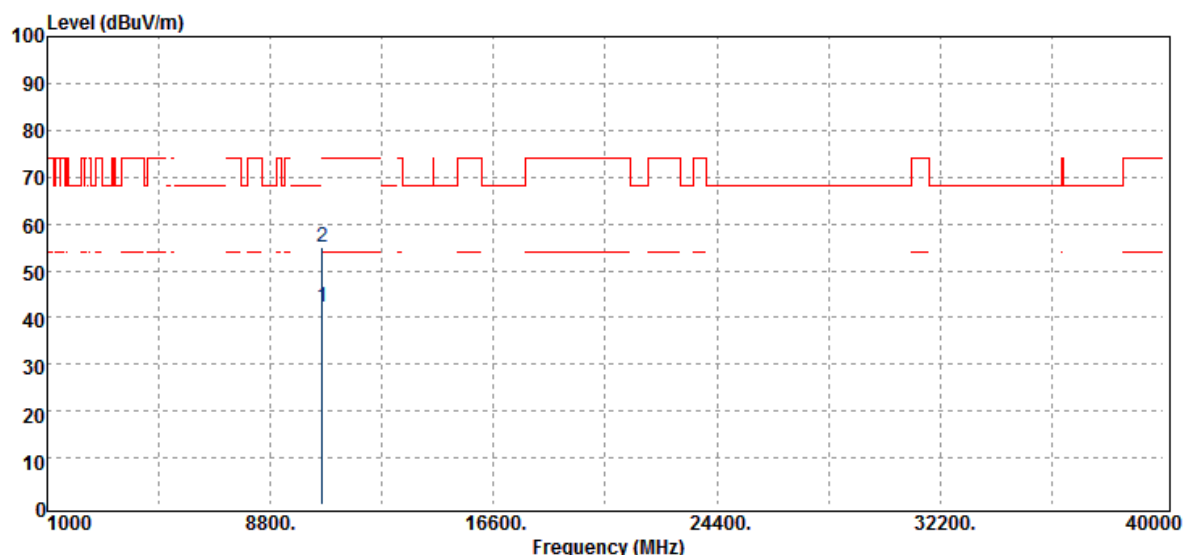
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	Average	27.25	15.47	42.72	54.00	-11.28
10600.00	Peak	40.66	15.47	56.13	74.00	-17.87

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Operation Band	:802.11n20B2	Test Date	:2019-03-09
Fundamental Frequency	:5300 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	Average	26.80	15.47	42.27	54.00	-11.73
10600.00	Peak	39.51	15.47	54.98	74.00	-19.02

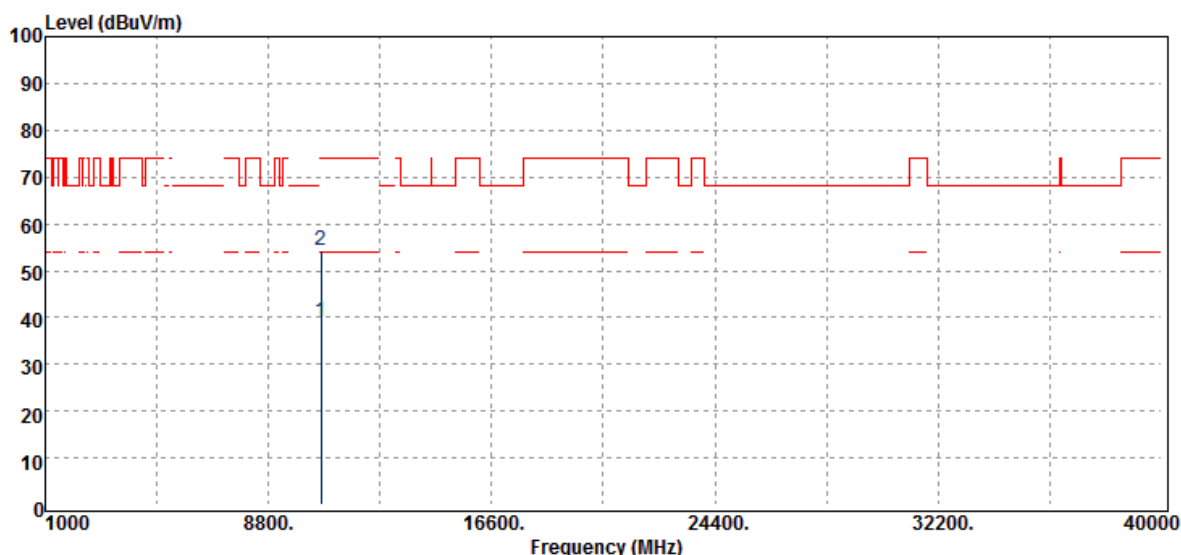
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Operation Band :802.11n20B2
Fundamental Frequency :5320 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



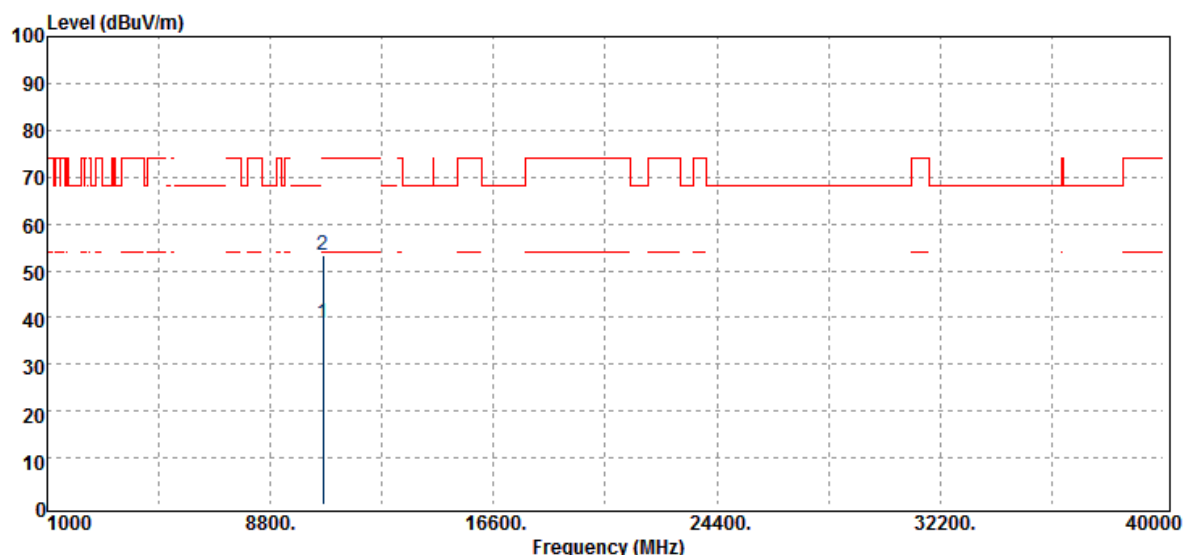
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	Average	22.92	16.12	39.04	54.00	-14.96
10640.00	Peak	38.17	16.12	54.29	74.00	-19.71

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Operation Band	:802.11n20B2	Test Date	:2019-03-09
Fundamental Frequency	:5320 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	Average	22.58	16.12	38.70	54.00	-15.30
10640.00	Peak	37.26	16.12	53.38	74.00	-20.62

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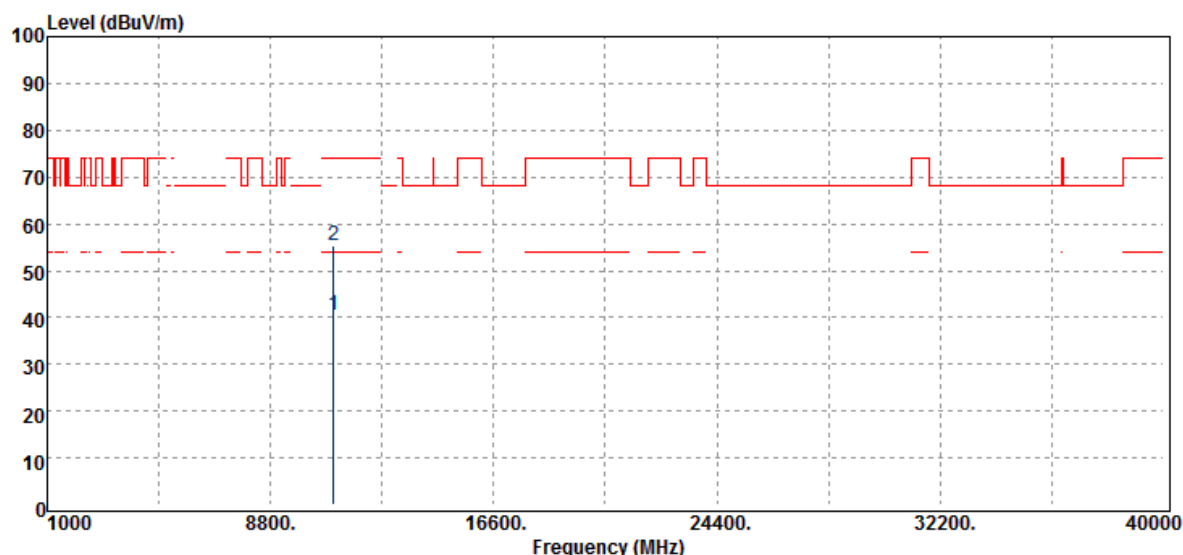
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Band :802.11n20B3
Fundamental Frequency :5500 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



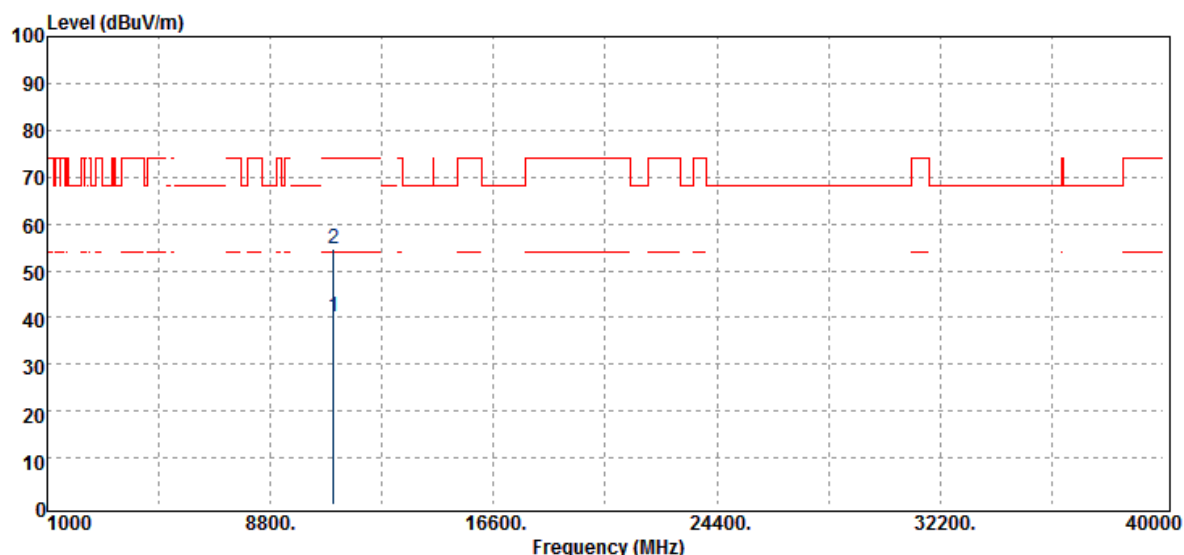
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11000.00	Average	22.71	17.75	40.46	54.00	-13.54
11000.00	Peak	37.75	17.75	55.50	74.00	-18.50

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Operation Band	:802.11n20B3	Test Date	:2019-03-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



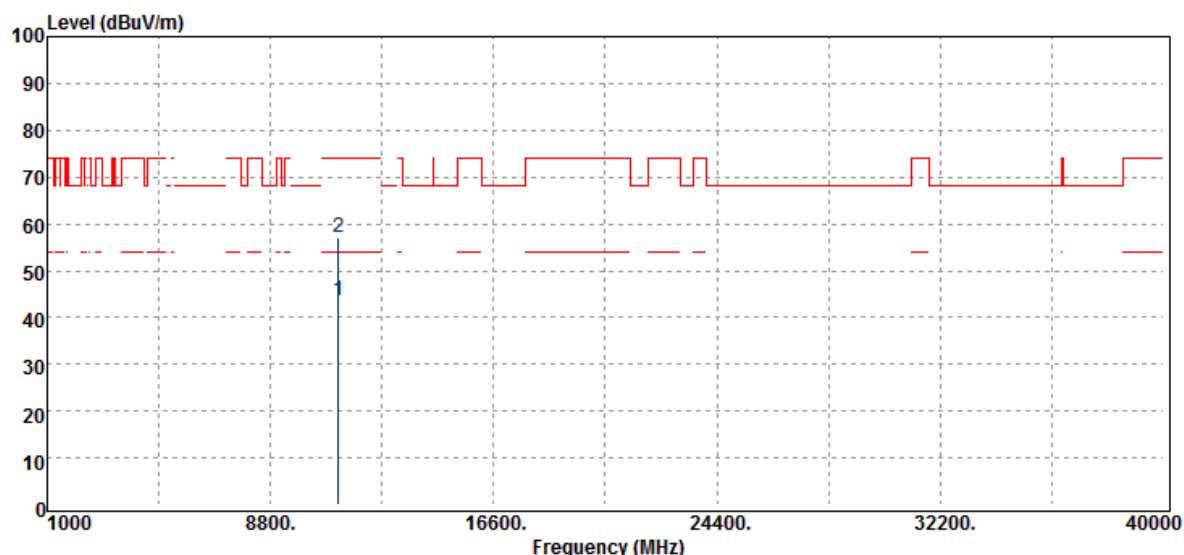
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11000.00	Average	22.24	17.75	39.99	54.00	-14.01
11000.00	Peak	37.08	17.75	54.83	74.00	-19.17

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Operation Band	:802.11n20B3	Test Date	:2019-03-09
Fundamental Frequency	:5580 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



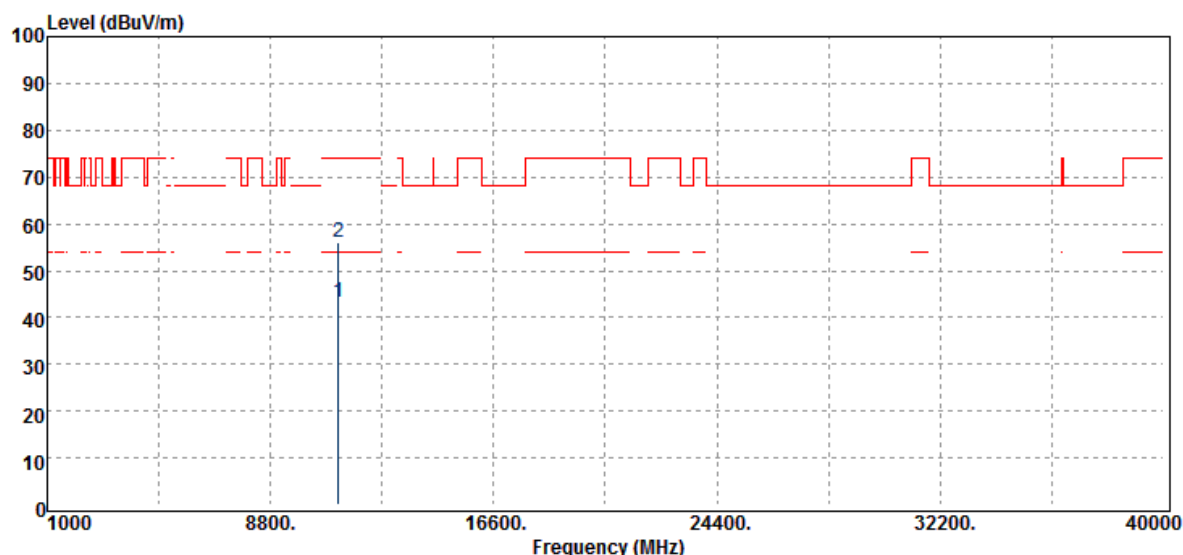
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.00	Average	27.22	16.53	43.75	54.00	-10.25
11160.00	Peak	40.46	16.53	56.99	74.00	-17.01

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Operation Band	:802.11n20B3	Test Date	:2019-03-09
Fundamental Frequency	:5580 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.00	Average	26.88	16.53	43.41	54.00	-10.59
11160.00	Peak	39.69	16.53	56.22	74.00	-17.78

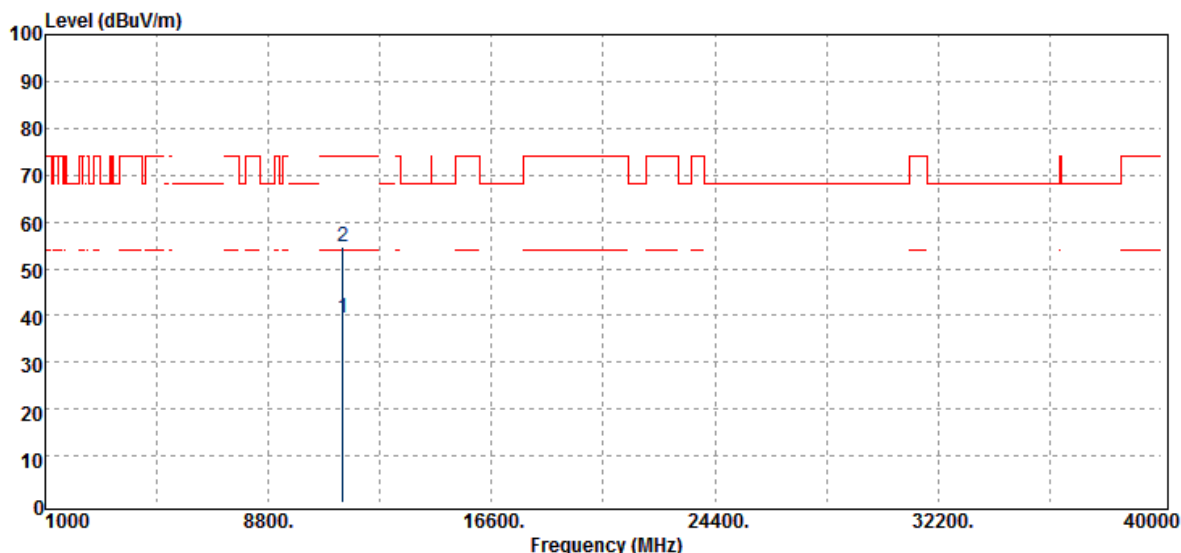
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Operation Band :802.11n20B3
Fundamental Frequency :5700 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



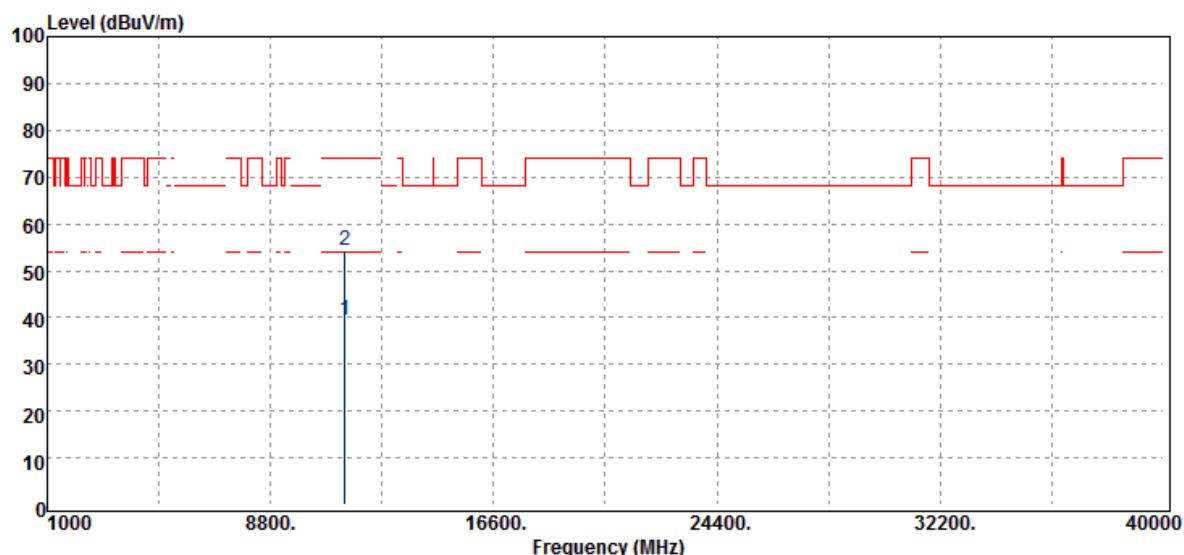
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11400.00	Average	23.10	16.48	39.58	54.00	-14.42
11400.00	Peak	38.31	16.48	54.79	74.00	-19.21

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Operation Band	:802.11n20B3	Test Date	:2019-03-09
Fundamental Frequency	:5700 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.00	Average	22.90	16.48	39.38	54.00	-14.62
11400.00	Peak	37.82	16.48	54.30	74.00	-19.70

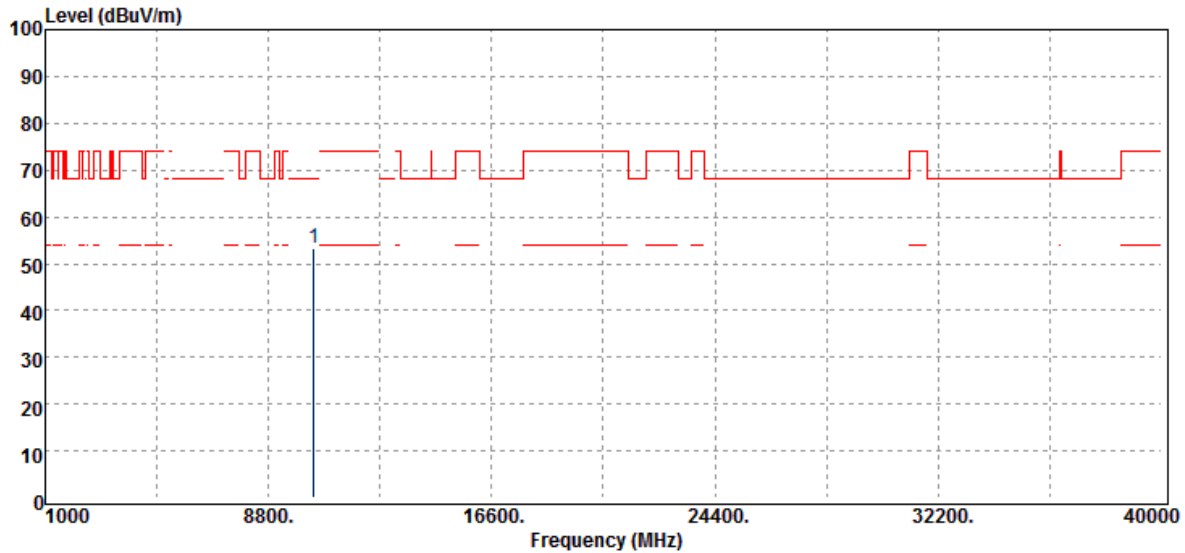
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Band	:802.11n40B1	Test Date	:2019-03-09
Fundamental Frequency	:5190 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10380.00	Peak	38.63	14.58	53.21	68.20	-14.99

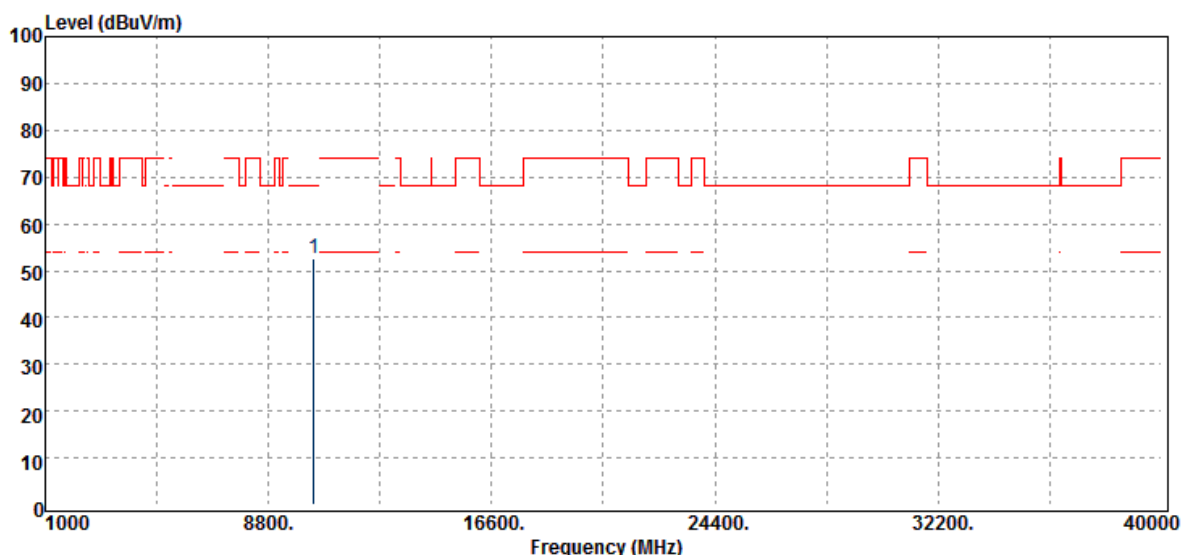
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Operation Band :802.11n40B1
Fundamental Frequency :5190 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10380.00	Peak	38.03	14.58	52.61	68.20	-15.59

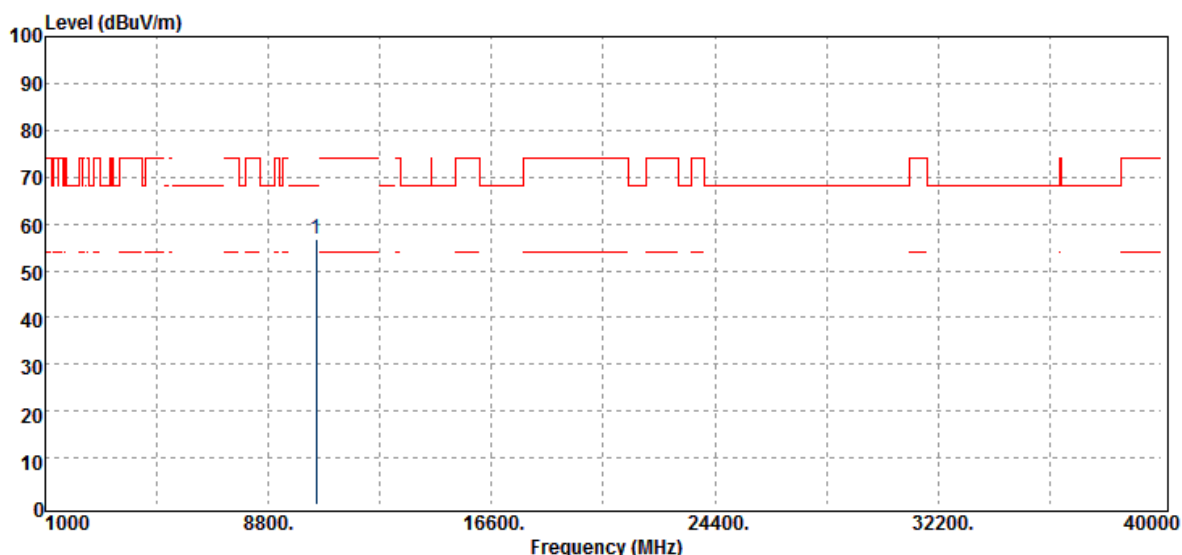
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Operation Band :802.11n40B1
Fundamental Frequency :5230 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10460.00	Peak	40.83	15.97	56.80	68.20	-11.40

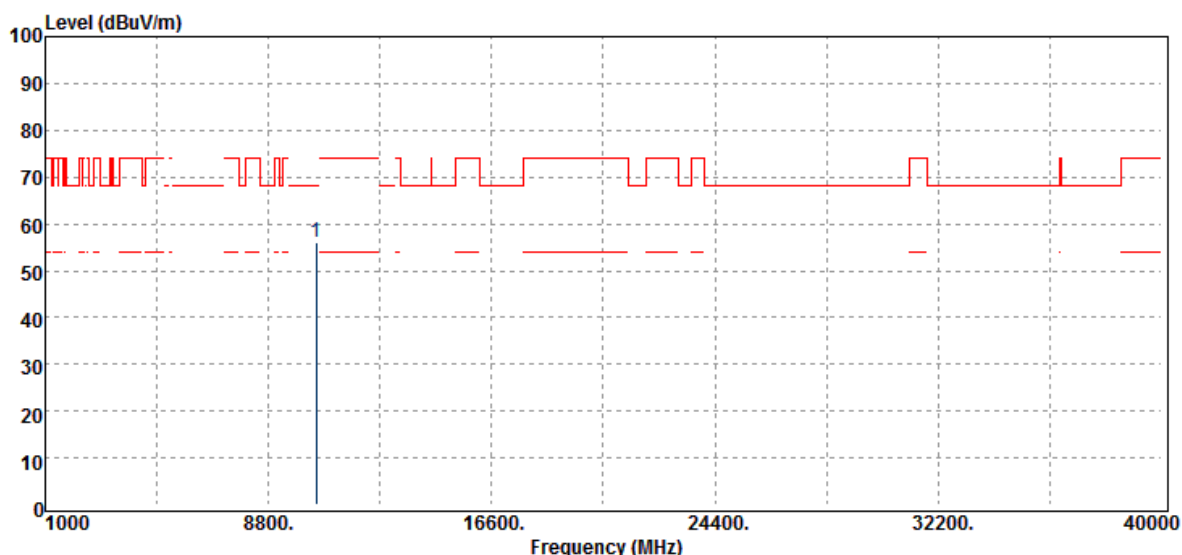
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Operation Band :802.11n40B1
Fundamental Frequency :5230 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10460.00	Peak	40.02	15.97	55.99	68.20	-12.21

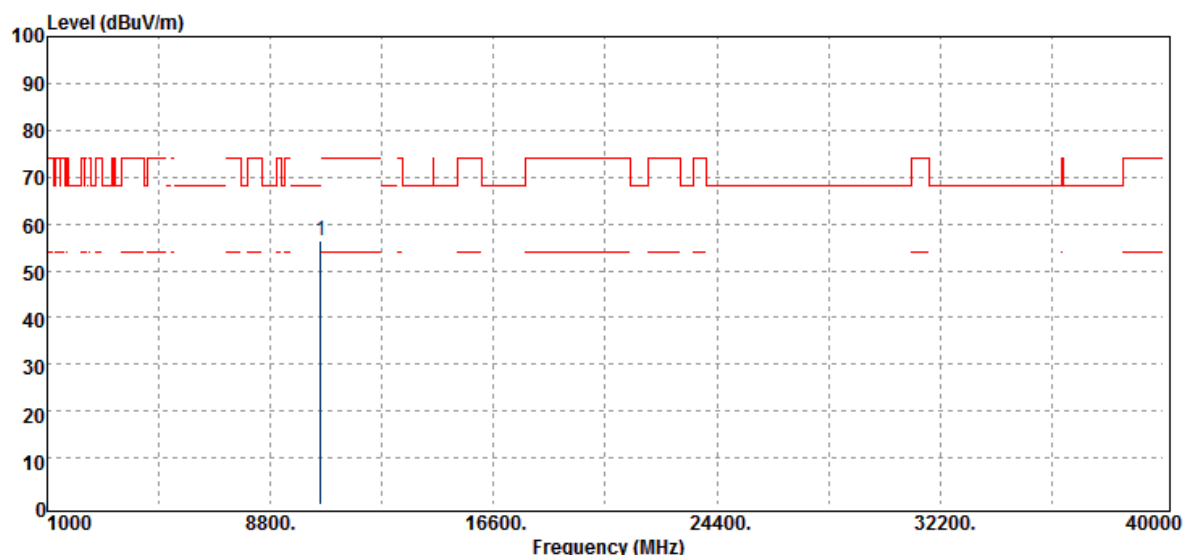
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Band	:802.11n40B2	Test Date	:2019-03-09
Fundamental Frequency	:5270 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



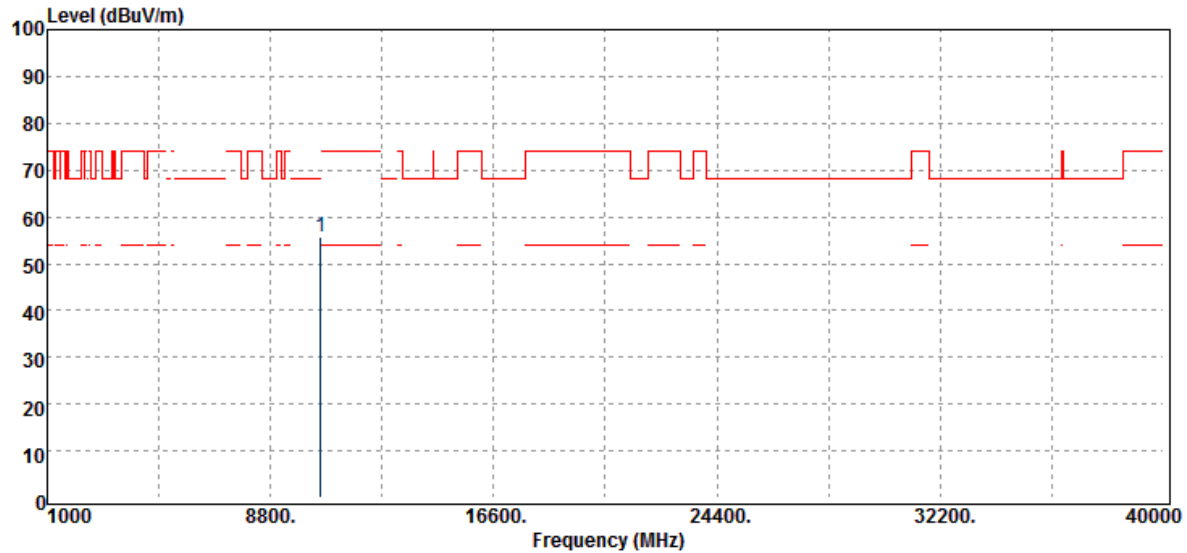
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10540.00	Peak	40.80	15.67	56.47	68.20	-11.73

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Operation Band	:802.11n40B2	Test Date	:2019-03-09
Fundamental Frequency	:5270 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



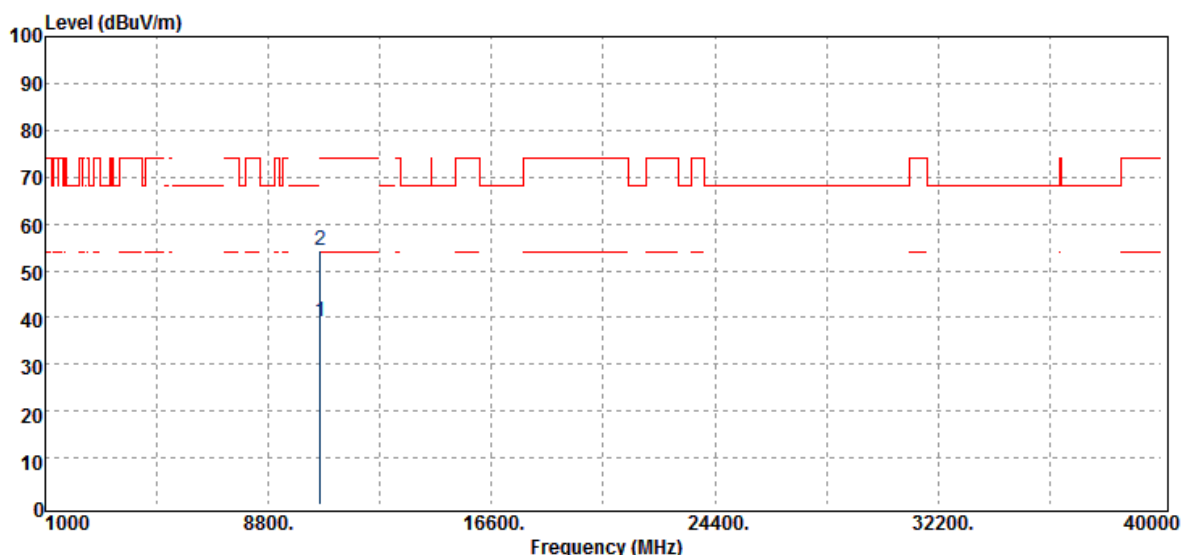
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10540.00	Peak	40.01	15.67	55.68	68.20	-12.52

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Operation Band	:802.11n40B2	Test Date	:2019-03-09
Fundamental Frequency	:5310 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10620.00	Average	23.33	15.78	39.11	54.00	-14.89
10620.00	Peak	38.38	15.78	54.16	74.00	-19.84

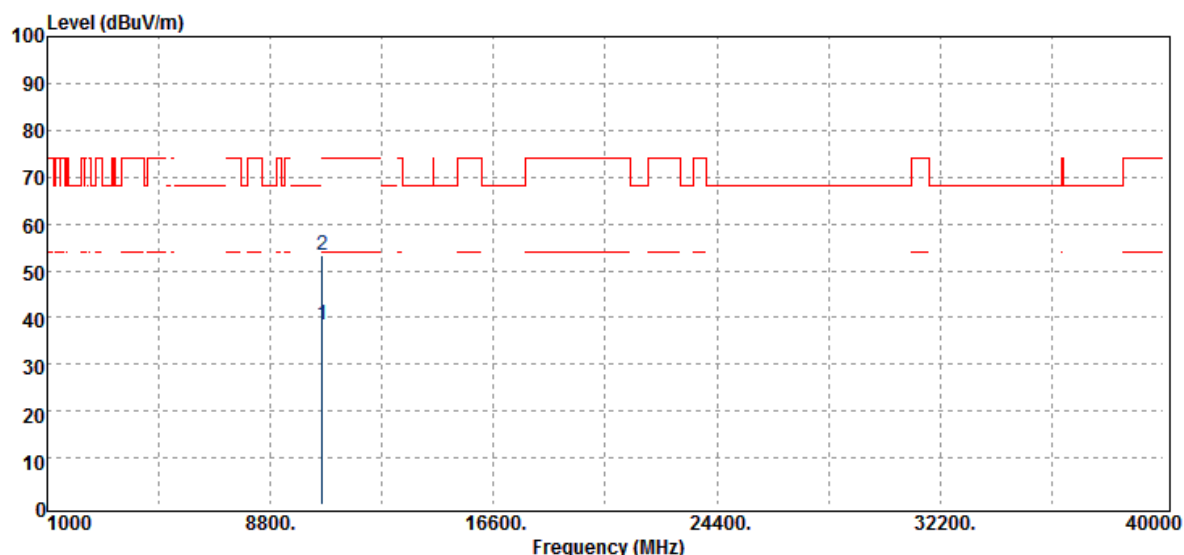
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Operation Band :802.11n40B2
Fundamental Frequency :5310 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10620.00	Average	22.78	15.78	38.56	54.00	-15.44
10620.00	Peak	37.67	15.78	53.45	74.00	-20.55

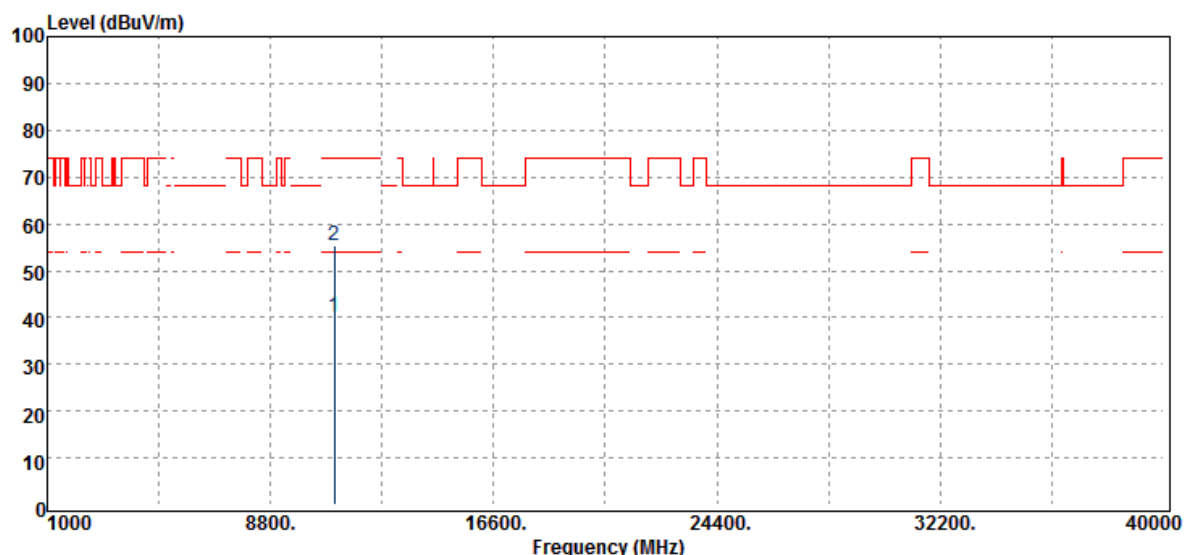
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Band	:802.11n40B3	Test Date	:2019-03-09
Fundamental Frequency	:5510 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11020.00	Average	22.30	17.87	40.17	54.00	-13.83
11020.00	Peak	37.48	17.87	55.35	74.00	-18.65

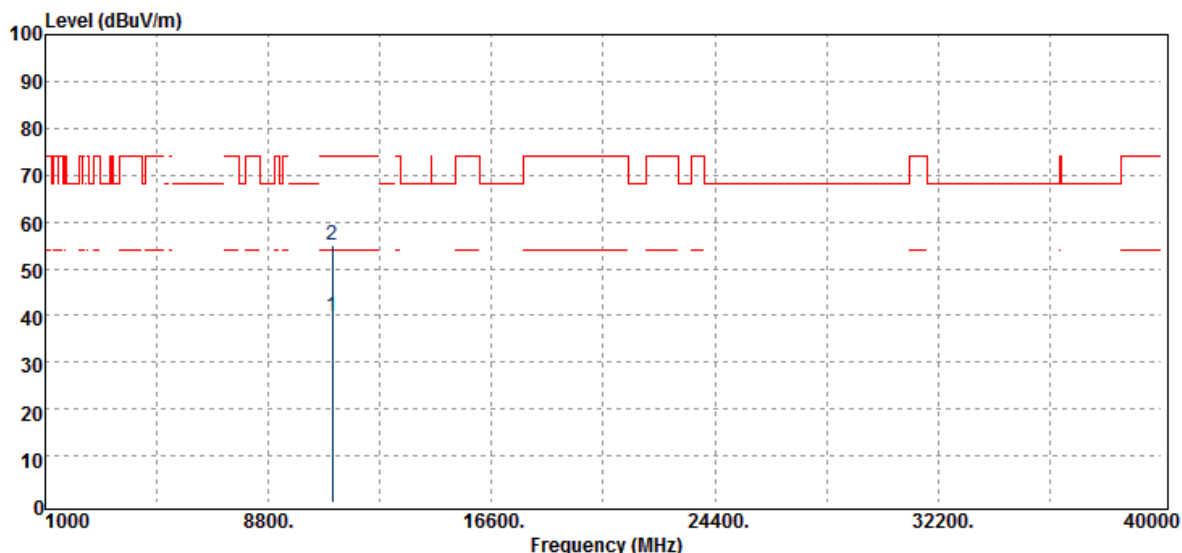
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Operation Band :802.11n40B3
Fundamental Frequency :5510 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



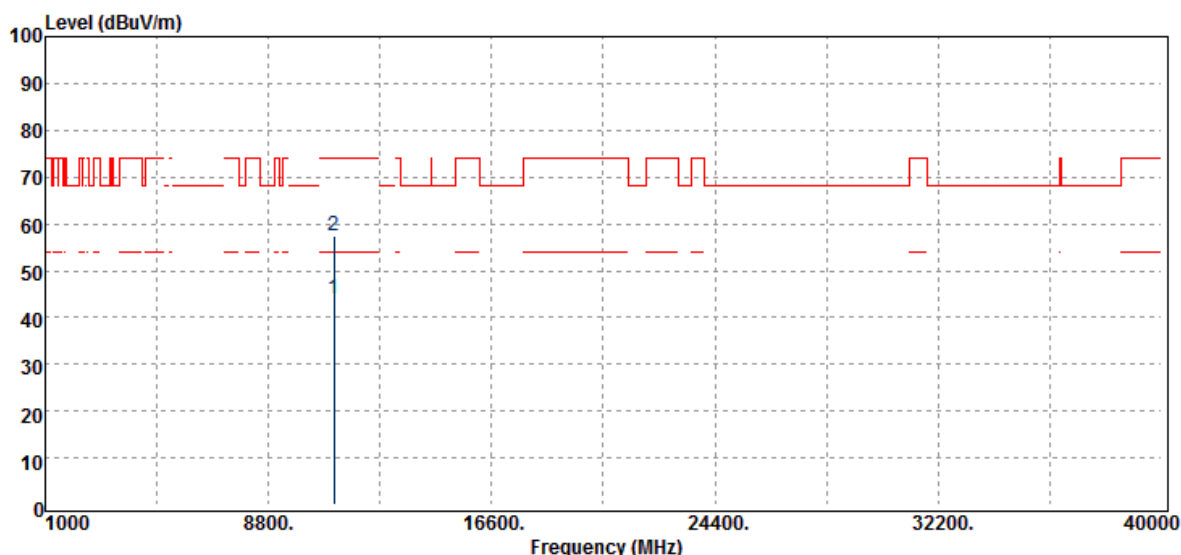
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11020.00	Average	21.94	17.87	39.81	54.00	-14.19
11020.00	Peak	36.97	17.87	54.84	74.00	-19.16

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Operation Band	:802.11n40B3	Test Date	:2019-03-09
Fundamental Frequency	:5550 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



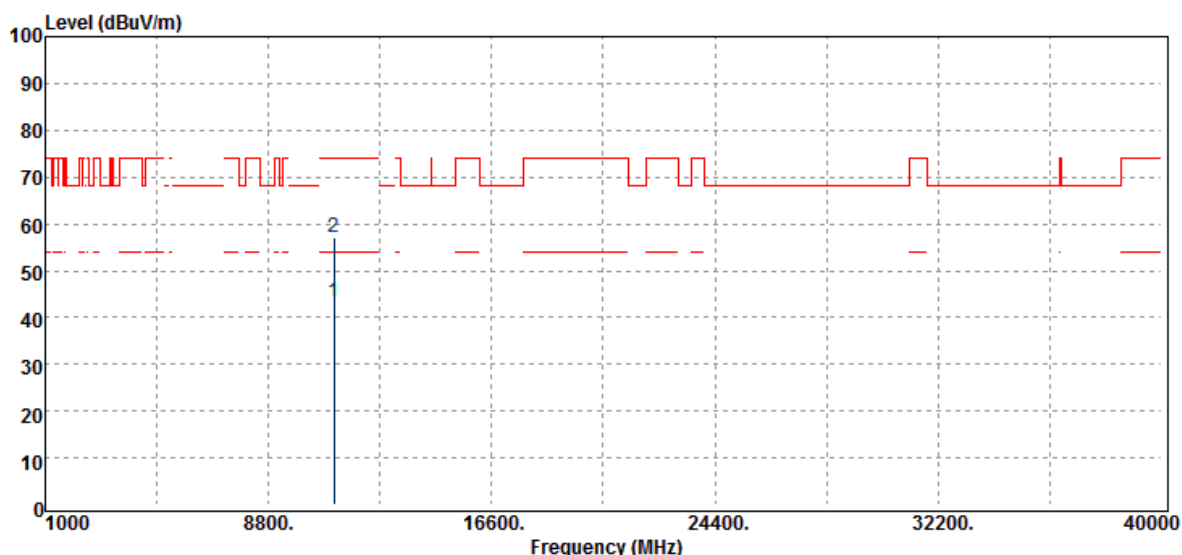
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11100.00	Average	26.85	17.25	44.10	54.00	-9.90
11100.00	Peak	40.24	17.25	57.49	74.00	-16.51

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Operation Band	:802.11n40B3	Test Date	:2019-03-09
Fundamental Frequency	:5550 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11100.00	Average	25.95	17.25	43.20	54.00	-10.80
11100.00	Peak	39.72	17.25	56.97	74.00	-17.03

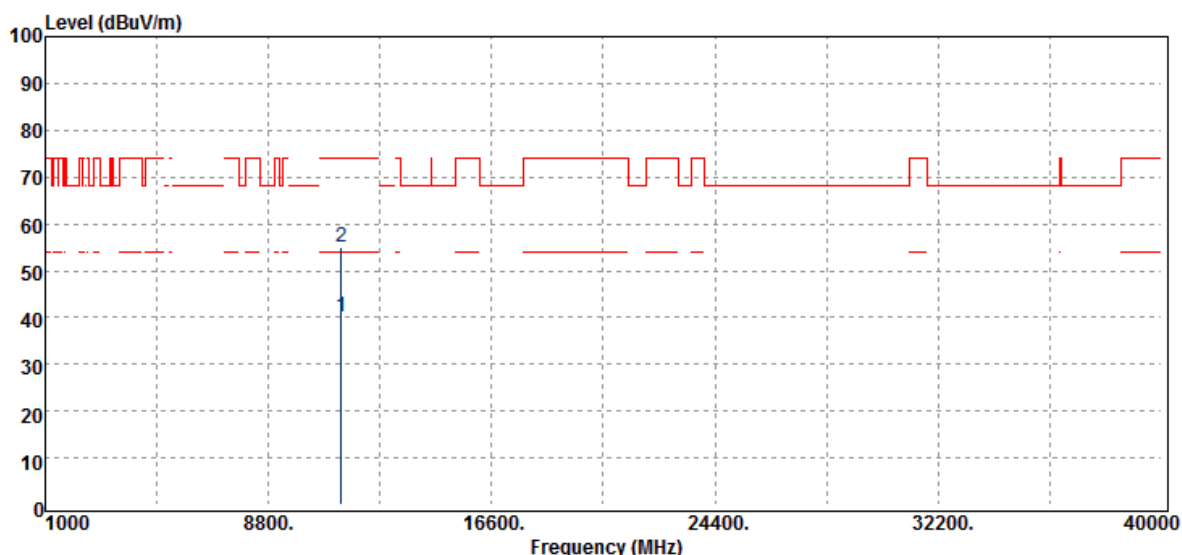
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Operation Band :802.11n40B3
Fundamental Frequency :5670 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11340.00	Average	23.66	16.36	40.02	54.00	-13.98
11340.00	Peak	38.72	16.36	55.08	74.00	-18.92

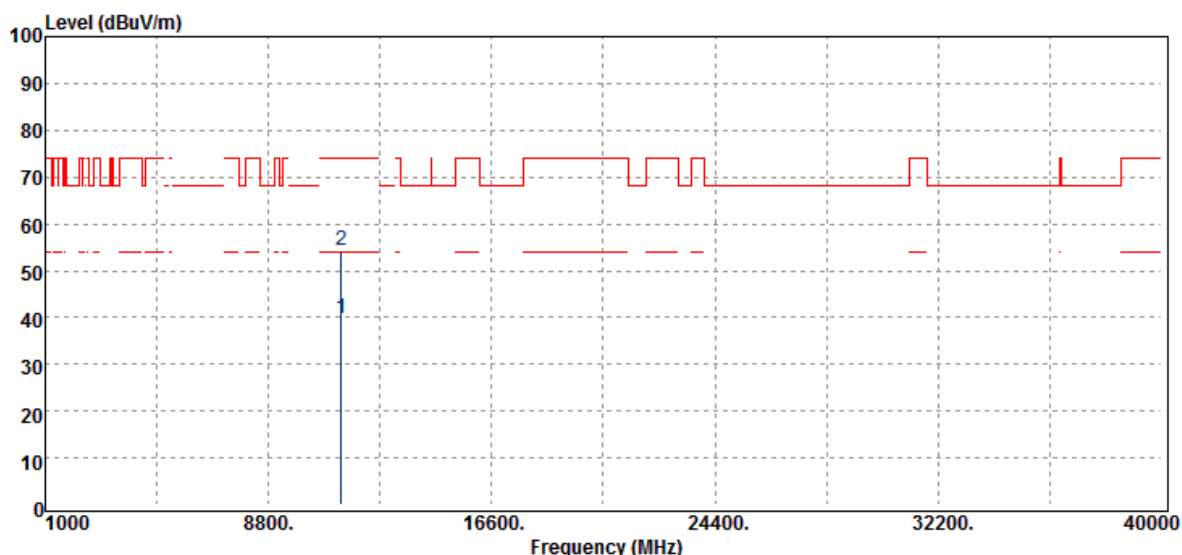
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Operation Band :802.11n40B3
Fundamental Frequency :5670 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11340.00	Average	23.29	16.36	39.65	54.00	-14.35
11340.00	Peak	38.06	16.36	54.42	74.00	-19.58

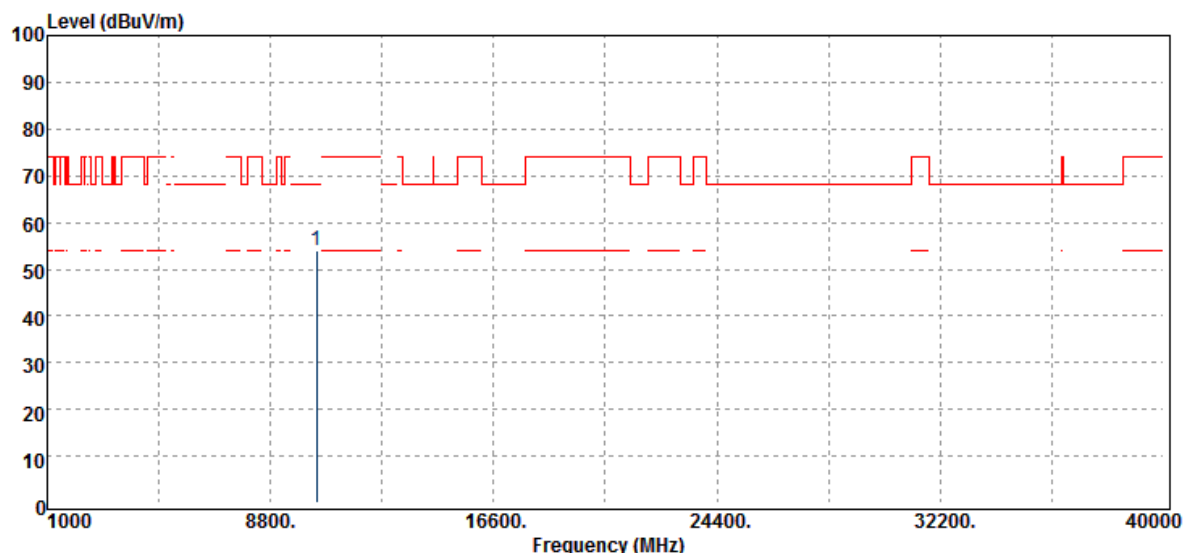
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Band	:802.11ac80B1	Test Date	:2019-03-09
Fundamental Frequency	:5210 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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	38.85	15.12	53.97	68.20	-14.23

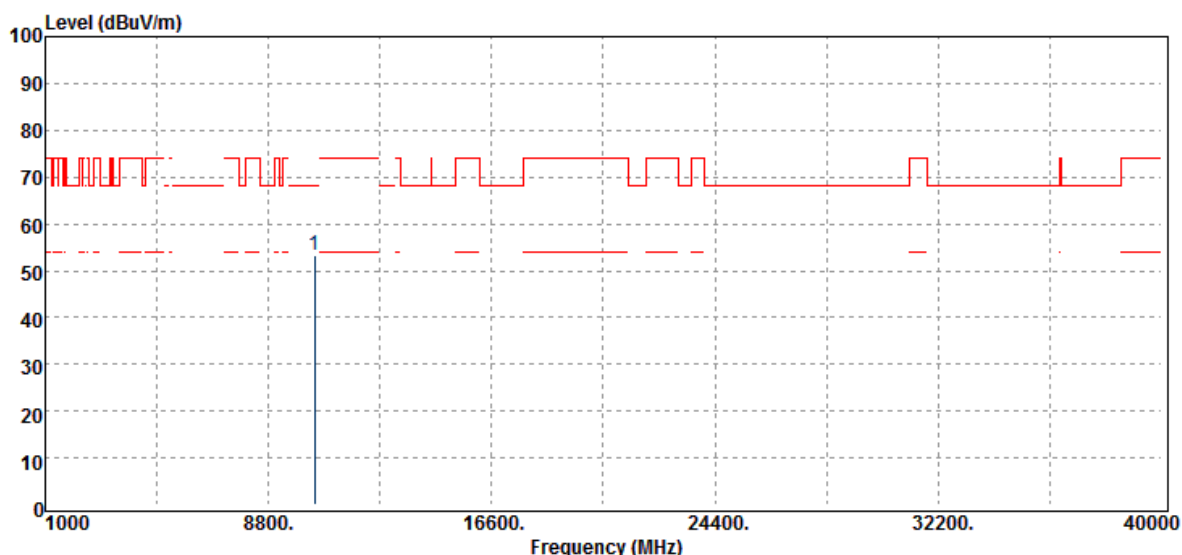
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Operation Band :802.11ac80B1
Fundamental Frequency :5210 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10420.00	Peak	38.20	15.12	53.32	68.20	-14.88

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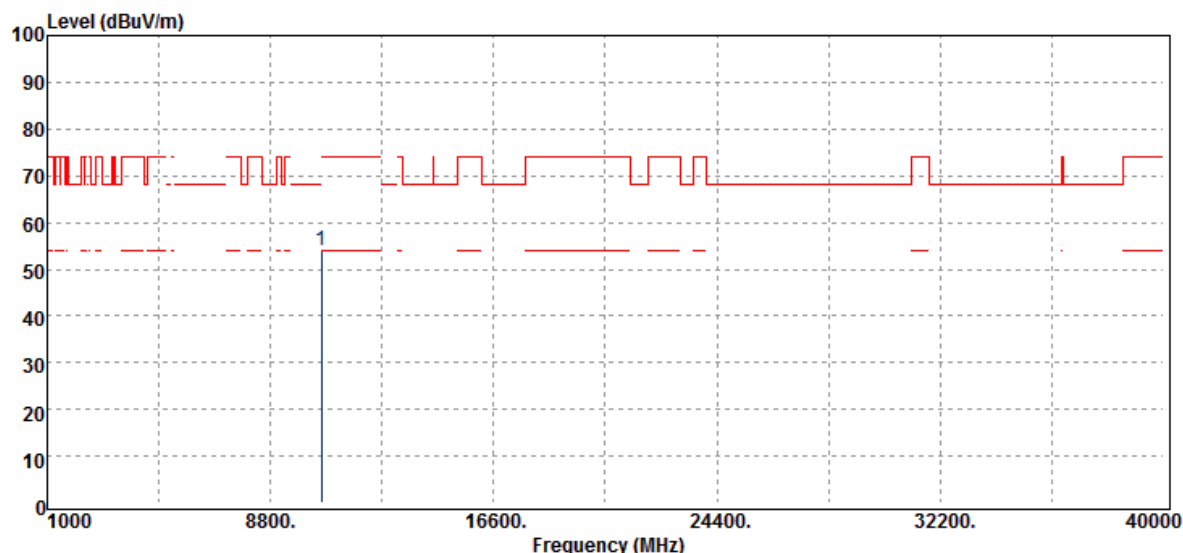
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Band :802.11ac80B2
Fundamental Frequency :5290 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10580.00	Peak	38.56	15.43	53.99	68.20	-14.21

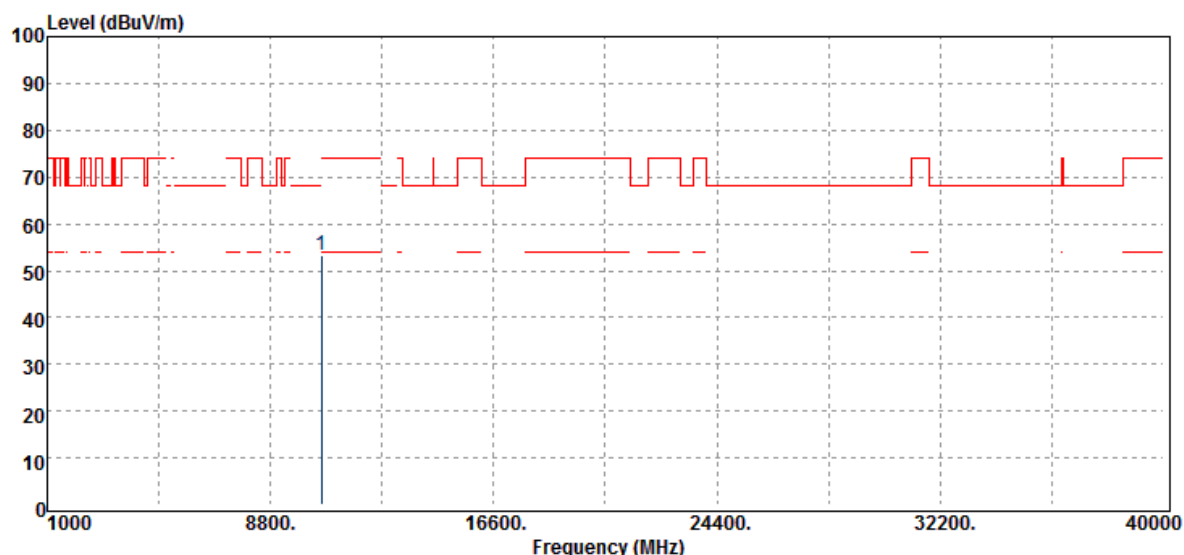
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Operation Band :802.11ac80B2
 Fundamental Frequency :5290 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-09
 Temp./Humi. :20 deg_C / 61 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10580.00	Peak	37.91	15.43	53.34	68.20	-14.86

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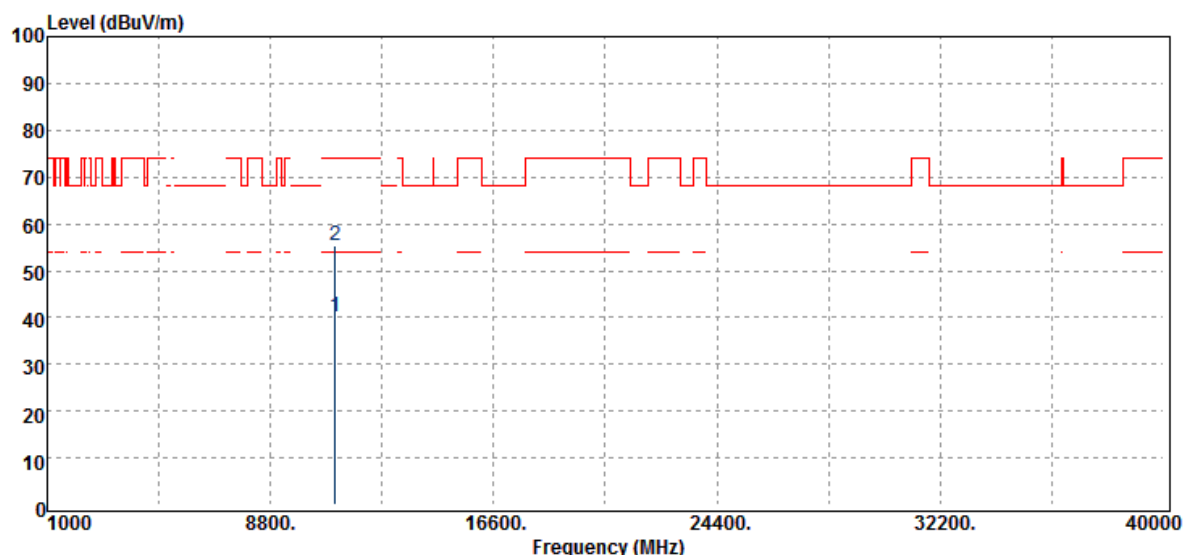
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Band :802.11ac80B3
Fundamental Frequency :5530 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11060.00	Average	22.68	17.50	40.18	54.00	-13.82
11060.00	Peak	37.91	17.50	55.41	74.00	-18.59

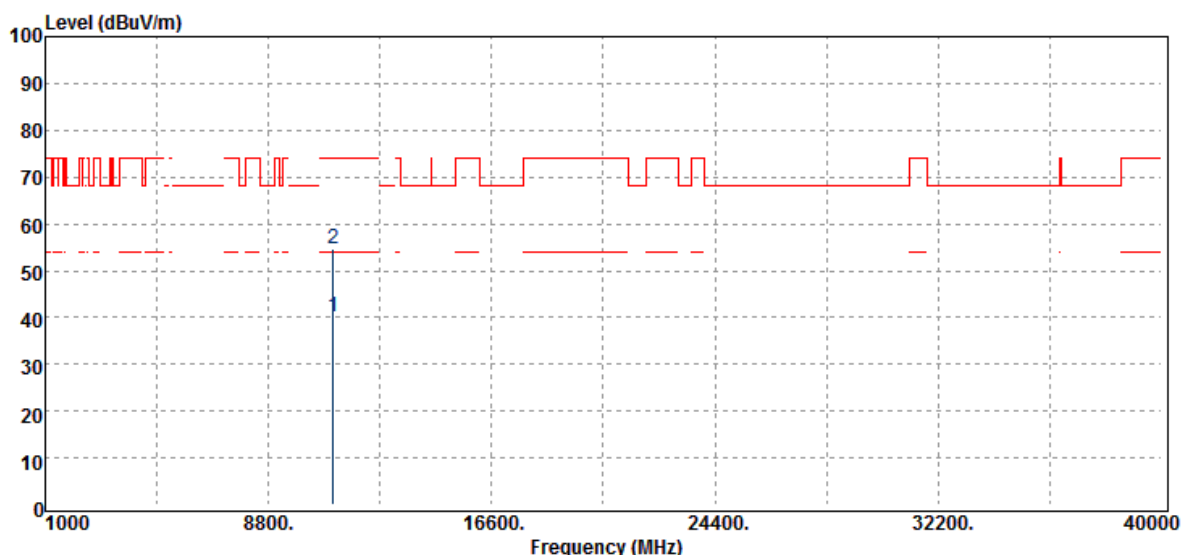
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Operation Band :802.11ac80B3
Fundamental Frequency :5530 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11060.00	Average	22.47	17.50	39.97	54.00	-14.03
11060.00	Peak	37.33	17.50	54.83	74.00	-19.17

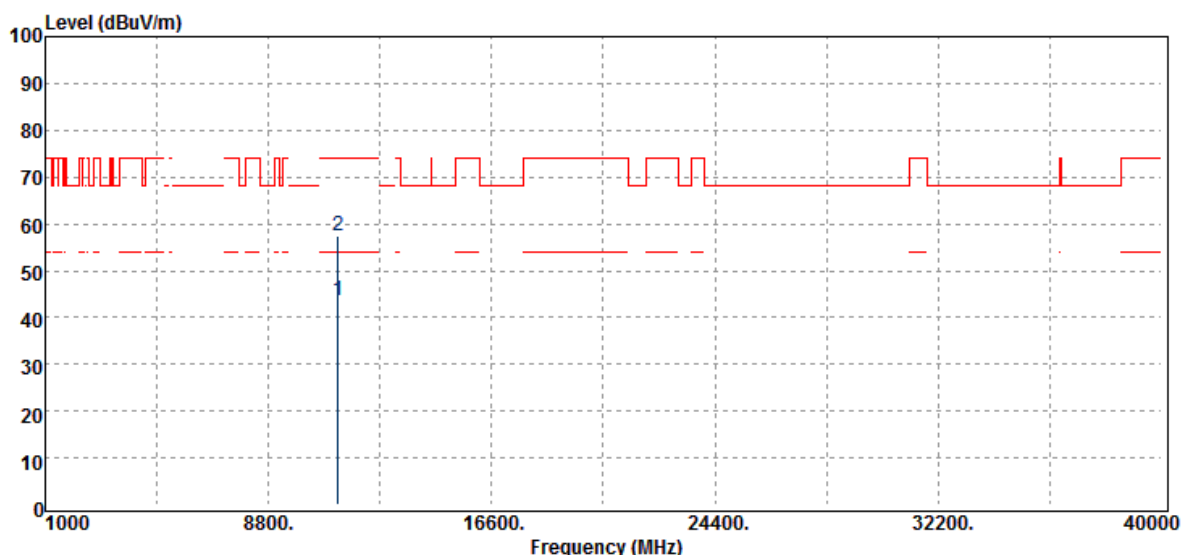
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Operation Band :802.11ac80B3
Fundamental Frequency :5610 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11220.00	Average	26.93	16.53	43.46	54.00	-10.54
11220.00	Peak	40.88	16.53	57.41	74.00	-16.59

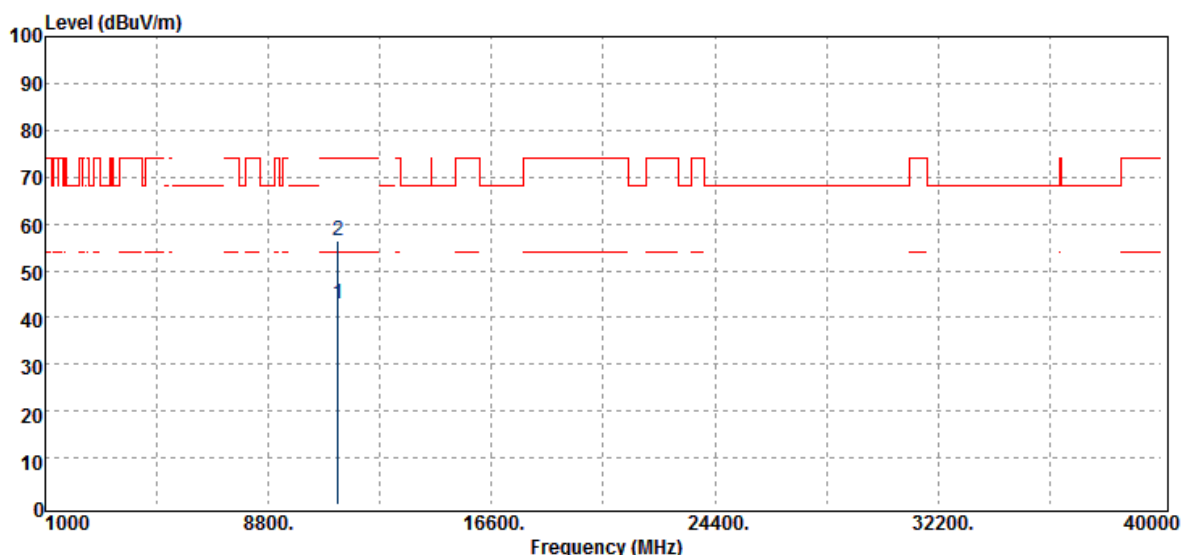
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Operation Band :802.11ac80B3
Fundamental Frequency :5610 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-09
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11220.00	Average	26.34	16.53	42.87	54.00	-11.13
11220.00	Peak	40.02	16.53	56.55	74.00	-17.45

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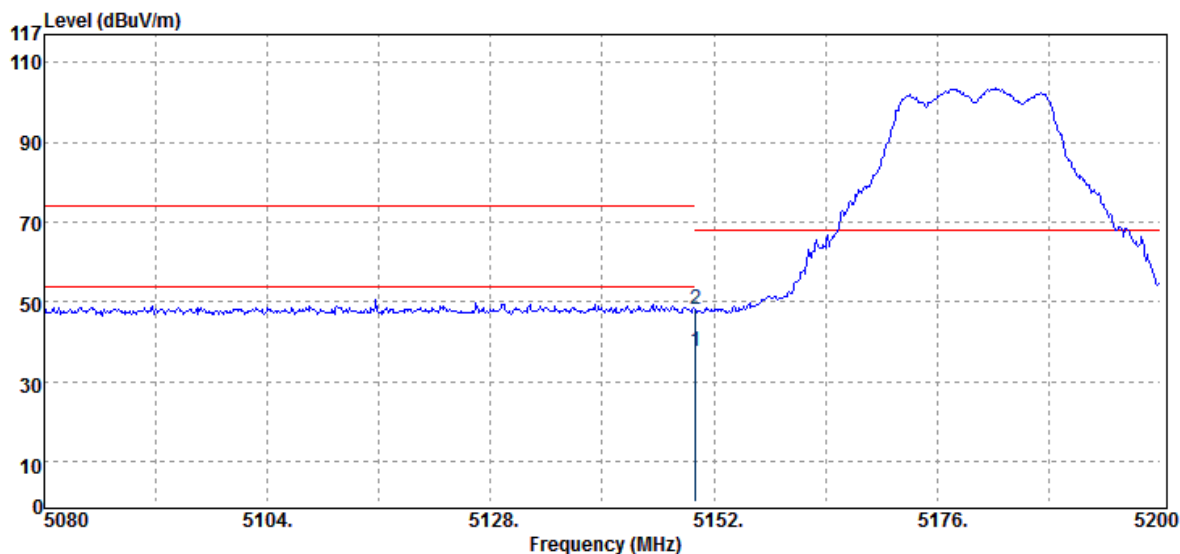
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Band Edge falling to restricted band

802.11a mode

Operation Band :802.11aB1
Fundamental Frequency :5180 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-26
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	32.92	4.54	37.46	54.00	-16.54
5150.00	Peak	43.45	4.54	47.99	74.00	-26.01

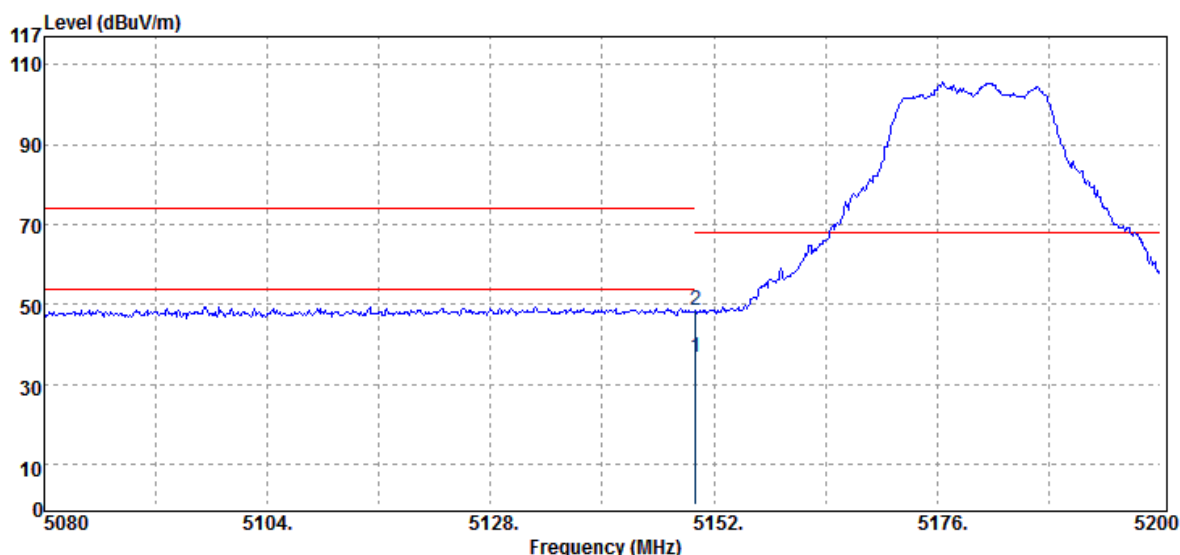
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Operation Band :802.11aB1
Fundamental Frequency :5180 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-26
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	32.41	4.54	36.95	54.00	-17.05
5150.00	Peak	43.93	4.54	48.47	74.00	-25.53

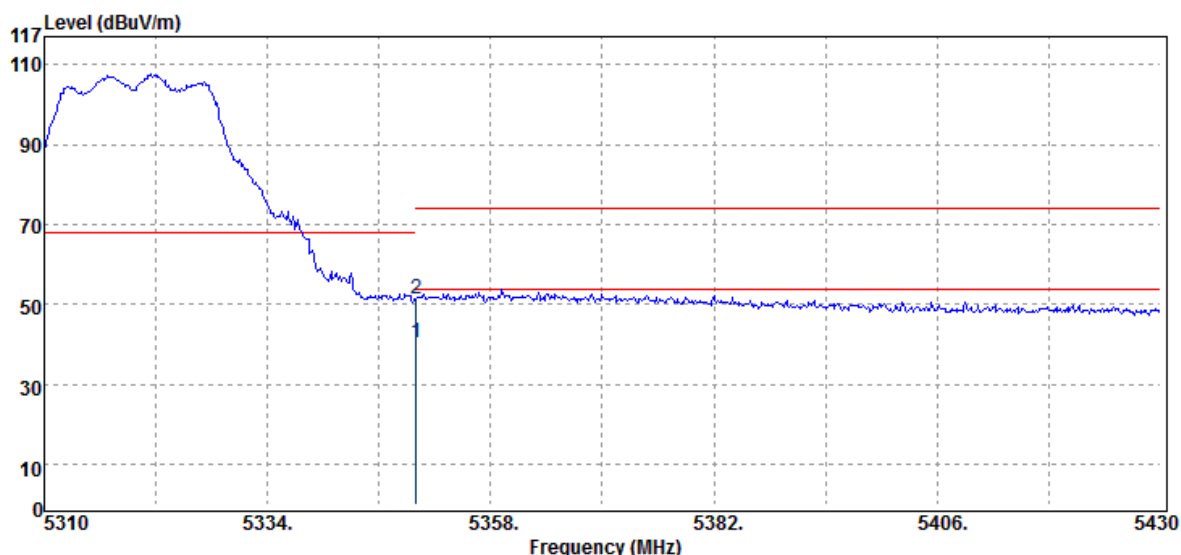
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-26
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	35.17	5.19	40.36	54.00	-13.64
5350.00	Peak	46.39	5.19	51.58	74.00	-22.42

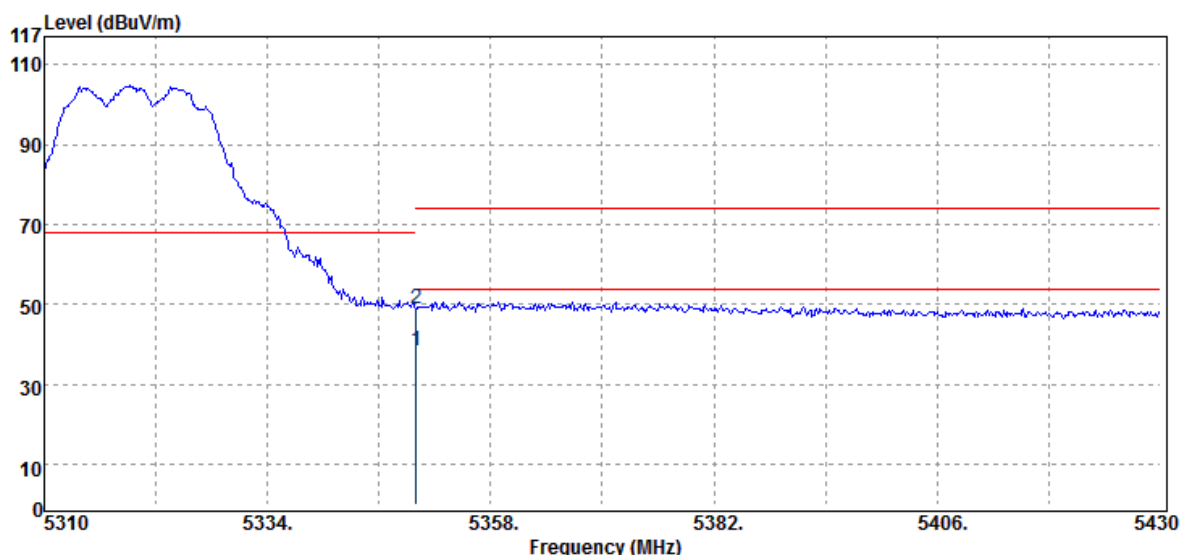
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Operation Band :802.11aB2
Fundamental Frequency :5320 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-26
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	33.31	5.19	38.50	54.00	-15.50
5350.00	Peak	43.84	5.19	49.03	74.00	-24.97

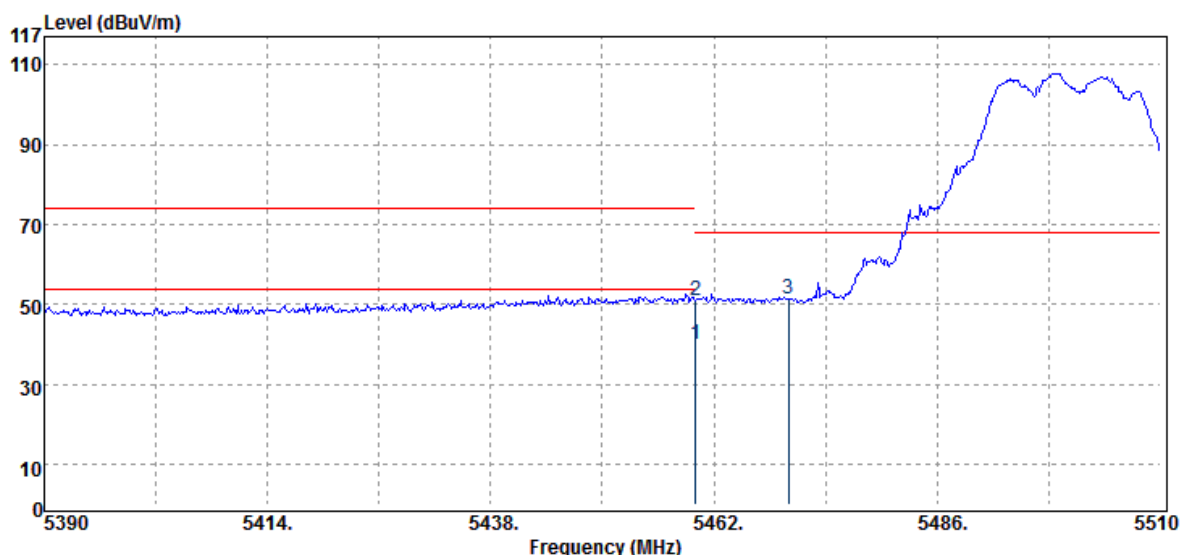
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Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-26
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	34.69	5.54	40.23	54.00	-13.77
5460.00	Peak	45.58	5.54	51.12	74.00	-22.88
5470.00	Peak	45.81	5.52	51.33	68.20	-16.87

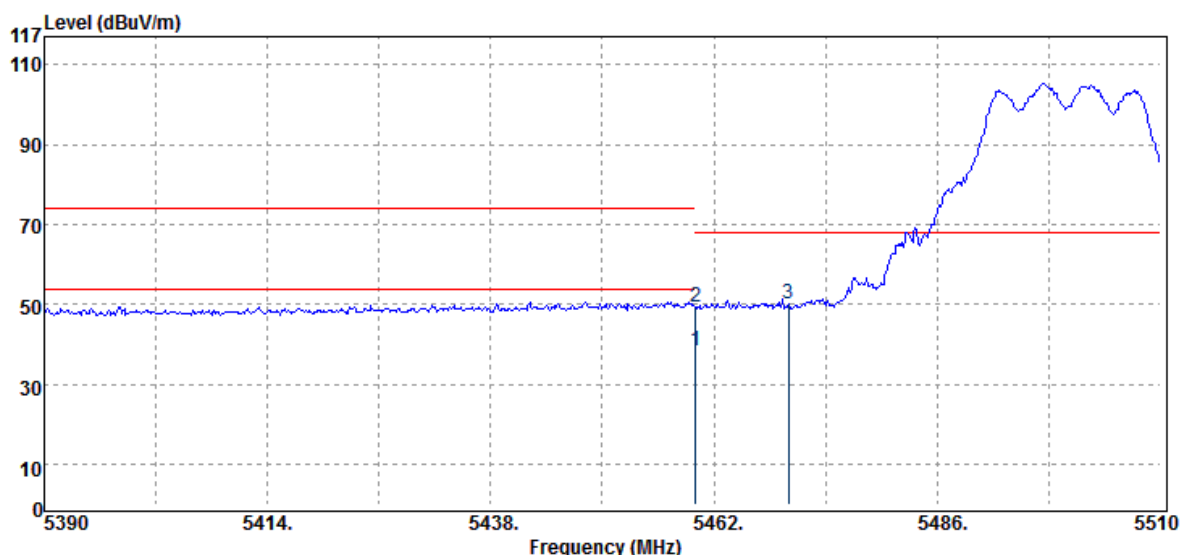
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Operation Band :802.11aB3
Fundamental Frequency :5500 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-26
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	33.07	5.54	38.61	54.00	-15.39
5460.00	Peak	43.91	5.54	49.45	74.00	-24.55
5470.00	Peak	44.54	5.52	50.06	68.20	-18.14

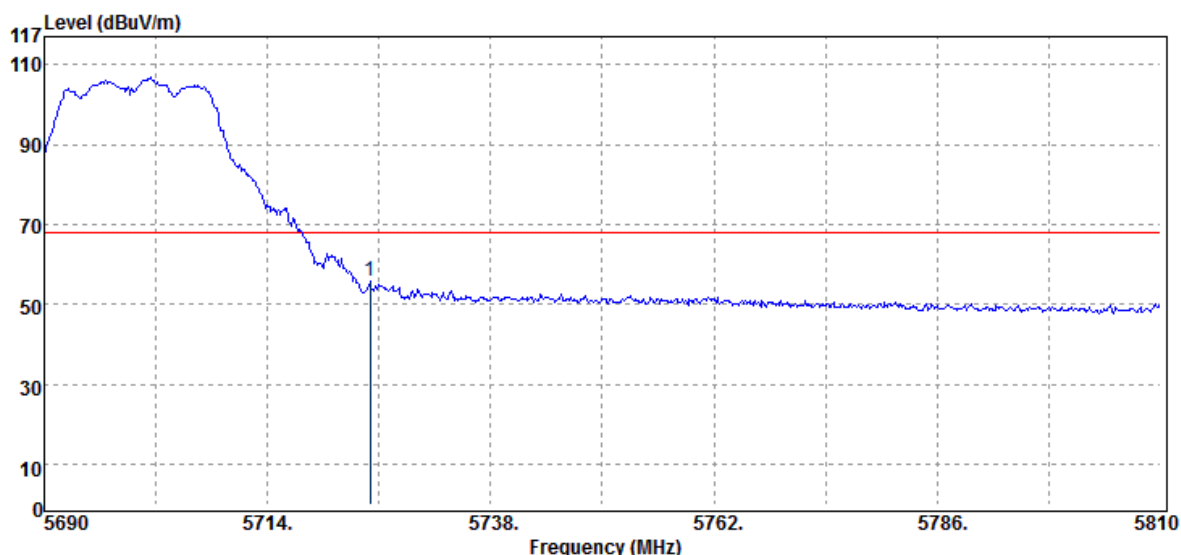
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Operation Band :802.11aB3
Fundamental Frequency :5700 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-26
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	Peak	49.37	6.54	55.91	68.20	-12.29

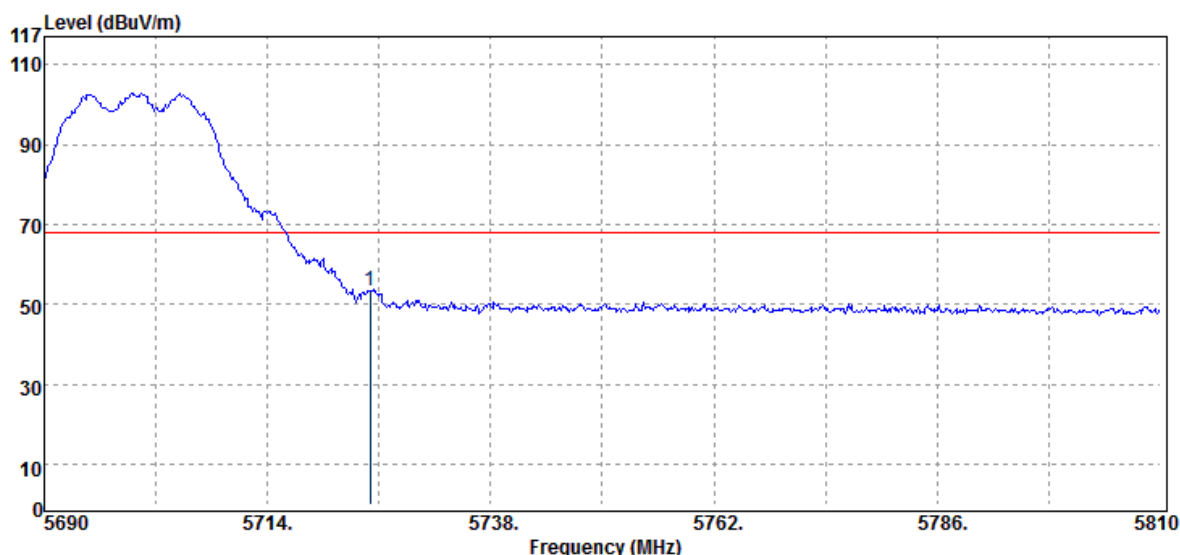
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Operation Band :802.11aB3
Fundamental Frequency :5700 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-26
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	Peak	47.06	6.54	53.60	68.20	-14.60

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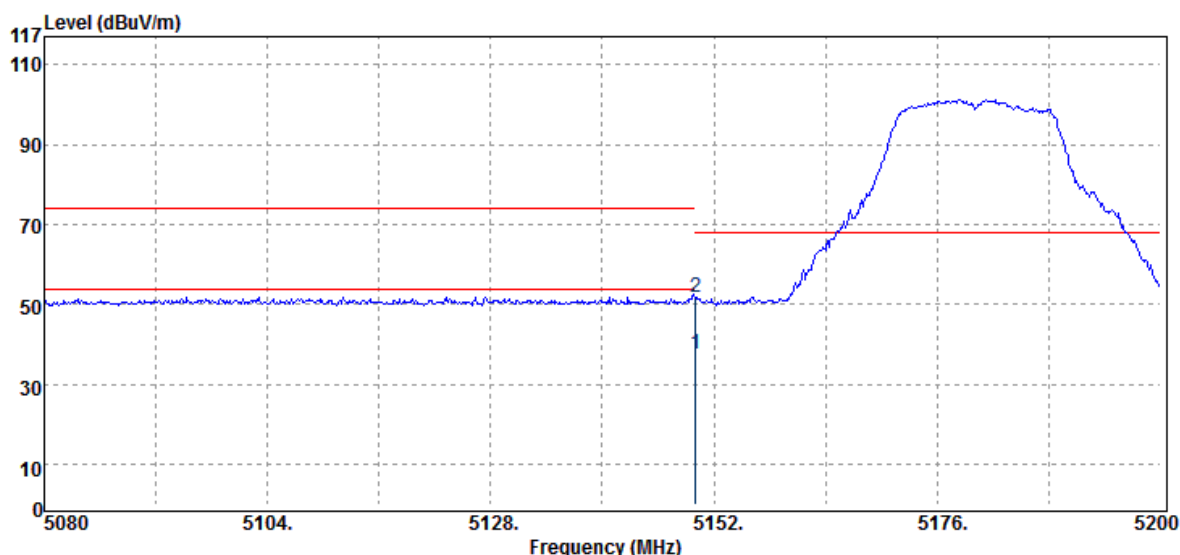
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802.11n20 HT mode

Operation Band :802.11n20B1
Fundamental Frequency :5180 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	33.22	4.55	37.77	54.00	-16.23
5150.00	Peak	47.33	4.55	51.88	74.00	-22.12

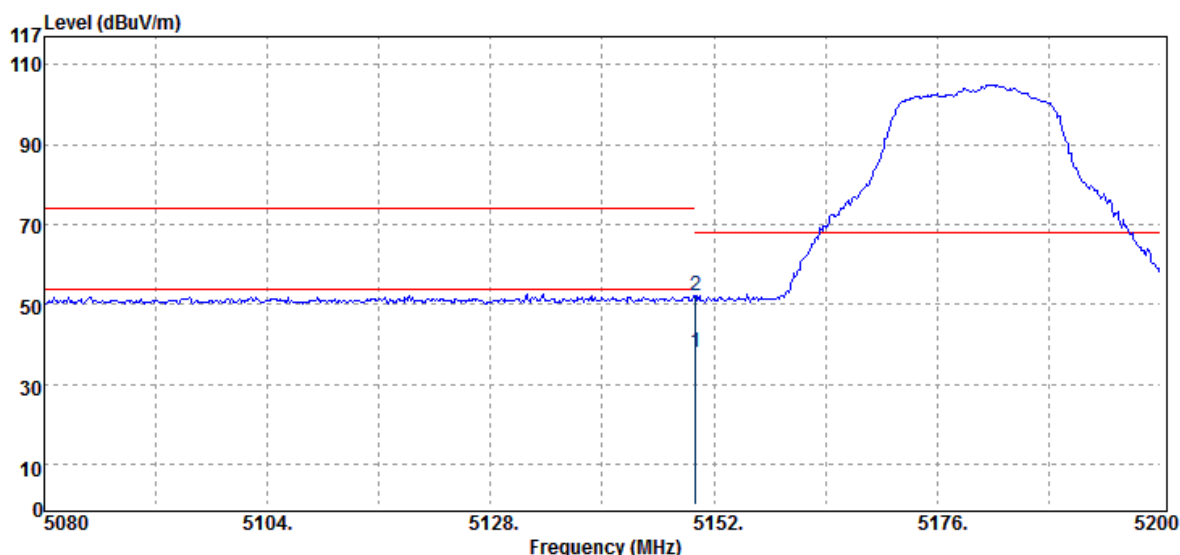
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Operation Band :802.11n20B1
Fundamental Frequency :5180 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	33.57	4.55	38.12	54.00	-15.88
5150.00	Peak	47.85	4.55	52.40	74.00	-21.60

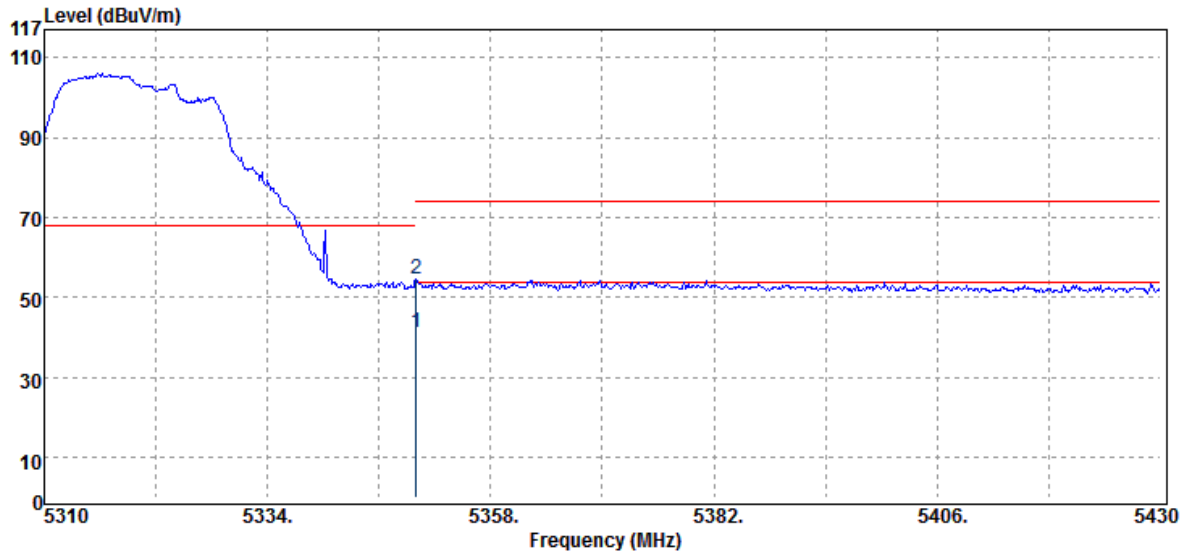
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Operation Band :802.11n20B2
Fundamental Frequency :5320 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	36.12	5.19	41.31	54.00	-12.69
5350.00	Peak	49.61	5.19	54.80	74.00	-19.20

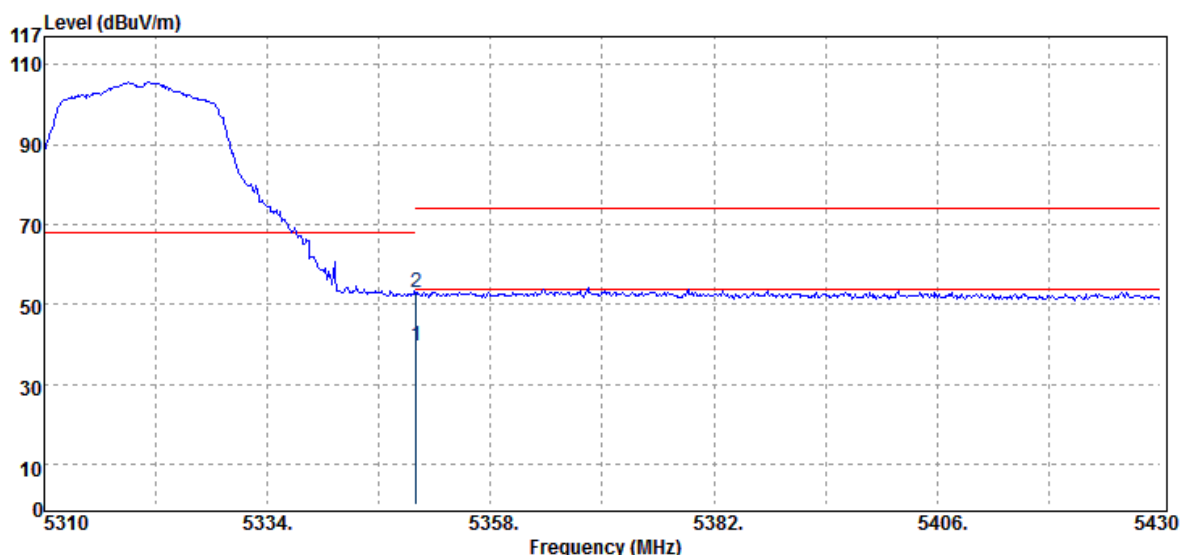
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Operation Band :802.11n20B2
Fundamental Frequency :5320 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	34.33	5.19	39.52	54.00	-14.48
5350.00	Peak	47.68	5.19	52.87	74.00	-21.13

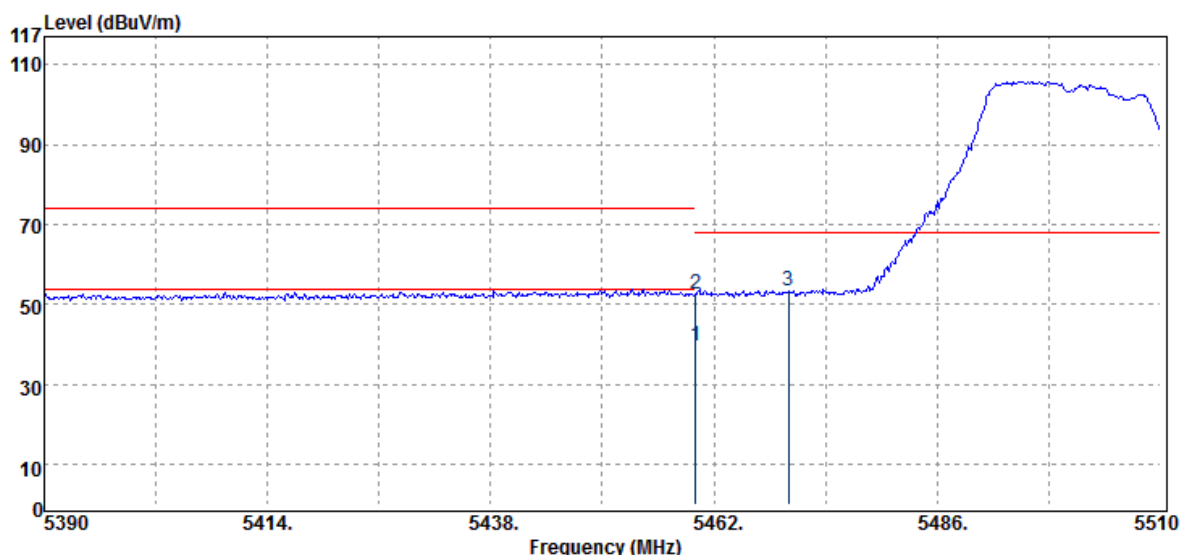
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-07
 Temp./Humi. :20 deg_C / 61 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	34.25	5.54	39.79	54.00	-14.21
5460.00	Peak	47.19	5.54	52.73	74.00	-21.27
5470.00	Peak	47.73	5.52	53.25	68.20	-14.95

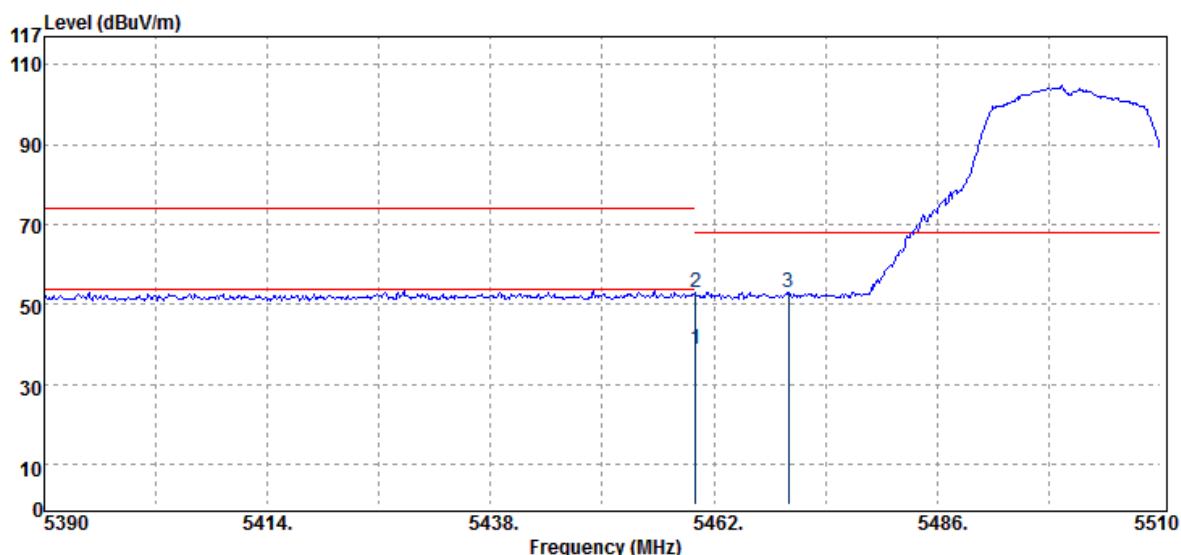
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Operation Band :802.11n20B3
Fundamental Frequency :5500 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	33.51	5.54	39.05	54.00	-14.95
5460.00	Peak	47.49	5.54	53.03	74.00	-20.97
5470.00	Peak	47.46	5.52	52.98	68.20	-15.22

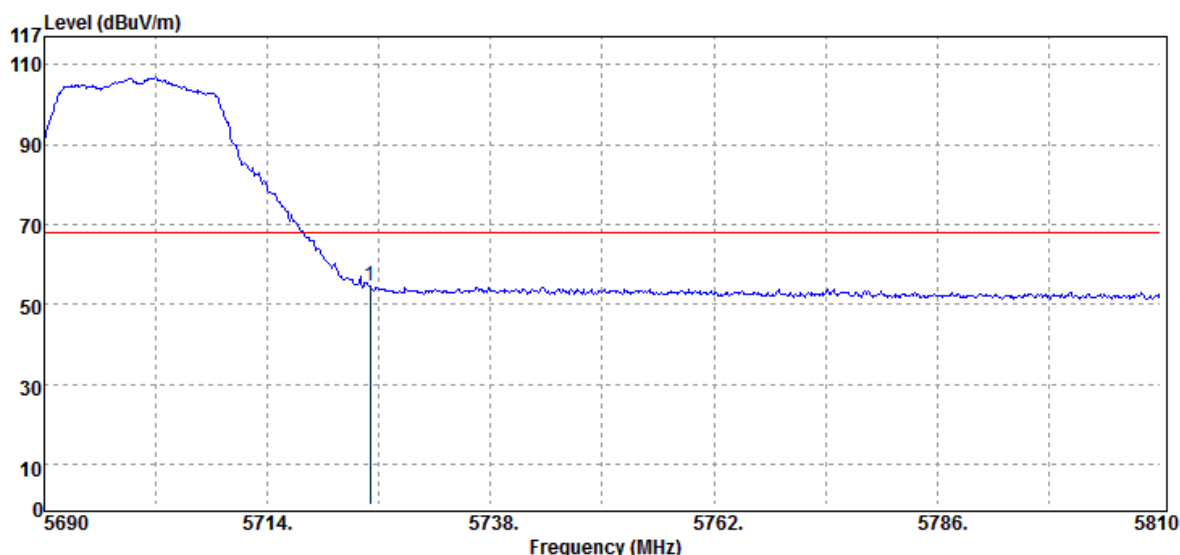
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Operation Band :802.11n20B3
Fundamental Frequency :5700 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	Peak	48.20	6.55	54.75	68.20	-13.45

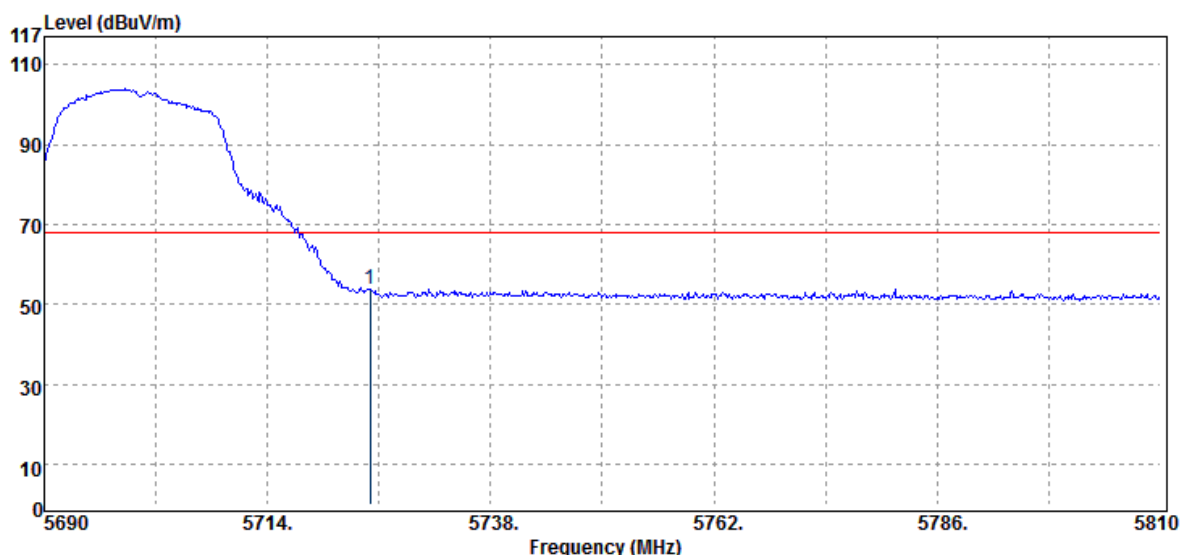
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Operation Band :802.11n20B3
Fundamental Frequency :5700 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



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

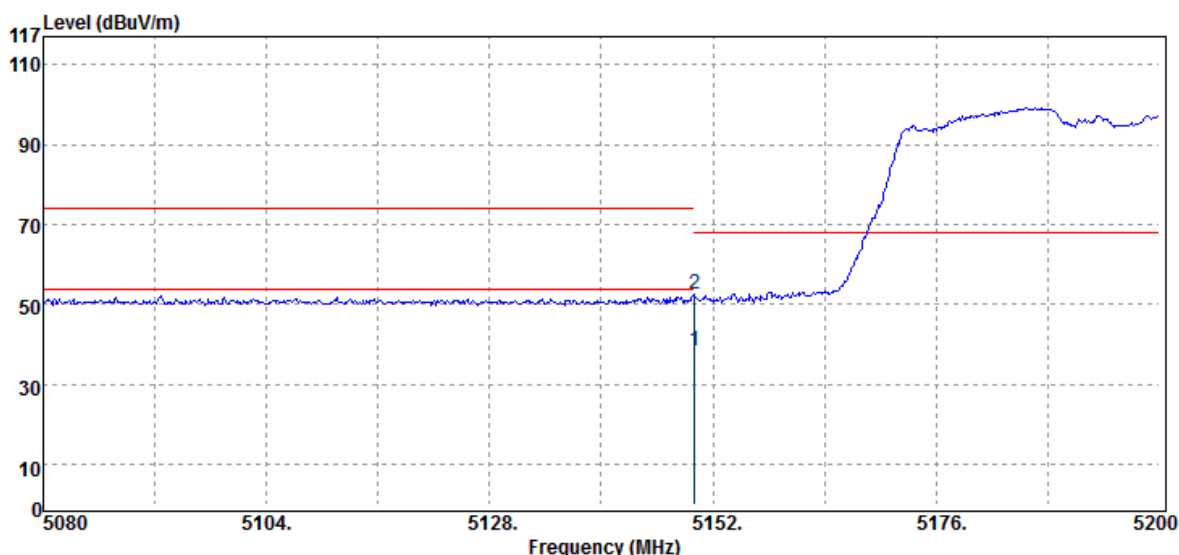
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Operation Band :802.11n40B1
Fundamental Frequency :5190 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	33.94	4.55	38.49	54.00	-15.51
5150.00	Peak	47.95	4.55	52.50	74.00	-21.50

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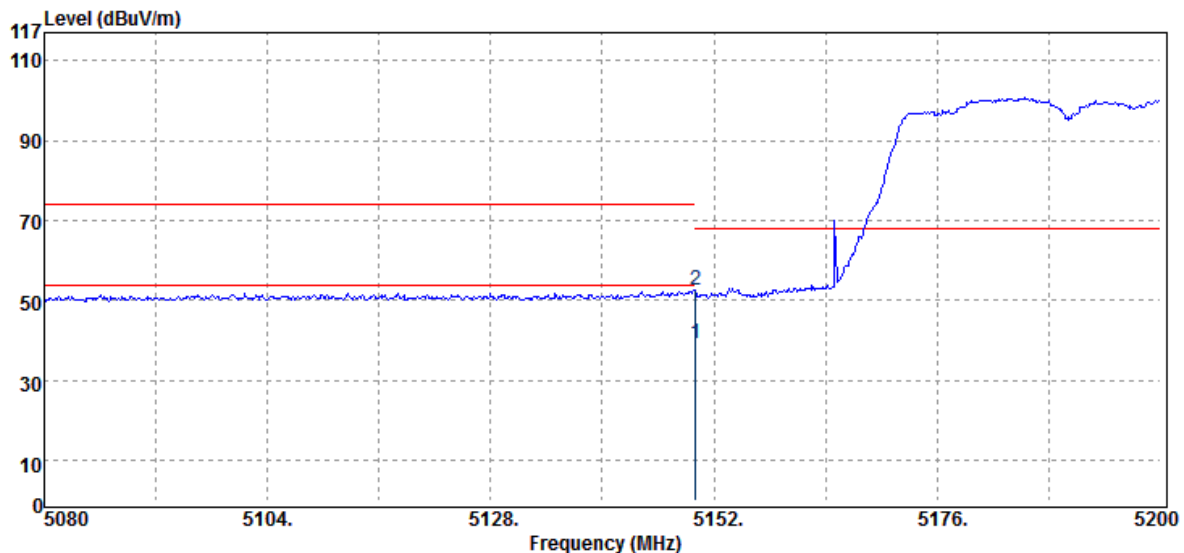
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802.11n40 HT mode

Operation Band :802.11n40B1
Fundamental Frequency :5190 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	34.65	4.55	39.20	54.00	-14.80
5150.00	Peak	48.04	4.55	52.59	74.00	-21.41

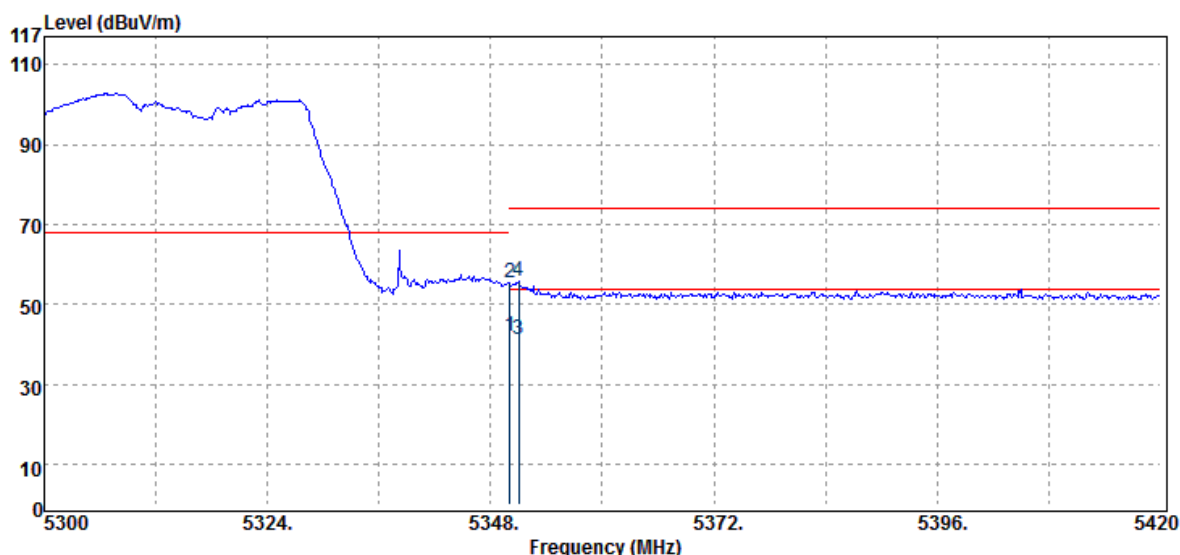
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Operation Band :802.11n40B2
 Fundamental Frequency :5310 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-07
 Temp./Humi. :20 deg_C / 61 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.04	Average	36.87	5.19	42.06	54.00	-11.94
5350.04	Peak	50.13	5.19	55.32	74.00	-18.68
5351.00	Average	36.02	5.20	41.22	54.00	-12.78
5351.00	Peak	50.57	5.20	55.77	74.00	-18.23

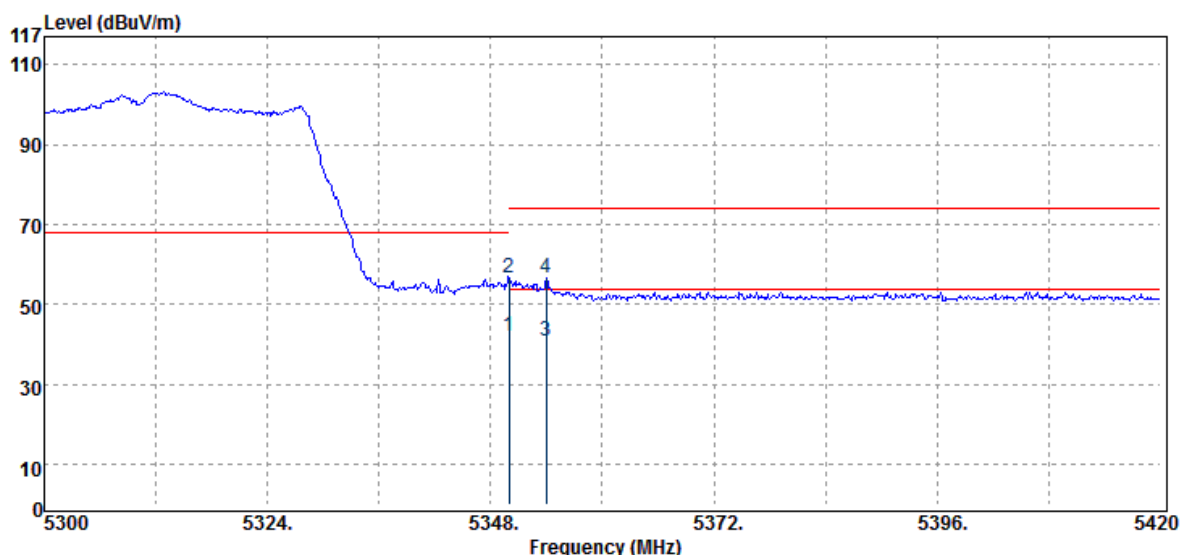
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Operation Band :802.11n40B2
Fundamental Frequency :5310 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	37.11	5.19	42.30	54.00	-11.70
5350.00	Peak	51.48	5.19	56.67	74.00	-17.33
5354.00	Average	35.72	5.20	40.92	54.00	-13.08
5354.00	Peak	51.34	5.20	56.54	74.00	-17.46

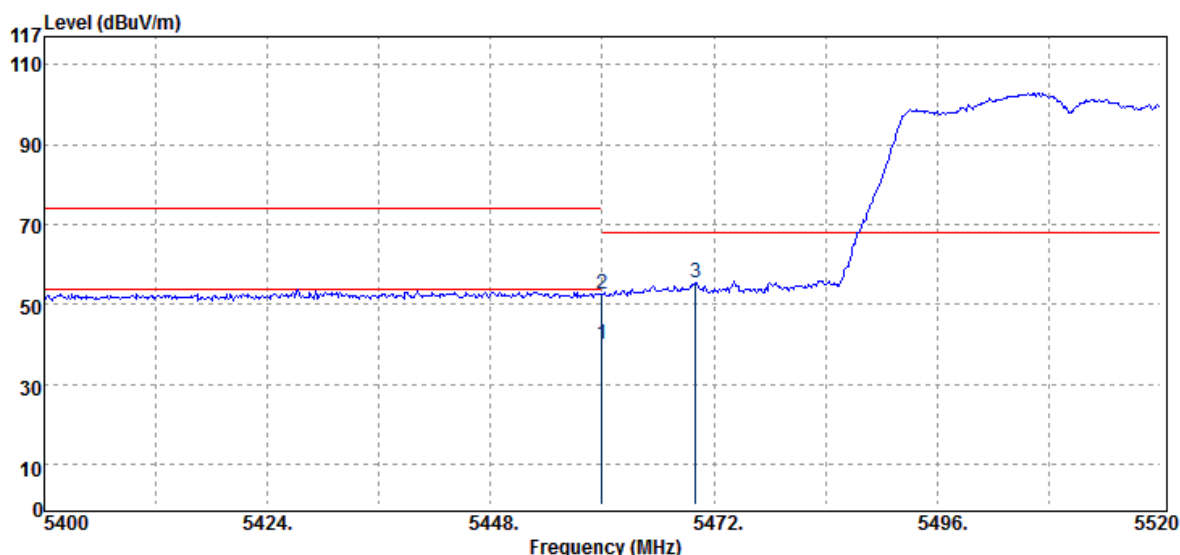
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Operation Band :802.11n40B3
Fundamental Frequency :5510 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	34.66	5.54	40.20	54.00	-13.80
5460.00	Peak	46.92	5.54	52.46	74.00	-21.54
5470.00	Peak	49.80	5.52	55.32	68.20	-12.88

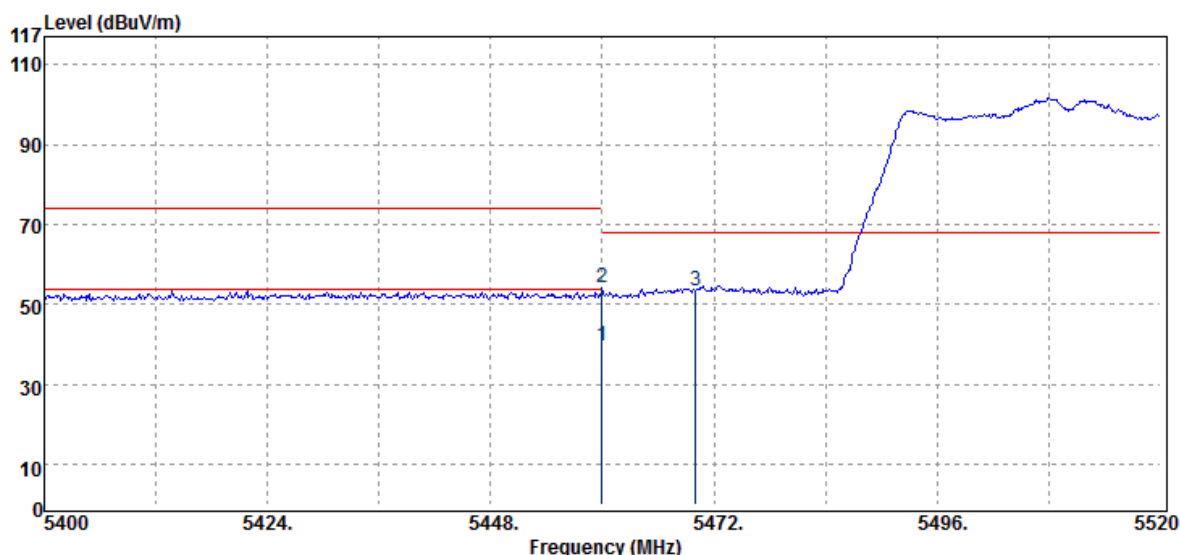
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Operation Band :802.11n40B3
 Fundamental Frequency :5510 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-07
 Temp./Humi. :20 deg_C / 61 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	34.22	5.54	39.76	54.00	-14.24
5460.00	Peak	48.55	5.54	54.09	74.00	-19.91
5470.00	Peak	47.82	5.52	53.34	68.20	-14.86

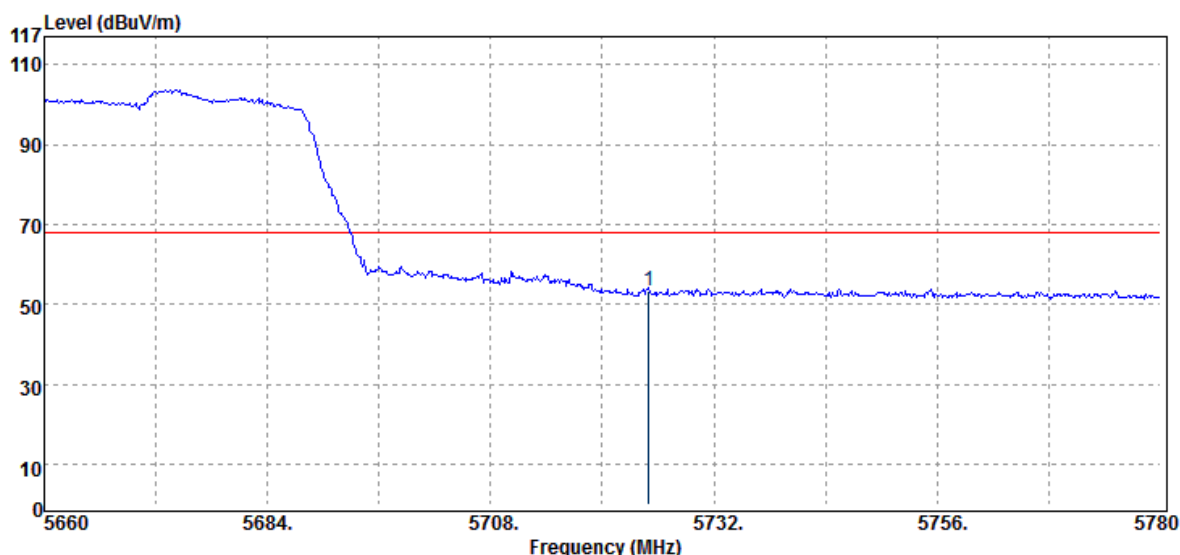
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Operation Band :802.11n40B3
Fundamental Frequency :5670 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	Peak	47.03	6.55	53.58	68.20	-14.62

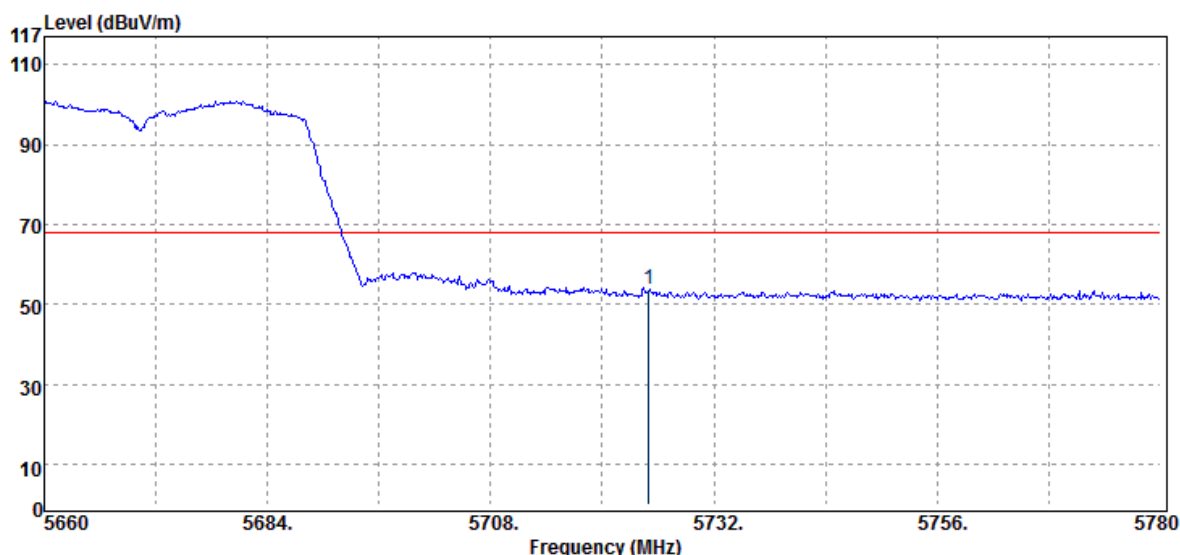
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Operation Band :802.11n40B3
Fundamental Frequency :5670 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	Peak	47.18	6.55	53.73	68.20	-14.47

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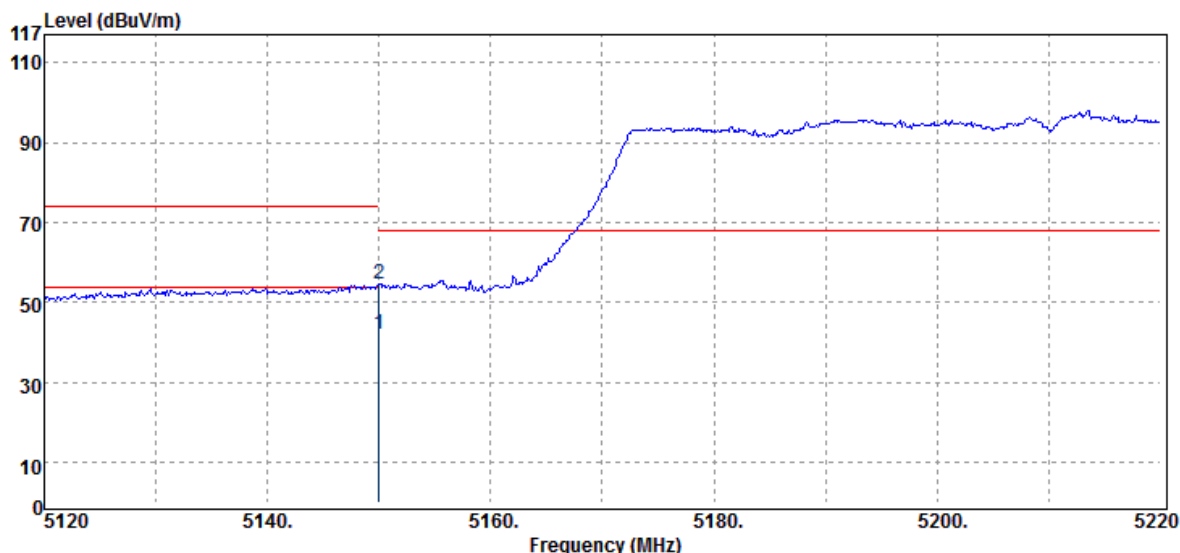
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802.11ac VHT80 mode

Operation Band :802.11ac80B1
Fundamental Frequency :5210 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



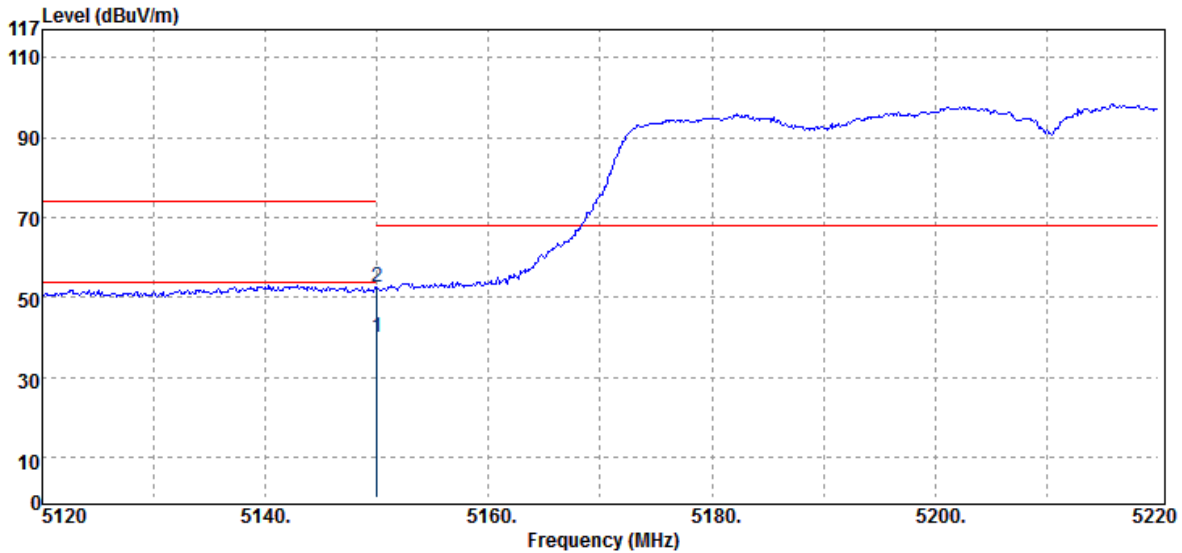
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	37.63	4.55	42.18	54.00	-11.82
5150.00	Peak	50.09	4.55	54.64	74.00	-19.36

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Operation Band	:802.11ac80B1	Test Date	:2019-03-07
Fundamental Frequency	:5210 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	35.54	4.55	40.09	54.00	-13.91
5150.00	Peak	48.14	4.55	52.69	74.00	-21.31

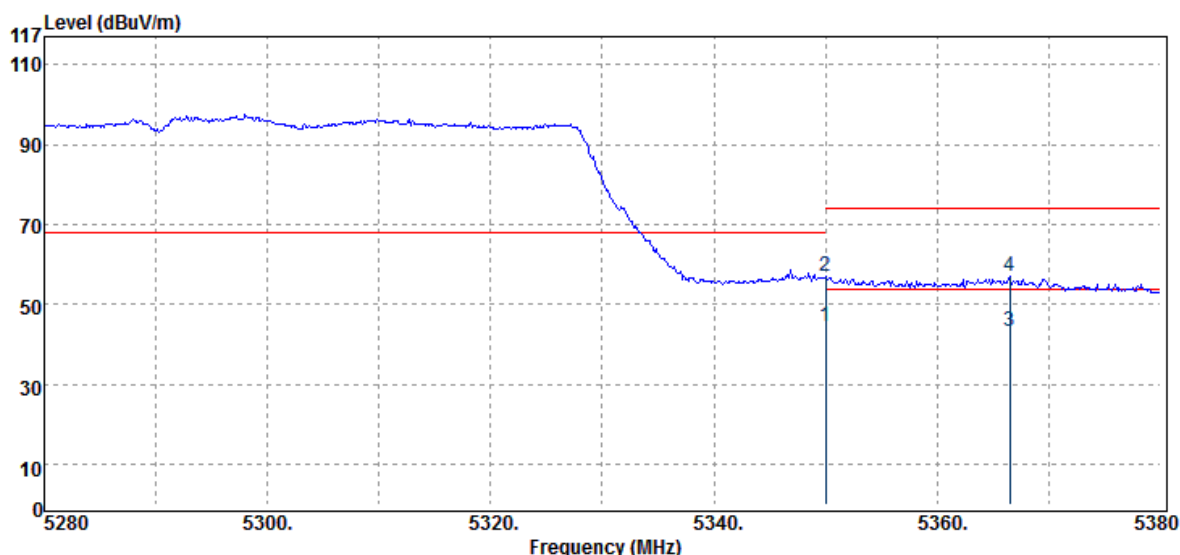
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Operation Band :802.11ac80B2
Fundamental Frequency :5290 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	39.39	5.19	44.58	54.00	-9.42
5350.00	Peak	51.93	5.19	57.12	74.00	-16.88
5366.50	Average	38.09	5.27	43.36	54.00	-10.64
5366.50	Peak	51.71	5.27	56.98	74.00	-17.02

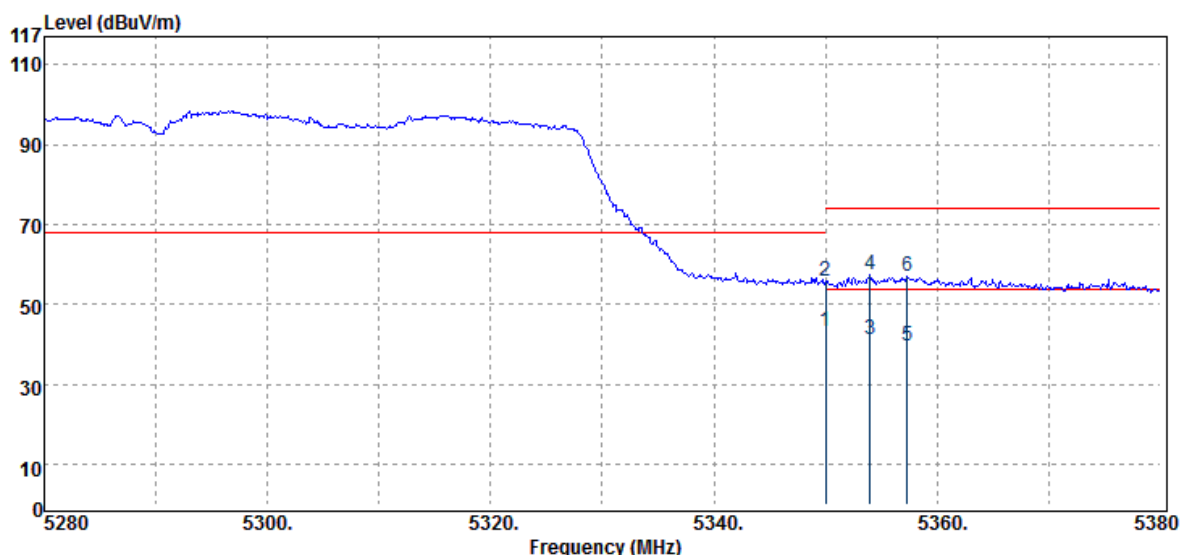
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Operation Band :802.11ac80B2
Fundamental Frequency :5290 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	38.22	5.19	43.41	54.00	-10.59
5350.00	Peak	50.74	5.19	55.93	74.00	-18.07
5354.00	Average	36.02	5.20	41.22	54.00	-12.78
5354.00	Peak	52.20	5.20	57.40	74.00	-16.60
5357.30	Average	34.66	5.21	39.87	54.00	-14.13
5357.30	Peak	51.79	5.21	57.00	74.00	-17.00

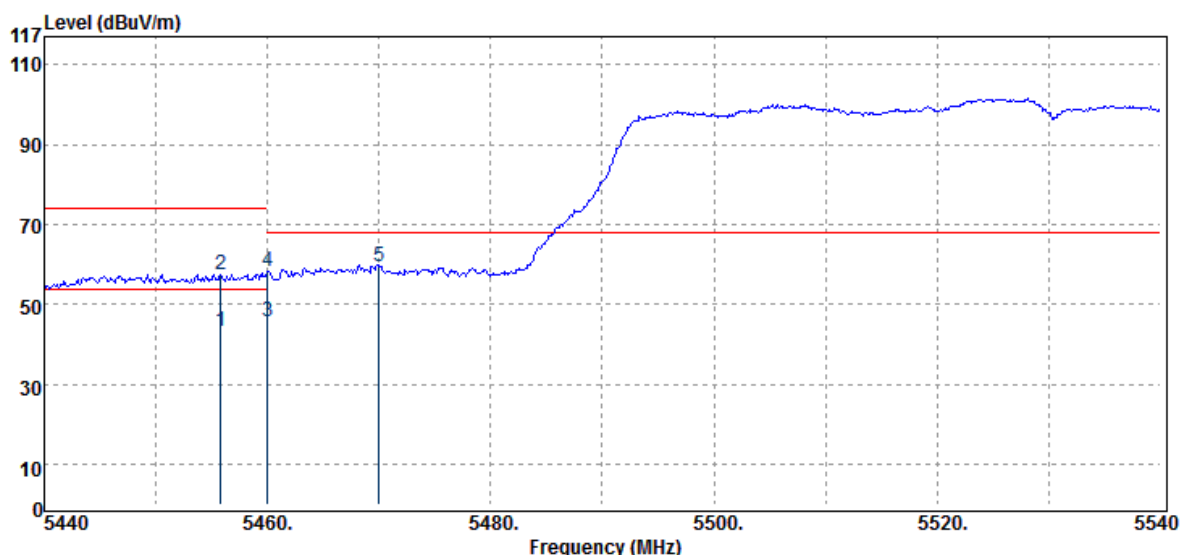
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Operation Band :802.11ac80B3
Fundamental Frequency :5530 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5455.80	Average	37.74	5.54	43.28	54.00	-10.72
5455.80	Peak	51.95	5.54	57.49	74.00	-16.51
5460.00	Average	40.05	5.54	45.59	54.00	-8.41
5460.00	Peak	52.69	5.54	58.23	74.00	-15.77
5470.00	Peak	54.16	5.52	59.68	68.20	-8.52

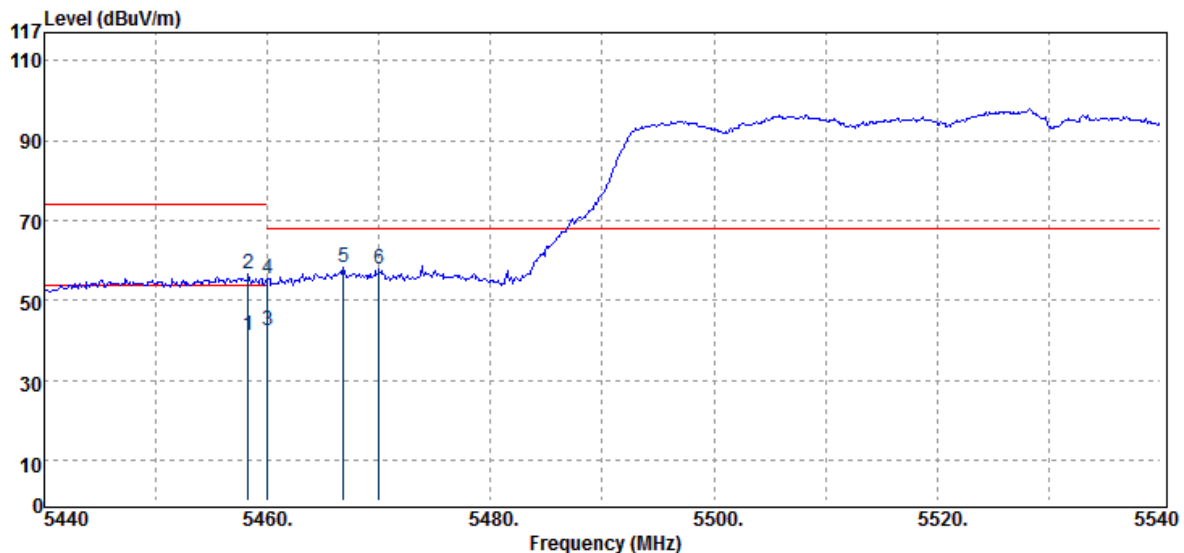
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-07
 Temp./Humi. :20 deg_C / 61 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5458.30	Average	35.91	5.53	41.44	54.00	-12.56
5458.30	Peak	51.19	5.53	56.72	74.00	-17.28
5460.00	Average	36.90	5.54	42.44	54.00	-11.56
5460.00	Peak	49.99	5.54	55.53	74.00	-18.47
5466.80	Peak	52.57	5.53	58.10	68.20	-10.10
5470.00	Peak	52.22	5.52	57.74	68.20	-10.46

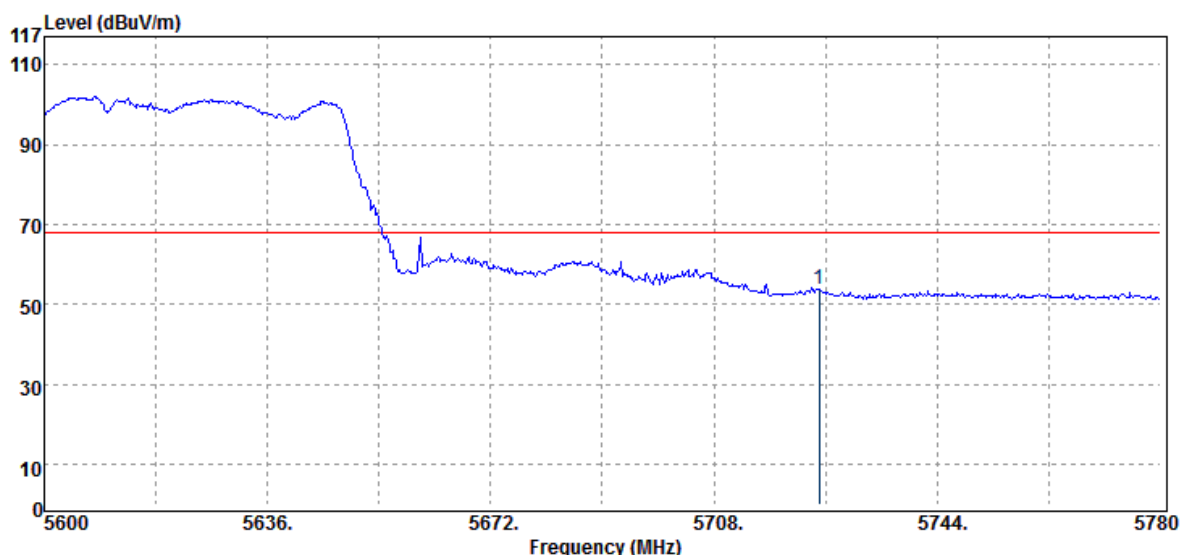
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Operation Band :802.11ac80B3
Fundamental Frequency :5610 MHz
Operation Mode :Bandedge CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	Peak	47.15	6.55	53.70	68.20	-14.50

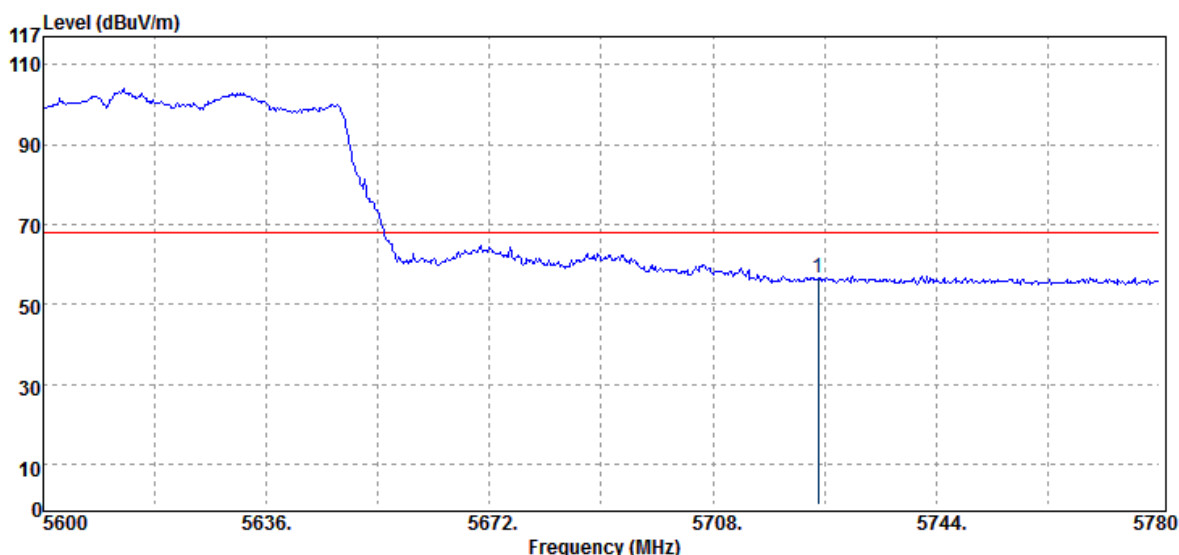
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Operation Band :802.11ac80B3
Fundamental Frequency :5610 MHz
Operation Mode :Bandedge CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-07
Temp./Humi. :20 deg_C / 61 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	Peak	50.25	6.55	56.80	68.20	-11.40

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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

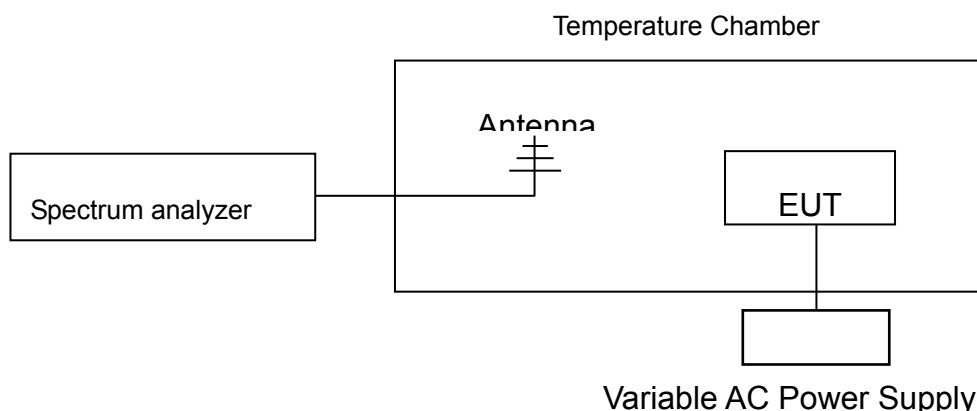
13.1 Standard Applicable

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



13.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	KR93300208	08/15/2018	08/14/2019
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/09/2018	04/08/2019
Thermostat-ic/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2019.03.08
Temperature	:22.6 °C	Test By	Peter
Humidity	: 55%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4	36	5180	5,179.98439	0.00000301
	3.7	36	5180	5,179.98176	0.00000352
25	3.85	36	5180	5,179.99402	0.00000115
55	4	36	5180	5,179.98472	0.00000295
	3.7	36	5180	5,179.98962	0.00000200

2 Minutes:

Operation Mode	802.11 a	Test Date	2019.03.08
Temperature	:22.6 °C	Test By	Peter
Humidity	: 55%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4	36	5180	5,179.99698	0.00000058
	3.7	36	5180	5,179.99920	0.00000015
25	3.85	36	5180	5,179.99740	0.00000050
55	4	36	5180	5,179.99455	0.00000105
	3.7	36	5180	5,179.99884	0.00000022

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5 Minutes:

Operation Mode	802.11 a	Test Date	2019.03.08
Temperature	:22.6 °C	Test By	Peter
Humidity	: 55%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4	36	5180	5,179.98280	0.00000332
	3.7	36	5180	5,179.99377	0.00000120
25	3.85	36	5180	5,179.98223	0.00000343
55	4	36	5180	5,179.99197	0.00000155
	3.7	36	5180	5,179.98822	0.00000227

10 Minutes:

Operation Mode	802.11 a	Test Date	2019.03.08
Temperature	:22.6 °C	Test By	Peter
Humidity	: 55%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4	36	5180	5,179.99796	0.00000039
	3.7	36	5180	5,179.98679	0.00000255
25	3.85	36	5180	5,179.99186	0.00000157
55	4	36	5180	5,179.98398	0.00000309
	3.7	36	5180	5,179.98771	0.00000237

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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.

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