

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT OF

Product Name: Embedded wireless module
Brand Name: Silex
Model No.: SX-SDMAC-2832S, SX-SDMAC-2832S+
Model Difference: For market segmentation
FCC ID: N6C-PMACS
Report No.: ER/2017/70043
Issue Date: Jul. 28, 2017
FCC Rule Part: §15.407
Prepared for: silex technology, Inc
2-3-1 Hikaridai, Seika-cho, Souraku-gun, Kyoto
619-0237
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Electronics & Communication Laboratory
Prepared by: No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803



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VERIFICATION OF COMPLIANCE

Applicant: silex technology, Inc
2-3-1Hikaridai, Seika-cho, Souraku-gun, Kyoto 619-0237

Product Name: Embedded wireless module

Brand Name: Silex

Model No.: SX-SDMAC-2832S, SX-SDMAC-2832S+

Model Difference: For market segmentation

FCC ID: N6C-PMACS

File Number: ER/2017/70043

Date of Test: Jul. 20, 2017(Conducted), Jul. 04, 2017 ~ Jul. 19, 2017(Radiated)

Date of EUT Received: Jul. 04, 2017

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

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

Test By:

Cooper Hsu

Date:

Jul. 28, 2017

Cooper Hsu / Engineer

Prepared By:

Allen Tsai

Date:

Jul. 28, 2017

Allen Tsai / Engineer

Approved By:

Jim Chang

Date:

Jul. 28, 2017

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2017/70043	Rev.00	Initial creation of document	Jul. 28, 2017

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Embedded wireless module
Brand Name:	Silex
Model No.:	SX-SDMAC-2832S, SX-SDMAC-2832S+
Model Difference:	For market segmentation
Software version:	N/A
Hardware version:	N/A
Power Supply:	3.3V from DC Power Supply

WLAN 5GHz:

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (Avg.) (dBm)	Modulation Technology
a	5150~5250	4	9.92	OFDM
	5250~5350	4	9.97	
	5470~5725	12	9.95	
	5725-5850	5	9.92	
n_HT ac_VHT 20M	5150~5250	4	HT: 11.00 (Worst Case)	OFDM
	5250~5350	4	HT: 11.00 (Worst Case)	
	5470~5725	11	HT: 11.00 (Worst Case)	
	5725-5850	5	HT: 11.00 (Worst Case)	
n_HT ac_VHT 40M	5150~5250	2	HT: 9.82 (Worst Case)	OFDM
	5250~5350	2	HT: 9.92 (Worst Case)	
	5470~5725	5	HT: 9.92 (Worst Case)	
	5725-5850	2	HT: 9.76 (Worst Case)	
ac_VHT 80M	5150~5250	1	9.05	OFDM
	5250~5350	1	9.05	
	5470~5725	2	8.77	
	5725-5850	1	8.82	
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 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps 802.11 ac_20MHz: 6.5 –86.7Mbps 802.11 ac_40MHz: 13.5 -200.0Mbps 802.11 ac_80MHz: 29.3 – 433.3Mbps		

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Antenna Type	Supplier	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)	Worst Antenna Gain
PCB type di-pole antenna	Molex	146153	5GHz	5.0	V
	Unictron	AA258 (H2B1PC1A1C)	5GHz	4.4	
	Unictron	AA222 (H2B1PD1A1C)	5GHz	4.2	
	PFU	PA391-222	5GHz	3.0	

Note: Pre-scanned was done on the above 4 antennas, the 146153 results higher emission at 5GHz. Therefore, the completed set of measurement was done on the antenna to be presented on this test report.

1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 662911 D01 Multiple Transmitter Output

FCC KDB 644545 D03 Guidance for IEEE 802.11ac

ANSI C63.10:2013

Note:

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

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 (TAF code 0513)

FCC Registration Numbers are: 509634

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 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.

Following shows an offset computation example with cable loss 3.6dB, and 10dB attenuator.

MIMO mode offset

= RF cable loss (3.6dB)+ attenuation factor(10dB) =13.6(dB)

2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

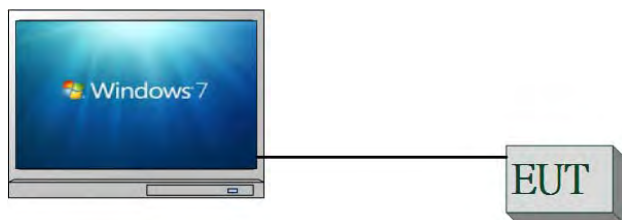


Fig. 2-2 Conducted (Antenna Port) Configuration Emission

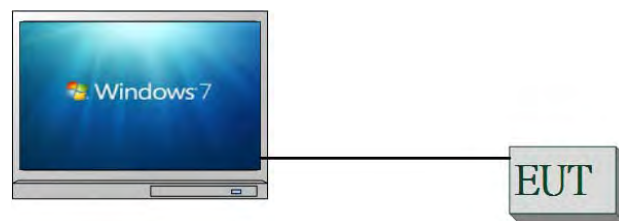


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Notebook	Lenovo	L440	R9-007LAZ	Shielded	Unshielded
2.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(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
§15.407(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

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Operated band in 5500 MHz ~5700 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

Operated band in 5745 MHz ~5850 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
149	5745
153	5765
157	5785
161	5805
165	5825

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
151	5755
159	5795

802.11ac VHT80 Mode	
channel	Frequency
155	5775

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	SISO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	SISO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	SISO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	SISO
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	SISO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	SISO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	SISO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	SISO
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	SISO
802.11n_HT20				OFDM	MCS8	SISO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	SISO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	SISO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	SISO
802.11n_HT20				OFDM	MCS8	SISO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	SISO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	SISO

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5720	100 to 144	100,116,140	OFDM	6	SISO
802.11n_HT20				OFDM	MCS8	SISO
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS8	SISO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	SISO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	SISO
802.11n_HT20				OFDM	MCS8	SISO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	SISO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	SISO

Note:

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

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	SISO
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	SISO
802.11n_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS8	SISO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	SISO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	SISO
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	SISO
802.11n_HT40 802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS8	SISO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	SISO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	SISO
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	SISO
802.11n_HT40 802.11ac_VHT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	SISO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	SISO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	SISO
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	SISO
802.11n_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS8	SISO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	SISO

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5 MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz-30MHz: +/-2.87dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESC17	100760	05/11/2017	05/10/2018
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/22/2017	05/21/2018
LISN	MESS TEC	FCC-LISN-50/2 50-25-2-01	4034	03/19/2017	03/18/2018
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2016	11/25/2017

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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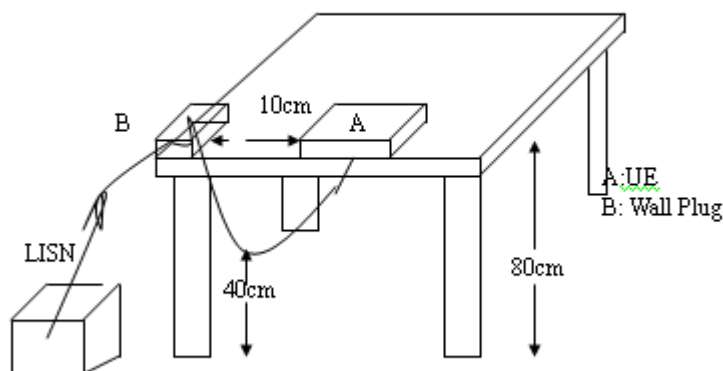
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6.4 Test SET-UP



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

Site: Conduction Room

Phase: L1

Temperature: 20.0 °C

Limit: FCC Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 58 %

Mode: Operation

Note:

Conducted Emission

File :Data

Data :#1

Date: 2017/7/11

Time: 下午 11:40:25



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1700	30.32	0.12	30.44	64.96	-34.52	peak	
2		0.2660	27.62	0.12	27.74	61.24	-33.50	peak	
3 *		0.4540	34.46	0.11	34.57	56.80	-22.23	peak	
4		0.7340	16.27	0.12	16.39	56.00	-39.61	peak	
5		4.5500	18.93	0.26	19.19	56.00	-36.81	peak	
6		28.3780	27.26	0.84	28.10	60.00	-31.90	peak	

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Site: Conduction Room

Phase: **N**

Temperature: 20 °C

Limit: FCC Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 58 %

Mode: Operation

Note:

Conducted Emission

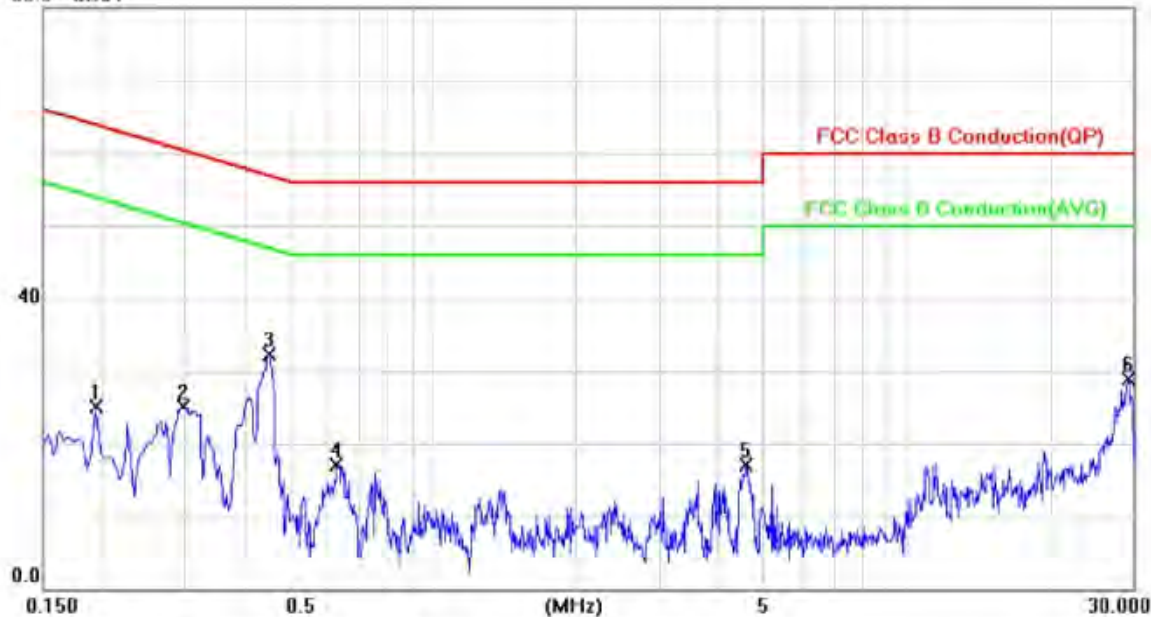
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Date: 2017/7/11

Time: 下午 11:40:57

80.0 dBuV



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1940	25.08	0.12	25.20	63.86	-38.66	peak	
2		0.2980	25.03	0.12	25.15	60.30	-35.15	peak	
3 *		0.4500	32.28	0.11	32.39	56.88	-24.49	peak	
4		0.6260	17.05	0.11	17.16	56.00	-38.84	peak	
5		4.5820	16.76	0.27	17.03	56.00	-38.97	peak	
6		29.2900	28.00	0.86	28.86	60.00	-31.14	peak	

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Site: Conduction Room

Limit: FCC Class B Conduction(QP)

Mode: Operation

Note:

Phase: N

Power: AC 110V/60Hz

Temperature: 20 °C

Humidity: 58 %

Conducted Emission

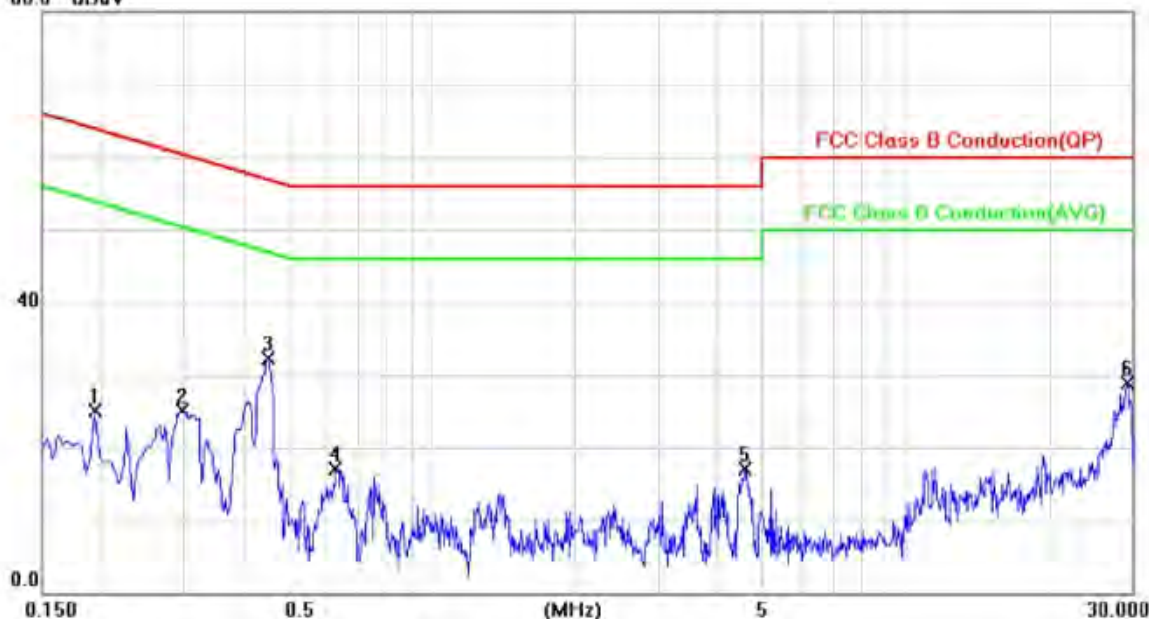
File :Data

Data :#2

Date: 2017/7/11

Time: 下午 11:40:57

80.0 dBuV



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1940	25.08	0.12	25.20	63.86	-38.66	peak	
2		0.2980	25.03	0.12	25.15	60.30	-35.15	peak	
3 *		0.4500	32.28	0.11	32.39	56.88	-24.49	peak	
4		0.6260	17.05	0.11	17.16	56.00	-38.84	peak	
5		4.5820	16.76	0.27	17.03	56.00	-38.97	peak	
6		29.2900	28.00	0.86	28.86	60.00	-31.14	peak	

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7 DUTY CYCLE TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

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)
802.11a	95.51	0.20
802.11n_20	95.45	0.20
802.11ac_20	95.00	0.22
802.11n_40	90.77	0.42
802.11ac_40	90.56	0.43
802.11ac_80	83.59	0.78

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9551) = 0.2$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9545) = 0.2$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.95) = 0.22$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9077) = 0.42$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9056) = 0.43$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8359) = 0.78$$

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DUTY CYCLE TEST SIGNAL Measurement Result

802.11a



802.11n HT20



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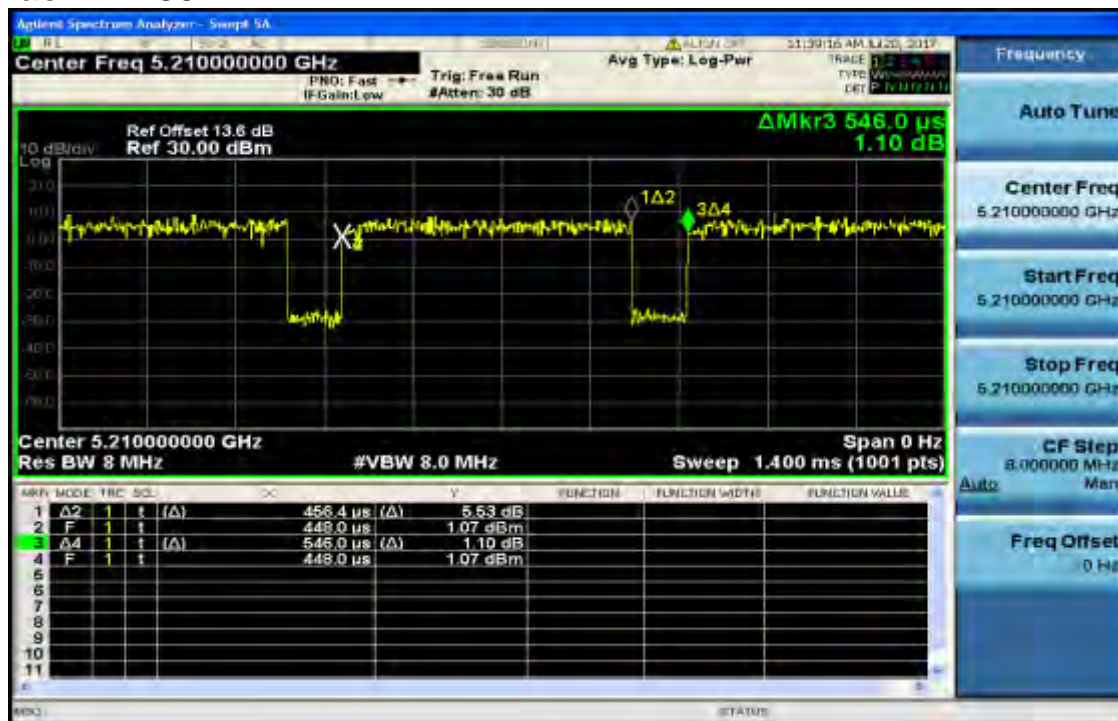
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802.11n HT 40



802.11 ac VHT 80



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8 26DB & 6DB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

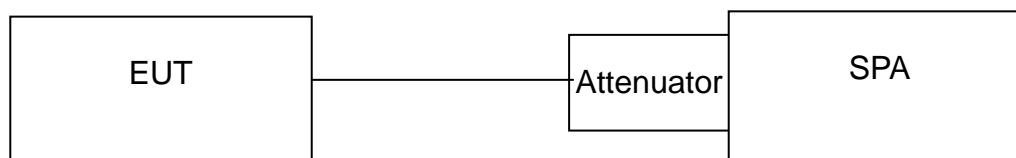
8.2 Measurement Procedure

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

8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018

8.4 Test Set-up



8.5 Measurement Result

26dB Bandwidth

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802.11a_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.49	12.897
5220	19.83	12.973
5240	19.46	12.891
5260	19.62	12.927
5300	19.69	12.942
5320	19.17	12.826
5500	19.60	12.923
5580	19.27	12.849
5700	19.50	12.901

802.11n_HT20_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.04	13.018
5220	19.88	12.984
5240	20.17	13.048
5260	19.91	12.991
5300	19.86	12.980
5320	20.05	13.021
5500	20.26	13.067
5580	19.82	12.972
5700	20.59	13.137

802.11n_HT40_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	41.70	16.202
5230	43.09	16.344
5270	40.92	16.119
5310	40.56	16.081
5510	40.51	16.076
5550	41.03	16.131
5670	40.91	16.118

802.11ac_VHT80_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.91	19.186
5290	82.21	19.149
5530	82.08	19.142
5610	82.27	19.152

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

802.11a_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.17	11.810
5785	15.33	11.856
5825	15.16	11.807

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.16	11.806
5785	15.14	11.802
5825	15.12	11.796

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.15	15.460
5795	35.15	15.459

802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.13	18.758

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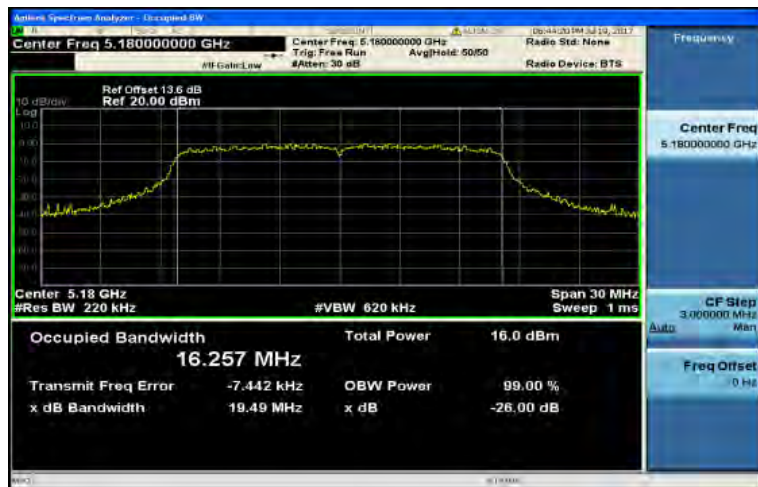
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802.11a, 5150~5250 MHz

26dB Band Width Test Data CH-Low (5180MHz)



802.11a, 5250~5350 MHz

26dB Band Width Test Data CH-Low (5260MHz)



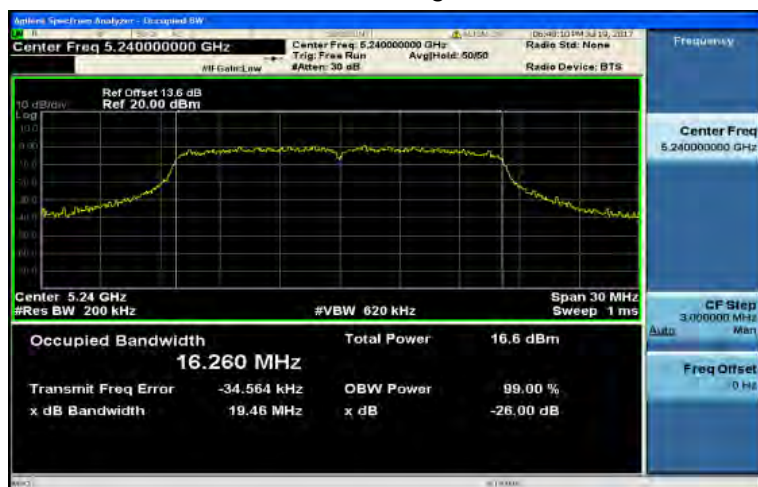
26dB Band Width Test Data CH-Mid (5220MHz)



26dB Band Width Test Data CH-Mid (5300MHz)



26dB Band Width Test Data CH-High (5240MHz)



26dB Band Width Test Data CH-High (5320MHz)



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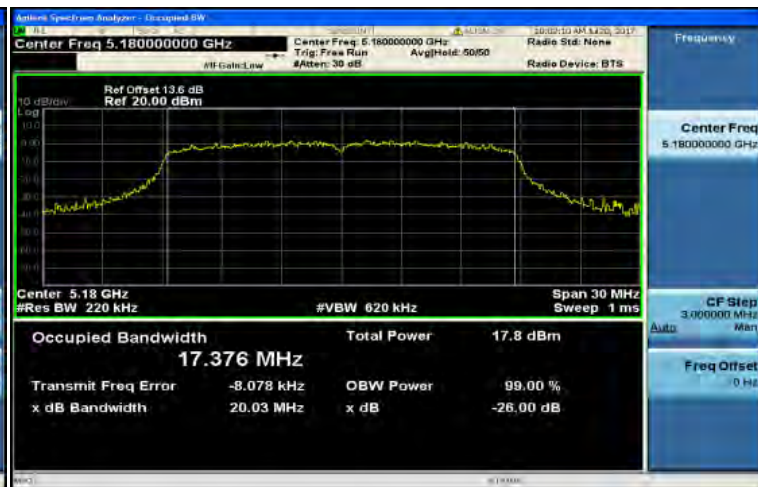
802.11a, 5470~5725 MHz

26dB Band Width Test Data CH-Low (5500MHz)



802.11n HT20, 5150~5250 MHz

26dB Band Width Test Data CH-Low (5180 MHz)



26dB Band Width Test Data CH-Mid (5580MHz)



26dB Band Width Test Data CH-Mid (5220 MHz)



26dB Band Width Test Data CH-High (5700MHz)



26dB Band Width Test Data CH-High (5240 MHz)



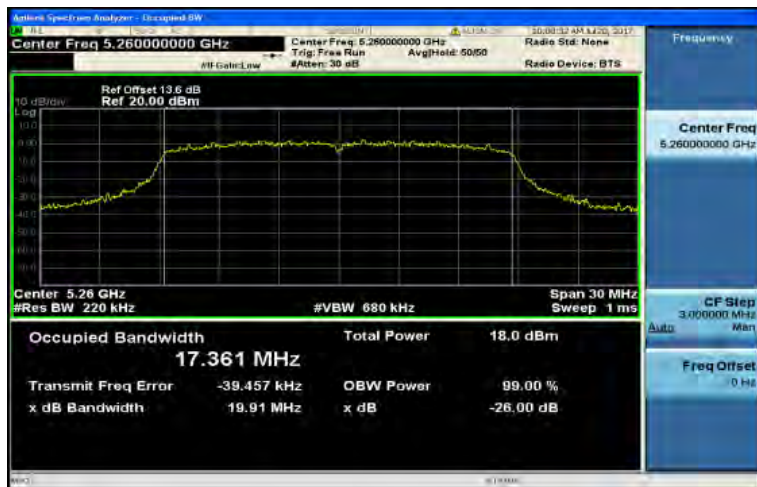
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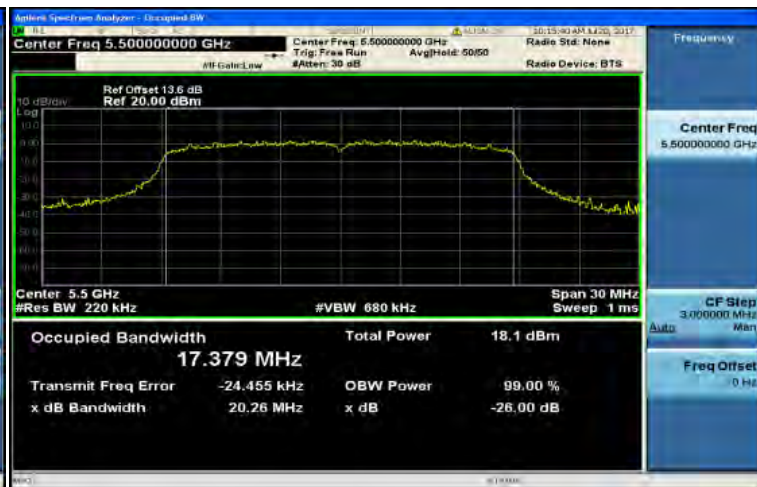
802.11n HT20, 5250~5350 MHz

26dB Band Width Test Data CH-Low (5260 MHz)



802.11n HT20, 5470~5725 MHz

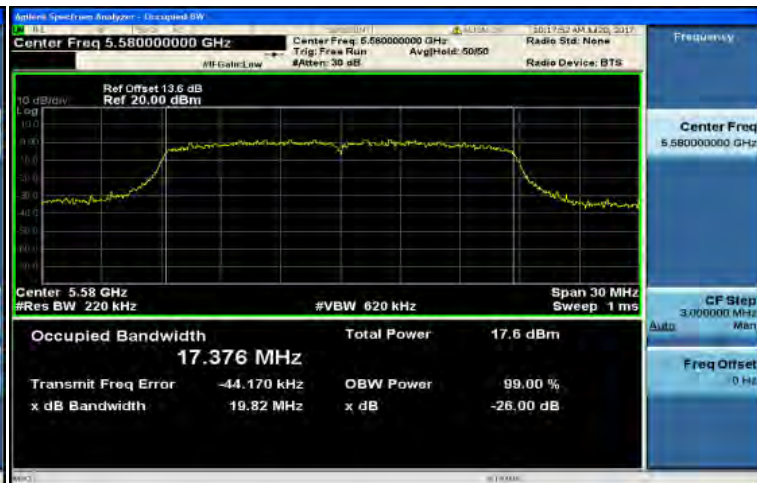
26dB Band Width Test Data CH-Low (5500 MHz)



26dB Band Width Test Data CH-Mid (5300 MHz)



26dB Band Width Test Data CH-Mid (5580 MHz)



26dB Band Width Test Data CH-High (5320 MHz)



26dB Band Width Test Data CH-High (5700 MHz)



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802.11n HT40, 5150~5250 MHz

26dB Band Width Test Data CH-Low (5190 MHz)



802.11n HT40, 5250~5350 MHz

26dB Band Width Test Data CH-Low (5270 MHz)



26dB Band Width Test Data CH-High (5230 MHz)



26dB Band Width Test Data CH-High (5310MHz)



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802.11n HT40, 5470~5725 MHz

26dB Band Width Test Data CH-Low (5510 MHz)



802.11ac VHT80, 5150~5250 MHz

26dB Band Width Test Data CH-Mid (5210 MHz)



26dB Band Width Test Data CH-Mid (5550 MHz)

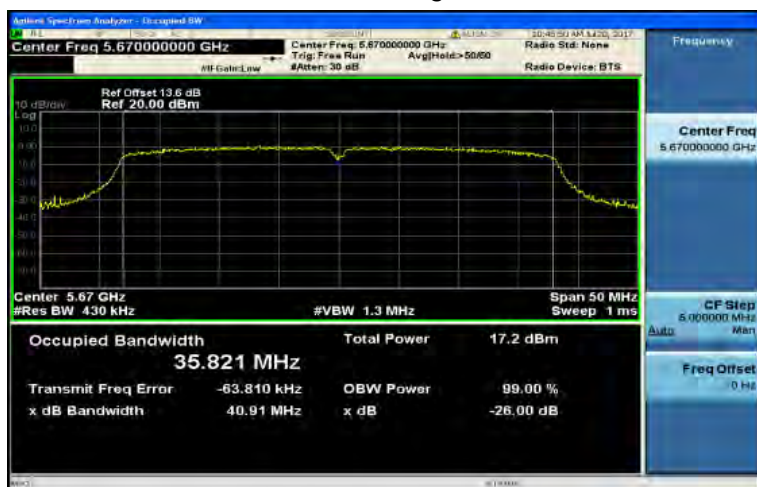


802.11ac VHT80, 5250~5350 MHz

26dB Band Width Test Data CH-Mid (5290 MHz)



26dB Band Width Test Data CH-High (5670 MHz)



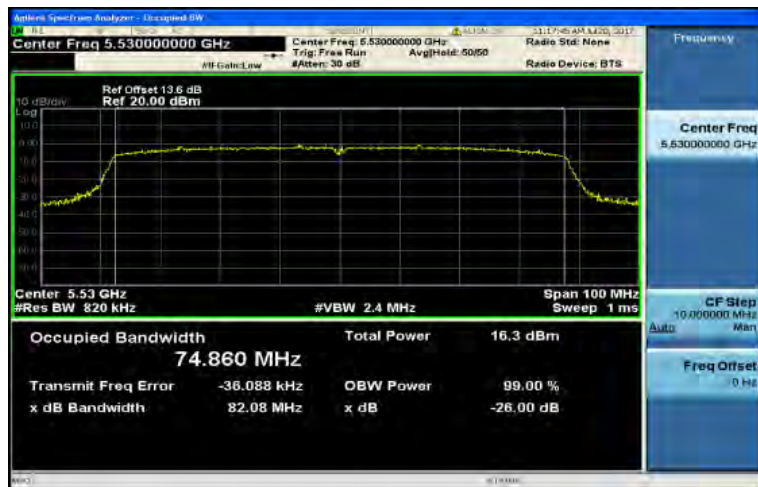
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802.11ac VHT80, 5470~5725 MHz

26dB Band Width Test Data CH-Low (5530 MHz)



802.11ac VHT80, 5470~5725 MHz

26dB Band Width Test Data CH-High (5610 MHz)



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6dB Band Width measure with Peak detector for FCC

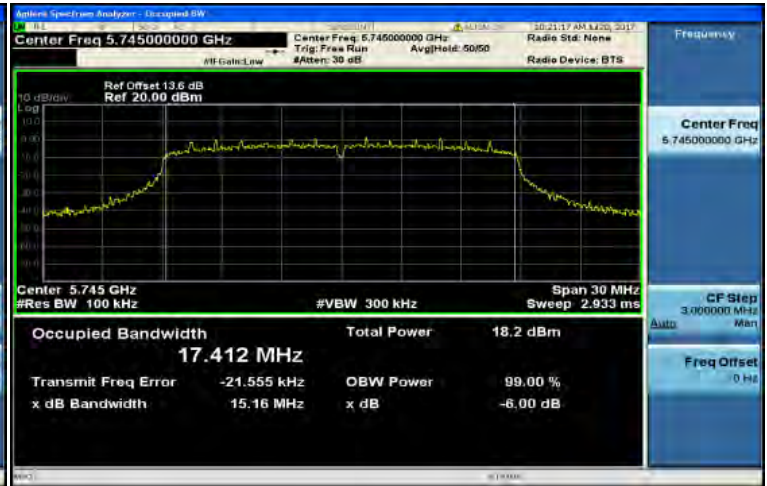
802.11a, 5725~5850 MHz

6dB Band Width Test Data CH-Low (5745 MHz)



802.11n_HT20, 5725~5850 MHz

6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)



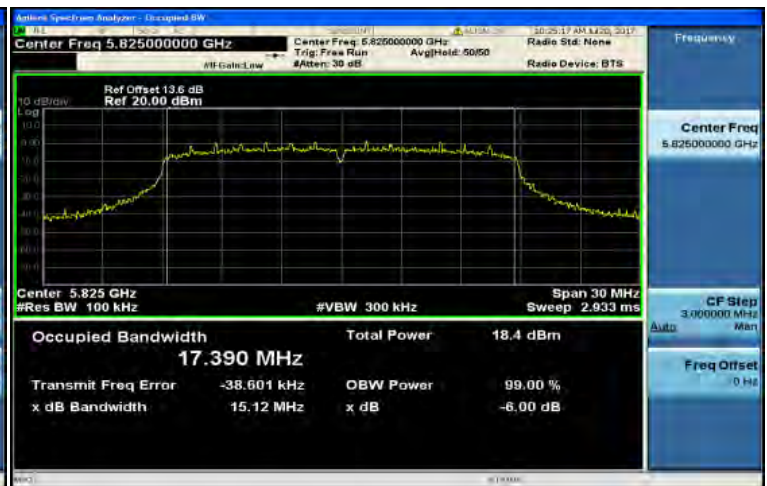
6dB Band Width Test Data CH-Mid (5785 MHz)



6dB Band Width Test Data CH-High (5825 MHz)



6dB Band Width Test Data CH-High (5825 MHz)



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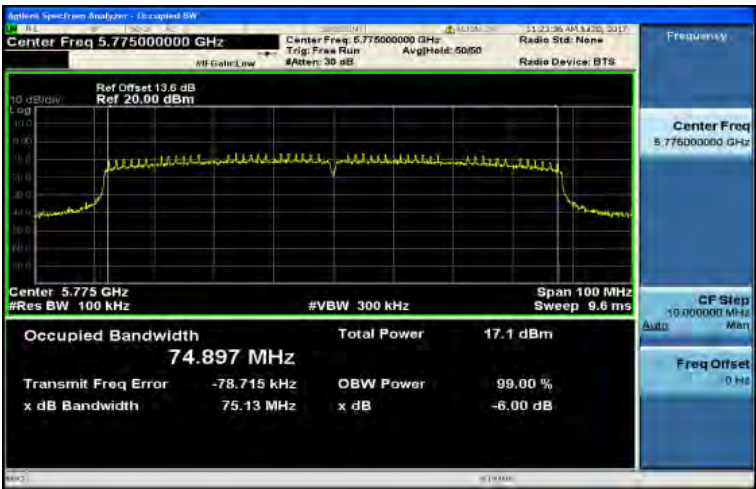
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802.11n_HT40, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5755 MHz)



802.11ac_VHT80, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5775 MHz)



6dB Band Width Test Data CH-Mid (5795 MHz)



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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 Acss Ponit	1 Watt(30dBm)
		Mobile and portable clinet device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)

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/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018

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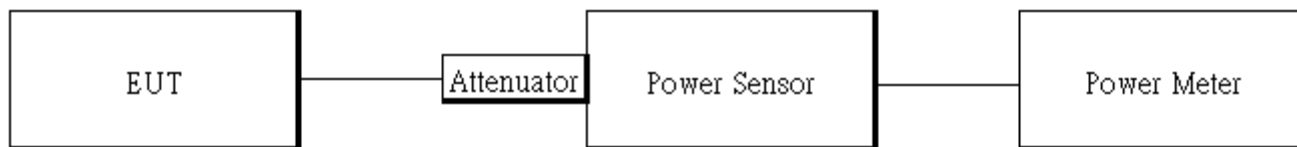
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9.4 Test Set-up



9.5 Measurement Result

Conducted output power (FCC)

802.11a_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)			RESULT
36	5180	6	9.78	30			PASS
44	5220	6	9.92	30			PASS
48	5240	6	9.90	30			PASS
52	5260	6	9.93	23.98	or $11+10\log(B) =$	23.93	PASS
60	5300	6	9.97	23.98	or $11+10\log(B) =$	23.94	PASS
64	5320	6	9.94	23.98	or $11+10\log(B) =$	23.83	PASS
100	5500	6	9.81	23.98	or $11+10\log(B) =$	23.92	PASS
116	5580	6	9.95	23.98	or $11+10\log(B) =$	23.85	PASS
140	5700	6	9.94	23.98	or $11+10\log(B) =$	23.90	PASS
149	5745	6	9.92	30			PASS
157	5785	6	9.81	30			PASS
165	5825	6	9.87	30			PASS

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802.11n_HT20_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	11.00	30	PASS
44	5220	MCS0	10.81	30	PASS
48	5240	MCS0	10.71	30	PASS
52	5260	MCS0	11.00	23.98 or $11+10\log(B) = 23.99$	PASS
60	5300	MCS0	10.94	23.98 or $11+10\log(B) = 23.98$	PASS
64	5320	MCS0	10.96	23.98 or $11+10\log(B) = 24.02$	PASS
100	5500	MCS0	11.00	23.98 or $11+10\log(B) = 24.07$	PASS
116	5580	MCS0	10.67	23.98 or $11+10\log(B) = 23.97$	PASS
140	5700	MCS0	10.83	23.98 or $11+10\log(B) = 24.14$	PASS
149	5745	MCS0	11.00	30	PASS
157	5785	MCS0	11.00	30	PASS
165	5825	MCS0	10.71	30	PASS

802.11ac_VHT20_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	10.88	30	PASS
44	5220	MCS0	10.81	30	PASS
48	5240	MCS0	10.72	30	PASS
52	5260	MCS0	10.91	23.98 or $11+10\log(B) = 23.99$	PASS
60	5300	MCS0	10.90	23.98 or $11+10\log(B) = 23.98$	PASS
64	5320	MCS0	10.88	23.98 or $11+10\log(B) = 24.02$	PASS
100	5500	MCS0	10.92	23.98 or $11+10\log(B) = 24.07$	PASS
116	5580	MCS0	10.66	23.98 or $11+10\log(B) = 23.97$	PASS
140	5700	MCS0	10.81	23.98 or $11+10\log(B) = 24.14$	PASS
149	5745	MCS0	10.82	30	PASS
157	5785	MCS0	10.84	30	PASS
165	5825	MCS0	10.69	30	PASS

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802.11n_HT40_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	9.76	30		PASS
46	5230	MCS0	9.82	30		PASS
54	5270	MCS0	9.85	23.98	or $11+10\log(B) = 27.12$	PASS
62	5310	MCS0	9.92	23.98	or $11+10\log(B) = 27.08$	PASS
102	5510	MCS0	9.88	23.98	or $11+10\log(B) = 27.08$	PASS
110	5550	MCS0	9.92	23.98	or $11+10\log(B) = 27.13$	PASS
134	5670	MCS0	9.78	23.98	or $11+10\log(B) = 27.12$	PASS
151	5755	MCS0	9.76	30		PASS
159	5795	MCS0	9.67	30		PASS

802.11ac_VHT40_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	9.64	30		PASS
46	5230	MCS0	9.72	30		PASS
54	5270	MCS0	9.74	23.98	or $11+10\log(B) = 27.12$	PASS
62	5310	MCS0	9.81	23.98	or $11+10\log(B) = 27.08$	PASS
102	5510	MCS0	9.75	23.98	or $11+10\log(B) = 27.08$	PASS
110	5550	MCS0	9.78	23.98	or $11+10\log(B) = 27.13$	PASS
134	5670	MCS0	9.63	23.98	or $11+10\log(B) = 27.12$	PASS
151	5755	MCS0	9.61	30		PASS
159	5795	MCS0	9.58	30		PASS

802.11ac_VHT80_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)		RESULT
42	5210	MCS0	9.05	30		PASS
58	5290	MCS0	9.05	23.98	or $11+10\log(B) = 30.15$	PASS
106	5530	MCS0	8.77	23.98	or $11+10\log(B) = 30.14$	PASS
122	5610	MCS0	8.72	23.98	or $11+10\log(B) = 30.15$	PASS
155	5775	MCS0	8.82	30		PASS

Note:

SISO offset= 13.6 dB

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10 PEAK 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 Acess Ponit	
		Mobile and portable clinet device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

10.2 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=500 kHz, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
- User the cursor on spectrum to peak search the highest level of trace
- Record the max. reading and add 10 log(1/duty cycle).
- Repeat above procedures until all default test channel (low, middle, and high) was complete.

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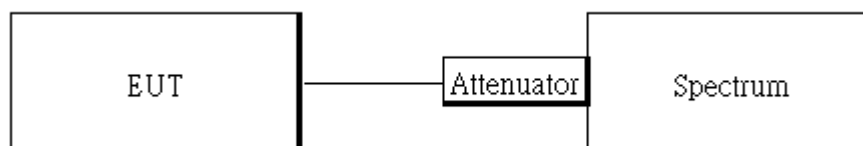
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10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018

10.4 Test Set-up



10.5 Measurement Result

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	-5.10	0.20	-4.90	17	-21.90
5220	-4.40	0.20	-4.20	17	-21.20
5240	-4.80	0.20	-4.60	17	-21.60
5260	-4.50	0.20	-4.30	11	-15.30
5300	-3.85	0.20	-3.65	11	-14.65
5320	-3.73	0.20	-3.53	11	-14.53
5500	-5.83	0.20	-5.63	11	-16.63
5580	-4.64	0.20	-4.44	11	-15.44
5700	-4.68	0.20	-4.48	11	-15.48
5745	4.38	0.20	4.38	30	-25.62
5785	5.06	0.20	5.06	30	-24.94
5825	3.16	0.20	3.16	30	-26.84

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POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	-3.41	0.20	-3.21	17	-20.21
5220	-3.22	0.20	-3.02	17	-20.02
5240	-3.03	0.20	-2.83	17	-19.83
5260	-3.55	0.20	-3.35	11	-14.35
5300	-2.46	0.20	-2.26	11	-13.26
5320	-3.20	0.20	-3.00	11	-14.00
5500	-3.34	0.20	-3.14	11	-14.14
5580	-3.58	0.20	-3.38	11	-14.38
5700	-3.19	0.20	-2.99	11	-13.99
5745	5.18	0.20	5.18	30	-24.82
5785	5.58	0.20	5.58	30	-24.42
5825	5.22	0.20	5.22	30	-24.78

POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-9.5	0.42	-9.08	17	-26.08
5230	-8.09	0.42	-7.67	17	-24.67
5270	-7.2	0.42	-6.78	11	-17.78
5310	-8	0.42	-7.58	11	-18.58
5510	-9.06	0.42	-8.64	11	-19.64
5550	-7.93	0.42	-7.51	11	-18.51
5670	-8.36	0.42	-7.94	11	-18.94
5755	0.74	0.42	0.74	30	-29.26
5795	0.46	0.42	0.46	30	-29.54

POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-14.77	0.78	-13.99	17	-30.99
5290	-14.56	0.78	-13.78	11	-24.78
5530	-14.82	0.78	-14.04	11	-25.04
5610	-14.26	0.78	-13.48	11	-24.48
5775	-2.59	0.78	-2.59	30	-32.59

Note:

SISO offset= 13.6 dB

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802.11a 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



802.11a 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



Peak Power Spectral Density Data Plot (CH High 5240 MHz)



Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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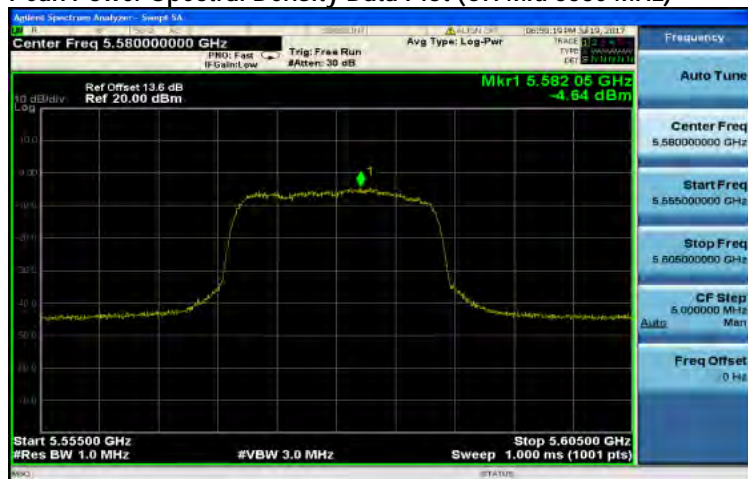
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802.11a 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)



Peak Power Spectral Density Data Plot (CH High 5700 MHz)



802.11a 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



Peak Power Spectral Density Data Plot (CH High 5825 MHz)



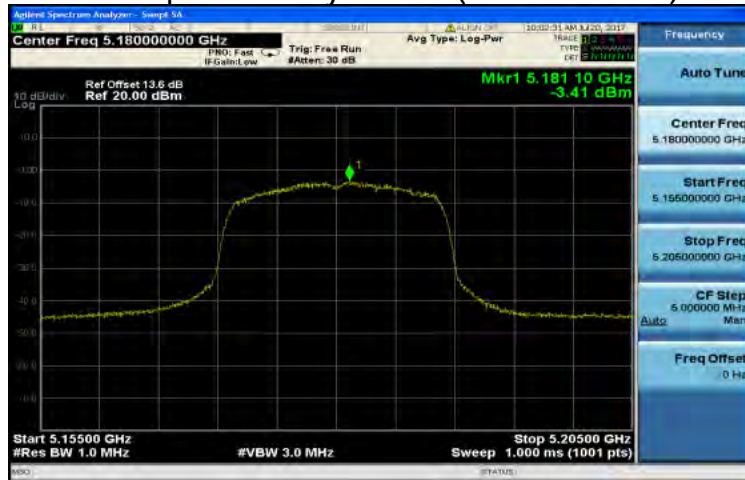
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802.11n HT20, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



802.11n HT20, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5260MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



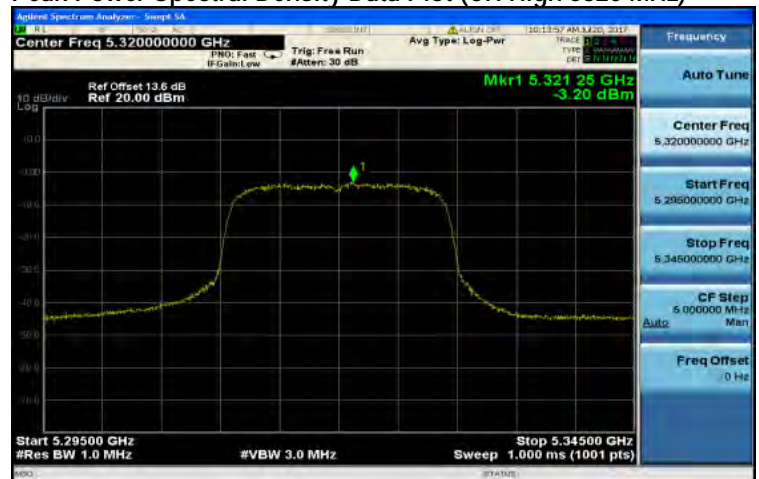
Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



Peak Power Spectral Density Data Plot (CH High 5240 MHz)



Peak Power Spectral Density Data Plot (CH High 5320 MHz)



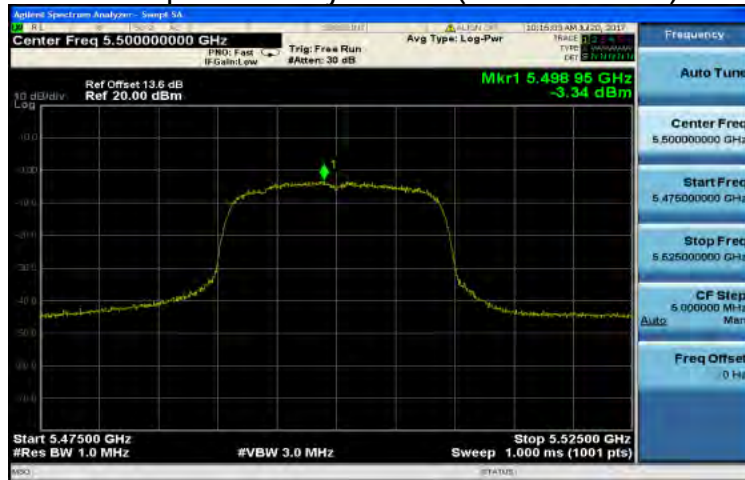
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802.11n HT20, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5580MHz)



Peak Power Spectral Density Data Plot (CH High 5700 MHz)



802.11n HT20, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



Peak Power Spectral Density Data Plot (CH High 5825 MHz)



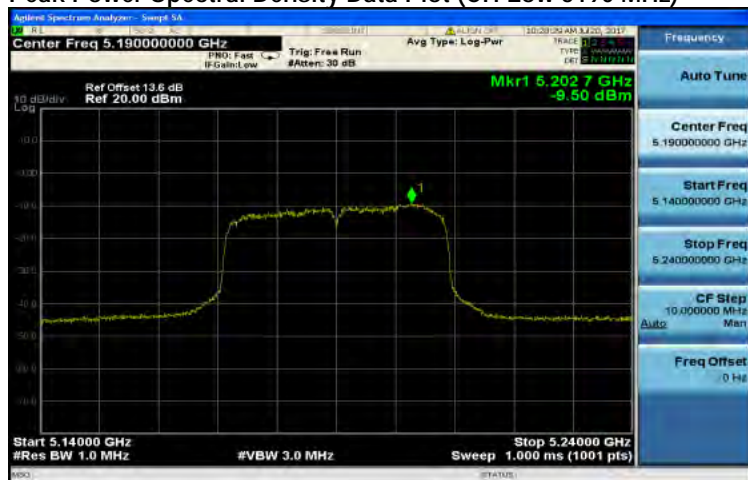
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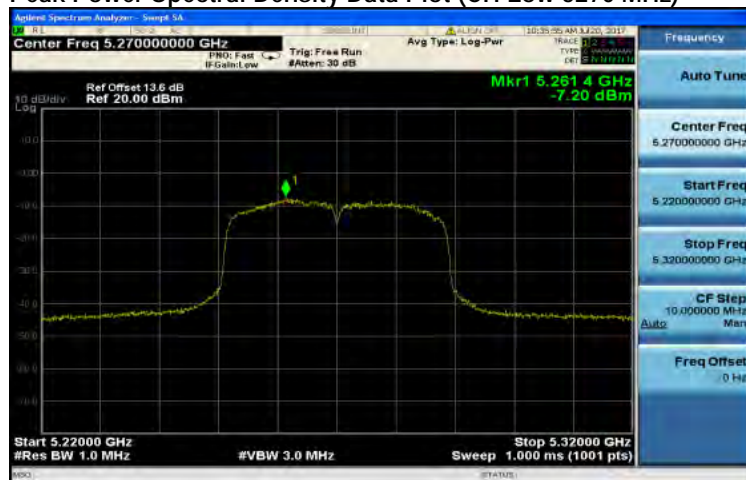
802.11n HT40, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5190 MHz)

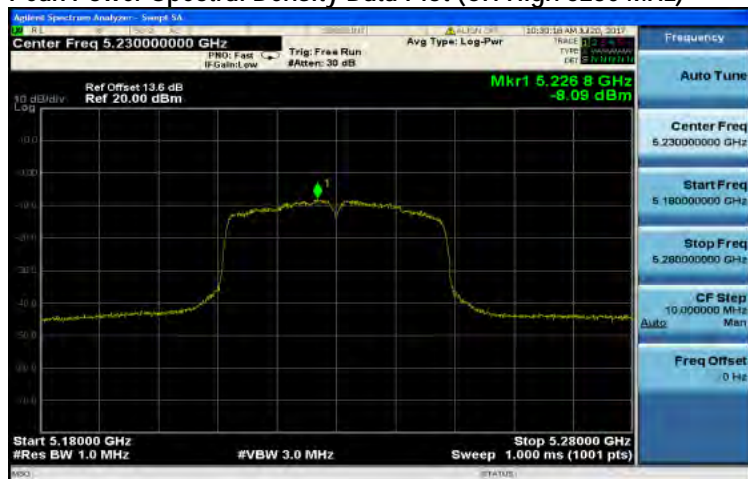


802.11n HT40, 5250~5350 MHz

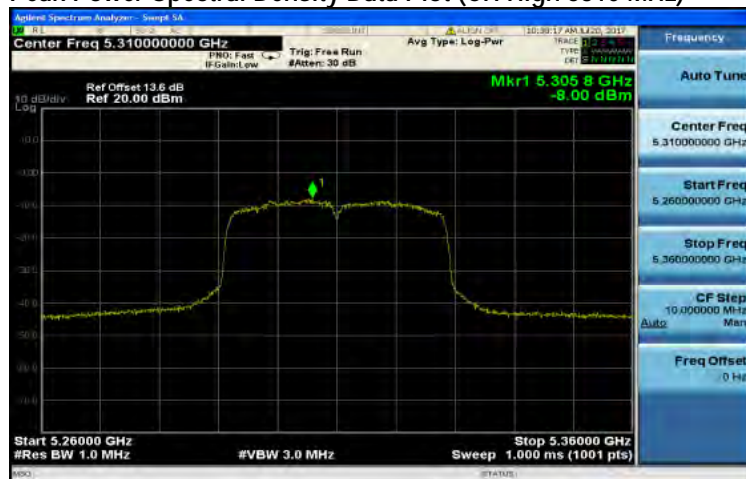
Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



Peak Power Spectral Density Data Plot (CH High 5230 MHz)



Peak Power Spectral Density Data Plot (CH High 5310 MHz)



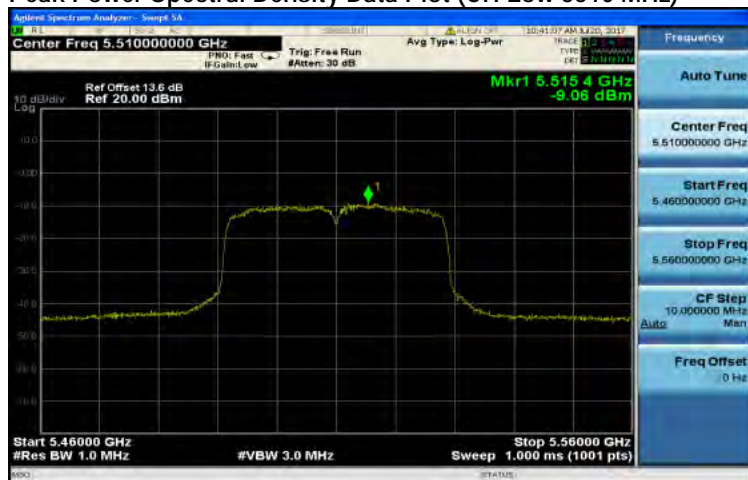
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802.11n HT40, 5470~5725 MHz

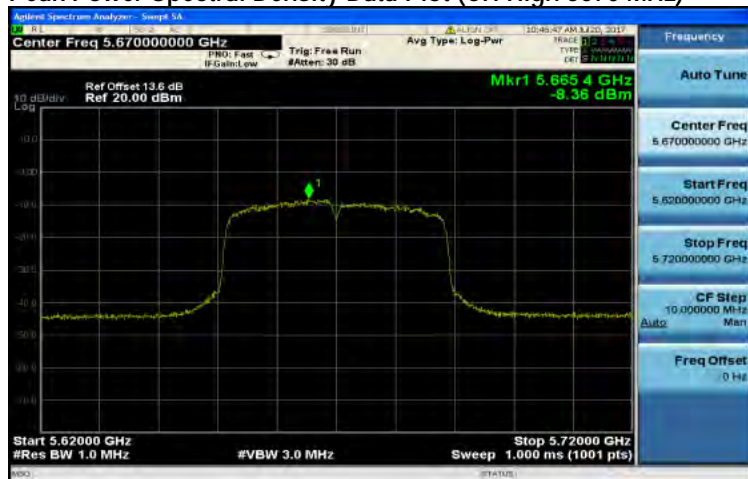
Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5550 MHz)



Peak Power Spectral Density Data Plot (CH High 5670 MHz)



802.11n HT40, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



Peak Power Spectral Density Data Plot (CH High 5795 MHz)



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802.11ac VHT80, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Mid 5210 MHz)



802.11ac VHT80, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Mid 5290 MHz)



802.11ac VHT80, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5530 MHz)



802.11ac VHT80, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH High 5610 MHz)



802.11ac VHT80, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



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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.

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

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

Note:

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

11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI7	100760	05/11/2017	05/10/2018
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/25/2017	04/24/2018
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/05/2017	01/04/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/05/2017	01/04/2018
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2017	06/30/2018
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018

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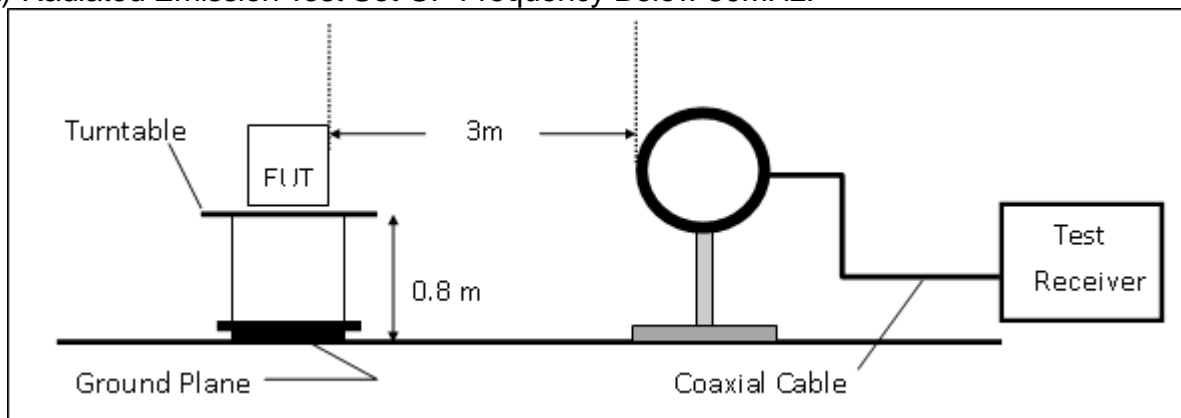
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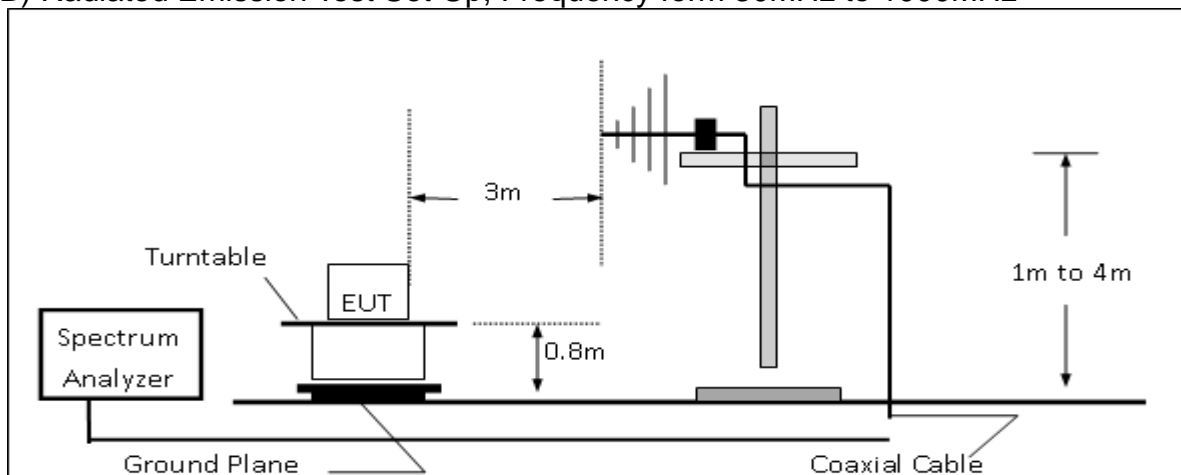
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11.3 Test SET-UP

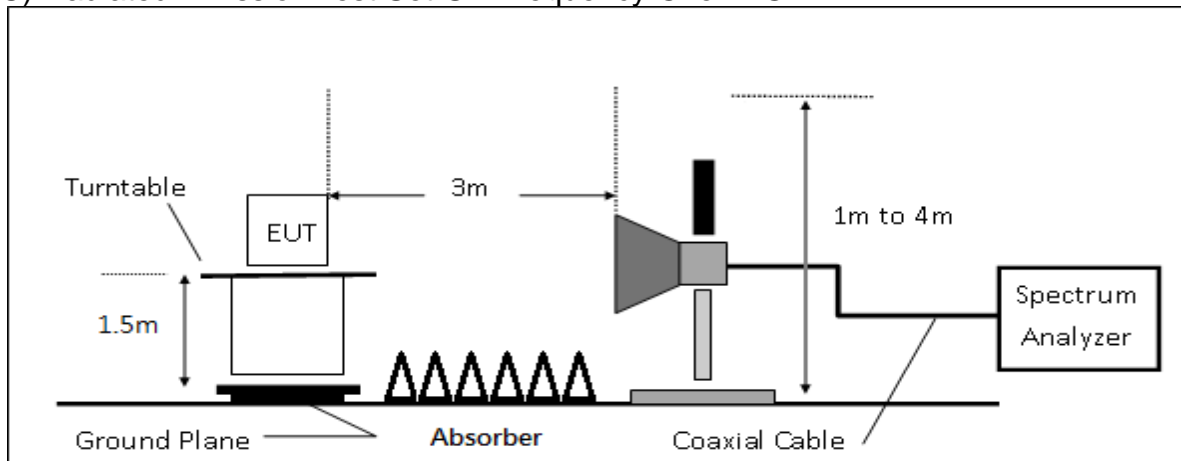
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

11.5 Field Strength Calculation

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

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

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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

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

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Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

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.

11.7 Measurement Result

Refer to attach tabular data sheets.

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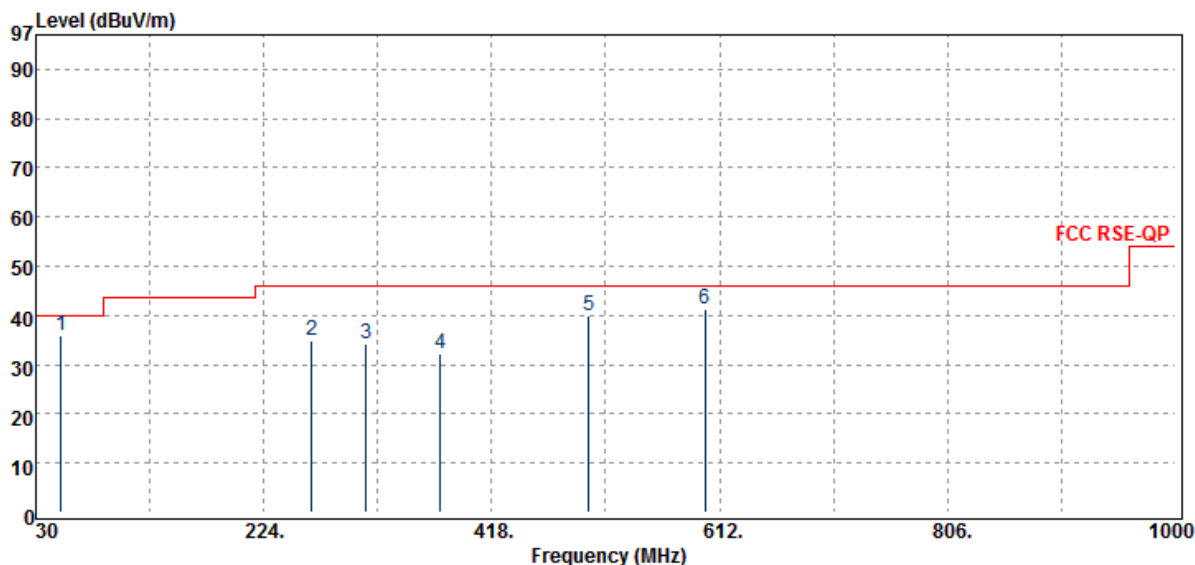
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

Operation Band	:802.11aB1	Test Date	:2017-07-19
Fundamental Frequency	:5220 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	S	QP	43.83	-7.75	36.08	40.00	-3.92
264.74	S	Peak	41.93	-7.05	34.88	46.00	-11.12
311.30	S	Peak	39.80	-5.45	34.35	46.00	-11.65
374.35	S	Peak	36.88	-4.54	32.34	46.00	-13.66
500.45	S	Peak	42.46	-2.68	39.78	46.00	-6.22
599.39	S	Peak	41.46	-0.27	41.19	46.00	-4.81

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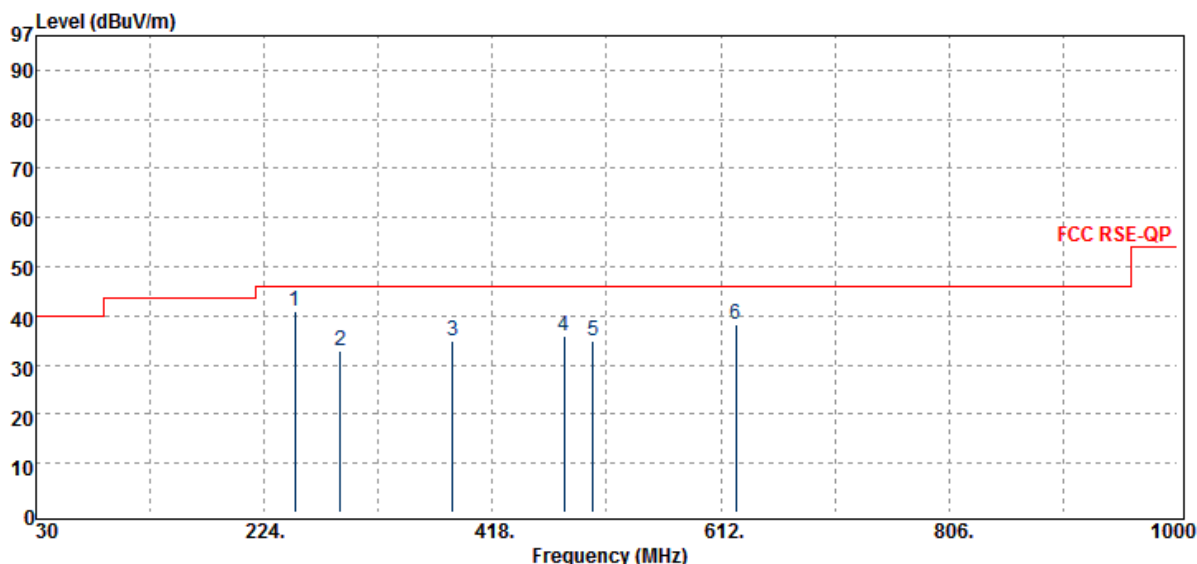
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Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-07-19
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
250.19	S	Peak	49.00	-7.93	41.07	46.00	-4.93
288.99	S	Peak	38.97	-6.09	32.88	46.00	-13.12
384.05	S	Peak	39.29	-4.35	34.94	46.00	-11.06
479.11	S	Peak	38.16	-2.39	35.77	46.00	-10.23
503.36	S	Peak	37.17	-2.40	34.77	46.00	-11.23
624.61	S	Peak	38.26	0.15	38.41	46.00	-7.59

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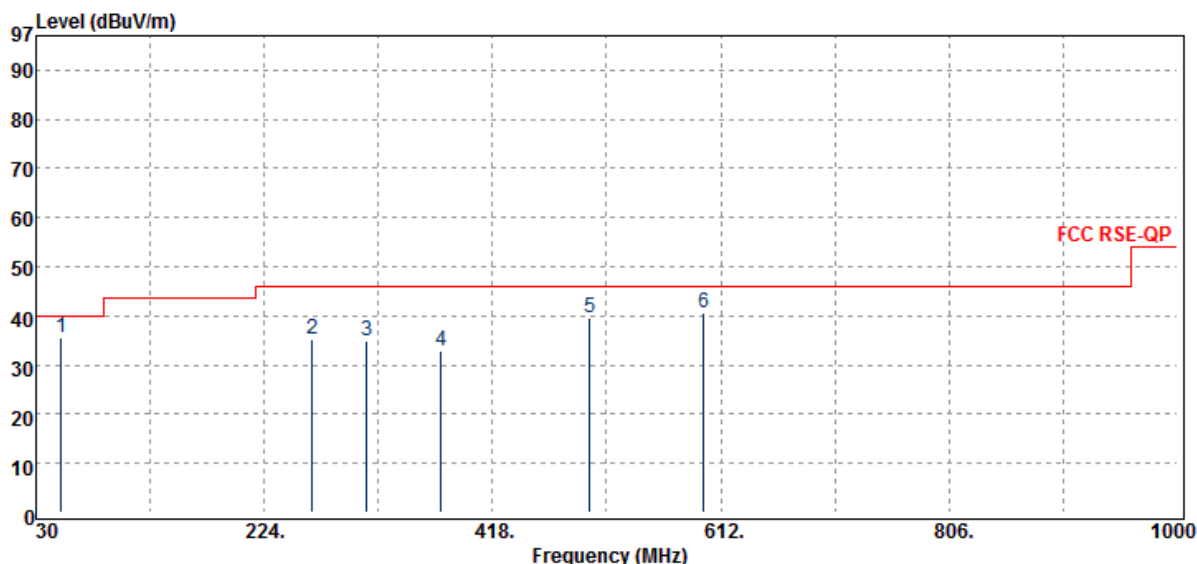
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-07-19
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	S	QP	43.17	-7.75	35.42	40.00	-4.58
264.74	S	Peak	42.31	-7.05	35.26	46.00	-10.74
311.30	S	Peak	40.31	-5.45	34.86	46.00	-11.14
374.35	S	Peak	37.30	-4.54	32.76	46.00	-13.24
500.45	S	Peak	42.31	-2.68	39.63	46.00	-6.37
597.45	S	Peak	40.68	-0.19	40.49	46.00	-5.51

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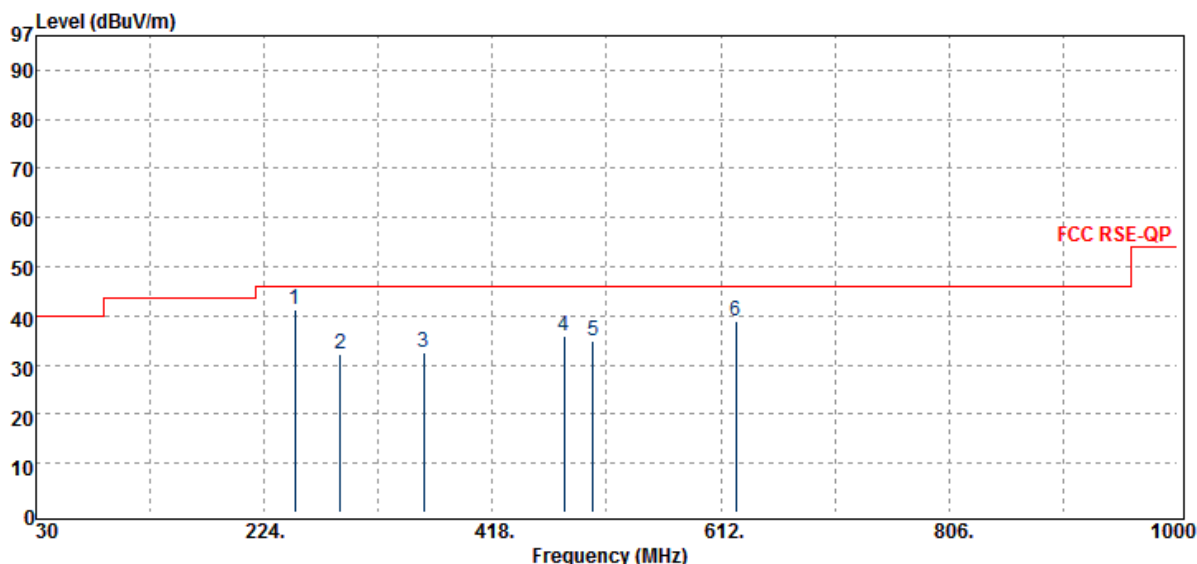
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-07-19
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
250.19	S	Peak	49.14	-7.93	41.21	46.00	-4.79
288.99	S	Peak	38.41	-6.09	32.32	46.00	-13.68
359.80	S	Peak	37.41	-4.79	32.62	46.00	-13.38
479.11	S	Peak	38.42	-2.39	36.03	46.00	-9.97
503.36	S	Peak	37.14	-2.40	34.74	46.00	-11.26
624.61	S	Peak	38.87	0.15	39.02	46.00	-6.98

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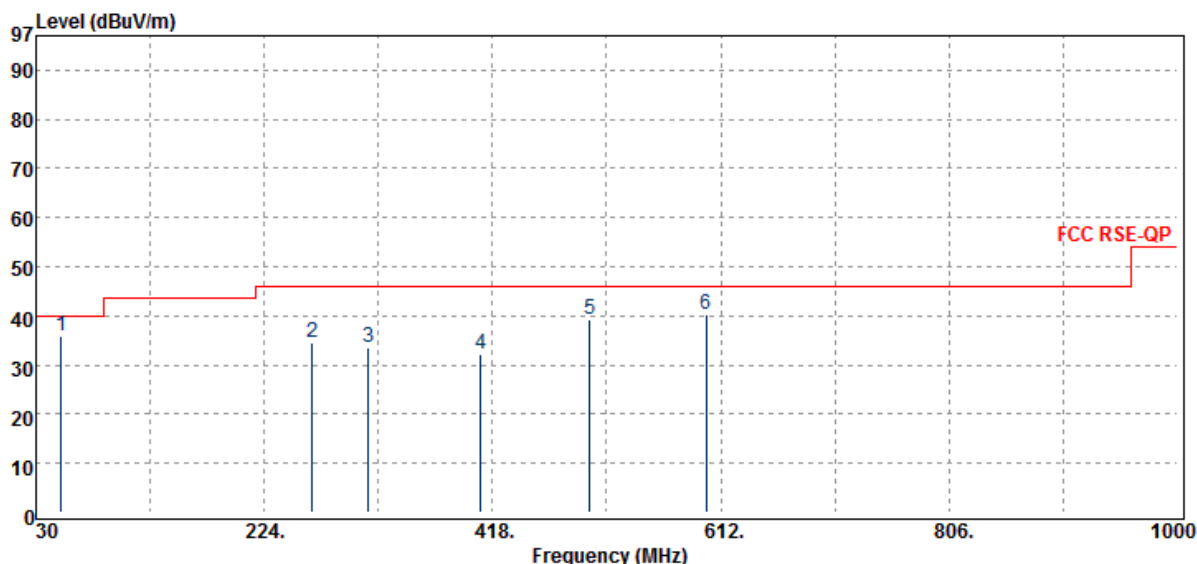
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-07-19
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	S	QP	43.53	-7.75	35.78	40.00	-4.22
264.74	S	Peak	41.62	-7.05	34.57	46.00	-11.43
312.27	S	Peak	39.01	-5.51	33.50	46.00	-12.50
408.30	S	Peak	35.60	-3.53	32.07	46.00	-13.93
500.45	S	Peak	41.94	-2.68	39.26	46.00	-6.74
599.39	S	Peak	40.63	-0.27	40.36	46.00	-5.64

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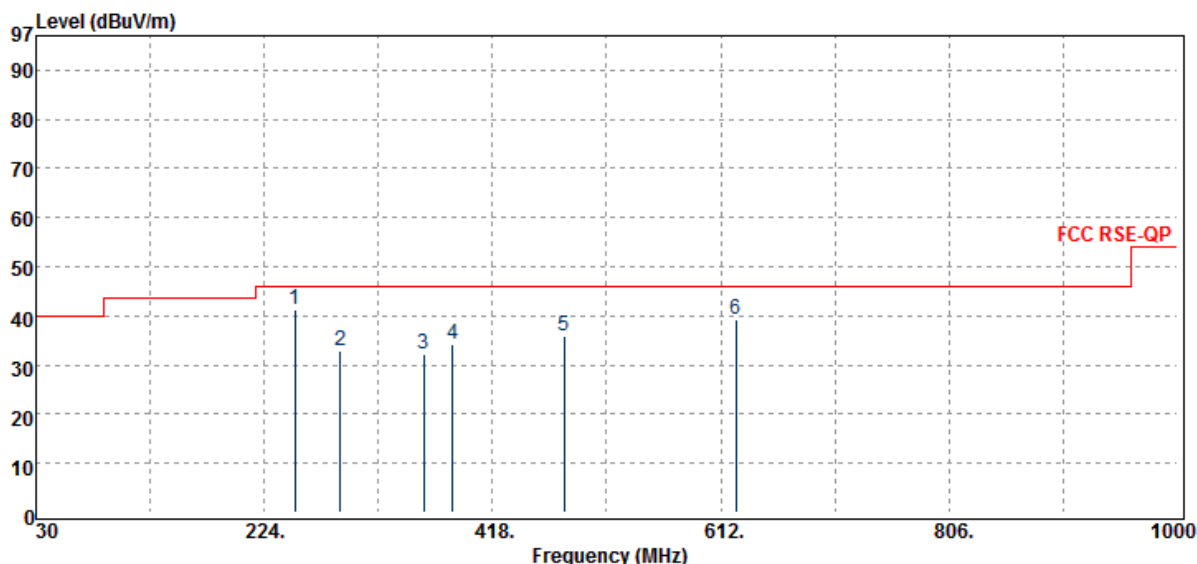
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-07-19
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
250.19	S	Peak	49.19	-7.93	41.26	46.00	-4.74
288.99	S	Peak	39.02	-6.09	32.93	46.00	-13.07
359.80	S	Peak	37.07	-4.79	32.28	46.00	-13.72
384.05	S	Peak	38.68	-4.35	34.33	46.00	-11.67
479.11	S	Peak	38.15	-2.39	35.76	46.00	-10.24
624.61	S	Peak	39.15	0.15	39.30	46.00	-6.70

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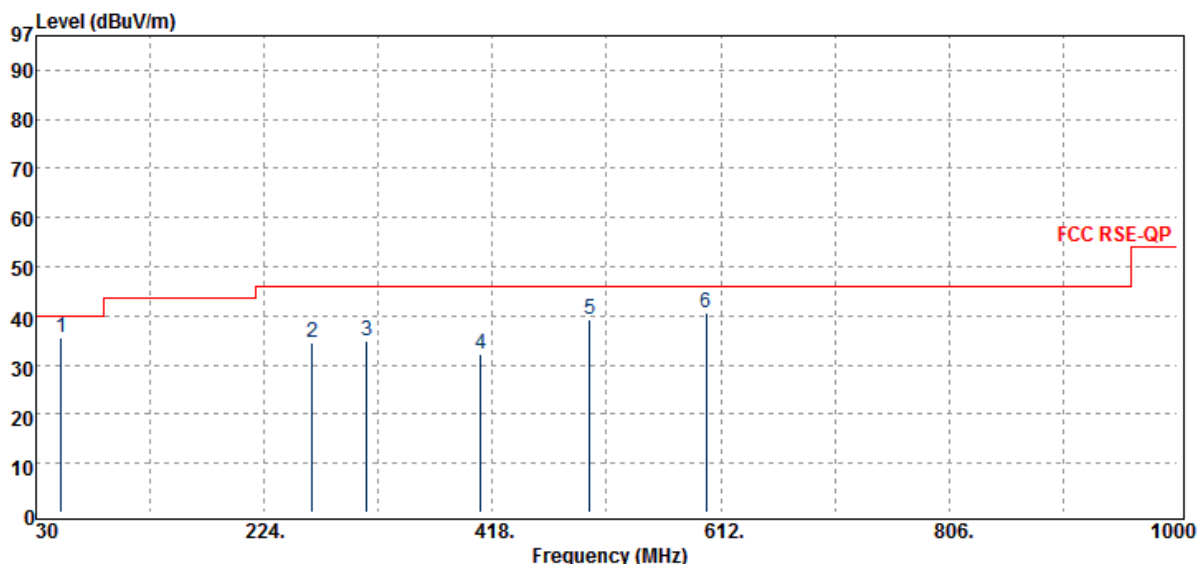
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Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-07-19
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	S	QP	43.46	-7.75	35.71	40.00	-4.29
264.74	S	Peak	41.56	-7.05	34.51	46.00	-11.49
311.30	S	Peak	40.39	-5.45	34.94	46.00	-11.06
408.30	S	Peak	35.63	-3.53	32.10	46.00	-13.90
500.45	S	Peak	42.06	-2.68	39.38	46.00	-6.62
599.39	S	Peak	40.77	-0.27	40.50	46.00	-5.50

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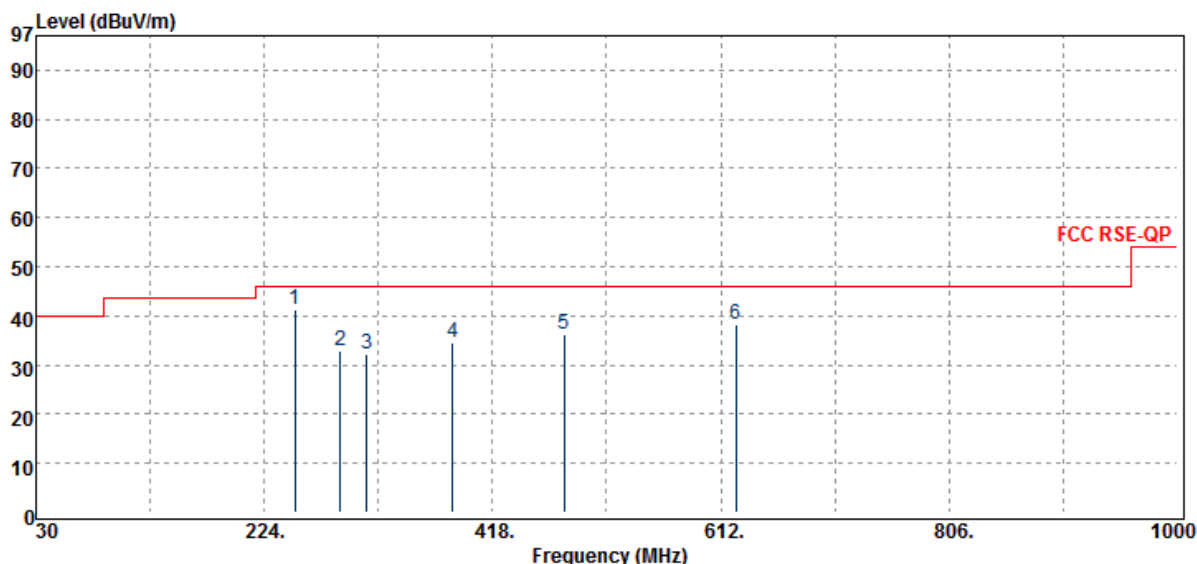
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Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-07-19
Temp./Humi. :22 deg_C / 61 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
250.19	S	Peak	49.14	-7.93	41.21	46.00	-4.79
288.99	S	Peak	38.87	-6.09	32.78	46.00	-13.22
311.30	S	Peak	37.58	-5.45	32.13	46.00	-13.87
384.05	S	Peak	38.87	-4.35	34.52	46.00	-11.48
479.11	S	Peak	38.76	-2.39	36.37	46.00	-9.63
624.61	S	Peak	38.00	0.15	38.15	46.00	-7.85

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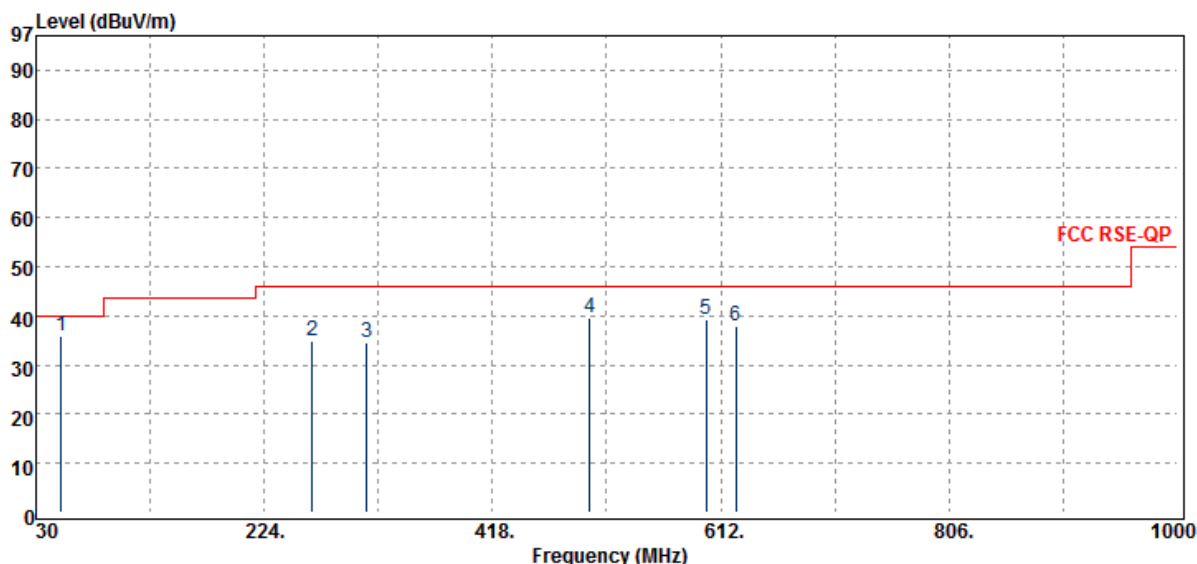
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Operation Band :802.11ac80B1
Fundamental Frequency :5210 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2017-07-19
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	S	QP	43.57	-7.75	35.82	40.00	-4.18
264.74	S	Peak	42.05	-7.05	35.00	46.00	-11.00
311.30	S	Peak	40.15	-5.45	34.70	46.00	-11.30
500.45	S	Peak	42.15	-2.68	39.47	46.00	-6.53
599.39	S	Peak	39.61	-0.27	39.34	46.00	-6.66
624.61	S	Peak	37.63	0.15	37.78	46.00	-8.22

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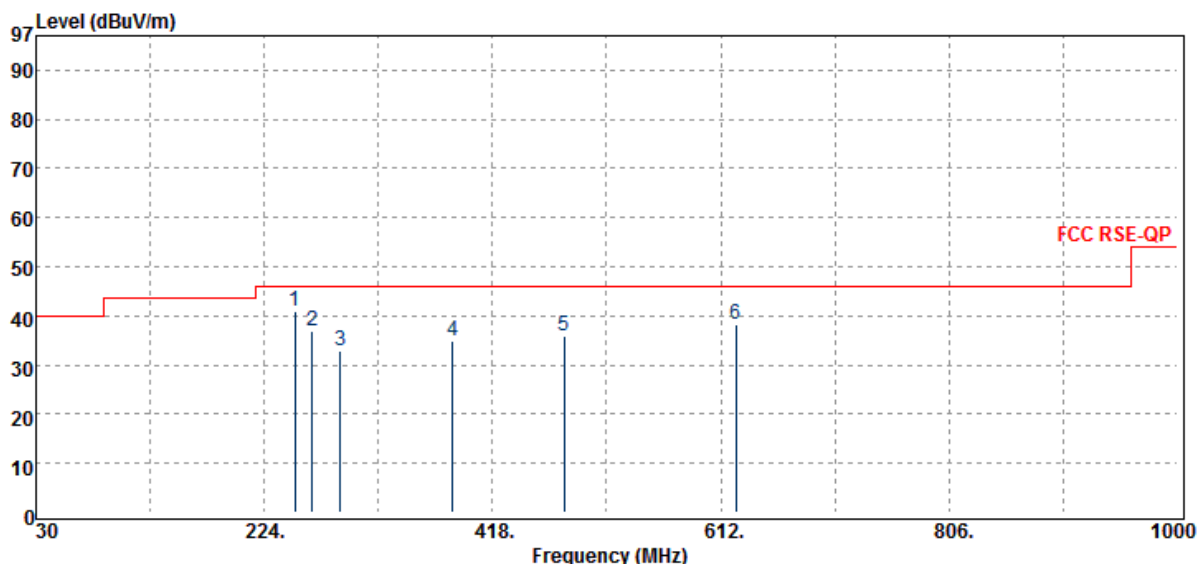
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Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-19
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
250.19	S	Peak	48.91	-7.93	40.98	46.00	-5.02
264.74	S	Peak	43.88	-7.05	36.83	46.00	-9.17
288.99	S	Peak	38.93	-6.09	32.84	46.00	-13.16
384.05	S	Peak	39.28	-4.35	34.93	46.00	-11.07
479.11	S	Peak	38.43	-2.39	36.04	46.00	-9.96
624.61	S	Peak	37.97	0.15	38.12	46.00	-7.88

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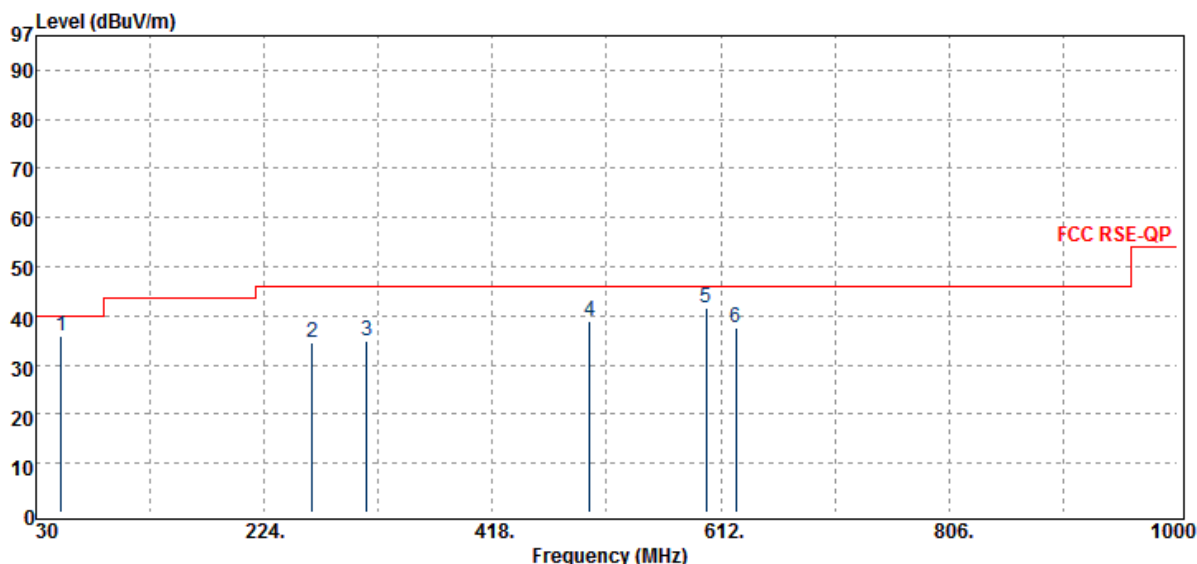
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Member of SGS Group

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

Test Date :2017-07-19
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	S	QP	43.78	-7.75	36.03	40.00	-3.97
264.74	S	Peak	41.52	-7.05	34.47	46.00	-11.53
311.30	S	Peak	40.22	-5.45	34.77	46.00	-11.23
500.45	S	Peak	41.60	-2.68	38.92	46.00	-7.08
599.39	S	Peak	41.95	-0.27	41.68	46.00	-4.32
624.61	S	Peak	37.31	0.15	37.46	46.00	-8.54

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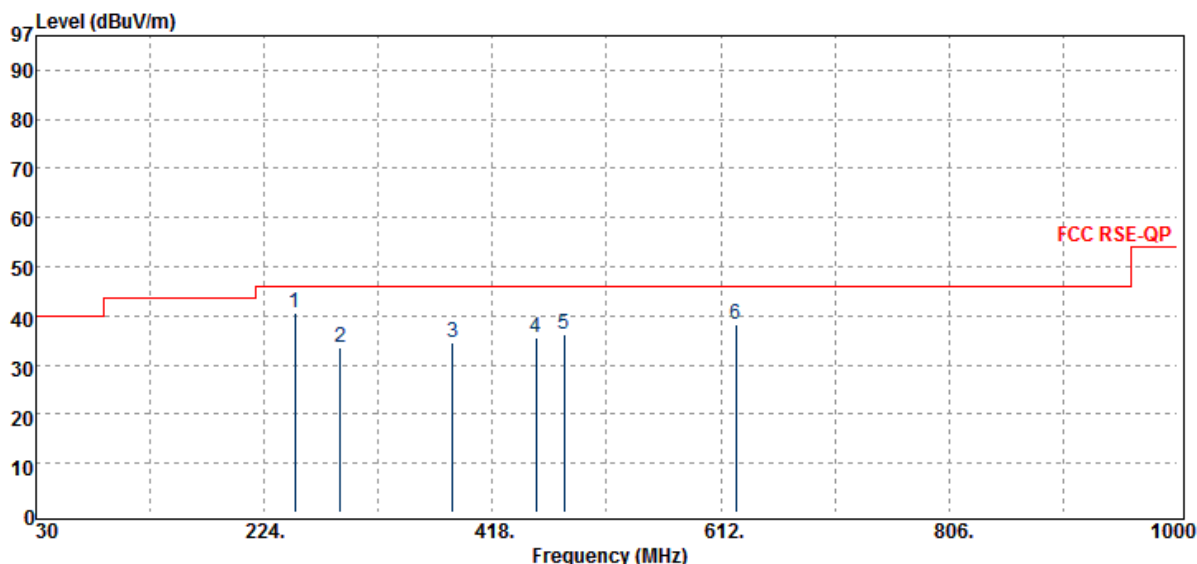
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Member of SGS Group

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

Test Date :2017-07-19
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
250.19	S	Peak	48.67	-7.93	40.74	46.00	-5.26
288.99	S	Peak	39.53	-6.09	33.44	46.00	-12.56
384.05	S	Peak	38.98	-4.35	34.63	46.00	-11.37
454.86	S	Peak	38.34	-2.65	35.69	46.00	-10.31
479.11	S	Peak	38.48	-2.39	36.09	46.00	-9.91
624.61	S	Peak	38.19	0.15	38.34	46.00	-7.66

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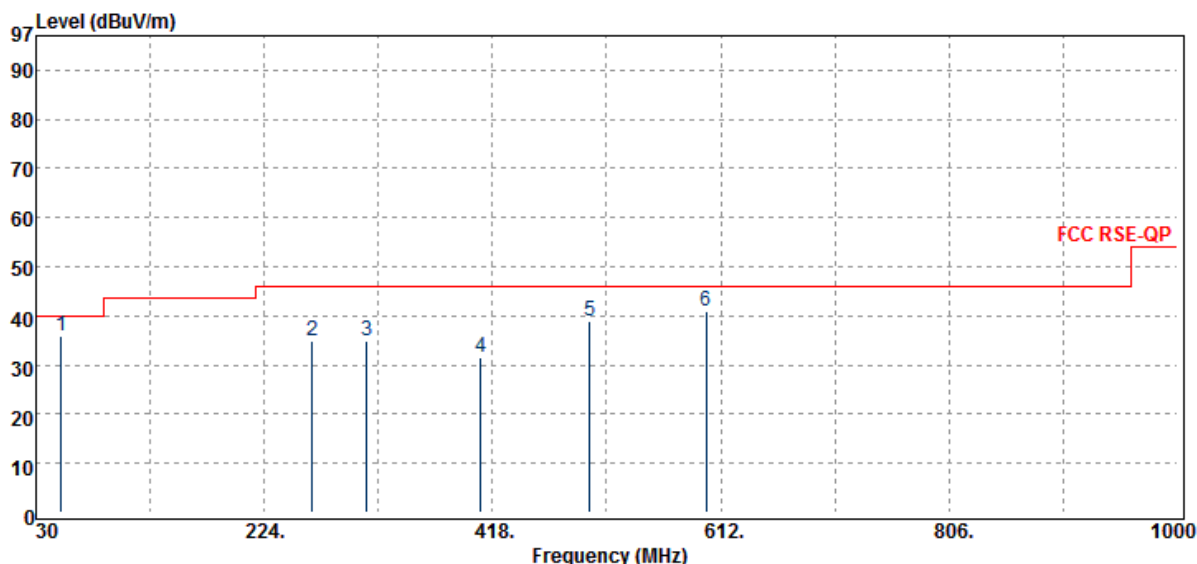
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Member of SGS Group

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

Test Date :2017-07-19
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	S	QP	43.59	-7.75	35.84	40.00	-4.16
264.74	S	Peak	41.90	-7.05	34.85	46.00	-11.15
311.30	S	Peak	40.48	-5.45	35.03	46.00	-10.97
408.30	S	Peak	35.19	-3.53	31.66	46.00	-14.34
500.45	S	Peak	41.75	-2.68	39.07	46.00	-6.93
599.39	S	Peak	41.28	-0.27	41.01	46.00	-4.99

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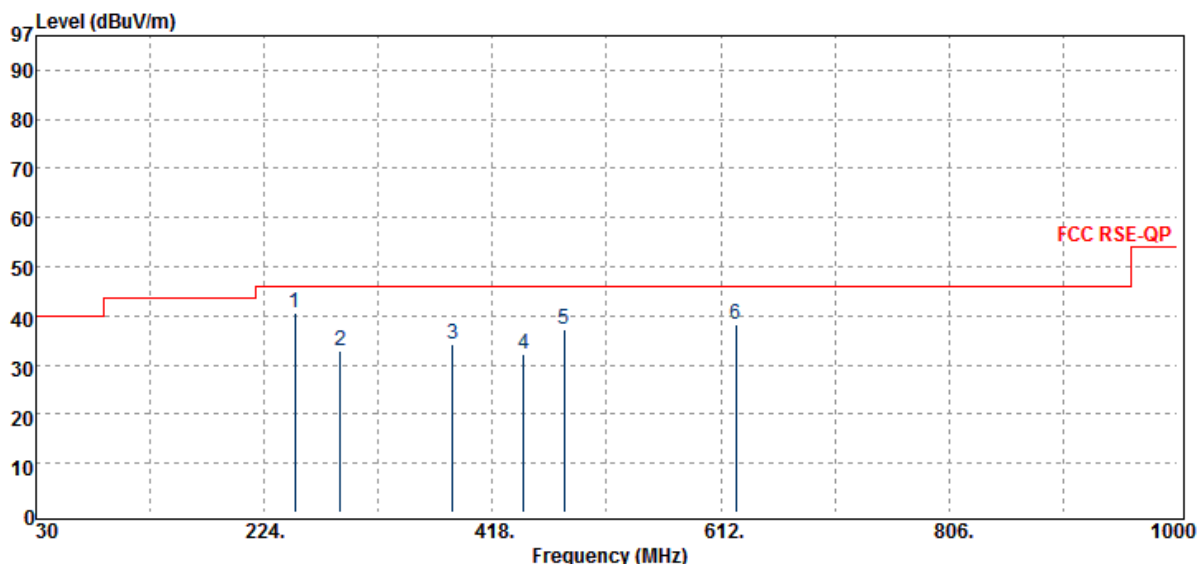
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-19
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
250.19	S	Peak	48.64	-7.93	40.71	46.00	-5.29
288.99	S	Peak	38.89	-6.09	32.80	46.00	-13.20
384.05	S	Peak	38.71	-4.35	34.36	46.00	-11.64
444.19	S	Peak	35.52	-3.21	32.31	46.00	-13.69
479.11	S	Peak	39.53	-2.39	37.14	46.00	-8.86
624.61	S	Peak	37.96	0.15	38.11	46.00	-7.89

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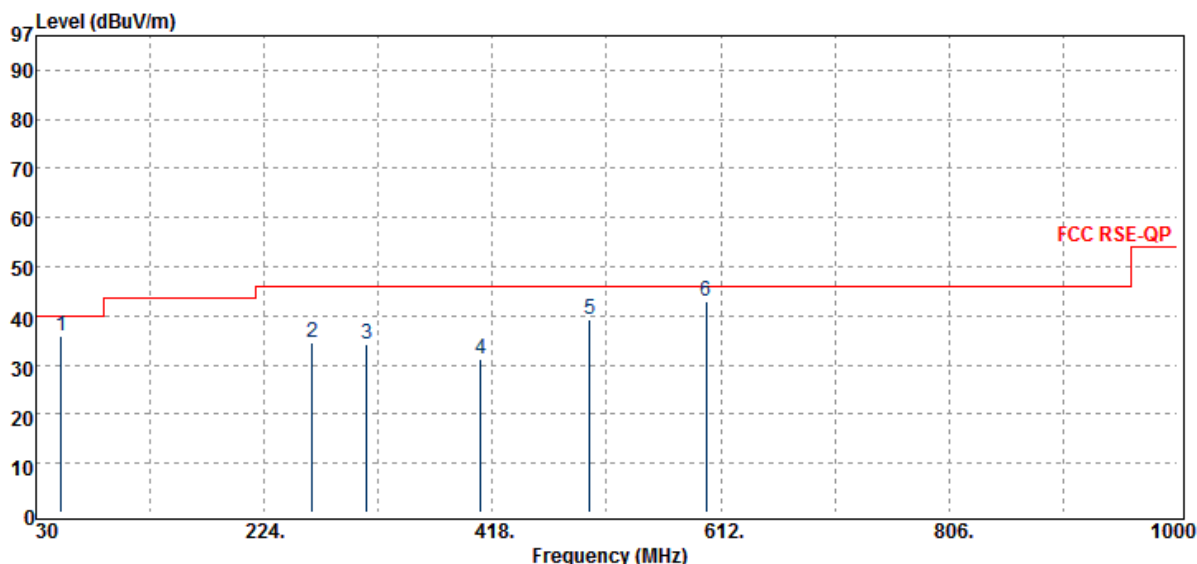
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Operation Band :802.11ac80B3
Fundamental Frequency :5610 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2017-07-19
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	S	QP	43.72	-7.75	35.97	40.00	-4.03
264.74	S	Peak	41.72	-7.05	34.67	46.00	-11.33
311.30	S	Peak	39.68	-5.45	34.23	46.00	-11.77
408.30	S	Peak	34.89	-3.53	31.36	46.00	-14.64
500.45	S	Peak	42.00	-2.68	39.32	46.00	-6.68
599.39	S	Peak	43.22	-0.27	42.95	46.00	-3.05

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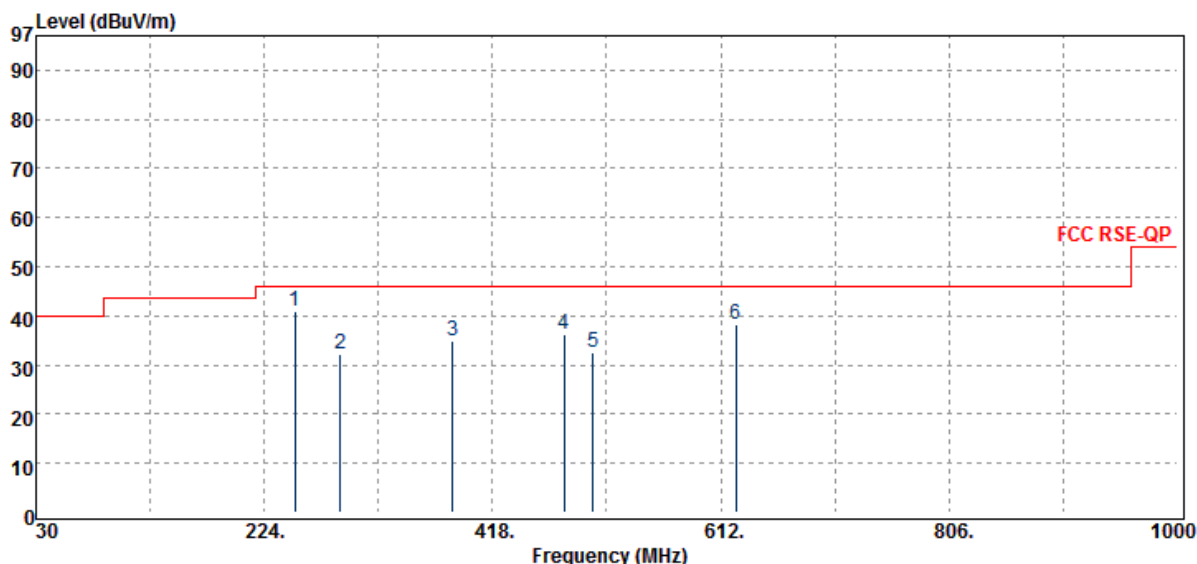
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Member of SGS Group

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

Test Date :2017-07-19
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
250.19	S	Peak	48.99	-7.93	41.06	46.00	-4.94
288.99	S	Peak	38.30	-6.09	32.21	46.00	-13.79
384.05	S	Peak	39.27	-4.35	34.92	46.00	-11.08
479.11	S	Peak	38.59	-2.39	36.20	46.00	-9.80
503.36	S	Peak	35.09	-2.40	32.69	46.00	-13.31
624.61	S	Peak	38.11	0.15	38.26	46.00	-7.74

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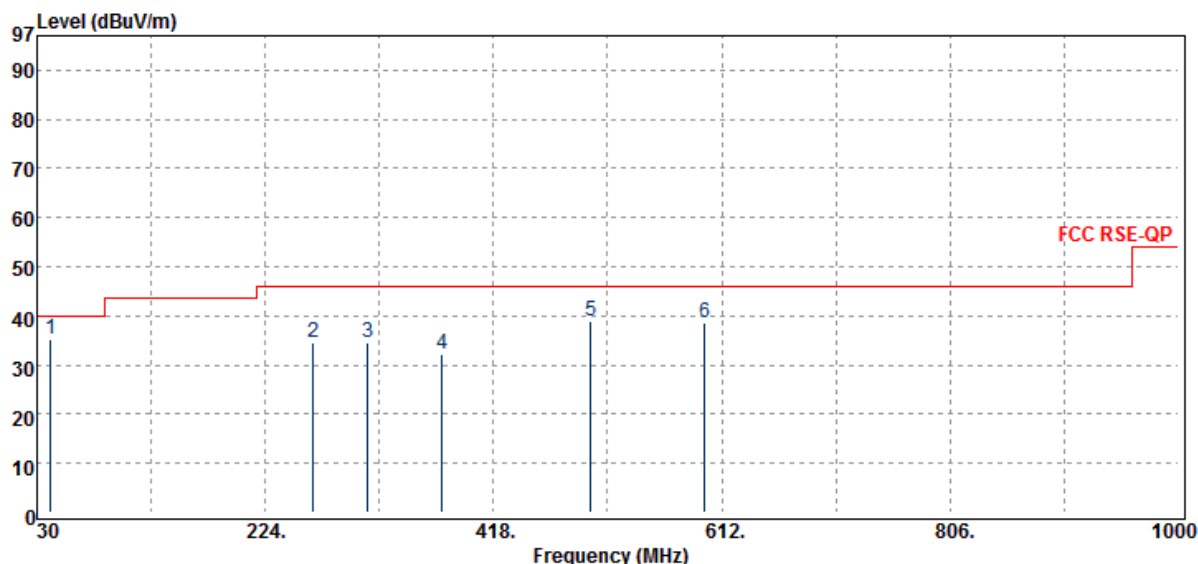
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Member of SGS Group

Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-19
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
41.64	S	QP	43.53	-8.38	35.15	40.00	-4.85
264.74	S	Peak	41.57	-7.05	34.52	46.00	-11.48
311.30	S	Peak	39.95	-5.45	34.50	46.00	-11.50
374.35	S	Peak	36.77	-4.54	32.23	46.00	-13.77
500.45	S	Peak	41.74	-2.68	39.06	46.00	-6.94
597.45	S	Peak	38.87	-0.19	38.68	46.00	-7.32

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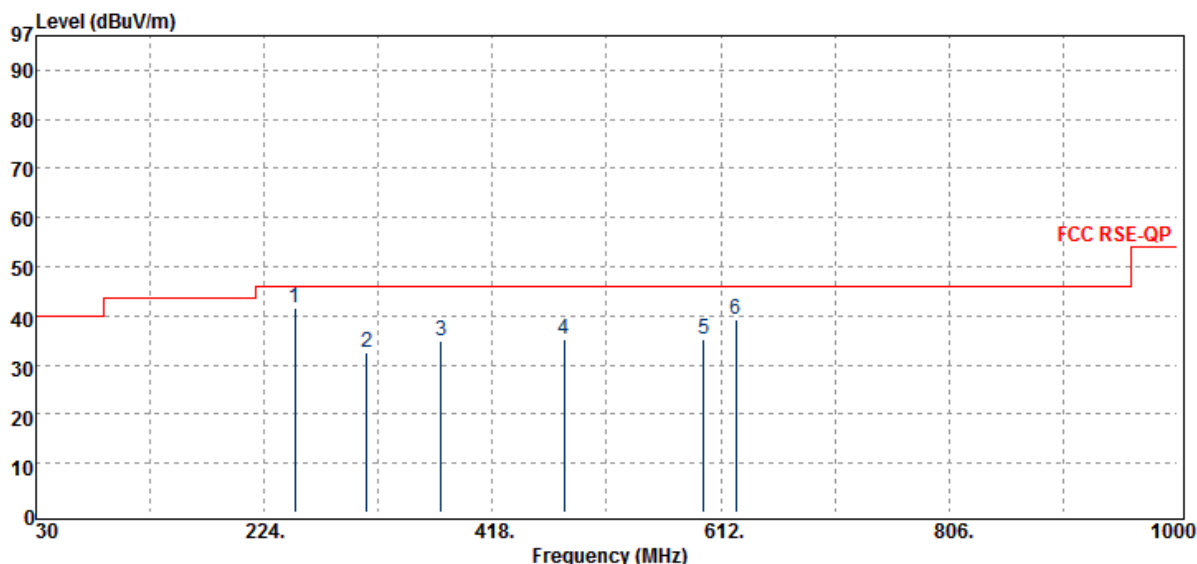
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Operation Band :802.11ac80B4
Fundamental Frequency :5775 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2017-07-19
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
250.19	S	Peak	49.44	-7.93	41.51	46.00	-4.49
311.30	S	Peak	38.10	-5.45	32.65	46.00	-13.35
374.35	S	Peak	39.31	-4.54	34.77	46.00	-11.23
479.11	S	Peak	37.47	-2.39	35.08	46.00	-10.92
597.45	S	Peak	35.56	-0.19	35.37	46.00	-10.63
624.61	S	Peak	39.04	0.15	39.19	46.00	-6.81

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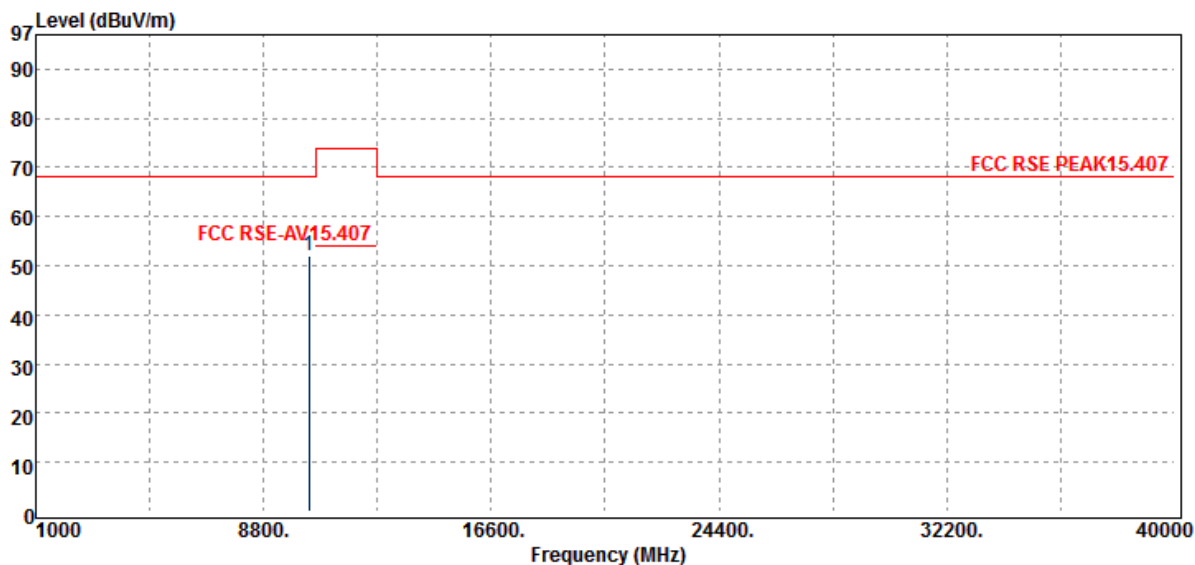
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Radiated Spurious Emission Measurement Result Above 1GHz Worst-Case Data:

Operation Band	:802.11aB1	Test Date	:2017-07-10
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
10360.00	H	Peak	33.67	18.29	51.96	68.30	-16.34

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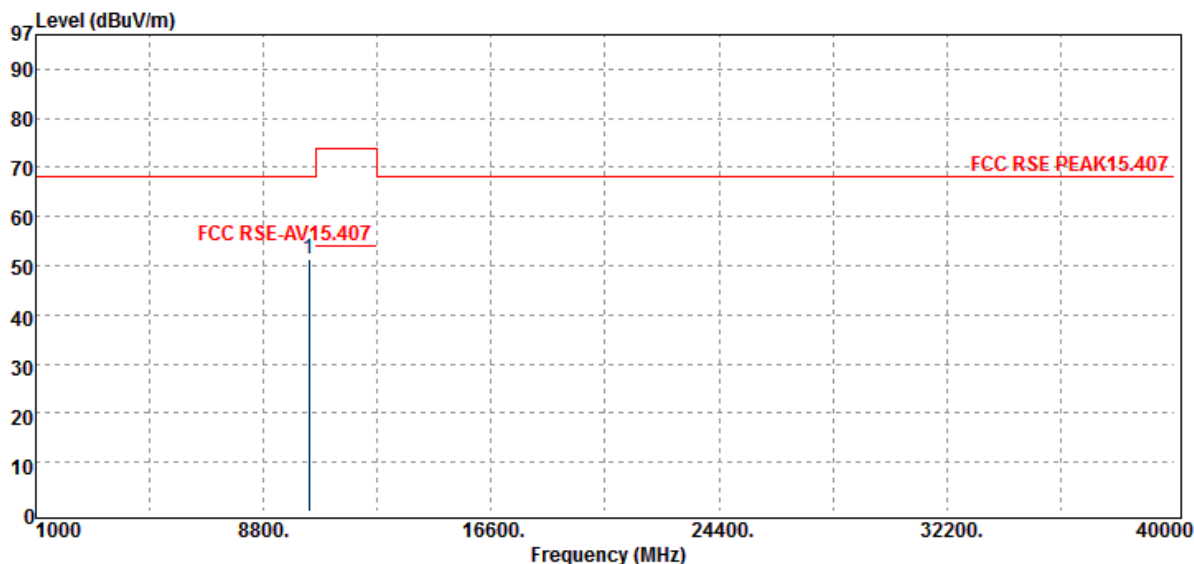
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Operation Band :802.11aB1
 Fundamental Frequency :5180 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10360.00	H	Peak	33.18	18.29	51.47	68.30	-16.83

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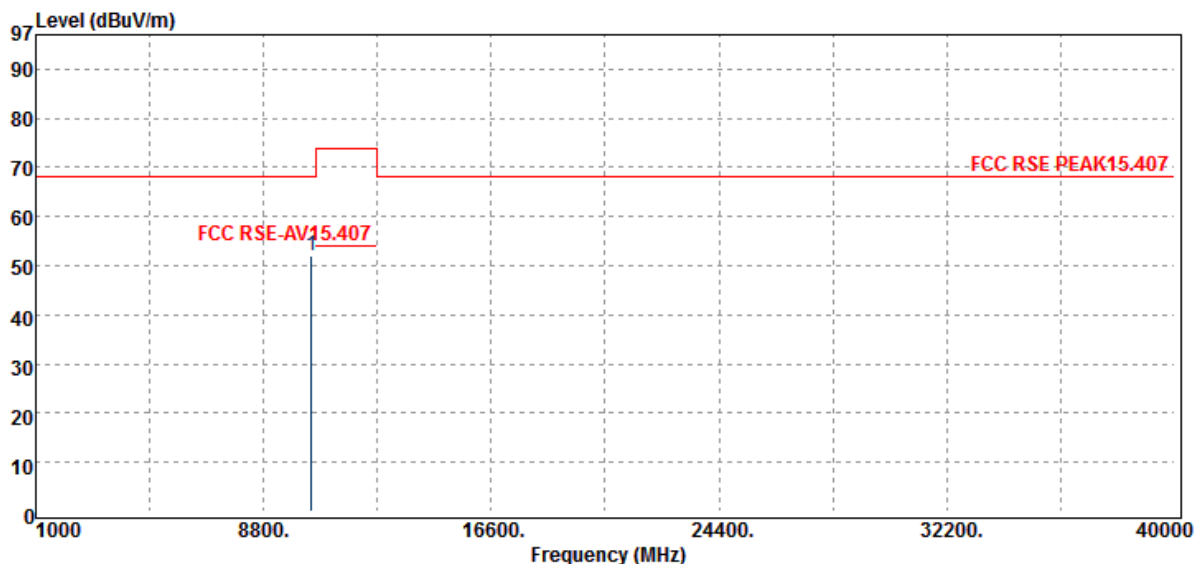
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Operation Band :802.11aB1
 Fundamental Frequency :5220 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10440.00	H	Peak	33.43	18.69	52.12	68.30	-16.18

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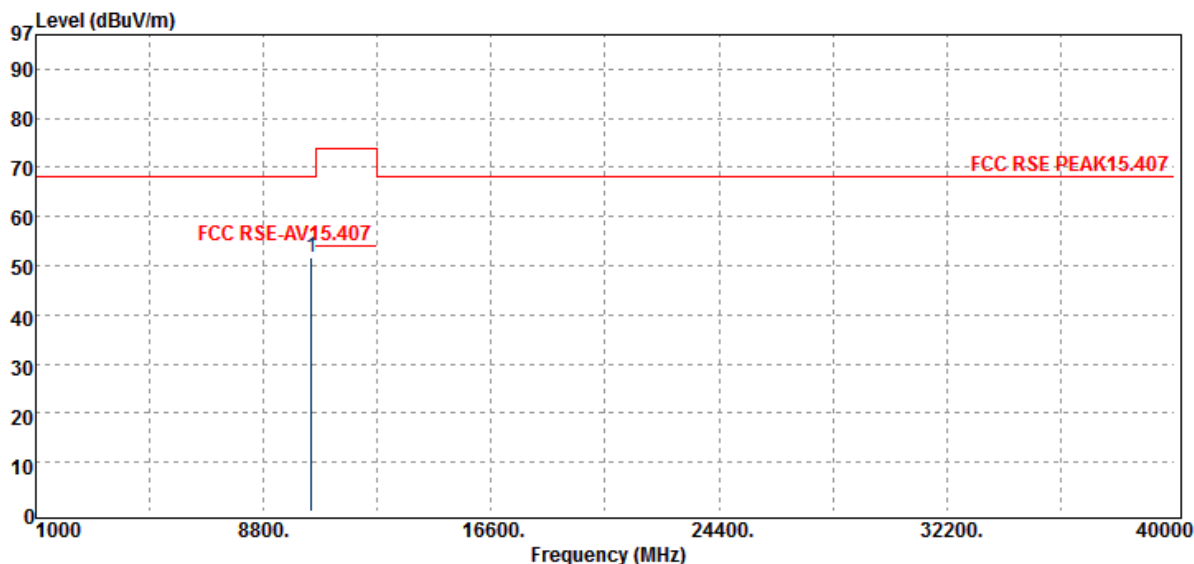
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Operation Band :802.11aB1
 Fundamental Frequency :5220 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10440.00	H	Peak	33.13	18.69	51.82	68.30	-16.48

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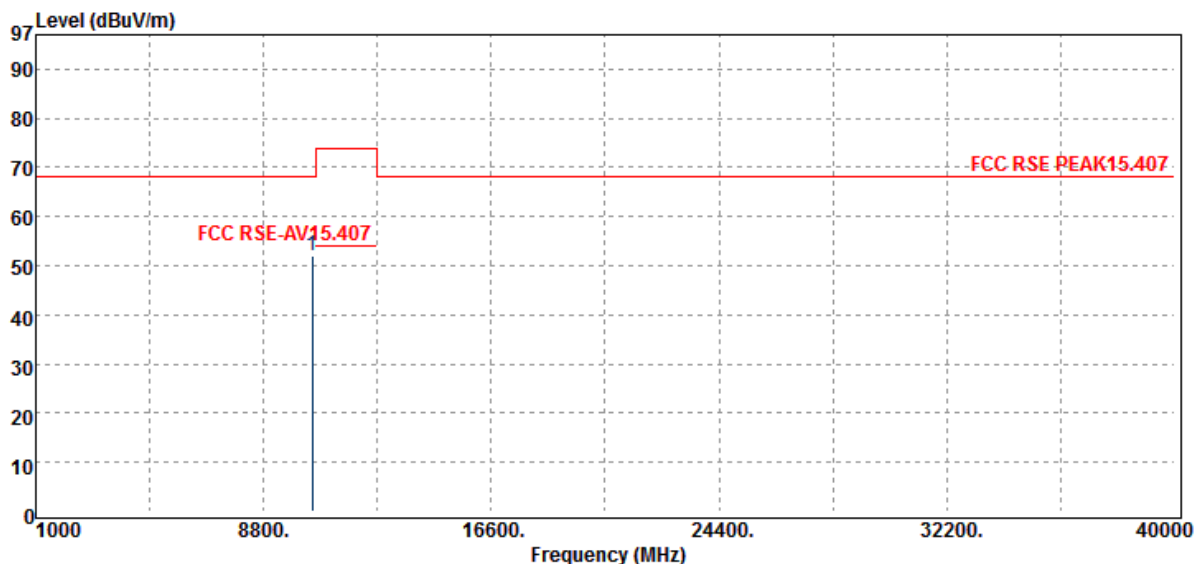
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Operation Band :802.11aB1
 Fundamental Frequency :5240 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10480.00	H	Peak	33.80	18.30	52.10	68.30	-16.20

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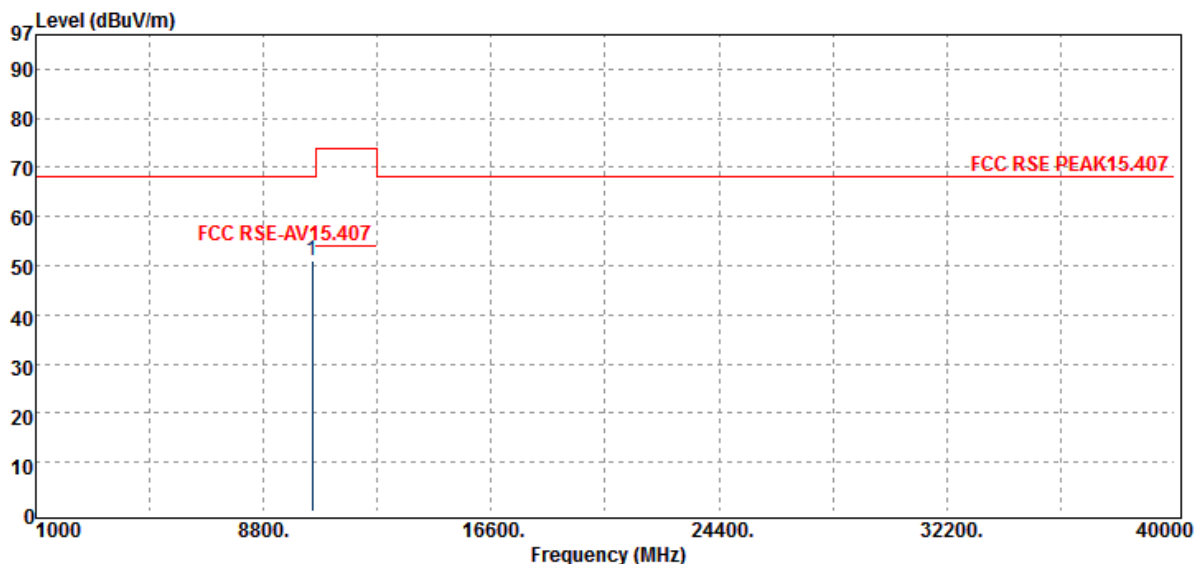
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Operation Band :802.11aB1
 Fundamental Frequency :5240 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10480.00	H	Peak	32.84	18.30	51.14	68.30	-17.16

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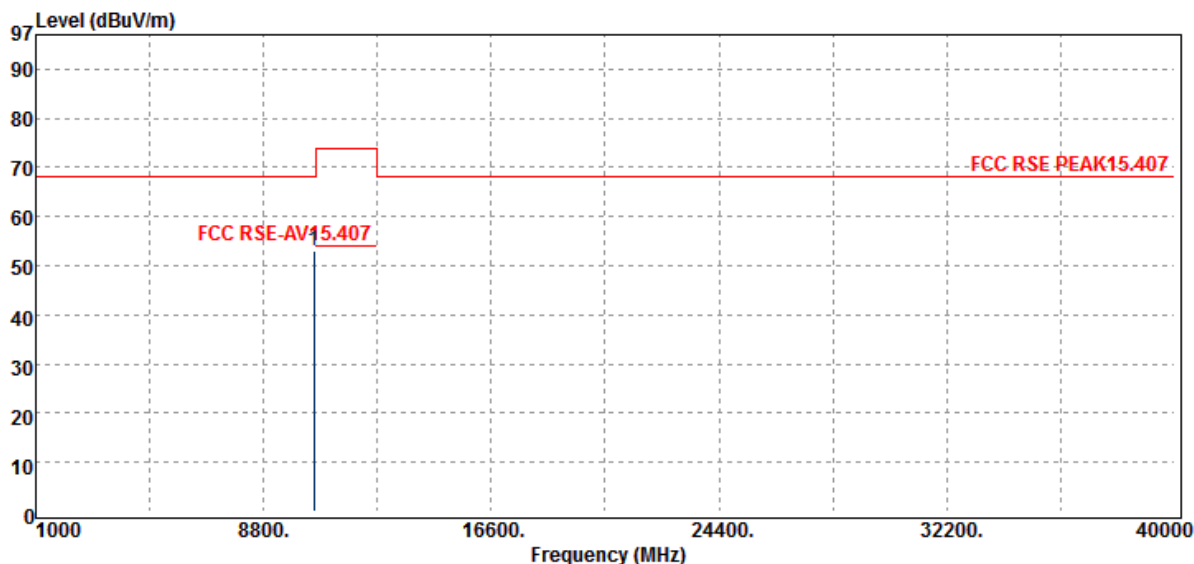
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Operation Band :802.11aB2
 Fundamental Frequency :5260 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10520.00	H	Peak	33.52	19.38	52.90	68.30	-15.40

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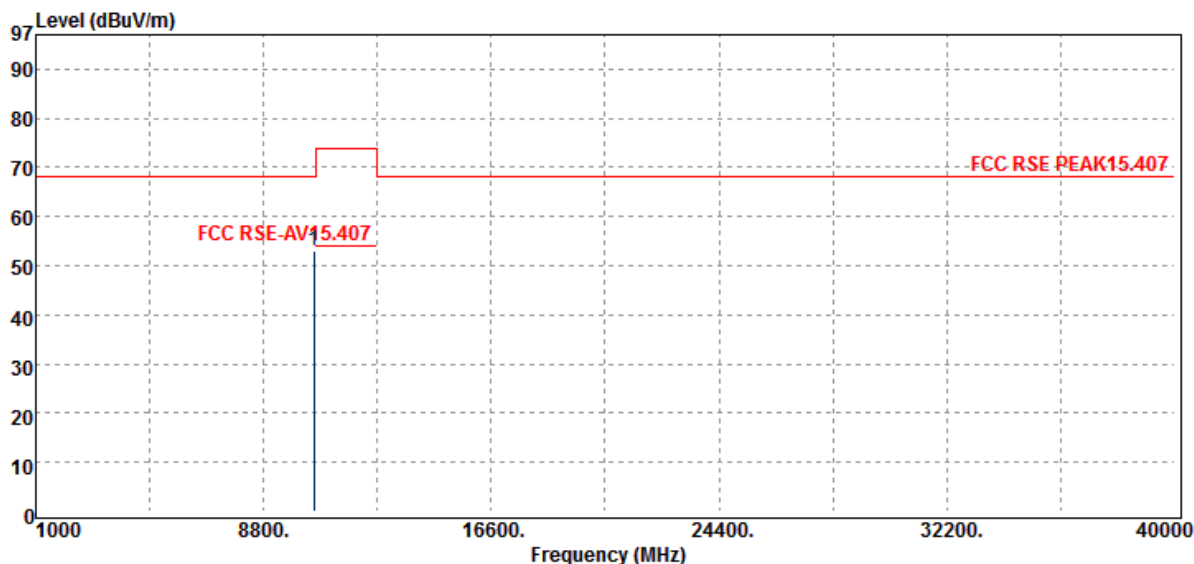
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Operation Band :802.11aB2
 Fundamental Frequency :5260 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10520.00	H	Peak	33.61	19.38	52.99	68.30	-15.31

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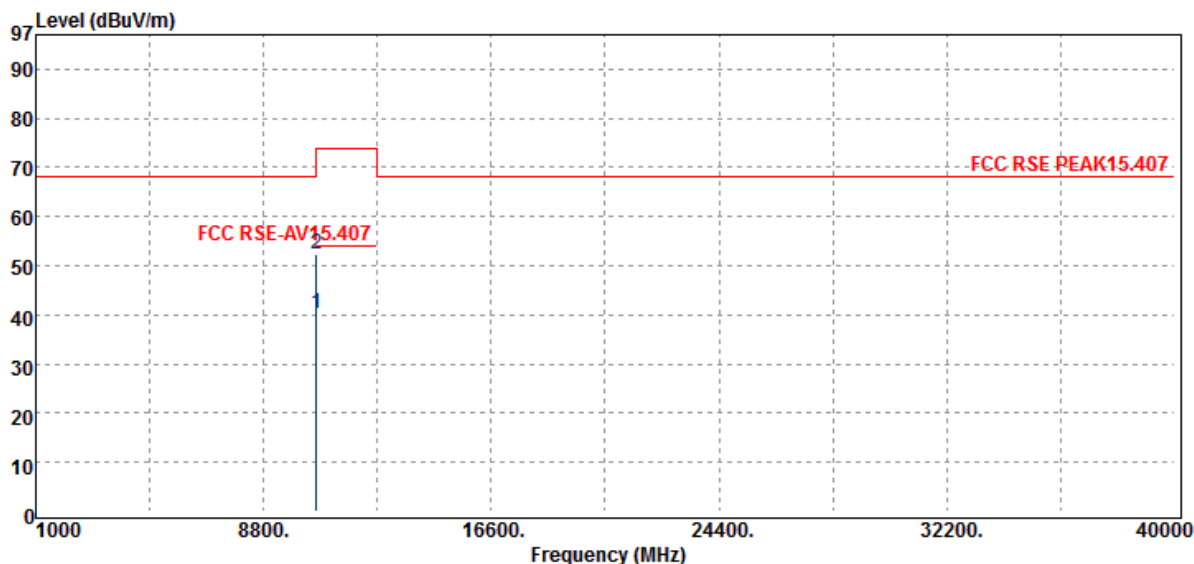
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Operation Band :802.11aB2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10600.00	H	Average	21.32	18.91	40.23	54.00	-13.77
10600.00	H	Peak	33.43	18.91	52.34	74.00	-21.66

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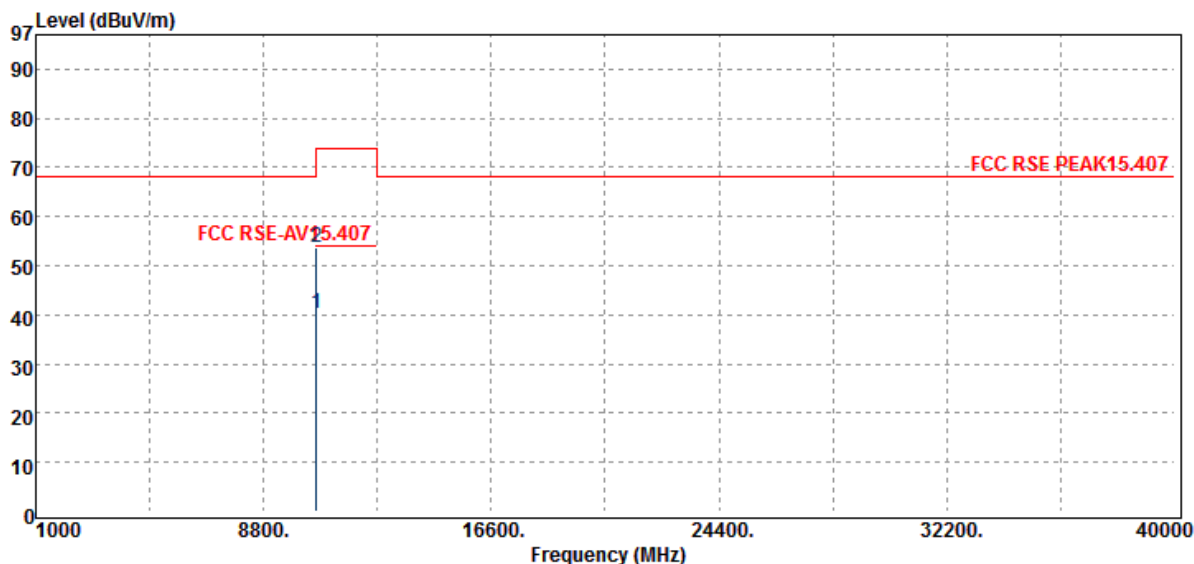
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2017-07-10
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10600.00	H	Average	21.45	18.91	40.36	54.00	-13.64
10600.00	H	Peak	34.95	18.91	53.86	74.00	-20.14

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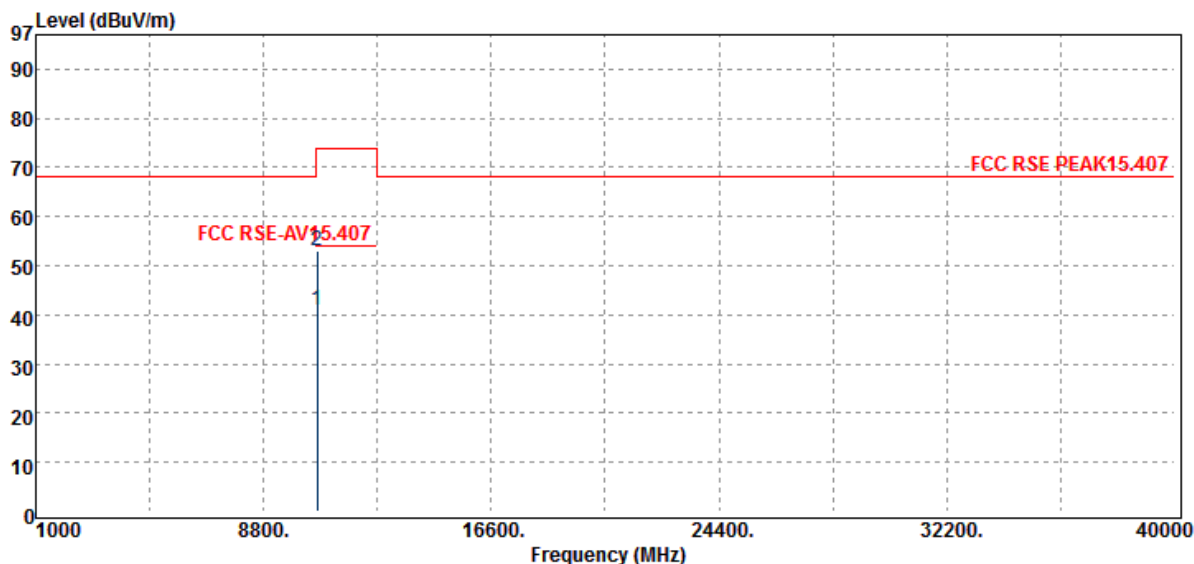
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10640.00	H	Average	21.88	19.19	41.07	54.00	-12.93
10640.00	H	Peak	33.86	19.19	53.05	74.00	-20.95

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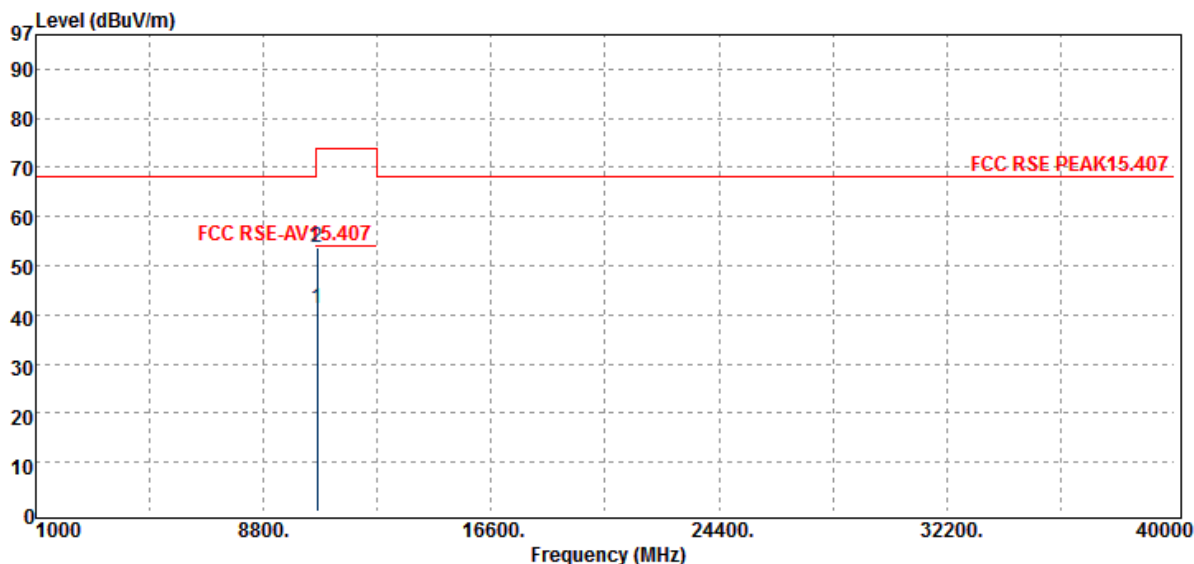
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Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10640.00	H	Average	21.95	19.19	41.14	54.00	-12.86
10640.00	H	Peak	34.38	19.19	53.57	74.00	-20.43

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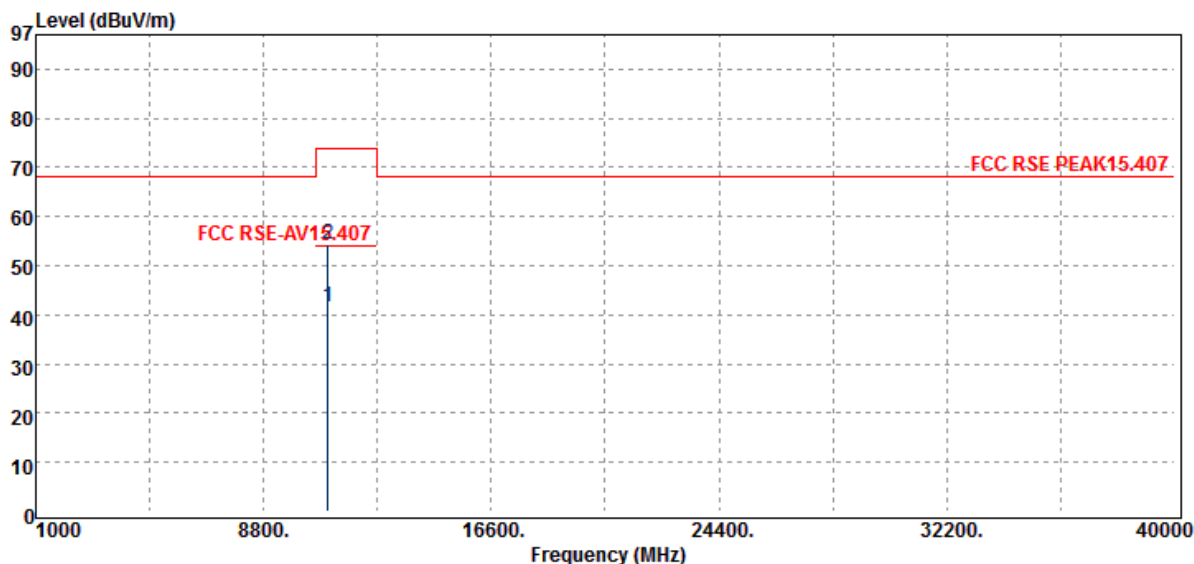
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www.tw.sgs.com

Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11000.00	H	Average	21.62	20.16	41.78	54.00	-12.22
11000.00	H	Peak	34.14	20.16	54.30	74.00	-19.70

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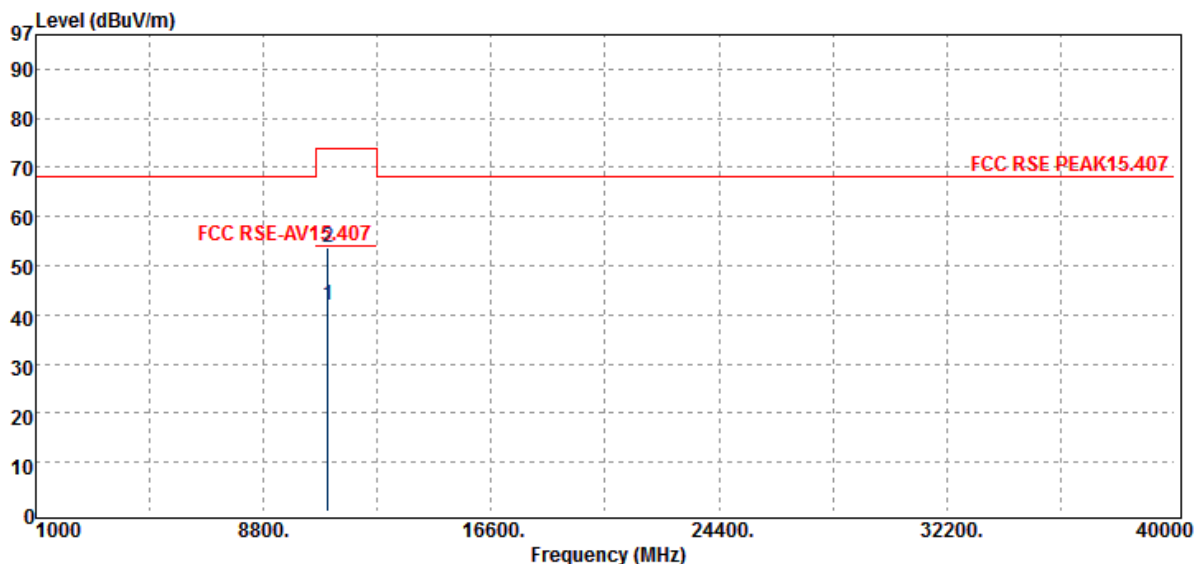
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Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11000.00	H	Average	21.75	20.16	41.91	54.00	-12.09
11000.00	H	Peak	33.46	20.16	53.62	74.00	-20.38

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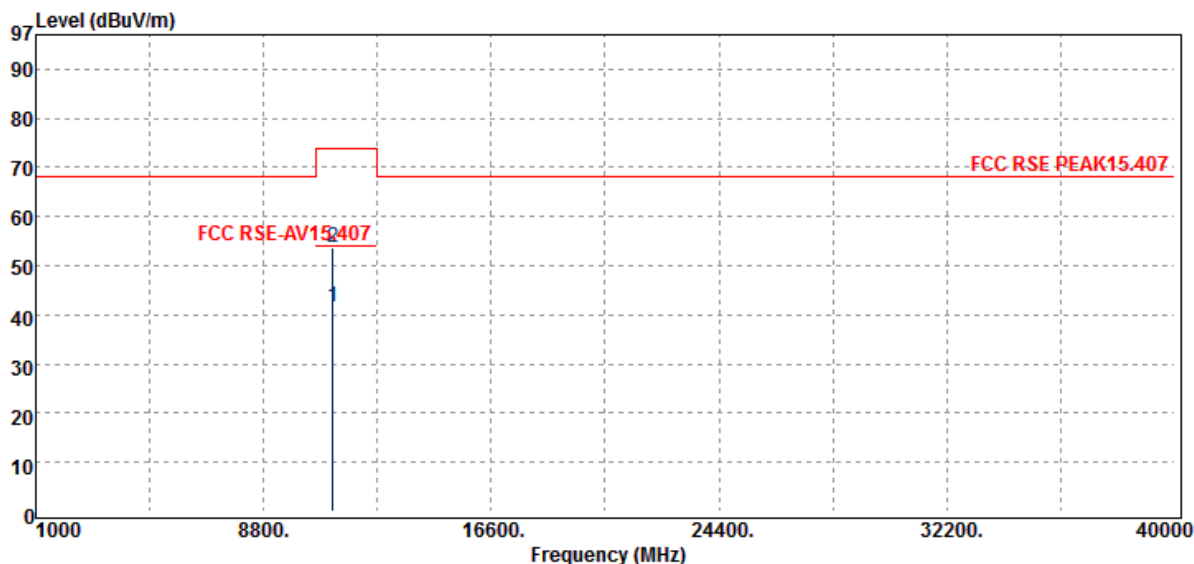
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Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11160.00	H	Average	21.17	20.44	41.61	54.00	-12.39
11160.00	H	Peak	33.39	20.44	53.83	74.00	-20.17

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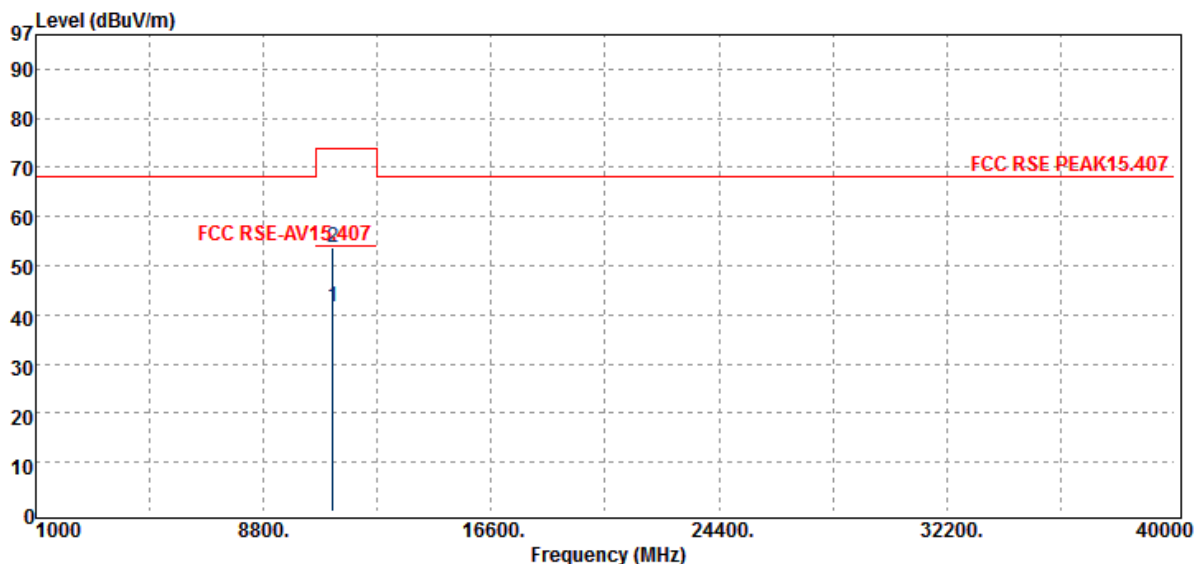
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Operation Band :802.11aB3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
11160.00	H	Average	21.18	20.44	41.62	54.00	-12.38
11160.00	H	Peak	33.26	20.44	53.70	74.00	-20.30

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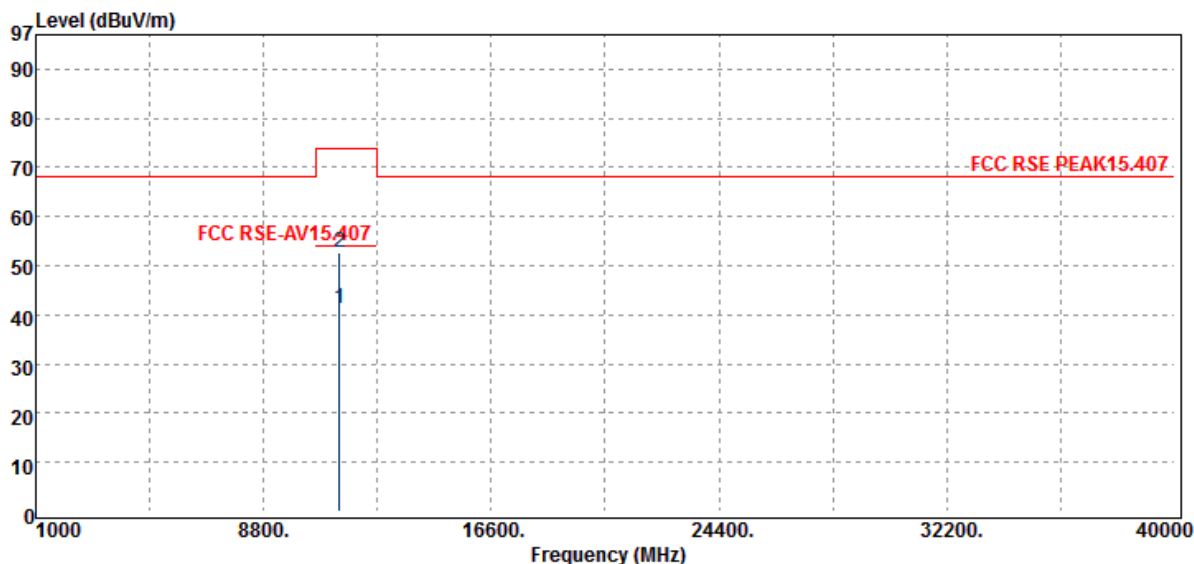
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Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11400.00	H	Average	20.79	20.56	41.35	54.00	-12.65
11400.00	H	Peak	32.10	20.56	52.66	74.00	-21.34

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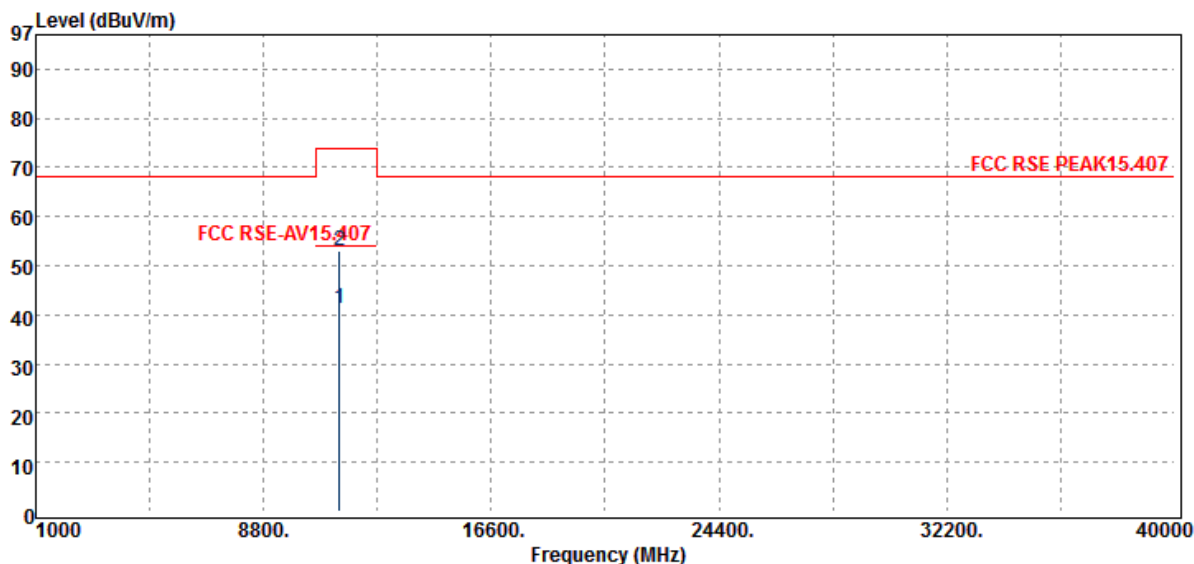
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Operation Band :802.11aB3
 Fundamental Frequency :5700 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11400.00	H	Average	20.85	20.56	41.41	54.00	-12.59
11400.00	H	Peak	32.52	20.56	53.08	74.00	-20.92

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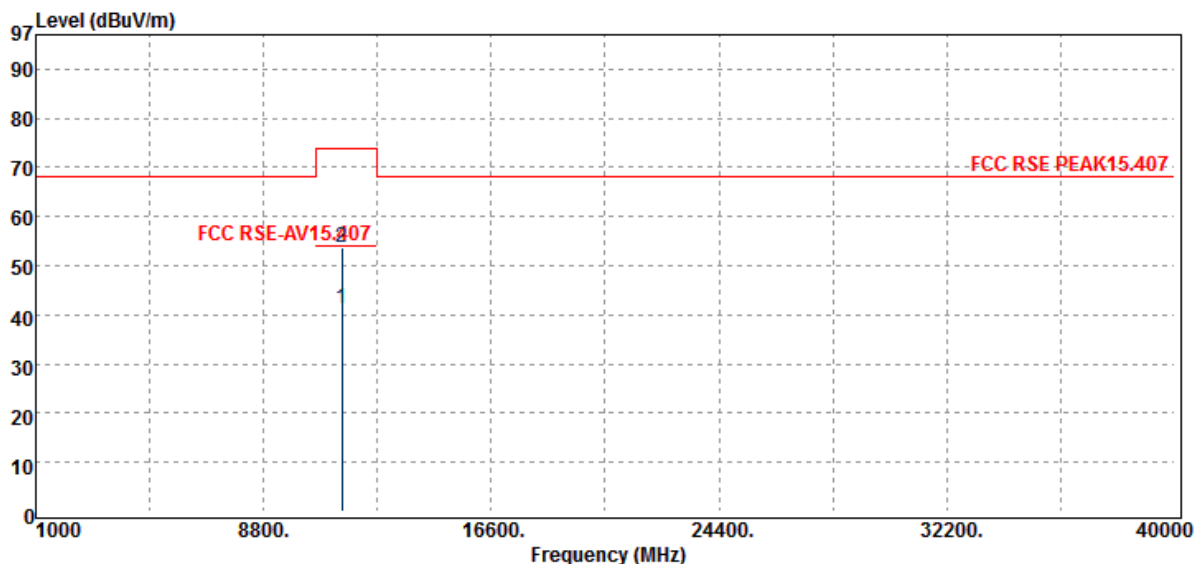
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB4
Fundamental Frequency :5745 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2017-07-10
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11490.00	H	Average	20.79	20.42	41.21	54.00	-12.79
11490.00	H	Peak	33.19	20.42	53.61	74.00	-20.39

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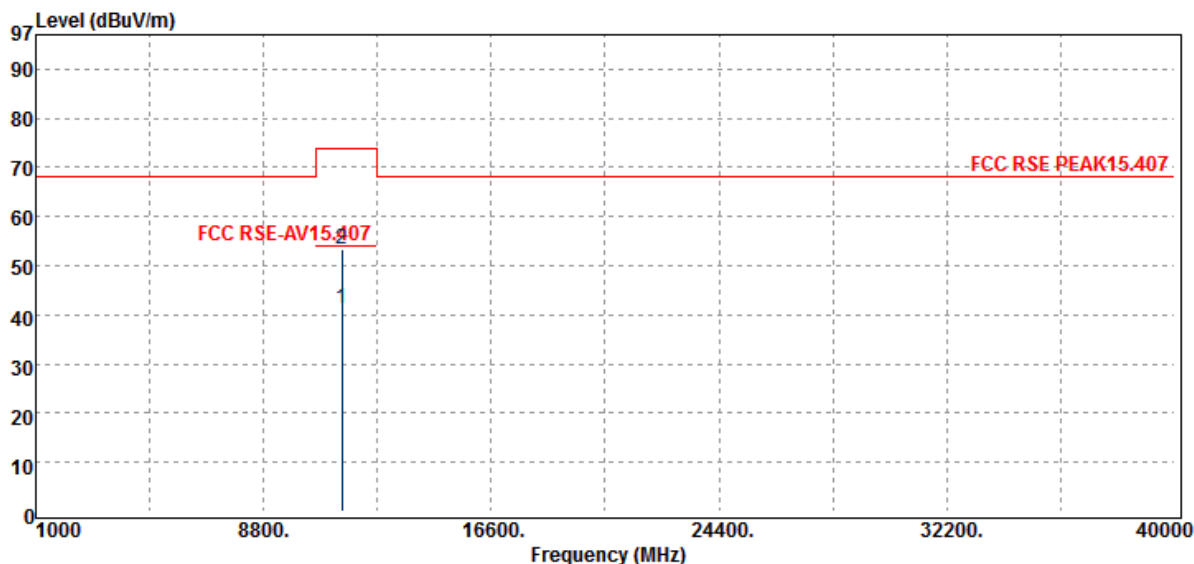
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Operation Band :802.11aB4
 Fundamental Frequency :5745 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11490.00	H	Average	20.86	20.42	41.28	54.00	-12.72
11490.00	H	Peak	32.86	20.42	53.28	74.00	-20.72

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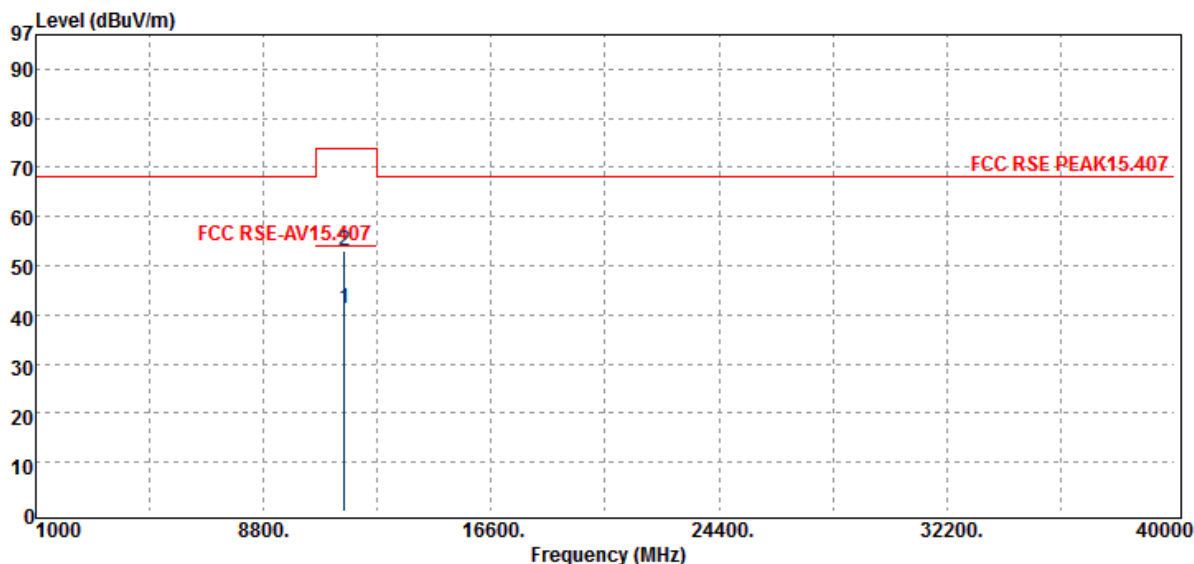
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Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2017-07-10
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11570.00	H	Average	20.82	20.58	41.40	54.00	-12.60
11570.00	H	Peak	32.43	20.58	53.01	74.00	-20.99

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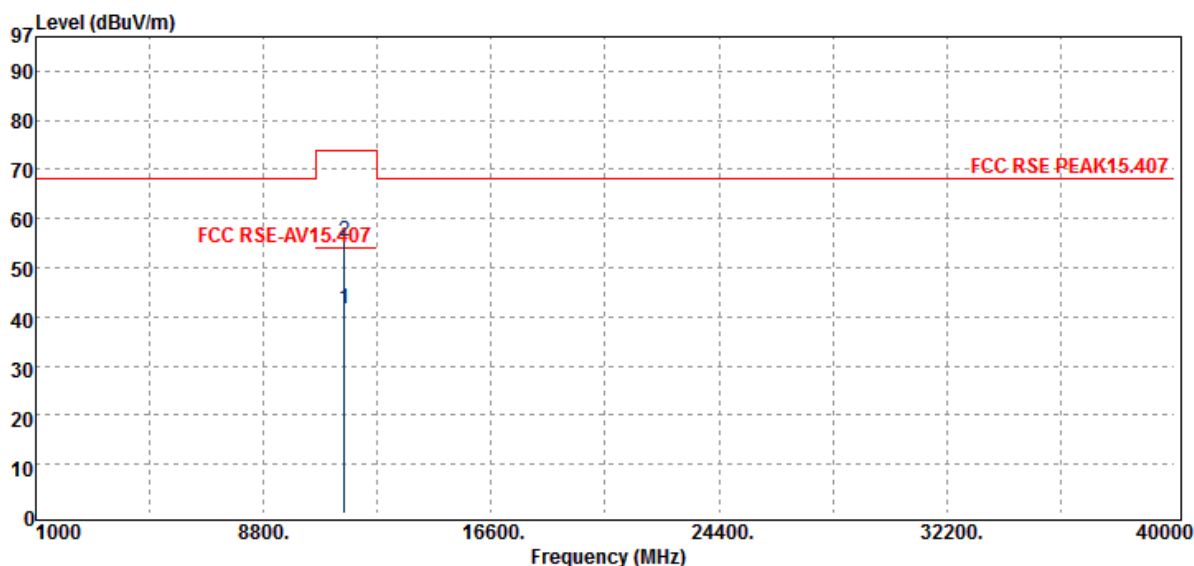
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Operation Band :802.11aB4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11570.00	H	Average	20.95	20.58	41.53	54.00	-12.47
11570.00	H	Peak	34.70	20.58	55.28	74.00	-18.72

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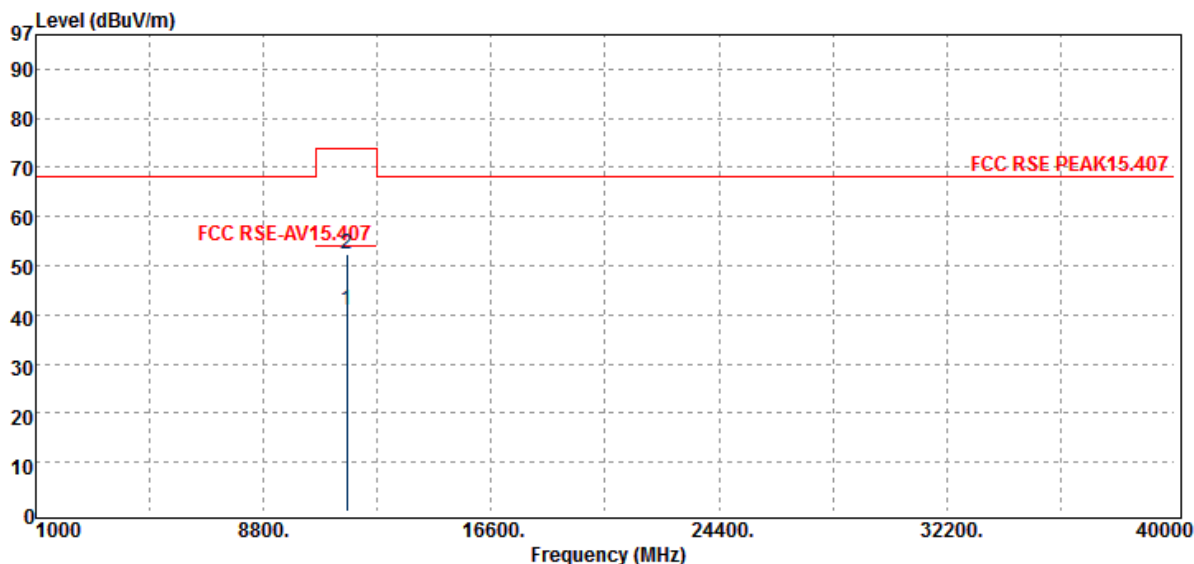
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB4
 Fundamental Frequency :5825 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
11650.00	H	Average	20.54	20.43	40.97	54.00	-13.03
11650.00	H	Peak	31.88	20.43	52.31	74.00	-21.69

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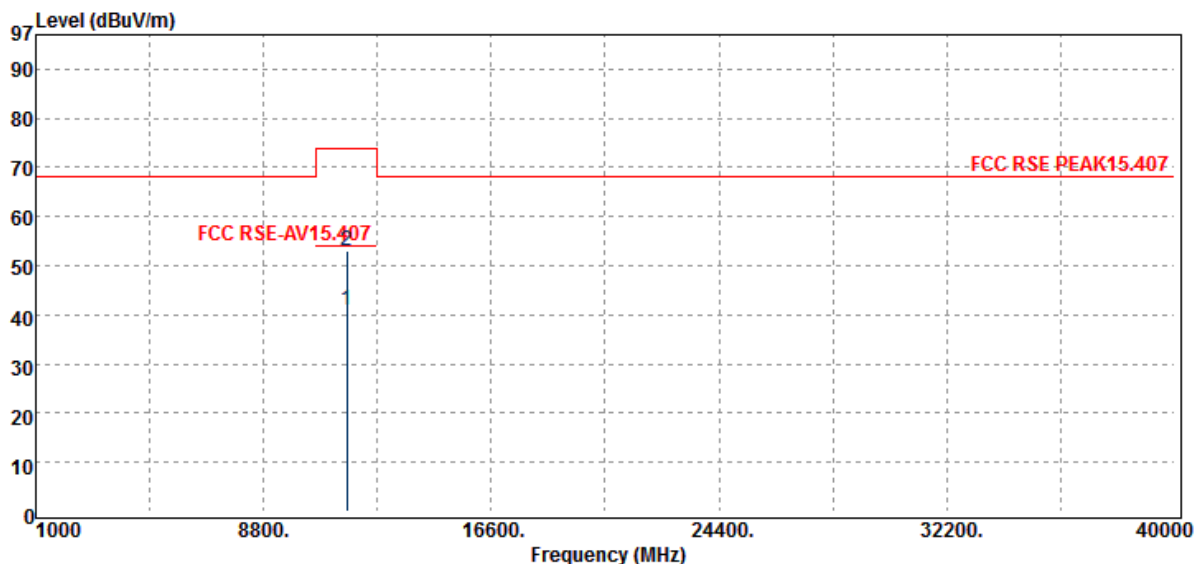
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Member of SGS Group

Operation Band :802.11aB4
 Fundamental Frequency :5825 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11650.00	H	Average	20.63	20.43	41.06	54.00	-12.94
11650.00	H	Peak	32.50	20.43	52.93	74.00	-21.07

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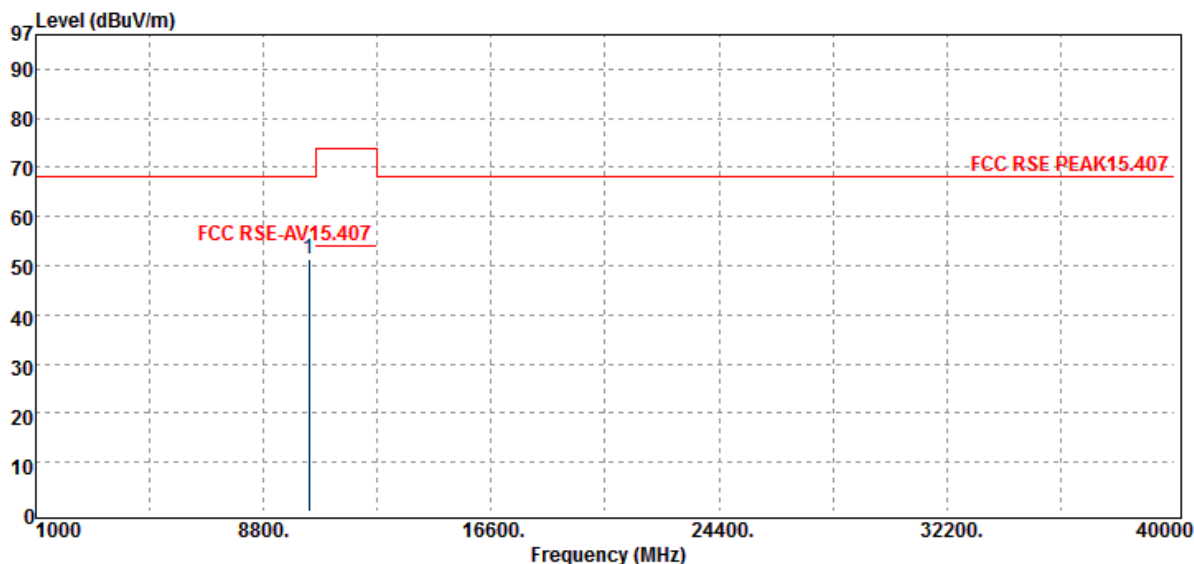
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Operation Band :802.11n20B1
 Fundamental Frequency :5180 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10360.00	H	Peak	33.05	18.29	51.34	68.30	-16.96

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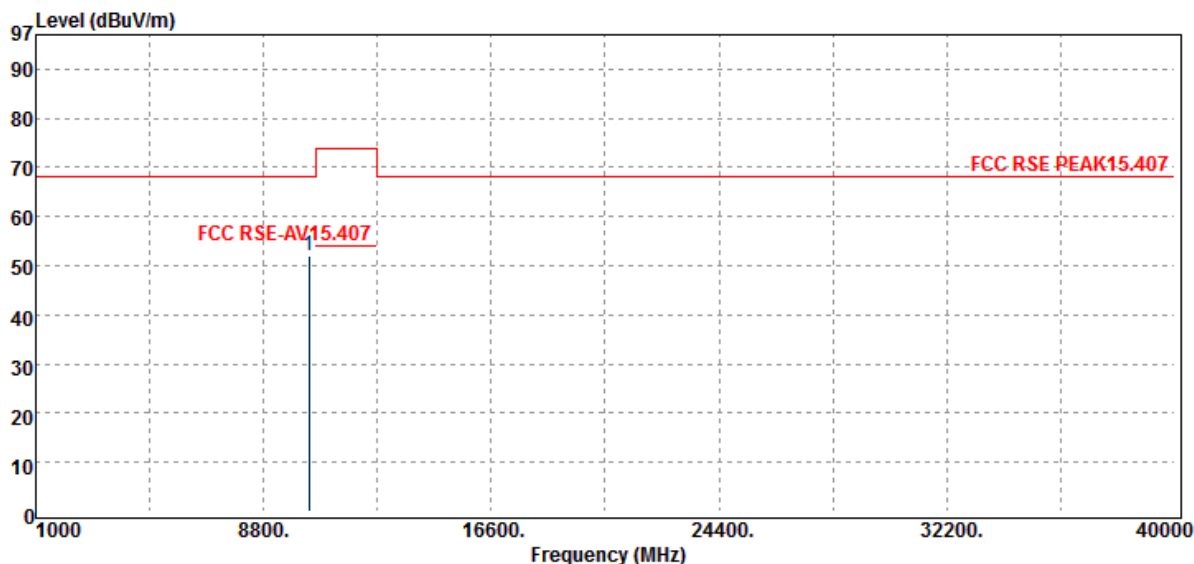
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Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10360.00	H	Peak	33.67	18.29	51.96	68.30	-16.34

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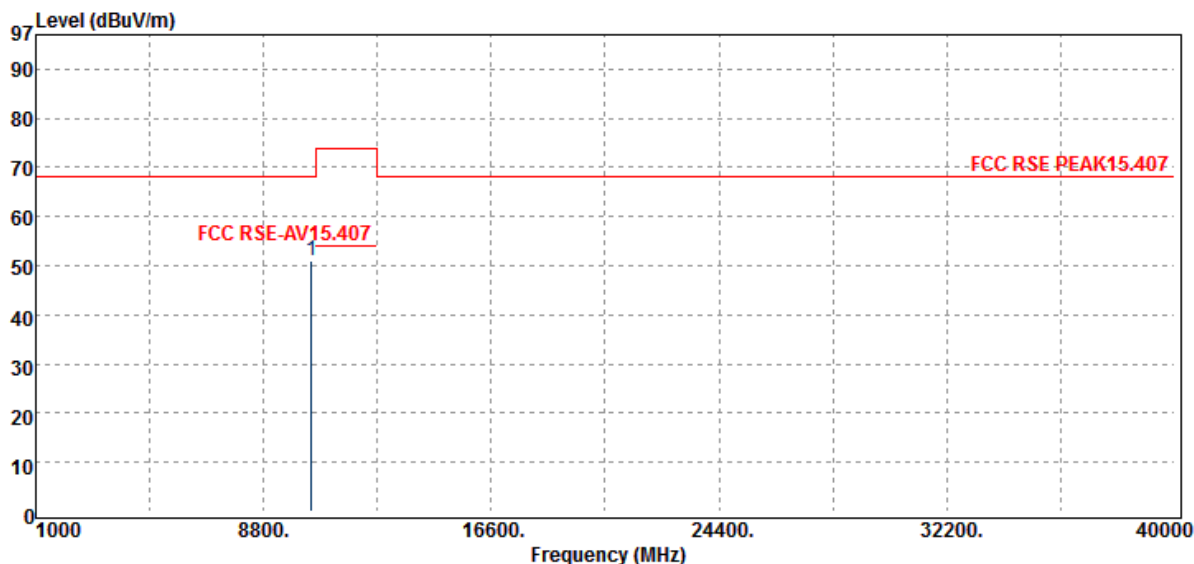
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Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10440.00	H	Peak	32.46	18.69	51.15	68.30	-17.15

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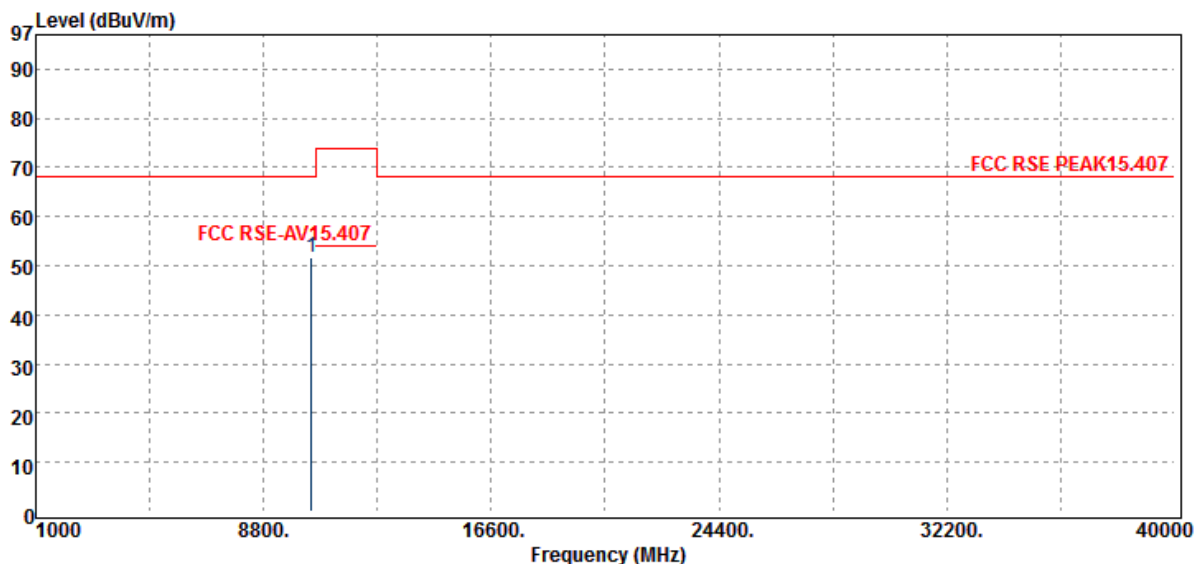
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Operation Band :802.11n20B1
 Fundamental Frequency :5220 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10440.00	H	Peak	32.84	18.69	51.53	68.30	-16.77

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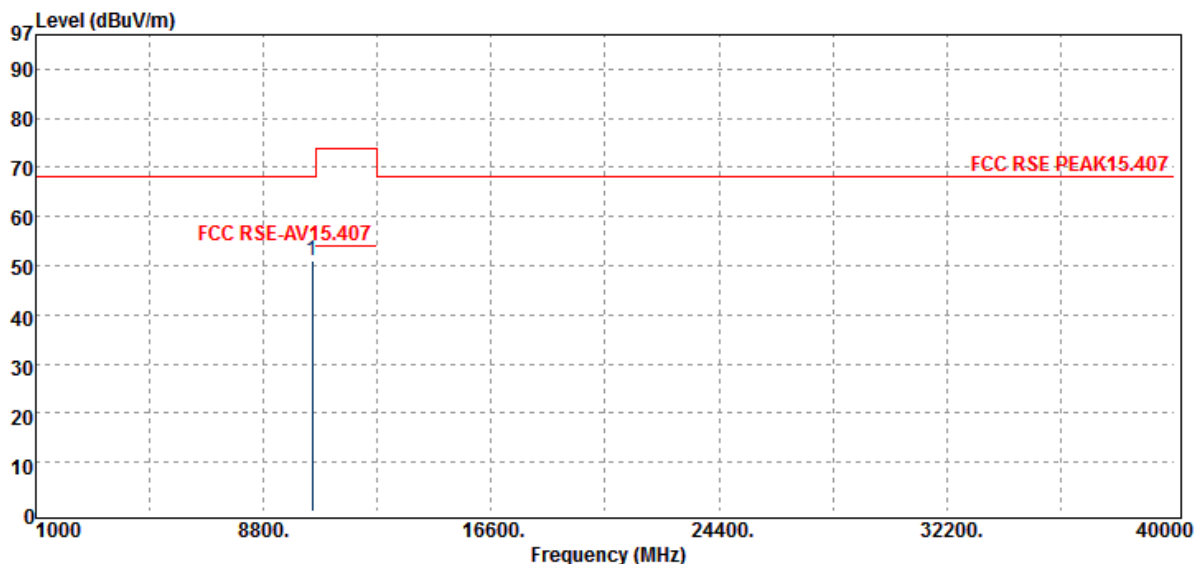
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Operation Band :802.11n20B1
 Fundamental Frequency :5240 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10480.00	H	Peak	32.88	18.30	51.18	68.30	-17.12

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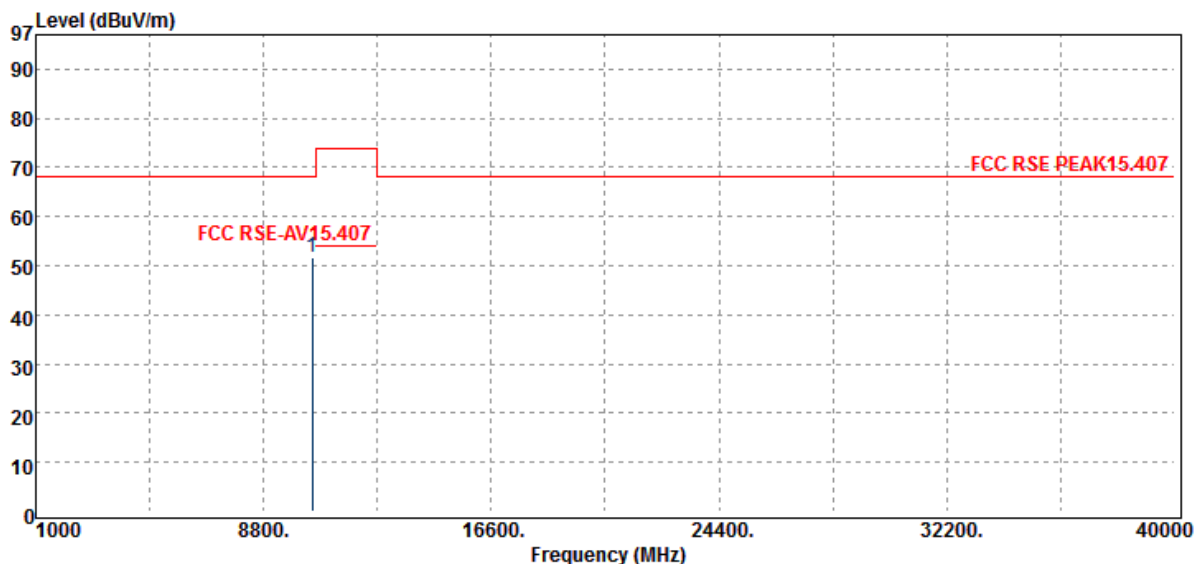
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Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
10480.00	H	Peak	33.34	18.30	51.64	68.30	-16.66

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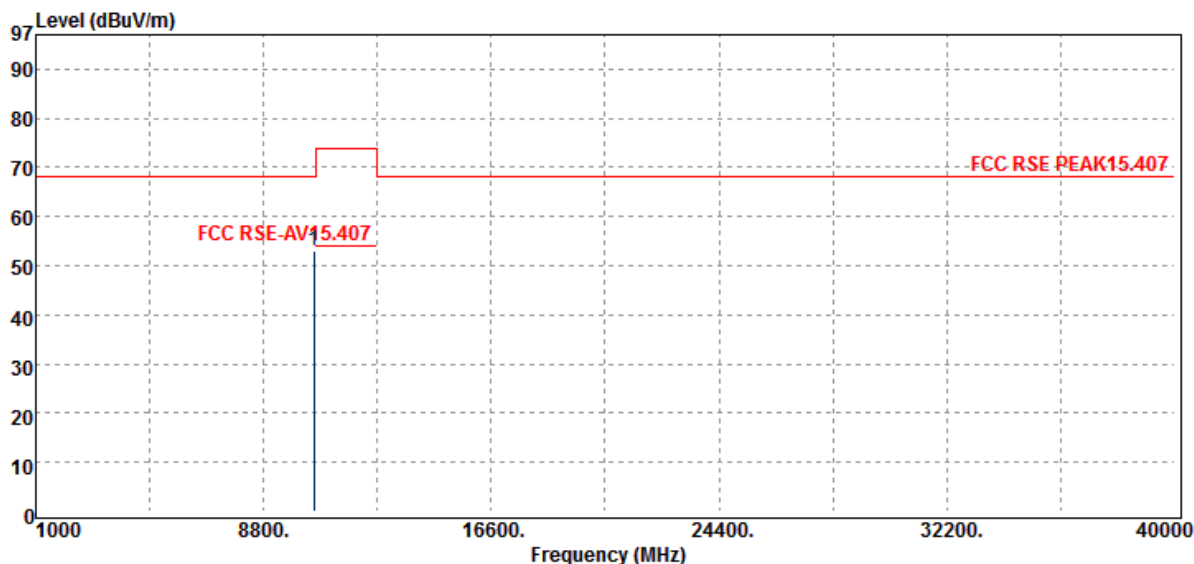
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Member of SGS Group

Operation Band :802.11n20B2
 Fundamental Frequency :5260 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10520.00	H	Peak	33.49	19.38	52.87	68.30	-15.43

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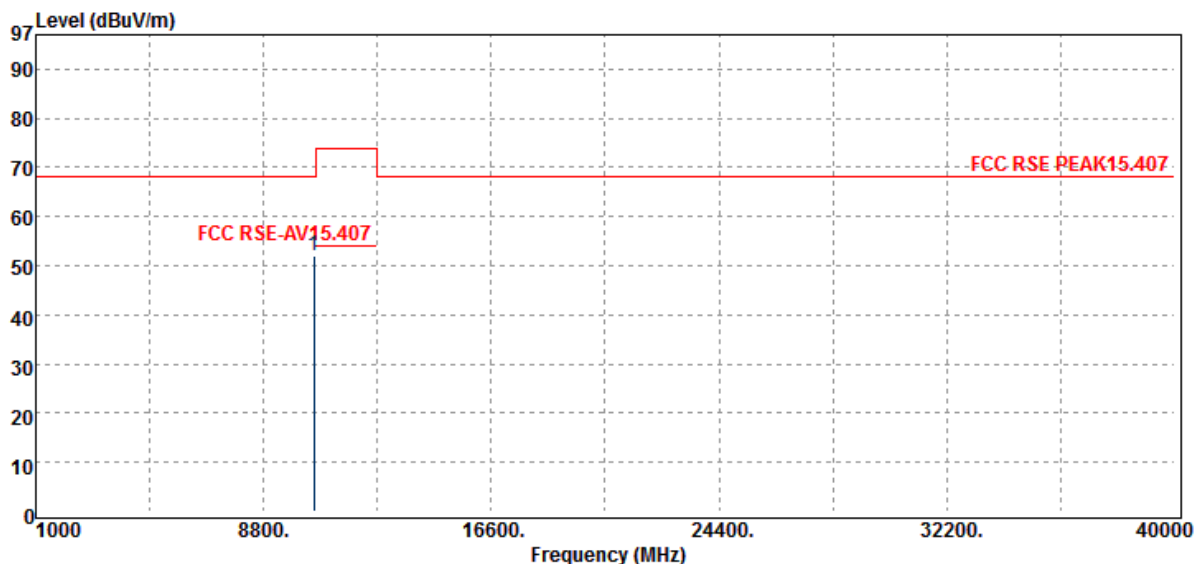
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Operation Band :802.11n20B2
 Fundamental Frequency :5260 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10520.00	H	Peak	32.75	19.38	52.13	68.30	-16.17

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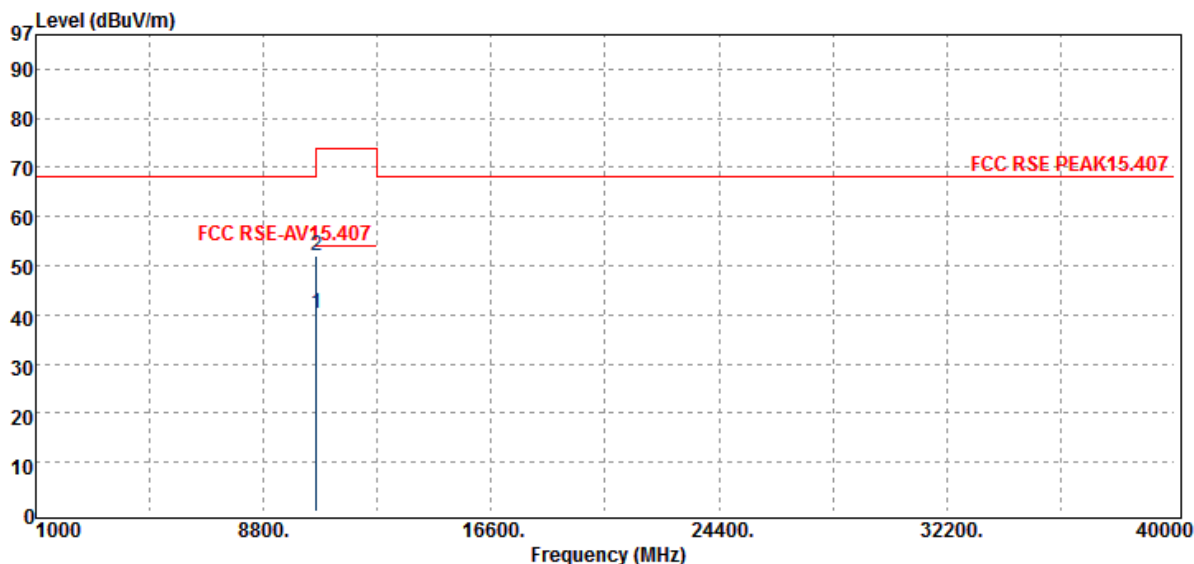
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Operation Band	:802.11n20B2	Test Date	:2017-07-10
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10600.00	H	Average	21.46	18.91	40.37	54.00	-13.63
10600.00	H	Peak	32.96	18.91	51.87	74.00	-22.13

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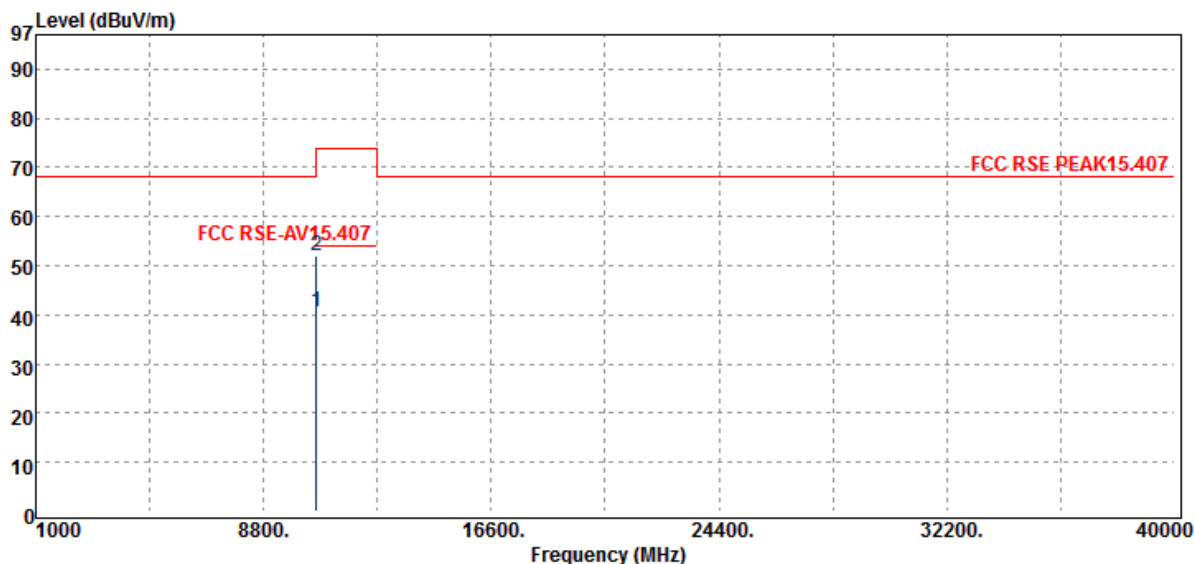
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Operation Band	:802.11n20B2	Test Date	:2017-07-10
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10600.00	H	Average	21.57	18.91	40.48	54.00	-13.52
10600.00	H	Peak	33.00	18.91	51.91	74.00	-22.09

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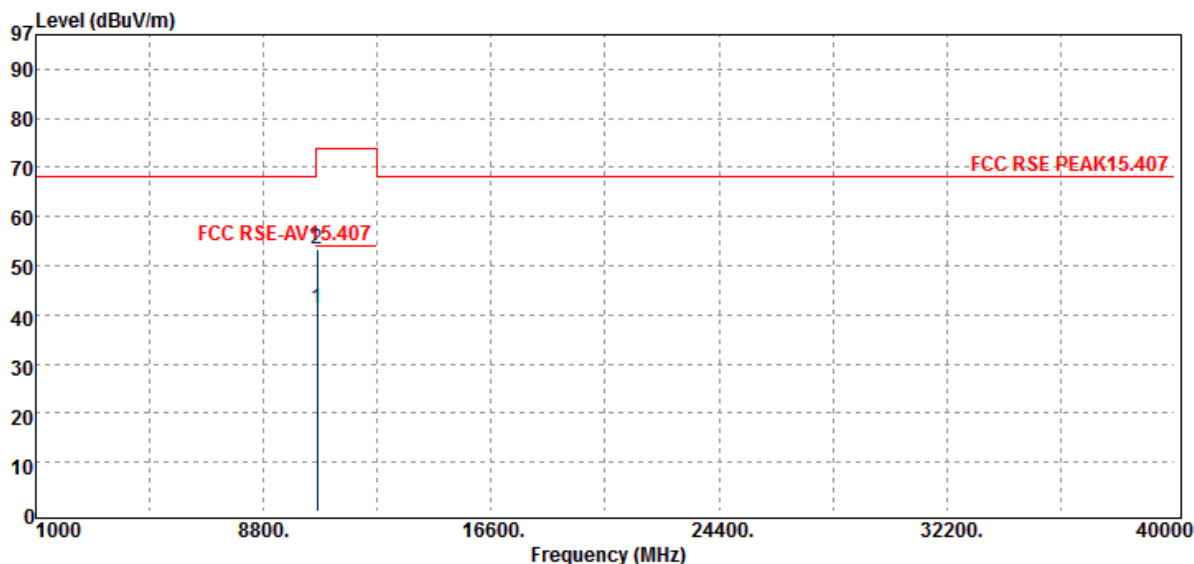
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Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10640.00	H	Average	22.02	19.19	41.21	54.00	-12.79
10640.00	H	Peak	34.29	19.19	53.48	74.00	-20.52

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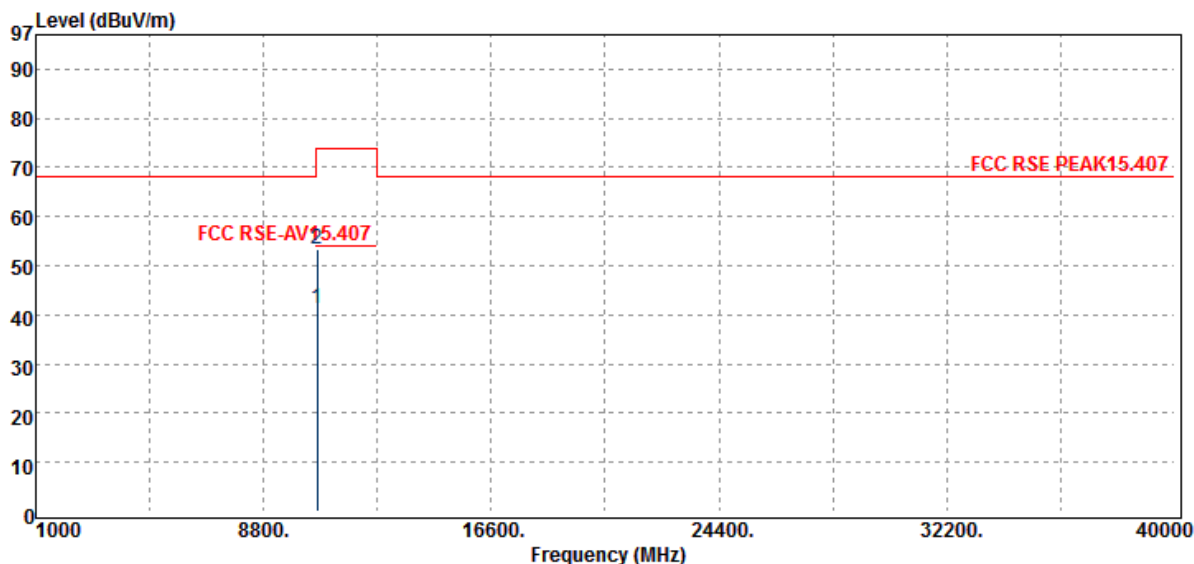
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Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10640.00	H	Average	22.09	19.19	41.28	54.00	-12.72
10640.00	H	Peak	34.19	19.19	53.38	74.00	-20.62

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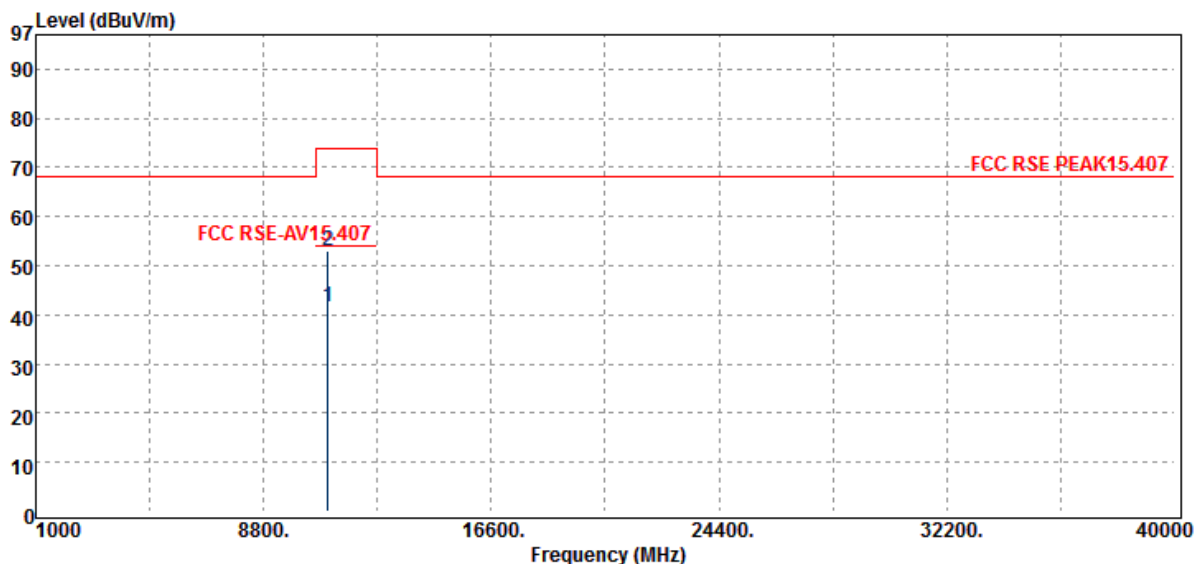
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Operation Band :802.11n20B3
Fundamental Frequency :5500 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2017-07-10
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11000.00	H	Average	21.62	20.16	41.78	54.00	-12.22
11000.00	H	Peak	32.99	20.16	53.15	74.00	-20.85

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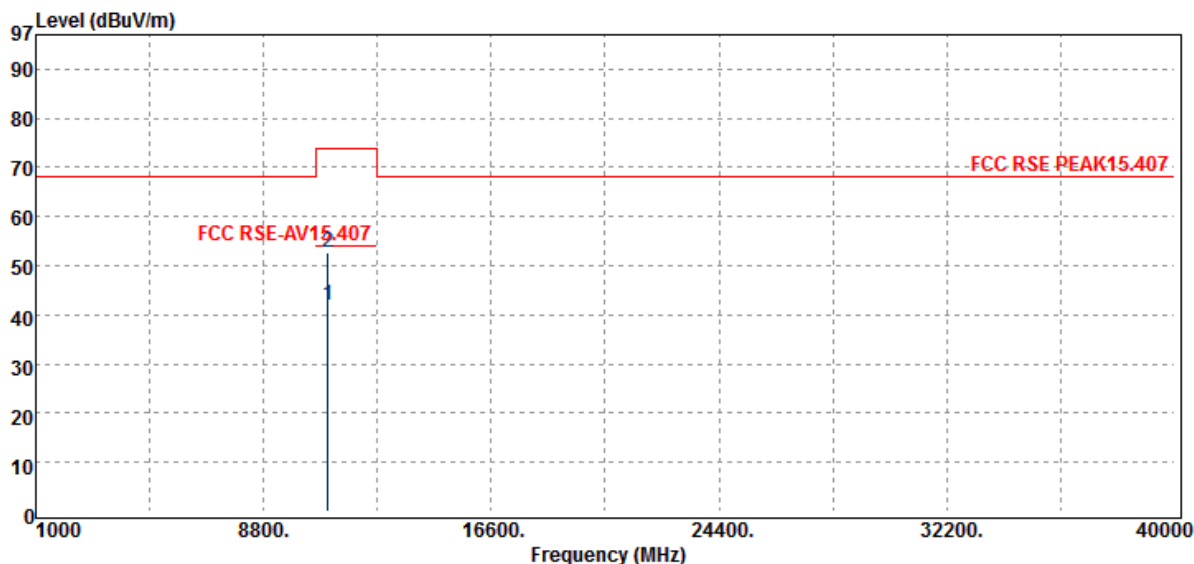
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Operation Band	:802.11n20B3	Test Date	:2017-07-10
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11000.00	H	Average	21.80	20.16	41.96	54.00	-12.04
11000.00	H	Peak	32.57	20.16	52.73	74.00	-21.27

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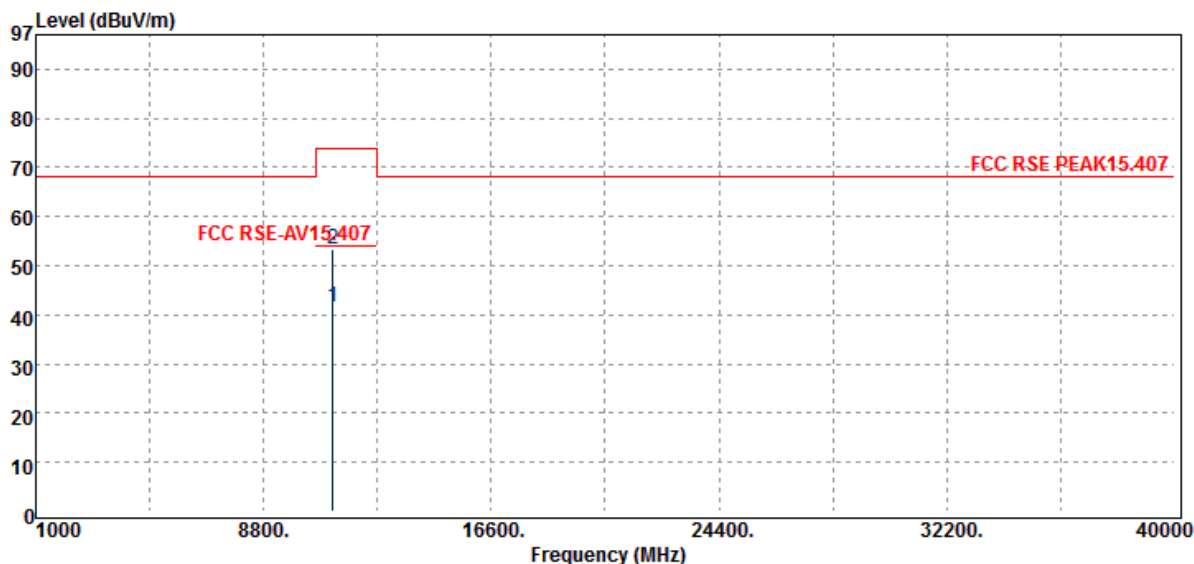
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Operation Band	:802.11n20B3	Test Date	:2017-07-10
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11160.00	H	Average	21.20	20.44	41.64	54.00	-12.36
11160.00	H	Peak	32.82	20.44	53.26	74.00	-20.74

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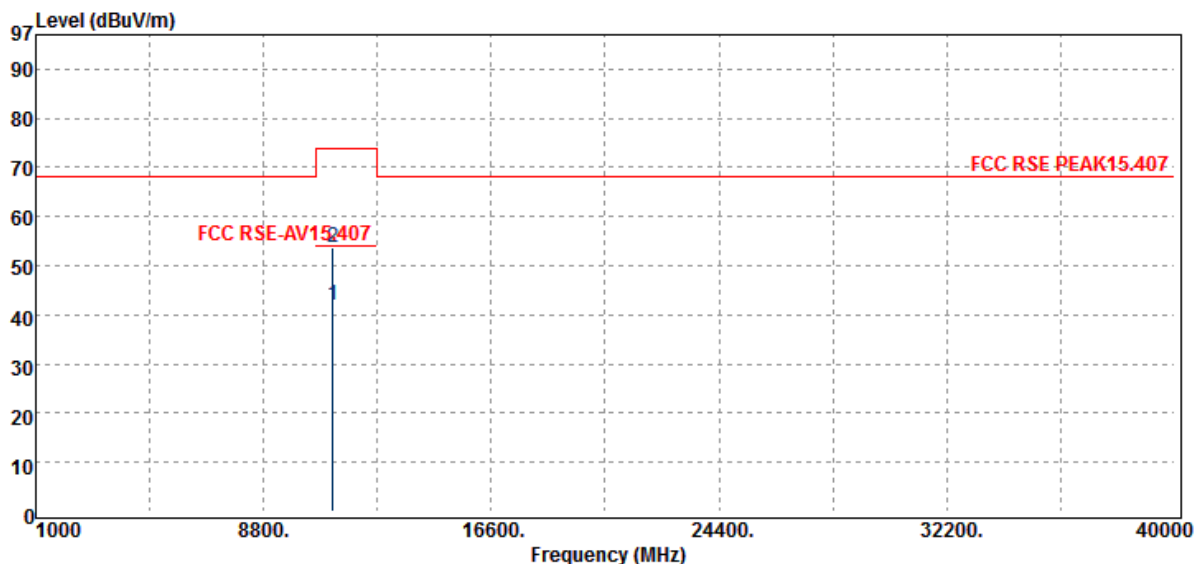
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Operation Band	:802.11n20B3	Test Date	:2017-07-10
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11160.00	H	Average	21.39	20.44	41.83	54.00	-12.17
11160.00	H	Peak	33.21	20.44	53.65	74.00	-20.35

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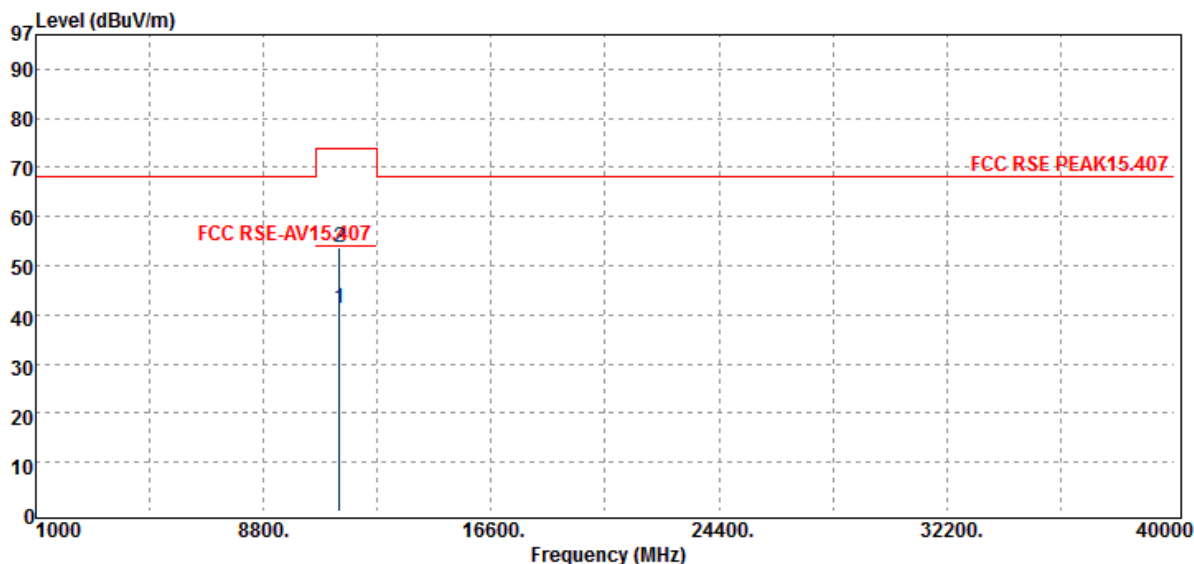
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Operation Band	:802.11n20B3	Test Date	:2017-07-10
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11400.00	H	Average	20.87	20.56	41.43	54.00	-12.57
11400.00	H	Peak	32.98	20.56	53.54	74.00	-20.46

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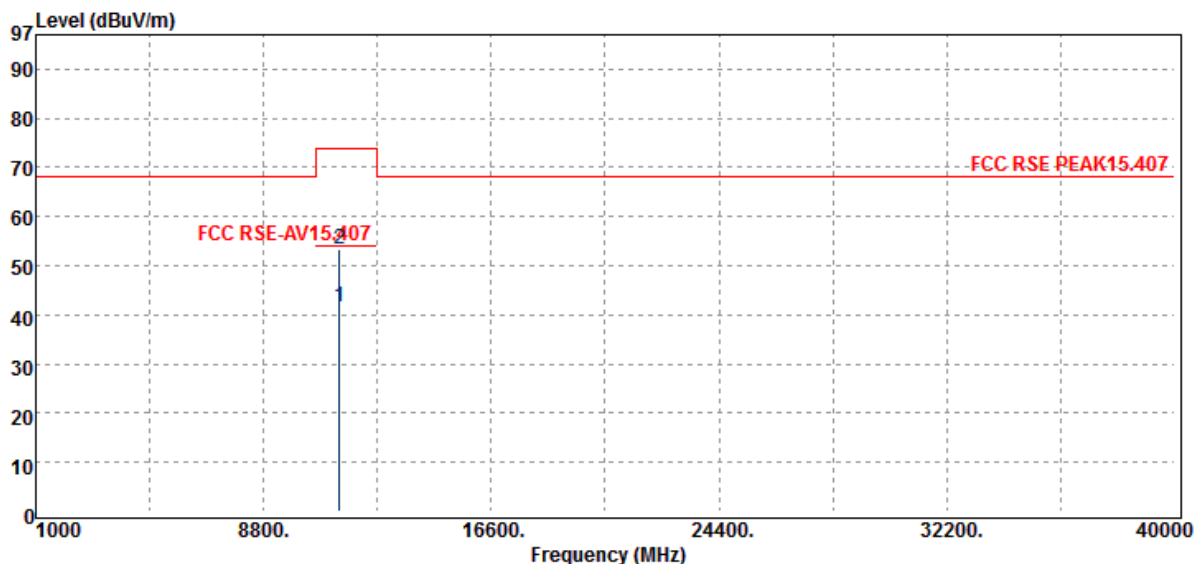
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Operation Band :802.11n20B3
Fundamental Frequency :5700 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2017-07-10
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11400.00	H	Average	20.96	20.56	41.52	54.00	-12.48
11400.00	H	Peak	32.77	20.56	53.33	74.00	-20.67

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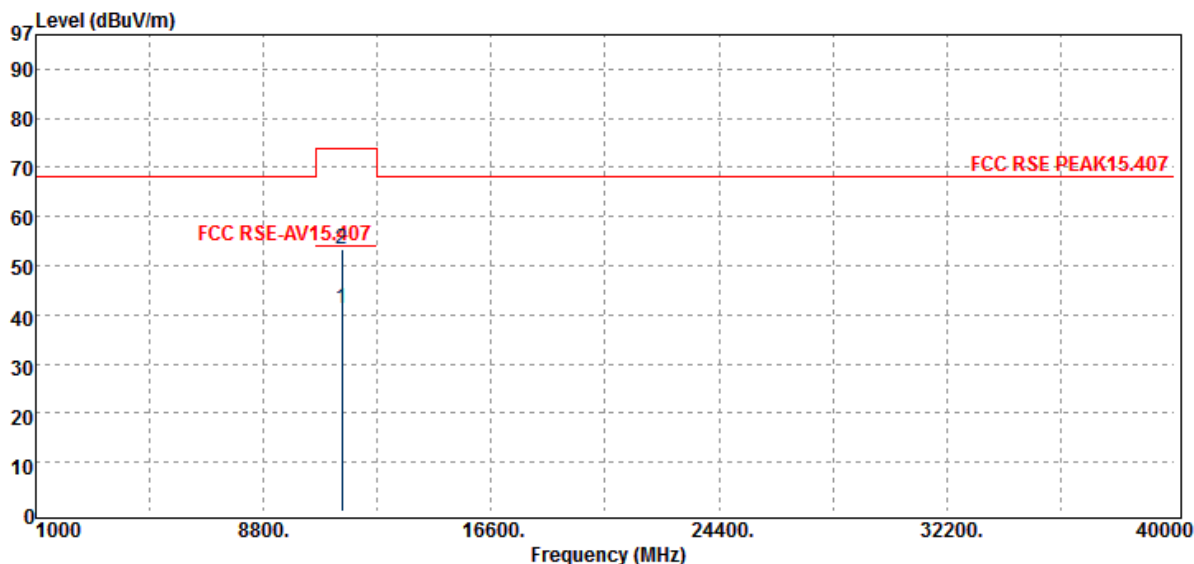
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Operation Band :802.11n20B4
 Fundamental Frequency :5745 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11490.00	H	Average	20.98	20.42	41.40	54.00	-12.60
11490.00	H	Peak	32.81	20.42	53.23	74.00	-20.77

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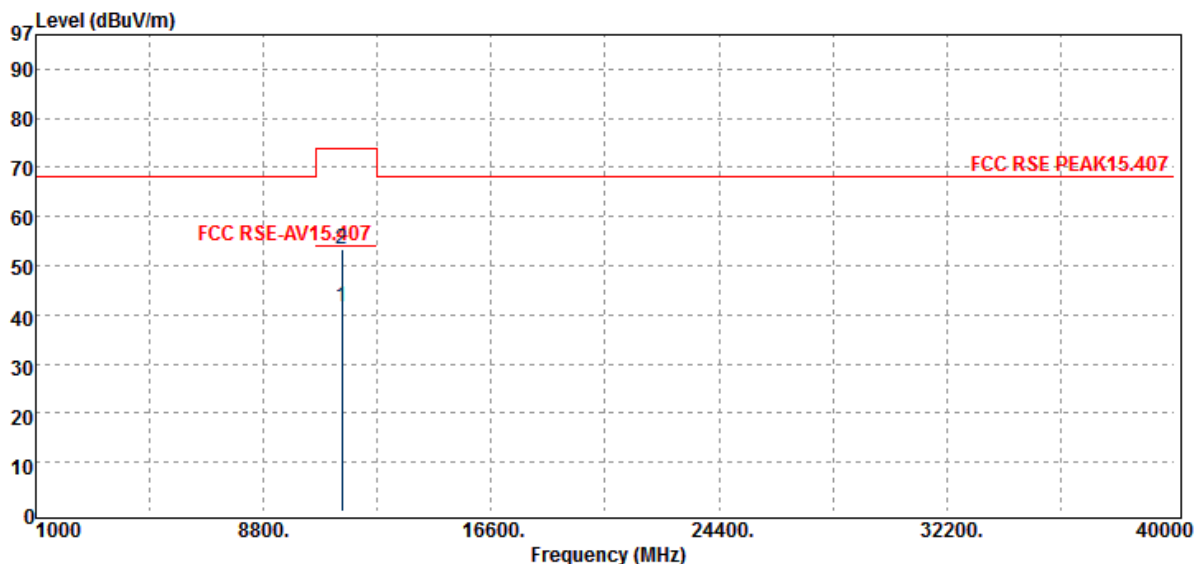
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Operation Band :802.11n20B4
 Fundamental Frequency :5745 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11490.00	H	Average	21.08	20.42	41.50	54.00	-12.50
11490.00	H	Peak	32.96	20.42	53.38	74.00	-20.62

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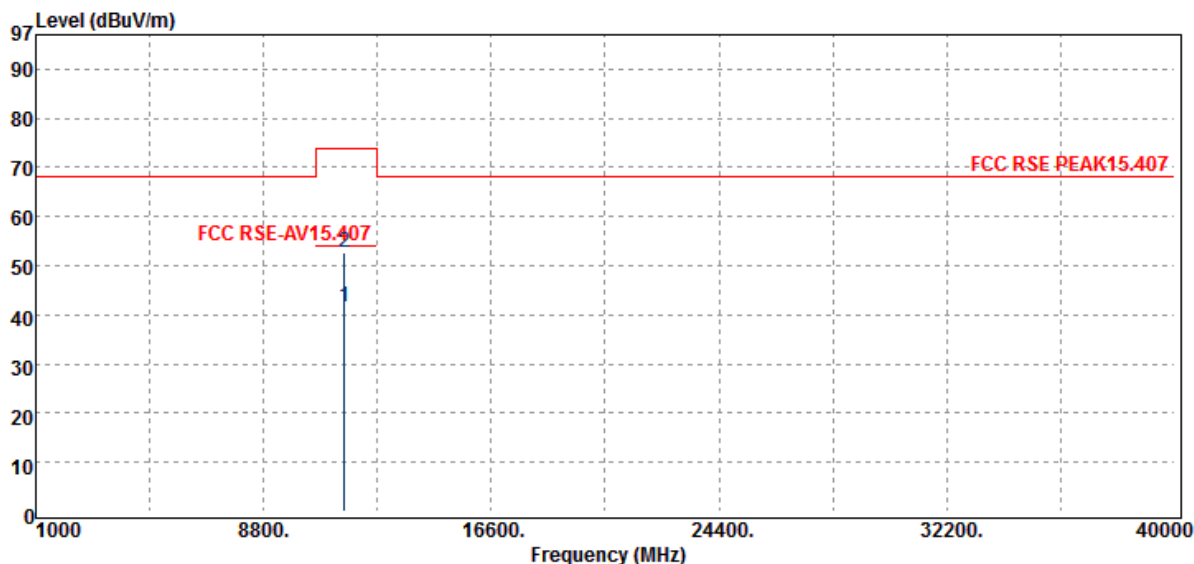
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Member of SGS Group

Operation Band :802.11n20B4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2017-07-10
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11570.00	H	Average	20.92	20.58	41.50	54.00	-12.50
11570.00	H	Peak	32.12	20.58	52.70	74.00	-21.30

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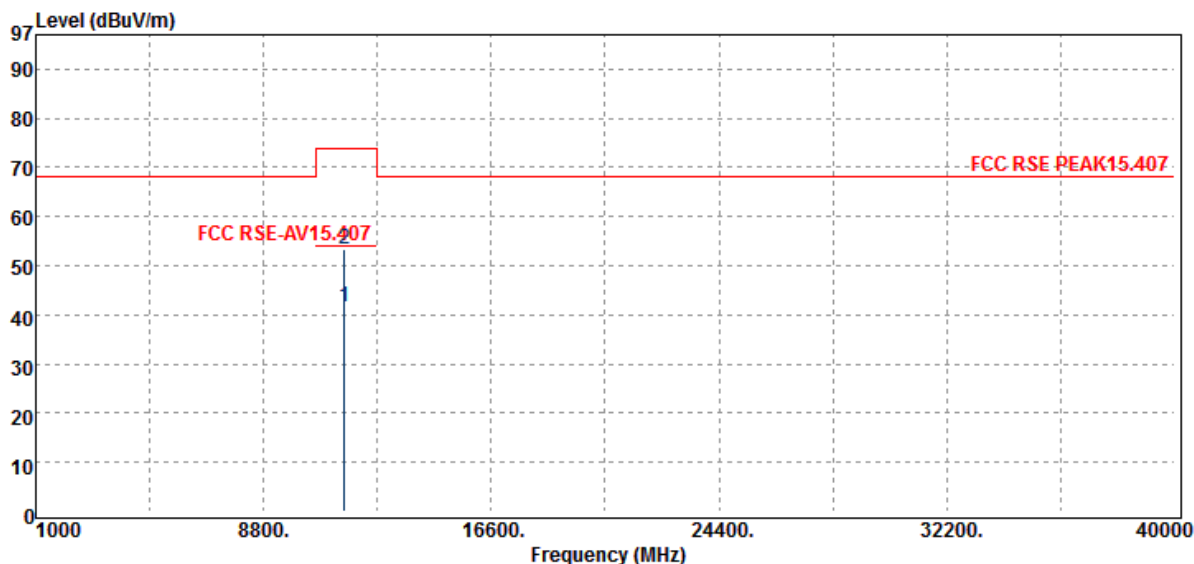
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2017-07-10
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11570.00	H	Average	21.14	20.58	41.72	54.00	-12.28
11570.00	H	Peak	32.95	20.58	53.53	74.00	-20.47

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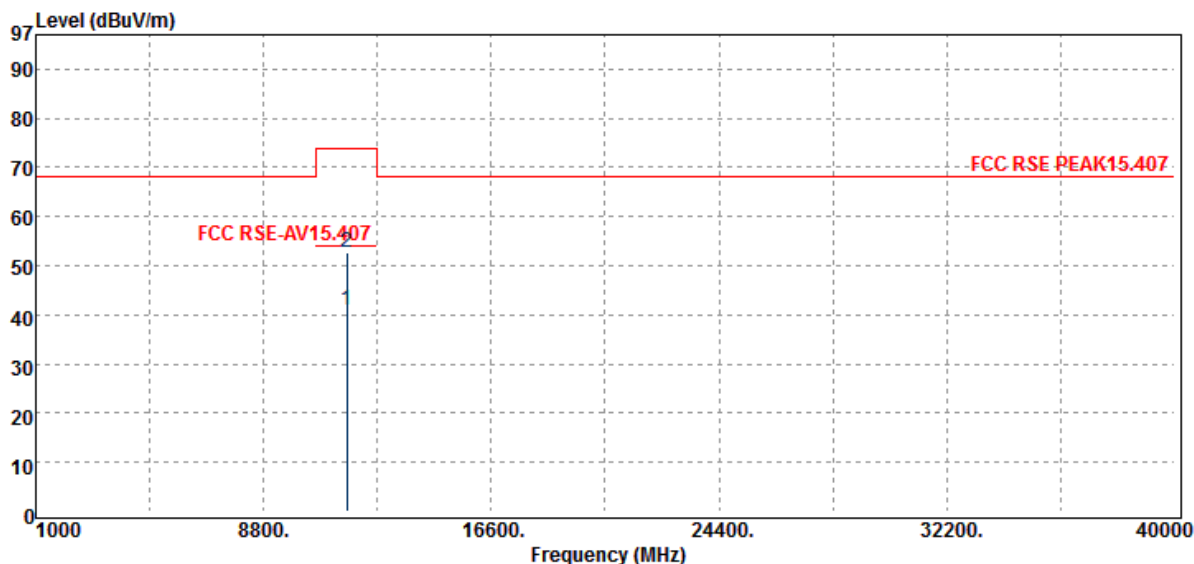
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B4
 Fundamental Frequency :5825 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11650.00	H	Average	20.62	20.43	41.05	54.00	-12.95
11650.00	H	Peak	32.42	20.43	52.85	74.00	-21.15

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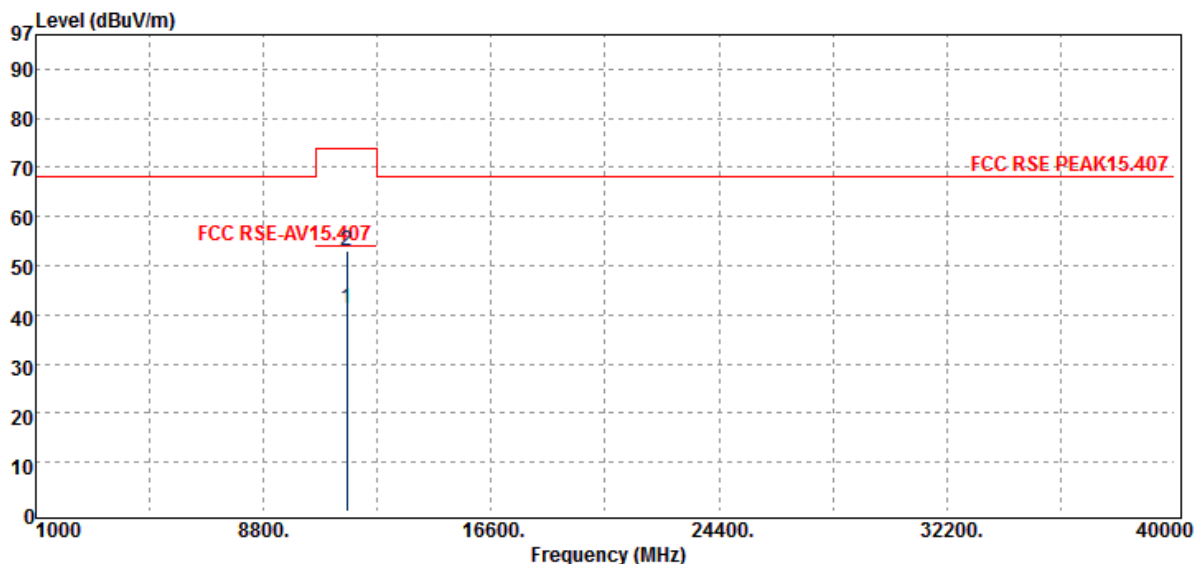
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Operation Band :802.11n20B4
 Fundamental Frequency :5825 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11650.00	H	Average	20.74	20.43	41.17	54.00	-12.83
11650.00	H	Peak	32.56	20.43	52.99	74.00	-21.01

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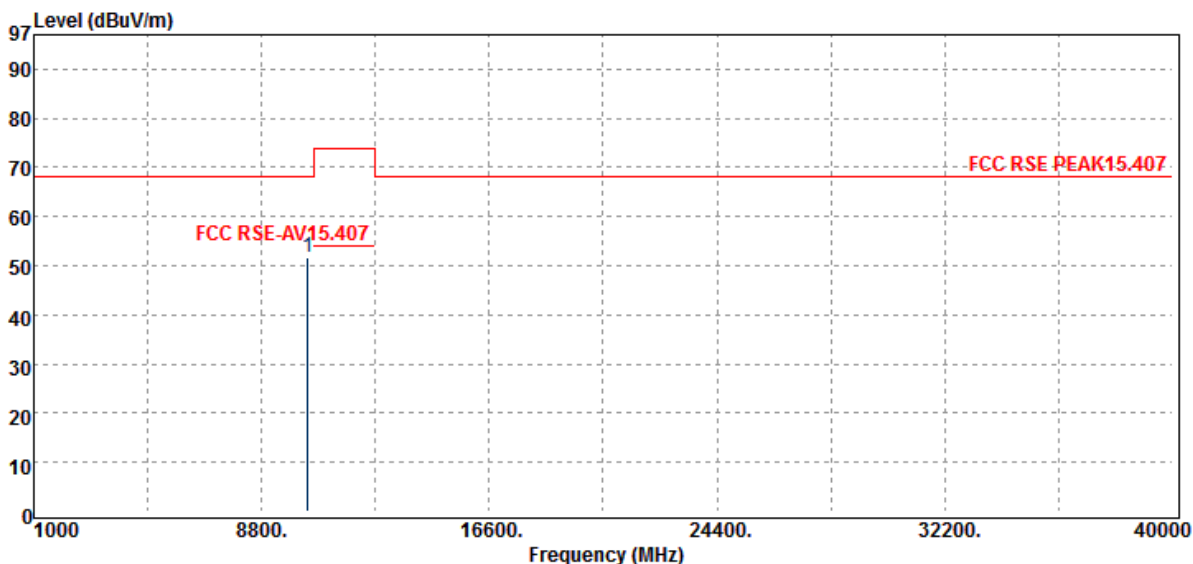
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Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10380.00	H	Peak	33.59	18.12	51.71	68.30	-16.59

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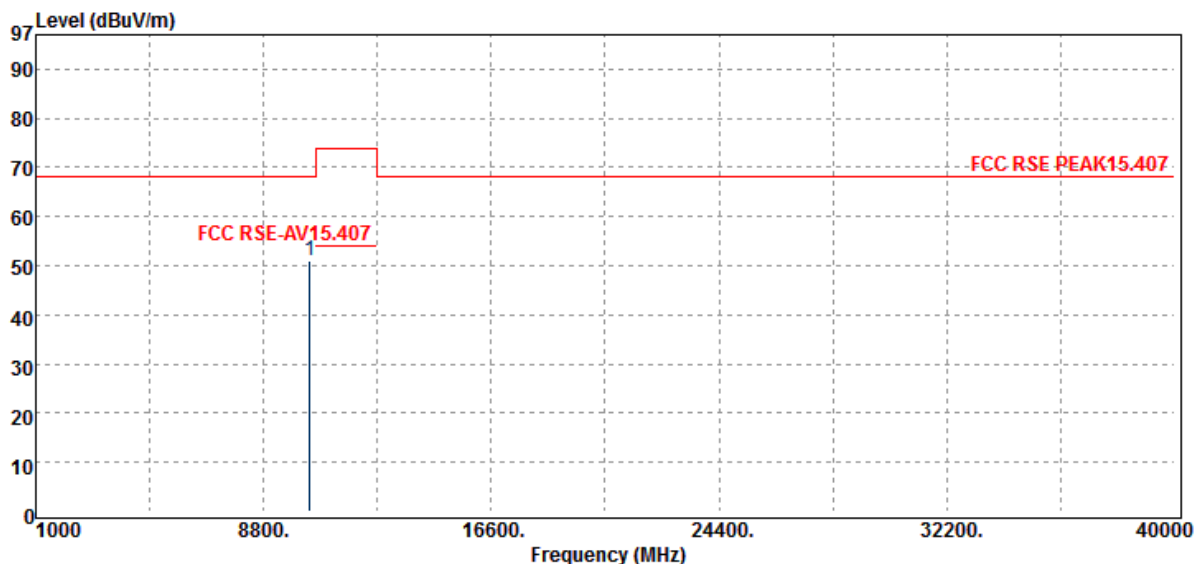
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Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10380.00	H	Peak	32.79	18.12	50.91	68.30	-17.39

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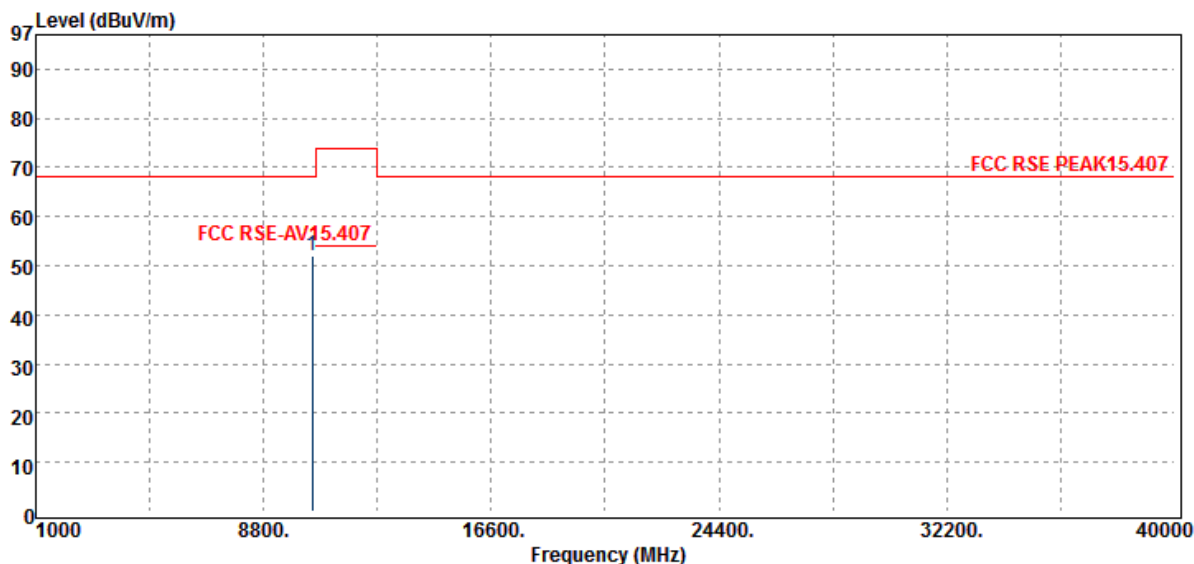
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Operation Band :802.11n40B1
 Fundamental Frequency :5230 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10460.00	H	Peak	33.34	18.55	51.89	68.30	-16.41

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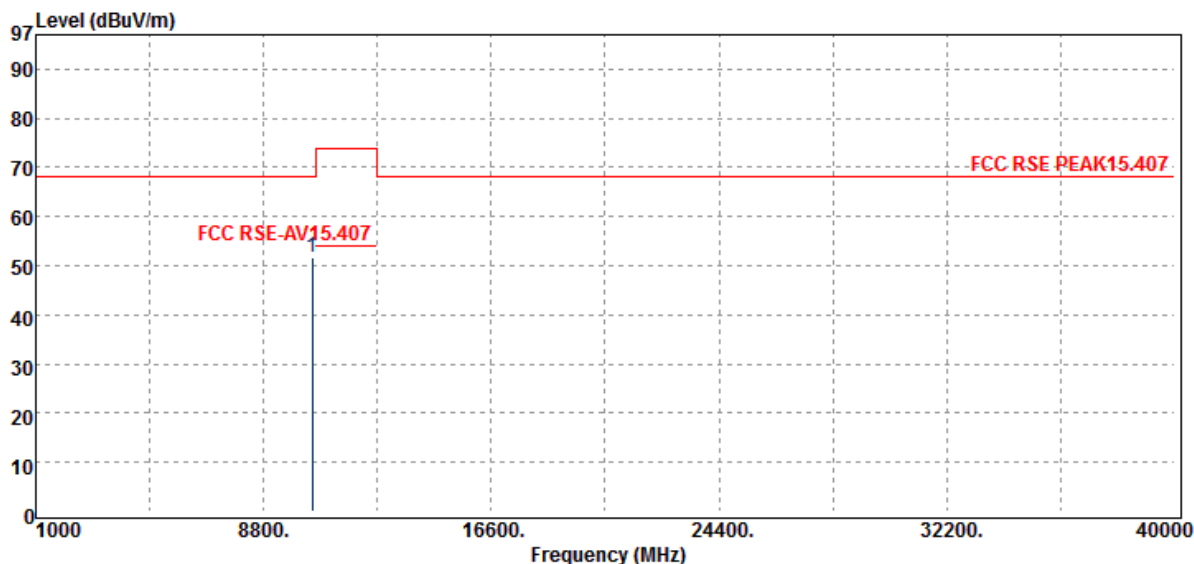
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Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10460.00	H	Peak	33.19	18.55	51.74	68.30	-16.56

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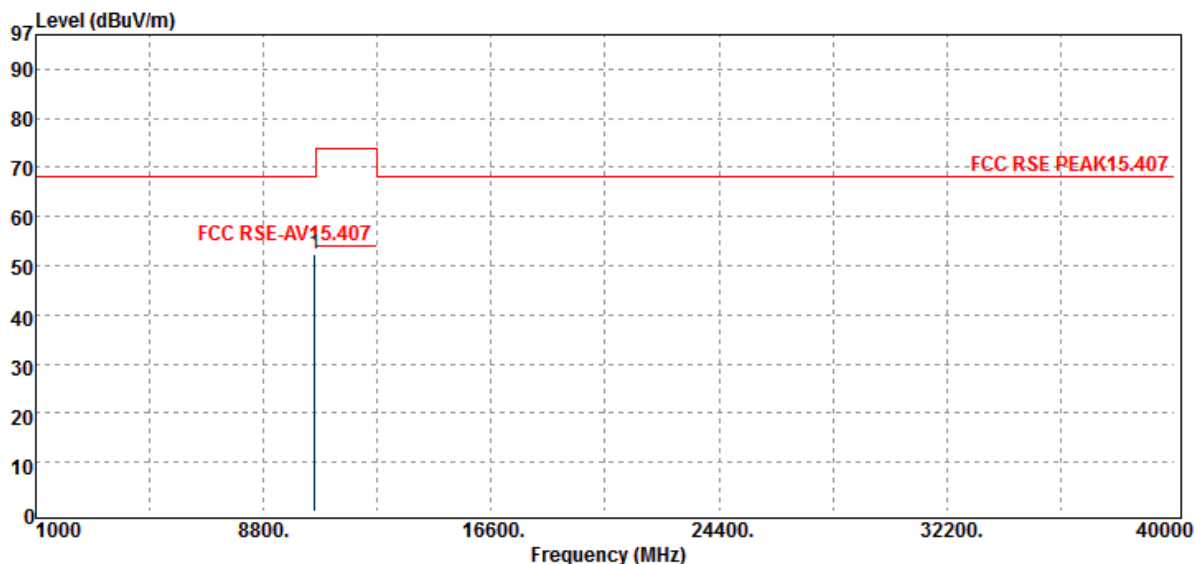
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Member of SGS Group

Operation Band :802.11n40B2
 Fundamental Frequency :5270 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10540.00	H	Peak	33.22	19.17	52.39	68.30	-15.91

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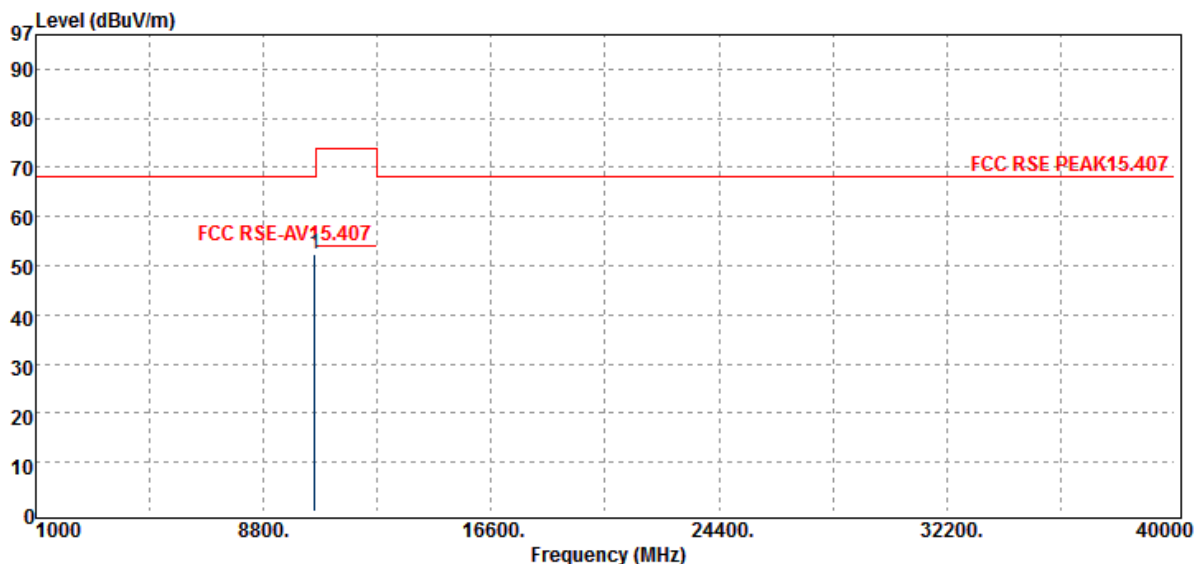
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Operation Band :802.11n40B2
 Fundamental Frequency :5270 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10540.00	H	Peak	33.04	19.17	52.21	68.30	-16.09

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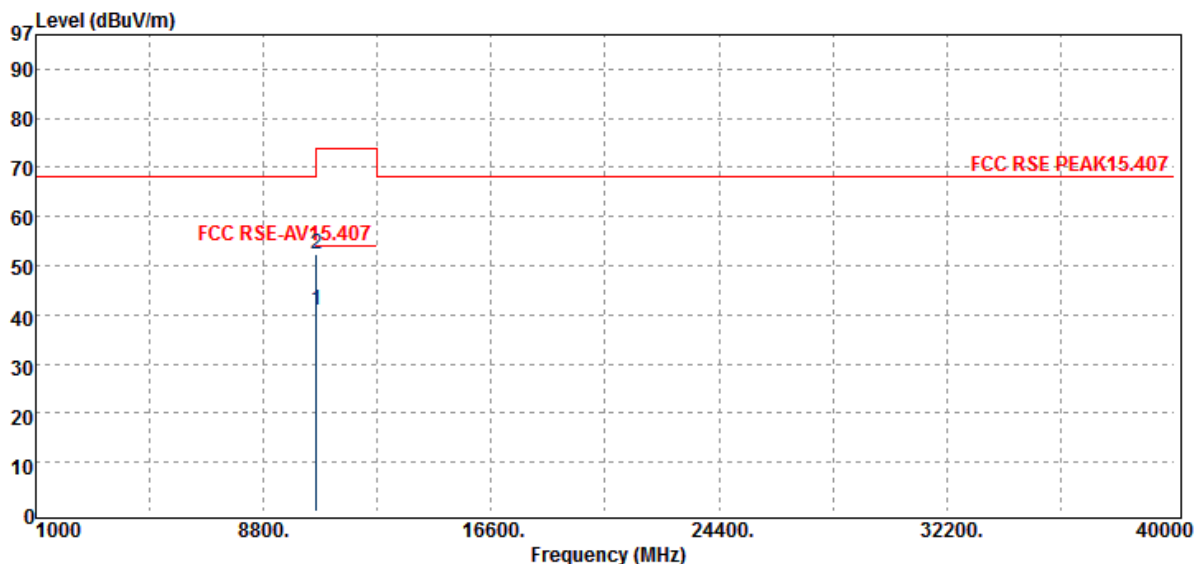
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Operation Band :802.11n40B2
Fundamental Frequency :5310 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2017-07-10
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10620.00	H	Average	21.73	19.11	40.84	54.00	-13.16
10620.00	H	Peak	33.18	19.11	52.29	74.00	-21.71

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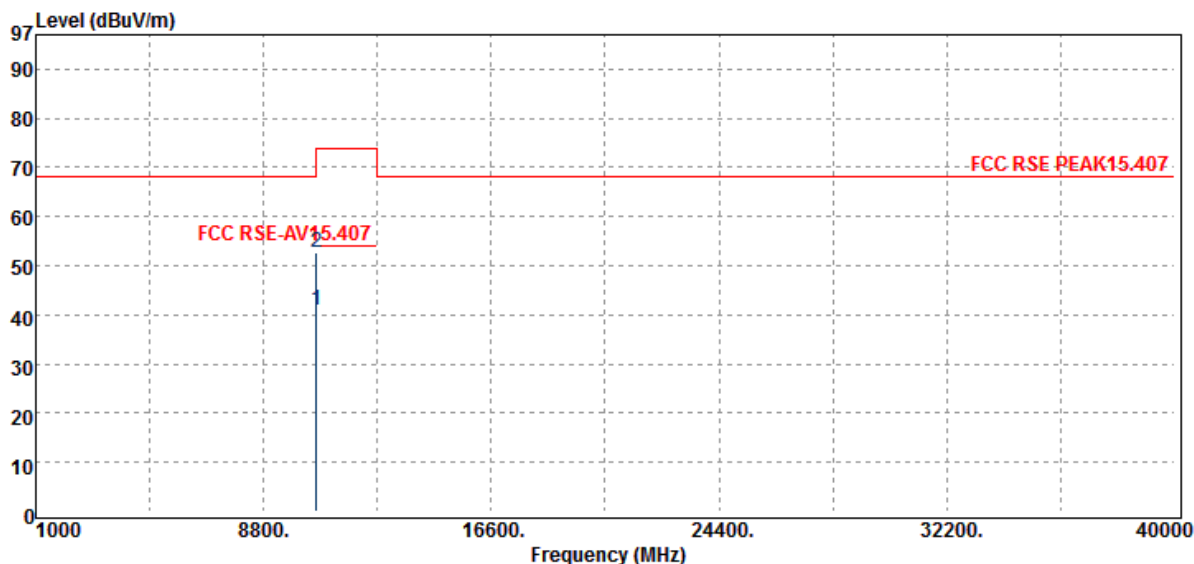
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Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10620.00	H	Average	21.88	19.11	40.99	54.00	-13.01
10620.00	H	Peak	33.46	19.11	52.57	74.00	-21.43

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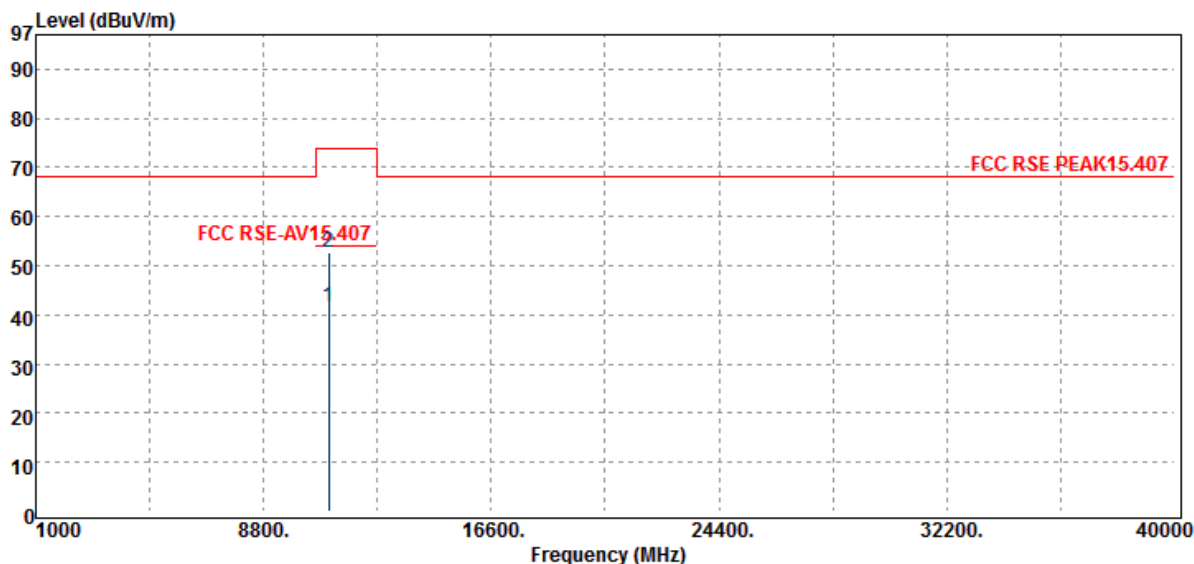
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www.tw.sgs.com

Member of SGS Group

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

Test Date :2017-07-10
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11020.00	H	Average	21.54	20.16	41.70	54.00	-12.30
11020.00	H	Peak	32.59	20.16	52.75	74.00	-21.25

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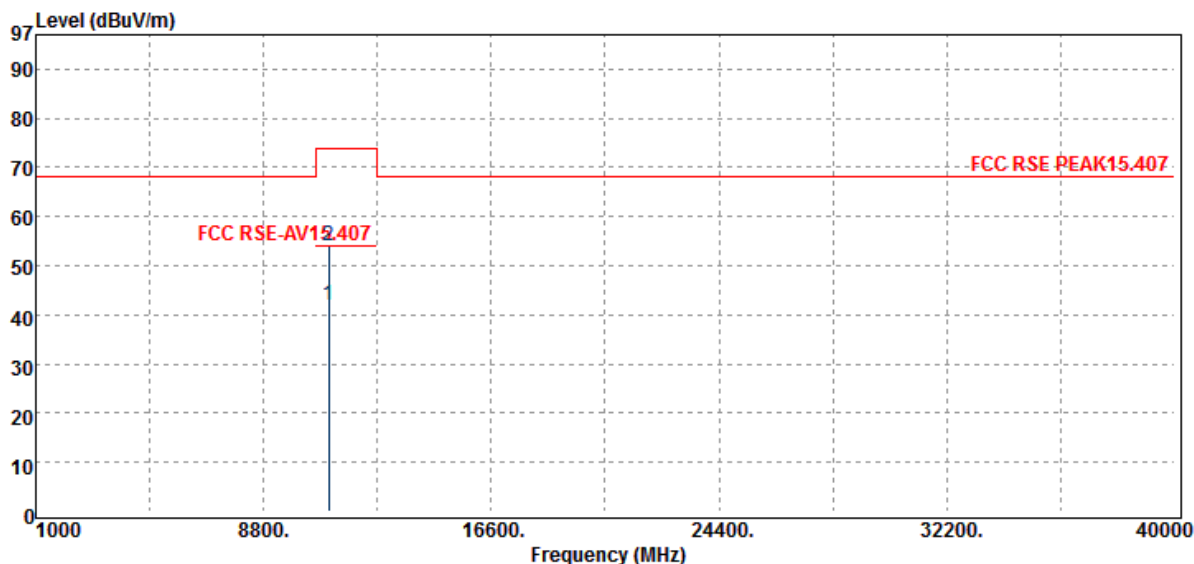
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Operation Band	:802.11n40B3	Test Date	:2017-07-10
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11020.00	H	Average	21.67	20.16	41.83	54.00	-12.17
11020.00	H	Peak	34.04	20.16	54.20	74.00	-19.80

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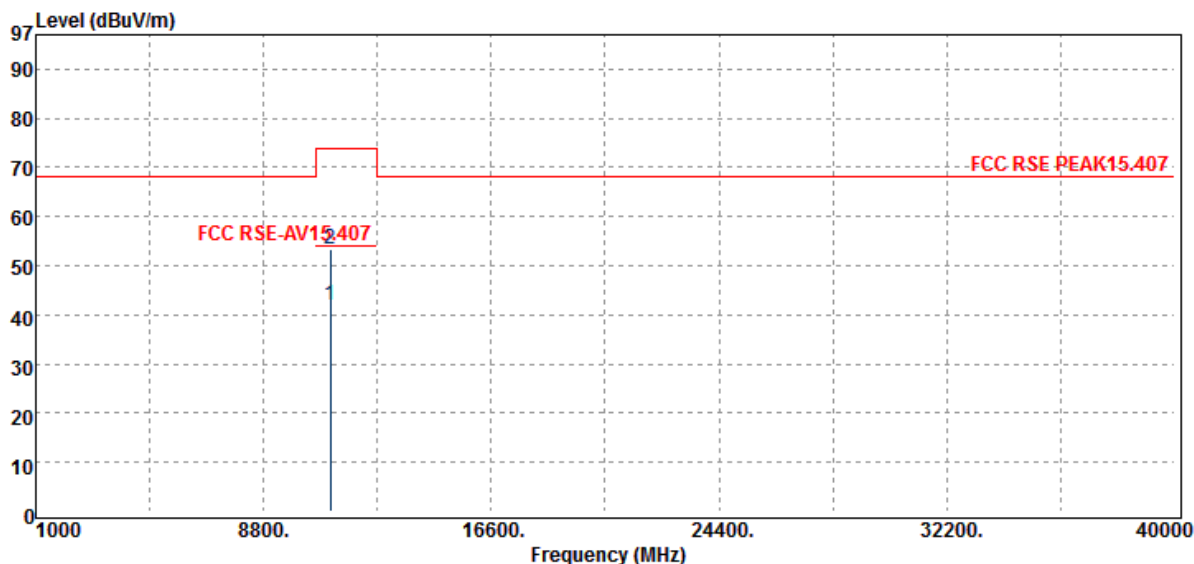
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Operation Band	:802.11n40B3	Test Date	:2017-07-10
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11100.00	H	Average	21.57	20.32	41.89	54.00	-12.11
11100.00	H	Peak	33.13	20.32	53.45	74.00	-20.55

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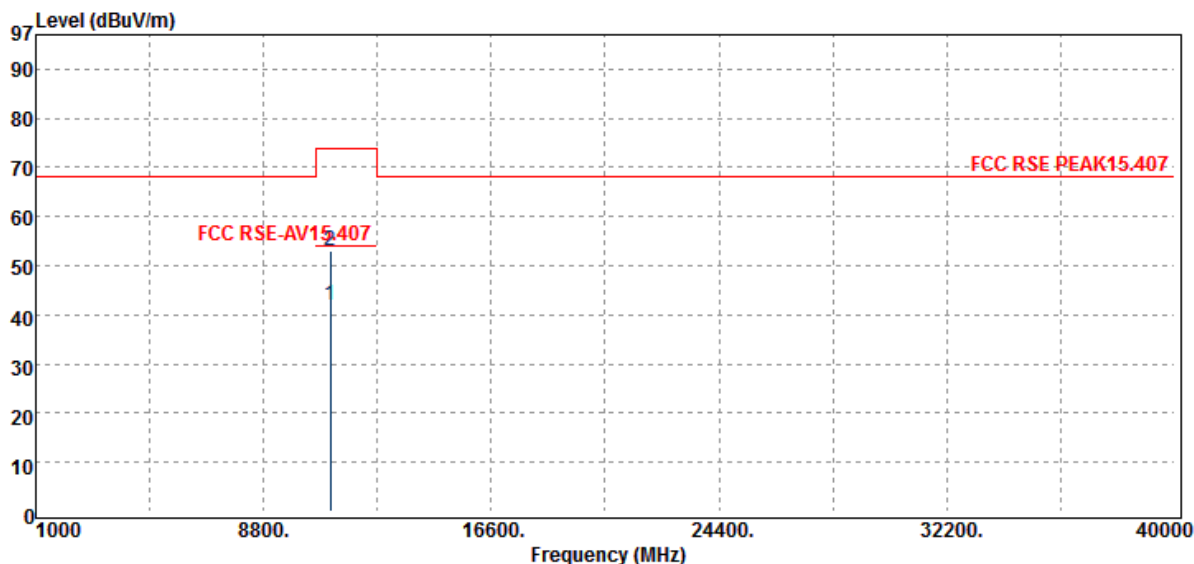
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Operation Band	:802.11n40B3	Test Date	:2017-07-10
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11100.00	H	Average	21.68	20.32	42.00	54.00	-12.00
11100.00	H	Peak	32.82	20.32	53.14	74.00	-20.86

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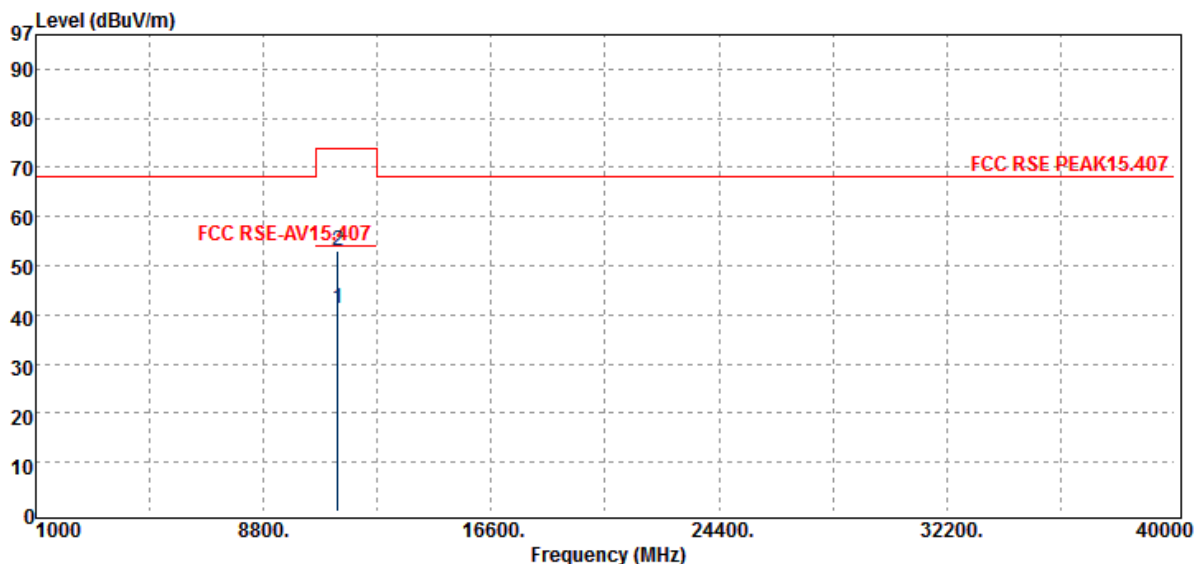
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Member of SGS Group

Operation Band	:802.11n40B3	Test Date	:2017-07-10
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11340.00	H	Average	21.06	20.38	41.44	54.00	-12.56
11340.00	H	Peak	32.63	20.38	53.01	74.00	-20.99

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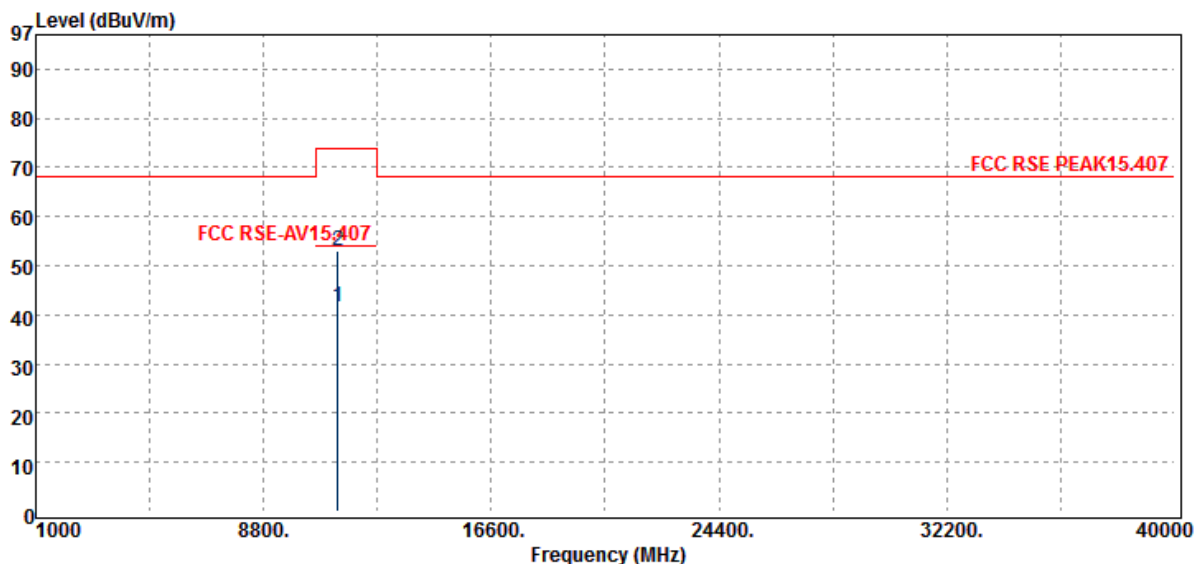
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Operation Band	:802.11n40B3	Test Date	:2017-07-10
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11340.00	H	Average	21.18	20.38	41.56	54.00	-12.44
11340.00	H	Peak	32.60	20.38	52.98	74.00	-21.02

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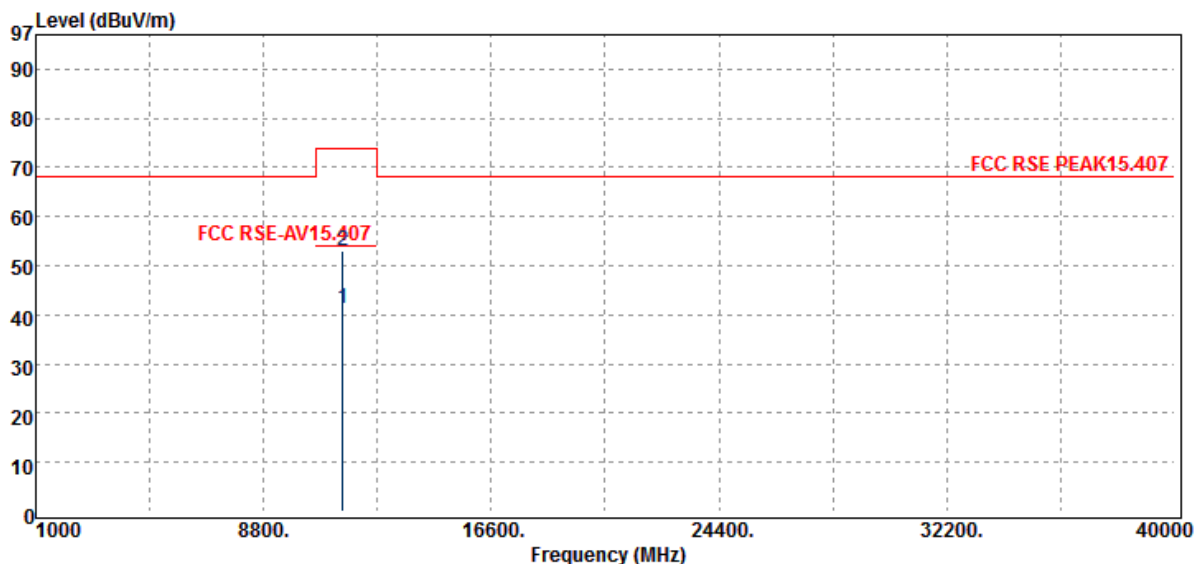
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n40B4
Fundamental Frequency :5755 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2017-07-10
Temp./Humi. :23 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
11510.00	H	Average	20.87	20.38	41.25	54.00	-12.75
11510.00	H	Peak	32.79	20.38	53.17	74.00	-20.83

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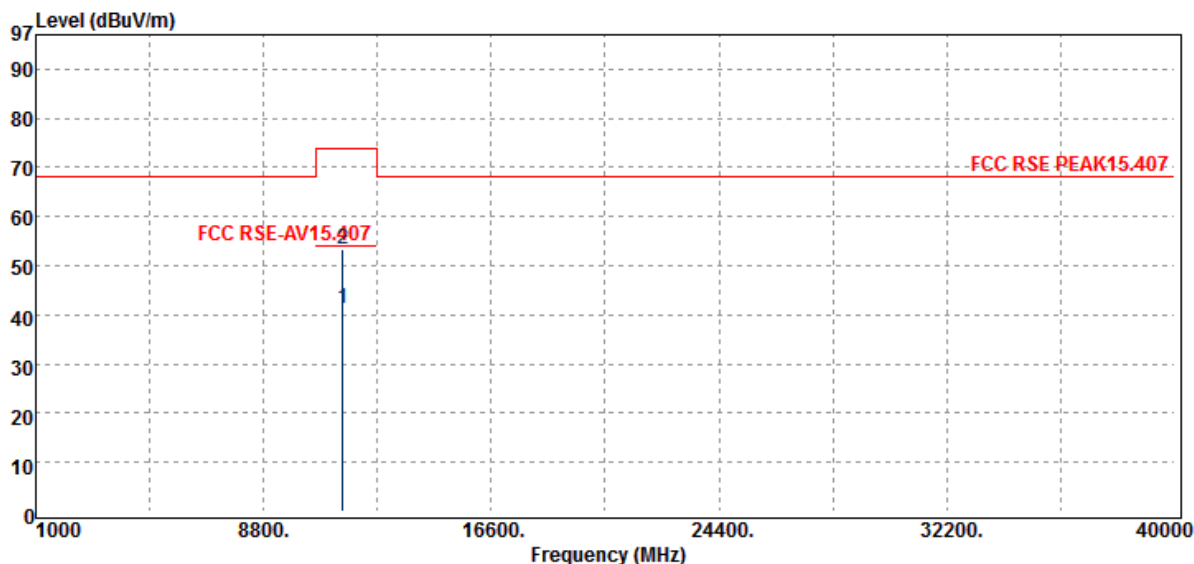
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Member of SGS Group

Operation Band :802.11n40B4
 Fundamental Frequency :5755 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11510.00	H	Average	21.00	20.38	41.38	54.00	-12.62
11510.00	H	Peak	32.99	20.38	53.37	74.00	-20.63

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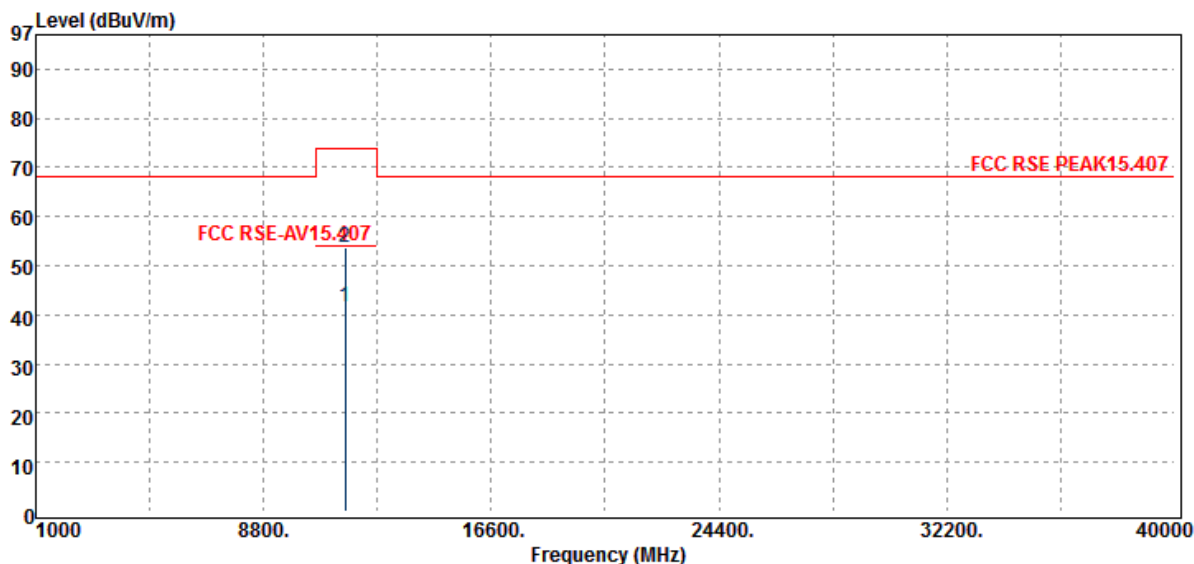
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Operation Band :802.11n40B4
 Fundamental Frequency :5795 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11590.00	H	Average	21.14	20.43	41.57	54.00	-12.43
11590.00	H	Peak	33.19	20.43	53.62	74.00	-20.38

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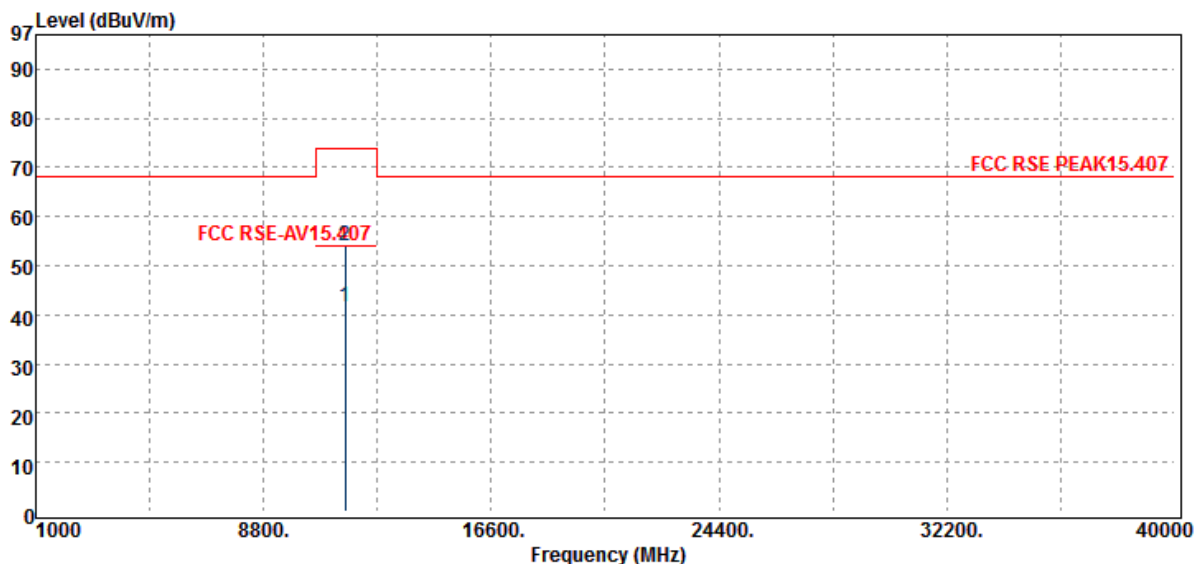
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Operation Band :802.11n40B4
 Fundamental Frequency :5795 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11590.00	H	Average	21.32	20.43	41.75	54.00	-12.25
11590.00	H	Peak	33.54	20.43	53.97	74.00	-20.03

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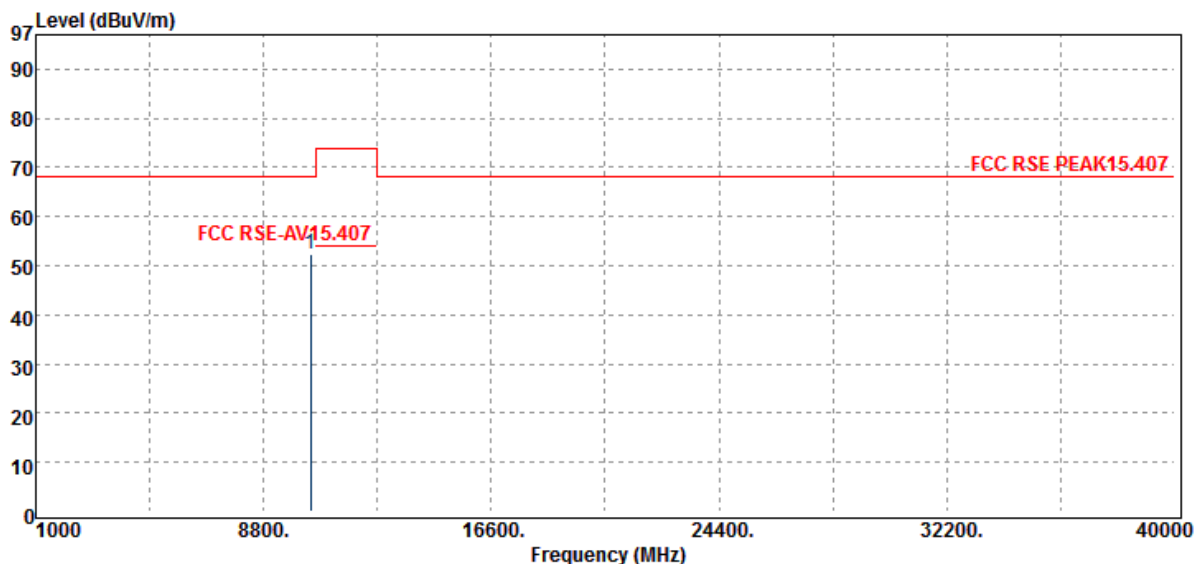
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www.tw.sgs.com

Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10420.00	H	Peak	33.58	18.71	52.29	68.30	-16.01

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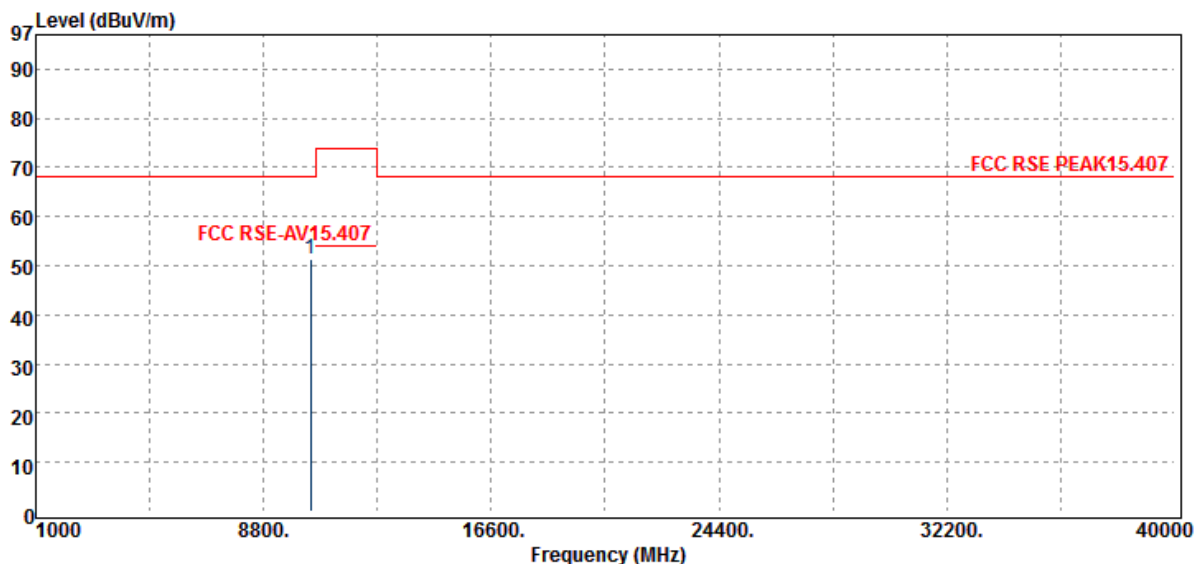
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www.tw.sgs.com

Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
10420.00	H	Peak	32.58	18.71	51.29	68.30	-17.01

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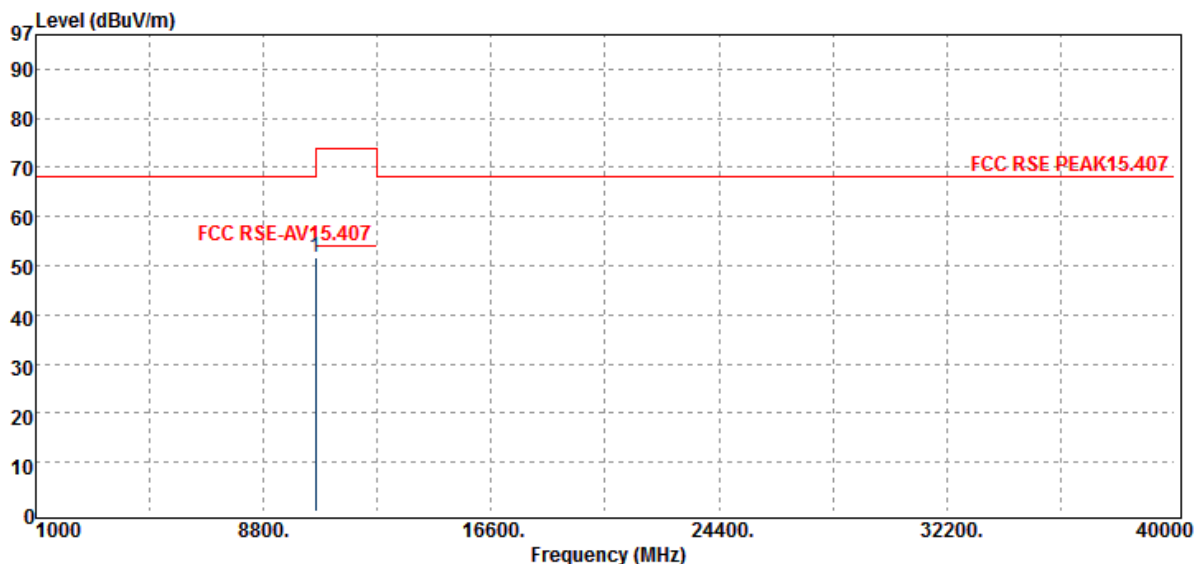
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www.tw.sgs.com

Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10580.00	H	Peak	32.72	18.88	51.60	68.30	-16.70

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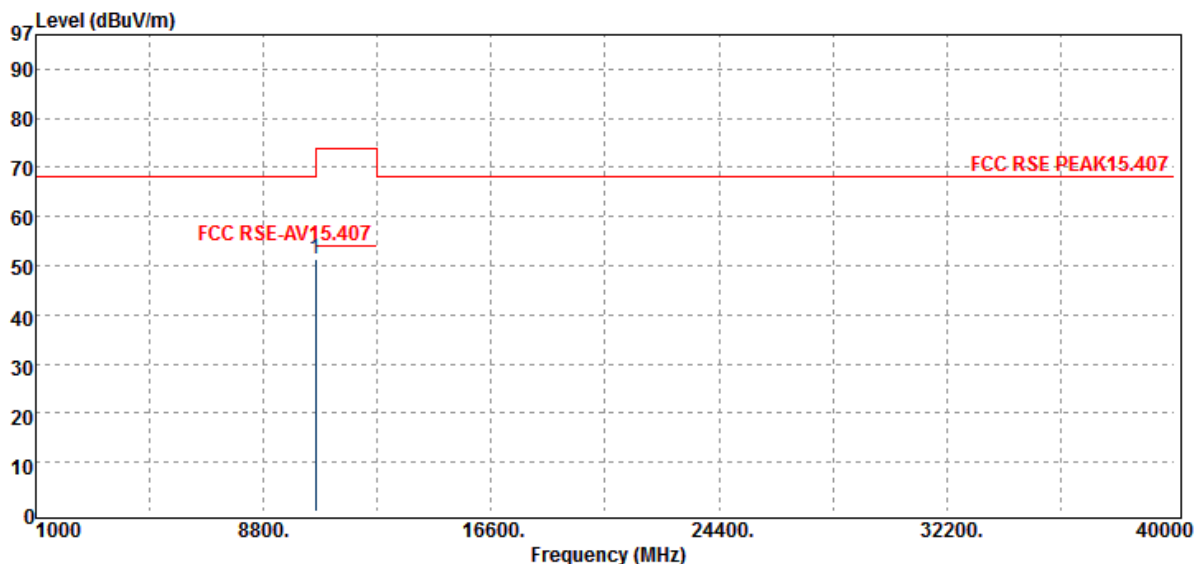
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Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10580.00	H	Peak	32.62	18.88	51.50	68.30	-16.80

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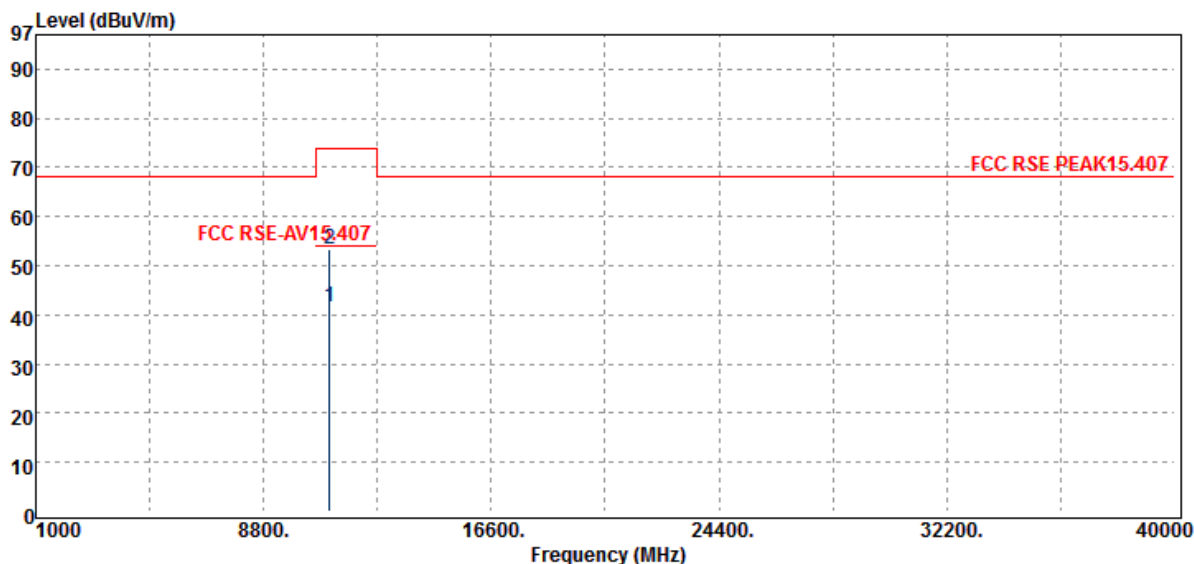
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www.tw.sgs.com

Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11060.00	H	Average	21.32	20.27	41.59	54.00	-12.41
11060.00	H	Peak	32.96	20.27	53.23	74.00	-20.77

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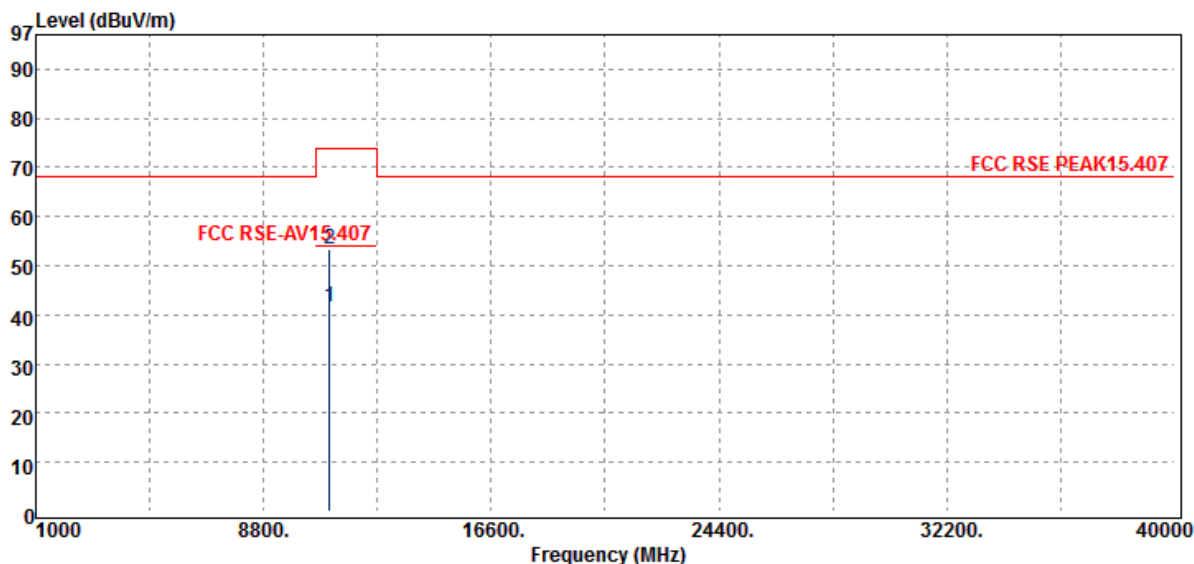
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Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11060.00	H	Average	21.46	20.27	41.73	54.00	-12.27
11060.00	H	Peak	33.09	20.27	53.36	74.00	-20.64

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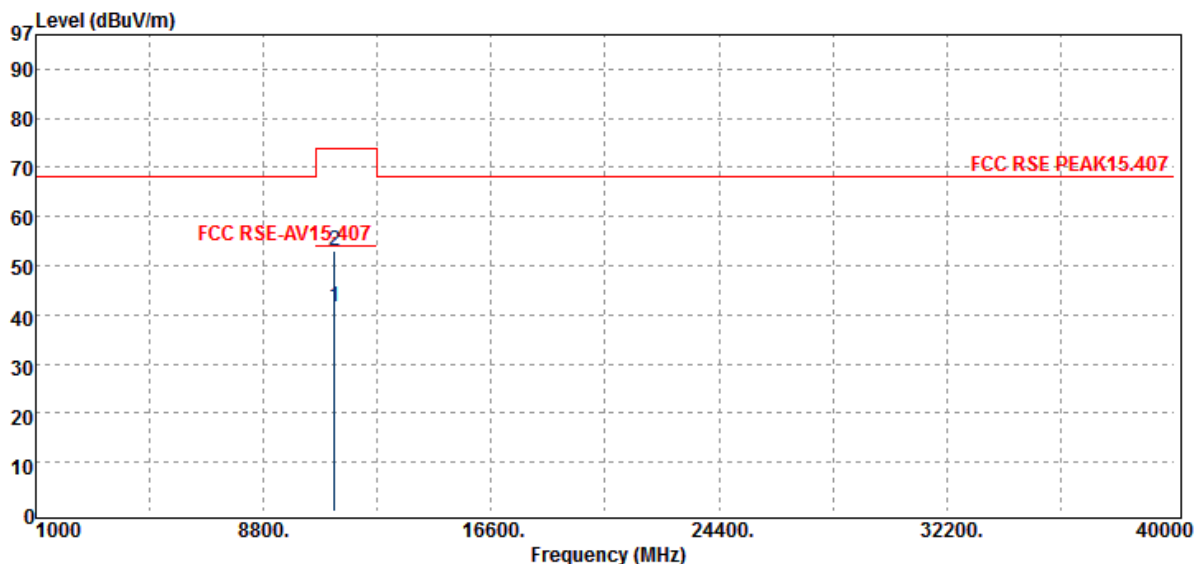
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Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11220.00	H	Average	21.20	20.47	41.67	54.00	-12.33
11220.00	H	Peak	32.51	20.47	52.98	74.00	-21.02

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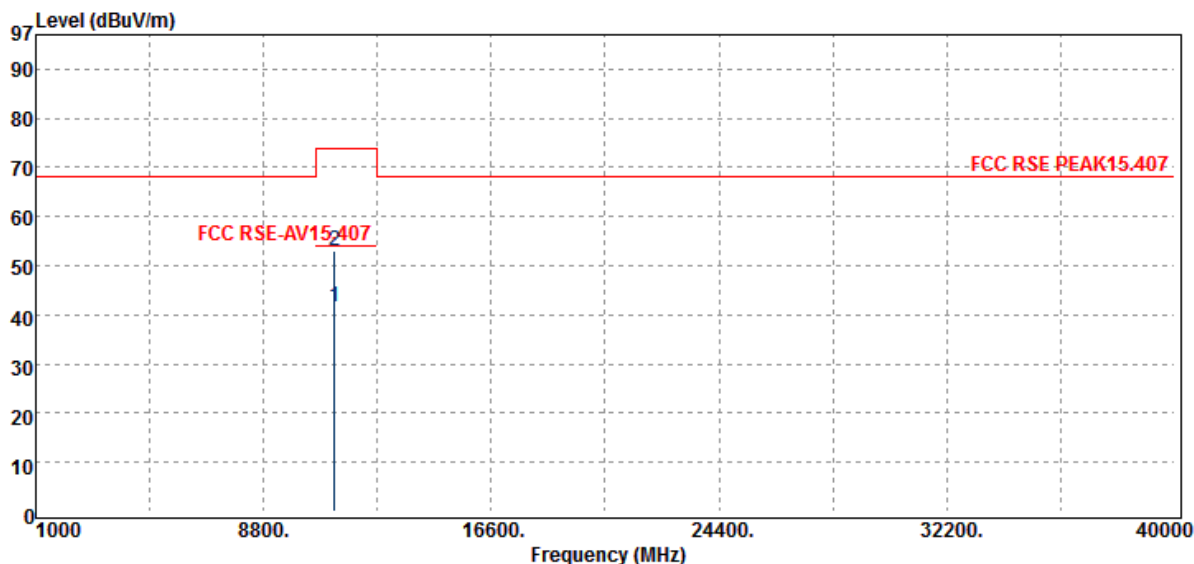
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Member of SGS Group

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

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11220.00	H	Average	21.32	20.47	41.79	54.00	-12.21
11220.00	H	Peak	32.59	20.47	53.06	74.00	-20.94

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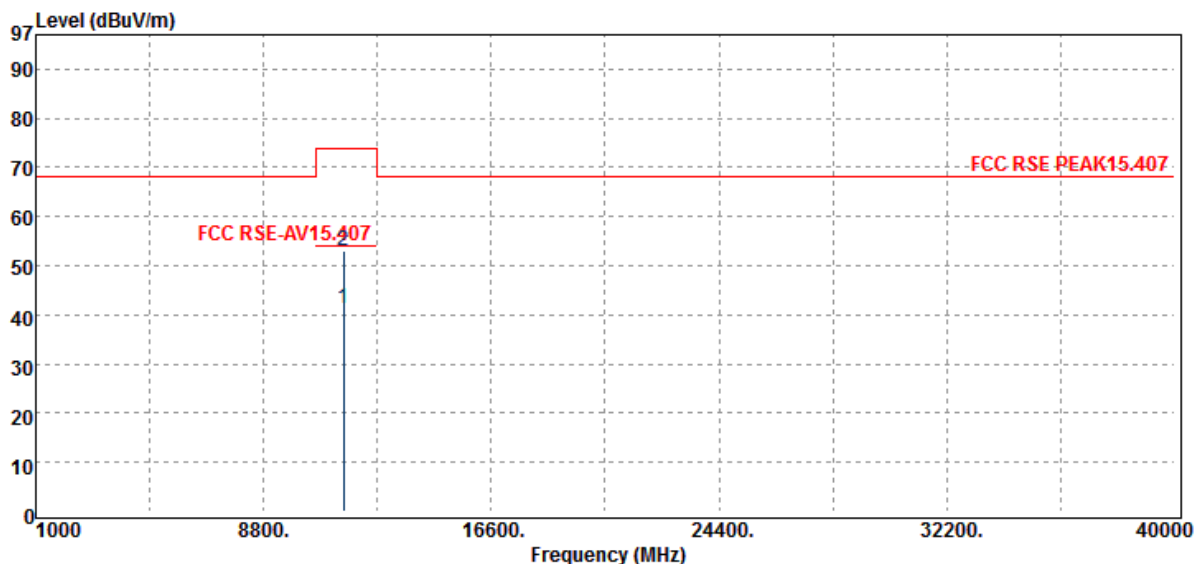
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Member of SGS Group

Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
11550.00	H	Average	20.85	20.51	41.36	54.00	-12.64
11550.00	H	Peak	32.69	20.51	53.20	74.00	-20.80

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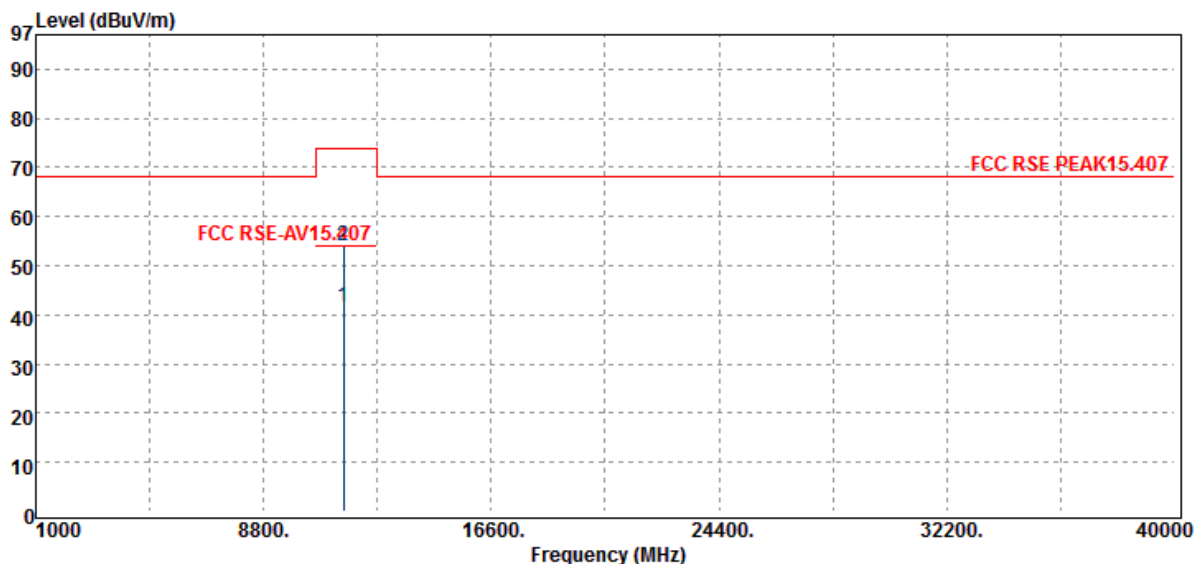
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Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-10
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11550.00	H	Average	20.96	20.51	41.47	54.00	-12.53
11550.00	H	Peak	33.49	20.51	54.00	74.00	-20.00

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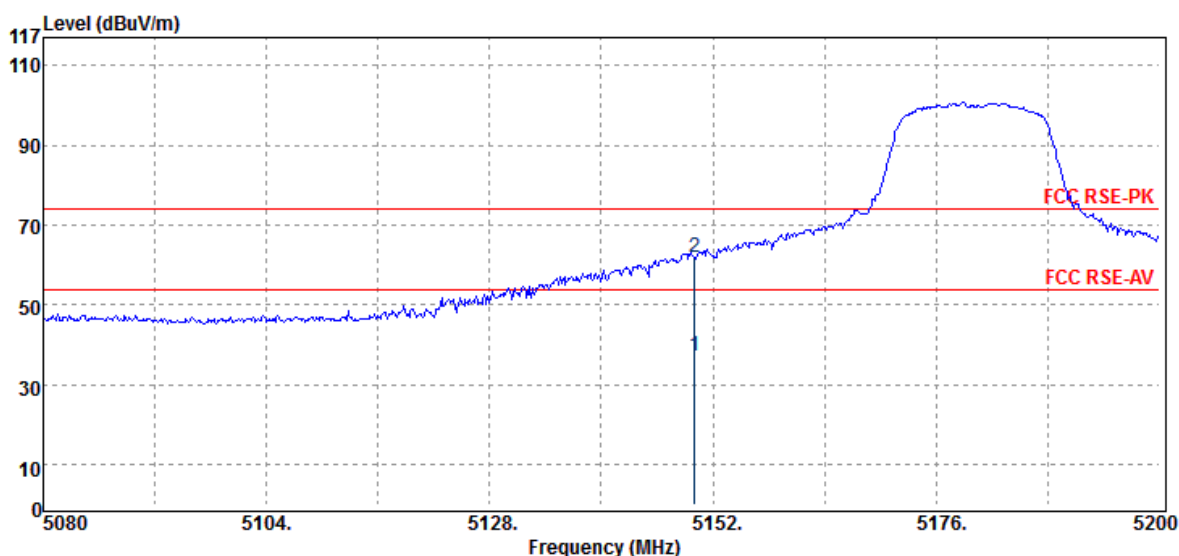
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Band edge falling to restricted band

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

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	31.43	5.88	37.31	54.00	-16.69
5150.00	E	Peak	56.14	5.88	62.02	74.00	-11.98

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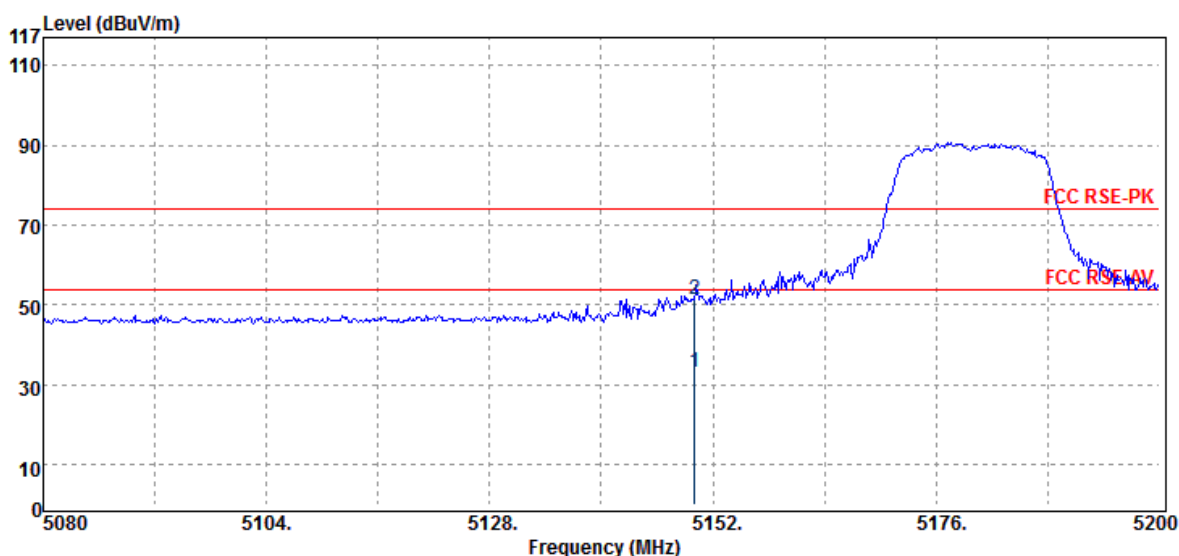
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

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

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	27.39	5.88	33.27	54.00	-20.73
5150.00	E	Peak	45.39	5.88	51.27	74.00	-22.73

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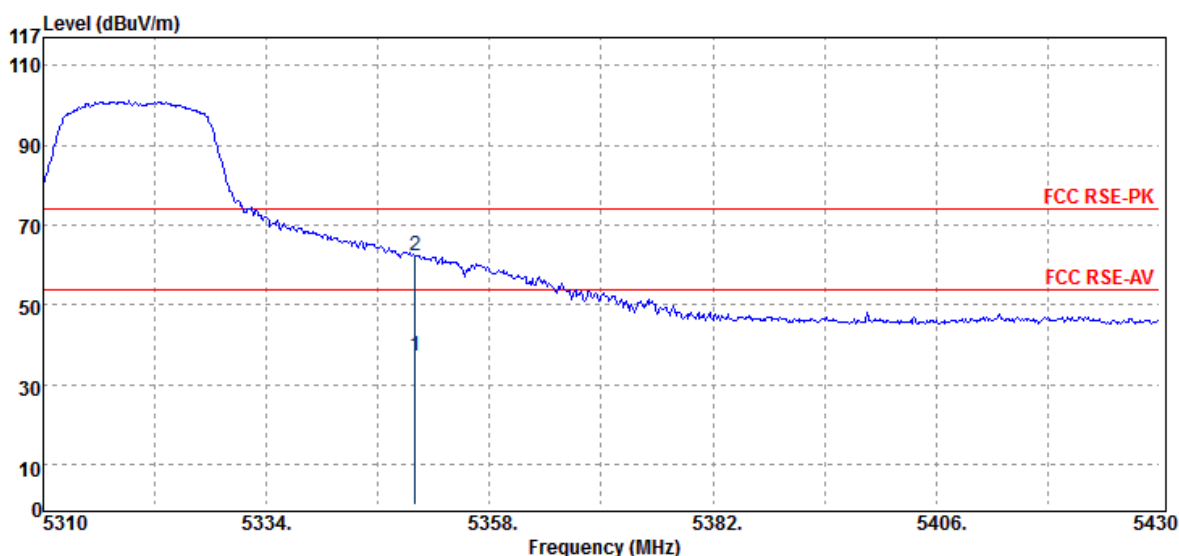
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Member of SGS Group

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

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Average	31.11	6.16	37.27	54.00	-16.73
5350.00	E	Peak	56.10	6.16	62.26	74.00	-11.74

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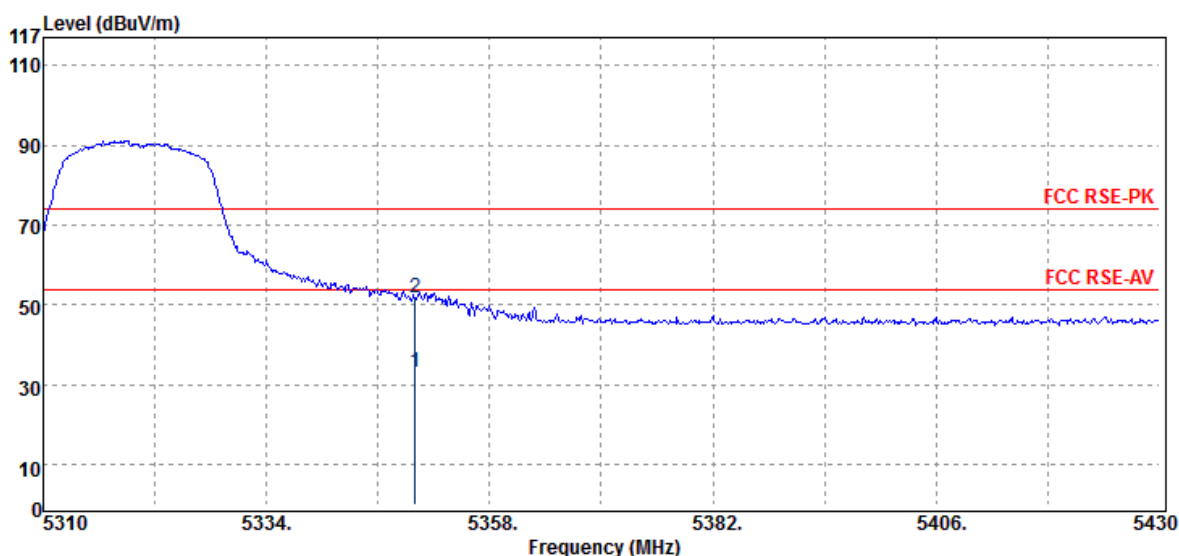
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Average	27.21	6.16	33.37	54.00	-20.63
5350.00	E	Peak	45.58	6.16	51.74	74.00	-22.26

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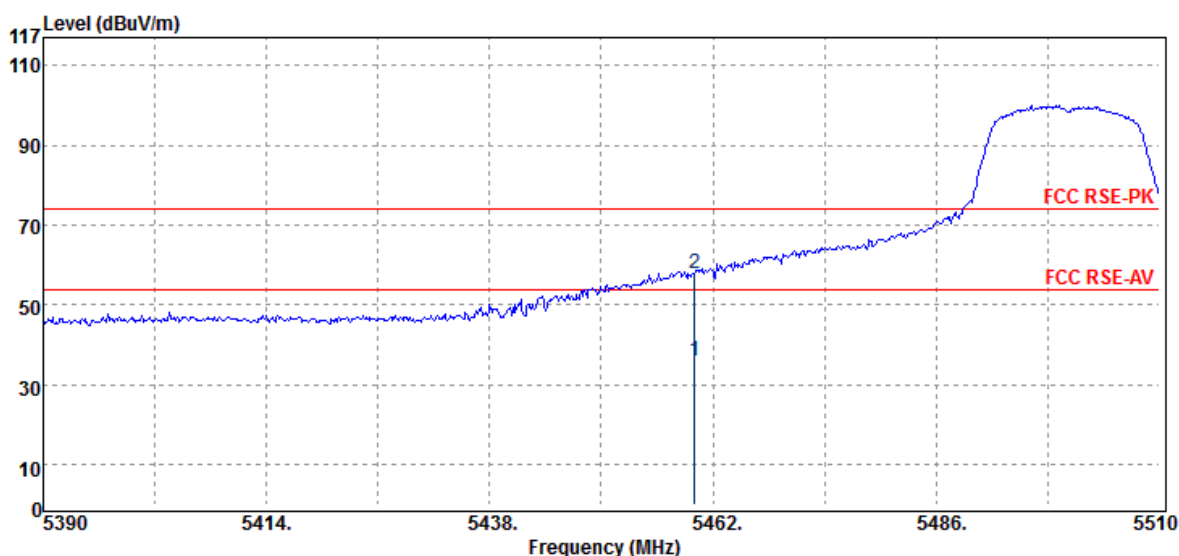
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Member of SGS Group

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

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	29.83	6.23	36.06	54.00	-17.94
5460.00	E	Peak	51.73	6.23	57.96	74.00	-16.04

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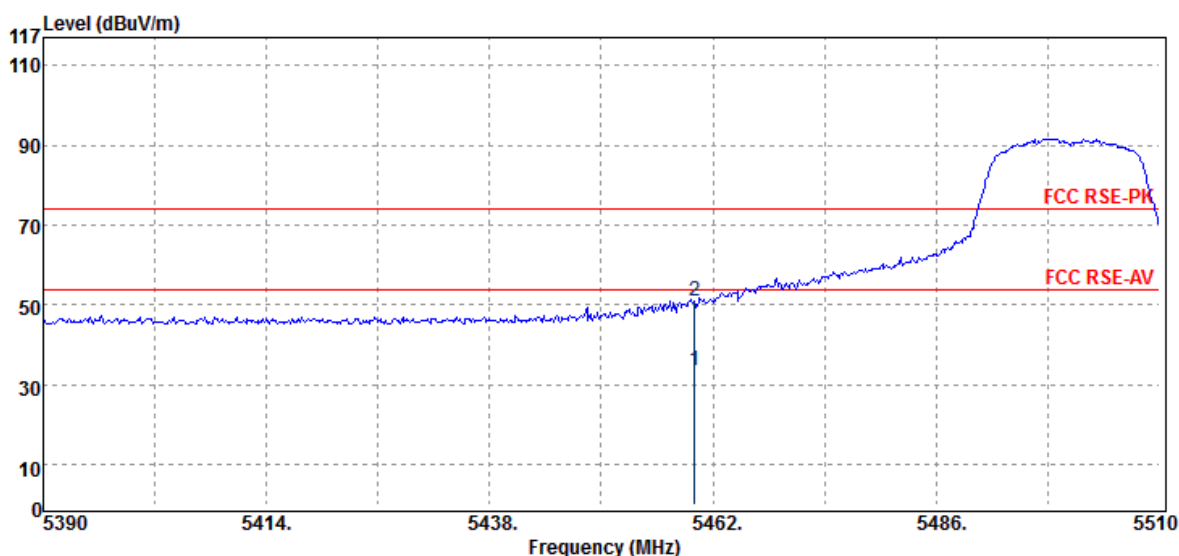
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Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	27.30	6.23	33.53	54.00	-20.47
5460.00	E	Peak	44.76	6.23	50.99	74.00	-23.01

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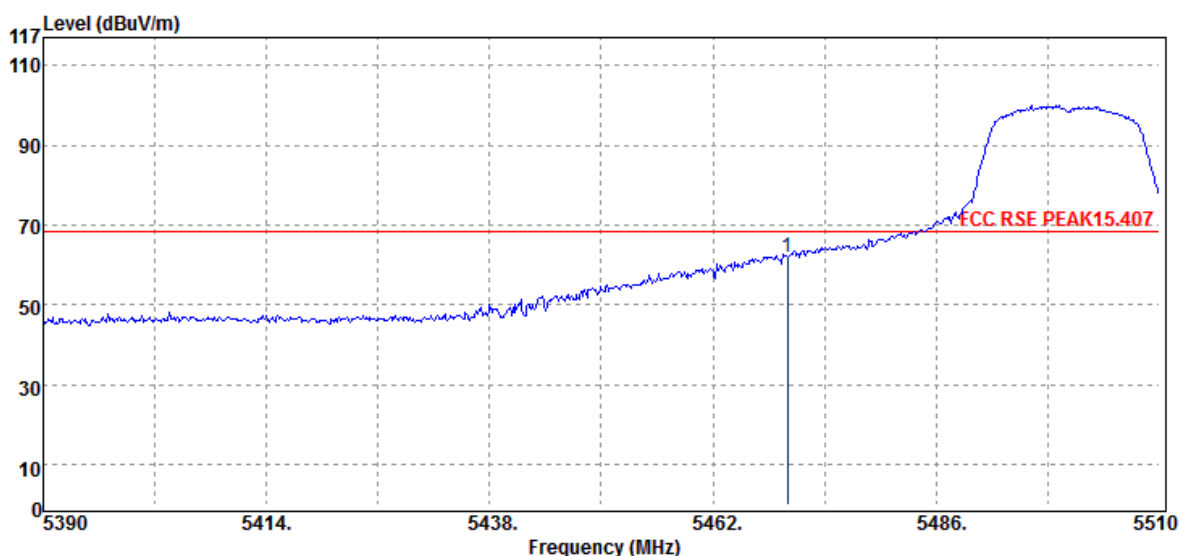
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Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	55.74	6.26	62.00	68.30	-6.30

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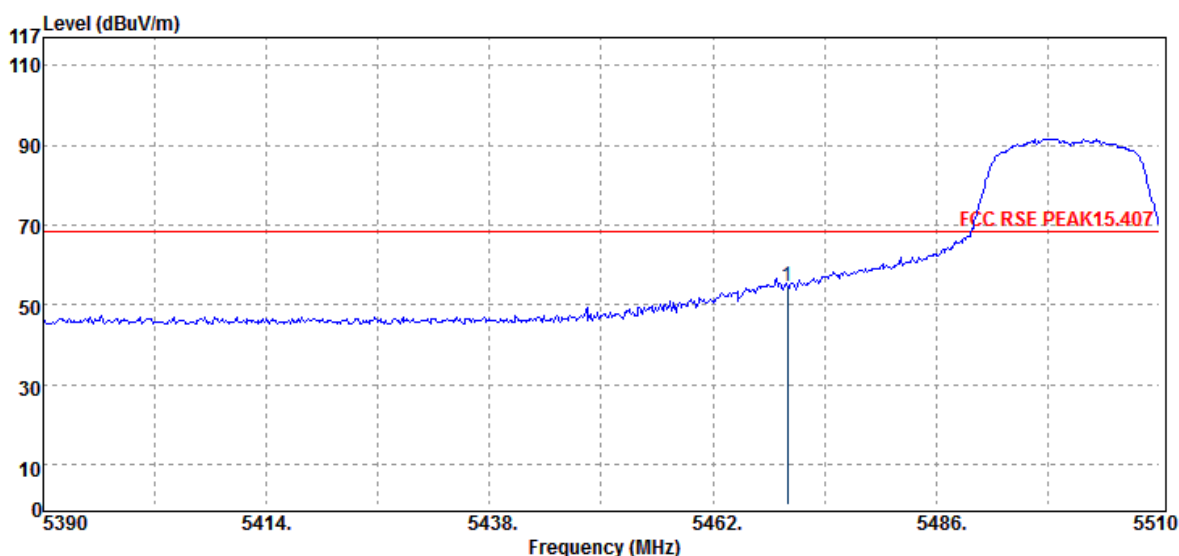
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Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	48.57	6.26	54.83	68.30	-13.47

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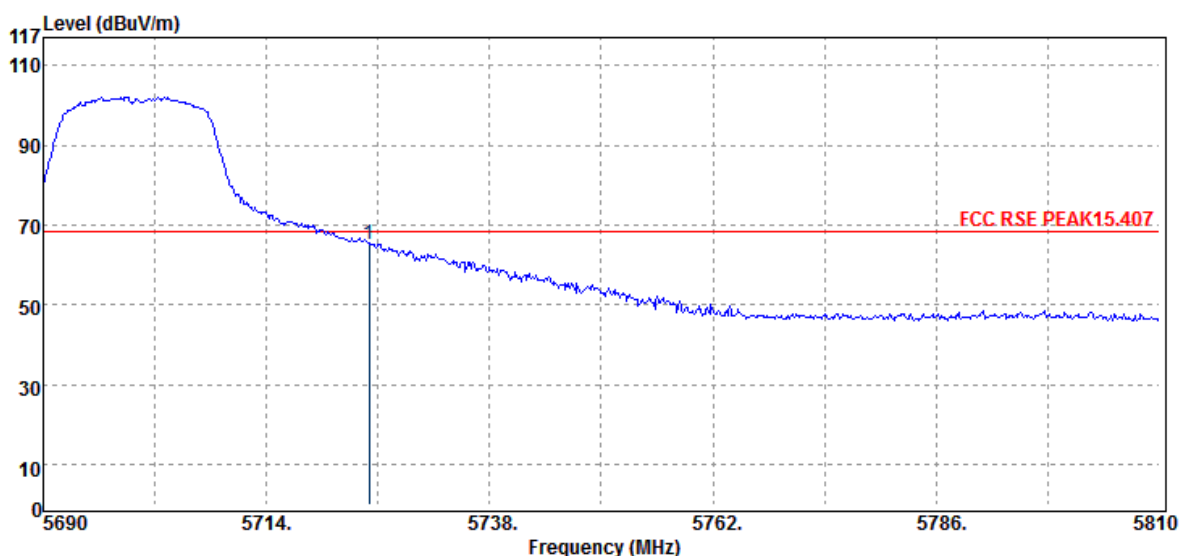
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Member of SGS Group

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

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	58.79	6.59	65.38	68.30	-2.92

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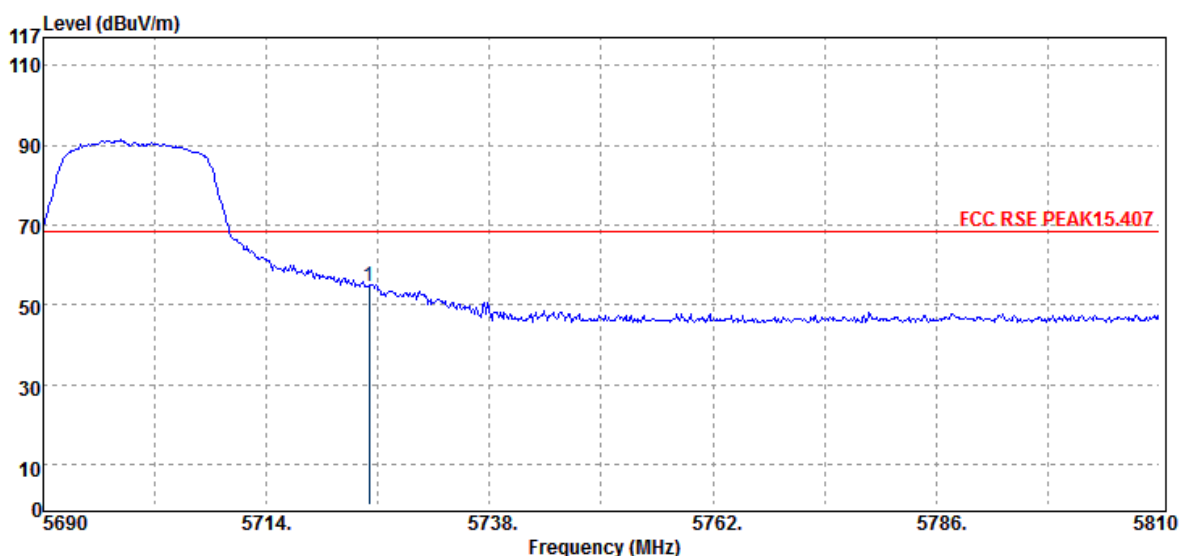
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Member of SGS Group

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

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	48.10	6.59	54.69	68.30	-13.61

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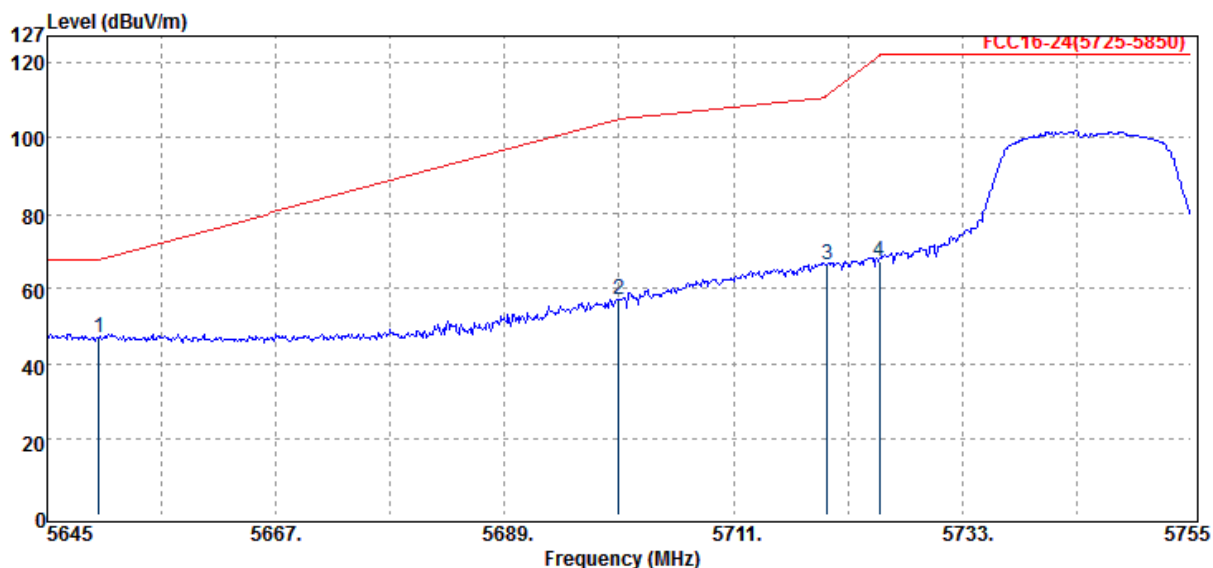
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Member of SGS Group

Operation Band :802.11aB4
 Fundamental Frequency :5745 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	E	Peak	40.75	6.48	47.23	68.23	-21.00
5700.00	E	Peak	50.25	6.67	56.92	105.23	-48.31
5720.00	E	Peak	59.86	6.60	66.46	110.83	-44.37
5725.00	E	Peak	60.73	6.59	67.32	122.23	-54.91

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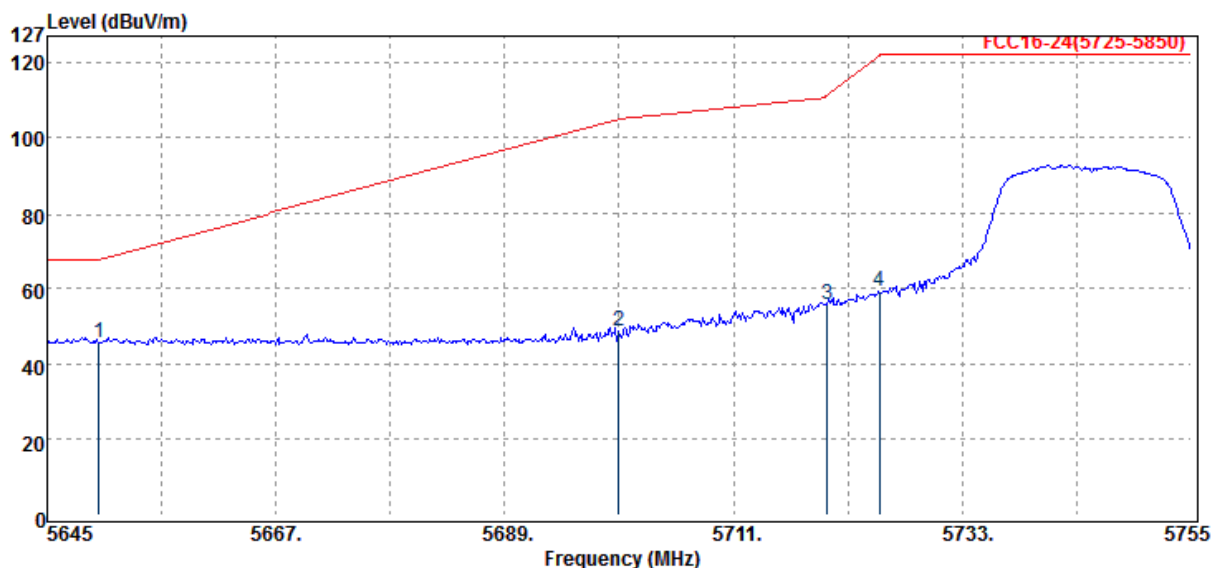
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Operation Band :802.11aB4
 Fundamental Frequency :5745 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	E	Peak	39.31	6.48	45.79	68.23	-22.44
5700.00	E	Peak	42.30	6.67	48.97	105.23	-56.26
5720.00	E	Peak	49.06	6.60	55.66	110.83	-55.17
5725.00	E	Peak	52.65	6.59	59.24	122.23	-62.99

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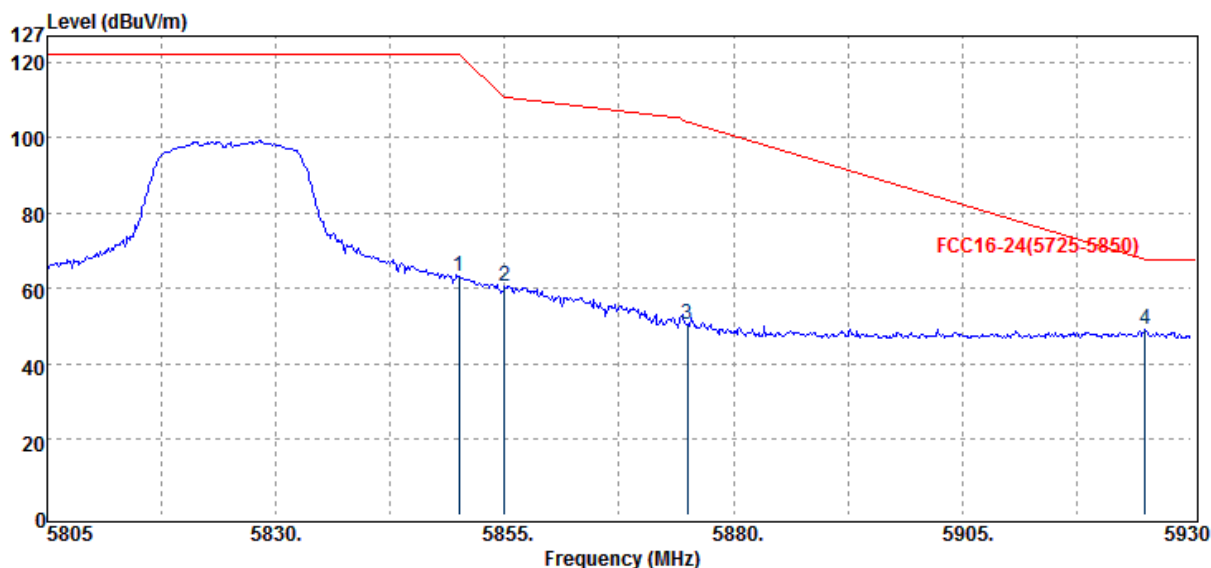
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Member of SGS Group

Operation Band :802.11aB4
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	55.86	7.28	63.14	122.23	-59.09
5855.00	E	Peak	53.23	7.32	60.55	110.83	-50.28
5875.00	E	Peak	42.95	7.37	50.32	105.23	-54.91
5925.00	E	Peak	41.61	7.39	49.00	68.23	-19.23

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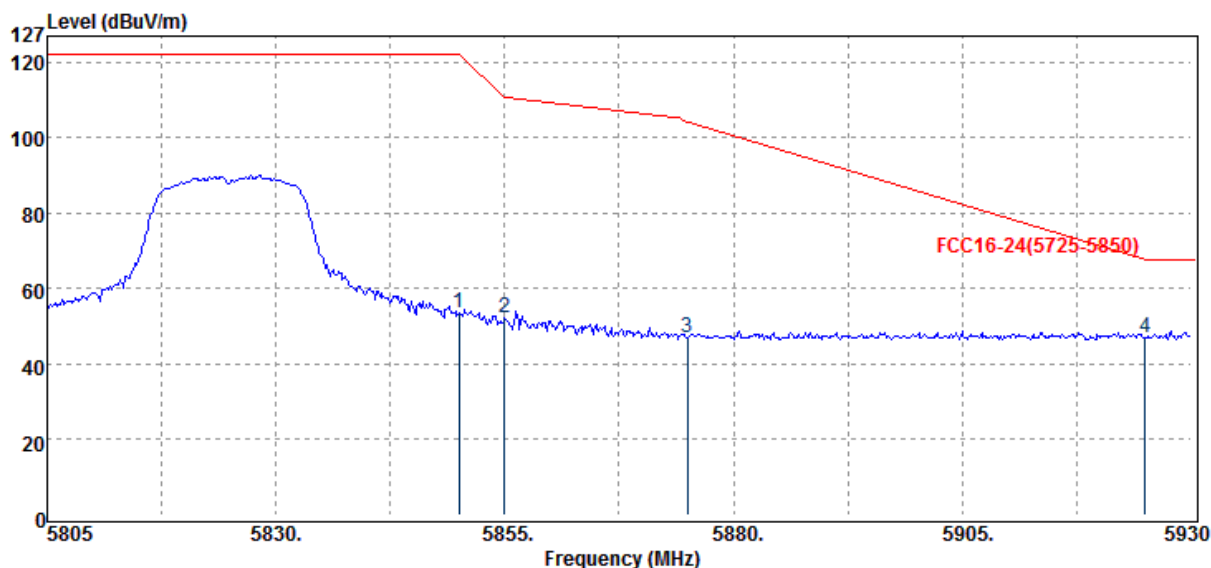
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Operation Band :802.11aB4
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	46.16	7.28	53.44	122.23	-68.79
5855.00	E	Peak	45.09	7.32	52.41	110.83	-58.42
5875.00	E	Peak	39.83	7.37	47.20	105.23	-58.03
5925.00	E	Peak	39.54	7.39	46.93	68.23	-21.30

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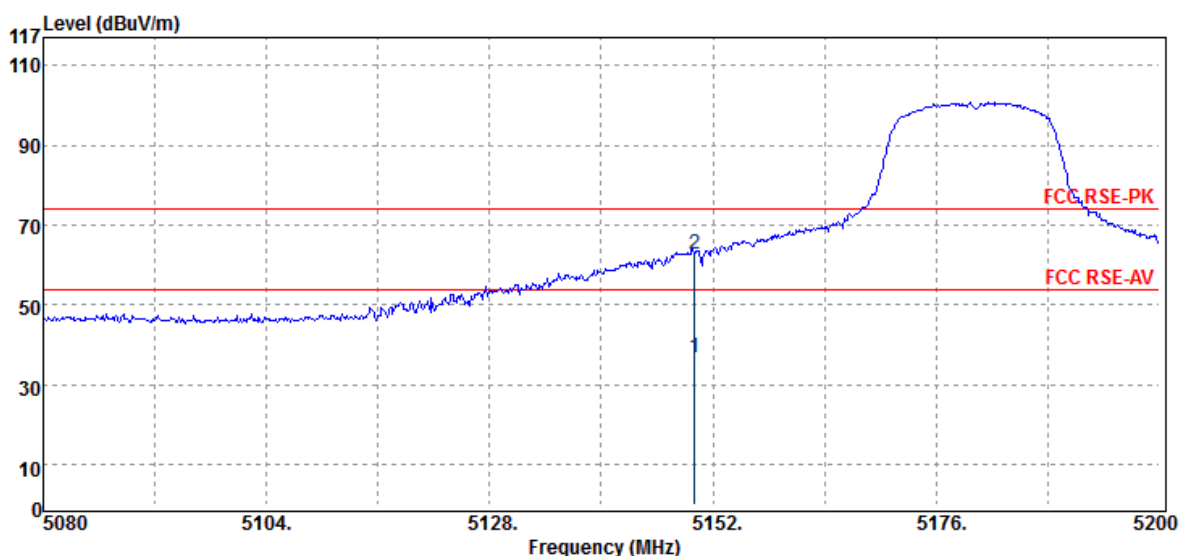
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Operation Band :802.11n20B1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	30.88	5.88	36.76	54.00	-17.24
5150.00	E	Peak	56.72	5.88	62.60	74.00	-11.40

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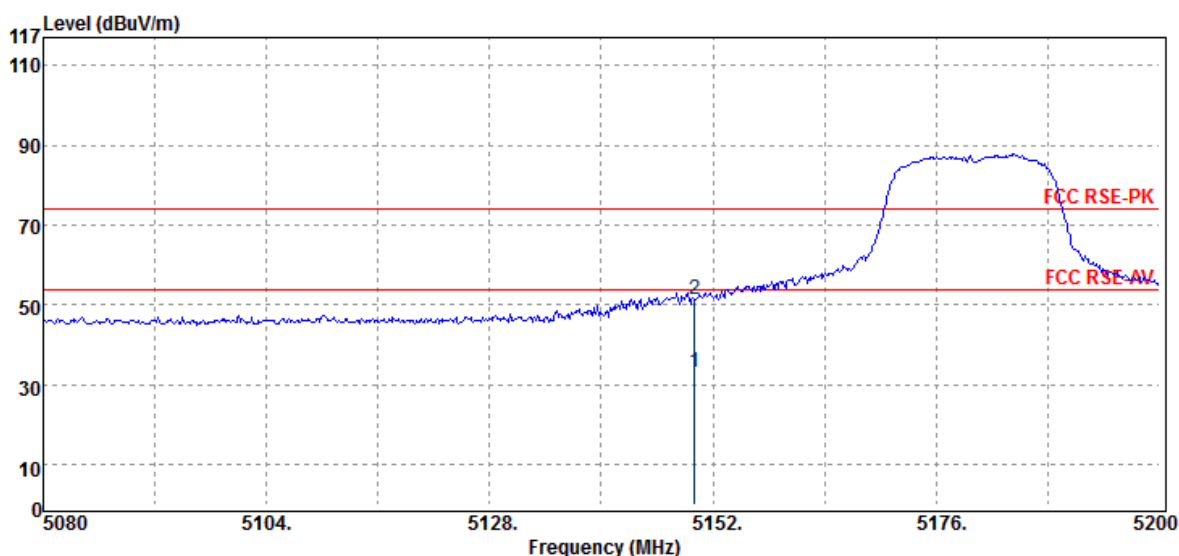
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Operation Band :802.11n20B1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	27.33	5.88	33.21	54.00	-20.79
5150.00	E	Peak	45.46	5.88	51.34	74.00	-22.66

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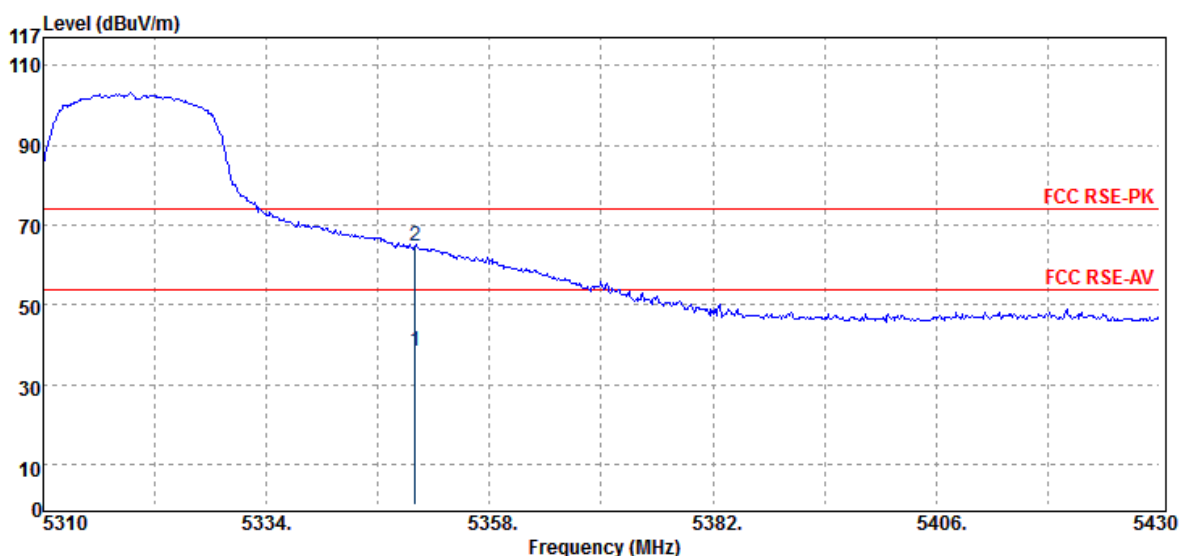
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Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	32.26	6.16	38.42	54.00	-15.58
5350.00	E	Peak	58.73	6.16	64.89	74.00	-9.11

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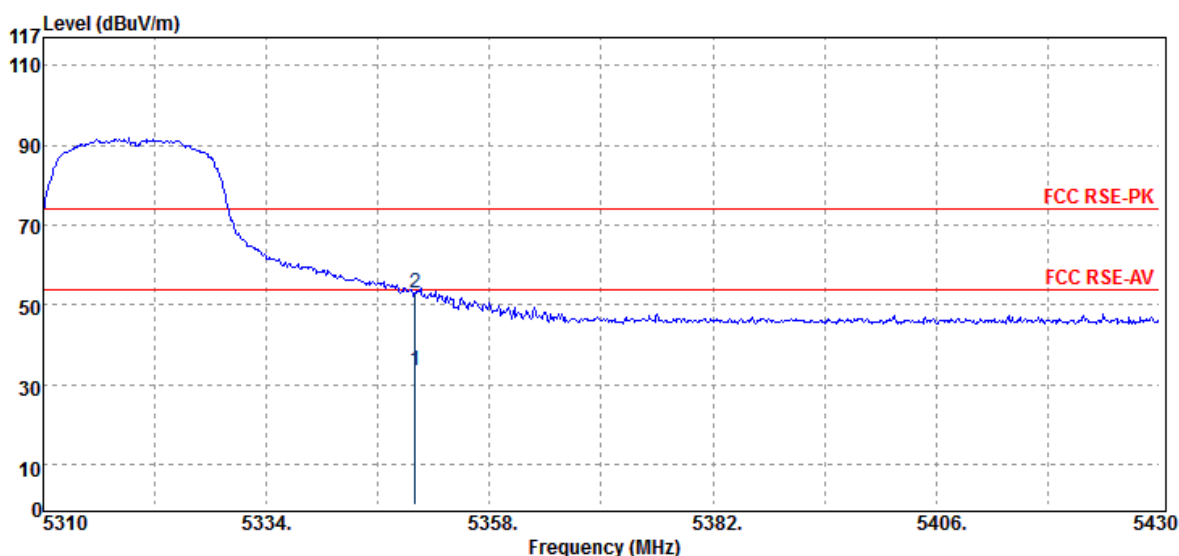
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Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	27.43	6.16	33.59	54.00	-20.41
5350.00	E	Peak	46.87	6.16	53.03	74.00	-20.97

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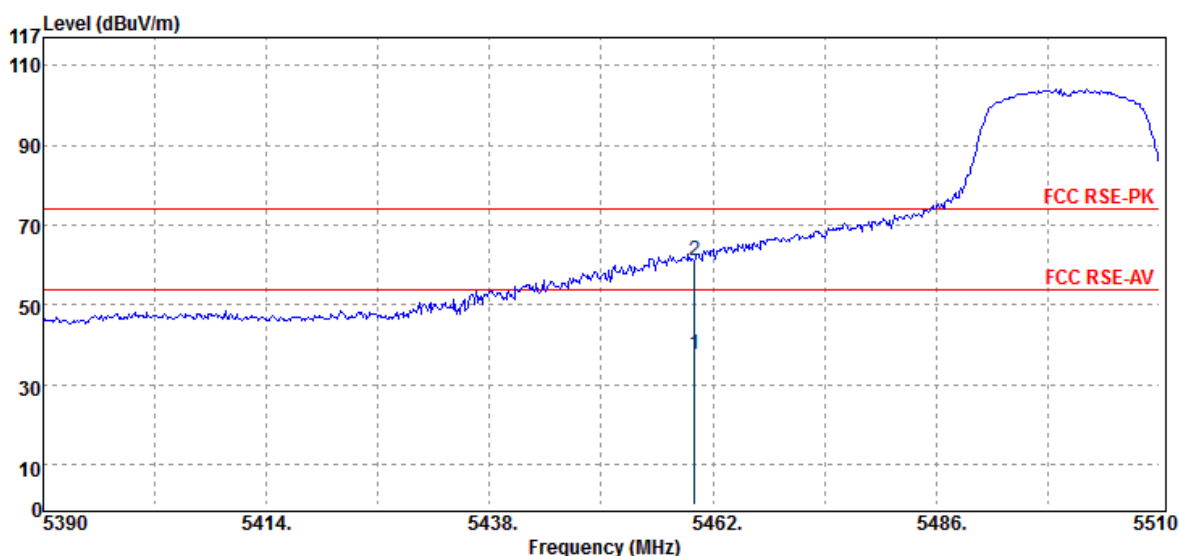
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	31.26	6.23	37.49	54.00	-16.51
5460.00	E	Peak	54.91	6.23	61.14	74.00	-12.86

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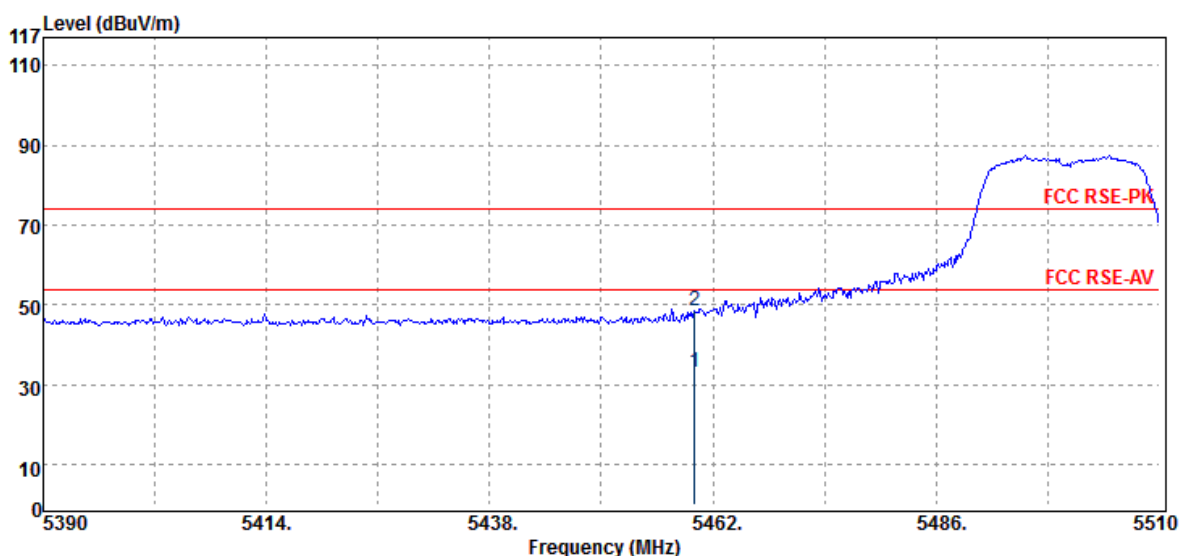
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	26.89	6.23	33.12	54.00	-20.88
5460.00	E	Peak	42.23	6.23	48.46	74.00	-25.54

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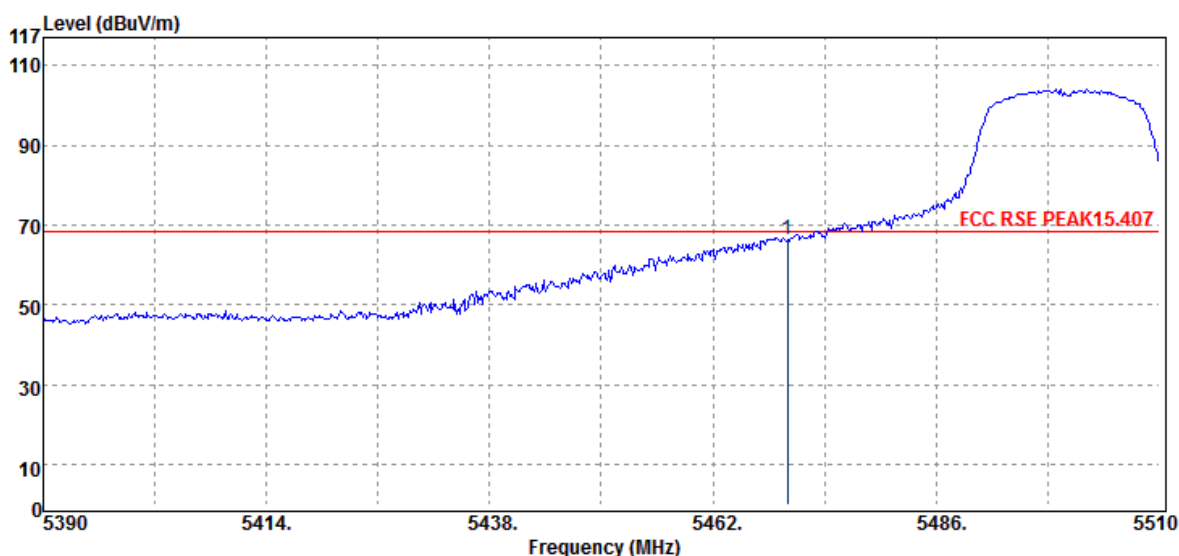
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	59.95	6.26	66.21	68.30	-2.09

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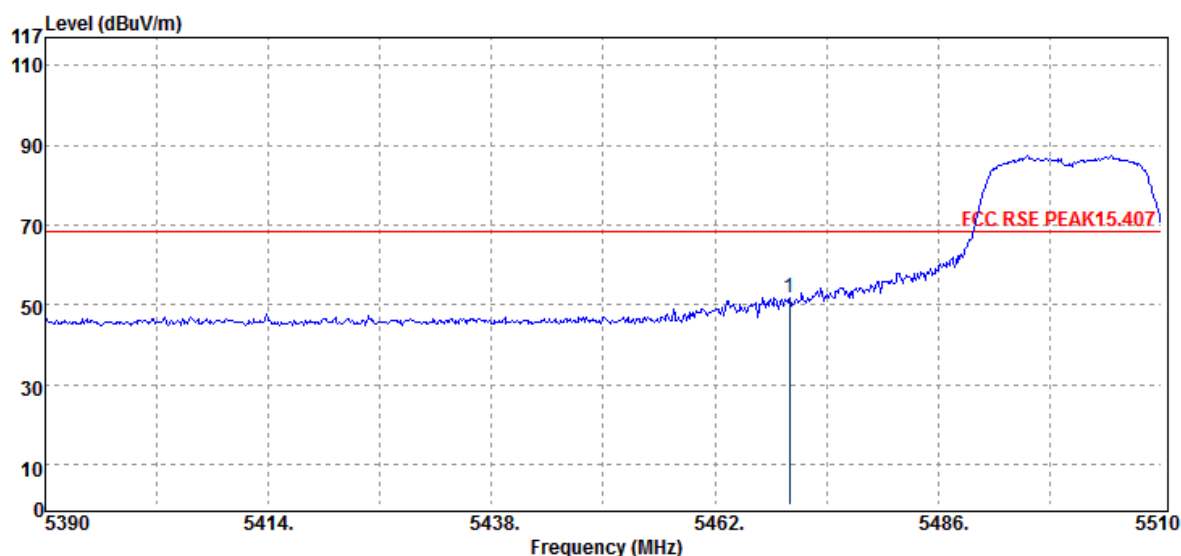
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	45.43	6.26	51.69	68.30	-16.61

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台灣檢驗科技股份有限公司

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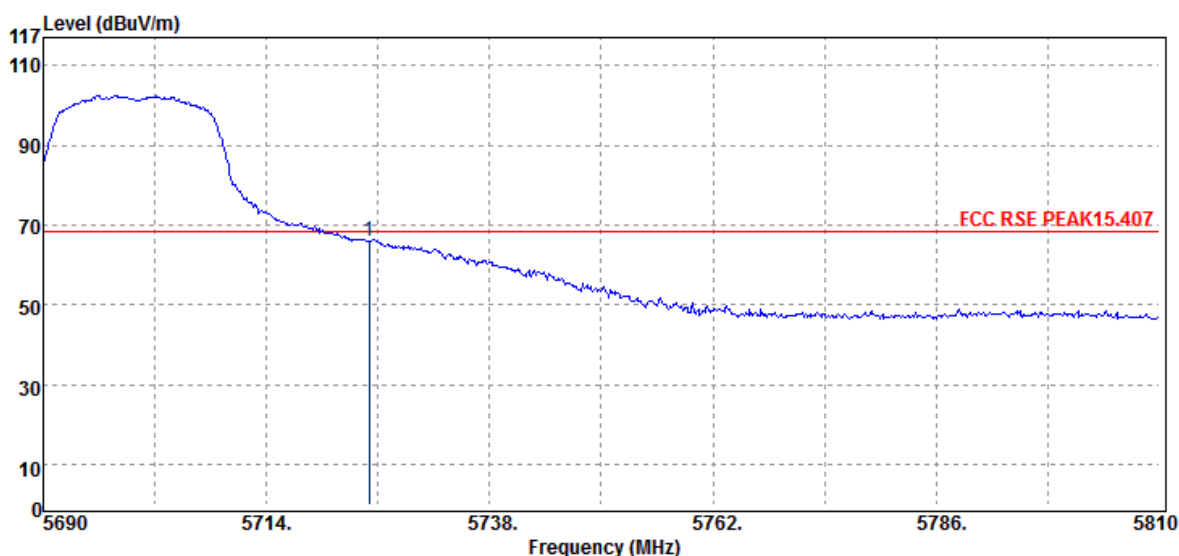
f (886-2) 2298-0488

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Member of SGS Group

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

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	59.53	6.59	66.12	68.30	-2.18

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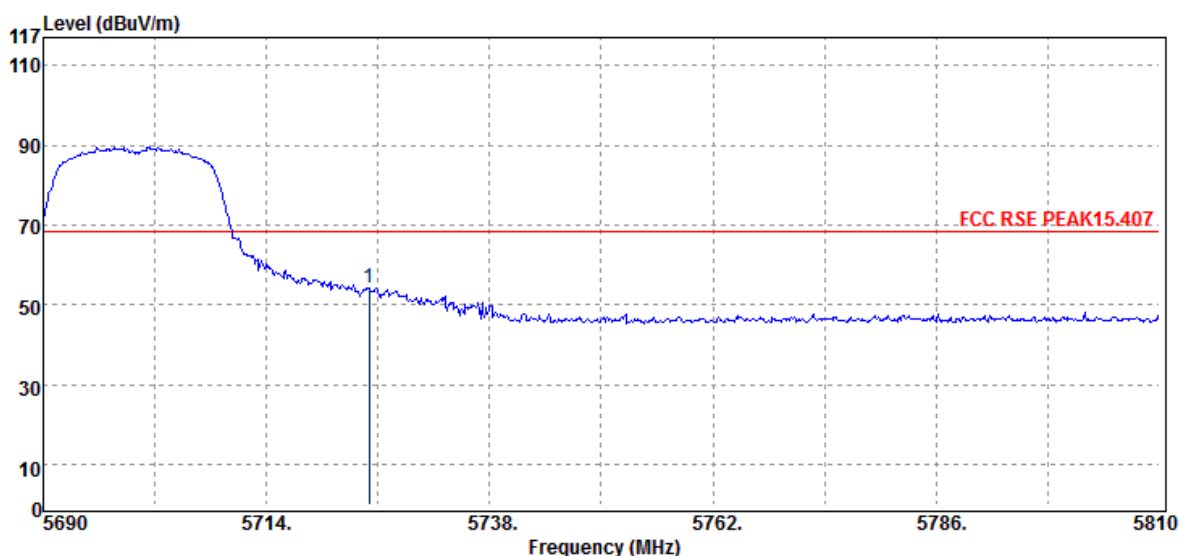
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Member of SGS Group

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

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	47.59	6.59	54.18	68.30	-14.12

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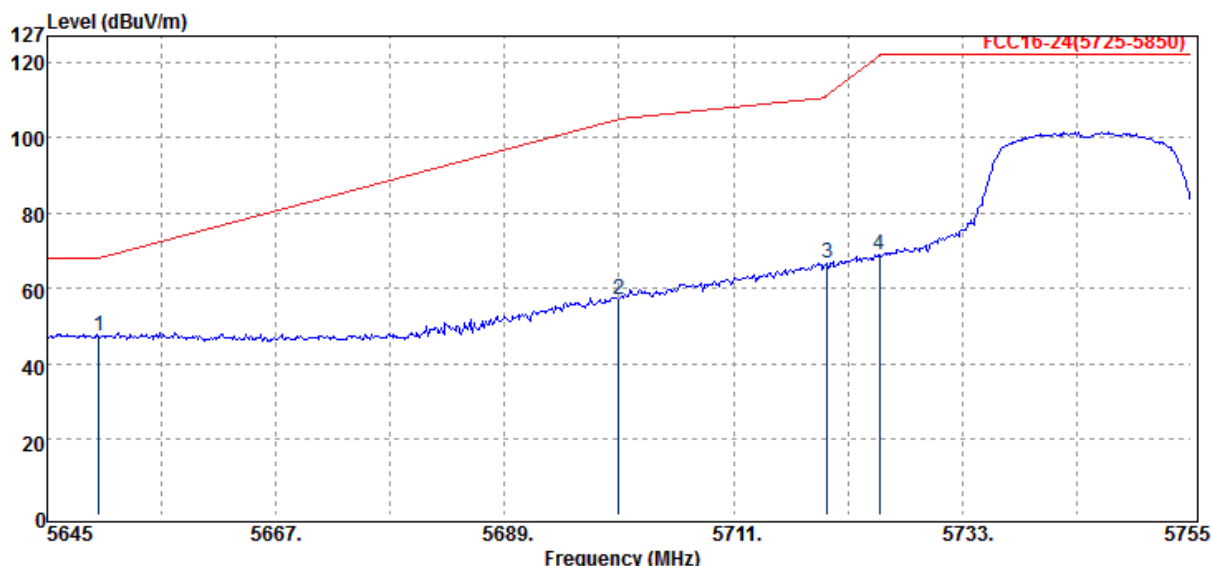
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Member of SGS Group

Operation Band :802.11n20B4
 Fundamental Frequency :5745 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBμV/m	Margin dB
5650.00	E	Peak	40.87	6.48	47.35	68.23	-20.88
5700.00	E	Peak	50.28	6.67	56.95	105.23	-48.28
5720.00	E	Peak	60.28	6.60	66.88	110.83	-43.95
5725.00	E	Peak	62.42	6.59	69.01	122.23	-53.22

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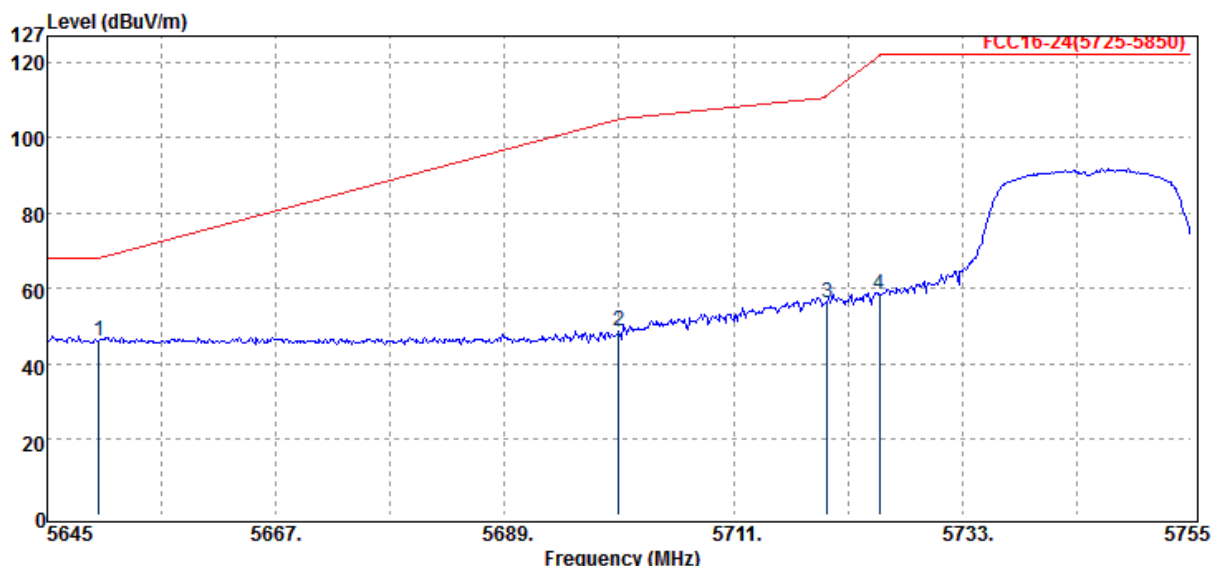
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Operation Band :802.11n20B4
 Fundamental Frequency :5745 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	E	Peak	39.72	6.48	46.20	68.23	-22.03
5700.00	E	Peak	42.05	6.67	48.72	105.23	-56.51
5720.00	E	Peak	49.64	6.60	56.24	110.83	-54.59
5725.00	E	Peak	52.06	6.59	58.65	122.23	-63.58

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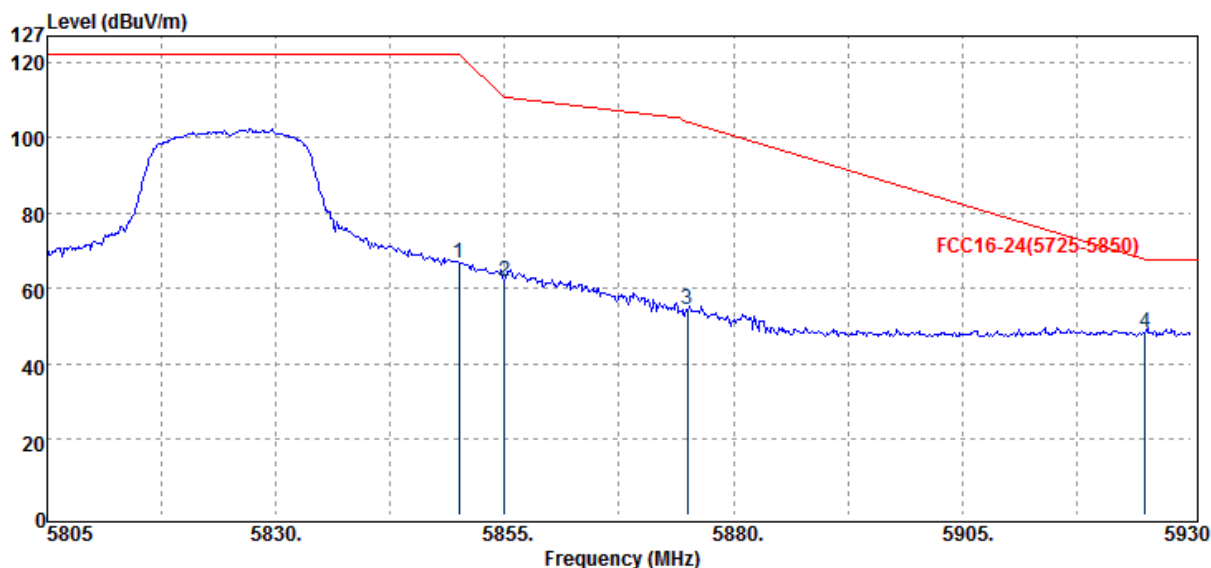
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Operation Band :802.11n20B4
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	59.48	7.28	66.76	122.23	-55.47
5855.00	E	Peak	54.85	7.32	62.17	110.83	-48.66
5875.00	E	Peak	47.17	7.37	54.54	105.23	-50.69
5925.00	E	Peak	41.03	7.39	48.42	68.23	-19.81

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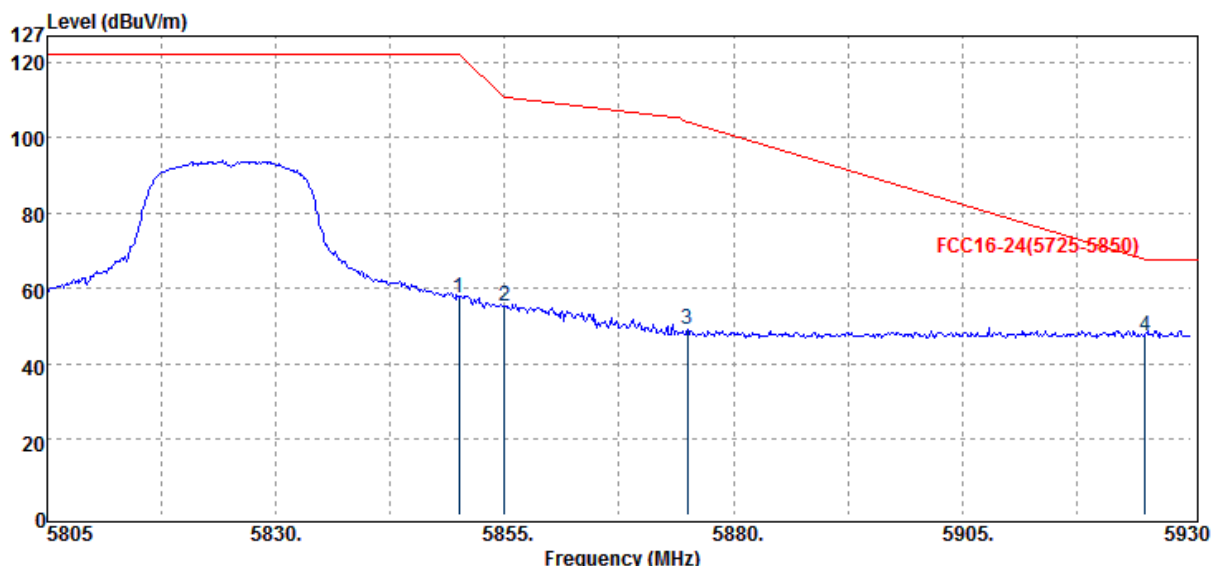
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Member of SGS Group

Operation Band :802.11n20B4
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-04
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	50.41	7.28	57.69	122.23	-64.54
5855.00	E	Peak	48.17	7.32	55.49	110.83	-55.34
5875.00	E	Peak	42.04	7.37	49.41	105.23	-55.82
5925.00	E	Peak	40.21	7.39	47.60	68.23	-20.63

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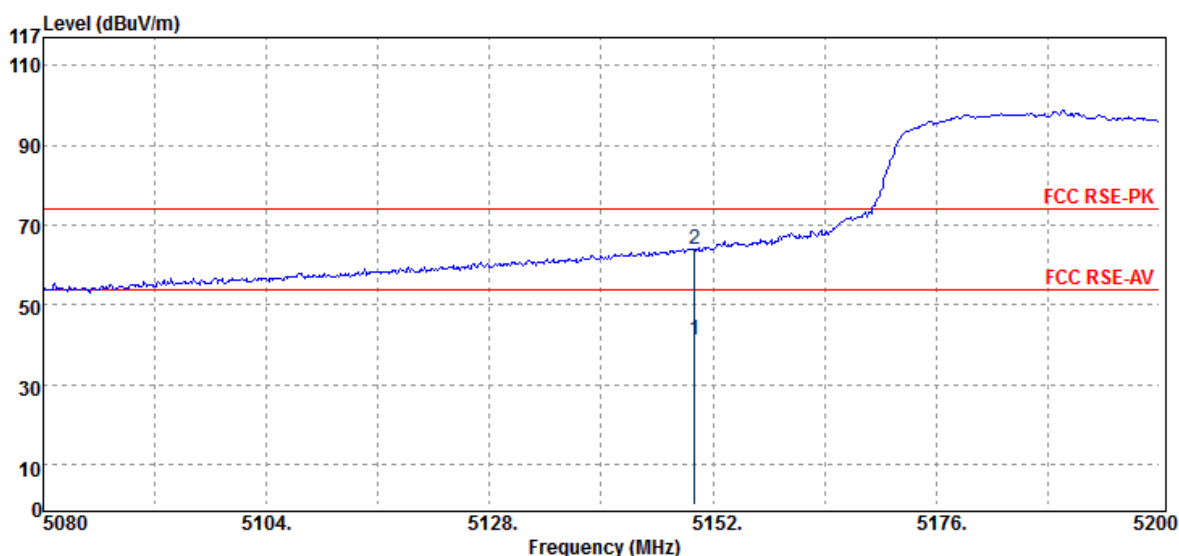
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Member of SGS Group

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

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	35.48	5.88	41.36	54.00	-12.64
5150.00	E	Peak	57.99	5.88	63.87	74.00	-10.13

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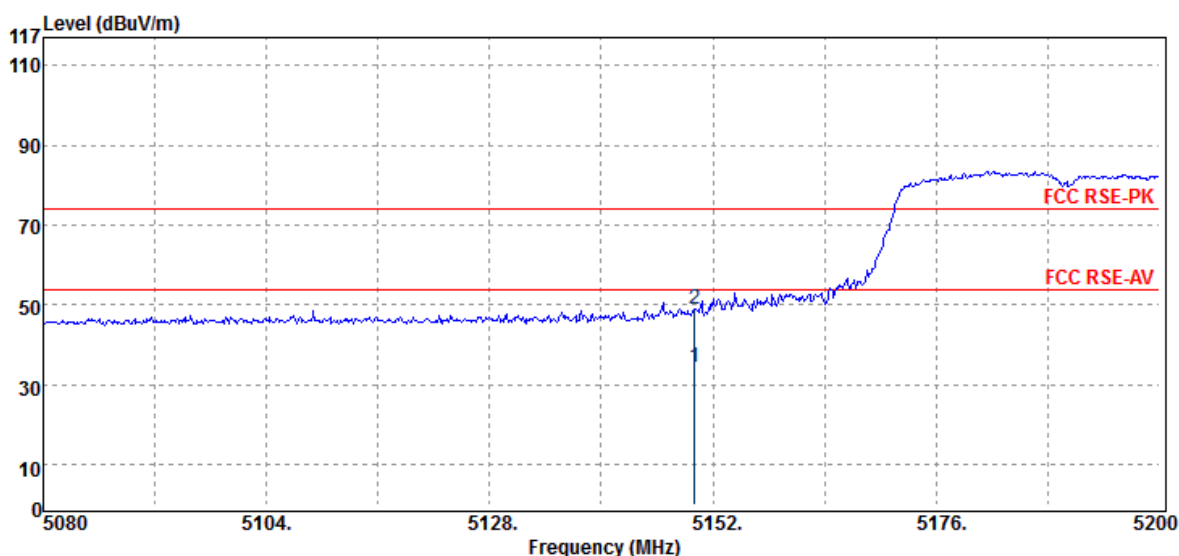
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Member of SGS Group

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

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	28.68	5.88	34.56	54.00	-19.44
5150.00	E	Peak	43.15	5.88	49.03	74.00	-24.97

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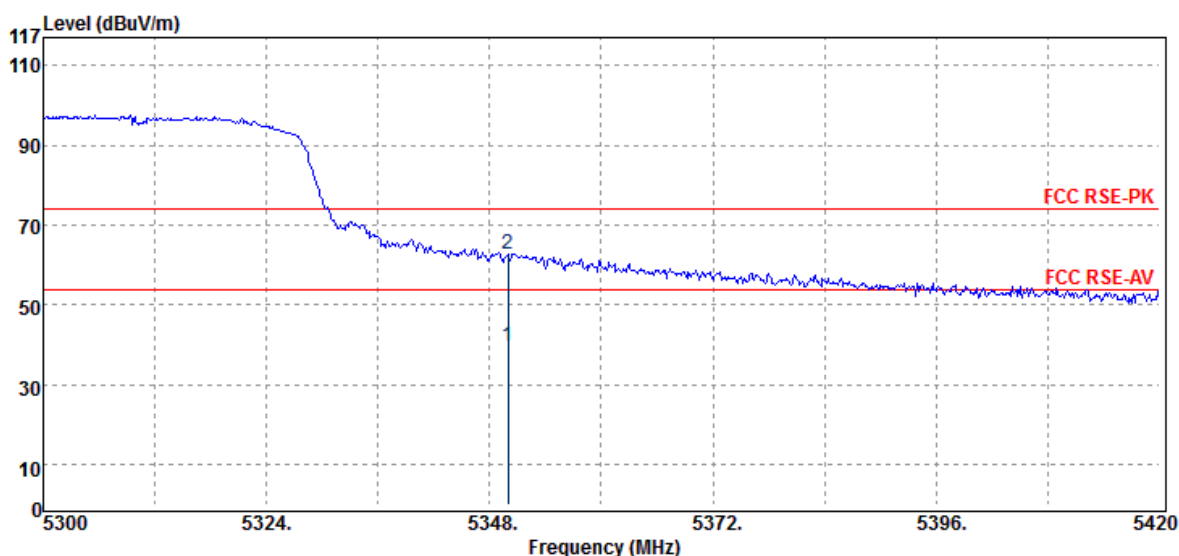
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Member of SGS Group

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

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	33.67	6.16	39.83	54.00	-14.17
5350.00	E	Peak	56.63	6.16	62.79	74.00	-11.21

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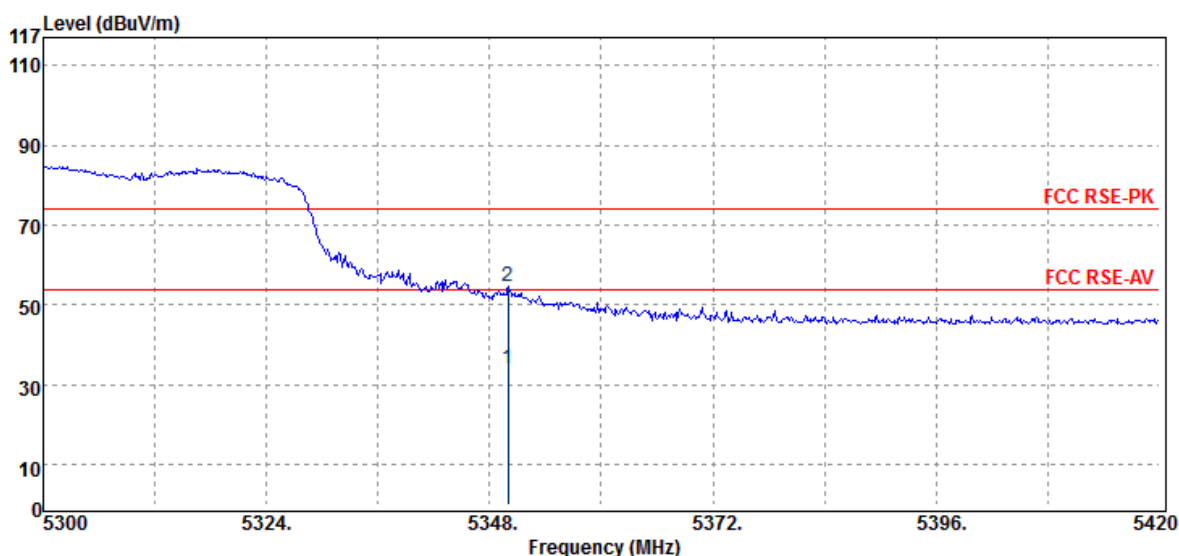
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Operation Band :802.11n40B2
 Fundamental Frequency :5310 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	27.98	6.16	34.14	54.00	-19.86
5350.00	E	Peak	48.68	6.16	54.84	74.00	-19.16

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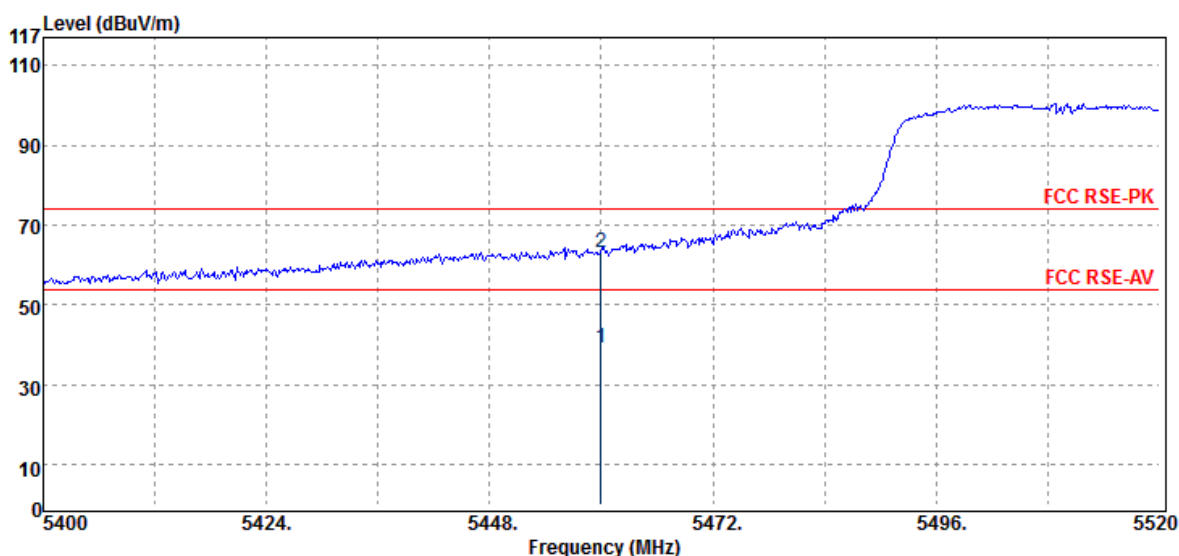
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Operation Band :802.11n40B3
 Fundamental Frequency :5510 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	32.96	6.23	39.19	54.00	-14.81
5460.00	E	Peak	56.93	6.23	63.16	74.00	-10.84

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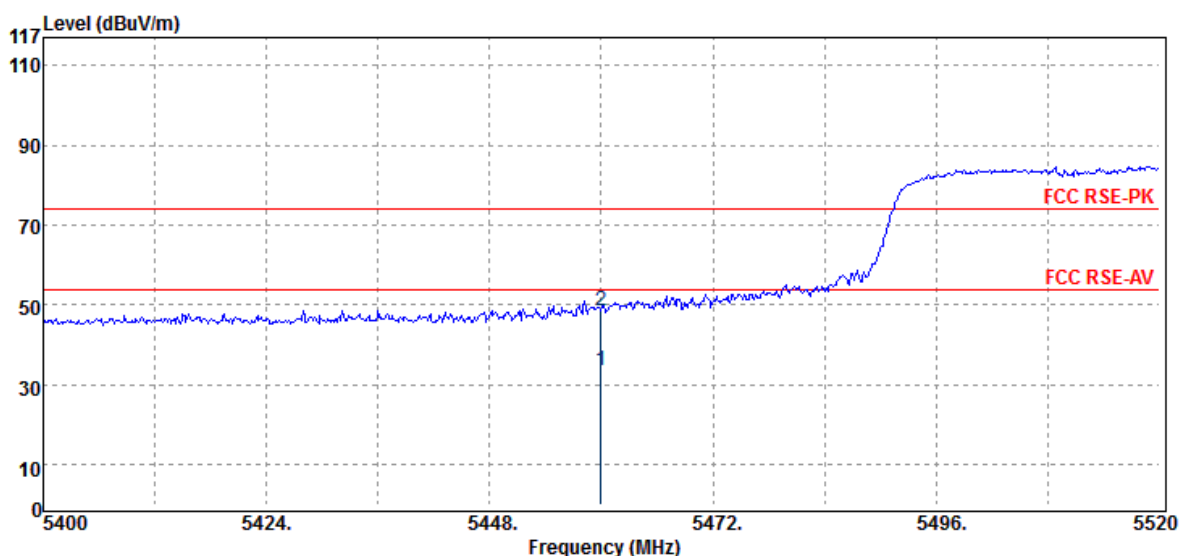
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www.tw.sgs.com

Member of SGS Group

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

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	27.23	6.23	33.46	54.00	-20.54
5460.00	E	Peak	42.44	6.23	48.67	74.00	-25.33

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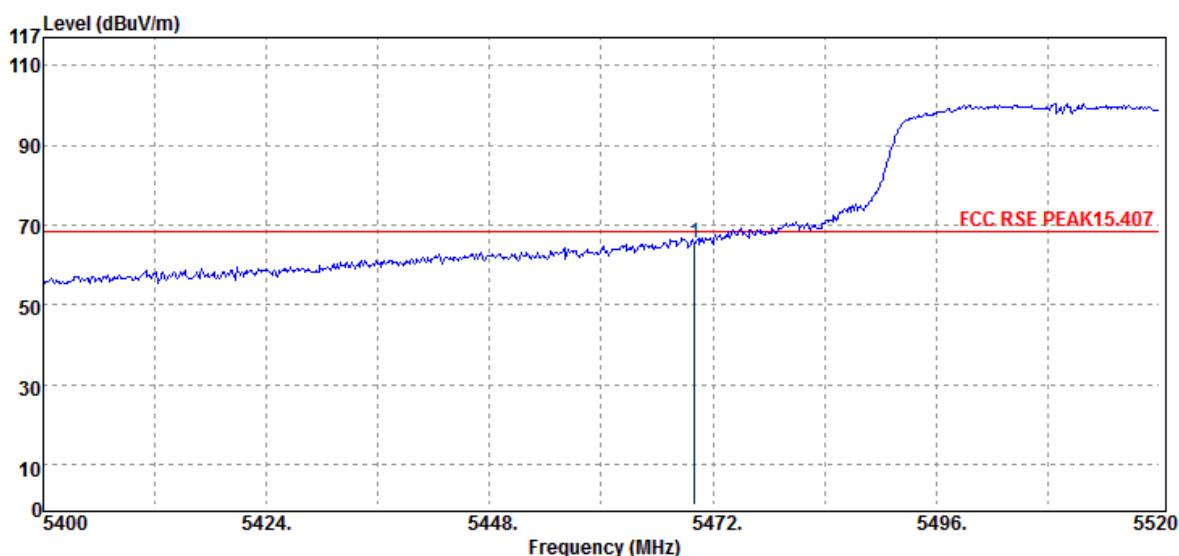
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www.tw.sgs.com

Member of SGS Group

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

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	59.14	6.26	65.40	68.30	-2.90

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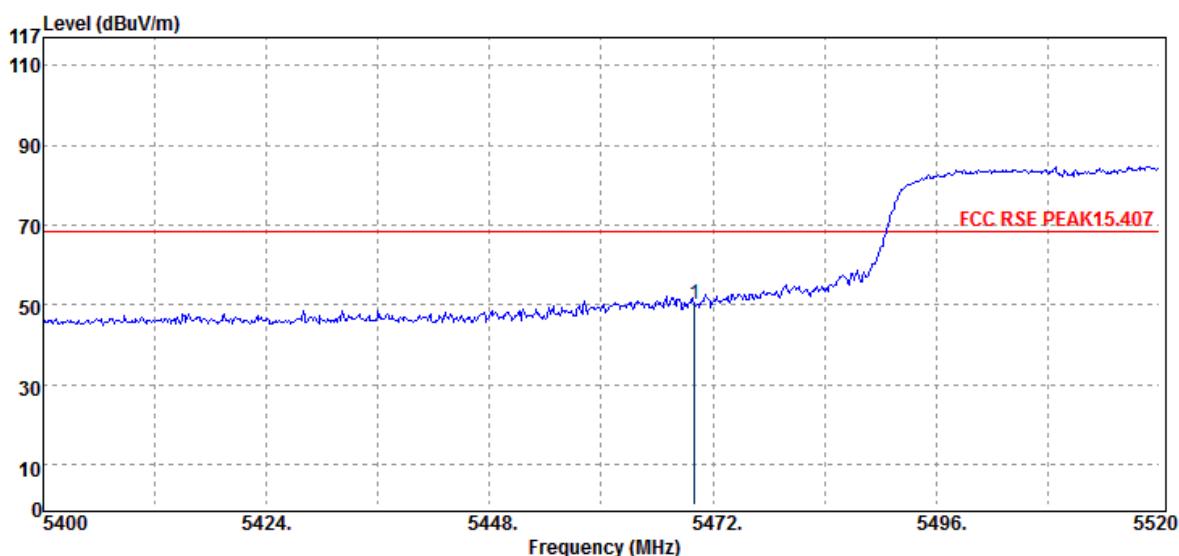
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Member of SGS Group

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

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	43.80	6.26	50.06	68.30	-18.24

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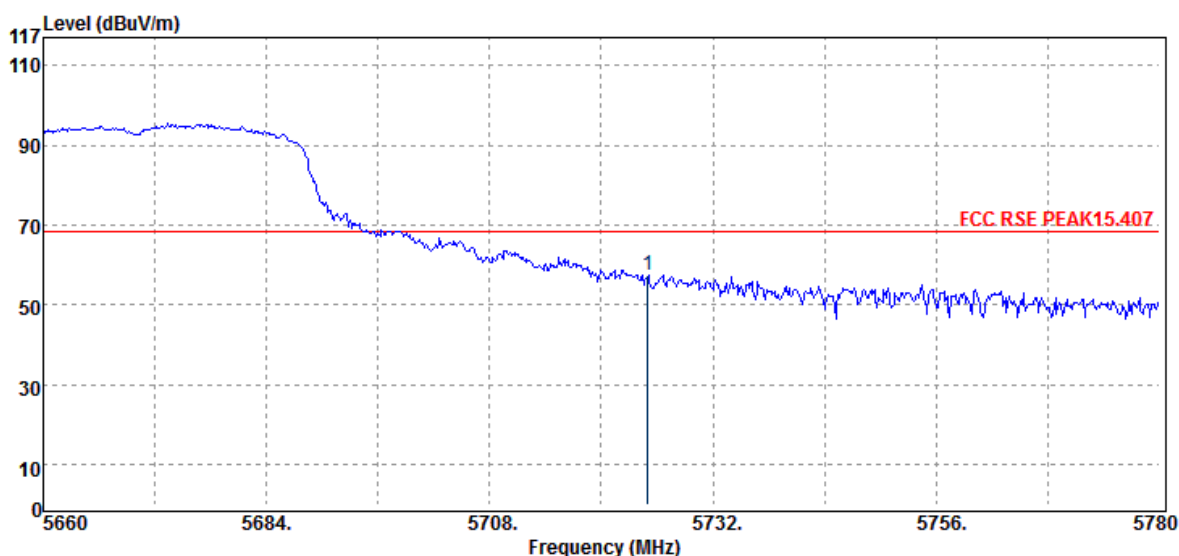
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Operation Band :802.11n40B3
 Fundamental Frequency :5670 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	50.74	6.59	57.33	68.30	-10.97

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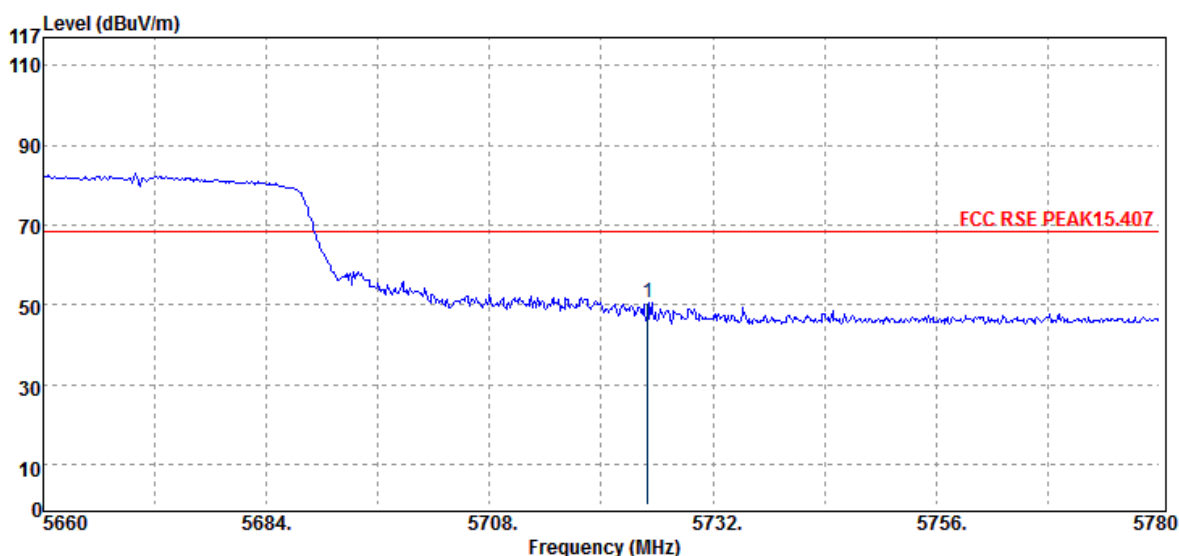
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Operation Band :802.11n40B3
 Fundamental Frequency :5670 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	43.89	6.59	50.48	68.30	-17.82

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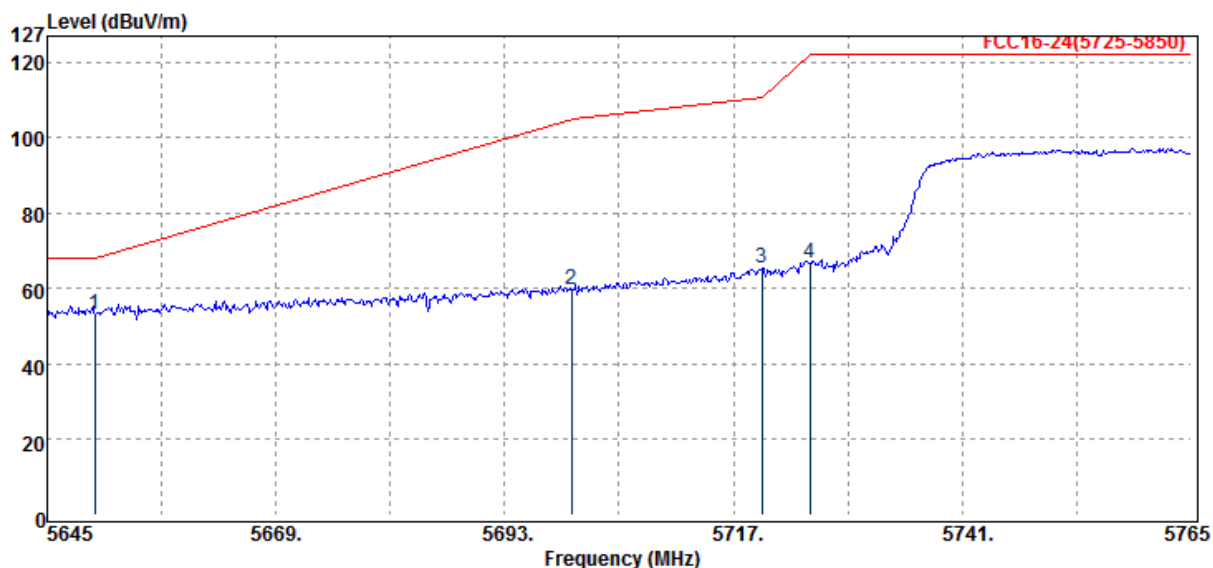
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Member of SGS Group

Operation Band :802.11n40B4
 Fundamental Frequency :5755 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBμV/m	Margin dB
5650.00	E	Peak	46.51	6.48	52.99	68.23	-15.24
5700.00	E	Peak	53.04	6.67	59.71	105.23	-45.52
5720.00	E	Peak	58.95	6.60	65.55	110.83	-45.28
5725.00	E	Peak	60.17	6.59	66.76	122.23	-55.47

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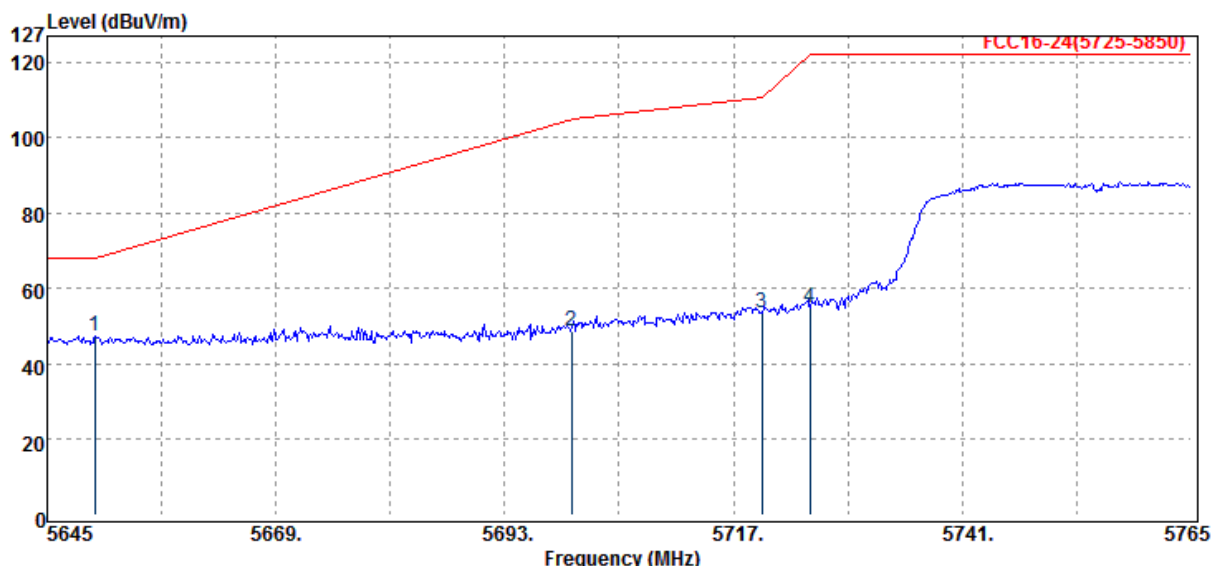
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Operation Band :802.11n40B4
 Fundamental Frequency :5755 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	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
5650.00	E	Peak	41.18	6.48	47.66	68.23	-20.57
5700.00	E	Peak	42.15	6.67	48.82	105.23	-56.41
5720.00	E	Peak	46.89	6.60	53.49	110.83	-57.34
5725.00	E	Peak	48.13	6.59	54.72	122.23	-67.51

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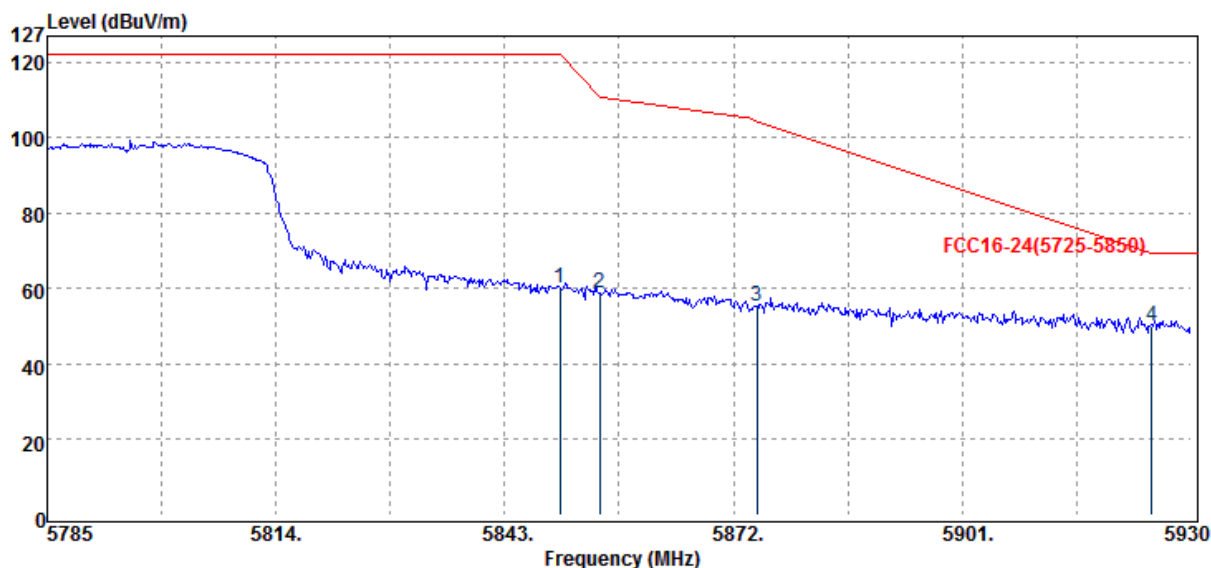
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Operation Band :802.11n40B4
 Fundamental Frequency :5795 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	52.75	7.28	60.03	122.23	-62.20
5855.00	E	Peak	51.39	7.32	58.71	110.83	-52.12
5875.00	E	Peak	47.79	7.37	55.16	105.23	-50.07
5925.00	E	Peak	42.87	7.39	50.26	68.23	-17.97

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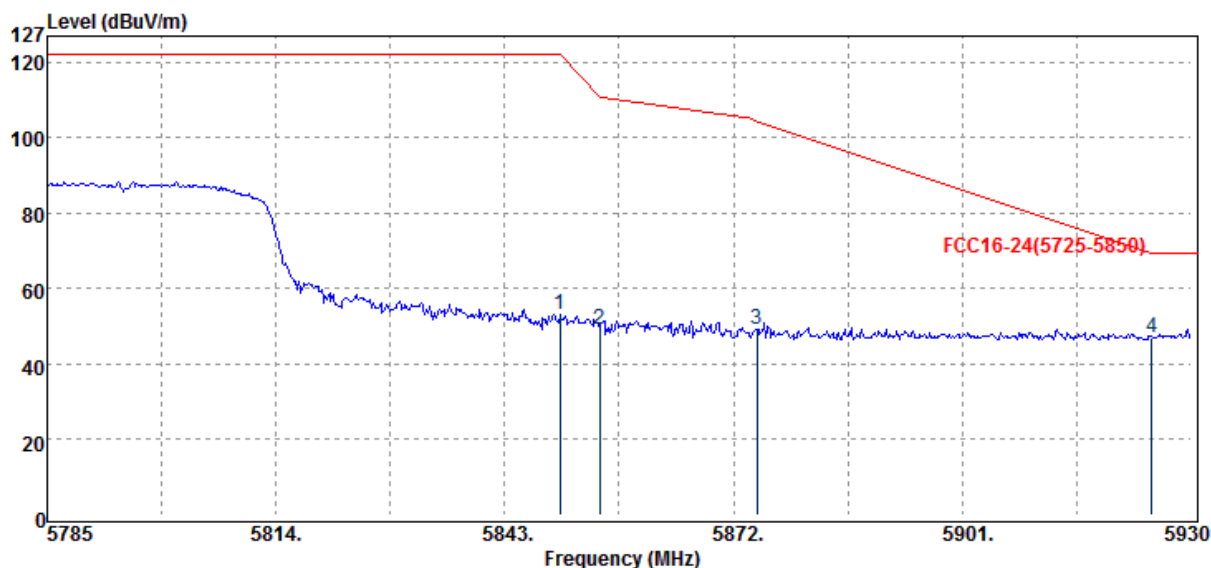
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Operation Band :802.11n40B4
 Fundamental Frequency :5795 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	45.85	7.28	53.13	122.23	-69.10
5855.00	E	Peak	41.82	7.32	49.14	110.83	-61.69
5875.00	E	Peak	41.84	7.37	49.21	105.23	-56.02
5925.00	E	Peak	39.72	7.39	47.11	68.23	-21.12

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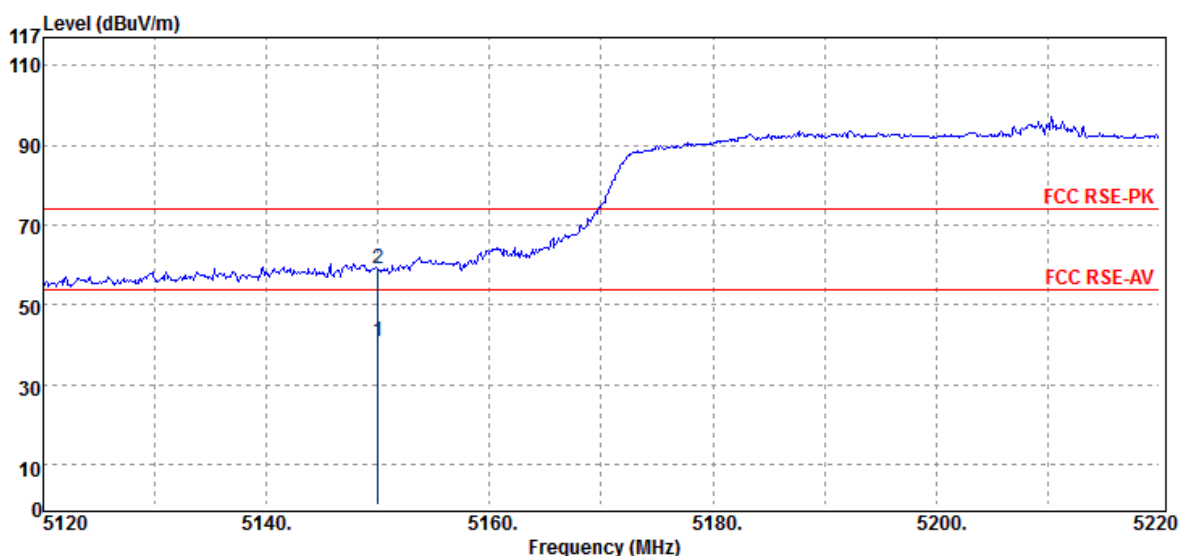
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Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	35.15	5.88	41.03	54.00	-12.97
5150.00	E	Peak	53.20	5.88	59.08	74.00	-14.92

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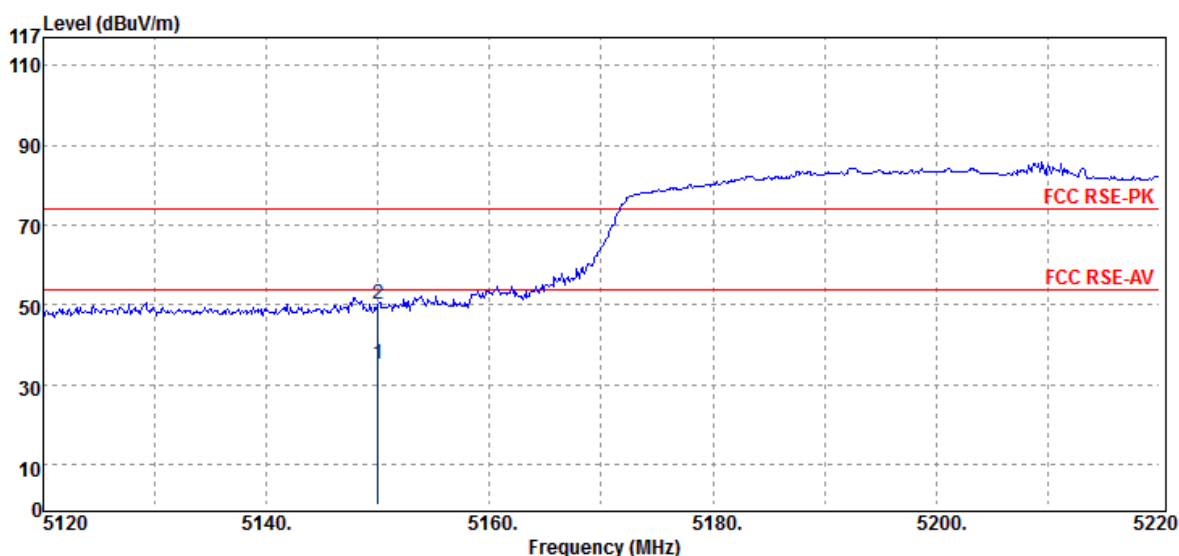
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Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	29.34	5.88	35.22	54.00	-18.78
5150.00	E	Peak	44.50	5.88	50.38	74.00	-23.62

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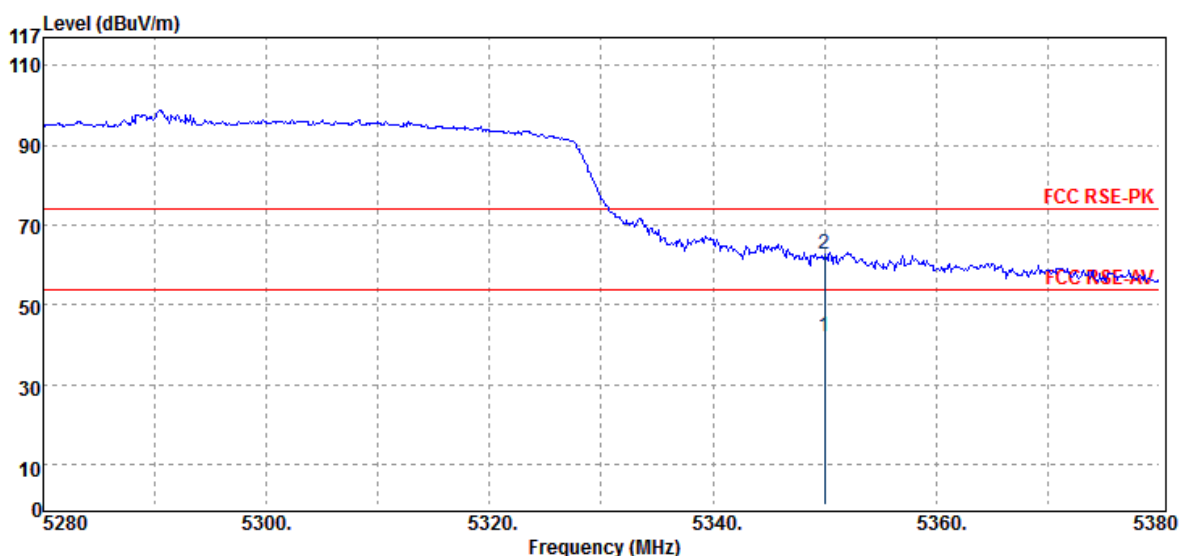
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Member of SGS Group

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

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	35.88	6.16	42.04	54.00	-11.96
5350.00	E	Peak	56.50	6.16	62.66	74.00	-11.34

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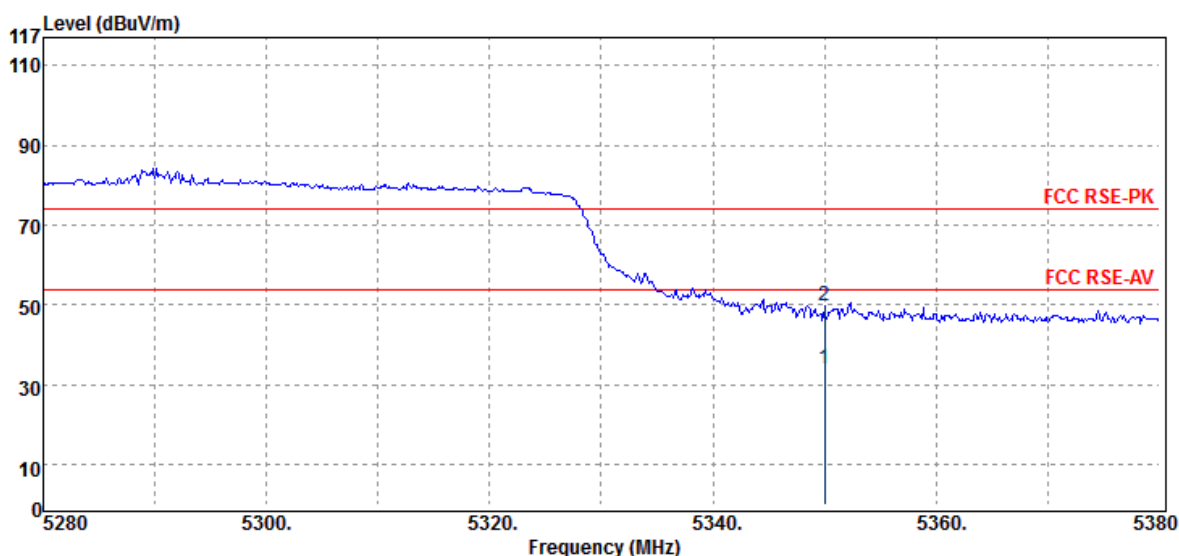
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Member of SGS Group

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

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	27.79	6.16	33.95	54.00	-20.05
5350.00	E	Peak	43.81	6.16	49.97	74.00	-24.03

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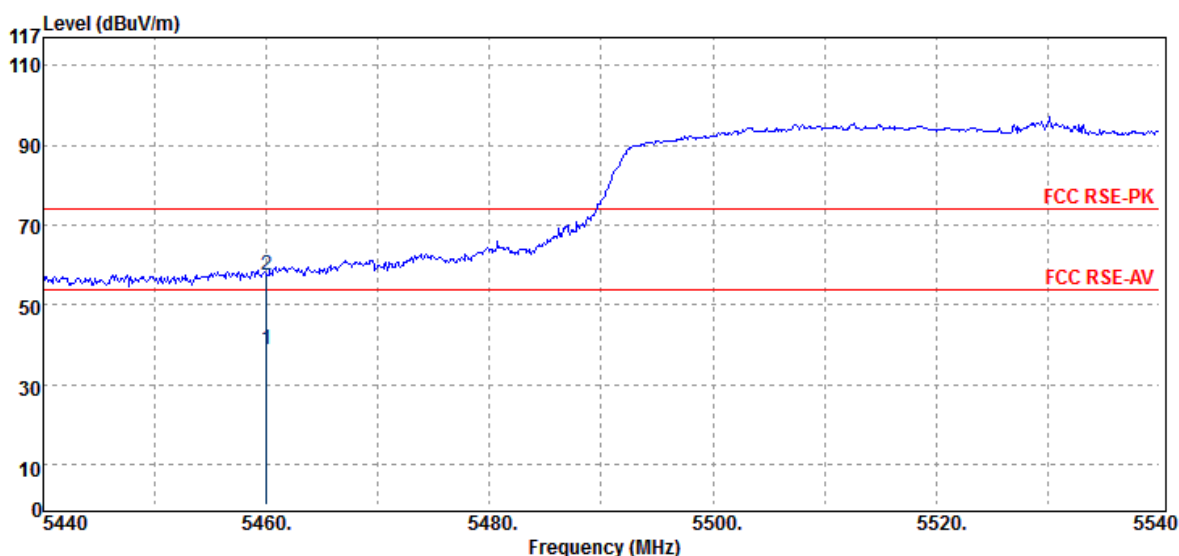
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Member of SGS Group

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

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Average	32.58	6.23	38.81	54.00	-15.19
5460.00	E	Peak	51.27	6.23	57.50	74.00	-16.50

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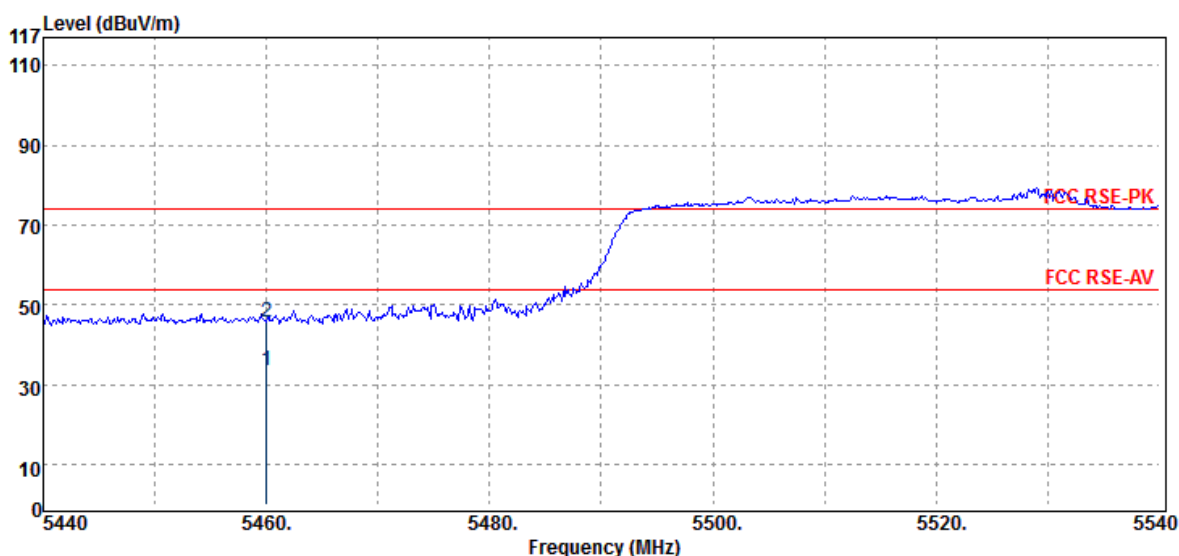
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Member of SGS Group

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

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	27.27	6.23	33.50	54.00	-20.50
5460.00	E	Peak	39.68	6.23	45.91	74.00	-28.09

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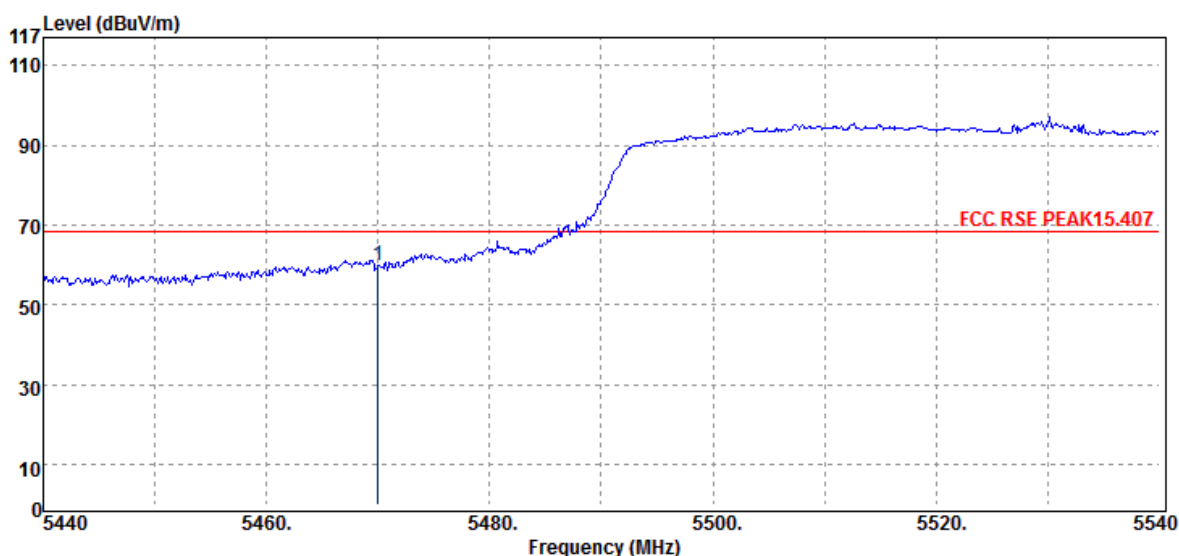
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Member of SGS Group

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

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	53.77	6.26	60.03	68.30	-8.27

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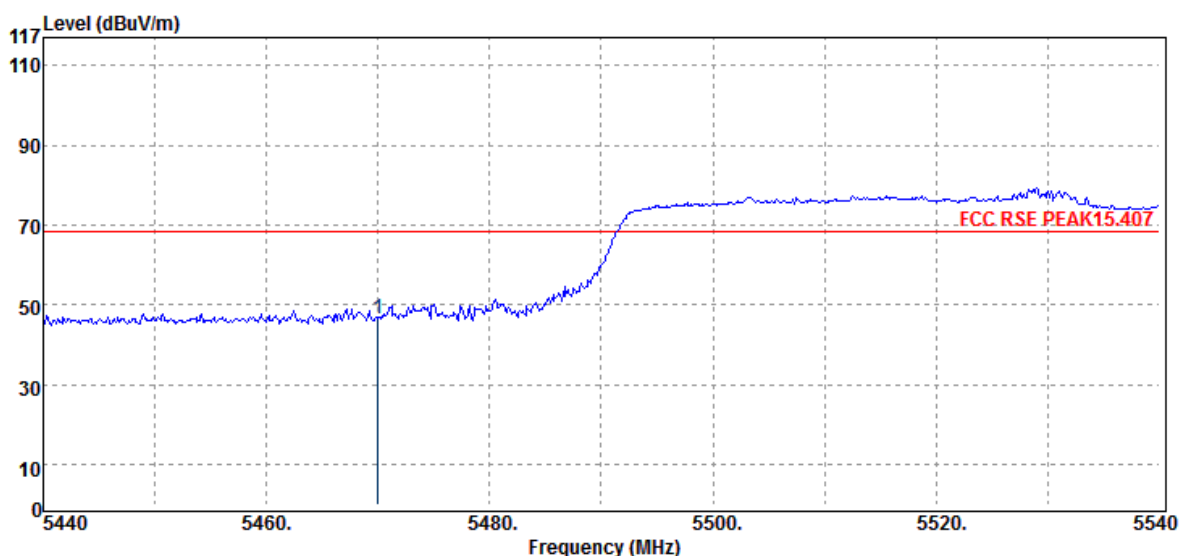
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	40.39	6.26	46.65	68.30	-21.65

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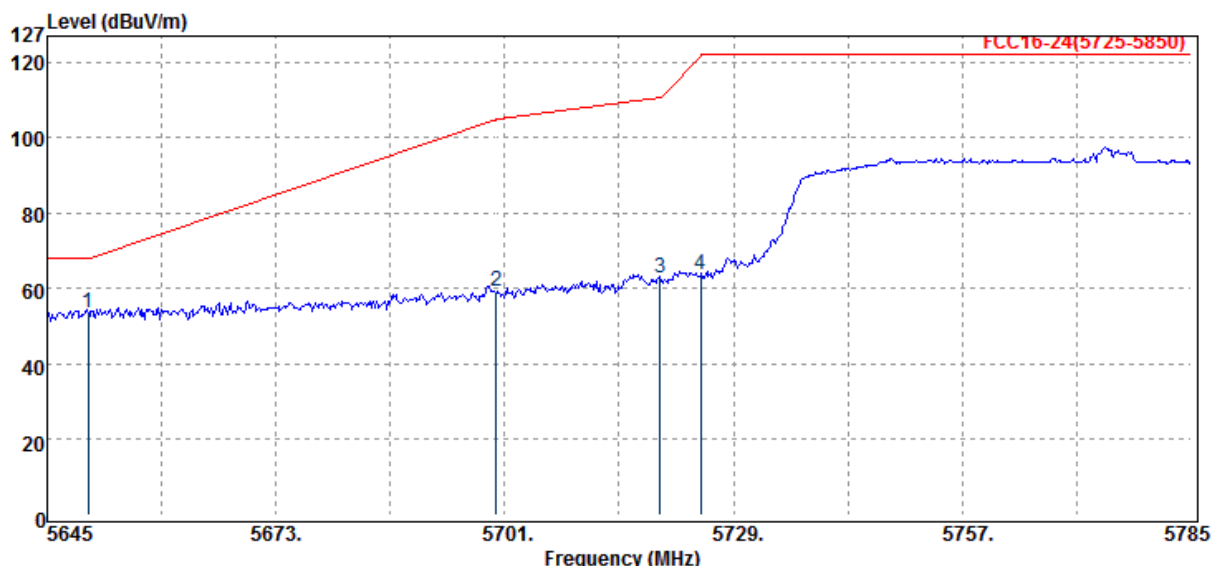
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Member of SGS Group

Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	E	Peak	47.01	6.48	53.49	68.23	-14.74
5700.00	E	Peak	52.61	6.67	59.28	105.23	-45.95
5720.00	E	Peak	56.18	6.60	62.78	110.83	-48.05
5725.00	E	Peak	57.08	6.59	63.67	122.23	-58.56

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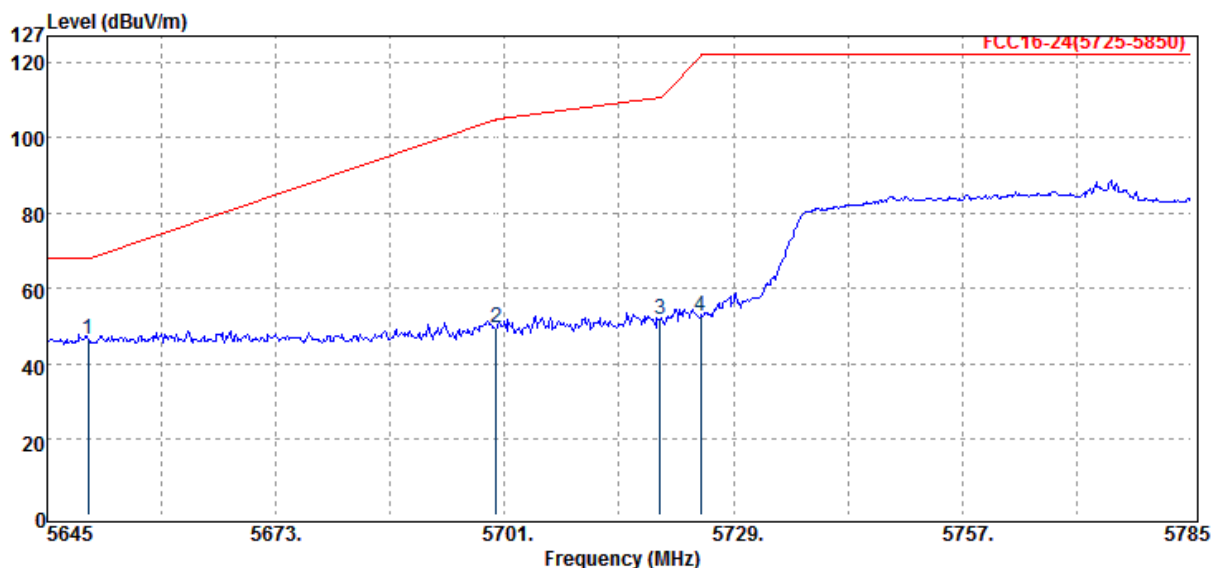
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Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	E	Peak	40.18	6.48	46.66	68.23	-21.57
5700.00	E	Peak	43.19	6.67	49.86	105.23	-55.37
5720.00	E	Peak	45.39	6.60	51.99	110.83	-58.84
5725.00	E	Peak	46.04	6.59	52.63	122.23	-69.60

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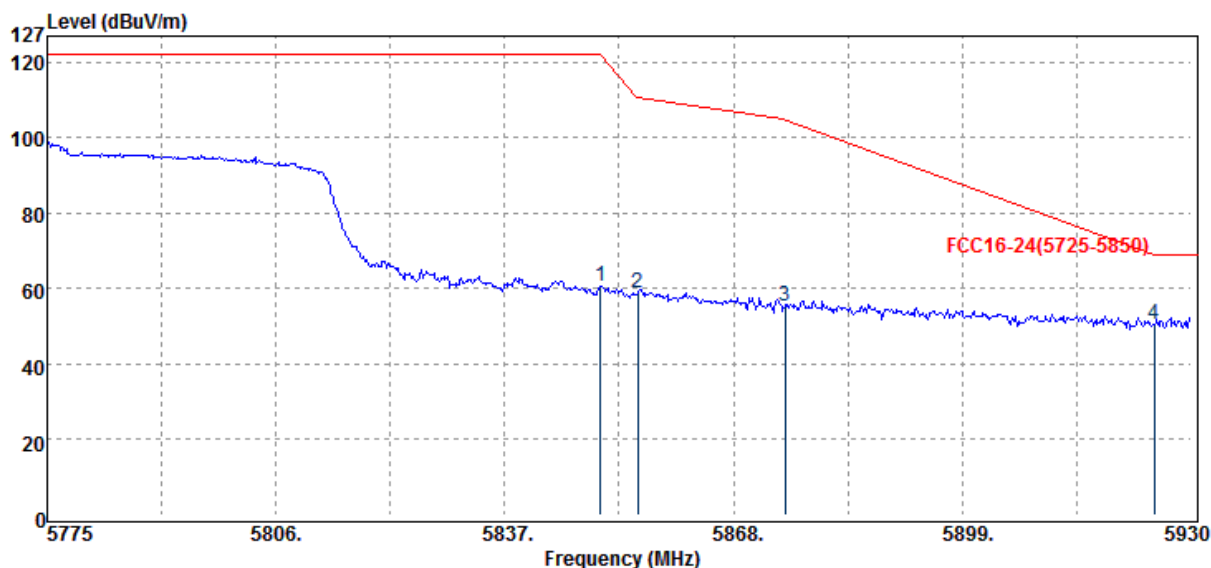
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Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	53.49	7.28	60.77	122.23	-61.46
5855.00	E	Peak	51.52	7.32	58.84	110.83	-51.99
5875.00	E	Peak	48.16	7.37	55.53	105.23	-49.70
5925.00	E	Peak	43.09	7.39	50.48	68.23	-17.75

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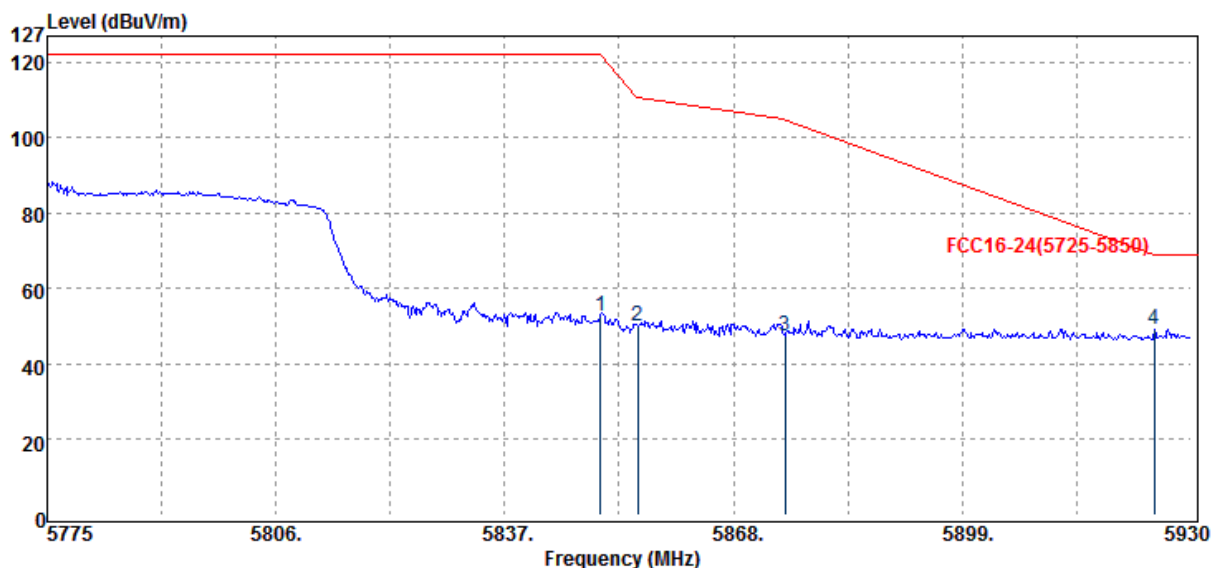
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Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2017-07-05
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Mike
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	45.67	7.28	52.95	122.23	-69.28
5855.00	E	Peak	42.67	7.32	49.99	110.83	-60.84
5875.00	E	Peak	40.26	7.37	47.63	105.23	-57.60
5925.00	E	Peak	41.85	7.39	49.24	68.23	-18.99

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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

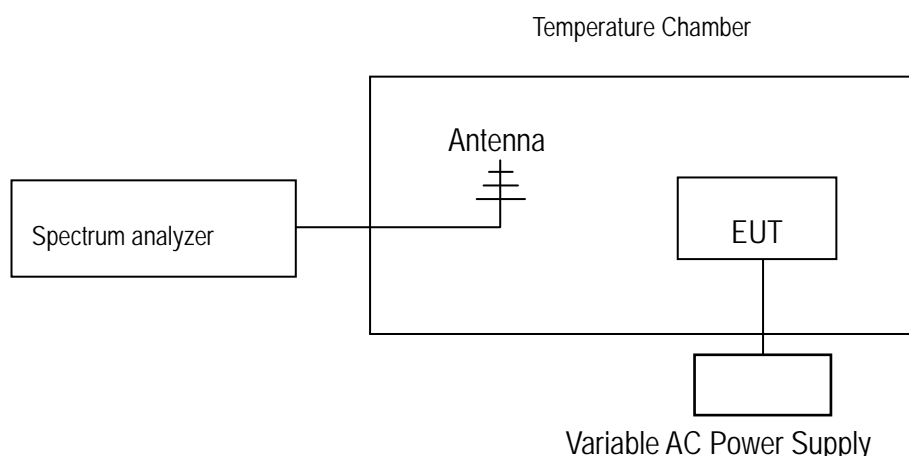
13.1 Standard Applicable

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:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018

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13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2017.07.20
Temperature	:17	Test By	Cooper
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	3.63V	36	5180	5,179.98486	0.00000292
		44	5220	5,219.95508	0.00000861
		48	5240	5,239.95508	0.00000857
		52	5260	5,259.96997	0.00000571
		60	5300	5,299.96997	0.00000567
		64	5320	5,319.95508	0.00000844
		100	5500	5,499.95483	0.00000821
		116	5580	5,579.95508	0.00000805
		140	5700	5,699.93994	0.00001054
		149	5745	5,744.96997	0.00000523
		157	5785	5,784.95508	0.00000777
		165	5825	5,824.97022	0.00000511
	2.97V	36	5180	5,179.98511	0.00000288
		44	5220	5,219.96997	0.00000575
		48	5240	5,239.95508	0.00000857
		52	5260	5,259.96997	0.00000571
		60	5300	5,299.96997	0.00000567
		64	5320	5,319.95508	0.00000844
		100	5500	5,499.98511	0.00000271
		116	5580	5,579.93994	0.00001076
		140	5700	5,699.93994	0.00001054
		149	5745	5,744.96997	0.00000523
		157	5785	5,784.95508	0.00000777
		165	5825	5,824.96997	0.00000516

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25	3.3V	36	5180	5,179.98486	0.00000292
		44	5220	5,219.95508	0.00000861
		48	5240	5,239.94019	0.00001141
		52	5260	5,259.93994	0.00001142
		60	5300	5,299.96997	0.00000567
		64	5320	5,319.95508	0.00000844
		100	5500	5,499.95508	0.00000817
		116	5580	5,579.93994	0.00001076
		140	5700	5,699.94019	0.00001049
		149	5745	5,744.96997	0.00000523
		157	5785	5,784.94019	0.00001034
		165	5825	5,824.95508	0.00000771
55	3.63V	36	5180	5,179.96997	0.00000580
		44	5220	5,219.95508	0.00000861
		48	5240	5,239.95508	0.00000857
		52	5260	5,259.96997	0.00000571
		60	5300	5,299.98511	0.00000281
		64	5320	5,319.96997	0.00000564
		100	5500	5,499.95508	0.00000817
		116	5580	5,579.95508	0.00000805
		140	5700	5,699.95508	0.00000788
		149	5745	5,744.95508	0.00000782
		157	5785	5,784.96997	0.00000519
		165	5825	5,824.93994	0.00001031
	2.97V	36	5180	5,179.96997	0.00000580
		44	5220	5,219.95483	0.00000865
		48	5240	5,239.94019	0.00001141
		52	5260	5,259.96997	0.00000571
		60	5300	5,299.98486	0.00000286
		64	5320	5,319.96997	0.00000564
		100	5500	5,499.95508	0.00000817
		116	5580	5,579.93994	0.00001076
		140	5700	5,699.95508	0.00000788
		149	5745	5,744.98486	0.00000263
		157	5785	5,784.93994	0.00001038
		165	5825	5,824.94019	0.00001027

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Operation Mode	802.11 n_HT40	Test Date	2017.07.20
Temperature	:17	Test By	Cooper
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	3.63V	38	5190	5,189.97485	0.00000485
		46	5230	5,229.92505	0.00001433
		54	5270	5,269.97485	0.00000477
		62	5310	5,309.97485	0.00000474
		102	5510	5,509.97485	0.00000456
		110	5550	5,549.94995	0.00000902
		134	5670	5,669.94995	0.00000883
		151	5755	5,754.97485	0.00000437
		159	5795	5,794.94995	0.00000864
	2.97V	38	5190	5,189.97485	0.00000485
		46	5230	5,229.97485	0.00000481
		54	5270	5,269.97485	0.00000477
		62	5310	5,309.97485	0.00000474
		102	5510	5,509.97485	0.00000456
		110	5550	5,549.94995	0.00000902
		134	5670	5,669.97485	0.00000443
		151	5755	5,754.97485	0.00000437
		159	5795	5,794.92505	0.00001293

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25	3.3V	38	5190	5,189.97485	0.00000485
		46	5230	5,229.94995	0.00000957
		54	5270	5,269.97485	0.00000477
		62	5310	5,309.94995	0.00000943
		102	5510	5,509.97485	0.00000456
		110	5550	5,549.94995	0.00000902
		134	5670	5,669.97485	0.00000443
		151	5755	5,754.97485	0.00000437
		159	5795	5,794.94995	0.00000864
55	3.63V	38	5190	5,189.97485	0.00000485
		46	5230	5,229.94995	0.00000957
		54	5270	5,269.97485	0.00000477
		62	5310	5,309.97485	0.00000474
		102	5510	5,509.97485	0.00000456
		110	5550	5,549.94995	0.00000902
		134	5670	5,669.97485	0.00000443
		151	5755	5,754.97485	0.00000437
		159	5795	5,794.94995	0.00000864
	2.97V	38	5190	5,189.97485	0.00000485
		46	5230	5,229.97485	0.00000481
		54	5270	5,269.94995	0.00000950
		62	5310	5,309.97485	0.00000474
		102	5510	5,509.97485	0.00000456
		110	5550	5,549.94995	0.00000902
		134	5670	5,669.94995	0.00000883
		151	5755	5,754.97485	0.00000437
		159	5795	5,794.94995	0.00000864

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Operation Mode	802.11 ac_VHT80	Test Date	2015.12.21
Temperature	:17	Test By	Cooper
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	3.63V	42	5210	5,209.75000	0.00004798
		58	5290	5,289.94995	0.00000946
		106	5530	5,529.94995	0.00000905
		122	5610	5,609.94995	0.00000892
		155	5775	5,774.79981	0.00003467
	2.97V	42	5210	5,209.94995	0.00000961
		58	5290	5,289.94995	0.00000946
		106	5530	5,529.94995	0.00000905
		122	5610	5,609.94995	0.00000892
		155	5775	5,774.79981	0.00003467
25	3.3V	42	5210	5,209.79981	0.00003843
		58	5290	5,289.94995	0.00000946
		106	5530	5,529.94995	0.00000905
		122	5610	5,609.94995	0.00000892
		155	5775	5,774.64990	0.00006062
55	3.63V	42	5210	5,209.75000	0.00004798
		58	5290	5,289.94995	0.00000946
		106	5530	5,529.94995	0.00000905
		122	5610	5,609.94995	0.00000892
		155	5775	5,774.75000	0.00004329
	2.97V	42	5210	5,209.84985	0.00002882
		58	5290	5,289.94995	0.00000946
		106	5530	5,529.94995	0.00000905
		122	5610	5,609.94995	0.00000892
		155	5775	5,774.64990	0.00006062

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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

PCB antenna designs are used.

The antenna is designed with permanent attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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