

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: Mobile Computer
Brand Name: Honeywell
Model No.: EDA50-011
Model Difference: N/A
FCC ID: HD5-EDA50011
IC: 1693B-EDA50011
Report No.: ER/2016/A0148
Issue Date: Jan. 10, 2017
FCC Rule Part: §15.407
IC Rule Part
Prepared for: Honeywell International Inc
Honeywell Sensing & Productivity Solutions
9680 OLD BAILES RD FORT MILL SC
29707 UNITED STATES
Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803



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VERIFICATION OF COMPLIANCE

Applicant: Honeywell International Inc
Honeywell Sensing & Productivity Solutions
9680 OLD BAILES RD FORT MILL SC 29707 UNITED STATES

Product Name: Mobile Computer

Brand Name: Honeywell

Model No.: EDA50-011

Model Difference: N/A

FCC ID: HD5-EDA50011

IC : 1693B-EDA50011

File Number: ER/2016/A0148

Date of test: Mar. 15, 2016 & Nov. 01, 2016 (Conducted),
Nov. 02, 2016 (Radiated)

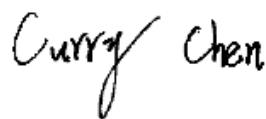
Date of EUT Received: Dec. 04, 2015

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:



Date:

Jan. 10, 2017

Curry Chen / Engineer

Prepared By:



Date:

Jan. 10, 2017

Allen Tsai / Engineer

Approved By:



Date:

Jan. 10, 2017

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2016/A0148	Rev.00	Initial creation of document	Jan. 10, 2017

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Mobile Computer
Brand Name:	Honeywell
Model No.:	EDA50-011
Model Difference:	N/A
Product SW/HW version:	N/A / N/A
Radio SW/HW version:	N/A / N/A
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Data Cable (USB):	Model No.:CBL-500-120-S00-03; Supplier: PRiMAX
Cradle (Optional):	Model No.:EDA50-HB; Supplier: N/A
Power Supply:	3.8Vdc from Rechargeable Li-ion Battery or 5Vdc from AC/DC Adapter
	Battery: Model No.: BAT-DEA50US; Supplier: SCUD
	Adapter: Model No.: ADS-12B-06 05010E; Supplier: HOHOR

Antenna Designation	Chip Antenna, Model No.: ACM3-5036, Supplier: INPAQ 5GHz Gain: 1.15 dBi (5150MHz-5250MHz) 5GHz Gain: 1.67 dBi (5250MHz-5350MHz) 5GHz Gain: 1.50 dBi (5470MHz-5725MHz) 5GHz Gain: 1.55 dBi (5725MHz-5850MHz)
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300Mbps

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FCC WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	11.94 dBm	OFDM
	5250~5350	4	11.99 dBm	
	5470~5725	12	11.87 dBm	
	5725~5850	5	11.96 dBm	
11n	HT20 5150~5250	4	11.85 dBm	OFDM
	HT20 5250~5350	4	11.99 dBm	
	HT20 5470~5725	12	11.85 dBm	
	HT20 5725~5850	5	11.91 dBm	
11n	HT40 5150~5250	2	11.92 dBm	OFDM
	HT40 5250~5350	2	11.85 dBm	
	HT40 5470~5725	6	11.95 dBm	
	HT40 5725~5850	2	8.19 dBm	

IC WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) / (EIRP)	Modulation Technology
11a	5150~5250	4	13.09 dBm (EIRP)	OFDM
	5250~5350	4	11.99 dBm	
	5500~5580	5	11.87 dBm	
	5700~5700	1	9.13 dBm	
	5745-5825	5	11.96 dBm	
11n	HT20 5150~5250	4	13.00 dBm (EIRP)	OFDM
	HT20 5250~5350	4	11.99 dBm	
	HT20 5500~5580	5	11.85 dBm	
	HT20 5660~5720	4	6.69 dBm	
	HT20 5745-5825	5	11.91 dBm	
11n	HT40 5150~5250	2	13.07 dBm (EIRP)	OFDM
	HT40 5250~5350	2	11.85 dBm	
	HT40 5510~5550	2	11.95 dBm	
	HT40 5670~5670	1	9.05 dBm	
	HT40 5755-5795	2	8.19 dBm	

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

RSS-247 issue 2 Feb 2017

RSS-Gen issue4 Nov. 2014

ANSI C63.10:2013

Note: 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

Canada Registration Number: 4620A-5

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 30MHz,. 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 hand-held 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 0.5dB, and 10dB attenuator.

$$= \text{RF cable loss (dB)} + \text{attenuation factor(dB)} = 10.5(\text{dB})$$

2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Conducted (Antenna Port) Configuration

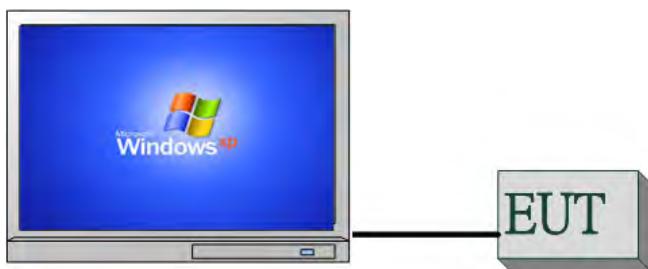


Fig 2-2 Conducted (AC power line) Configuration

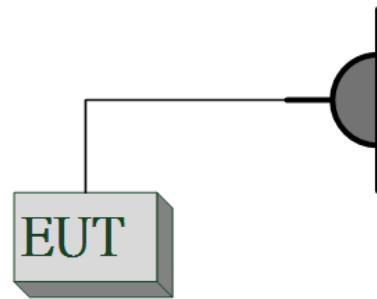


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2	Notebook	Lenovo	L412	LR-957X7	Shielded	Un-shielded

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3 SUMMARY OF TEST RESULT

FCC Rules	IC Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	RSS-247 §6.2.1~ 4 (1) RSS-Gen §6.6	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.407(g)	RSS-Gen §6.11	Frequency Stability	Compliant
§15.203 §15.407(a)	RSS- Gen §6.7 RSS- Gen §8.3	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

4 channels are provided for 802.11a, 802.11n-HT20

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

2 channels are provided for 802.11n-HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n-HT20

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

2 channels are provided for 802.11n-HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

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Operated band in 5470 MHz ~5725 MHz:

11 channels are provided for FCC 802.11a, 802.11n_HT20

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

5 channels are provided for 802.11n_HT40, 802

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

Note: Channels from 5600MHz ~ 5650MHz are disabled when this product is marketed withing Canada.

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n_HT20

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

2 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

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4.2 The Worst Test Modes and Channel Details

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

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6

RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6
802.11n_HT20				OFDM	MCS0
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6
802.11n_HT20				OFDM	MCS0
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11a	5500~5720	100 to 144	100,116,140	OFDM	6
802.11n_HT20				OFDM	MCS0
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS0
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6
802.11n_HT20				OFDM	MCS0
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0

Note:

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

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6
802.11n_HT20				OFDM	MCS0
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6
802.11n_HT20				OFDM	MCS0
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6
802.11n_HT20				OFDM	MCS0
802.11n_HT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS0
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6
802.11n_HT20				OFDM	MCS0
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0

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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: +/- 2.87 dB
	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: +/- 2.87 dB
	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	ESCI7	100760	05/04/2015	05/03/2016
LISN	SCHWARZB ECK	NSLK 8127	8127-649	05/15/2015	05/14/2016
LISN	FCC	FCC-LISN-50/250- 25-2-01	4034	03/12/2016	03/11/2017
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2015	11/25/2016

6.3. EUT Setup

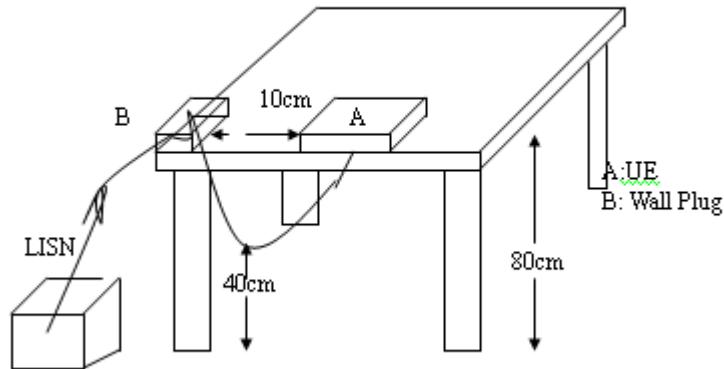
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz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

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6.4. Test SET-UP



6.5. Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

6.6. Measurement Result

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

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

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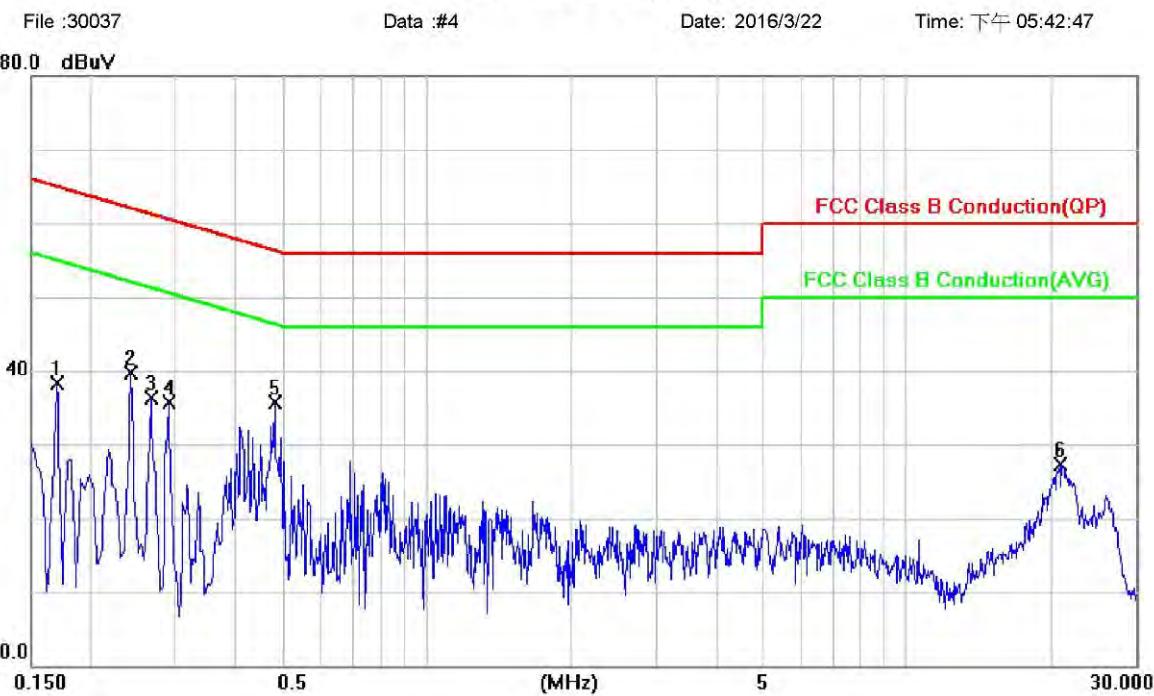
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Operation Mode:	Operation mode	Test By:	Tin
Temperature:	20	Humidity:	58 %

Site Conduction Room
 Limit: FCC Class B Conduction(QP)
 Mode: Operation
 Note: Adapter:ADS-12B-06

Phase: **L1** Temperature: 20 °C
 Power: AC 120V/60Hz Humidity: 58 %

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1700	38.24	0.10	38.34	64.96	-26.62	peak	
2		0.2420	39.55	0.10	39.65	62.03	-22.38	peak	
3		0.2660	36.16	0.11	36.27	61.24	-24.97	peak	
4		0.2900	35.67	0.11	35.78	60.52	-24.74	peak	
5 *		0.4820	35.49	0.12	35.61	56.30	-20.69	peak	
6		20.7340	26.91	0.45	27.36	60.00	-32.64	peak	

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Site Conduction Room

Phase: **N**

Temperature: 20 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 58 %

Mode: Operation

Note: Adapter:ADS-12B-06

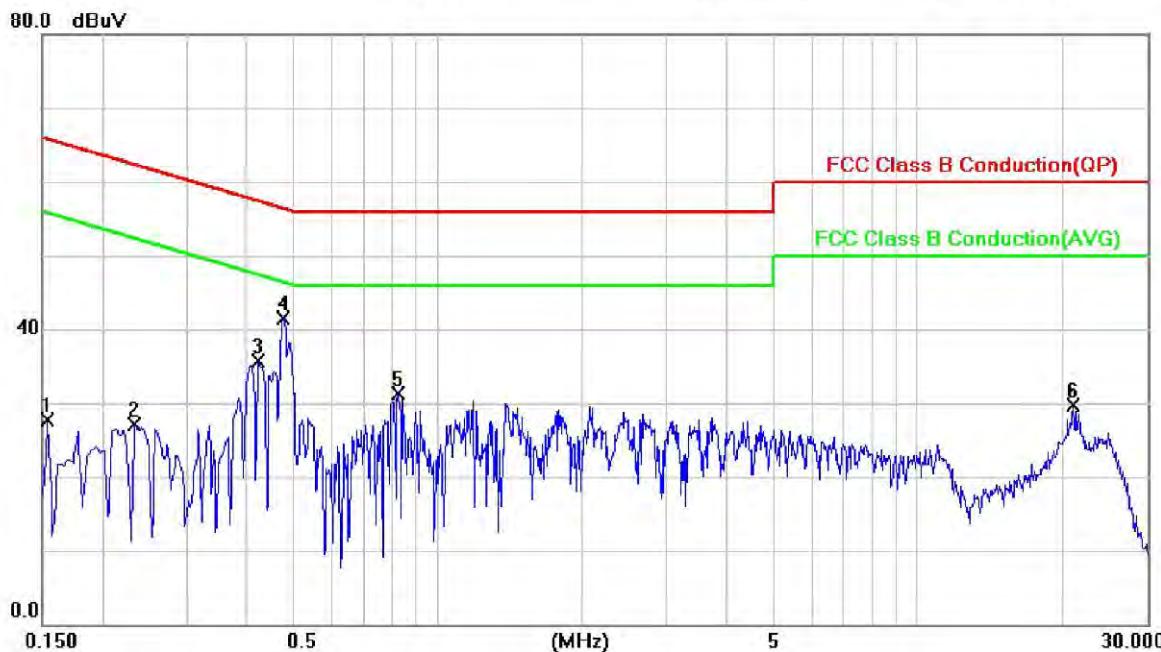
Conducted Emission

File :30037

Data #:5

Date: 2016/3/22

Time: 下午 05:44:14



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV				
1		0.1540	27.54	0.07	27.61	65.78	-38.17	peak	
2		0.2340	27.07	0.08	27.15	62.31	-35.16	peak	
3		0.4220	35.67	0.10	35.77	57.41	-21.64	peak	
4 *		0.4780	41.47	0.10	41.57	56.37	-14.80	peak	
5		0.8300	31.10	0.11	31.21	56.00	-24.79	peak	
6		20.9860	29.23	0.46	29.69	60.00	-30.31	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) $=10 \log (1/\text{Duty Cycle})$
802.11a	87.27	0.59
802.11n_20	86.36	0.64
802.11n_40	76.29	1.18

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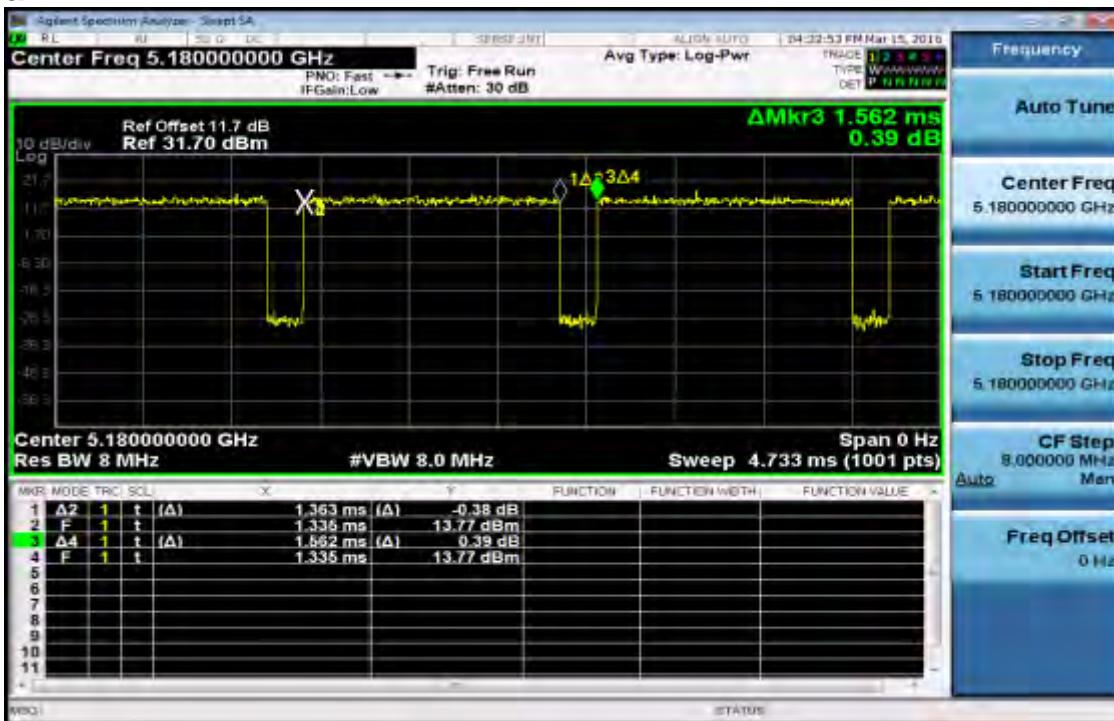
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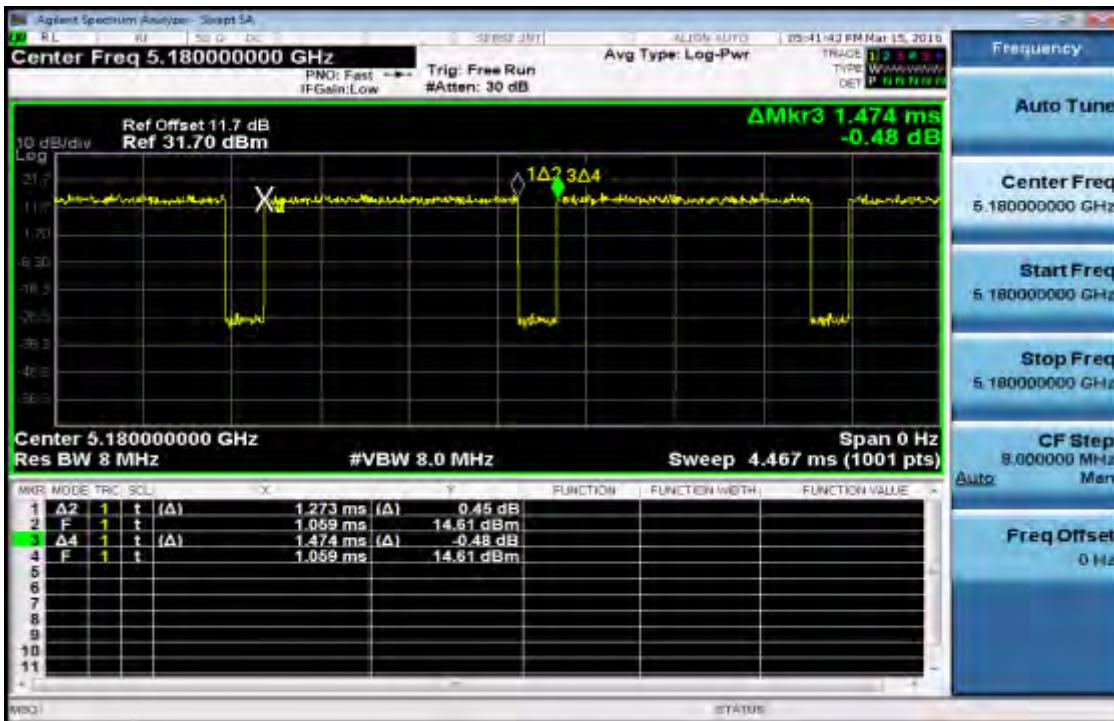
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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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802.11 n HT 40



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8 26DB & 6DB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

8.2 Measurement Procedure

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

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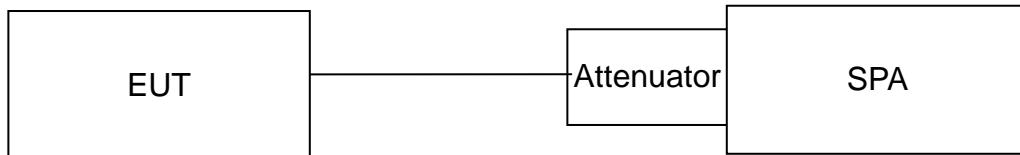
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8.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017

8.4 Test Set-up



8.5 Measurement Result

26dB Bandwidth

802.11a_Main			802.11n_HT20_Main			802.11n _HT40_Main		
Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.43	12.885	5180	19.86	12.980	5190	39.87	16.006
5220	19.43	12.885	5220	19.86	12.980	5230	43.18	16.353
5240	20.15	13.043	5240	20.01	13.012	5270	45.23	16.554
5260	19.68	12.940	5260	20.78	13.176	5310	39.74	15.992
5300	19.59	12.920	5300	21.12	13.247	5510	40.11	16.033
5320	19.69	12.942	5320	19.94	12.997	5550	38.94	15.904
5500	19.64	12.931	5500	19.88	12.984	5670	40.14	16.036
5580	19.26	12.847	5580	19.58	12.918			
5700	19.72	12.949	5700	19.96	13.002			

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802.11a_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.35	12.135
5785	16.05	12.055
5825	16.36	12.138

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.59	12.453
5785	16.93	12.287
5825	17.59	12.453

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.95	15.557
5795	35.85	15.545

99% Bandwidth

802.11a_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.659	12.216
5220	16.406	12.150
5240	16.488	12.172
5260	16.460	12.164
5300	16.548	12.187
5320	16.639	12.211
5500	16.555	12.189
5580	16.495	12.174
5700	16.574	12.194

802.11n_HT20_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.837	12.513
5220	17.573	12.448
5240	17.683	12.476
5260	17.616	12.459
5300	17.601	12.455
5320	17.719	12.484
5500	17.703	12.480
5580	17.592	12.453
5700	17.730	12.487

802.11n_HT40_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.250	15.593
5230	36.078	15.572
5270	36.183	15.585
5310	36.228	15.590
5510	36.341	15.604
5550	33.700	15.276
5670	34.572	15.387

802.11a_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.95	12.028
5785	14.42	11.591
5825	16.20	12.096

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.43	12.413
5785	17.13	12.338
5825	17.43	12.414

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.24	15.592
5795	35.75	15.533

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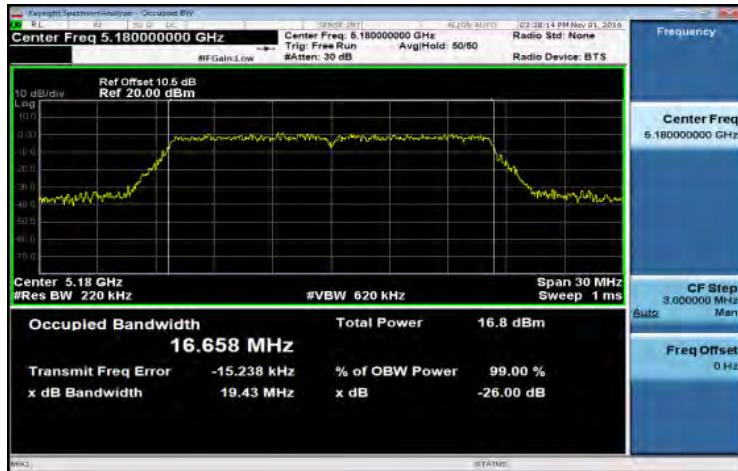
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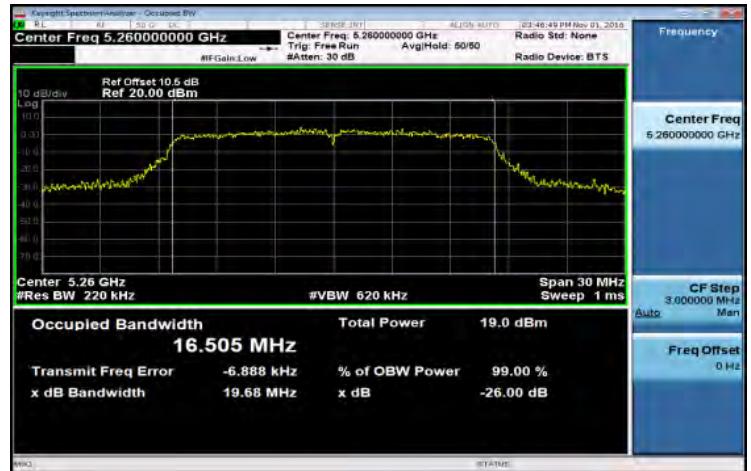
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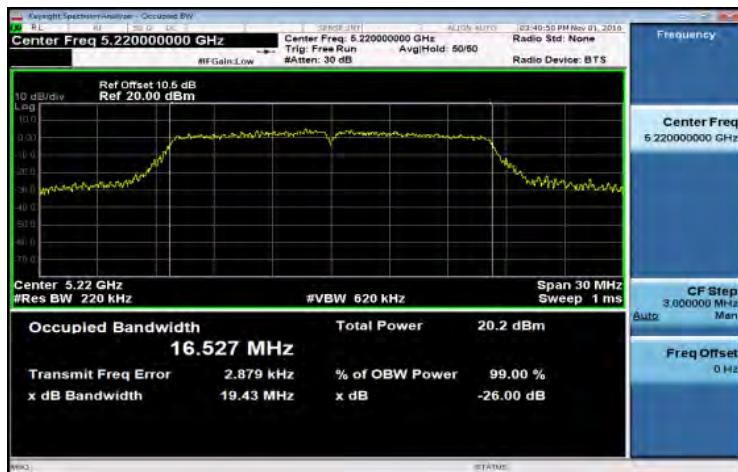
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FCC_802.11a_20MHz_Main_5260MHz



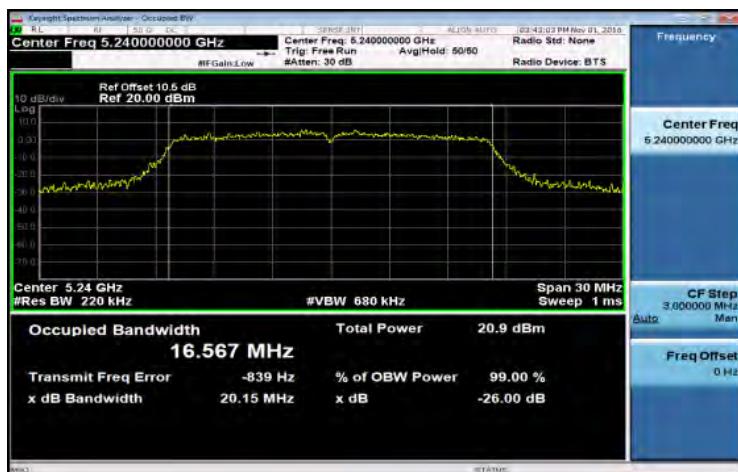
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FCC_802.11a_20MHz_Main_5300MHz



FCC_802.11a_20MHz_Main_5240MHz



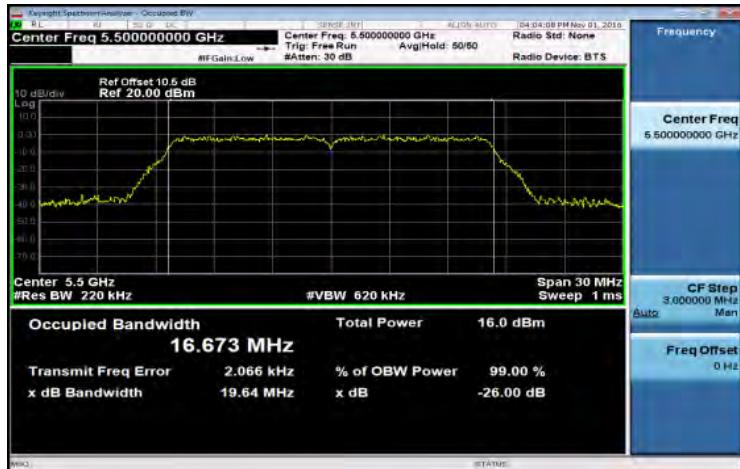
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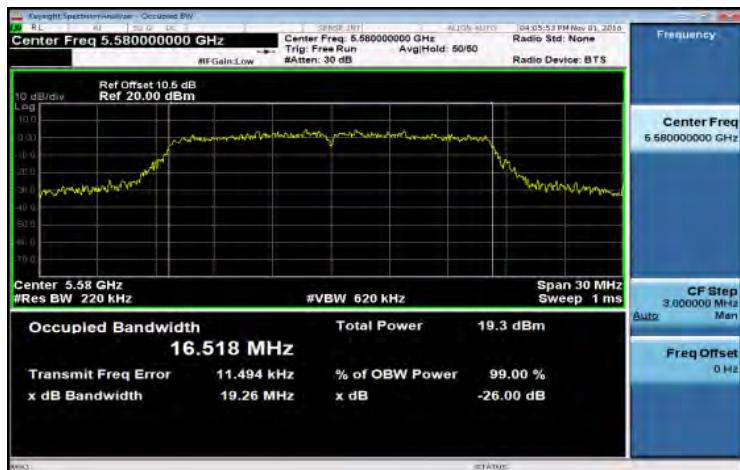
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FCC_802.11a_20MHz_Main_5745MHz



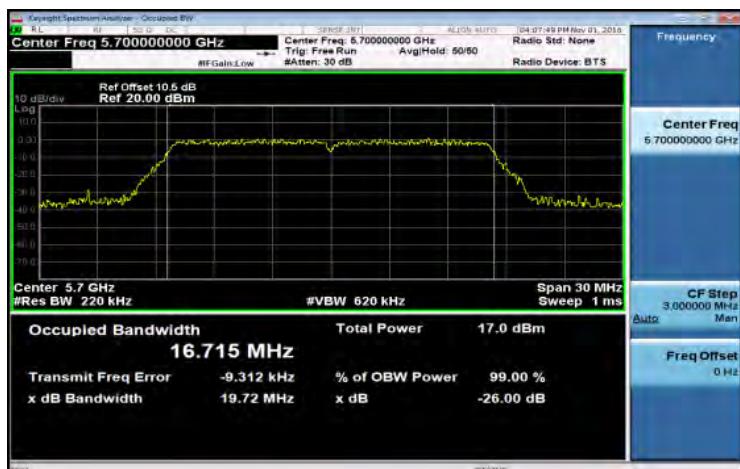
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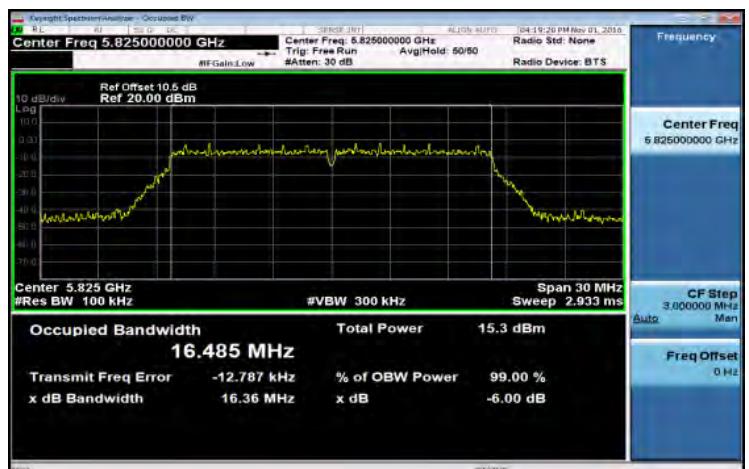
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FCC_802.11a_20MHz_Main_5700MHz



FCC_802.11a_20MHz_Main_5825MHz



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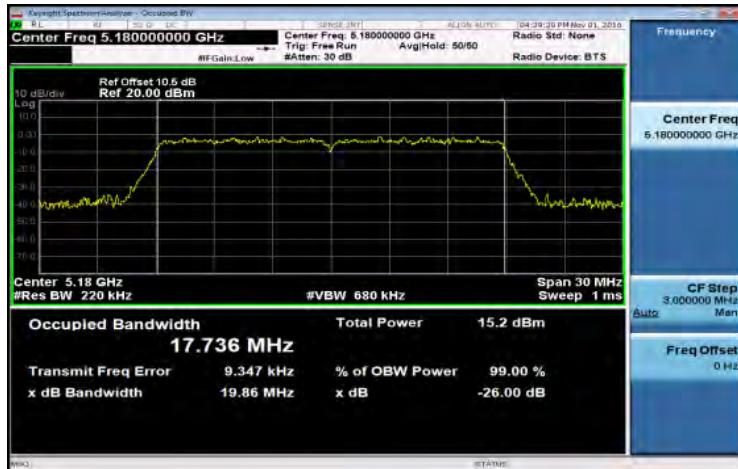
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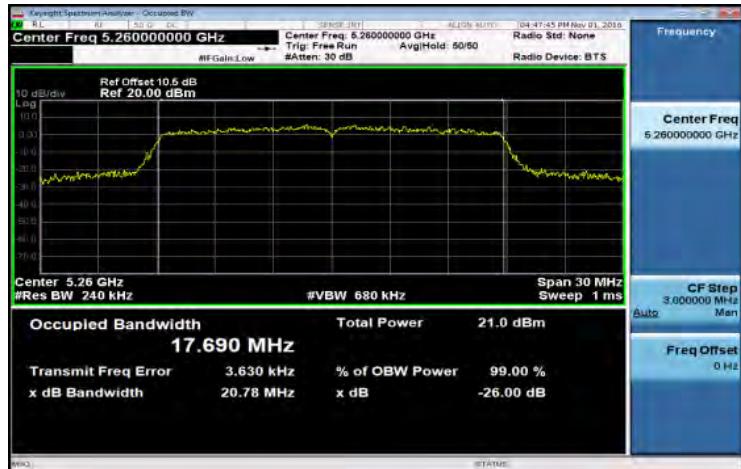
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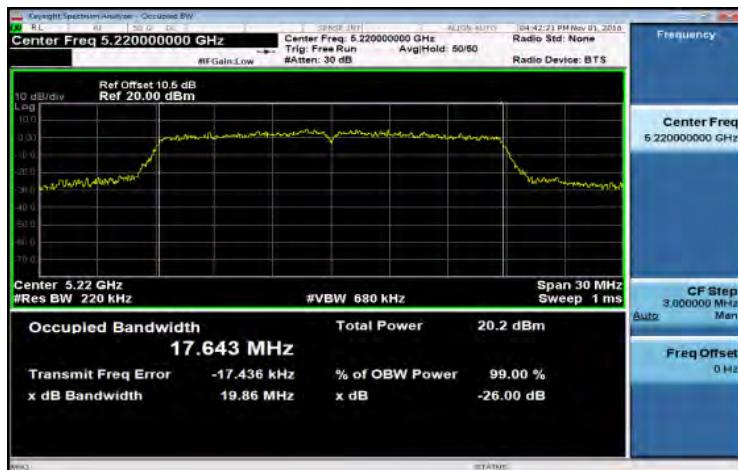
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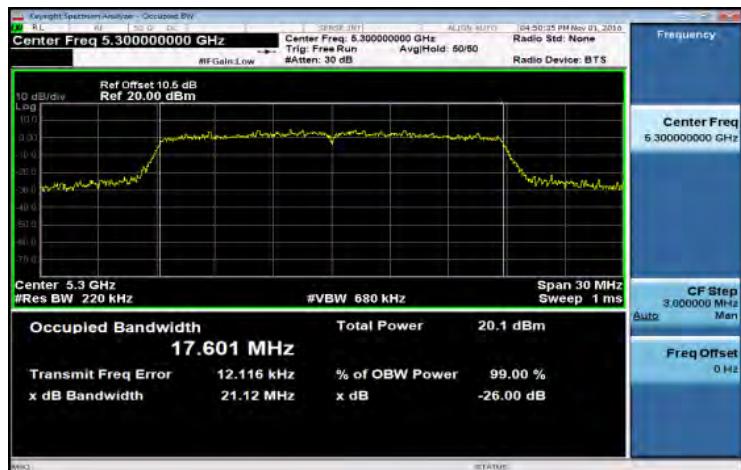
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FCC_802.11n_20MHz_Main_5220MHz



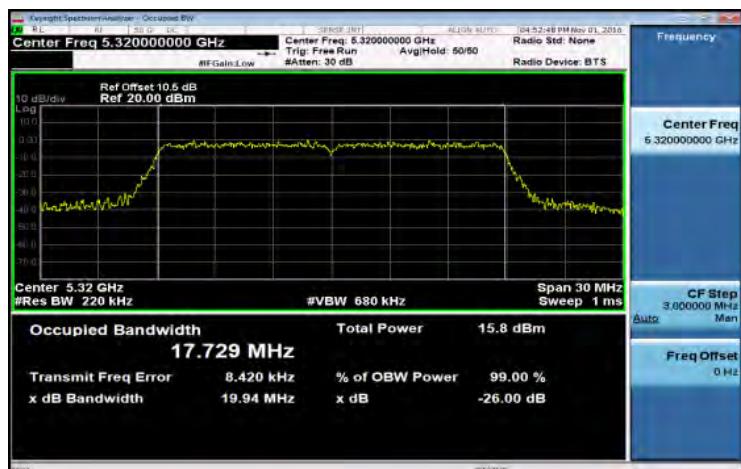
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FCC_802.11n_20MHz_Main_5240MHz



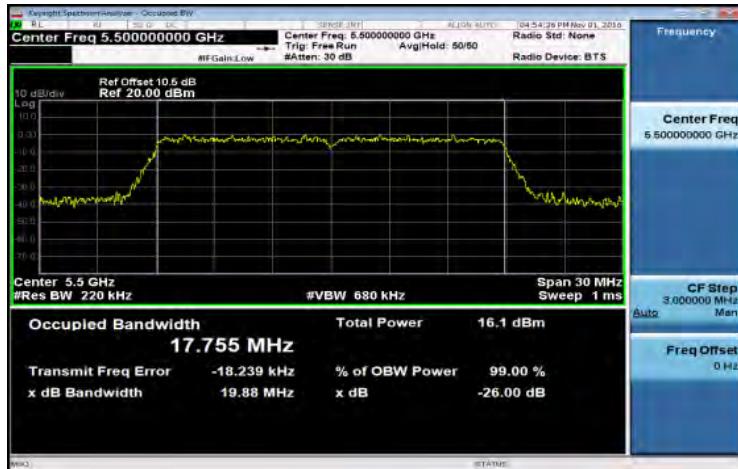
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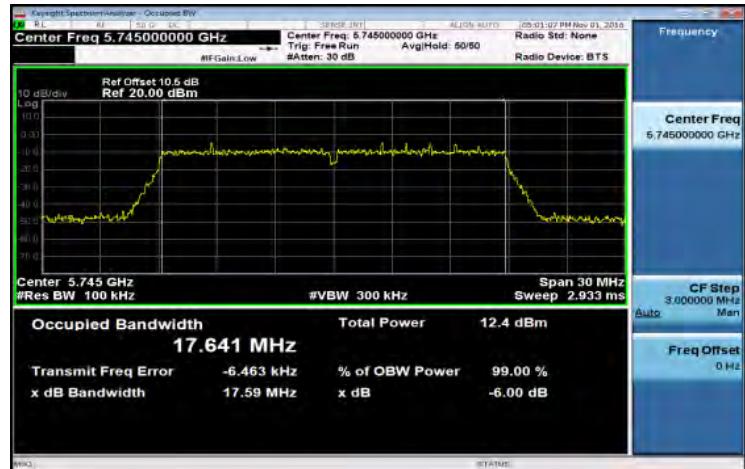
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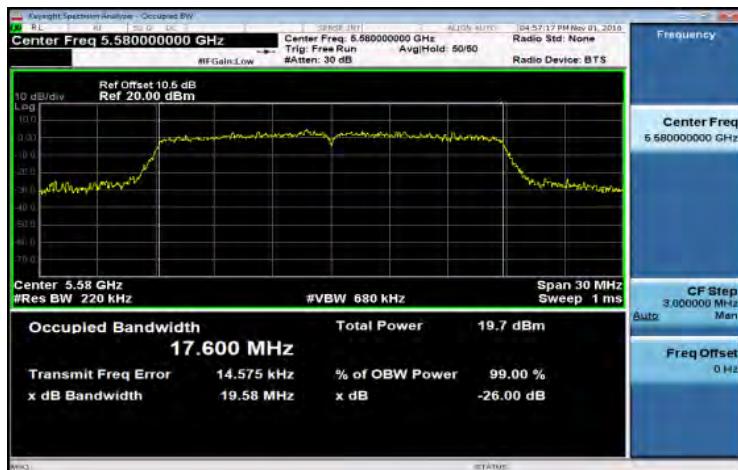
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FCC_802.11n_20MHz_Main_5745MHz



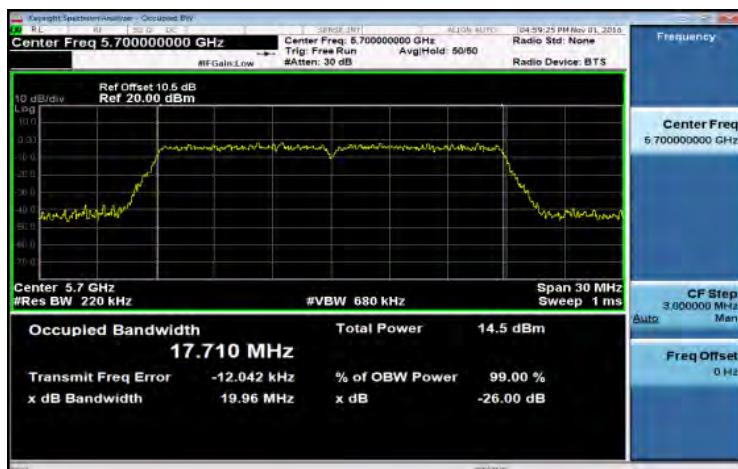
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FCC_802.11n_20MHz_Main_5700MHz



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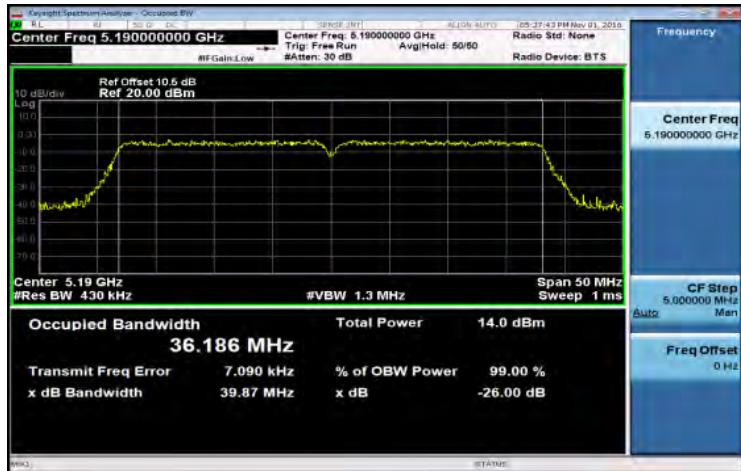


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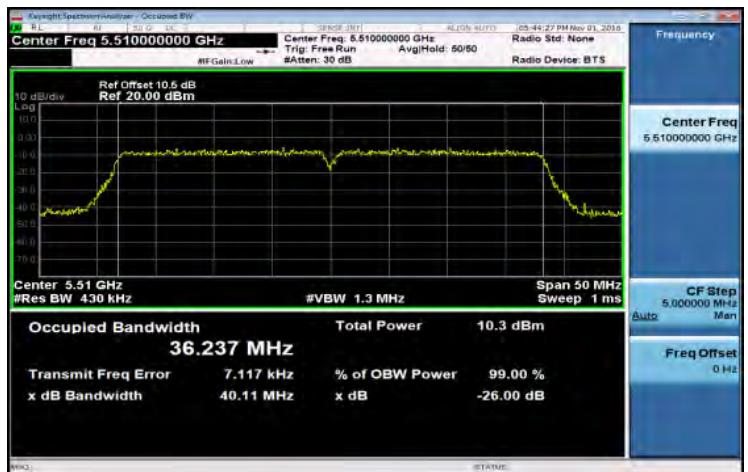
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FCC_802.11n_40MHz_Main_5230MHz



FCC_802.11n_40MHz_Main_5510MHz



FCC 802.11n 40MHz Main 5270MHz



FCC 802.11n 40MHz Main 5550MHz



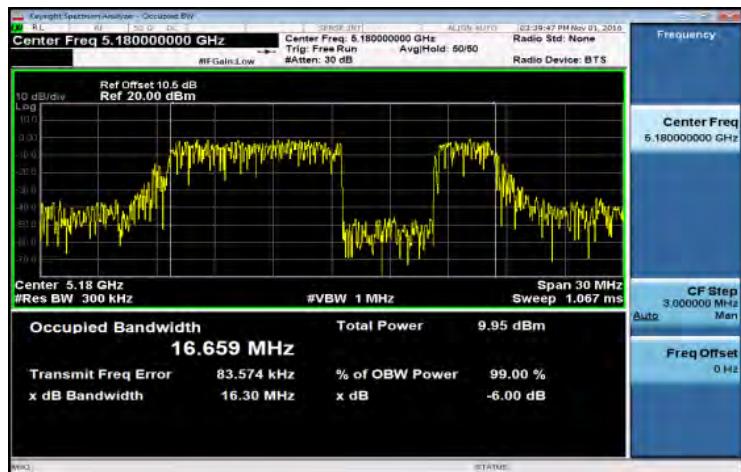
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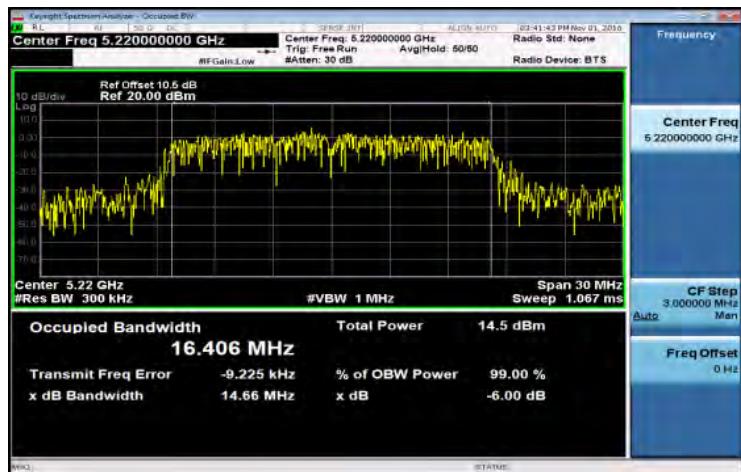
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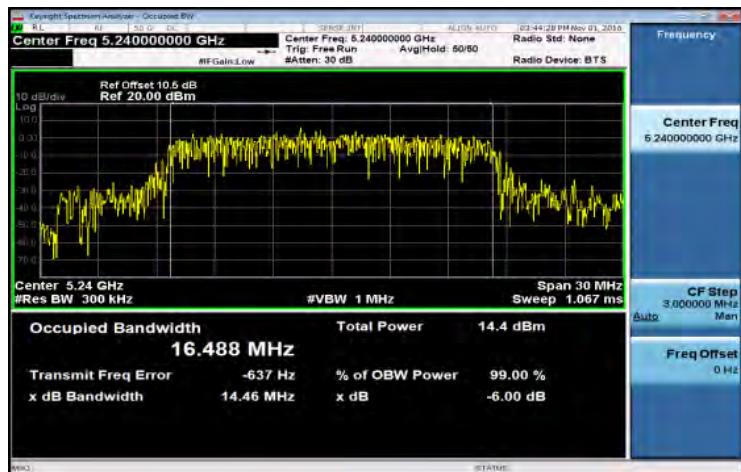
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FCC_802.11n_40MHz_Main_5795MHz



IC_802.11a_20MHz_Main_5240MHz

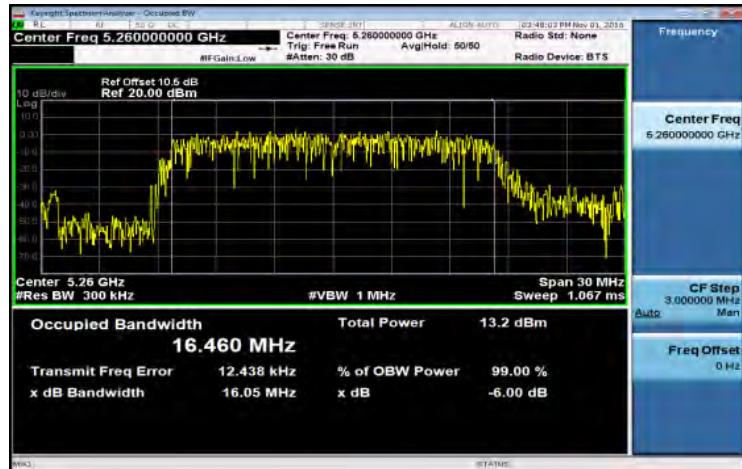


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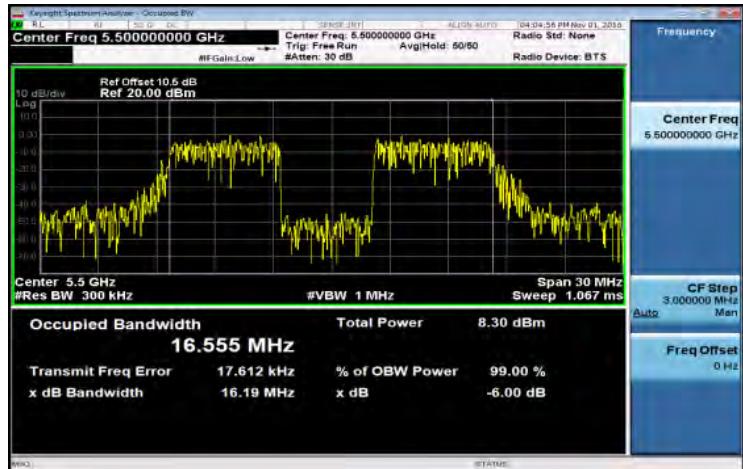
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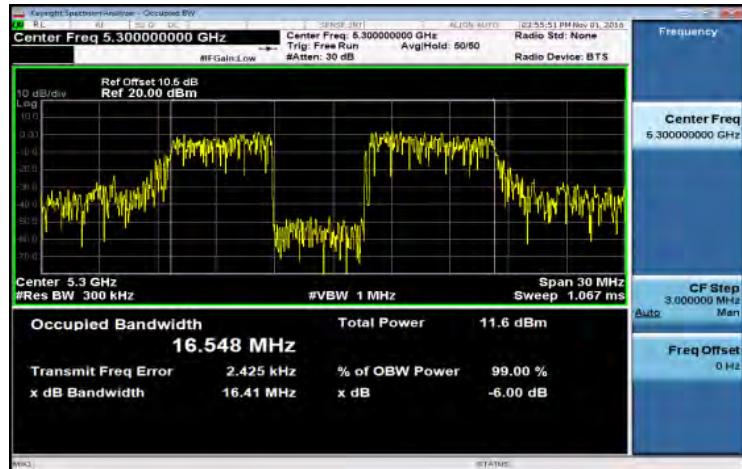
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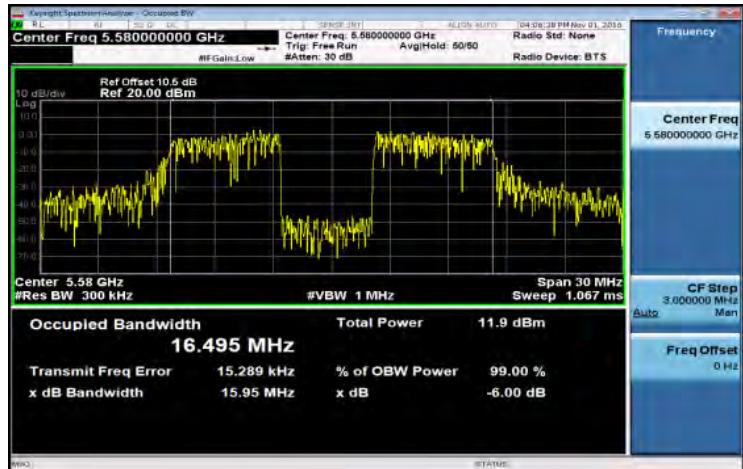
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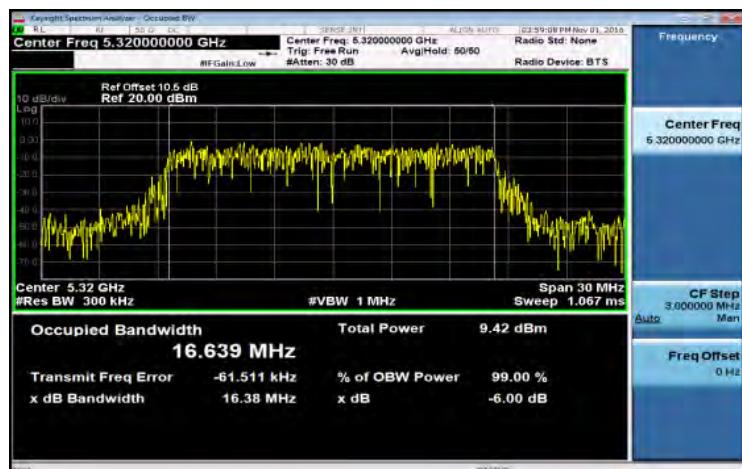
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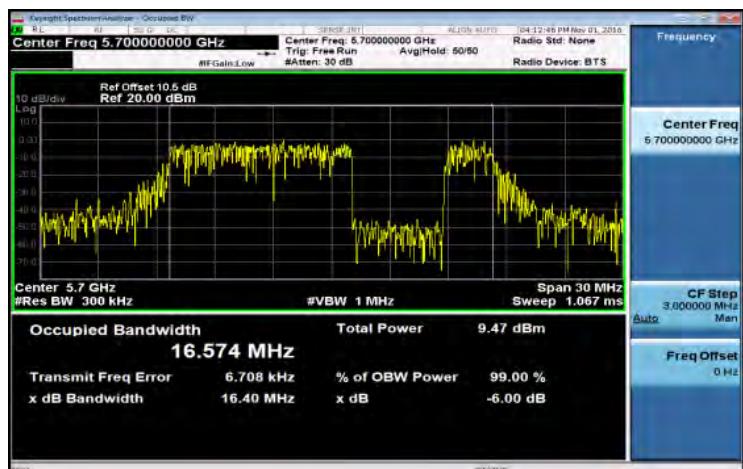
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IC 802.11a 20MHz Main 5320MHz



IC 802.11a 20MHz Main 5700MHz

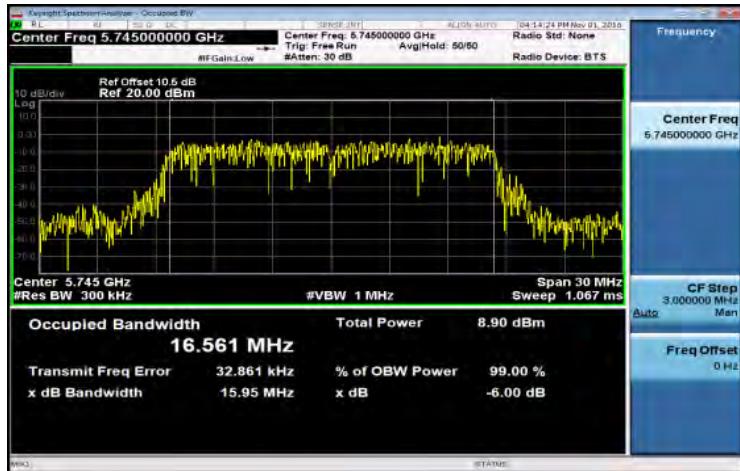


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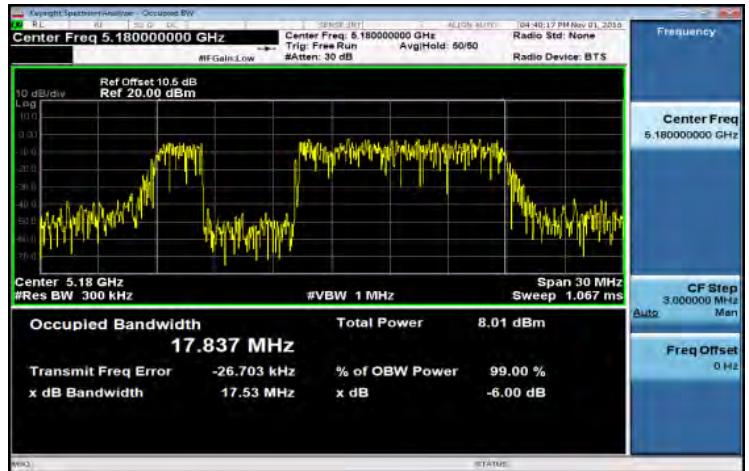
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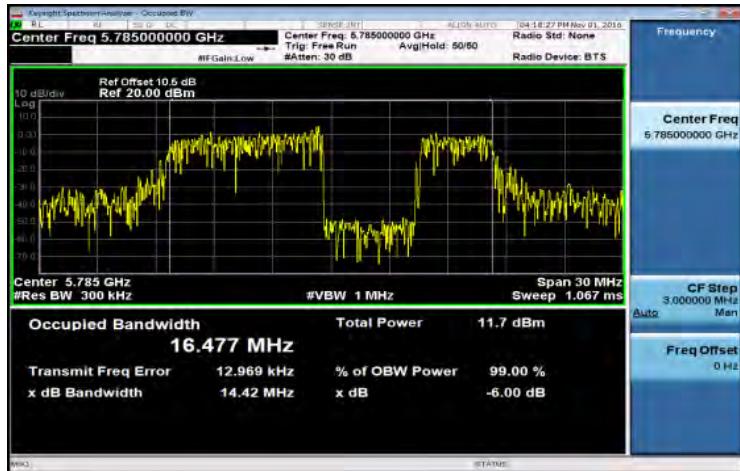
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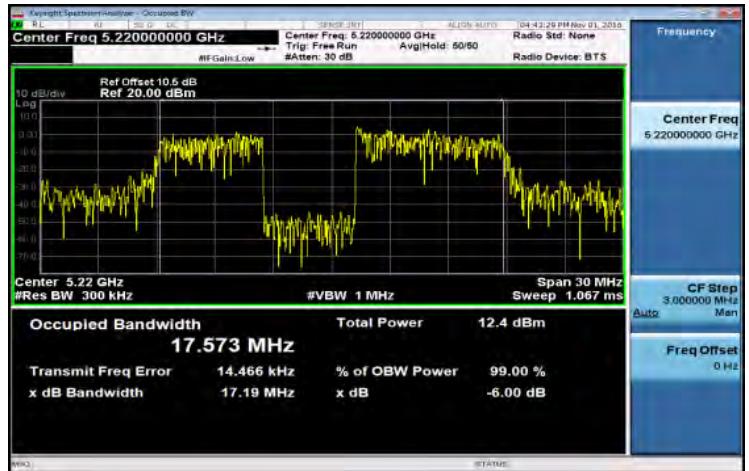
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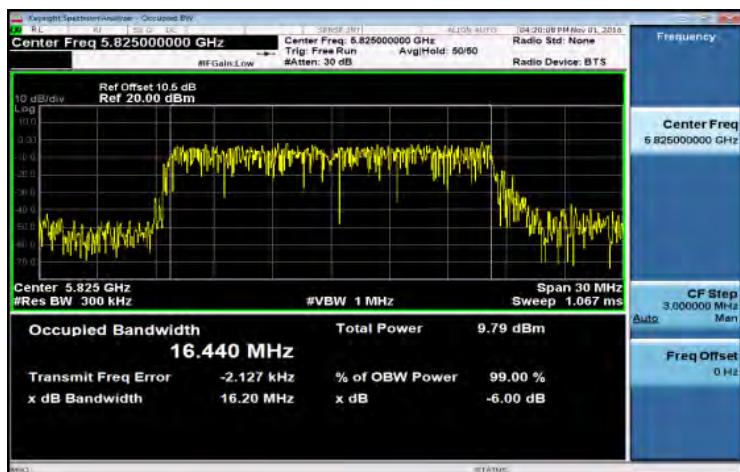
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IC_802.11n_20MHz_Main_5220MHz



IC 802.11a 20MHz Main 5825MHz

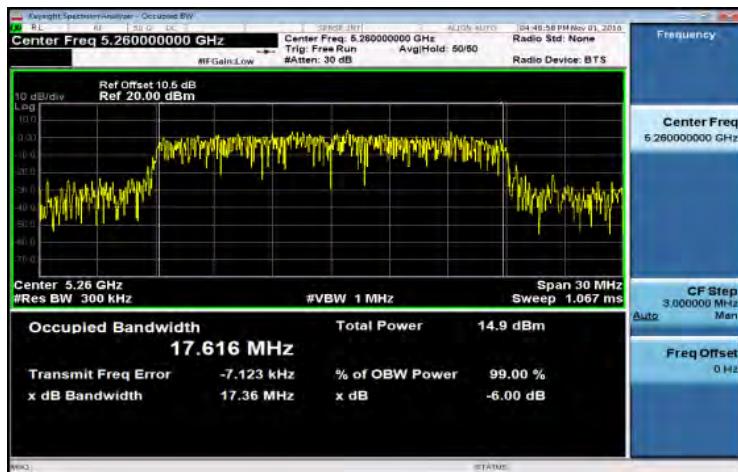


IC 802.11n 20MHz Main 5240MHz

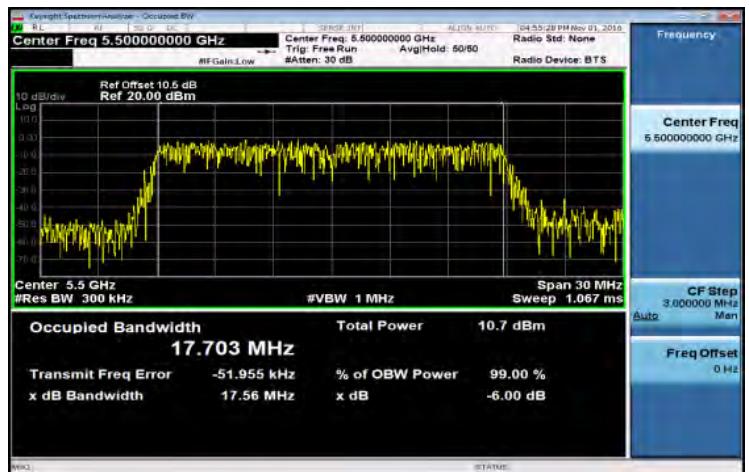


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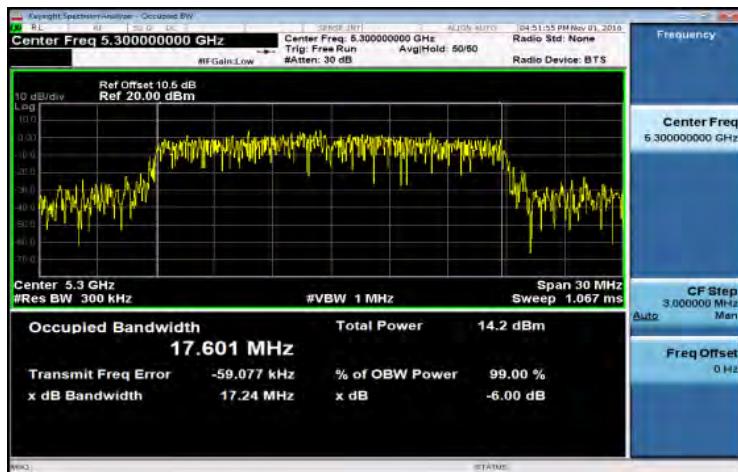
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IC_802.11n_20MHz_Main_5500MHz



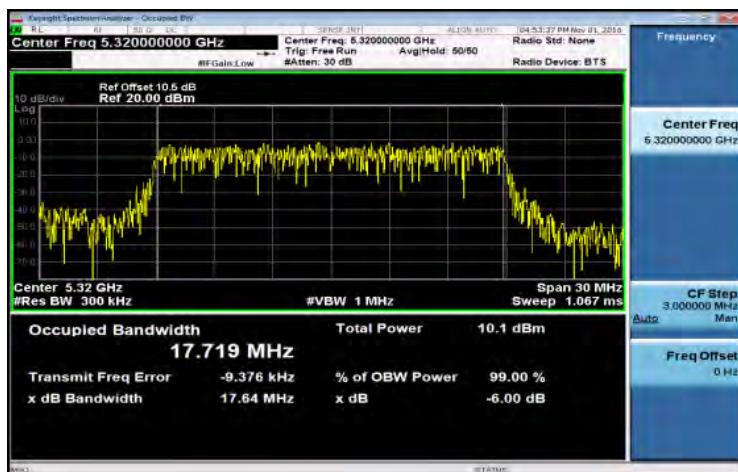
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IC_802.11n_20MHz_Main_5580MHz



IC_802.11n_20MHz_Main_5320MHz



IC_802.11n_20MHz_Main_5700MHz



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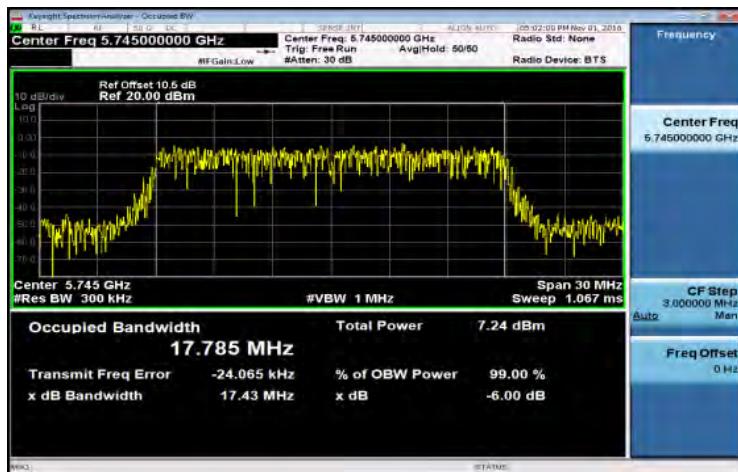
台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488

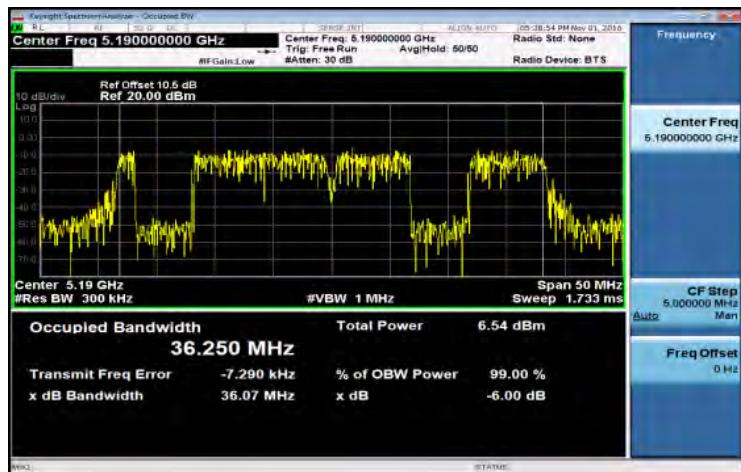
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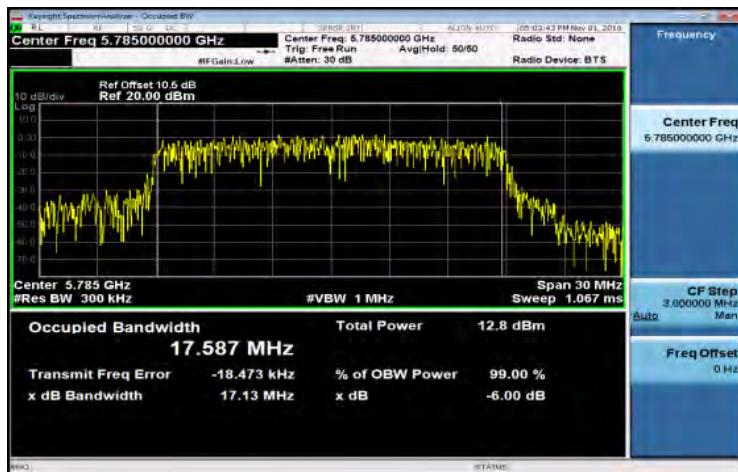
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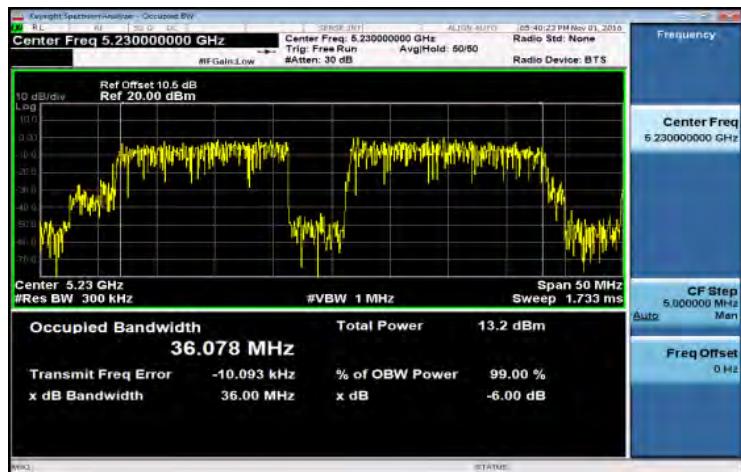
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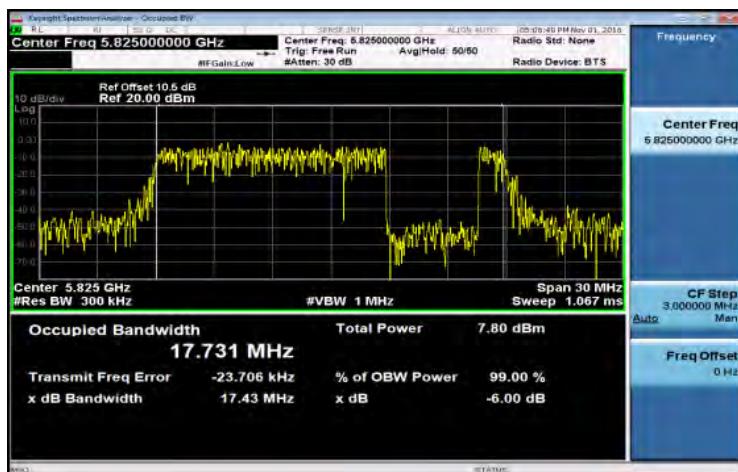
IC_802.11n_20MHz_Main_5785MHz



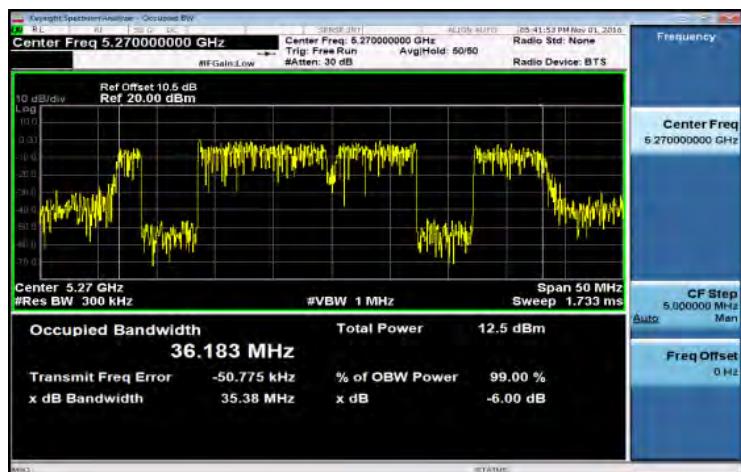
IC_802.11n_40MHz_Main_5230MHz



IC_802.11n_20MHz_Main_5825MHz



IC_802.11n_40MHz_Main_5270MHz

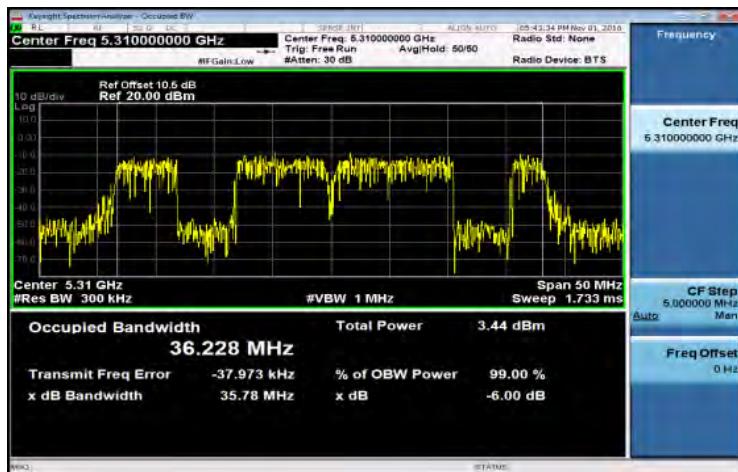


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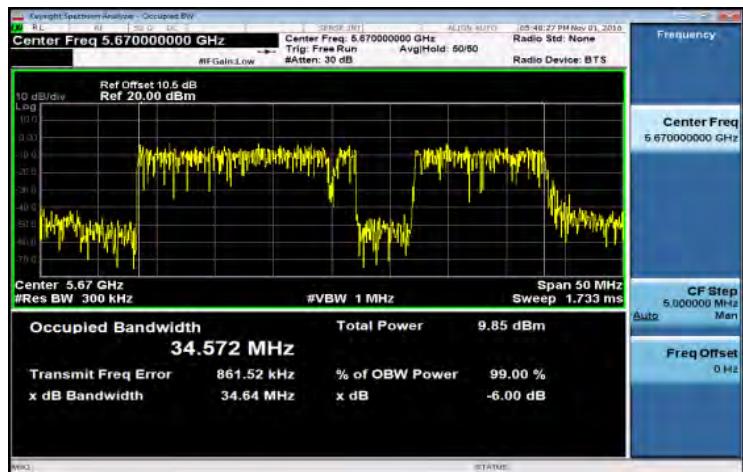
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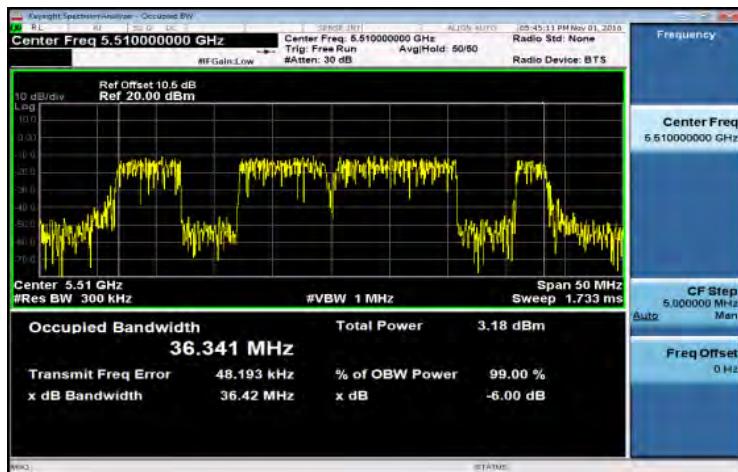
IC_802.11n_40MHz_Main_5310MHz



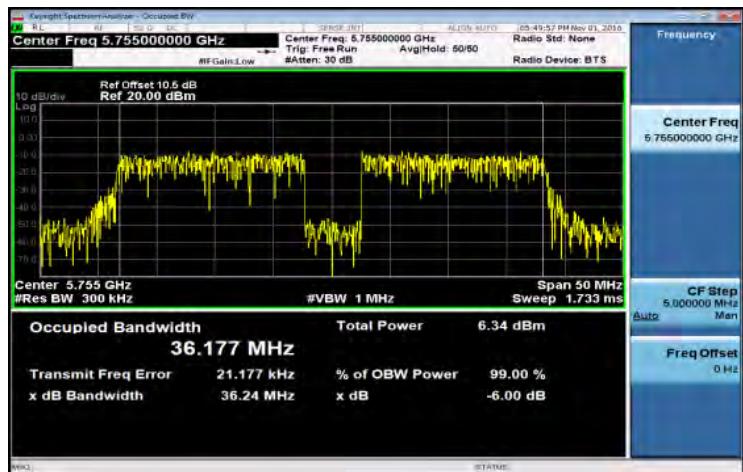
IC_802.11n_40MHz_Main_5670MHz



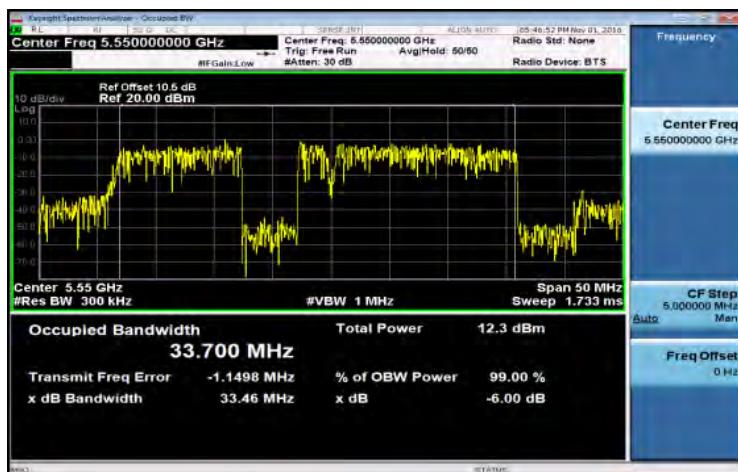
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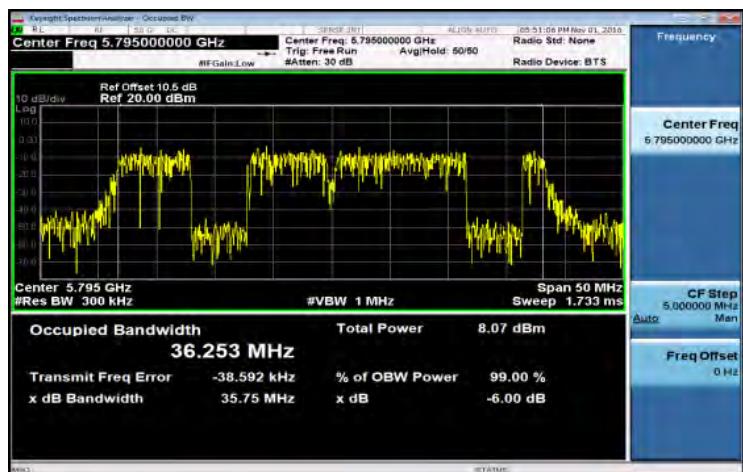
IC_802.11n_40MHz_Main_5755MHz



IC_802.11n_40MHz_Main_5550MHz



IC_802.11n_40MHz_Main_5795MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

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

IC

OPERATION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm
5470~5600 MHz and 5650~5725 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W

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

9.2 Measurement Procedure

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

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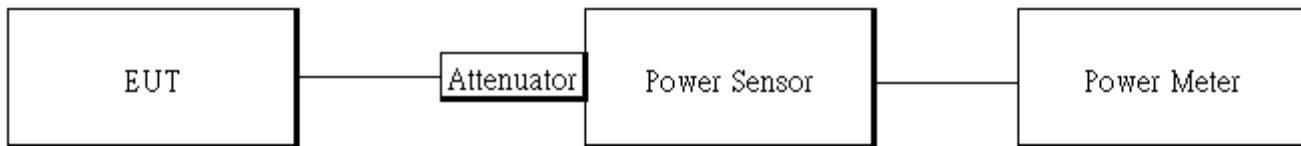
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9.3 Measurement Equipment Used

Refer to section 8.3 for details.

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017

9.4 Test Set-up



9.5 Measurement Result

FCC

802.11a_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	8.64	7.311	23.98	PASS
44	5220	MCS0	11.91	15.524	23.98	PASS
48	5240	MCS0	11.94	15.631	23.98	PASS
52	5260	MCS0	11.99	15.812	23.98 or 11+10log(B) = 23.94	PASS
60	5300	MCS0	11.98	15.776	23.98 or 11+10log(B) = 23.92	PASS
64	5320	MCS0	7.54	5.675	23.98 or 11+10log(B) = 23.94	PASS
100	5500	MCS0	8.08	6.427	23.98 or 11+10log(B) = 23.93	PASS
116	5580	MCS0	11.87	15.382	23.98 or 11+10log(B) = 23.85	PASS
140	5700	MCS0	9.13	8.185	23.98 or 11+10log(B) = 23.95	PASS
149	5745	MCS0	7.40	5.495	30	PASS
157	5785	MCS0	11.96	15.704	30	PASS
165	5825	MCS0	8.38	6.887	30	PASS

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802.11n_HT20_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	8.17	6.561	23.98	PASS
44	5220	MCS0	11.81	15.171	23.98	PASS
48	5240	MCS0	11.85	15.311	23.98	PASS
52	5260	MCS0	11.95	15.668	23.98 or $11 + 10\log(B) = 24.18$	PASS
60	5300	MCS0	11.99	15.812	23.98 or $11 + 10\log(B) = 24.25$	PASS
64	5320	MCS0	7.50	5.623	23.98 or $11 + 10\log(B) = 24.00$	PASS
100	5500	MCS0	8.51	7.096	23.98 or $11 + 10\log(B) = 23.98$	PASS
116	5580	MCS0	11.85	15.311	23.98 or $11 + 10\log(B) = 23.92$	PASS
140	5700	MCS0	6.69	4.667	23.98 or $11 + 10\log(B) = 24.00$	PASS
149	5745	MCS0	6.11	4.083	30	PASS
157	5785	MCS0	11.91	15.524	30	PASS
165	5825	MCS0	8.39	6.902	30	PASS

802.11n_HT40_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	5.55	3.589	23.98	PASS
46	5230	MCS0	11.92	15.560	23.98	PASS
54	5270	MCS0	11.85	15.311	23.98 or $11 + 10\log(B) = 27.55$	PASS
62	5310	MCS0	3.56	2.270	23.98 or $11 + 10\log(B) = 26.99$	PASS
102	5510	MCS0	3.69	2.339	23.98 or $11 + 10\log(B) = 27.03$	PASS
110	5550	MCS0	11.95	15.668	23.98 or $11 + 10\log(B) = 26.90$	PASS
134	5670	MCS0	9.05	8.035	23.98 or $11 + 10\log(B) = 27.04$	PASS
151	5755	MCS0	5.13	3.258	30	PASS
159	5795	MCS0	8.19	6.592	30	PASS

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IC

802.11a_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT	
52	5260	11.99	15.812	23.98	or $11+10\log(B) =$	23.16	PASS
60	5300	11.98	15.776	23.98	or $11+10\log(B) =$	23.19	PASS
64	5320	7.54	5.675	23.98	or $11+10\log(B) =$	23.21	PASS
100	5500	8.08	6.427	23.98	or $11+10\log(B) =$	23.19	PASS
116	5580	11.87	15.382	23.98	or $11+10\log(B) =$	23.17	PASS
140	5700	9.13	8.185	23.98	or $11+10\log(B) =$	23.19	PASS
149	5745	7.40	5.495		30		PASS
157	5785	11.96	15.704		30		PASS
165	5825	8.38	6.887		30		PASS

802.11n_HT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT	
52	5260	11.95	15.668	23.98	or $11+10\log(B) =$	23.46	PASS
60	5300	11.99	15.812	23.98	or $11+10\log(B) =$	23.46	PASS
64	5320	7.50	5.623	23.98	or $11+10\log(B) =$	23.48	PASS
100	5500	8.51	7.096	23.98	or $11+10\log(B) =$	23.48	PASS
116	5580	11.85	15.311	23.98	or $11+10\log(B) =$	23.45	PASS
140	5700	6.69	4.667	23.98	or $11+10\log(B) =$	23.49	PASS
149	5745	6.11	4.083		30		PASS
157	5785	11.91	15.524		30		PASS
165	5825	8.39	6.902		30		PASS

802.11n_HT40_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT	
54	5270	11.85	15.311	23.98	or $11+10\log(B) =$	26.59	PASS
62	5310	3.56	2.270	23.98	or $11+10\log(B) =$	26.59	PASS
102	5510	3.69	2.339	23.98	or $11+10\log(B) =$	26.60	PASS
110	5550	11.95	15.668	23.98	or $11+10\log(B) =$	26.28	PASS
134	5670	9.05	8.035	23.98	or $11+10\log(B) =$	26.39	PASS
151	5755	5.13	3.258		30		PASS
159	5795	8.19	6.592		30		PASS

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802.11a_Main

CH	Freq. (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	8.64	1.150	9.79	9.528	23.01	or $10+10\log(B)=$	22.22
44	5220	11.91	1.150	13.06	20.230	23.01	or $10+10\log(B)=$	22.15
48	5240	11.94	1.150	13.09	20.370	23.01	or $10+10\log(B)=$	22.17
52	5260	11.99	1.670	13.66	23.227	30	or $17+10\log(B)=$	29.16
60	5300	11.98	1.670	13.65	23.174	30	or $17+10\log(B)=$	29.19
64	5320	7.54	1.670	9.21	8.337	30	or $17+10\log(B)=$	29.21
100	5500	8.08	1.500	9.58	9.078	30	or $17+10\log(B)=$	29.19
116	5580	11.87	1.500	13.37	21.727	30	or $17+10\log(B)=$	29.17
140	5700	9.13	1.500	10.63	11.561	30	or $17+10\log(B)=$	29.19

802.11n_HT20_Main

CH	Freq. (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	8.17	1.150	9.32	8.551	23.01	or $10+10\log(B)=$	22.51
44	5220	11.81	1.150	12.96	19.770	23.01	or $10+10\log(B)=$	22.45
48	5240	11.85	1.150	13.00	19.953	23.01	or $10+10\log(B)=$	22.48
52	5260	11.95	1.670	13.62	23.014	30	or $17+10\log(B)=$	29.46
60	5300	11.99	1.670	13.66	23.227	30	or $17+10\log(B)=$	29.46
64	5320	7.50	1.670	9.17	8.260	30	or $17+10\log(B)=$	29.48
100	5500	8.51	1.500	10.01	10.023	30	or $17+10\log(B)=$	29.48
116	5580	11.85	1.500	13.35	21.627	30	or $17+10\log(B)=$	29.45
140	5700	6.69	1.500	8.19	6.592	30	or $17+10\log(B)=$	29.49

802.11n_HT40_Main

CH	Freq. (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	5.55	1.150	6.70	4.677	23.01	or $10+10\log(B)=$	25.59
46	5230	11.92	1.150	13.07	20.277	23.01	or $10+10\log(B)=$	25.57
54	5270	11.85	1.670	13.52	22.491	30	or $17+10\log(B)=$	32.59
62	5310	3.56	1.670	5.23	3.334	30	or $17+10\log(B)=$	32.59
102	5510	3.69	1.500	5.19	3.304	30	or $17+10\log(B)=$	32.60
110	5550	11.95	1.500	13.45	22.131	30	or $17+10\log(B)=$	32.28
134	5670	9.05	1.500	10.55	11.350	30	or $17+10\log(B)=$	32.39

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10 PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERATION Band	EUT CATEGORY		LIMIT
U-NII-1	Access Point (Mater 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

IC

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

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

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10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**

Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

For U-NII-3 Band:

Set RBW=500 kHz, VBW \geq 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

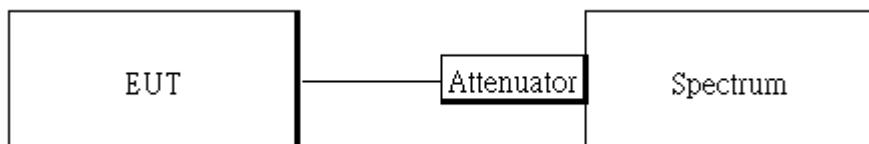
5. User the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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

10.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/06/2016	01/05/2017
Coaxial Cable	HUBER+SUHN ER	SUCOFLEX 102	23670/2	01/06/2016	01/05/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/06/2016	01/05/2017

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE				POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-4.31	11	-15.31	5180	-5.46	11	-16.46
5220	1.72	11	-9.28	5220	-1.10	11	-12.10
5240	-1.15	11	-12.15	5240	0.22	11	-10.78
5260	-2.04	11	-13.04	5260	1.89	11	-9.11
5300	-1.73	11	-12.73	5300	-0.86	11	-11.86
5320	-5.20	11	-16.20	5320	-4.86	11	-15.86
5500	-5.84	11	-16.84	5500	-6.21	11	-17.21
5580	-1.16	11	-12.16	5580	-2.22	11	-13.22
5700	-2.36	11	-13.36	5700	-7.07	11	-18.07
5745	2.05	30	-27.95	5745	0.32	30	-29.68
5785	7.22	30	-22.78	5785	6.62	30	-23.38
5825	4.06	30	-25.94	5825	3.09	30	-26.91

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-14.04	11	-25.04
5230	-9.16	11	-20.16
5270	-8.31	11	-19.31
5310	-16.73	11	-27.73
5510	-17.29	11	-28.29
5550	-10.34	11	-21.34
5670	-11.96	11	-22.96
5755	-2.72	30	-32.72
5795	-1.14	30	-31.14

EIRP

EIRP spectral density 802.11a MODE						EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-4.31	1.15	-3.16	10	-14.31	5180	-5.46	1.15	-4.31	10	-15.46
5220	1.72	1.15	2.87	10	-8.28	5220	-1.10	1.15	0.05	10	-11.10
5240	-1.15	1.15	0.00	10	-11.15	5240	0.22	1.15	1.37	10	-9.78

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EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-14.04	1.15	-12.89	10	-24.04
5220	-9.16	1.15	-8.01	10	-19.16

Note:

S/ISO offset= 10.3 dB

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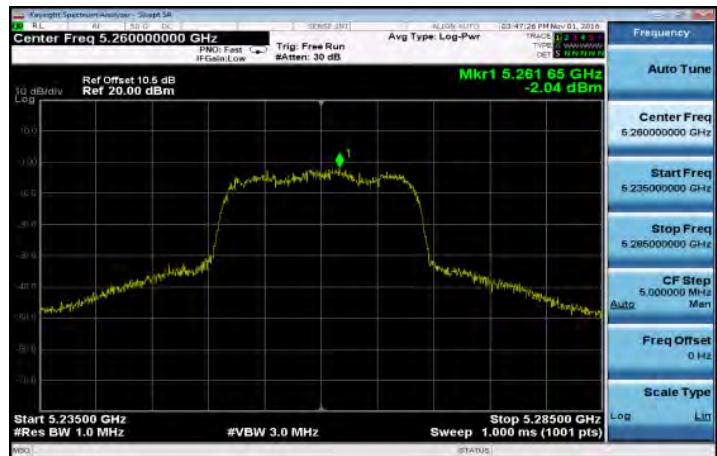
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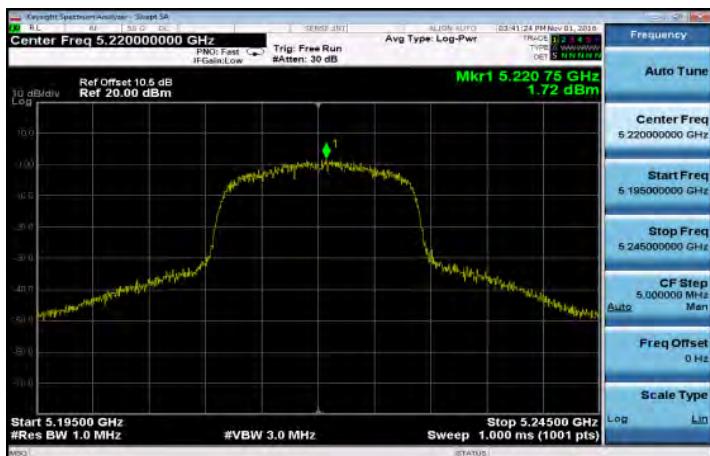
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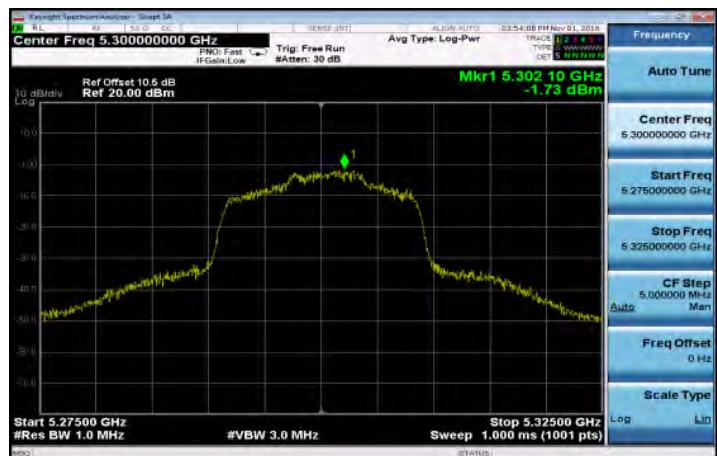
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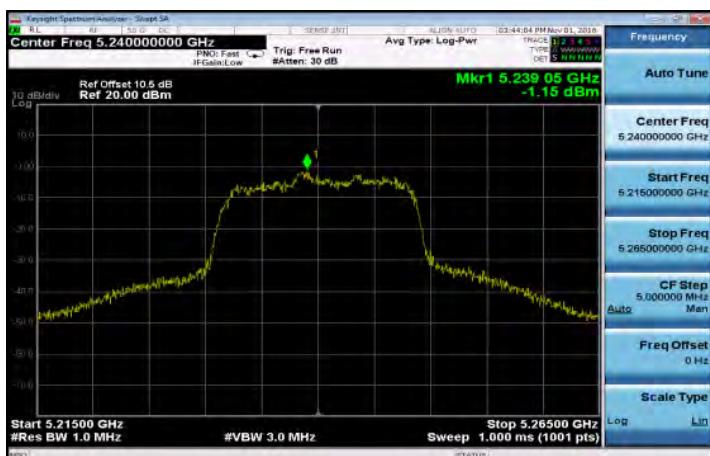
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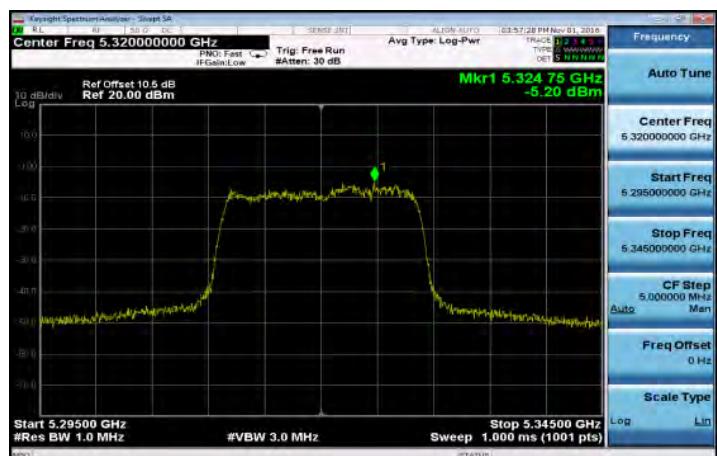
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802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz



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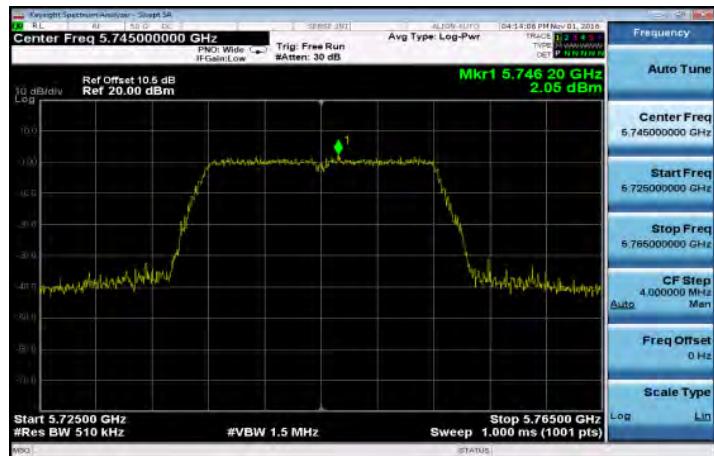
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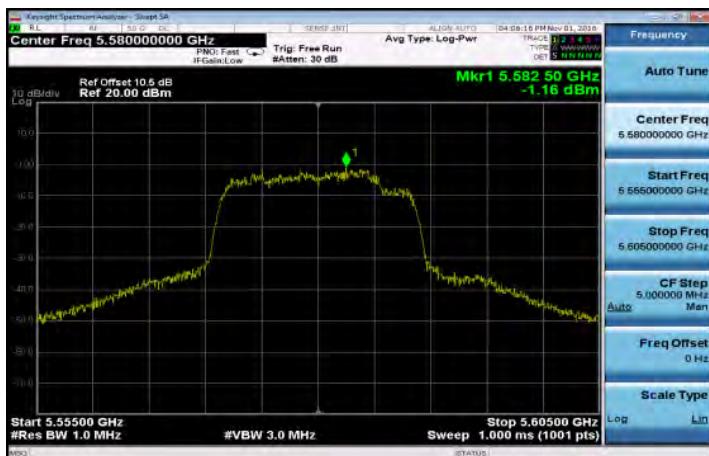
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802.11a_20MHz_5745MHz



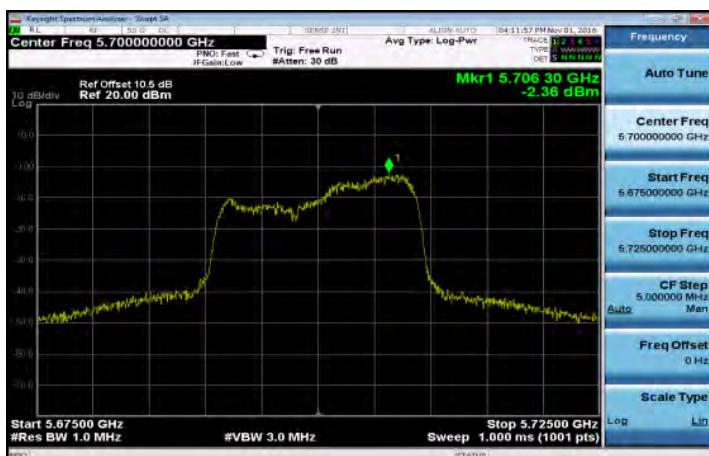
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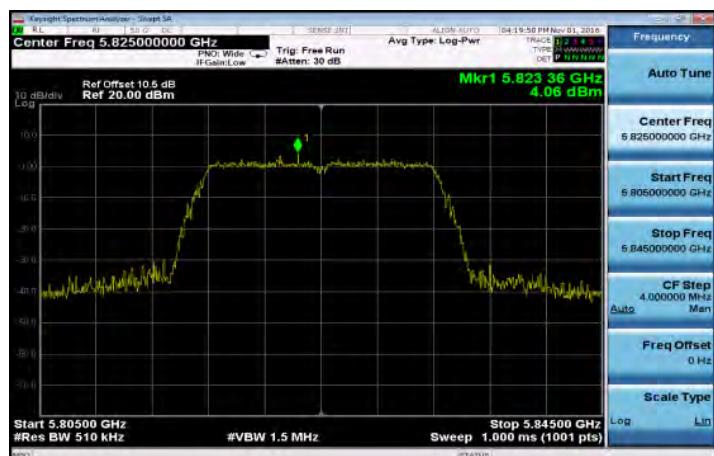
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802.11a_20MHz_5700MHz



802.11a_20MHz_5825MHz



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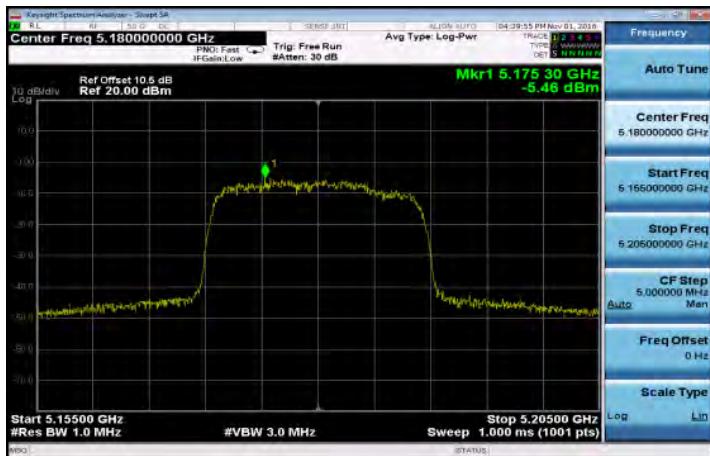
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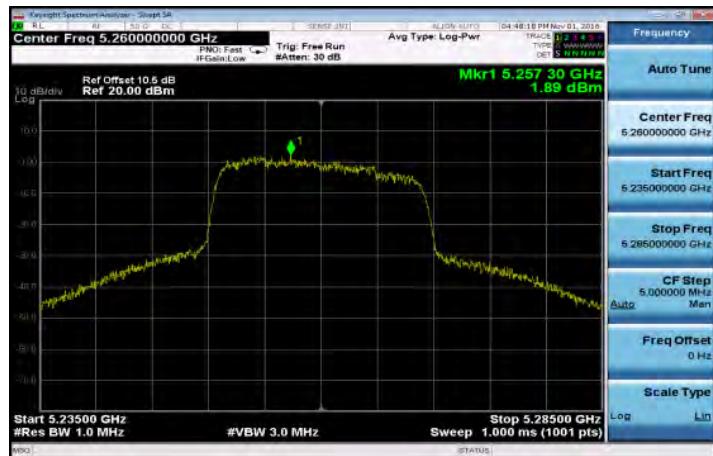
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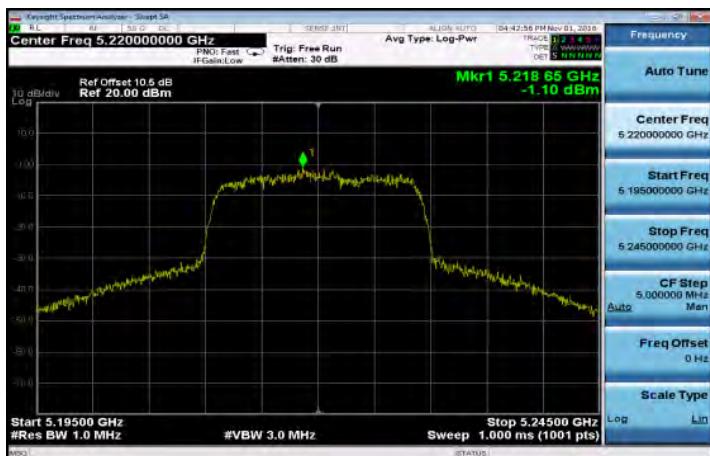
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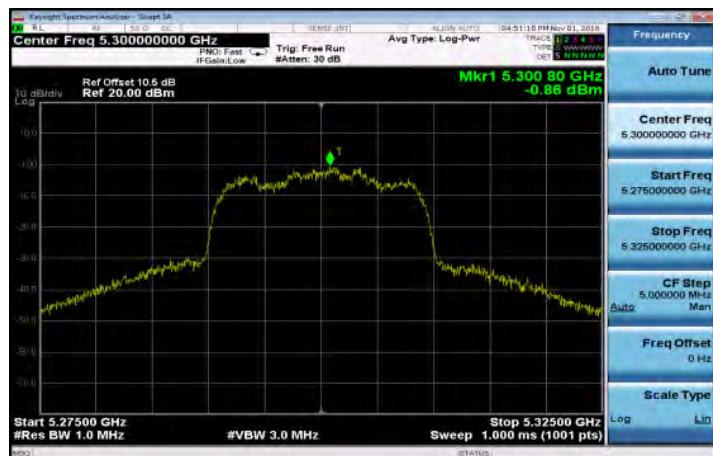
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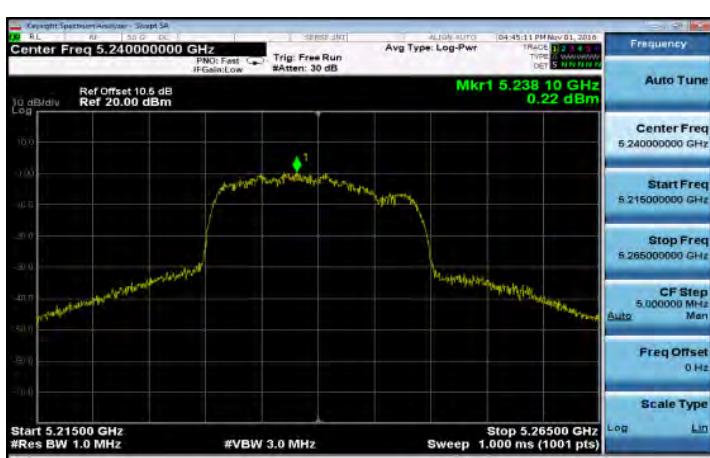
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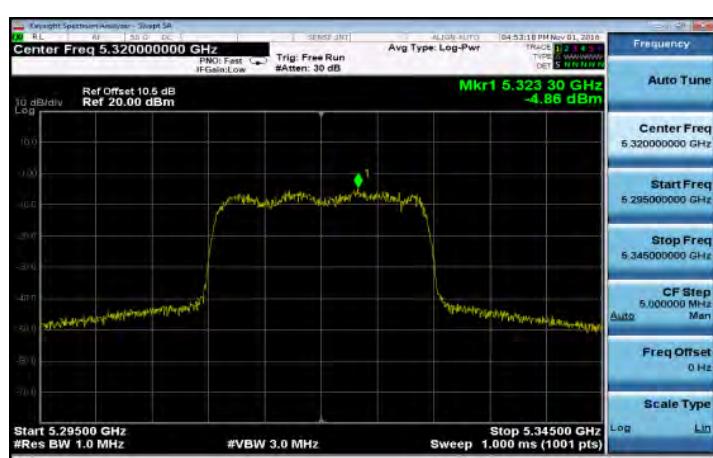
802.11n_20MHz_5300MHz



802.11n_20MHz_5240MHz



802.11n_20MHz_5320MHz

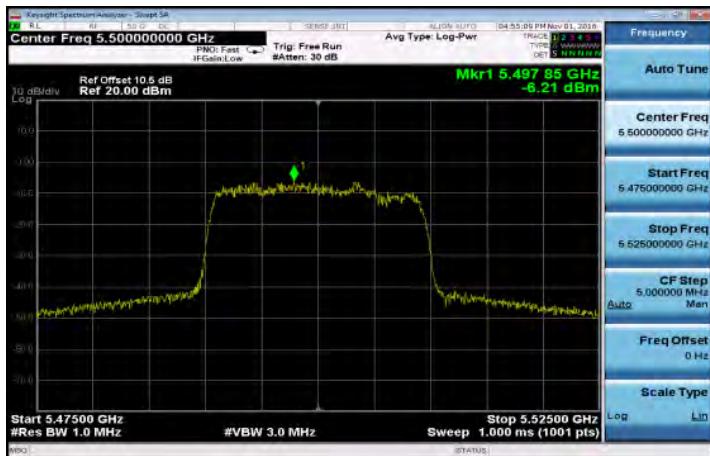


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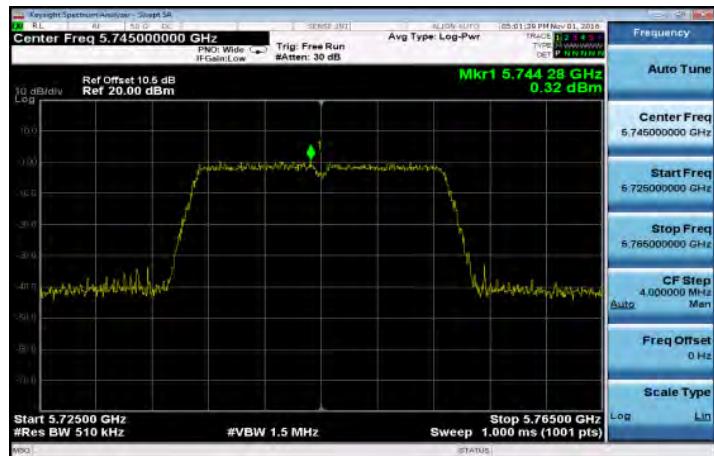
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802.11n 20MHz 5500MHz



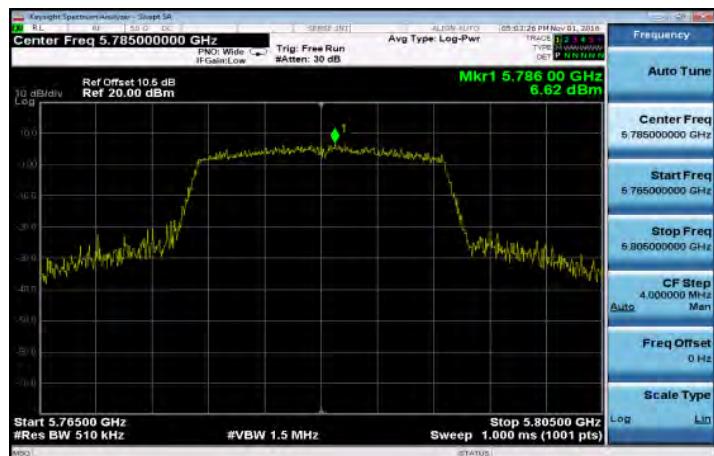
802.11n 20MHz 5745MHz



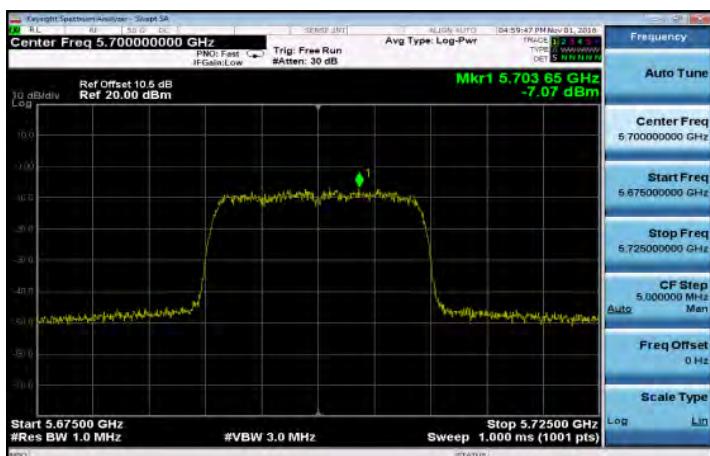
802.11n 20MHz 5580MHz



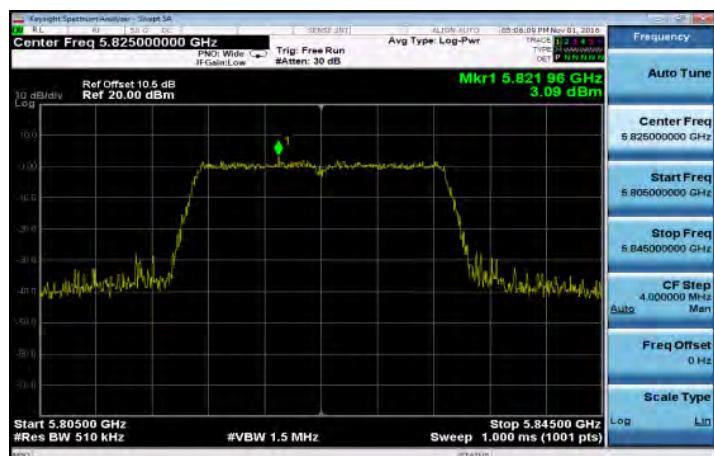
802.11n_20MHz_5785MHz



802.11n 20MHz 5700MHz



802.11n 20MHz 5825MHz



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802.11n_40MHz_5190MHz



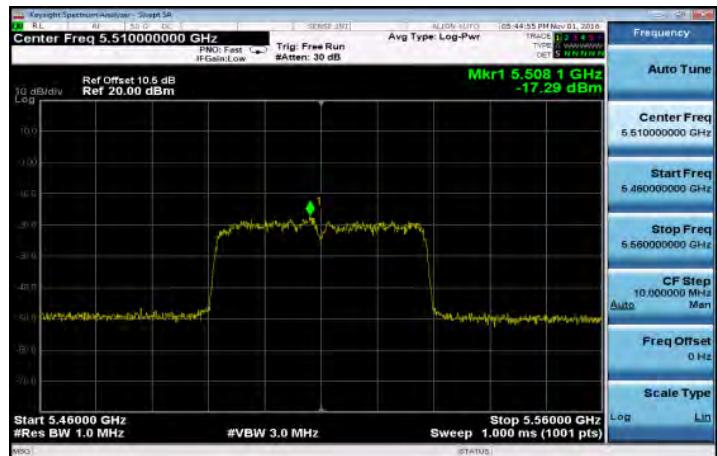
802.11n_40MHz_5310MHz



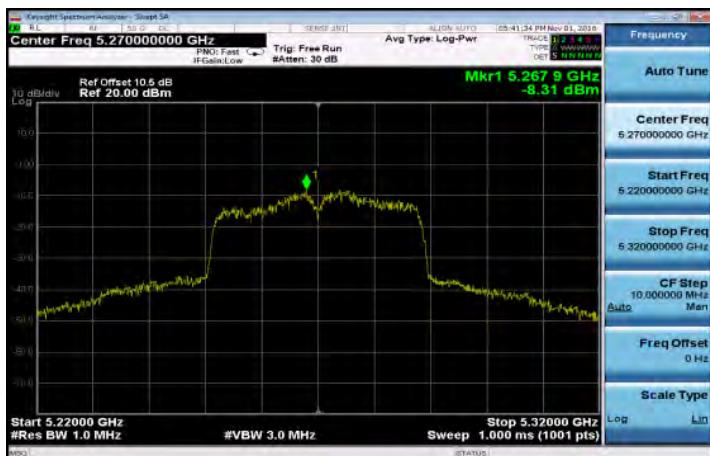
802.11n_40MHz_5230MHz



802.11n_40MHz_5510MHz



802.11n 40MHz 5270MHz



802.11n 40MHz 5550MHz



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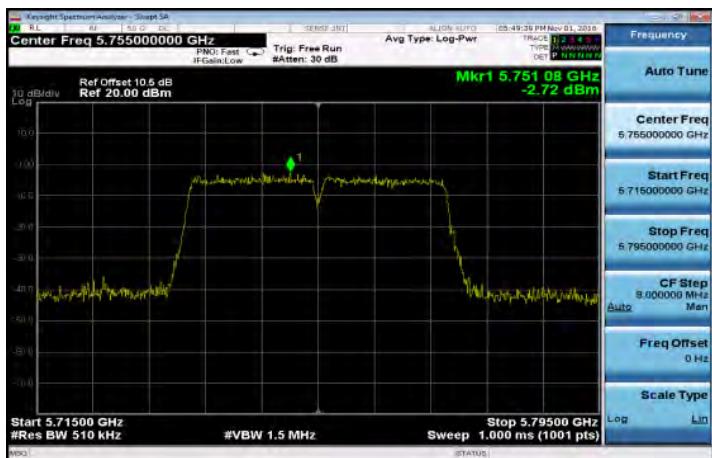
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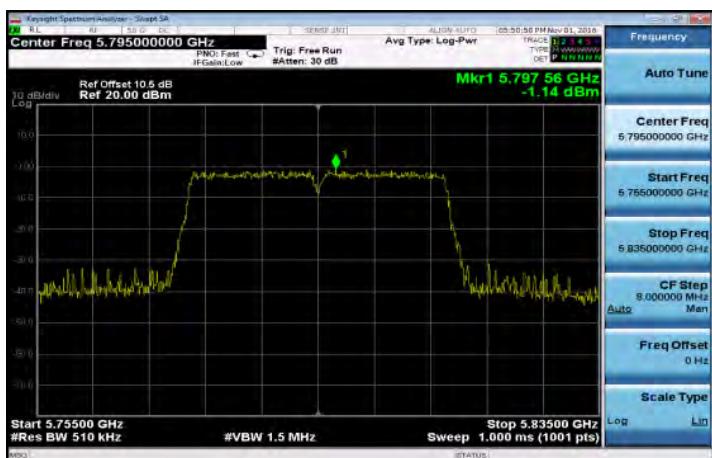
802.11n_40MHz_5670MHz



802.11n_40MHz_5755MHz



802.11n_40MHz_5795MHz



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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 (dB μ V/m)	AV 54 (dB μ V/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.3 (dB μ V/m)
15.407(b)(2) RSS-247 6.2.2.2		
15.407(b)(3) RSS-247 6.2.3.2		
15.407(b)(4)(i) RSS-247 6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dB μ V/m) *1 PK:105.2 (dB μ V/m) *2 PK: 110.8(dB μ V/m) *3 PK:122.2 (dB μ V/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*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 (dB μ V/m) = 20 log Emission level (dB μ V/m)

11.2 Measurement Equipment Used

SGS 966 Chamber No.C					
EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT
TYPE	TYPE	TYPE	TYPE	TYPE	TYPE
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/20/2015	12/19/2016
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/06/2016	01/05/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/06/2016	01/05/2017
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	01/06/2016	01/05/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/06/2016	01/05/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/13/2016	12/12/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/06/2016	01/05/2017

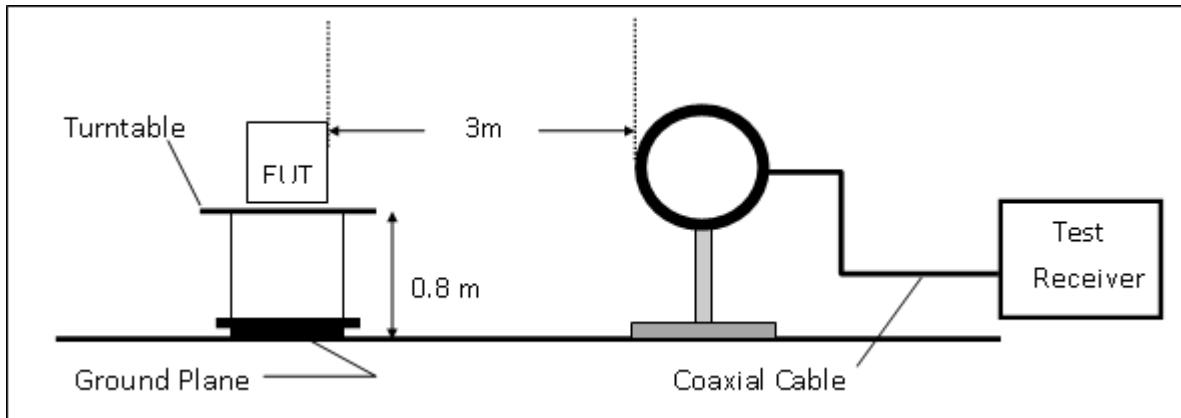
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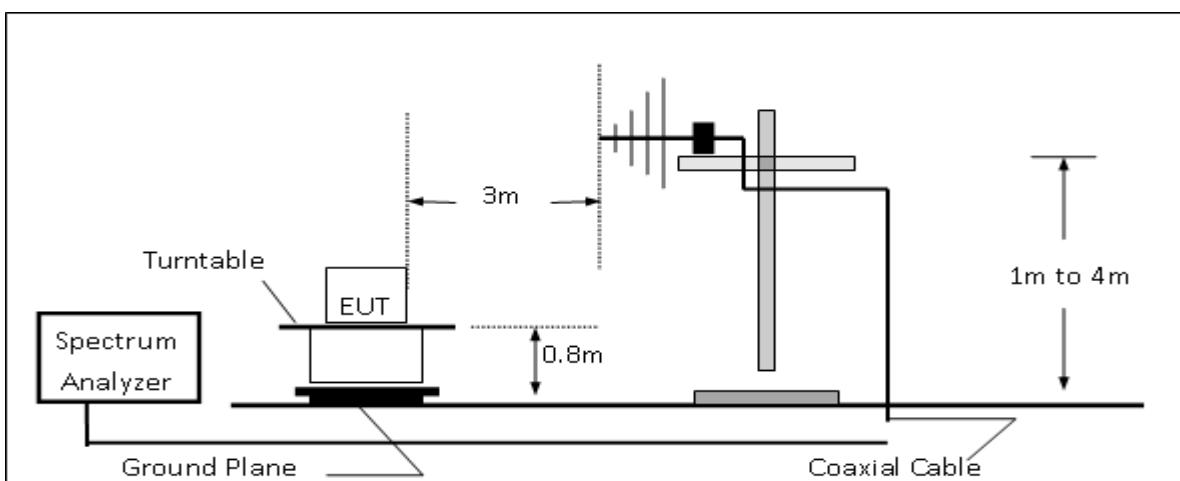
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11.3 Test SET-UP

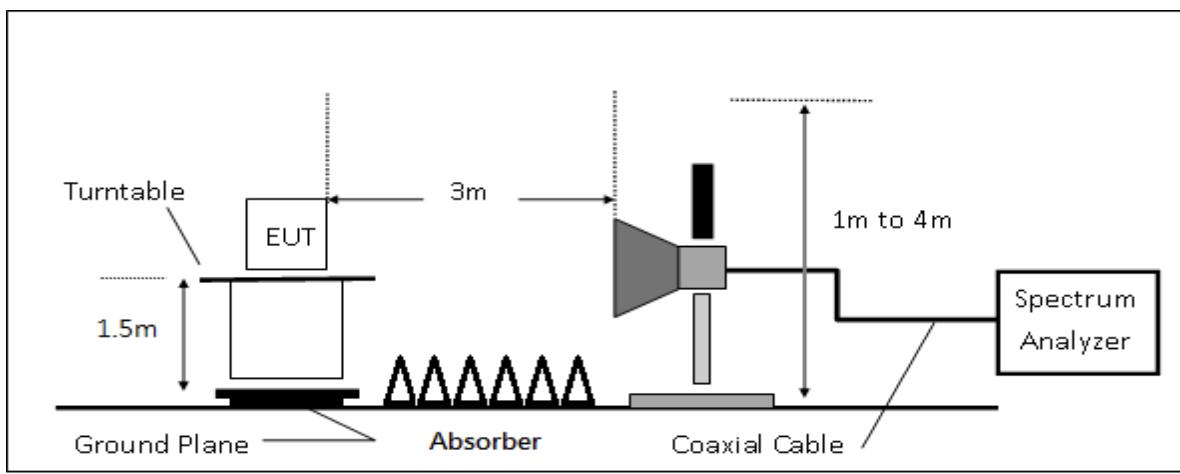
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency from 30MHz to 1000MHz



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



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11.4 Measurement Procedure

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

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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/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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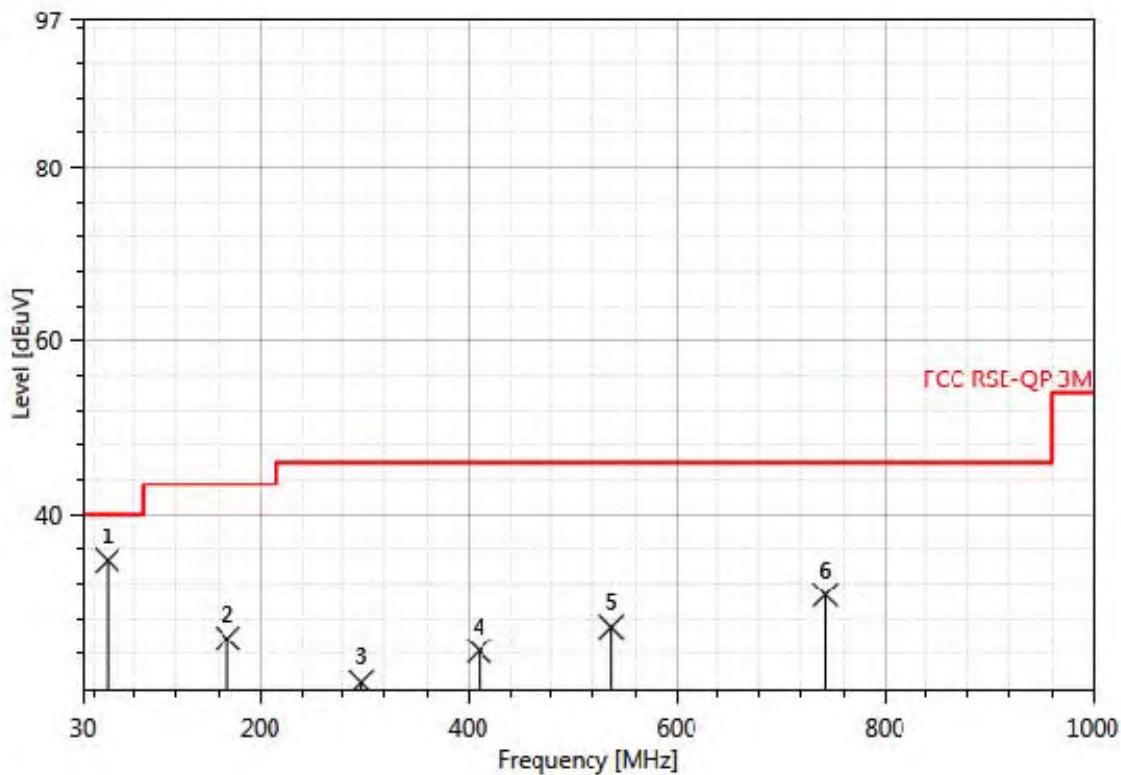
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Radiated Spurious Emission Measurement Result**Below 1GHz Worst-Case Data:****802.11a 5150~5250 MHz**

Operation Mode : 802.11a UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				Mode QP/AV/PK	FS dB μ V/m			
53.28	S	Peak	34.72	42.51	-7.79	40.00	-5.28	
168.71	S	Peak	25.75	33.28	-7.53	43.50	-17.75	
296.75	S	Peak	20.77	26.75	-5.98	46.00	-25.23	
410.24	S	Peak	24.34	27.96	-3.62	46.00	-21.66	
537.31	S	Peak	27.10	28.54	-1.44	46.00	-18.90	
742.95	S	Peak	30.77	28.50	2.28	46.00	-15.23	

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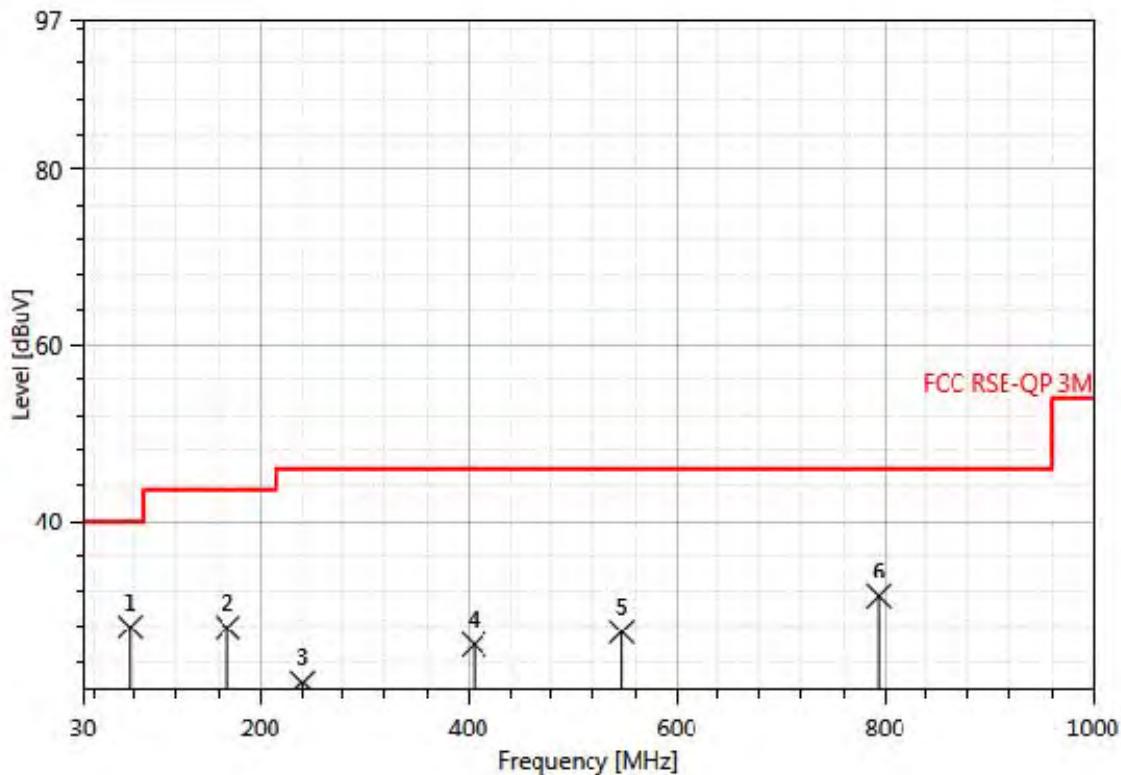
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Operation Mode : 802.11a UNII-1 Test Date : 11/02/2016
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH MID Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode	Actual	Spectrum	Factor dB	Limit @3m dBuV/m	Margin dB
			Reading	FS			
		QP/AV/PK	dB μ V/m	dB μ V/m			
75.59	S	Peak	27.92	39.37	-11.45	40.00	-12.08
168.71	S	Peak	27.83	35.36	-7.53	43.50	-15.67
240.49	S	Peak	21.63	29.66	-8.03	46.00	-24.37
405.39	S	Peak	25.91	29.61	-3.70	46.00	-20.09
547.01	S	Peak	27.38	29.05	-1.67	46.00	-18.62
794.36	S	Peak	31.41	28.53	2.88	46.00	-14.59

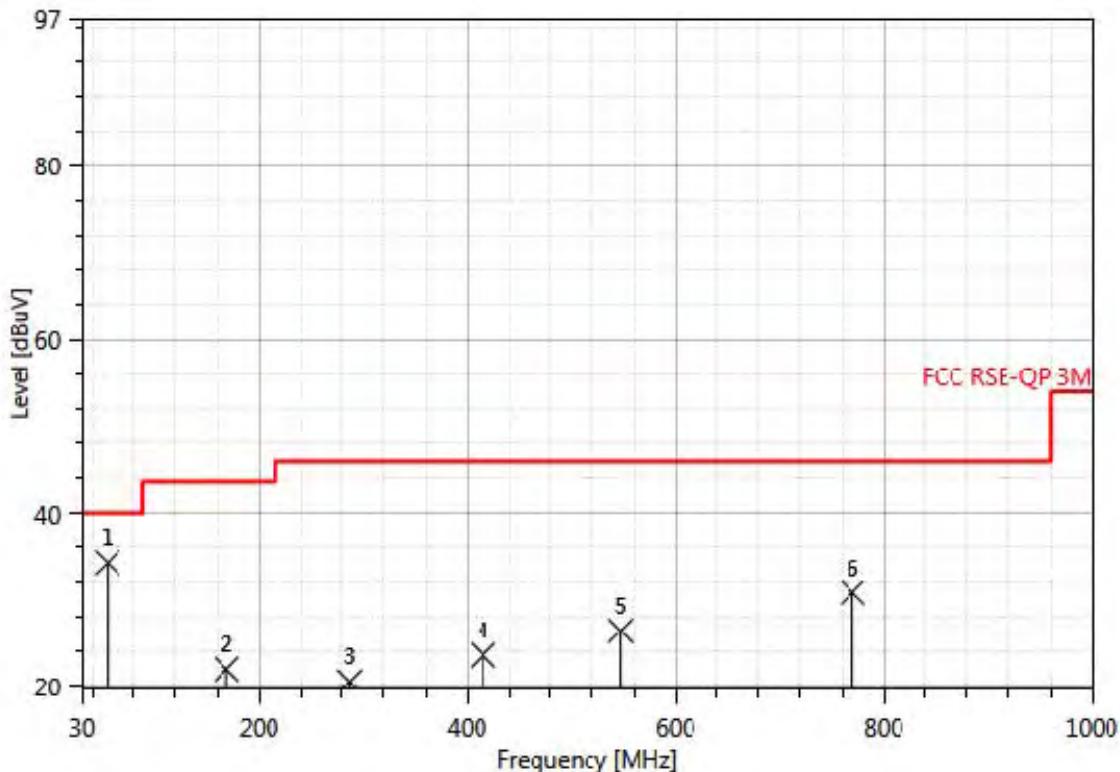
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802.11a 5250~5350 MHz

Operation Mode : 802.11a UNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



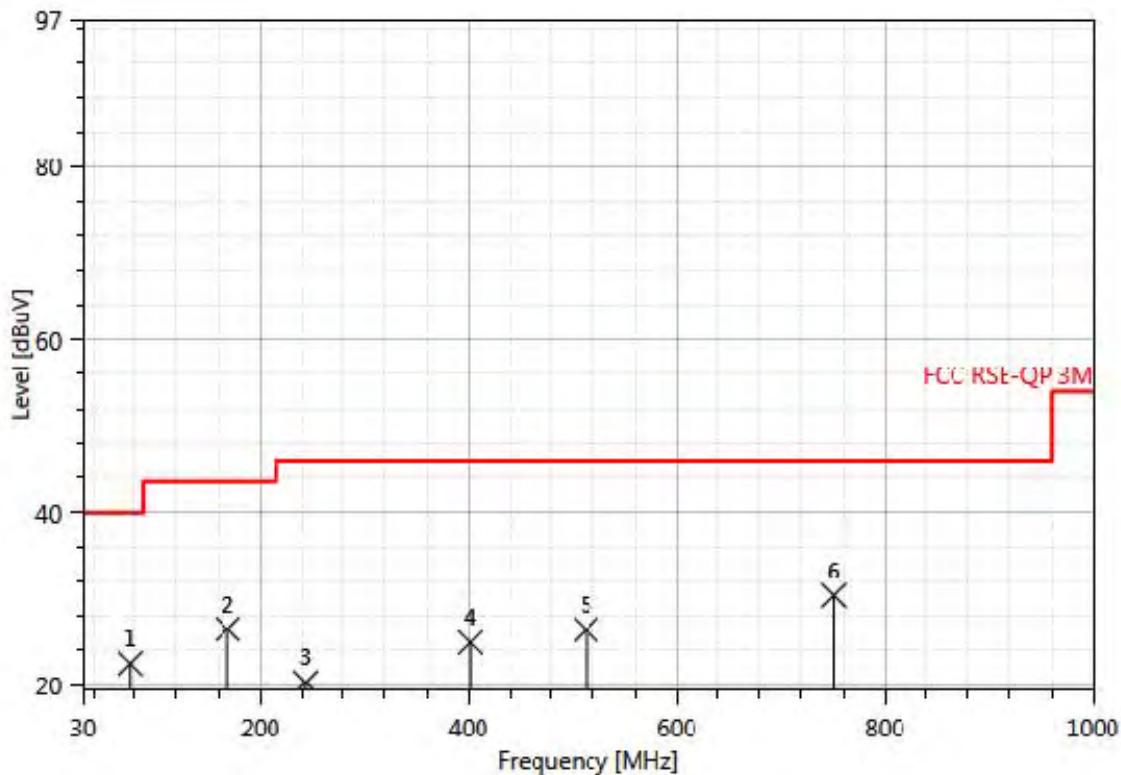
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
						Actual Reading Level dB μ V/m	
54.25	S	Peak	34.27	42.09	-7.82	40.00	-5.73
168.71	S	Peak	21.99	29.52	-7.53	43.50	-21.51
287.05	S	Peak	20.54	26.73	-6.19	46.00	-25.46
415.09	S	Peak	23.59	26.80	-3.21	46.00	-22.41
547.01	S	Peak	26.39	28.06	-1.67	46.00	-19.61
770.11	S	Peak	30.79	28.10	2.69	46.00	-15.21

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Operation Mode : 802.11a UNII-2A Test Date : 11/02/2016
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH MID Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode	Actual	Spectrum	Factor dB	Limit @3m dBuV/m	Margin dB
			Reading	FS			
		QP/AV/PK	dB μ V/m	dB μ V/m			
75.59	S	Peak	22.50	33.95	-11.45	40.00	-17.50
168.71	S	Peak	26.48	34.01	-7.53	43.50	-17.02
243.40	S	Peak	20.32	28.35	-8.03	46.00	-25.68
401.51	S	Peak	24.92	28.86	-3.95	46.00	-21.08
513.06	S	Peak	26.41	28.30	-1.90	46.00	-19.59
750.71	S	Peak	30.37	27.61	2.76	46.00	-15.63

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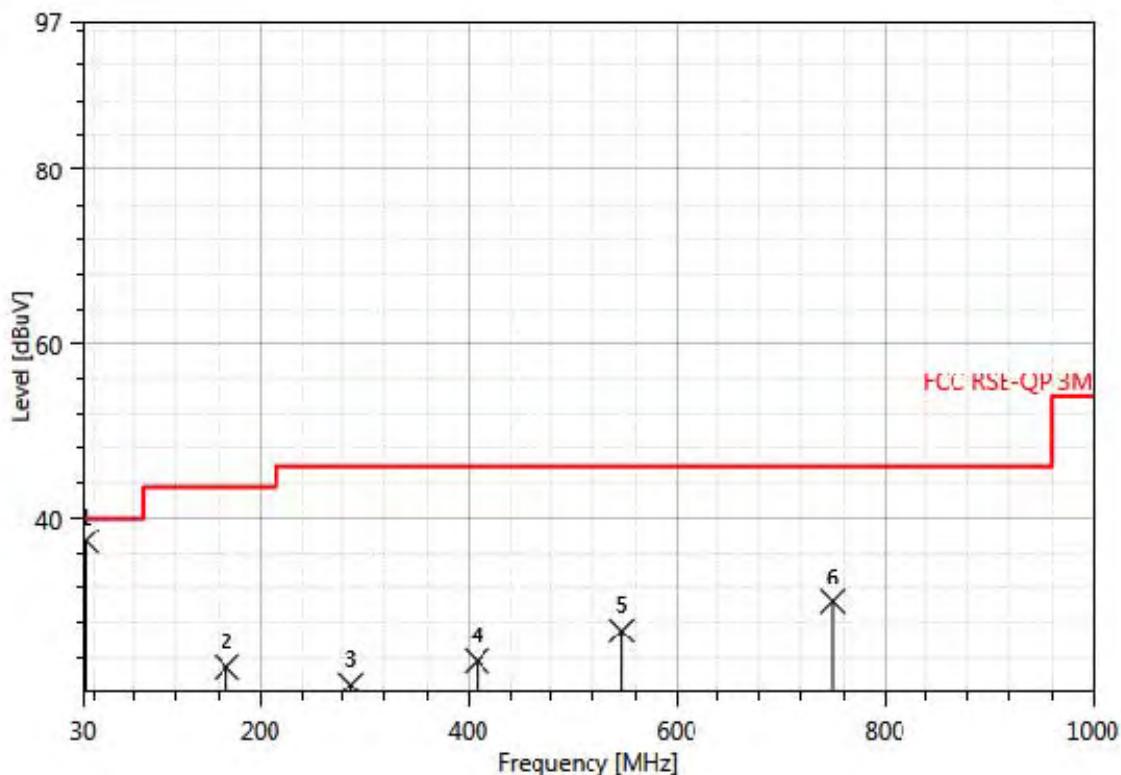
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802.11a, 5470~5725 MHz

Operation Mode : 802.11a UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



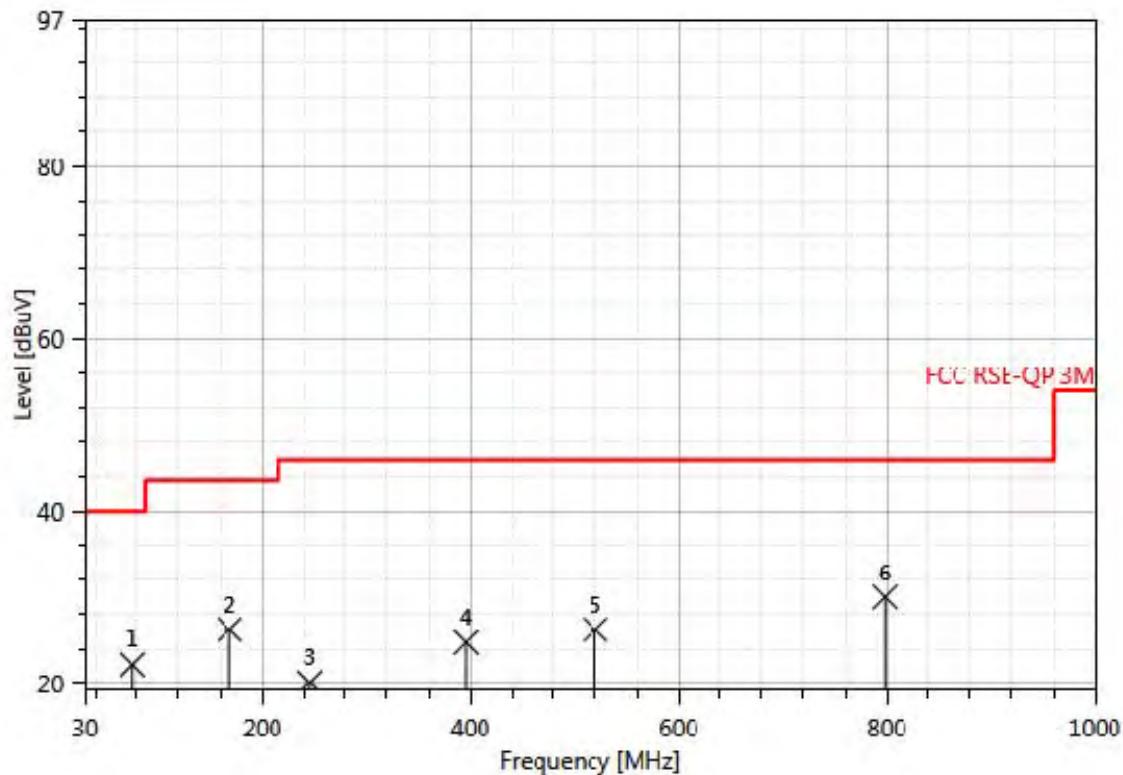
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
						Limit @3m dBuV/m	Margin dB
32.91	S	Peak	37.36	46.43	-9.07	40.00	-2.64
167.74	S	Peak	22.91	30.37	-7.46	43.50	-20.59
287.05	S	Peak	20.89	27.08	-6.19	46.00	-25.11
408.30	S	Peak	23.61	27.14	-3.53	46.00	-22.39
547.01	S	Peak	27.06	28.74	-1.67	46.00	-18.94
749.74	S	Peak	30.40	27.68	2.72	46.00	-15.60

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Operation Mode : 802.11a UNII-2C Test Date : 11/02/2016
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH MID Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode	Actual	Spectrum	Factor dB	Limit @3m dBuV/m	Margin dB
			Reading	FS dB μ V/m			
75.59	S	Peak	22.23	33.68	-11.45	40.00	-17.77
168.71	S	Peak	26.28	33.81	-7.53	43.50	-17.22
245.34	S	Peak	20.15	28.18	-8.03	46.00	-25.85
395.69	S	Peak	24.77	28.93	-4.15	46.00	-21.23
519.85	S	Peak	26.27	27.89	-1.62	46.00	-19.73
798.24	S	Peak	30.03	26.92	3.11	46.00	-15.97

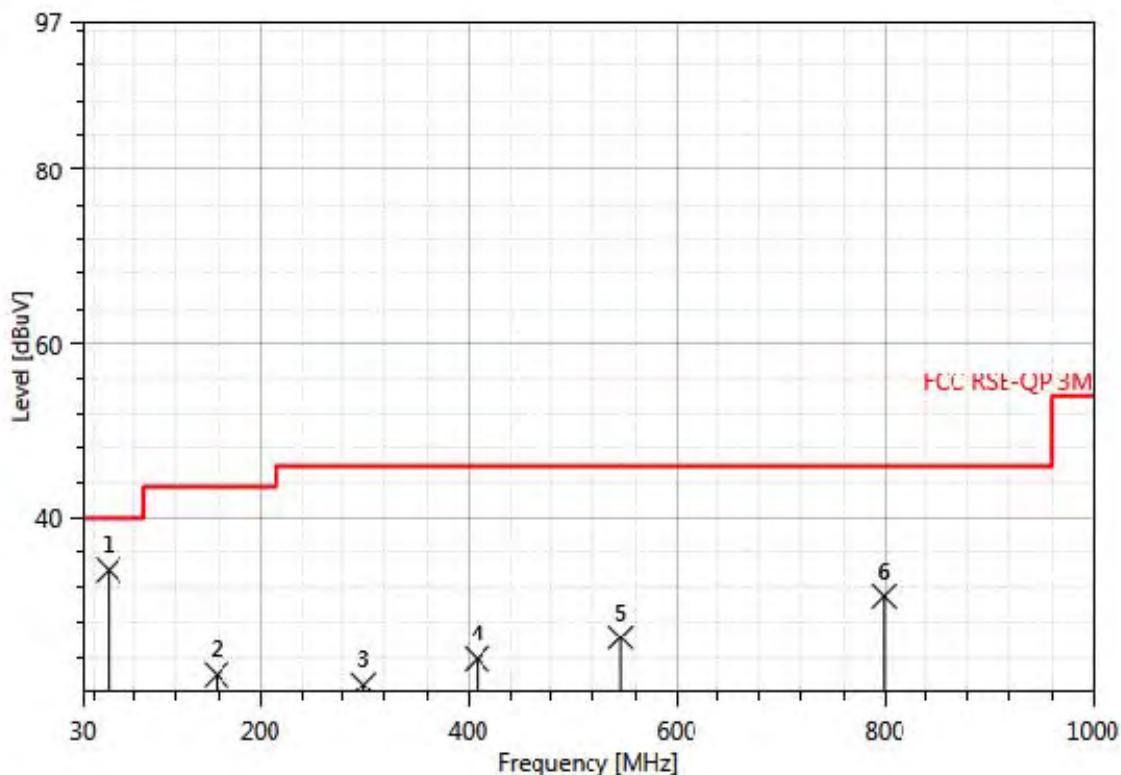
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802.11a, 5725~5850 MHz

Operation Mode :	802.11a UNII-3	Test Date :	11/02/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22 deg_C / 63 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
						Actual Reading Level dB μ V/m	
54.25	S	Peak	34.05	41.87	-7.82	40.00	-5.95
158.04	S	Peak	22.02	29.47	-7.45	43.50	-21.48
298.69	S	Peak	20.85	26.80	-5.95	46.00	-25.15
408.30	S	Peak	23.79	27.33	-3.53	46.00	-22.21
546.04	S	Peak	26.26	27.81	-1.55	46.00	-19.74
799.21	S	Peak	30.93	27.79	3.14	46.00	-15.07

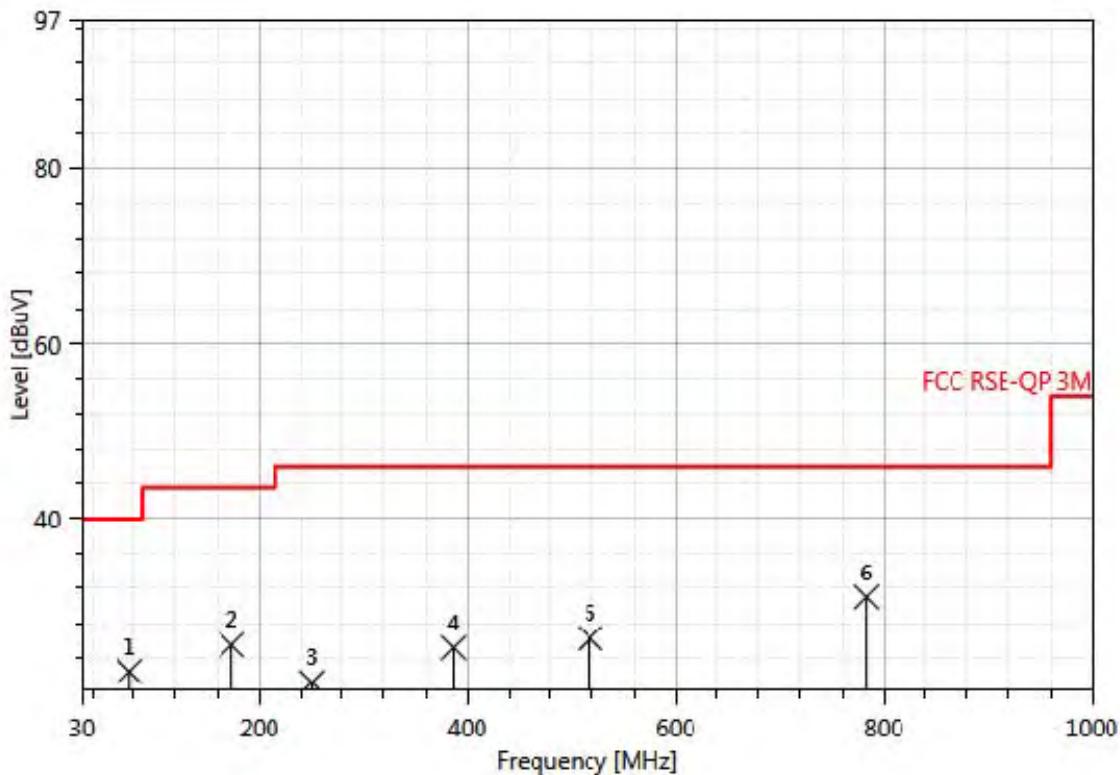
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Operation Mode : 802.11a UNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH MID Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode	Actual		Spectrum FS	Factor dB	Limit @3m dBuV/m	Margin dB
			QP/AV/PK	Reading Level dB μ V/m				
75.59	S	Peak	22.55	33.99	-11.45	40.00	-17.45	
173.56	S	Peak	25.56	33.52	-7.96	43.50	-17.94	
250.19	S	Peak	21.29	29.22	-7.93	46.00	-24.71	
386.96	S	Peak	25.23	29.54	-4.30	46.00	-20.77	
517.91	S	Peak	26.33	28.15	-1.83	46.00	-19.67	
783.69	S	Peak	31.02	28.27	2.75	46.00	-14.98	

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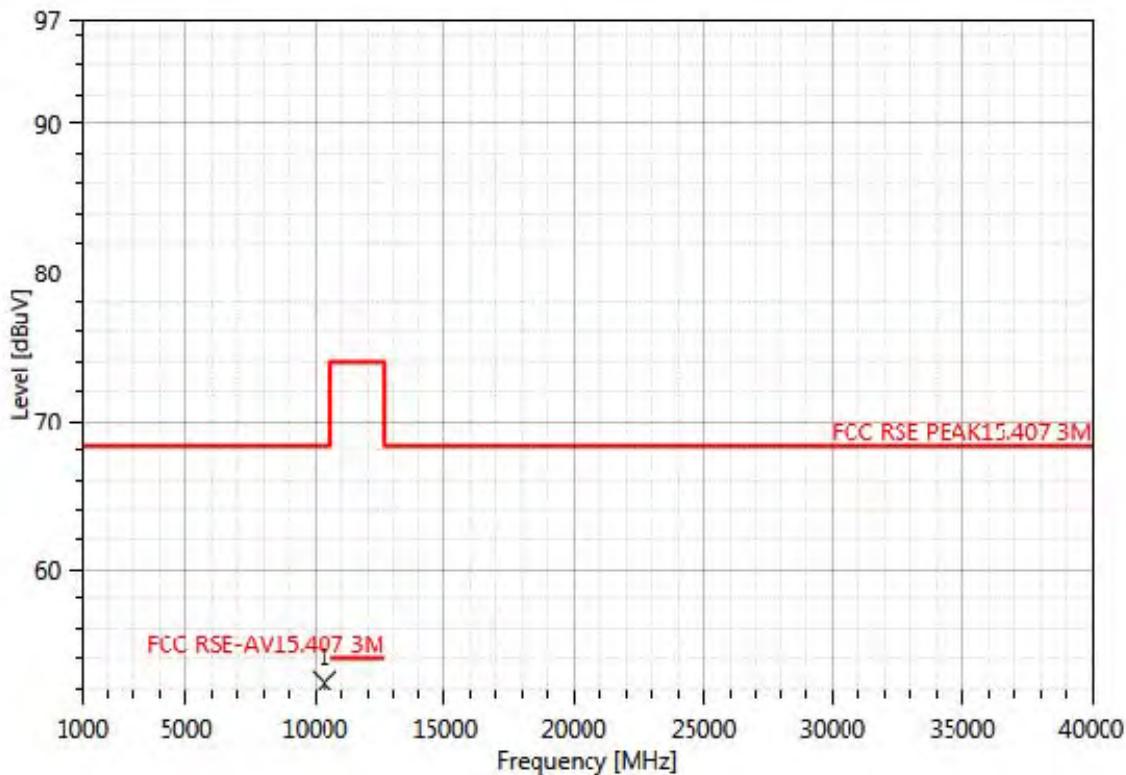
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Above 1GHz Worst-Case Data:**Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz**

Operation Mode : 802.11a UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



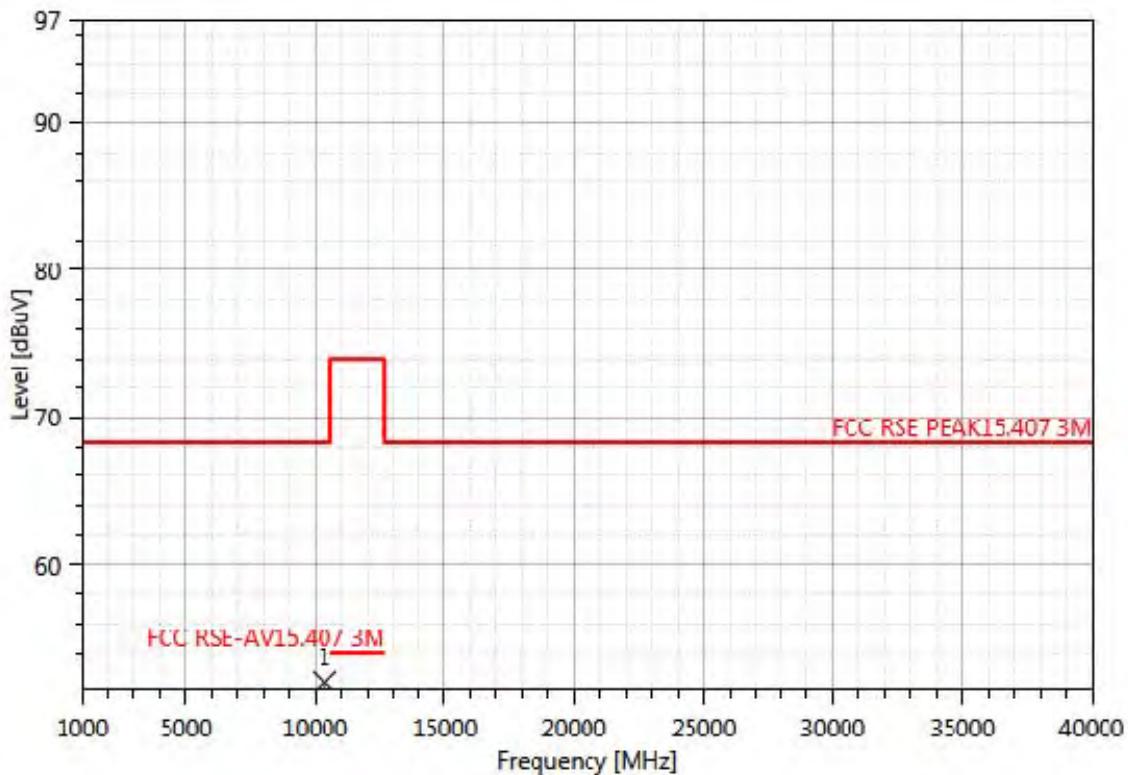
Freq. MHz	Note F/H/E/S	Decetor Mode	Actual Reading	Spectrum FS	Factor	Limit @3m	Margin
		QP/AV/PK	Level dB μ V/m	dB μ V/m	dB	dBuV/m	dB
10360.00	H	Peak	52.37	34.08	18.29	68.30	-15.93

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Operation Mode : 802.11a UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	dBuV/m
10360.00	H	Peak	52.01	33.72	18.29	68.30	-16.29

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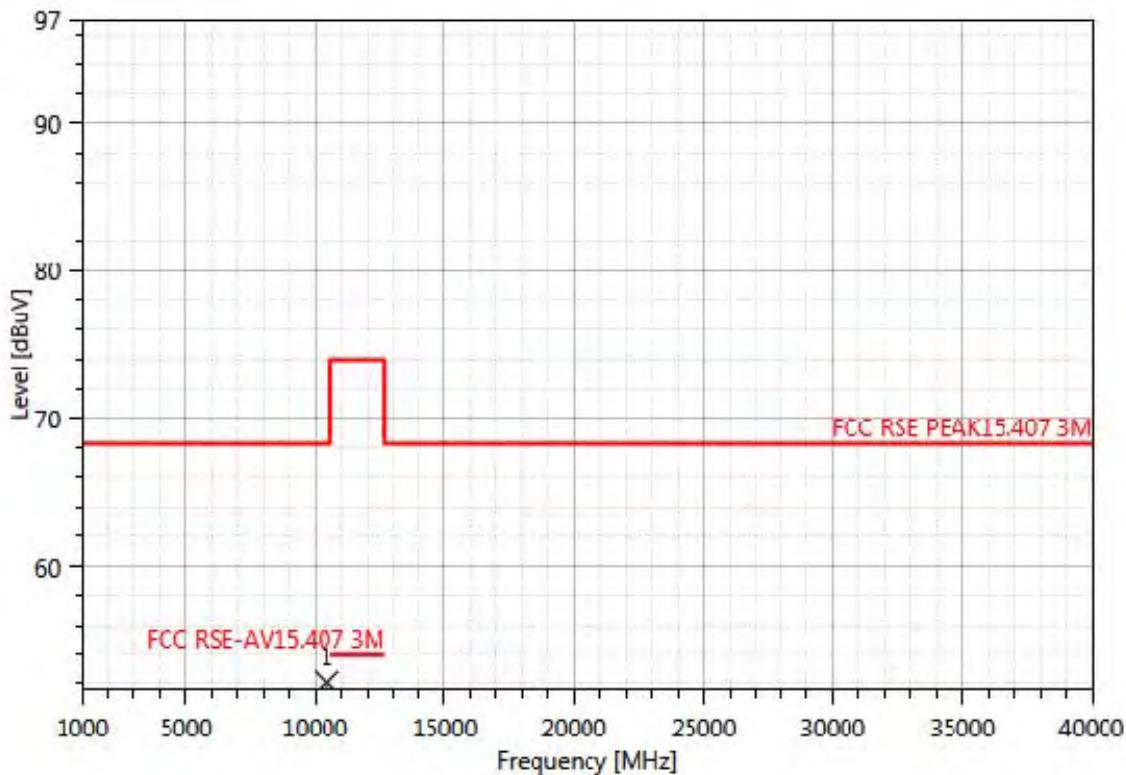
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Operation Mode : 802.11a UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



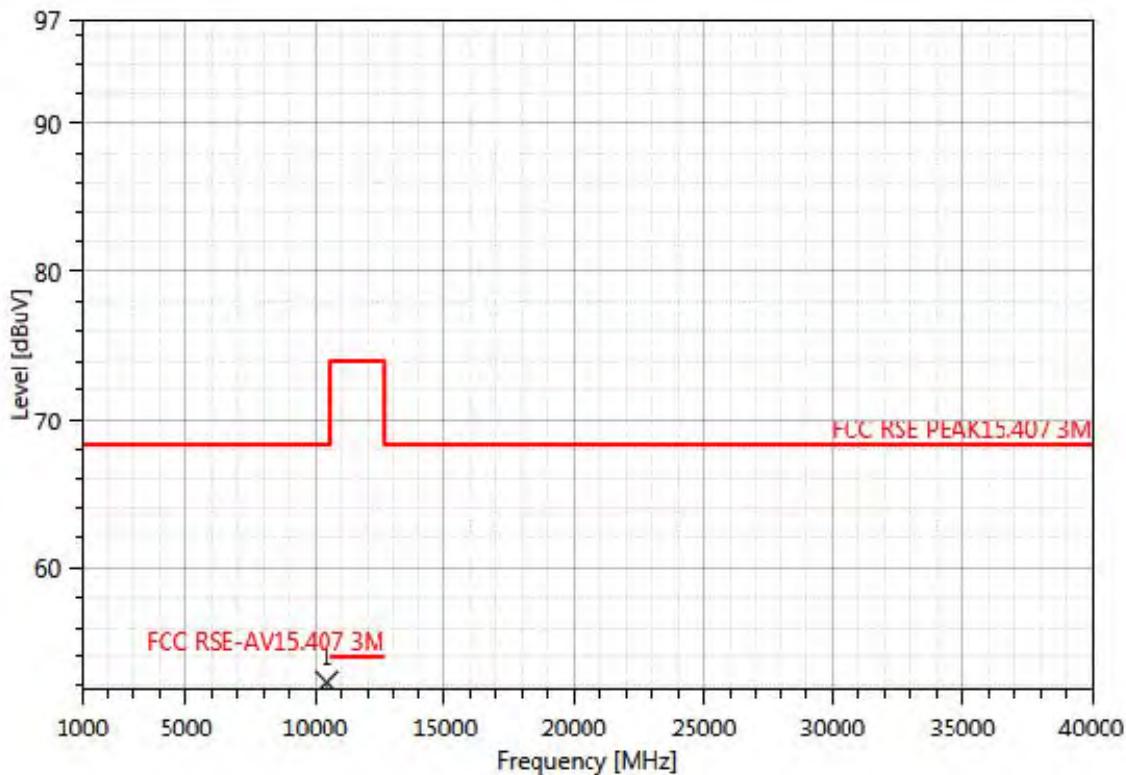
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10440.00	H	Peak	52.12	33.44	18.68	68.30	-16.18

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Operation Mode : 802.11a UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	dBuV/m
10440.00	H	Peak	52.26	33.58	18.68	68.30	-16.04

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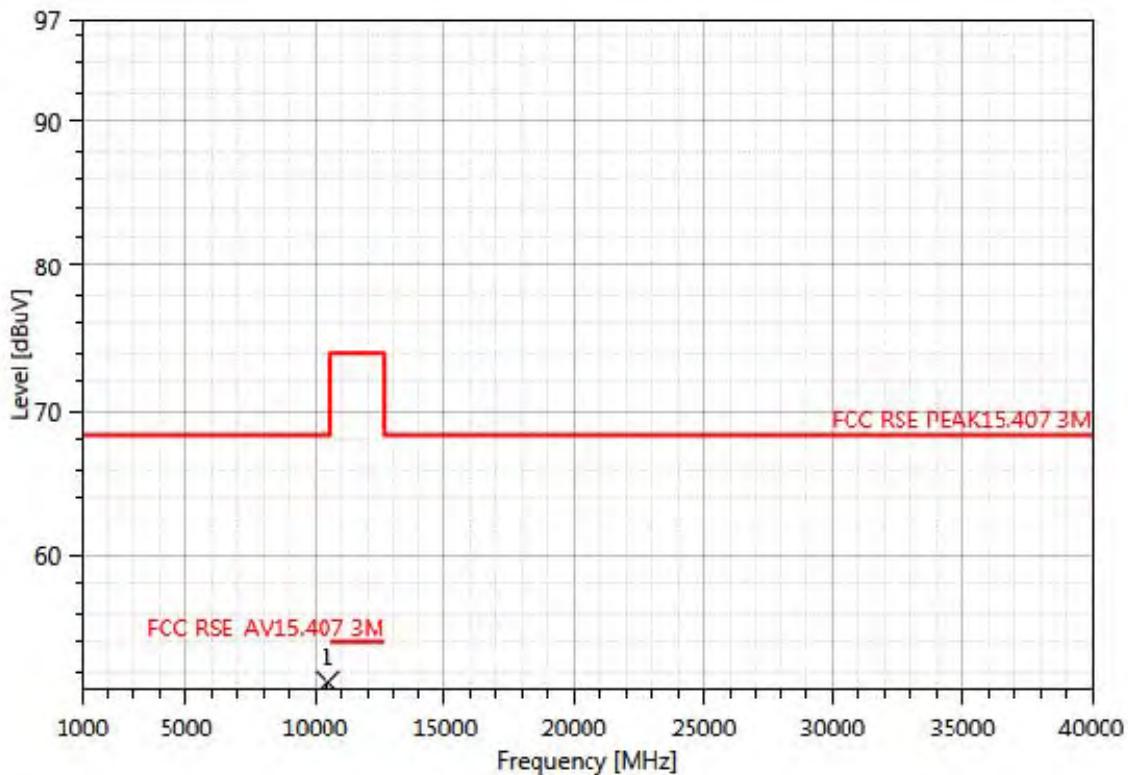
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Operation Mode : 802.11a UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



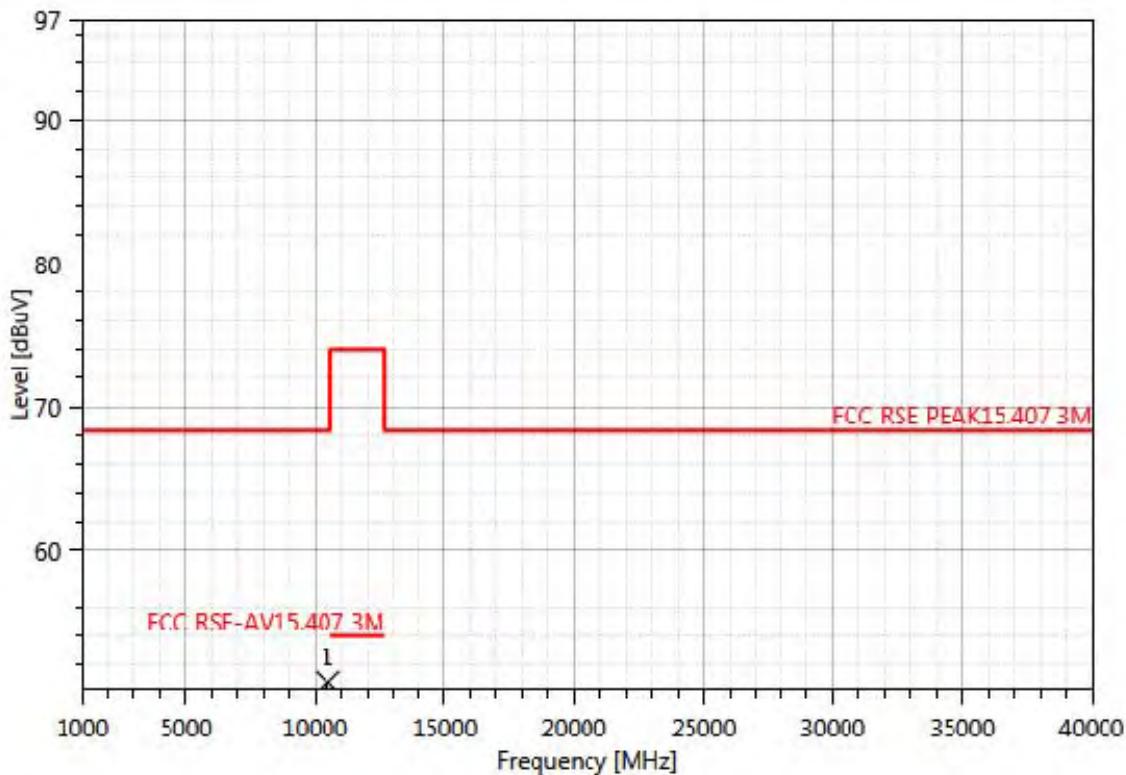
Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	dBuV/m
10480.00	H	Peak	51.24	32.95	18.29	68.30	-17.06

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Operation Mode : 802.11a UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	dBuV/m
10480.00	H	Peak	50.77	32.47	18.29	68.30	-17.53

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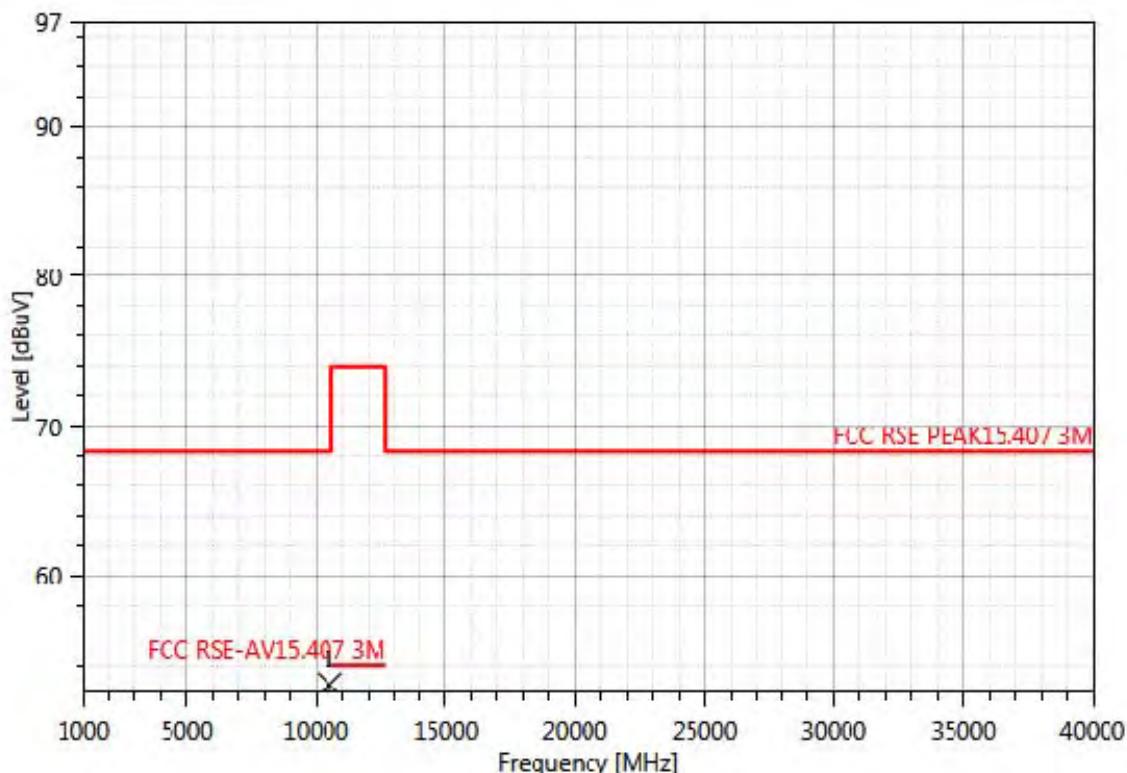
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode : 802.11aUNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



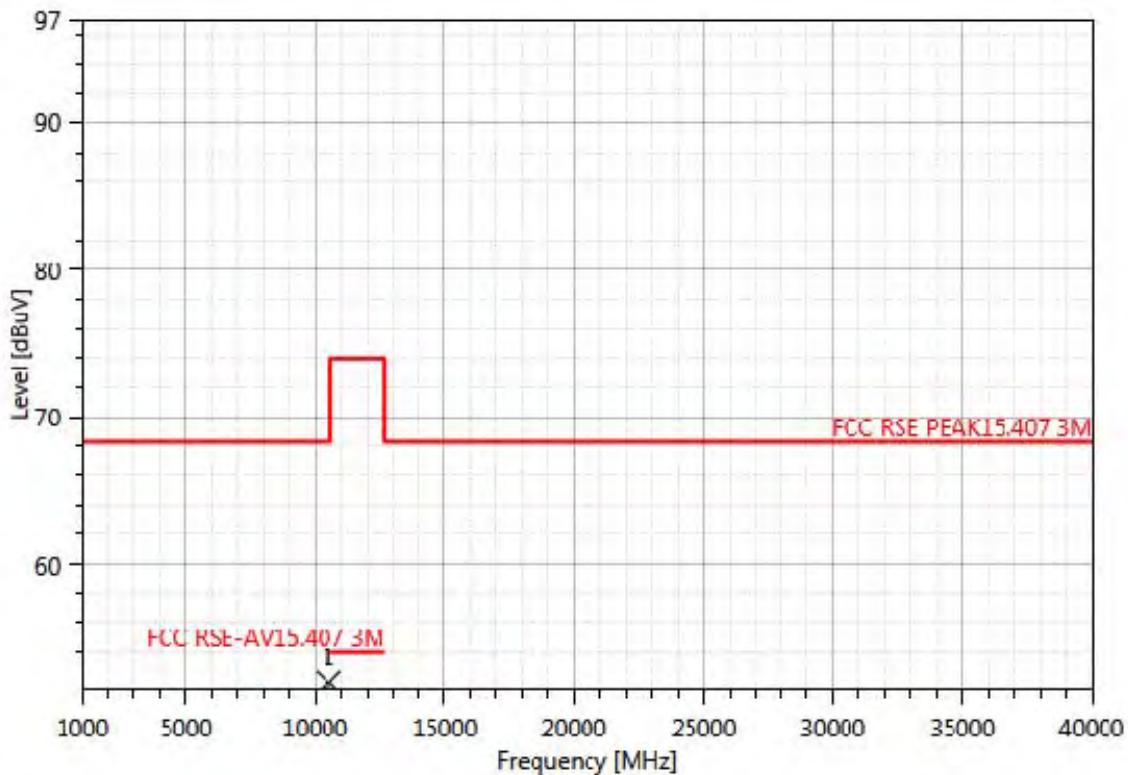
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	52.72	33.35	19.37	68.30	-15.58

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Operation Mode : 802.11a UNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



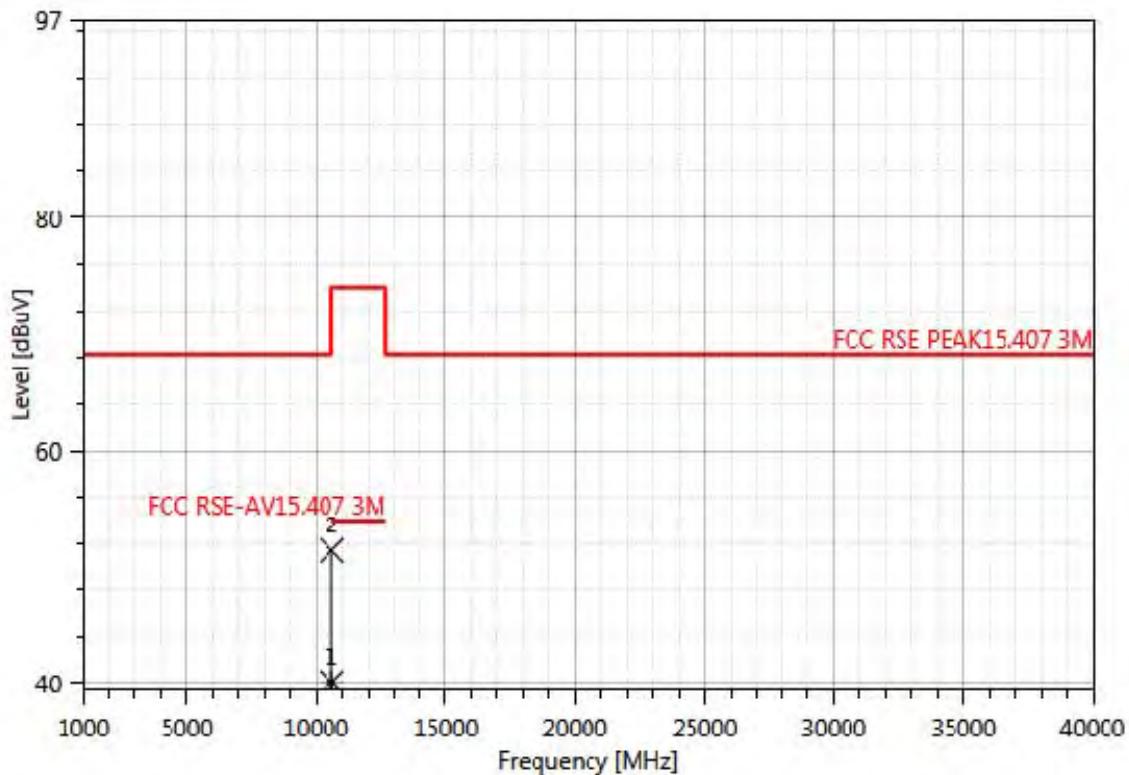
Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	
		QP/AV/PK	Level	dB μ V/m		dBuV/m	dB
10520.00	H	Peak	51.94	32.57	19.37	68.30	-16.36

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Operation Mode : 802.11a UNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
10600.00	H	Average	40.13	21.22	18.91	54.00	-13.87	
10600.00	H	Peak	51.46	32.55	18.91	74.00	-22.54	

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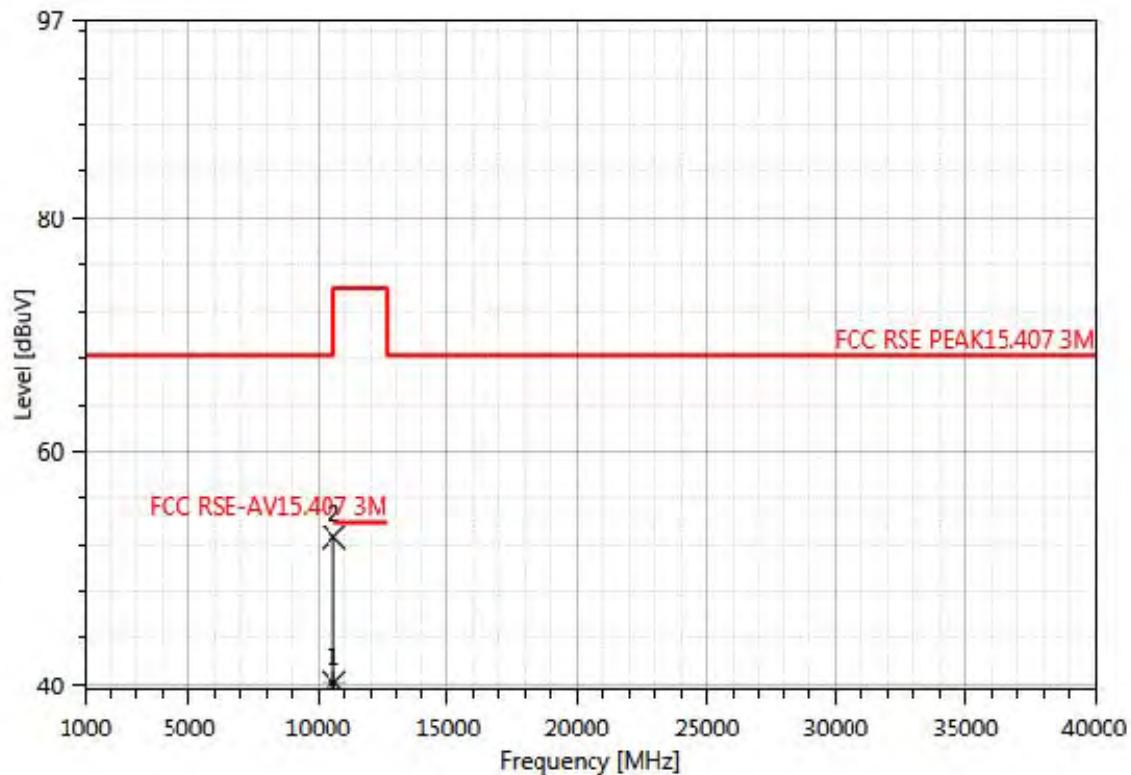
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Operation Mode : 802.11a UNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



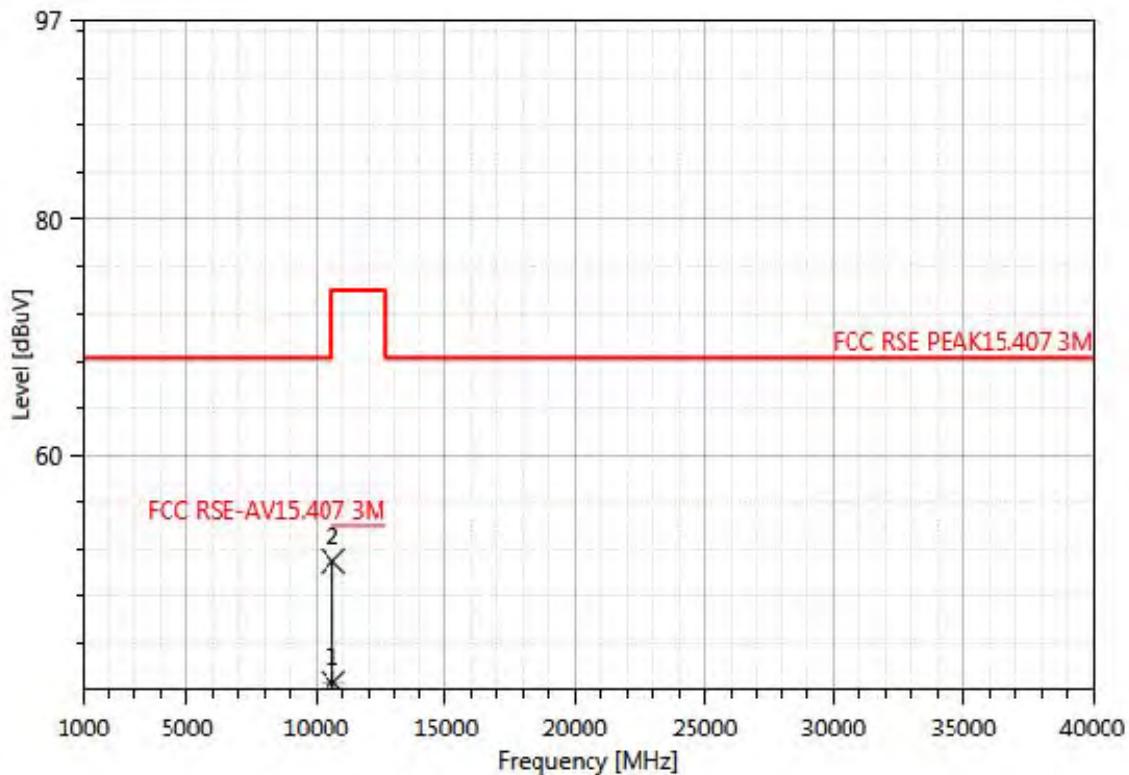
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
10600.00	H	Average	40.23	21.32	18.91	54.00	-13.77	
10600.00	H	Peak	52.64	33.74	18.91	74.00	-21.36	

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Operation Mode : 802.11a UNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
10640.00	H	Average	40.66	21.48	19.18	54.00	-13.34	
10640.00	H	Peak	50.99	31.81	19.18	74.00	-23.01	

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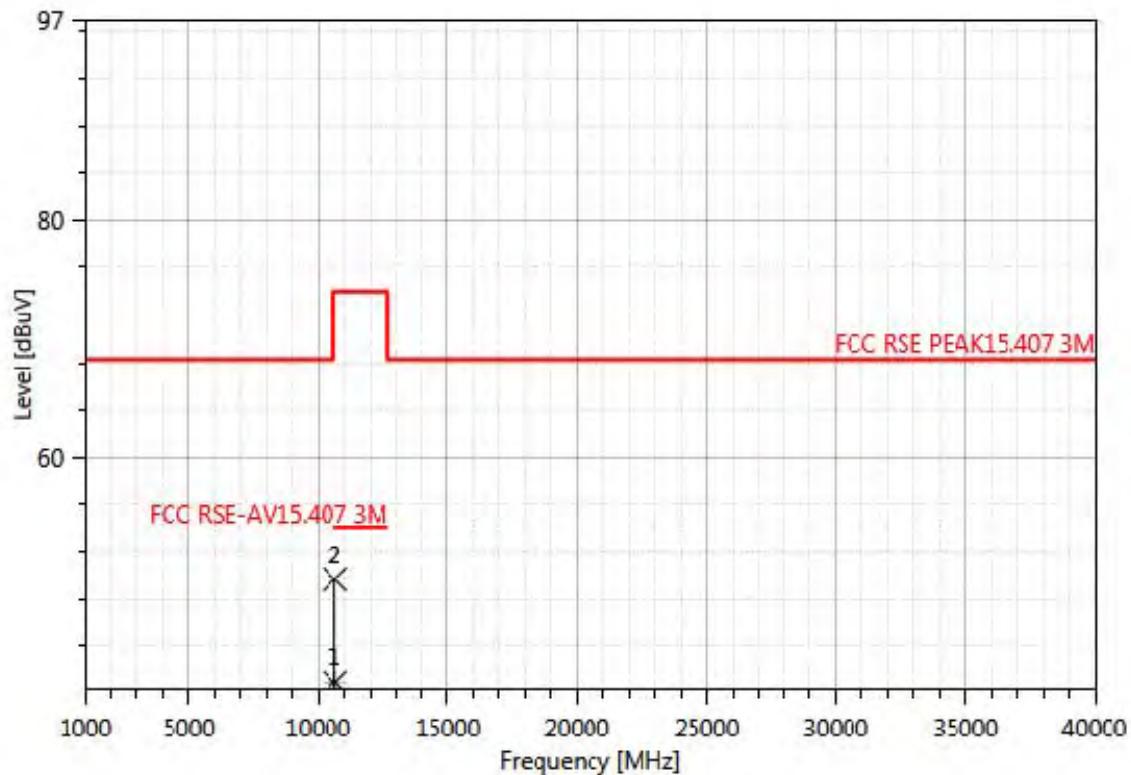
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Operation Mode : 802.11a UNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
10640.00	H	Average	40.95	21.77	19.18	54.00	54.00	-13.05
10640.00	H	Peak	49.68	30.49	19.18	74.00	74.00	-24.32

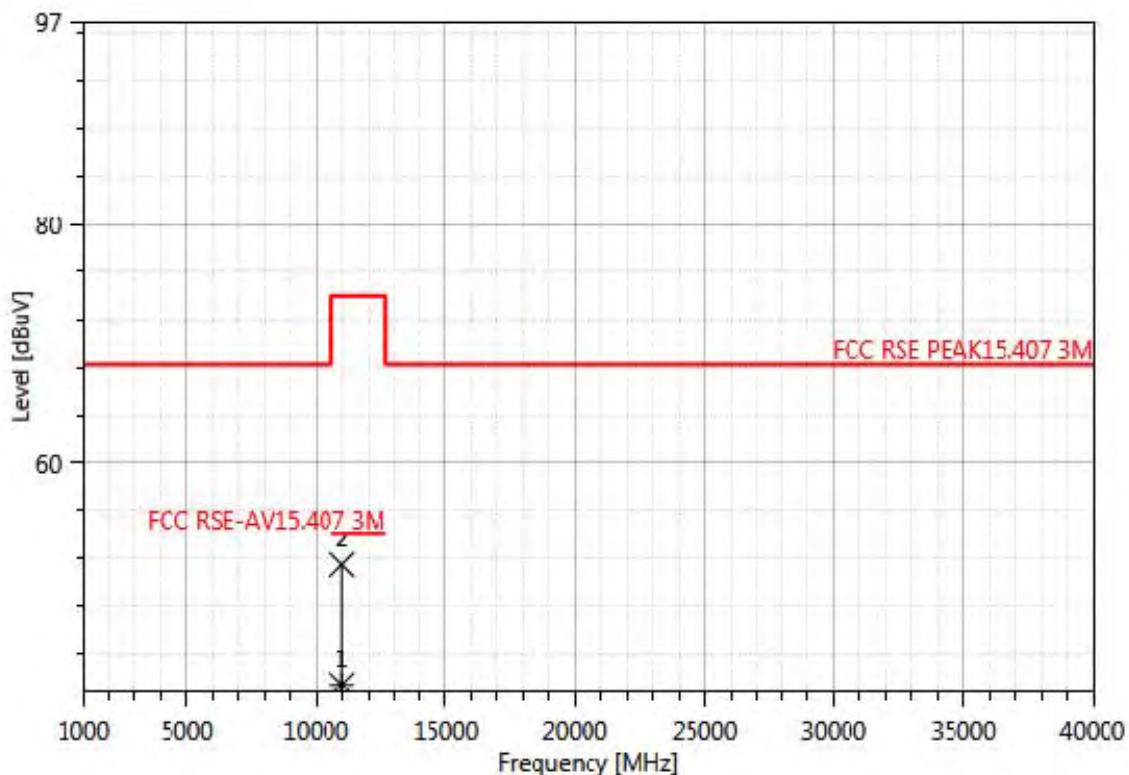
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode : 802.11a UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



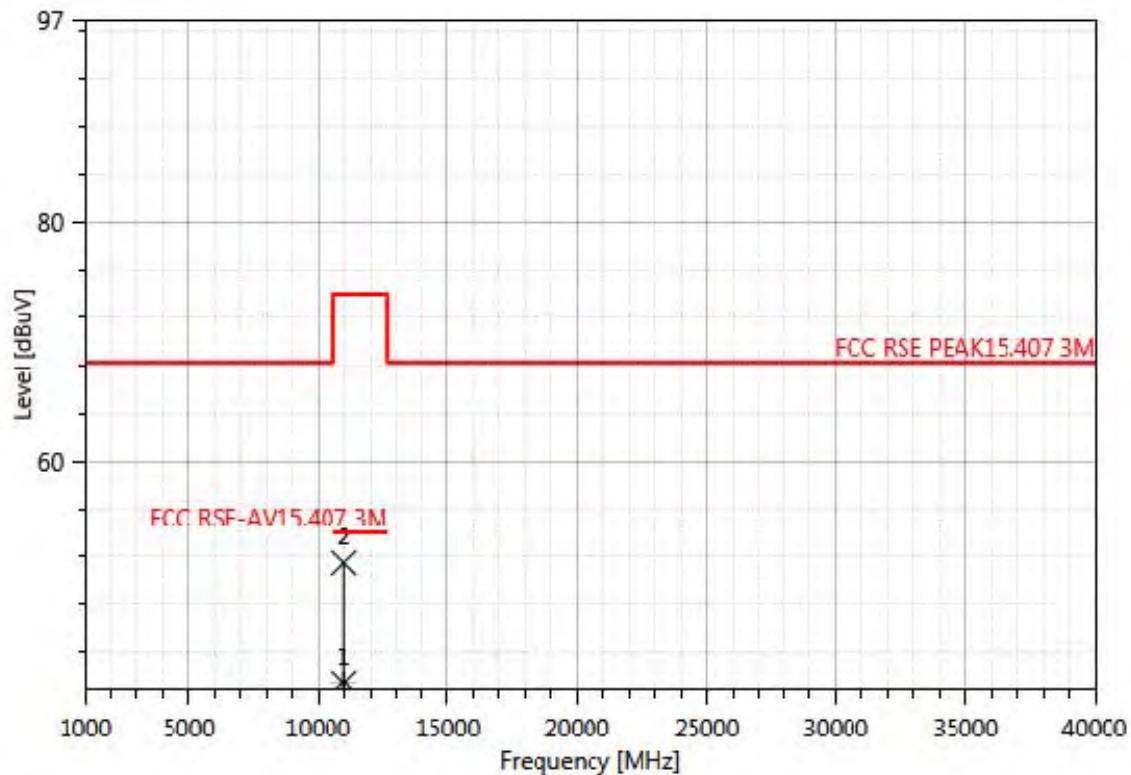
Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	
		QP/AV/PK	Level	dB μ V/m		dBuV/m	dB
11000.00	H	Average	41.38	21.21	20.17	54.00	-12.62
11000.00	H	Peak	51.48	31.31	20.17	74.00	-22.52

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Operation Mode : 802.11a UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



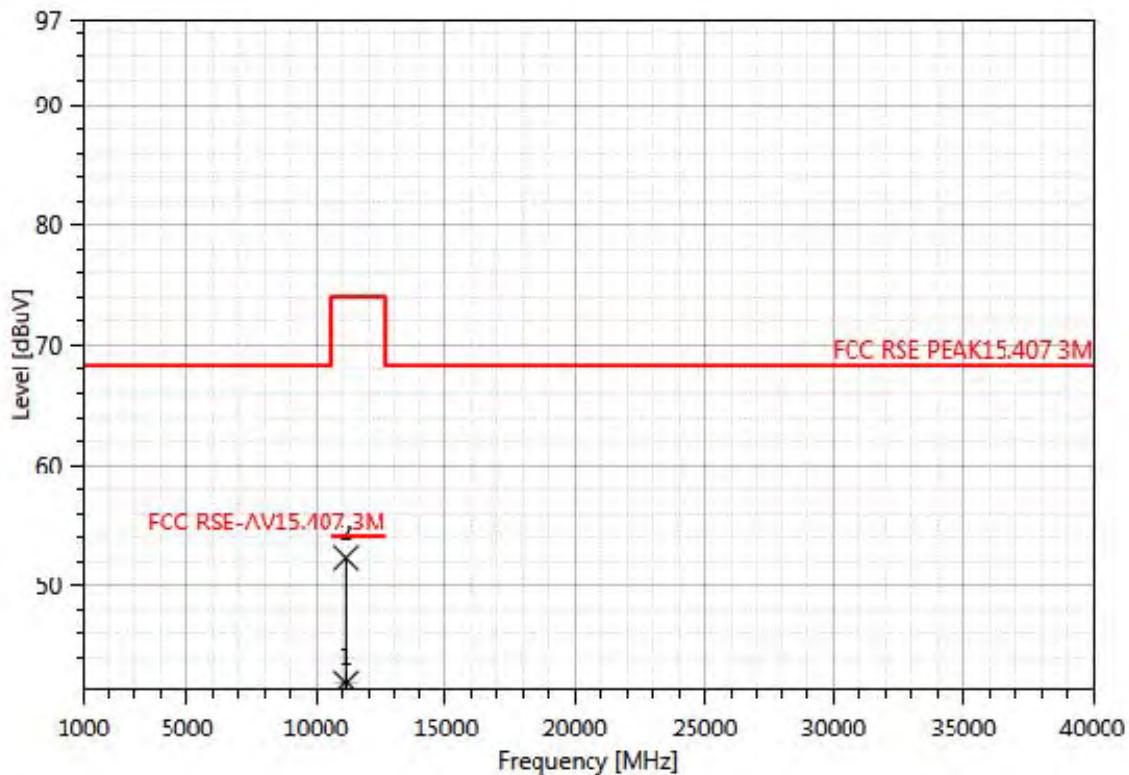
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11000.00	H	Average	41.46	21.29	20.17	54.00	54.00	-12.54
11000.00	H	Peak	51.52	31.35	20.17	74.00	74.00	-22.48

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Operation Mode : 802.11a UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11160.00	H	Average	41.91	21.46	20.45	54.00	-12.09	
11160.00	H	Peak	52.28	31.83	20.45	74.00	-21.72	

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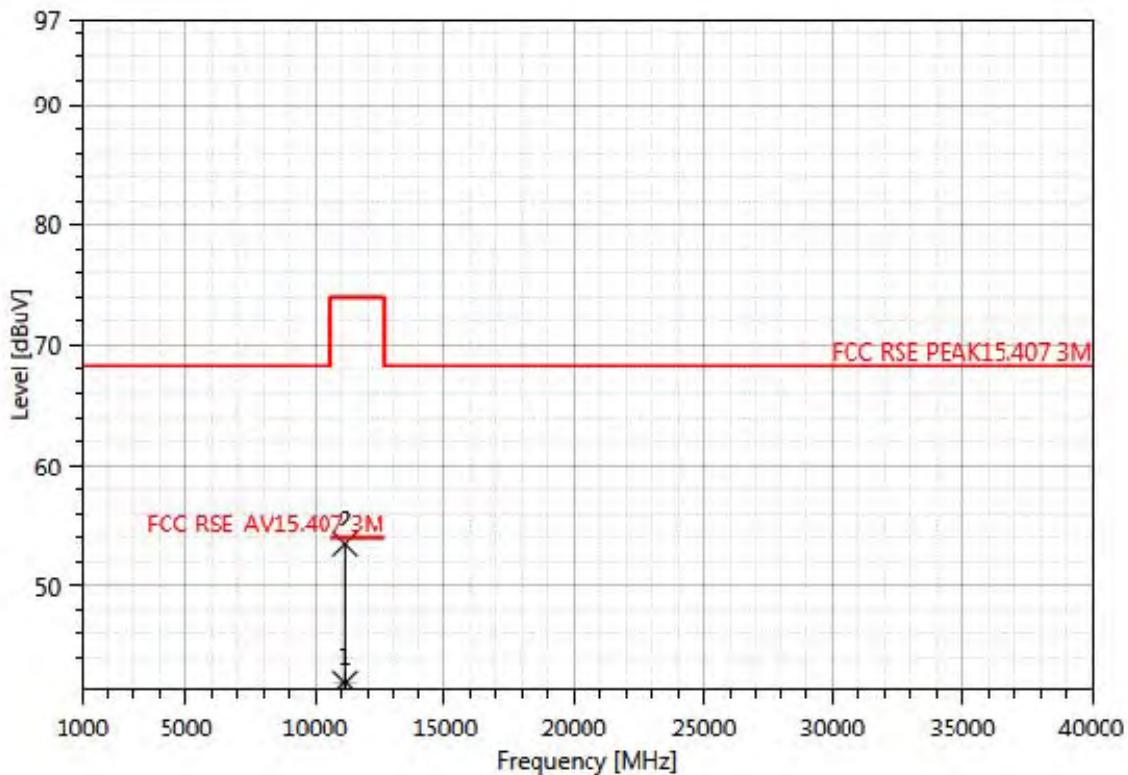
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Operation Mode : 802.11a UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11160.00	H	Average	42.03	21.58	20.45	54.00	-11.97	
11160.00	H	Peak	53.49	33.05	20.45	74.00	-20.51	

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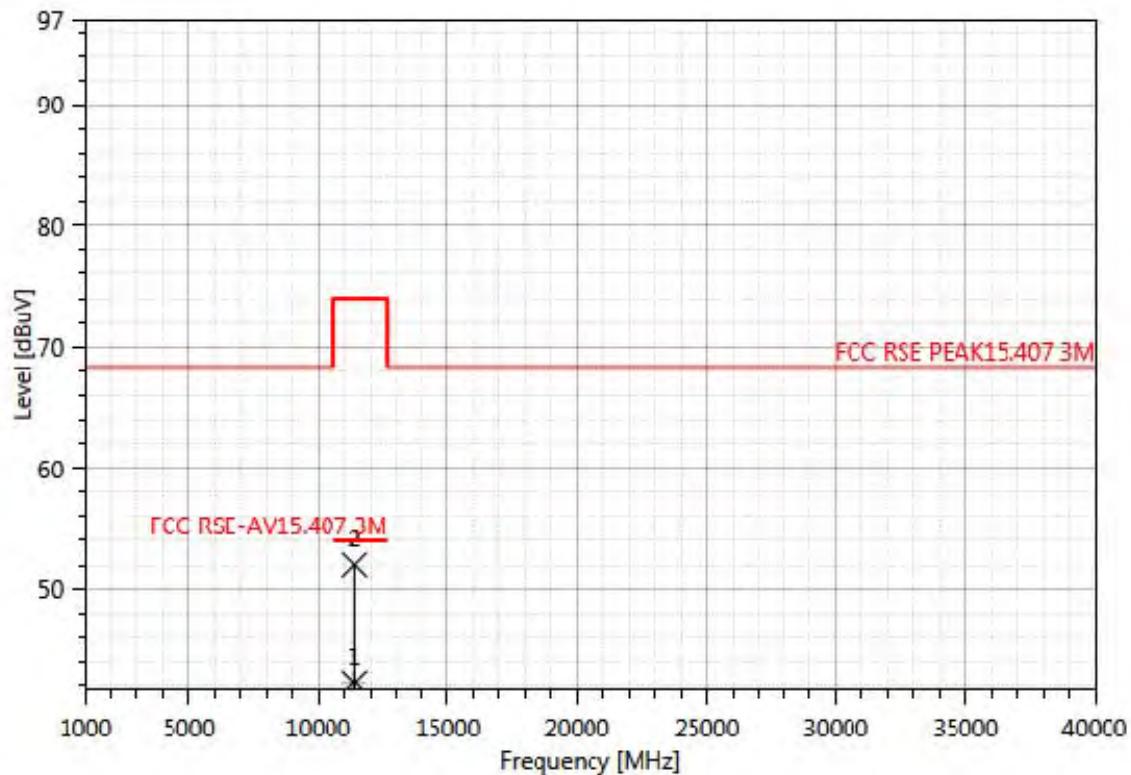
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Operation Mode : 802.11a UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



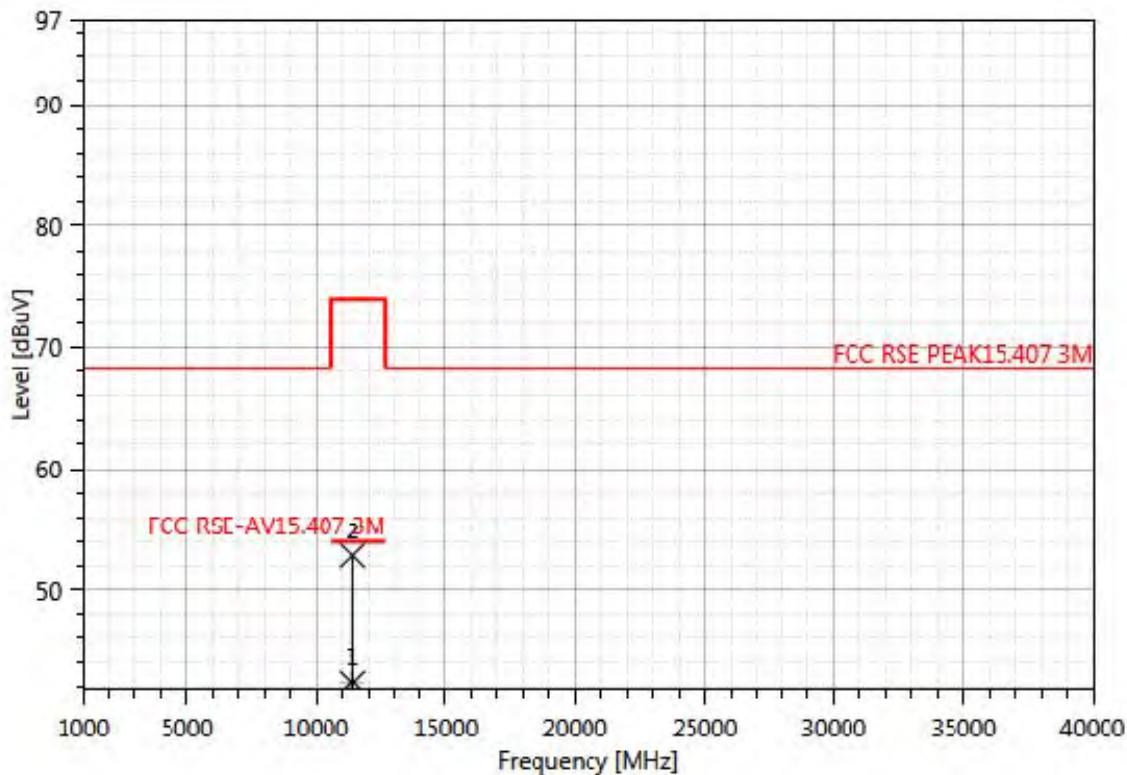
Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	Level	FS	@3m	
		QP/AV/PK	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
11400.00	H	Average	42.30	21.74	20.56	54.00	-11.70
11400.00	H	Peak	52.04	31.48	20.56	74.00	-21.96

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Operation Mode : 802.11a UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11400.00	H	Average	42.40	21.84	20.56	54.00	54.00	-11.60
11400.00	H	Peak	52.87	32.31	20.56	74.00	74.00	-21.13

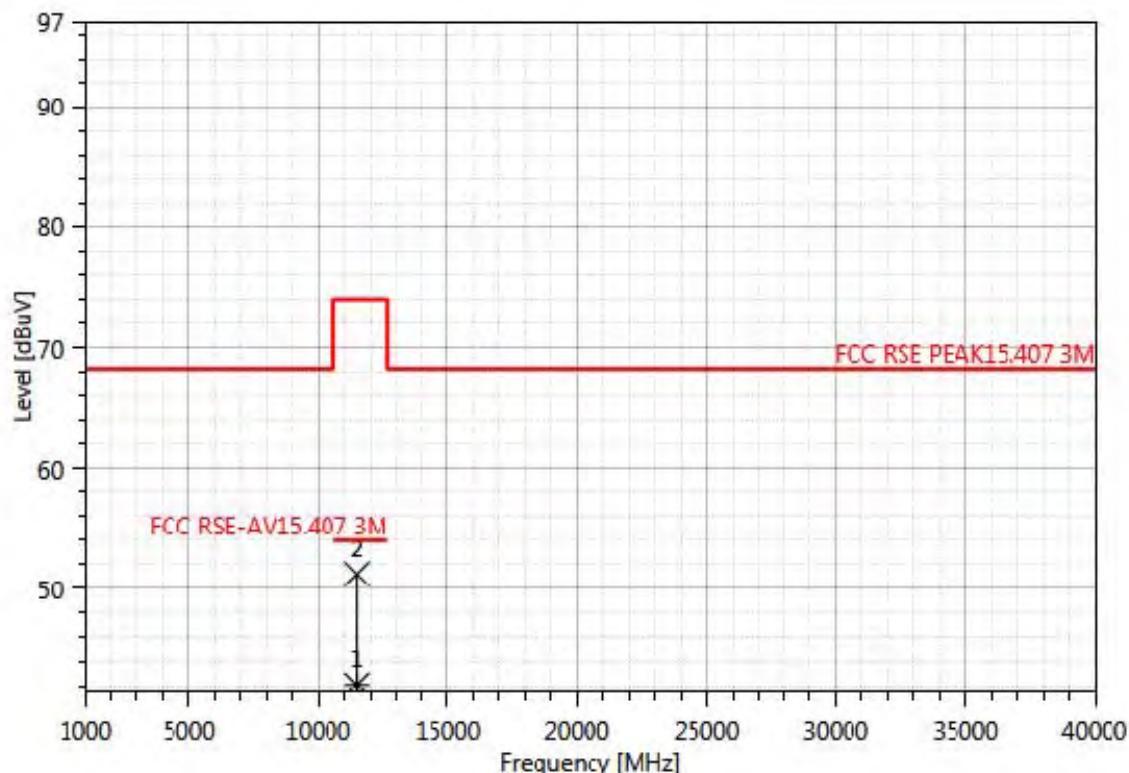
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode : 802.11a UNII-3 Test Date : 11/02/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



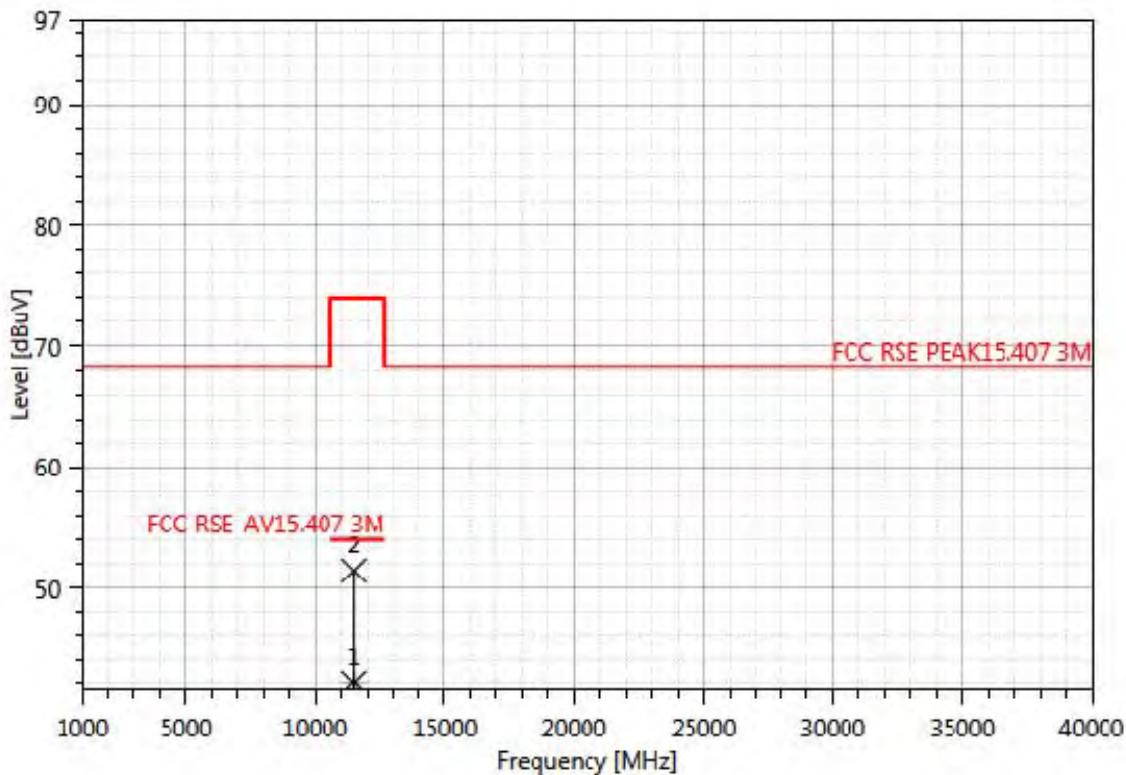
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11490.00	H	Average	42.07	21.65	20.42	54.00	-11.93
11490.00	H	Peak	51.23	30.81	20.42	74.00	-22.77

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Operation Mode : 802.11a UNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH LOW Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11490.00	H	Average	42.20	21.78	20.42	54.00	54.00	-11.80
11490.00	H	Peak	51.44	31.02	20.42	74.00	74.00	-22.56

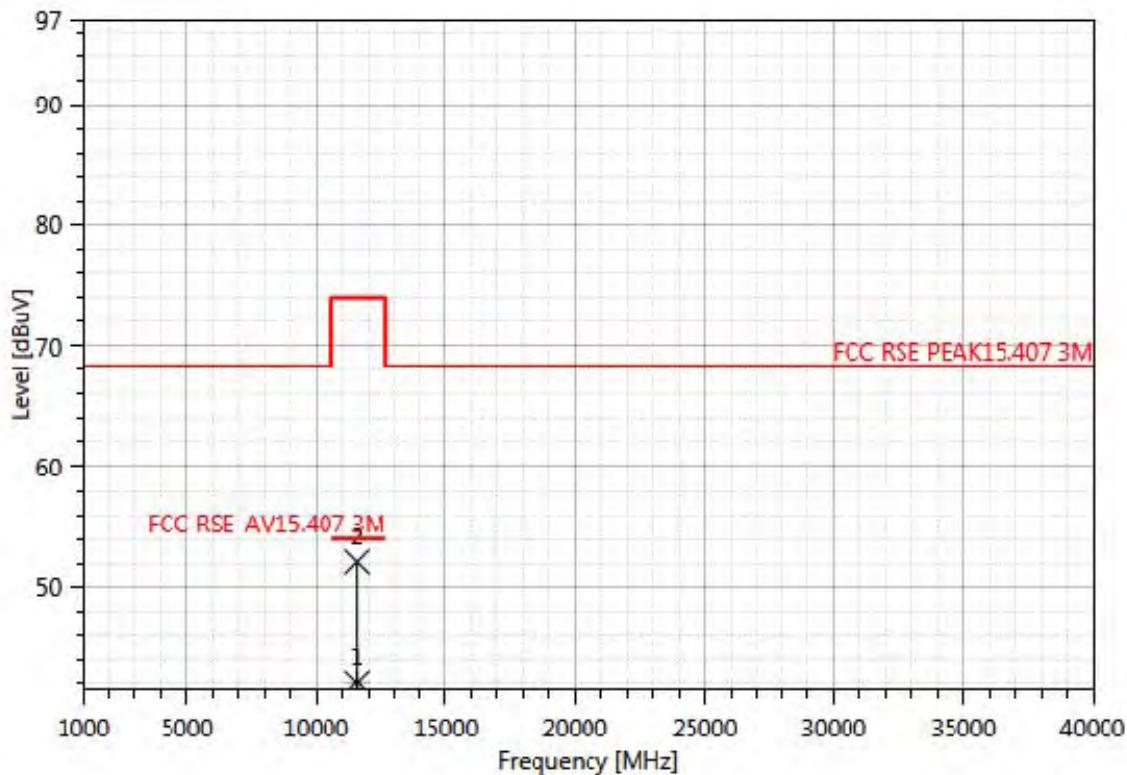
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Operation Mode : 802.11a UNII-3 Test Date : 11/02/2016
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11570.00	H	Average	42.13	21.54	20.59	54.00	-11.87	
11570.00	H	Peak	52.14	31.55	20.59	74.00	-21.86	

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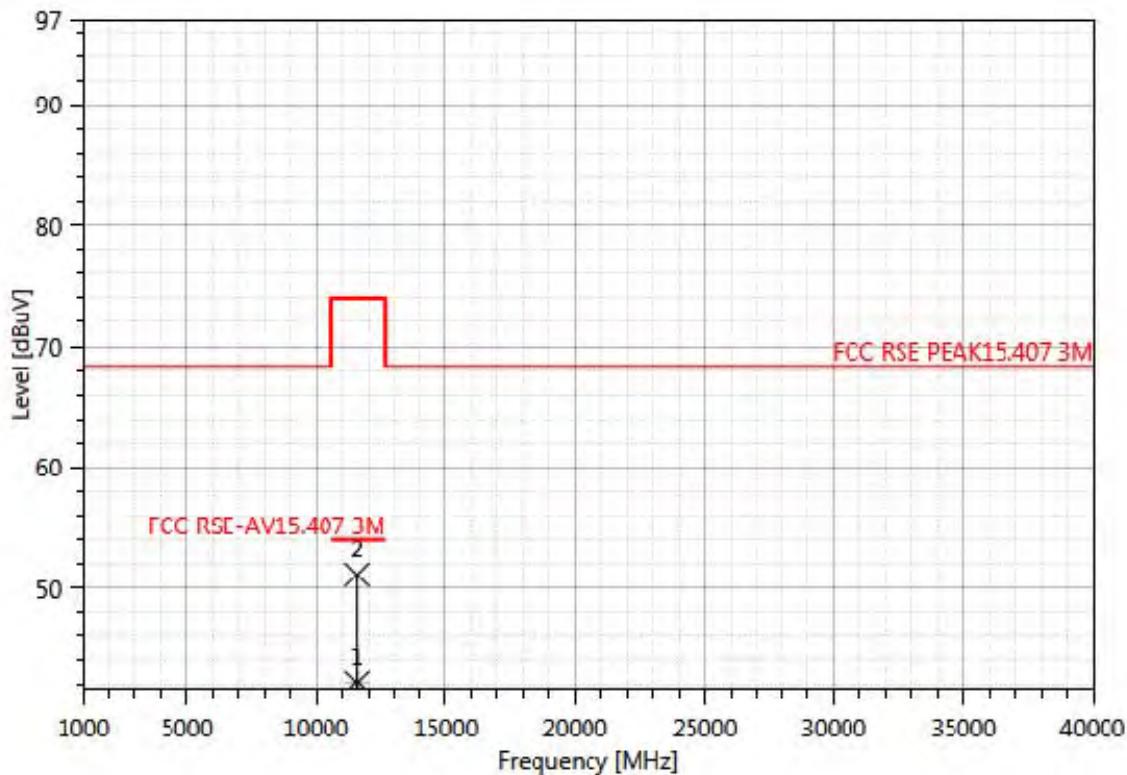
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Operation Mode : 802.11a UNII-3 Test Date : 11/02/2016
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11570.00	H	Average	42.23	21.64	20.59	54.00	-11.77	
11570.00	H	Peak	51.14	30.55	20.59	74.00	-22.86	

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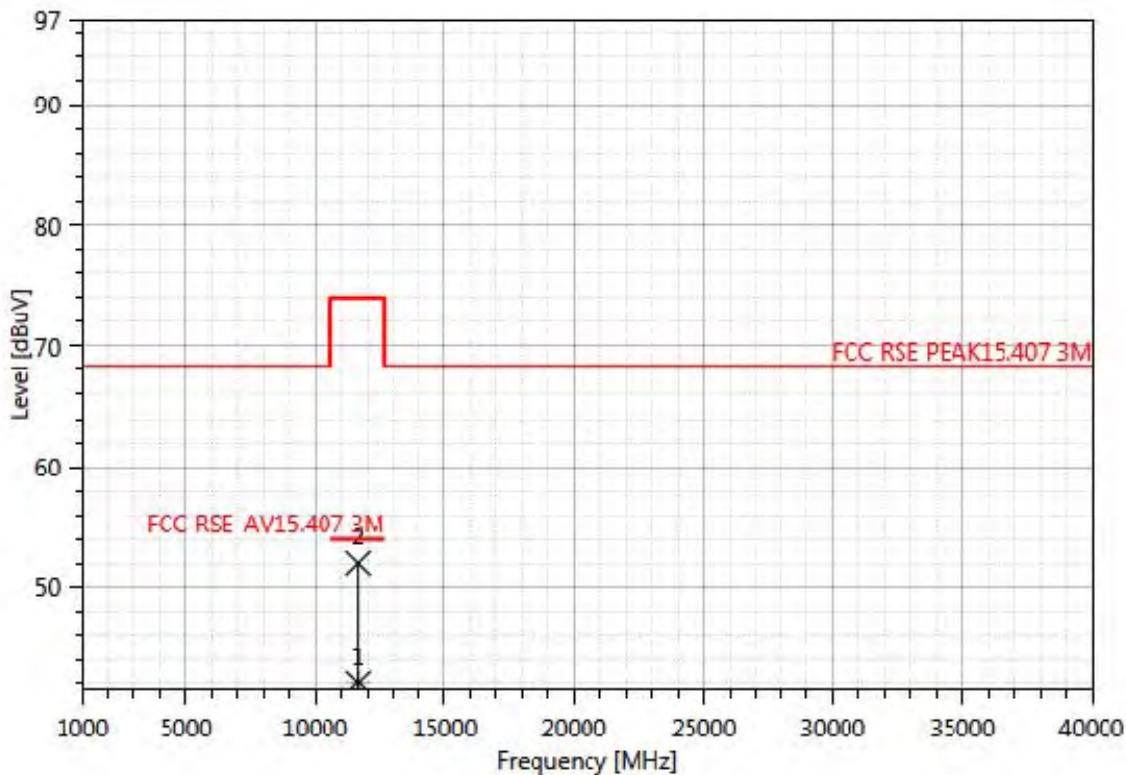
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Operation Mode : 802.11a UNII-3 Test Date : 11/02/2016
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



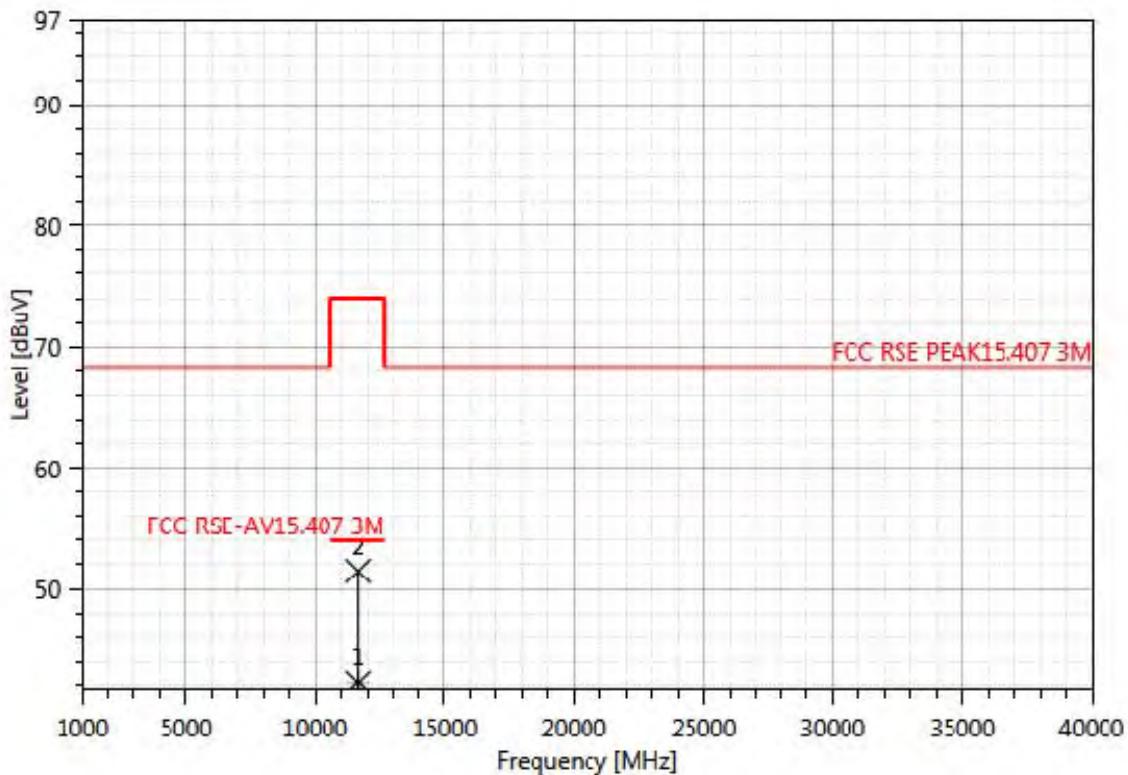
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11650.00	H	Average	42.17	21.74	20.43	54.00	-11.83	
11650.00	H	Peak	52.07	31.64	20.43	74.00	-21.93	

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Operation Mode : 802.11a UNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11650.00	H	Average	42.28	21.85	20.43	54.00	-11.72	
11650.00	H	Peak	51.48	31.04	20.43	74.00	-22.52	

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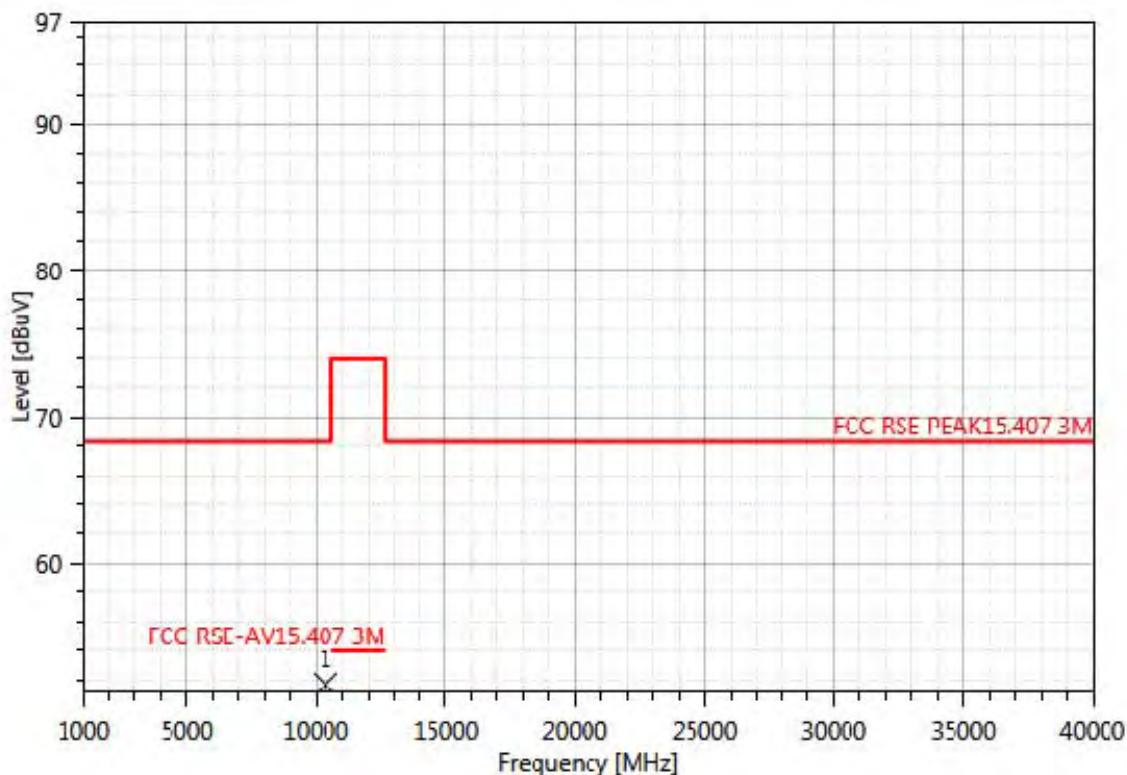
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode : 802.11n20UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



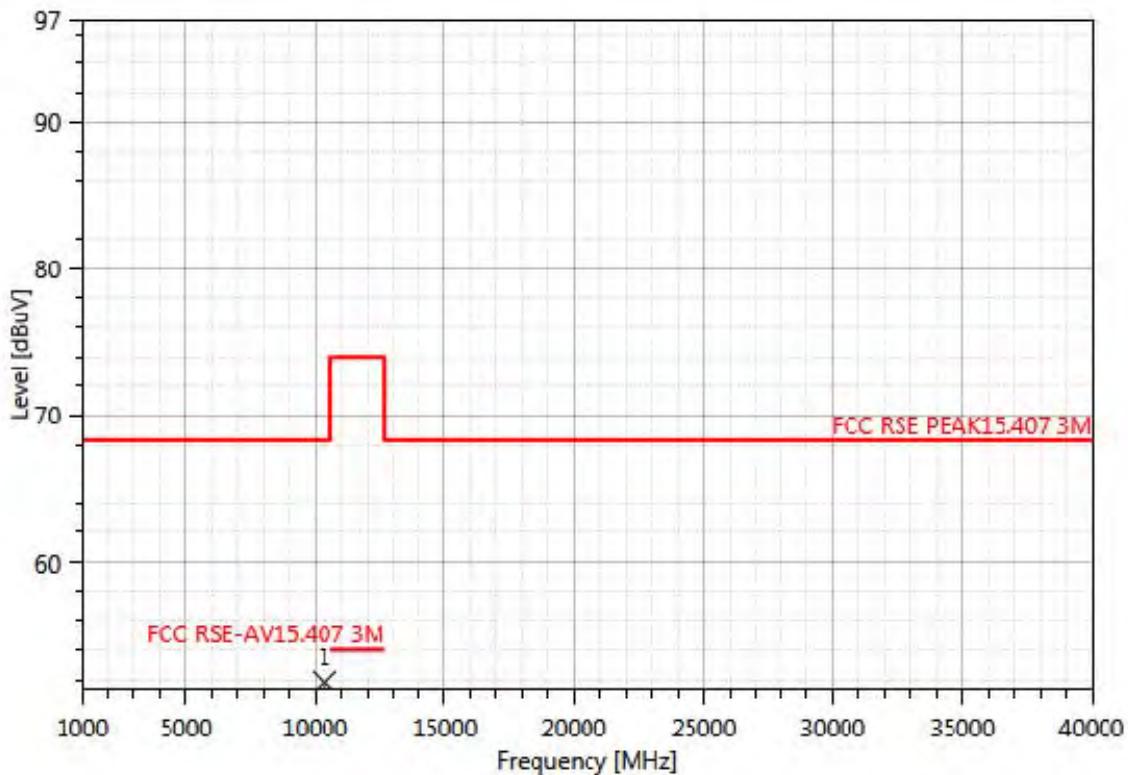
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	51.68	33.39	18.29	68.30	-16.62

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Operation Mode : 802.11n20UNII-1 Test Date : 11/02/2016
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH LOW Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



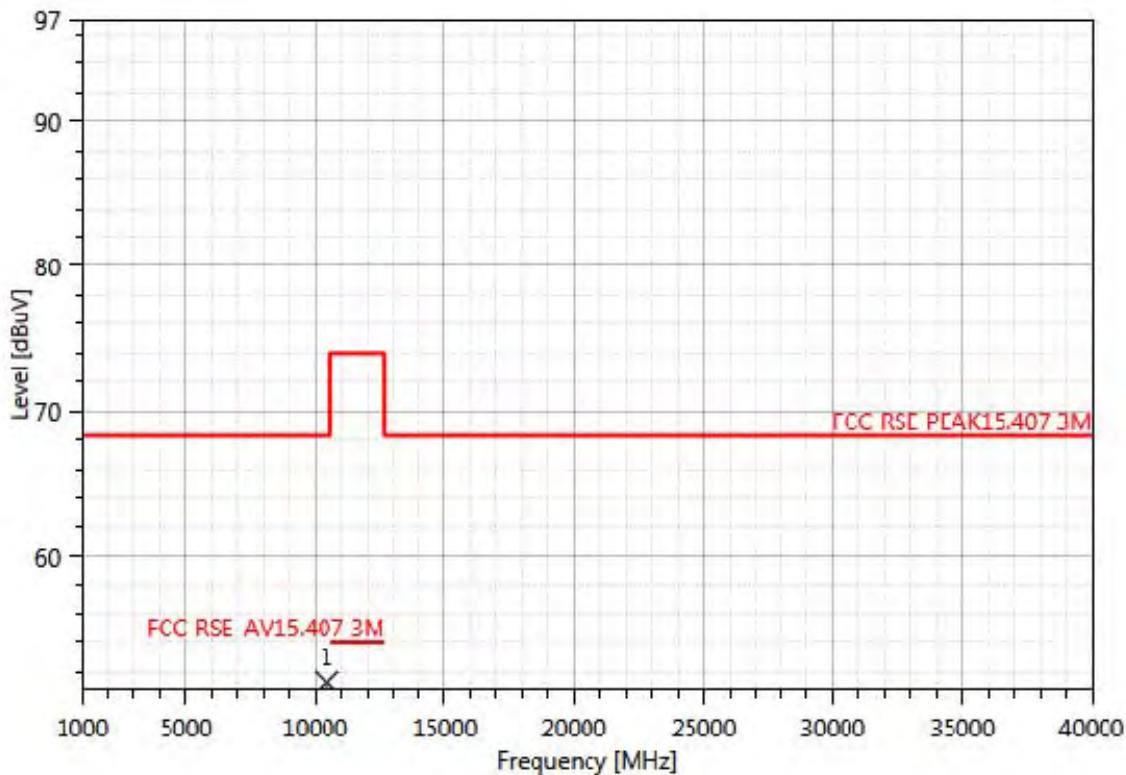
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	51.78	33.49	18.29	68.30	-16.52

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Operation Mode : 802.11n20UNII-1 Test Date : 11/02/2016
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH MID Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



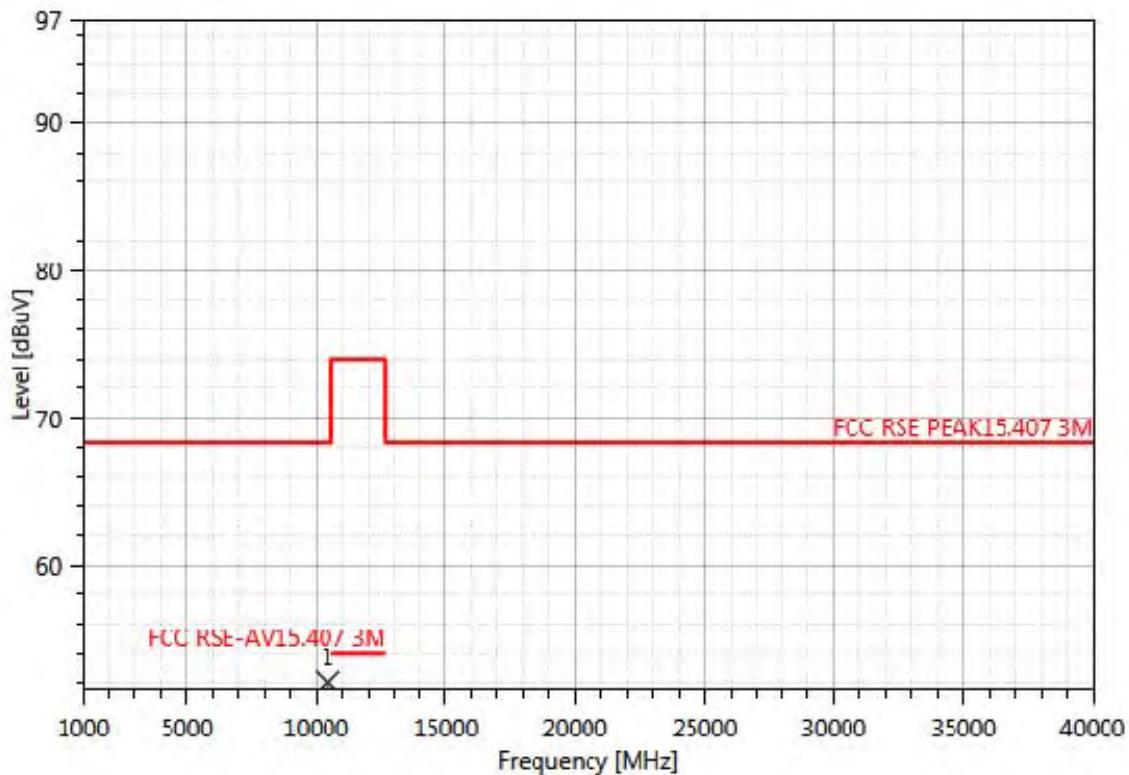
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10440.00	H	Peak	51.27	32.59	18.68	68.30	-17.03

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Operation Mode : 802.11n20UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	
		QP/AV/PK	Level	dB μ V/m		dBuV/m	dB
10440.00	H	Peak	52.05	33.36	18.68	68.30	-16.25

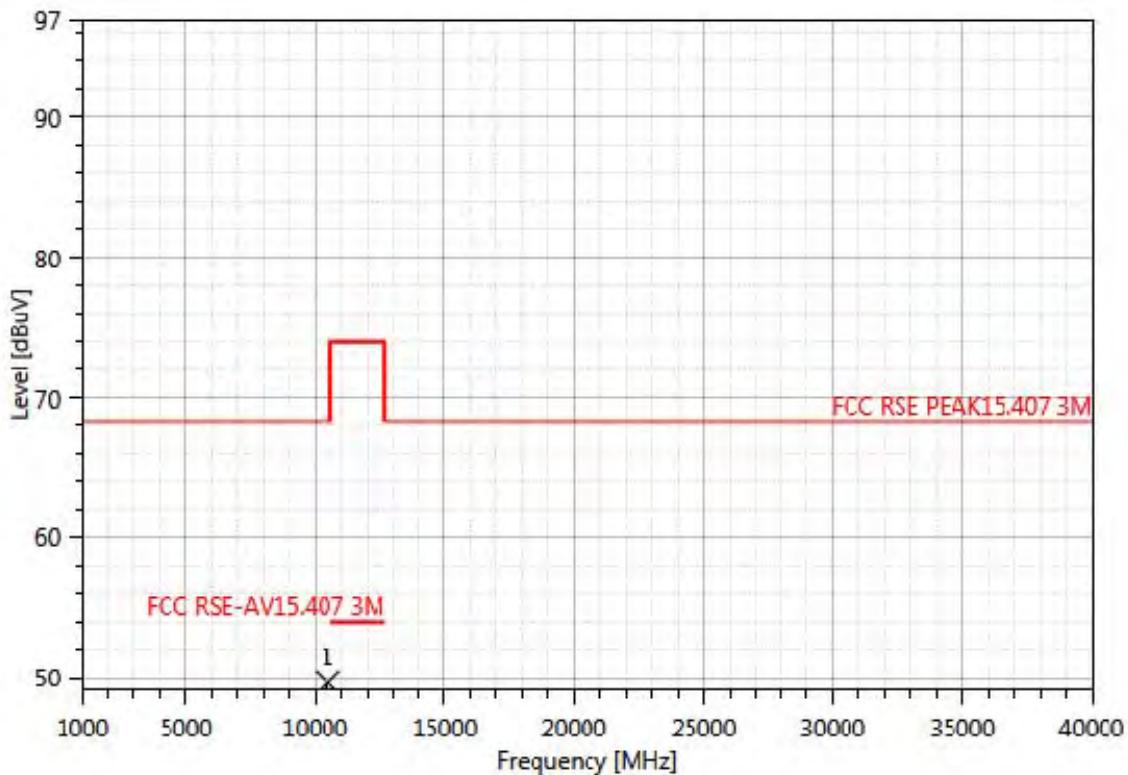
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Operation Mode : 802.11n20UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	dBuV/m
		QP/AV/PK	Level	dB μ V/m			
10480.00	H	Peak	49.66	31.36	18.29	68.30	-18.64

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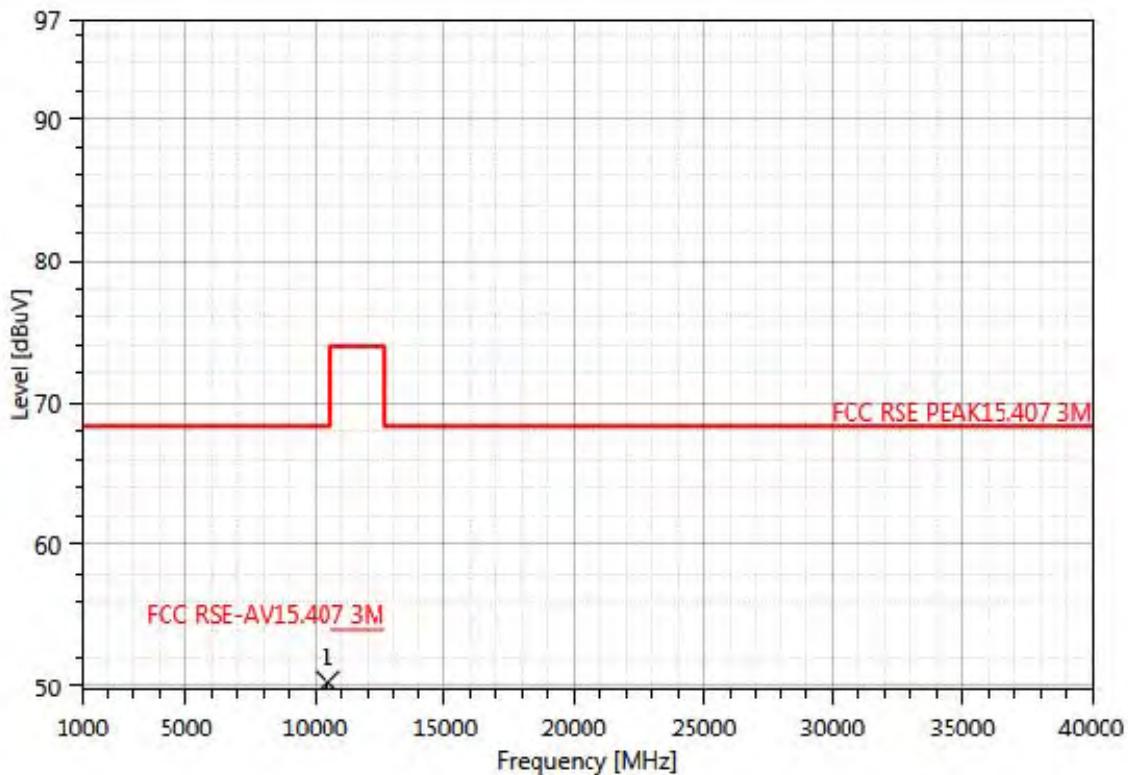
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Operation Mode : 802.11n20UNII-1 Test Date : 11/02/2016
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10480.00	H	Peak	50.29	31.99	18.29	68.30	-18.01

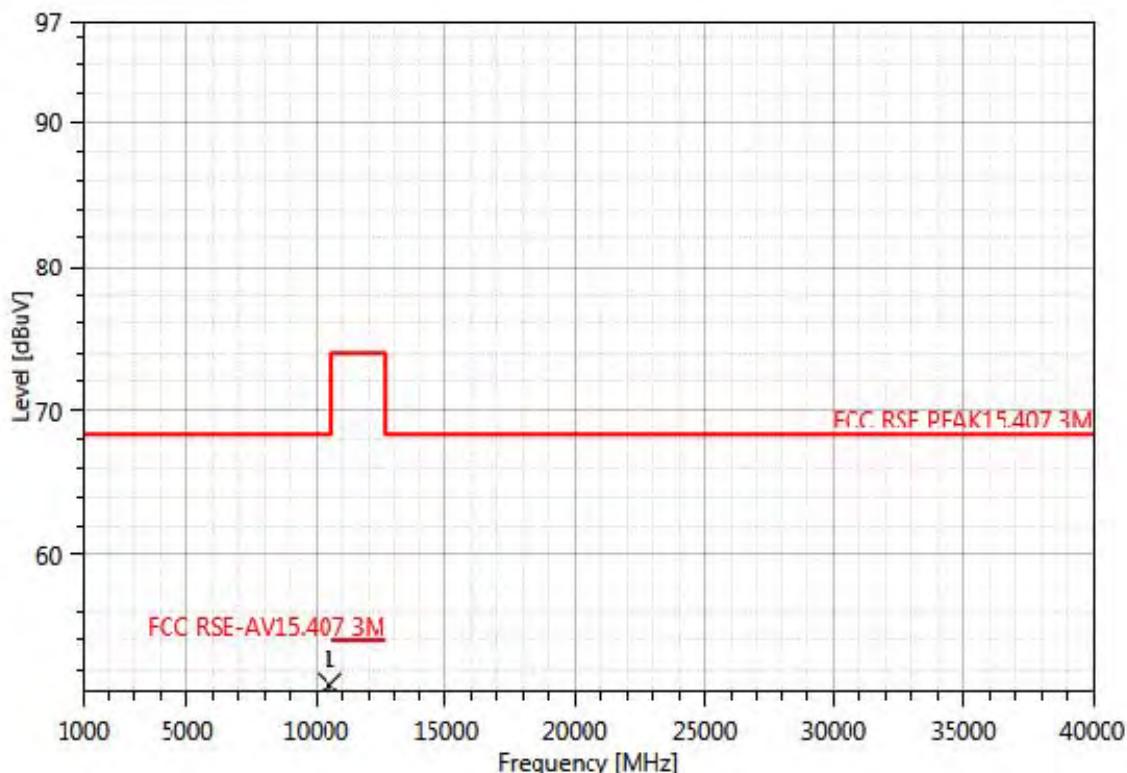
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode : 802.11n20UNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



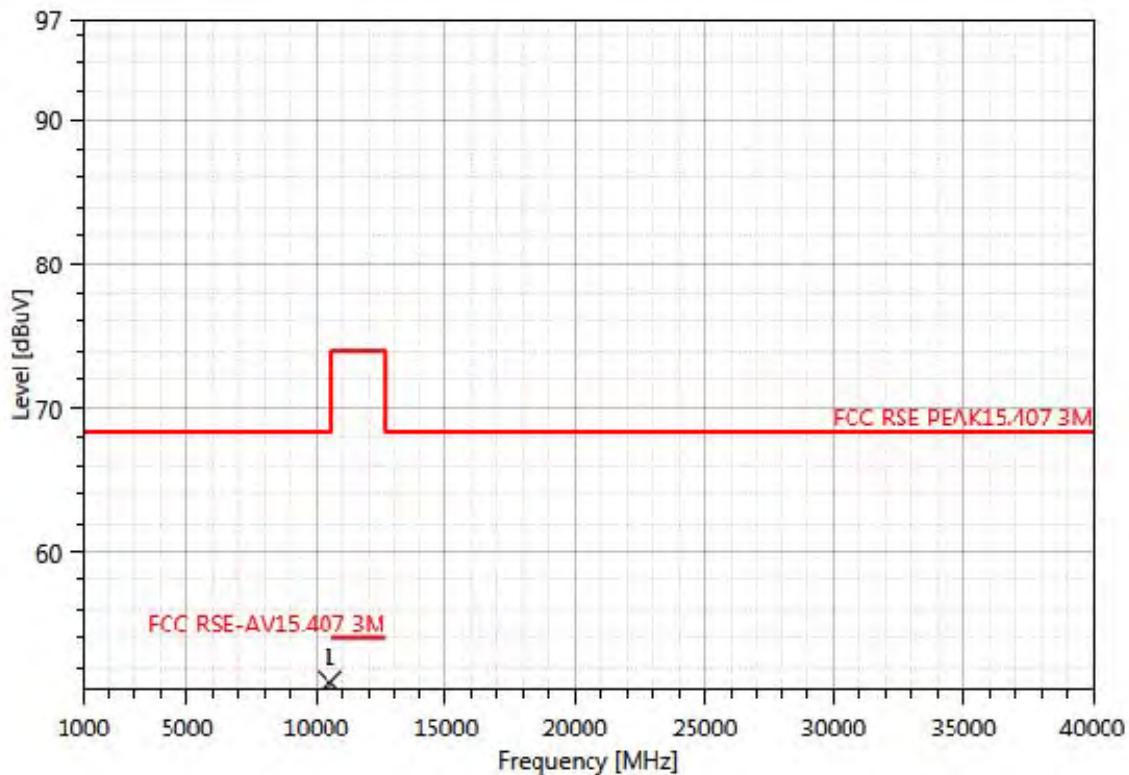
Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	
		QP/AV/PK	Level	dB μ V/m		dBuV/m	dB
10520.00	H	Peak	50.98	31.60	19.37	68.30	-17.32

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Operation Mode : 802.11n20UNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



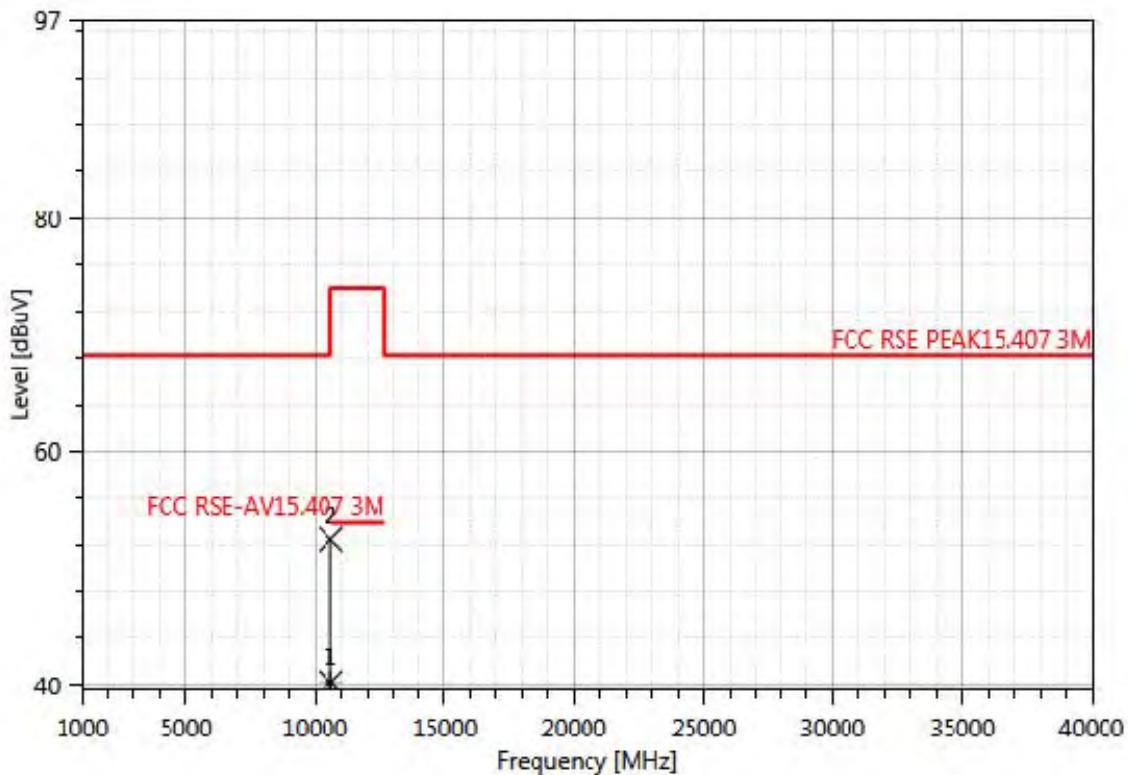
Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	dBuV/m
10520.00	H	Peak	50.93	31.56	19.37	68.30	-17.37

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Operation Mode : 802.11n20UNII-2A Test Date : 11/02/2016
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH MID Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
10600.00	H	Average	40.23	21.32	18.91	54.00	54.00	-13.77
10600.00	H	Peak	52.45	33.54	18.91	74.00	74.00	-21.55

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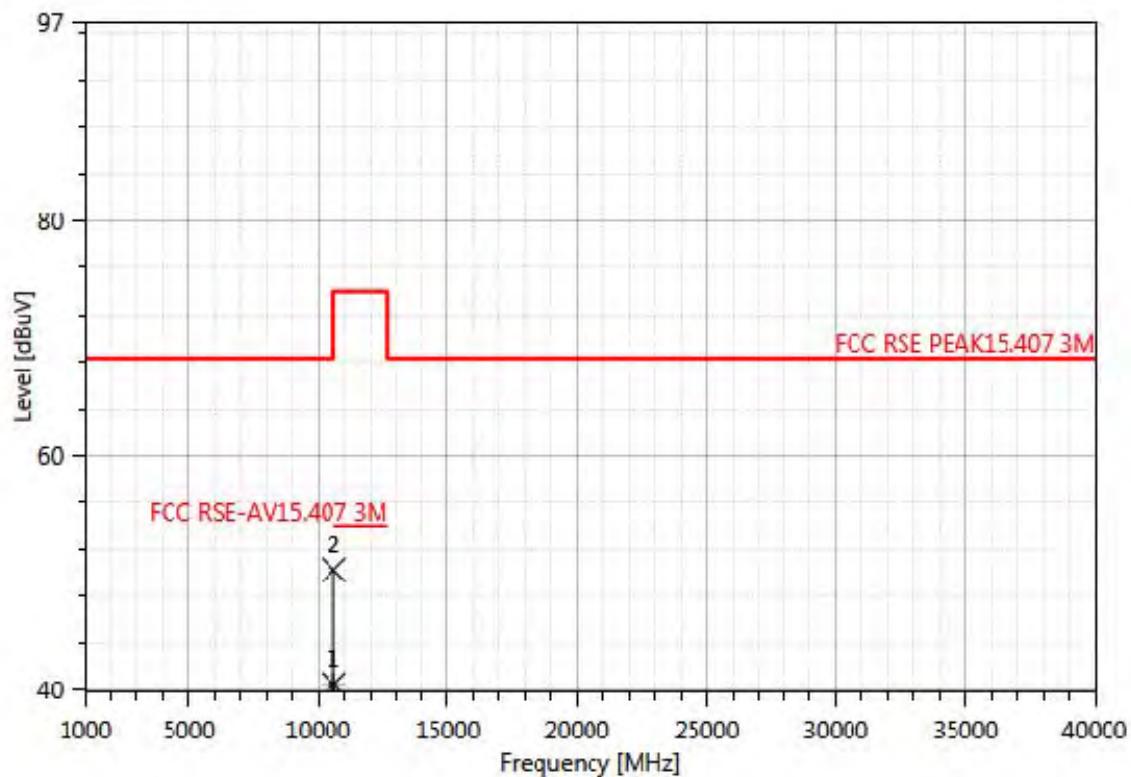
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Operation Mode : 802.11n20UNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
10600.00	H	Average	40.47	21.56	18.91	54.00	-13.53	
10600.00	H	Peak	50.25	31.34	18.91	74.00	-23.75	

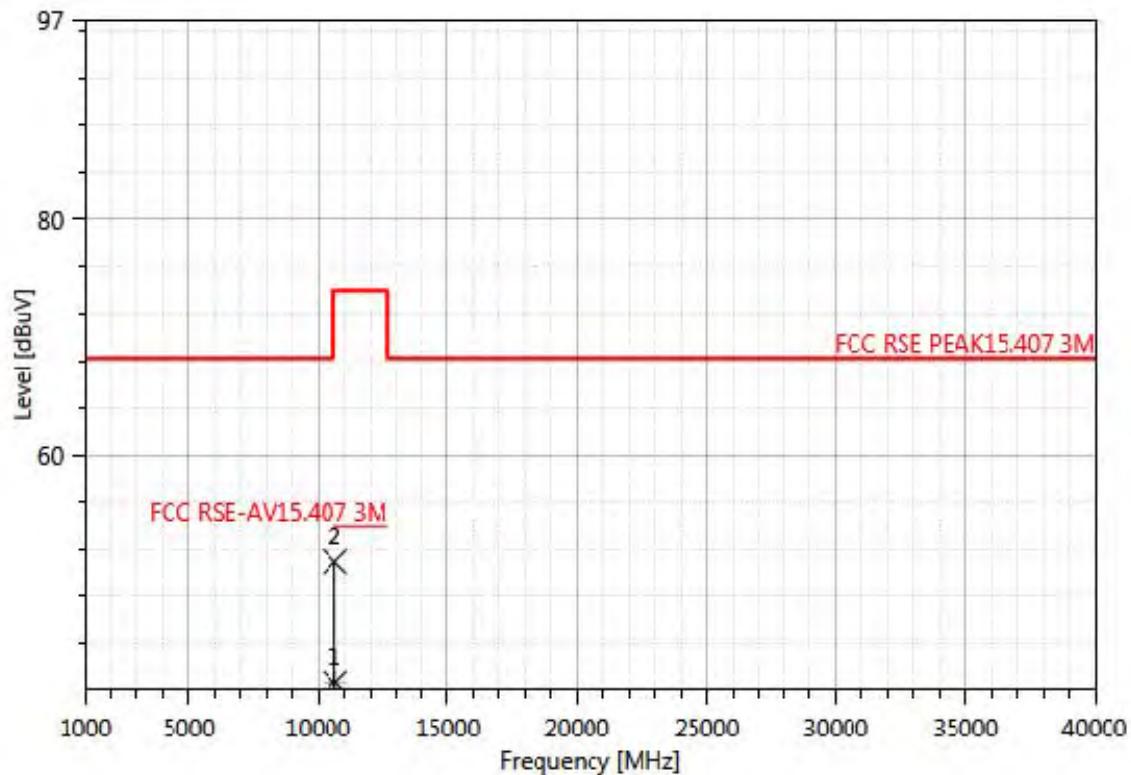
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Operation Mode : 802.11n20UNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
10640.00	H	Average	40.73	21.55	19.18	54.00	54.00	-13.27
10640.00	H	Peak	51.02	31.83	19.18	74.00	74.00	-22.98

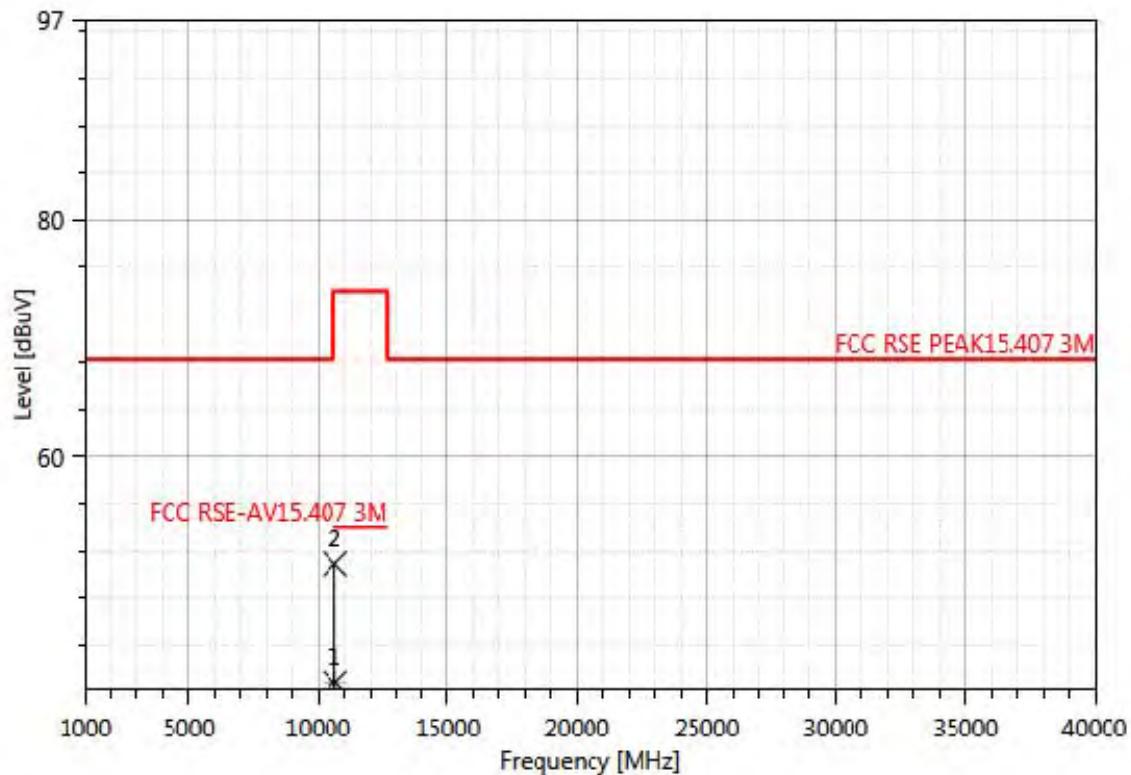
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Operation Mode : 802.11n20UNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
10640.00	H	Average	40.86	21.68	19.18	54.00	-13.14	
10640.00	H	Peak	50.94	31.76	19.18	74.00	-23.06	

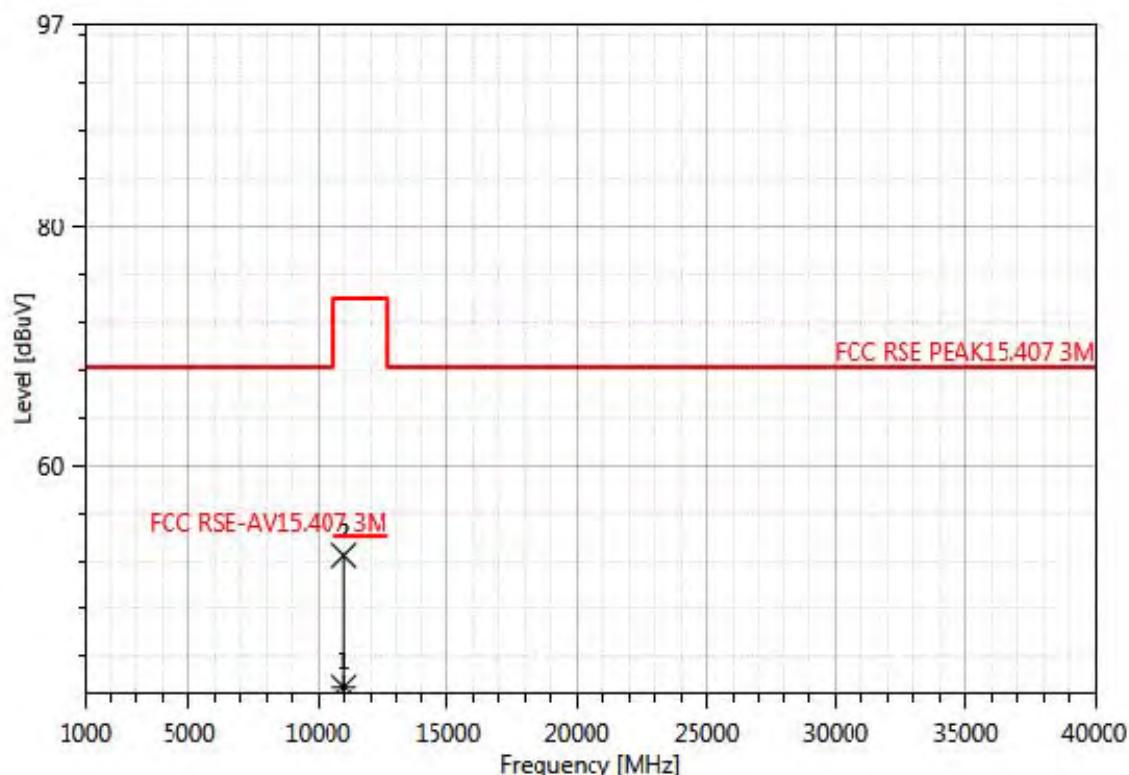
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode : 802.11n20UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



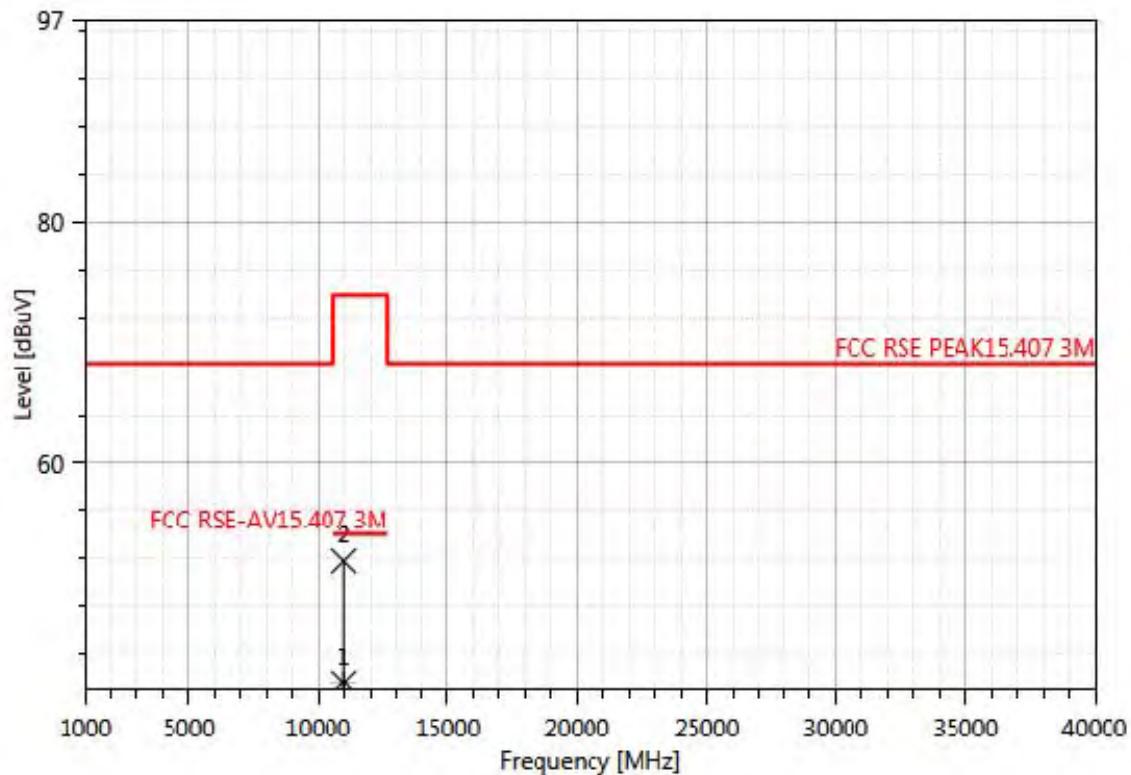
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin
							Margin dB
11000.00	H	Average	41.49	21.32	20.17	54.00	-12.51
11000.00	H	Peak	52.45	32.29	20.17	74.00	-21.55

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Operation Mode : 802.11n20UNII-2C Test Date : 11/02/2016
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH LOW Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11000.00	H	Average	41.61	21.44	20.17	54.00	-12.39	
11000.00	H	Peak	51.79	31.62	20.17	74.00	-22.21	

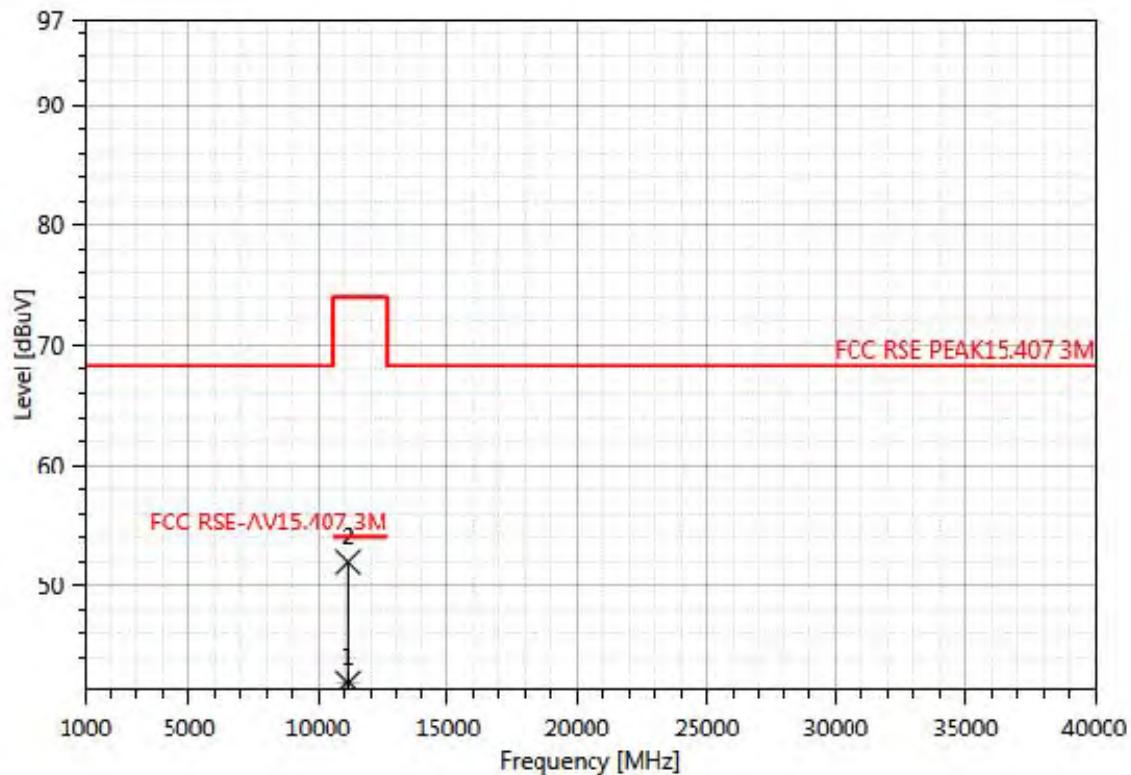
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Operation Mode : 802.11n20UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11160.00	H	Average	41.96	21.51	20.45	54.00	54.00	-12.04
11160.00	H	Peak	51.98	31.54	20.45	74.00	74.00	-22.02

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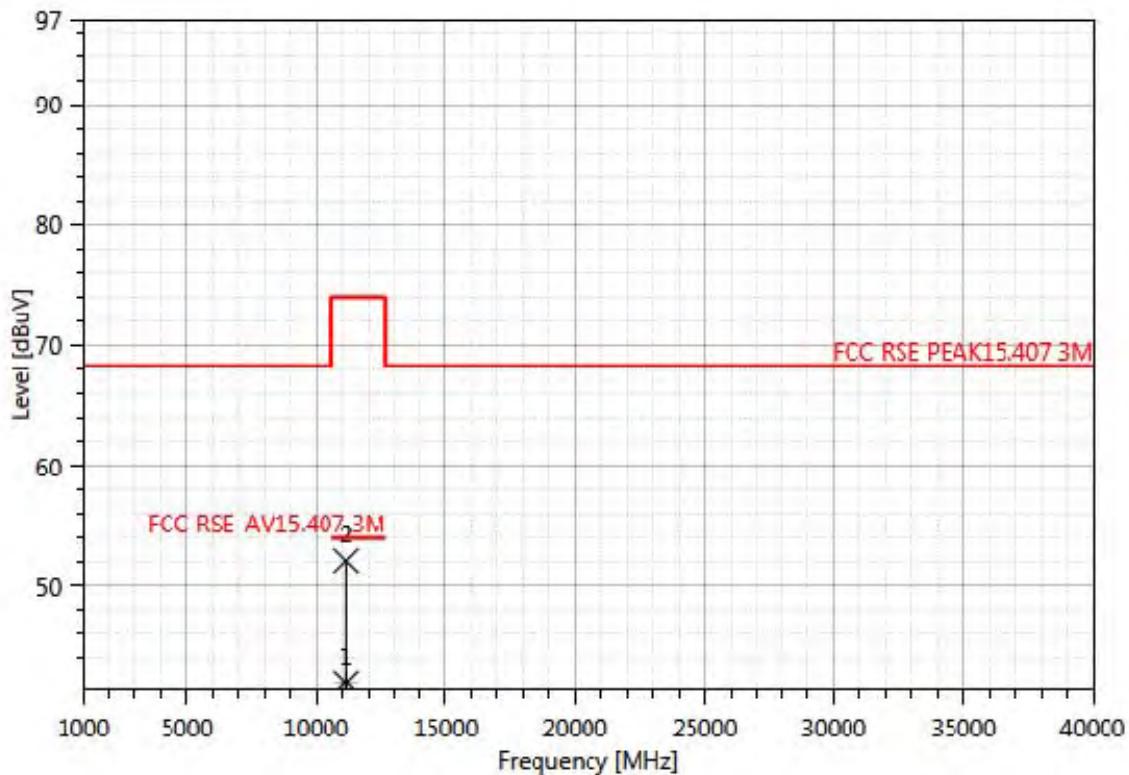
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Operation Mode : 802.11n20UNII-2C Test Date : 11/02/2016
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH MID Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11160.00	H	Average	42.05	21.60	20.45	54.00	-11.95	
11160.00	H	Peak	52.16	31.71	20.45	74.00	-21.84	

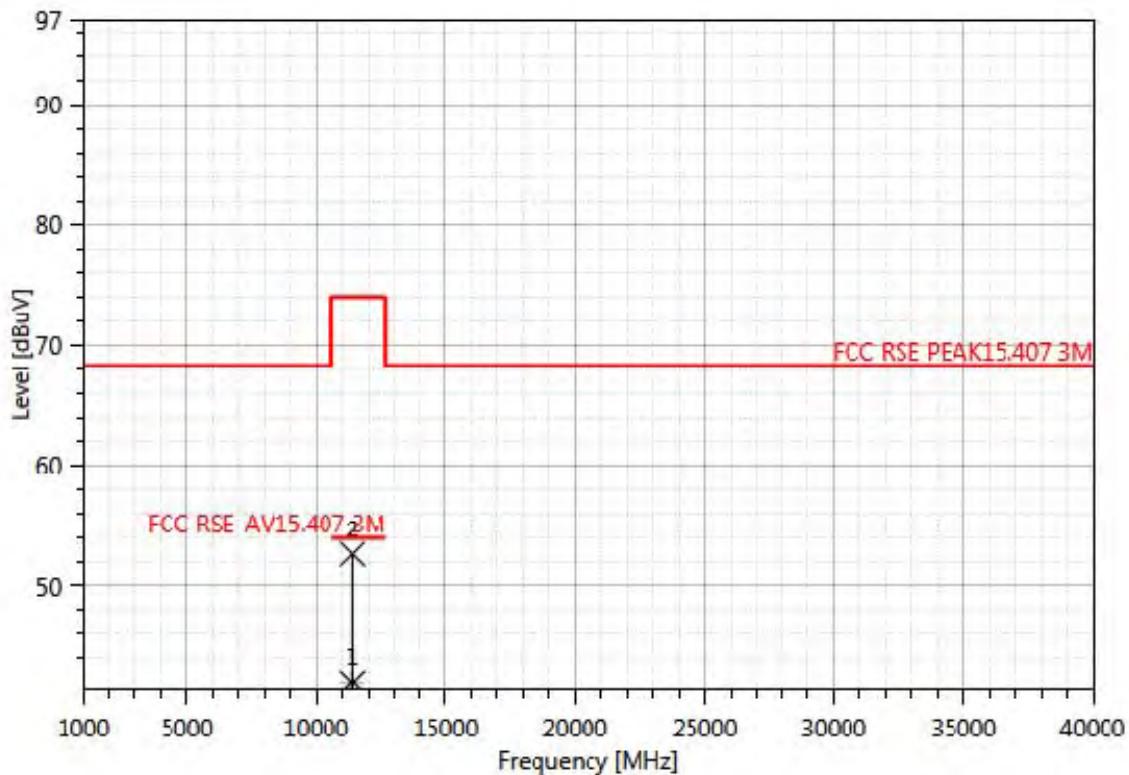
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Operation Mode : 802.11n20UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11400.00	H	Average	42.00	21.44	20.56	54.00	54.00	-12.00
11400.00	H	Peak	52.67	32.11	20.56	74.00	74.00	-21.33

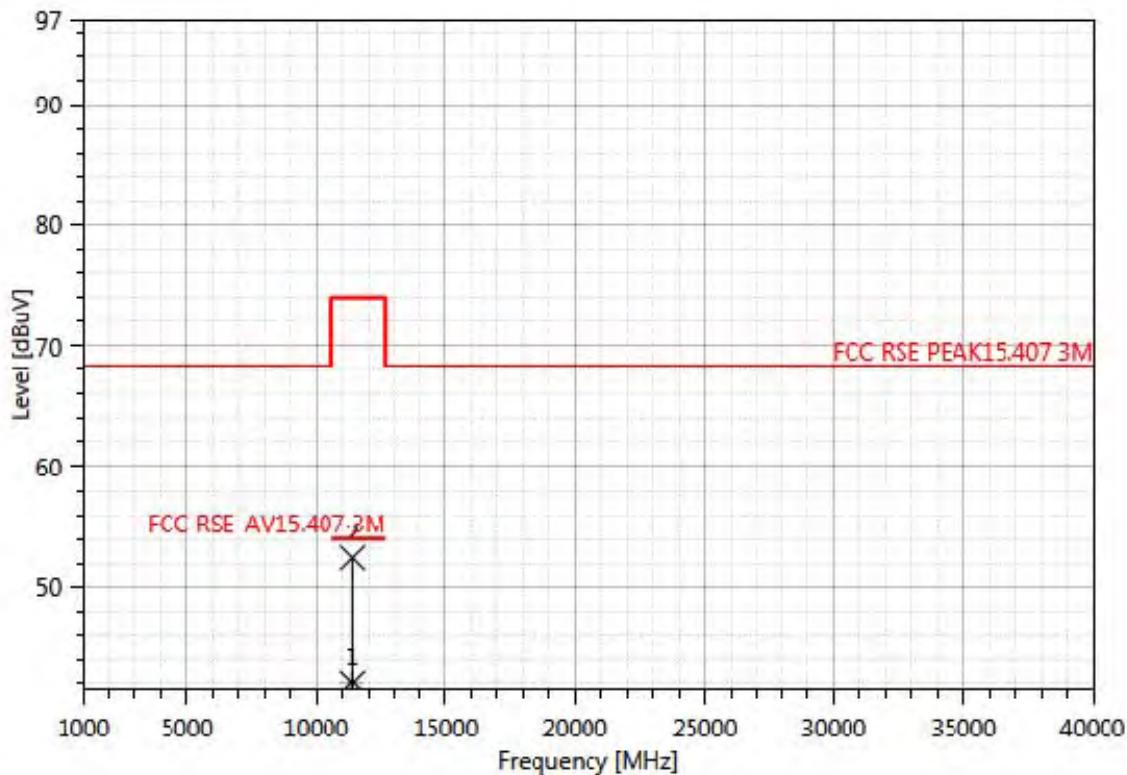
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Operation Mode : 802.11n20UNII-2C Test Date : 11/02/2016
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11400.00	H	Average	42.13	21.57	20.56	54.00	-11.87	
11400.00	H	Peak	52.47	31.91	20.56	74.00	-21.53	

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

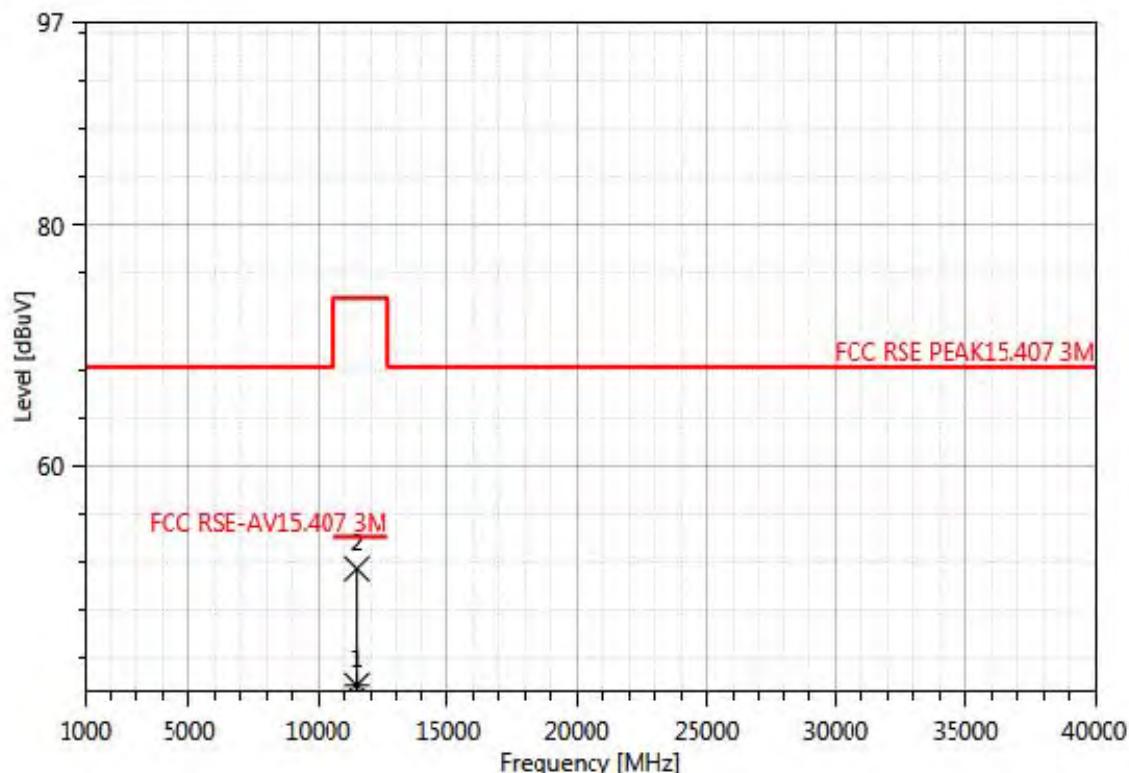
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode : 802.11n20UNII-3 Test Date : 11/02/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



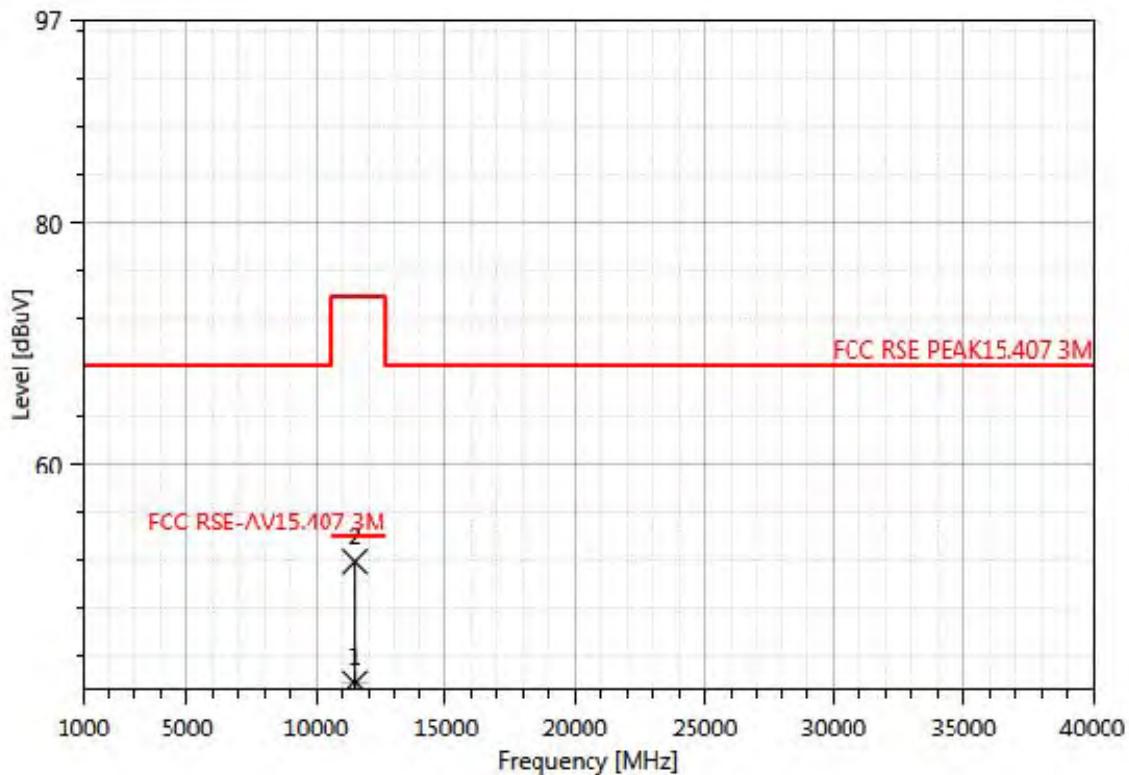
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin
							Margin
11490.00	H	Average	41.75	21.33	20.42	54.00	-12.25
11490.00	H	Peak	51.44	31.02	20.42	74.00	-22.56

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Operation Mode : 802.11n20UNII-3 Test Date : 11/02/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11490.00	H	Average	41.86	21.44	20.42	54.00	-12.14	
11490.00	H	Peak	51.94	31.52	20.42	74.00	-22.06	

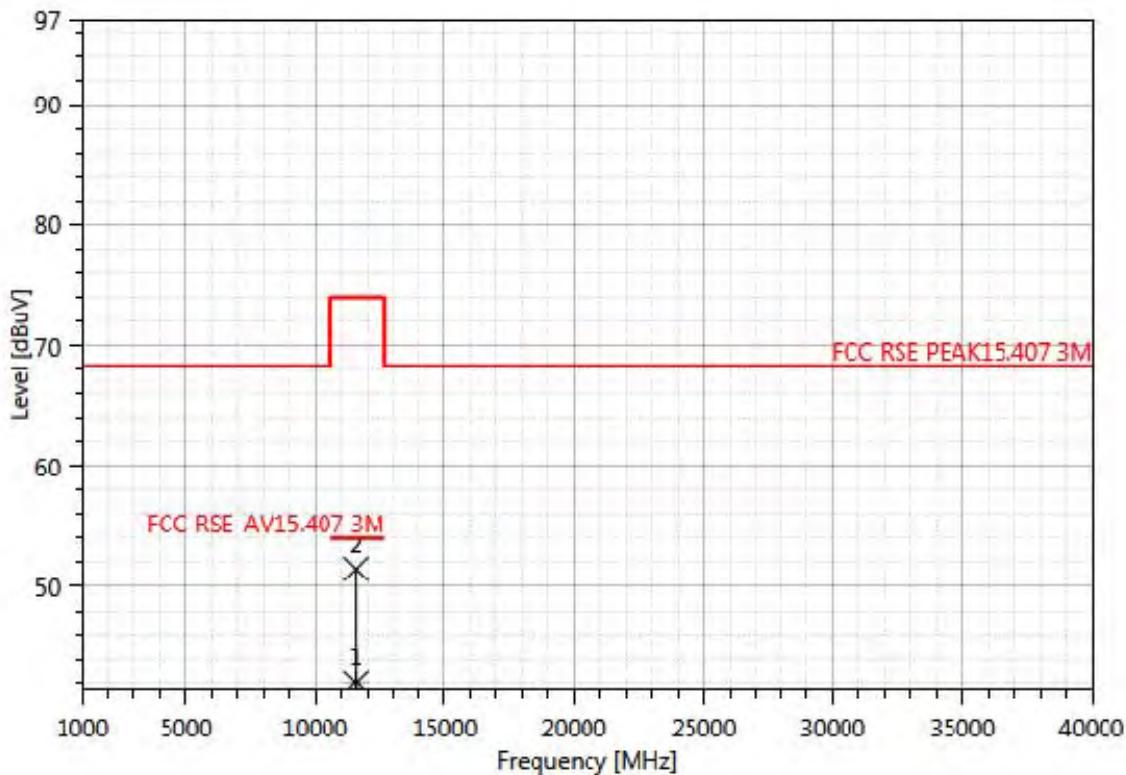
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Operation Mode : 802.11n20UNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH MID Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11570.00	H	Average	42.08	21.49	20.59	54.00	-11.92	
11570.00	H	Peak	51.47	30.89	20.59	74.00	-22.53	

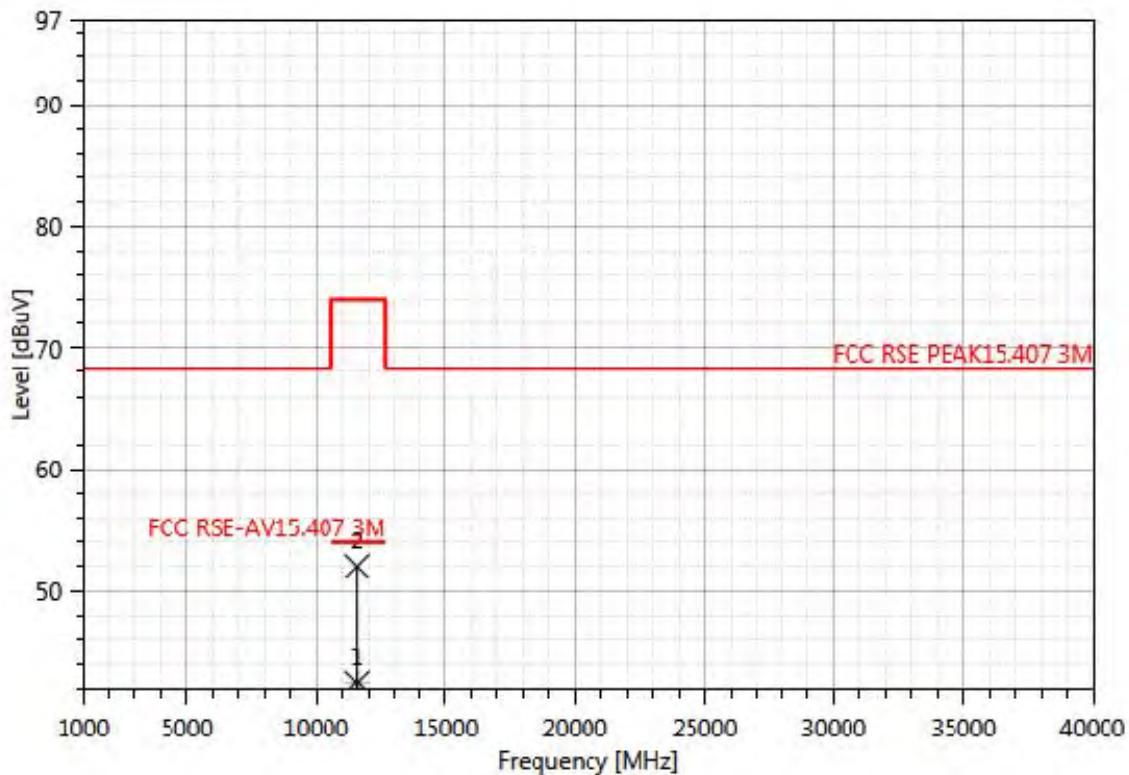
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Operation Mode : 802.11n20UNII-3 Test Date : 11/02/2016
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11570.00	H	Average	42.49	21.90	20.59	54.00	-11.51	
11570.00	H	Peak	52.06	31.47	20.59	74.00	-21.94	

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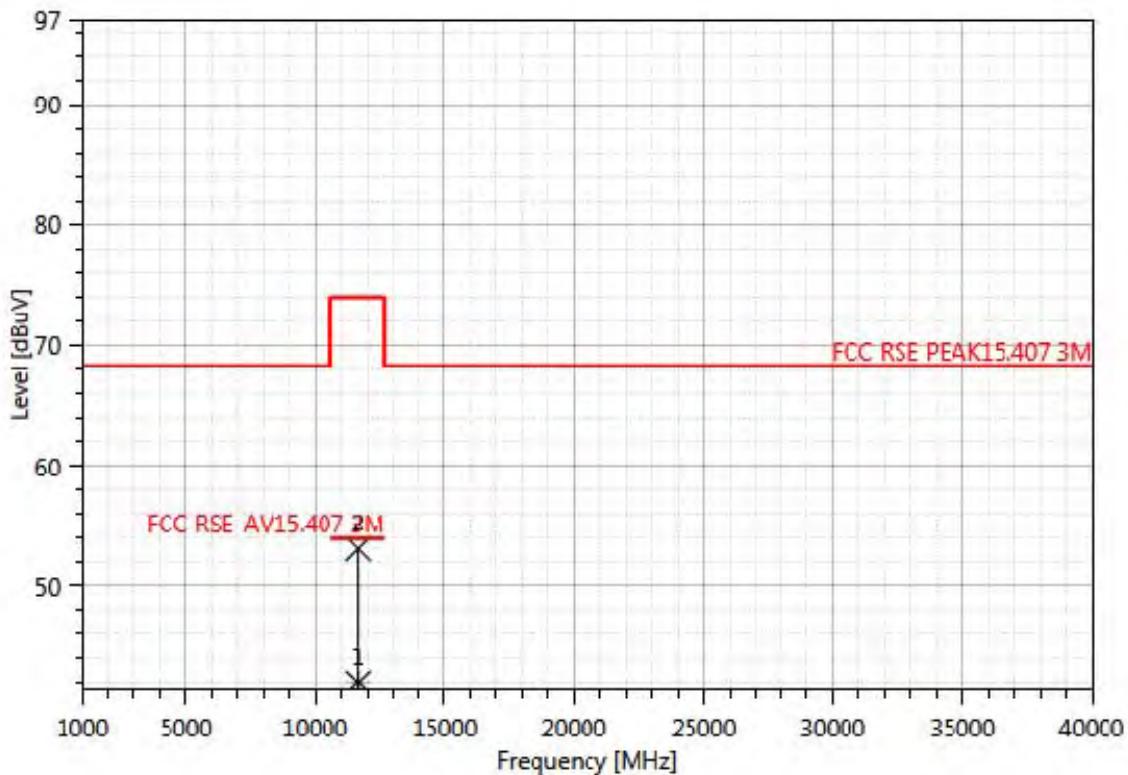
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Operation Mode : 802.11n20B4 Test Date : 11/02/2016
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11650.00	H	Average	42.05	21.62	20.43	54.00	-11.95	
11650.00	H	Peak	53.14	32.70	20.43	74.00	-20.86	

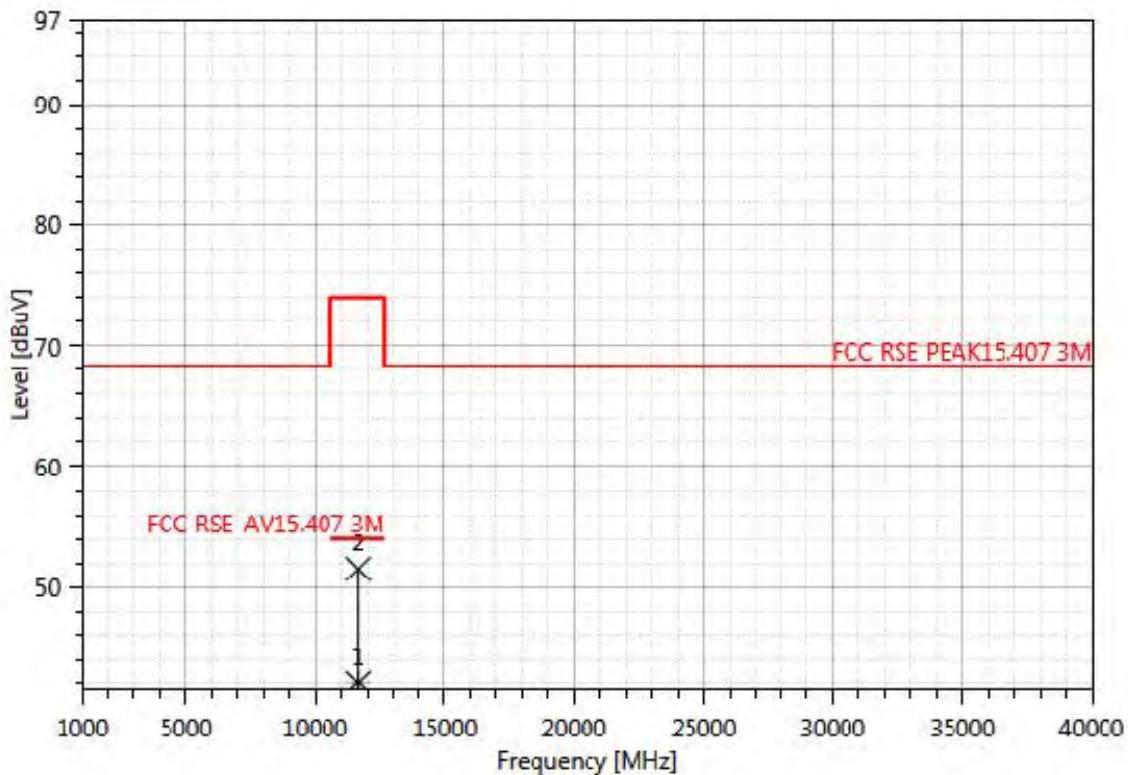
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Operation Mode : 802.11n20B4 Test Date : 11/02/2016
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11650.00	H	Average	42.12	21.69	20.43	54.00	-11.88	
11650.00	H	Peak	51.53	31.10	20.43	74.00	-22.47	

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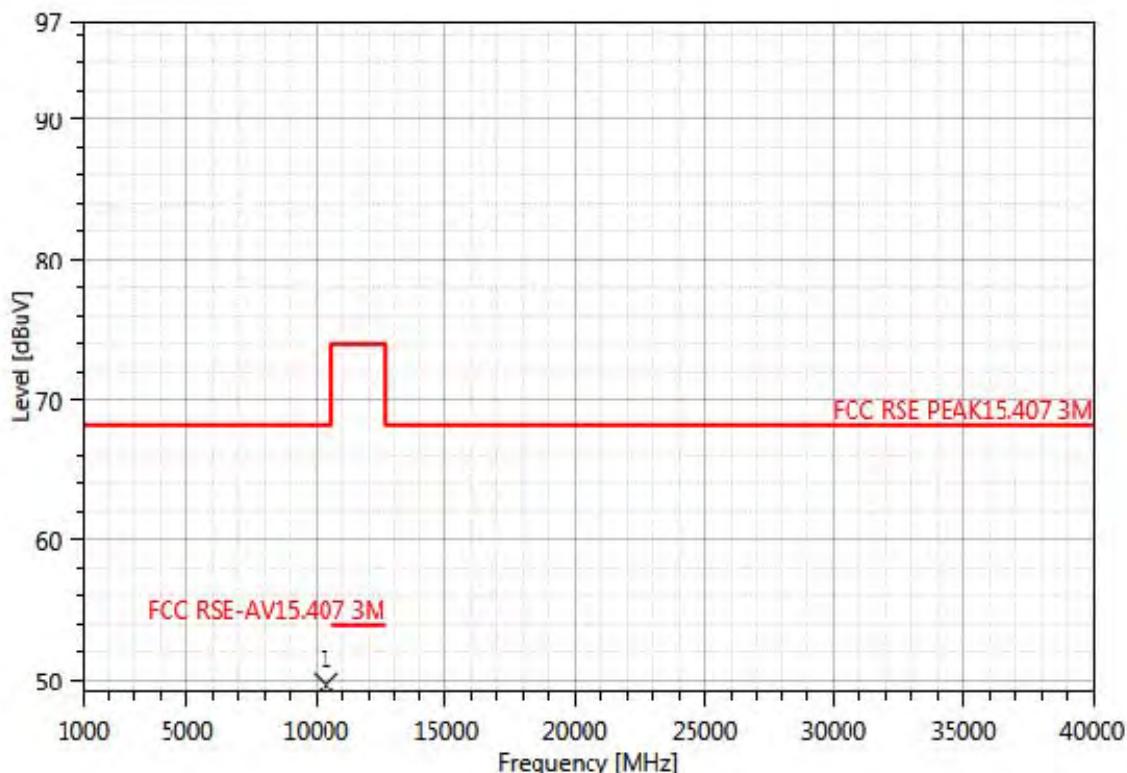
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode : 802.11n40UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5190 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



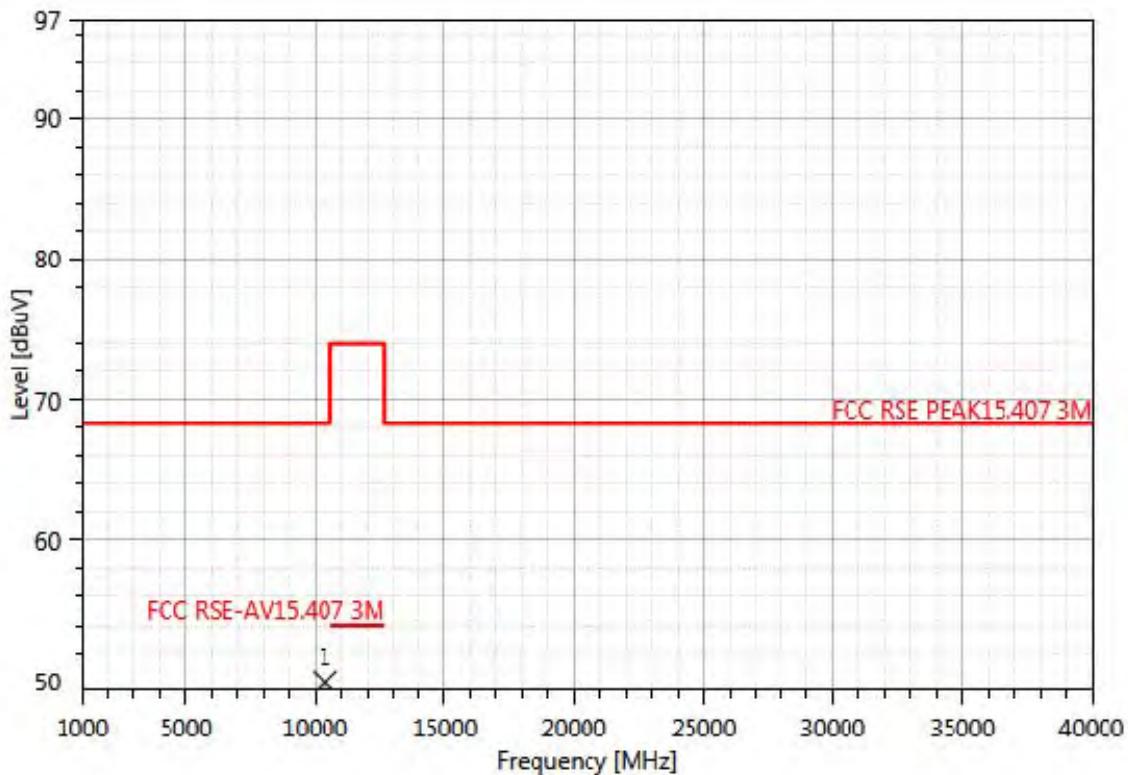
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10380.00	H	Peak	49.72	31.59	18.12	68.30	-18.58

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Operation Mode : 802.11n40UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5190 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	
		QP/AV/PK	Level	dB μ V/m		dBuV/m	dB
10380.00	H	Peak	49.92	31.79	18.12	68.30	-18.38

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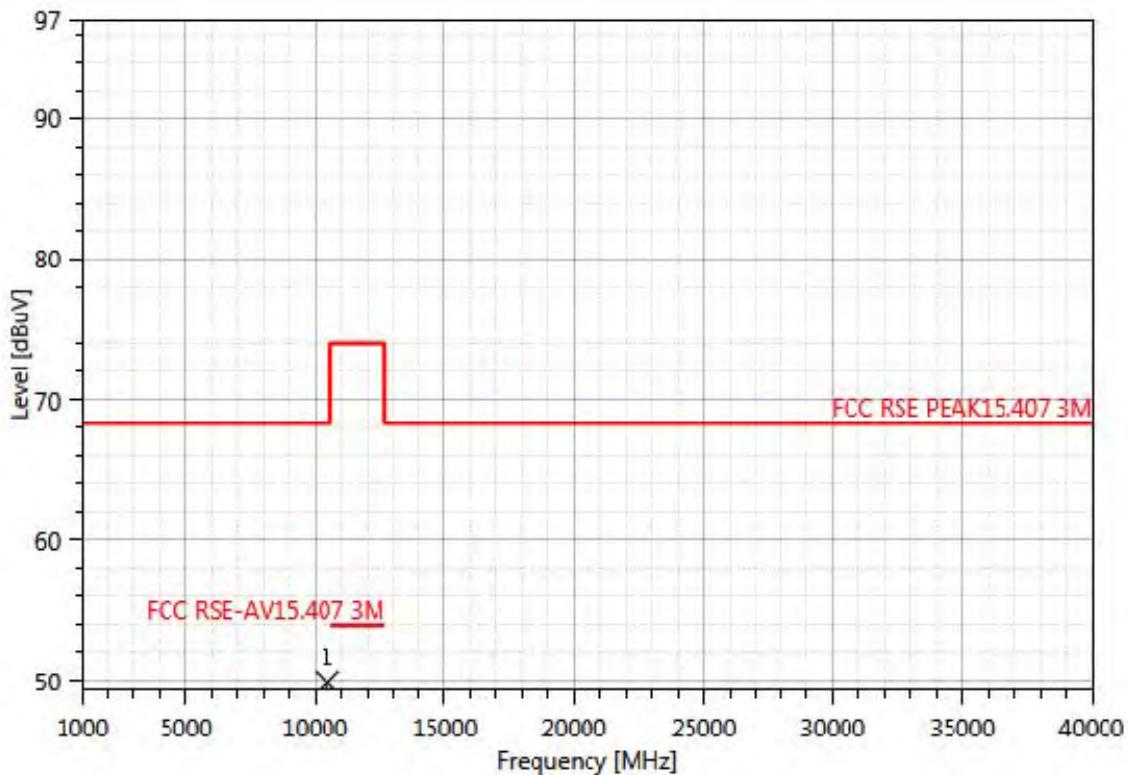
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Operation Mode : 802.11n40UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5230 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	dBuV/m
10460.00	H	Peak	49.89	31.35	18.54	68.30	-18.41

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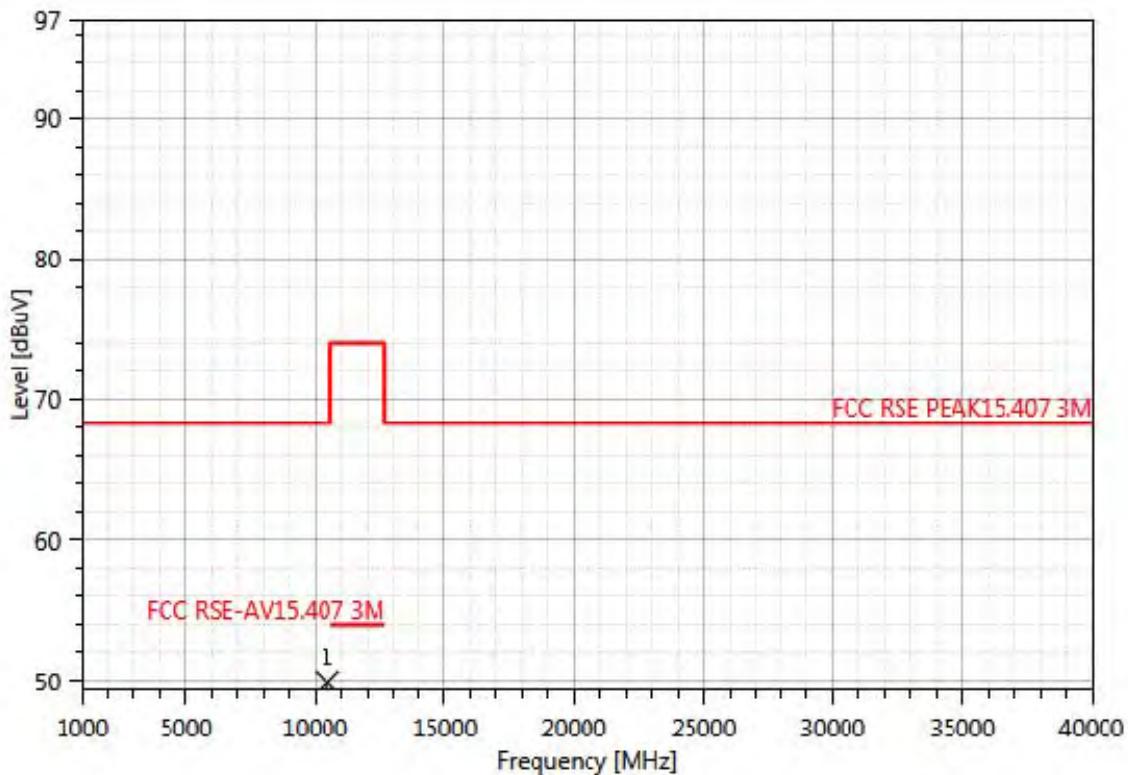
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Operation Mode : 802.11n40UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5230 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	dBuV/m
10460.00	H	Peak	49.86	31.32	18.54	68.30	-18.44

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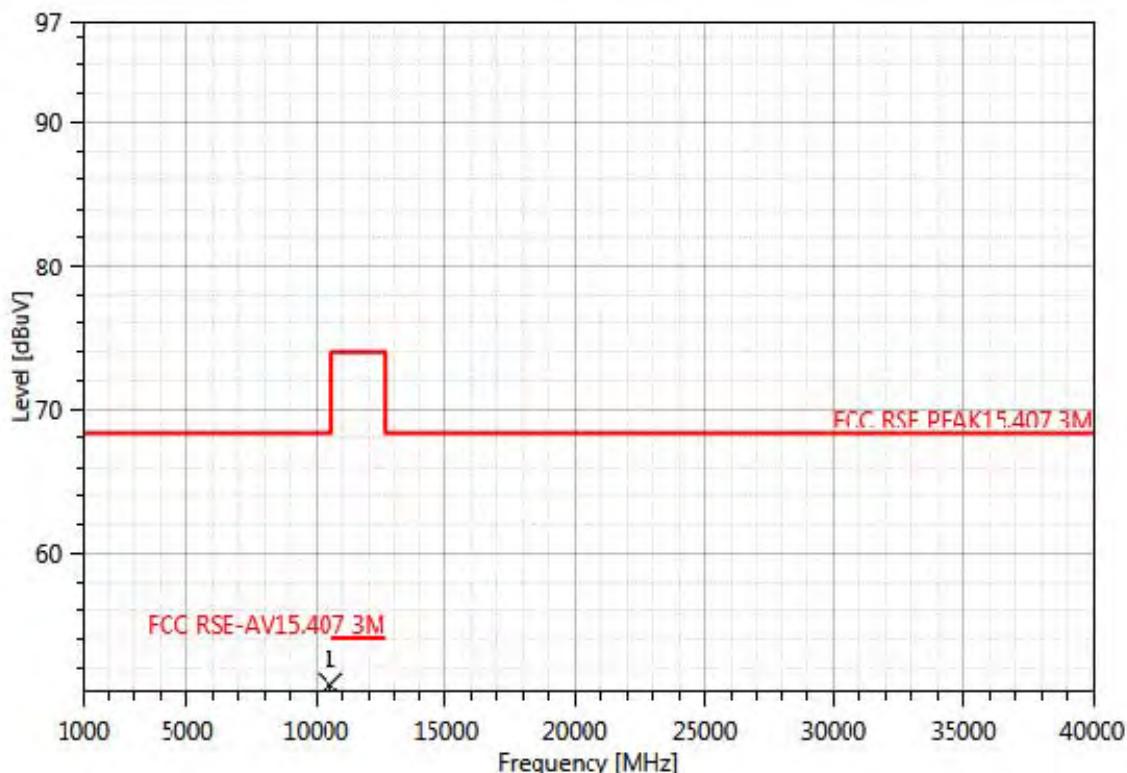
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode : 802.11n40UNII-2A Test Date : 11/02/2016
 Fundamental Frequency : 5270 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH LOW Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



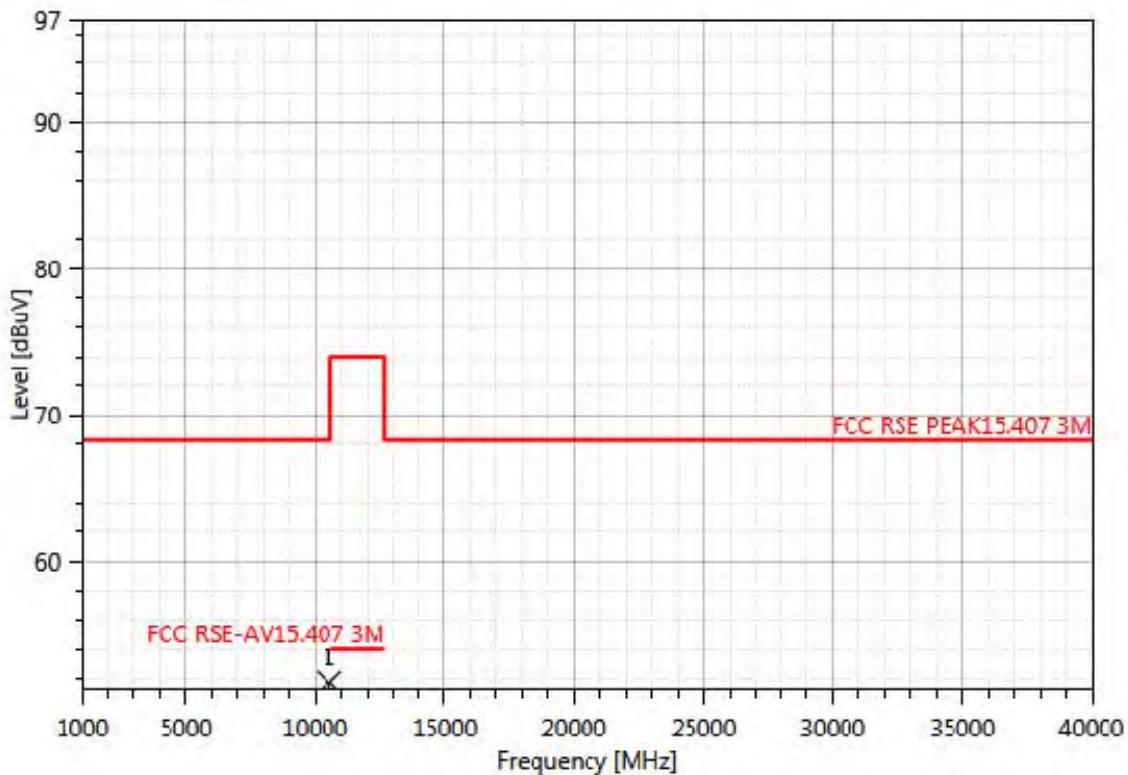
Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	
		QP/AV/PK	Level	dB μ V/m		dBuV/m	dB
10540.00	H	Peak	50.83	31.66	19.17	68.30	-17.47

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Operation Mode : 802.11n40UNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5270 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



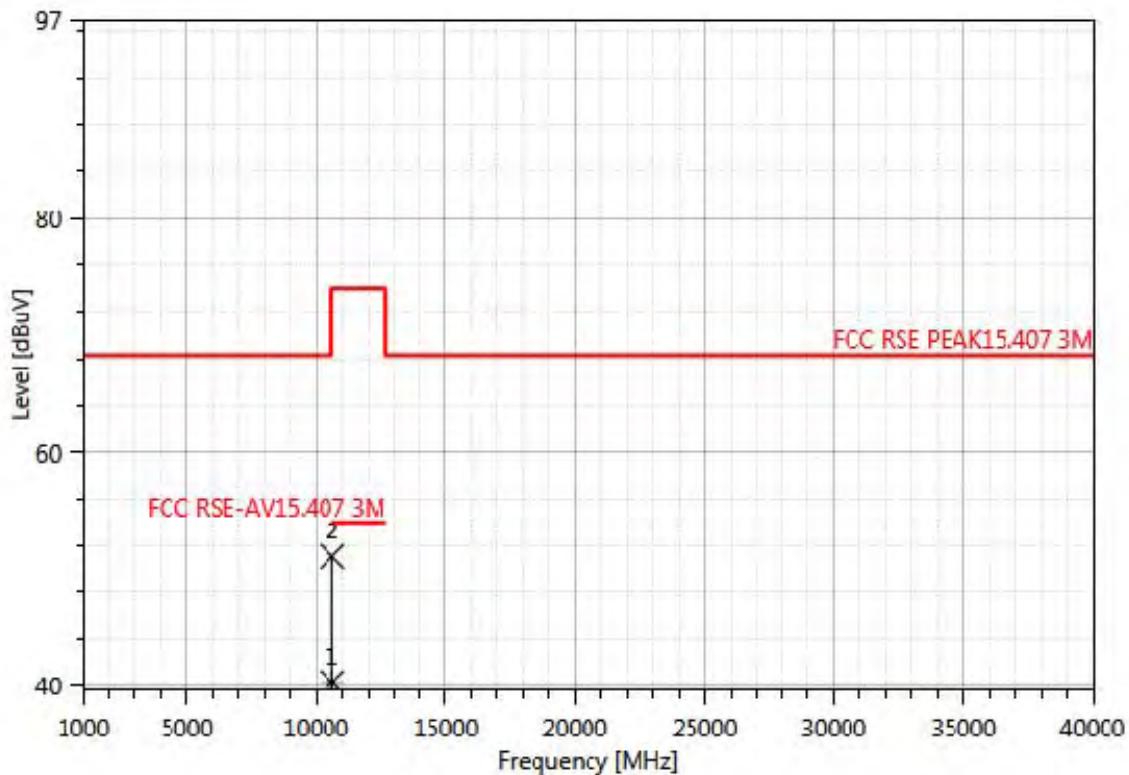
Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS		@3m	
		QP/AV/PK	Level	dB μ V/m	dB	dBuV/m	dB
10540.00	H	Peak	51.75	32.58	19.17	68.30	-16.55

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Operation Mode : 802.11n40UNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5310 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



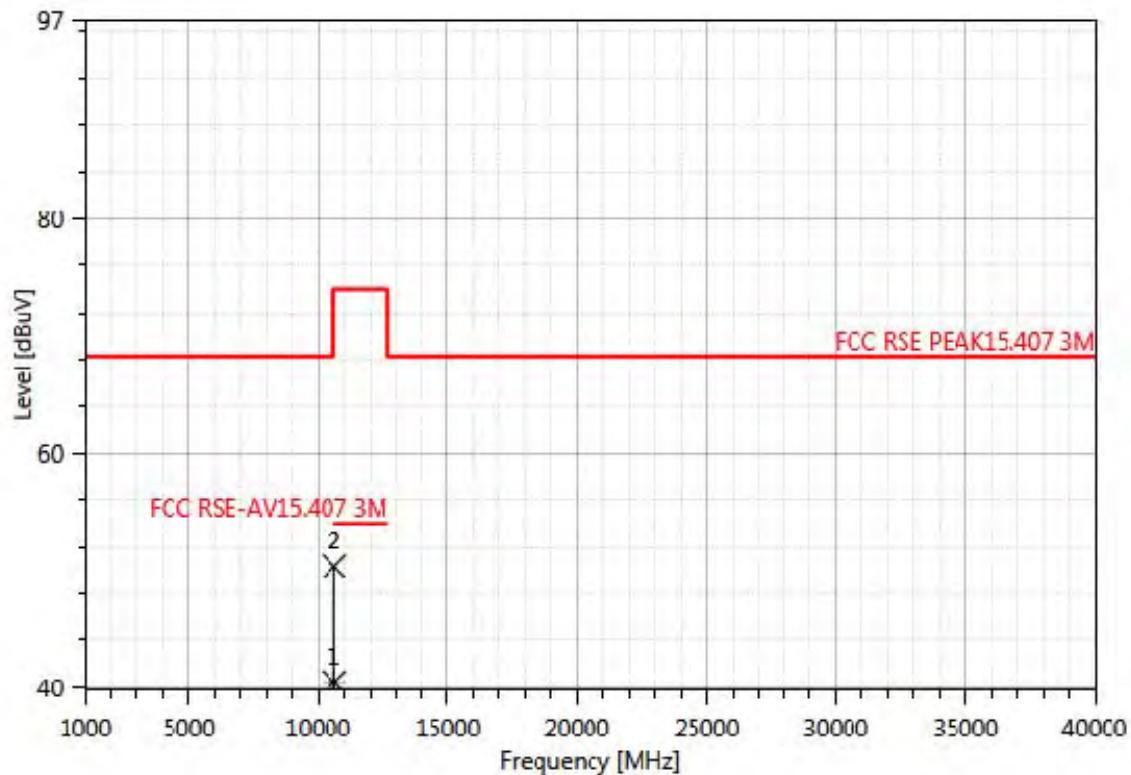
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual	Spectrum	Factor dB	Limit @3m dBuV/m	Margin dB
			Reading Level dB μ V/m	FS dB μ V/m			
10620.00	H	Average	40.30	21.19	19.11	54.00	-13.70
10620.00	H	Peak	51.10	31.99	19.11	74.00	-22.90

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Operation Mode : 802.11n40UNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5310 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
10620.00	H	Average	40.44	21.33	19.11	54.00	-13.56	
10620.00	H	Peak	50.37	31.26	19.11	74.00	-23.63	

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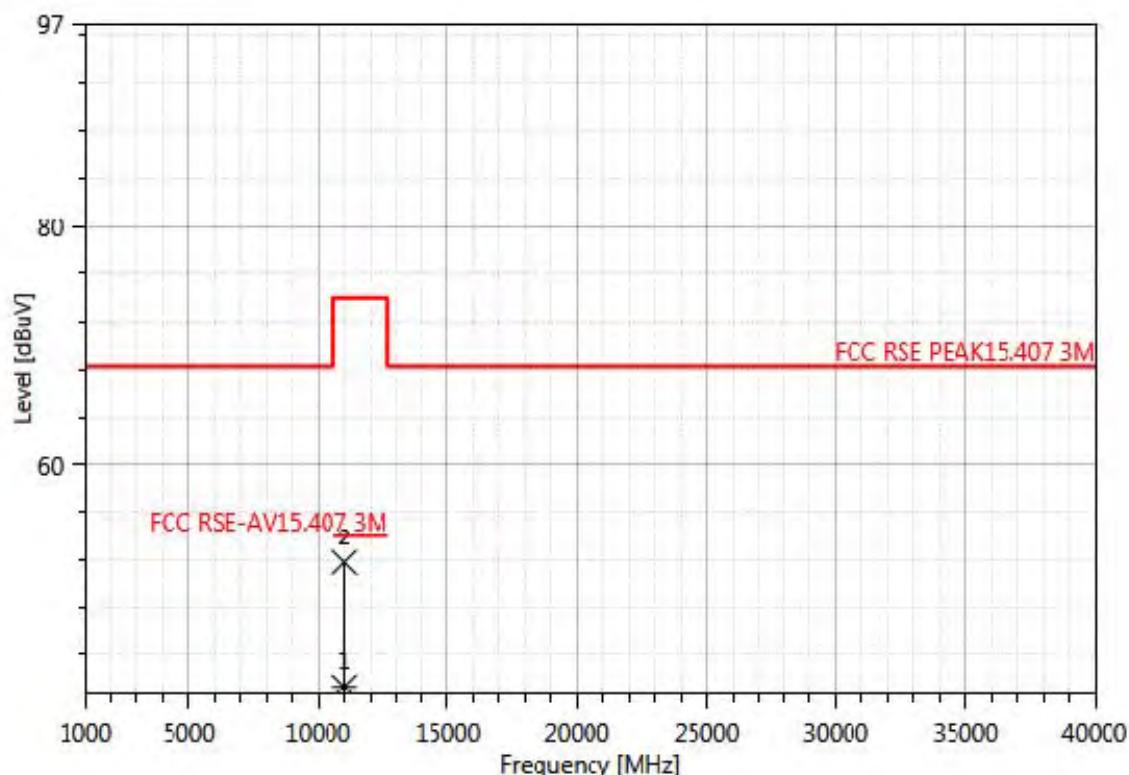
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode : 802.11n40UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5510 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



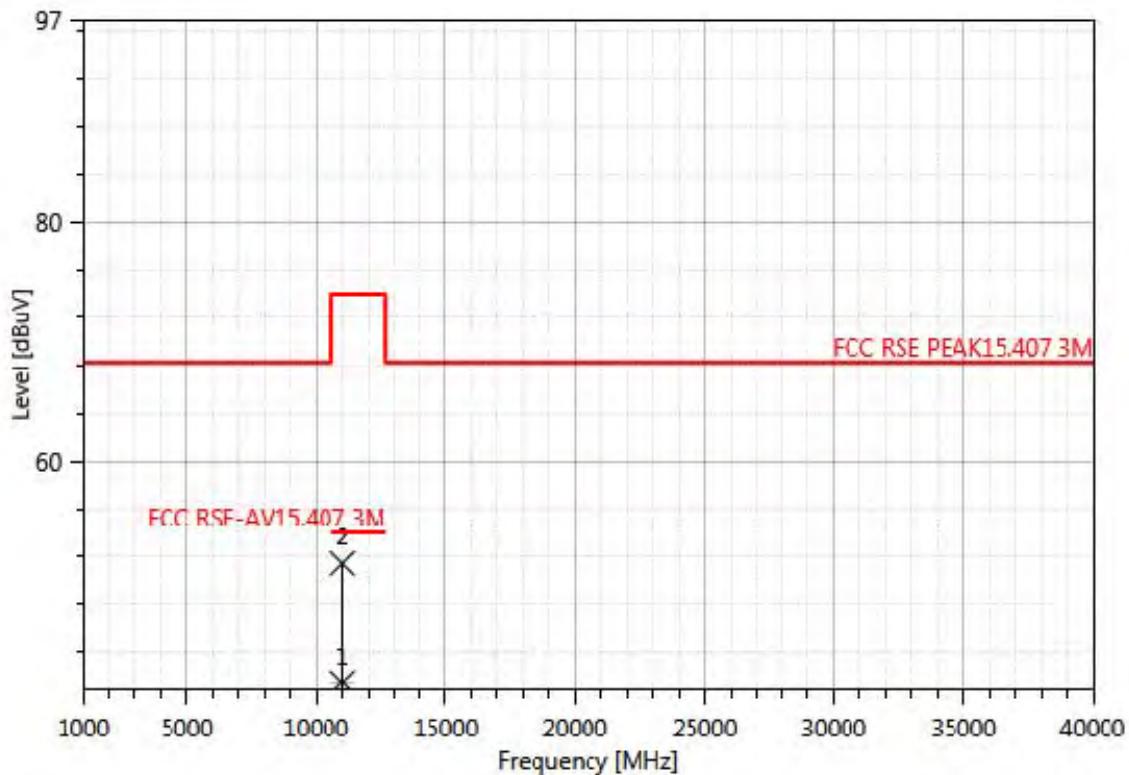
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
						Actual Reading Level dB μ V/m	Factor dB
11020.00	H	Average	41.35	21.19	20.16	54.00	-12.65
11020.00	H	Peak	51.80	31.64	20.16	74.00	-22.20

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Operation Mode : 802.11n40UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5510 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



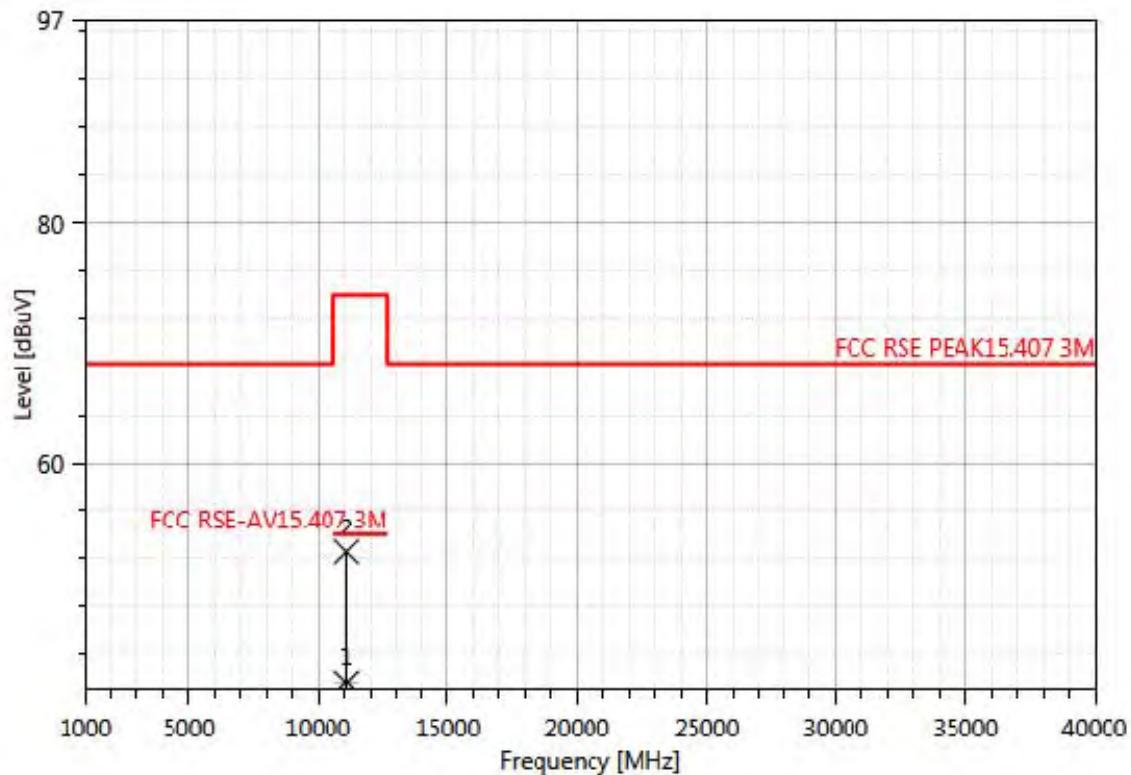
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual	Spectrum	Factor dB	Limit @3m dBuV/m	Margin dB
			Reading Level dB μ V/m	FS dB μ V/m			
11020.00	H	Average	41.45	21.29	20.16	54.00	-12.55
11020.00	H	Peak	51.47	31.31	20.16	74.00	-22.53

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Operation Mode : 802.11n40UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5550 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11100.00	H	Average	41.64	21.32	20.32	54.00	-12.36	
11100.00	H	Peak	52.56	32.24	20.32	74.00	-21.44	

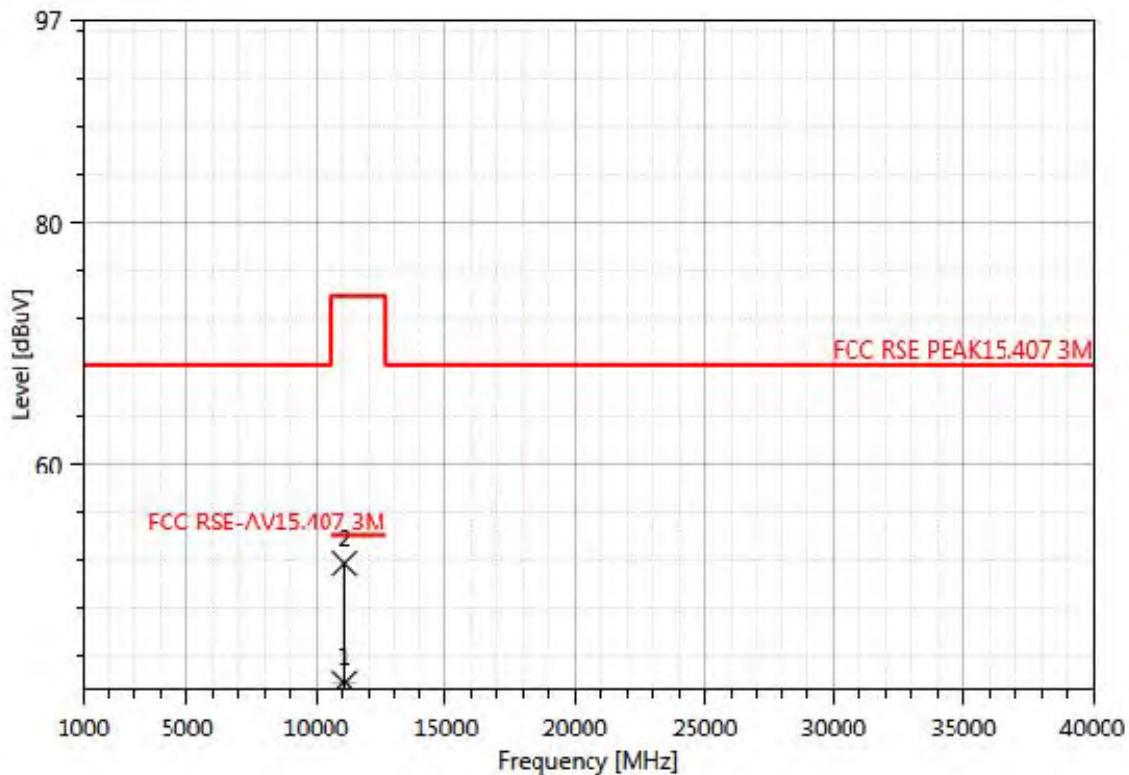
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Operation Mode : 802.11n40UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5550 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



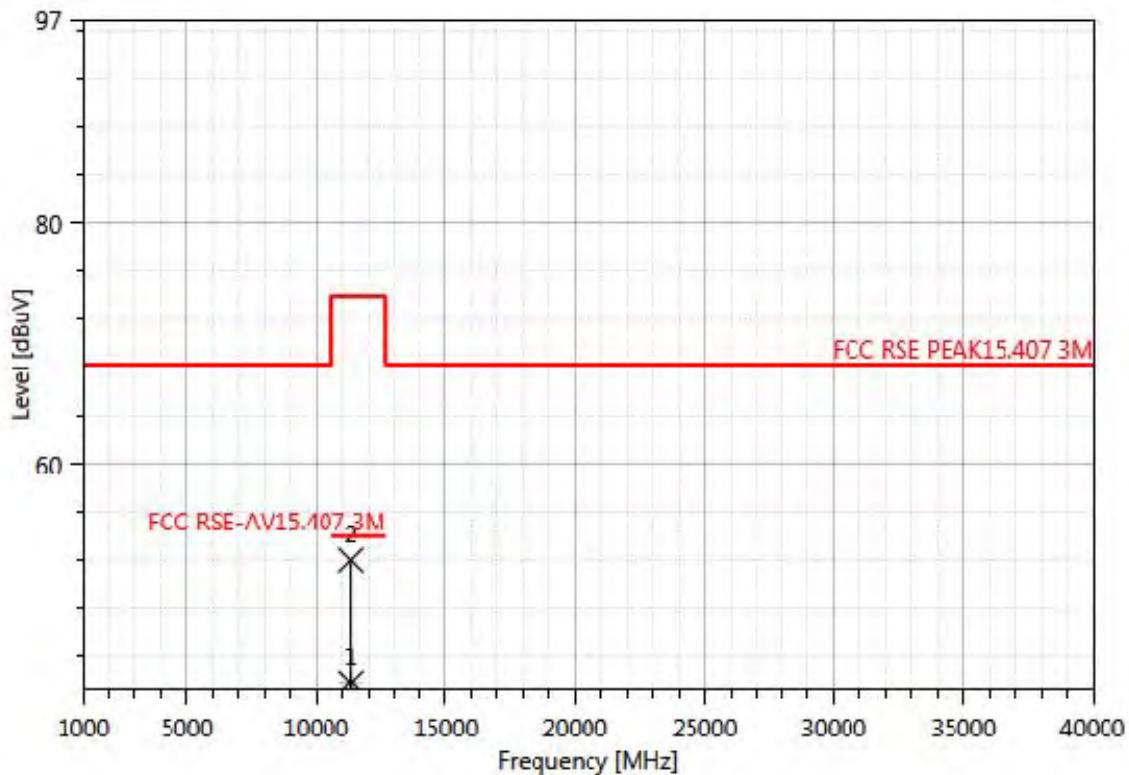
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11100.00	H	Average	41.78	21.46	20.32	54.00	-12.22	
11100.00	H	Peak	51.73	31.41	20.32	74.00	-22.27	

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Operation Mode : 802.11n40UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5670 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11340.00	H	Average	41.81	21.43	20.38	54.00	-12.19	
11340.00	H	Peak	52.02	31.64	20.38	74.00	-21.98	

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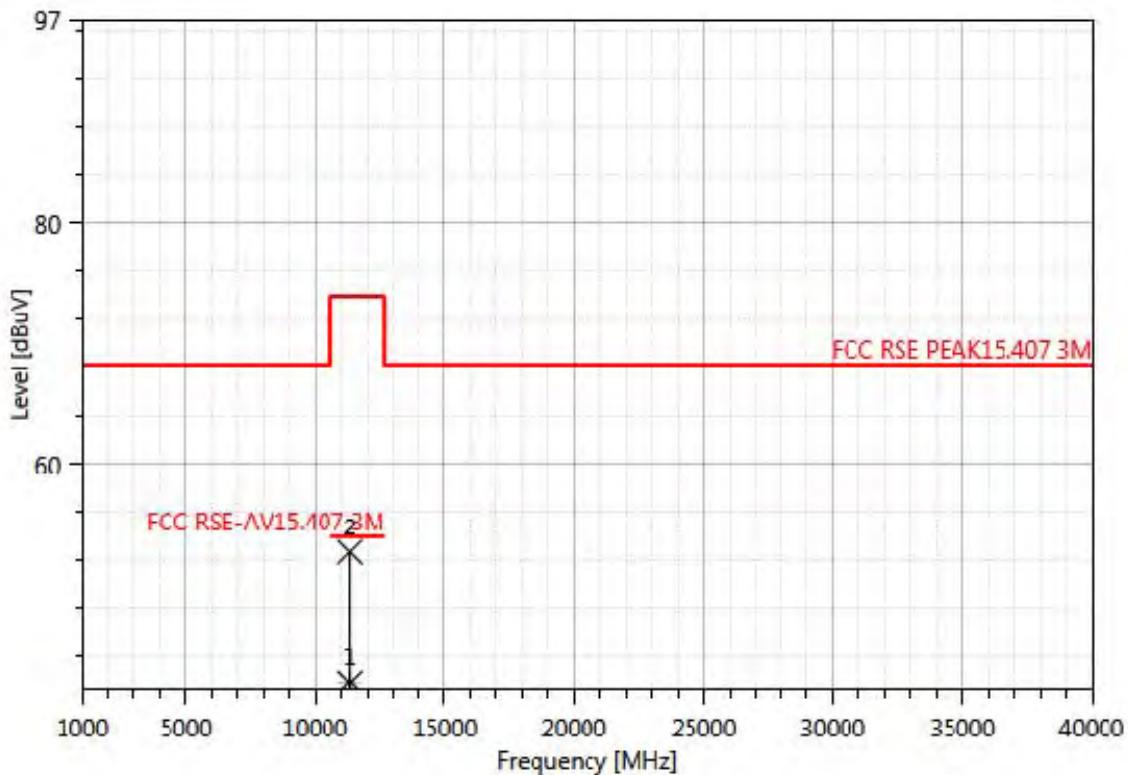
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Operation Mode : 802.11n40UNII-2C Test Date : 11/02/2016
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11340.00	H	Average	41.85	21.47	20.38	54.00	-12.15	
11340.00	H	Peak	52.72	32.34	20.38	74.00	-21.28	

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

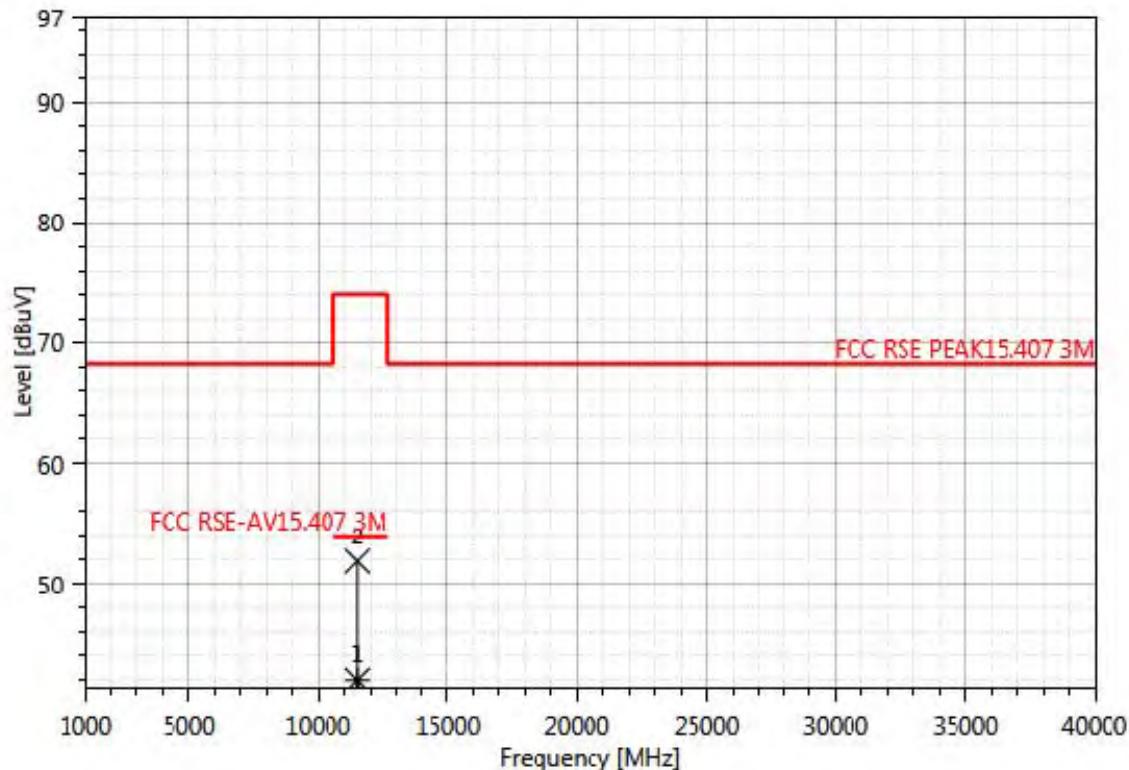
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode : 802.11n40UNII-3 Test Date : 11/02/2016
Fundamental Frequency : 5755 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



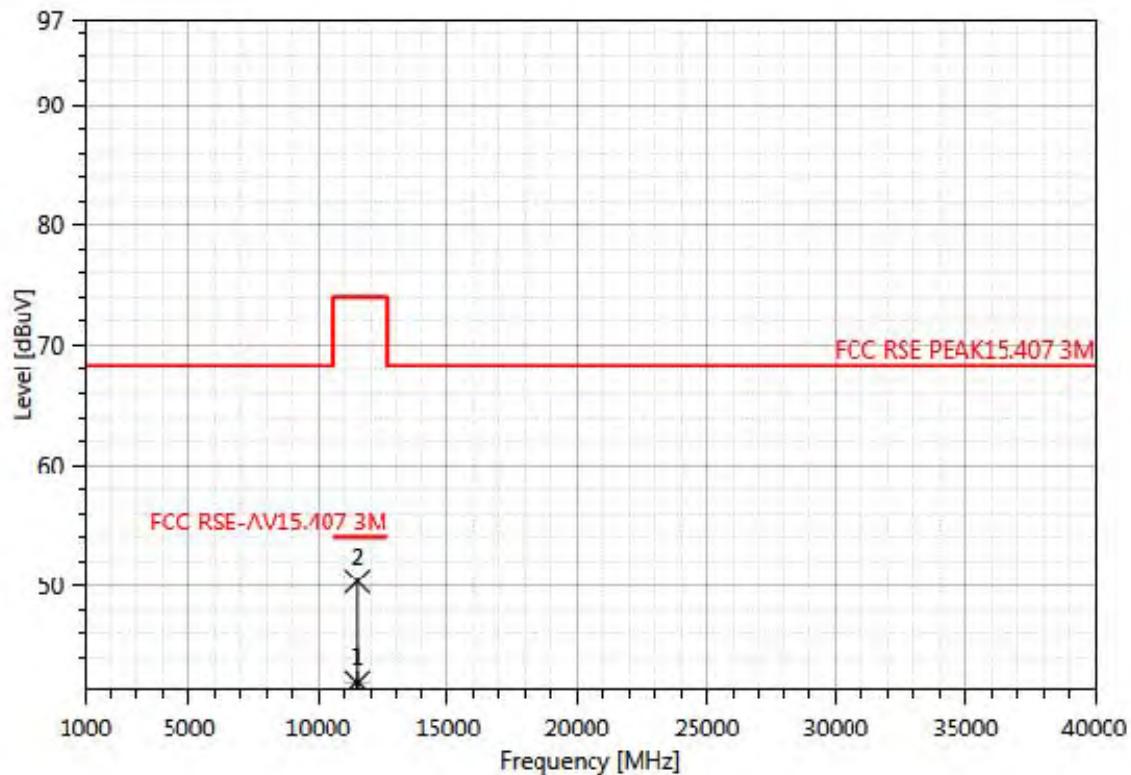
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dB μ V/m	Margin dB
						Actual Reading Level dB μ V/m	Factor dB
11510.00	H	Average	42.04	21.65	20.39	54.00	-11.96
11510.00	H	Peak	51.90	31.51	20.39	74.00	-22.10

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Operation Mode : 802.11n40UNII-3 Test Date : 11/02/2016
Fundamental Frequency : 5755 MHz Temp. / Humi. : 22 deg_C / 63 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



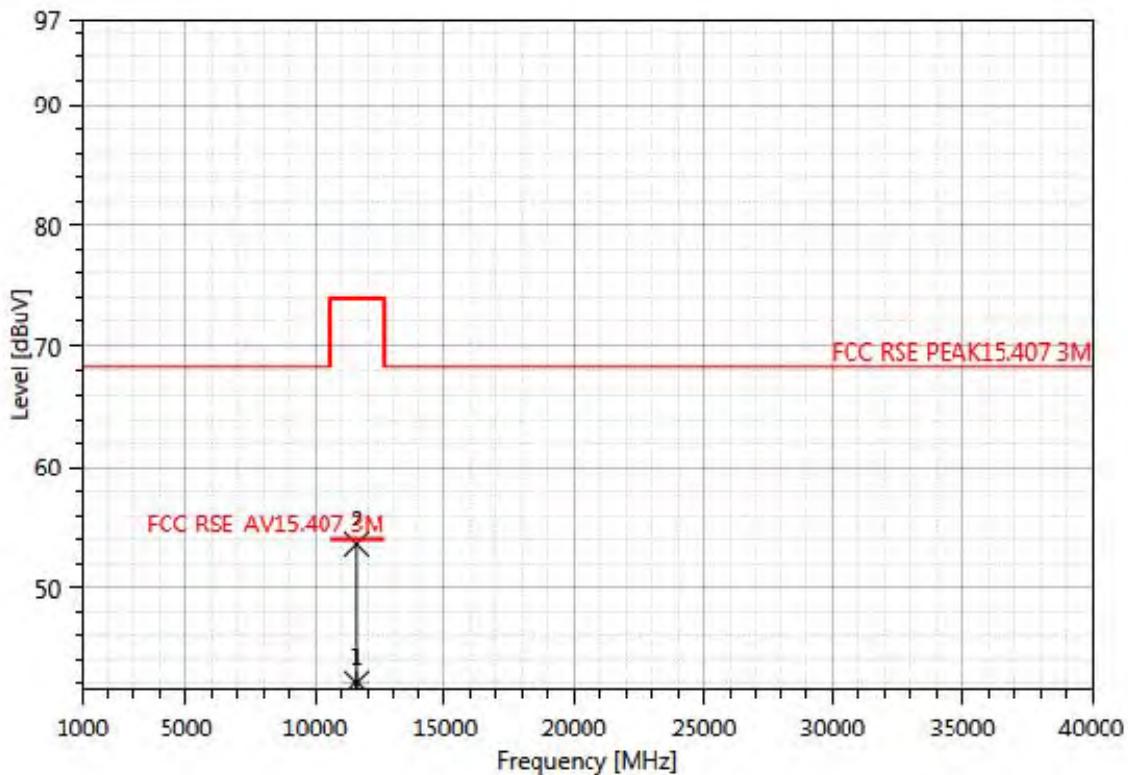
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11510.00	H	Average	41.98	21.59	20.39	54.00	54.00	-12.02
11510.00	H	Peak	50.36	29.98	20.39	74.00	74.00	-23.64

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Operation Mode : 802.11n40UNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11590.00	H	Average	42.20	21.77	20.43	54.00	-11.80	
11590.00	H	Peak	53.61	33.18	20.43	74.00	-20.39	

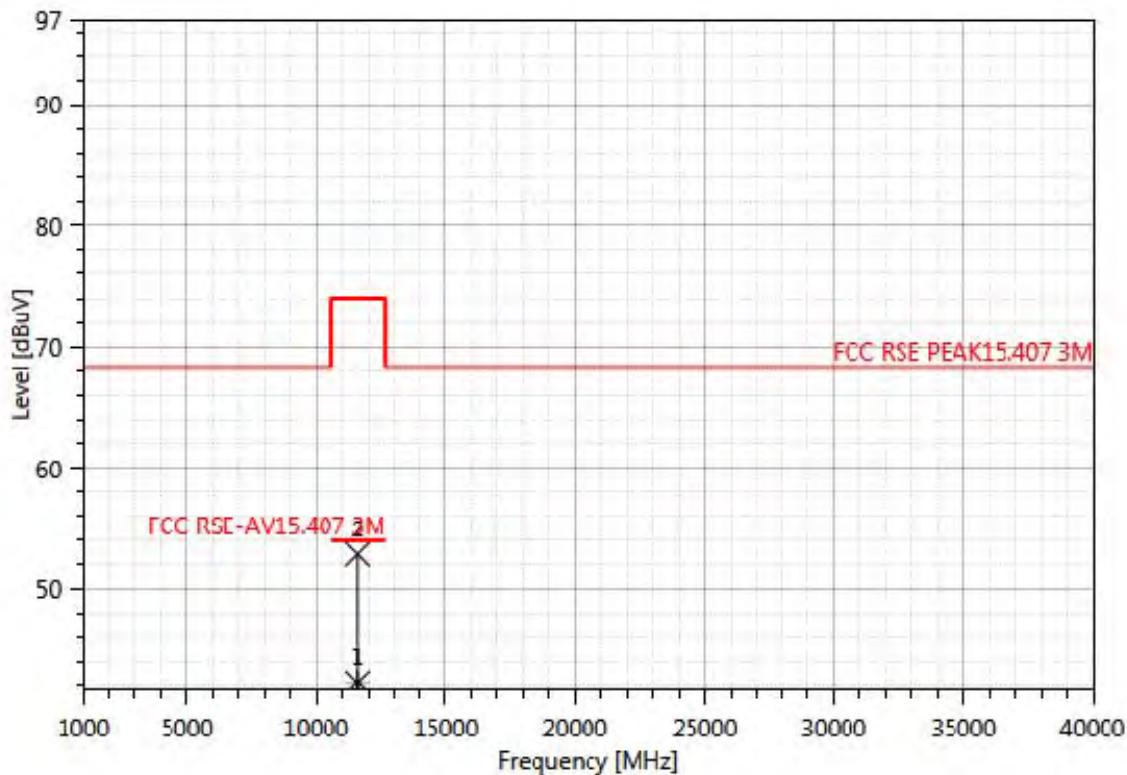
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Operation Mode : 802.11n40UNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22 deg_C / 63 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum		Factor dB	Limit @3m dBuV/m	Margin dB
				FS dB μ V/m	Factor dB			
11590.00	H	Average	42.28	21.85	20.43	54.00	-11.72	
11590.00	H	Peak	52.90	32.46	20.43	74.00	-21.10	

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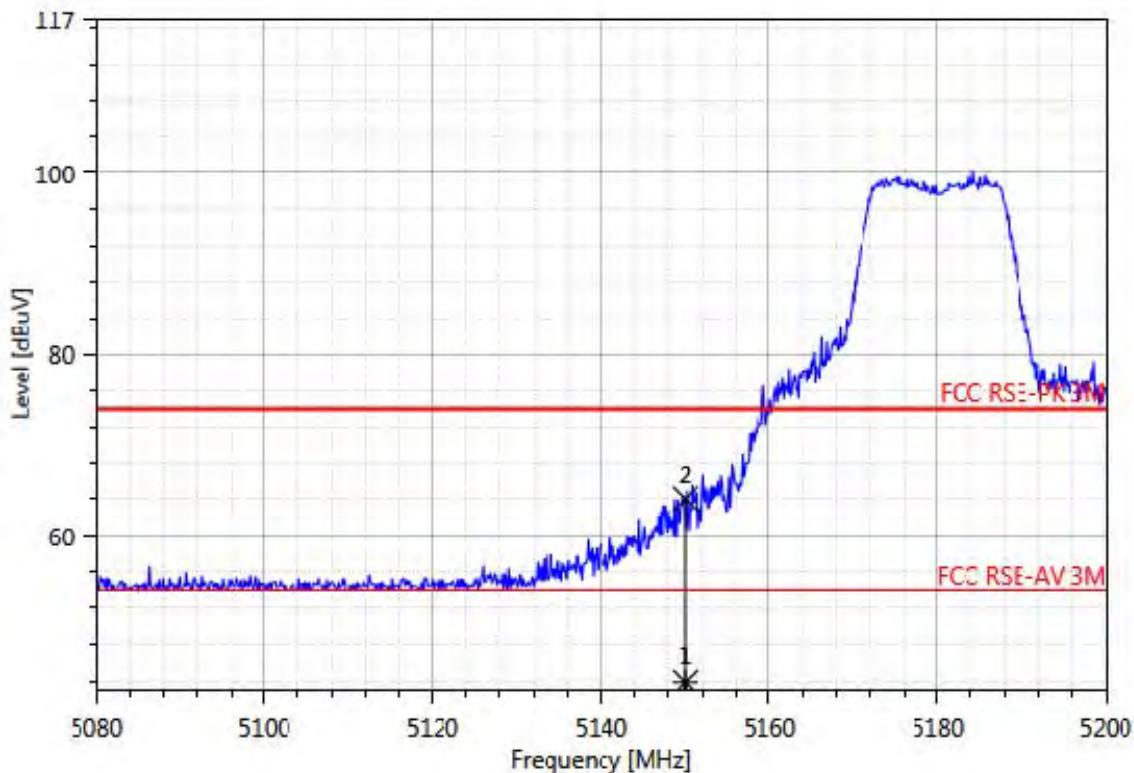
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Band edge falling to restricted band

802.11a mode

Operation Mode : 802.11aUNII-1 Test Date : 11/02/2016
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	dB
		QP/AV/PK	Level	dB μ V/m		dBuV/m	
5150.00	E	Average	43.88	38.00	5.88	54.00	-10.12
5150.00	E	Peak	64.01	58.13	5.88	74.00	-9.99

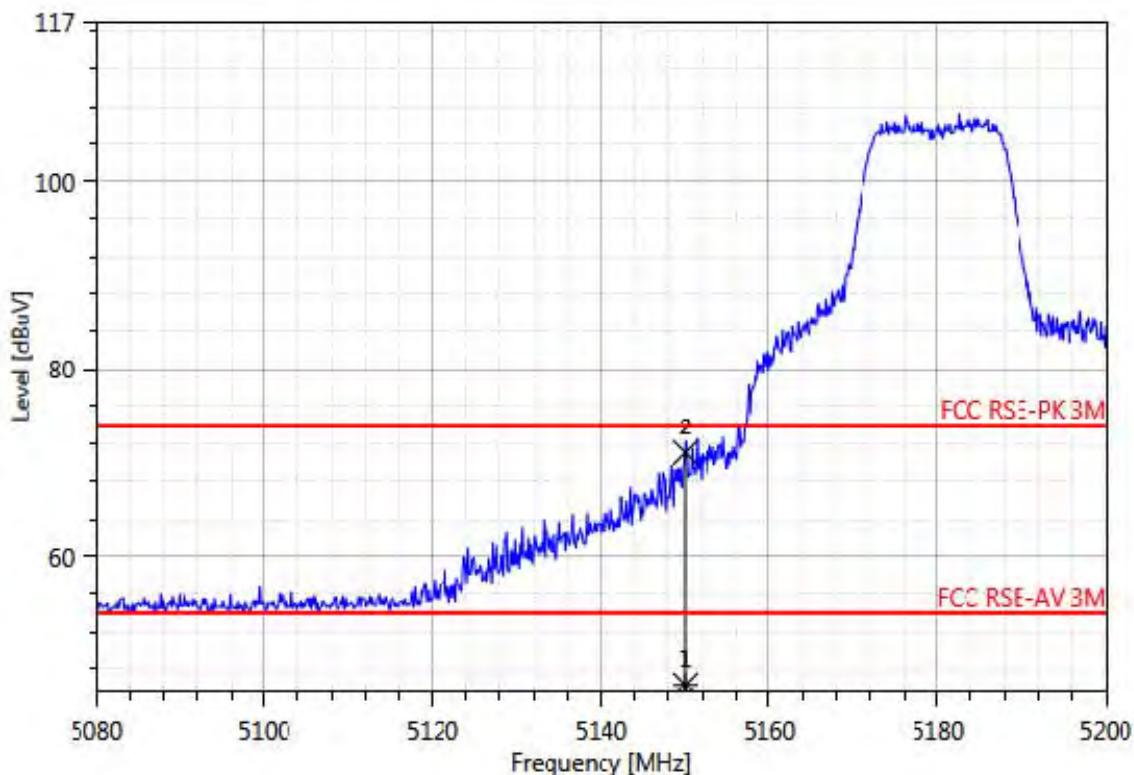
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Operation Mode : 802.11aUNII-1 Test Date : 11/02/2016
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



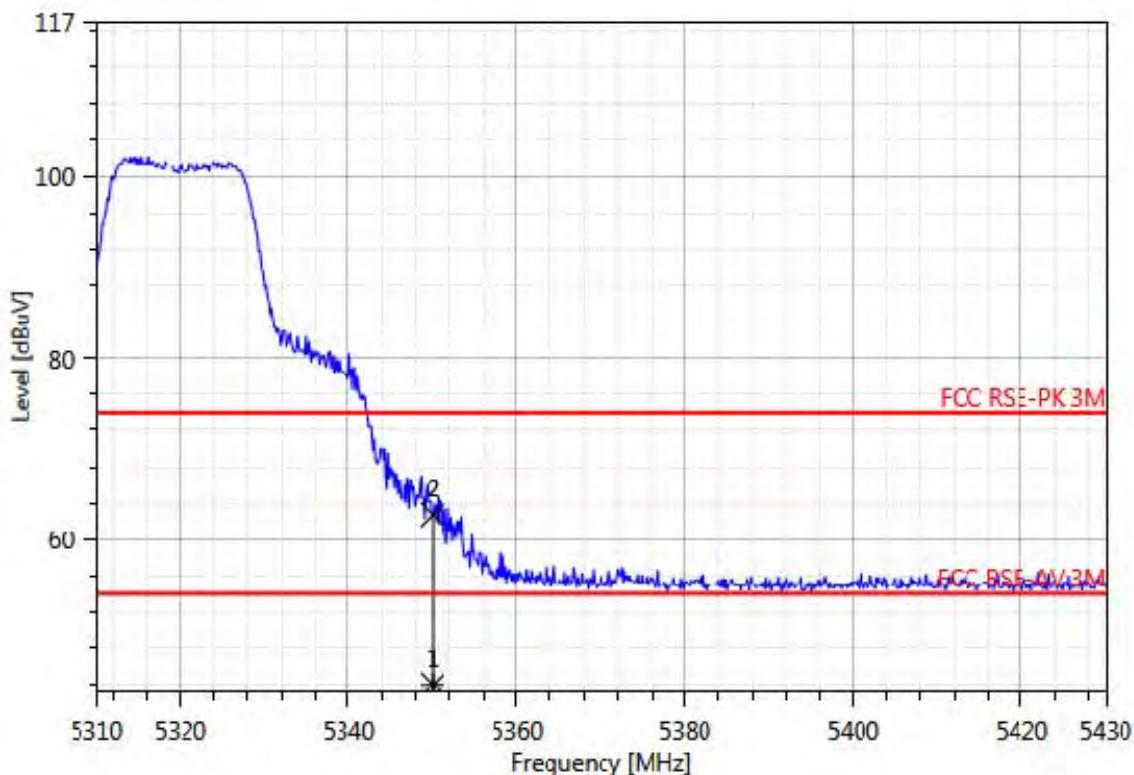
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5150.00	E	Average	46.35	40.47	5.88	54.00	-7.65
5150.00	E	Peak	71.10	65.22	5.88	74.00	-2.90

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Operation Mode : 802.11aUNII-2A Test Date : 11/02/2016
Fundamental Frequency : 5320 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



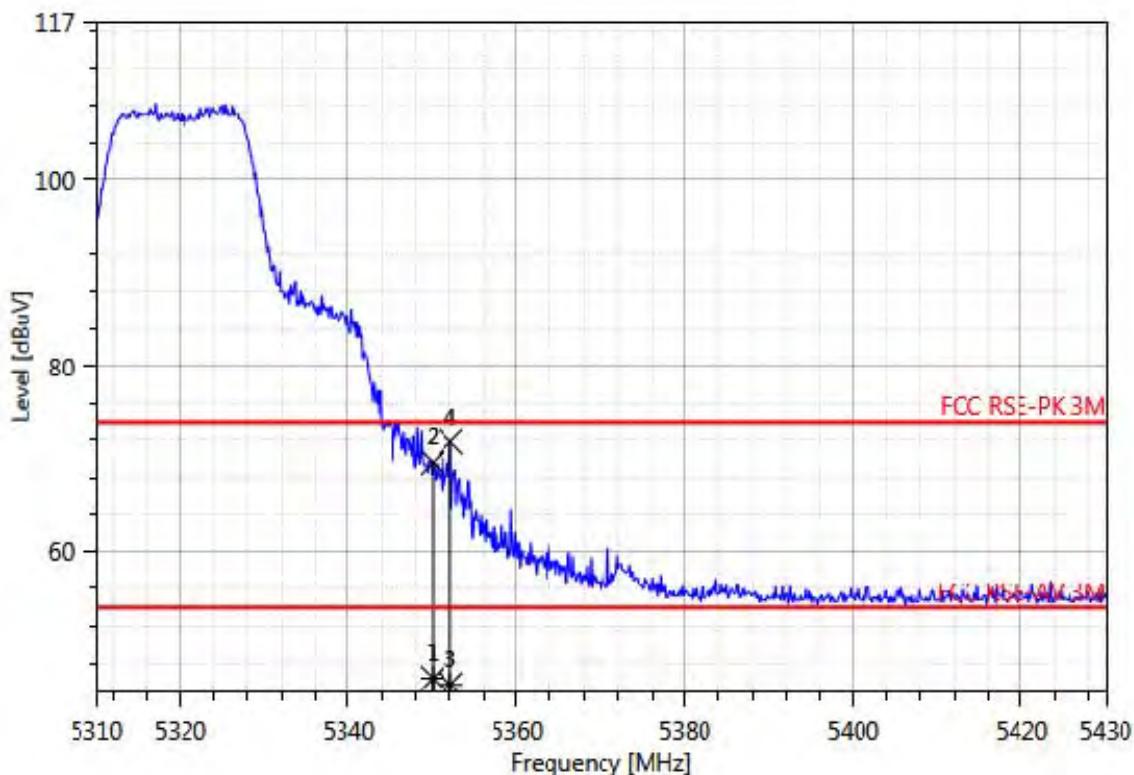
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5350.00	E	Average	44.01	37.86	6.15	54.00	-9.99
5350.00	E	Peak	62.74	56.59	6.15	74.00	-11.26

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Operation Mode : 802.11aUNII-2A Test Date : 11/02/2016
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



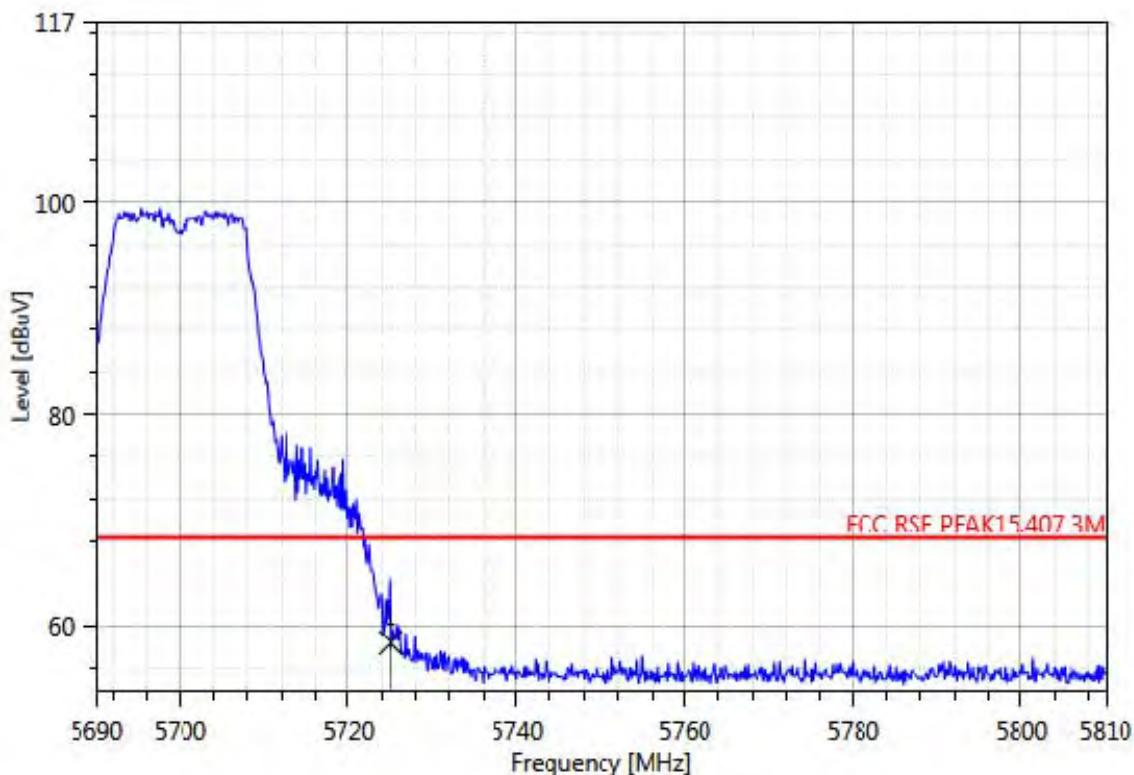
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
						Decetor Mode QP/AV/PK	
5350.00	E	Average	46.41	40.26	6.15	54.00	-7.59
5350.00	E	Peak	69.62	63.47	6.15	74.00	-4.38
5352.12	S	Average	45.72	39.58	6.14	54.00	-8.28
5352.12	S	Peak	71.80	65.67	6.14	74.00	-2.20

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Operation Mode : 802.11aUNII-2C Test Date : 11/02/2016
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



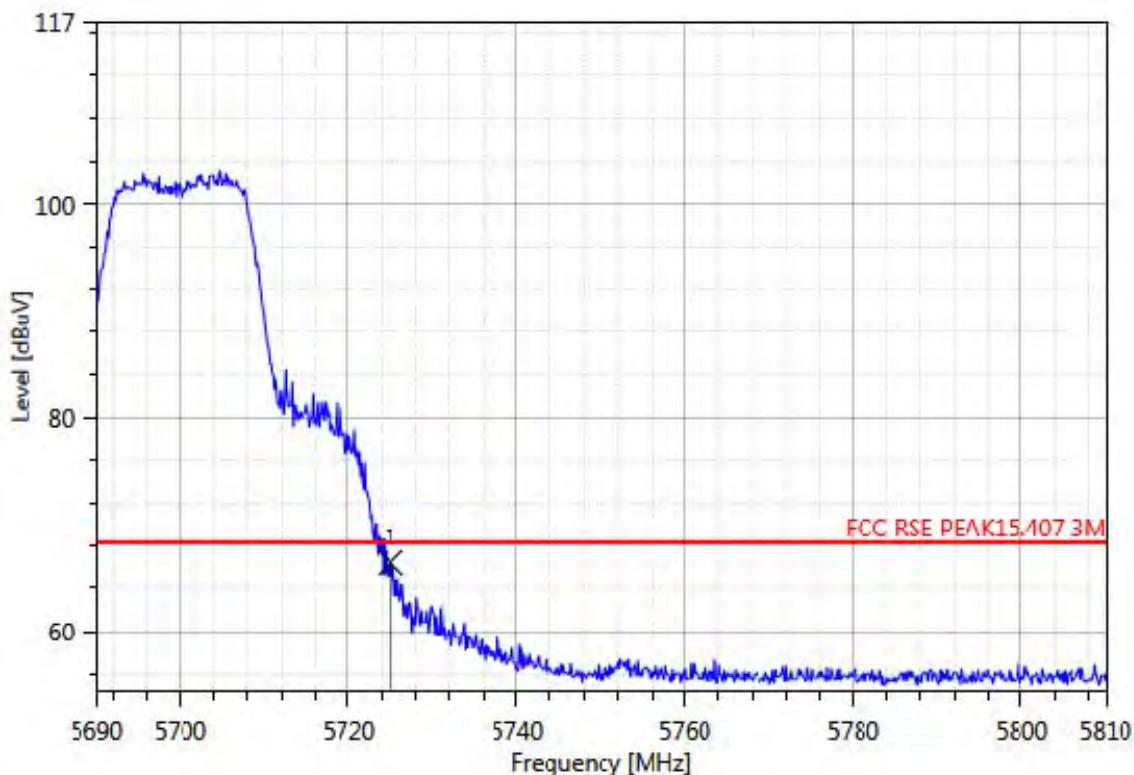
Freq. MHz	Note F/H/E/S	Decetor Mode	Actual	Spectrum	Factor dB	Limit @3m dBuV/m	Margin dB
			Reading	FS dB μ V/m			
5460.00	E	Average	40.35	34.12	6.23	54.00	-13.65
5460.00	E	Peak	55.18	48.94	6.23	74.00	-18.82

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Operation Mode : 802.11aUNII-2C Test Date : 11/02/2016
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



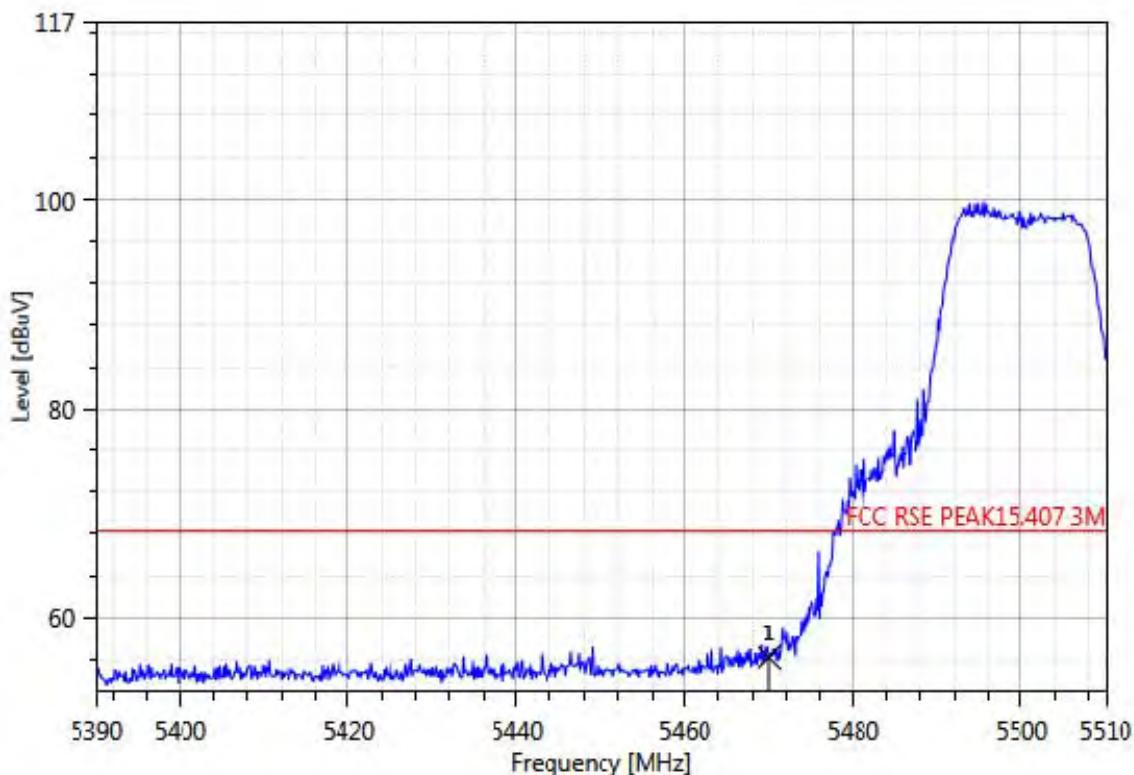
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dB μ V/m	Margin dB
						Limit @3m dB μ V/m	Margin dB
5460.00	E	Average	43.15	36.92	6.23	54.00	-10.85
5460.00	E	Peak	56.97	50.74	6.23	74.00	-17.03

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Operation Mode : 802.11aUNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH LOW | Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



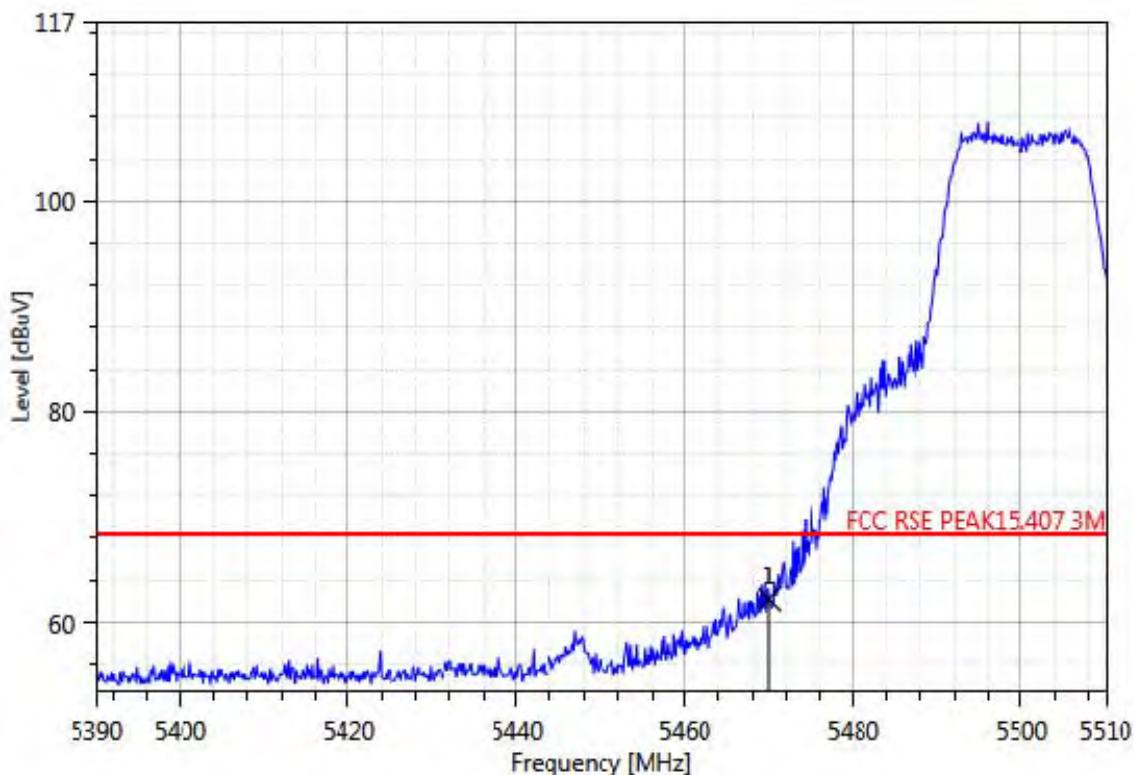
Freq. MHz	Note F/H/E/S	Decetor Mode	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5470.00	E	Peak	56.21	49.95	6.26	68.30	-12.09

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Operation Mode : 802.11aUNII-2C Test Date : 11/02/2016
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW | Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



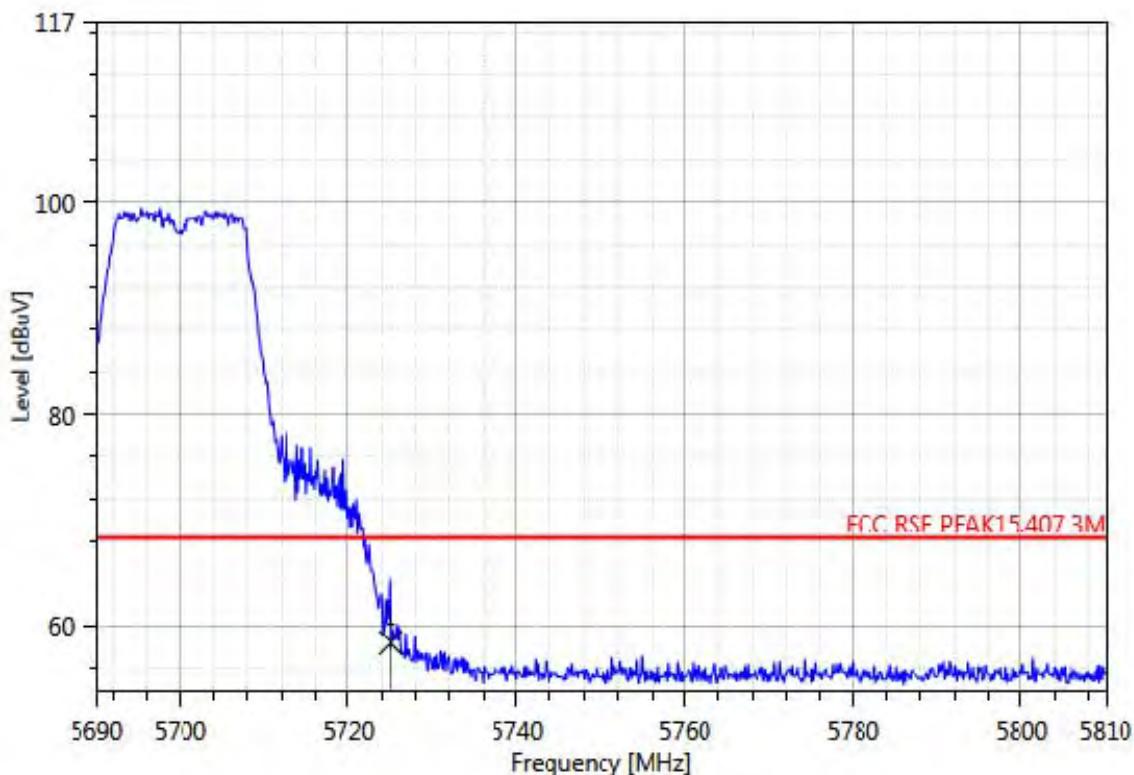
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5470.00	E	Peak	62.16	55.90	6.26	68.30	-6.14

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Operation Mode : 802.11aUNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5700 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



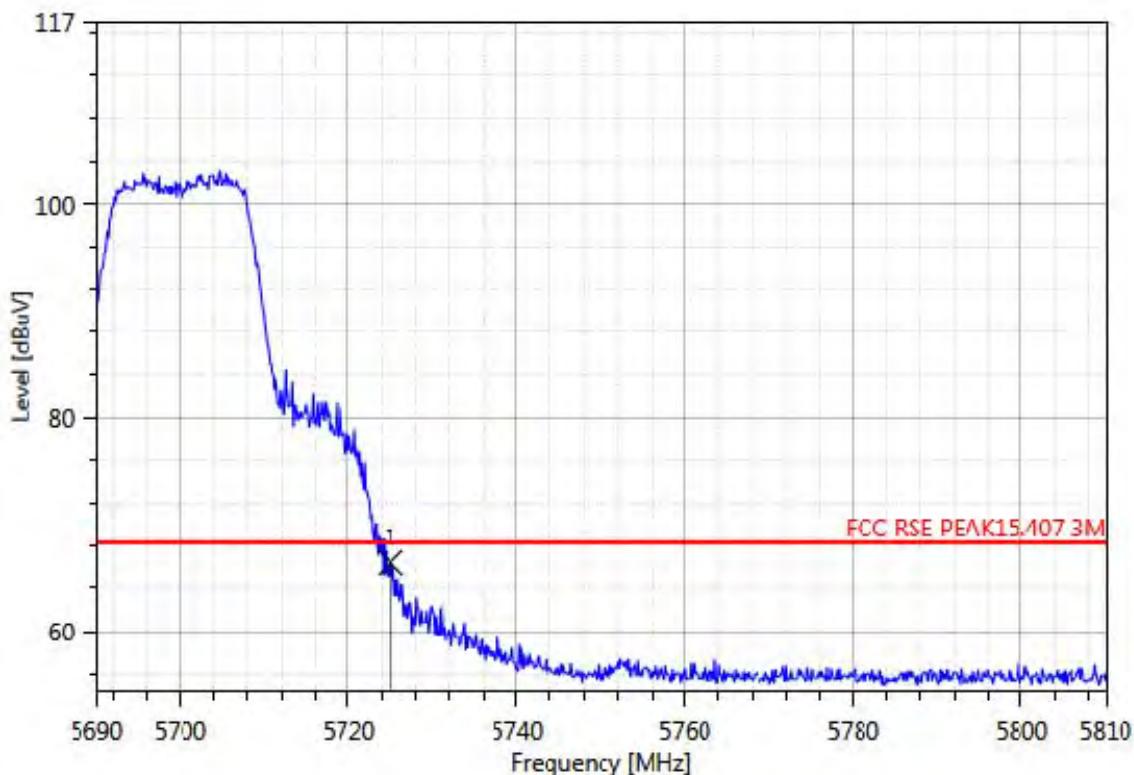
Freq. MHz	Note F/H/E/S	Decetor Mode	Actual Reading	Spectrum FS	Factor	Limit @3m	Margin
		QP/AV/PK	Level dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5725.00	E	Peak	58.43	51.84	6.59	68.30	-9.87

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Operation Mode : 802.11aUNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5700 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



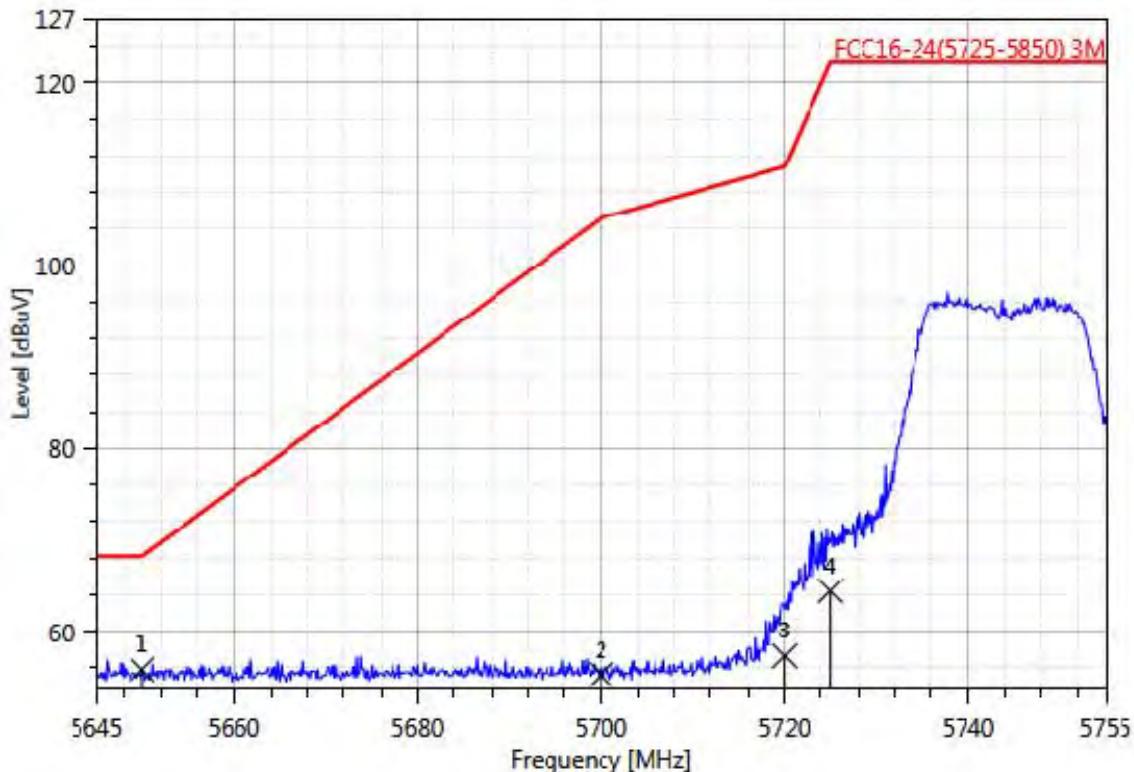
Freq. MHz	Note F/H/E/S	Decetor Mode	Actual Reading	Spectrum FS	Factor	Limit @3m	Margin
		QP/AV/PK	Level dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5725.00	E	Peak	66.44	59.85	6.59	68.30	-1.86

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Operation Mode : 802.11aUNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



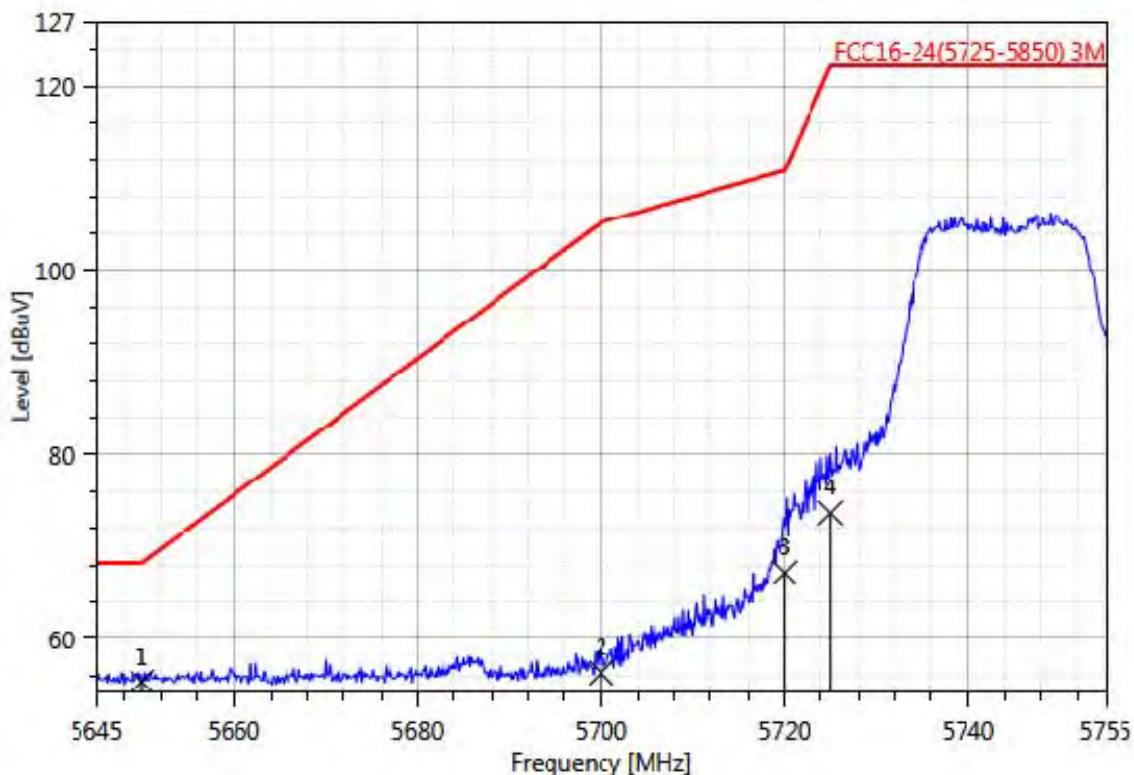
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
						Decetor Mode QP/AV/PK	
5650.00	E	Peak	55.86	49.38	6.48	68.23	-12.37
5700.00	E	Peak	55.29	48.61	6.68	105.23	-49.94
5720.00	E	Peak	57.33	50.73	6.60	110.83	-53.50
5725.00	E	Peak	64.44	57.85	6.59	122.23	-57.79

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Operation Mode : 802.11aUNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



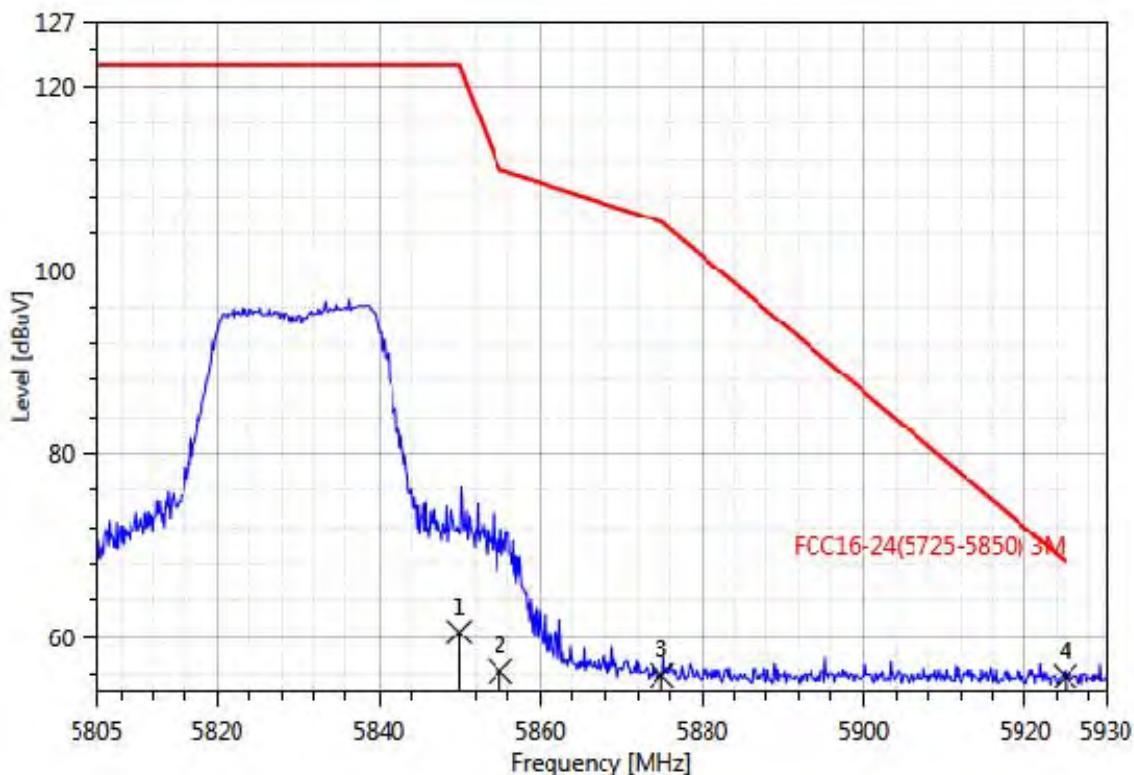
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
						Actual Reading Level dB μ V/m	
5650.00	E	Peak	55.34	48.85	6.48	68.23	-12.89
5700.00	E	Peak	56.31	49.64	6.68	105.23	-48.92
5720.00	E	Peak	67.16	60.56	6.60	110.83	-43.67
5725.00	E	Peak	73.68	67.09	6.59	122.23	-48.55

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Operation Mode : 802.11aUNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



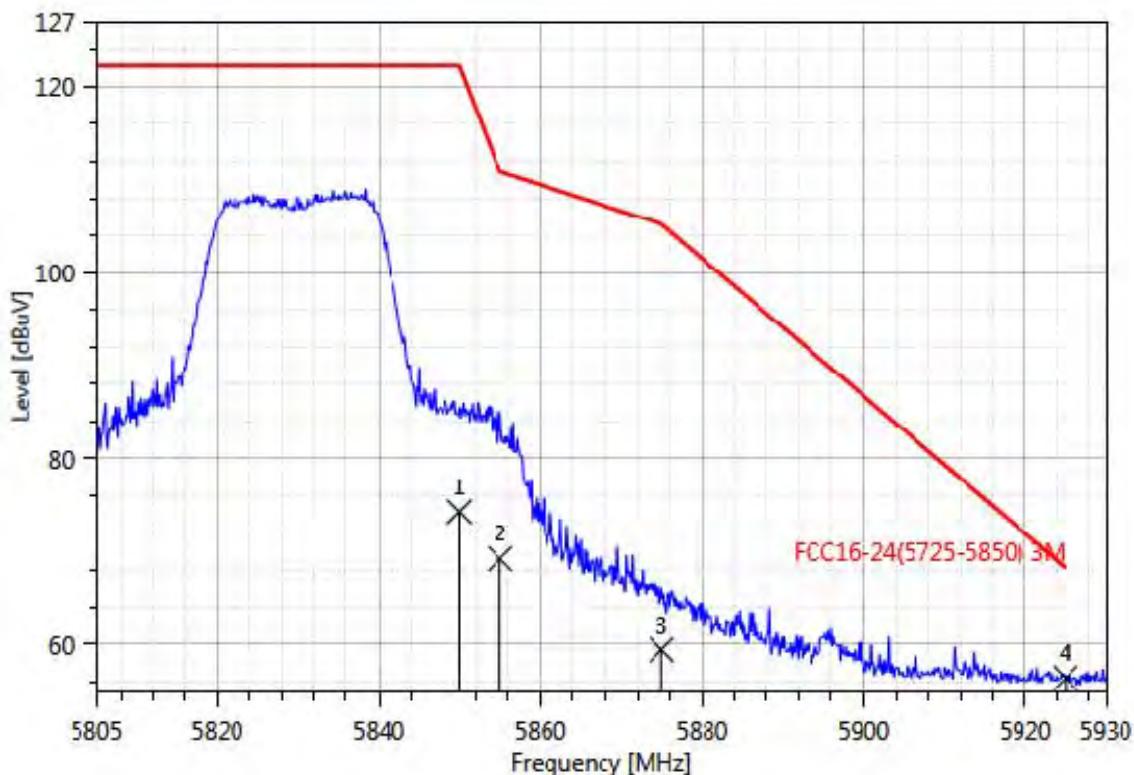
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
						Actual Reading Level dB μ V/m	
5850.00	E	Peak	60.56	53.27	7.28	122.23	-61.67
5855.00	E	Peak	56.32	49.00	7.32	110.83	-54.51
5875.00	E	Peak	55.88	48.51	7.37	105.23	-49.35
5925.00	E	Peak	55.74	48.35	7.39	68.23	-12.49

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Operation Mode : 802.11aUNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
						Actual Reading Level dB μ V/m	
5850.00	E	Peak	74.27	66.98	7.28	122.23	-47.96
5855.00	E	Peak	69.23	61.91	7.32	110.83	-41.60
5875.00	E	Peak	59.37	52.00	7.37	105.23	-45.86
5925.00	E	Peak	56.37	48.98	7.39	68.23	-11.86

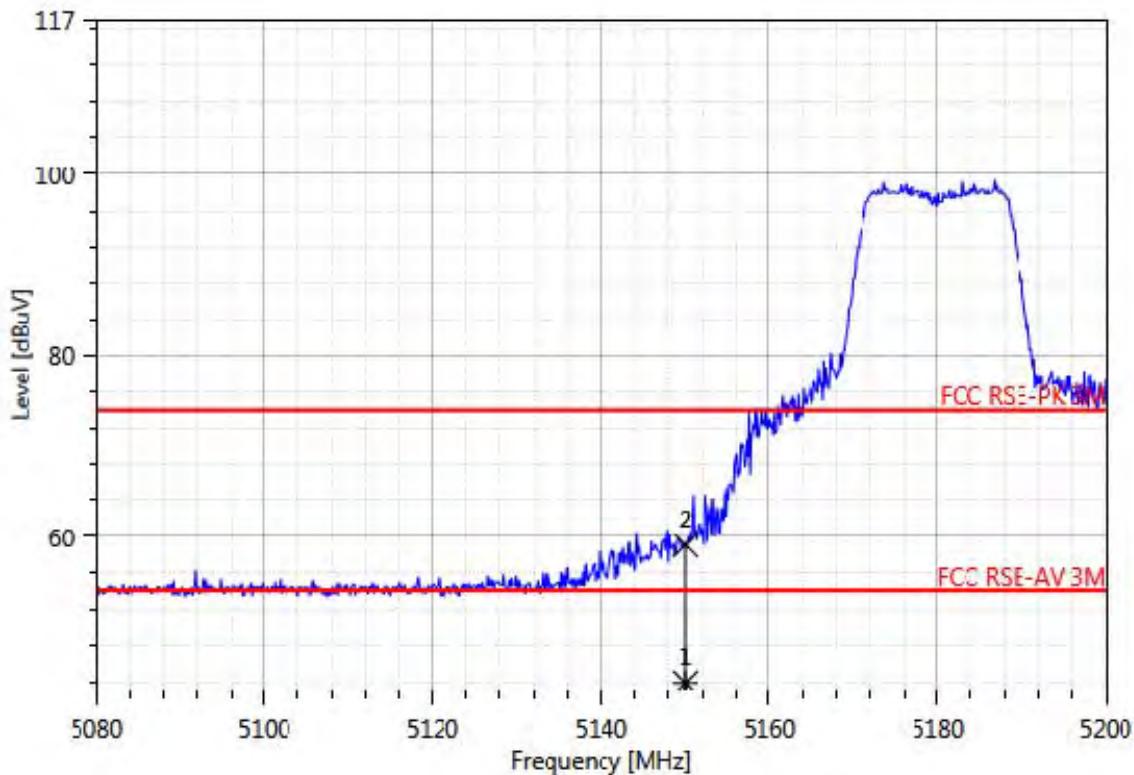
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802.11n20 HT mode

Operation Mode : 802.11n20UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5180 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



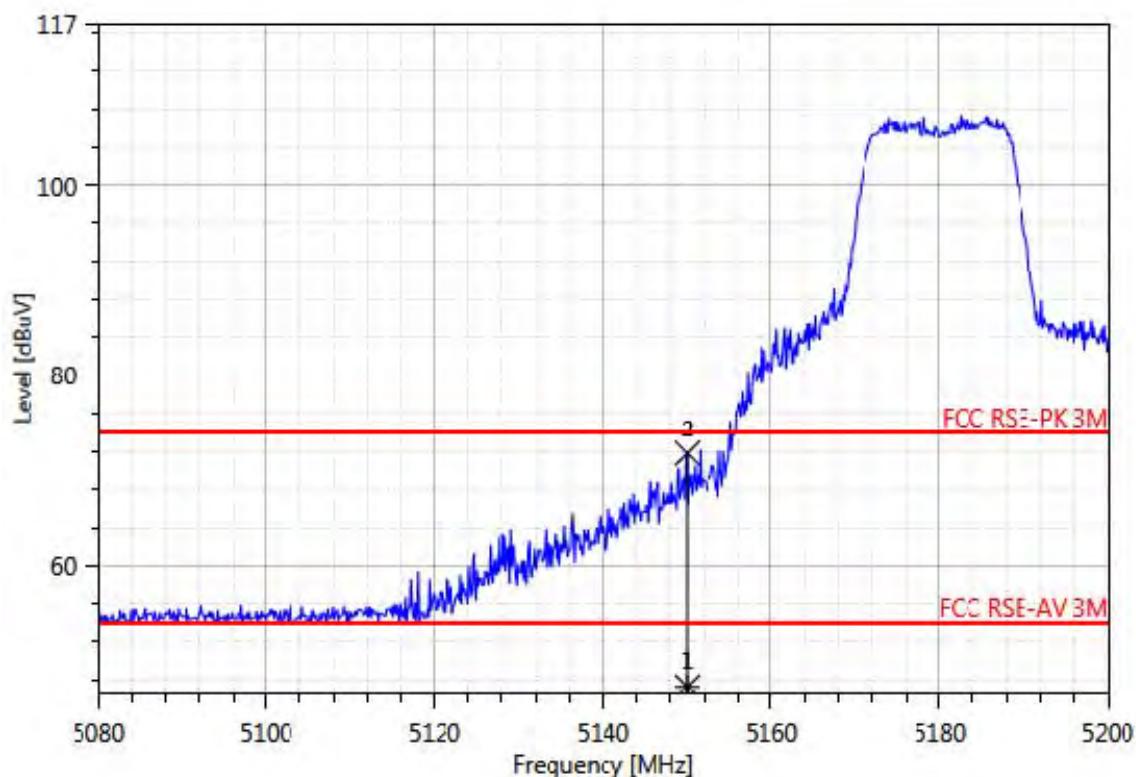
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dB μ V/m	Margin dB
						5.88	54.00
5150.00	E	Average	43.91	38.03	5.88	54.00	-10.09
5150.00	E	Peak	59.10	53.22	5.88	74.00	-14.90

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Operation Mode : 802.11n20UNII-1 Test Date : 11/02/2016
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



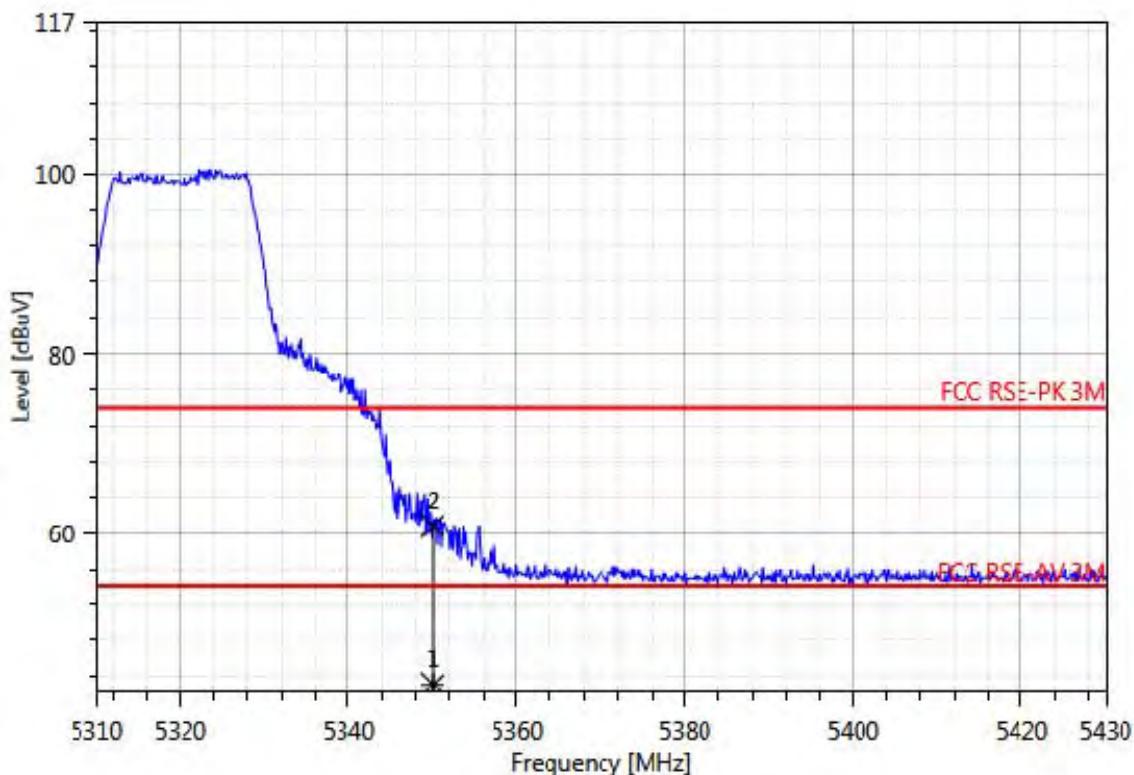
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5150.00	E	Average	47.27	41.39	5.88	54.00	-6.73
5150.00	E	Peak	71.83	65.95	5.88	74.00	-2.17

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Operation Mode : 802.11n20UNII-2A Test Date : 11/02/2016
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



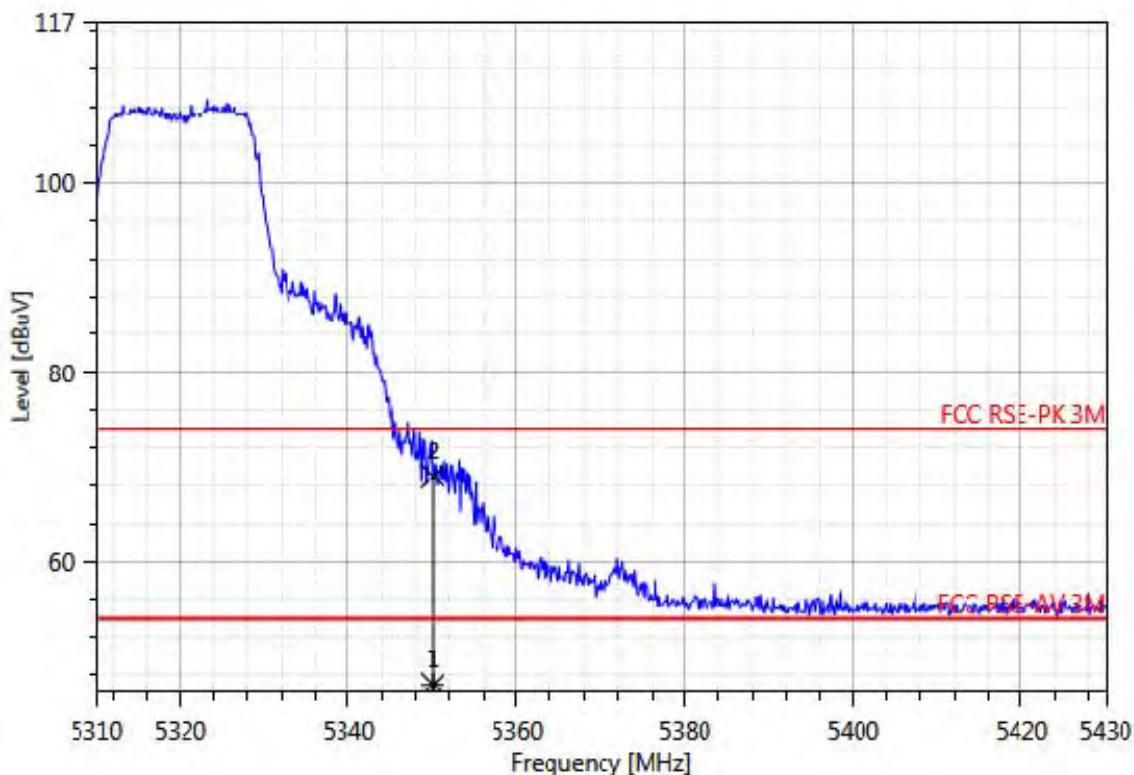
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5350.00	E	Average	43.12	36.97	6.15	54.00	-10.88
5350.00	E	Peak	60.84	54.69	6.15	74.00	-13.16

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Operation Mode : 802.11n20UNII-2A Test Date : 11/02/2016
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



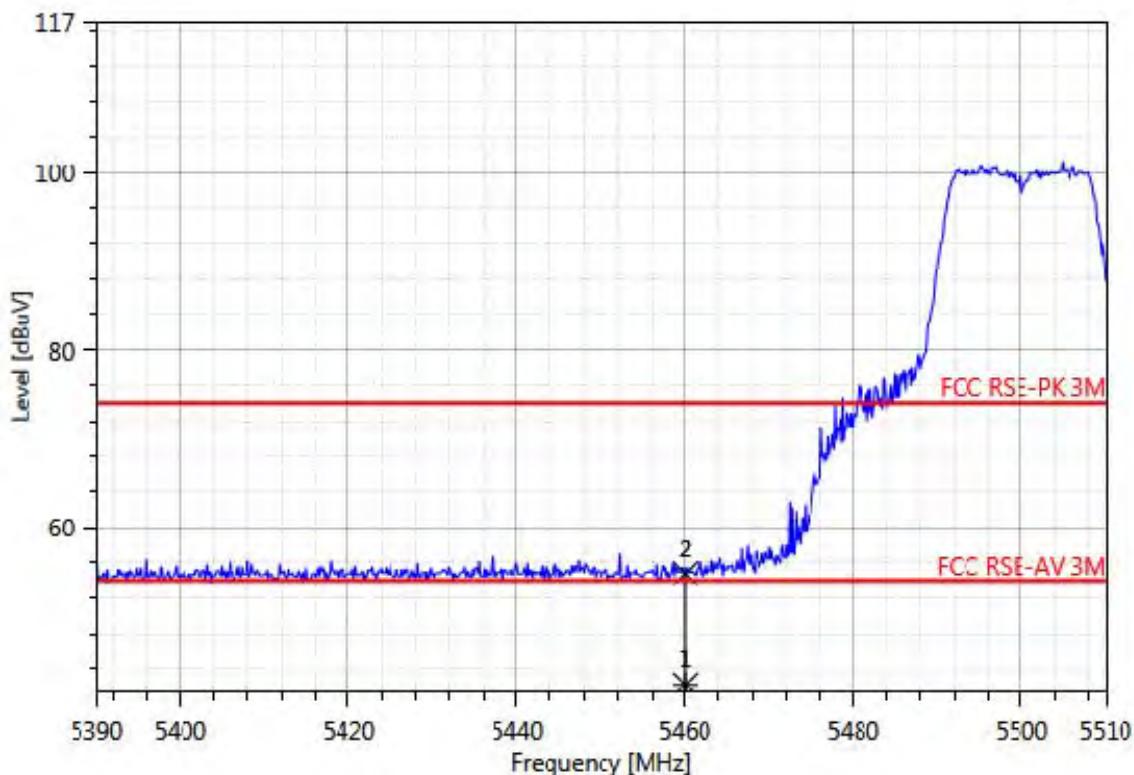
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5350.00	E	Average	47.00	40.85	6.15	54.00	-7.00
5350.00	E	Peak	69.01	62.86	6.15	74.00	-4.99

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Operation Mode : 802.11n20UNII-2C Test Date : 11/02/2016
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



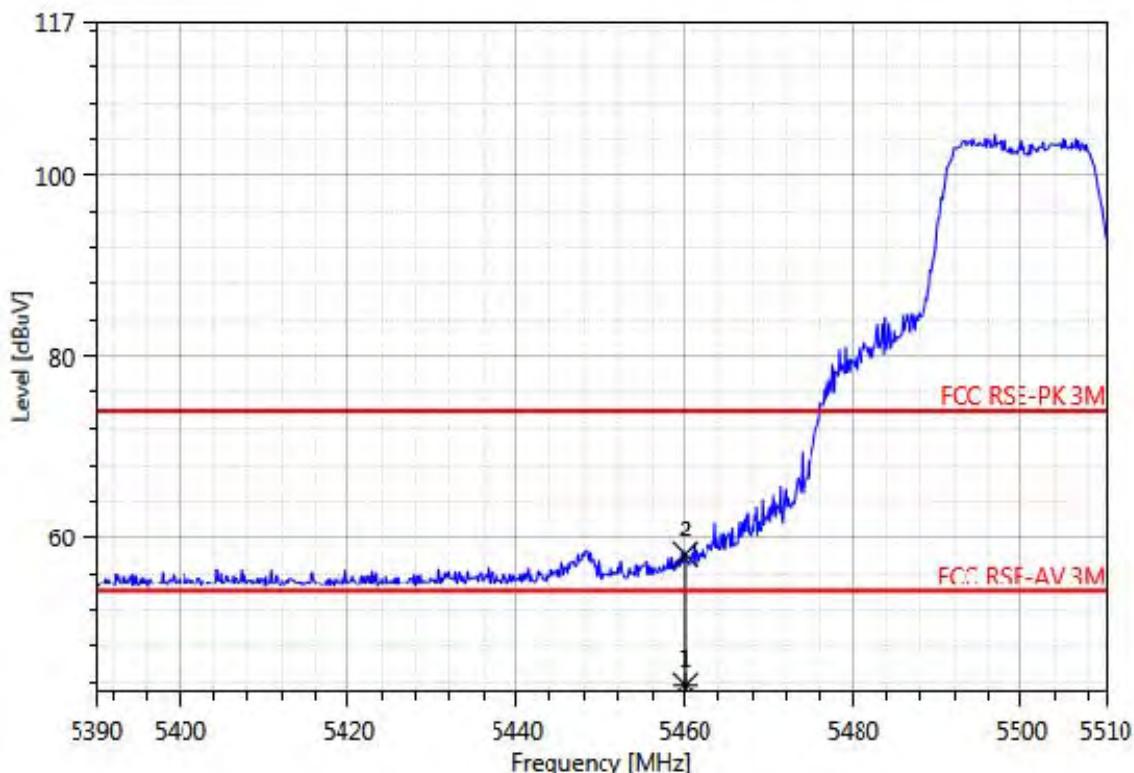
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5460.00	E	Average	42.22	35.99	6.23	54.00	-11.78
5460.00	E	Peak	54.76	48.53	6.23	74.00	-19.24

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Operation Mode : 802.11n20UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



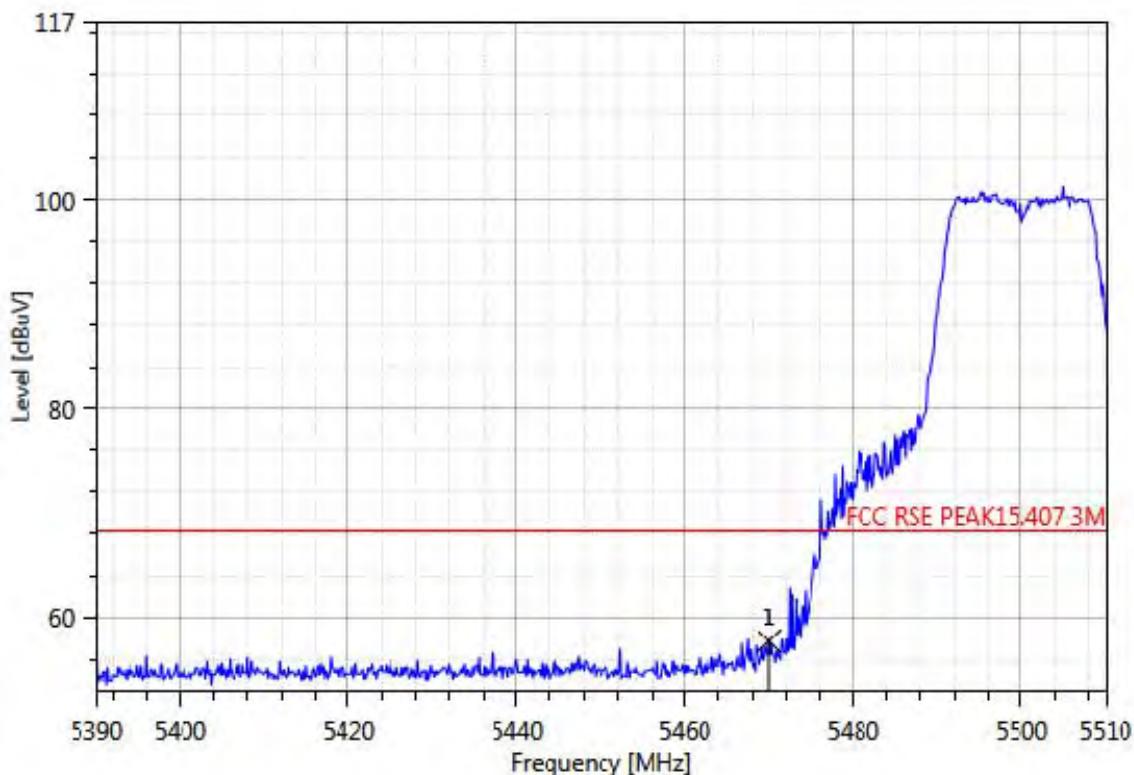
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5460.00	E	Average	43.70	37.47	6.23	54.00	-10.30
5460.00	E	Peak	58.10	51.87	6.23	74.00	-15.90

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Operation Mode : 802.11n20UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH LOW | Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



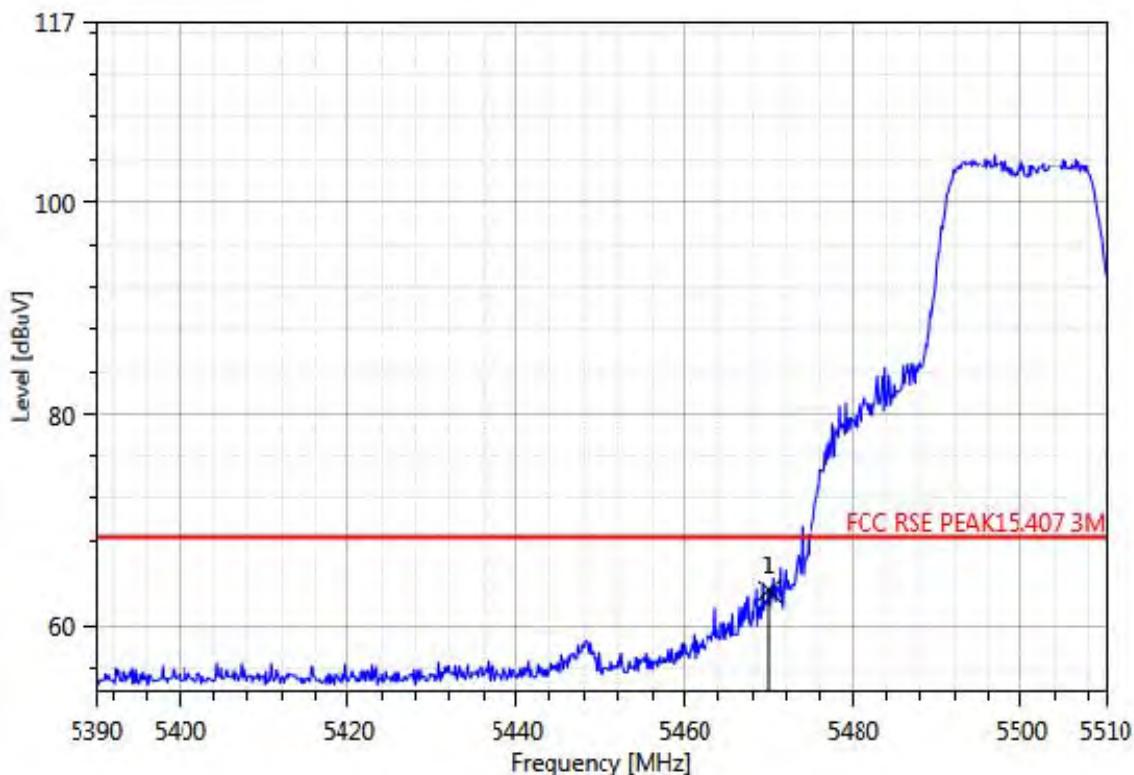
Freq. MHz	Note F/H/E/S	Decetor Mode	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5470.00	E	Peak	57.73	51.47	6.26	68.30	-10.57

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Operation Mode : 802.11n20UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH LOW | Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



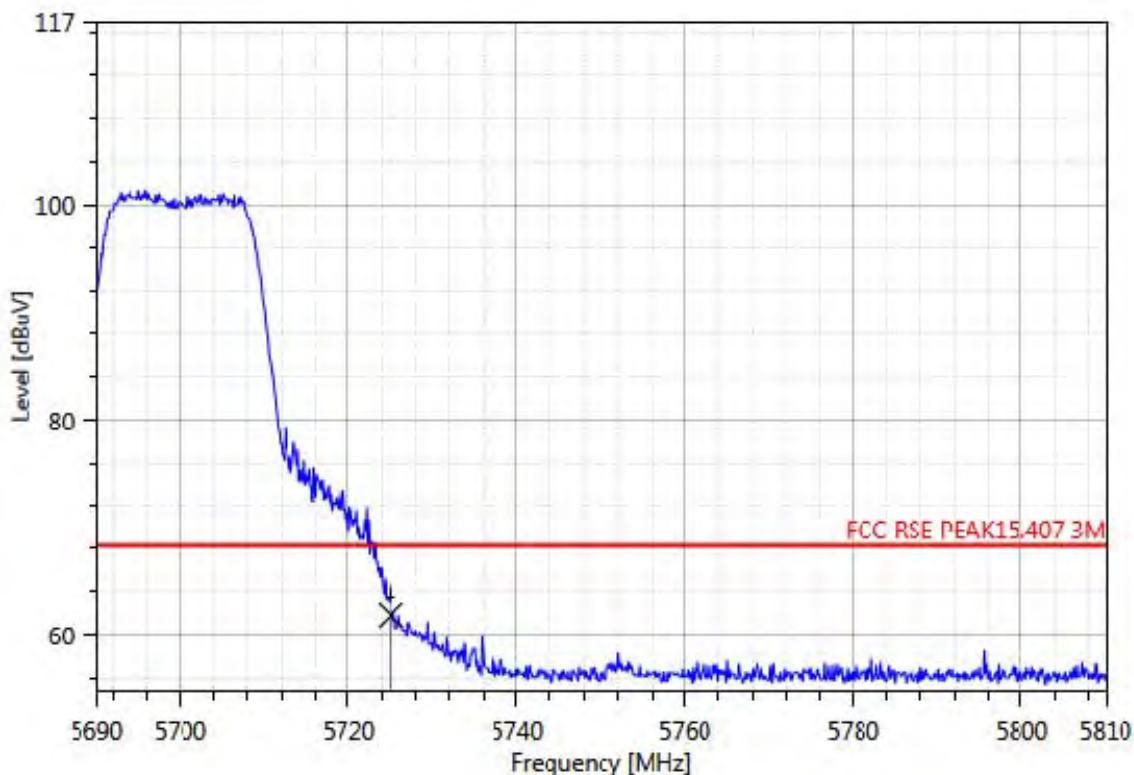
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5470.00	E	Peak	63.30	57.04	6.26	68.30	-5.00

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Operation Mode : 802.11n20UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5700 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



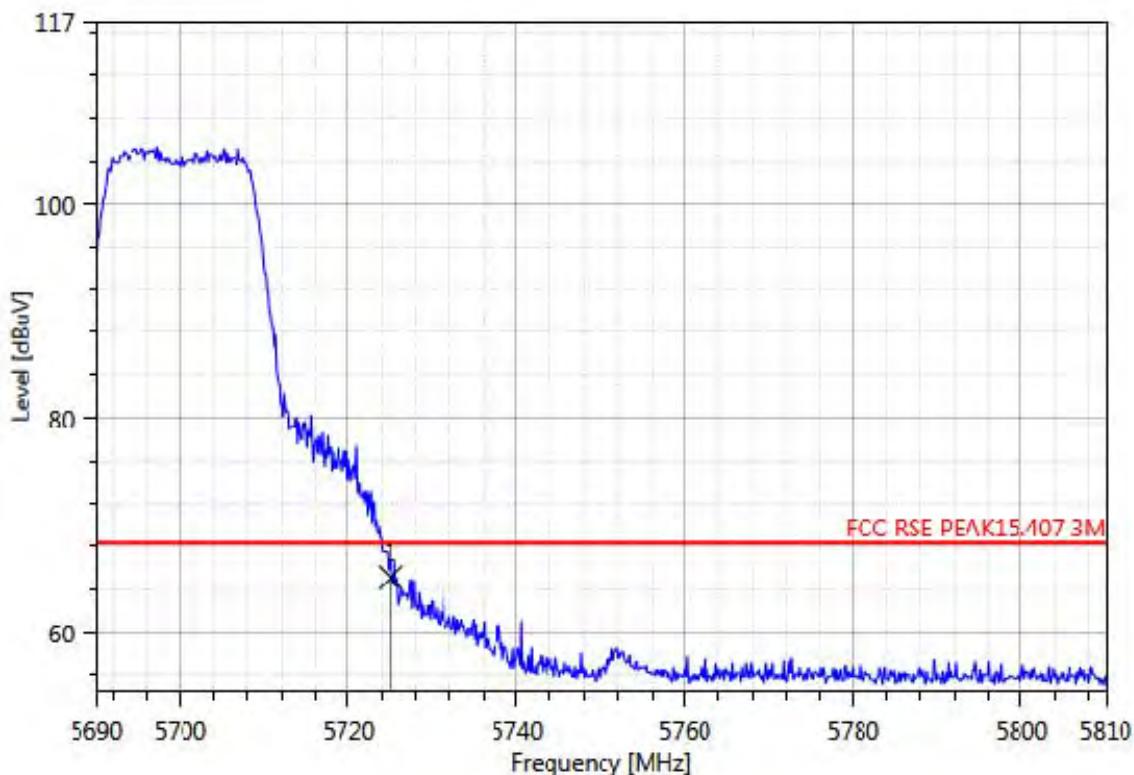
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	61.83	55.24	6.59	68.30	-6.47

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Operation Mode : 802.11n20UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5700 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



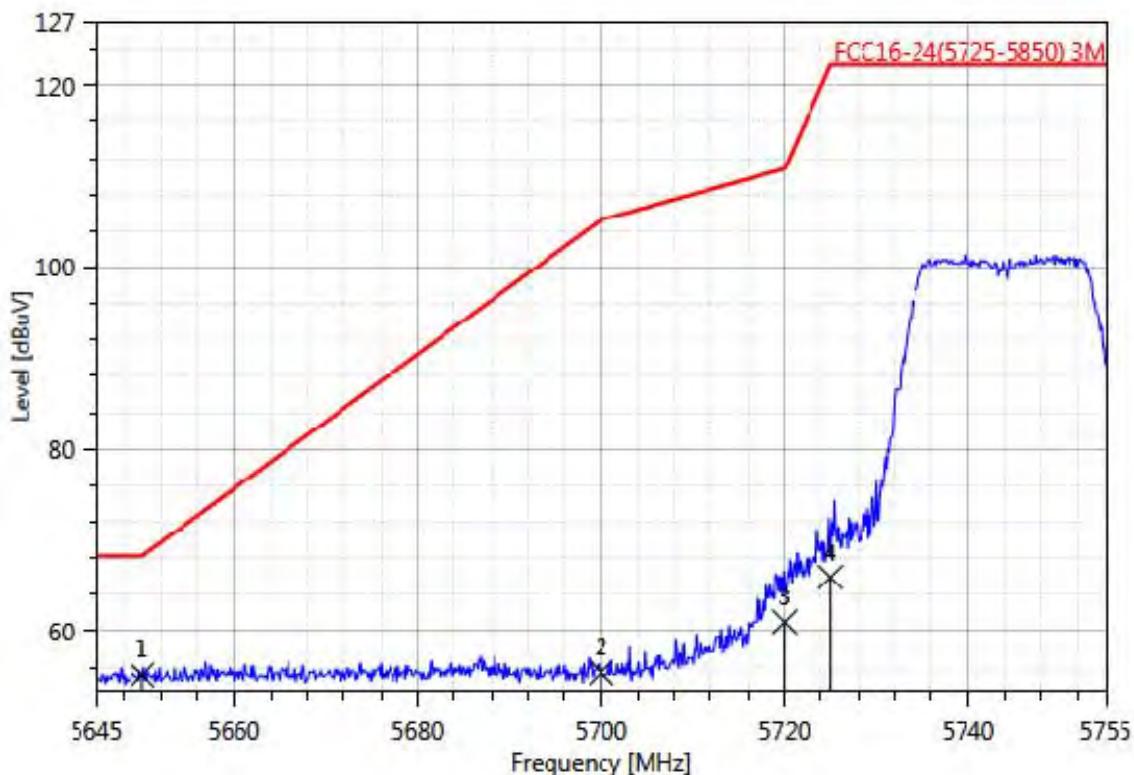
Freq. MHz	Note F/H/E/S	Decetor Mode	Actual Reading	Spectrum FS	Factor	Limit @3m	Margin
		QP/AV/PK	Level dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5725.00	E	Peak	65.11	58.52	6.59	68.30	-3.19

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Operation Mode : 802.11n20UNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
						Actual Reading Level dB μ V/m	
5650.00	E	Peak	55.18	48.70	6.48	68.23	-13.05
5700.00	E	Peak	55.45	48.77	6.68	105.23	-49.78
5720.00	E	Peak	61.00	54.40	6.60	110.83	-49.83
5725.00	E	Peak	65.90	59.31	6.59	122.23	-56.33

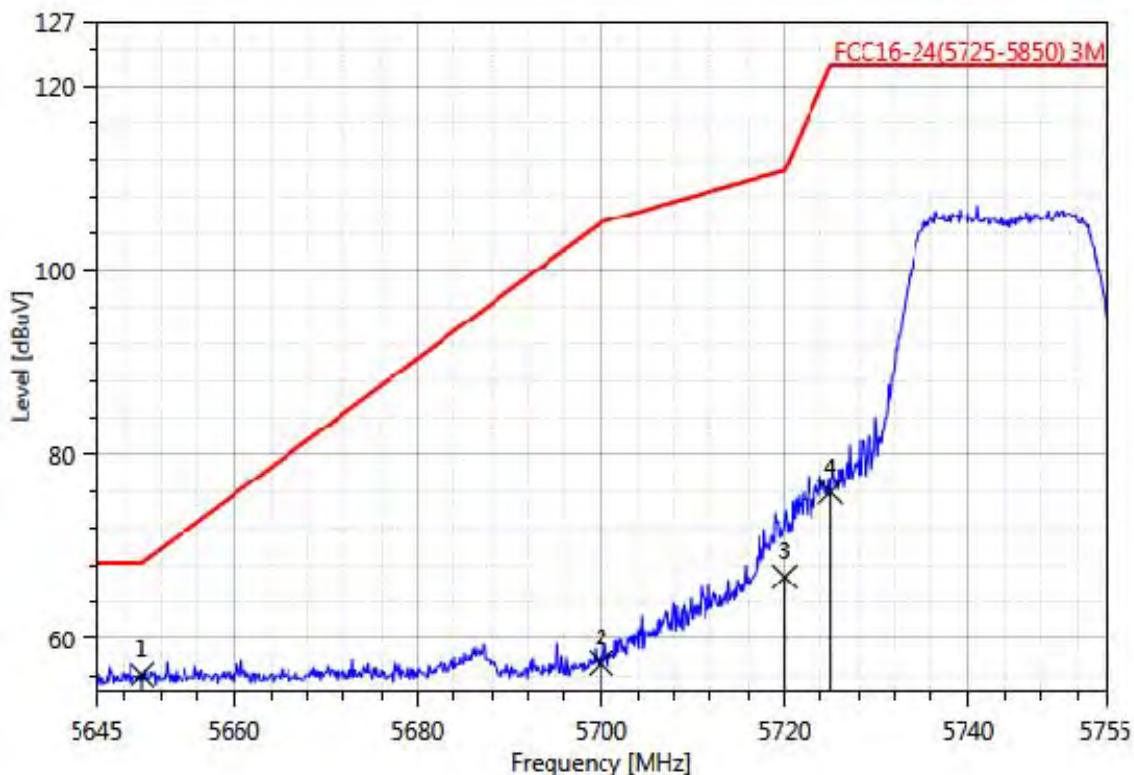
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Operation Mode : 802.11n20UNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
						5645.00	5700.00
5645.00	E	Peak	56.11	49.63	6.48	68.23	-12.12
5700.00	E	Peak	57.35	50.67	6.68	105.23	-47.88
5720.00	E	Peak	66.71	60.11	6.60	110.83	-44.12
5725.00	E	Peak	75.93	69.34	6.59	122.23	-46.30

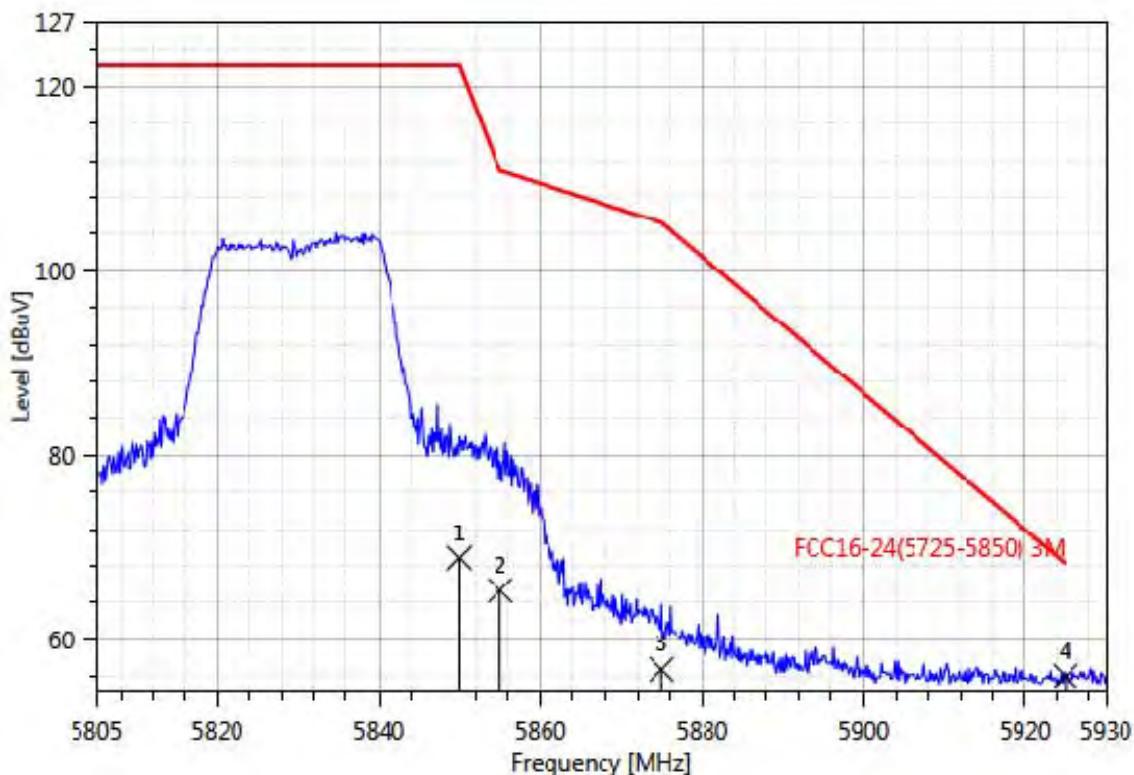
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Operation Mode : 802.11n20UNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



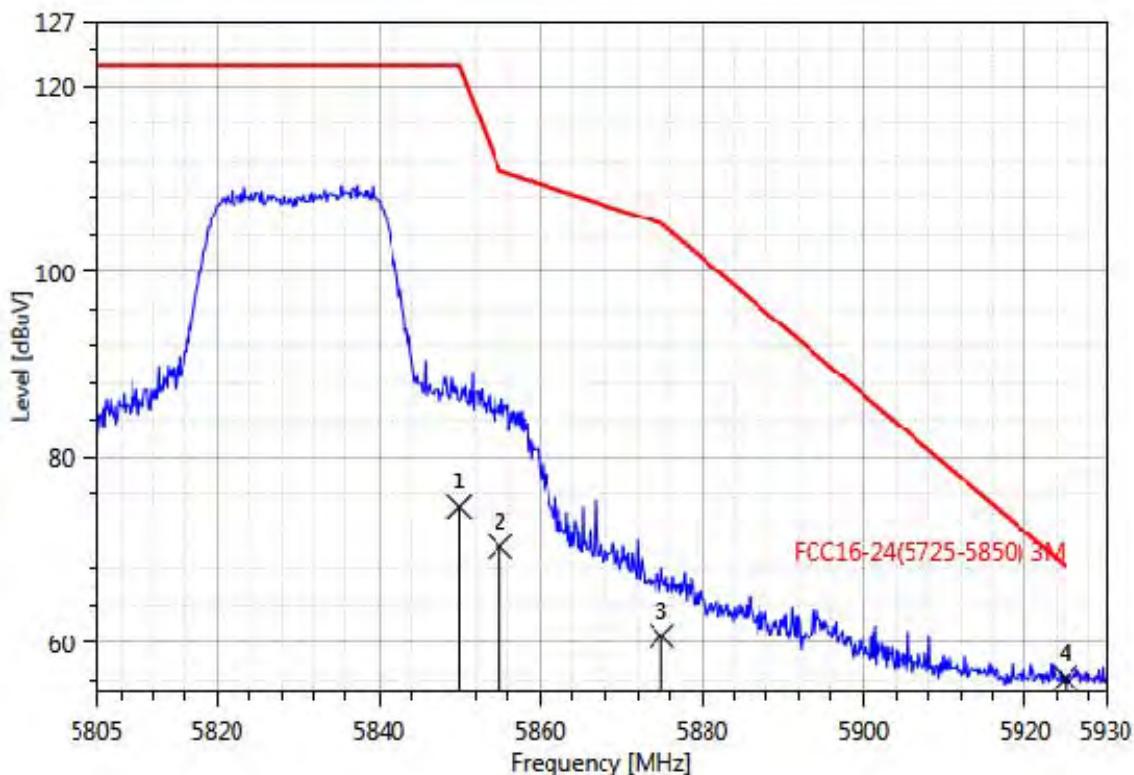
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m	Margin dB
						Limit dB μ V/m	
5850.00	E	Peak	68.85	61.56	7.28	122.23	-53.38
5855.00	E	Peak	65.33	58.01	7.32	110.83	-45.50
5875.00	E	Peak	56.78	49.41	7.37	105.23	-48.45
5925.00	E	Peak	56.04	48.65	7.39	68.23	-12.19

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Operation Mode : 802.11n20UNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
						Actual Reading Level dB μ V/m	
5850.00	E	Peak	74.63	67.35	7.28	122.23	-47.60
5855.00	E	Peak	70.33	63.01	7.32	110.83	-40.50
5875.00	E	Peak	60.69	53.32	7.37	105.23	-44.54
5925.00	E	Peak	56.17	48.78	7.39	68.23	-12.06

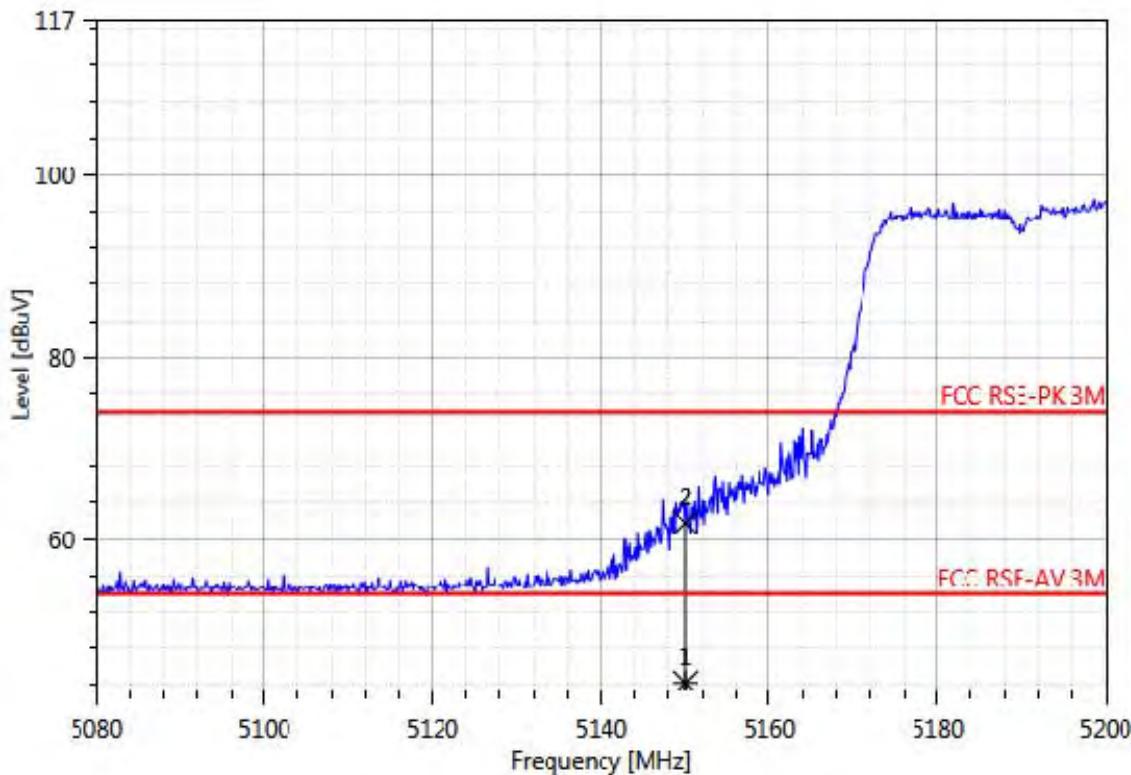
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802.11n40 HT mode

Operation Mode : 802.11n40UNII-1 Test Date : 11/02/2016
Fundamental Frequency : 5190 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



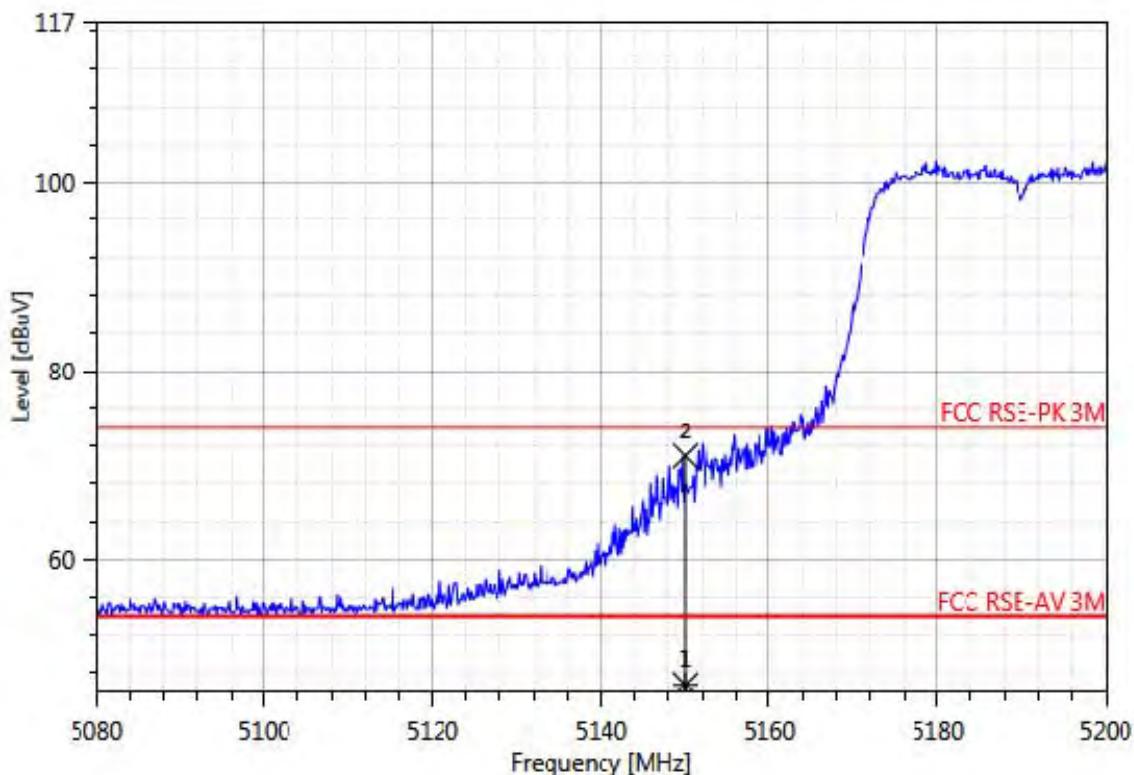
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
						5.88	54.00
5150.00	E	Average	44.26	38.38	5.88	54.00	-9.74
5150.00	E	Peak	61.82	55.94	5.88	74.00	-12.18

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Operation Mode : 802.11n40UNII-1 Test Date : 11/02/2016
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



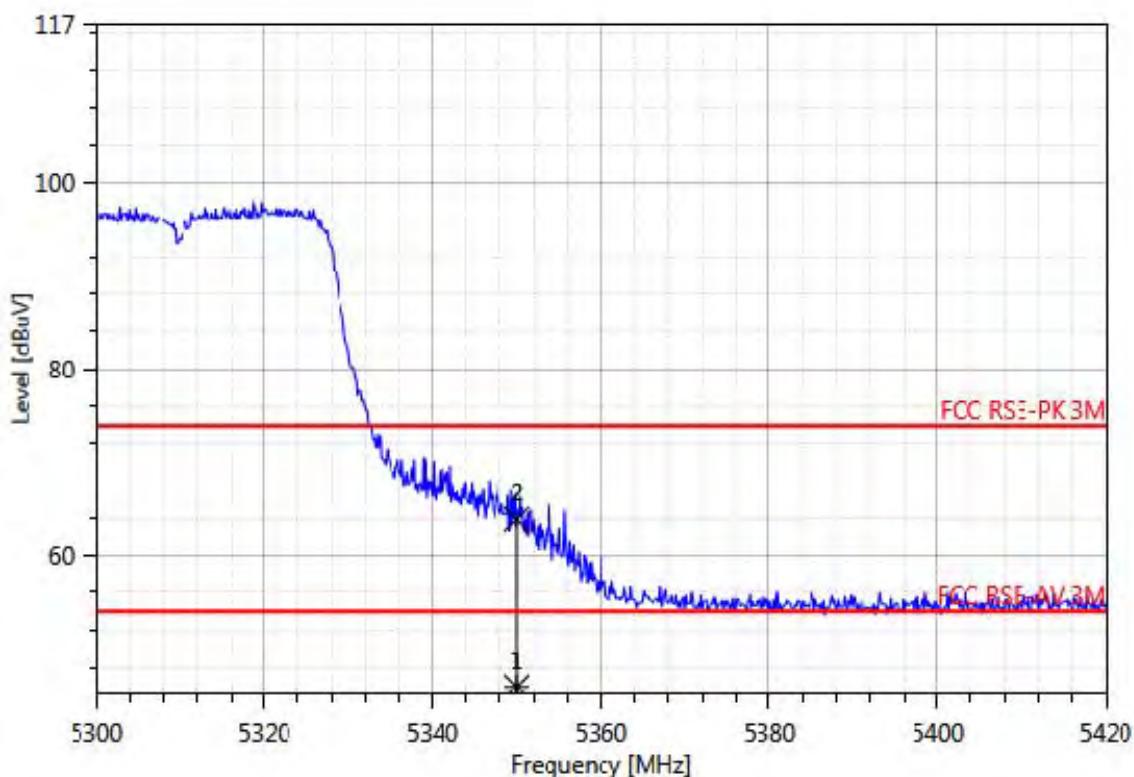
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5150.00	E	Average	46.74	40.86	5.88	54.00	-7.26
5150.00	E	Peak	71.01	65.13	5.88	74.00	-2.99

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Operation Mode : 802.11n40UNII-2A Test Date : 11/02/2016
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



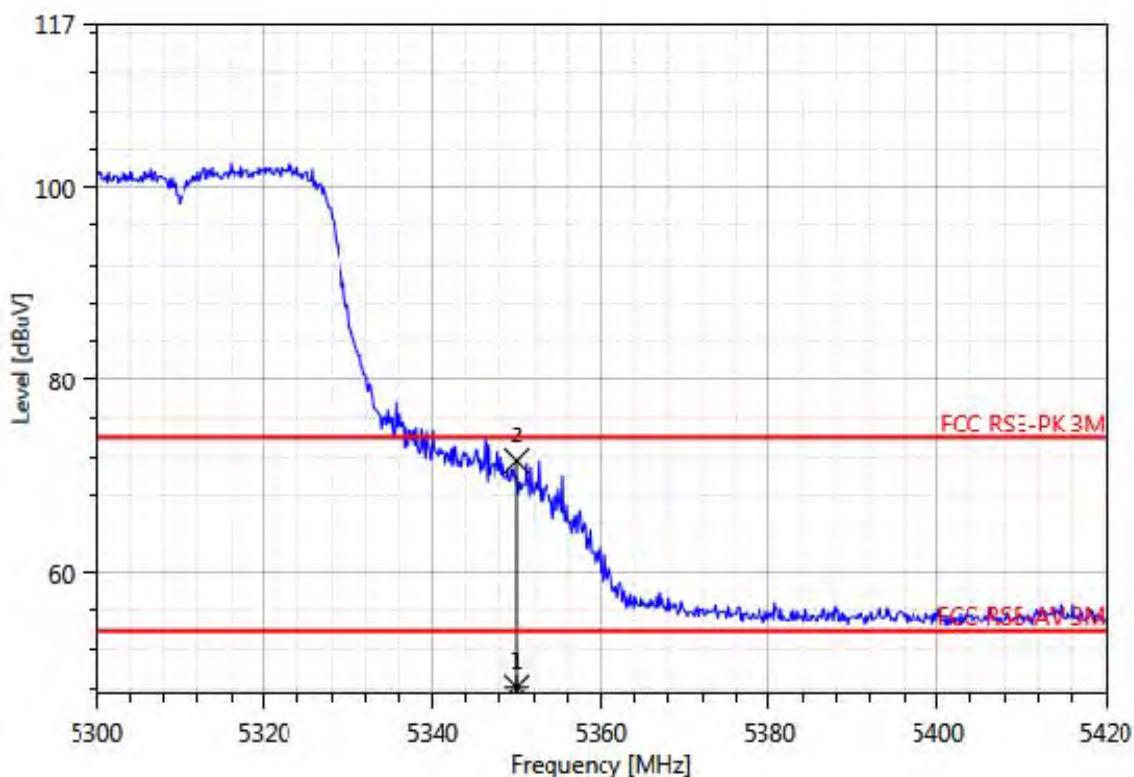
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5350.00	E	Average	45.96	39.81	6.15	54.00	-8.04
5350.00	E	Peak	63.96	57.81	6.15	74.00	-10.04

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Operation Mode : 802.11n40UNII-2A Test Date : 11/02/2016
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



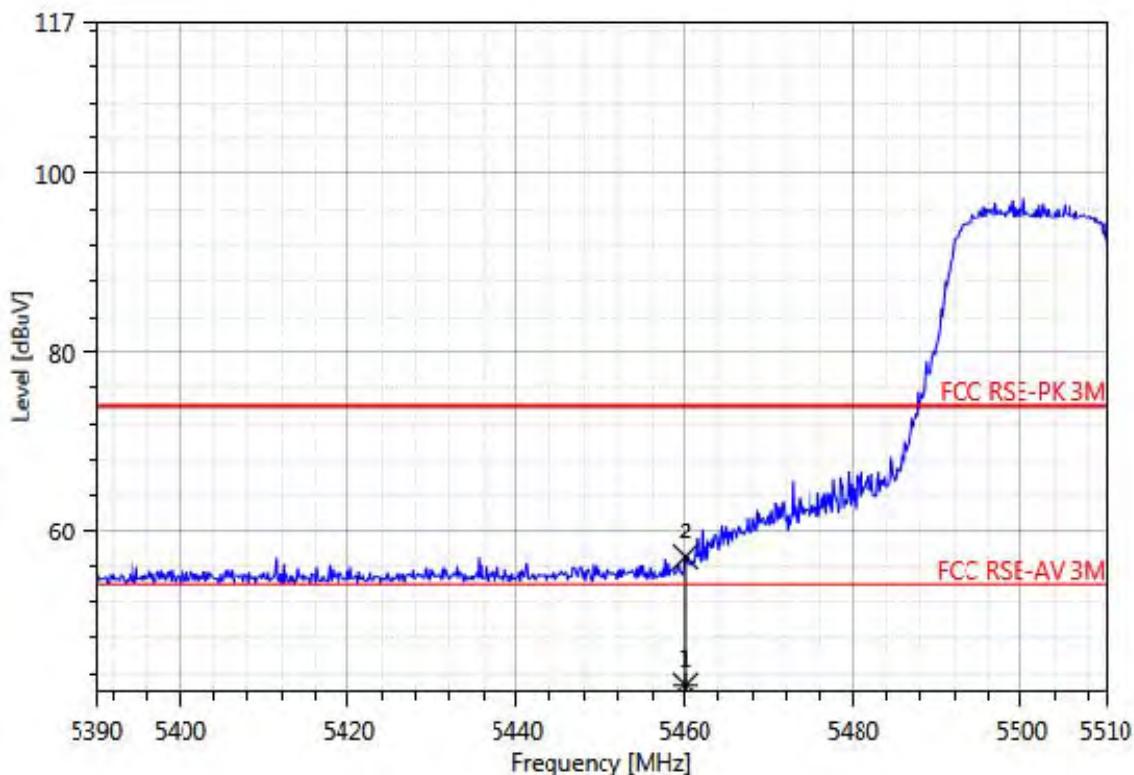
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5350.00	E	Average	48.15	42.00	6.15	54.00	-5.85
5350.00	E	Peak	71.62	65.47	6.15	74.00	-2.38

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Operation Mode : 802.11n40UNII-2C Test Date : 11/02/2016
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5460.00	E	Average	42.78	36.55	6.23	54.00	-11.22
5460.00	E	Peak	57.09	50.86	6.23	74.00	-16.91

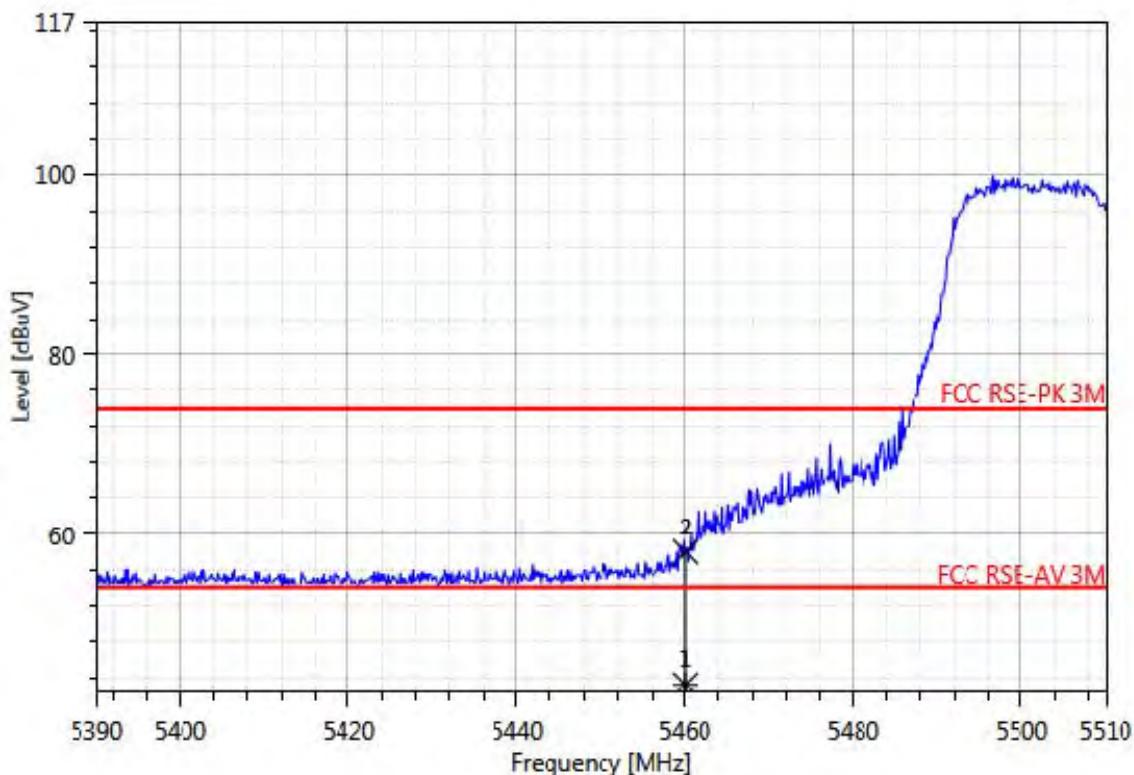
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Operation Mode : 802.11n40UNII-2C Test Date : 11/02/2016
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



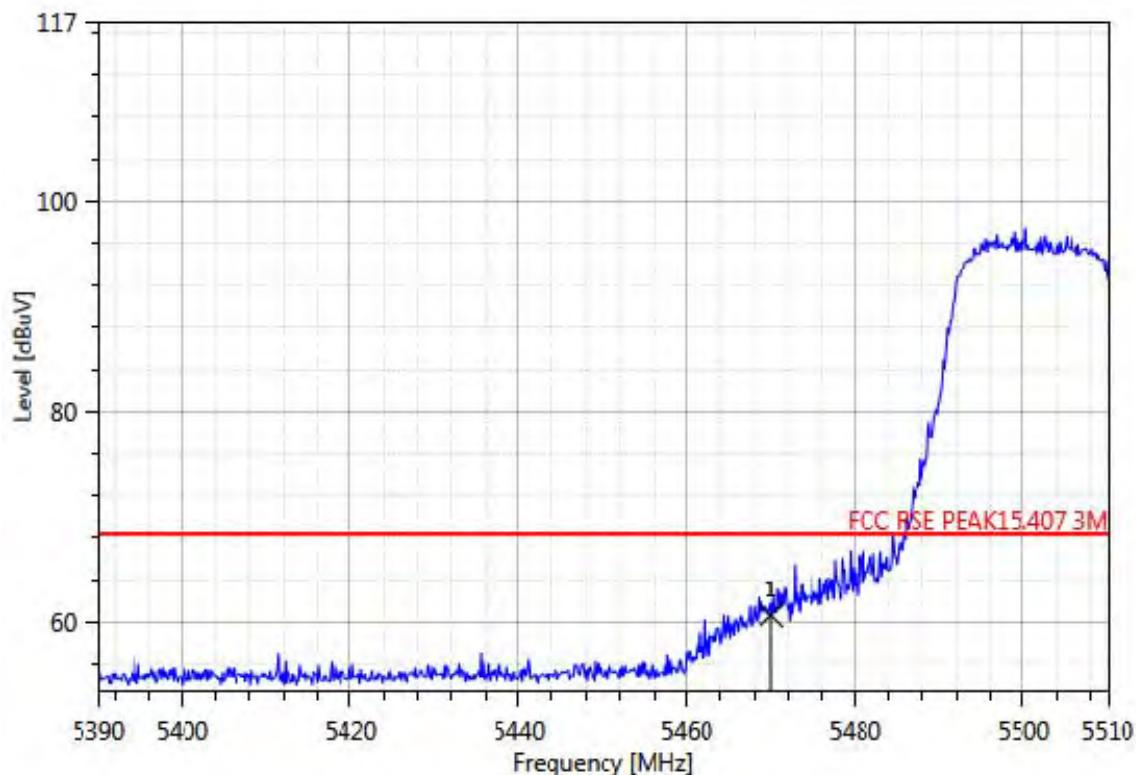
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5460.00	E	Average	43.28	37.05	6.23	54.00	-10.72
5460.00	E	Peak	58.05	51.82	6.23	74.00	-15.95

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Operation Mode : 802.11n40UNII-2C Test Date : 11/02/2016
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW | Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



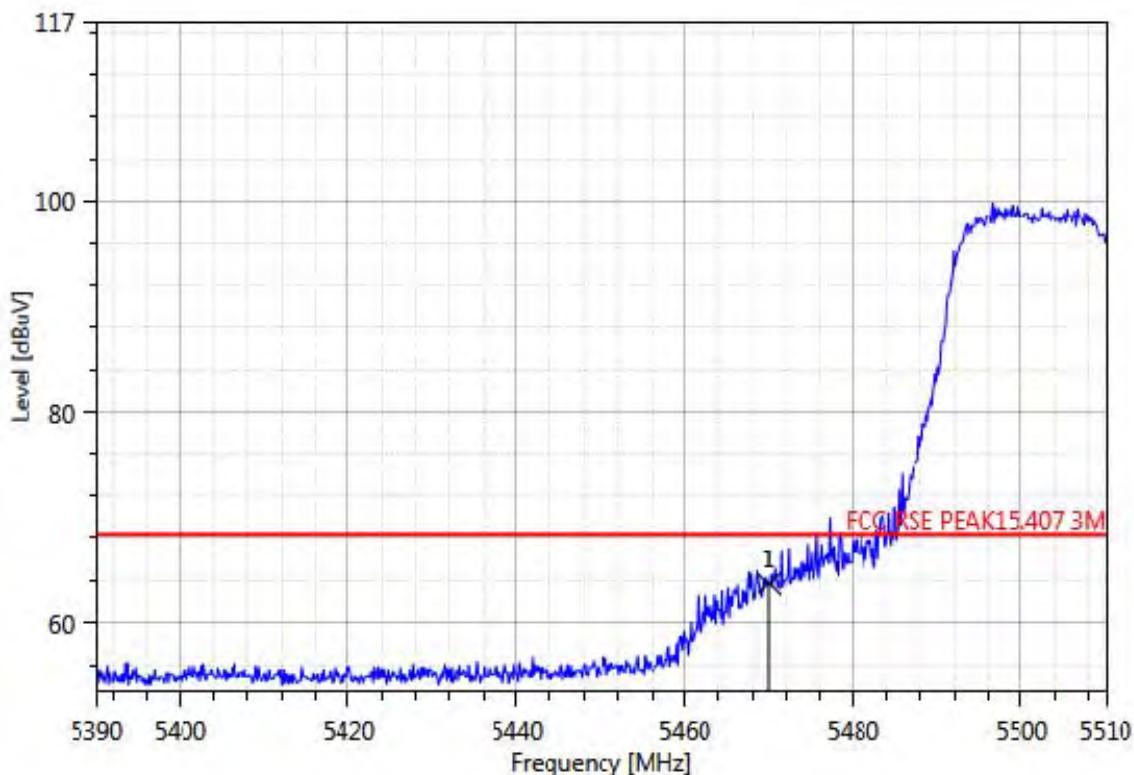
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5470.00	E	Peak	60.65	54.39	6.26	68.30	-7.65

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Operation Mode : 802.11n40UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5510 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH LOW | Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



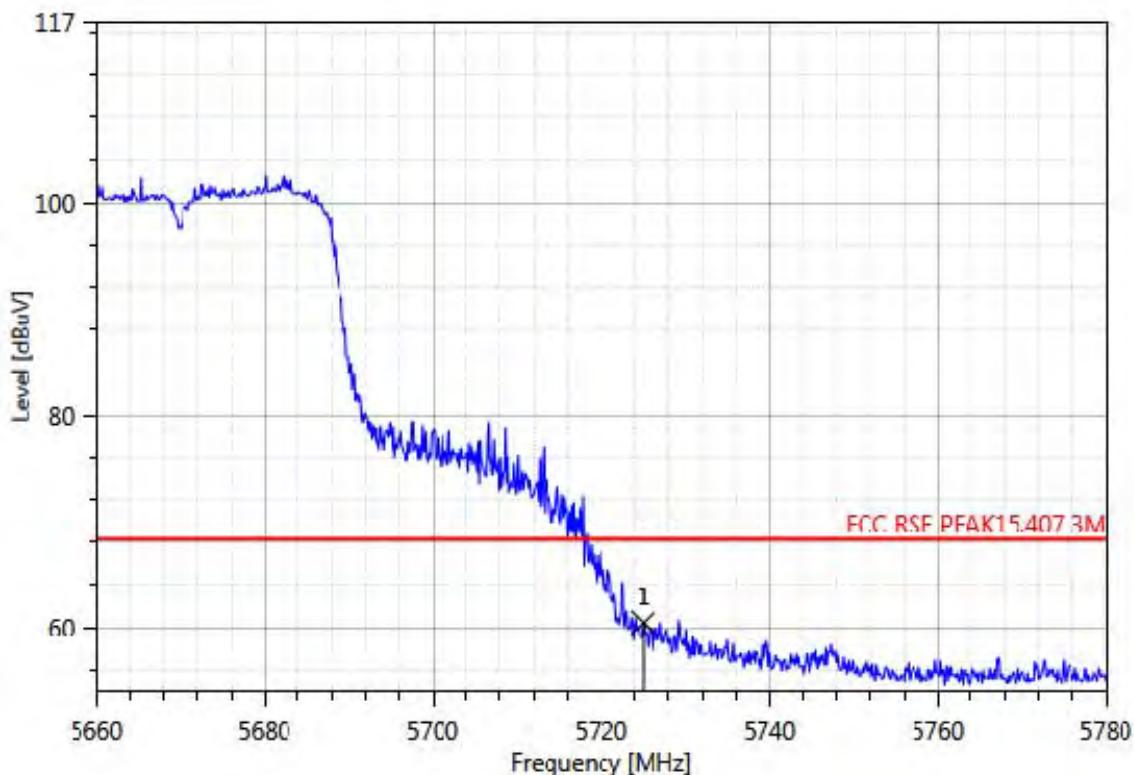
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5470.00	E	Peak	63.74	57.48	6.26	68.30	-4.56

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Operation Mode : 802.11n40UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5670 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



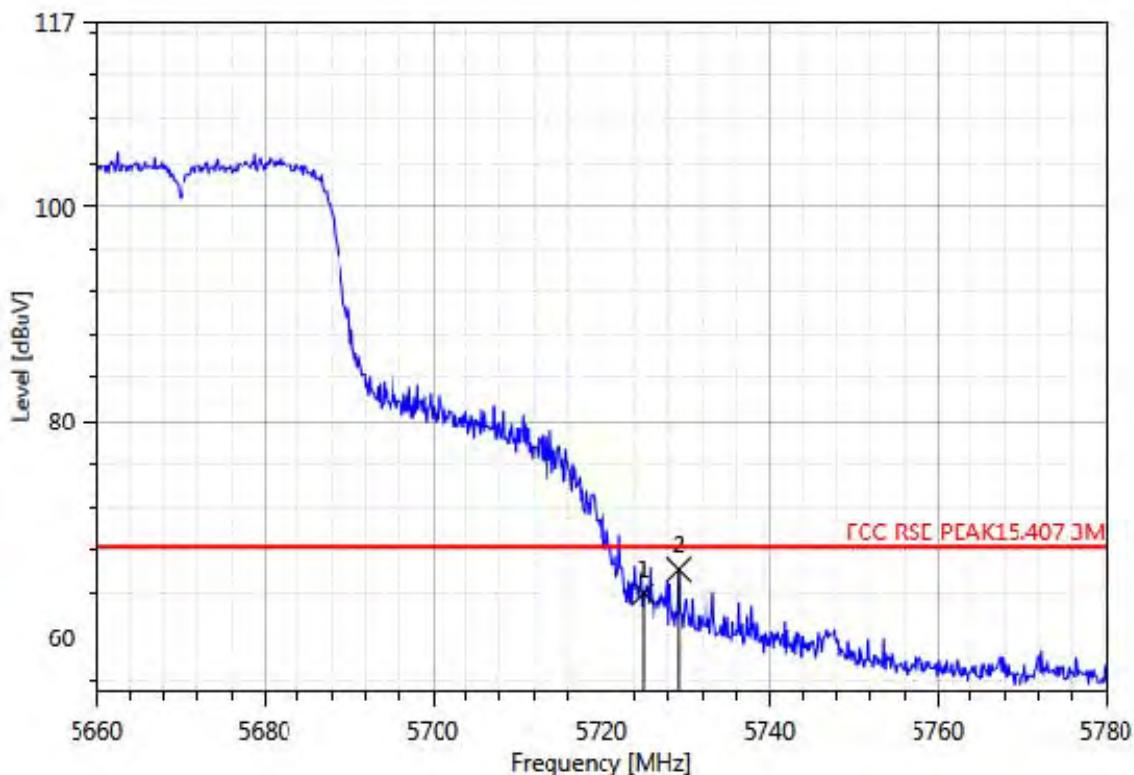
Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading	FS	dB	@3m	
		QP/AV/PK	Level	dB μ V/m		dBuV/m	dB
5725.00	E	Peak	60.48	53.89	6.59	68.30	-7.82

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Operation Mode : 802.11n40UNII-2C Test Date : 11/02/2016
Fundamental Frequency : 5670 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



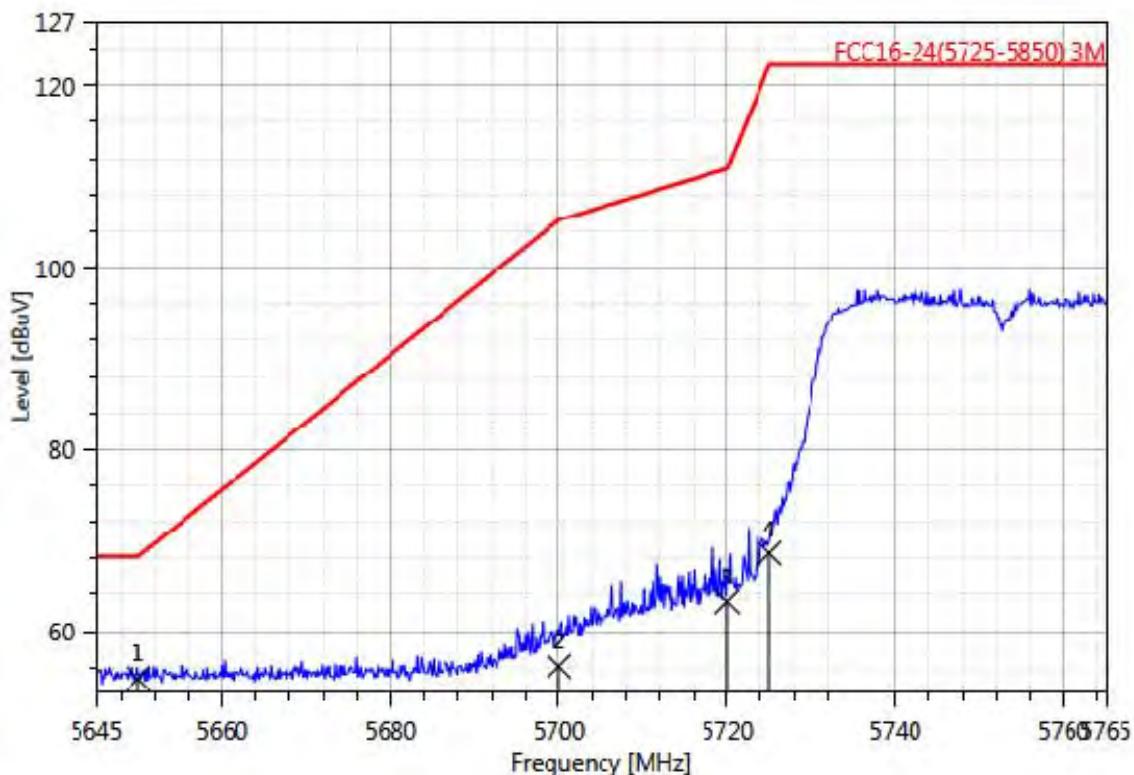
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5725.00	E	Peak	64.00	57.41	6.59	68.30	-4.30
5729.24	S	Peak	66.29	59.65	6.64	68.30	-2.01

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Operation Mode : 802.11n40UNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH LOW Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
						Margin dB	
5650.00	E	Peak	54.80	48.32	6.48	68.23	-13.43
5700.00	E	Peak	56.14	49.47	6.68	105.23	-49.09
5720.00	E	Peak	63.23	56.63	6.60	110.83	-47.60
5725.00	E	Peak	68.60	62.01	6.59	122.23	-53.63

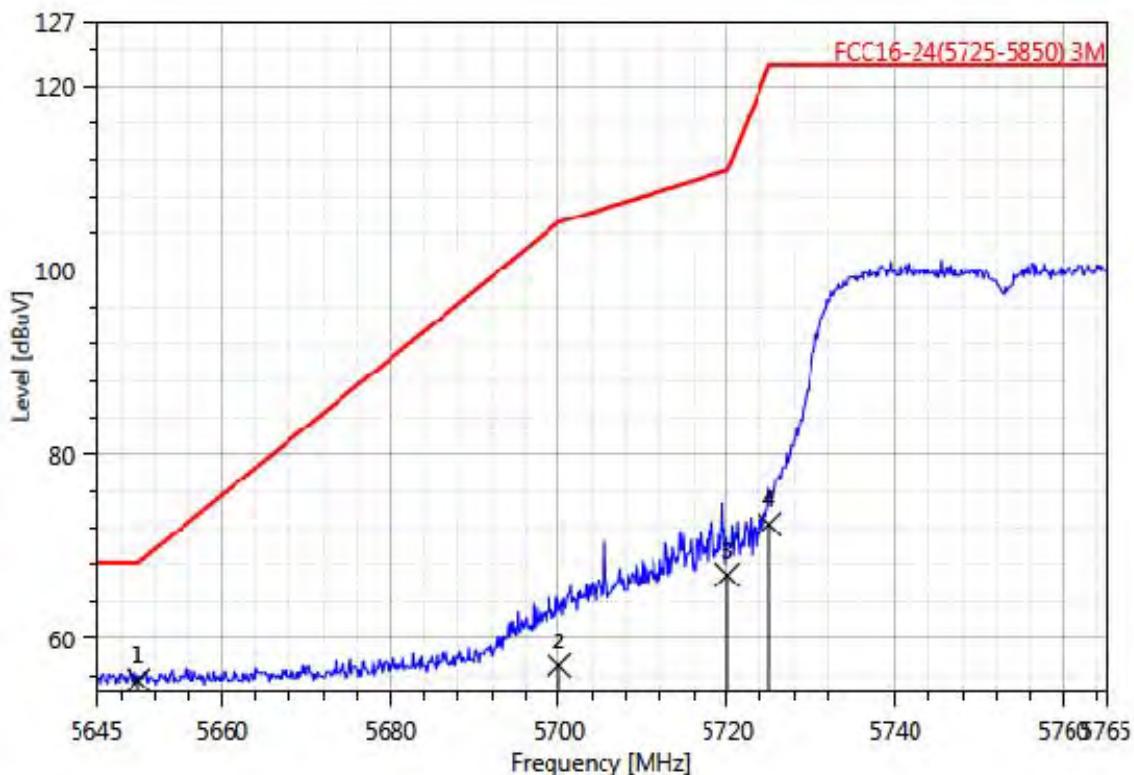
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Operation Mode : 802.11n40UNII-3 Test Date : 11/02/2016
Fundamental Frequency : 5755 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode	Actual	Spectrum	Factor	Limit @3m	Margin
			Reading	FS			
5650.00	E	Peak	55.44	48.96	6.48	68.23	-12.79
5700.00	E	Peak	57.07	50.40	6.68	105.23	-48.16
5720.00	E	Peak	66.88	60.28	6.60	110.83	-43.95
5725.00	E	Peak	72.41	65.82	6.59	122.23	-49.82

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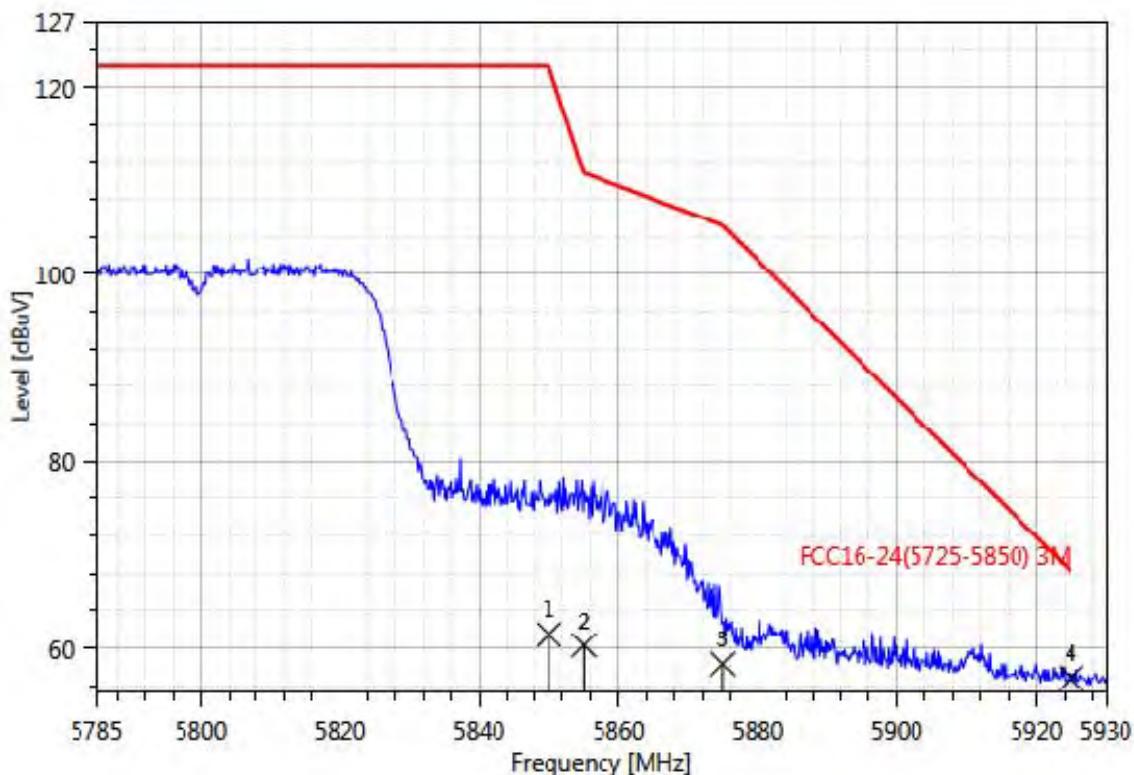
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Operation Mode : 802.11n40UNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



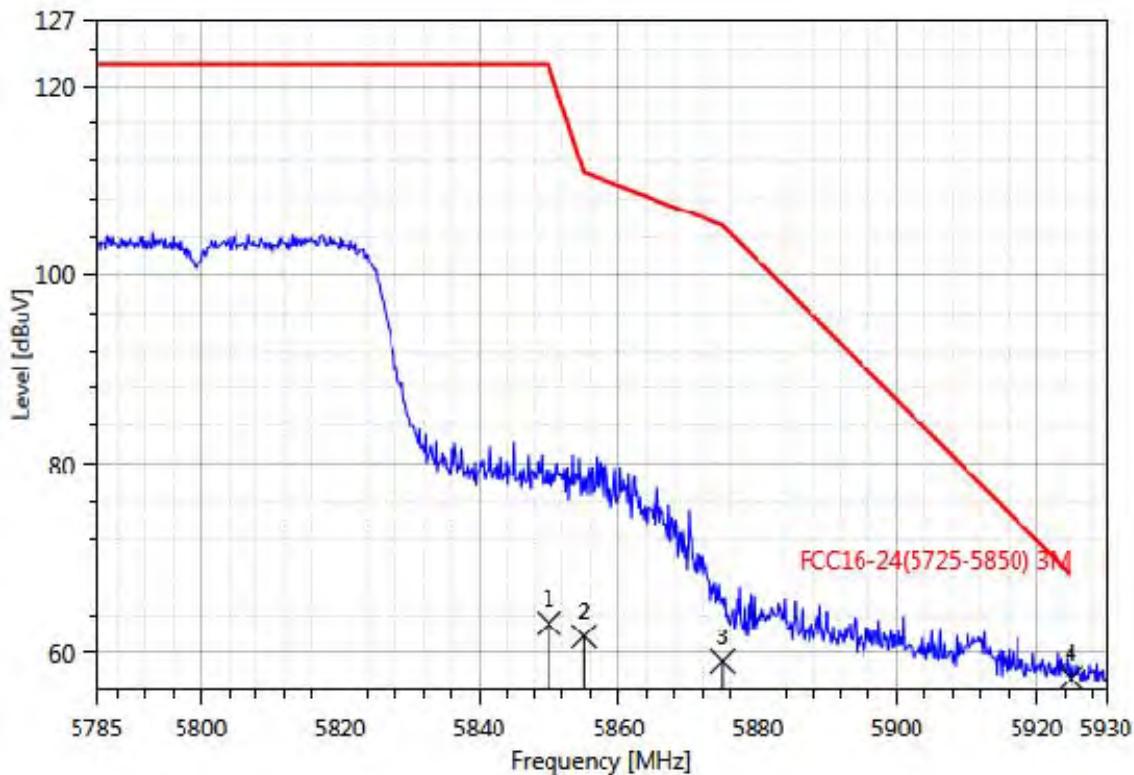
Freq. MHz	Note F/H/E/S	Decetor Mode	Actual Reading	Spectrum	Factor	Limit @3m	Margin
			Level dB μ V/m	FS dB μ V/m			
5850.00	E	Peak	61.47	54.19	7.28	122.23	-60.76
5855.00	E	Peak	60.34	53.02	7.32	110.83	-50.49
5875.00	E	Peak	58.32	50.95	7.37	105.23	-46.91
5925.00	E	Peak	56.81	49.41	7.39	68.23	-11.42

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Operation Mode : 802.11n40UNII-3 Test Date : 11/02/2016
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 21 deg_C / 61 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
5850.00	E	Peak	63.11	55.83	7.28	122.23	-59.12
5855.00	E	Peak	61.74	54.43	7.32	110.83	-49.09
5875.00	E	Peak	59.11	51.74	7.37	105.23	-46.12
5925.00	E	Peak	57.33	49.94	7.39	68.23	-10.90

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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

No non-compliance noted:

Refer to the theory of operation.

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13 FREQUENCY STABILITY

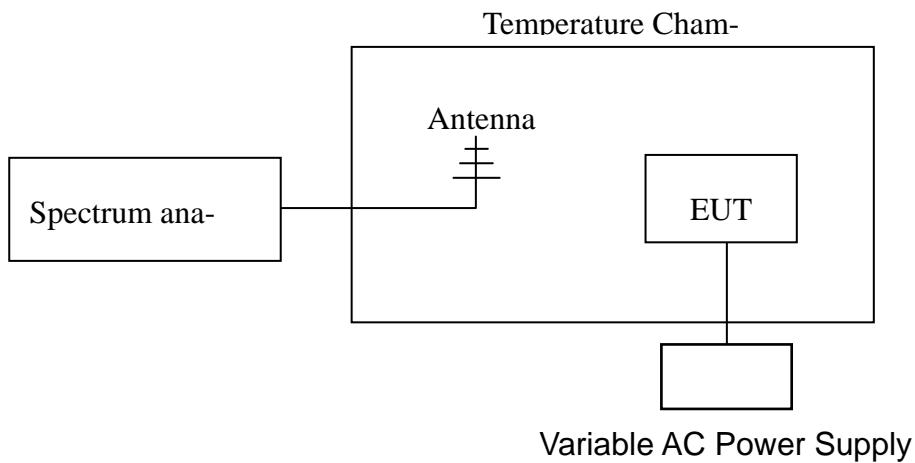
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/06/2016	01/05/2017
Coaxial Cable	HUBER+SUH NER	SUCOFLEX 102	23670/2	01/06/2016	01/05/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/06/2016	01/05/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/22/2015	11/21/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/18/2015	05/17/2016

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13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2016.3.15
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	5,179.93178	0.00001317
		44	5220	5,219.93116	0.00001319
		48	5240	5,239.93082	0.00001320
		52	5260	5,259.93053	0.00001321
		60	5300	5,299.92995	0.00001322
		64	5320	5,319.92962	0.00001323
		100	5500	5,499.92688	0.00001329
		116	5580	5,579.92600	0.00001326
		140	5700	5,699.92421	0.00001330
		149	5745	5,744.92334	0.00001334
	2.97V	157	5785	5,784.92275	0.00001335
		165	5825	5,824.92214	0.00001337
		36	5180	5,179.93187	0.00001315
		44	5220	5,219.93125	0.00001317
		48	5240	5,239.93084	0.00001320
		52	5260	5,259.93058	0.00001320
		60	5300	5,299.93005	0.00001320
		64	5320	5,319.92975	0.00001320
		100	5500	5,499.92735	0.00001321
		116	5580	5,579.92620	0.00001323
		140	5700	5,699.92440	0.00001326
		149	5745	5,744.92346	0.00001332
		157	5785	5,784.92287	0.00001333
		165	5825	5,824.92222	0.00001335

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25	3.3V	36	5180	5,179.93248	0.00001303
		44	5220	5,219.93184	0.00001306
		48	5240	5,239.93144	0.00001308
		52	5260	5,259.93114	0.00001309
		60	5300	5,299.93051	0.00001311
		64	5320	5,319.93023	0.00001311
		100	5500	5,499.92779	0.00001313
		116	5580	5,579.92658	0.00001316
		140	5700	5,699.92494	0.00001317
		149	5745	5,744.92413	0.00001321
		157	5785	5,784.92360	0.00001321
		165	5825	5,824.92295	0.00001323
55	3.63V	36	5180	5,179.93170	0.00001319
		44	5220	5,219.93111	0.00001320
		48	5240	5,239.93080	0.00001321
		52	5260	5,259.93049	0.00001321
		60	5300	5,299.92988	0.00001323
		64	5320	5,319.92957	0.00001324
		100	5500	5,499.92712	0.00001325
		116	5580	5,579.92588	0.00001328
		140	5700	5,699.92413	0.00001331
		149	5745	5,744.92324	0.00001336
		157	5785	5,784.92265	0.00001337
		165	5825	5,824.92208	0.00001338
	2.97V	36	5180	5,179.93173	0.00001318
		44	5220	5,219.93113	0.00001319
		48	5240	5,239.93080	0.00001321
		52	5260	5,259.93050	0.00001321
		60	5300	5,299.92993	0.00001322
		64	5320	5,319.92959	0.00001323
		100	5500	5,499.92715	0.00001325
		116	5580	5,579.92593	0.00001327
		140	5700	5,699.92417	0.00001330
		149	5745	5,744.92328	0.00001335
		157	5785	5,784.92270	0.00001336
		165	5825	5,824.92210	0.00001337

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Operation Mode	802.11 n_HT40	Test Date	2016.3.15
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	5,189.94396	0.00001080
		46	5230	5,229.94111	0.00001126
		54	5270	5,269.93957	0.00001147
		62	5310	5,309.93834	0.00001161
		102	5510	5,509.93485	0.00001182
		110	5550	5,549.93391	0.00001191
		134	5670	5,669.93209	0.00001198
		151	5755	5,774.92998	-0.00346307
	2.97V	159	5795	5,794.92879	0.00001229
		38	5190	5,189.94509	0.00001058
		46	5230	5,229.94195	0.00001110
		54	5270	5,269.93989	0.00001141
		62	5310	5,309.93861	0.00001156
		102	5510	5,509.93498	0.00001180
		110	5550	5,549.93408	0.00001188
		134	5670	5,669.93240	0.00001192
		151	5755	5,774.93029	-0.00346313
		159	5795	5,794.92916	0.00001222

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25	3.3V	38	5190	5,189.94465	0.00001066
		46	5230	5,229.94282	0.00001093
		54	5270	5,269.94190	0.00001102
		62	5310	5,309.94098	0.00001111
		102	5510	5,509.93834	0.00001119
		110	5550	5,549.93722	0.00001131
		134	5670	5,669.93547	0.00001138
		151	5755	5,754.93385	0.00001149
		159	5795	5,794.93320	0.00001153
		38	5190	5,189.94243	0.00001109
55	3.63V	46	5230	5,229.94049	0.00001138
		54	5270	5,269.93910	0.00001156
		62	5310	5,309.93748	0.00001177
		102	5510	5,509.93454	0.00001188
		110	5550	5,549.93373	0.00001194
		134	5670	5,669.93174	0.00001204
		151	5755	5,774.92959	-0.00346300
		159	5795	5,794.92823	0.00001238
		38	5190	5,189.94324	0.00001094
		46	5230	5,229.94080	0.00001132
55	2.97V	54	5270	5,269.93931	0.00001152
		62	5310	5,309.93767	0.00001174
		102	5510	5,509.93465	0.00001186
		110	5550	5,549.93381	0.00001193
		134	5670	5,669.93195	0.00001200
		151	5755	5,774.92984	-0.00346305
		159	5795	5,794.92857	0.00001233

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

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

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

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

14.2 Antenna Connected Construction

A PIFA antenna design is used.

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

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

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