

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT AND INDUSTRY CANADA RSS 247 CLASS II & IV PC REPORT

OF

Product Name: Single Stream 802.11a/b/g/n/ac + BT4.1 M.2
Brand Name: Type Card
Model No.: Qualcomm Atheros
Model Difference: QCNFA435
FCC ID: N/A
IC: PPD-QCNFA435
Report No.: 4104A-QCNFA435
Issue Date: E2/2016/A0005
FCC Rule Part: Oct. 26, 2016
IC Rule Part: §15.407
Prepared for: RSS-247 issue 1:2015
Prepared by: Qualcomm Atheros, Inc.
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SGS Taiwan Ltd.
Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan Township,
Taoyuan County, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant: Qualcomm Atheros, Inc.
1700 Technology Drive, San Jose, CA 95110

Product Name: Single Stream 802.11a/b/g/n/ac + BT4.1 M.2 Type Card

Brand Name: Qualcomm Atheros

Model No.: QCNFA435

Model Difference: N/A

FCC ID: PPD-QCNFA435

IC: 4104A-QCNFA435

File Number: E2/2016/70028

Date of test: Oct. 03, 2016 ~ Oct. 26, 2016

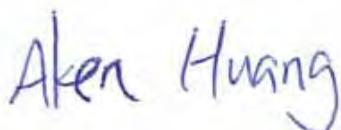
Date of EUT Received: Oct. 03, 2016

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:

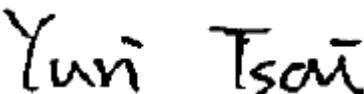


Date:

Oct. 26, 2016

Aken Huang / Engineer

Prepared By:

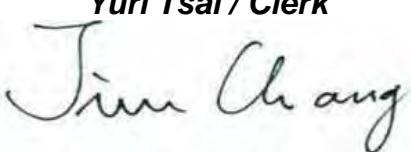


Date:

Oct. 26, 2016

Yuri Tsai / Clerk

**Approved
By:**



Date:

Oct. 26, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/A0005	Rev.00	Initial creation of document	Oct. 26, 2016

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1. GENERAL INFORMATION

1.1. Product Description

General Information of Host:

Product Name of Host:	Notebook Computer
Brand Name:	
FCC Marketing Name of Host:	SP513-51; SP113-31
IC Marketing Name of Host:	SP113-31
Model No. of Host:	N16W1
Model Difference:	N/A
Hardware Version:	version 1-1
Software Version:	Win 10
Model No. of BT/WLAN Module:	QCNFA435
Module FCC ID:	PPD-QCNFA435
Module IC:	4104A-QCNFA435
Scope:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the module in this specific host.
Class II & Class IV Permissive change:	Single Stream 802.11a/b/g/n/ac + BT4.1 M.2 Type Card (QCNFA435) INSTALLED IN Notebook Computer
Power Supply:	15.2Vdc from Rechargeable Li-ion Battery or 19V by AC/DC Power Adapter
	Battery: Model No.: AC14B8K; Supplier: LGC
	Adapter: Model No.: PA-1450-26, Supplier: LITE-ON

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) / Average Rated Power(EIRP)	Modulation Technology	Type of Emission
11a	5150~5250	4	Avg. Power: 14.55dBm EIRP: 14.86dBm	OFDM	21M8D1D
	5250~5350	4	Avg. Power: 14.84dBm EIRP: 14.79dBm		30M5D1D
	5470~5725	12	Avg. Power: 14.59dBm EIRP: 13.98dBm		30M1D1D
	5725~5850	5	Avg. Power: 14.76dBm EIRP: 14.8dBm		16M3D1D
11n / ac_20M	HT20 / VHT20 5150~5250	4	Avg. Power: 14.61dBm EIRP: 14.92dBm	OFDM	25M2D1D
	HT20 / VHT20 5250~5350	4	Avg. Power: 14.76dBm EIRP: 14.71dBm		31M8D1D
	HT20 / VHT20 5470~5725	12	Avg. Power: 14.89dBm EIRP: 14.28dBm		24M5D1D
	HT20 / VHT20 5725~5850	5	Avg. Power: 14.71dBm EIRP: 14.75dBm		17M2D1D
11n / ac_40M	HT40 / VHT40 5150-5250	2	Avg. Power: 13.77dBm EIRP: 14.08dBm	OFDM	38M0D1D
	HT40 / VHT40 5250-5350	2	Avg. Power: 13.98dBm EIRP: 13.93dBm		37M0D1D
	HT40 / VHT40 5470-5725	6	Avg. Power: 13.98dBm EIRP: 13.37dBm		37M8D1D
	HT40 / VHT40 5725-5850	2	Avg. Power: 13.88dBm EIRP: 13.92dBm		37M0D1D
11ac_80M	VHT80 5150~5250	1	Avg. Power: 11.63dBm EIRP: 11.94dBm	OFDM	75M4D1D
	VHT80 5250~5350	1	Avg. Power: 9.71dBm EIRP: 9.66dBm		75M4D1D
	VHT80 5470~5725	3	Avg. Power: 13.79dBm EIRP: 13.18dBm		75M4D1D
	VHT80 5725-5850	1	Avg. Power: 11.91dBm EIRP: 11.95dBm		76M4D1D

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Antenna Designation	PIFA Antenna, Part No.: 81EAAL15.GFN, Gain: 0.31dBi (5150MHz-5250MHz) (Main) Gain: -0.05dBi (5250MHz-5350MHz) (Main) Gain: -0.61dBi (5470MHz-5725MHz) (Main) Gain: 0.04dBi (5725MHz-5850MHz) (Main) PIFA Antenna, Part No.: 81EAAL15.GFP, Gain: -0.50dBi (5150MHz-5250MHz) (Aux) Gain: 0.22dBi (5250MHz-5350MHz) (Aux) Gain: 0.70dBi (5470MHz-5725MHz) (Aux) Gain: -1.07dBi (5725MHz-5850MHz) (Aux)
Modulation type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n/ac_20MHz: 6.5 – 65Mbps 802.11 n/ac_40MHz: 13.5 – 135Mbps 802.11 ac_80MHz: 29.3 – 292.5Mbps

1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Notebook Computer supporting, Bluetooth and Wi-Fi 802.11 a/b/g/n/ac features, and below is details of information.

Product Feature	
Product Name of Host:	Notebook Computer
Brand Name:	
FCC Marketing Name of Host:	SP513-51; SP113-31
IC Marketing Name of Host:	SP113-31
Model No. of Host:	N16W1
Model Difference:	N/A
Module FCC ID:	PPD-QCNFA435
Module IC :	4104A-QCNFA435
Bluetooth Version	V4.1 dual mode
Wi-Fi Specification	802.11a/b/g/n/ac

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.3. Related Submittal(s) / Grant (s)

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

Canada RSS-247 issue 1 May 2015

RSS-Gen Issue 4 Nov. 2014

ANSI C63.10:2013

Note:

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

1.4. Test Facility

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

FCC Registration Numbers are: 735305

Canada Registration Number: 4620A-5

1.5. Special Accessories

There are no special accessories used while test was conducted.

1.6. 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.

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.

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2.5. Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

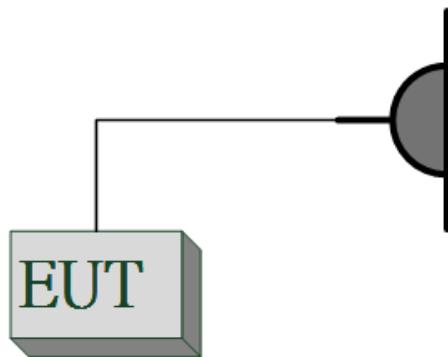


Fig. 2-2 Conducted (Antenna Port) Configuration

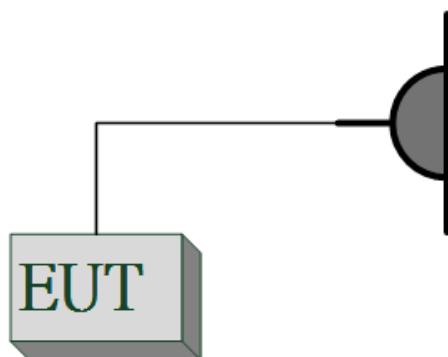


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

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3. SUMMARY OF TEST RESULT

FCC / IC Rules	Description Of Test	Result
§15.407(a) (1) (2) RSS-247 §6.2.1~ 4 (1)	The Maximum Output Power Measurement	Compliant
§15.407(b) (1) (2) (3)(6) (7) RSS-247 §6.2.1~ 4 (2)	Undesirable Emission – Radiated Measurement	Compliant
§15.203 RSS- Gen §6.7 RSS- Gen §8.3	Antenna Requirement	Compliant

4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5250 MHz ~5350 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
58	5290 MHz

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Operated band in 5470 MHz ~5725 MHz:

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

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

5 channels are provided for 802.11n_HT40, 802.11ac_VHT40

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

3 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
106	5530 MHz
122	5610 MHz
138	5690 MHz

Operated band in 5725 MHz ~5850 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
155	5775 MHz

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RADIATED EMISSION TEST:

RADIATED EMISSION TEST (ABOVE 1 GHz)

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MAIN
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	MAIN
802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_VHT40	5510~5670	102 to 134	102,110,134	OFDM	MCS0	MAIN
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN
802.11ac_VHT80	5755	155	155	OFDM	MCS0	MAIN

Note:

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

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MAIN
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	MAIN
802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_VHT40	5510~5670	102 to 134	102,110,134	OFDM	MCS0	MAIN
802.11ac_VHT80	5530~5690	106 to 138	106,122, 138	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN
802.11ac_VHT80	5755	155	155	OFDM	MCS0	MAIN

Remark: The device will not operate in 5600~5650MHz band for IC.

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26 dB and 99% Emission Bandwidth	+/- 123.36 Hz
The Maximum Output Power Measurement	+/- 1.42 dB
Peak Power Spectral Density Measurement	+/- 1.55 dB
Peak Excursion Measurement	+/- 1.55 dB
Undesirable Emission – Conducted Measurement	+/- 1.55 dB
Transmission in case of Absence of Information	+/- 1.55 dB
Frequency Stability	+/- 123.36 Hz
TPC and DFS Measurement	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC=+/- 0.2%

Radiated Spurious Emission:

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

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

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

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6. DUTY CYCLE OF 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	93.24	0.30
802.11ac_VHT20	94.76	0.23
802.11ac_VHT40	89.97	0.46
802.11ac_VHT80	81.23	0.90

$$\text{Duty Cycle Factor: } 10 \log(1/0.9324) = 0.3$$

$$\text{Duty Cycle Factor: } 10 \log(1/0.9476) = 0.23$$

$$\text{Duty Cycle Factor: } 10 \log(1/0.8997) = 0.46$$

$$\text{Duty Cycle Factor: } 10 \log(1/0.8123) = 0.9$$

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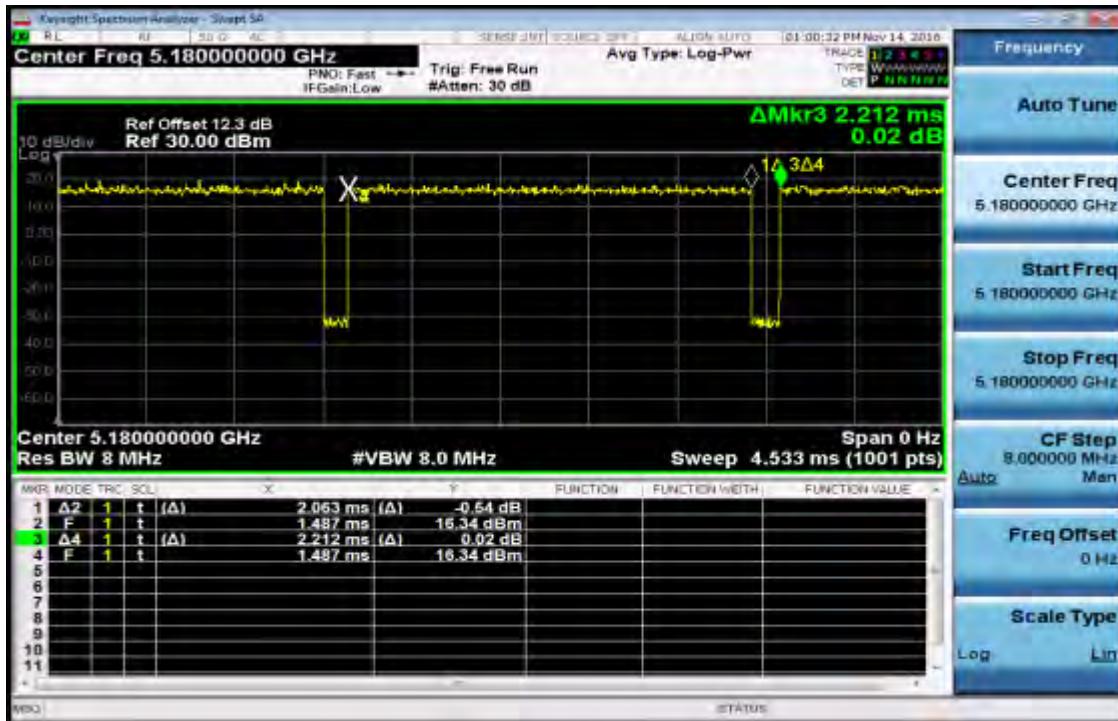
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6.1 Duty Cycle Test Signal Measurement Result

802.11a



802.11 ac_VHT20



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802.11 ac_VHT40



802.11 ac_VHT80



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7. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

7.2 Standard Applicable:

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)

According to RSS-247 §6.2.1~4 (1)

OPERATION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or $10 + 10 \log_{10} B$
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

Note: B is the 99% emission bandwidth in MHz.

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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7.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
3. Set the offset $10^{\ast}\log(1/x)$, $n_{HT20}=0.10$, $n_{HT40}=0.12$
4. Record the max. reading.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
6. Employing step 1 to 4 obtaining per-chain basis in MIMO operation, and sum the power in linear to result the output of MIMO operation at frequency of interest (, where MIMO is applicable).

Note: For EIRP/ERP measurement complying with RSS-247 §6.2.1~ 4 (1), the formula as deduced in 1.3.2 of KDB 412172 D01 is used to calculate. $ERP/EIRP = Pt + Gt - Lc$, where Pt = transmitter output power measured directly at antenna port, expressing in dBm, and Gt = gain of the transmitting antenna in dBi that can be referred in antenna spec provided by the manufacturer in section 1.1, Lc = signal attenuation in the cable between the transmitting port and antenna.

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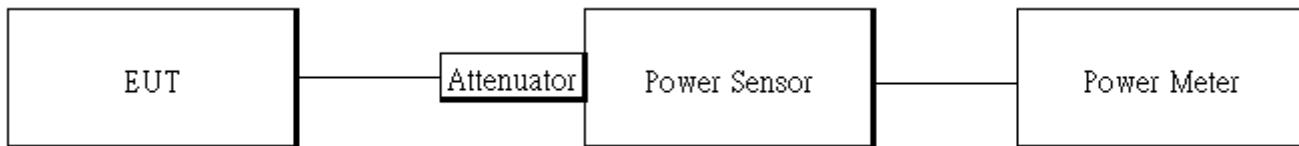
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7.4 Measurement Equipment Used:

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

7.5 Test Set-up:



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7.6 Measurement Result

802.11a

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.28	21.281	23.98	PASS
44	5220	14.55	28.510	23.98	PASS
48	5240	14.55	28.510	23.98	PASS
52	5260	14.69	29.444	23.98 or $11+10\log(B) = 25.84$	PASS
60	5300	14.84	30.479	23.98 or $11+10\log(B) = 25.62$	PASS
64	5320	12.91	19.543	23.98 or $11+10\log(B) = 23.34$	PASS
100	5500	12.62	18.281	23.98 or $11+10\log(B) = 23.15$	PASS
116	5580	14.59	28.774	23.98 or $11+10\log(B) = 25.78$	PASS
140	5700	12.11	16.255	23.98 or $11+10\log(B) = 23.12$	PASS
149	5745	12.84	19.231	30	PASS
157	5785	14.66	29.242	30	PASS
165	5825	14.76	29.923	30	PASS

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802.11ac_VHT20

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.47	22.233	23.98	PASS
44	5220	14.59	28.774	23.98	PASS
48	5240	14.61	28.907	23.98	PASS
52	5260	14.76	29.923	23.98 or $11+10\log(B) = 26.02$	PASS
60	5300	13.96	24.889	23.98 or $11+10\log(B) = 25.15$	PASS
64	5320	12.97	19.815	23.98 or $11+10\log(B) = 23.46$	PASS
100	5500	12.93	19.634	23.98 or $11+10\log(B) = 23.43$	PASS
116	5580	14.89	30.832	23.98 or $11+10\log(B) = 24.88$	PASS
140	5700	12.99	19.907	23.98 or $11+10\log(B) = 23.43$	PASS
149	5745	12.76	18.880	30	PASS
157	5785	14.71	29.580	30	PASS
165	5825	13.68	23.335	30	PASS

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802.11ac_VHT40

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	9.91	9.795	23.98	PASS
46	5230	13.77	23.823	23.98	PASS
54	5270	13.98	25.003	23.98 or $11+10\log(B) = 26.68$	PASS
62	5310	10.71	11.776	23.98 or $11+10\log(B) = 26.58$	PASS
102	5510	10.99	12.560	23.98 or $11+10\log(B) = 26.56$	PASS
110	5550	13.98	25.003	23.98 or $11+10\log(B) = 26.77$	PASS
134	5670	13.41	21.928	23.98 or $11+10\log(B) = 26.58$	PASS
151	5755	12.89	19.454	30	PASS
159	5795	13.88	24.434	30	PASS

802.11ac_VHT80

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	11.63	14.555	23.98	PASS
58	5290	9.71	9.354	23.98 or $11+10\log(B) = 29.77$	PASS
106	5530	9.82	9.594	23.98 or $11+10\log(B) = 29.77$	PASS
122	5610	13.79	23.933	23.98 or $11+10\log(B) = 29.65$	PASS
138	5690	13.74	23.659	23.98 or $11+10\log(B) = 29.65$	PASS
155	5775	11.91	15.524	30	PASS

*** Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.**

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ERP/EIRP Measurement:

802.11a

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.28	21.281	0.31	13.59	23.01 or $10+10\log(B) = 22.15$	PASS
44	5220	14.55	28.510		14.86	23.01 or $10+10\log(B) = 22.49$	PASS
48	5240	14.55	28.510		14.86	23.01 or $10+10\log(B) = 23.39$	PASS
52	5260	14.69	29.444	-0.05	14.64	30 or $17+10\log(B) = 31.84$	PASS
60	5300	14.84	30.479		14.79	30 or $17+10\log(B) = 31.62$	PASS
64	5320	12.91	19.543		12.86	30 or $17+10\log(B) = 29.34$	PASS
100	5500	12.62	18.281	-0.61	12.01	30 or $17+10\log(B) = 29.15$	PASS
116	5580	14.59	28.774		13.98	30 or $17+10\log(B) = 31.78$	PASS
140	5700	12.11	16.255		11.50	30 or $17+10\log(B) = 29.12$	PASS
149	5745	12.84	19.231	0.04	12.88	30	PASS
157	5785	14.66	29.242		14.70	30	PASS
165	5825	14.76	29.923		14.80	30	PASS

* Note: EIRP = Average Power + Gain

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802.11ac_VHT20

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.47	22.233	0.31	13.78	23.01 or $10+10\log(B) = 22.40$	PASS
44	5220	14.59	28.774		14.90	23.01 or $10+10\log(B) = 24.01$	PASS
48	5240	14.61	28.907		14.92	23.01 or $10+10\log(B) = 23.93$	PASS
52	5260	14.76	29.923	-0.05	14.71	30 or $17+10\log(B) = 32.02$	PASS
60	5300	13.96	24.889		13.91	30 or $17+10\log(B) = 31.15$	PASS
64	5320	12.97	19.815		12.92	30 or $17+10\log(B) = 29.46$	PASS
100	5500	12.93	19.634	-0.61	12.32	30 or $17+10\log(B) = 29.43$	PASS
116	5580	14.89	30.832		14.28	30 or $17+10\log(B) = 30.88$	PASS
140	5700	12.99	19.907		12.38	30 or $17+10\log(B) = 29.43$	PASS
149	5745	12.76	18.880	0.04	12.80	30	PASS
157	5785	14.71	29.580		14.75	30	PASS
165	5825	13.68	23.335		13.72	30	PASS

802.11ac_VHT40

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
38	5190	9.91	9.795	0.31	10.22	23.01 or $10+10\log(B) = 25.58$	PASS
46	5230	13.77	23.823		14.08	23.01 or $10+10\log(B) = 25.79$	PASS
54	5270	13.98	25.003	-0.05	13.93	30 or $17+10\log(B) = 32.68$	PASS
62	5310	10.71	11.776		10.66	30 or $17+10\log(B) = 32.58$	PASS
102	5510	10.99	12.560	-0.61	10.38	30 or $17+10\log(B) = 32.56$	PASS
110	5550	13.98	25.003		13.37	30 or $17+10\log(B) = 32.77$	PASS
134	5670	13.41	21.928		12.80	30 or $17+10\log(B) = 32.58$	PASS
151	5755	12.89	19.454	0.04	12.93	30	PASS
159	5795	13.88	24.434		13.92	30	PASS

* Note: EIRP = Average Power + Gain

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802.11ac_VHT80

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
42	5210	11.63	14.555	0.31	11.94	23.01 or $10+10\log(B) = 28.77$	PASS
58	5290	9.71	9.354	-0.05	9.66	30 or $17+10\log(B) = 35.77$	PASS
106	5530	9.82	9.594	-0.61	9.21	30 or $17+10\log(B) = 35.77$	PASS
122	5610	13.79	23.933		13.18	30 or $17+10\log(B) = 35.77$	PASS
138	5690	13.74	23.659		13.13	30 or $17+10\log(B) = 35.65$	PASS
155	5775	11.91	15.524	0.04	11.95	30	PASS

* **Note:** EIRP = Average Power + Gain

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8. UNDESIRABLE EMISSION - RADIATED MEASUREMENT

8.1 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 5.25-5.35 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.
3. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
4. For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

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APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01	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)	
15.407(b)(2)	RSS-247 §6.2.2 (2)	PK: -27 (dBm/MHz)
15.407(b)(3)	RSS-247 §6.2.3 (2)	PK: 68.3 (dB μ V/m)
15.407(b)(4)	RSS-247 §6.2.4 (4)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(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)

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8.2 Measurement Equipment Used:

SGS 966 Chamber No.C					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESU 40	100363	04/12/2016	04/11/2017
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2015	12/22/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2015	07/23/2016
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

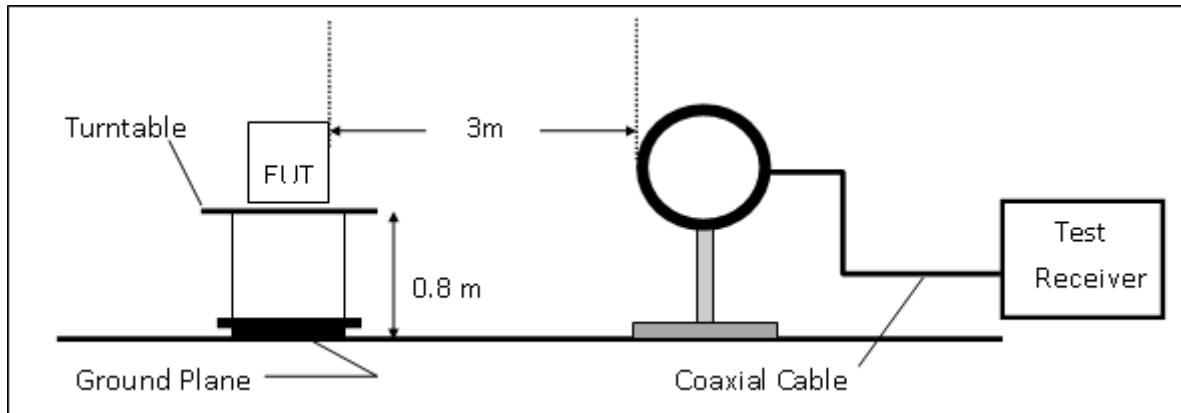
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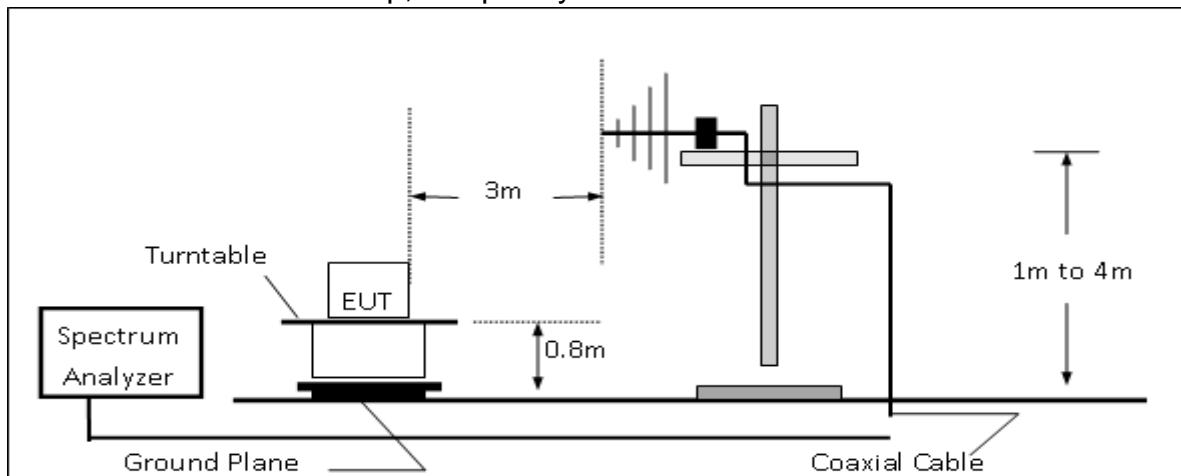
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8.3 Test SET-UP

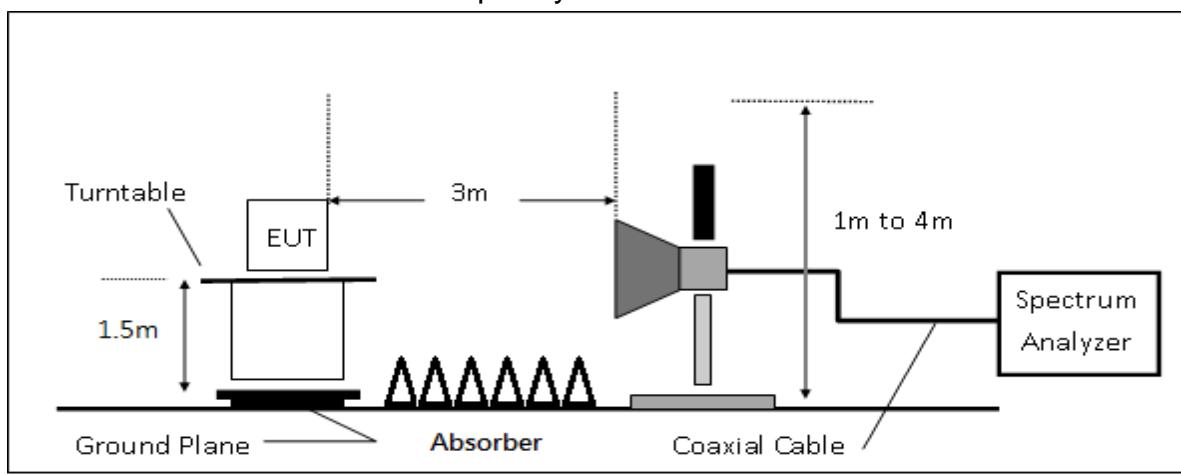
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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8.4 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 v01.
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.

8.5 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.

8.6 Test Results of Radiated Spurious Emissions from 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.

8.7 Measurement Result

Refer to attach tabular data sheets.

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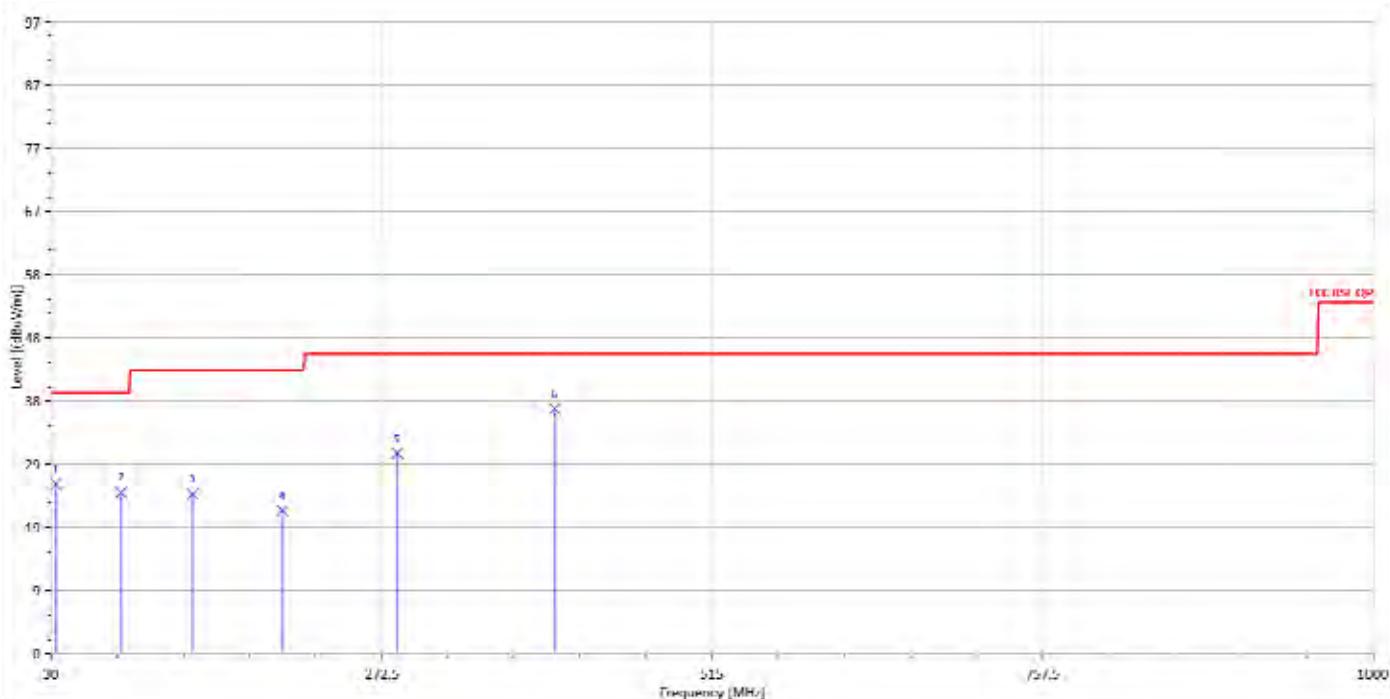
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Radiated Spurious Emission Measurement Result**Below 1GHz Worst-Case Data:****802.11a, 5150~5250 MHz**

Operation Mode : 802.11a Test Date : 2016/10/13
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



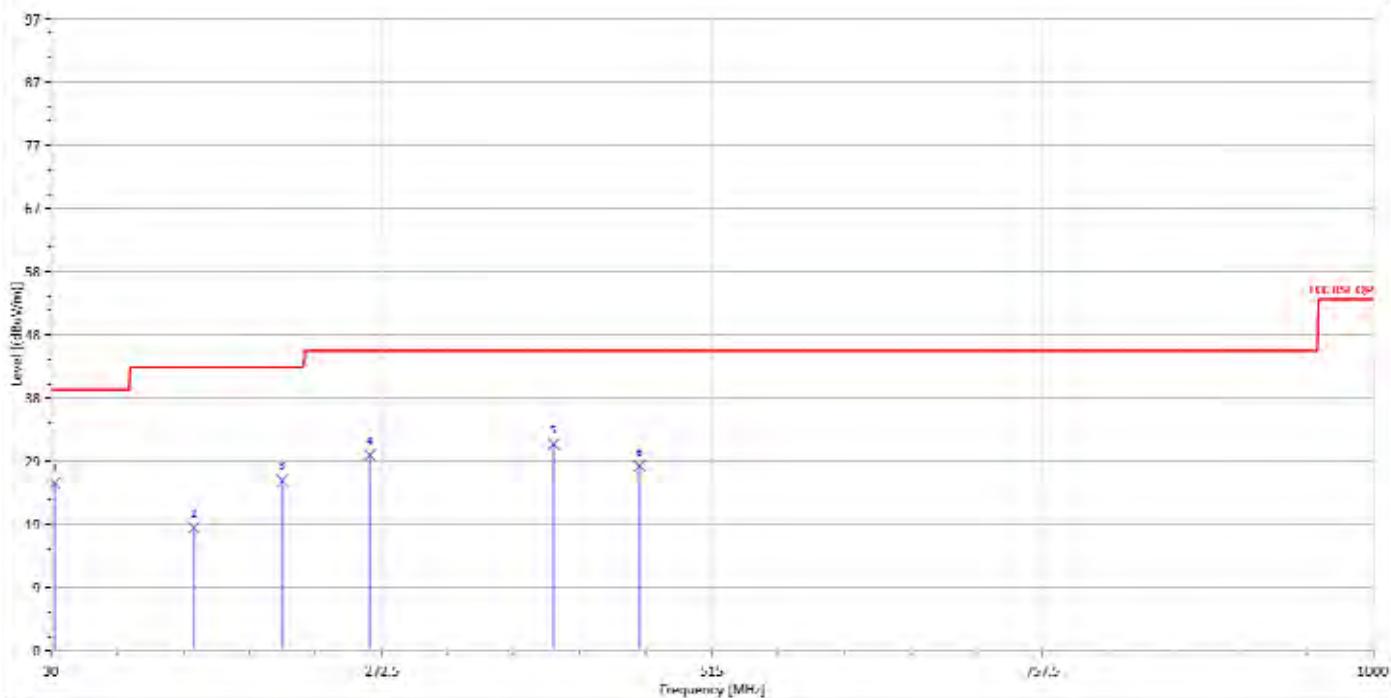
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
33.88	S	Peak	35.26	-9.27	25.99	40	-14.01
81.41	S	Peak	45.52	-20.74	24.78	40	-15.22
133.79	S	Peak	40.34	-15.82	24.52	43.5	-18.98
199.75	S	Peak	39.50	-17.51	21.99	43.5	-21.51
284.14	S	Peak	44.19	-13.47	30.72	46	-15.28
399.57	S	Peak	47.38	-9.73	37.65	46	-8.35

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
32.91	S	Peak	34.46	-8.75	25.71	40	-14.29
134.76	S	Peak	34.63	-15.77	18.85	43.5	-24.65
199.75	S	Peak	43.61	-17.51	26.09	43.5	-17.41
263.77	S	Peak	43.77	-13.80	29.97	46	-16.03
398.60	S	Peak	41.43	-9.75	31.68	46	-14.32
461.65	S	Peak	36.43	-8.16	28.27	46	-17.73

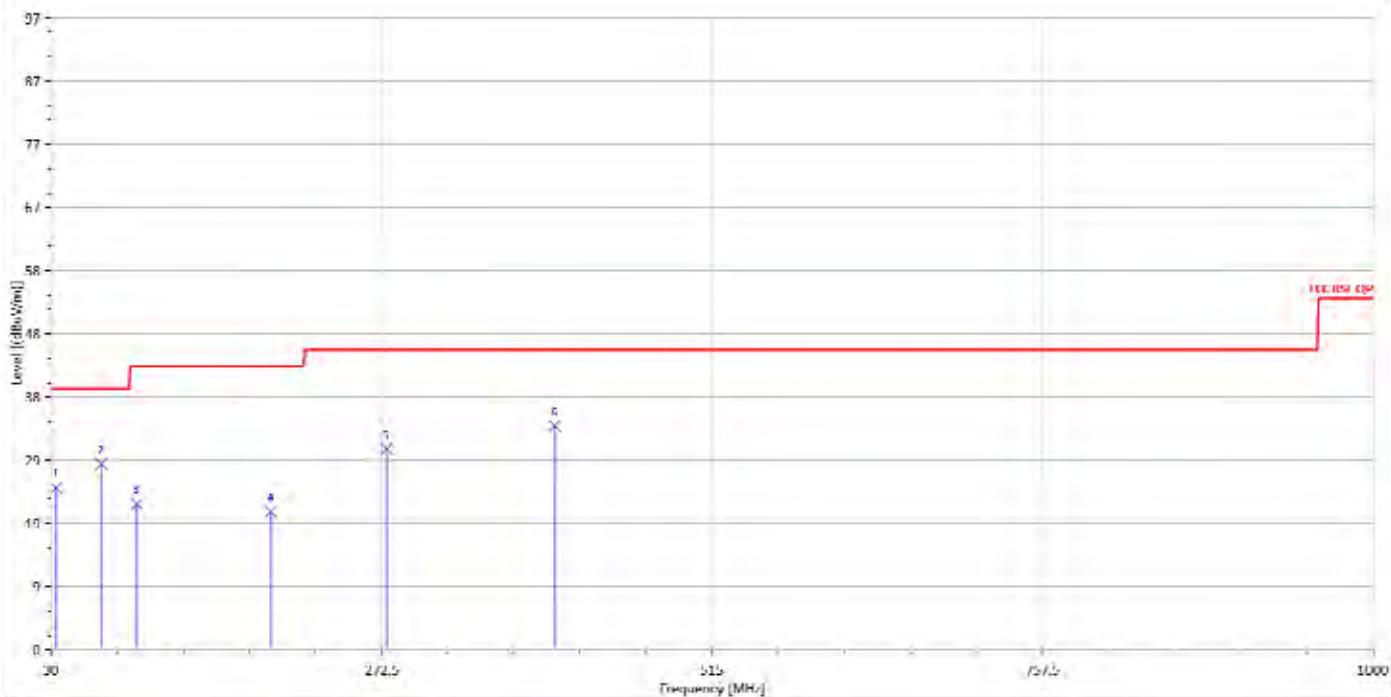
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802.11a, 5250~5350 MHz

Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



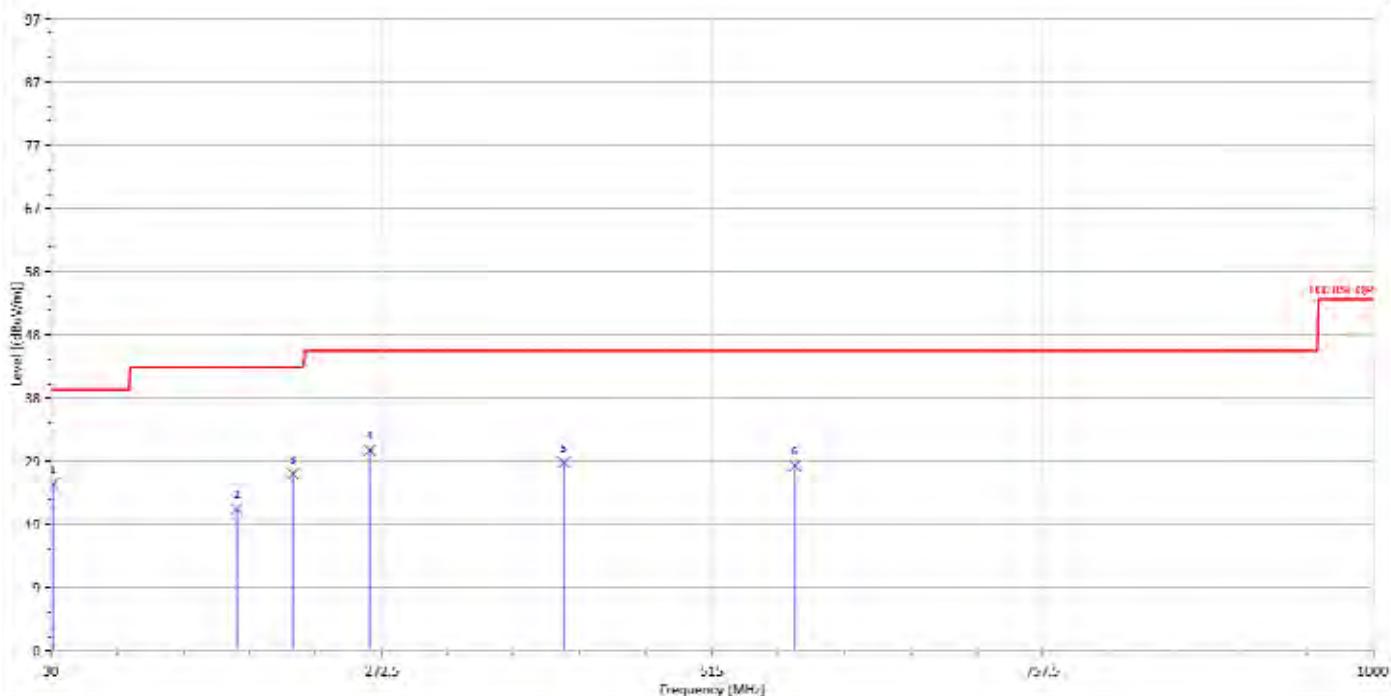
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
						Limit @3m dBμV/m	Margin dB
33.88	S	Peak	34.15	-9.27	24.88	40	-15.12
66.86	S	Peak	50.61	-22.18	28.43	40	-11.57
93.05	S	Peak	41.34	-18.95	22.38	43.5	-21.12
191.02	S	Peak	39.40	-18.21	21.19	43.5	-22.31
276.38	S	Peak	44.51	-13.74	30.77	46	-15.23
399.57	S	Peak	44.09	-9.73	34.35	46	-11.65

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
31.94	S	Peak	33.83	-8.22	25.61	40	-14.39
166.77	S	Peak	39.72	-17.95	21.77	43.5	-21.73
207.51	S	Peak	44.26	-17.21	27.05	43.5	-16.45
263.77	S	Peak	44.50	-13.80	30.70	46	-15.30
406.36	S	Peak	38.17	-9.33	28.84	46	-17.16
576.11	S	Peak	34.54	-6.21	28.33	46	-17.67

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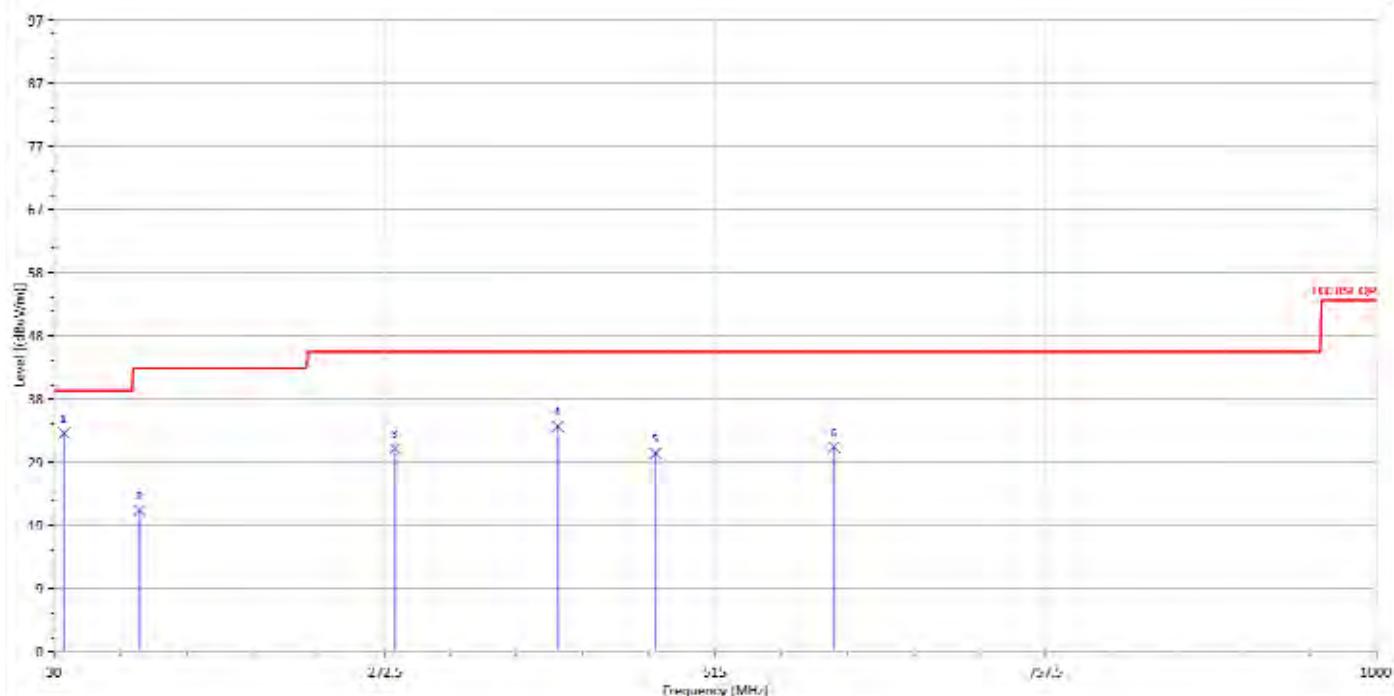
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802.11a, 5470~5725 MHz

Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



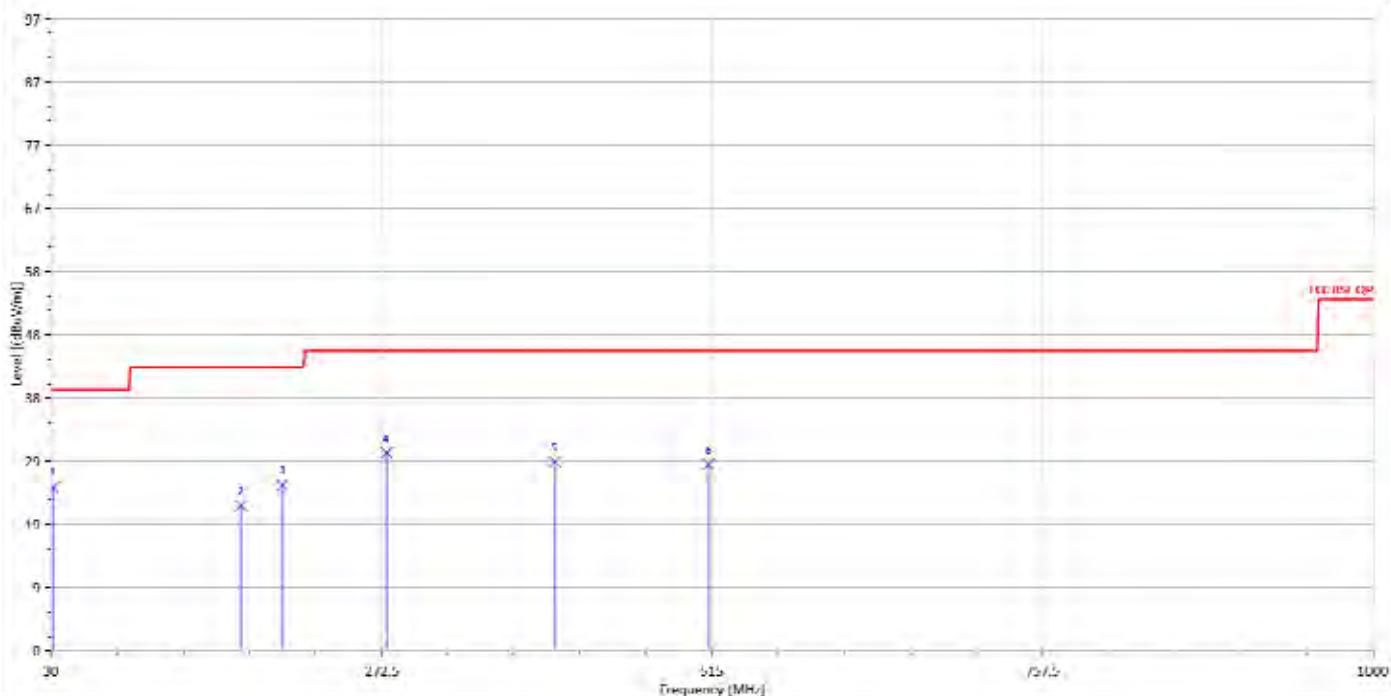
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
						Factor dB	Actual FS dB μ V/m
37.76	S	Peak	45.04	-11.49	33.55	40	-6.45
93.05	S	Peak	40.70	-18.95	21.74	43.5	-21.76
280.26	S	Peak	44.74	-13.61	31.13	46	-14.87
399.57	S	Peak	44.33	-9.73	34.59	46	-11.41
471.35	S	Peak	38.18	-7.81	30.38	46	-15.62
602.30	S	Peak	37.75	-6.38	31.37	46	-14.63

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
31.94	S	Peak	33.34	-8.22	25.12	40	-14.88
169.68	S	Peak	40.66	-18.34	22.32	43.5	-21.18
199.75	S	Peak	42.94	-17.51	25.43	43.5	-18.07
276.38	S	Peak	44.08	-13.74	30.34	46	-15.66
399.57	S	Peak	38.67	-9.73	28.93	46	-17.07
513.06	S	Peak	36.20	-7.67	28.53	46	-17.47

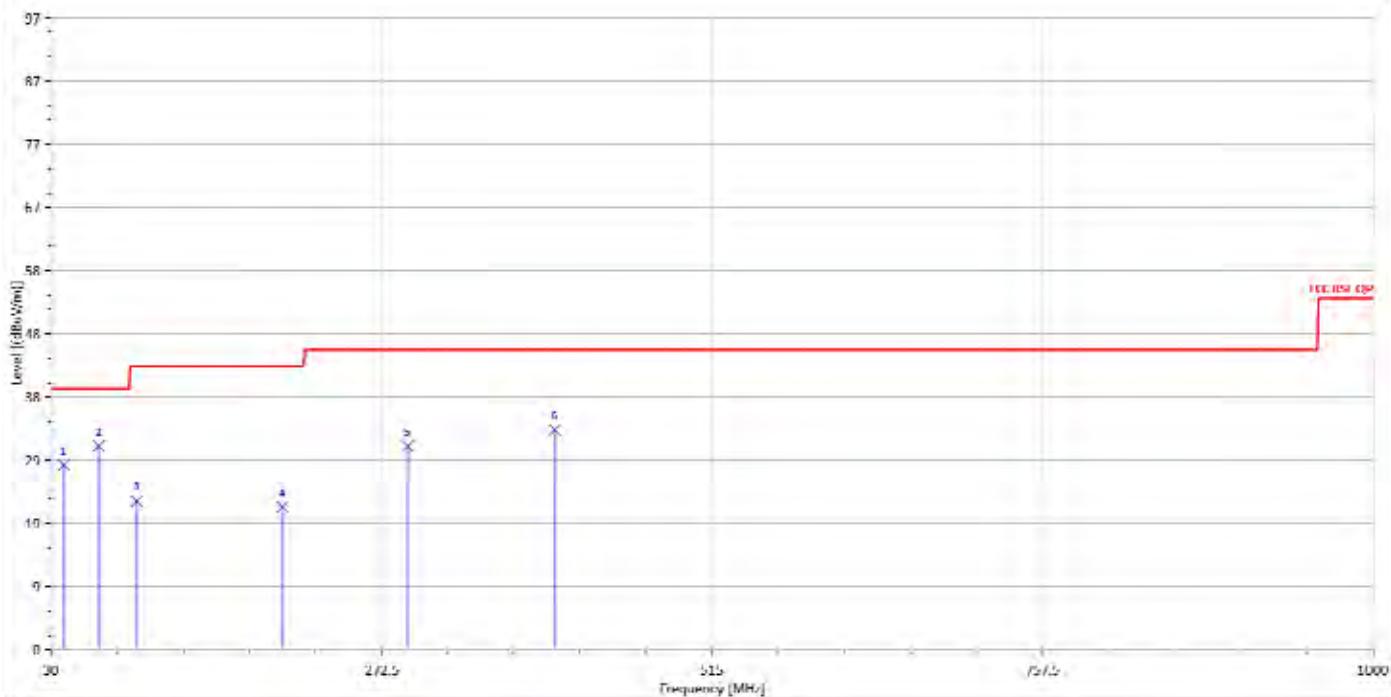
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802.11a, 5725~5850 MHz

Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



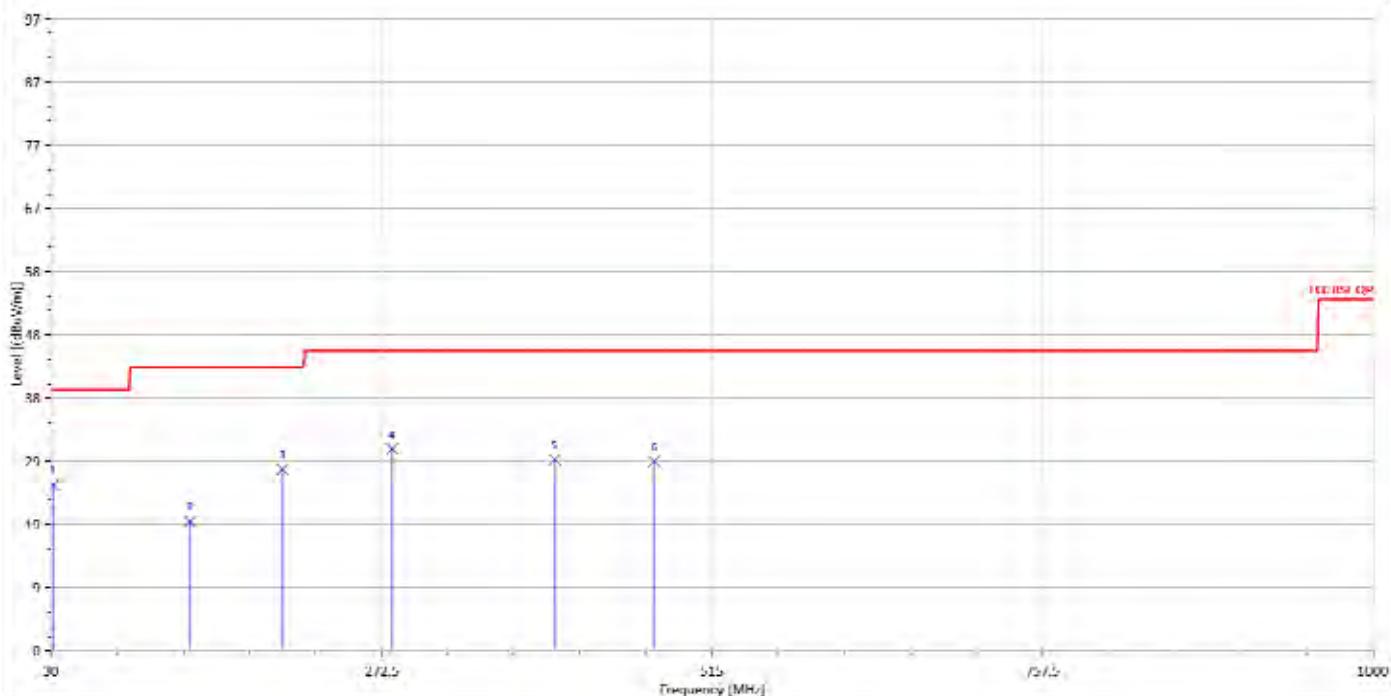
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
						Limit @3m dB μ V/m	Margin dB
39.70	S	Peak	40.88	-12.63	28.25	40	-11.75
64.92	S	Peak	53.63	-22.41	31.22	40	-8.78
93.05	S	Peak	41.77	-18.95	22.82	43.5	-20.68
199.75	S	Peak	39.42	-17.51	21.91	43.5	-21.59
291.90	S	Peak	44.44	-13.26	31.19	46	-14.81
399.57	S	Peak	43.45	-9.73	33.71	46	-12.29

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
31.94	S	Peak	33.68	-8.22	25.46	40	-14.54
131.85	S	Peak	35.54	-15.71	19.83	43.5	-23.67
199.75	S	Peak	45.27	-17.51	27.76	43.5	-15.74
280.26	S	Peak	44.55	-13.61	30.94	46	-15.06
399.57	S	Peak	39.01	-9.73	29.28	46	-16.72
472.32	S	Peak	36.86	-7.84	29.02	46	-16.98

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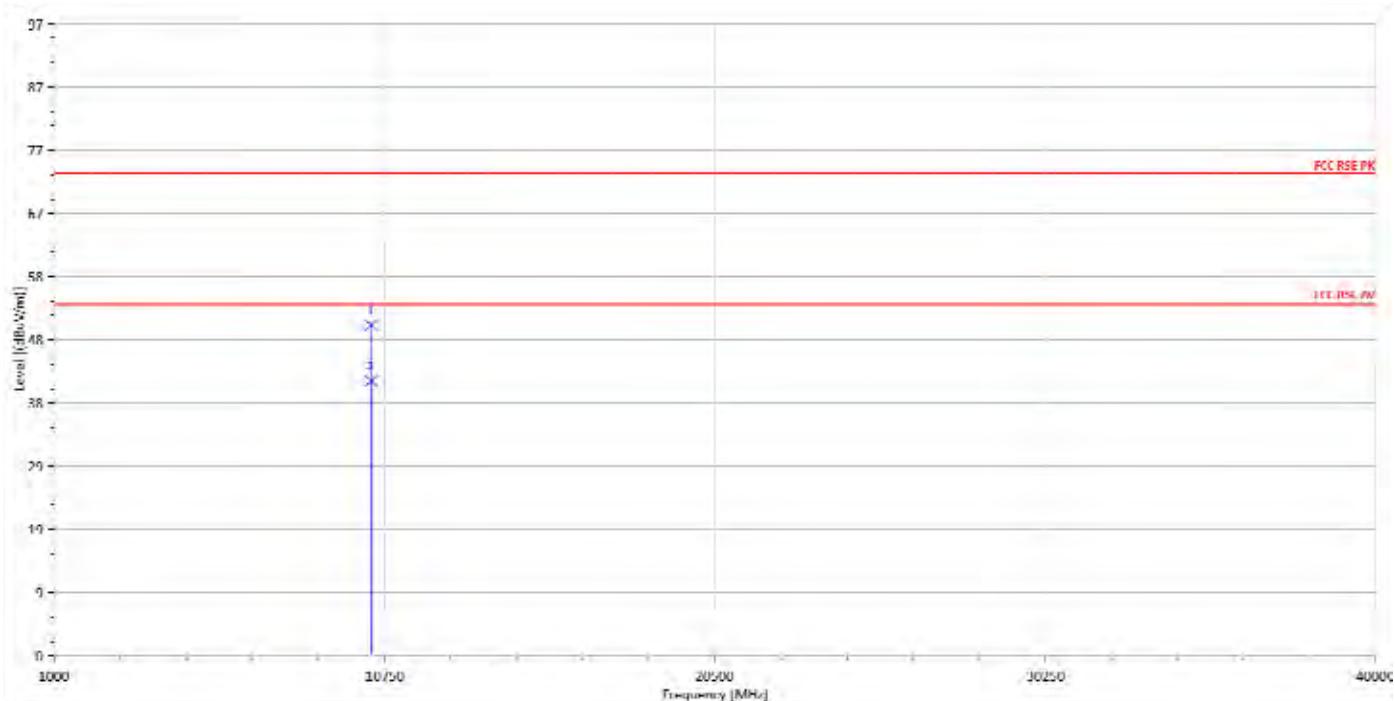
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Radiated Spurious Emission Measurement Result

Above 1GHz Worst-Case Data:

802.11a, 5150~5250 MHz

Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



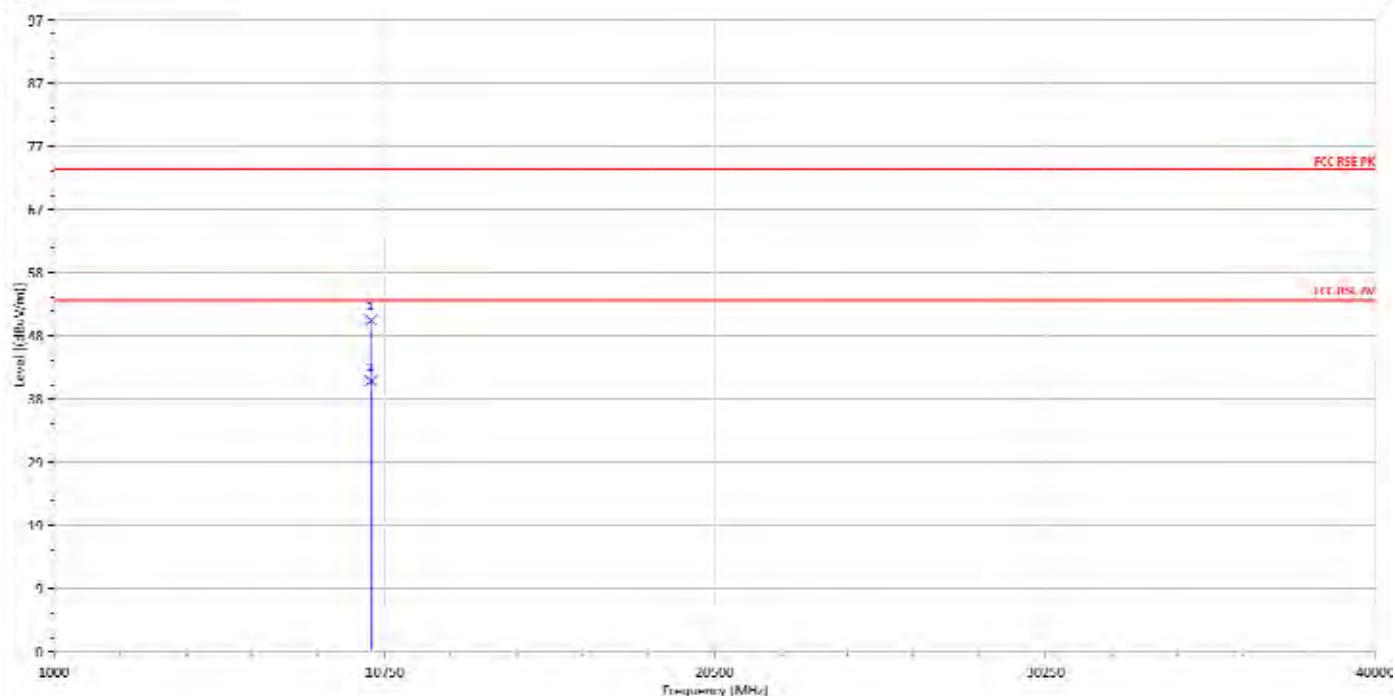
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	H	Peak	30.61	20.18	50.79	74	-23.21
10360.00	H	Average	21.94	20.18	42.12	54	-11.88

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



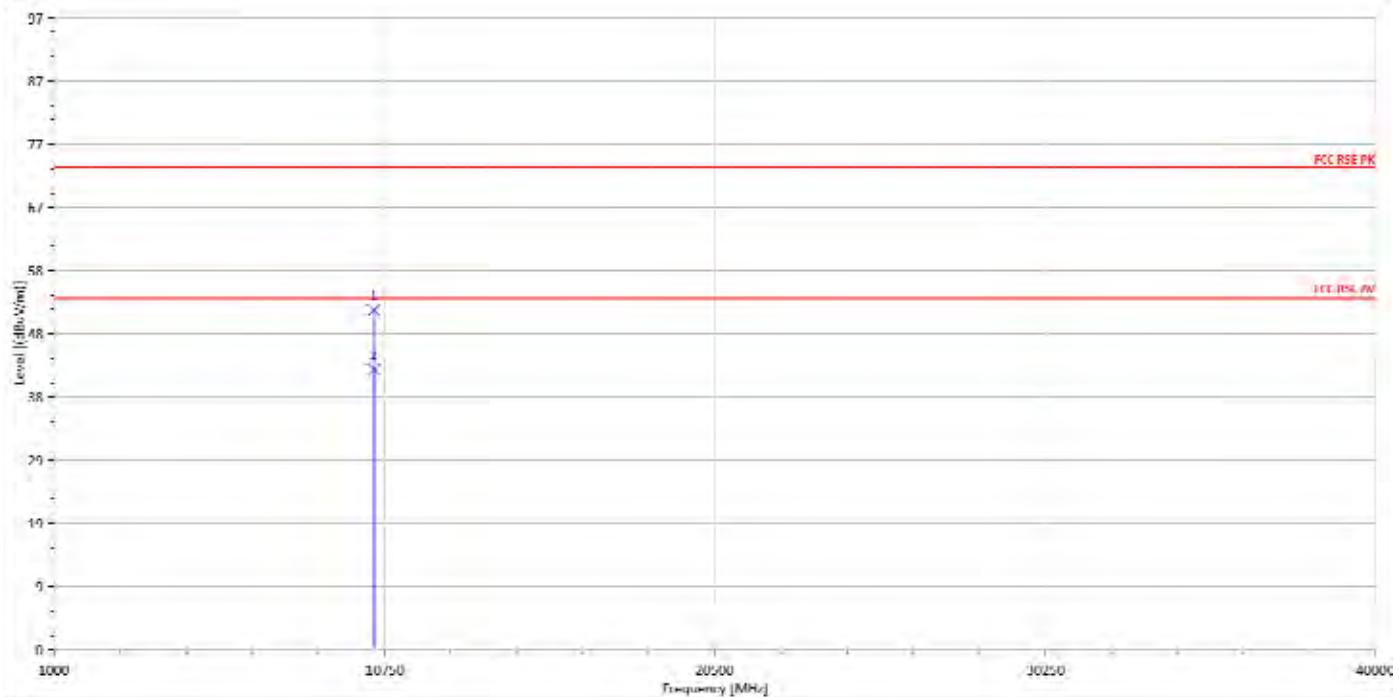
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	30.73	20.18	50.91	74	-23.09
10360.00	H	Average	21.32	20.18	41.50	54	-12.50

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



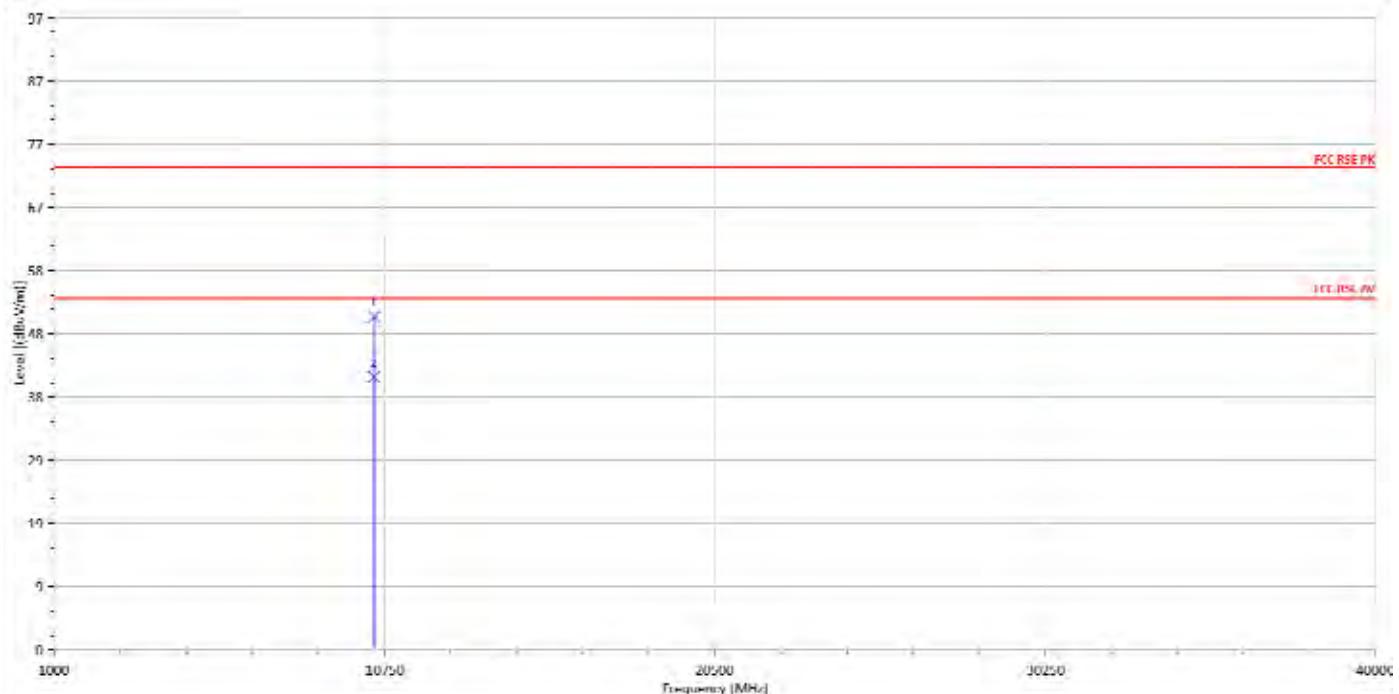
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	H	Peak	31.88	20.29	52.17	74	-21.83
10440.00	H	Average	22.63	20.29	42.92	54	-11.08

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



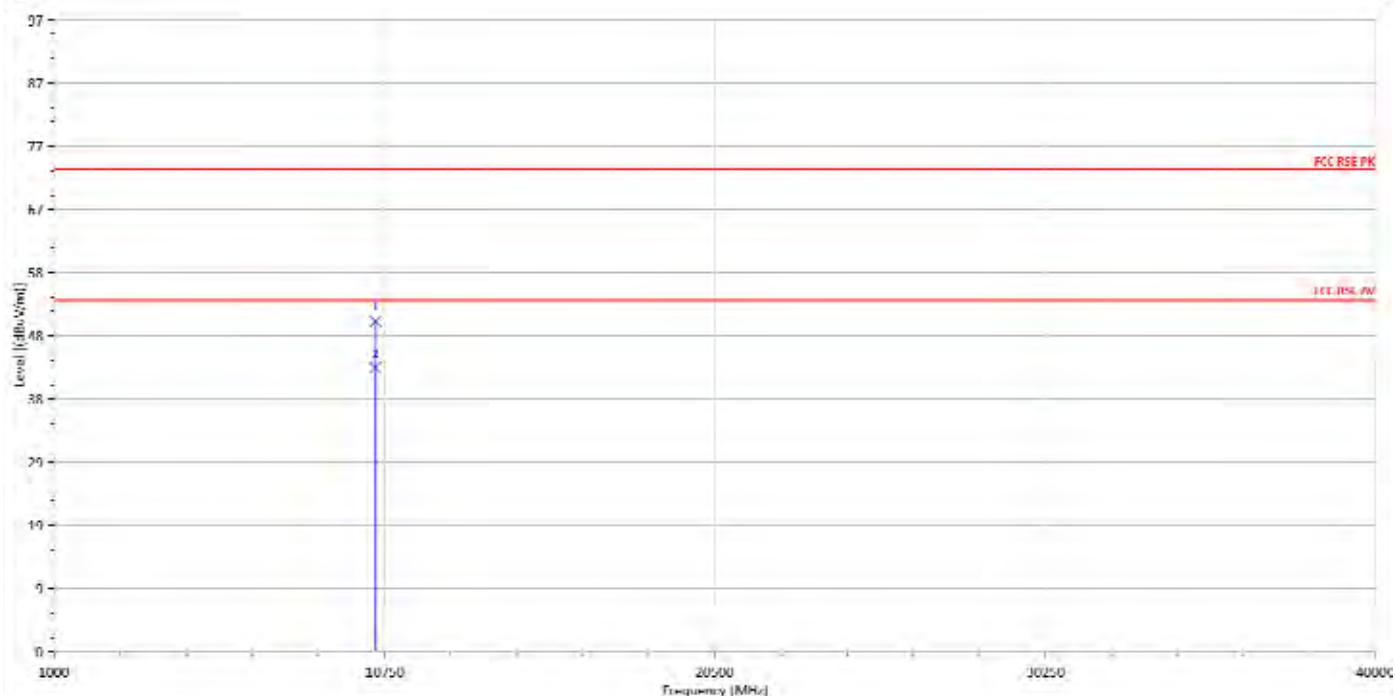
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	H	Peak	30.86	20.29	51.15	74	-22.85
10440.00	H	Average	21.52	20.29	41.81	54	-12.19

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7 deg_C/57 RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



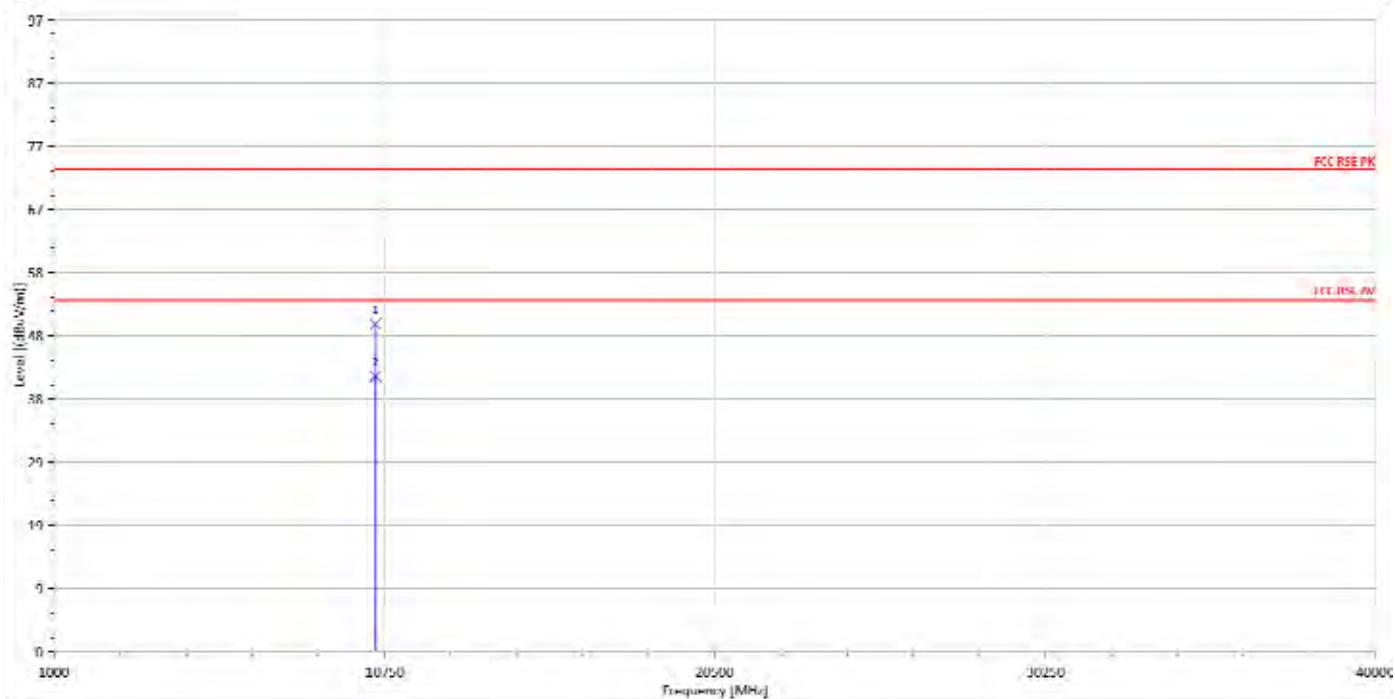
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	H	Peak	30.05	20.68	50.73	74	-23.27
10480.00	H	Average	22.89	20.68	43.57	54	-10.43

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7 deg_C/57 RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	H	Peak	29.64	20.68	50.32	74	-23.68
10480.00	H	Average	21.52	20.68	42.20	54	-11.80

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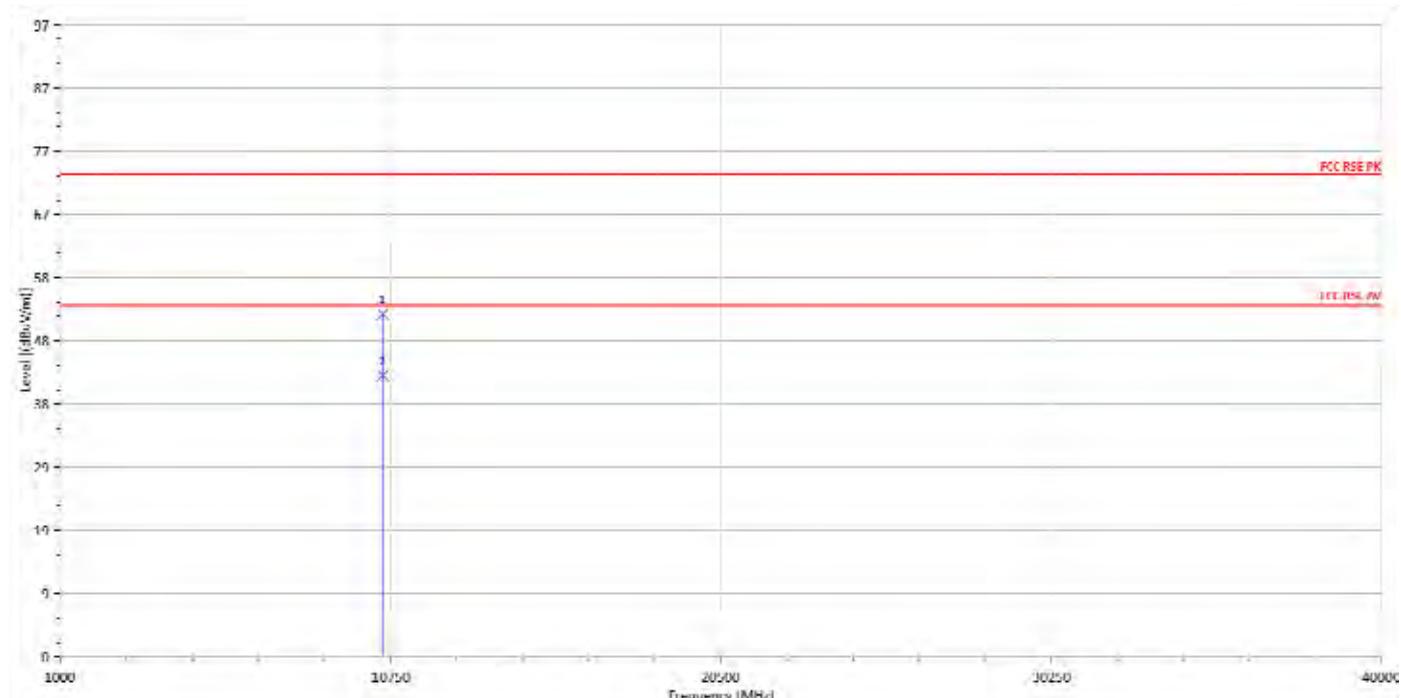
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Radiated Spurious Emission Measurement Result

802.11a, 5250MHz-5350MHz

Operation Mode :	802.11a	Test Date :	2016/10/13
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10520.00	H	Peak	32.53	20.10	52.63	74	-21.37
10520.00	H	Average	23.02	20.10	43.12	54	-10.88

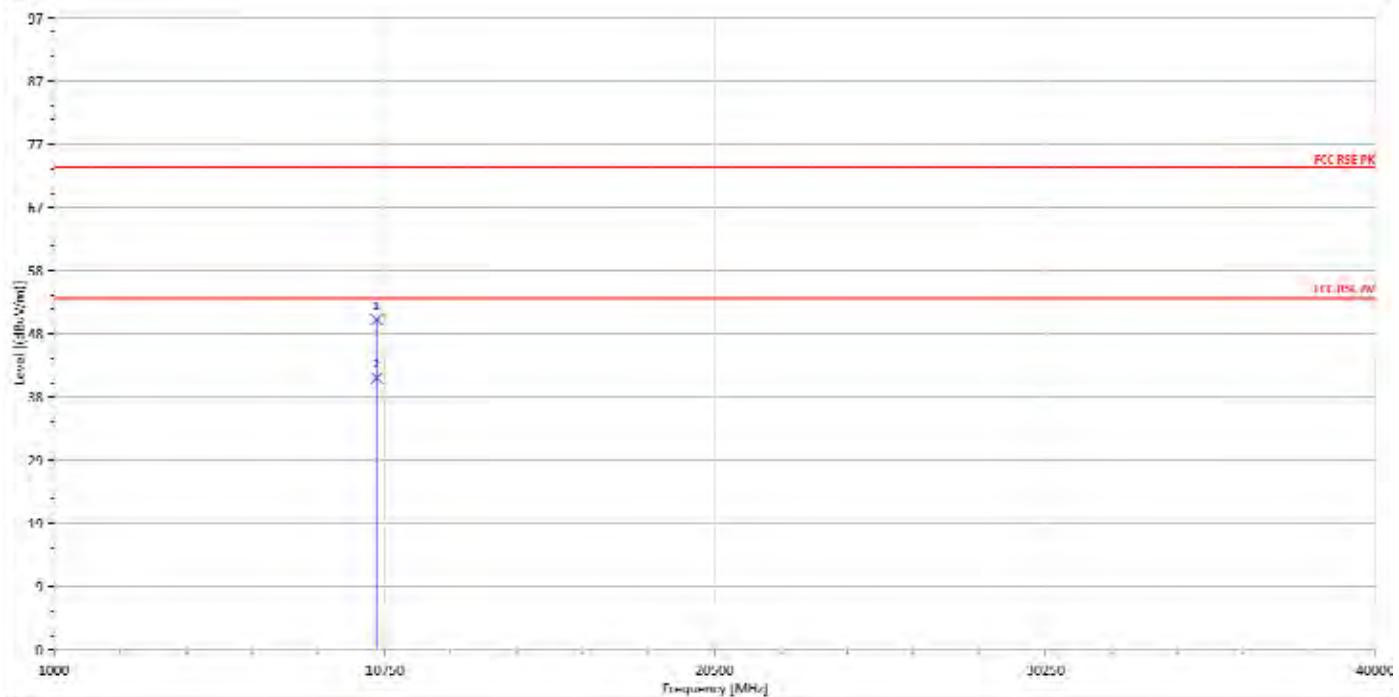
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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



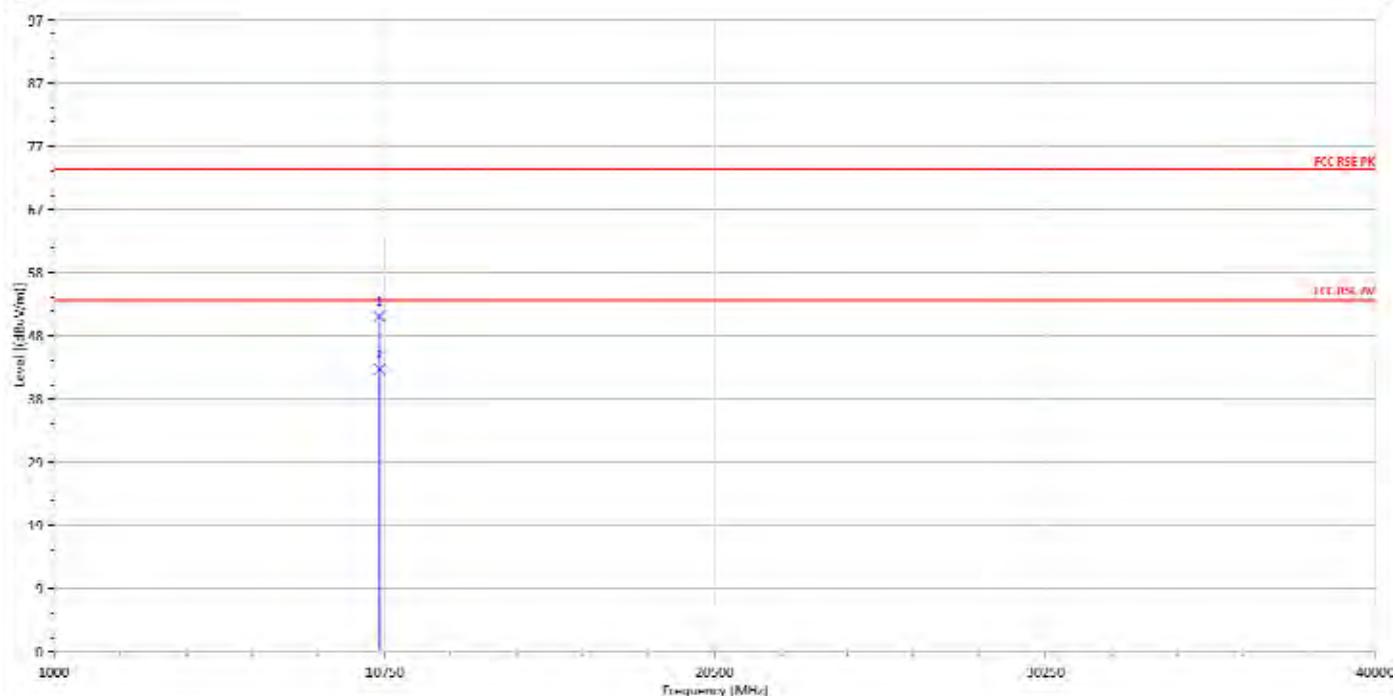
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	H	Peak	30.61	20.10	50.71	74	-23.29
10520.00	H	Average	21.53	20.10	41.63	54	-12.37

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Operation Mode : 802.11a Test Date : 2016/10/13
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



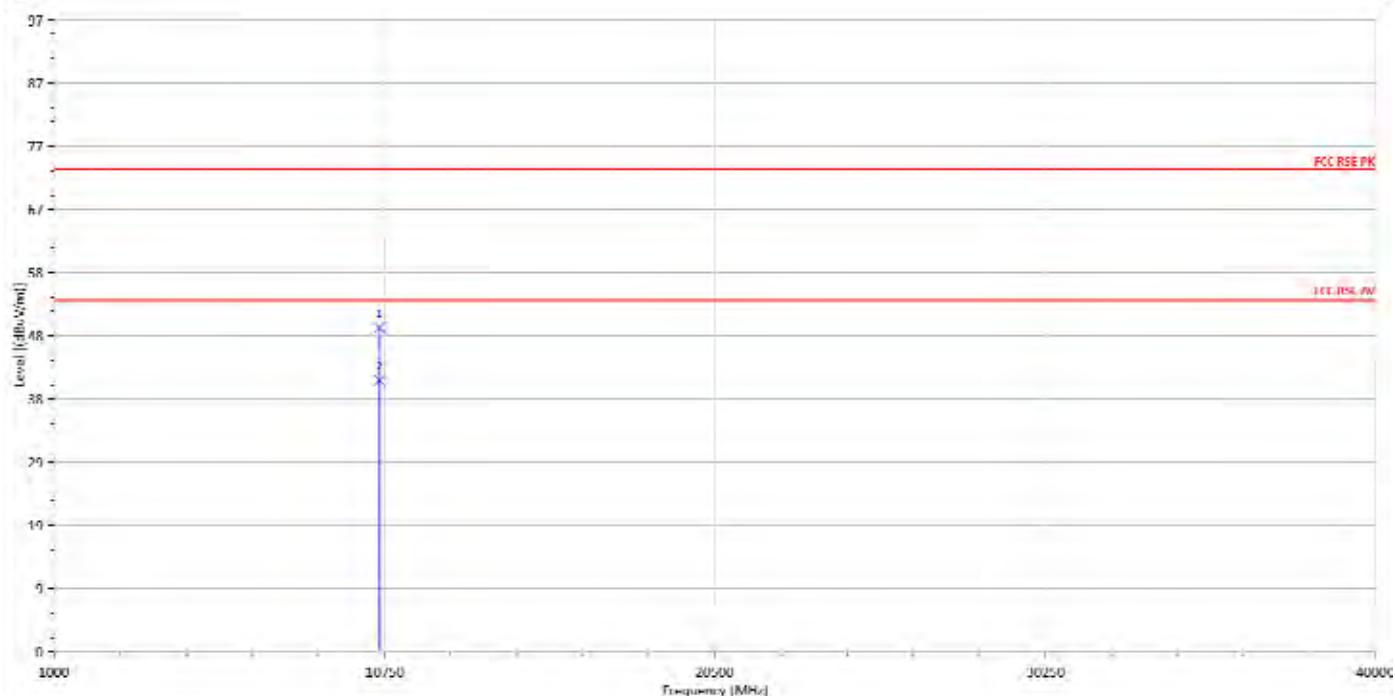
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	H	Peak	31.34	20.17	51.51	74	-22.49
10600.00	H	Average	23.17	20.17	43.34	54	-10.66

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



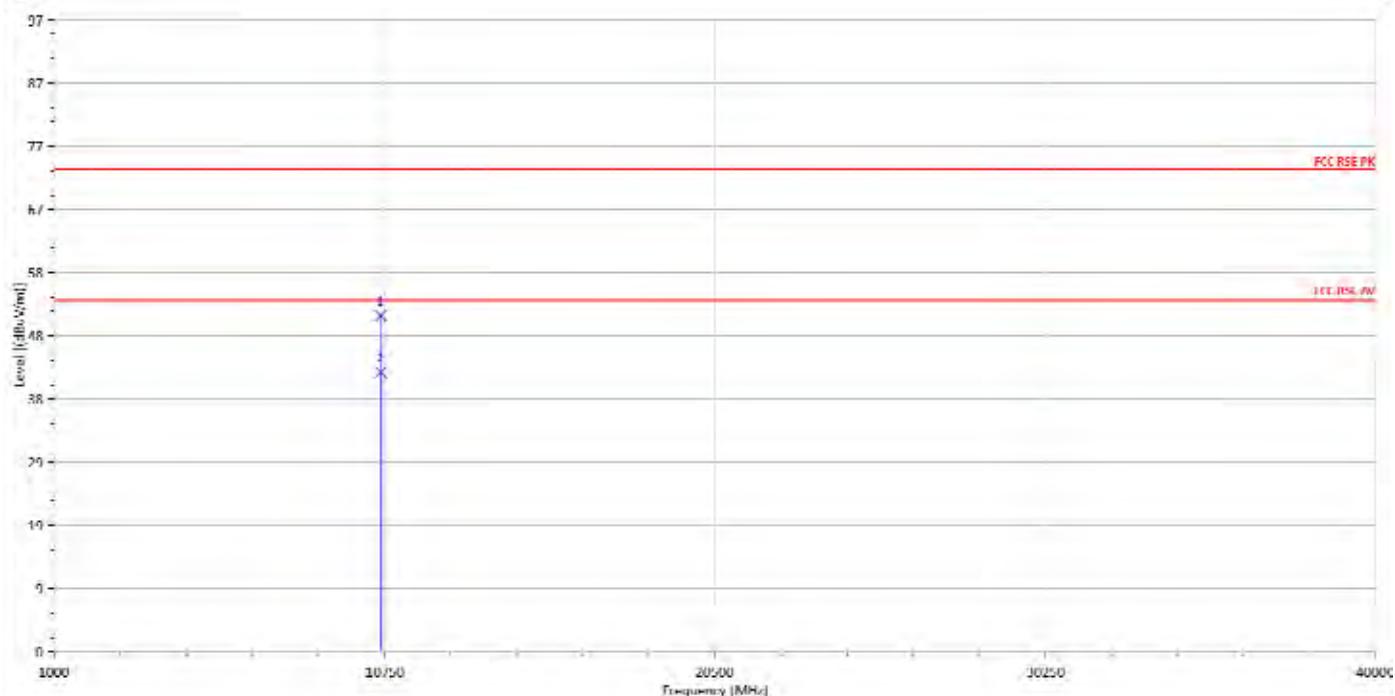
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	H	Peak	29.58	20.17	49.75	74	-24.25
10600.00	H	Average	21.43	20.17	41.60	54	-12.40

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7 deg_C/57 RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



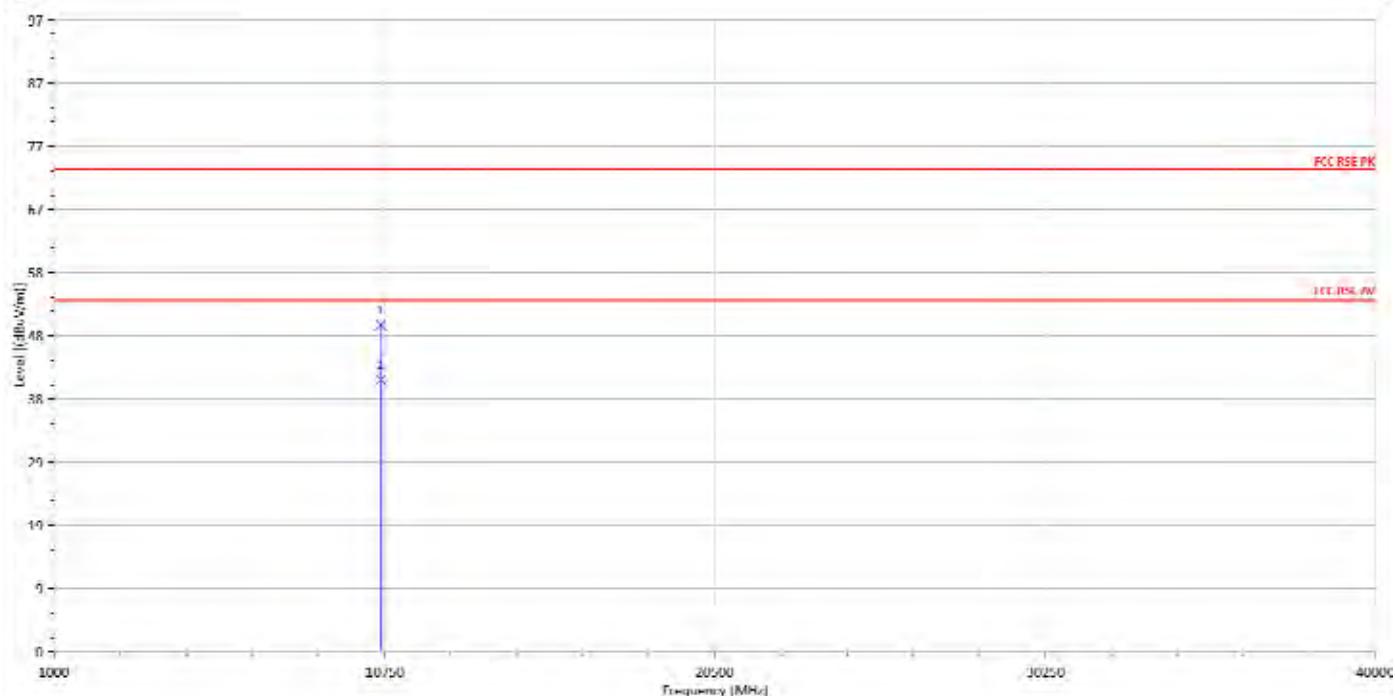
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	H	Peak	31.27	20.34	51.61	74	-22.39
10640.00	H	Average	22.48	20.34	42.82	54	-11.18

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7 deg_C/57 RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	H	Peak	29.86	20.34	50.20	74	-23.80
10640.00	H	Average	21.33	20.34	41.67	54	-12.33

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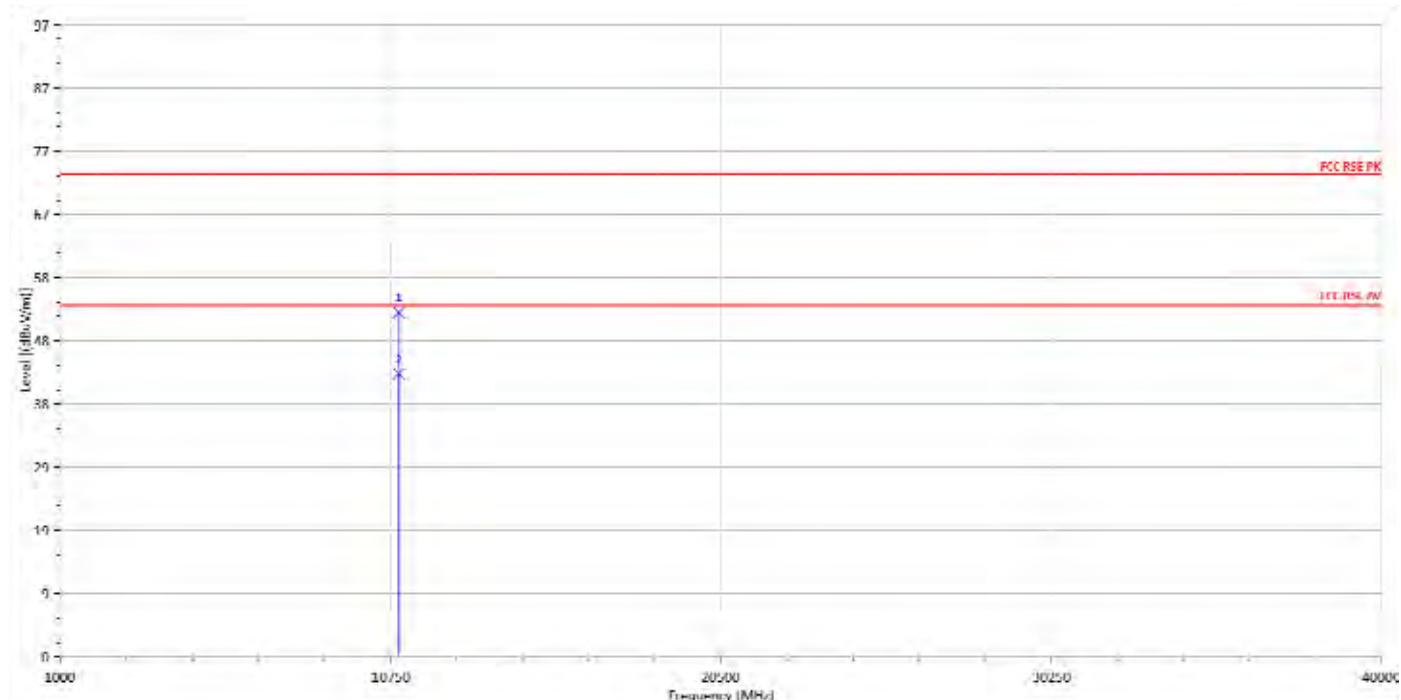
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Radiated Spurious Emission Measurement Result

802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2016/10/13
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



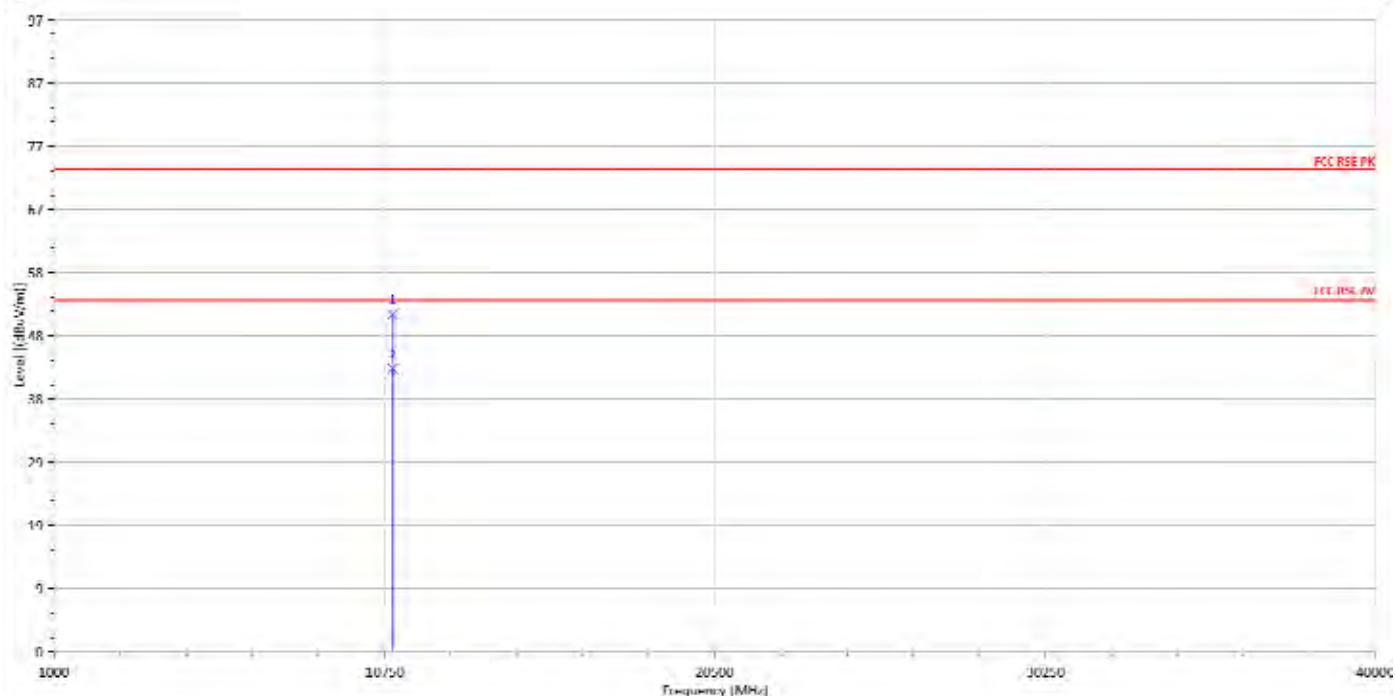
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dBµV	dB	dBµV/m	dBµV/m	dB
11000.00	H	Peak	30.74	22.11	52.84	74	-21.16
11000.00	H	Average	21.29	22.11	43.40	54	-10.60

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



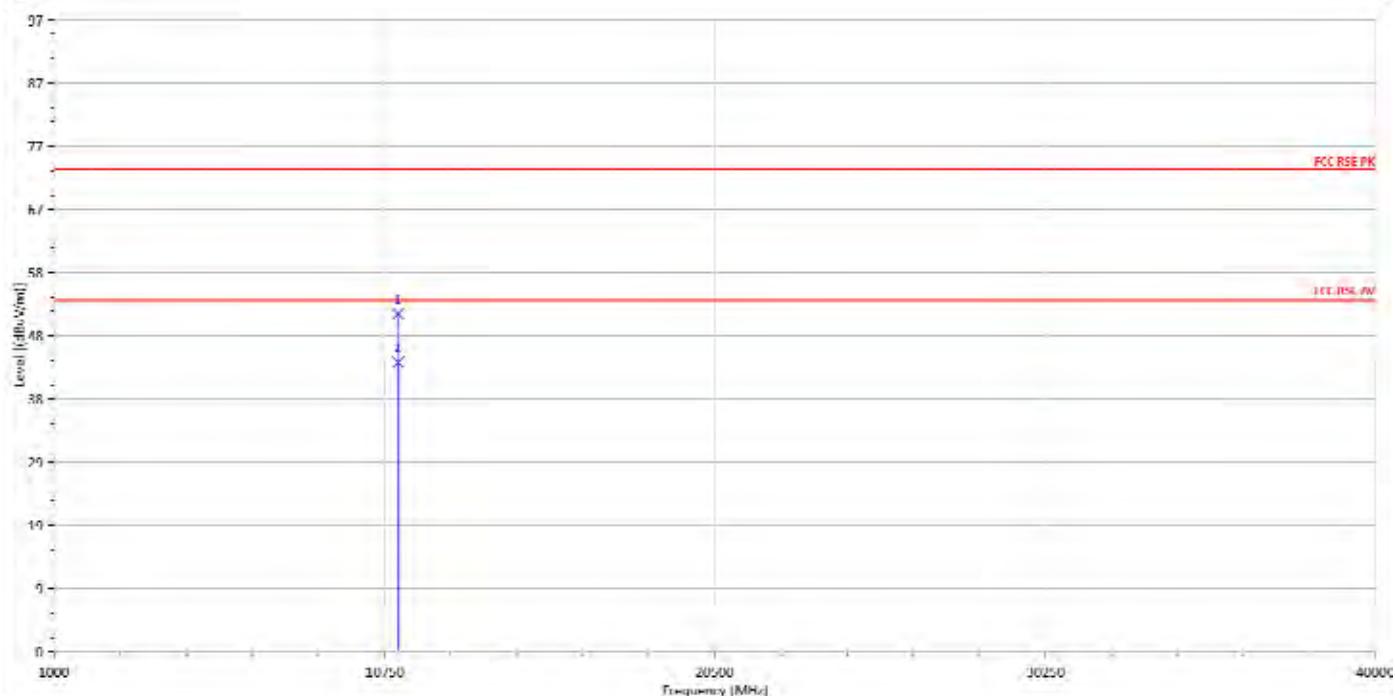
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	H	Peak	29.71	22.11	51.81	74	-22.19
11000.00	H	Average	21.29	22.11	43.40	54	-10.60

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



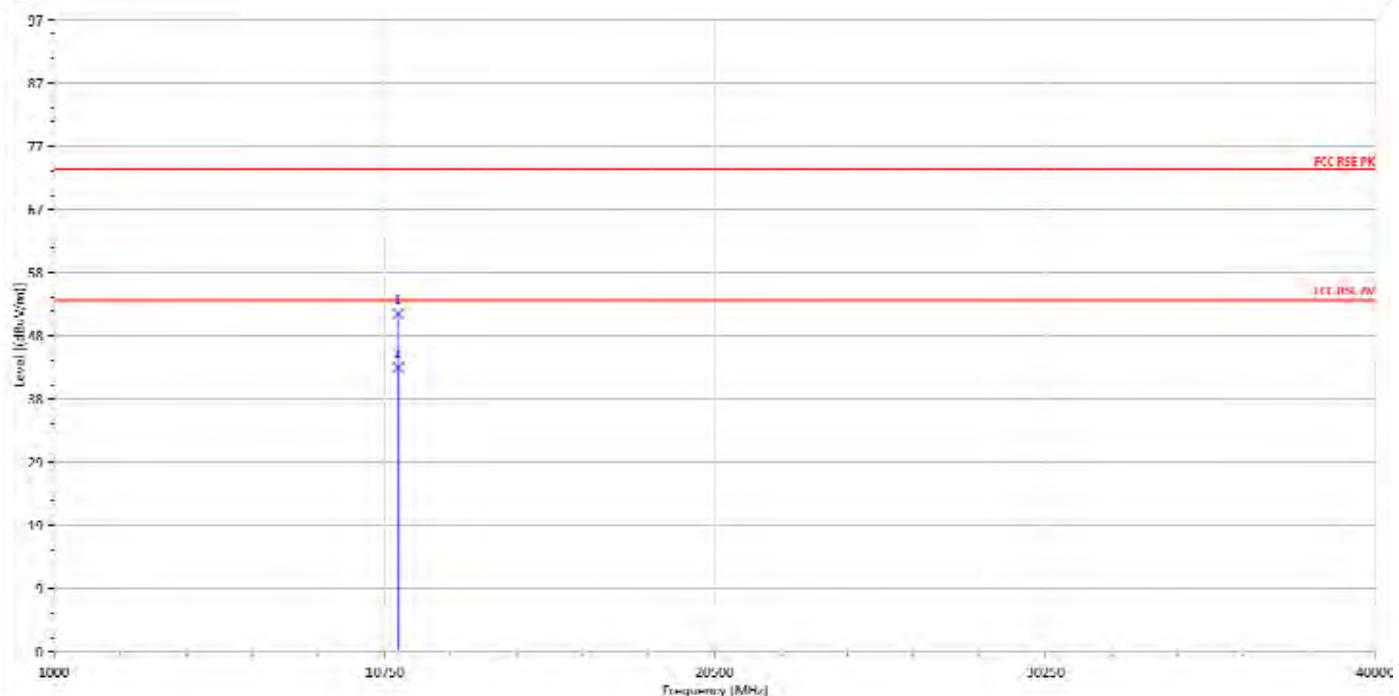
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	H	Peak	29.85	22.04	51.89	74	-22.11
11160.00	H	Average	22.34	22.04	44.38	54	-9.62

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



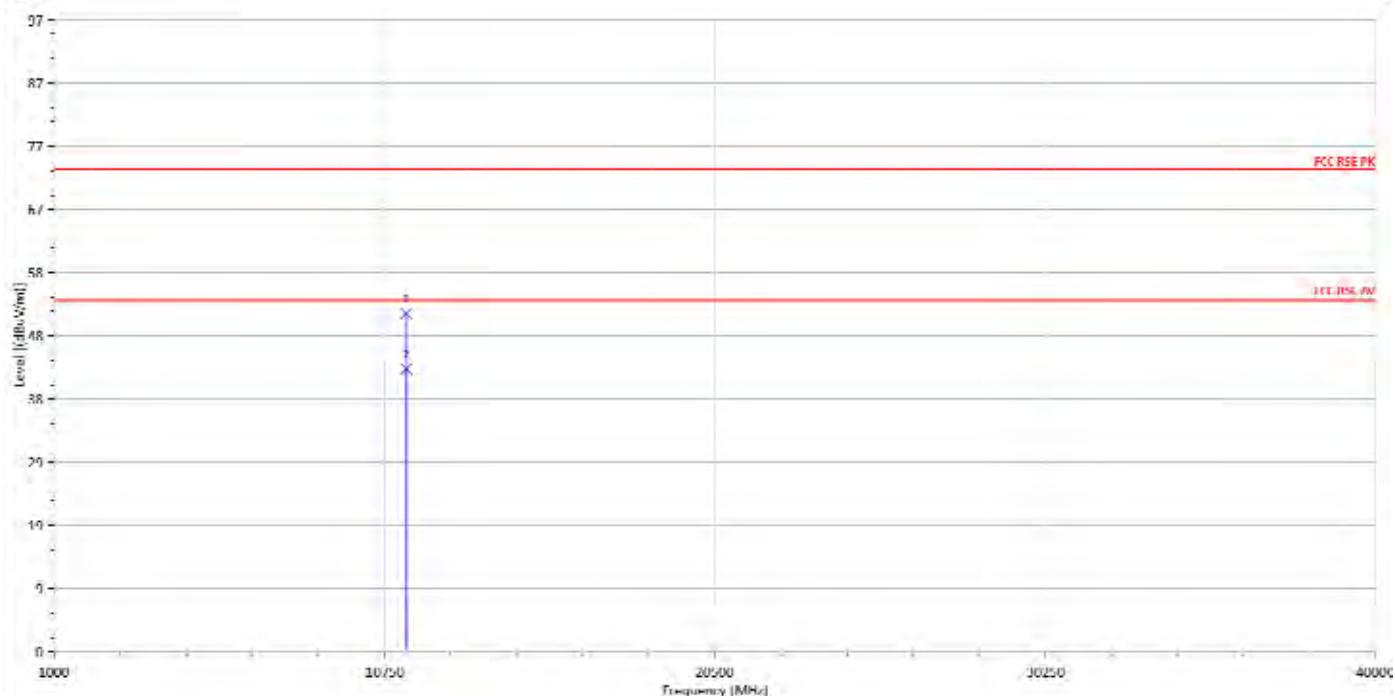
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	H	Peak	29.88	22.04	51.91	74	-22.09
11160.00	H	Average	21.56	22.04	43.60	54	-10.40

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7 deg_C/57 RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



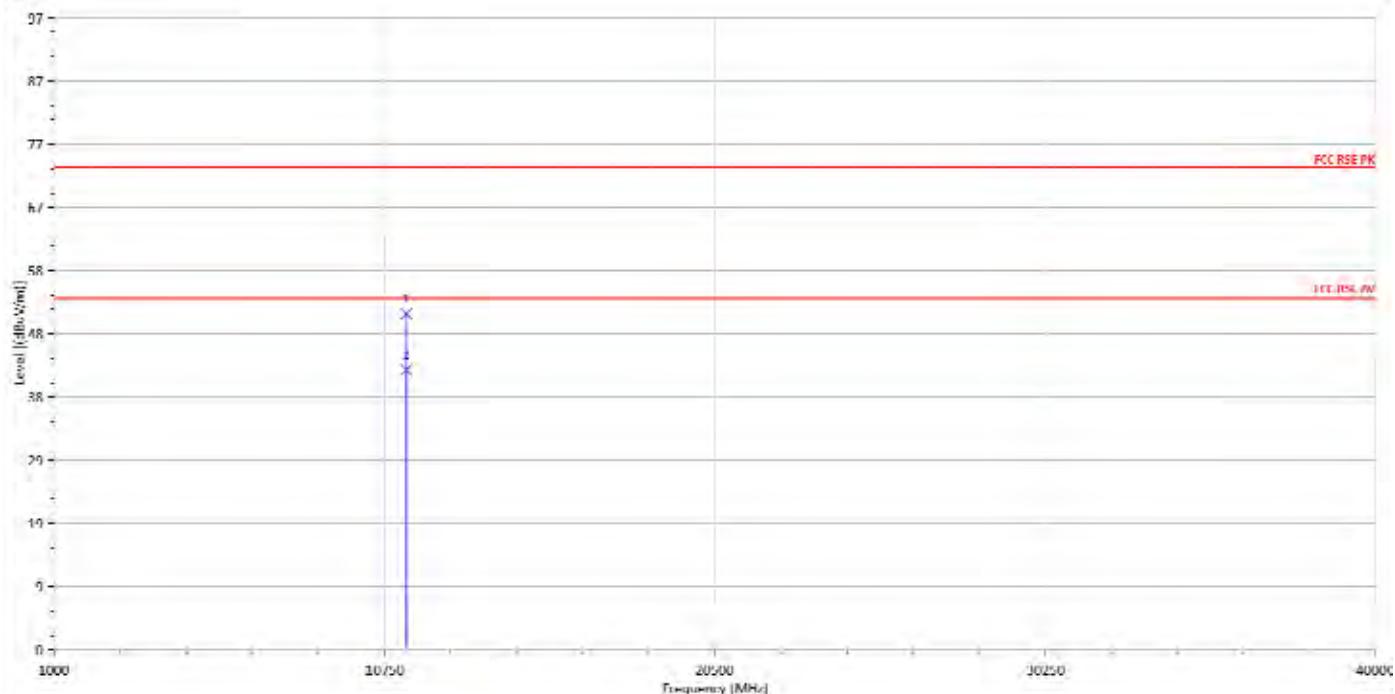
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	H	Peak	30.73	21.22	51.95	74	-22.05
11400.00	H	Average	22.16	21.22	43.38	54	-10.62

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7 deg_C/57 RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	H	Peak	30.41	21.22	51.63	74	-22.37
11400.00	H	Average	21.67	21.22	42.89	54	-11.11

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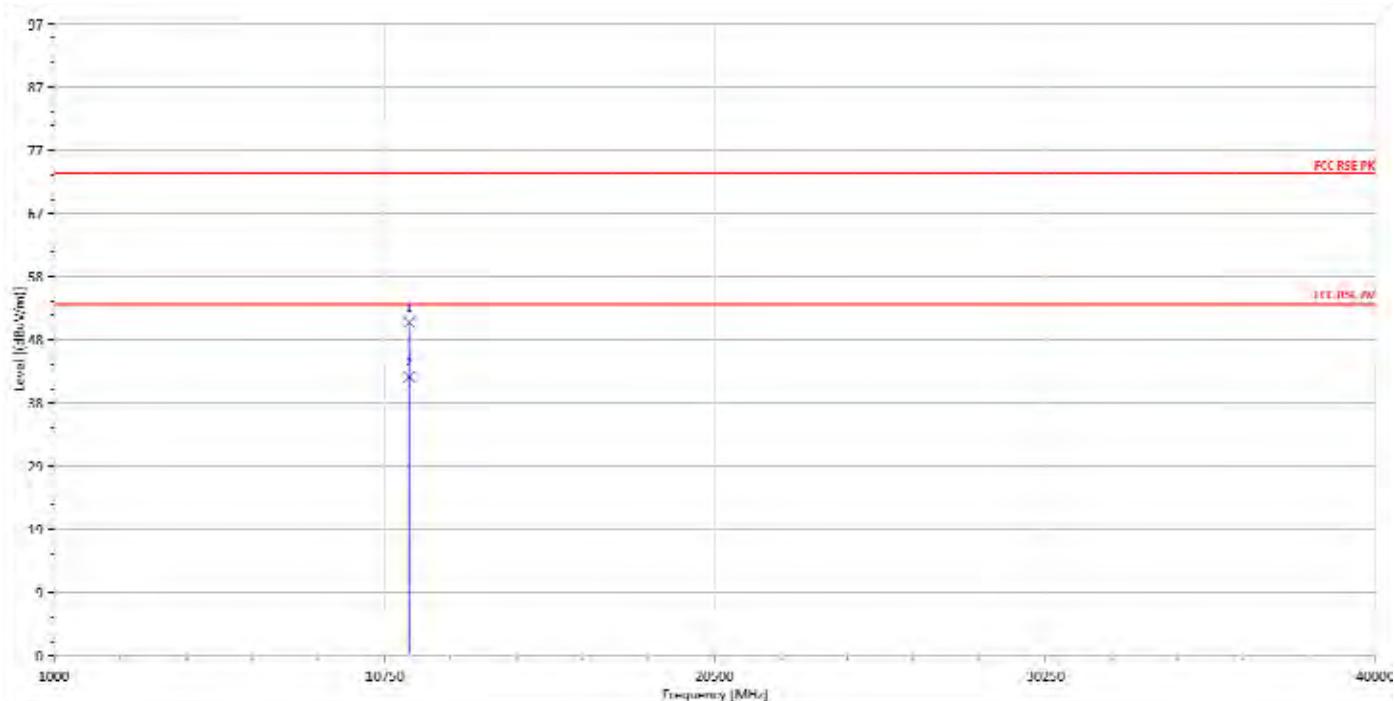
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Radiated Spurious Emission Measurement Result

802.11a, 5725~5850 MHz

Operation Mode : 802.11a Test Date : 2016/10/13
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



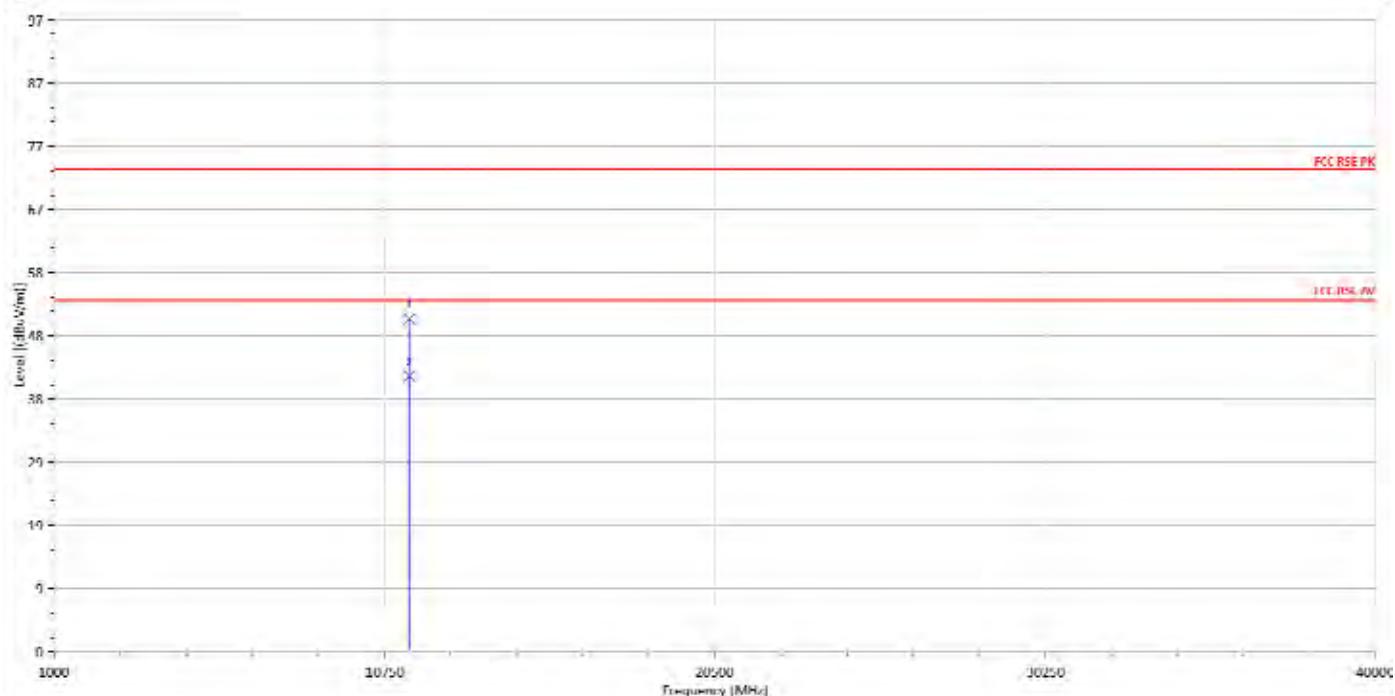
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	H	Peak	30.49	20.70	51.20	74	-22.80
11490.00	H	Average	22.04	20.70	42.74	54	-11.26

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



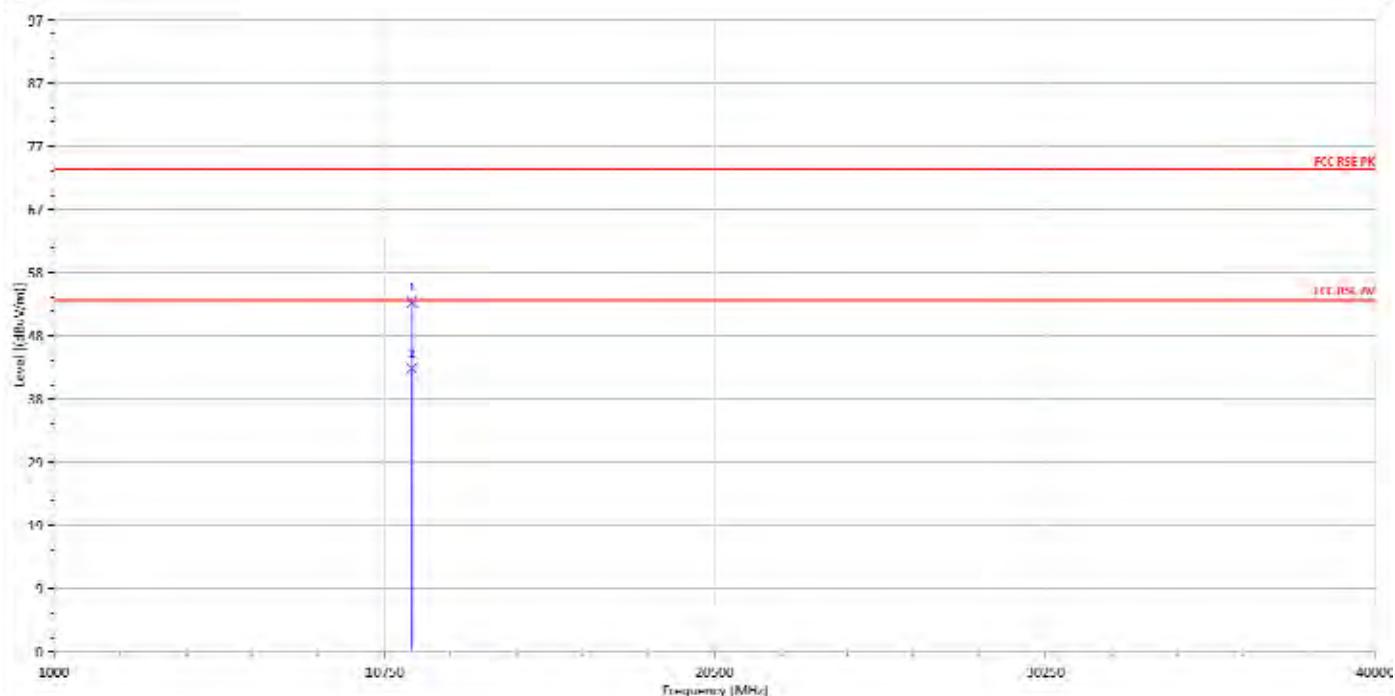
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	H	Peak	30.41	20.70	51.11	74	-22.89
11490.00	H	Average	21.54	20.70	42.24	54	-11.76

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



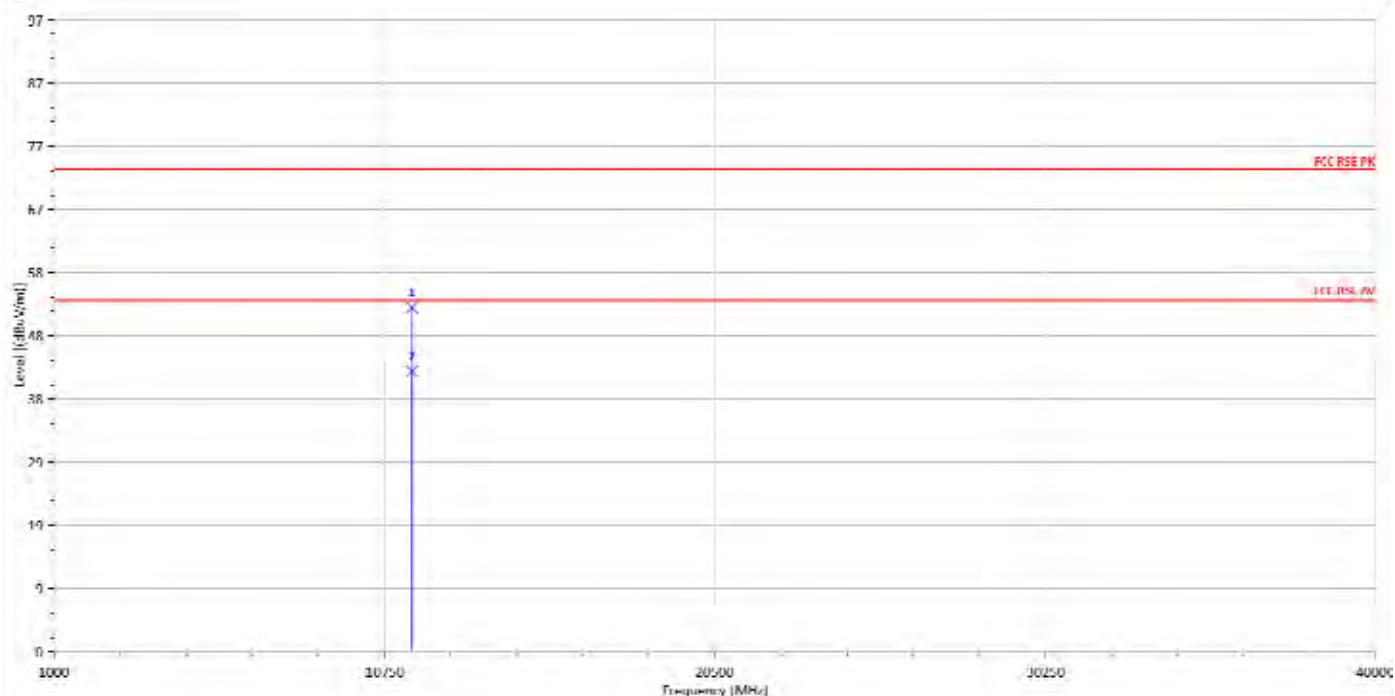
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.00	H	Peak	32.22	21.44	53.66	74	-20.34
11570.00	H	Average	22.03	21.44	43.47	54	-10.53

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



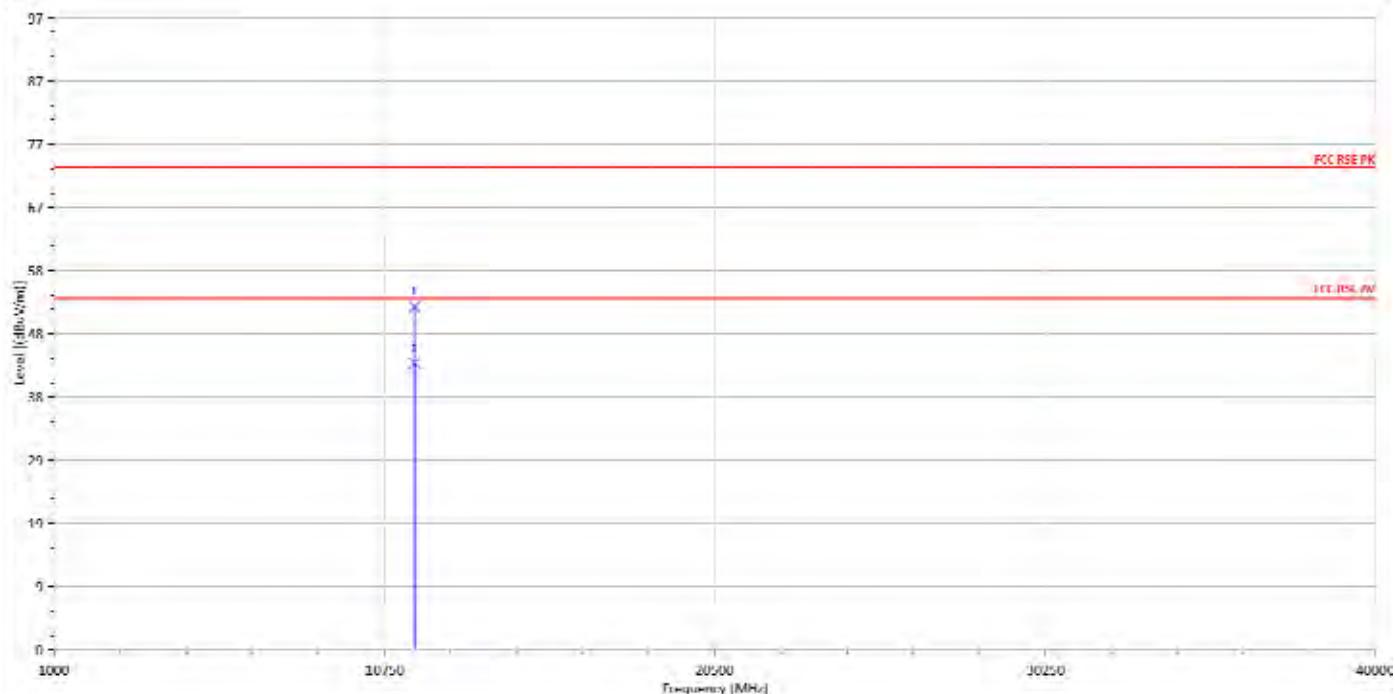
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	31.41	21.44	52.85	74	-21.15
11570.00	H	Average	21.56	21.44	43.00	54	-11.00

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7 deg_C/57 RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



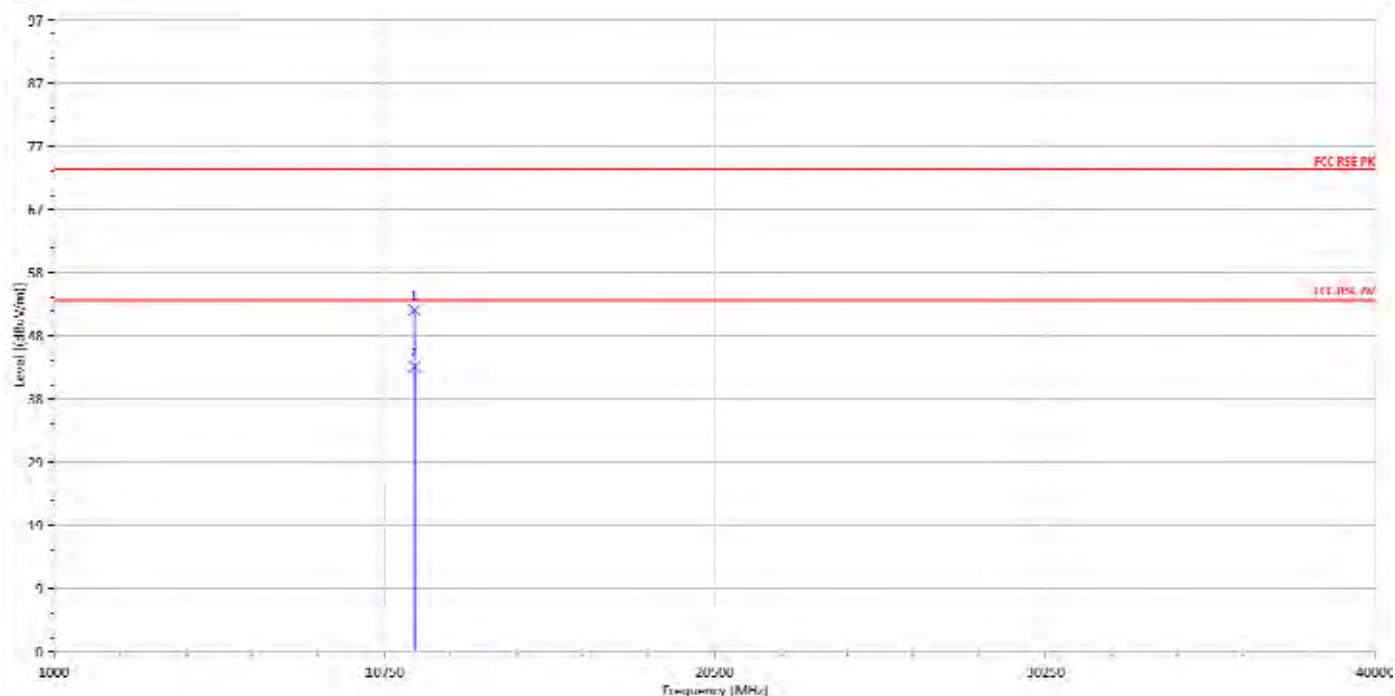
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	H	Peak	30.65	22.02	52.67	74	-21.33
11650.00	H	Average	21.99	22.02	44.01	54	-9.99

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Operation Mode : 802.11a Test Date : 2016/10/13
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7 deg_C/57 RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	H	Peak	30.48	22.02	52.50	74	-21.50
11650.00	H	Average	21.68	22.02	43.70	54	-10.30

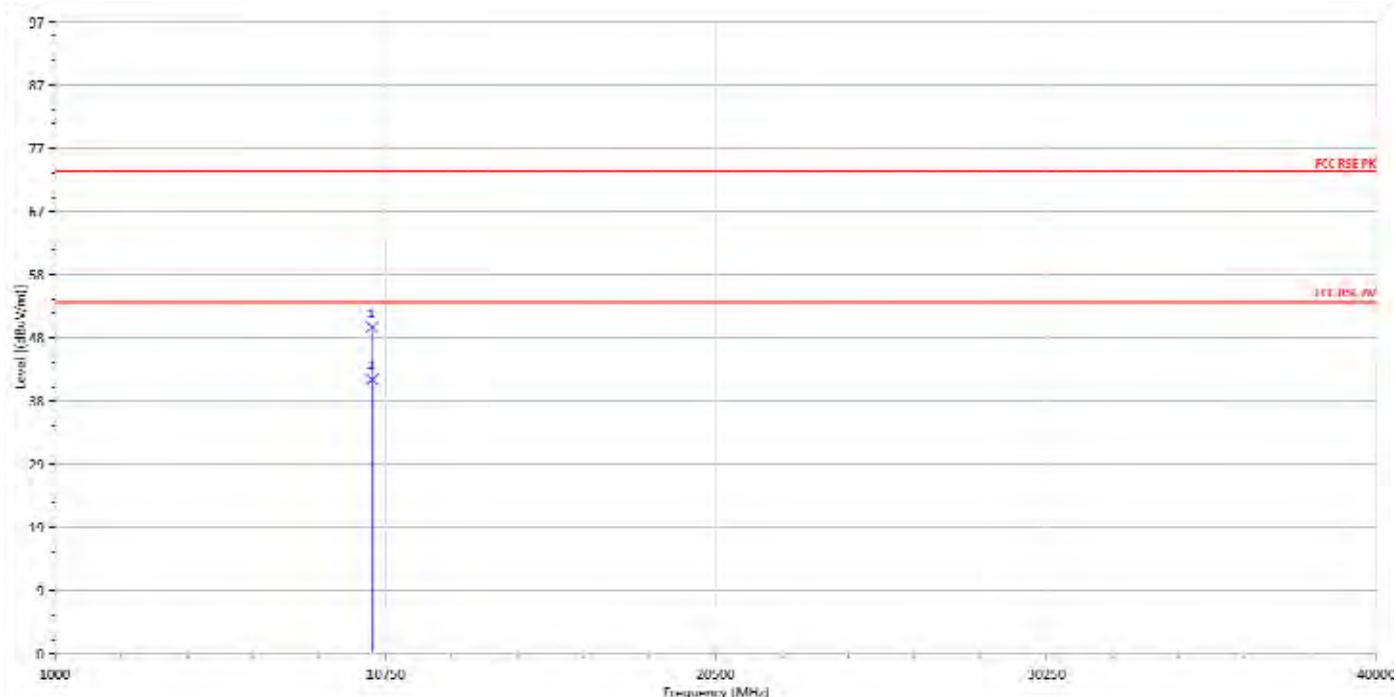
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Radiated Spurious Emission Measurement Result**Above 1GHz Worst-Case Data:****802.11ac_VHT20, 5150~5250 MHz**

Operation Mode : 802.11ac20 Test Date : 2016/10/13
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



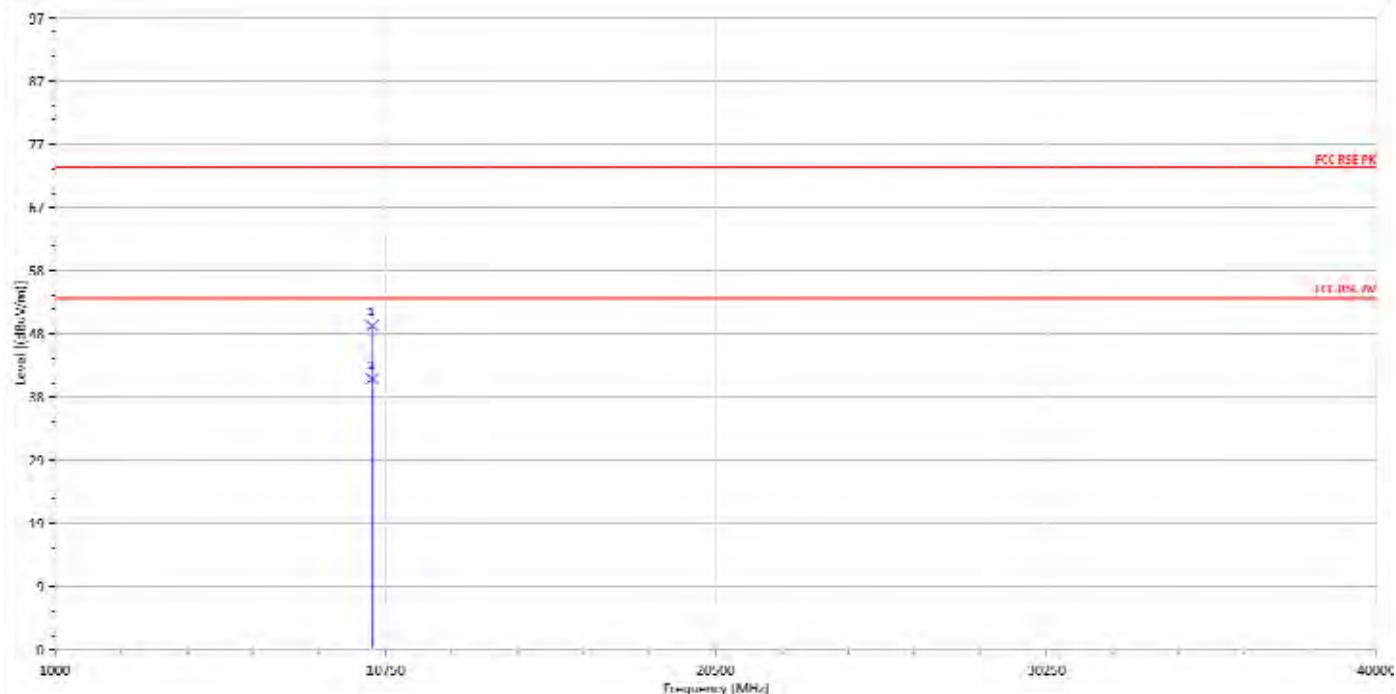
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	H	Peak	29.95	20.18	50.12	74	-23.88
10360.00	H	Average	21.83	20.18	42.01	54	-11.99

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



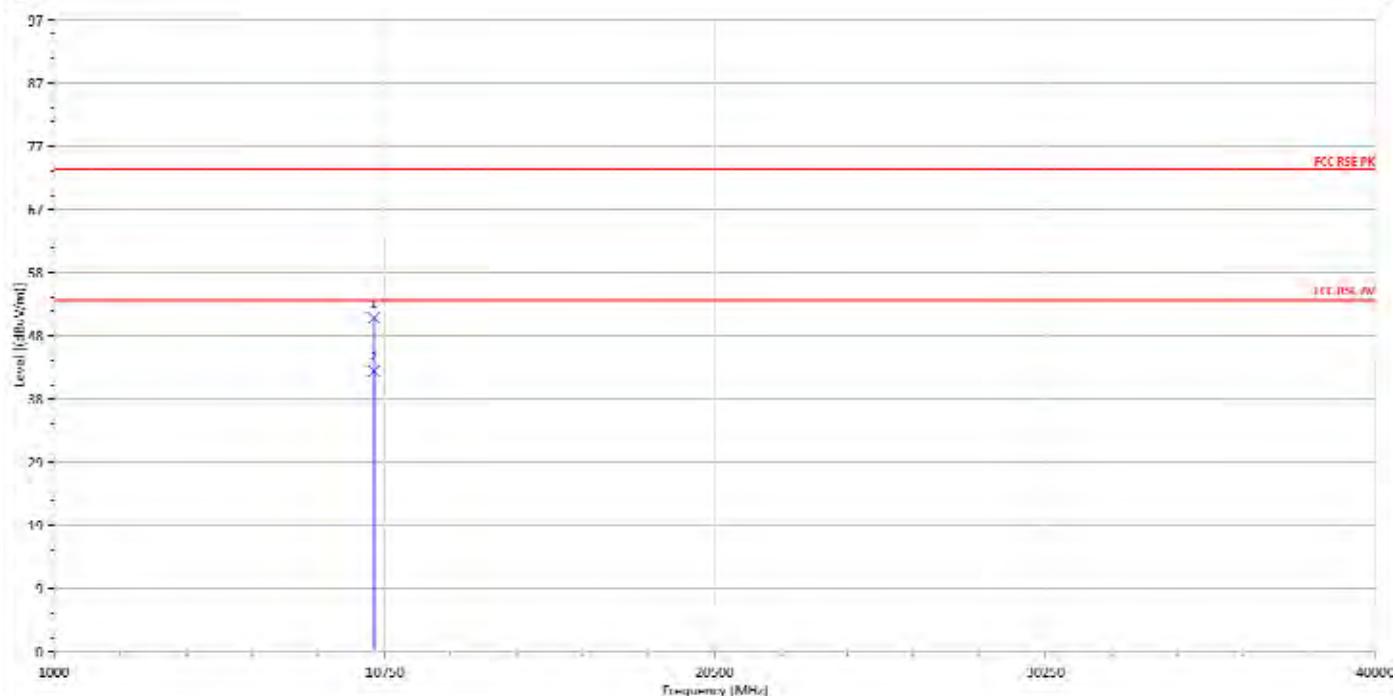
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	H	Peak	29.58	20.18	49.75	74	-24.25
10360.00	H	Average	21.34	20.18	41.52	54	-12.48

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



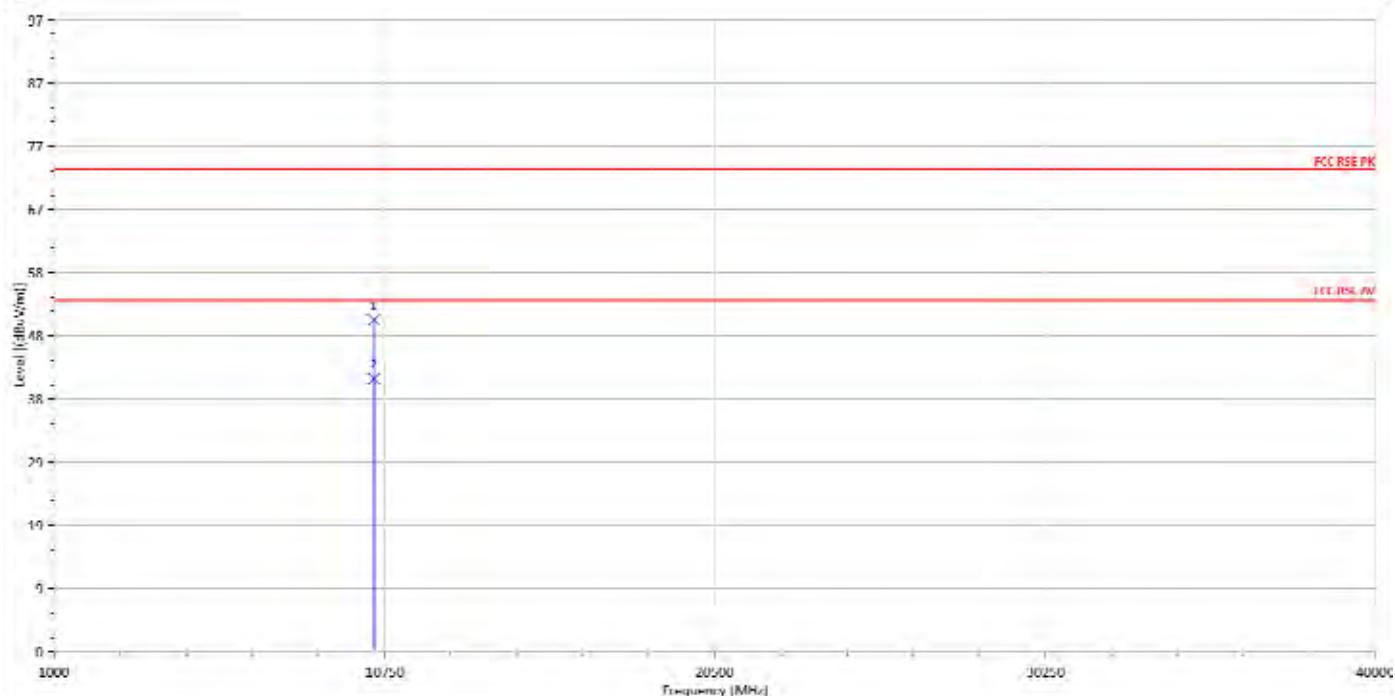
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	H	Peak	30.98	20.29	51.27	74	-22.73
10440.00	H	Average	22.75	20.29	43.04	54	-10.96

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



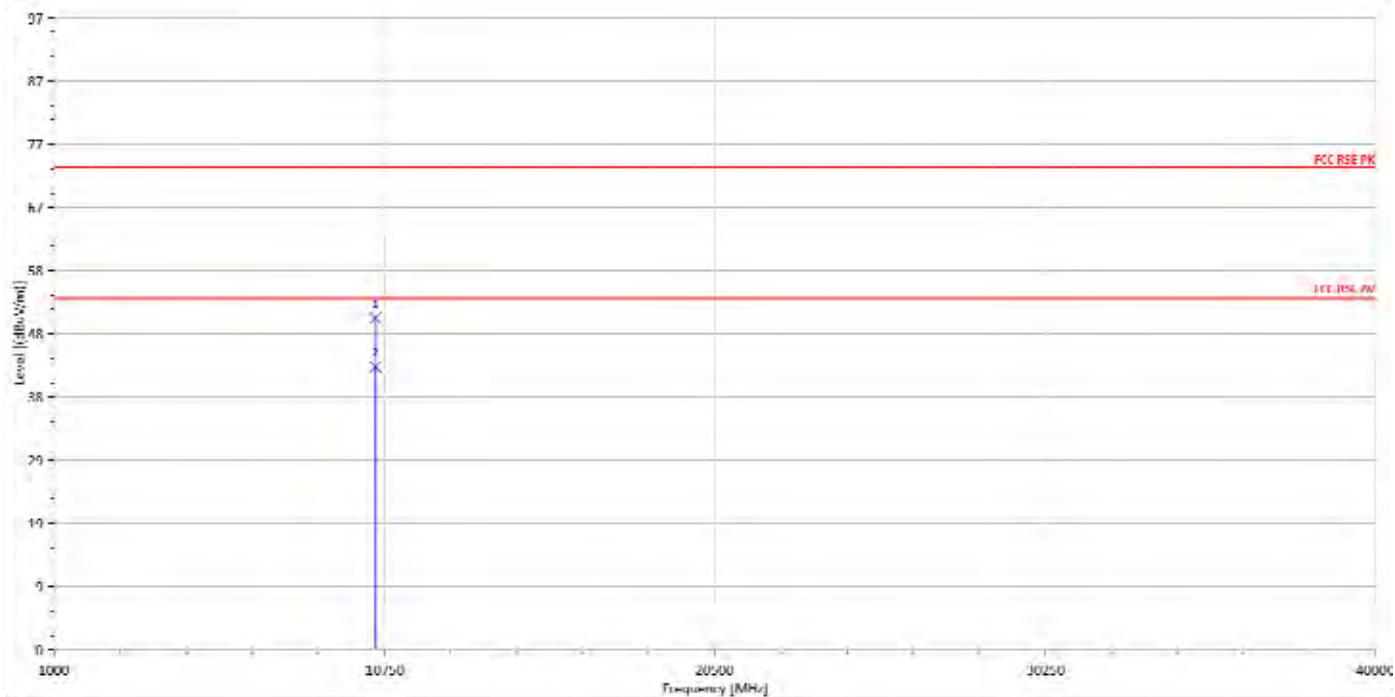
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	H	Peak	30.69	20.29	50.98	74	-23.02
10440.00	H	Average	21.54	20.29	41.83	54	-12.17

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



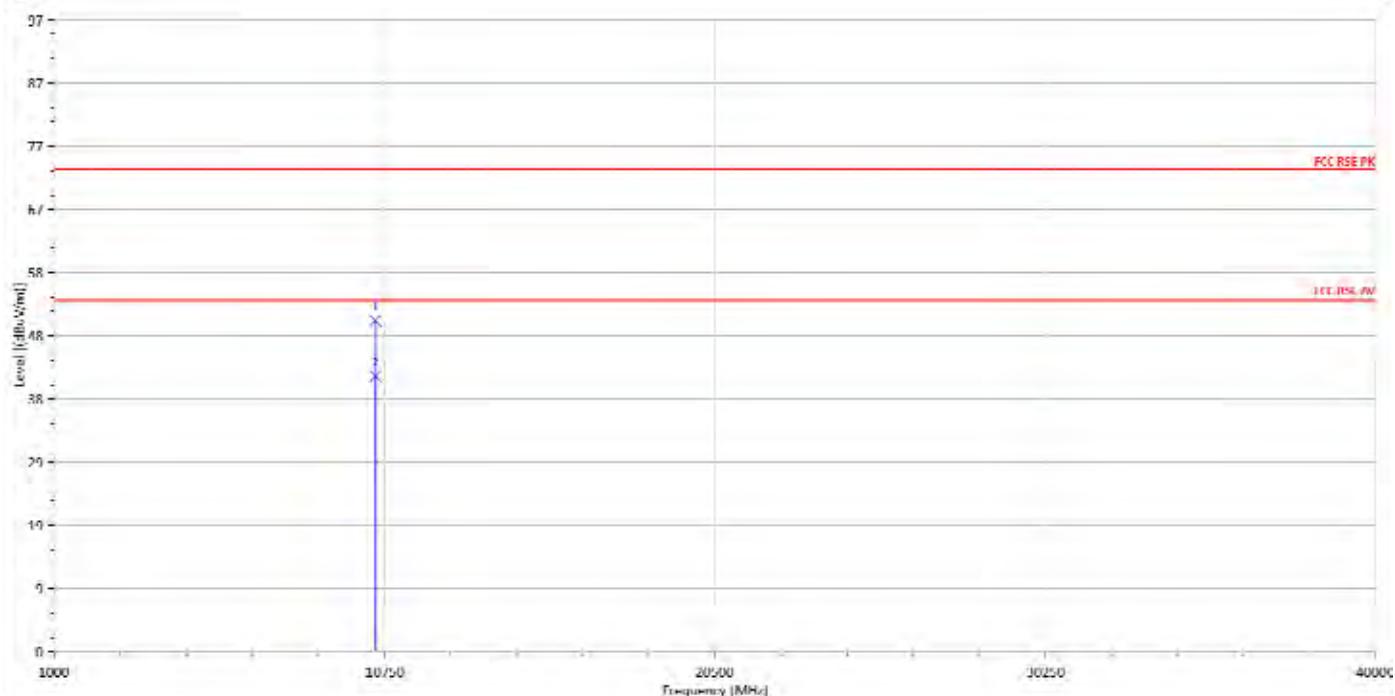
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	H	Peak	30.29	20.68	50.97	74	-23.03
10480.00	H	Average	22.70	20.68	43.38	54	-10.62

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	H	Peak	30.16	20.68	50.84	74	-23.16
10480.00	H	Average	21.54	20.68	42.22	54	-11.78

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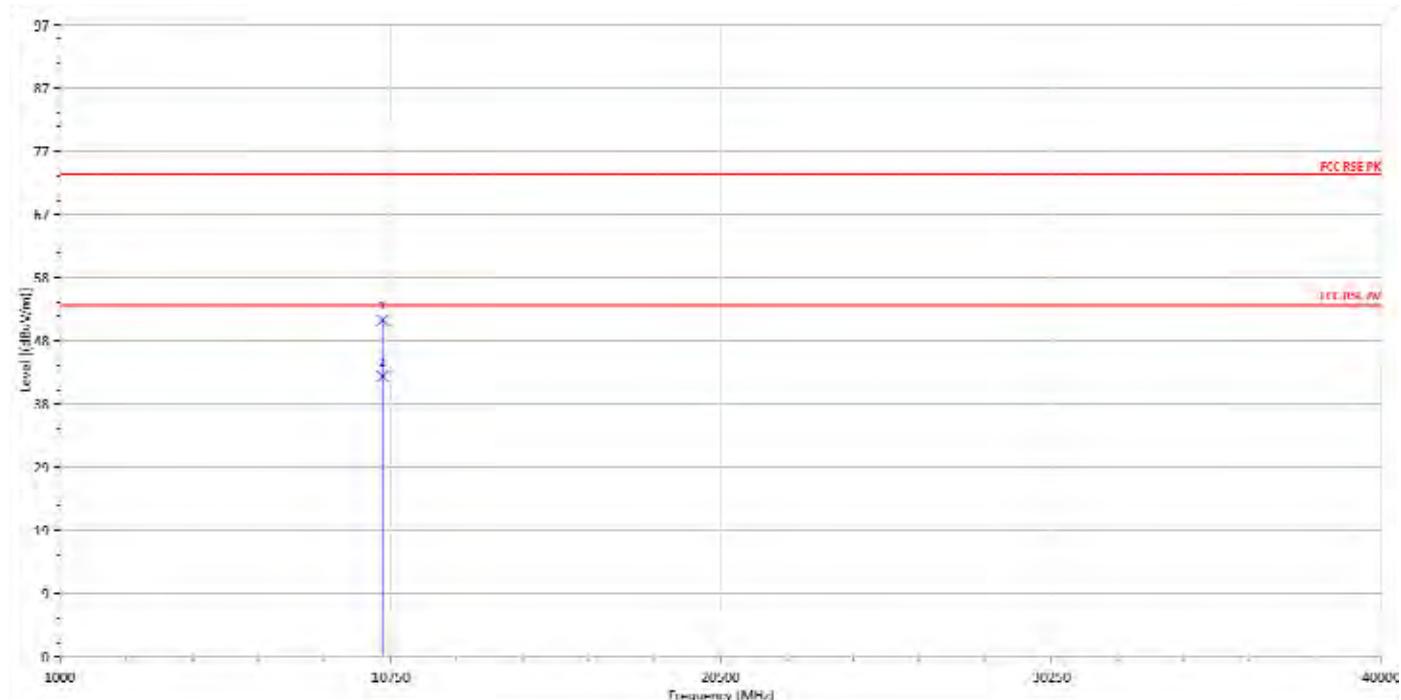
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Radiated Spurious Emission Measurement Result

802.11ac_VHT20, 5250~5350 MHz

Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



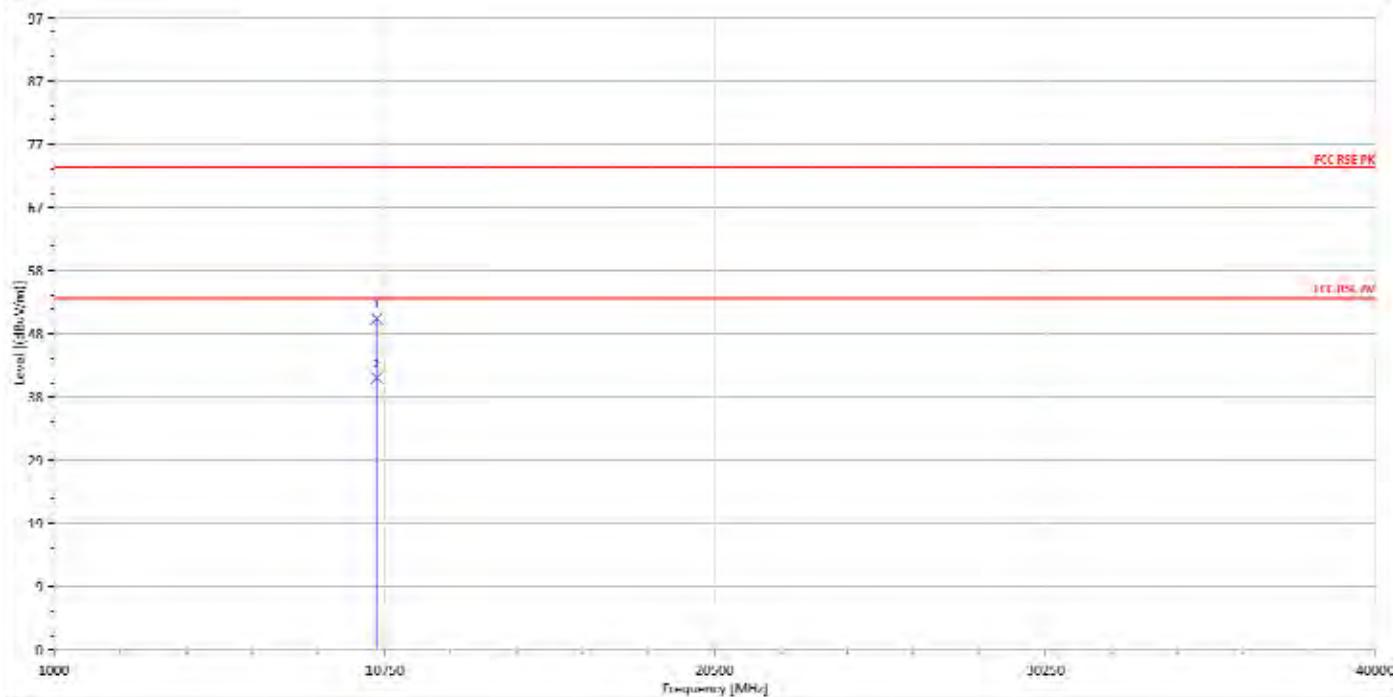
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10520.00	H	Peak	31.58	20.10	51.68	74	-22.32
10520.00	H	Average	22.89	20.10	42.99	54	-11.01

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



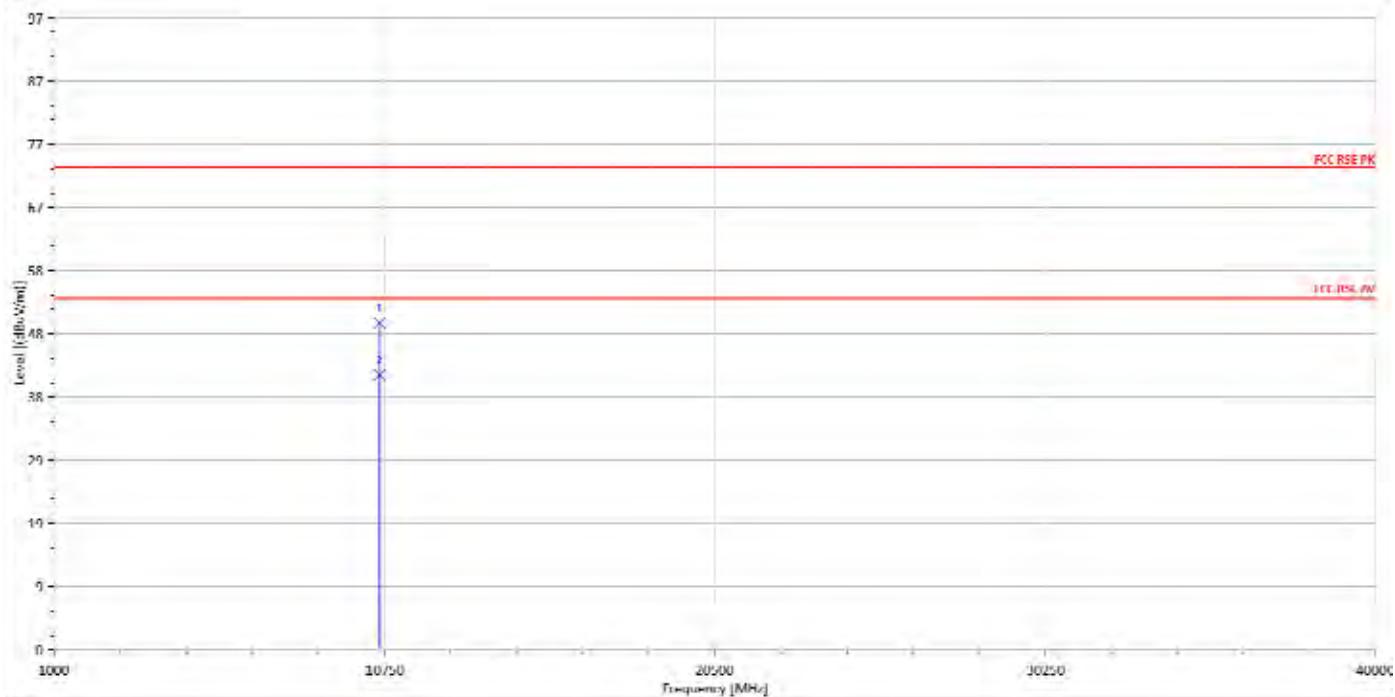
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	H	Peak	30.76	20.10	50.86	74	-23.14
10520.00	H	Average	21.55	20.10	41.65	54	-12.35

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



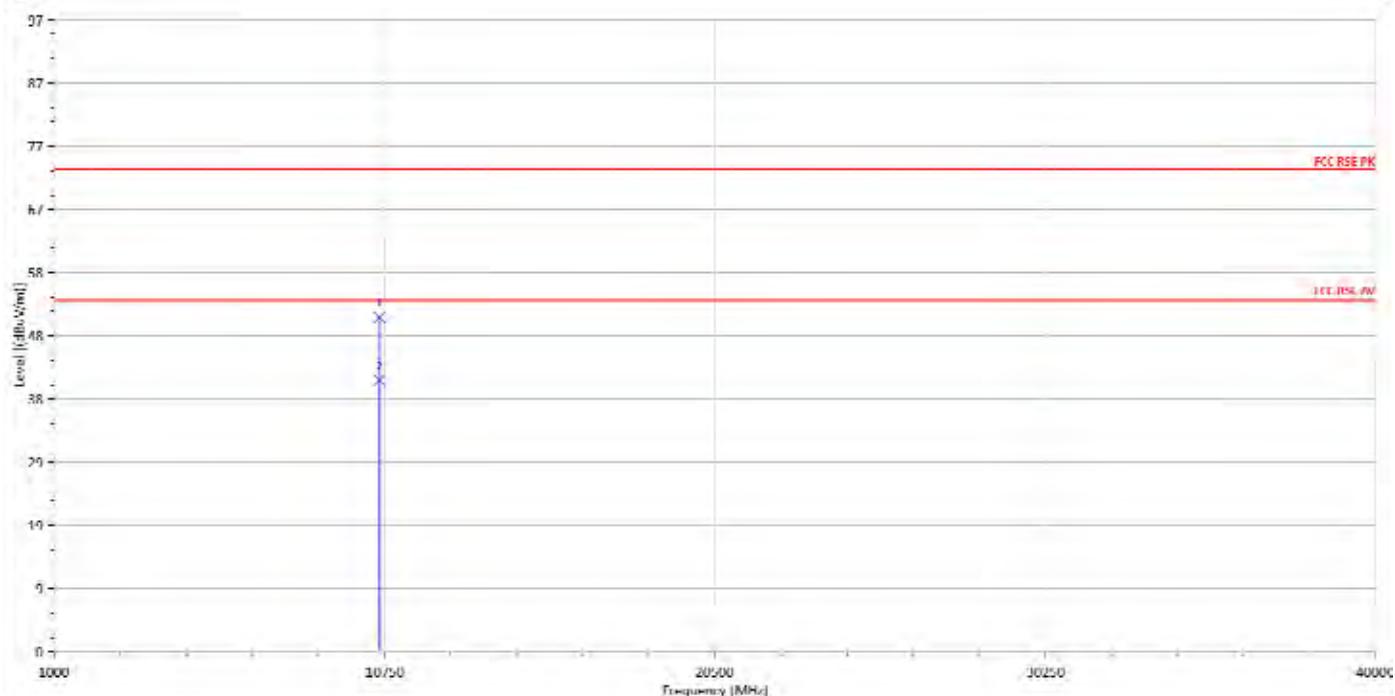
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	H	Peak	30.00	20.17	50.17	74	-23.83
10600.00	H	Average	21.96	20.17	42.13	54	-11.87

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



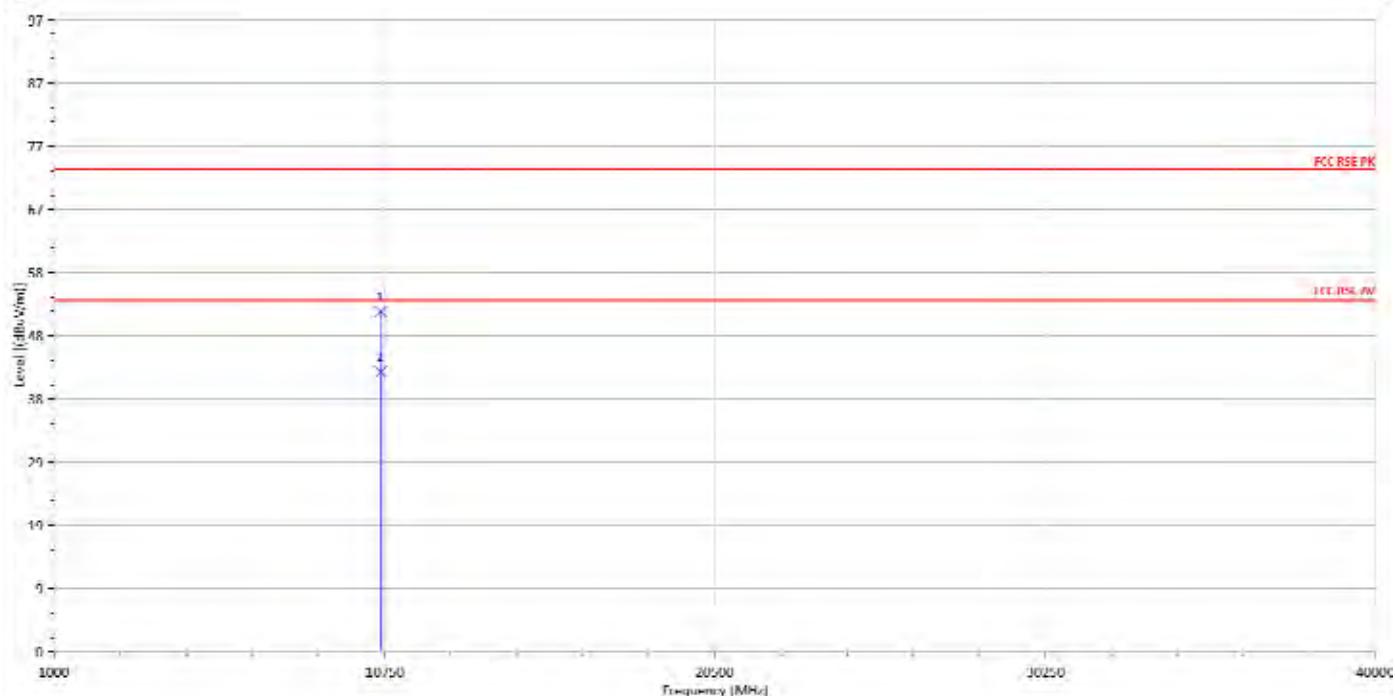
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	H	Peak	31.18	20.17	51.34	74	-22.66
10600.00	H	Average	21.44	20.17	41.61	54	-12.39

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



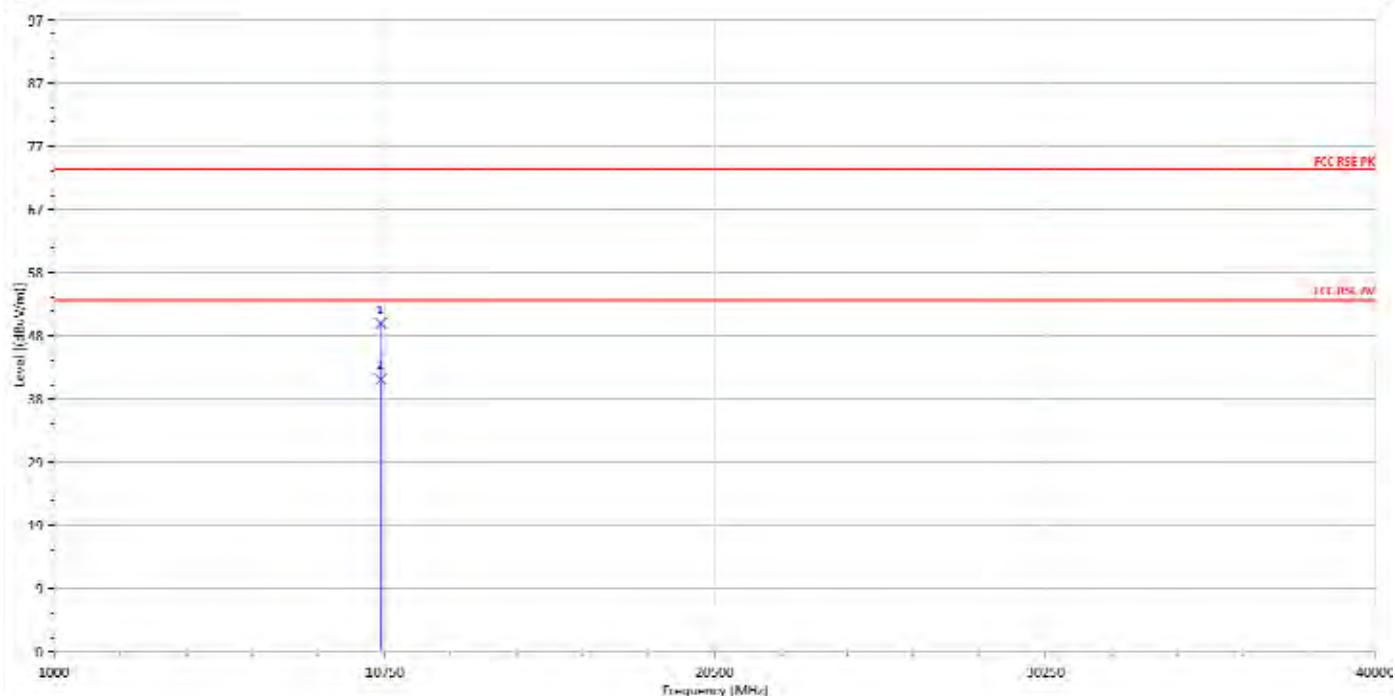
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	31.90	20.34	52.25	74	-21.75
10640.00	H	Average	22.58	20.34	42.92	54	-11.08

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	H	Peak	30.05	20.34	50.40	74	-23.60
10640.00	H	Average	21.39	20.34	41.73	54	-12.27

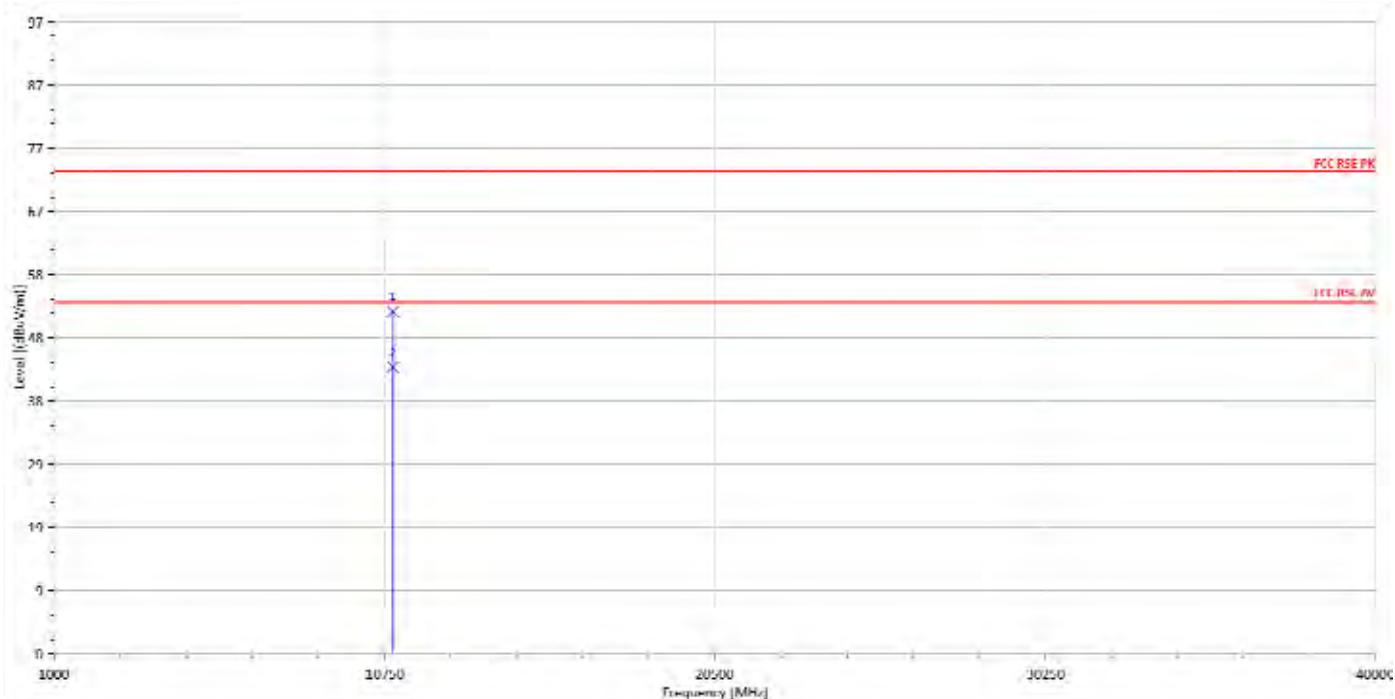
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Radiated Emission Measurement Result**802.11ac_VHT20, 5470~5725 MHz**

Operation Mode : 802.11ac20 Test Date : 2016/10/13
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



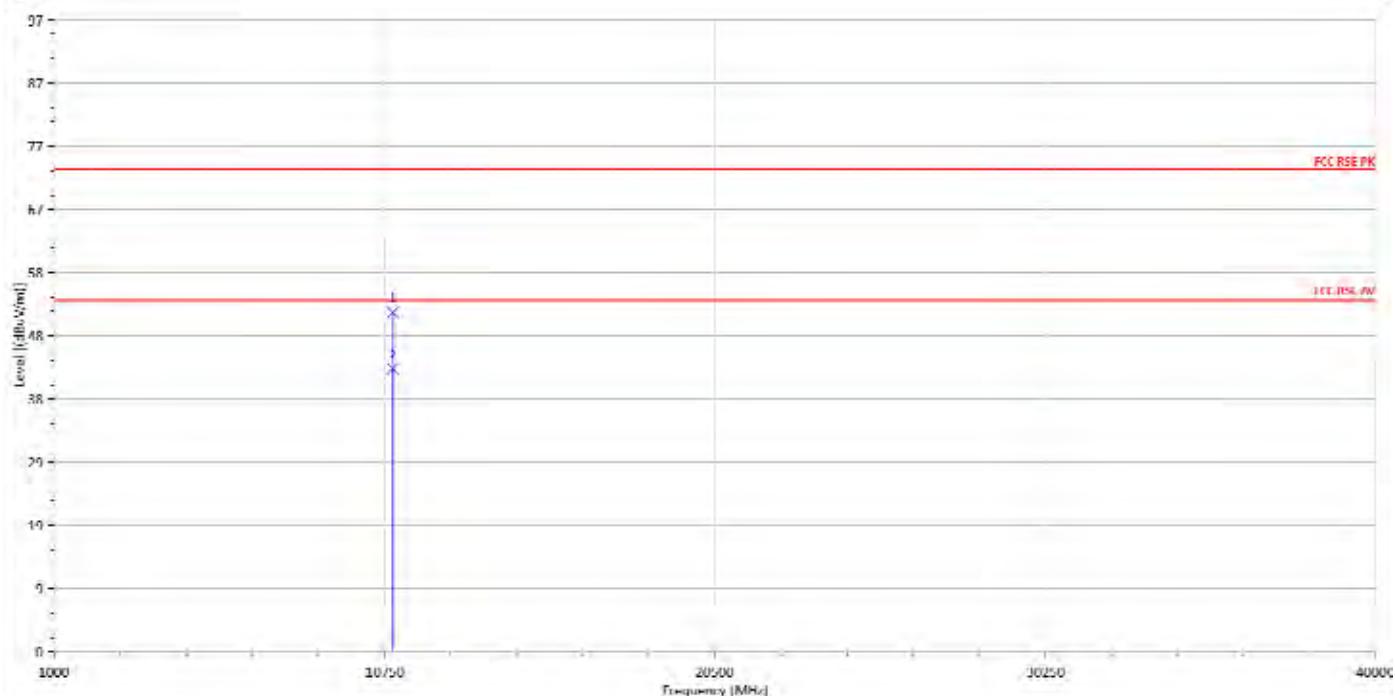
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	H	Peak	30.45	22.11	52.55	74	-21.45
11000.00	H	Average	21.85	22.11	43.96	54	-10.04

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



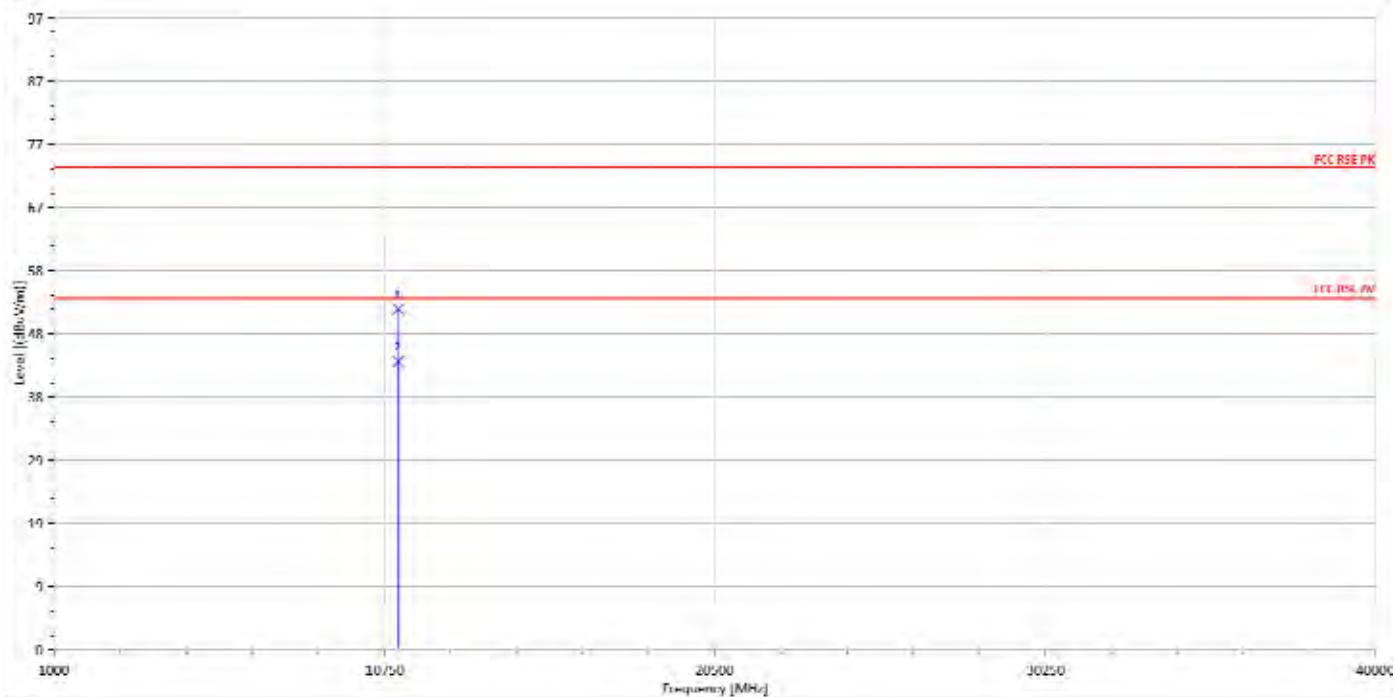
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	H	Peak	30.00	22.11	52.10	74	-21.90
11000.00	H	Average	21.30	22.11	43.41	54	-10.59

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



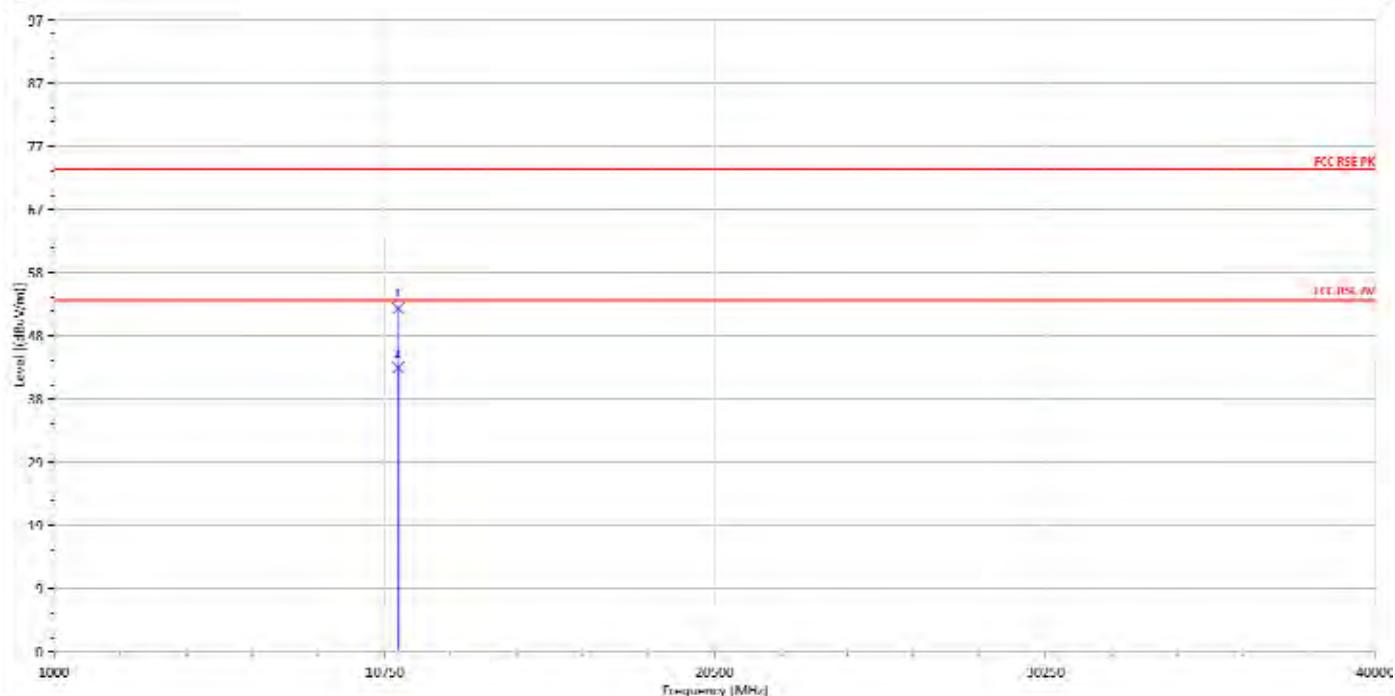
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	H	Peak	30.30	22.04	52.33	74	-21.67
11160.00	H	Average	22.17	22.04	44.21	54	-9.79

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



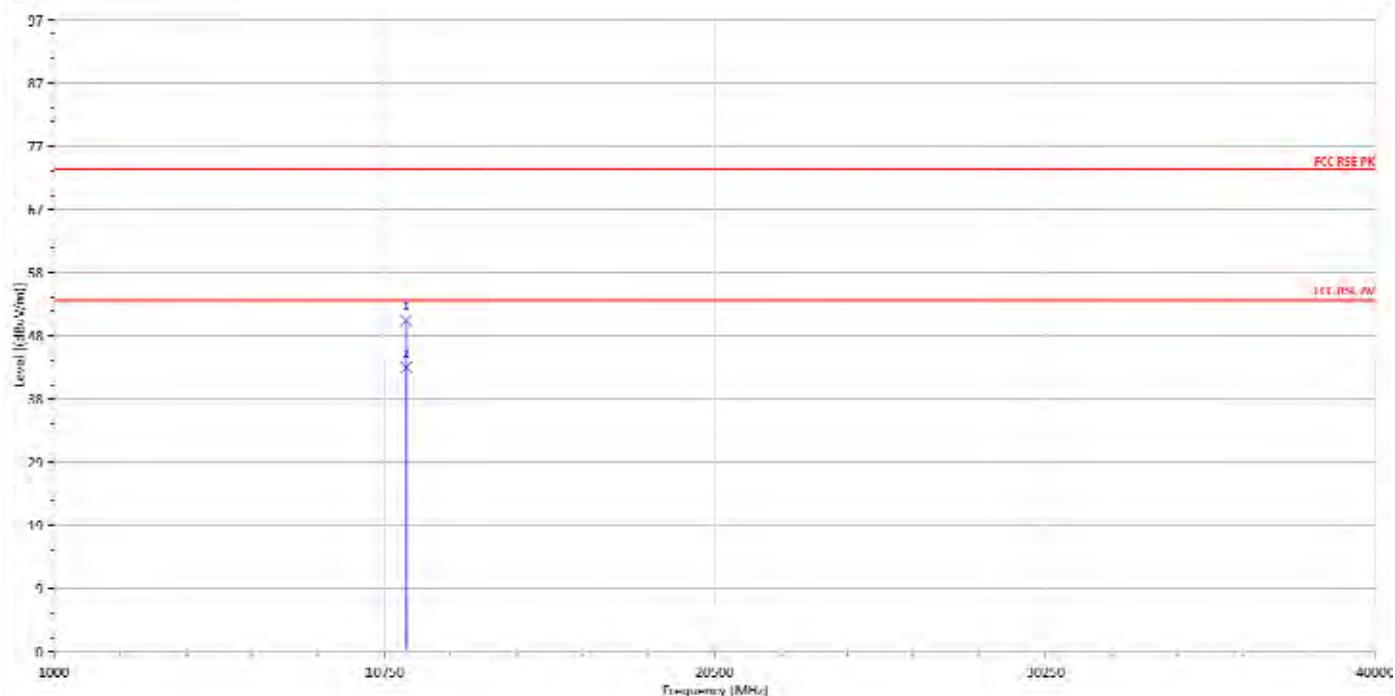
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	H	Peak	30.72	22.04	52.75	74	-21.25
11160.00	H	Average	21.50	22.04	43.54	54	-10.46

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



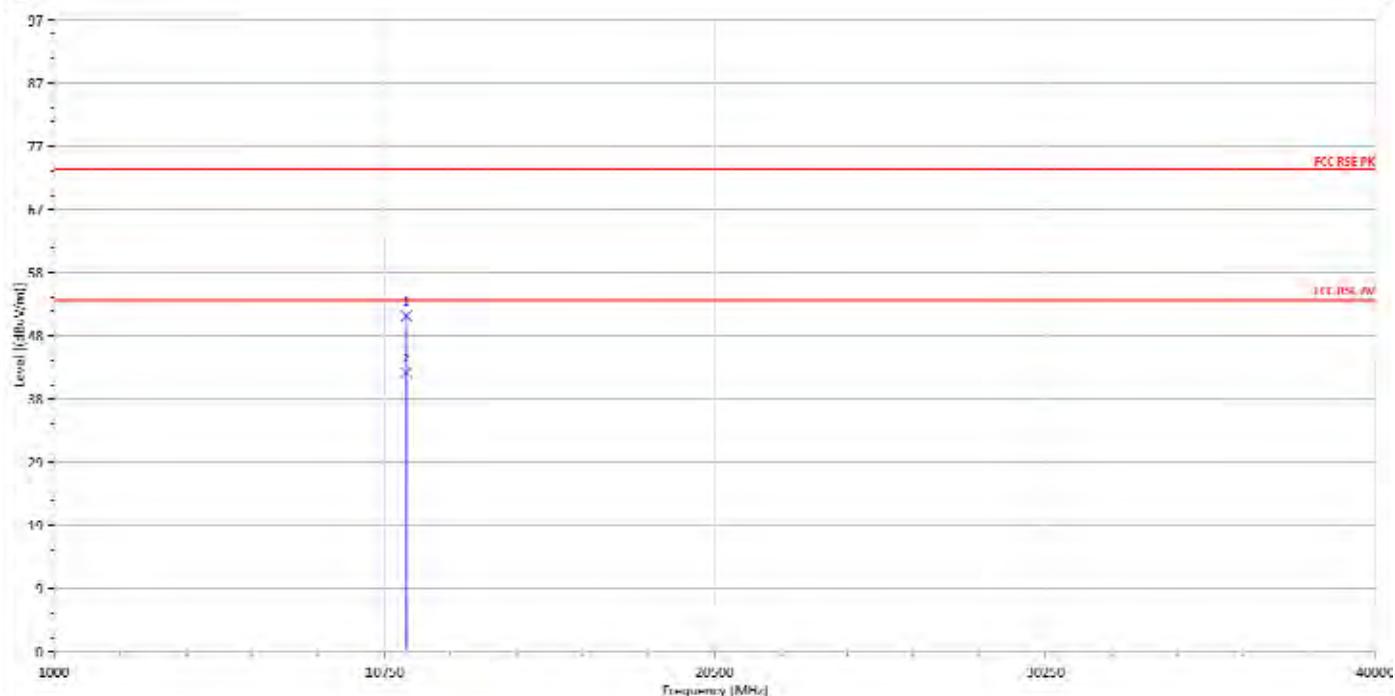
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	H	Peak	29.67	21.22	50.88	74	-23.12
11400.00	H	Average	22.36	21.22	43.58	54	-10.42

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	H	Peak	30.37	21.22	51.58	74	-22.42
11400.00	H	Average	21.57	21.22	42.79	54	-11.21

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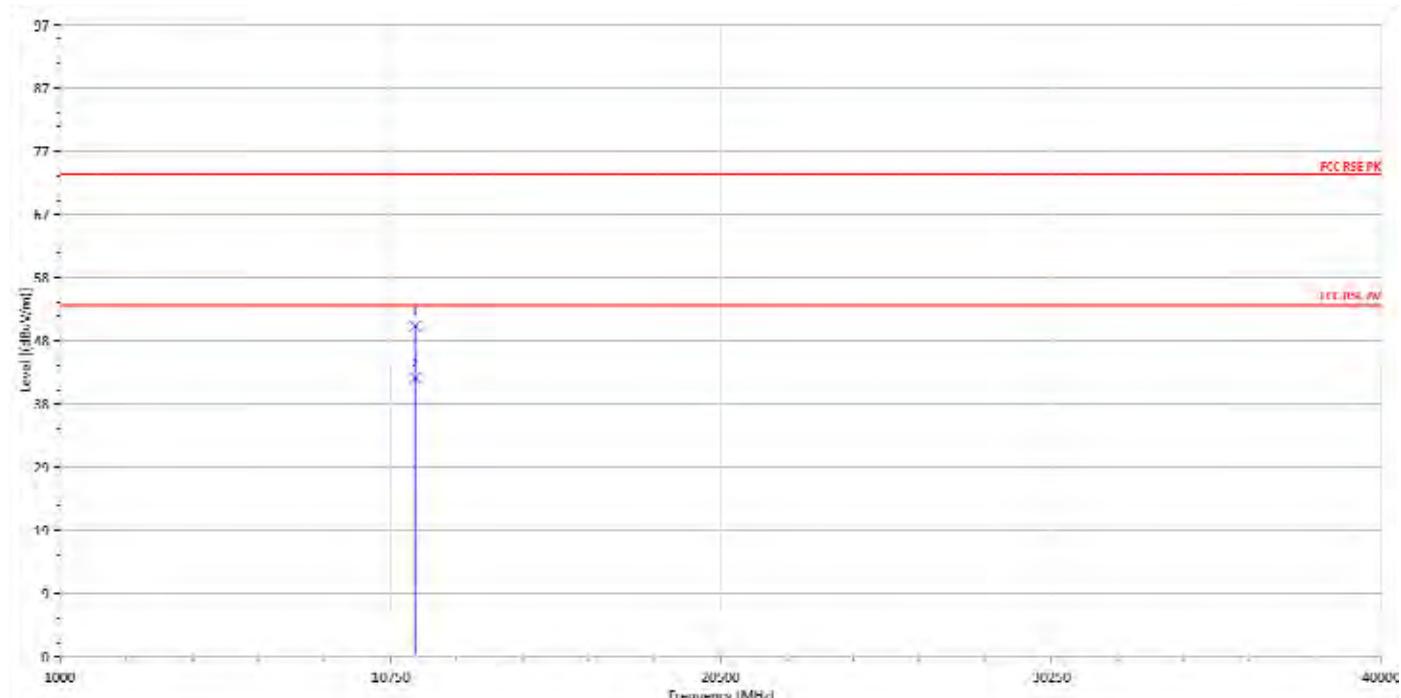
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Radiated Emission Measurement Result

802.11ac_VHT20, 5725~5850 MHz

Operation Mode :	802.11ac20	Test Date :	2016/10/13
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



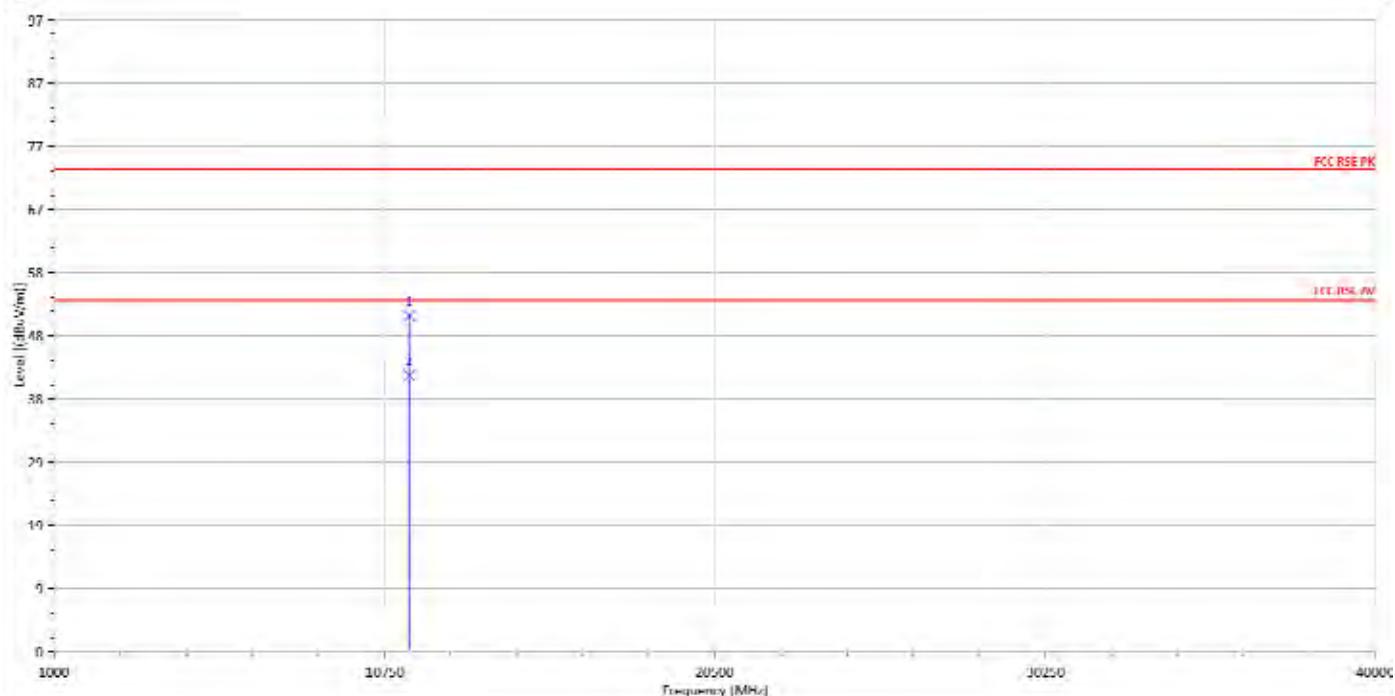
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	H	Peak	30.05	20.70	50.75	74	-23.25
11490.00	H	Average	22.09	20.70	42.79	54	-11.21

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



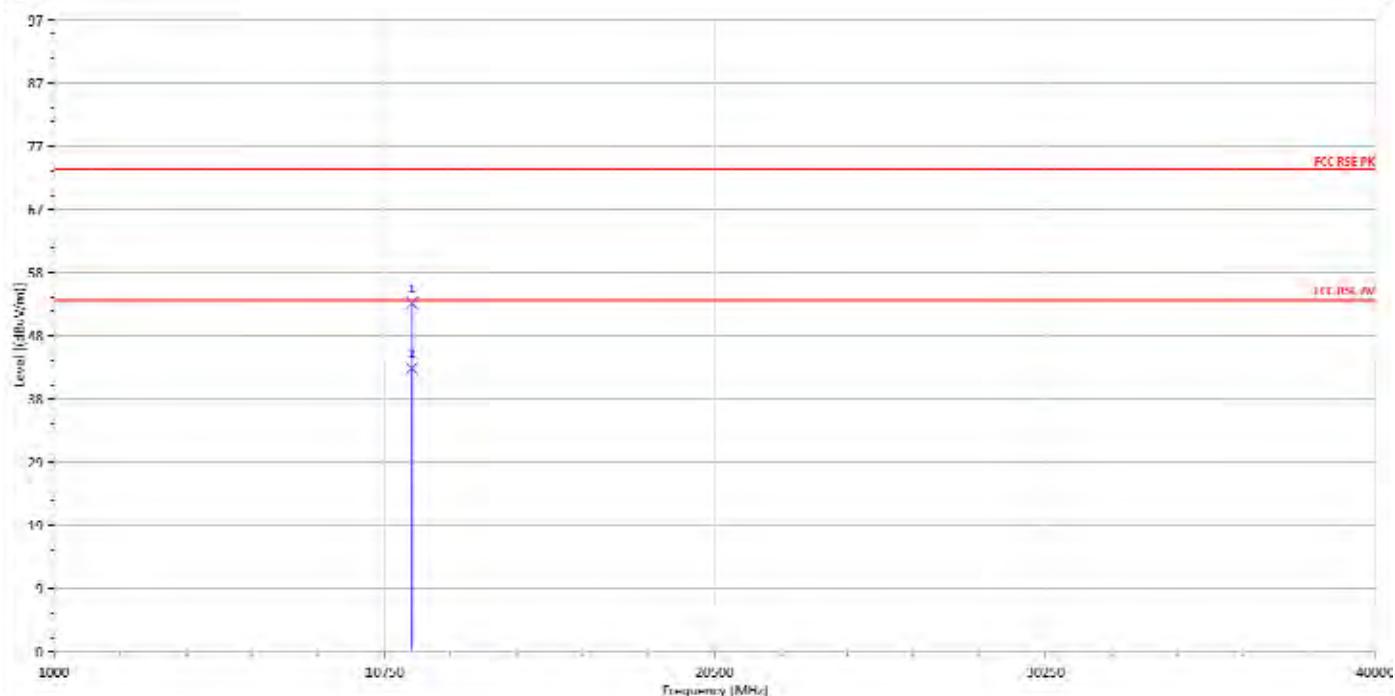
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	H	Peak	30.91	20.70	51.61	74	-22.39
11490.00	H	Average	21.62	20.70	42.32	54	-11.68

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



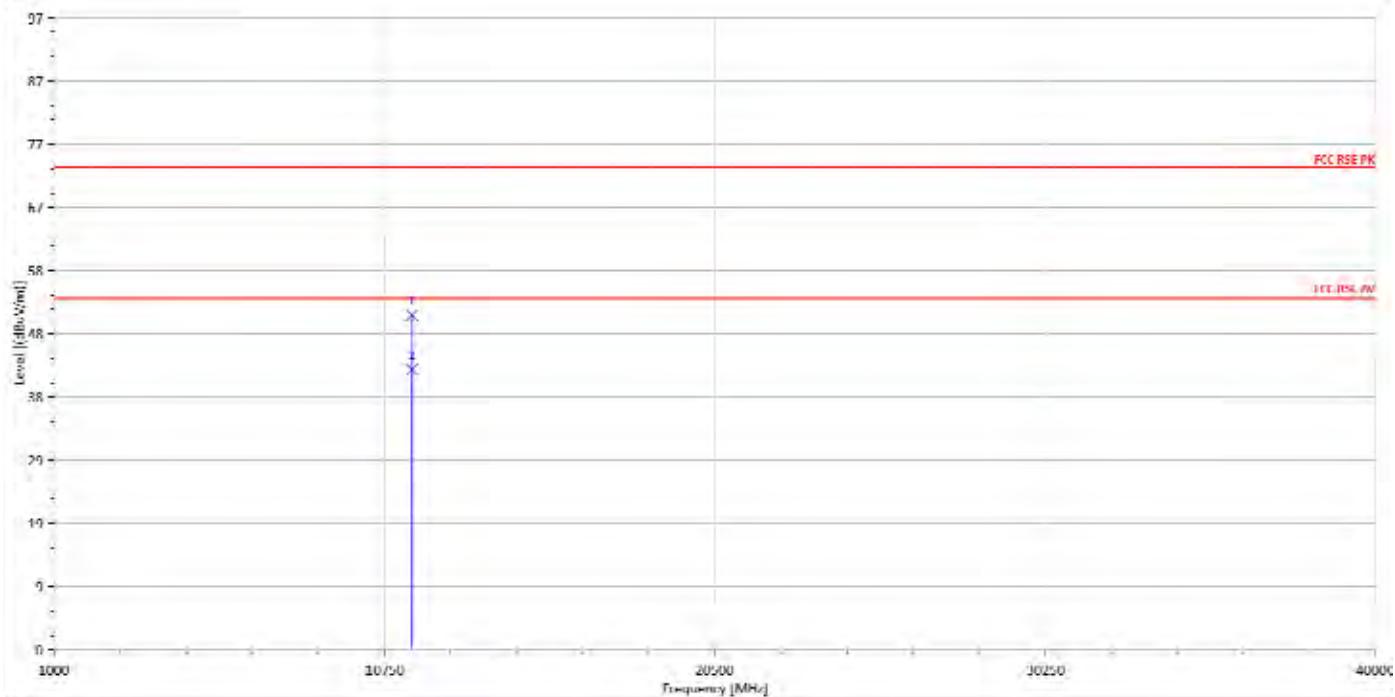
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	H	Peak	32.09	21.44	53.53	74	-20.47
11570.00	H	Average	22.03	21.44	43.47	54	-10.53

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



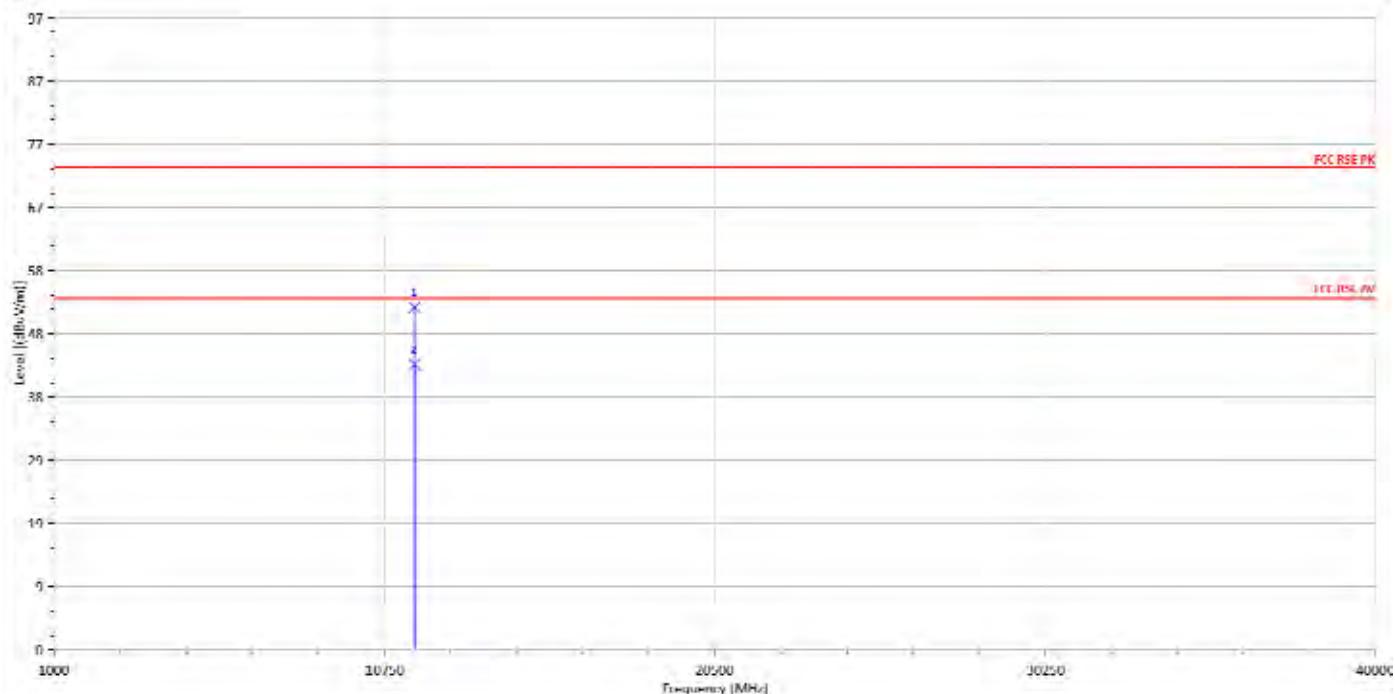
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	H	Peak	29.95	21.44	51.40	74	-22.60
11570.00	H	Average	21.52	21.44	42.96	54	-11.04

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



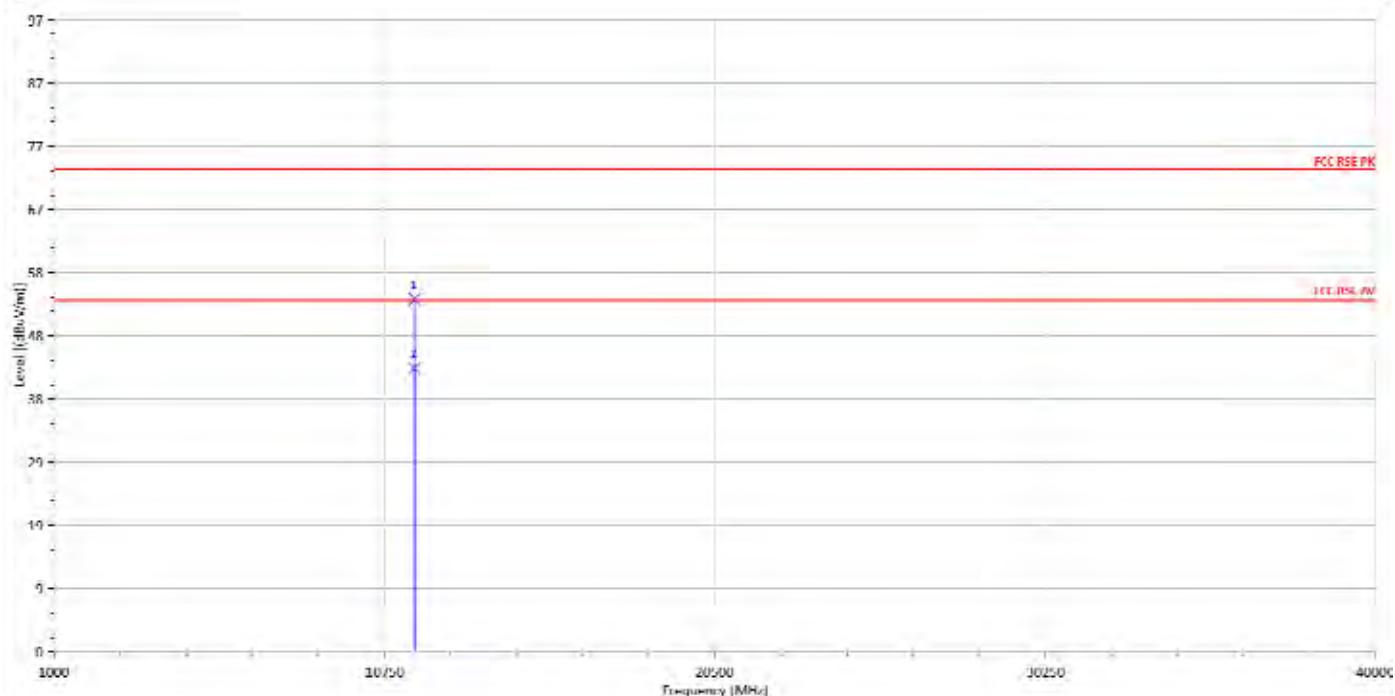
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	H	Peak	30.58	22.02	52.60	74	-21.40
11650.00	H	Average	21.73	22.02	43.75	54	-10.25

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Operation Mode : 802.11ac20 Test Date : 2016/10/13
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	H	Peak	32.11	22.02	54.13	74	-19.87
11650.00	H	Average	21.46	22.02	43.48	54	-10.52

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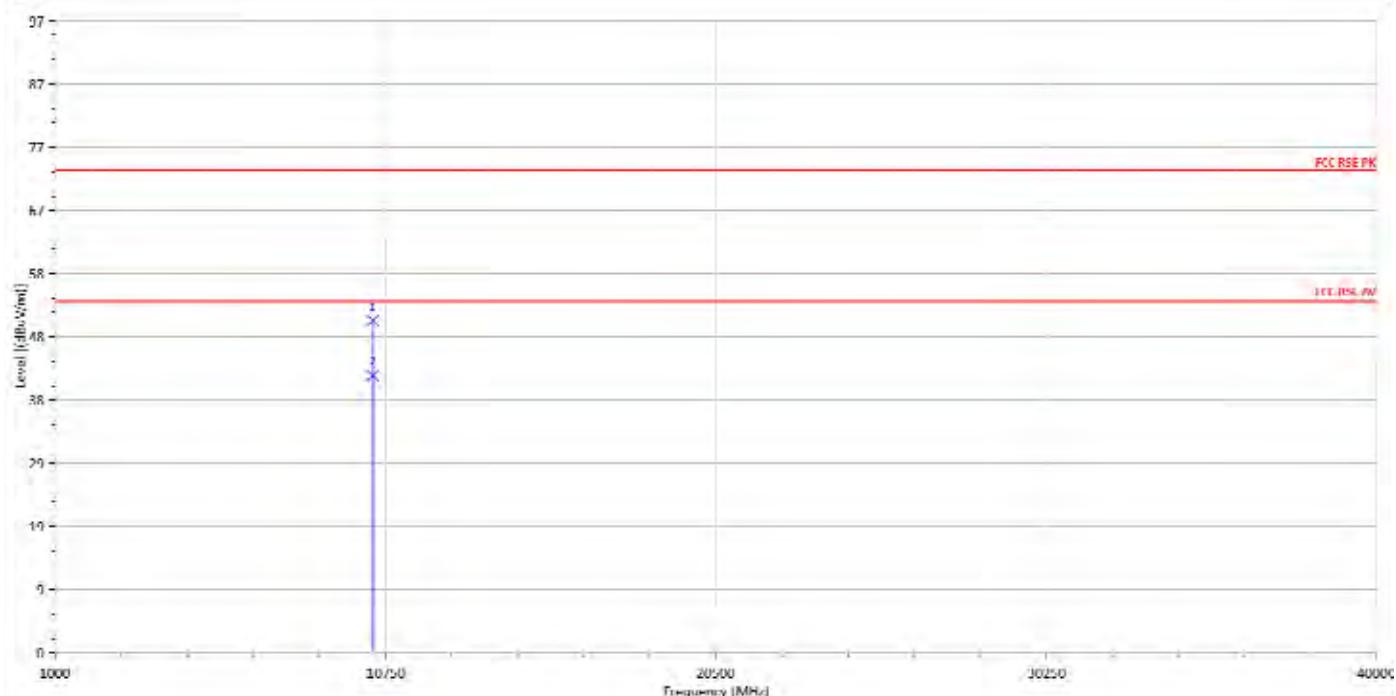
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Radiated Spurious Emission Measurement Result

802.11ac_VHT40, 5150~5250 MHz

Operation Mode : 802.11ac40 Test Date : 2016/10/13
Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



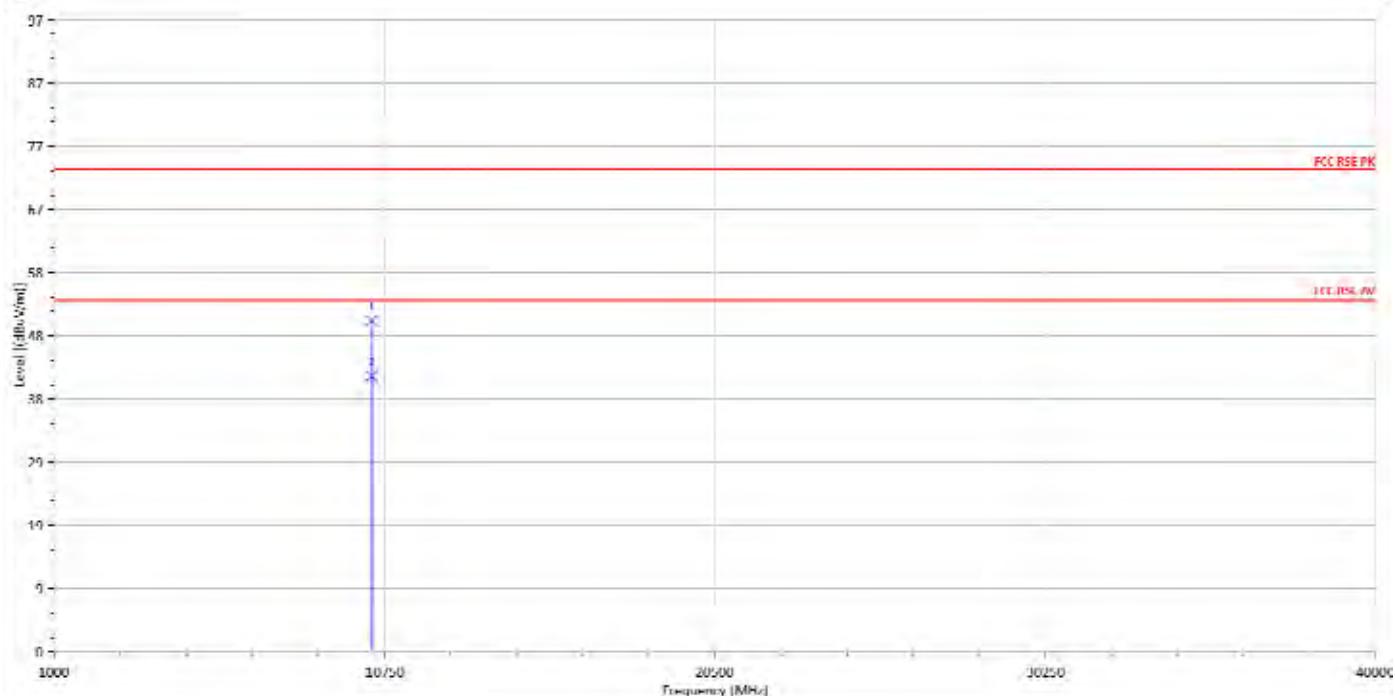
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
10380.00	H	Peak	30.06	20.95	51.01	74	-22.99
10380.00	H	Average	21.53	20.95	42.48	54	-11.52

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Operation Mode : 802.11ac40 Test Date : 2016/10/13
Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



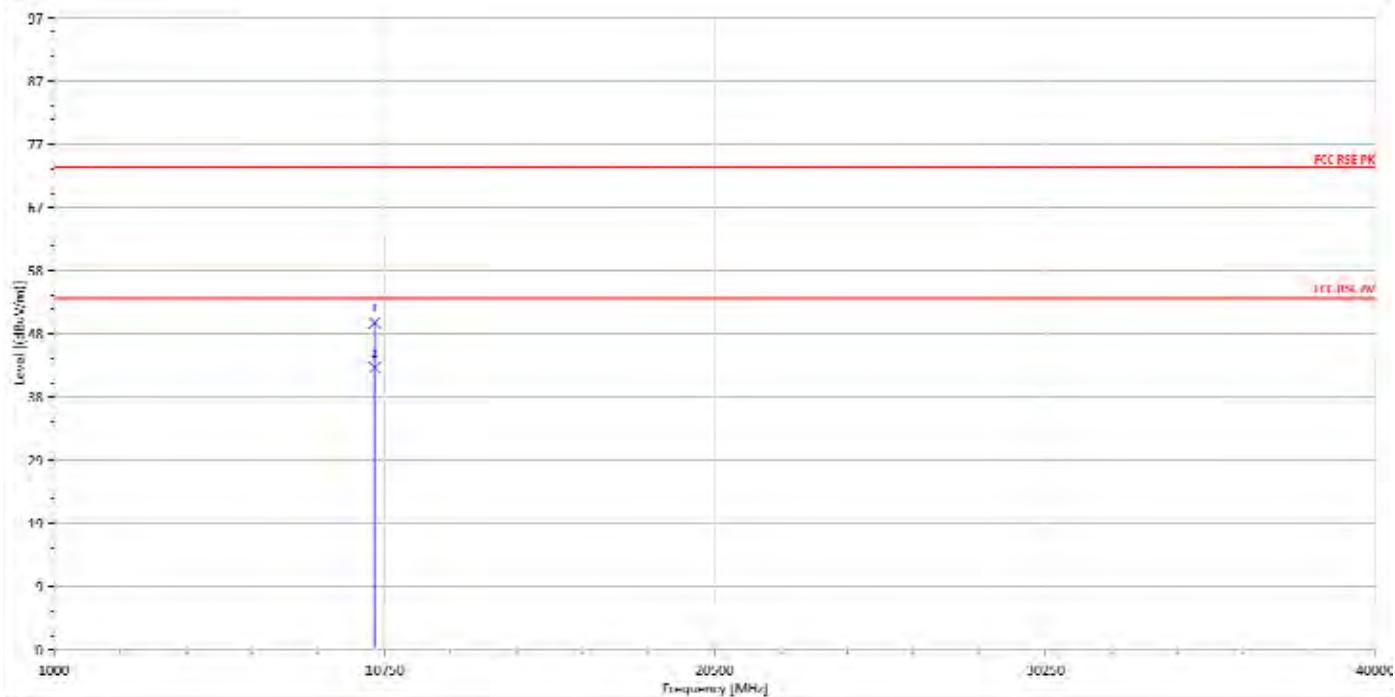
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.00	H	Peak	29.91	20.95	50.87	74	-23.13
10380.00	H	Average	21.29	20.95	42.24	54	-11.76

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Operation Mode : 802.11ac40 Test Date : 2016/10/13
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



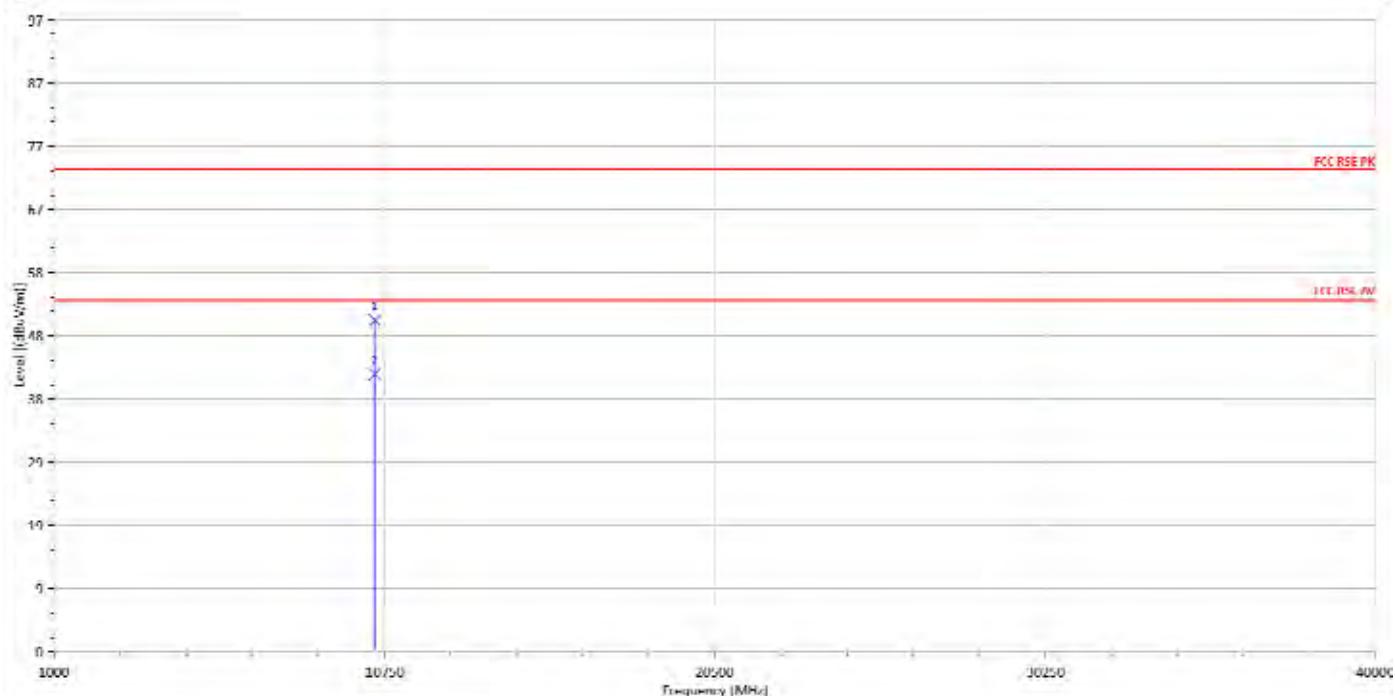
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	H	Peak	29.26	20.95	50.21	74	-23.79
10460.00	H	Average	22.30	20.95	43.25	54	-10.75

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Operation Mode : 802.11ac40 Test Date : 2016/10/13
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	H	Peak	29.99	20.95	50.94	74	-23.06
10460.00	H	Average	21.59	20.95	42.54	54	-11.46

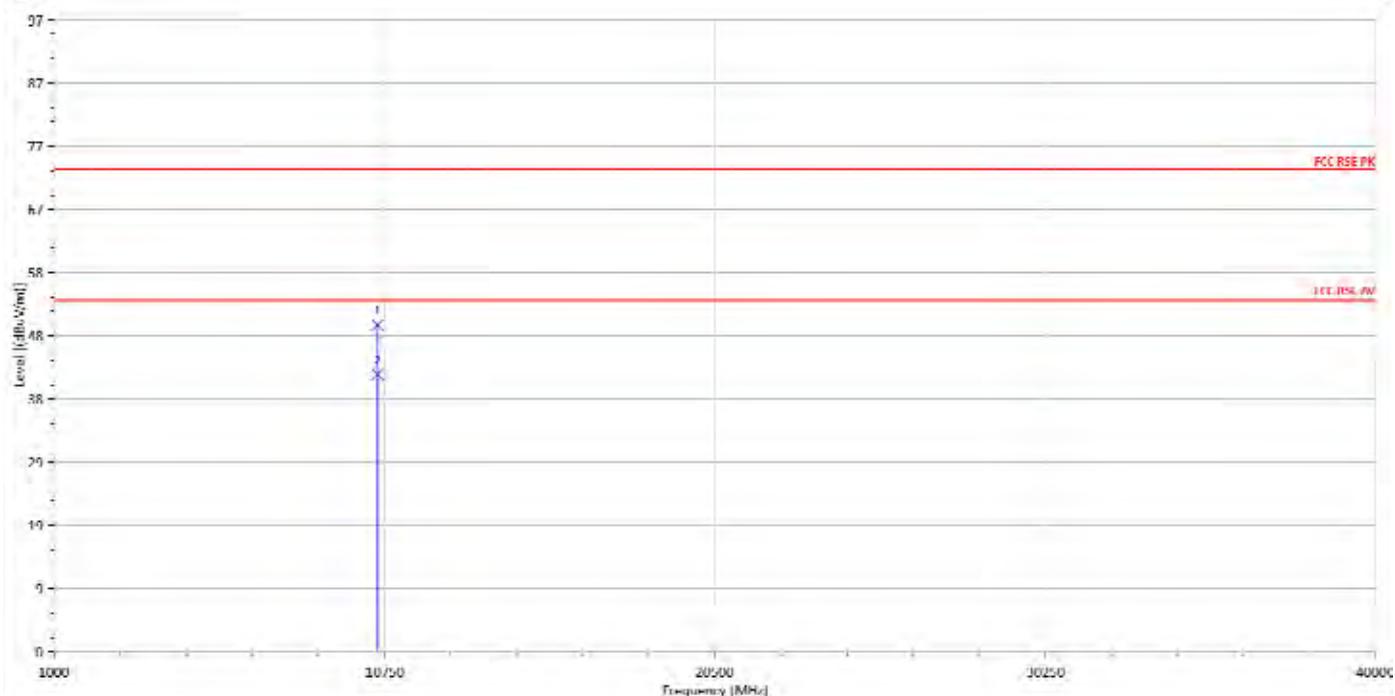
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Radiated Spurious Emission Measurement Result**802.11ac_VHT40, 5250~5350 MHz**

Operation Mode : 802.11ac40 Test Date : 2016/10/13
Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



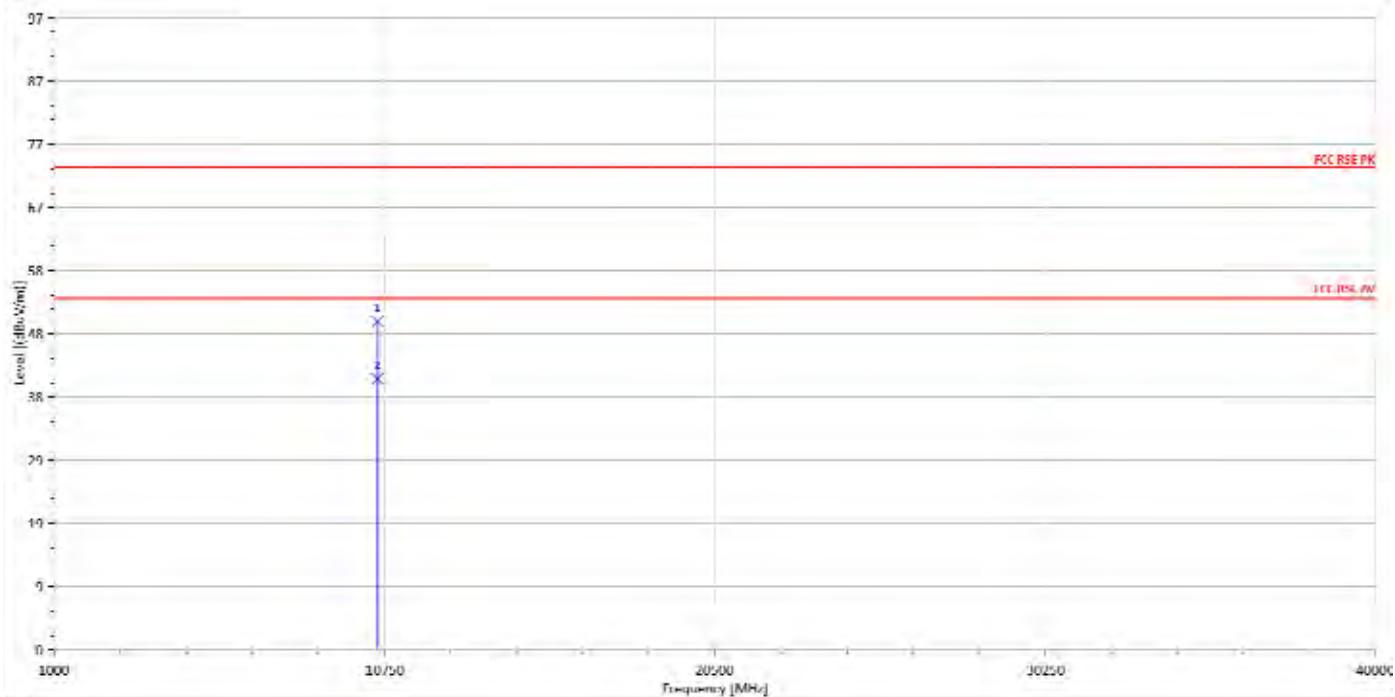
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.00	H	Peak	30.11	20.06	50.17	74	-23.83
10540.00	H	Average	22.45	20.06	42.51	54	-11.49

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Operation Mode : 802.11ac40 Test Date : 2016/10/13
 Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



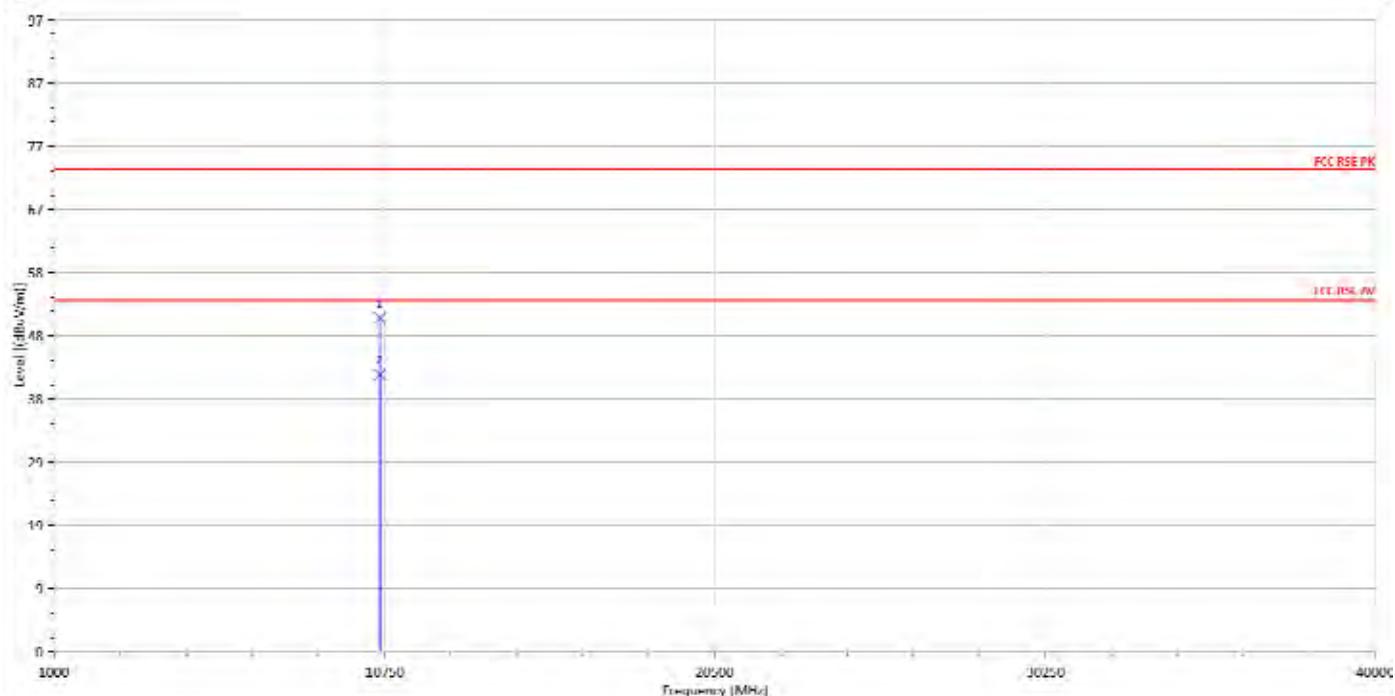
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.00	H	Peak	30.33	20.06	50.39	74	-23.61
10540.00	H	Average	21.43	20.06	41.49	54	-12.51

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Operation Mode : 802.11ac40 Test Date : 2016/10/13
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



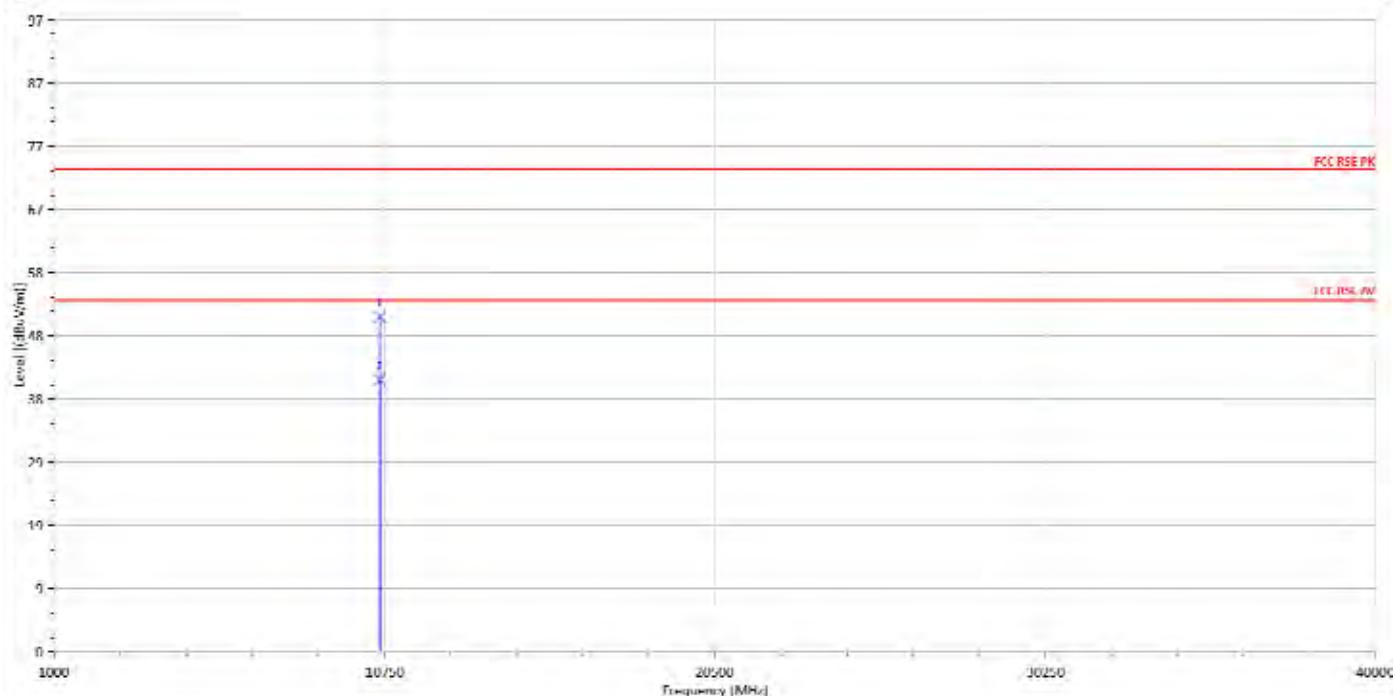
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10620.00	H	Peak	30.92	20.29	51.21	74	-22.79
10620.00	H	Average	22.21	20.29	42.50	54	-11.50

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Operation Mode : 802.11ac40 Test Date : 2016/10/13
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10620.00	H	Peak	31.15	20.29	51.44	74	-22.56
10620.00	H	Average	21.36	20.29	41.65	54	-12.35

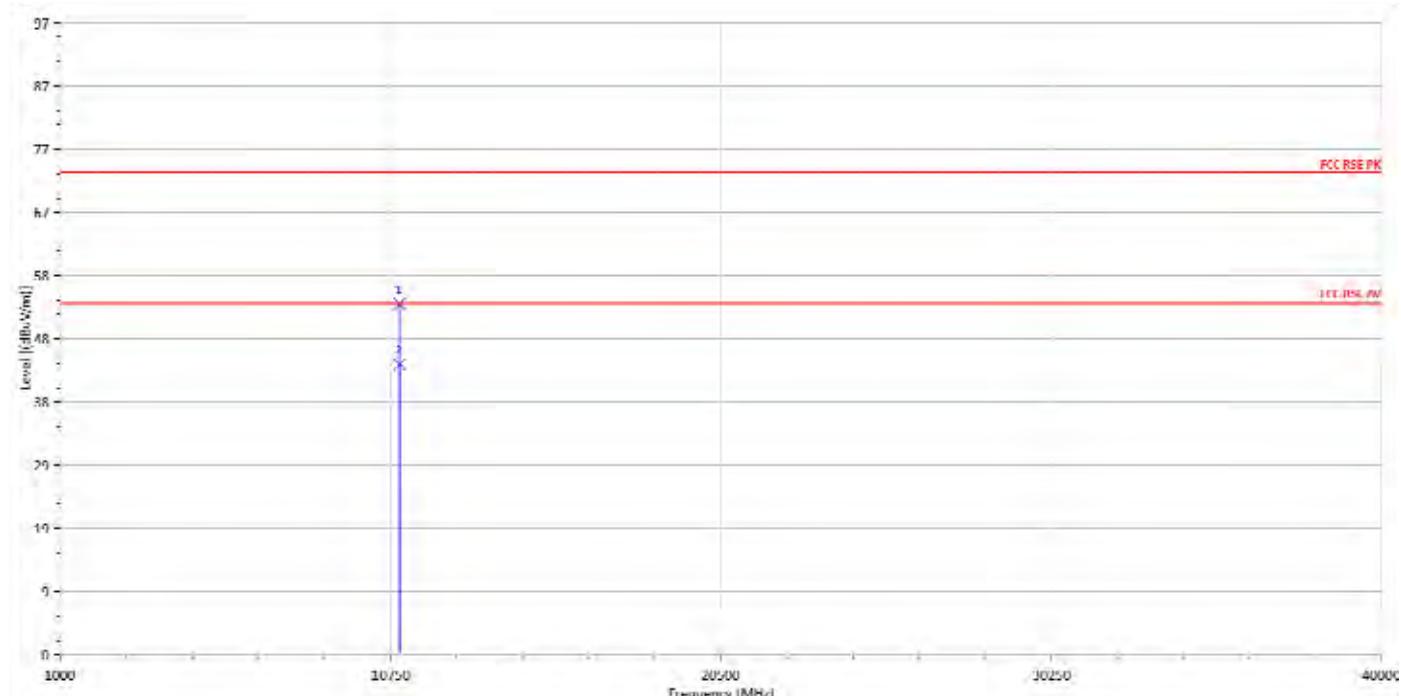
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Radiated Spurious Emission Measurement Result**802.11ac_VHT40, 5470~5725 MHz**

Operation Mode : 802.11ac40 Test Date : 2016/10/13
Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



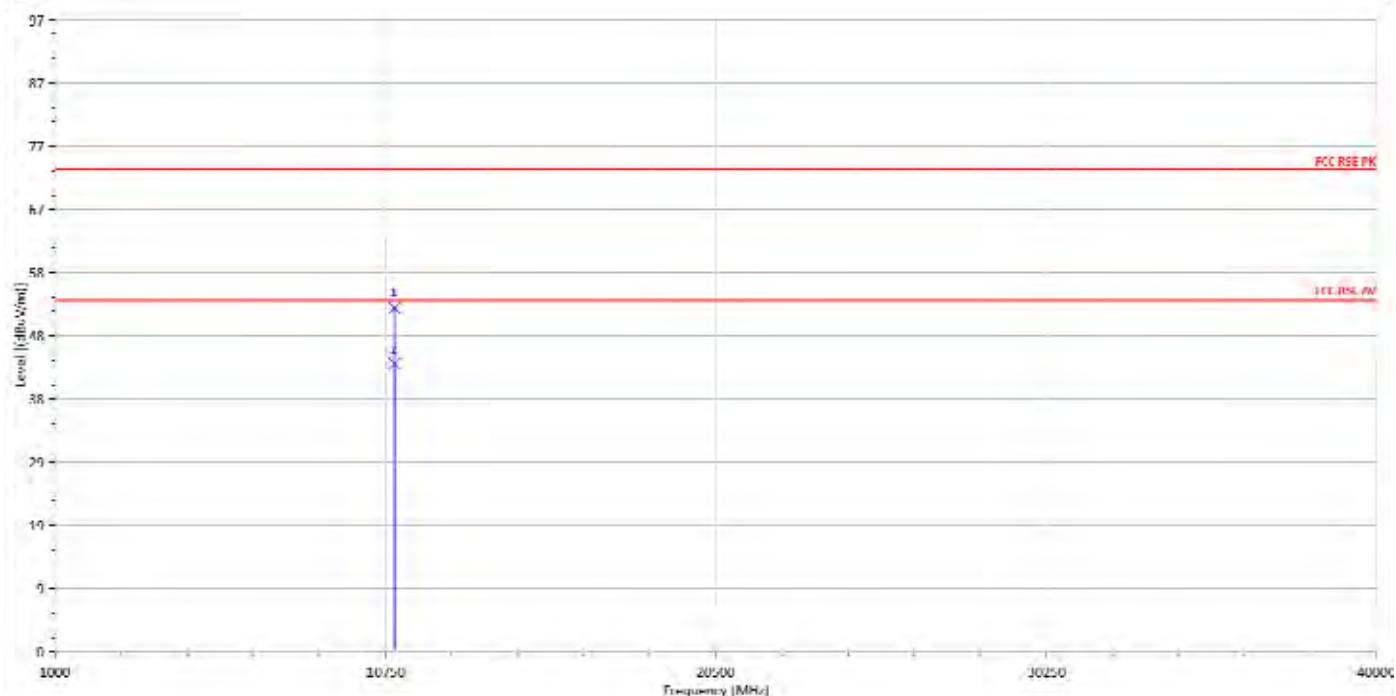
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11020.00	H	Peak	30.93	22.90	53.83	74	-20.17
11020.00	H	Average	21.65	22.90	44.55	54	-9.45

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Operation Mode : 802.11ac40 Test Date : 2016/10/13
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



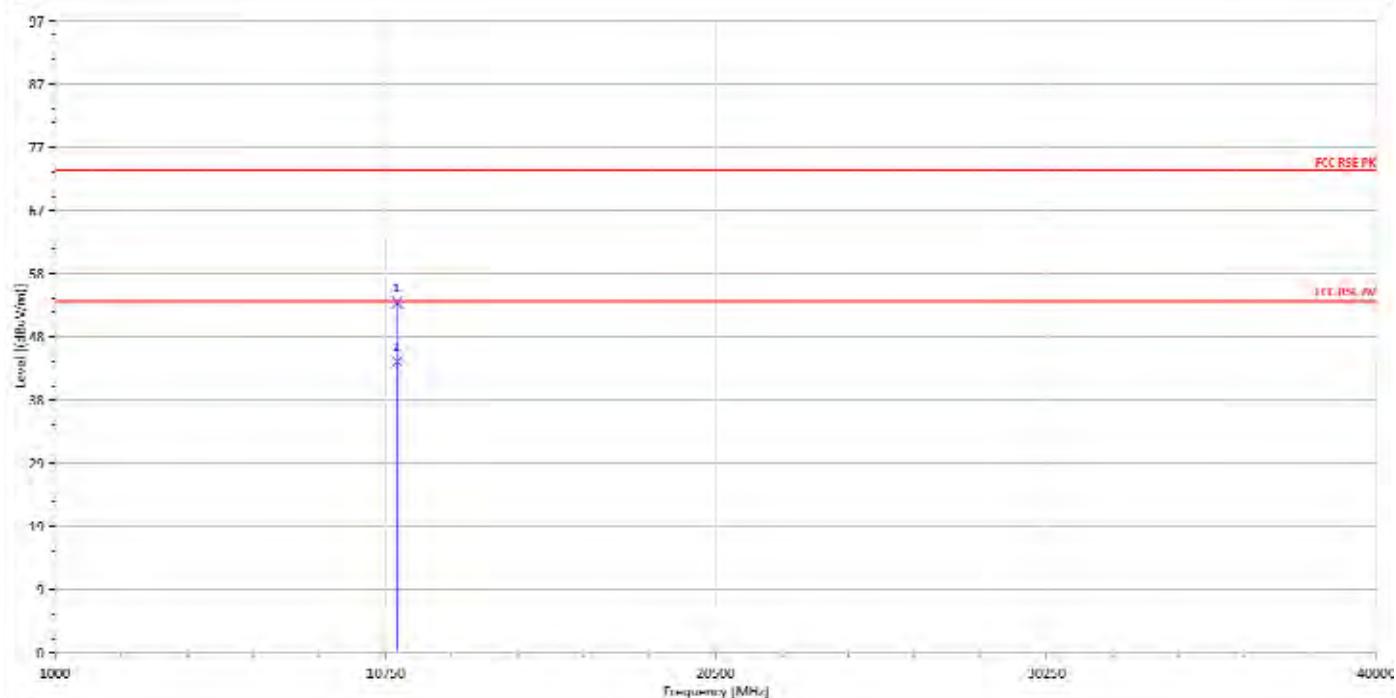
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	H	Peak	29.91	22.90	52.81	74	-21.19
11020.00	H	Average	21.26	22.90	44.16	54	-9.84

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Operation Mode : 802.11ac40 Test Date : 2016/10/13
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.00	H	Peak	30.55	23.16	53.72	74	-20.28
11100.00	H	Average	21.48	23.16	44.64	54	-9.36

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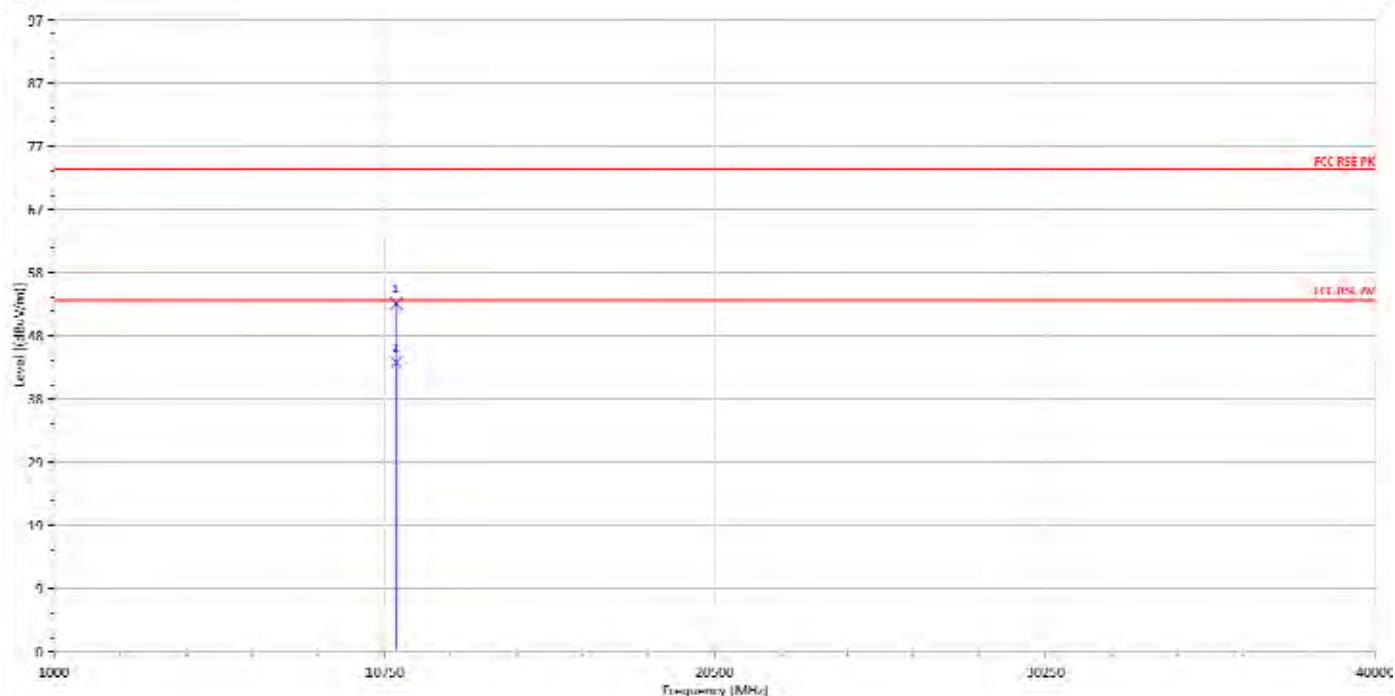
t (886-2) 2299-3279

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Operation Mode : 802.11ac40 Test Date : 2016/10/13
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



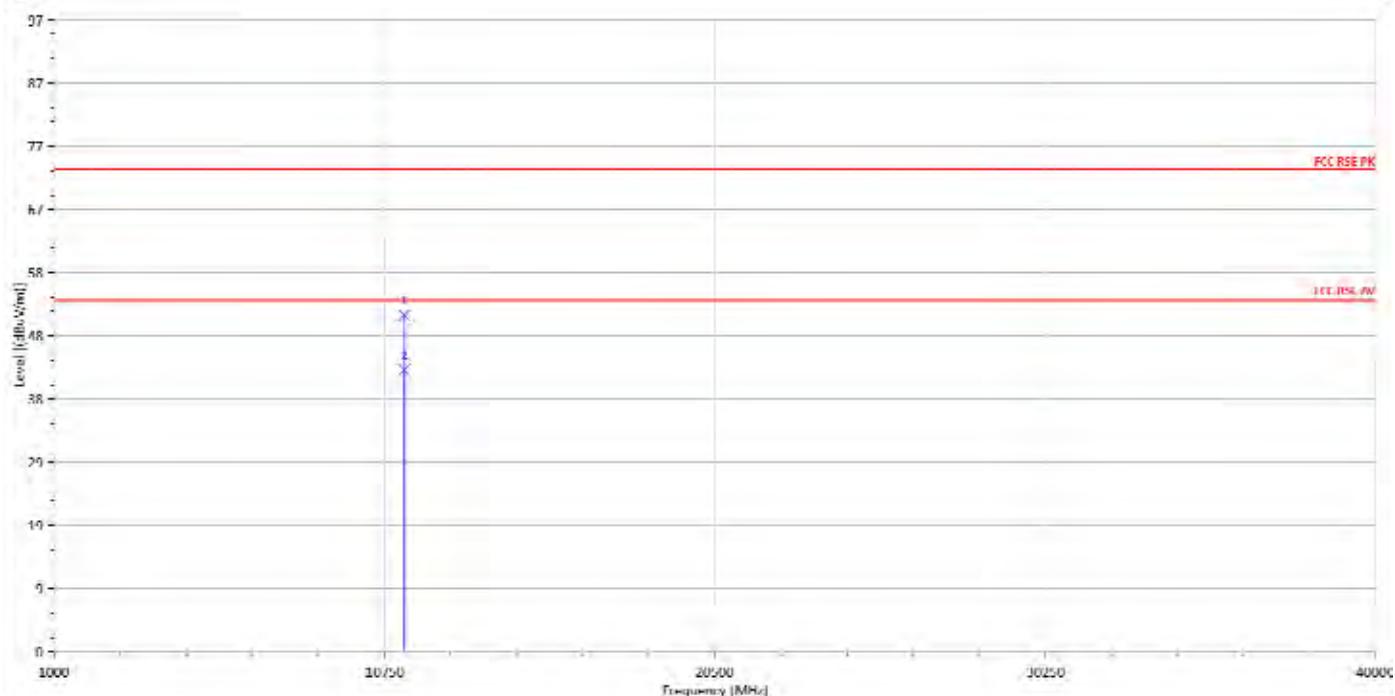
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	H	Peak	30.27	23.16	53.44	74	-20.56
11100.00	H	Average	21.22	23.16	44.38	54	-9.62

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Operation Mode : 802.11ac40 Test Date : 2016/10/13
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



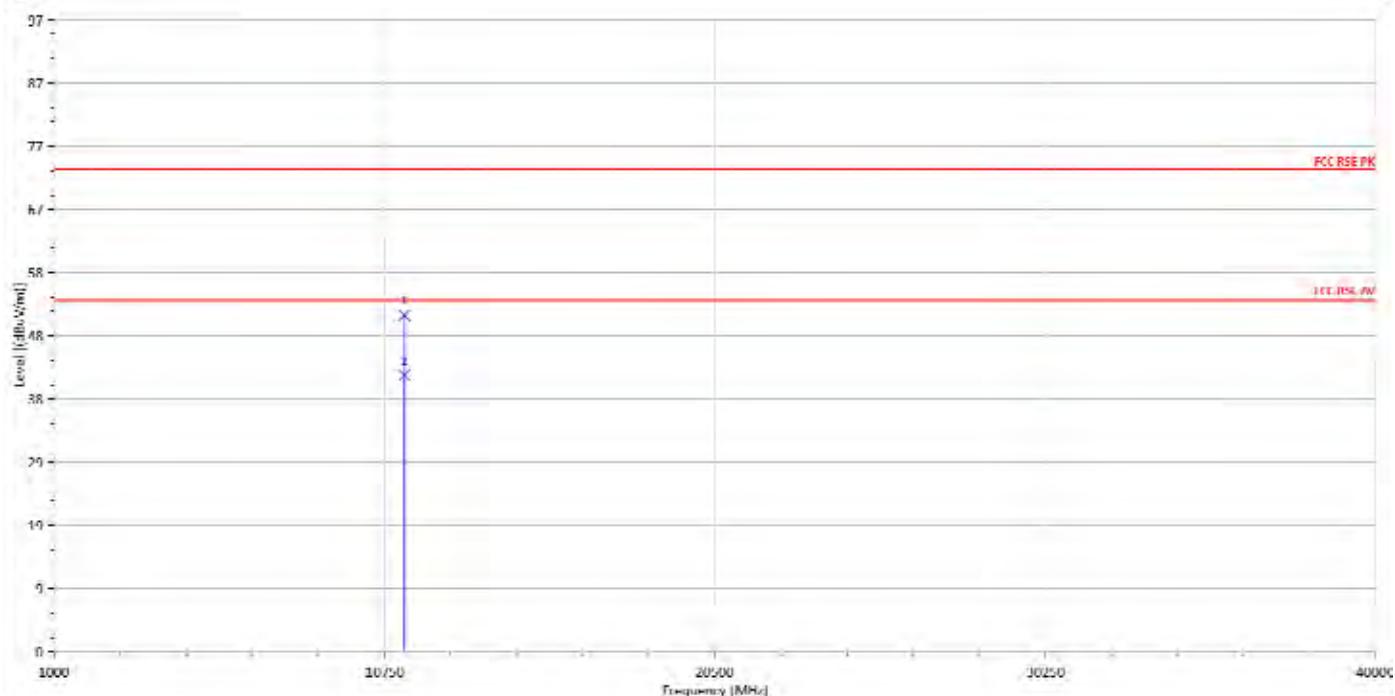
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	H	Peak	30.72	20.97	51.68	74	-22.32
11340.00	H	Average	22.24	20.97	43.21	54	-10.79

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Operation Mode : 802.11ac40 Test Date : 2016/10/13
Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11340.00	H	Peak	30.71	20.97	51.68	74	-22.32
11340.00	H	Average	21.43	20.97	42.40	54	-11.60

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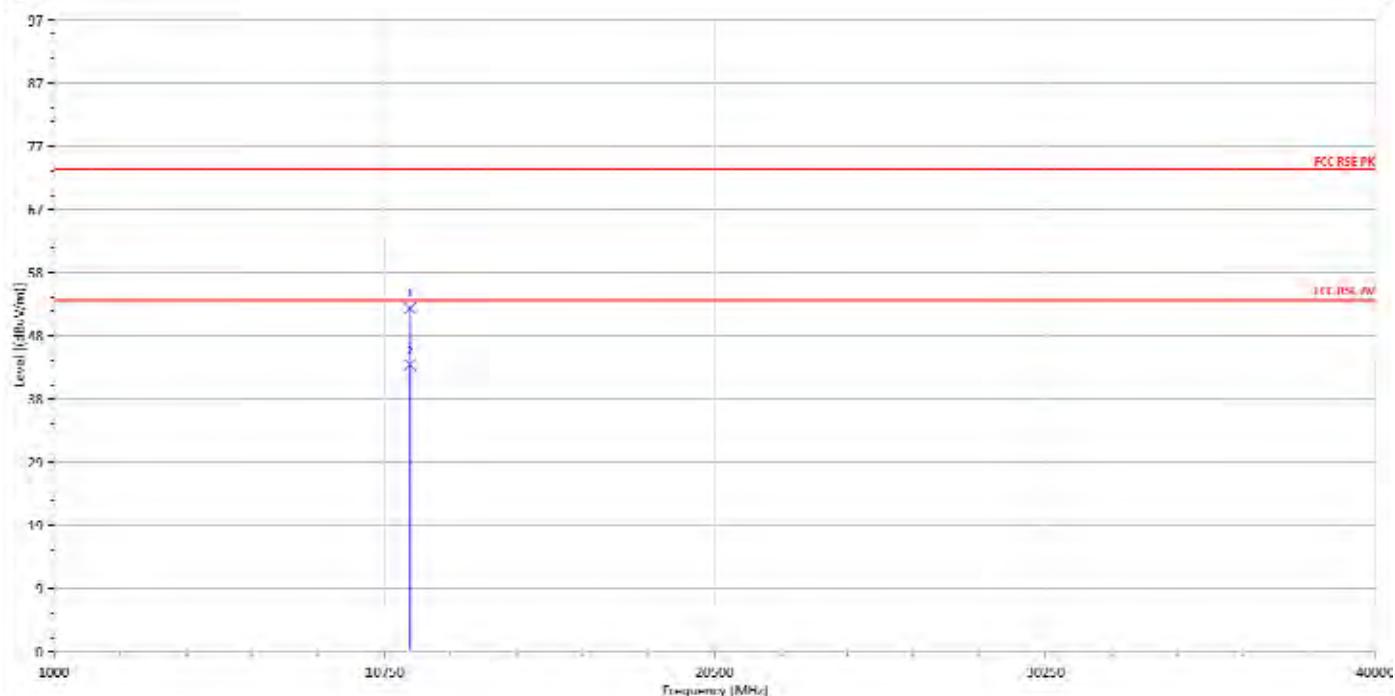
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Radiated Spurious Emission Measurement Result

802.11ac_VHT40, 5725~5850 MHz

Operation Mode : 802.11ac40 Test Date : 2016/10/13
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



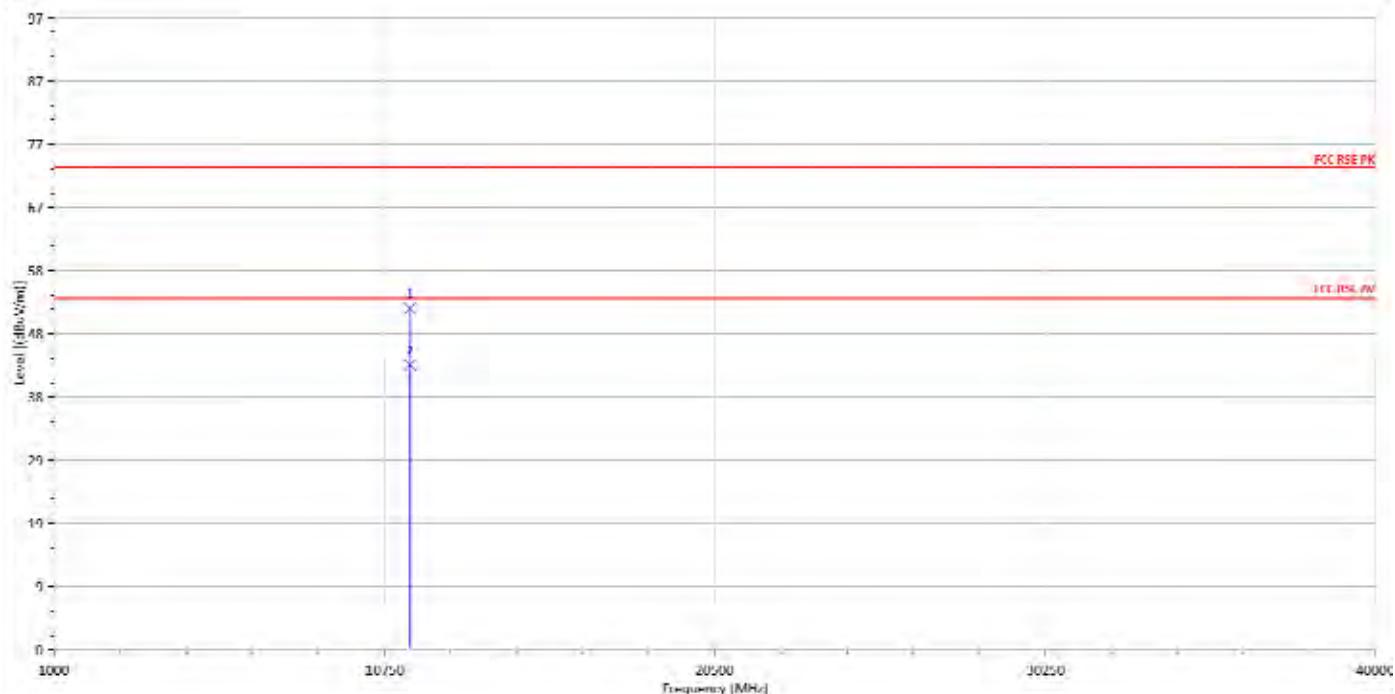
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.00	H	Peak	30.61	22.17	52.78	74	-21.22
11510.00	H	Average	21.84	22.17	44.01	54	-9.99

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Operation Mode : 802.11ac40 Test Date : 2016/10/13
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



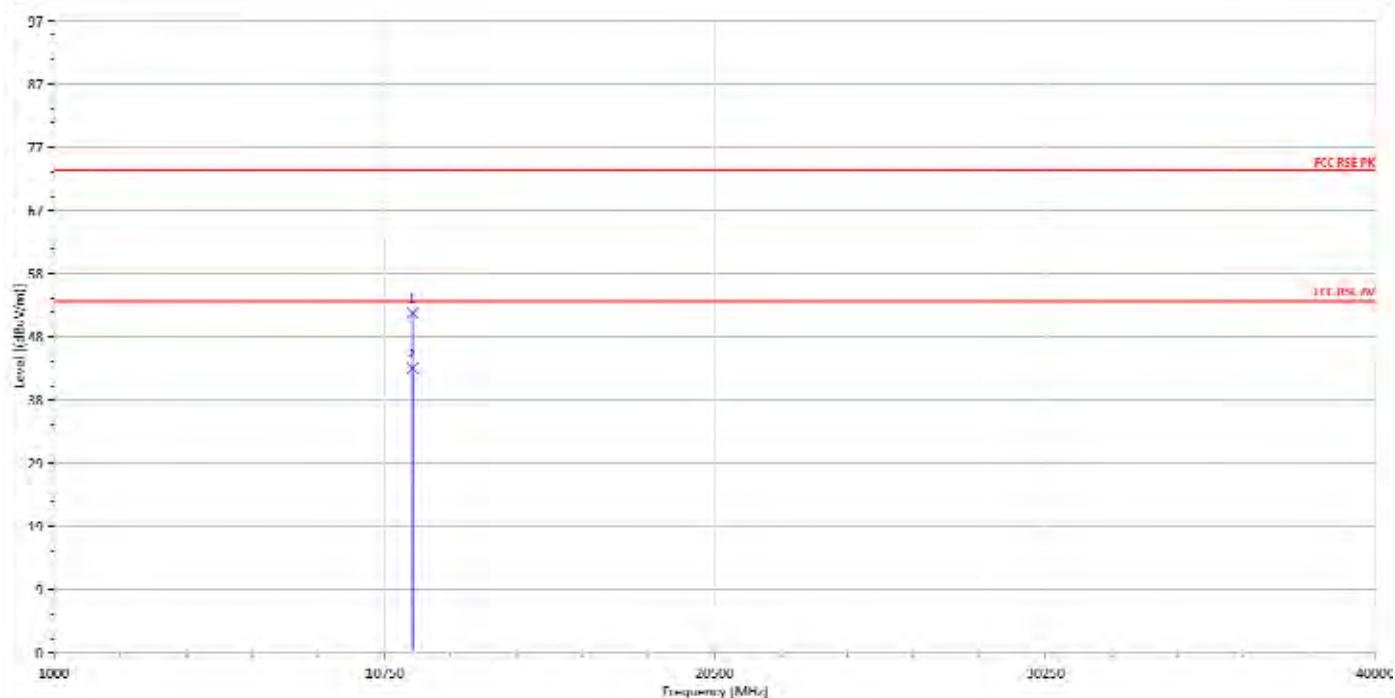
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11510.00	H	Peak	30.25	22.17	52.42	74	-21.58
11510.00	H	Average	21.50	22.17	43.67	54	-10.33

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Operation Mode : 802.11ac40 Test Date : 2016/10/13
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



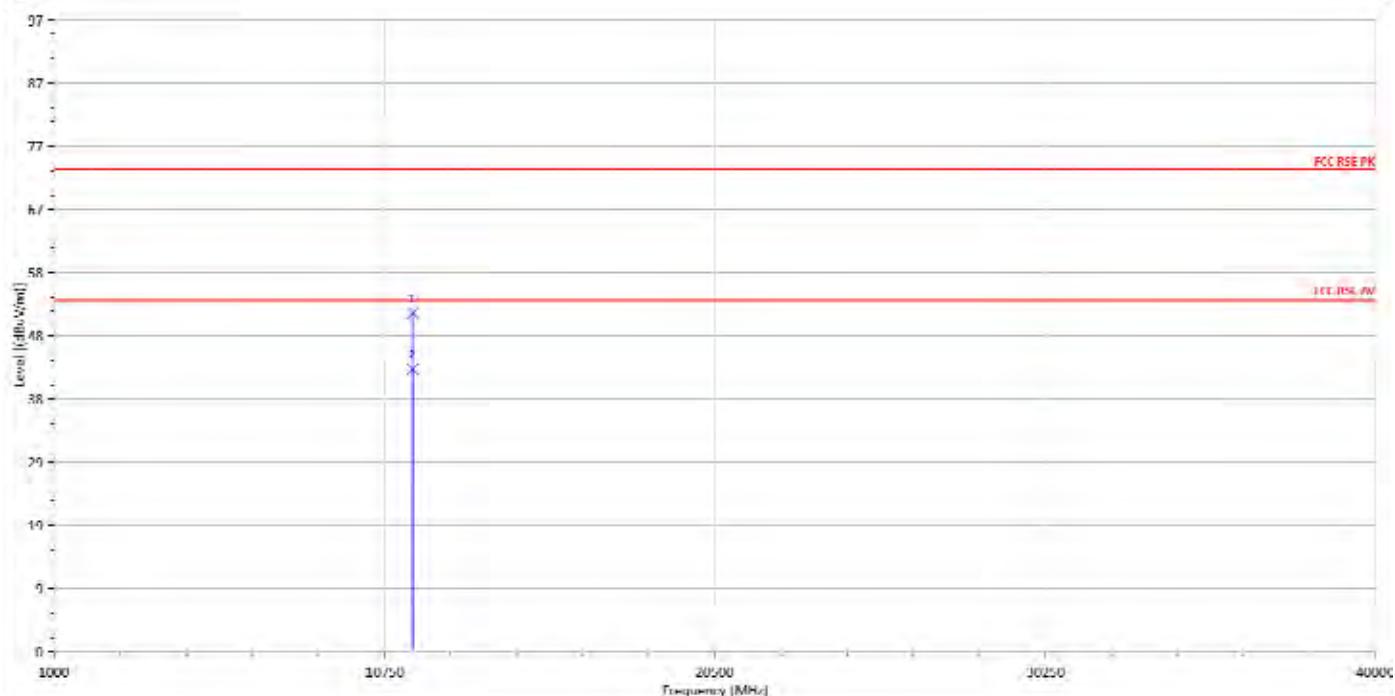
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11590.00	H	Peak	30.28	21.84	52.13	74	-21.87
11590.00	H	Average	21.77	21.84	43.61	54	-10.39

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Operation Mode : 802.11ac40 Test Date : 2016/10/13
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11590.00	H	Peak	30.19	21.84	52.03	74	-21.97
11590.00	H	Average	21.49	21.84	43.33	54	-10.67

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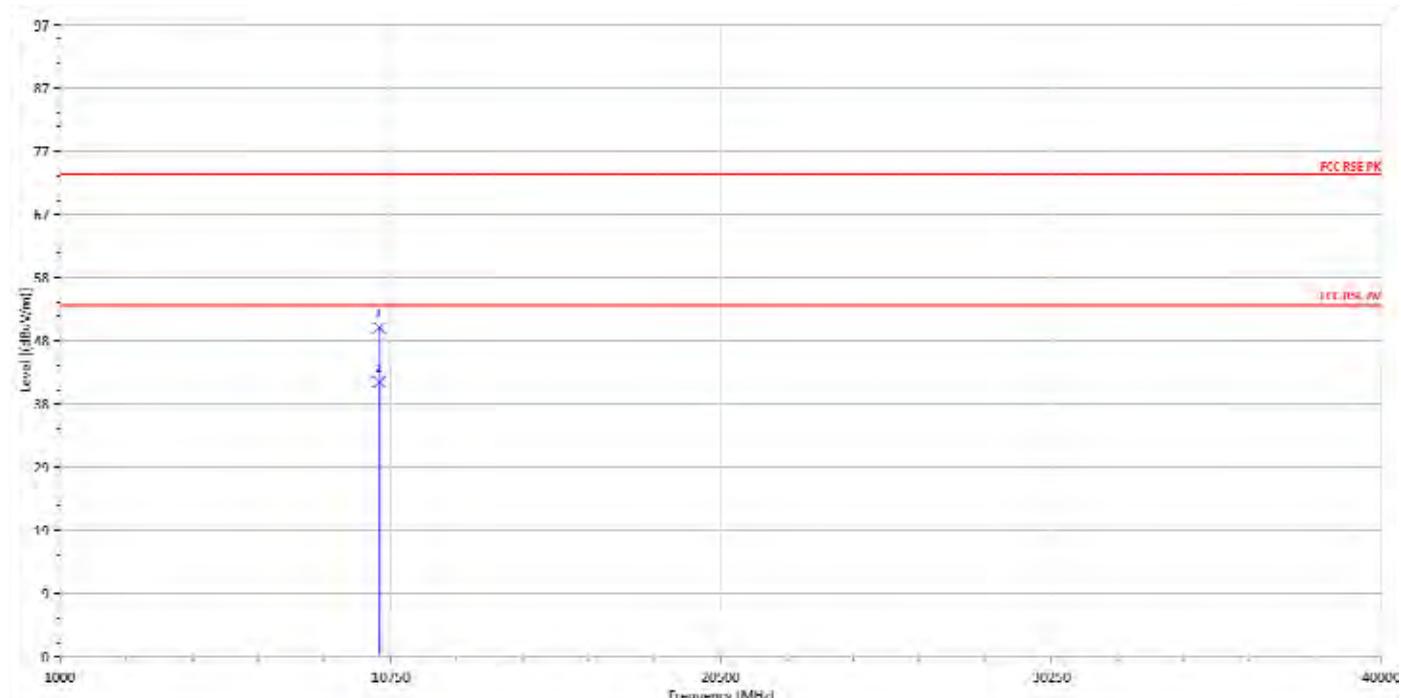
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Radiated Spurious Emission Measurement Result

802.11ac_VHT80, 5150~5250 MHz

Operation Mode : 802.11ac80 Test Date : 2016/10/13
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



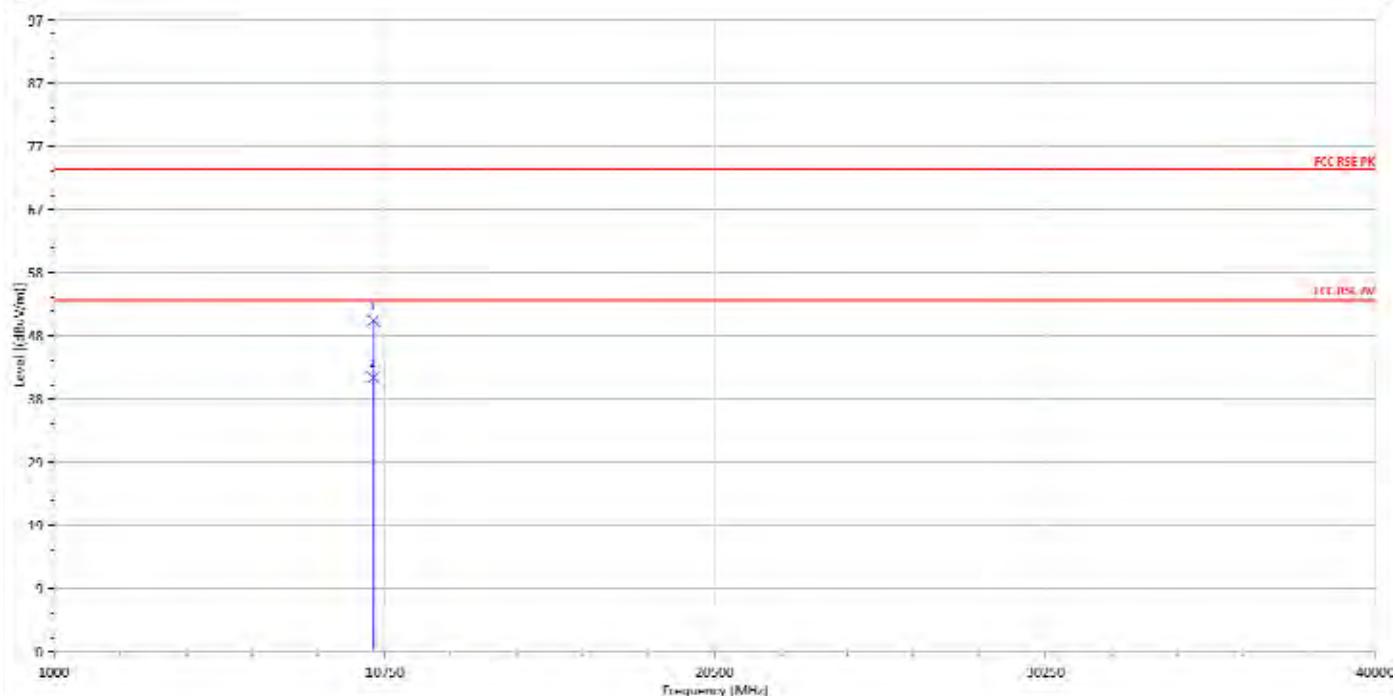
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10420.00	H	Peak	29.86	20.67	50.53	74	-23.47
10420.00	H	Average	21.43	20.67	42.10	54	-11.90

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Operation Mode : 802.11ac80 Test Date : 2016/10/13
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	H	Peak	30.20	20.67	50.86	74	-23.14
10420.00	H	Average	21.35	20.67	42.02	54	-11.98

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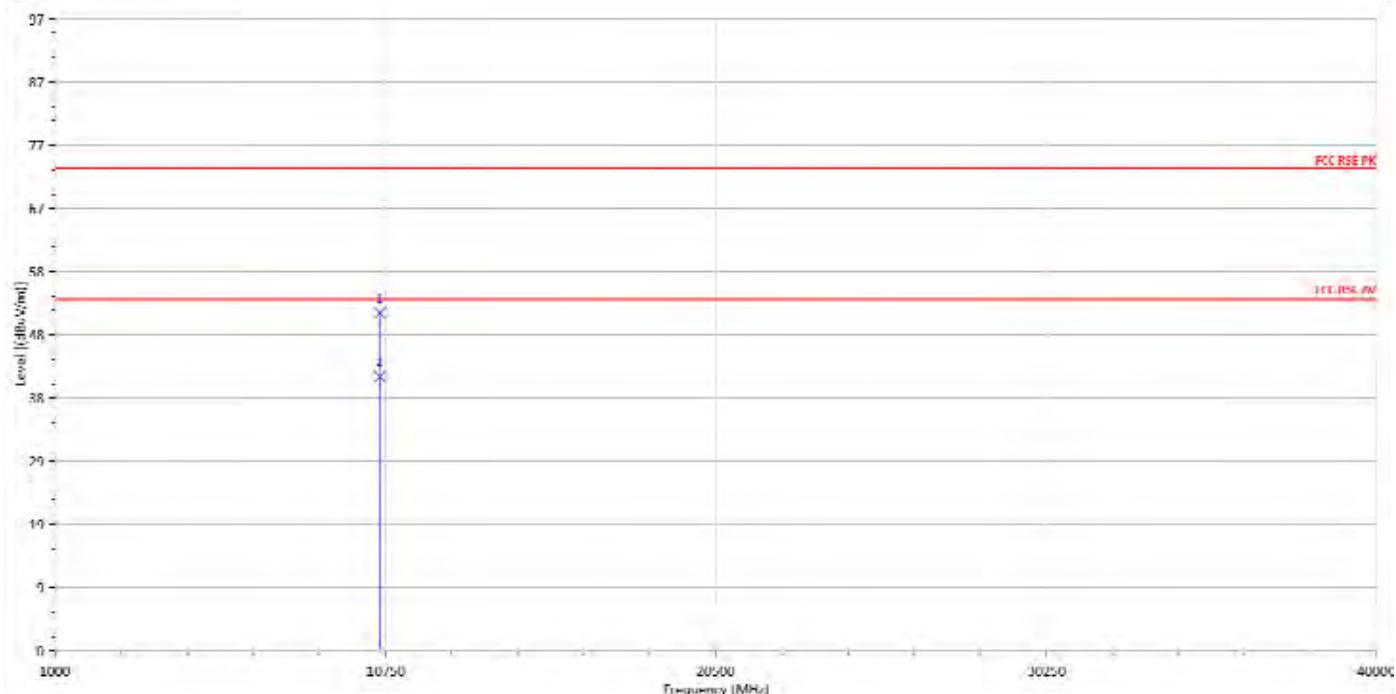
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Radiated Spurious Emission Measurement Result

802.11ac_VHT80, 5250~5350 MHz

Operation Mode : 802.11ac80 Test Date : 2016/10/13
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



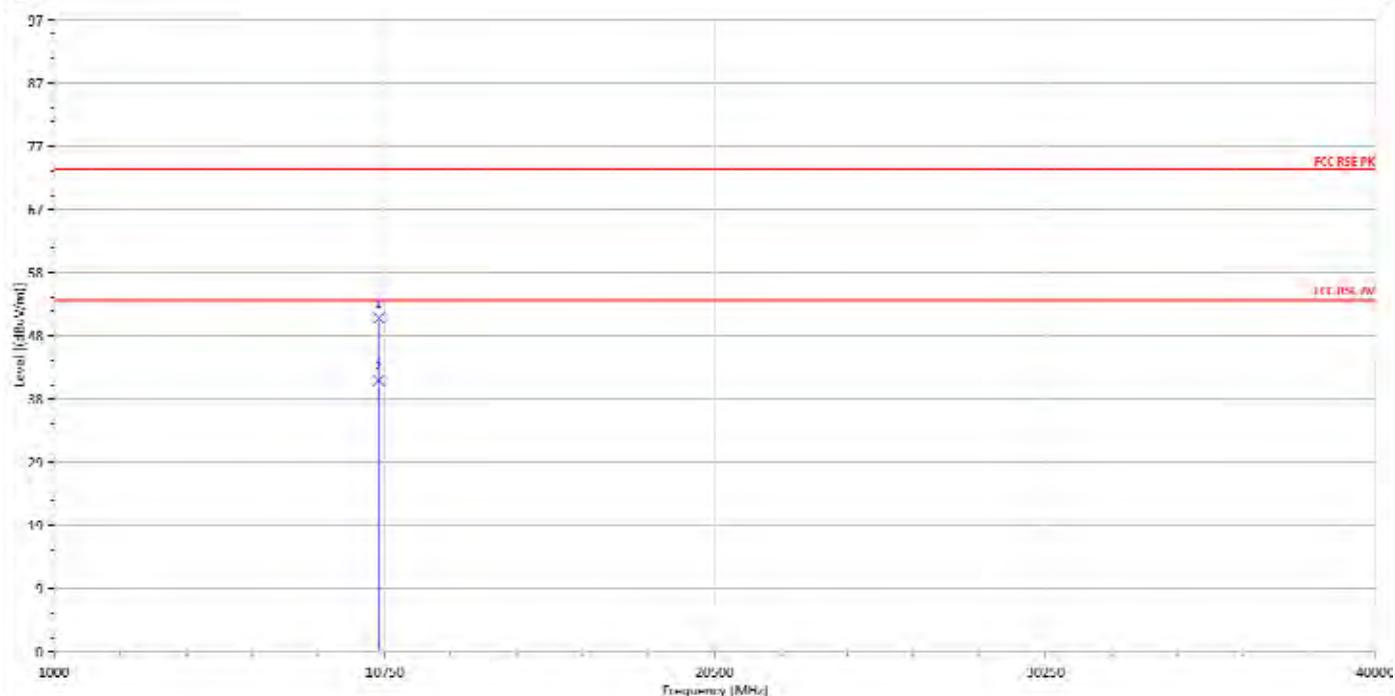
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10580.00	H	Peak	31.75	20.12	51.87	74	-22.13
10580.00	H	Average	21.87	20.12	41.99	54	-12.01

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Operation Mode : 802.11ac80 Test Date : 2016/10/13
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	H	Peak	31.11	20.12	51.23	74	-22.77
10580.00	H	Average	21.43	20.12	41.55	54	-12.45

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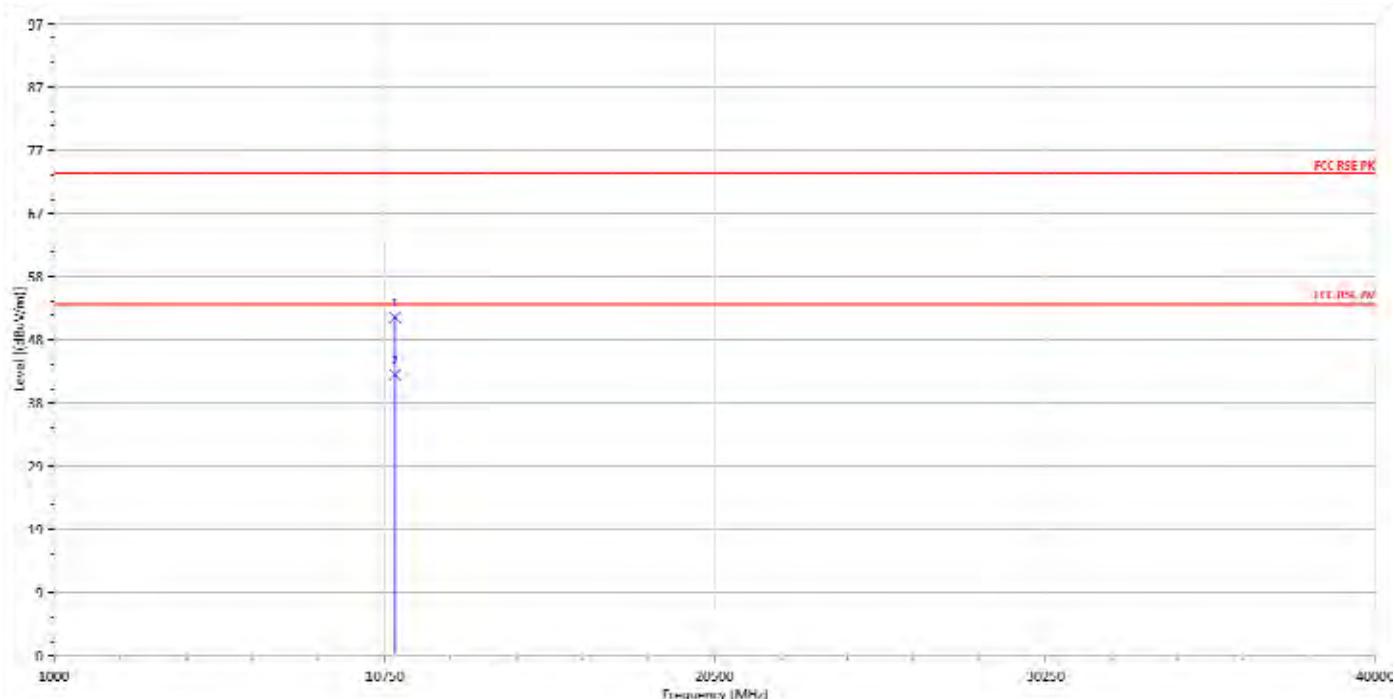
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Radiated Spurious Emission Measurement Result

802.11ac_VHT80, 5470~5725 MHz

Operation Mode : 802.11ac80 Test Date : 2016/10/13
Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



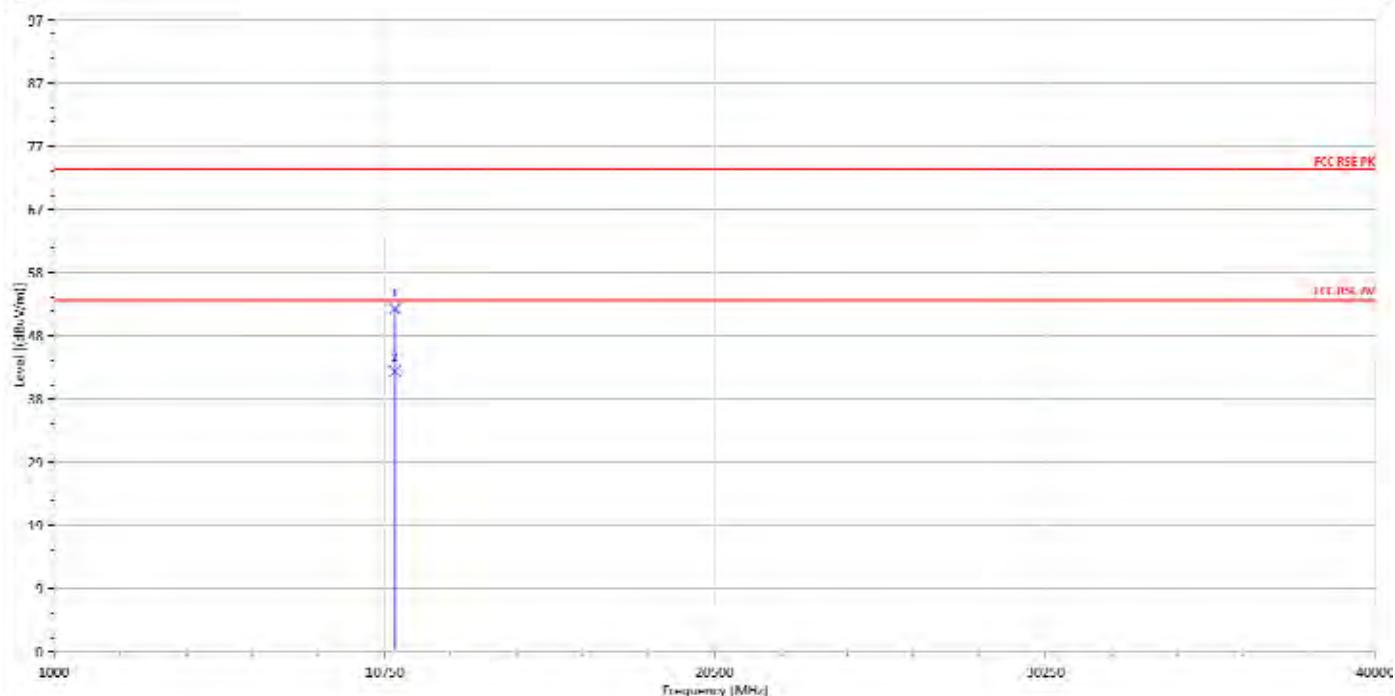
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11060.00	H	Peak	30.14	21.83	51.97	74	-22.03
11060.00	H	Average	21.26	21.83	43.09	54	-10.91

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Operation Mode : 802.11ac80 Test Date : 2016/10/13
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



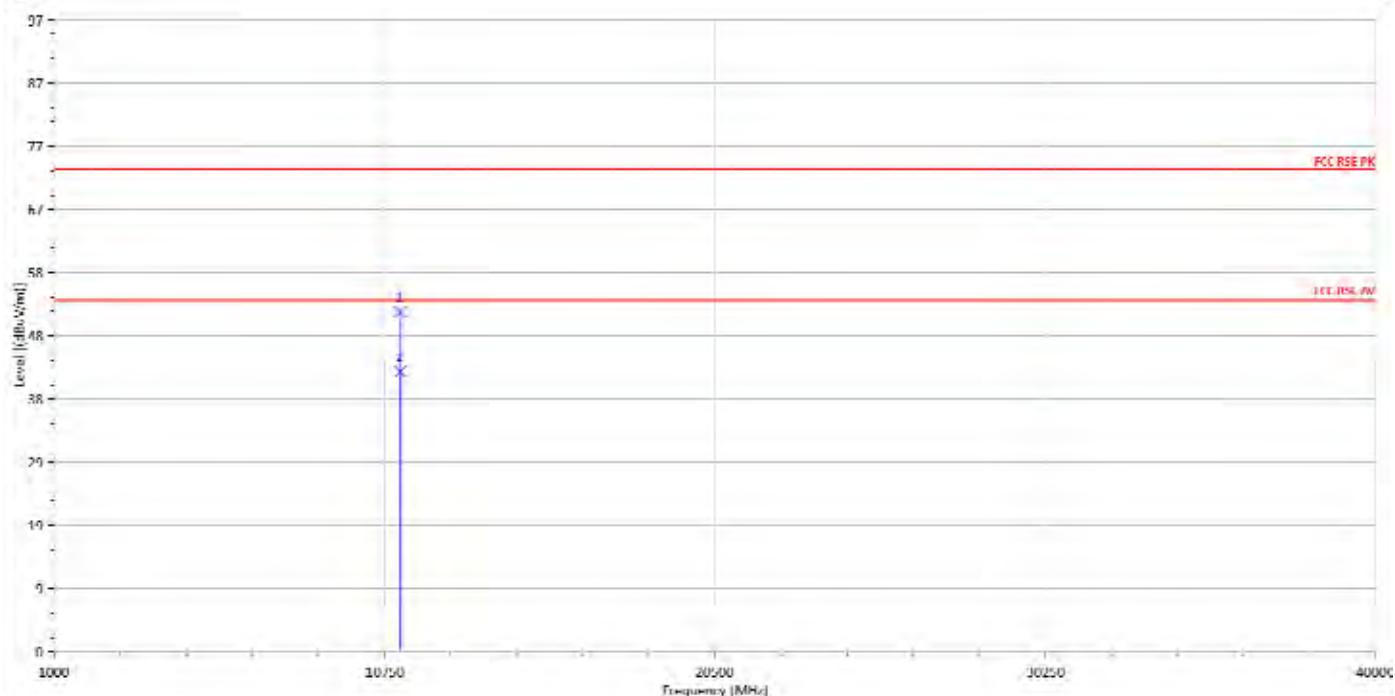
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11060.00	H	Peak	30.87	21.83	52.70	74	-21.30
11060.00	H	Average	21.13	21.83	42.96	54	-11.04

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Operation Mode : 802.11ac80 Test Date : 2016/10/13
 Fundamental Frequency : 5610 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



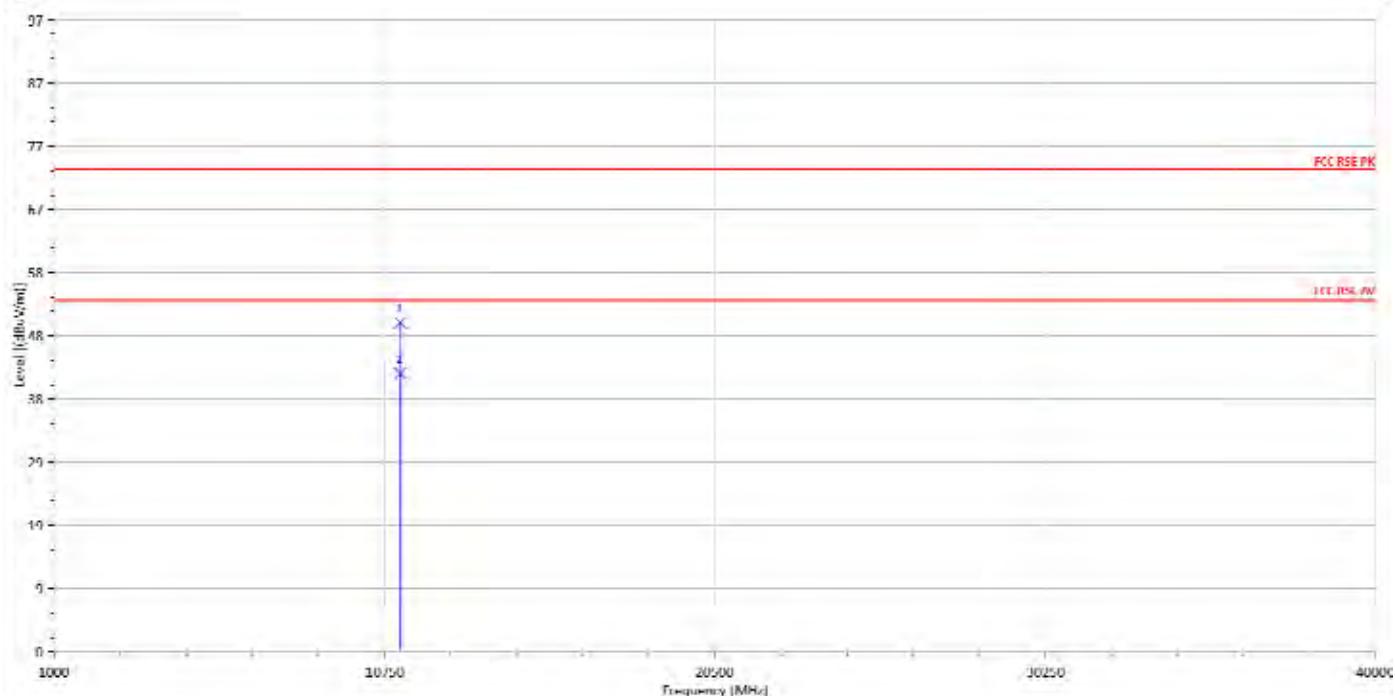
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	H	Peak	30.87	21.32	52.19	74	-21.81
11220.00	H	Average	21.64	21.32	42.96	54	-11.04

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Operation Mode : 802.11ac80 Test Date : 2016/10/13
 Fundamental Frequency : 5610 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



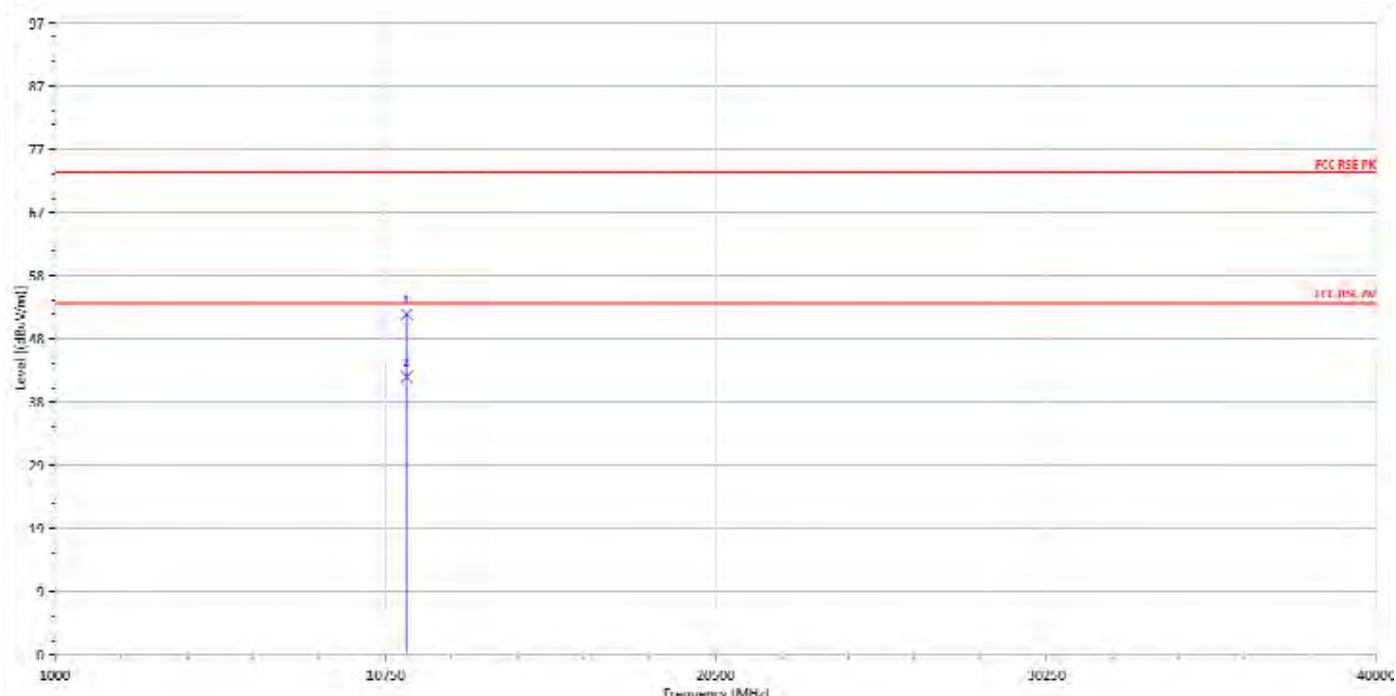
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11220.00	H	Peak	29.20	21.32	50.52	74	-23.48
11220.00	H	Average	21.33	21.32	42.65	54	-11.35

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Operation Mode : 802.11ac80 Test Date : 2016/10/26
 Fundamental Frequency : 5690 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



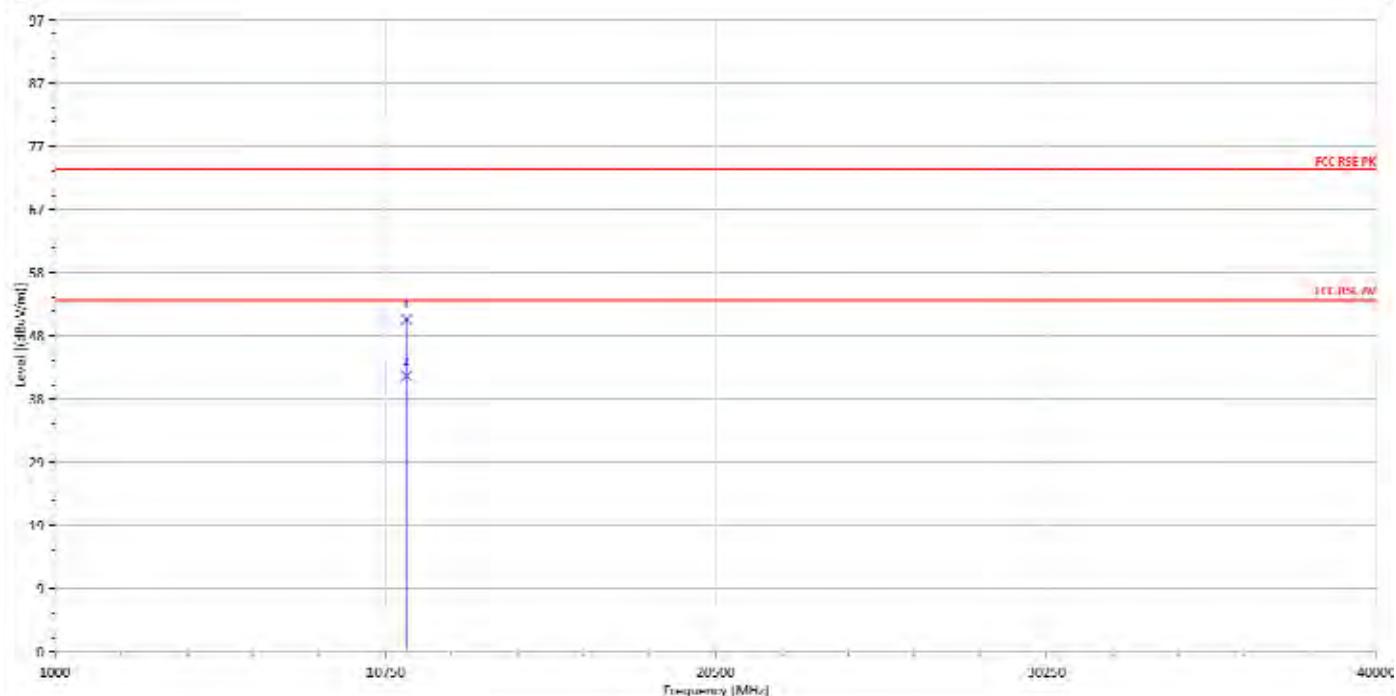
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11380.00	H	Peak	31.33	20.97	52.30	74	-21.70
11380.00	H	Average	21.61	20.97	42.58	54	-11.42

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Operation Mode : 802.11ac80 Test Date : 2016/10/26
 Fundamental Frequency : 5690 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11380.00	H	Peak	30.06	20.97	51.03	74	-22.97
11380.00	H	Average	21.30	20.97	42.27	54	-11.73

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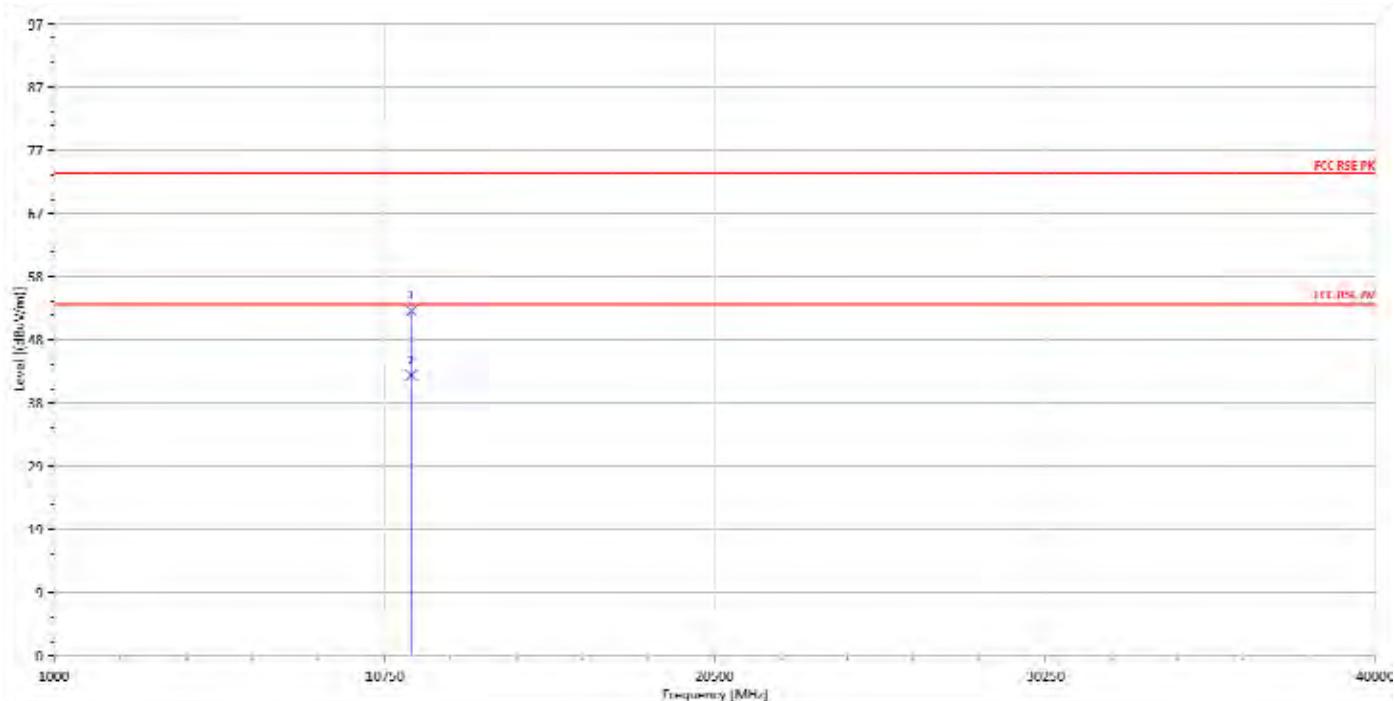
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Radiated Spurious Emission Measurement Result

802.11ac_VHT80, 5725~5850 MHz

Operation Mode : 802.11ac80 Test Date : 2016/10/13
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



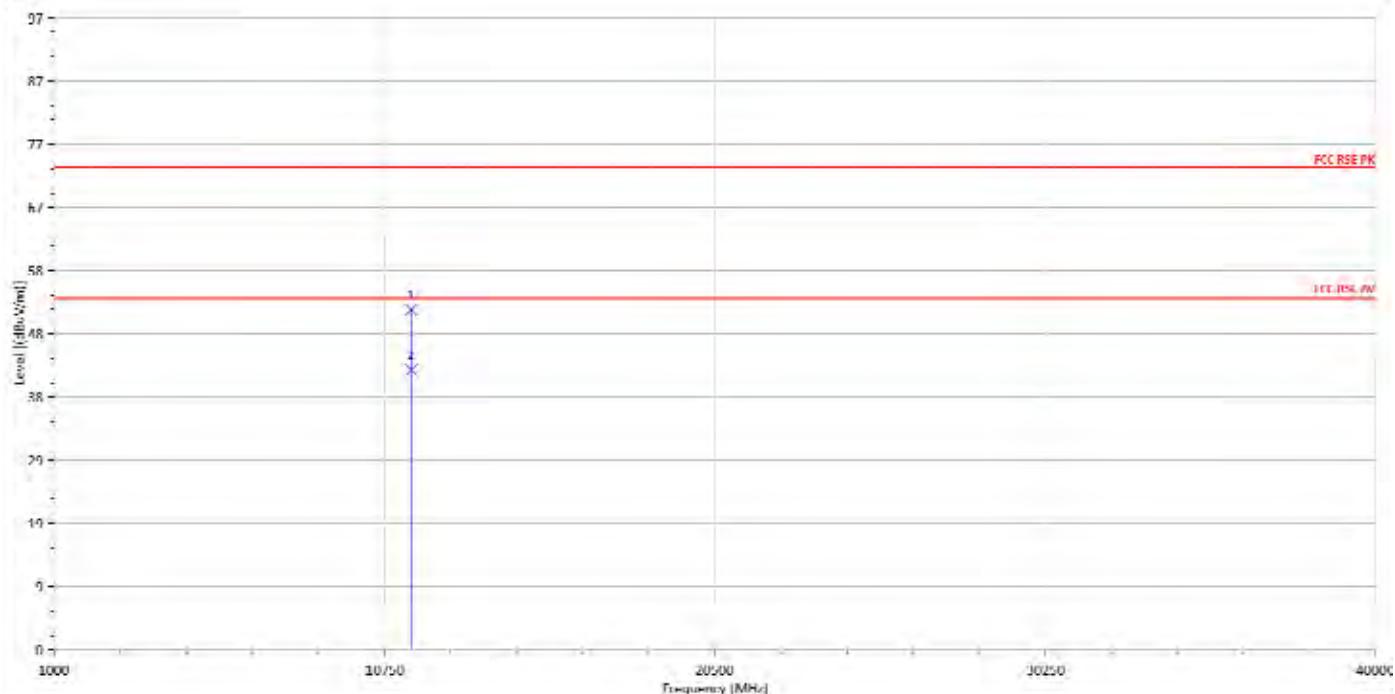
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.00	H	Peak	31.57	21.41	52.99	74	-21.01
11550.00	H	Average	21.60	21.41	43.01	54	-10.99

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Operation Mode : 802.11ac80 Test Date : 2016/10/13
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11550.00	H	Peak	30.82	21.41	52.23	74	-21.77
11550.00	H	Average	21.47	21.41	42.88	54	-11.12

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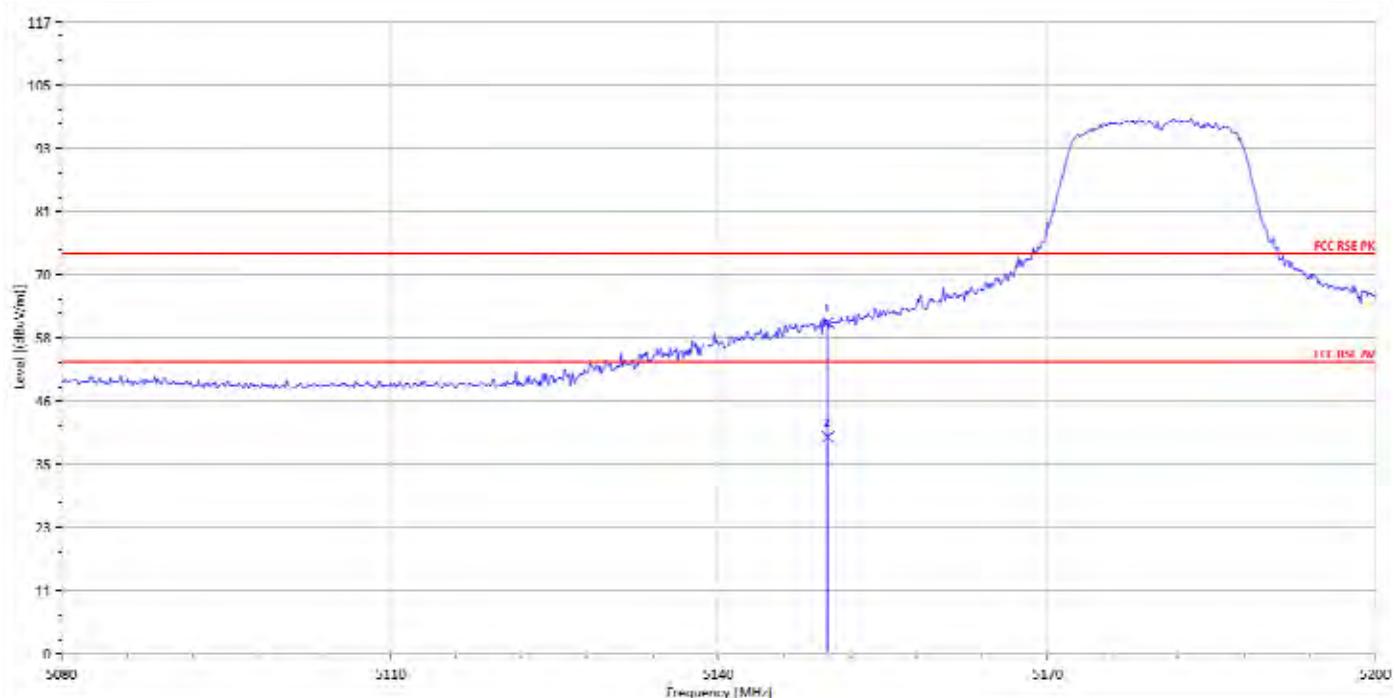
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Band edge falling to restricted band

802.11a mode

Operation Mode : 802.11a Test Date : 2016/10/12
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



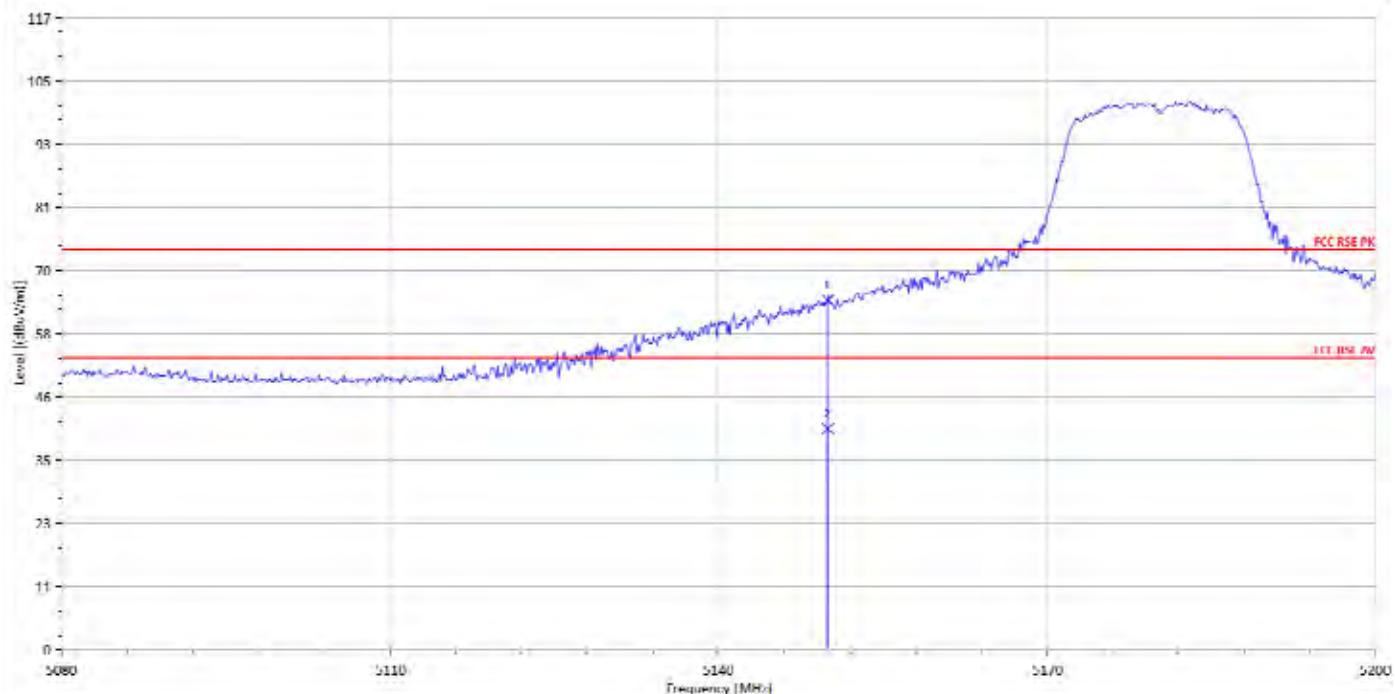
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5150.00	E	Peak	53.14	8.19	61.33	74	-12.67
5150.00	E	Average	31.94	8.19	40.13	54	-13.87

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Operation Mode : 802.11a Test Date : 2016/10/12
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	E	Peak	56.52	8.19	64.71	74	-9.29
5150.00	E	Average	32.75	8.19	40.94	54	-13.06

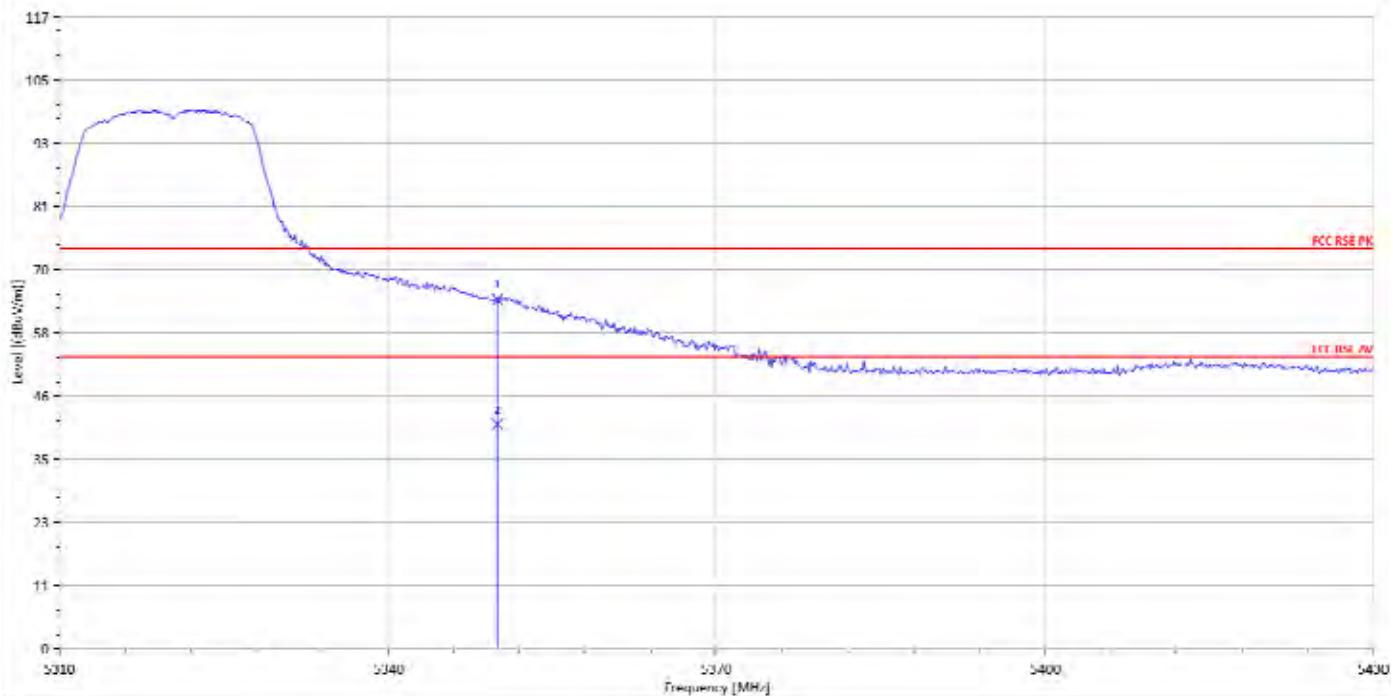
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Operation Mode : 802.11a Test Date : 2016/10/12
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical



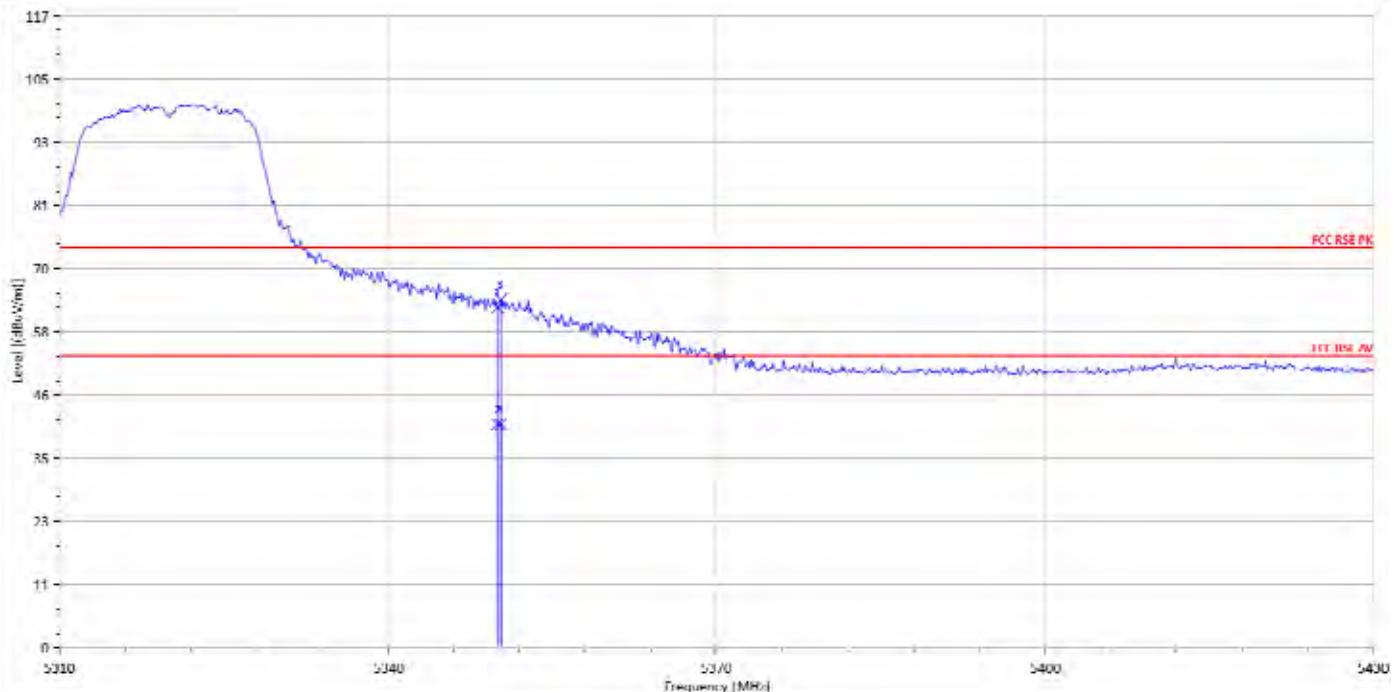
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	E	Peak	55.72	8.96	64.68	74	-9.32
5350.00	E	Average	32.59	8.96	41.55	54	-12.45

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Operation Mode : 802.11a Test Date : 2016/10/12
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	E	Peak	54.09	8.96	63.05	74	-10.95
5350.00	E	Average	32.39	8.96	41.35	54	-12.65
5350.32	S	Peak	55.54	8.97	64.51	74	-9.49
5350.32	S	Average	32.40	8.97	41.37	54	-12.63

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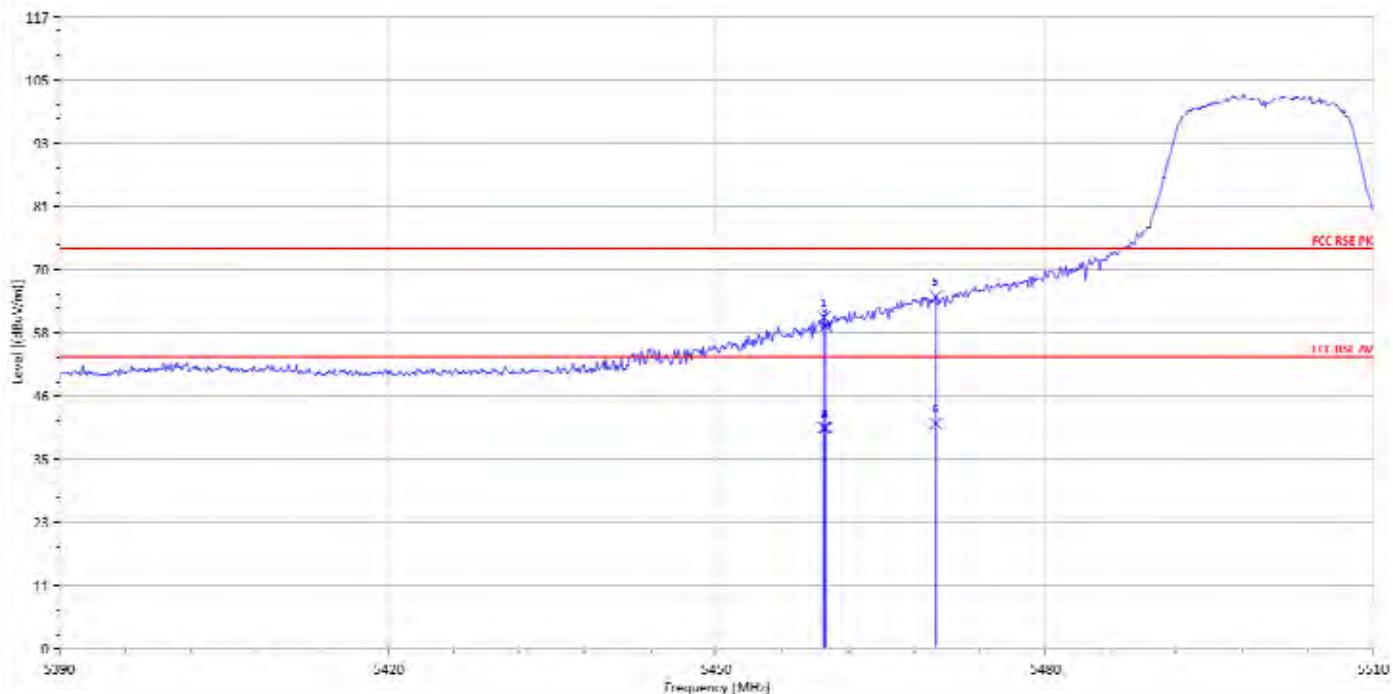
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Operation Mode : 802.11a Test Date : 2016/10/12
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
			Reading	Level dBµV				
5459.84	S	Peak	52.50	8.88	61.39	74	-12.61	
5459.84	S	Average	32.04	8.88	40.92	54	-13.08	
5460.00	E	Peak	50.85	8.88	59.73	74	-14.27	
5460.00	E	Average	32.05	8.88	40.93	54	-13.07	
5470.00	E	Peak	56.36	8.79	65.15	74	-8.85	
5470.00	E	Average	32.90	8.79	41.69	54	-12.31	

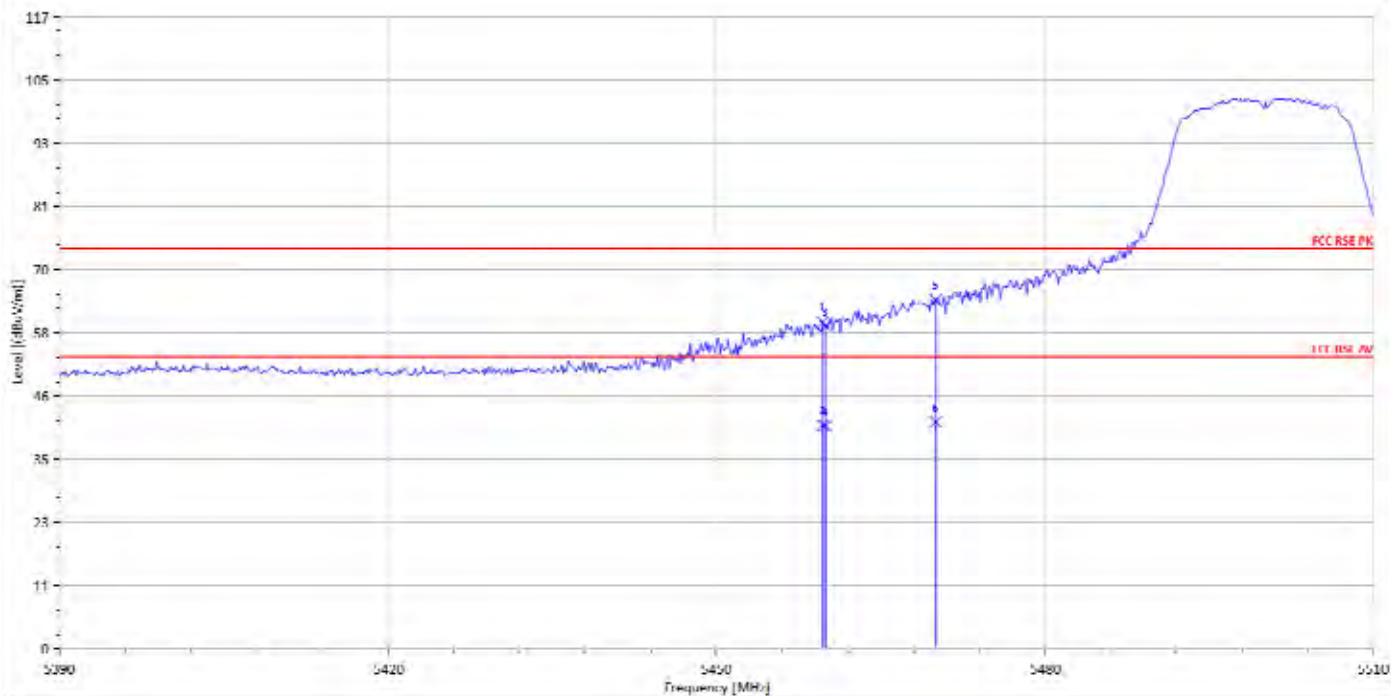
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Operation Mode : 802.11a Test Date : 2016/10/12
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



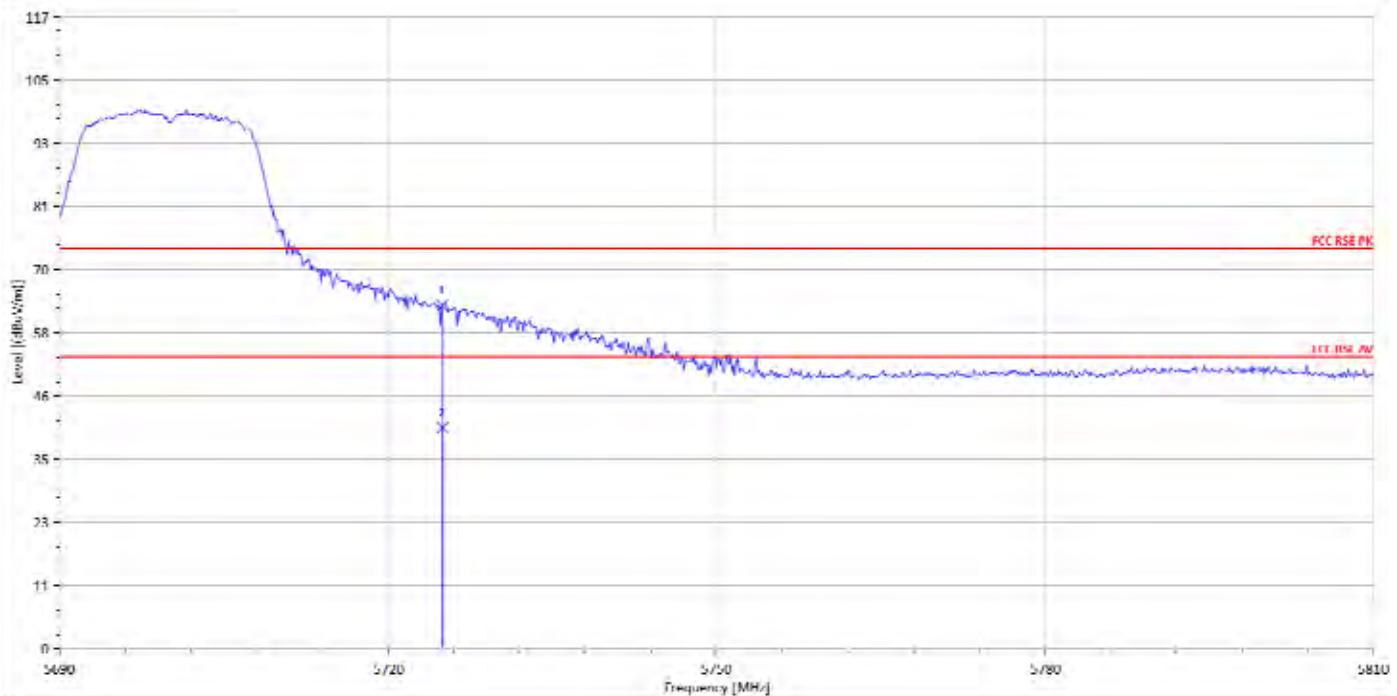
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Reading	Level dB μ V				
5459.72	S	Peak	51.61	8.89	60.49	74	-13.51	
5459.72	S	Average	32.45	8.89	41.34	54	-12.66	
5460.00	E	Peak	50.84	8.88	59.72	74	-14.28	
5460.00	E	Average	32.39	8.88	41.27	54	-12.73	
5470.00	E	Peak	55.76	8.79	64.55	74	-9.45	
5470.00	E	Average	33.20	8.79	41.99	54	-12.01	

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Operation Mode : 802.11a Test Date : 2016/10/12
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical



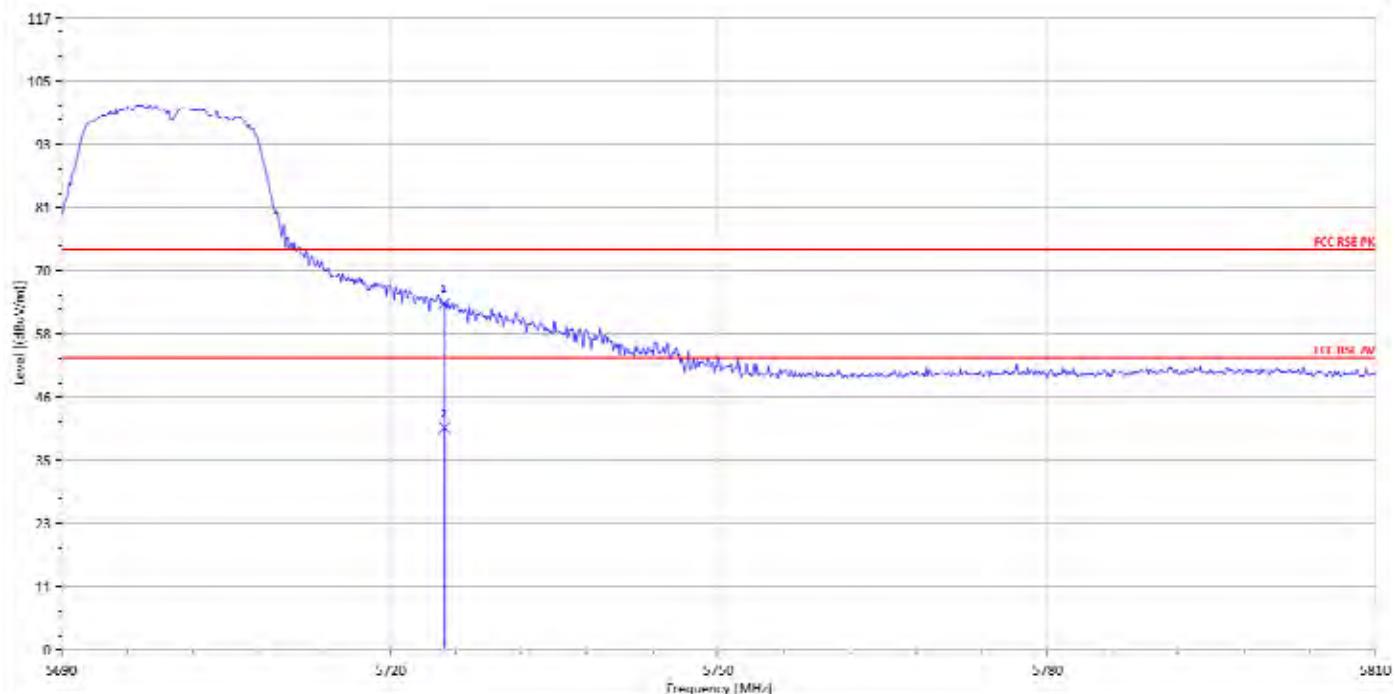
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	54.30	9.30	63.60	74	-10.40
5725.00	E	Average	31.65	9.30	40.95	54	-13.05

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Operation Mode : 802.11a Test Date : 2016/10/12
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Horizontal



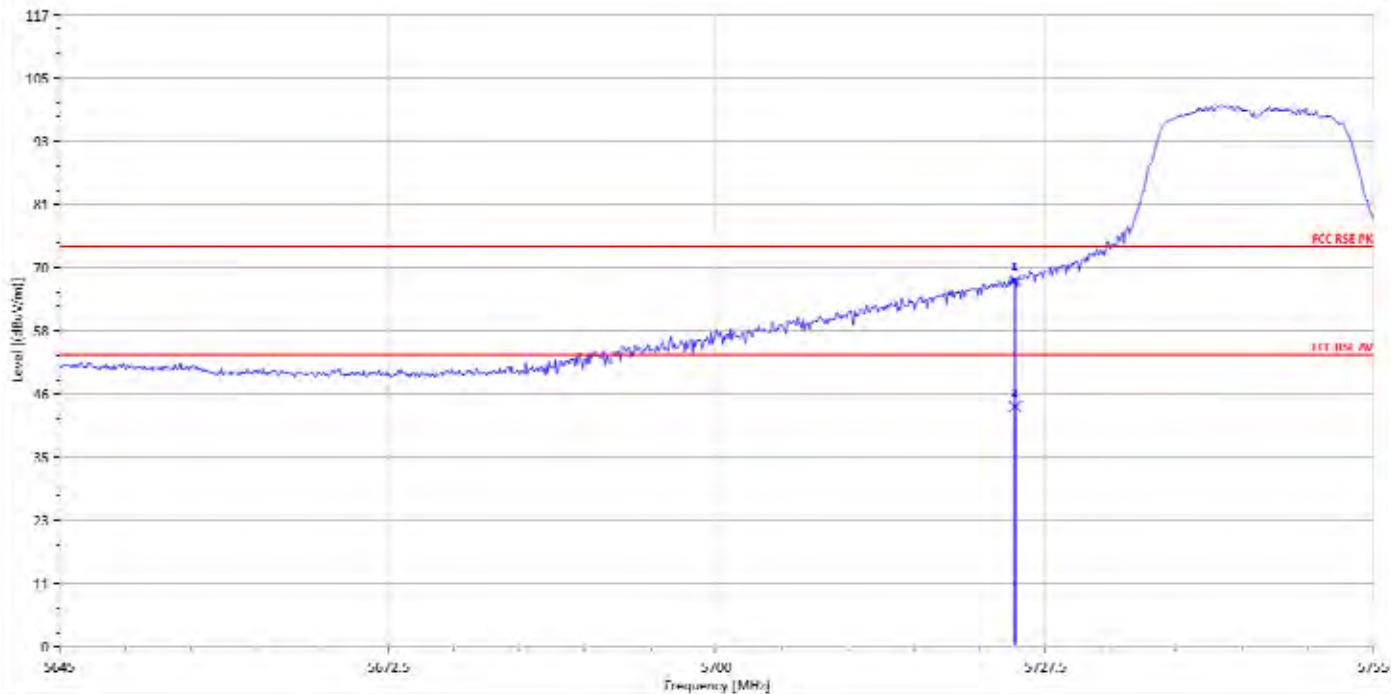
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	54.89	9.30	64.19	74	-9.81
5725.00	E	Average	31.79	9.30	41.09	54	-12.91

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Operation Mode : 802.11a Test Date : 2016/10/12
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical



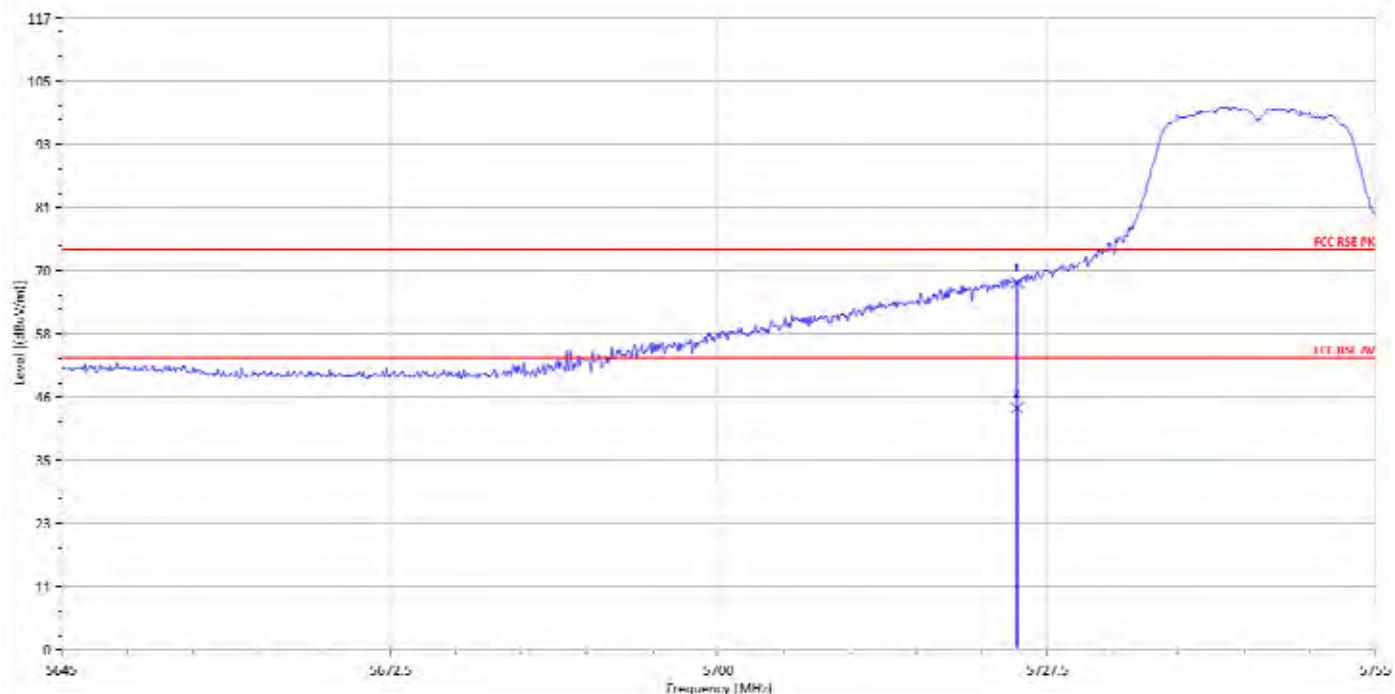
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	58.39	9.30	67.69	74	-6.31
5725.00	E	Average	35.20	9.30	44.50	54	-9.50

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 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	58.62	9.30	67.92	74	-6.08
5725.00	E	Average	35.50	9.30	44.80	54	-9.20

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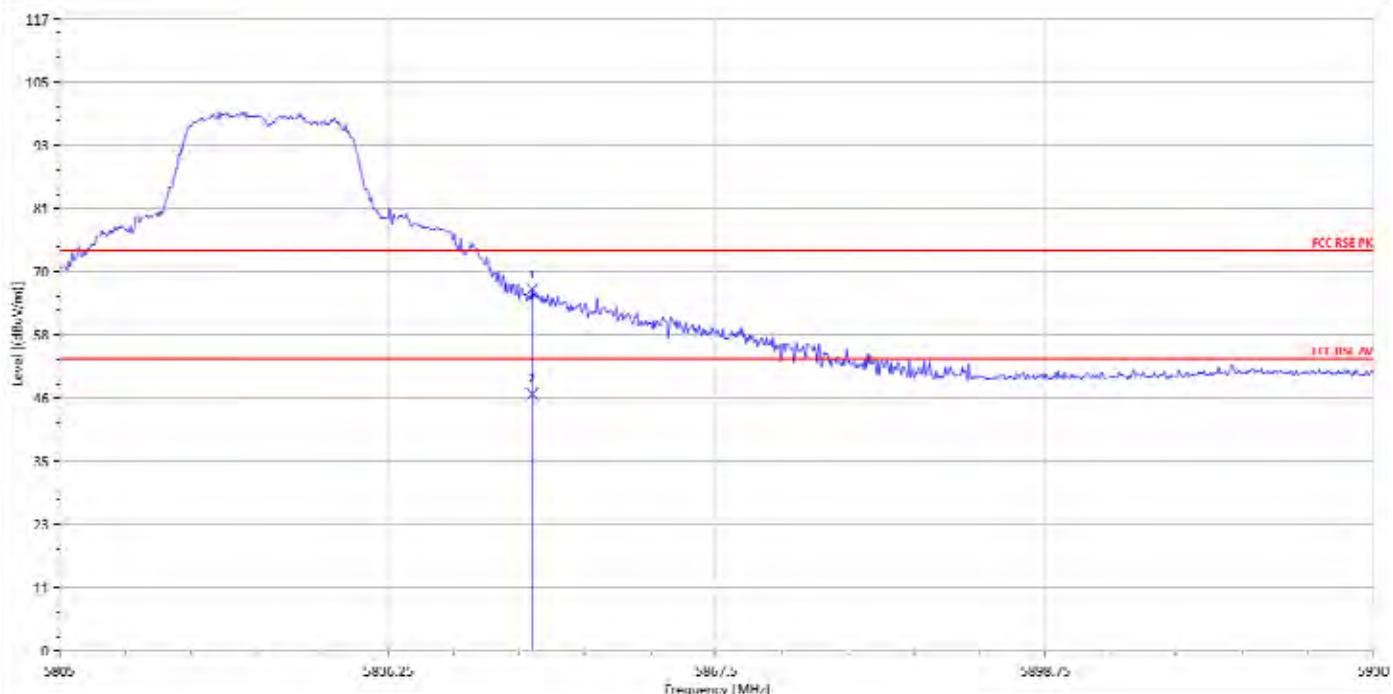
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Operation Mode : 802.11a Test Date : 2016/10/12
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



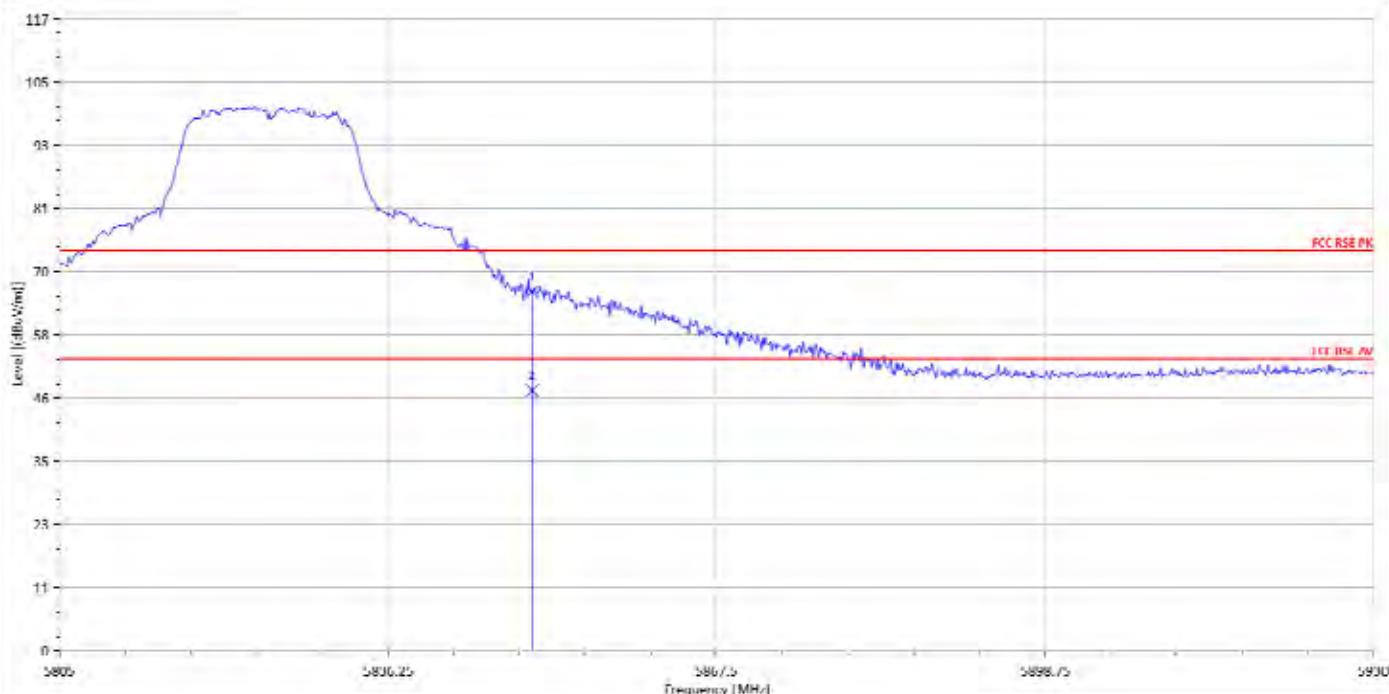
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	E	Peak	57.41	9.49	66.89	74	-7.11
5850.00	E	Average	38.10	9.49	47.59	54	-6.41

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Operation Mode : 802.11a Test Date : 2016/10/12
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	E	Peak	56.91	9.49	66.40	74	-7.60
5850.00	E	Average	38.67	9.49	48.16	54	-5.84

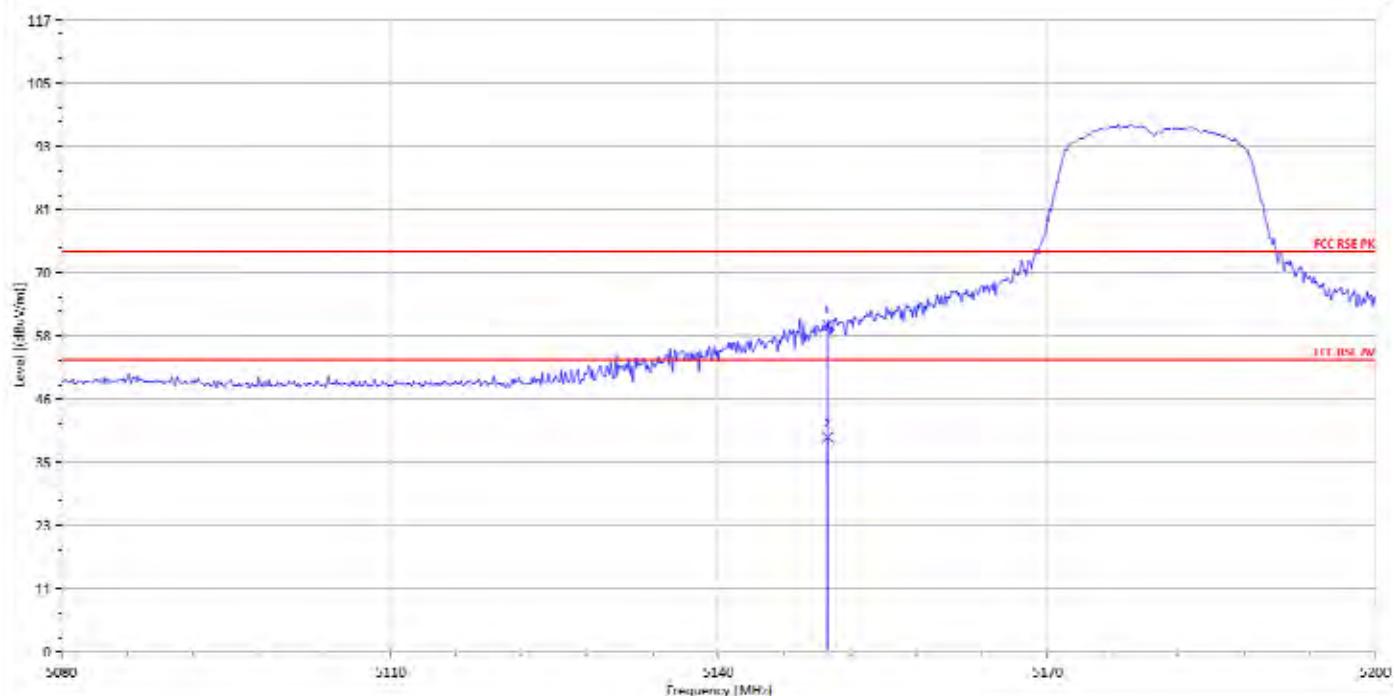
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Band edge falling to restricted band**802.11ac_VHT20 mode**

Operation Mode : 802.11ac20 Test Date : 2016/10/12
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical



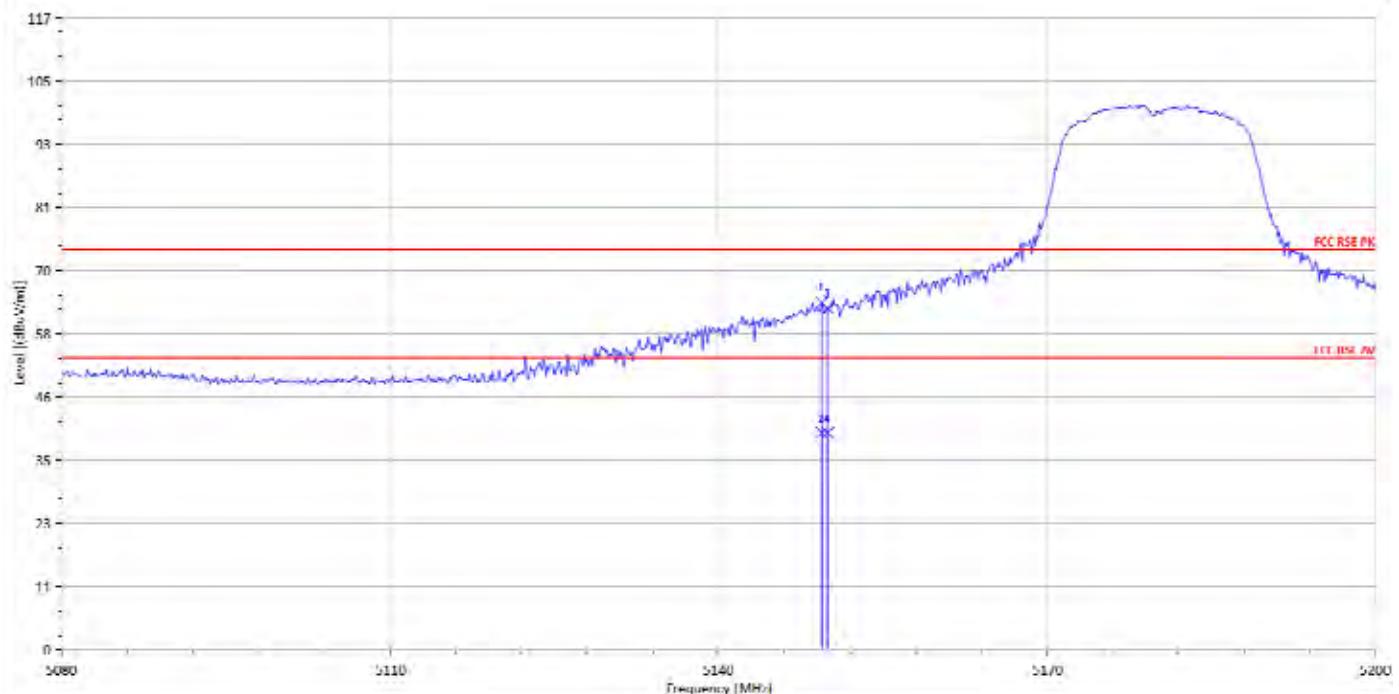
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	E	Peak	52.37	8.19	60.56	74	-13.44
5150.00	E	Average	31.48	8.19	39.67	54	-14.33

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Operation Mode : 802.11ac20 Test Date : 2016/10/12
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5149.48	S	Peak	56.14	8.19	64.33	74	-9.67
5149.48	S	Average	31.96	8.19	40.15	54	-13.85
5150.00	E	Peak	55.07	8.19	63.27	74	-10.73
5150.00	E	Average	31.97	8.19	40.16	54	-13.84

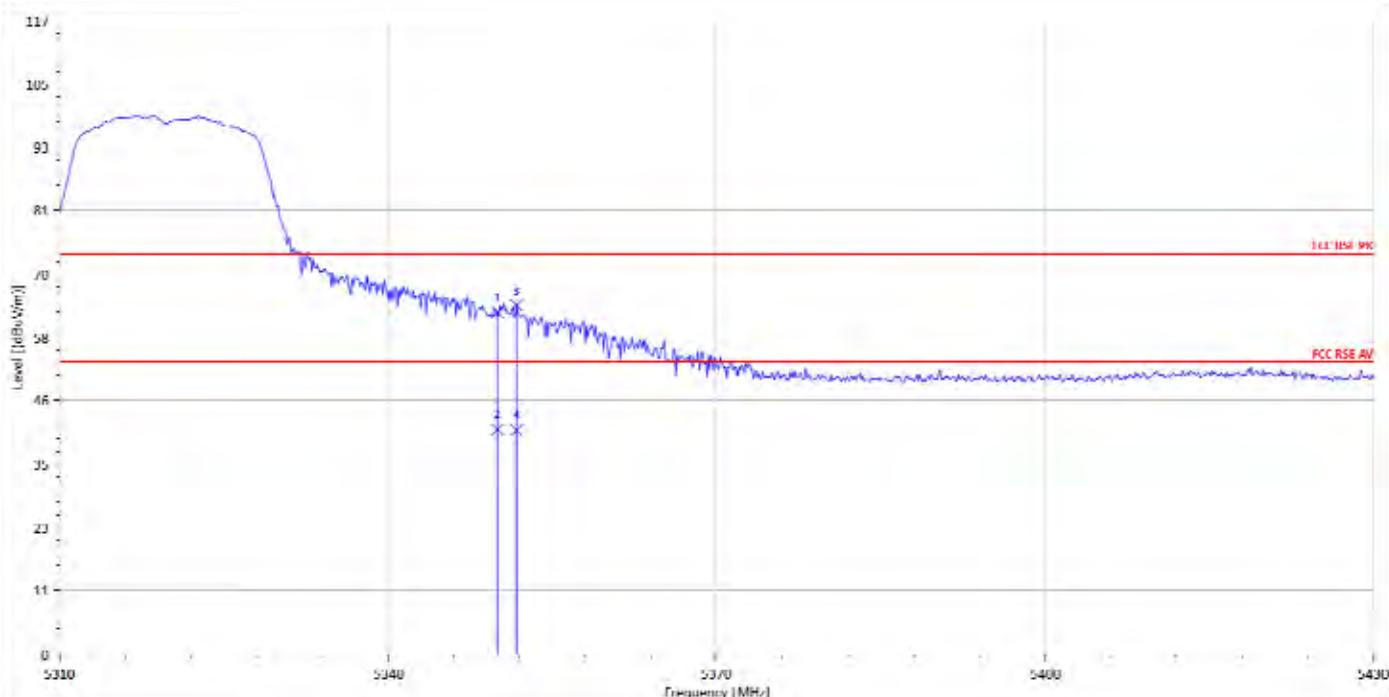
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Operation Mode : 802.11ac20 Test Date : 2016/10/12
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



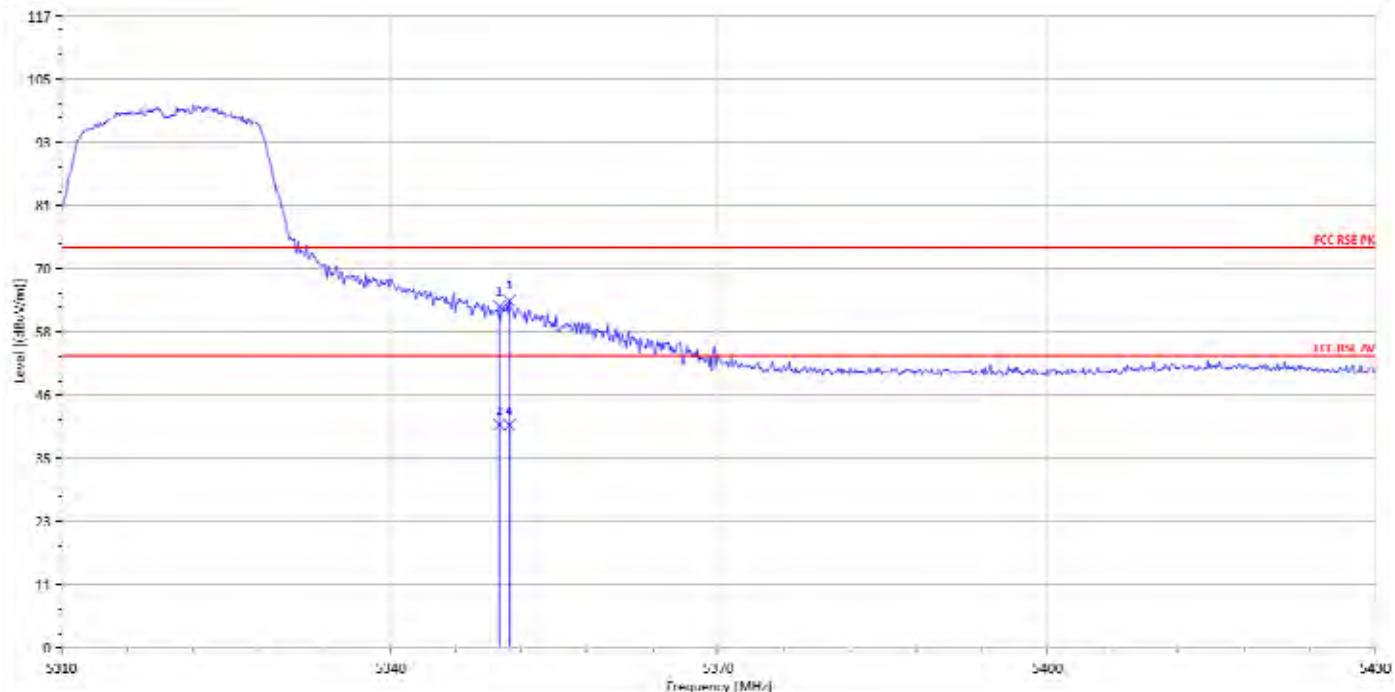
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Reading	Level dB μ V				
5350.00	E	Peak	54.10	54.10	8.98	63.08	74	-10.92
5350.00	E	Average	32.55	32.55	8.98	41.53	54	-12.47
5351.76	S	Peak	55.41	55.41	8.99	64.40	74	-9.60
5351.76	S	Average	32.41	32.41	8.99	41.40	54	-12.60

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Operation Mode : 802.11ac20 Test Date : 2016/10/12
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	E	Peak	54.30	8.97	63.27	74	-10.73
5350.00	E	Average	32.32	8.97	41.29	54	-12.71
5350.92	S	Peak	55.34	8.98	64.32	74	-9.68
5350.92	S	Average	32.25	8.98	41.23	54	-12.77

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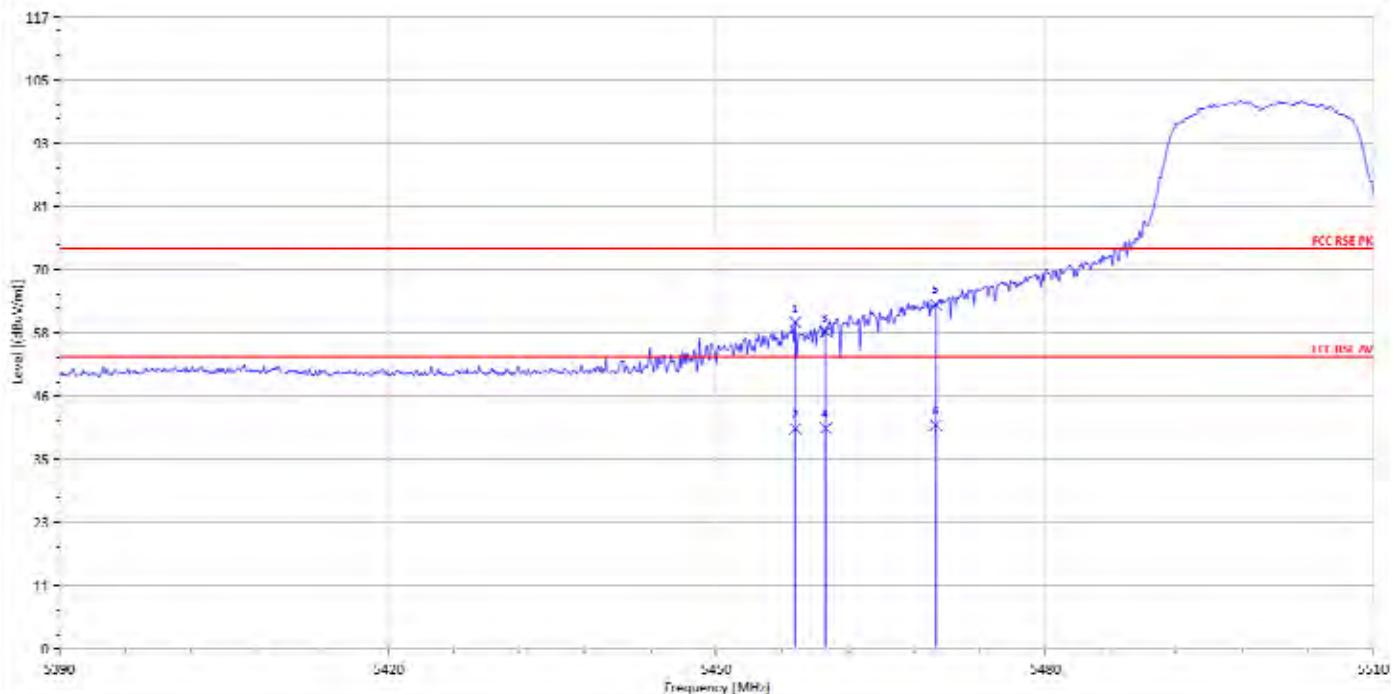
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Operation Mode : 802.11ac20 Test Date : 2016/10/12
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



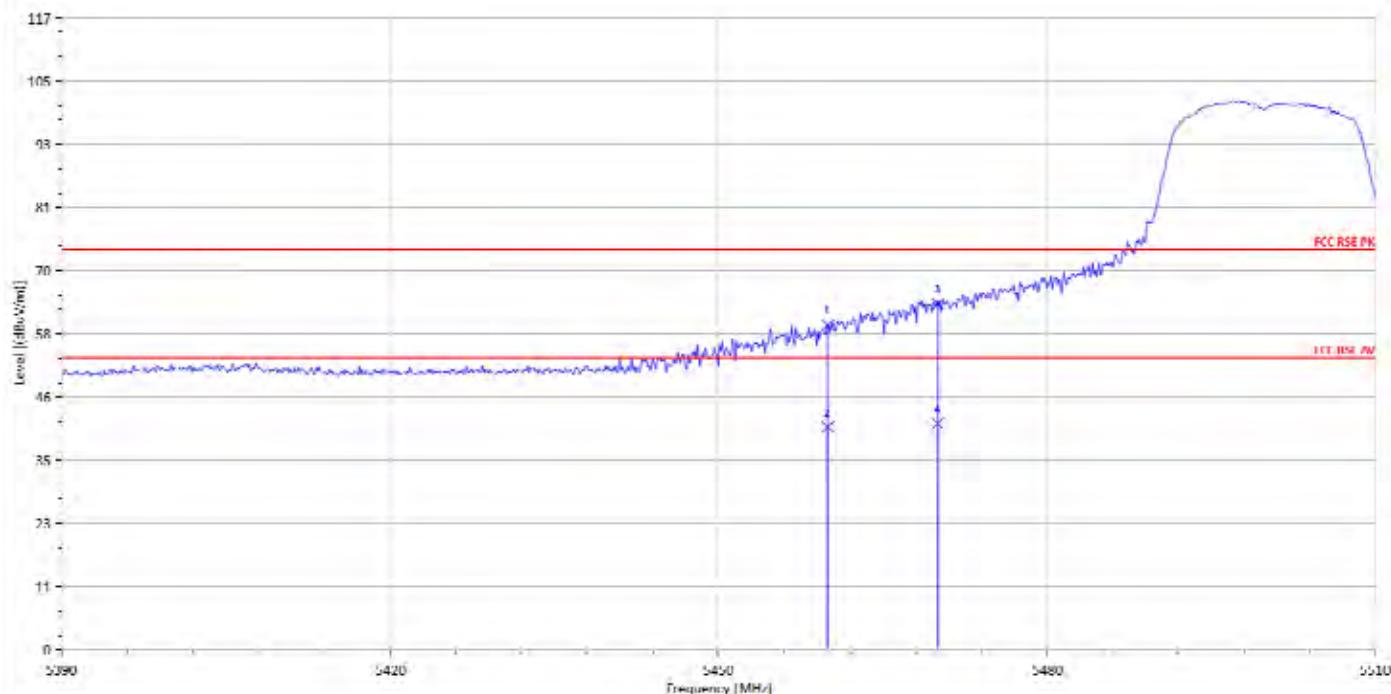
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
			Reading	Level dBµV				
5457.20	S	Peak	51.54	8.91	60.45	74	-13.55	
5457.20	S	Average	31.79	8.91	40.70	54	-13.30	
5460.00	E	Peak	49.79	8.88	58.68	74	-15.32	
5460.00	E	Average	31.93	8.88	40.81	54	-13.19	
5470.00	E	Peak	54.93	8.79	63.72	74	-10.28	
5470.00	E	Average	32.60	8.79	41.39	54	-12.61	

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Operation Mode : 802.11ac20 Test Date : 2016/10/12
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	E	Peak	51.24	8.88	60.13	74	-13.87
5460.00	E	Average	32.36	8.88	41.24	54	-12.76
5470.00	E	Peak	55.23	8.79	64.02	74	-9.98
5470.00	E	Average	33.09	8.79	41.88	54	-12.12

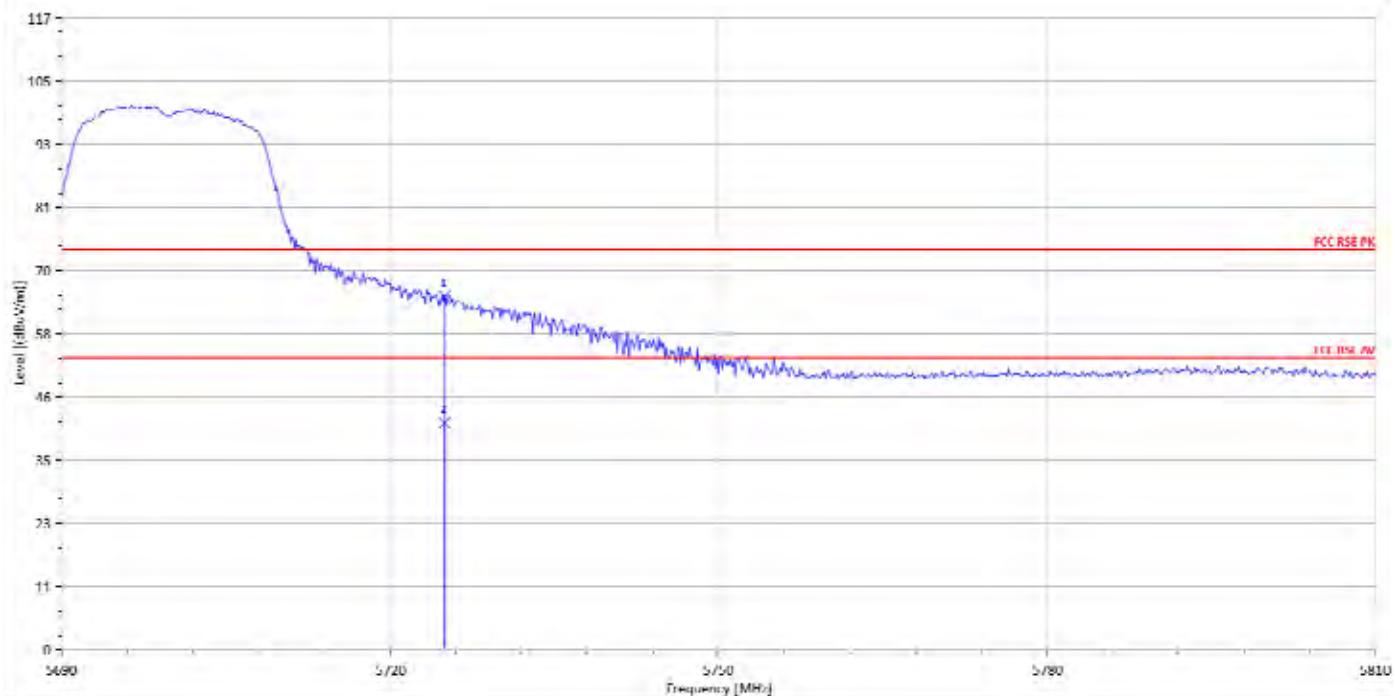
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Operation Mode : 802.11ac20 Test Date : 2016/10/12
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	55.97	9.30	65.27	74	-8.73
5725.00	E	Average	32.70	9.30	42.00	54	-12.00

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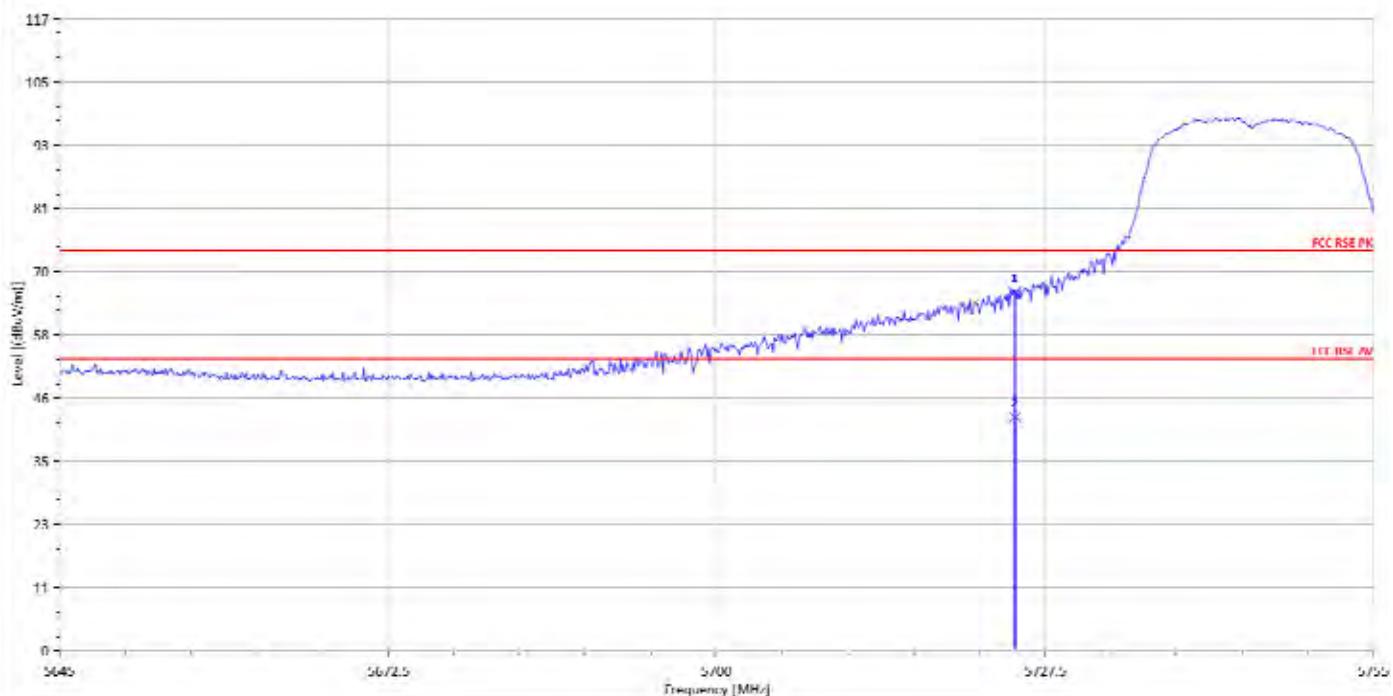
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Operation Mode : 802.11ac20 Test Date : 2016/10/12
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



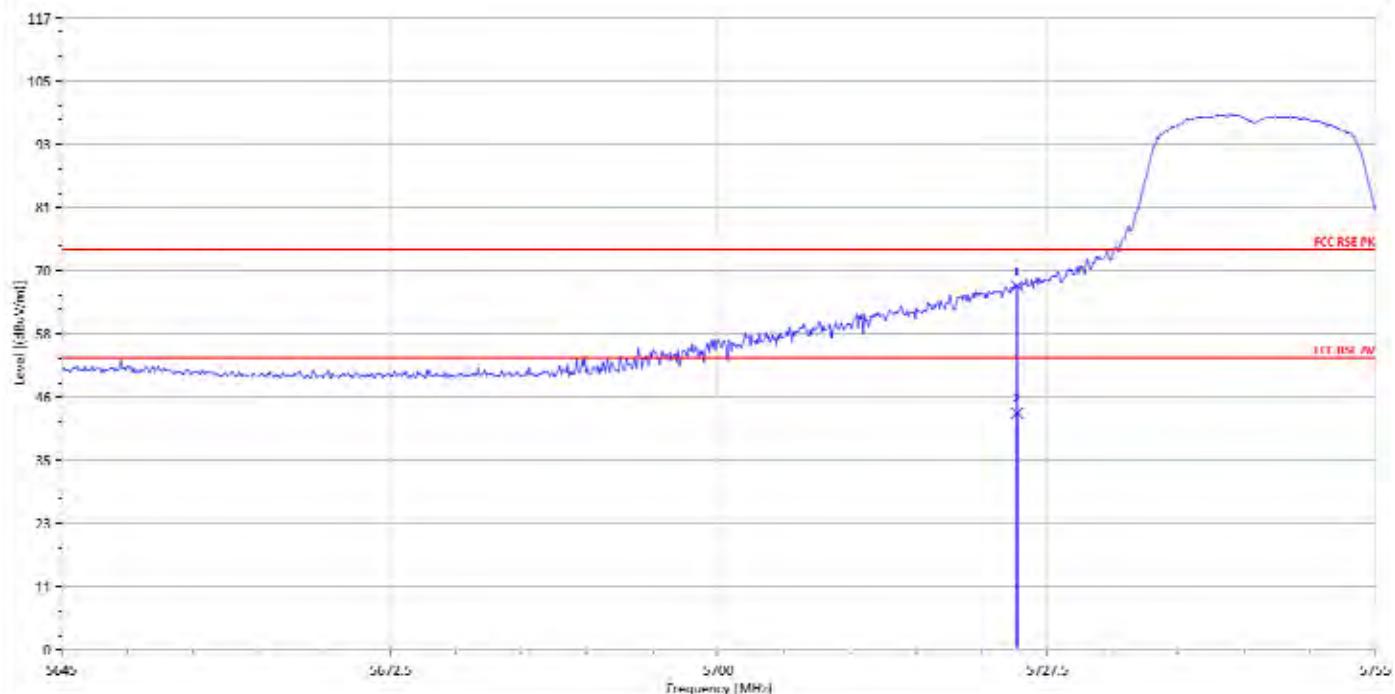
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	56.96	9.30	66.26	74	-7.74
5725.00	E	Average	33.95	9.30	43.25	54	-10.75

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Operation Mode : 802.11ac20 Test Date : 2016/10/12
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	57.96	9.30	67.26	74	-6.74
5725.00	E	Average	34.53	9.30	43.83	54	-10.17

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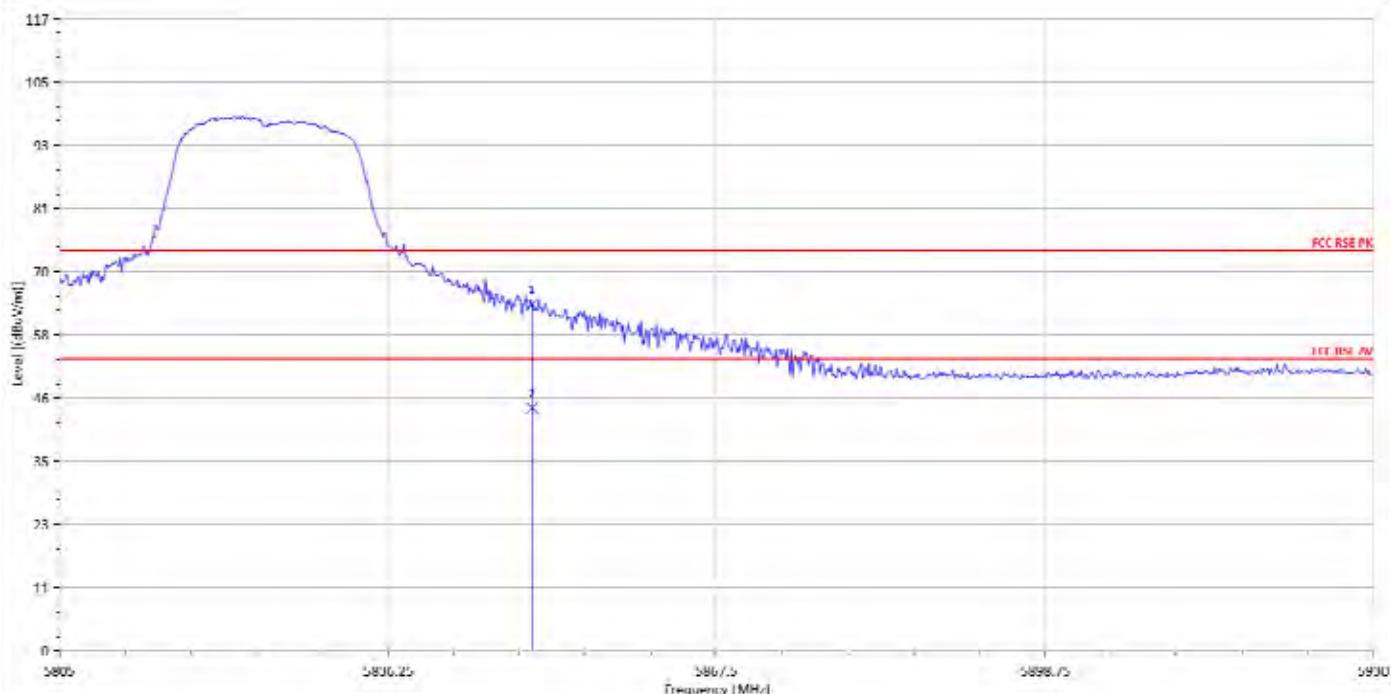
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Operation Mode : 802.11ac20 Test Date : 2016/10/12
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



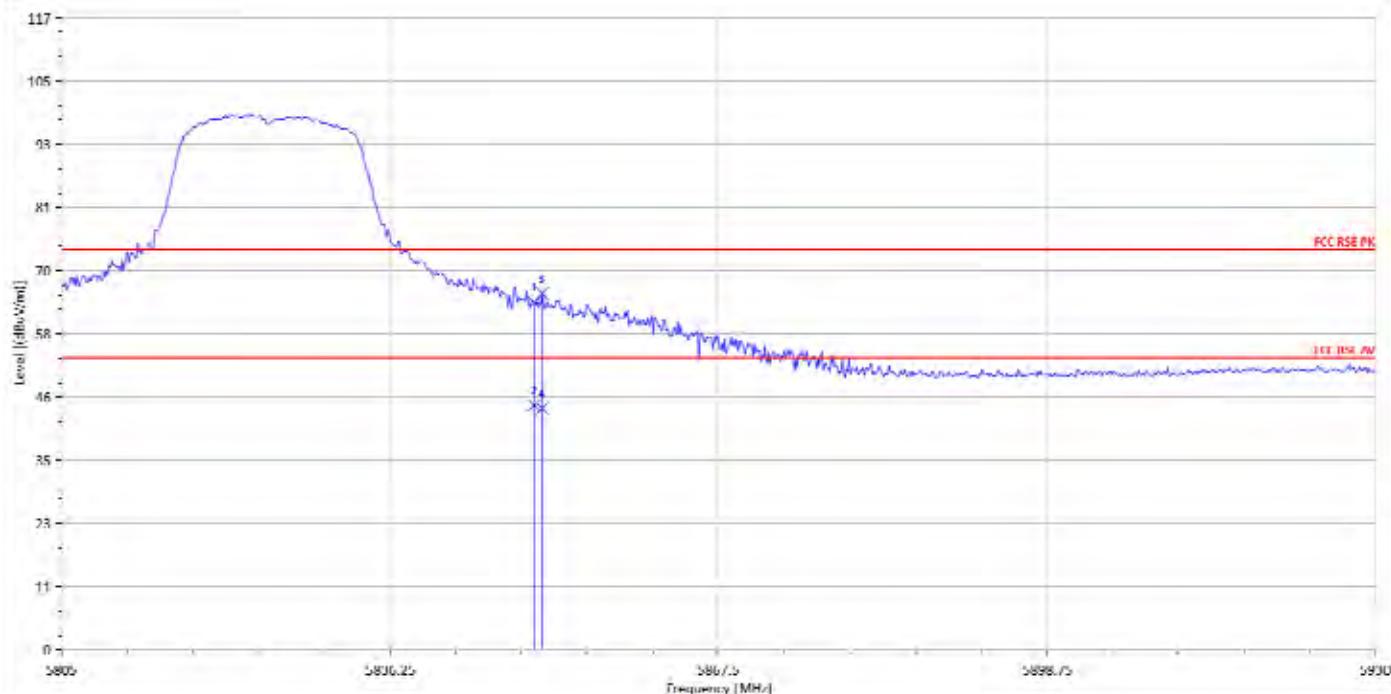
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	E	Peak	54.66	9.49	64.15	74	-9.85
5850.00	E	Average	35.51	9.49	45.00	54	-9.00

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 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	E	Peak	54.80	9.49	64.28	74	-9.72
5850.00	E	Average	35.78	9.49	45.27	54	-8.73
5850.75	S	Peak	56.43	9.50	65.93	74	-8.07
5850.75	S	Average	35.21	9.50	44.71	54	-9.29

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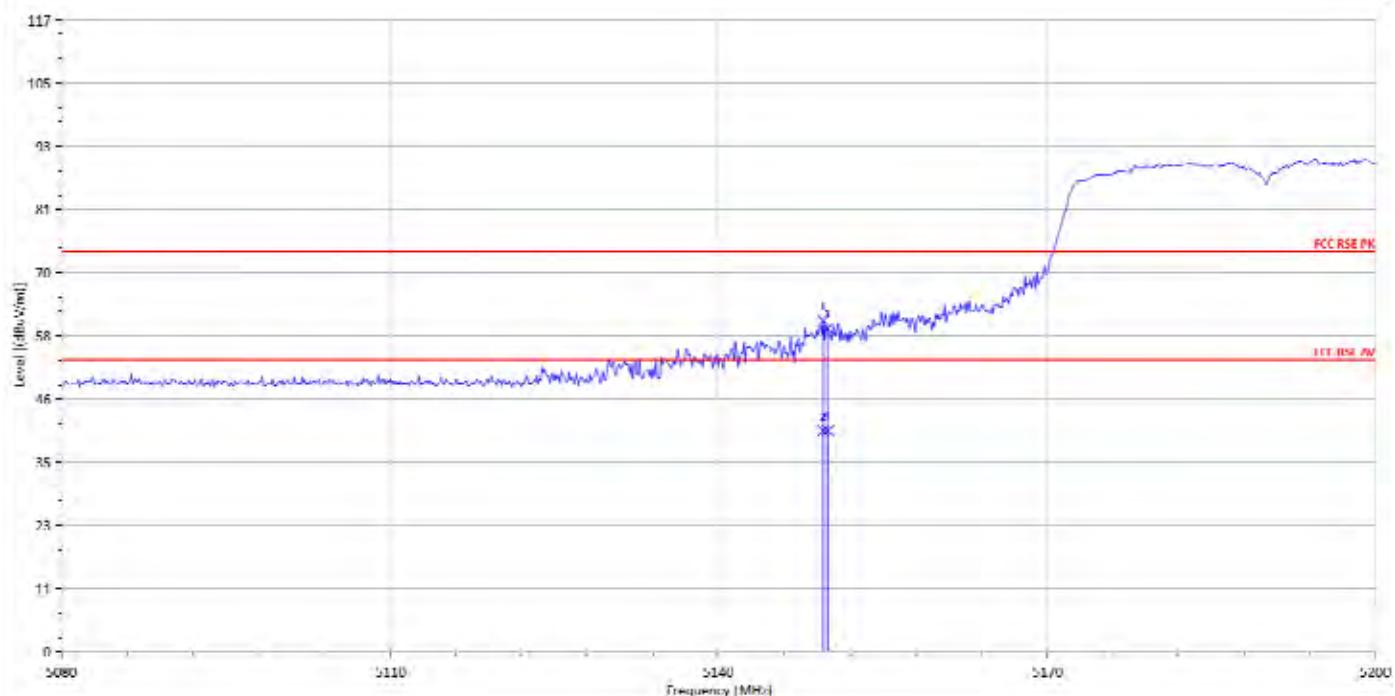
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Band edge falling to restricted band

802.11ac_VHT40 mode

Operation Mode : 802.11ac40 Test Date : 2016/10/12
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



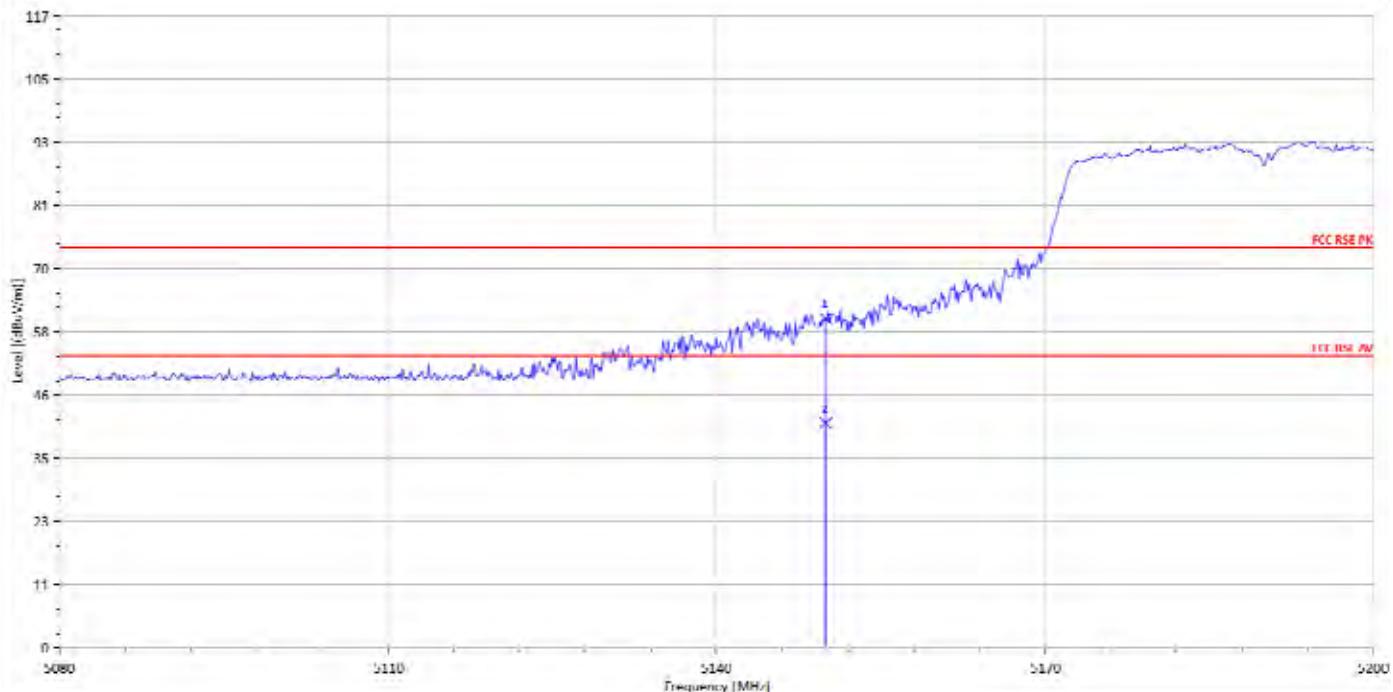
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5149.60	S	Peak	53.16	8.19	61.35	74	-12.65
5149.60	S	Average	32.72	8.19	40.91	54	-13.09
5150.00	E	Peak	51.63	8.19	59.83	74	-14.17
5150.00	E	Average	32.77	8.19	40.96	54	-13.04

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Operation Mode : 802.11ac40 Test Date : 2016/10/12
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



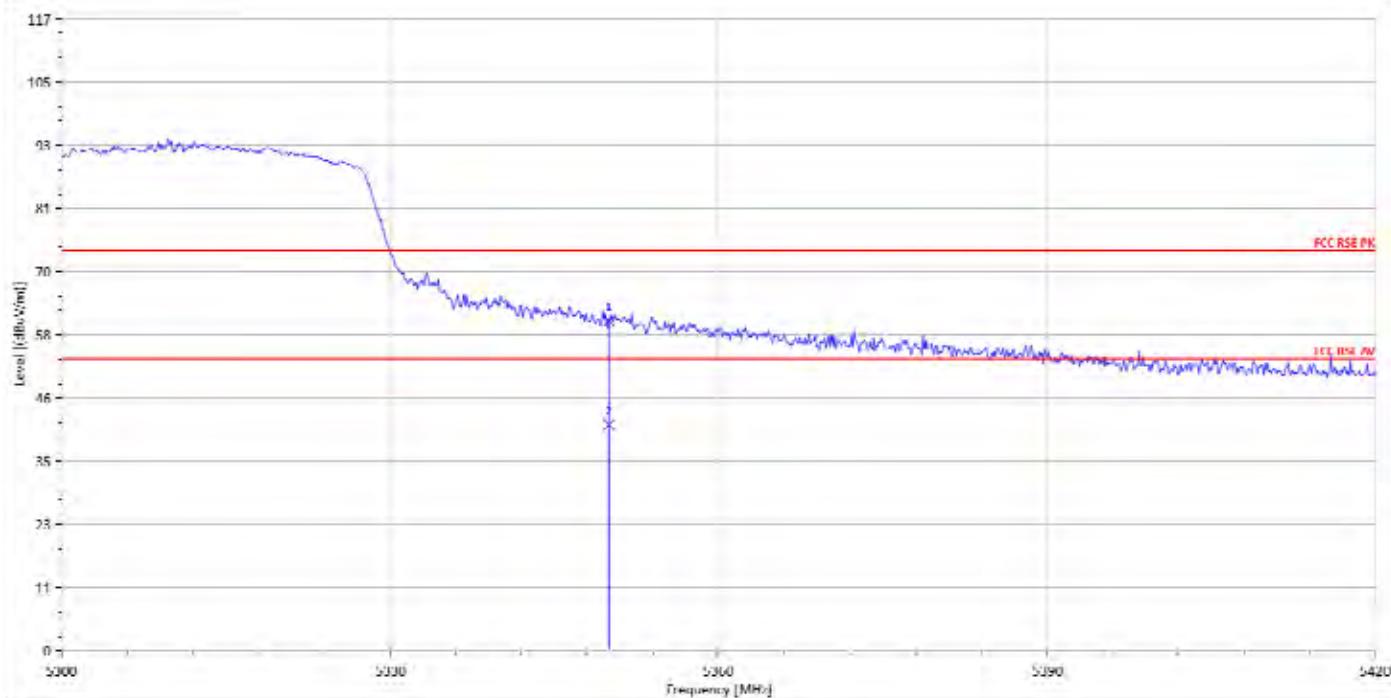
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	E	Peak	52.82	8.19	61.01	74	-12.99
5150.00	E	Average	33.40	8.19	41.59	54	-12.41

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Operation Mode : 802.11ac40 Test Date : 2016/10/12
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



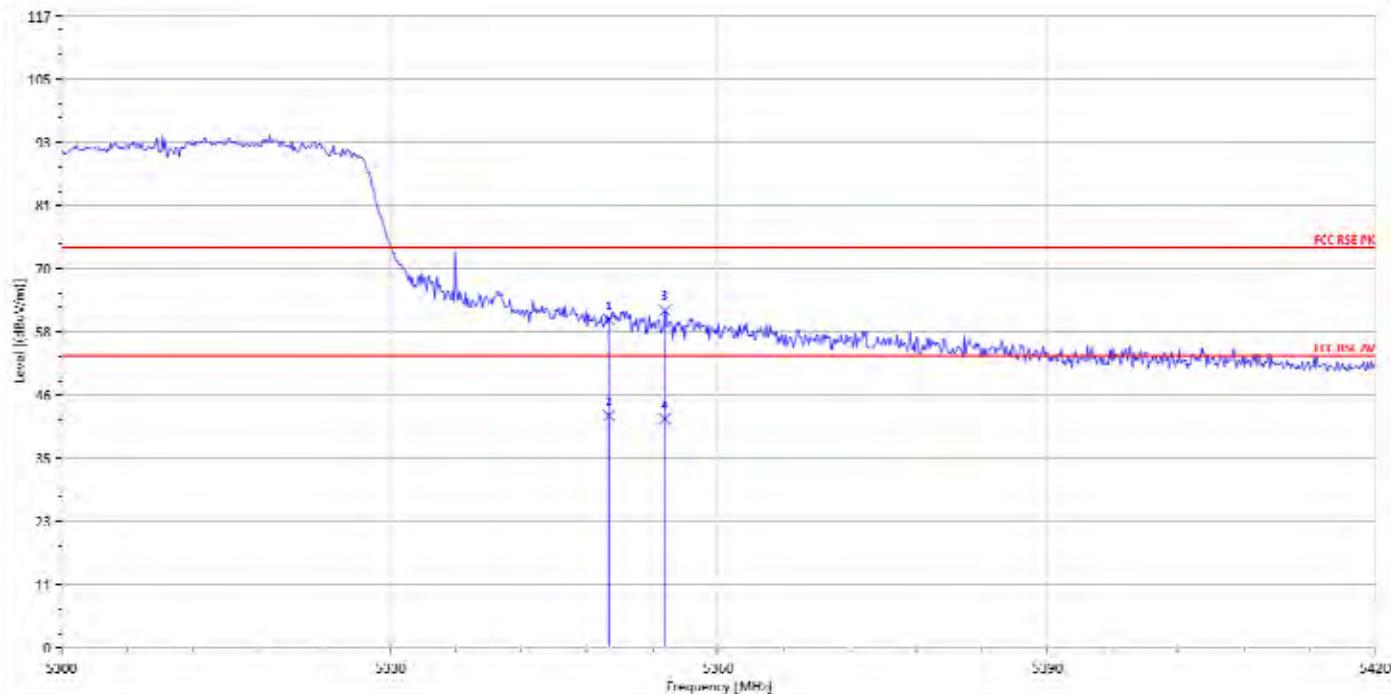
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	E	Peak	52.14	8.97	61.11	74	-12.89
5350.00	E	Average	32.86	8.96	41.82	54	-12.18

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Operation Mode : 802.11ac40 Test Date : 2016/10/12
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	E	Peak	51.83	8.96	60.79	74	-13.21
5350.00	E	Average	34.01	8.96	42.97	54	-11.03
5355.08	S	Peak	53.53	8.97	62.50	74	-11.50
5355.08	S	Average	33.38	8.97	42.35	54	-11.65

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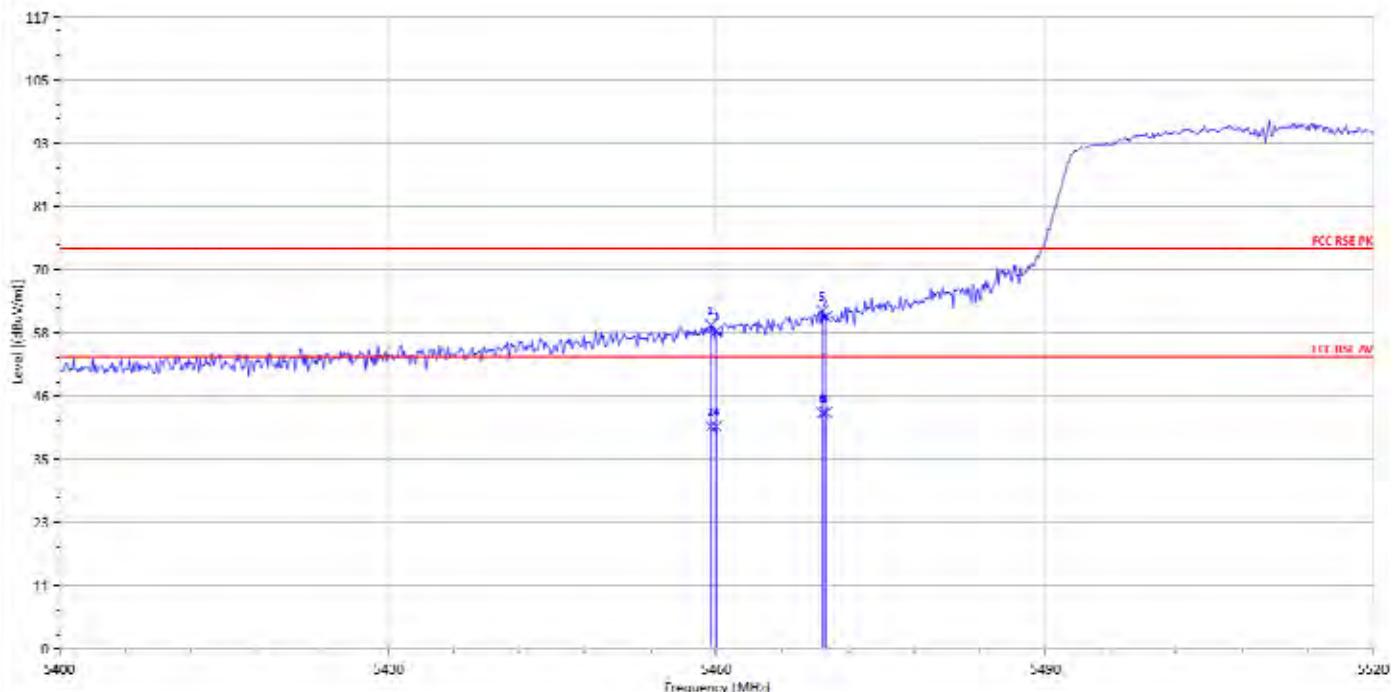
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Operation Mode : 802.11ac40 Test Date : 2016/10/12
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



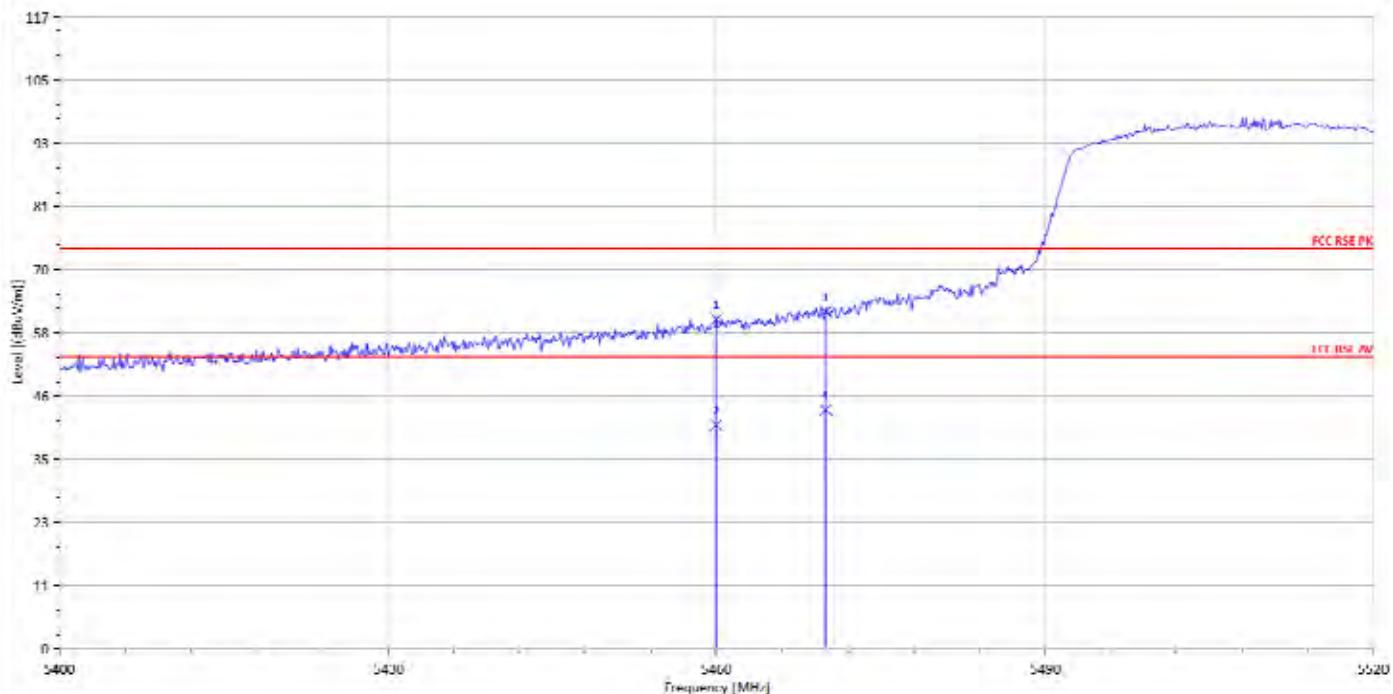
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5459.52	S	Peak	51.07	8.89	59.95	74	-14.05
5459.52	S	Average	32.26	8.89	41.15	54	-12.85
5460.00	E	Peak	49.90	8.88	58.78	74	-15.22
5460.00	E	Average	32.29	8.88	41.17	54	-12.83
5469.72	S	Peak	53.79	8.79	62.58	74	-11.42
5469.72	S	Average	34.87	8.79	43.66	54	-10.34
5470.00	E	Peak	52.72	8.79	61.50	74	-12.50
5470.00	E	Average	34.99	8.79	43.78	54	-10.22

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Operation Mode : 802.11ac40 Test Date : 2016/10/12
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



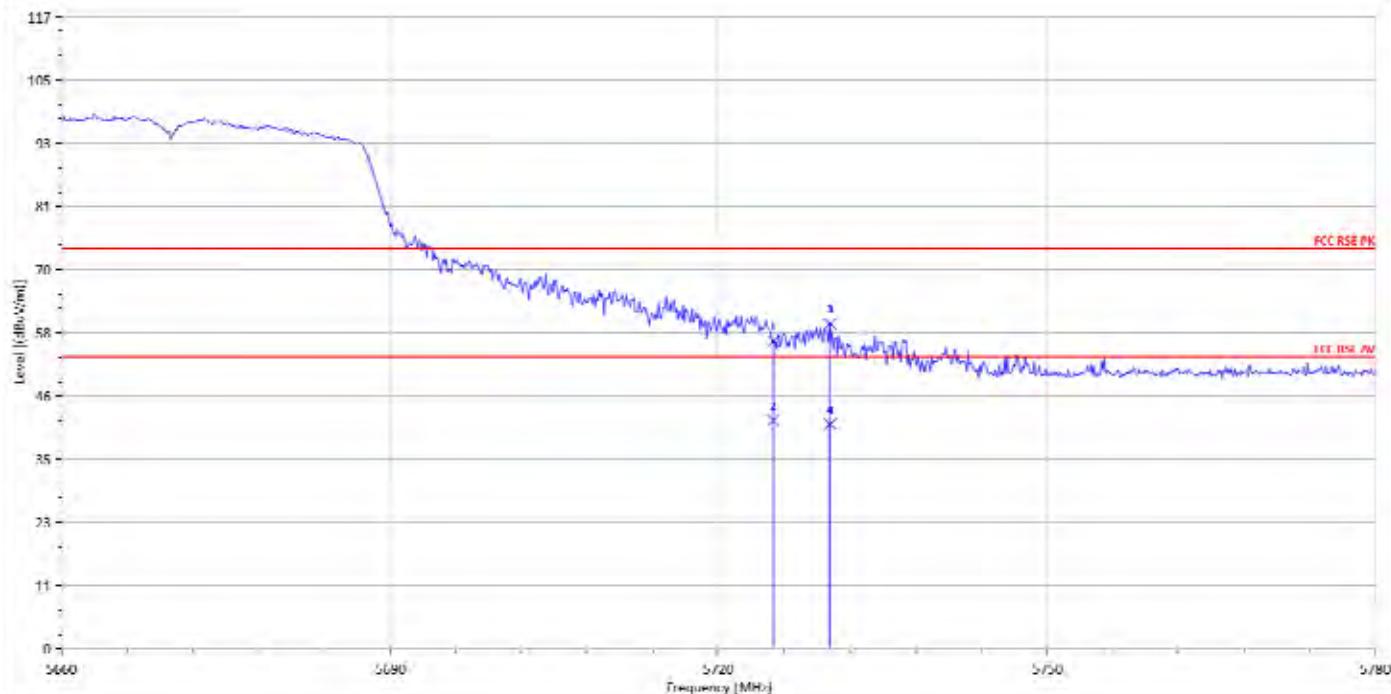
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	E	Peak	52.13	8.88	61.01	74	-12.99
5460.00	E	Average	32.56	8.88	41.44	54	-12.56
5470.00	E	Peak	53.64	8.79	62.43	74	-11.57
5470.00	E	Average	35.45	8.79	44.24	54	-9.76

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Operation Mode : 802.11ac40 Test Date : 2016/10/12
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	47.70	9.30	57.00	74	-17.00
5725.00	E	Average	32.96	9.30	42.26	54	-11.74
5730.20	S	Peak	50.89	9.29	60.19	74	-13.81
5730.20	S	Average	32.27	9.29	41.56	54	-12.44

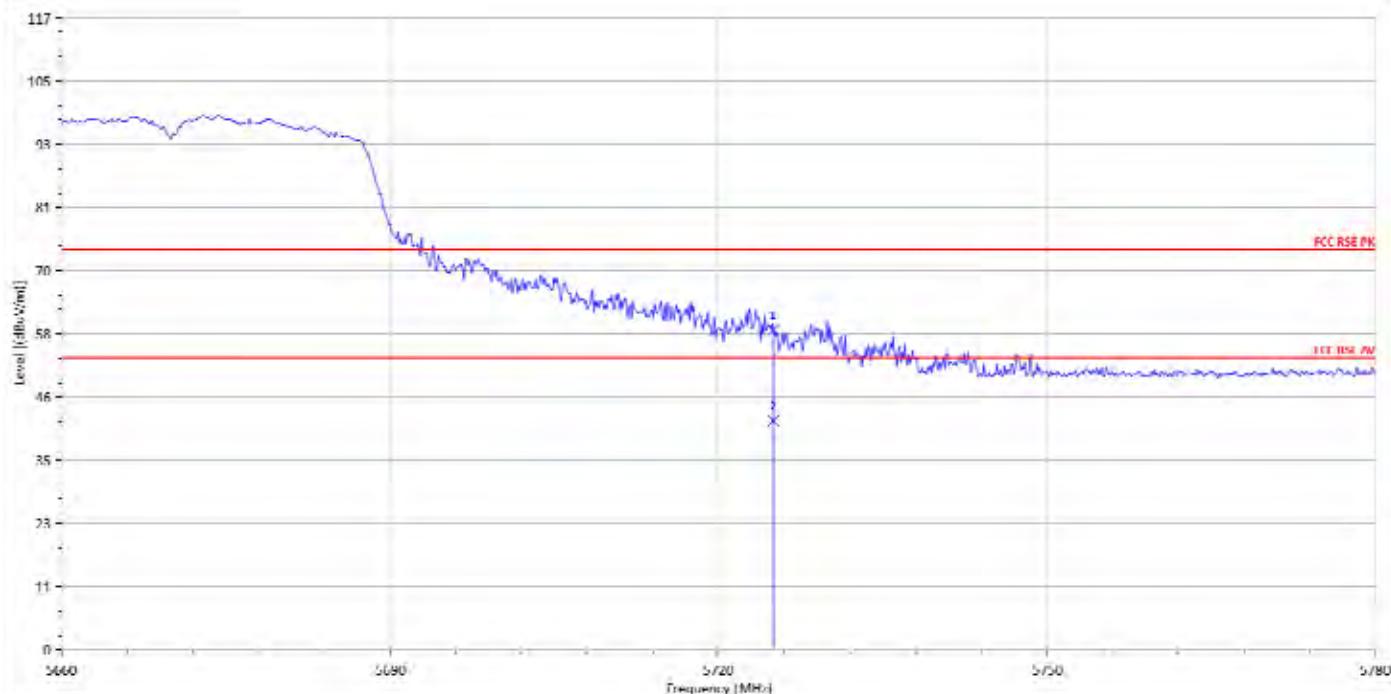
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Operation Mode : 802.11ac40 Test Date : 2016/10/12
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	49.93	9.30	59.23	74	-14.77
5725.00	E	Average	33.09	9.30	42.39	54	-11.61

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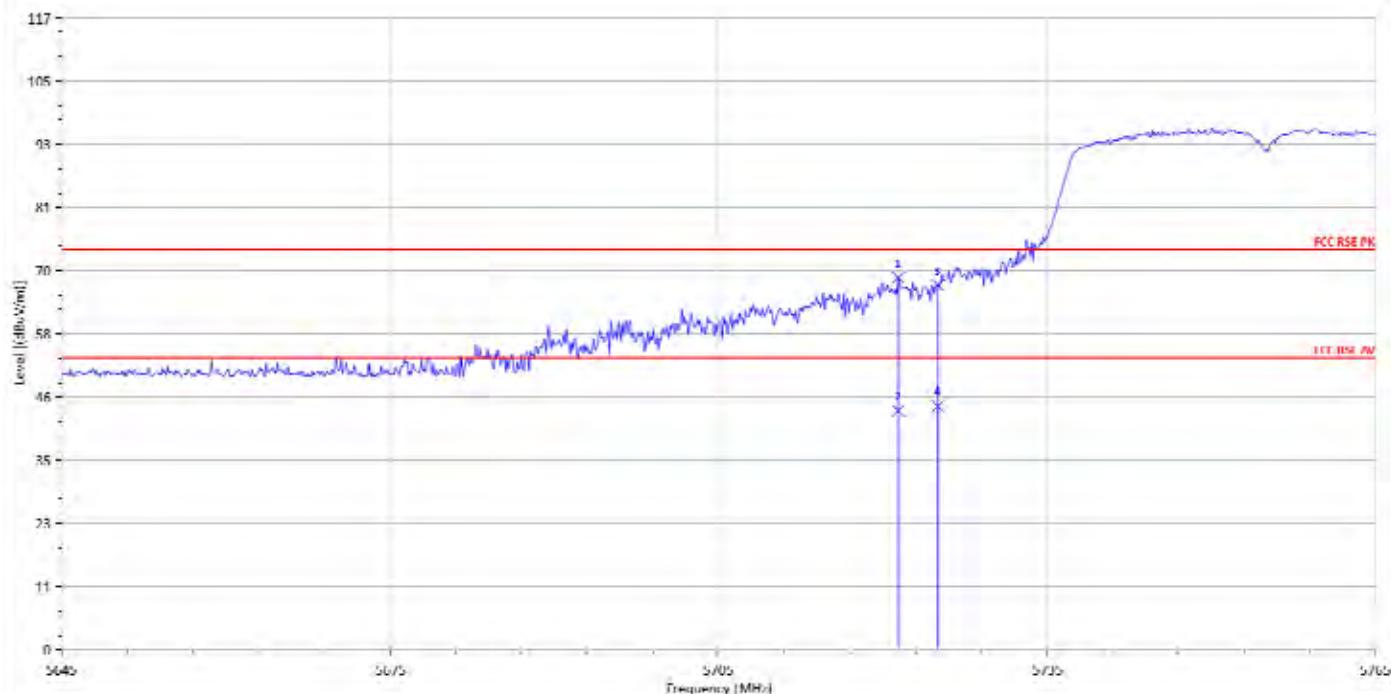
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Operation Mode : 802.11ac40 Test Date : 2016/10/12
Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical



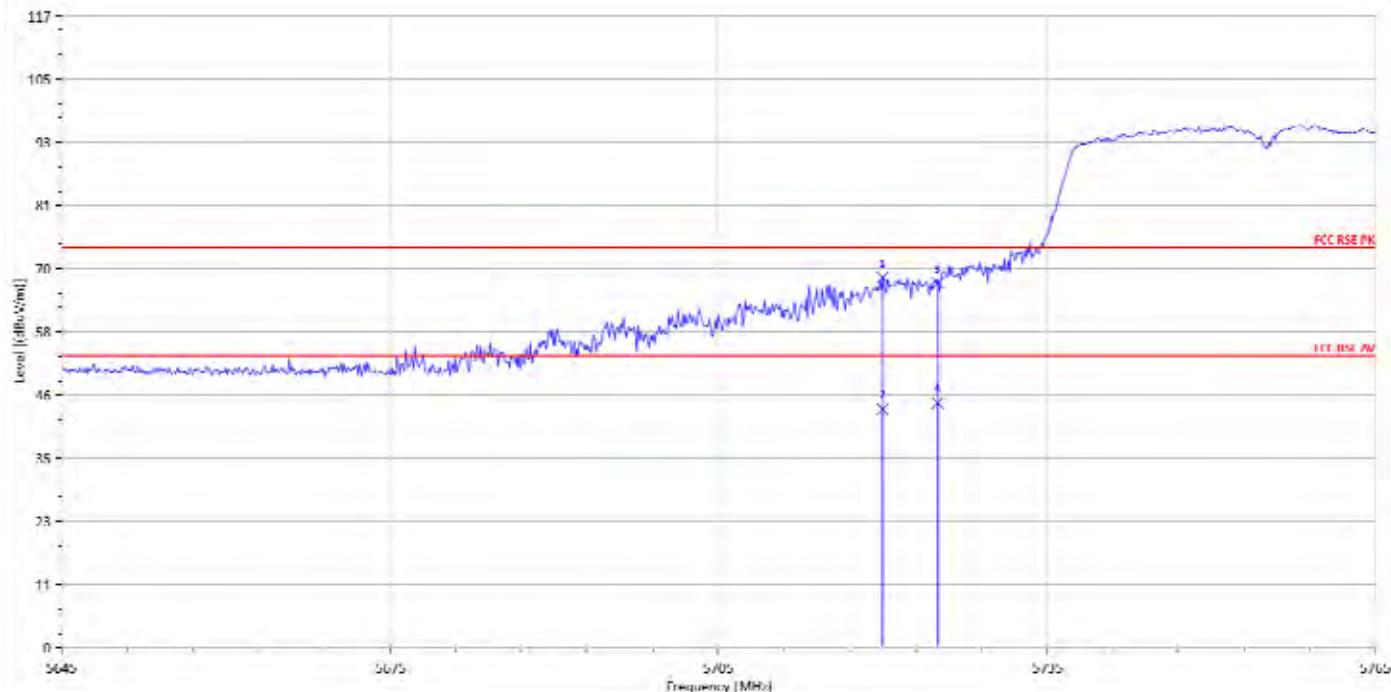
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5721.44	S	Peak	59.54	9.29	68.83	74	-5.17
5721.44	S	Average	34.99	9.29	44.28	54	-9.72
5725.00	E	Peak	58.11	9.30	67.41	74	-6.59
5725.00	E	Average	35.80	9.30	45.10	54	-8.90

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Operation Mode : 802.11ac40 Test Date : 2016/10/12
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5720.00	S	Peak	59.19	9.28	68.47	74	-5.53
5720.00	S	Average	34.90	9.28	44.18	54	-9.82
5725.00	E	Peak	58.15	9.30	67.45	74	-6.55
5725.00	E	Average	36.05	9.30	45.35	54	-8.65

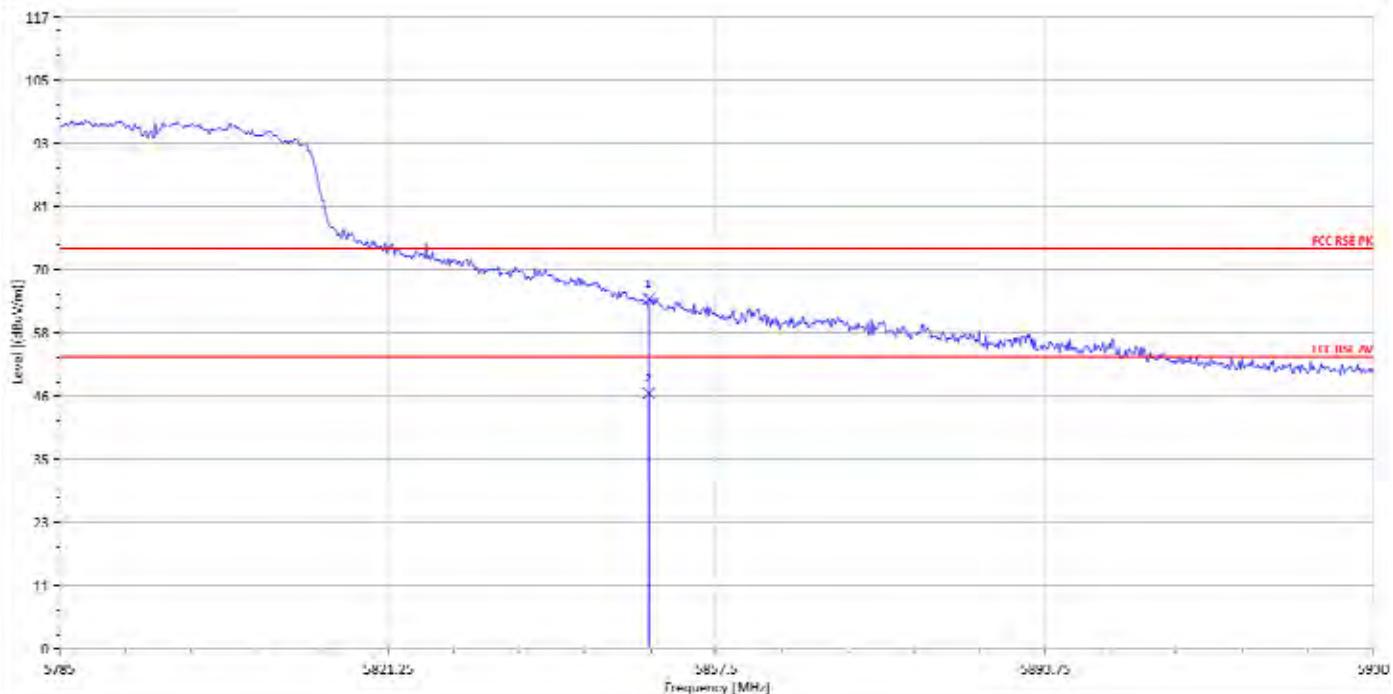
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Operation Mode : 802.11ac40 Test Date : 2016/10/12
Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical



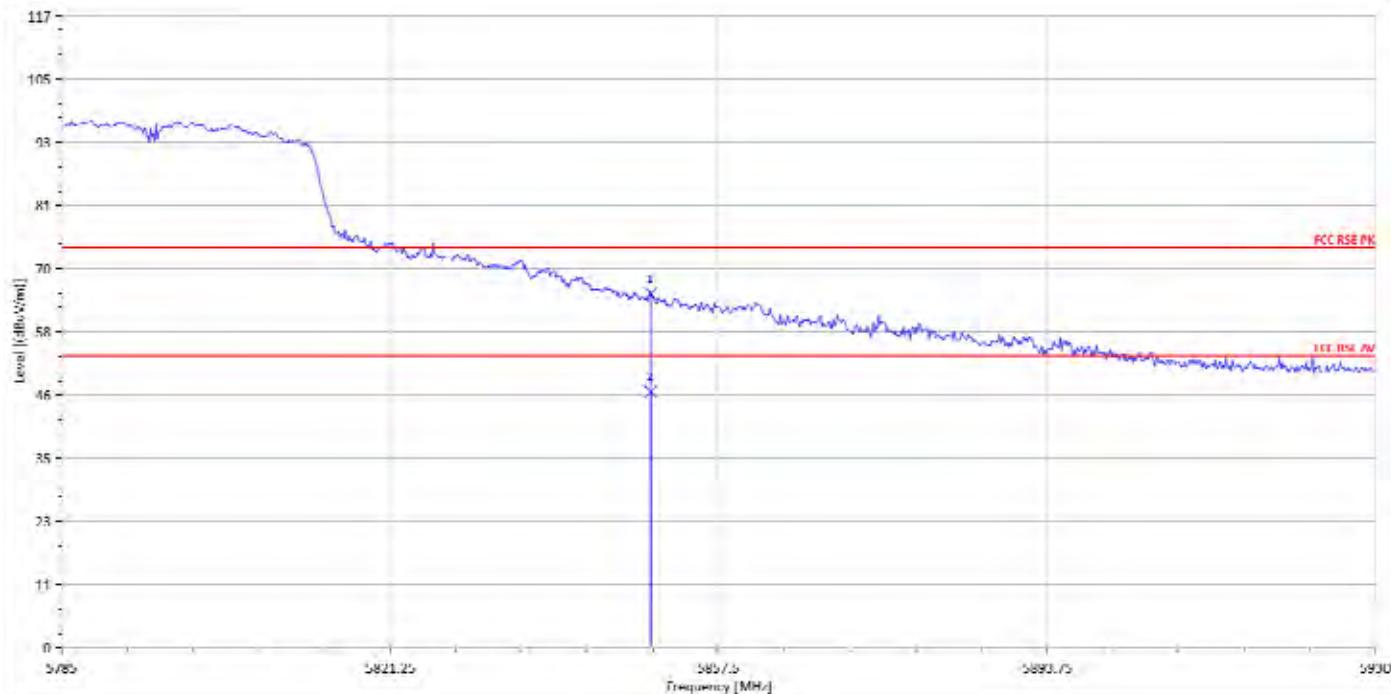
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB
5850.00	E	Peak	55.29	9.49	64.78	74	-9.22
5850.00	E	Average	37.87	9.49	47.36	54	-6.64

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Operation Mode : 802.11ac40 Test Date : 2016/10/12
Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	E	Peak	56.05	9.49	65.54	74	-8.46
5850.00	E	Average	37.95	9.49	47.44	54	-6.56

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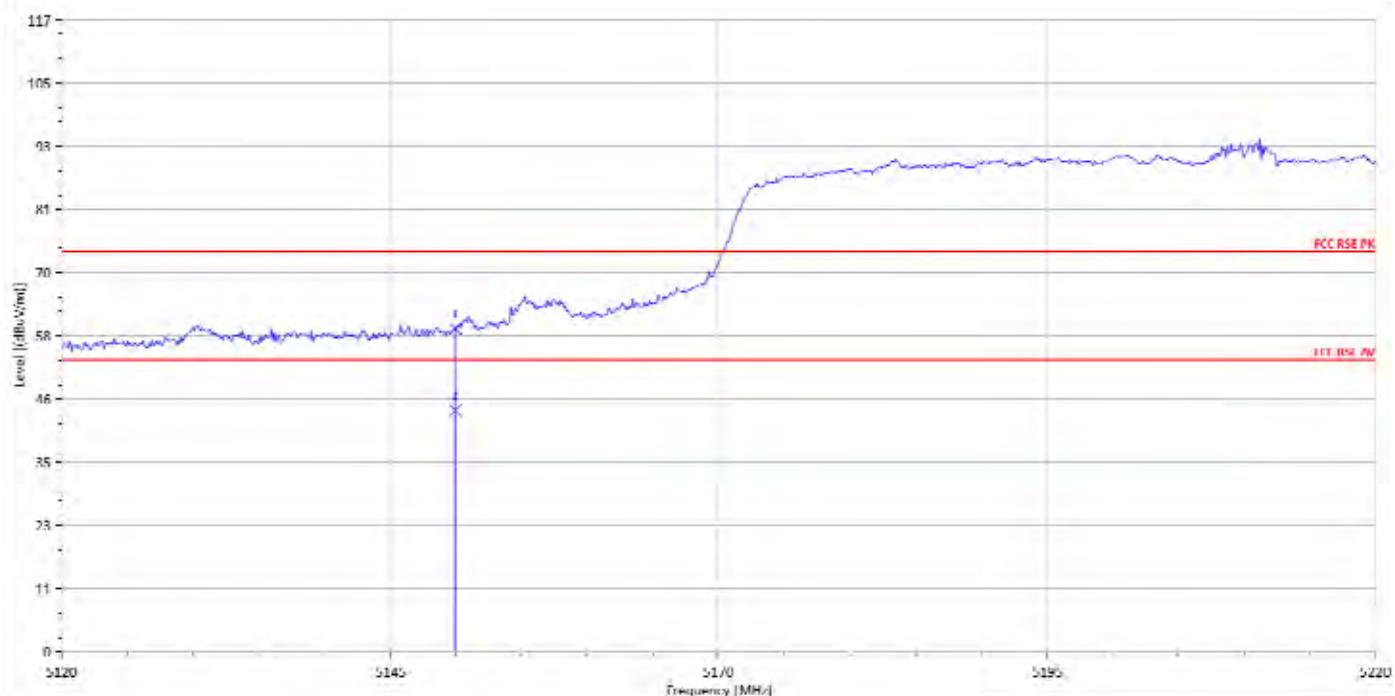
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Band edge falling to restricted band

802.11ac_VHT80 mode

Operation Mode : 802.11ac80 Test Date : 2016/10/12
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



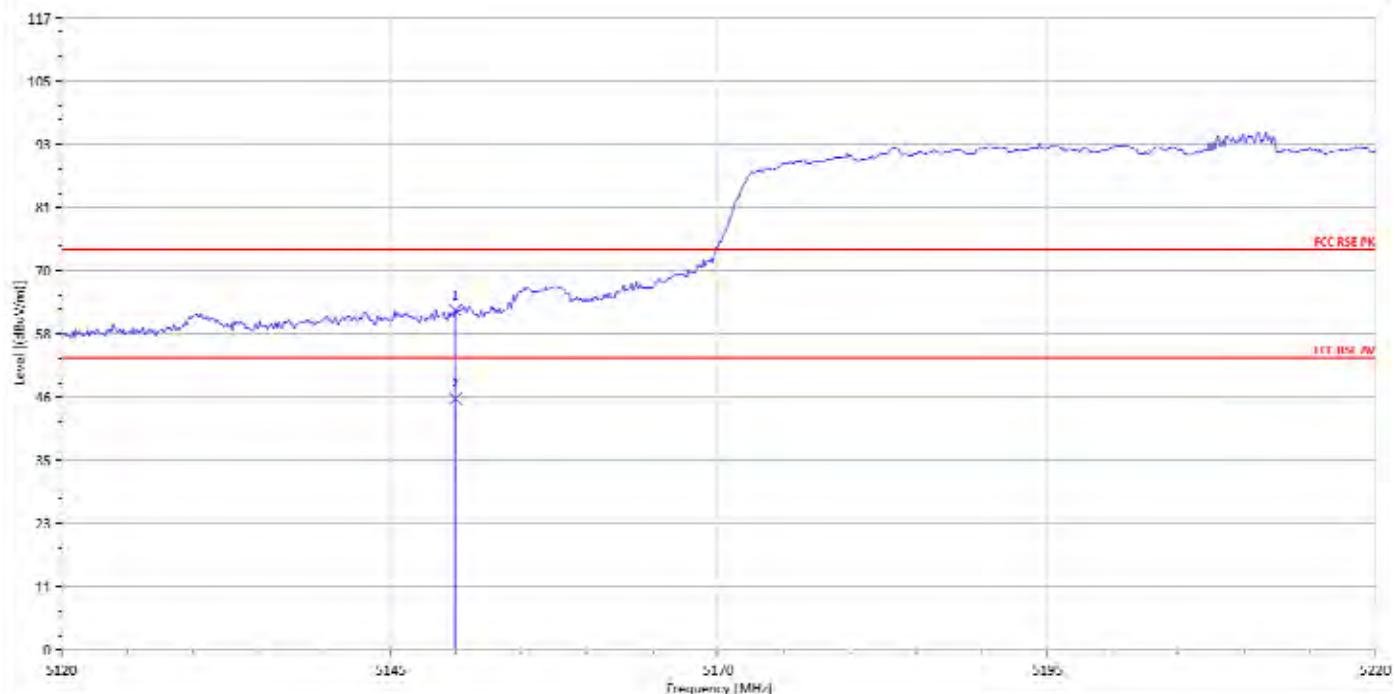
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	E	Peak	51.61	8.19	59.80	74	-14.20
5150.00	E	Average	36.52	8.19	44.71	54	-9.29

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Operation Mode : 802.11ac80 Test Date : 2016/10/12
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	E	Peak	54.69	8.19	62.89	74	-11.11
5150.00	E	Average	38.32	8.19	46.51	54	-7.49

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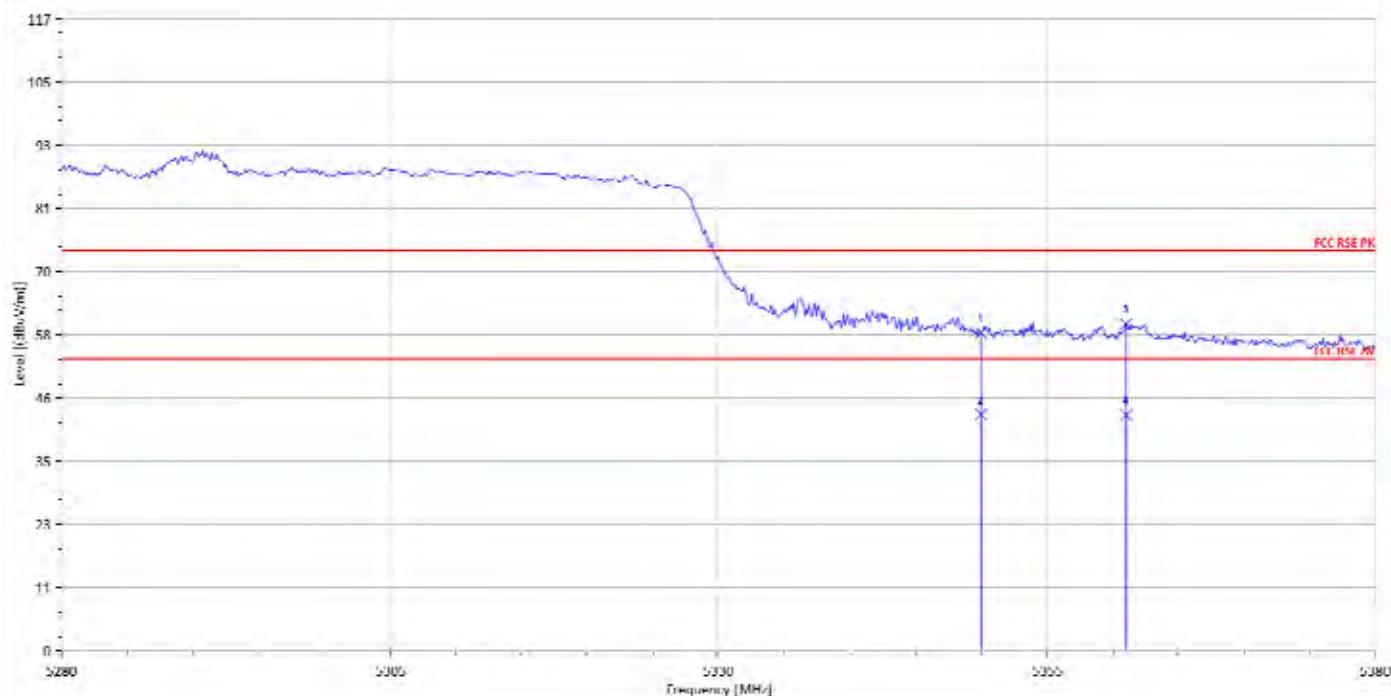
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Operation Mode : 802.11ac80 Test Date : 2016/10/12
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



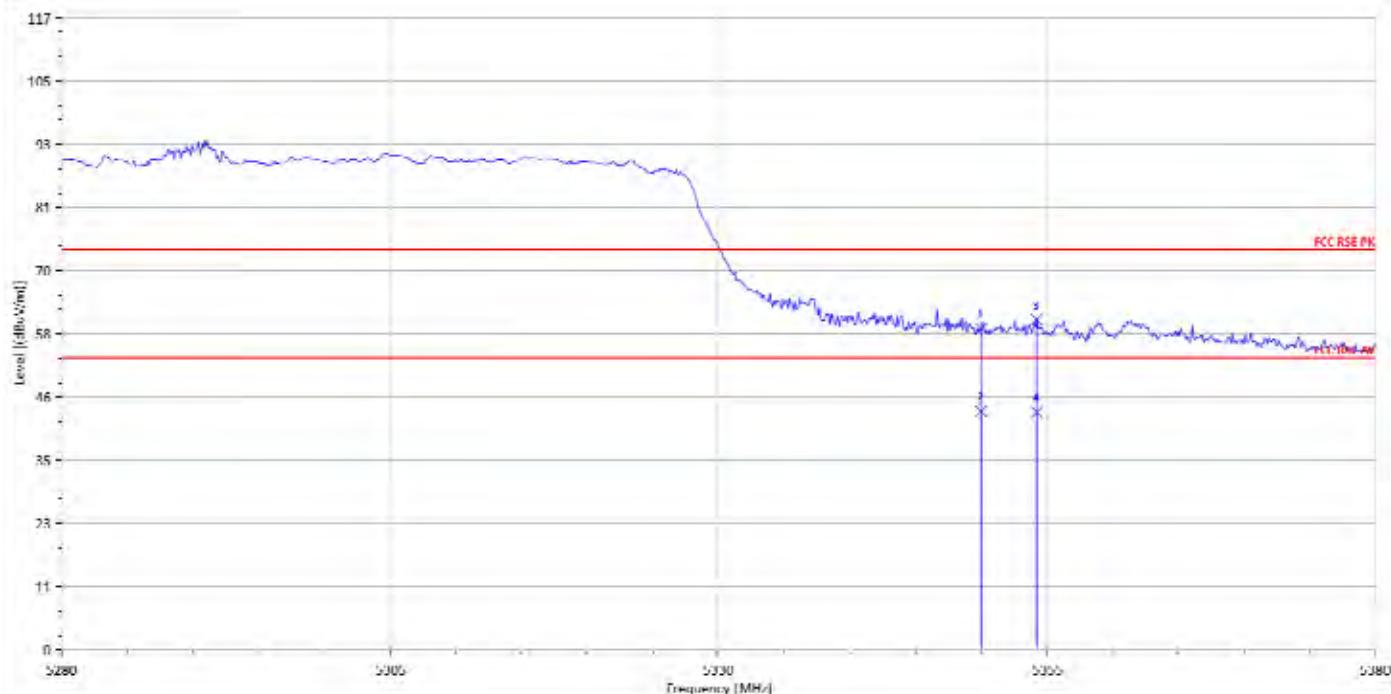
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	S	Peak	49.89	8.96	58.85	74	-15.15
5350.00	S	Average	34.80	8.96	43.76	54	-10.24
5361.00	S	Peak	51.60	8.91	60.50	74	-13.50
5361.00	S	Average	34.74	8.91	43.65	54	-10.35

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 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	E	Peak	50.52	8.96	59.49	74	-14.51
5350.00	E	Average	35.21	8.96	44.17	54	-9.83
5354.20	S	Peak	52.21	8.97	61.19	74	-12.81
5354.20	S	Average	35.03	8.97	44.00	54	-10.00

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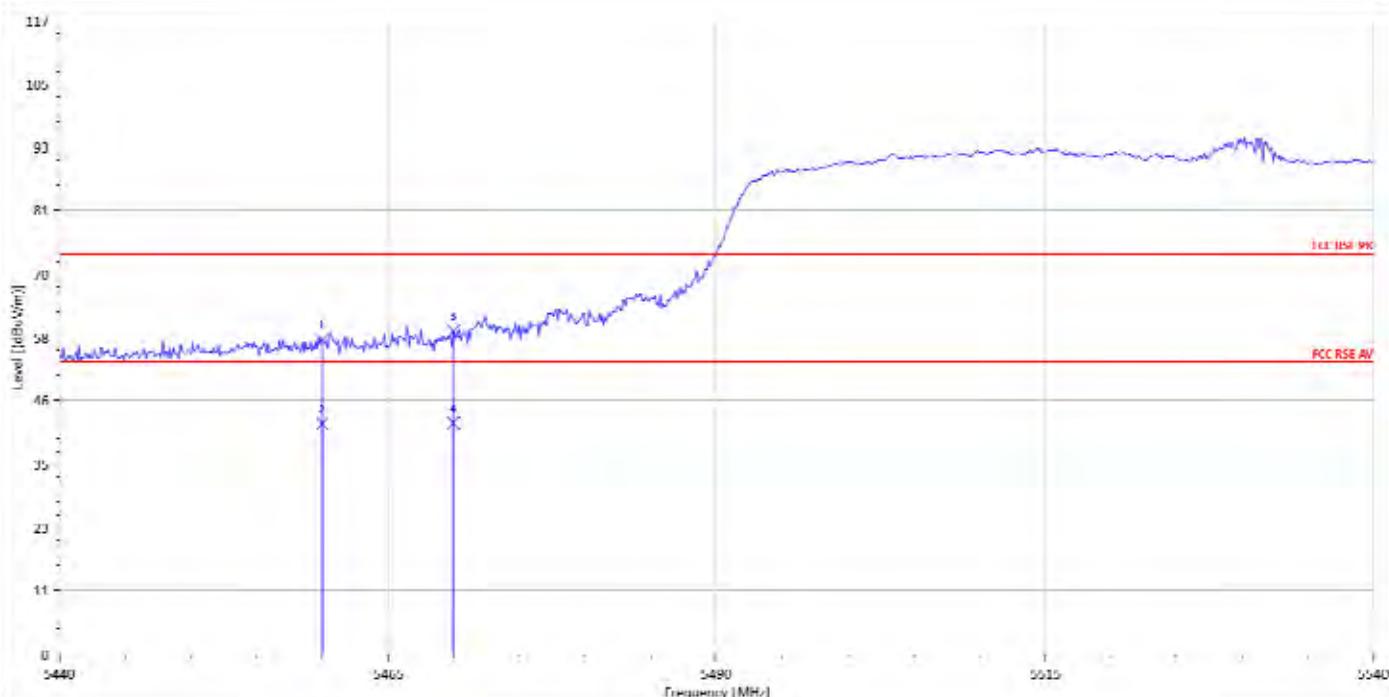
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Operation Mode : 802.11ac80 Test Date : 2016/10/12
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



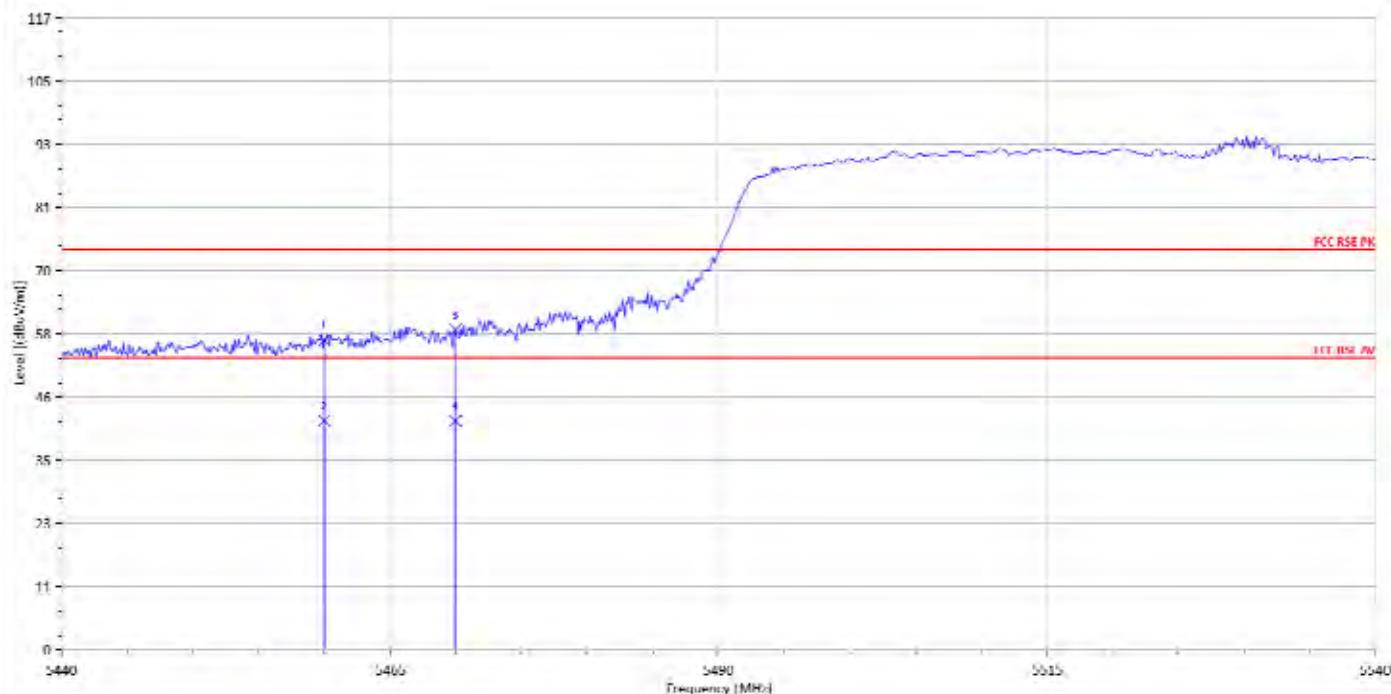
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Reading	Level dB μ V				
5460.00	E	Peak	49.13	8.88	58.01	74	-15.99	
5460.00	E	Average	33.66	8.88	42.54	54	-11.46	
5470.00	E	Peak	50.83	8.79	59.61	74	-14.39	
5470.00	E	Average	33.89	8.79	42.68	54	-11.32	

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Operation Mode : 802.11ac80 Test Date : 2016/10/12
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	E	Peak	48.42	8.88	57.30	74	-16.70
5460.00	E	Average	33.57	8.88	42.45	54	-11.55
5470.00	E	Peak	50.47	8.79	59.25	74	-14.75
5470.00	E	Average	33.61	8.79	42.40	54	-11.60

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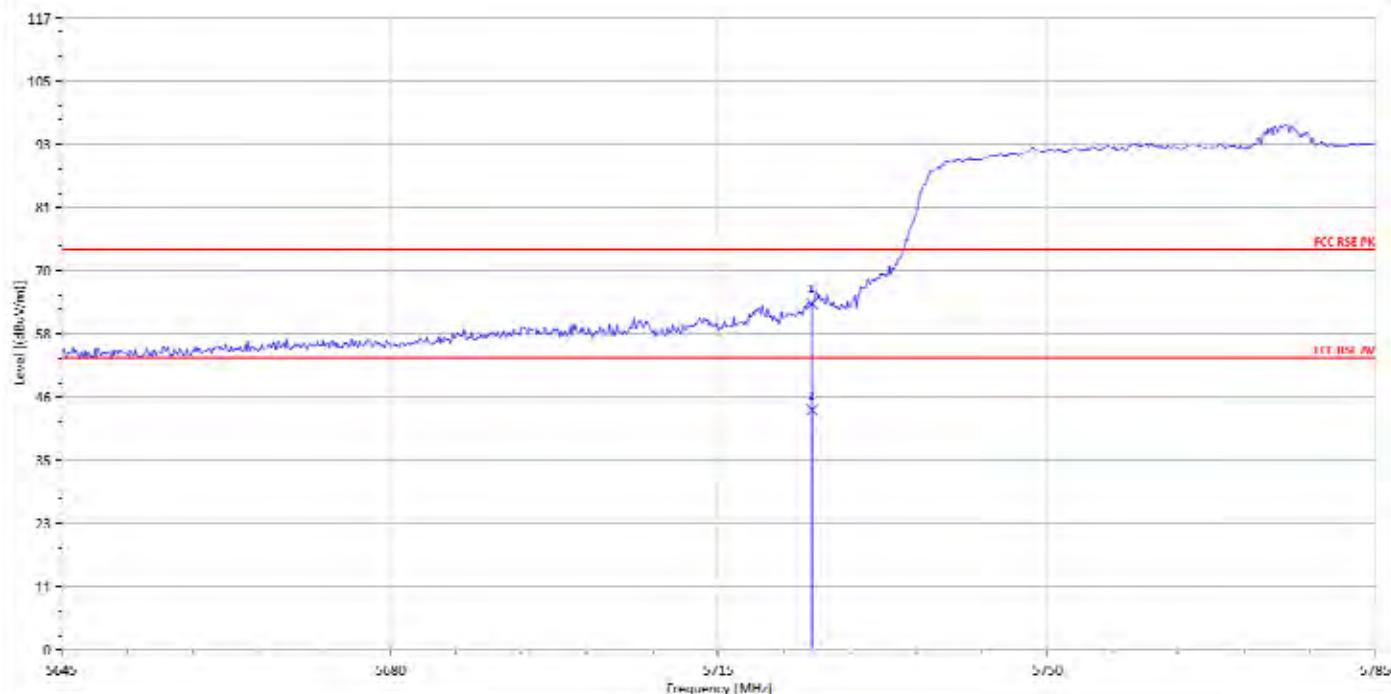
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Operation Mode : 802.11ac80 Test Date : 2016/10/12
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	54.81	9.30	64.11	74	-9.89
5725.00	E	Average	35.11	9.30	44.41	54	-9.59

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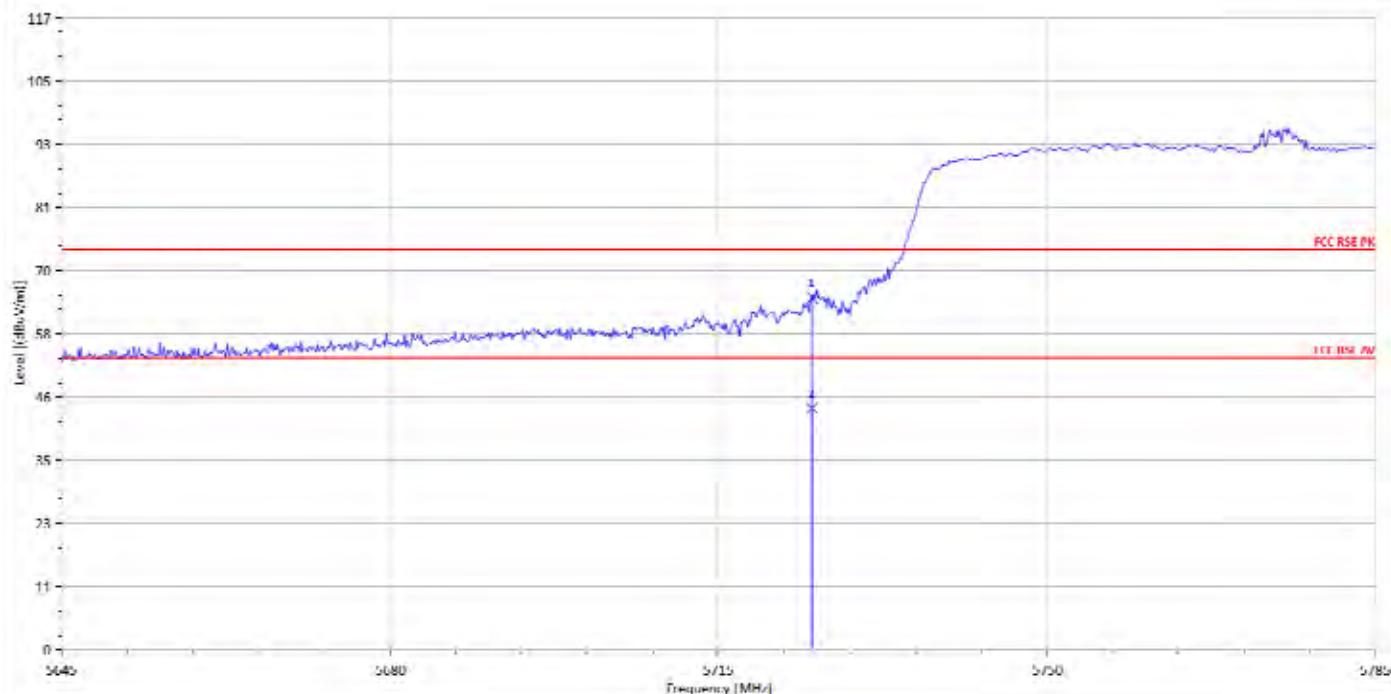
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Operation Mode : 802.11ac80 Test Date : 2016/10/12
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	55.91	9.30	65.21	74	-8.79
5725.00	E	Average	35.45	9.30	44.75	54	-9.25

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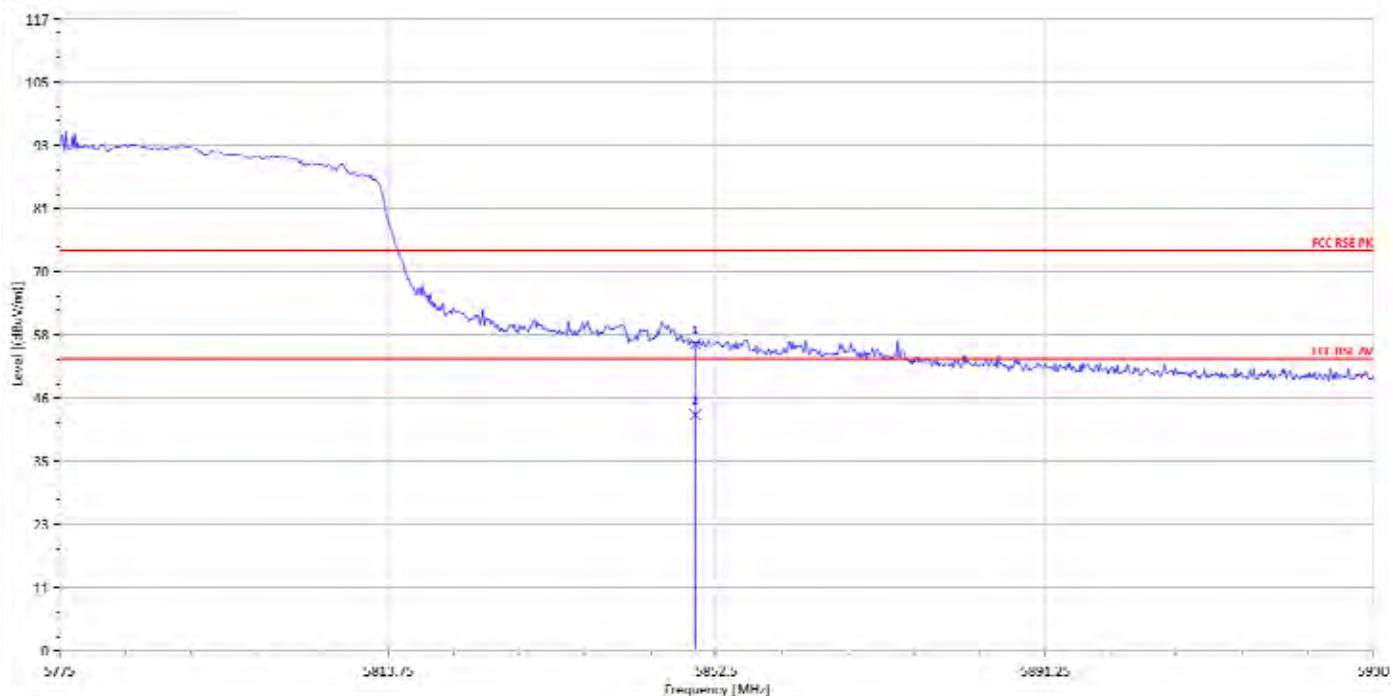
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Operation Mode : 802.11ac80 Test Date : 2016/10/12
Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical



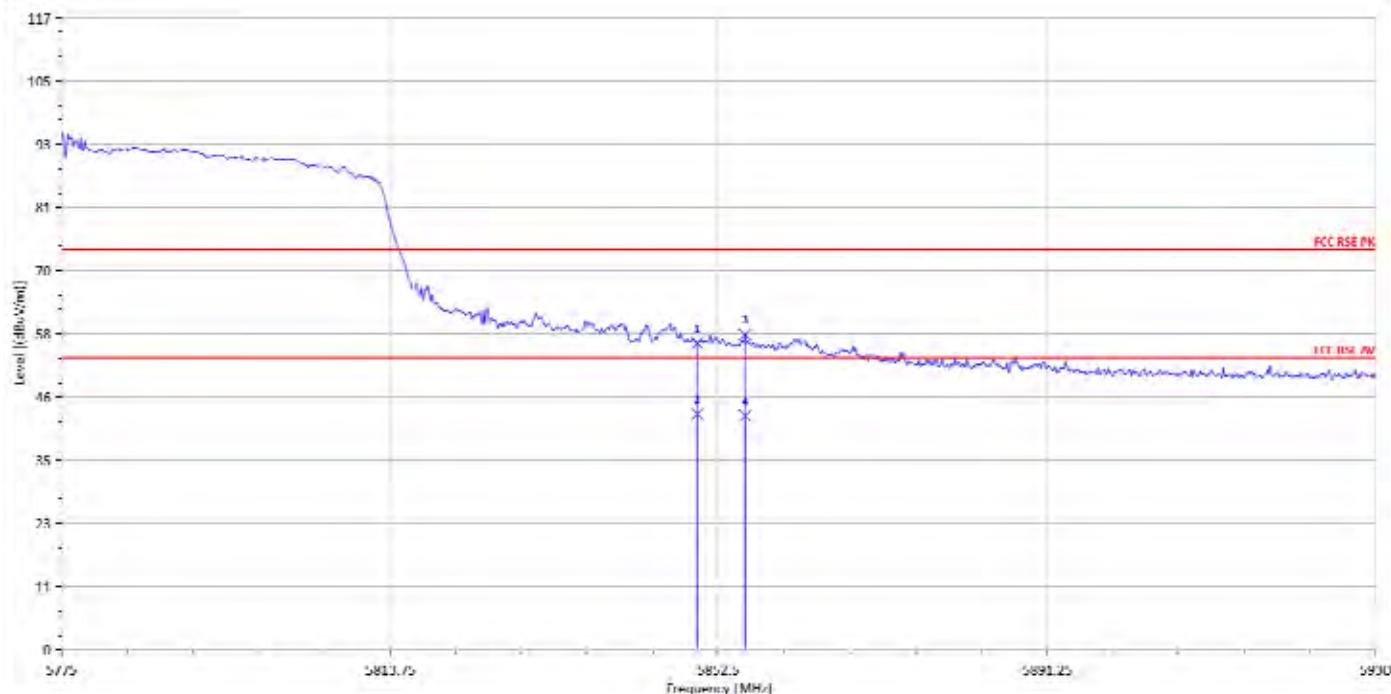
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	E	Peak	47.26	9.49	56.75	74	-17.25
5850.00	E	Average	34.23	9.49	43.72	54	-10.28

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Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Reading	Level dB μ V				
5850.00	E	Peak	47.25	47.25	9.49	56.74	74	-17.26
5850.00	E	Average	34.16	34.16	9.49	43.65	54	-10.35
5855.60	S	Peak	48.75	48.75	9.59	58.34	74	-15.66
5855.60	S	Average	33.74	33.74	9.59	43.33	54	-10.67

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9. ANTENNA REQUIREMENT

9.1 Standard Applicable

For intentional device, 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.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

According to RSS-GEN 8.3

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.⁹ When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

9.2 Antenna Connected Construction

An embedded-in 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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