

## 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:** 802.11a/b/g/n/ac + BT4.1 M.2 2230 Type Card  
**Brand Name:** Qualcomm Atheros  
**Model No.:** QCNFA344A  
**Model Difference:** N/A  
**FCC ID:** PPD-QCNFA344AH  
**IC:** 4104A-QCNFA344A  
**Report No.:** E2/2016/70061  
**Issue Date:** Aug. 02, 2016  
**FCC Rule Part:** §15.407  
**IC Rule Part:** RSS-247 issue 1:2015  
**Prepared for:** Qualcomm Atheros, Inc.  
1700 Technology Drive, San Jose, CA 95110  
**Prepared by:** 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:** 802.11a/b/g/n/ac + BT4.1 M.2 2230 Type Card

**Brand Name:** Qualcomm Atheros

**Model No.:** QCNFA344A

**Model Difference:** N/A

**FCC ID:** PPD-QCNFA344AH

**IC:** 4104A-QCNFA344A

**File Number:** E2/2016/70061

**Date of test:** Jul. 06, 2016 ~ Jul. 27, 2016

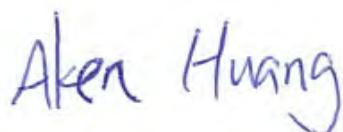
**Date of EUT Received:** Jul. 06, 2016

### 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:**

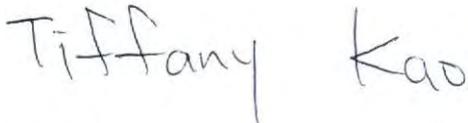


**Date:**

Aug. 02, 2016

**Aken Huang / Engineer**

**Prepared By:**

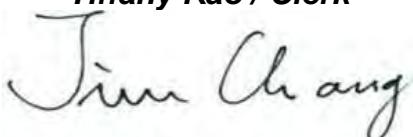


**Date:**

Aug. 02, 2016

**Tiffany Kao / Clerk**

**Approved  
By:**



**Date:**

Aug. 02, 2016

**Jim Chang / Asst. Manager**

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## Revision History

Report Number	Revision	Description	Issue Date
E2/2016/70060	Rev.00	Initial creation of document	Aug. 02, 2016

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## 1. GENERAL INFORMATION

### 1.1. Product Description

General Information of Host:

Product Name of Host:	Notebook Computer	
Brand Name:		
Model No. of Host:	N16P5	
Model Difference:	N/A	
Hardware Version:	R 1.2	
Software Version:	Win 10	
Model No. of BT/WLAN Module:	QCNFA344A	
Module FCC ID:	PPD-QCNFA344AH	
Module IC:	4104A-QCNFA344A	
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:	802.11a/b/g/n/ac + BT4.1 M.2 2230 Type Card (QCNFA344A) INSTALLED IN Notebook Computer	
Power Supply:	15.2Vdc from Rechargeable Li-ion Battery or 19V by AC/DC Power Adapter	
	Battery:	Model No.: AC14B3K; Supplier: Panasonic
	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: 15.08dBm EIRP: 16.07dBm	OFDM	17M0D1D
	5250~5350	4	Avg. Power: 15.88dBm EIRP: 16.25dBm		16M6D1D
	5470~5725	12	Avg. Power: 16.42dBm EIRP: 17.53dBm		16M6D1D
	5725~5850	5	Avg. Power: 16.44dBm EIRP: 18.20dBm		16M9D1D
11n / ac_20M	HT20 / VHT20 5150~5250	4	Avg. Power: (MIMO Chain 0+1): 15.35dBm EIRP: (MIMO Chain 0+1): 16.34dBm	OFDM	17M5D1D
	HT20 / VHT20 5250~5350	4	Avg. Power: (MIMO Chain 0+1): 15.32dBm EIRP: (MIMO Chain 0+1): 15.69dBm		17M6D1D
	HT20 / VHT20 5470~5725	12	Avg. Power: (MIMO Chain 0+1): 16.39dBm EIRP (MIMO Chain 0+1): 17.50dBm		17M5D1D
	HT20 / VHT20 5725~5850	5	Avg. Power: (MIMO Chain 0+1): 16.17dBm HT20: 13.10dBm EIRP (MIMO Chain 0+1): 18.05dBm		17M8D1D

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11n / ac_40M	HT40 / VHT40 5150-5250	2	Avg. Power: (MIMO Chain 0+1): 14.39dBm EIRP (MIMO Chain 0+1): 15.38dBm	OFDM	36M2D1D
	HT40 / VHT40 5250-5350	2	Avg. Power: (MIMO Chain 0+1): 14.51dBm EIRP (MIMO Chain 0+1): 14.88dBm		36M2D1D
	HT40 / VHT40 5470-5725	6	Avg. Power: (MIMO Chain 0+1): 15.96dBm EIRP (MIMO Chain 0+1): 17.07dBm		36M2D1D
	HT40 / VHT40 5725-5850	2	Avg. Power: (MIMO Chain 0+1): 15.59dBm EIRP (MIMO Chain 0+1): 17.47dBm		36M2D1D
11ac_80M	VHT80 5150~5250	1	Avg. Power: (MIMO Chain 0+1): 10.06dBm EIRP (MIMO Chain 0+1): 10.55dBm	OFDM	75M1D1D
	VHT80 5250~5350	1	Avg. Power: (MIMO Chain 0+1): 11.93dBm EIRP (MIMO Chain 0+1): 12.30dBm		75M1D1D
	VHT80 5470~5725	3	Avg. Power: (MIMO Chain 0+1): 14.07dBm EIRP (MIMO Chain 0+1): 15.18dBm		74M6D1D
	VHT80 5725-5850	1	Avg. Power: (MIMO Chain 0+1): 9.57dBm EIRP (MIMO Chain 0+1): 11.45dBm		75M0D1D

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Antenna Designation	1. PIFA Antenna, Part No.: 81EAAL15.GET, Gain: -2.02dBi (5150MHz-5250MHz) (Main) Gain: -2.64dBi (5250MHz-5350MHz) (Main) Gain: -1.90dBi (5470MHz-5725MHz) (Main) Gain: -1.13dBi (5725MHz-5850MHz) (Main) 2. PIFA Antenna, Part No.: 81EAAL15.GET, Gain: -2.18dBi (5150MHz-5350MHz) (Aux) Gain: -3.15dBi (5250MHz-5350MHz) (Aux) Gain: -2.54dBi (5470MHz-5725MHz) (Aux) Gain: -2.58dBi (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 – 144Mbps 802.11 n/ac_40MHz: 13.5 – 300Mbps 802.11 ac_80MHz: 29.3 – 866.7Mbps

## 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:	
Model No. of Host:	N16P5
Model Difference:	N/A
Module FCC ID:	PPD-QCNFA344AH
Module IC :	4104A-QCNFA344A
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 v01

FCC KDB 662911 D01 Multiple Transmitter Output v02

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:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.

### 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: 628985

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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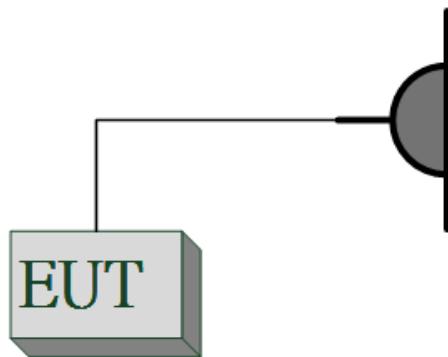
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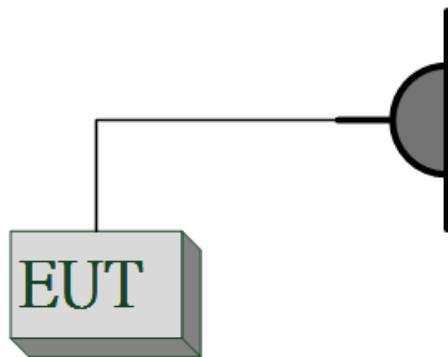
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## 2.5. Configuration of Tested System

**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	2TX
802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	2TX
802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	2TX
802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_VHT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	2TX
802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5755	155	155	OFDM	MCS8	MIMO

**Note:**

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n/ac WLAN Transmitter for channel Low, Mid and High, the worst case E2 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	2TX
802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	2TX
802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	2TX
802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_VHT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122, 138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	2TX
802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5755	155	155	OFDM	MCS8	MIMO

Pre-scanned was done on Antenna Main and Antenna Aux, and Antenna Main results higher emission at 5GHz. Therefore, the completed set of measurement was done on Antenna Main to be presented on this test report.

For radiation spurious emission test relevant n/ac\_VHT20&VHT40&VHT80, MIMO mode that generates the higher emission is chosen to be tested in comparison with transmission at MIMO mode.

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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 : <b>Vertical</b> )	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : <b>Horizontal</b> )	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. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 6.1 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.

Note: Directional gain = gain of antenna element +  $10 \log (\# \text{ of TX antenna elements})$

Effective Legacy Gain =  $-2.02 + 3.01 = 0.99 \text{ dBi}$  (5150MHz-5250MHz)

Effective Legacy Gain =  $-2.64 + 3.01 = 0.37 \text{ dBi}$  (5250MHz-5350MHz)

Effective Legacy Gain =  $-1.90 + 3.01 = 1.11 \text{ dBi}$  (5470MHz-5725MHz)

Effective Legacy Gain =  $-1.13 + 3.01 = 1.88 \text{ dBi}$  (5725MHz-5850MHz)

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## 6.2 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  $10^{\log(1/x)}$ ,  $n_{HT20}=0.10$ ,  $n_{HT40}=0.12$
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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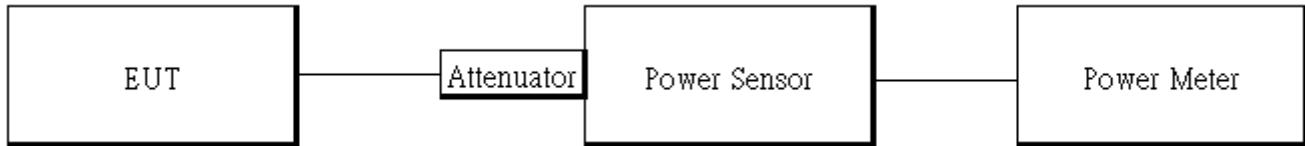
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### 6.3 Measurement Equipment Used:

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

### 6.4 Test Set-up:



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## 6.5 Measurement Result

802.11a

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
36	5180	12.26	11.88	<b>15.08</b>	<b>32.244</b>	23.98	PASS
44	5220	11.49	11.36	14.44	27.770	23.98	PASS
48	5240	11.66	11.57	14.63	29.010	23.98	PASS
52	5260	12.11	12.07	15.10	32.362	23.98 or 11+10log(B) =24.26	PASS
60	5300	12.54	13.17	<b>15.88</b>	<b>38.696</b>	23.98 or 11+10log(B) =24.71	PASS
64	5320	12.25	12.79	15.54	35.799	23.98 or 11+10log(B) =23.99	PASS
100	5500	13.44	13.38	<b>16.42</b>	<b>43.857</b>	23.98 or 11+10log(B) =24.02	PASS
116	5580	12.93	12.78	15.87	38.601	23.98 or 11+10log(B) =24.47	PASS
140	5700	10.98	9.76	13.42	21.994	23.98 or 11+10log(B) =23.98	PASS
149	5745	7.63	7.25	10.45	11.103	30	PASS
157	5785	13.18	13.44	<b>16.32</b>	42.877	30	PASS
165	5825	12.67	13.25	15.98	39.628	30	PASS

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## 802.11ac\_VHT20

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
36	5180	12.53	12.15	<b>15.35</b>	<b>34.312</b>	23.98	PASS
44	5220	11.73	11.65	14.70	29.515	23.98	PASS
48	5240	11.69	11.57	14.64	29.112	23.98	PASS
52	5260	11.97	11.94	14.97	31.371	23.98 or $11+10\log(B) = 24.32$	PASS
60	5300	11.91	12.67	<b>15.32</b>	<b>34.017</b>	23.98 or $11+10\log(B) = 24.78$	PASS
64	5320	12.05	12.54	15.31	33.980	23.98 or $11+10\log(B) = 24.31$	PASS
100	5500	13.27	13.49	<b>16.39</b>	<b>43.568</b>	23.98 or $11+10\log(B) = 24.13$	PASS
116	5580	13.14	12.77	15.97	39.530	23.98 or $11+10\log(B) = 24.85$	PASS
140	5700	13.41	13.28	16.36	43.209	23.98 or $11+10\log(B) = 24.26$	PASS
149	5745	7.17	6.99	10.09	10.212	30	PASS
157	5785	12.85	13.44	<b>16.17</b>	<b>41.355</b>	30	PASS
165	5825	12.53	13.13	15.85	38.465	30	PASS

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## 802.11ac\_VHT40

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
38	5190	8.28	8.25	11.28	13.413	23.98	PASS
46	5230	11.43	11.33	14.39	27.483	23.98	PASS
54	5270	11.45	11.54	14.51	28.220	23.98 or $11+10\log(B) = 27.94$	PASS
62	5310	10.79	11.47	14.15	26.023	23.98 or $11+10\log(B) = 27.29$	PASS
102	5510	9.37	9.18	12.29	16.929	23.98 or $11+10\log(B) = 27.23$	PASS
110	5550	11.94	12.27	15.12	32.497	23.98 or $11+10\log(B) = 27.35$	PASS
134	5670	12.77	13.12	15.96	39.435	23.98 or $11+10\log(B) = 27.27$	PASS
151	5755	6.34	5.91	9.14	8.205	30	PASS
159	5795	12.39	12.77	15.59	36.261	30	PASS

## 802.11ac\_VHT80

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
42	5210	6.44	6.65	9.56	9.029	23.98	PASS
58	5290	8.63	9.19	11.93	15.593	23.98 or $11+10\log(B) = 30.19$	PASS
106	5530	9.35	8.56	11.98	15.788	23.98 or $11+10\log(B) = 30.16$	PASS
122	5610	11.09	11.02	14.07	25.500	23.98 or $11+10\log(B) = 30.45$	PASS
138	5690	10.87	10.94	13.92	24.635	23.98 or $11+10\log(B) = 29.85$	PASS
155	5775	6.83	7.25	10.06	10.128	23.98	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	15.08	32.244	0.99	<b>16.07</b>	23.01 or $10+10\log(B) = 22.3$	PASS
44	5220	14.44	27.770		15.43	23.01 or $10+10\log(B) = 22.3$	PASS
48	5240	14.63	29.010		15.62	23.01 or $10+10\log(B) = 22.24$	PASS
52	5260	15.10	32.362	0.37	15.47	30 or $17+10\log(B) = 29.12$	PASS
60	5300	15.88	38.696		<b>16.25</b>	30 or $17+10\log(B) = 29.15$	PASS
64	5320	15.54	35.799		15.91	30 or $17+10\log(B) = 29.15$	PASS
100	5500	16.42	43.857	1.11	<b>17.53</b>	30 or $17+10\log(B) = 29.12$	PASS
116	5580	15.87	38.601		16.98	30 or $17+10\log(B) = 29.19$	PASS
140	5700	13.42	21.994		14.53	30 or $17+10\log(B) = 29.12$	PASS
149	5745	10.45	11.103	1.88	12.33	30	PASS
157	5785	16.32	42.877		<b>18.20</b>	30	PASS
165	5825	15.98	39.628		17.86	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	15.35	34.312	0.99	<b>16.34</b>	23.01 or $10+10\log(B) = 22.43$	PASS
44	5220	14.70	29.515		15.69	23.01 or $10+10\log(B) = 22.43$	PASS
48	5240	14.64	29.112		15.63	23.01 or $10+10\log(B) = 22.43$	PASS
52	5260	14.97	31.371	0.37	15.34	30 or $17+10\log(B) = 29.43$	PASS
60	5300	15.32	34.017		<b>15.69</b>	30 or $17+10\log(B) = 29.43$	PASS
64	5320	15.31	33.980		15.69	30 or $17+10\log(B) = 29.43$	PASS
100	5500	16.39	43.568	1.11	<b>17.50</b>	30 or $17+10\log(B) = 29.43$	PASS
116	5580	15.97	39.530		17.08	30 or $17+10\log(B) = 29.43$	PASS
140	5700	16.36	43.209		17.47	30 or $17+10\log(B) = 29.43$	PASS
149	5745	10.09	10.212	1.88	11.97	30	PASS
157	5785	16.17	41.355		<b>18.05</b>	30	PASS
165	5825	15.85	38.465		17.73	30	PASS

## 802.11ac\_VHT40

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
38	5190	11.28	13.413	0.99	12.27	23.01 or $10+10\log(B) = 25.56$	PASS
46	5230	14.39	27.483		<b>15.38</b>	23.01 or $10+10\log(B) = 25.58$	PASS
54	5270	14.51	28.220	0.37	<b>14.88</b>	30 or $17+10\log(B) = 32.58$	PASS
62	5310	14.15	26.023		14.52	30 or $17+10\log(B) = 32.56$	PASS
102	5510	12.29	16.929	1.11	13.40	30 or $17+10\log(B) = 32.56$	PASS
110	5550	15.12	32.497		16.23	30 or $17+10\log(B) = 32.58$	PASS
134	5670	15.96	39.435		<b>17.07</b>	30 or $17+10\log(B) = 32.56$	PASS
151	5755	9.14	8.205	1.88	11.02	30	PASS
159	5795	15.59	36.261		<b>17.47</b>	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	9.56	9.029	0.99	<b>10.55</b>	23.01 or $10+10\log(B) = 28.75$	PASS
58	5290	11.93	15.593	0.37	<b>12.30</b>	30 or $17+10\log(B) = 35.75$	PASS
106	5530	11.98	15.788	1.11	13.09	30 or $17+10\log(B) = 35.72$	PASS
122	5610	14.07	25.500		<b>15.18</b>	30 or $17+10\log(B) = 35.75$	PASS
138	5690	13.92	24.660		<b>15.03</b>	30 or $17+10\log(B) = 35.59$	PASS
155	5775	9.57	9.057	1.88	<b>11.45</b>	30	PASS

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

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## 7. UNDESIRABLE EMISSION - RADIATED MEASUREMENT

### 7.1 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 $\mu$ V/m)	AV 54 (dB $\mu$ 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 $\mu$ 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 $\mu$ V/m) *1 PK:105.2 (dB $\mu$ V/m) *2 PK: 110.8(dB $\mu$ V/m) *3 PK:122.2 (dB $\mu$ 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 $\mu$ V/m) = 20 log Emission level (dB $\mu$ V/m)

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## 7.2 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.

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

SGS 966 Chamber No.C					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Horn Antenna	Schwarzbeck	BBHA9170	185	07/18/2016	07/17/2017

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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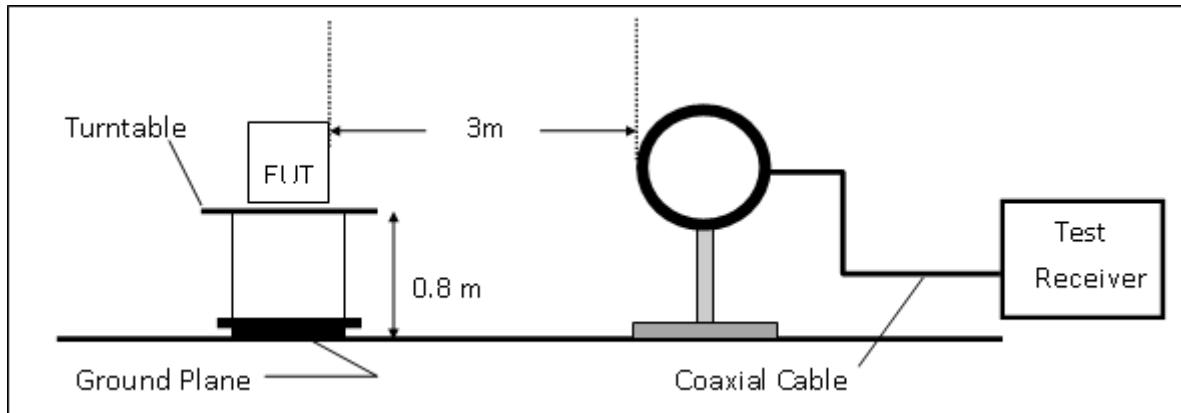
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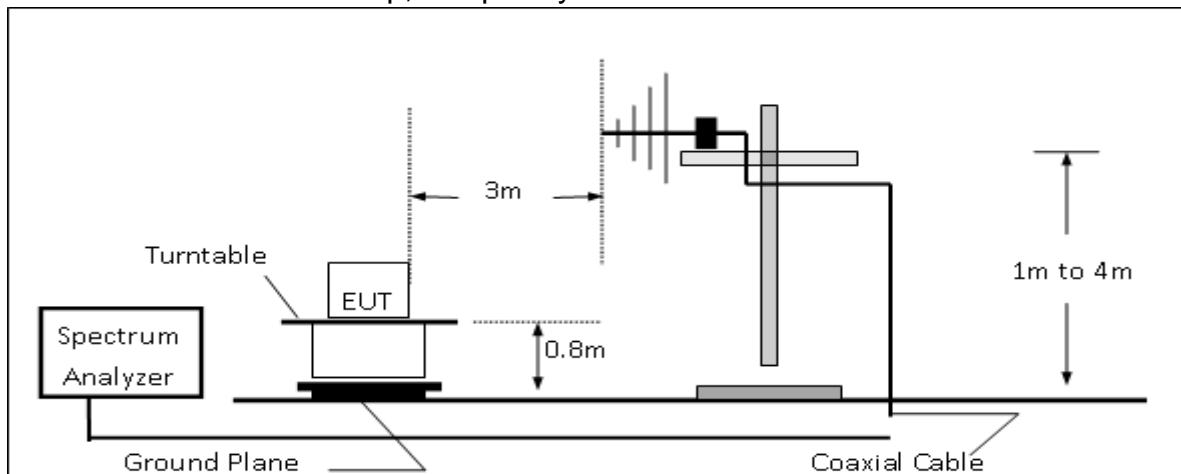
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### 7.3 Test SET-UP

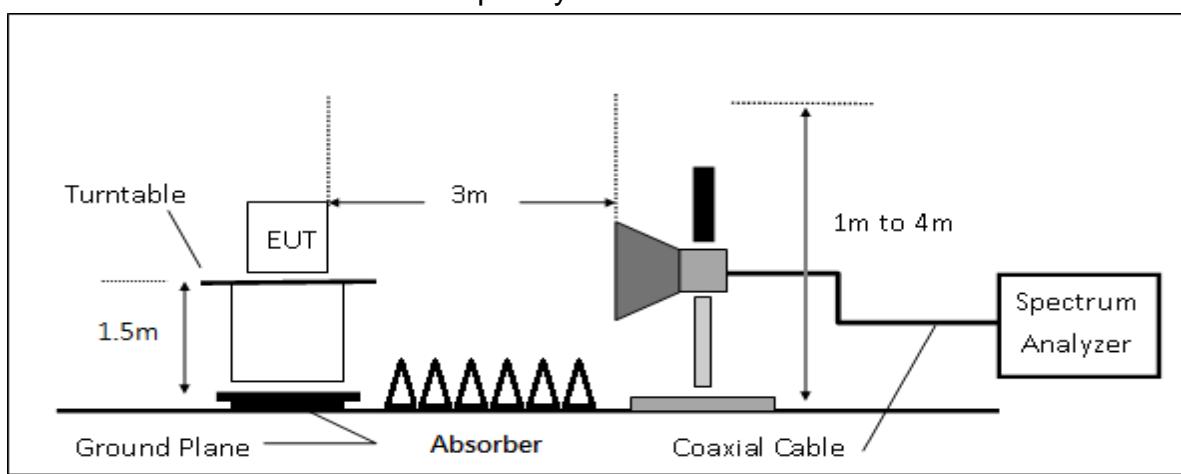
#### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



#### (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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## 7.4 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.

## 7.5 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 $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ 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.

## 7.6 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.

## 7.7 Measurement Result

Refer to attach tabular data sheets.

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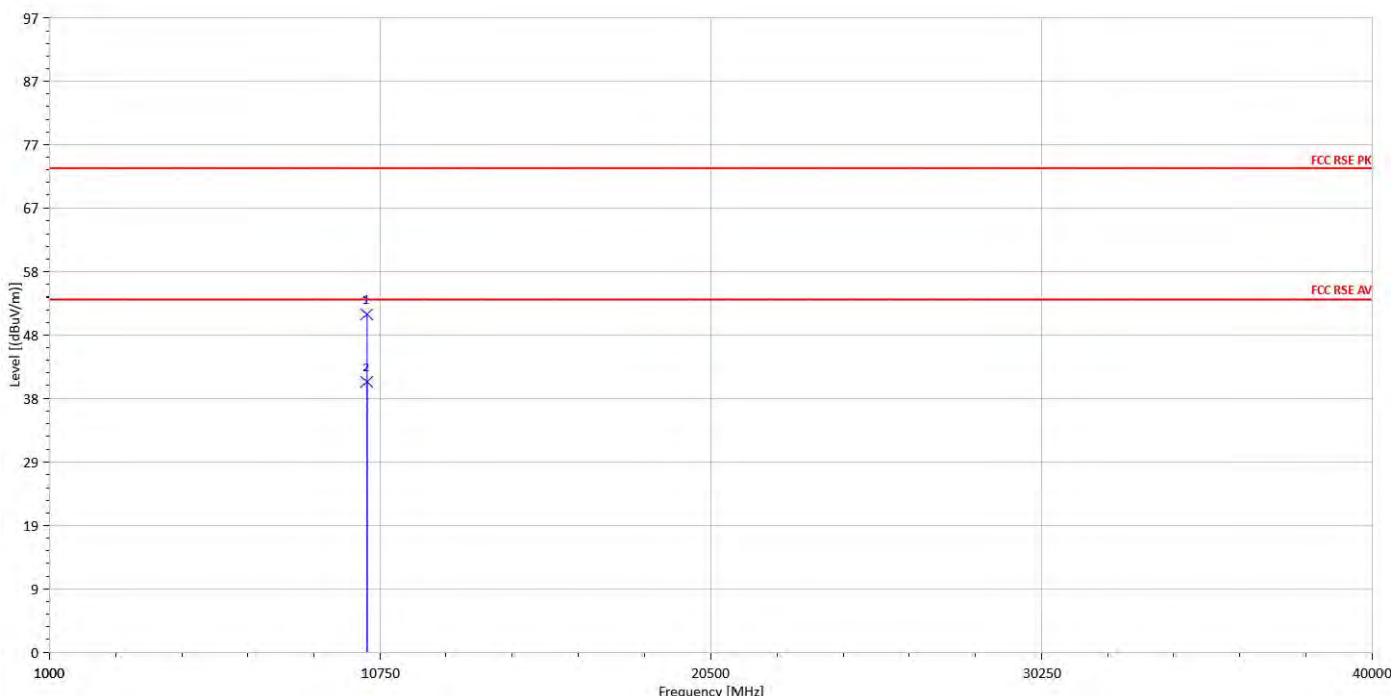
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**Radiated Spurious Emission Measurement Result****Above 1GHz Worst-Case Data:****802.11a, 5150~5250 MHz**

Operation Mode : 802.11a Test Date : 2016/7/5  
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : H Measurement Antenna Pol. : Vertical



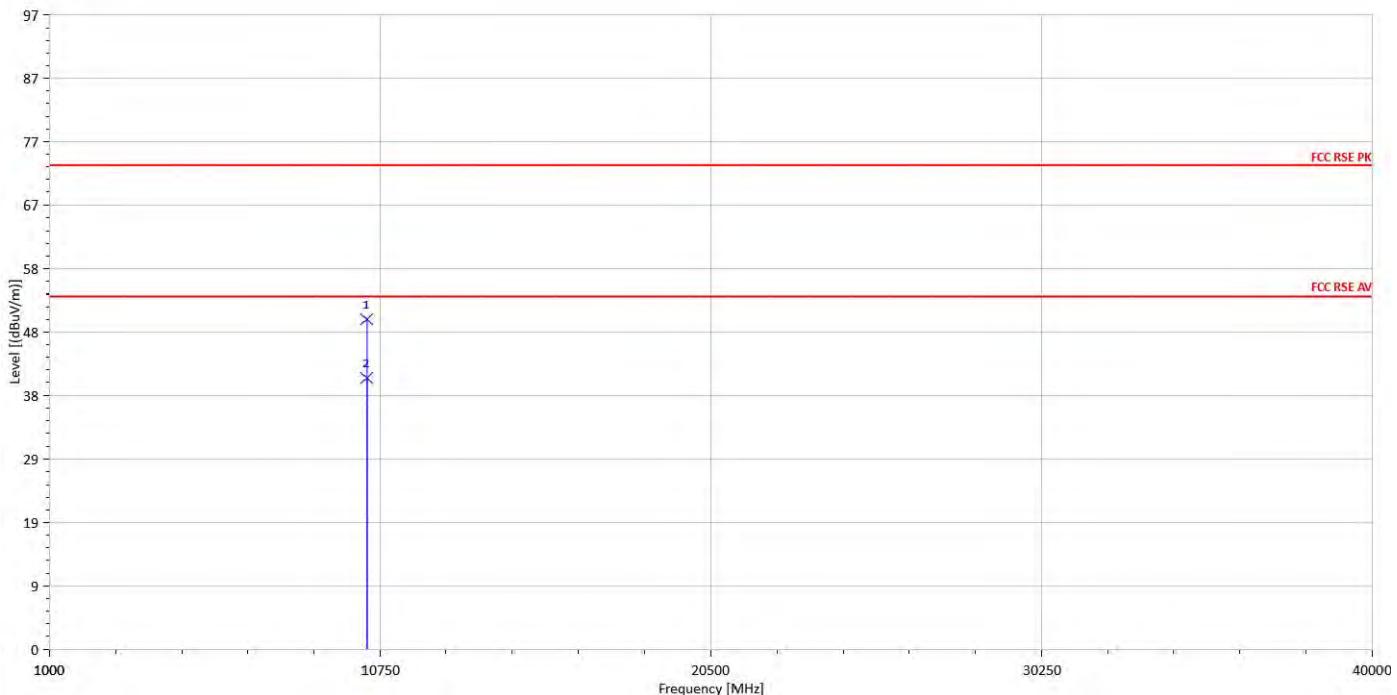
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	H	Peak	31.55	20.18	51.73	74	-22.27
10360.00	H	Average	21.13	20.18	41.31	54	-12.69

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



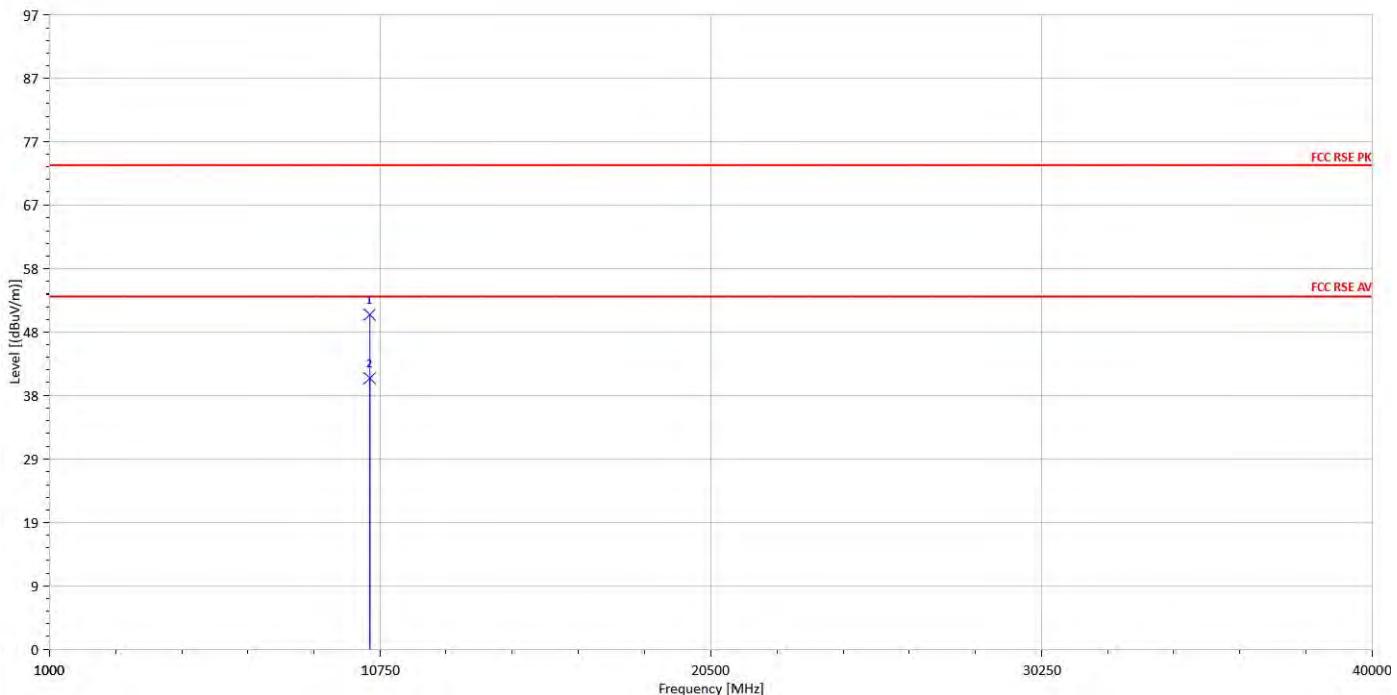
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10360.00	H	Peak	30.31	20.18	50.49	74	-23.51
10360.00	H	Average	21.25	20.18	41.43	54	-12.57

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : H Measurement Antenna Pol. : Vertical



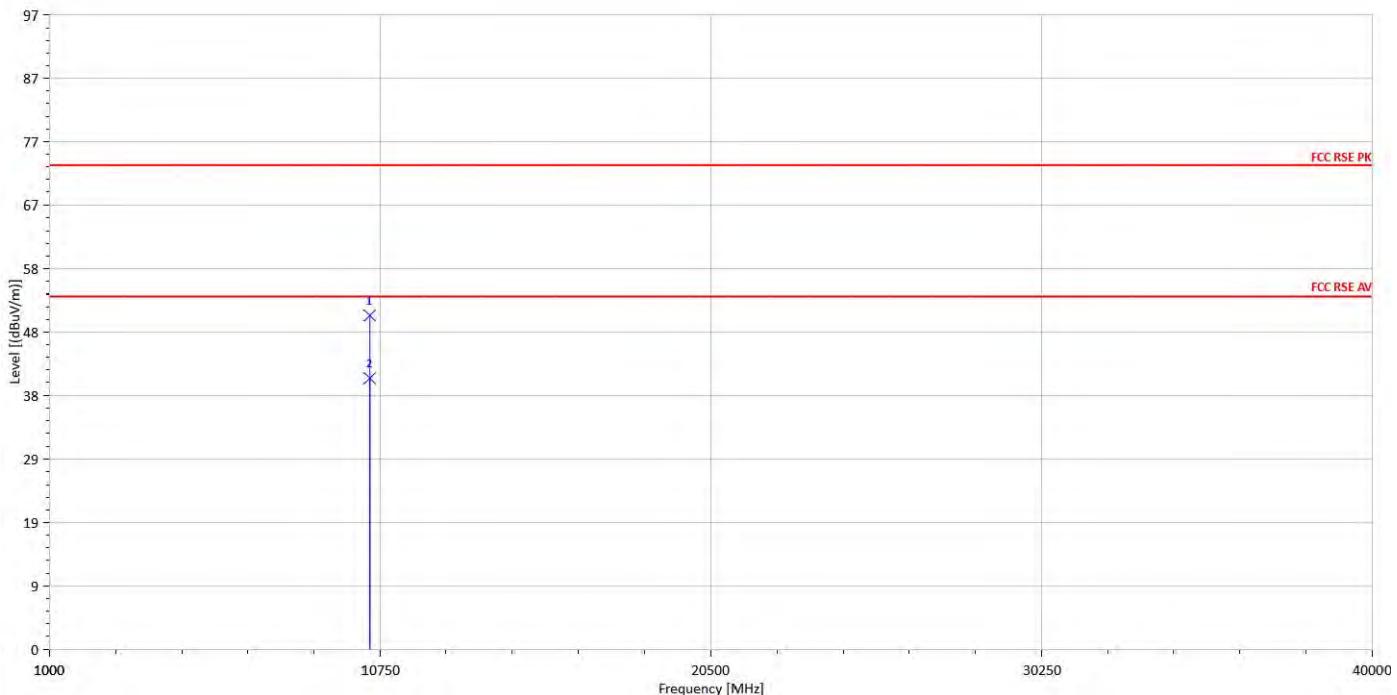
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	H	Peak	30.91	20.29	51.21	74	-22.79
10440.00	H	Average	21.10	20.29	41.39	54	-12.61

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



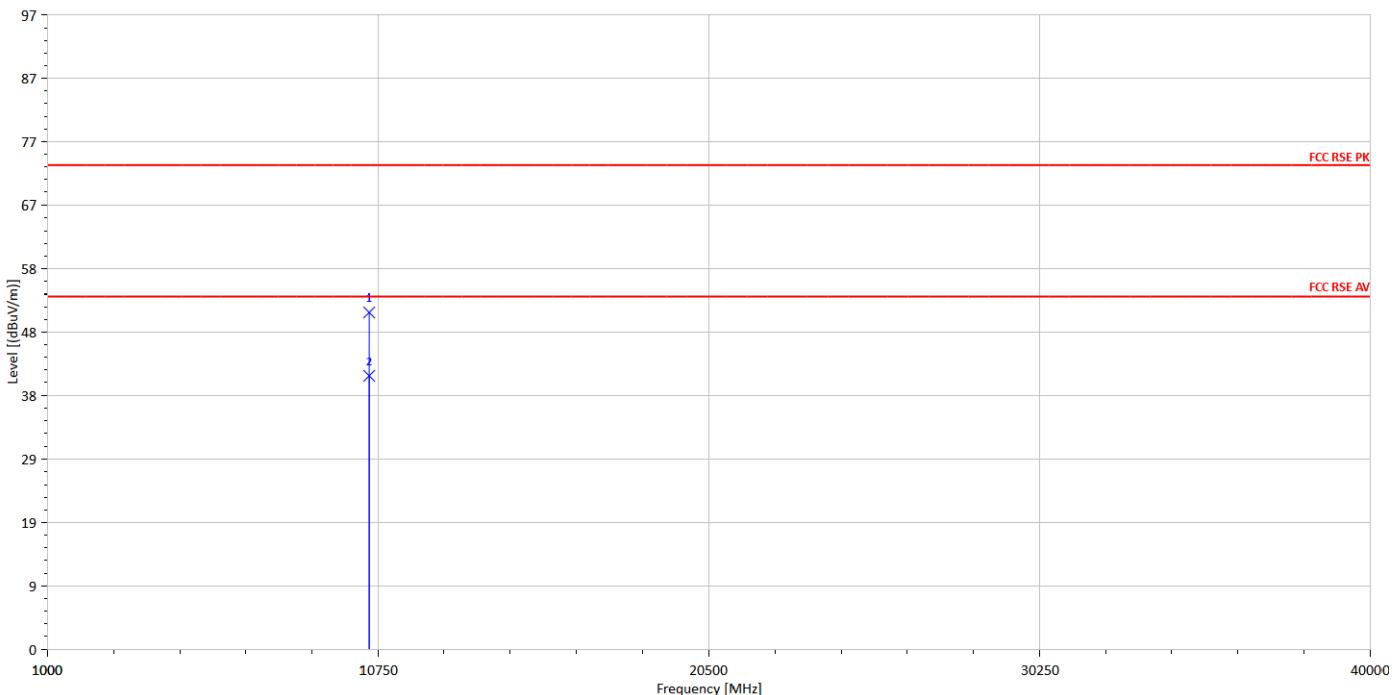
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	H	Peak	30.79	20.29	51.09	74	-22.91
10440.00	H	Average	21.10	20.29	41.39	54	-12.61

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : H Measurement Antenna Pol. : Vertical



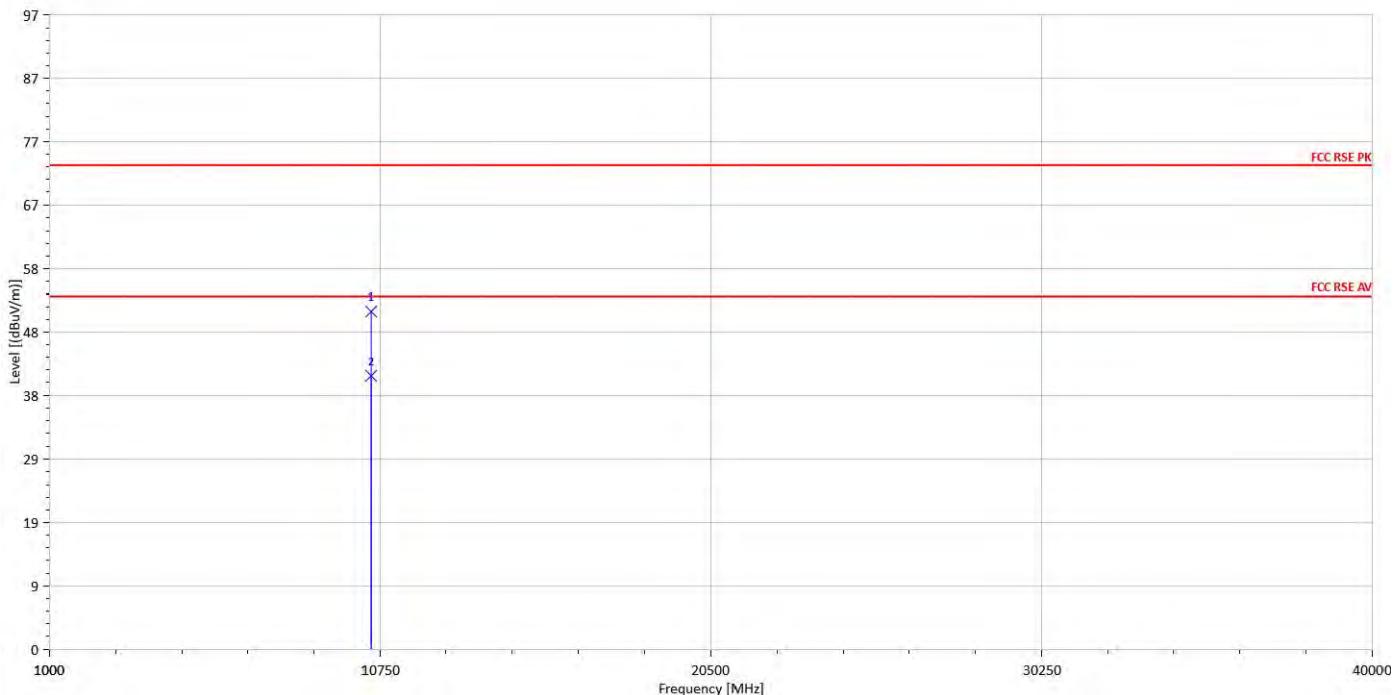
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	H	Peak	30.86	20.68	51.54	74	-22.46
10480.00	H	Average	21.08	20.68	41.76	54	-12.24

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx 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 dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	H	Peak	31.01	20.68	51.69	74	-22.31
10480.00	H	Average	21.09	20.68	41.77	54	-12.23

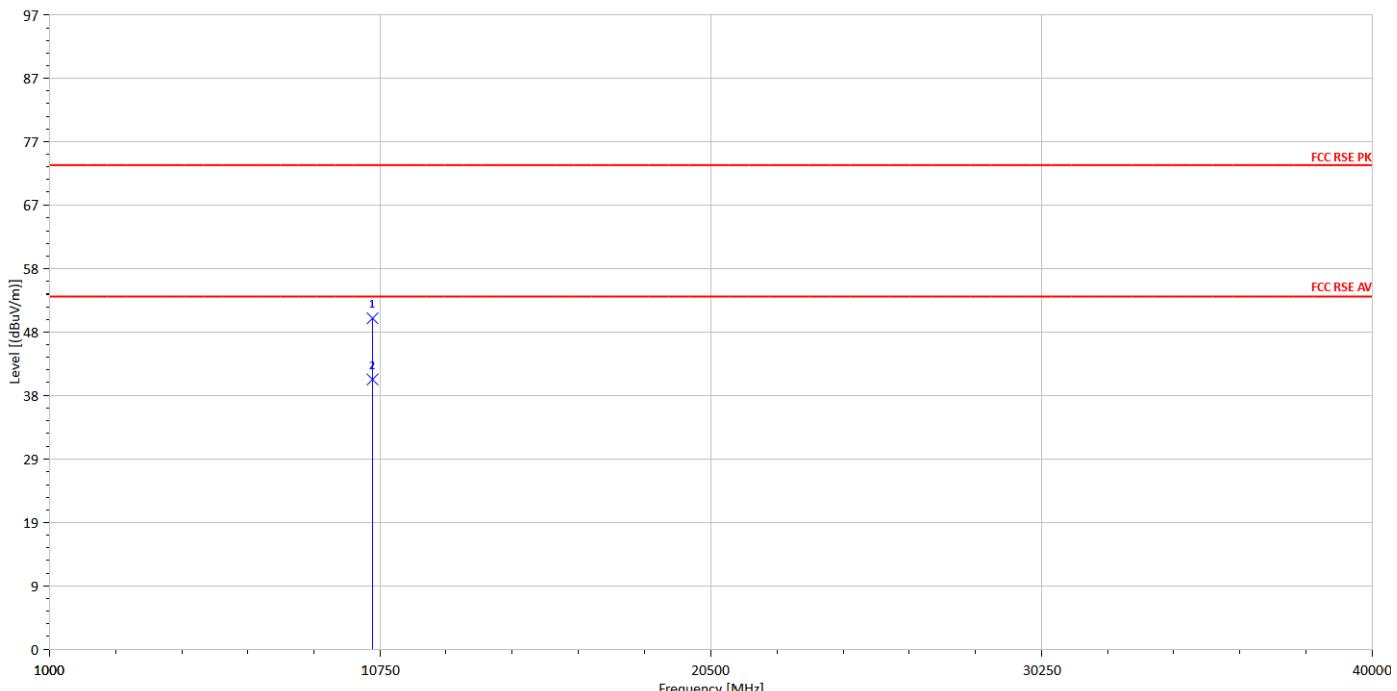
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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

Operation Mode : 802.11a Test Date : 2016/7/5  
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : H Measurement Antenna Pol. : Vertical



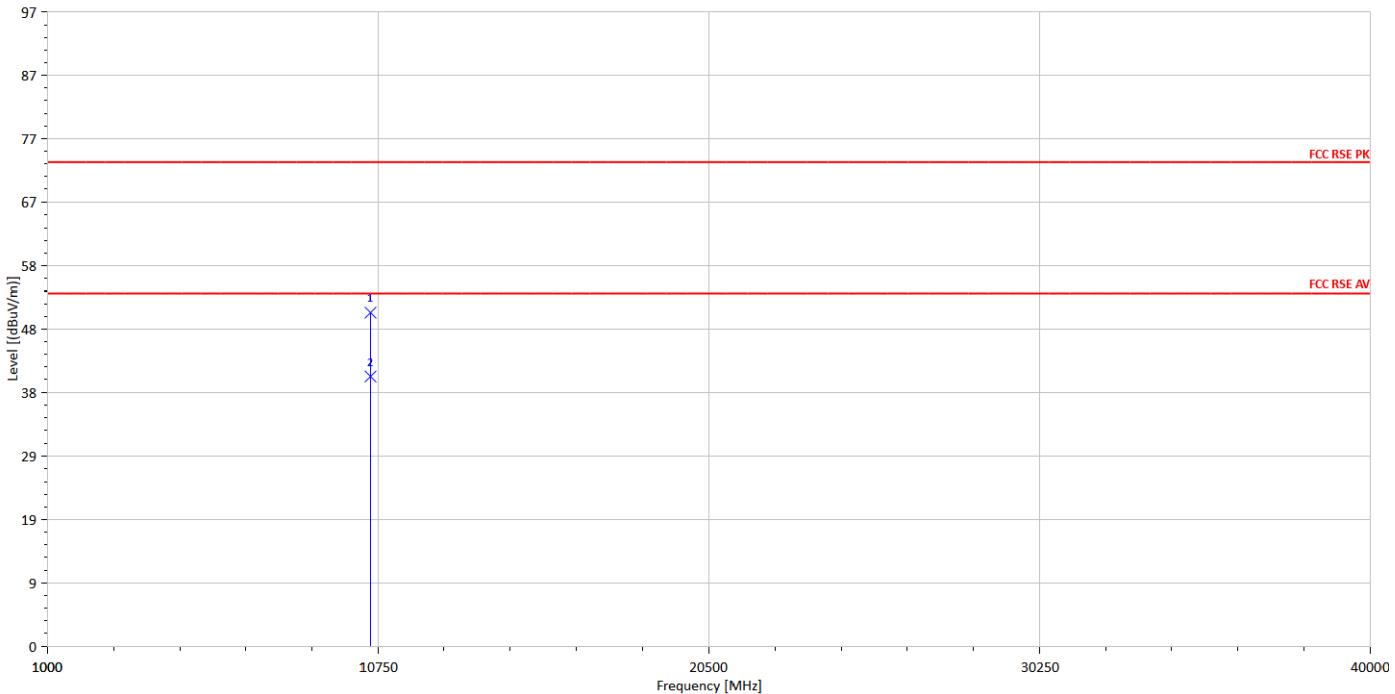
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10520.00	H	Peak	30.55	20.10	50.65	74	-23.35
10520.00	H	Average	21.10	20.10	41.20	54	-12.80

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



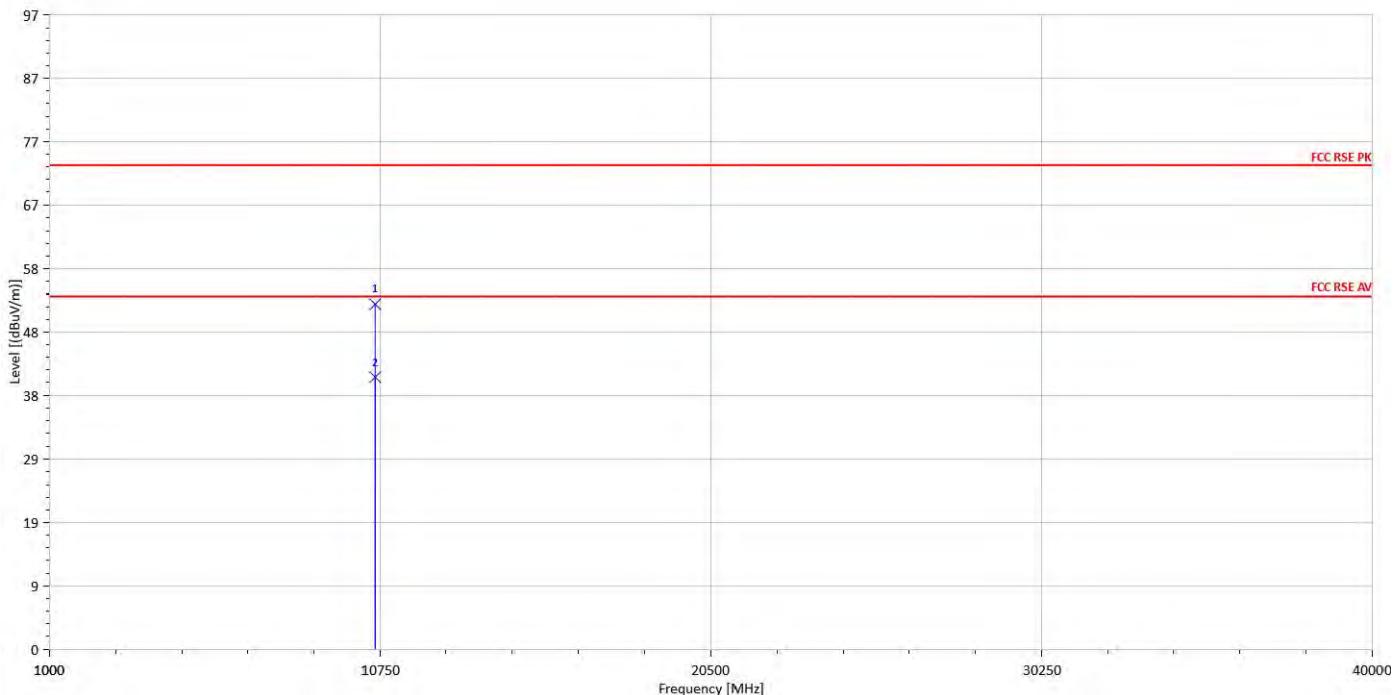
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	H	Peak	30.95	20.10	51.05	74	-22.95
10520.00	H	Average	21.09	20.10	41.19	54	-12.81

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : H Measurement Antenna Pol. : Vertical



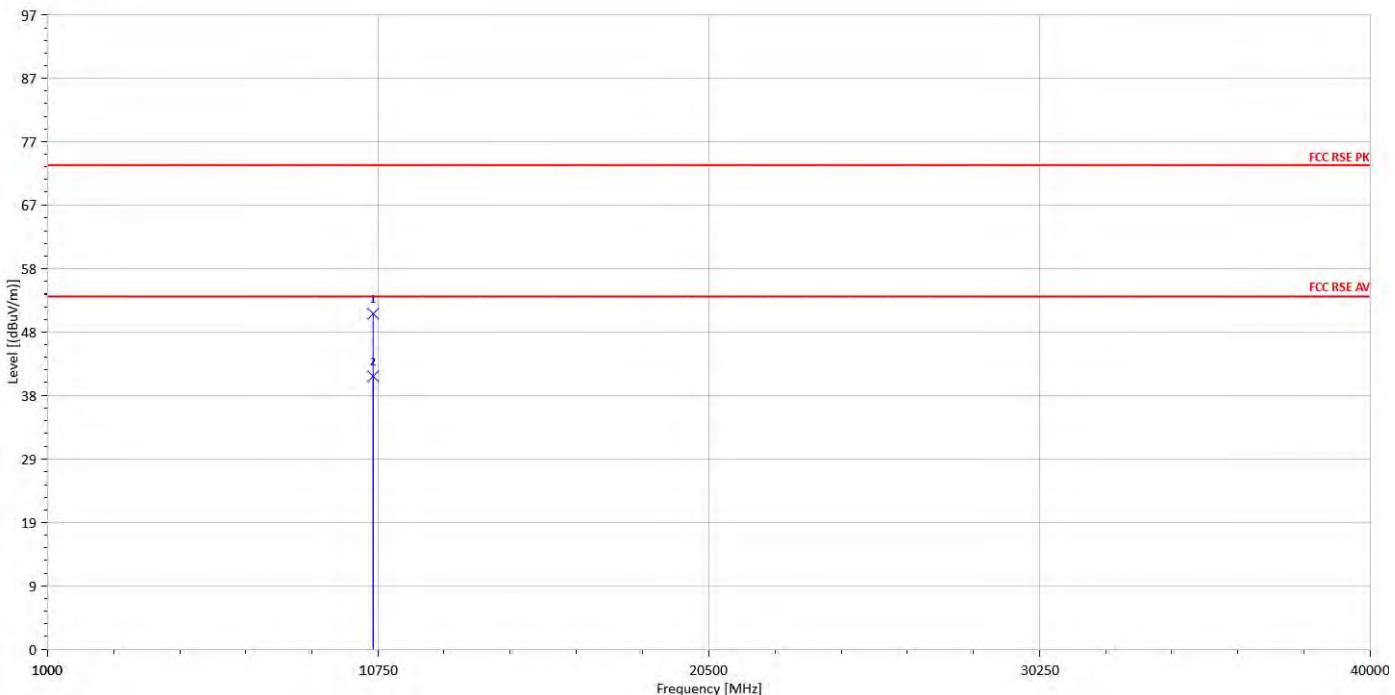
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10600.00	H	Peak	32.65	20.17	52.82	74	-21.18
10600.00	H	Average	21.39	20.17	41.56	54	-12.44

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Operation Mode : 802.11a Test Date : 2016/7/5  
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : H Measurement Antenna Pol. : Horizontal



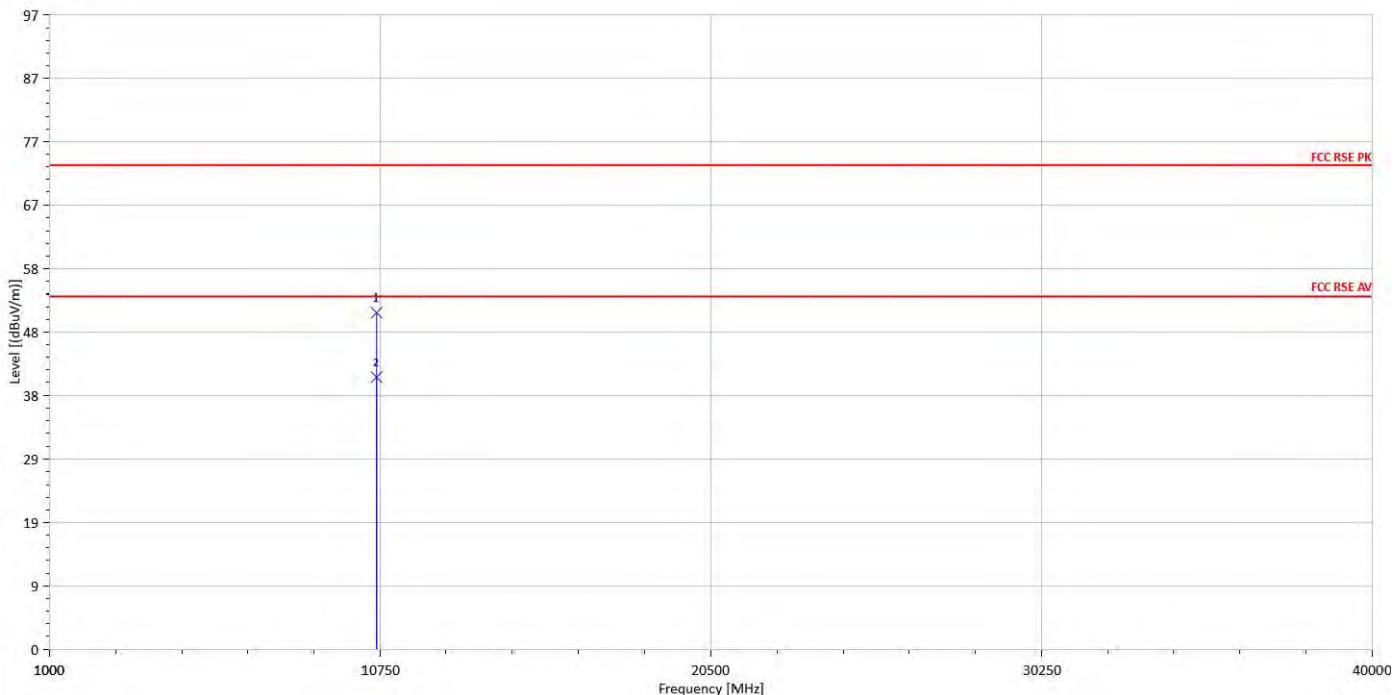
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10600.00	H	Peak	31.18	20.17	51.35	74	-22.65
10600.00	H	Average	21.52	20.17	41.69	54	-12.31

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : H Measurement Antenna Pol. : Vertical



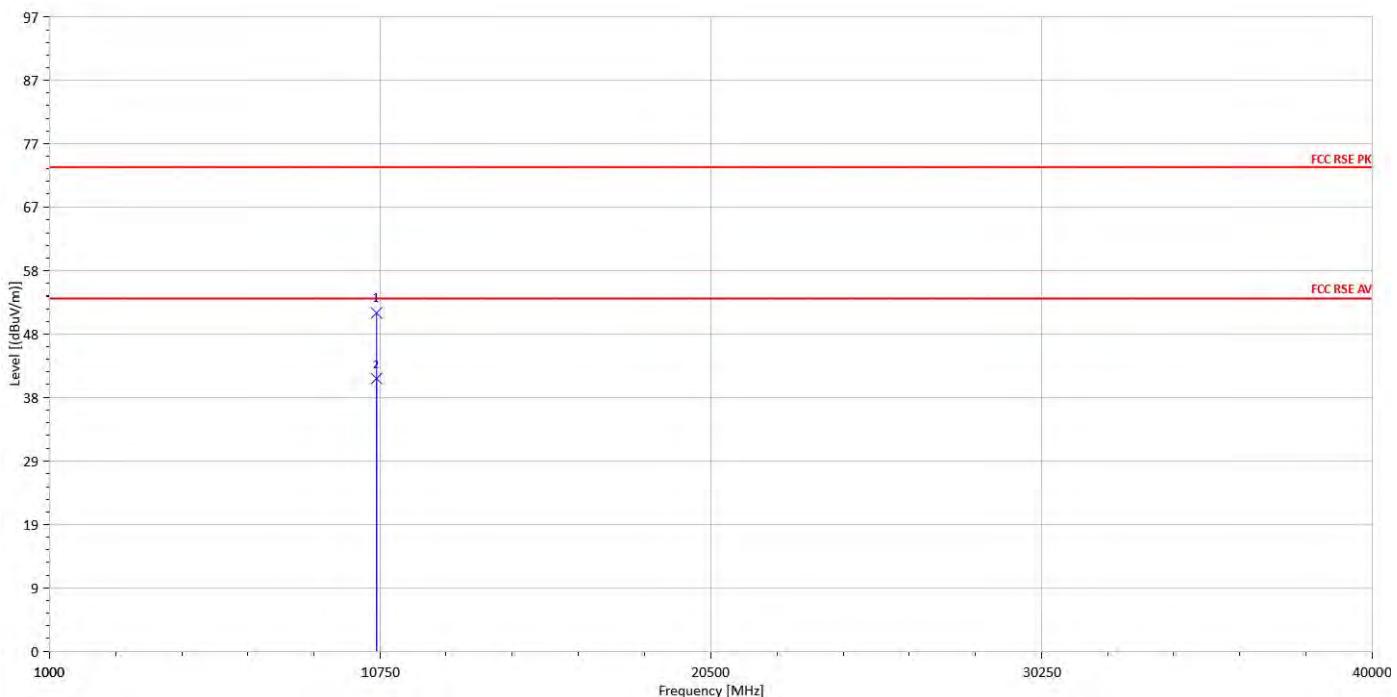
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	H	Peak	31.16	20.34	51.51	74	-22.49
10640.00	H	Average	21.21	20.34	41.55	54	-12.45

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx 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 dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	H	Peak	31.45	20.34	51.79	74	-22.21
10640.00	H	Average	21.31	20.34	41.65	54	-12.35

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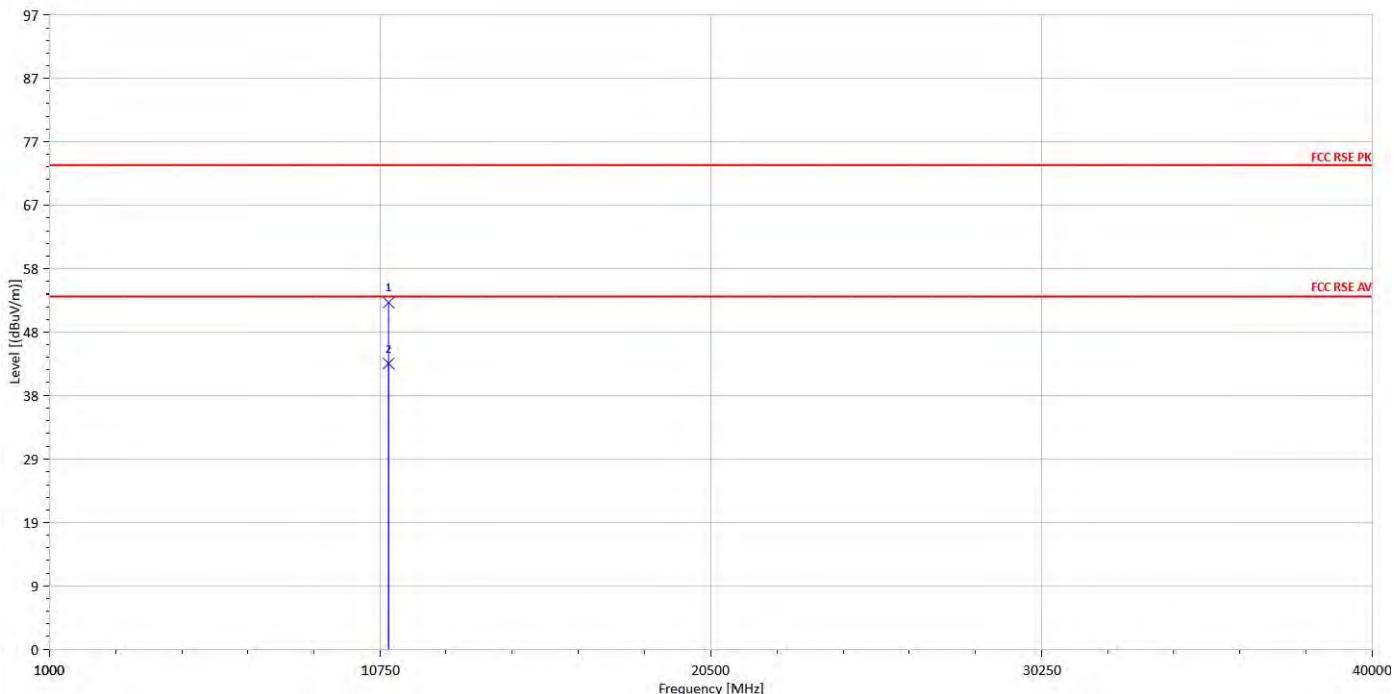
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## Radiated Spurious Emission Measurement Result

## 802.11a, 5470~5725 MHz

Operation Mode : 802.11a Test Date : 2016/7/5  
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : H Measurement Antenna Pol. : Vertical



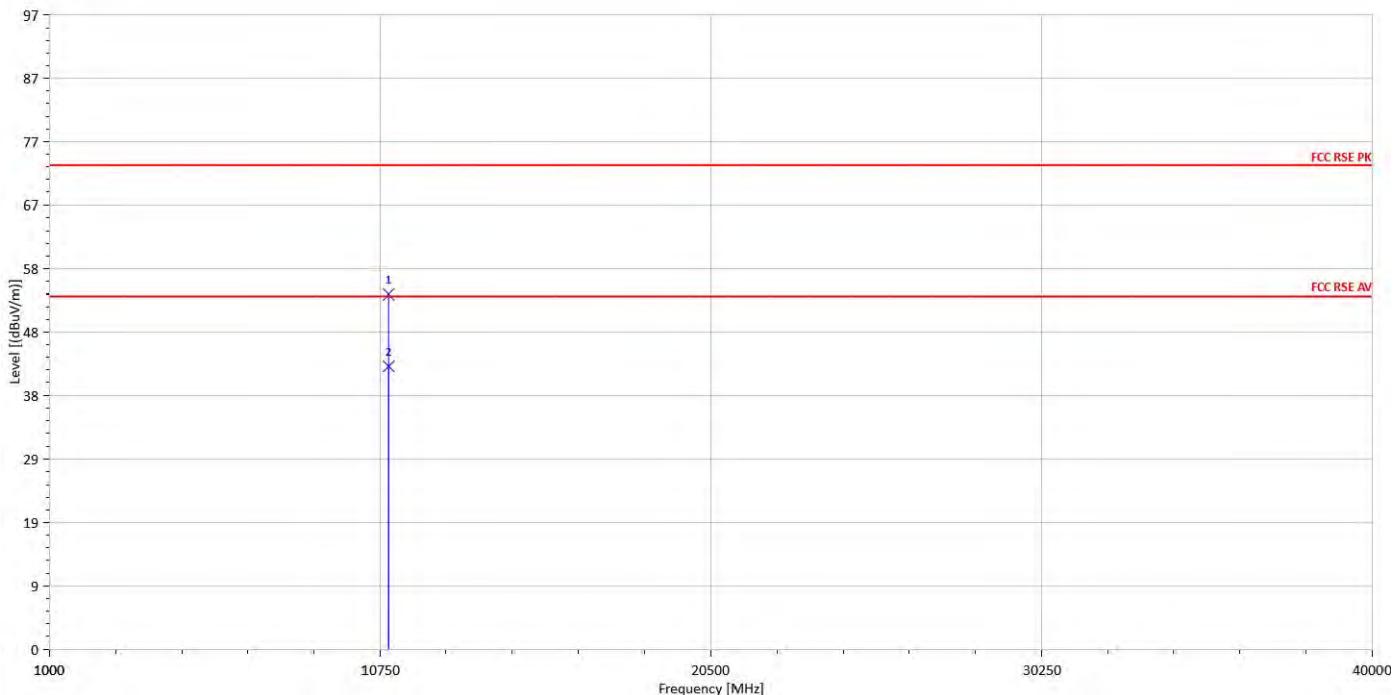
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11000.00	H	Peak	30.97	22.11	53.08	74	-20.92
11000.00	H	Average	21.55	22.11	43.66	54	-10.34

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



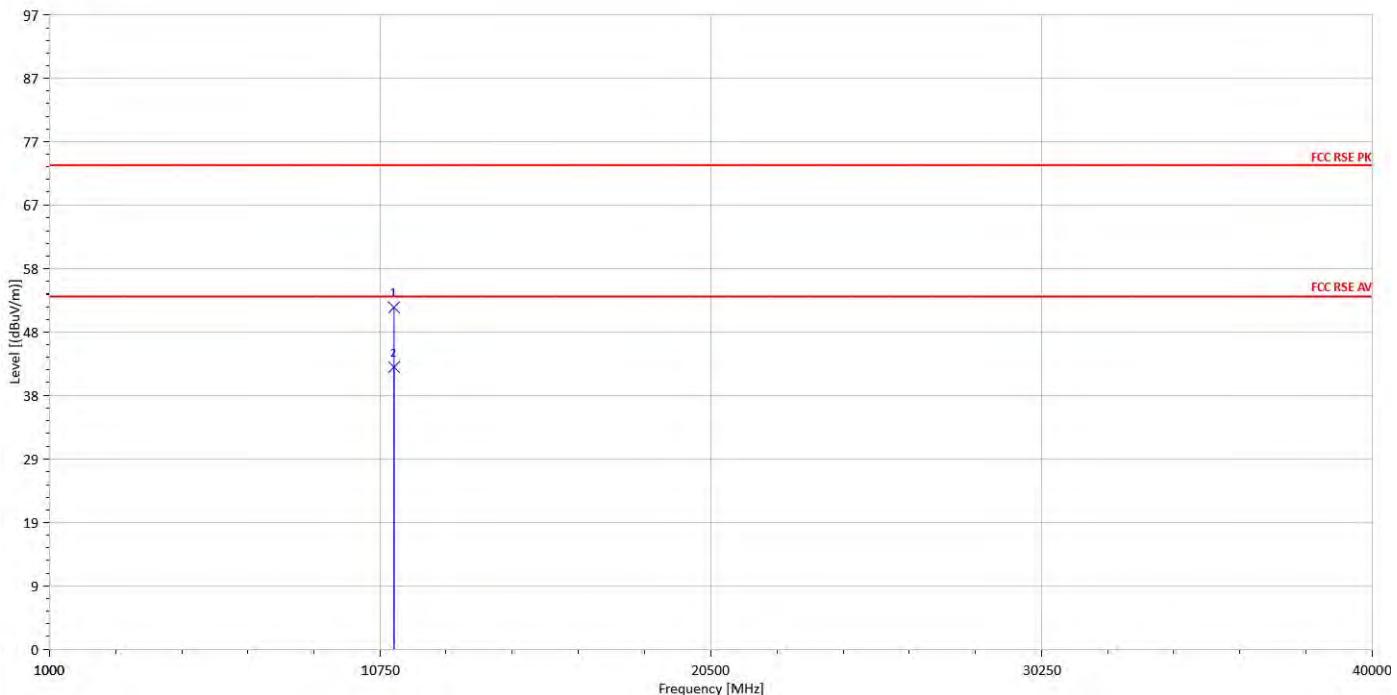
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dBµV	dB	dBµV/m	dBµV/m	dB
11000.00	H	Peak	32.15	22.11	54.25	74	-19.75
11000.00	H	Average	21.12	22.11	43.23	54	-10.77

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : H Measurement Antenna Pol. : Vertical



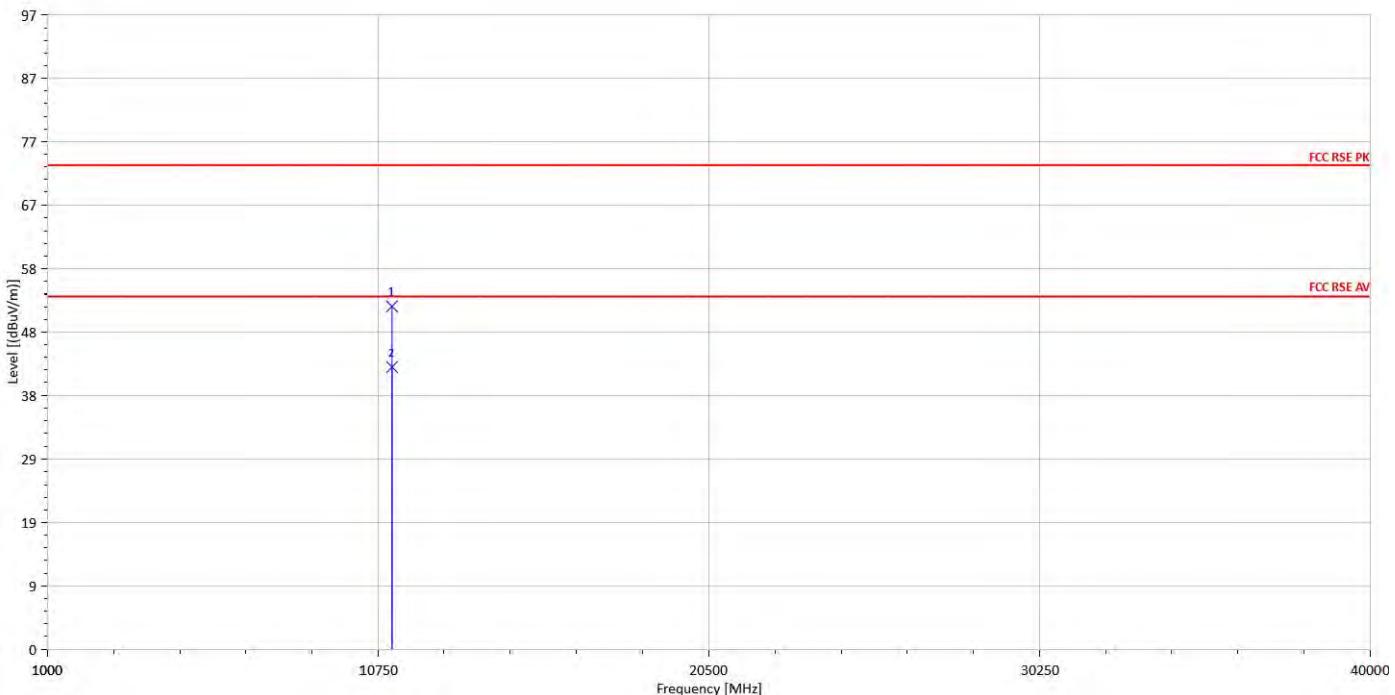
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11160.00	H	Peak	30.29	22.04	52.32	74	-21.68
11160.00	H	Average	21.07	22.04	43.11	54	-10.89

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



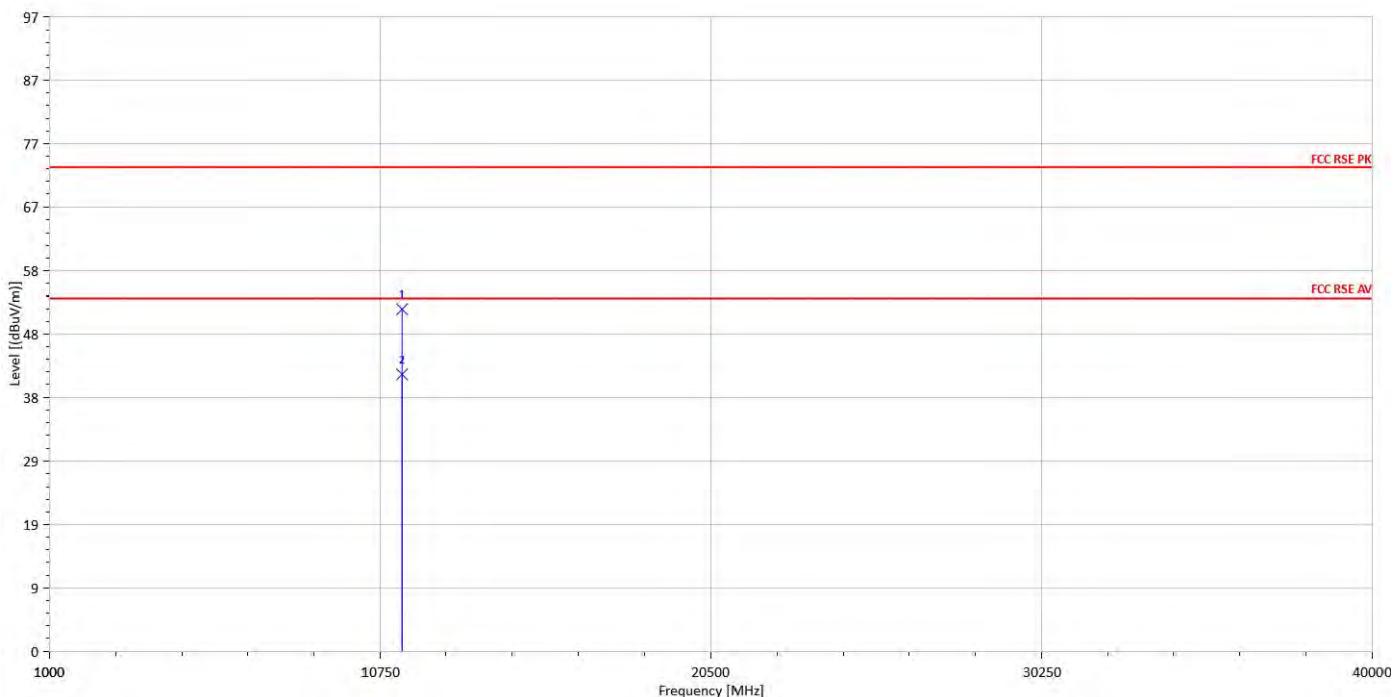
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11160.00	H	Peak	30.45	22.04	52.48	74	-21.52
11160.00	H	Average	21.08	22.04	43.12	54	-10.88

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : H Measurement Antenna Pol. : Vertical



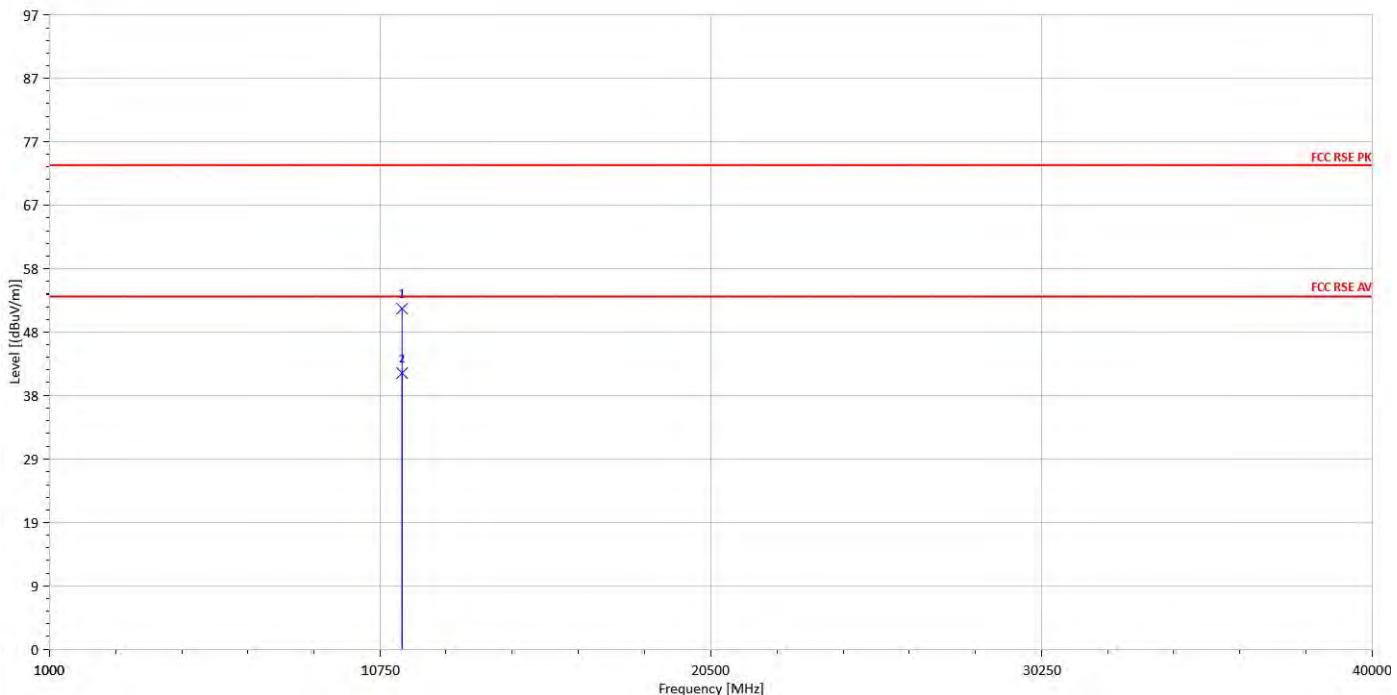
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	H	Peak	31.14	21.22	52.36	74	-21.64
11400.00	H	Average	21.08	21.22	42.30	54	-11.70

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11400.00	H	Peak	30.91	21.22	52.13	74	-21.87
11400.00	H	Average	20.97	21.22	42.19	54	-11.81

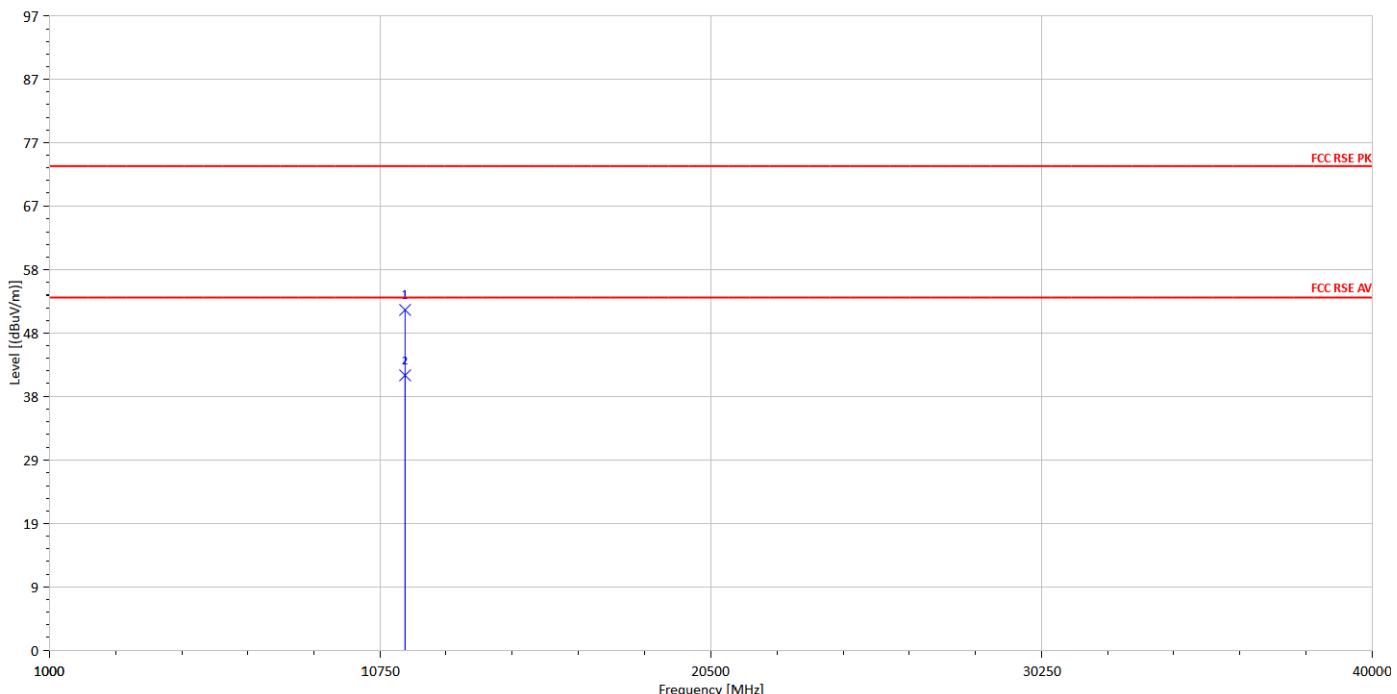
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**Radiated Spurious Emission Measurement Result****802.11a, 5725~5850 MHz**

Operation Mode : 802.11a Test Date : 2016/7/5  
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : H Measurement Antenna Pol. : Vertical



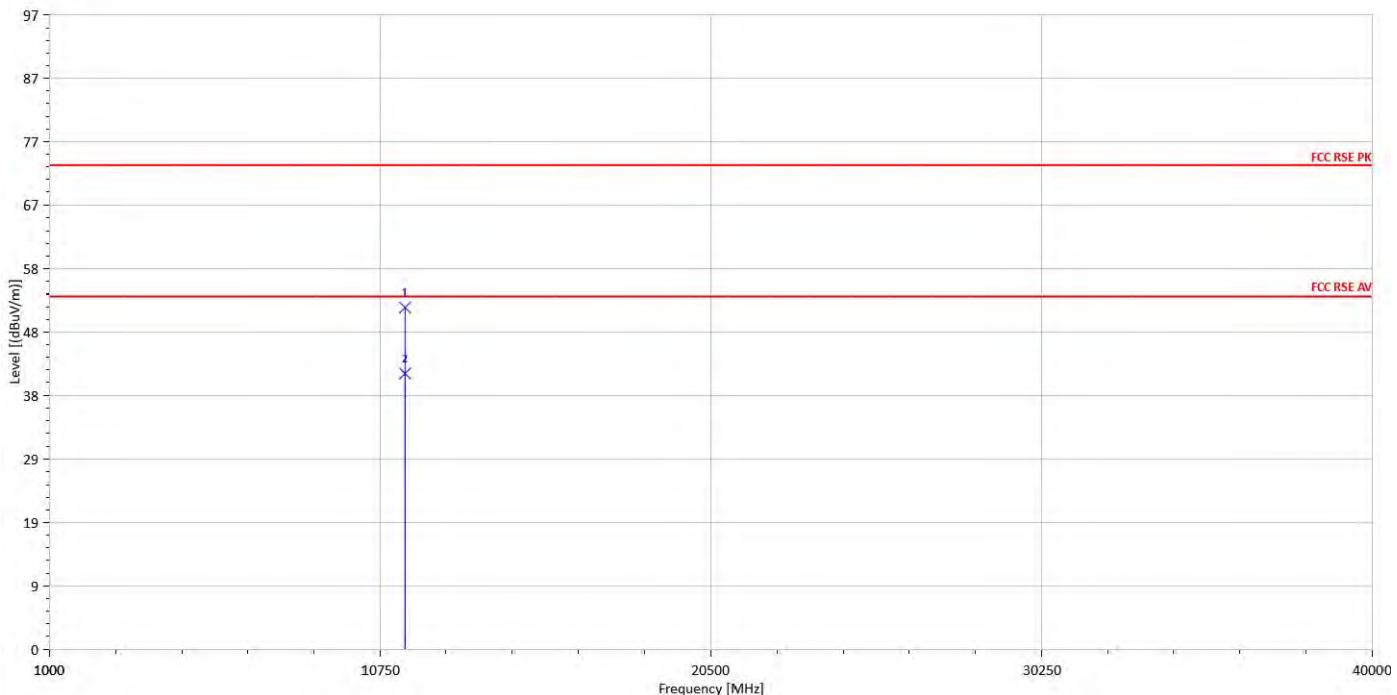
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11490.00	H	Peak	31.39	20.70	52.09	74	-21.91
11490.00	H	Average	21.29	20.70	41.99	54	-12.01

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Operation Mode : 802.11a Test Date : 2016/7/5  
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : H Measurement Antenna Pol. : Horizontal



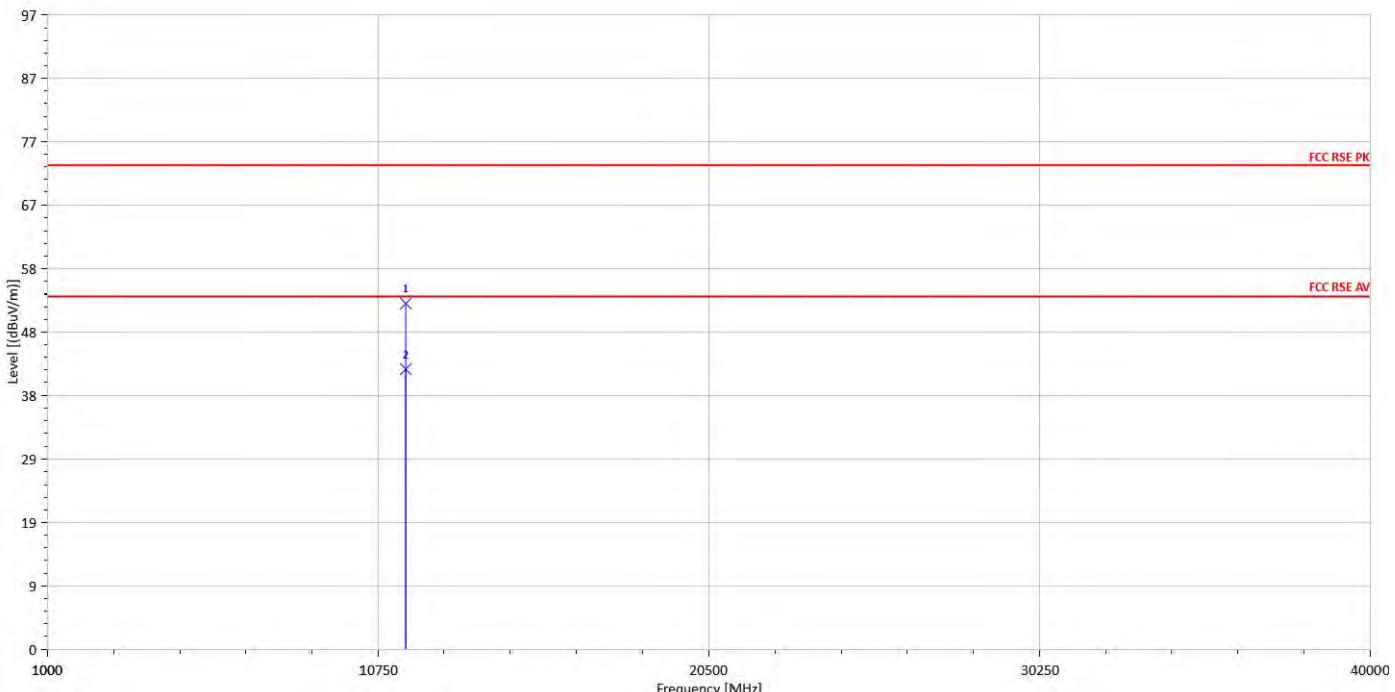
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	H	Peak	31.59	20.70	52.29	74	-21.71
11490.00	H	Average	21.41	20.70	42.11	54	-11.89

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Operation Mode : 802.11a Test Date : 2016/7/5  
 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



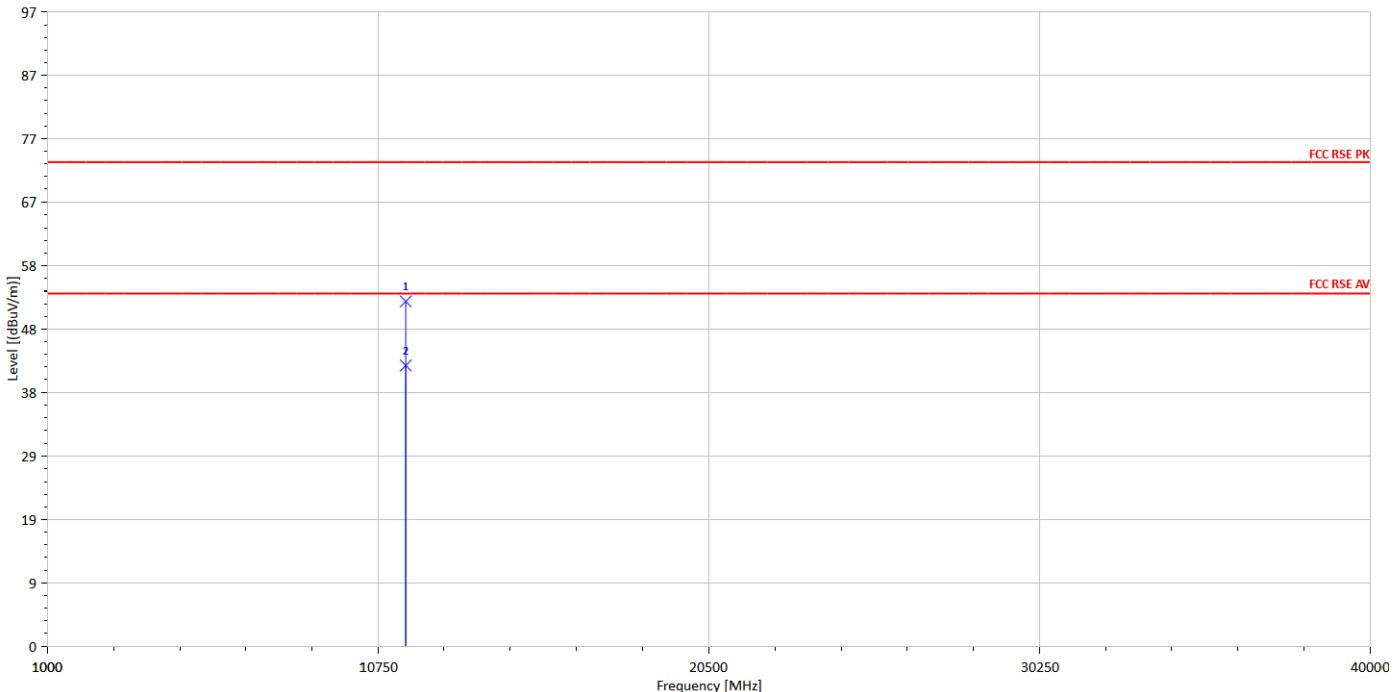
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11570.00	H	Peak	31.50	21.44	52.94	74	-21.06
11570.00	H	Average	21.35	21.44	42.79	54	-11.21

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Operation Mode : 802.11a Test Date : 2016/7/5  
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



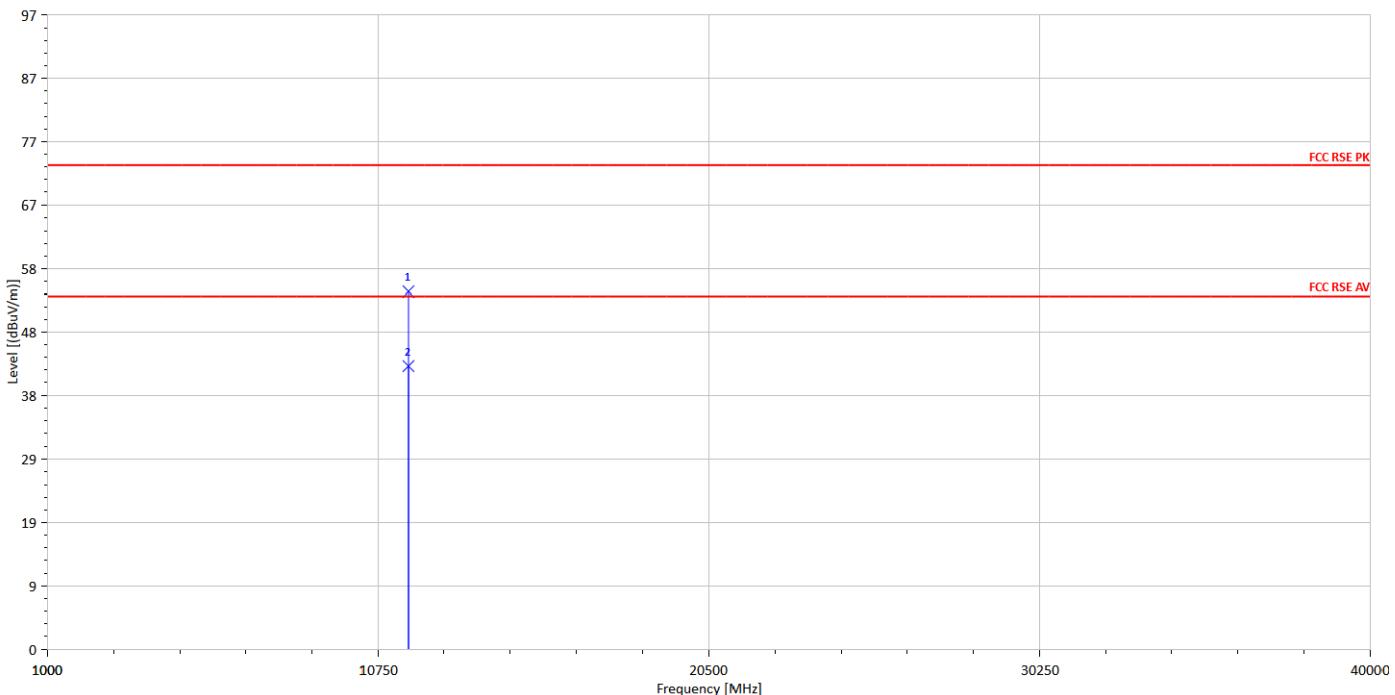
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11570.00	H	Peak	31.35	21.44	52.79	74	-21.21
11570.00	H	Average	21.45	21.44	42.89	54	-11.11

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Ashton  
 EUT Pol. : H Measurement Antenna Pol. : Vertical



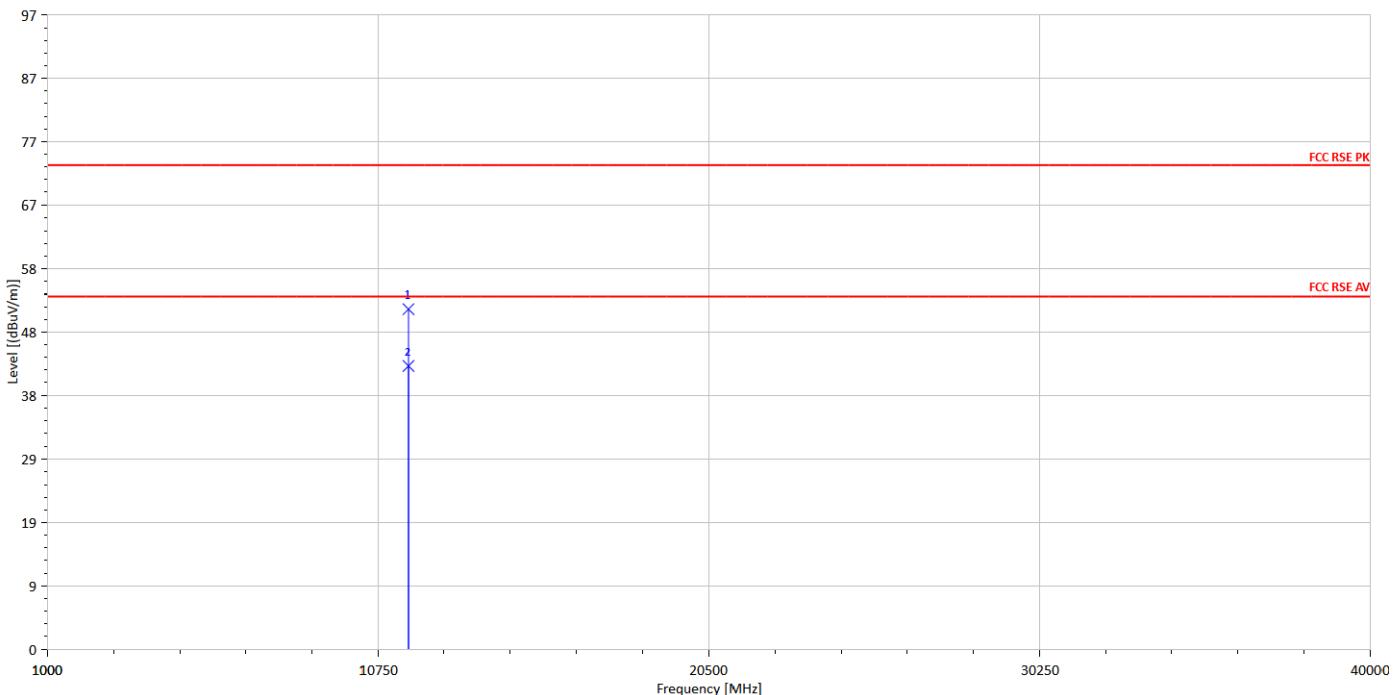
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	H	Peak	32.65	22.02	54.67	74	-19.33
11650.00	H	Average	21.24	22.02	43.26	54	-10.74

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Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Ashton  
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
11650.00	H	Peak	30.03	22.02	52.05	74	-21.95
11650.00	H	Average	21.26	22.02	43.28	54	-10.72

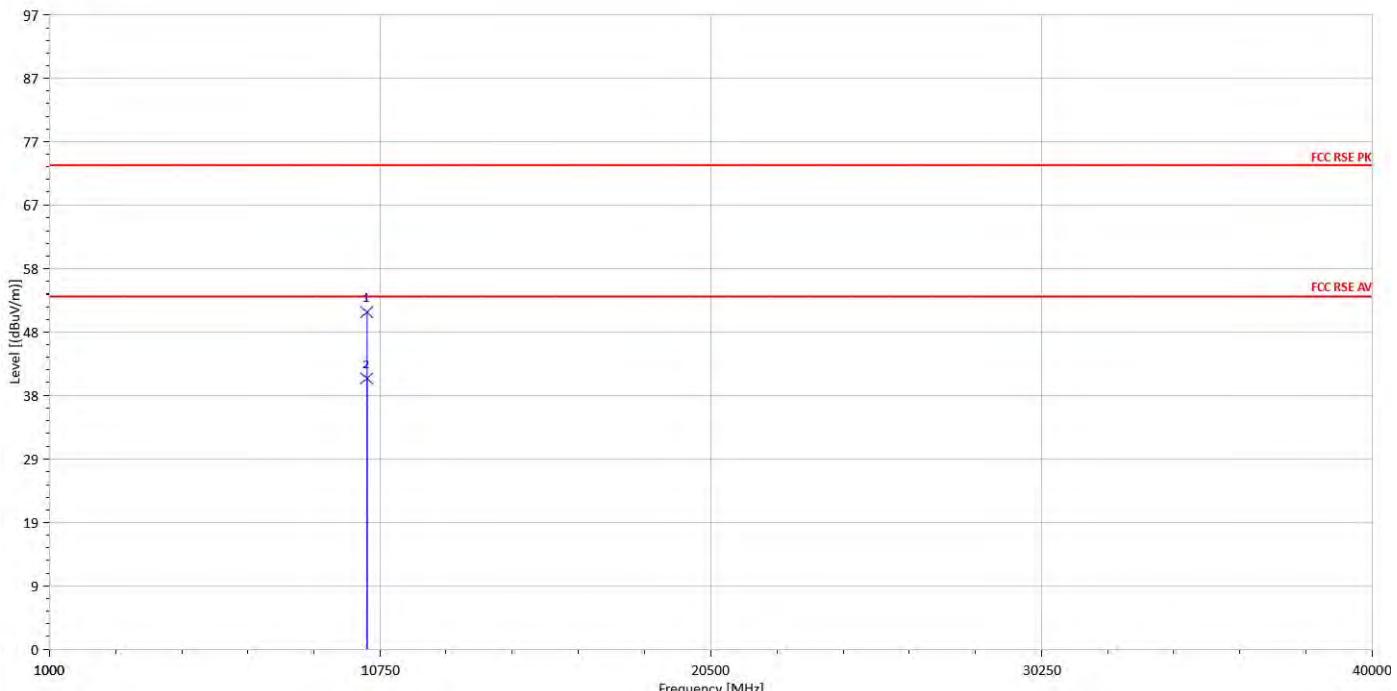
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**Radiated Spurious Emission Measurement Result****802.11ac\_VHT20, 5150~5250 MHz**

Operation Mode : 802.11ac20 Test Date : 2016/7/5  
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



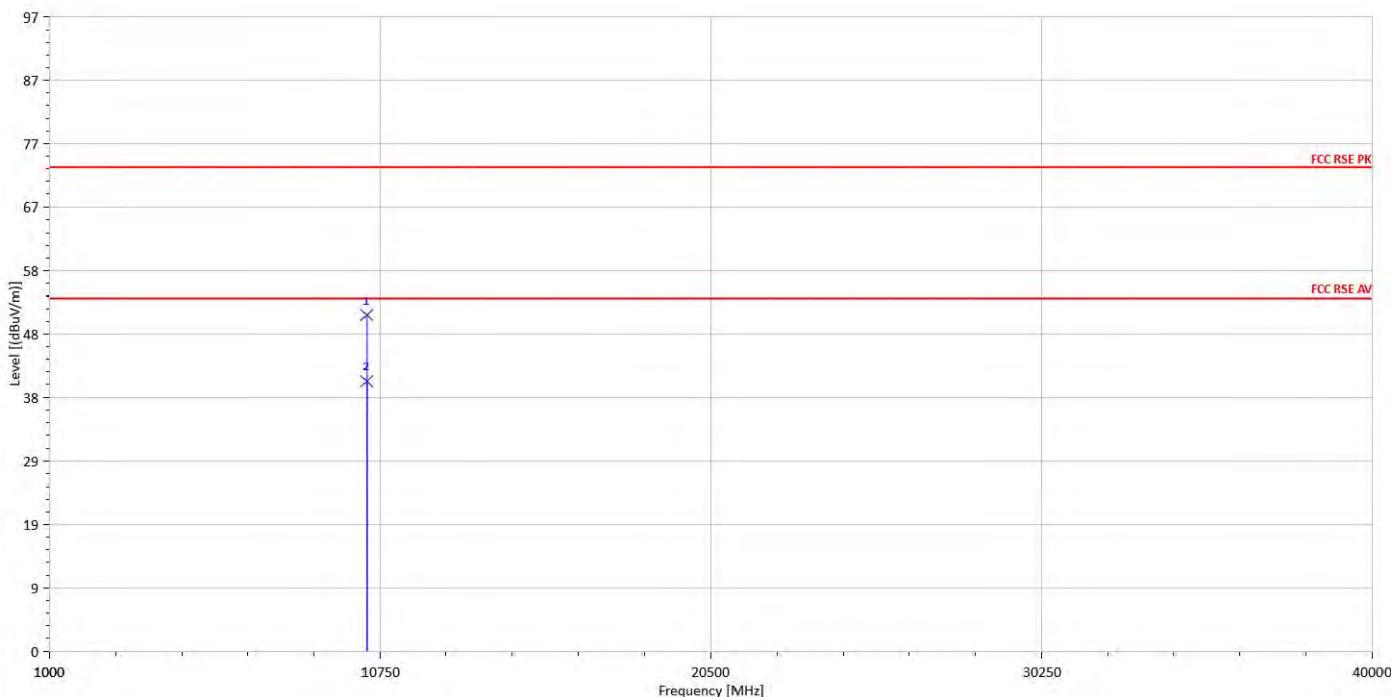
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	H	Peak	31.41	20.18	51.59	74	-22.41
10360.00	H	Average	21.19	20.18	41.37	54	-12.63

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
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



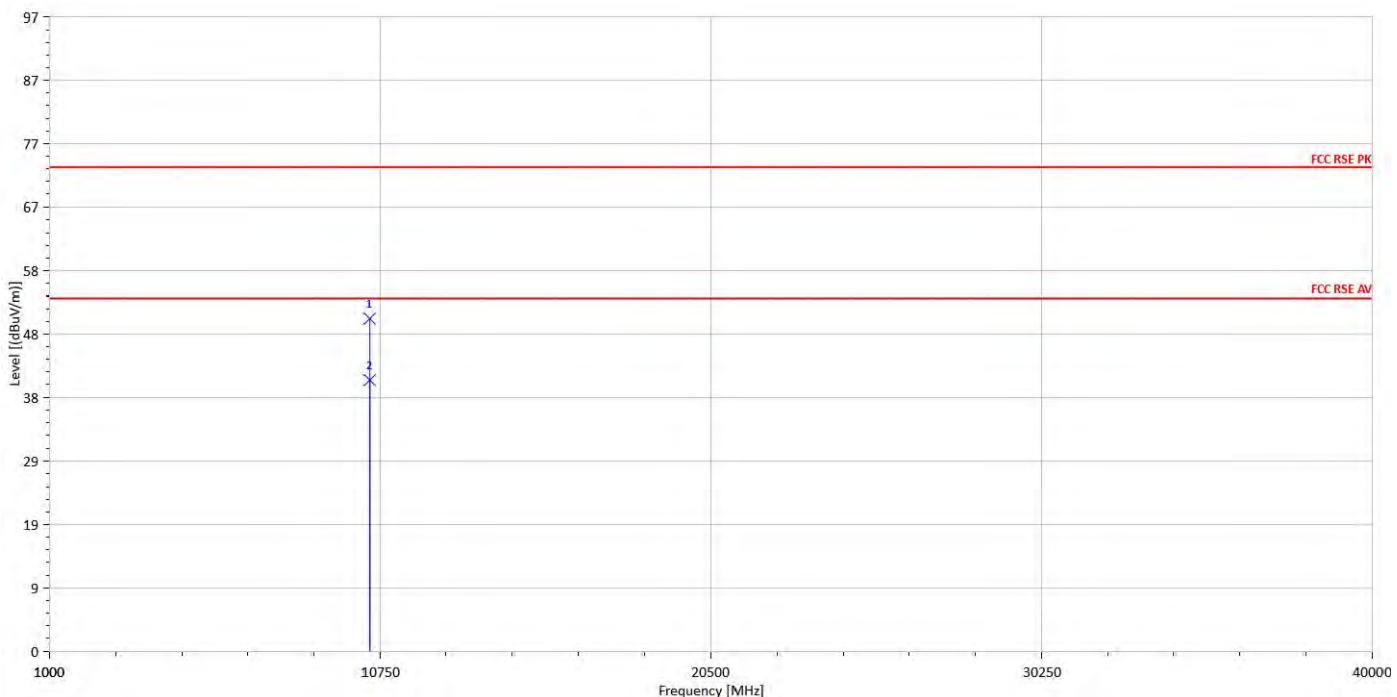
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	H	Peak	31.28	20.18	51.45	74	-22.55
10360.00	H	Average	21.06	20.18	41.24	54	-12.76

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
 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



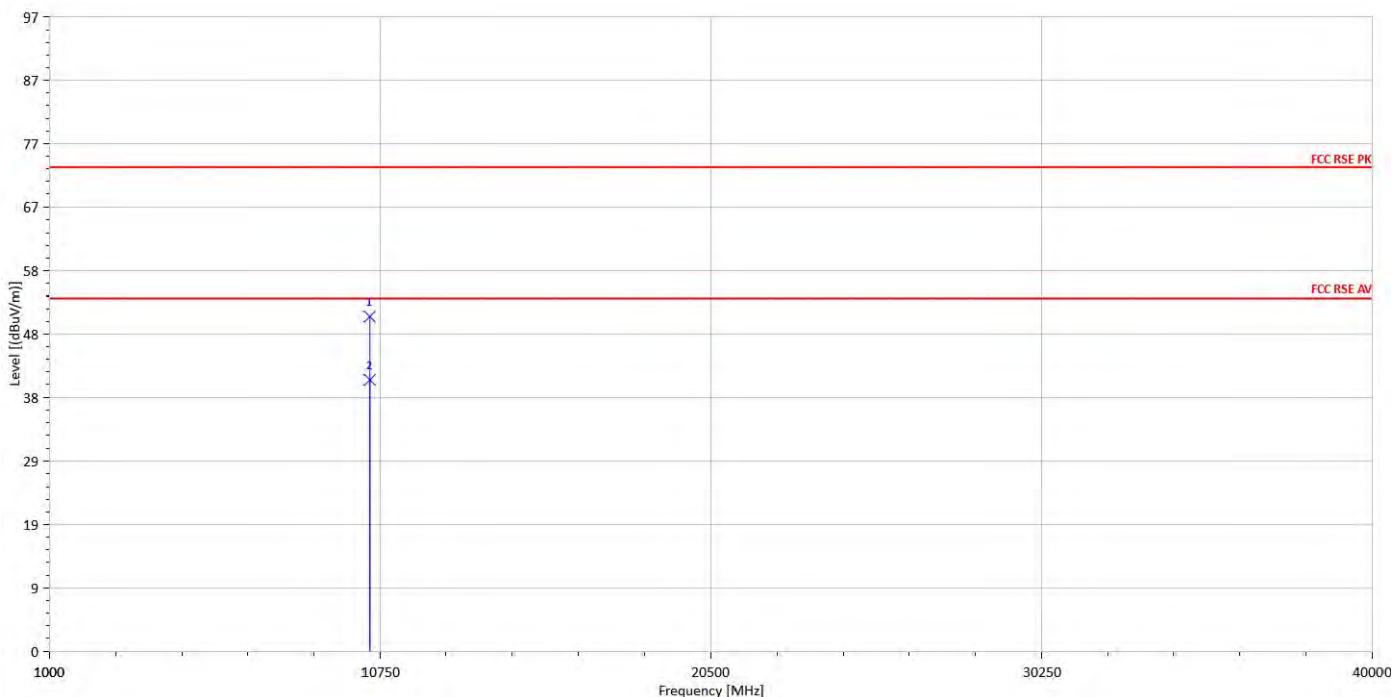
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10440.00	H	Peak	30.60	20.29	50.90	74	-23.10
10440.00	H	Average	21.12	20.29	41.41	54	-12.59

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
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



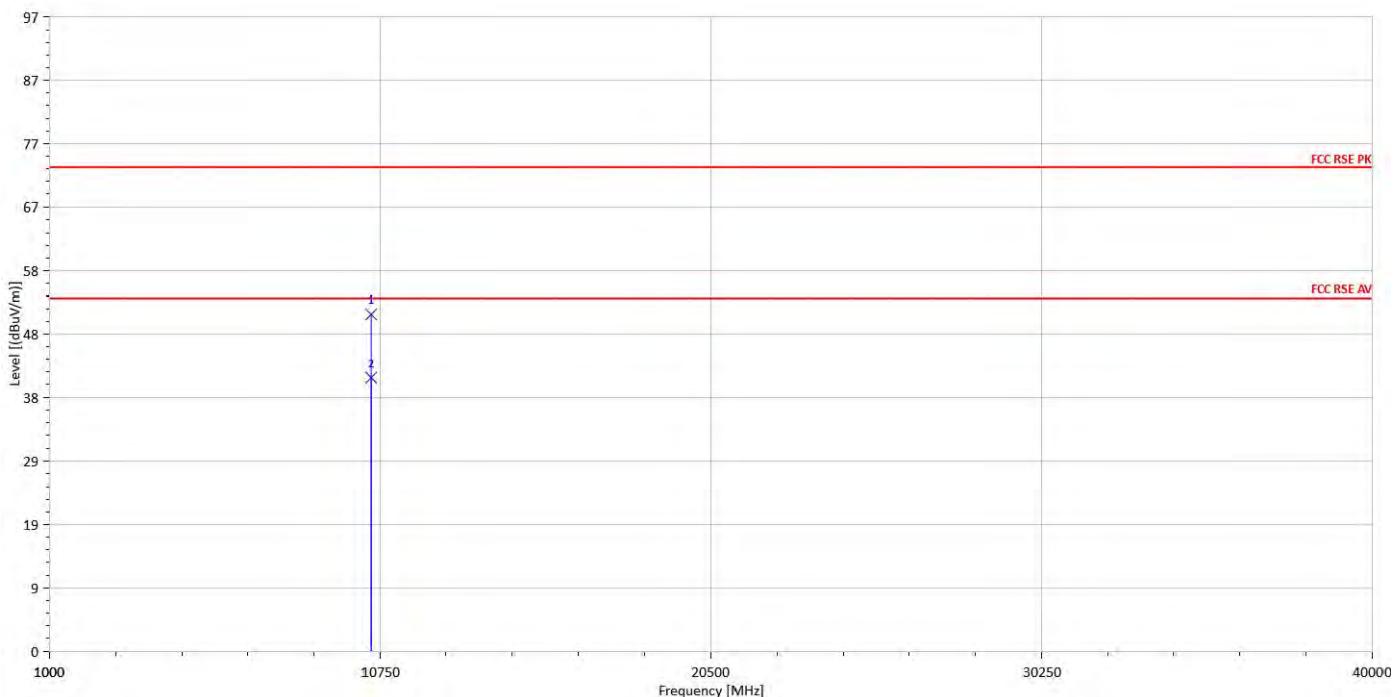
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	H	Peak	30.92	20.29	51.21	74	-22.79
10440.00	H	Average	21.15	20.29	41.44	54	-12.56

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
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



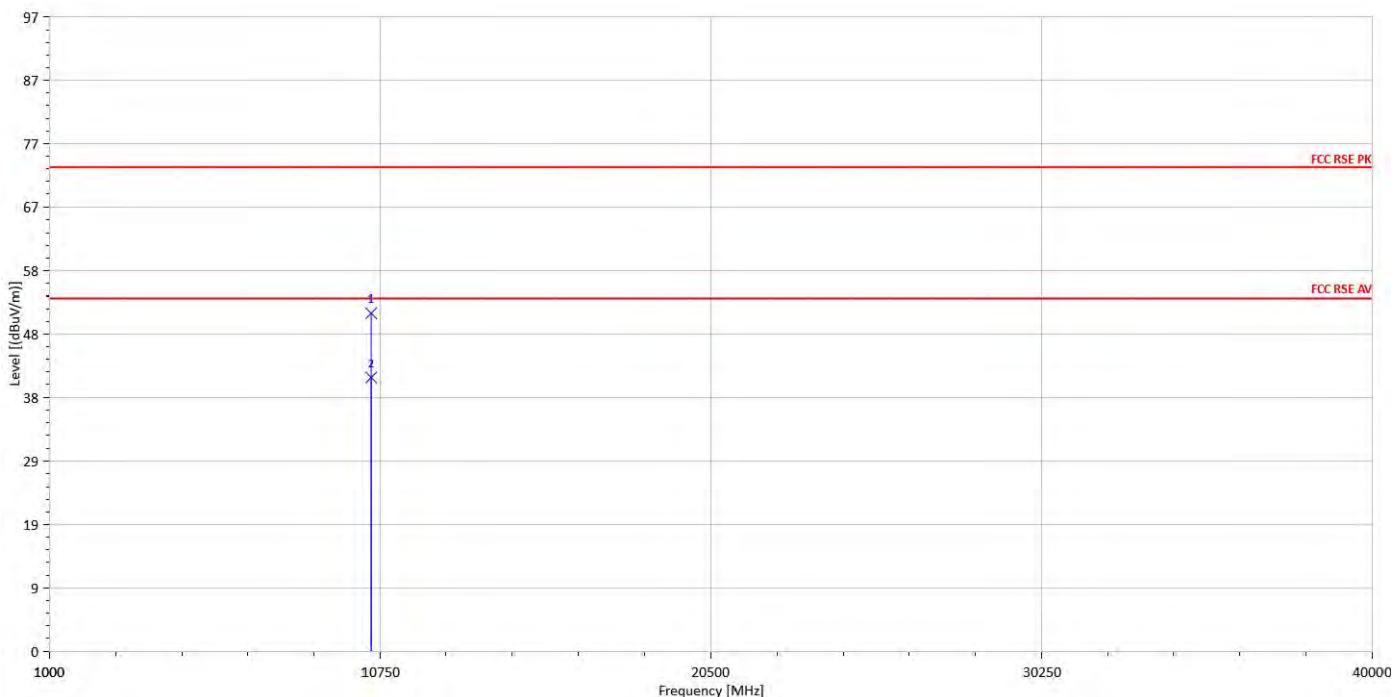
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	H	Peak	30.86	20.68	51.54	74	-22.46
10480.00	H	Average	21.12	20.68	41.80	54	-12.20

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10480.00	H	Peak	31.06	20.68	51.74	74	-22.26
10480.00	H	Average	21.13	20.68	41.81	54	-12.19

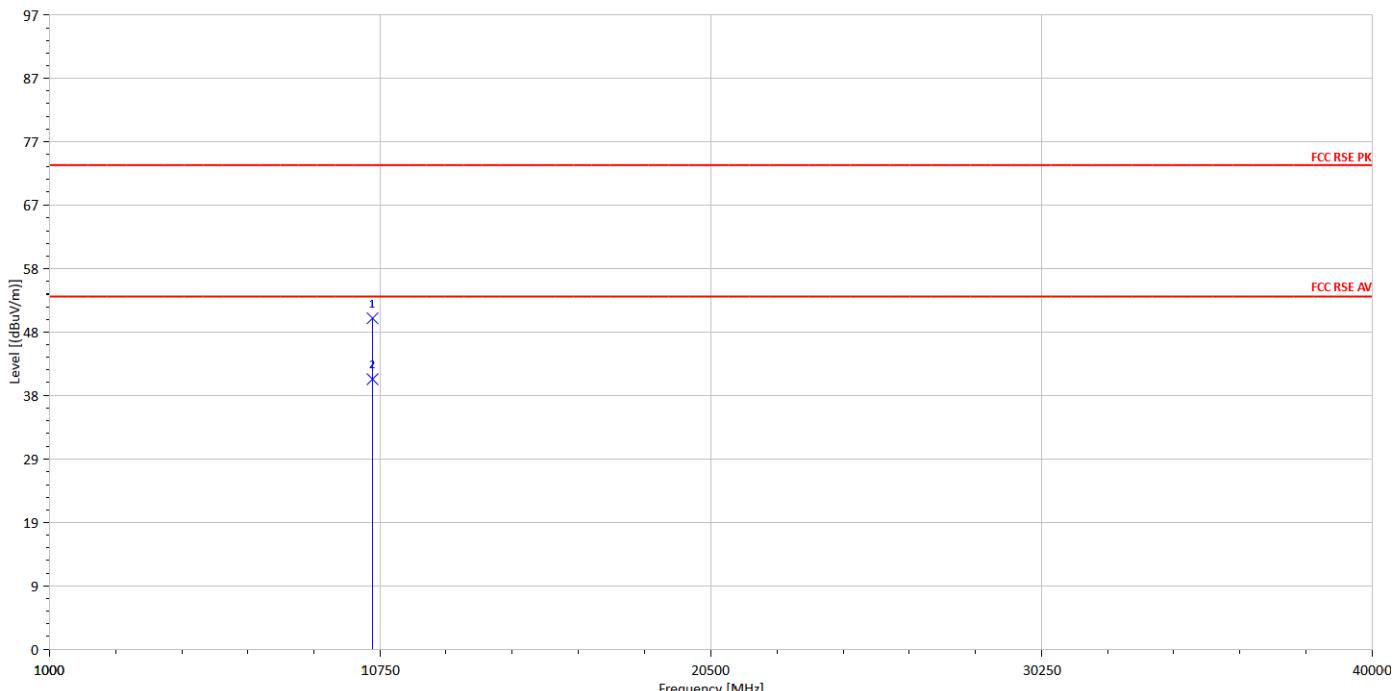
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**Radiated Spurious Emission Measurement Result****802.11ac\_VHT20, 5250~5350 MHz**

Operation Mode : 802.11ac20 Test Date : 2016/7/5  
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



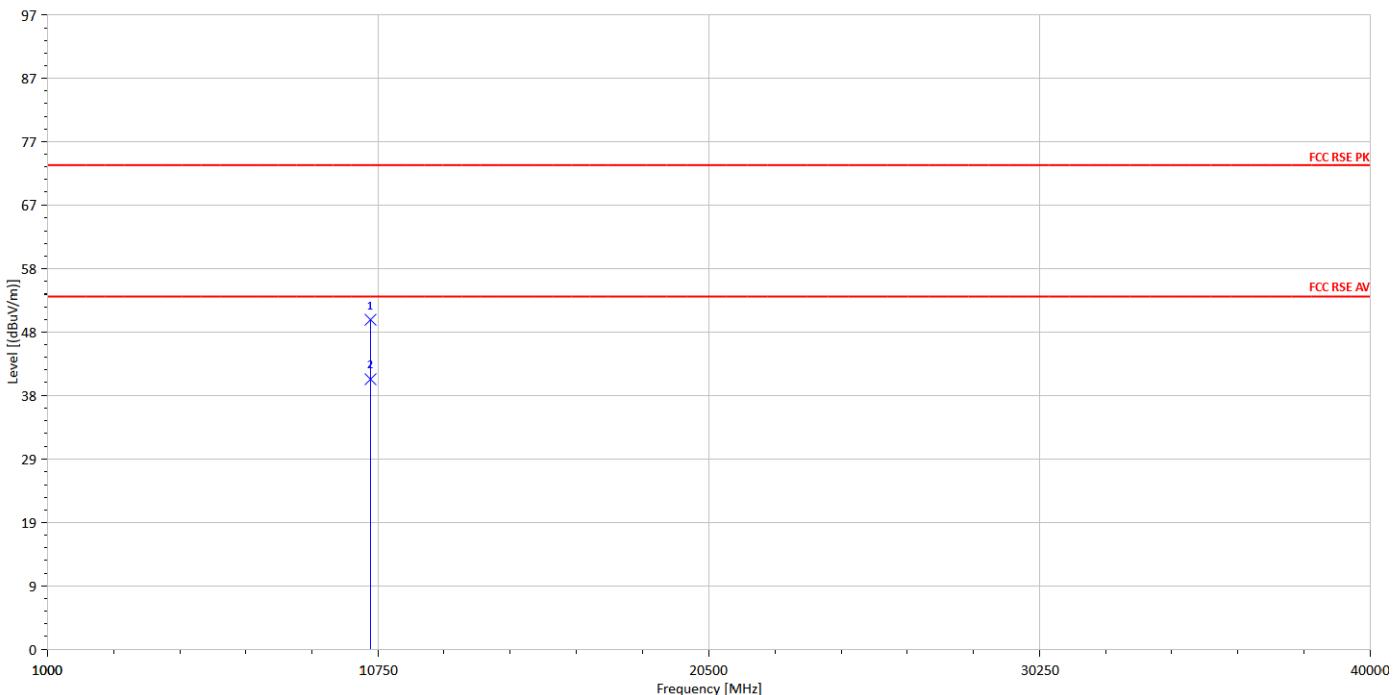
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	H	Peak	30.54	20.10	50.64	74	-23.36
10520.00	H	Average	21.14	20.10	41.24	54	-12.76

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Operation Mode : 802.11ac20      Test Date : 2016/7/5  
 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



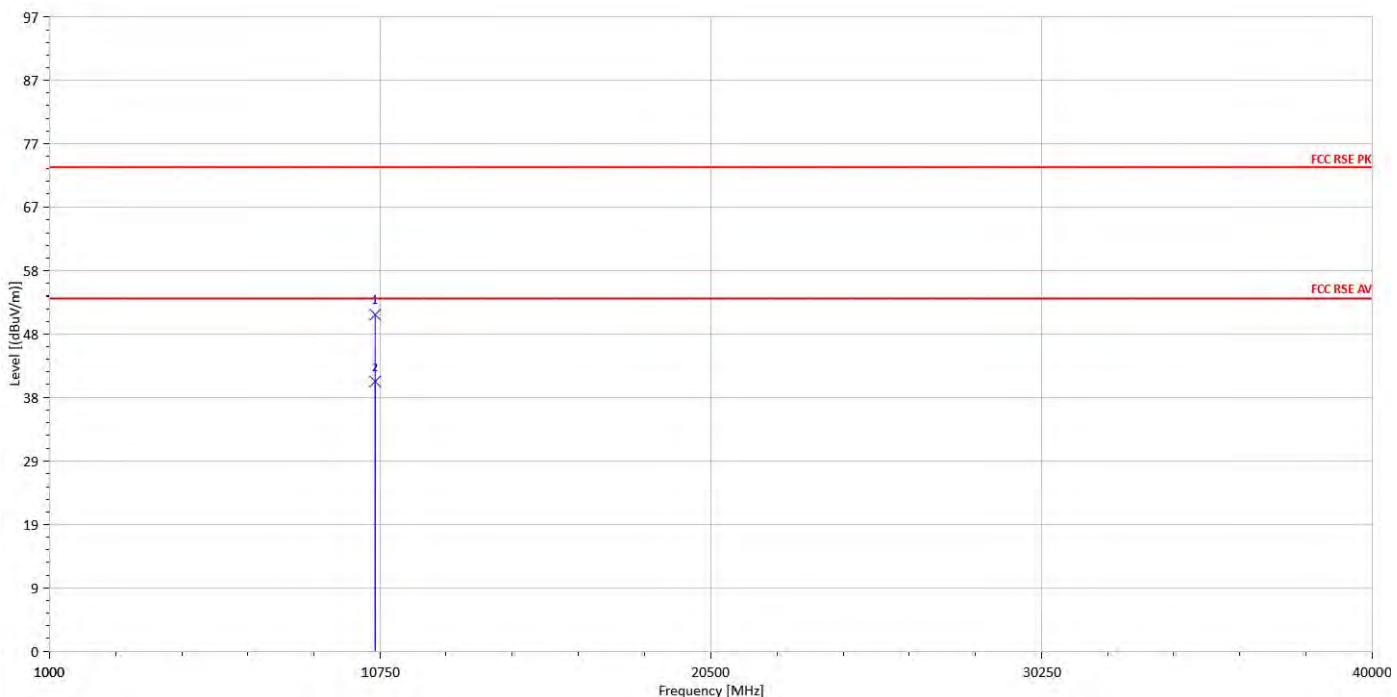
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10520.00	H	Peak	30.31	20.10	50.41	74	-23.59
10520.00	H	Average	21.13	20.10	41.23	54	-12.77

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
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



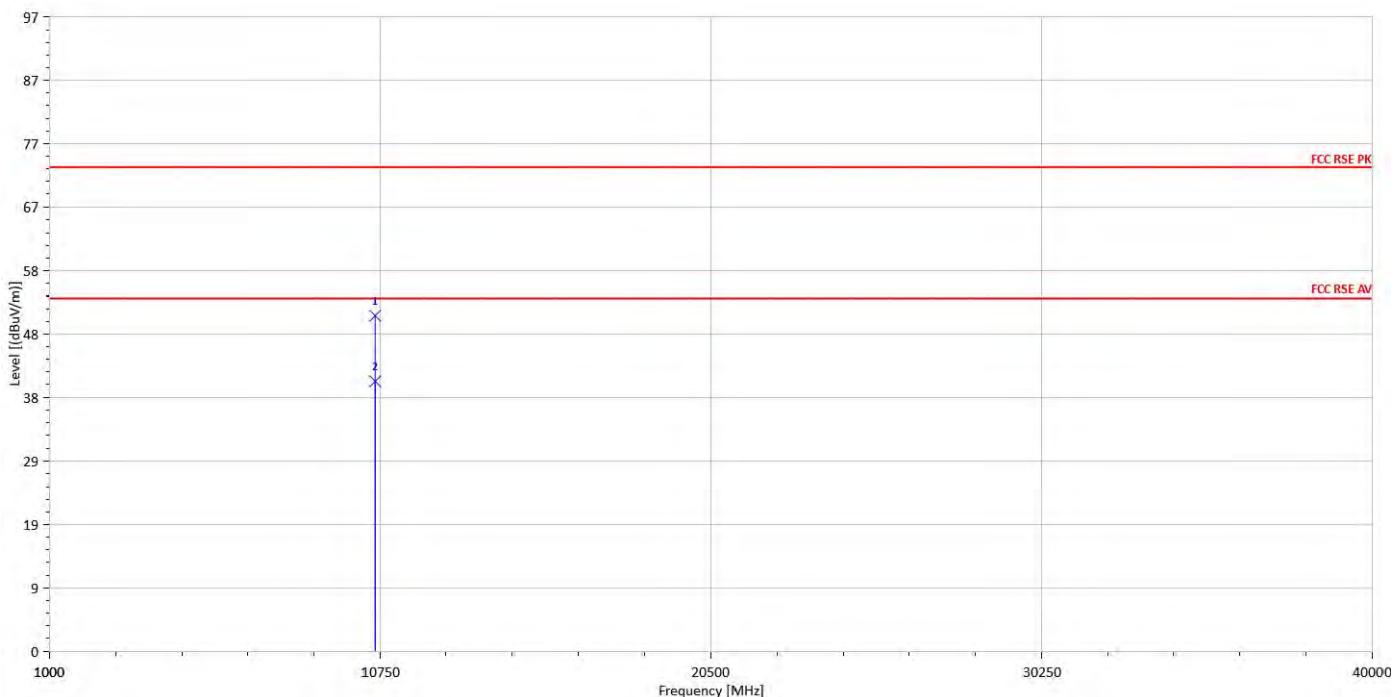
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10600.00	H	Peak	31.34	20.17	51.50	74	-22.50
10600.00	H	Average	21.03	20.17	41.20	54	-12.80

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
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



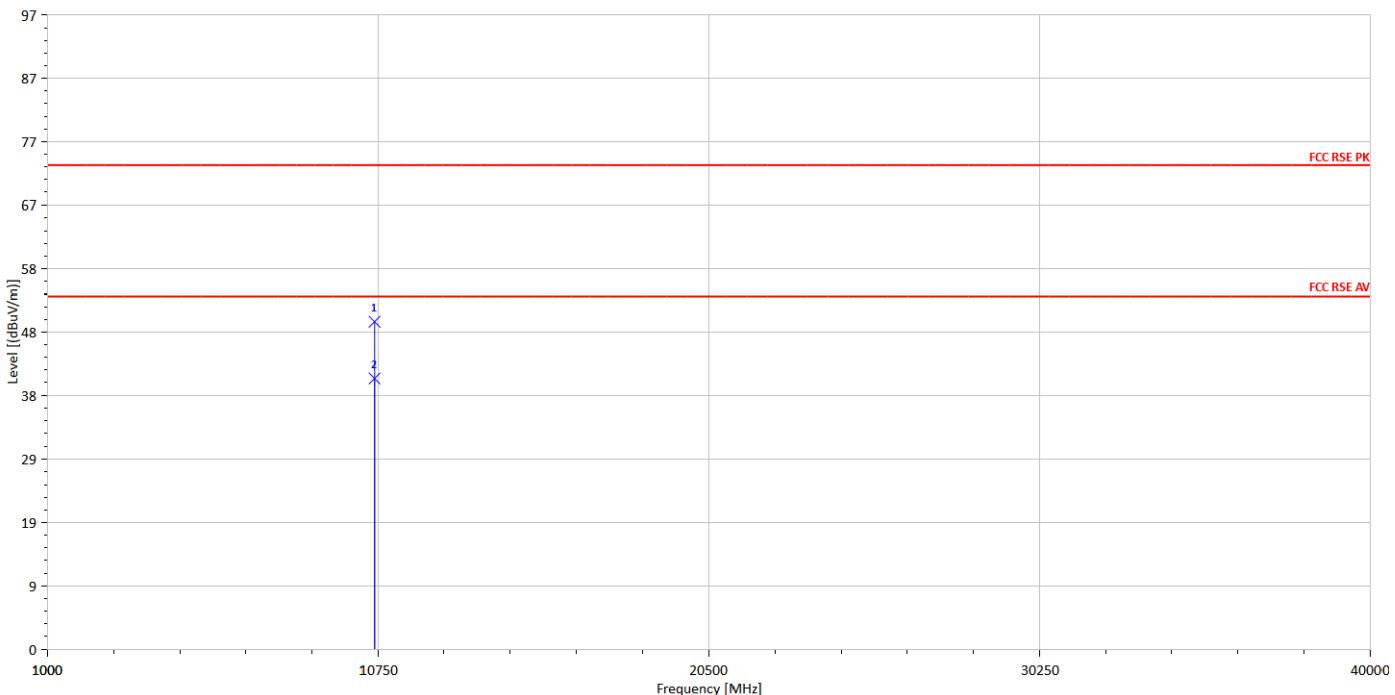
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10600.00	H	Peak	31.19	20.17	51.35	74	-22.65
10600.00	H	Average	21.06	20.17	41.23	54	-12.77

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
 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



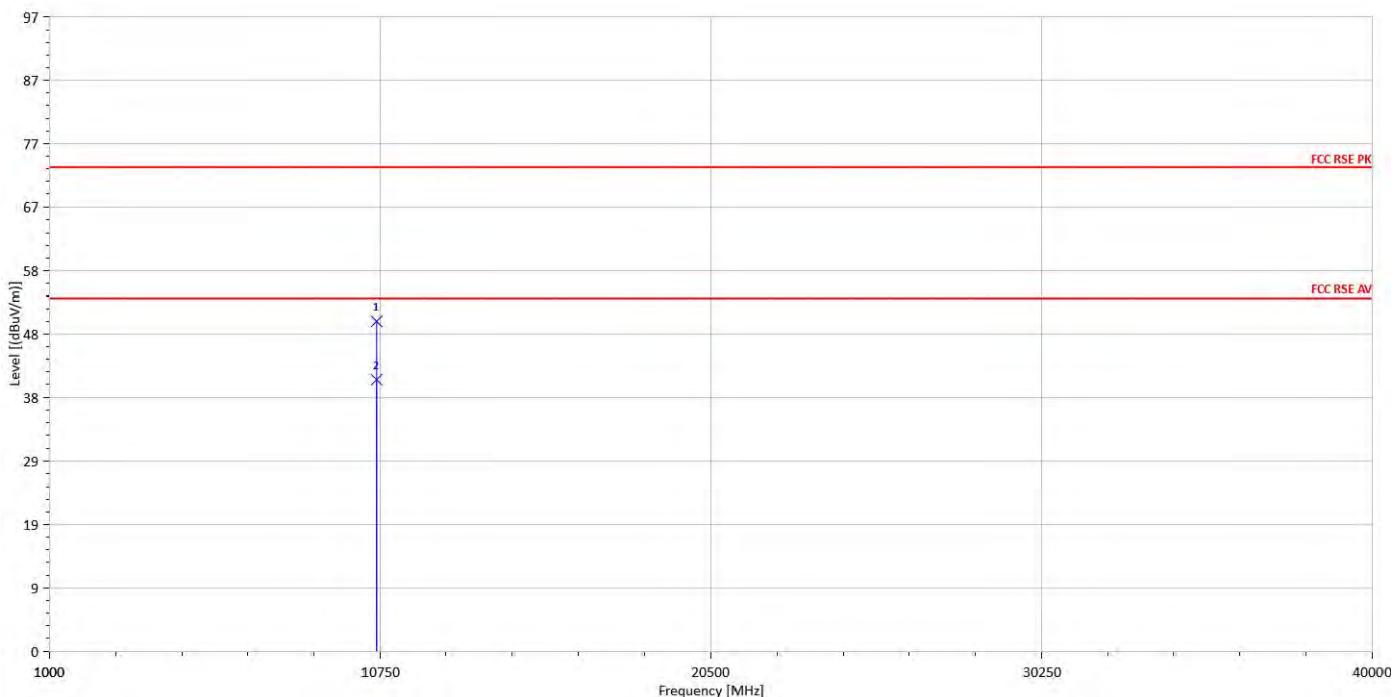
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	H	Peak	29.77	20.34	50.11	74	-23.89
10640.00	H	Average	21.01	20.34	41.35	54	-12.65

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10640.00	H	Peak	30.13	20.34	50.48	74	-23.52
10640.00	H	Average	21.14	20.34	41.48	54	-12.52

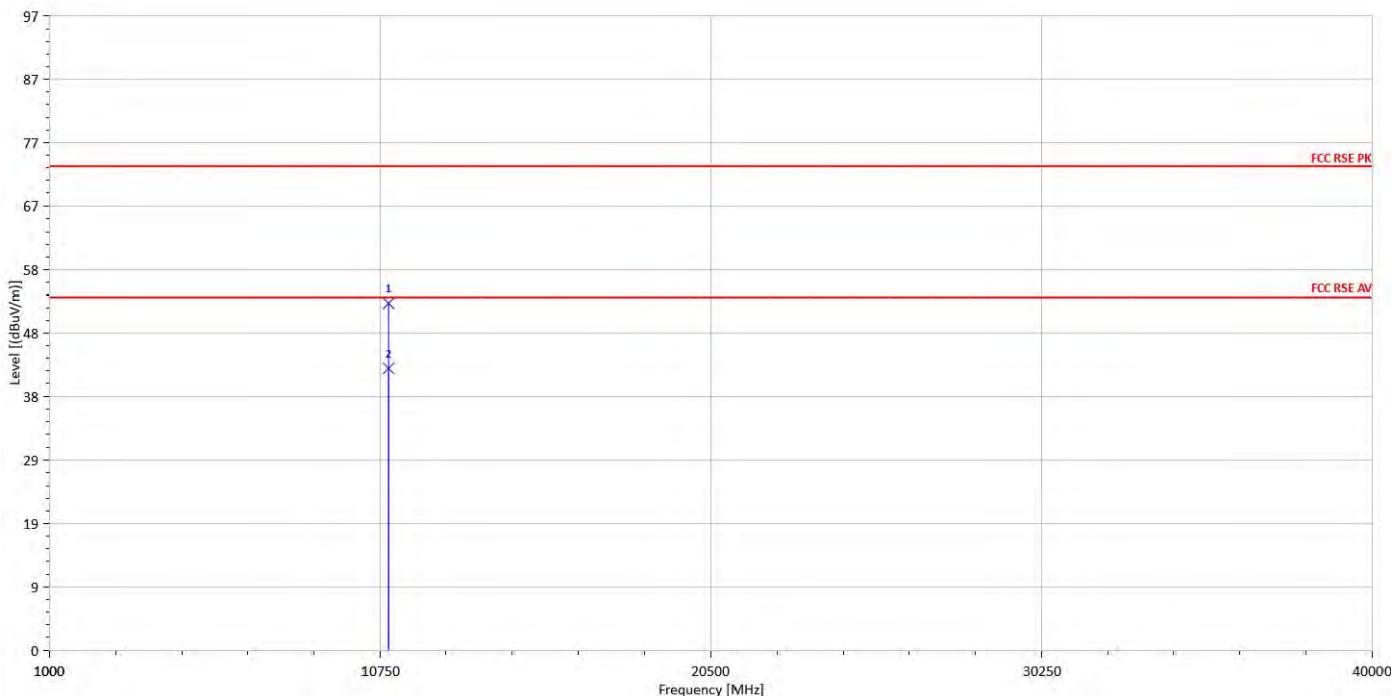
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**Radiated Emission Measurement Result****802.11ac\_VHT20, 5470~5725 MHz**

Operation Mode : 802.11ac20 Test Date : 2016/7/5  
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



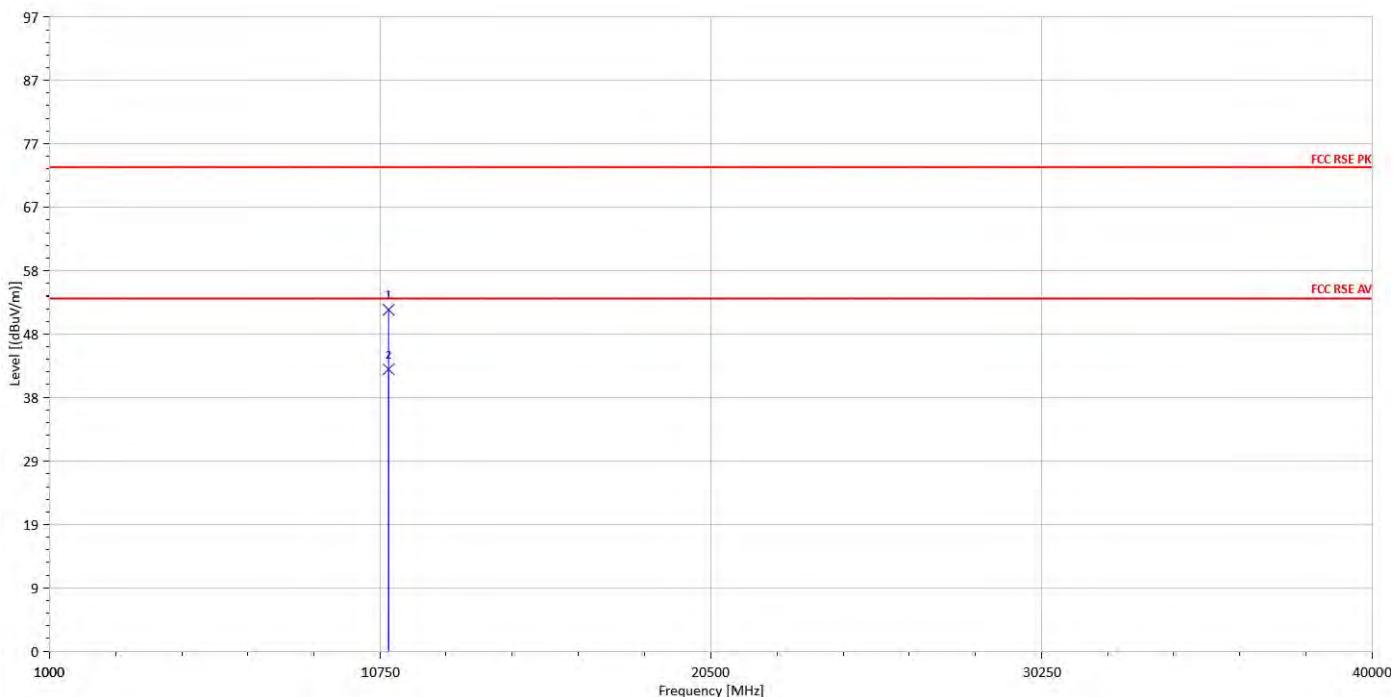
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	dBμV/m	dBμV/m	dB
11000.00	H	Peak	31.00	22.11	53.10	74	-20.90
11000.00	H	Average	20.97	22.11	43.08	54	-10.92

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Operation Mode : 802.11ac20      Test Date : 2016/7/5  
 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



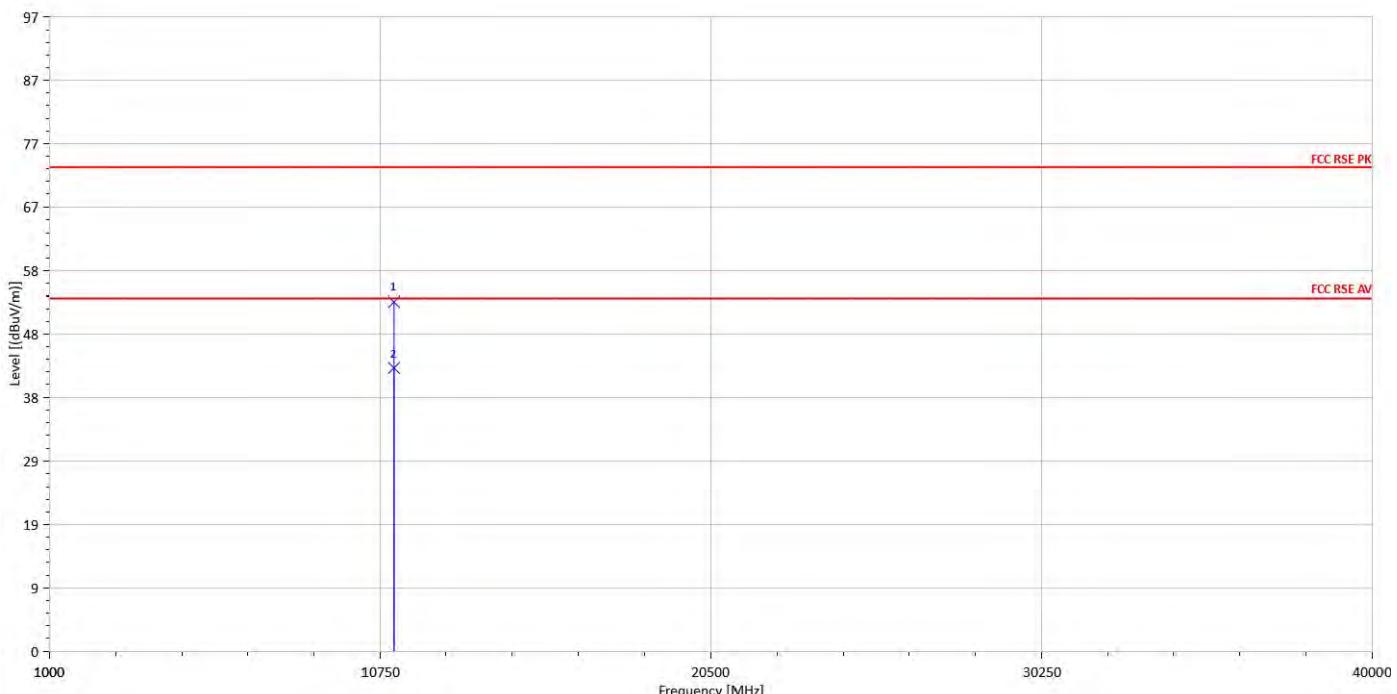
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11000.00	H	Peak	30.16	22.11	52.27	74	-21.73
11000.00	H	Average	20.98	22.11	43.09	54	-10.91

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
 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



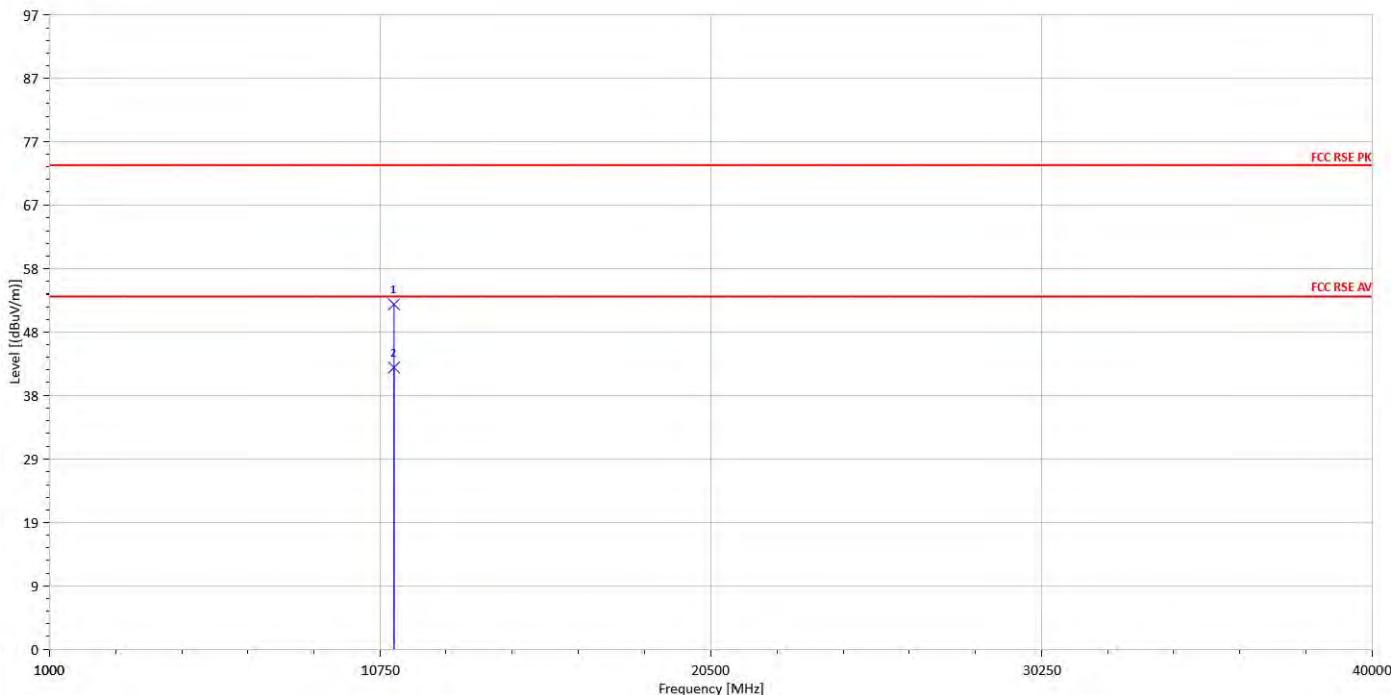
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	H	Peak	31.41	22.04	53.45	74	-20.55
11160.00	H	Average	21.25	22.04	43.29	54	-10.71

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
 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



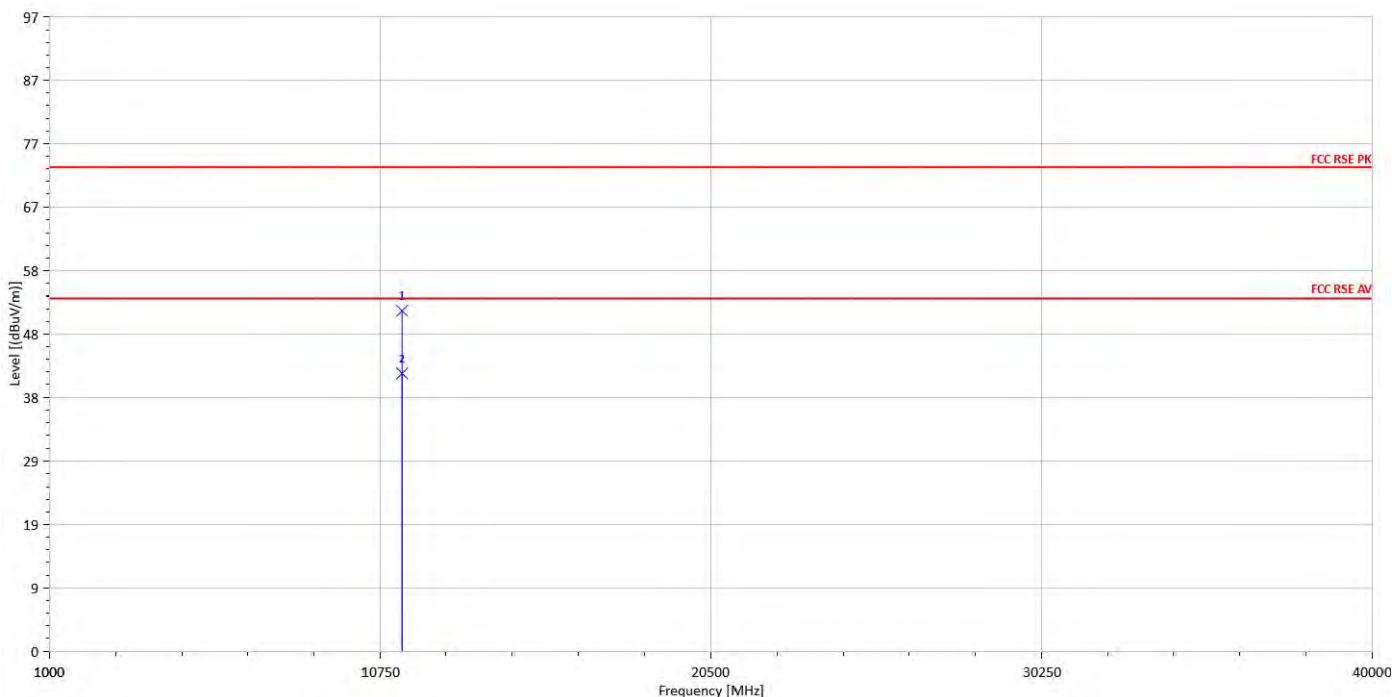
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	H	Peak	30.76	22.04	52.79	74	-21.21
11160.00	H	Average	21.02	22.04	43.06	54	-10.94

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
 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



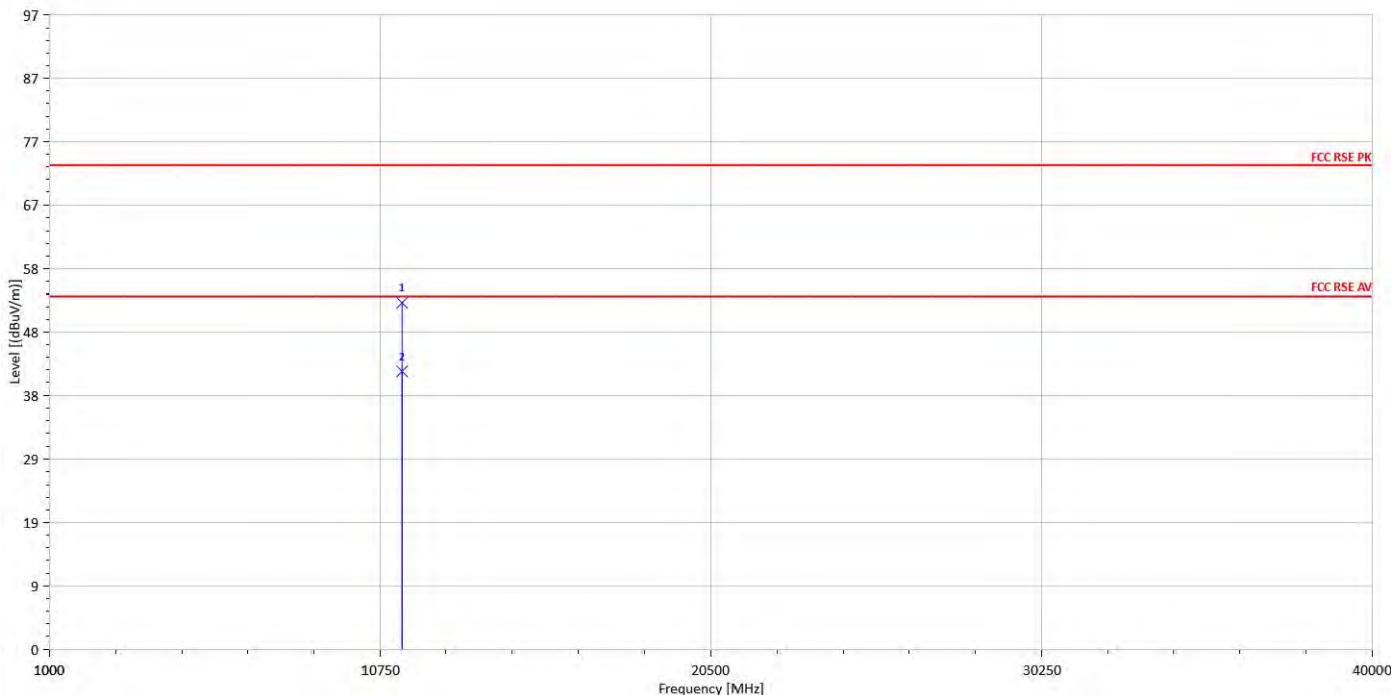
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	H	Peak	30.89	21.22	52.11	74	-21.89
11400.00	H	Average	21.23	21.22	42.45	54	-11.55

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Operation Mode : 802.11ac20      Test Date : 2016/7/5  
 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.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	H	Peak	31.81	21.22	53.02	74	-20.98
11400.00	H	Average	21.24	21.22	42.46	54	-11.54

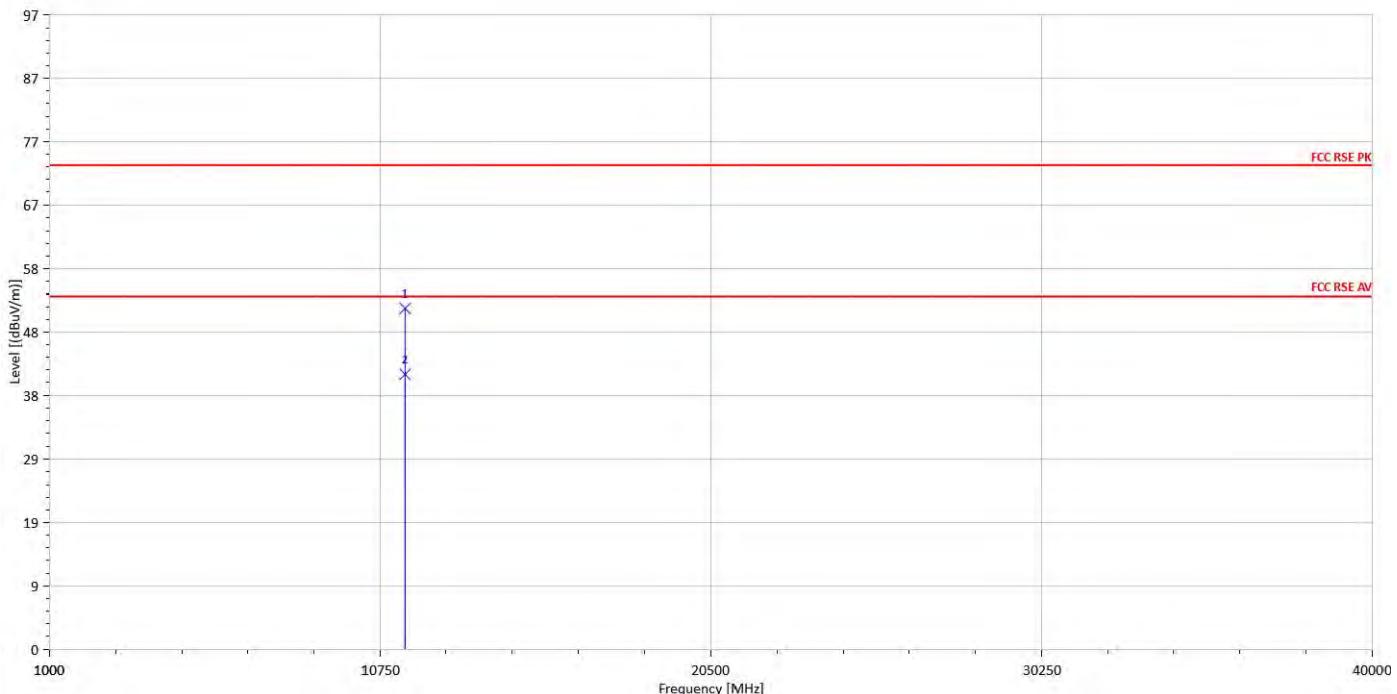
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**Radiated Emission Measurement Result****802.11ac\_VHT20, 5725~5850 MHz**

Operation Mode : 802.11ac20      Test Date : 2016/7/5  
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



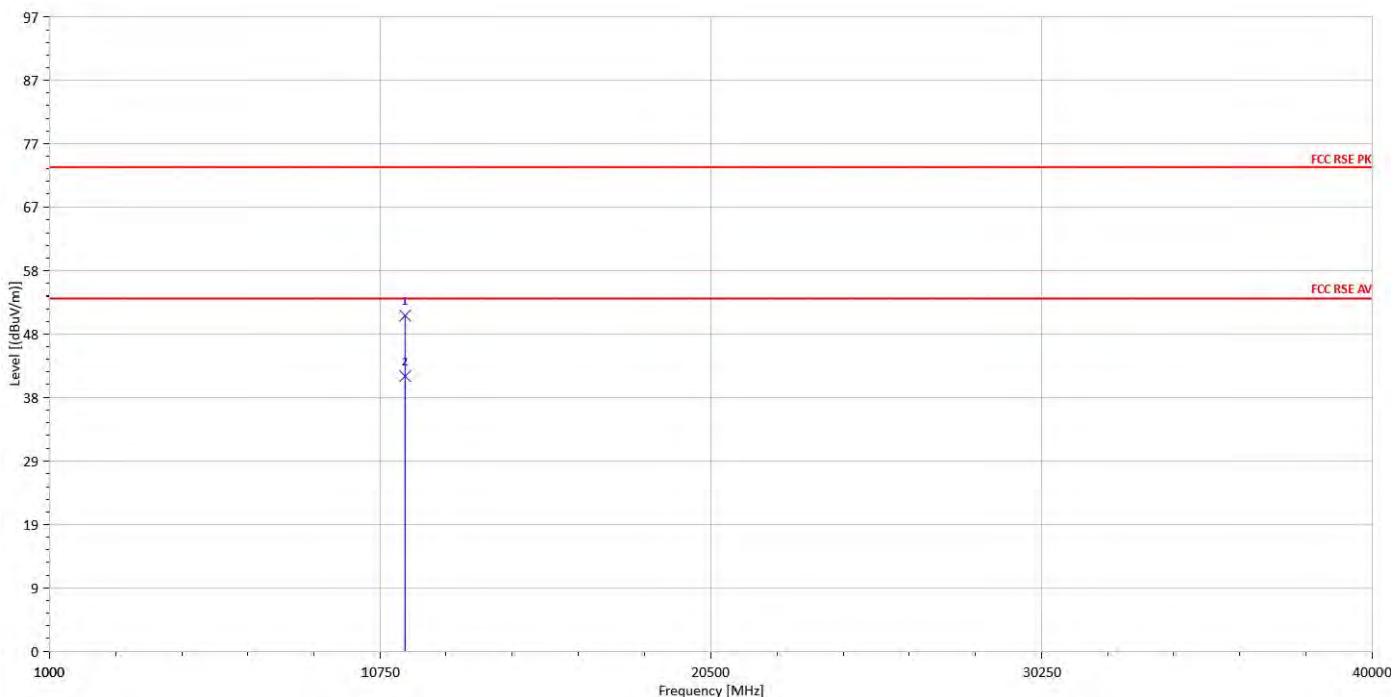
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11490.00	H	Peak	31.47	20.70	52.17	74	-21.83
11490.00	H	Average	21.29	20.70	41.99	54	-12.01

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
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



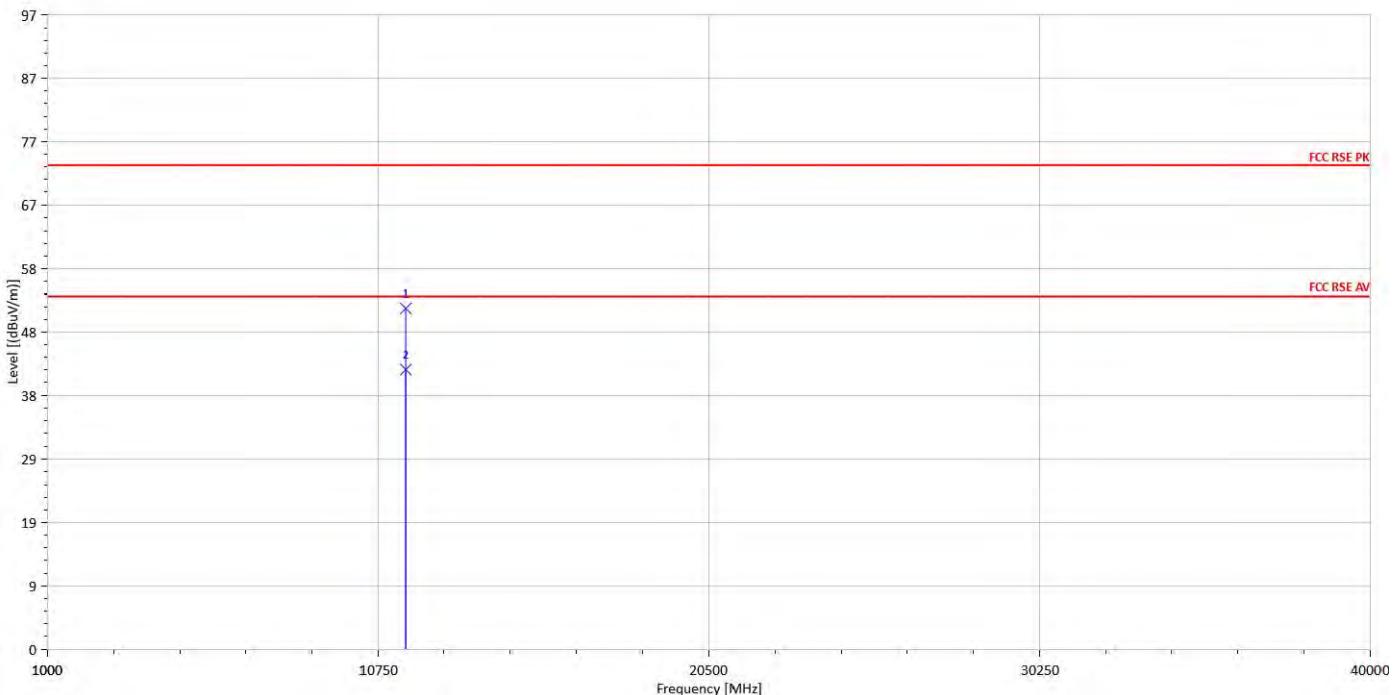
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	H	Peak	30.67	20.70	51.37	74	-22.63
11490.00	H	Average	21.31	20.70	42.01	54	-11.99

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
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



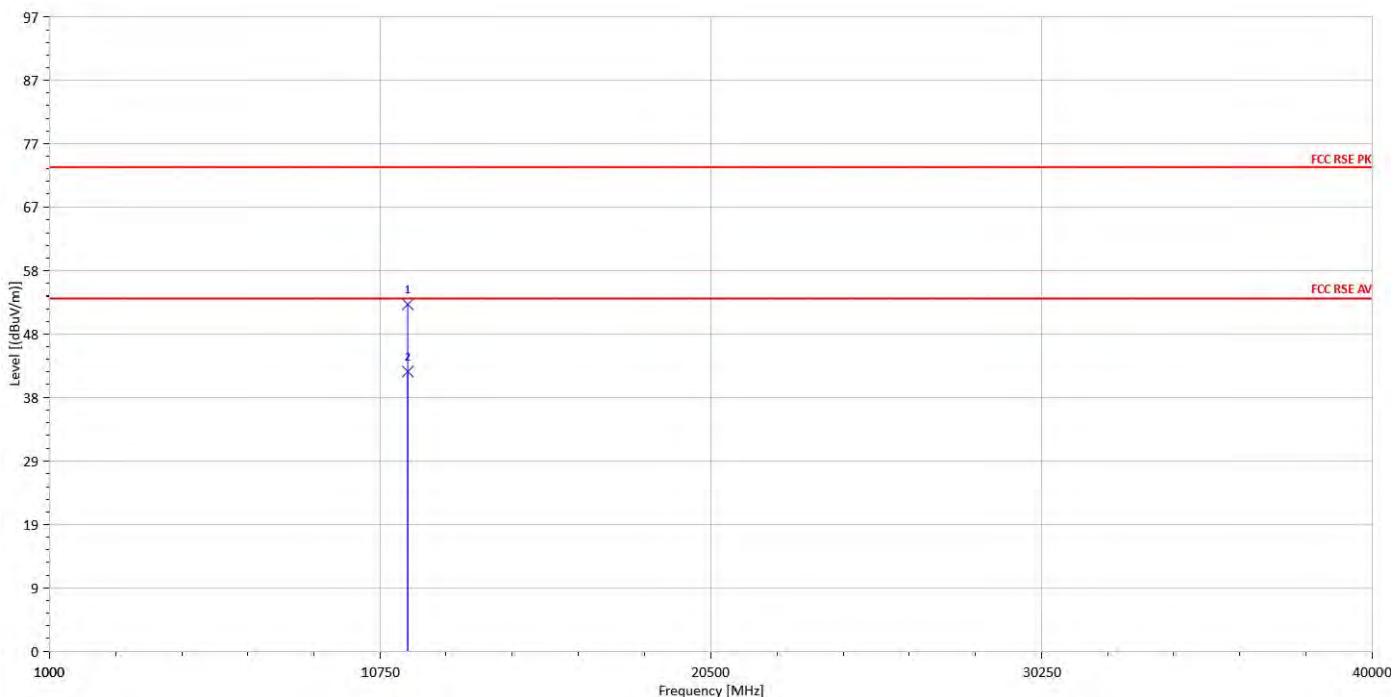
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Peak	30.72	21.44	52.16	74	-21.84
11570.00	H	Average	21.28	21.44	42.72	54	-11.28

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
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



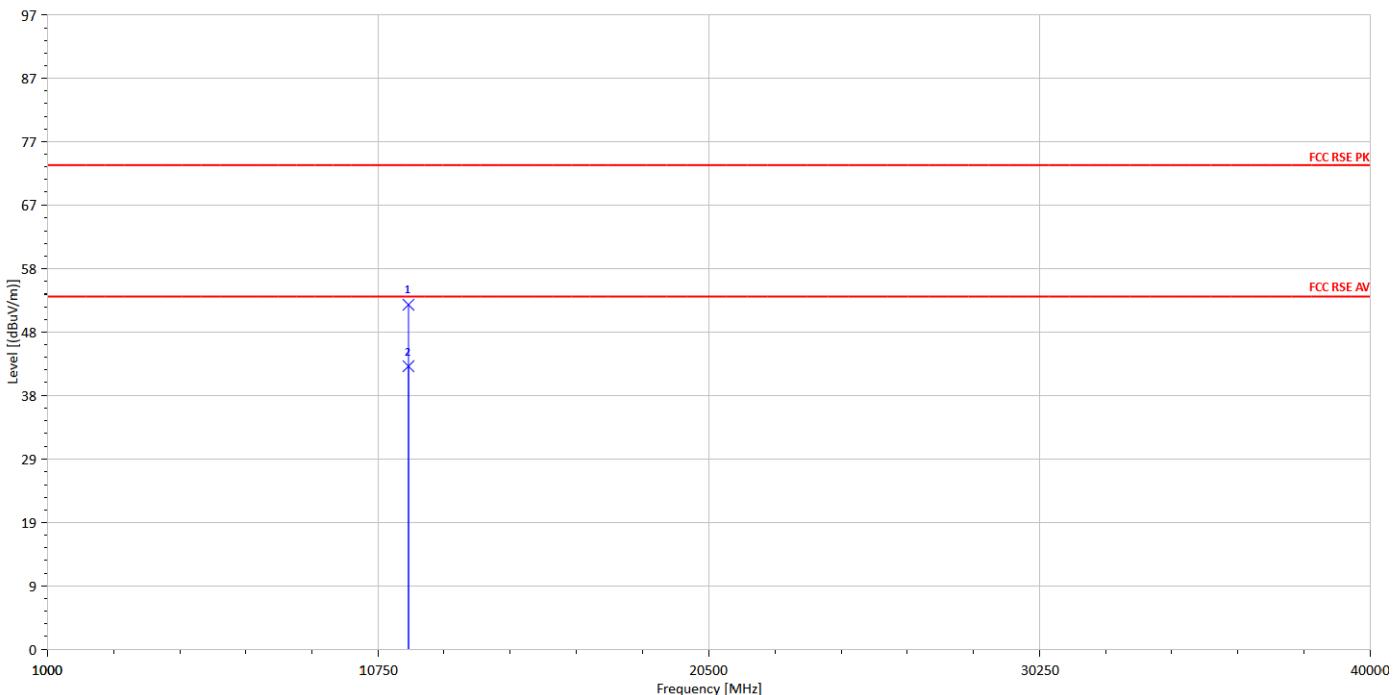
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Peak	31.65	21.44	53.10	74	-20.90
11570.00	H	Average	21.28	21.44	42.72	54	-11.28

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
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



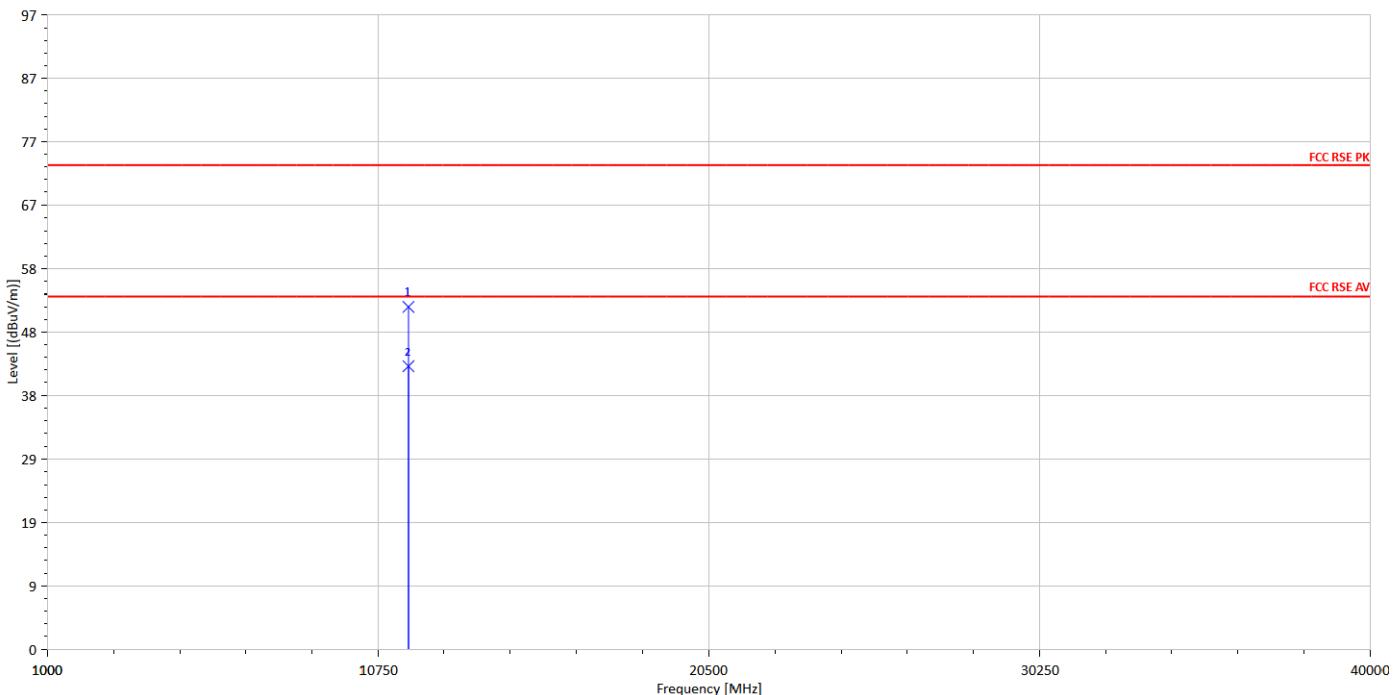
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11650.00	H	Peak	30.71	22.02	52.74	74	-21.26
11650.00	H	Average	21.22	22.02	43.24	54	-10.76

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Operation Mode : 802.11ac20 Test Date : 2016/7/5  
 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.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	H	Peak	30.38	22.02	52.40	74	-21.60
11650.00	H	Average	21.22	22.02	43.24	54	-10.76

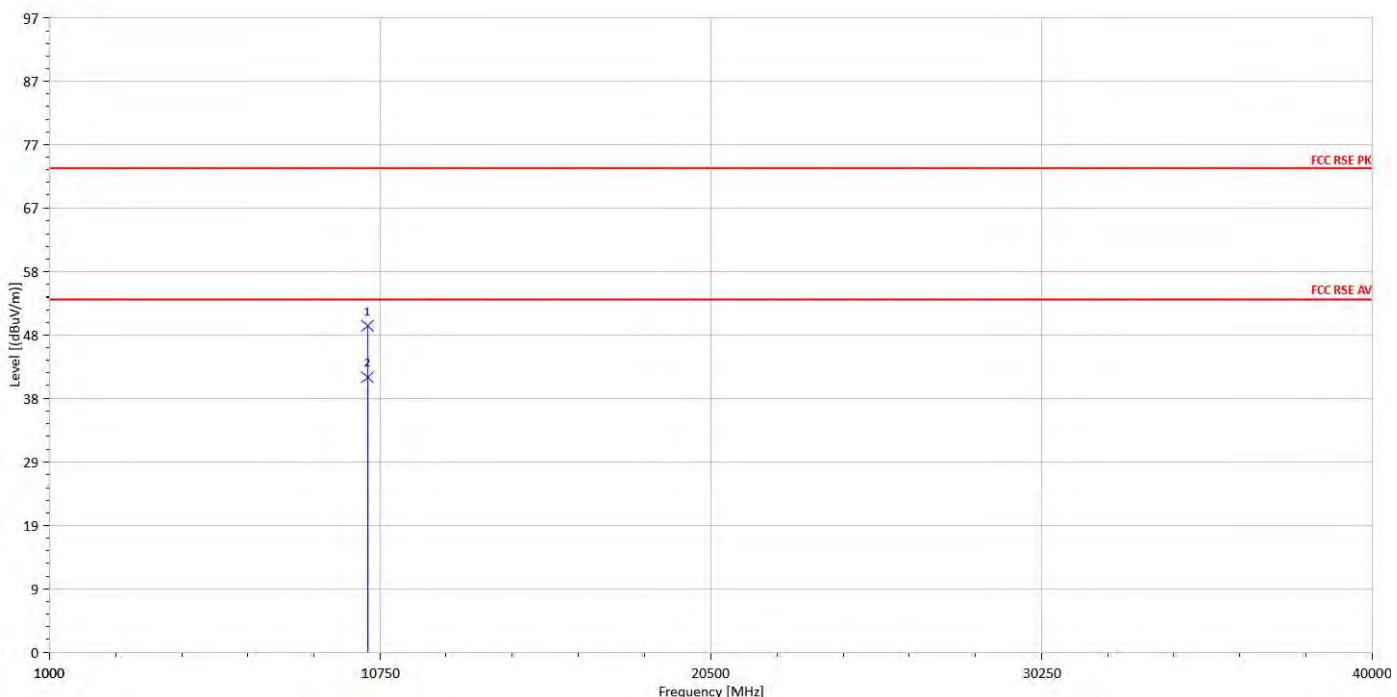
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**Radiated Spurious Emission Measurement Result****802.11ac\_VHT40, 5150~5250 MHz**

Operation Mode : 802.11ac40 Test Date : 2016/7/5  
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



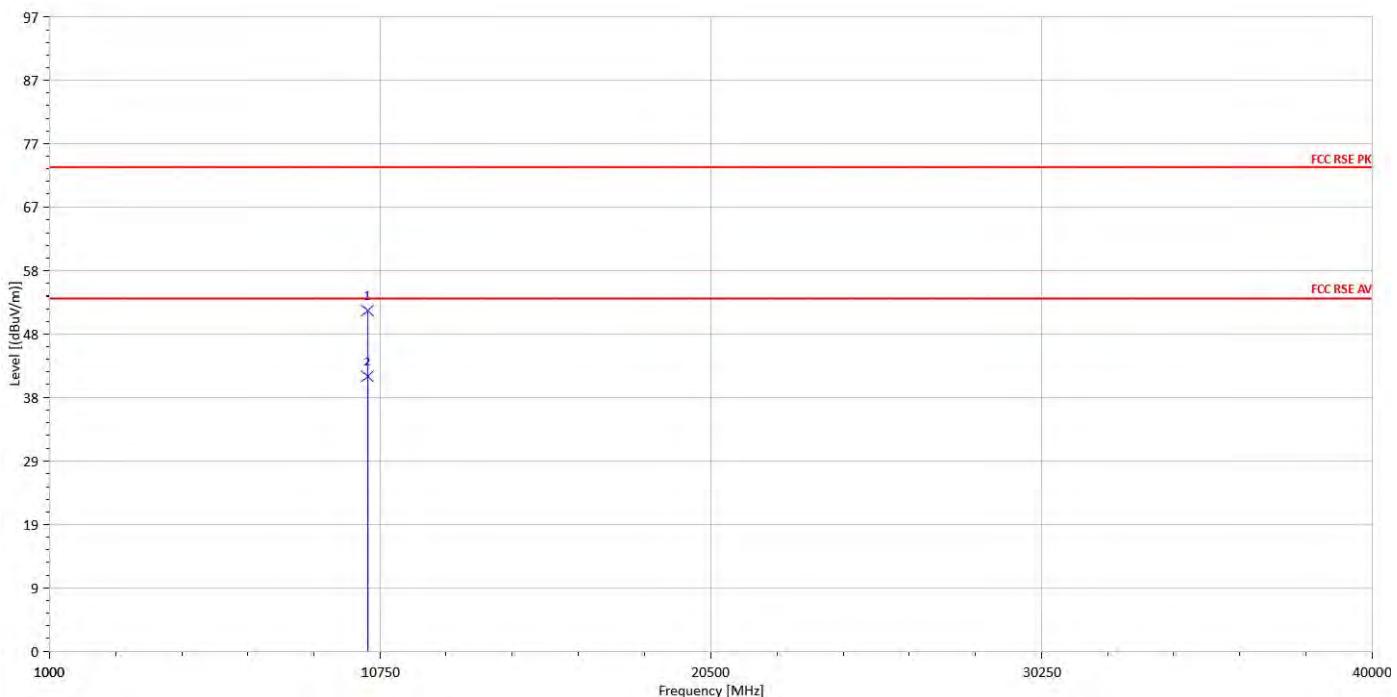
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10380.00	H	Peak	29.00	20.95	49.95	74	-24.05
10380.00	H	Average	21.04	20.95	41.99	54	-12.01

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
 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



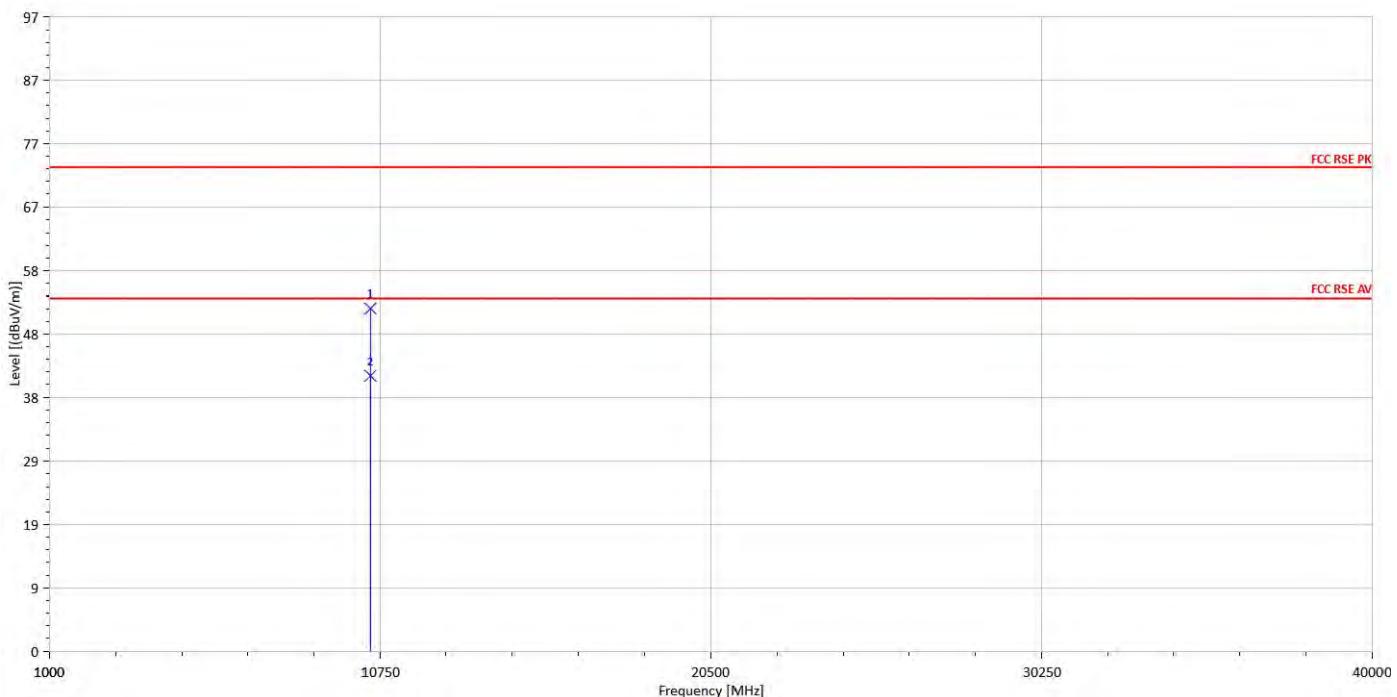
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10380.00	H	Peak	31.20	20.95	52.15	74	-21.85
10380.00	H	Average	21.04	20.95	41.99	54	-12.01

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Operation Mode : 802.11ac40 Test Date : 2016/7/5  
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



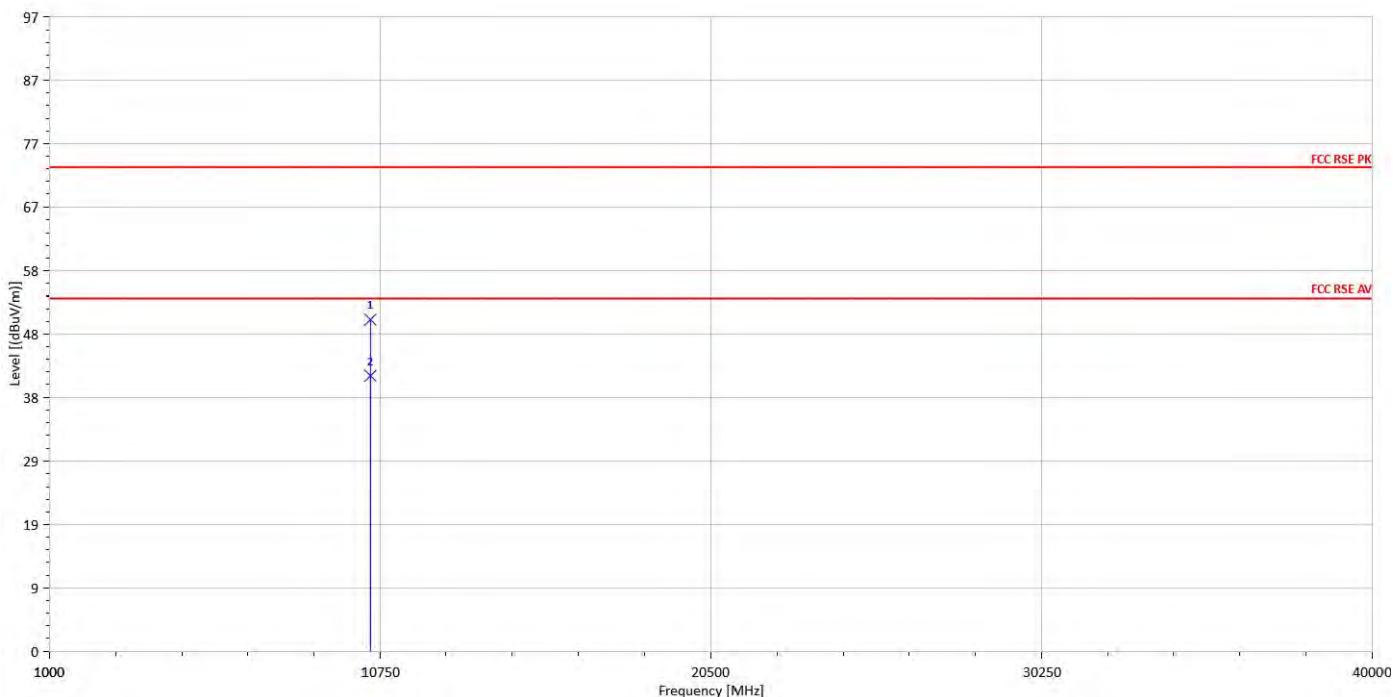
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10460.00	H	Peak	31.51	20.95	52.46	74	-21.54
10460.00	H	Average	21.12	20.95	42.07	54	-11.93

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
 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.	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
10460.00	H	Peak	29.80	20.95	50.75	74	-23.25
10460.00	H	Average	21.13	20.95	42.08	54	-11.92

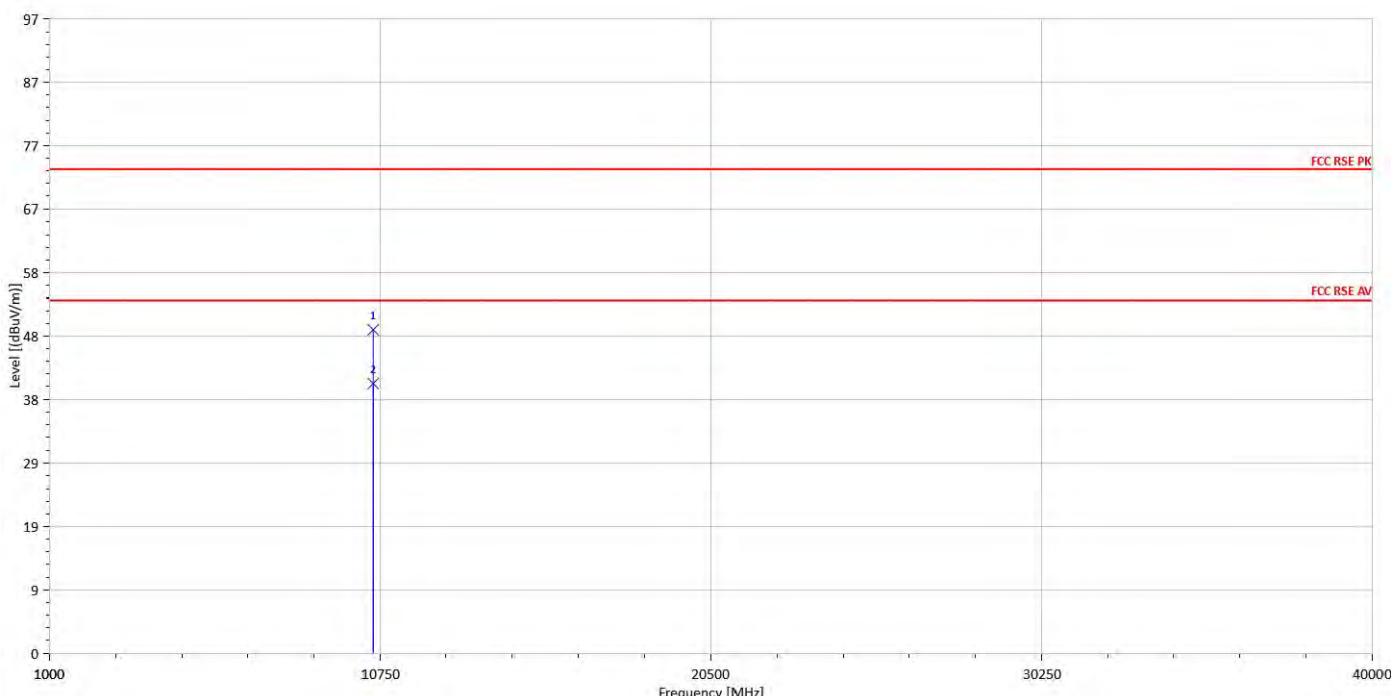
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**Radiated Spurious Emission Measurement Result****802.11ac\_VHT40, 5250~5350 MHz**

Operation Mode : 802.11ac40 Test Date : 2016/7/5  
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



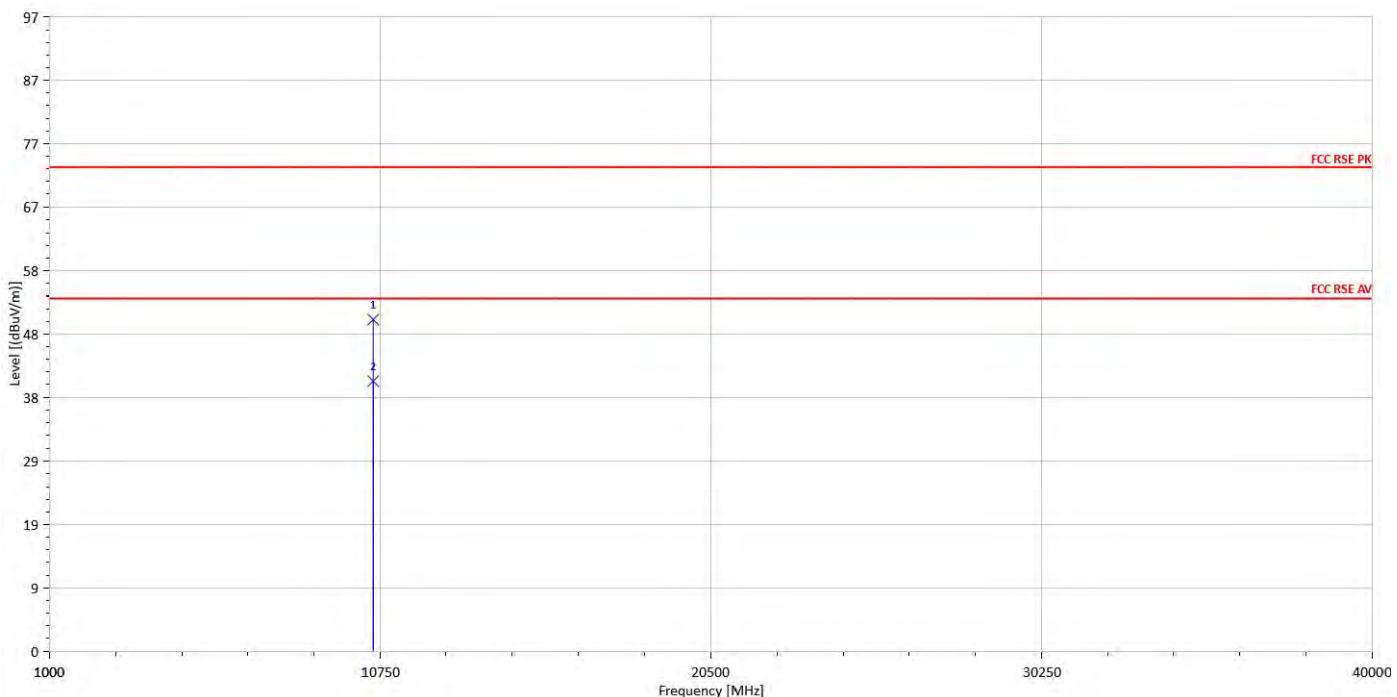
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10540.00	H	Peak	29.42	20.06	49.48	74	-24.52
10540.00	H	Average	21.13	20.06	41.19	54	-12.81

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
 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



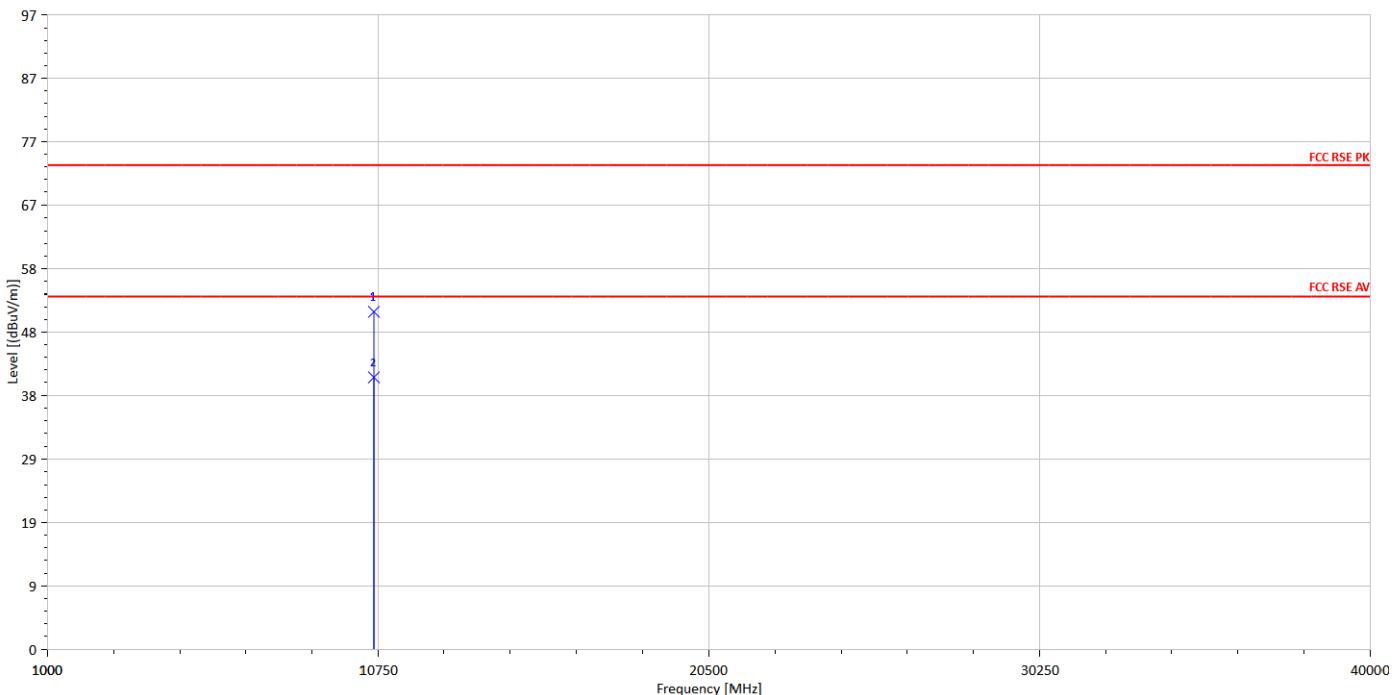
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10540.00	H	Peak	30.68	20.06	50.74	74	-23.26
10540.00	H	Average	21.19	20.06	41.25	54	-12.75

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
 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



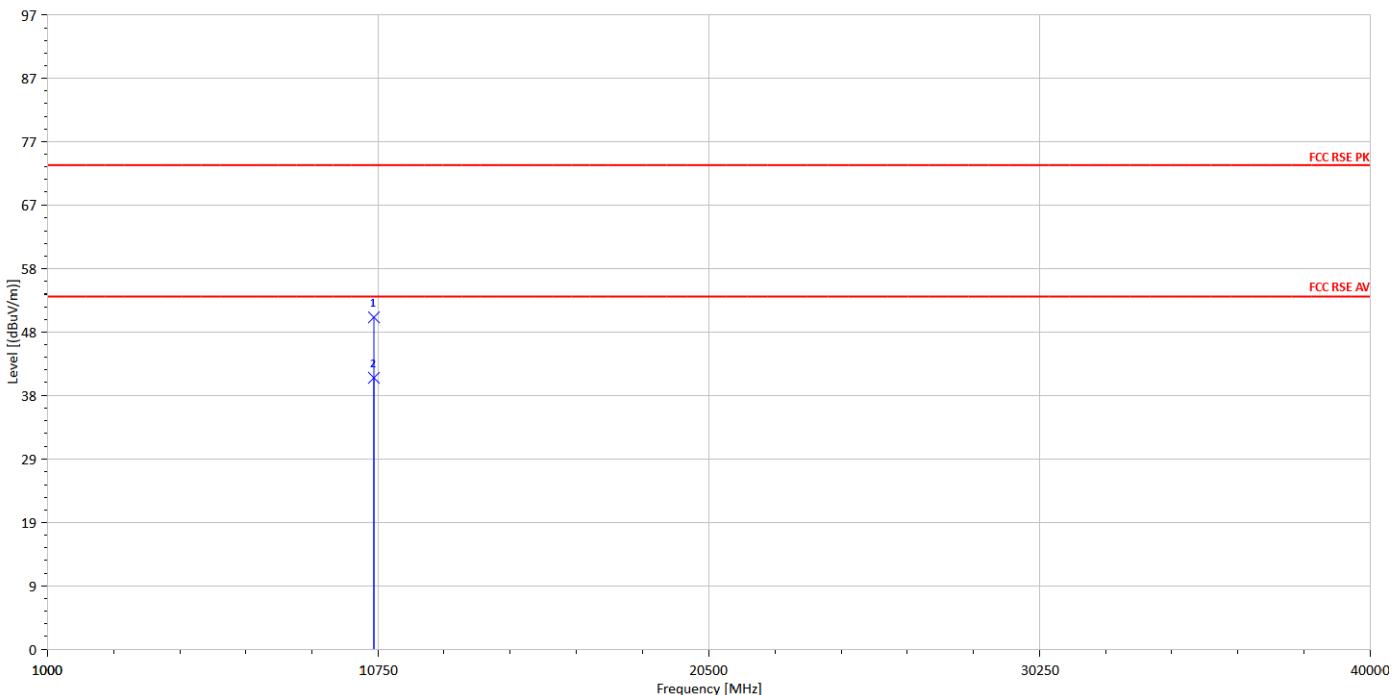
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10620.00	H	Peak	31.35	20.29	51.65	74	-22.35
10620.00	H	Average	21.23	20.29	41.52	54	-12.48

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
 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 dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10620.00	H	Peak	30.50	20.29	50.79	74	-23.21
10620.00	H	Average	21.16	20.29	41.45	54	-12.55

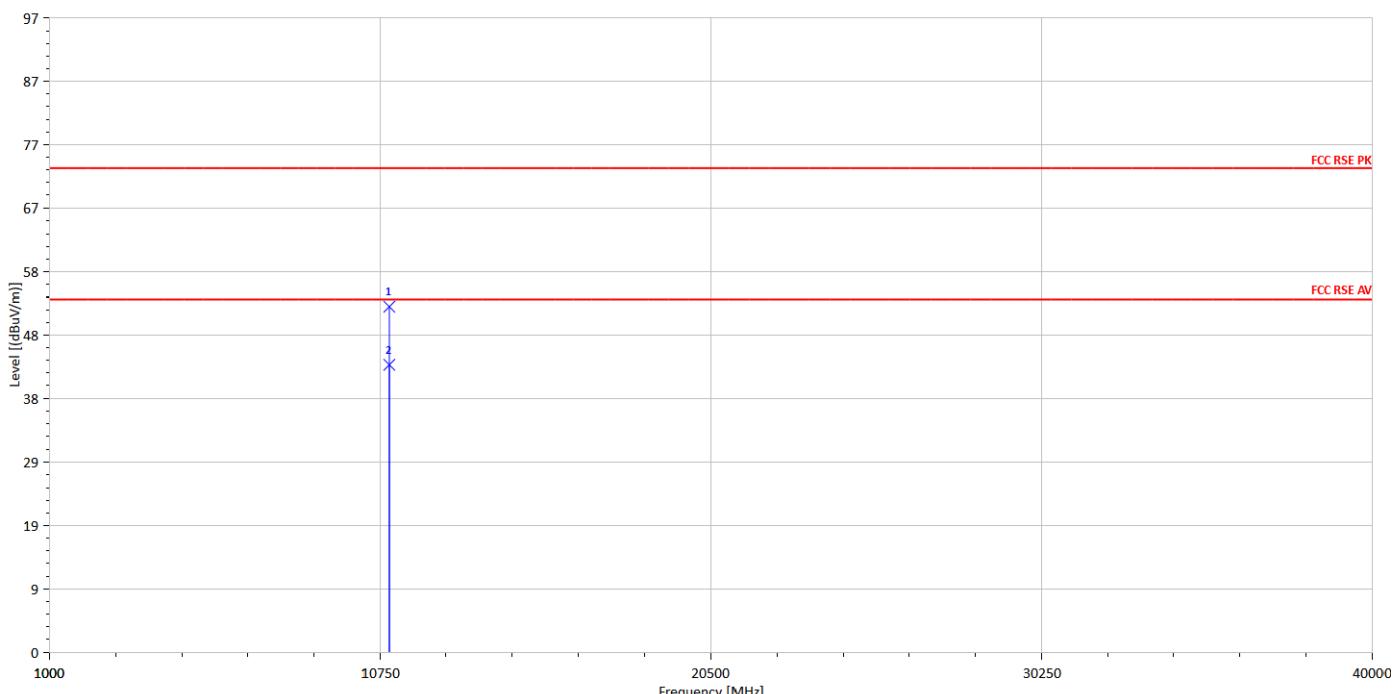
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**Radiated Spurious Emission Measurement Result****802.11ac\_VHT40, 5470~5725 MHz**

Operation Mode : 802.11ac40 Test Date : 2016/7/5  
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



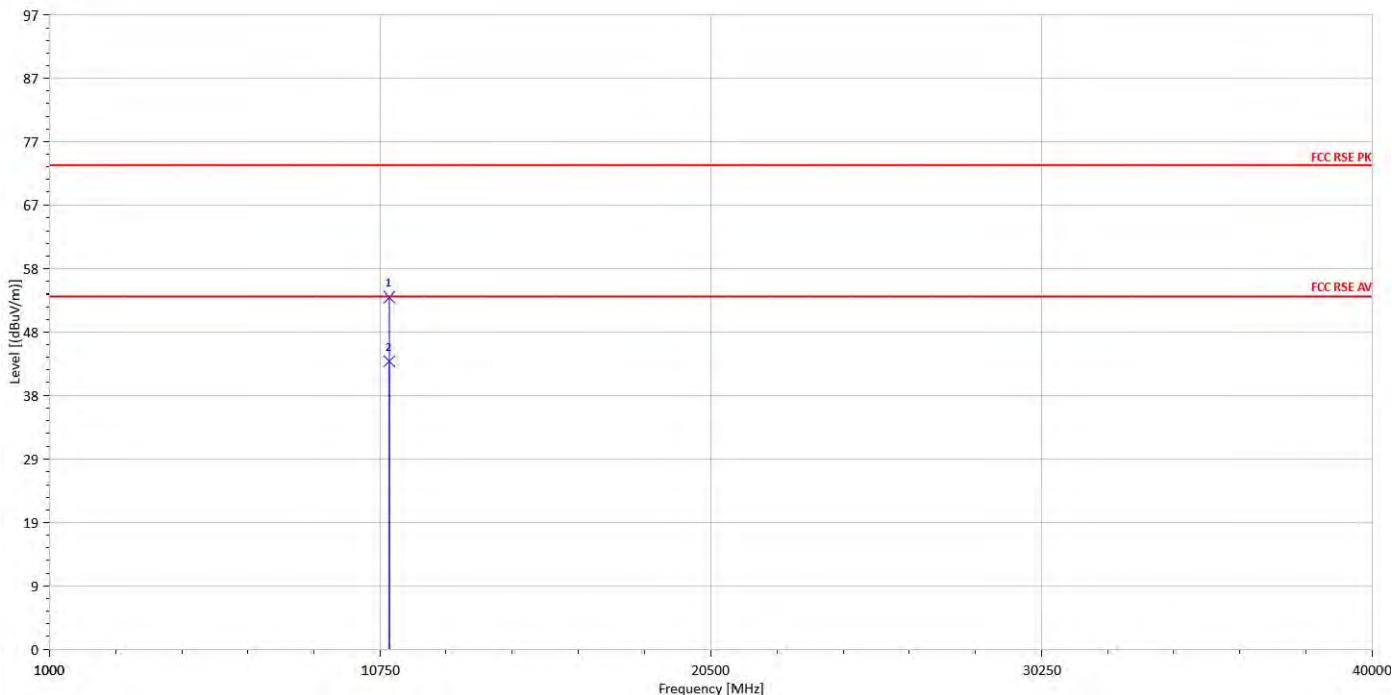
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11020.00	H	Peak	30.00	22.90	52.89	74	-21.11
11020.00	H	Average	21.03	22.90	43.93	54	-10.07

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Operation Mode : 802.11ac40 Test Date : 2016/7/5  
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



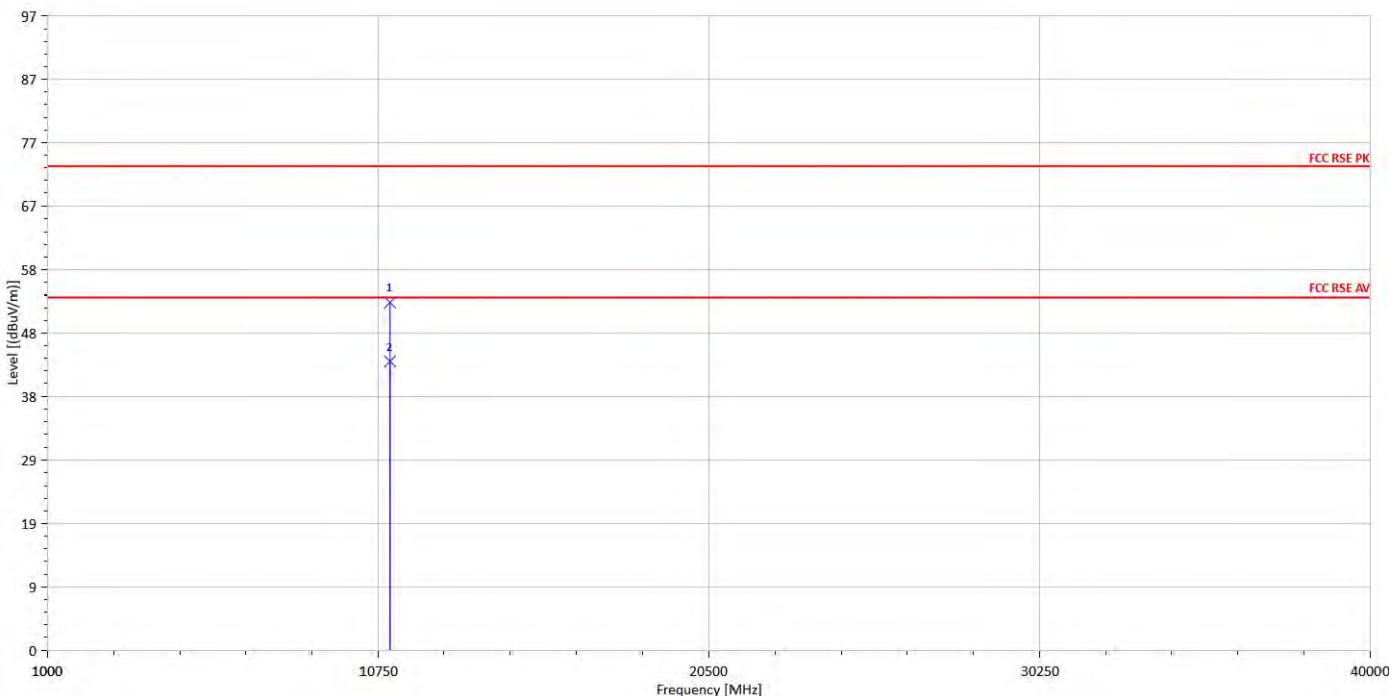
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11020.00	H	Peak	30.94	22.90	53.84	74	-20.16
11020.00	H	Average	21.11	22.90	44.01	54	-9.99

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
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



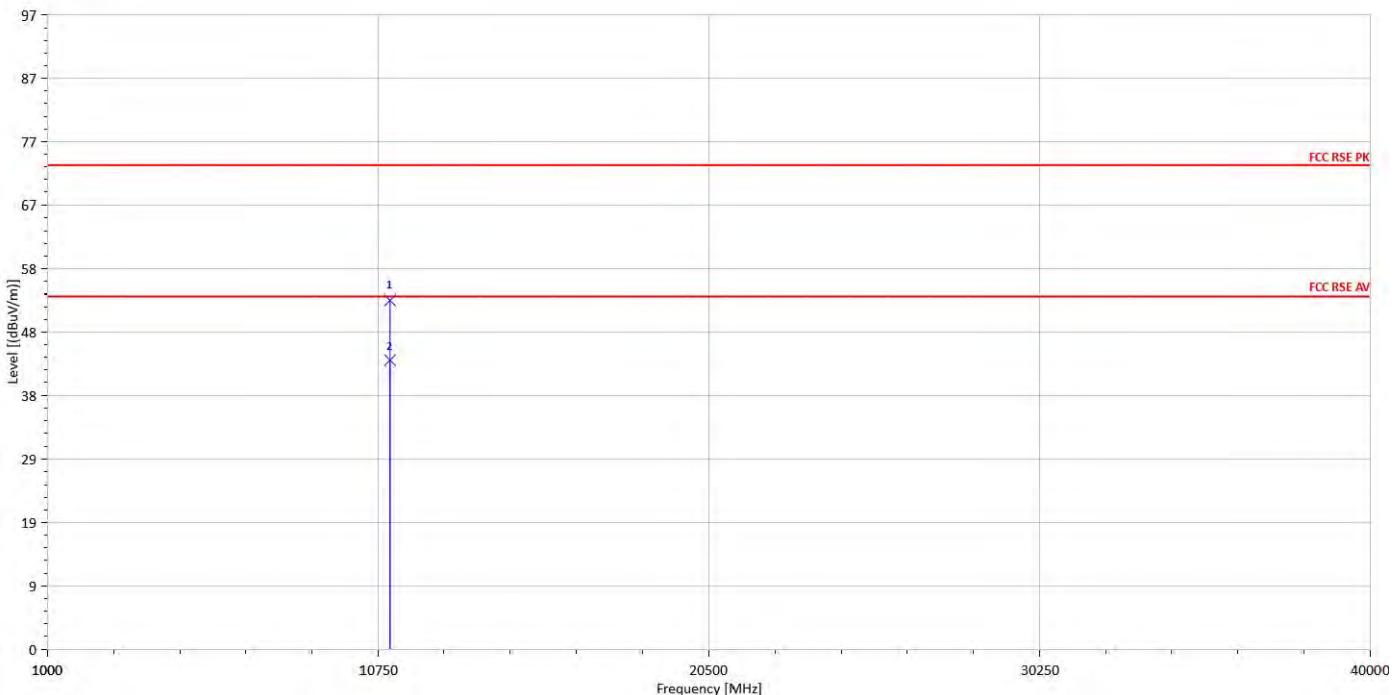
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11100.00	H	Peak	30.08	23.16	53.24	74	-20.76
11100.00	H	Average	20.99	23.16	44.15	54	-9.85

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
 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



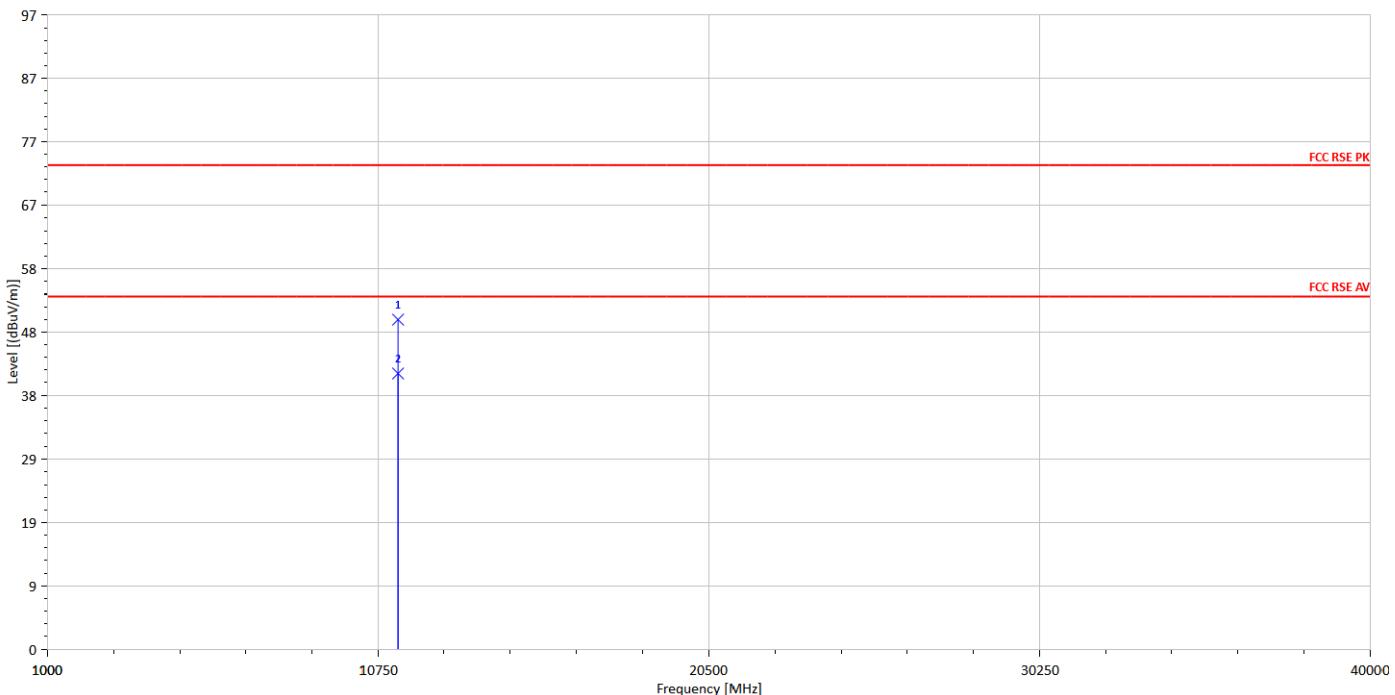
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.00	H	Peak	30.24	23.16	53.40	74	-20.60
11100.00	H	Average	21.02	23.16	44.18	54	-9.82

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Operation Mode : 802.11ac40 Test Date : 2016/7/5  
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



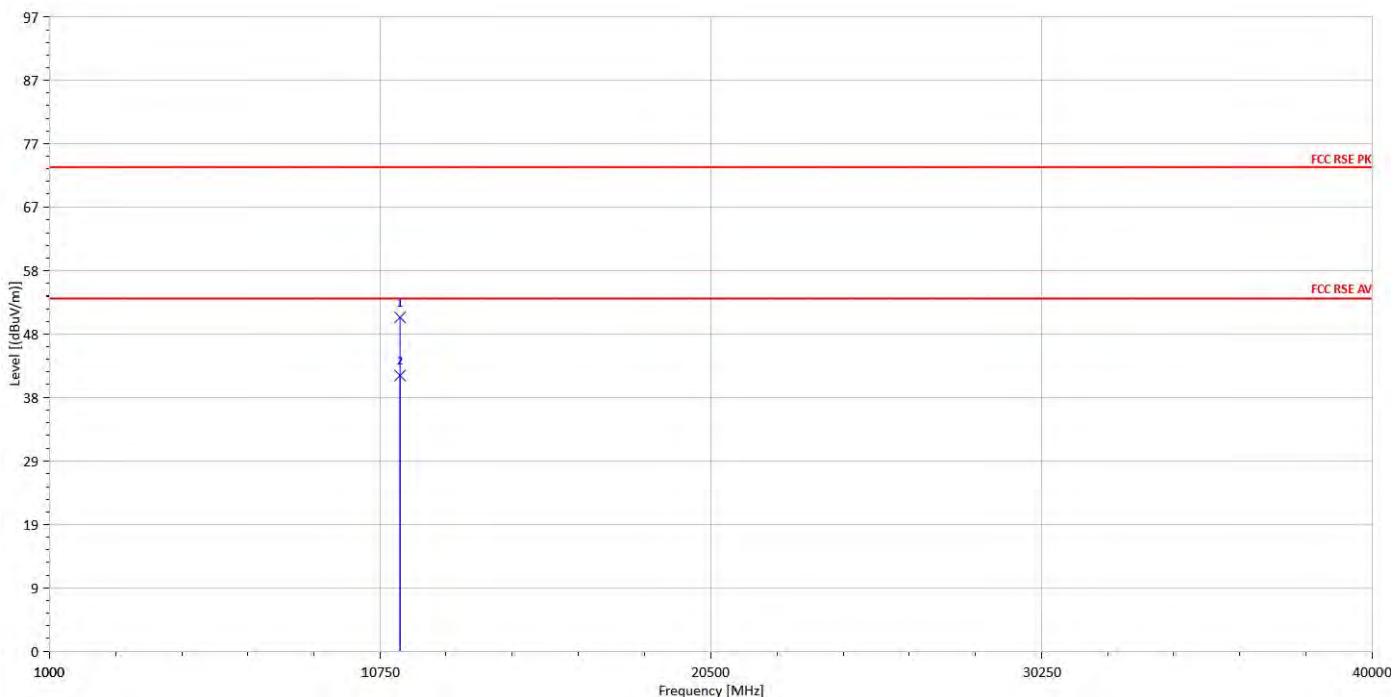
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11340.00	H	Peak	29.47	20.97	50.44	74	-23.56
11340.00	H	Average	21.15	20.97	42.12	54	-11.88

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
 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.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11340.00	H	Peak	30.13	20.97	51.09	74	-22.91
11340.00	H	Average	21.15	20.97	42.12	54	-11.88

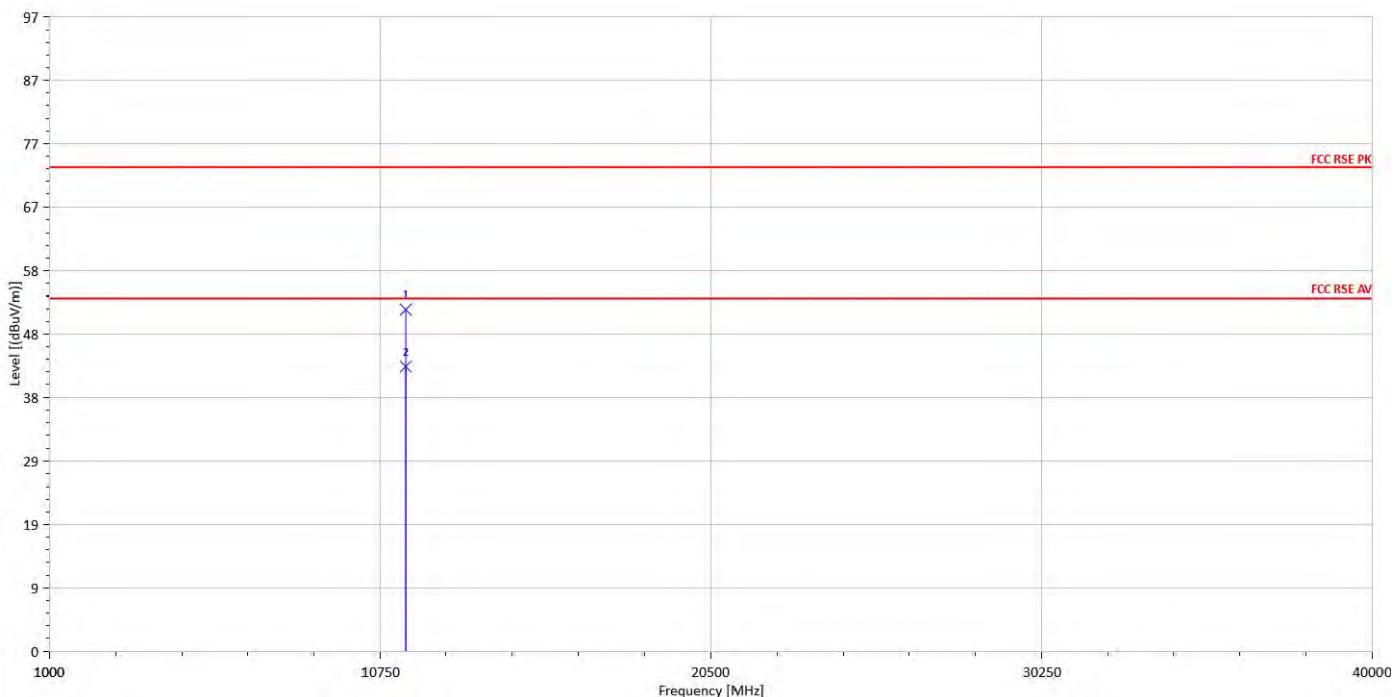
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**Radiated Spurious Emission Measurement Result****802.11ac\_VHT40, 5725~5850 MHz**

Operation Mode : 802.11ac40 Test Date : 2016/7/5  
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.	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
11510.00	H	Peak	30.13	22.17	52.30	74	-21.70
11510.00	H	Average	21.34	22.17	43.51	54	-10.49

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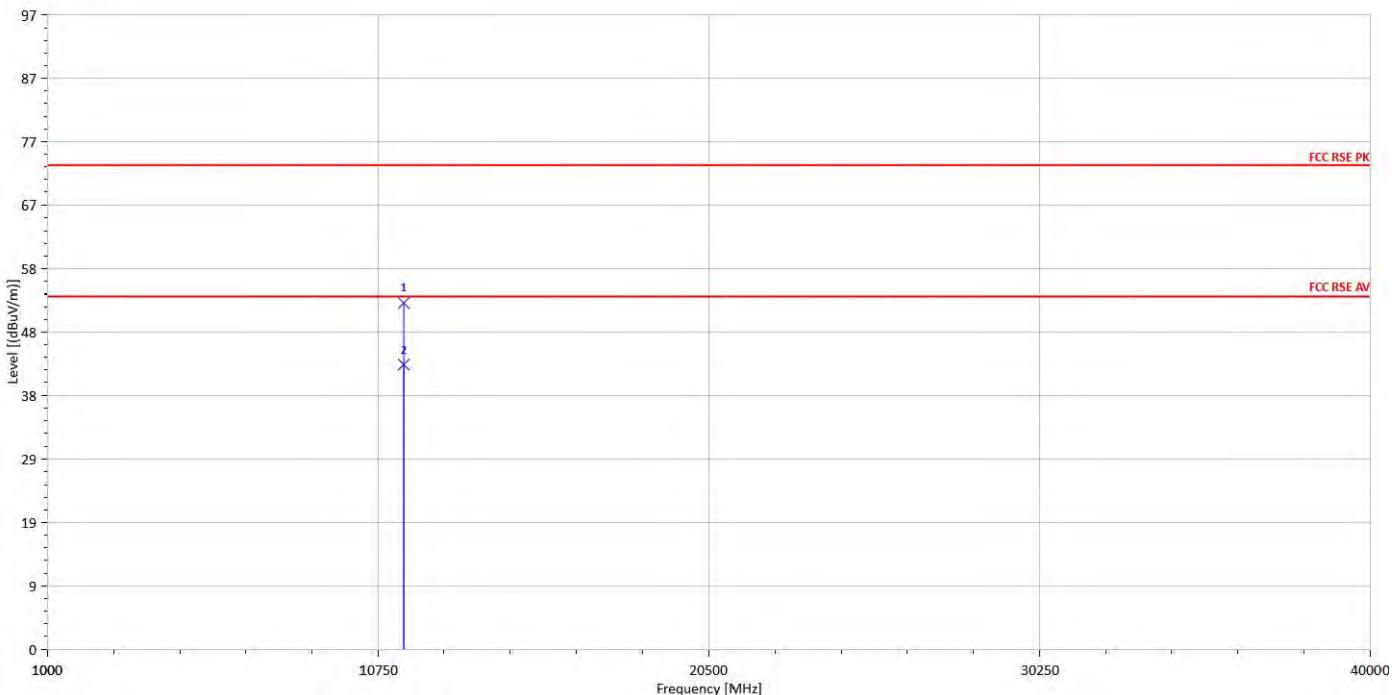
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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
 Fundamental Frequency : 5755 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



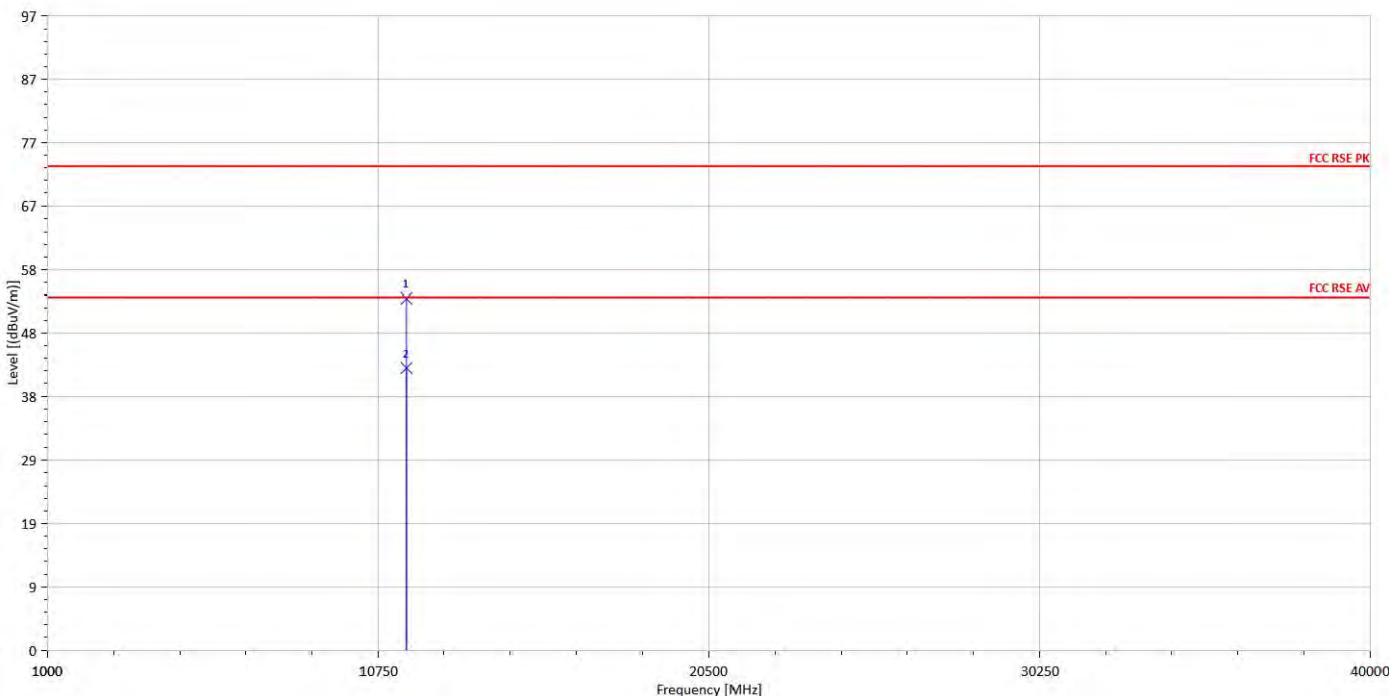
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11510.00	H	Peak	30.84	22.17	53.00	74	-21.00
11510.00	H	Average	21.33	22.17	43.50	54	-10.50

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
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



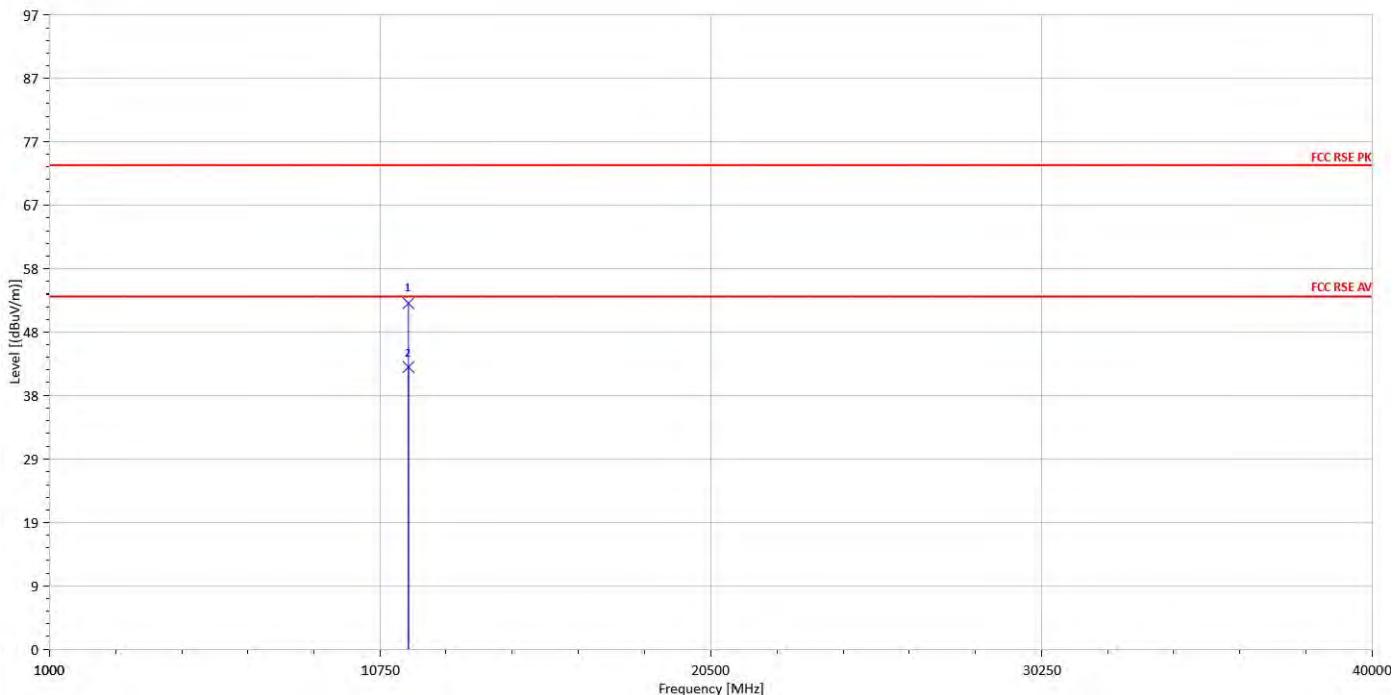
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11590.00	H	Peak	31.96	21.84	53.81	74	-20.19
11590.00	H	Average	21.28	21.84	43.12	54	-10.88

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
 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.	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
11590.00	H	Peak	31.12	21.84	52.97	74	-21.03
11590.00	H	Average	21.28	21.84	43.12	54	-10.88

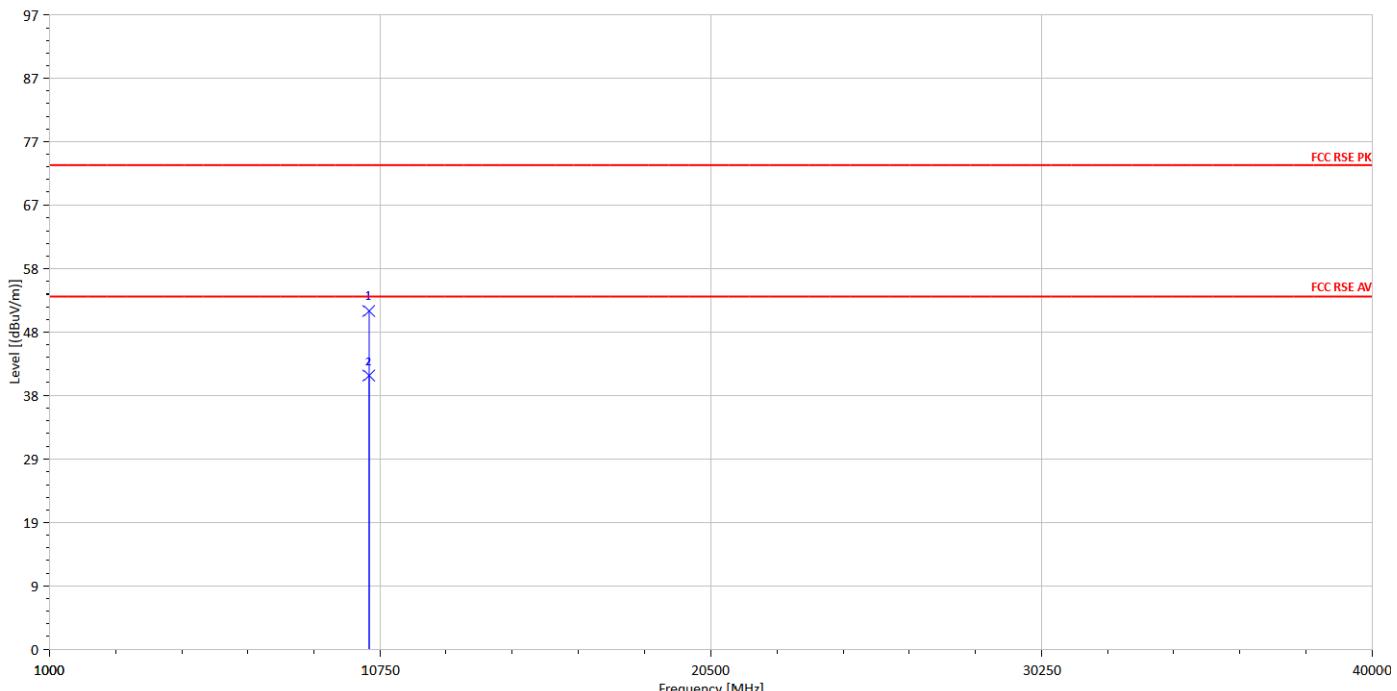
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**Radiated Spurious Emission Measurement Result****802.11ac\_VHT80, 5150~5250 MHz**

Operation Mode : 802.11ac80 Test Date : 2016/7/5  
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



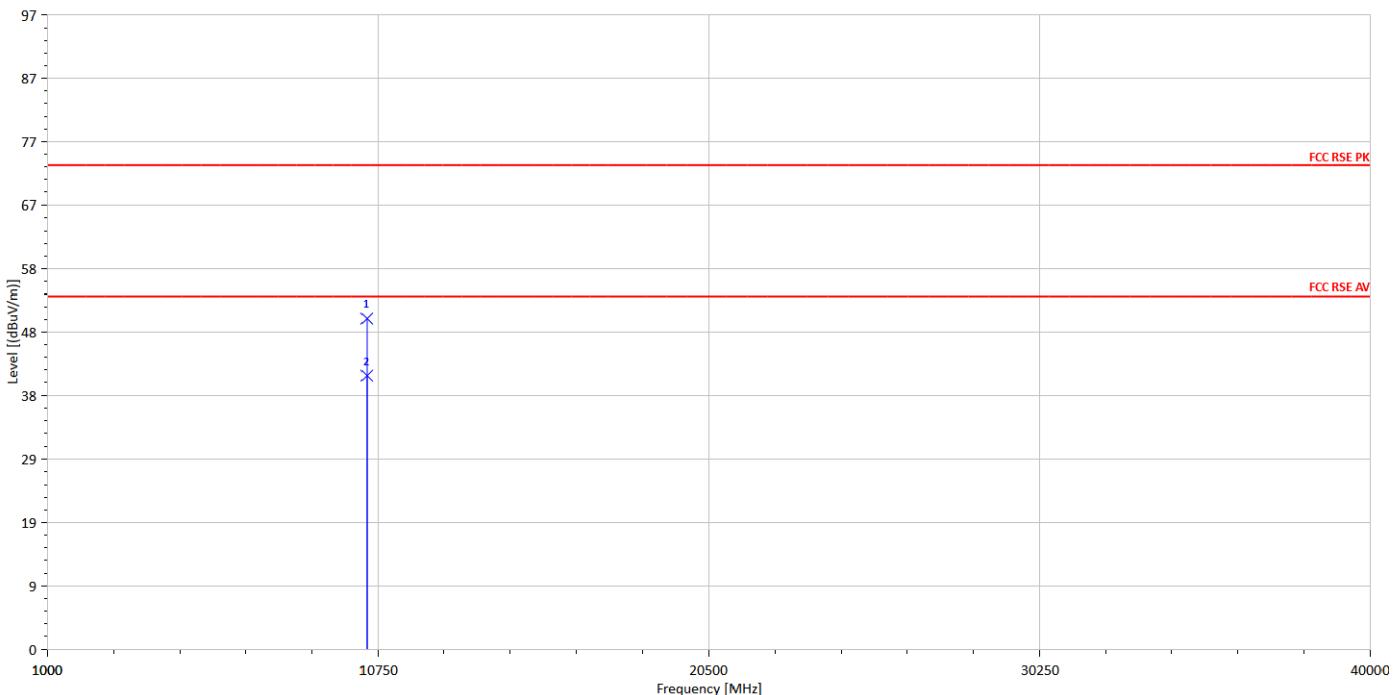
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	H	Peak	31.11	20.67	51.77	74	-22.23
10420.00	H	Average	21.14	20.67	41.81	54	-12.19

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Operation Mode : 802.11ac80 Test Date : 2016/7/5  
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.	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	29.93	20.67	50.60	74	-23.40
10420.00	H	Average	21.13	20.67	41.80	54	-12.20

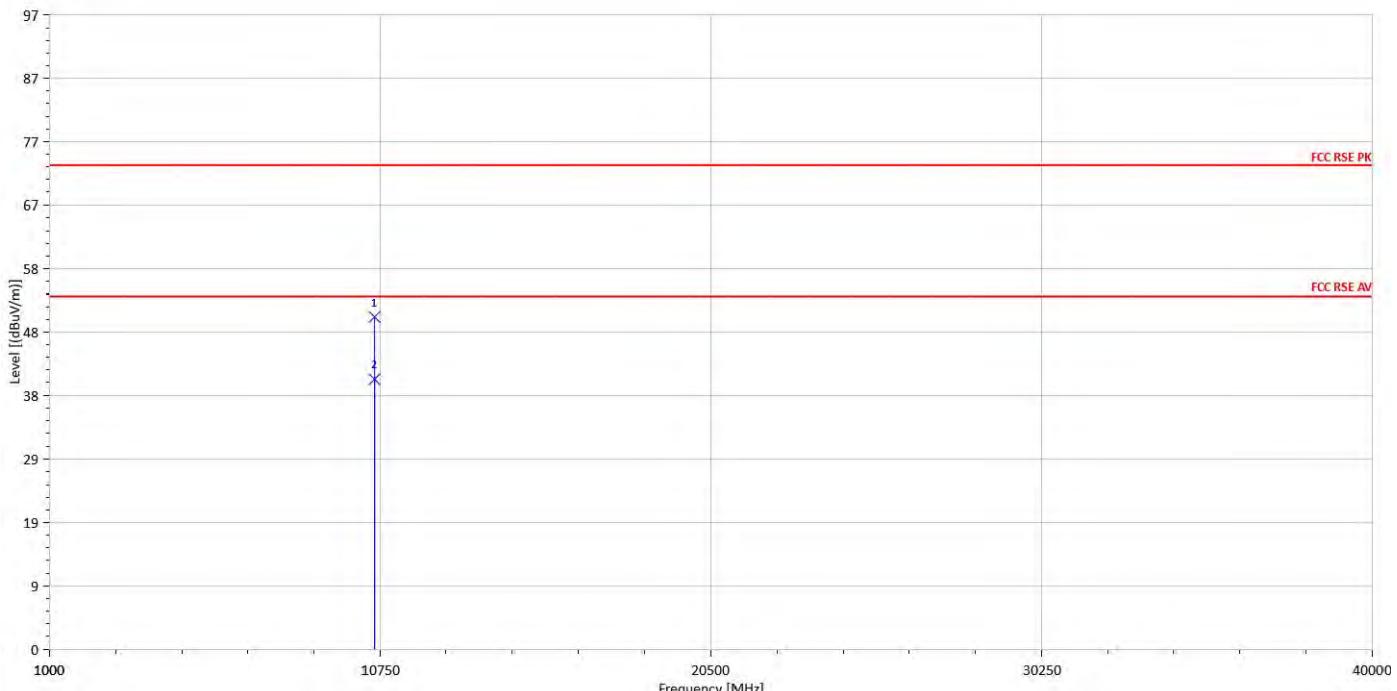
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**Radiated Spurious Emission Measurement Result****802.11ac\_VHT80, 5250~5350 MHz**

Operation Mode : 802.11ac80 Test Date : 2016/7/5  
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



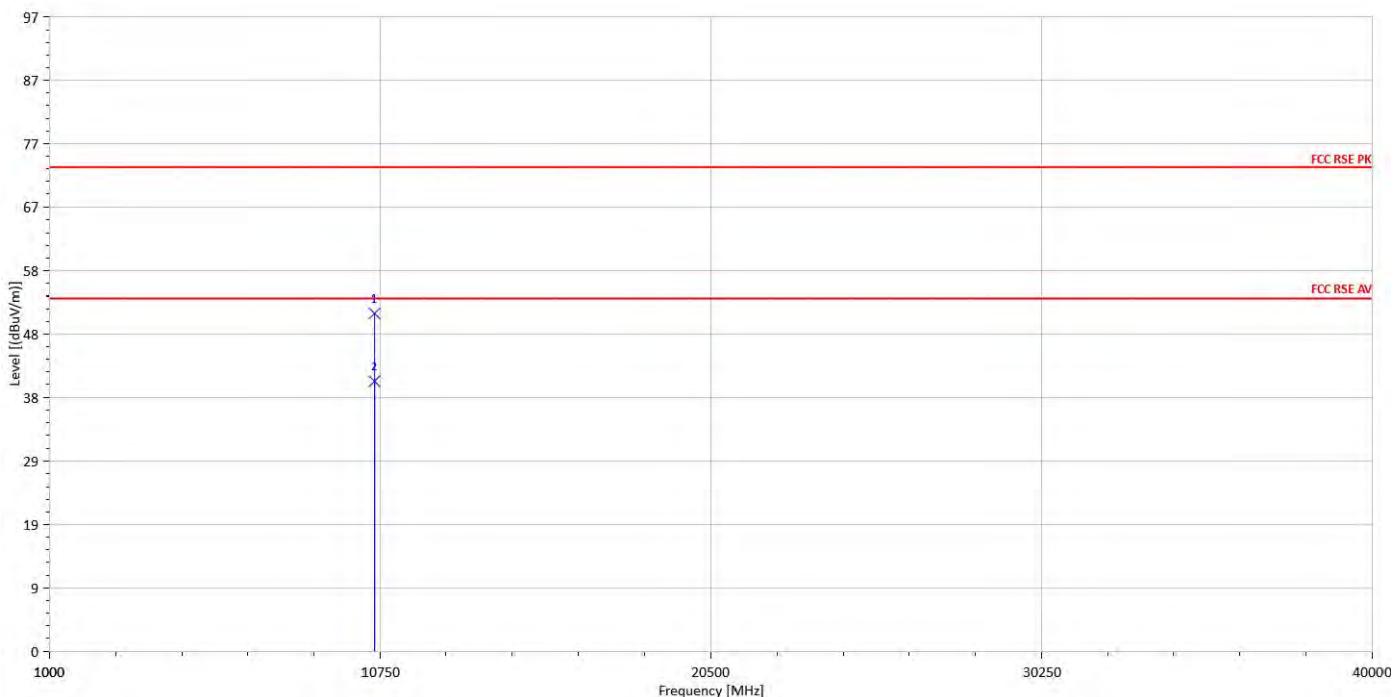
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10580.00	H	Peak	30.72	20.12	50.84	74	-23.16
10580.00	H	Average	21.11	20.12	41.23	54	-12.77

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Operation Mode : 802.11ac80 Test Date : 2016/7/5  
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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10580.00	H	Peak	31.58	20.12	51.70	74	-22.30
10580.00	H	Average	21.11	20.12	41.23	54	-12.77

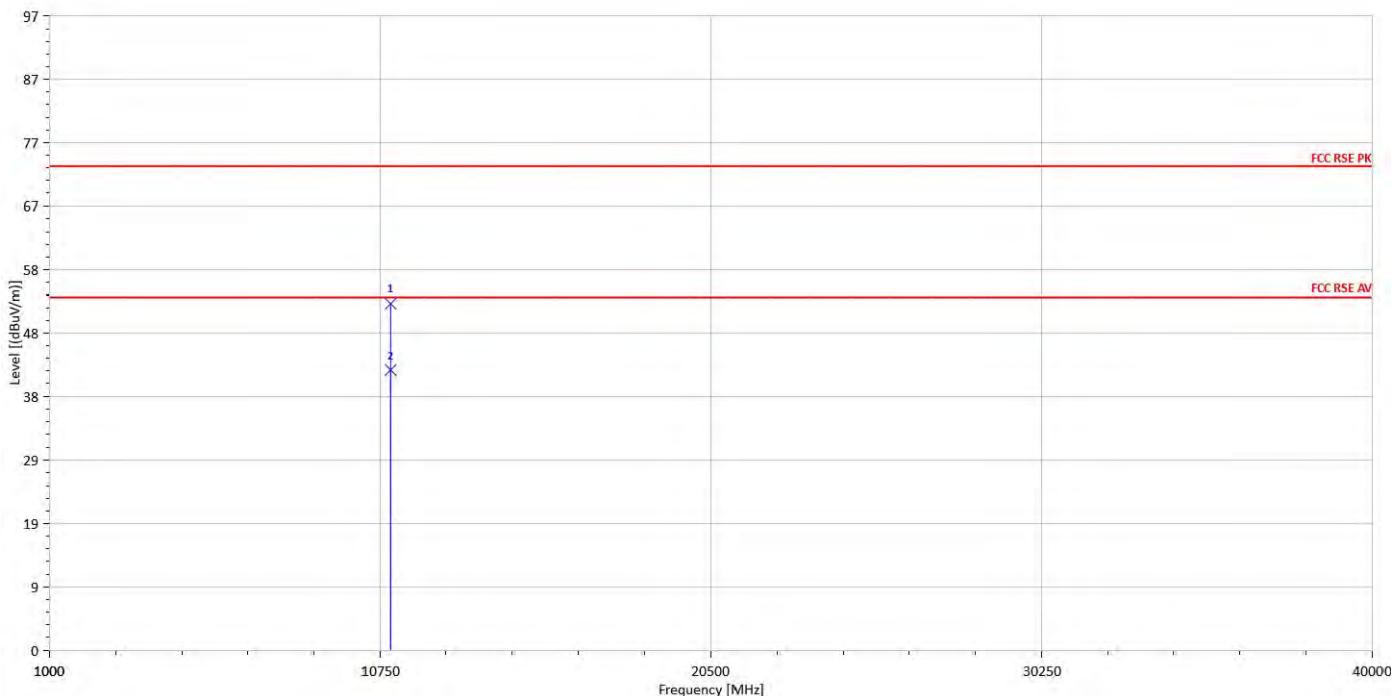
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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**Radiated Spurious Emission Measurement Result****802.11ac\_VHT80, 5470~5725 MHz**

Operation Mode : 802.11ac80      Test Date : 2016/7/5  
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



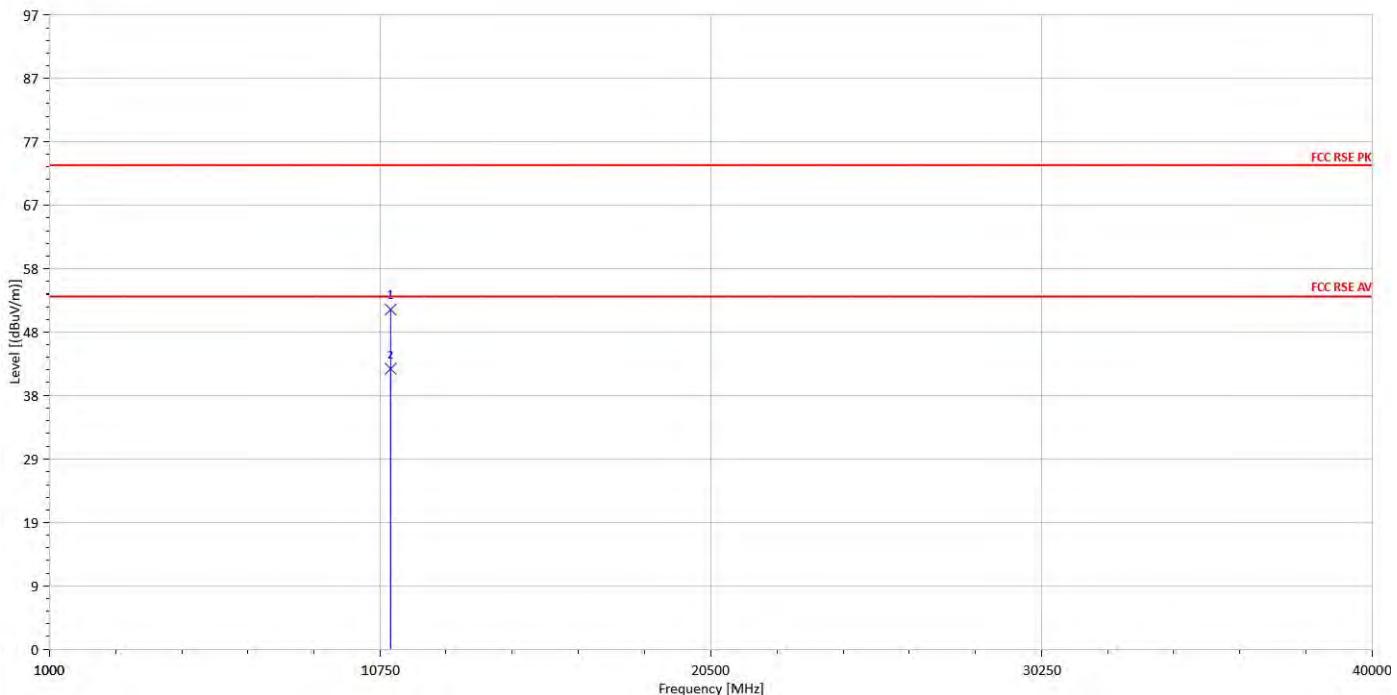
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11060.00	H	Peak	31.21	21.83	53.04	74	-20.96
11060.00	H	Average	20.99	21.83	42.82	54	-11.18

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

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Operation Mode : 802.11ac80 Test Date : 2016/7/5  
 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



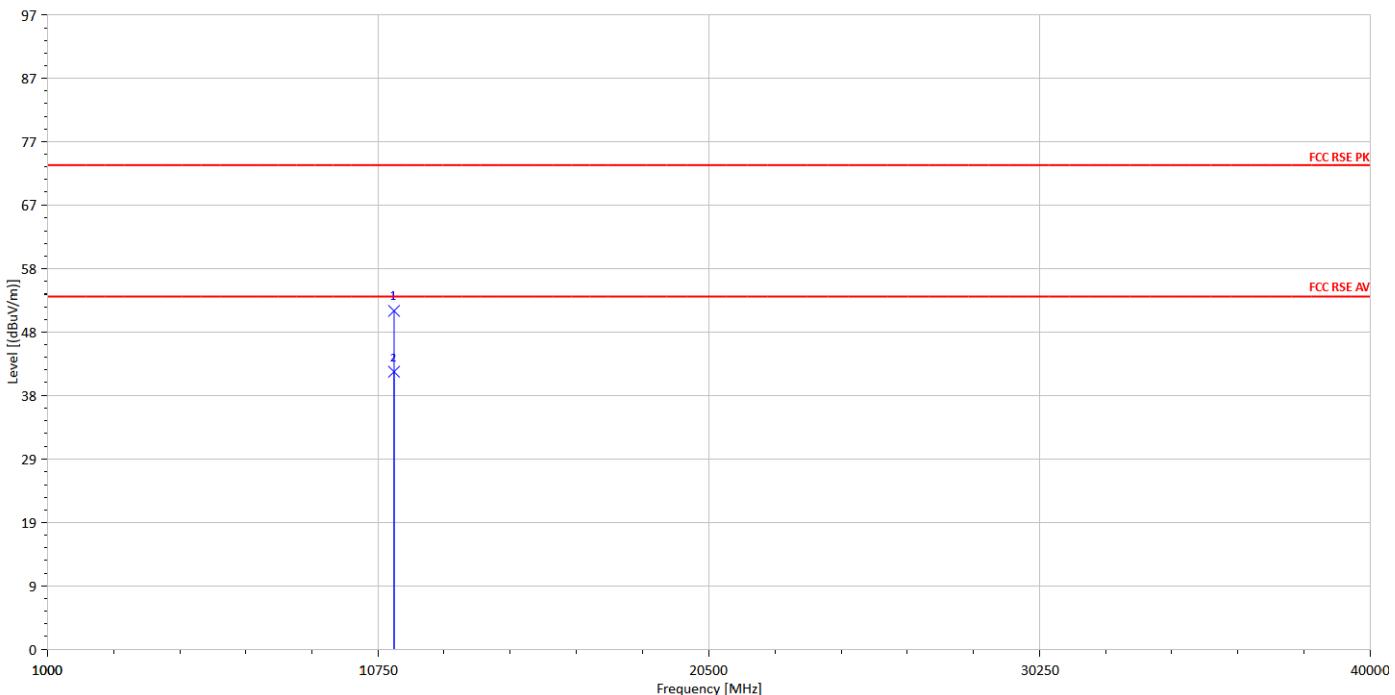
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dBµV	dB	dBµV/m	dBµV/m	dB
11060.00	H	Peak	30.16	21.83	52.00	74	-22.00
11060.00	H	Average	21.01	21.83	42.84	54	-11.16

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Operation Mode : 802.11ac80      Test Date : 2016/7/5  
 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



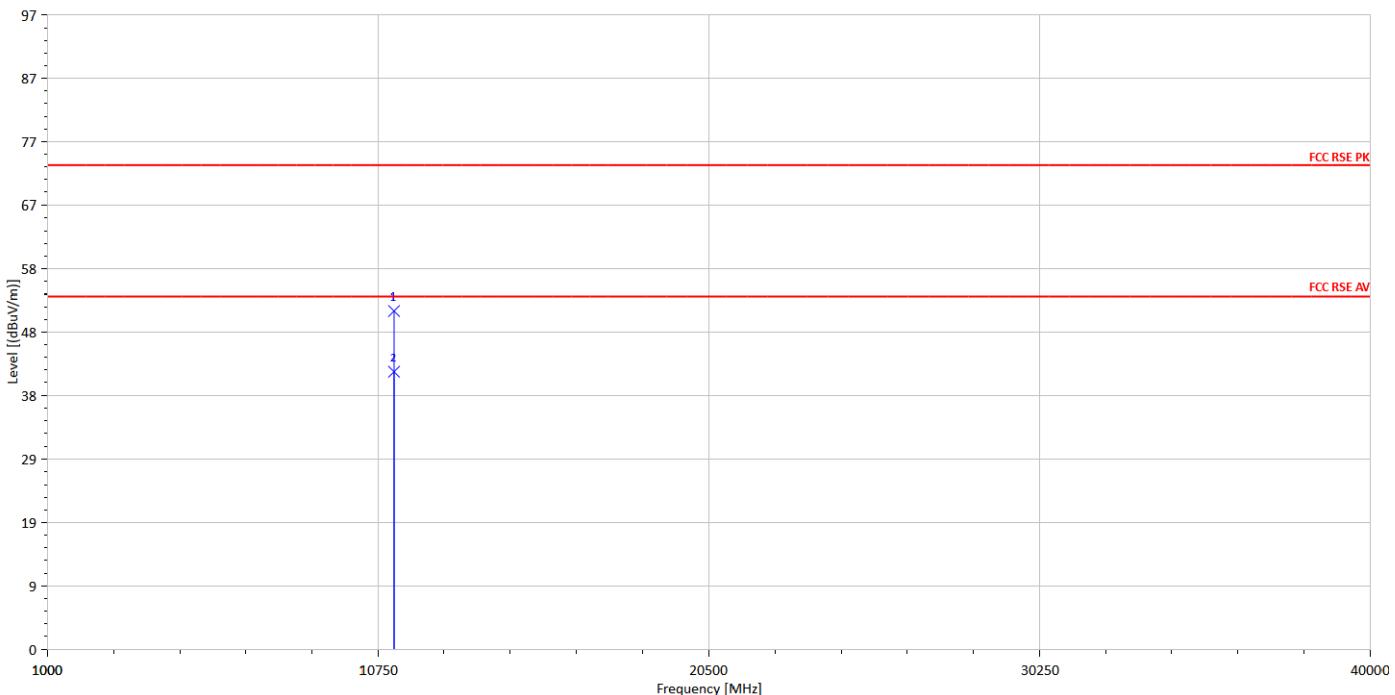
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11220.00	H	Peak	30.46	21.32	51.78	74	-22.22
11220.00	H	Average	21.08	21.32	42.40	54	-11.60

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Operation Mode : 802.11ac80      Test Date : 2016/7/5  
 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



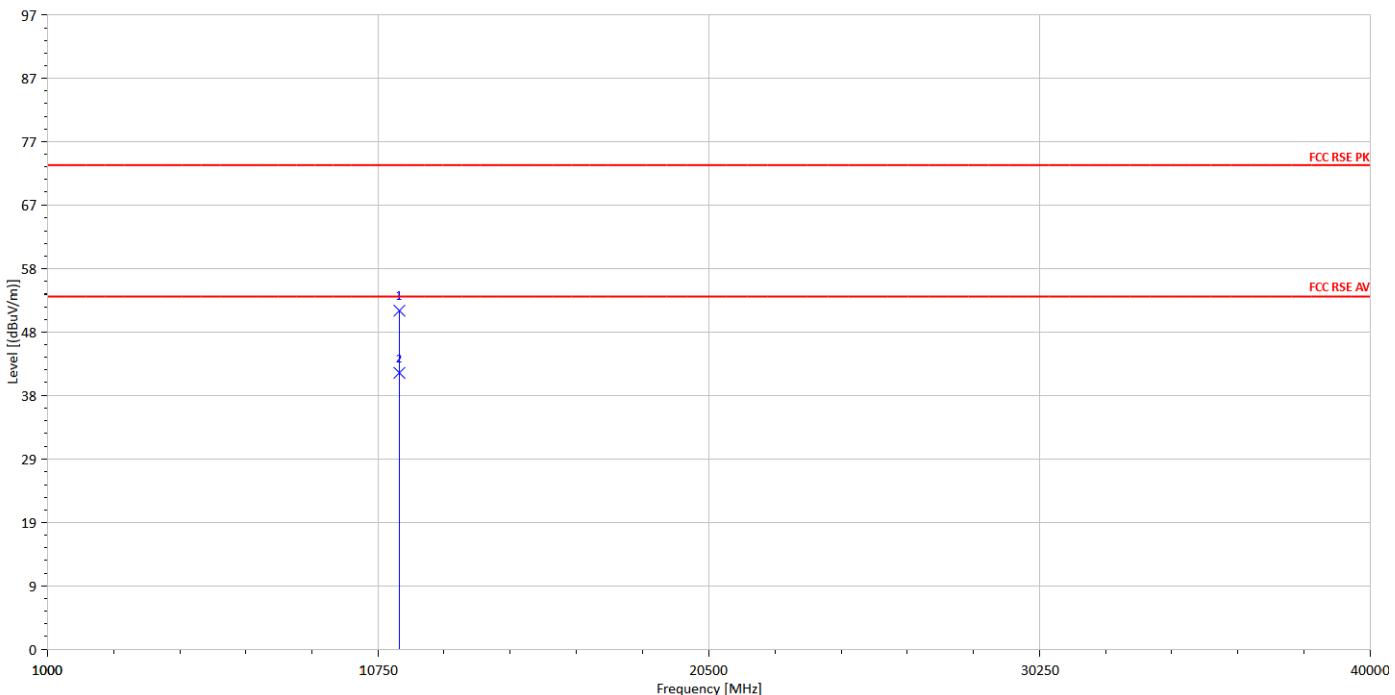
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11220.00	H	Peak	30.44	21.32	51.76	74	-22.24
11220.00	H	Average	21.08	21.32	42.40	54	-11.60

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Operation Mode : 802.11ac80 Test Date : 2016/7/5  
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



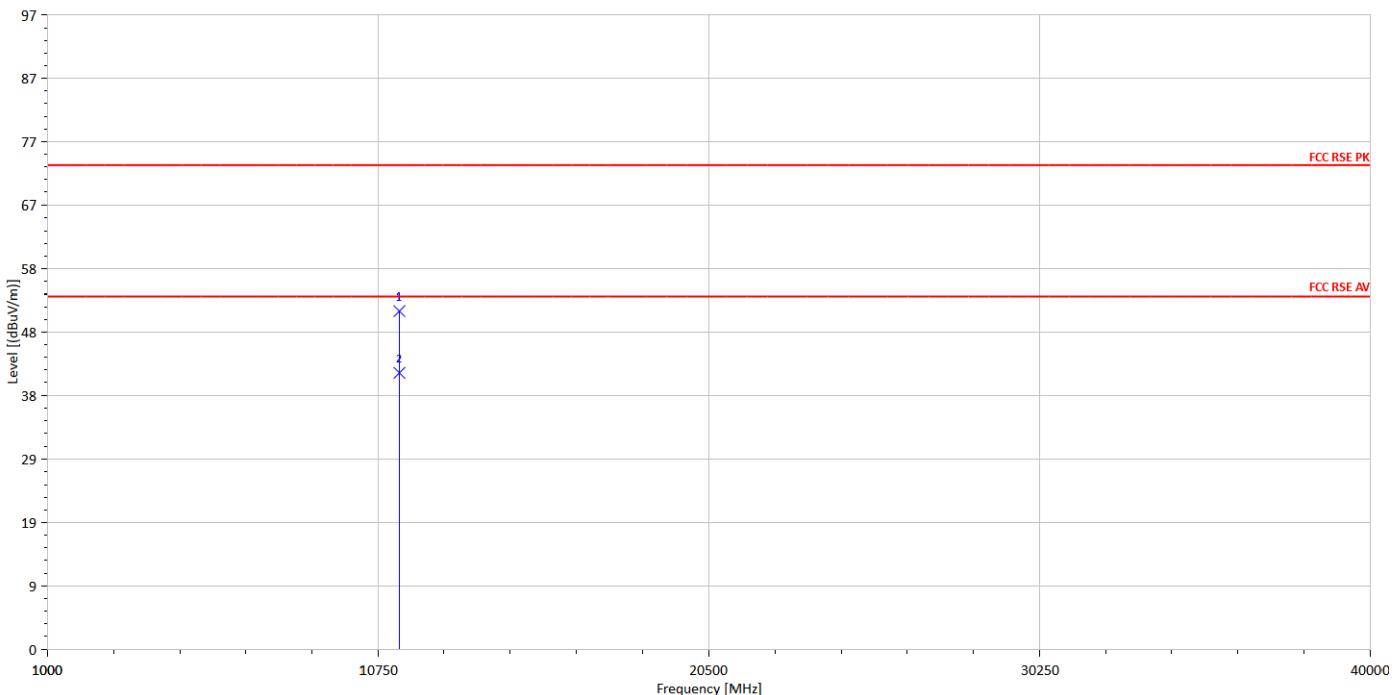
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11380.00	H	Peak	30.85	20.97	51.82	74	-22.18
11380.00	H	Average	21.25	20.97	42.22	54	-11.78

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Operation Mode : 802.11ac80 Test Date : 2016/7/5  
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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11380.00	H	Peak	30.79	20.97	51.75	74	-22.25
11380.00	H	Average	21.24	20.97	42.21	54	-11.79

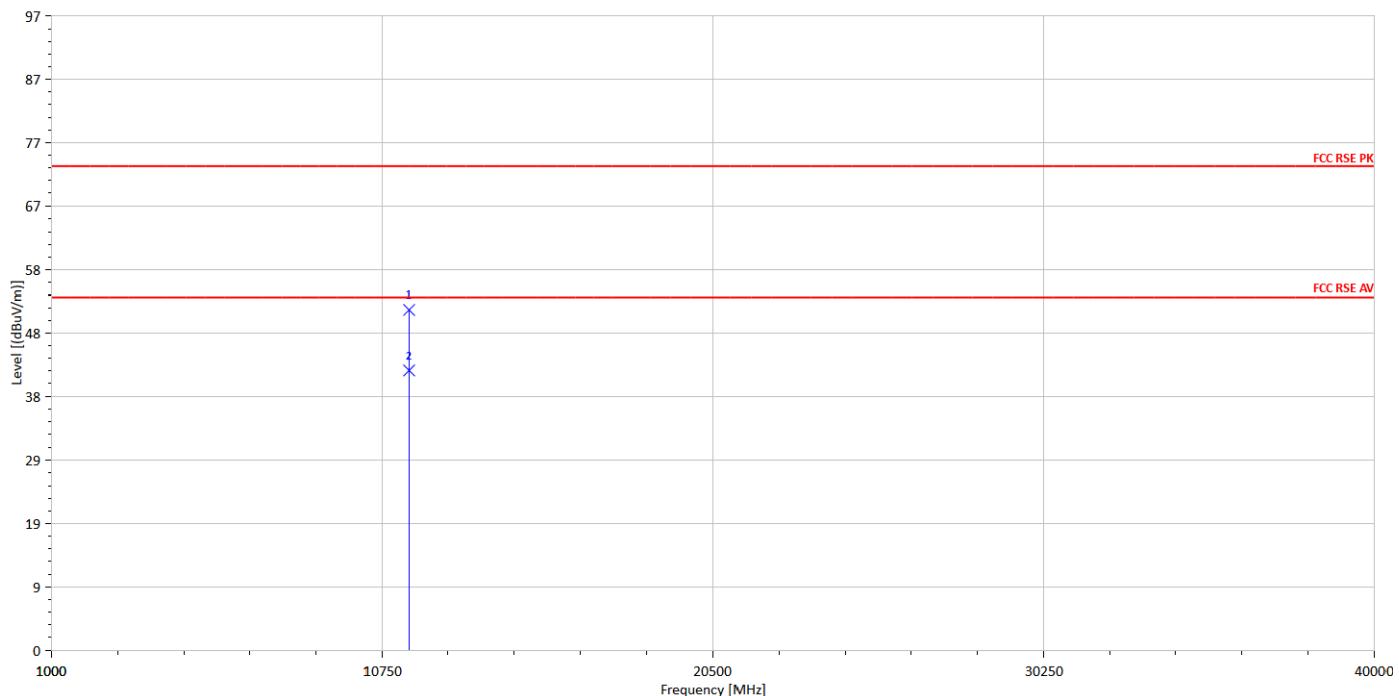
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**Radiated Spurious Emission Measurement Result****802.11ac\_VHT80, 5725~5850 MHz**

Operation Mode : 802.11ac80 Test Date : 2016/7/5  
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



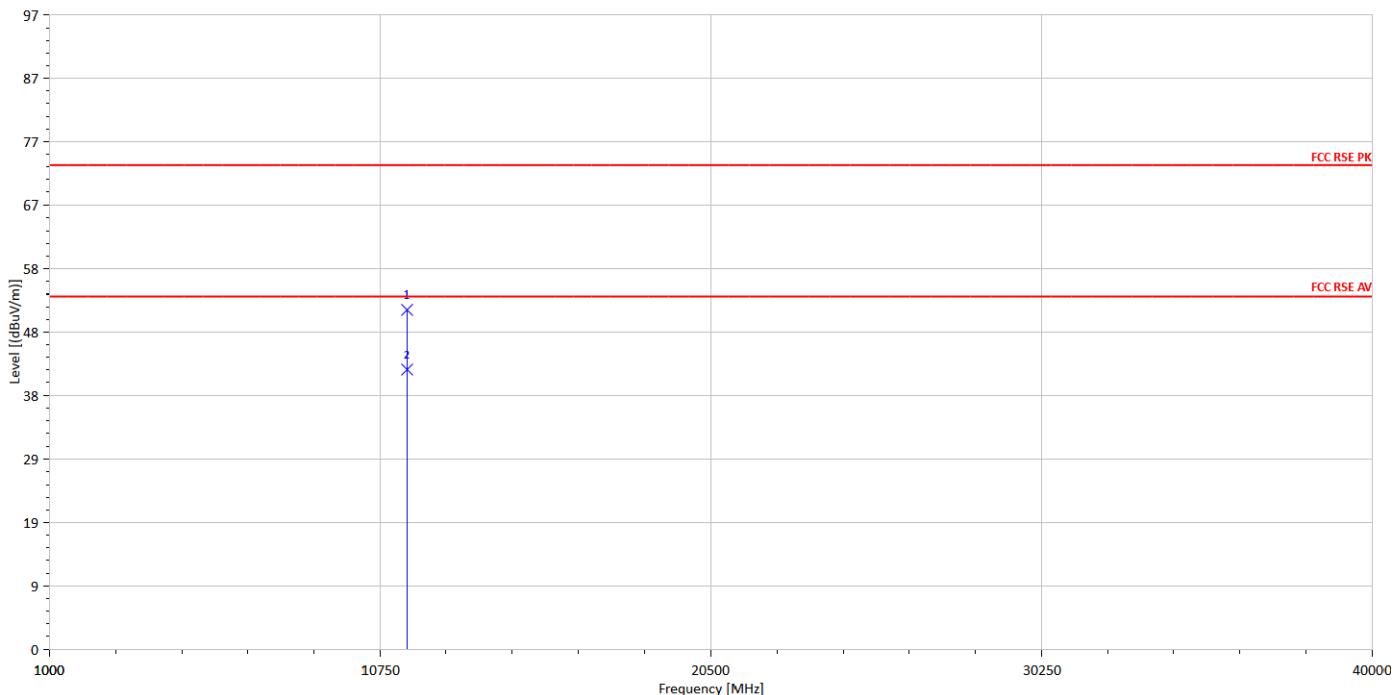
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
11550.00	H	Peak	30.68	21.41	52.09	74	-21.91
11550.00	H	Average	21.33	21.41	42.74	54	-11.26

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Operation Mode : 802.11ac80      Test Date : 2016/7/5  
 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.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11550.00	H	Peak	30.53	21.41	51.94	74	-22.06
11550.00	H	Average	21.31	21.41	42.72	54	-11.28

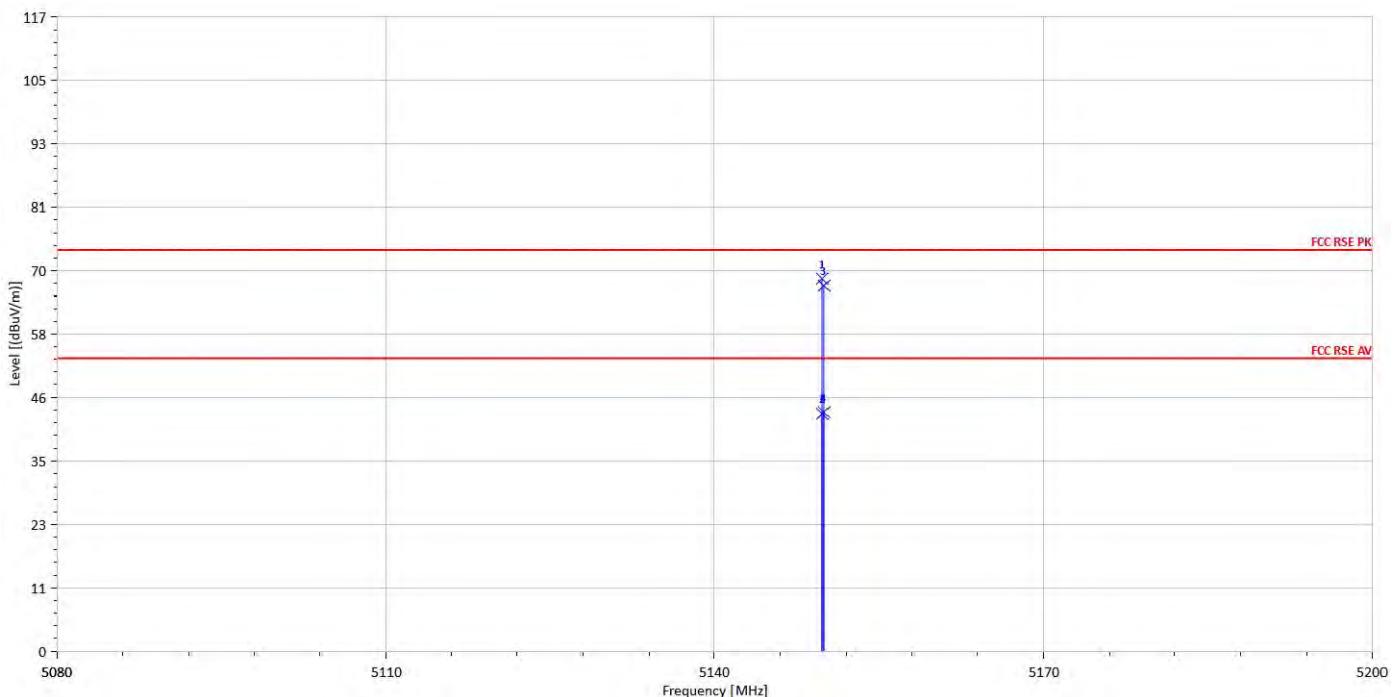
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**Band edge falling to restricted band****802.11a mode**

Operation Mode : 802.11a Test Date : 2016/7/5  
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low Test Engineer : Ashton  
 EUT Pol. : H Measurement Antenna Pol. : Vertical



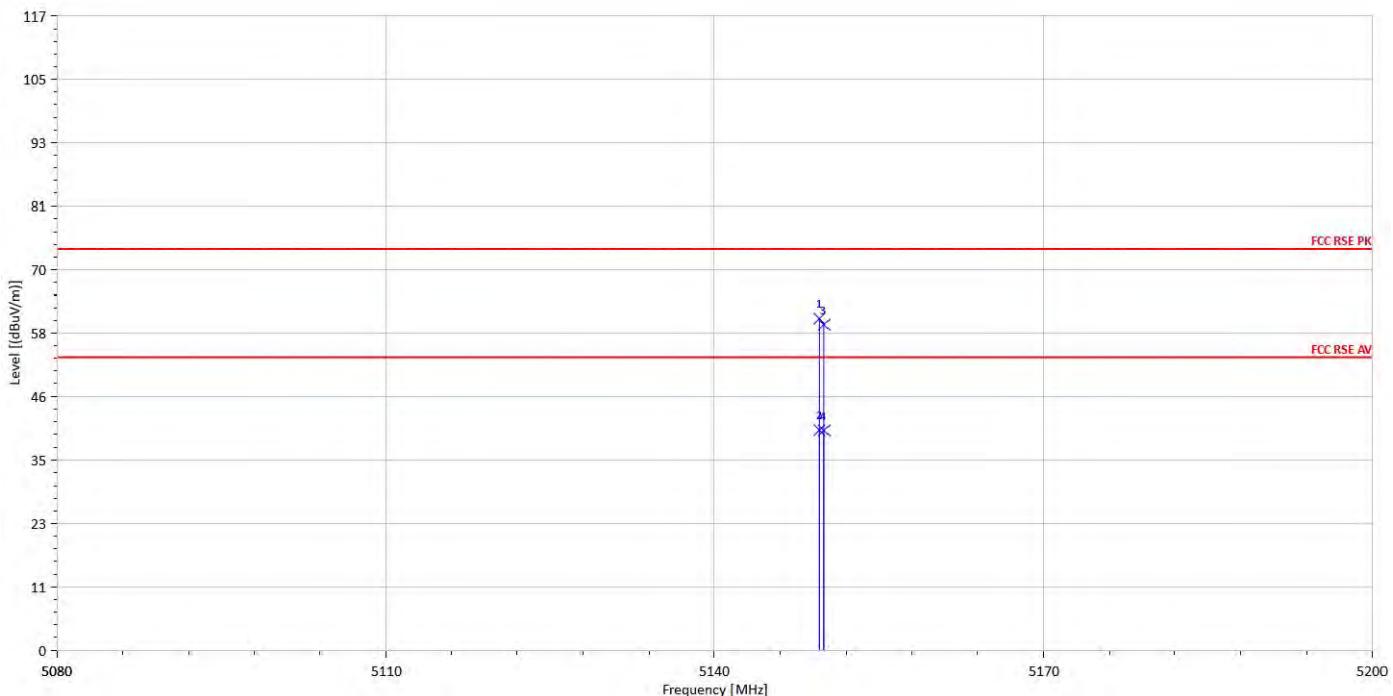
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5149.84	S	Peak	60.47	8.19	68.66	74	-5.34
5149.84	S	Average	35.66	8.19	43.85	54	-10.15
5150.00	E	Peak	59.18	8.19	67.37	74	-6.63
5150.00	E	Average	35.95	8.19	44.14	54	-9.86

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Operation Mode : 802.11a      Test Date : 2016/7/5  
 Fundamental Frequency : 5180 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low      Test Engineer : Ashton  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



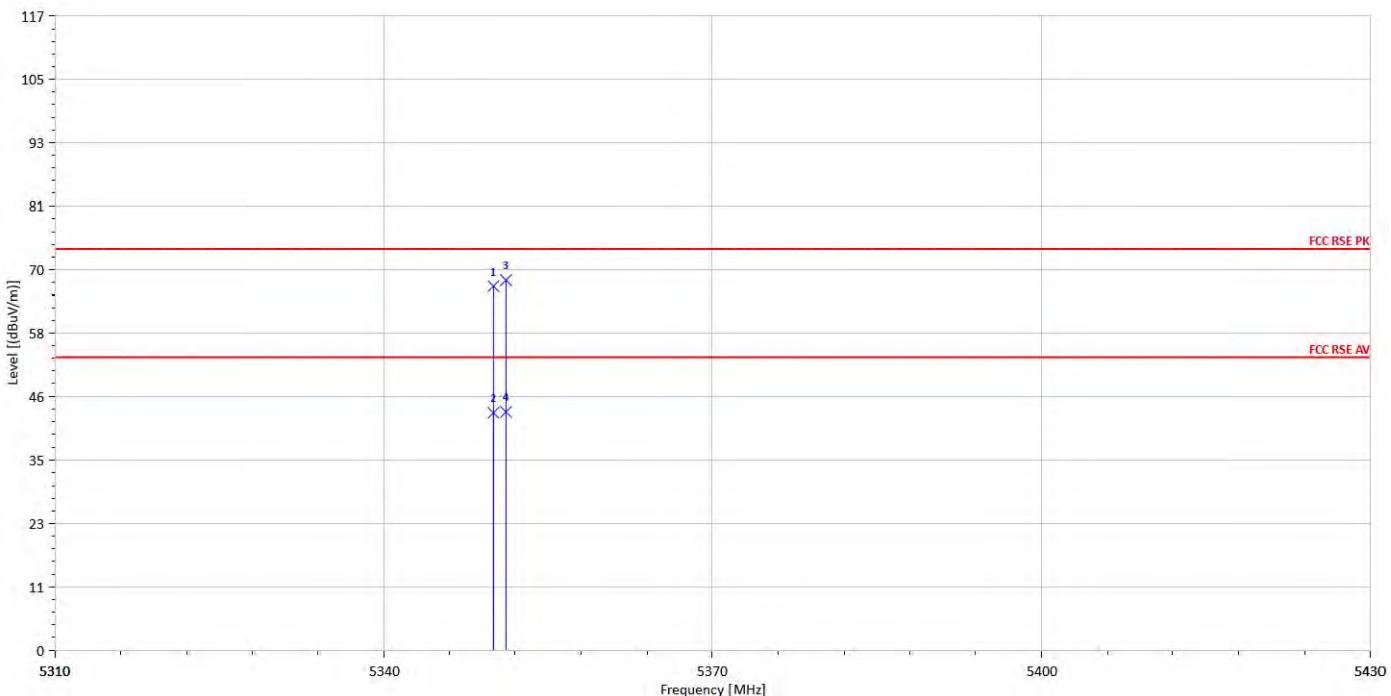
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5149.60	S	Peak	53.00	8.19	61.19	74	-12.81
5149.60	S	Average	32.43	8.19	40.62	54	-13.38
5150.00	E	Peak	51.91	8.19	60.10	74	-13.90
5150.00	E	Average	32.37	8.19	40.56	54	-13.44

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Operation Mode : 802.11a Test Date : 2016/7/5  
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Ashton  
EUT Pol. : H Measurement Antenna Pol. : Vertical



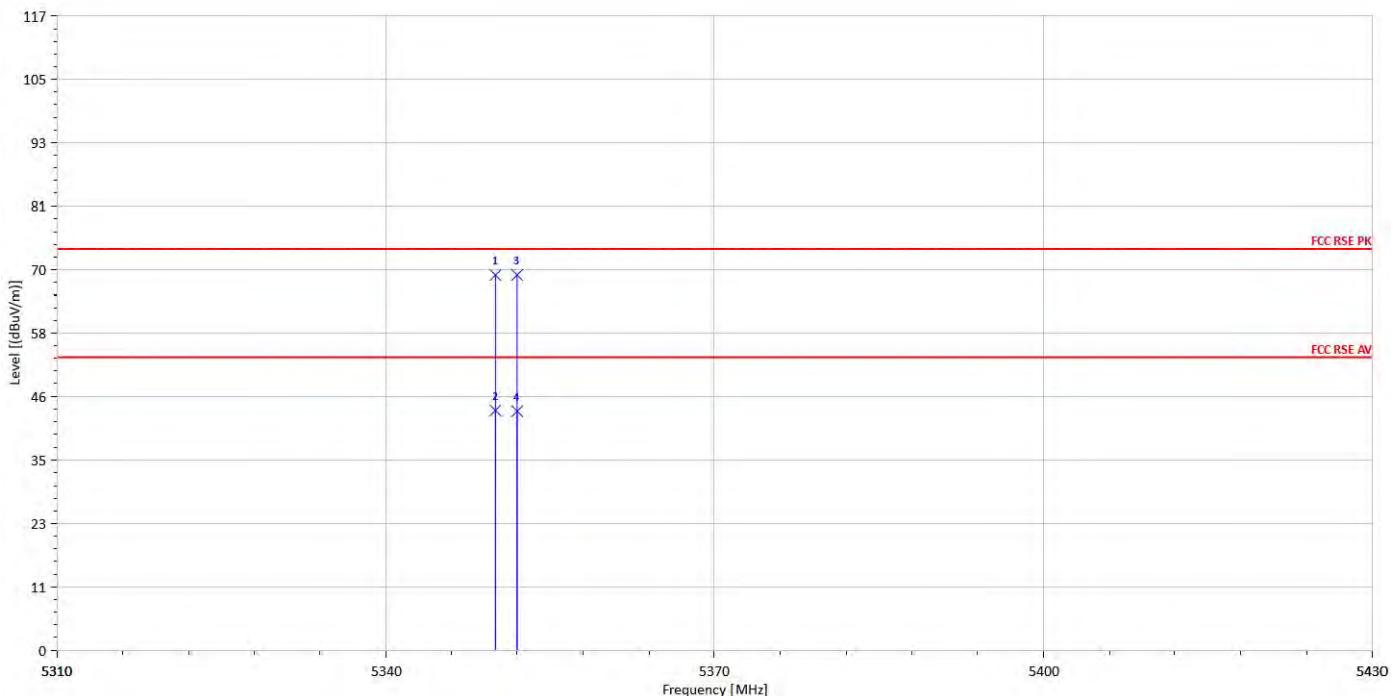
Freq. MHz	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
		PK/QP/AV	Level dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5350.00	S	Peak	58.12	8.96	67.09	74	-6.91
5350.00	S	Average	34.88	8.96	43.84	54	-10.16
5351.16	E	Peak	59.23	8.98	68.21	74	-5.79
5351.16	E	Average	35.03	8.98	44.01	54	-9.99

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Operation Mode : 802.11a Test Date : 2016/7/5  
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Ashton  
EUT Pol. : H Measurement Antenna Pol. : Horizontal



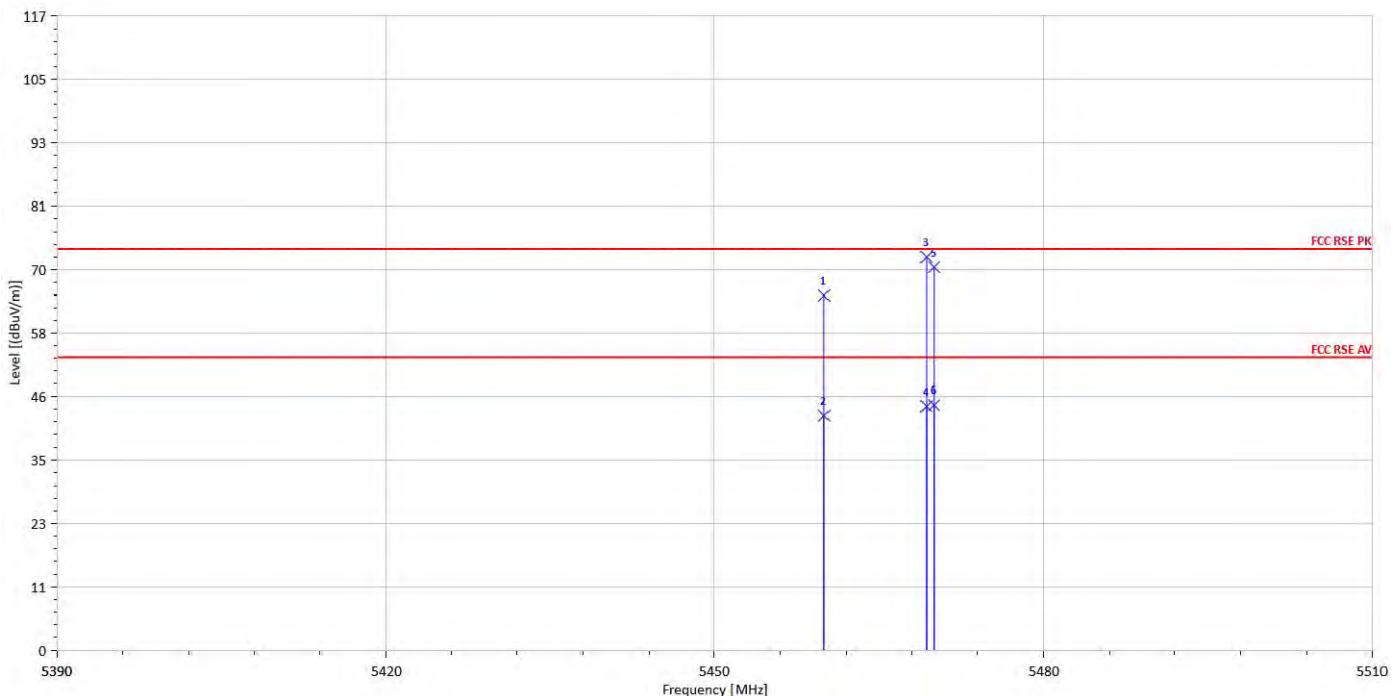
Freq. MHz	Note	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	E	Peak	60.18	8.96	69.14	74	-4.86
5350.00	E	Average	35.32	8.96	44.28	54	-9.72
5352.00	S	Peak	60.17	9.00	69.16	74	-4.84
5352.00	S	Average	35.14	9.00	44.14	54	-9.86

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Operation Mode : 802.11a      Test Date : 2016/7/5  
 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 dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading	Level				
5460.00	E	Peak	56.55		8.88	65.43	74	-8.57
5460.00	E	Average	34.43		8.88	43.31	54	-10.69
5469.32	S	Peak	63.71		8.79	72.50	74	-1.50
5469.32	S	Average	36.25		8.79	45.04	54	-8.96
5470.00	E	Peak	61.85		8.79	70.64	74	-3.36
5470.00	E	Average	36.48		8.79	45.27	54	-8.73

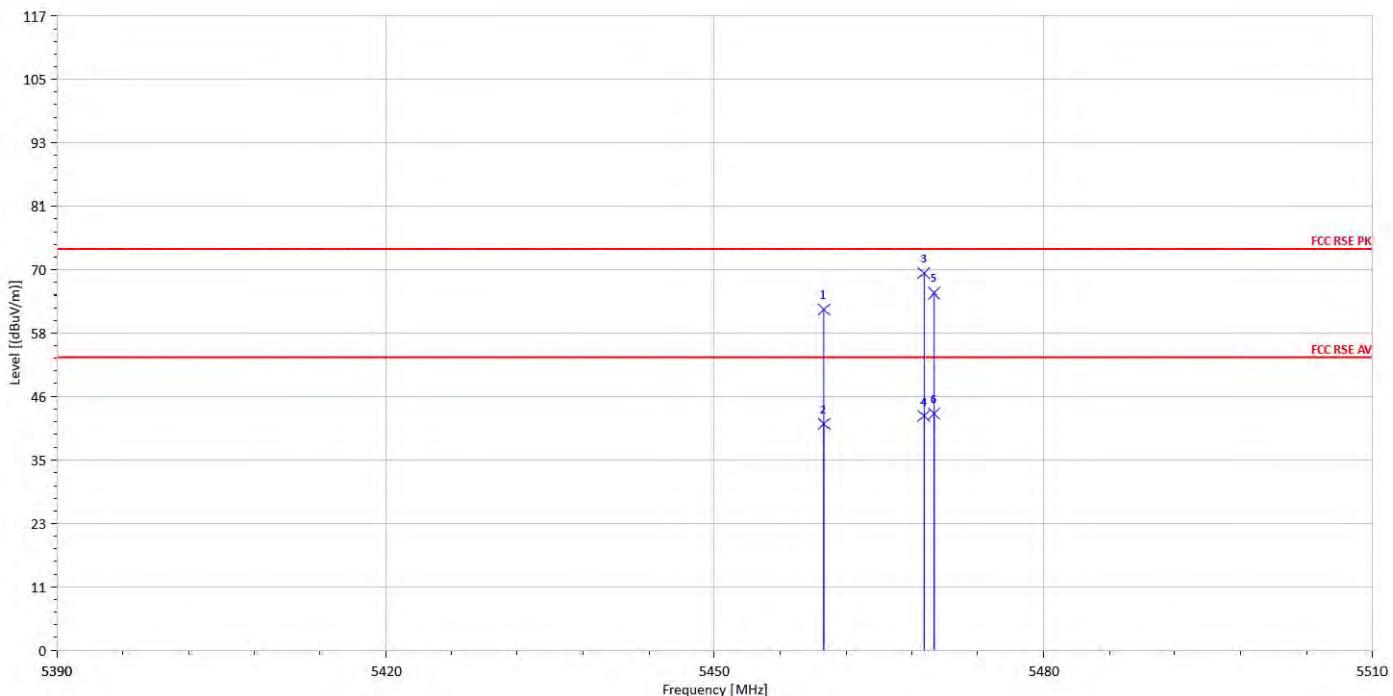
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Operation Mode : 802.11a      Test Date : 2016/7/5  
 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low      Test Engineer : Pony  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



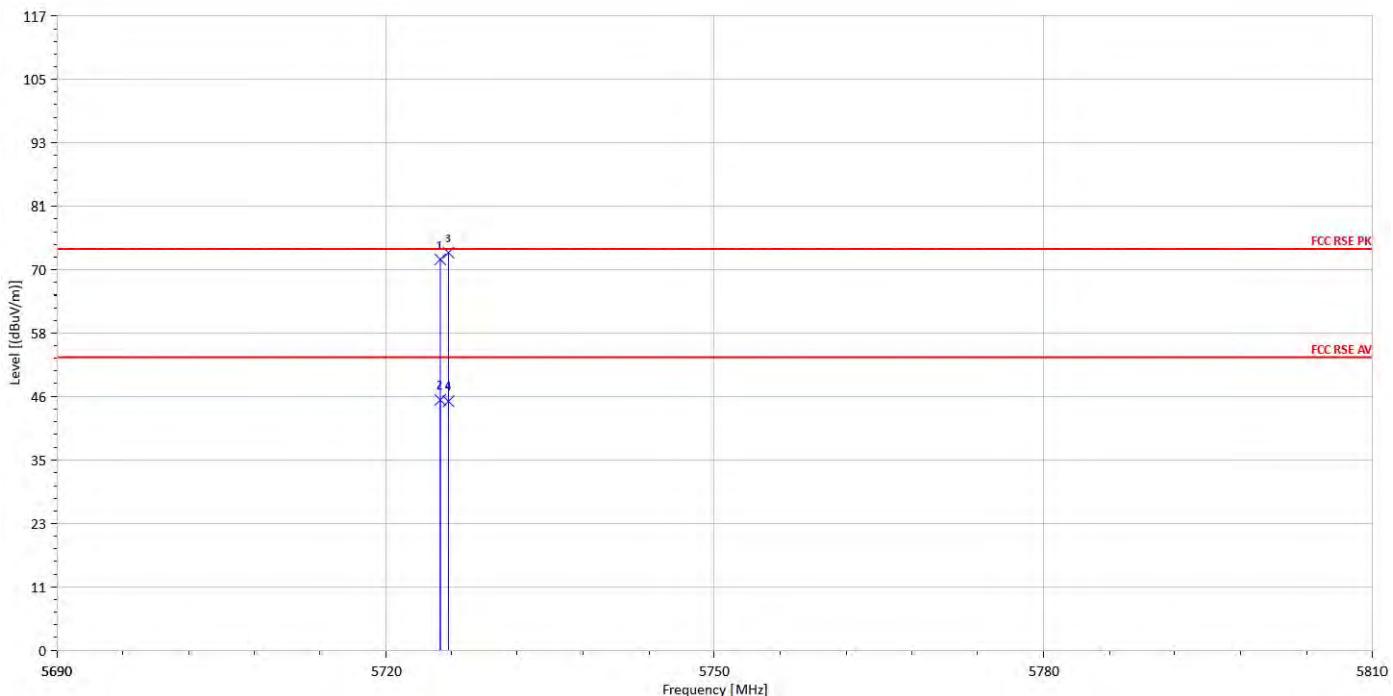
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
			Reading	Level dBµV				
5460.00	E	Peak	54.02	8.88	62.90	74	-11.10	
5460.00	E	Average	32.91	8.88	41.79	54	-12.21	
5469.08	S	Peak	60.72	8.80	69.51	74	-4.49	
5469.08	S	Average	34.47	8.80	43.27	54	-10.73	
5470.00	E	Peak	57.07	8.79	65.86	74	-8.14	
5470.00	E	Average	34.91	8.79	43.70	54	-10.30	

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Operation Mode : 802.11a      Test Date : 2016/7/5  
 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



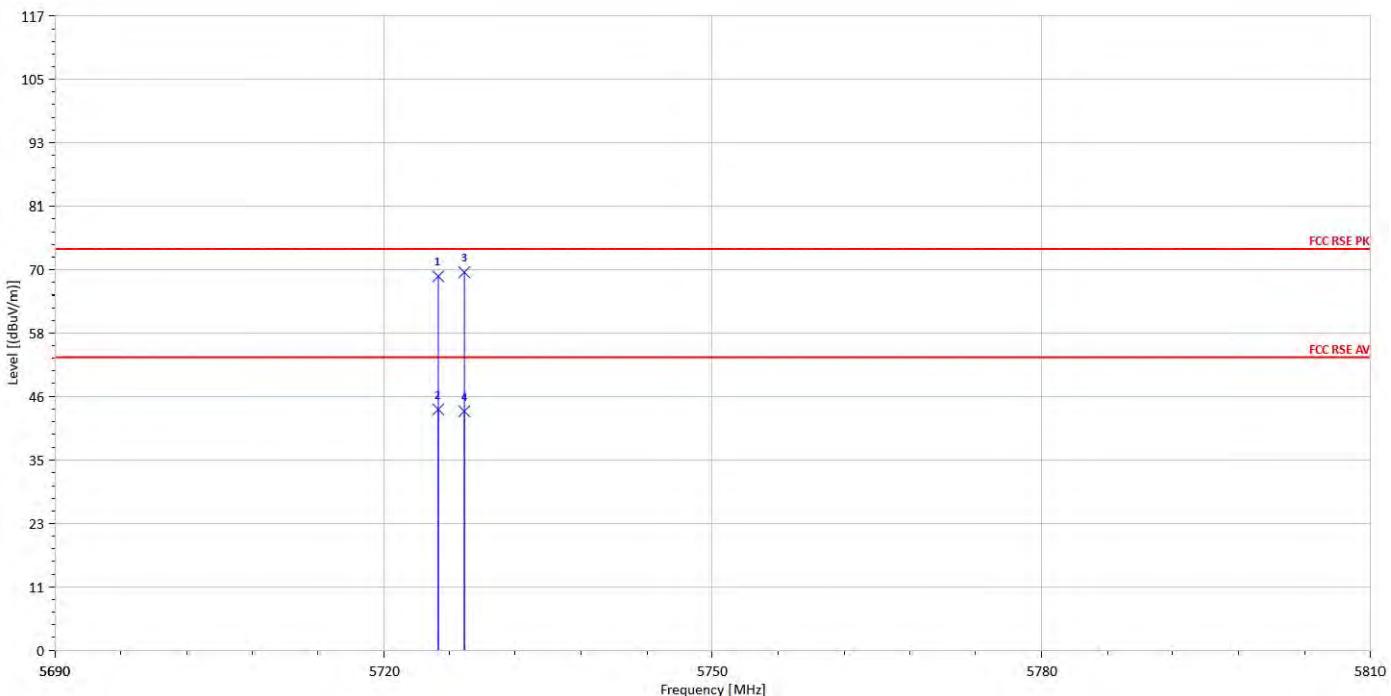
Freq. MHz	Note	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	E	Peak	62.77	9.30	72.07	74	-1.93
5725.00	E	Average	36.94	9.30	46.24	54	-7.76
5725.76	S	Peak	64.02	9.30	73.32	74	-0.68
5725.76	S	Average	36.69	9.30	45.99	54	-8.01

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Operation Mode : 802.11a      Test Date : 2016/7/5  
 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



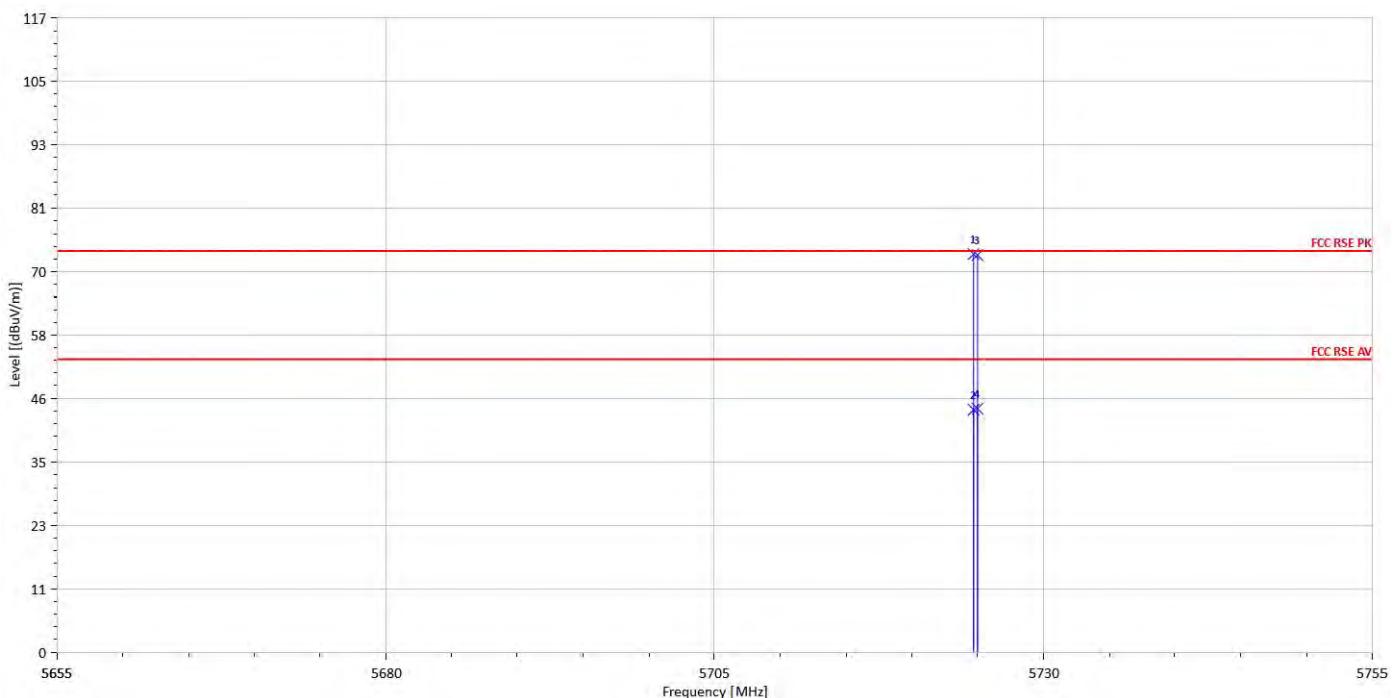
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	E	Peak	59.61	9.30	68.91	74	-5.09
5725.00	E	Average	35.18	9.30	44.48	54	-9.52
5727.32	S	Peak	60.37	9.30	69.67	74	-4.33
5727.32	S	Average	34.84	9.30	44.14	54	-9.86

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Operation Mode : 802.11a      Test Date : 2016/7/5  
 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



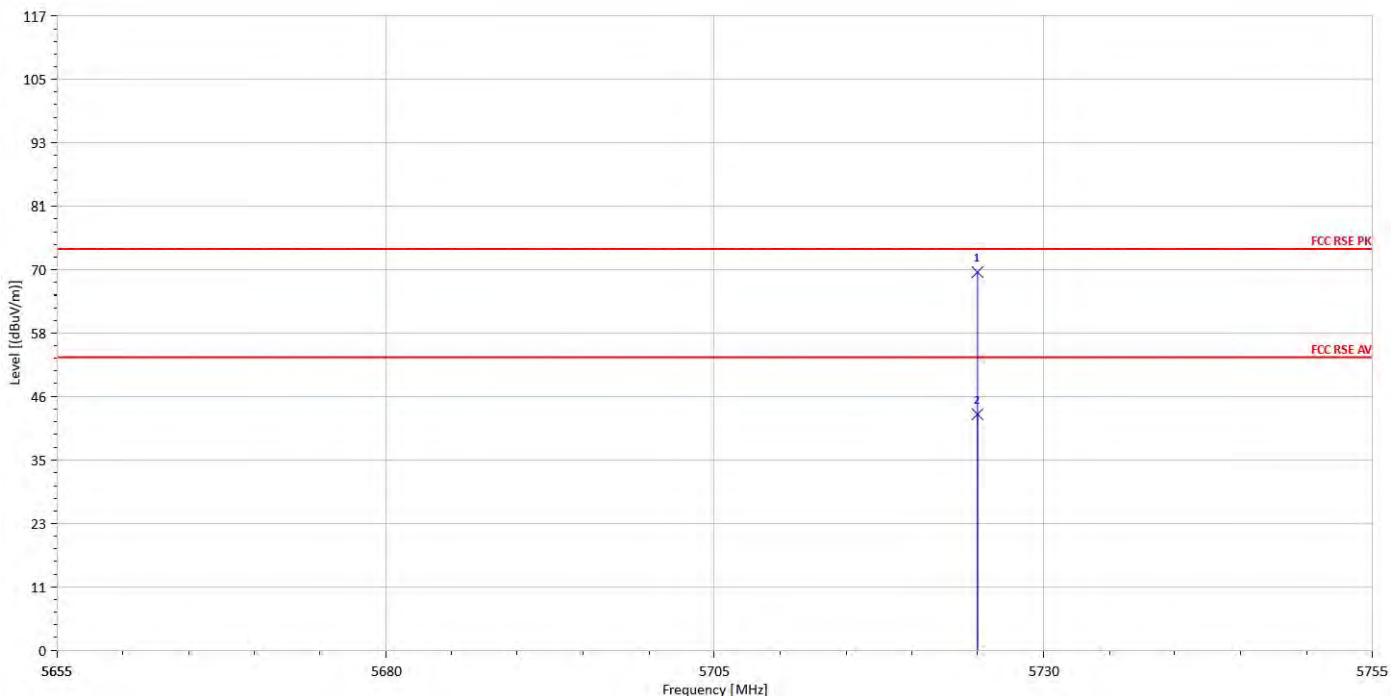
Freq. MHz	Note	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5724.70	S	Peak	64.12	9.30	73.42	74	-0.58
5724.70	S	Average	35.48	9.30	44.78	54	-9.22
5725.00	E	Peak	63.95	9.30	73.25	74	-0.75
5725.00	E	Average	35.70	9.30	45.00	54	-9.00

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Operation Mode : 802.11a Test Date : 2016/7/5  
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



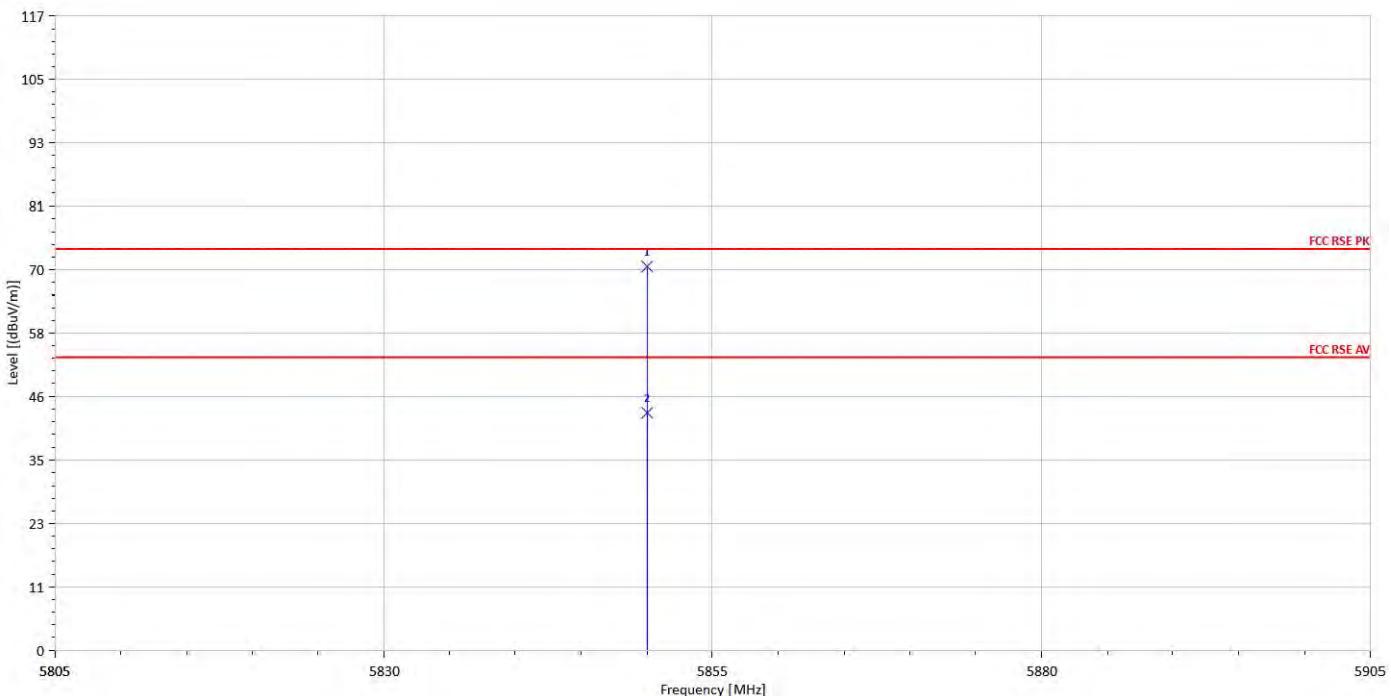
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5725.00	E	Peak	60.39	9.30	69.69	74	-4.31
5725.00	E	Average	34.28	9.30	43.58	54	-10.42

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Operation Mode : 802.11a      Test Date : 2016/7/5  
 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



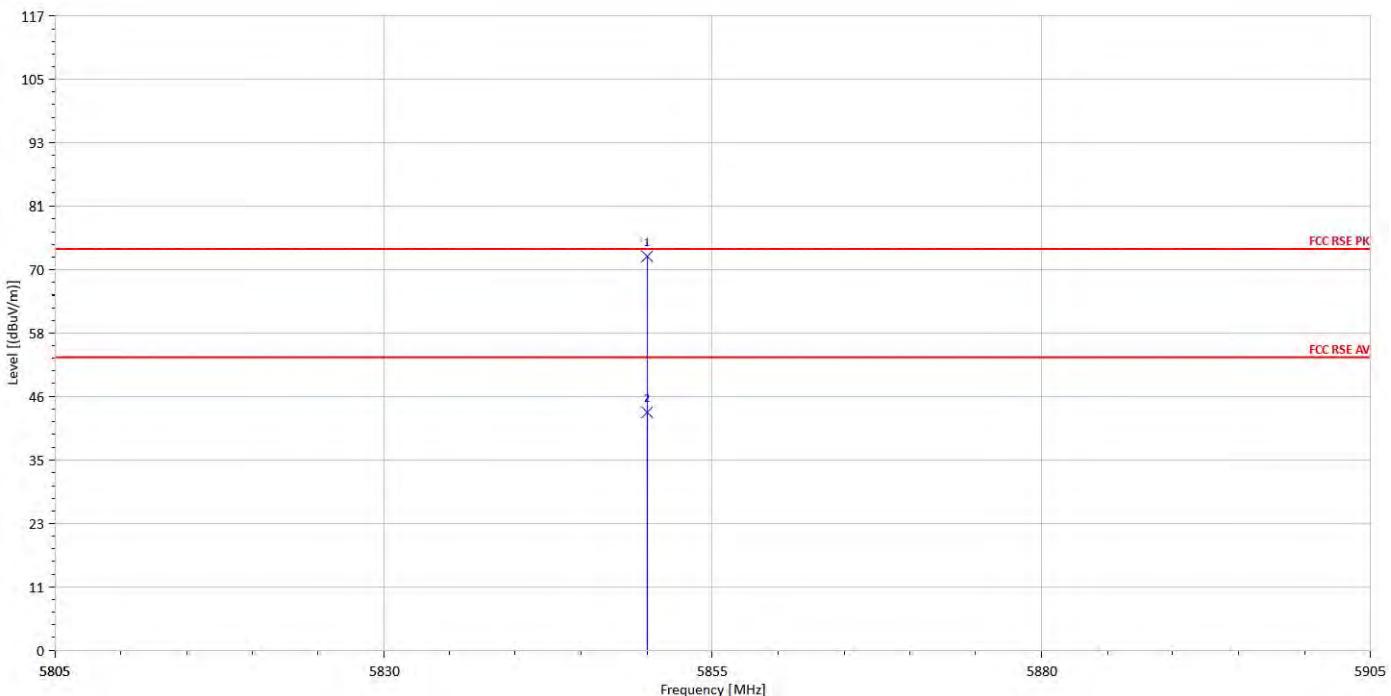
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	61.26	9.49	70.75	74	-3.25
5850.00	E	Average	34.36	9.49	43.85	54	-10.15

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Operation Mode : 802.11a      Test Date : 2016/7/5  
 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 $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	63.15	9.49	72.64	74	-1.36
5850.00	E	Average	34.45	9.49	43.94	54	-10.06

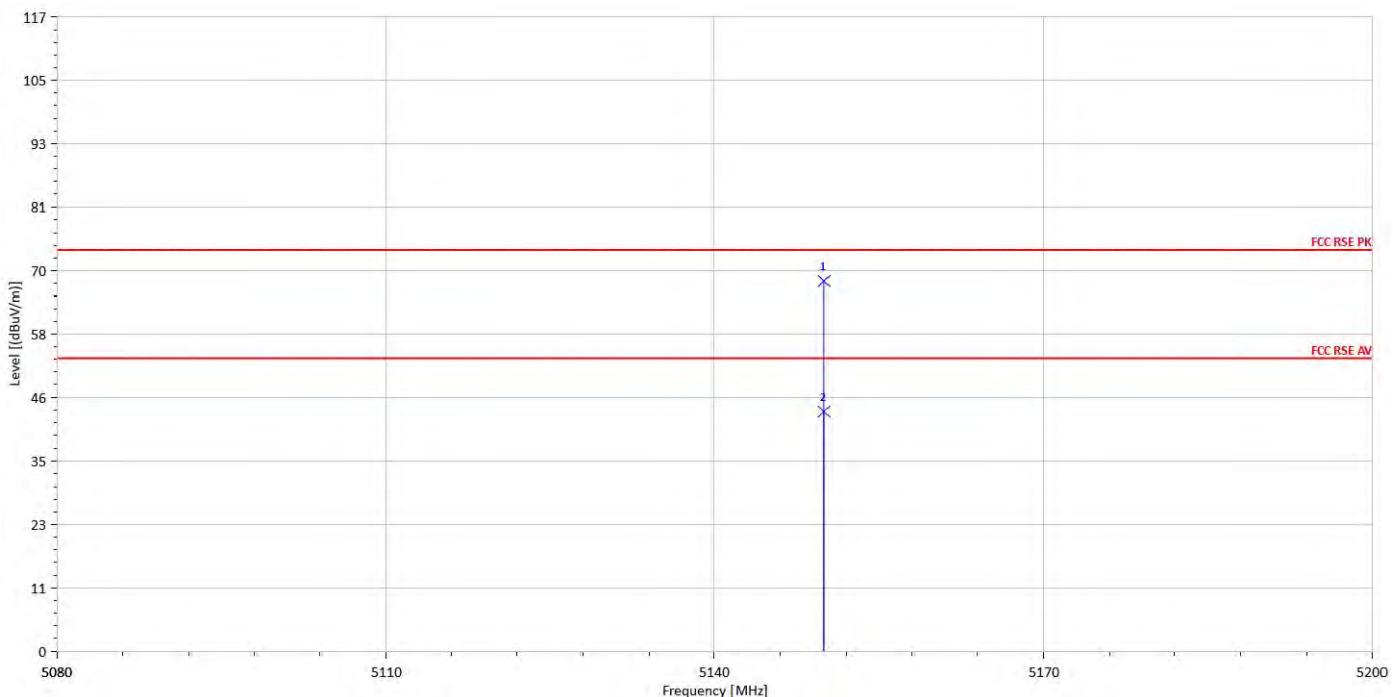
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**Band edge falling to restricted band****802.11ac\_VHT20 mode**

Operation Mode : 802.11ac20 Test Date : 2016/7/1  
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Ashton  
EUT Pol. : H Measurement Antenna Pol. : Vertical



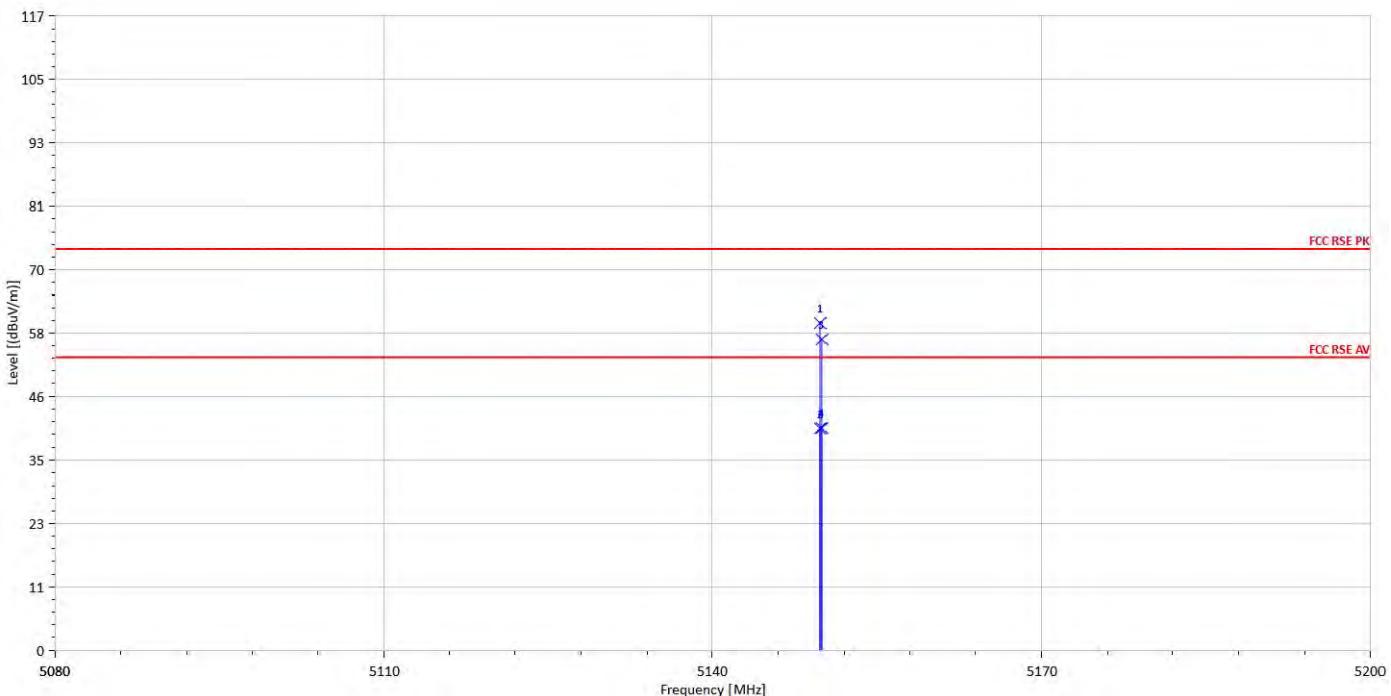
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	E	Peak	60.03	8.19	68.22	74	-5.78
5150.00	E	Average	36.07	8.19	44.26	54	-9.74

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Operation Mode : 802.11ac20      Test Date : 2016/7/1  
 Fundamental Frequency : 5180 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low      Test Engineer : Ashton  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



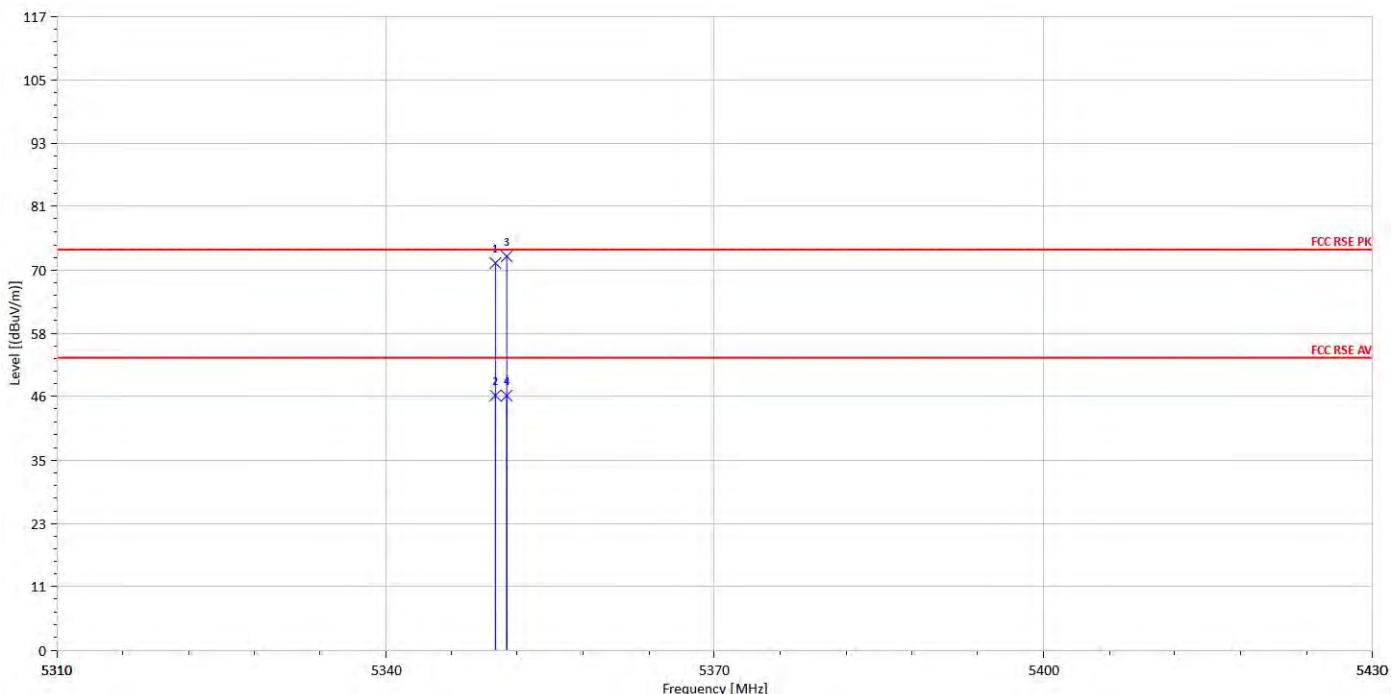
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5149.84	S	Peak	52.17	8.19	60.36	74	-13.64
5149.84	S	Average	32.75	8.19	40.94	54	-13.06
5150.00	E	Peak	49.14	8.19	57.34	74	-16.66
5150.00	E	Average	32.81	8.19	41.00	54	-13.00

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Operation Mode : 802.11ac20      Test Date : 2016/7/1  
Fundamental Frequency : 5320 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High      Test Engineer : Ashton  
EUT Pol. : H      Measurement Antenna Pol. : Vertical



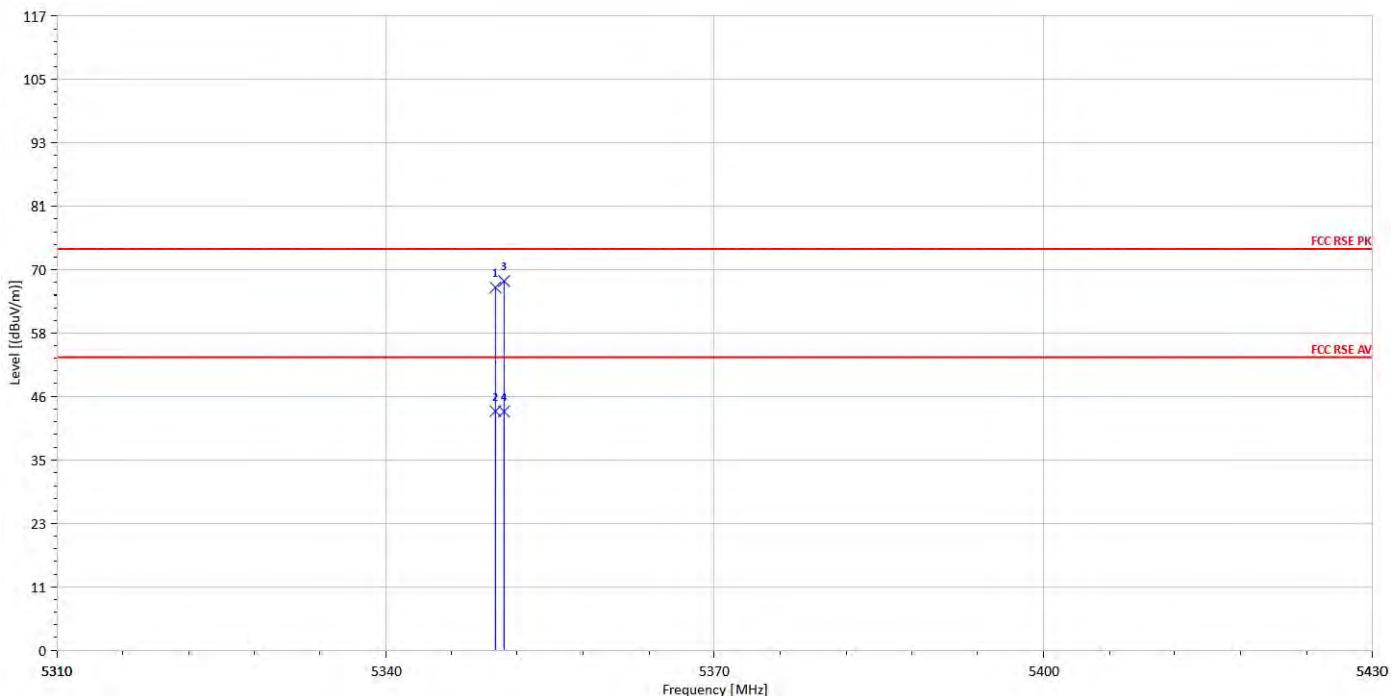
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	E	Peak	62.53	8.96	71.49	74	-2.51
5350.00	E	Average	38.01	8.96	46.97	54	-7.03
5351.04	S	Peak	63.77	8.98	72.75	74	-1.25
5351.04	S	Average	37.96	8.98	46.94	54	-7.06

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Operation Mode : 802.11ac20      Test Date : 2016/7/1  
Fundamental Frequency : 5320 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High      Test Engineer : Ashton  
EUT Pol. : H      Measurement Antenna Pol. : Horizontal



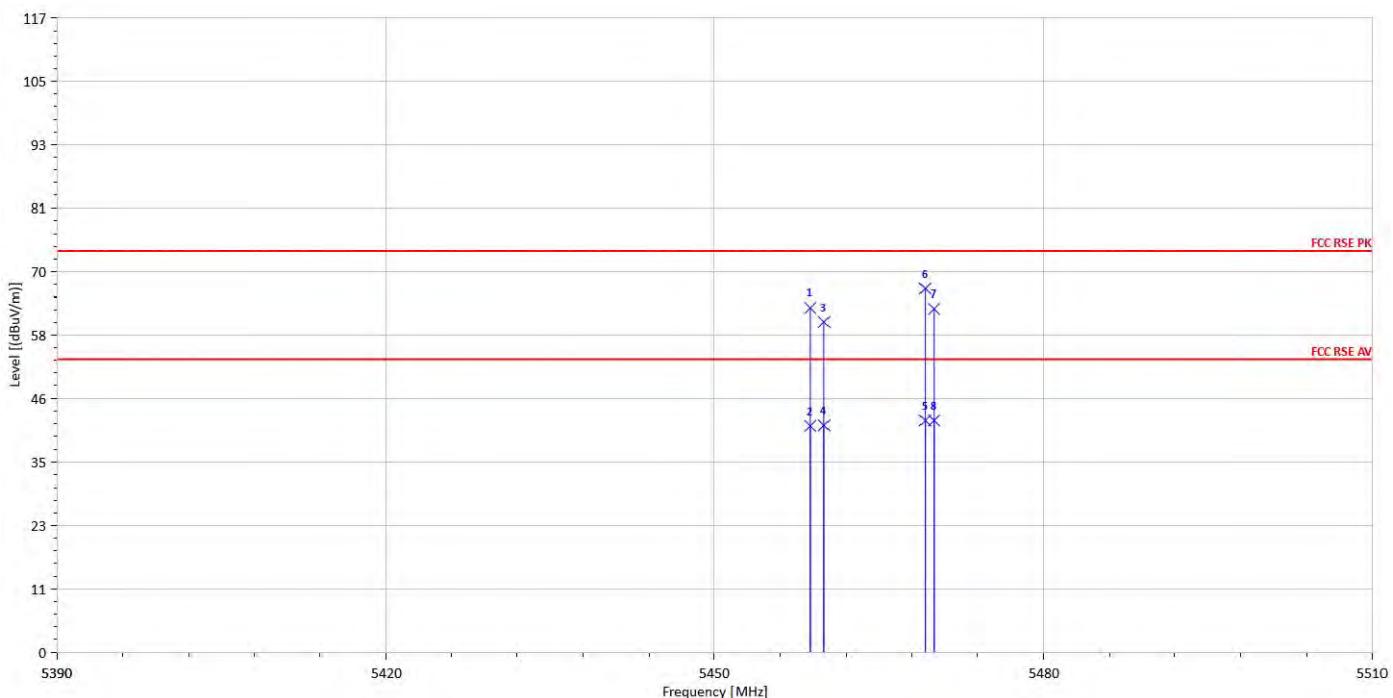
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	E	Peak	57.87	8.96	66.83	74	-7.17
5350.00	E	Average	35.20	8.96	44.16	54	-9.84
5350.80	S	Peak	59.04	8.98	68.02	74	-5.98
5350.80	S	Average	35.12	8.98	44.10	54	-9.90

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Operation Mode : 802.11ac20      Test Date : 2016/7/5  
 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				
5458.76	S	Peak	54.66	8.89	63.56	74	-10.44	
5458.76	S	Average	32.89	8.89	41.78	54	-12.22	
5460.00	E	Peak	52.08	8.88	60.96	74	-13.04	
5460.00	E	Average	33.00	8.88	41.88	54	-12.12	
5469.20	S	Average	34.00	8.80	42.80	54	-11.20	
5469.20	S	Peak	58.23	8.80	67.02	74	-6.98	
5470.00	E	Peak	54.60	8.79	63.39	74	-10.61	
5470.00	E	Average	34.00	8.79	42.79	54	-11.21	

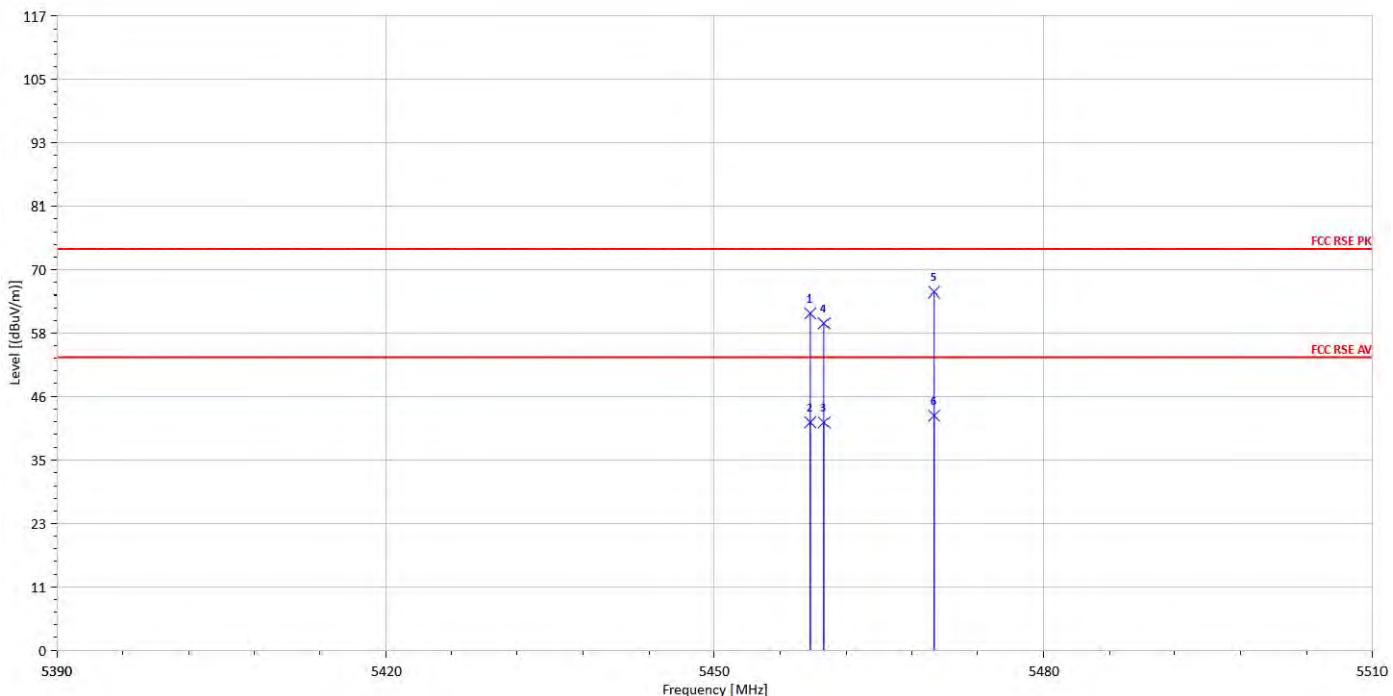
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Operation Mode : 802.11ac20      Test Date : 2016/7/5  
 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low      Test Engineer : Pony  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



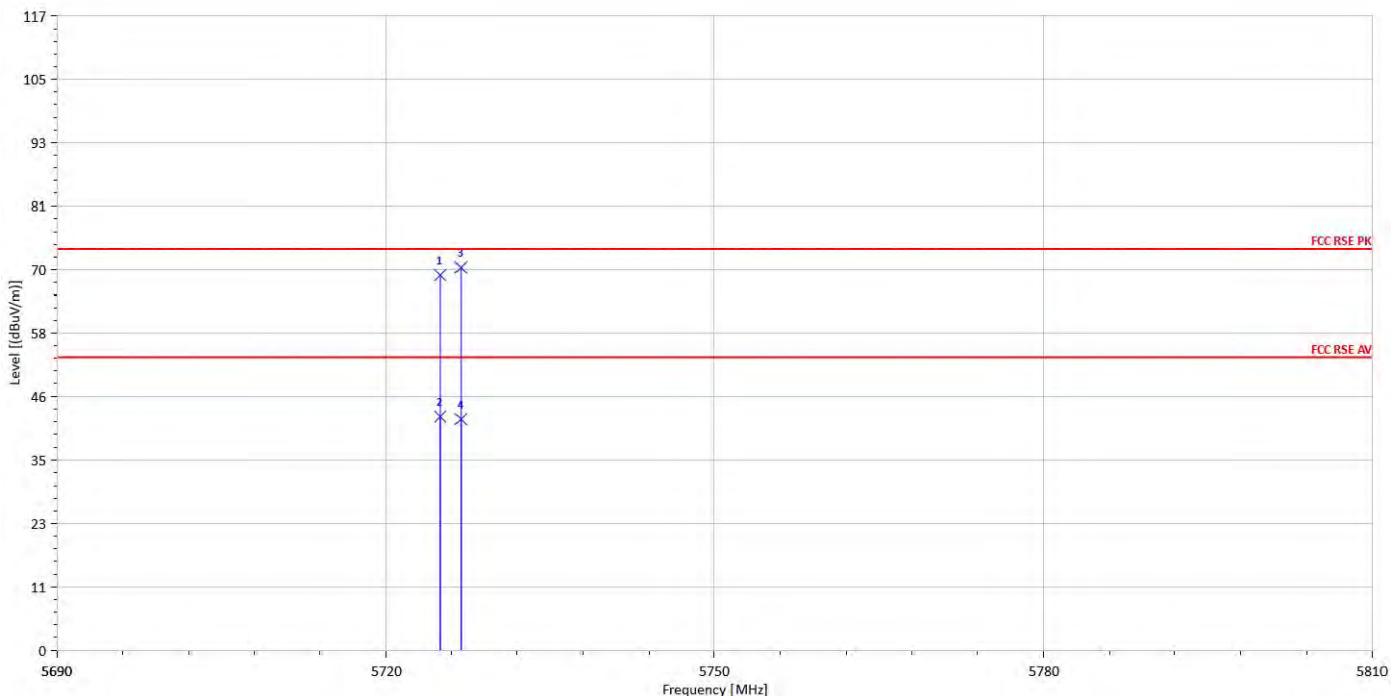
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading	Level				
5458.76	S	Peak	53.28	8.89	62.18	74	-11.82	
5458.76	S	Average	33.19	8.89	42.08	54	-11.92	
5460.00	E	Average	33.18	8.88	42.06	54	-11.94	
5460.00	E	Peak	51.45	8.88	60.34	74	-13.66	
5470.00	E	Peak	57.25	8.79	66.04	74	-7.96	
5470.00	E	Average	34.52	8.79	43.31	54	-10.69	

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Operation Mode : 802.11ac20      Test Date : 2016/7/5  
 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



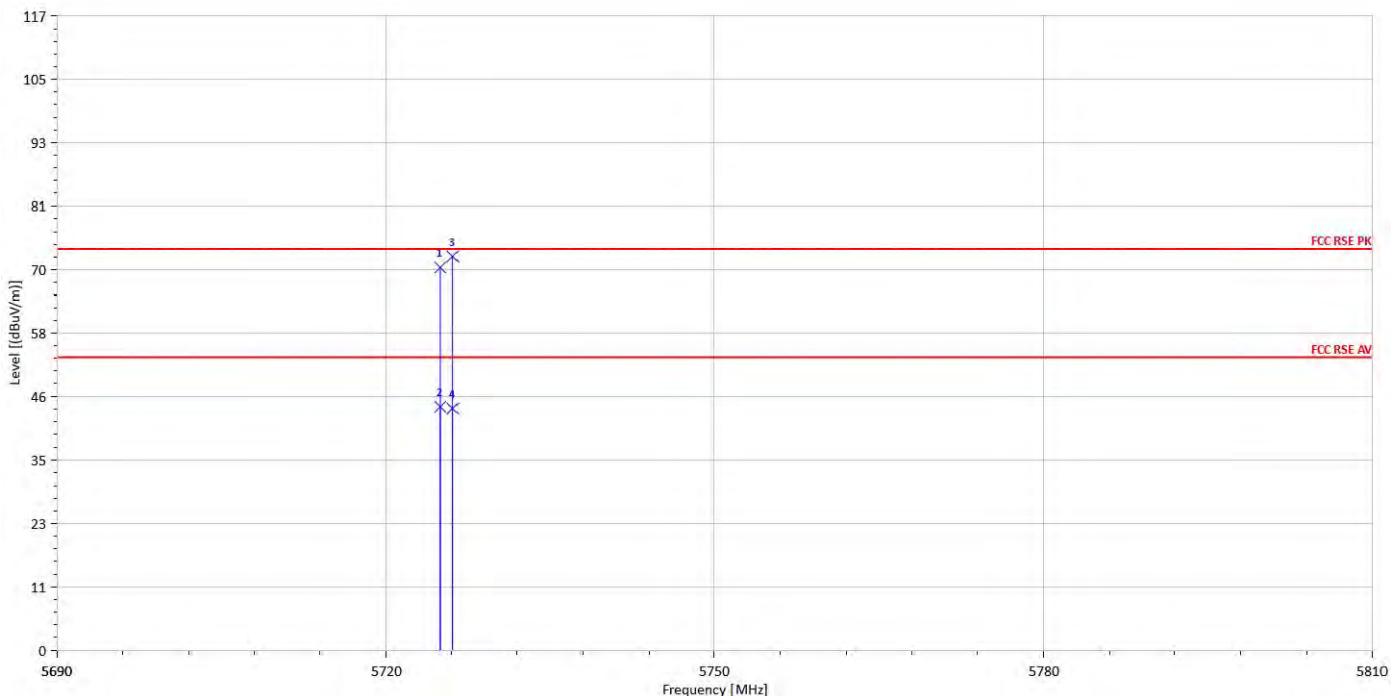
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	E	Peak	59.83	9.30	69.13	74	-4.87
5725.00	E	Average	33.84	9.30	43.14	54	-10.86
5726.84	S	Peak	61.23	9.30	70.54	74	-3.46
5726.84	S	Average	33.36	9.30	42.66	54	-11.34

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Operation Mode : 802.11ac20      Test Date : 2016/7/5  
 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 $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	E	Peak	61.26	9.30	70.56	74	-3.44
5725.00	E	Average	35.68	9.30	44.98	54	-9.02
5726.12	S	Peak	63.33	9.30	72.64	74	-1.36
5726.12	S	Average	35.35	9.30	44.65	54	-9.35

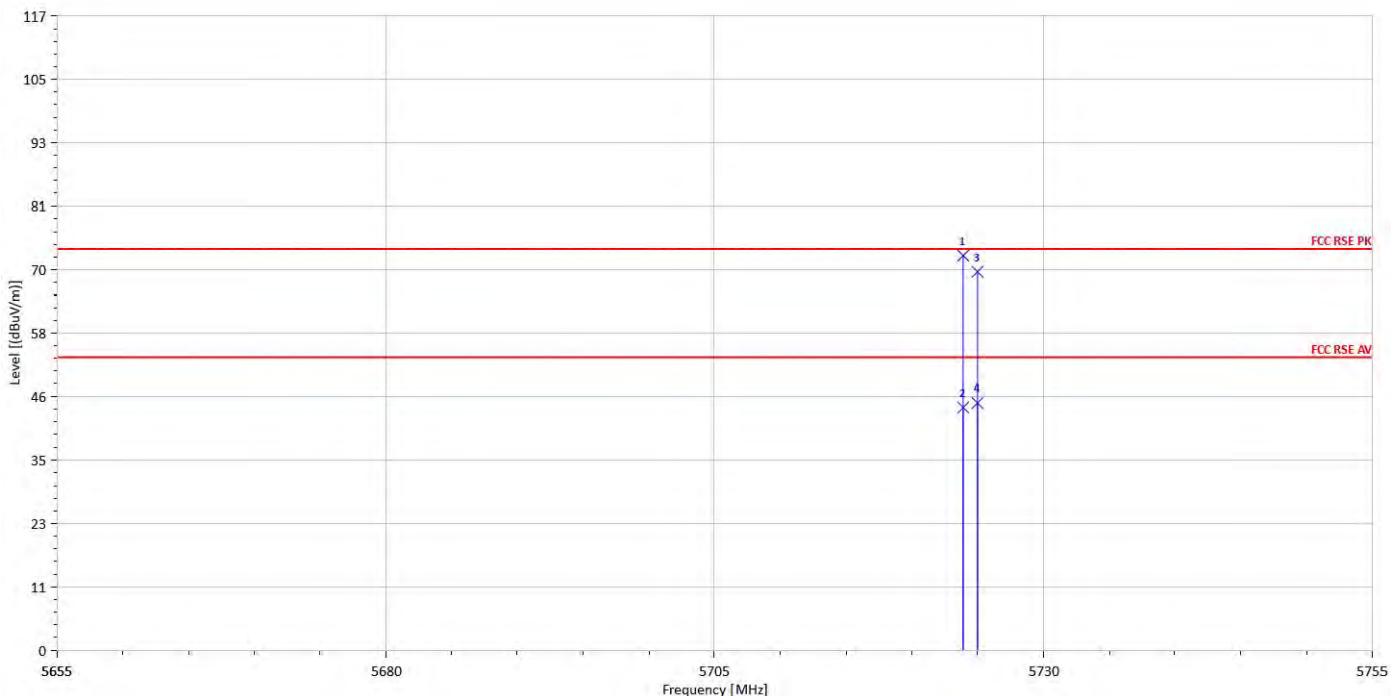
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Operation Mode : 802.11ac20      Test Date : 2016/7/5  
 Fundamental Frequency : 5745 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low      Test Engineer : Pony  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



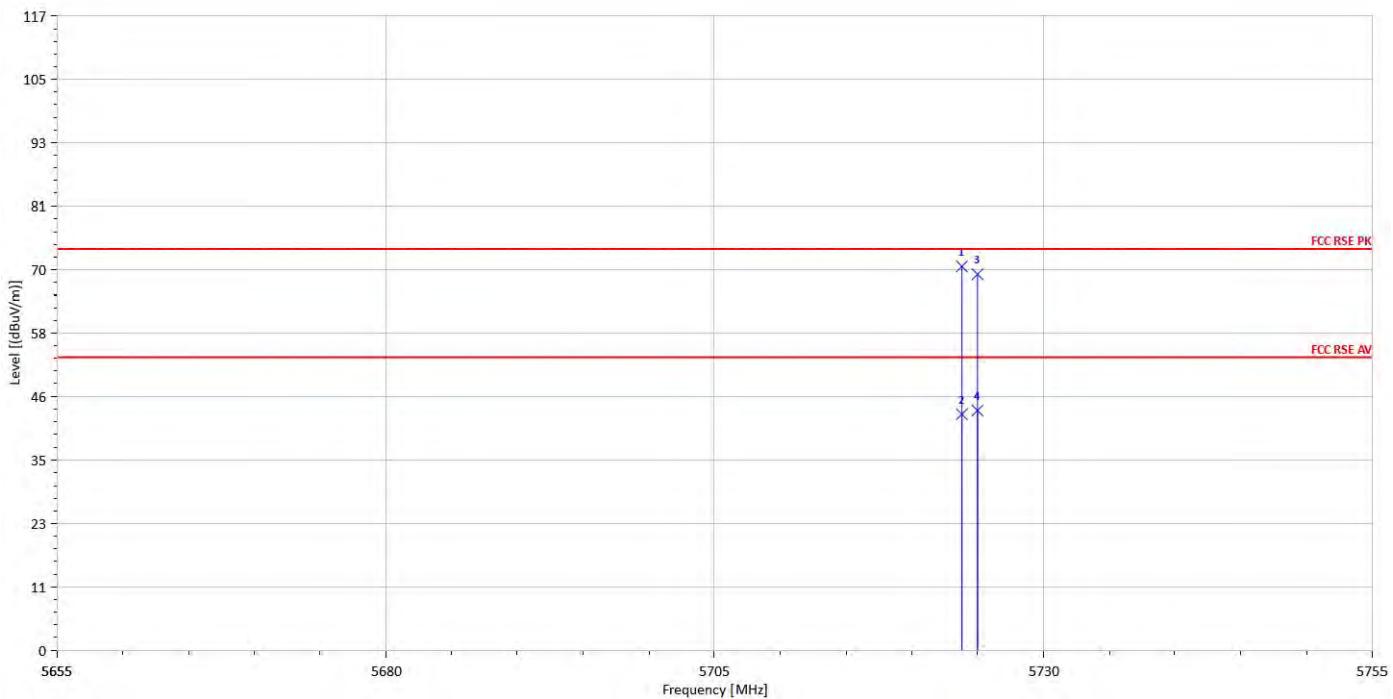
Freq. MHz	Note	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
		PK/QP/AV		dB			
5723.90	S	Peak	63.48	9.30	72.78	74	-1.22
5723.90	S	Average	35.55	9.30	44.85	54	-9.15
5725.00	E	Peak	60.46	9.30	69.76	74	-4.24
5725.00	E	Average	36.37	9.30	45.67	54	-8.33

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Operation Mode : 802.11ac20      Test Date : 2016/7/5  
 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



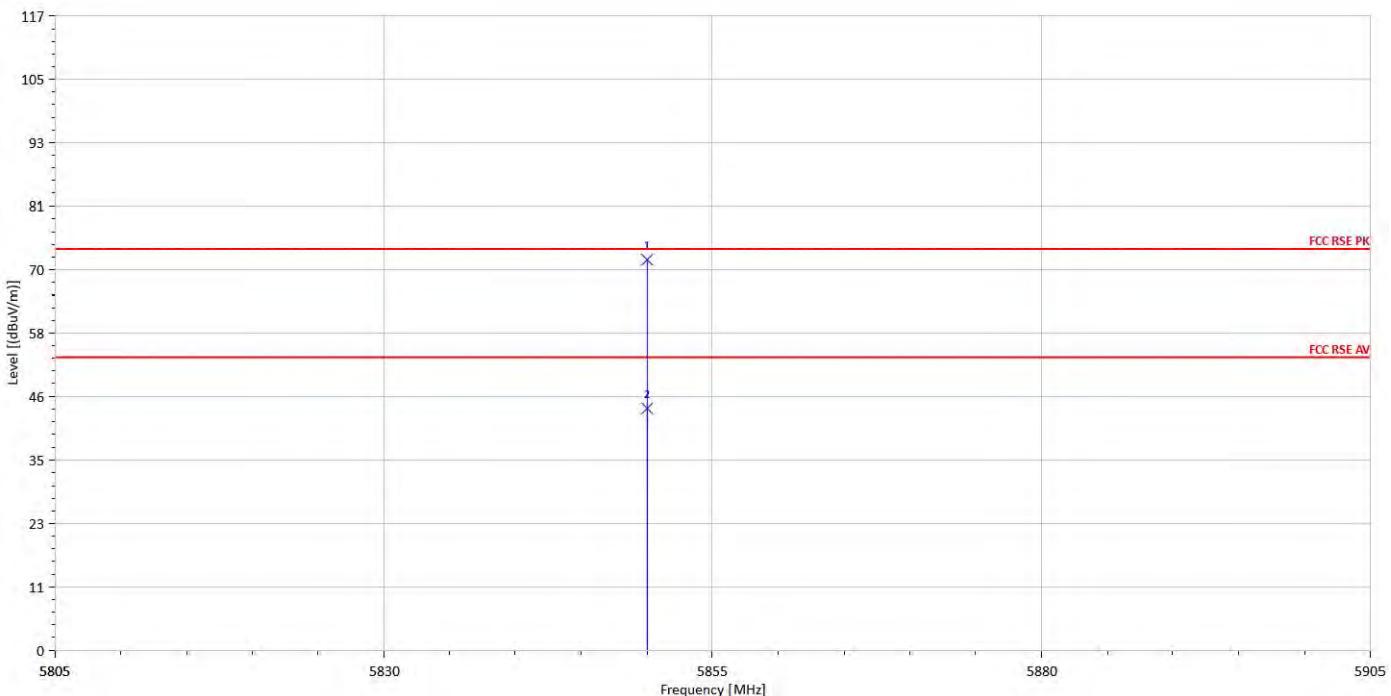
Freq. MHz	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
		PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5723.80	S	Peak	61.48	9.30	70.78	74	-3.22
5723.80	S	Average	34.28	9.30	43.58	54	-10.42
5725.00	E	Peak	59.99	9.30	69.29	74	-4.71
5725.00	E	Average	34.98	9.30	44.28	54	-9.72

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Operation Mode : 802.11ac20      Test Date : 2016/7/5  
 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



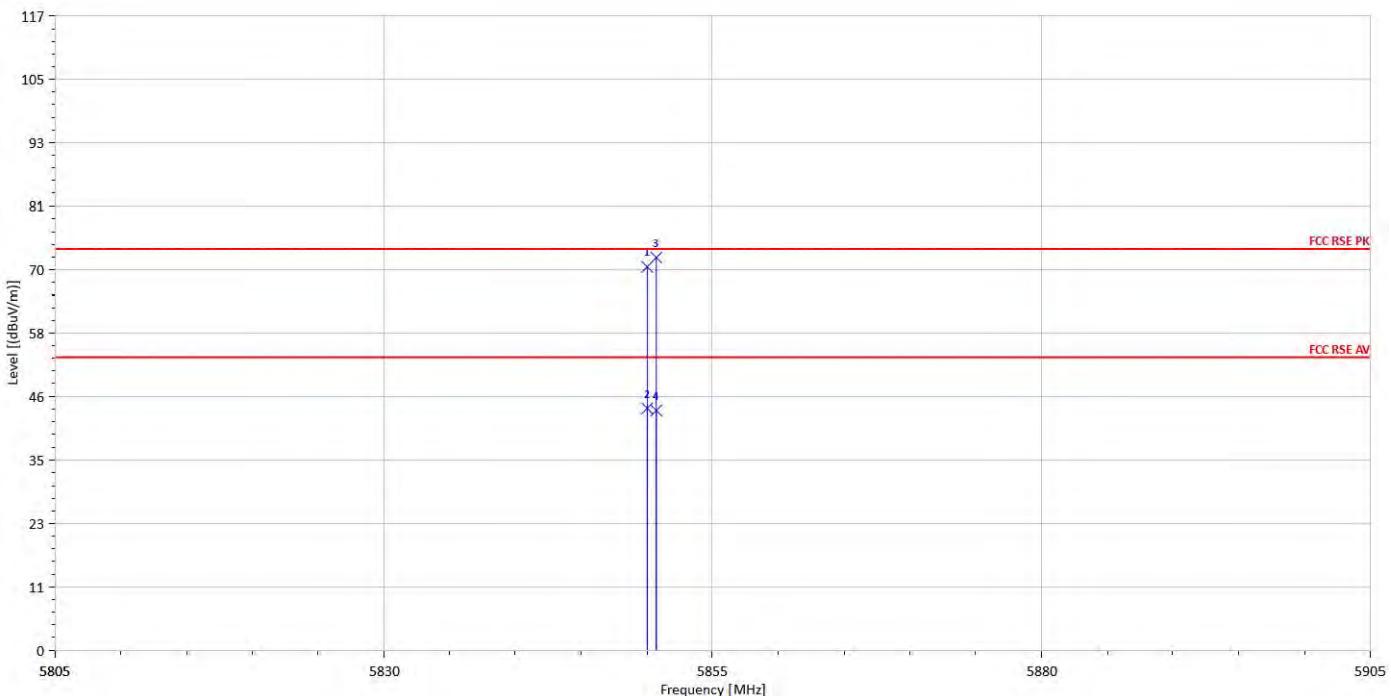
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5850.00	E	Peak	62.53	9.49	72.02	74	-1.98
5850.00	E	Average	35.19	9.49	44.68	54	-9.32

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Operation Mode : 802.11ac20      Test Date : 2016/7/5  
 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 $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	61.20	9.49	70.69	74	-3.31
5850.00	E	Average	35.19	9.49	44.68	54	-9.32
5850.70	S	Peak	62.92	9.50	72.42	74	-1.58
5850.70	S	Average	34.78	9.50	44.28	54	-9.72

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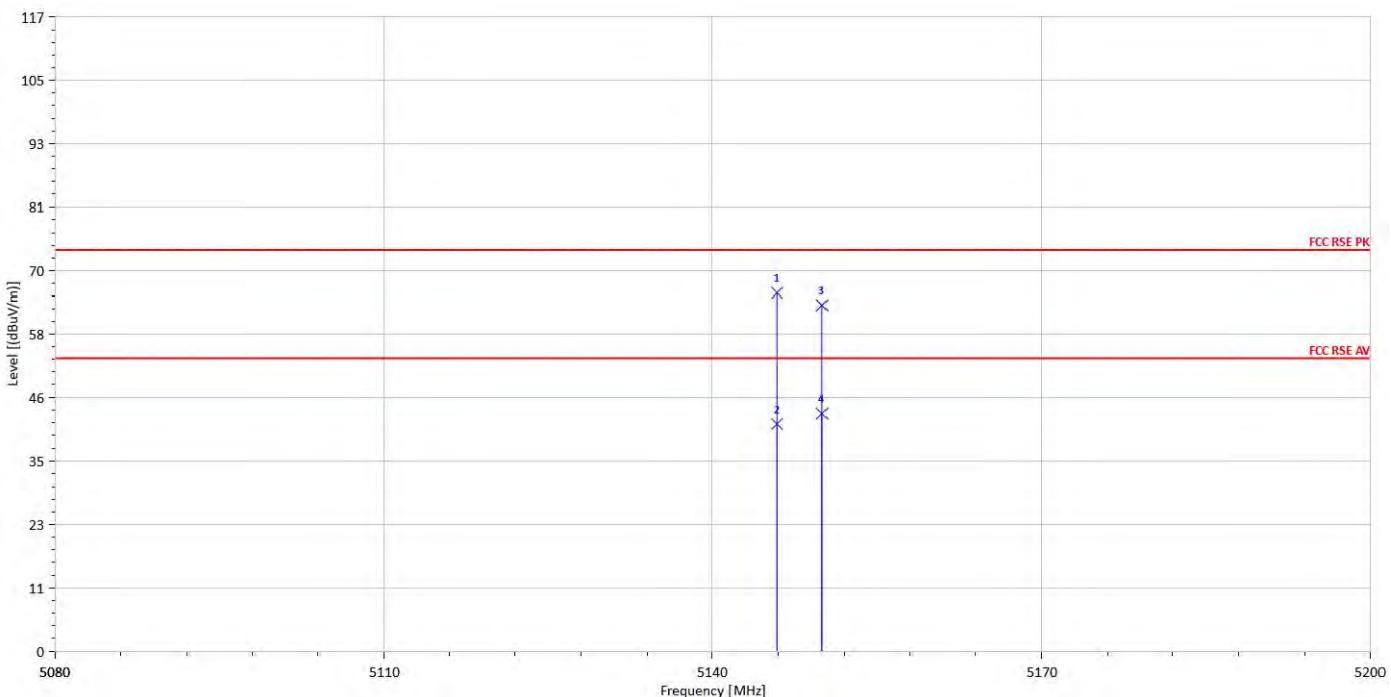
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## Band edge falling to restricted band

### 802.11ac\_VHT40 mode

Operation Mode : 802.11ac40 Test Date : 2016/7/1  
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH Low Test Engineer : Ashton  
 EUT Pol. : H Measurement Antenna Pol. : Vertical



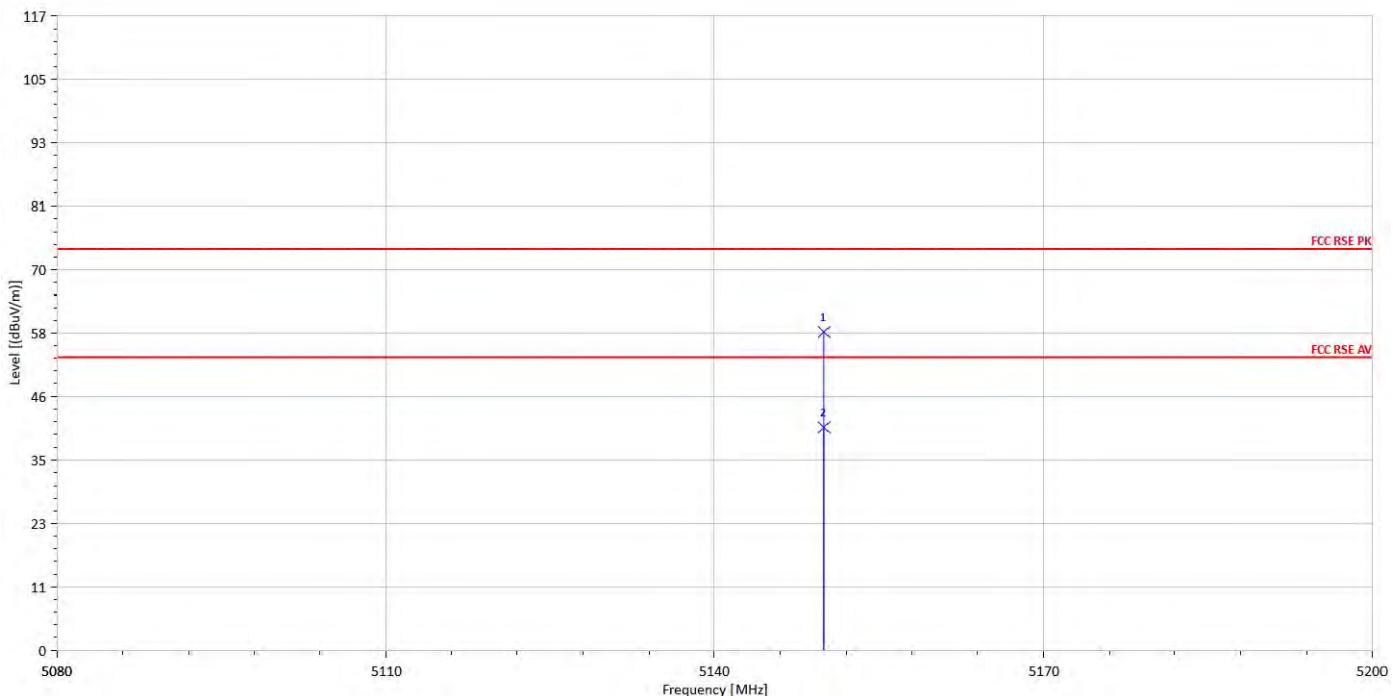
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5145.88	S	Peak	57.92	8.17	66.09	74	-7.91
5145.88	S	Average	33.79	8.17	41.96	54	-12.04
5150.00	E	Peak	55.66	8.19	63.85	74	-10.15
5150.00	E	Average	35.69	8.19	43.88	54	-10.12

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Operation Mode : 802.11ac40 Test Date : 2016/7/2  
Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Ashton  
EUT Pol. : H Measurement Antenna Pol. : Horizontal



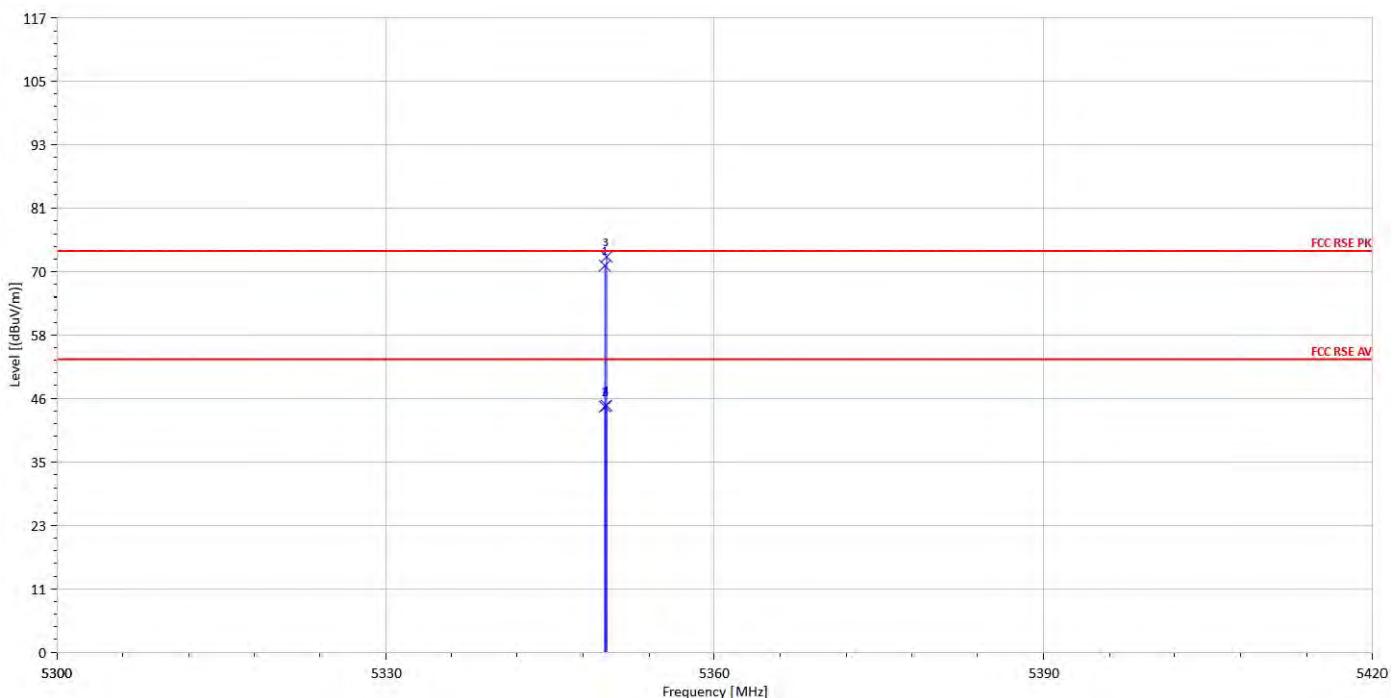
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5150.00	E	Peak	50.54	8.19	58.73	74	-15.27
5150.00	E	Average	32.94	8.19	41.13	54	-12.87

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Operation Mode : 802.11ac40      Test Date : 2016/7/2  
 Fundamental Frequency : 5310 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH High      Test Engineer : Ashton  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



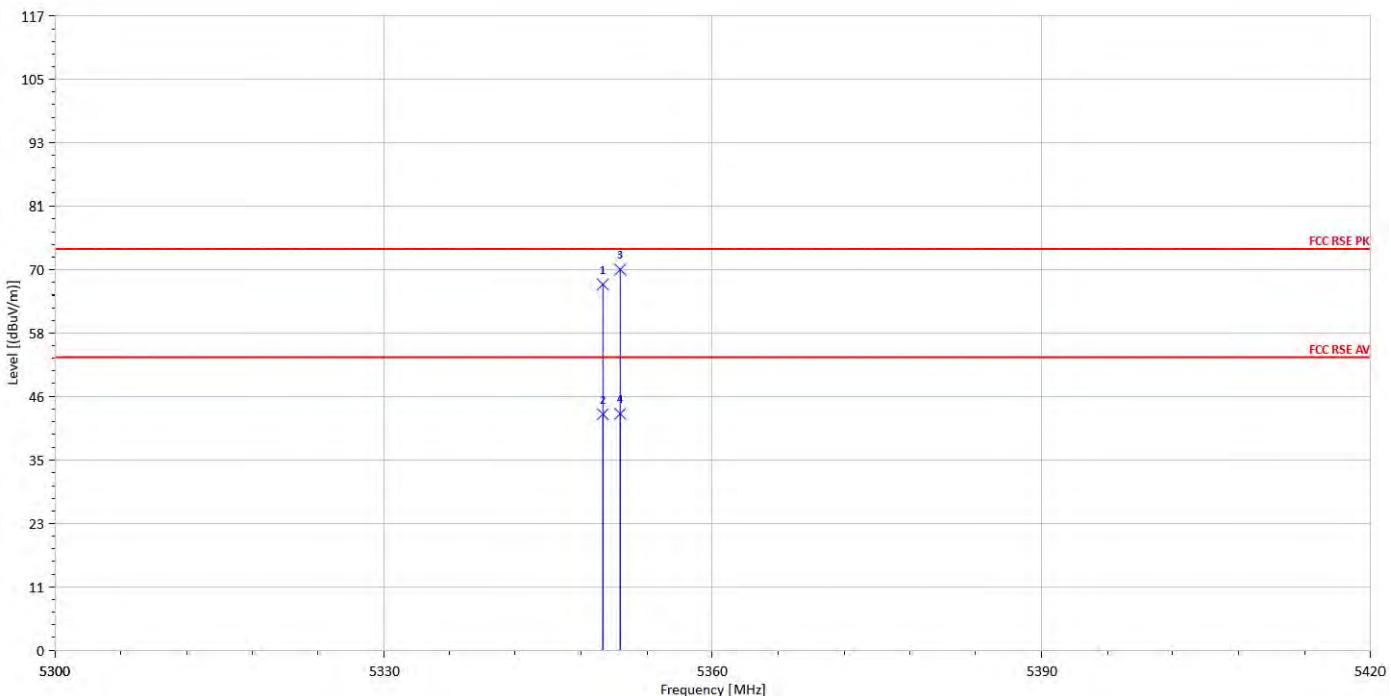
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	E	Peak	62.29	8.96	71.26	74	-2.74
5350.00	E	Average	36.43	8.96	45.39	54	-8.61
5350.16	S	Peak	63.96	8.97	72.93	74	-1.07
5350.16	S	Average	36.59	8.97	45.56	54	-8.44

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Operation Mode : 802.11ac40      Test Date : 2016/7/2  
 Fundamental Frequency : 5310 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH High      Test Engineer : Ashton  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



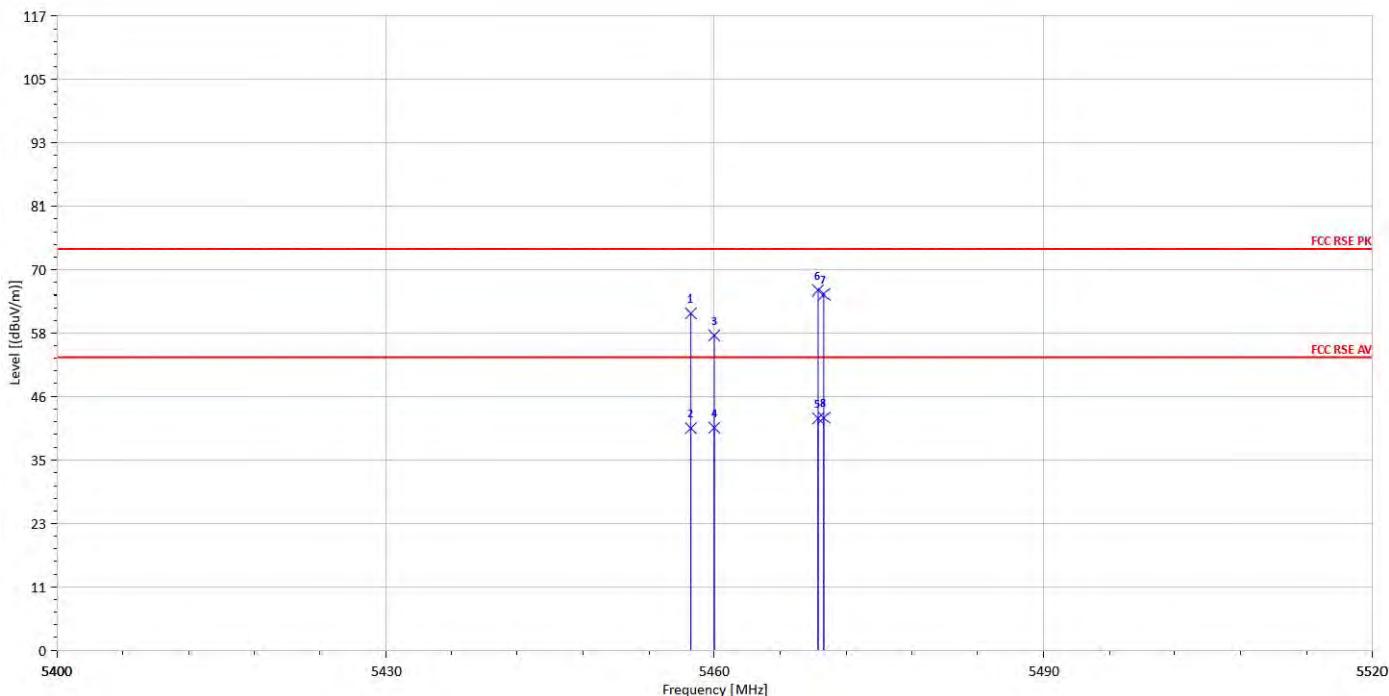
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	E	Peak	58.45	8.96	67.41	74	-6.59
5350.00	E	Average	34.62	8.96	43.58	54	-10.42
5351.60	S	Peak	61.19	8.99	70.18	74	-3.82
5351.60	S	Average	34.67	8.99	43.66	54	-10.34

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
 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



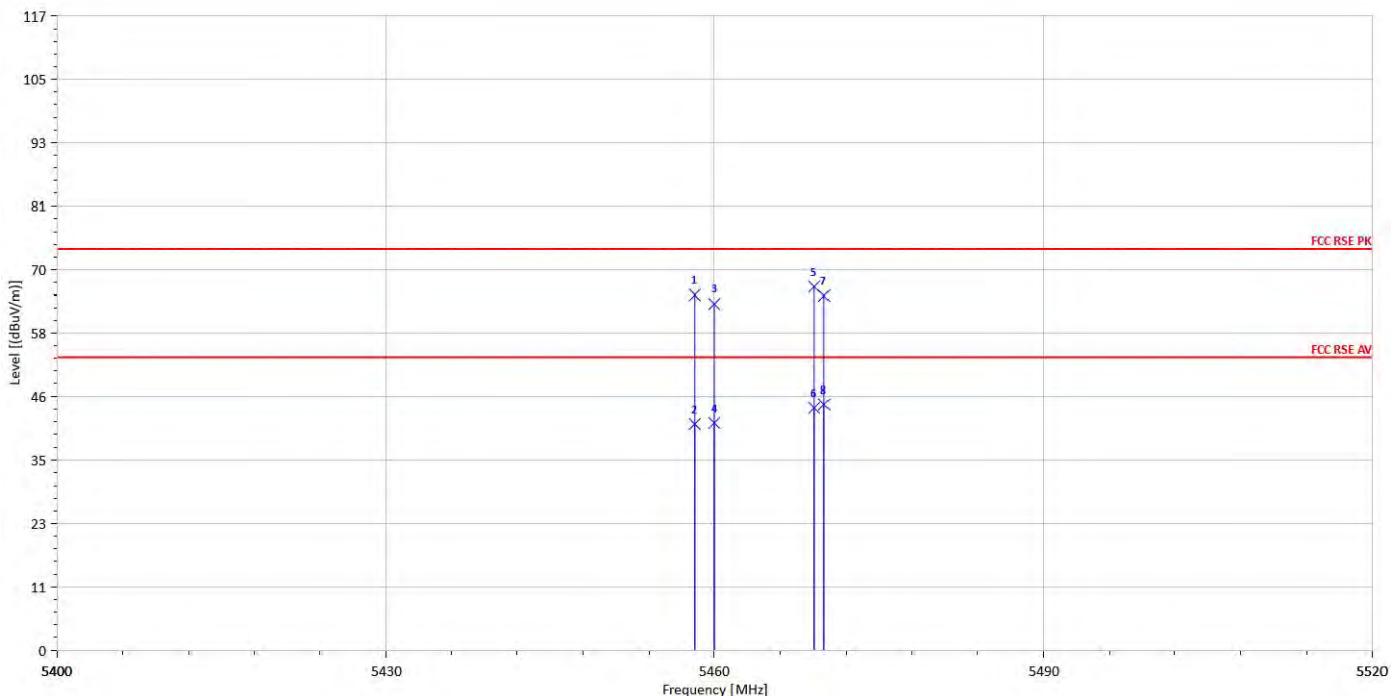
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5457.84	S	Peak	53.29	8.90	62.19	74	-11.81
5457.84	S	Average	32.08	8.90	40.98	54	-13.02
5460.00	E	Peak	49.19	8.88	58.08	74	-15.92
5460.00	E	Average	32.19	8.88	41.07	54	-12.93
5469.48	S	Average	34.01	8.79	42.80	54	-11.20
5469.48	S	Peak	57.53	8.79	66.32	74	-7.68
5470.00	E	Peak	56.86	8.79	65.65	74	-8.35
5470.00	E	Average	34.14	8.79	42.93	54	-11.07

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Operation Mode : 802.11ac40 Test Date : 2016/7/5  
 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	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5458.20	S	Peak	56.64	8.90	65.54	74	-8.46
5458.20	S	Average	32.86	8.90	41.76	54	-12.24
5460.00	S	Peak	55.02	8.88	63.90	74	-10.10
5460.00	S	Average	33.08	8.88	41.96	54	-12.04
5469.12	S	Peak	58.22	8.80	67.02	74	-6.98
5469.12	S	Average	35.98	8.80	44.78	54	-9.22
5470.00	E	Peak	56.61	8.79	65.40	74	-8.60
5470.00	E	Average	36.62	8.79	45.41	54	-8.59

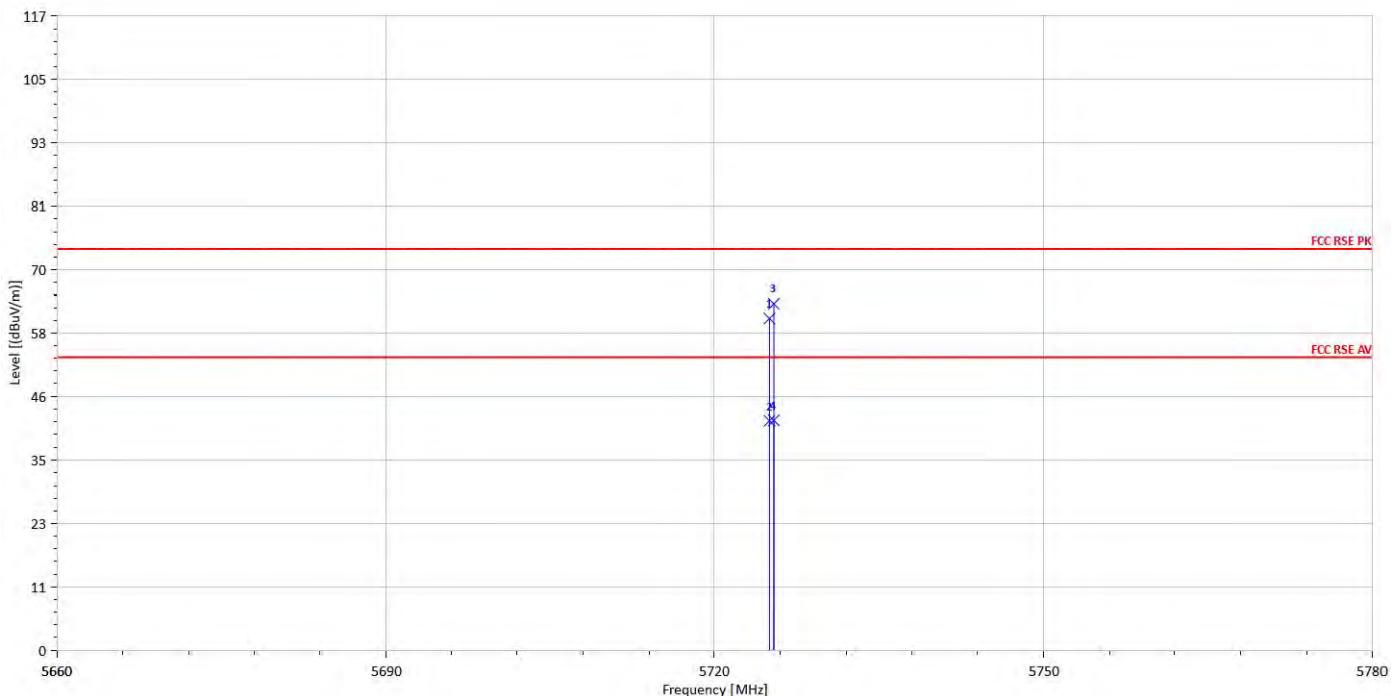
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Operation Mode : 802.11ac40 Test Date : 2016/7/5  
Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : H Measurement Antenna Pol. : Vertical



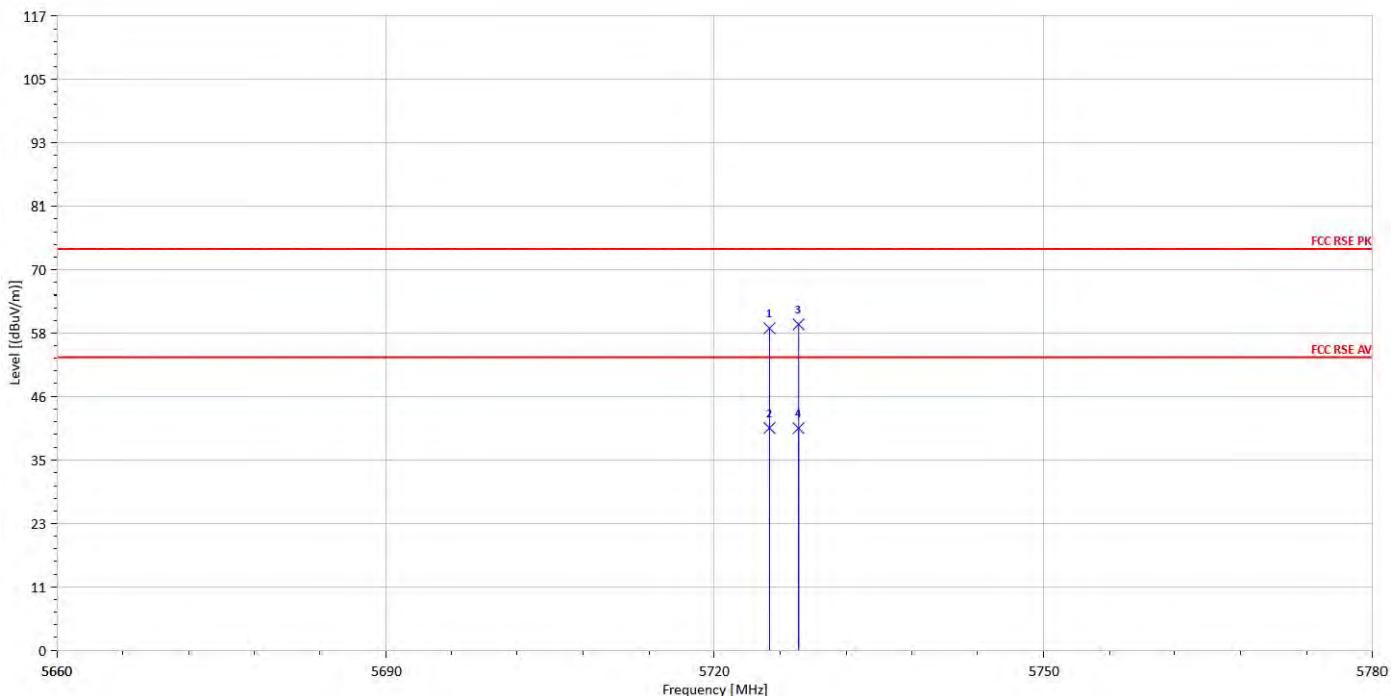
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading	Level dB $\mu$ V				
5725.00	E	Peak	51.93	9.30	61.23	74	-12.77	
5725.00	E	Average	33.06	9.30	42.36	54	-11.64	
5725.40	S	Peak	54.66	9.30	63.96	74	-10.04	
5725.40	S	Average	33.13	9.30	42.43	54	-11.57	

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
 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



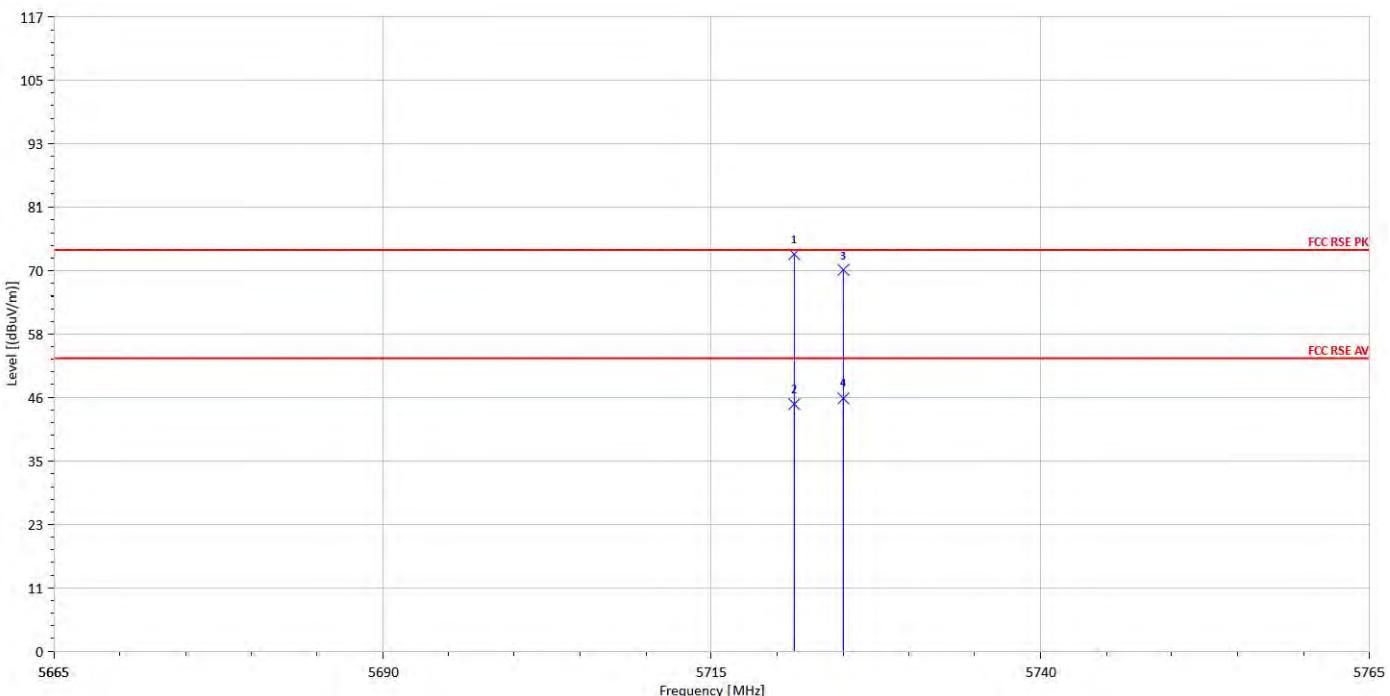
Freq. MHz	Note	Detector Mode	Spectrum Reading Level dBµV	Factor	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
		PK/QP/AV		dB			
5725.00	E	Peak	50.11	9.30	59.41	74	-14.59
5725.00	E	Average	31.72	9.30	41.02	54	-12.98
5727.68	S	Peak	50.85	9.30	60.15	74	-13.85
5727.68	S	Average	31.68	9.30	40.98	54	-13.02

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
 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



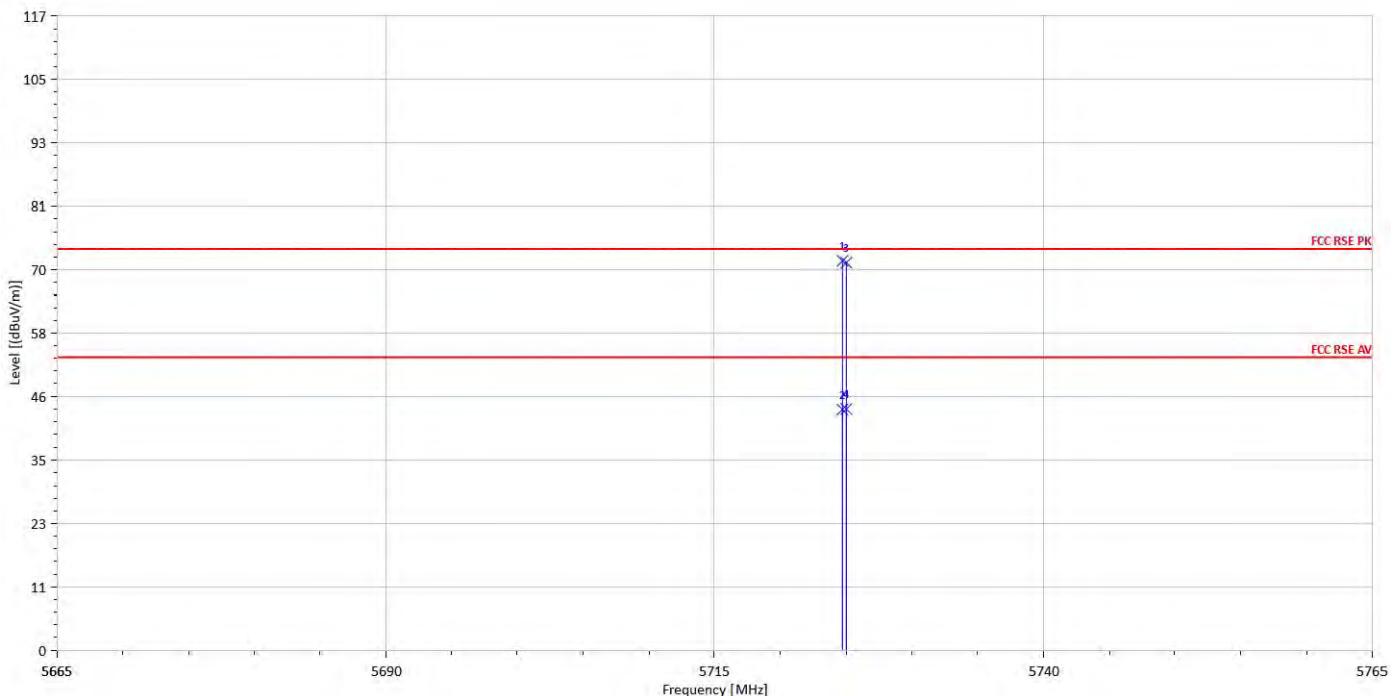
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5721.30	S	Peak	63.94	9.29	73.22	74	-0.78
5721.30	S	Average	36.37	9.29	45.66	54	-8.34
5725.00	E	Peak	61.01	9.30	70.31	74	-3.69
5725.00	E	Average	37.41	9.30	46.71	54	-7.29

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Operation Mode : 802.11ac40 Test Date : 2016/7/5  
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



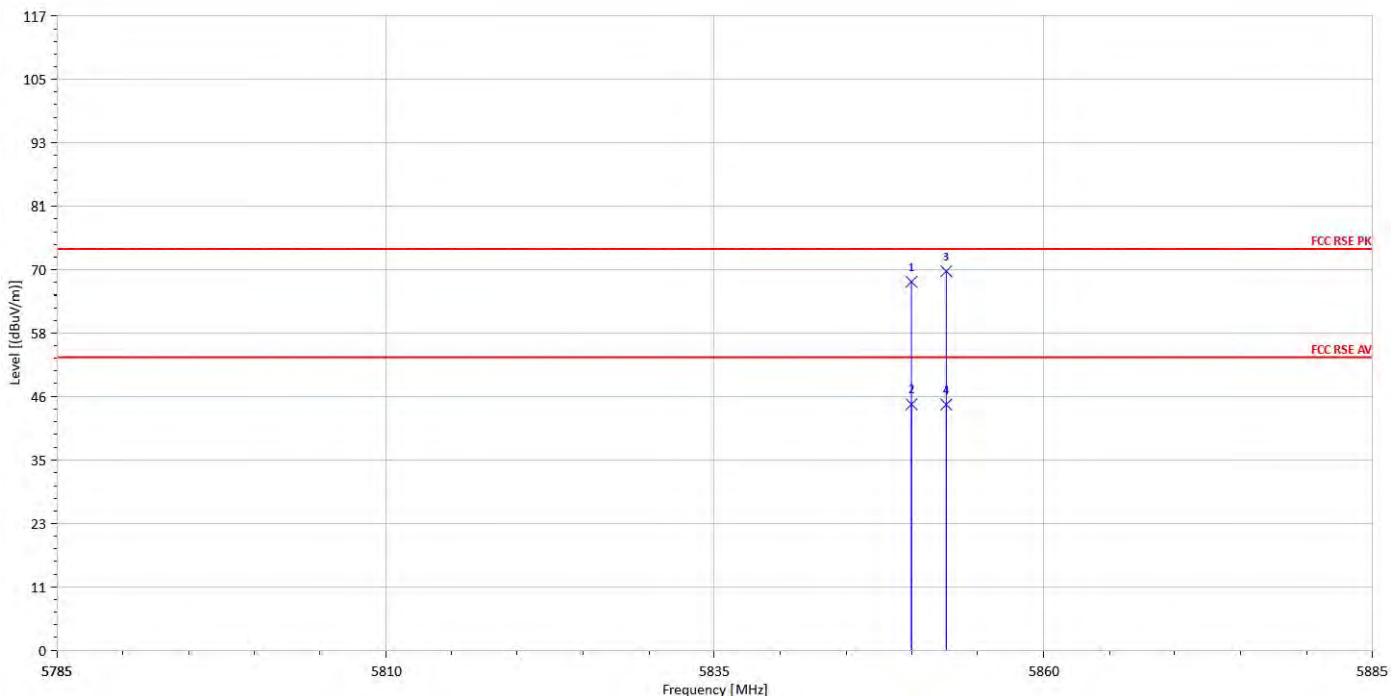
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5724.70	S	Peak	62.48	9.30	71.78	74	-2.22
5724.70	S	Average	35.16	9.30	44.46	54	-9.54
5725.00	E	Peak	62.17	9.30	71.47	74	-2.53
5725.00	E	Average	35.25	9.30	44.55	54	-9.45

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
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



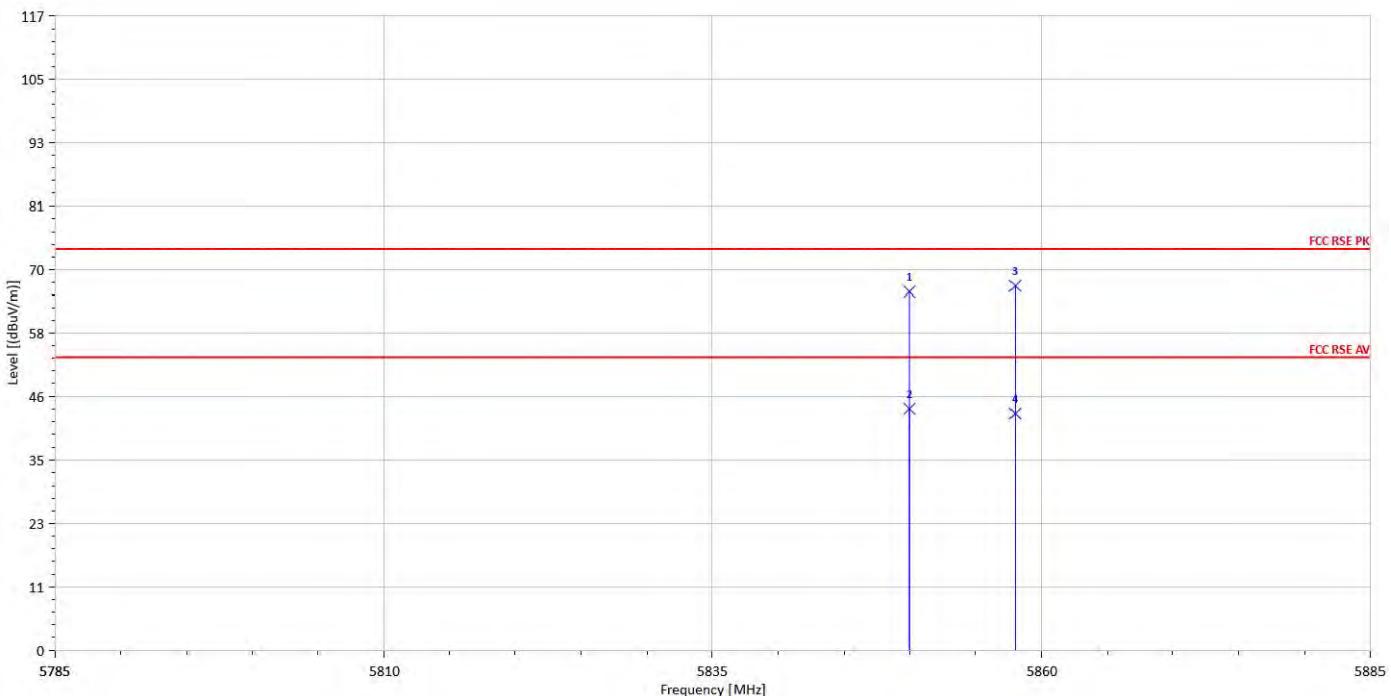
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	58.41	9.49	67.90	74	-6.10
5850.00	E	Average	35.94	9.49	45.43	54	-8.57
5852.60	S	Peak	60.33	9.54	69.86	74	-4.14
5852.60	S	Average	35.85	9.54	45.39	54	-8.61

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Operation Mode : 802.11ac40      Test Date : 2016/7/5  
 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 dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	E	Peak	56.62	9.49	66.11	74	-7.89
5850.00	E	Average	35.12	9.49	44.61	54	-9.39
5858.00	S	Peak	57.53	9.64	67.17	74	-6.83
5858.00	S	Average	34.05	9.64	43.69	54	-10.31

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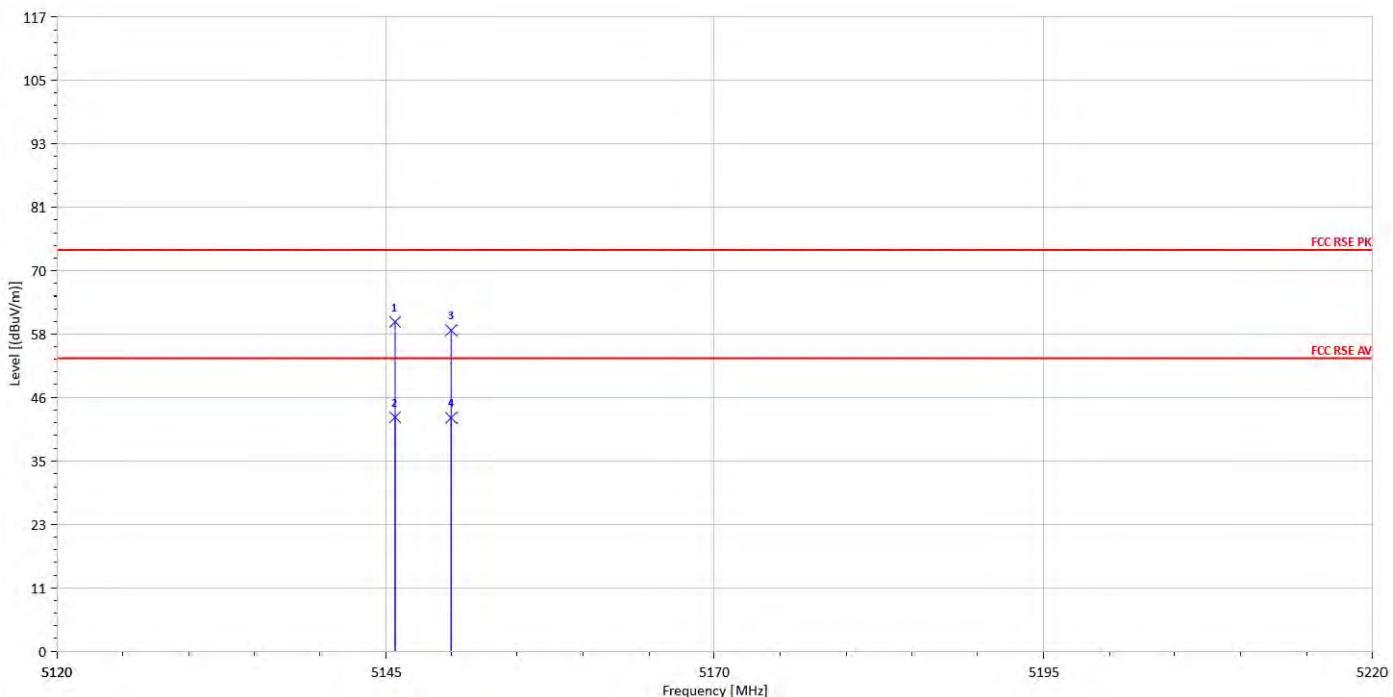
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**Band edge falling to restricted band****802.11ac\_VHT80 mode**

Operation Mode : 802.11ac80 Test Date : 2016/7/2  
Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Ashton  
EUT Pol. : H Measurement Antenna Pol. : Vertical



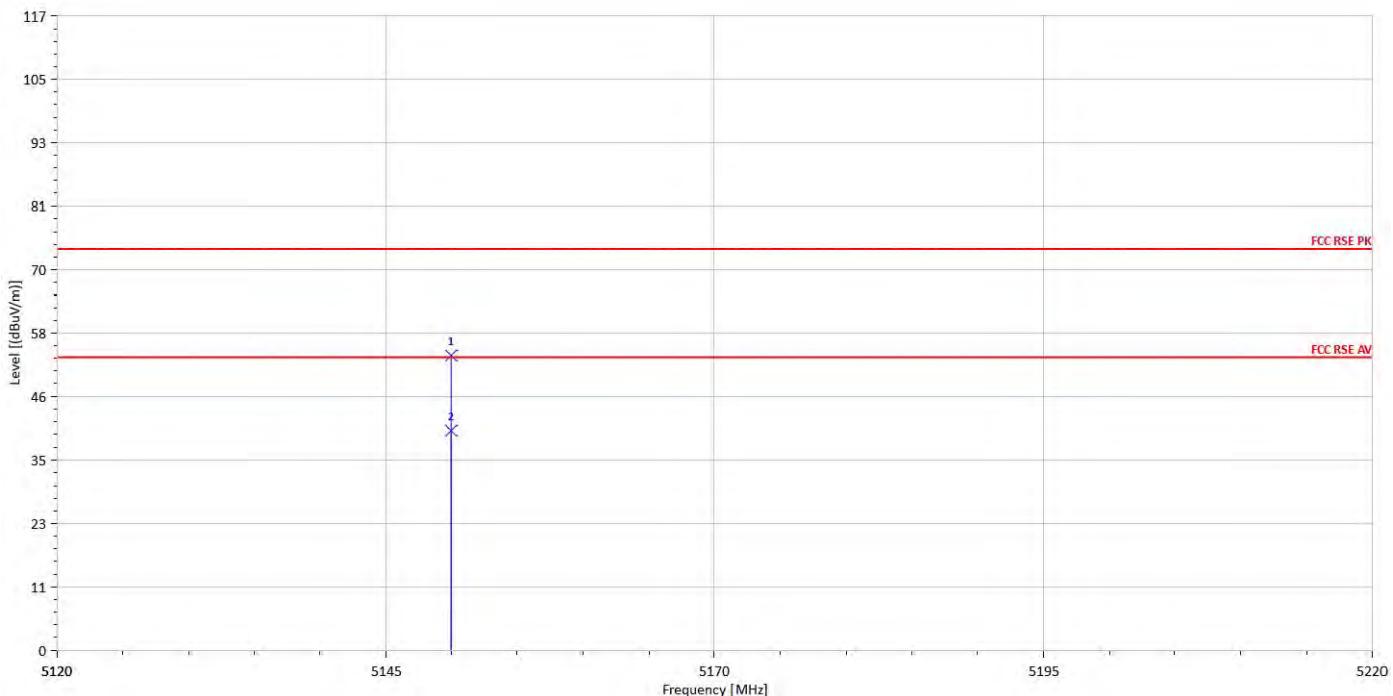
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5145.70	S	Peak	52.64	8.17	60.80	74	-13.20
5145.70	S	Average	35.04	8.17	43.21	54	-10.79
5150.00	E	Peak	51.03	8.19	59.23	74	-14.77
5150.00	E	Average	34.91	8.19	43.10	54	-10.90

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Operation Mode : 802.11ac80 Test Date : 2016/7/2  
Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Ashton  
EUT Pol. : H Measurement Antenna Pol. : Horizontal



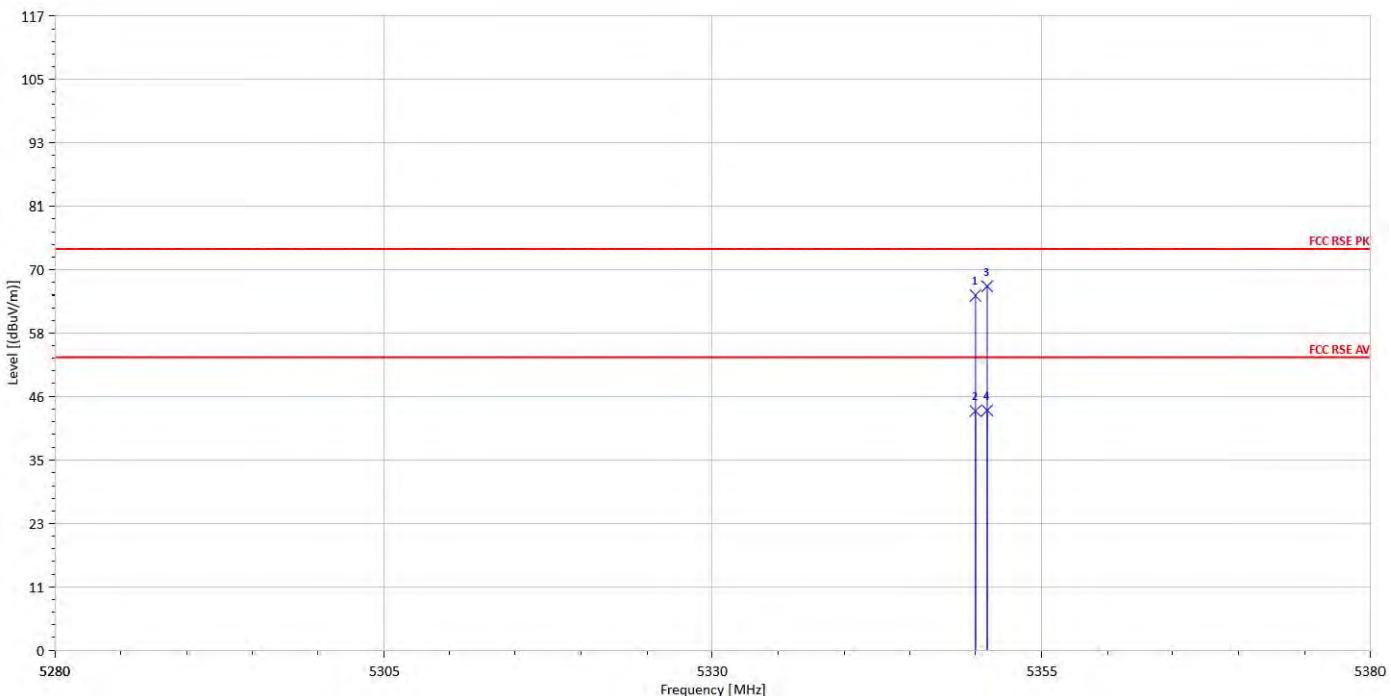
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5150.00	E	Peak	46.15	8.19	54.34	74	-19.66
5150.00	E	Average	32.33	8.19	40.52	54	-13.48

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Operation Mode : 802.11ac80      Test Date : 2016/7/2  
 Fundamental Frequency : 5290 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH High      Test Engineer : Ashton  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



Freq. MHz	Note	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
		PK/QP/AV					
5350.00	E	Peak	56.45	8.96	65.41	74	-8.59
5350.00	E	Average	35.23	8.96	44.19	54	-9.81
5350.90	S	Peak	58.08	8.98	67.05	74	-6.95
5350.90	S	Average	35.32	8.98	44.30	54	-9.70

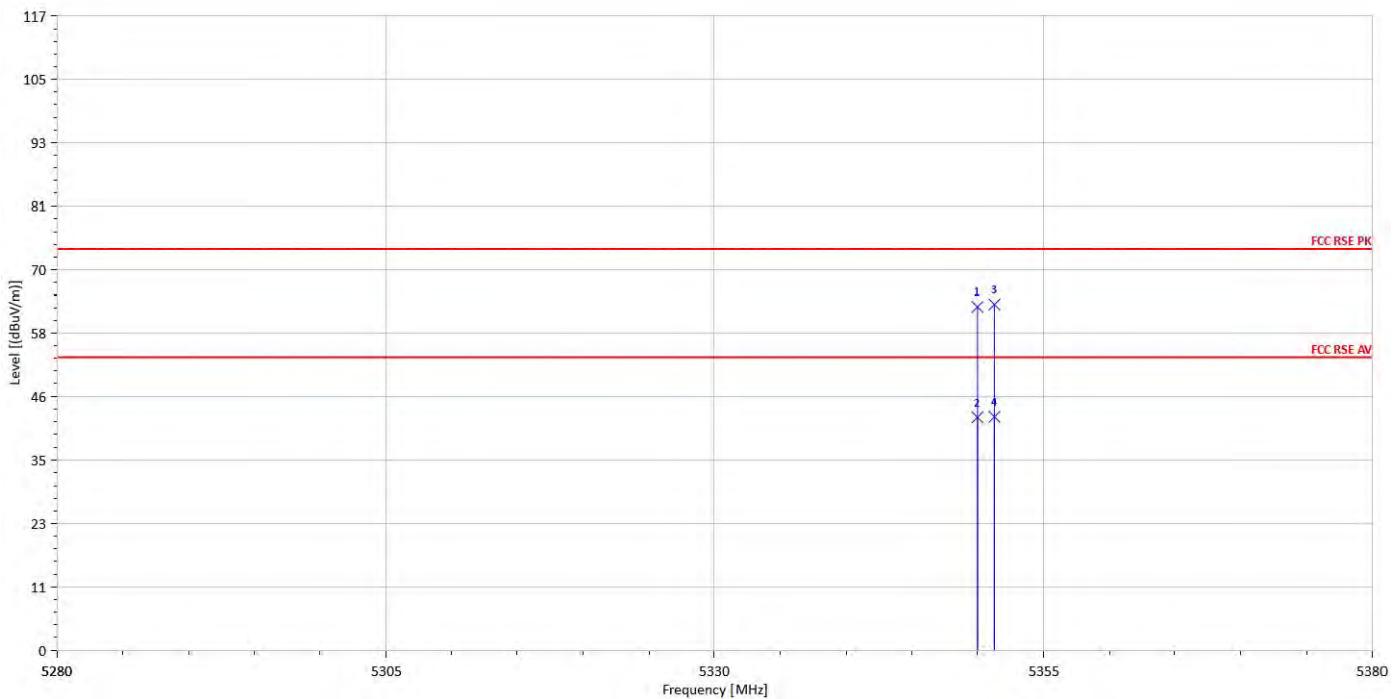
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Operation Mode : 802.11ac80      Test Date : 2016/7/2  
Fundamental Frequency : 5290 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High      Test Engineer : Ashton  
EUT Pol. : H      Measurement Antenna Pol. : Horizontal



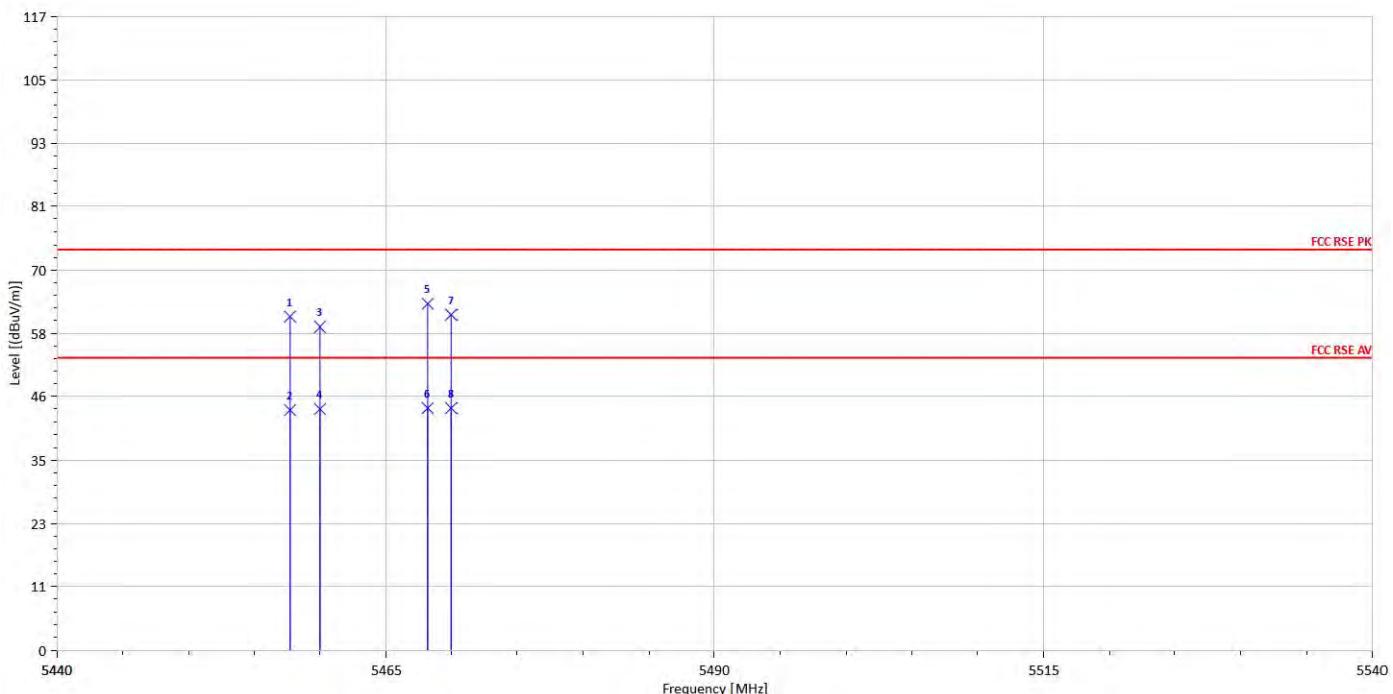
Freq. MHz	Note	Detector Mode	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
		PK/QP/AV					
5350.00	E	Peak	54.42	8.96	63.38	74	-10.62
5350.00	E	Average	34.03	8.96	42.99	54	-11.01
5351.30	S	Peak	54.85	8.99	63.84	74	-10.16
5351.30	S	Average	34.11	8.99	43.10	54	-10.90

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Operation Mode : 802.11ac80      Test Date : 2016/7/27  
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



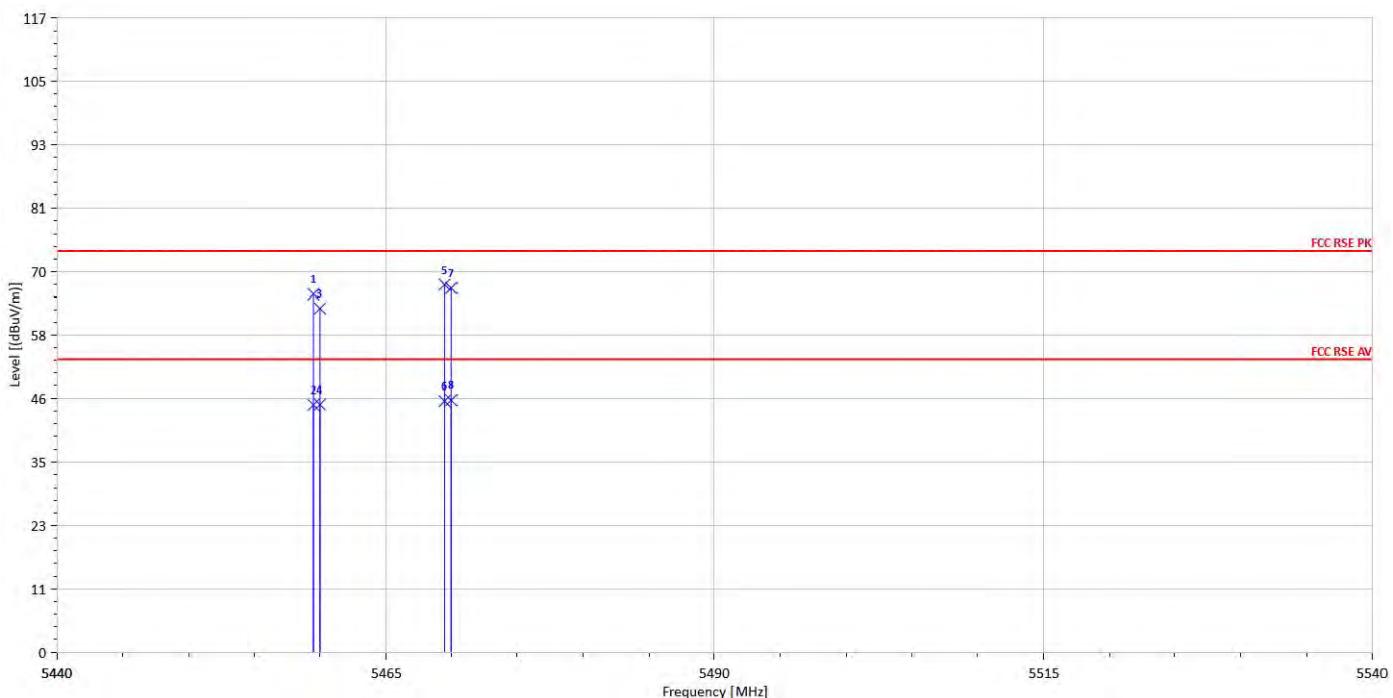
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading	Level				
5457.70	S	Peak	52.61	8.90	61.52	74	-12.48	
5457.70	S	Average	35.35	8.90	44.25	54	-9.75	
5460.00	E	Peak	50.81	8.88	59.69	74	-14.31	
5460.00	E	Average	35.58	8.88	44.46	54	-9.54	
5468.20	S	Peak	55.10	8.81	63.91	74	-10.09	
5468.20	S	Average	35.81	8.81	44.62	54	-9.38	
5470.00	E	Peak	53.07	8.79	61.86	74	-12.14	
5470.00	E	Average	35.83	8.79	44.62	54	-9.38	

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Operation Mode : 802.11ac80      Test Date : 2016/7/27  
 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



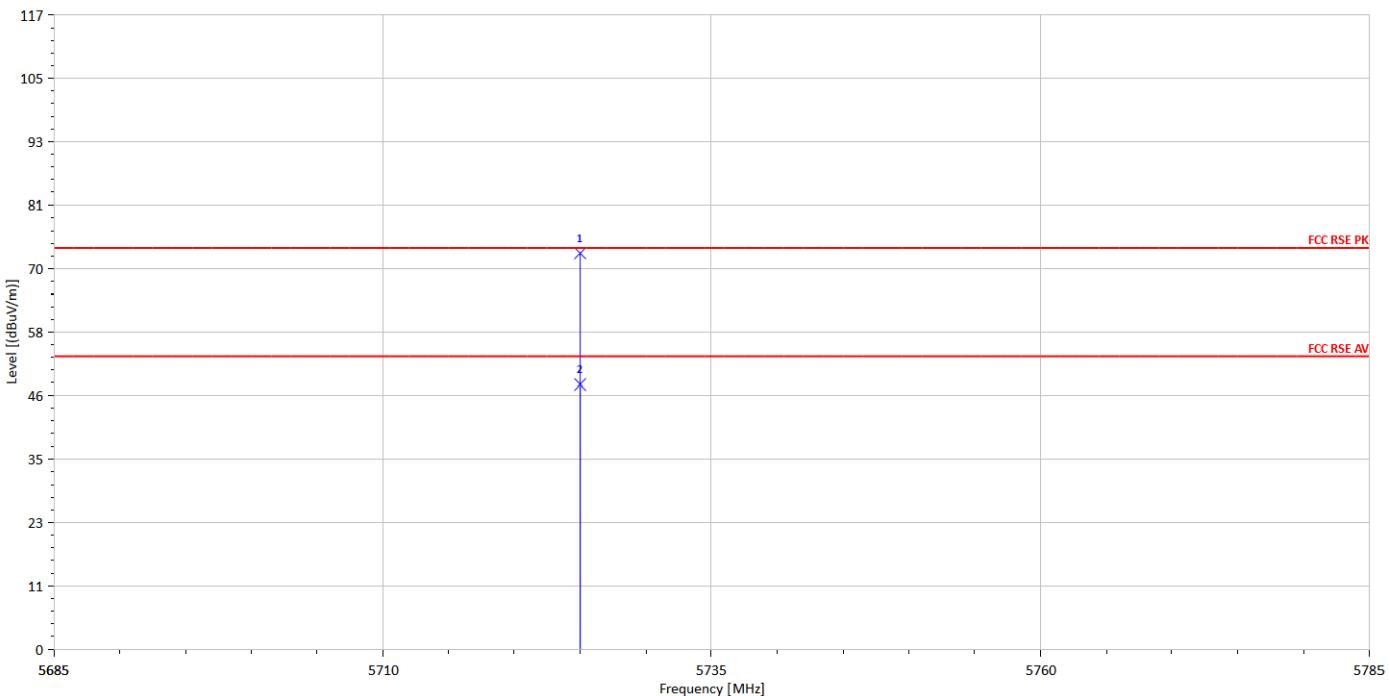
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
			dBμV	dB				
5459.50	S	Peak	57.15	8.89	66.04	74	-7.96	
5459.50	S	Average	36.81	8.89	45.70	54	-8.30	
5460.00	E	Peak	54.56	8.88	63.44	74	-10.56	
5460.00	E	Average	36.88	8.88	45.76	54	-8.24	
5469.50	S	Peak	58.96	8.79	67.75	74	-6.25	
5469.50	S	Average	37.60	8.79	46.39	54	-7.61	
5470.00	E	Peak	58.33	8.79	67.12	74	-6.88	
5470.00	E	Average	37.77	8.79	46.56	54	-7.44	

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Operation Mode : 802.11ac80      Test Date : 2016/7/27  
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



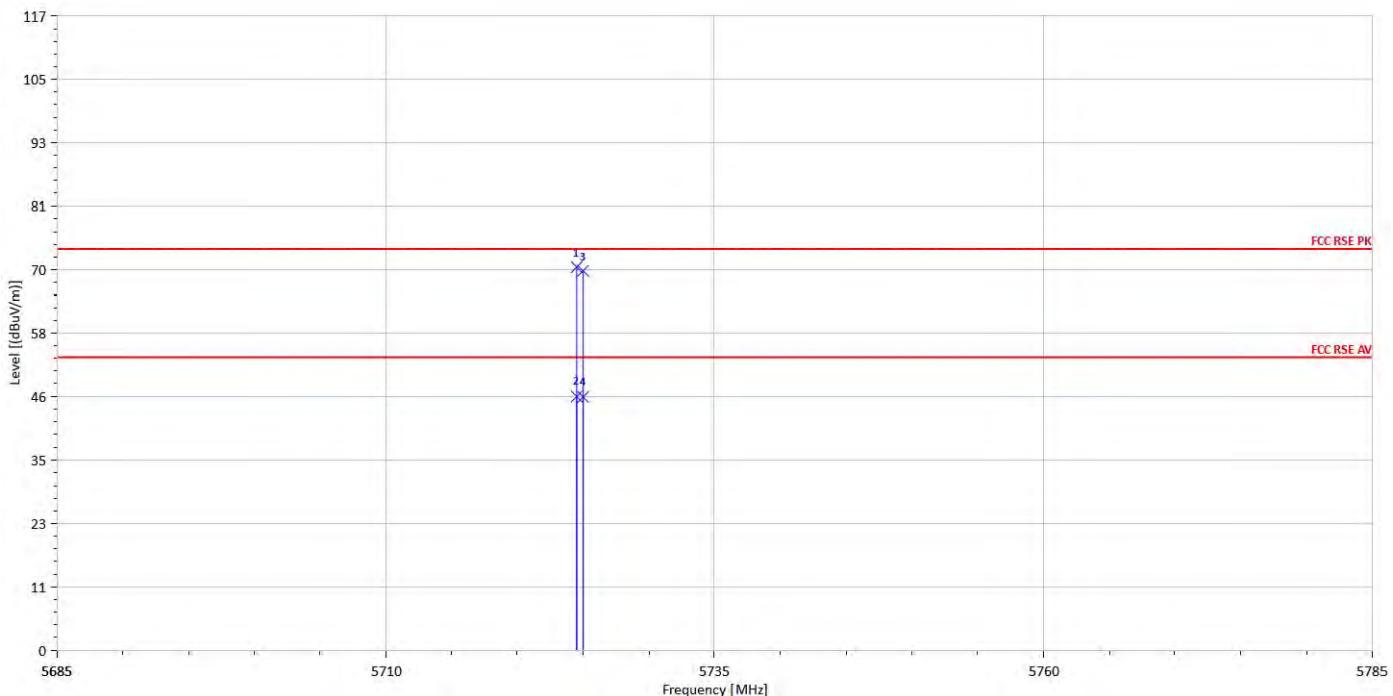
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	E	Peak	63.72	9.30	73.02	74	-0.98
5725.00	E	Average	39.53	9.30	48.83	54	-5.17

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Operation Mode : 802.11ac80 Test Date : 2016/7/27  
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



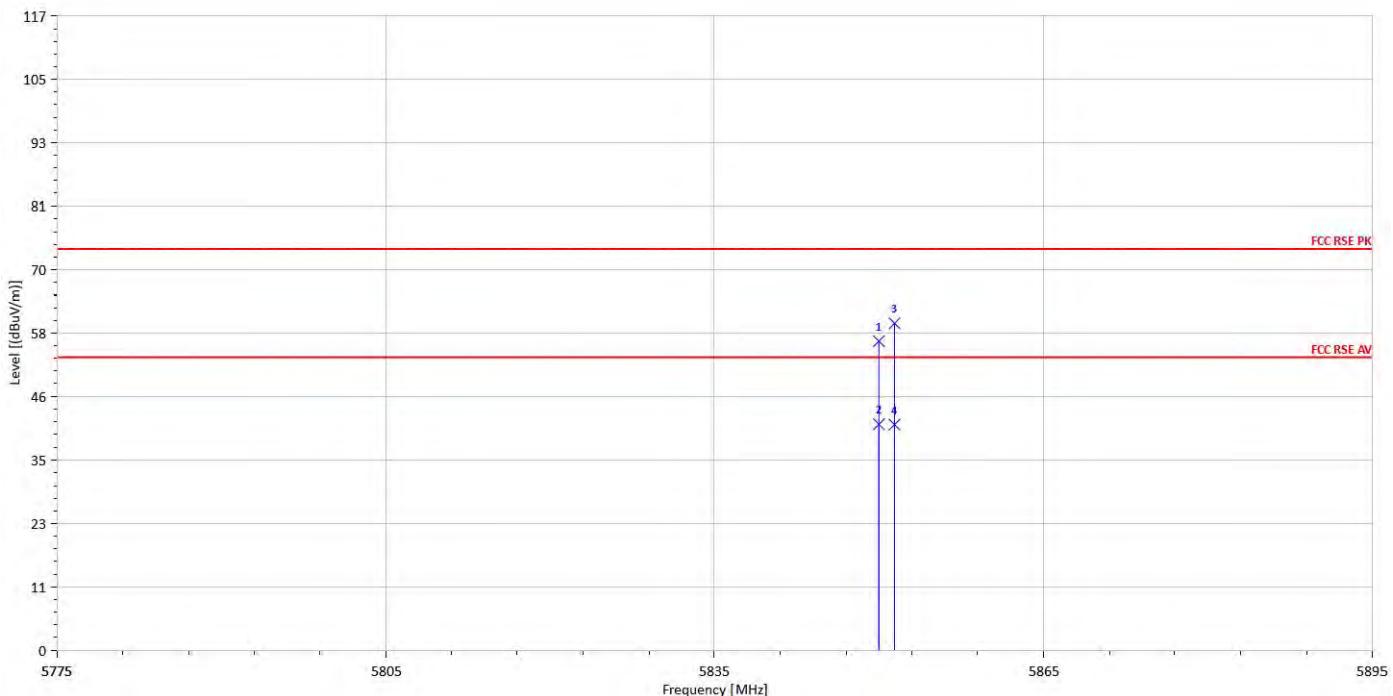
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading	Level dB $\mu$ V				
5724.50	S	Peak	61.35	9.30	70.65	74	-3.35	
5724.50	S	Average	37.58	9.30	46.88	54	-7.12	
5725.00	E	Peak	60.64	9.30	69.94	74	-4.06	
5725.00	E	Average	37.50	9.30	46.80	54	-7.20	

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Operation Mode : 802.11ac80      Test Date : 2016/7/27  
 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



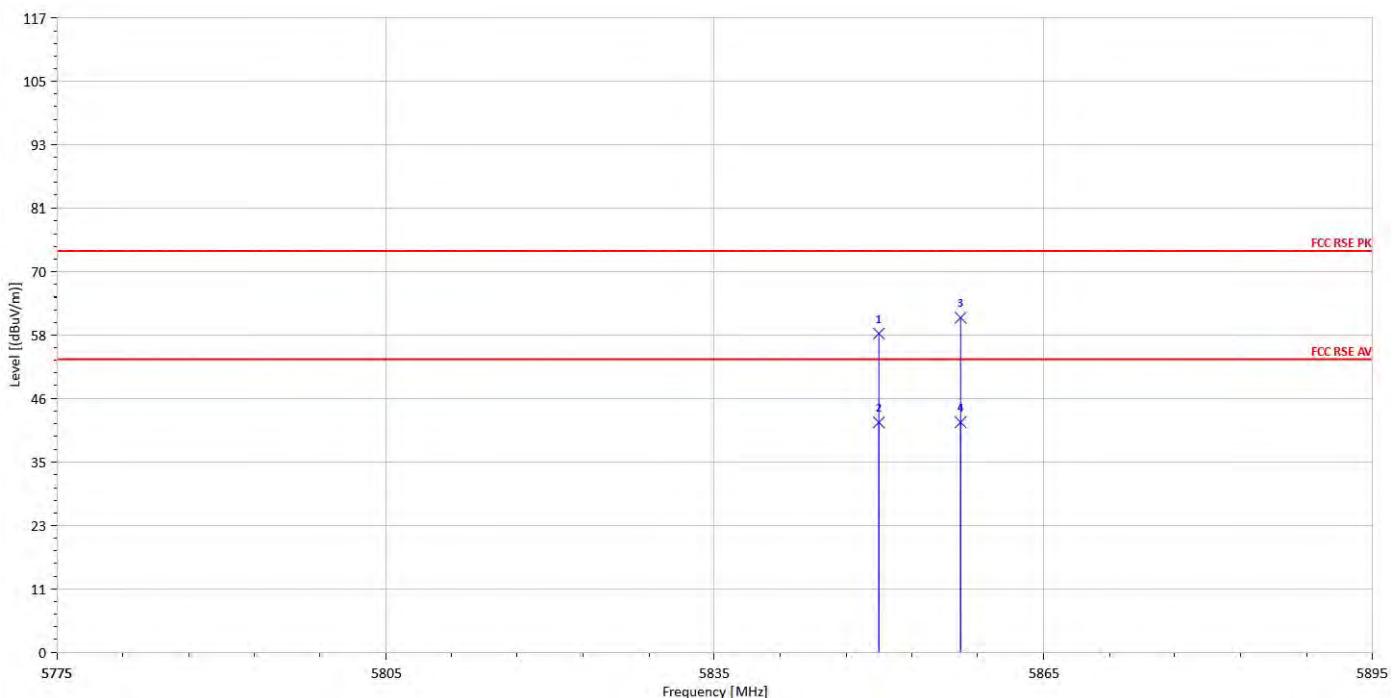
Freq. MHz	Note	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	47.53	9.49	57.02	74	-16.98
5850.00	E	Average	32.22	9.49	41.71	54	-12.29
5851.44	S	Peak	50.82	9.52	60.33	74	-13.67
5851.44	S	Average	32.12	9.52	41.64	54	-12.36

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Operation Mode : 802.11ac80      Test Date : 2016/7/27  
 Fundamental Frequency : 5775 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 $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	49.33	9.49	58.82	74	-15.18
5850.00	E	Average	32.95	9.49	42.44	54	-11.56
5857.44	S	Peak	52.13	9.63	61.75	74	-12.25
5857.44	S	Average	32.83	9.63	42.46	54	-11.54

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## 8. ANTENNA REQUIREMENT

### 8.1 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.<sup>9</sup> 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.

### 8.2 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.

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