

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E AND REQUIREMENT

OF

Product Name: Network Platform
Brand Name: N/A
Model No.: FWA-1010VC,
FWA-1010XXXXXXXXXXXXXXXXXX (where "X" may be any alphanumeric character, "-" or blank)
Model Difference: Market different
FCC ID: M82-FWA-1010
Report No.: E2/2017/60046
Issue Date: Jul. 21, 2017
FCC Rule Part: §15.407
Prepared for: Advantech Co., Ltd
No. 1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 11491, Taiwan, R.O.C.
Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
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VERIFICATION OF COMPLIANCE

Applicant: Advantech Co., Ltd
No. 1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 11491, Taiwan, R.O.C.

Product Name: Network Platform

Brand Name: N/A

Model No.: FWA-1010VC,
FWA-1010XXXXXXXXXXXXXXXXXXXX (where "X" may be any alphanumeric character, "-" or blank)

Model Difference: Market different

FCC ID: M82-FWA-1010

File Number: E2/2017/60046

Date of Test: May 17, 2017 ~ Jul. 17, 2017

Date of EUT Received: May 17, 2017

We hereby certify that:

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

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

Test By:

Aken Huang

Date

Jul. 21, 2017

Aken Huang / Engineer

Prepared By:

Tiffany Kao

Date

Jul. 21, 2017

Tiffany Kao / Clerk

Approved By

Jim Chang

Date

Jul. 21, 2017

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2017/60046	Rev.00	Initial creation of document	Jul. 21, 2017

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Network Platform	
Brand Name:	N/A	
Model No.:	FWA-1010VC, FWA-1010XXXXXXXXXXXXXXXXXX (where "X" may be any alphanumeric character, "-" or blank)	
Model difference:	Market different	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	12V from AC/DC Adapter	
	Adapter:	Model No.: FSP060-DIBAN2 Supplier: FSP GROUP INC.

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	12.98dBm	OFDM
	5250~5350	4	12.92dBm	
	5470~5725	12	12.94dBm	
	5725~5850	5	12.99dBm	
11n / ac_20M	HT20 / VHT20 5150~5250	4	HT:11.97dBm	OFDM
	HT20 / VHT20 5250~5350	4	HT:11.93dBm	
	HT20 / VHT20 5470~5725	12	HT:11.96dBm	
	HT20 / VHT20 5725~5850	5	HT:11.98dBm	
11n / ac_40M	HT40 / VHT40 5150-5250	2	HT: 10.99dBm	OFDM
	HT40 / VHT40 5250-5350	2	HT: 10.78dBm	
	HT40 / VHT40 5470-5725	6	HT: 10.99dBm	
	HT40 / VHT40 5725-5850	2	HT:10.99dBm	
11ac_80M	VHT80 5150~5250	1	VHT: 9.99dBm	OFDM
	VHT80 5250~5350	1	VHT: 9.98dBm	
	VHT80 5470~5725	3	VHT: 9.99dBm	
	VHT80 5725-5850	1	VHT: 9.95dBm	

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<p>Antenna Designation</p>	<p>Dipole Antenna, Part No.:AN2450-74L02BRS, Supplier: INVAX System Technology Corp.</p> <p>1. Main: Gain: 3.49dBi (5150~5250MHz) Gain: 3.49dBi (5250~5350MHz) Gain: 4.2dBi (5470~5725MHz) Gain: 4.37dBi (5725~5850MHz)</p> <p>2. Aux: Gain: 3.49dBi (5150~5250MHz) Gain: 3.49dBi (5250~5350MHz) Gain: 4.2dBi (5470~5725MHz) Gain: 4.37dBi (5725~5850MHz)</p>
<p>Modulation type</p>	<p>CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM</p>
<p>Transition Rate:</p>	<p>802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps 802.11 ac_20MHz: 6.5 –173.3Mbps 802.11 ac_40MHz: 13.5 –400.0Mbps 802.11 ac_80MHz: 29.3 – 866.7Mbps</p>

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 662911 D01 Multiple Transmitter Output

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

ANSI C63.10:2013

Note:

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

1.3 Test Facility

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

FCC Registration Numbers are: 735305

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as 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 a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. 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 one 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.

Note:

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

Following shows an offset computation example with cable loss 4.2dB, and 10dB attenuator. MIMO mode offset

$$= \text{RF cable loss (dB)} + \text{attenuation factor(dB)} + 10 \log(\text{NANT}) \text{ dB} = 14.2(\text{dB})$$

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conduction (AC Power Line) Configuration

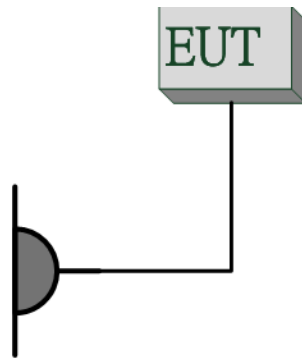


Fig. 2-2 Conducted (Antenna Port) Configuration

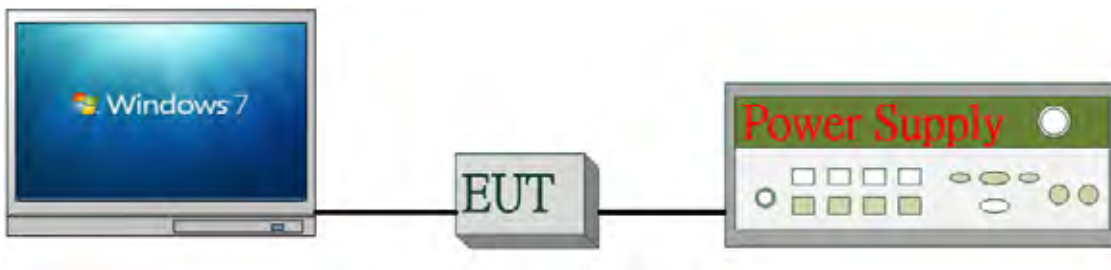


Table 2-1 Equipment Used in Tested System

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
2.	Notebook	Lenovo	L420	LR-7HXZA	Shielded	Un-shielded
3.	DC Power Supply	HOLA	DP-3003	D7070035	N/A	Un-Shielded

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3. SUMMARY OF TEST RESULT

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

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4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

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		

2 channels are provided for 802.11ac_VHT80

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	122	5610 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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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.
4. The given UE is pre-scanned among 802.11n and ac modes, and 802.11n yields the highest reading that generates the highest emission. Therefore, 802.11n as the mode of test configuration is chosen to carry out the relevantly mandatory test items.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	1	2TX
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	2TX
802.11a	5500~5720	100 to 140	100,116,140	OFDM	1	2TX
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	2TX
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	1	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5720	100 to 144	100,116,140	OFDM	1	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	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	1	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	1	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

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

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6. CONDUCTED EMISSION TEST

6.1. Standard Applicable

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

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2016	12/11/2017
Coaxial Cables	N/A	N30N30-1042-15 0cm	N/A	08/30/2016	08/29/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	06/18/2017	06/17/2018
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3. EUT Setup

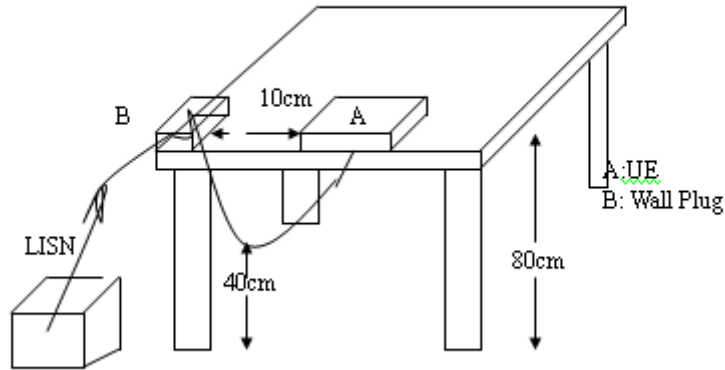
- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- The LISN was connected with 120Vac/60Hz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

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6.4. Test SET-UP



6.5. Measurement Procedure

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

6.6. Measurement Result

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

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

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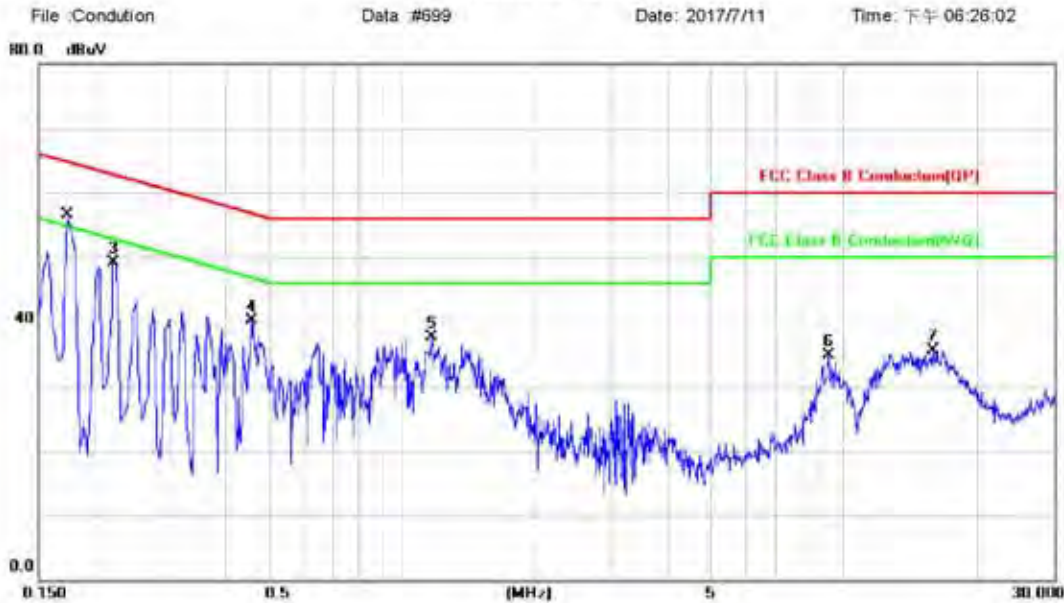
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	Jul. 11, 2017
Temperature:	20	Humidity:	58 %	Test By:	Tin
				Phase:	L1

Site: Conduction Room Phase: L1 Temperature: 23 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 61 %
 Mode:
 Note:

Conducted Emission



No.	Mk.	Freq MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1740	54.80	0.34	55.14	64.77	-9.63	QP	
2		0.1740	40.60	0.34	40.94	54.77	-13.83	AVG	
3		0.2220	48.73	0.33	49.06	62.74	-13.68	peak	
4		0.4580	39.67	0.34	40.01	56.73	-16.72	peak	
5		1.1660	37.05	0.38	37.43	56.00	-18.57	peak	
6		9.2620	33.76	0.86	34.62	60.00	-25.38	peak	
7		15.9260	34.54	0.95	35.49	60.00	-24.51	peak	

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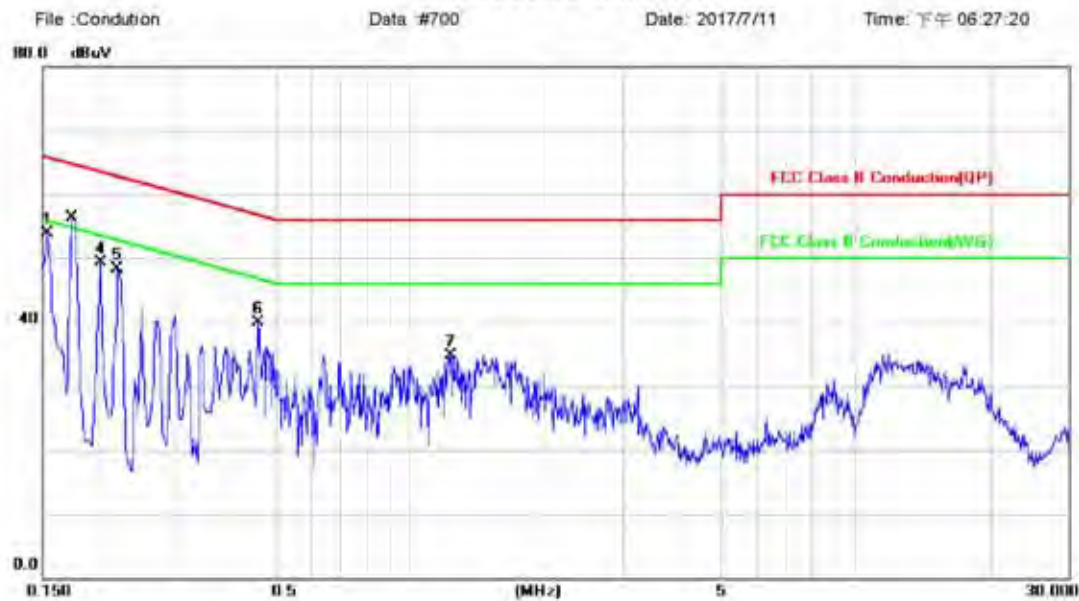
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Site : Conduction Room
 Limit: FCC Class B Conduction(QP)
 Mode:
 Note:
 Phase: **N**
 Power: AC 120V/60Hz
 Temperature: 23 °C
 Humidity: 61 %

Conducted Emission



No.	Mk	Freq MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1540	53.43	0.42	53.85	65.78	-11.93	peak	
2 *		0.1740	54.40	0.42	54.82	64.77	-9.95	QP	
3		0.1740	38.60	0.42	39.02	54.77	-15.75	AVG	
4		0.2020	48.81	0.41	49.22	63.53	-14.31	peak	
5		0.2220	47.96	0.41	48.37	62.74	-14.37	peak	
6		0.4580	39.55	0.42	39.97	56.73	-16.76	peak	
7		1.2380	34.28	0.43	34.71	56.00	-21.29	peak	

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7. DUTY CYCLE TEST SIGNAL

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

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

Formula:

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

Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty)
802.11a	100.00	0.00
802.11n_20	100.00	0.00
802.11n_40	100.00	0.00
802.11ac_80	100.00	0.00

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

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

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

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

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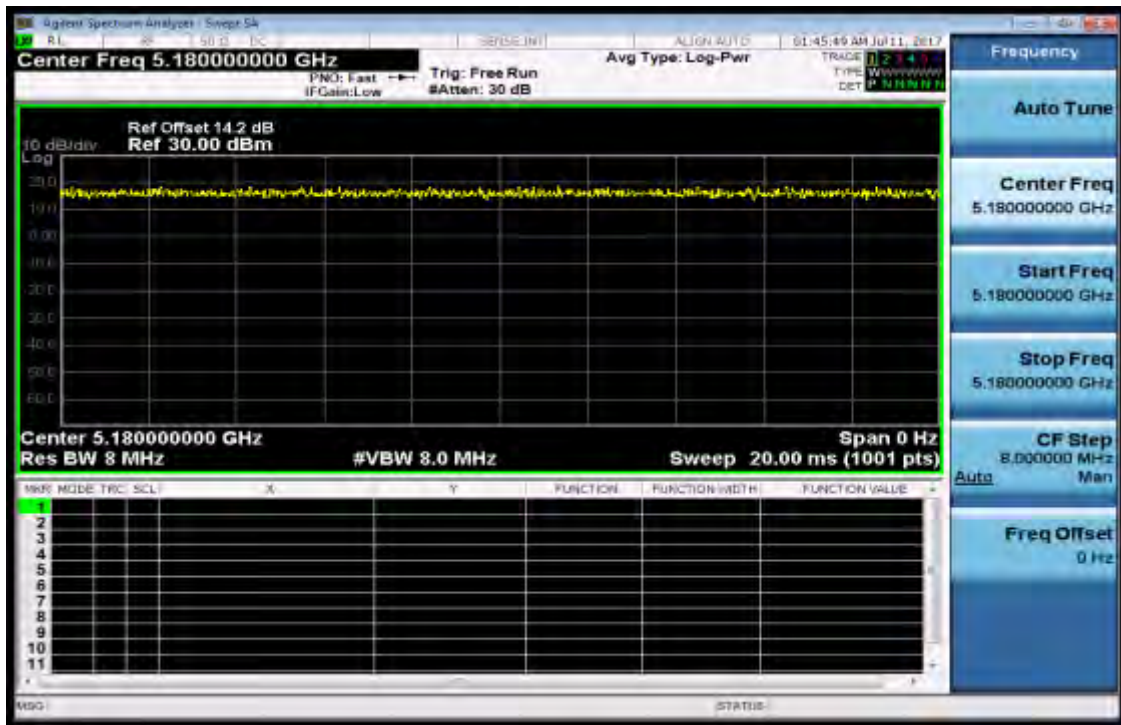
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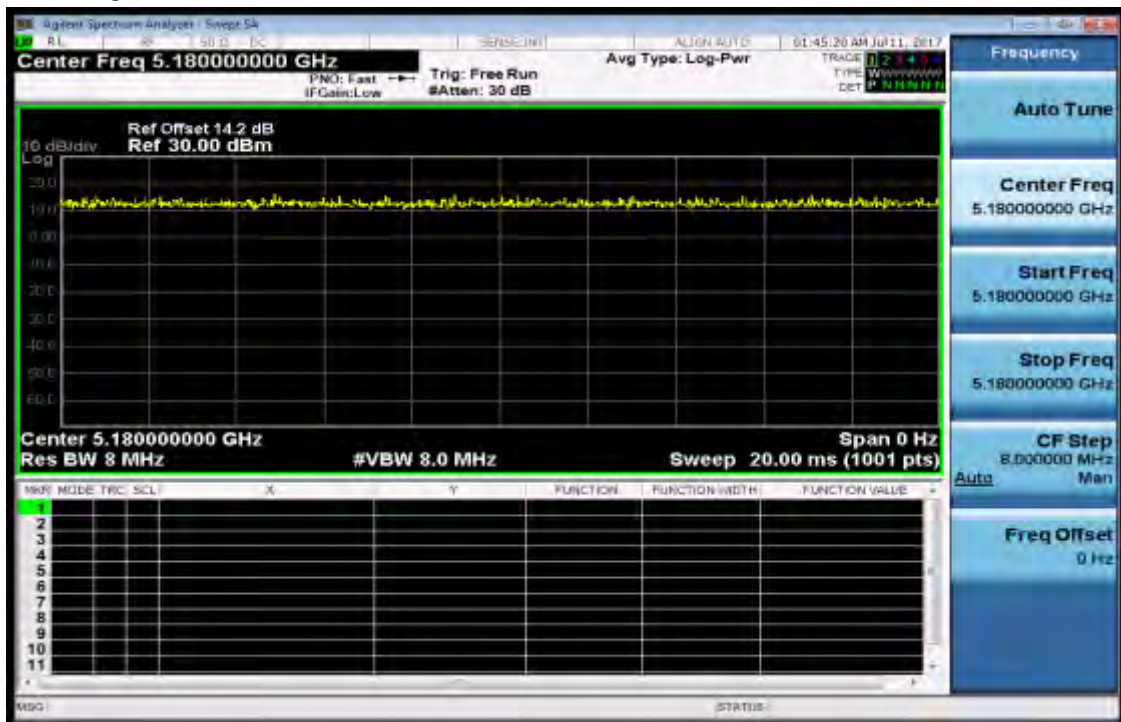
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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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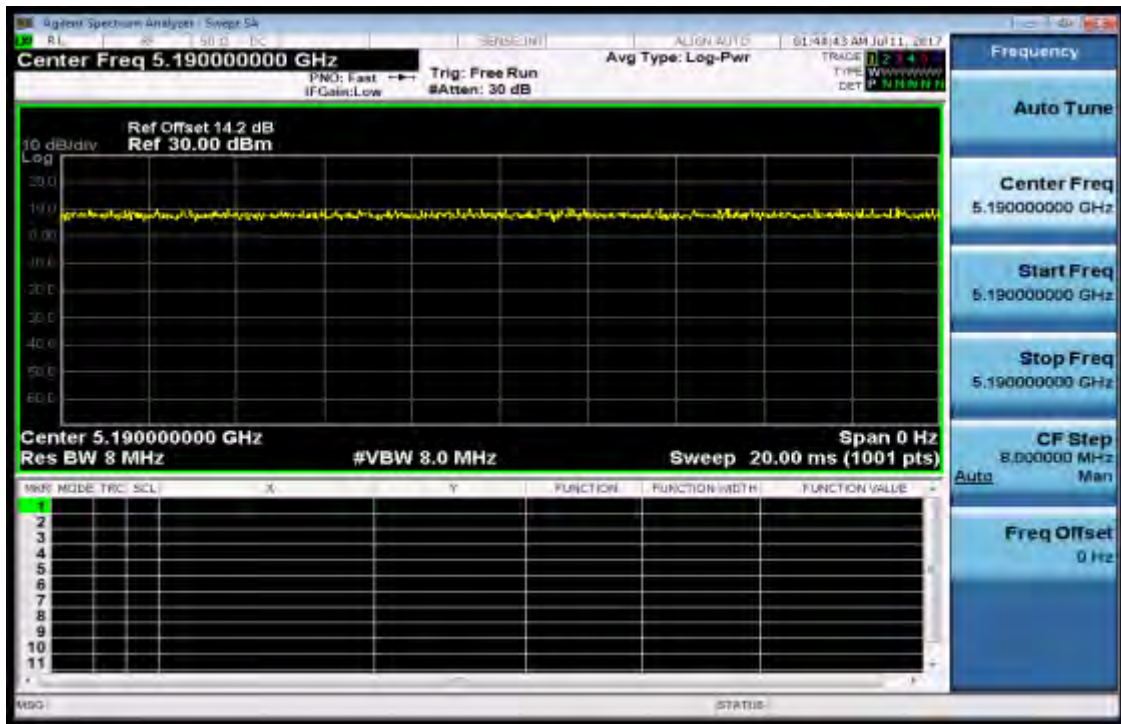
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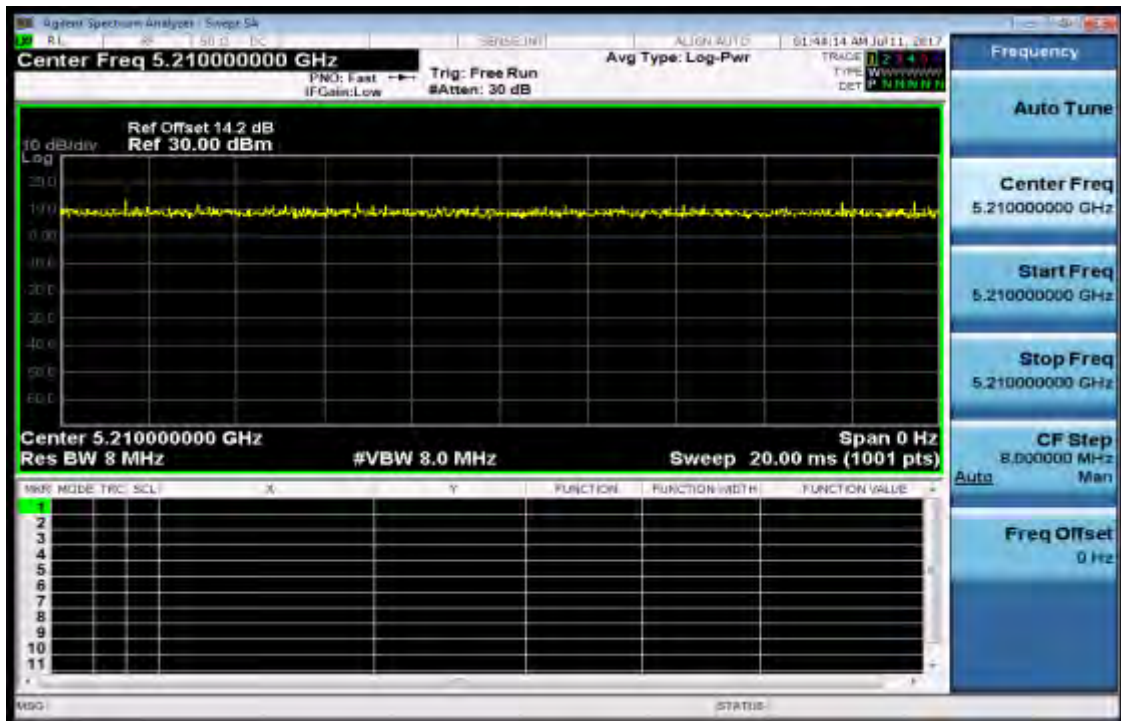
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802.11n HT 40



802.11 ac VHT 80



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8. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

8.2 Measurement Procedure

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

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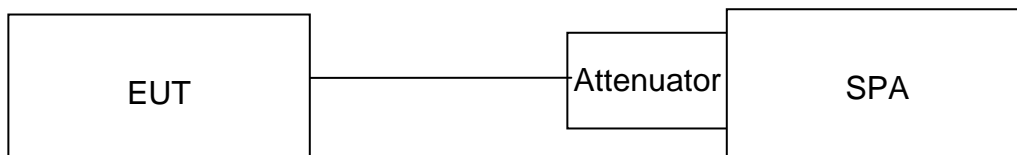
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8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Power Meter	Anritsu	ML2496A	1326001	06/23/2017	06/22/2018
Power Sensor	Anritsu	MA2411B	1315048	06/23/2017	06/22/2018
Power Sensor	Anritsu	MA2411B	1315049	06/23/2017	06/22/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

8.4 Test Set-up



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8.5 Measurement Result

26dB Bandwidth

802.11a_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.59	12.920
5220	19.68	12.940
5240	19.99	13.008
5260	19.61	12.925
5300	19.78	12.962
5320	19.55	12.911
5500	19.81	12.969
5580	19.77	12.960
5700	19.72	12.949

802.11a_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.81	12.969
5220	19.62	12.927
5240	19.87	12.982
5260	19.61	12.925
5300	19.72	12.949
5320	19.77	12.960
5500	19.82	12.971
5580	19.63	12.929
5700	19.71	12.947

802.11n_HT20_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.33	13.081
5220	20.08	13.028
5240	19.98	13.006
5260	20.13	13.038
5300	19.88	12.984
5320	20.22	13.058
5500	20.33	13.081
5580	19.77	12.960
5700	20.05	13.021

802.11n_HT20_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.98	13.006
5220	19.96	13.002
5240	20.06	13.023
5260	20.01	13.012
5300	20.30	13.075
5320	19.92	12.993
5500	19.98	13.006
5580	19.91	12.991
5700	19.83	12.973

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802.11n_HT40_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.17	16.039
5230	40.18	16.040
5270	40.39	16.063
5310	40.13	16.035
5510	40.28	16.051
5550	40.46	16.070
5670	40.23	16.046

802.11n_HT40_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.41	16.065
5230	40.22	16.044
5270	40.13	16.035
5310	40.34	16.057
5510	40.50	16.075
5550	40.96	16.124
5670	40.50	16.075

802.11ac_VHT80_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.76	19.072
5290	81.47	19.110
5530	81.39	19.106
5610	81.39	19.106

802.11ac_VHT80_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.47	19.110
5290	81.26	19.099
5530	81.00	19.085
5610	81.23	19.097

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

802.11a_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.56	12.191
5785	16.58	12.195
5825	16.54	12.185

802.11a_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.54	12.186
5785	16.40	12.147
5825	16.52	12.181

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.68	12.475
5785	17.70	12.480
5825	17.66	12.470

802.11n_HT20_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.66	12.470
5785	17.66	12.470
5825	17.66	12.471

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.42	15.613
5795	36.43	15.614

802.11n_HT40_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.39	15.610
5795	36.39	15.610

802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	76.45	18.834

802.11ac_VHT80_Aux1

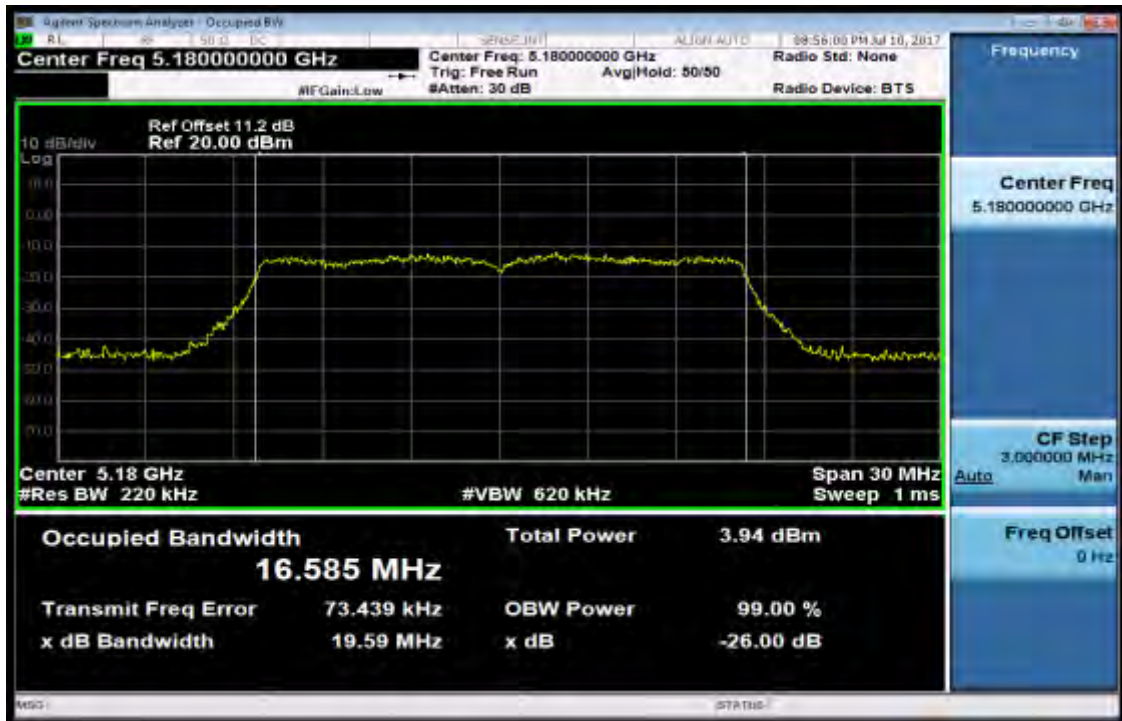
Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	76.49	18.836

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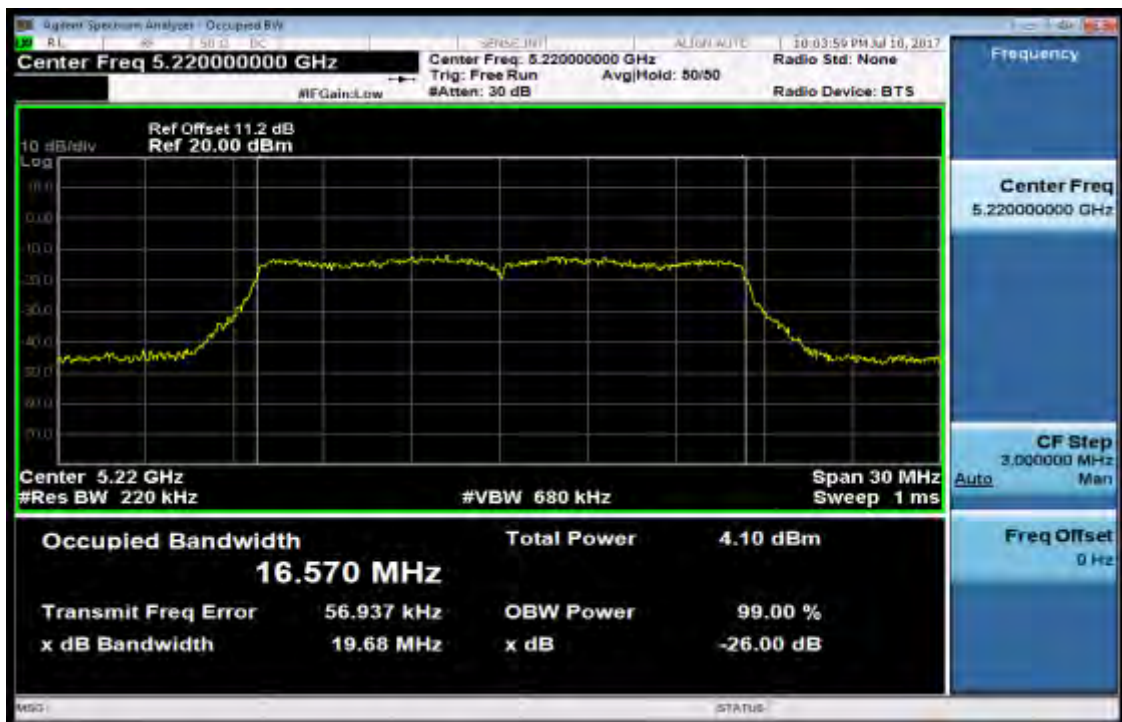
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802.11a, 5150~5250 MHz (Main)
26dB Band Width Test Data CH-Low (5180MHz)



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



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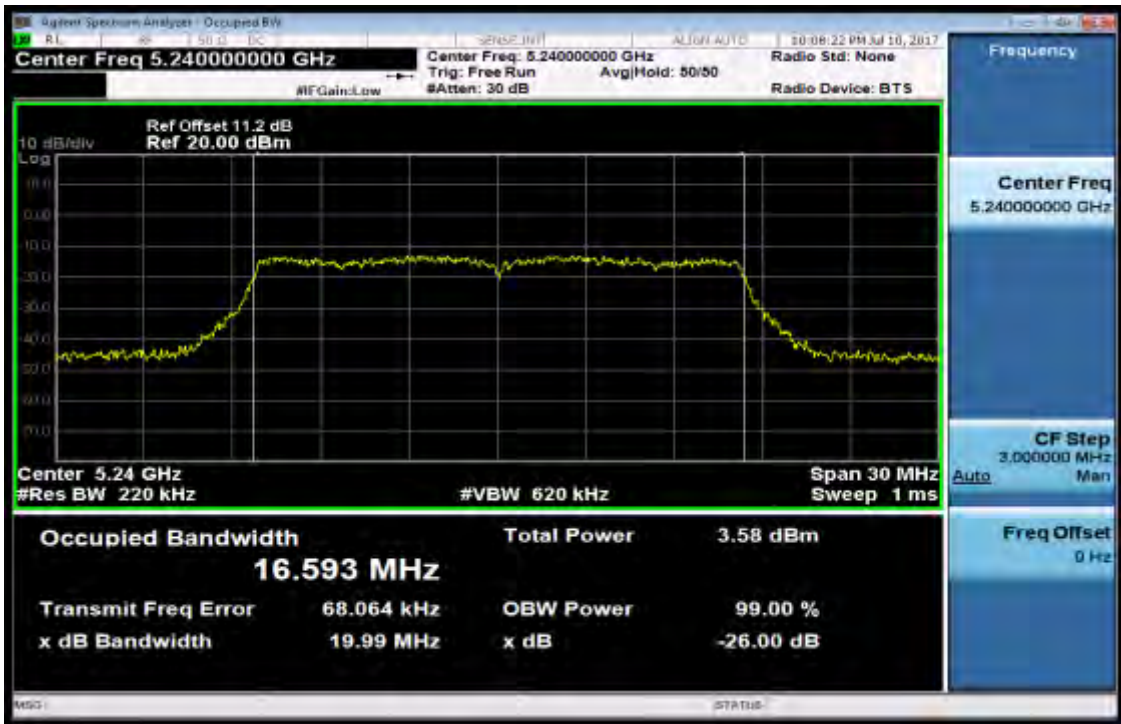
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26dB Band Width Test Data CH-High (5240MHz)



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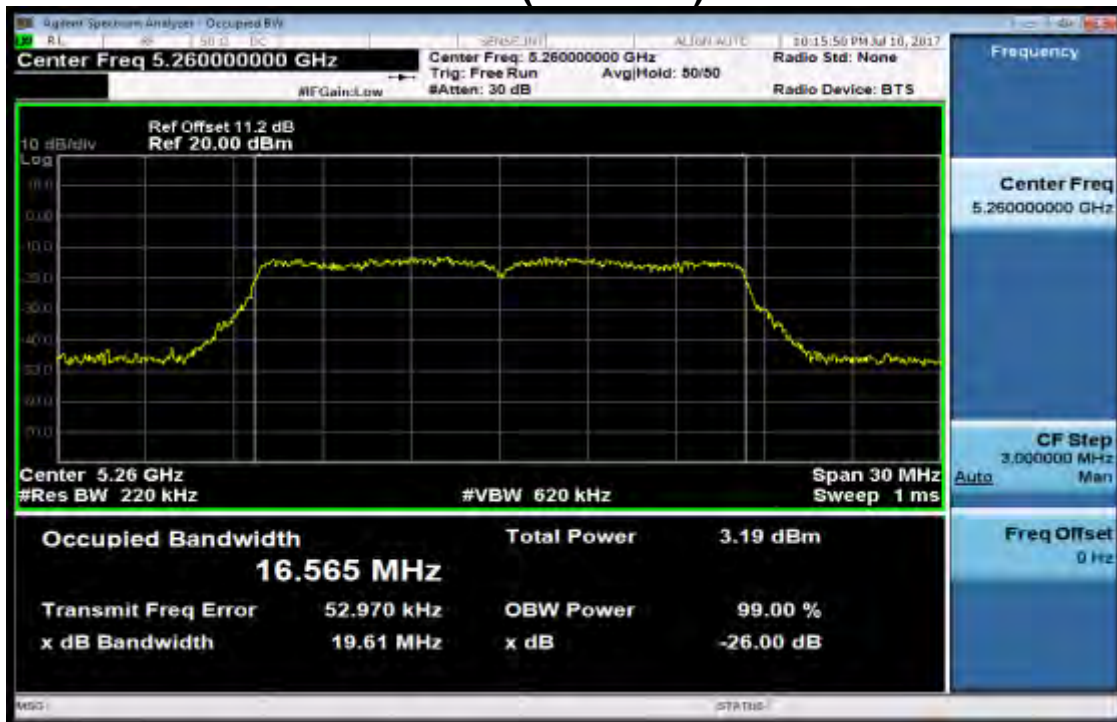
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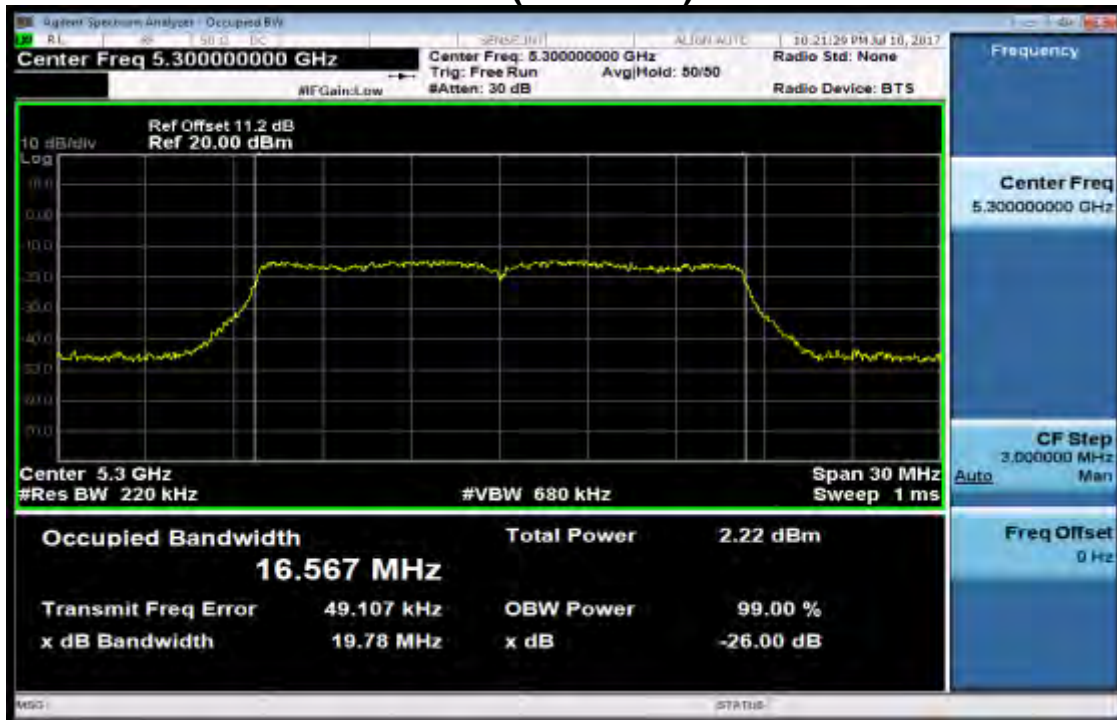
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802.11a, 5250~5350 MHz (Main)
26dB Band Width Test Data CH-Low (5260MHz)



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



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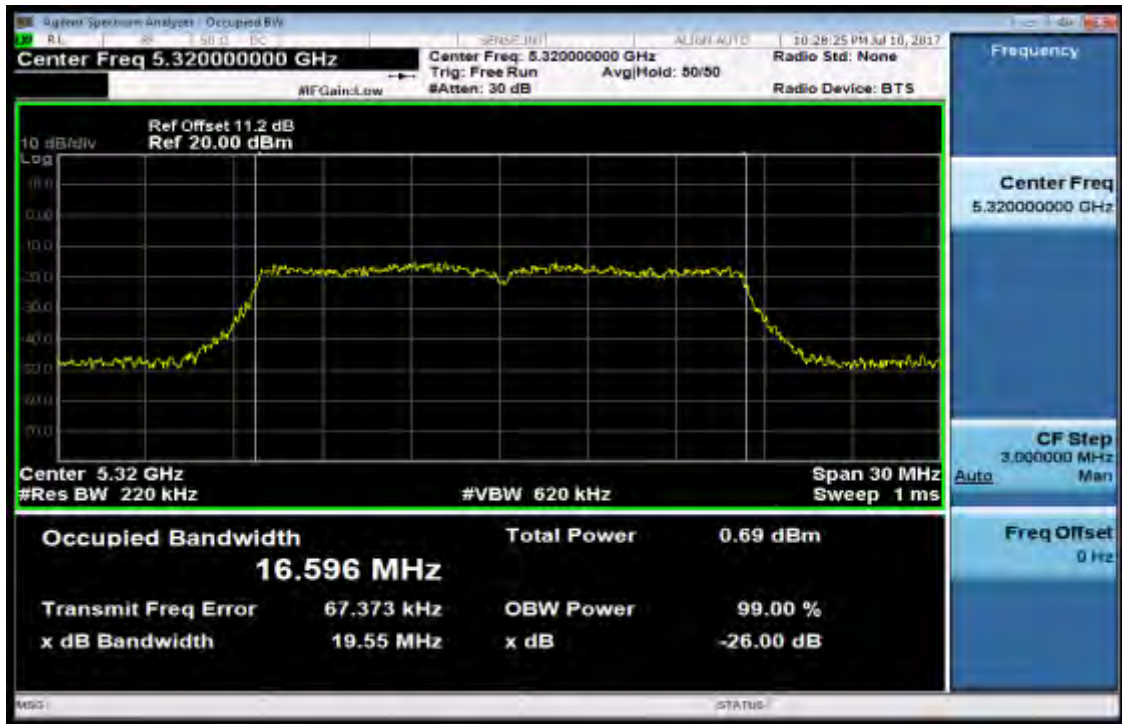
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26dB Band Width Test Data CH-High (5320MHz)



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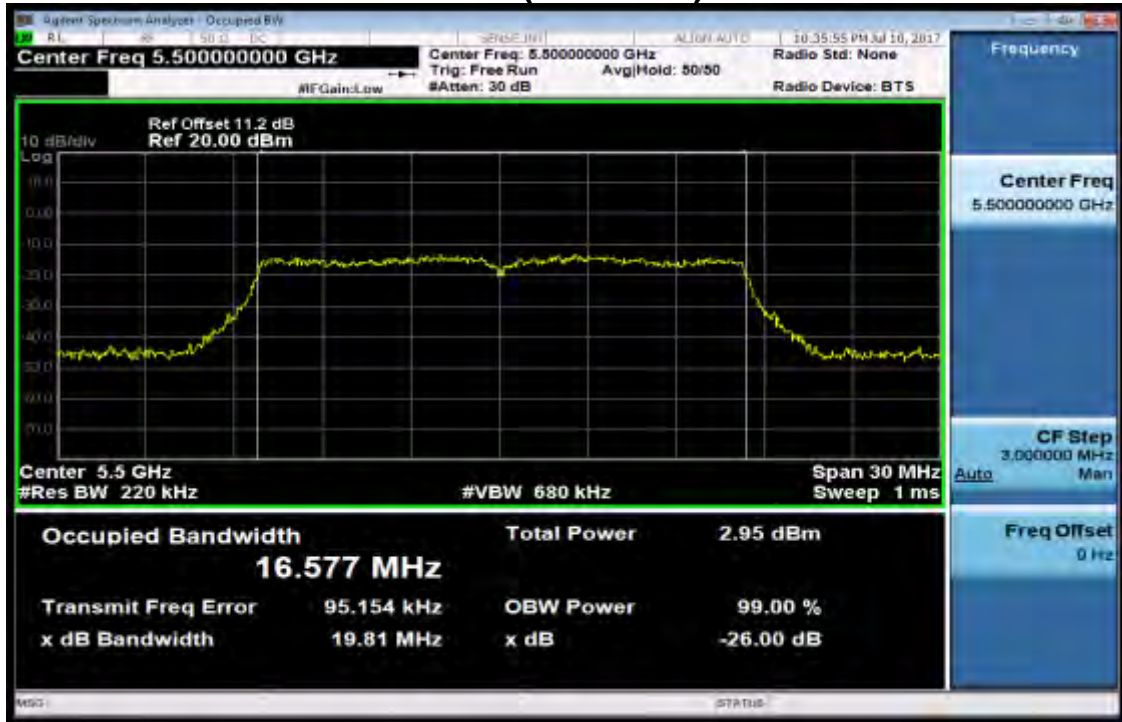
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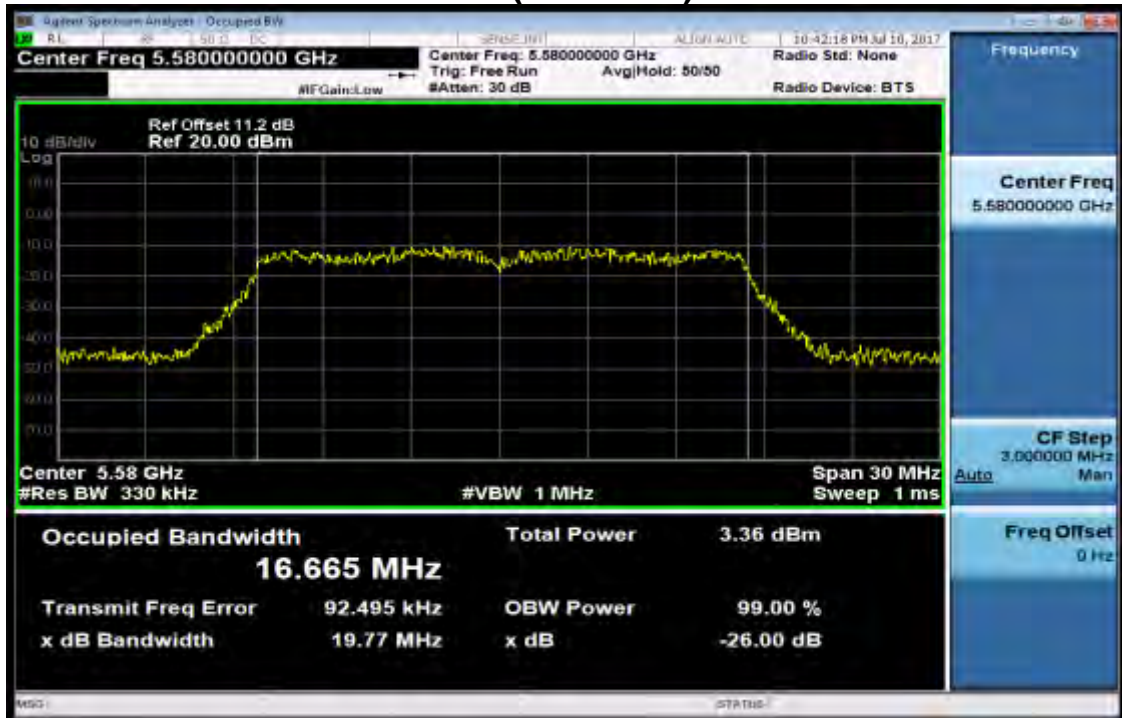
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802.11a, 5470~5725 MHz (Main)
26dB Band Width Test Data CH-Low (5500MHz)



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



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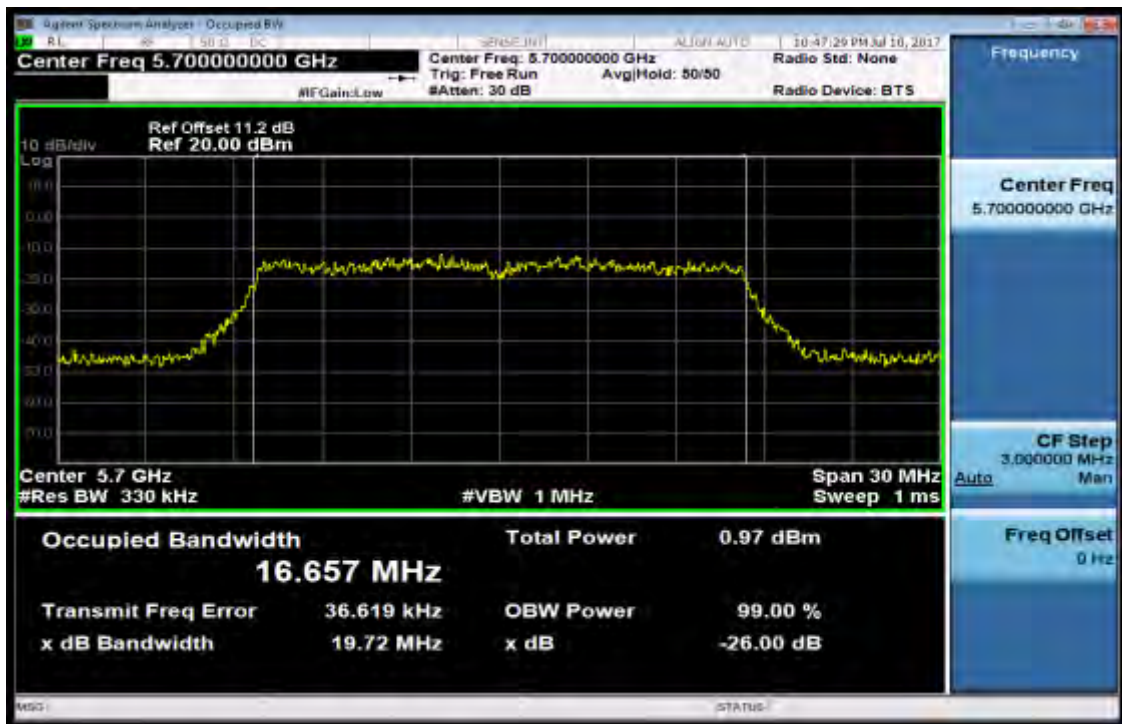
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26dB Band Width Test Data CH-High (5700MHz)



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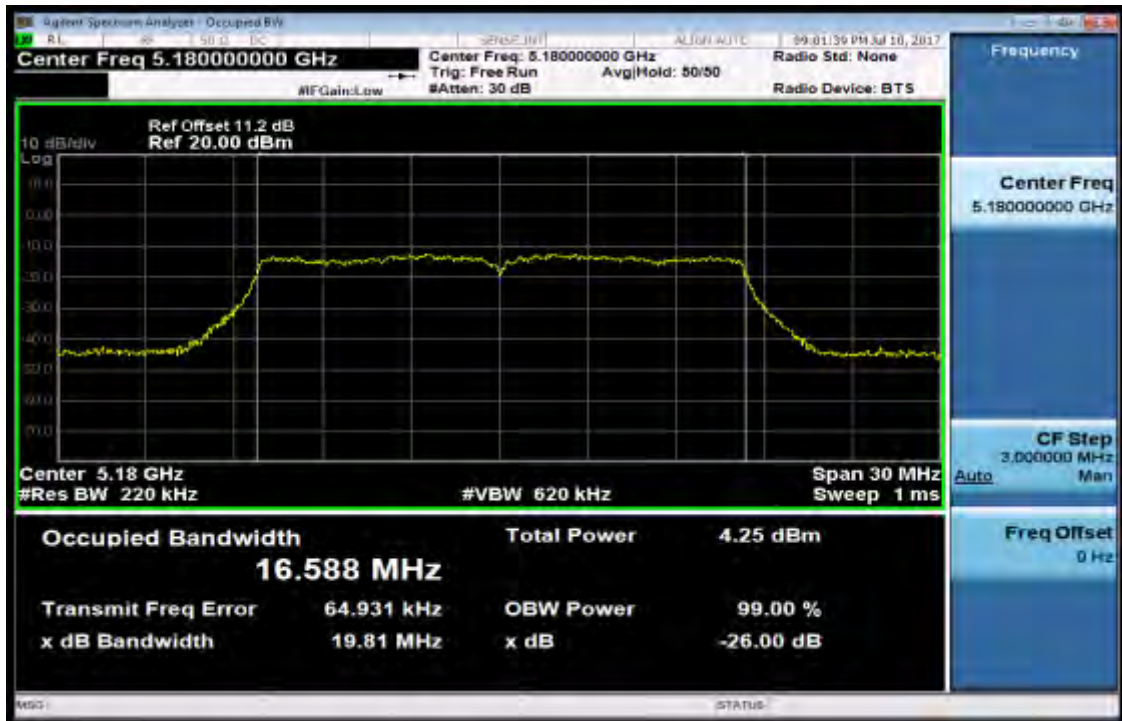
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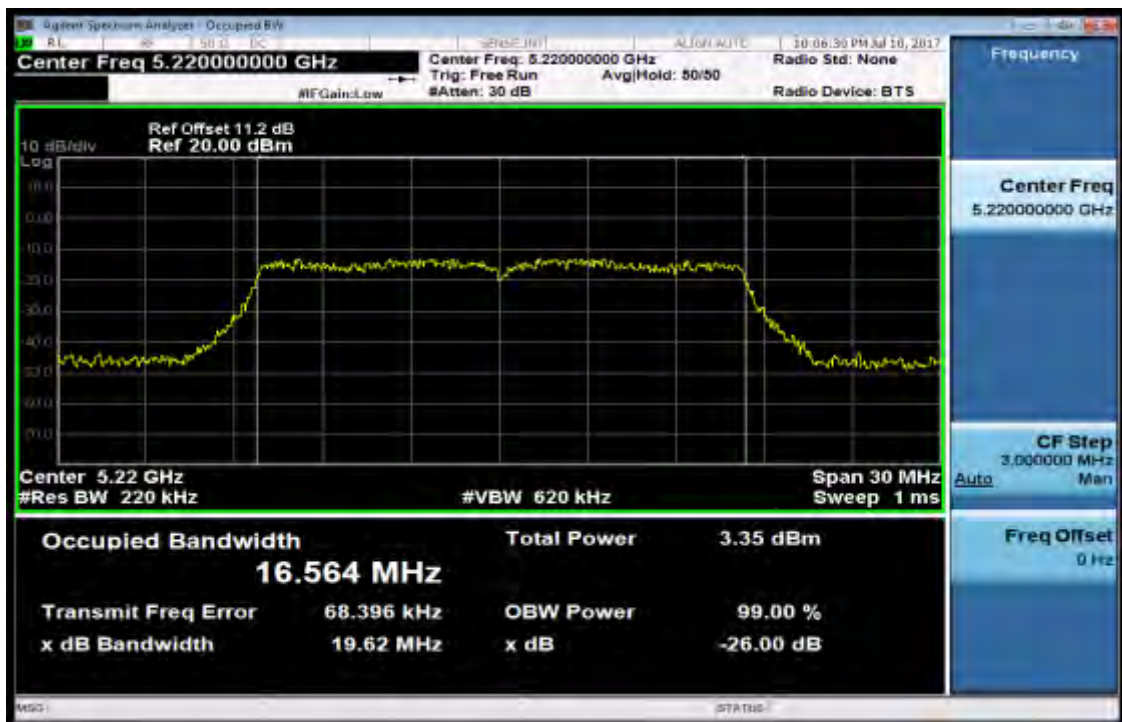
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802.11a, 5150~5250 MHz (Aux)
26dB Band Width Test Data CH-Low (5180MHz)



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



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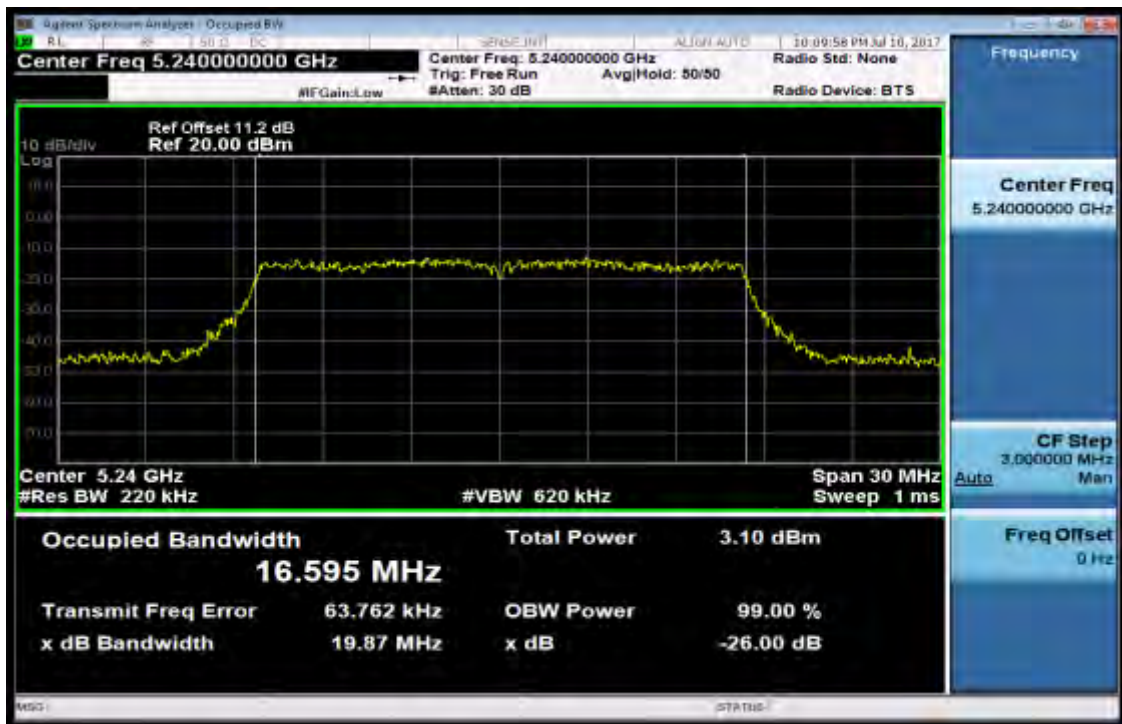
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26dB Band Width Test Data CH-High (5240MHz)



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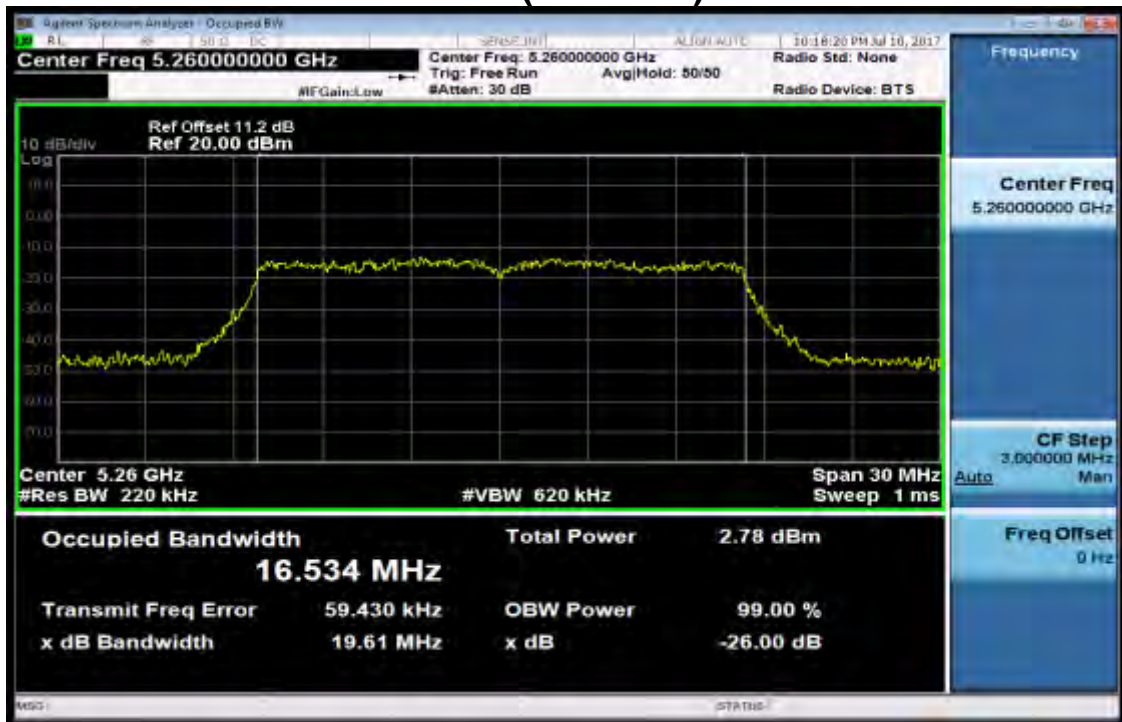
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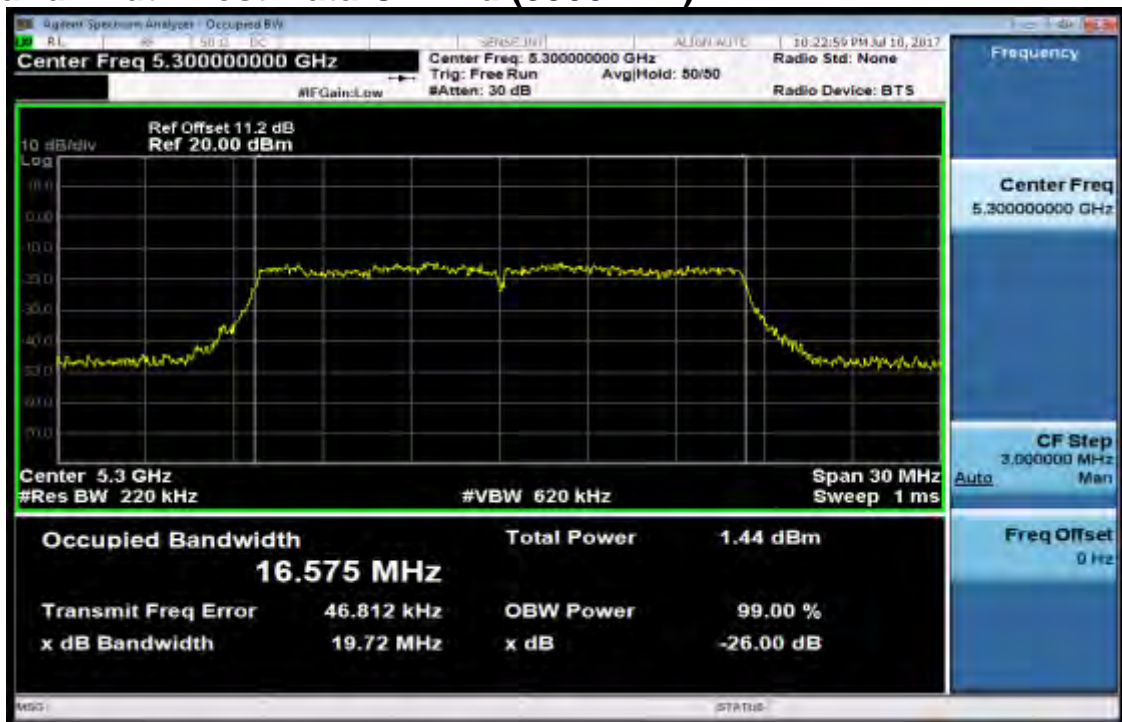
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802.11a, 5250~5350 MHz (Aux) 26dB Band Width Test Data CH-Low (5260MHz)



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



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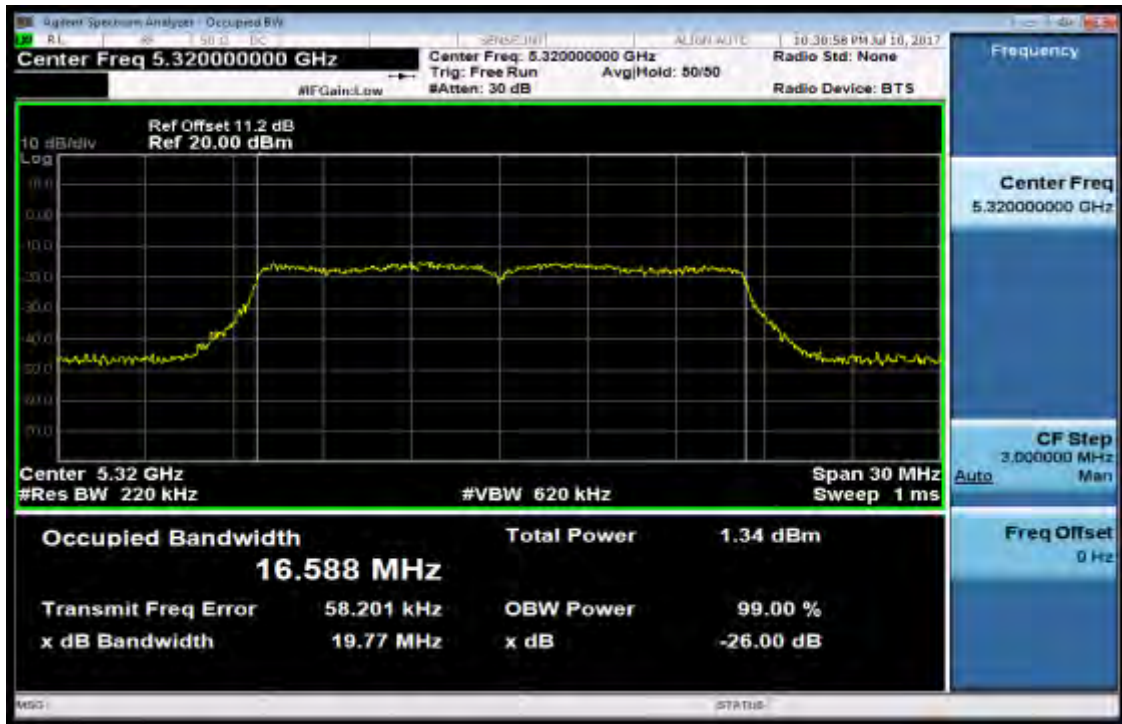
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26dB Band Width Test Data CH-High (5320MHz)



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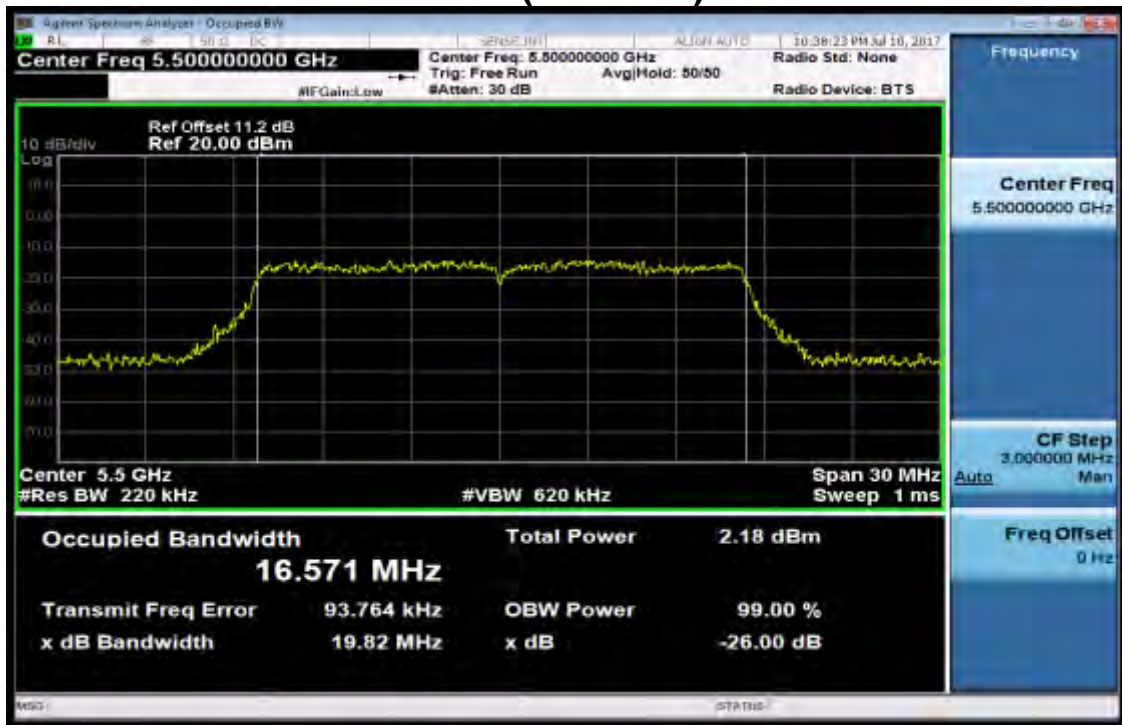
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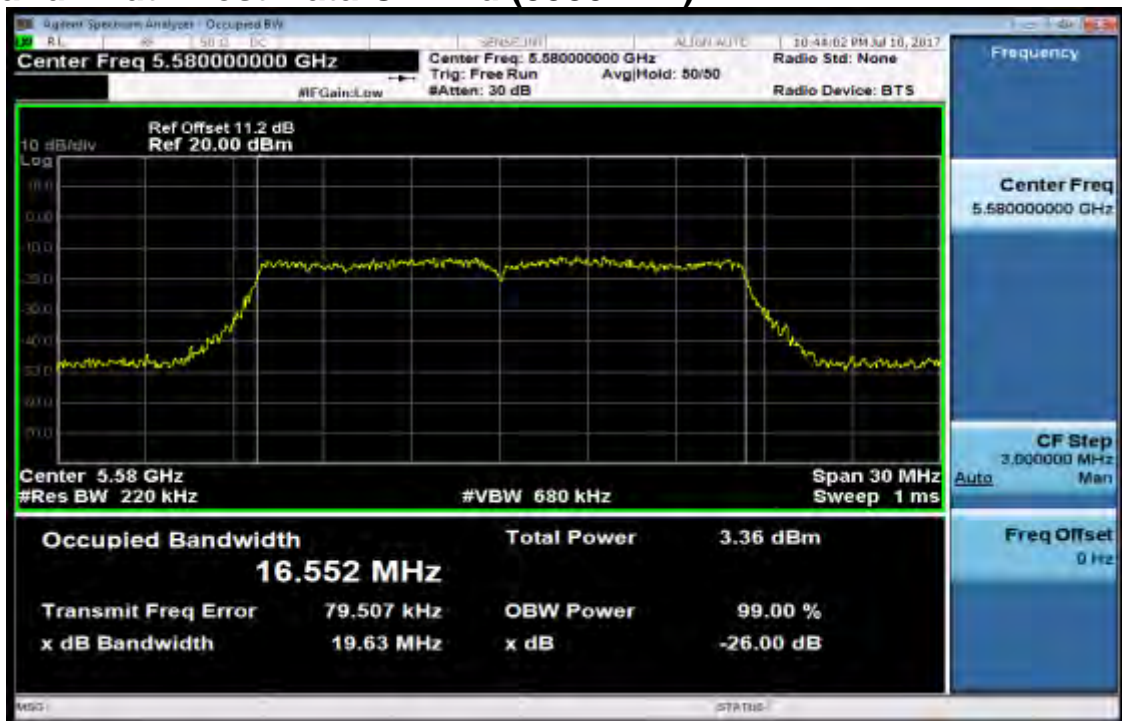
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**802.11a, 5470~5725 MHz (Aux)
26dB Band Width Test Data CH-Low (5500MHz)**



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



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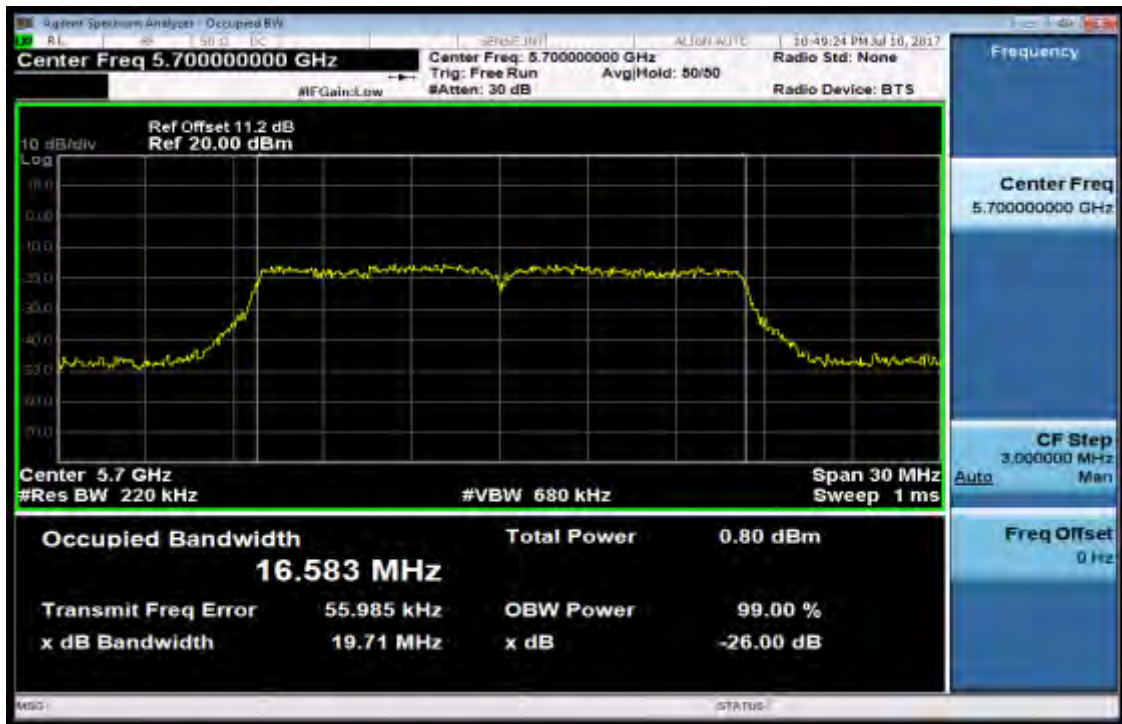
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26dB Band Width Test Data CH-High (5700MHz)



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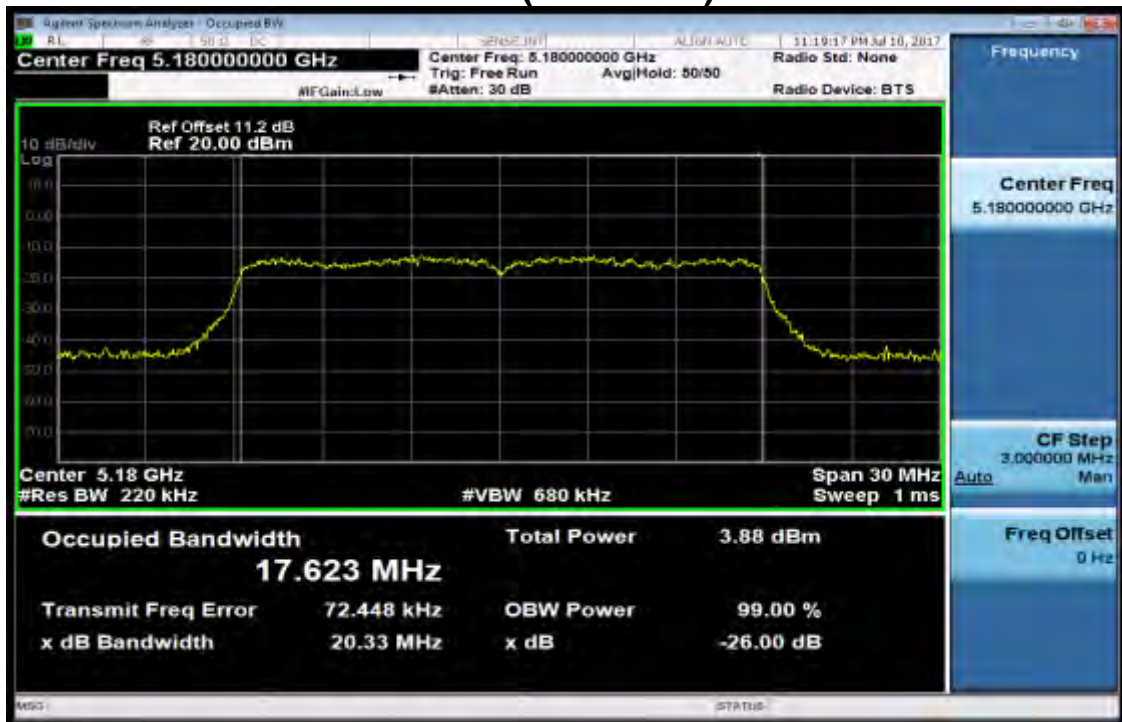
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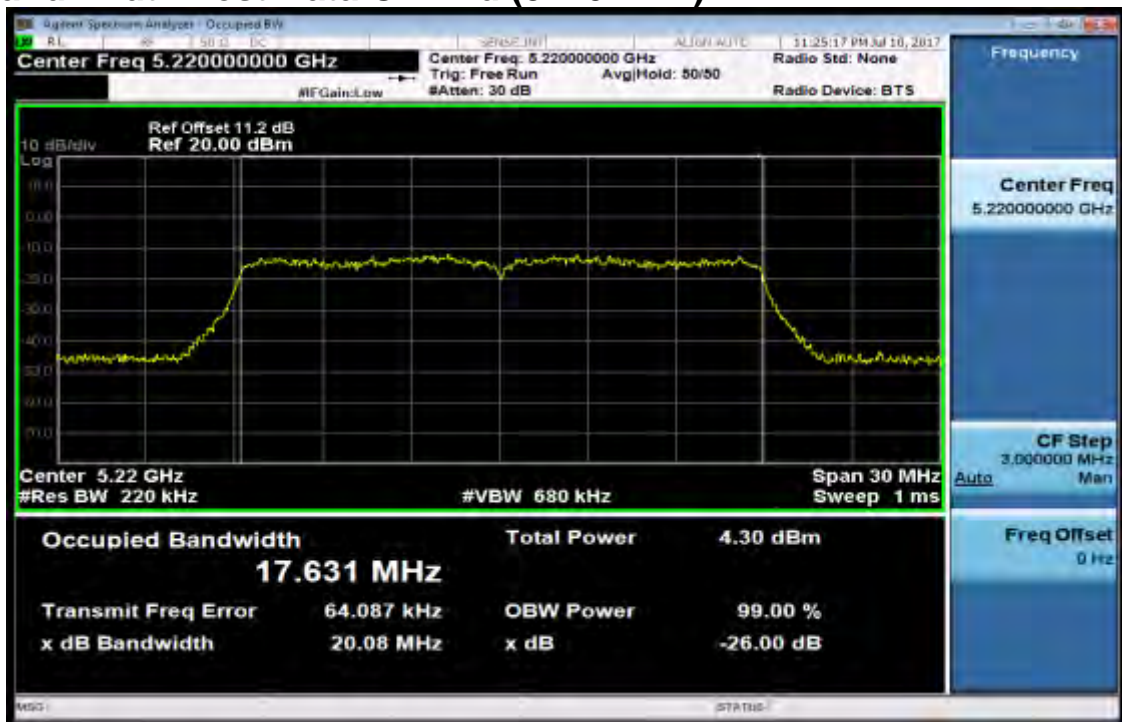
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802.11n HT20, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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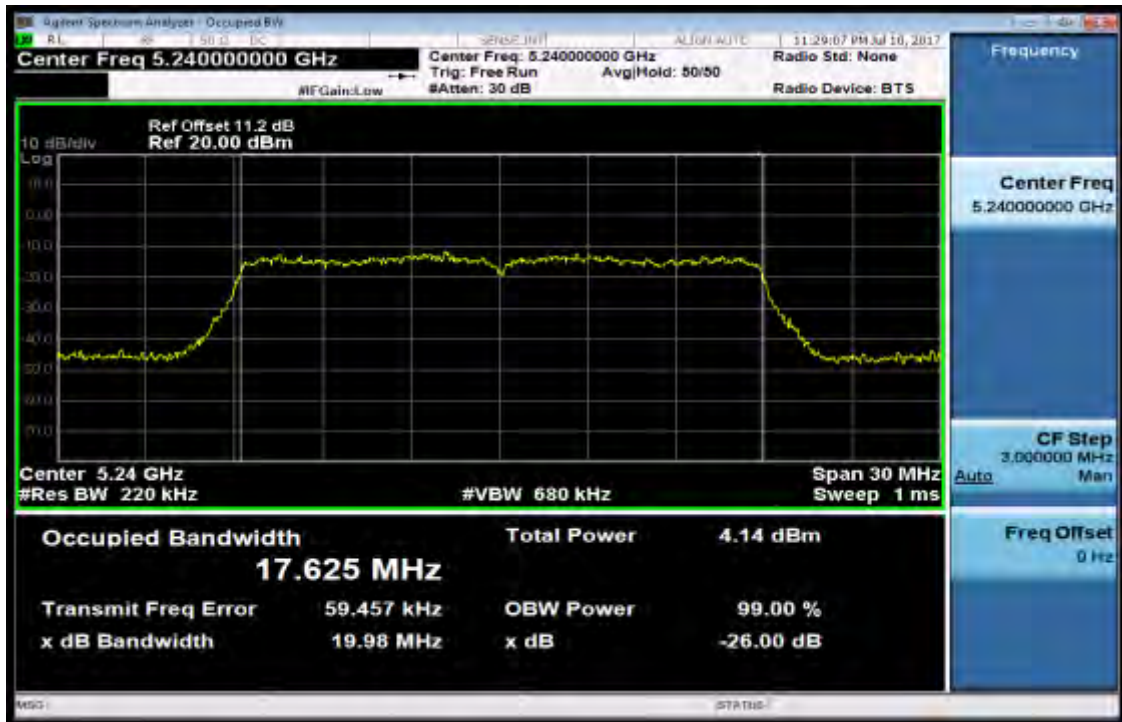
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26dB Band Width Test Data CH-High (5240 MHz)



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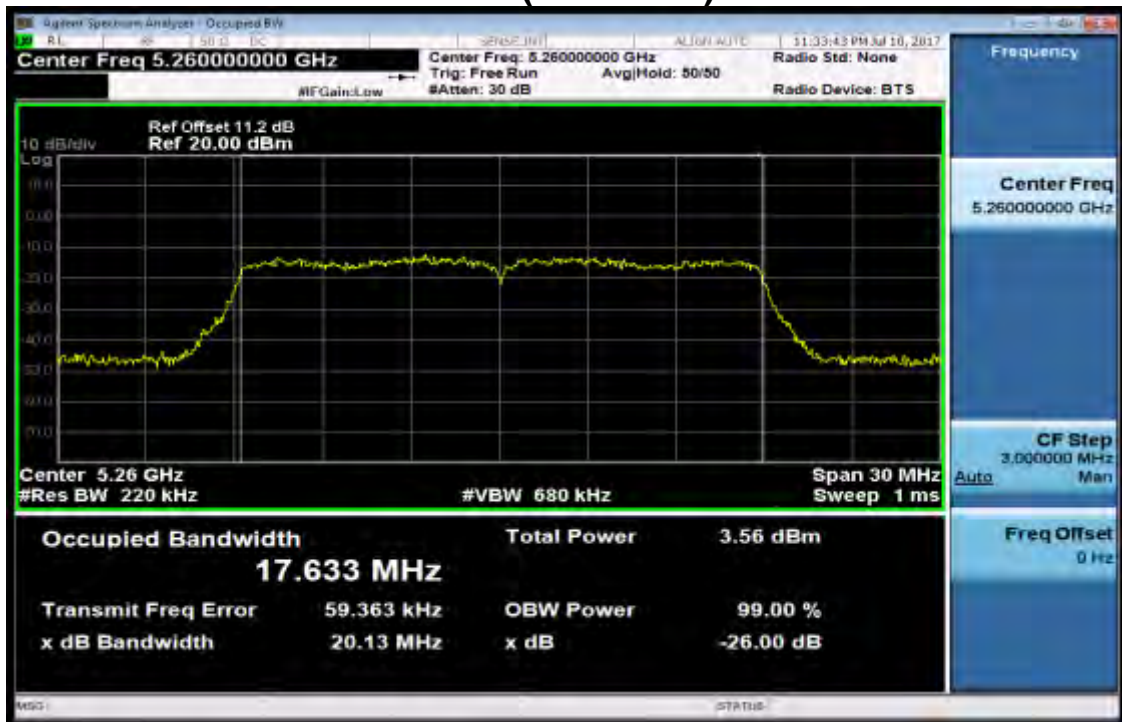
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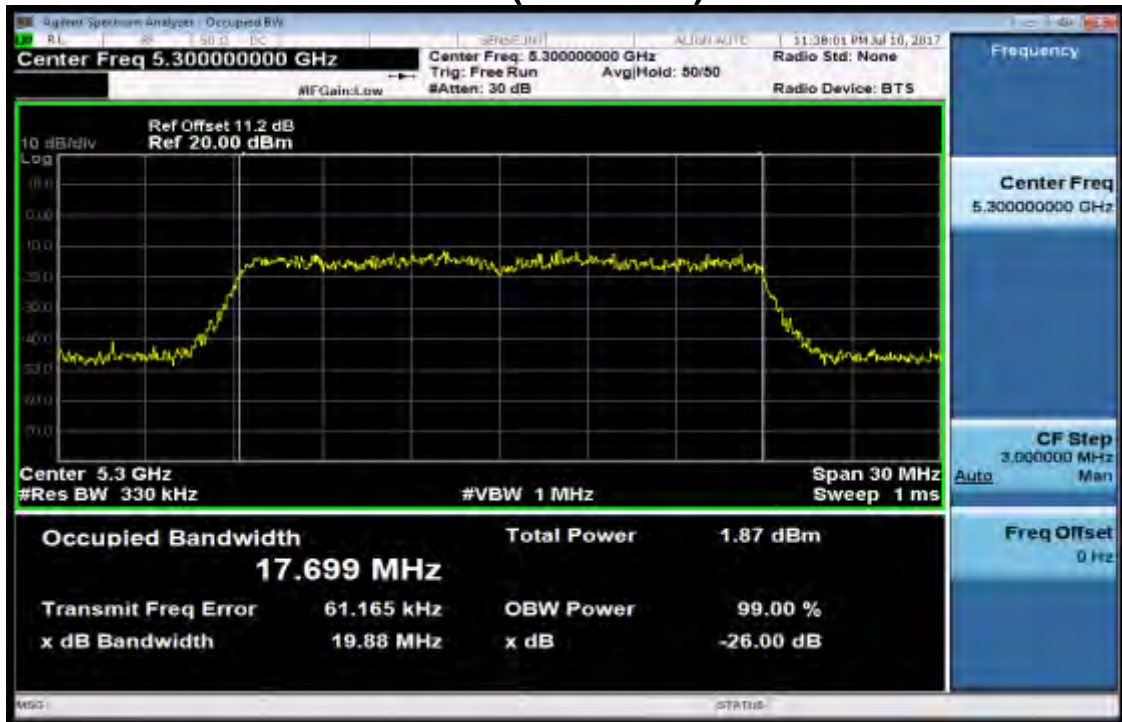
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802.11n HT20, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5260 MHz)



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



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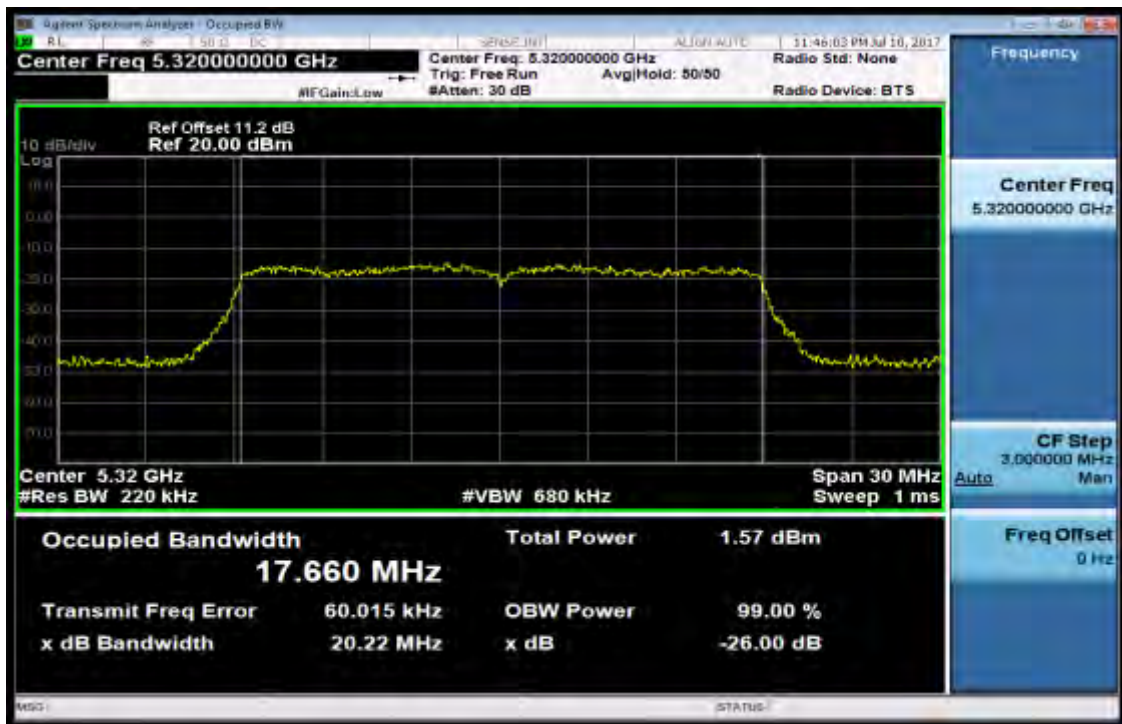
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26dB Band Width Test Data CH-High (5320 MHz)



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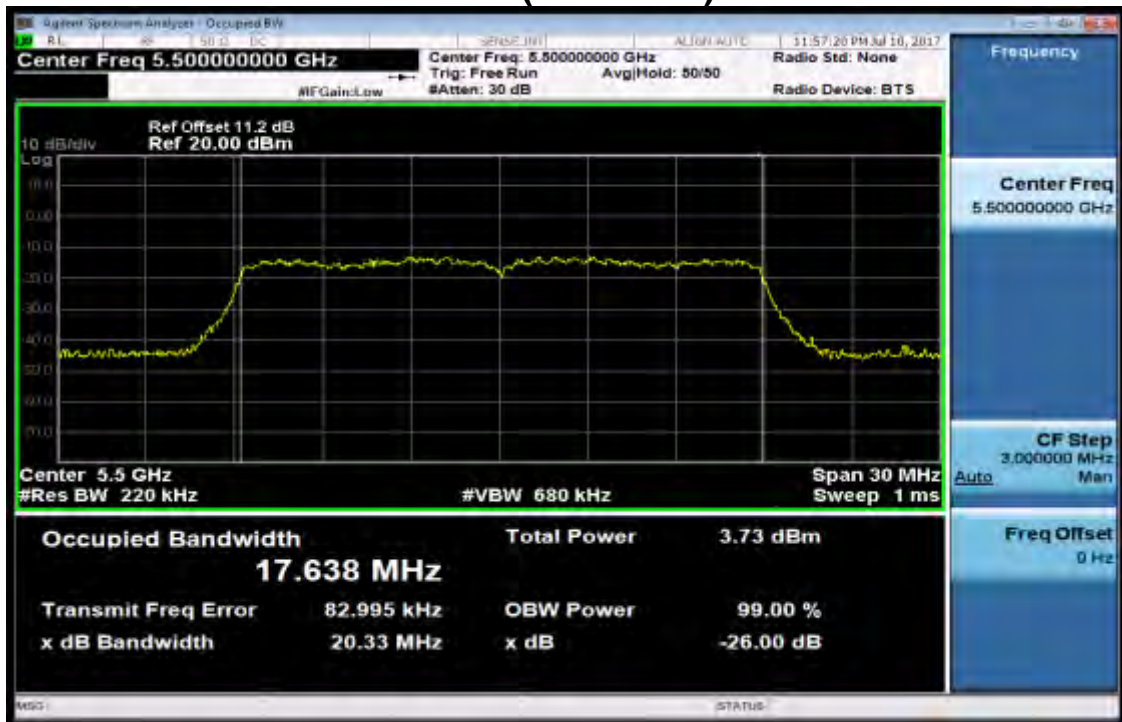
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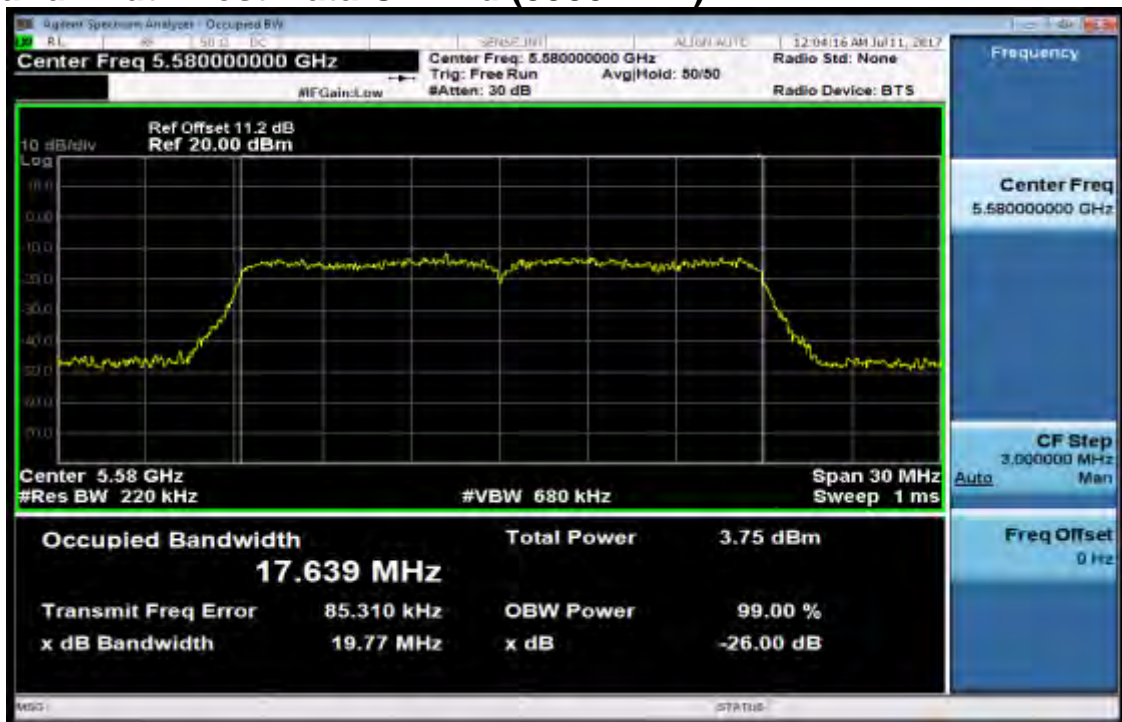
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802.11n HT20, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500 MHz)



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



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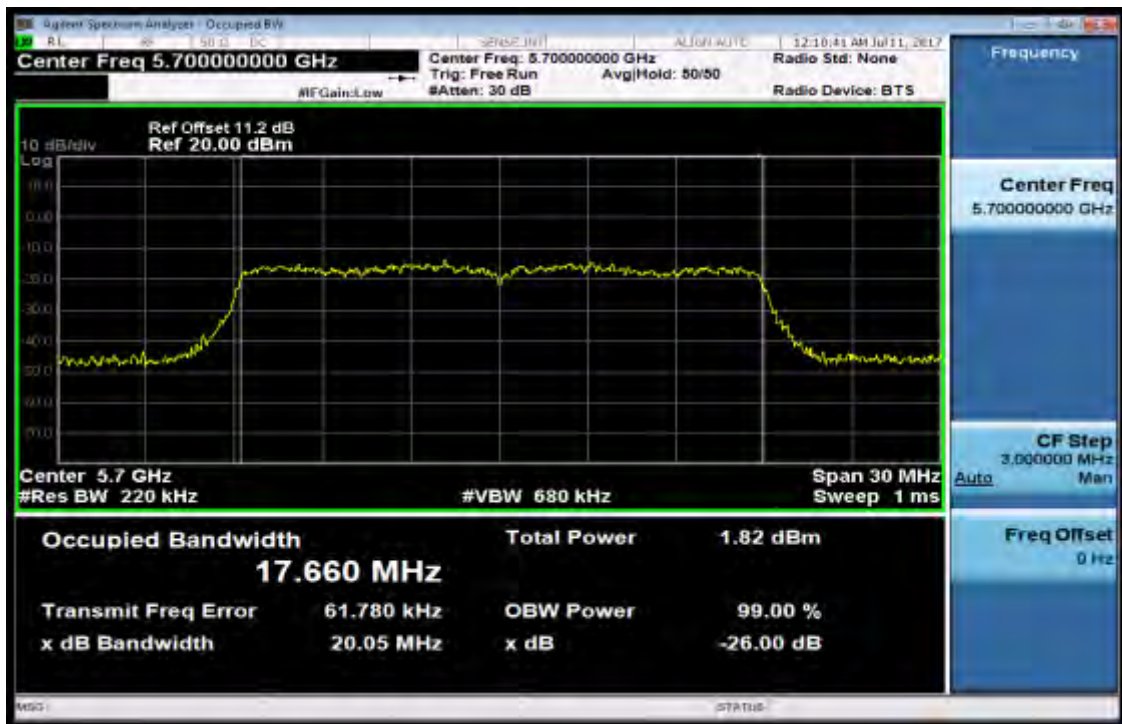
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26dB Band Width Test Data CH-High (5700 MHz)



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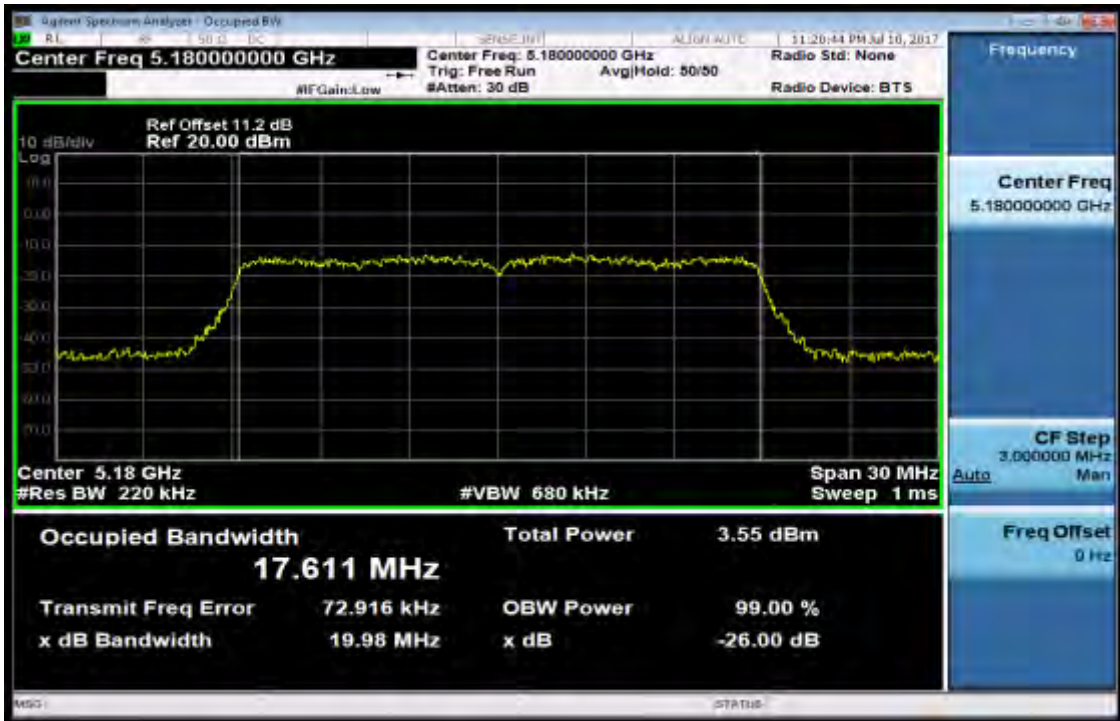
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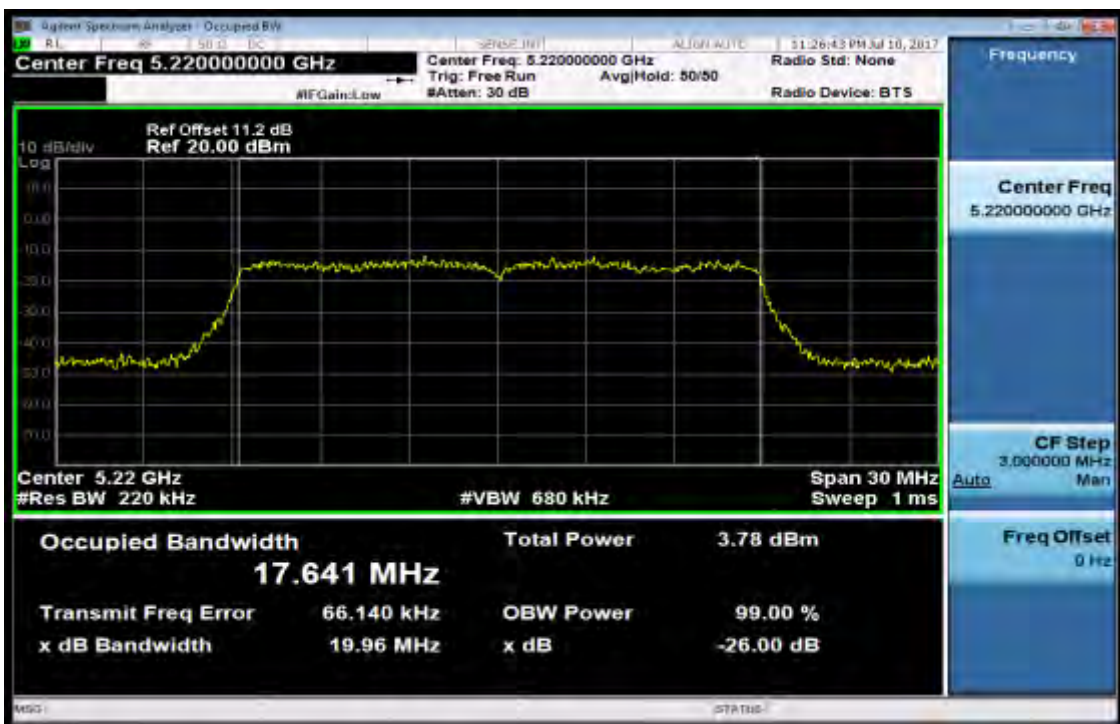
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**802.11n HT20, 5150~5250 MHz (Aux)
26dB Band Width Test Data CH-Low (5180 MHz)**



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



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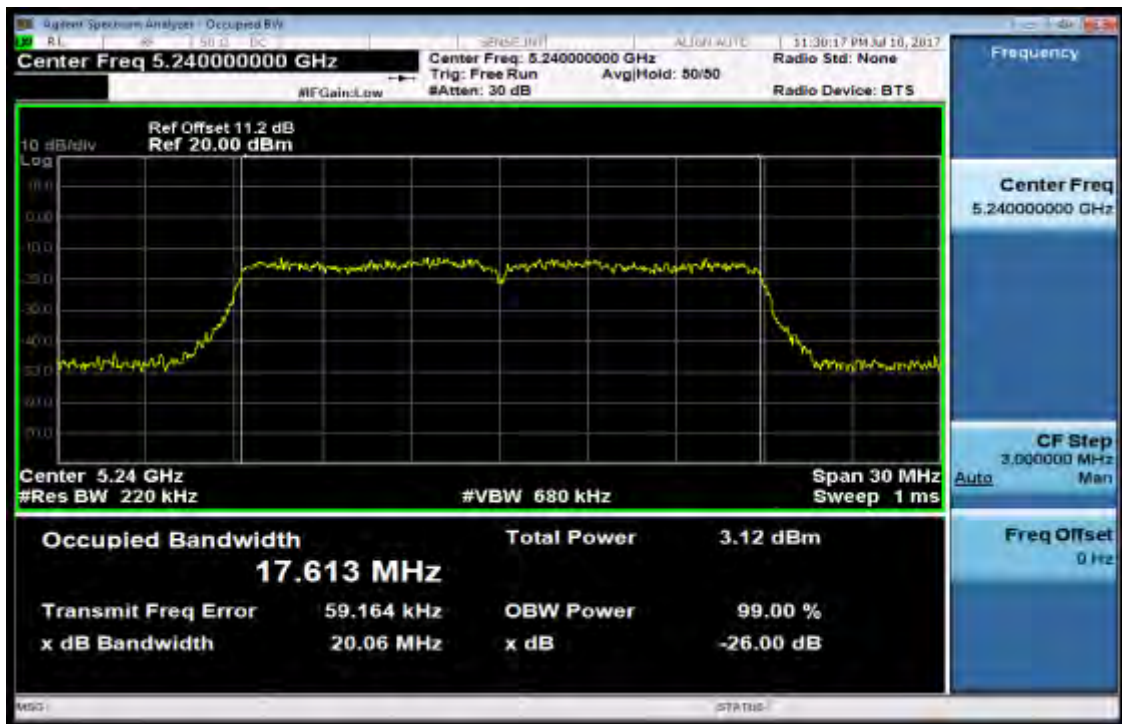
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26dB Band Width Test Data CH-High (5240 MHz)



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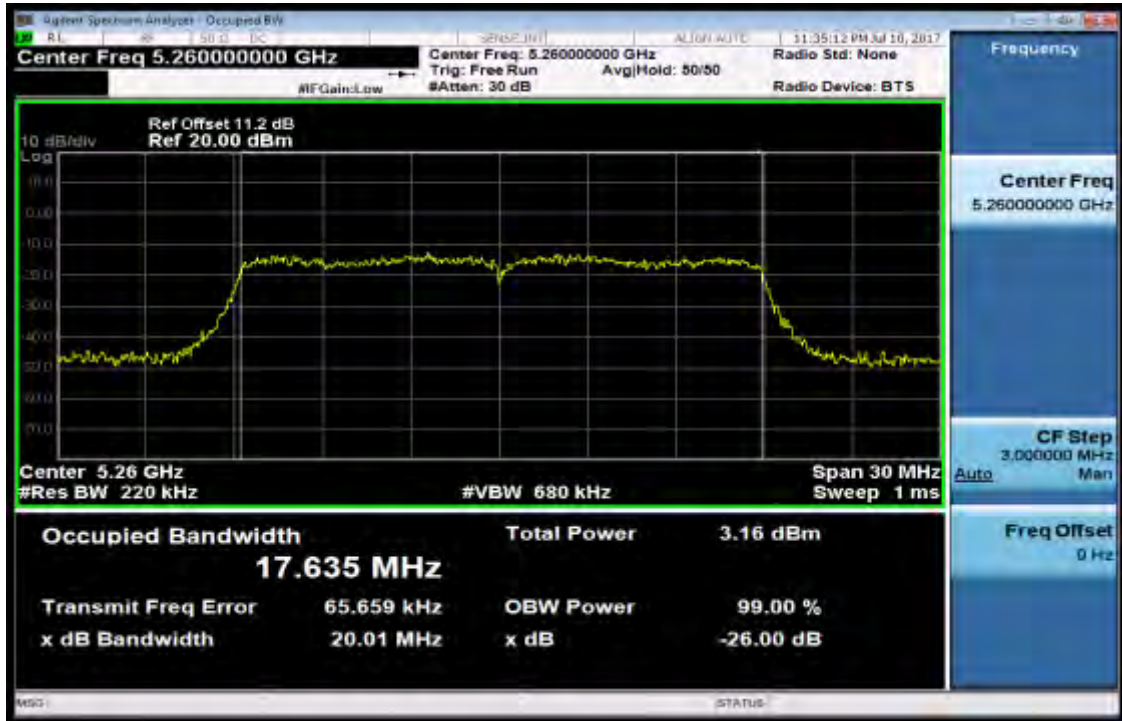
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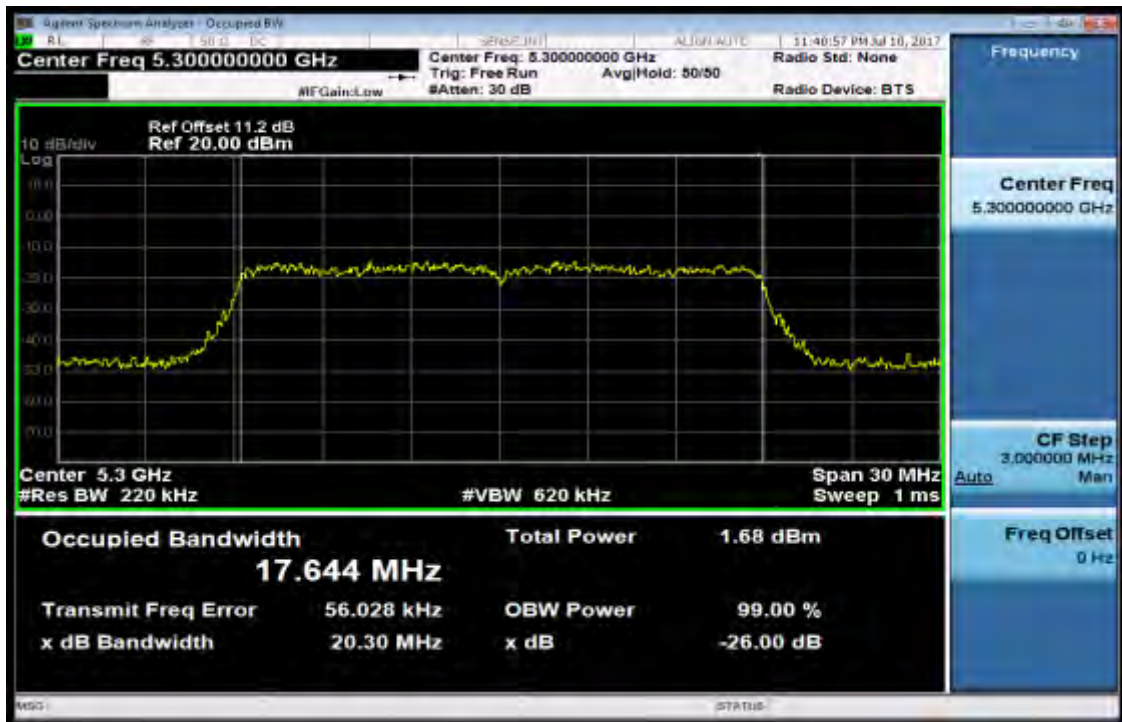
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**802.11n HT20, 5250~5350 MHz (Aux)
26dB Band Width Test Data CH-Low (5260 MHz)**



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



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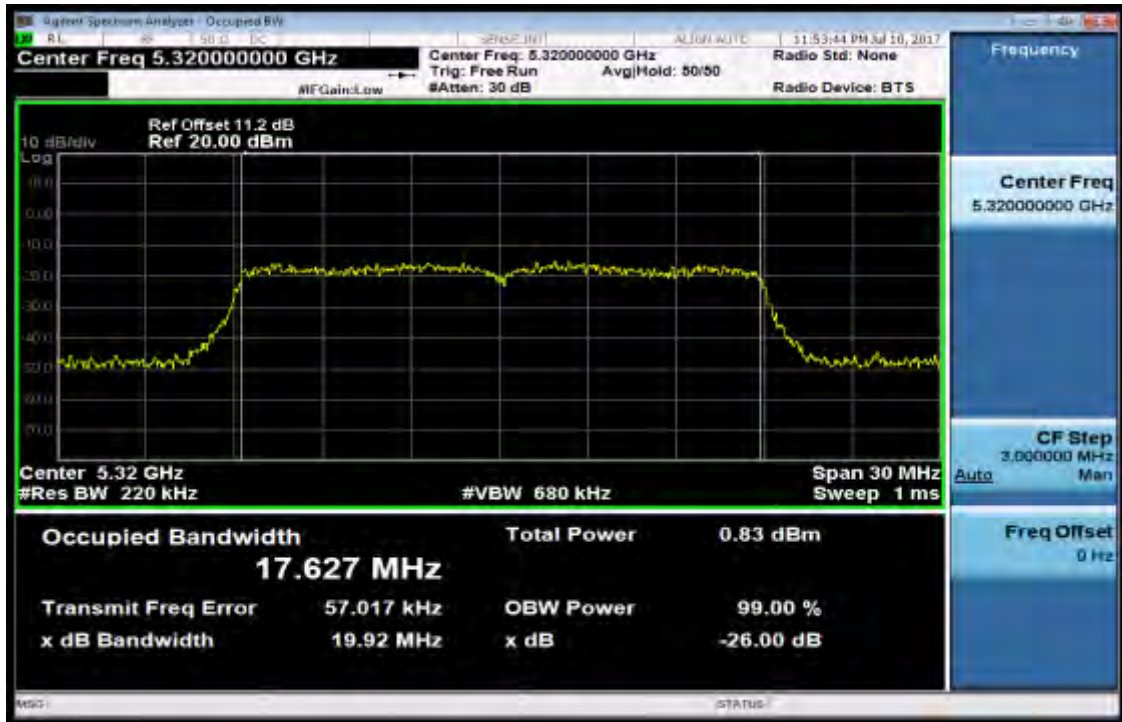
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26dB Band Width Test Data CH-High (5320 MHz)



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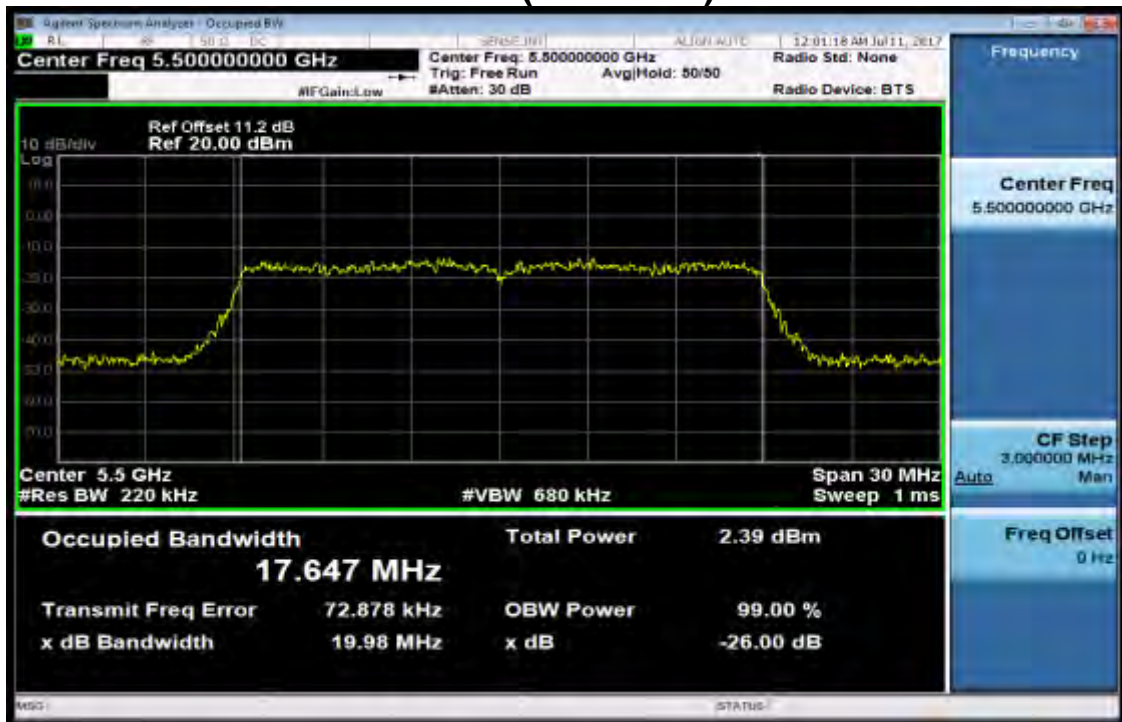
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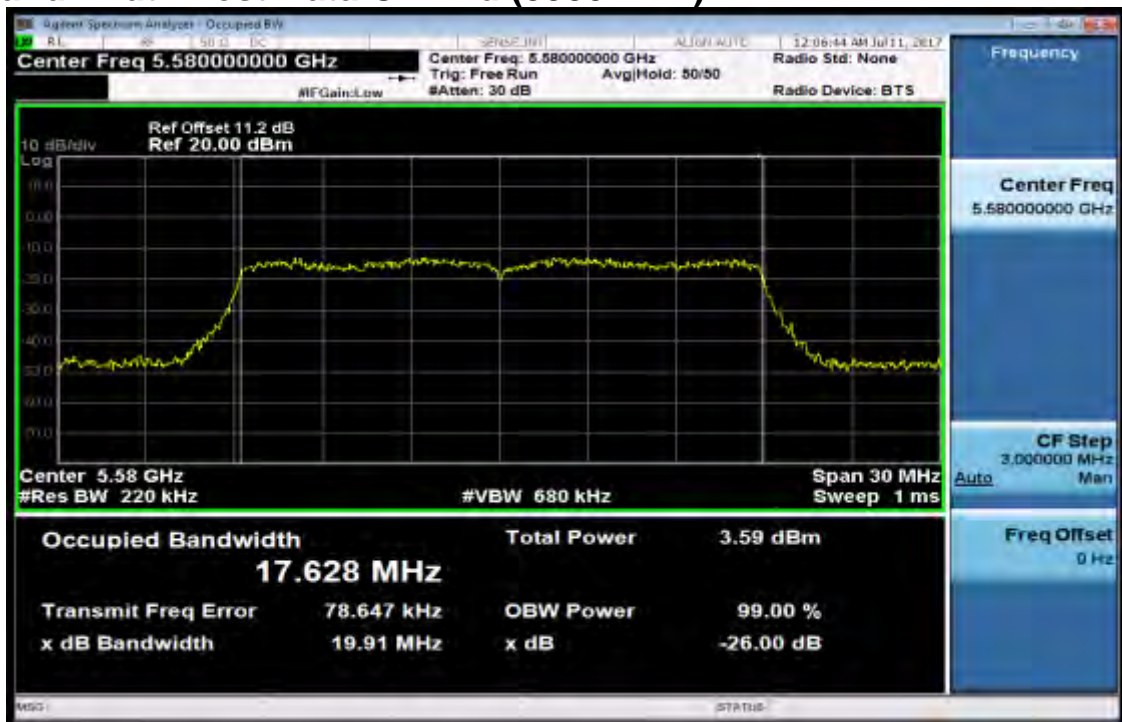
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802.11n HT20, 5470~5725 MHz (Aux) 26dB Band Width Test Data CH-Low (5500 MHz)



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



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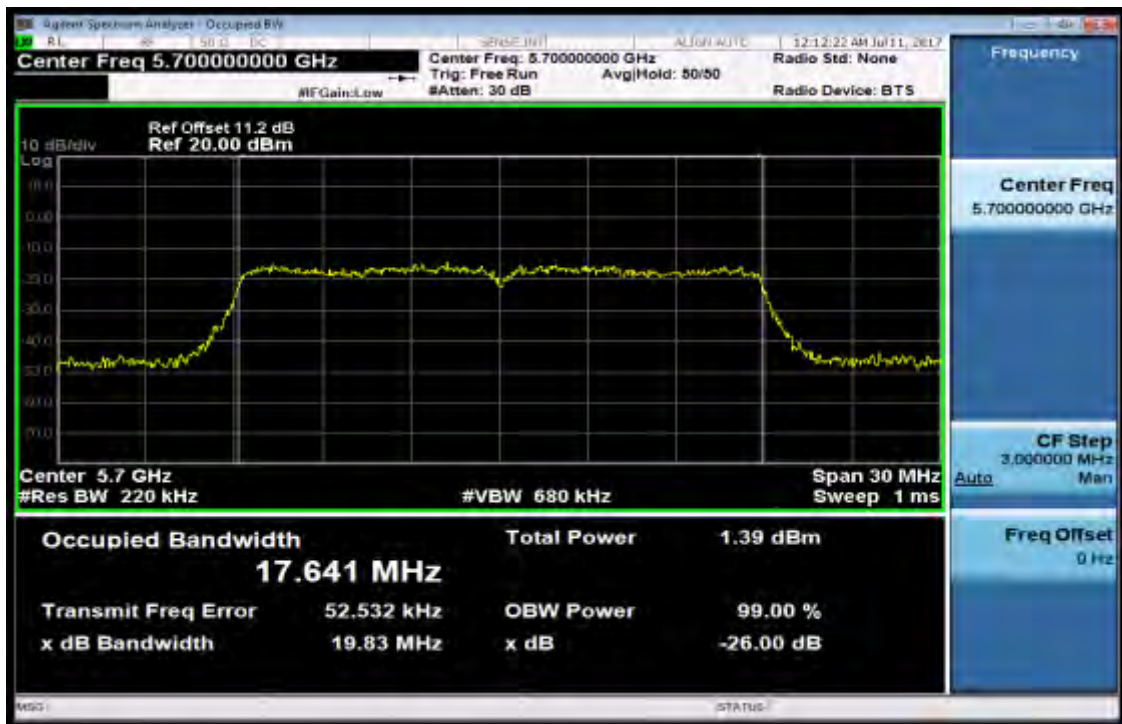
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26dB Band Width Test Data CH-High (5700 MHz)



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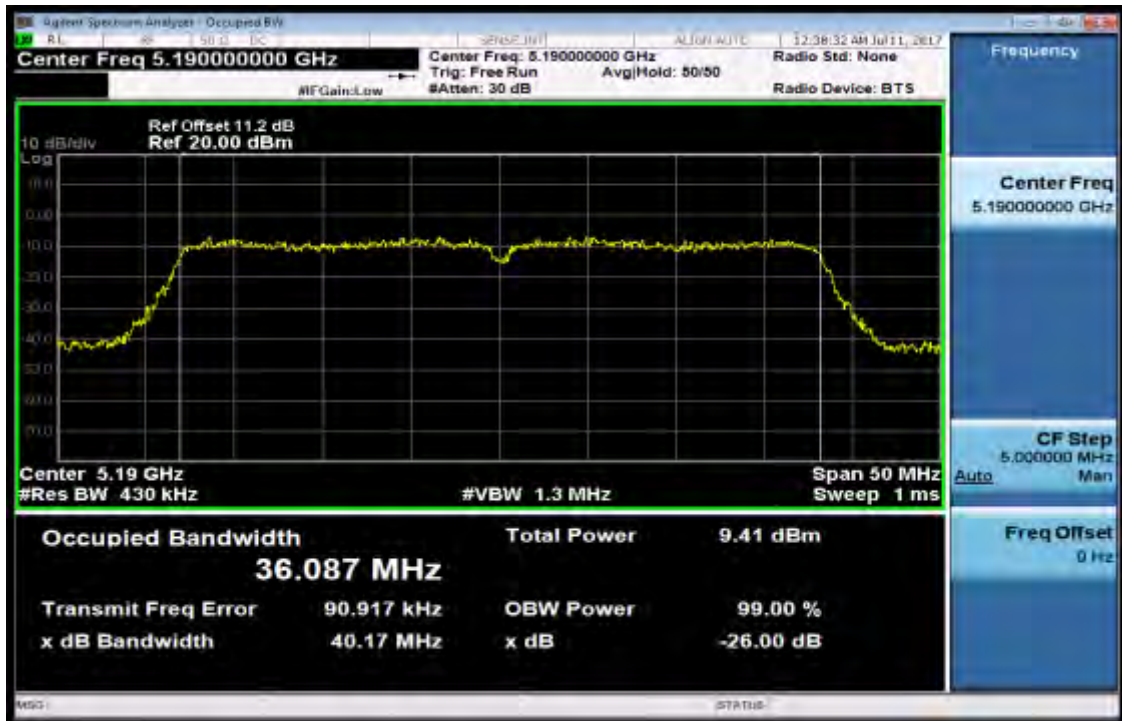
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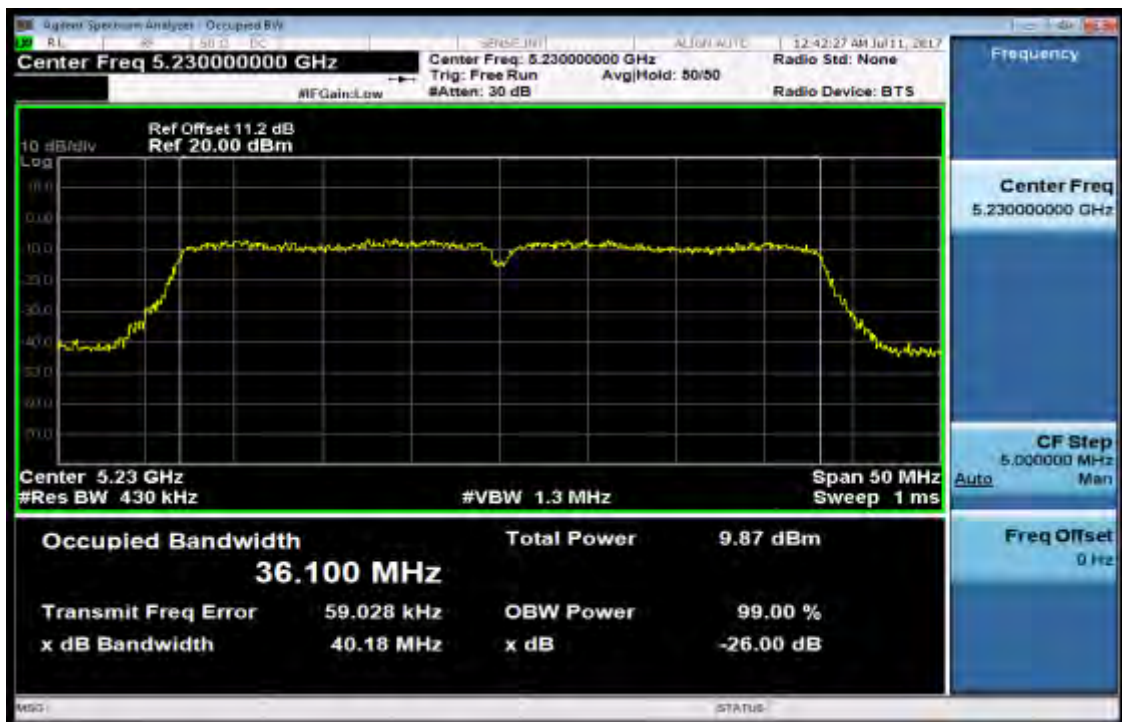
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802.11n HT40, 5150~5250 MHz (Main)
26dB Band Width Test Data CH-Low (5190 MHz)



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



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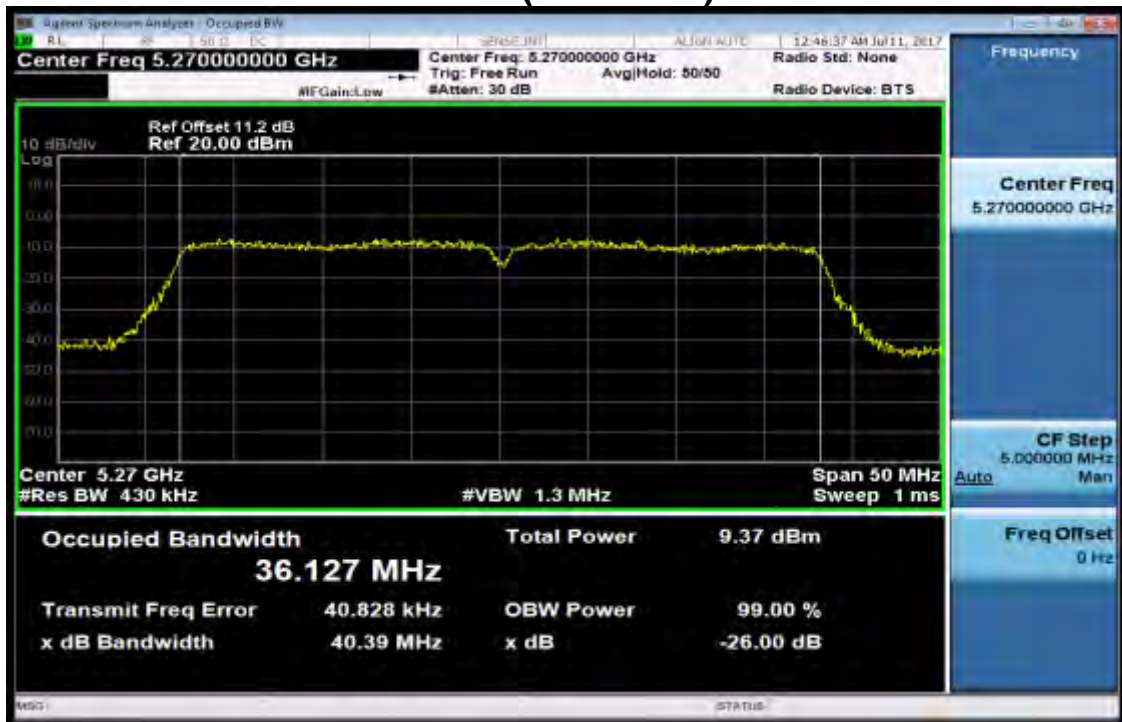
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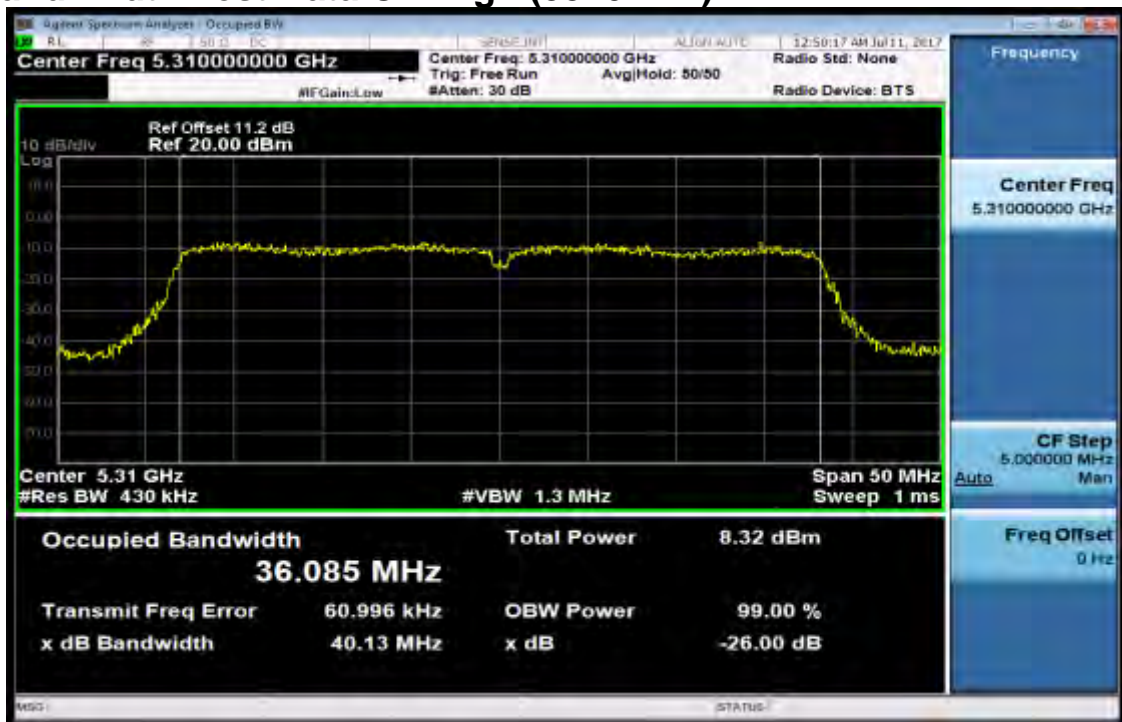
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802.11n HT40, 5250~5350 MHz (Main)
26dB Band Width Test Data CH-Low (5270 MHz)



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



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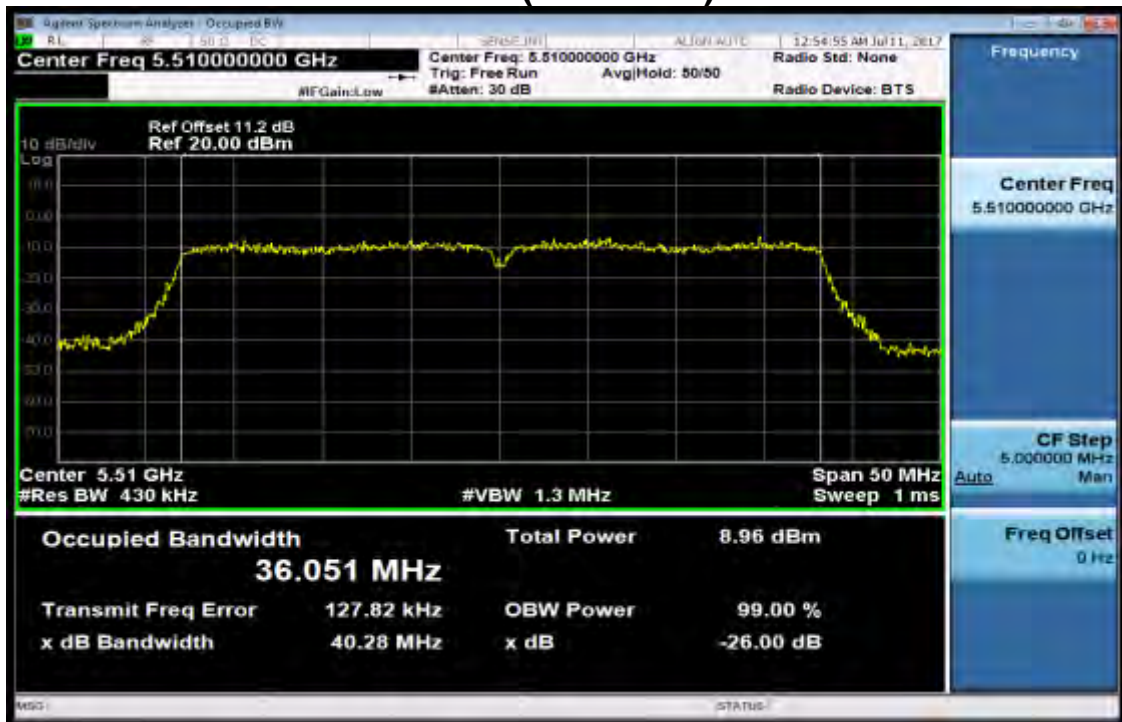
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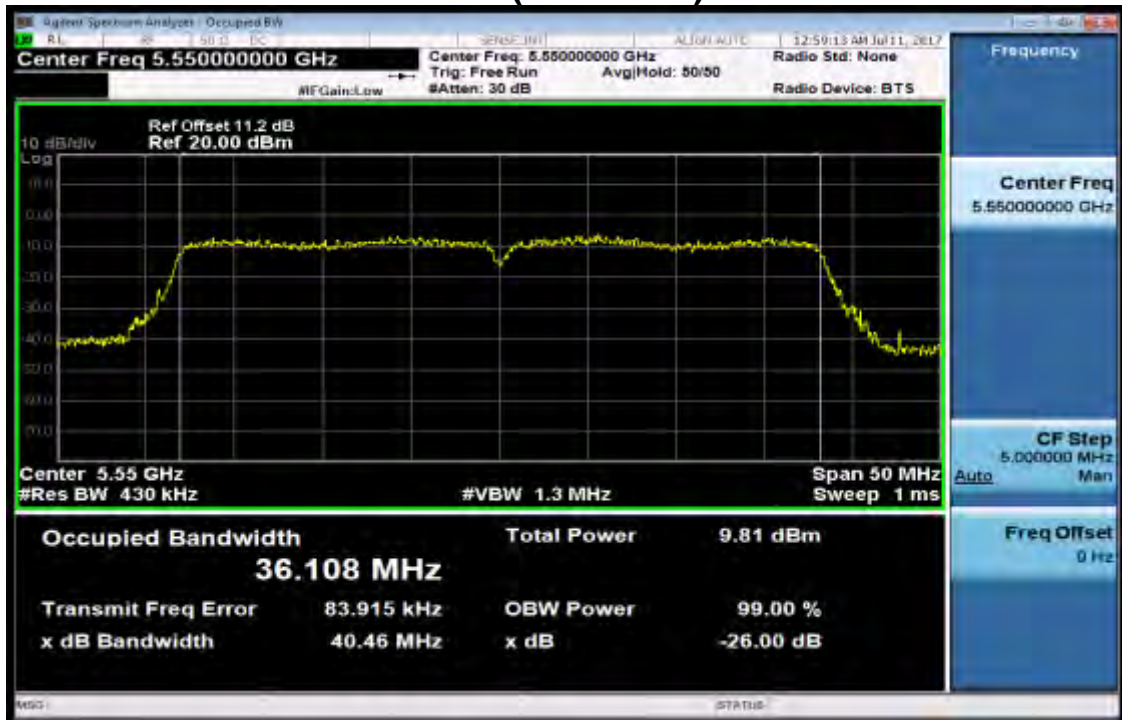
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802.11n HT40, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5510 MHz)



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



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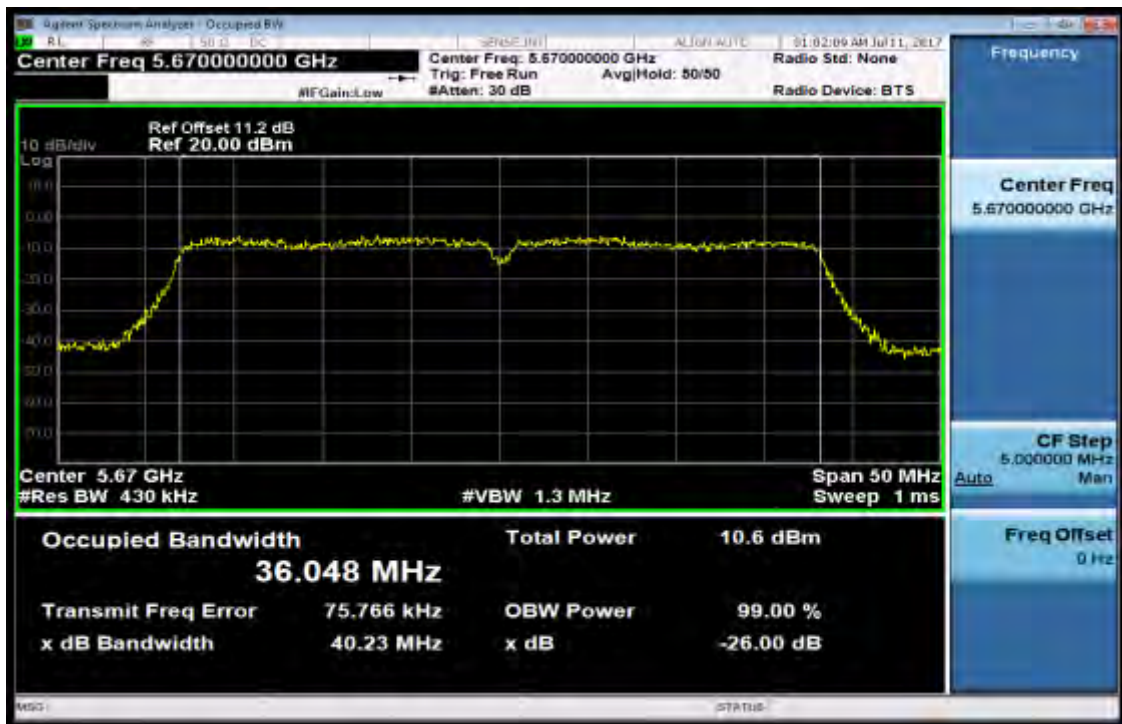
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26dB Band Width Test Data CH-High (5670 MHz)



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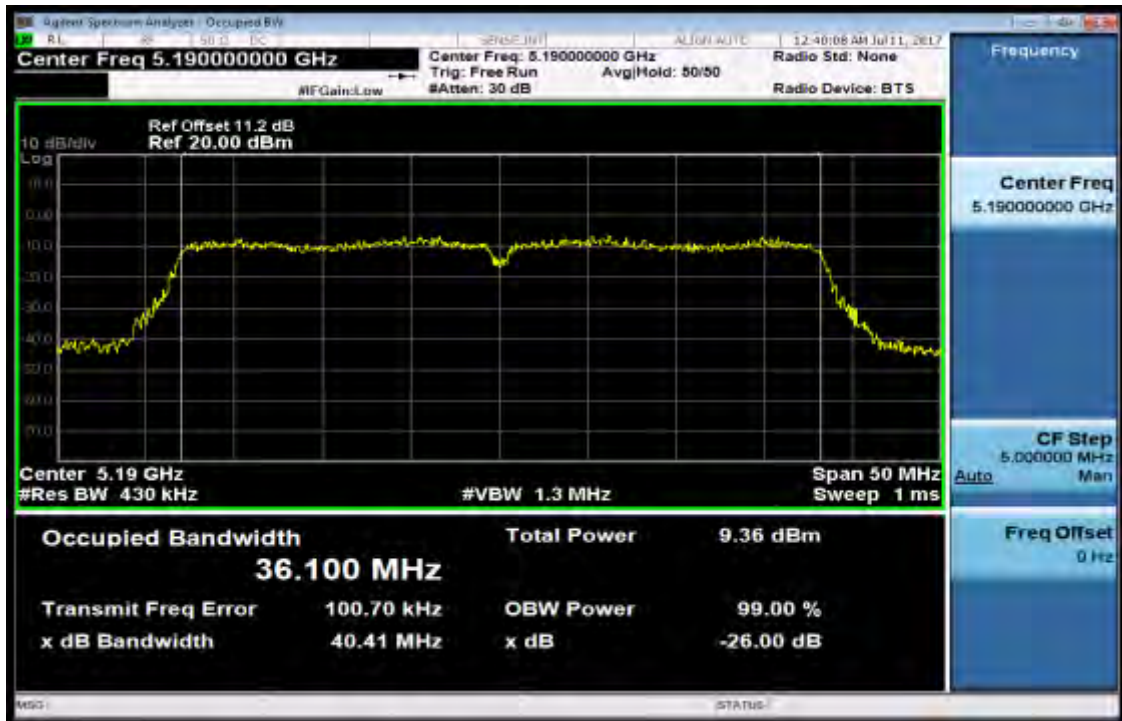
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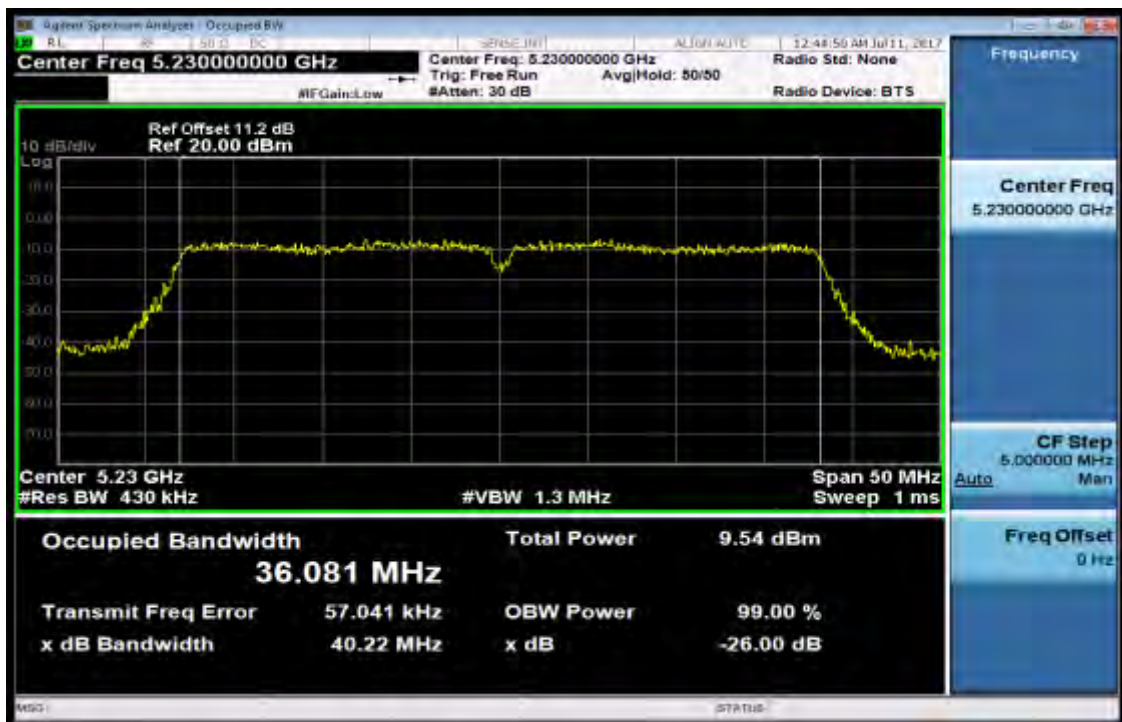
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**802.11n HT40, 5150~5250 MHz (Aux)
26dB Band Width Test Data CH-Low (5190 MHz)**



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



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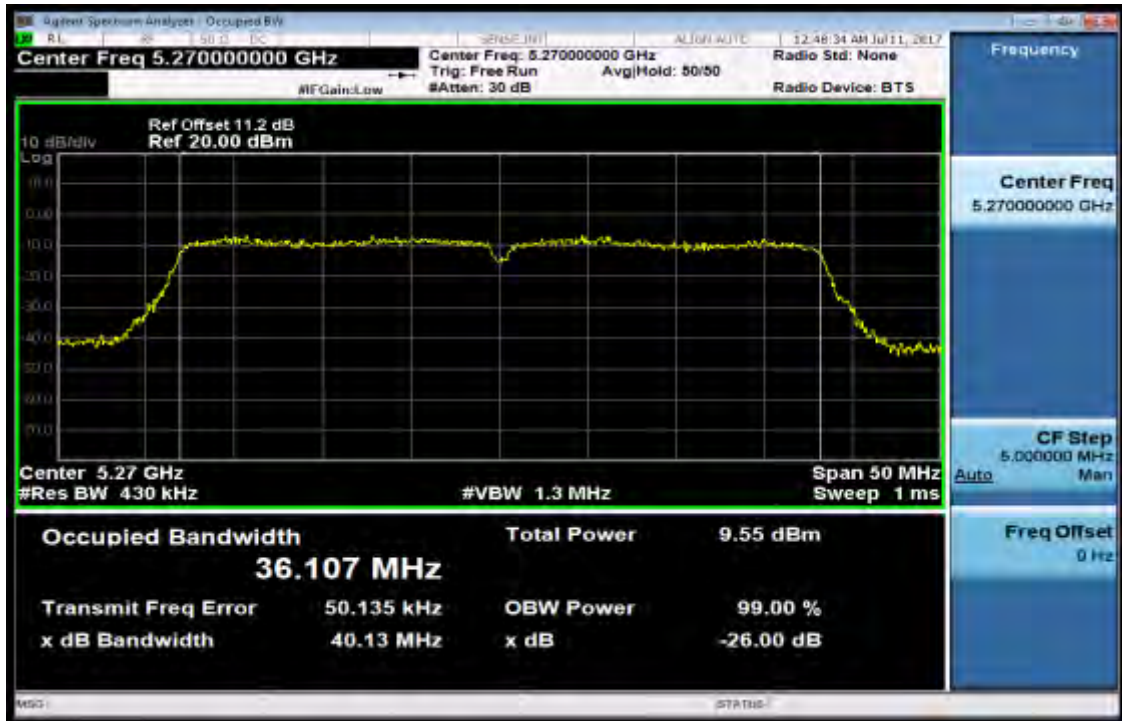
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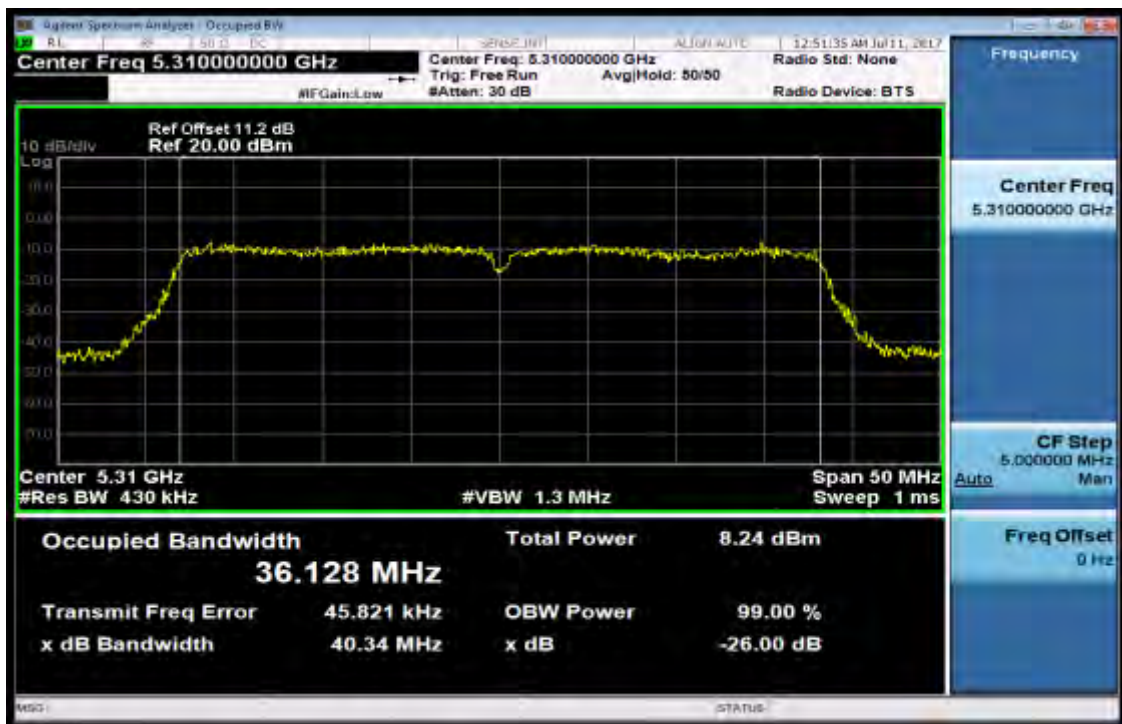
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**802.11n HT40, 5250~5350 MHz (Aux1)
26dB Band Width Test Data CH-Low (5270 MHz)**



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



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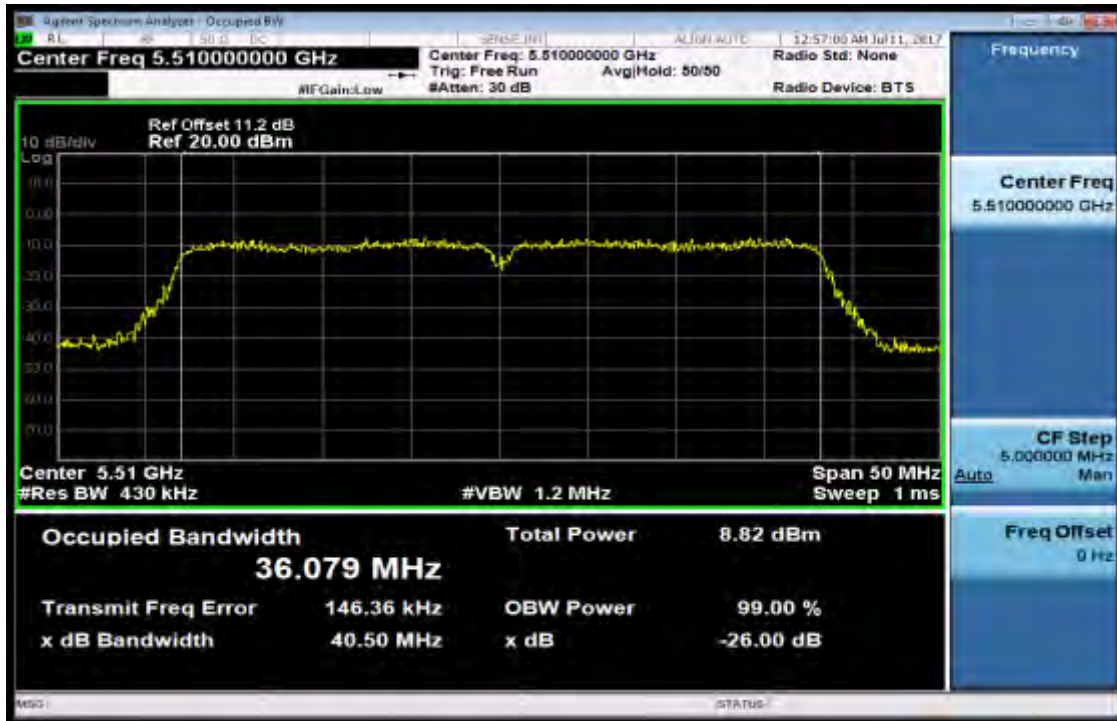
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802.11n HT40, 5470~5725 MHz (Aux) 26dB Band Width Test Data CH-Low (5510 MHz)



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



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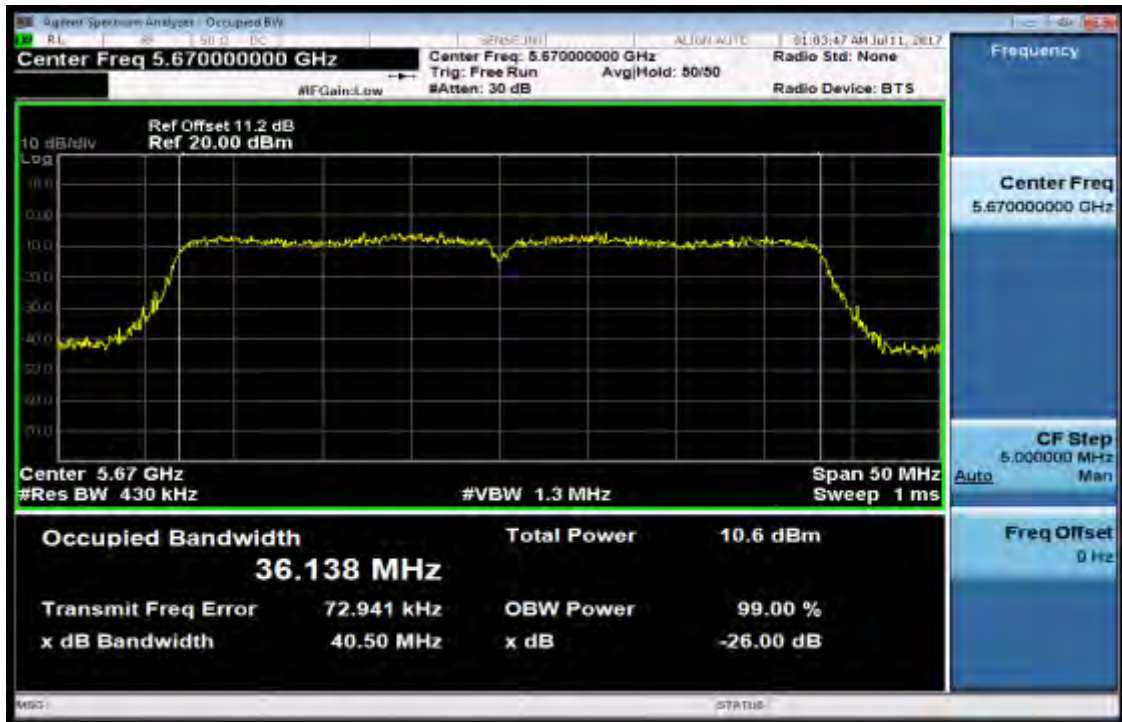
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26dB Band Width Test Data CH-High (5670 MHz)



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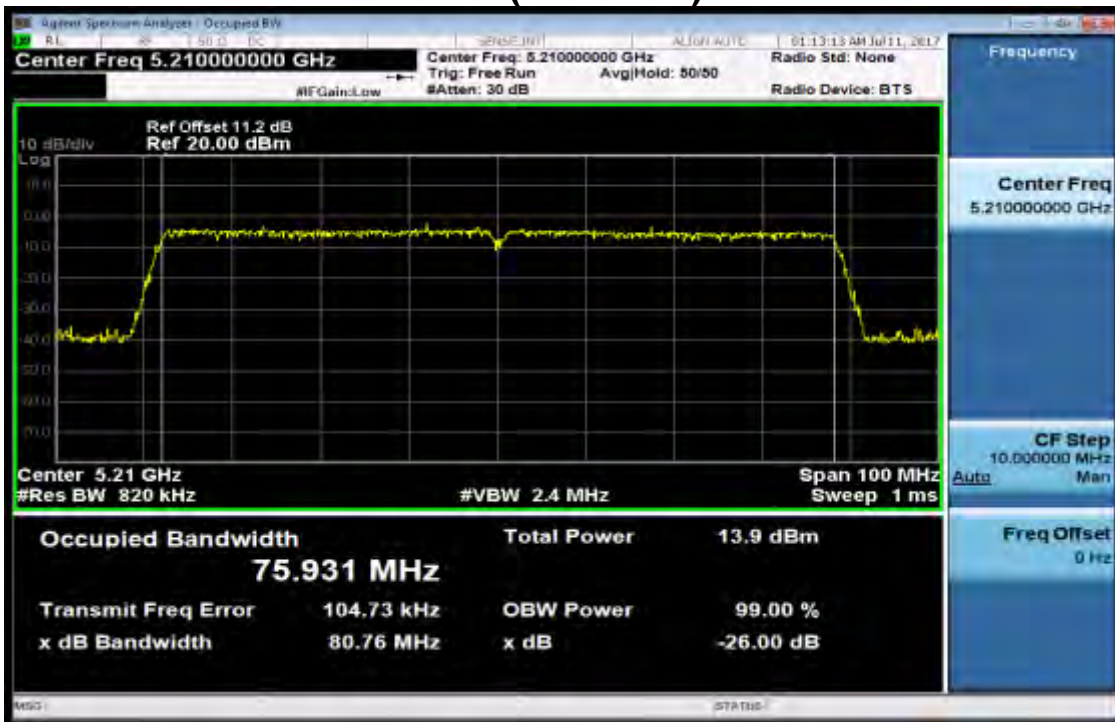
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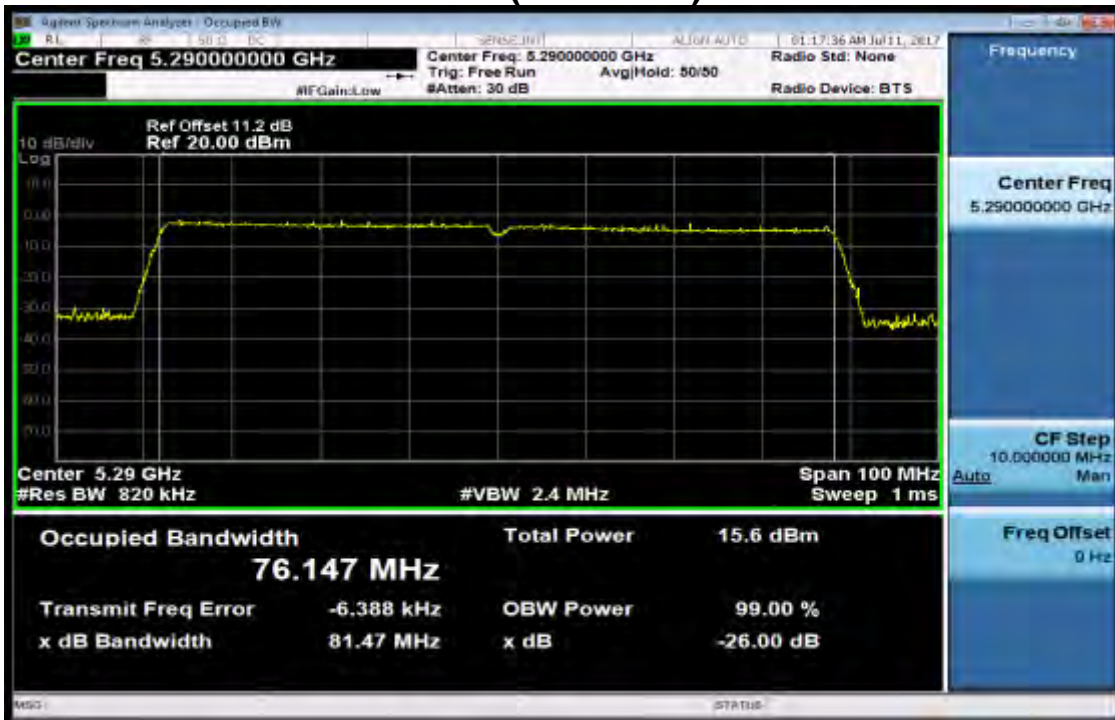
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**802.11ac VHT80, 5150~5250 MHz (Main)
26dB Band Width Test Data CH-Mid (5210 MHz)**



**802.11ac VHT80, 5250~5350 MHz
26dB Band Width Test Data CH-Mid (5290 MHz)**



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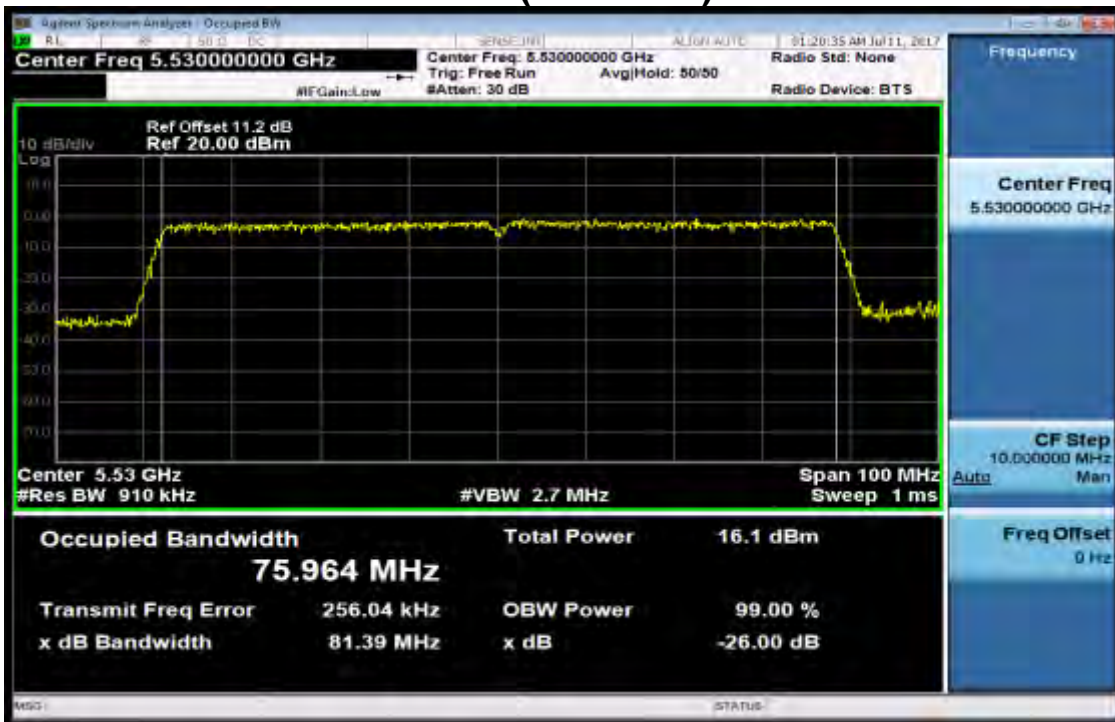
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**802.11ac VHT80, 5470~5725 MHz (Main)
26dB Band Width Test Data CH-Low (5530 MHz)**



**802.11ac VHT80, 5470~5725 MHz (Main)
26dB Band Width Test Data CH-High (5610 MHz)**



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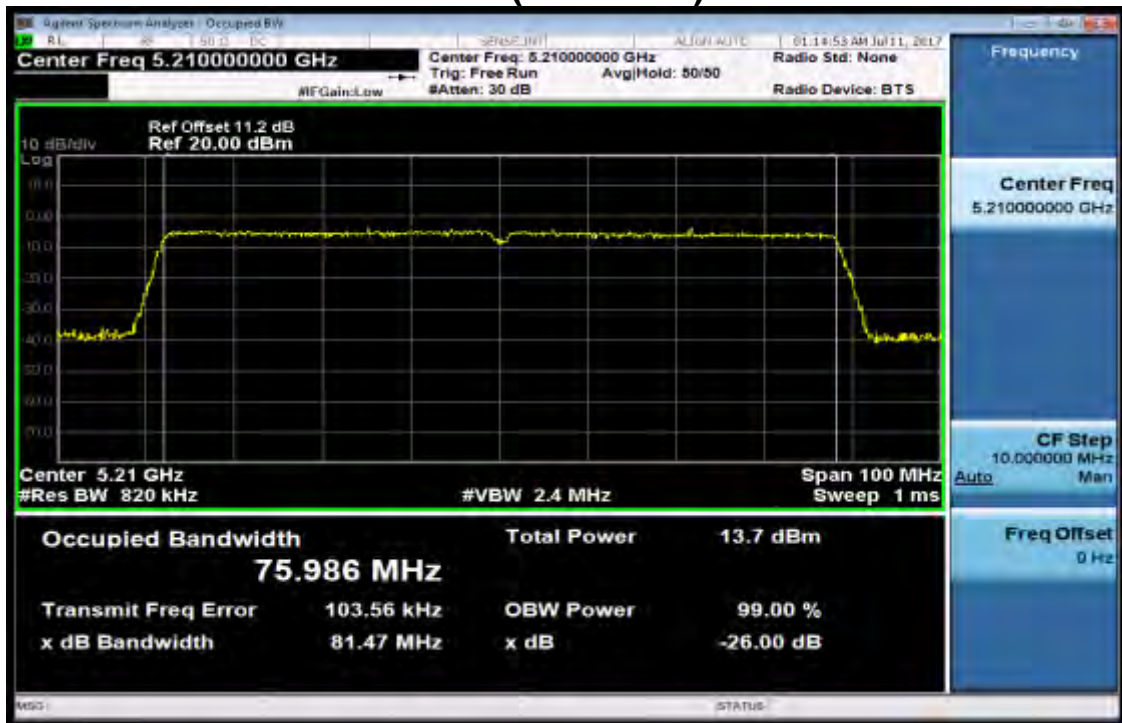
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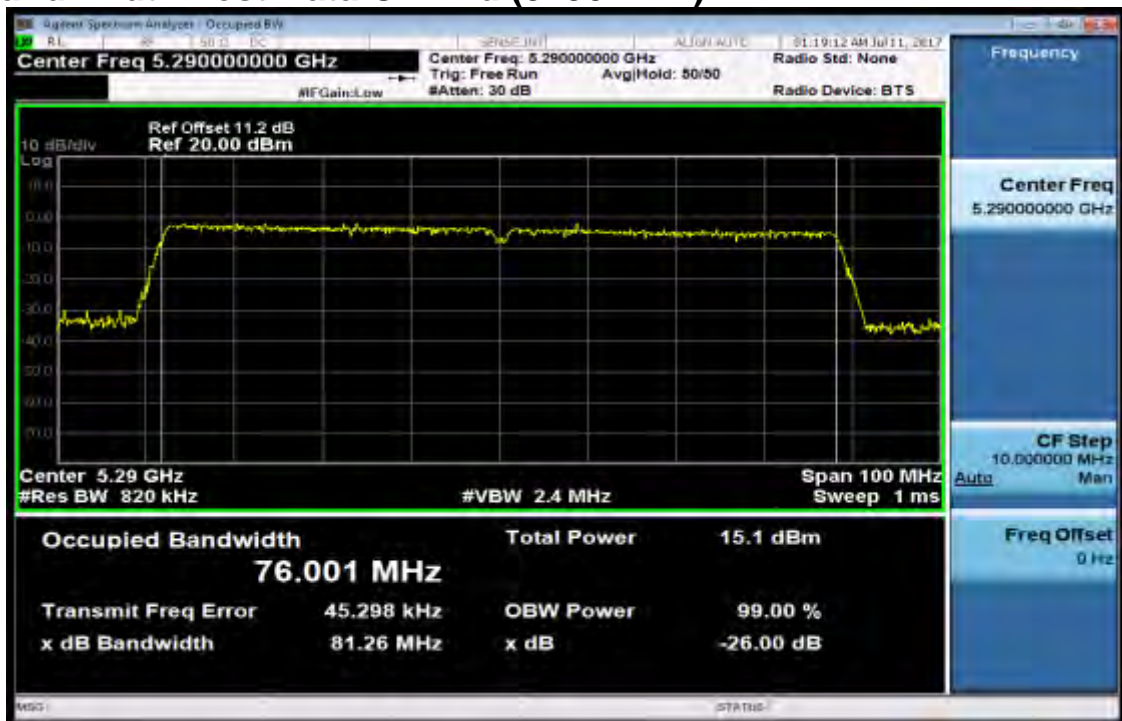
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**802.11ac VHT80, 5150~5250 MHz (Aux)
26dB Band Width Test Data CH-Mid (5210 MHz)**



**802.11ac VHT80, 5250~5350 MHz
26dB Band Width Test Data CH-Mid (5290 MHz)**



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**802.11ac VHT80, 5470~5725 MHz (Aux)
26dB Band Width Test Data CH-Low (5530 MHz)**



**802.11ac VHT80, 5470~5725 MHz (Aux)
26dB Band Width Test Data CH-High (5610 MHz)**



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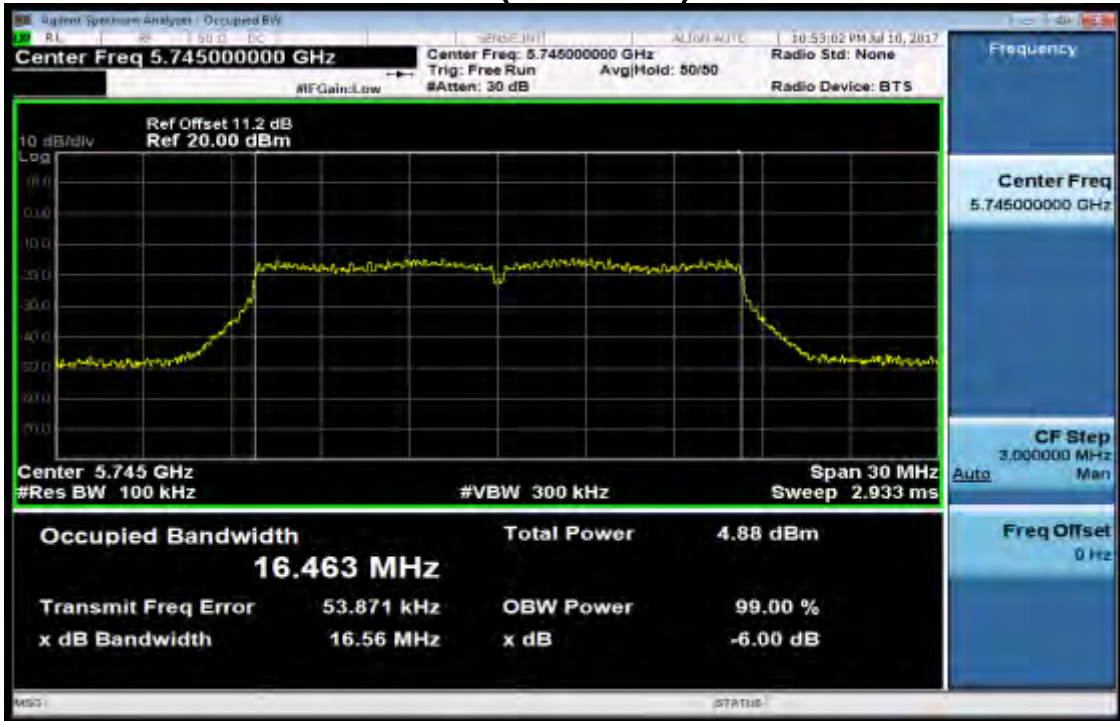
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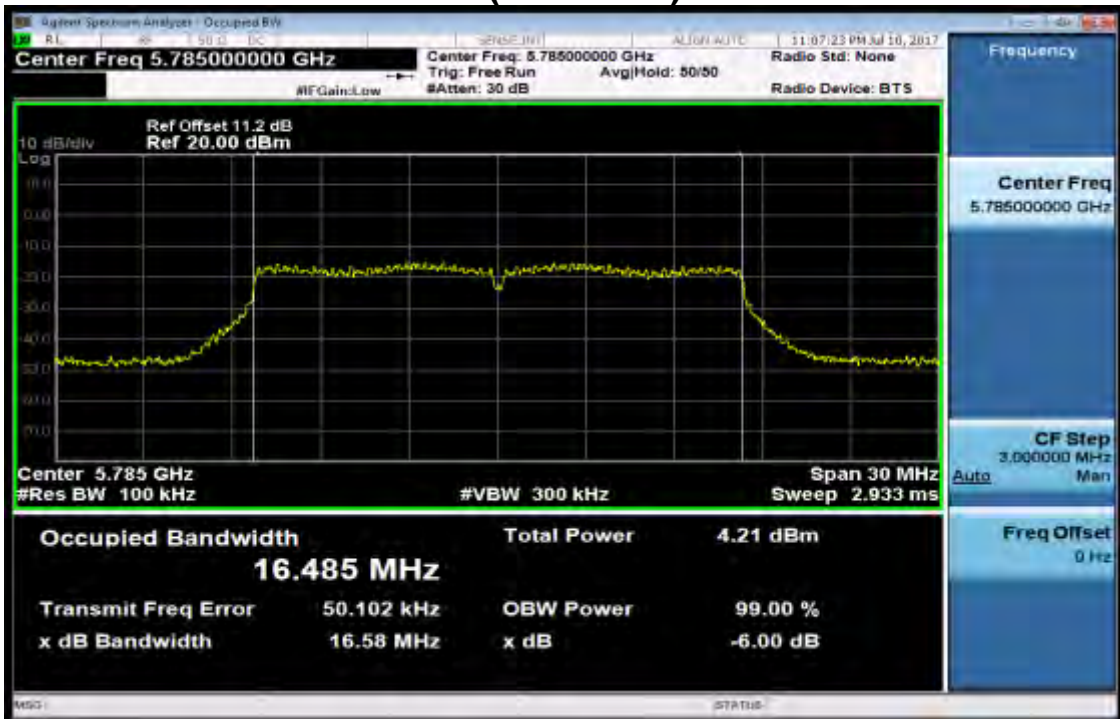
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6dB Band Width measure with Peak detector for FCC
802.11a, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5745 MHz)



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



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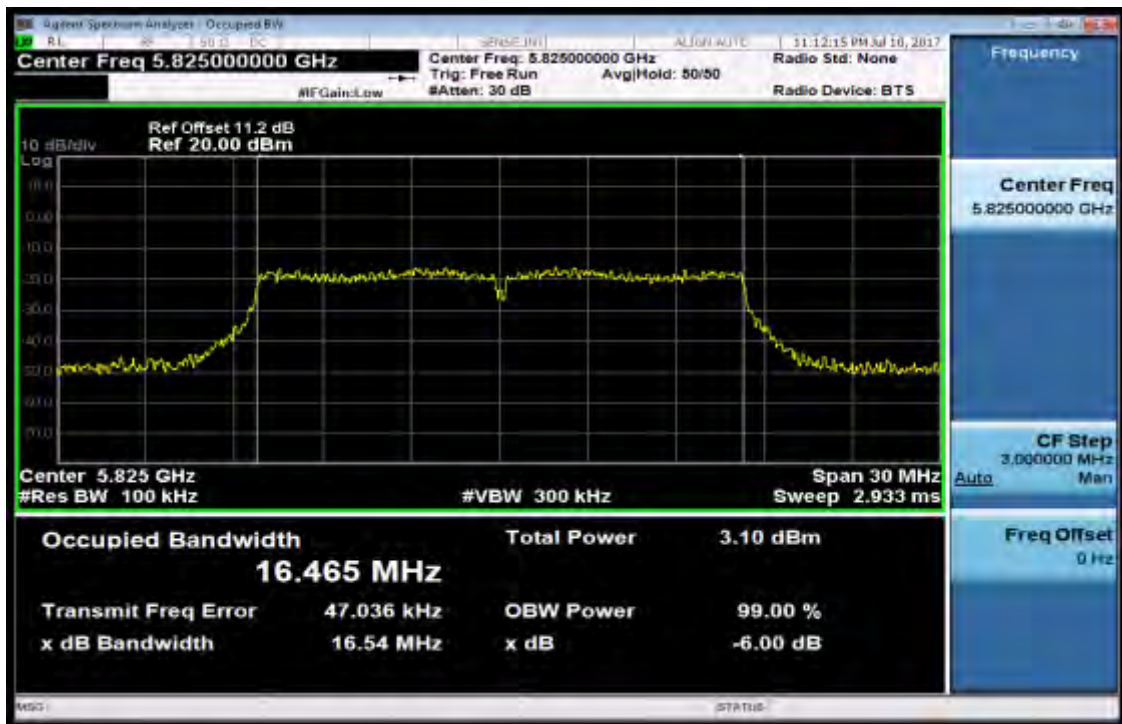
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6dB Band Width Test Data CH-High (5825 MHz)



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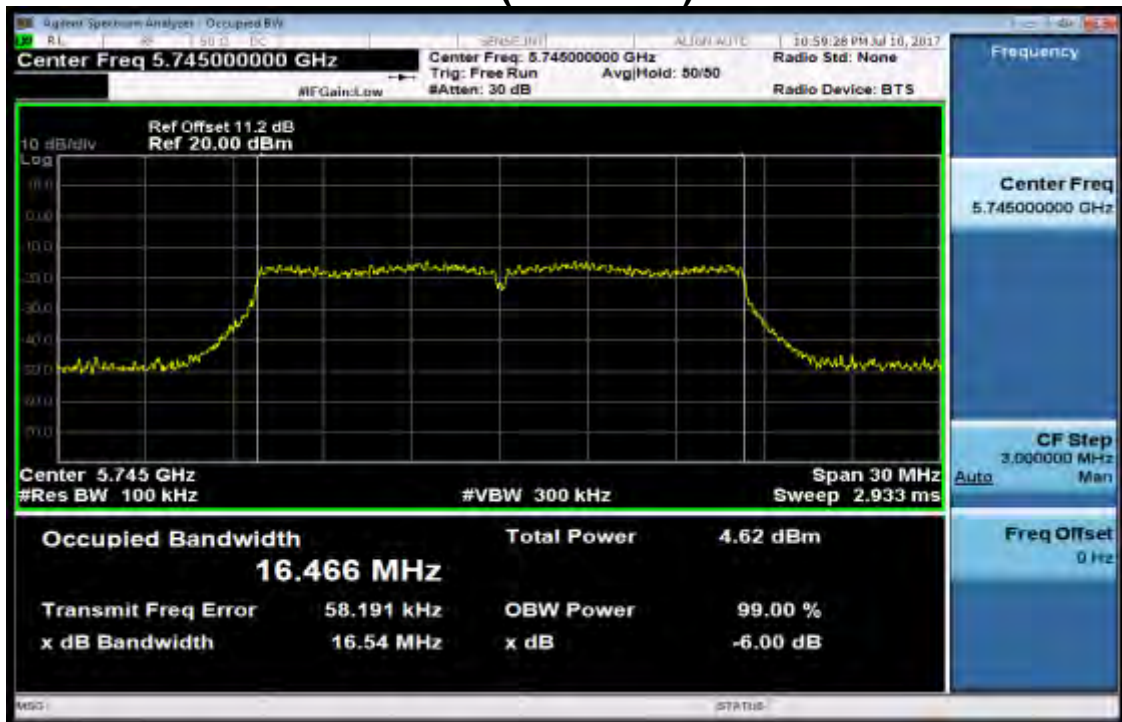
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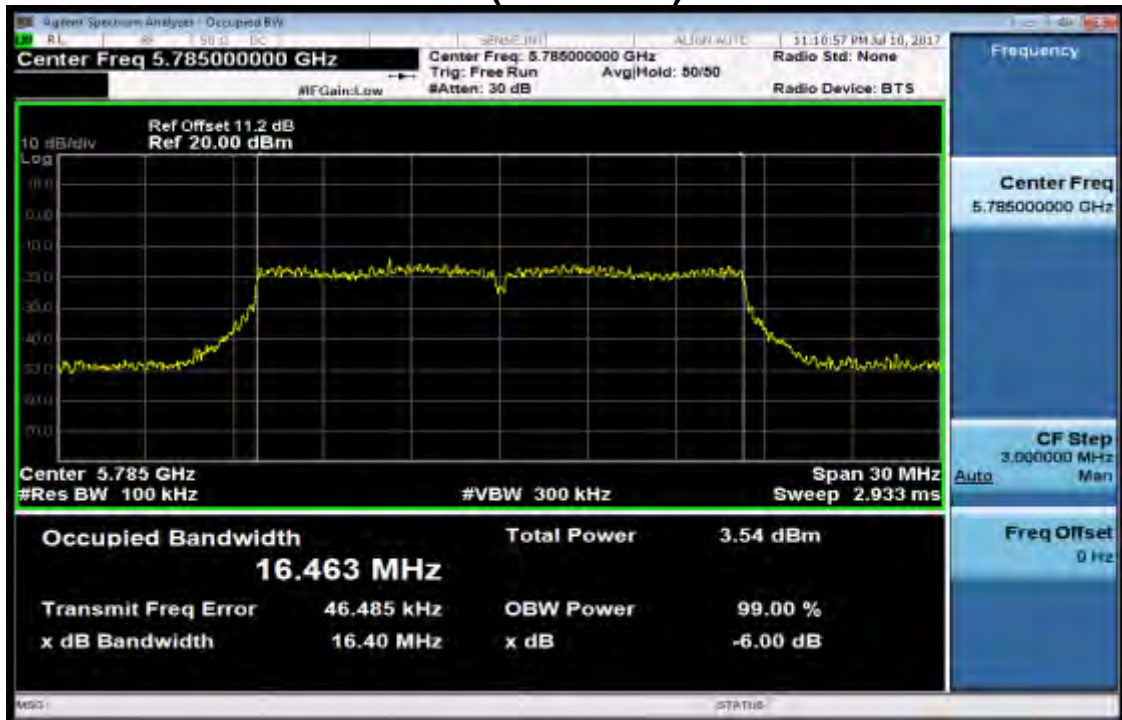
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802.11a, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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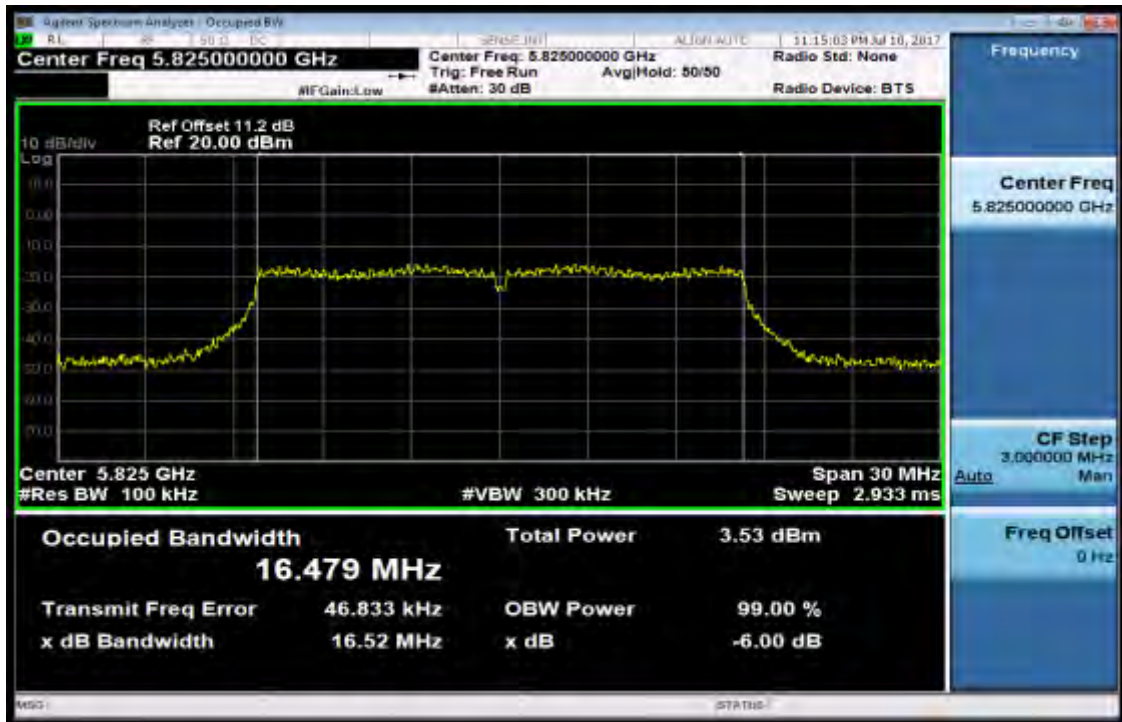
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6dB Band Width Test Data CH-High (5825 MHz)



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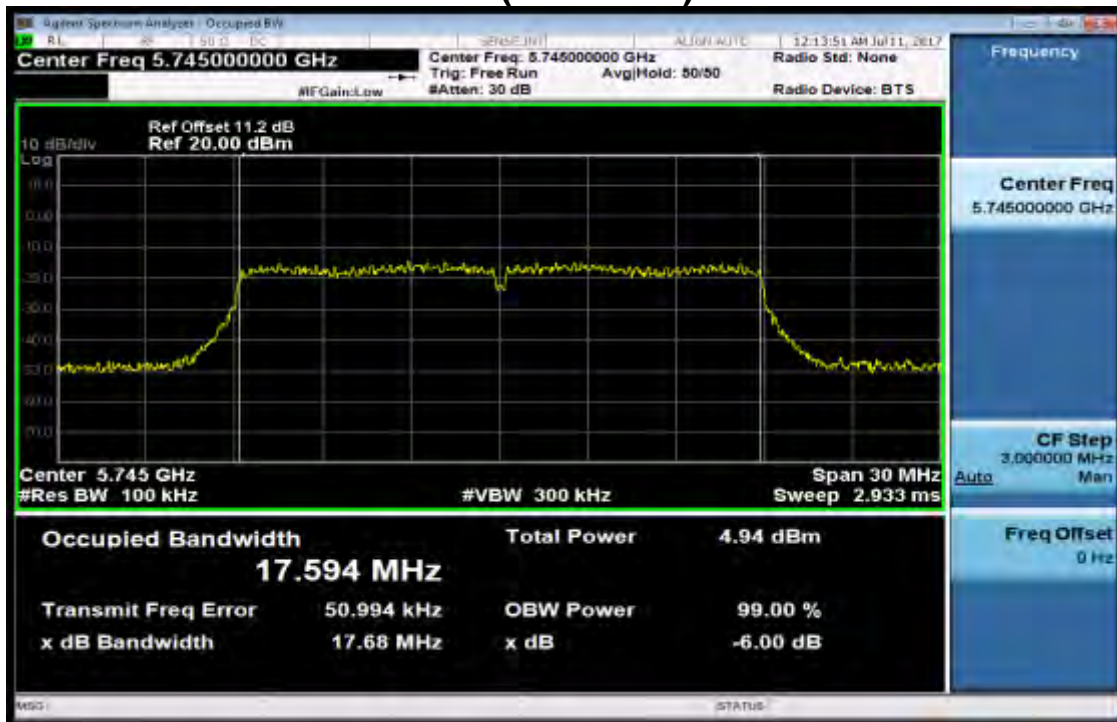
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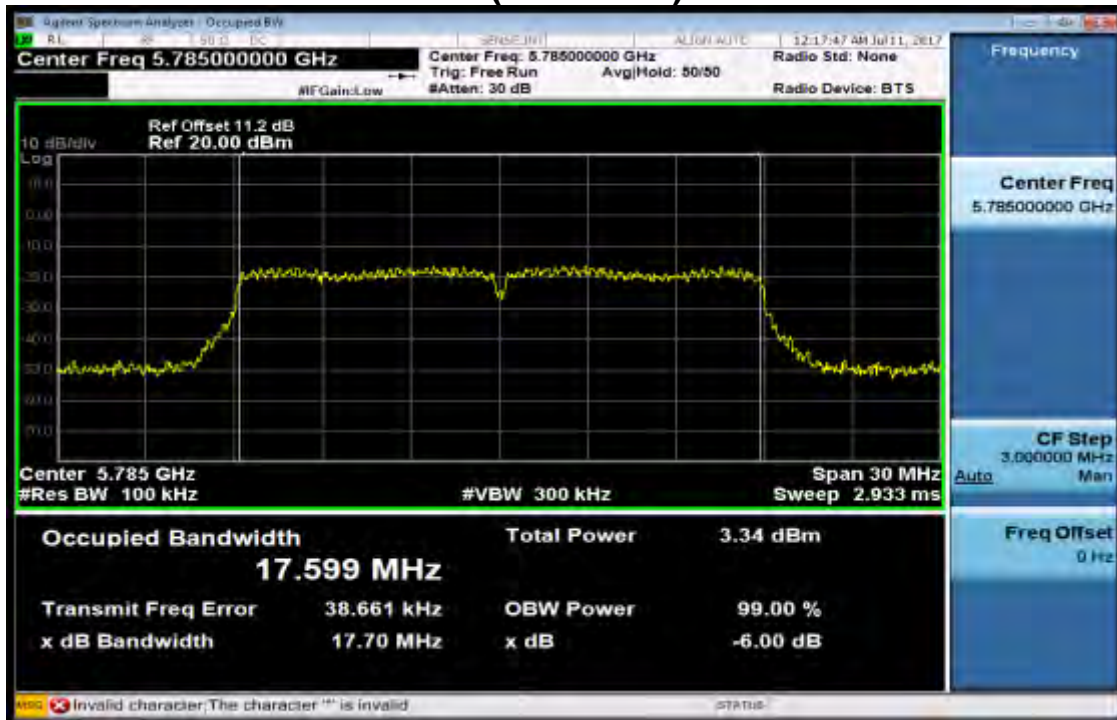
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802.11n_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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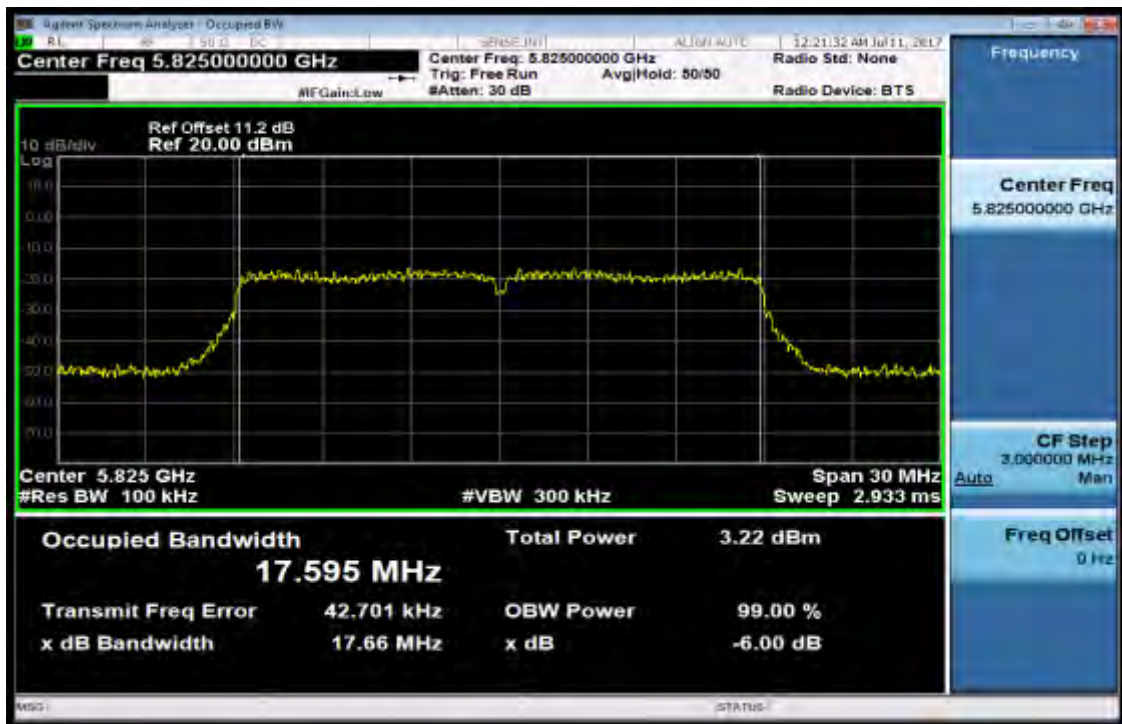
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6dB Band Width Test Data CH-High (5825 MHz)



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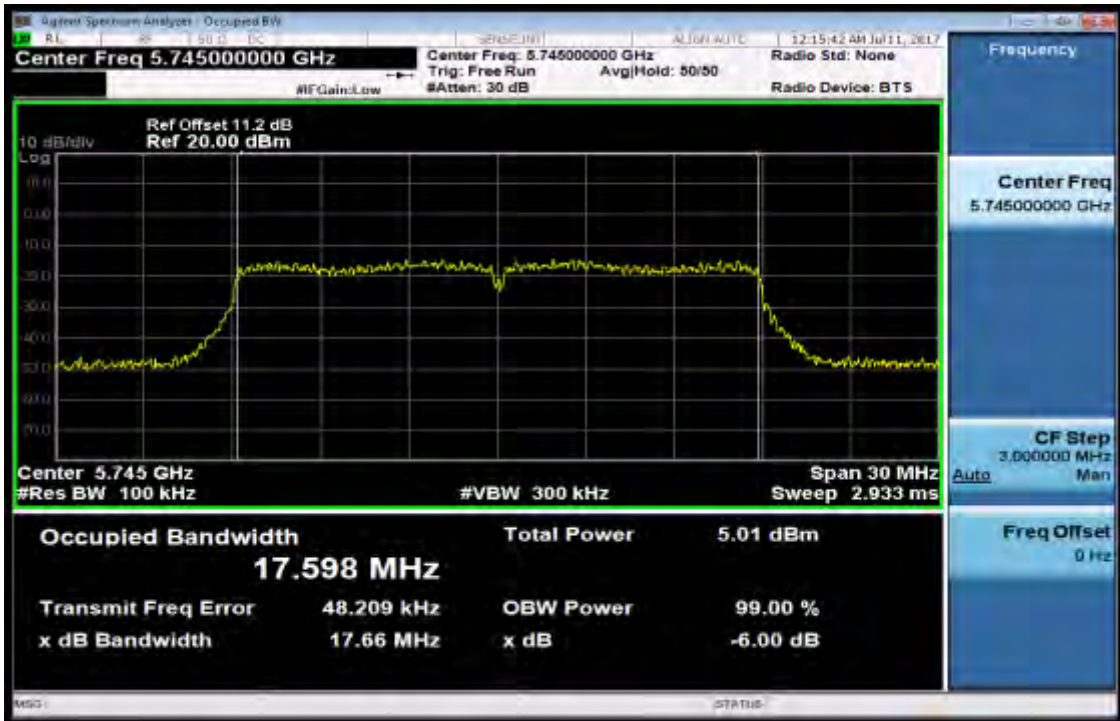
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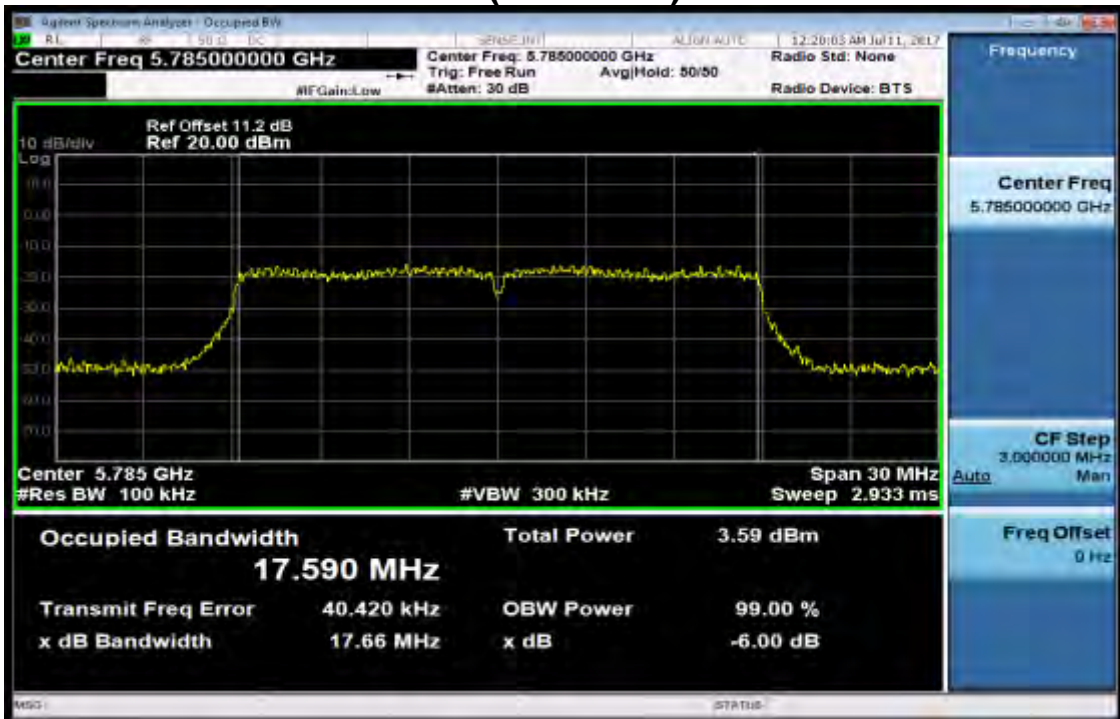
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802.11n_HT20, 5725~5850 MHz (Aux1)
6dB Band Width Test Data CH-Low (5745 MHz)



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



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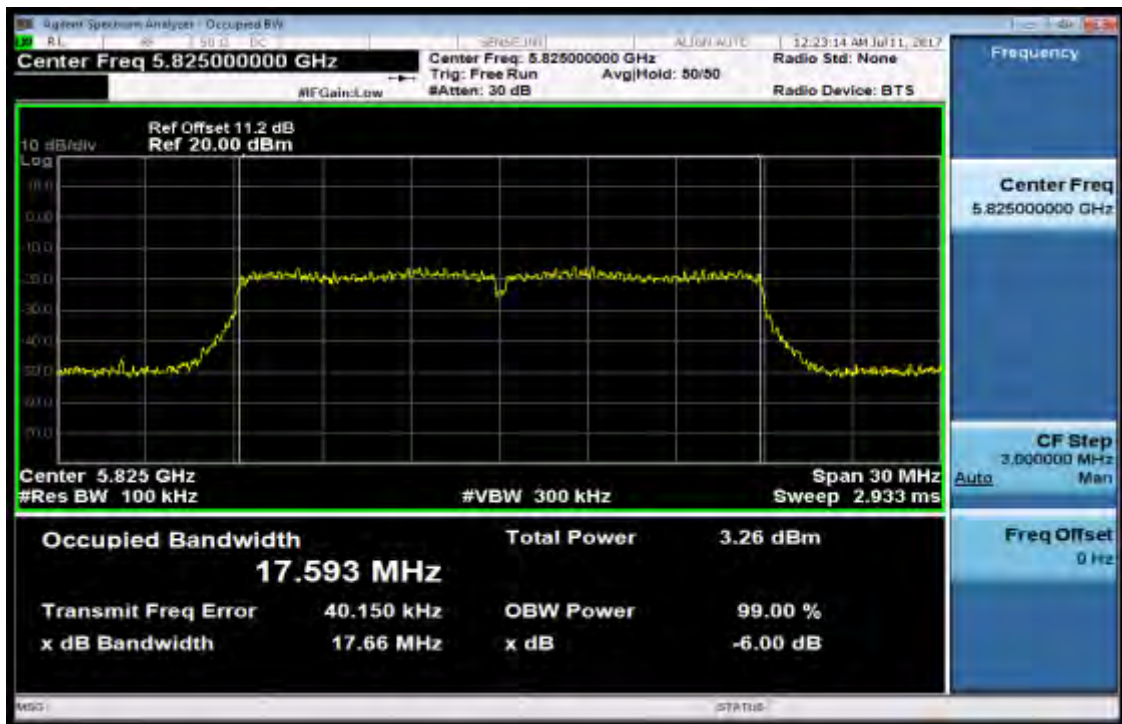
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6dB Band Width Test Data CH-High (5825 MHz)



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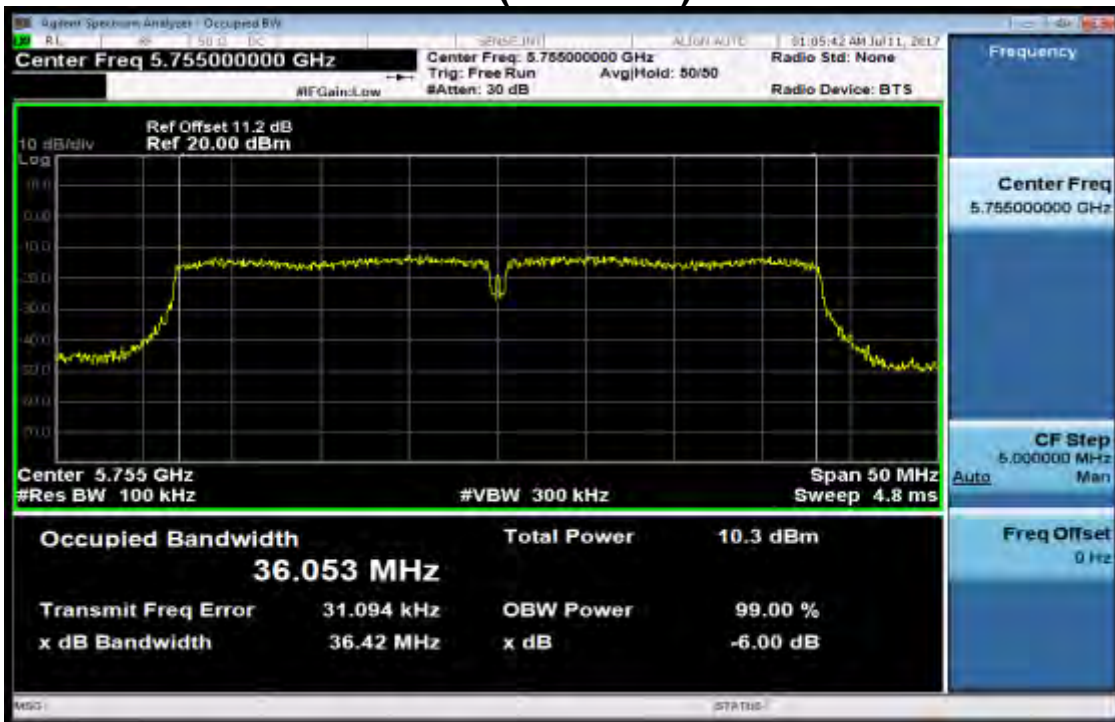
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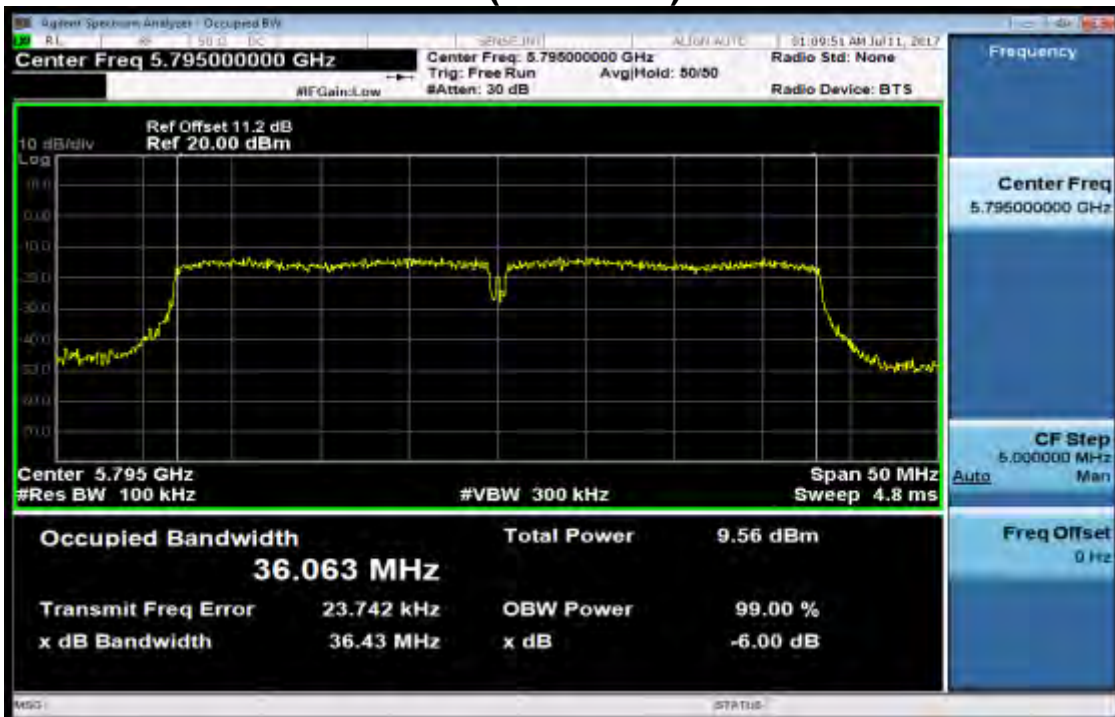
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802.11n_HT40, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5755 MHz)



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



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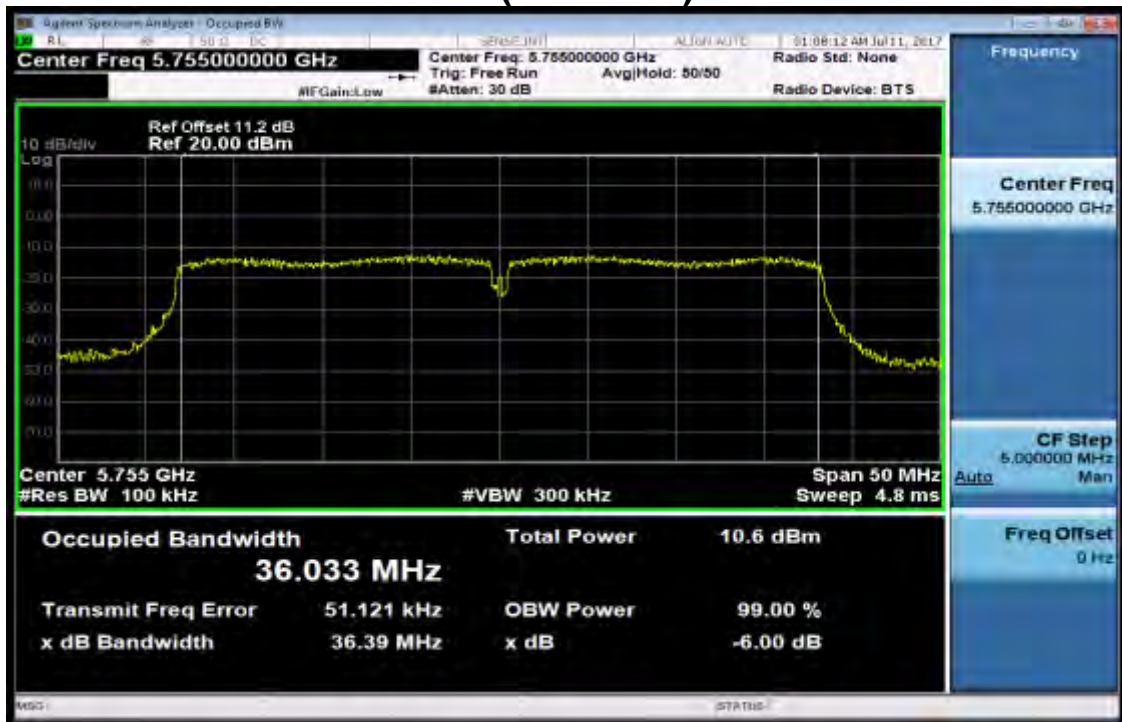
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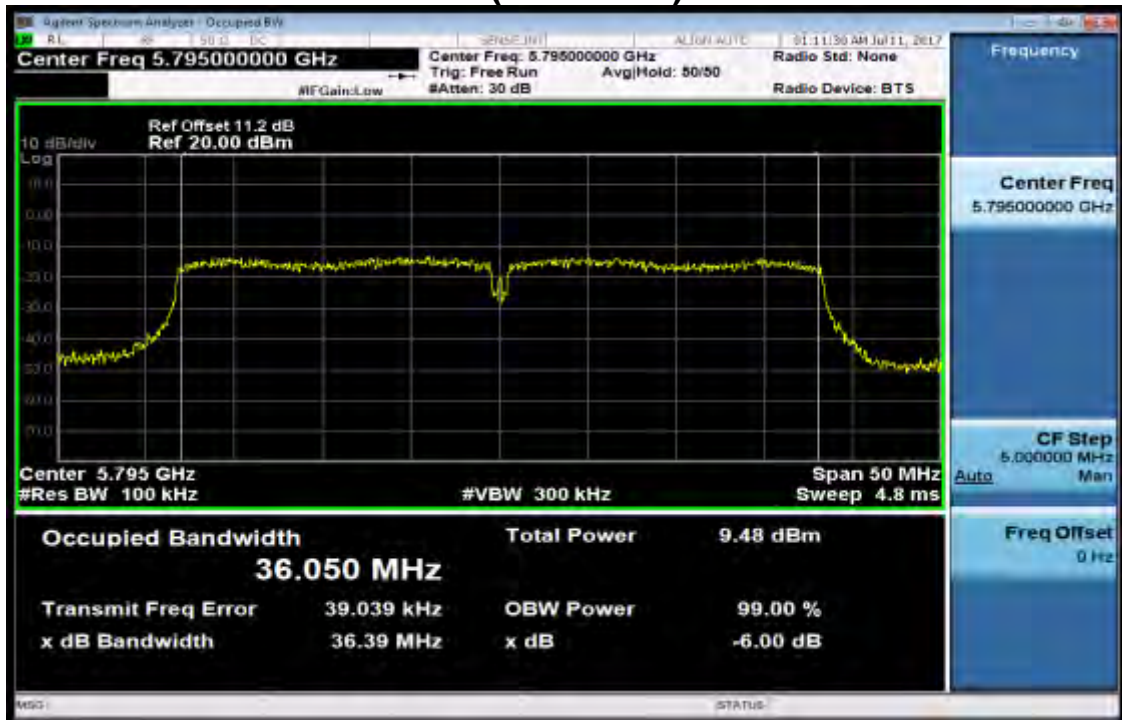
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802.11n_HT40, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5755 MHz)



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

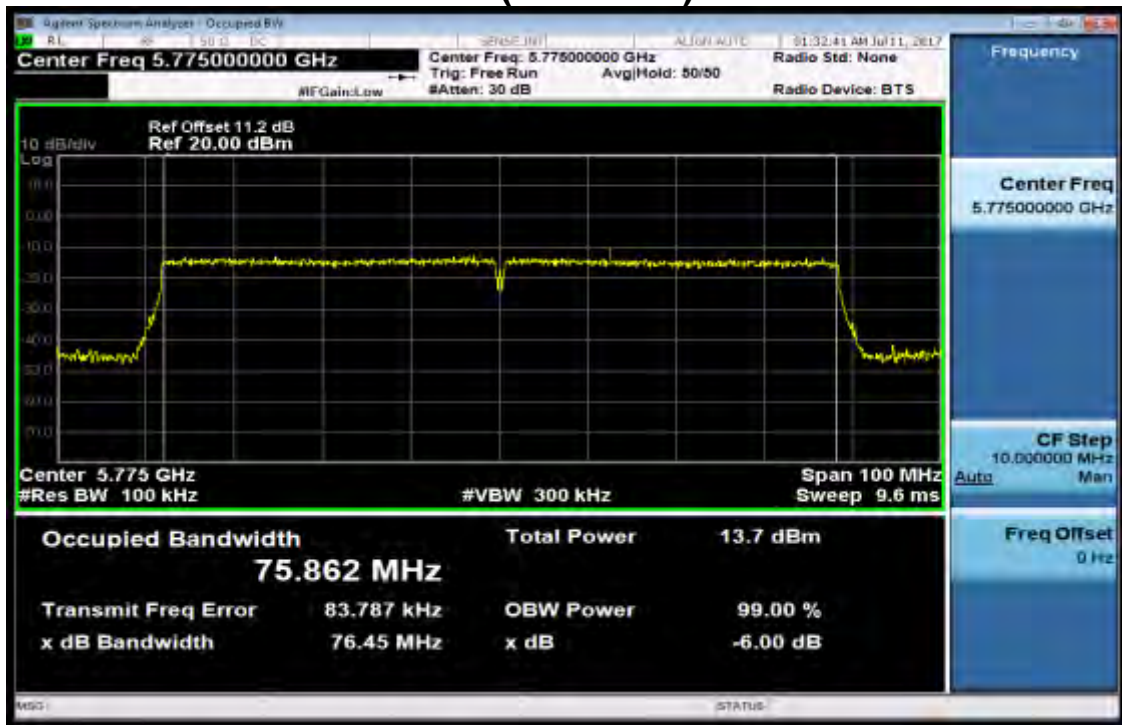


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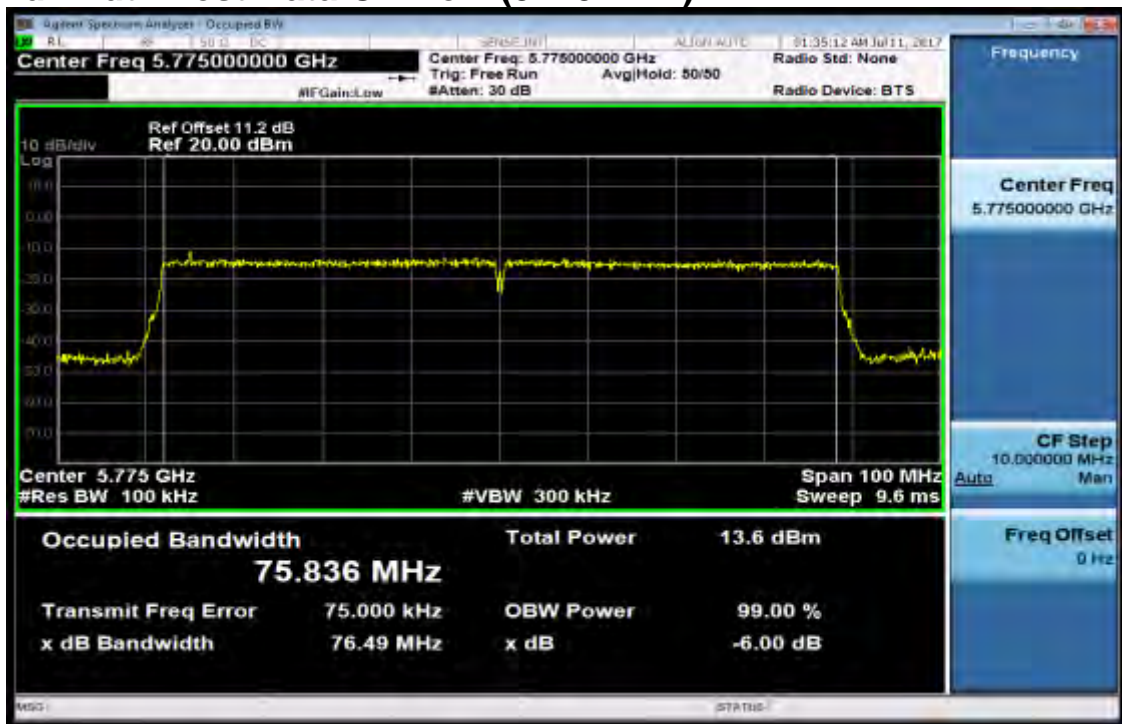
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802.11ac VHT80, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux)
6dB Band Width Test Data CH-Low (5775 MHz)



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

OPERATION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device)	1 Watt(30dBm)
	√	Fixed point-to-point Aceso Ponit	1 Watt(30dBm)
		clinet device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)

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

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Note: 5.15-5.25G

Antenna1 Gain: 3.49 dBi
Antenna2 Gain: 3.49 dBi
Number Antenna: 2 pcs
Limit: 30 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 6.5 dBi
Limit: 30m – (6.5– 6dBi)=29.5

Note: 5.25-5.35G

Antenna1 Gain: 3.49 dBi
Antenna2 Gain: 3.49 dBi
Number Antenna: 2 pcs
Limit: 23.98 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 6.5 dBi
Limit: 23.98dBm – (6.5– 6dBi)=23.48

Note: 5.47-5.725G

Antenna1 Gain: 4.2 dBi
Antenna2 Gain: 4.2 dBi
Number Antenna: 2 pcs
Limit: 23.98 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 7.21 dBi
Limit: 23.968dBm – (7.21– 6dBi)=22.77

Note: 5.725-5.850G

Antenna1 Gain: 4.37 dBi
Antenna2 Gain: 4.37 dBi
Number Antenna: 2 pcs
Limit: 30 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 7.21 dBi
Limit: 30dBm – (7.38– 6dBi)=28.62

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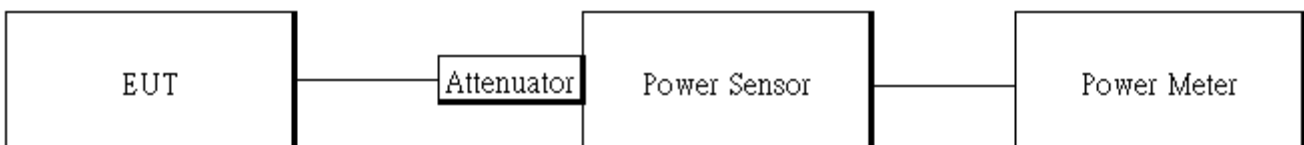
9.2 Measurement Procedure

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

9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Power Meter	Anritsu	ML2496A	1326001	06/23/2017	06/22/2018
Power Sensor	Anritsu	MA2411B	1315048	06/23/2017	06/22/2018
Power Sensor	Anritsu	MA2411B	1315049	06/23/2017	06/22/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power

802.11a_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	9.61	10.31	12.98	19.881	29.5	PASS
44	5220	MCS8	9.65	10.23	12.96	19.770	29.5	PASS
48	5240	MCS8	9.45	10.11	12.80	19.067	29.5	PASS
52	5260	MCS8	9.76	10.05	12.92	19.578	23.48 or $11+10\log(B) = 23.92$	PASS
60	5300	MCS8	9.21	9.98	12.62	18.291	23.48 or $11+10\log(B) = 23.95$	PASS
64	5320	MCS8	10.31	9.15	12.78	18.962	23.48 or $11+10\log(B) = 23.91$	PASS
100	5500	MCS8	8.45	11.03	12.94	19.675	22.77 or $11+10\log(B) = 23.97$	PASS
116	5580	MCS8	9.54	9.85	12.71	18.655	22.77 or $11+10\log(B) = 23.93$	PASS
140	5700	MCS8	9.11	10.53	12.89	19.445	22.77 or $11+10\log(B) = 23.95$	PASS
149	5745	MCS8	8.95	10.74	12.95	19.710	28.62	PASS
157	5785	MCS8	9.12	9.93	12.55	18.006	28.62	PASS
165	5825	MCS8	8.61	11.02	12.99	19.908	28.62	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	6.84	10.38	11.97	15.745	29.5	PASS
44	5220	MCS8	6.86	10.32	11.94	15.618	29.5	PASS
48	5240	MCS8	6.76	10.21	11.83	15.238	29.5	PASS
52	5260	MCS8	6.45	10.15	11.69	14.767	23.48 or $11+10\log(B) = 24.01$	PASS
60	5300	MCS8	6.71	10.11	11.74	14.945	23.48 or $11+10\log(B) = 23.98$	PASS
64	5320	MCS8	8.23	9.51	11.93	15.586	23.48 or $11+10\log(B) = 23.99$	PASS
100	5500	MCS8	6.81	10.37	11.96	15.687	22.77 or $11+10\log(B) = 24.01$	PASS
116	5580	MCS8	6.87	9.87	11.63	14.569	22.77 or $11+10\log(B) = 23.96$	PASS
140	5700	MCS8	7.92	9.61	11.86	15.336	22.77 or $11+10\log(B) = 23.97$	PASS
149	5745	MCS8	6.37	10.57	11.97	15.738	28.62	PASS
157	5785	MCS8	6.76	9.98	11.67	14.696	28.62	PASS
165	5825	MCS8	5.76	10.79	11.98	15.762	28.62	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	5.02	9.72	10.99	12.552	29.5	PASS
46	5230	MCS8	5.65	9.14	10.75	11.876	29.5	PASS
54	5270	MCS8	5.61	9.21	10.78	11.976	23.48 or $11+10\log(B) = 27.03$	PASS
62	5310	MCS8	5.32	8.38	10.12	10.291	23.48 or $11+10\log(B) = 27.03$	PASS
102	5510	MCS8	5.55	9.53	10.99	12.564	22.77 or $11+10\log(B) = 27.05$	PASS
110	5550	MCS8	4.65	9.54	10.76	11.912	22.77 or $11+10\log(B) = 27.07$	PASS
134	5670	MCS8	5.72	9.42	10.96	12.482	22.77 or $11+10\log(B) = 27.05$	PASS
151	5755	MCS8	4.34	9.91	10.97	12.511	28.62	PASS
159	5795	MCS8	3.95	10.03	10.99	12.552	28.62	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	9.05	2.86	9.99	9.967	29.5	PASS
58	5290	MCS0	9.29	1.67	9.98	9.961	23.48 or $11+10\log(B) = 30.10$	PASS
106	5530	MCS0	8.55	3.1	9.64	9.203	22.77 or $11+10\log(B) = 30.08$	PASS
122	5610	MCS0	9.15	2.47	9.99	9.988	22.77 or $11+10\log(B) = 30.10$	PASS
155	5775	MCS0	8.89	3.32	9.95	9.892	28.62	PASS

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERATION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device)	17dBm/ MHz
	√	Fixed point-to-point Acess Ponit	
		Mobile and portable clinet device	
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

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

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Note: 5.15-5.25G

Antenna1 Gain: 3.49 dBi
Antenna2 Gain: 3.49 dBi
Number Antenna: 2 pcs
Limit: 17 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 6.5dBi
Limit: 17dBm – (6.5– 6dBi)=16.5

Note: 5.25-5.35G

Antenna1 Gain: 3.49 dBi
Antenna2 Gain: 3.49 dBi
Number Antenna: 2 pcs
Limit: 11 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 6.5 dBi
Limit: 11dBm – (6.02– 6dBi)=10.50

Note: 5.47-5.725G

Antenna1 Gain: 4.2 dBi
Antenna2 Gain: 4.2 dBi
Number Antenna: 2 pcs
Limit: 11 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 7.21 dBi
Limit: 11dBm – (7.21– 6dBi)=9.79

Note: 5.725-5.850G

Antenna1 Gain: 4.37 dBi
Antenna2 Gain: 4.37 dBi
Number Antenna: 2 pcs
Limit: 30 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 7.21 dBi
Limit: 30dBm – (7.38– 6dBi)=28.62

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10.2 Measurement Procedure

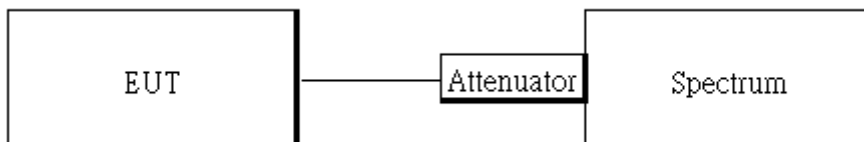
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz,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

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

10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-11.55	16.5	-28.05
5220	-11.08	16.5	-27.58
5240	-13.08	16.5	-29.58
5260	-13.39	10.5	-23.89
5300	-14.10	10.5	-24.60
5320	-15.14	10.5	-25.64
5500	-14.22	9.79	-24.01
5580	-13.06	9.79	-22.85
5700	-14.41	9.79	-24.20
5745	-3.11	28.62	-31.73
5785	-4.69	28.62	-33.31
5825	-4.52	28.62	-33.14

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-12.72	16.5	-29.22
5220	-12.39	16.5	-28.89
5240	-12.77	16.5	-29.27
5260	-13.54	10.5	-24.04
5300	-15.05	10.5	-25.55
5320	-14.40	10.5	-24.90
5500	-12.84	9.79	-22.63
5580	-13.09	9.79	-22.88
5700	-12.97	9.79	-22.76
5745	-2.83	28.62	-31.45
5785	-4.07	28.62	-32.69
5825	-5.10	28.62	-33.72

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-10.12	16.5	-26.62
5230	-10.17	16.5	-26.67
5270	-11.18	10.5	-21.68
5310	-11.35	10.5	-21.85
5510	-10.24	9.79	-20.03
5550	-9.94	9.79	-19.73
5670	-9.34	9.79	-19.13
5755	-1.91	28.62	-30.53
5795	-2.70	28.62	-31.32

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-9.56	16.5	-26.06
5290	-8.06	10.5	-18.56
5530	-7.96	9.79	-17.75
5610	-8.54	9.79	-18.33
5775	-2.23	28.62	-30.85

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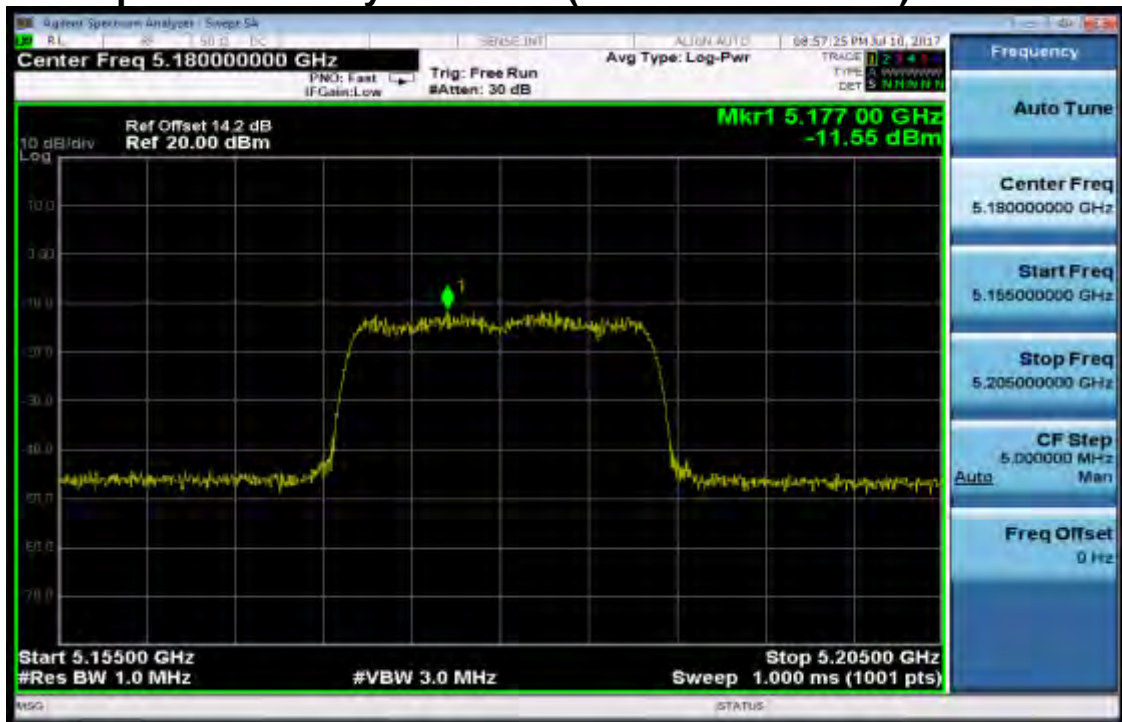
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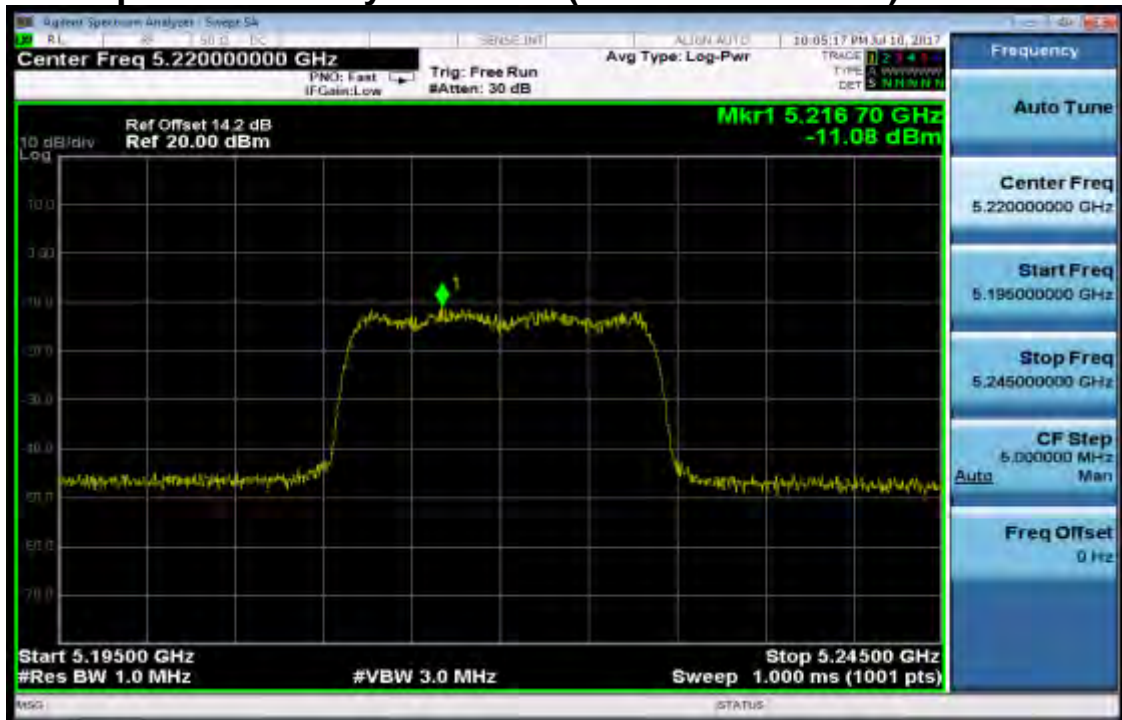
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802.11a 5150~5250 MHz Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



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



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



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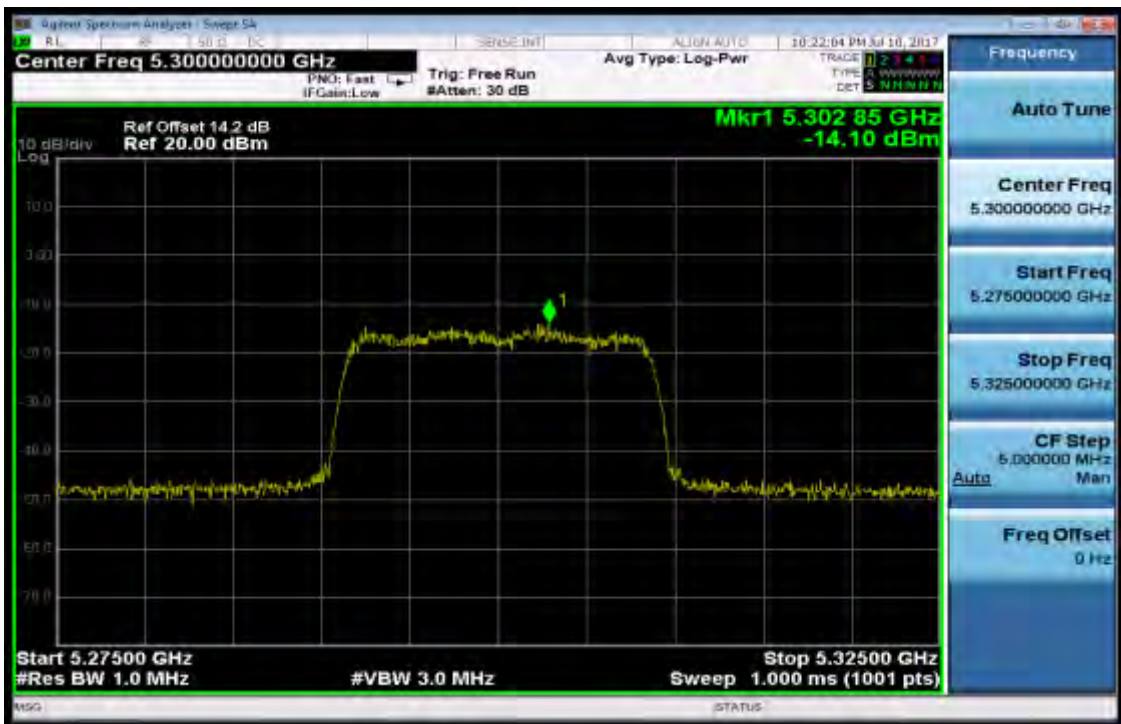
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802.11a 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



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



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



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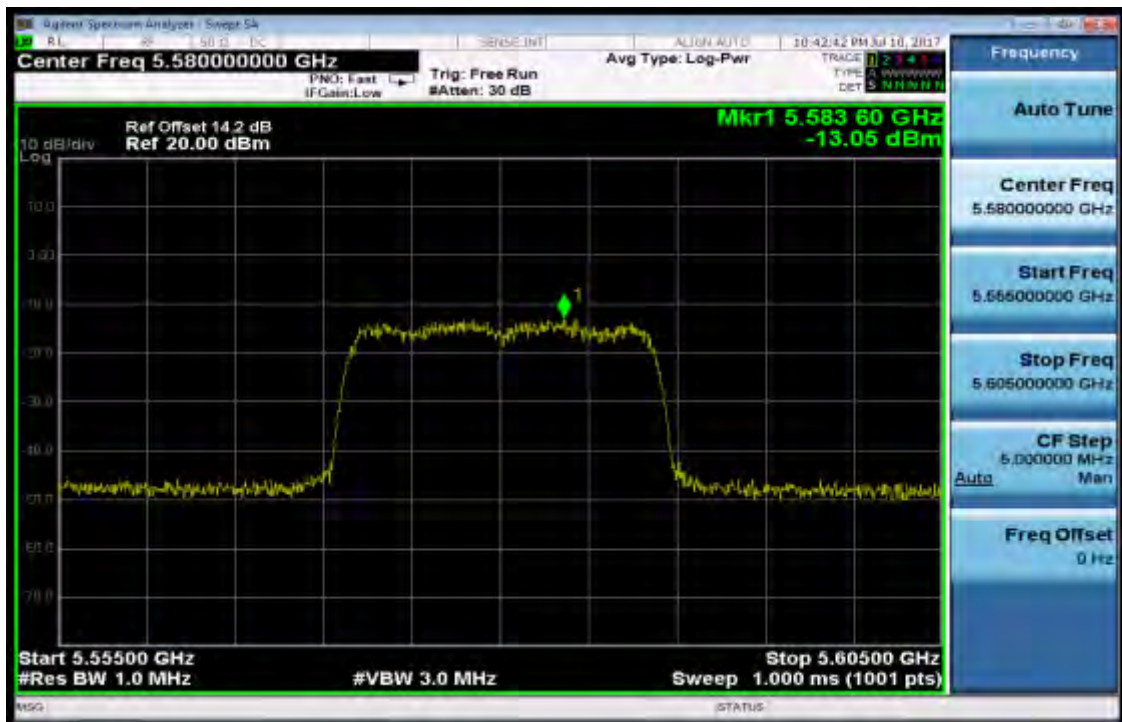
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802.11a 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



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



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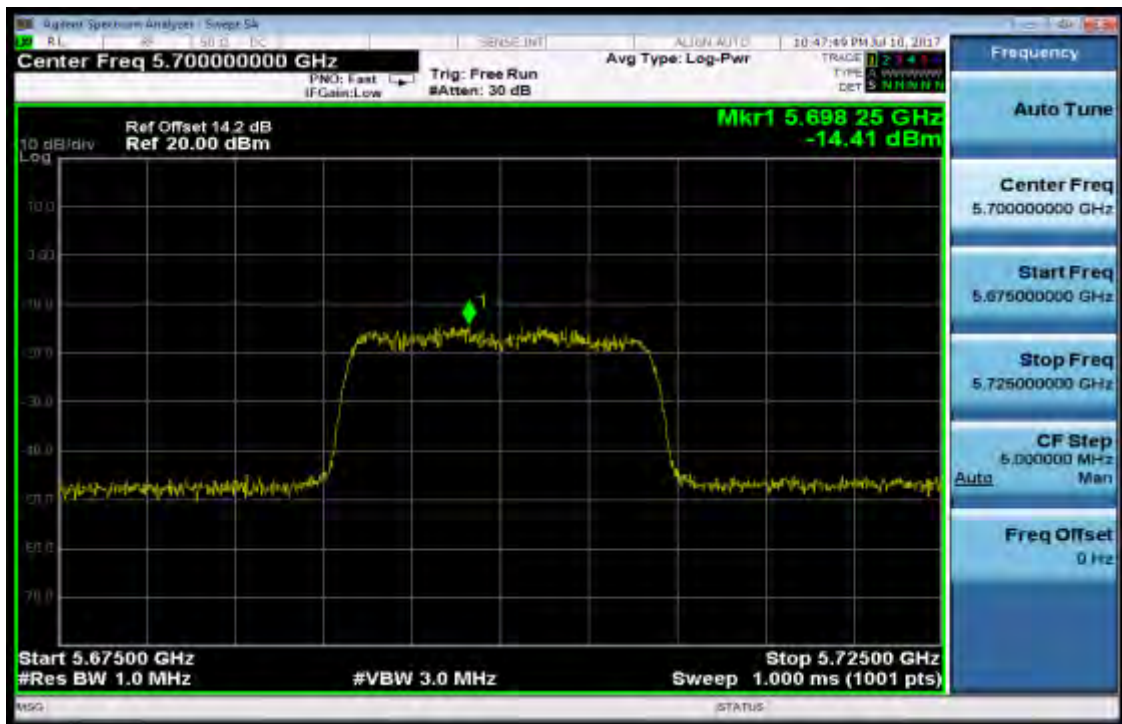
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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802.11a 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



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



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



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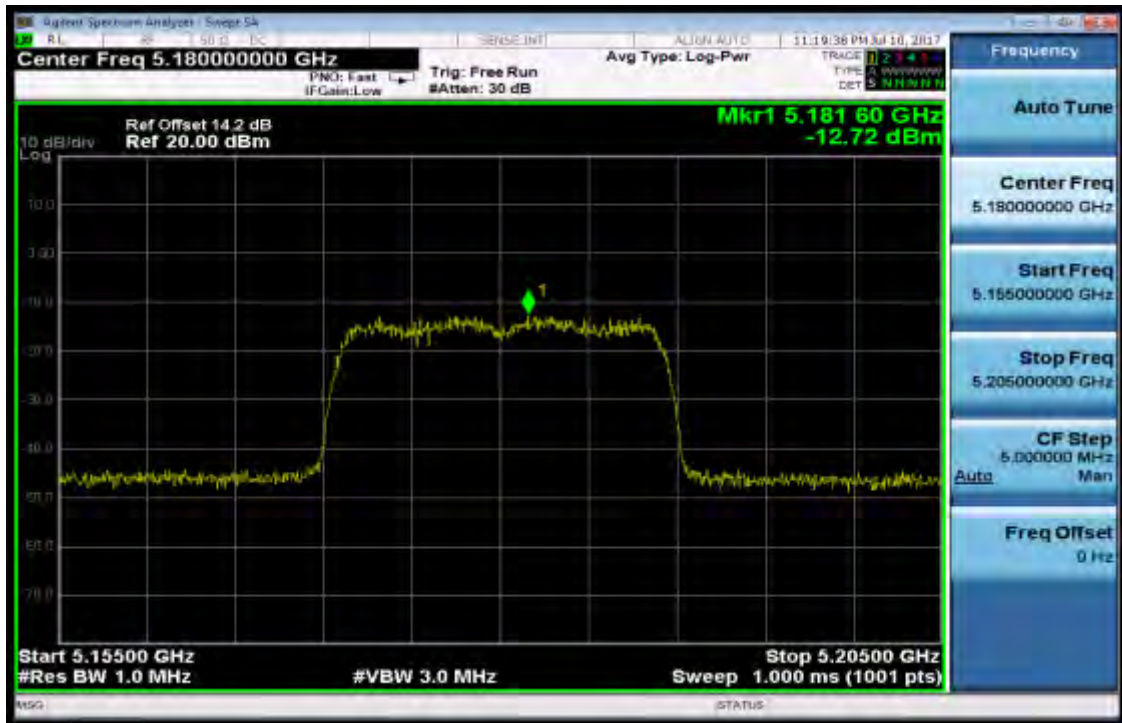
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802.11n HT20, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



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



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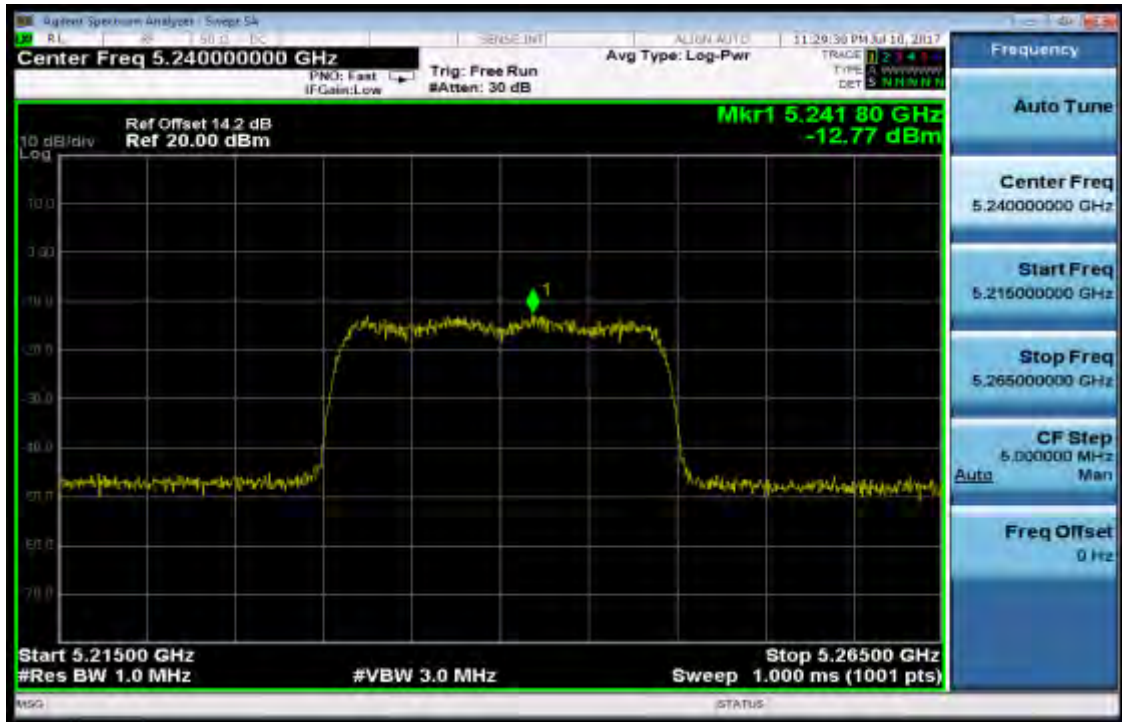
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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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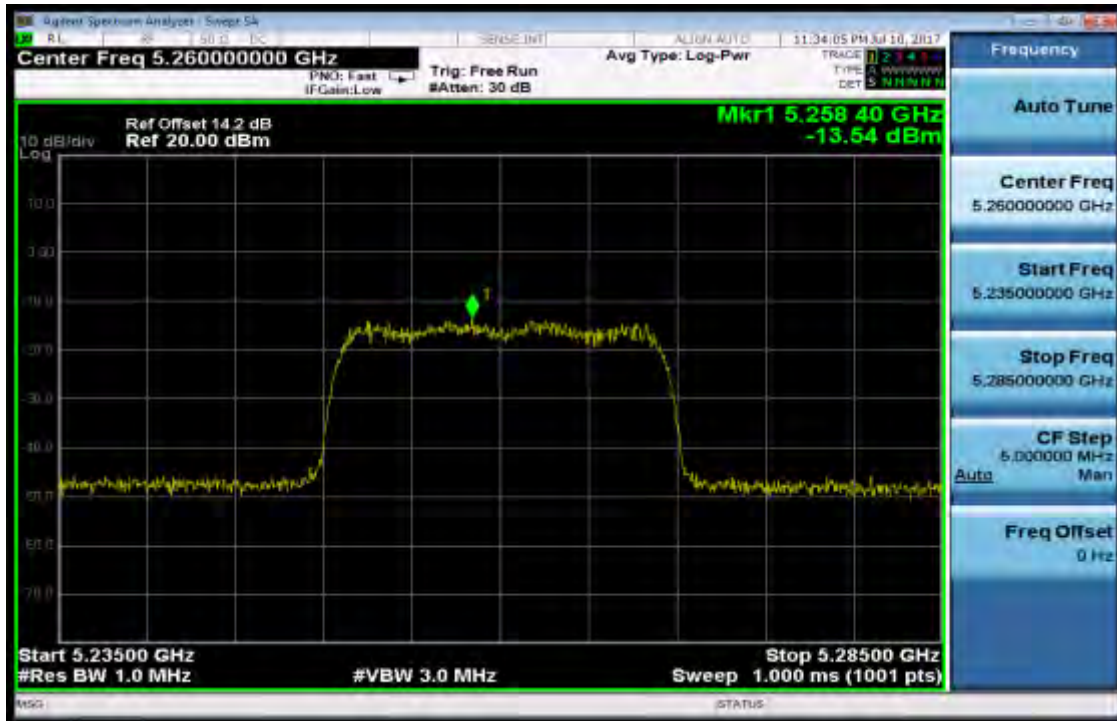
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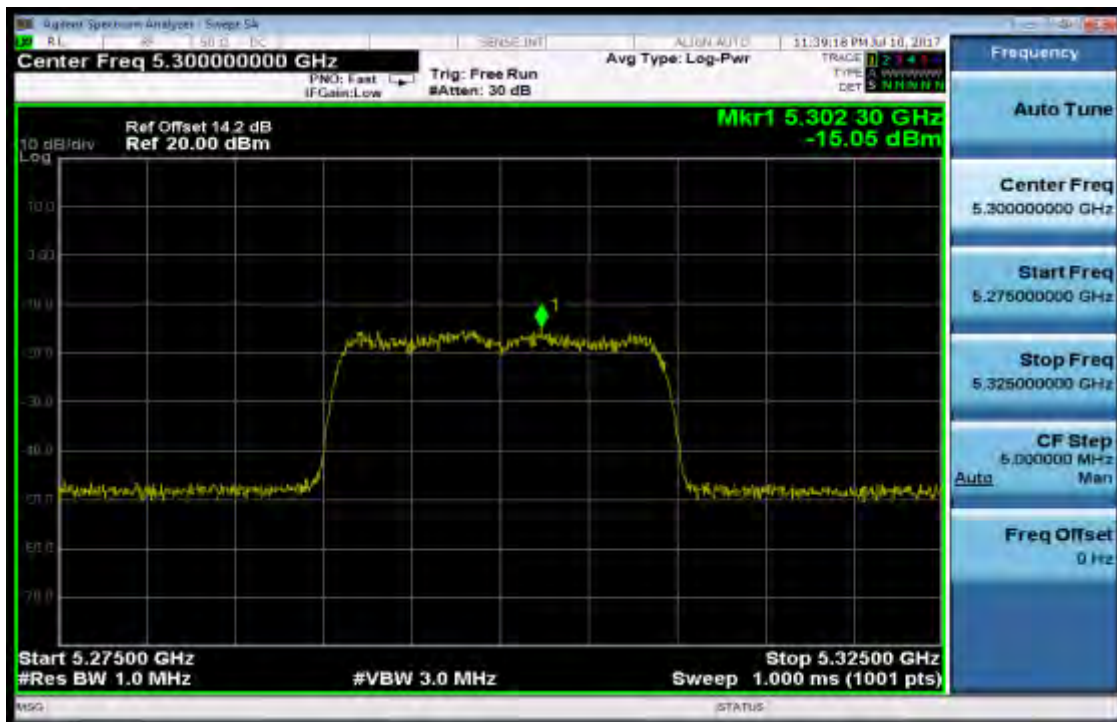
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802.11n HT20, 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5260MHz)

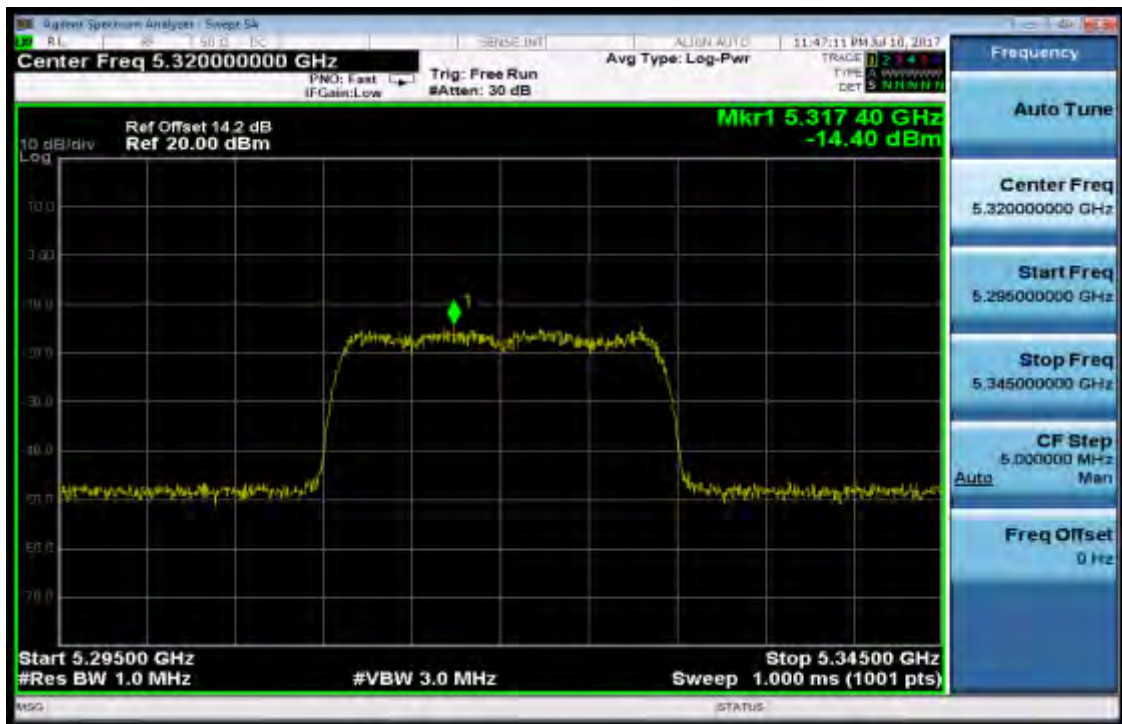


Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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



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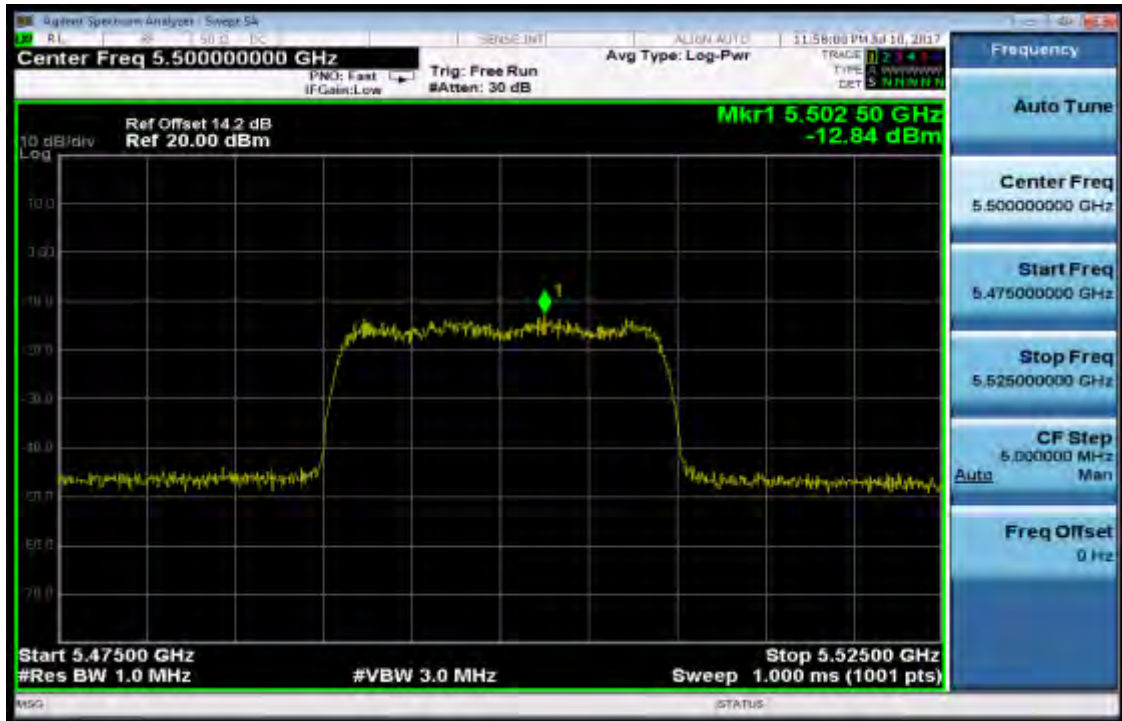
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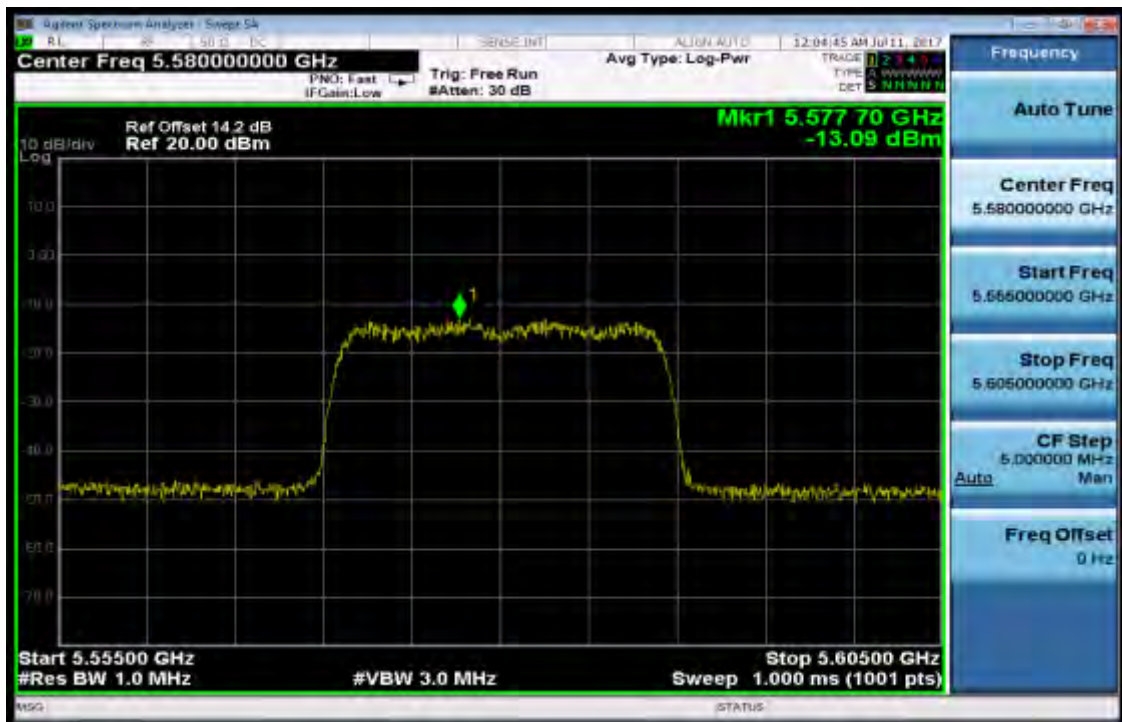
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802.11n HT20, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



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



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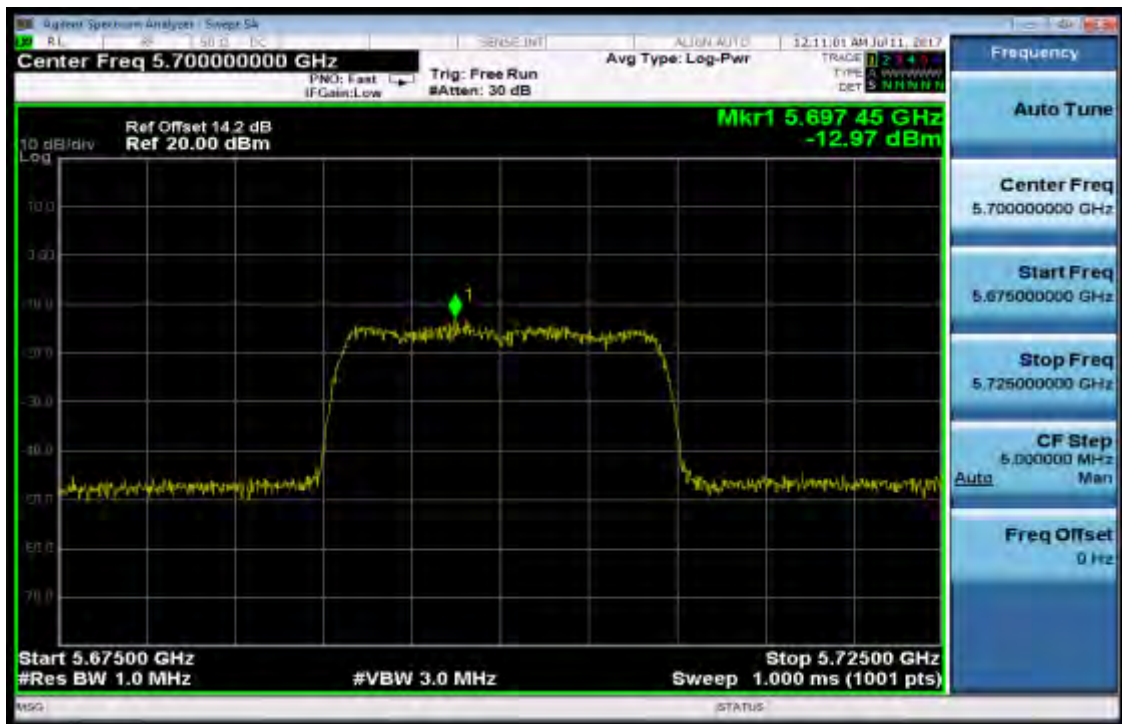
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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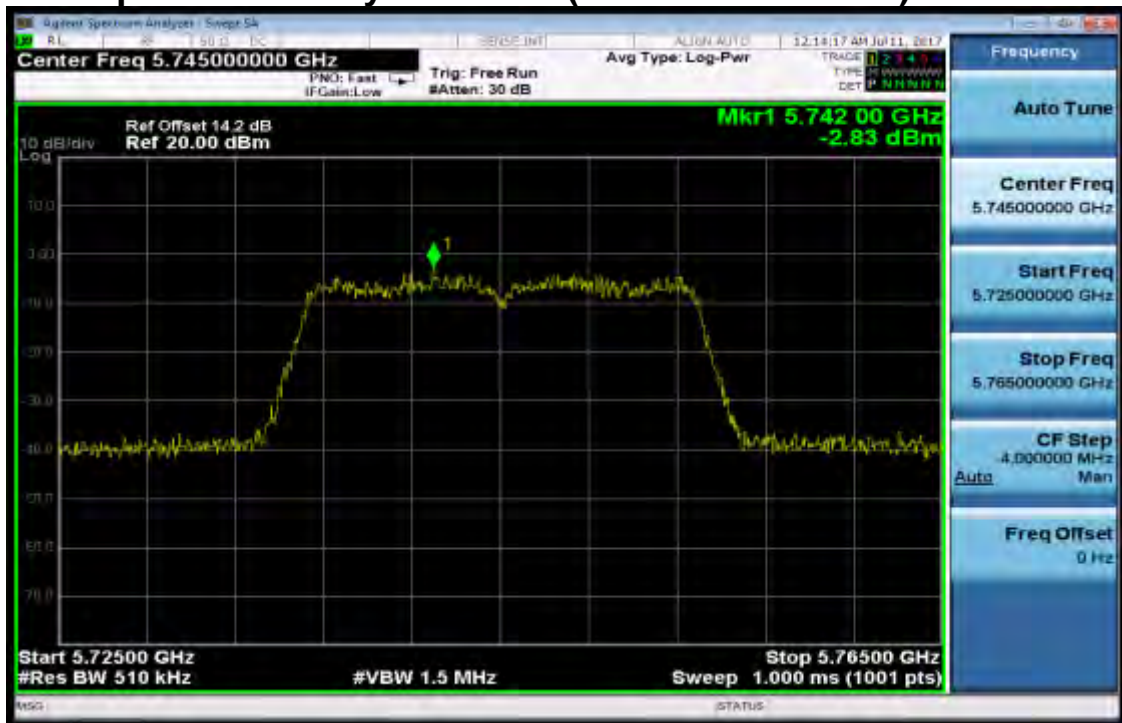
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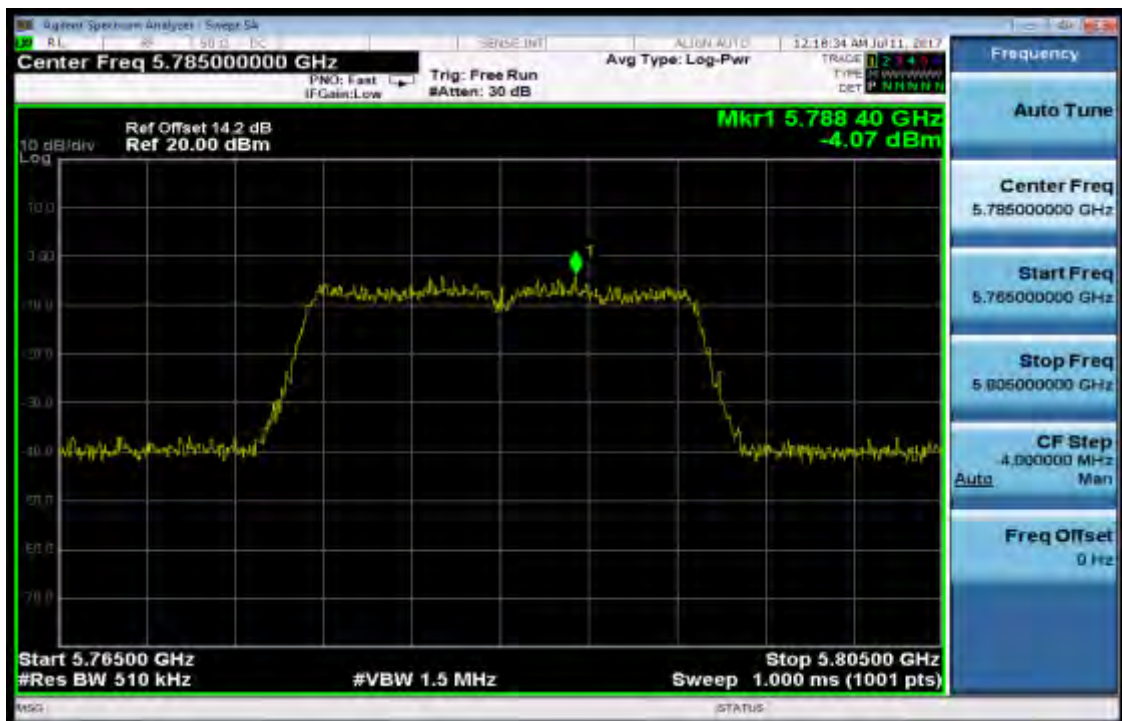
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802.11n HT20, 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



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



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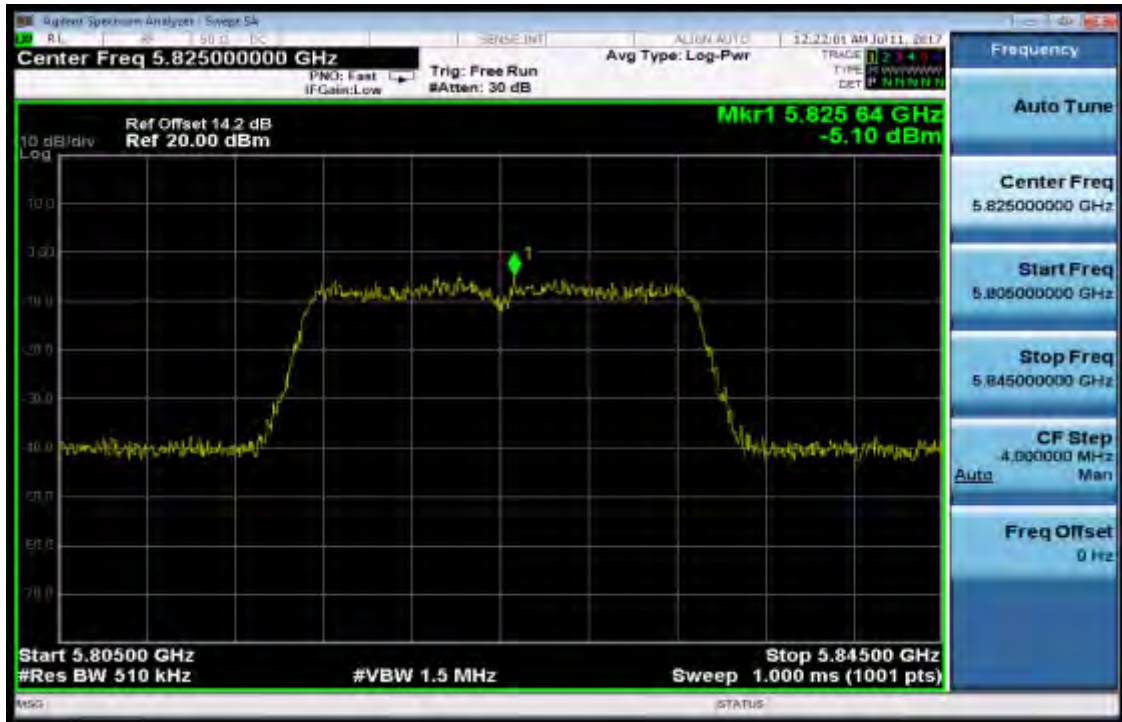
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Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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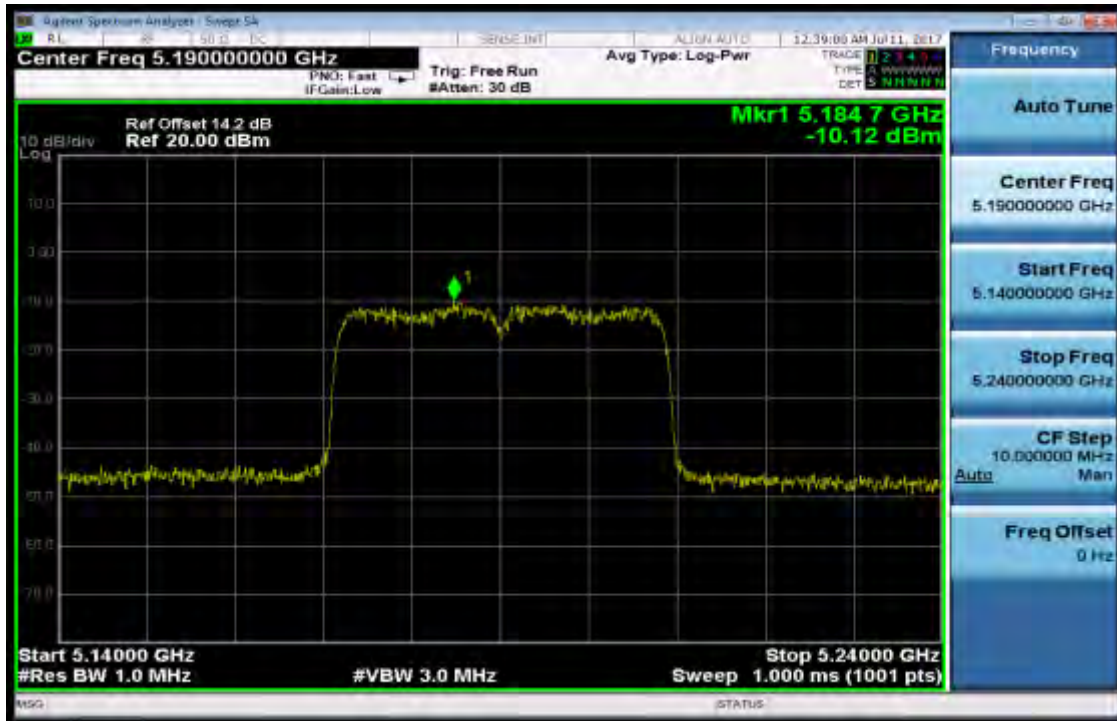
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802.11n HT40, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



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



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802.11n HT40, 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



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



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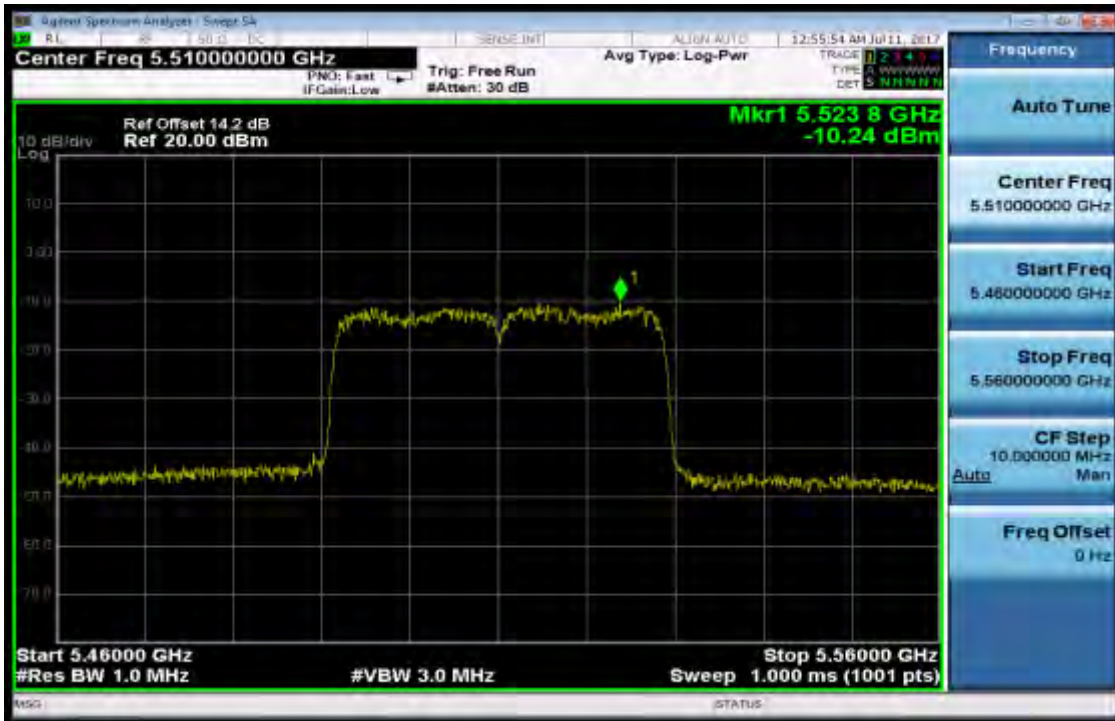
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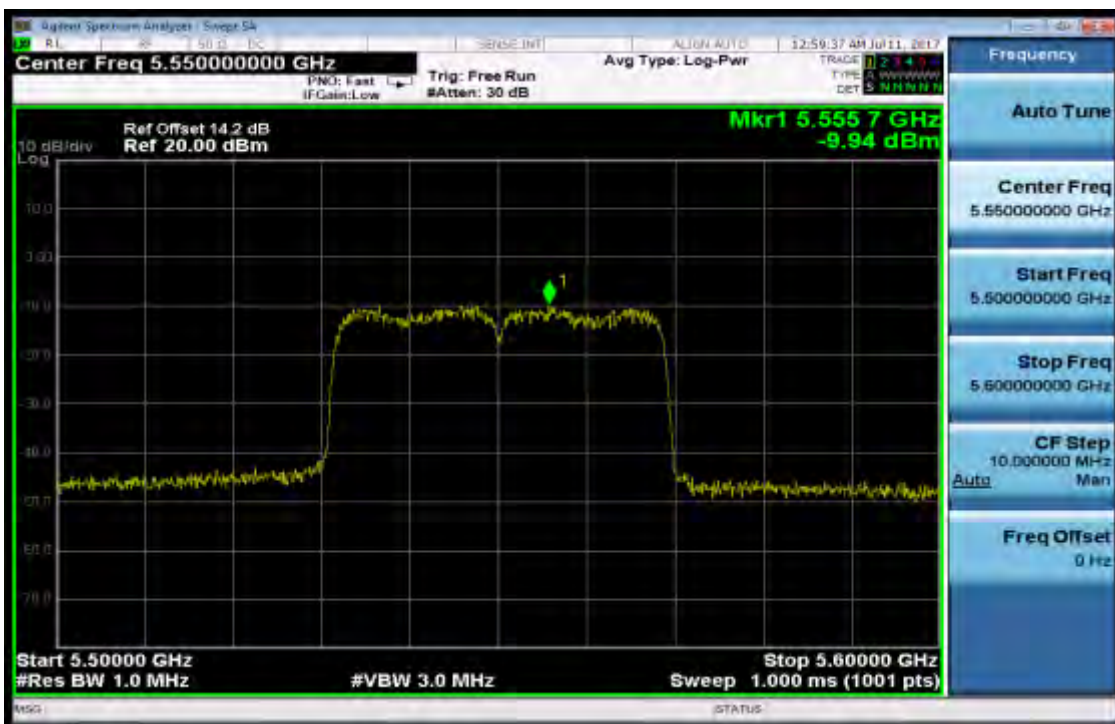
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802.11n HT40, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



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



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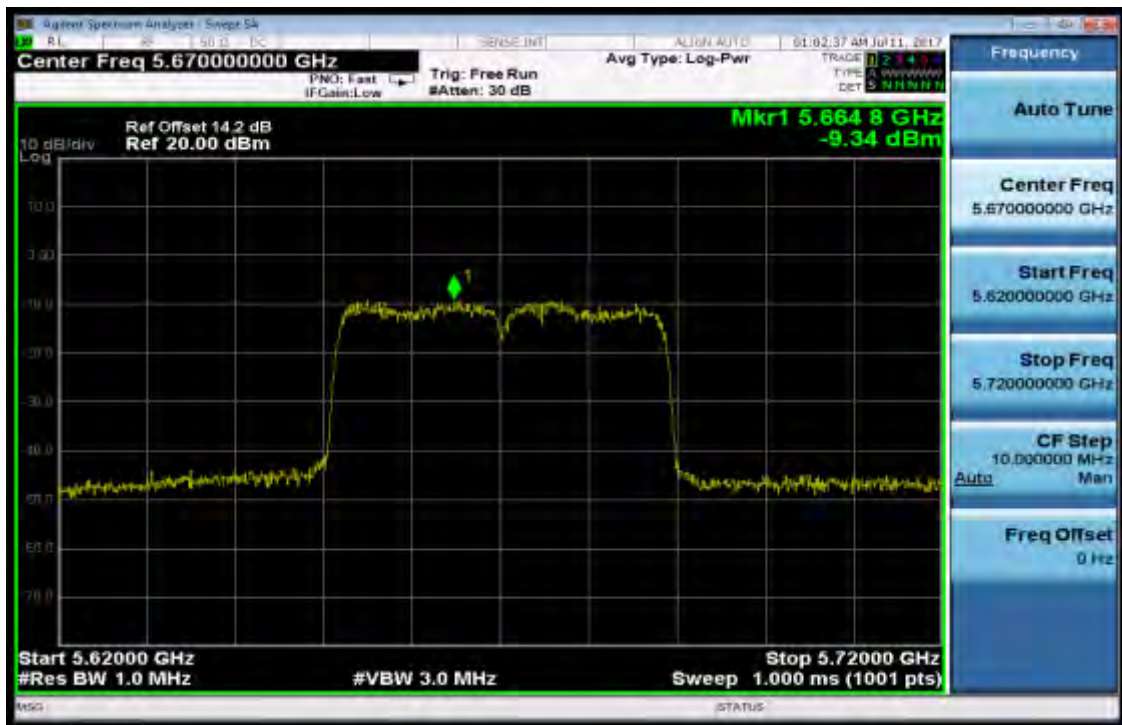
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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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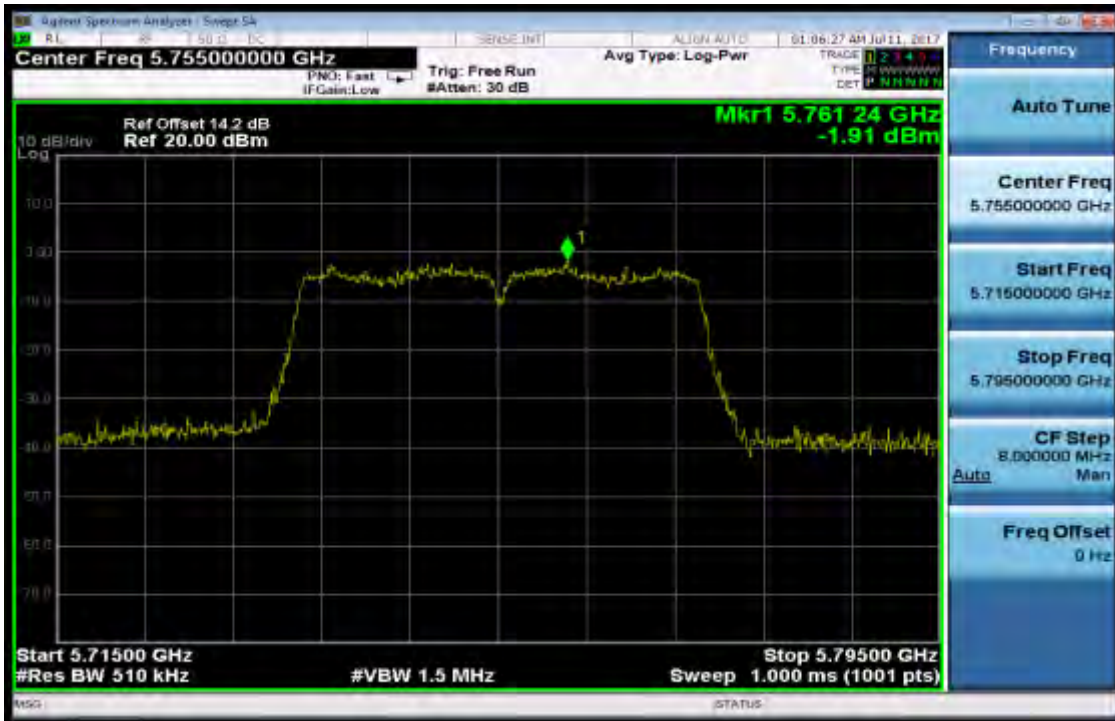
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802.11n HT40, 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



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



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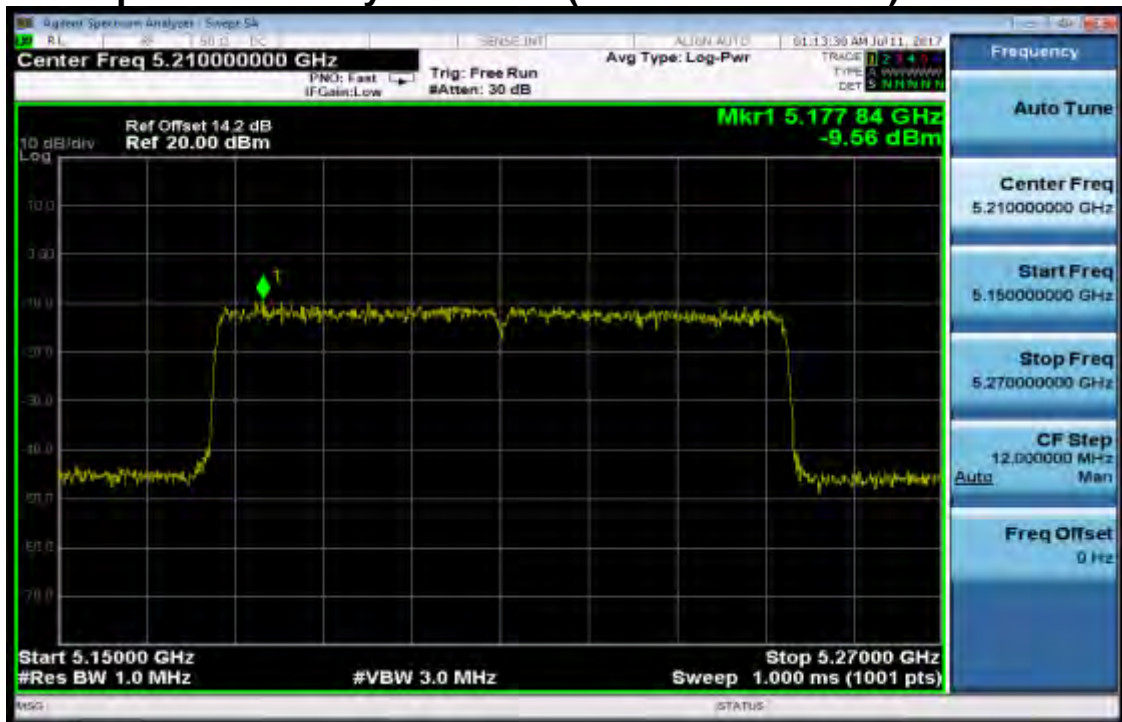
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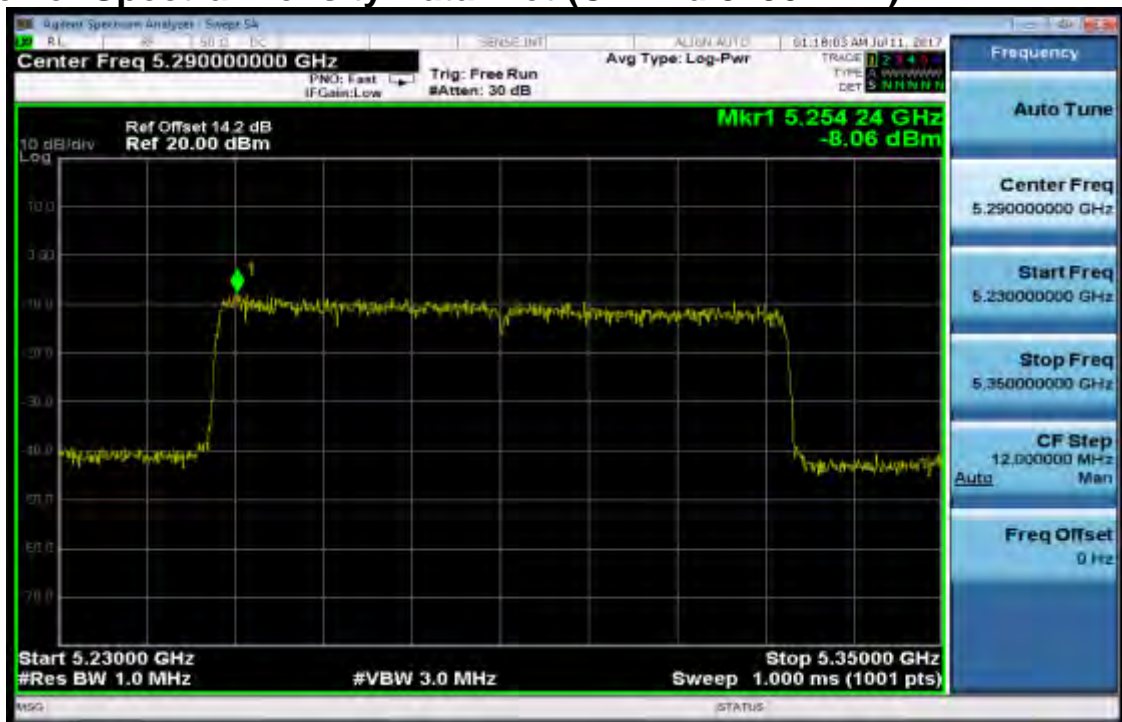
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**802.11ac VHT80, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Mid 5210 MHz)**



**802.11ac VHT80, 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Mid 5290 MHz)**



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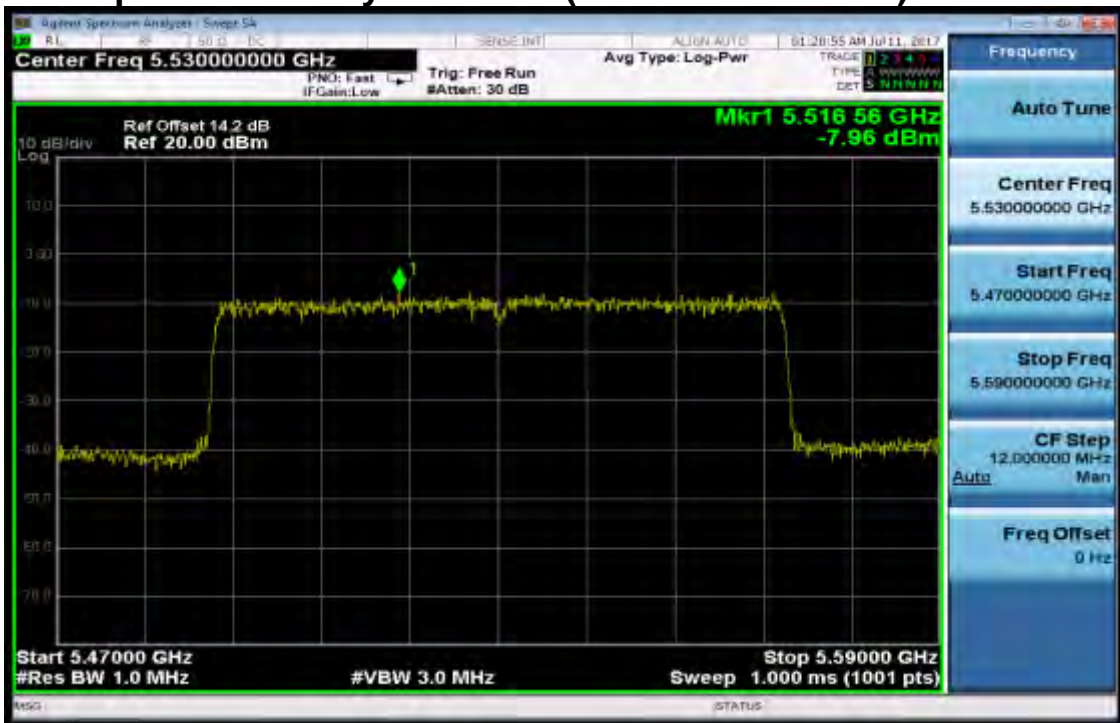
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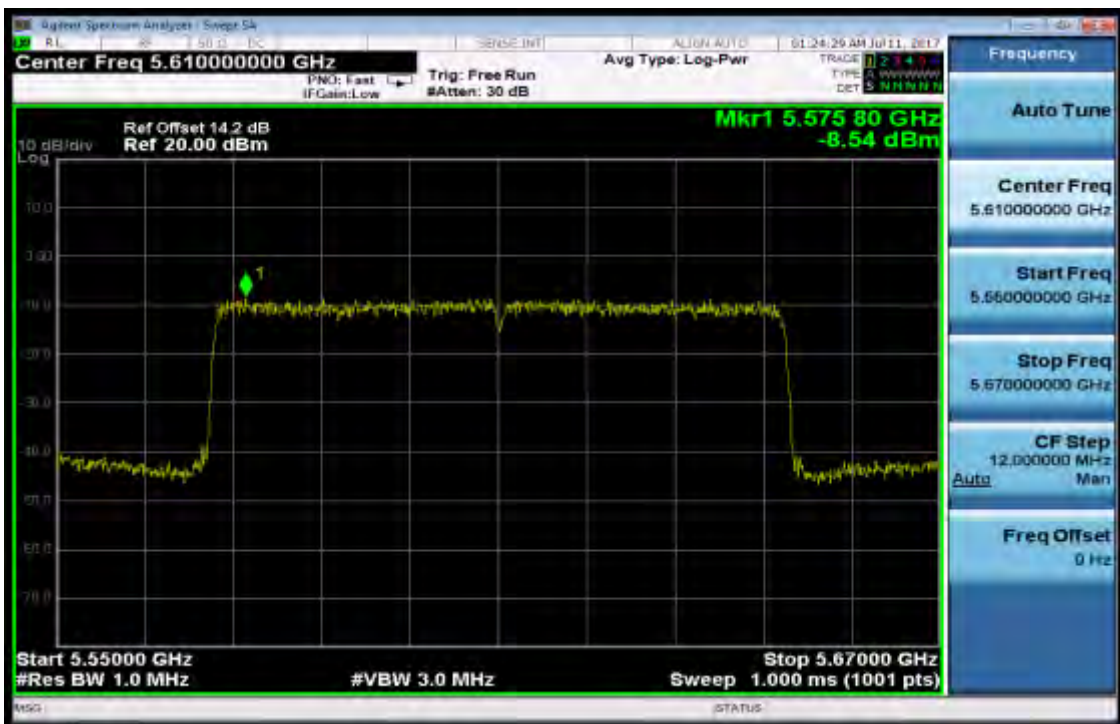
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802.11ac VHT80, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5530 MHz)



802.11ac VHT80, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH High 5610 MHz)



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802.11ac VHT80, 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



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11. UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
RSS-247 6.2.4 (2)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
	PK: -17 (dBm/MHz)	PK: 78.2 (dBμV/m)
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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

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

Note:

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

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11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2016	12/22/2017
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2016	07/23/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018
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.

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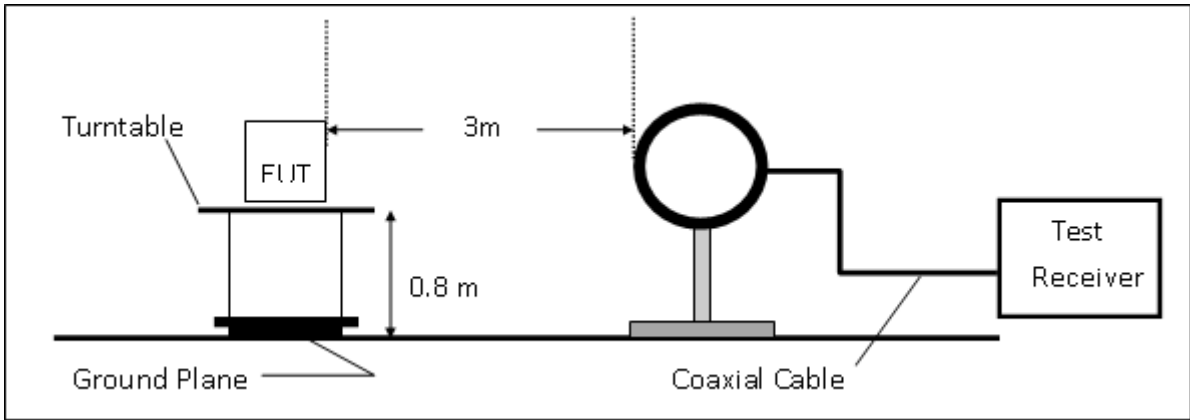
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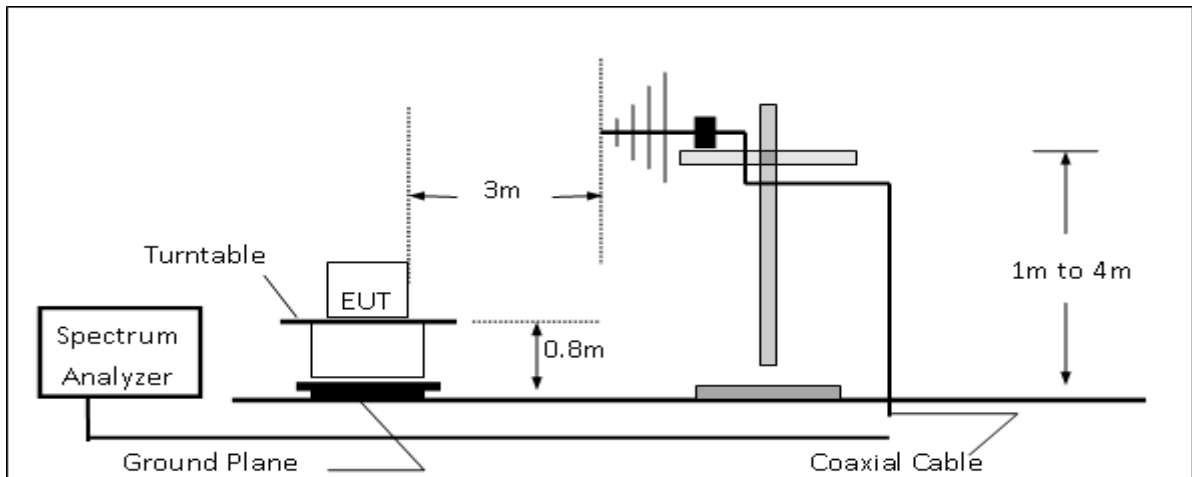
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11.3 Test SET-UP

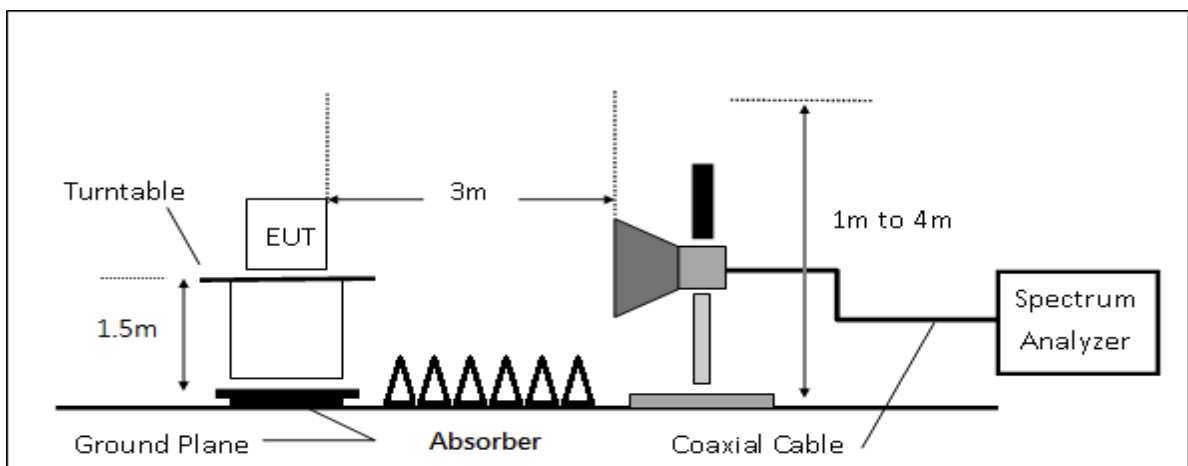
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

11.5 Field Strength Calculation

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

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

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

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

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

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Note :

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

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

11.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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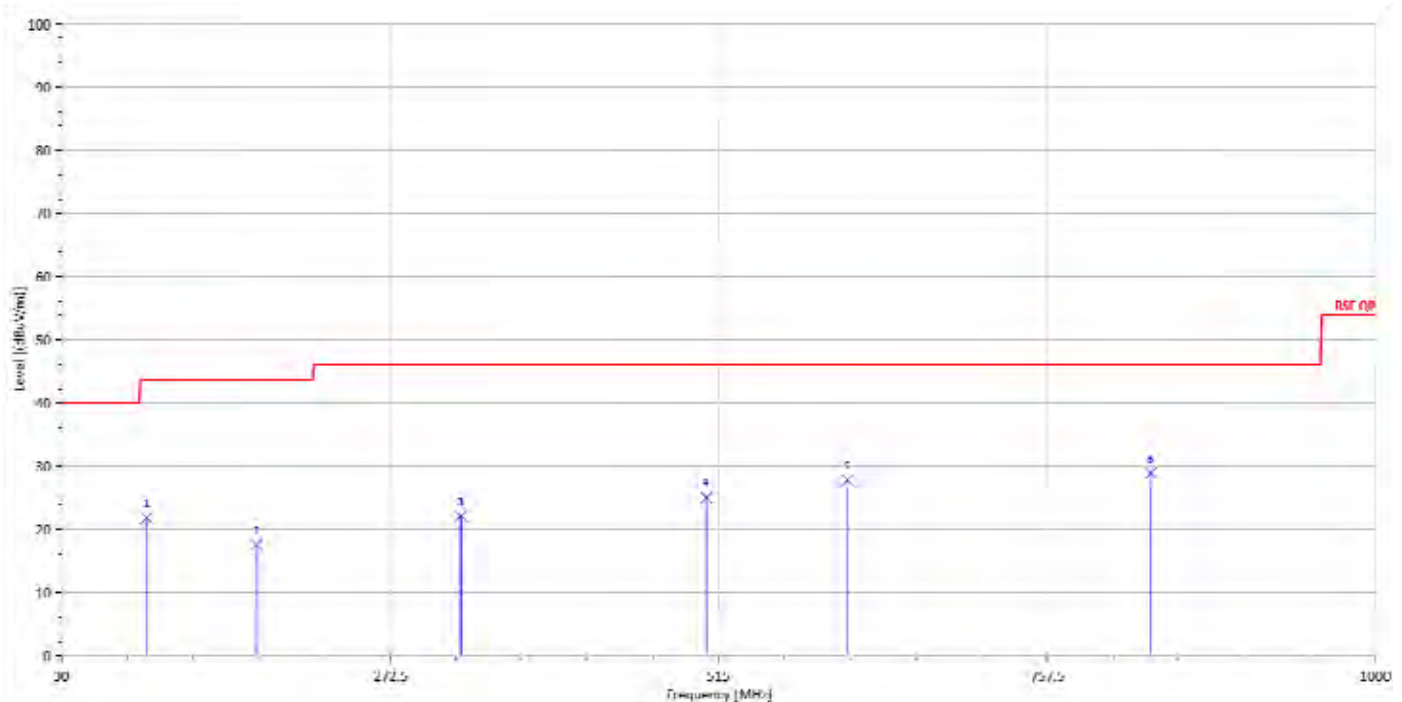
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11a	Test Date :	2017/7/6
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	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
93.05	S	Peak	40.78	-18.95	21.82	43.5	-21.68
174.53	S	Peak	35.94	-18.42	17.52	43.5	-25.98
324.88	S	Peak	34.06	-11.95	22.11	46	-23.89
506.27	S	Peak	33.12	-8.08	25.05	46	-20.95
610.06	S	Peak	34.45	-6.75	27.70	46	-18.30
834.13	S	Peak	31.75	-2.89	28.86	46	-17.14

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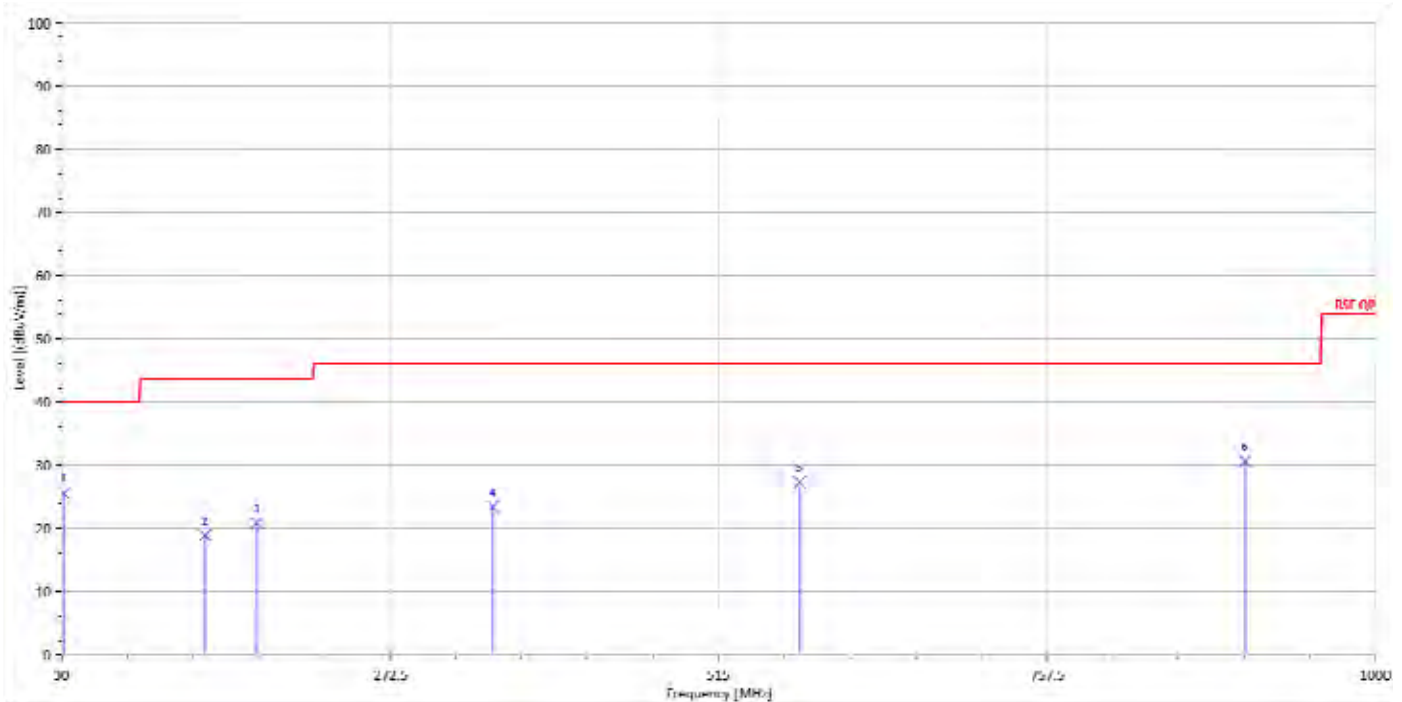
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Operation Mode : 802.11a Test Date : 2017/7/6
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
31.94	S	Peak	33.78	-8.22	25.56	40	-14.44
135.73	S	Peak	34.60	-15.73	18.88	43.5	-24.62
174.53	S	Peak	39.27	-18.42	20.86	43.5	-22.64
348.16	S	Peak	35.01	-11.60	23.40	46	-22.60
575.14	S	Peak	33.51	-6.24	27.26	46	-18.74
903.97	S	Peak	32.35	-1.79	30.56	46	-15.44

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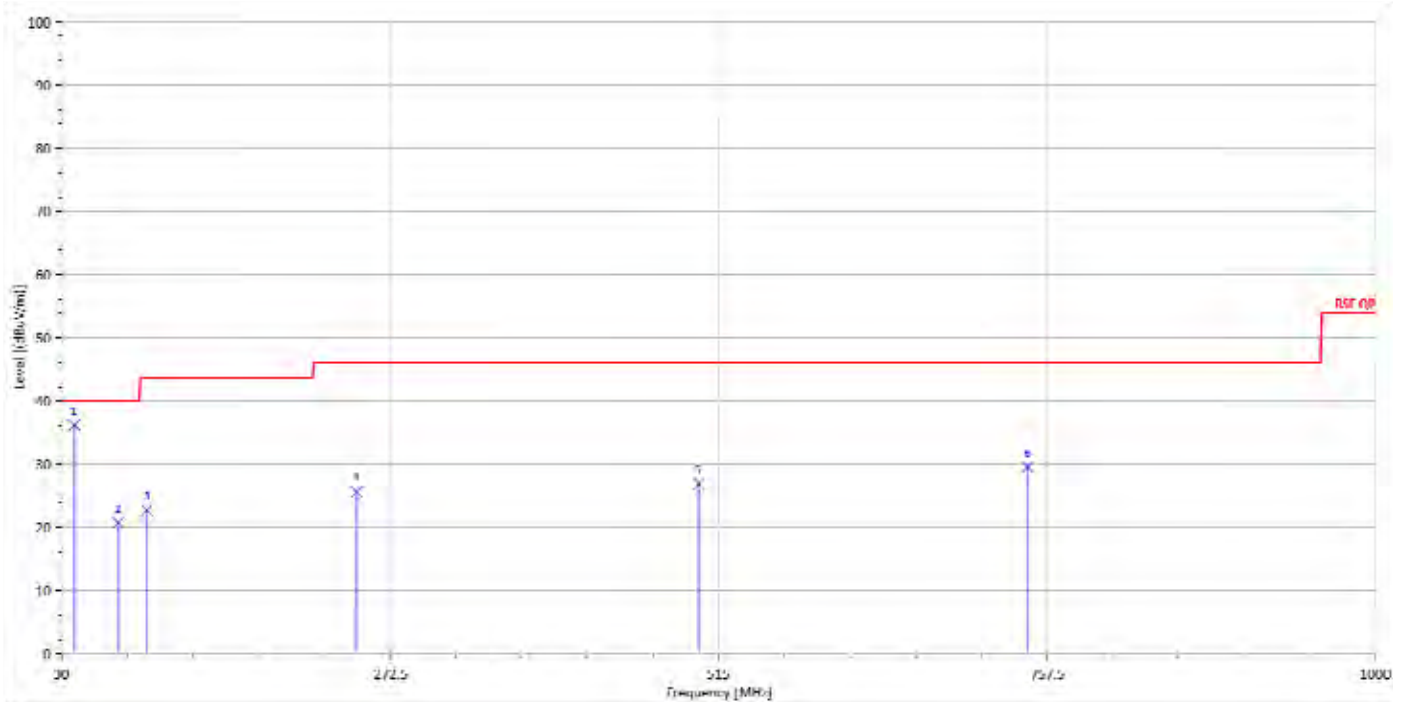
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802.11a 5250~5350 MHz

Operation Mode :	802.11a	Test Date :	2017/7/6
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	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
39.70	S	Peak	48.82	-12.63	36.19	40	-3.81
71.71	S	Peak	42.37	-21.65	20.72	40	-19.28
93.05	S	Peak	41.66	-18.95	22.70	43.5	-20.80
248.25	S	Peak	40.32	-14.71	25.62	46	-20.38
500.45	S	Peak	34.40	-7.53	26.87	46	-19.13
742.95	S	Peak	33.69	-4.24	29.46	46	-16.54

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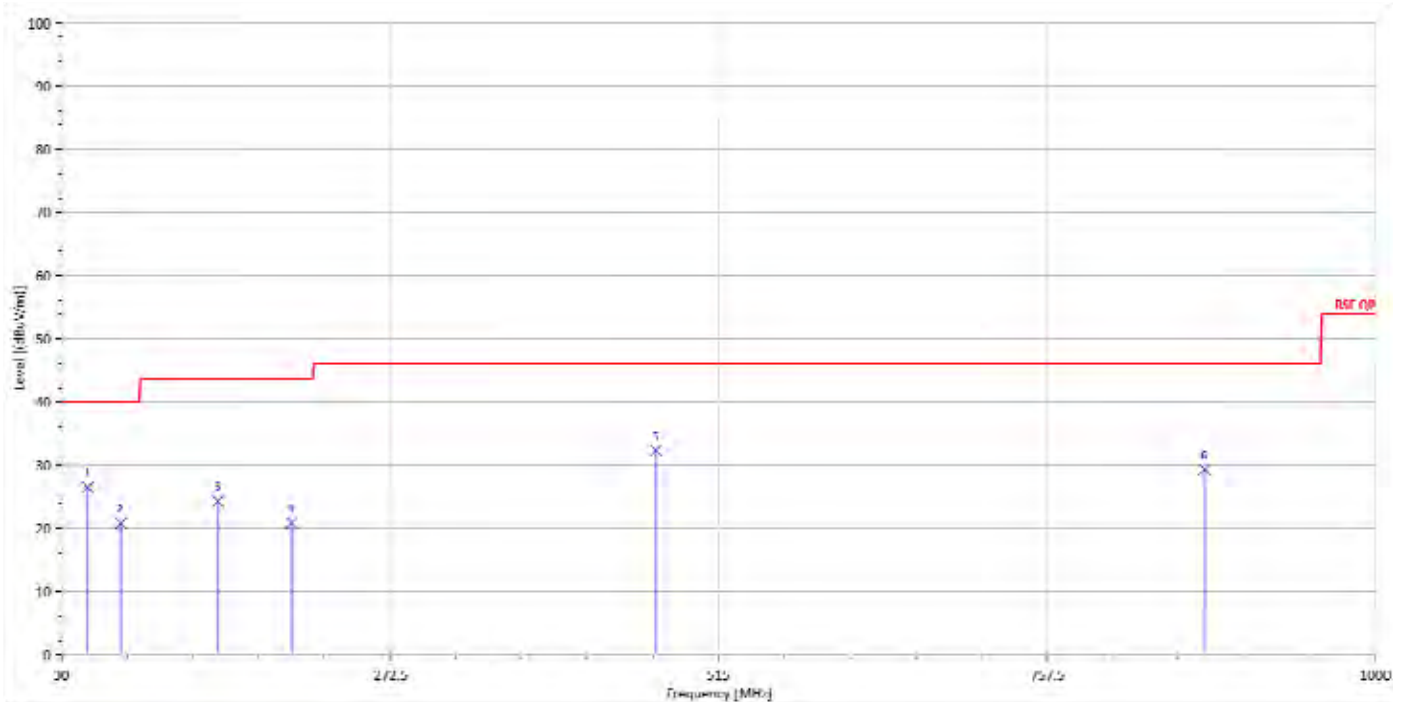
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Operation Mode : 802.11a Test Date : 2017/7/6
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
49.40	S	Peak	45.52	-19.04	26.48	40	-13.52
73.65	S	Peak	42.24	-21.46	20.78	40	-19.22
145.43	S	Peak	40.70	-16.39	24.31	43.5	-19.19
199.75	S	Peak	38.35	-17.51	20.84	43.5	-22.66
468.44	S	Peak	39.96	-7.66	32.30	46	-13.70
873.90	S	Peak	31.98	-2.72	29.27	46	-16.73

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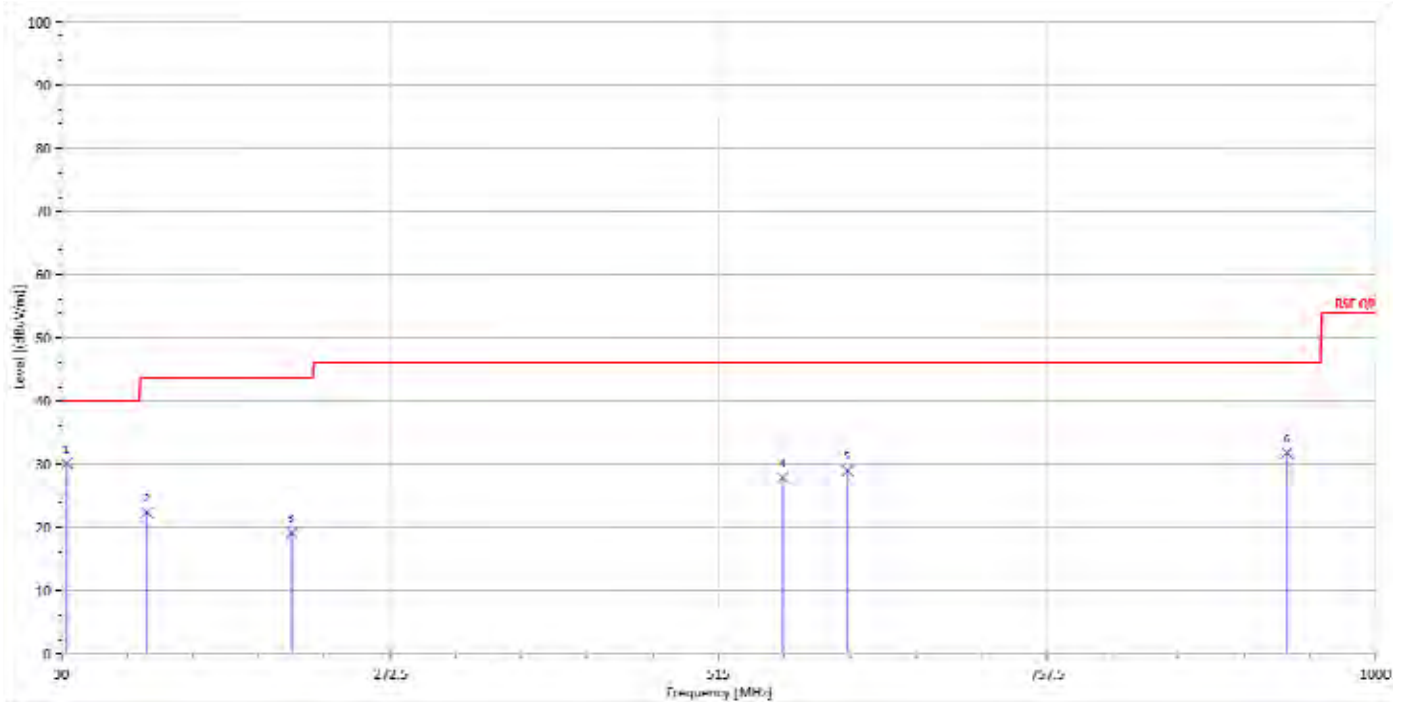
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802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2017/7/6
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	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
33.88	S	Peak	39.30	-9.27	30.02	40	-9.98
93.05	S	Peak	41.30	-18.95	22.34	43.5	-21.16
199.75	S	Peak	36.60	-17.51	19.09	43.5	-24.41
562.53	S	Peak	34.09	-6.30	27.78	46	-18.22
610.06	S	Peak	35.64	-6.75	28.89	46	-17.11
935.01	S	Peak	33.36	-1.59	31.77	46	-14.23

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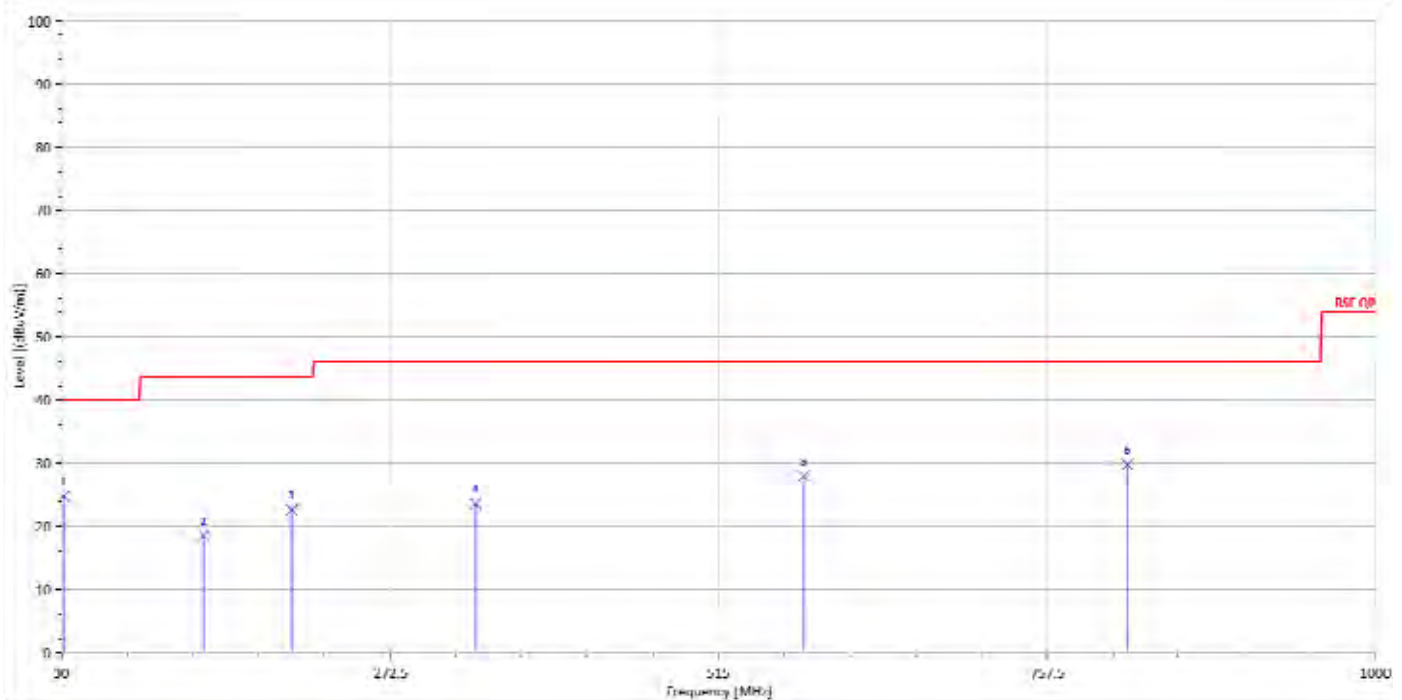
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Operation Mode : 802.11a Test Date : 2017/7/6
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
31.94	S	Peak	33.03	-8.22	24.81	40	-15.19
134.76	S	Peak	34.24	-15.77	18.47	43.5	-25.03
199.75	S	Peak	40.12	-17.51	22.60	43.5	-20.90
335.55	S	Peak	35.48	-11.88	23.60	46	-22.40
578.05	S	Peak	34.34	-6.45	27.88	46	-18.12
816.67	S	Peak	32.87	-3.18	29.69	46	-16.31

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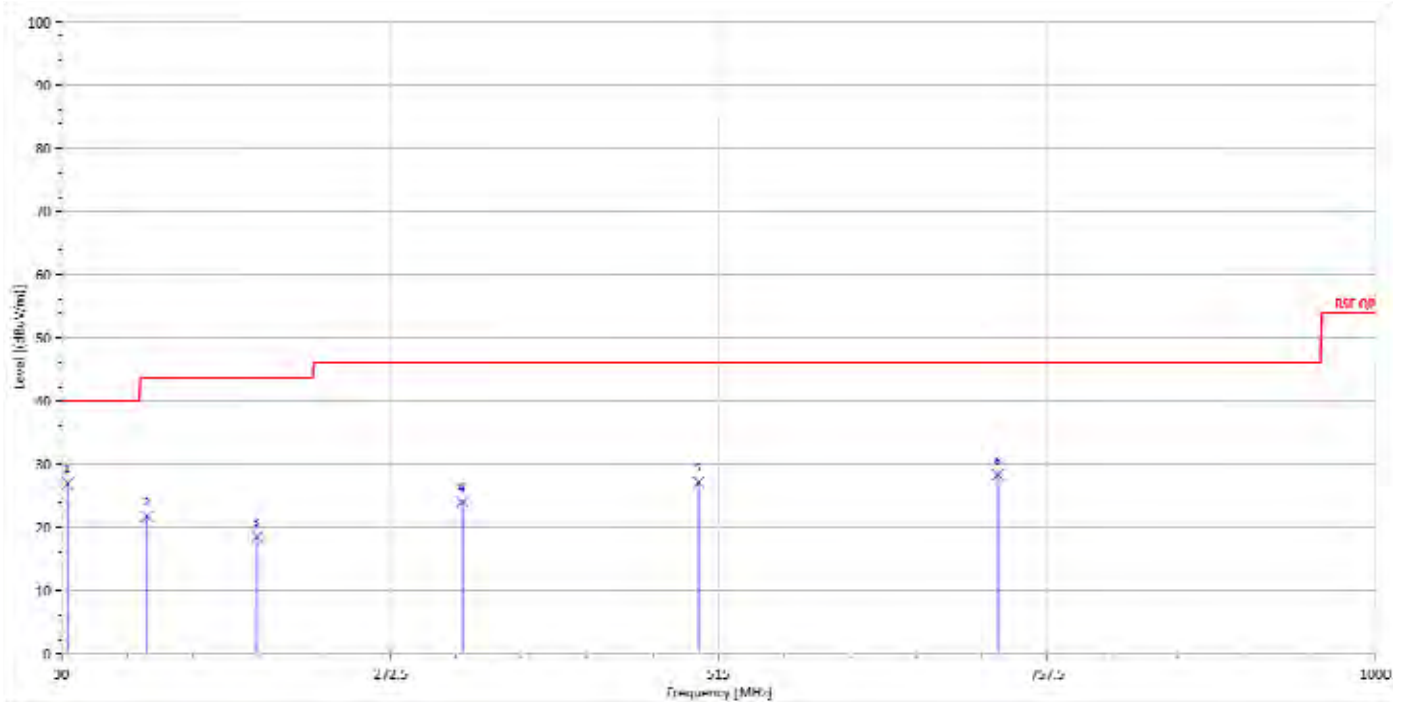
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802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2017/7/6
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	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
34.85	S	Peak	36.70	-9.78	26.91	40	-13.09
93.05	S	Peak	40.64	-18.95	21.69	43.5	-21.81
174.53	S	Peak	36.88	-18.42	18.46	43.5	-25.04
325.85	S	Peak	36.08	-12.05	24.03	46	-21.97
500.45	S	Peak	34.61	-7.53	27.08	46	-18.92
721.61	S	Peak	33.16	-4.92	28.24	46	-17.76

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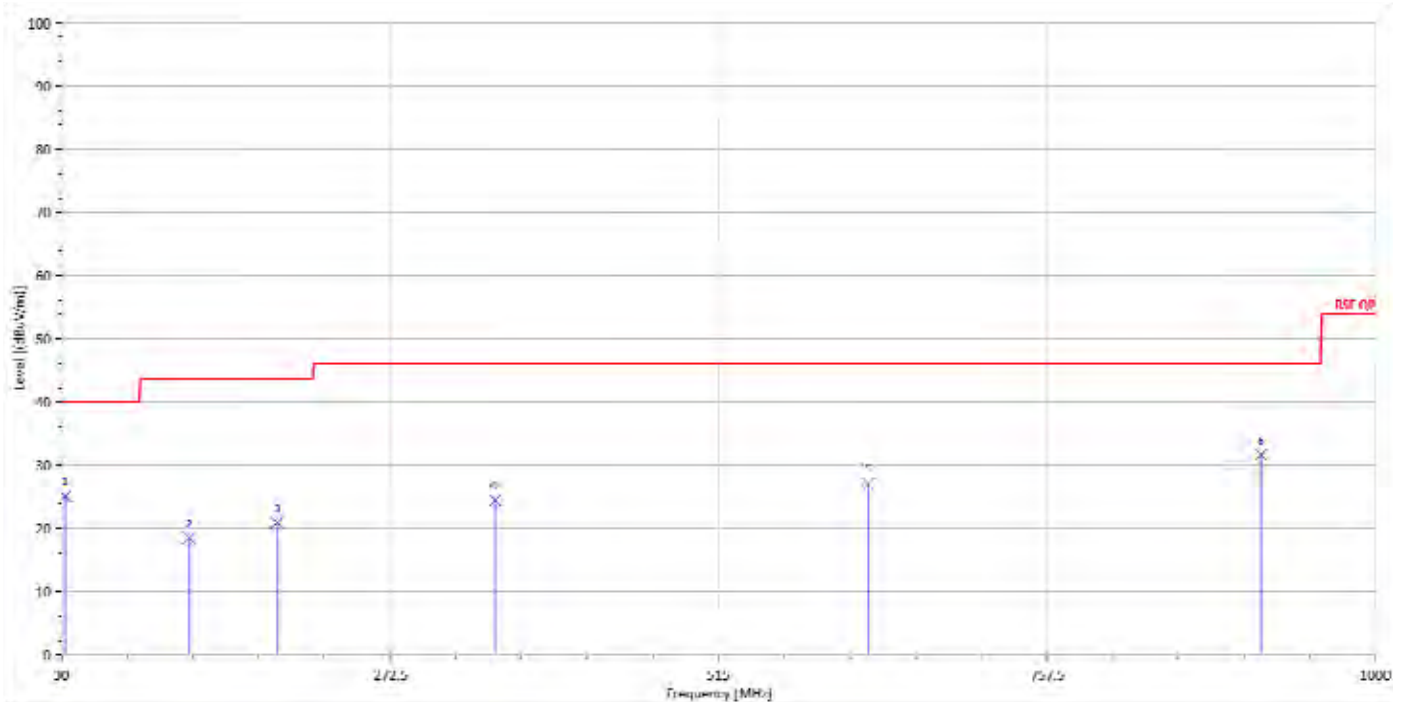
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Operation Mode : 802.11a Test Date : 2017/7/6
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
32.91	S	Peak	33.86	-8.75	25.12	40	-14.88
124.09	S	Peak	34.18	-15.75	18.44	43.5	-25.06
189.08	S	Peak	39.28	-18.38	20.90	43.5	-22.60
350.10	S	Peak	36.02	-11.55	24.47	46	-21.53
625.58	S	Peak	33.14	-6.10	27.04	46	-18.96
915.61	S	Peak	33.25	-1.67	31.58	46	-14.42

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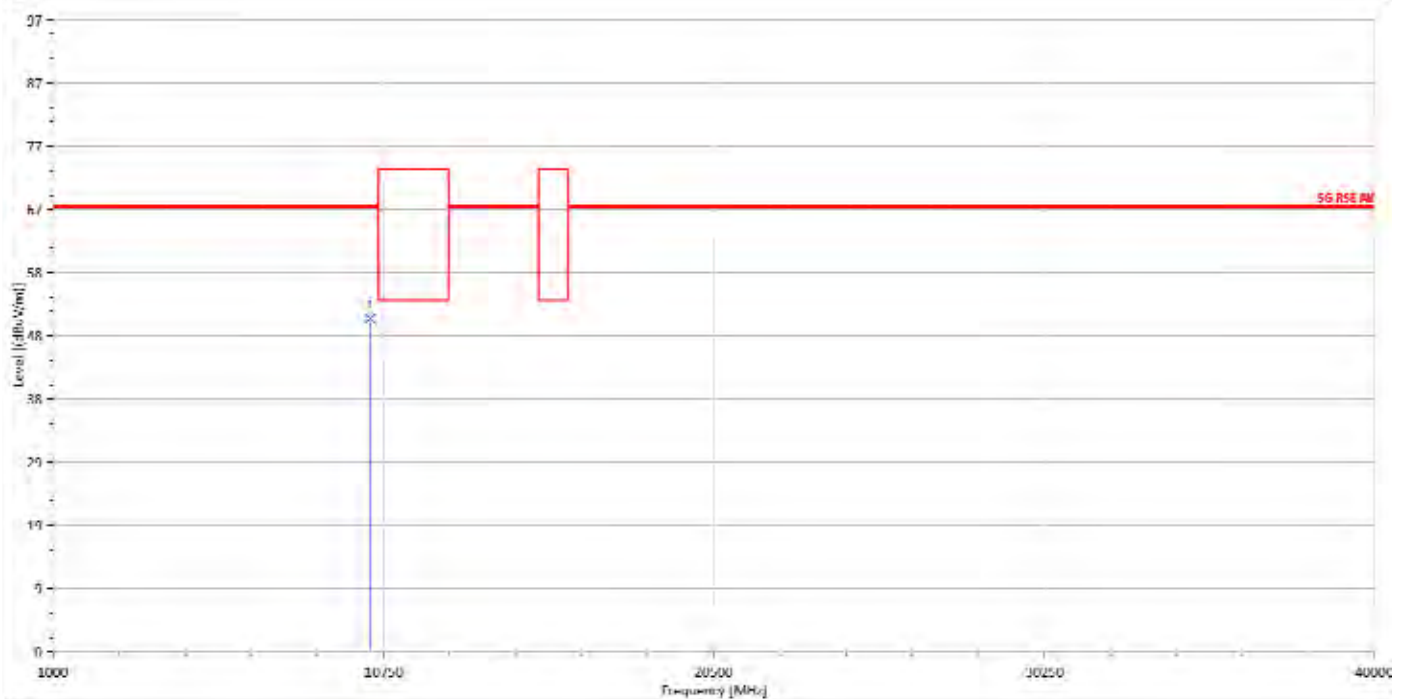
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Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11a	Test Date :	2017/6/17
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
10360.00	H	Peak	30.98	20.18	51.16	68.3	-17.14

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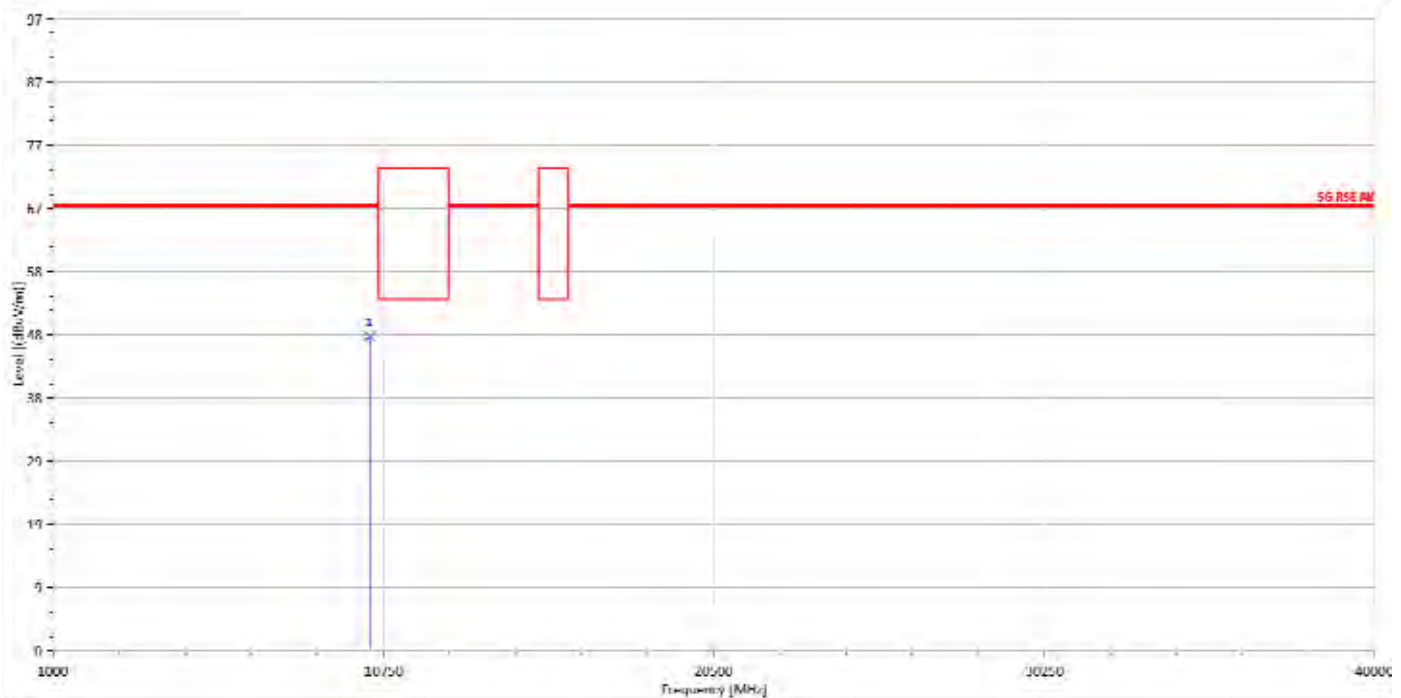
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f (886-2) 2298-0488

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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	30.68	17.62	48.30	68.3	-20.00

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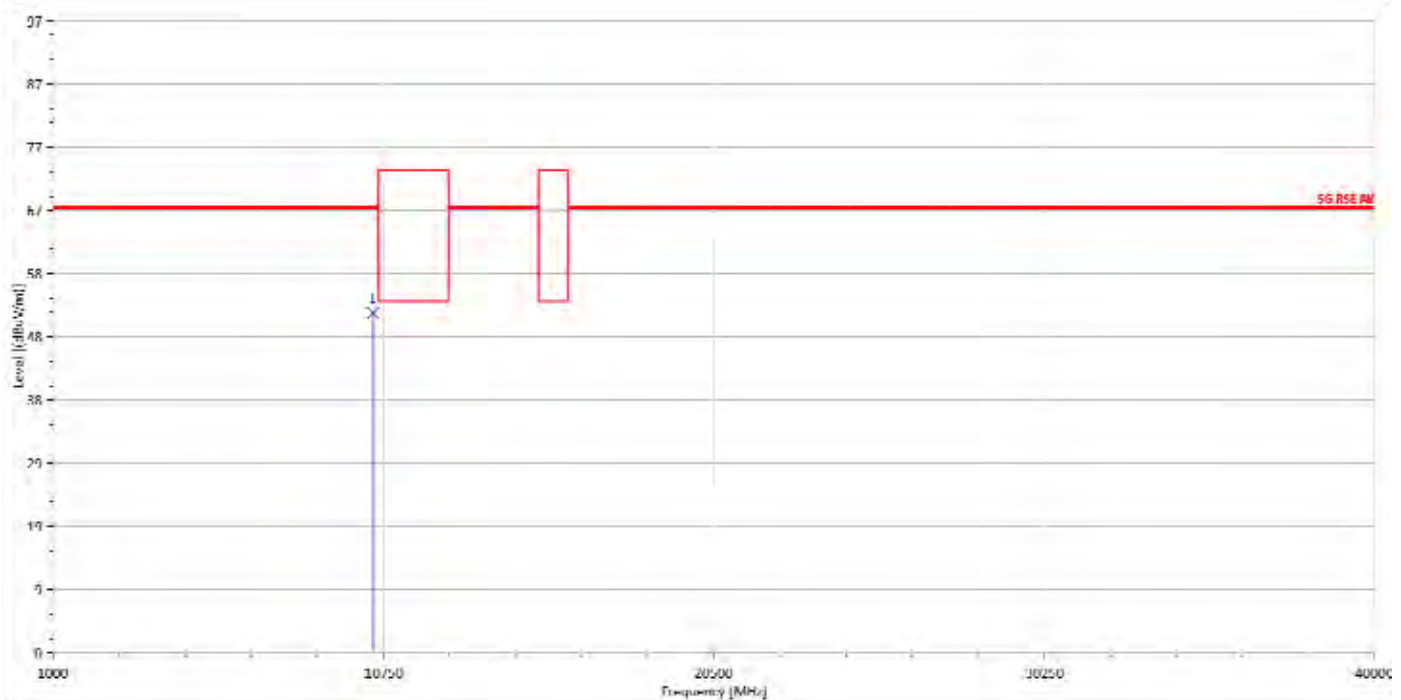
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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	31.89	20.29	52.18	68.3	-16.12

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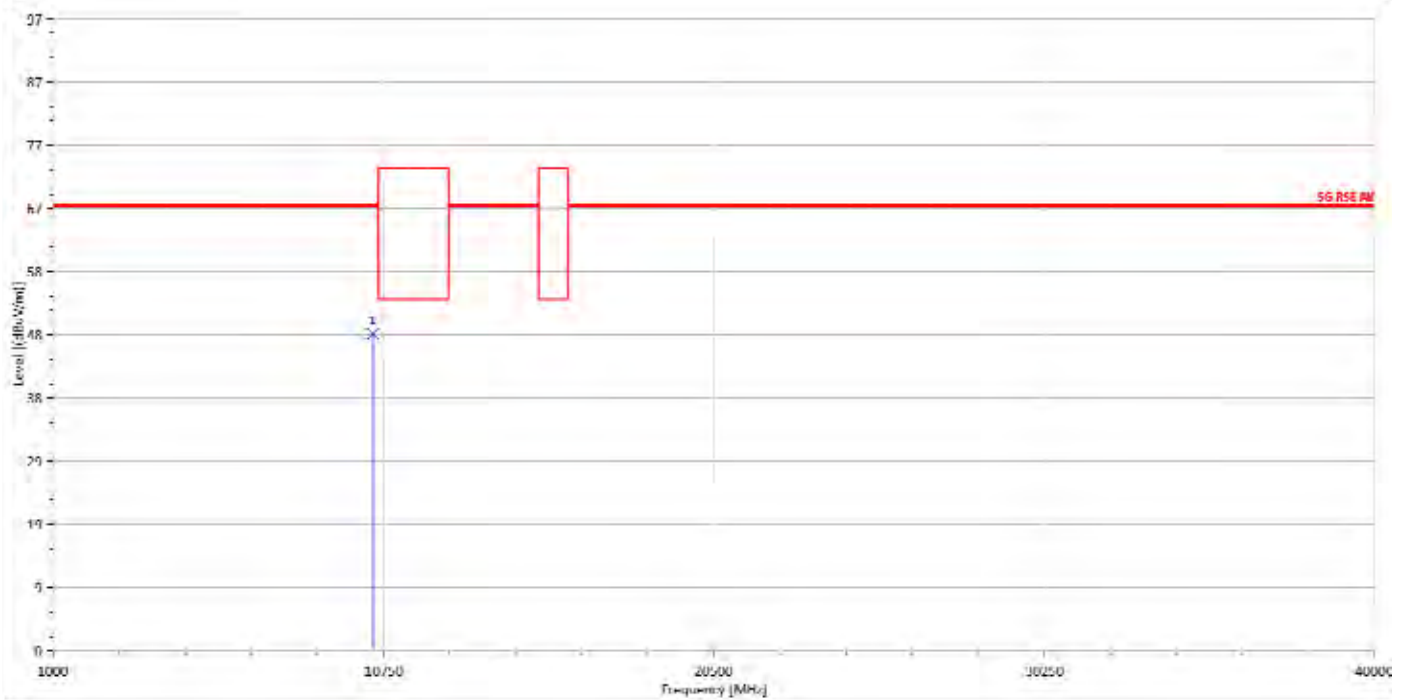
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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	30.98	17.65	48.63	68.3	-19.67

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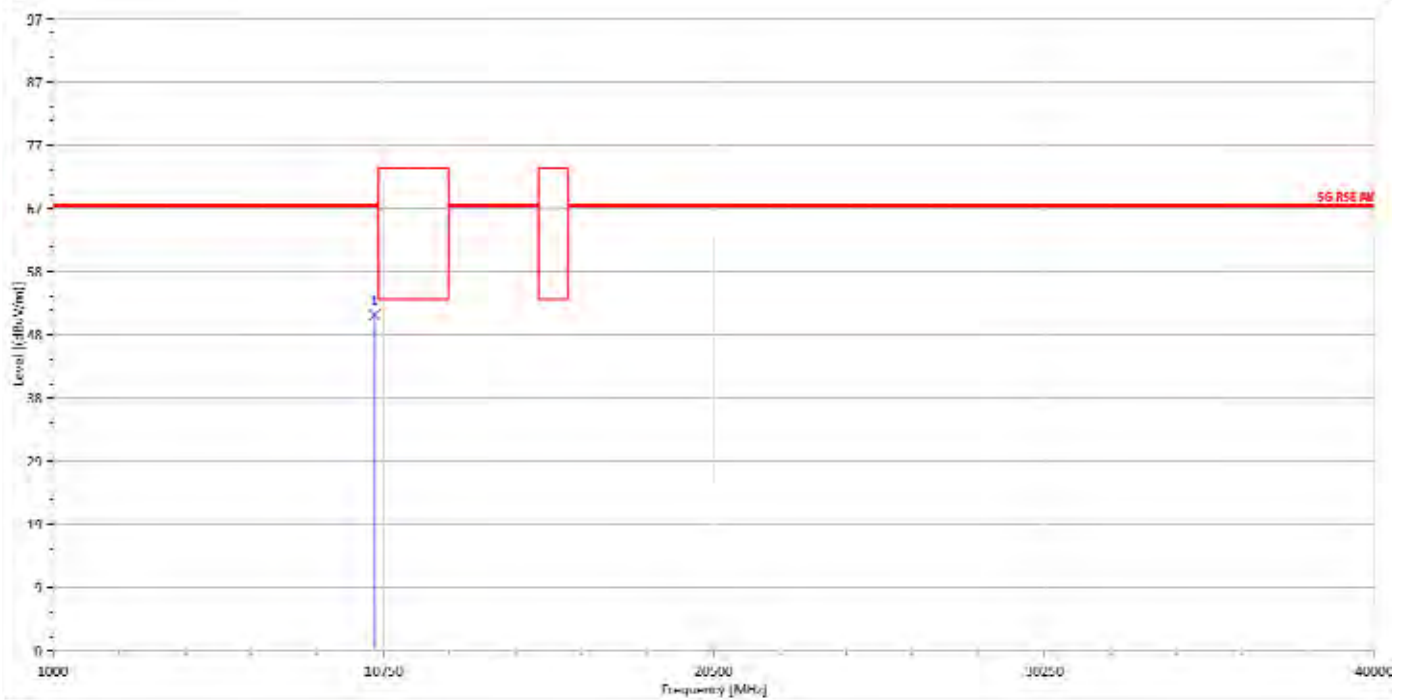
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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	30.91	20.68	51.59	68.3	-16.71

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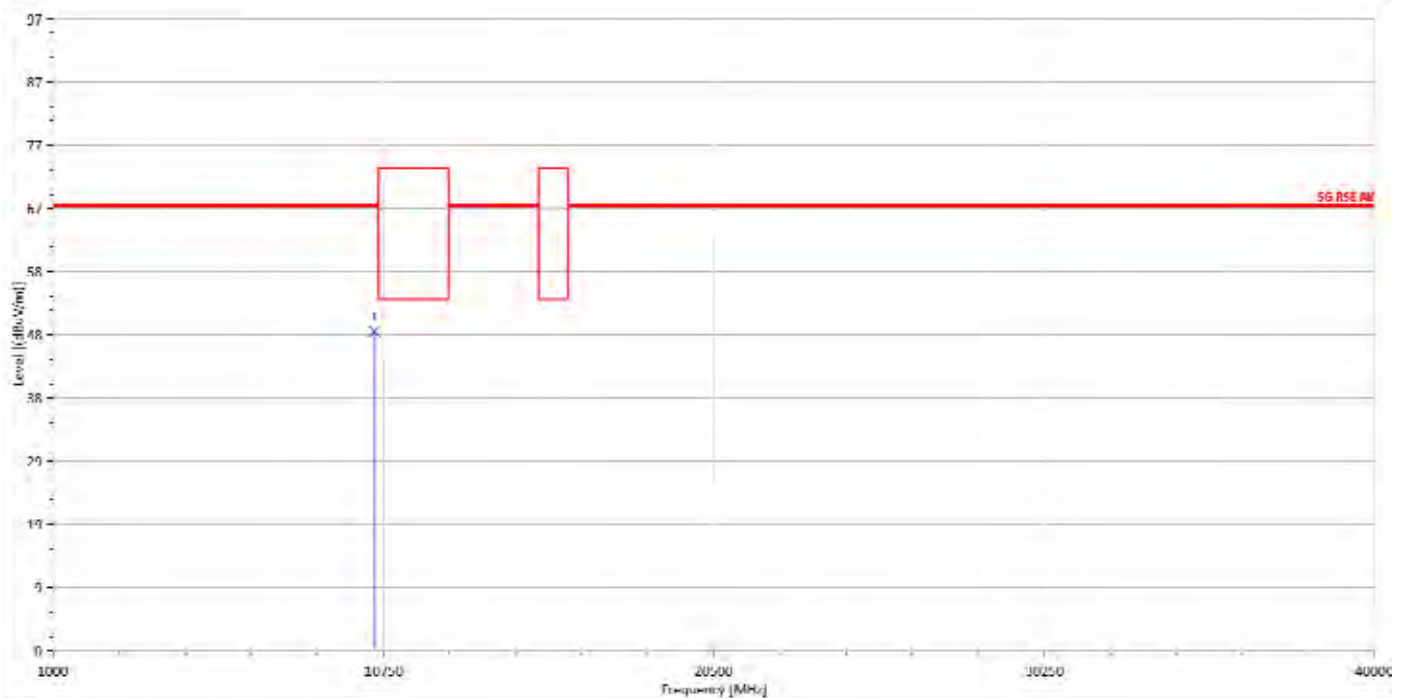
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Operation Mode :	802.11a	Test Date :	2017/6/17
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	31.05	18.00	49.05	68.3	-19.25

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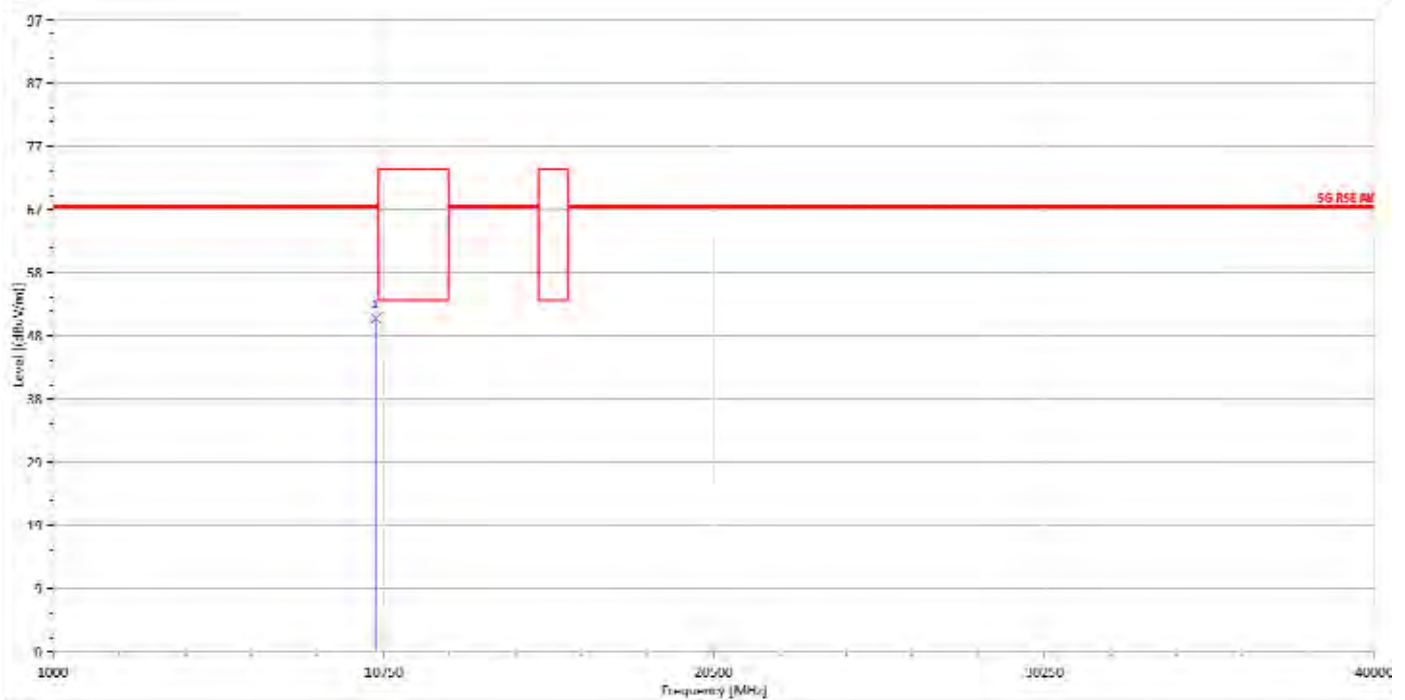
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11a	Test Date :	2017/6/17
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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	31.12	20.10	51.22	68.3	-17.08

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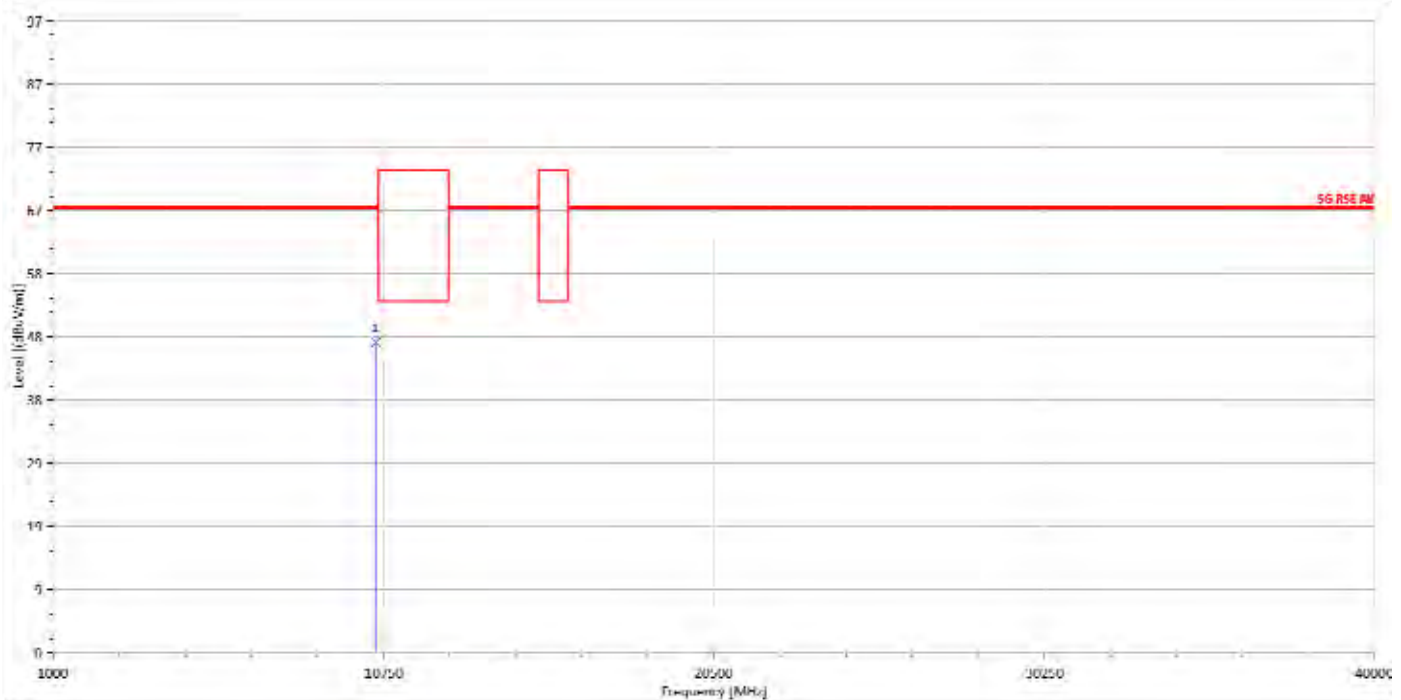
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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	30.24	17.39	47.63	68.3	-20.67

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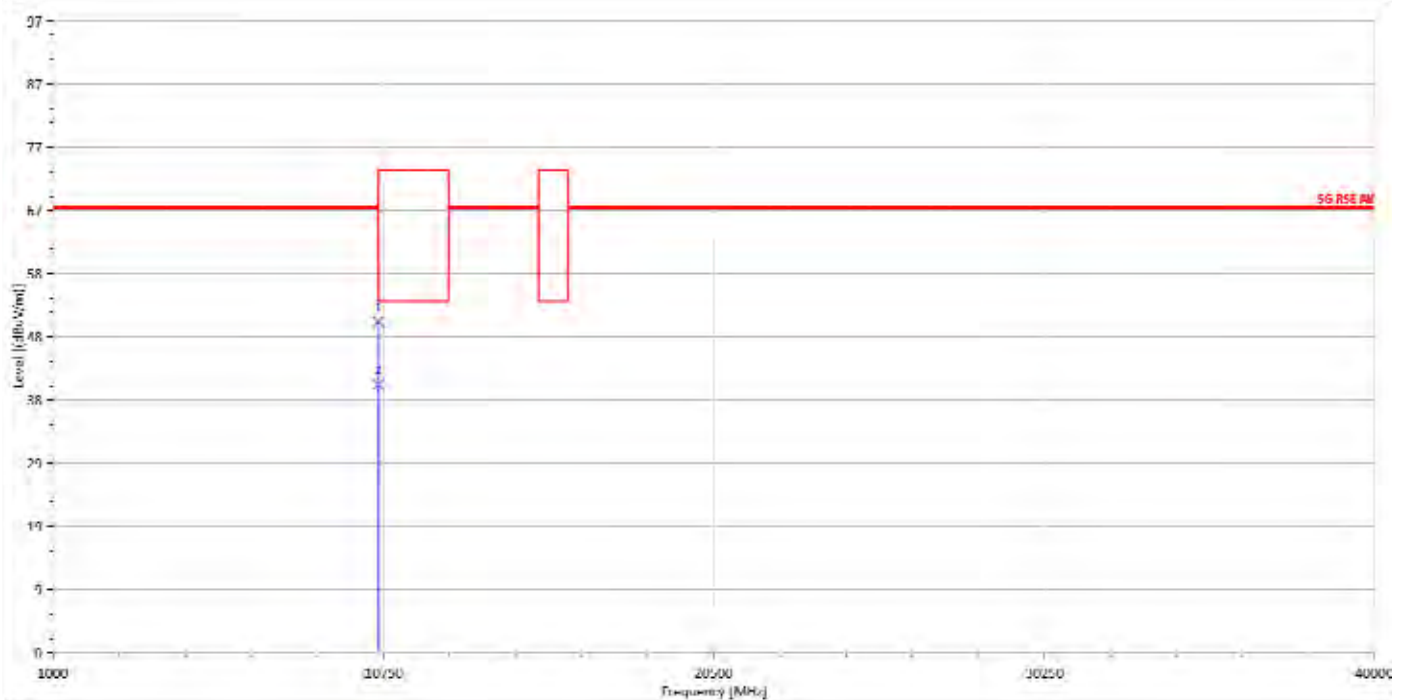
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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	30.69	20.17	50.85	74	-23.15
10600.00	H	Average	20.95	20.17	41.12	54	-12.88

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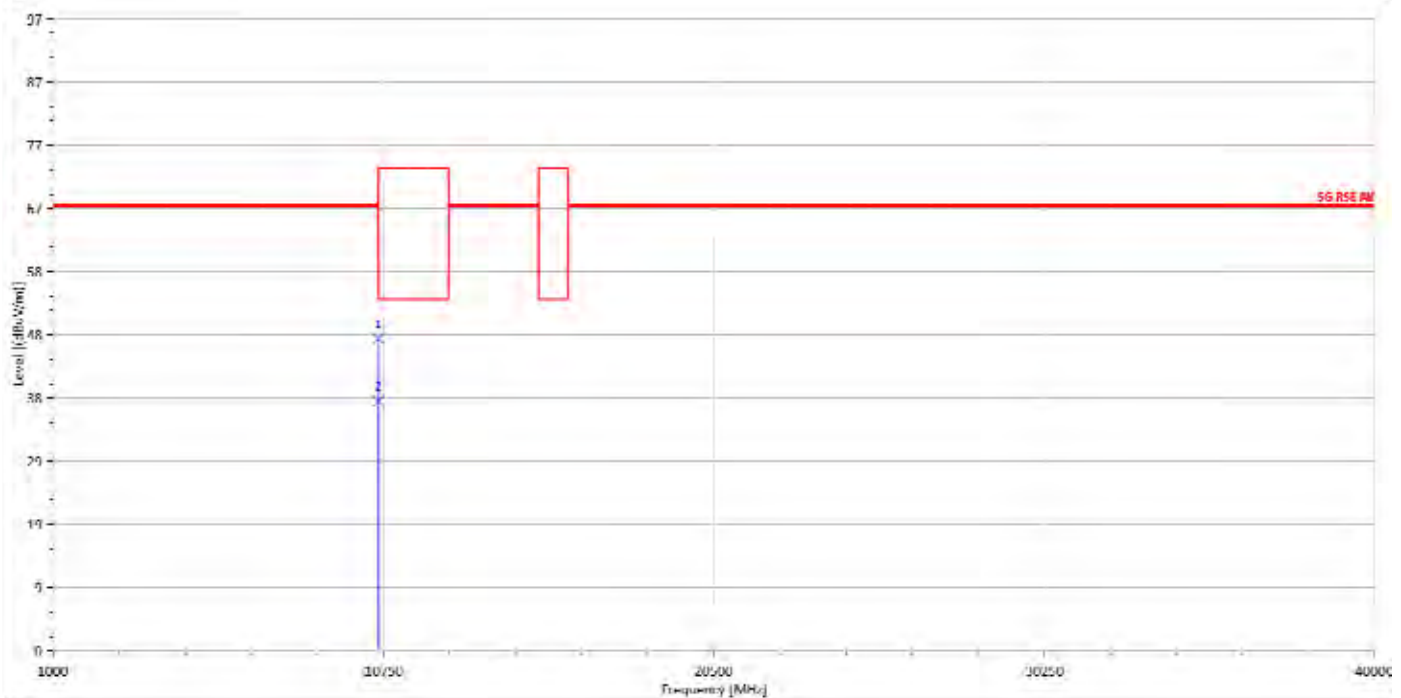
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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
10600.00	H	Peak	30.50	17.41	47.91	74	-26.09
10600.00	H	Average	20.94	17.41	38.35	54	-15.65

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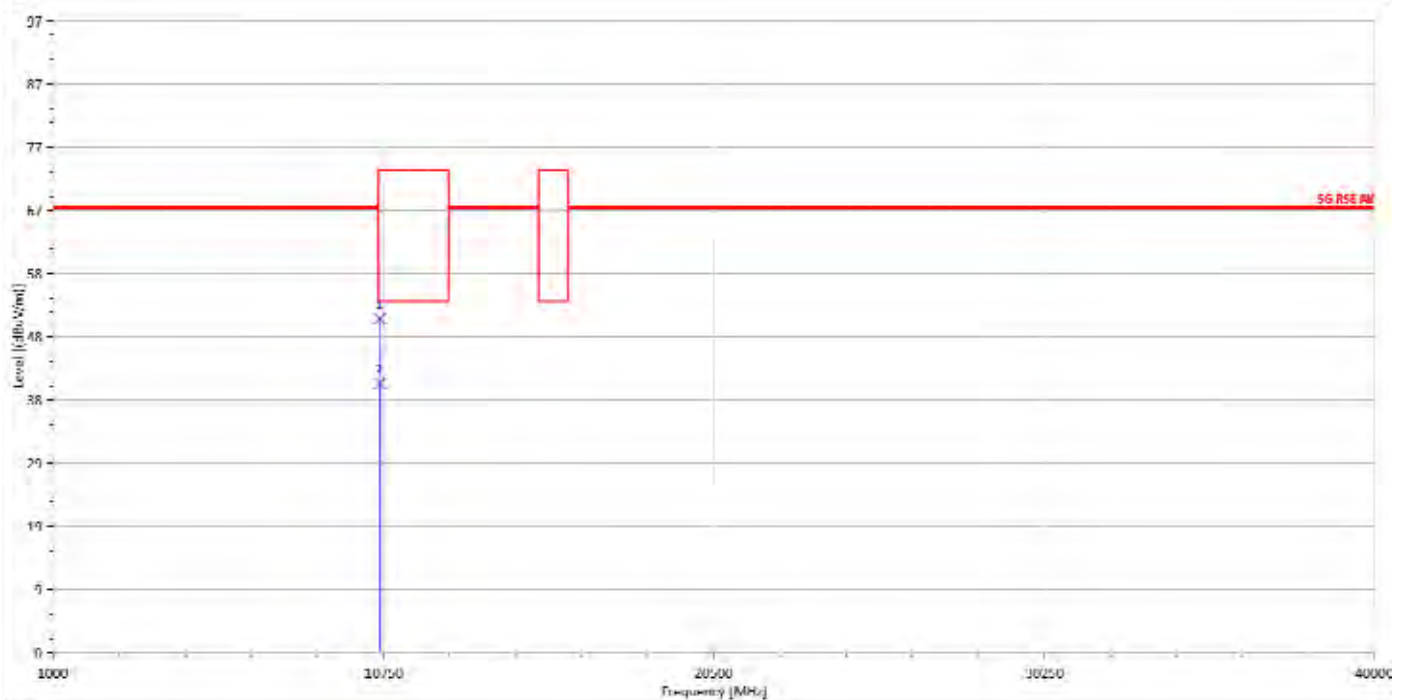
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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	H	Peak	30.97	20.34	51.31	74	-22.69
10640.00	H	Average	20.94	20.34	41.28	54	-12.72

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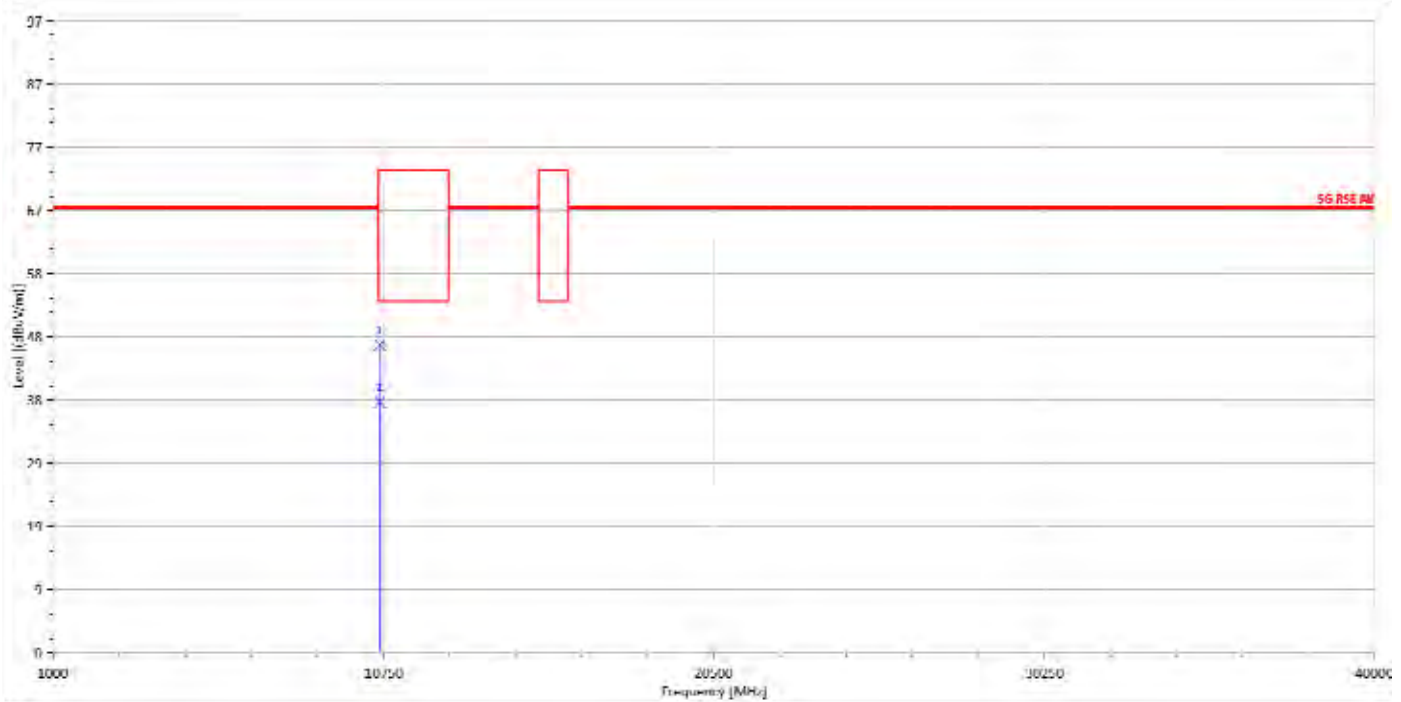
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Operation Mode :	802.11a	Test Date :	2017/2/8
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	29.68	17.56	47.24	74	-26.76
10640.00	H	Average	20.93	17.56	38.49	54	-15.51

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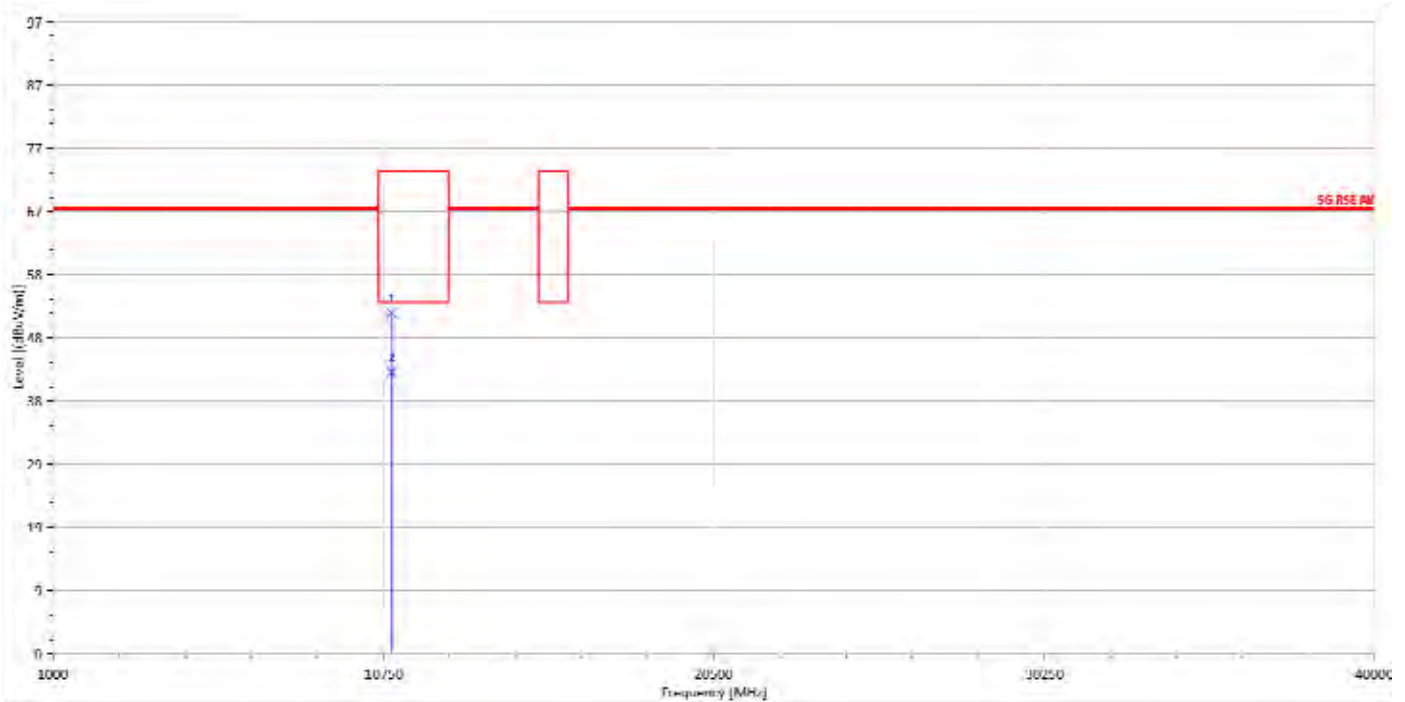
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2017/6/17
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
11000.00	H	Peak	30.25	22.11	52.36	74	-21.64
11000.00	H	Average	21.06	22.11	43.17	54	-10.83

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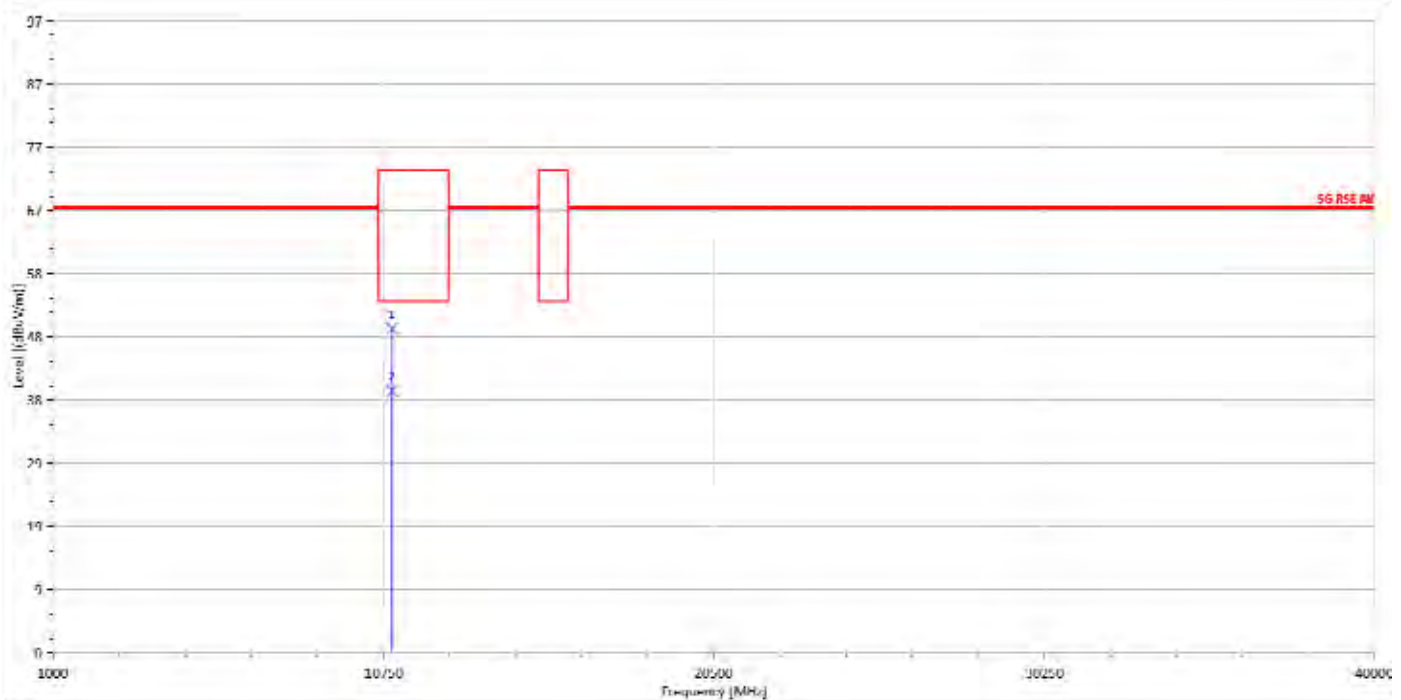
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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11000.00	H	Peak	30.63	19.11	49.74	74	-24.26
11000.00	H	Average	21.04	19.11	40.15	54	-13.85

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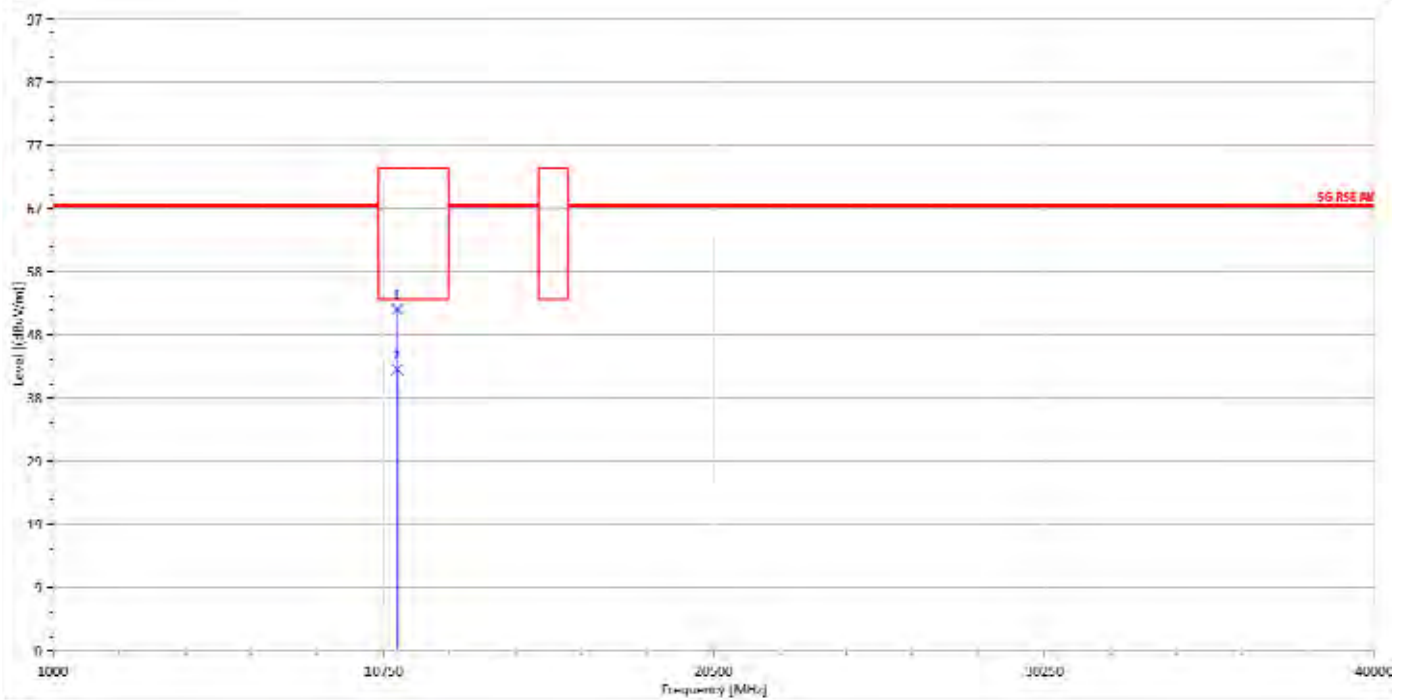
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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	30.44	22.04	52.48	74	-21.52
11160.00	H	Average	21.08	22.04	43.12	54	-10.88

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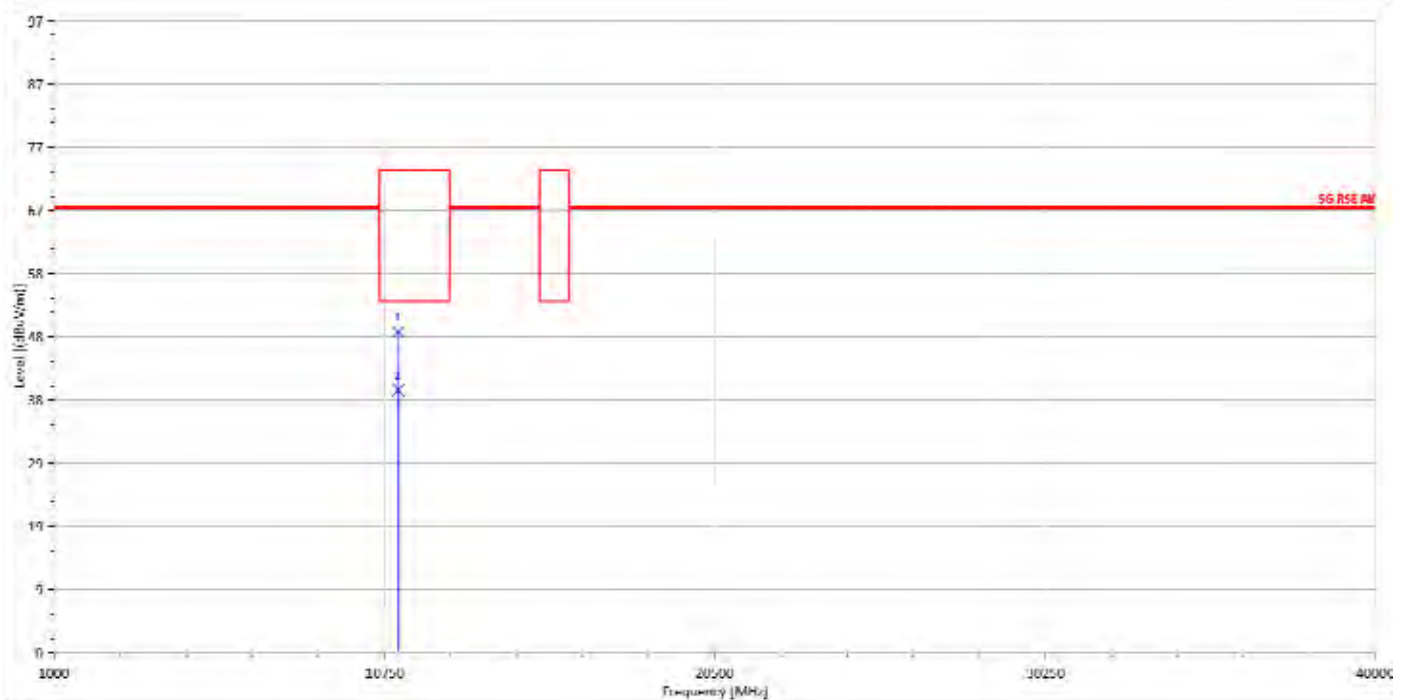
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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	30.00	19.26	49.26	74	-24.74
11160.00	H	Average	21.04	19.26	40.30	54	-13.70

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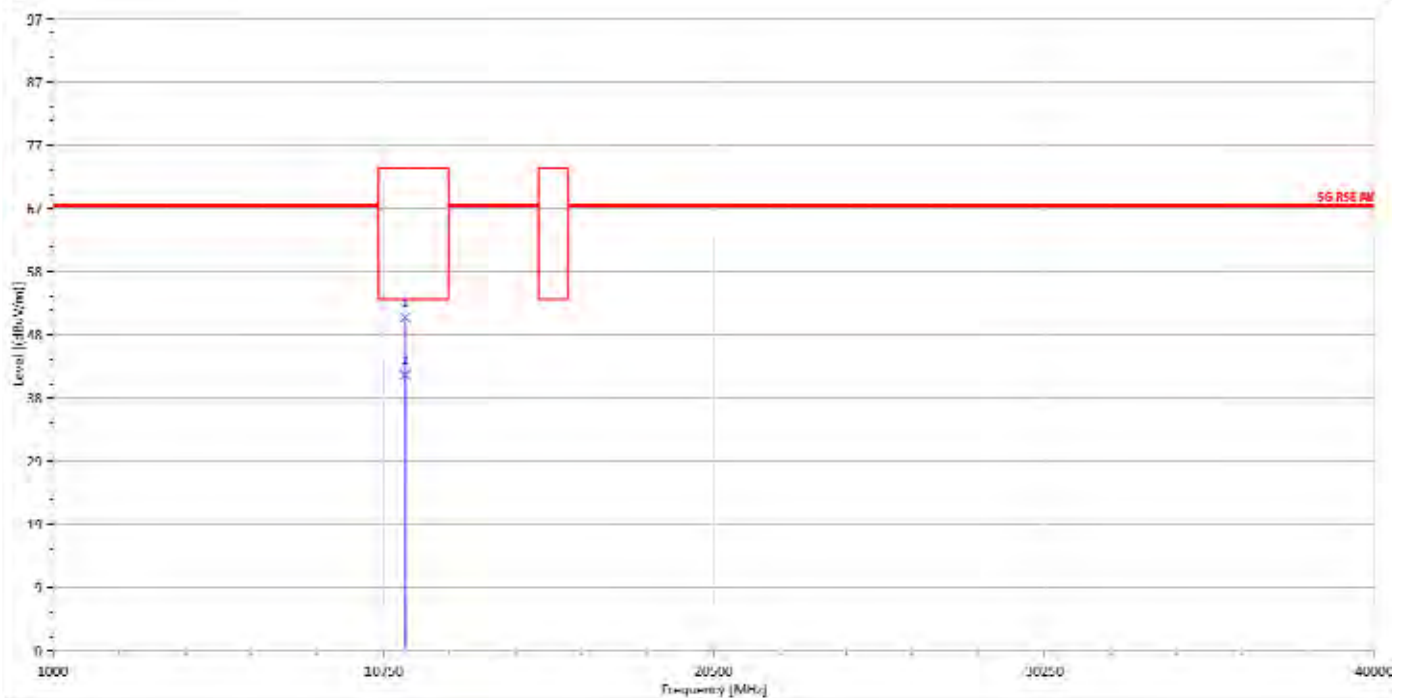
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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11400.00	H	Peak	29.97	21.22	51.18	74	-22.82
11400.00	H	Average	21.07	21.22	42.29	54	-11.71

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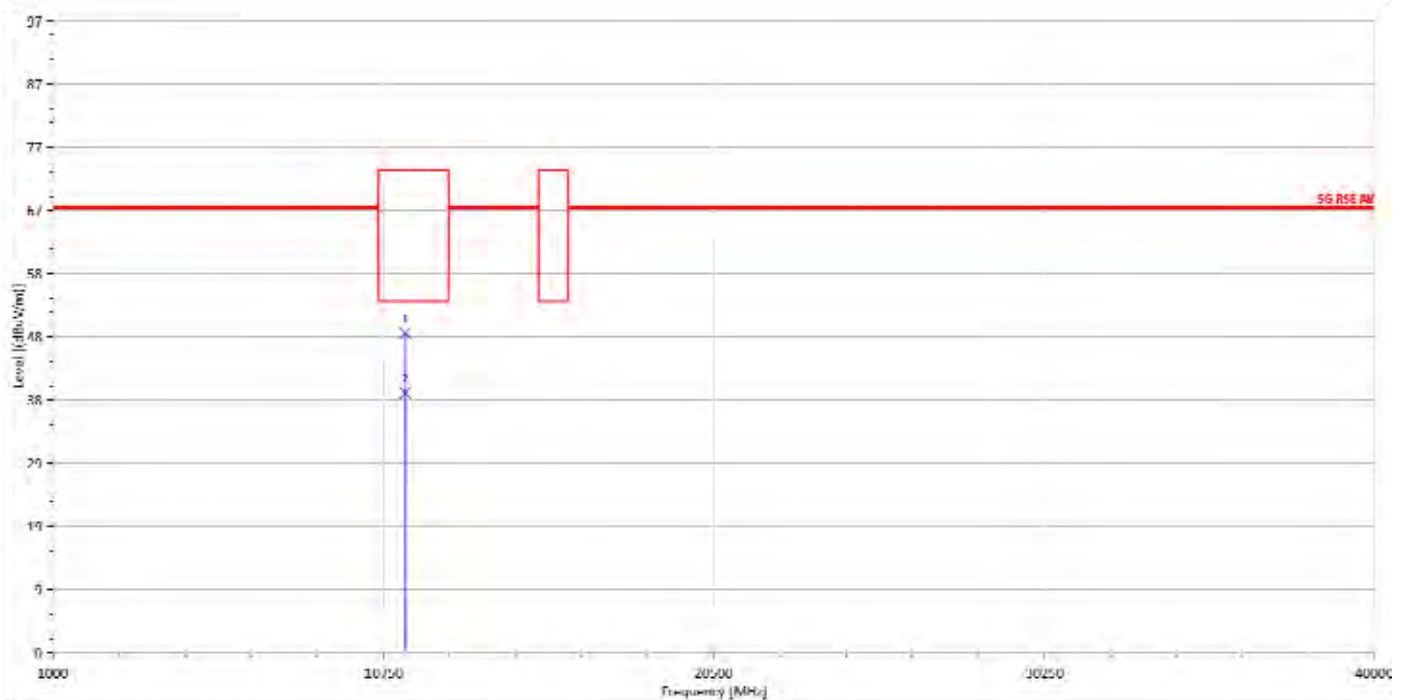
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Operation Mode :	802.11a	Test Date :	2017/2/8
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11400.00	H	Peak	30.32	18.78	49.09	74	-24.91
11400.00	H	Average	21.07	18.78	39.85	54	-14.15

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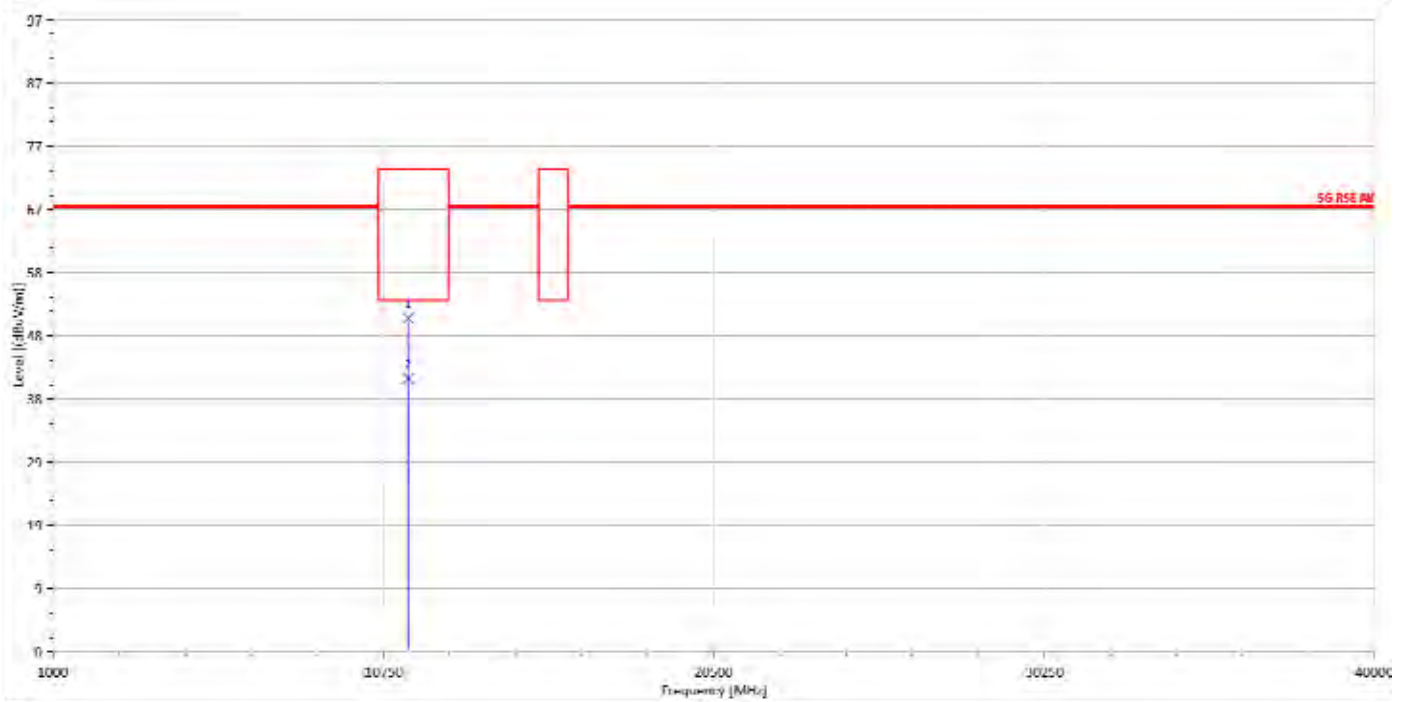
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2017/6/17
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
11490.00	H	Peak	30.51	20.70	51.21	74	-22.79
11490.00	H	Average	21.13	20.70	41.83	54	-12.17

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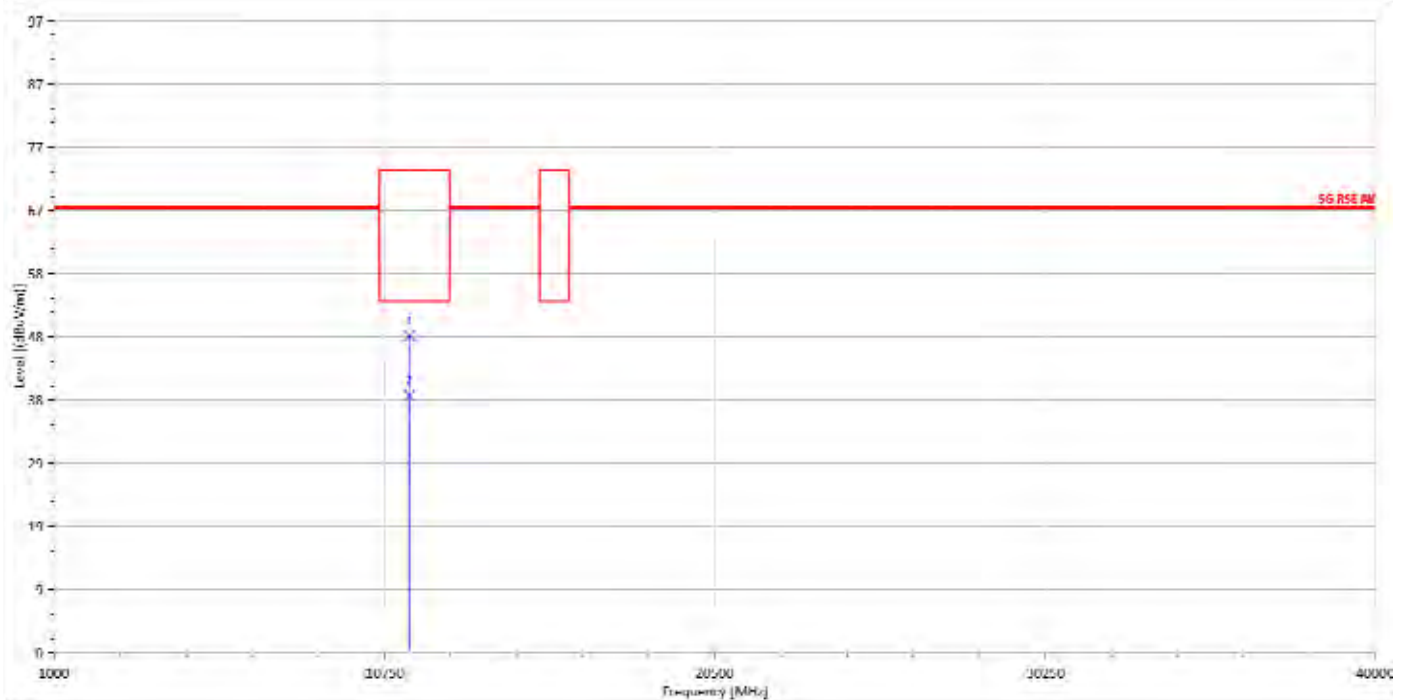
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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11490.00	H	Peak	30.29	18.39	48.68	74	-25.32
11490.00	H	Average	21.13	18.39	39.52	54	-14.48

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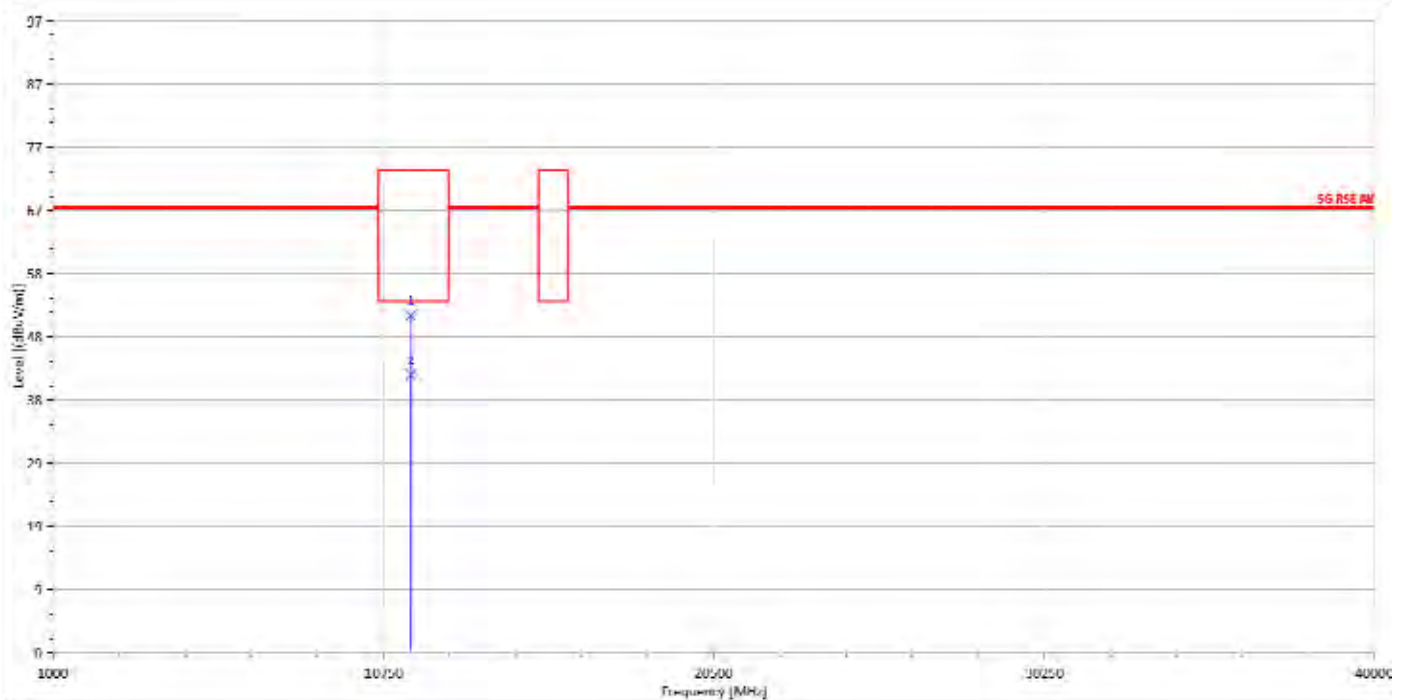
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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11570.00	H	Peak	30.36	21.44	51.81	74	-22.19
11570.00	H	Average	21.16	21.44	42.60	54	-11.40

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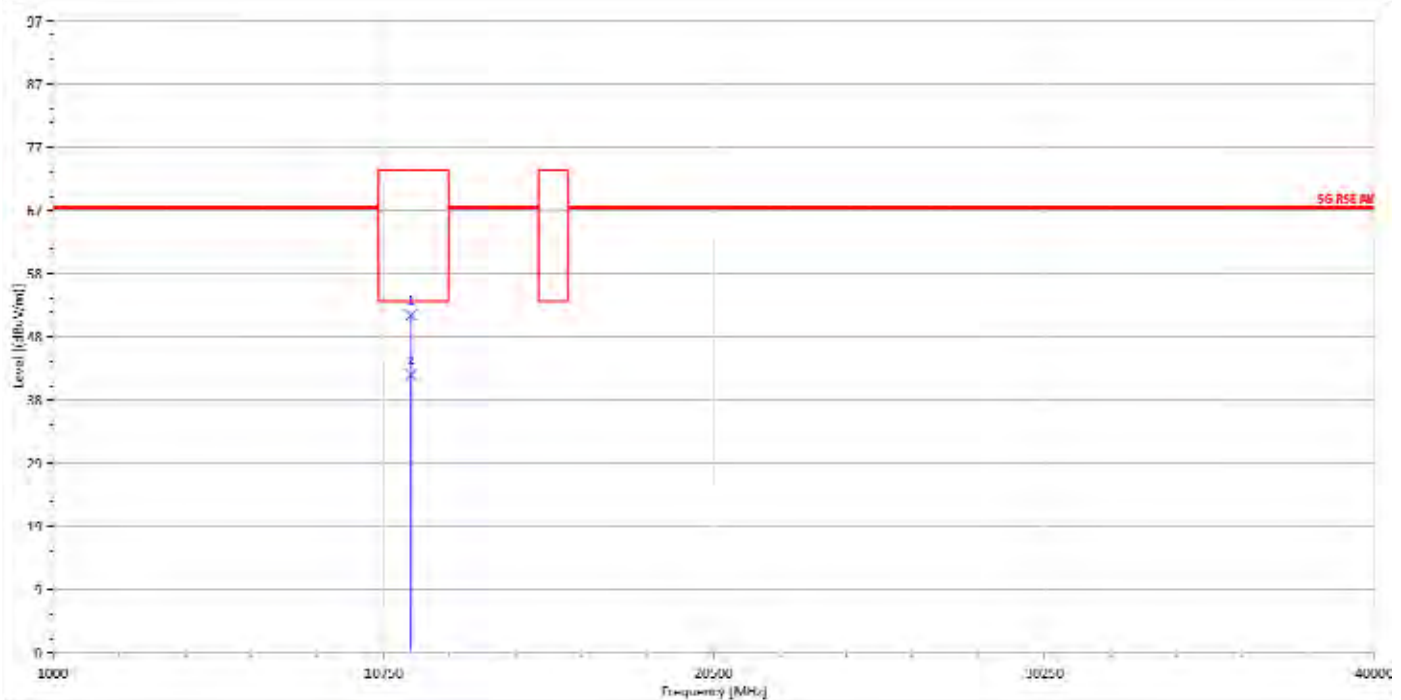
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Operation Mode : 802.11a Test Date : 2017/6/17
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11570.00	H	Peak	30.42	21.44	51.86	74	-22.14
11570.00	H	Average	21.15	21.44	42.59	54	-11.41

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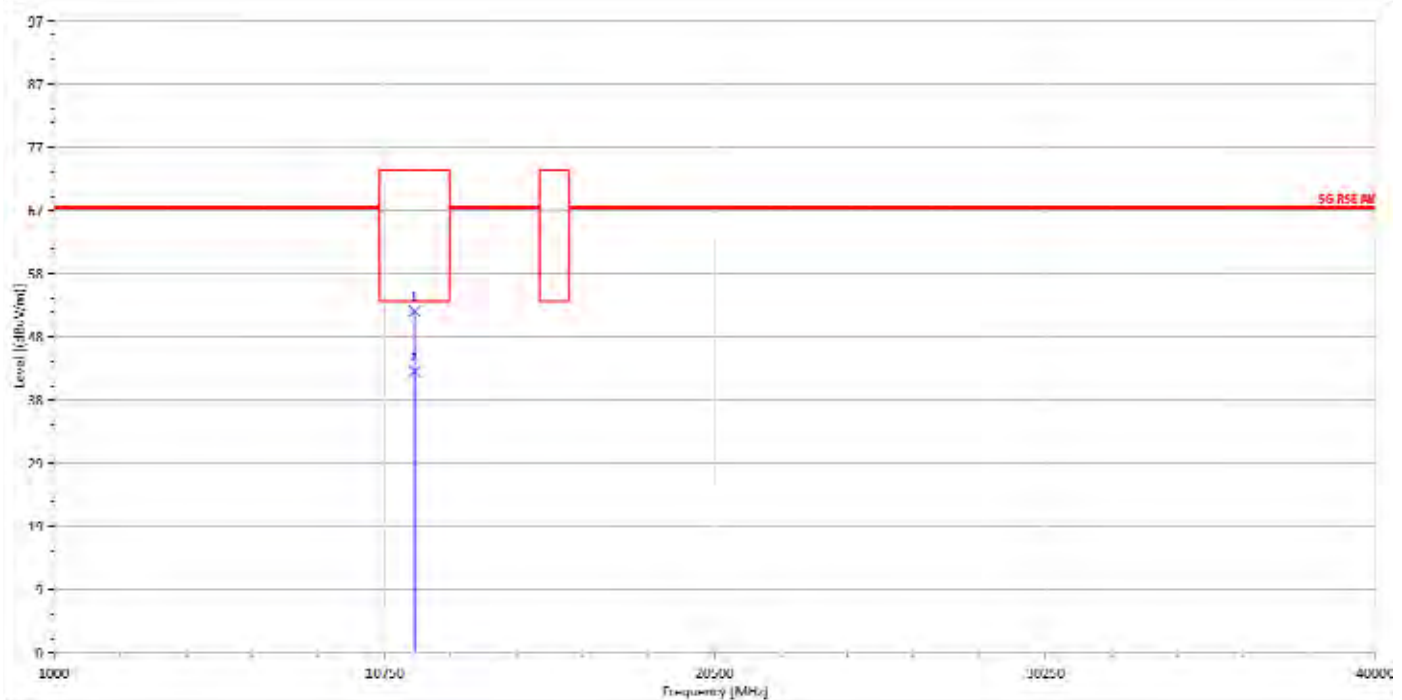
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Operation Mode :	802.11a	Test Date :	2017/6/17
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11650.00	H	Peak	30.44	22.02	52.46	74	-21.54
11650.00	H	Average	21.12	22.02	43.14	54	-10.86

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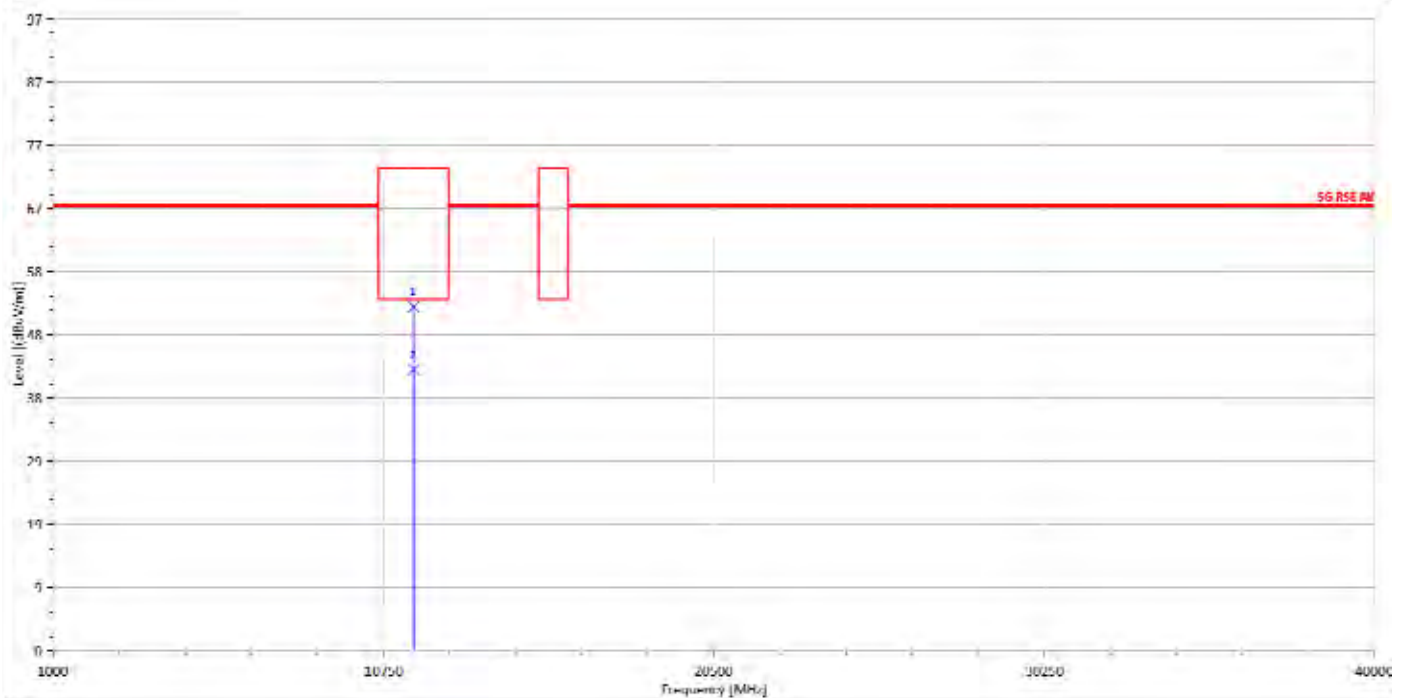
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Operation Mode :	802.11a	Test Date :	2017/6/17
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11650.00	H	Peak	30.81	22.02	52.83	74	-21.17
11650.00	H	Average	21.11	22.02	43.13	54	-10.87

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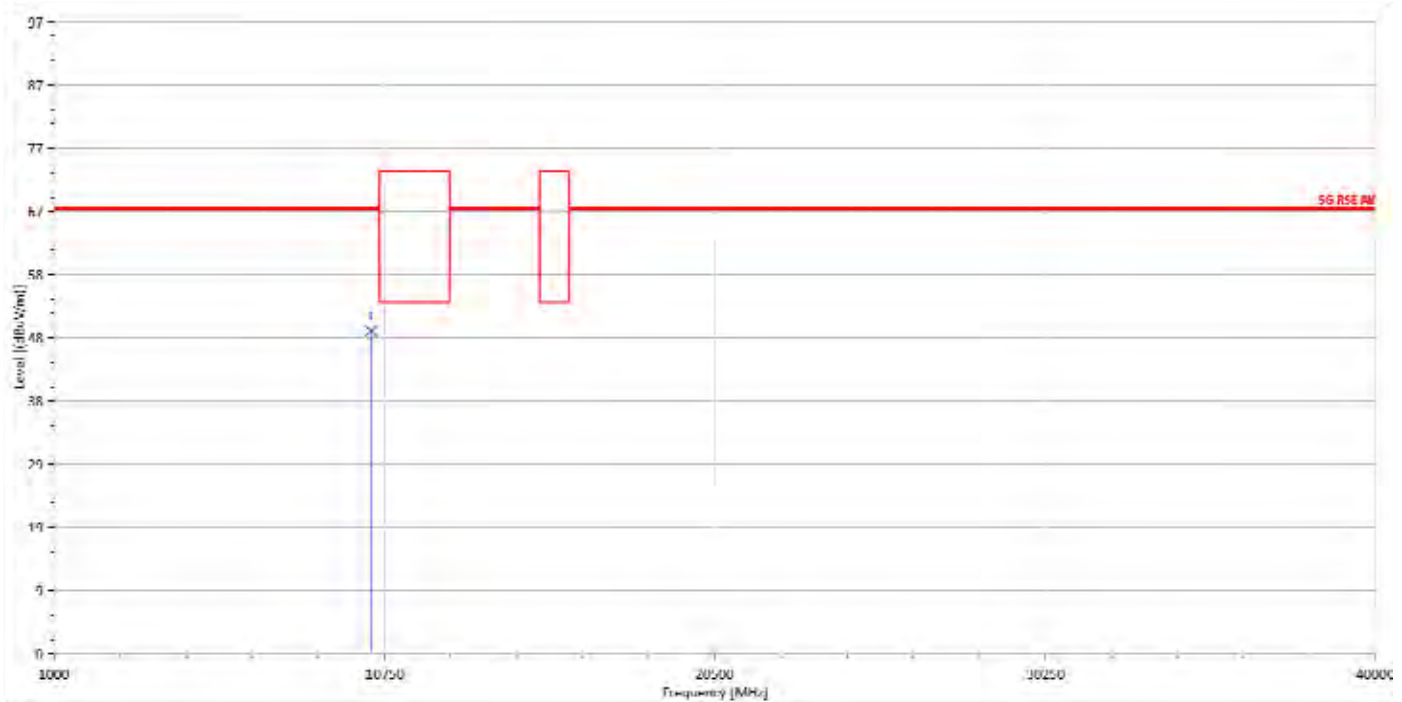
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20	Test Date :	2017/6/17
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
10360.00	H	Peak	29.37	20.18	49.55	68.3	-18.75

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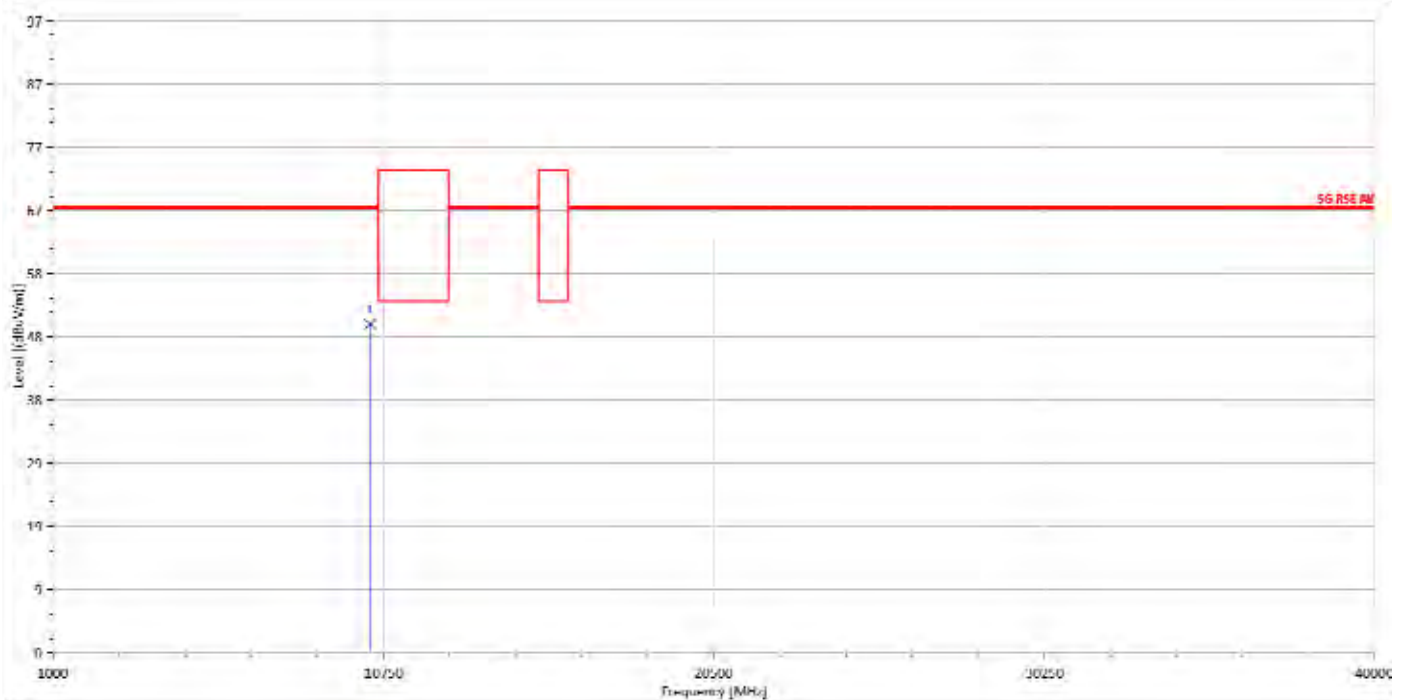
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	H	Peak	30.30	20.18	50.47	68.3	-17.83

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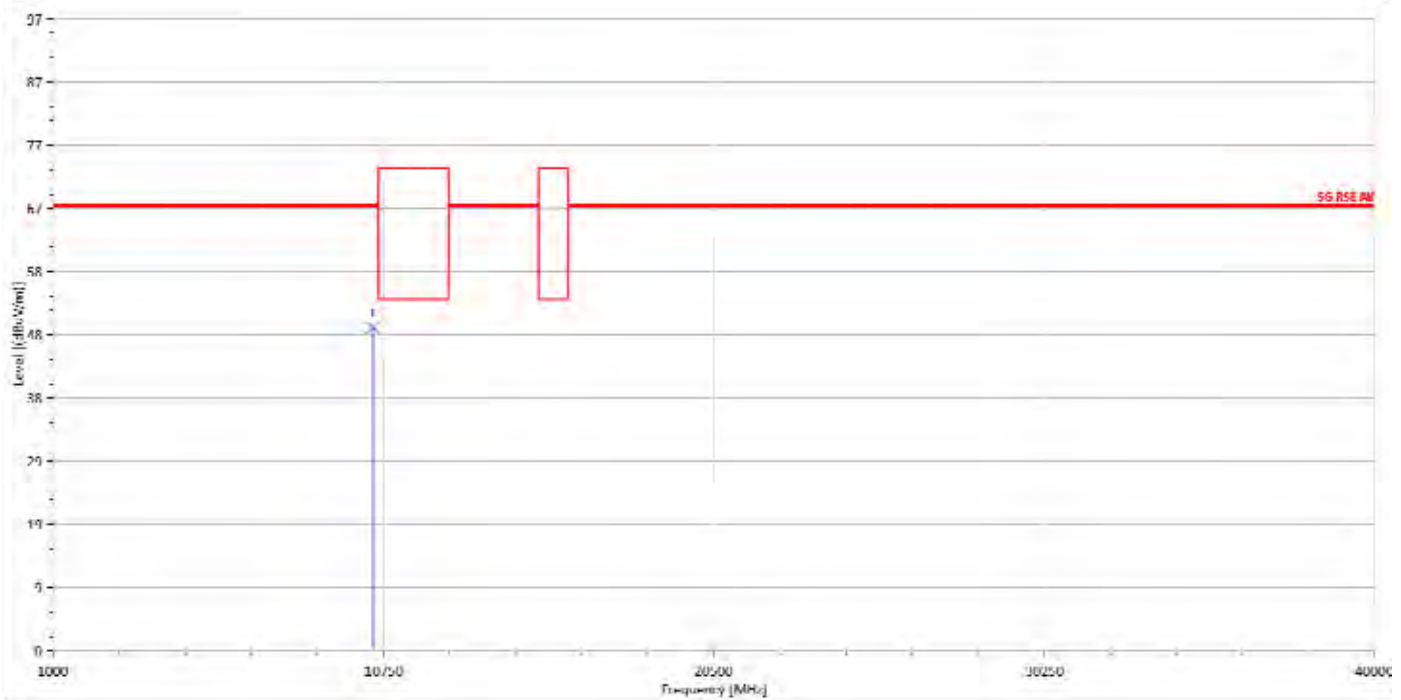
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	29.36	20.29	49.65	68.3	-18.65

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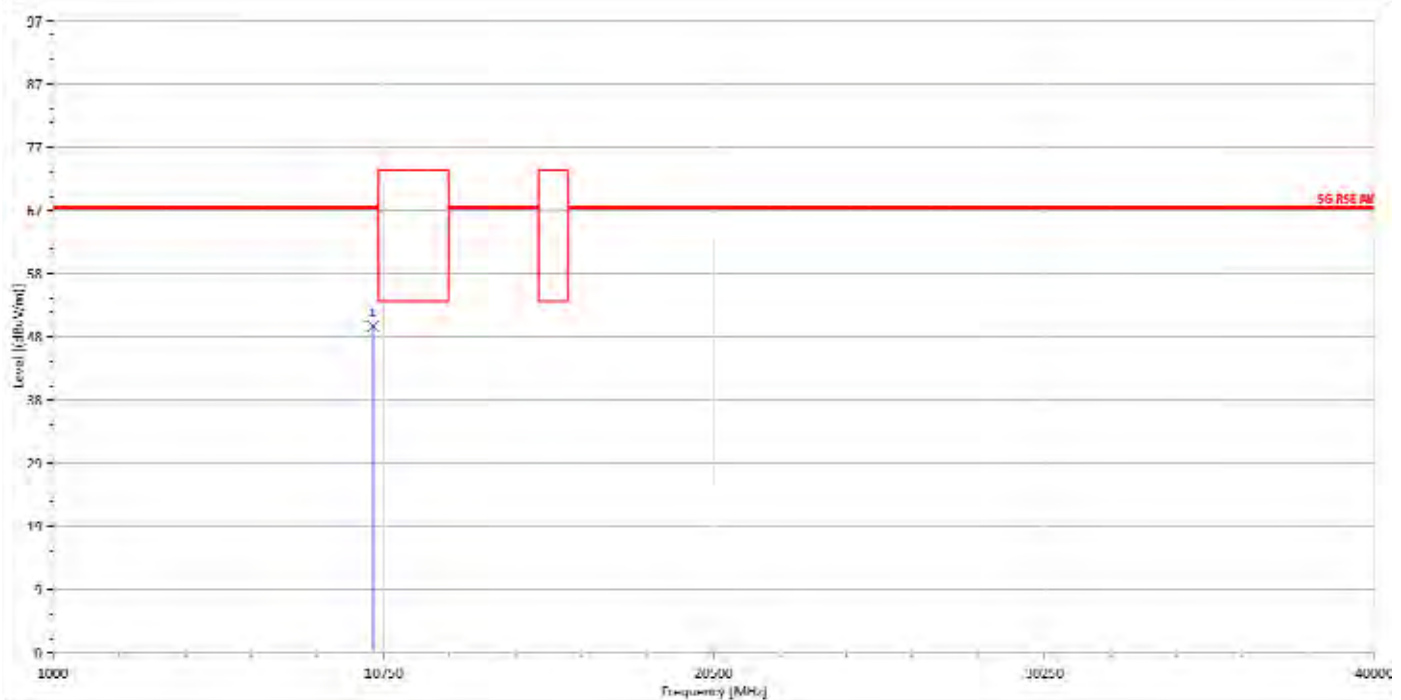
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	29.83	20.29	50.13	68.3	-18.17

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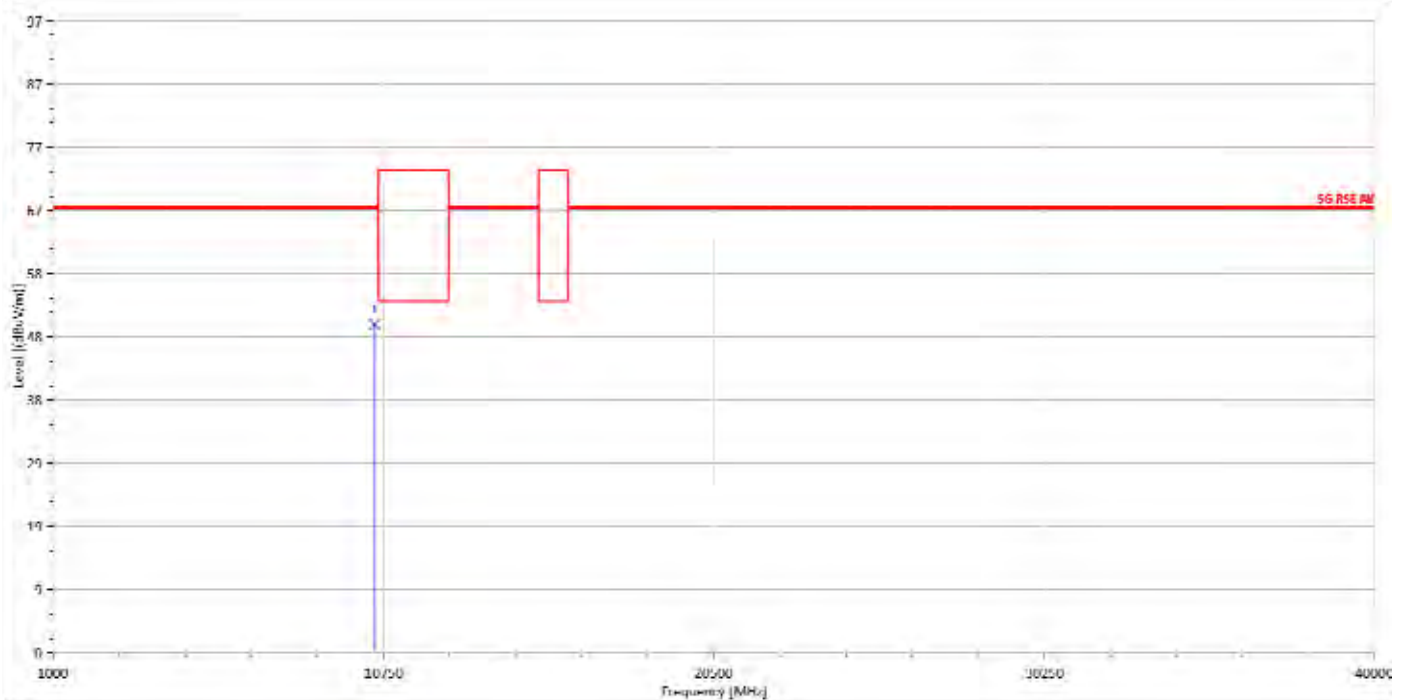
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	29.76	20.68	50.43	68.3	-17.87

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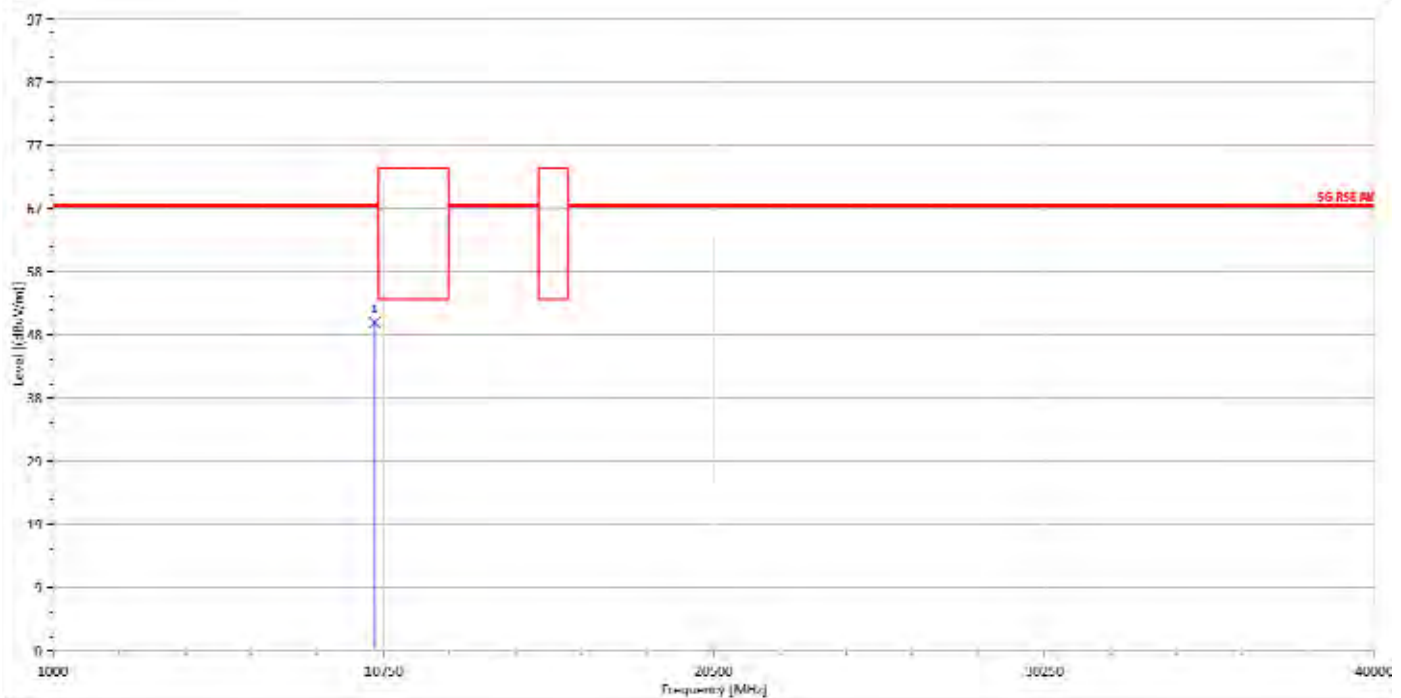
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	29.74	20.68	50.42	68.3	-17.88

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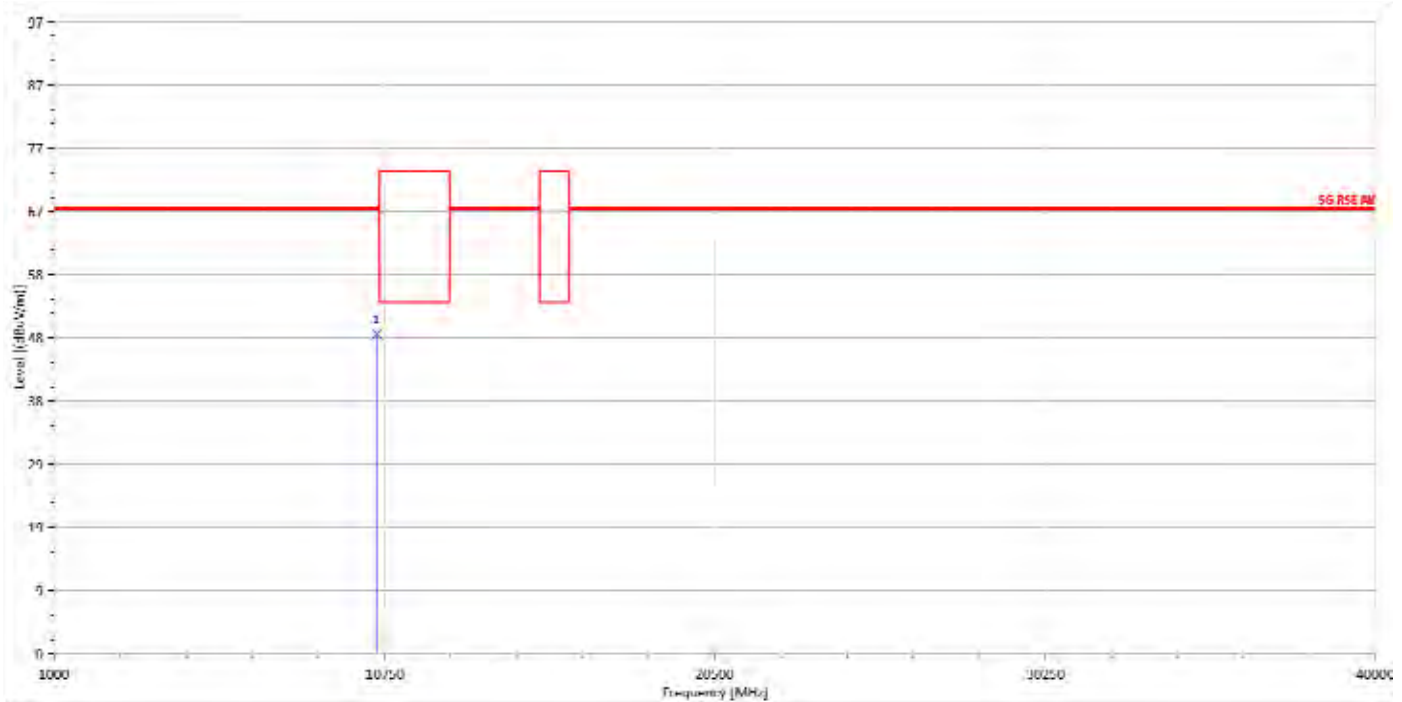
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20	Test Date :	2017/6/17
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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	29.01	20.10	49.11	68.3	-19.19

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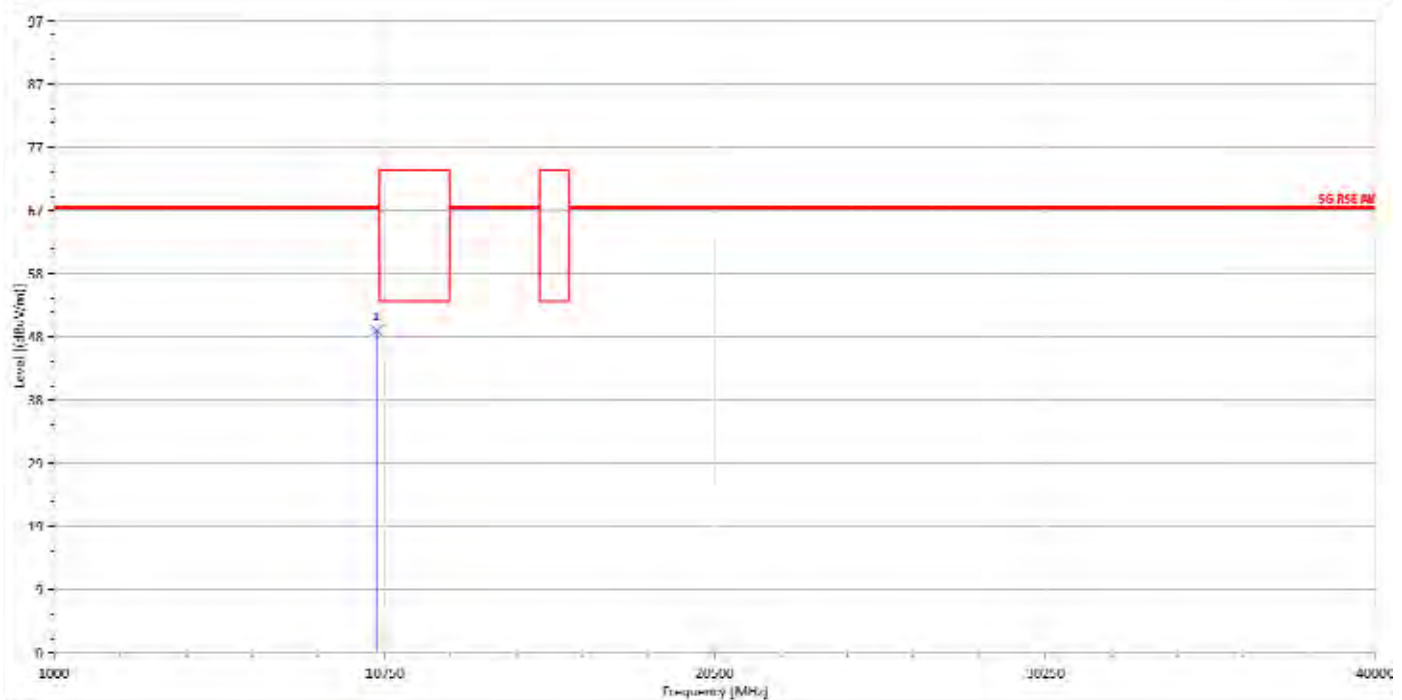
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	29.40	20.10	49.50	68.3	-18.80

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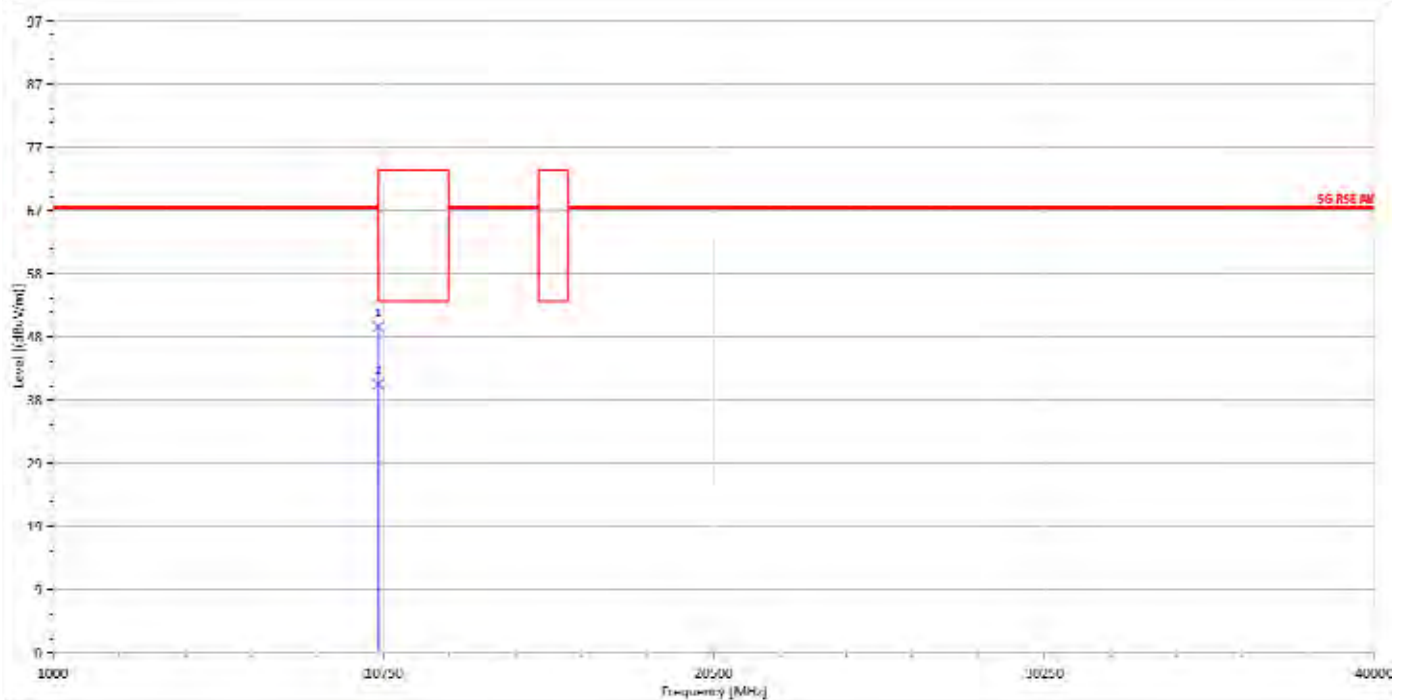
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	29.91	20.17	50.08	74	-23.92
10600.00	H	Average	20.98	20.17	41.15	54	-12.85

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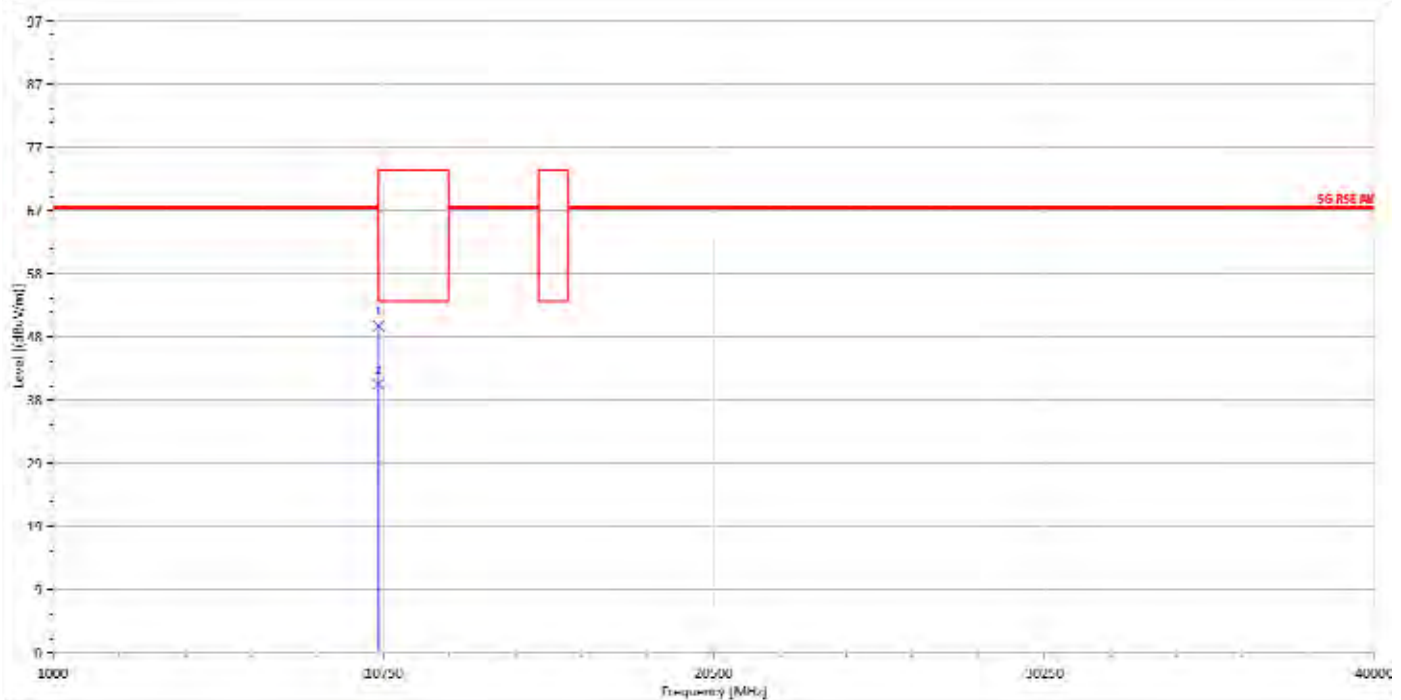
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
10600.00	H	Peak	30.00	20.17	50.17	74	-23.83
10600.00	H	Average	20.98	20.17	41.15	54	-12.85

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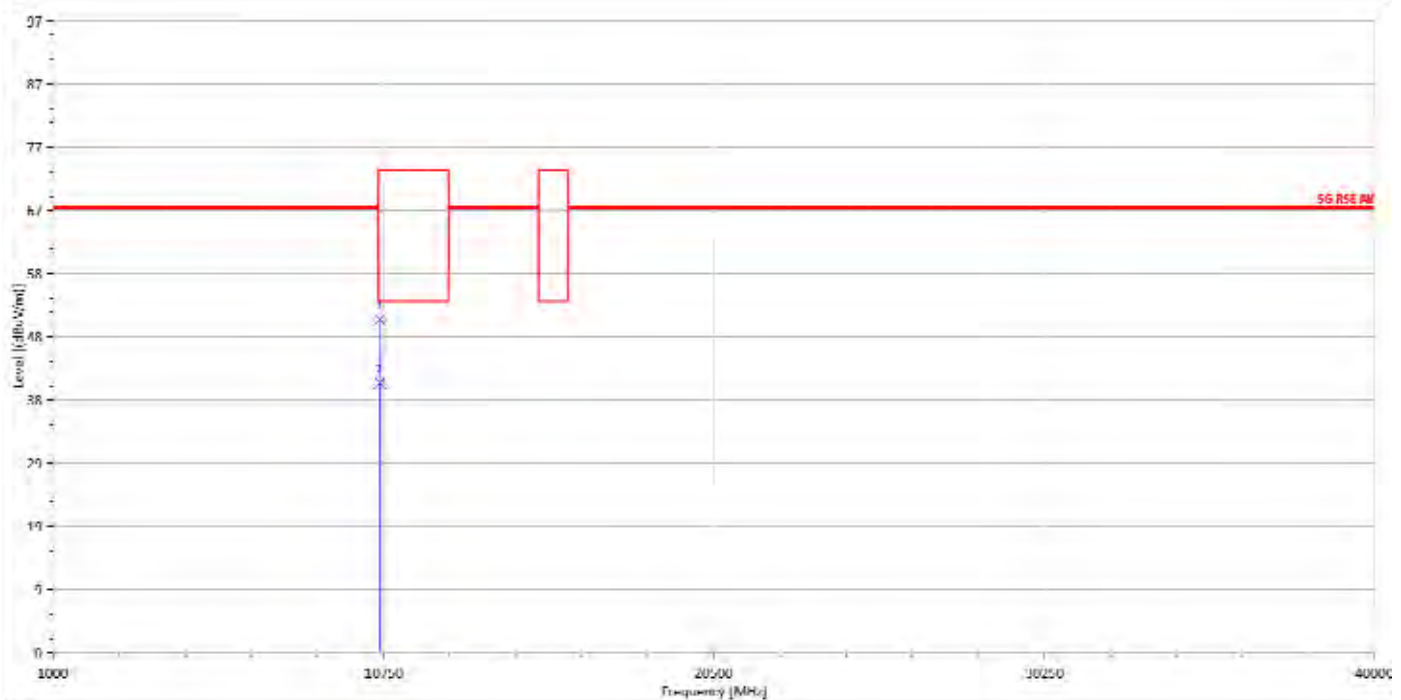
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	H	Peak	30.83	20.34	51.17	74	-22.83
10640.00	H	Average	20.98	20.34	41.32	54	-12.68

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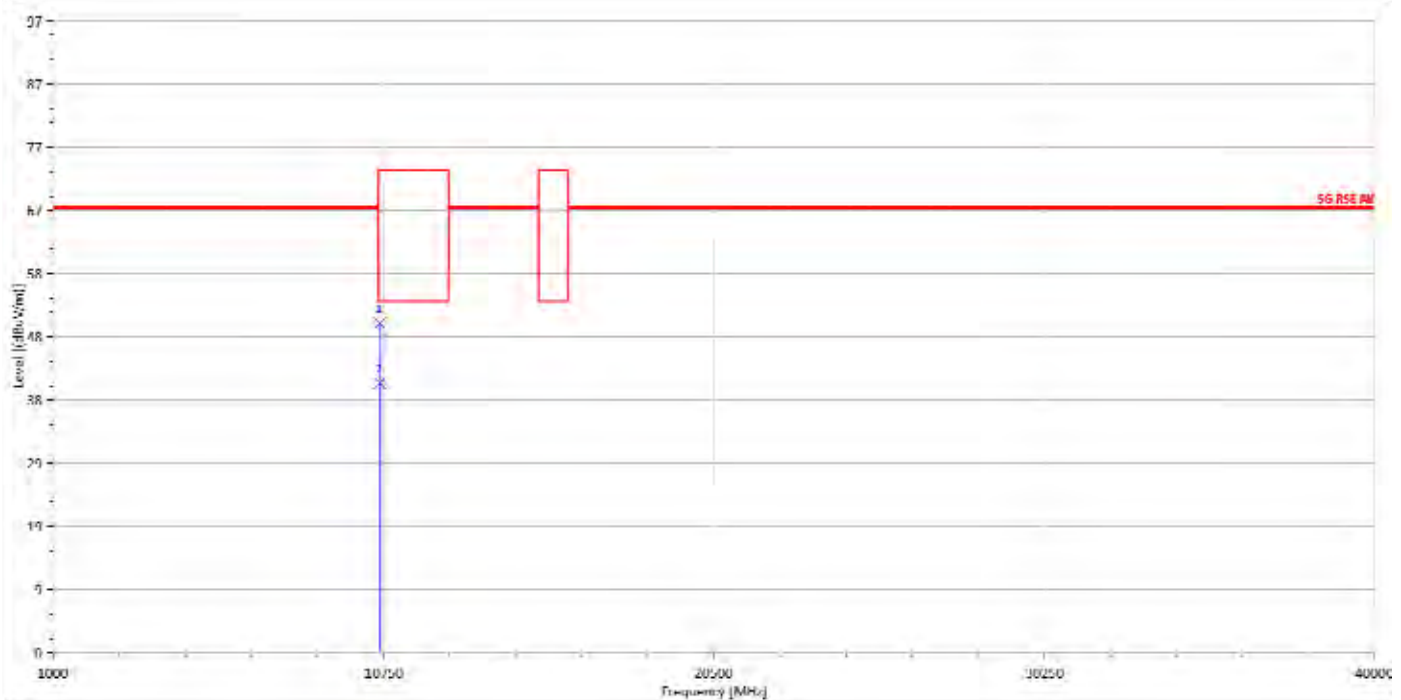
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	H	Peak	30.27	20.34	50.61	74	-23.39
10640.00	H	Average	20.96	20.34	41.30	54	-12.70

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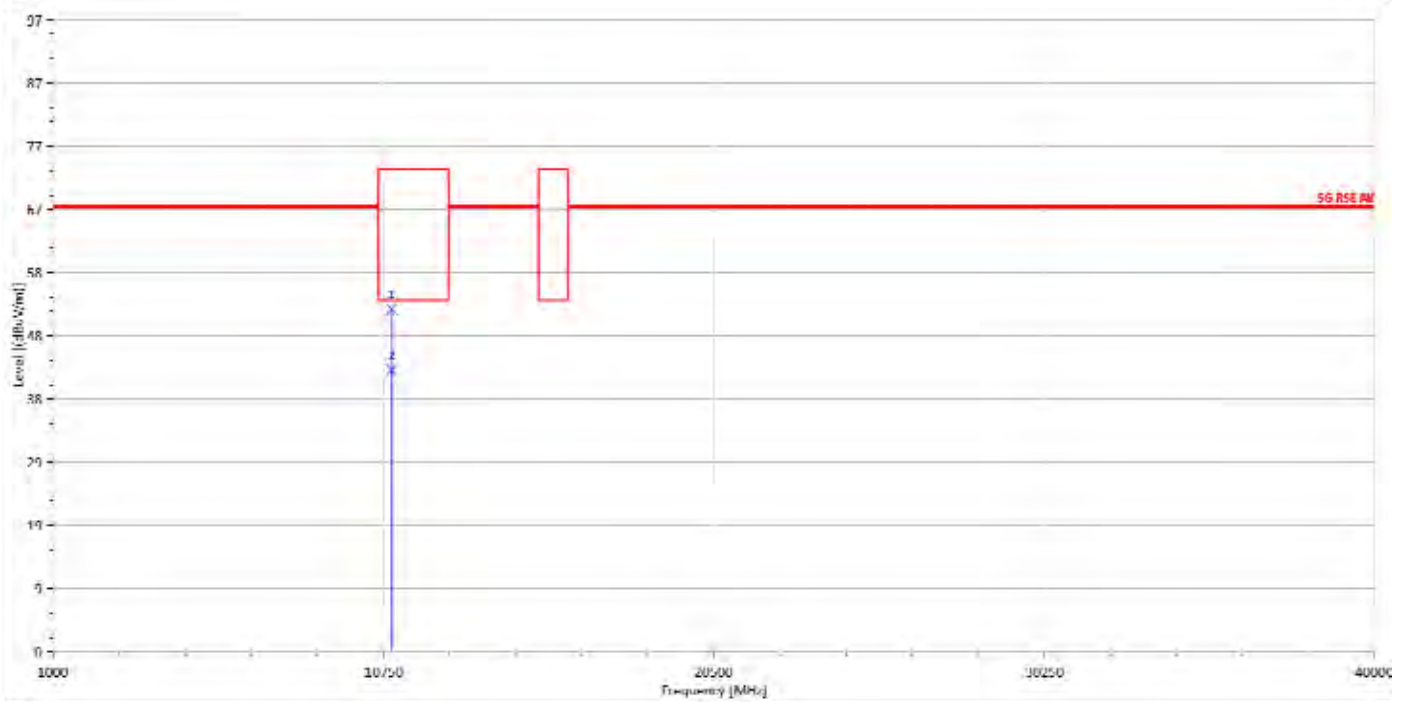
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20	Test Date :	2017/6/17
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
11000.00	H	Peak	30.50	22.11	52.61	74	-21.39
11000.00	H	Average	21.08	22.11	43.19	54	-10.81

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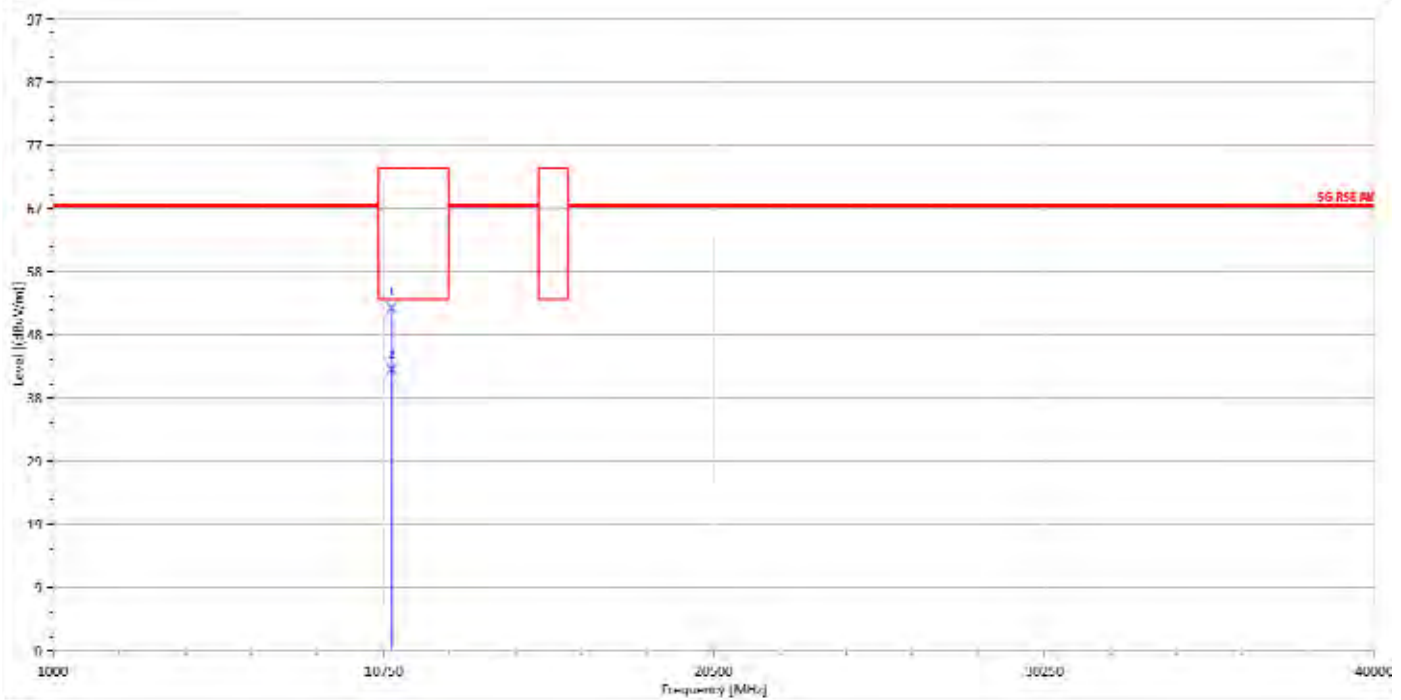
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11000.00	H	Peak	30.56	22.11	52.67	74	-21.33
11000.00	H	Average	21.05	22.11	43.16	54	-10.84

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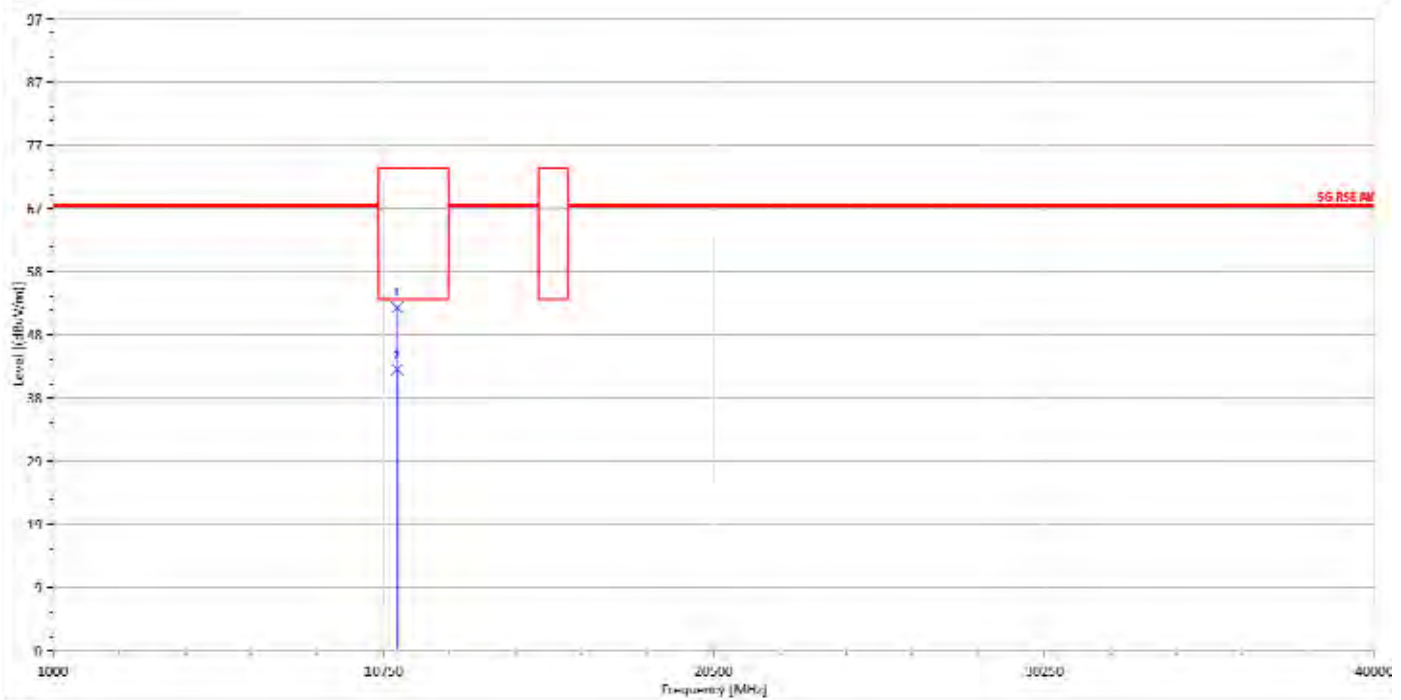
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	30.68	22.04	52.72	74	-21.28
11160.00	H	Average	21.07	22.04	43.11	54	-10.89

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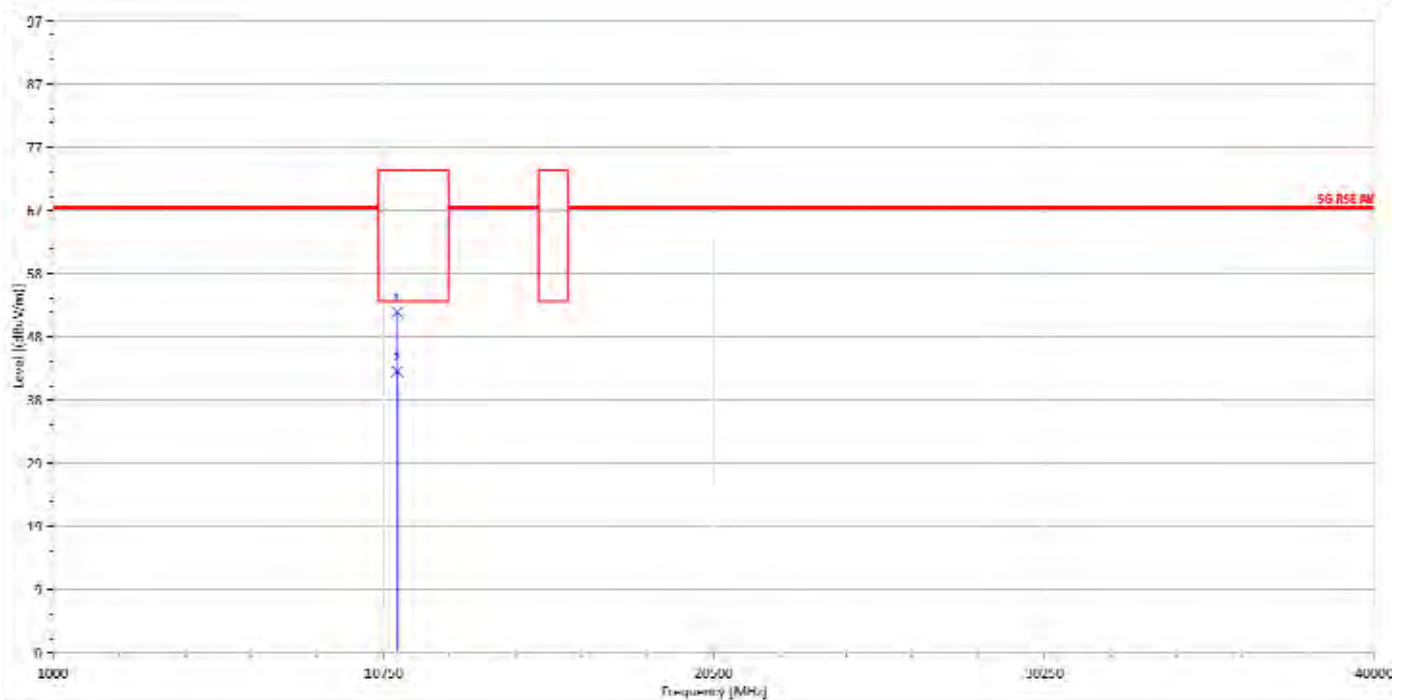
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	30.31	22.04	52.34	74	-21.66
11160.00	H	Average	21.06	22.04	43.10	54	-10.90

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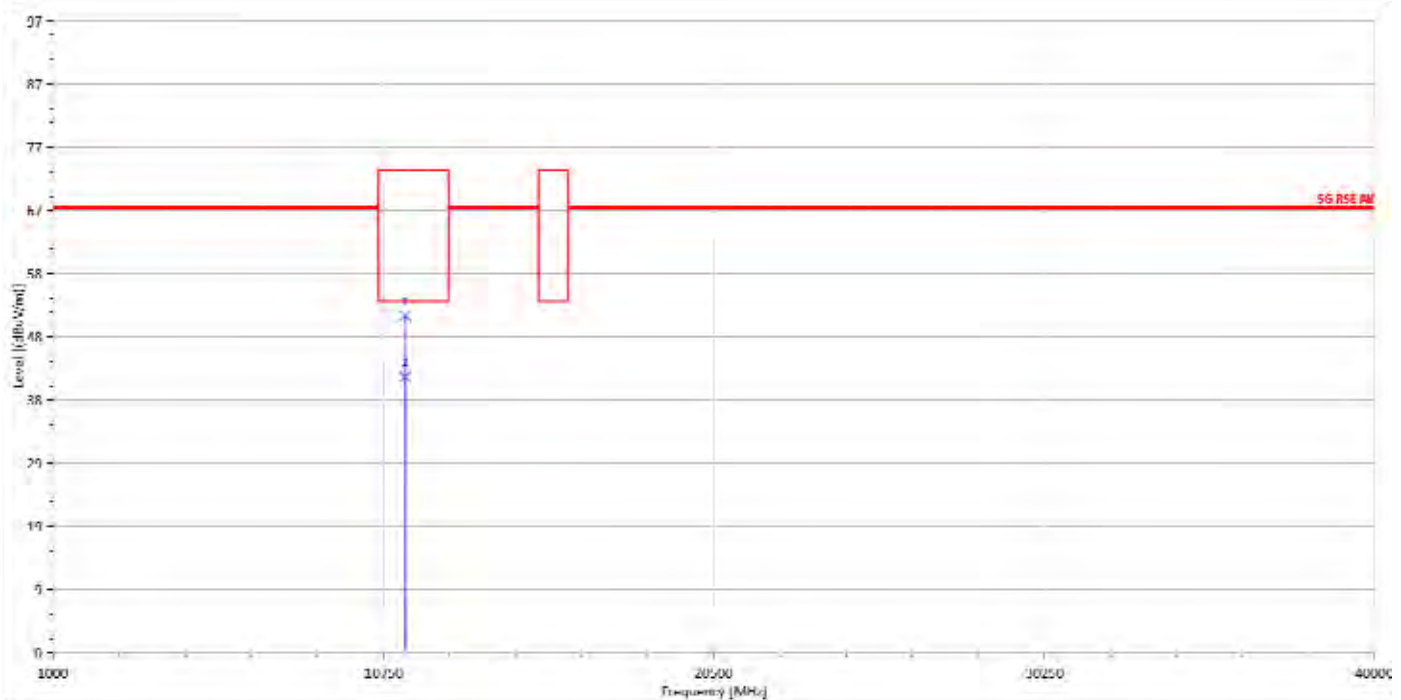
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11400.00	H	Peak	30.50	21.22	51.72	74	-22.28
11400.00	H	Average	21.08	21.22	42.30	54	-11.70

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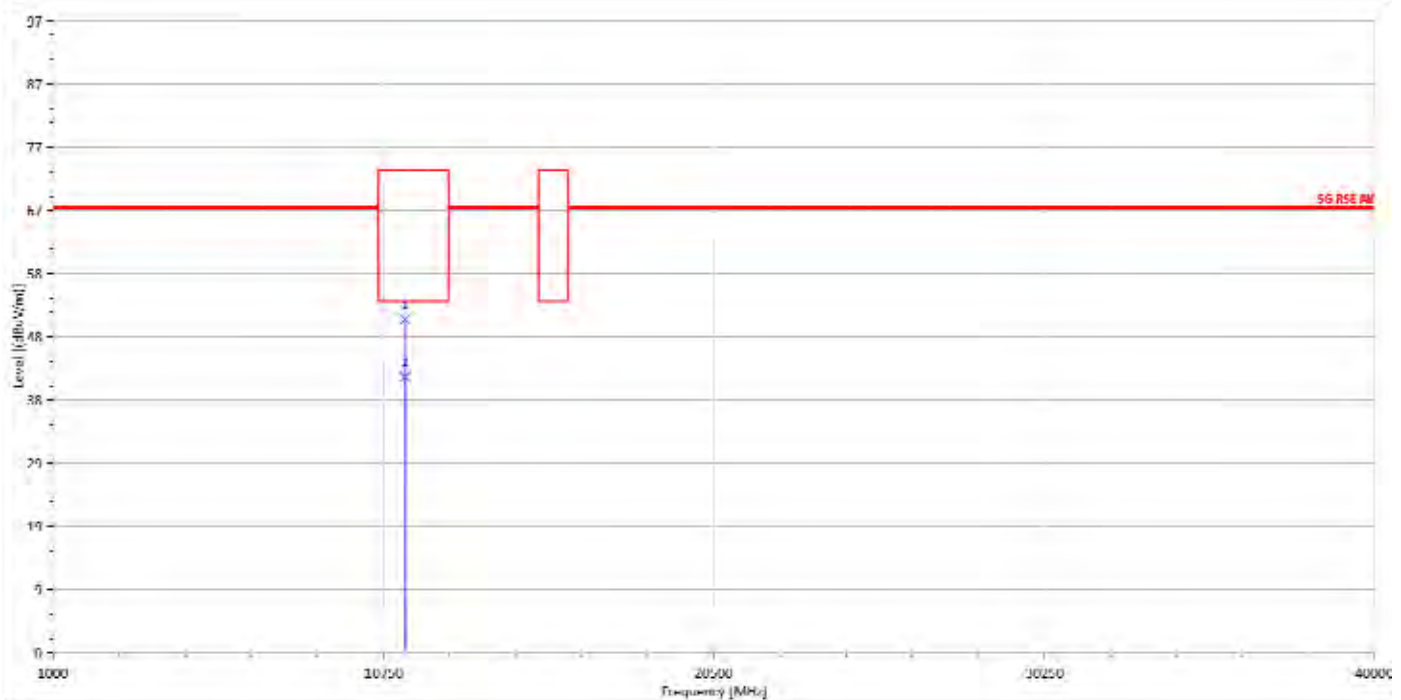
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
11400.00	H	Peak	30.02	21.22	51.23	74	-22.77
11400.00	H	Average	21.08	21.22	42.30	54	-11.70

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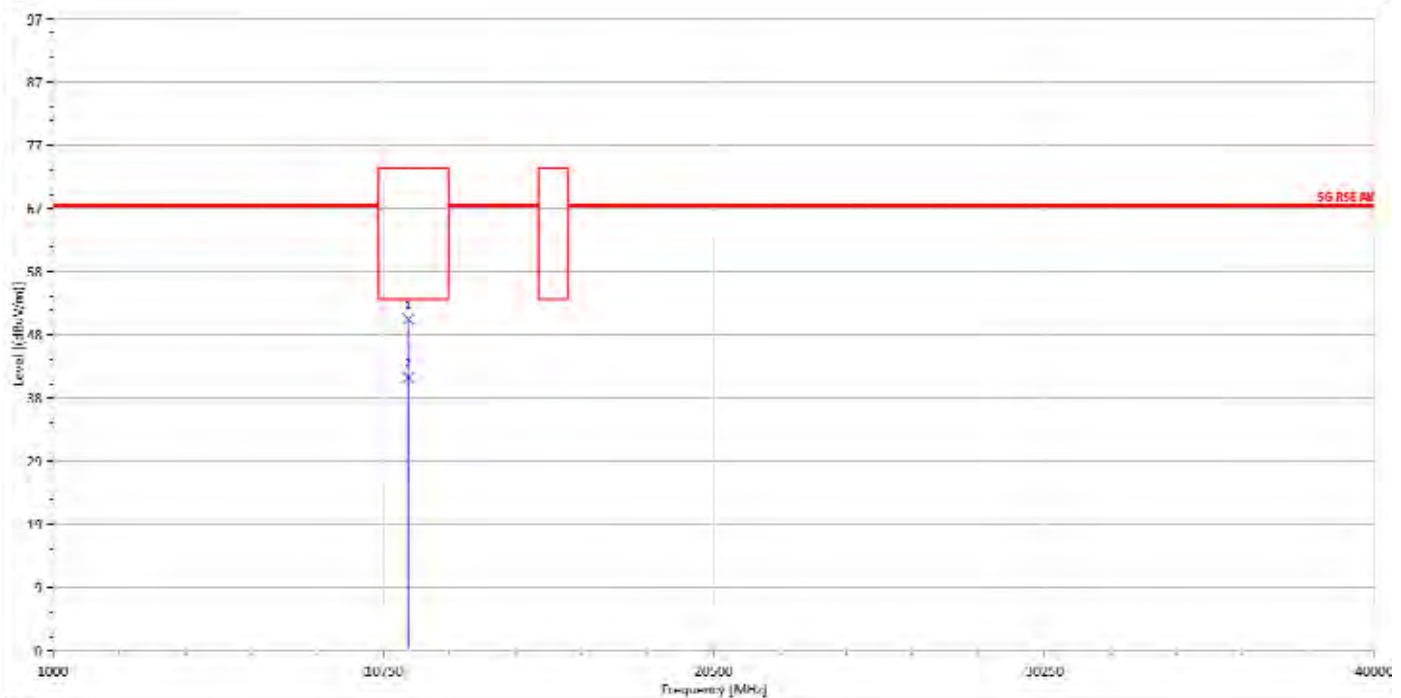
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11490.00	H	Peak	30.22	20.70	50.92	74	-23.08
11490.00	H	Average	21.14	20.70	41.84	54	-12.16

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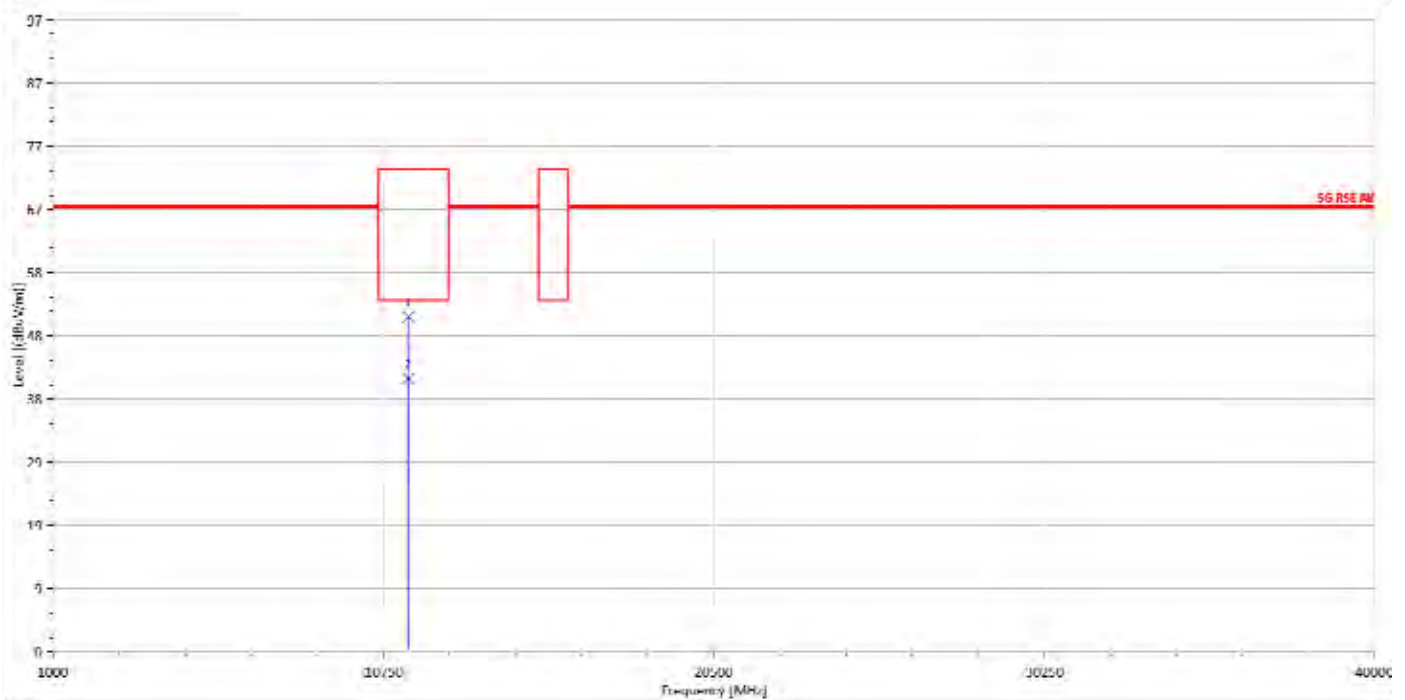
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20	Test Date :	2017/6/17
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11490.00	H	Peak	30.75	20.70	51.45	74	-22.55
11490.00	H	Average	21.12	20.70	41.83	54	-12.17

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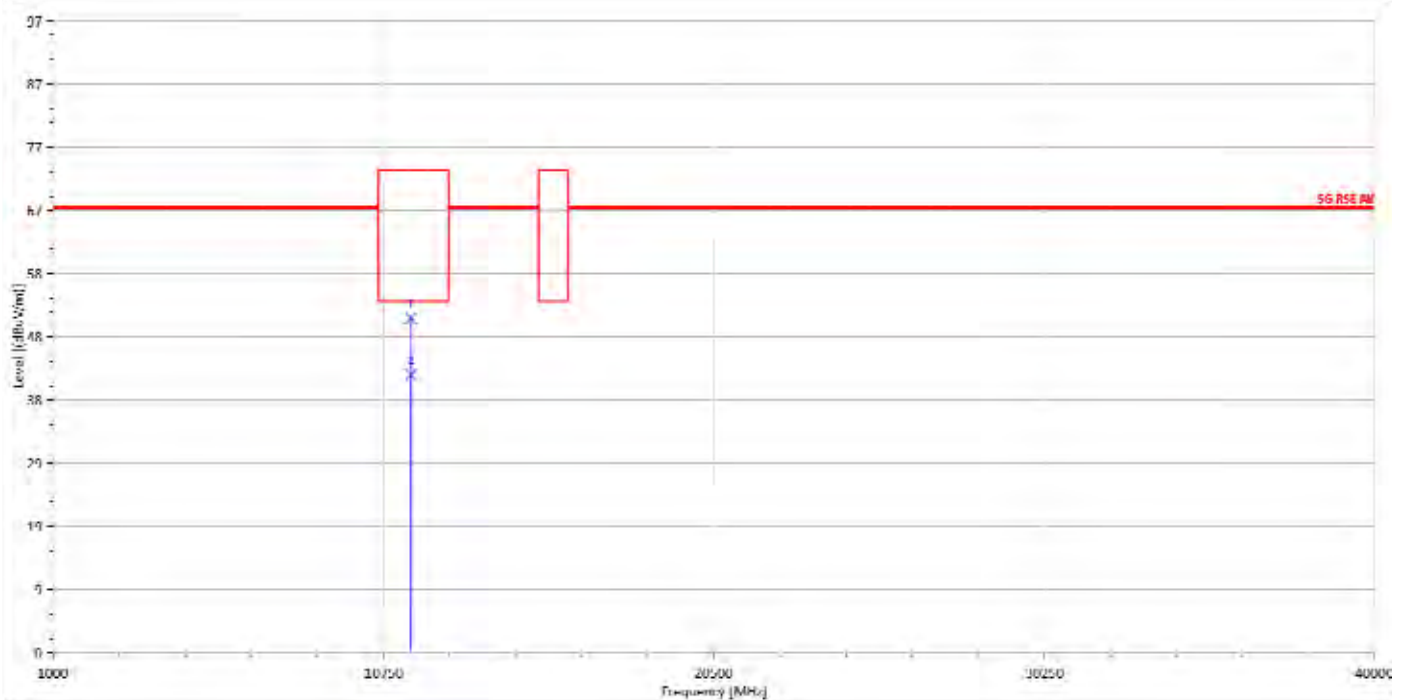
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11570.00	H	Peak	29.93	21.44	51.38	74	-22.62
11570.00	H	Average	21.16	21.44	42.60	54	-11.40

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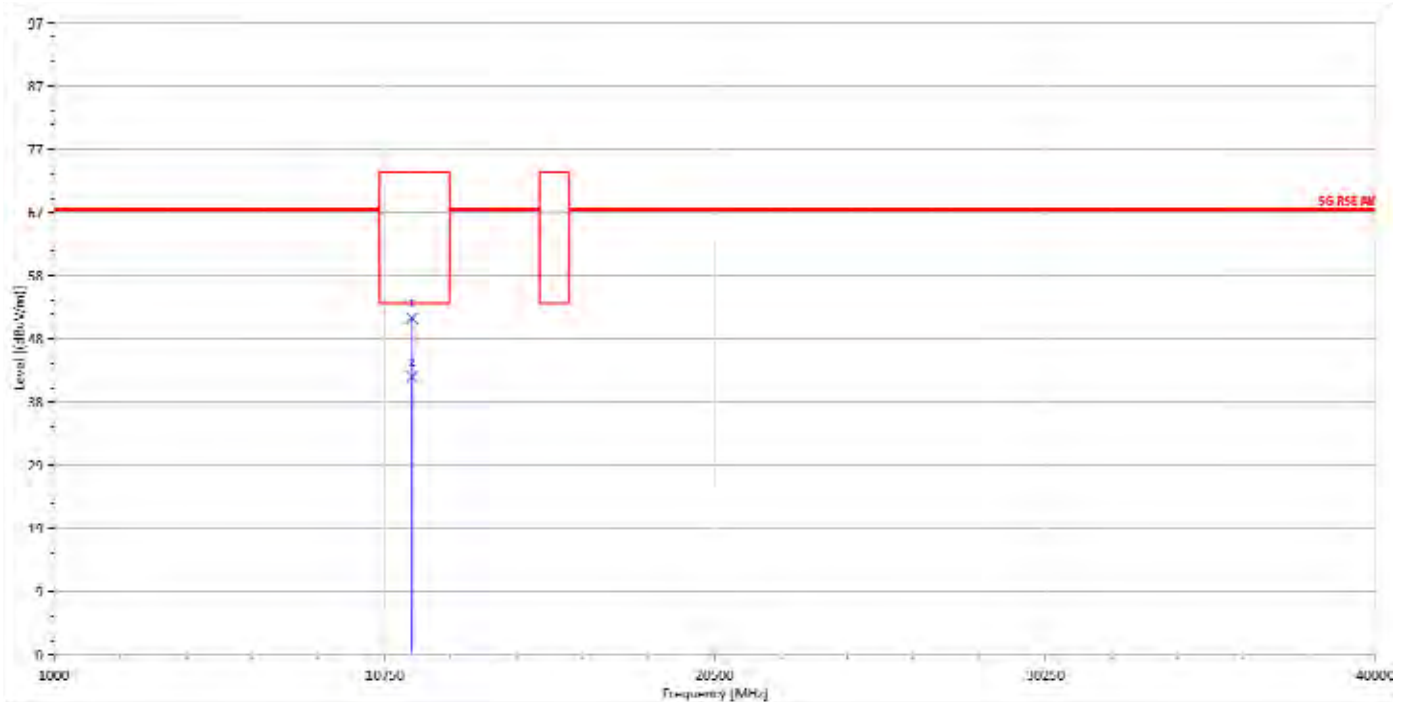
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11570.00	H	Peak	30.24	21.44	51.69	74	-22.31
11570.00	H	Average	21.16	21.44	42.60	54	-11.40

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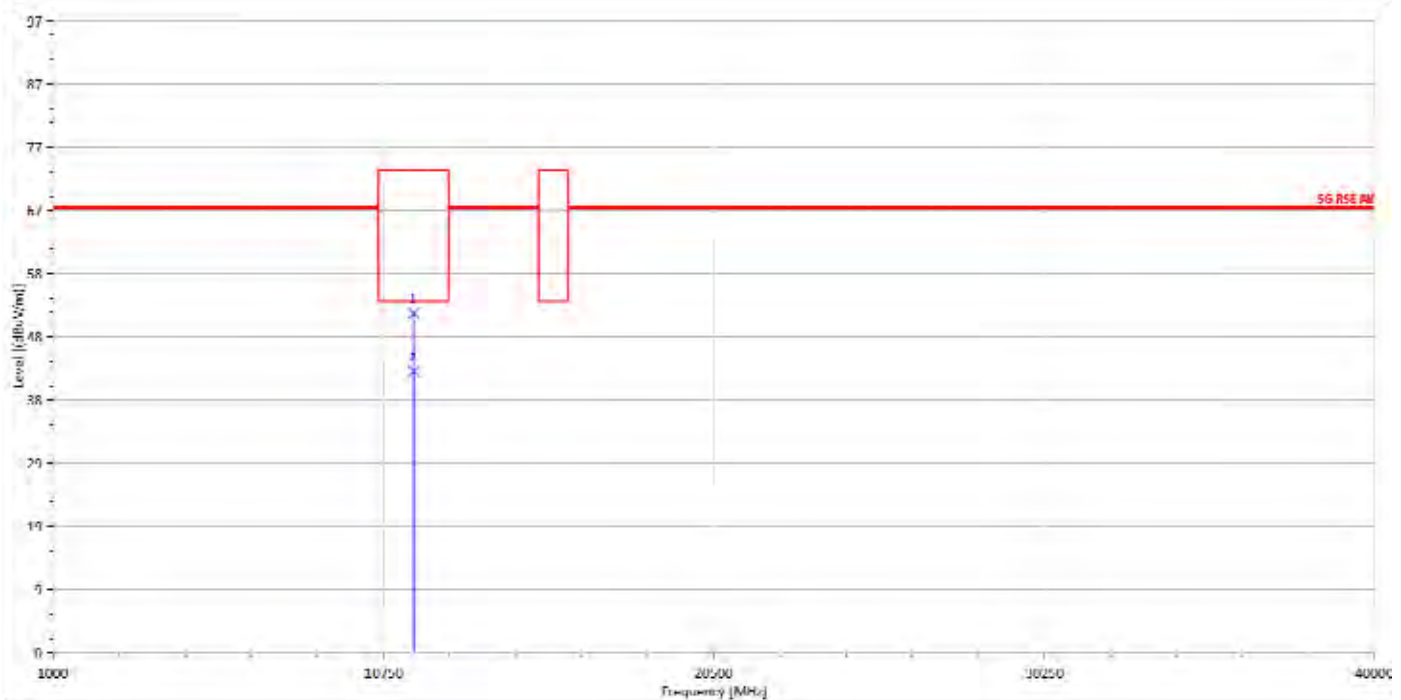
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11650.00	H	Peak	30.11	22.02	52.13	74	-21.87
11650.00	H	Average	21.13	22.02	43.15	54	-10.85

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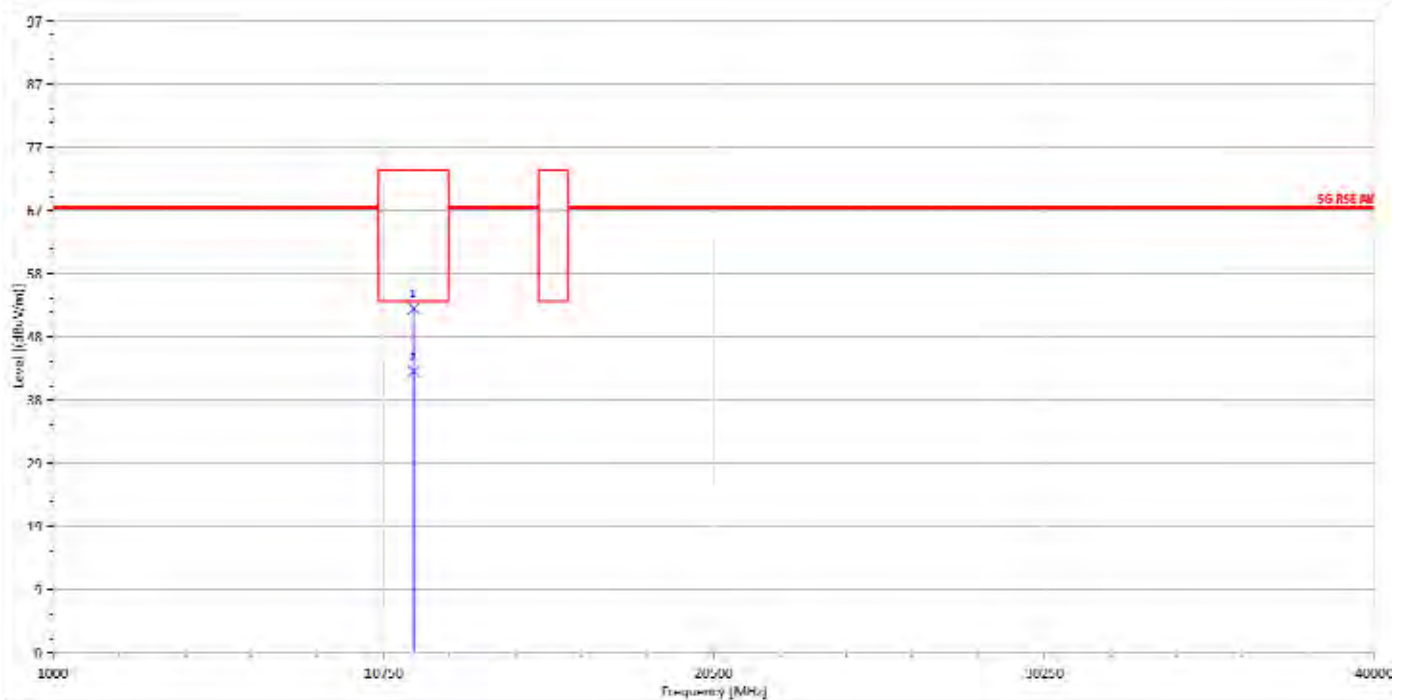
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Operation Mode : 802.11n20 Test Date : 2017/6/17
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11650.00	H	Peak	30.85	22.02	52.87	74	-21.13
11650.00	H	Average	21.13	22.02	43.15	54	-10.85

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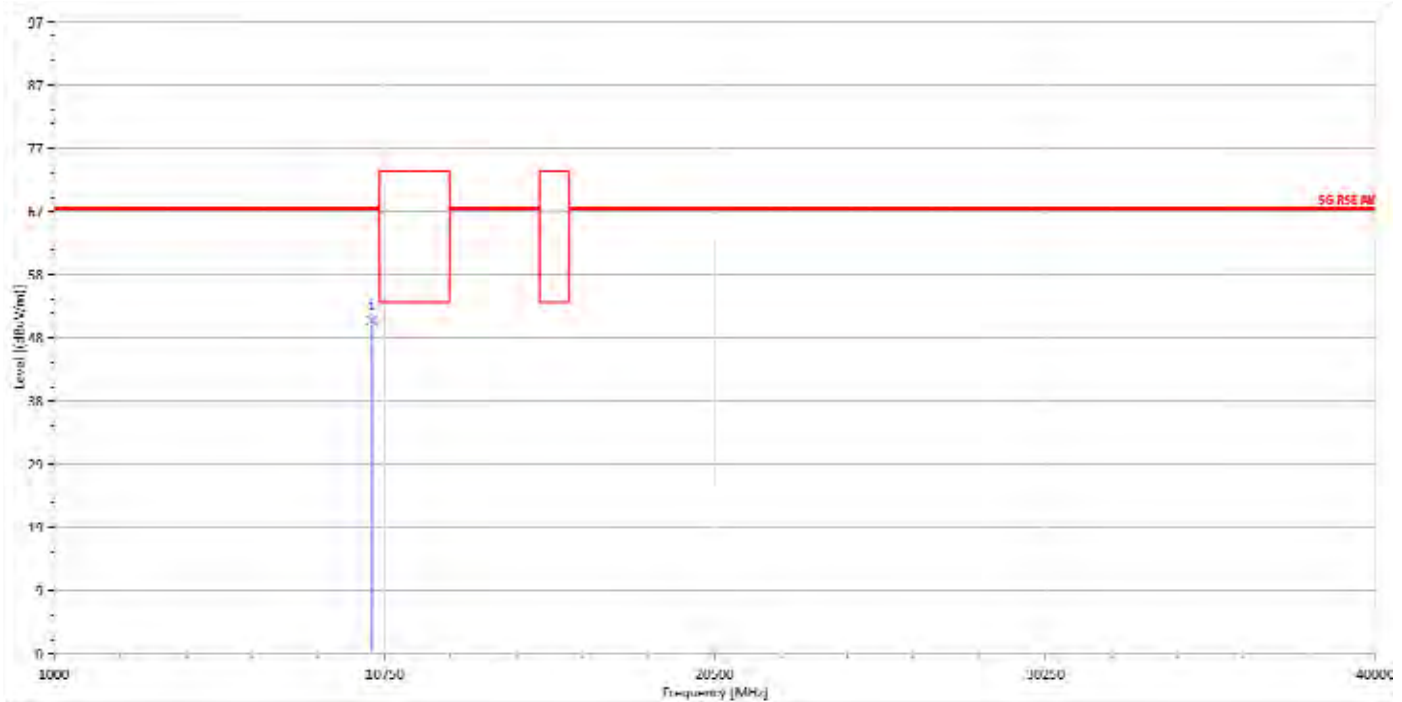
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40	Test Date :	2017/6/17
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
10380.00	H	Peak	30.24	20.95	51.19	68.3	-17.11

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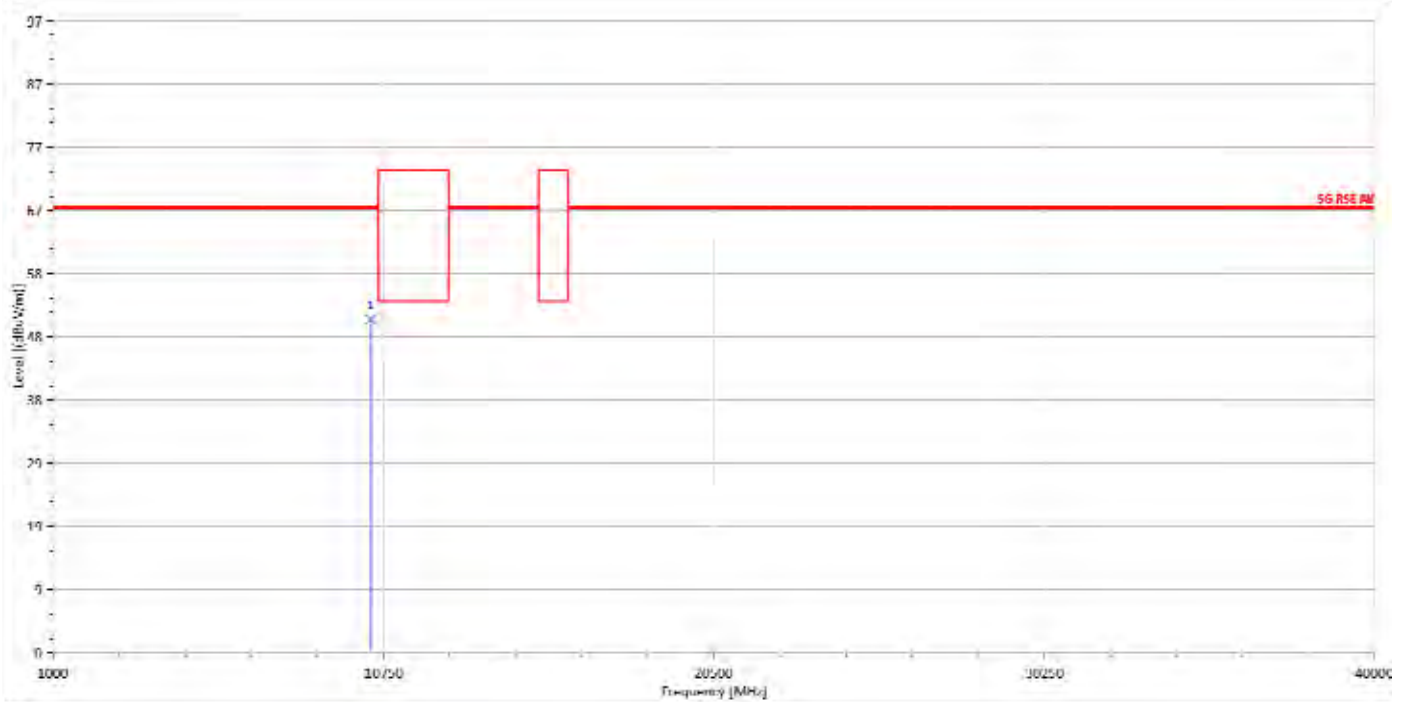
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Operation Mode : 802.11n40 Test Date : 2017/6/17
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	30.26	20.95	51.21	68.3	-17.09

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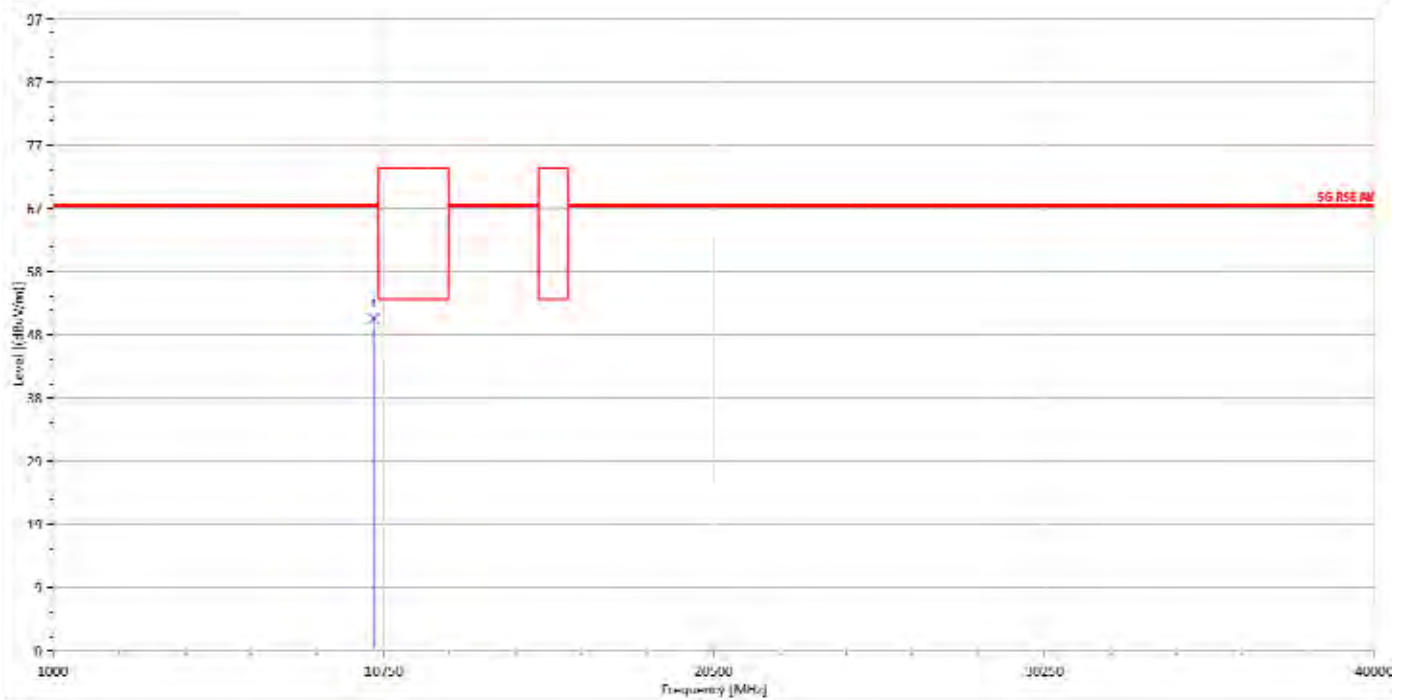
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Operation Mode : 802.11n40 Test Date : 2017/6/17
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
10460.00	H	Peak	30.08	20.95	51.03	68.3	-17.27

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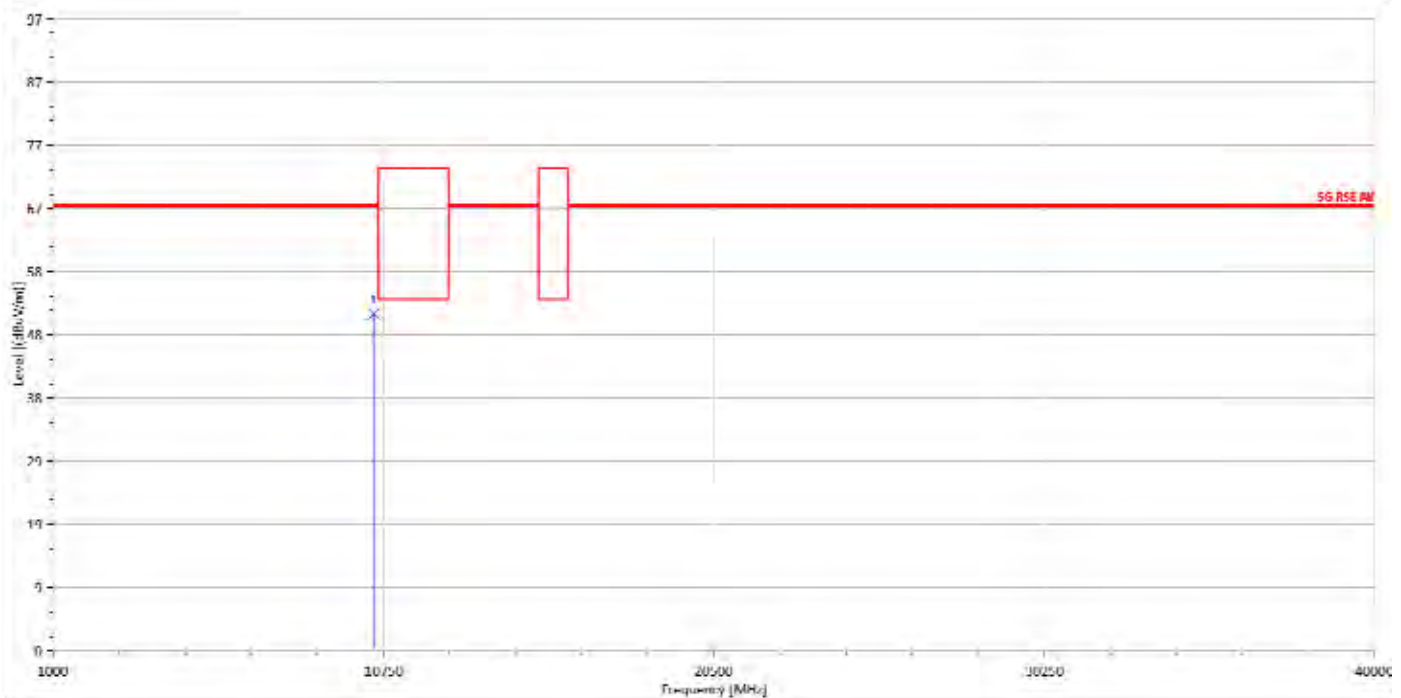
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Operation Mode : 802.11n40 Test Date : 2017/6/17
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
10460.00	H	Peak	30.78	20.95	51.73	68.3	-16.57

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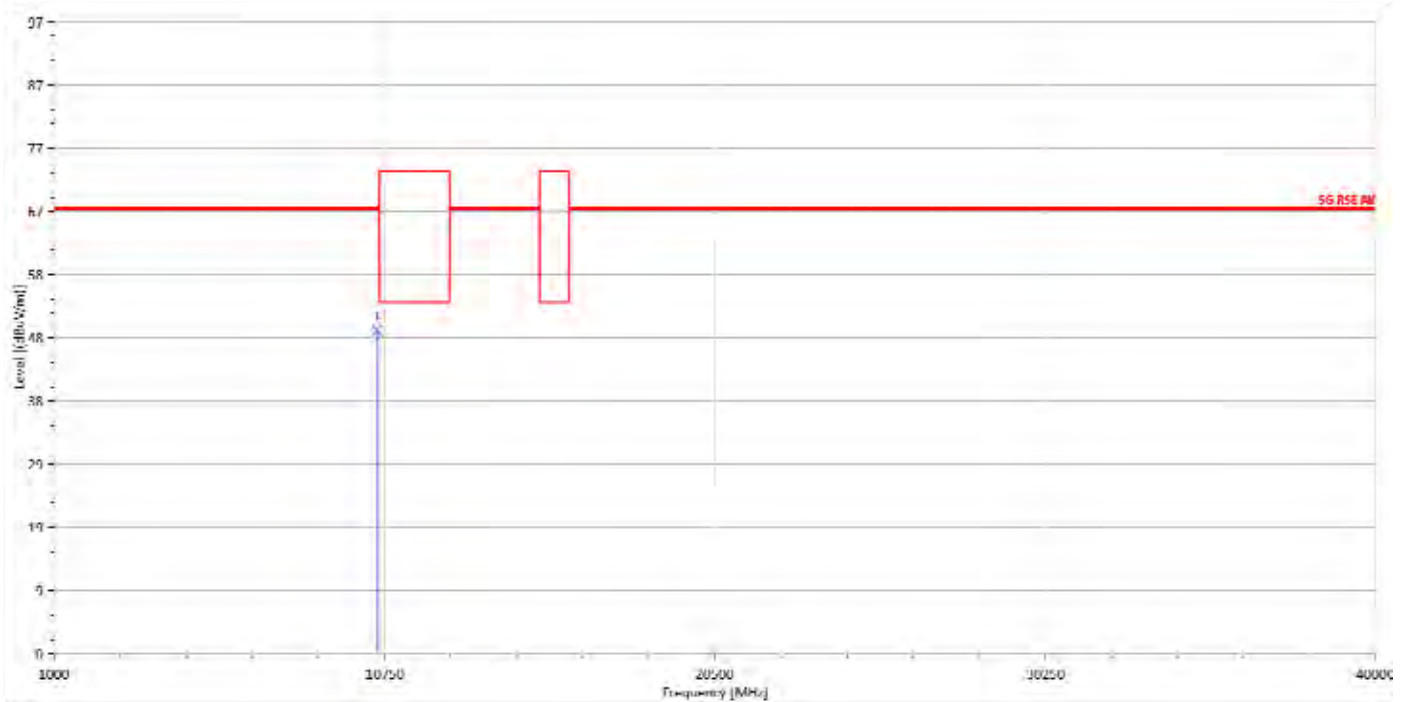
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40	Test Date :	2017/6/17
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
10540.00	H	Peak	29.57	20.06	49.63	68.3	-18.67

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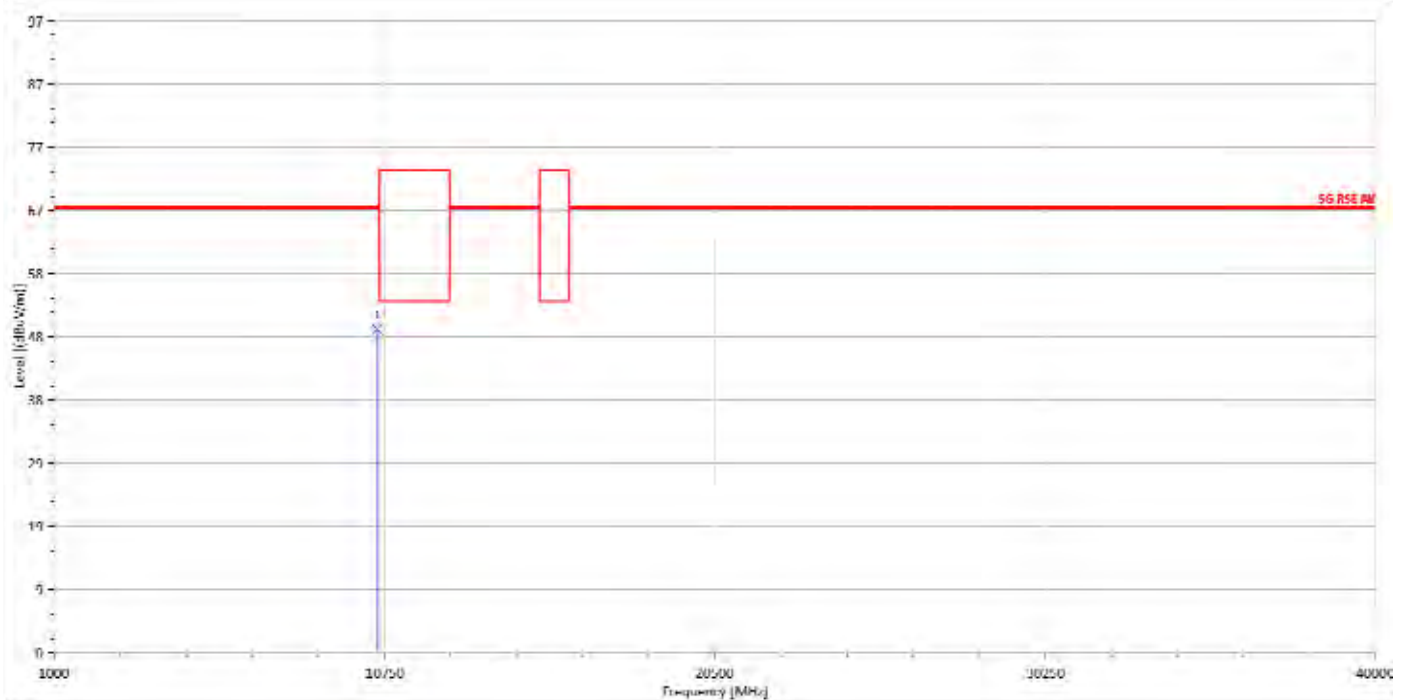
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Operation Mode : 802.11n40 Test Date : 2017/6/17
 Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
10540.00	H	Peak	29.62	20.06	49.68	68.3	-18.62

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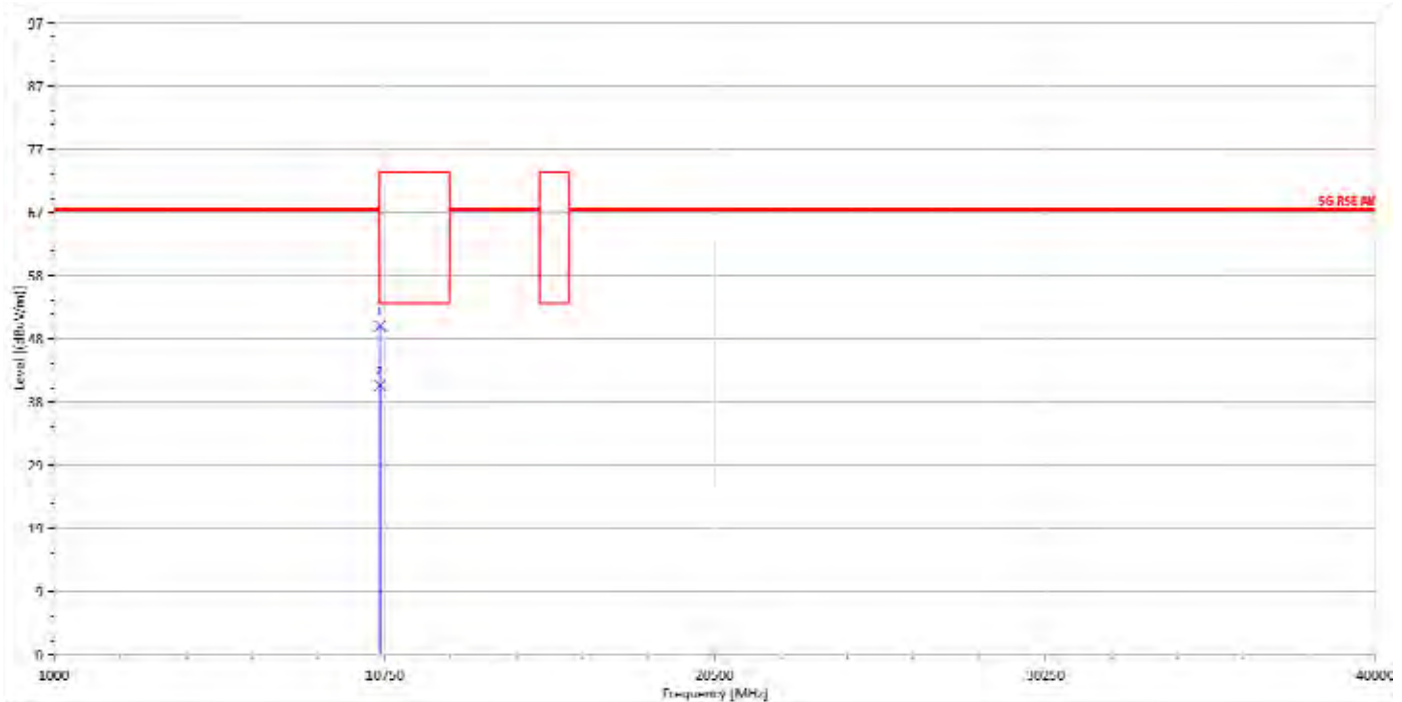
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Operation Mode : 802.11n40 Test Date : 2017/6/17
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
10620.00	H	Peak	30.22	20.29	50.51	74	-23.49
10620.00	H	Average	20.98	20.29	41.27	54	-12.73

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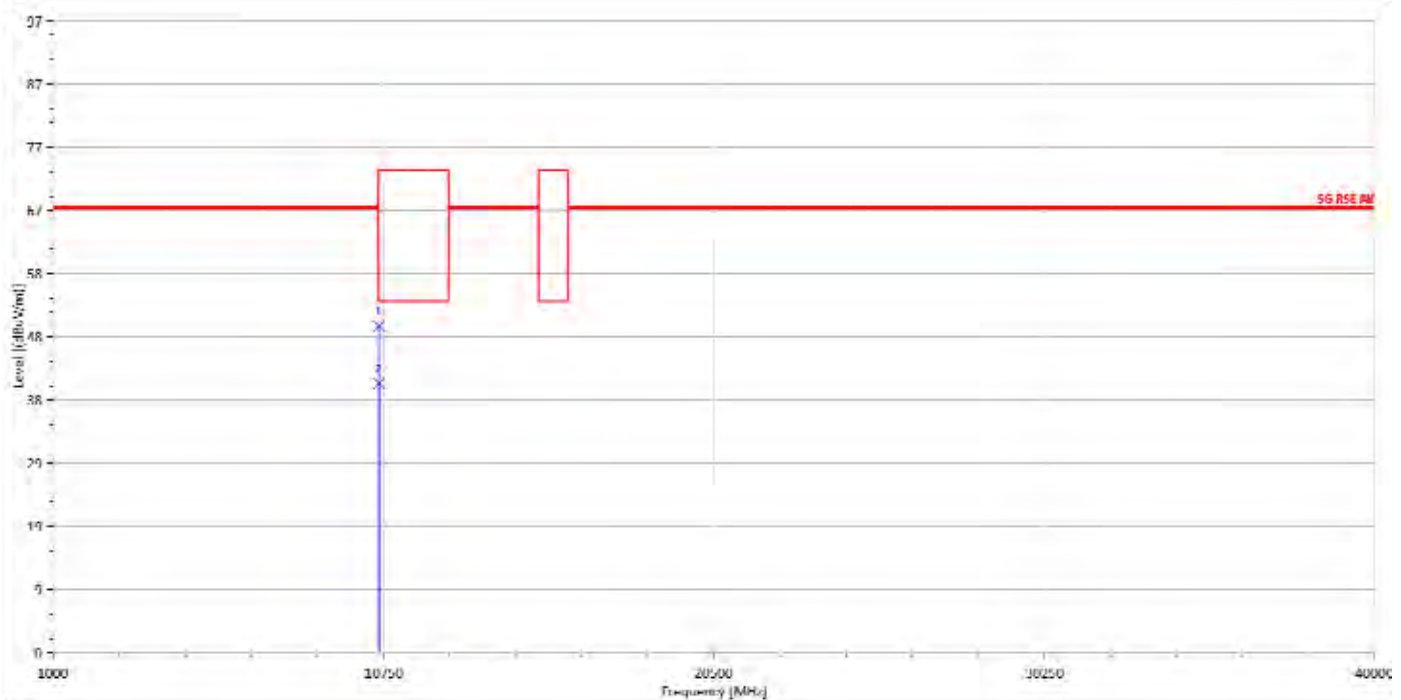
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Operation Mode : 802.11n40 Test Date : 2017/6/17
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	29.89	20.29	50.18	74	-23.82
10620.00	H	Average	20.98	20.29	41.27	54	-12.73

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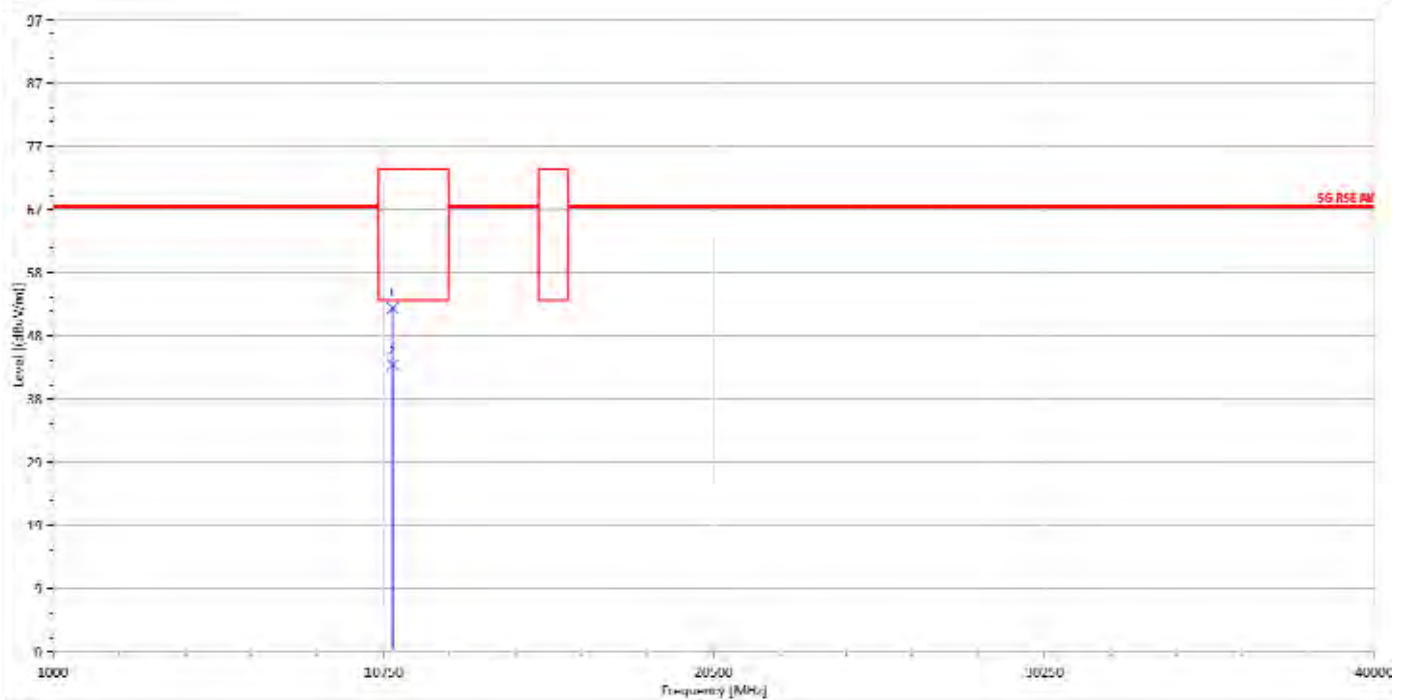
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40	Test Date :	2017/6/17
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
11020.00	H	Peak	29.91	22.90	52.81	74	-21.19
11020.00	H	Average	21.09	22.90	43.99	54	-10.01

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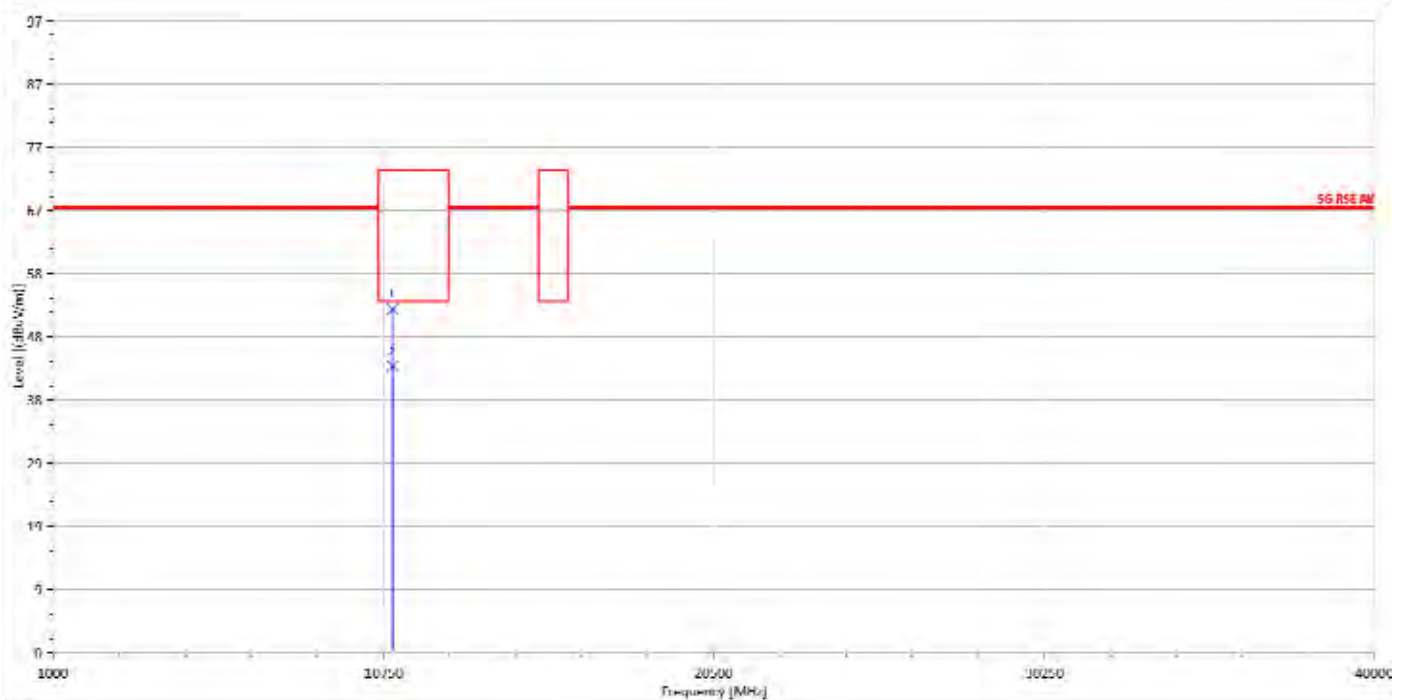
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f (886-2) 2298-0488

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Operation Mode : 802.11n40 Test Date : 2017/6/17
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11020.00	H	Peak	29.88	22.90	52.78	74	-21.22
11020.00	H	Average	21.08	22.90	43.98	54	-10.02

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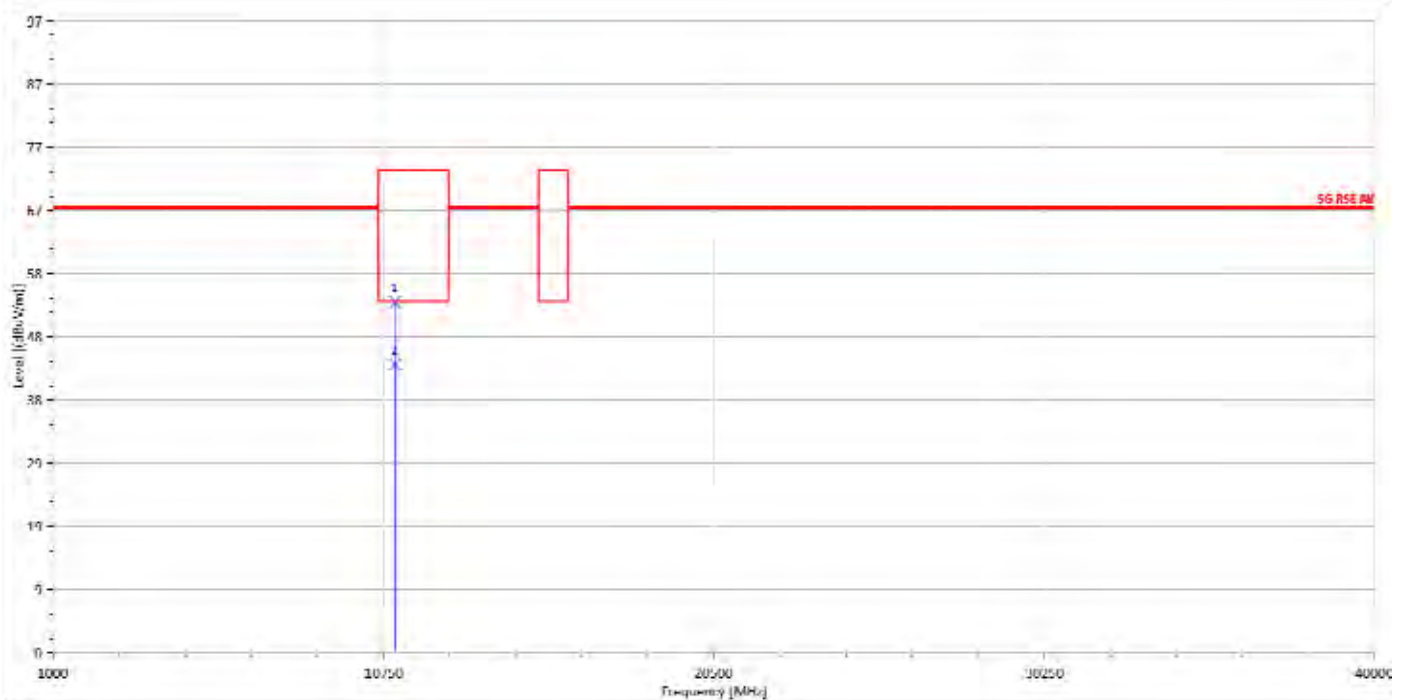
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Operation Mode : 802.11n40 Test Date : 2017/6/17
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.00	H	Peak	30.67	23.16	53.84	74	-20.16
11100.00	H	Average	21.02	23.16	44.18	54	-9.82

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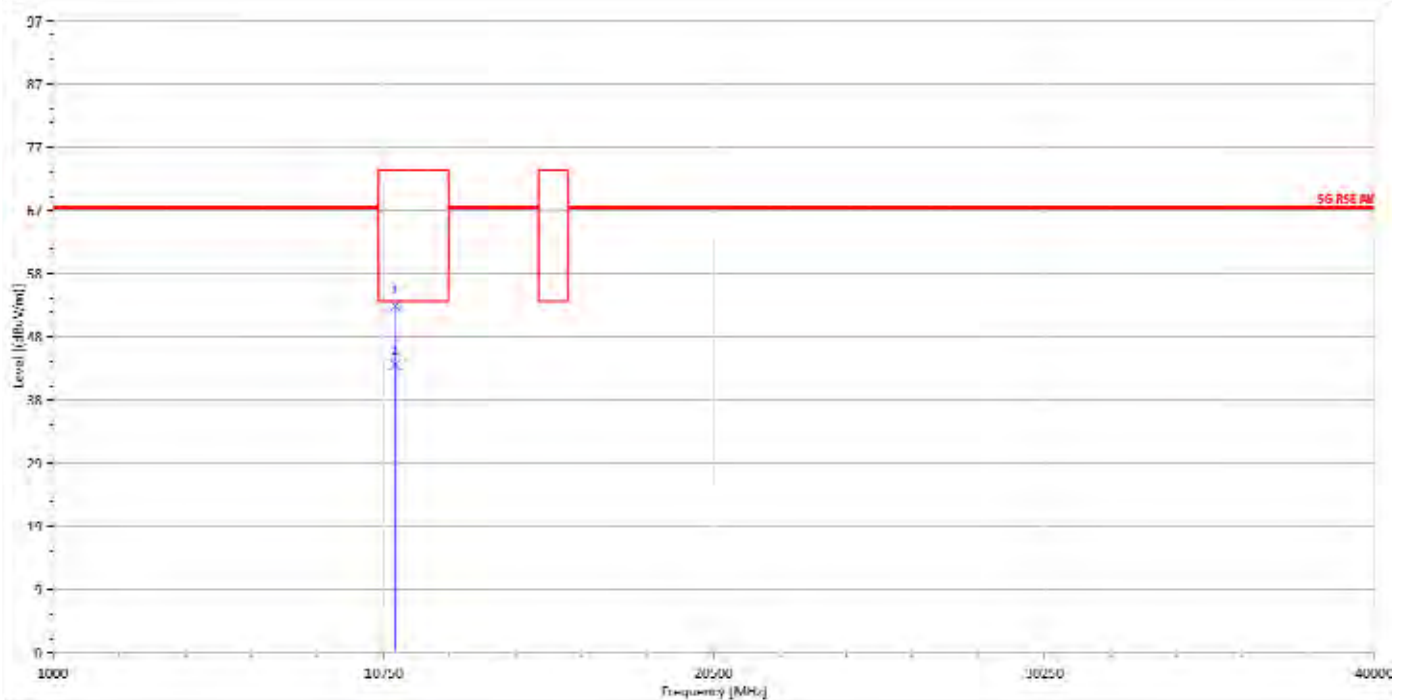
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Operation Mode : 802.11n40 Test Date : 2017/6/17
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	30.11	23.16	53.27	74	-20.73
11100.00	H	Average	21.02	23.16	44.18	54	-9.82

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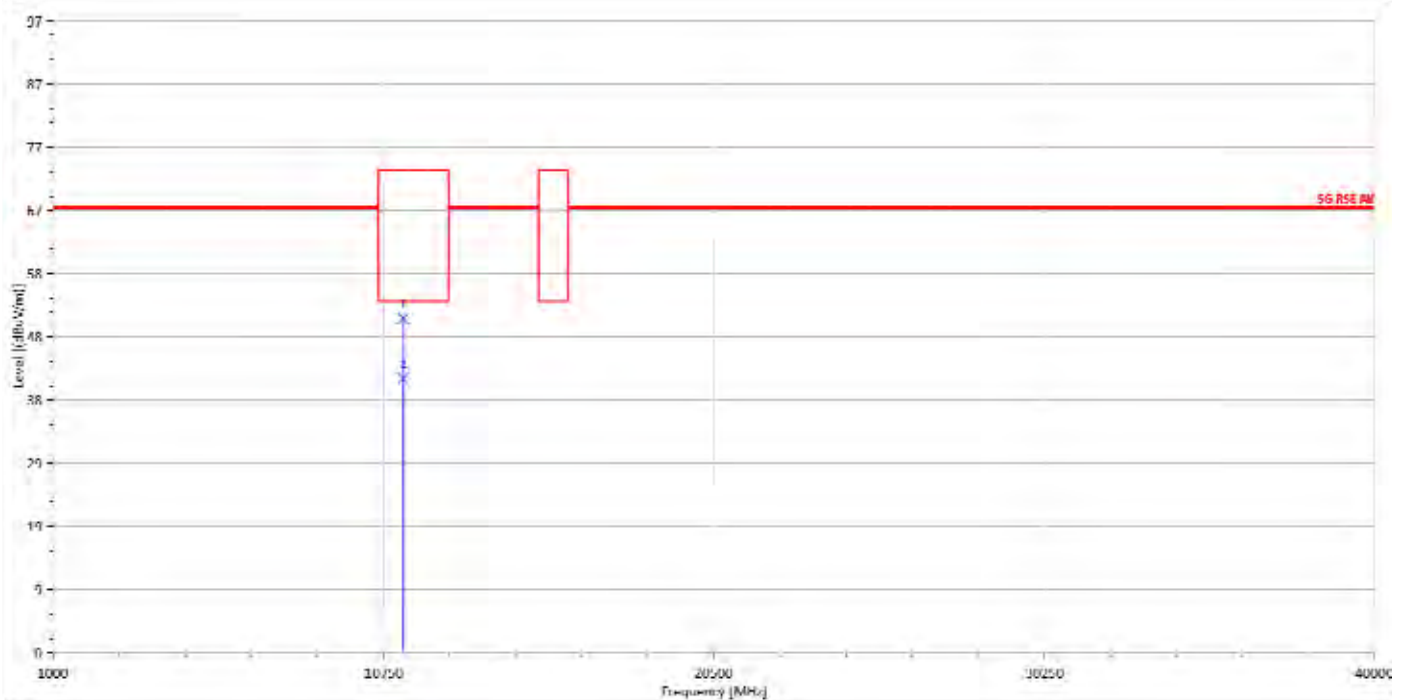
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Operation Mode : 802.11n40 Test Date : 2017/6/17
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11340.00	H	Peak	30.39	20.97	51.35	74	-22.65
11340.00	H	Average	21.06	20.97	42.03	54	-11.97

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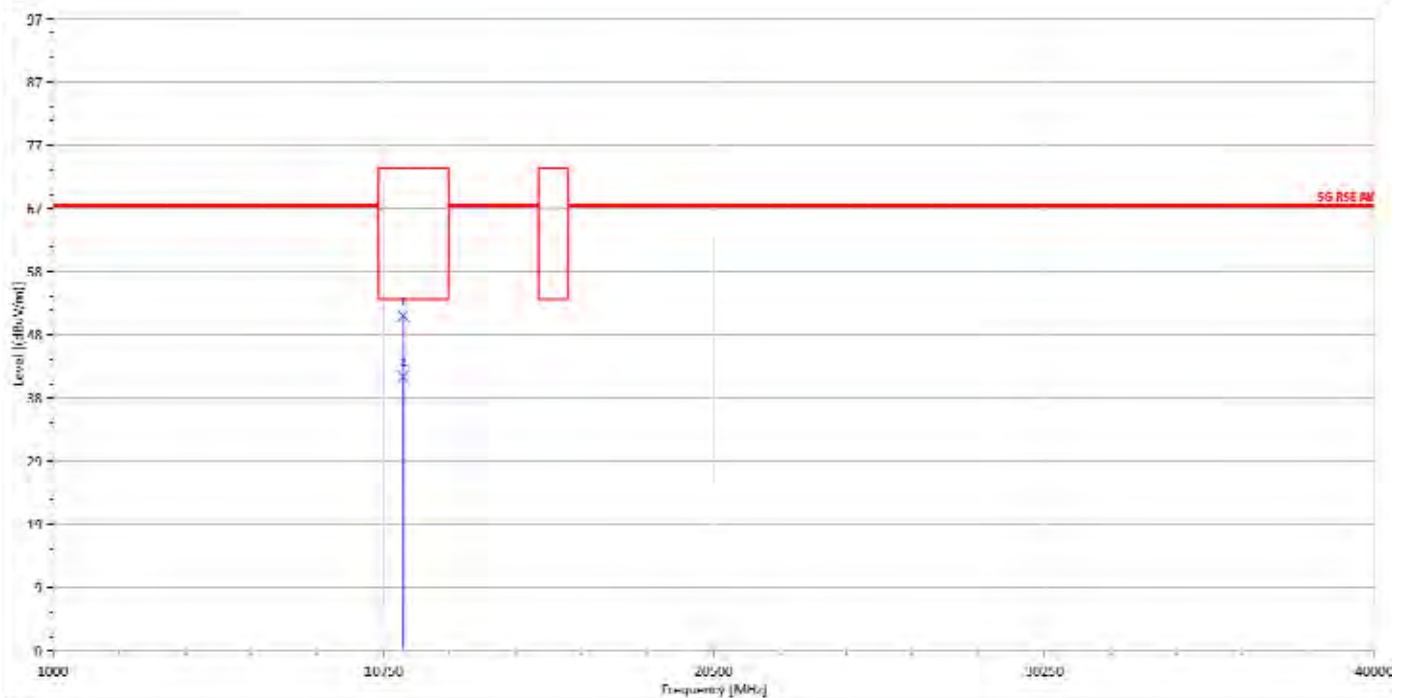
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Operation Mode : 802.11n40 Test Date : 2017/6/17
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11340.00	H	Peak	30.47	20.97	51.44	74	-22.56
11340.00	H	Average	21.03	20.97	42.00	54	-12.00

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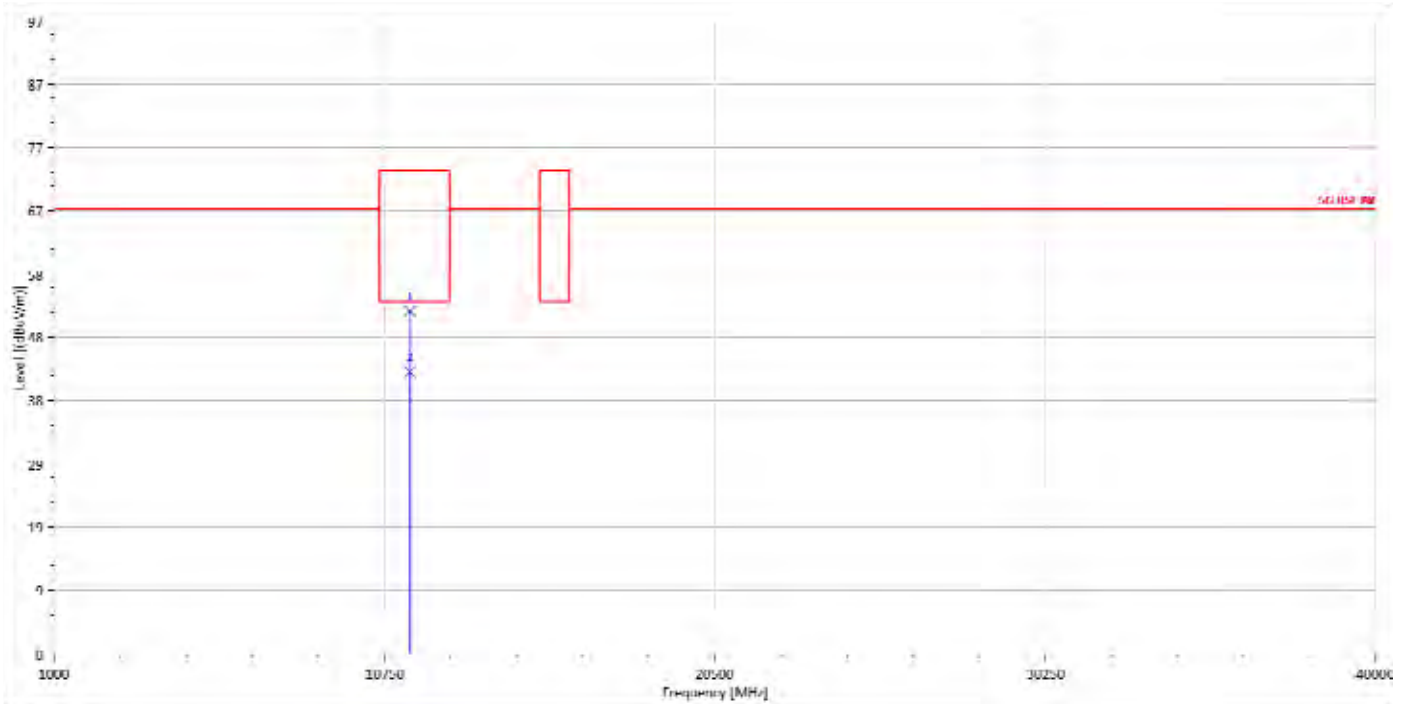
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40	Test Date :	2017/6/17
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
11510.00	H	Peak	30.38	22.17	52.54	74	-21.46
11510.00	H	Average	21.13	22.17	43.30	54	-10.70

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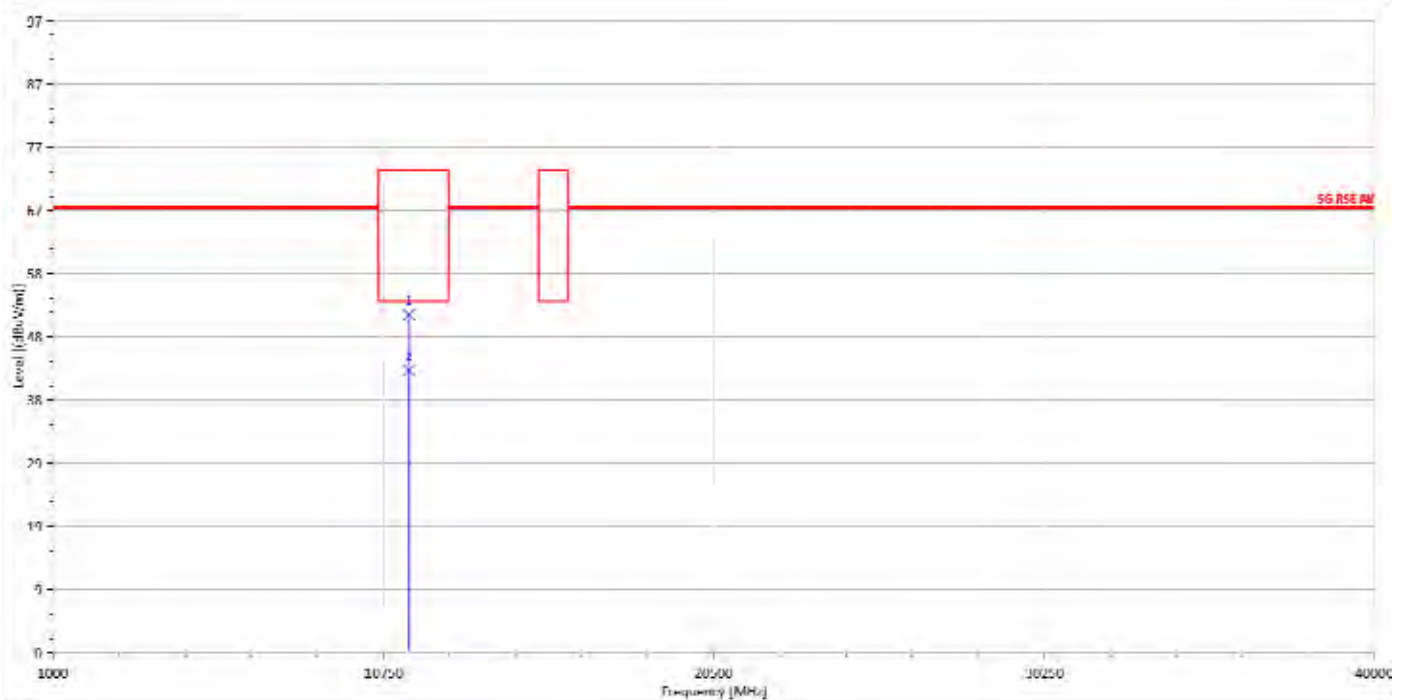
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Operation Mode : 802.11n40 Test Date : 2017/6/17
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11510.00	H	Peak	29.74	22.17	51.91	74	-22.09
11510.00	H	Average	21.12	22.17	43.29	54	-10.71

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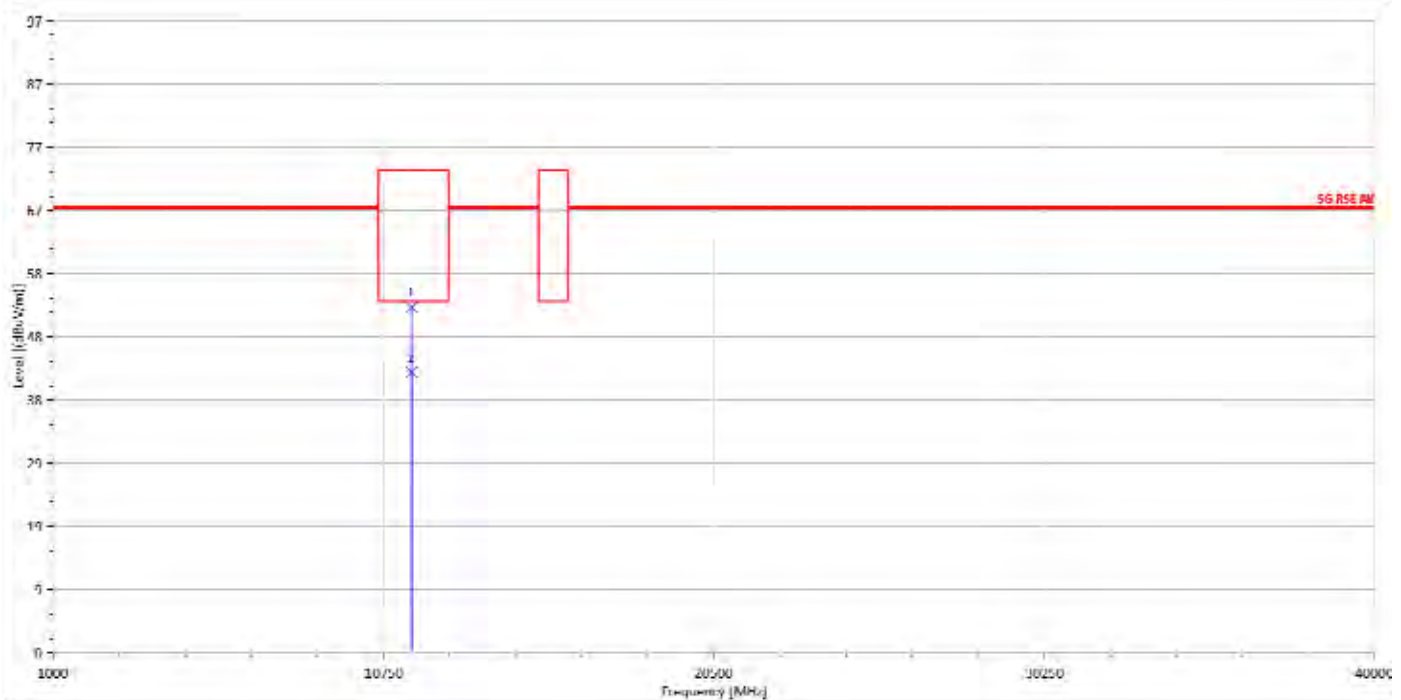
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Operation Mode : 802.11n40 Test Date : 2017/6/17
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
11590.00	H	Peak	31.22	21.84	53.07	74	-20.93
11590.00	H	Average	21.15	21.84	42.99	54	-11.01

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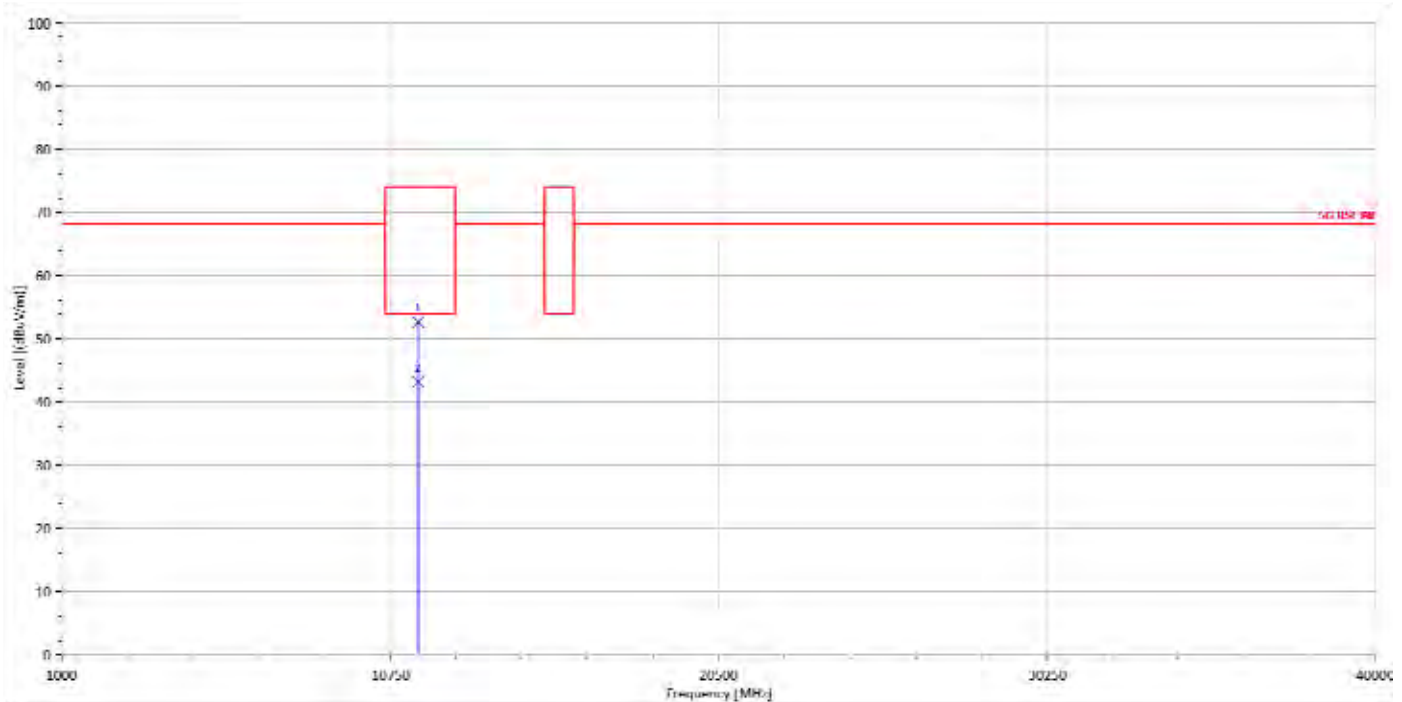
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Operation Mode : 802.11n40 Test Date : 2017/6/17
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @ 3m dBµV/m	Margin dB
11590.00	H	Peak	30.99	21.84	52.83	74	-21.17
11590.00	H	Average	21.15	21.84	42.99	54	-11.01

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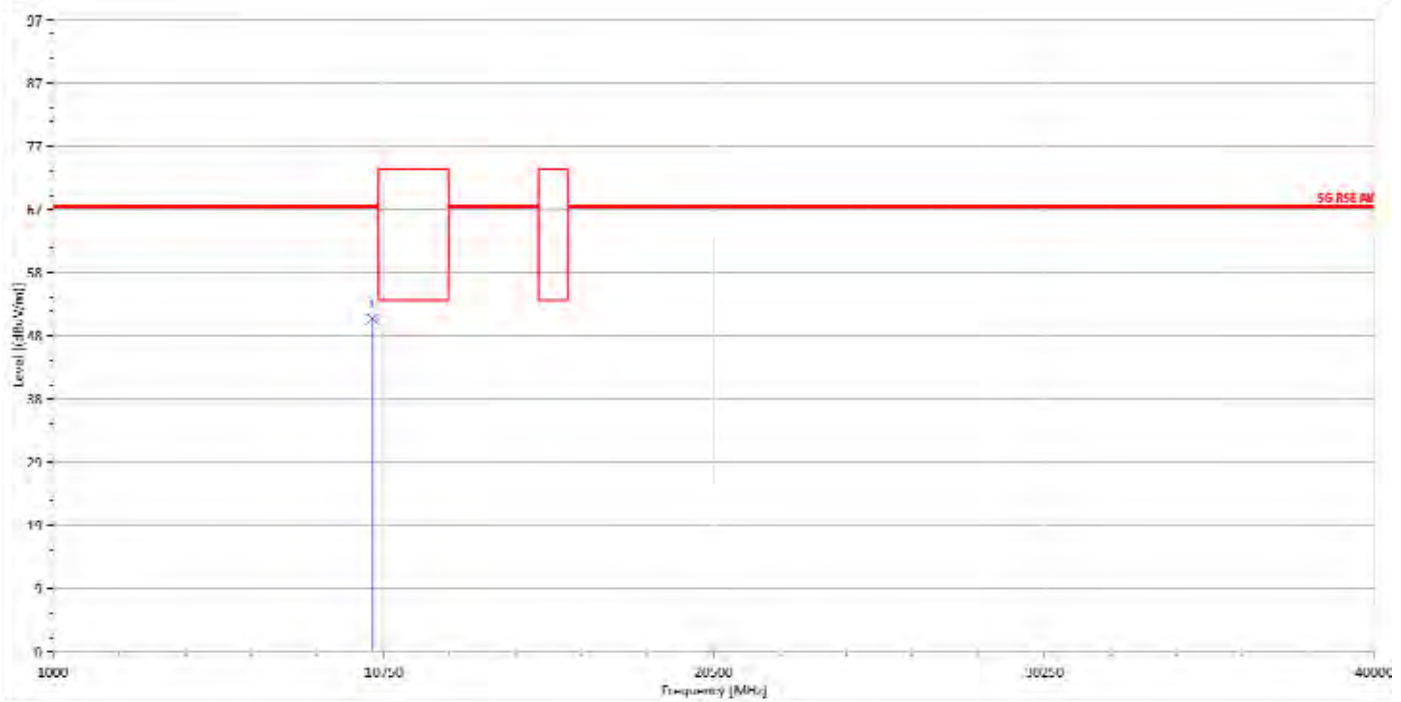
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80	Test Date :	2017/6/17
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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	30.45	20.67	51.12	68.3	-17.18

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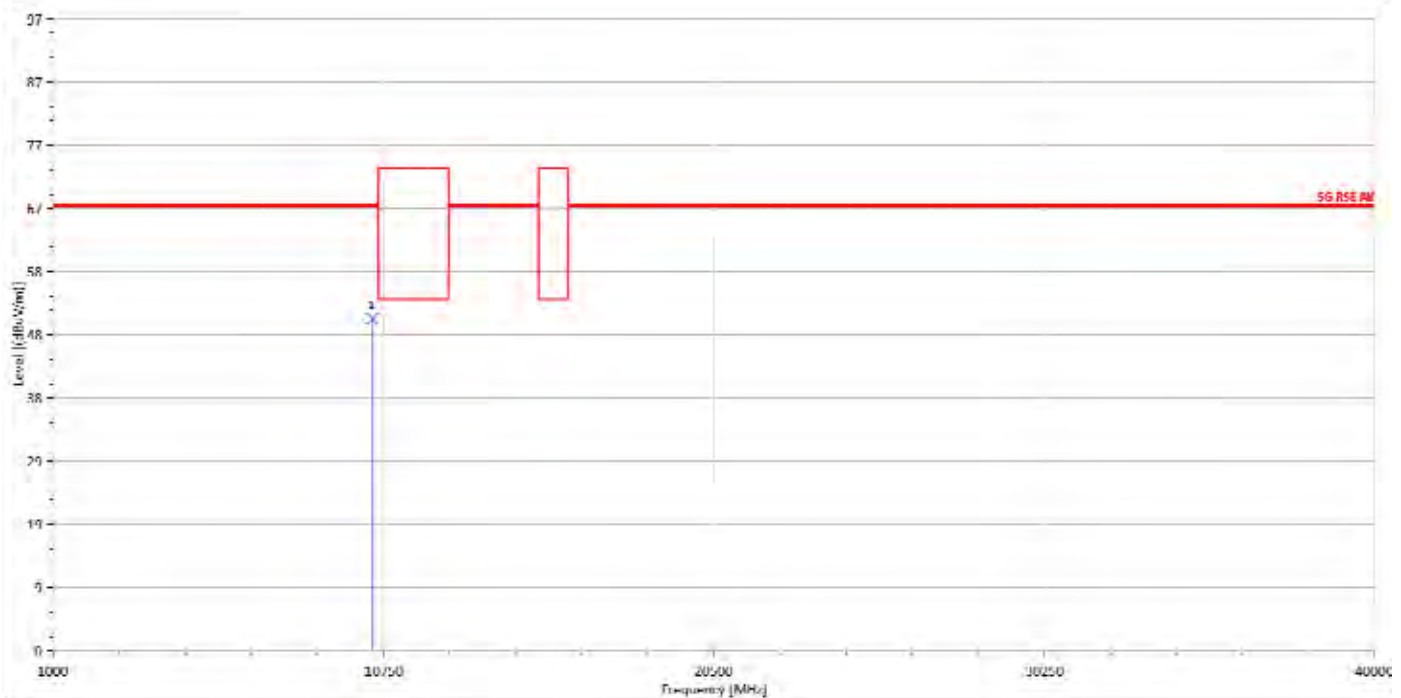
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Operation Mode : 802.11ac80 Test Date : 2017/6/17
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
10420.00	H	Peak	30.31	20.67	50.98	68.3	-17.32

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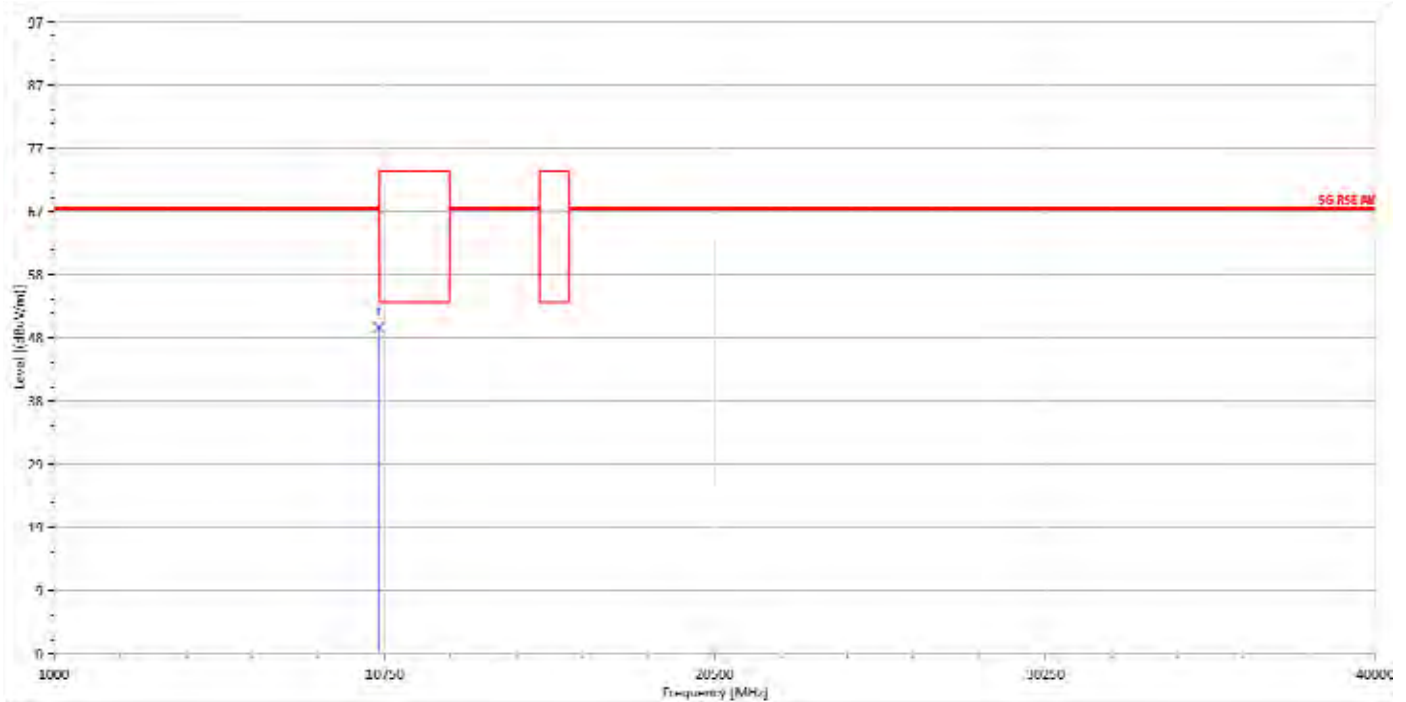
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80	Test Date :	2017/6/17
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	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
10580.00	H	Peak	30.02	20.12	50.14	68.3	-18.16

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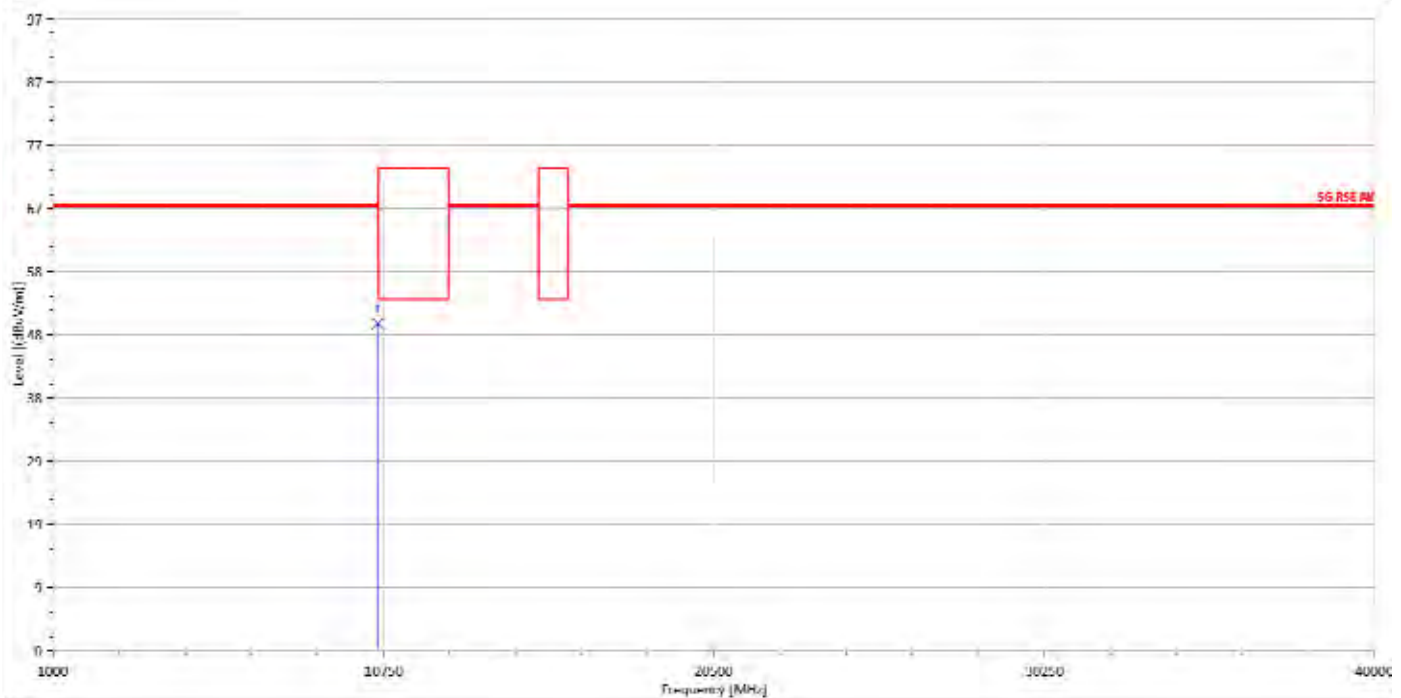
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Operation Mode : 802.11ac80 Test Date : 2017/6/17
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	H	Peak	30.10	20.12	50.22	68.3	-18.08

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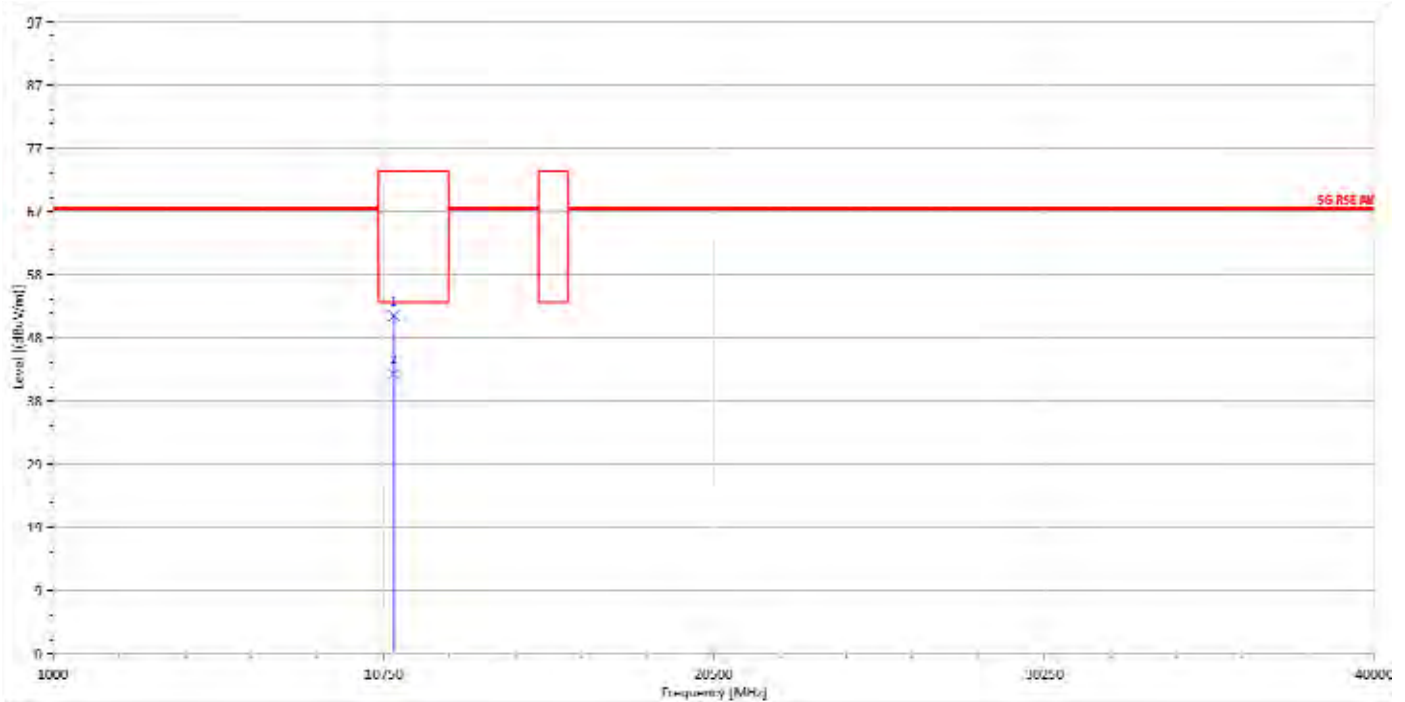
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80	Test Date :	2017/6/17
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
11060.00	H	Peak	30.07	21.83	51.90	74	-22.10
11060.00	H	Average	21.04	21.83	42.87	54	-11.13

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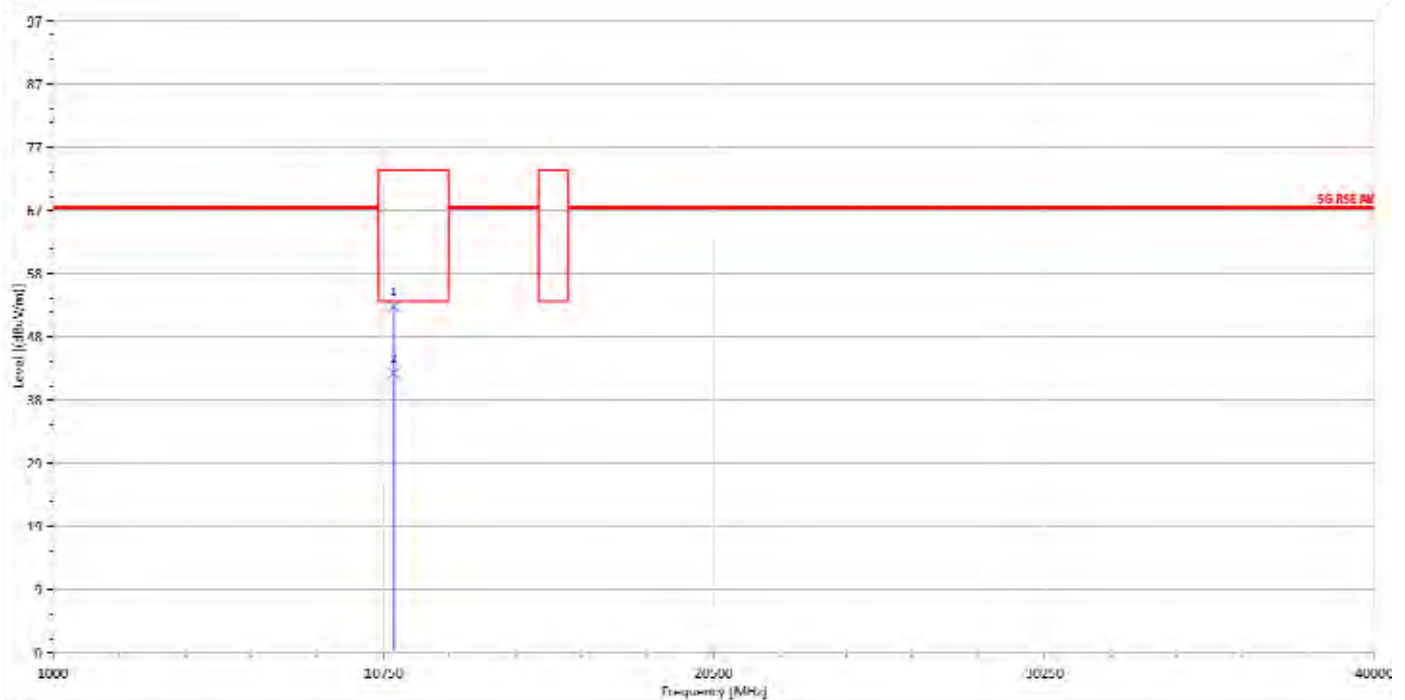
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Operation Mode : 802.11ac80 Test Date : 2017/6/17
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
11060.00	H	Peak	31.41	21.83	53.24	74	-20.76
11060.00	H	Average	21.03	21.83	42.86	54	-11.14

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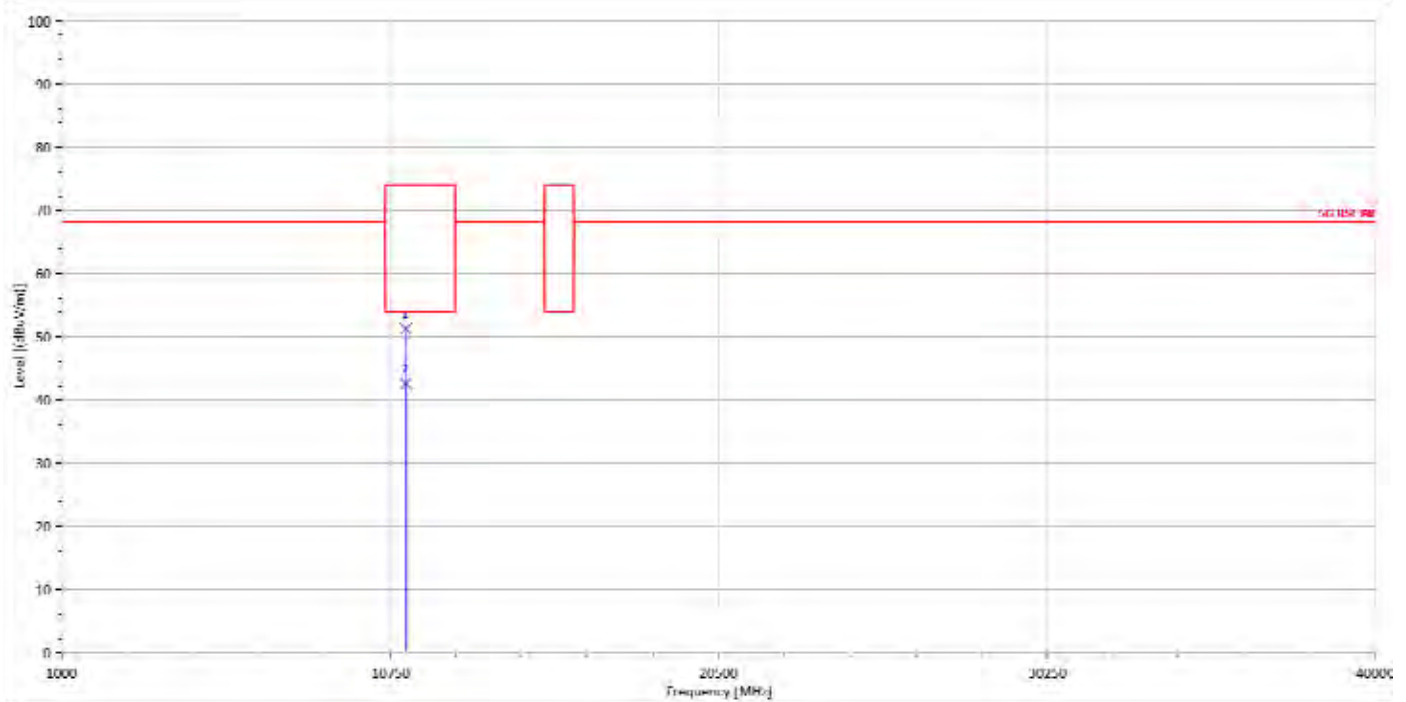
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Operation Mode : 802.11ac80 Test Date : 2017/6/17
 Fundamental Frequency : 5610 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11220.00	H	Peak	30.75	21.32	52.07	74	-21.93
11220.00	H	Average	21.06	21.32	42.38	54	-11.62

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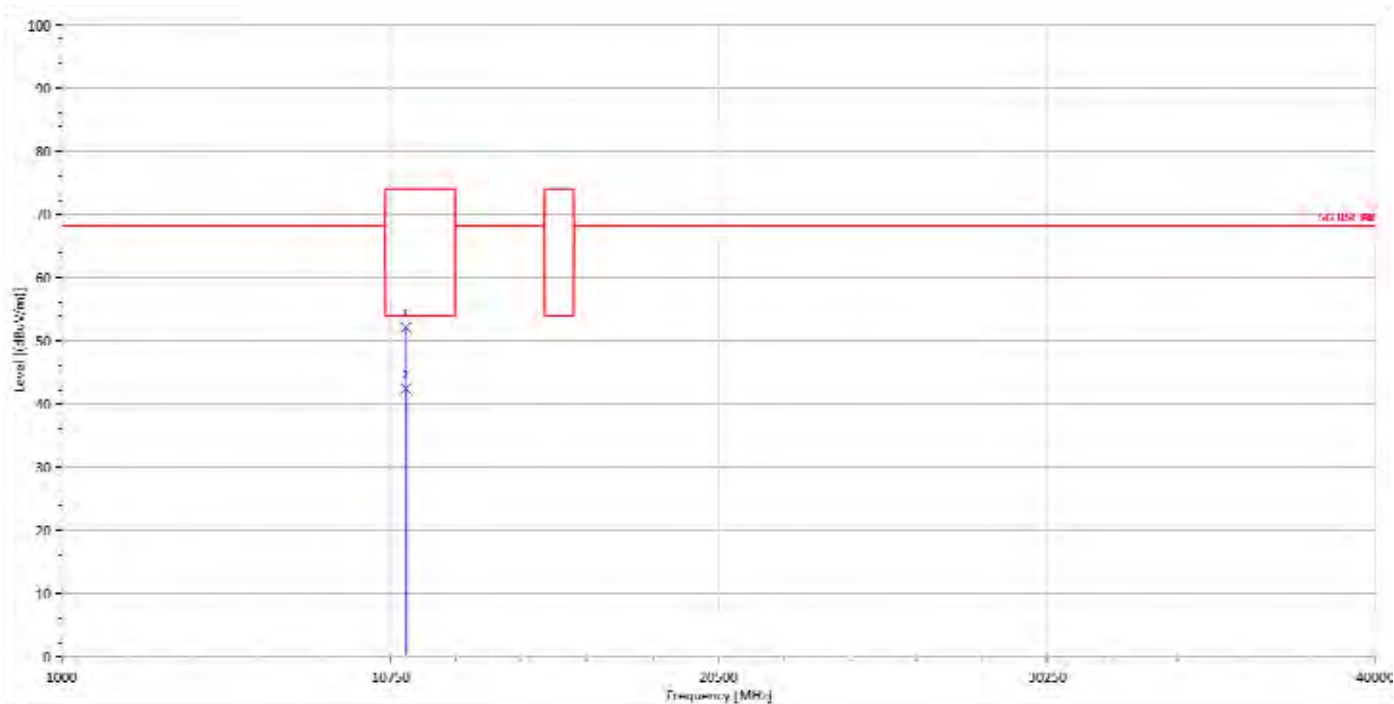
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Operation Mode :	802.11ac80	Test Date :	2017/6/17
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11220.00	H	Peak	30.84	21.32	52.16	74	-21.84
11220.00	H	Average	21.06	21.32	42.38	54	-11.62

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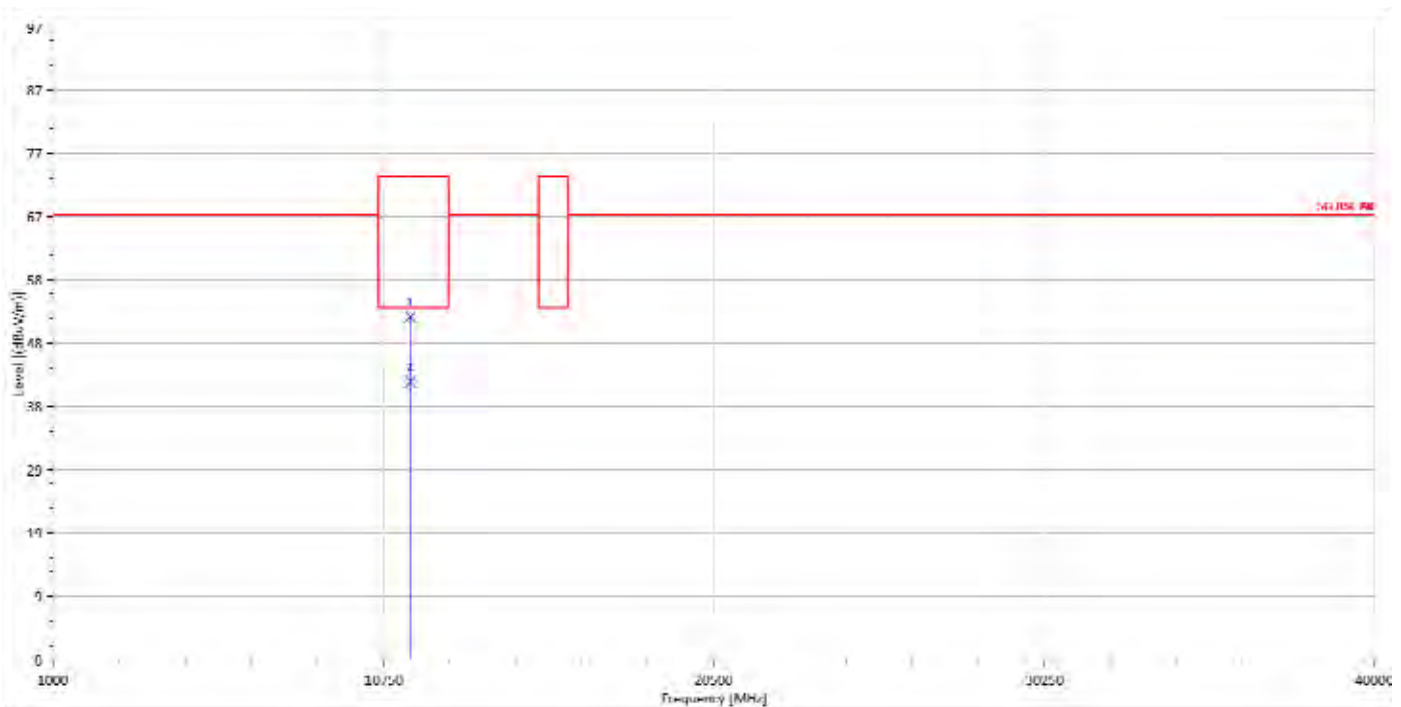
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode : 802.11ac80 Test Date : 2017/6/17
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 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
11550.00	H	Peak	31.20	21.41	52.61	74	-21.39
11550.00	H	Average	21.17	21.41	42.58	54	-11.42

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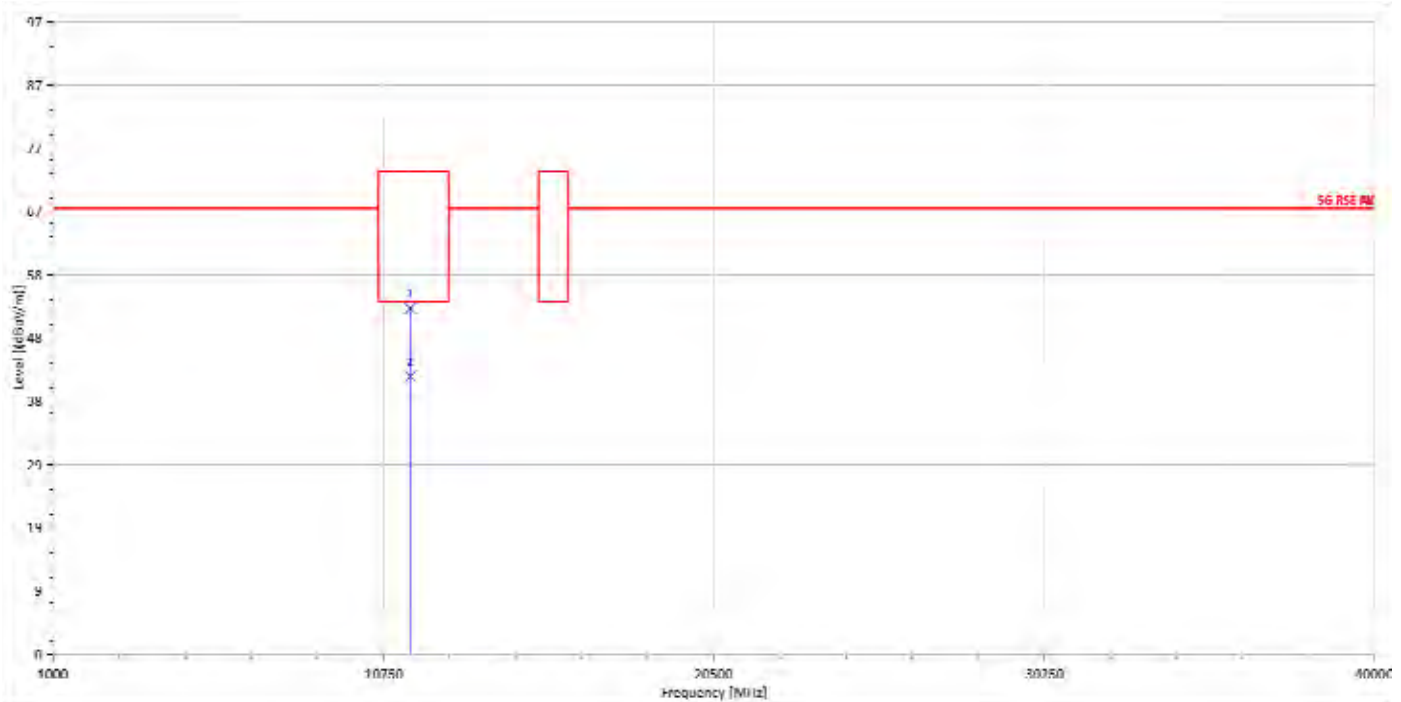
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Operation Mode : 802.11ac80 Test Date : 2017/6/17
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11550.00	H	Peak	31.55	21.41	52.97	74	-21.03
11550.00	H	Average	21.16	21.41	42.57	54	-11.43

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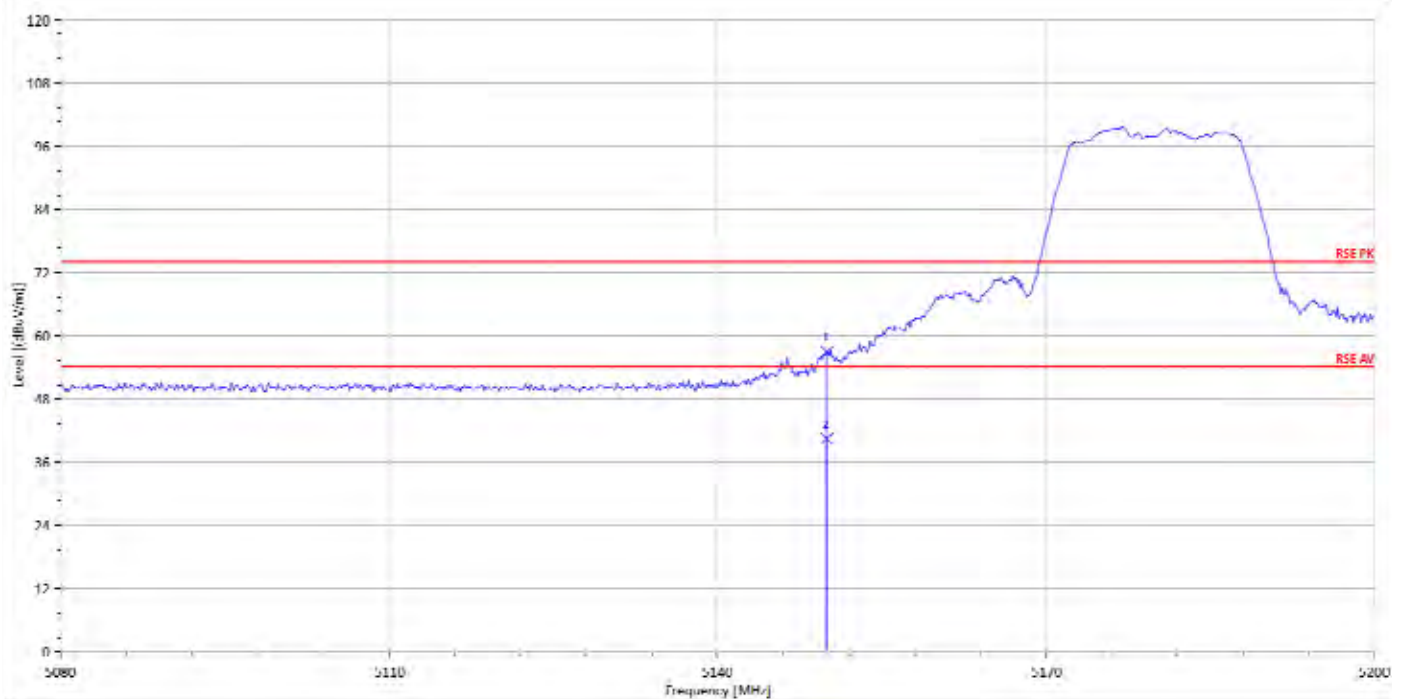
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Band edge falling to restricted band

802.11a mode

Operation Mode :	802.11a	Test Date :	2017/6/16
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5150.00	E	Peak	48.70	8.19	56.89	74	-17.11
5150.00	E	Average	32.25	8.19	40.44	54	-13.56

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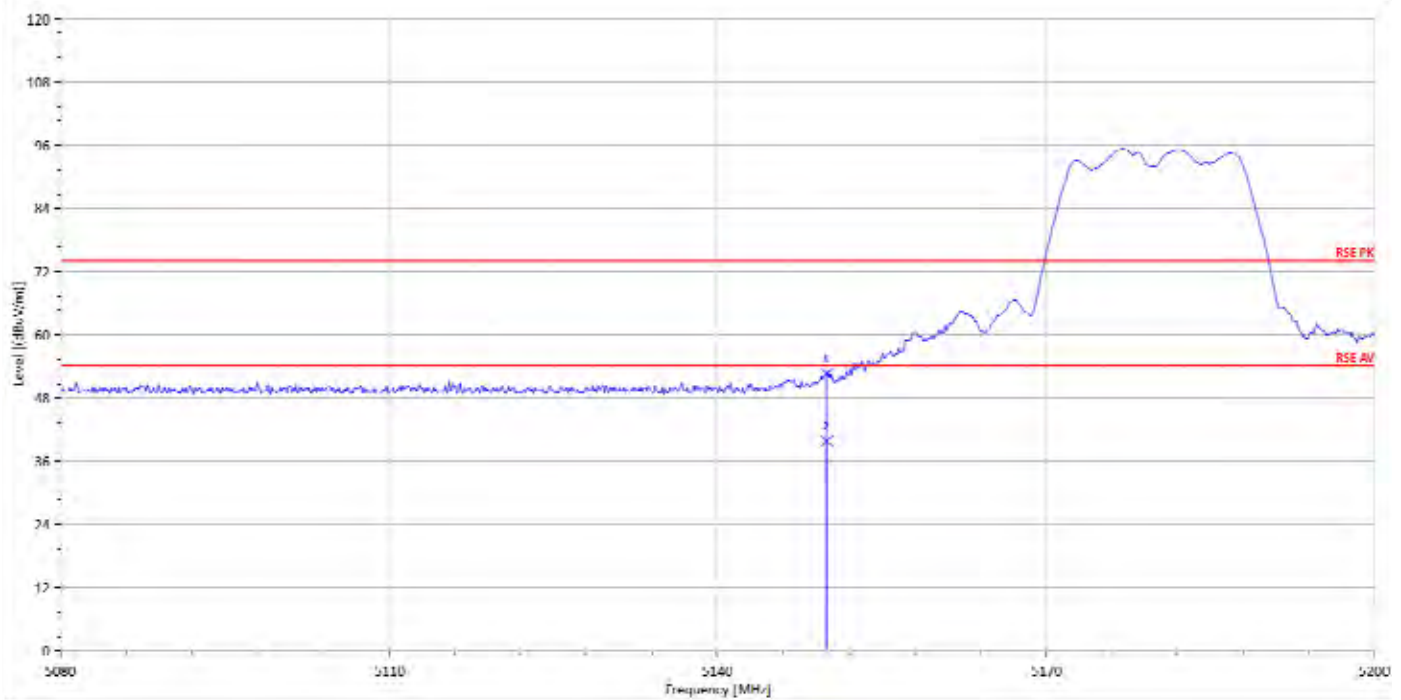
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Operation Mode : 802.11a Test Date : 2017/6/16
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5150.00	E	Peak	44.32	8.19	52.51	74	-21.49
5150.00	E	Average	31.61	8.19	39.80	54	-14.20

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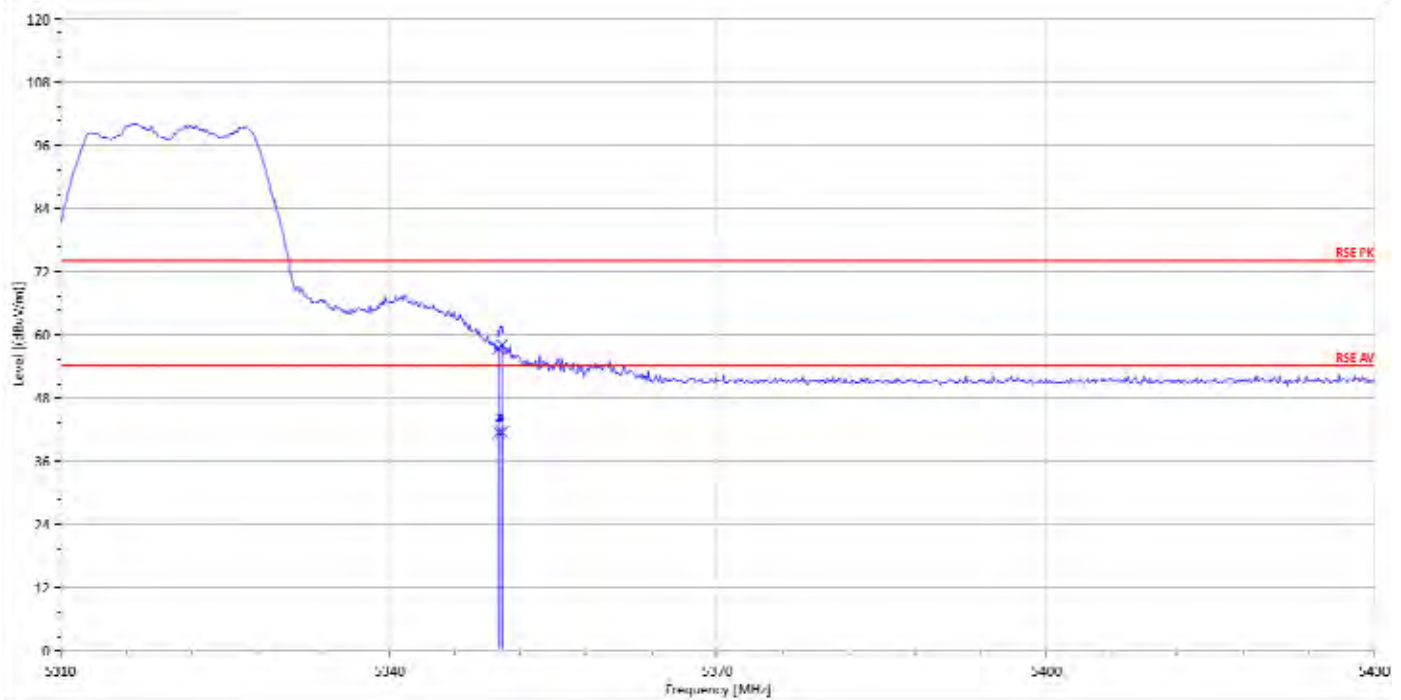
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Operation Mode :	802.11a	Test Date :	2017/6/16
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	48.39	8.96	57.35	74	-16.65
5350.00	E	Average	32.48	8.96	41.44	54	-12.56
5350.32	S	Peak	49.11	8.97	58.08	74	-15.92
5350.32	S	Average	32.51	8.97	41.48	54	-12.52

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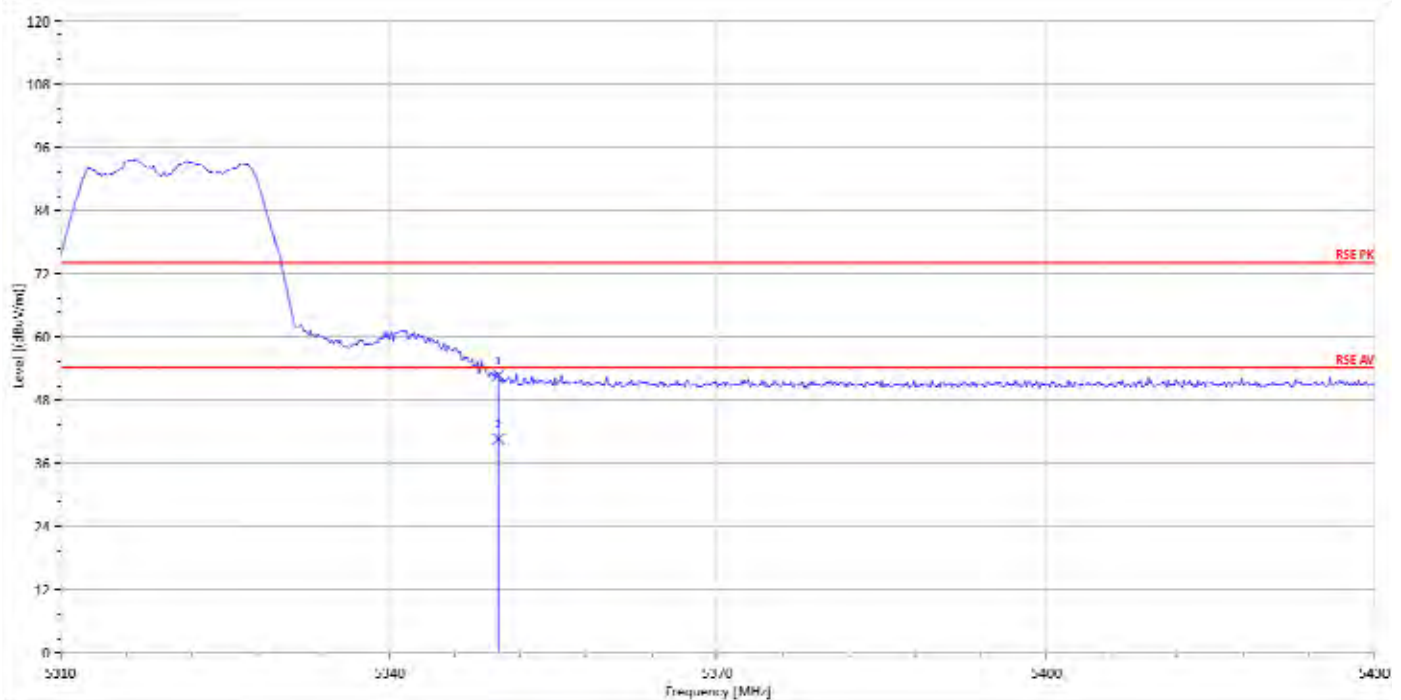
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Operation Mode :	802.11a	Test Date :	2017/6/16
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	43.67	8.96	52.64	74	-21.36
5350.00	E	Average	31.61	8.96	40.57	54	-13.43

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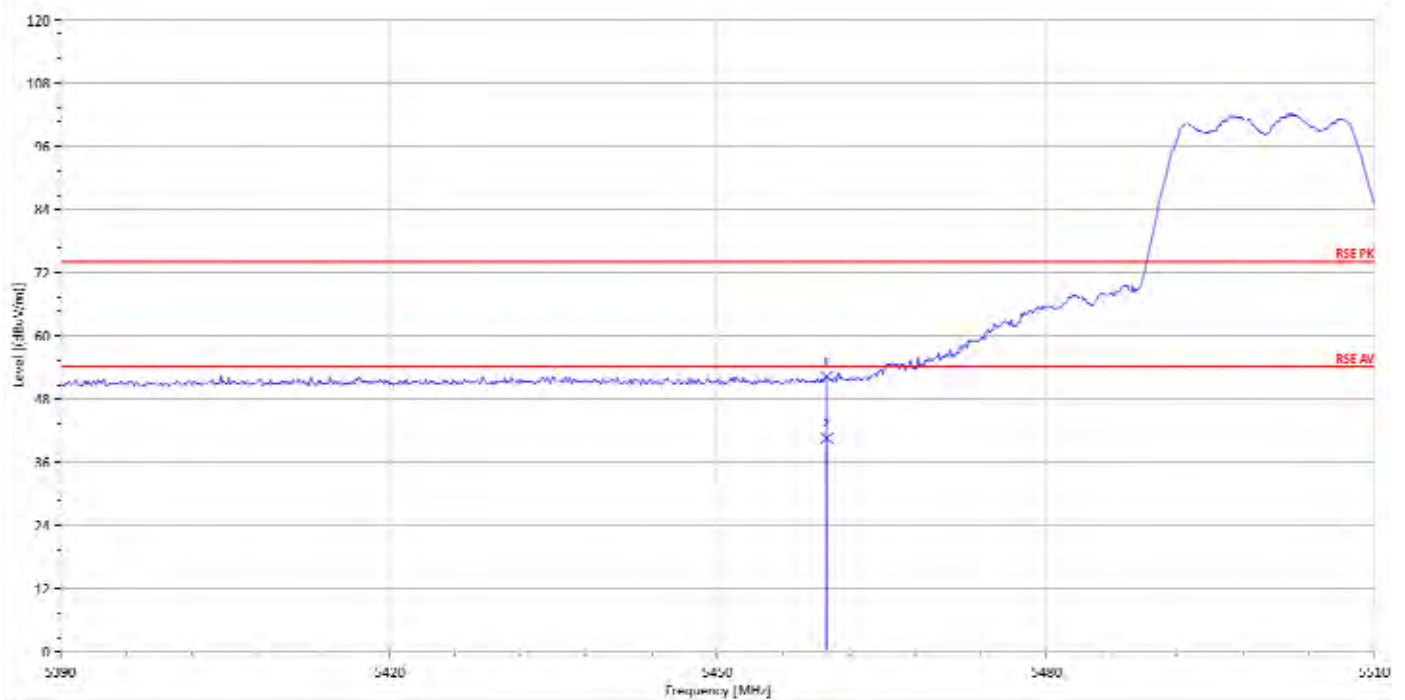
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Operation Mode :	802.11a	Test Date :	2017/6/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	E	Peak	43.30	8.88	52.18	74	-21.82
5460.00	E	Average	31.66	8.88	40.54	54	-13.46

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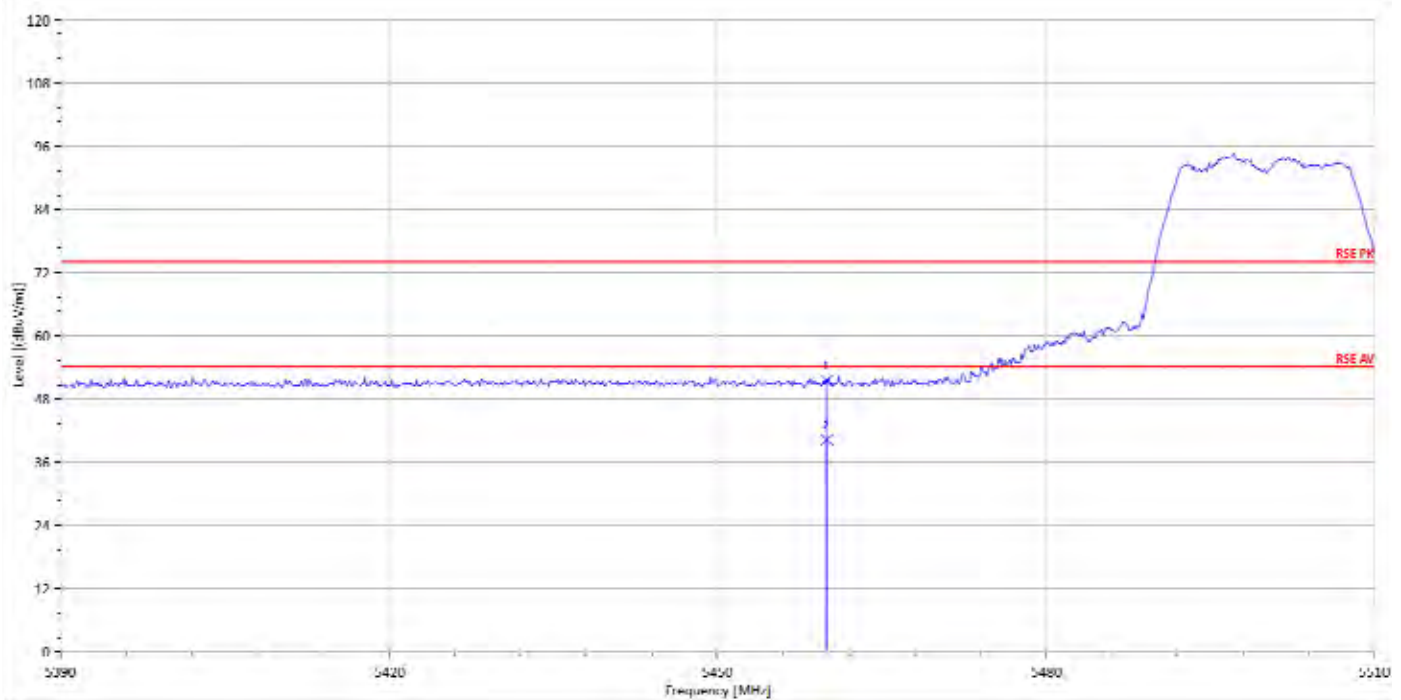
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Operation Mode :	802.11a	Test Date :	2017/6/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	E	Peak	42.56	8.88	51.44	74	-22.56
5460.00	E	Average	31.33	8.88	40.21	54	-13.79

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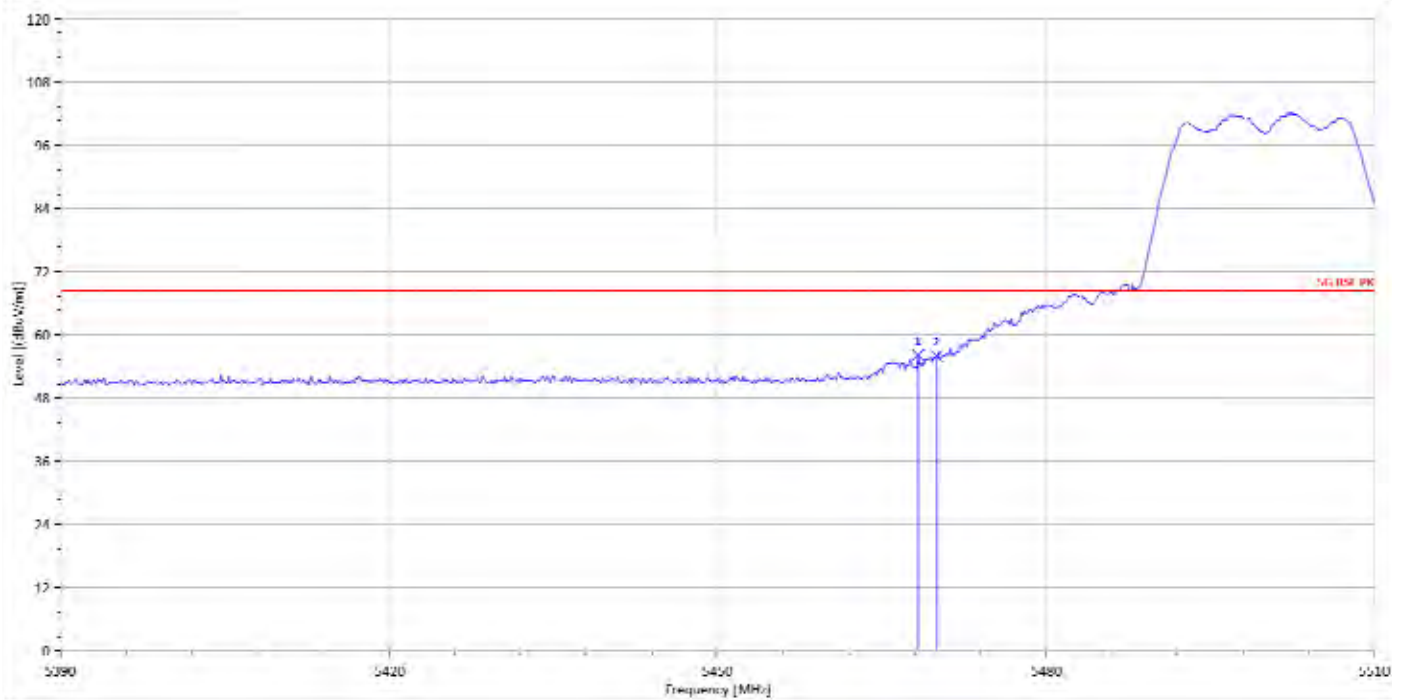
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Operation Mode :	802.11a	Test Date :	2017/6/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5468.36	S	Peak	47.31	8.80	56.11	68.3	-12.19
5470.00	E	Peak	47.13	8.79	55.92	68.3	-12.38

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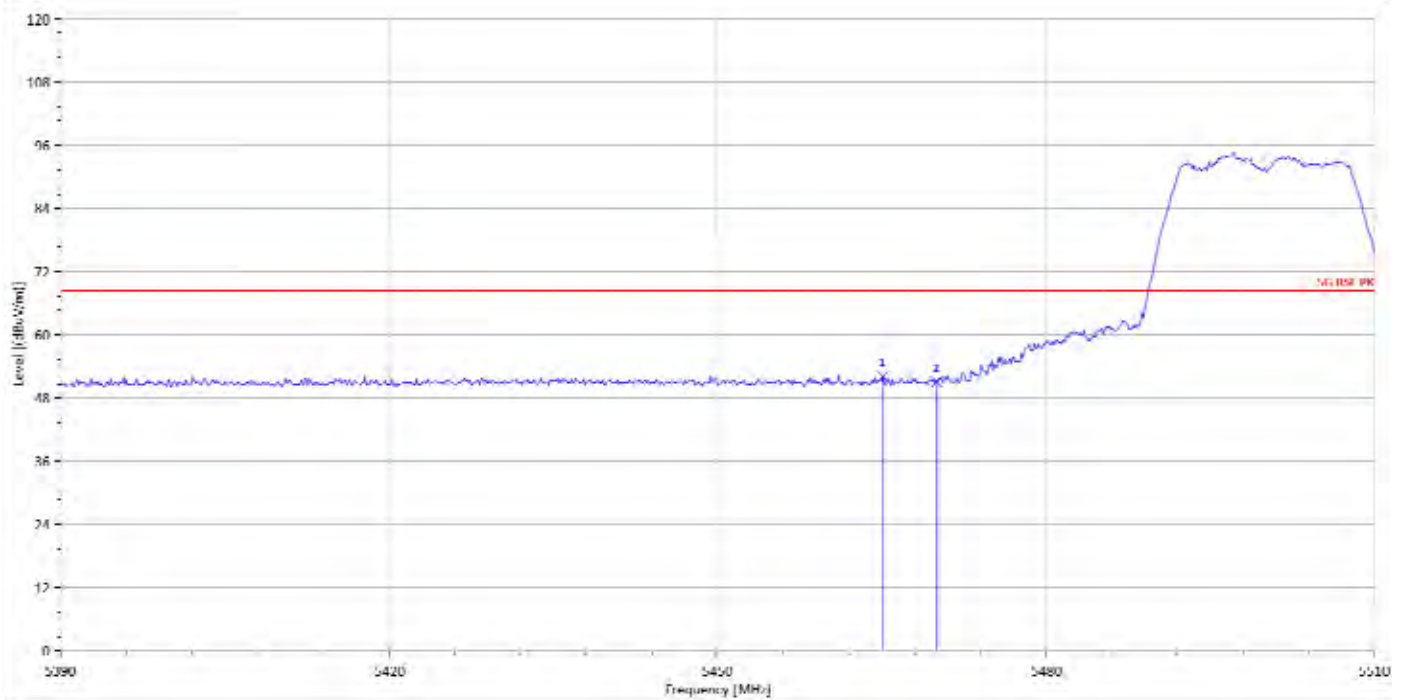
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Operation Mode :	802.11a	Test Date :	2017/6/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5465.12	S	Peak	43.11	8.83	51.95	68.3	-16.35
5470.00	E	Peak	42.16	8.79	50.95	68.3	-17.35

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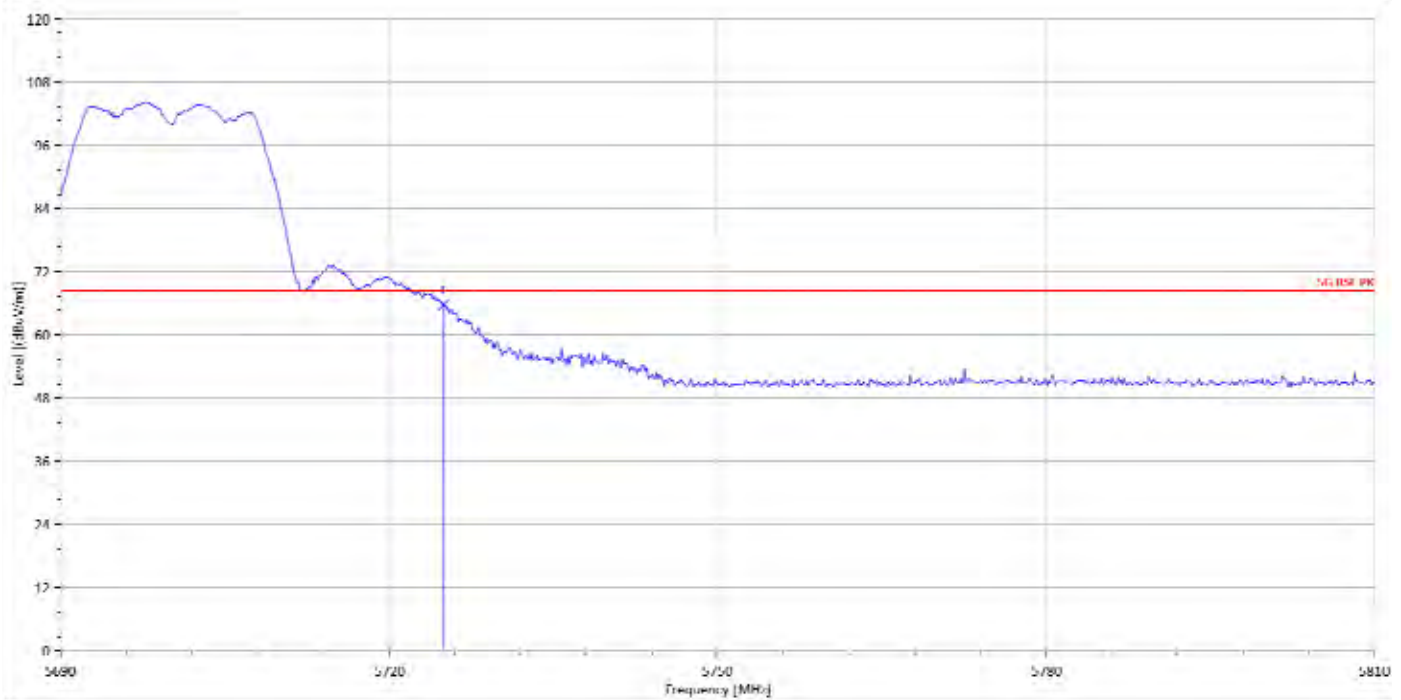
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Operation Mode :	802.11a	Test Date :	2017/6/16
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	56.39	9.30	65.69	68.3	-2.61

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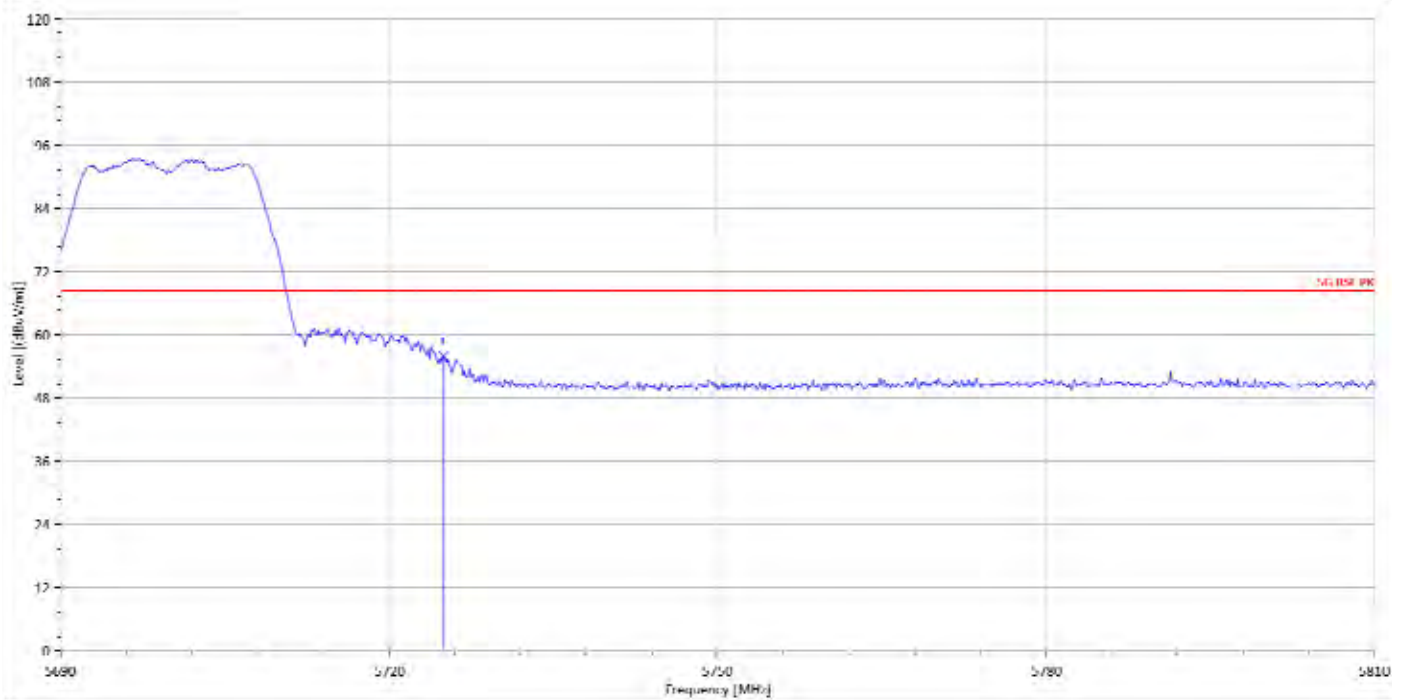
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Operation Mode :	802.11a	Test Date :	2017/6/16
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	46.58	9.30	55.88	68.3	-12.42

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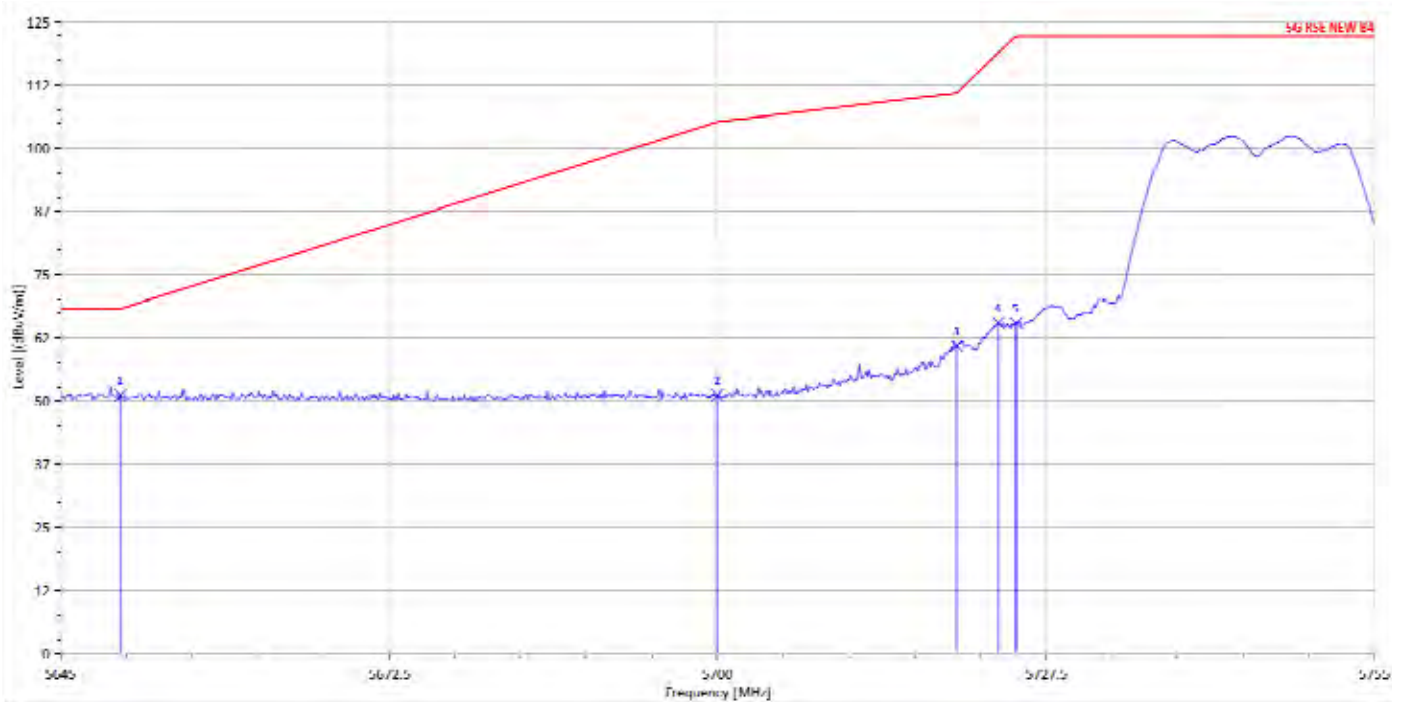
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Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	S	Peak	41.78	9.33	51.11	68.23	-17.12
5700.00	S	Peak	41.68	9.44	51.12	105.23	-54.11
5720.00	S	Peak	51.63	9.28	60.91	110.83	-49.92
5723.54	S	Peak	56.21	9.29	65.50	118.9013	-53.40
5725.00	E	Peak	56.16	9.30	65.46	122.23	-56.77

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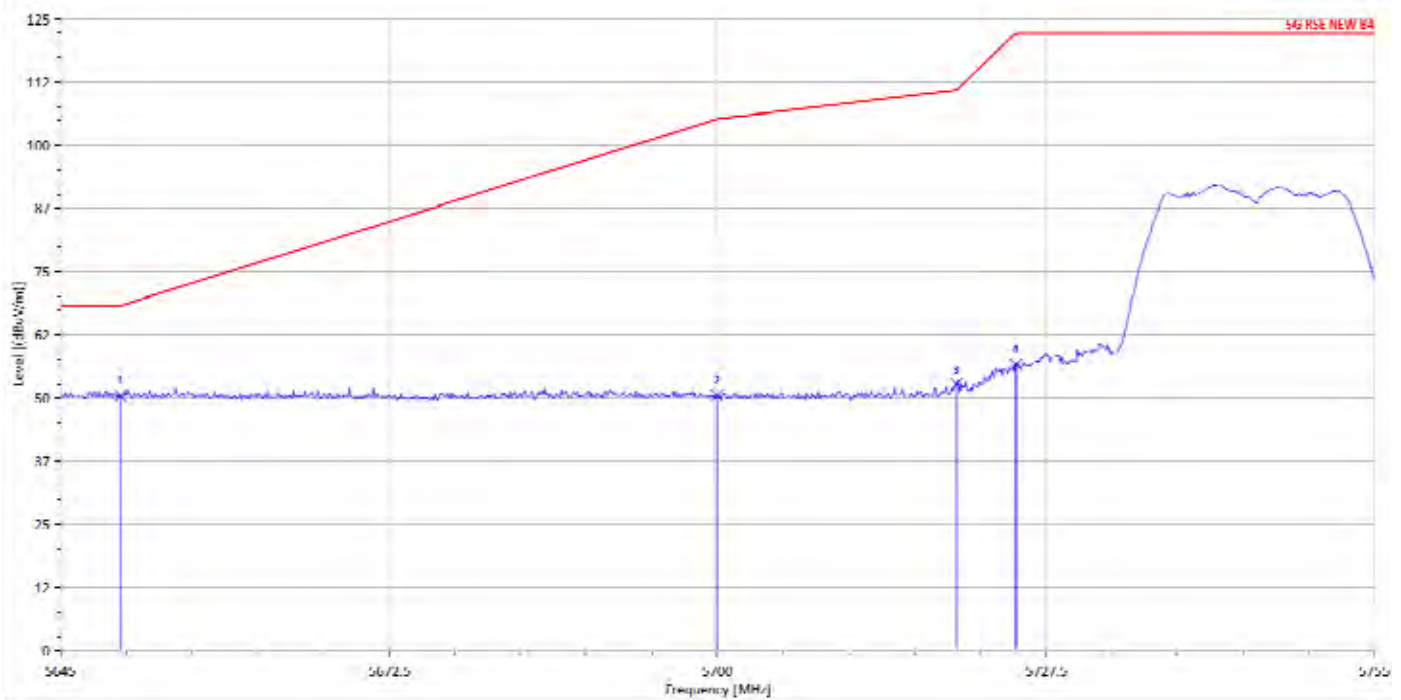
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 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	41.13	9.33	50.46	68.23	-17.77
5700.00	S	Peak	41.07	9.44	50.51	105.23	-54.72
5720.00	S	Peak	43.40	9.28	52.68	110.83	-58.15
5725.00	E	Peak	47.28	9.30	56.58	122.23	-65.65

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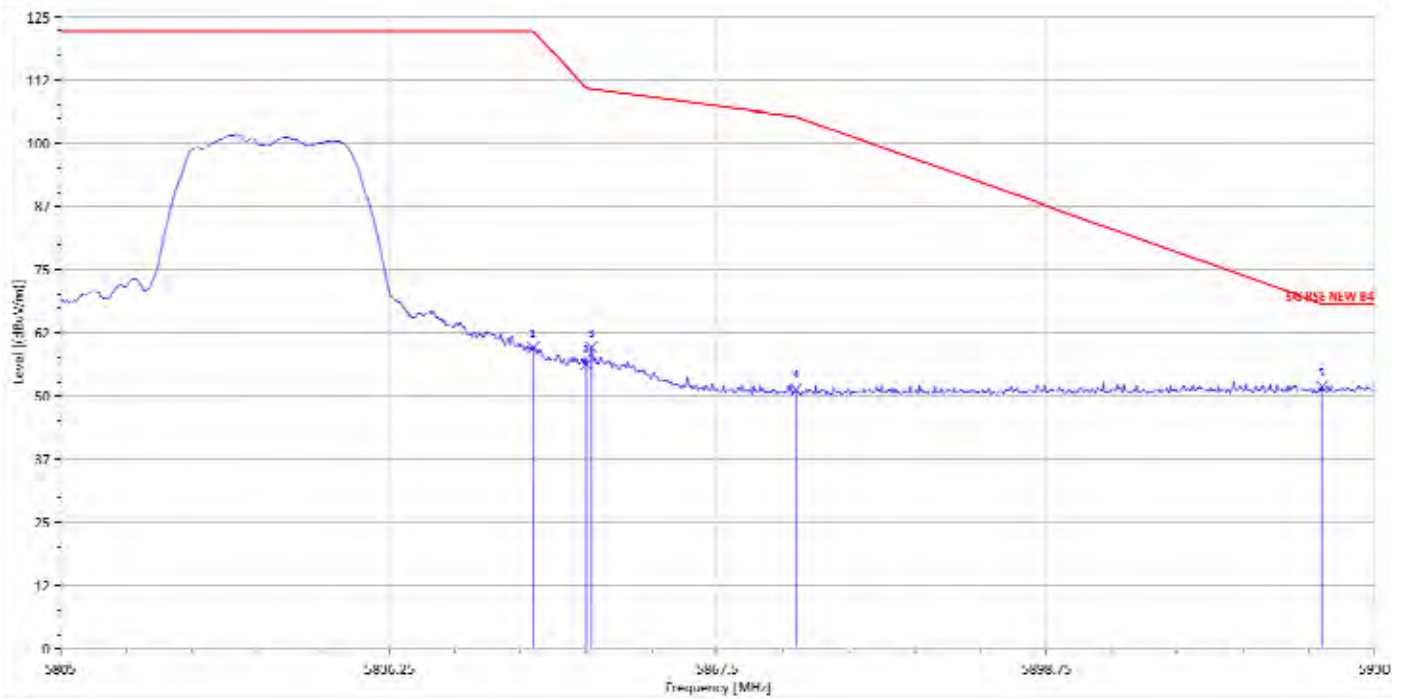
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Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	50.04	9.49	59.52	122.23	-62.71
5855.00	S	Peak	46.61	9.58	56.19	110.83	-54.64
5855.50	S	Peak	49.98	9.59	59.57	110.69	-51.12
5875.00	S	Peak	41.60	9.63	51.23	105.23	-54.00
5925.00	S	Peak	41.74	10.01	51.76	68.23	-16.47

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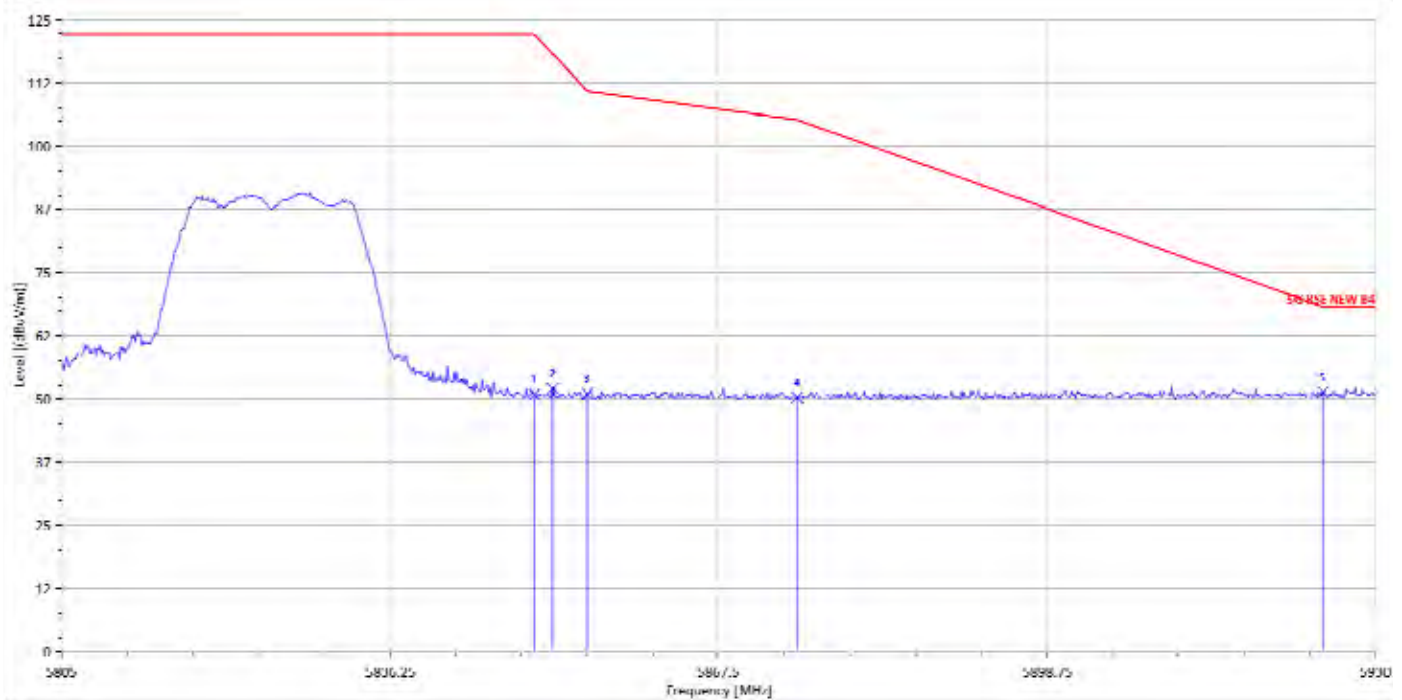
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Operation Mode :	802.11a	Test Date :	2017/6/16
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	41.41	9.49	50.90	122.23	-71.33
5851.75	S	Peak	42.47	9.52	51.99	118.24	-66.25
5855.00	S	Peak	41.45	9.58	51.03	110.83	-59.80
5875.00	S	Peak	40.71	9.63	50.35	105.23	-54.88
5925.00	S	Peak	41.35	10.01	51.37	68.23	-16.86

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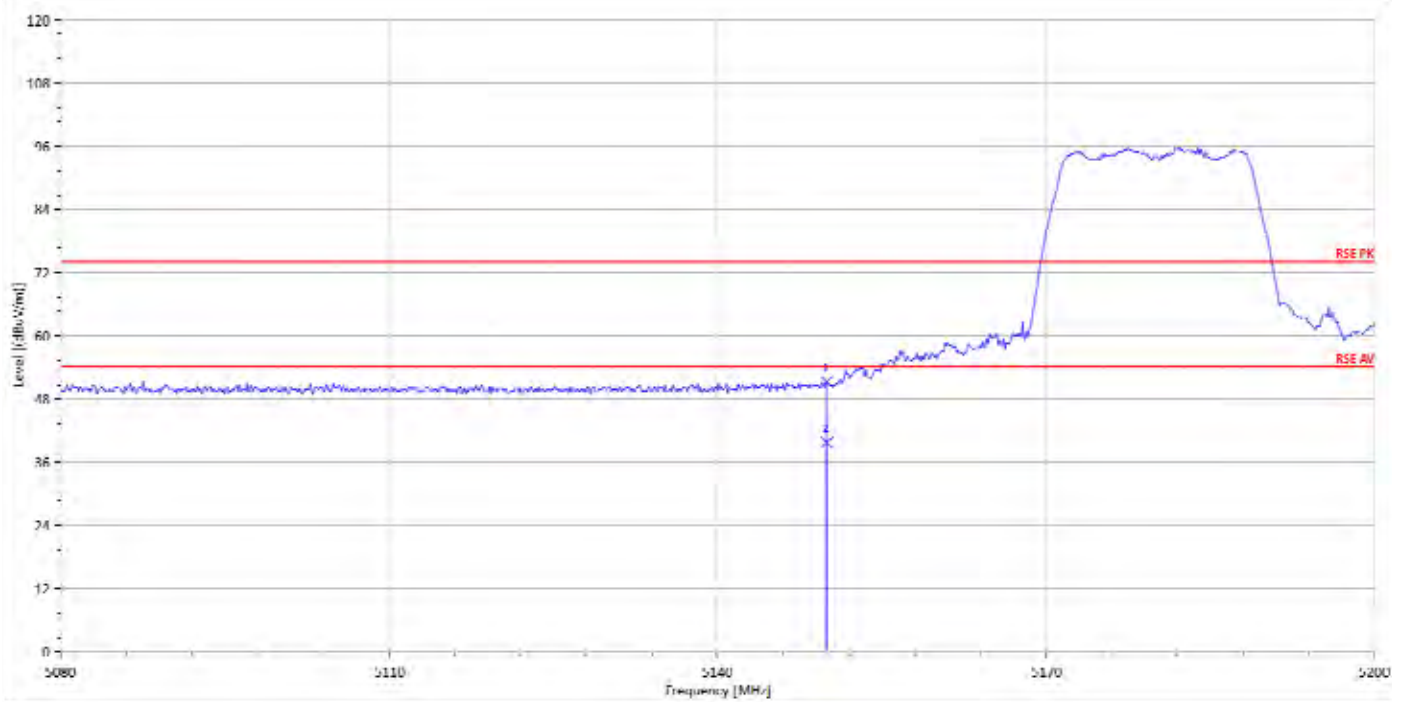
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802.11n HT20 mode

Operation Mode :	802.11n20	Test Date :	2017/6/16
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	E	Peak	42.95	8.19	51.14	74	-22.86
5150.00	E	Average	31.51	8.19	39.70	54	-14.30

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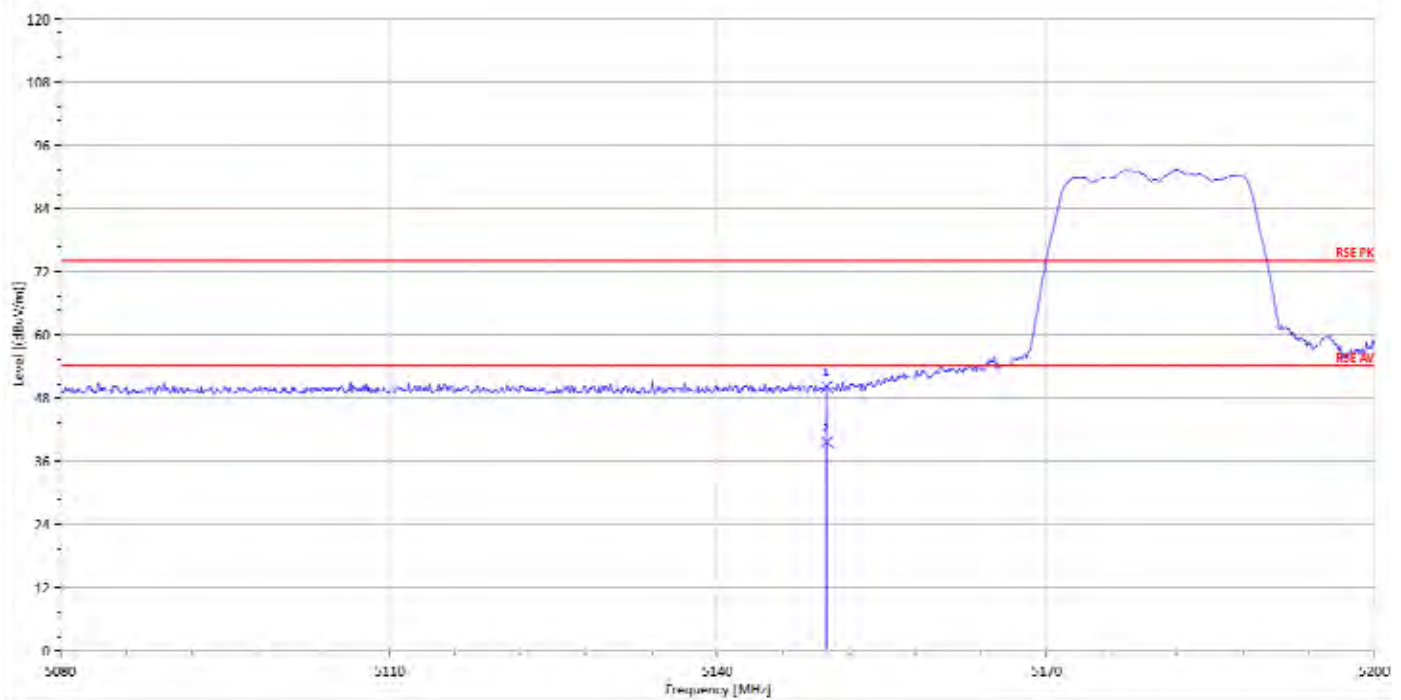
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Operation Mode :	802.11n20	Test Date :	2017/6/16
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5150.00	E	Peak	41.91	8.19	50.10	74	-23.90
5150.00	E	Average	31.40	8.19	39.59	54	-14.41

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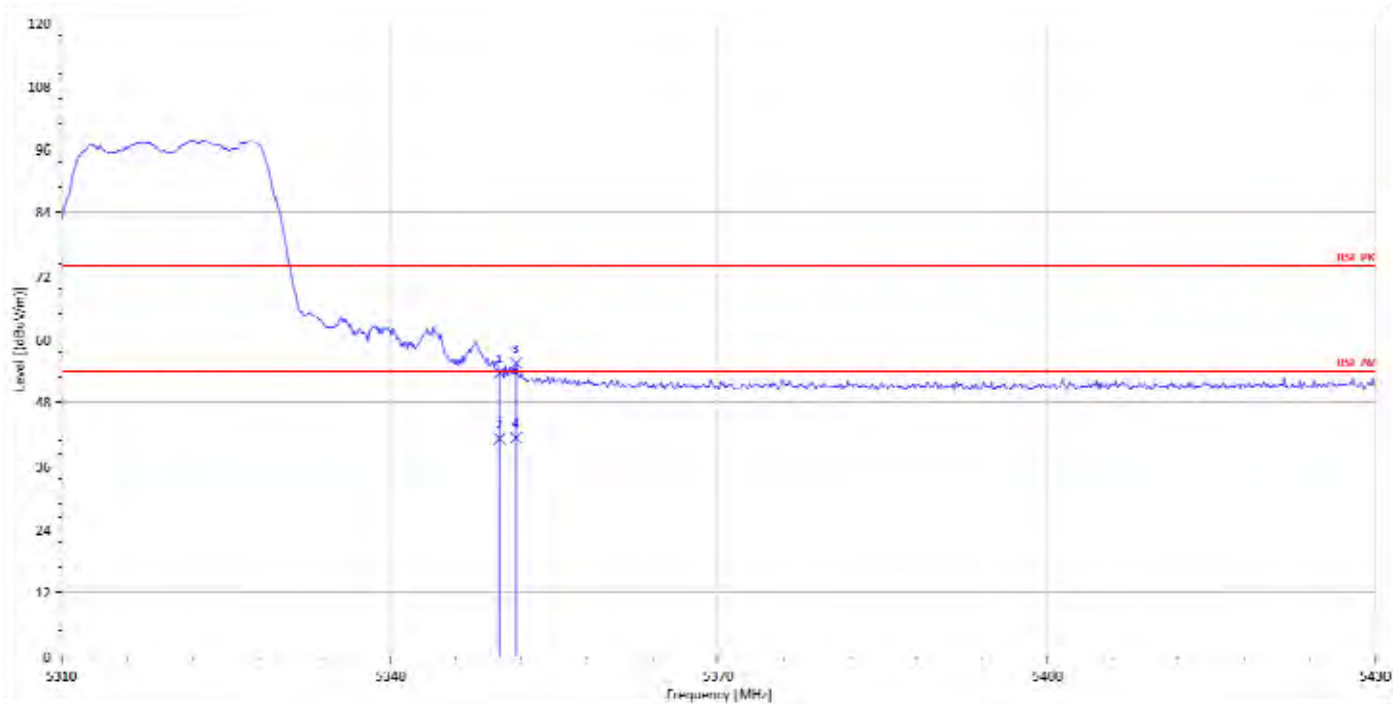
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Operation Mode :	802.11n20	Test Date :	2017/6/16
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	44.67	8.96	53.64	74	-20.36
5350.00	E	Average	32.25	8.96	41.21	54	-12.79
5351.52	S	Peak	46.49	8.99	55.48	74	-18.52
5351.52	S	Average	32.38	8.99	41.37	54	-12.63

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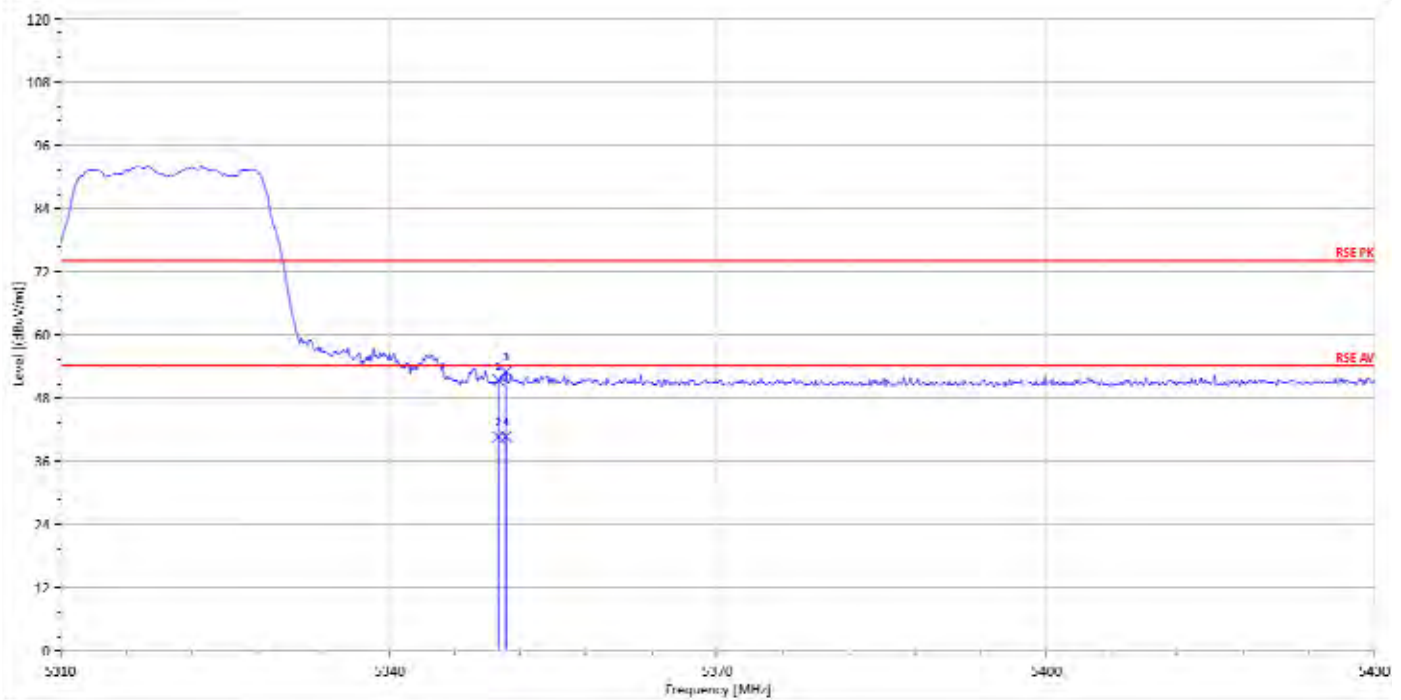
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Operation Mode : 802.11n20 Test Date : 2017/6/16
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	42.33	8.96	51.30	74	-22.70
5350.00	E	Average	31.64	8.96	40.60	54	-13.40
5350.68	S	Peak	43.95	8.98	52.92	74	-21.08
5350.68	S	Average	31.67	8.98	40.65	54	-13.35

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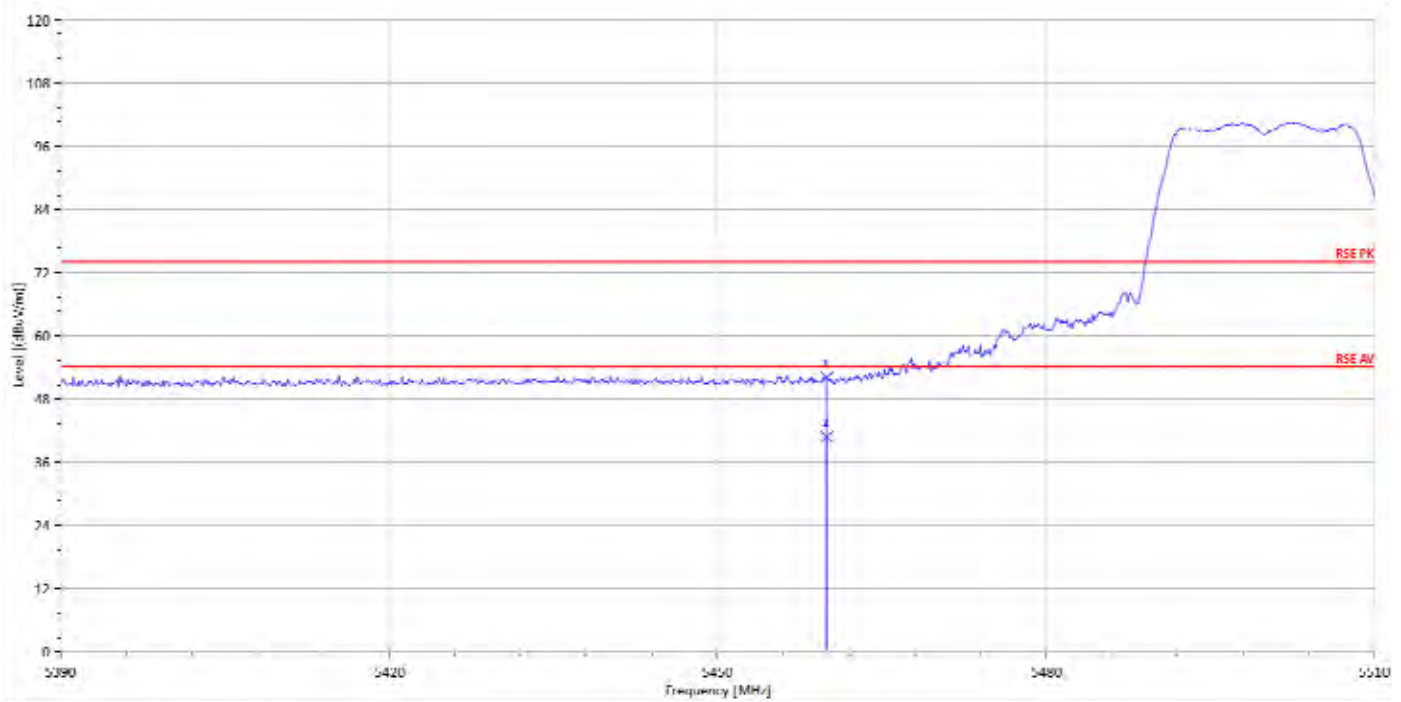
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Operation Mode :	802.11n20	Test Date :	2017/6/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	E	Peak	43.10	8.88	51.99	74	-22.01
5460.00	E	Average	31.91	8.88	40.79	54	-13.21

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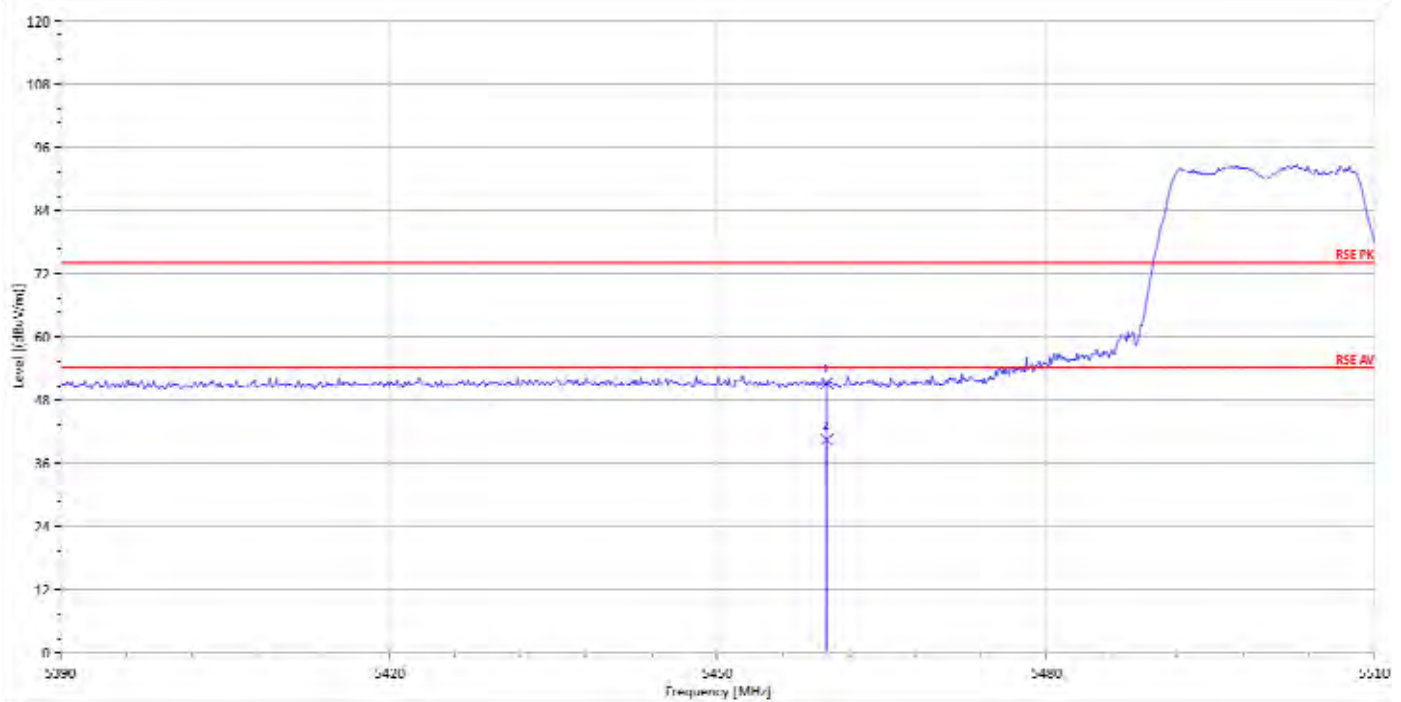
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Operation Mode :	802.11n20	Test Date :	2017/6/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5460.00	E	Peak	42.23	8.88	51.11	74	-22.89
5460.00	E	Average	31.56	8.88	40.44	54	-13.56

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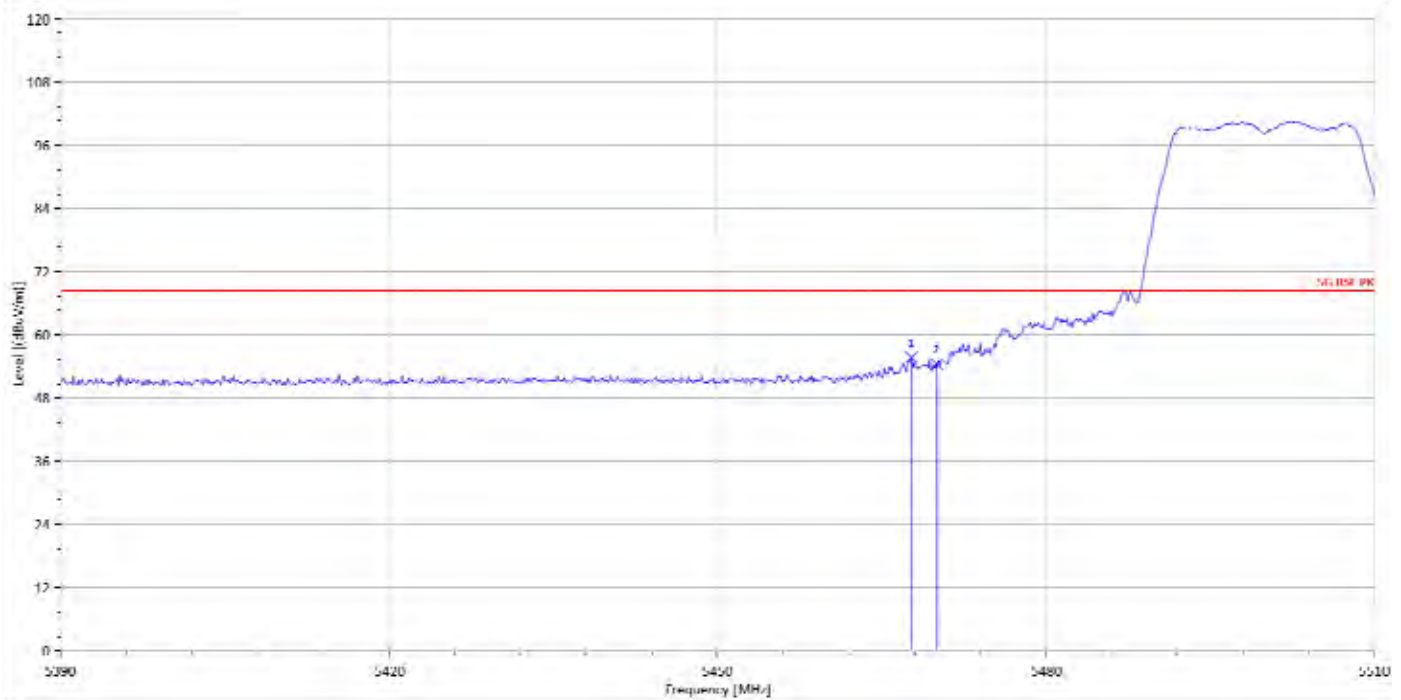
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Operation Mode :	802.11n20	Test Date :	2017/6/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5467.76	S	Peak	46.88	8.81	55.69	68.3	-12.61
5470.00	E	Peak	45.53	8.79	54.32	68.3	-13.98

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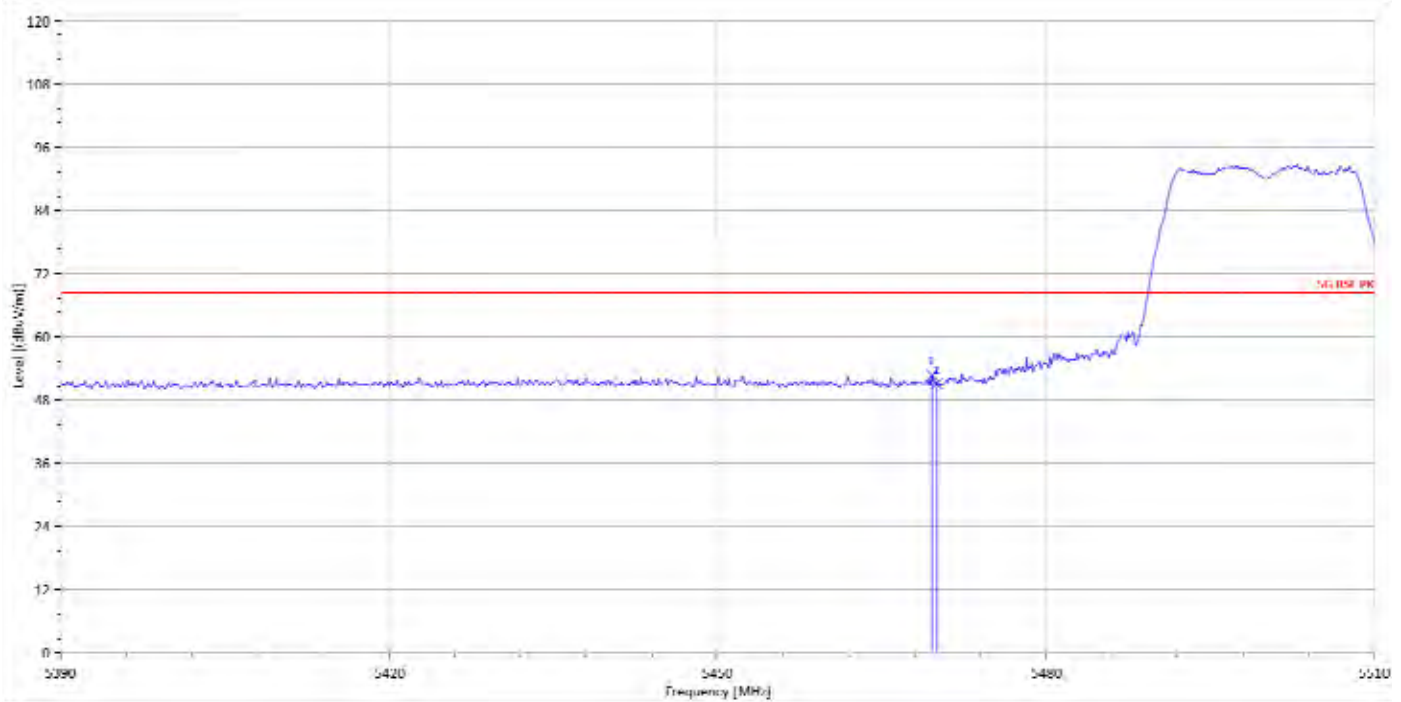
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Operation Mode :	802.11n20	Test Date :	2017/6/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5469.56	S	Peak	43.81	8.79	52.60	68.3	-15.70
5470.00	E	Peak	42.20	8.79	50.99	68.3	-17.31

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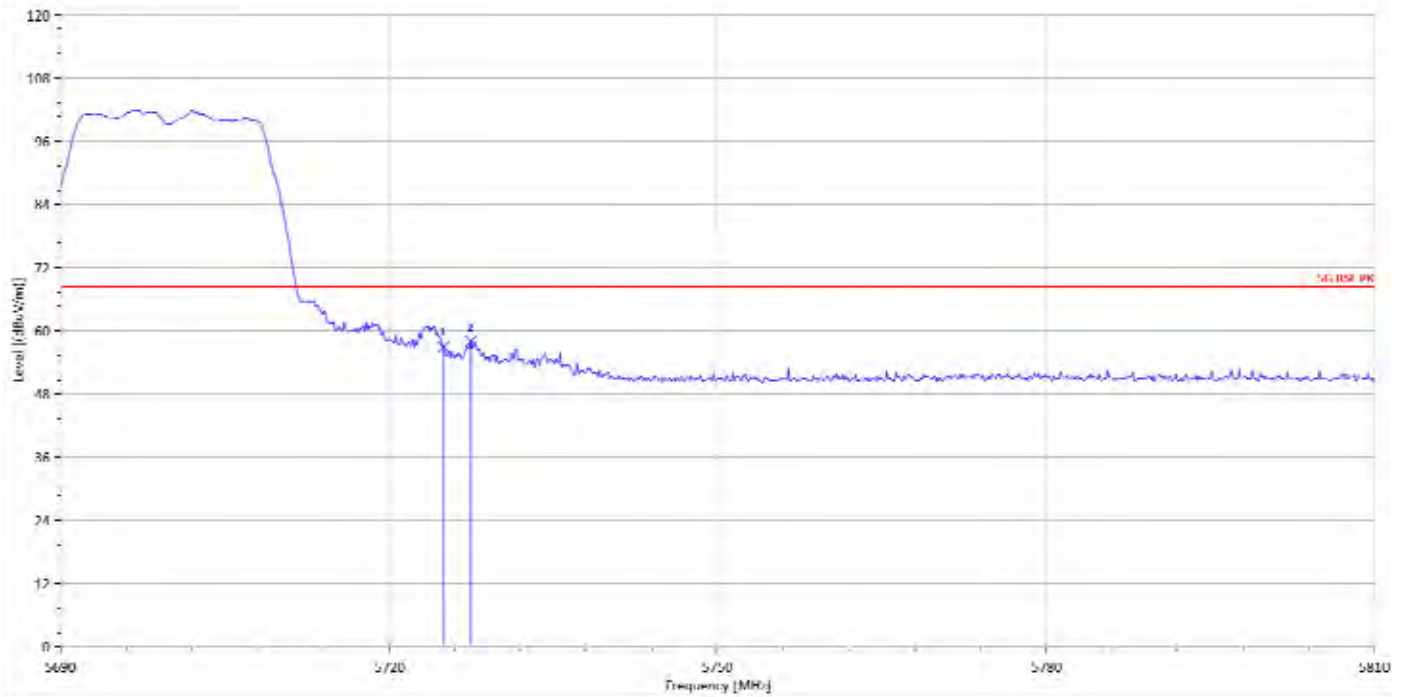
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Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5725.00	E	Peak	47.58	9.30	56.88	68.3	-11.42
5727.44	S	Peak	48.67	9.30	57.97	68.3	-10.33

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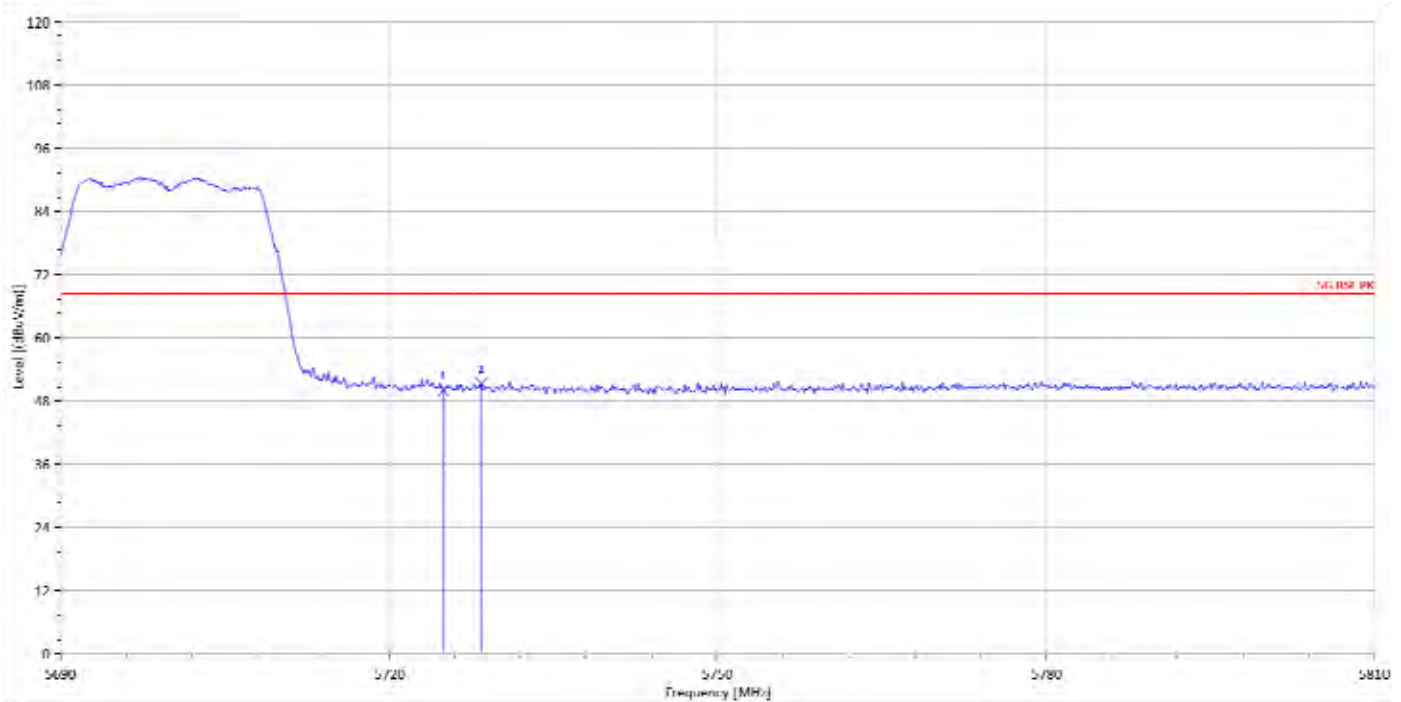
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Operation Mode :	802.11n20	Test Date :	2017/6/16
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5725.00	E	Peak	40.70	9.30	50.00	68.3	-18.30
5728.40	S	Peak	41.91	9.30	51.21	68.3	-17.09

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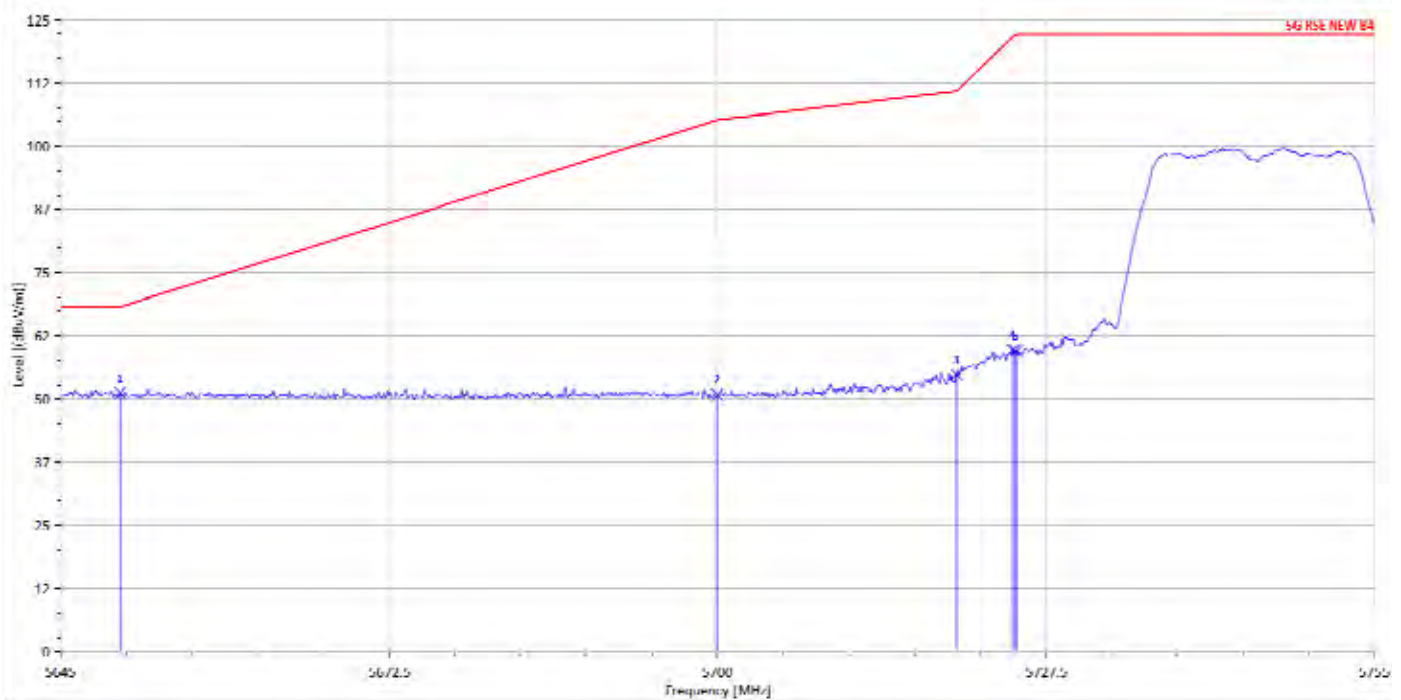
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Operation Mode :	802.11n20	Test Date :	2017/6/16
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	41.86	9.33	51.19	68.23	-17.04
5700.00	S	Peak	41.40	9.44	50.83	105.23	-54.40
5720.00	S	Peak	45.46	9.28	54.74	110.83	-56.09
5724.75	S	Peak	50.34	9.30	59.64	121.66	-62.02
5725.00	E	Peak	50.22	9.30	59.52	122.23	-62.71

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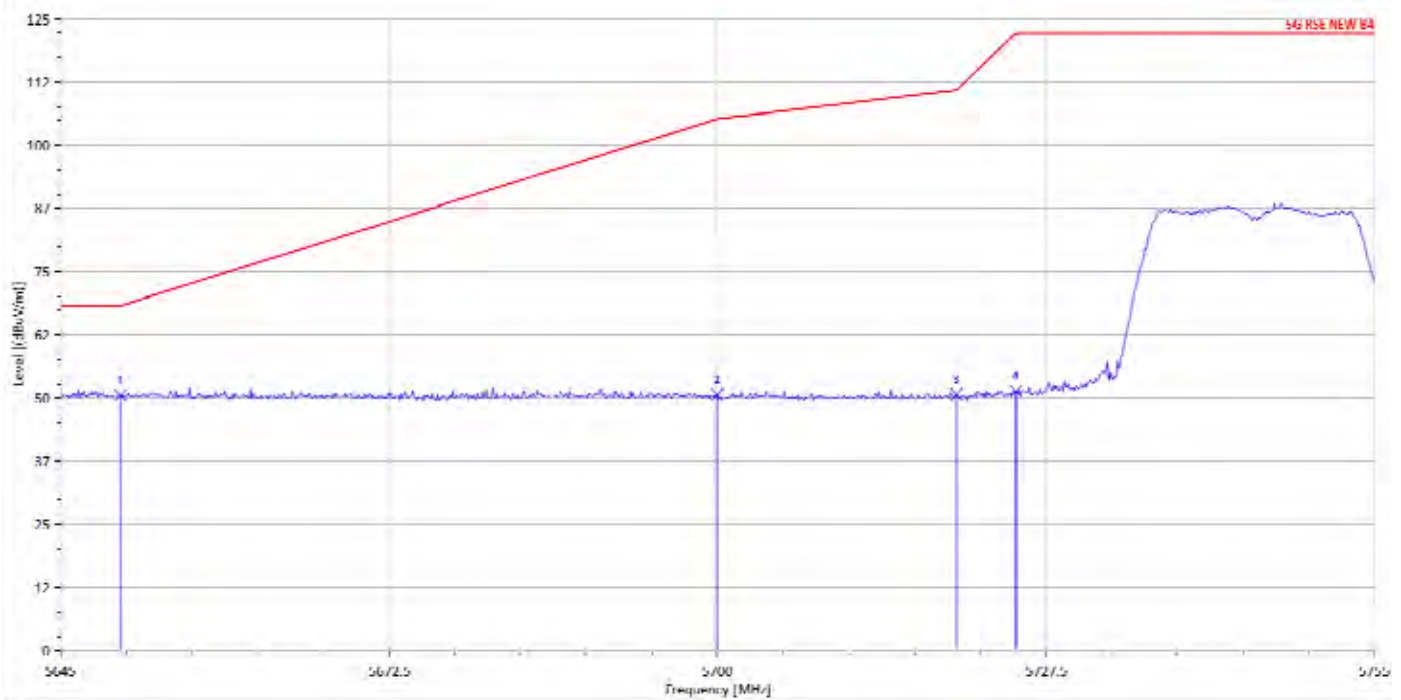
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Operation Mode :	802.11n20	Test Date :	2017/6/16
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	41.23	9.33	50.57	68.23	-17.66
5700.00	S	Peak	41.23	9.44	50.67	105.23	-54.56
5720.00	S	Peak	41.48	9.28	50.76	110.83	-60.07
5725.00	E	Peak	42.04	9.30	51.34	122.23	-70.89

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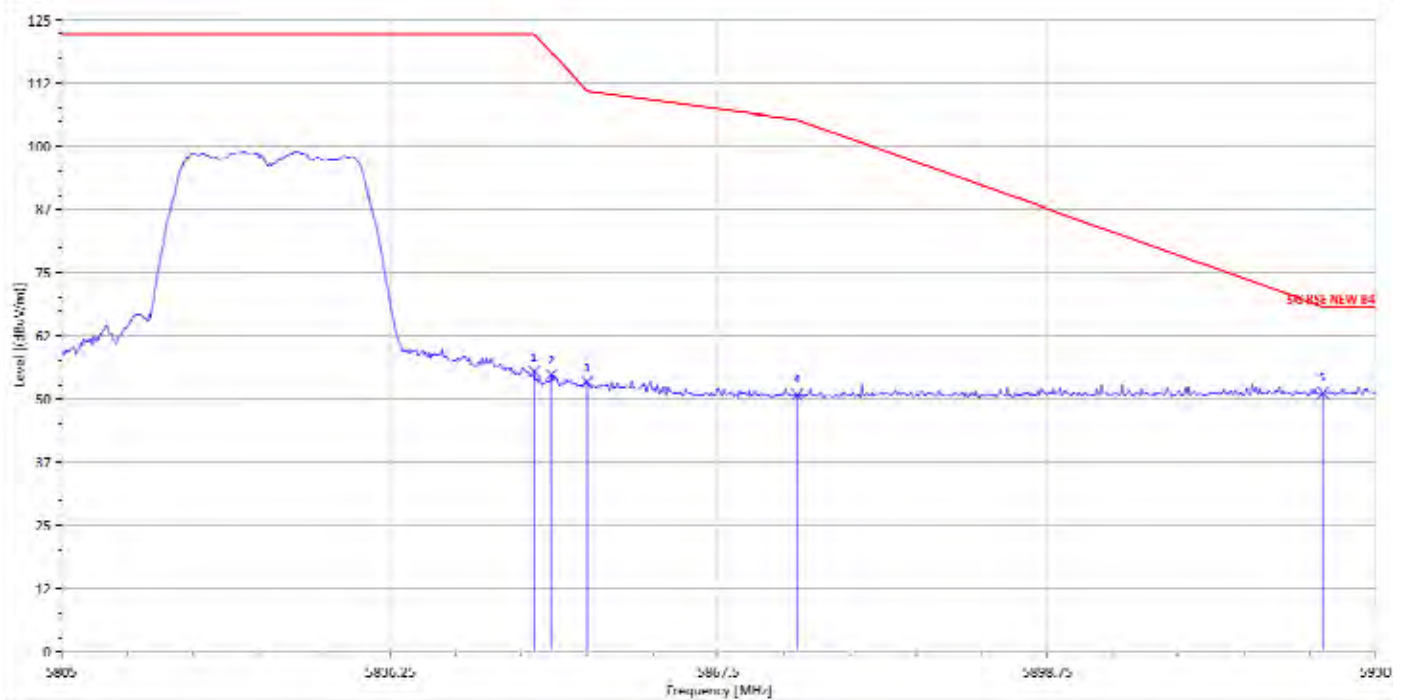
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Operation Mode :	802.11n20	Test Date :	2017/6/16
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	45.91	9.49	55.40	122.23	-66.83
5851.63	S	Peak	45.25	9.52	54.77	118.525	-63.76
5855.00	S	Peak	43.73	9.58	53.31	110.83	-57.52
5875.00	S	Peak	41.22	9.63	50.86	105.23	-54.37
5925.00	S	Peak	41.20	10.01	51.22	68.23	-17.01

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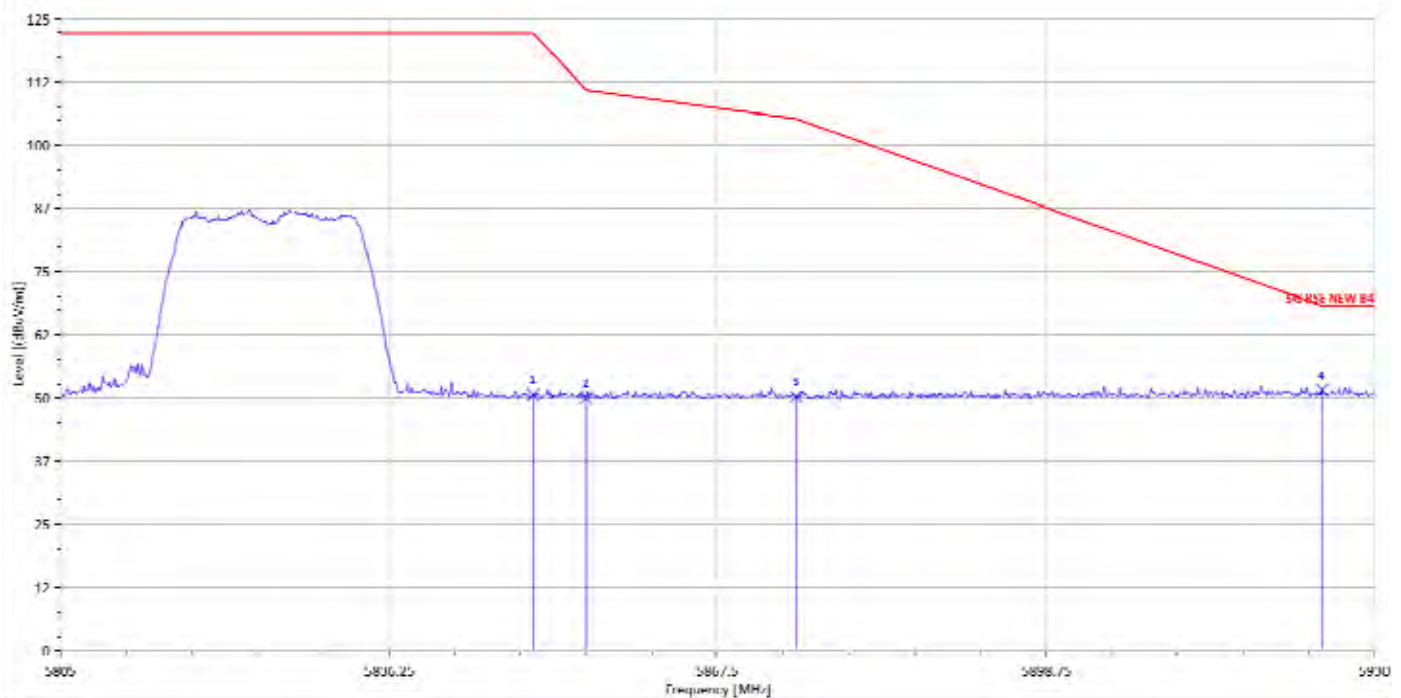
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Operation Mode :	802.11n20	Test Date :	2017/6/16
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	41.16	9.49	50.65	122.23	-71.58
5855.00	S	Peak	40.47	9.58	50.05	110.83	-60.78
5875.00	S	Peak	40.68	9.63	50.32	105.23	-54.91
5925.00	S	Peak	41.53	10.01	51.55	68.23	-16.68

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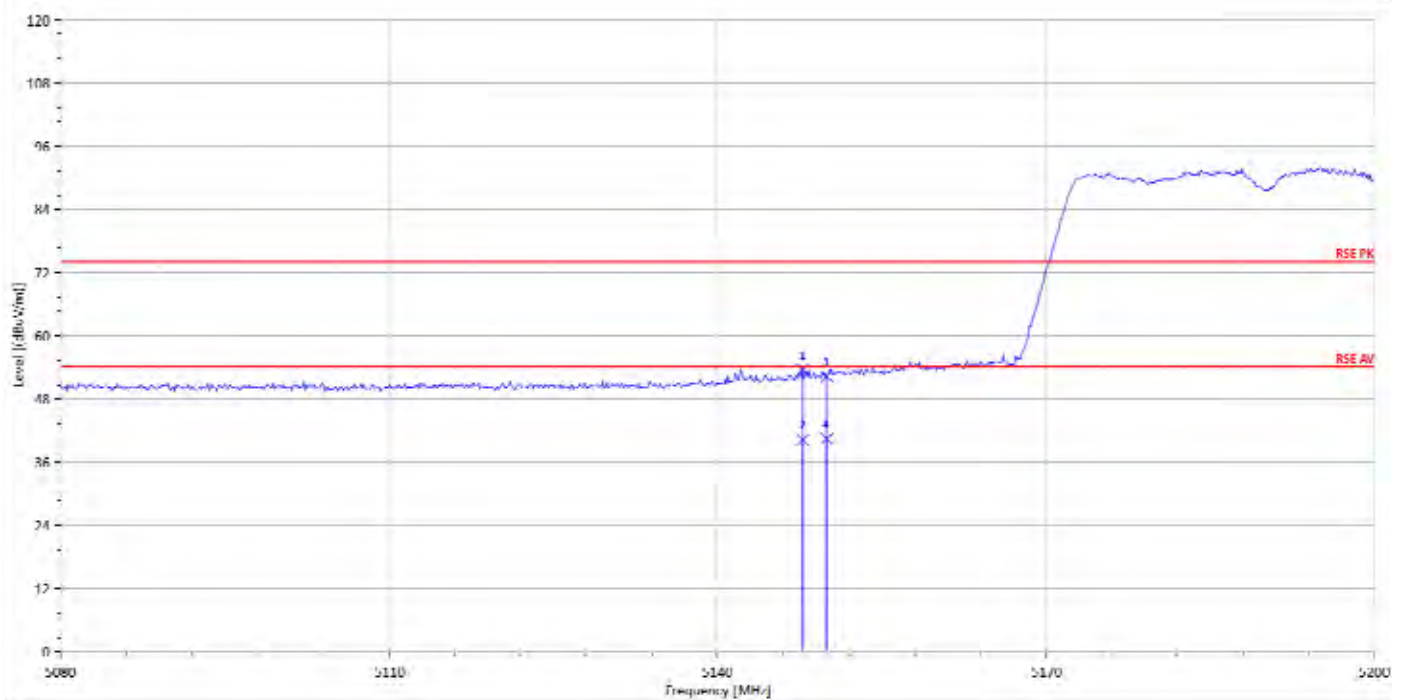
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802.11n HT40 mode

Operation Mode :	802.11n40	Test Date :	2017/6/16
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
5147.80	S	Peak	45.33	8.18	53.51	74	-20.49
5147.80	S	Average	32.03	8.18	40.21	54	-13.79
5150.00	E	Peak	43.99	8.19	52.18	74	-21.82
5150.00	E	Average	32.24	8.19	40.43	54	-13.57

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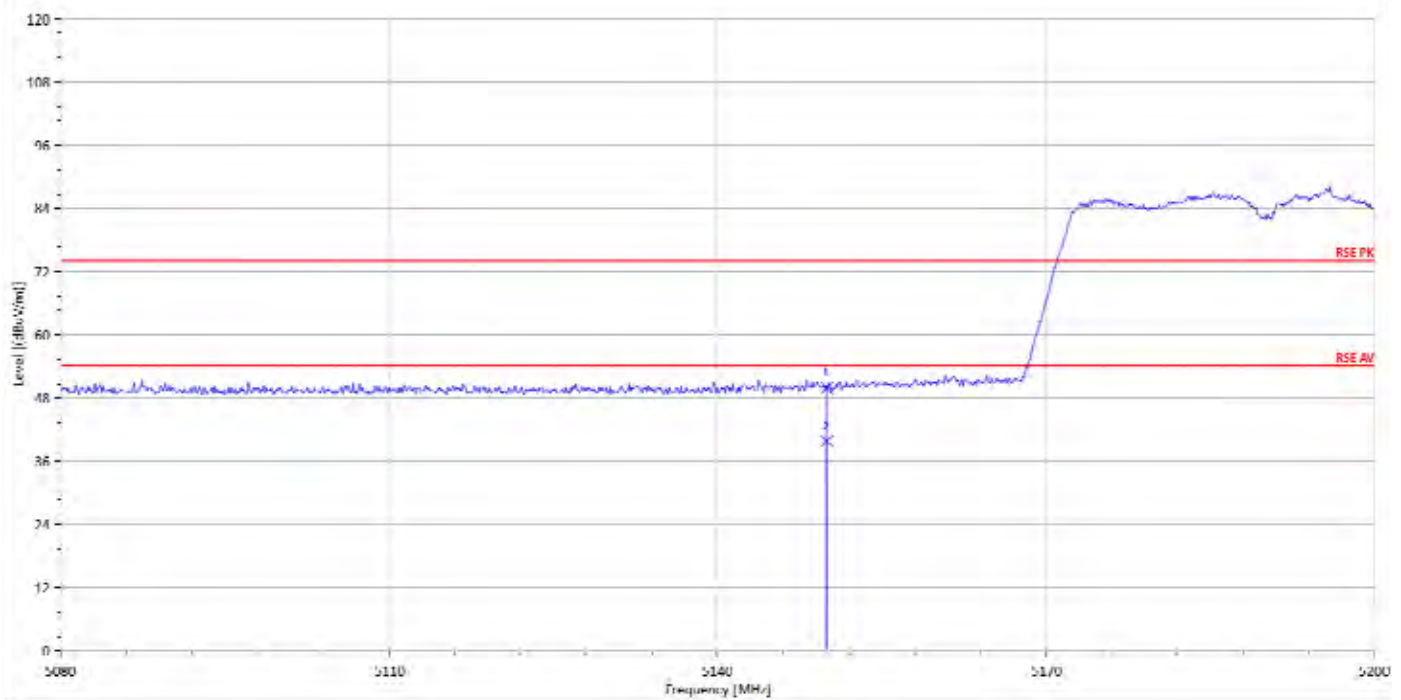
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Operation Mode : 802.11n40 Test Date : 2017/6/16
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5150.00	E	Peak	41.70	8.19	49.90	74	-24.10
5150.00	E	Average	31.61	8.19	39.80	54	-14.20

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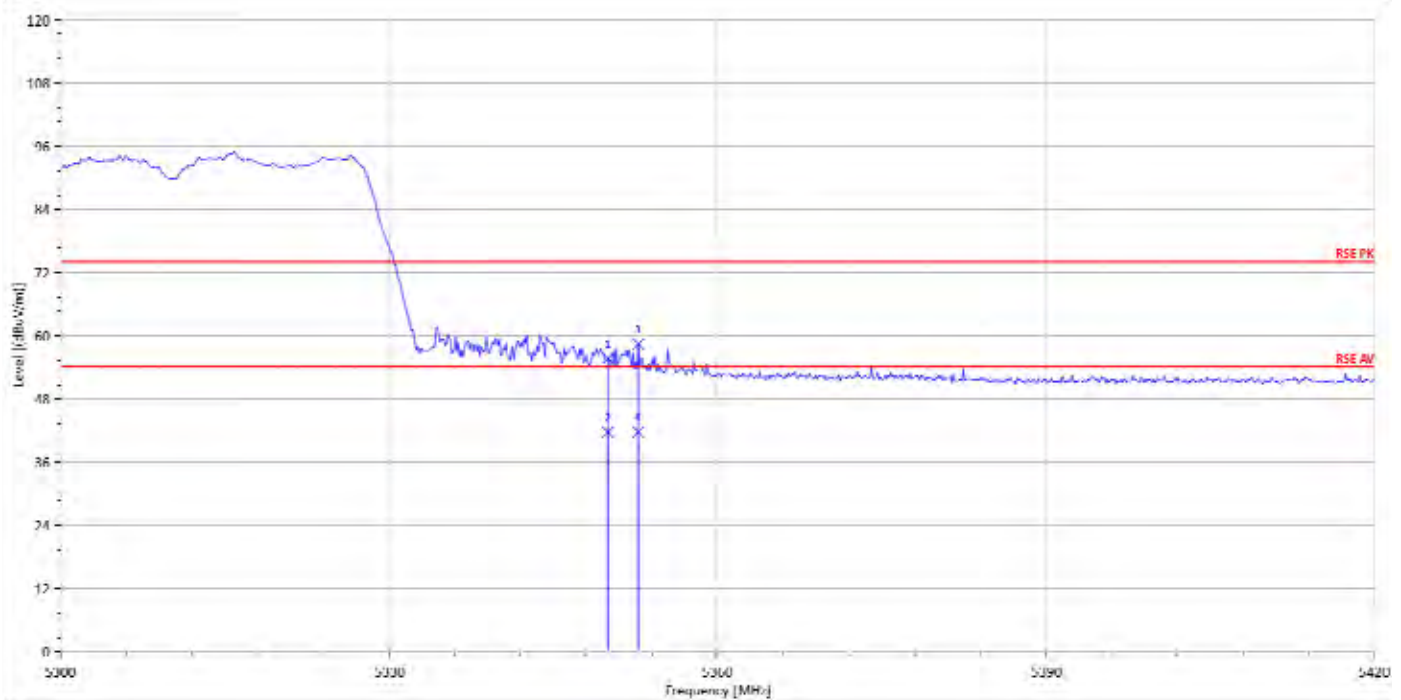
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Operation Mode :	802.11n40	Test Date :	2017/6/16
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	E	Peak	46.71	8.96	55.67	74	-18.33
5350.00	E	Average	32.69	8.96	41.65	54	-12.35
5352.80	S	Peak	49.42	8.99	58.41	74	-15.59
5352.80	S	Average	32.71	8.99	41.70	54	-12.30

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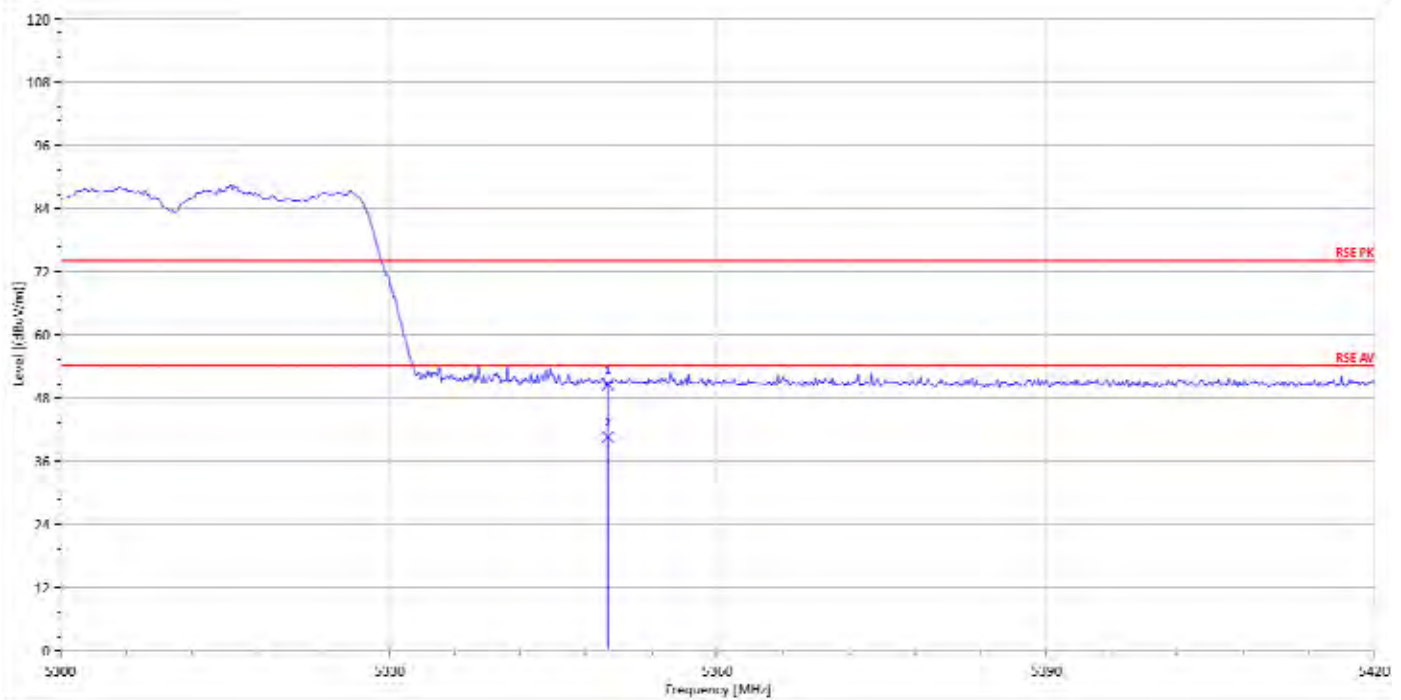
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Operation Mode :	802.11n40	Test Date :	2017/6/16
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	41.51	8.96	50.47	74	-23.53
5350.00	E	Average	31.61	8.96	40.57	54	-13.43

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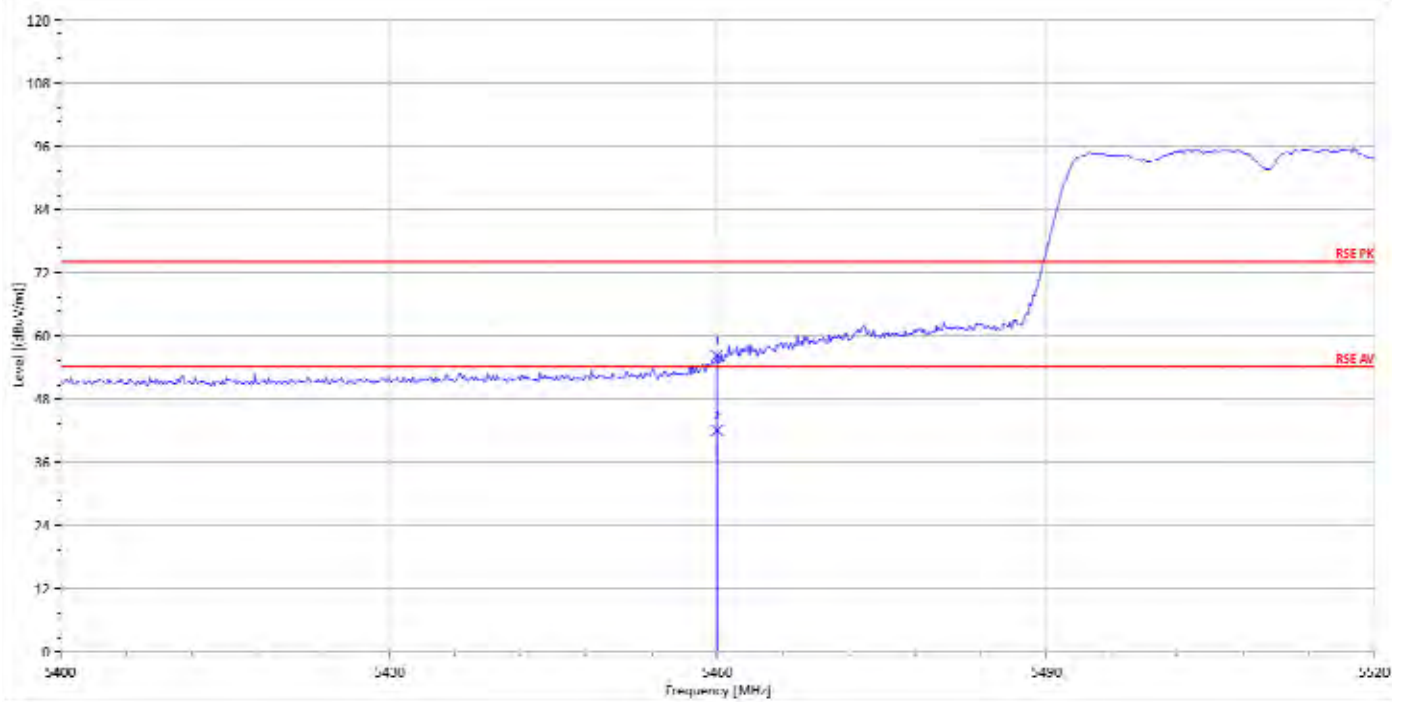
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Operation Mode :	802.11n40	Test Date :	2017/6/16
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Peak	47.33	8.88	56.21	74	-17.79
5460.00	E	Average	33.13	8.88	42.01	54	-11.99

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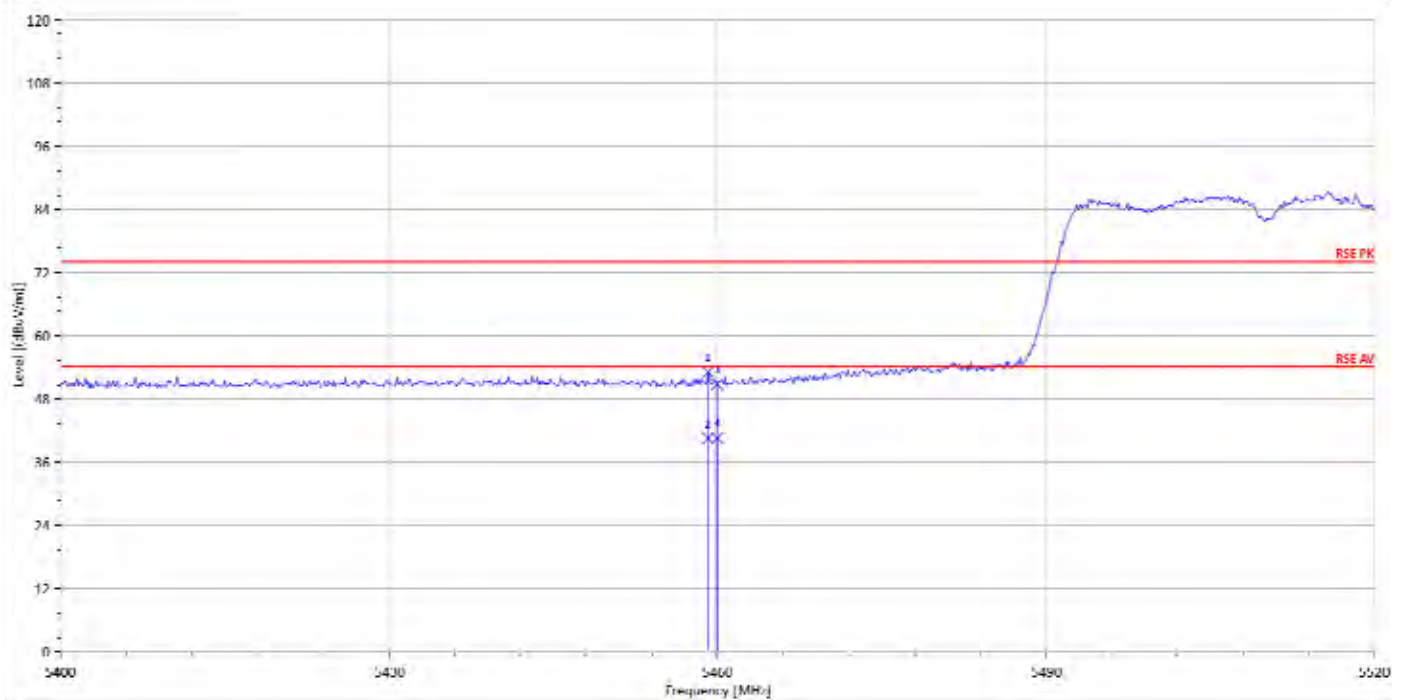
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Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5459.16	S	Peak	44.13	8.89	53.02	74	-20.98
5459.16	S	Average	31.61	8.89	40.50	54	-13.50
5460.00	E	Peak	41.83	8.88	50.71	74	-23.29
5460.00	E	Average	31.65	8.88	40.53	54	-13.47

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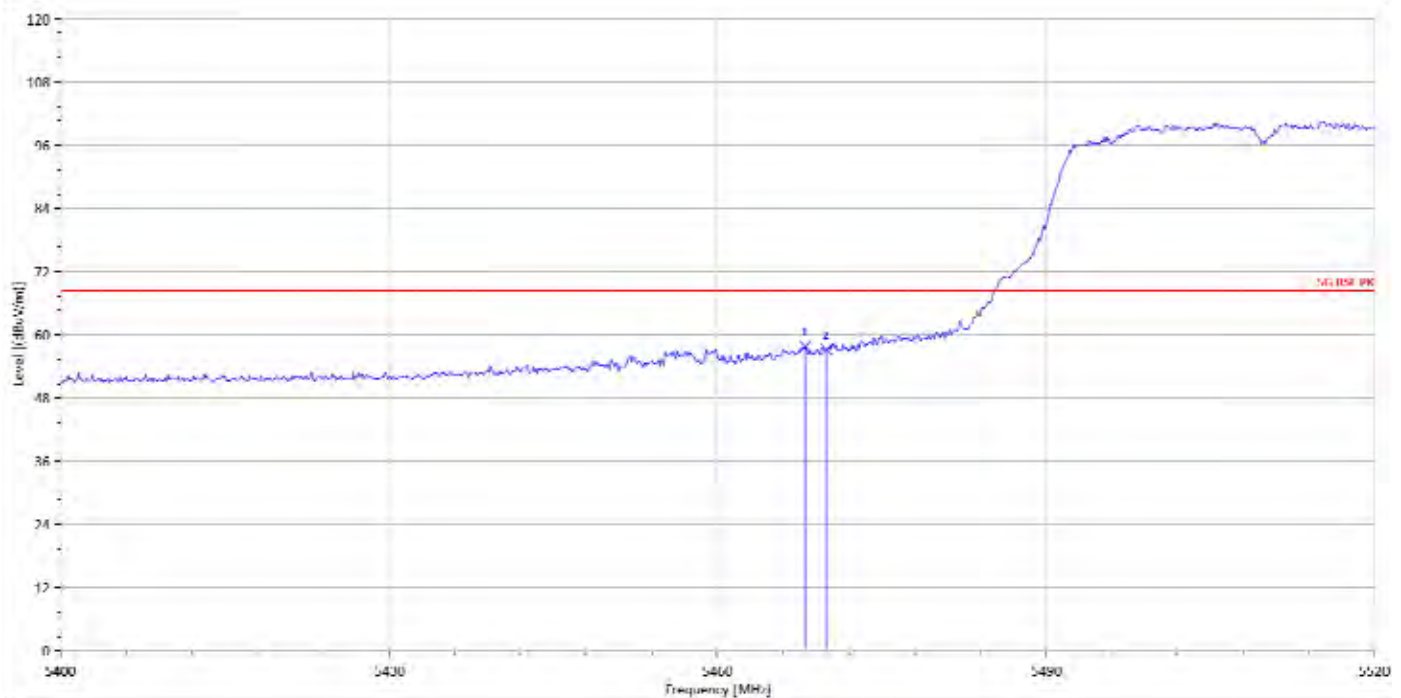
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Operation Mode :	802.11n40	Test Date :	2017/6/16
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5467.32	S	Peak	51.34	8.81	60.15	68.3	-8.15
5470.00	E	Peak	49.81	8.79	58.60	68.3	-9.70

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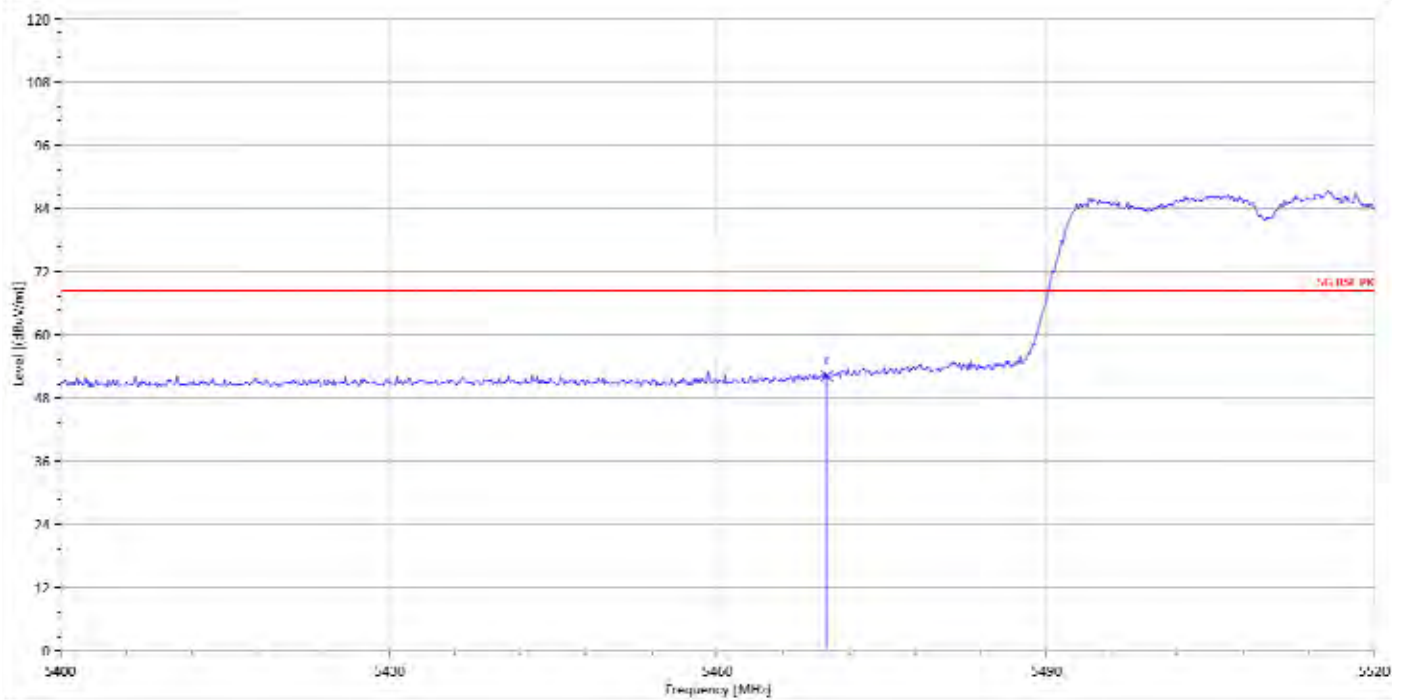
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Operation Mode :	802.11n40	Test Date :	2017/6/16
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	43.31	8.79	52.10	68.3	-16.20

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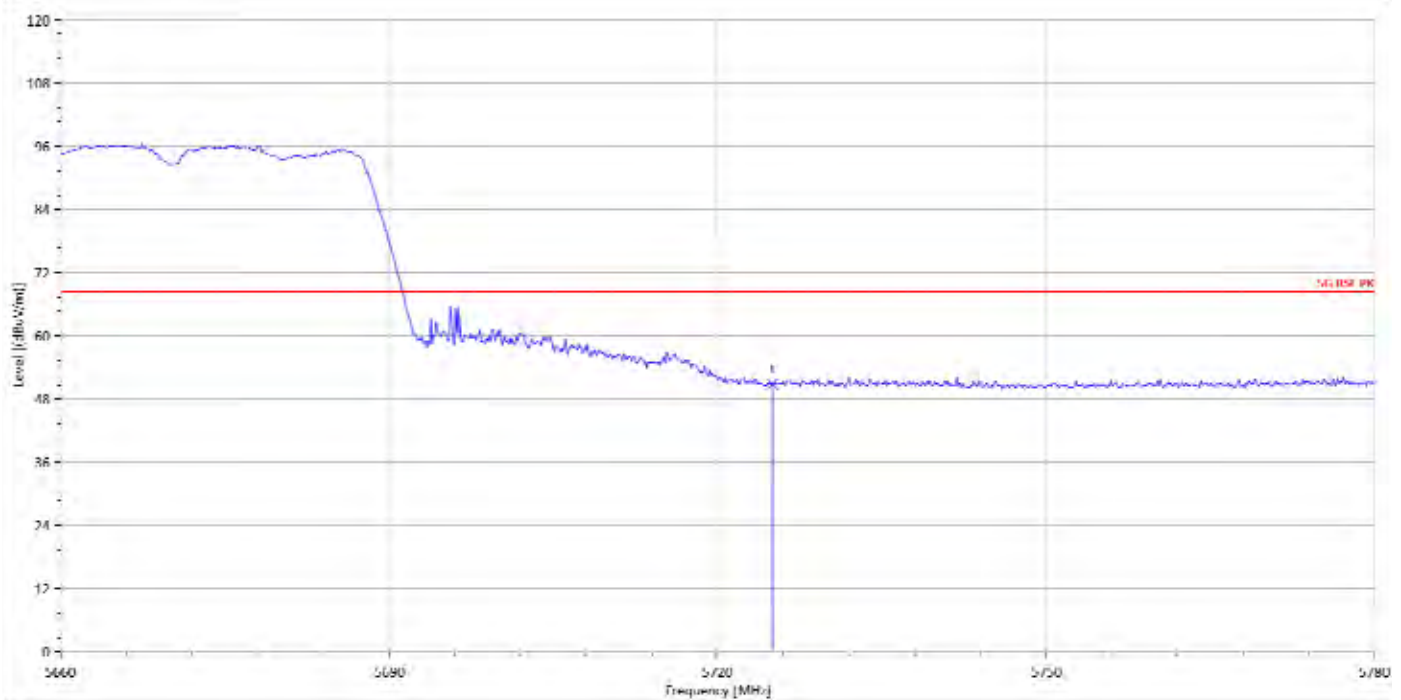
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Operation Mode :	802.11n40	Test Date :	2017/6/16
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5725.00	E	Peak	41.46	9.30	50.76	68.3	-17.54

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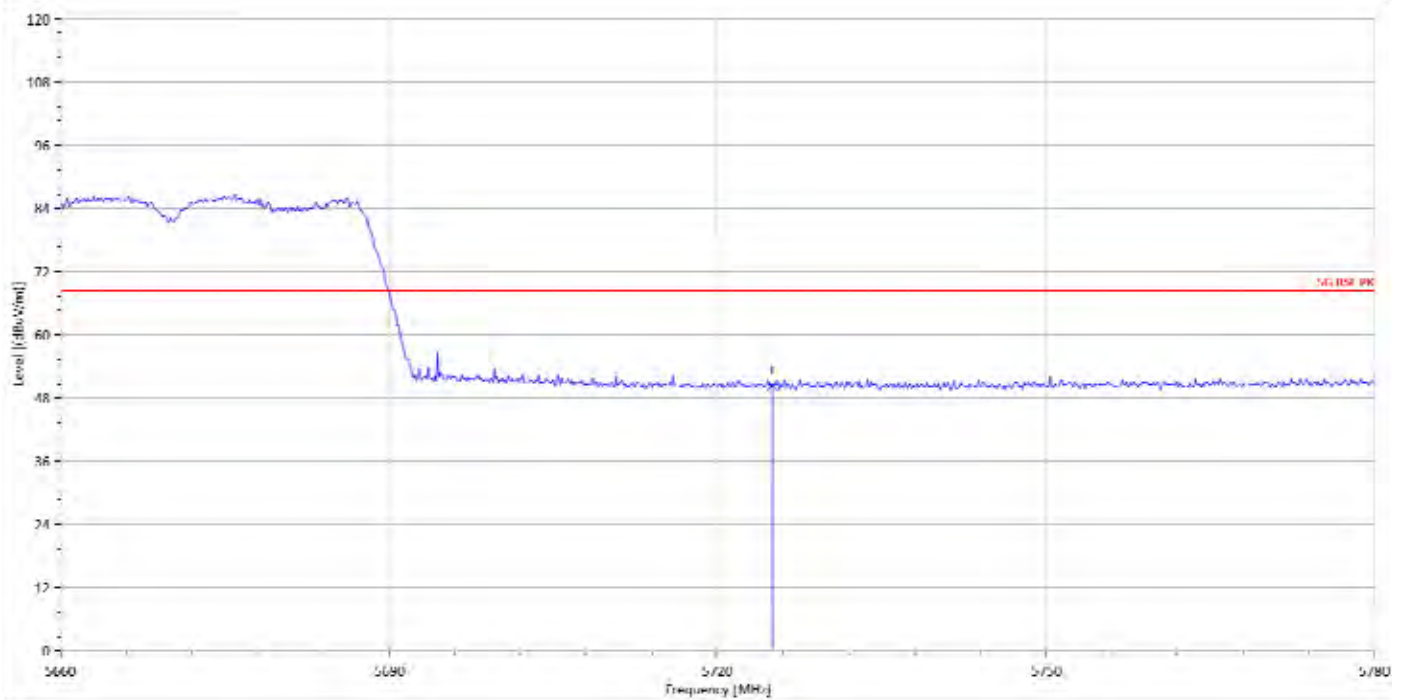
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Operation Mode :	802.11n40	Test Date :	2017/6/16
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	41.06	9.30	50.36	68.3	-17.94

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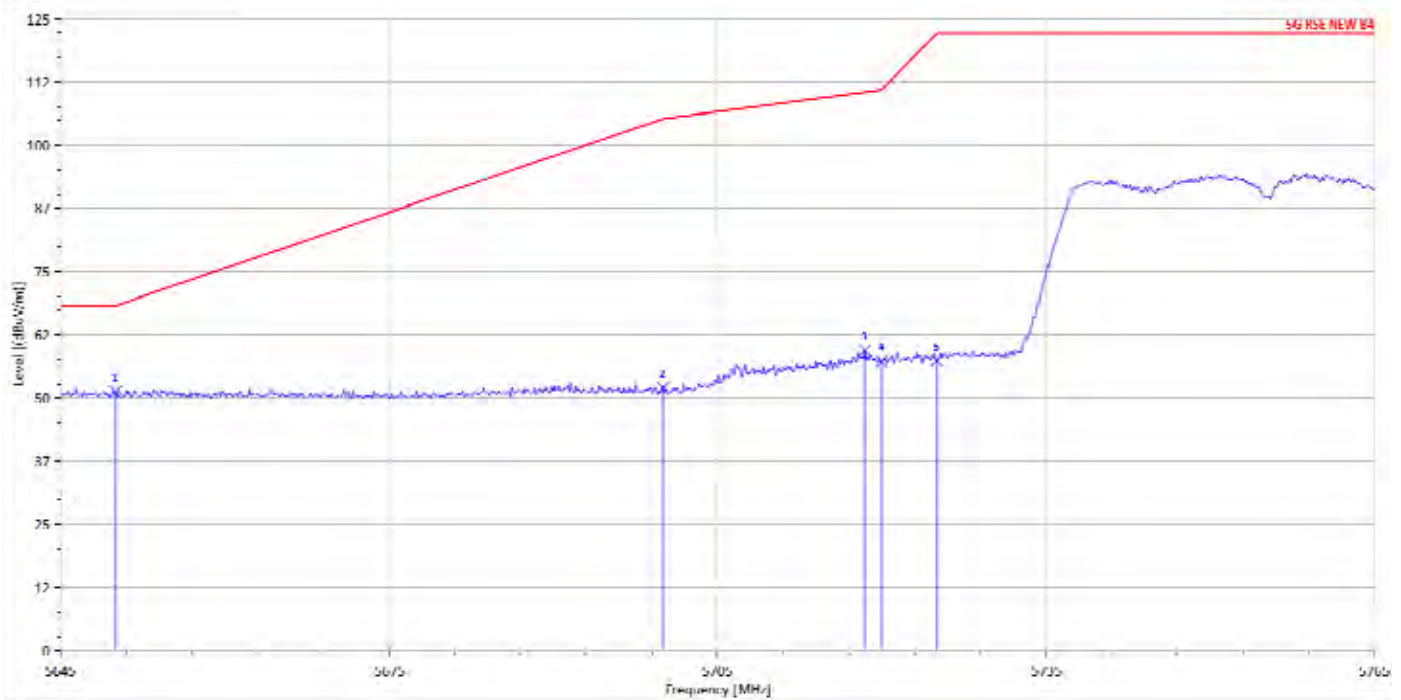
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Operation Mode : 802.11n40 Test Date : 2017/6/16
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	41.85	9.33	51.18	68.23	-17.05
5700.00	S	Peak	42.45	9.44	51.89	105.23	-53.34
5718.44	S	Peak	50.07	9.27	59.34	110.3932	-51.05
5720.00	S	Peak	47.87	9.28	57.15	110.83	-53.68
5725.00	E	Peak	48.00	9.30	57.30	122.23	-64.93

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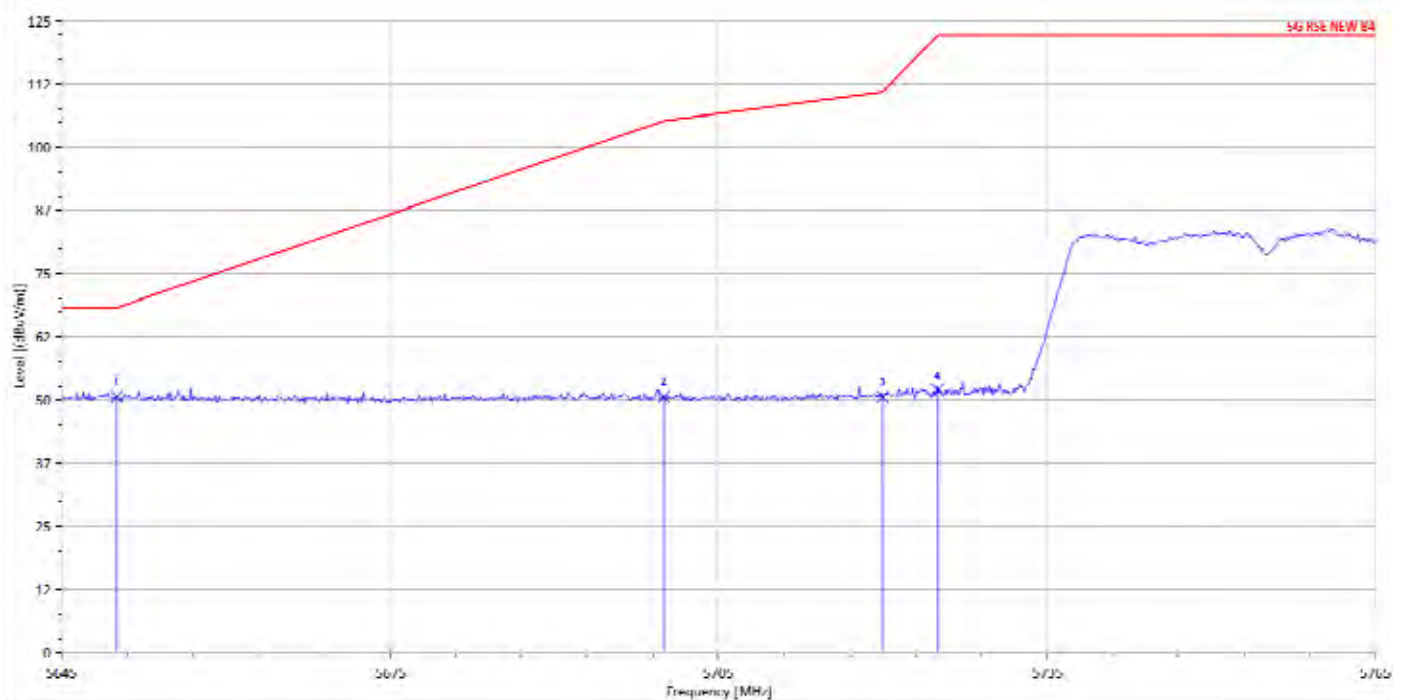
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Operation Mode :	802.11n40	Test Date :	2017/6/16
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	41.29	9.33	50.63	68.23	-17.60
5700.00	S	Peak	41.21	9.44	50.65	105.23	-54.58
5720.00	S	Peak	41.33	9.28	50.61	110.83	-60.22
5725.00	E	Peak	42.65	9.30	51.95	122.23	-70.28

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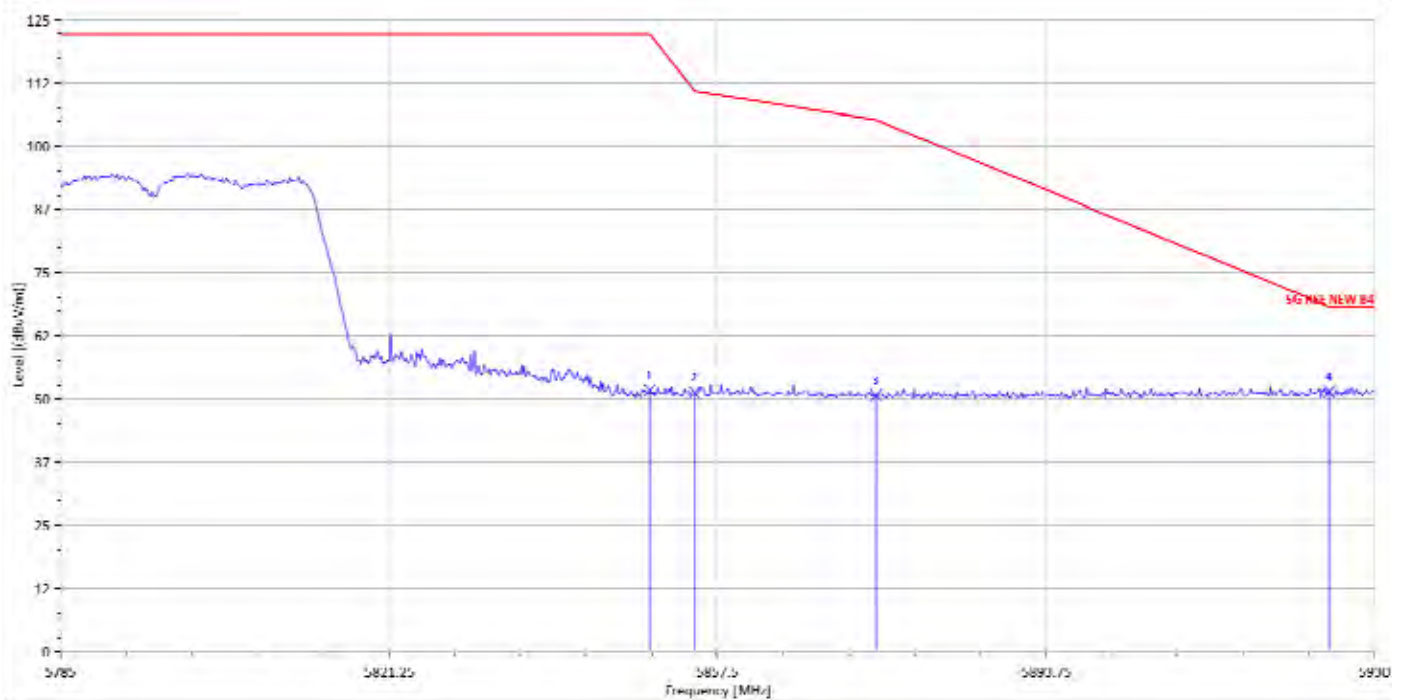
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Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	42.17	9.49	51.66	122.23	-70.57
5855.00	S	Peak	41.65	9.58	51.23	110.83	-59.60
5875.00	S	Peak	41.14	9.63	50.77	105.23	-54.46
5925.00	S	Peak	41.40	10.01	51.41	68.23	-16.82

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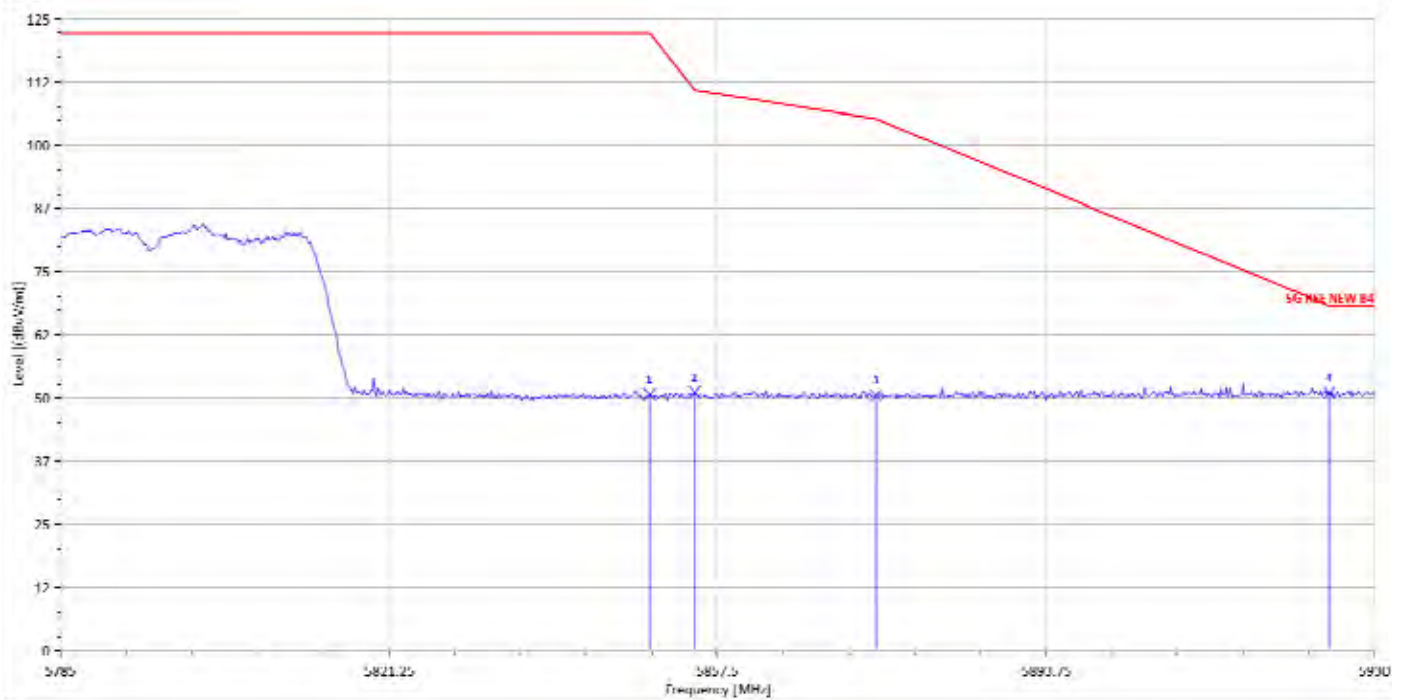
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Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	41.22	9.49	50.71	122.23	-71.52
5855.00	S	Peak	41.56	9.58	51.14	110.83	-59.69
5875.00	S	Peak	40.86	9.63	50.49	105.23	-54.74
5925.00	S	Peak	40.98	10.01	50.99	68.23	-17.24

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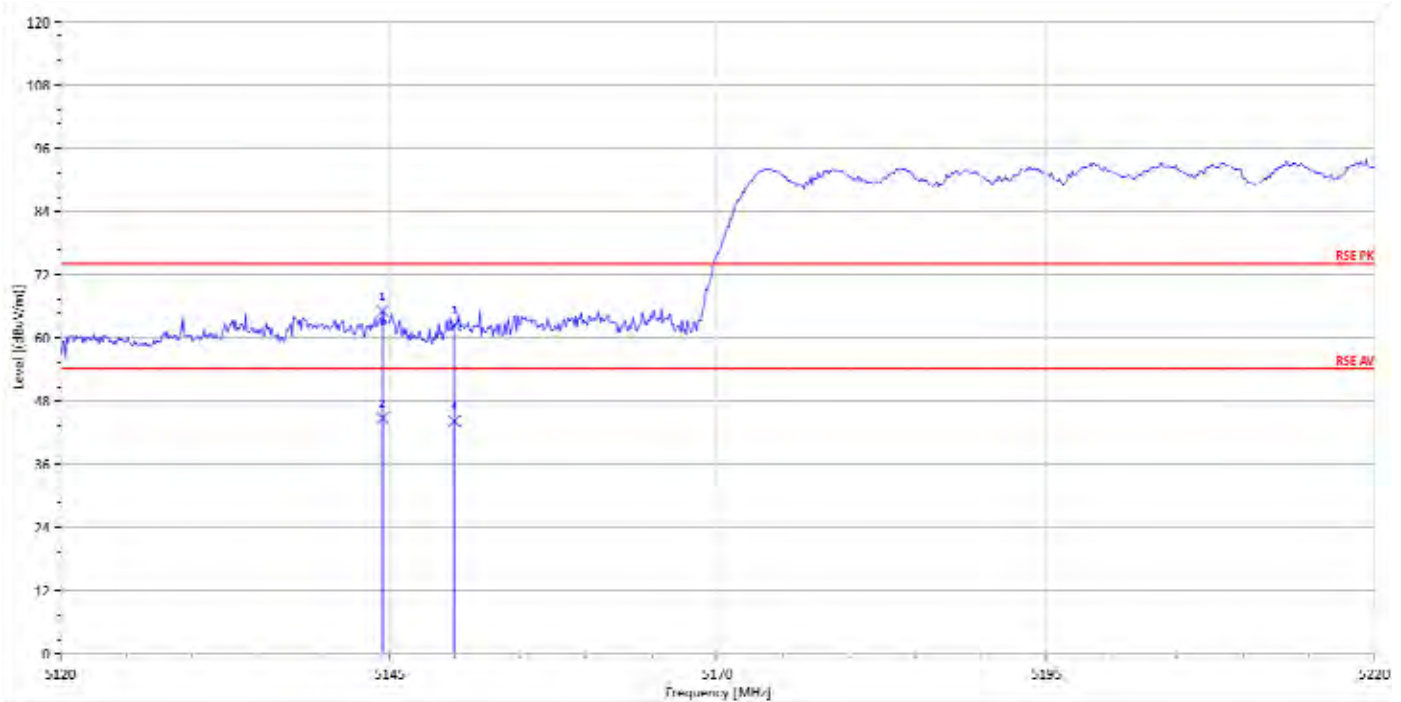
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802.11ac80 VHT mode

Operation Mode :	802.11ac80	Test Date :	2017/6/16
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	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
5144.50	S	Peak	56.98	8.16	65.14	74	-8.86
5144.50	S	Average	36.62	8.16	44.78	54	-9.22
5150.00	E	Peak	54.30	8.19	62.49	74	-11.51
5150.00	E	Average	36.02	8.19	44.21	54	-9.79

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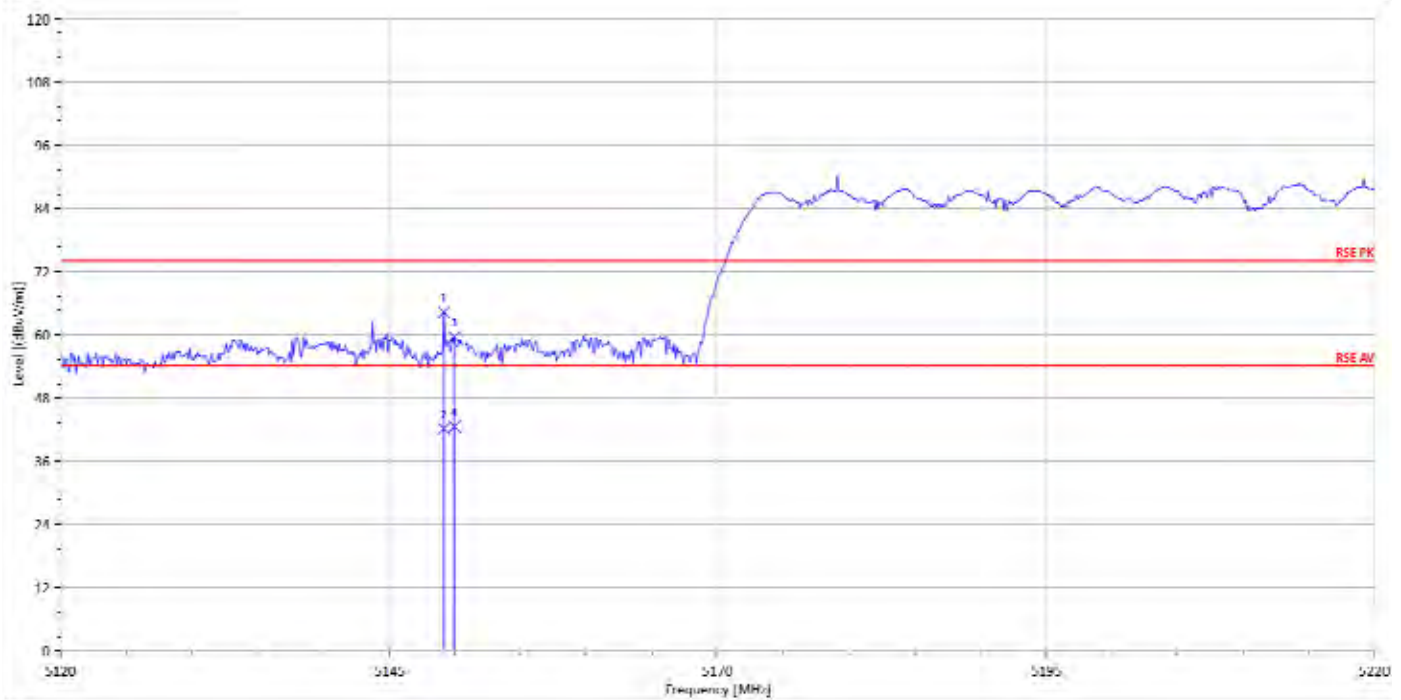
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 Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5149.20	S	Peak	56.13	8.19	64.32	74	-9.68
5149.20	S	Average	33.97	8.19	42.16	54	-11.84
5150.00	E	Peak	51.39	8.19	59.58	74	-14.42
5150.00	E	Average	34.35	8.19	42.54	54	-11.46

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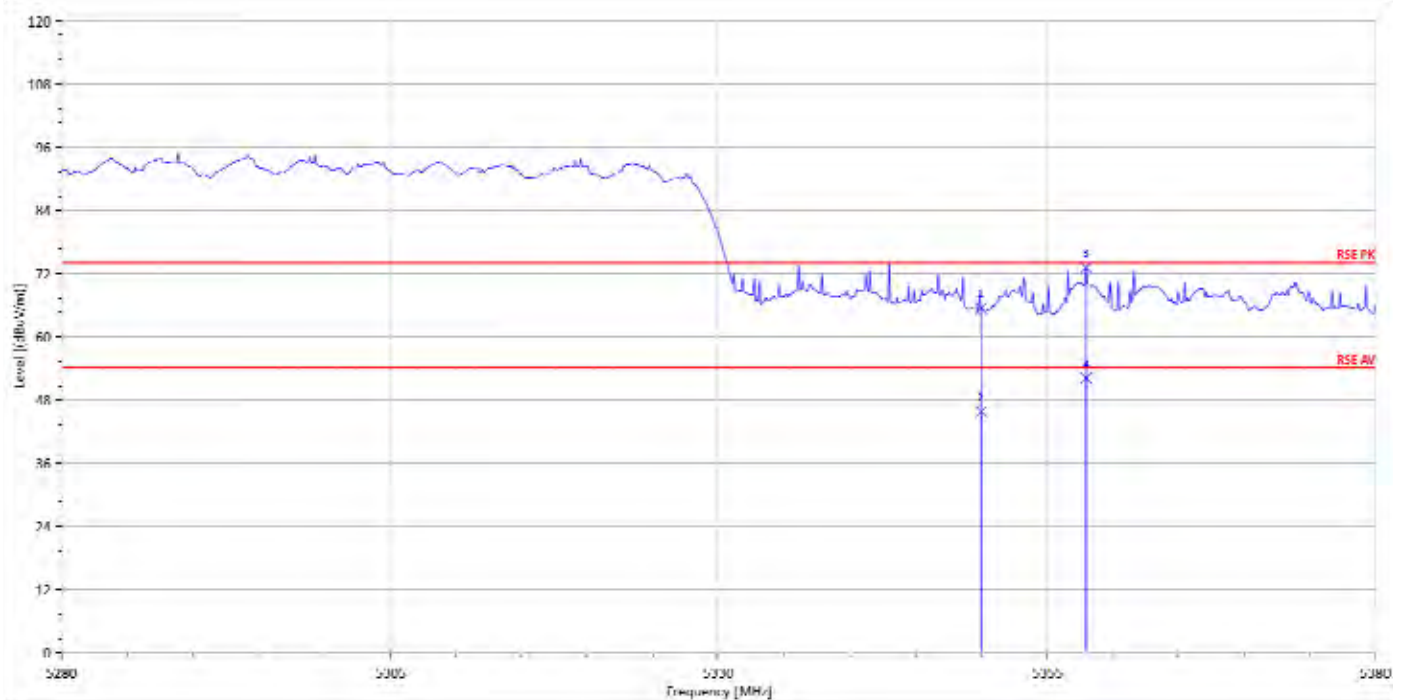
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Operation Mode : 802.11ac80 Test Date : 2017/6/16
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	56.53	8.96	65.50	74	-8.50
5350.00	E	Average	36.87	8.96	45.83	54	-8.17
5358.00	S	Peak	64.16	8.94	73.10	74	-0.90
5358.00	S	Average	43.16	8.94	52.10	54	-1.90

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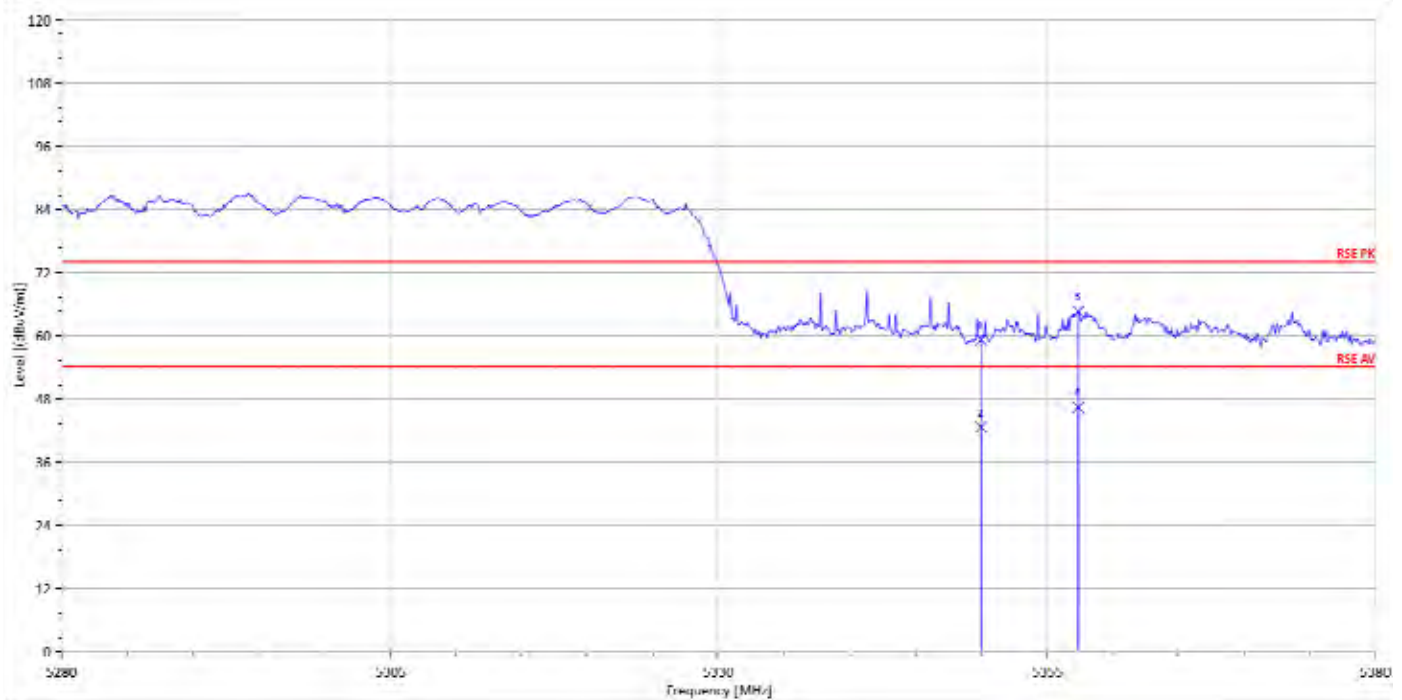
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Operation Mode : 802.11ac80 Test Date : 2017/6/16
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	E	Peak	50.25	8.96	59.22	74	-14.78
5350.00	E	Average	33.67	8.96	42.63	54	-11.37
5357.40	S	Peak	55.75	8.94	64.69	74	-9.31
5357.40	S	Average	37.53	8.94	46.47	54	-7.53

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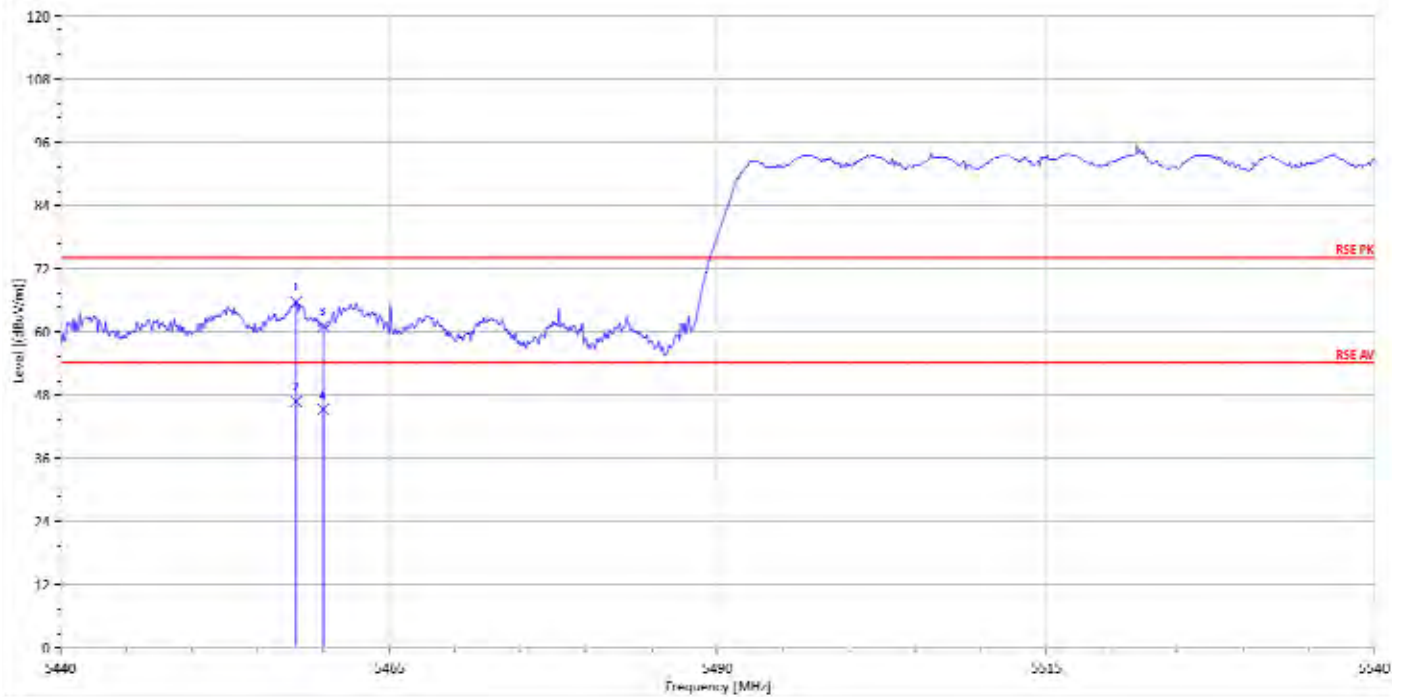
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Operation Mode : 802.11ac80 Test Date : 2017/6/16
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5457.90	S	Peak	56.79	8.90	65.70	74	-8.30
5457.90	S	Average	37.90	8.90	46.80	54	-7.20
5460.00	E	Peak	52.23	8.88	61.11	74	-12.89
5460.00	E	Average	36.38	8.88	45.26	54	-8.74

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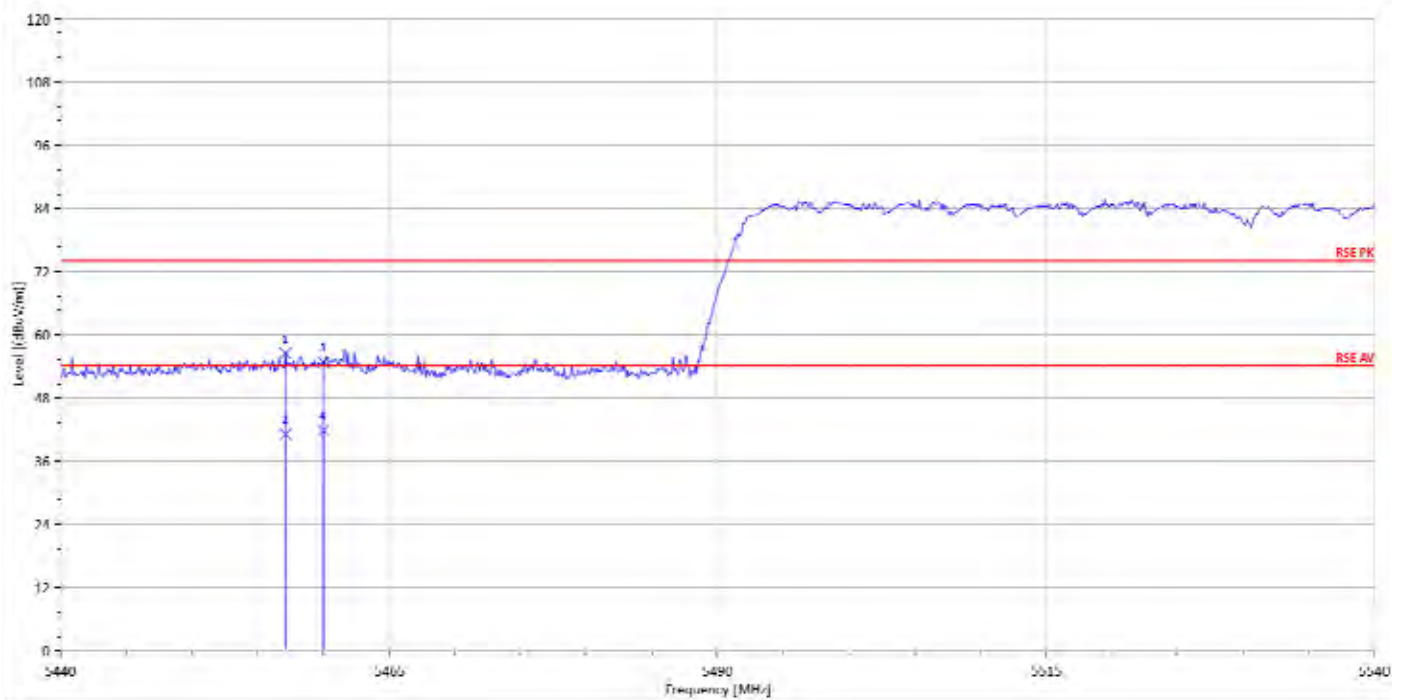
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Operation Mode : 802.11ac80 Test Date : 2017/6/16
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5457.10	S	Peak	47.55	8.91	56.46	74	-17.54
5457.10	S	Average	32.17	8.91	41.08	54	-12.92
5460.00	E	Peak	45.84	8.88	54.72	74	-19.28
5460.00	E	Average	32.93	8.88	41.81	54	-12.19

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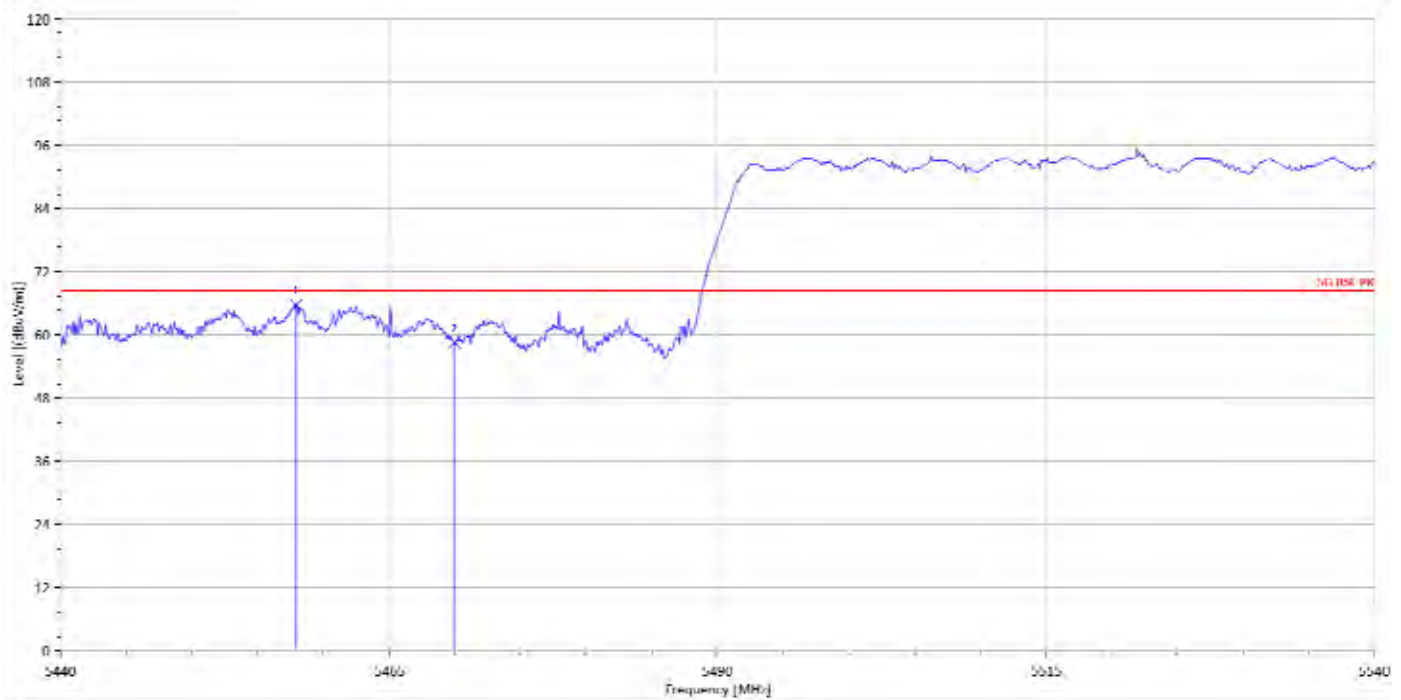
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Operation Mode :	802.11ac80	Test Date :	2017/6/16
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5457.90	S	Peak	56.79	8.90	65.70	68.3	-2.60
5470.00	E	Peak	49.73	8.79	58.52	68.3	-9.78

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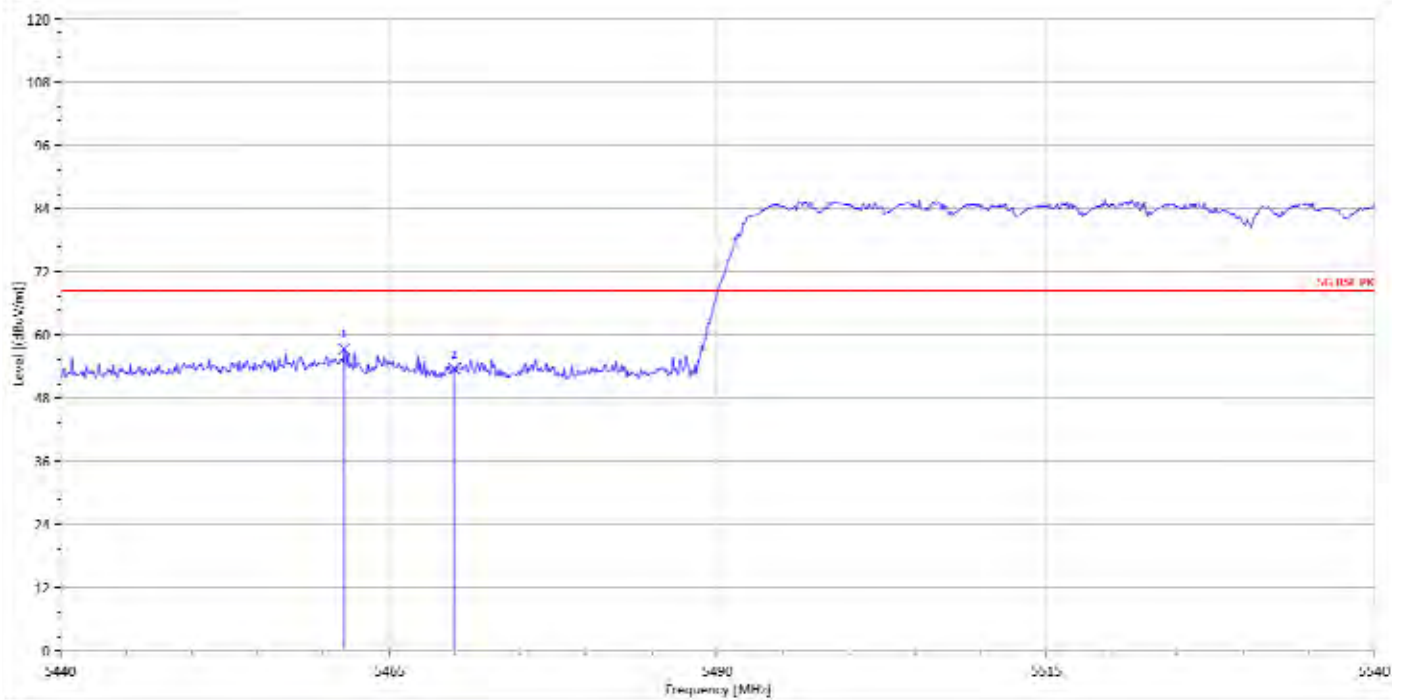
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Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5461.60	S	Peak	48.43	8.87	57.30	68.3	-11.00
5470.00	E	Peak	44.72	8.79	53.51	68.3	-14.79

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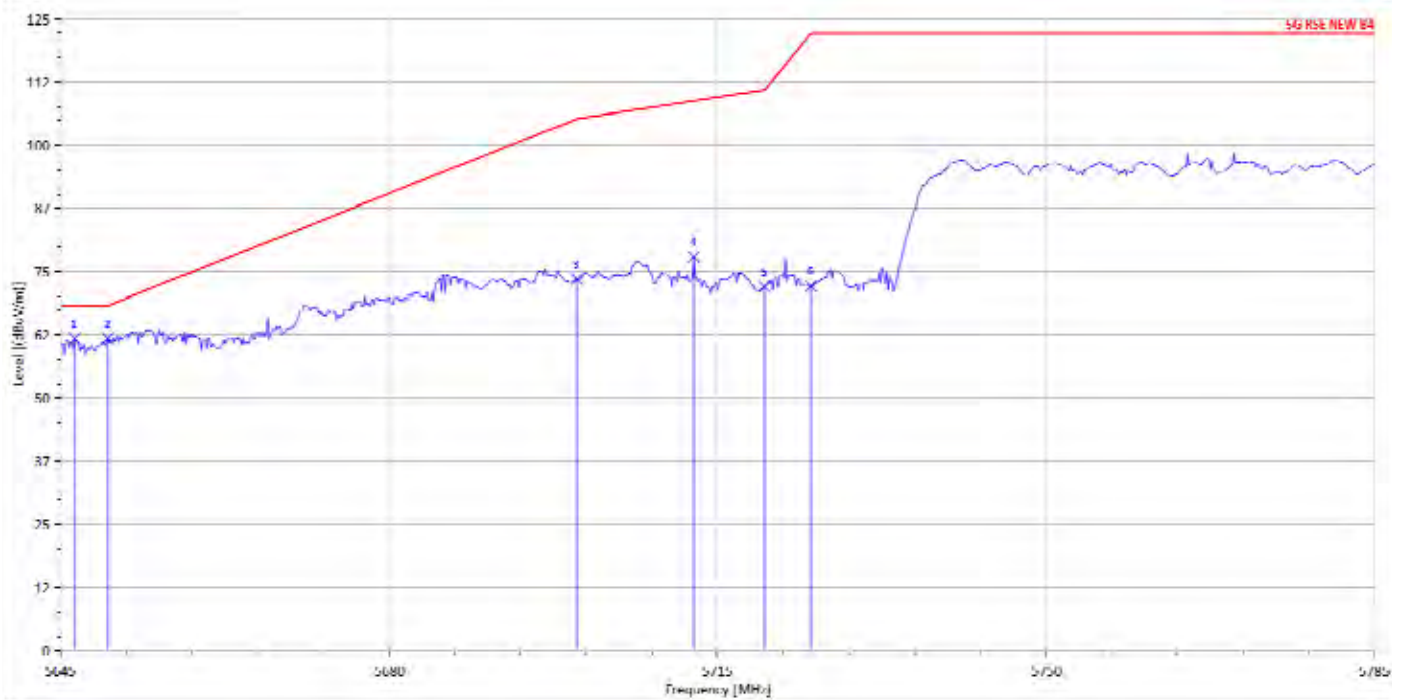
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Operation Mode : 802.11ac80 Test Date : 2017/6/16
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5646.54	S	Peak	52.41	9.37	61.78	68.23	-6.45
5650.00	S	Peak	52.45	9.33	61.78	68.23	-6.45
5700.00	S	Peak	64.00	9.44	73.44	105.23	-31.79
5712.48	S	Peak	68.65	9.25	77.91	108.7244	-30.82
5720.00	S	Peak	62.65	9.28	71.93	110.83	-38.90
5725.00	E	Peak	62.78	9.30	72.08	122.23	-50.15

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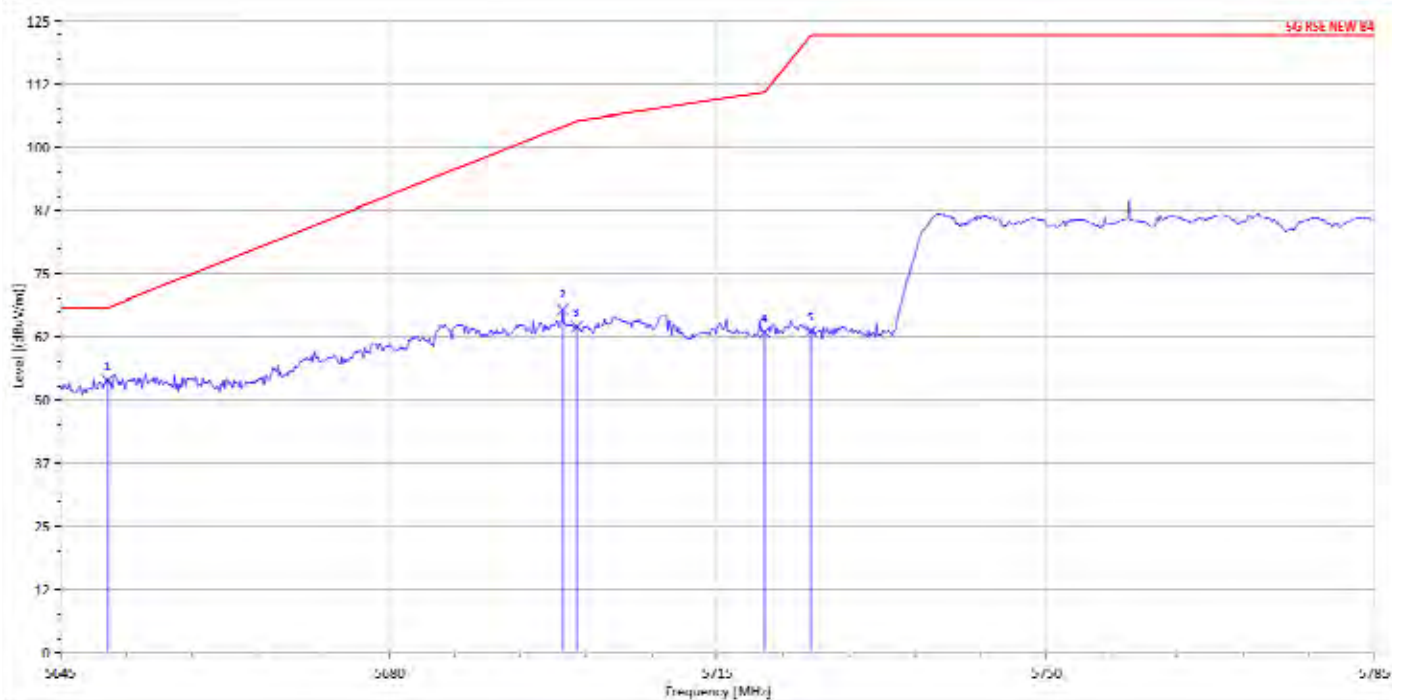
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 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	44.39	9.33	53.73	68.23	-14.50
5698.48	S	Peak	58.45	9.47	67.92	104.1052	-36.18
5700.00	S	Peak	55.04	9.44	64.48	105.23	-40.75
5720.00	S	Peak	54.12	9.28	63.40	110.83	-47.43
5725.00	E	Peak	54.35	9.30	63.65	122.23	-58.58

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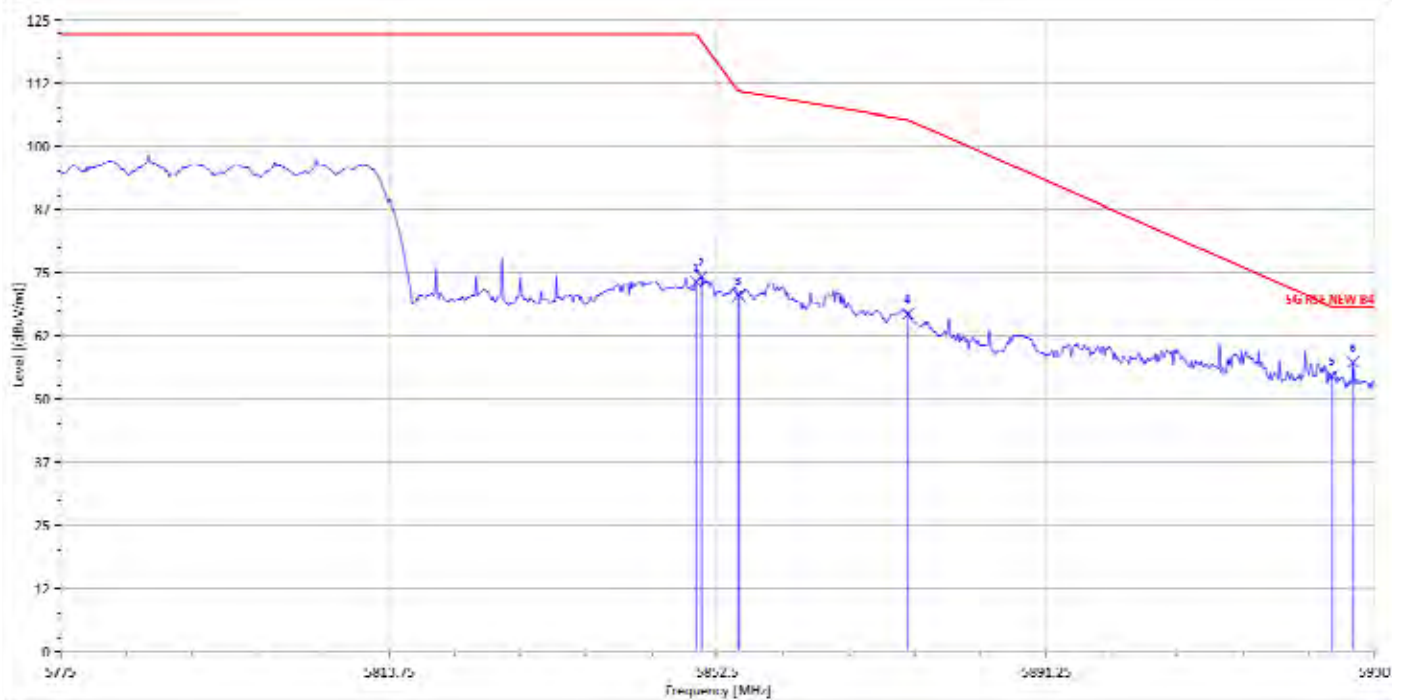
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 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	63.63	9.49	73.12	122.23	-49.11
5850.64	S	Peak	64.65	9.50	74.15	120.7705	-46.62
5855.00	S	Peak	60.92	9.58	70.50	110.83	-40.33
5875.00	S	Peak	57.21	9.63	66.84	105.23	-38.39
5925.00	S	Peak	44.45	10.01	54.46	68.23	-13.77
5927.52	S	Peak	47.16	10.04	57.20	68.23	-11.03

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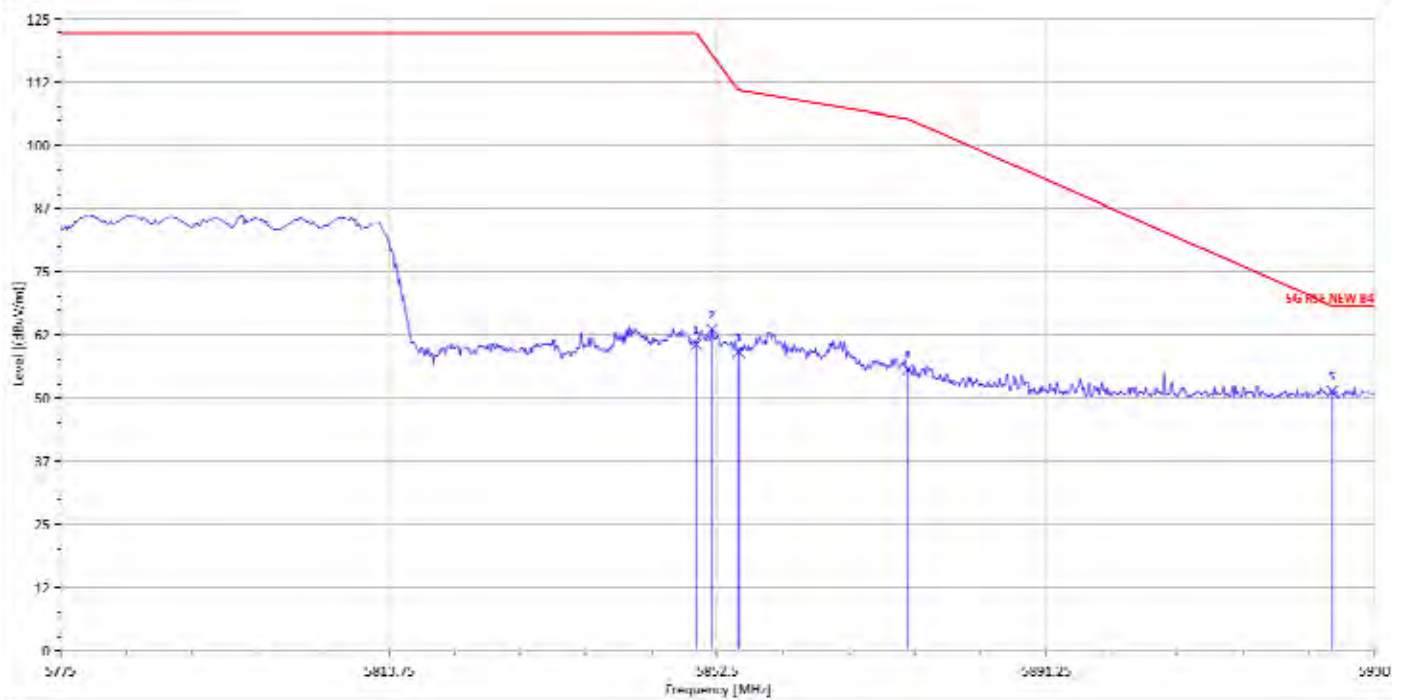
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 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	51.11	9.49	60.59	122.23	-61.64
5851.88	S	Peak	54.09	9.52	63.62	117.9439	-54.33
5855.00	S	Peak	49.43	9.58	59.01	110.83	-51.82
5875.00	S	Peak	45.86	9.63	55.49	105.23	-49.74
5925.00	S	Peak	41.26	10.01	51.28	68.23	-16.95

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12. TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13. FREQUENCY STABILITY

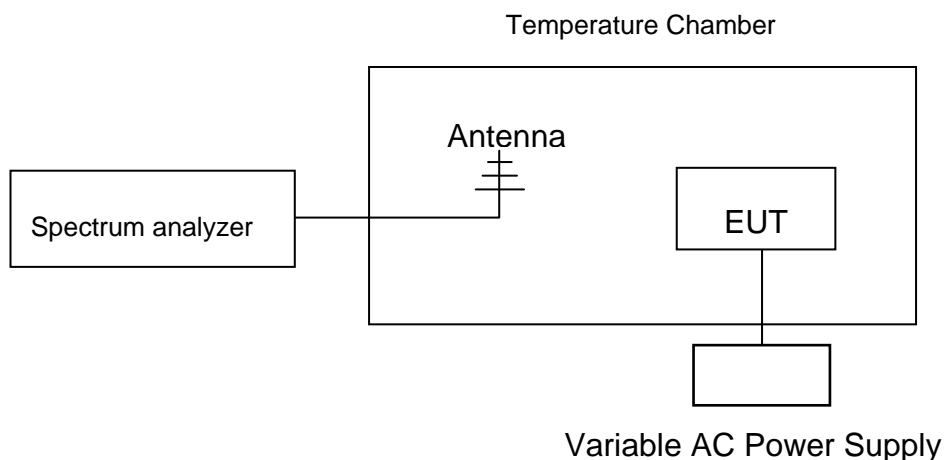
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equip-ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018

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13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2017.07.12
Temperature	:23	Test By	Enzo
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	13.2V	36	5180	5,190.01769	-0.00193392
		44	5220	5,230.08575	-0.00193214
		48	5240	5,270.01643	-0.00572833
		52	5260	5,310.04573	-0.00951440
		60	5300	5,510.03975	-0.03963014
		64	5320	5,550.09532	-0.04325100
		100	5500	5,670.03168	-0.03091485
		116	5580	5,755.02102	-0.03136577
		140	5700	5,795.07554	-0.01667992
		149	5745	5,190.06476	0.09659447
		157	5785	5,230.00358	0.09593715
		165	5825	5,270.08377	0.09526459
	10.8V	36	5180	5,310.09014	-0.02511393
		44	5220	5,510.02939	-0.05556119
		48	5240	5,550.00727	-0.05916169
		52	5260	5,670.00364	-0.07794746
		60	5300	5,755.09096	-0.08586622
		64	5320	5,795.07012	-0.08929889
		100	5500	5,190.01752	0.05636045
		116	5580	5,230.07967	0.06270974
		140	5700	5,270.05110	0.07542963
		149	5745	5,310.06881	0.07570604
		157	5785	5,510.04159	0.04752954
		165	5825	5,550.04255	0.04720300

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25	12V	36	5180	5,179.95980	0.00000776
		44	5220	5,219.93889	0.00001171
		48	5240	5,239.99166	0.00000159
		52	5260	5,259.94026	0.00001136
		60	5300	5,299.96488	0.00000663
		64	5320	5,319.90175	0.00001847
		100	5500	5,499.99214	0.00000143
		116	5580	5,579.94375	0.00001008
		140	5700	5,699.95104	0.00000859
		149	5745	5,744.92925	0.00001232
		157	5785	5,784.99275	0.00000125
		165	5825	5,824.96366	0.00000624

40	13.2V	36	5180	5,179.97497	0.00000483
		44	5220	5,219.91429	0.00001642
		48	5240	5,239.99485	0.00000098
		52	5260	5,259.97141	0.00000544
		60	5300	5,299.92955	0.00001329
		64	5320	5,319.94645	0.00001007
		100	5500	5,499.96443	0.00000647
		116	5580	5,579.98002	0.00000358
		140	5700	5,699.97768	0.00000392
		149	5745	5,744.96192	0.00000663
		157	5785	5,784.90434	0.00001654
		165	5825	5,824.96834	0.00000544
	10.8V	36	5180	5,179.92589	0.00001431
		44	5220	5,219.96950	0.00000584
		48	5240	5,239.90325	0.00001846
		52	5260	5,259.92123	0.00001498
		60	5300	5,299.91760	0.00001555
		64	5320	5,319.98500	0.00000282
		100	5500	5,499.97993	0.00000365
		116	5580	5,579.97935	0.00000370
		140	5700	5,699.96479	0.00000618
		149	5745	5,744.97706	0.00000399
		157	5785	5,784.95507	0.00000777
		165	5825	5,824.91884	0.00001393

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Operation Mode	802.11 n_HT40	Test Date	2017.07.12
Temperature	:23	Test By	Enzo
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	13.2V	38	5190	5,210.01436	-0.00385633
		46	5230	5,290.09035	-0.01148955
		54	5270	5,530.01583	-0.04933887
		62	5310	5,610.07895	-0.05651204
		102	5510	5,775.09868	-0.04811228
		110	5550	5,210.03518	0.06125492
		134	5670	5,290.07942	0.06700539
		151	5755	5,530.06882	0.03908448
		159	5795	5,610.08274	0.03190979
	10.8V	38	5190	5,775.07184	-0.11273061
		46	5230	5,210.09928	0.00380511
		54	5270	5,290.04911	-0.00380439
		62	5310	5,530.02774	-0.04143649
		102	5510	5,610.03551	-0.01815526
		110	5550	5,775.01050	-0.04054243
		134	5670	5,210.04842	0.08112021
		151	5755	5,290.07014	0.08078712
		159	5795	5,530.06592	0.04571770

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25	12V	38	5190	5,189.94705	0.00001020
		46	5230	5,229.90352	0.00001845
		54	5270	5,269.93543	0.00001225
		62	5310	5,309.97357	0.00000498
		102	5510	5,509.91353	0.00001569
		110	5550	5,549.92459	0.00001359
		134	5670	5,669.94837	0.00000911
		151	5755	5,754.97671	0.00000405
		159	5795	5,794.99014	0.00000170
40	13.2V	38	5190	5,189.93952	0.00001165
		46	5230	5,229.98229	0.00000339
		54	5270	5,269.93748	0.00001186
		62	5310	5,309.91753	0.00001553
		102	5510	5,509.92713	0.00001323
		110	5550	5,549.94322	0.00001023
		134	5670	5,669.90289	0.00001713
		151	5755	5,754.93892	0.00001061
		159	5795	5,794.97941	0.00000355
	10.8V	38	5190	5,189.95355	0.00000895
		46	5230	5,229.92514	0.00001431
		54	5270	5,269.97912	0.00000396
		62	5310	5,309.95335	0.00000879
		102	5510	5,509.94884	0.00000928
		110	5550	5,549.93316	0.00001204
		134	5670	5,669.94716	0.00000932
		151	5755	5,754.90237	0.00001696
		159	5795	5,794.97079	0.00000504

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Operation Mode	802.11 ac_VHT80	Test Date	2017.07.12
Temperature	:23	Test By	Enzo
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	13.2V	42	5210	5,209.94686	0.00001020
		58	5290	5,289.91979	0.00001516
		106	5530	5,529.91140	0.00001602
		122	5610	5,609.97376	0.00000468
		155	5775	5,774.95577	0.00000766
	10.8V	42	5210	5,209.91159	0.00001697
		58	5290	5,289.94228	0.00001091
		106	5530	5,529.98042	0.00000354
		122	5610	5,609.92958	0.00001255
		155	5775	5,774.97248	0.00000477
25	12V	42	5210	5,209.97943	0.00000395
		58	5290	5,289.99103	0.00000170
		106	5530	5,529.93717	0.00001136
		122	5610	5,609.97599	0.00000428
		155	5775	5,774.92871	0.00001234
40	13.2V	42	5210	5,209.99167	0.00000160
		58	5290	5,289.96068	0.00000743
		106	5530	5,529.98286	0.00000310
		122	5610	5,609.91912	0.00001442
		155	5775	5,774.99538	0.00000080
	10.8V	42	5210	5,209.94733	0.00001011
		58	5290	5,289.95181	0.00000911
		106	5530	5,529.99174	0.00000149
		122	5610	5,609.93293	0.00001196
		155	5775	5,774.94715	0.00000915

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14. ANTENNA REQUIREMENT

14.1 Standard Applicable

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

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

14.2 Antenna Connected Construction

PIFA antenna designs are used.

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

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

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15. FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

15.1 Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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15.2 Maximum Permissible Exposure (MPE) Evaluation

802.11a Max. output power

802.11a_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	9.61	10.31	12.98	19.881	29.5	PASS
44	5220	MCS8	9.65	10.23	12.96	19.770	29.5	PASS
48	5240	MCS8	9.45	10.11	12.80	19.067	29.5	PASS
52	5260	MCS8	9.76	10.05	12.92	19.578	23.48 or $11+10\log(B) = 23.92$	PASS
60	5300	MCS8	9.21	9.98	12.62	18.291	23.48 or $11+10\log(B) = 23.95$	PASS
64	5320	MCS8	10.31	9.15	12.78	18.962	23.48 or $11+10\log(B) = 23.91$	PASS
100	5500	MCS8	8.45	11.03	12.94	19.675	22.77 or $11+10\log(B) = 23.97$	PASS
116	5580	MCS8	9.54	9.85	12.71	18.655	22.77 or $11+10\log(B) = 23.93$	PASS
140	5700	MCS8	9.11	10.53	12.89	19.445	22.77 or $11+10\log(B) = 23.95$	PASS
149	5745	MCS8	8.95	10.74	12.95	19.710	28.62	PASS
157	5785	MCS8	9.12	9.93	12.55	18.006	28.62	PASS
165	5825	MCS8	8.61	11.02	12.99	19.908	28.62	PASS

MPE Prediction (802.11a 5150~5250)

MIMO gain= $G+(10 \log N)= 3.49+3.01= 6.5\text{dB}$

Average output power at antenna input terminal:	12.98	(dBm)
Average output power at antenna input terminal:	19.860949	(mW)
Duty cycle:	100	(%)
Maximum Pav :	19.860949	(mW)
Peak Antenna gain (Maximum):	6.5	(dBi)
Peak Antenna gain (linear):	4.4668359	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5180	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.018	(mW/cm ²)
Measurement Result		
The predicted power density level at 20 cm is 0.018 mW/cm ² .		
This is below the uncontrolled exposure limit of 1 mW/cm ² at 5180MHz.		

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MPE Prediction (802.11a 5250~5350)

MIMO gain= $G+(10 \log N)= 3.49+3.01= 6.5\text{dB}$

Average output power at antenna input terminal:	12.92	(dBm)
Average output power at antenna input terminal:	19.588447	(mW)
Duty cycle:	100	(%)
Maximum Pav :	19.588447	(mW)
Peak Antenna gain (Maximum):	6.5	(dBi)
Peak Antenna gain (linear):	4.4668359	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5260	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.017	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.017 mW/cm².
This is below the uncontrolled exposure limit of 1 mW/cm² at 5260MHz.

MPE Prediction (802.11a 5470~5725)

MIMO gain= $G+(10 \log N)= 4.2+3.01= 7.21\text{dB}$

Average output power at antenna input terminal:	12.94	(dBm)
Average output power at antenna input terminal:	19.678863	(mW)
Duty cycle:	100	(%)
Maximum Pav :	19.678863	(mW)
Peak Antenna gain (Maximum):	7.21	(dBi)
Peak Antenna gain (linear):	5.2601727	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5500	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.021	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.021 mW/cm².
This is below the uncontrolled exposure limit of 1 mW/cm² at 5500MHz.

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MPE Prediction (802.11a 5725~5850)

MIMO gain= $G+(10 \log N)= 4.37+3.01= 7.38\text{dB}$

Average output power at antenna input terminal:	12.99	(dBm)
Average output power at antenna input terminal:	19.906733	(mW)
Duty cycle:	100	(%)
Maximum Pav :	19.906733	(mW)
Peak Antenna gain (Maximum):	7.38	(dBi)
Peak Antenna gain (linear):	5.4701596	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5825	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.022	(mW/cm ²)
Measurement Result		
The predicted power density level at 20 cm is 0.022 mW/cm ² .		
This is below the uncontrolled exposure limit of 1 mW/cm ² at 5825MHz.		

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