

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Product Name: LTE Tablet PC

Brand Name: Sprint

Model No.: AQT82

Model Difference: N/A

FCC ID: T5UAQT82

Report No.: E2/2017/20050

Issue Date: Mar. 22, 2017

FCC Rule Part: §15.407

Prepared for: Quanta Microsystems, Inc
188 Wenhwa 2nd Rd., Guishan Dist., Tao
Yuan City, Taiwan, 33377

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan District,
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VERIFICATION OF COMPLIANCE

Applicant: Quanta Microsystems, Inc
188 Wenhwa 2nd Rd., Guishan Dist., Tao Yuan City, Taiwan, 33377

Product Name: LTE Tablet PC

Brand Name: Sprint

Model No.: AQT82

Model Difference: N/A

FCC ID: T5UAQT82

File Number: E2/2017/20050

Date of Test: Mar. 01, 2017 ~ Mar. 15, 2017

Date of EUT Received: Mar. 01, 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:

Jerry Lu

Date:

Mar. 22, 2017

Jerry Lu / Sr. Engineer

Prepared By:

Violetta Tang

Date:

Mar. 22, 2017

Violetta Tang / Clerk

Approved By:

Jim Chang

Date:

Mar. 22, 2017

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2017/20050	Rev.00	Initial creation of document	Mar. 22, 2017

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	LTE Tablet PC	
Brand Name:	Sprint	
Model No.:	AQT82	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
USB Cable:	Model No.: N/A, Supplier: N/A	
Power Supply:	3.8Vdc from Rechargeable Li-ion Battery or 5V from AC/DC Power Adapter	
	Battery:	Model No.: NKS, Supplier: Ningbo Veken Battery Co., LTD.
	Adapter:	Model No.: NSS050200B, Supplier: TPT

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	16.97dBm	OFDM
	5250~5350	4	16.78dBm	
	5470~5725	12	16.97dBm	
	5725-5850	5	16.96dBm	
11n_20M	HT 20 5150~5250	4	16.85dBm	OFDM
	HT 20 5250~5350	4	16.98dBm	
	HT 20 5470~5725	11	16.92dBm	
	HT 20 5725-5850	5	16.97dBm	
11n_40M	HT 40 5150~5250	2	16.78dBm	OFDM
	HT 40 5250~5350	2	16.77dBm	
	HT 40 5470~5725	5	16.97dBm	
	HT 40 5725-5850	2	16.86dBm	
Antenna Designation		PIFA Antenna, 5GHz Gain: -3.1dBi (5150MHz-5250MHz) 5GHz Gain: -1.0dBi (5250MHz-5350MHz) 5GHz Gain: -0.3dBi (5470MHz-5725MHz) 5GHz Gain: 0.6dBi (5725MHz-5850MHz)		
Modulation Type		64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		802.11 a: 6/9/12/18/24/36/48/54 Mbps; 802.11 n_20MHz: 6.5 – 65Mbps 802.11 n_40MHz: 13.5 – 135Mbps		

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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 644545 D03 Guidance for IEEE 802.11ac v01

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

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.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 placed on a turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground 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 three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

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

Following shows an offset computation example with cable loss 1.5dB, and 10dB attenuator.

Offset:

= RF cable loss (dB) + attenuation factor (dB) dB = 11.5dB

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration



Fig. 2-2 Conducted (Antenna Port) Configuration

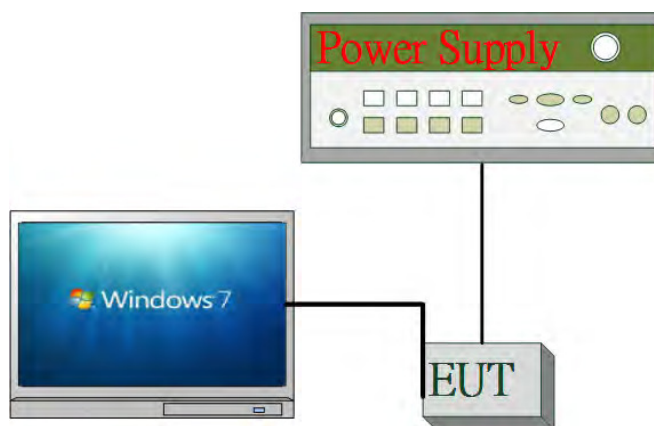


Fig. 2-3 AC Power Line Conducted Emission Configuration

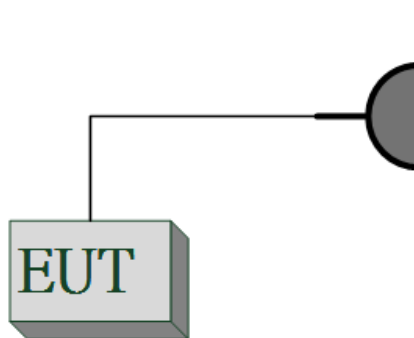


Table 2-1 Equipment Used in Tested System

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	L430	PK-OCGFF	N/A	Un-shield
3.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	N/A

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3. SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	26 dB & 6dB 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

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

2 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n_HT20

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

2 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

Operated band in 5470 MHz ~5725 MHz:

11 channels are provided for 802.11a, 802.11n_HT20

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

5 channels are provided for 802.11n_HT40

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

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Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n_HT20

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

2 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

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4.2 The Worst Test Modes and Channel Details

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

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN

Note:

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

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN

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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

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

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6. CONDUCTED EMISSION TEST

6.1. Standard Applicable

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

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

6.2. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2016	12/11/2017
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	08/30/2016	08/29/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2017	03/10/2018
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3. EUT Setup

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

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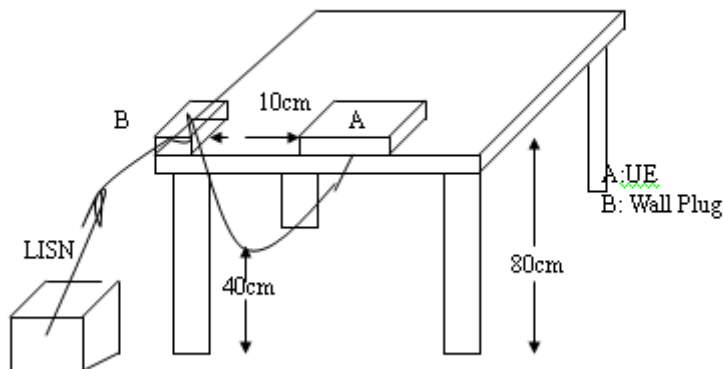
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6.4. Test SET-UP



6.5. Measurement Procedure

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

6.6. Measurement Result

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

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

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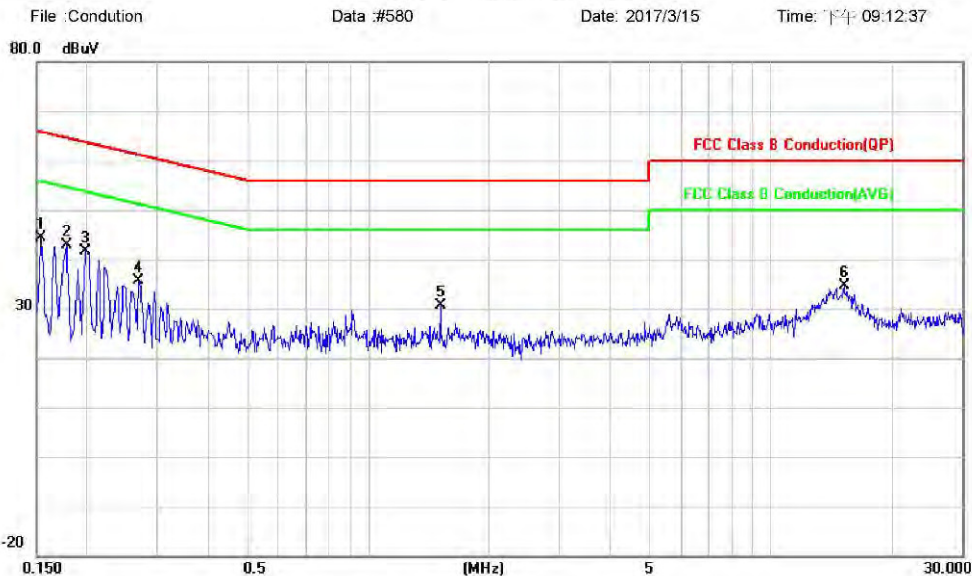
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	Mar. 15, 2017
Temperature:	19.5 °C	Humidity:	51 %	Test By:	Jerry
				Phase:	L1 / N

Site : Conduction Room Phase: **L1** Temperature: 19.5 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 51 %
 Mode: AQT80
 Note

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1540	24.59	19.80	44.39	65.78	-21.39	peak	
2		0.1780	23.17	19.79	42.96	64.58	-21.62	peak	
3		0.1980	21.93	19.79	41.72	63.69	-21.97	peak	
4		0.2700	15.70	19.84	35.54	61.12	-25.58	peak	
5		1.5140	10.50	20.03	30.53	56.00	-25.47	peak	
6		15.2660	13.69	20.96	34.65	60.00	-25.35	peak	

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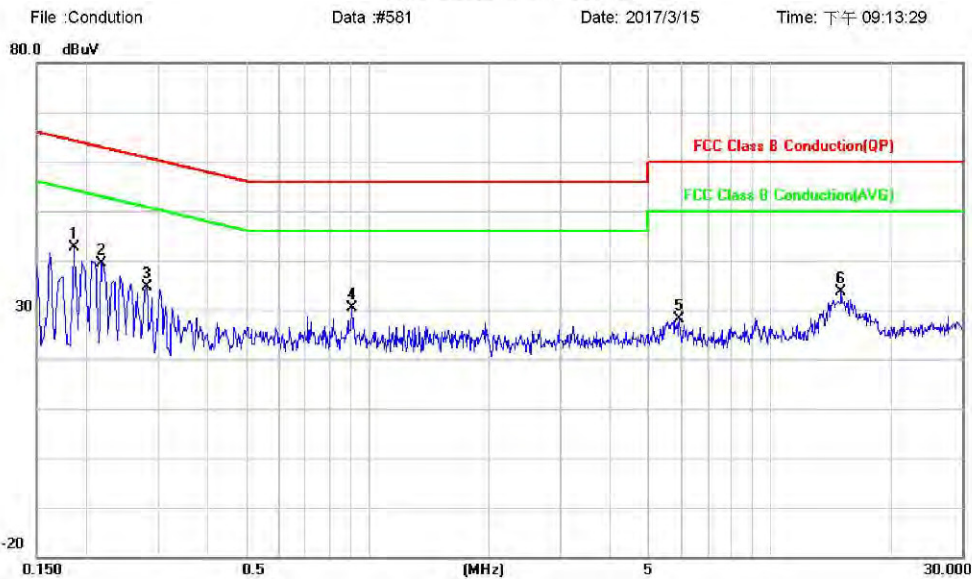
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Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: AQT80
Note:

Phase: **N**
Power: AC 120V/60Hz

Temperature: 19.5 °C
Humidity: 51 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1860	22.74	19.77	42.51	64.21	-21.70	peak	
2		0.2180	19.57	19.78	39.35	62.89	-23.54	peak	
3		0.2820	14.84	19.82	34.66	60.76	-26.10	peak	
4		0.9100	10.37	19.97	30.34	56.00	-25.66	peak	
5		5.9340	8.00	20.09	28.09	60.00	-31.91	peak	
6		15.0140	13.17	20.51	33.68	60.00	-26.32	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:

$$\text{Duty Cycle} = T_{\text{on}} / (T_{\text{on}} + T_{\text{off}})$$

Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) = $10 \cdot \log (1/\text{Duty Cycle})$
802.11a	87.41	0.58
802.11n_20	86.48	0.63
802.11n_40	76.02	1.19

Duty Cycle Factor: $10 \cdot \log(1/0.8741) = 0.58$

Duty Cycle Factor: $10 \cdot \log(1/0.8648) = 0.63$

Duty Cycle Factor: $10 \cdot \log(1/0.7602) = 1.19$

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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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802.11n HT 40



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8. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

8.2 Measurement Procedure

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

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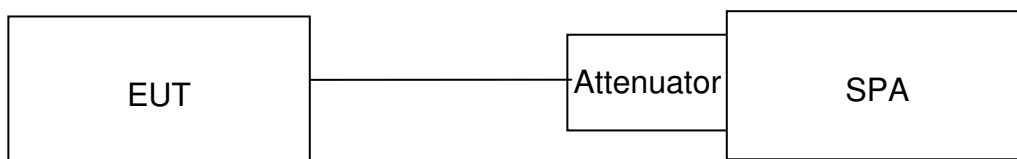
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8.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	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	05/04/2016	05/03/2017

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	21.87	13.398
5220	23.12	13.640
5240	19.96	13.002
5260	22.20	13.464
5300	22.23	13.469
5320	23.58	13.725
5500	21.30	13.284
5580	21.50	13.324
5700	21.67	13.359

802.11n_HT20_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.36	13.495
5220	22.02	13.428
5240	21.84	13.393
5260	24.52	13.895
5300	22.24	13.471
5320	22.84	13.587
5500	22.17	13.458
5580	22.21	13.465
5700	22.00	13.424

802.11n_HT40_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	43.33	16.368
5230	44.02	16.437
5270	45.32	16.563
5310	44.61	16.494
5510	44.17	16.451
5550	43.59	16.394
5670	43.04	16.339

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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	16.37	12.140
5785	16.38	12.143
5825	16.40	12.148

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.62	12.460
5785	17.61	12.458
5825	17.65	12.467

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.14	15.458
5795	35.15	15.459

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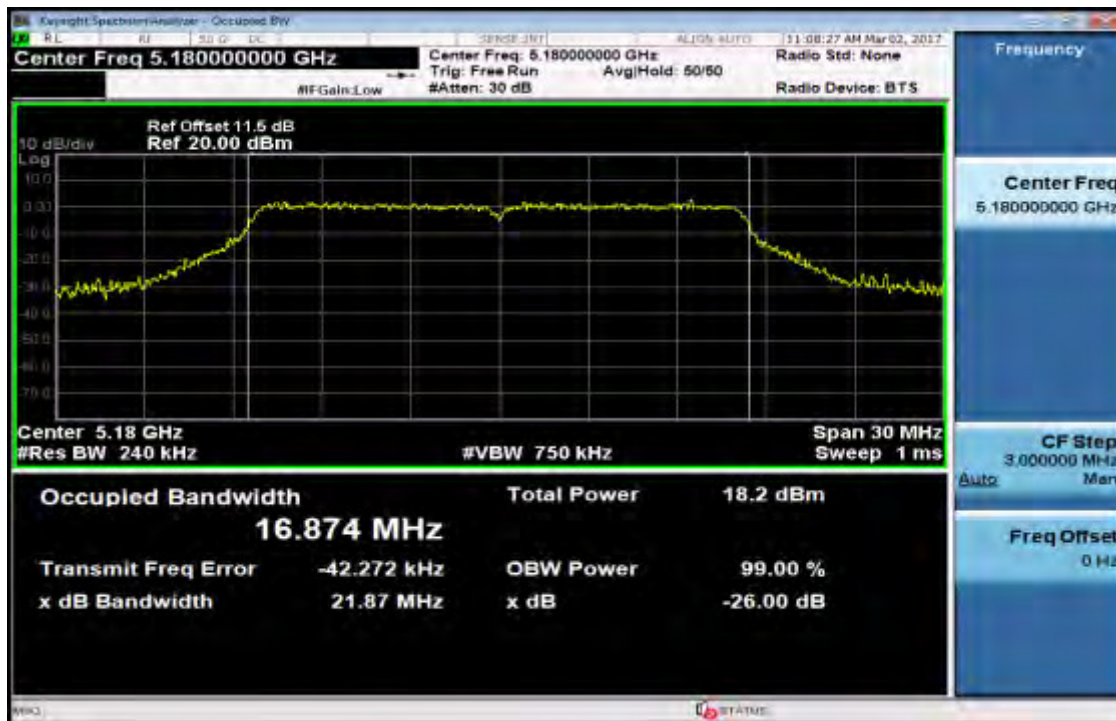
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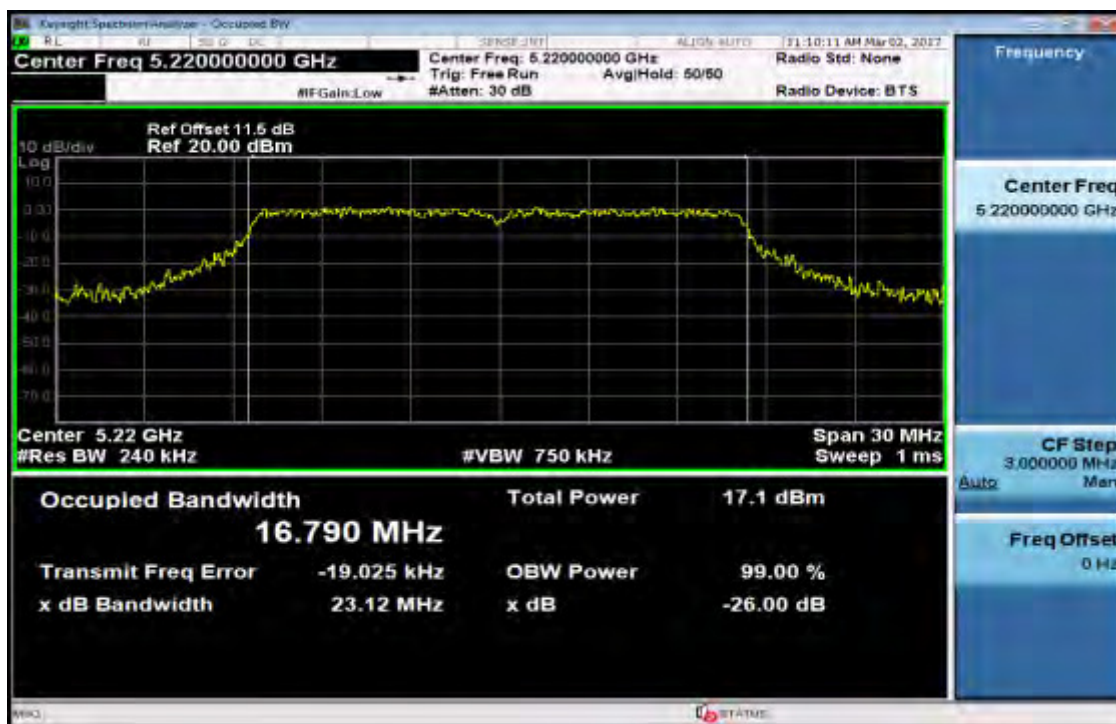
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802.11a, 5150~5250 MHz (Main)

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



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



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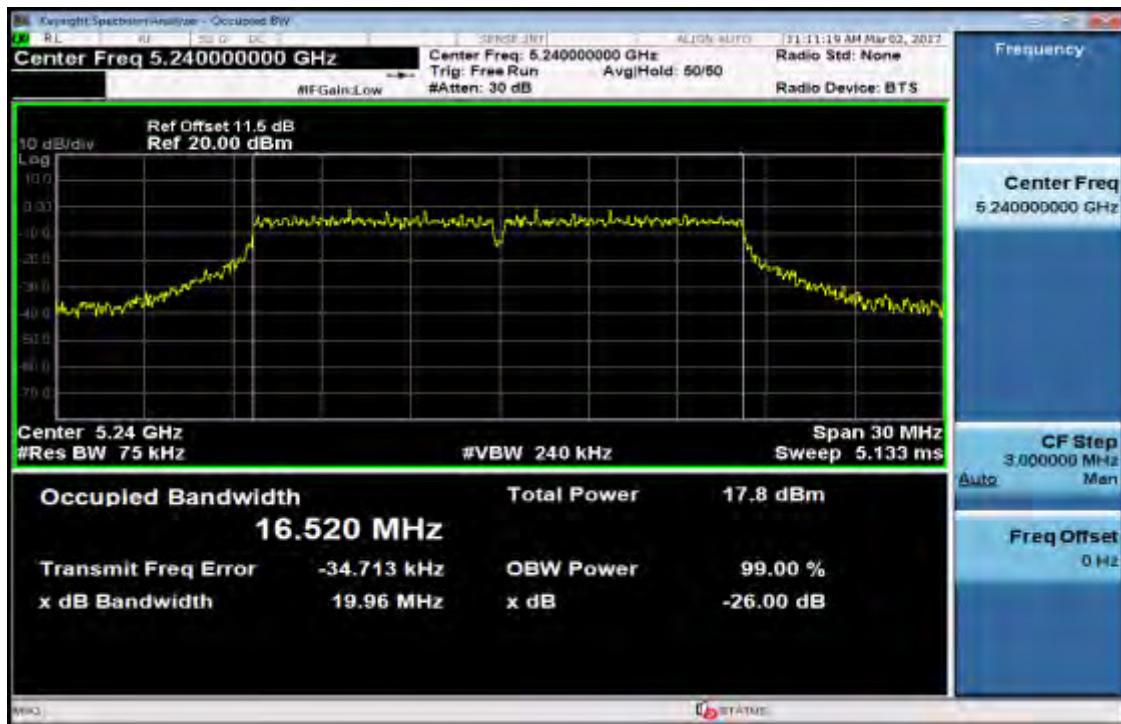
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26dB Band Width Test Data CH-High (5240MHz)



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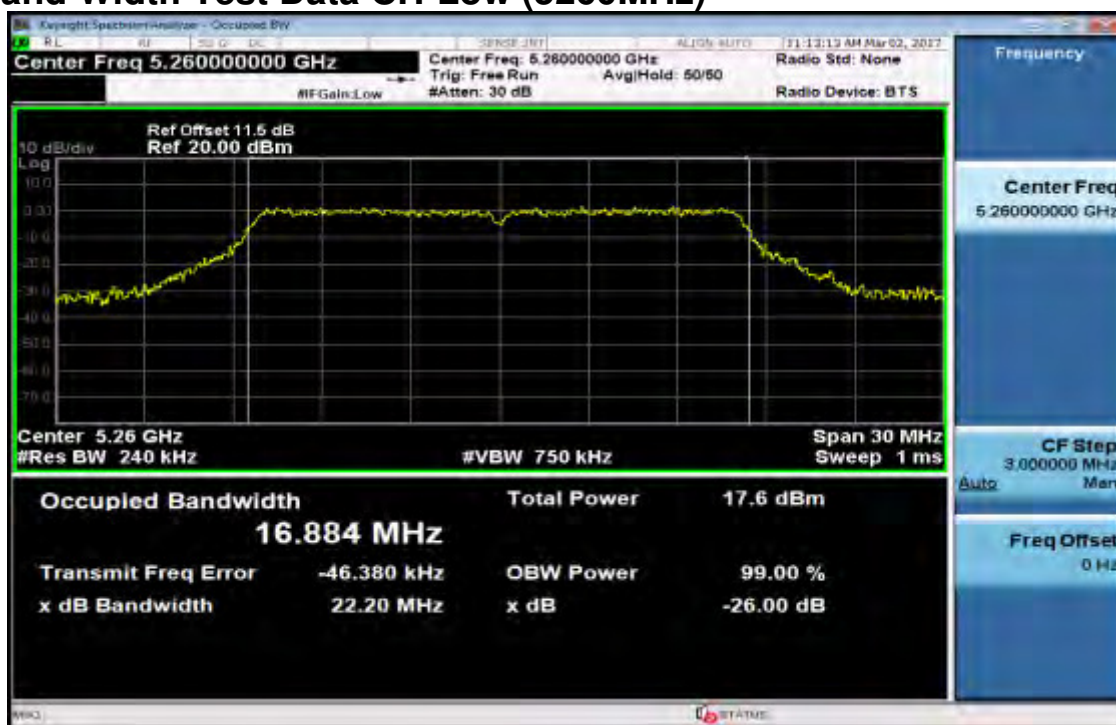
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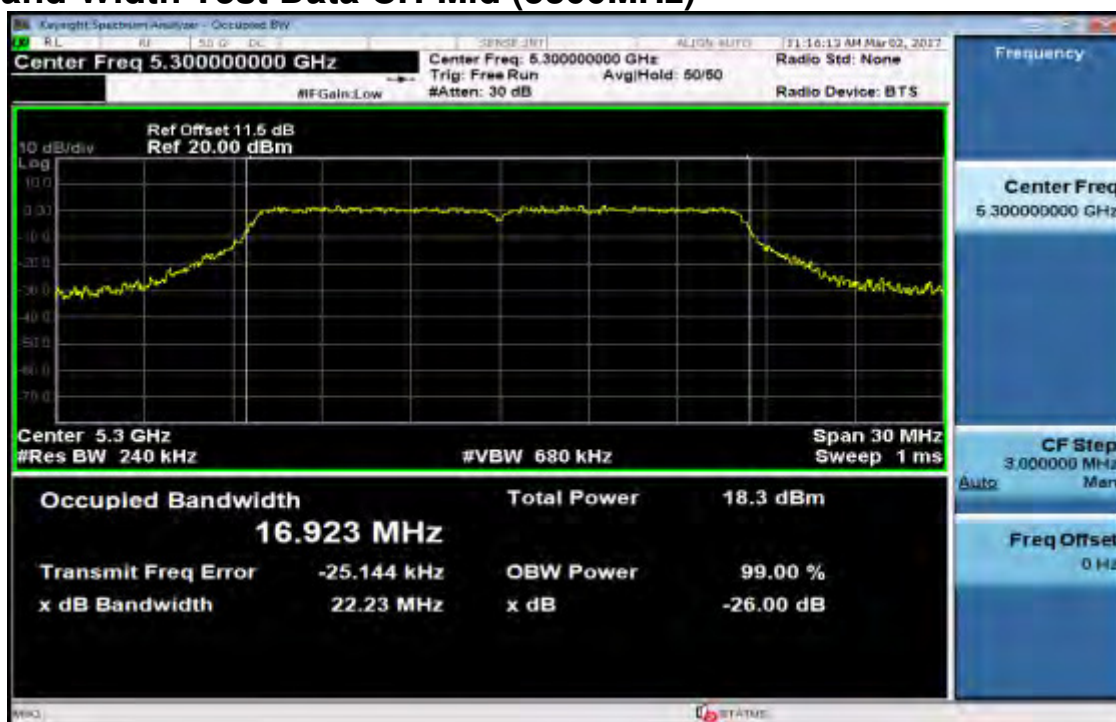
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802.11a, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5260MHz)



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



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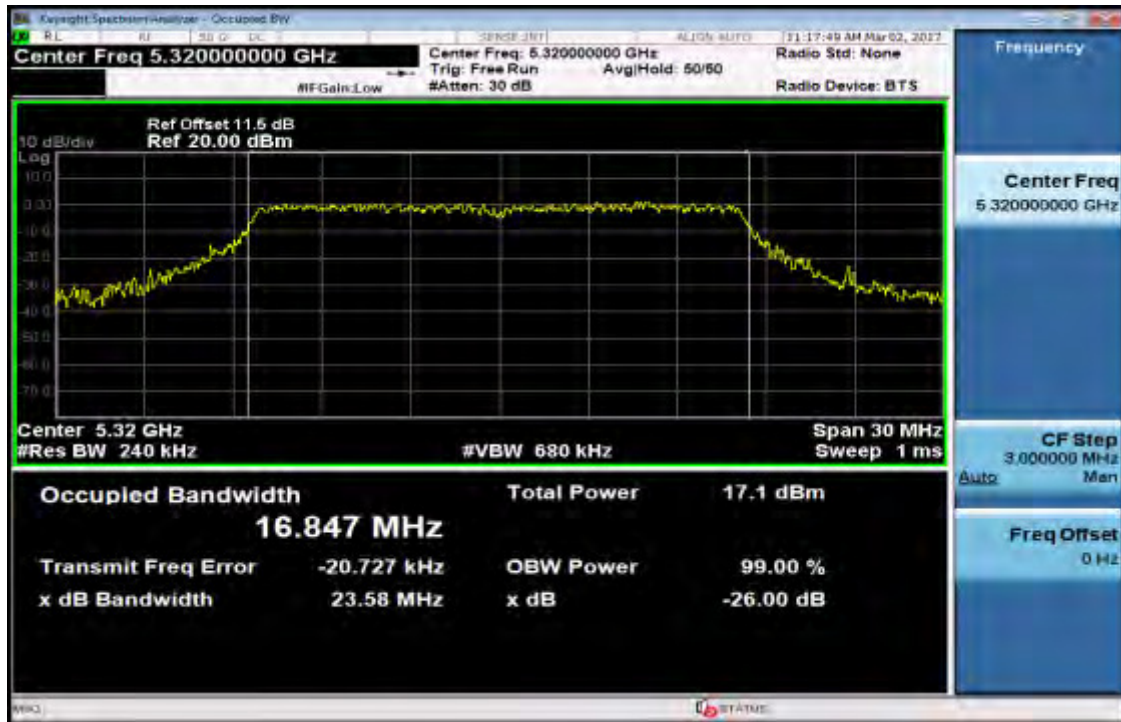
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26dB Band Width Test Data CH-High (5320MHz)



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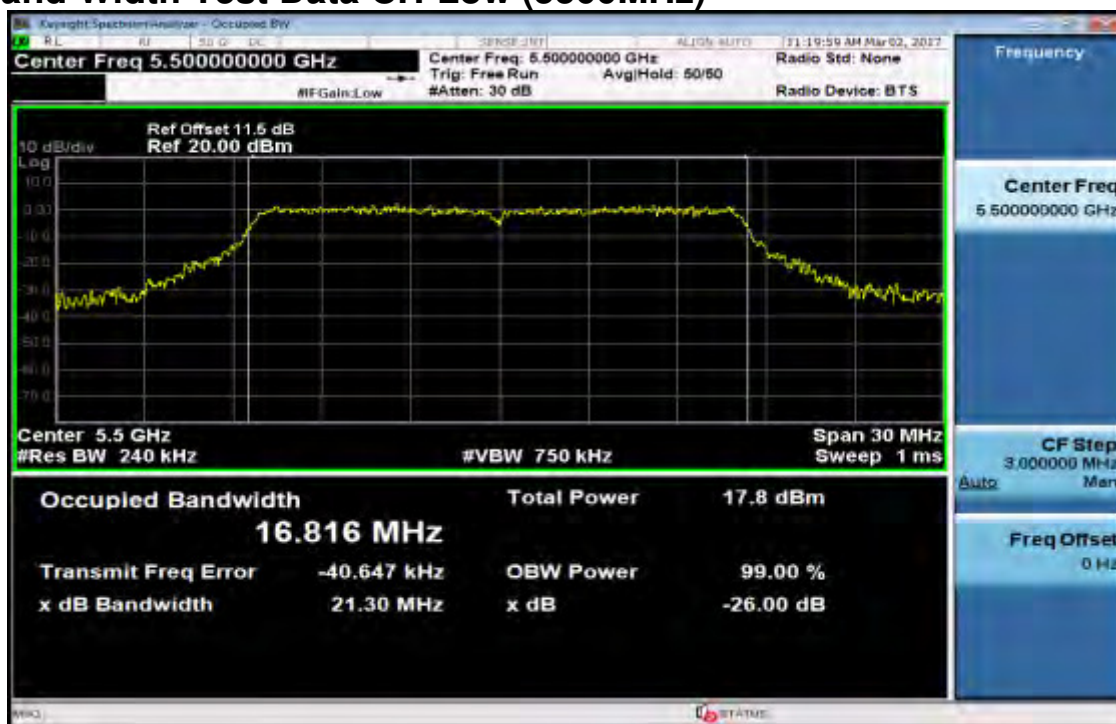
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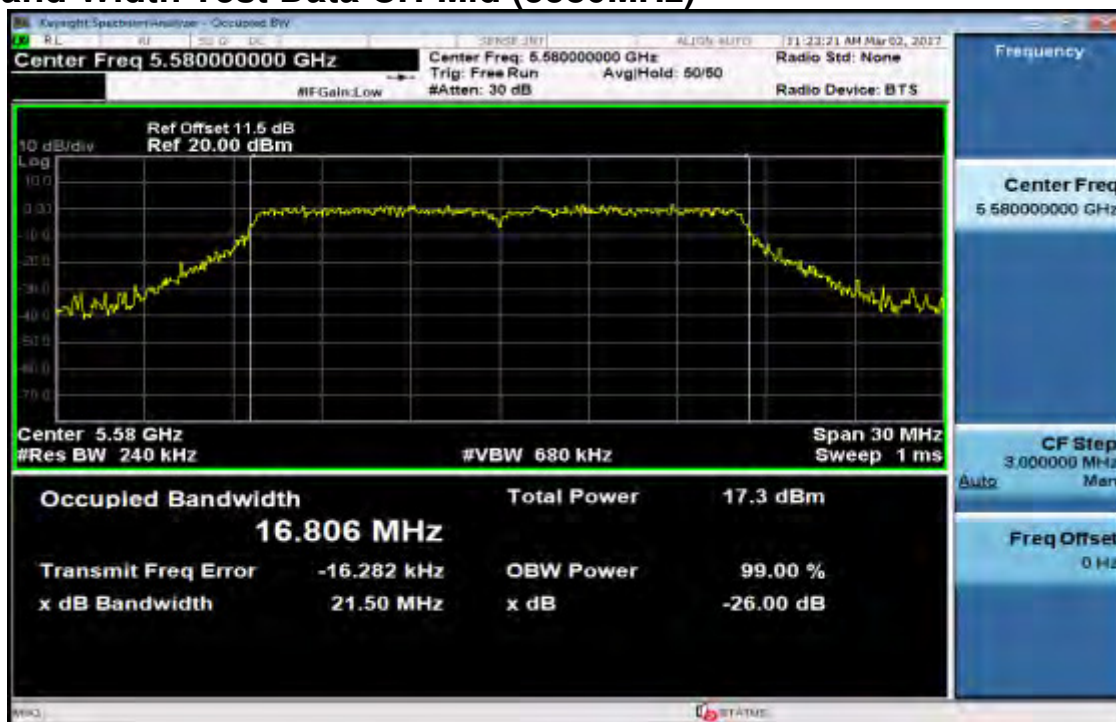
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802.11a, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500MHz)



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



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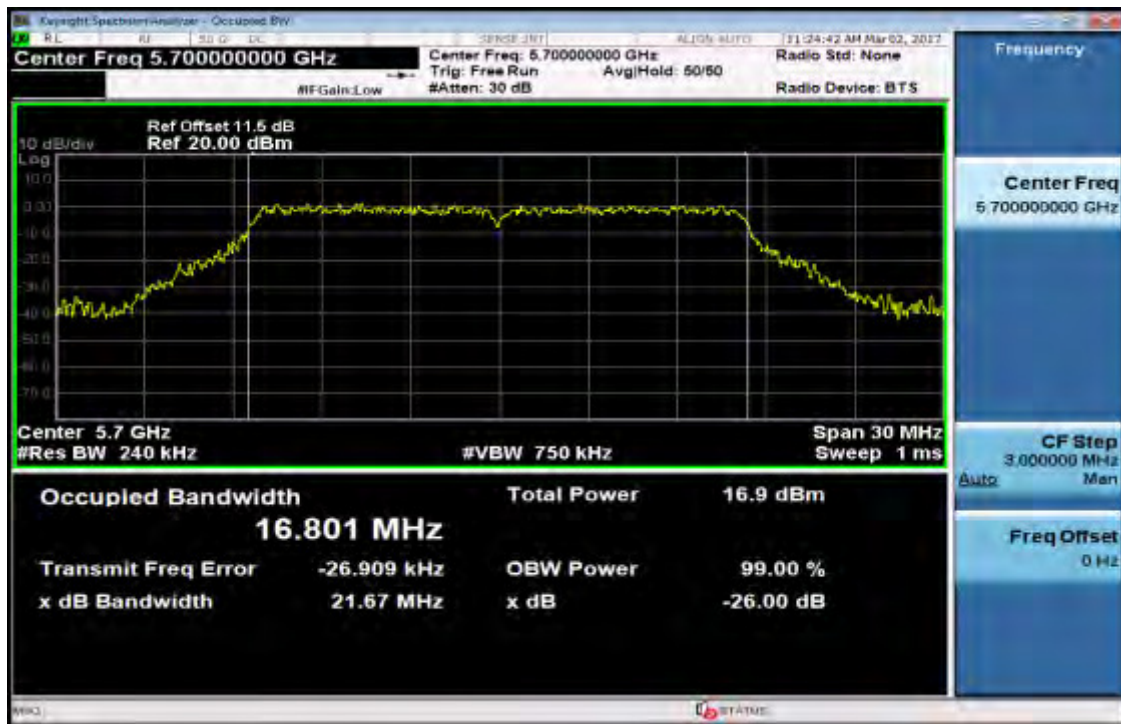
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26dB Band Width Test Data CH-High (5700MHz)



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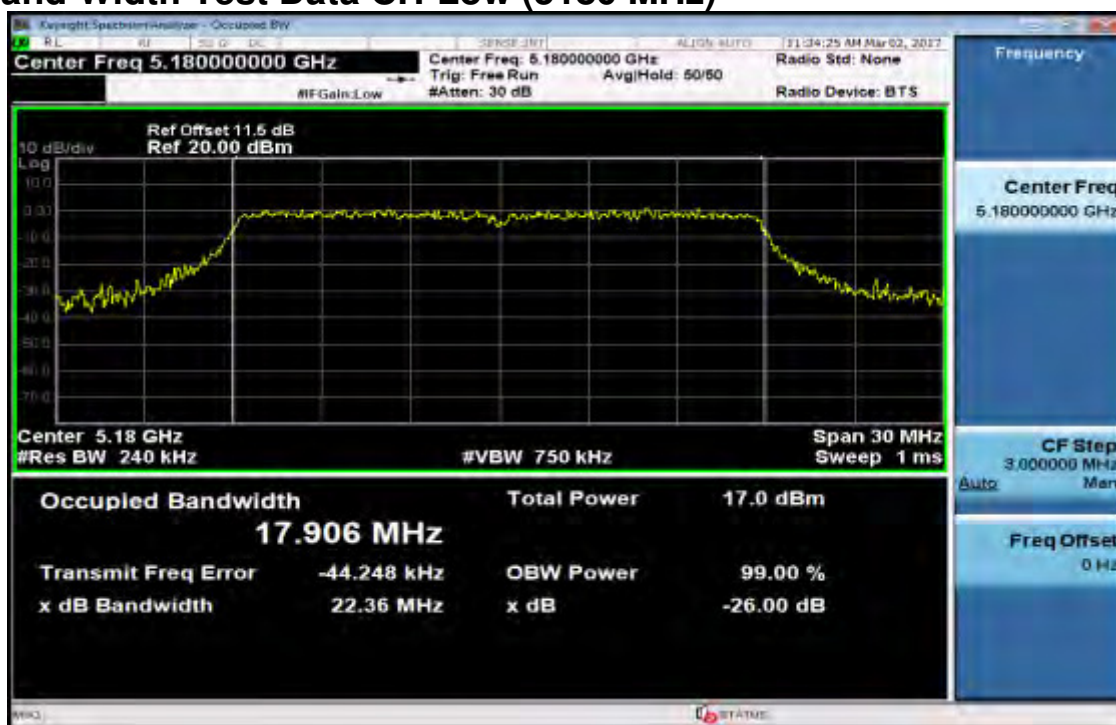
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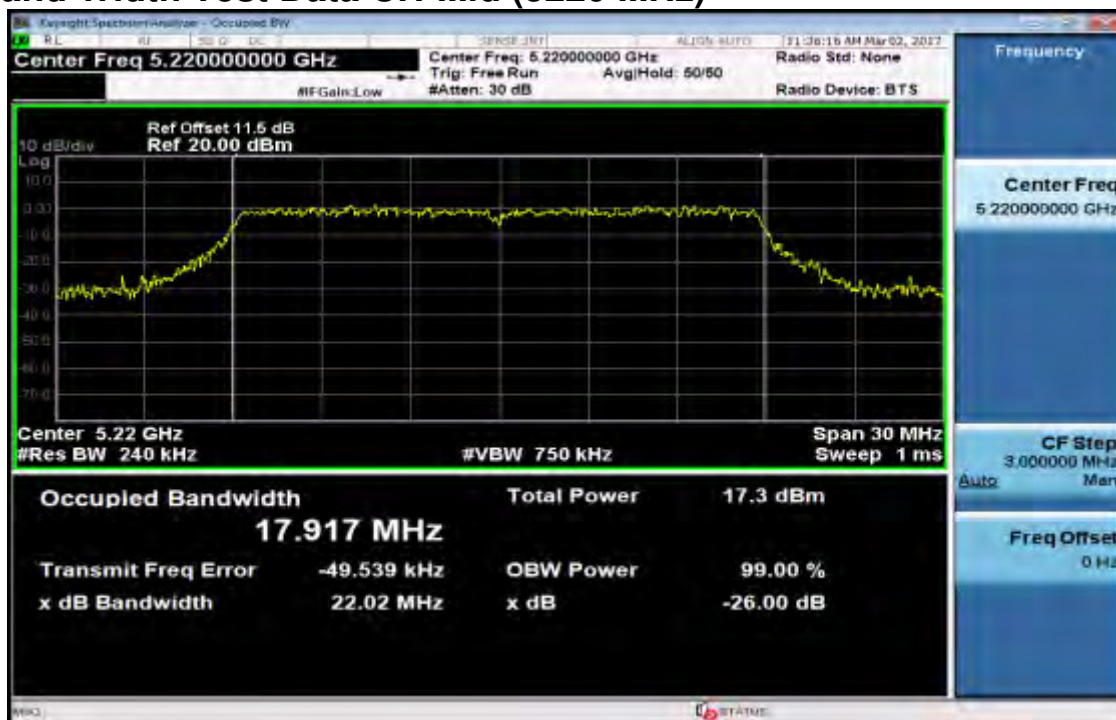
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802.11n HT20, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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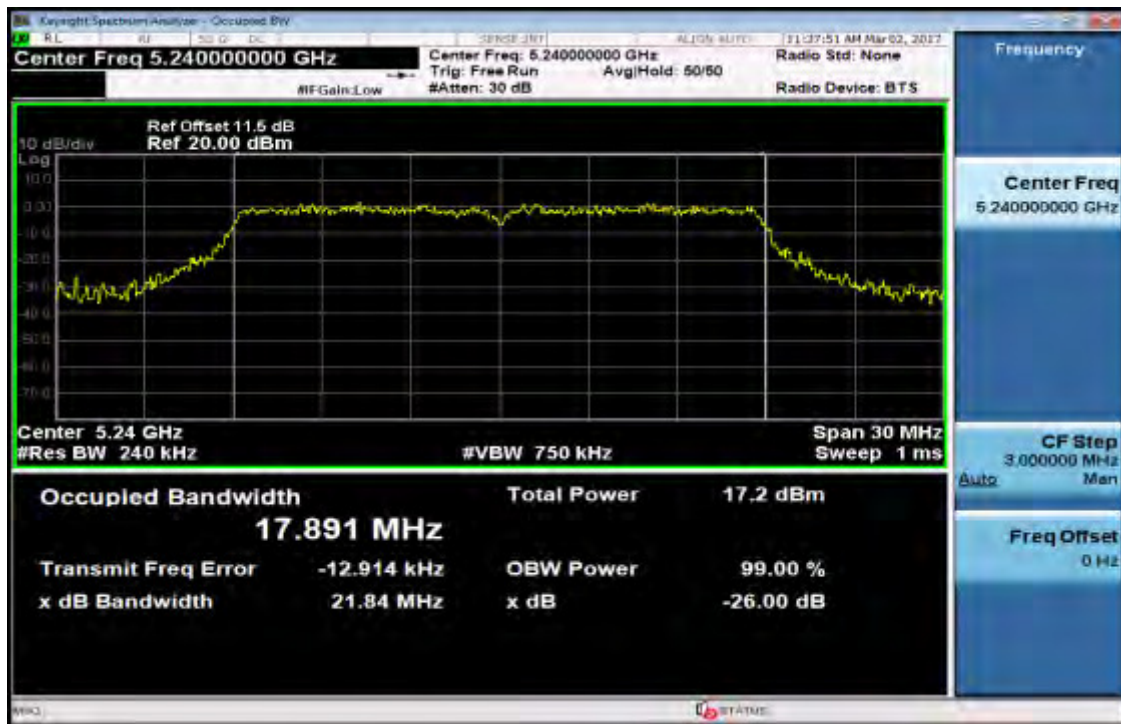
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26dB Band Width Test Data CH-High (5240 MHz)



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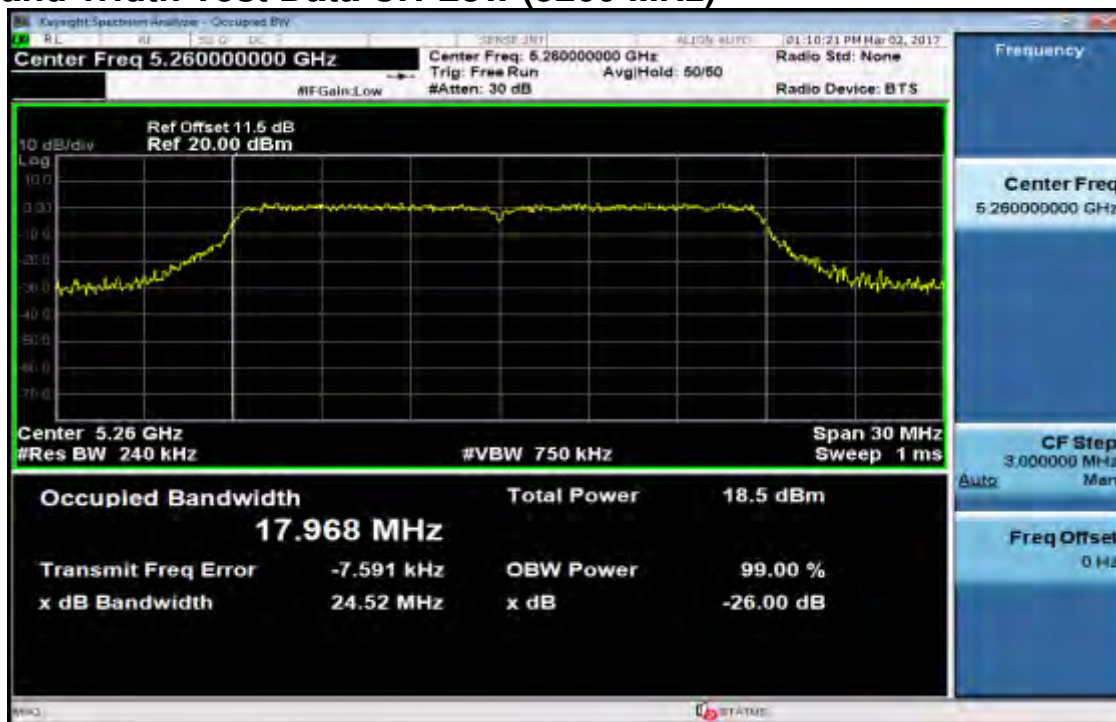
t (886-2) 2299-3279

f (886-2) 2298-0488

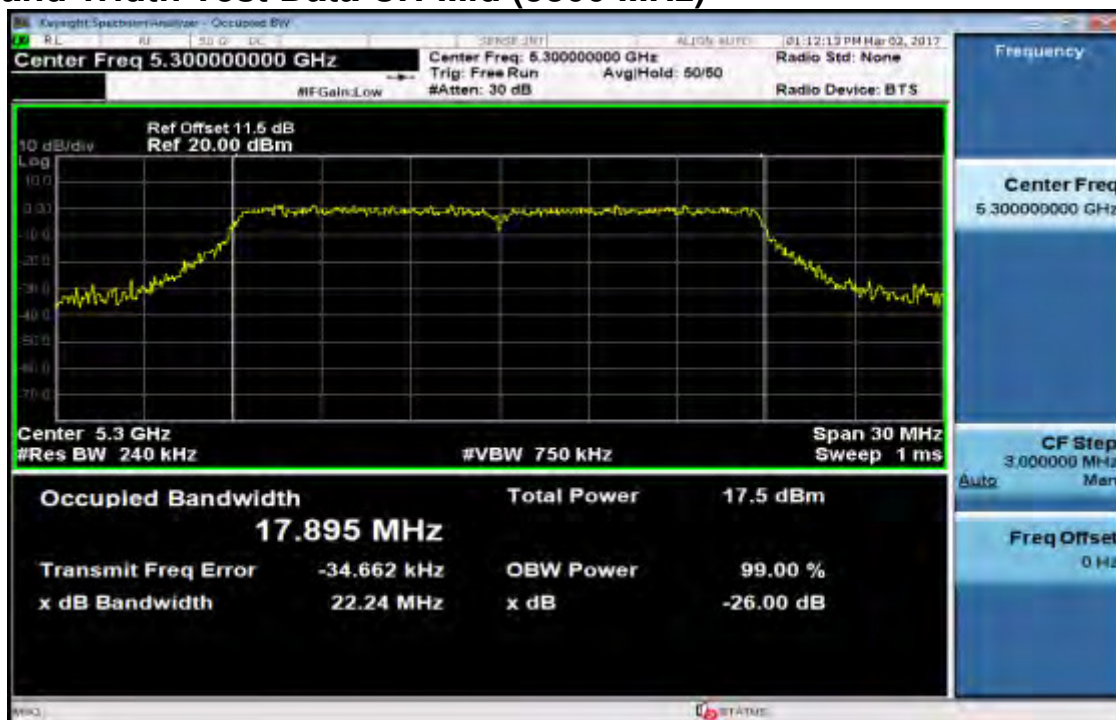
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802.11n HT20, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5260 MHz)



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



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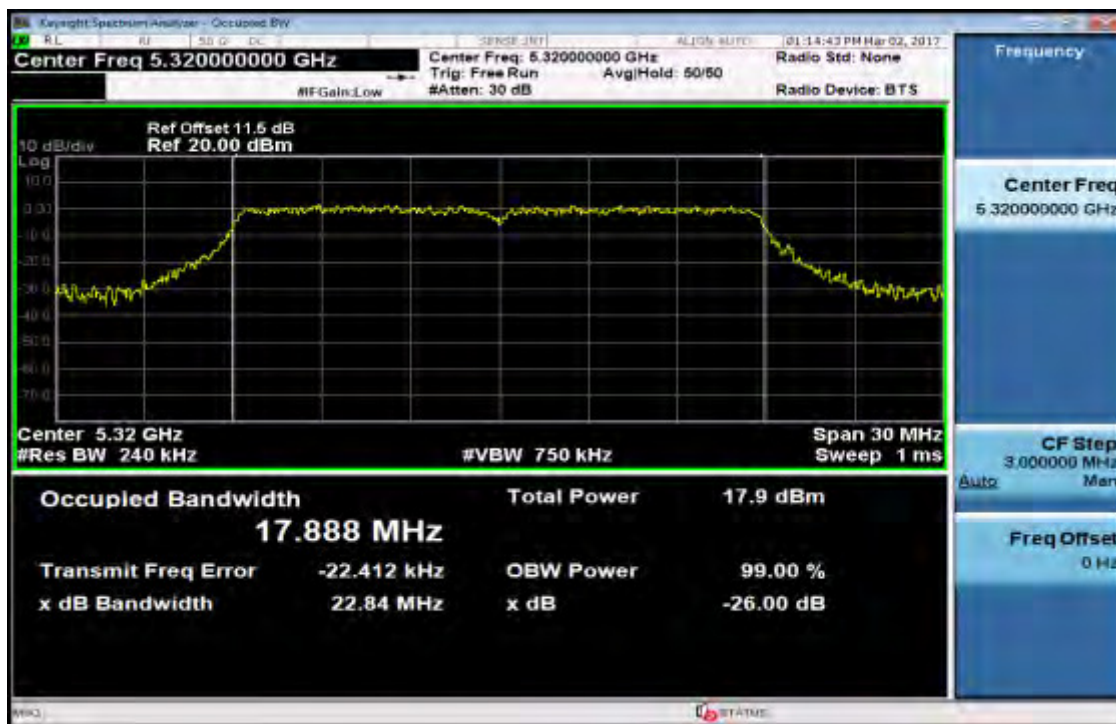
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26dB Band Width Test Data CH-High (5320 MHz)



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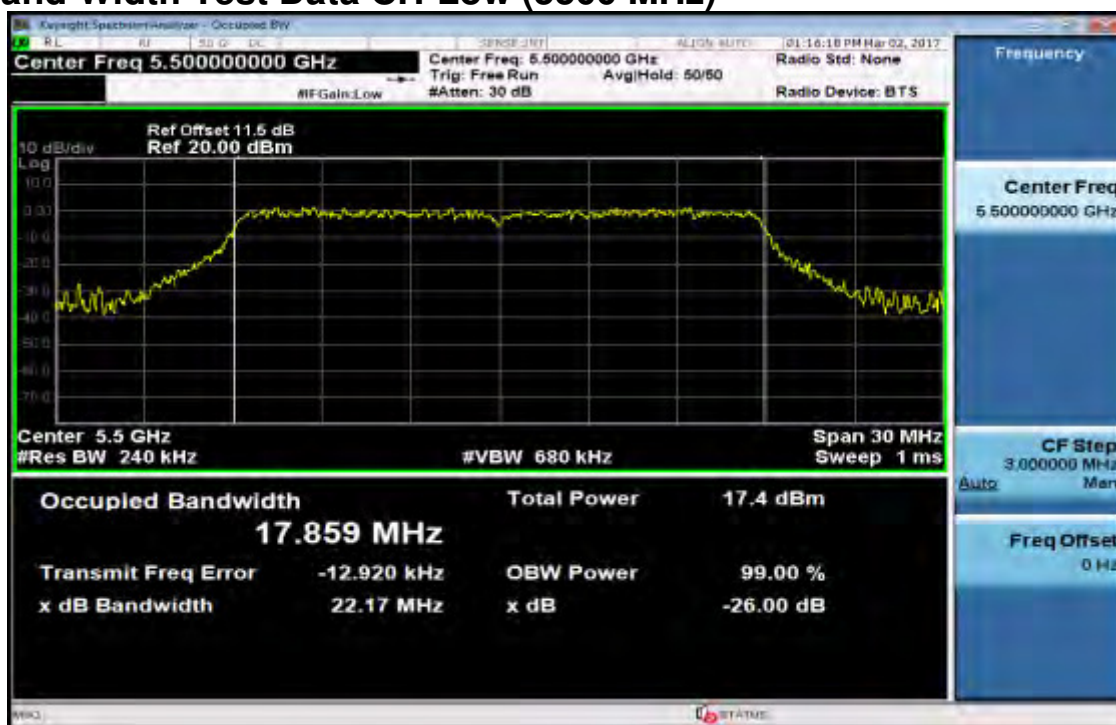
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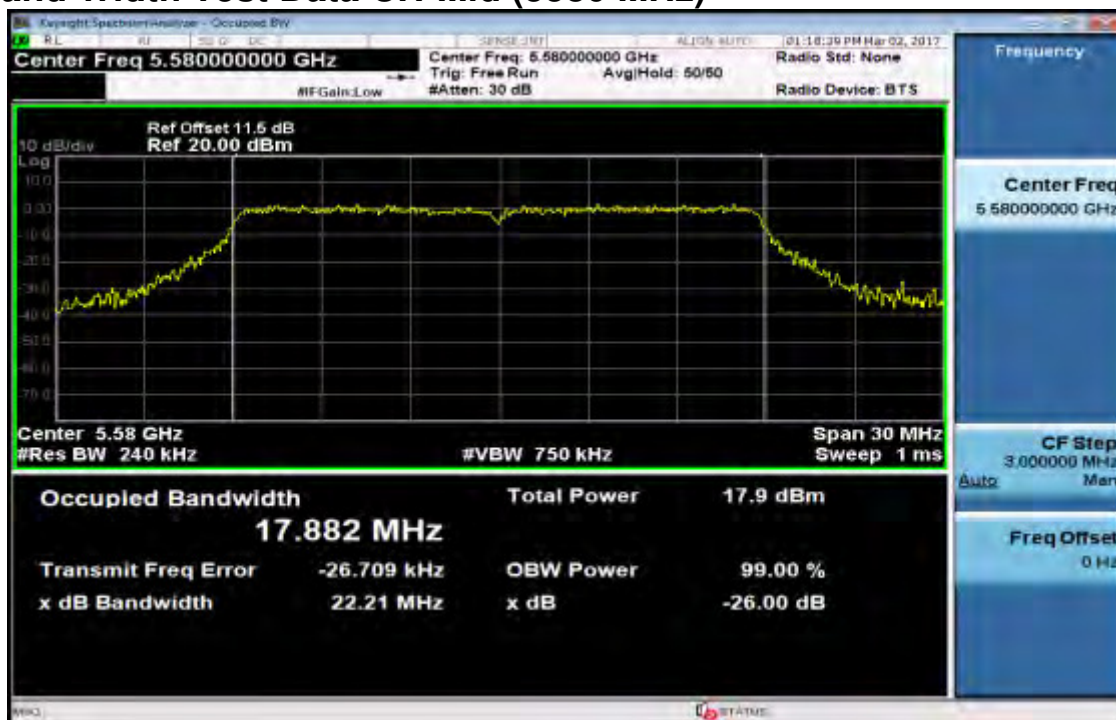
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802.11n HT20, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500 MHz)



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



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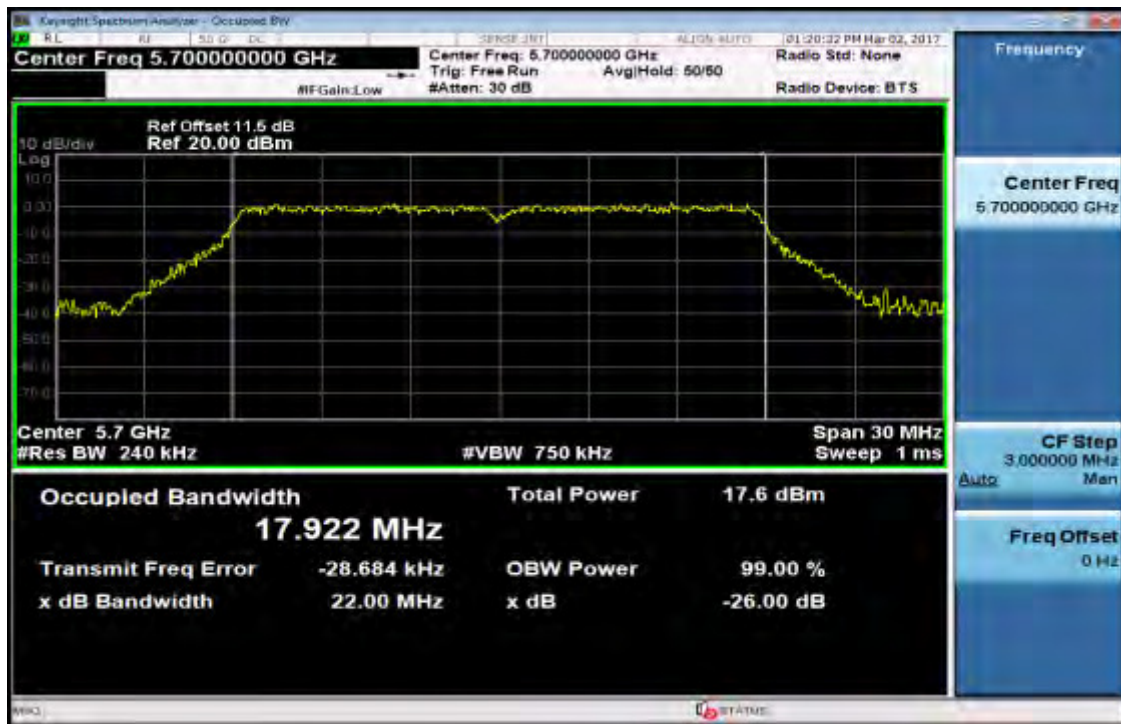
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26dB Band Width Test Data CH-High (5700 MHz)



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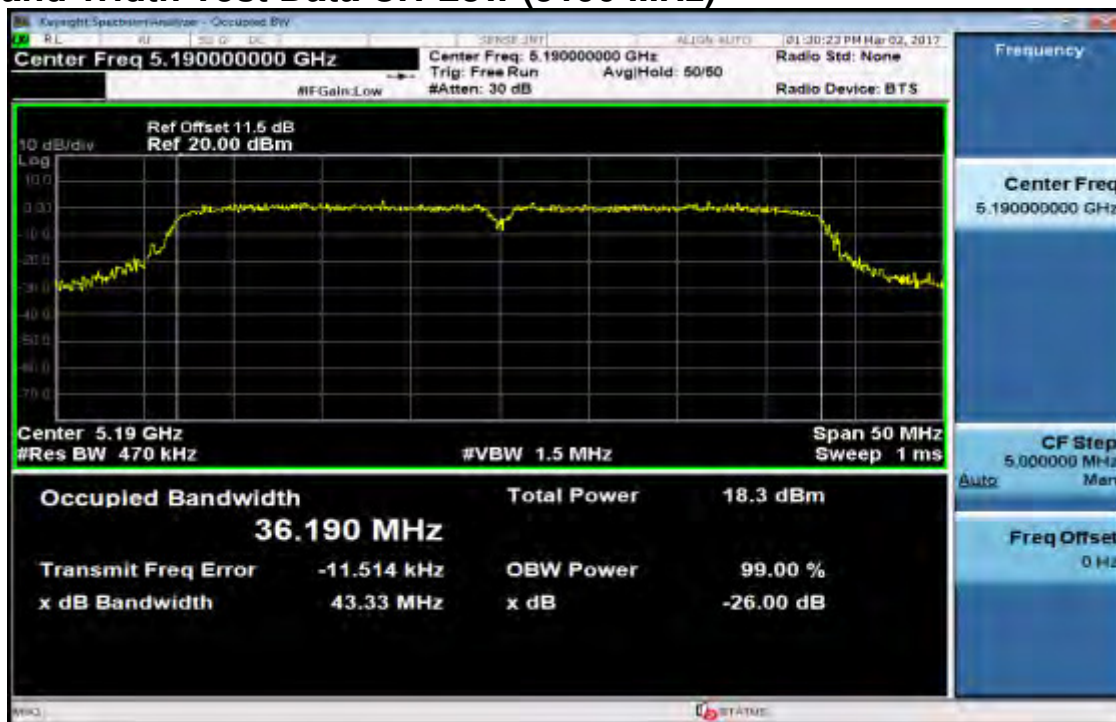
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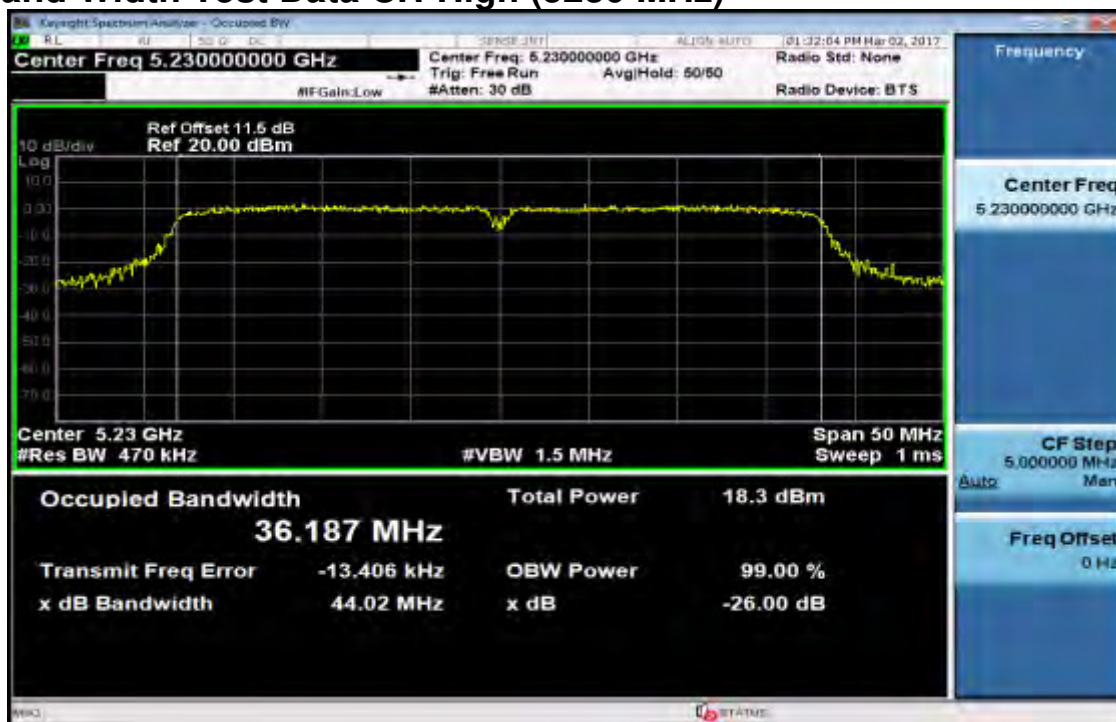
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802.11n HT40, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5190 MHz)



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



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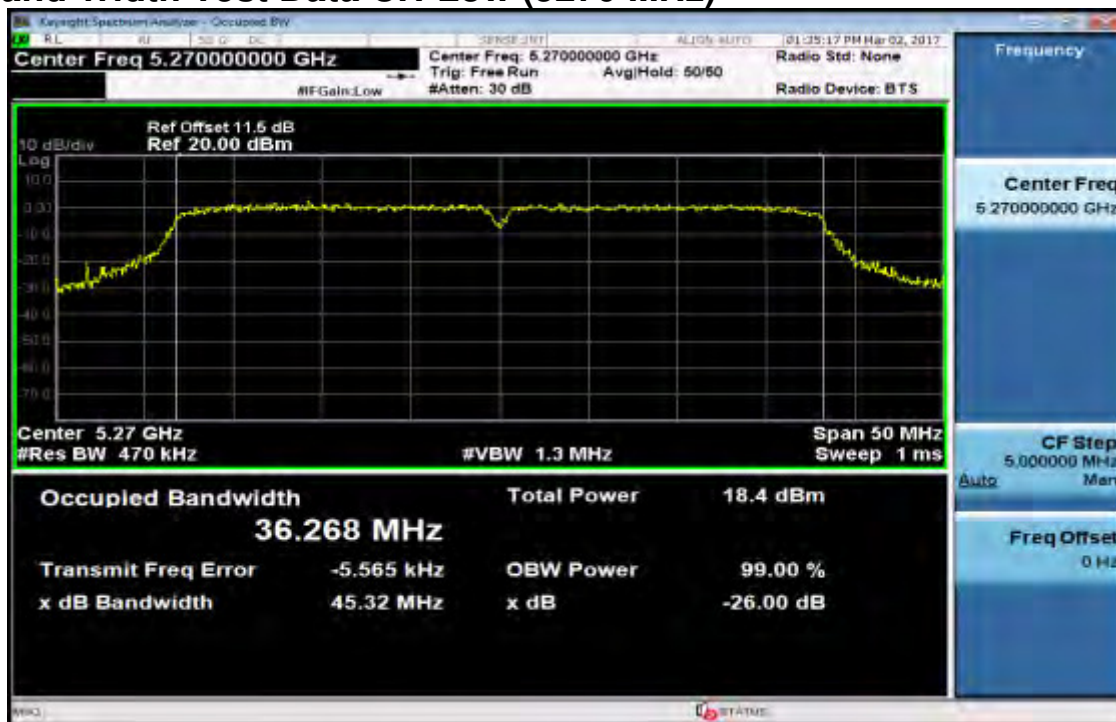
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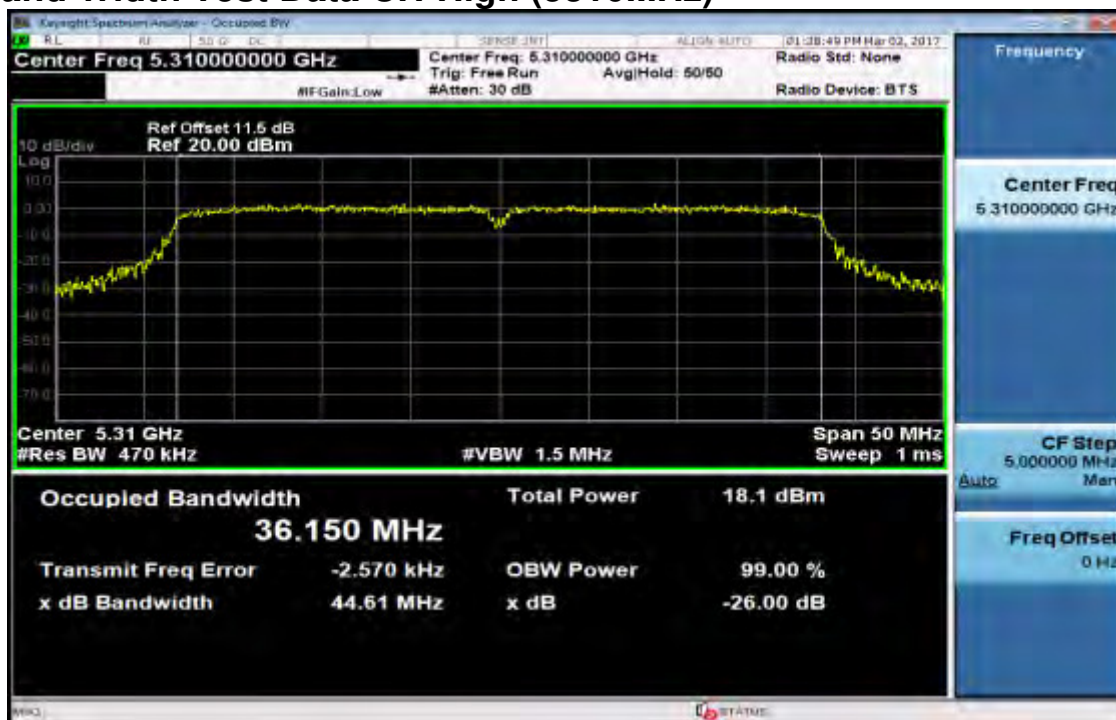
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802.11n HT40, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5270 MHz)



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



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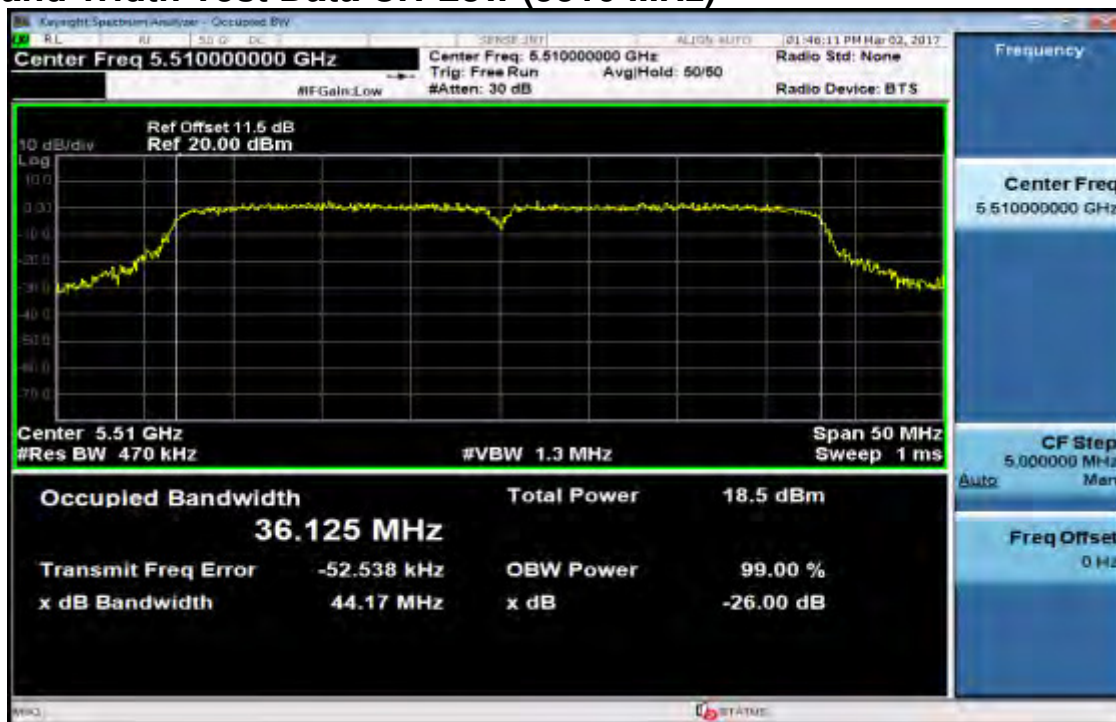
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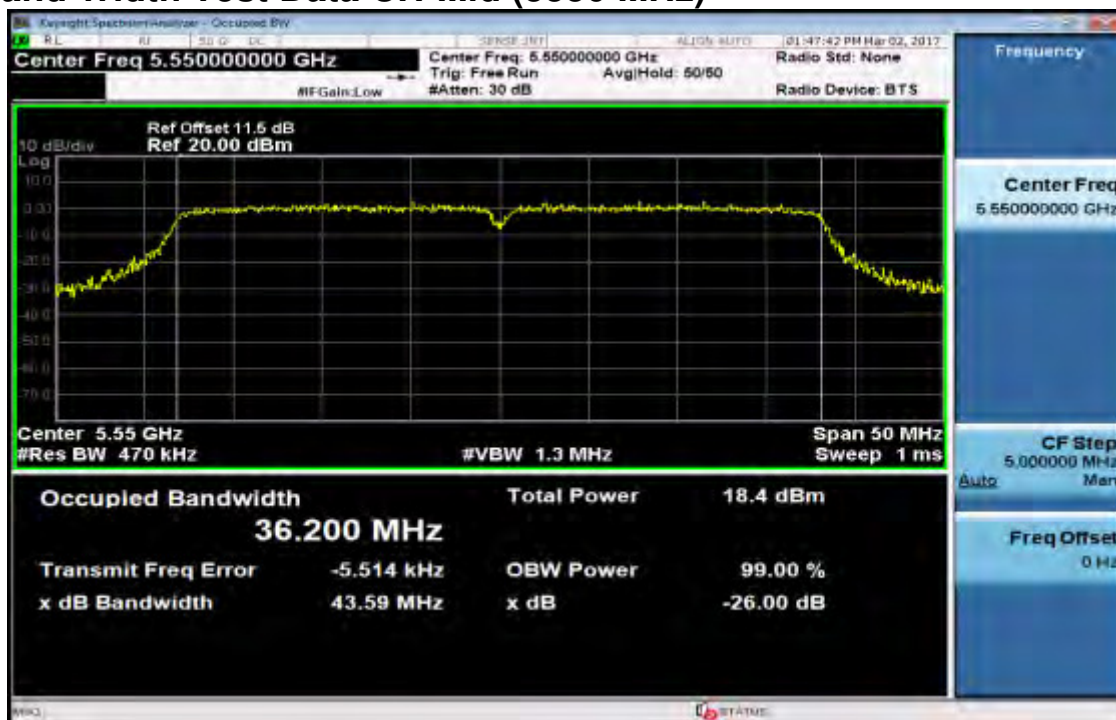
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802.11n HT40, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5510 MHz)



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



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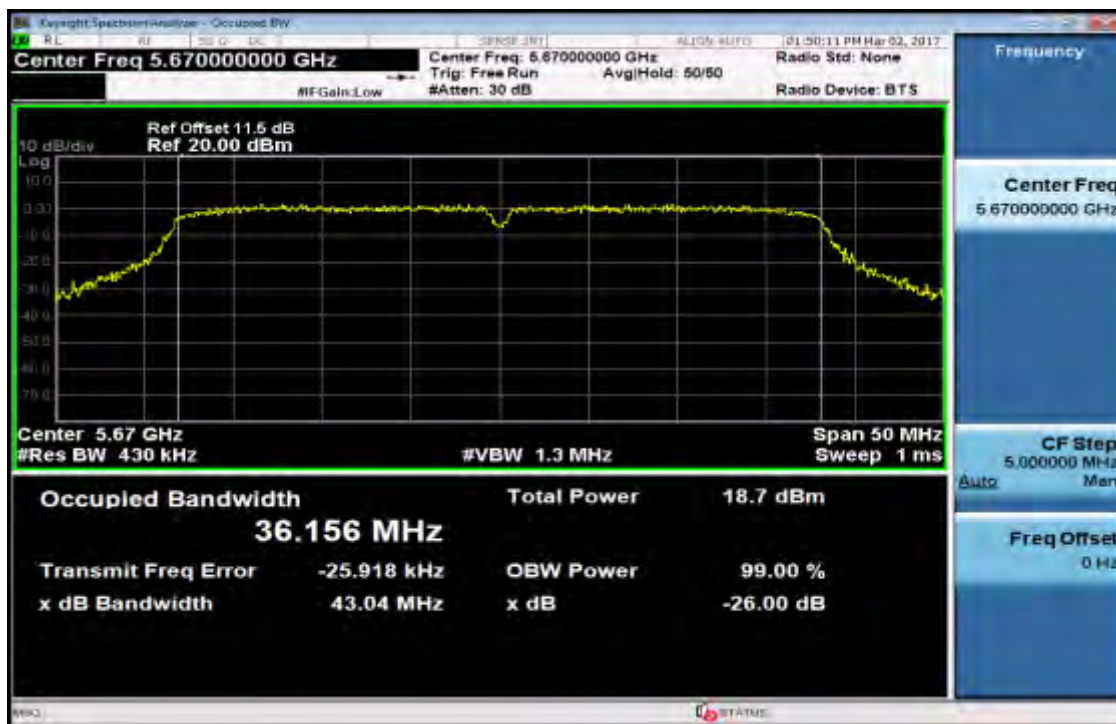
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26dB Band Width Test Data CH-High (5670 MHz)



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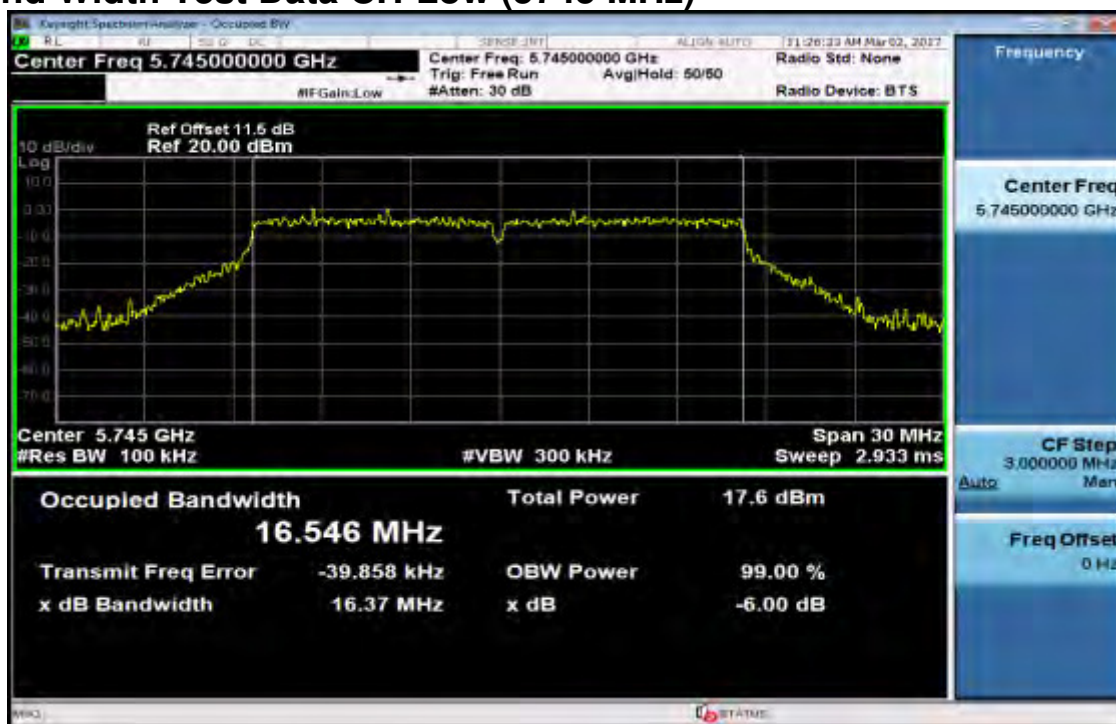
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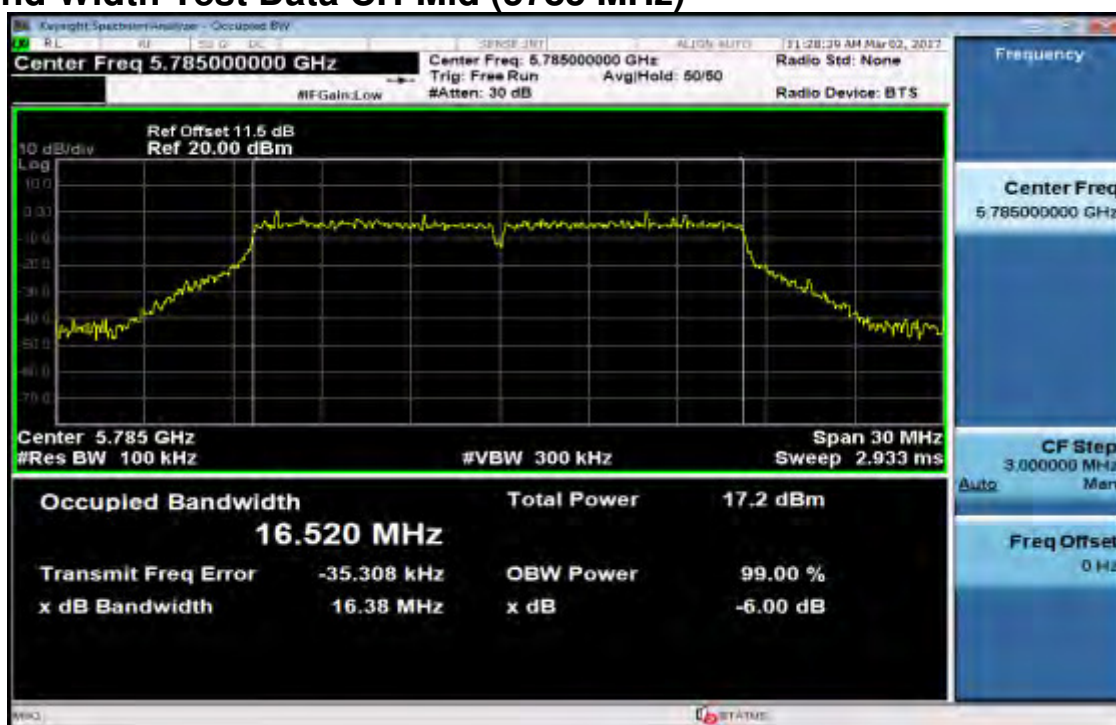
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802.11a, 5725~5850 MHz (Main)

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



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



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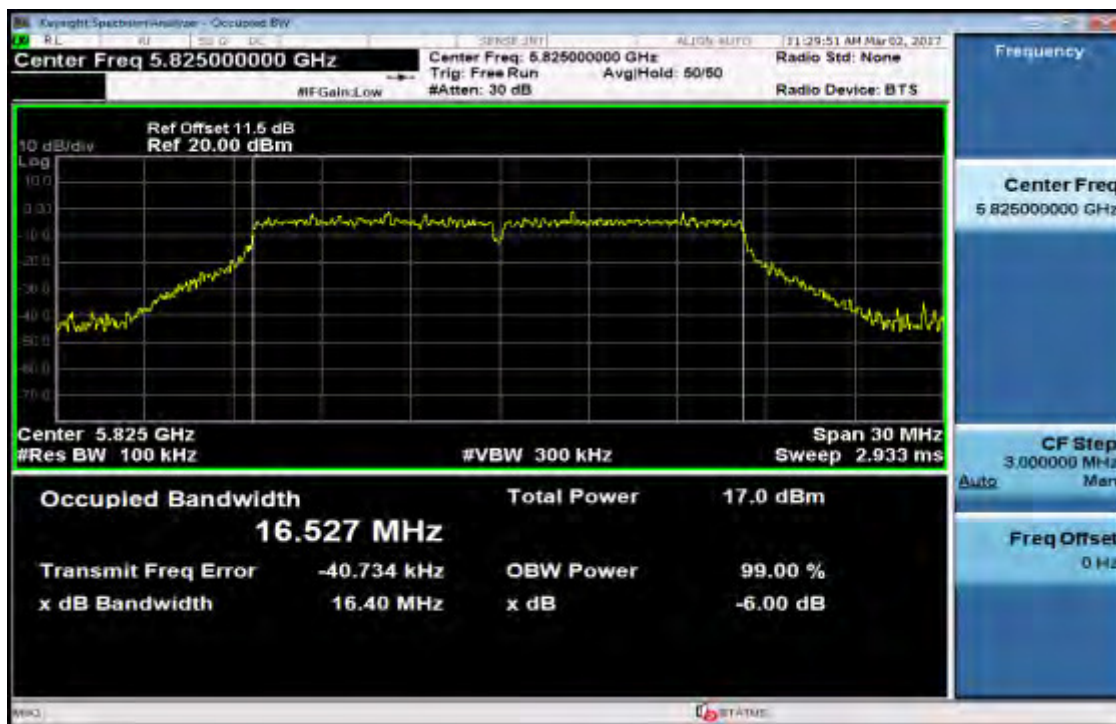
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6dB Band Width Test Data CH-High (5825 MHz)



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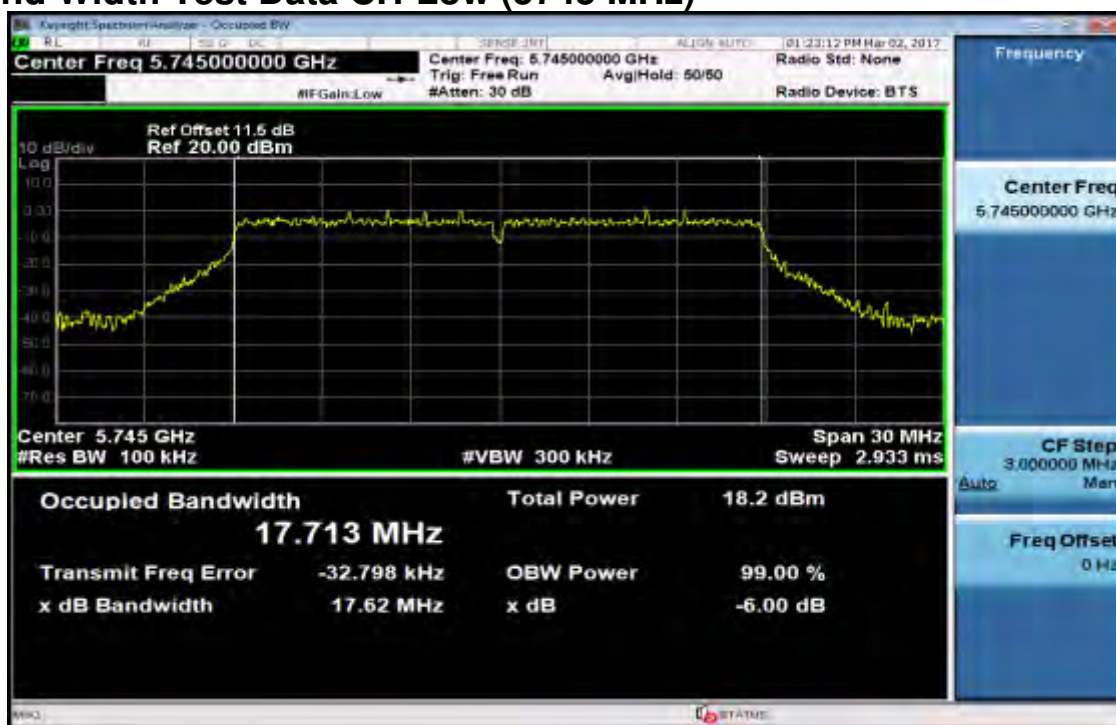
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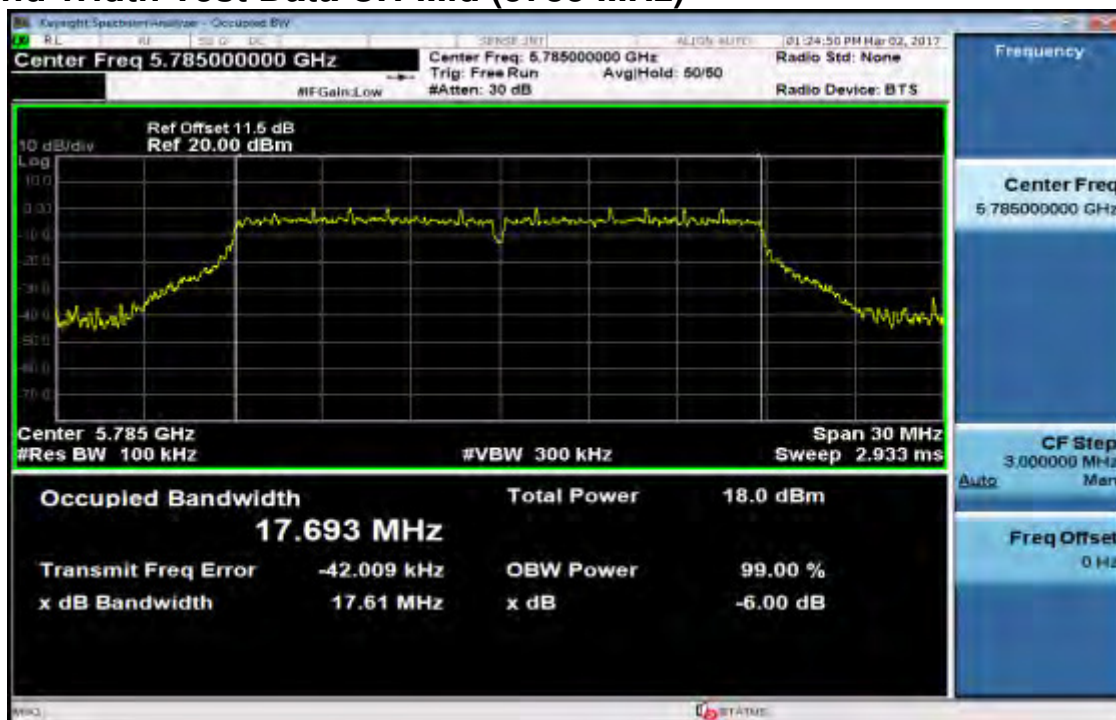
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802.11n_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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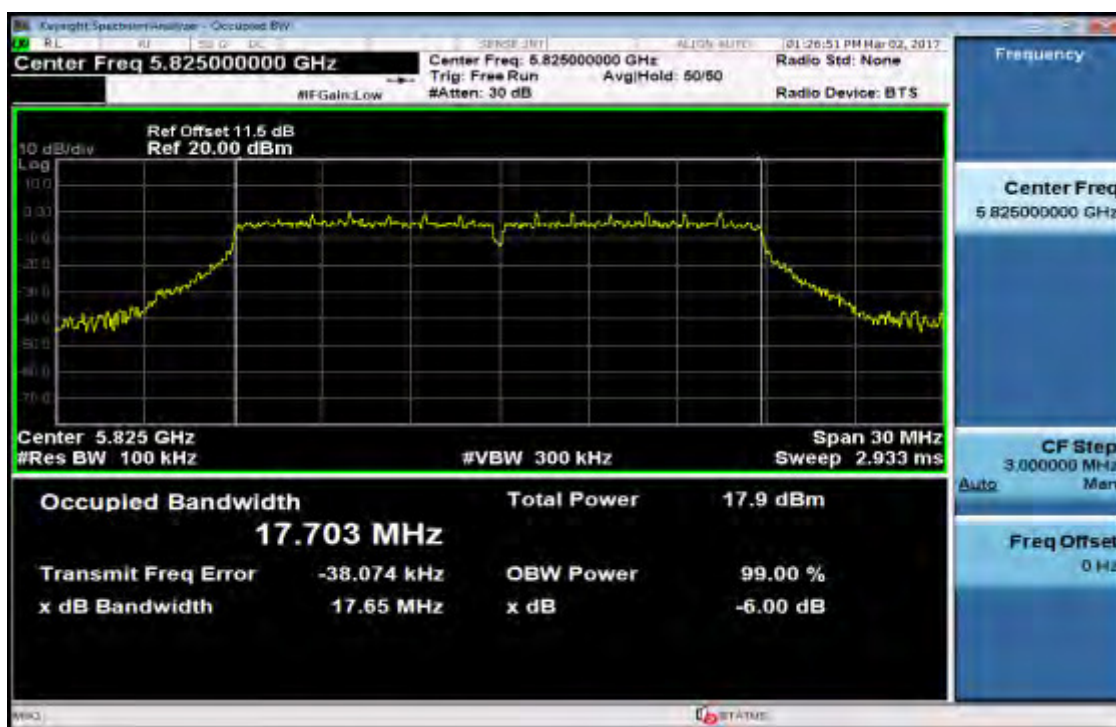
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6dB Band Width Test Data CH-High (5825 MHz)



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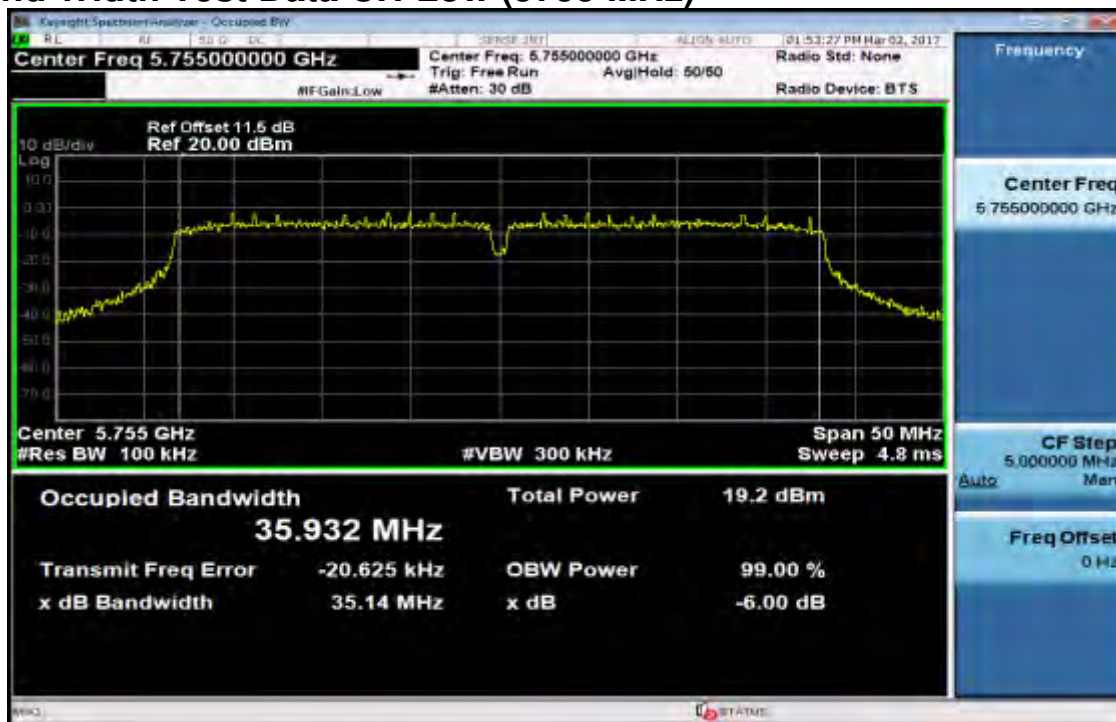
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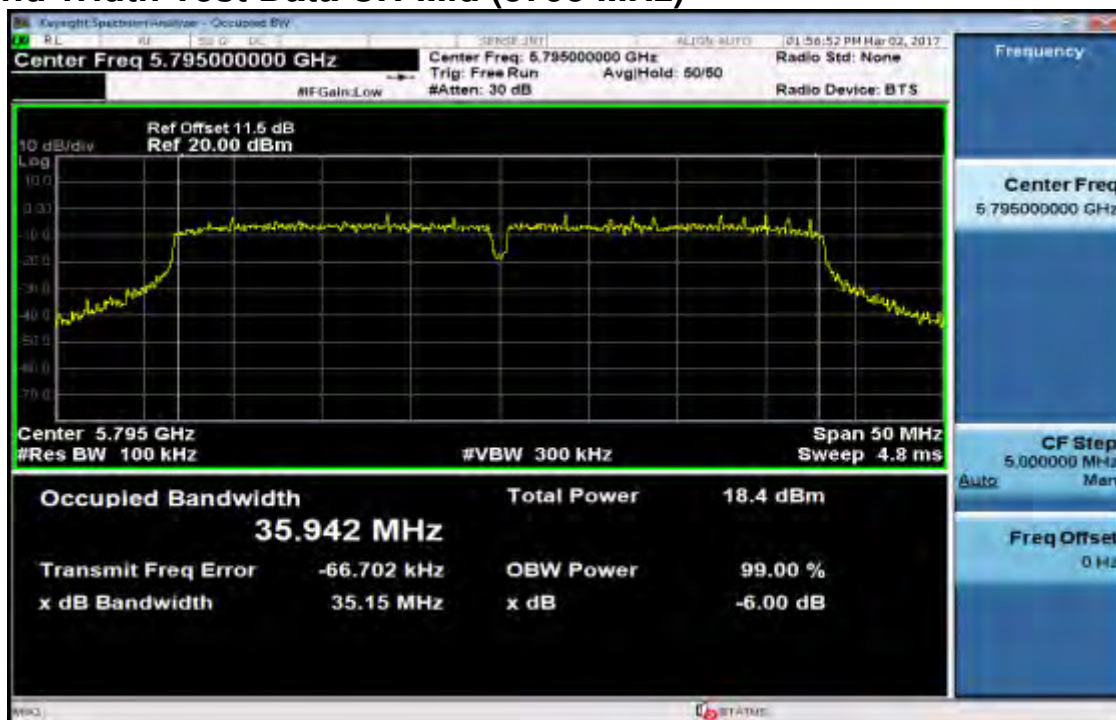
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802.11n_HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

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

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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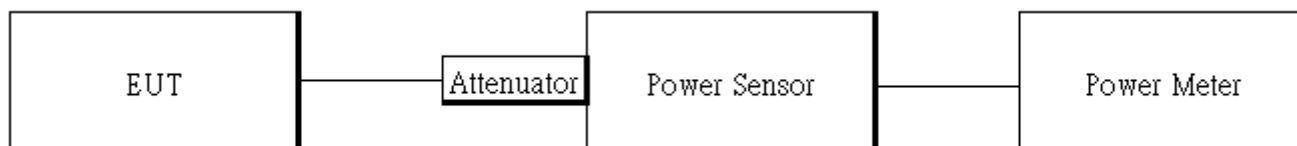
9.2 Measurement Procedure

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

9.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBDA	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	05/04/2016	05/03/2017

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power

802.11a_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	16.75	47.315	23.98	PASS
44	5220	MCS0	16.97	49.774	23.98	PASS
48	5240	MCS0	16.93	49.317	23.98	PASS
52	5260	MCS0	16.78	47.643	23.98 or $11+10\log(B) = 24.46$	PASS
60	5300	MCS0	16.76	47.424	23.98 or $11+10\log(B) = 24.47$	PASS
64	5320	MCS0	16.78	47.643	23.98 or $11+10\log(B) = 24.73$	PASS
100	5500	MCS0	16.97	49.774	23.98 or $11+10\log(B) = 24.28$	PASS
116	5580	MCS0	16.92	49.204	23.98 or $11+10\log(B) = 24.32$	PASS
140	5700	MCS0	16.71	46.881	23.98 or $11+10\log(B) = 24.36$	PASS
149	5745	MCS0	16.83	48.195	30	PASS
157	5785	MCS0	16.96	49.659	30	PASS
165	5825	MCS0	16.94	49.431	30	PASS

802.11n_HT20_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	16.76	47.424	23.98	PASS
44	5220	MCS0	16.84	48.306	23.98	PASS
48	5240	MCS0	16.85	48.417	23.98	PASS
52	5260	MCS0	16.98	49.888	23.98 or $11+10\log(B) = 24.90$	PASS
60	5300	MCS0	16.82	48.084	23.98 or $11+10\log(B) = 24.47$	PASS
64	5320	MCS0	16.71	46.881	23.98 or $11+10\log(B) = 24.59$	PASS
100	5500	MCS0	16.72	46.989	23.98 or $11+10\log(B) = 24.46$	PASS
116	5580	MCS0	16.92	49.204	23.98 or $11+10\log(B) = 24.47$	PASS
140	5700	MCS0	16.78	47.643	23.98 or $11+10\log(B) = 24.42$	PASS
149	5745	MCS0	16.91	49.091	30	PASS
157	5785	MCS0	16.88	48.753	30	PASS
165	5825	MCS0	16.97	49.774	30	PASS

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802.11n_HT40_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	16.78	47.643	23.98	PASS
46	5230	MCS0	16.78	47.643	23.98	PASS
54	5270	MCS0	16.58	45.499	23.98 or $11+10\log(B) = 27.56$	PASS
62	5310	MCS0	16.77	47.534	23.98 or $11+10\log(B) = 27.49$	PASS
102	5510	MCS0	16.96	49.659	23.98 or $11+10\log(B) = 27.45$	PASS
110	5550	MCS0	16.97	49.774	23.98 or $11+10\log(B) = 27.39$	PASS
134	5670	MCS0	16.72	46.989	23.98 or $11+10\log(B) = 27.34$	PASS
151	5755	MCS0	16.84	48.306	30	PASS
159	5795	MCS0	16.86	48.529	30	PASS

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

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

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

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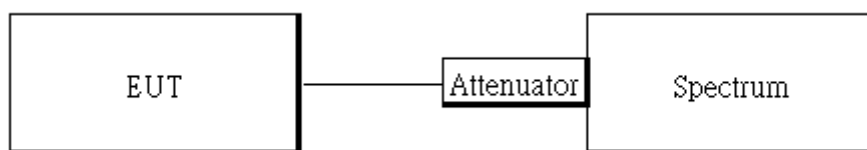
10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=500 kHz, VBW $\geq$ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. 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.

10.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	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	05/04/2016	05/03/2017

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	-3.73	11	-14.73
5220	-4.15	11	-15.15
5240	-7.83	11	-18.83
5260	-4.59	11	-15.59
5300	-6.79	11	-17.79
5320	-3.37	11	-14.37
5500	-4.26	11	-15.26
5580	-3.42	11	-14.42
5700	-5.28	11	-16.28
5745	5.37	30	-24.63
5785	4.39	30	-25.61
5825	4.80	30	-25.20

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-3.17	11	-14.17
5220	-4.59	11	-15.59
5240	-3.04	11	-14.04
5260	-4.90	11	-15.90
5300	-4.71	11	-15.71
5320	-7.70	11	-18.70
5500	-6.80	11	-17.80
5580	-3.32	11	-14.32
5700	-3.48	11	-14.48
5745	4.78	30	-25.22
5785	4.59	30	-25.41
5825	4.44	30	-25.56

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-10.55	11	-21.55
5230	-13.28	11	-24.28
5270	-12.38	11	-23.38
5310	-13.86	11	-24.86
5510	-10.4	11	-21.40
5550	-6.8	11	-17.80
5670	-10.60	11	-21.60
5755	2.52	30	-27.48
5795	2.80	30	-27.20

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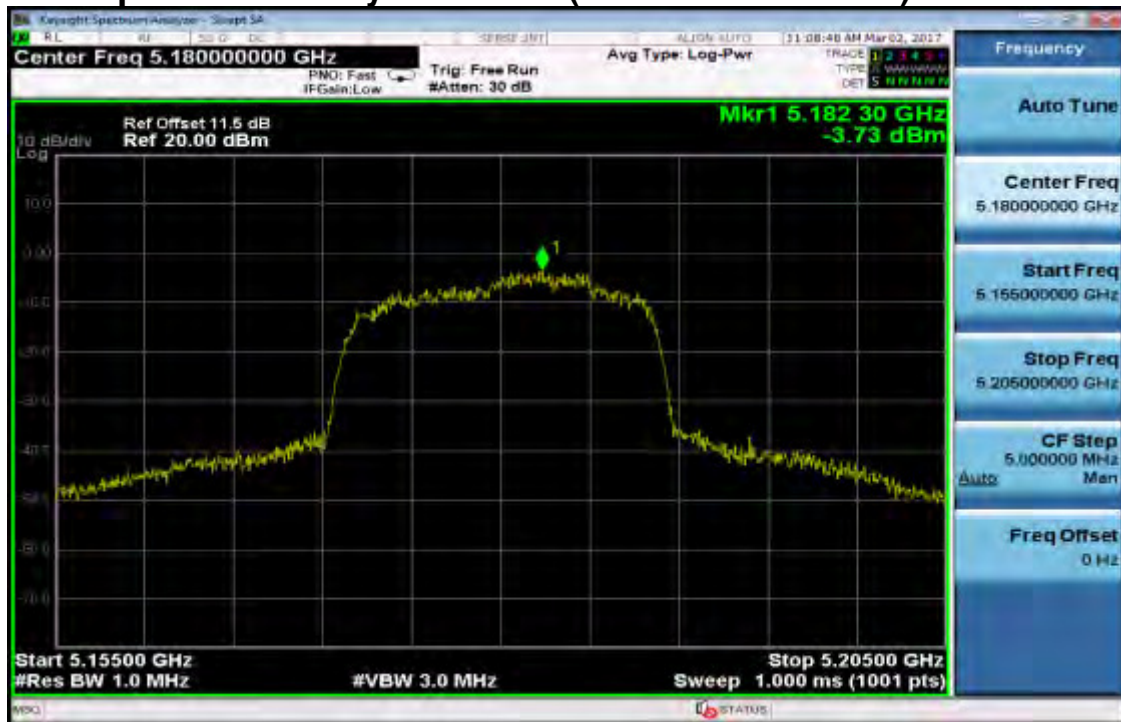
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802.11a 5150~5250 MHz

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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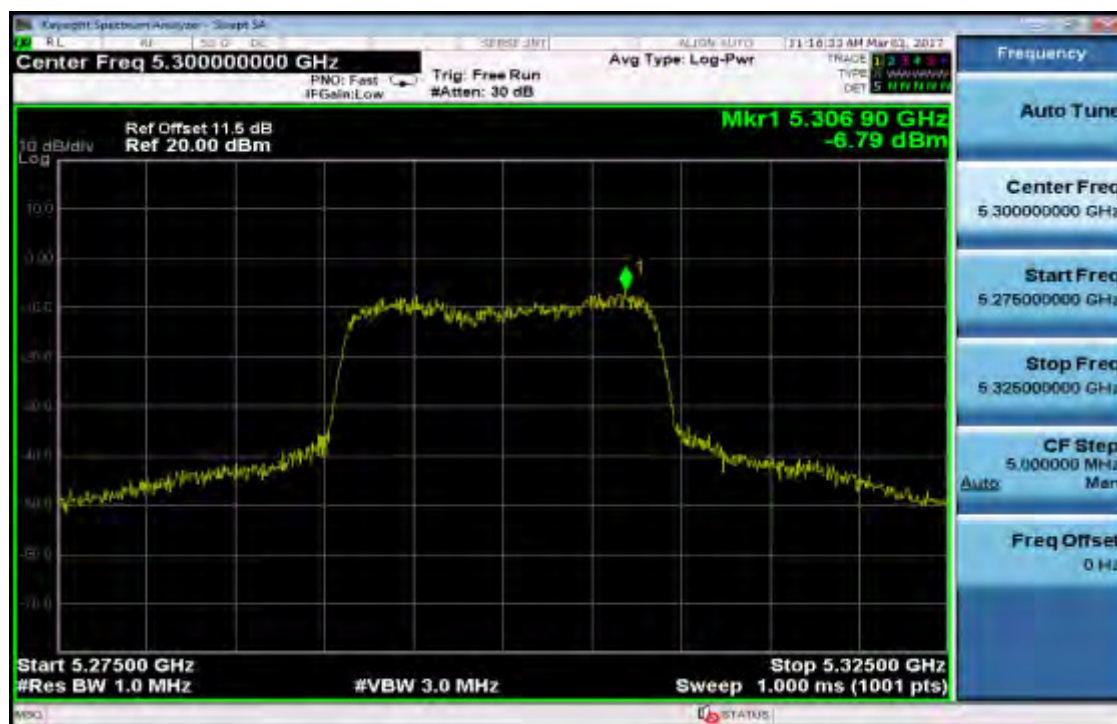
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802.11a 5250~5350 MHz

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



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



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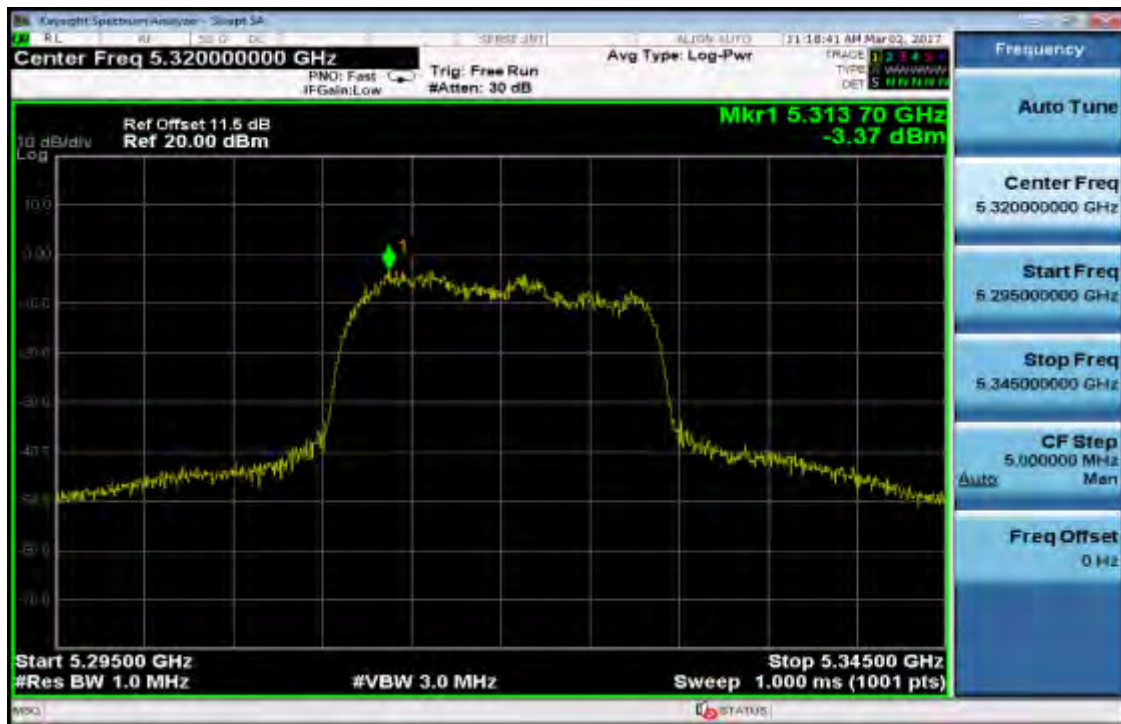
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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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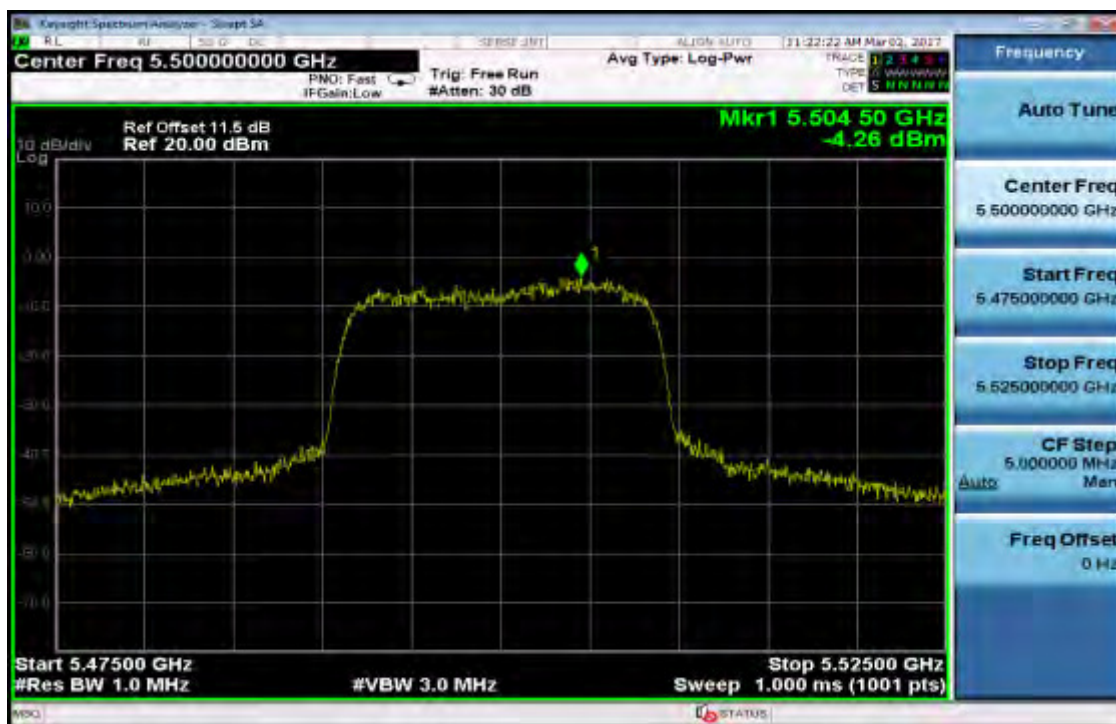
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802.11a 5470~5725 MHz

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



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



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



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



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



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



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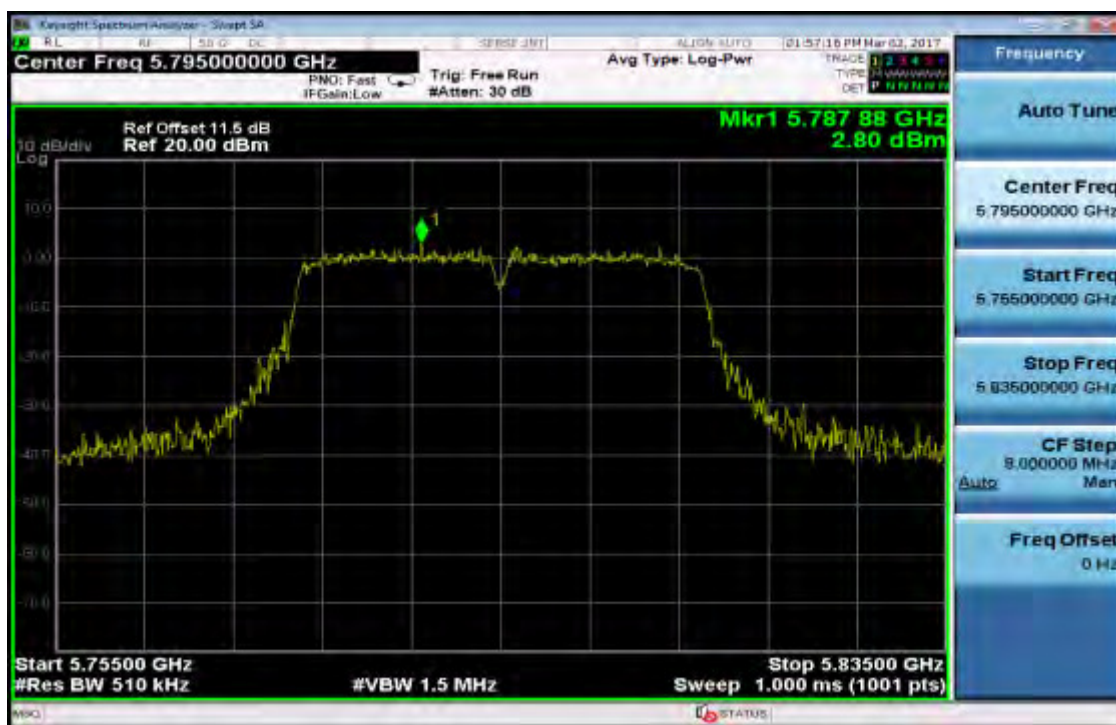
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802.11n HT40, 5725~5850 MHz

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



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



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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 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
3. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
4. For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

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APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01	FIELD STRENGTH AT 3m	
	PK: 74 (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)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)	PK: 68.3 (dBμV/m) PK: 78.2 (dBμV/m)
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

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

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:

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

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11.2 Measurement Equipment Used

SGS 966 Chamber No.C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/12/2016	04/11/2017
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	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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

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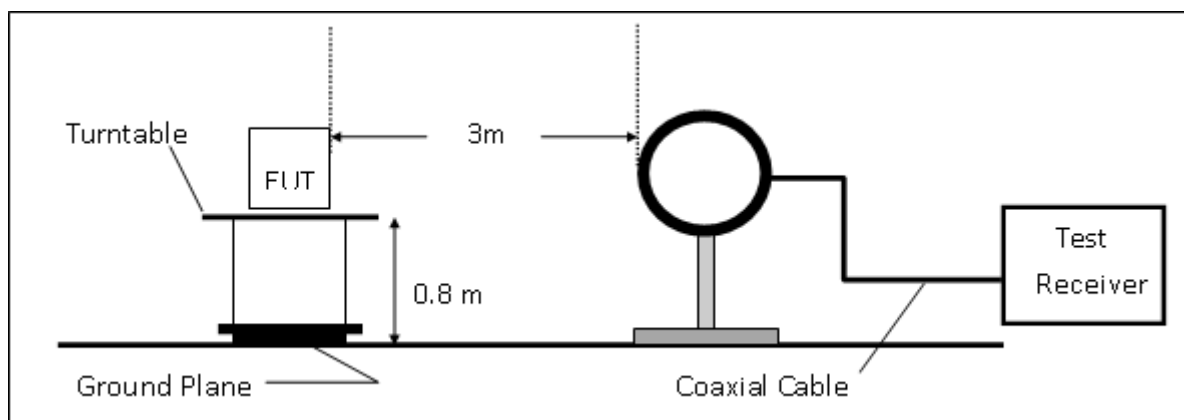
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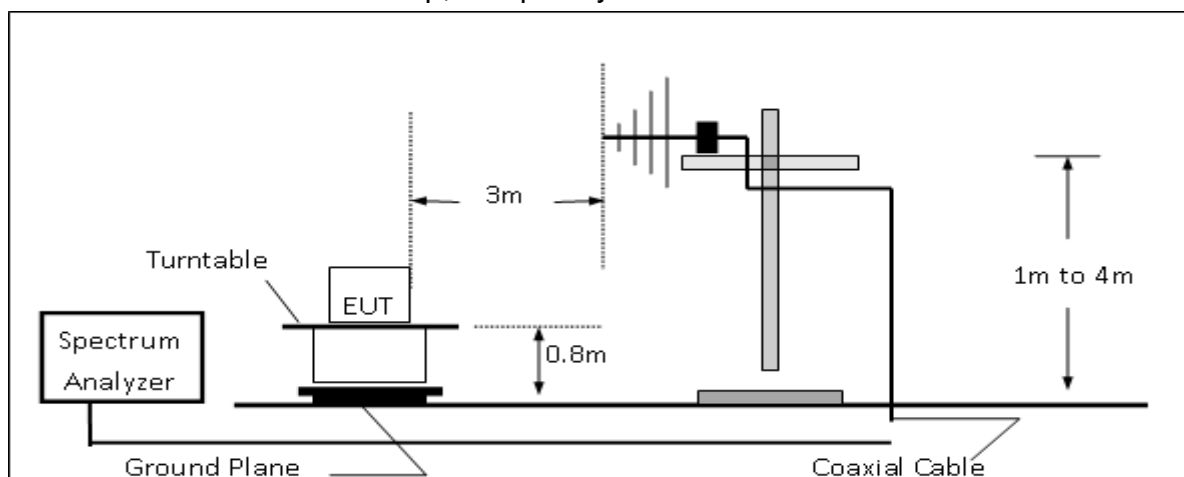
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11.3 Test SET-UP

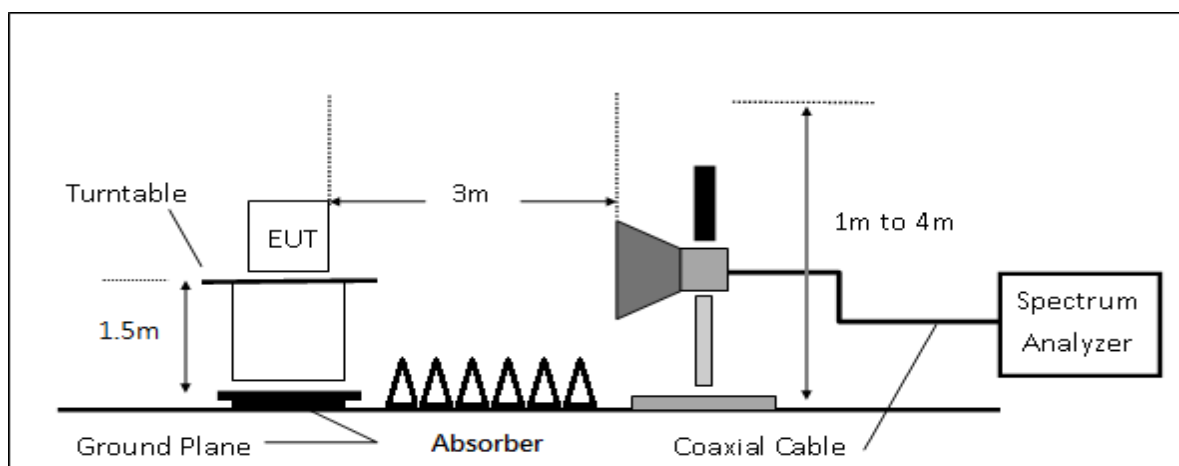
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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)

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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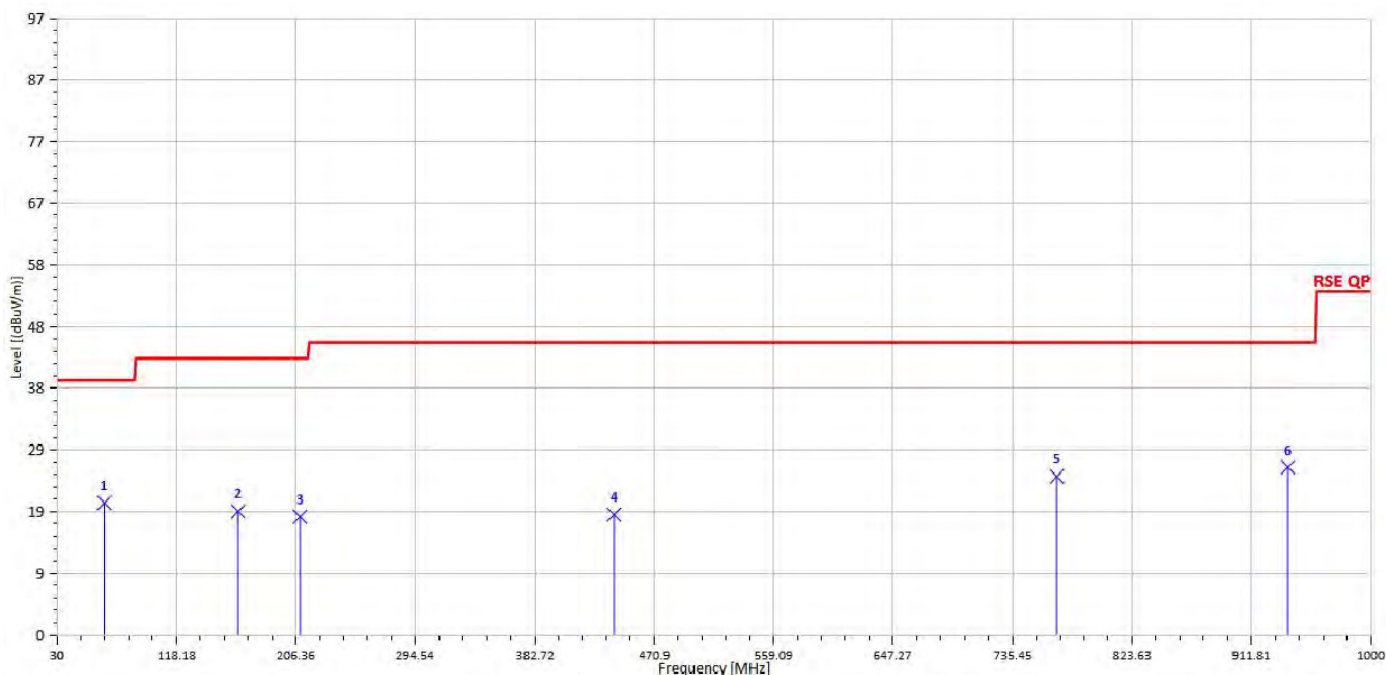
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11a	Test Date :	2017/3/13
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Tank
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
64.92	S	Peak	45.71	-24.94	20.77	40	-19.23
163.86	S	Peak	42.05	-22.62	19.43	43.5	-24.07
209.45	S	Peak	43.73	-25.13	18.60	43.5	-24.90
441.28	S	Peak	37.36	-18.43	18.93	46	-27.07
768.17	S	Peak	36.44	-11.51	24.93	46	-21.07
938.89	S	Peak	35.97	-9.61	26.36	46	-19.64

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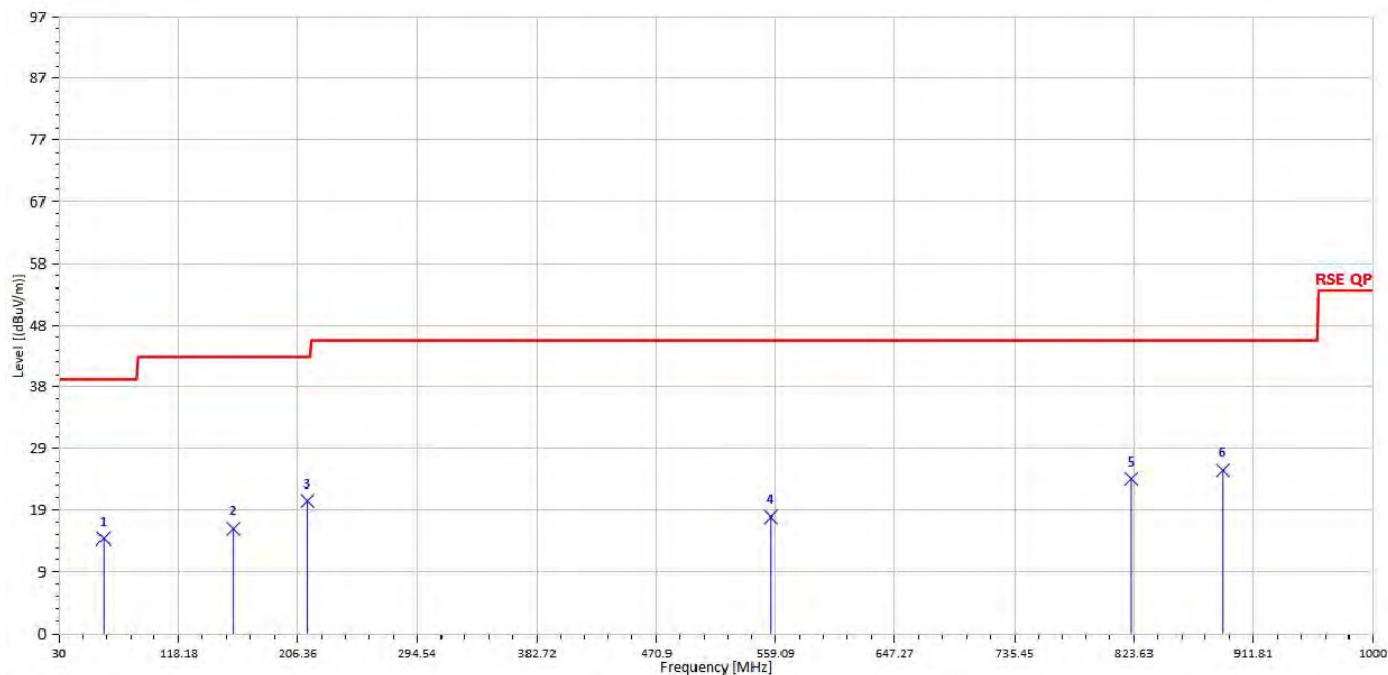
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Operation Mode : 802.11a Test Date : 2017/3/13
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Tank
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
62.98	S	Peak	39.71	-24.79	14.92	40	-25.08
159.01	S	Peak	38.58	-22.12	16.46	43.5	-27.04
213.33	S	Peak	45.85	-25.01	20.84	43.5	-22.66
555.74	S	Peak	34.52	-16.22	18.30	46	-27.70
821.52	S	Peak	35.68	-11.40	24.29	46	-21.71
889.42	S	Peak	36.19	-10.53	25.66	46	-20.34

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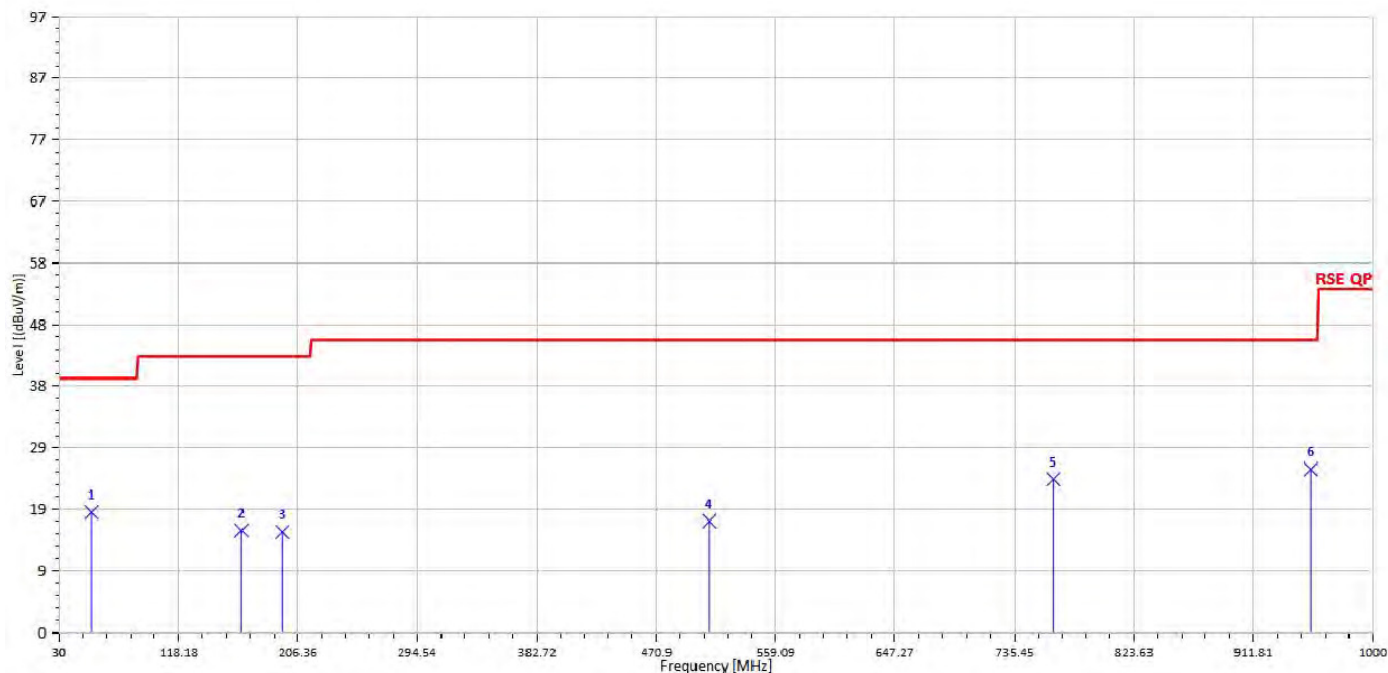
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802.11a 5250~5350 MHz

Operation Mode :	802.11a	Test Date :	2017/3/13
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Tank
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
54.25	S	Peak	42.98	-24.08	18.90	40	-21.10
164.83	S	Peak	38.80	-22.75	16.05	43.5	-27.45
194.90	S	Peak	41.03	-25.21	15.82	43.5	-27.68
510.15	S	Peak	34.42	-16.91	17.52	46	-28.48
764.29	S	Peak	35.57	-11.47	24.11	46	-21.89
954.41	S	Peak	35.38	-9.71	25.67	46	-20.33

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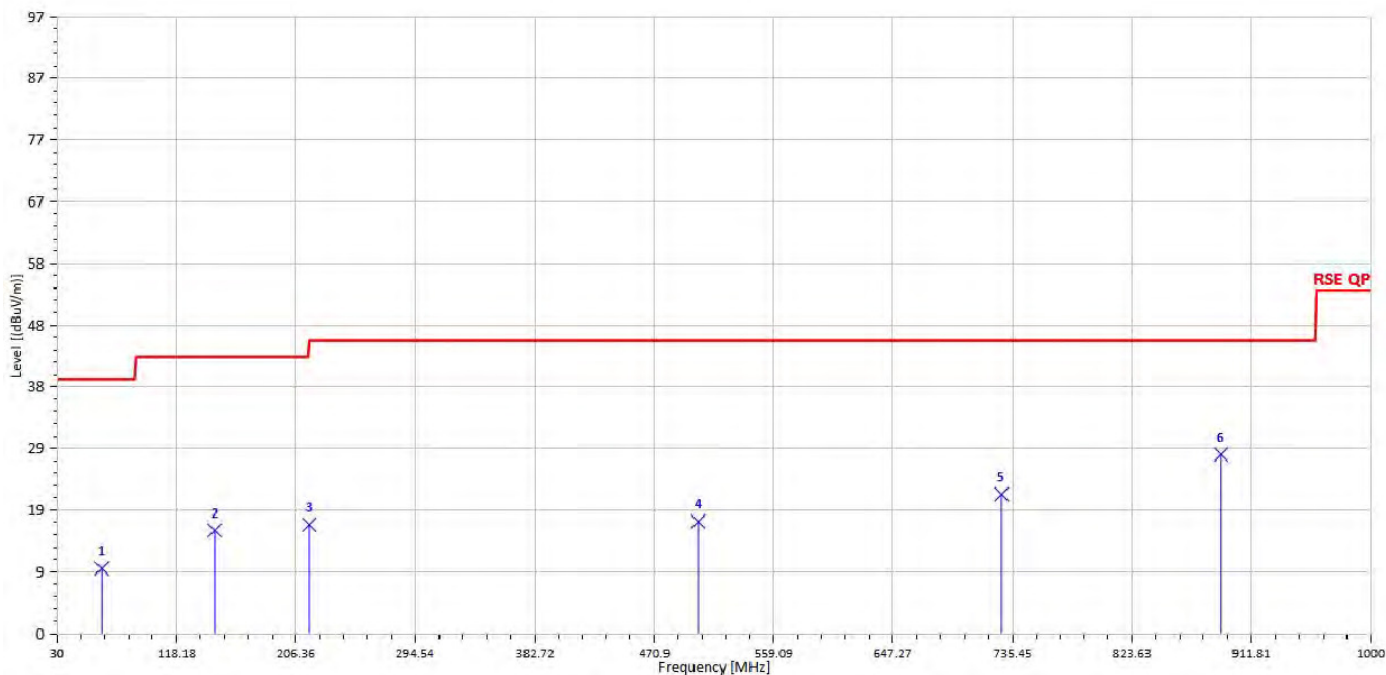
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Operation Mode : 802.11a Test Date : 2017/3/13
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Tank
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
62.98	S	Peak	34.99	-24.79	10.20	40	-29.80
146.40	S	Peak	38.72	-22.50	16.22	43.5	-27.28
216.24	S	Peak	42.04	-24.92	17.12	46	-28.88
503.36	S	Peak	34.81	-17.22	17.60	46	-28.40
727.43	S	Peak	34.93	-13.03	21.90	46	-24.10
889.42	S	Peak	38.67	-10.53	28.14	46	-17.86

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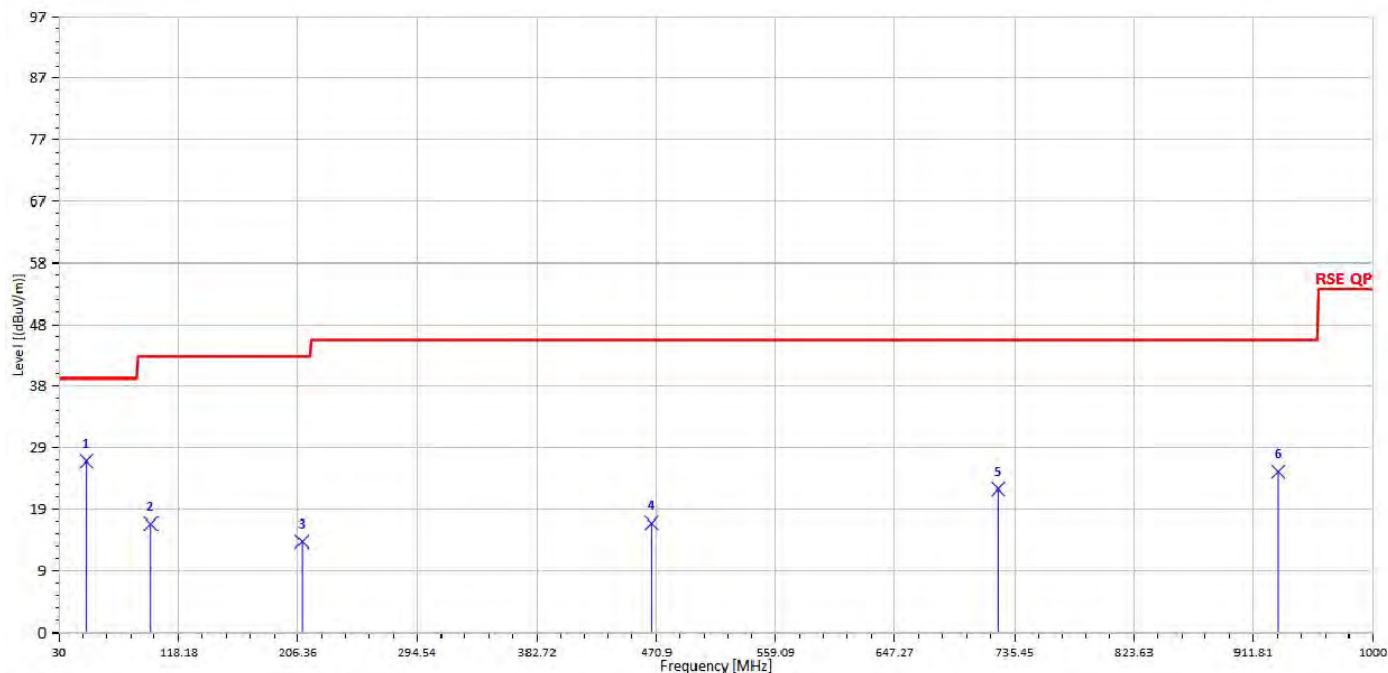
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802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2017/3/13
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Tank
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
50.37	S	Peak	50.73	-23.77	26.96	40	-13.04
97.90	S	Peak	44.12	-27.03	17.09	43.5	-26.41
209.45	S	Peak	39.39	-25.13	14.26	43.5	-29.24
467.47	S	Peak	34.28	-17.08	17.21	46	-28.79
723.55	S	Peak	35.57	-12.99	22.58	46	-23.42
930.16	S	Peak	35.02	-9.69	25.34	46	-20.66

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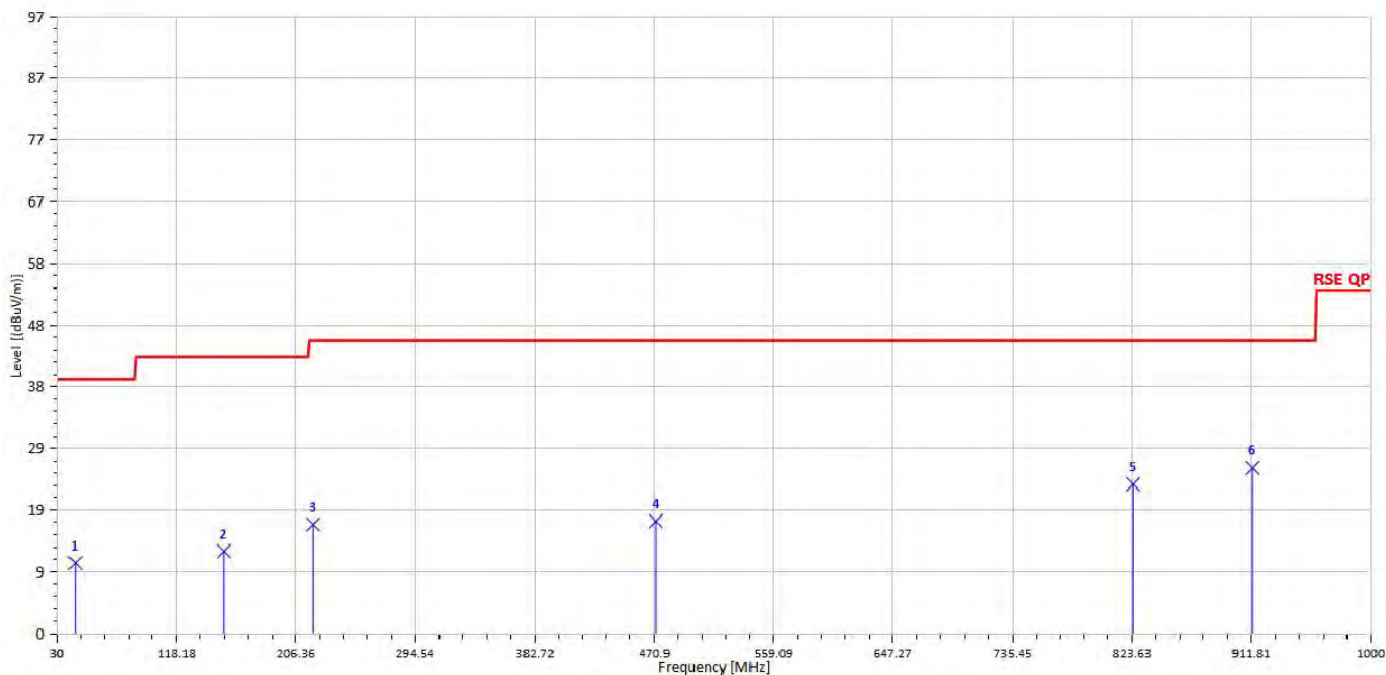
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Operation Mode : 802.11a Test Date : 2017/3/13
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Tank
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
43.58	S	Peak	34.17	-23.10	11.07	40	-28.93
153.19	S	Peak	35.11	-22.18	12.93	43.5	-30.57
219.15	S	Peak	41.97	-24.83	17.14	46	-28.86
472.32	S	Peak	34.69	-17.03	17.67	46	-28.33
824.43	S	Peak	34.78	-11.30	23.47	46	-22.53
912.70	S	Peak	36.14	-10.07	26.08	46	-19.92

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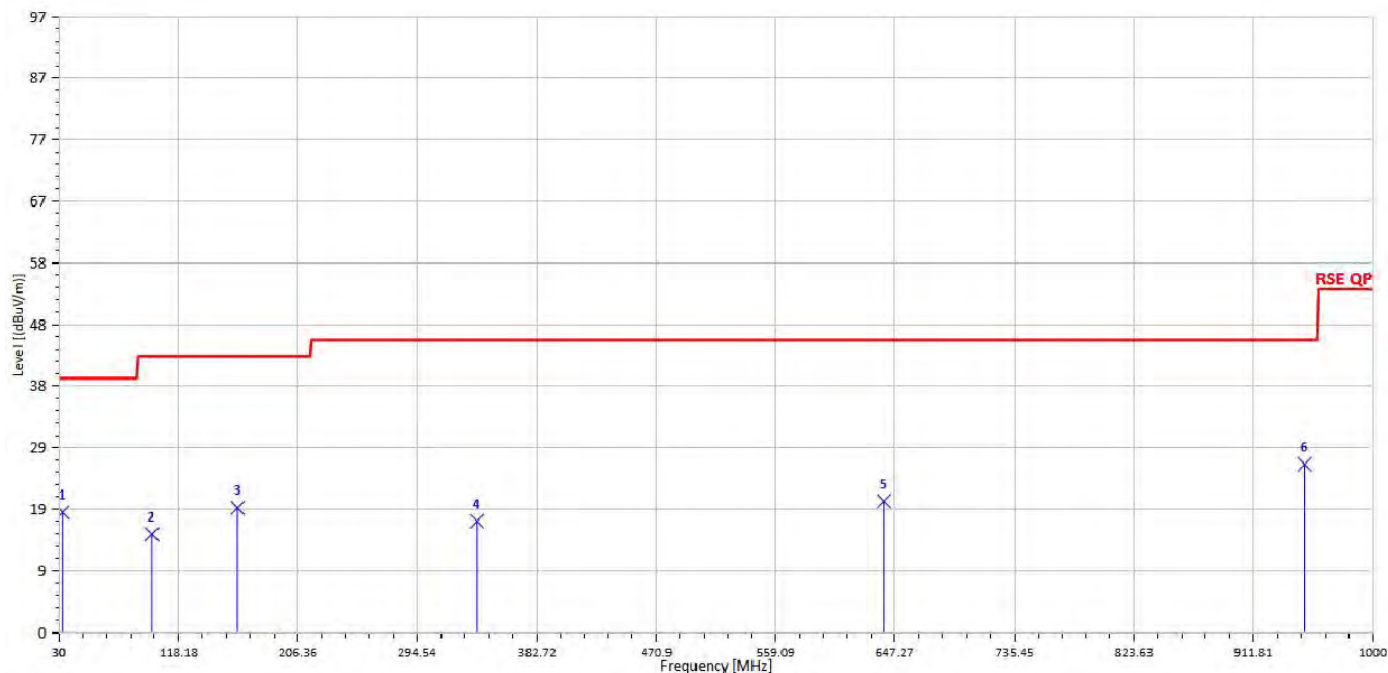
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802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2017/3/13
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Tank
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
32.91	S	Peak	43.20	-24.30	18.89	40	-21.11
98.87	S	Peak	42.40	-26.95	15.46	43.5	-28.04
161.92	S	Peak	41.94	-22.36	19.58	43.5	-23.92
338.46	S	Peak	37.88	-20.38	17.50	46	-28.50
639.16	S	Peak	34.38	-13.72	20.67	46	-25.33
949.56	S	Peak	36.20	-9.73	26.47	46	-19.53

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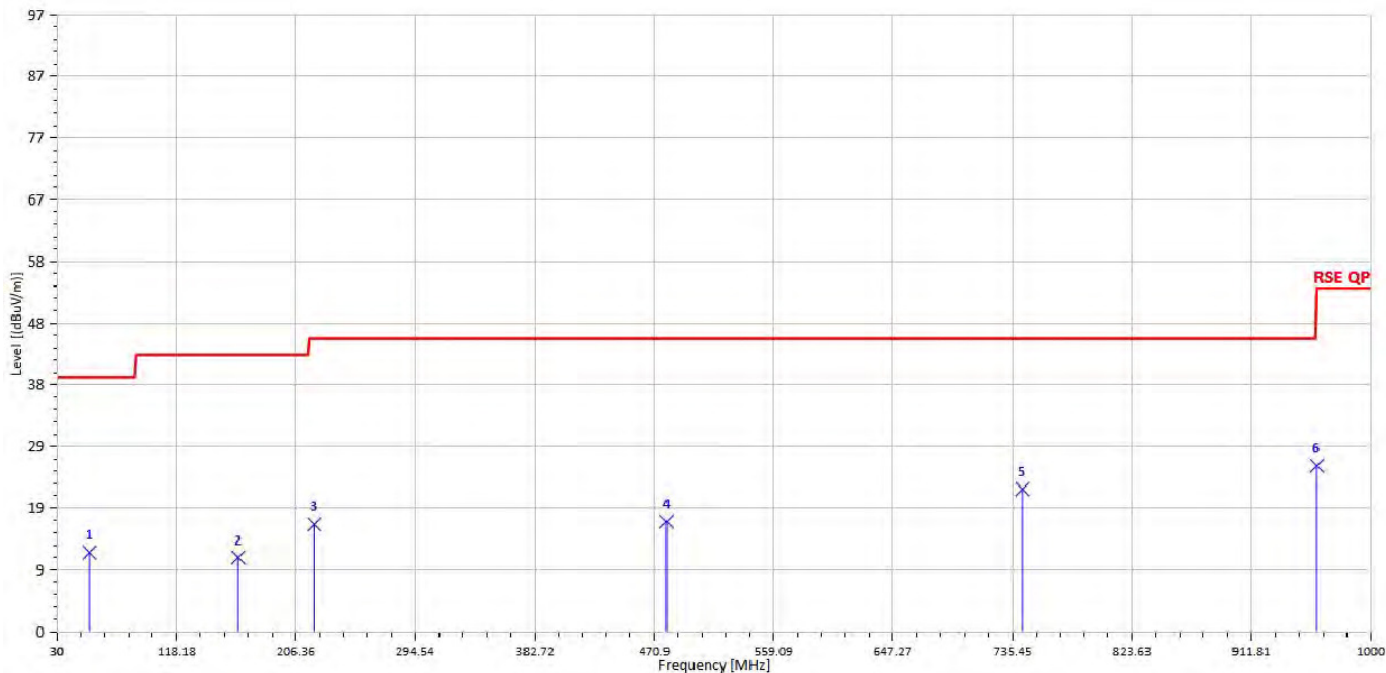
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Operation Mode : 802.11a Test Date : 2017/3/13
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
54.25	S	Peak	36.49	-24.08	12.40	40	-27.60
163.86	S	Peak	34.25	-22.62	11.63	43.5	-31.87
220.12	S	Peak	41.68	-24.79	16.88	46	-29.12
480.08	S	Peak	34.35	-17.03	17.32	46	-28.68
742.95	S	Peak	34.90	-12.52	22.37	46	-23.63
960.23	S	Peak	35.75	-9.66	26.09	54	-27.91

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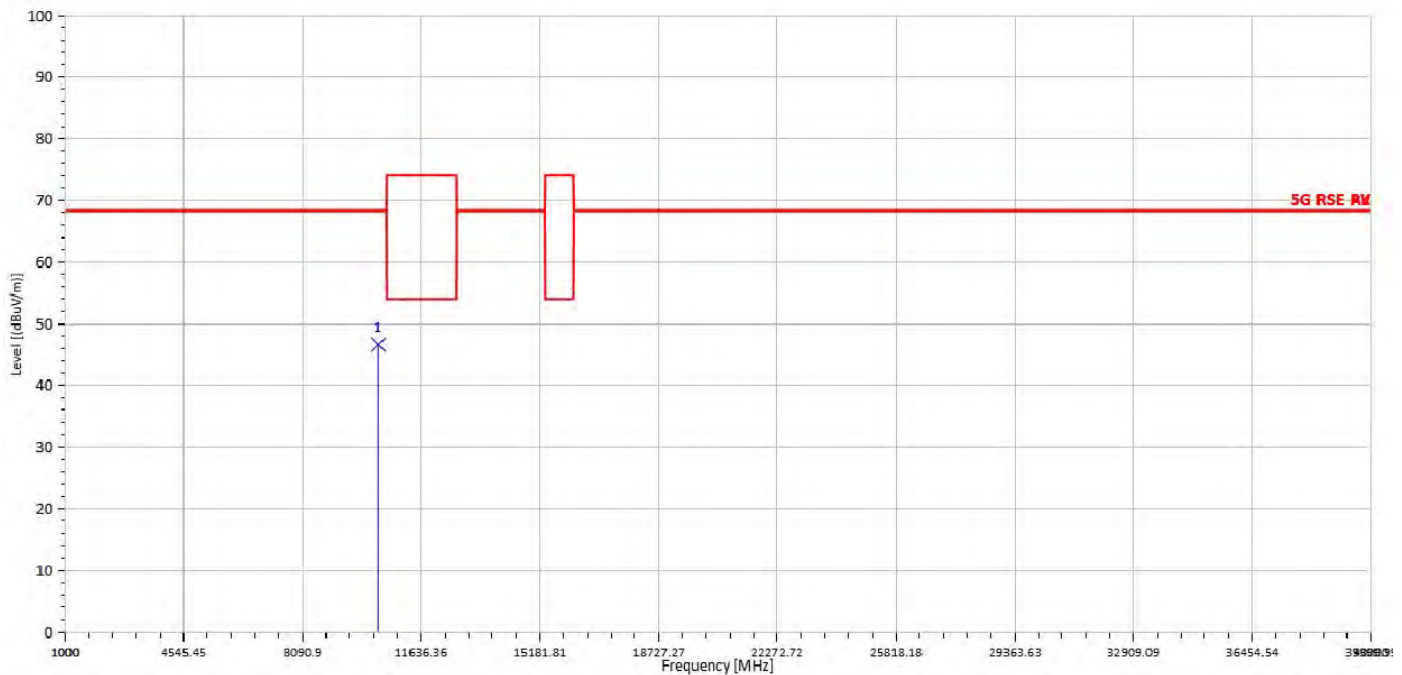
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Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11a	Test Date :	2017/3/15
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	37.30	9.27	46.57	68.3	-21.73

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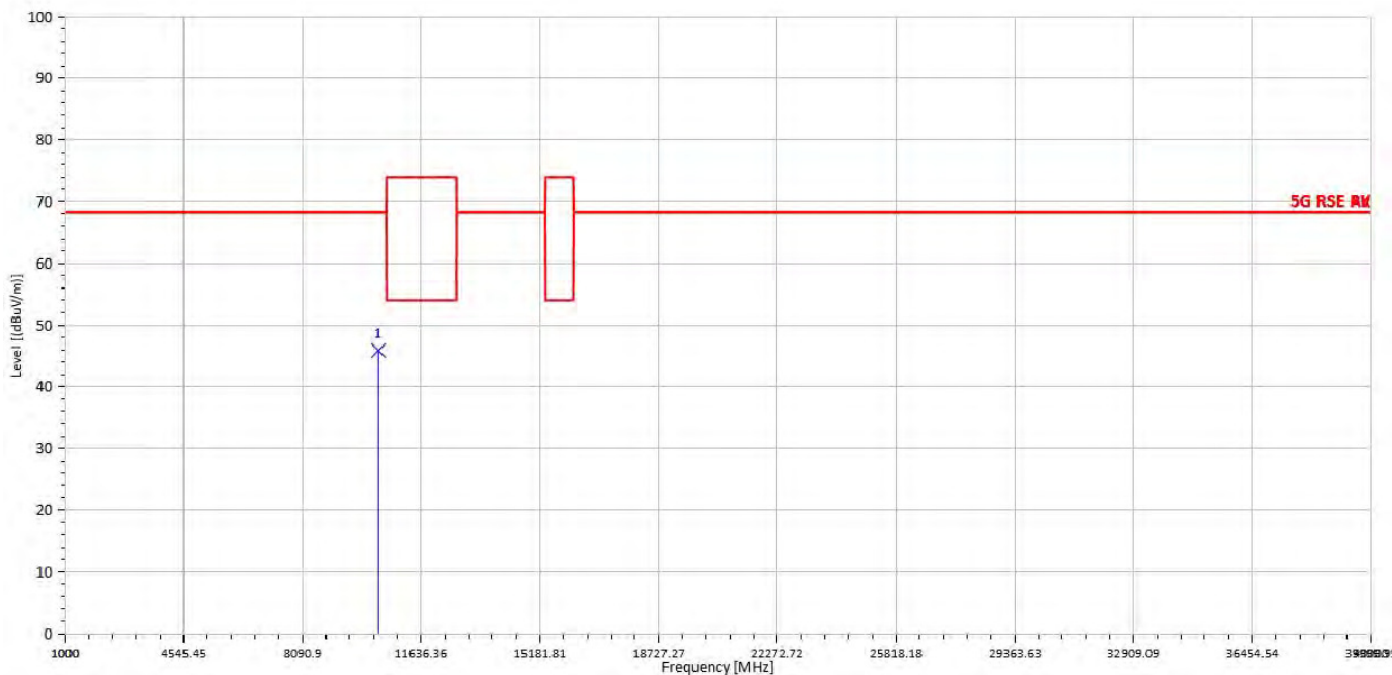
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Operation Mode :	802.11a	Test Date :	2017/3/15
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	36.60	9.27	45.87	68.3	-22.43

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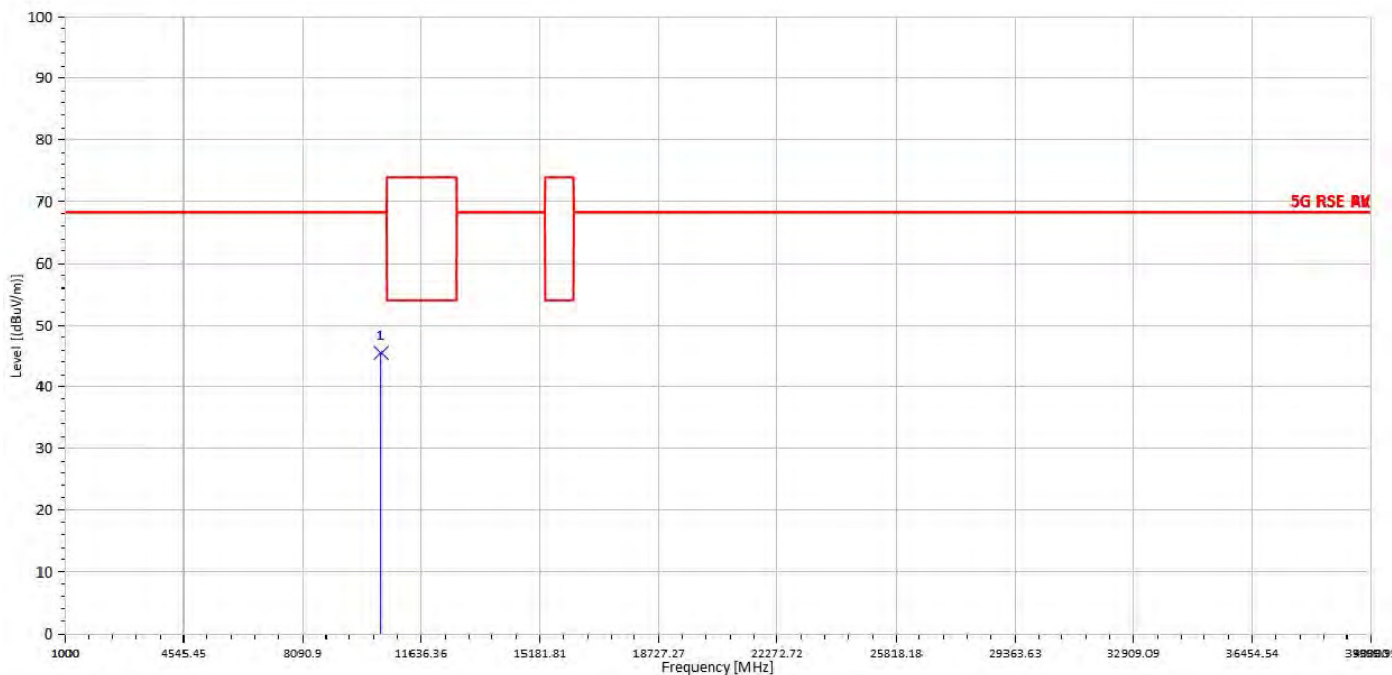
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Operation Mode : 802.11a Test Date : 2017/3/15
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	35.94	9.57	45.51	68.3	-22.79

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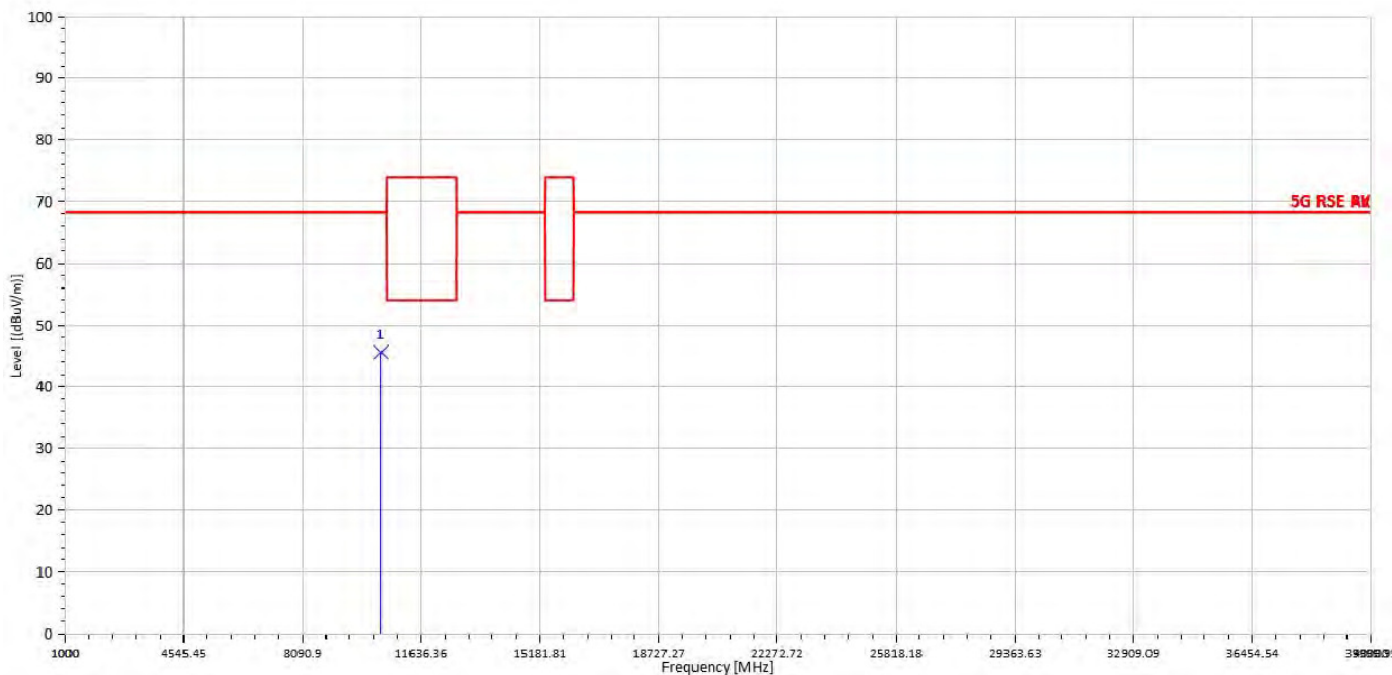
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Operation Mode : 802.11a Test Date : 2017/3/15
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	36.04	9.57	45.61	68.3	-22.69

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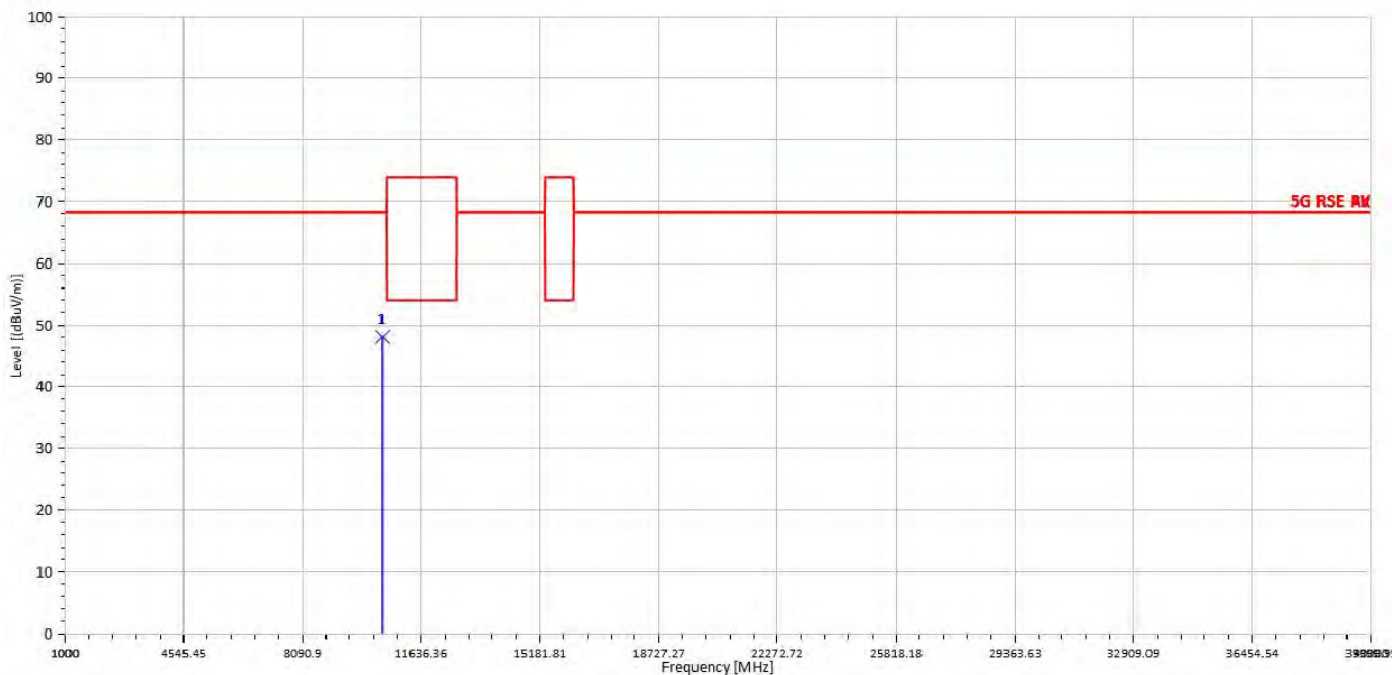
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Operation Mode : 802.11a Test Date : 2017/3/15
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	H	Peak	38.39	9.64	48.03	68.3	-20.27

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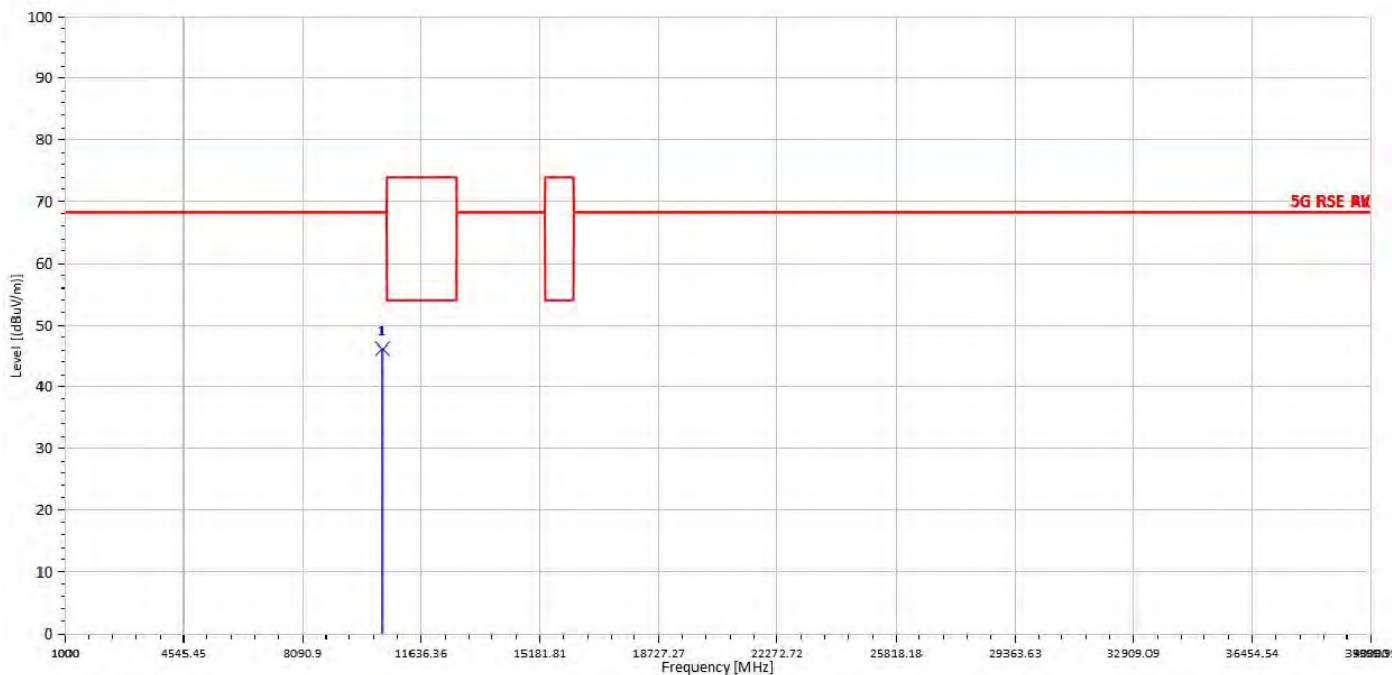
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Operation Mode : 802.11a Test Date : 2017/3/15
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	36.51	9.64	46.15	68.3	-22.15

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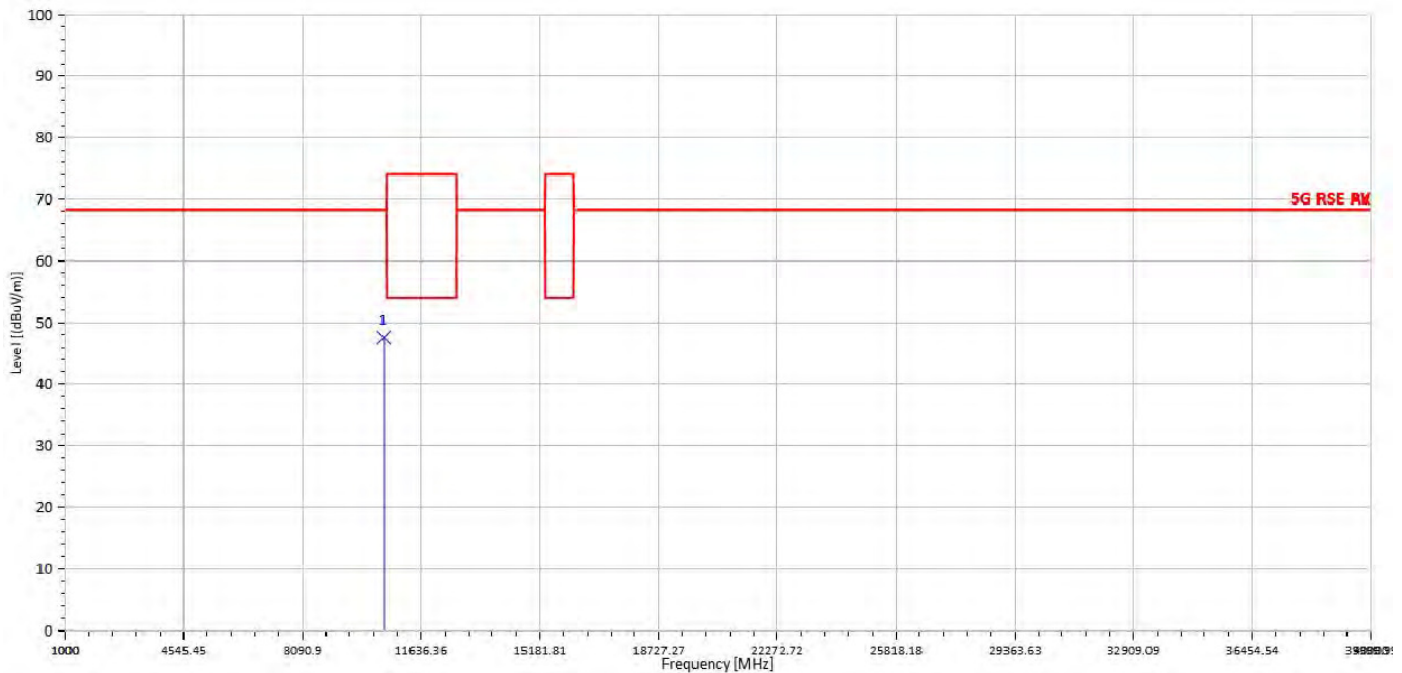
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11a	Test Date :	2017/3/15
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	37.72	9.77	47.49	68.3	-20.81

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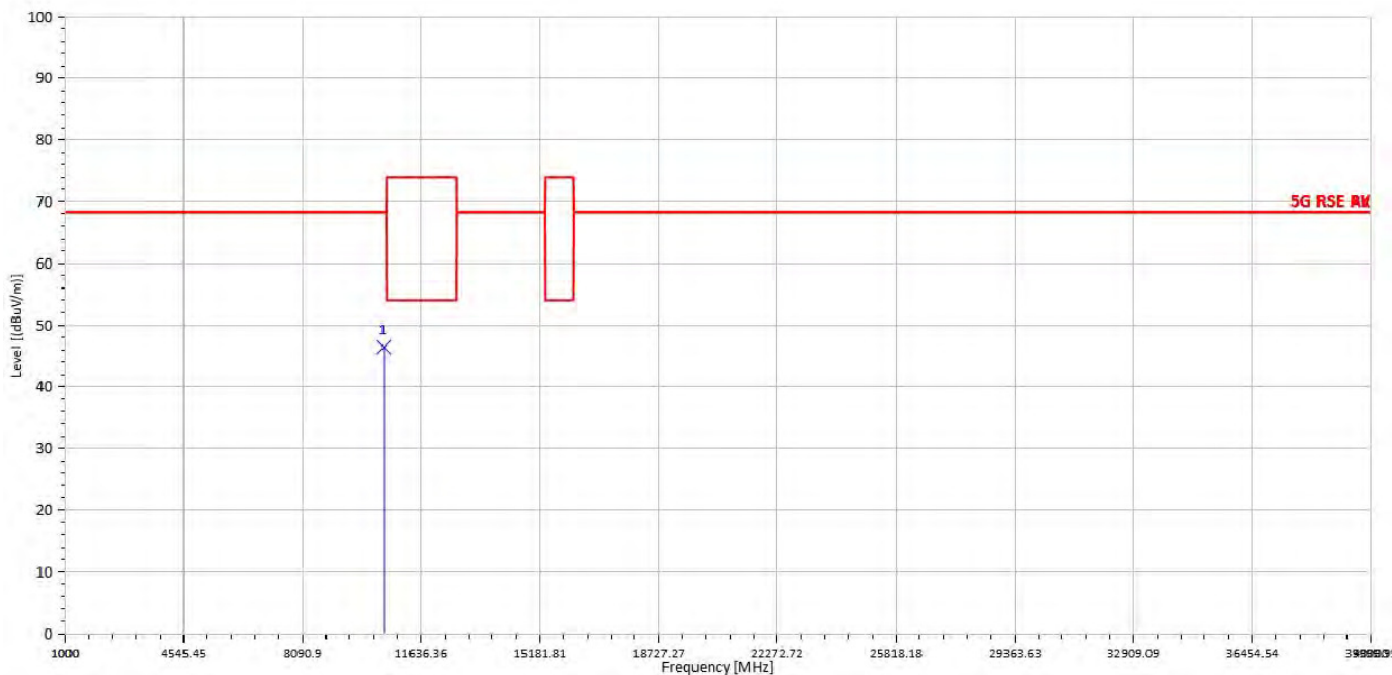
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Operation Mode :	802.11a	Test Date :	2017/3/15
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	36.63	9.77	46.40	68.3	-21.90

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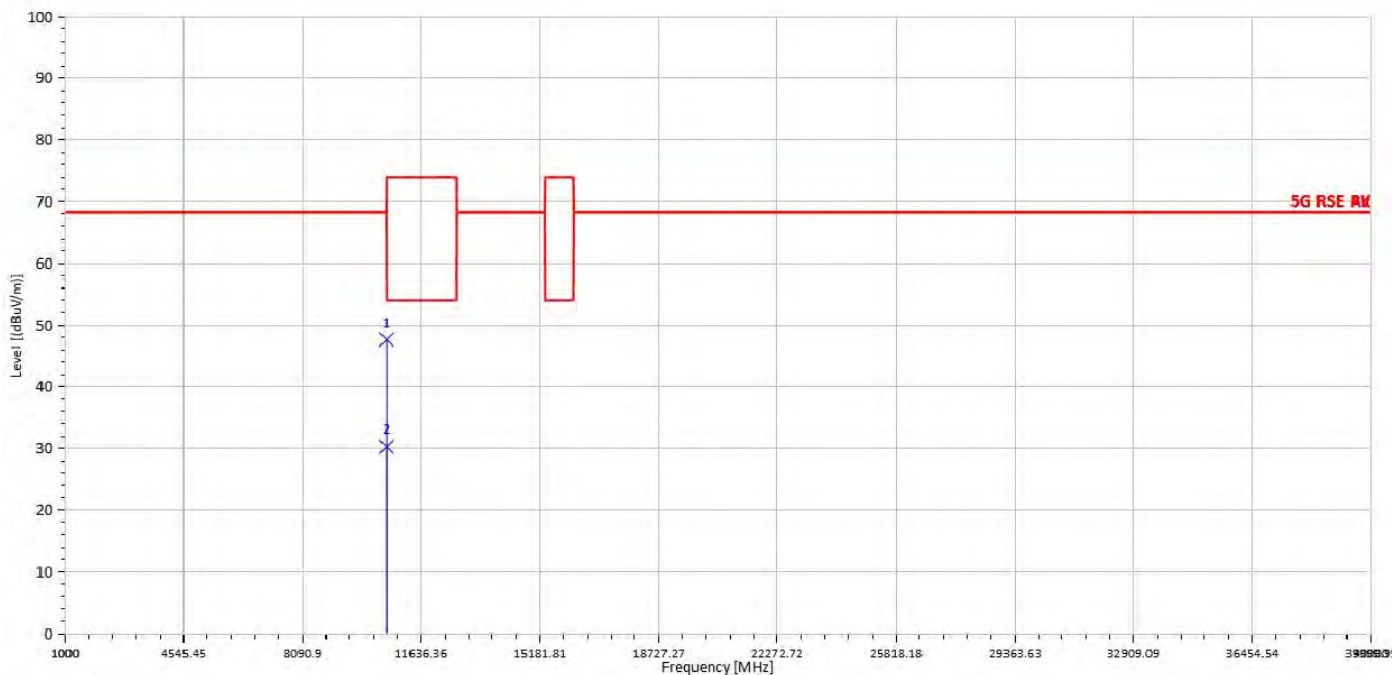
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Operation Mode : 802.11a Test Date : 2017/3/15
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	H	Peak	37.48	10.15	47.63	74	-26.37
10600.00	H	Average	20.10	10.15	30.25	54	-23.75

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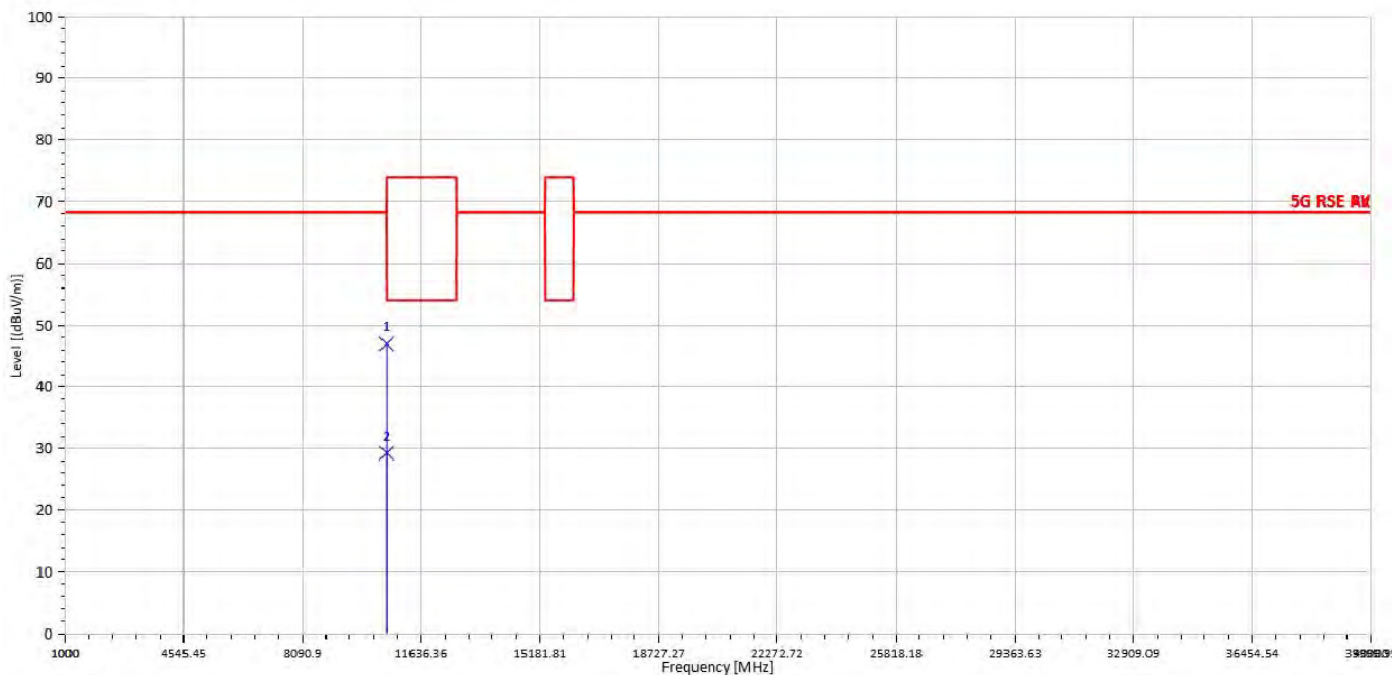
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Operation Mode : 802.11a Test Date : 2017/3/15
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	36.79	10.15	46.94	74	-27.06
10600.00	H	Average	19.10	10.15	29.25	54	-24.75

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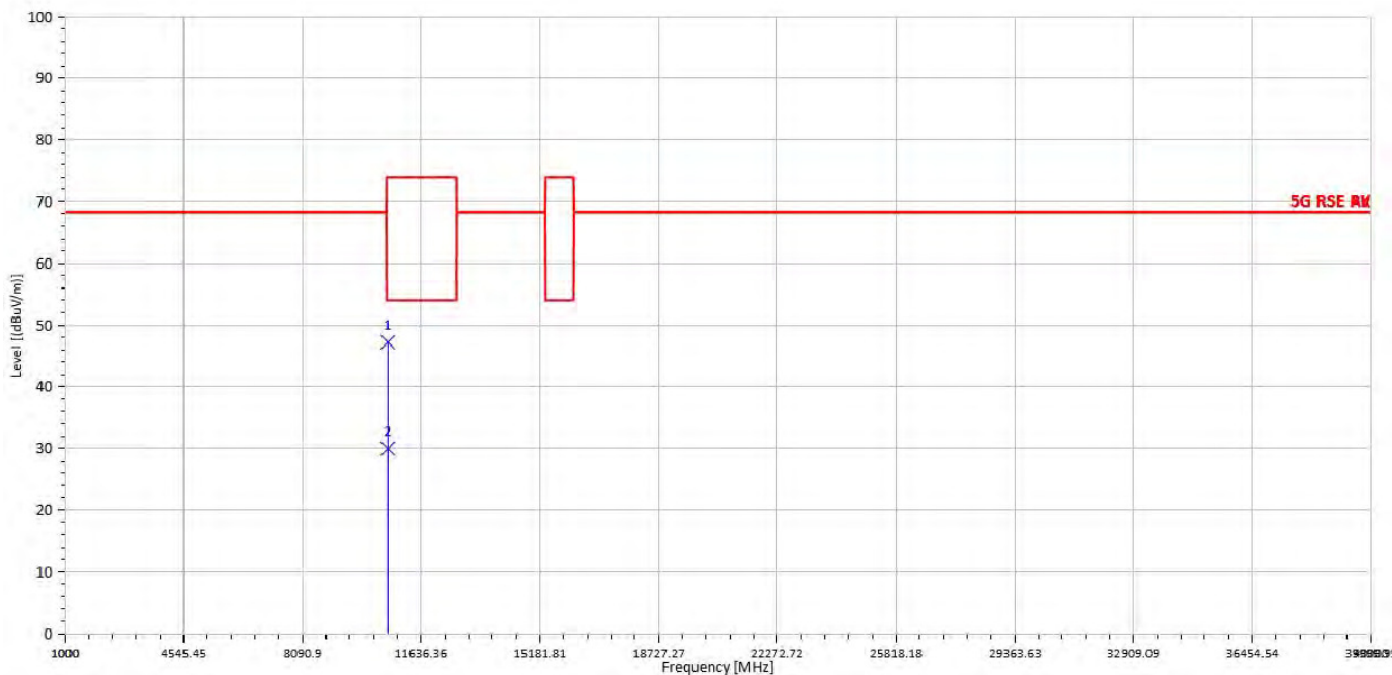
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Operation Mode :	802.11a	Test Date :	2017/3/15
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	H	Peak	37.14	10.07	47.21	74	-26.79
10640.00	H	Average	19.87	10.07	29.94	54	-24.06

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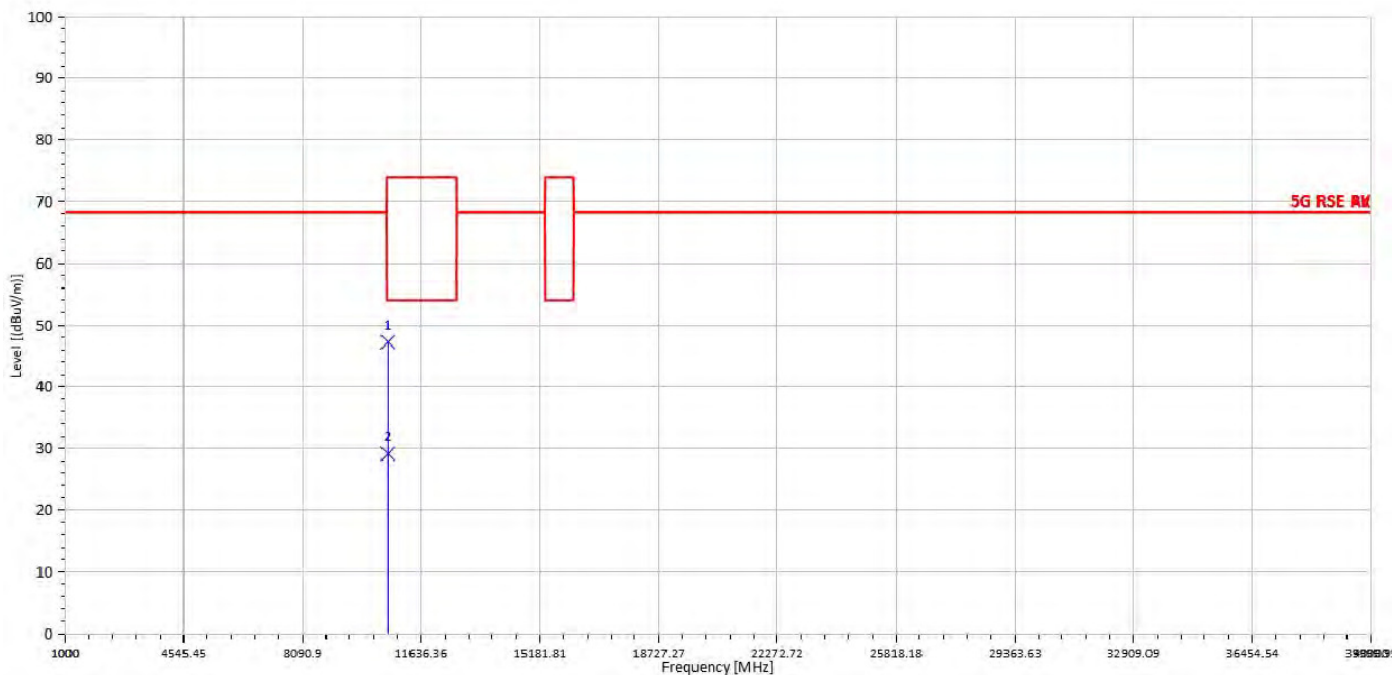
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Operation Mode :	802.11a	Test Date :	2017/3/15
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	H	Peak	37.16	10.07	47.24	74	-26.76
10640.00	H	Average	19.04	10.07	29.11	54	-24.89

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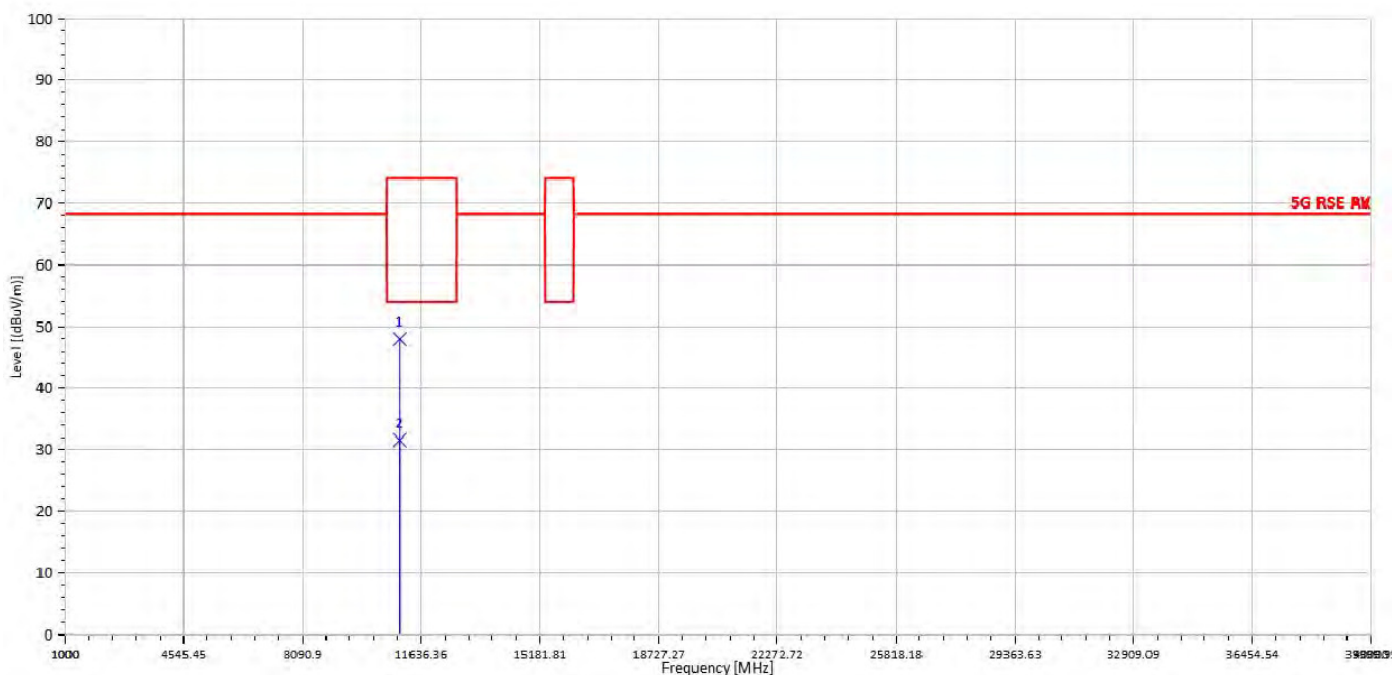
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2017/3/15
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBuV		dBuV/m	dBuV/m	
11 000.00	H	Peak	36.22	11.71	47.93	74	-26.07
11 000.00	H	Average	19.82	11.71	31.53	54	-22.47

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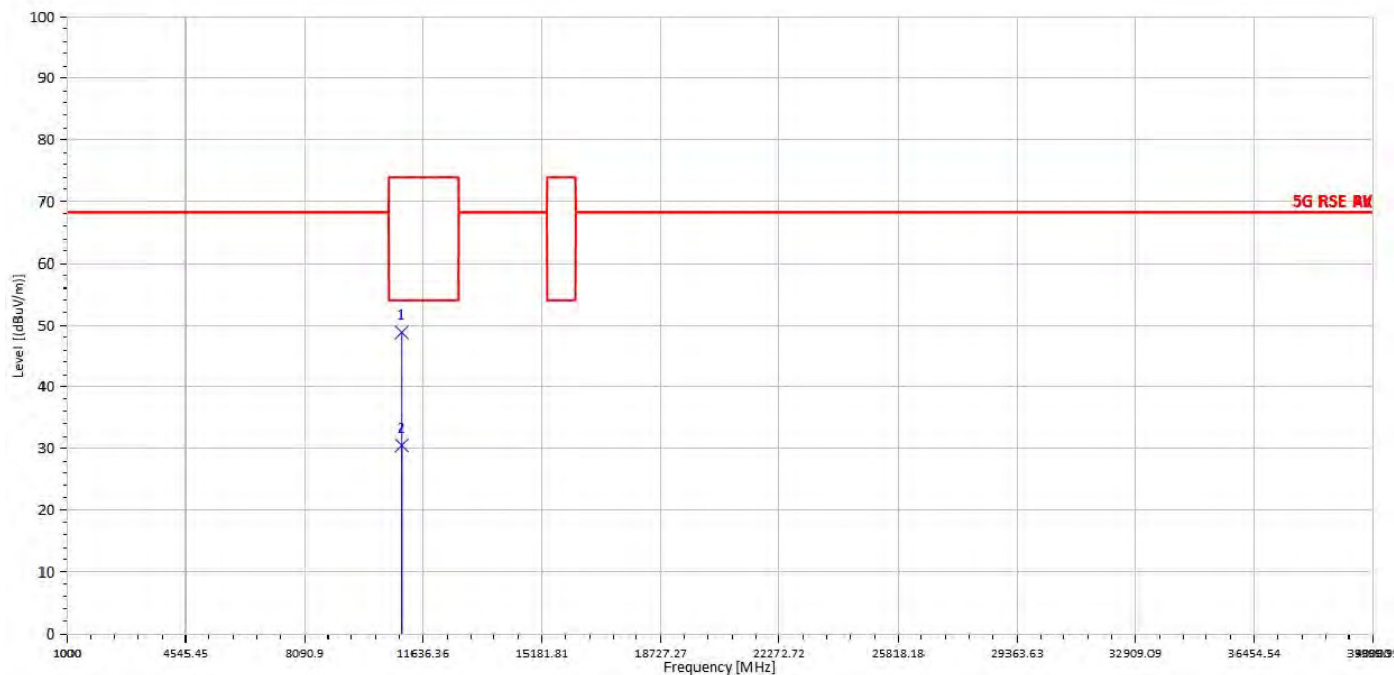
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Operation Mode :	802.11a	Test Date :	2017/3/15
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11 000.00	H	Peak	37.08	11.71	48.79	74	-25.21
11 000.00	H	Average	18.78	11.71	30.49	54	-23.51

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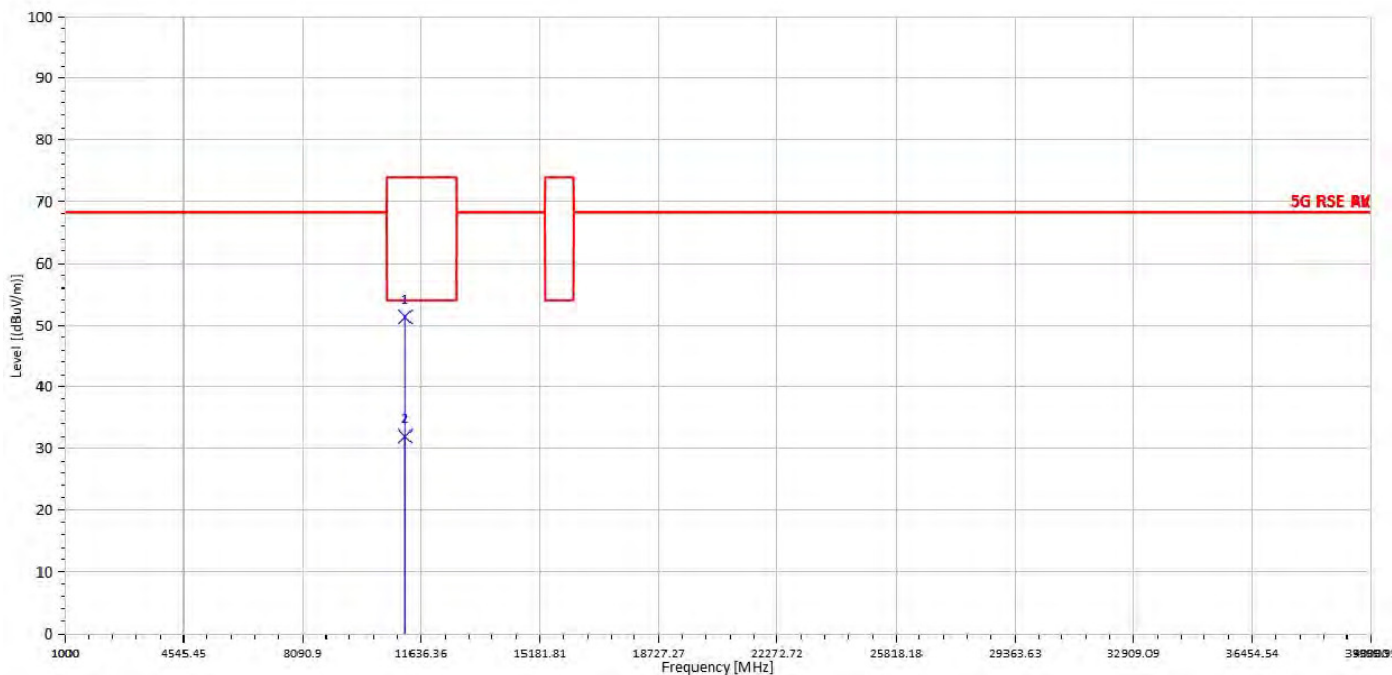
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Operation Mode : 802.11a Test Date : 2017/3/15
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	39.80	11.51	51.31	74	-22.69
11160.00	H	Average	20.46	11.51	31.97	54	-22.03

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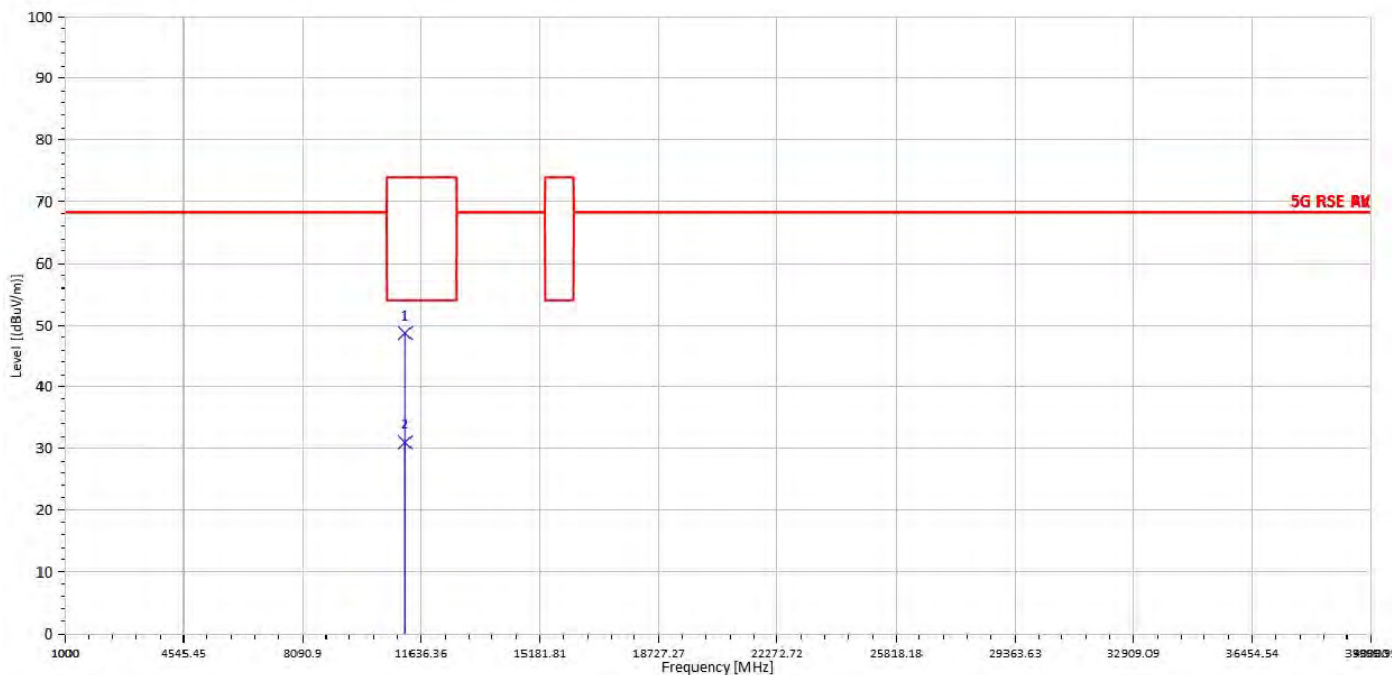
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Operation Mode : 802.11a Test Date : 2017/3/15
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Tank
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	37.16	11.51	48.67	74	-25.33
11160.00	H	Average	19.48	11.51	30.99	54	-23.01

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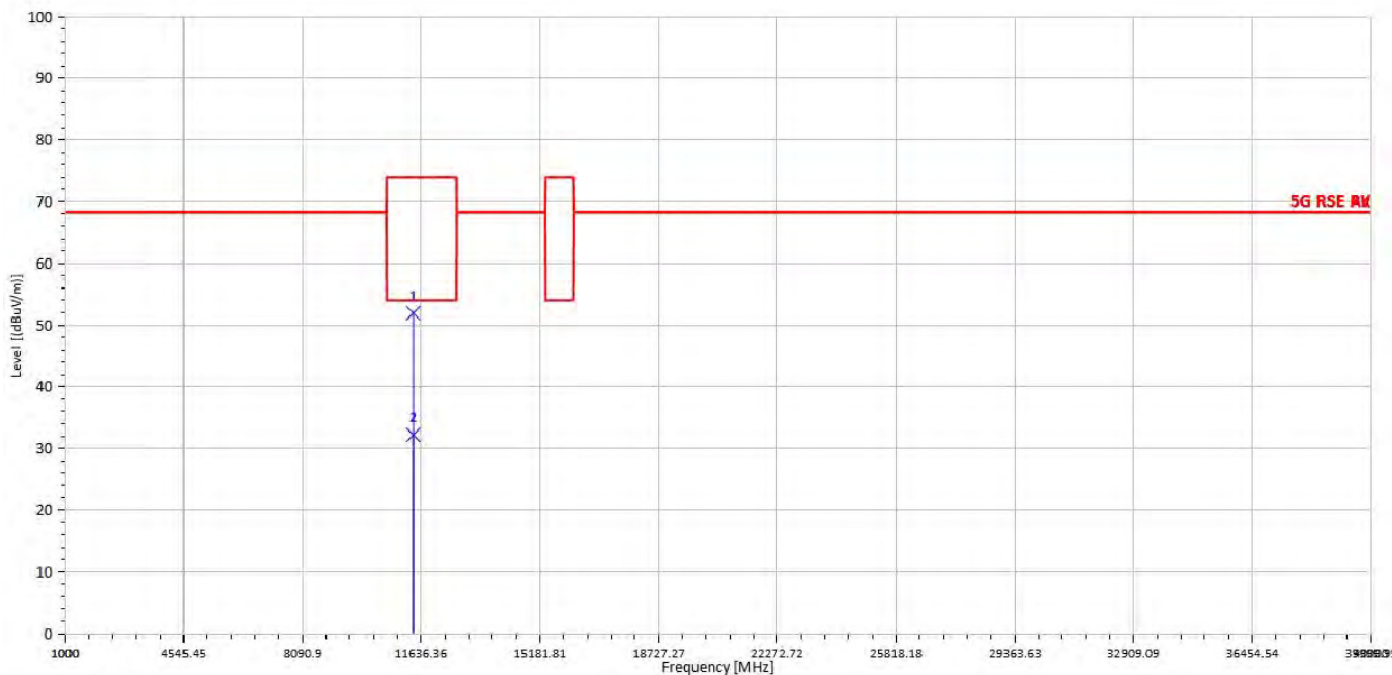
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Operation Mode : 802.11a Test Date : 2017/3/15
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	40.32	11.60	51.92	74	-22.08
11400.00	H	Average	20.59	11.60	32.19	54	-21.81

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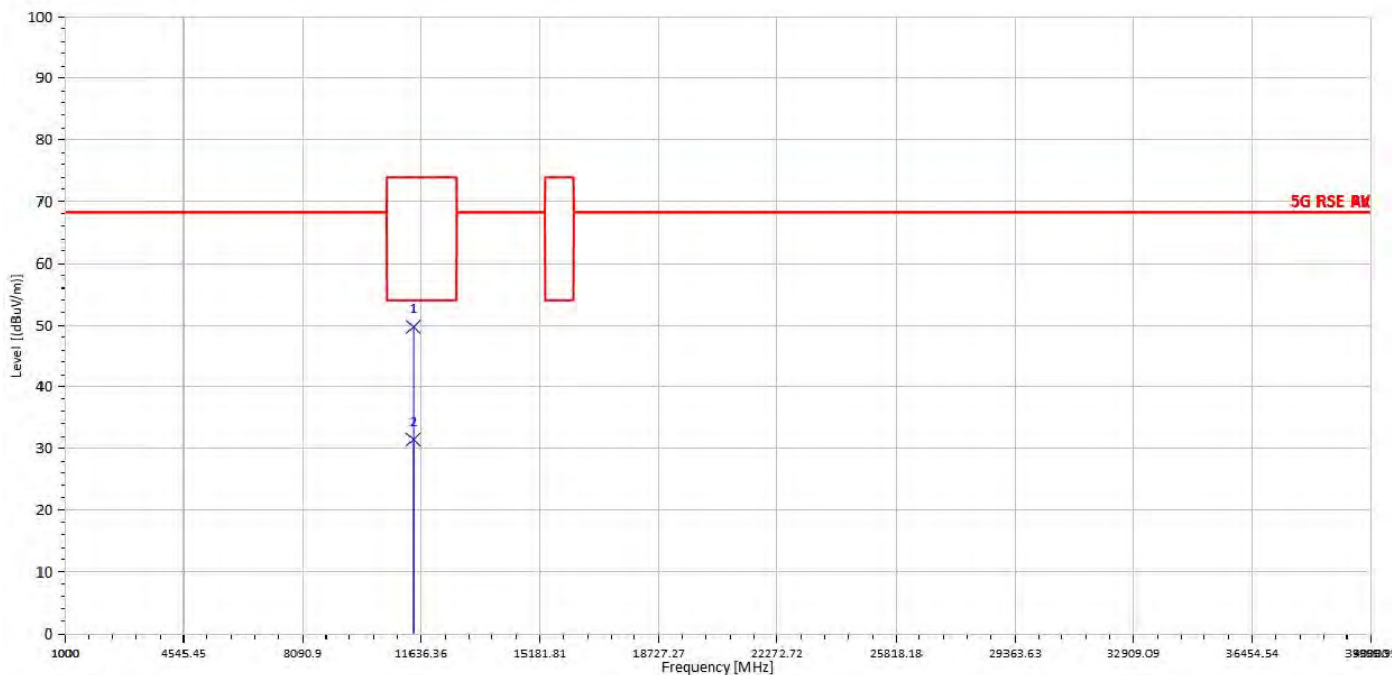
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Operation Mode :	802.11a	Test Date :	2017/3/15
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	38.12	11.60	49.72	74	-24.28
11400.00	H	Average	19.88	11.60	31.48	54	-22.52

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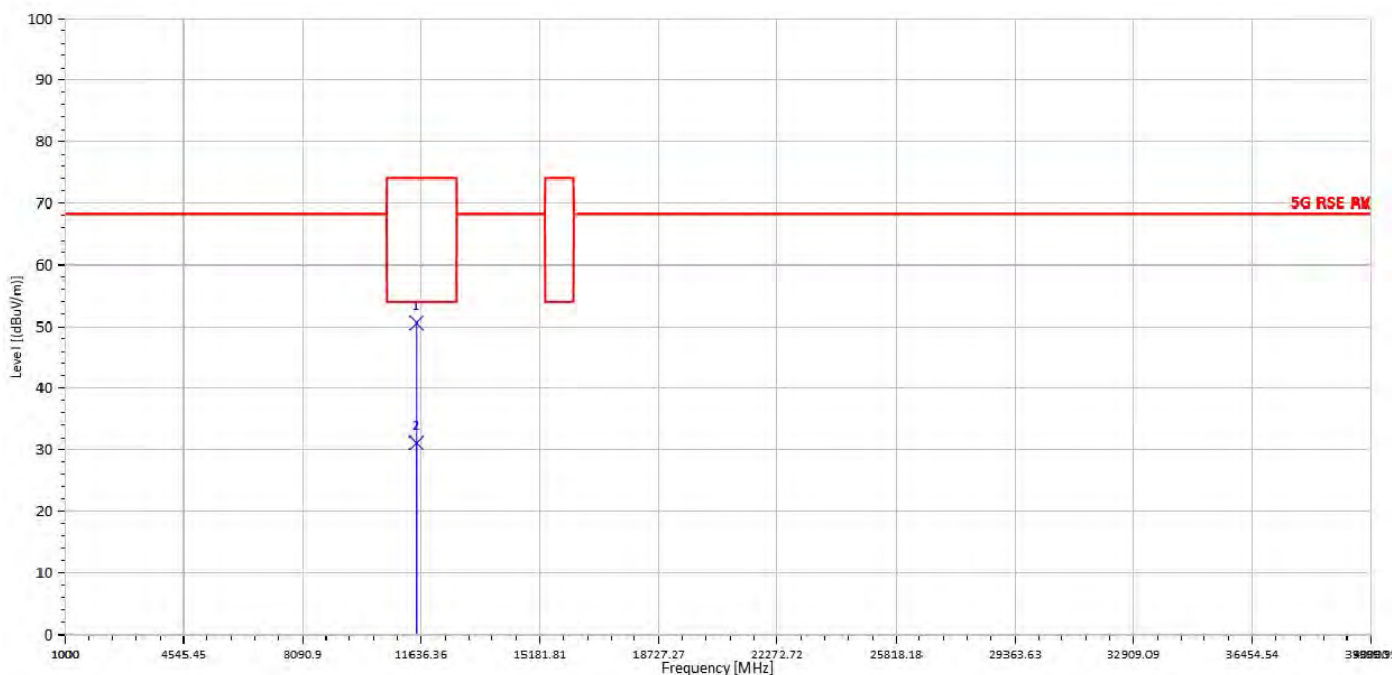
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2017/3/15
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
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	39.37	11.18	50.55	74	-23.45
11490.00	H	Average	19.93	11.18	31.11	54	-22.89

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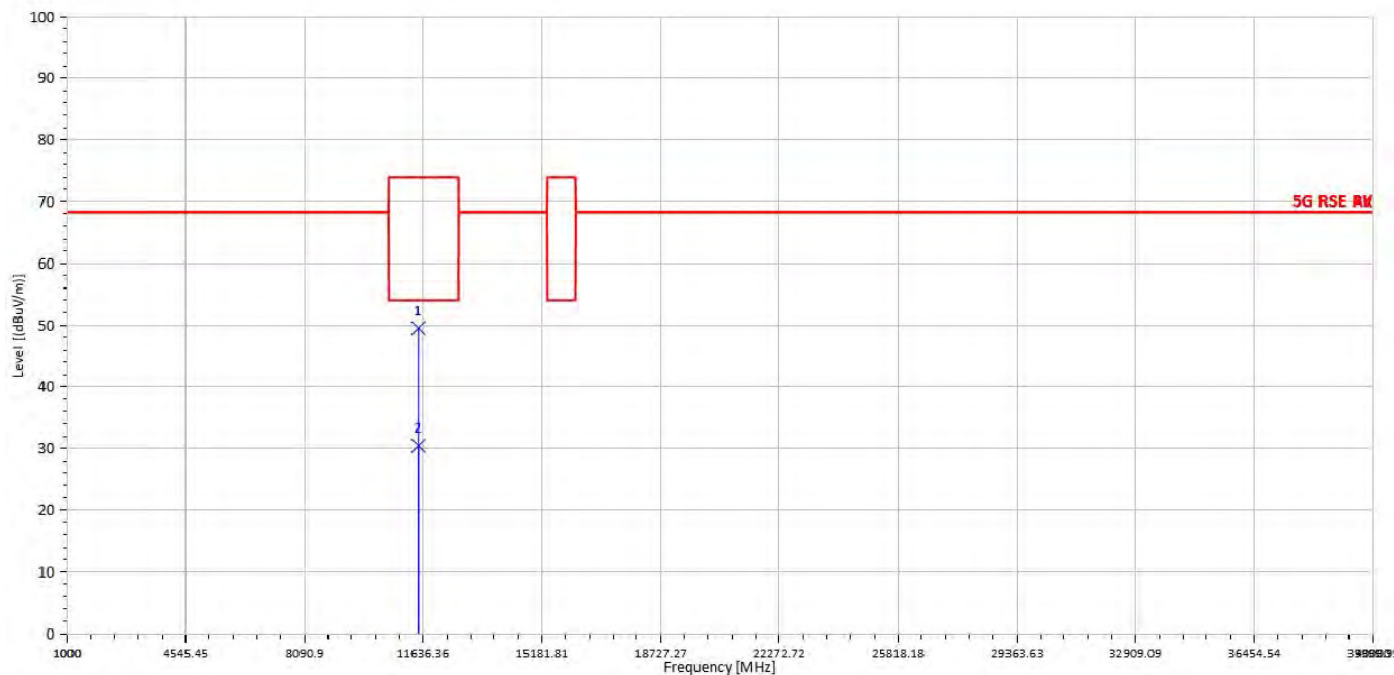
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Operation Mode :	802.11a	Test Date :	2017/3/15
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	38.31	11.18	49.49	74	-24.51
11490.00	H	Average	19.26	11.18	30.44	54	-23.56

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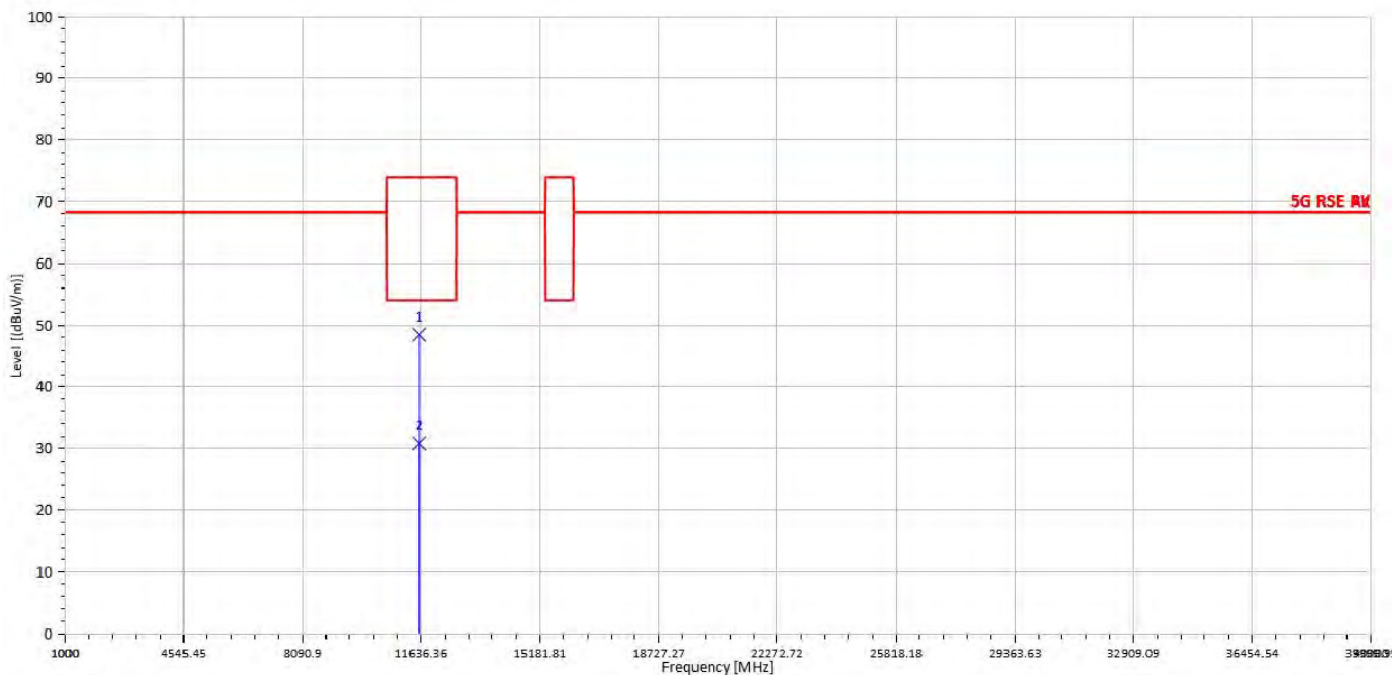
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Operation Mode : 802.11a Test Date : 2017/3/15
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	37.34	11.06	48.41	74	-25.59
11570.00	H	Average	19.76	11.06	30.82	54	-23.18

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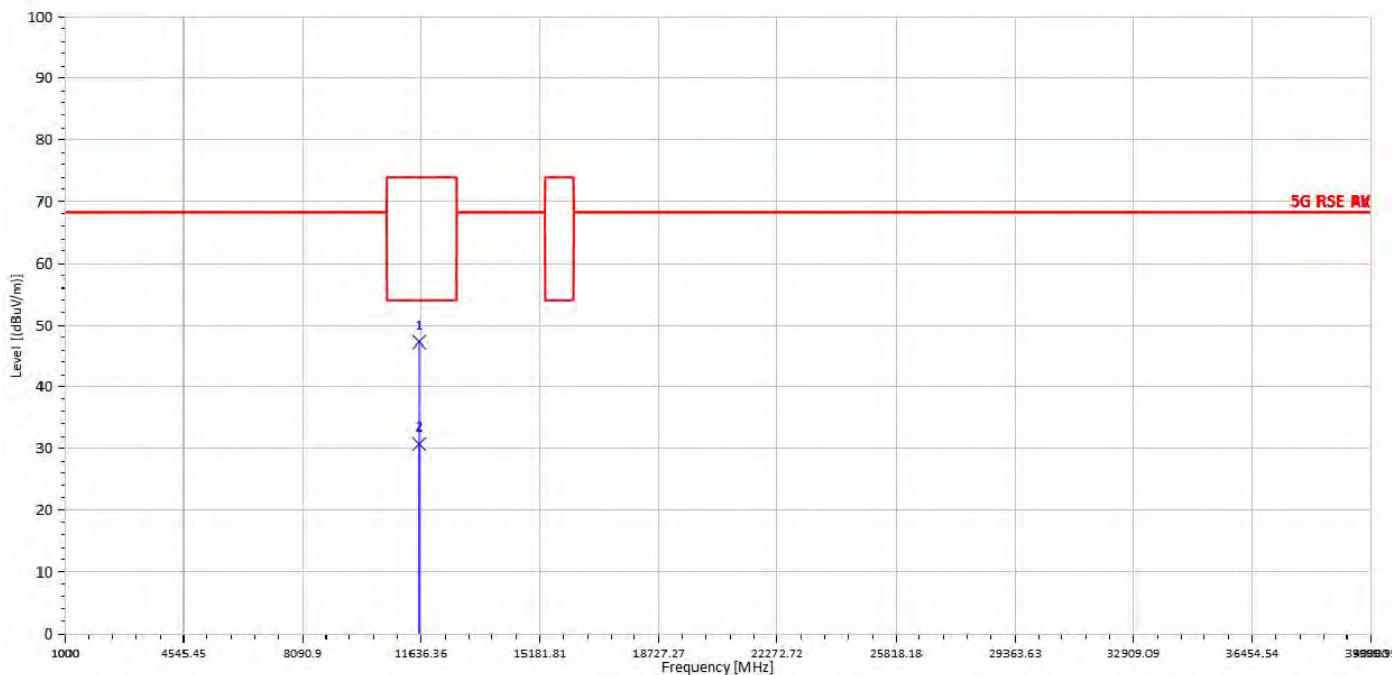
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Operation Mode : 802.11a Test Date : 2017/3/15
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	36.19	11.06	47.25	74	-26.75
11570.00	H	Average	19.64	11.06	30.70	54	-23.30

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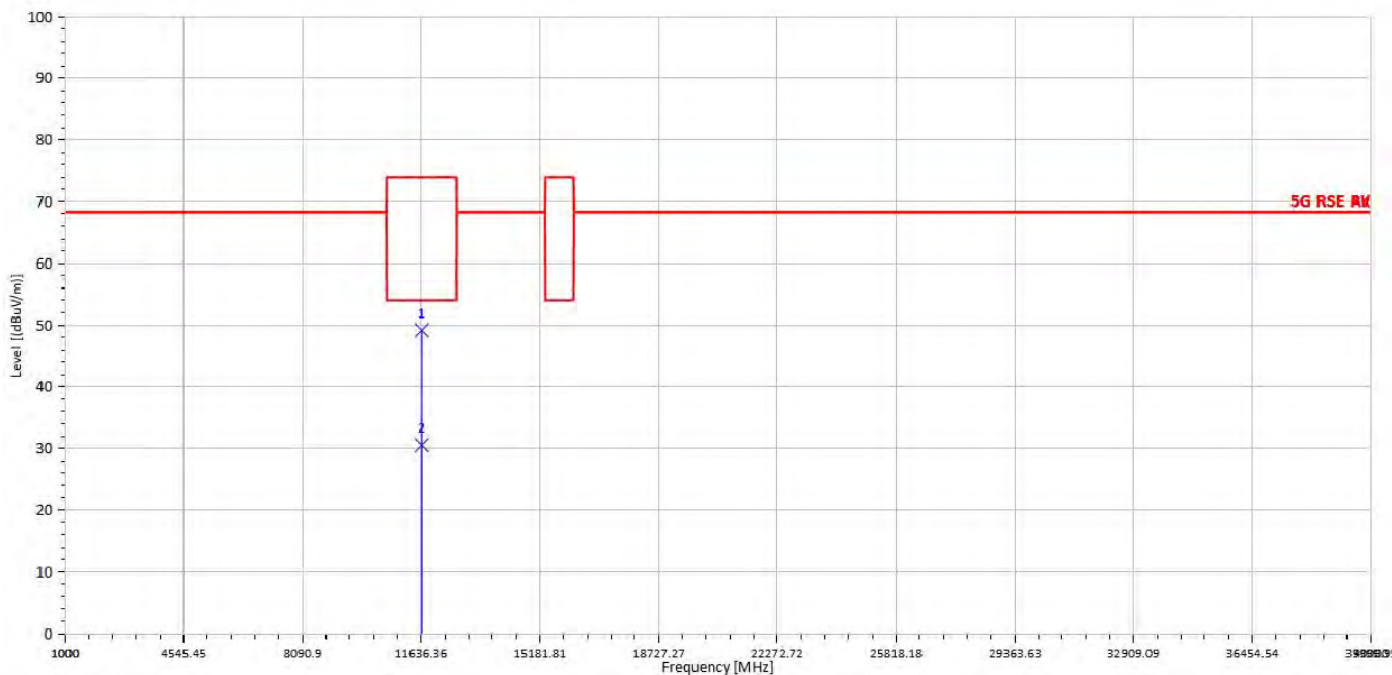
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Operation Mode :	802.11a	Test Date :	2017/3/15
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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	38.46	10.69	49.15	74	-24.85
11650.00	H	Average	19.82	10.69	30.51	54	-23.49

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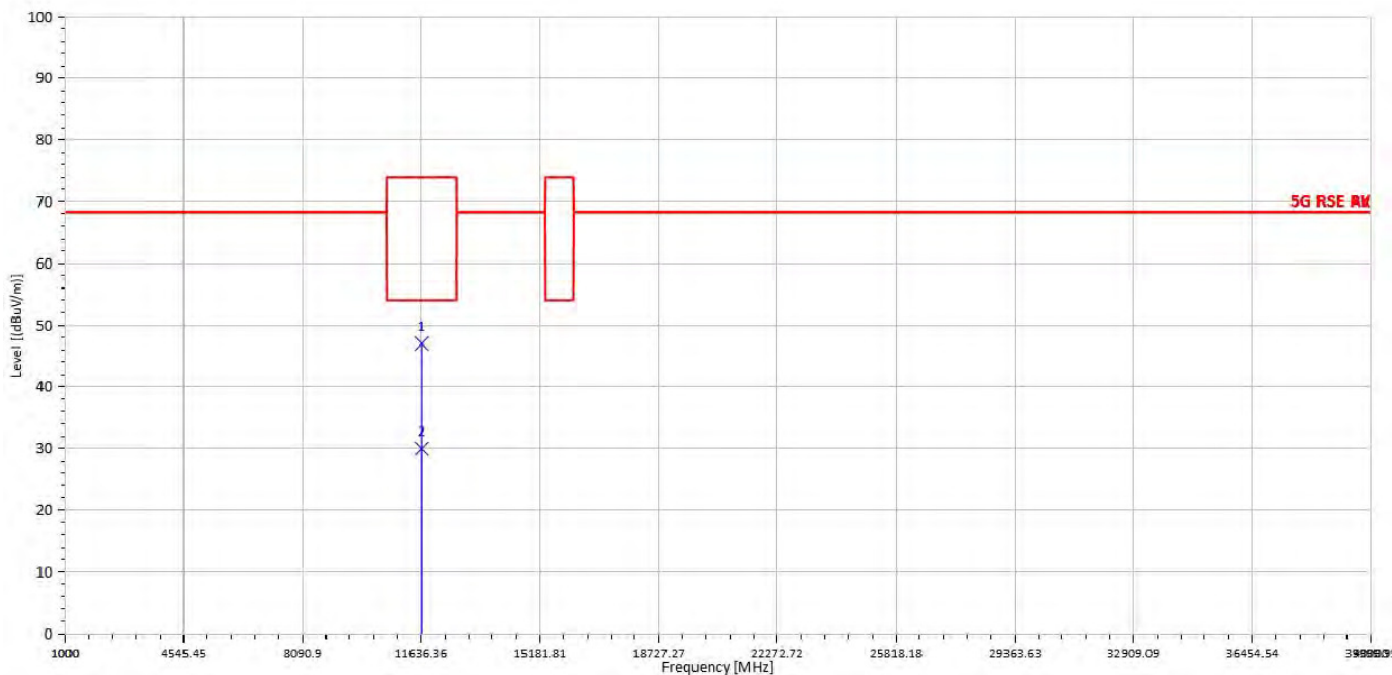
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Operation Mode :	802.11a	Test Date :	2017/3/15
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	36.30	10.69	46.99	74	-27.01
11650.00	H	Average	19.24	10.69	29.93	54	-24.07

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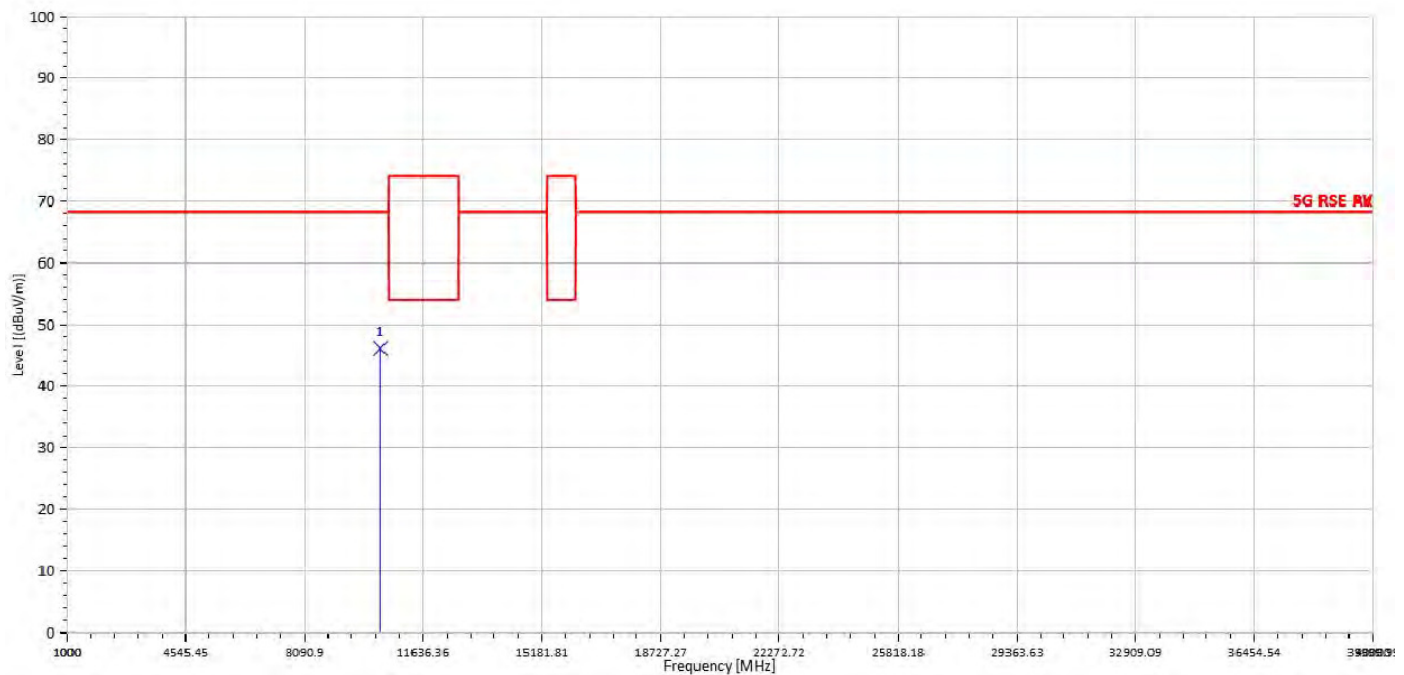
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20	Test Date :	2017/3/15
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	36.82	9.27	46.10	68.3	-22.20

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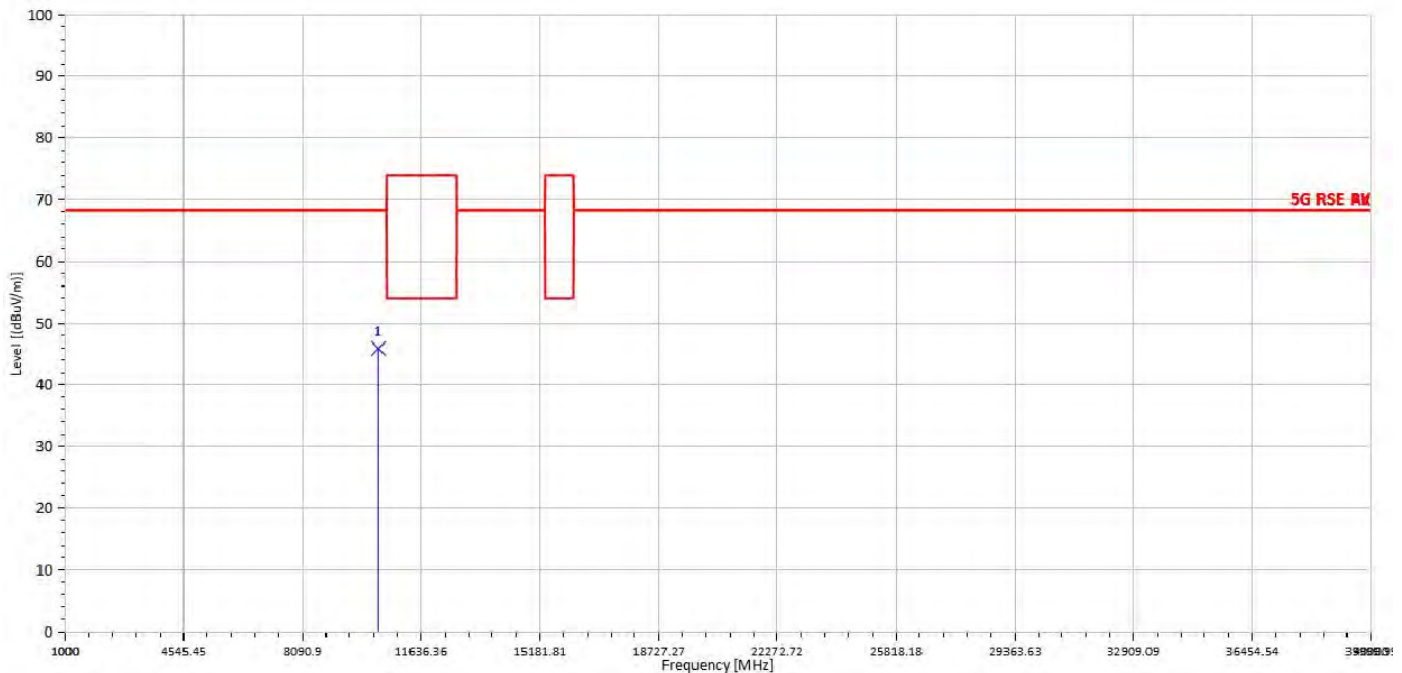
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Operation Mode :	802.11n20	Test Date :	2017/3/15
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	36.61	9.27	45.88	68.3	-22.42

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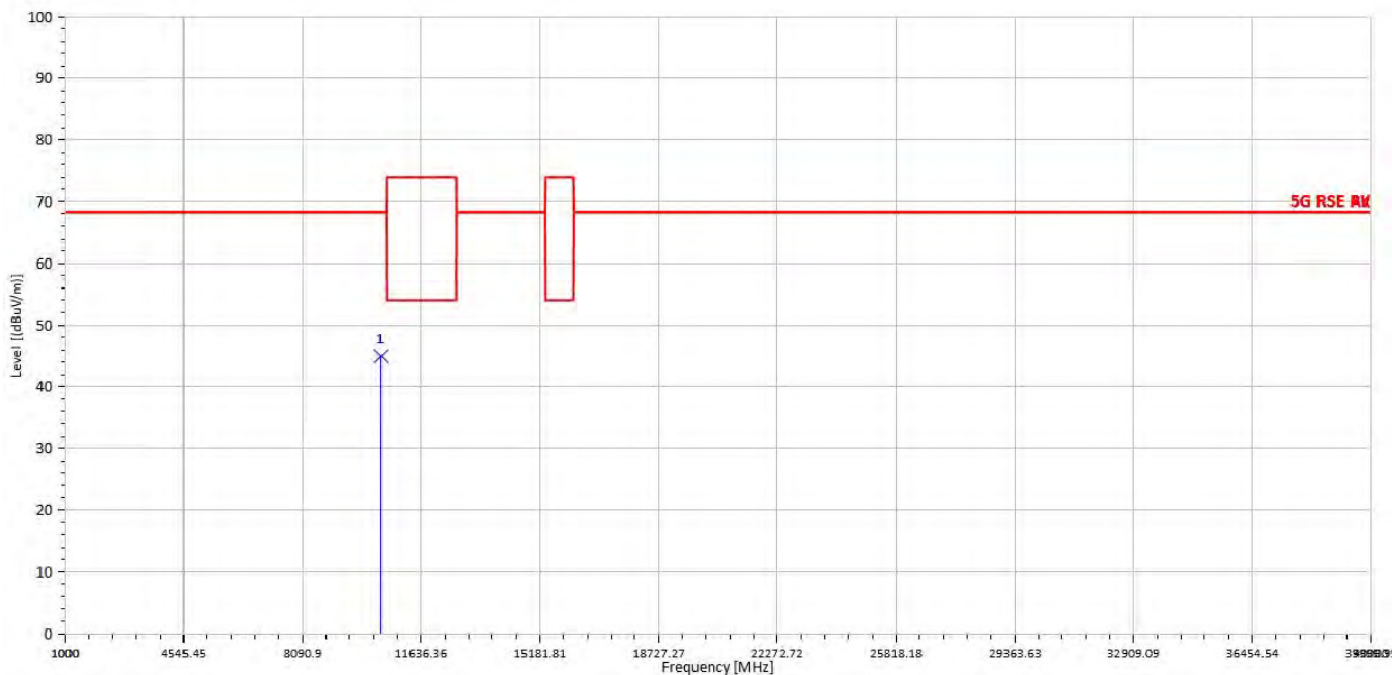
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Operation Mode : 802.11n20 Test Date : 2017/3/15
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	35.41	9.57	44.98	68.3	-23.32

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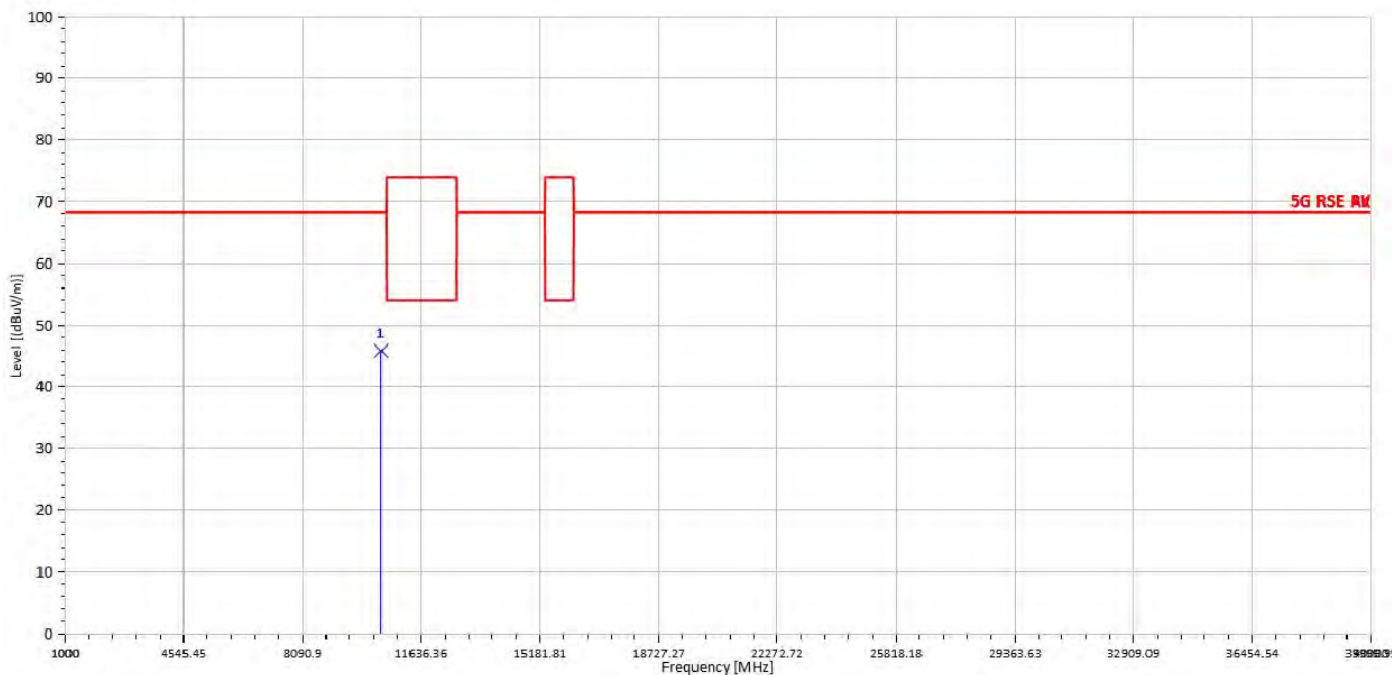
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Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	36.24	9.57	45.81	68.3	-22.49

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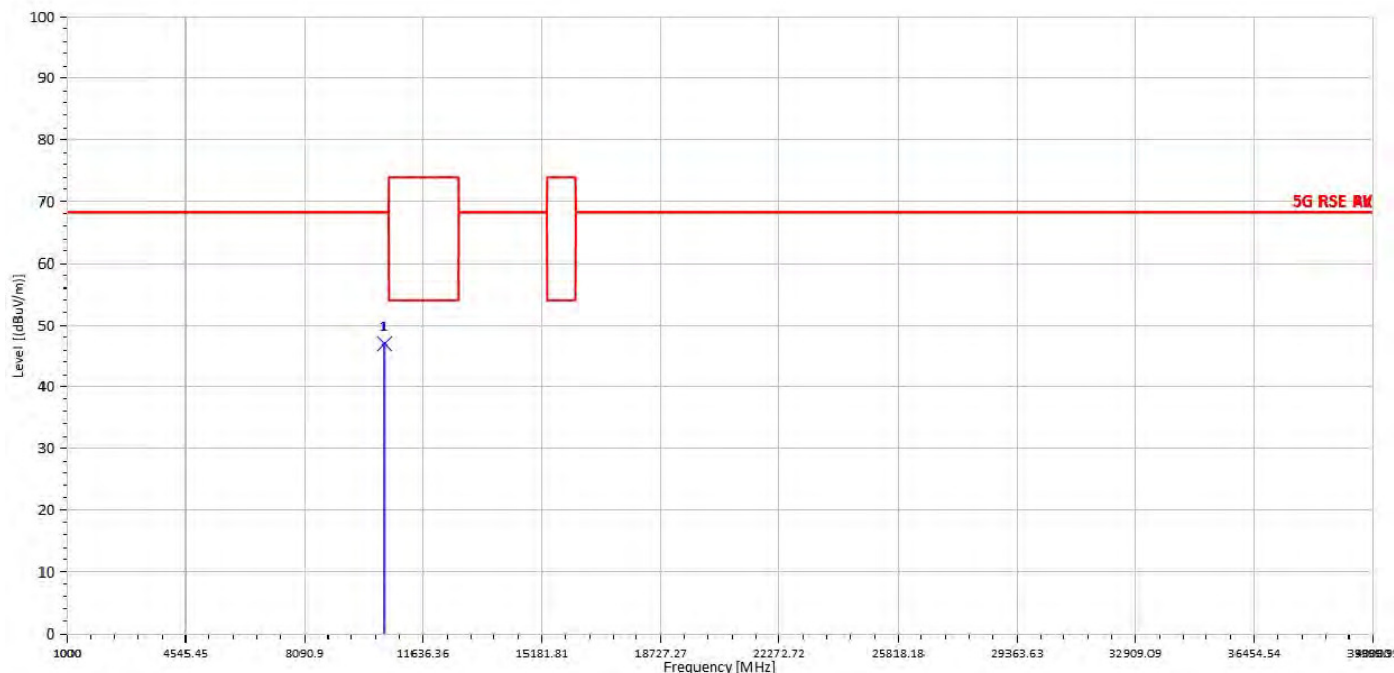
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Operation Mode : 802.11n20 Test Date : 2017/3/15
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	37.33	9.64	46.98	68.3	-21.32

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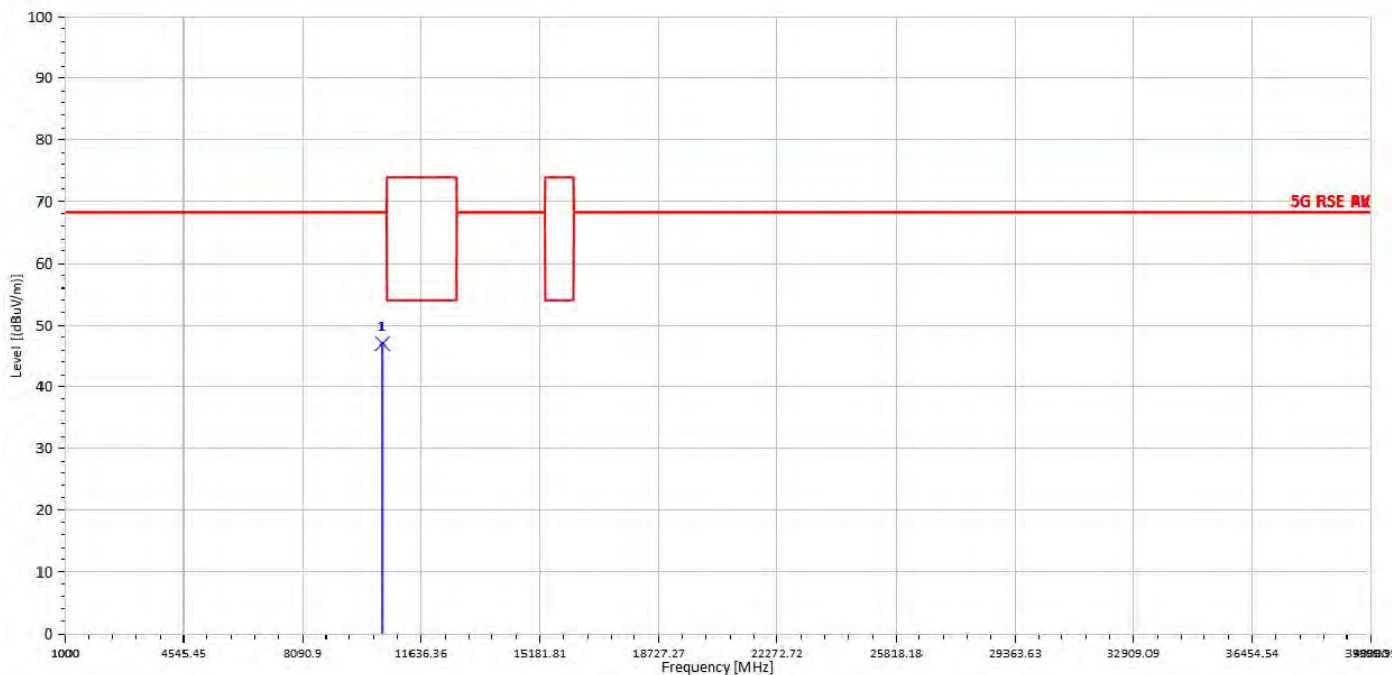
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Operation Mode : 802.11n20 Test Date : 2017/3/15
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	37.34	9.64	46.99	68.3	-21.31

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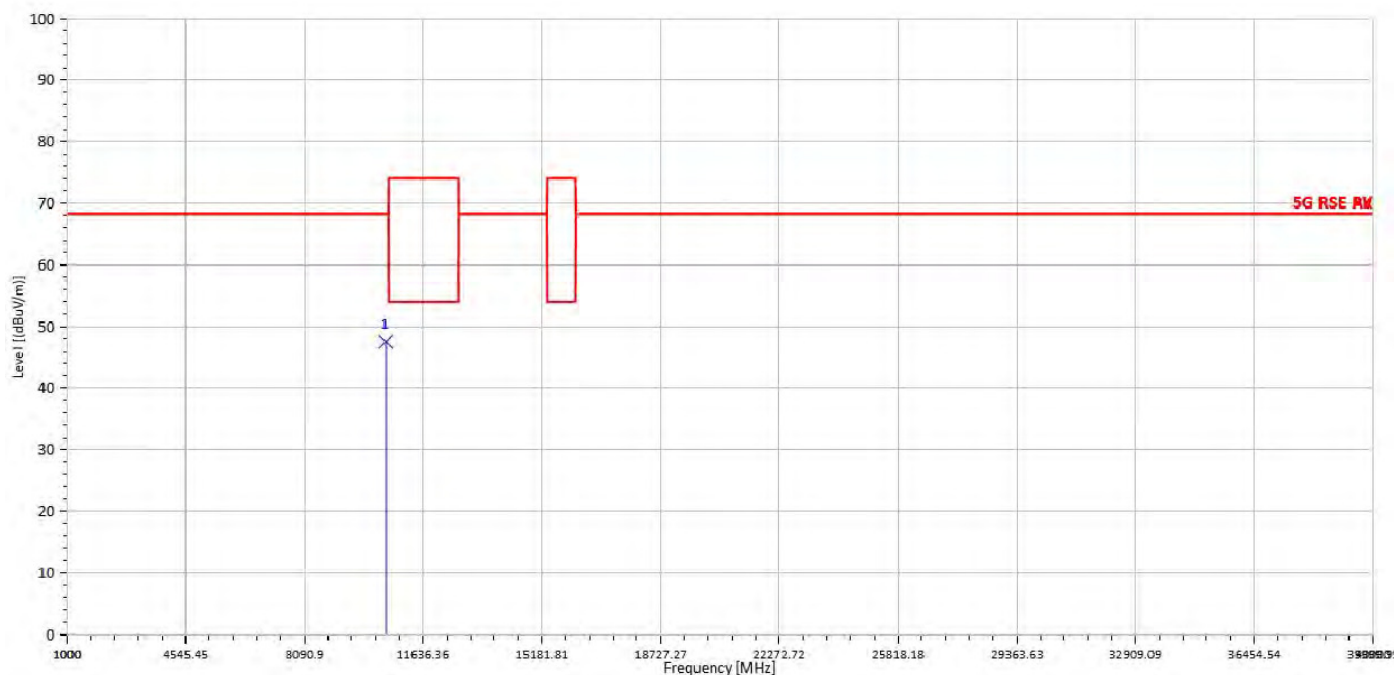
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20	Test Date :	2017/3/15
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	37.70	9.77	47.47	68.3	-20.83

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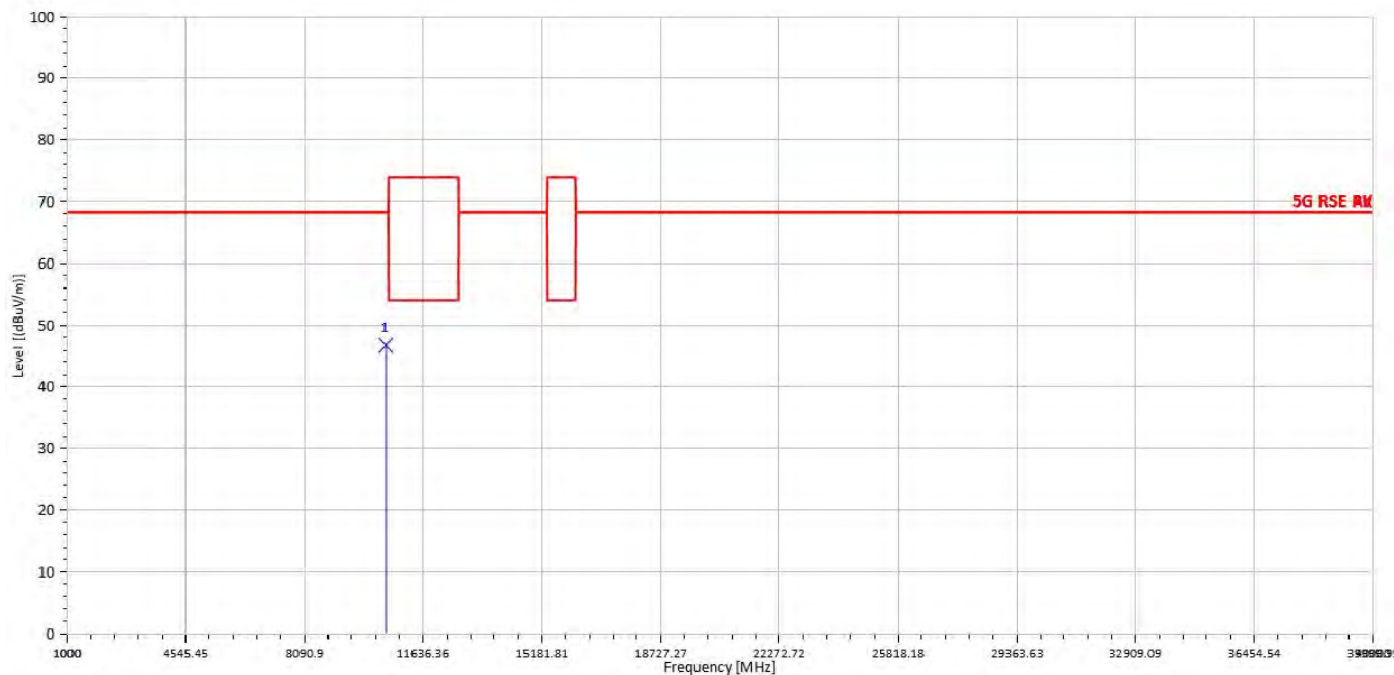
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Operation Mode :	802.11n20	Test Date :	2017/3/15
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	36.95	9.77	46.72	68.3	-21.58

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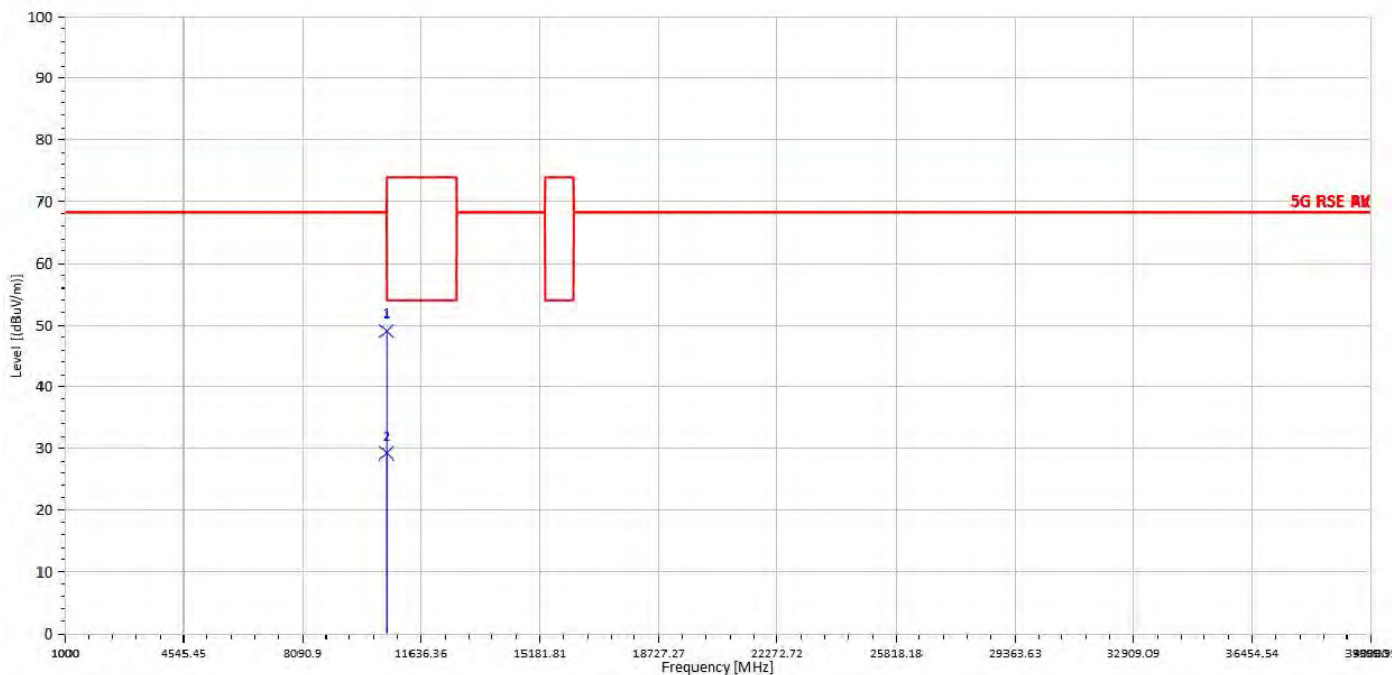
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Operation Mode : 802.11n20 Test Date : 2017/3/15
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	H	Peak	38.87	10.15	49.02	74	-24.98
10600.00	H	Average	19.08	10.15	29.23	54	-24.77

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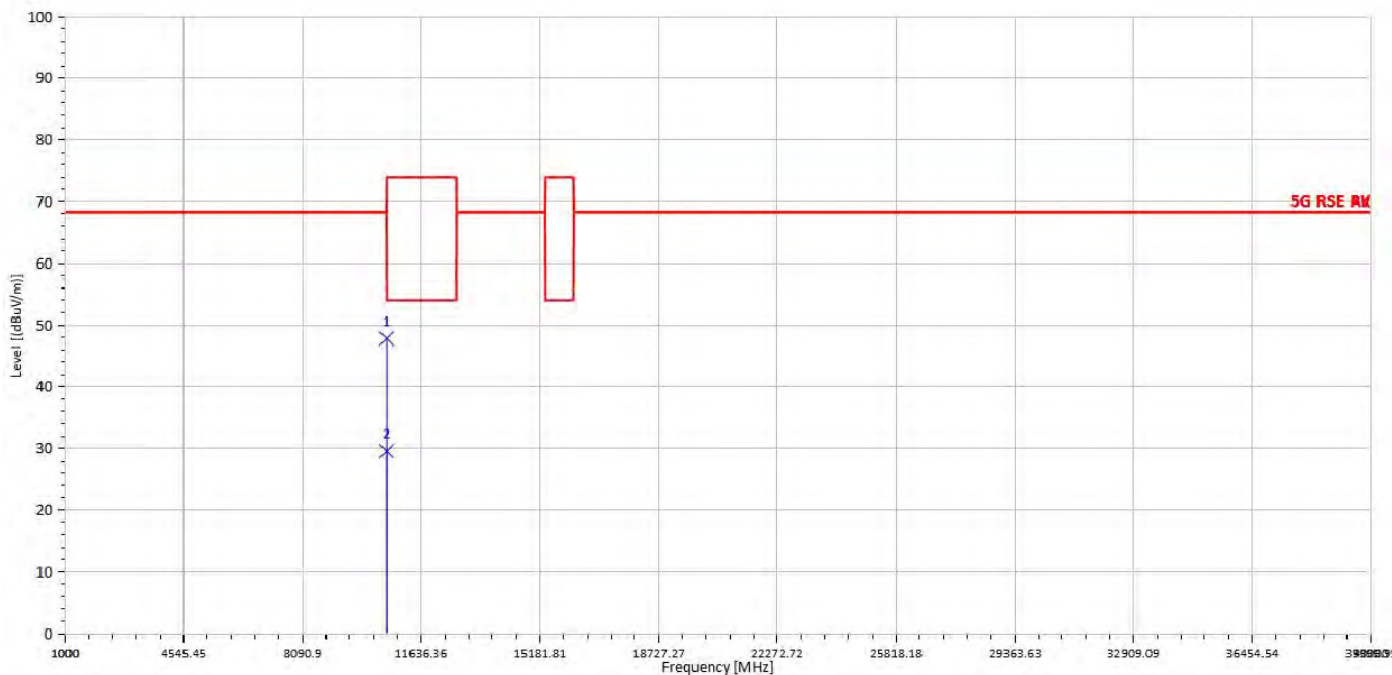
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Operation Mode : 802.11n20 Test Date : 2017/3/15
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Tank
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	H	Peak	37.66	10.15	47.81	74	-26.19
10600.00	H	Average	19.36	10.15	29.51	54	-24.49

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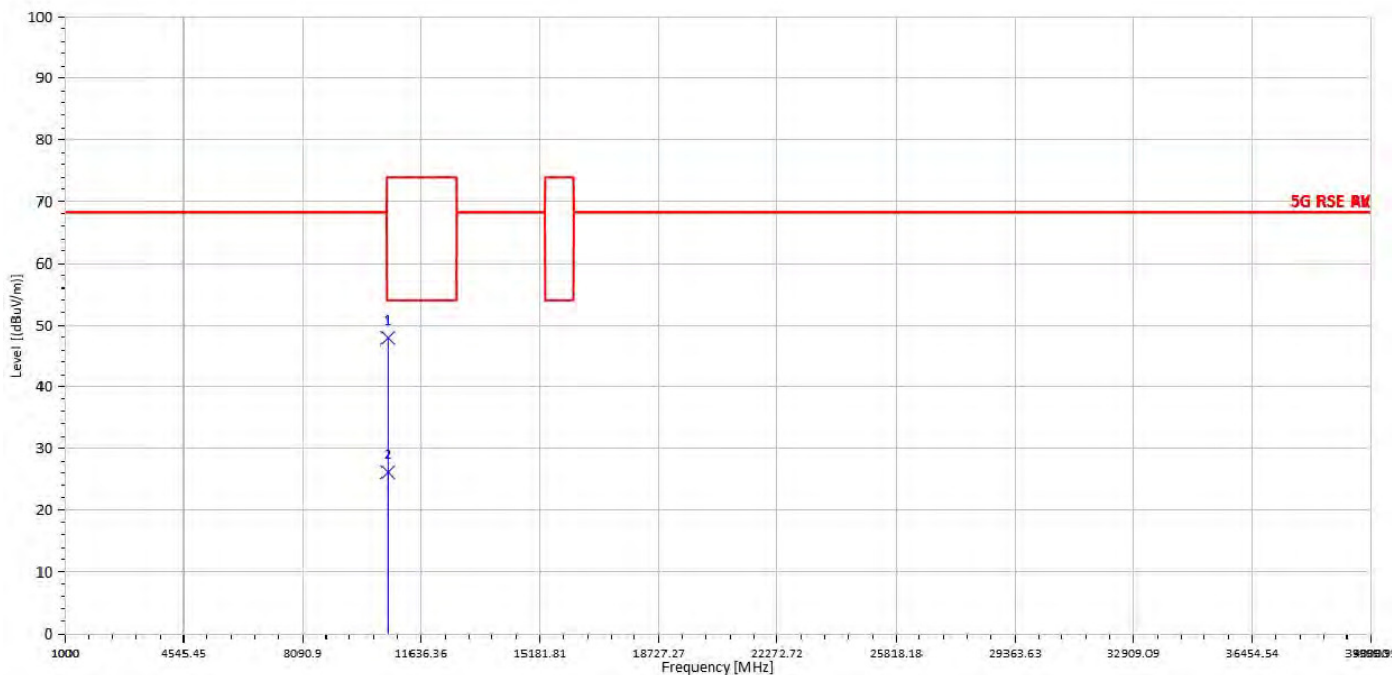
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Operation Mode :	802.11n20	Test Date :	2017/3/15
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	H	Peak	37.80	10.07	47.88	74	-26.12
10640.00	H	Average	16.07	10.07	26.14	54	-27.86

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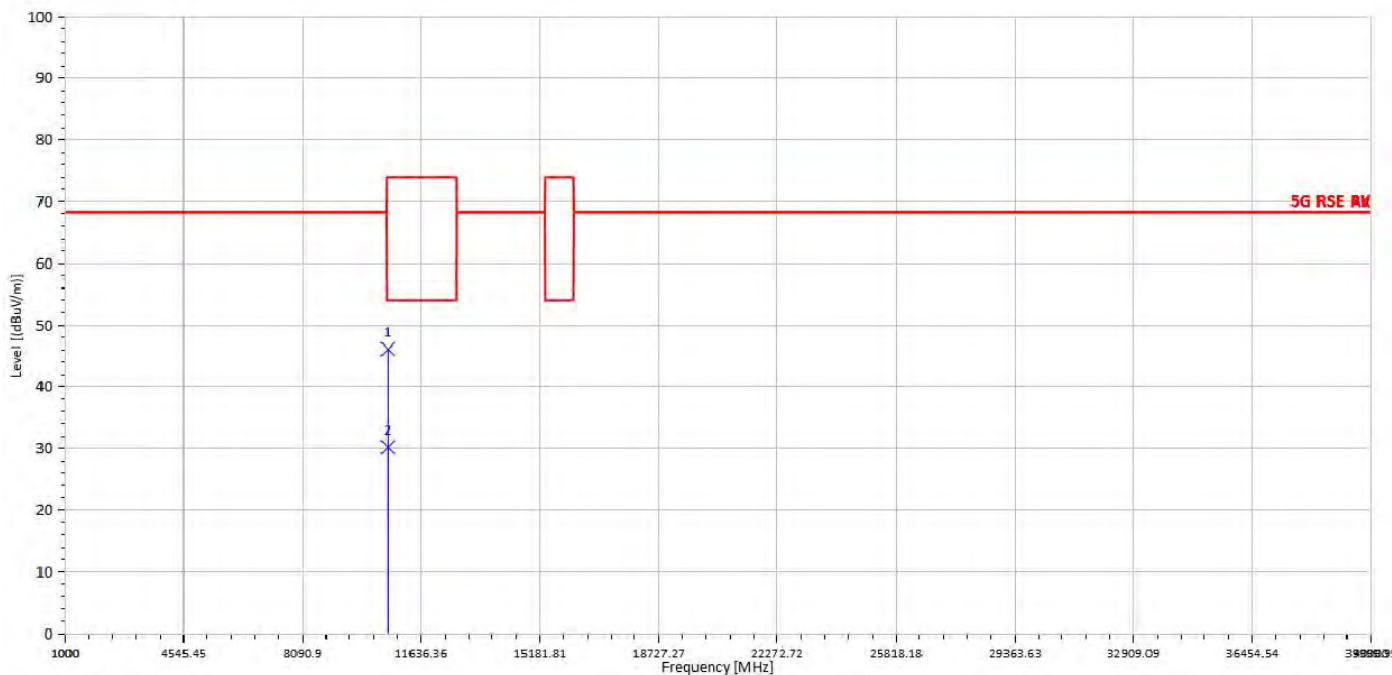
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Operation Mode :	802.11n20	Test Date :	2017/3/15
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	H	Peak	36.02	10.07	46.09	74	-27.91
10640.00	H	Average	20.11	10.07	30.18	54	-23.82

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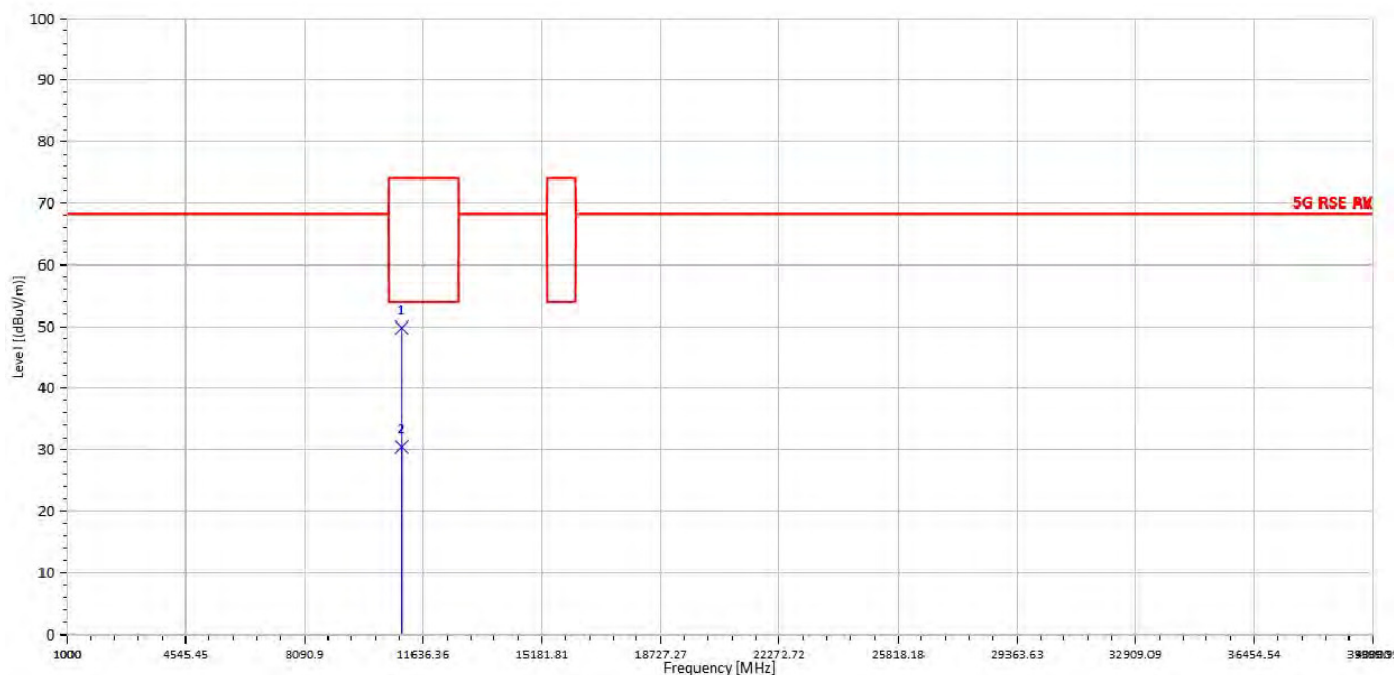
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20	Test Date :	2017/3/15
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBuV		dBuV/m	dBuV/m	
11 000.00	H	Peak	38.07	11.71	49.78	74	-24.22
11 000.00	H	Average	18.75	11.71	30.46	54	-23.54

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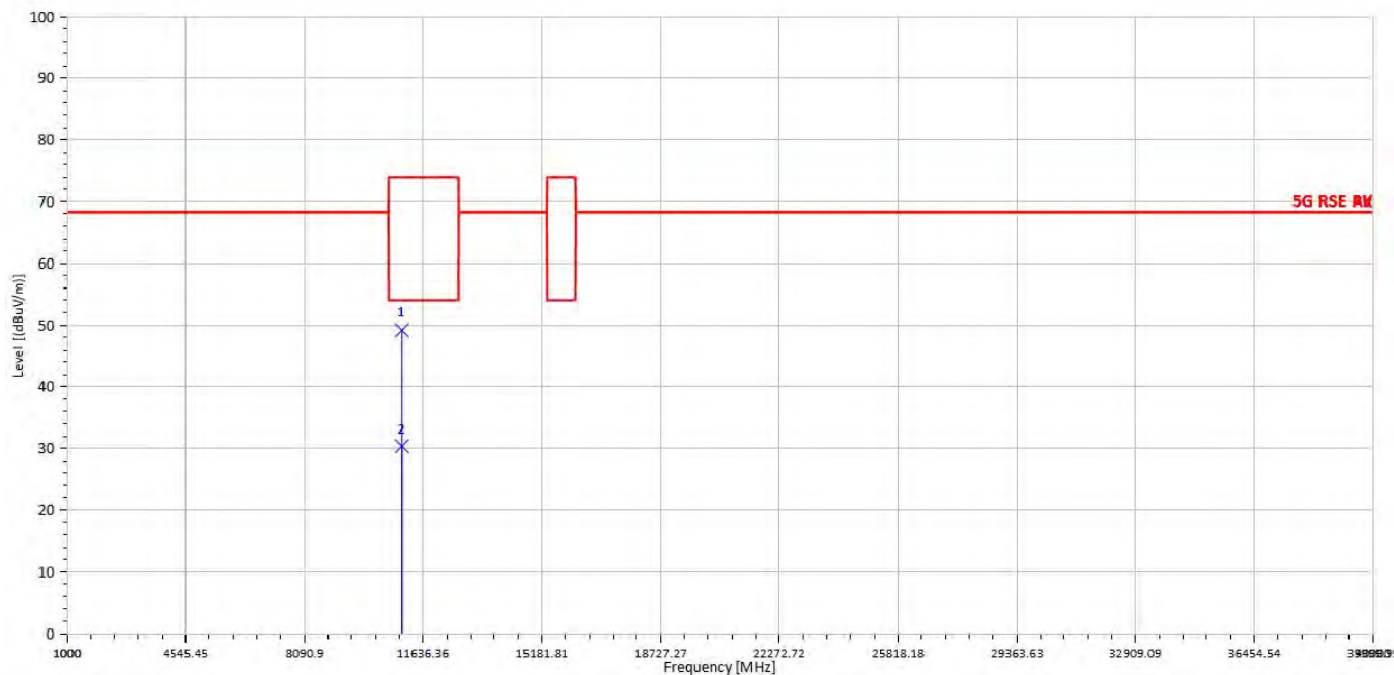
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Operation Mode :	802.11n20	Test Date :	2017/3/15
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11 000.00	H	Peak	37.44	11.71	49.15	74	-24.85
11 000.00	H	Average	18.65	11.71	30.36	54	-23.64

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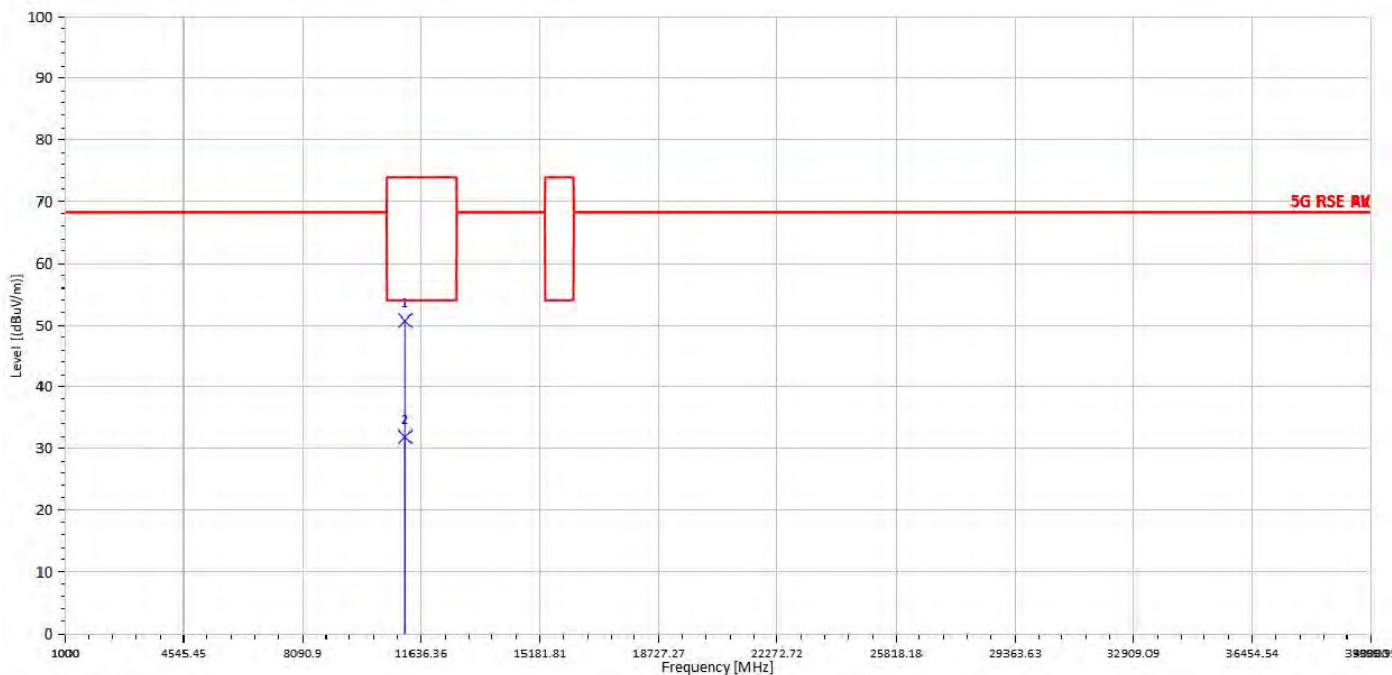
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Operation Mode : 802.11n20 Test Date : 2017/3/15
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH MID Test Engineer : Tank
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	39.20	11.51	50.71	74	-23.29
11160.00	H	Average	20.40	11.51	31.91	54	-22.09

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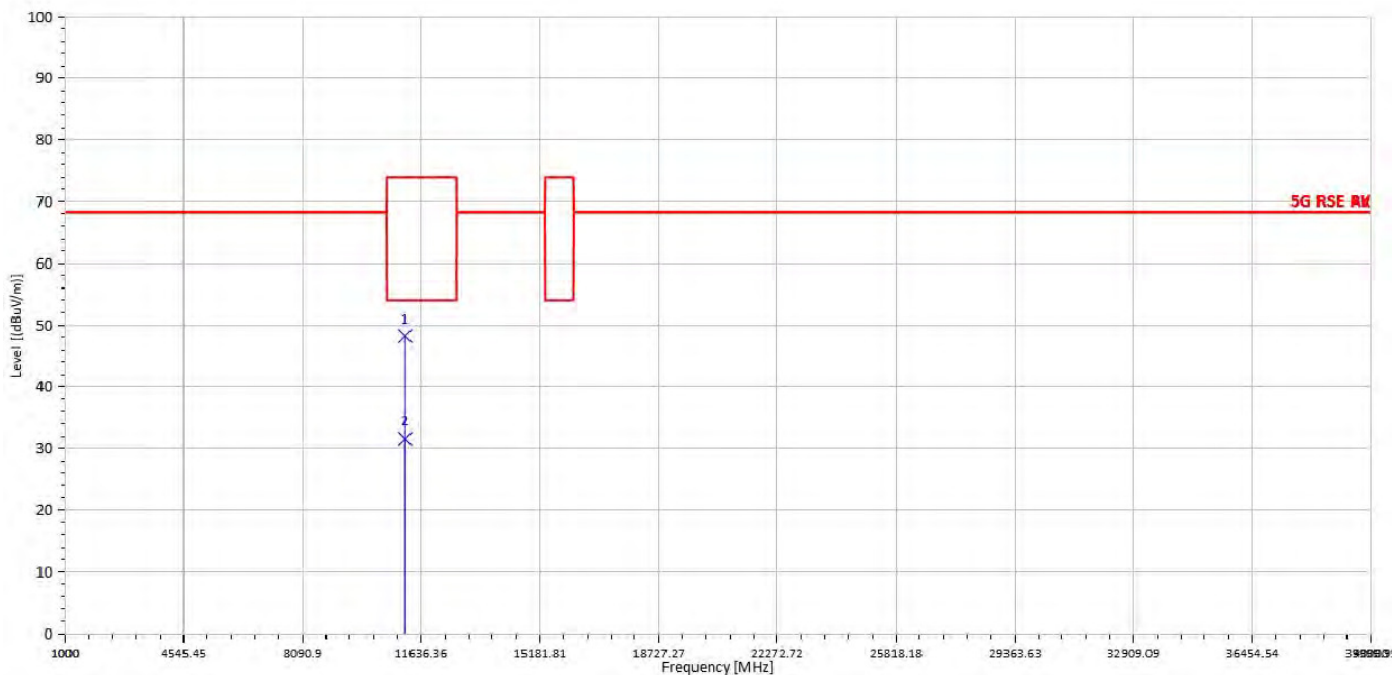
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Operation Mode : 802.11n20 Test Date : 2017/3/15
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	36.69	11.51	48.20	74	-25.80
11160.00	H	Average	20.06	11.51	31.57	54	-22.43

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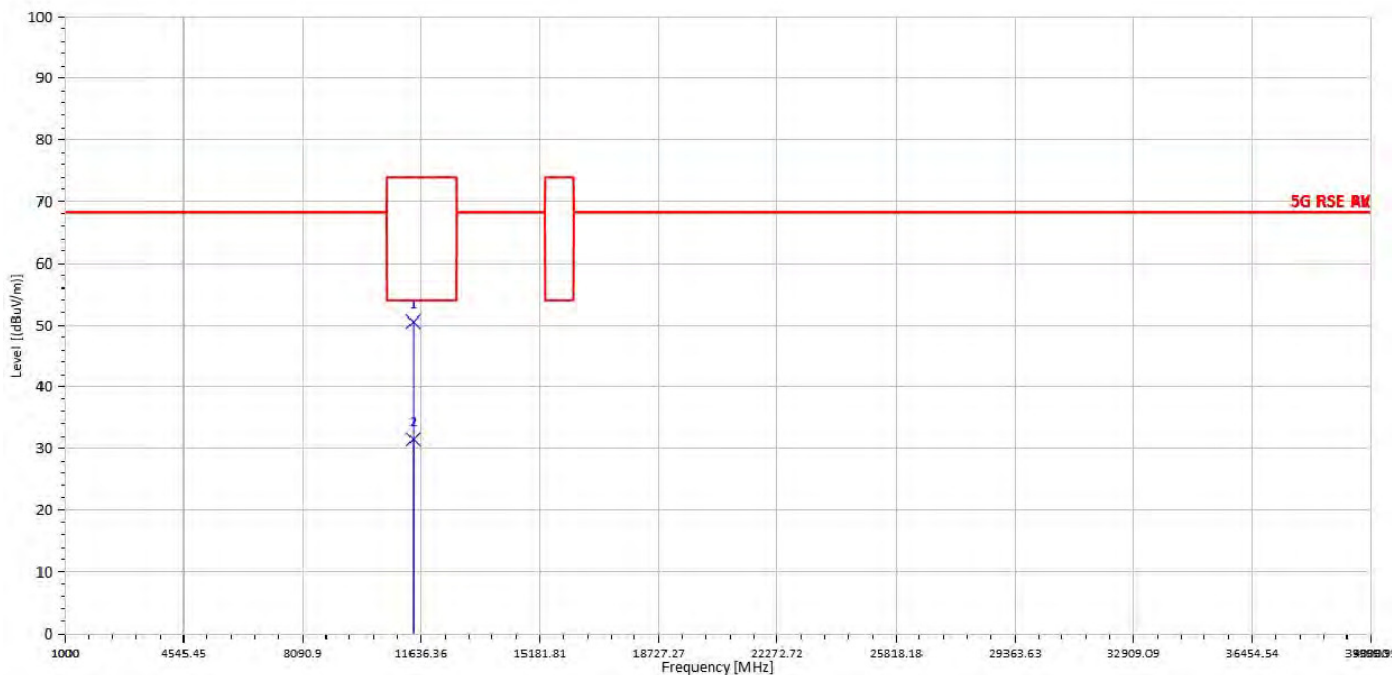
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Operation Mode :	802.11n20	Test Date :	2017/3/15
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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	38.92	11.60	50.52	74	-23.48
11400.00	H	Average	19.92	11.60	31.52	54	-22.48

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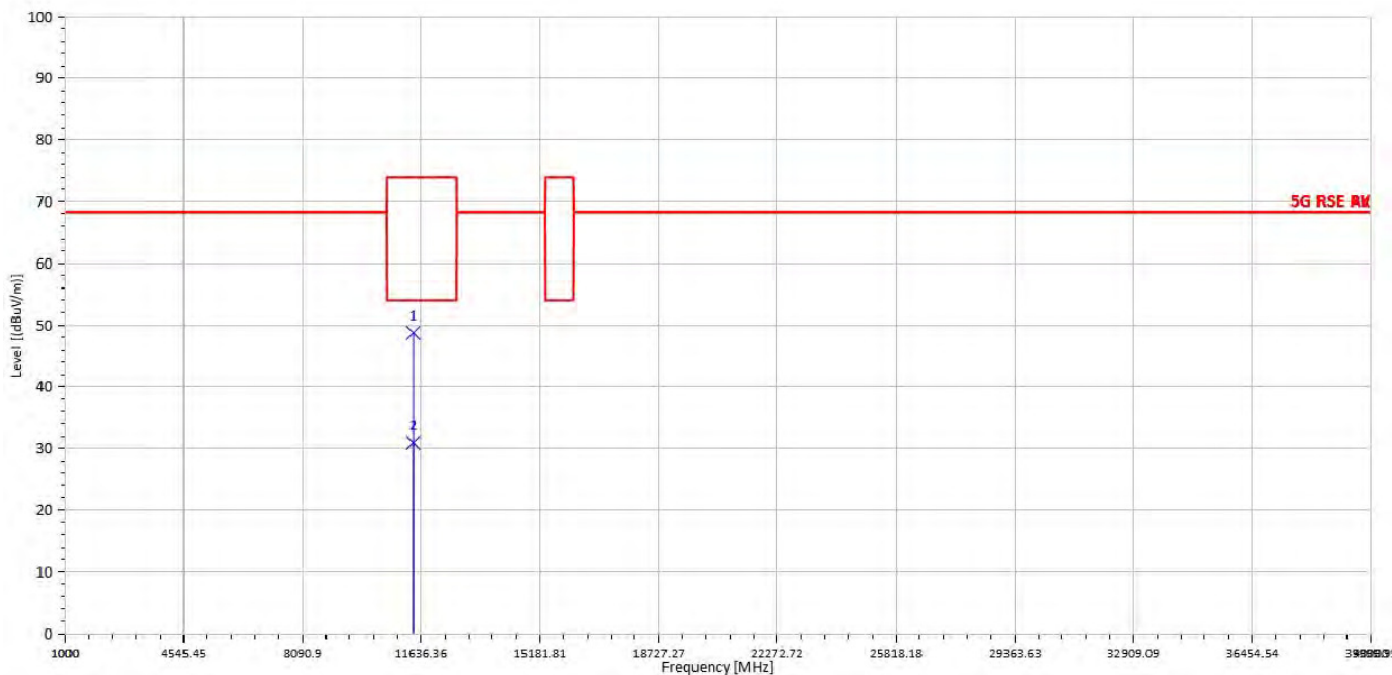
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Operation Mode :	802.11n20	Test Date :	2017/3/15
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	37.12	11.60	48.72	74	-25.28
11400.00	H	Average	19.32	11.60	30.92	54	-23.08

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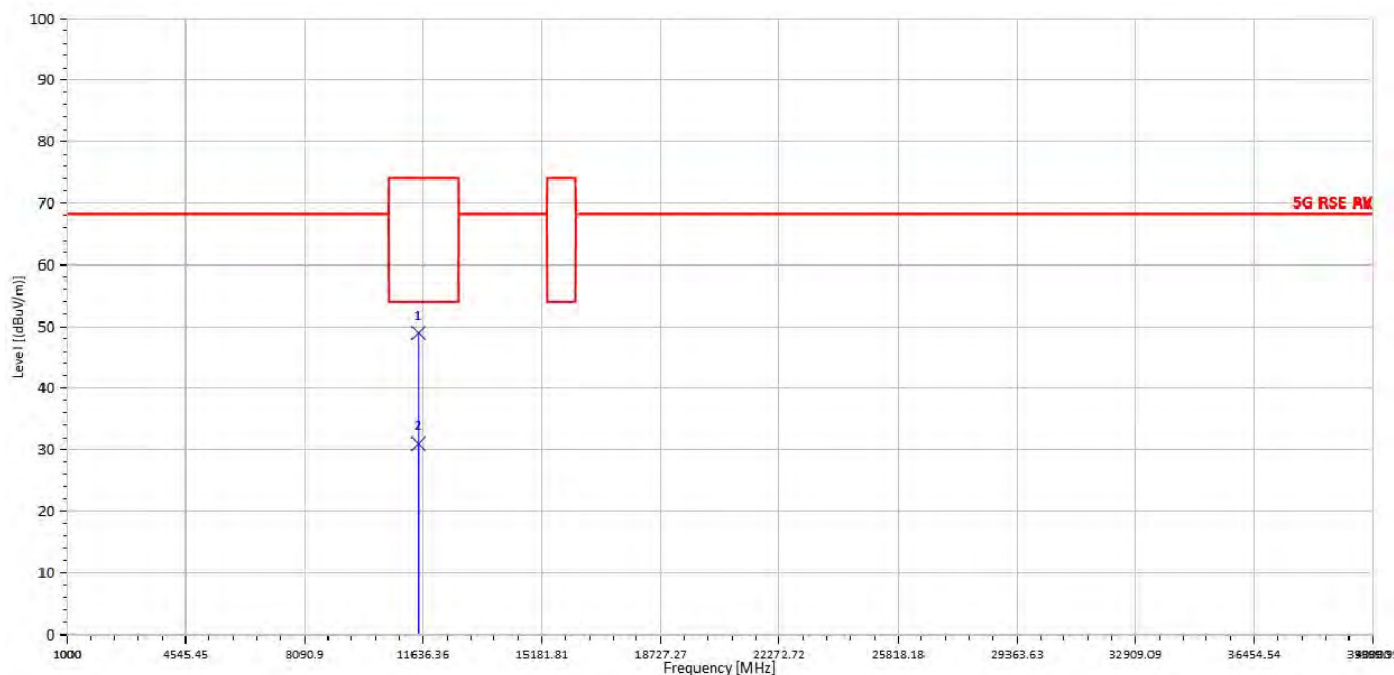
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20	Test Date :	2017/3/15
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11490.00	H	Peak	37.76	11.18	48.94	74	-25.06
11490.00	H	Average	19.80	11.18	30.98	54	-23.02

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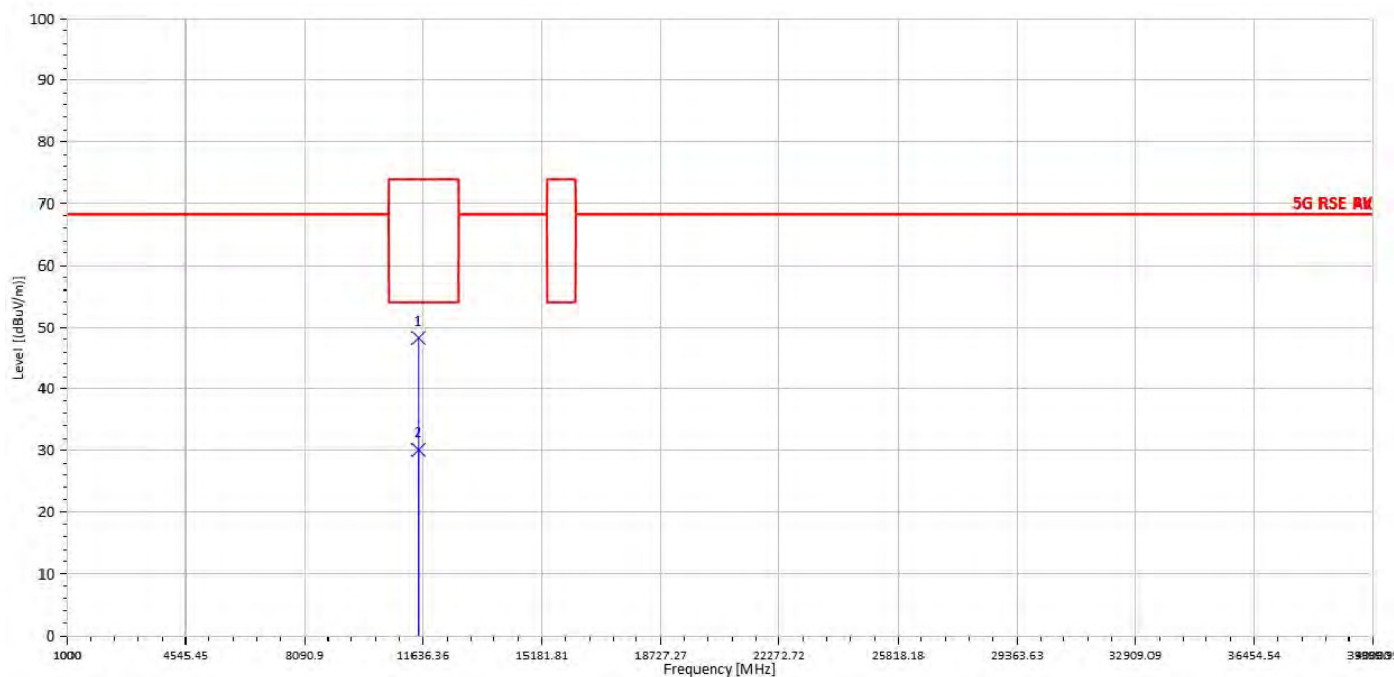
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Operation Mode : 802.11n20 Test Date : 2017/3/15
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH LOW Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	37.01	11.18	48.19	74	-25.81
11490.00	H	Average	18.89	11.18	30.07	54	-23.93

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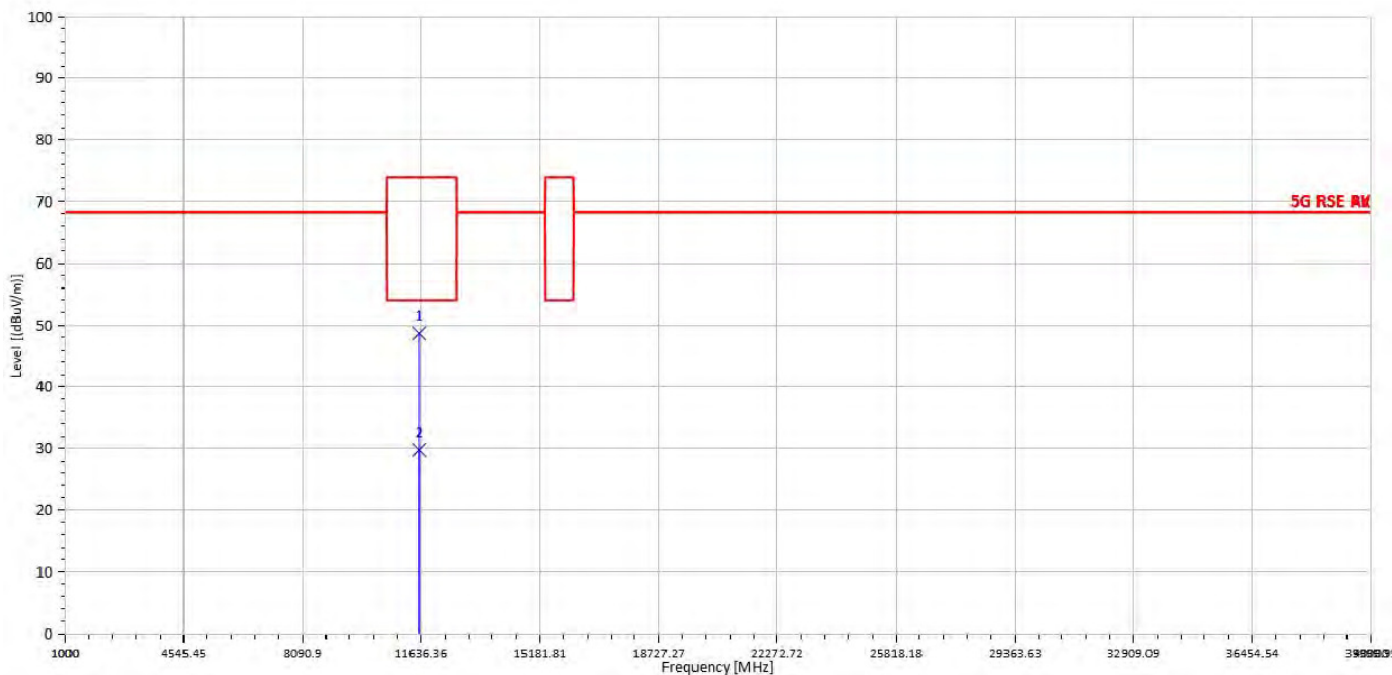
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Operation Mode : 802.11n20 Test Date : 2017/3/15
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	37.57	11.06	48.64	74	-25.36
11570.00	H	Average	18.65	11.06	29.71	54	-24.29

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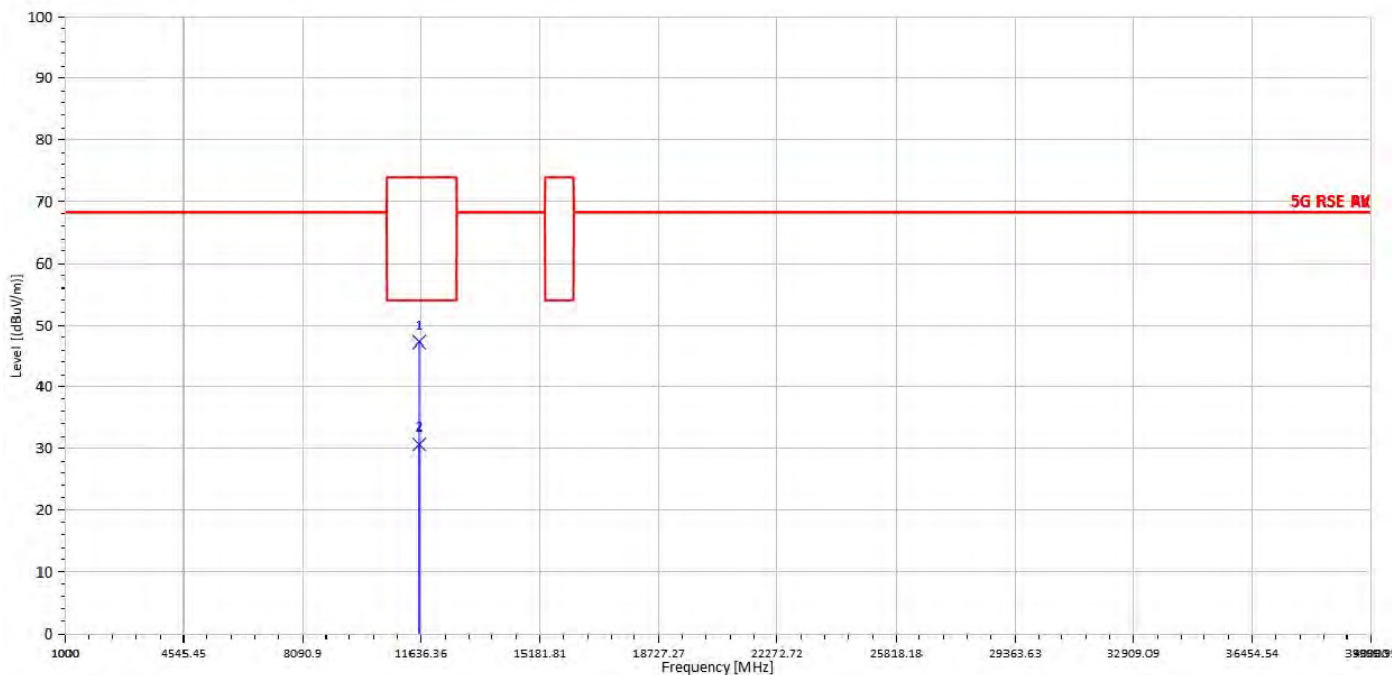
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Operation Mode : 802.11n20 Test Date : 2017/3/15
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	36.18	11.06	47.24	74	-26.76
11570.00	H	Average	19.58	11.06	30.64	54	-23.36

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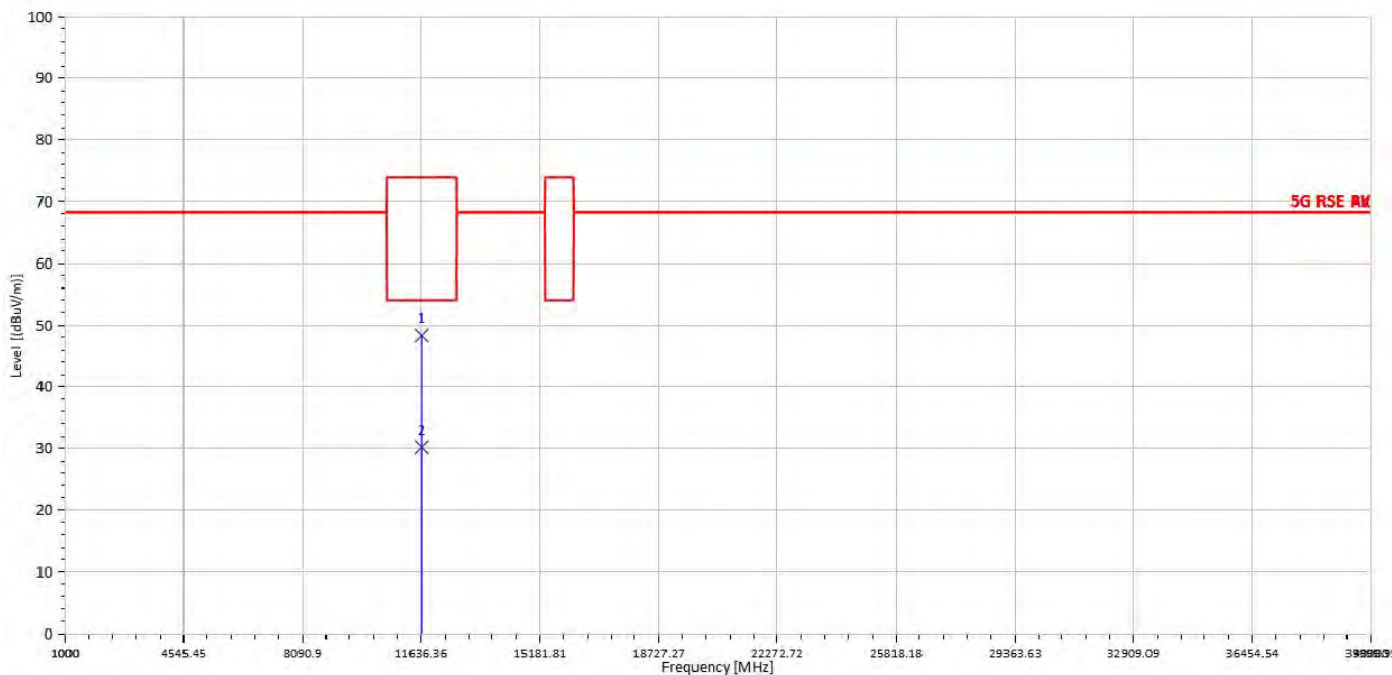
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Operation Mode :	802.11n20	Test Date :	2017/3/15
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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	37.59	10.69	48.28	74	-25.72
11650.00	H	Average	19.49	10.69	30.18	54	-23.82

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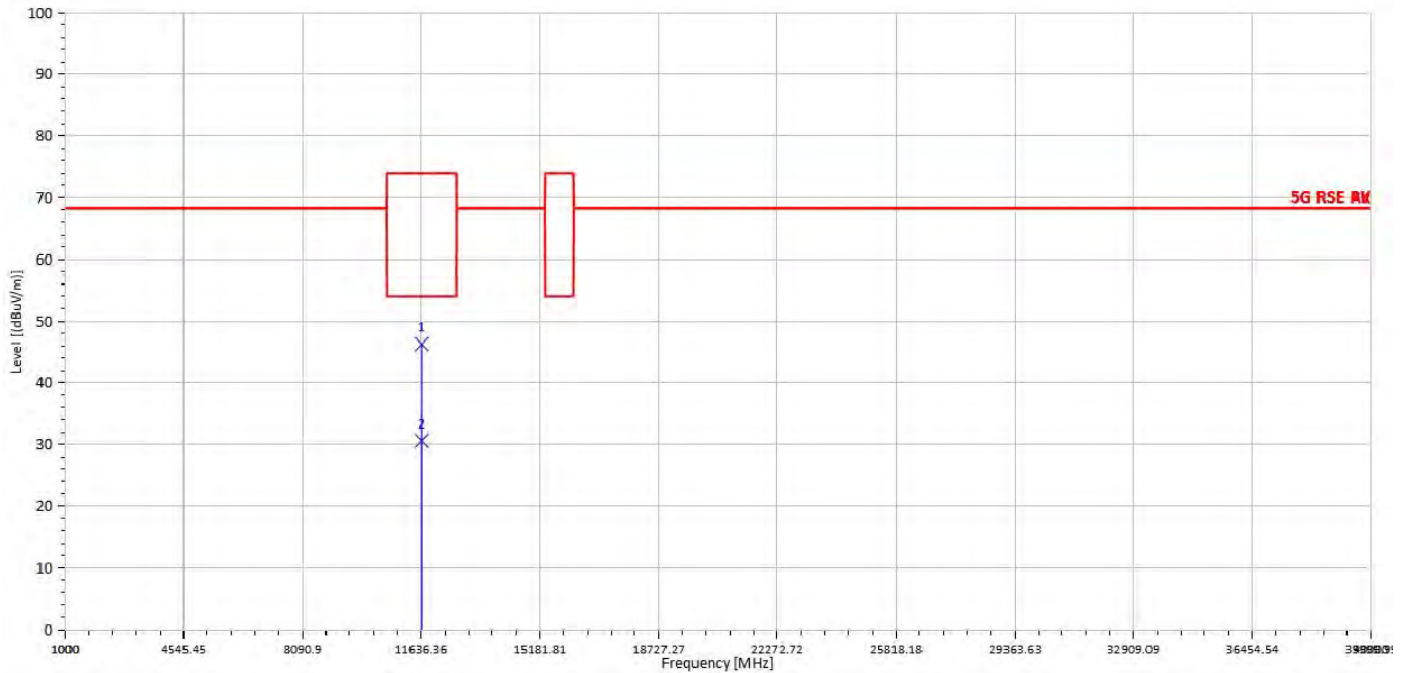
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Operation Mode : 802.11n20 Test Date : 2017/3/15
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	35.58	10.69	46.27	74	-27.73
11650.00	H	Average	19.89	10.69	30.58	54	-23.42

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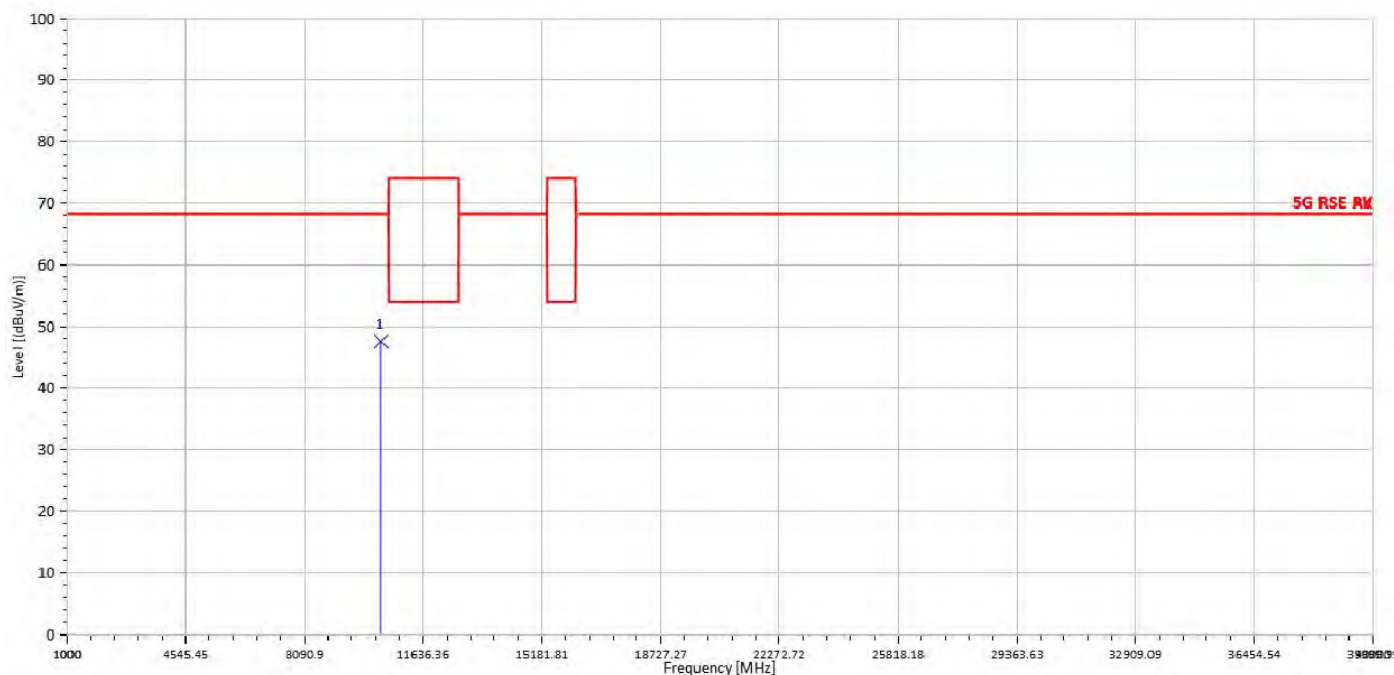
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40	Test Date :	2017/3/15
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10380.00	H	Peak	38.13	9.38	47.51	68.3	-20.79

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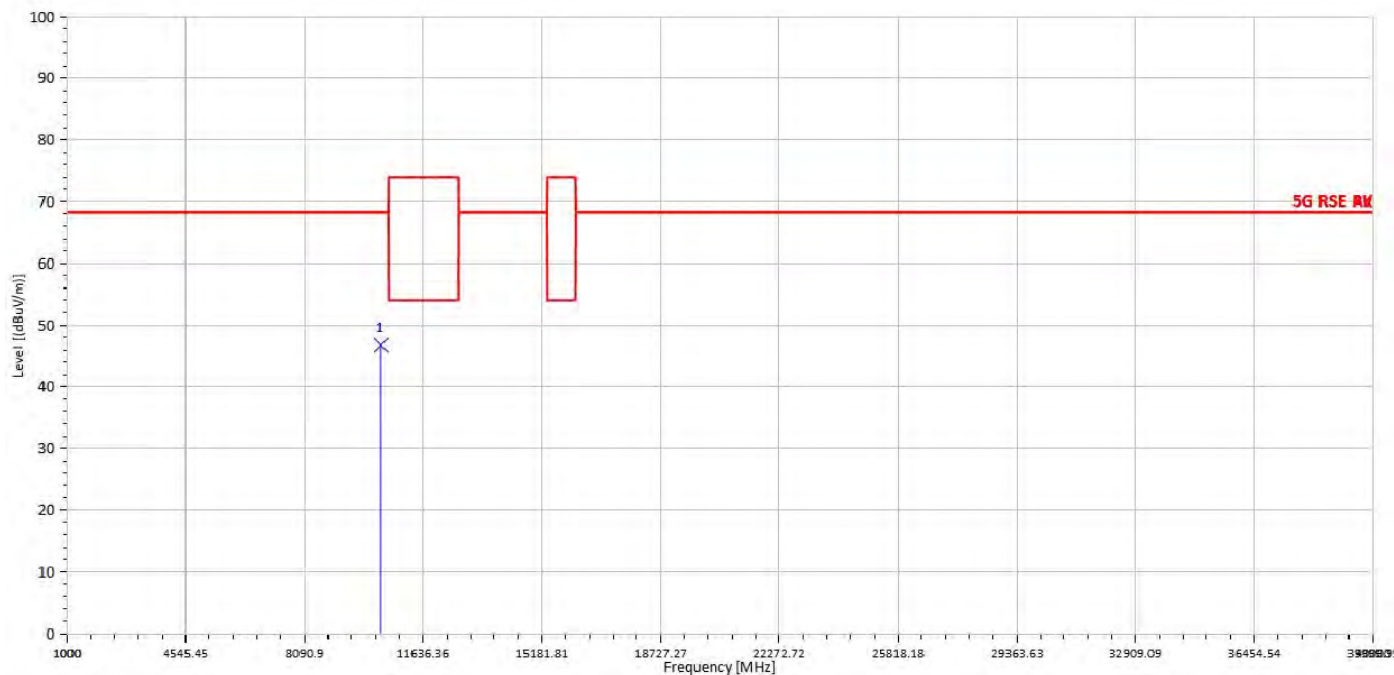
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Operation Mode : 802.11n40 Test Date : 2017/3/15
Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH LOW Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	37.35	9.38	46.73	68.3	-21.57

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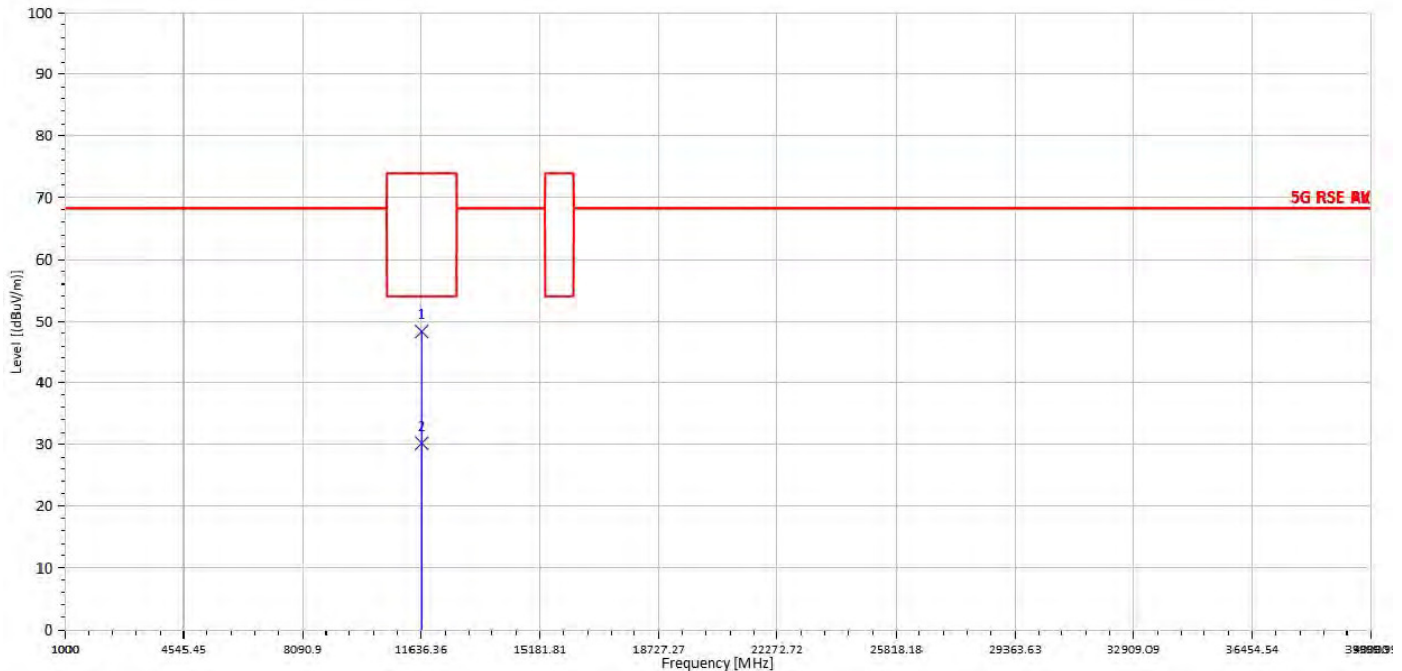
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Operation Mode : 802.11n20 Test Date : 2017/3/15
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	37.59	10.69	48.28	74	-25.72
11650.00	H	Average	19.49	10.69	30.18	54	-23.82

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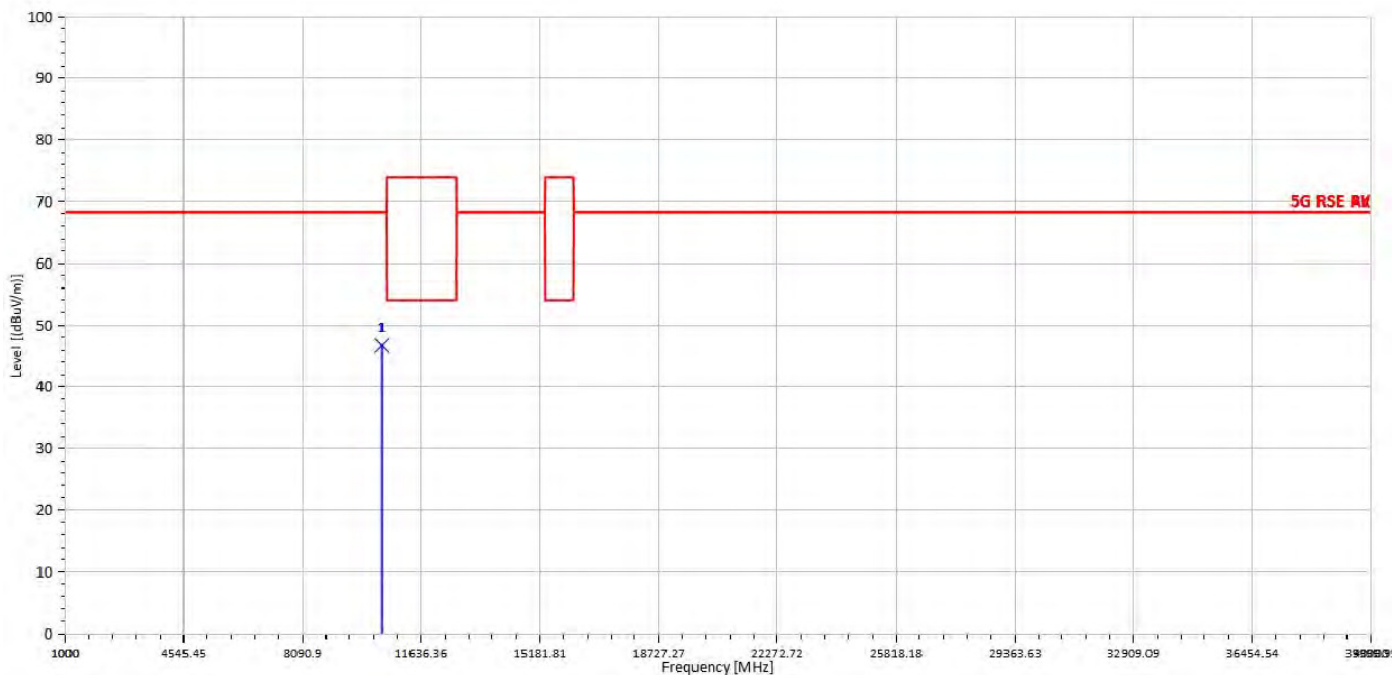
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Operation Mode :	802.11n40	Test Date :	2017/3/15
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	37.09	9.61	46.69	68.3	-21.61

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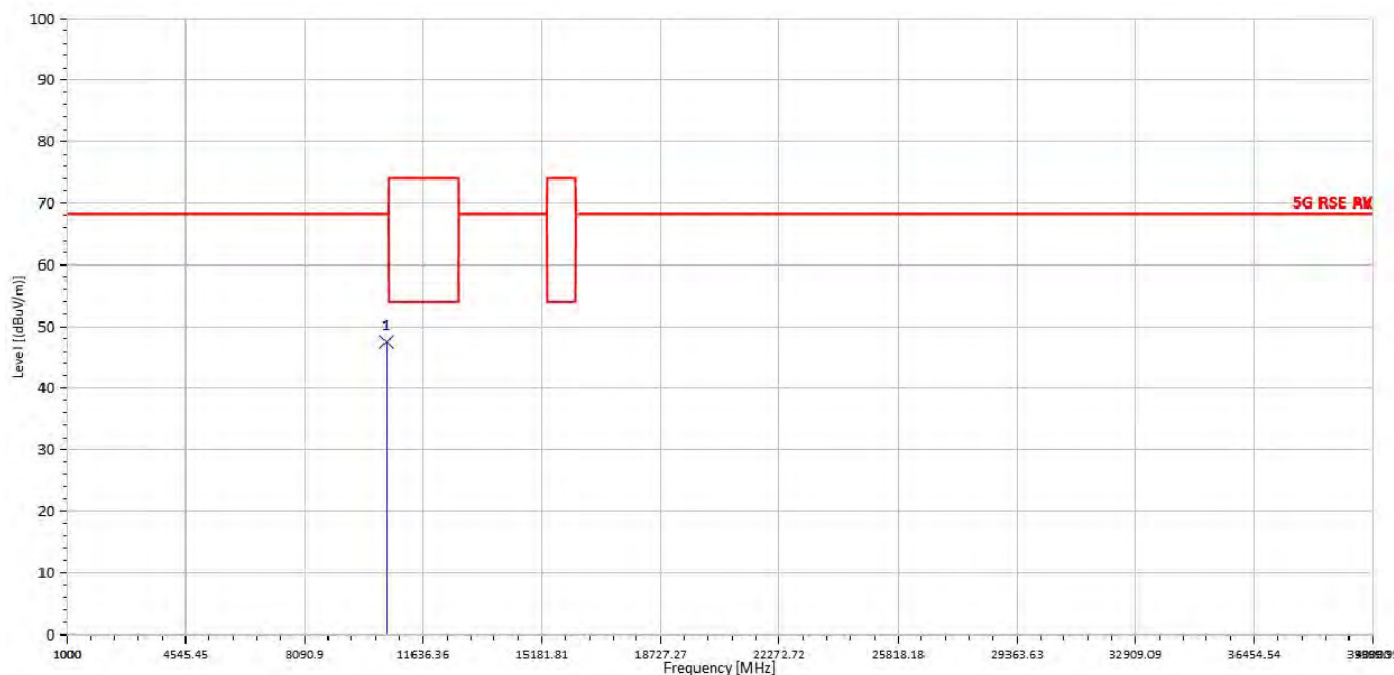
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40	Test Date :	2017/3/15
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10540.00	H	Peak	37.56	9.87	47.43	68.3	-20.87

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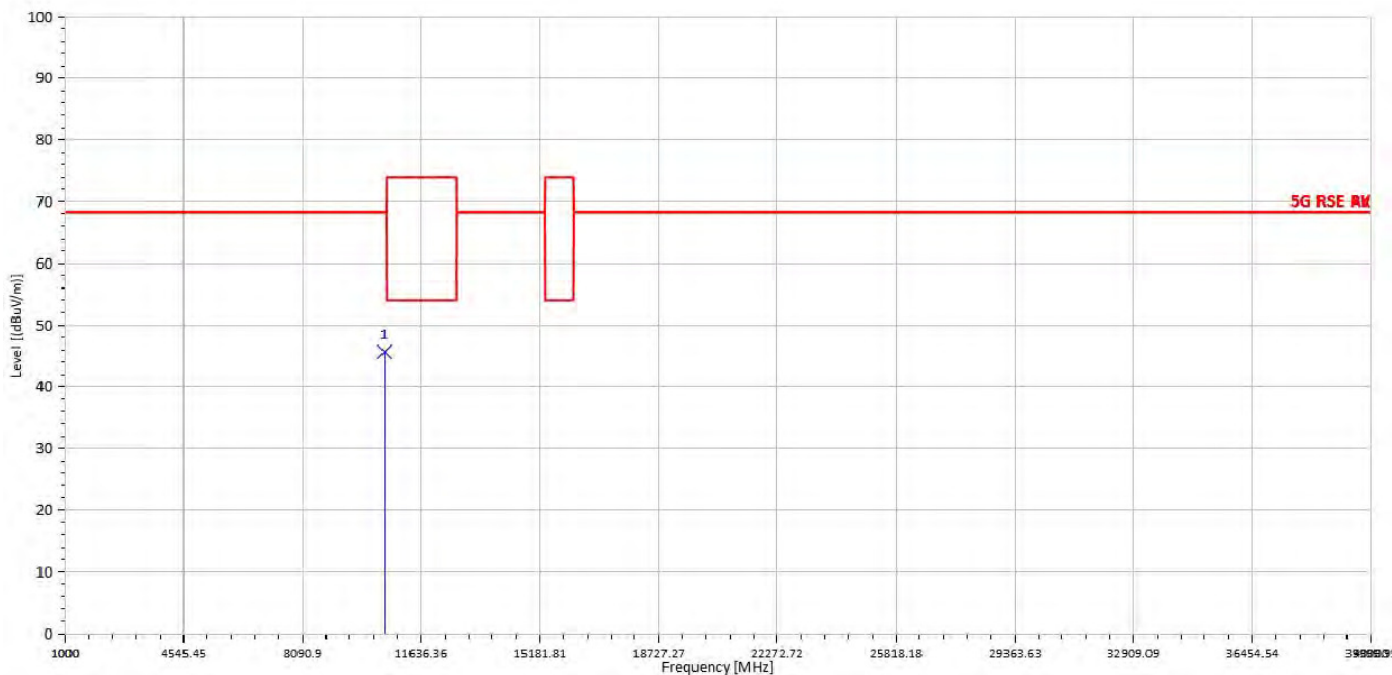
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Operation Mode :	802.11n40	Test Date :	2017/3/15
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10540.00	H	Peak	35.80	9.87	45.67	68.3	-22.63

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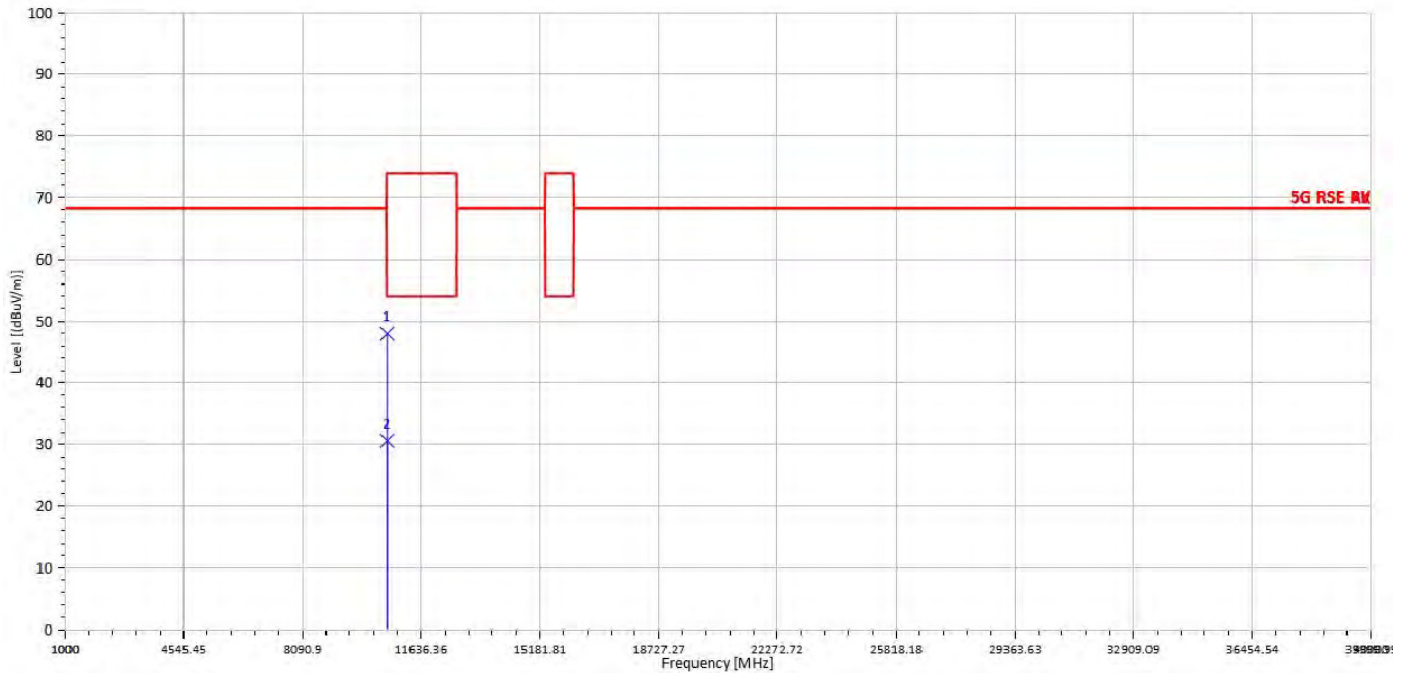
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Operation Mode : 802.11n40 Test Date : 2017/3/15
Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10620.00	H	Peak	37.81	10.11	47.92	74	-26.08
10620.00	H	Average	20.47	10.11	30.58	54	-23.42

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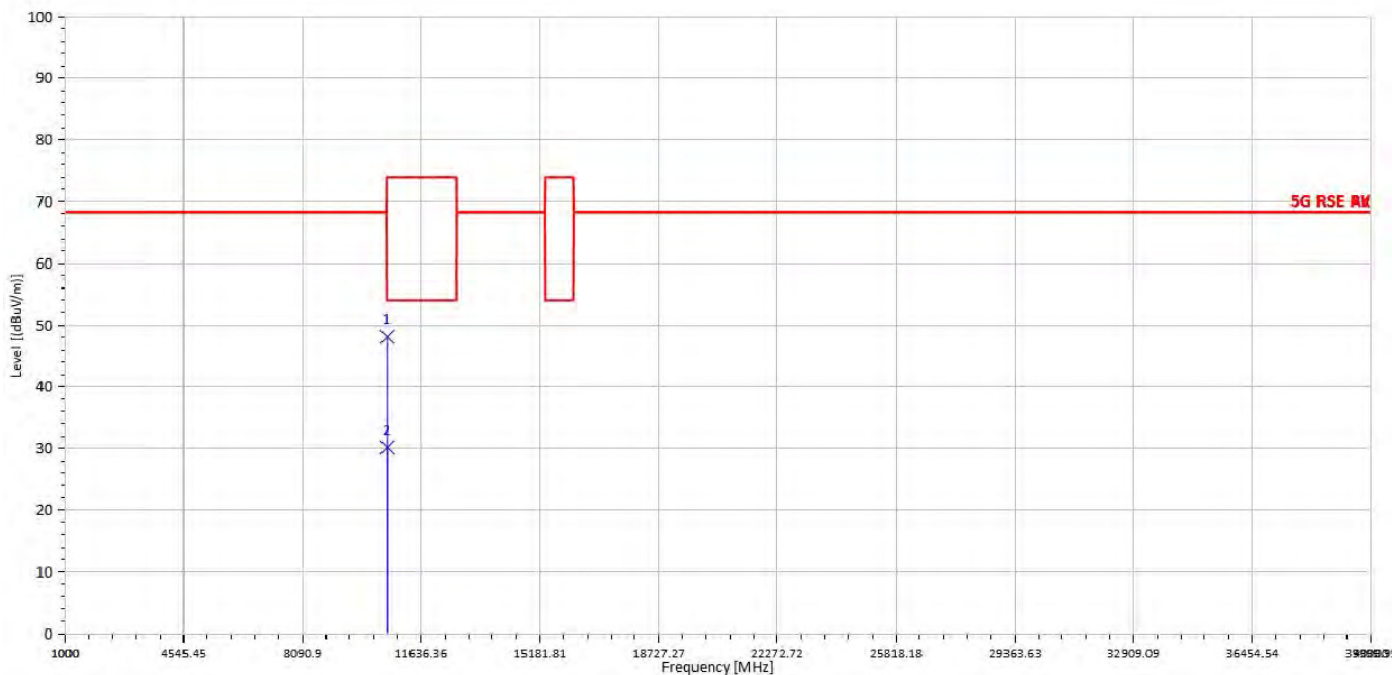
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Operation Mode :	802.11n40	Test Date :	2017/3/15
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	37.95	10.11	48.06	74	-25.94
10620.00	H	Average	20.02	10.11	30.13	54	-23.87

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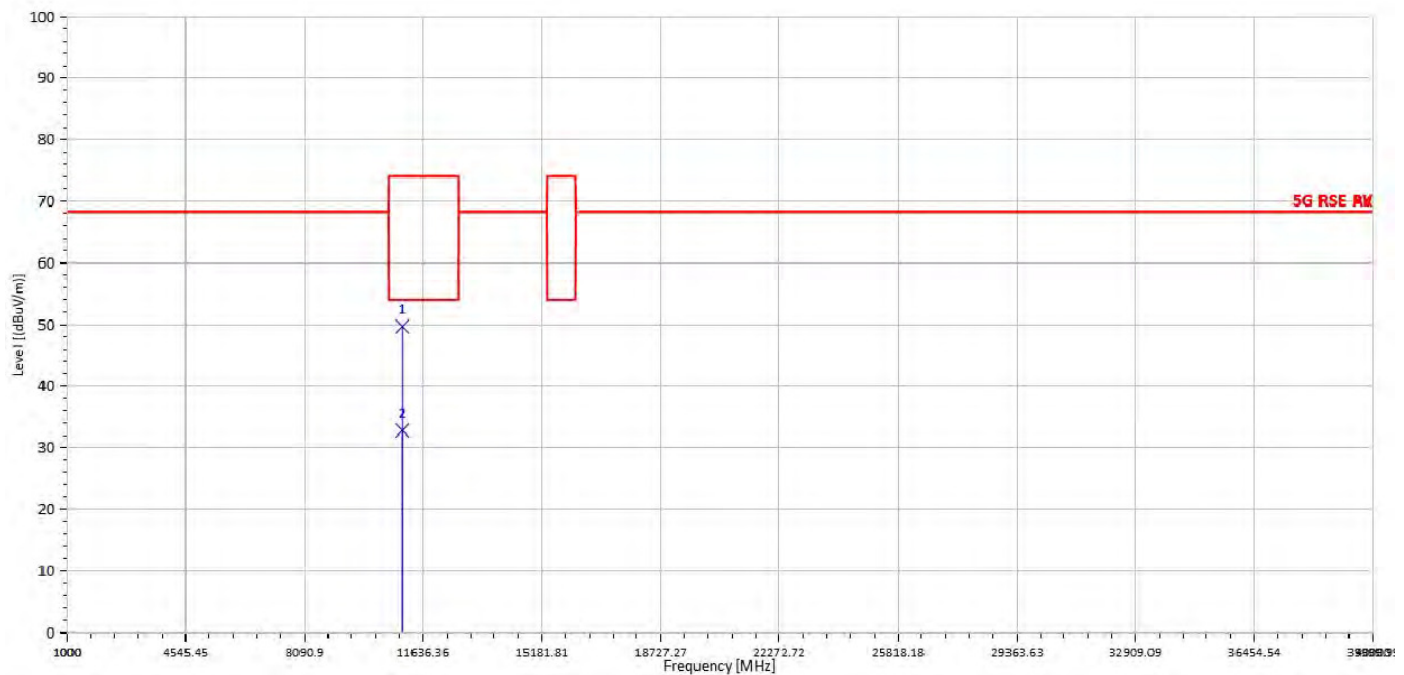
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40	Test Date :	2017/3/15
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
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	38.08	11.60	49.67	74	-24.33
11020.00	H	Average	21.19	11.60	32.79	54	-21.21

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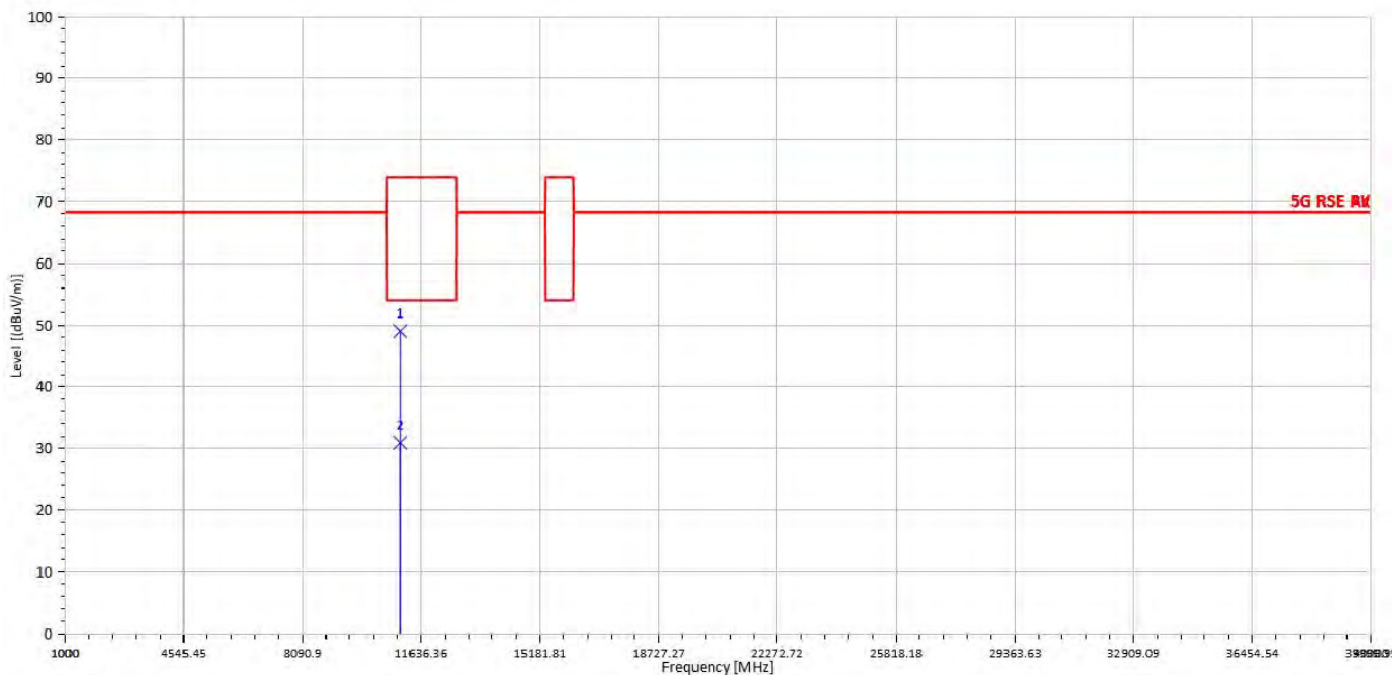
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Operation Mode : 802.11n40 Test Date : 2017/3/15
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH LOW Test Engineer : Tank
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	37.40	11.60	49.00	74	-25.00
11020.00	H	Average	19.33	11.60	30.93	54	-23.07

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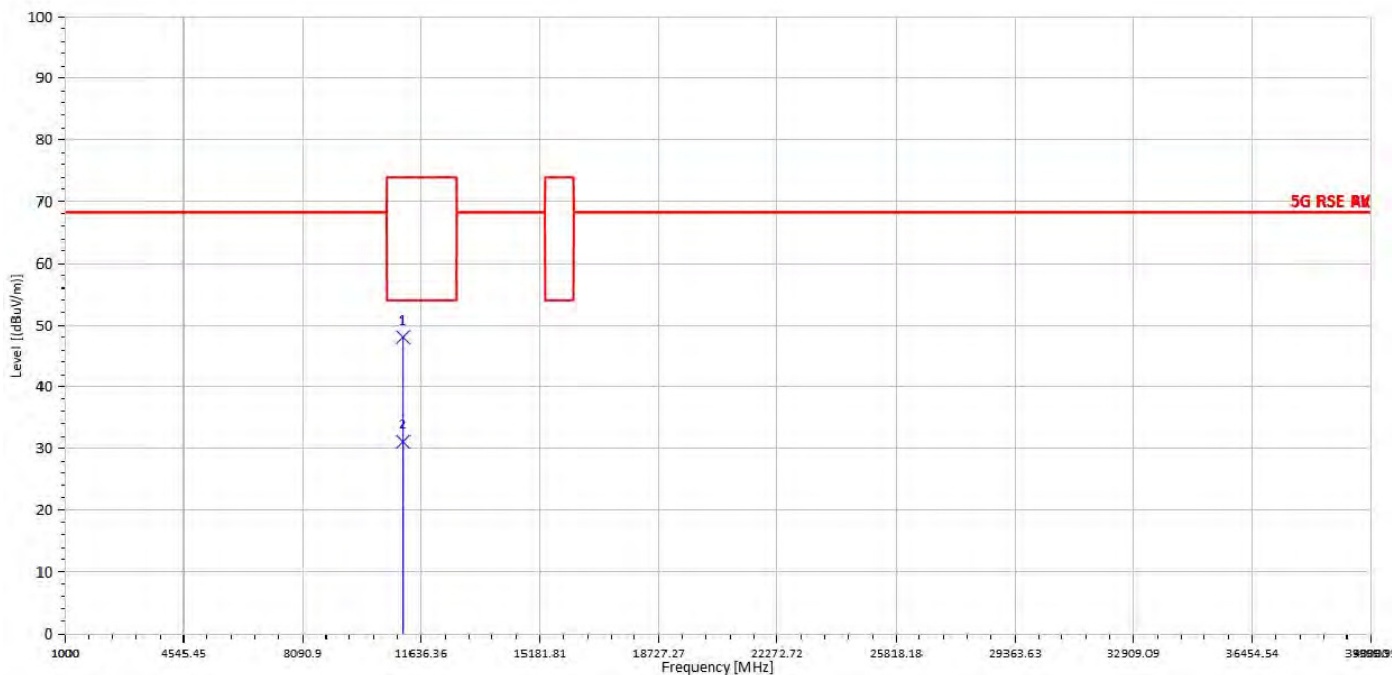
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Operation Mode : 802.11n40 Test Date : 2017/3/15
Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	36.84	11.15	47.99	74	-26.01
11100.00	H	Average	19.96	11.15	31.11	54	-22.89

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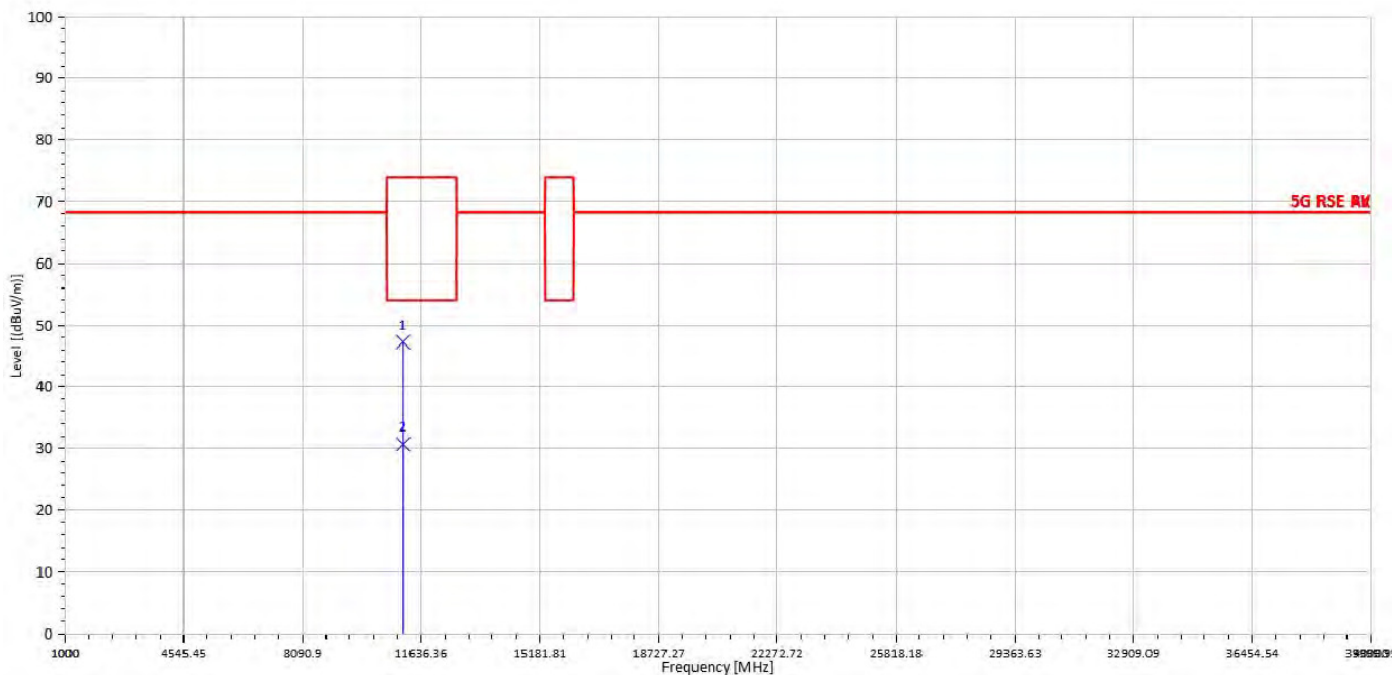
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Operation Mode : 802.11n40 Test Date : 2017/3/15
Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH MID Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	36.10	11.15	47.25	74	-26.75
11100.00	H	Average	19.51	11.15	30.66	54	-23.34

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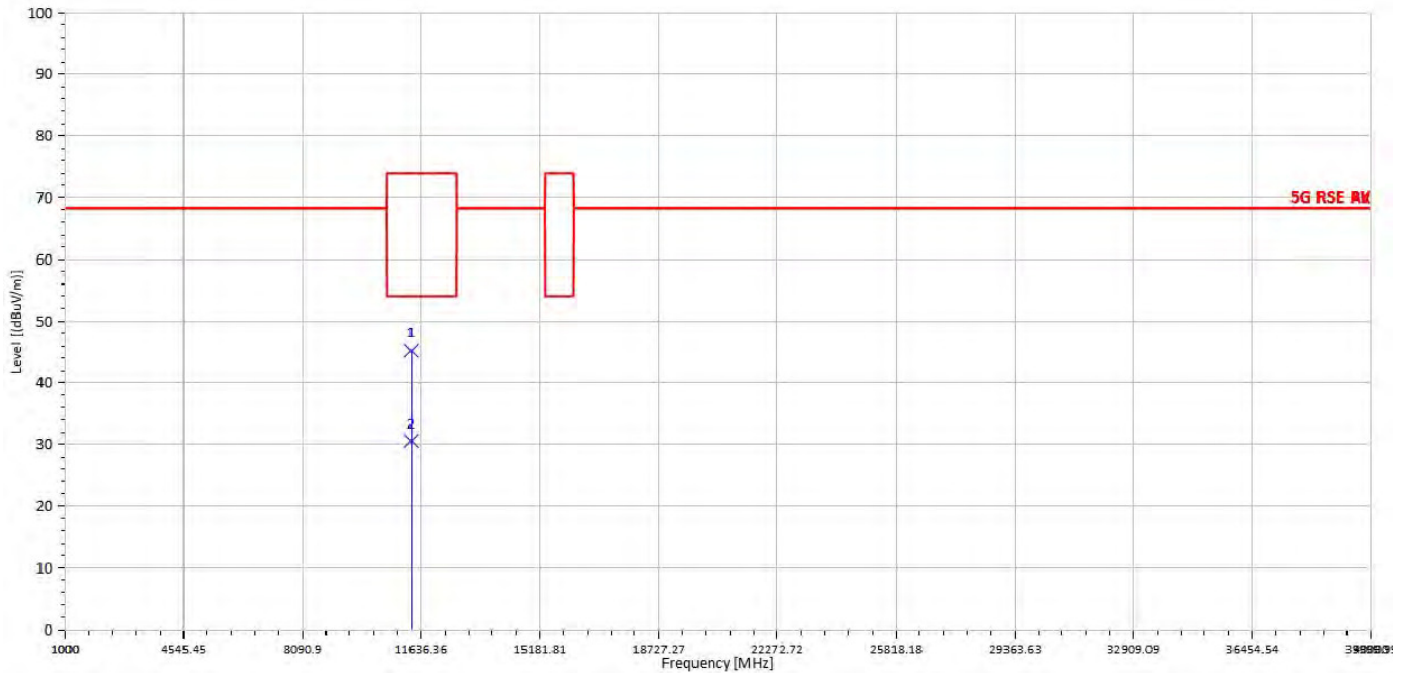
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Operation Mode : 802.11n40 Test Date : 2017/3/15
Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	33.84	11.37	45.22	74	-28.78
11340.00	H	Average	19.17	11.37	30.54	54	-23.46

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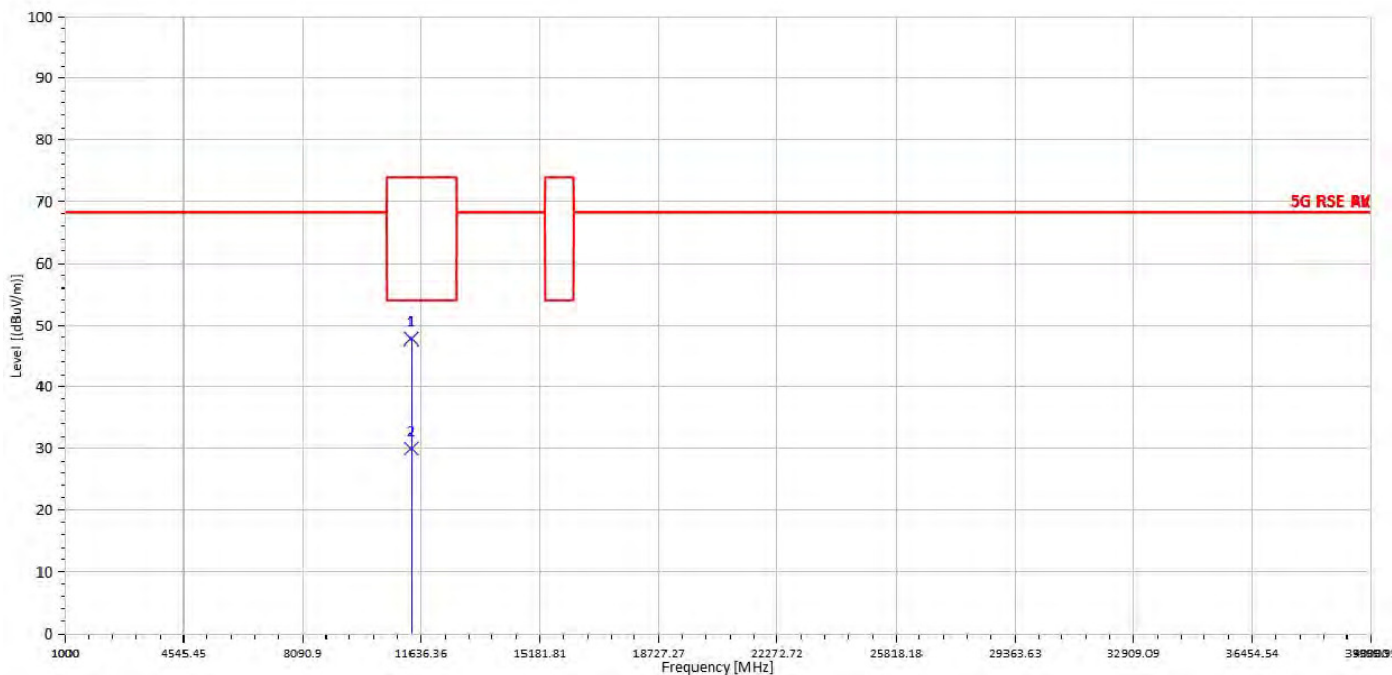
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Operation Mode :	802.11n40	Test Date :	2017/3/15
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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	36.39	11.37	47.76	74	-26.24
11340.00	H	Average	18.58	11.37	29.95	54	-24.05

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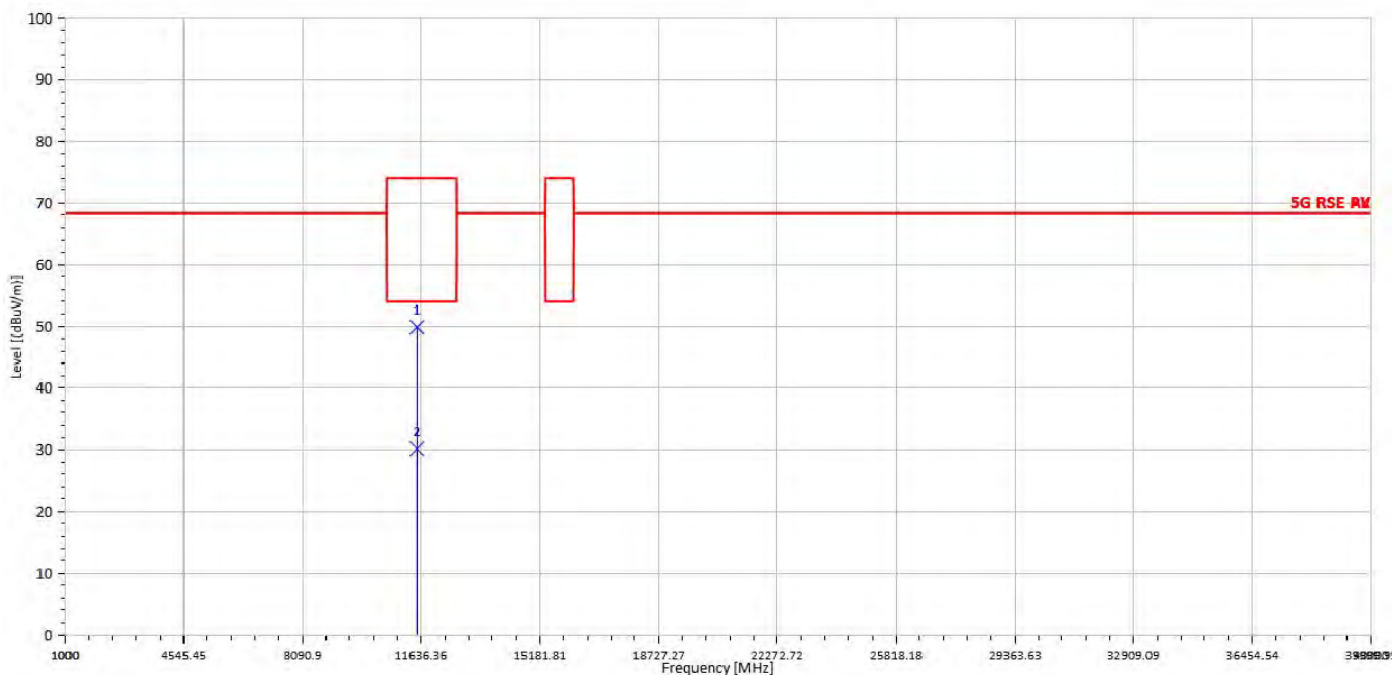
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40	Test Date :	2017/3/15
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	dB
11510.00	H	Peak	38.70	11.12	49.82	74	-24.18
11510.00	H	Average	19.05	11.12	30.17	54	-23.83

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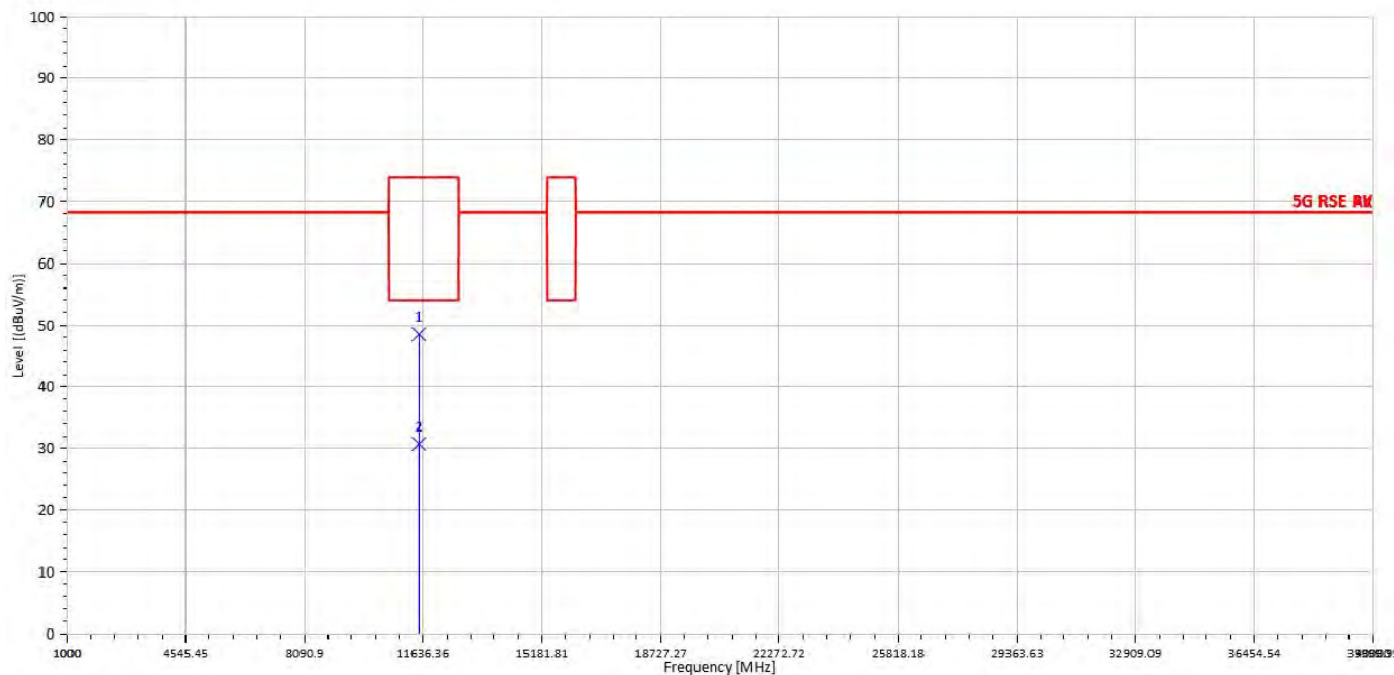
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Operation Mode : 802.11n40 Test Date : 2017/3/15
Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH LOW Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	37.36	11.12	48.48	74	-25.52
11510.00	H	Average	19.58	11.12	30.70	54	-23.30

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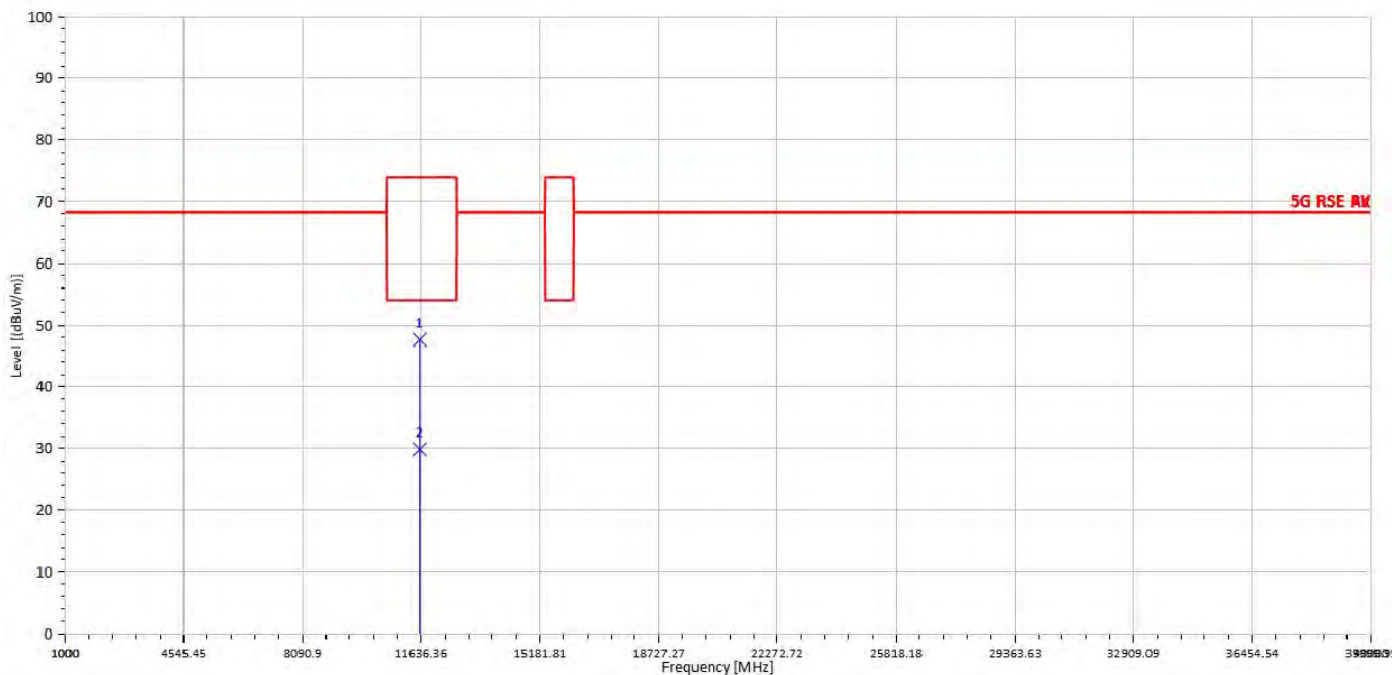
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Operation Mode : 802.11n40 Test Date : 2017/3/15
Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	36.57	11.05	47.62	74	-26.38
11590.00	H	Average	18.77	11.05	29.82	54	-24.18

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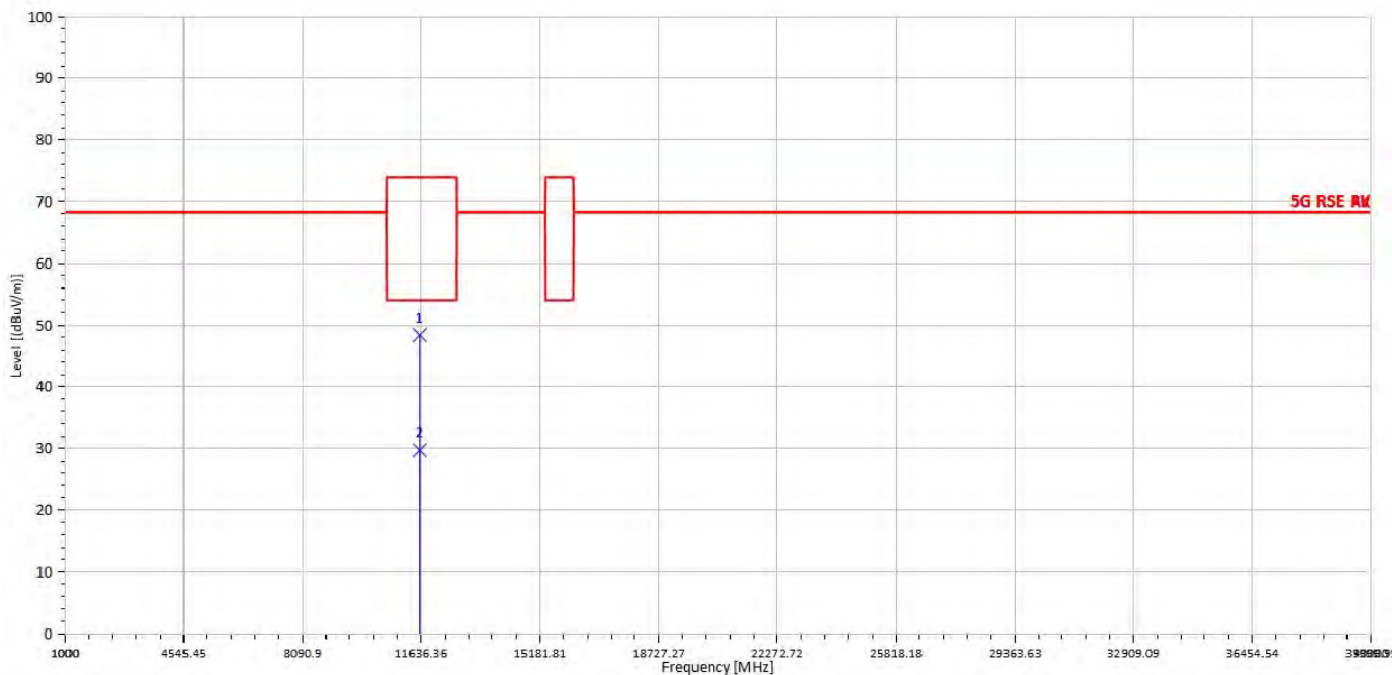
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Operation Mode : 802.11n40 Test Date : 2017/3/15
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH HIGH Test Engineer : Tank
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11590.00	H	Peak	37.32	11.05	48.36	74	-25.64
11590.00	H	Average	18.64	11.05	29.69	54	-24.31

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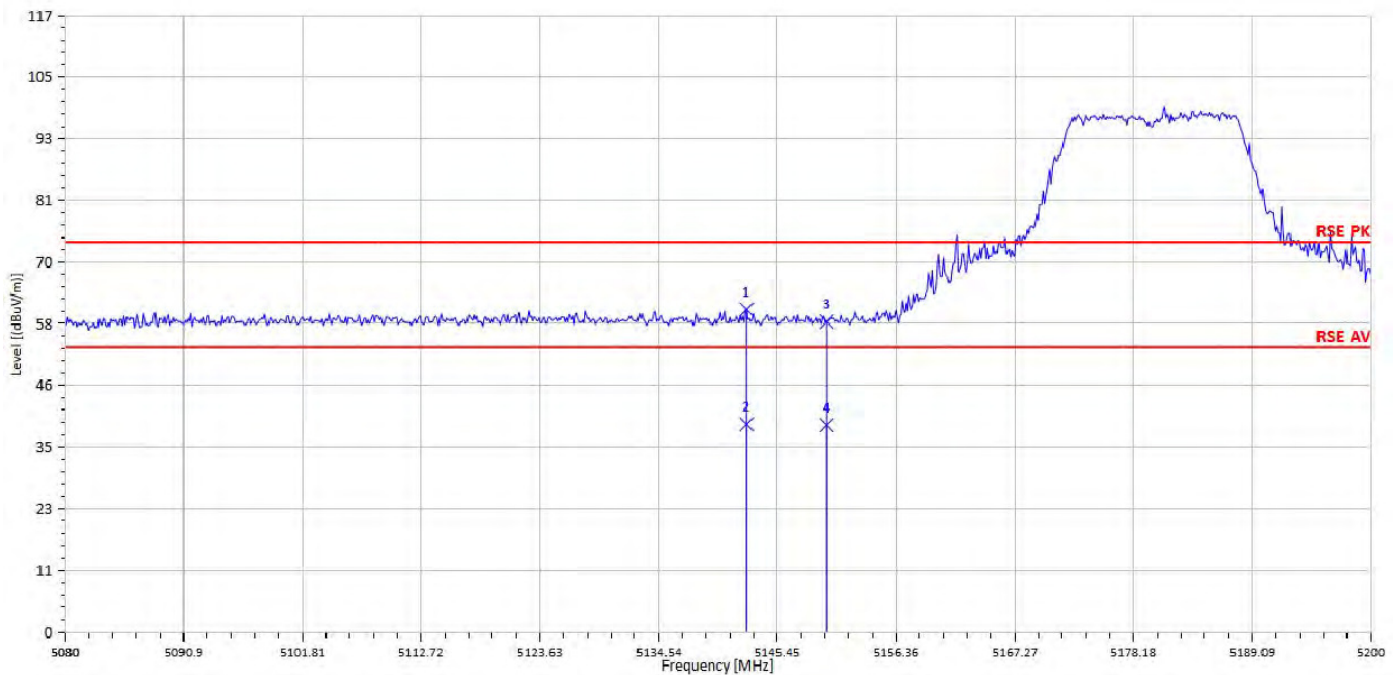
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Band edge falling to restricted band

802.11a mode

Operation Mode :	802.11a	Test Date :	2017/3/14
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
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	dBuV	dB	dBuV/m	dBuV/m	dB
5142.64	S	Peak	61.37	-0.17	61.20	74	-12.80
5142.64	S	Average	39.57	-0.17	39.40	54	-14.60
5150.00	E	Peak	59.05	-0.17	58.88	74	-15.12
5150.00	E	Average	39.41	-0.17	39.24	54	-14.76

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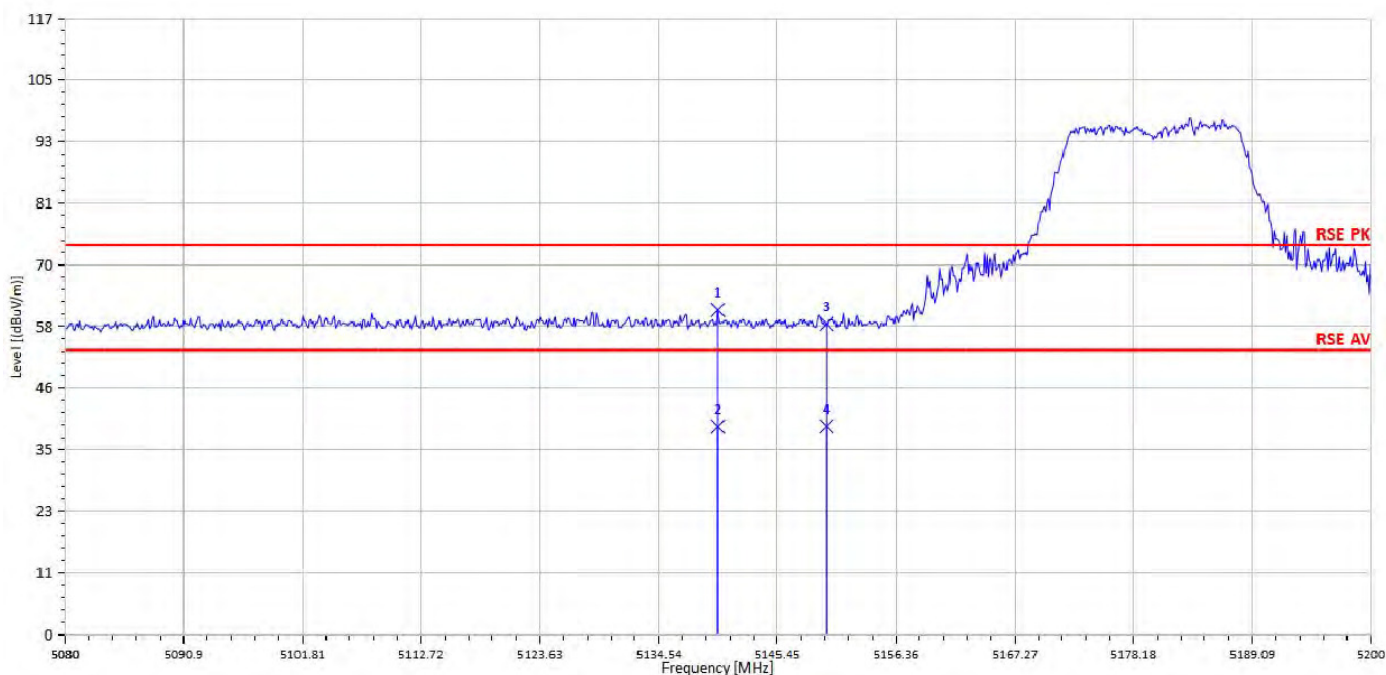
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Operation Mode :	802.11a	Test Date :	2017/3/14
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5140.00	S	Peak	61.79	-0.17	61.62	74	-12.38
5140.00	S	Average	39.59	-0.17	39.42	54	-14.58
5150.00	E	Peak	59.17	-0.17	59.00	74	-15.00
5150.00	E	Average	39.64	-0.17	39.47	54	-14.53

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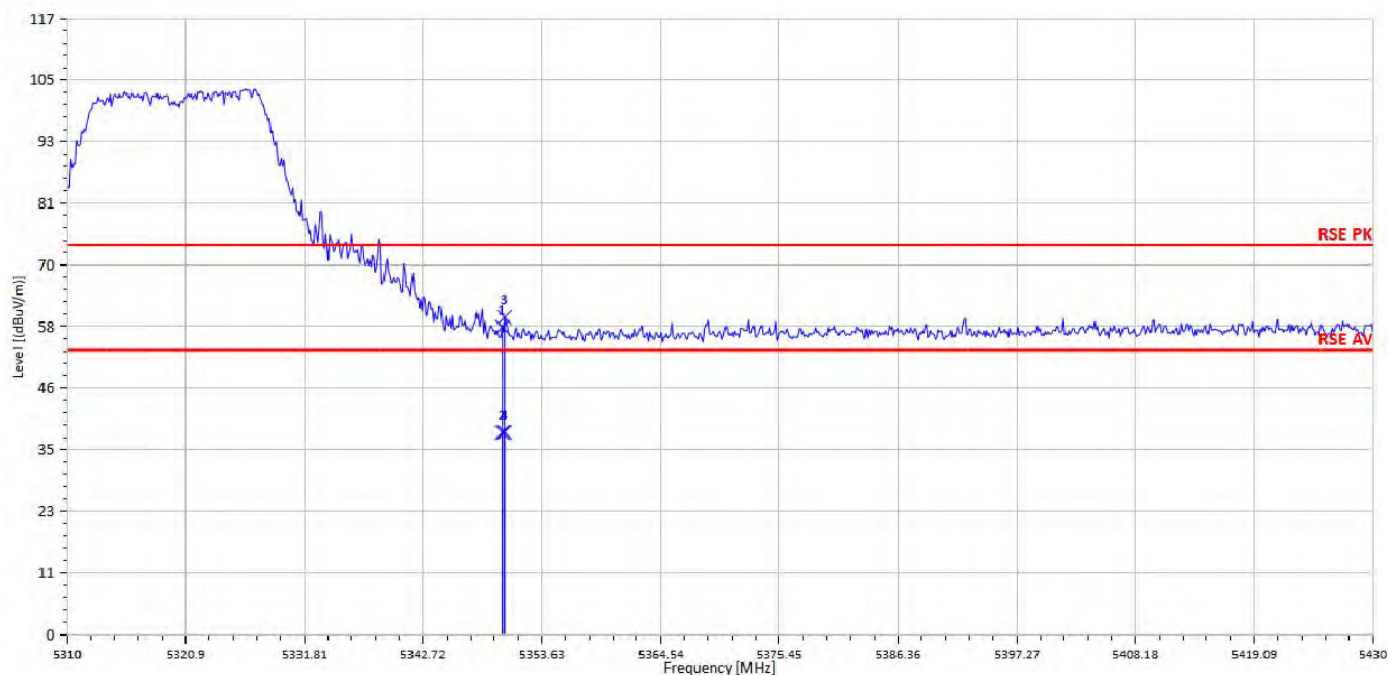
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Operation Mode : 802.11a Test Date : 2017/3/14
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	E	Peak	58.52	-0.15	58.36	74	-15.64
5350.00	E	Average	38.50	-0.15	38.35	54	-15.65
5350.20	S	Peak	60.37	-0.15	60.22	74	-13.78
5350.20	S	Average	38.56	-0.15	38.41	54	-15.59

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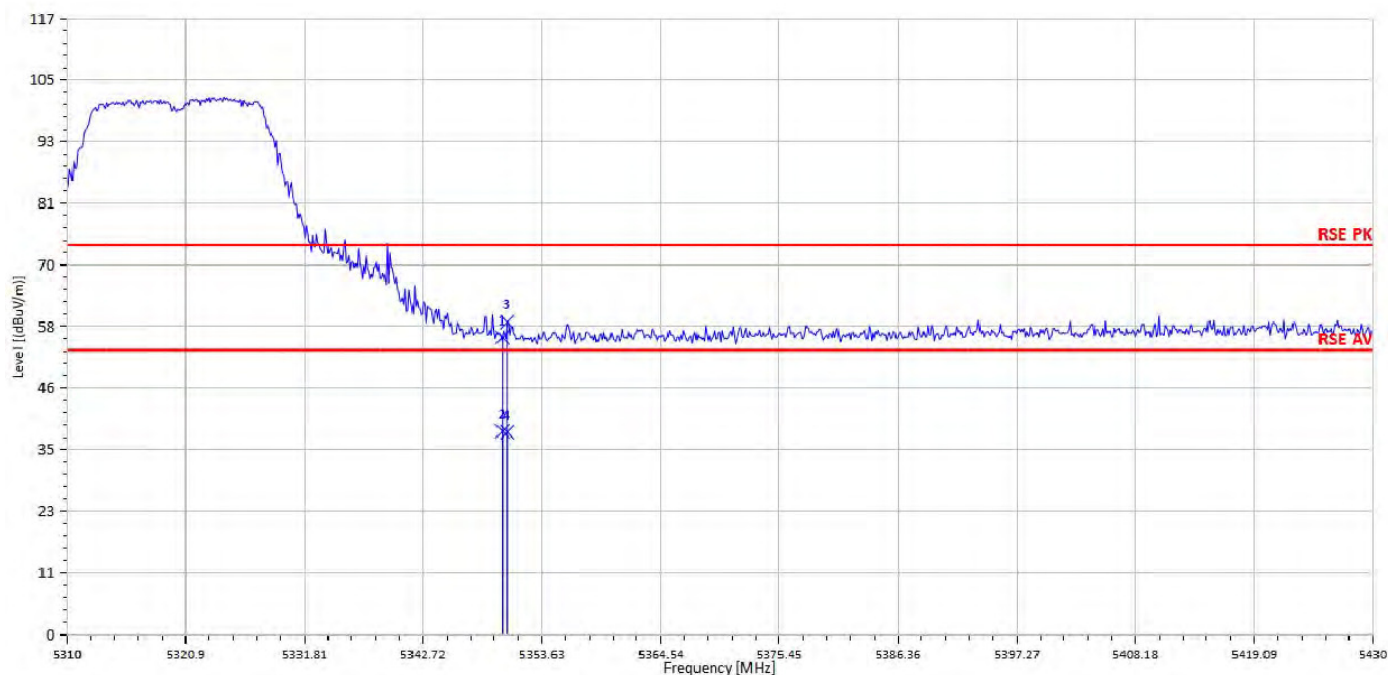
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Operation Mode : 802.11a Test Date : 2017/3/14
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	E	Peak	56.55	-0.15	56.39	74	-17.61
5350.00	E	Average	38.72	-0.15	38.57	54	-15.43
5350.44	S	Peak	59.47	-0.15	59.31	74	-14.69
5350.44	S	Average	38.56	-0.15	38.41	54	-15.59

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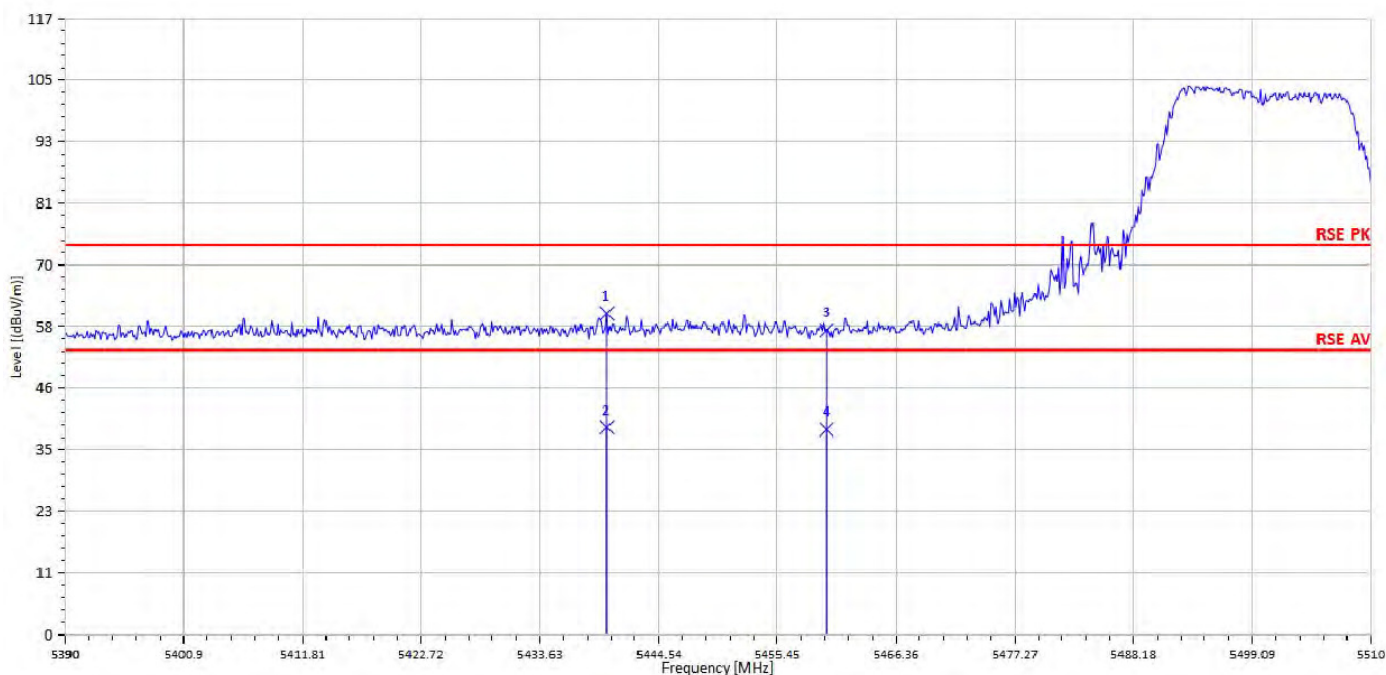
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Operation Mode :	802.11a	Test Date :	2017/3/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57 RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5439.80	S	Peak	60.88	0.01	60.89	74	-13.11
5439.80	S	Average	39.30	0.01	39.31	54	-14.69
5460.00	E	Peak	57.71	0.06	57.77	74	-16.23
5460.00	E	Average	38.84	0.06	38.90	54	-15.10

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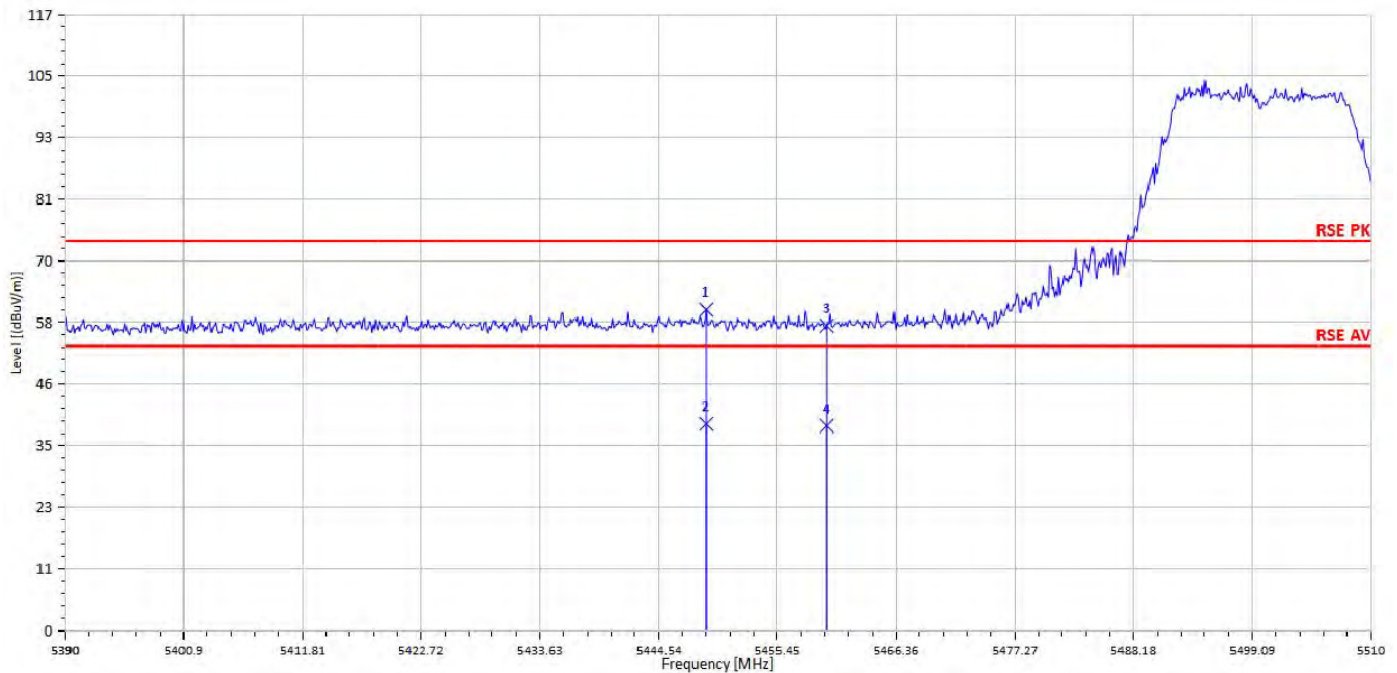
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Operation Mode :	802.11a	Test Date :	2017/3/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5448.92	S	Peak	60.86	0.03	60.90	74	-13.10
5448.92	S	Average	39.17	0.03	39.20	54	-14.80
5460.00	E	Peak	57.80	0.06	57.86	74	-16.14
5460.00	E	Average	38.81	0.06	38.87	54	-15.13

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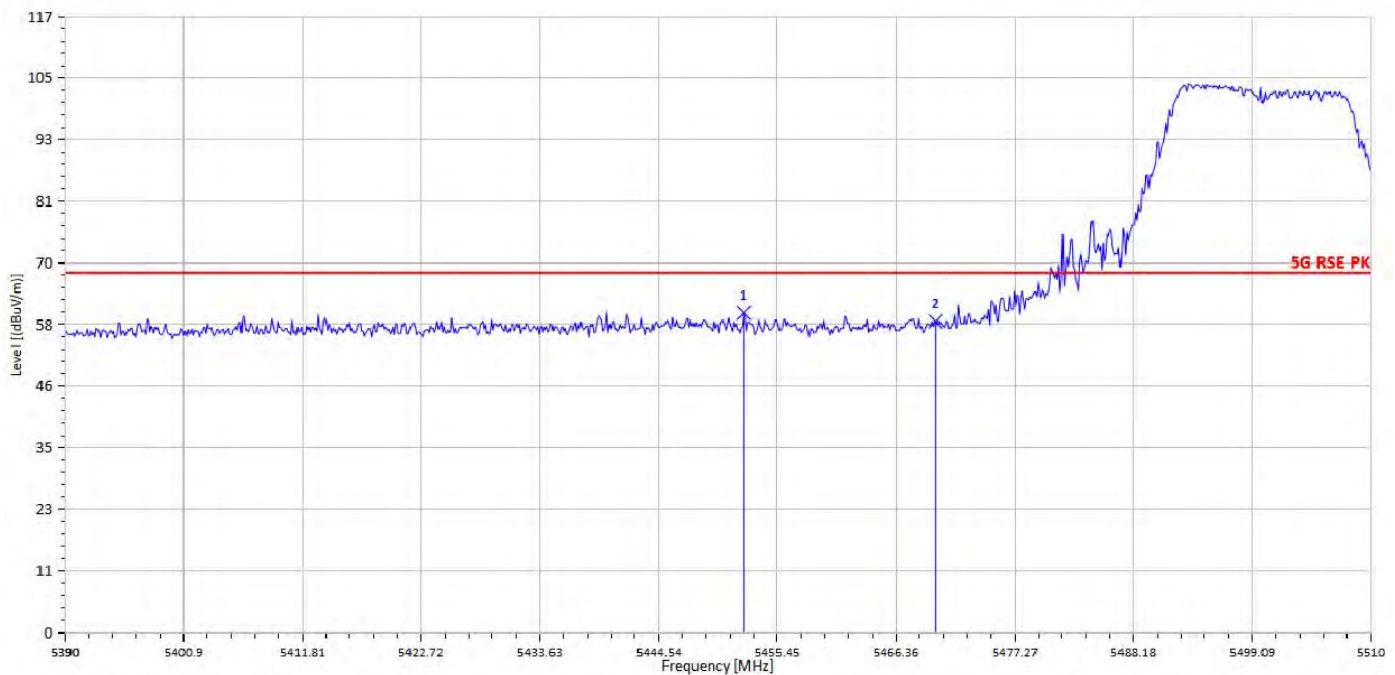
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Operation Mode :	802.11a	Test Date :	2017/3/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5452.40	S	Peak	60.62	0.04	60.66	68.3	-7.64
5470.00	E	Peak	58.97	0.08	59.06	68.3	-9.24

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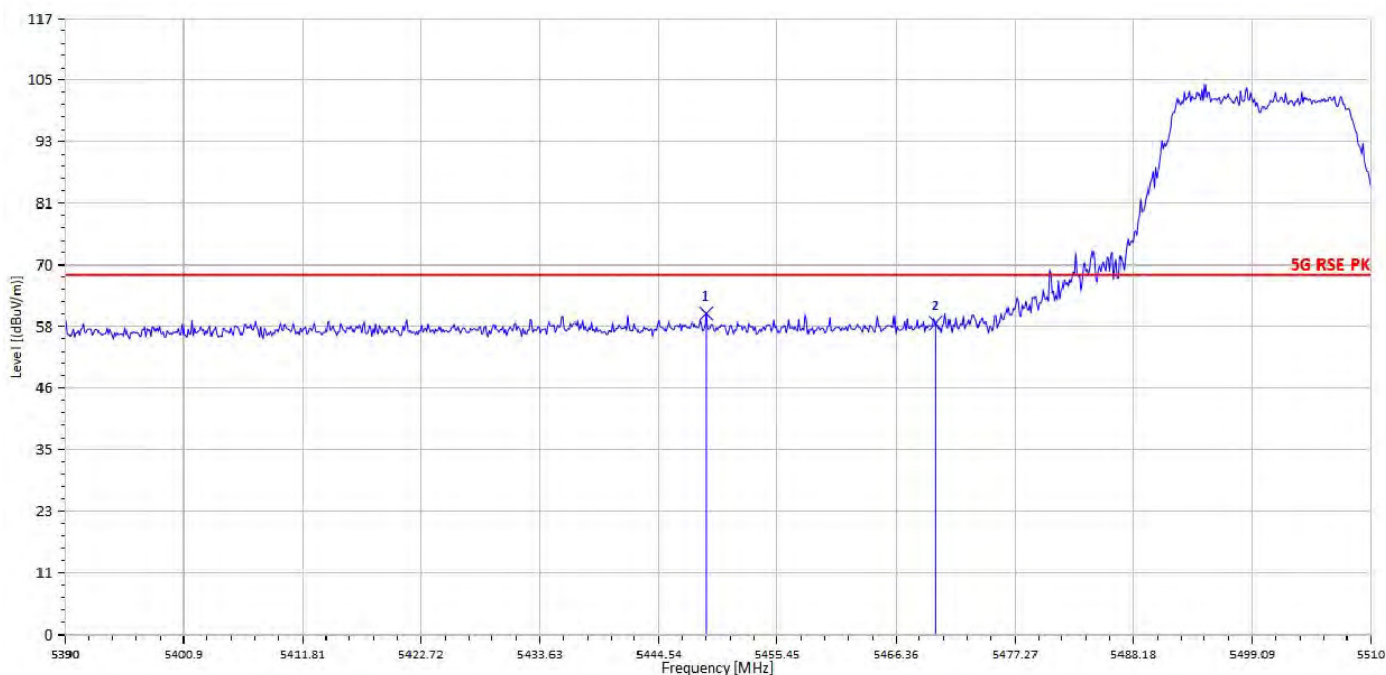
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Operation Mode :	802.11a	Test Date :	2017/3/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5448.92	S	Peak	60.86	0.03	60.90	68.3	-7.40
5470.00	E	Peak	59.01	0.08	59.09	68.3	-9.21

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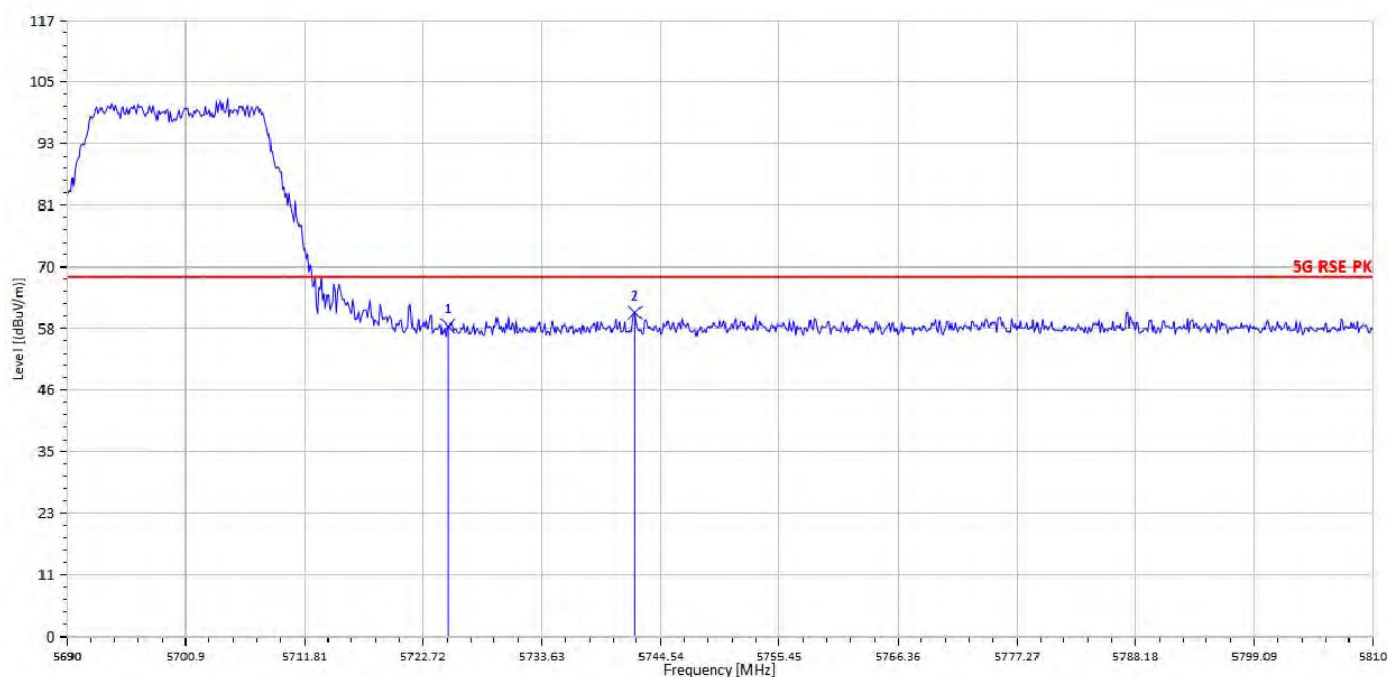
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Operation Mode :	802.11a	Test Date :	2017/3/14
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5725.00	E	Peak	58.21	0.69	58.90	68.3	-9.40
5742.20	S	Peak	60.71	0.77	61.48	68.3	-6.82

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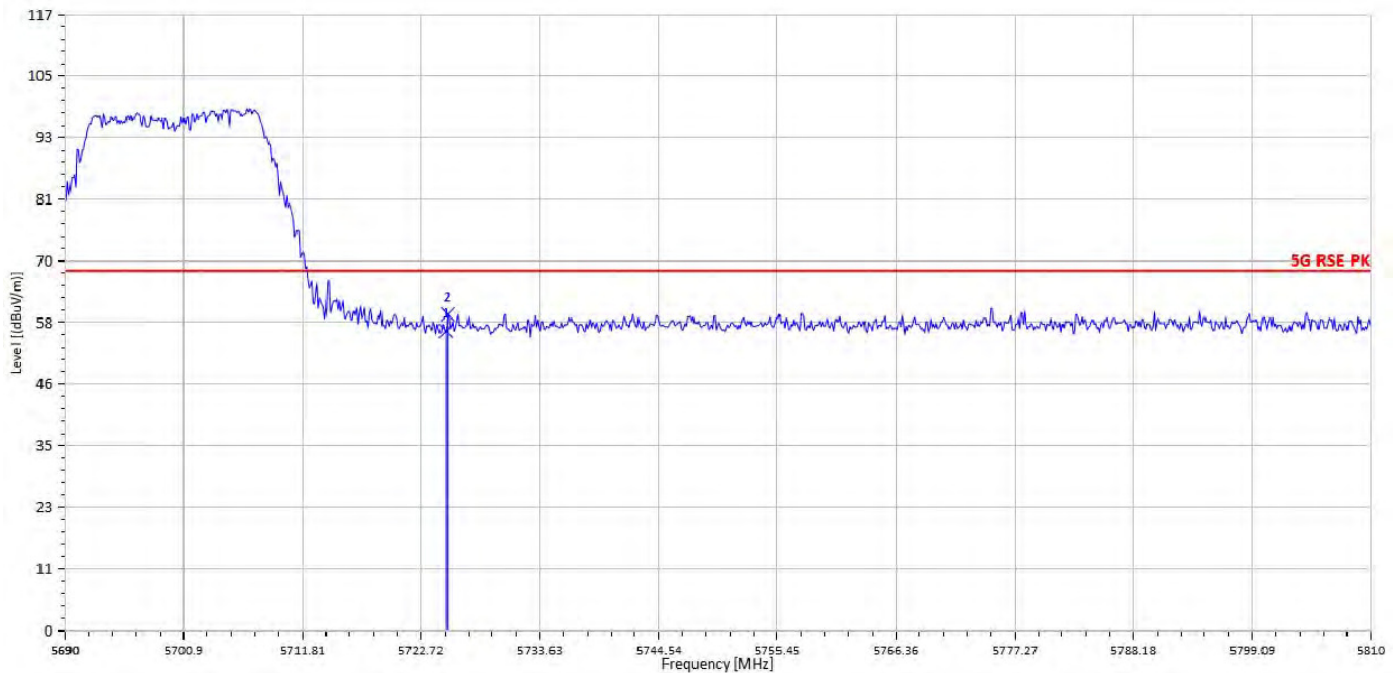
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Operation Mode :	802.11a	Test Date :	2017/3/14
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5725.00	E	Peak	56.17	0.69	56.85	68.3	-11.45
5725.16	S	Peak	59.36	0.69	60.05	68.3	-8.25

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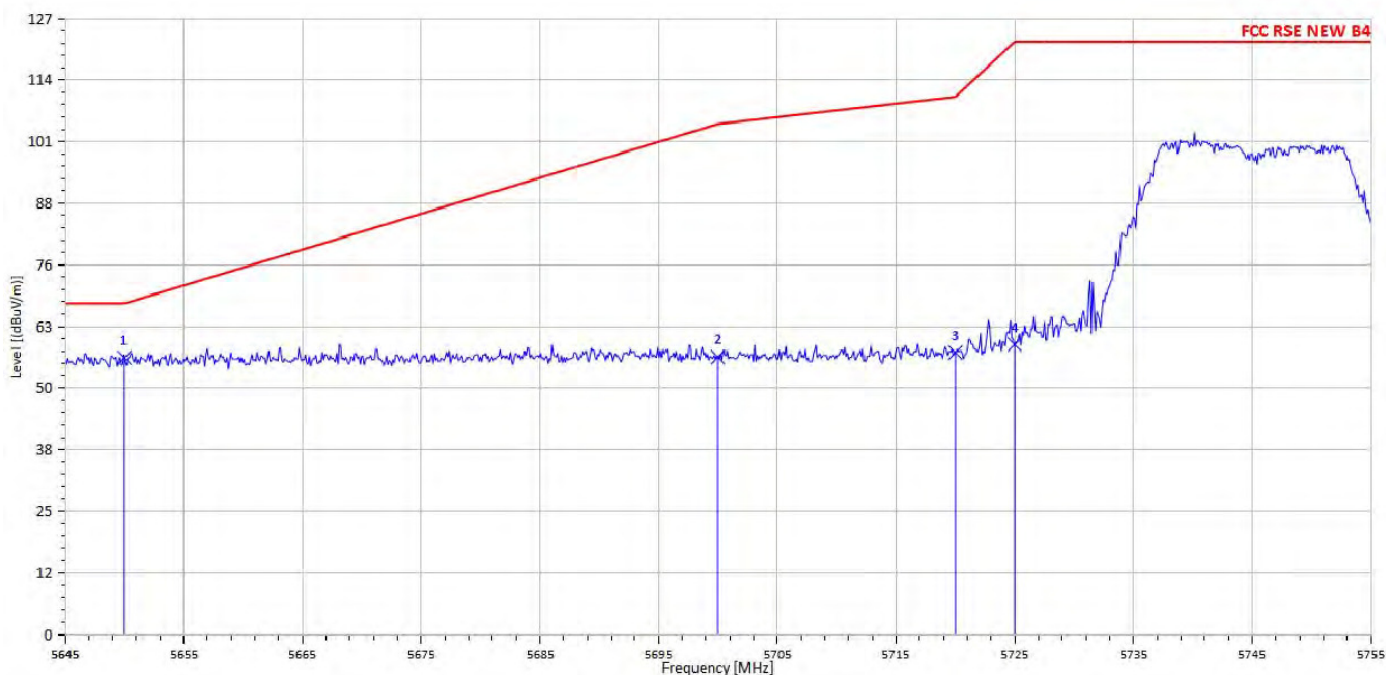
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Operation Mode :	802.11a	Test Date :	2017/3/14
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57 RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	S	Peak	56.44	0.63	57.06	68.23	-11.17
5700.00	S	Peak	56.60	0.56	57.16	105.23	-48.07
5720.00	S	Peak	57.42	0.66	58.08	110.83	-52.75
5725.00	E	Peak	59.08	0.69	59.77	122.23	-62.46

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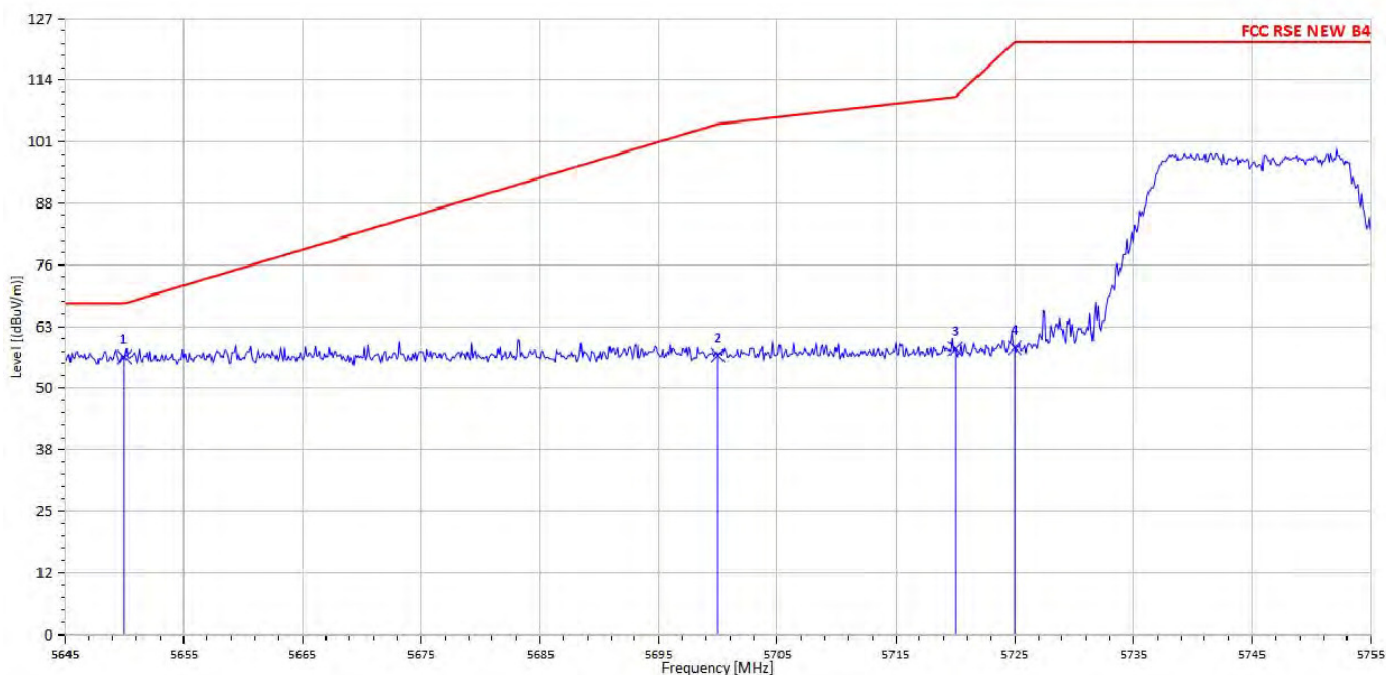
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Operation Mode : 802.11a Test Date : 2017/3/14
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH LOW Test Engineer : Tank
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	56.53	0.63	57.15	68.23	-11.08
5700.00	S	Peak	56.99	0.56	57.55	105.23	-47.68
5720.00	S	Peak	58.22	0.66	58.88	110.83	-51.95
5725.00	E	Peak	58.41	0.69	59.10	122.23	-63.13

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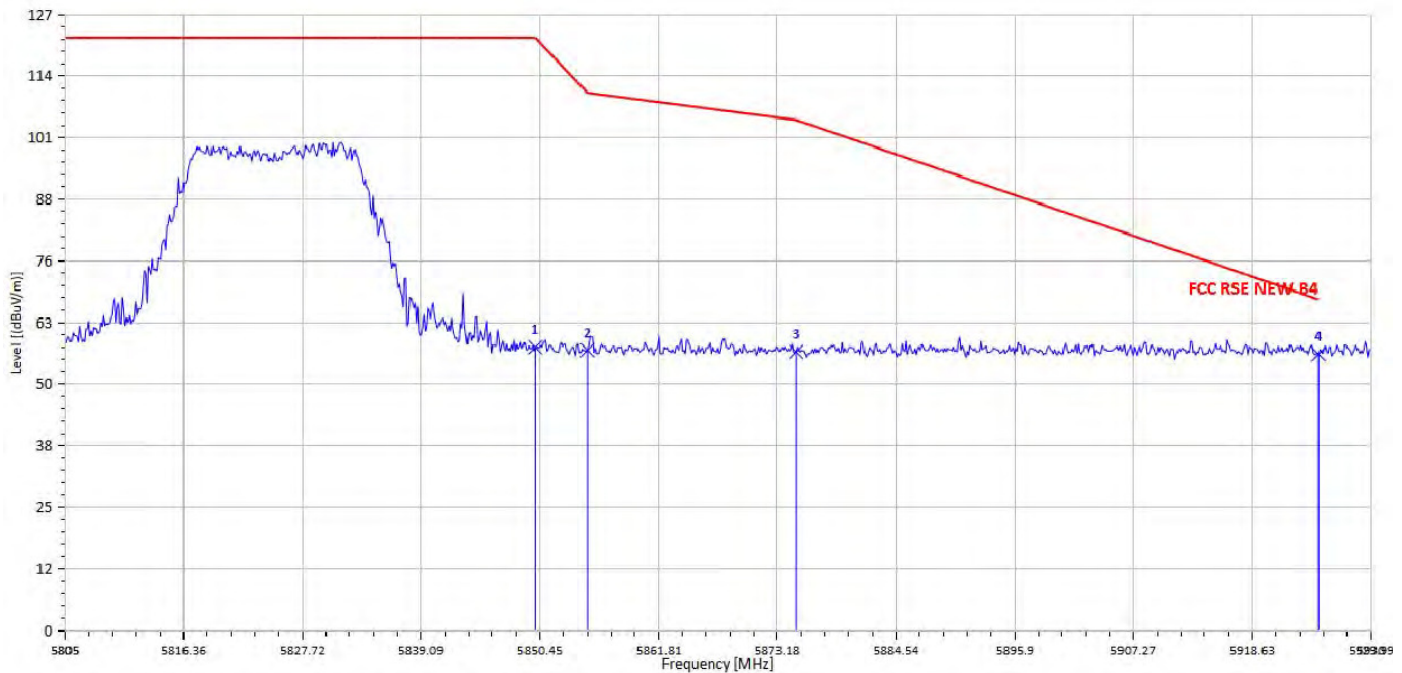
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Operation Mode : 802.11a Test Date : 2017/3/14
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.00	E	Peak	57.36	1.01	58.37	122.23	-63.86
5855.00	S	Peak	56.77	1.01	57.77	110.83	-53.06
5875.00	S	Peak	56.43	0.99	57.41	105.23	-47.82
5925.00	S	Peak	55.90	1.04	56.94	68.23	-11.29

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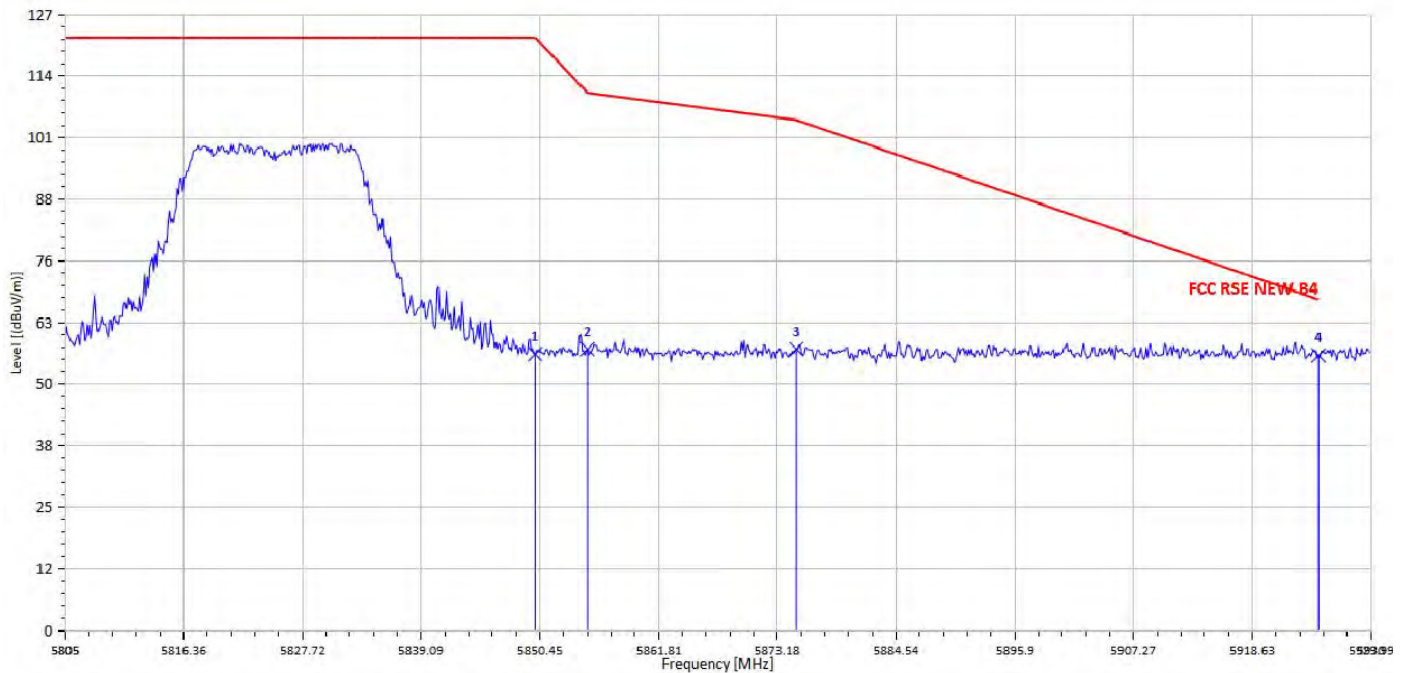
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Operation Mode : 802.11a Test Date : 2017/3/14
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.00	E	Peak	55.96	1.01	56.97	122.23	-65.26
5855.00	S	Peak	56.98	1.01	57.99	110.83	-52.84
5875.00	S	Peak	57.02	0.99	58.00	105.23	-47.23
5925.00	S	Peak	55.65	1.04	56.69	68.23	-11.54

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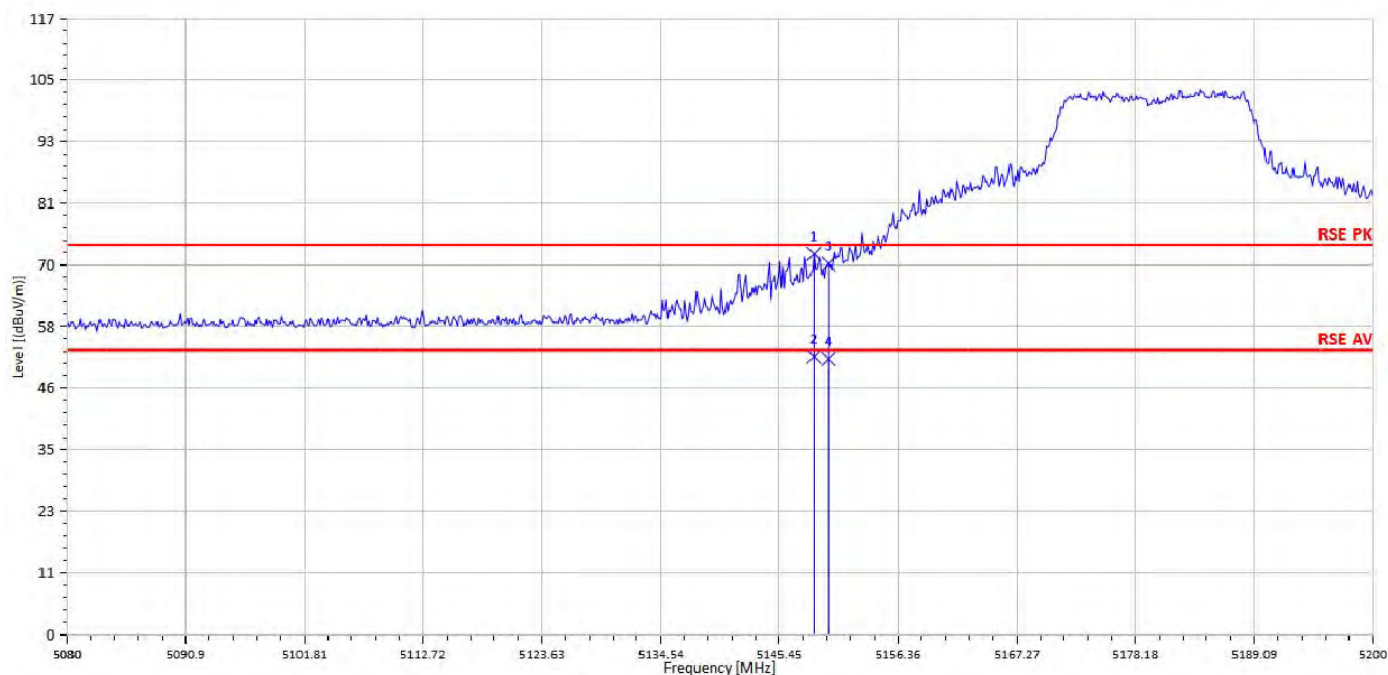
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802.11n20 HT mode

Operation Mode :	802.11n20	Test Date :	2017/3/14
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5148.64	S	Peak	72.42	-0.17	72.25	74	-1.75
5148.64	S	Average	52.98	-0.17	52.81	54	-1.19
5150.00	E	Peak	70.56	-0.17	70.39	74	-3.61
5150.00	E	Average	52.51	-0.17	52.34	54	-1.66

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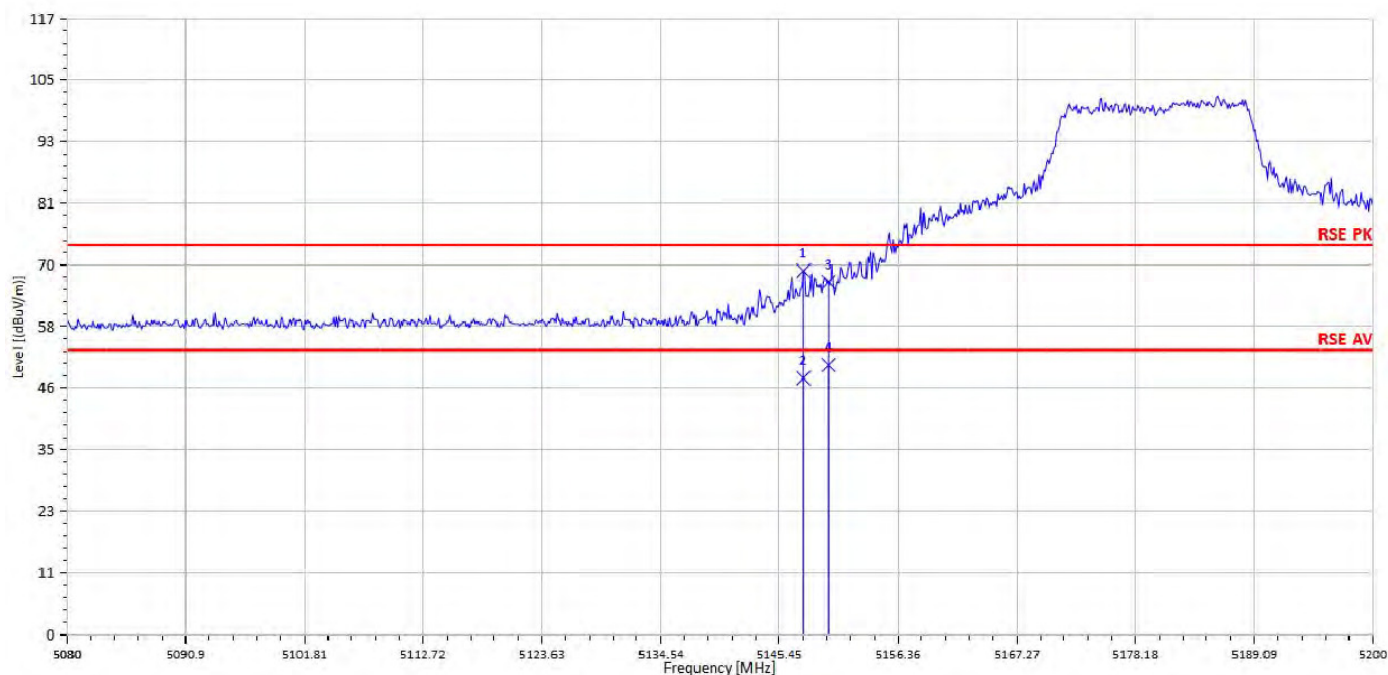
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Operation Mode :	802.11n20	Test Date :	2017/3/14
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5147.68	S	Peak	69.22	-0.17	69.05	74	-4.95
5147.68	S	Average	48.83	-0.17	48.66	54	-5.34
5150.00	E	Peak	67.08	-0.17	66.91	74	-7.09
5150.00	E	Average	51.33	-0.17	51.16	54	-2.84

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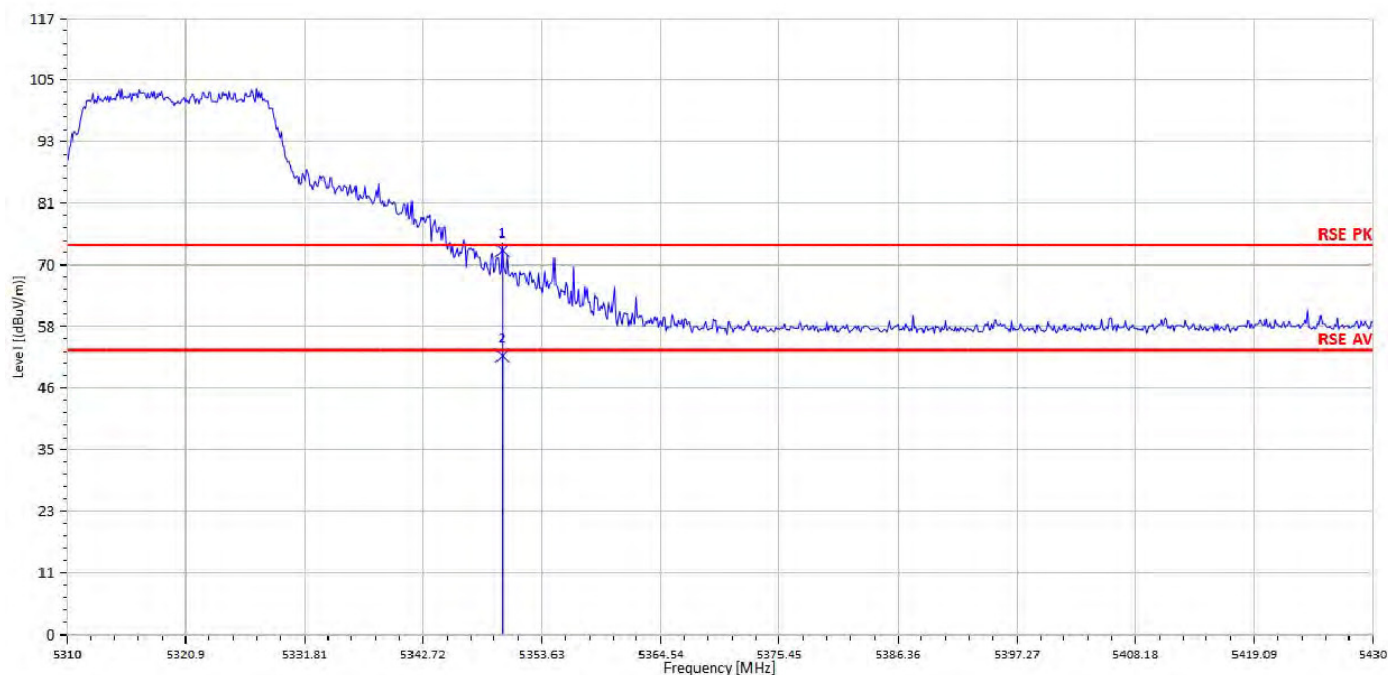
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Operation Mode :	802.11n20	Test Date :	2017/3/14
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5350.00	E	Peak	73.09	-0.15	72.94	74	-1.06
5350.00	E	Average	53.11	-0.15	52.95	54	-1.05

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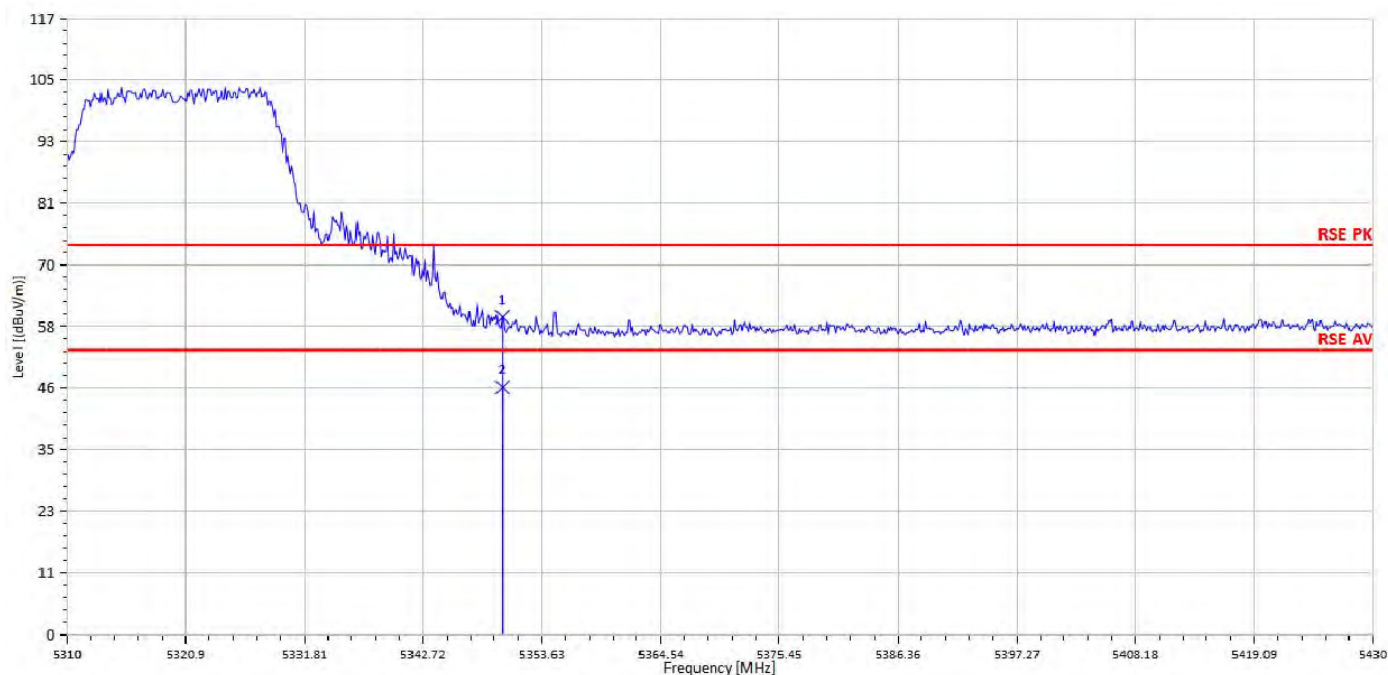
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Operation Mode :	802.11n20	Test Date :	2017/3/14
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5350.00	E	Peak	60.39	-0.15	60.23	74	-13.77
5350.00	E	Average	47.11	-0.15	46.95	54	-7.05

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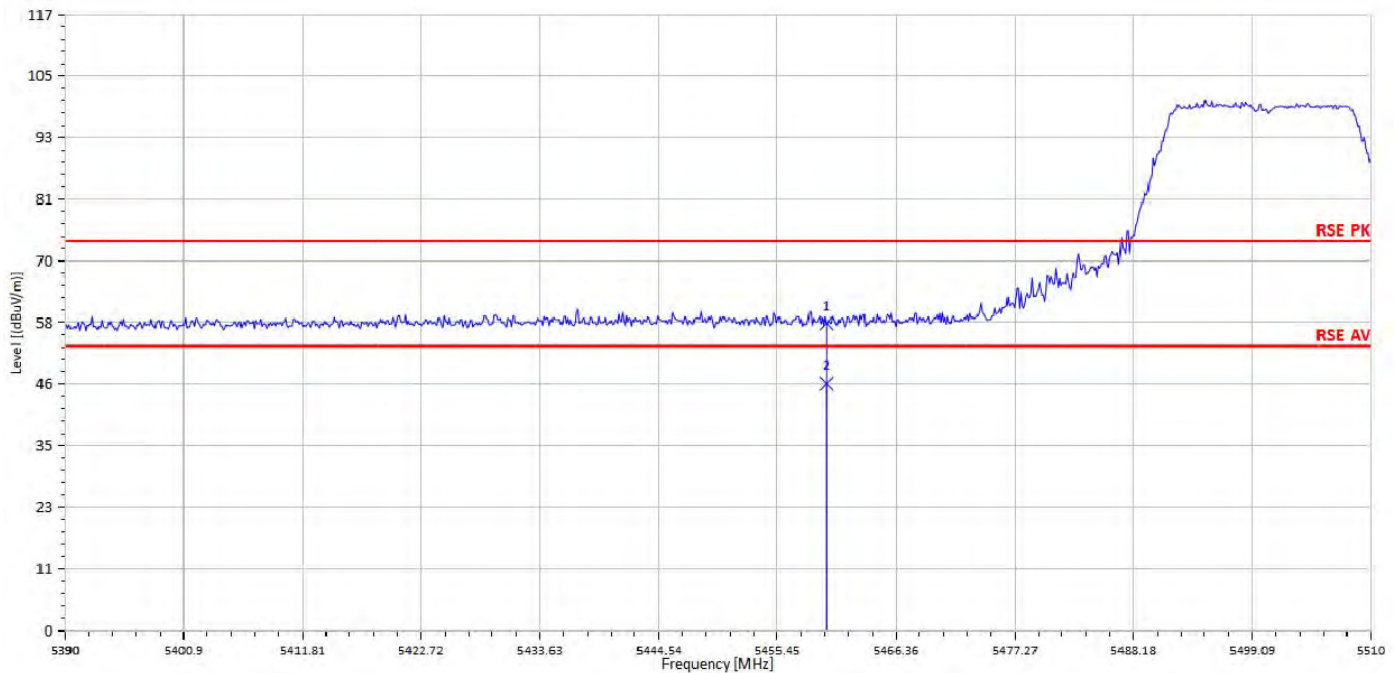
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Operation Mode :	802.11n20	Test Date :	2017/3/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57 RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5460.00	E	Peak	58.32	0.06	58.38	74	-15.62
5460.00	E	Average	46.84	0.06	46.90	54	-7.10

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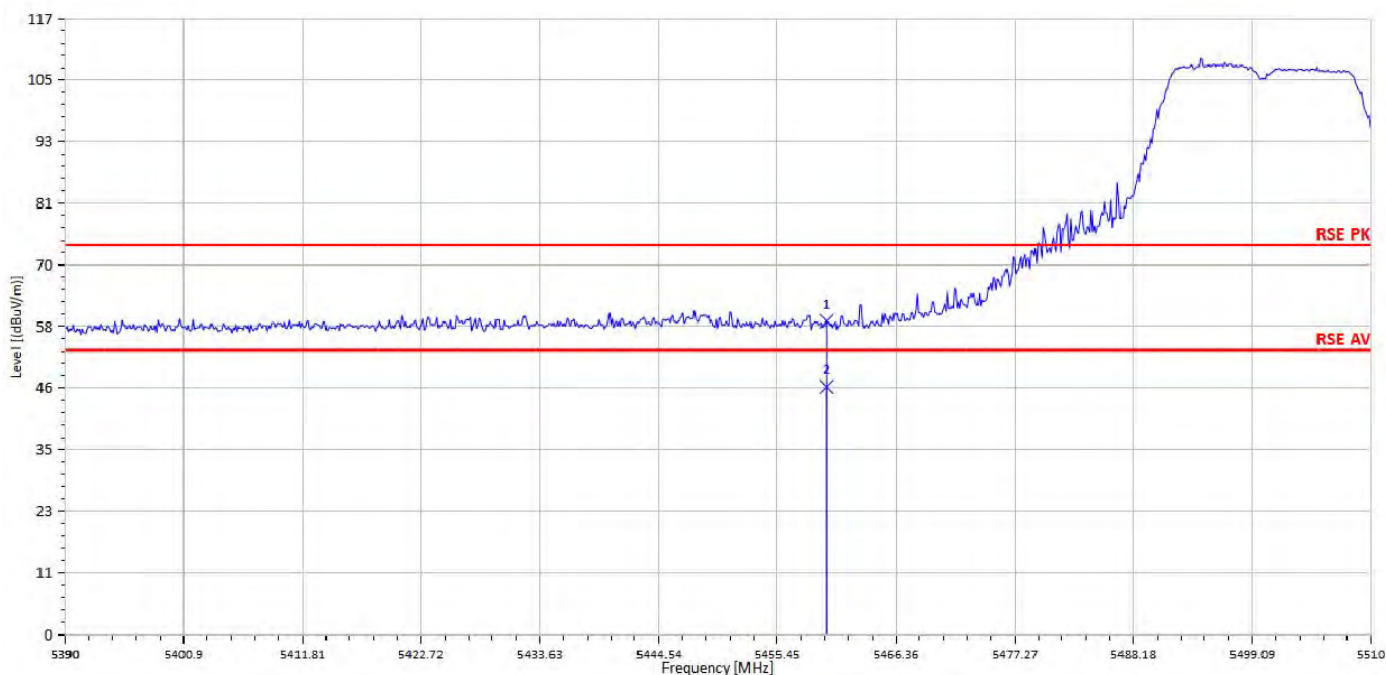
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Operation Mode :	802.11n20	Test Date :	2017/3/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57 RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5460.00	E	Peak	59.44	0.06	59.49	74	-14.51
5460.00	E	Average	46.98	0.06	47.04	54	-6.96

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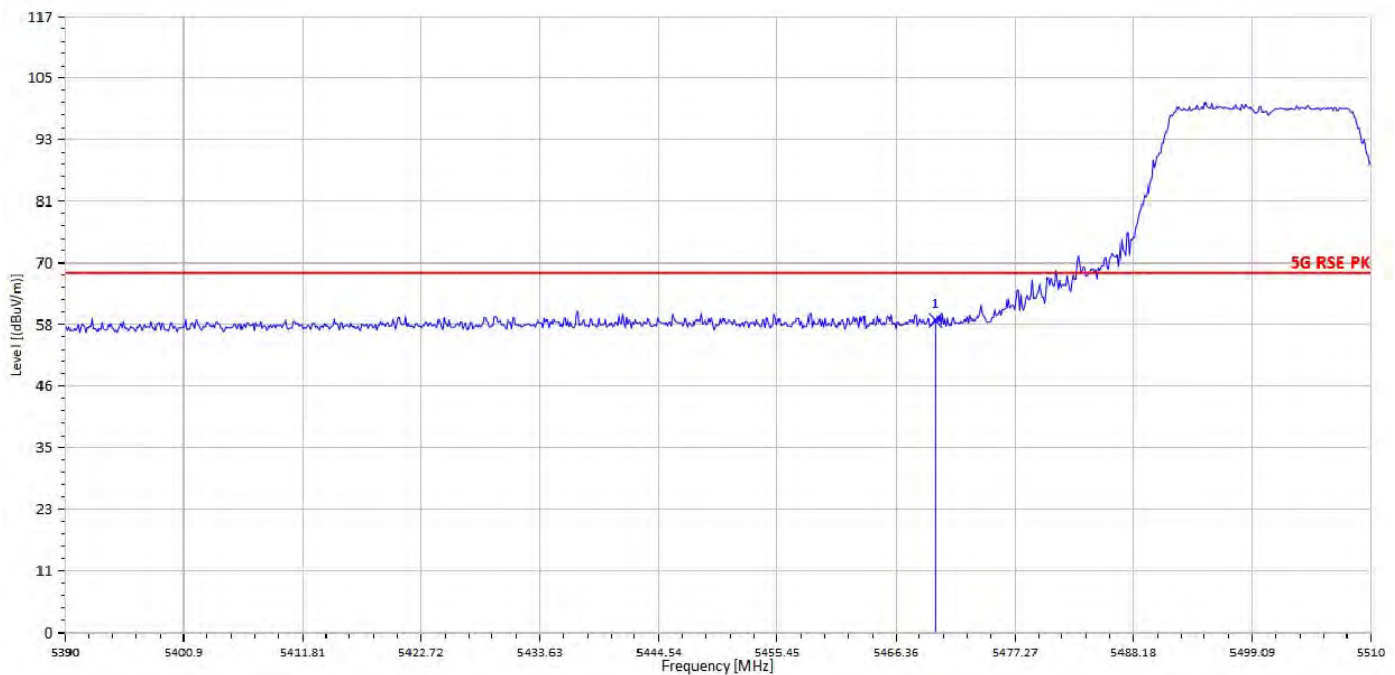
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Operation Mode :	802.11n20	Test Date :	2017/3/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5470.00	E	Peak	59.14	0.08	59.22	68.3	-9.08

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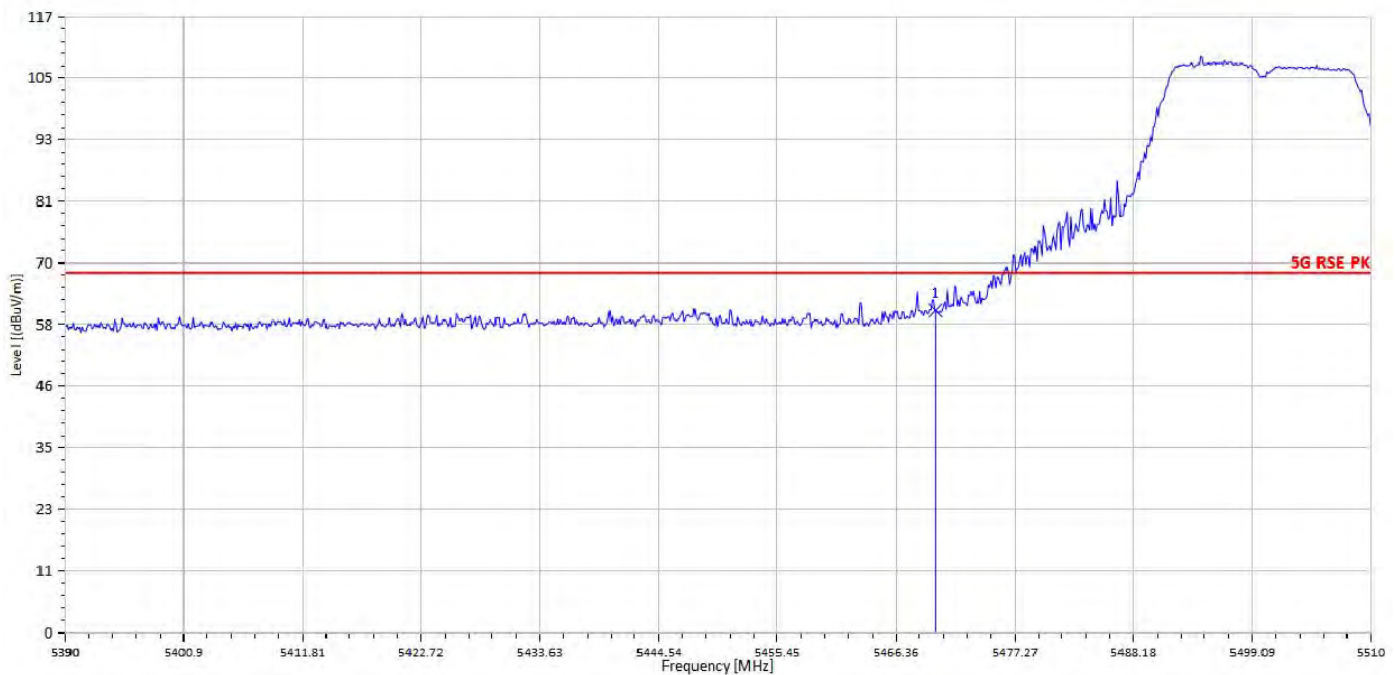
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Operation Mode :	802.11n20	Test Date :	2017/3/14
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5470.00	E	Peak	61.06	0.08	61.14	68.3	-7.16

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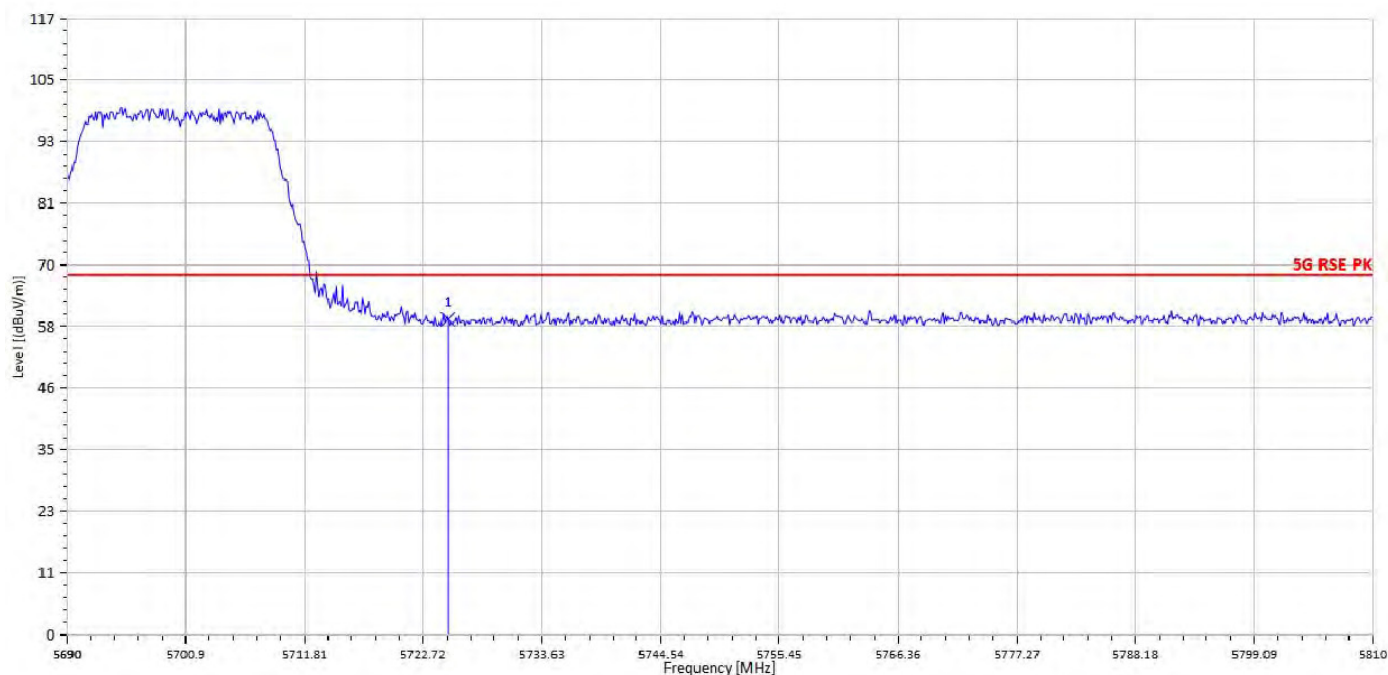
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Operation Mode :	802.11n20	Test Date :	2017/3/14
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	E	Peak	59.15	0.69	59.84	68.3	-8.46

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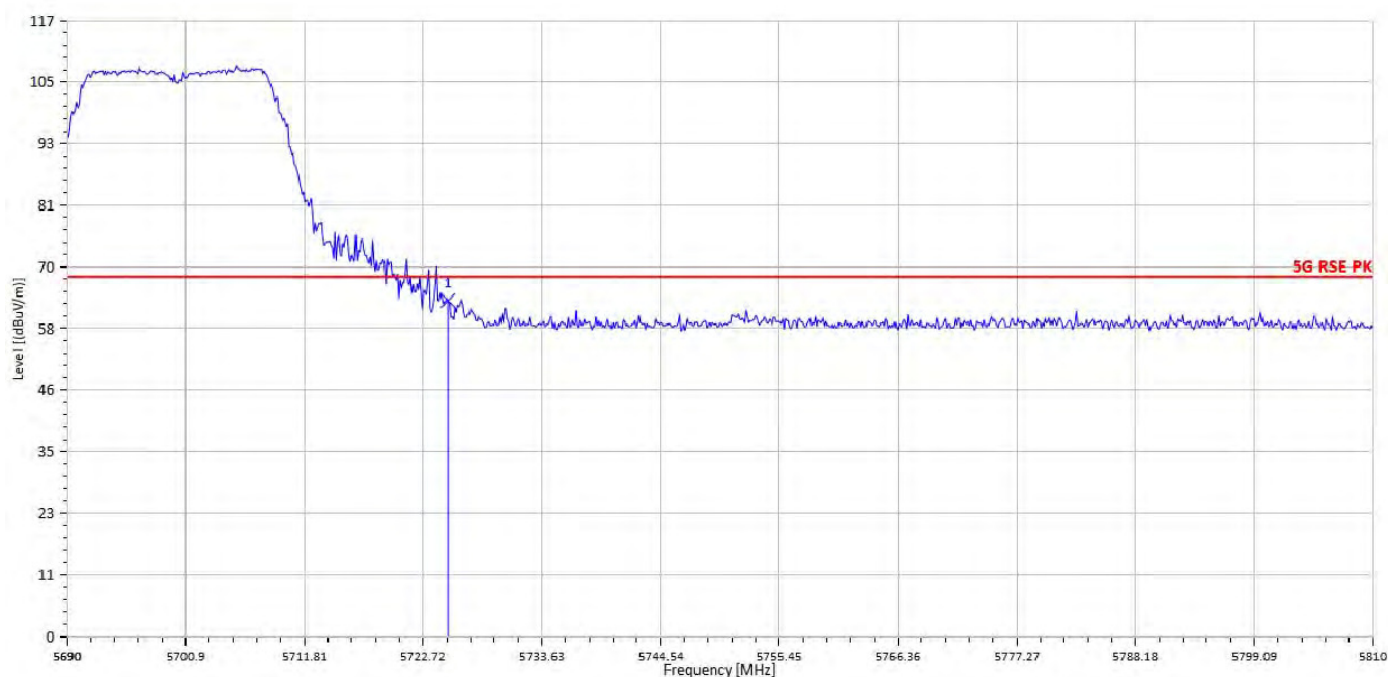
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Operation Mode :	802.11n20	Test Date :	2017/3/14
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	E	Peak	63.09	0.69	63.78	68.3	-4.52

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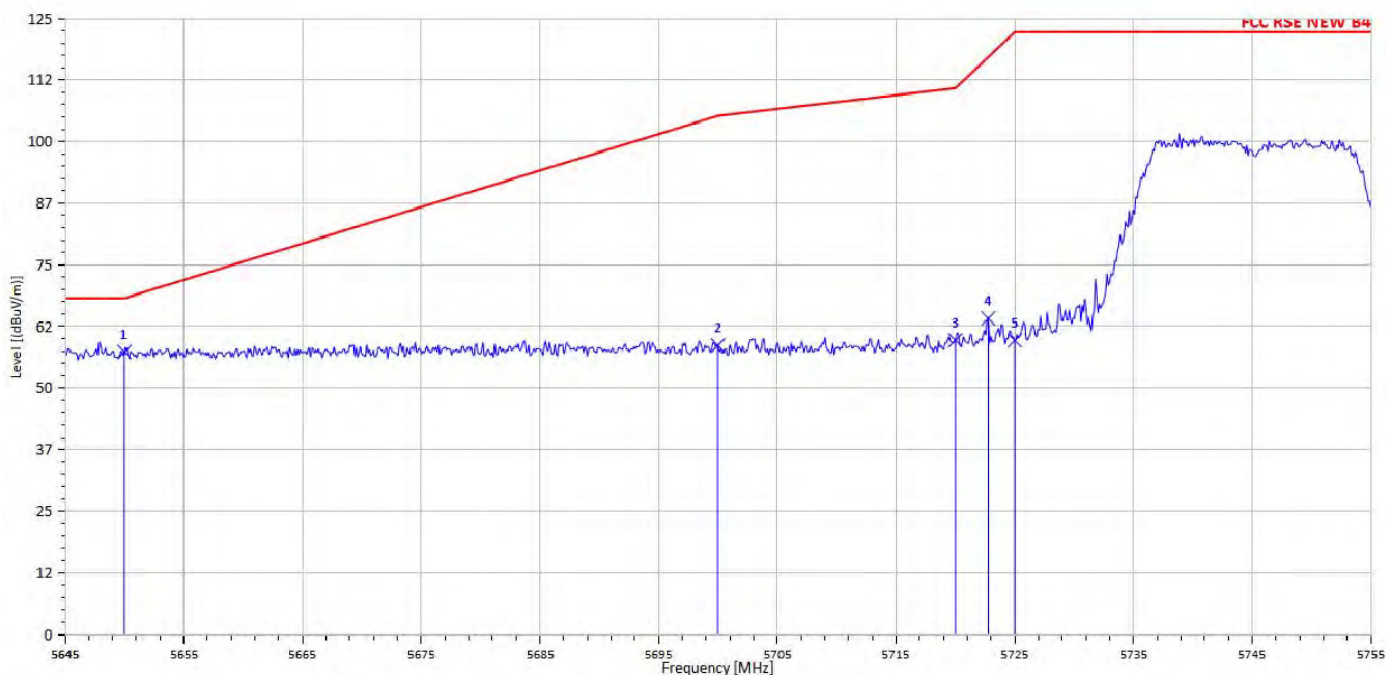
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Operation Mode : 802.11n20 Test Date : 2017/3/14
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH LOW Test Engineer : Tank
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	S	Peak	56.69	0.63	57.31	68.23	-10.92
5700.00	S	Peak	58.07	0.56	58.63	105.23	-46.60
5720.00	S	Peak	58.99	0.66	59.65	110.83	-51.18
5722.77	S	Peak	63.45	0.67	64.13	117.1456	-53.02
5725.00	E	Peak	58.97	0.69	59.65	122.23	-62.58

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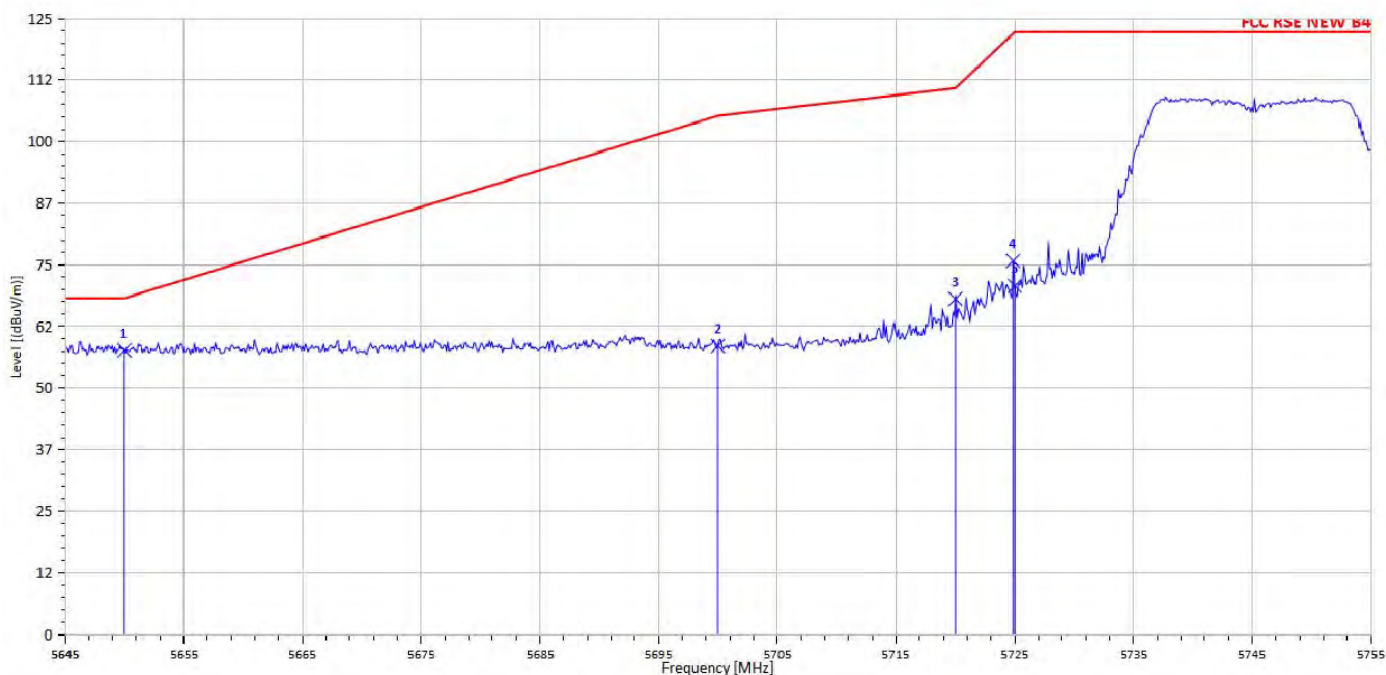
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Operation Mode :	802.11n20	Test Date :	2017/3/14
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57 RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	S	Peak	57.00	0.63	57.62	68.23	-10.61
5700.00	S	Peak	57.96	0.56	58.52	105.23	-46.71
5720.00	S	Peak	67.40	0.66	68.06	110.83	-42.77
5724.86	S	Peak	75.10	0.68	75.78	121.9105	-46.13
5725.00	E	Peak	70.03	0.69	70.72	122.23	-51.51

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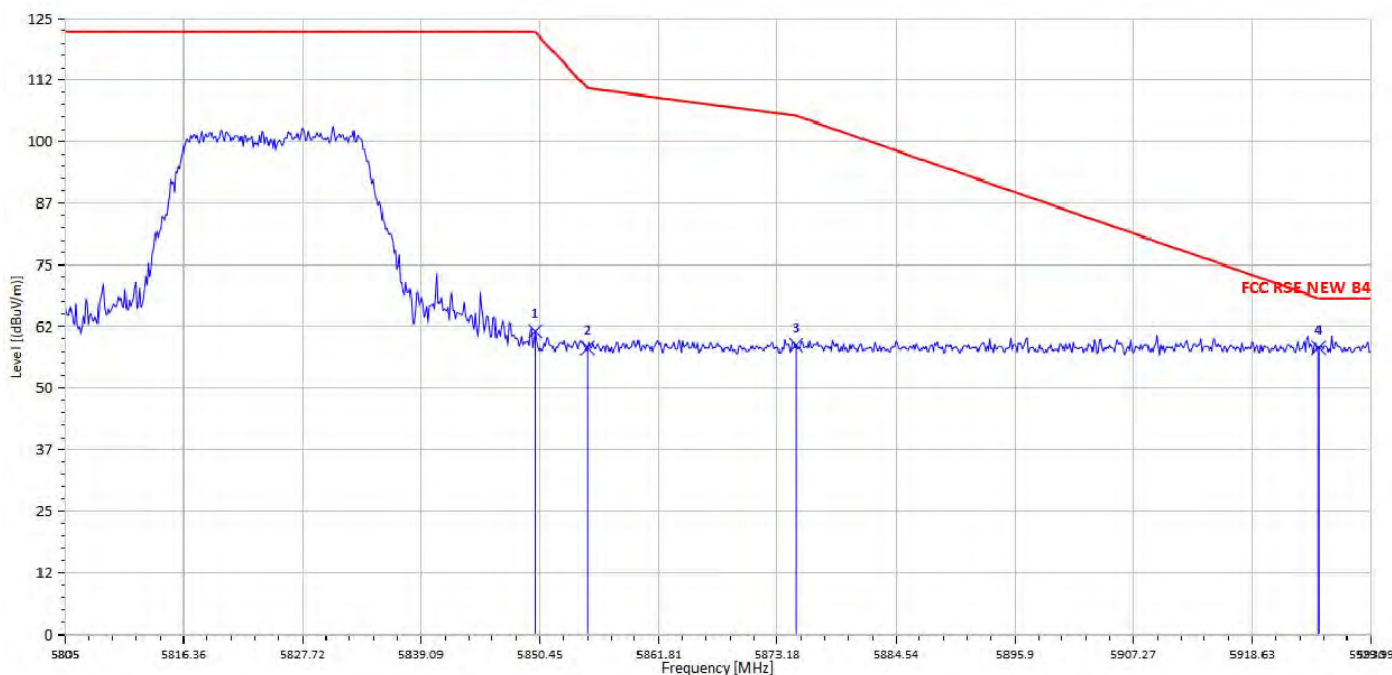
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Operation Mode :	802.11n20	Test Date :	2017/3/14
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5850.00	E	Peak	60.51	1.01	61.52	122.23	-60.71
5855.00	S	Peak	57.16	1.01	58.16	110.83	-52.67
5875.00	S	Peak	57.69	0.99	58.68	105.23	-46.55
5925.00	S	Peak	57.13	1.04	58.17	68.23	-10.06

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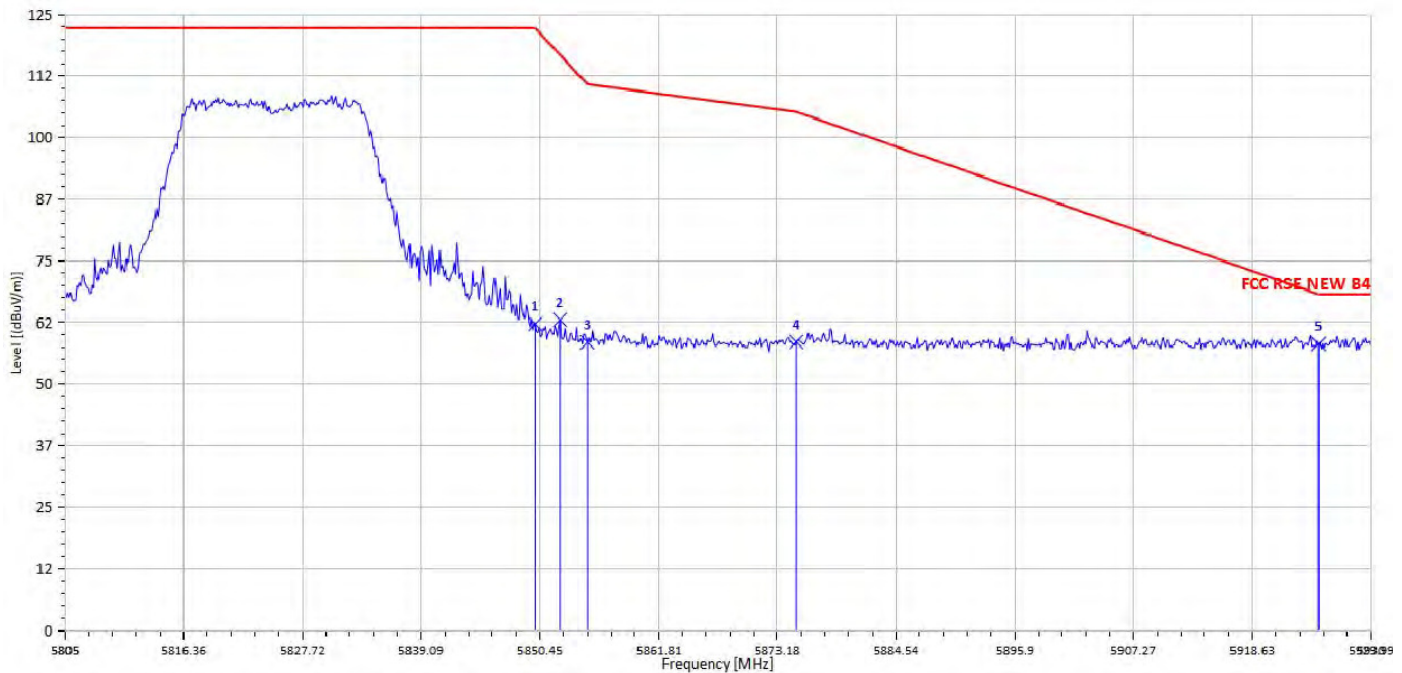
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Operation Mode : 802.11n20 Test Date : 2017/3/14
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	61.17	1.01	62.18	122.23	-60.05
5852.38	S	Peak	62.01	1.01	63.02	116.815	-53.79
5855.00	S	Peak	57.45	1.01	58.46	110.83	-52.37
5875.00	S	Peak	57.56	0.99	58.54	105.23	-46.69
5925.00	S	Peak	57.10	1.04	58.13	68.23	-10.10

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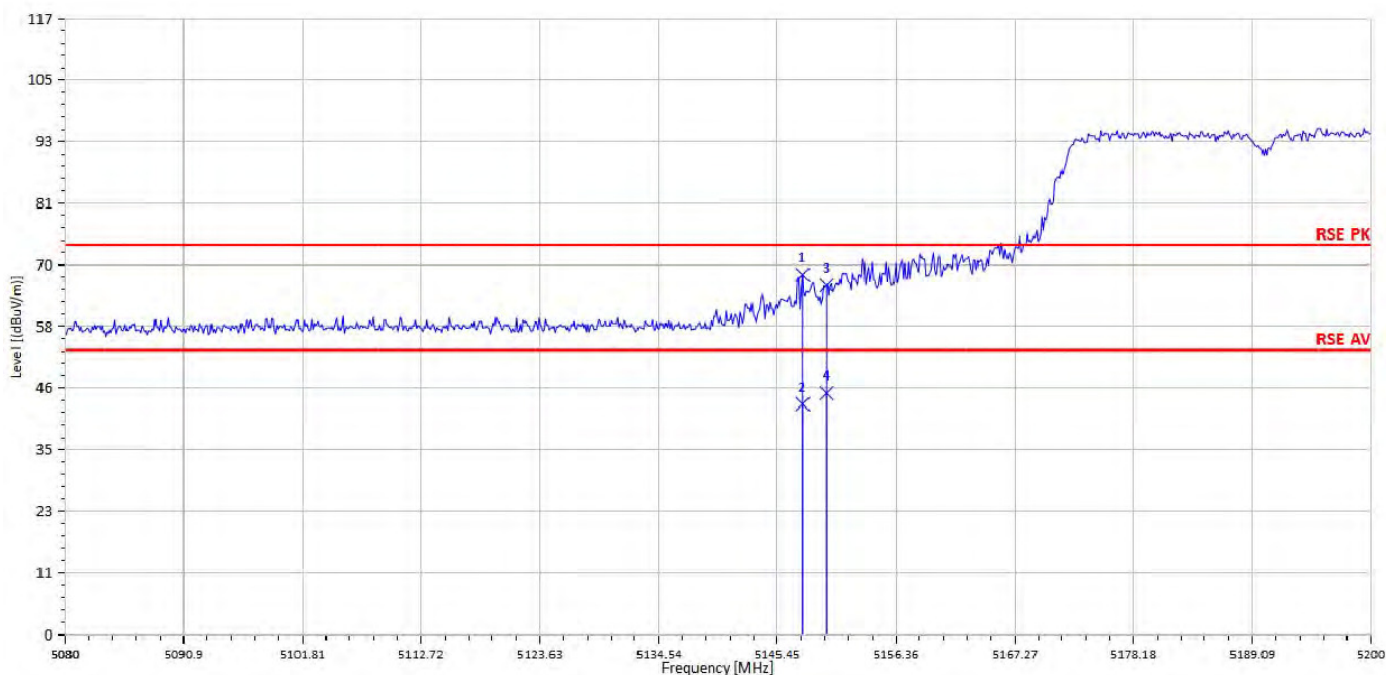
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802.11n40 HT mode

Operation Mode :	802.11n40	Test Date :	2017/3/14
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57 RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
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	68.49	-0.17	68.32	74	-5.68
5147.80	S	Average	43.92	-0.17	43.75	54	-10.25
5150.00	E	Peak	66.46	-0.17	66.29	74	-7.71
5150.00	E	Average	46.02	-0.17	45.85	54	-8.15

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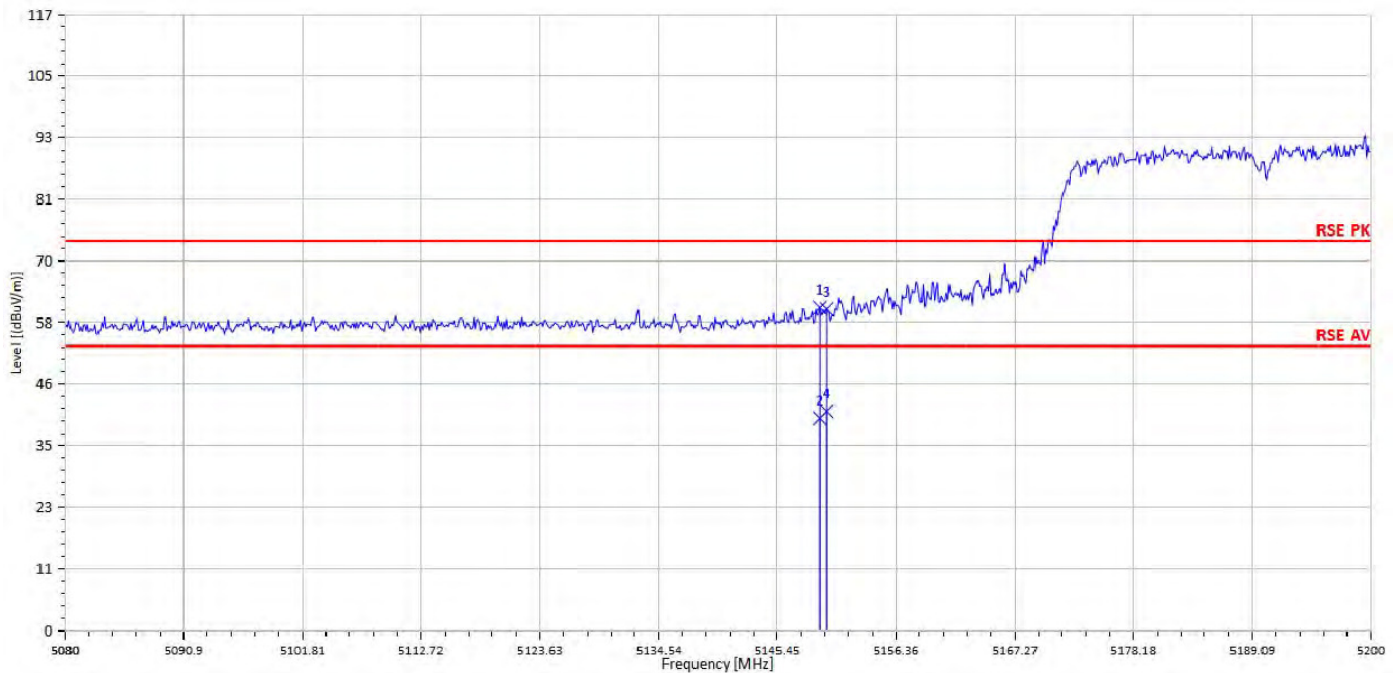
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Operation Mode : 802.11n40 Test Date : 2017/3/14
Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH LOW Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5149.36	S	Peak	61.45	-0.17	61.28	74	-12.72
5149.36	S	Average	40.43	-0.17	40.26	54	-13.74
5150.00	E	Peak	61.19	-0.17	61.02	74	-12.98
5150.00	E	Average	41.81	-0.17	41.64	54	-12.36

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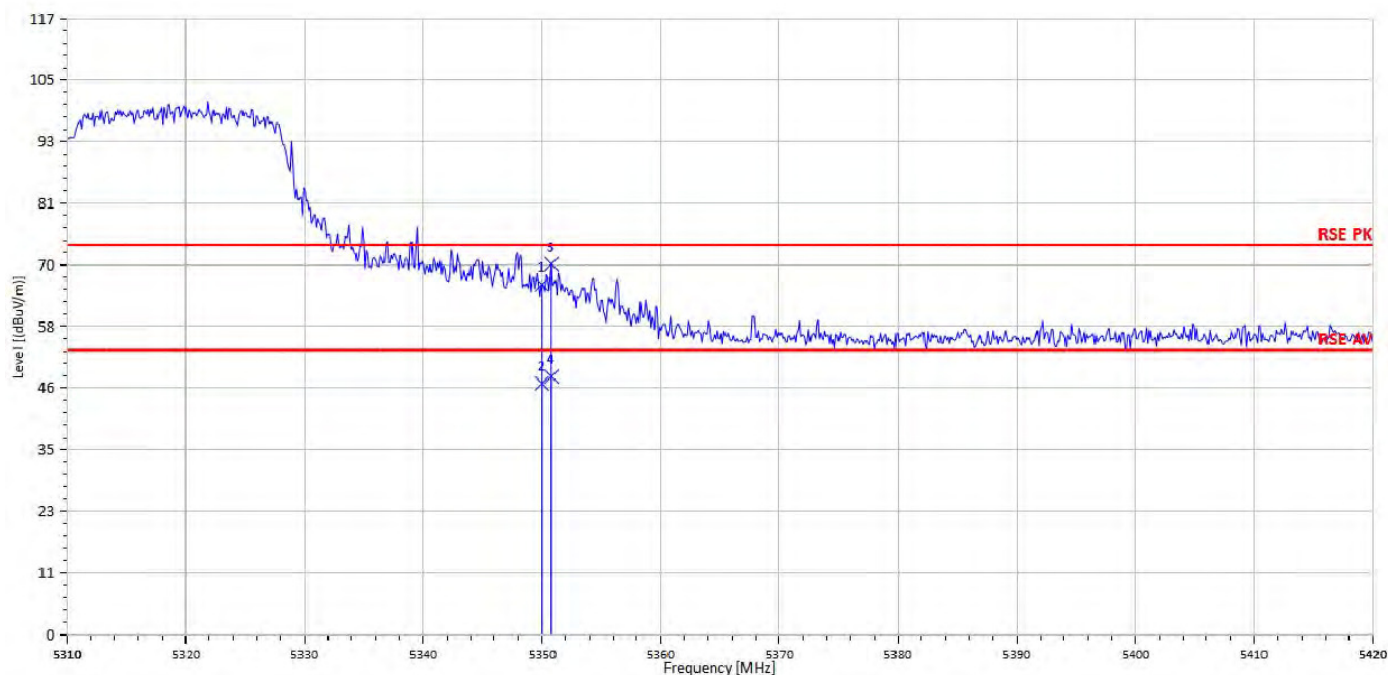
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Operation Mode : 802.11n40 Test Date : 2017/3/14
Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	E	Peak	66.52	-0.15	66.37	74	-7.63
5350.00	E	Average	47.82	-0.15	47.67	54	-6.33
5350.81	S	Peak	70.51	-0.15	70.35	74	-3.65
5350.81	S	Average	49.12	-0.15	48.97	54	-5.03

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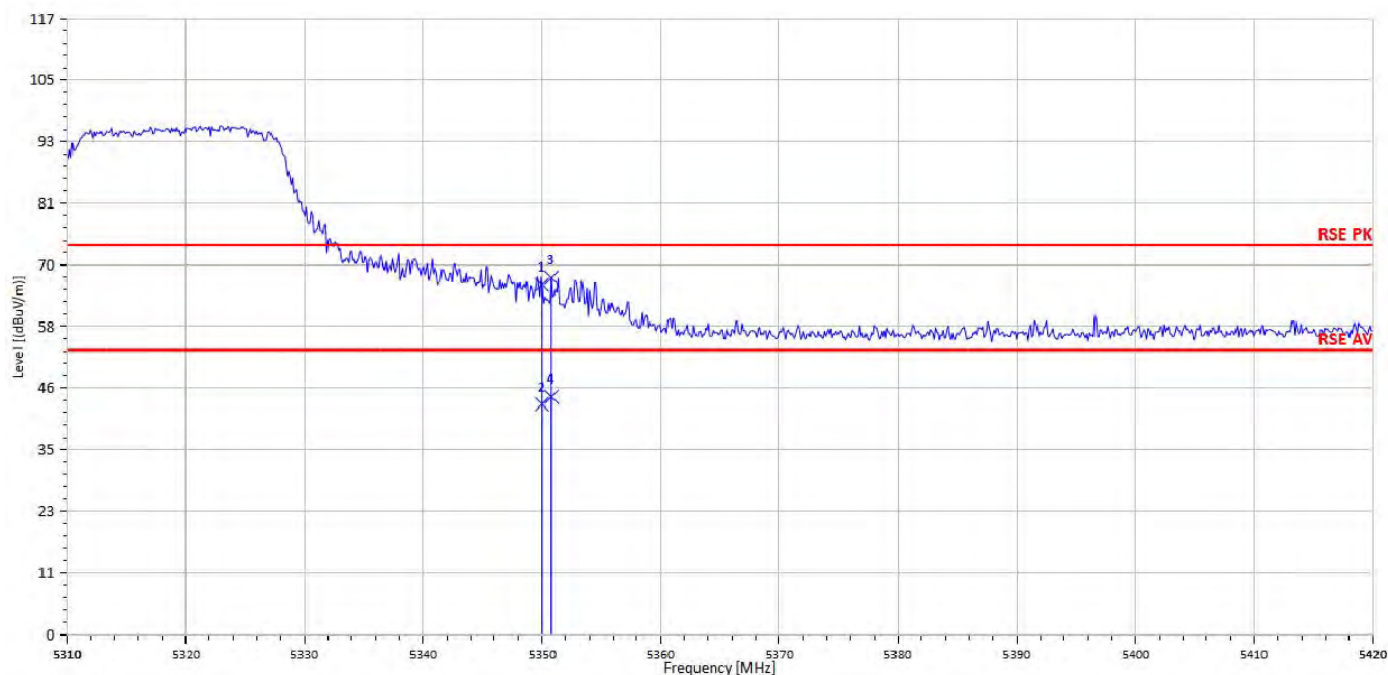
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Operation Mode : 802.11n40 Test Date : 2017/3/14
Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	E	Peak	66.58	-0.15	66.42	74	-7.58
5350.00	E	Average	43.89	-0.15	43.74	54	-10.27
5350.81	S	Peak	67.90	-0.15	67.74	74	-6.26
5350.81	S	Average	45.27	-0.15	45.12	54	-8.88

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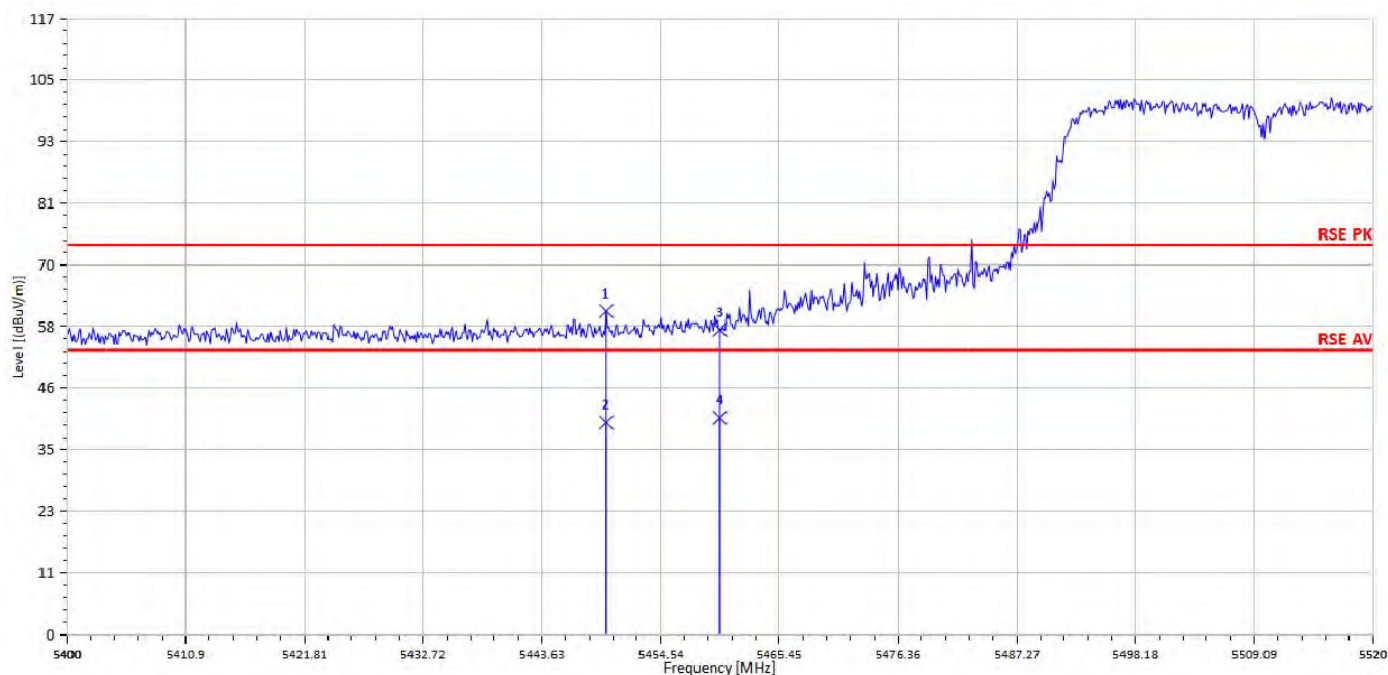
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Operation Mode :	802.11n40	Test Date :	2017/3/14
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5449.56	S	Peak	61.36	0.03	61.40	74	-12.60
5449.56	S	Average	40.20	0.03	40.23	54	-13.77
5460.00	E	Peak	57.83	0.06	57.89	74	-16.11
5460.00	E	Average	41.08	0.06	41.14	54	-12.86

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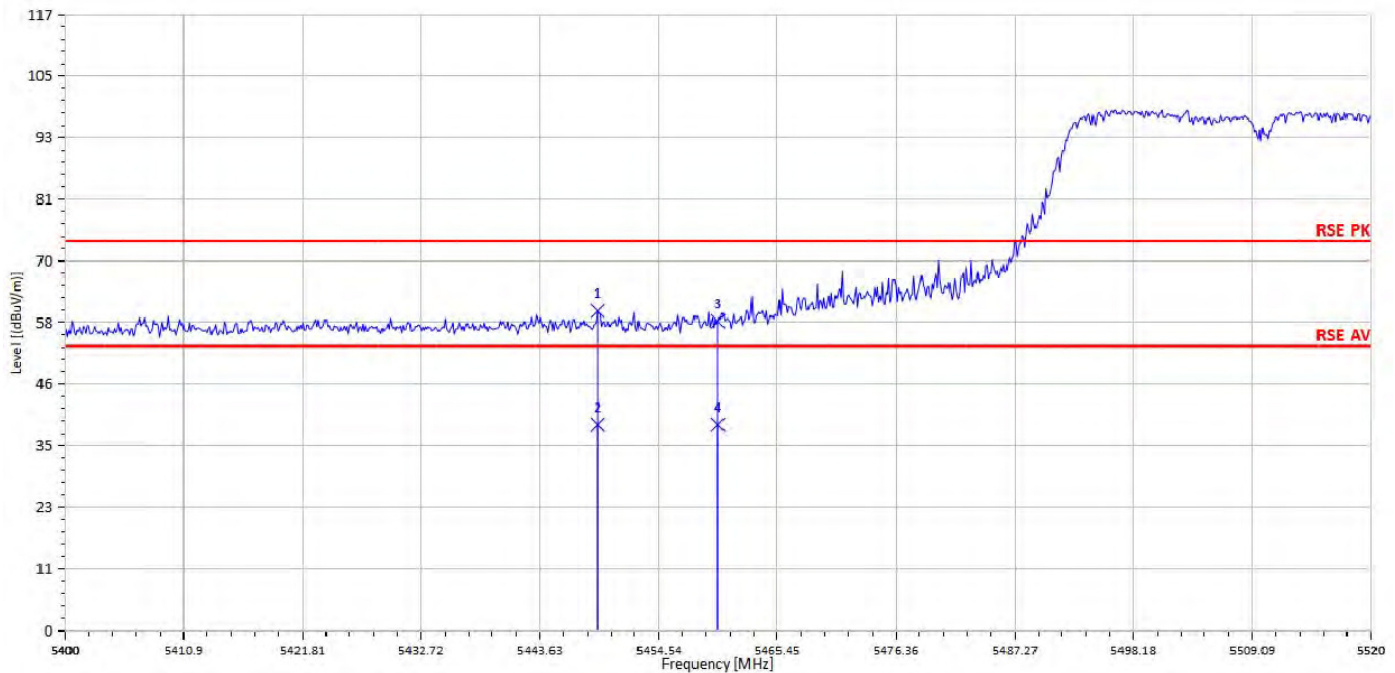
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Operation Mode :	802.11n40	Test Date :	2017/3/14
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5448.96	S	Peak	60.64	0.03	60.67	74	-13.33
5448.96	S	Average	38.98	0.03	39.01	54	-14.99
5460.00	E	Peak	58.64	0.06	58.70	74	-15.30
5460.00	E	Average	38.96	0.06	39.02	54	-14.98

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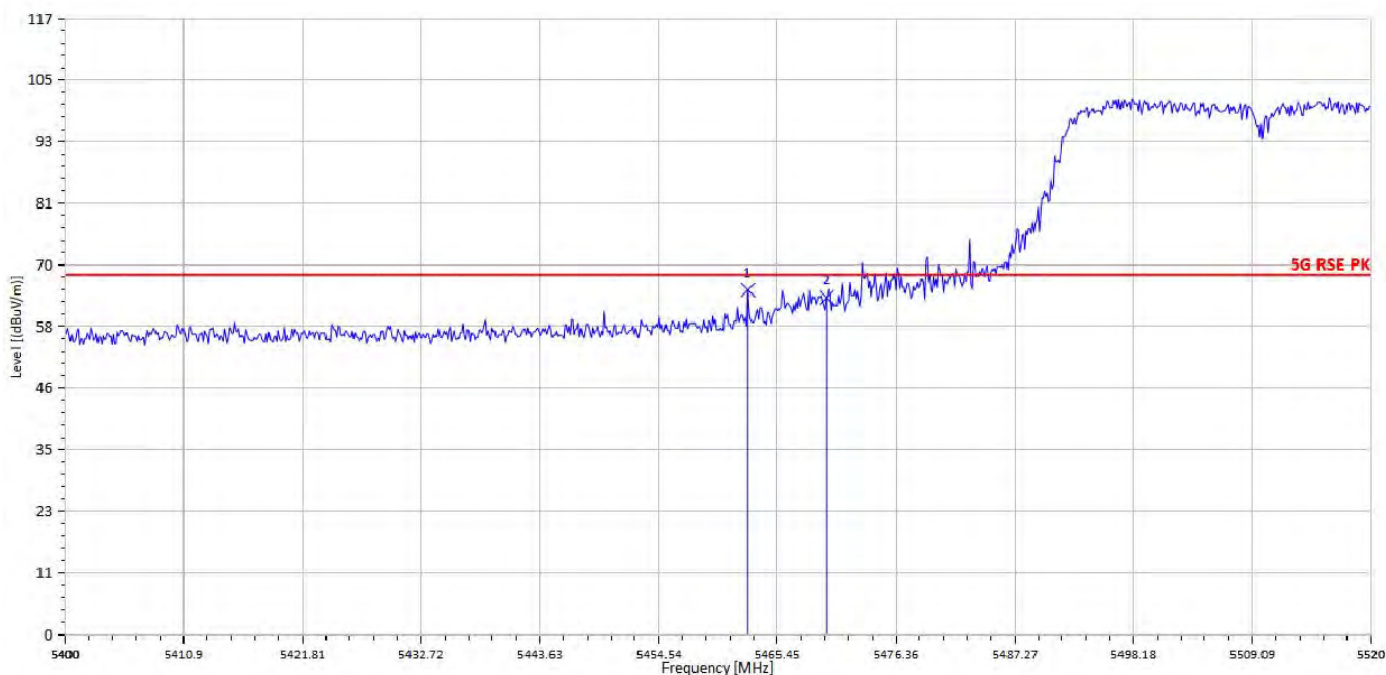
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Operation Mode : 802.11n40
 Fundamental Frequency : 5510 MHz
 Operation Band : BE CH LOW RSE
 EUT Pol. : E2

Test Date : 2017/3/14
 Temp. / Humi. : 22.7deg_C/57RH
 Test Engineer : Tank
 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
5462.76	S	Peak	65.34	0.06	65.41	68.3	-2.89
5470.00	E	Peak	63.87	0.08	63.95	68.3	-4.35

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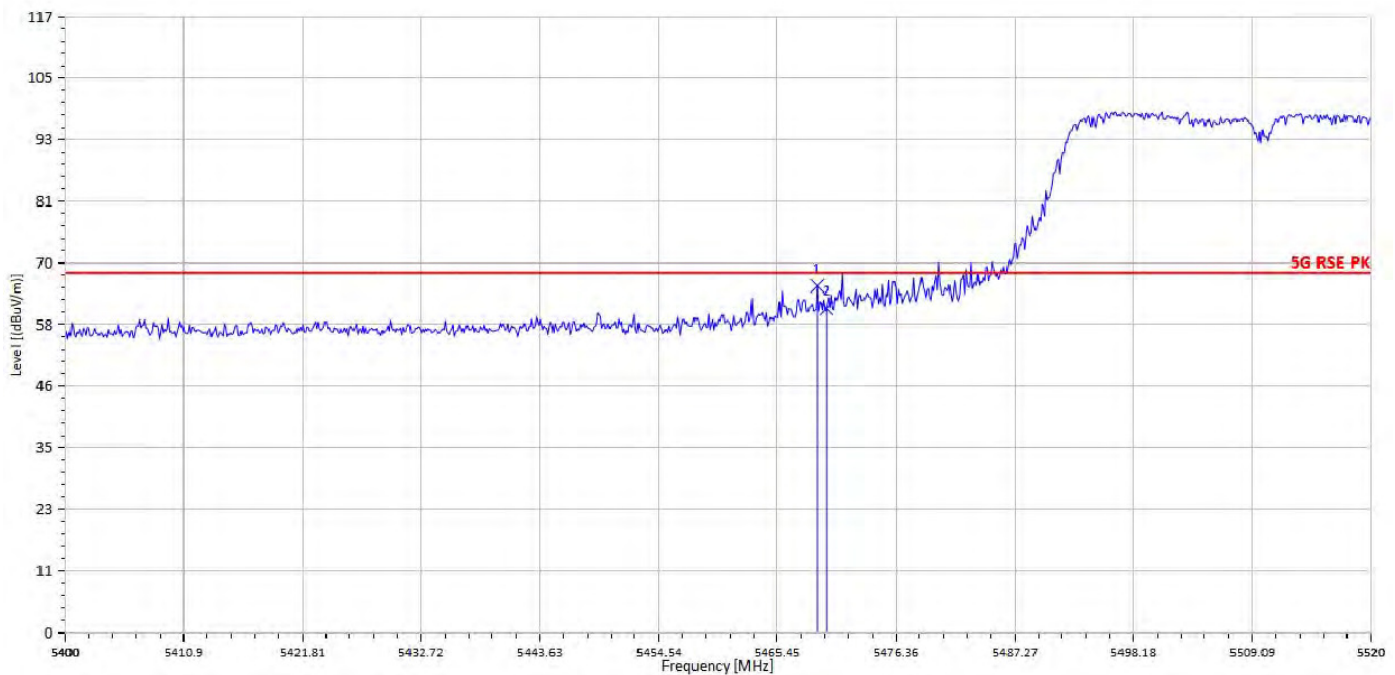
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Operation Mode :	802.11n40	Test Date :	2017/3/14
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5469.12	S	Peak	65.73	0.08	65.81	68.3	-2.49
5470.00	E	Peak	61.44	0.08	61.52	68.3	-6.78

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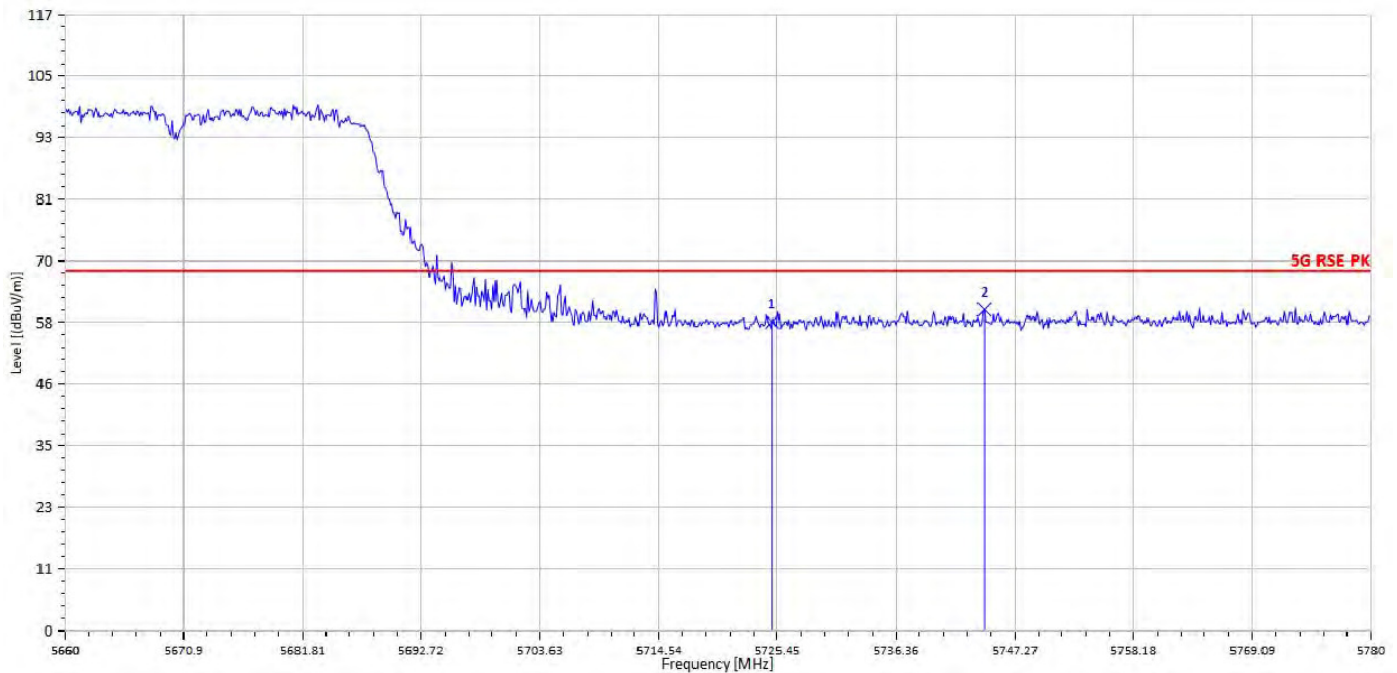
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Operation Mode : 802.11n40 Test Date : 2017/3/14
Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH HIGH Test Engineer : Tank
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	E	Peak	57.95	0.69	58.63	68.3	-9.67
5744.48	S	Peak	60.12	0.78	60.91	68.3	-7.39

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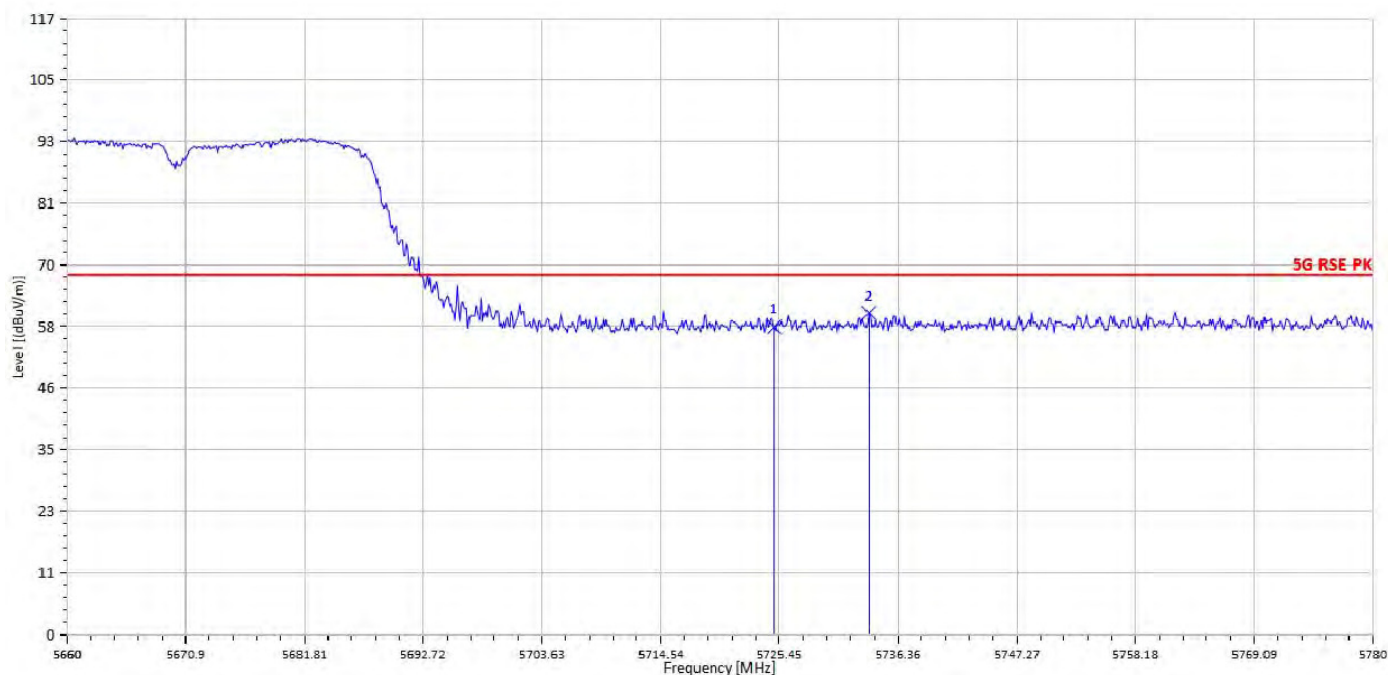
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Operation Mode :	802.11n40	Test Date :	2017/3/14
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5725.00	E	Peak	57.73	0.69	58.41	68.3	-9.89
5733.68	S	Peak	60.27	0.73	61.00	68.3	-7.30

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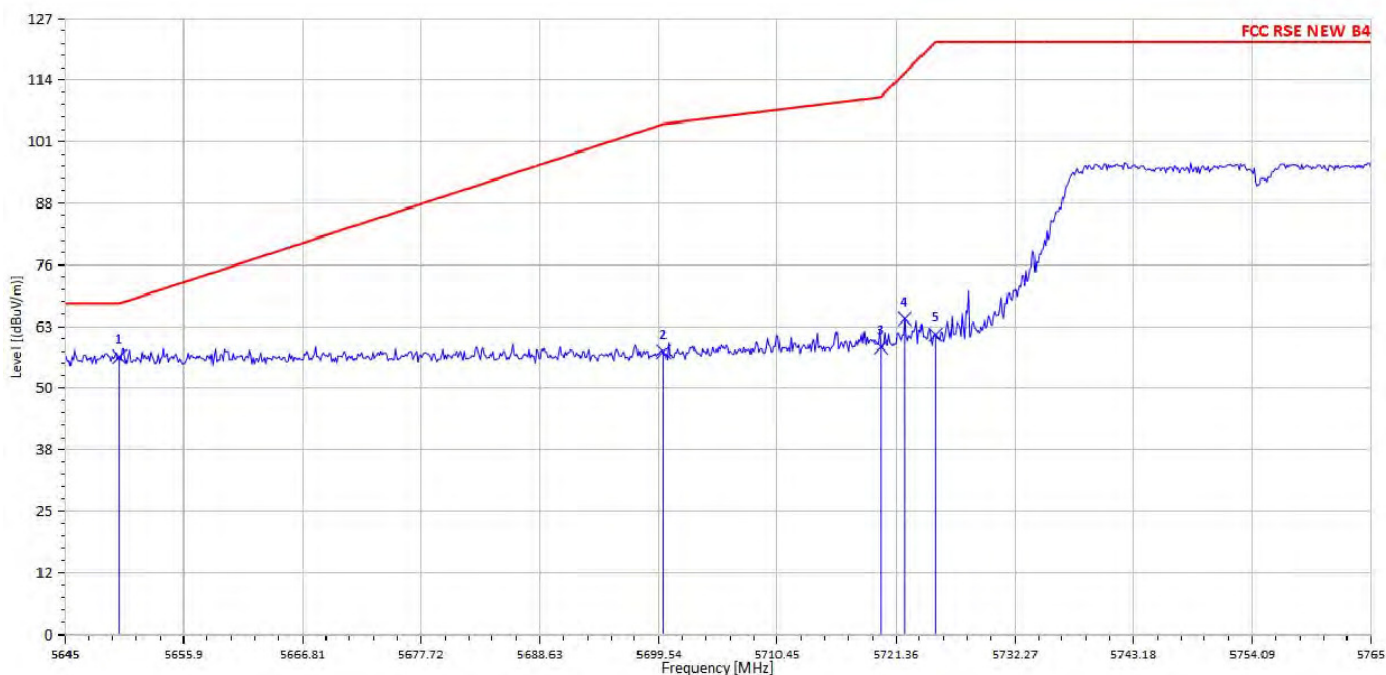
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Operation Mode :	802.11n40	Test Date :	2017/3/14
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	S	Peak	56.62	0.63	57.24	68.23	-10.99
5700.00	S	Peak	57.71	0.56	58.27	105.23	-46.96
5720.00	S	Peak	58.60	0.66	59.26	110.83	-51.57
5722.16	S	Peak	64.39	0.67	65.06	115.7552	-50.70
5725.00	E	Peak	61.09	0.69	61.78	122.23	-60.45

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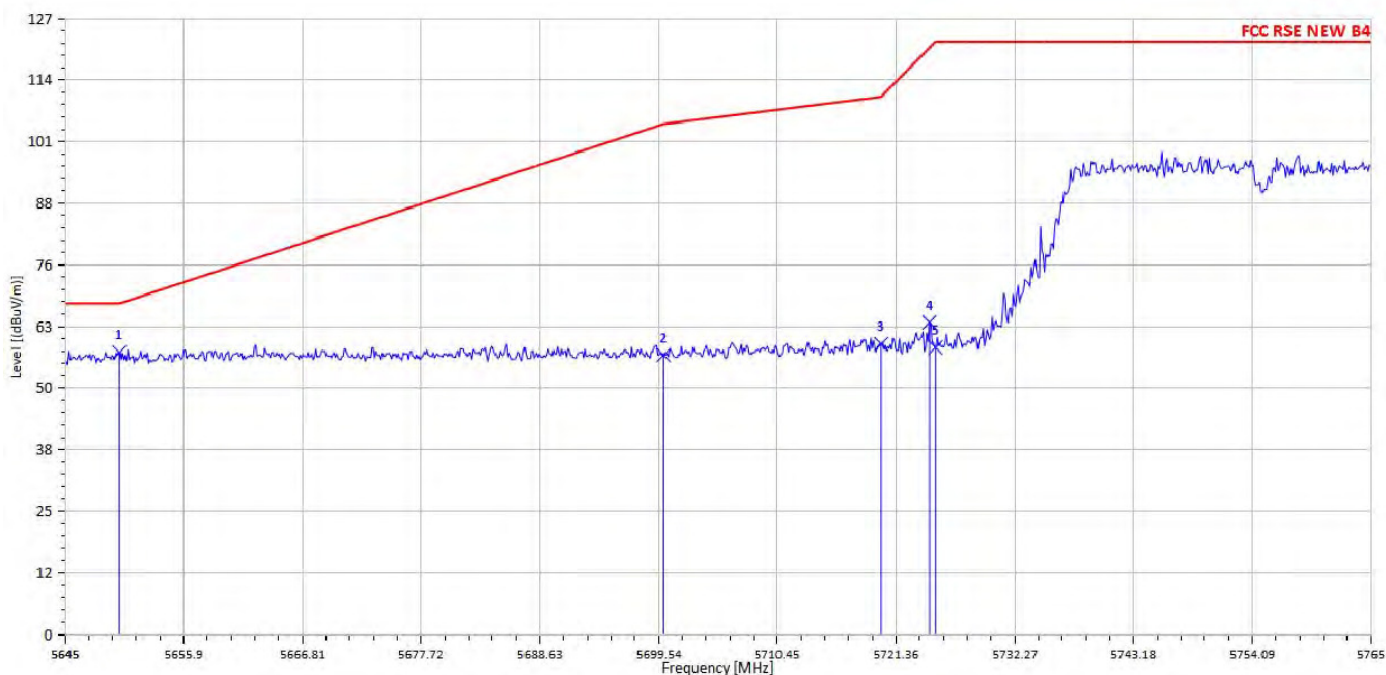
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Operation Mode :	802.11n40	Test Date :	2017/3/14
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	S	Peak	57.47	0.63	58.09	68.23	-10.14
5700.00	S	Peak	57.03	0.56	57.59	105.23	-47.64
5720.00	S	Peak	59.19	0.66	59.85	110.83	-50.98
5724.44	S	Peak	63.63	0.68	64.31	120.9531	-56.64
5725.00	E	Peak	58.48	0.69	59.16	122.23	-63.07

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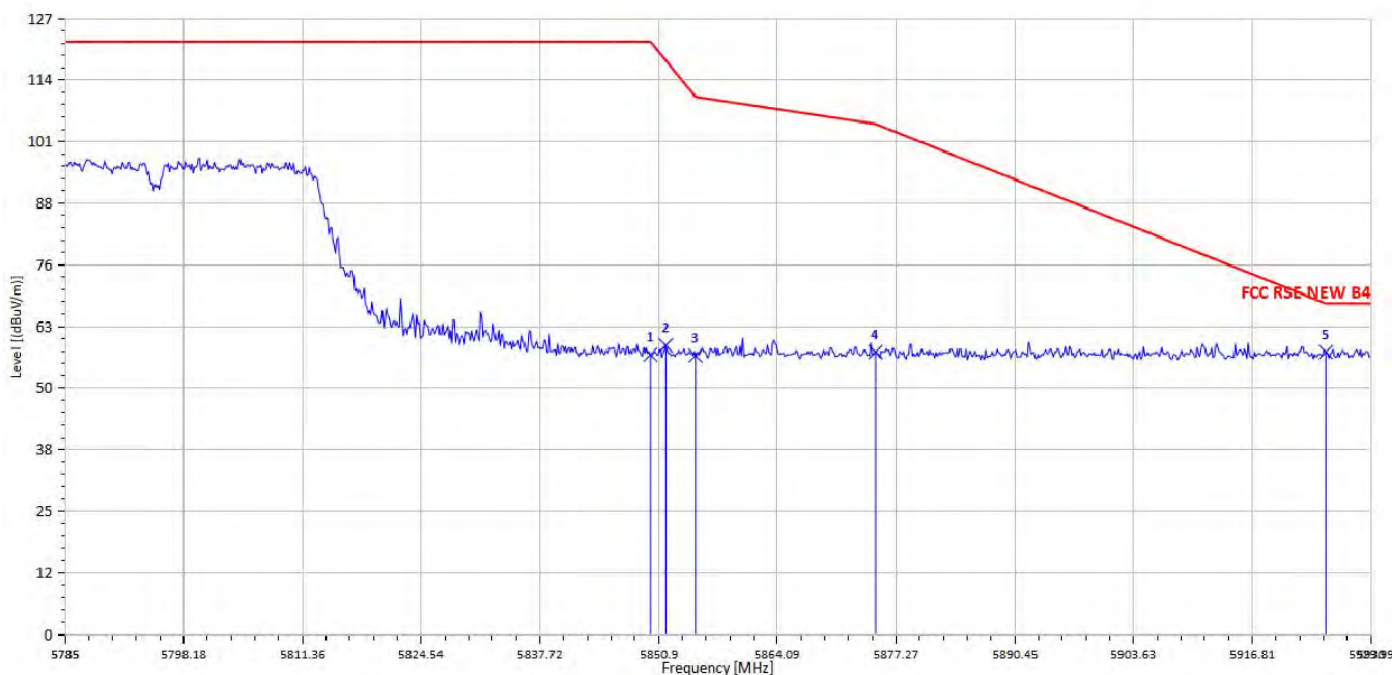
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Operation Mode :	802.11n40	Test Date :	2017/3/14
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.00	E	Peak	56.65	1.01	57.66	122.23	-64.57
5851.70	S	Peak	58.57	1.01	59.58	118.3536	-58.78
5855.00	S	Peak	56.47	1.01	57.47	110.83	-53.36
5875.00	S	Peak	57.23	0.99	58.21	105.23	-47.02
5925.00	S	Peak	57.16	1.04	58.20	68.23	-10.03

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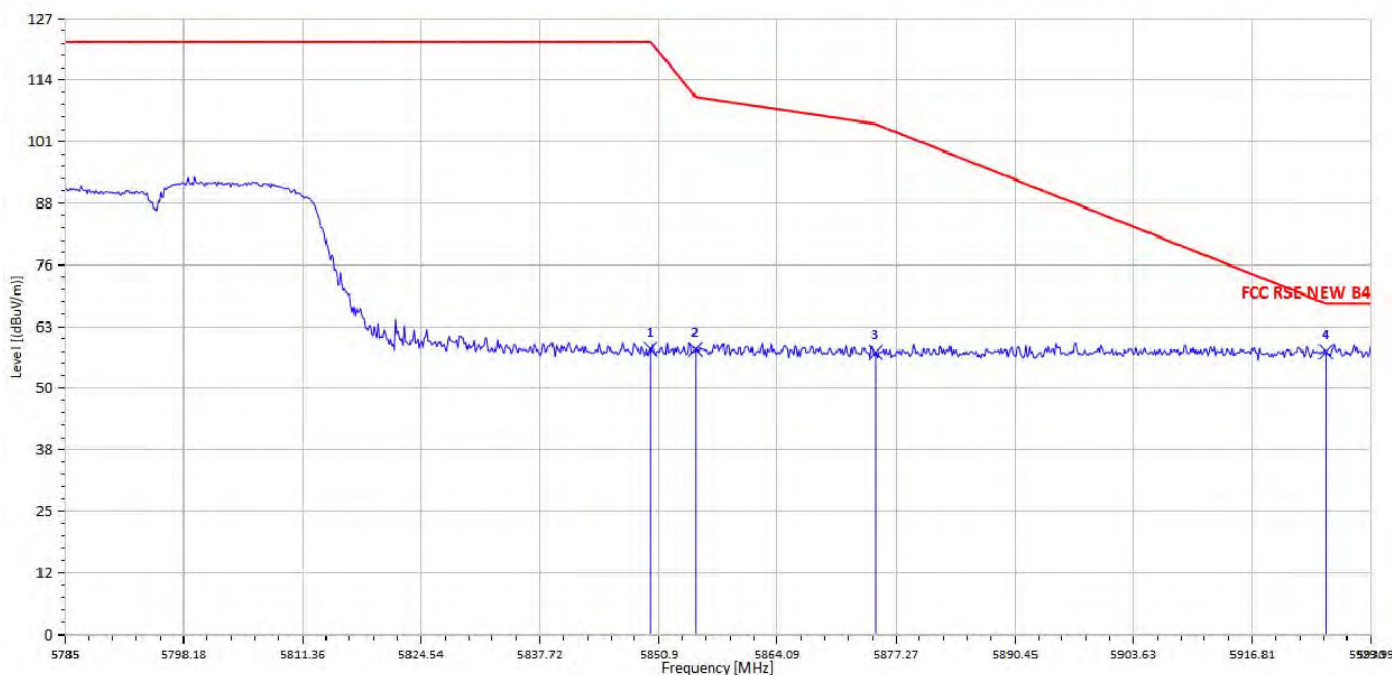
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Operation Mode :	802.11n40	Test Date :	2017/3/14
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
5850.00	E	Peak	57.79	1.01	58.80	122.23	-63.43
5855.00	S	Peak	57.75	1.01	58.75	110.83	-52.08
5875.00	S	Peak	57.13	0.99	58.12	105.23	-47.11
5925.00	S	Peak	57.21	1.04	58.25	68.23	-9.98

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12. TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

No non-compliance noted:

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

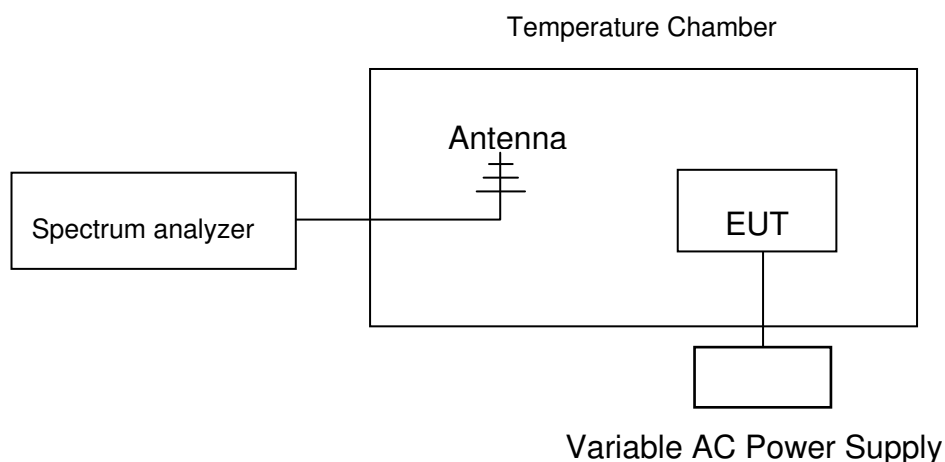
13.1 Standard Applicable

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



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13.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBDA	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	05/04/2016	05/03/2017

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13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2017.03.02
Temperature	:18 °C	Test By	Henry
Humidity	:64 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.37V	36	5180	5,179.95633	0.00000843
		44	5220	5,219.95569	0.00000849
		48	5240	5,239.95431	0.00000872
		52	5260	5,259.95317	0.00000890
		60	5300	5,299.95260	0.00000894
		64	5320	5,319.95261	0.00000891
		100	5500	5,499.94955	0.00000917
		116	5580	5,579.94785	0.00000935
		140	5700	5,699.94624	0.00000943
		149	5745	5,744.94550	0.00000949
		157	5785	5,784.94491	0.00000952
		165	5825	5,824.94484	0.00000947
	3.6V	36	5180	5,179.95671	0.00000836
		44	5220	5,219.95595	0.00000844
		48	5240	5,239.95462	0.00000866
		52	5260	5,259.95331	0.00000888
		60	5300	5,299.95210	0.00000904
		64	5320	5,319.95209	0.00000901
		100	5500	5,499.94974	0.00000914
		116	5580	5,579.94752	0.00000941
		140	5700	5,699.94669	0.00000935
		149	5745	5,744.94571	0.00000945
		157	5785	5,784.94538	0.00000944
		165	5825	5,824.94517	0.00000941

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25 °C	3.8V	36	5180	5,179.95684	0.00000833
		44	5220	5,219.95603	0.00000842
		48	5240	5,239.95477	0.00000863
		52	5260	5,259.95352	0.00000884
		60	5300	5,299.95264	0.00000894
		64	5320	5,319.95263	0.00000890
		100	5500	5,499.95007	0.00000908
		116	5580	5,579.94804	0.00000931
		140	5700	5,699.94676	0.00000934
		149	5745	5,744.94609	0.00000938
		157	5785	5,784.94548	0.00000942
		165	5825	5,824.94532	0.00000939
55 °C	4.37V	36	5180	5,179.95650	0.00000840
		44	5220	5,219.95590	0.00000845
		48	5240	5,239.95475	0.00000864
		52	5260	5,259.95343	0.00000885
		60	5300	5,299.95221	0.00000902
		64	5320	5,319.95257	0.00000892
		100	5500	5,499.94983	0.00000912
		116	5580	5,579.94775	0.00000936
		140	5700	5,699.94654	0.00000938
		149	5745	5,744.94586	0.00000942
		157	5785	5,784.94514	0.00000948
		165	5825	5,824.94516	0.00000941
	3.6V	36	5180	5,179.95665	0.00000837
		44	5220	5,219.95558	0.00000851
		48	5240	5,239.95432	0.00000872
		52	5260	5,259.95305	0.00000893
		60	5300	5,299.95234	0.00000899
		64	5320	5,319.95215	0.00000899
		100	5500	5,499.94982	0.00000912
		116	5580	5,579.94778	0.00000936
		140	5700	5,699.94661	0.00000937
		149	5745	5,744.94591	0.00000942
		157	5785	5,784.94524	0.00000947
		165	5825	5,824.94526	0.00000940

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Operation Mode	802.11 n_HT40	Test Date	2017.03.02
Temperature	:18 °C	Test By	Henry
Humidity	:64 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.37V	38	5190	5,189.91840	0.00001572
		46	5230	5,229.88916	0.00002119
		54	5270	5,269.93434	0.00001246
		62	5310	5,309.90270	0.00001832
		102	5510	5,509.94204	0.00001052
		110	5550	5,549.89360	0.00001917
		134	5670	5,669.89542	0.00001844
		151	5755	5,754.90812	0.00001597
		159	5795	5,794.92481	0.00001297
	3.6V	38	5190	5,189.90289	0.00001871
		46	5230	5,229.91858	0.00001557
		54	5270	5,269.92385	0.00001445
		62	5310	5,309.87648	0.00002326
		102	5510	5,509.91269	0.00001585
		110	5550	5,549.94318	0.00001024
		134	5670	5,669.91312	0.00001532
		151	5755	5,754.92179	0.00001359
		159	5795	5,794.92600	0.00001277

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25 °C	3.8V	38	5190	5,189.95228	0.00000919
		46	5230	5,229.95258	0.00000907
		54	5270	5,269.95187	0.00000913
		62	5310	5,309.95121	0.00000919
		102	5510	5,509.94812	0.00000942
		110	5550	5,549.94776	0.00000941
		134	5670	5,669.94664	0.00000941
		151	5755	5,754.94533	0.00000950
		159	5795	5,794.94504	0.00000948
55 °C	4.37V	38	5190	5,189.92649	0.00001416
		46	5230	5,229.90303	0.00001854
		54	5270	5,269.87245	0.00002420
		62	5310	5,309.88787	0.00002112
		102	5510	5,509.93404	0.00001197
		110	5550	5,549.88704	0.00002035
		134	5670	5,669.86772	0.00002333
		151	5755	5,754.89567	0.00001813
		159	5795	5,794.87351	0.00002183
	3.6V	38	5190	5,189.93715	0.00001211
		46	5230	5,229.88346	0.00002228
		54	5270	5,269.94718	0.00001002
		62	5310	5,309.87899	0.00002279
		102	5510	5,509.87007	0.00002358
		110	5550	5,549.91636	0.00001507
		134	5670	5,669.88879	0.00001961
		151	5755	5,754.87997	0.00002086
		159	5795	5,794.90154	0.00001699

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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

An embedded-in antenna design is used.

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

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

~ End of Report ~

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