ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name:	**Tablet Computer**
Marketing Name:	**GP8**
Brand Name:	acer
Model No.:	**A6201**
Model Difference:	**N/A**
FCC ID:	**HLZA6201**
Report No.:	**E2/2016/A0029**
Issue Date:	**Nov. 09, 2016**
FCC Rule Part:	**§15.247, Cat: DTS**
Prepared for:	**Acer Incorporated** **8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181, Taiwan (R.O.C)**
Prepared by:	**SGS Taiwan Ltd.** **Electronics & Communication Laboratory** **No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333**

ilac-MRA TAF Testing Laboratory 0513	***Note:*** *This report shall not be reproduced except in full, without the written approval of SGS Taiwan Ltd. This document may be altered or revised by SGS Taiwan Ltd. personnel only, and shall be noted in the revision section of the document.*

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VERIFICATION OF COMPLIANCE

Applicant:	Acer Incorporated 8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181, Taiwan (R.O.C)
Product Name:	Tablet Computer
Marketing Name:	GP8
Brand Name:	acer
Model No.:	A6201
Model Difference:	N/A
FCC ID:	HLZA6201
File Number:	E2/2016/A0029
Date of Test:	Oct. 18, 2016 ~ Nov. 04, 2016
Date of EUT Received:	Oct. 18, 2016

We hereby certify that:

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

Test By:	Vito	***Date:***	Nov. 09, 2016
	Vito Pei / Sr. Engineer		
Prepared By:	Tiffany Kao	***Date:***	Nov. 09, 2016
	Tiffany Kao / Clerk		
Approved By:	Jim Chang	***Date:***	Nov. 09, 2016
	Jim Chang / Asst. Manager		

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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/A0029	Rev.00	Initial creation of document	Nov. 09, 2016

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Contents

1 GENERAL INFORMATION 5
2 SYSTEM TEST CONFIGURATION 8
3 SUMMARY OF TEST RESULTS 10
4 DESCRIPTION OF TEST MODES 11
5 MEASUREMENT UNCERTAINTY 13
6 CONDUCTED EMISSION TEST 14
7 DUTY CYCLE OF TEST SIGNAL 20
8 PEAK OUTPUT POWER MEASUREMENT 23
9 6dB BANDWIDTH MEASUREMENT 27
10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT 37
11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT 60
12 PEAK POWER SPECTRAL DENSITY 103
13 ANTENNA REQUIREMENT 111

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	Tablet Computer	
Marketing Name:	GP8	
Brand Name:	acer	
Model No.:	A6201	
Model Difference:	N/A	
Product SW/HW version:	Acer_AV0M0_A6201_RV10RC01_PA_VERIZON / V03	
Radio SW/HW version:	MPSS.TA.2.2.c1-00190-8953_GEN_PACK-1 / WCN3660B	
USB Cable:	Model No: 3080199058 Supplier: Component USER INDUCTRY	
WPC Docking:	Model No: WCD02005B Supplier: CWT	
WPC Docking adapter:	Model No: 2AAJ012F Supplier: Channel Well	
Power Supply:	3.8 Vdc from Rechargeable Li-polymer Battery or 5 V from AC/DC Adapter	
	Battery:	Model No.: AP14F8K(1ICP4/101/110), Supplier:LG Chem, Ltd.
	Adapter:	Model No.: NSS050200BU, Supplier: Tamura.

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WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11b/g	2412-2462	11	b: 18.97dBm g: 25.06dBm	DSSS, OFDM
11n	HT 20 2412-2462	11	HT20: 24.19dBm	OFDM
11n	HT 40 2422-2452	7	HT40: 24.18dBm	OFDM
Antenna Designation:		PIFA Antenna, Gain: 0.25dBi		
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		802.11 b: 1/2/5.5/11 Mbps 802.11 g: 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 C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance

KDB648474 D03 Wireless Chargers Battery Cover

ANSI C63.10:2013

Note:

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

1.3 Test Facility

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

FCC Registration Numbers are: 735305

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 1.9dB and 10dB attenuator.

Offset:

= RF cable loss (dB)+ attenuation factor(dB) dB =11.6dB)

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

Fig. 2-2 Conduction (AC Power Line) Configuration

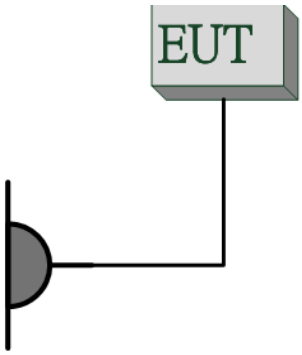

Fig. 2-3 Conducted (Antenna Port)

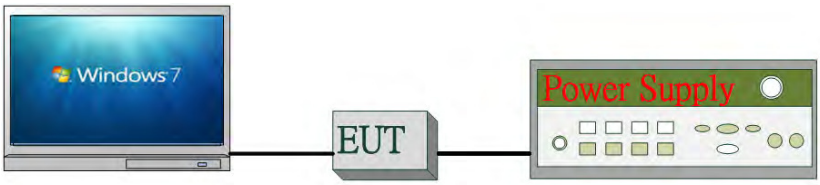

Table 2-1 Equipment Used in Tested System

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	R9-YYG88	Shielded	Un-shielded
3.	DC Power Supply	Agilent	E3640A	MY52410006	N/A	Un-Shielded

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB & 99% Emission Bandwidth	Compliant
§15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b, 802.11g and 802.11n_HT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

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RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	11	Main
802.11g	1 to 11	1, 6, 11	OFDM	54	Main
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0	Main
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 0	Main

Note:
Per KDB 648474 D03, spurious emissions measurement data was investigated with the wireless charging battery cover. Additional emissions testing were performed per KDB 648474 D03 and the worst case emissions are reported herein and identified as normal mode.
The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth LE Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	11	Main
802.11g	1 to 11	1, 6, 11	OFDM	54	Main
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0	Main
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 0	Main

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
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 150kHz to 30MHz 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	12/12/2015	12/11/2016
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	02/07/2016	02/06/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017
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 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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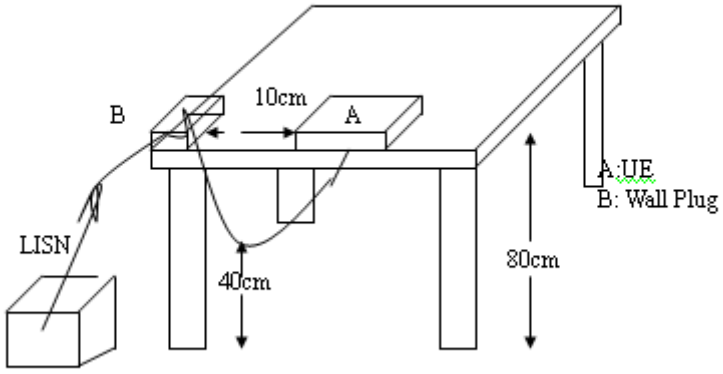
6.4 Test SET-UP (Block Diagram of Configuration)



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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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	operation mode	Test By:	Vito
Model No.:	NSS050200BU		

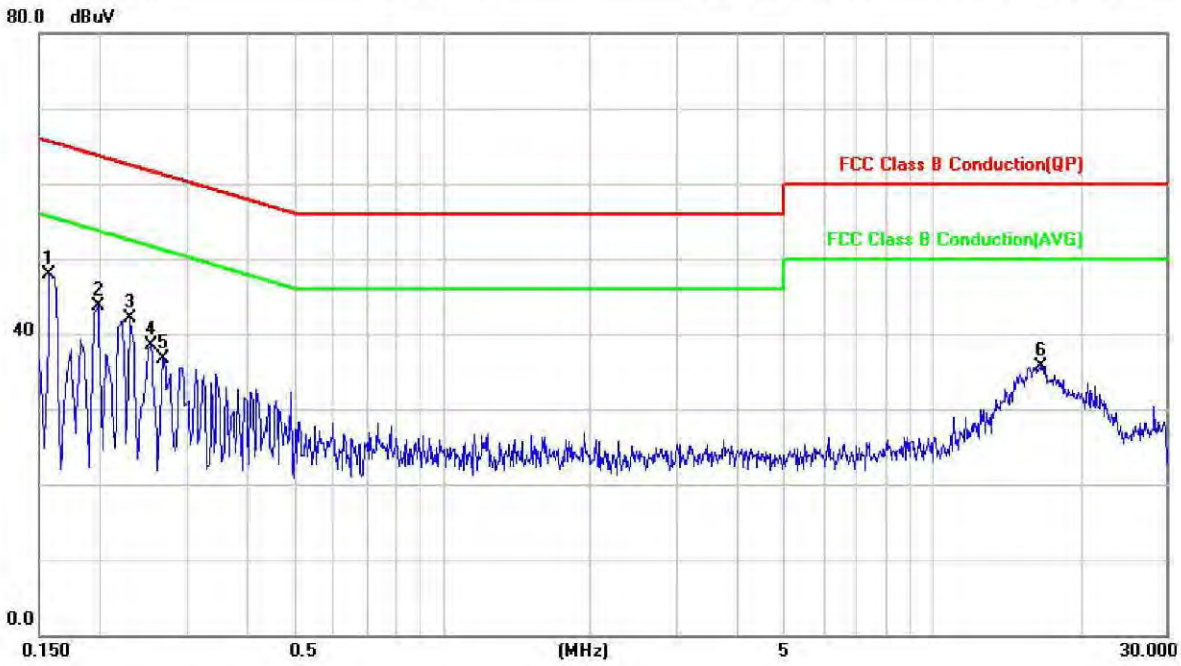
Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode:
Note:

Phase: L1
Power: AC 120V/60Hz

Temperature: 25 ℃
Humidity: 56 %

Conducted Emission

File :Condution Data :#564 Date: 2016/10/18 Time: 下午 09:04:20



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1580	28.16	19.72	47.88	65.57	-17.69	peak	
2		0.1980	24.06	19.71	43.77	63.69	-19.92	peak	
3		0.2300	22.34	19.73	42.07	62.45	-20.38	peak	
4		0.2540	18.73	19.75	38.48	61.63	-23.15	peak	
5		0.2700	16.98	19.76	36.74	61.12	-24.38	peak	
6		16.6460	15.43	20.37	35.80	60.00	-24.20	peak	

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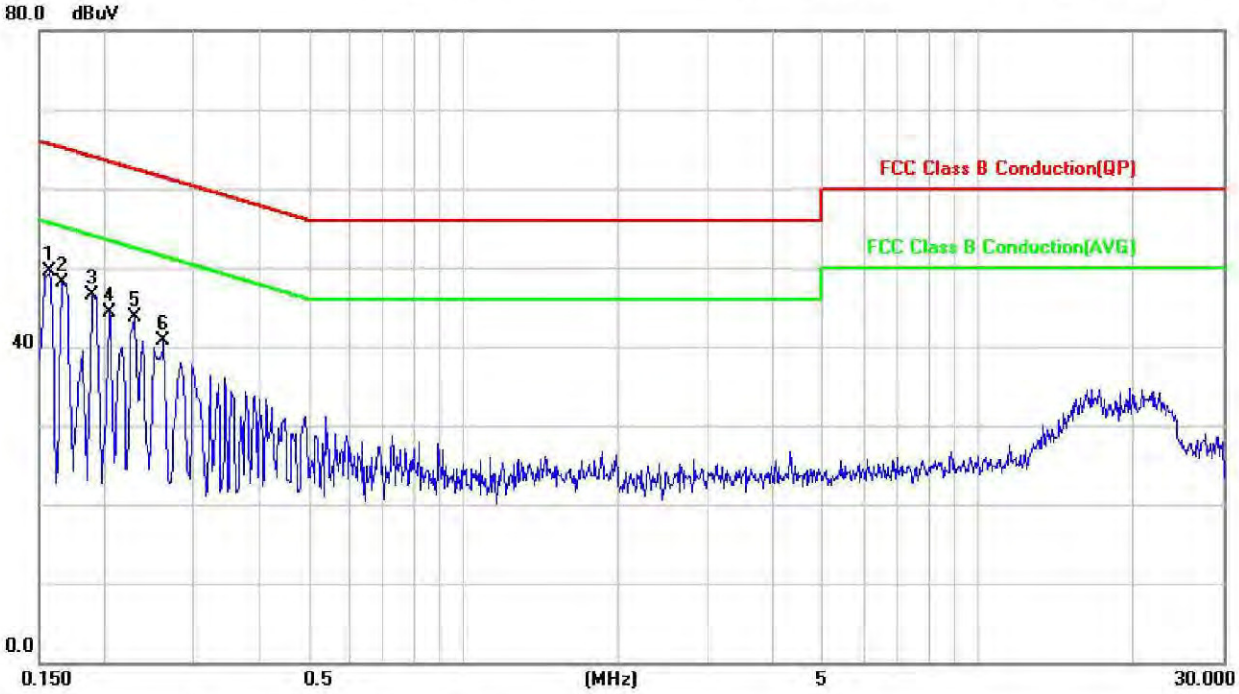
Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode:
Note:

Phase: N
Power: AC 120V/60Hz

Temperature: 25 ℃
Humidity: 56 %

Conducted Emission

File :Condution Data :#563 Date: 2016/10/18 Time: 下午 09:03:16



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1580	29.72	19.73	49.45	65.57	-16.12	peak	
2		0.1660	28.31	19.73	48.04	65.16	-17.12	peak	
3		0.1900	26.87	19.72	46.59	64.04	-17.45	peak	
4		0.2060	24.61	19.72	44.33	63.37	-19.04	peak	
5		0.2300	23.93	19.74	43.67	62.45	-18.78	peak	
6		0.2620	20.99	19.76	40.75	61.37	-20.62	peak	

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Operation Mode:	operation mode with WPC	Test By:	Vito
Model No.:	NSS050200BU		

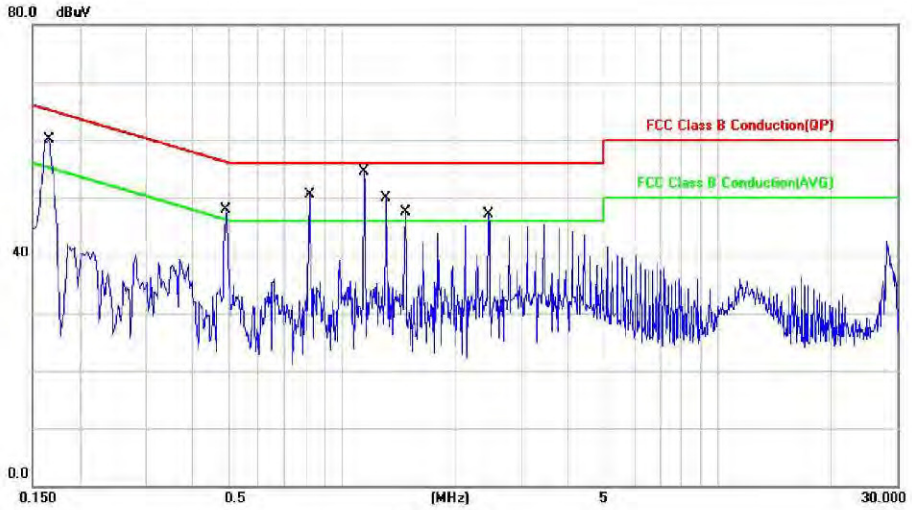
Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: WPC
Note:

Phase: L1
Power: AC 120V/60Hz

Temperature: 23 ℃
Humidity: 60 %

Conducted Emission

File :Condution Data :#470 Date: 2016/11/4 Time: 上午 10:09:39



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1660	39.40	19.72	59.12	65.16	-6.04	QP	
2		0.1660	34.40	19.72	54.12	55.16	-1.04	AVG	
3		0.4900	26.70	19.89	46.59	56.17	-9.58	QP	
4		0.4900	23.40	19.89	43.29	46.17	-2.88	AVG	
5		0.8180	29.10	19.91	49.01	56.00	-6.99	QP	
6	*	0.8180	25.20	19.91	45.11	46.00	-0.89	AVG	
7		1.1460	30.40	19.91	50.31	56.00	-5.69	QP	
8		1.1460	20.50	19.91	40.41	46.00	-5.59	AVG	
9		1.3100	22.70	19.92	42.62	56.00	-13.38	QP	
10		1.3100	16.60	19.92	36.52	46.00	-9.48	AVG	
11		1.4740	27.10	19.92	47.02	56.00	-8.98	QP	
12		1.4740	23.50	19.92	43.42	46.00	-2.58	AVG	
13		2.4580	26.50	19.94	46.44	56.00	-9.56	QP	

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
14		2.4580	22.80	19.94	42.74	46.00	-3.26	AVG	

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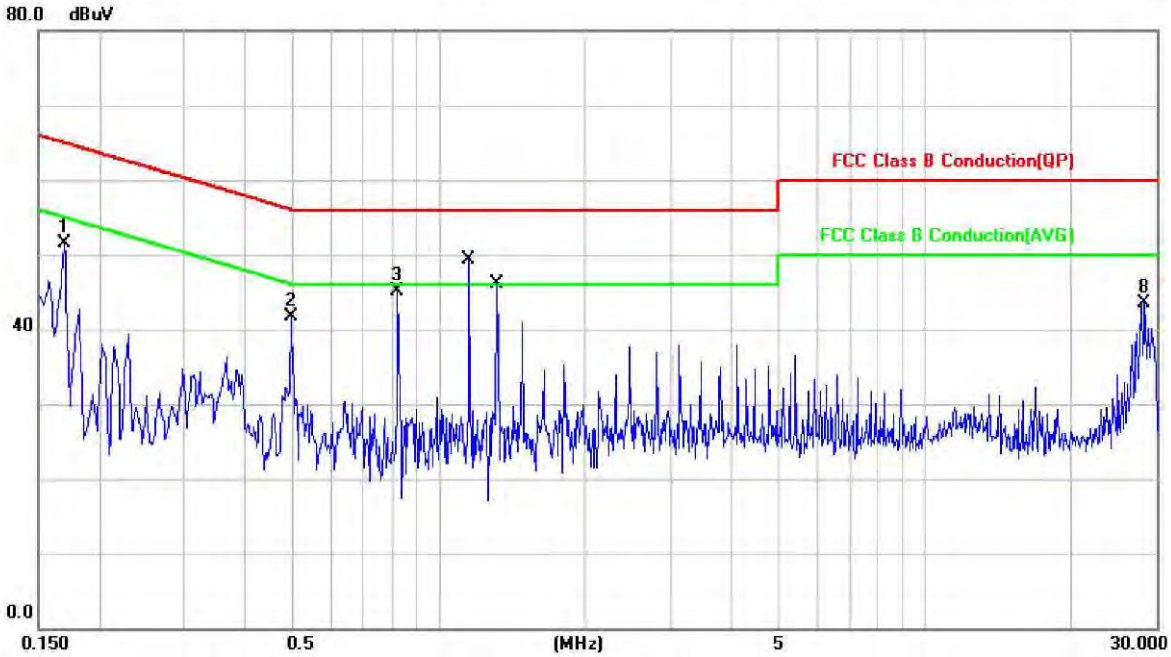
Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: WPC
Note:

Phase: N
Power: AC 120V/60Hz

Temperature: 23 ℃
Humidity: 60 %

Conducted Emission

File :Condution Data :#471 Date: 2016/11/4 Time: 上午 10:15:38



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1700	31.76	19.73	51.49	64.96	-13.47	peak	
2		0.4980	21.78	19.91	41.69	56.03	-14.34	peak	
3		0.8260	25.25	19.92	45.17	56.00	-10.83	peak	
4		1.1580	28.70	19.92	48.62	56.00	-7.38	QP	
5	*	1.1580	22.20	19.92	42.12	46.00	-3.88	AVG	
6		1.3220	23.10	19.93	43.03	56.00	-12.97	QP	
7		1.3220	17.80	19.93	37.73	46.00	-8.27	AVG	
8		28.4260	22.51	20.95	43.46	60.00	-16.54	peak	

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7 DUTY CYCLE OF TEST SIGNAL

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

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

Formula:

Duty Cycle = Ton / (Ton+Toff)

Measurement Procedure:

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

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)
802.11b	97.74	0.10
802.11g	87.24	0.59
802.11n_20	86.64	0.62
802.11n_40	76.24	1.18

b = 97.74%, g = 87.24%,n_ht_20 = 86.64%, n_ht40 = 76.24%

Duty Cycle Factor: 10 * log(1/0.9774) = 0.1
Duty Cycle Factor: 10 * log(1/0.8724) = 0.59
Duty Cycle Factor: 10 * log(1/0.8664) = 0.62
Duty Cycle Factor: 10 * log(1/0.7624) = 1.18

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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

802.11 b

802.11 g

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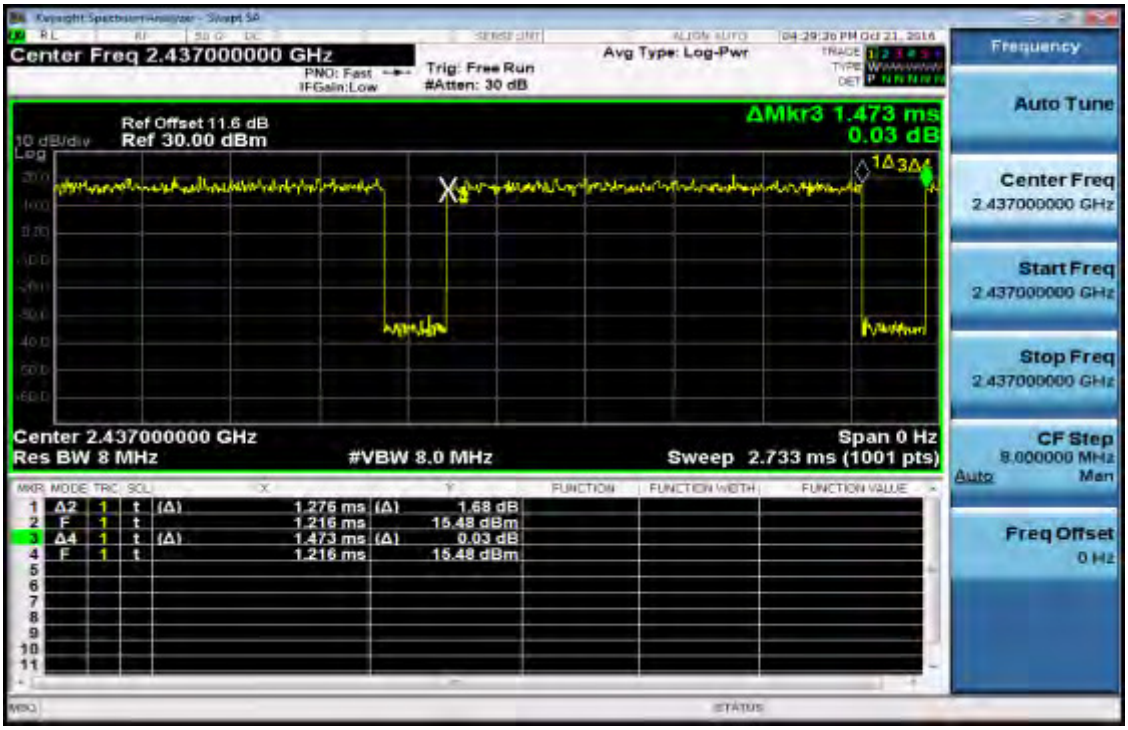
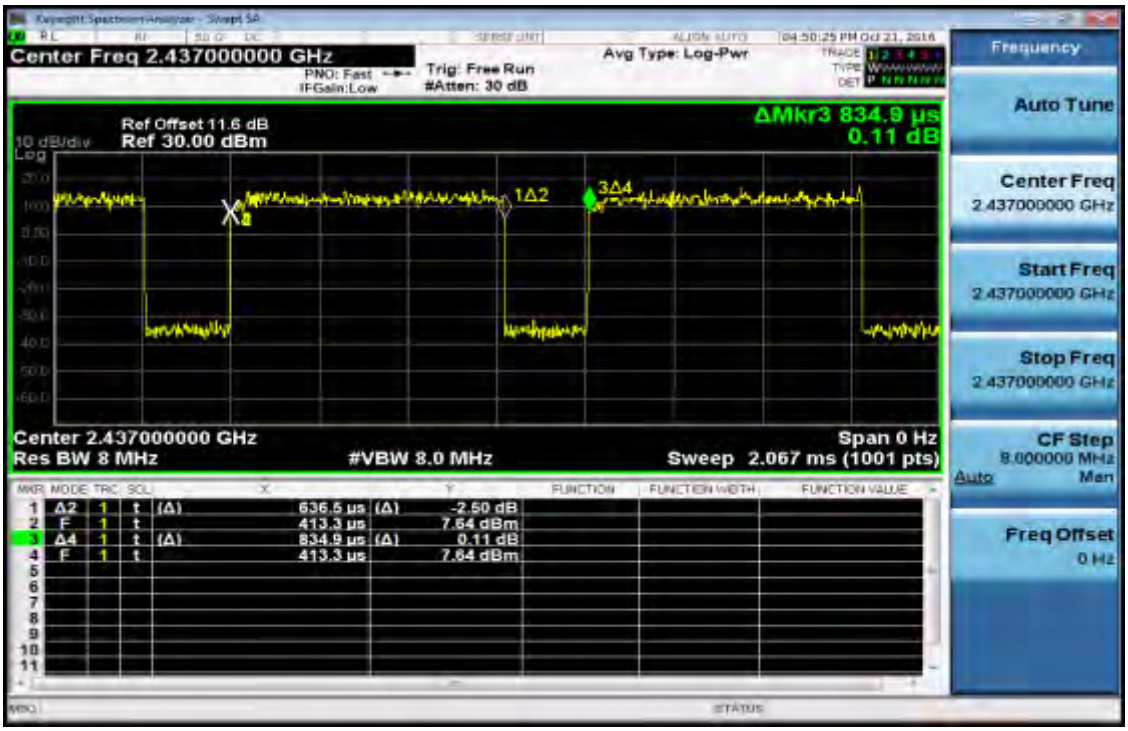
802.11 n_20 MHz



802.11 n_40 MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

Per RSS-247

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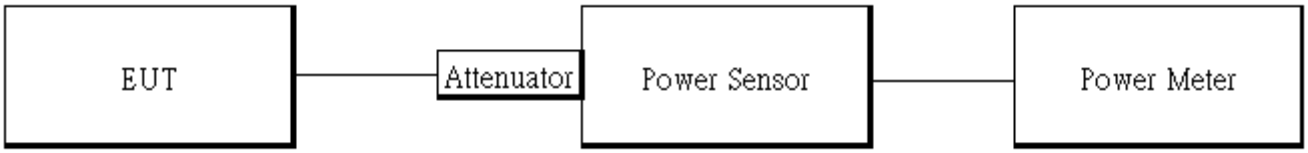
8.2 Measurement Equipment Used

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	12/12/2015	12/11/2016
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

   Power Meter:

   It is used as the auxiliary test equipment to conduct the output power measurement.
4. Record the max. Reading as observed from Spectrum or Power Meter.

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8.5 Measurement Result

802.11b Main								
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit			RESULT
1	2412	1	18.53	71.29	1 Watt =	30.00	dBm	PASS
6	2437	1	18.56	71.78	1 Watt =	30.00	dBm	PASS
11	2462	1	**18.97**	**78.89**	1 Watt =	30.00	dBm	PASS
802.11b Main								
CH	Frequency (MHz)	Data Rate	Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit			RESULT
1	2412	1	15.66	36.81	1 Watt =	30.00	dBm	PASS
6	2437	1	15.69	37.07	1 Watt =	30.00	dBm	PASS
11	2462	1	**15.95**	**39.36**	1 Watt =	30.00	dBm	PASS

802.11g Main								
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit			RESULT
1	2412	6	24.62	289.73	1 Watt =	30.00	dBm	PASS
6	2437	6	**25.06**	**320.63**	1 Watt =	30.00	dBm	PASS
11	2462	6	24.54	284.45	1 Watt =	30.00	dBm	PASS
802.11g Main								
CH	Frequency (MHz)	Data Rate	Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit			RESULT
1	2412	6	15.78	37.84	1 Watt =	30.00	dBm	PASS
6	2437	6	**15.98**	**39.63**	1 Watt =	30.00	dBm	PASS
11	2462	6	15.87	38.64	1 Watt =	30.00	dBm	PASS

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802.11n_HT20M Main								
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit			RESULT
1	2412	MCS0	24.08	255.86	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	**24.19**	**262.42**	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	23.88	244.34	1 Watt =	30.00	dBm	PASS
802.11n_HT20M Main								
CH	Frequency (MHz)	Data Rate	Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit			RESULT
1	2412	MCS0	13.82	24.10	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	**13.97**	**24.95**	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	13.81	24.04	1 Watt =	30.00	dBm	PASS

802.11n_HT40M Main								
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit			RESULT
3	2422	MCS0	24.15	260.02	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	**24.18**	**261.82**	1 Watt =	30.00	dBm	PASS
9	2452	MCS0	23.96	248.89	1 Watt =	30.00	dBm	PASS
802.11n_HT40M Main								
CH	Frequency (MHz)	Data Rate	Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit			RESULT
3	2422	MCS0	12.97	19.82	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	**12.99**	**19.91**	1 Watt =	30.00	dBm	PASS
9	2452	MCS0	12.83	19.19	1 Watt =	30.00	dBm	PASS

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

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9 6DB BANDWIDTH MEASUREMENT

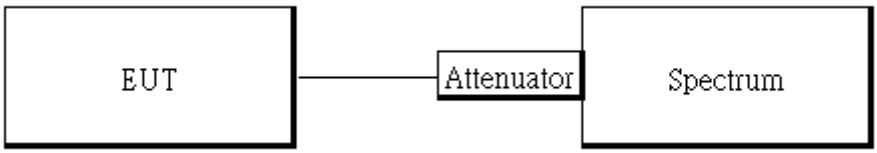
9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 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
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

9.3 Test Set-up



9.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. For 6dB Bandwidth:

   Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=peak, Sweep=auto.
5. Mark the peak frequency and –6dB (upper and lower) frequency.

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9.5 Measurement Result

6dB Bandwidth

802.11b Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	8115	> 500	PASS
2437	8105	> 500	PASS
2462	**9006**	> 500	PASS

802.11g Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	16380	> 500	PASS
2437	**16430**	> 500	PASS
2462	16400	> 500	PASS

802.11_n_HT20 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	17590	> 500	PASS
2437	**17660**	> 500	PASS
2462	17650	> 500	PASS

802.11_n_HT40 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	35180	> 500	PASS
2437	**35200**	> 500	PASS
2452	35180	> 500	PASS

**Refer to next page for plots*

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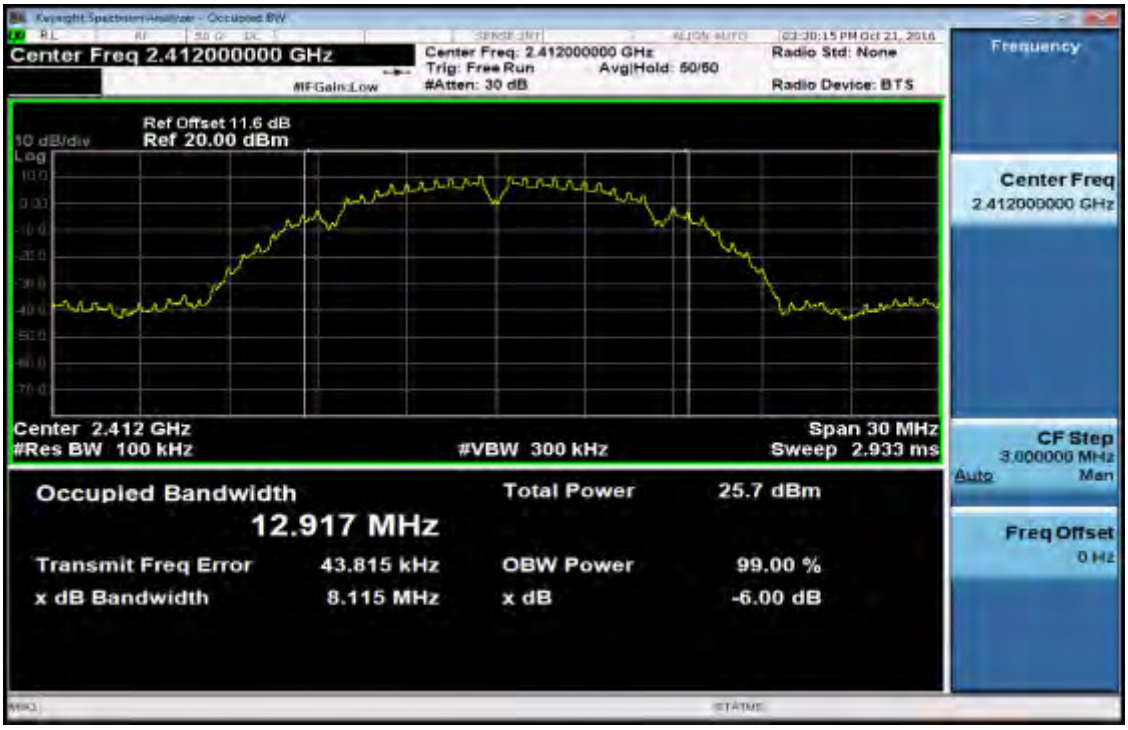
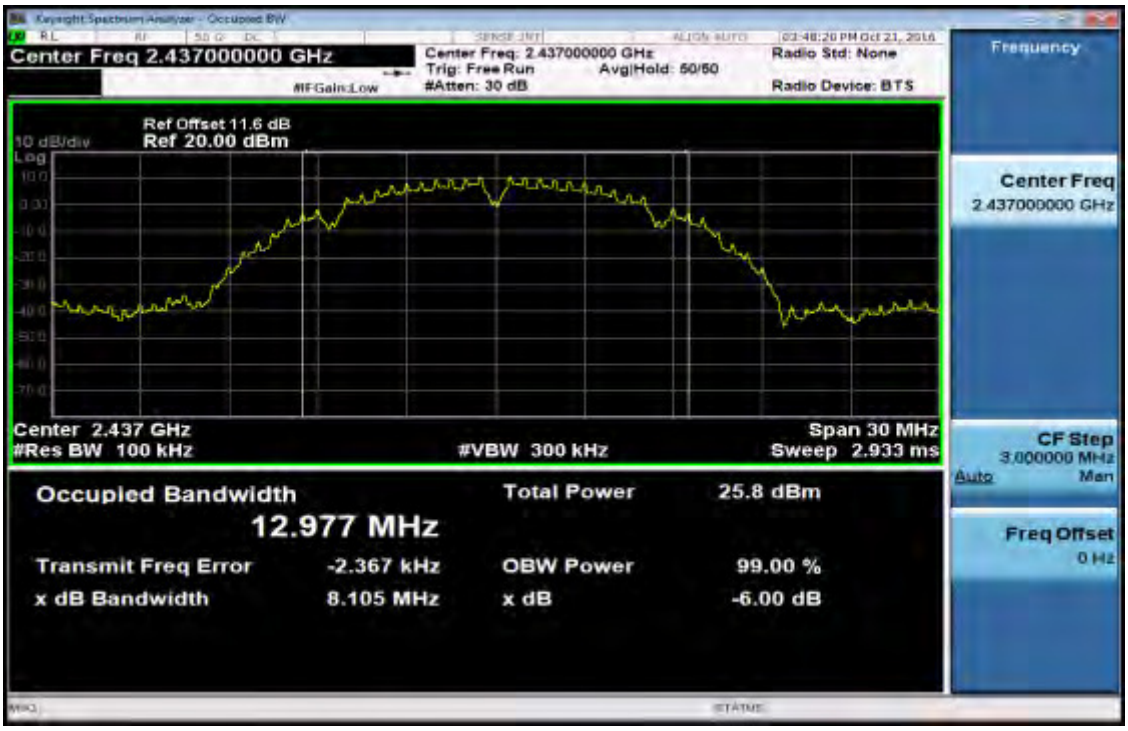
802.11b (Main)
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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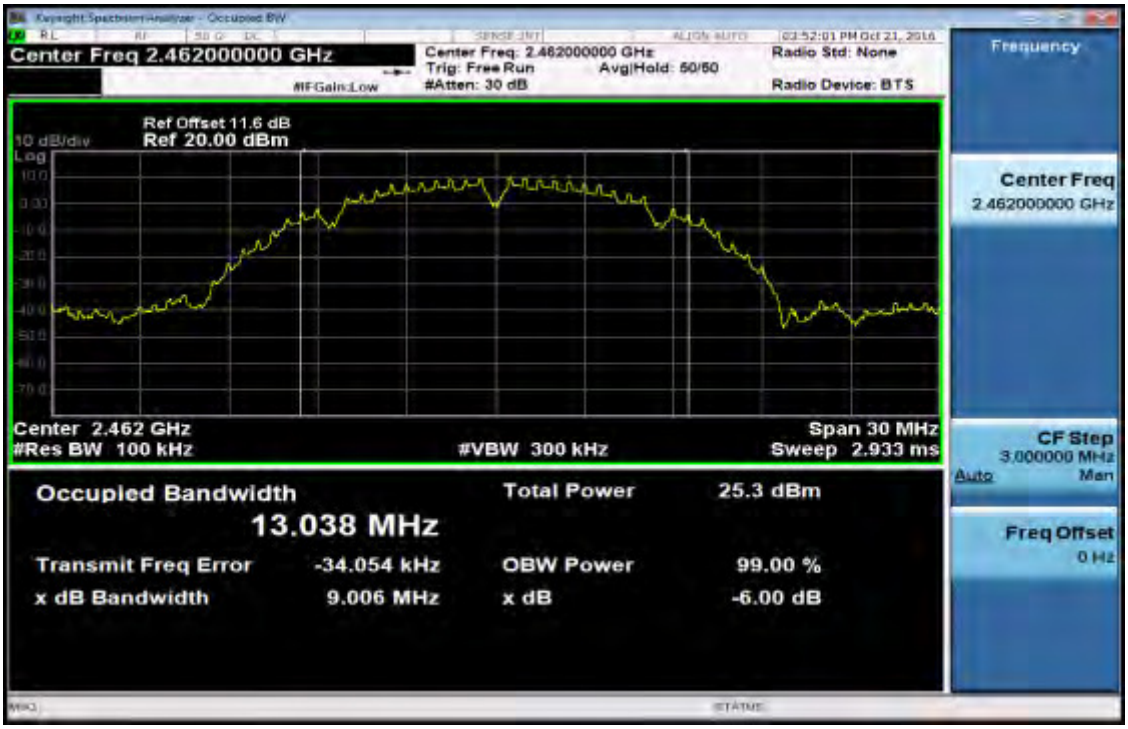
6dB Band Width Test Data CH-High



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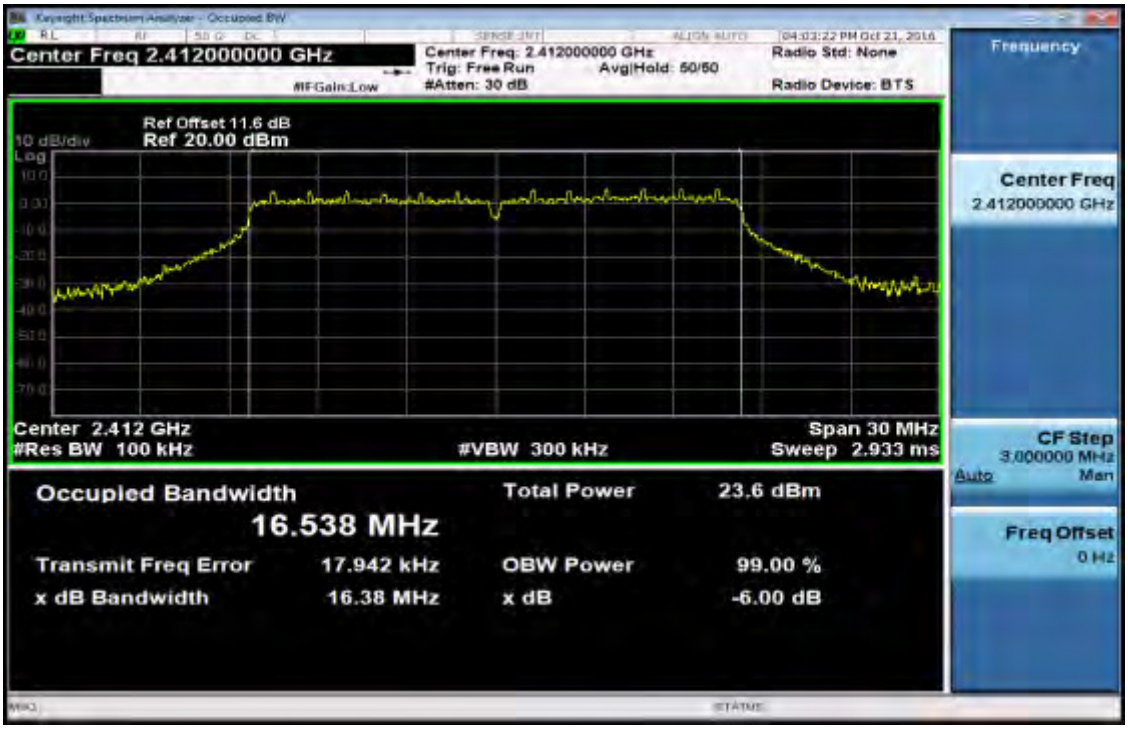
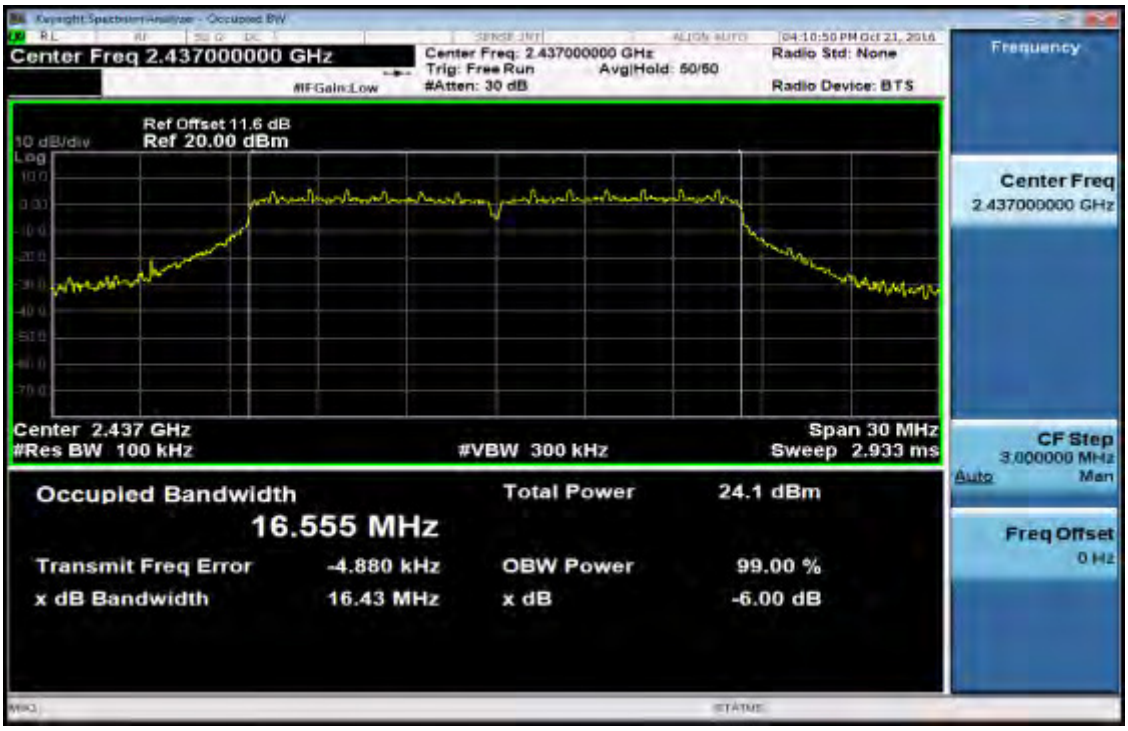
802.11g (Main)
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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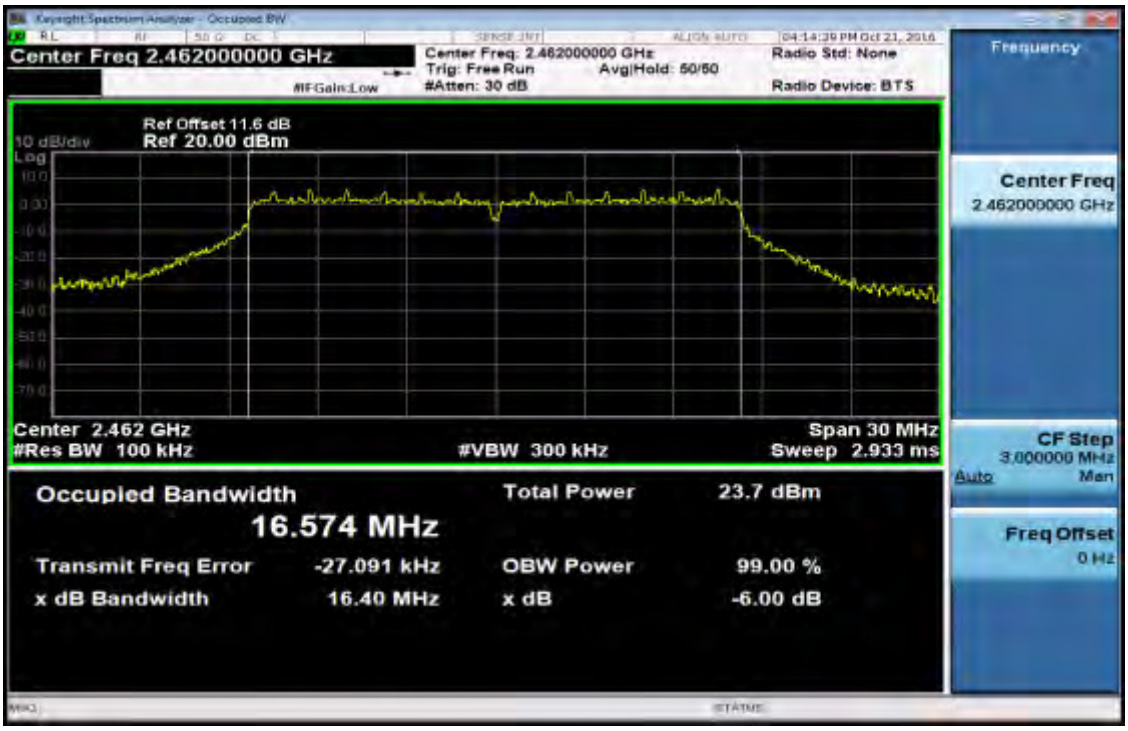
6dB Band Width Test Data CH-High



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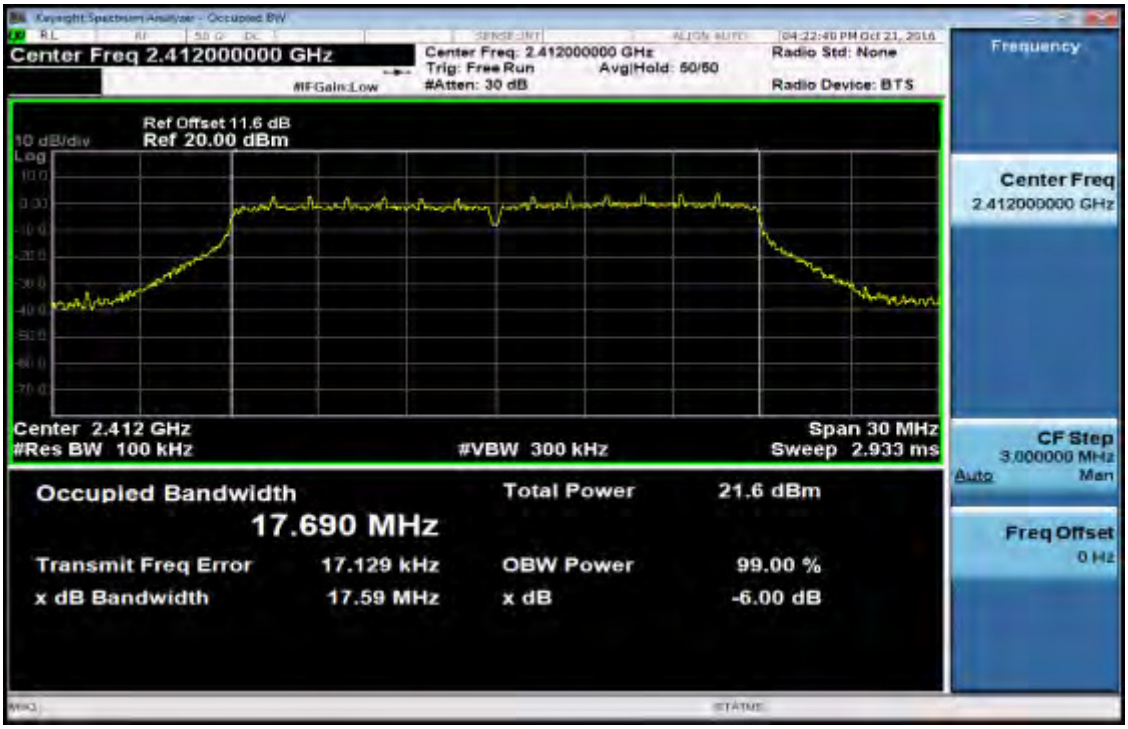
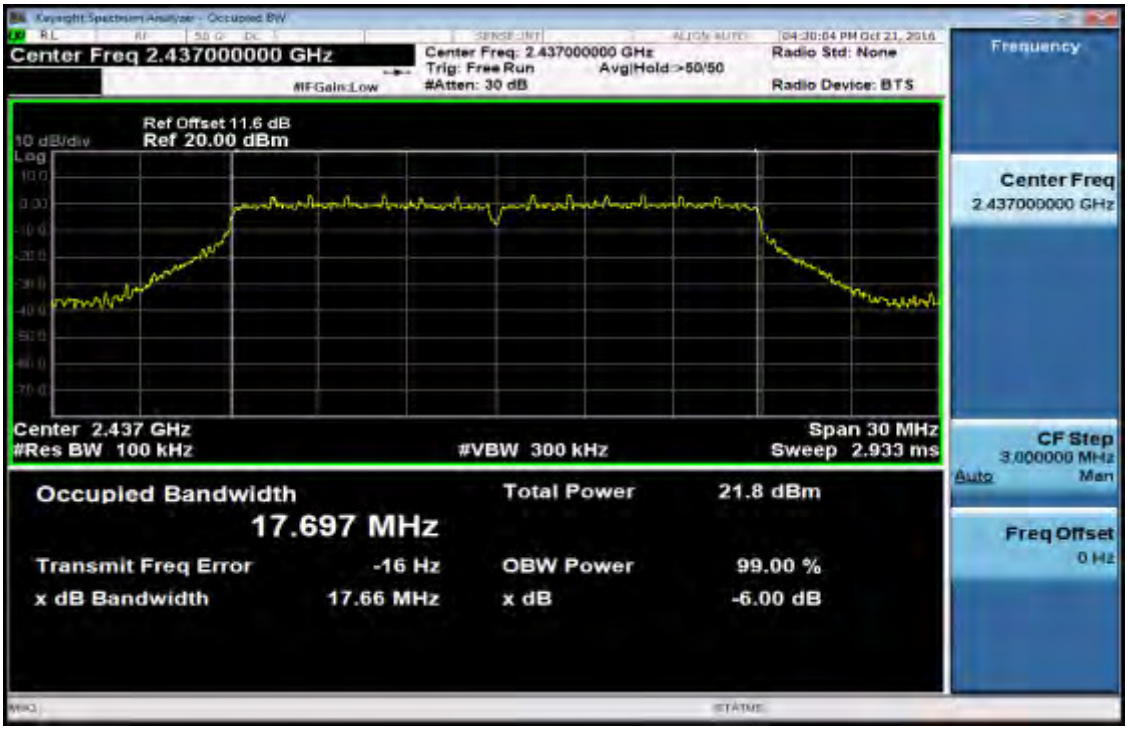
802.11n_20M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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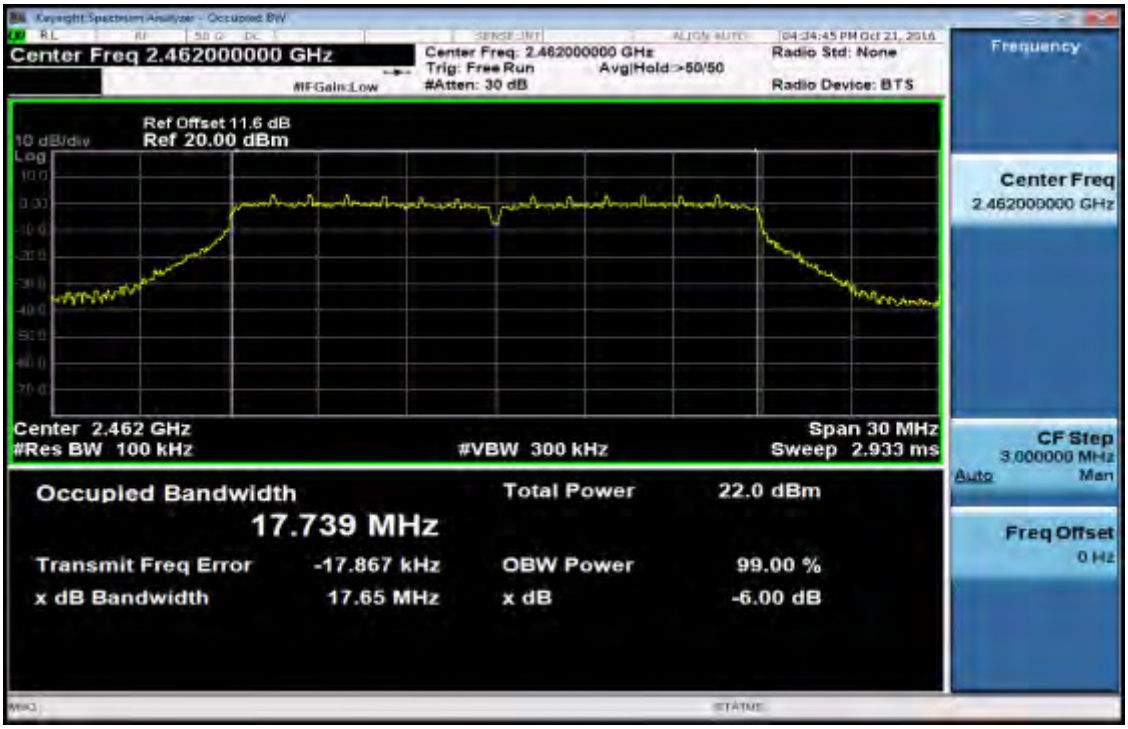
6dB Band Width Test Data CH-High



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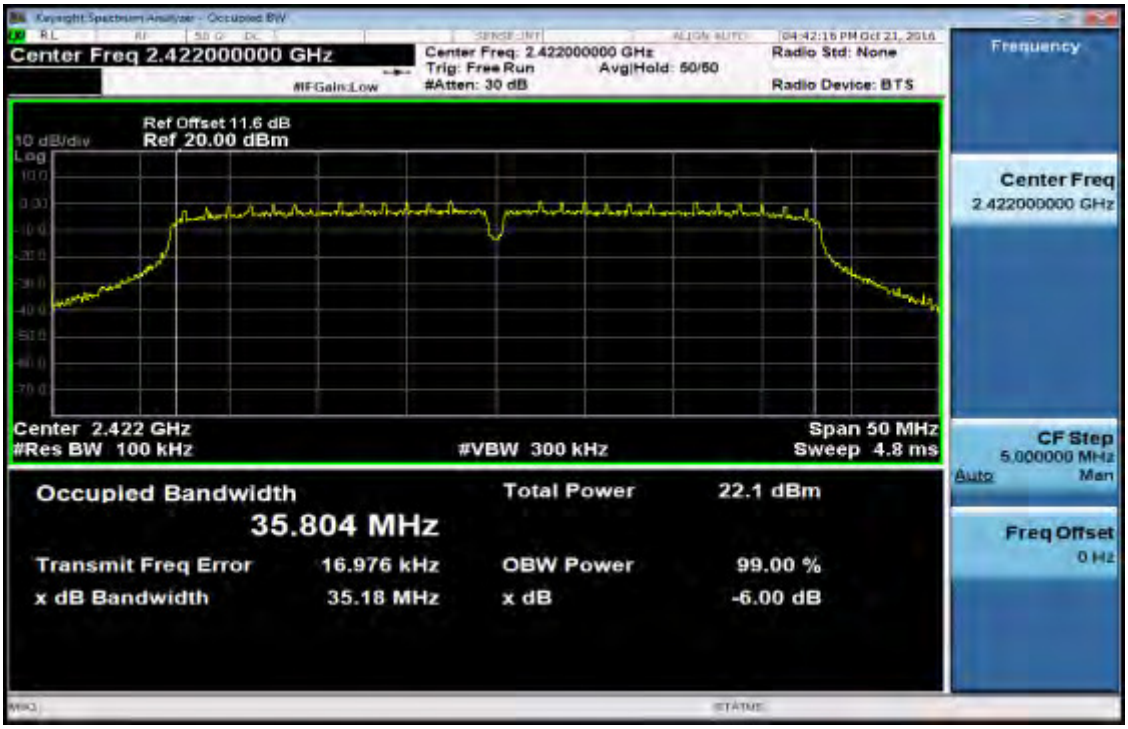
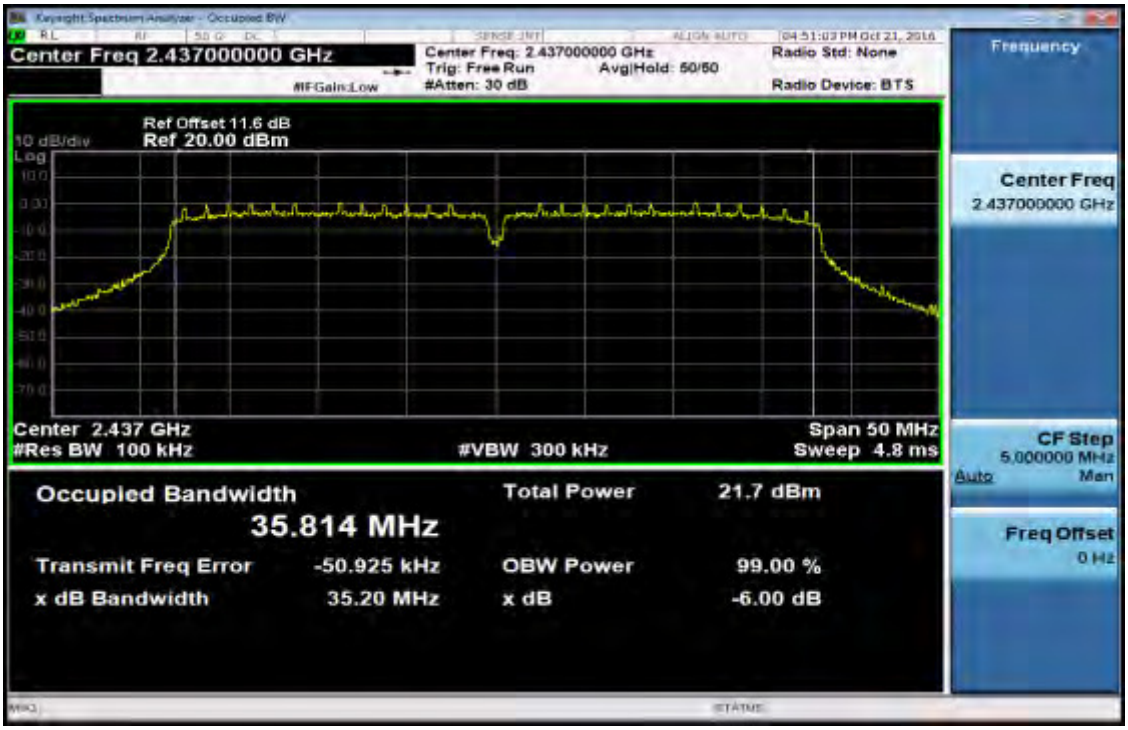
802.11n_40M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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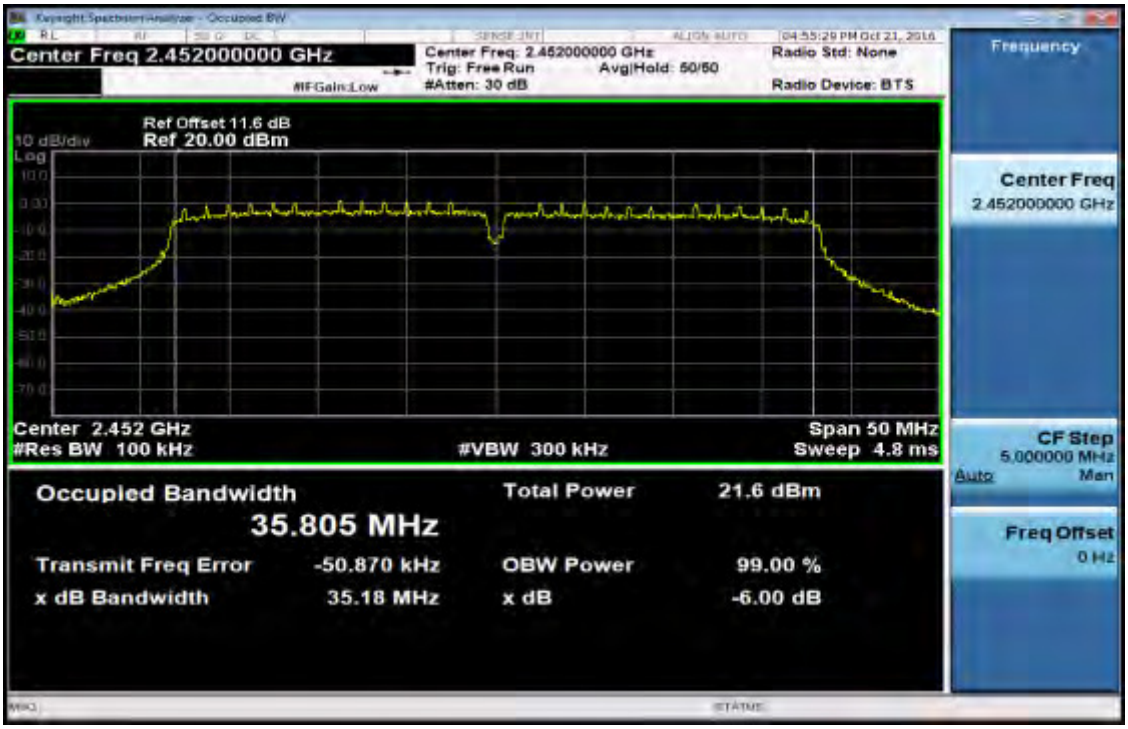
6dB Band Width Test Data CH-High



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

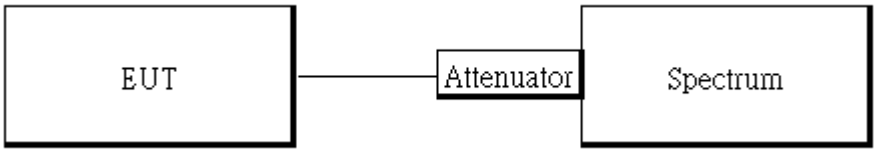
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

10.2 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
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

10.3 Test SET-UP



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10.4 Measurement Procedure

Band Edge Limit Calculation:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker 1 – 20dBm
8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

10.5 Measurement Result

Bandedge Limit 802.11b MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	10.05	-9.95
2462	9.89	-10.11

Bandedge Limit 802.11g MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	5.70	-14.30
2462	5.29	-14.71

Bandedge Limit 802.11n20 MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	3.56	-16.44
2462	3.23	-16.77

Bandedge Limit 802.11n40 MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2422	0.71	-19.29
2452	0.92	-19.08

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802.11b

Power Spectral Density for Bandedge Limit (CH-Low)

Power Spectral Density for Bandedge Limit (CH-High)

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802.11g

Power Spectral Density for Bandedge Limit (CH-Low)

Power Spectral Density for Bandedge Limit (CH-High)

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802.11n_HT20

Power Spectral Density for Bandedge Limit (CH-Low)

Power Spectral Density for Bandedge Limit (CH-High)

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802.11n_HT40

Power Spectral Density for Bandedge Limit (CH-Low)

Power Spectral Density for Bandedge Limit (CH-High)

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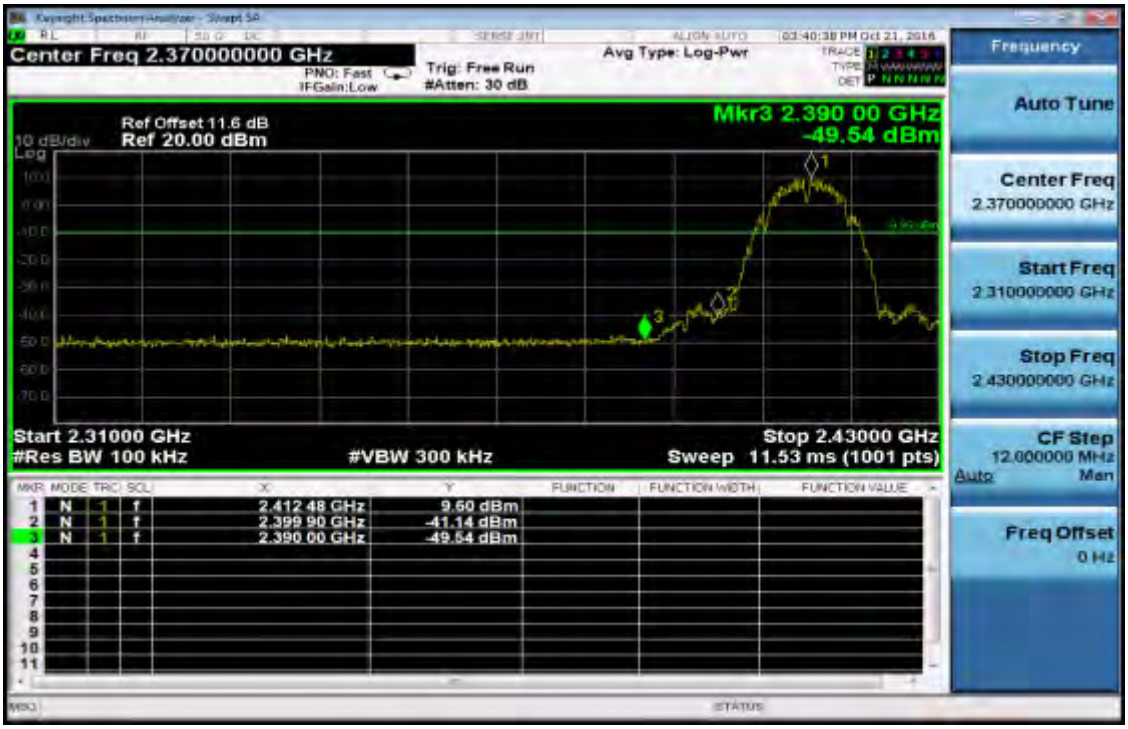
802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High

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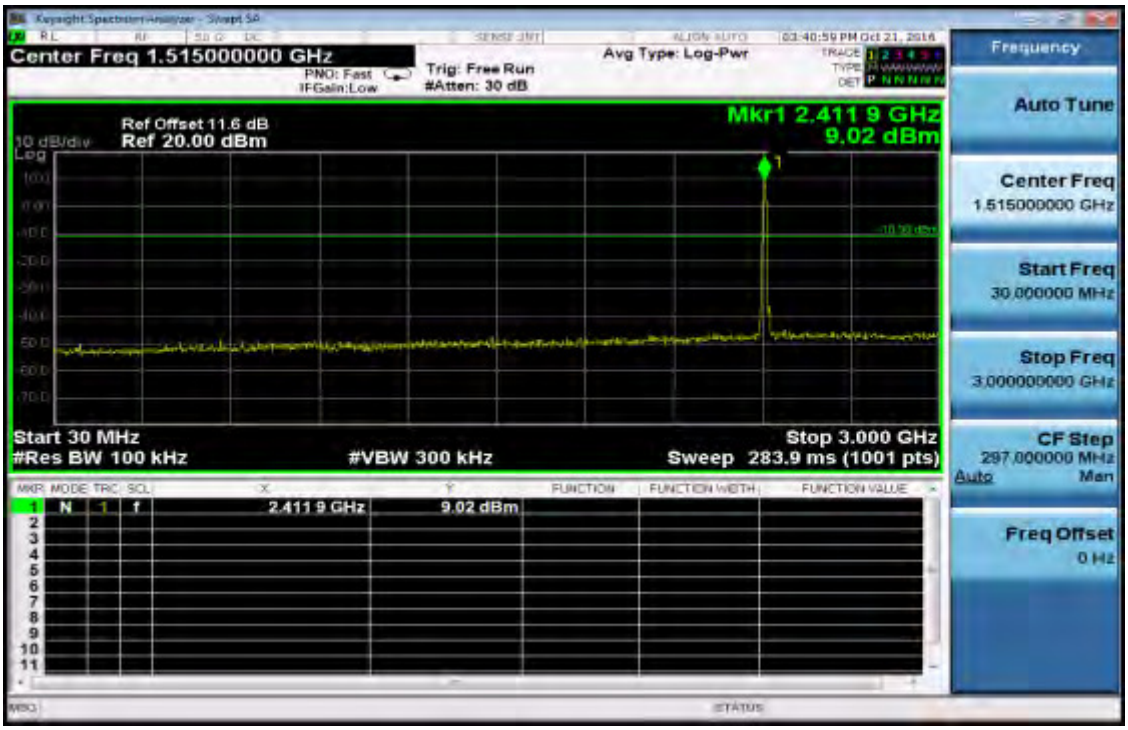
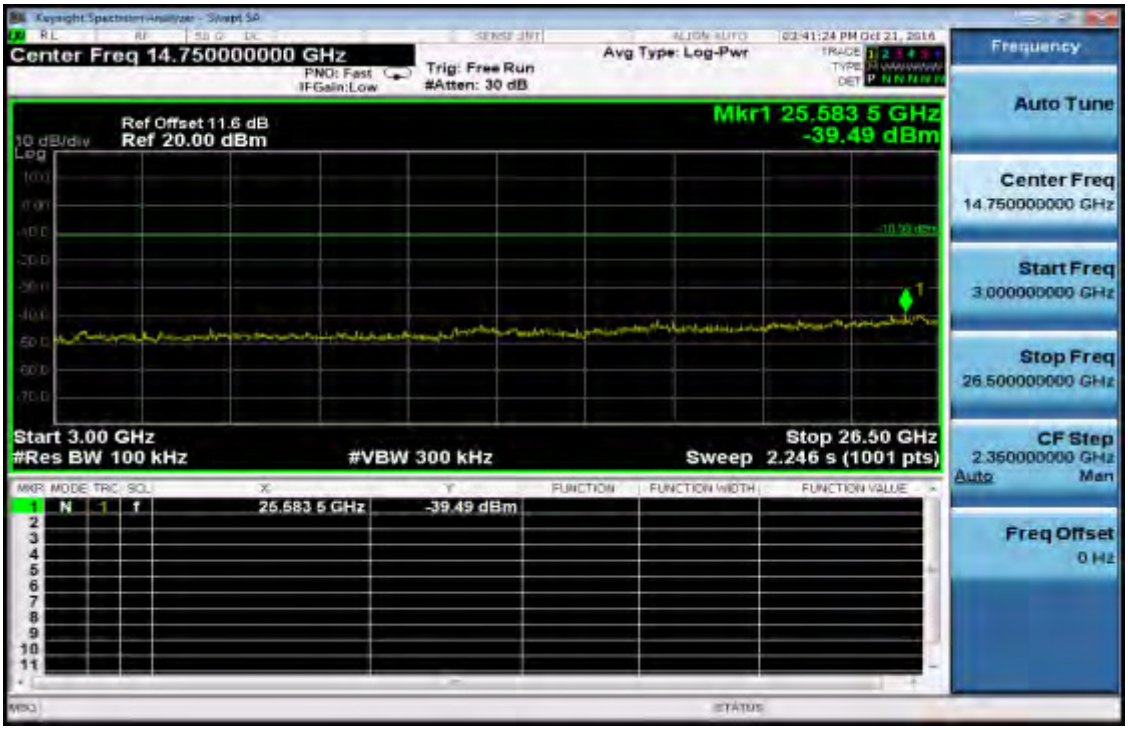
802.11b

Spurious Emission Test Data CH-Low





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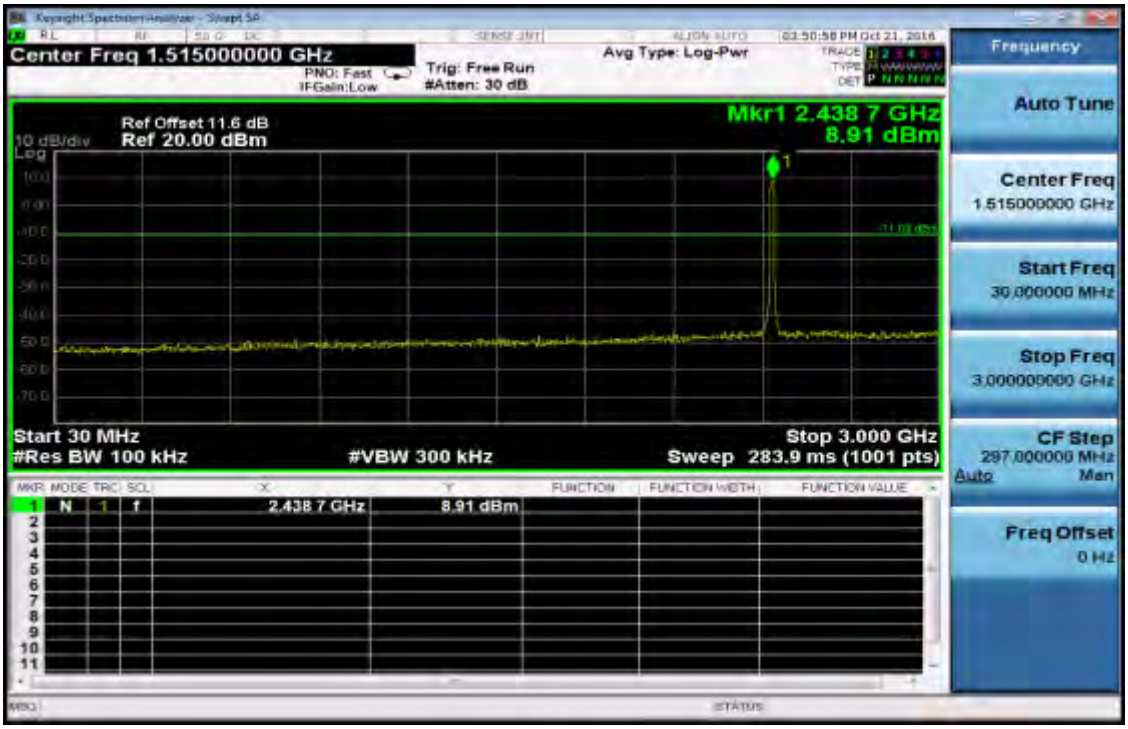
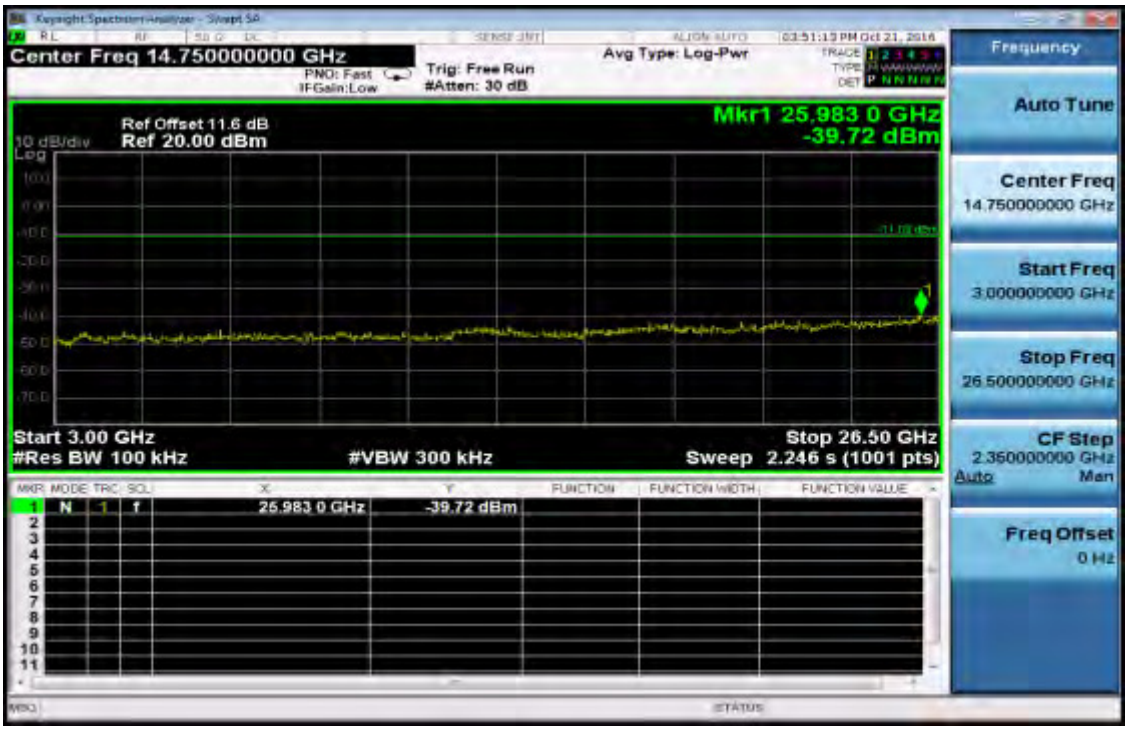
Spurious Emission Test Data CH-Mid





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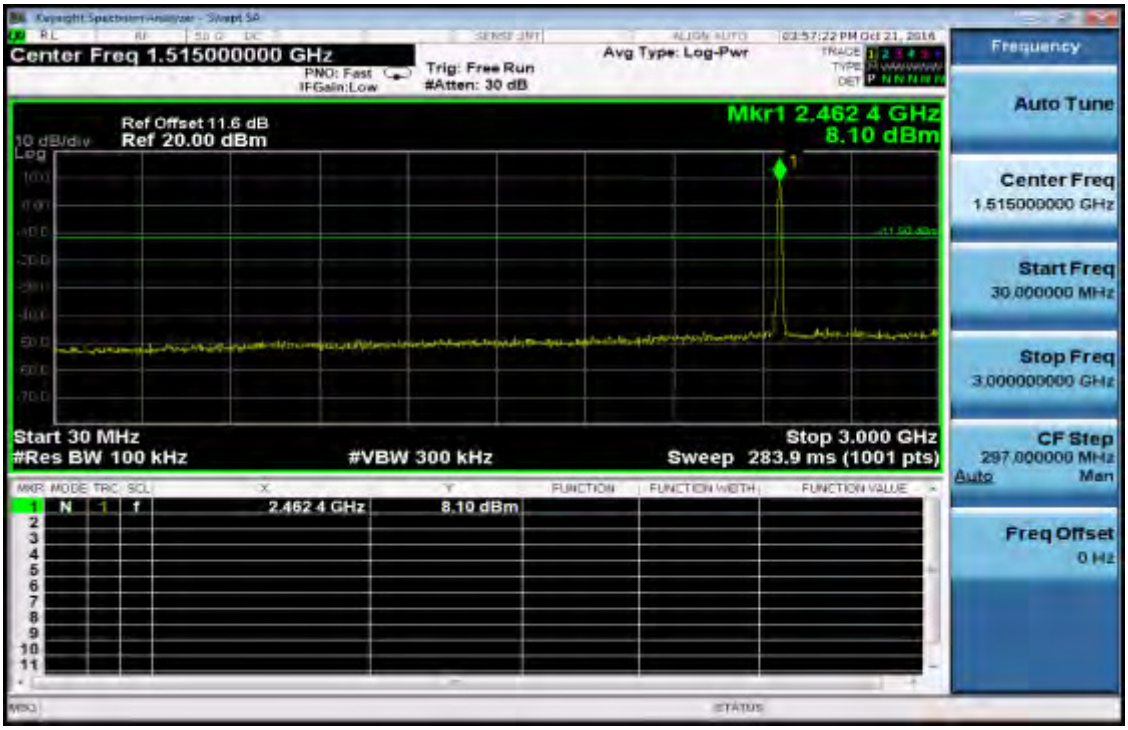
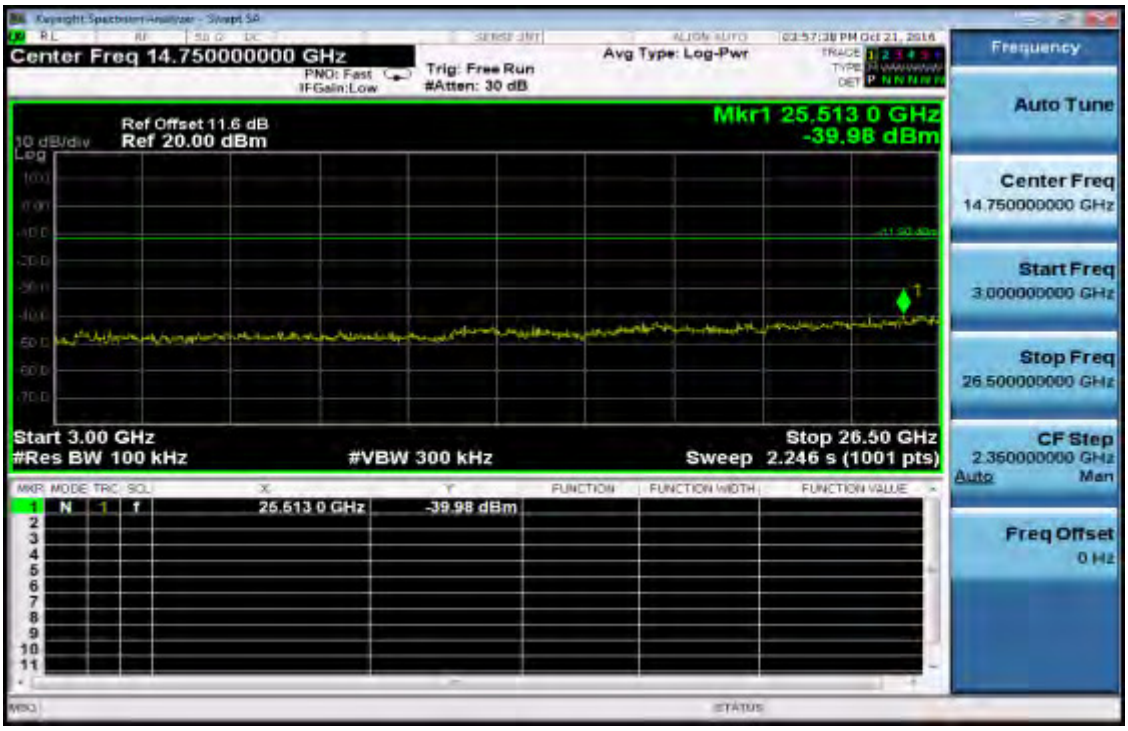
Spurious Emission Test Data CH-High





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802.11g
Band Edges Test Data CH-Low

Band Edges Test Data CH-High

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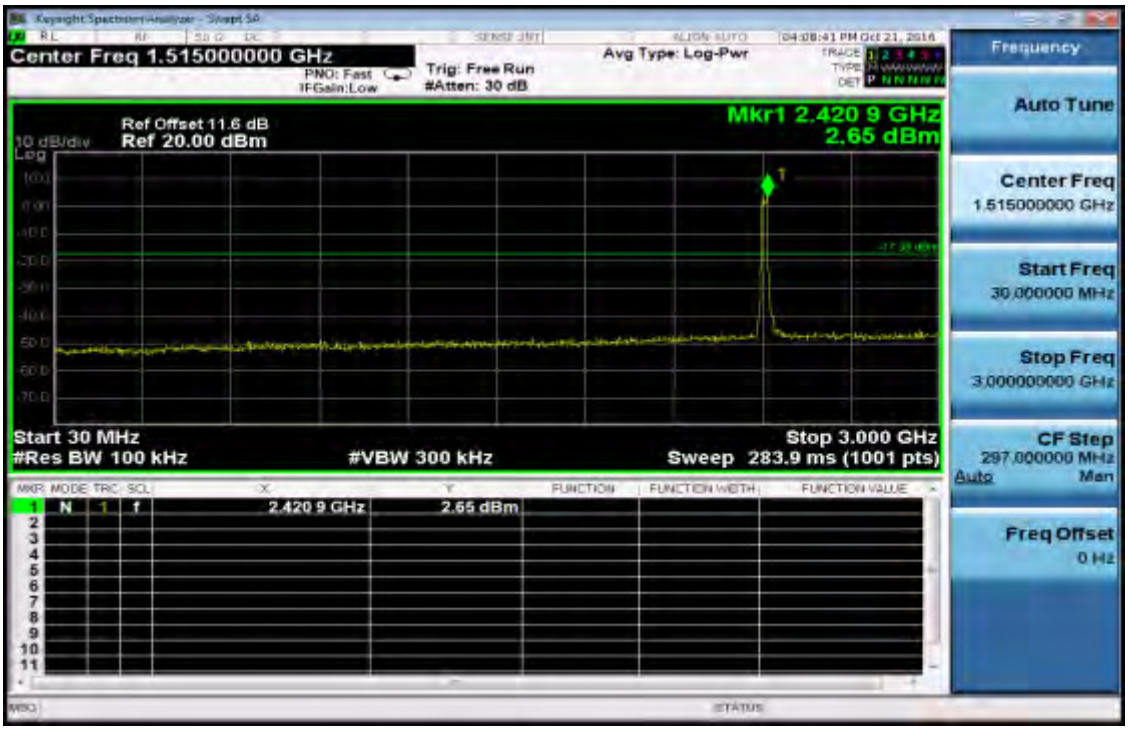
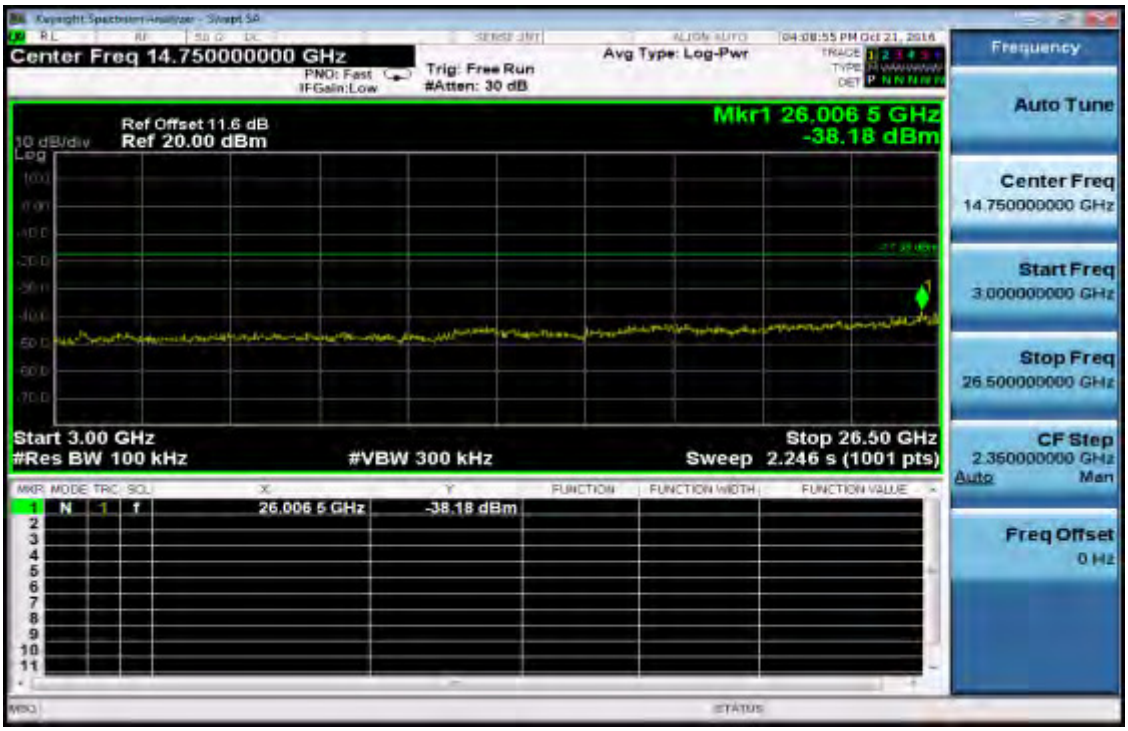
802.11g

Spurious Emission Test Data CH-Low





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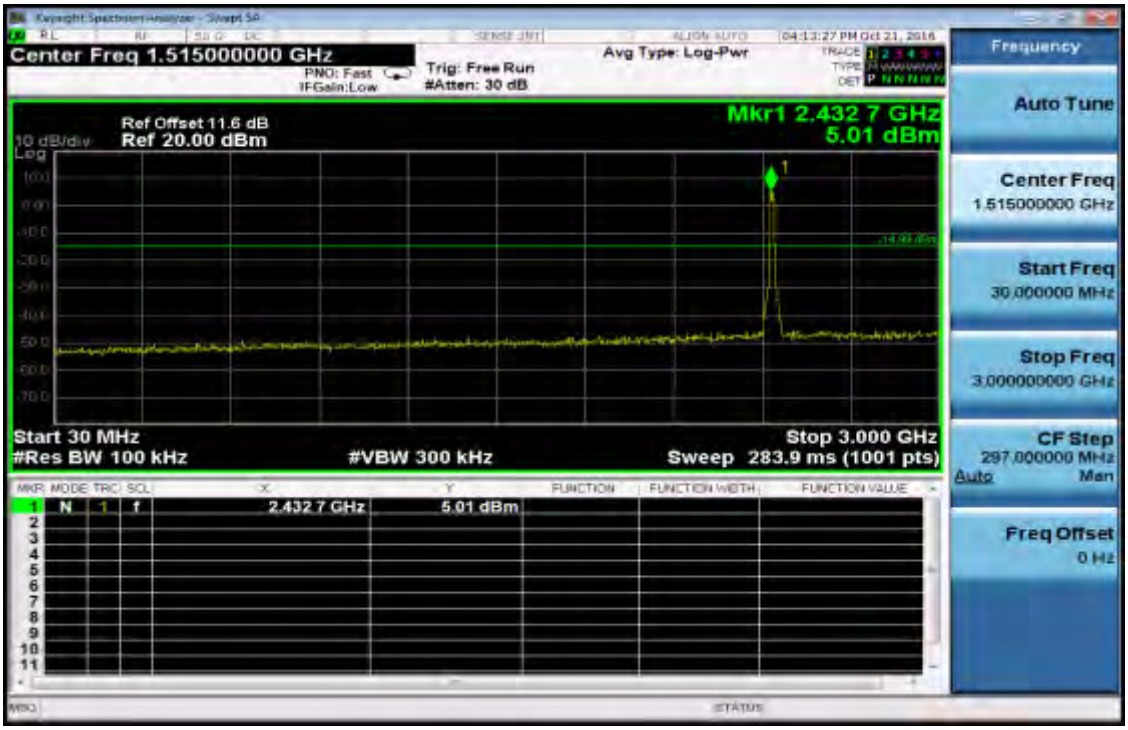
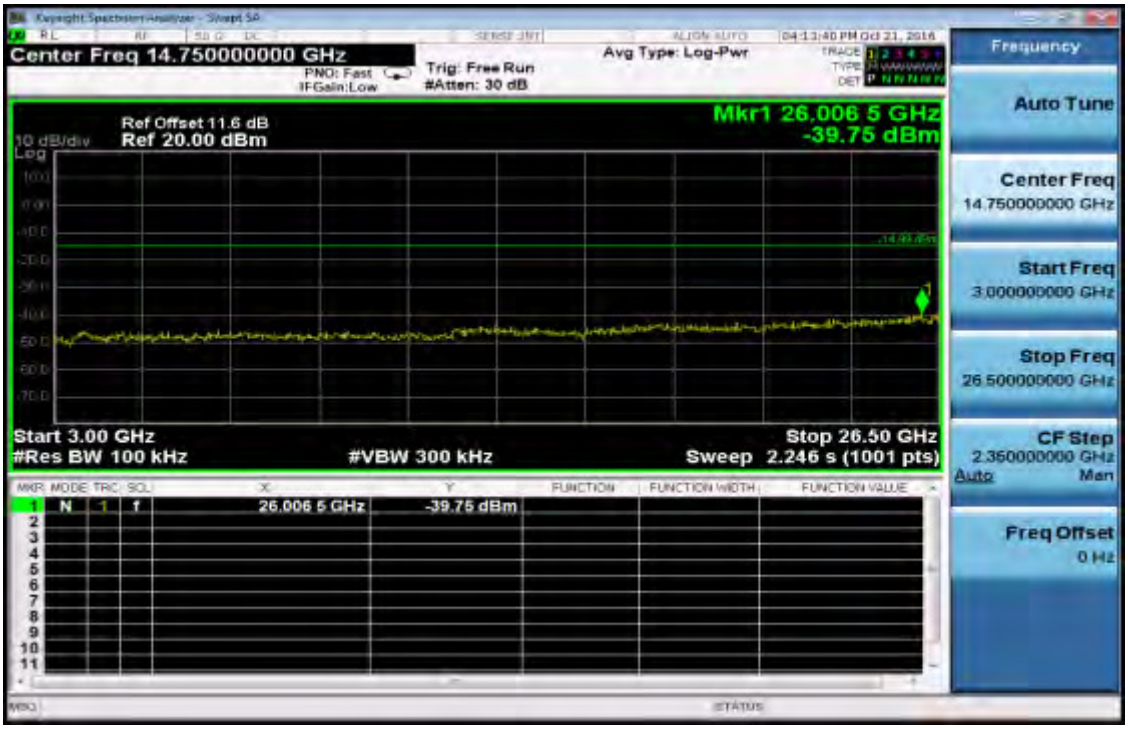
Spurious Emission Test Data CH-Mid





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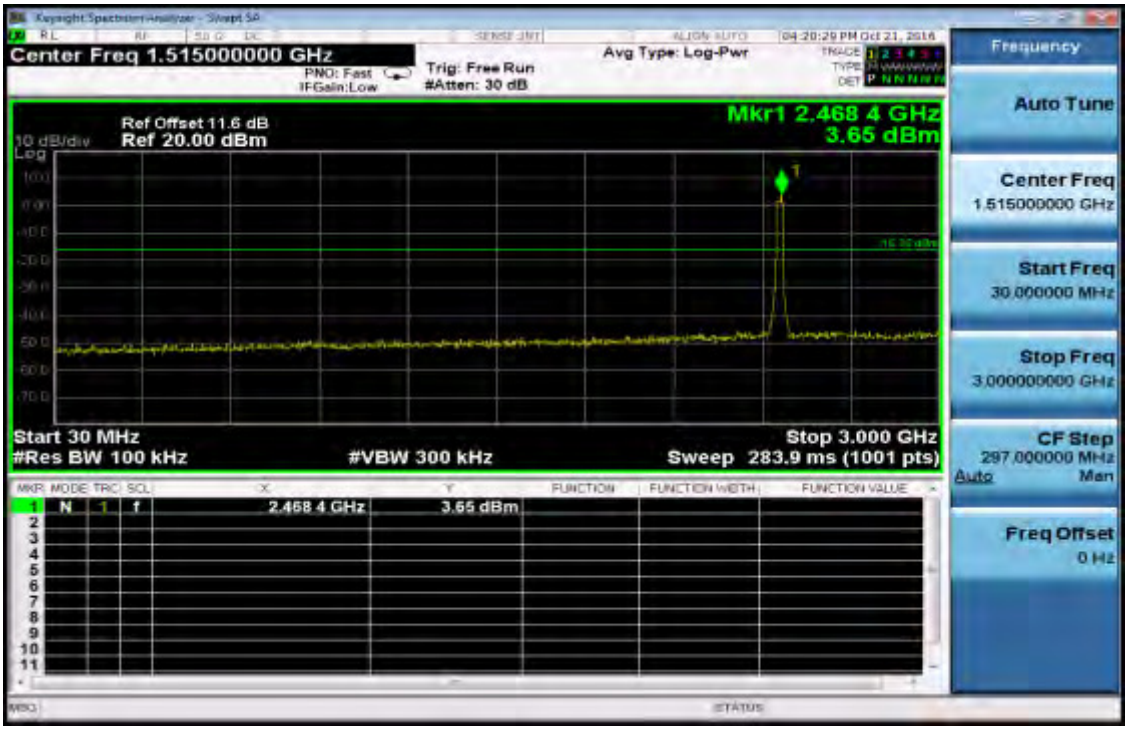
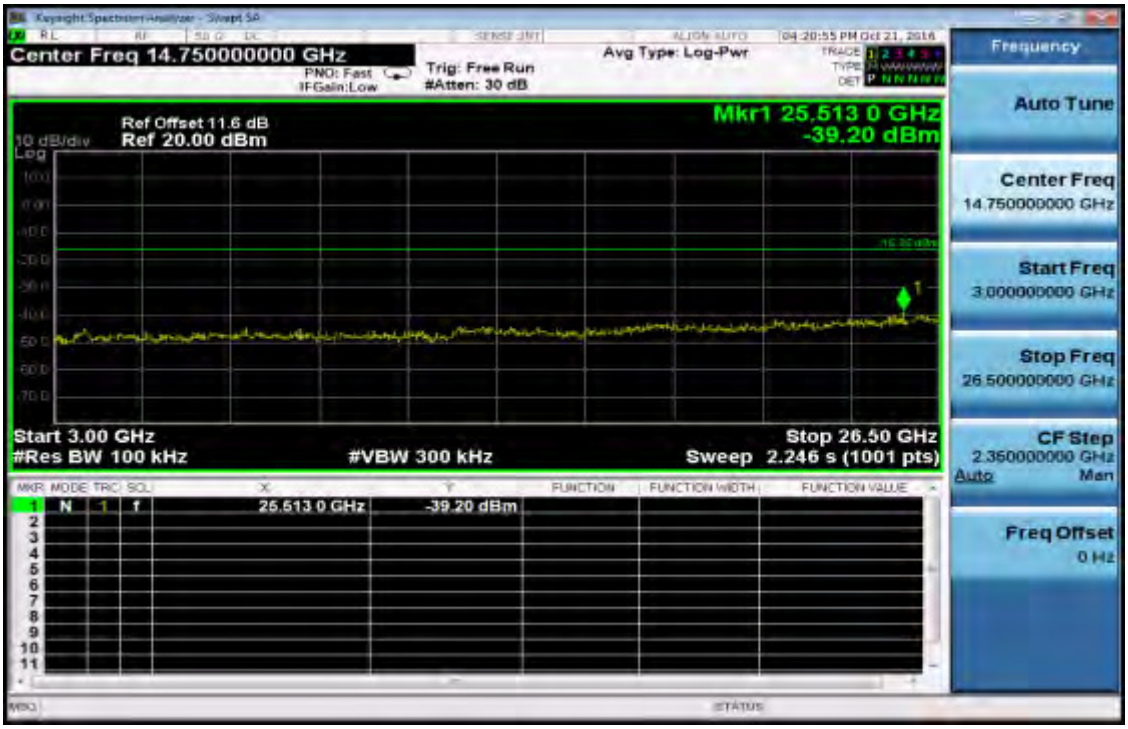
Spurious Emission Test Data CH-High





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802.11n_HT20

Band Edges Test Data CH-Low

Band Edges Test Data CH-High

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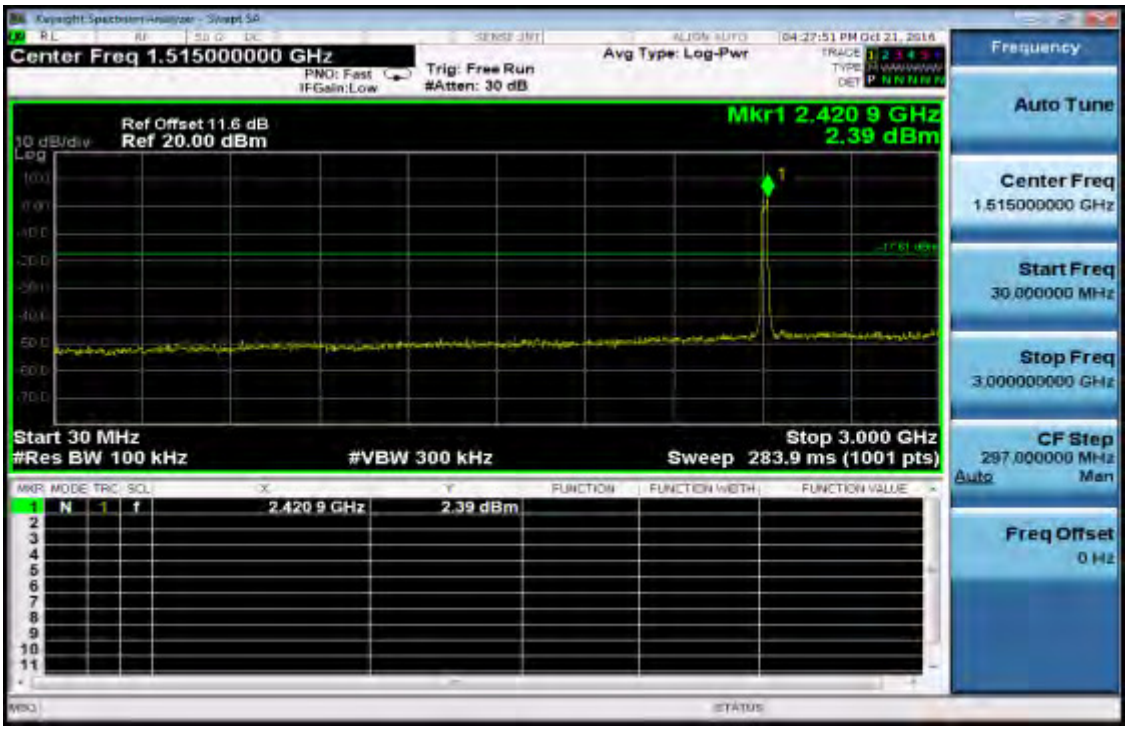
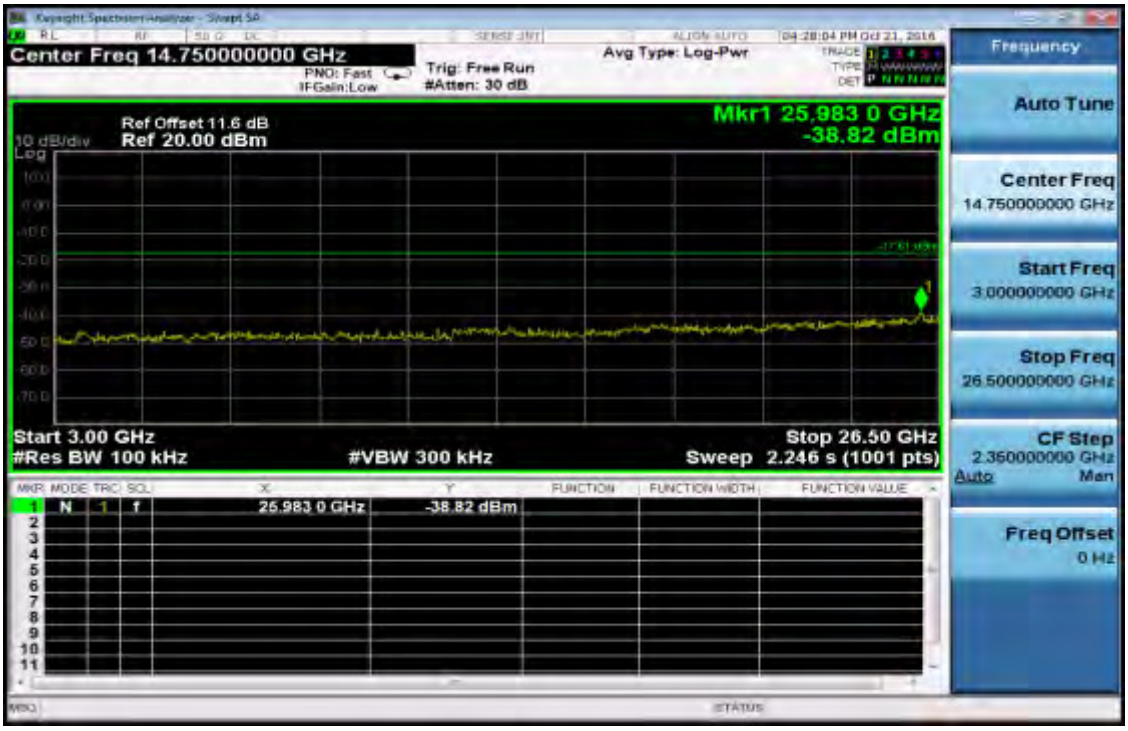
802.11n_HT20

Spurious Emission Test Data CH-Low





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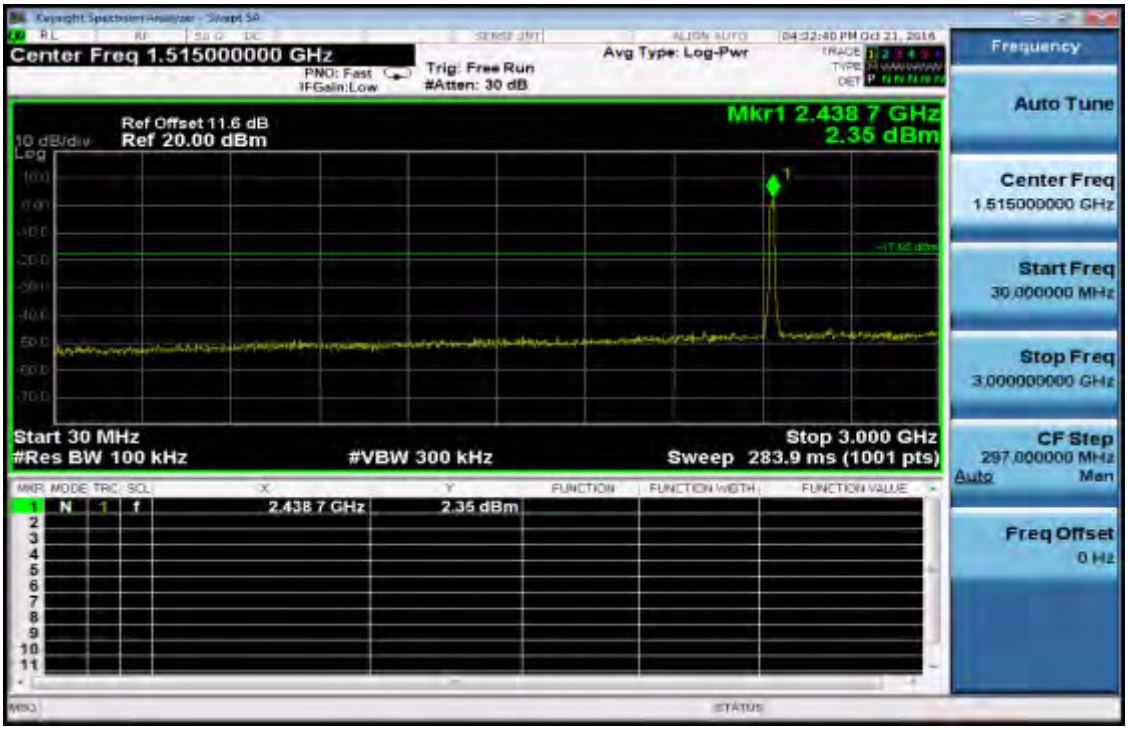
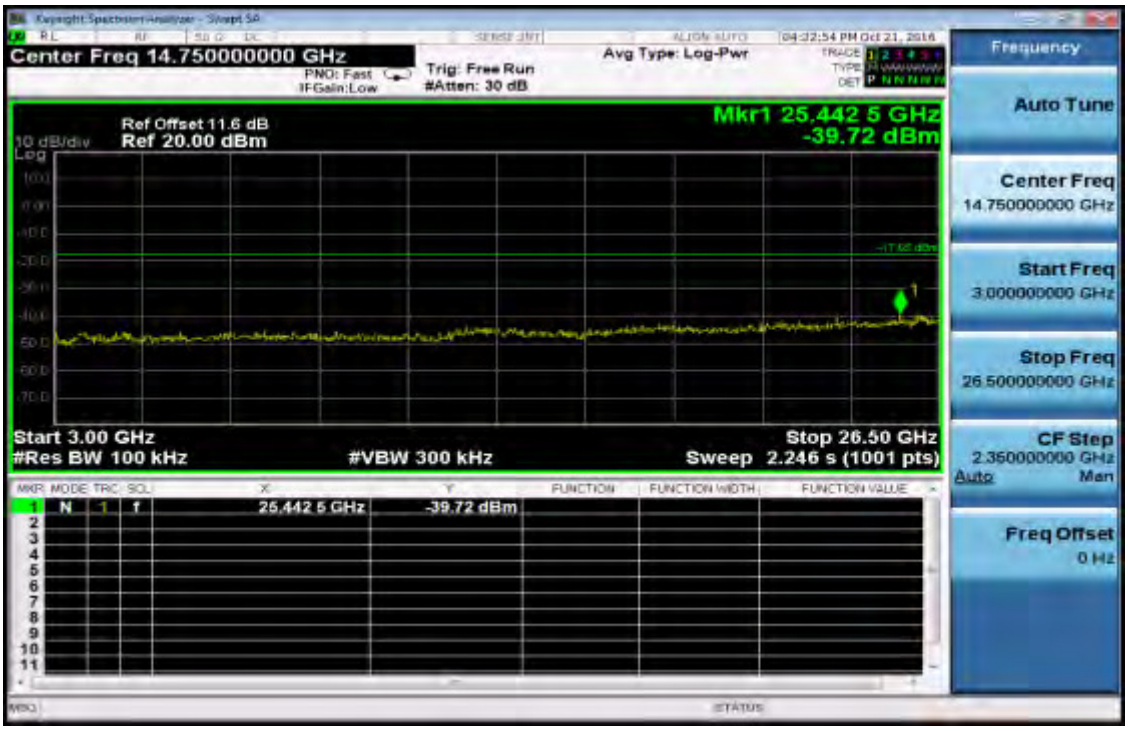
Spurious Emission Test Data CH-Mid





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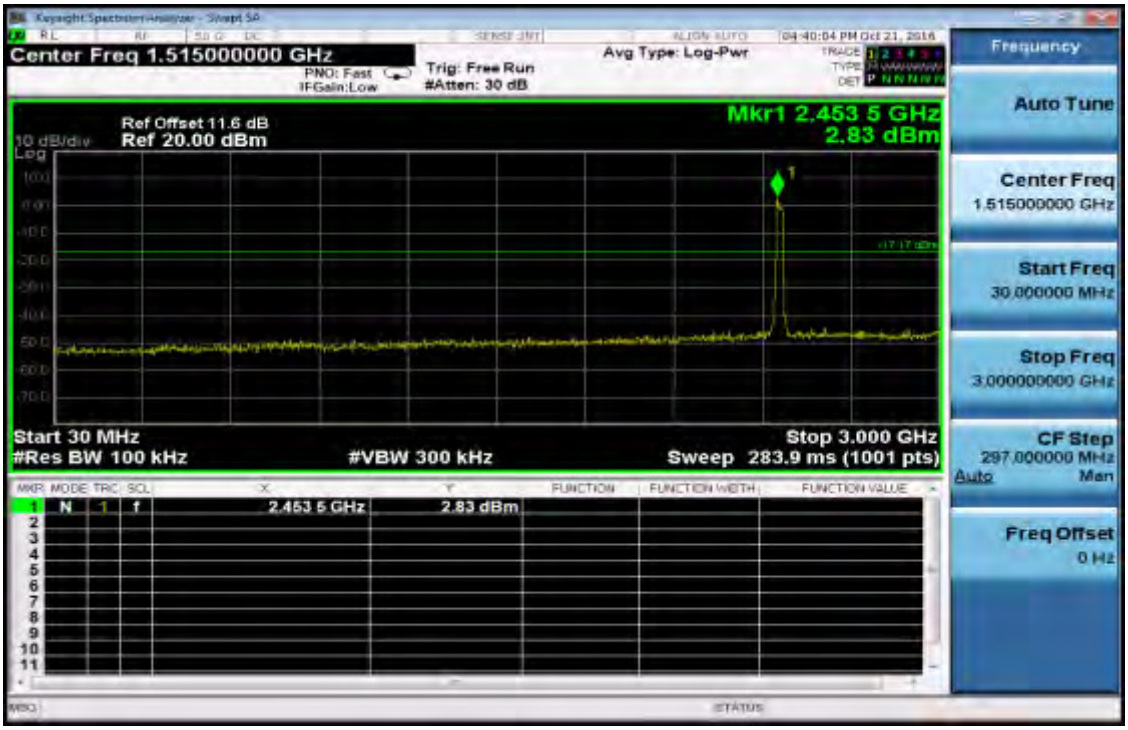
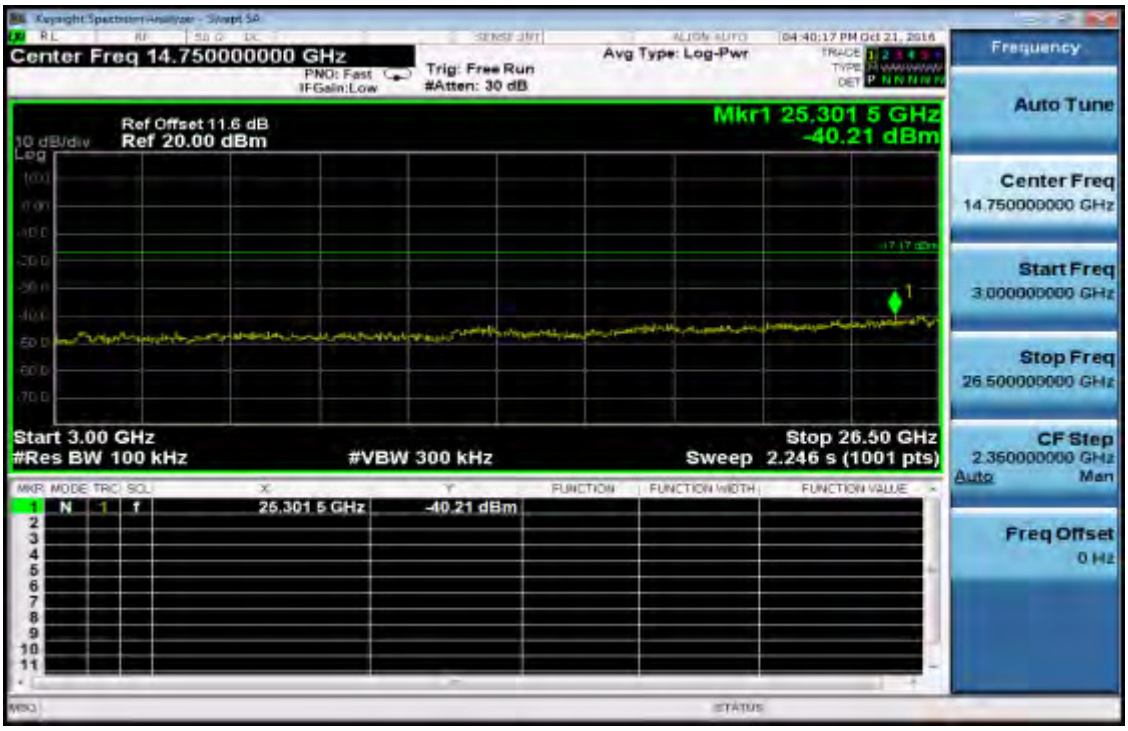
Spurious Emission Test Data CH-High





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802.11n_HT40

Band Edges Test Data CH-Low

Band Edges Test Data CH-High

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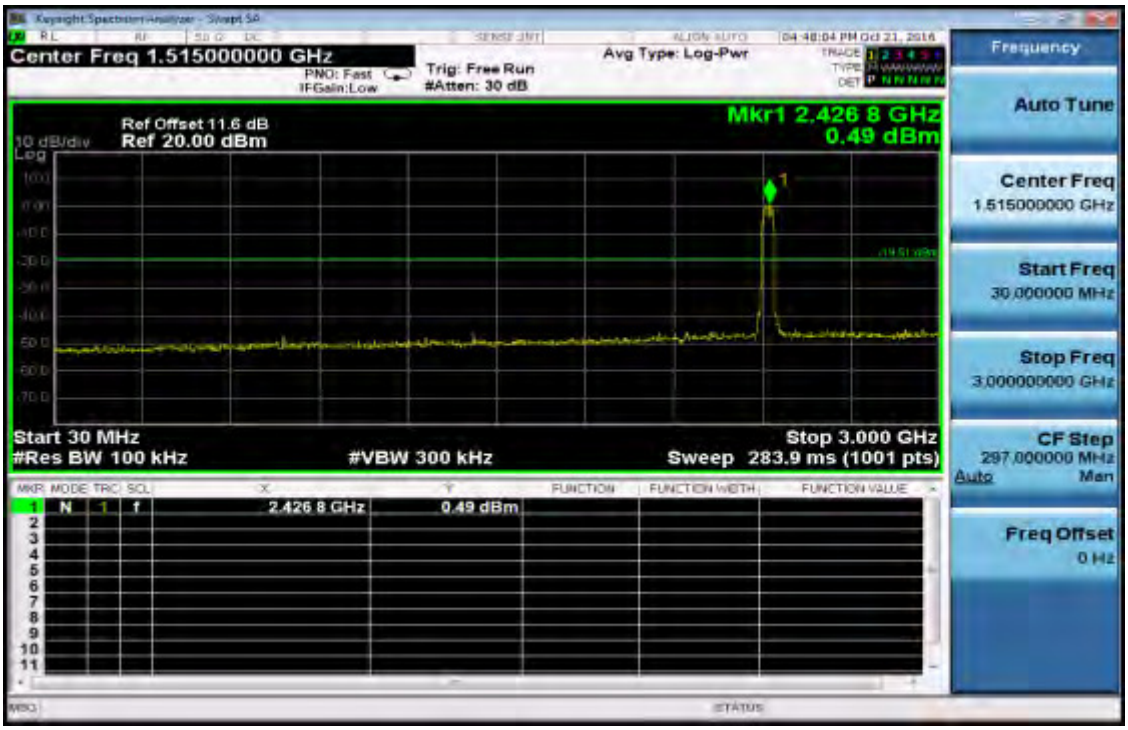
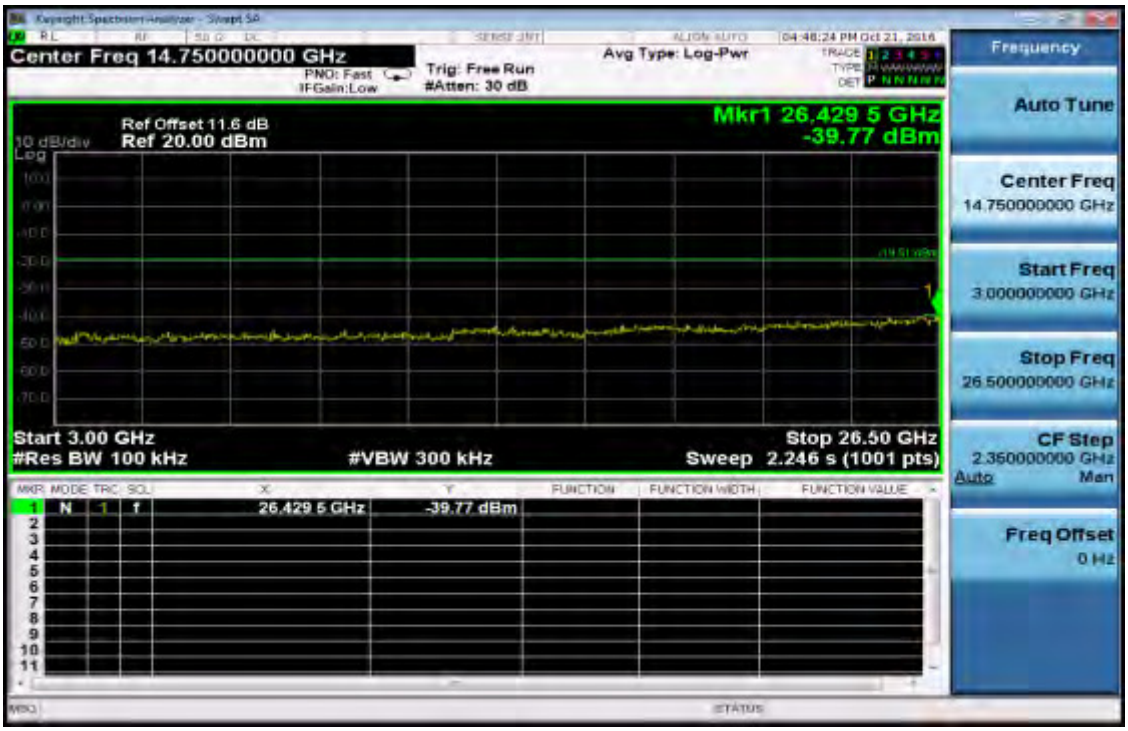
802.11n_HT40

Spurious Emission Test Data CH-Low





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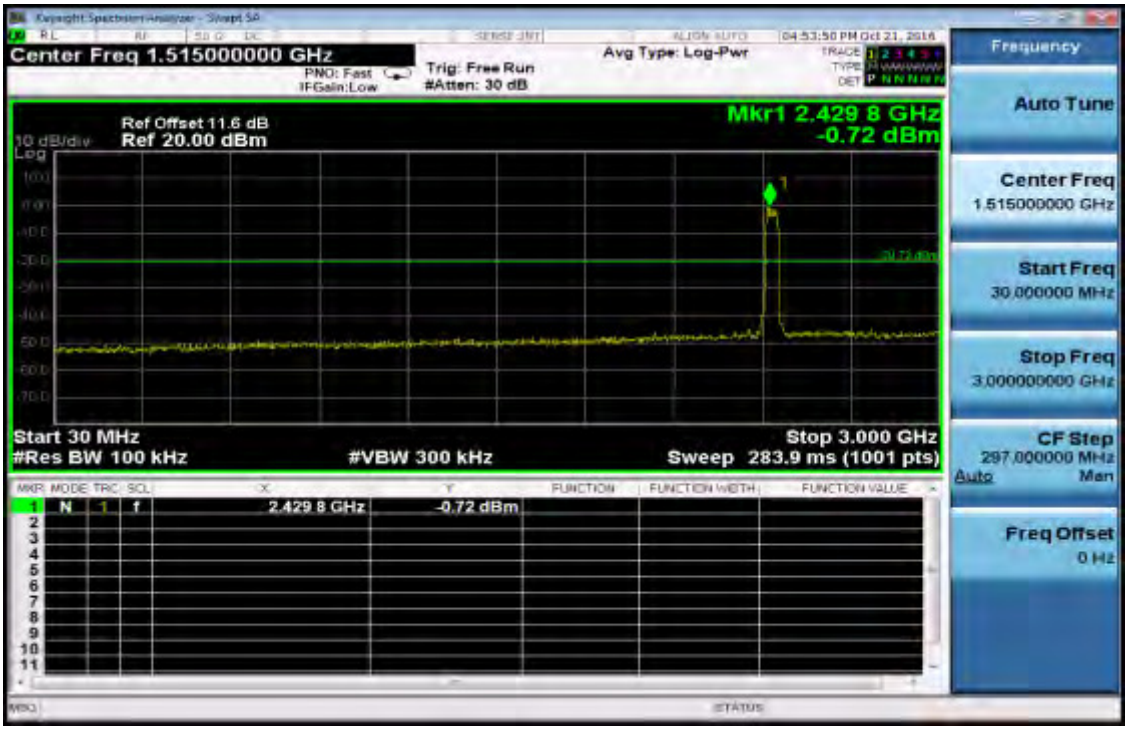
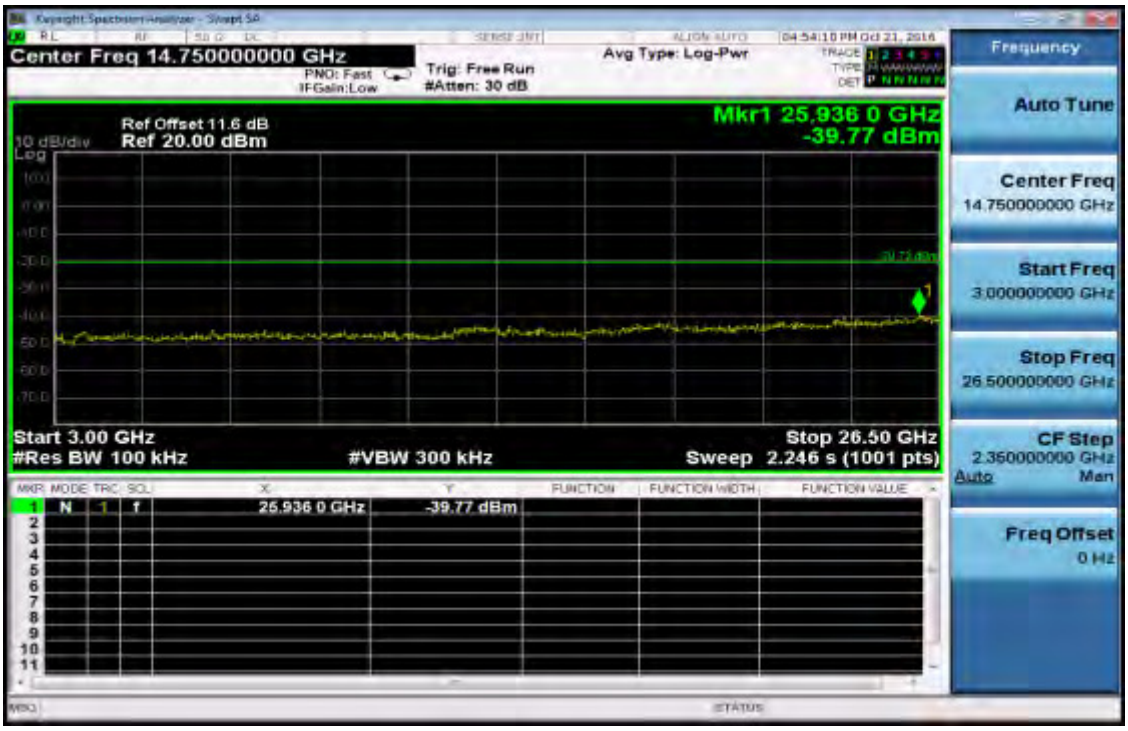
Spurious Emission Test Data CH-Mid





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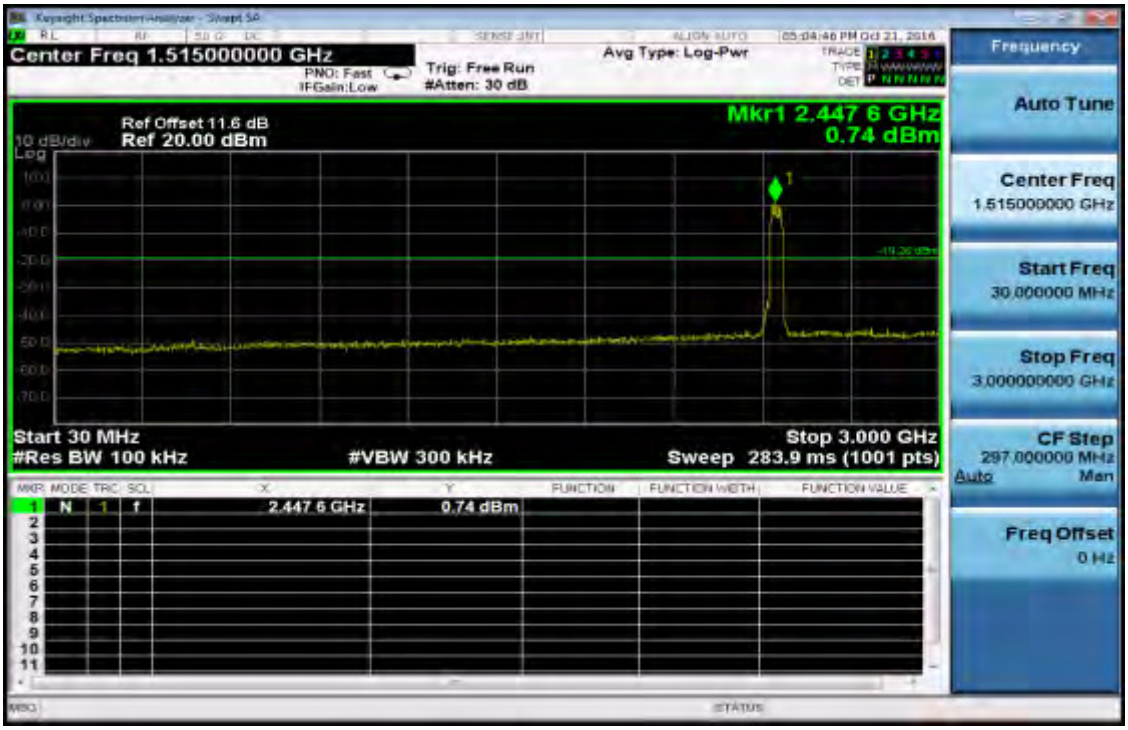
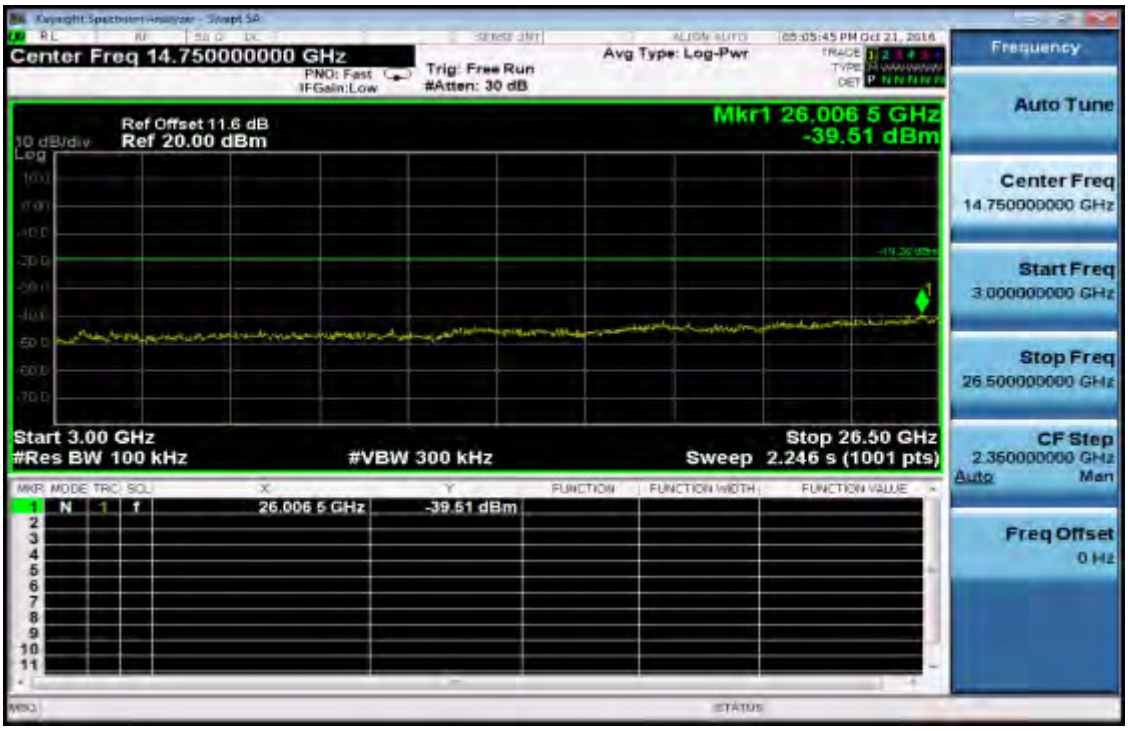
Spurious Emission Test Data CH-High





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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

Note:

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

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11.2 Measurement Equipment Used:

966 Chamber					
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	12/23/2015	12/22/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/18/2016	07/17/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-26	100780	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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

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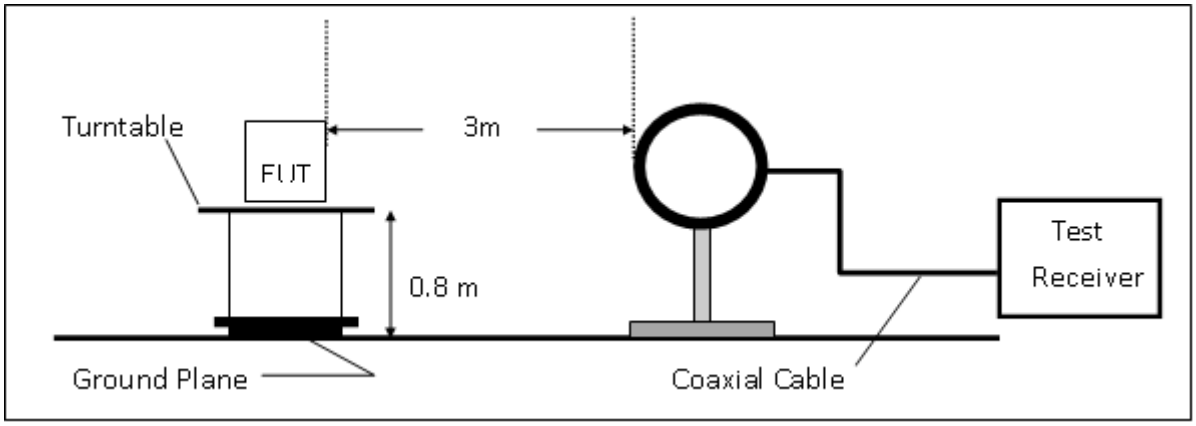
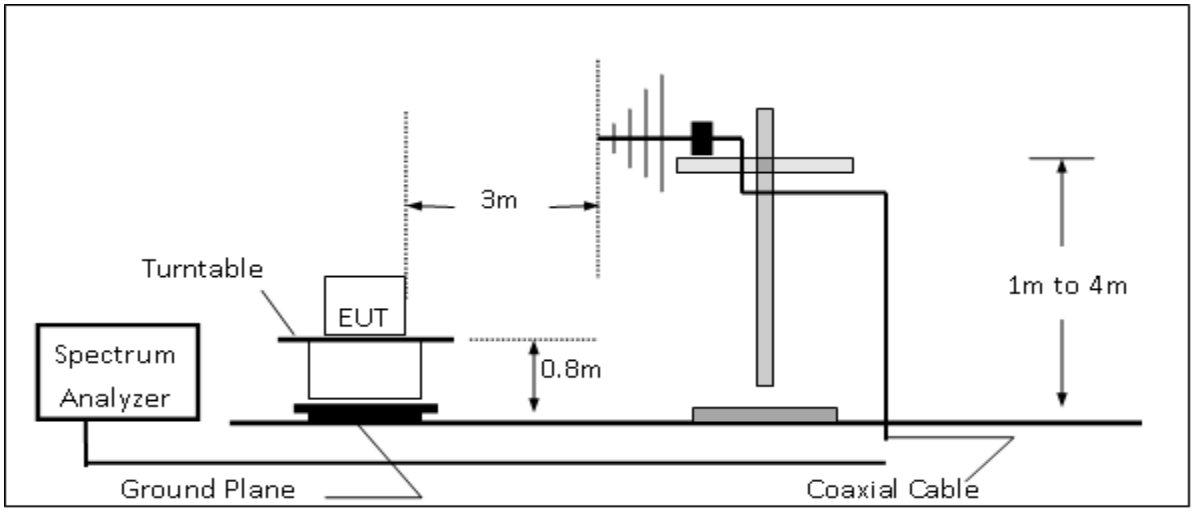
11.3 Test SET-UP

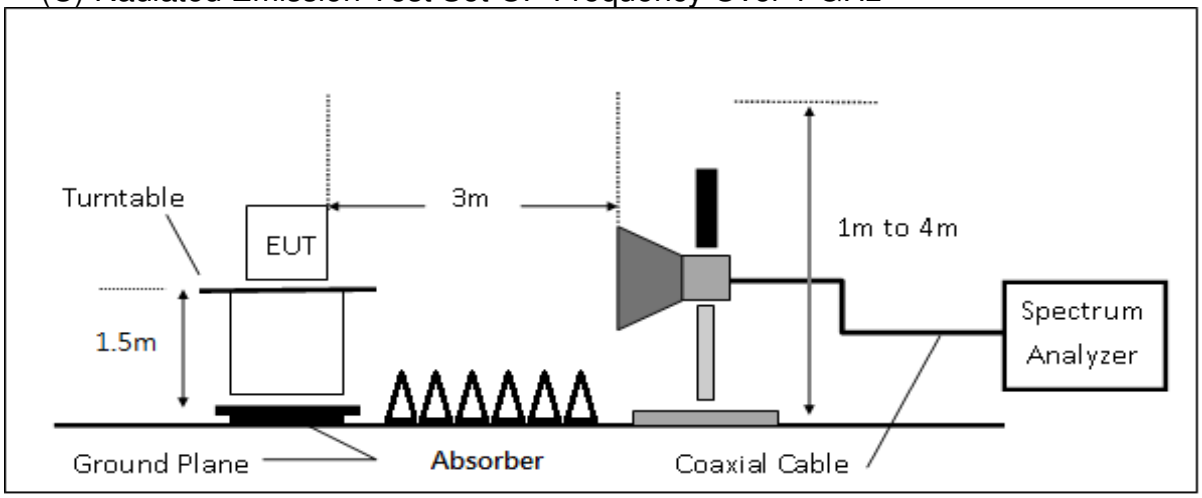
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When 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.
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. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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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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Radiated Band Edge Measurement Result (802.11b)

Operation Mode :	802.11b	Test Date :	2016/10/14
Fundamental Frequency :	2412 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	E	Peak	58.66	-6.84	51.81	74	-22.19
2390.00	E	Average	45.33	-6.84	38.48	54	-15.52

Operation Mode :	802.11b	Test Date :	2016/10/14
Fundamental Frequency :	2412 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	E	Peak	60.00	-6.84	53.15	74	-20.85
2390.00	E	Average	46.90	-6.84	40.05	54	-13.95

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Operation Mode :	802.11b	Test Date :	2016/10/14
Fundamental Frequency :	2462 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	E	Peak	58.40	-6.38	52.02	74	-21.98
2483.50	E	Average	45.72	-6.38	39.33	54	-14.67

Operation Mode :	802.11b	Test Date :	2016/10/14
Fundamental Frequency :	2462 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	E	Peak	59.02	-6.38	52.63	74	-21.37
2483.50	E	Average	47.40	-6.38	41.02	54	-12.98

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Radiated Band Edge Measurement Result (802.11g)

Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2412 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	E	Peak	69.40	-6.84	62.56	74	-11.44
2390.00	E	Average	48.51	-6.84	41.67	54	-12.33

Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2412 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	E	Peak	75.80	-6.84	68.95	74	-5.05
2390.00	E	Average	54.49	-6.84	47.65	54	-6.35

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Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2462 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	E	Peak	70.19	-6.38	63.81	74	-10.19
2483.50	E	Average	48.82	-6.38	42.43	54	-11.57

Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2462 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	E	Peak	76.00	-6.38	69.62	74	-4.38
2483.50	E	Average	52.66	-6.38	46.27	54	-7.73

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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	2016/10/14
Fundamental Frequency :	2412 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	E	Peak	65.05	-6.84	58.21	74	-15.79
2390.00	E	Average	47.35	-6.84	40.50	54	-13.50

Operation Mode :	802.11n20	Test Date :	2016/10/14
Fundamental Frequency :	2412 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	E	Peak	72.39	-6.84	65.55	74	-8.45
2390.00	E	Average	52.47	-6.84	45.63	54	-8.37

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Operation Mode :	802.11n20	Test Date :	2016/10/14
Fundamental Frequency :	2462 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	E	Peak	68.97	-6.38	62.58	74	-11.42
2483.50	E	Average	47.53	-6.38	41.14	54	-12.86
2484.60	S	Peak	70.24	-6.38	63.87	74	-10.13
2484.60	S	Average	46.91	-6.38	40.53	54	-13.47

Operation Mode :	802.11n20	Test Date :	2016/10/14
Fundamental Frequency :	2462 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	E	Peak	72.81	-6.38	66.42	74	-7.58
2483.50	E	Average	50.44	-6.38	44.06	54	-9.94

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Radiated Band Edge Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	2016/10/14
Fundamental Frequency :	2422 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	E	Peak	64.49	-6.84	57.64	74	-16.36
2390.00	E	Average	49.49	-6.84	42.64	54	-11.36

Operation Mode :	802.11n40	Test Date :	2016/10/14
Fundamental Frequency :	2422 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	E	Peak	74.26	-6.84	67.41	74	-6.59
2390.00	E	Average	55.28	-6.84	48.44	54	-5.56

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Operation Mode :	802.11n40	Test Date :	2016/10/14
Fundamental Frequency :	2452 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	E	Peak	63.44	-6.38	57.06	74	-16.94
2483.50	E	Average	46.62	-6.38	40.24	54	-13.76
2485.70	S	Peak	66.39	-6.37	60.02	74	-13.98
2485.70	S	Average	46.46	-6.37	40.08	54	-13.92

Operation Mode :	802.11n40	Test Date :	2016/10/14
Fundamental Frequency :	2452 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	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	E	Peak	69.24	-6.38	62.86	74	-11.14
2483.50	E	Average	48.85	-6.38	42.47	54	-11.53

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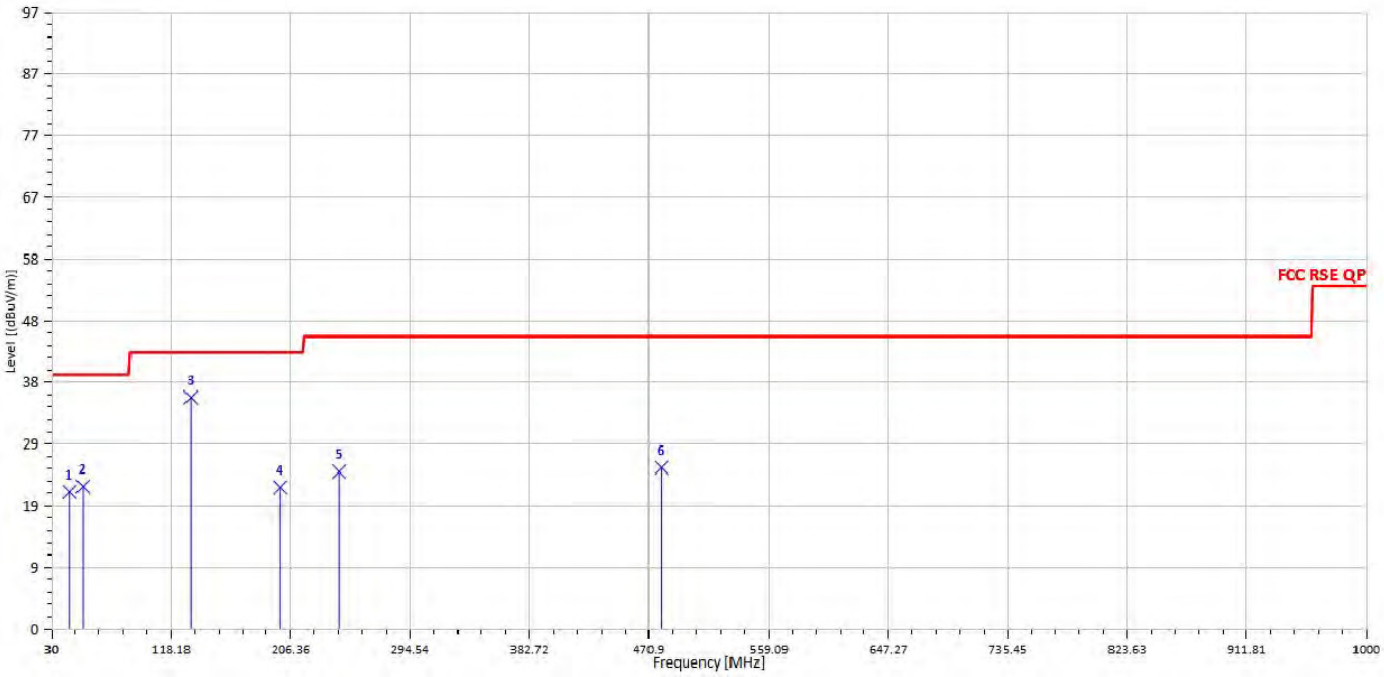
Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2412 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	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
43.58	S	Peak	44.64	-23.10	21.54	40	-18.46
53.28	S	Peak	46.40	-24.01	22.39	40	-17.61
132.82	S	Peak	60.62	-24.19	36.43	43.5	-7.07
198.78	S	Peak	47.61	-25.34	22.27	43.5	-21.23
242.43	S	Peak	47.96	-23.20	24.76	46	-21.24
480.08	S	Peak	42.43	-17.03	25.39	46	-20.61

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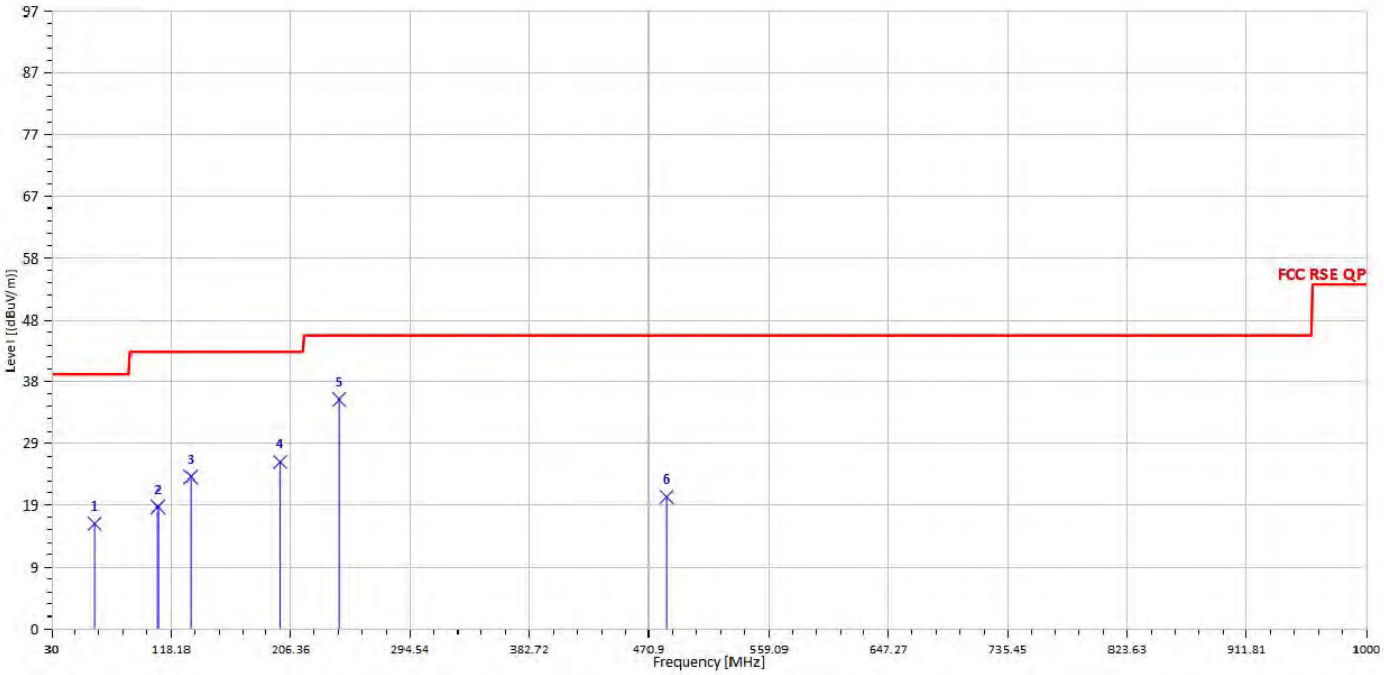
Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
62.01	S	Peak	41.18	-24.71	16.47	40	-23.53
108.57	S	Peak	44.94	-25.80	19.14	43.5	-24.36
132.82	S	Peak	48.04	-24.19	23.85	43.5	-19.65
198.78	S	Peak	51.56	-25.34	26.22	43.5	-17.28
242.43	S	Peak	59.19	-23.20	35.99	46	-10.01
483.96	S	Peak	37.78	-17.11	20.67	46	-25.33

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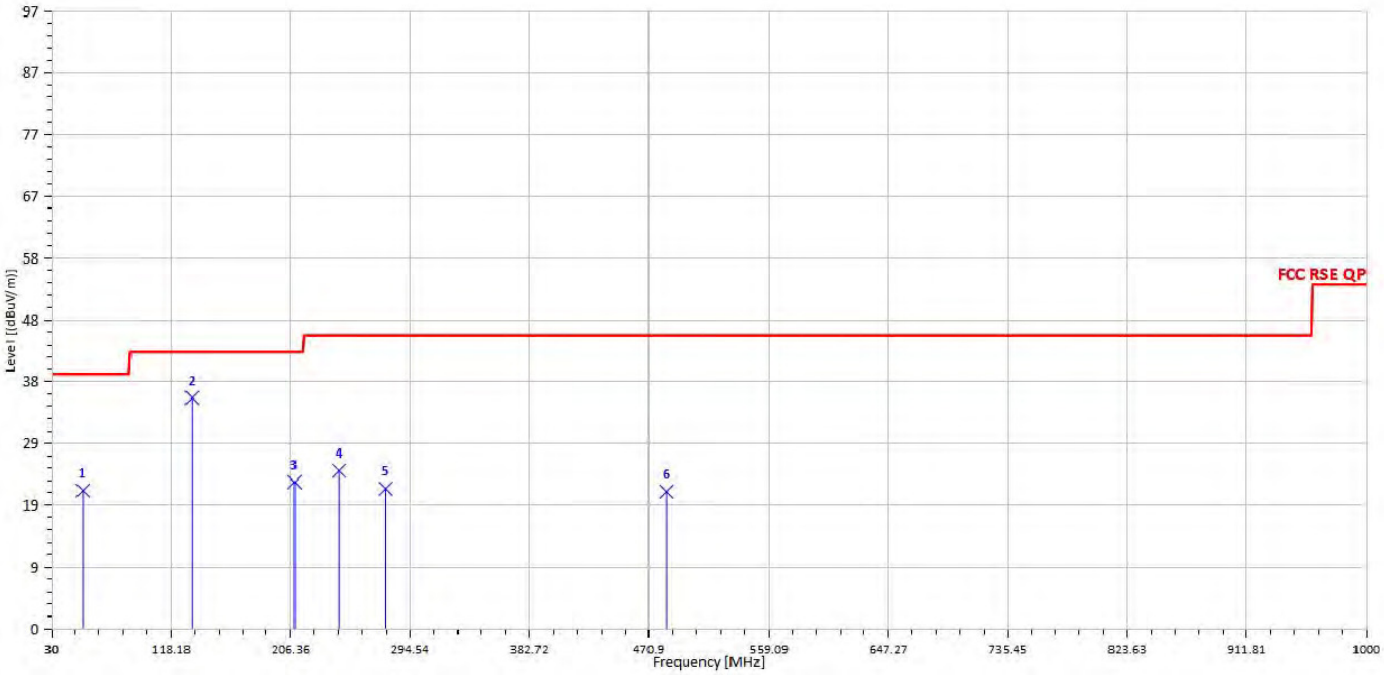
Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
53.28	S	Peak	45.69	-24.01	21.68	40	-18.32
133.79	S	Peak	60.30	-24.03	36.26	43.5	-7.24
209.45	S	Peak	48.15	-25.13	23.02	43.5	-20.48
242.43	S	Peak	48.00	-23.20	24.80	46	-21.20
276.38	S	Peak	44.06	-22.07	21.99	46	-24.01
483.96	S	Peak	38.62	-17.11	21.51	46	-24.49

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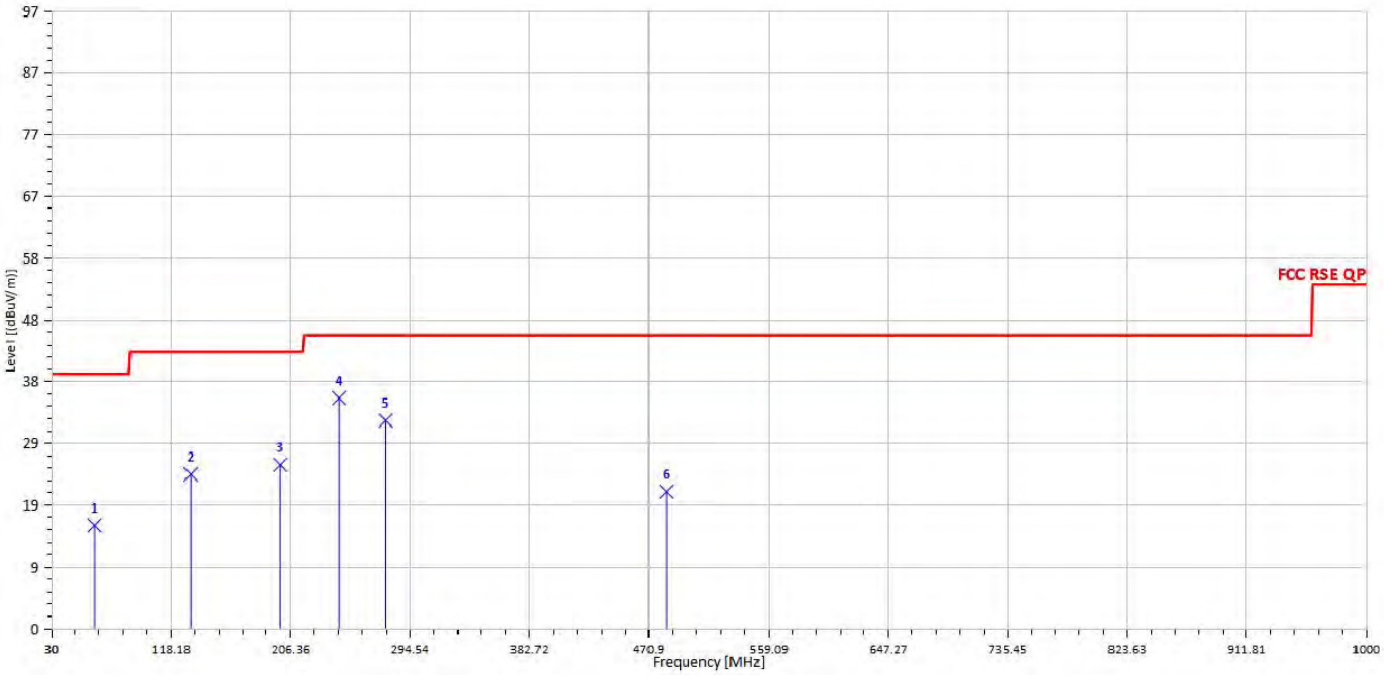
Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.01	S	Peak	40.90	-24.71	16.19	40	-23.81
132.82	S	Peak	48.45	-24.19	24.26	43.5	-19.24
198.78	S	Peak	51.08	-25.34	25.74	43.5	-17.76
242.43	S	Peak	59.42	-23.20	36.22	46	-9.78
276.38	S	Peak	54.77	-22.07	32.70	46	-13.30
483.96	S	Peak	38.63	-17.11	21.52	46	-24.48

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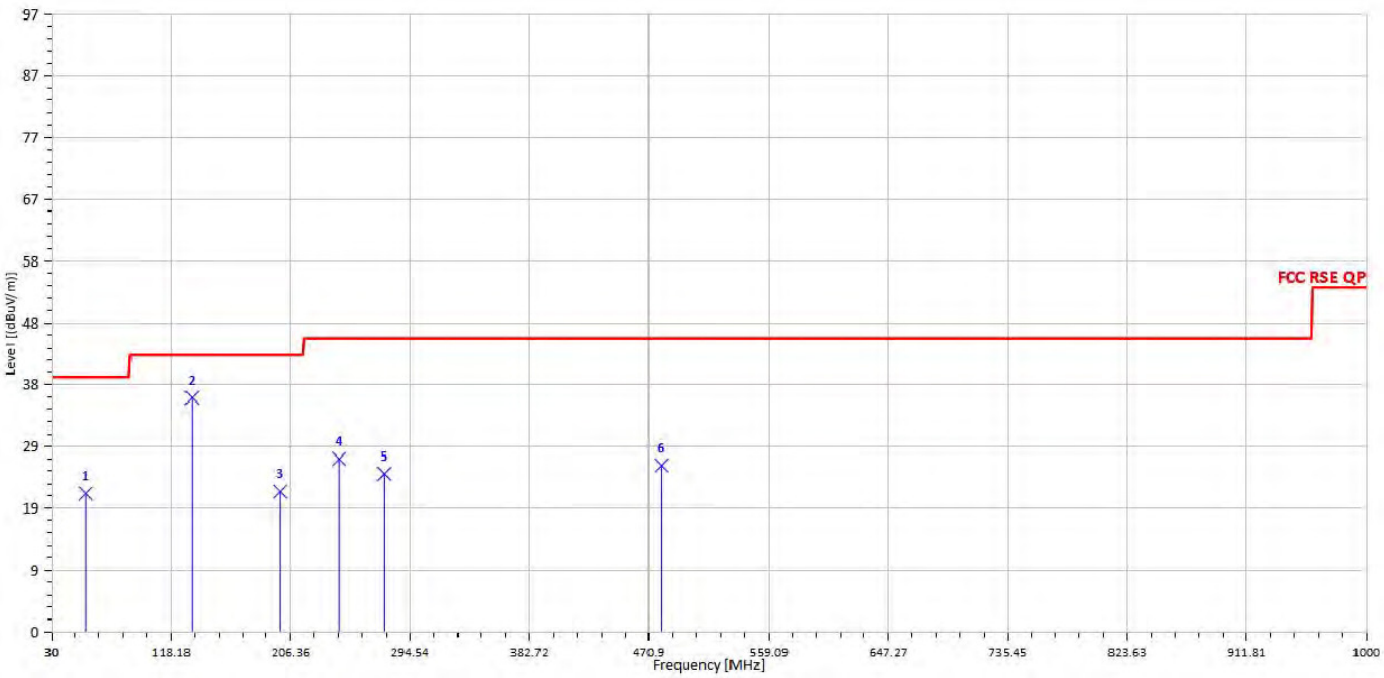
Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
55.22	S	Peak	45.90	-24.16	21.74	40	-18.26
133.79	S	Peak	60.77	-24.03	36.74	43.5	-6.76
198.78	S	Peak	47.39	-25.34	22.06	43.5	-21.44
242.43	S	Peak	50.31	-23.20	27.12	46	-18.88
275.41	S	Peak	46.89	-22.15	24.75	46	-21.25
480.08	S	Peak	43.12	-17.03	26.09	46	-19.91

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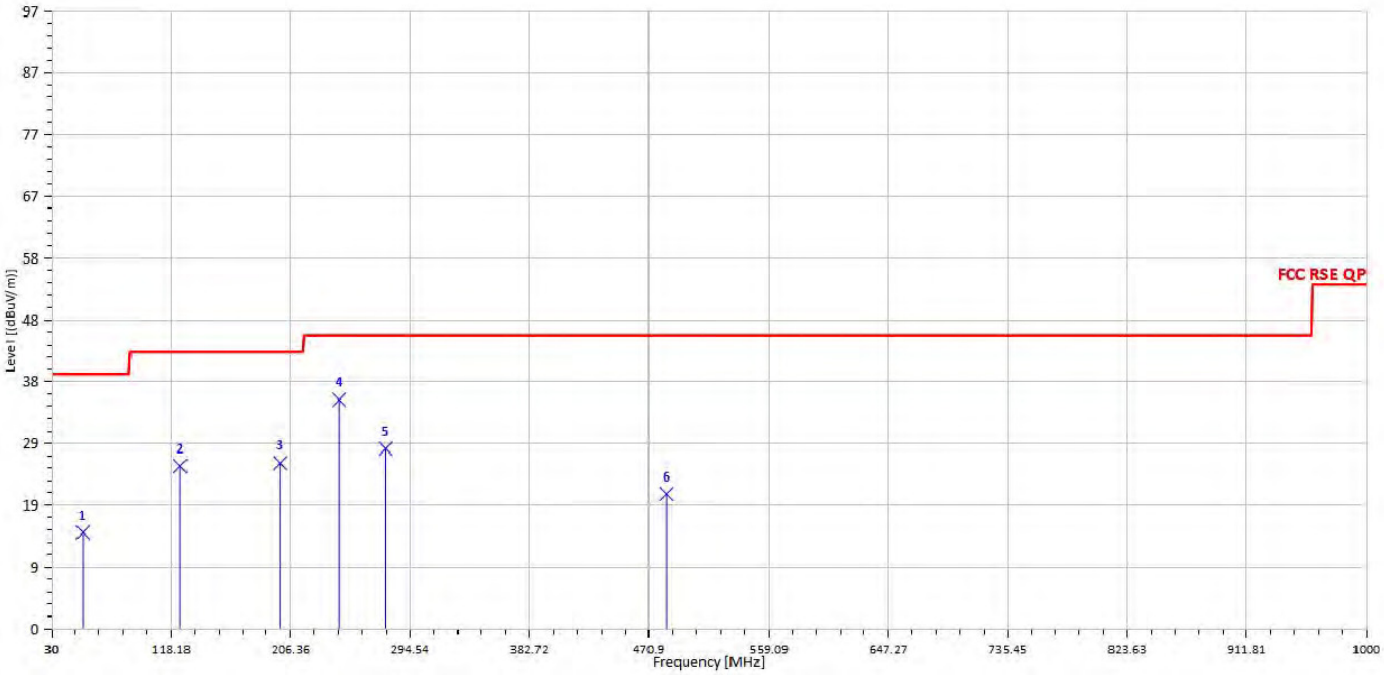
Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
53.28	S	Peak	39.13	-24.01	15.12	40	-24.88
125.06	S	Peak	50.21	-24.67	25.54	43.5	-17.96
198.78	S	Peak	51.34	-25.34	26.00	43.5	-17.50
242.43	S	Peak	59.14	-23.20	35.94	46	-10.06
276.38	S	Peak	50.35	-22.07	28.28	46	-17.72
483.96	S	Peak	38.25	-17.11	21.14	46	-24.86

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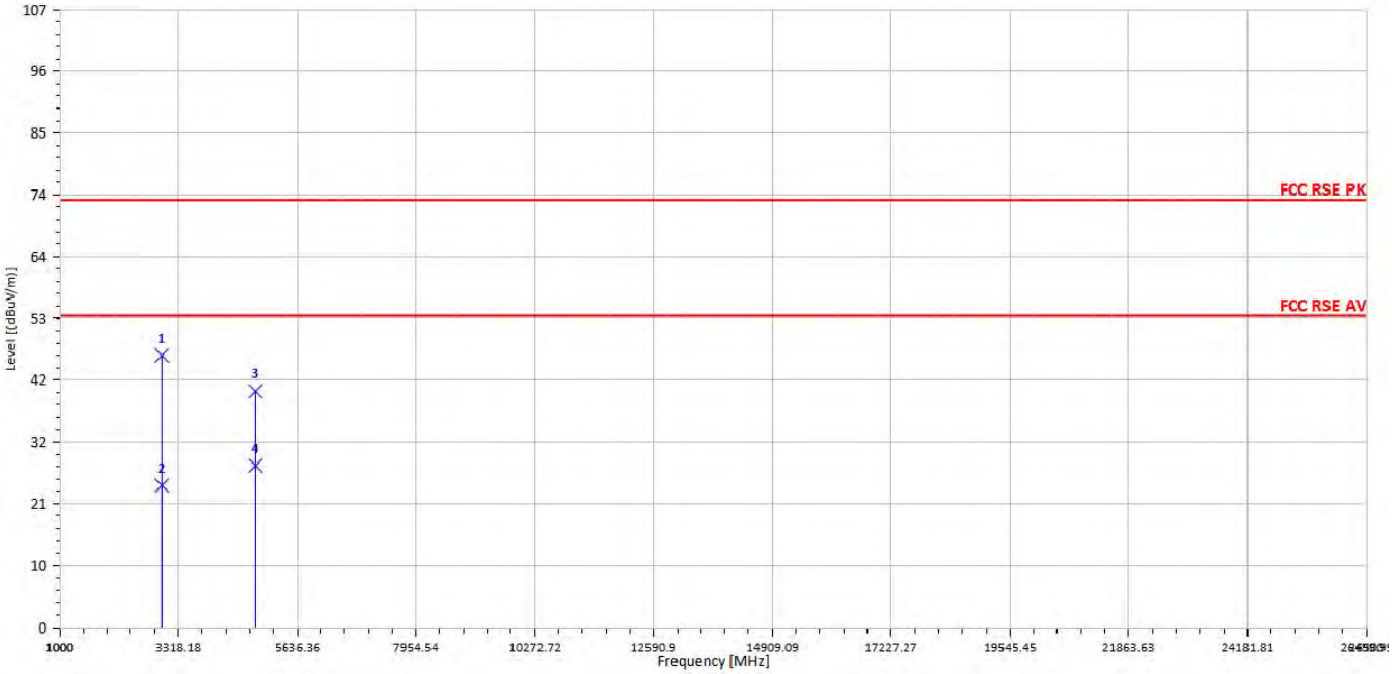
Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Mode :	802.11b	Test Date :	2016/10/14
Fundamental Frequency :	2412 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	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2995.00	S	Peak	52.27	-5.19	47.08	74	-26.92
2995.00	S	Average	29.76	-5.19	24.58	54	-29.43
4824.00	H	Peak	41.93	-1.04	40.89	74	-33.11
4824.00	H	Average	29.05	-1.04	28.01	54	-25.99

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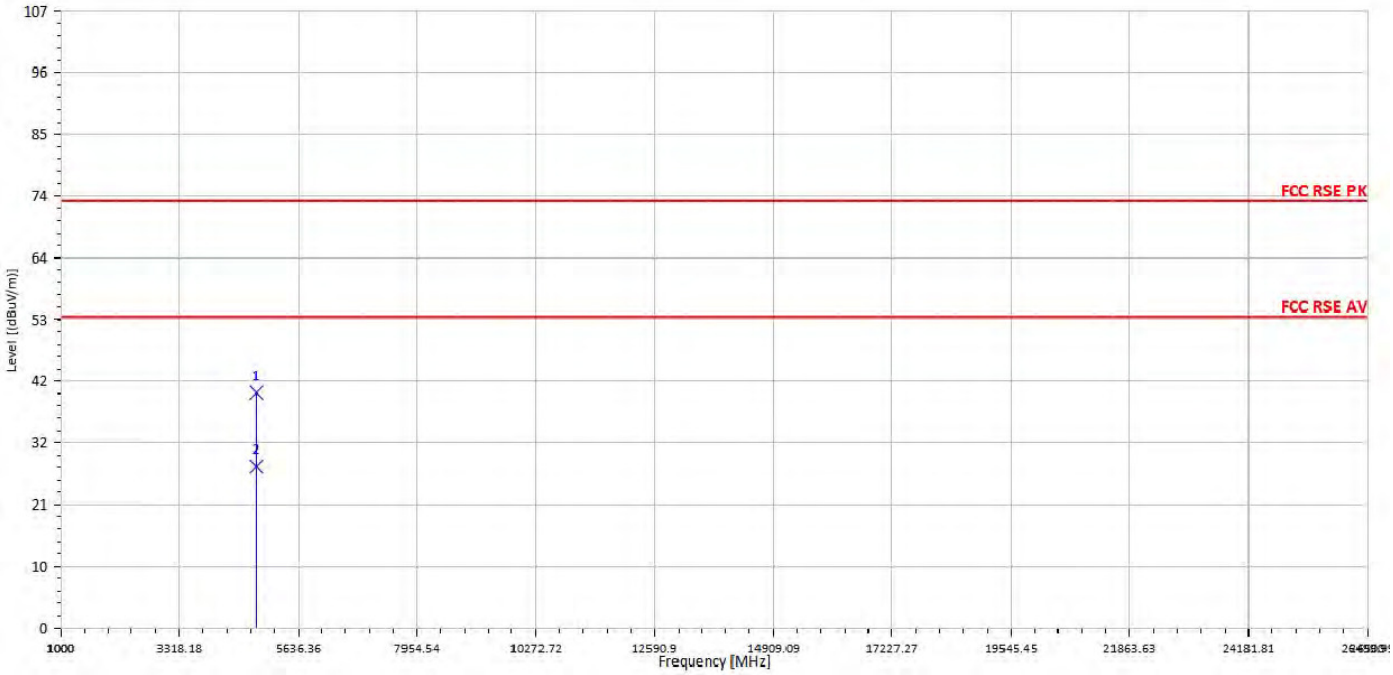
Operation Mode :	802.11b	Test Date :	2016/10/14
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4824.00	H	Peak	41.84	-1.04	40.80	74	-33.20
4824.00	H	Average	29.00	-1.04	27.96	54	-26.04

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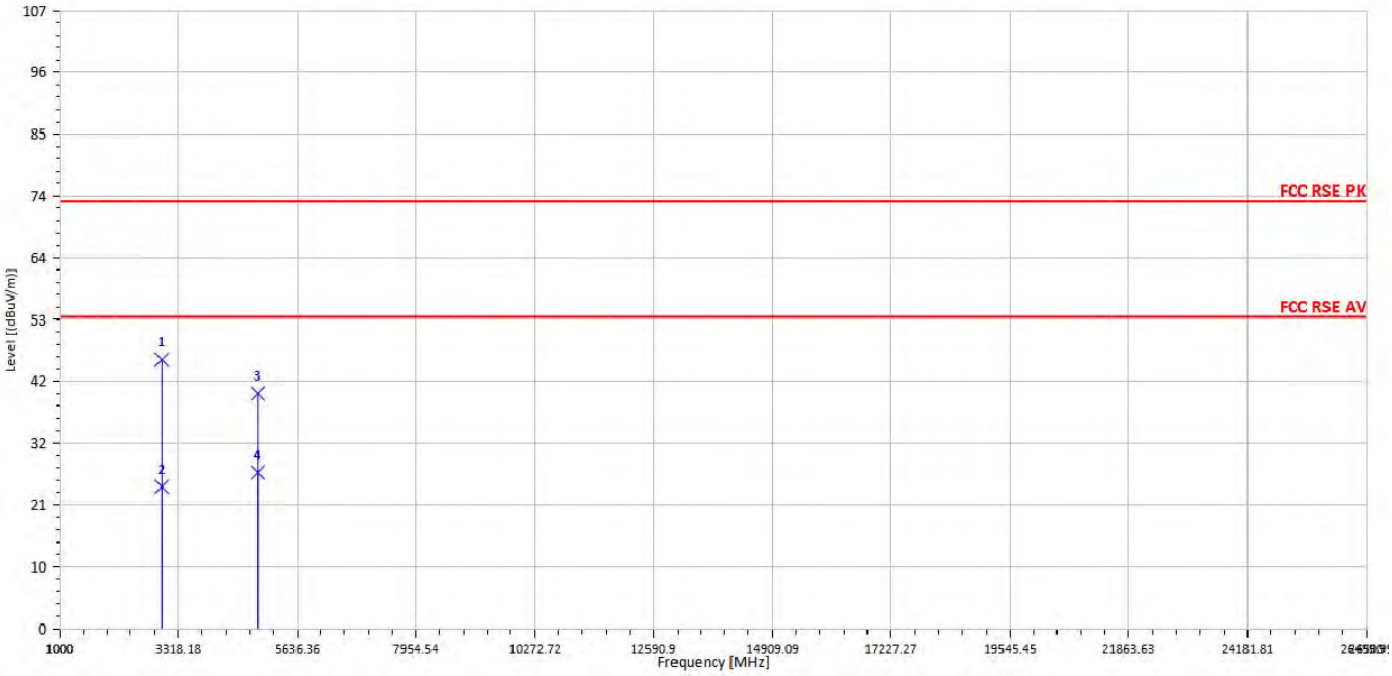
Operation Mode :	802.11b	Test Date :	2016/10/14
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2995.00	S	Peak	51.80	-5.19	46.61	74	-27.39
2995.00	S	Average	29.77	-5.19	24.58	54	-29.42
4874.00	H	Peak	41.43	-0.75	40.68	74	-33.32
4874.00	H	Average	27.78	-0.75	27.04	54	-26.96

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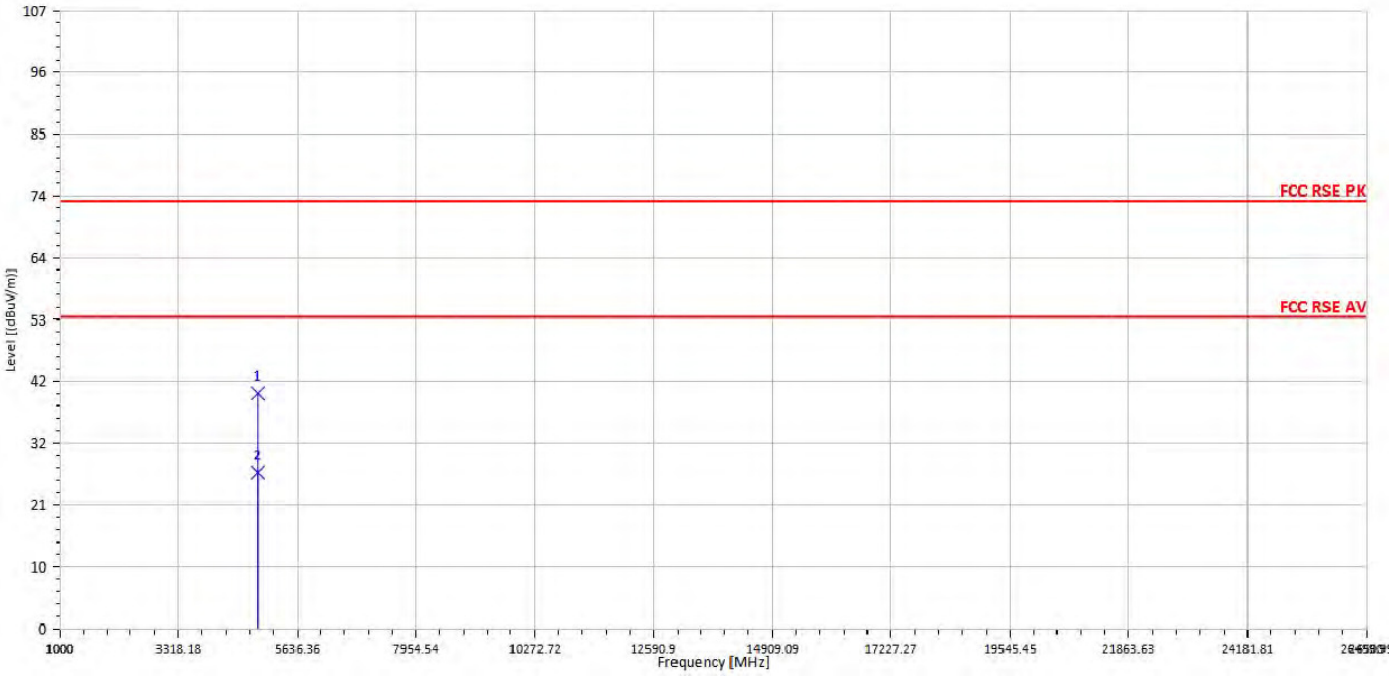
Operation Mode :	802.11b	Test Date :	2016/10/14
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	H	Peak	41.46	-0.75	40.71	74	-33.29
4874.00	H	Average	27.76	-0.75	27.02	54	-26.98

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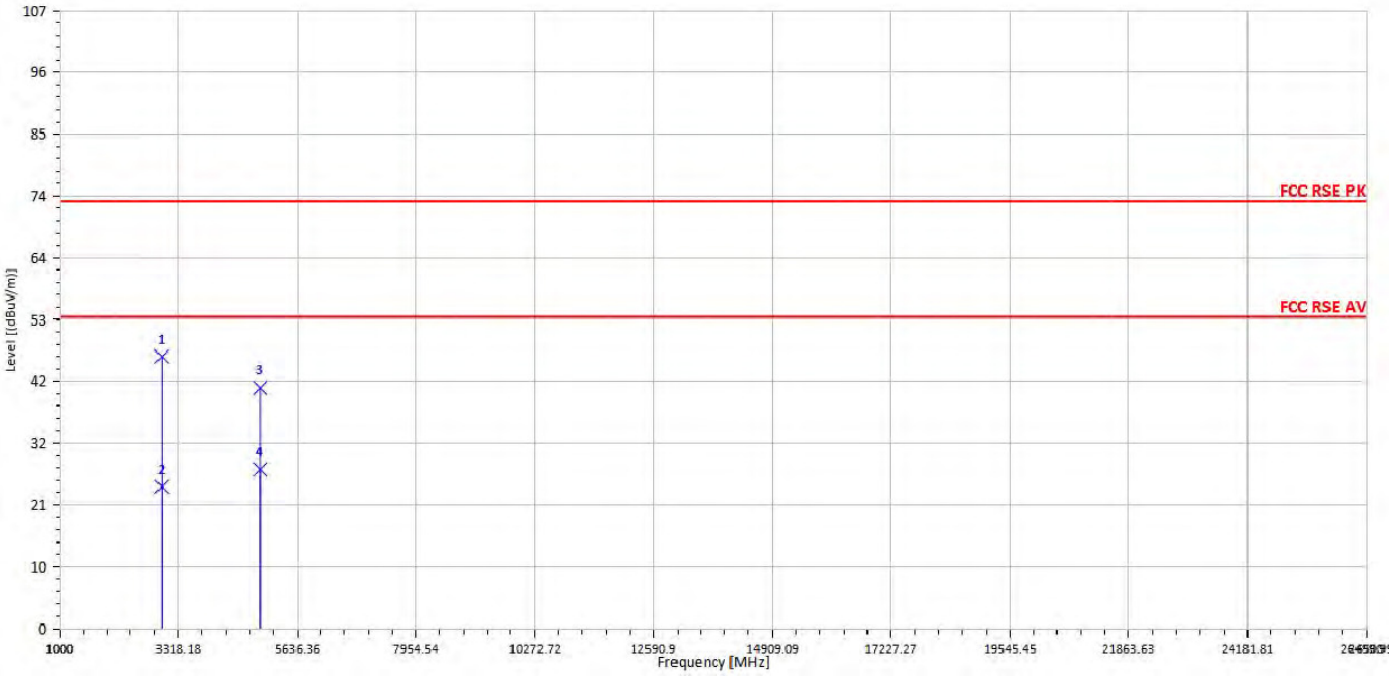
Member of SGS Group

Operation Mode :	802.11b	Test Date :	2016/10/14
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2995.00	S	Peak	52.29	-5.19	47.10	74	-26.90
2995.00	S	Average	29.76	-5.19	24.57	54	-29.43
4924.00	H	Peak	42.28	-0.62	41.66	74	-32.34
4924.00	H	Average	28.20	-0.62	27.58	54	-26.42

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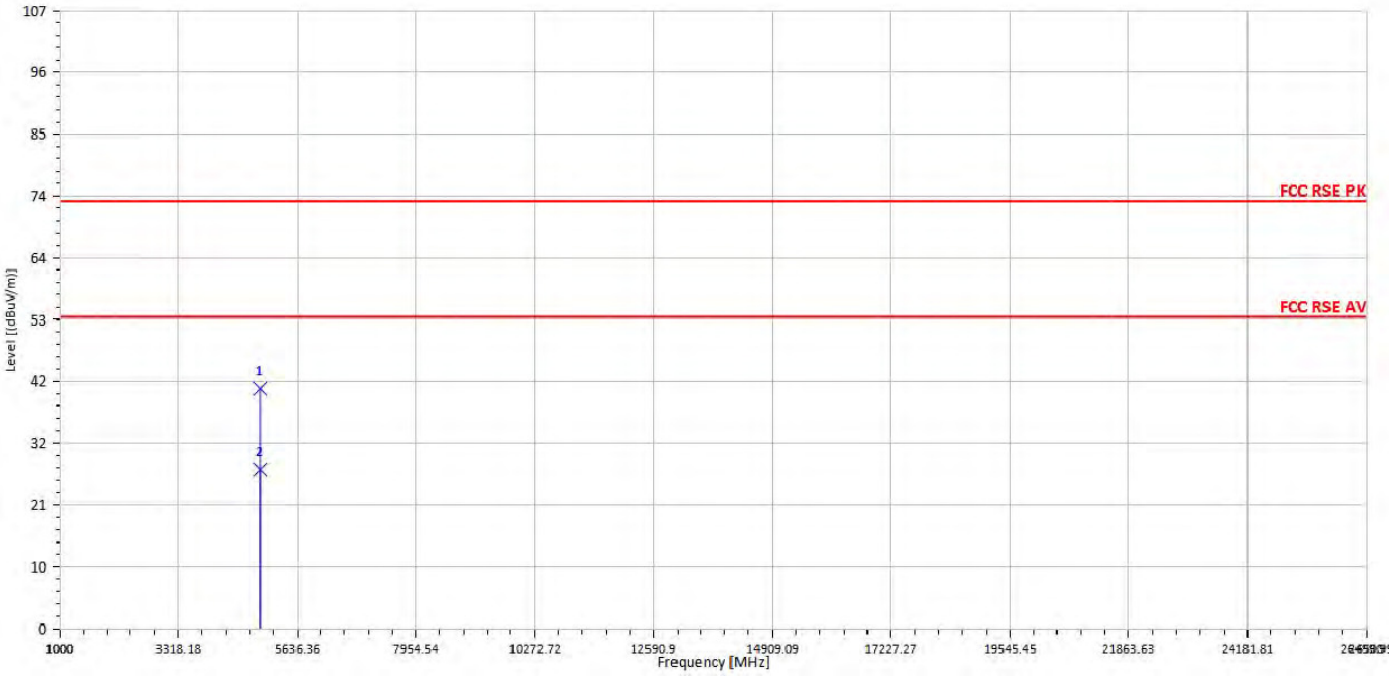
Operation Mode :	802.11b	Test Date :	2016/10/14
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4924.00	H	Peak	42.20	-0.62	41.58	74	-32.42
4924.00	H	Average	28.17	-0.62	27.55	54	-26.45

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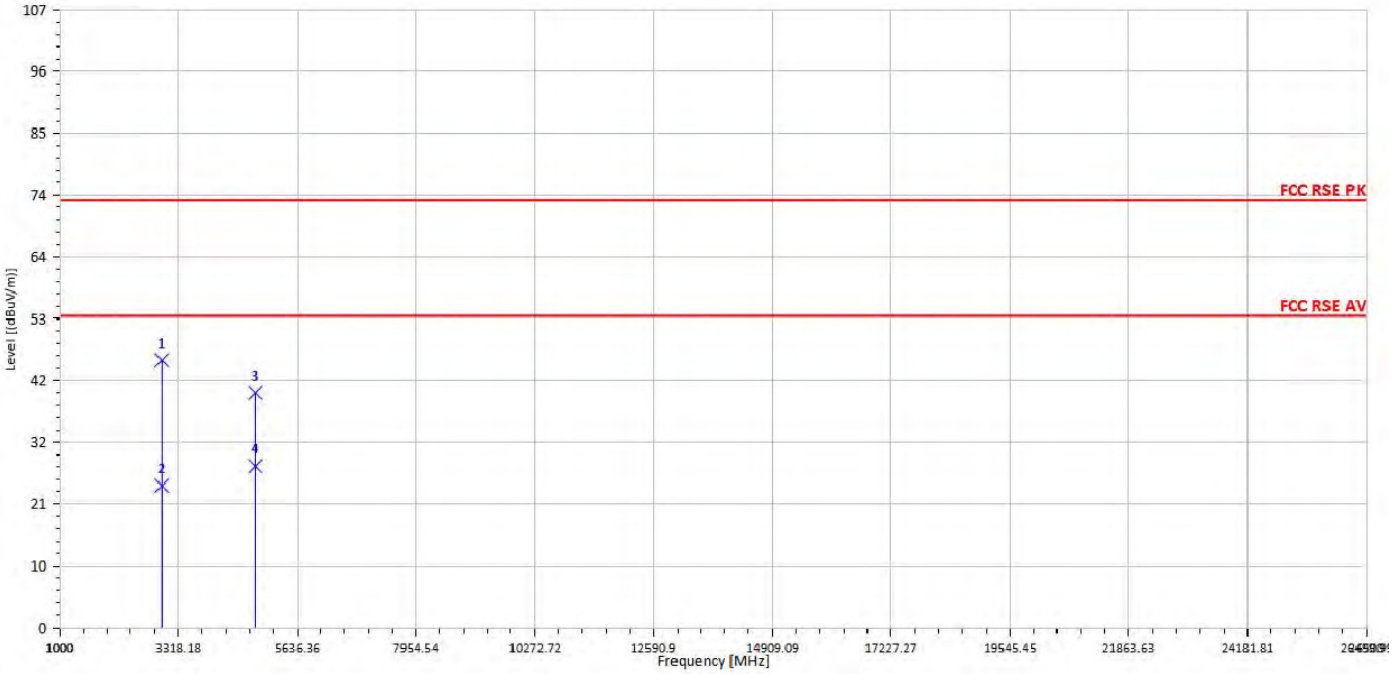
Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2412 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	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2995.00	S	Peak	51.49	-5.19	46.30	74	-27.70
2995.00	S	Average	29.76	-5.19	24.57	54	-29.43
4824.00	H	Peak	41.65	-1.04	40.61	74	-33.39
4824.00	H	Average	28.98	-1.04	27.94	54	-26.06

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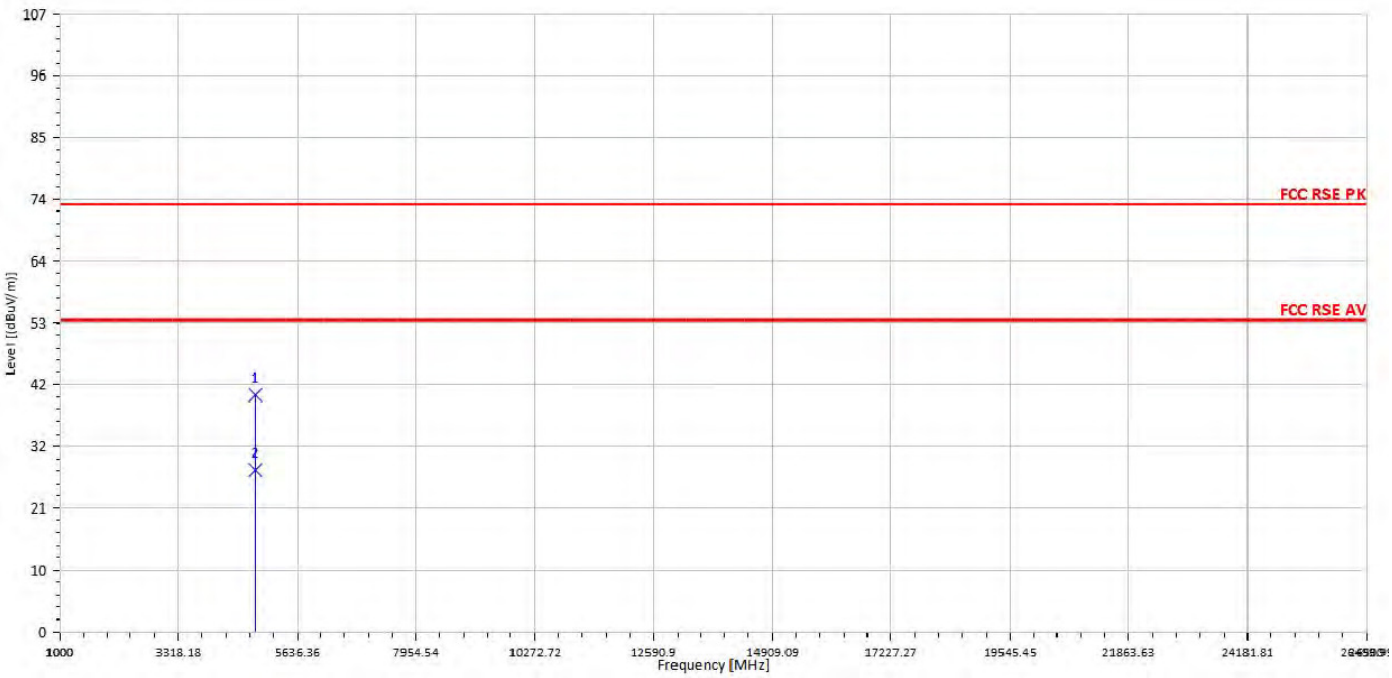
Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4824.00	H	Peak	42.04	-1.04	41.00	74	-33.00
4824.00	H	Average	29.01	-1.04	27.97	54	-26.03

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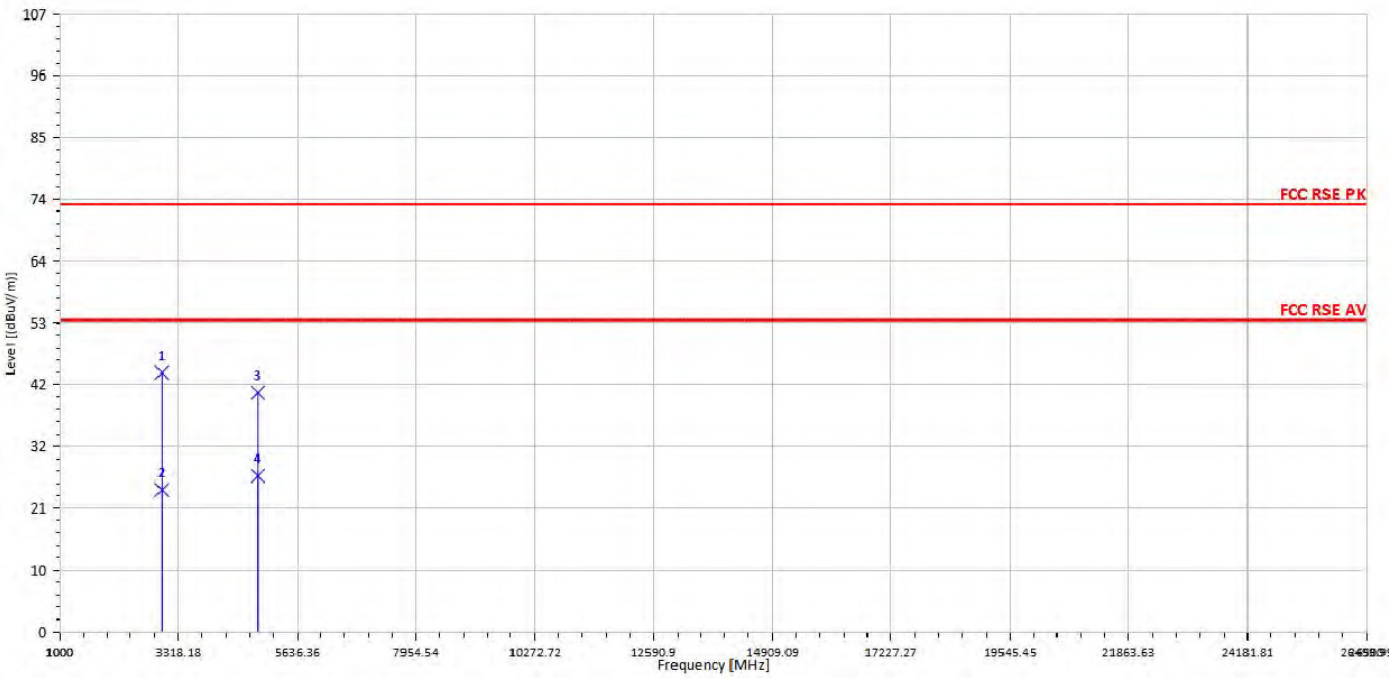
Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2995.00	S	Peak	50.05	-5.19	44.86	74	-29.14
2995.00	S	Average	29.78	-5.19	24.59	54	-29.41
4874.00	H	Peak	42.11	-0.75	41.36	74	-32.64
4874.00	H	Average	27.73	-0.75	26.98	54	-27.02

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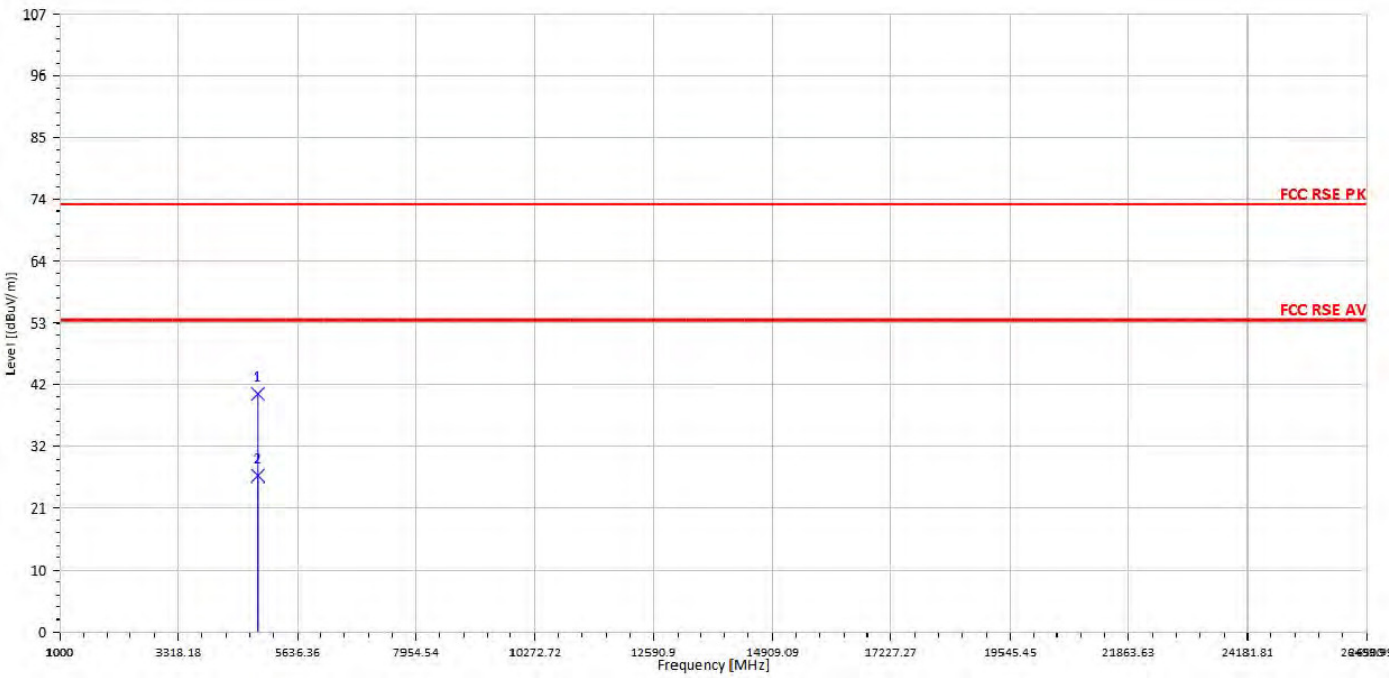
Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	H	Peak	41.88	-0.75	41.13	74	-32.87
4874.00	H	Average	27.75	-0.75	27.01	54	-26.99

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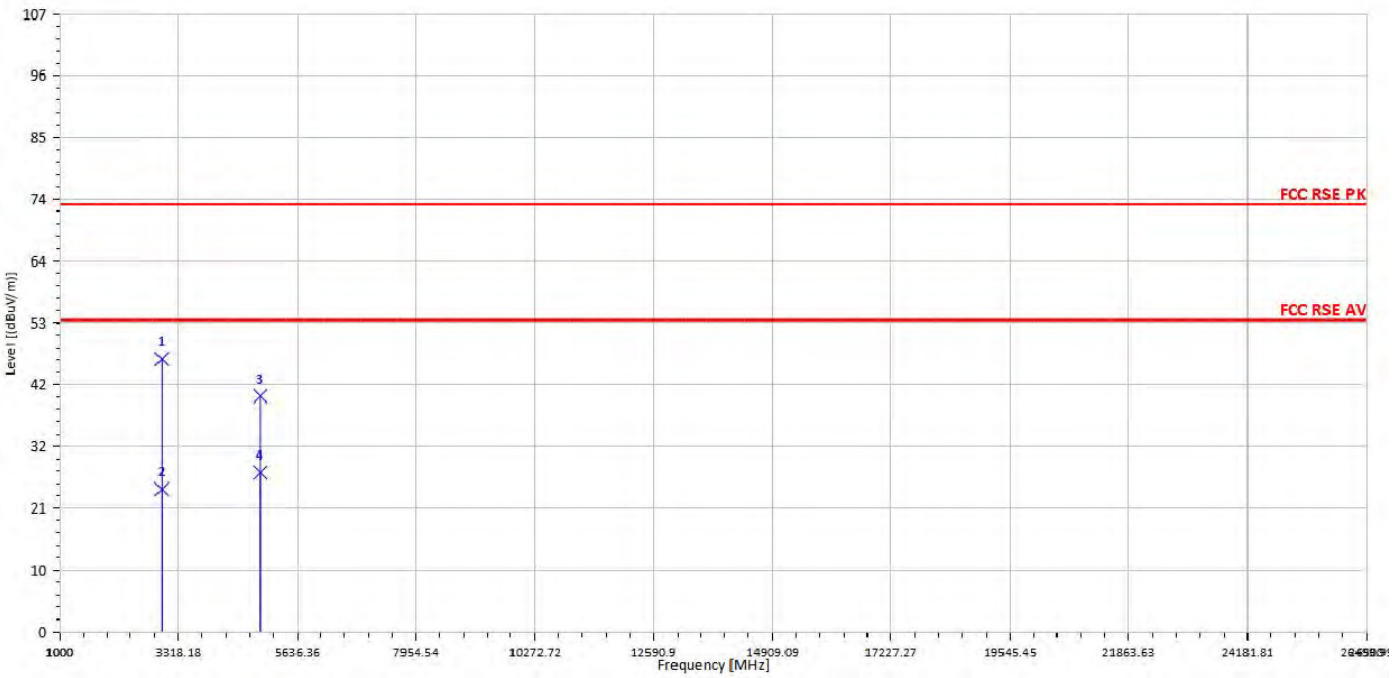
Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2995.00	S	Peak	52.42	-5.19	47.23	74	-26.77
2995.00	S	Average	29.89	-5.19	24.70	54	-29.30
4924.00	H	Peak	41.44	-0.62	40.82	74	-33.18
4924.00	H	Average	28.19	-0.62	27.57	54	-26.43

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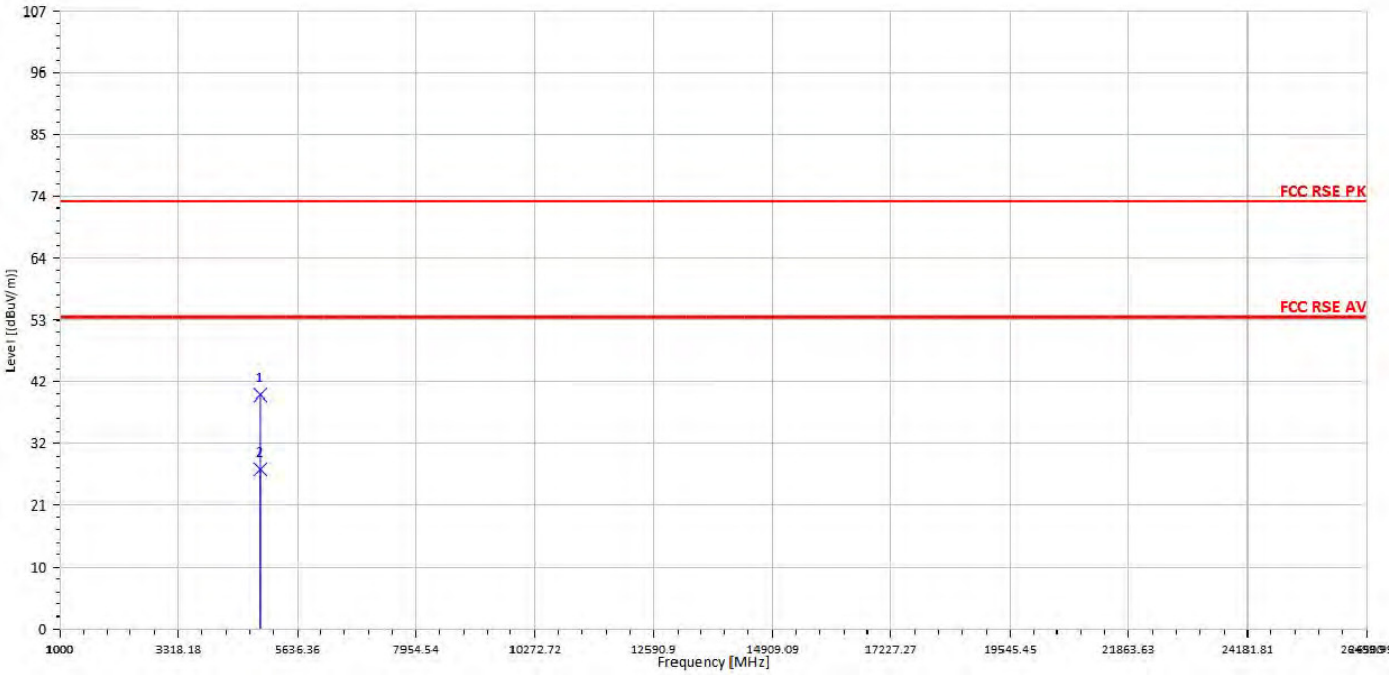
Operation Mode :	802.11g	Test Date :	2016/10/14
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	H	Peak	41.11	-0.62	40.49	74	-33.51
4924.00	H	Average	28.20	-0.62	27.58	54	-26.42

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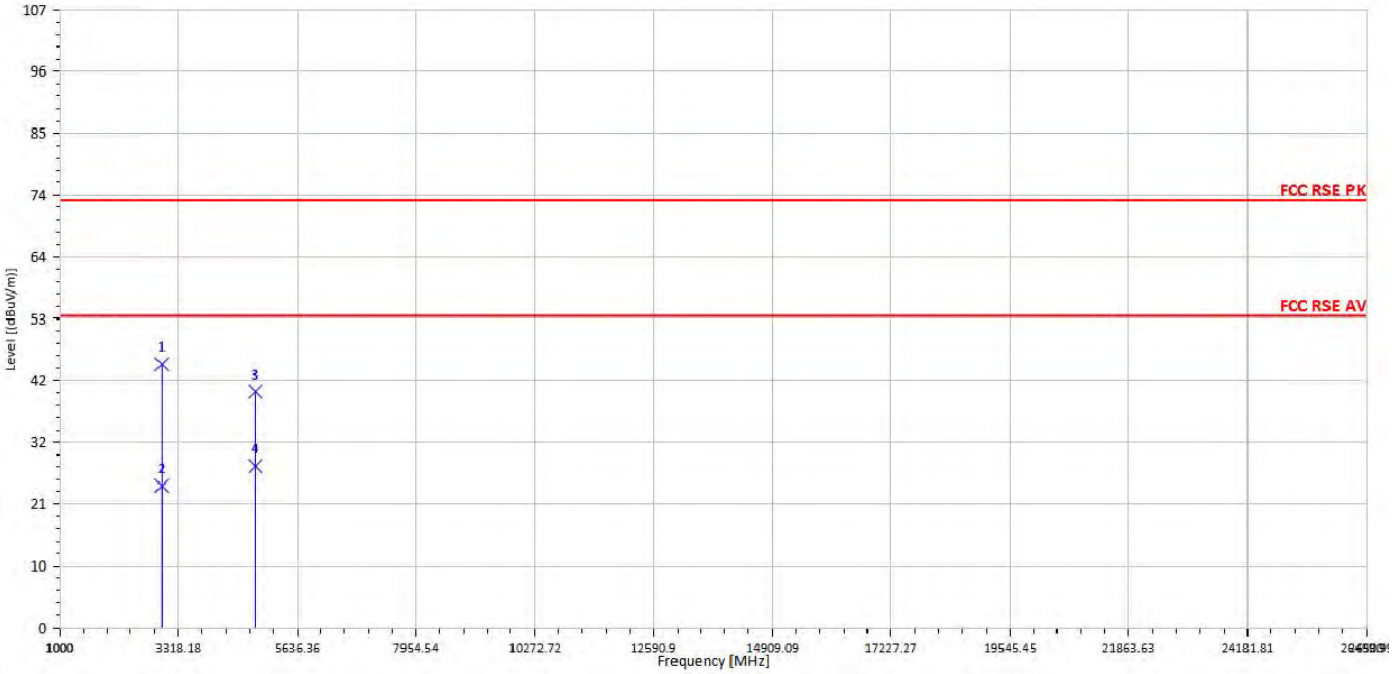
Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	2016/10/14
Fundamental Frequency :	2412 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	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2995.00	S	Peak	50.76	-5.19	45.57	74	-28.43
2995.00	S	Average	29.74	-5.19	24.55	54	-29.45
4824.00	H	Peak	41.86	-1.04	40.82	74	-33.18
4824.00	H	Average	29.00	-1.04	27.96	54	-26.04

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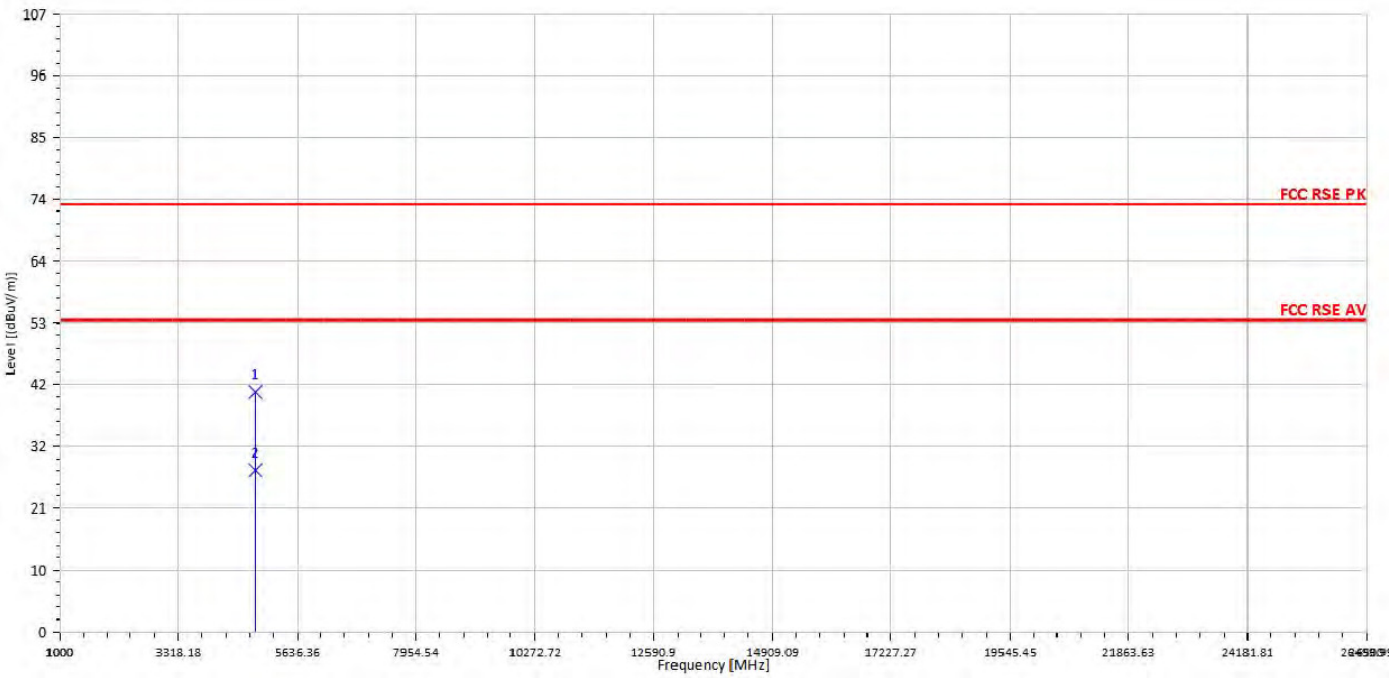
Operation Mode :	802.11n20	Test Date :	2016/10/14
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4824.00	H	Peak	42.51	-1.04	41.47	74	-32.53
4824.00	H	Average	28.98	-1.04	27.94	54	-26.06

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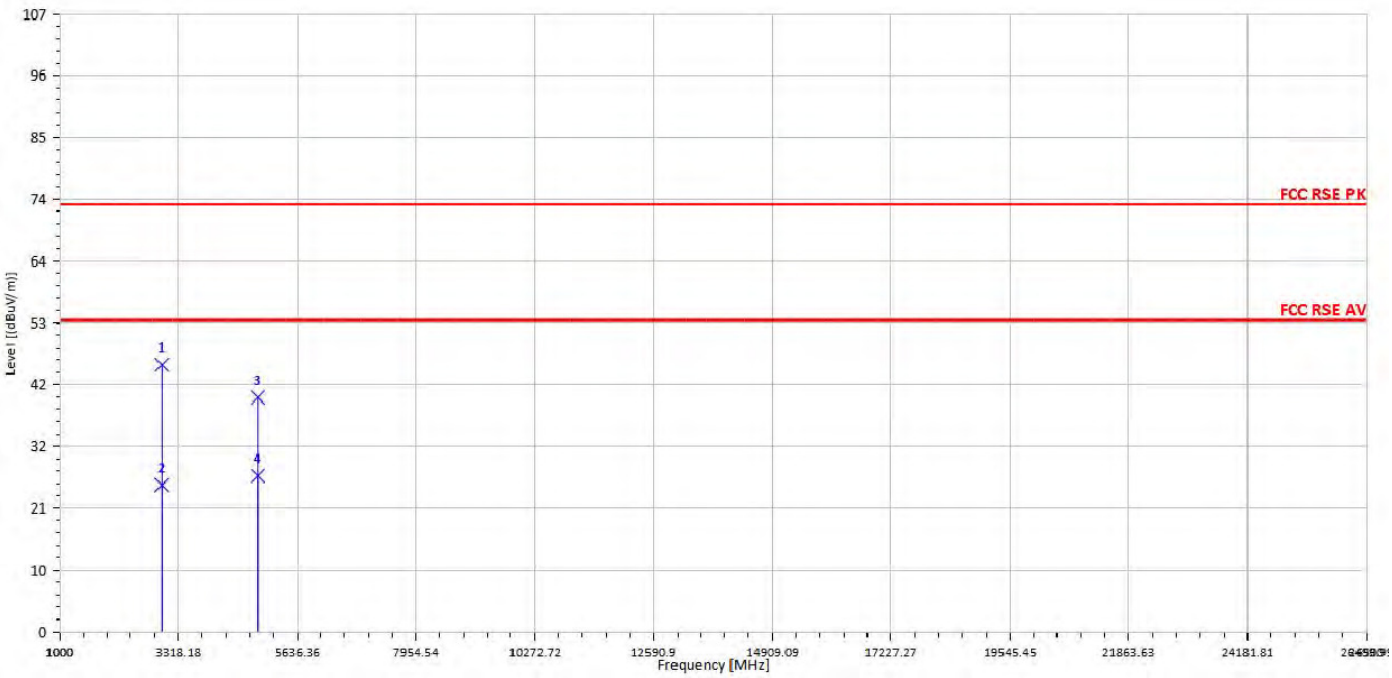
Operation Mode :	802.11n20	Test Date :	2016/10/14
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2995.00	S	Peak	51.39	-5.19	46.20	74	-27.80
2995.00	S	Average	30.61	-5.19	25.42	54	-28.58
4874.00	H	Peak	41.33	-0.75	40.58	74	-33.42
4874.00	H	Average	27.76	-0.75	27.01	54	-26.99

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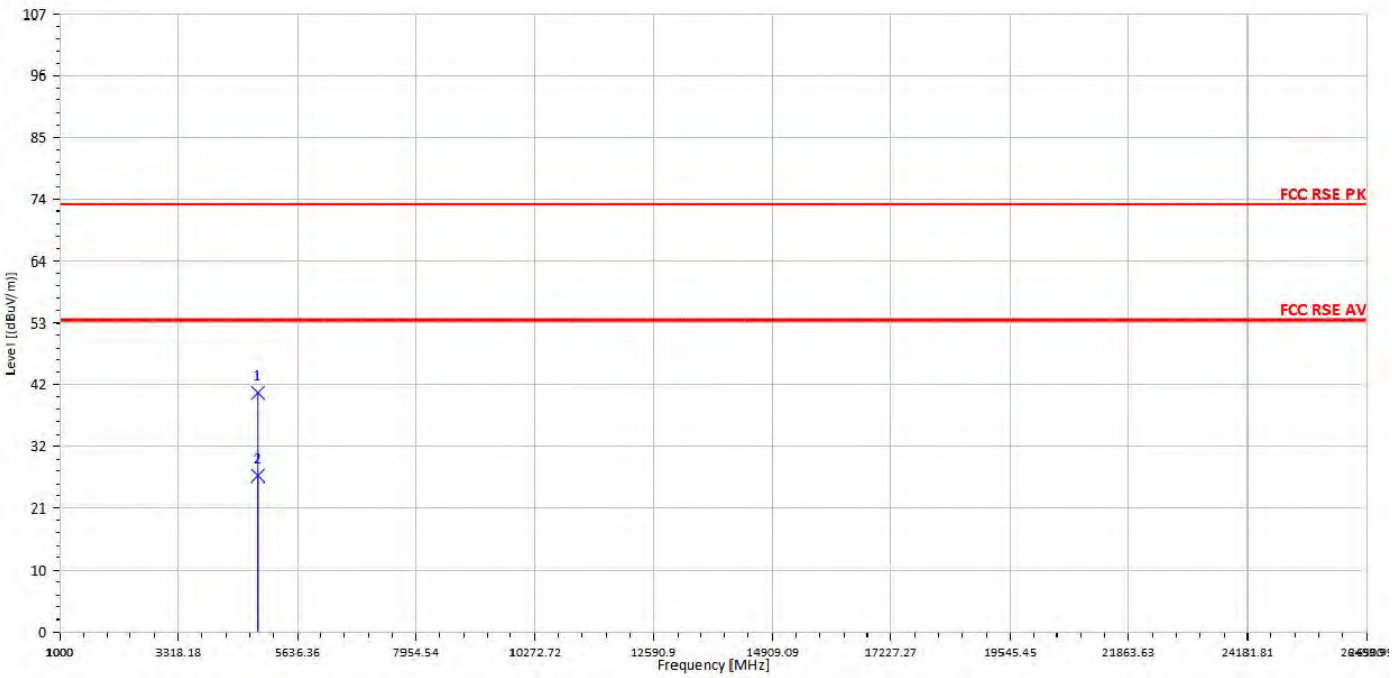
Operation Mode :	802.11n20	Test Date :	2016/10/14
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	H	Peak	42.10	-0.75	41.35	74	-32.65
4874.00	H	Average	27.76	-0.75	27.01	54	-26.99

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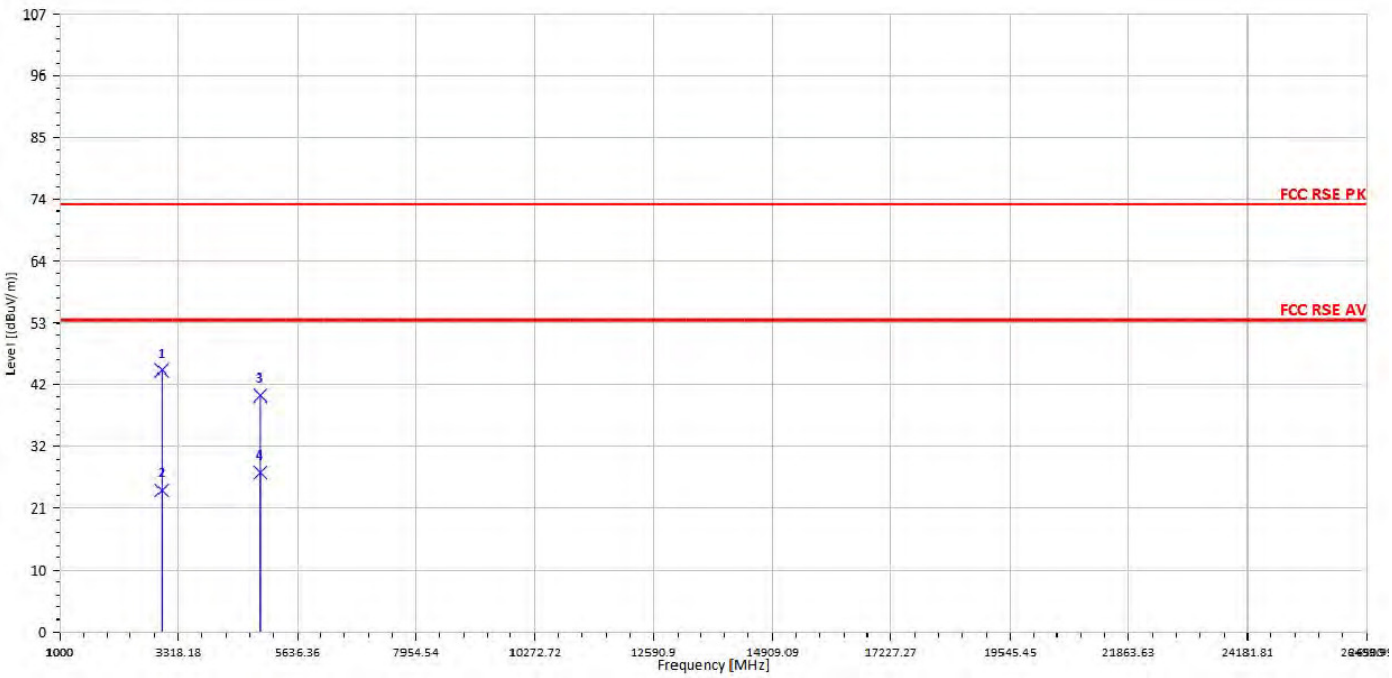
Operation Mode :	802.11n20	Test Date :	2016/10/14
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2995.00	S	Peak	50.47	-5.19	45.28	74	-28.72
2995.00	S	Average	29.71	-5.19	24.52	54	-29.48
4924.00	H	Peak	41.49	-0.62	40.87	74	-33.13
4924.00	H	Average	28.17	-0.62	27.55	54	-26.45

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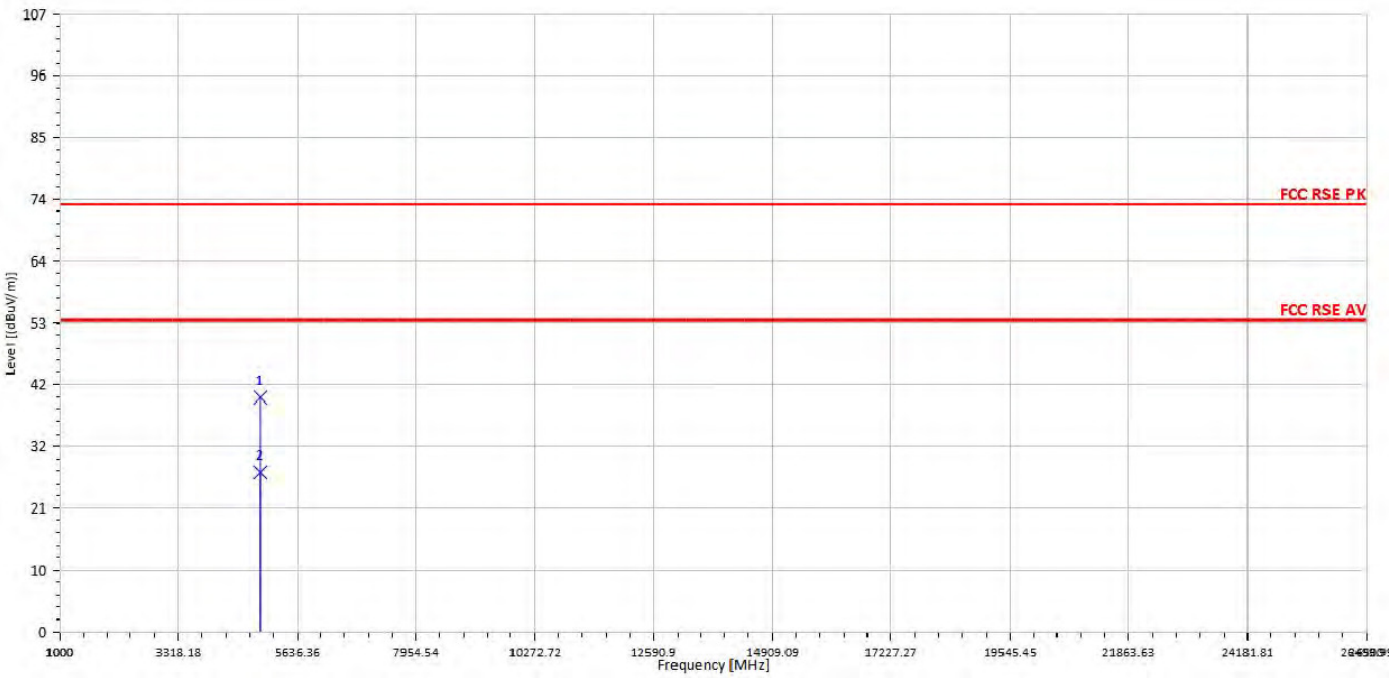
Operation Mode :	802.11n20	Test Date :	2016/10/14
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4924.00	H	Peak	41.20	-0.62	40.58	74	-33.42
4924.00	H	Average	28.19	-0.62	27.57	54	-26.43

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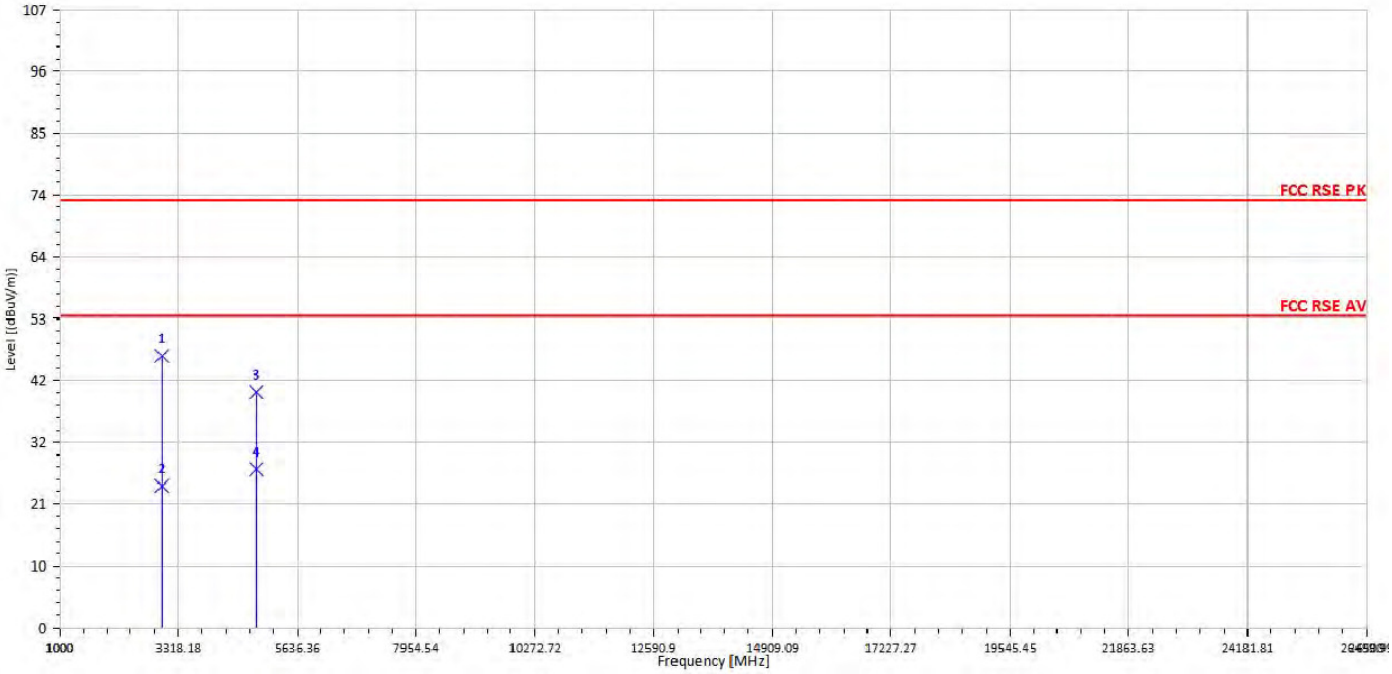
Radiated Spurious Emission Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	2016/10/14
Fundamental Frequency :	2422 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	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2995.00	S	Peak	52.25	-5.19	47.06	74	-26.94
2995.00	S	Average	29.72	-5.19	24.53	54	-29.47
4844.00	H	Peak	41.66	-0.92	40.73	74	-33.27
4844.00	H	Average	28.35	-0.92	27.43	54	-26.57

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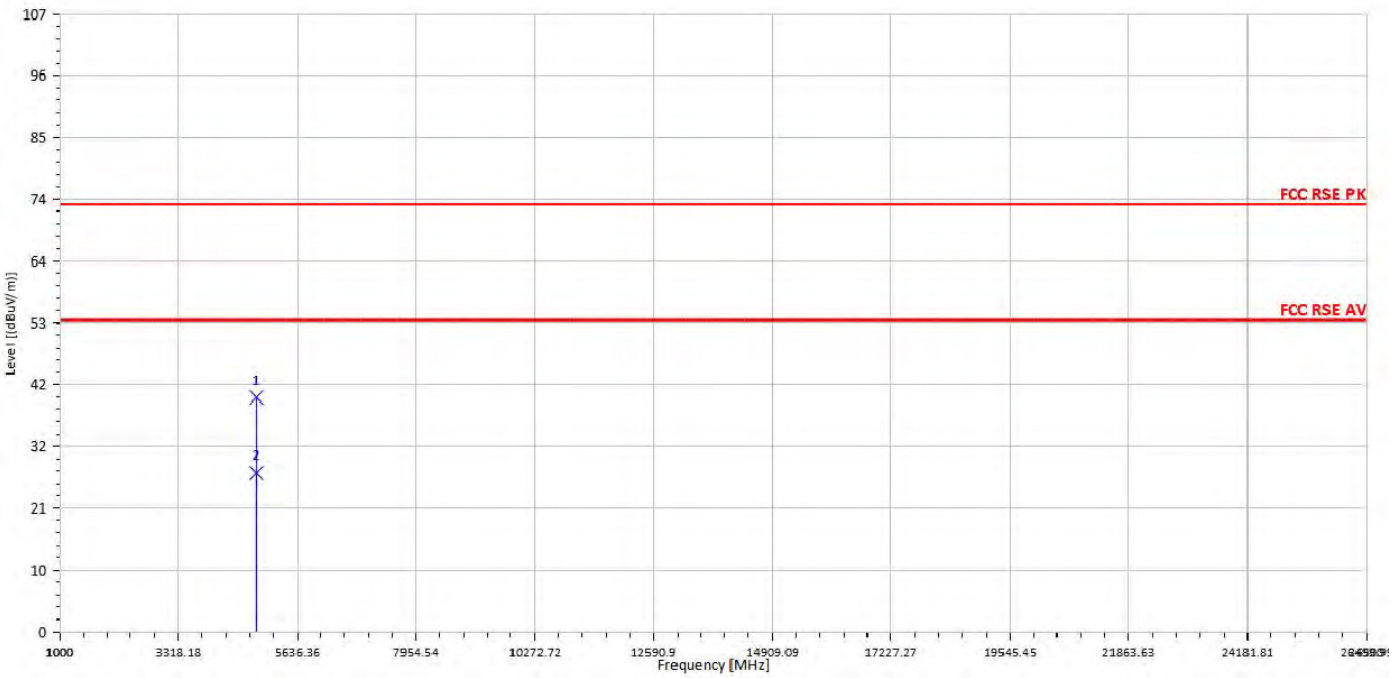
Operation Mode :	802.11n40	Test Date :	2016/10/14
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4844.00	H	Peak	41.50	-0.92	40.57	74	-33.43
4844.00	H	Average	28.38	-0.92	27.46	54	-26.54

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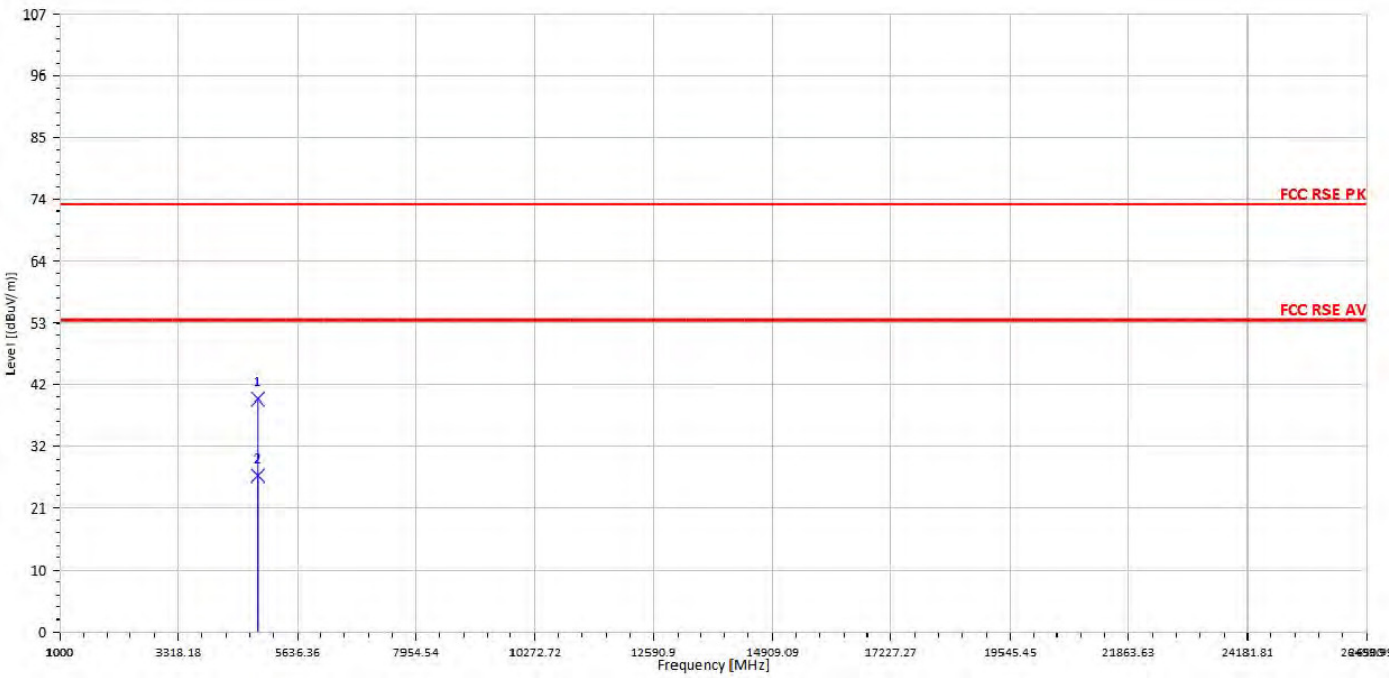
Operation Mode :	802.11n40	Test Date :	2016/10/14
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4874.00	H	Peak	41.05	-0.75	40.30	74	-33.70
4874.00	H	Average	27.76	-0.75	27.02	54	-26.98

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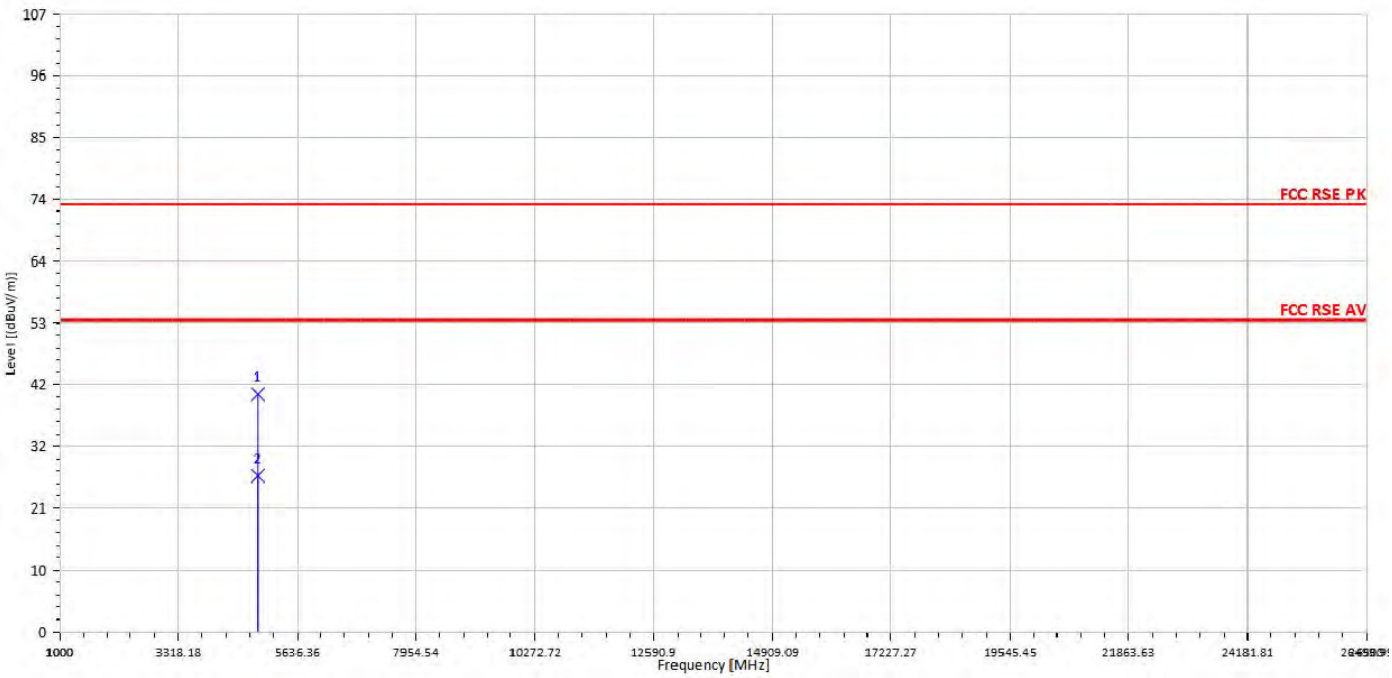
Operation Mode :	802.11n40	Test Date :	2016/10/14
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	H	Peak	41.84	-0.75	41.09	74	-32.91
4874.00	H	Average	27.74	-0.75	26.99	54	-27.01

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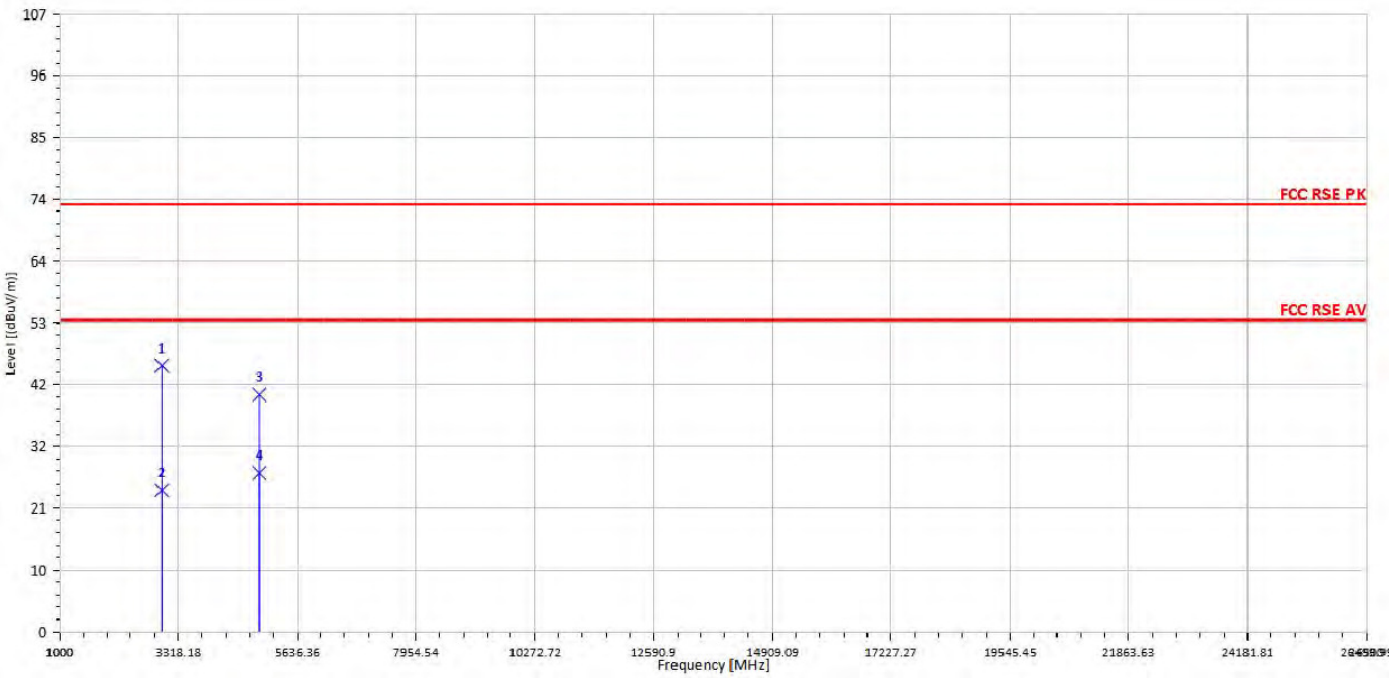
Operation Mode :	802.11n40	Test Date :	2016/10/14
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2995.00	S	Peak	51.26	-5.19	46.07	74	-27.93
2995.00	S	Average	29.74	-5.19	24.55	54	-29.45
4904.00	H	Peak	41.64	-0.60	41.05	74	-32.95
4904.00	H	Average	28.06	-0.60	27.46	54	-26.54

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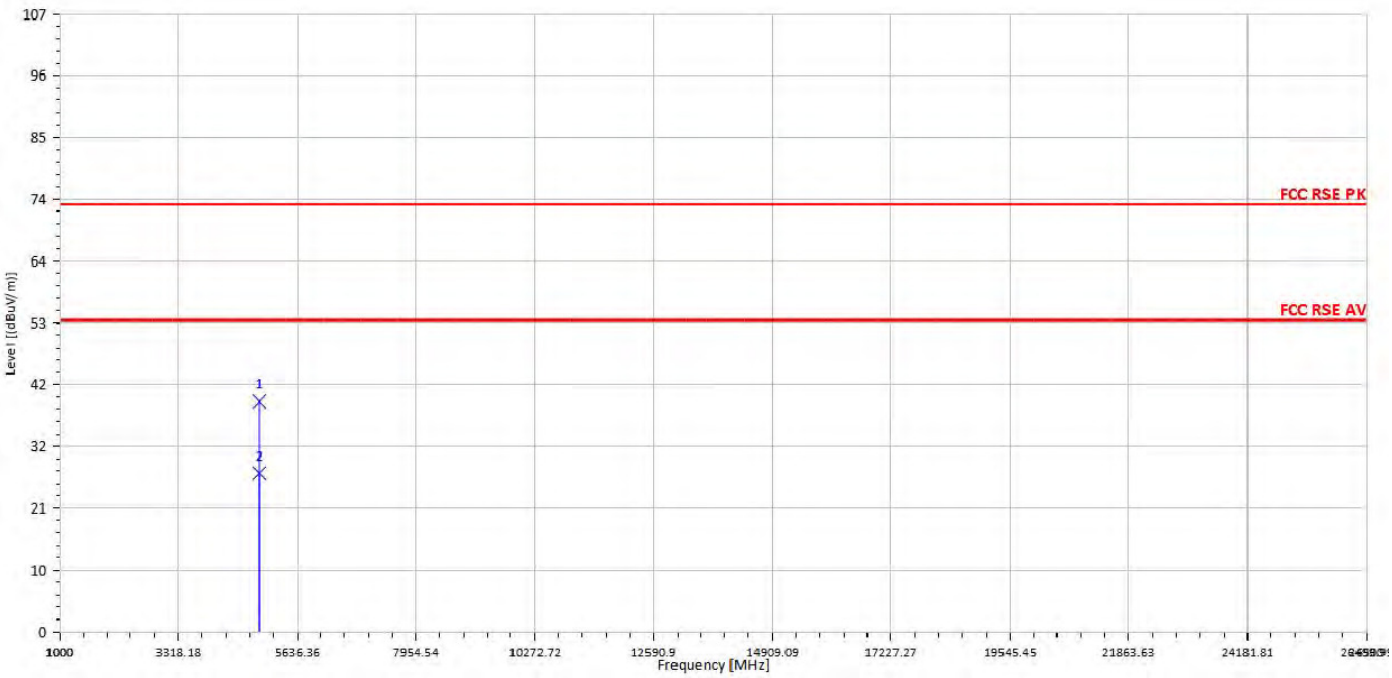
Operation Mode :	802.11n40	Test Date :	2016/10/14
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4904.00	H	Peak	40.47	-0.60	39.87	74	-34.13
4904.00	H	Average	28.03	-0.60	27.43	54	-26.57

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12 PEAK POWER SPECTRAL DENSITY

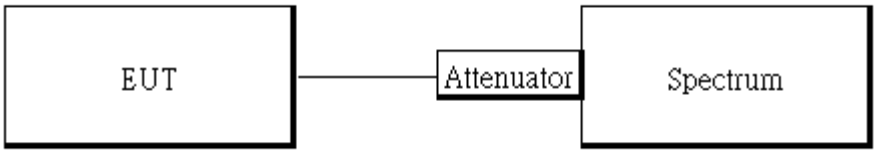
12.1 Standard Applicable

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

12.2 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
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

12.3 Test Set-up



12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz. & the VBW = 10 kHz
5. For defining Restricted Band Edge Limit:
   Set the RBW = 100kHz & VBW = 300 kHz.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.

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12.5 Measurement Result

POWER DENSITY 802.11b MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-4.98	8.00	PASS
2437	-3.64	8.00	PASS
2462	-3.91	8.00	PASS

POWER DENSITY 802.11g MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-8.26	8.00	PASS
2437	-8.23	8.00	PASS
2462	-9.62	8.00	PASS

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-12.01	8.00	PASS
2437	-10.91	8.00	PASS
2462	-10.86	8.00	PASS

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2422	-14.00	8.00	PASS
2437	-14.90	8.00	PASS
2452	-14.79	8.00	PASS

**Refer to next page for plots*

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802.11b

Power Spectral Density Test Plot (CH-Low)

Power Spectral Density Test Plot (CH-Mid)

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Power Spectral Density Test Plot (CH-High)

802.11g

Power Spectral Density Test Plot (CH-Low)

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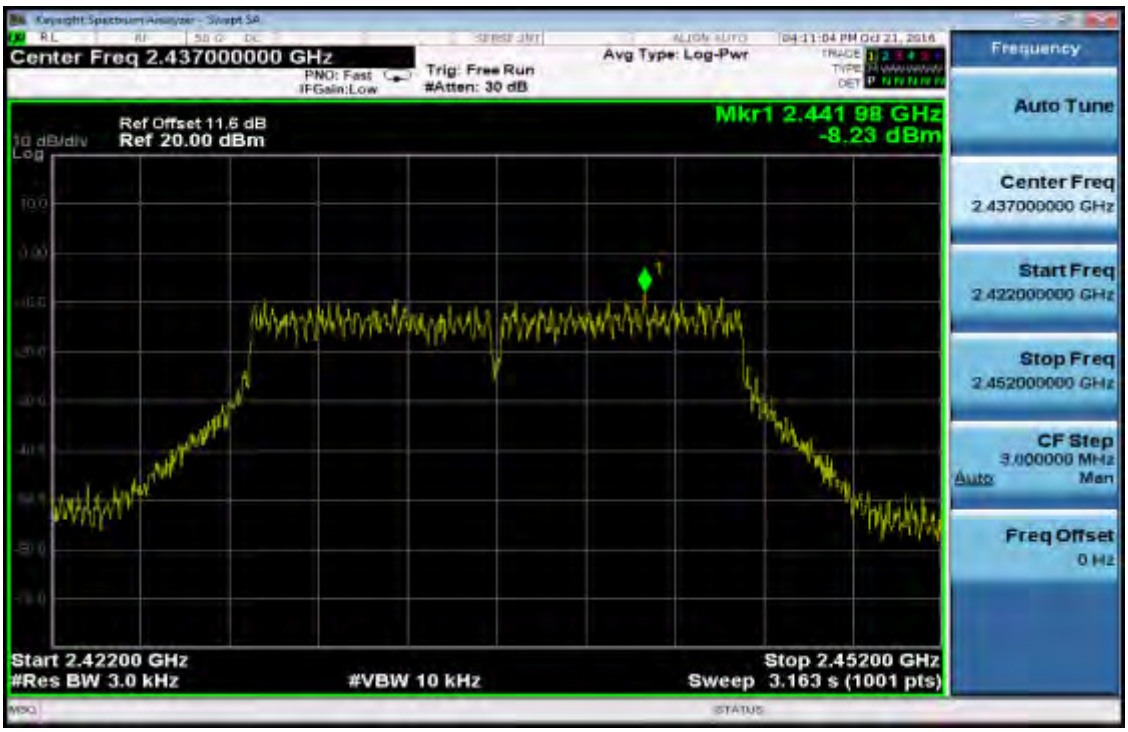
Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)

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802.11n_HT20

Power Spectral Density Test Plot (CH-Low)

Power Spectral Density Test Plot (CH-Mid)

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Power Spectral Density Test Plot (CH-High)

802.11n_HT40

Power Spectral Density Test Plot (CH-Low)

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Power Spectral Density Test Plot (CH-Mid)

Power Spectral Density Test Plot (CH-High)

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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

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

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

13.2 Antenna Connected Construction

An embedded-in antenna design is used.
The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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