

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT AND INDUSTRY CANADA RSS 247

OF

Product Name: WLAN 802.11b/g/n 2T2R Module

Brand Name: Foxconn

Model No.: WFU032

Model Difference: N/A

FCC ID: RX3-WFU032

IC: 2878F-WFU032

Report No.: E2/2017/30026

Issue Date: Mar. 27, 2017

FCC Rule Part: §15.247, Cat: DTS

IC Rule Part: RSS-247 issue 2 Feb. 2017

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VERIFICATION OF COMPLIANCE

Applicant: Hon Hai Precision Industry Co., Ltd.
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33859, Taiwan (R.O.C)

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Model Difference: N/A

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Report Number: E2/2017/30026

Date of test: Mar. 08, 2017 ~ Mar. 27, 2017

Date of EUT Received: Mar. 08, 2017

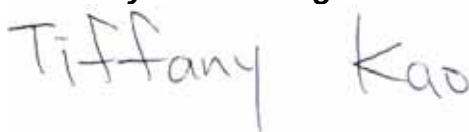
We hereby certify that:

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:**Date:**

Mar. 27, 2017

Jerry Lu / Sr. Engineer**Prepared By:****Date:**

Mar. 27, 2017

Tiffany Kao / Clerk**Approved By:****Date:**

Mar. 27, 2017

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2017/30026	Rev.00	Initial creation of document	Mar. 27, 2017

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	WLAN 802.11b/g/n 2T2R Module
Brand Name:	Foxconn
Model No.:	WFU032
Model Difference:	N/A
Product SW/HW version:	N/A / MP
Radio SW/HW version:	N/A / N/A
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Power Supply:	5.0Vdc from USB port.

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WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power / (EIRP)	Type of Emission	Modulation Technology
11b/g	2412-2462	11	b: 16.49dBm b: 18.40dBm (EIRP) g: 23.46dBm g: 19.28dBm (EIRP)	b: 14M6G1D g:16M6D1D	DSSS, OFDM
11n	HT 20 2412-2462	11	HT20:24.45dBm (MIMO Chain 0+1) HT20:22.31dBm (MIMO Chain 0+1) (EIRP)	HT20:17M8D1D	OFDM
11n	HT 40 2422-2452	7	HT40: 25.31dBm (MIMO Chain 0+1) HT40: 22.44dBm (MIMO Chain 0+1) (EIRP)	HT40:36M2D1D	OFDM
Antenna Designation		PIFA Antenna 1. Main Part No.: W-M-D-B-N-0-0100, Supplier: Foxconn Gain: 3.82dBi Part No.: W-M-D-B-N-0-0550, Supplier: Foxconn Gain: 2.695dBi Part No.: W-M-D-B-N-0-0970, Supplier: Foxconn Gain: 1.645dBi 2. Aux Part No.: W-M-D-B-N-0-0100, Supplier: Foxconn Gain: 3.82dBi Part No.: W-M-D-B-N-0-0800, Supplier: Foxconn Gain: 2.07dBi Part No.: W-M-D-B-N-0-1150, Supplier: Foxconn Gain: 1.195dBi			
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 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300Mbps			

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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

FCC KDB 662911 D01 Multiple Transmitter Output

Canada RSS-247 issue 2 Feb. 2017

Canada RSS-Gen issue 4 Nov. 2014

ANSI C63.10:2013

Note:

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

1.3 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

Canada Registration Number: 4620A-5.

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 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 0.9dB, and 10dB attenuator (SISO) and cable loss 3.9dB, and 10dB attenuator (MIMO).

Offset:

SISO mode offset = RF cable loss (dB)+ attenuation factor(dB) =10.9(dB)

MIMO mode offset = RF cable loss (dB)+ attenuation factor(dB)+ 10 log(N_{ANT}) dB =13.9(dB)

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2.5 Configuration of Tested System

Fig. 2-1 Conducted & Radiated Emission configuration

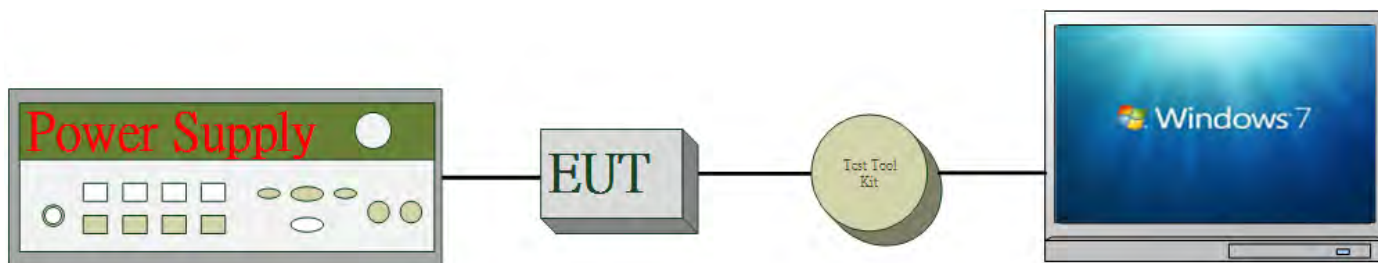


Fig. 2-2 Conduction Emission configuration

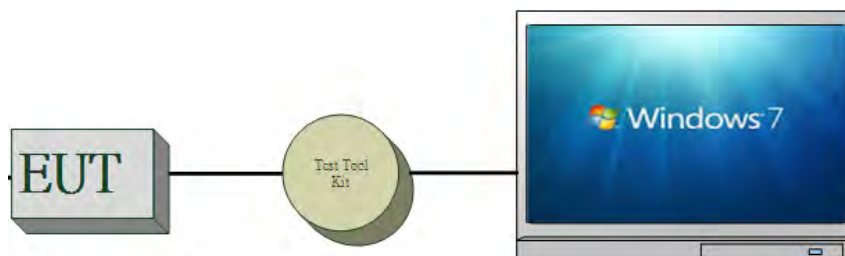


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	DRTU	N/A	N/A	N/A	N/A
2.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Unshielded
3.	Notebook	Lenovo	L420	LR-7HXZA	Shielded	Unshielded
4.	Test Kit	N/A	N/A	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules / IC Rules	Description Of Test	Result
§15.207(a) RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3) RSS-247 §5.4(4)	Peak Output Power	Compliant
§15.247(a)(2) RSS-247 §5.2 (1) RSS-Gen §6.6	6dB & 99% Emission Bandwidth	Compliant
§15.247(d) RSS-247 §5.5	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d) RSS-247 §5.5	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e) RSS-247 §5.2(2)	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	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz		
6	2437 MHz		
7	2442 MHz		

7 channels are provided for 802.11n HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422 MHz	8	2447 MHz
4	2427 MHz	9	2452 MHz
5	2432 MHz		
6	2437 MHz		
7	2442 MHz		

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 and receiving 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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	1,6,11	OFDM	6	Main

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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	1	Main
802.11g	1 to 11	1, 6, 11	OFDM	6	Main
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 8	MIMO

Note:

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

Pre-scanned was done on antenna set W-M-D-B-N-0-0100 & W-M-D-B-N-0-0550 & W-M-D-B-N-0-0970, and antenna set W-M-D-B-N-0-0800 & W-M-D-B-N-0-1150. The W-M-D-B-N-0-0100 results higher emission at 2.4GHz. Therefore, the completed set of measurement was done on antenna W-M-D-B-N-0-0100 to presented on this test report.

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	1	Main
802.11g	1 to 11	1, 6, 11	OFDM	6	Main
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 8	MIMO

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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	12/12/2016	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 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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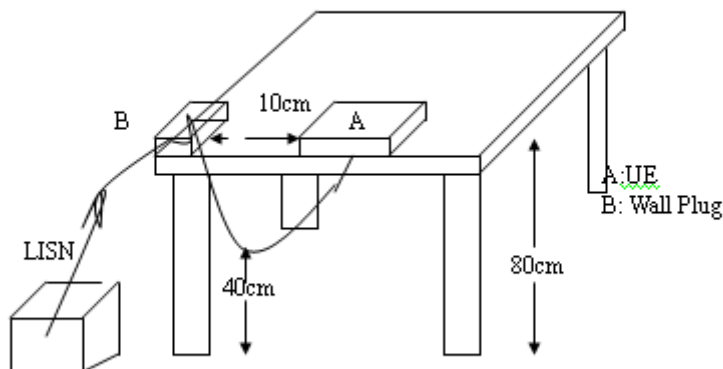
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6.4 Test SET-UP (Block Diagram of Configuration)



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 Date:	Mar. 21, 2017
Temperature:	20 °C	Humidity:	58 %	Test By:	Aken
				Phase:	L1

Site : Conduction Room

Phase: L1

Temperature: 19.5 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 51 %

Mode: 鴻海

Note:

Conducted Emission

File :Conduction

Data :#582

Date: 2017/3/21

Time: 下午 07:01:25



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1 *		0.1940	33.71	19.79	53.50	63.86	-10.36	QP	
2		0.1940	17.42	19.79	37.21	53.86	-16.65	AVG	
3		0.2500	27.23	19.82	47.05	61.76	-14.71	peak	
4		3.1900	21.03	20.10	41.13	56.00	-14.87	peak	
5		6.2660	14.52	20.26	34.78	60.00	-25.22	peak	
6		12.2500	20.35	20.67	41.02	60.00	-18.98	peak	
7		21.0260	19.81	21.56	41.37	60.00	-18.63	peak	

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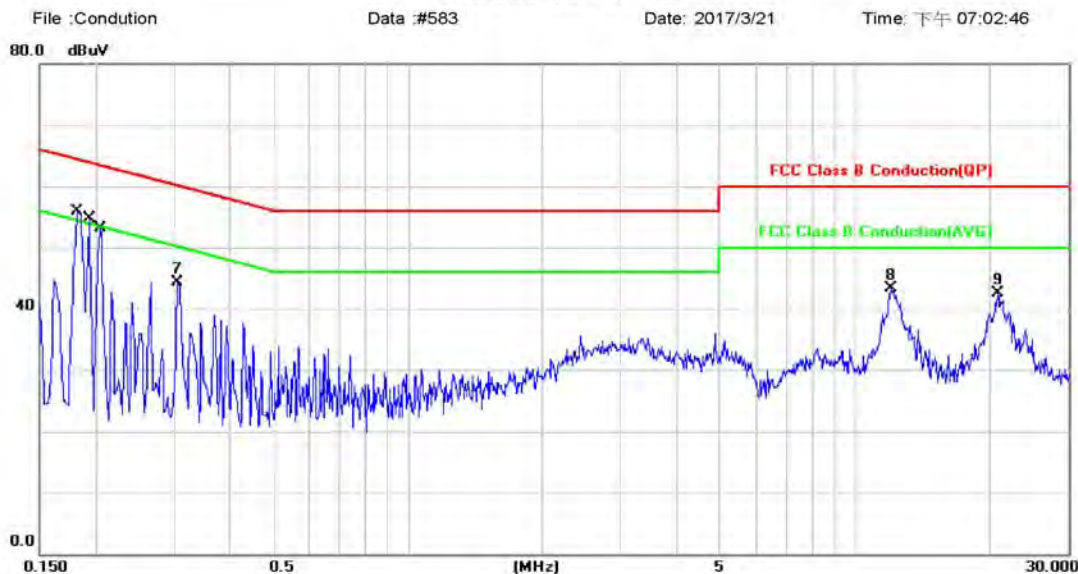
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Site : Conduction Room
 Limit: FCC Class B Conduction(QP)
 Mode: 鴻海
 Note:

Phase: N
 Power: AC 120V/60Hz

Temperature: 19.5 °C
 Humidity: 51 %

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1820	34.30	19.77	54.07	64.39	-10.32	QP	
2		0.1820	14.80	19.77	34.57	54.39	-19.82	AVG	
3		0.1940	32.20	19.77	51.97	63.86	-11.89	QP	
4		0.1940	15.44	19.77	35.21	53.86	-18.65	AVG	
5		0.2060	29.90	19.77	49.67	63.37	-13.70	QP	
6		0.2060	12.30	19.77	32.07	53.37	-21.30	AVG	
7		0.3060	24.40	19.83	44.23	60.08	-15.85	peak	
8		12.0380	23.03	20.31	43.34	60.00	-16.66	peak	
9		20.9180	21.61	20.89	42.50	60.00	-17.50	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:

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

Measurement Procedure:

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

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)
802.11b	98.25	0.08
802.11g	89.64	0.47
802.11n_20	80.87	0.92
802.11n_40	68.49	1.64

$$b = 98.25\%, g = 89.64\%, n_{ht_20} = 80.87\%, n_{ht40} = 68.49\%$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9825) = 0.08$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8964) = 0.47$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8087) = 0.92$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.6849) = 1.64$$

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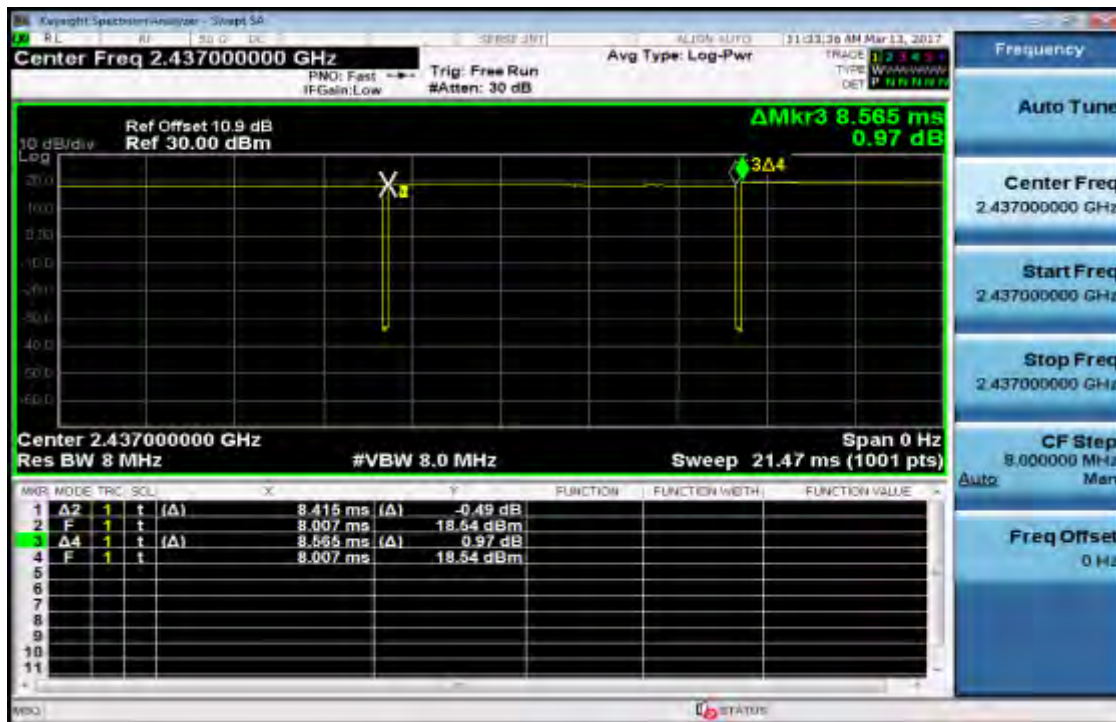
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

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 §5.4(4)

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. Except as provided in Section 5.4(5), the e.i.r.p. shall not exceed 4 W.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Main Antenna Gain: 3.82 dBi

Aux1 Antenna Gain: 3.82 dBi

Number Antenna: 2 pcs

Limit: 30 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 3.82+3.01=6.83dBi

Limit: 30dBm – (6.83– 6dBi)=29.17dBm

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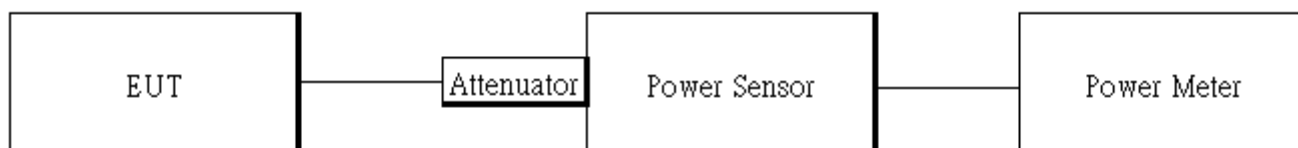
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8.2 Measurement Equipment Used

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	00100A1F1A195 C	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

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	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	1	16.35	43.15	1 Watt = 30.00 dBm	PASS
6	2437	1	16.45	44.16	1 Watt = 30.00 dBm	PASS
11	2462	1	16.49	44.57	1 Watt = 30.00 dBm	PASS
802.11b Main						
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (dBm)	Limit	RESULT
1	2412	1	14.35	27.23	1 Watt = 30.00 dBm	PASS
6	2437	1	14.37	27.35	1 Watt = 30.00 dBm	PASS
11	2462	1	14.58	28.71	1 Watt = 30.00 dBm	PASS

802.11g Main						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	6	23.06	202.30	1 Watt = 30.00 dBm	PASS
6	2437	6	23.15	206.54	1 Watt = 30.00 dBm	PASS
11	2462	6	23.46	221.82	1 Watt = 30.00 dBm	PASS
802.11g Main						
CH	Freq. (MHz)	Data Rate	Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit	RESULT
1	2412	6	14.92	31.05	1 Watt = 30.00 dBm	PASS
6	2437	6	14.97	31.41	1 Watt = 30.00 dBm	PASS
11	2462	6	15.46	35.16	1 Watt = 30.00 dBm	PASS

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802.11n_HT20M MIMO

CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
1	2412	MCS8	21.64	21.22	24.45	278.32	1 Watt = 29.17 dBm	PASS
6	2437	MCS8	21.35	21.30	24.34	271.35	1 Watt = 29.17 dBm	PASS
11	2462	MCS8	21.12	21.01	24.08	255.60	1 Watt = 29.17 dBm	PASS

802.11n_HT20M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
1	2412	MCS8	12.62	12.31	15.48	35.30	1 Watt = 29.17 dBm	PASS
6	2437	MCS8	12.22	12.32	15.28	33.73	1 Watt = 29.17 dBm	PASS
11	2462	MCS8	12.52	12.31	15.43	34.89	1 Watt = 29.17 dBm	PASS

802.11n_HT40M MIMO

CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
3	2422	MCS8	22.19	22.04	25.13	325.53	1 Watt = 29.17 dBm	PASS
6	2437	MCS8	22.17	22.29	25.24	334.25	1 Watt = 29.17 dBm	PASS
9	2452	MCS8	22.35	22.24	25.31	339.29	1 Watt = 29.17 dBm	PASS

802.11n_HT40M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
3	2422	MCS8	12.87	12.31	15.61	36.39	1 Watt = 29.17 dBm	PASS
6	2437	MCS8	12.61	12.35	15.49	35.42	1 Watt = 29.17 dBm	PASS
9	2452	MCS8	12.66	12.43	15.56	35.95	1 Watt = 29.17 dBm	PASS

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

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EIRP Measurement:

802.11b Main								
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit		
1	2412	1	14.35	3.82	18.17	4W=	36	dBm
6	2437	1	14.37	3.82	18.19	4W=	36	dBm
11	2462	1	14.58	3.82	18.40	4W=	36	dBm
								PASS

802.11g Main								
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit		
1	2412	6	14.92	3.82	18.74	4W=	36	dBm
6	2437	6	14.97	3.82	18.79	4W=	36	dBm
11	2462	6	15.46	3.82	19.28	4W=	36	dBm
								PASS

802.11n_HT20M MIMO											
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Total Peak Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit		
			CH 0	CH 1							
1	2412	MCS8	12.62	12.31	15.48	35.30	6.83	22.31	4W=	36	dBm
6	2437	MCS8	12.22	12.32	15.28	33.73	6.83	22.11	4W=	36	dBm
11	2462	MCS8	12.52	12.31	15.43	34.89	6.83	22.26	4W=	36	dBm

802.11n_HT40M MIMO											
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Total Peak Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit		
			CH 0	CH 1							
3	2422	MCS8	12.87	12.31	15.61	36.39	6.83	22.44	4W=	36	dBm
6	2437	MCS8	12.61	12.35	15.49	35.42	6.83	22.32	4W=	36	dBm
9	2452	MCS8	12.66	12.43	15.56	35.95	6.83	22.39	4W=	36	dBm

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

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9 6DB & 99% BANDWIDTH MEASUREMENT

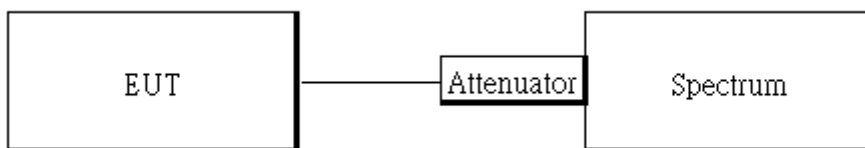
9.1 Standard Applicable

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	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017

9.3 Test Set-up



9.4 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- For 6dB Bandwidth:
Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=peak, Sweep=auto.
- Mark the peak frequency and -6dB (upper and lower) frequency.
- For 99% Bandwidth:
Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = 30M/50MHz, Detector=Sample, Sweep=auto.
- Turn on the 99% bandwidth function, max reading.
- Repeat above procedures until all frequency of interest measured was complete.

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9.5 Measurement Result

6dB Bandwidth

802.11b Main

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	10035	> 500	PASS
2437	10051	> 500	PASS
2462	10047	> 500	PASS

802.11g Main

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15140	> 500	PASS
2437	15130	> 500	PASS
2462	15130	> 500	PASS

802.11_n_HT20 Main

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15120	> 500	PASS
2437	15150	> 500	PASS
2462	15140	> 500	PASS

802.11_n_HT20 Aux1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15150	> 500	PASS
2437	15140	> 500	PASS
2462	15120	> 500	PASS

802.11_n_HT40 Main

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	30580	> 500	PASS
2437	35090	> 500	PASS
2452	35150	> 500	PASS

802.11_n_HT40 Aux1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35110	> 500	PASS
2437	35040	> 500	PASS
2452	35120	> 500	PASS

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99% Bandwidth

802.11b Main	
Freq. (MHz)	99% BW (MHz)
2412	14.589
2437	14.487
2462	14.497

802.11g Main	
Freq. (MHz)	99% BW (MHz)
2412	16.584
2437	16.539
2462	16.339

802.11n_HT20M Main		802.11n_HT20M Aux1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	17.755	2412	17.640
2437	17.448	2437	17.833
2462	17.651	2462	17.719

802.11n_HT40M Main		802.11n_HT40M Aux1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2422	36.053	2422	36.100
2437	36.083	2437	36.162
2452	36.097	2452	35.932

**Refer to next page for plots*

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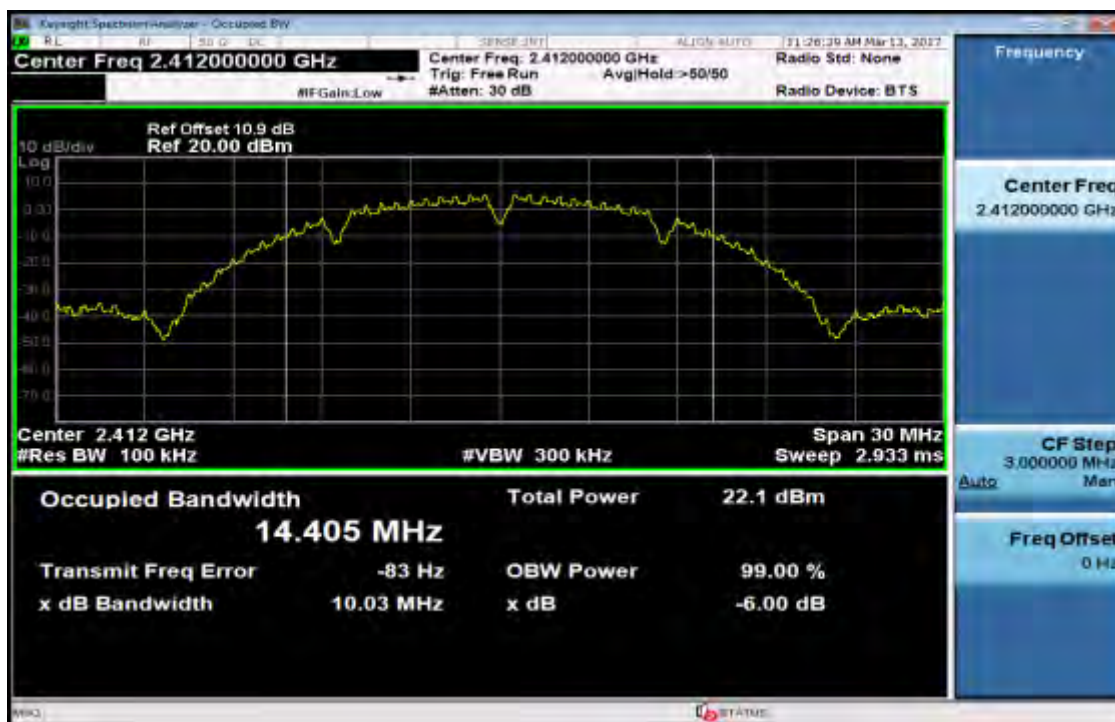
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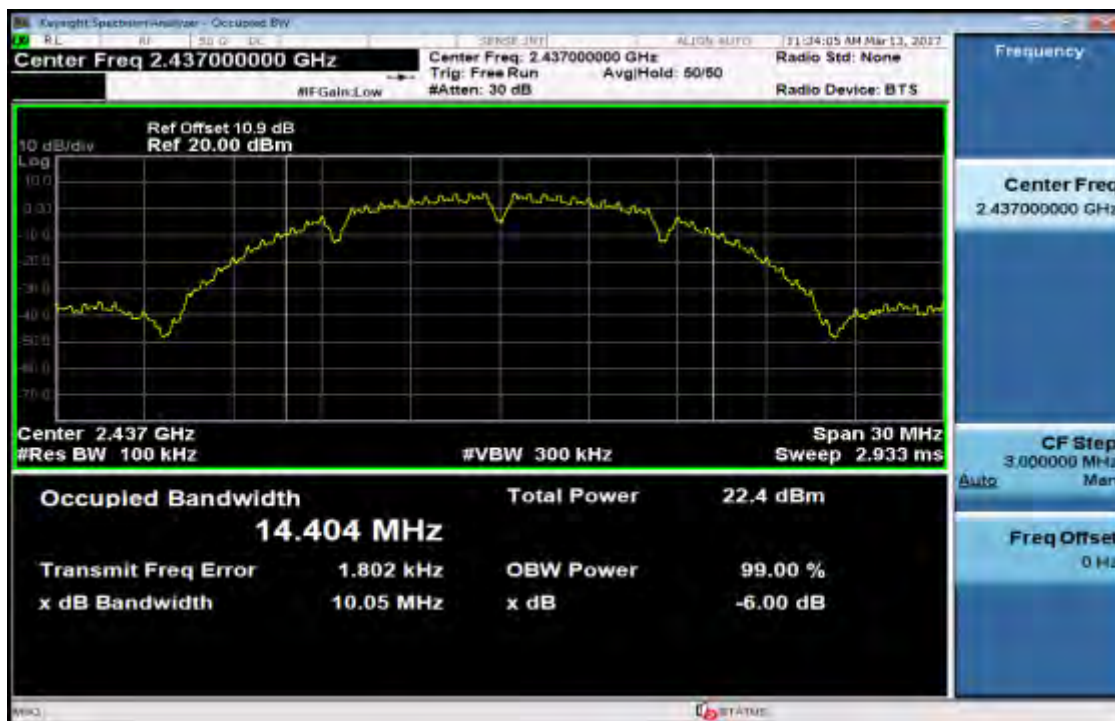
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802.11b (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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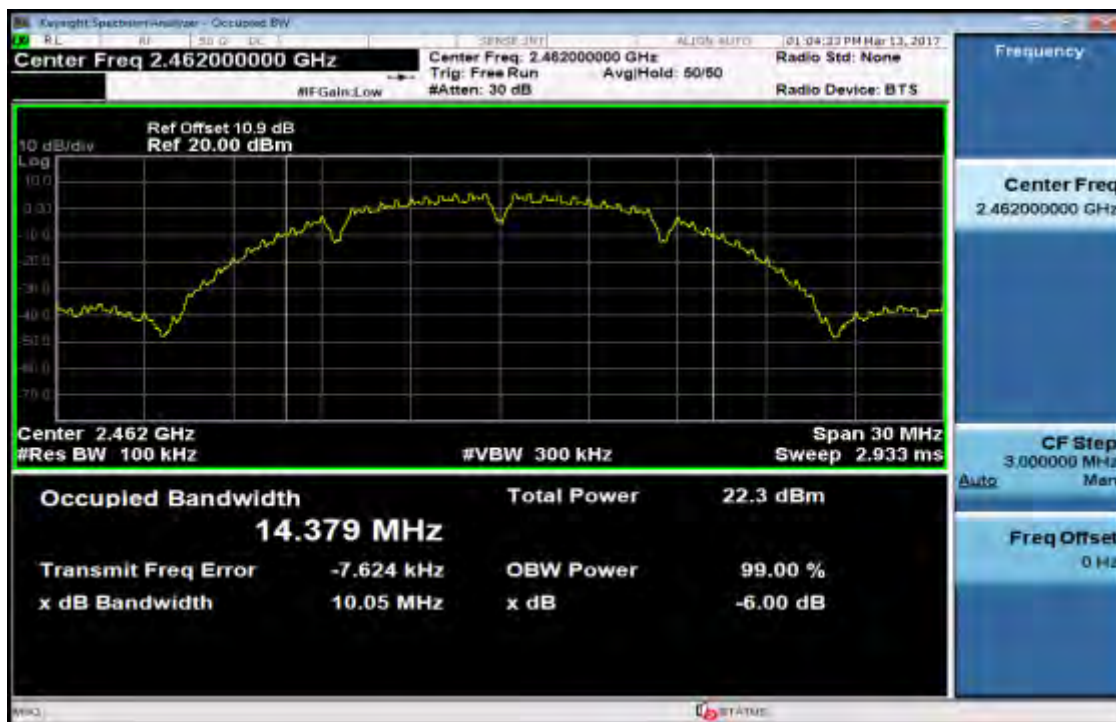
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6dB Band Width Test Data CH-High



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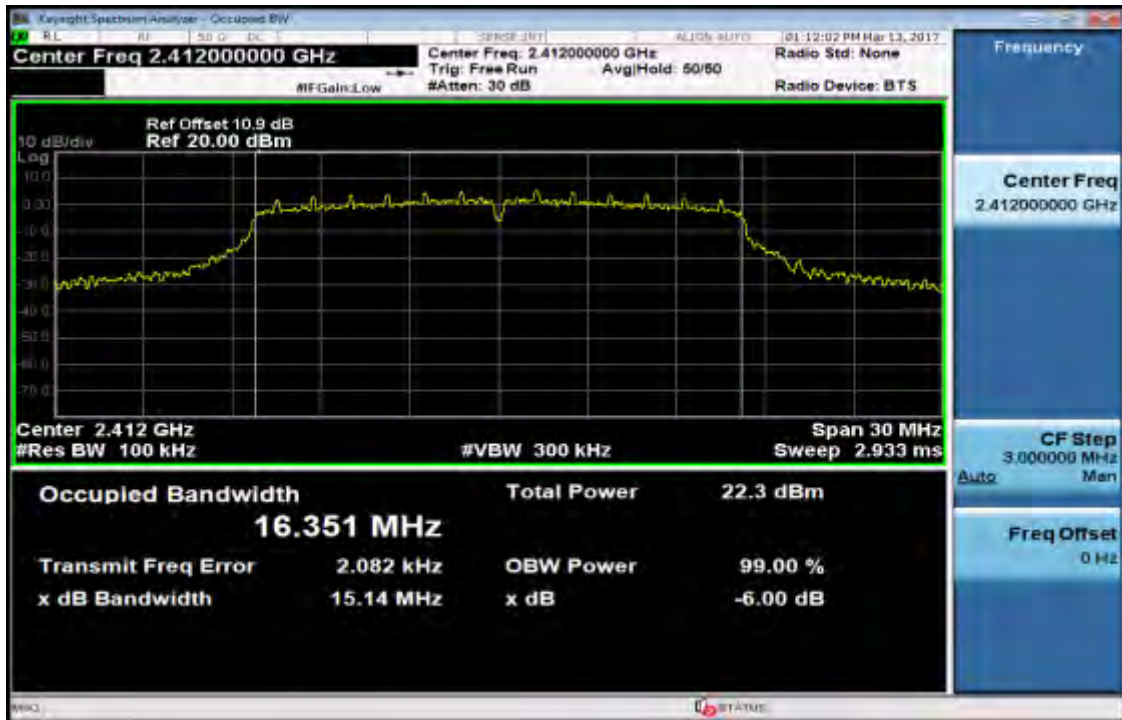
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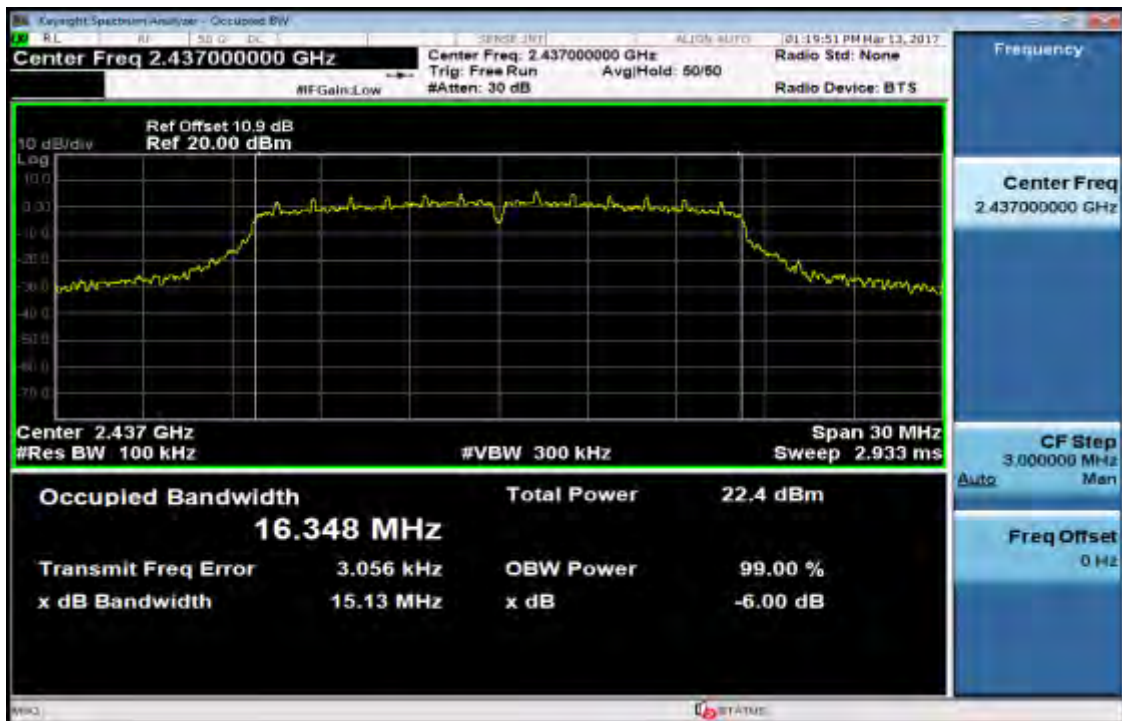
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802.11g (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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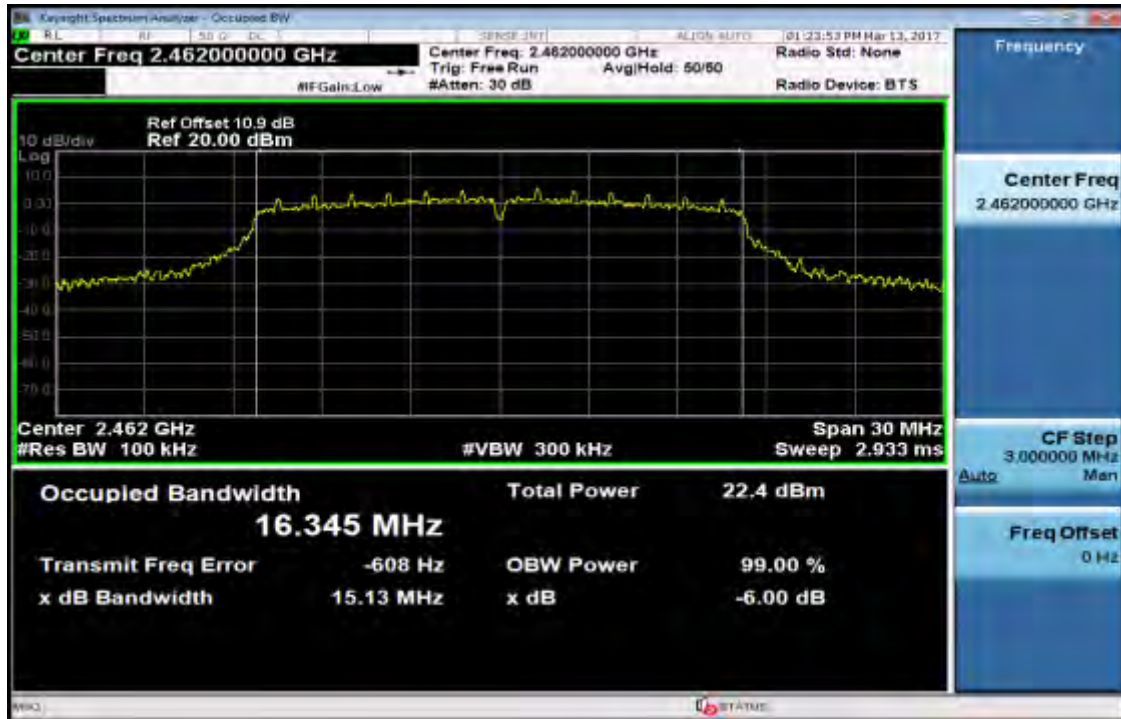
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6dB Band Width Test Data CH-High



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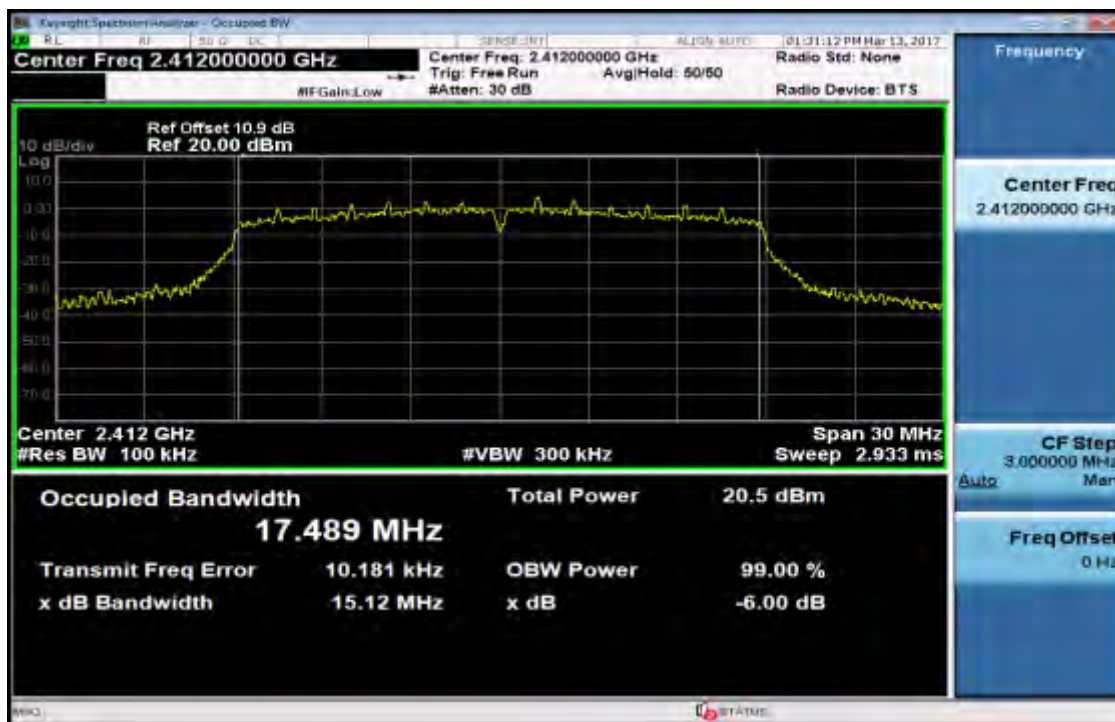
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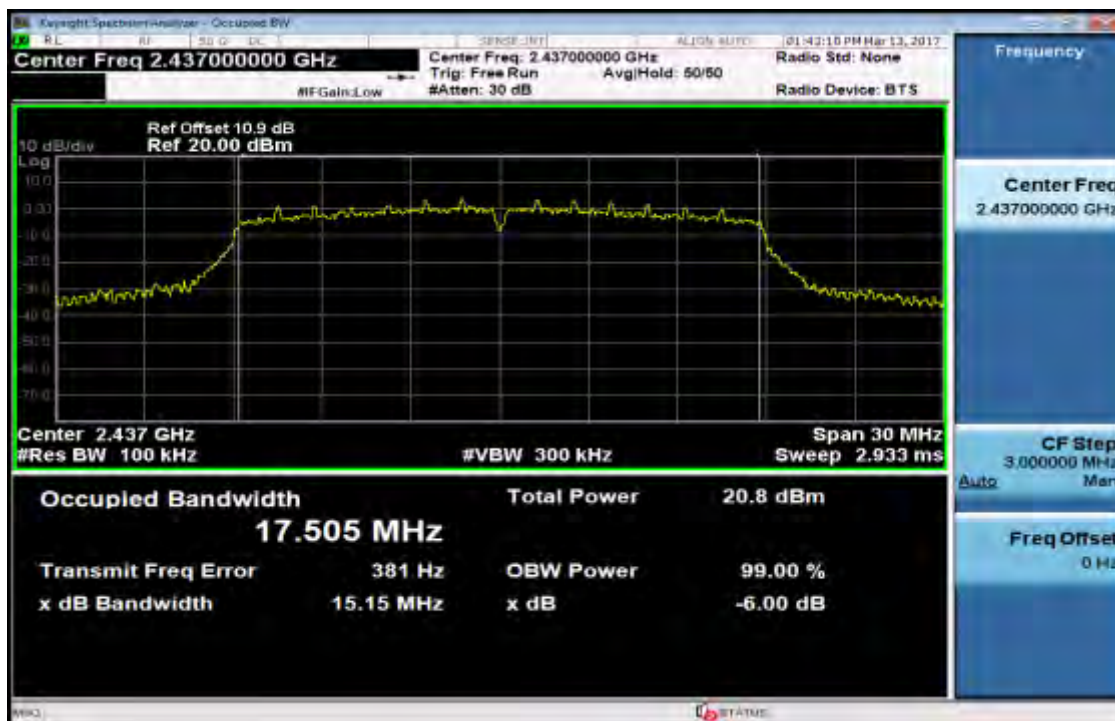
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802.11n_20M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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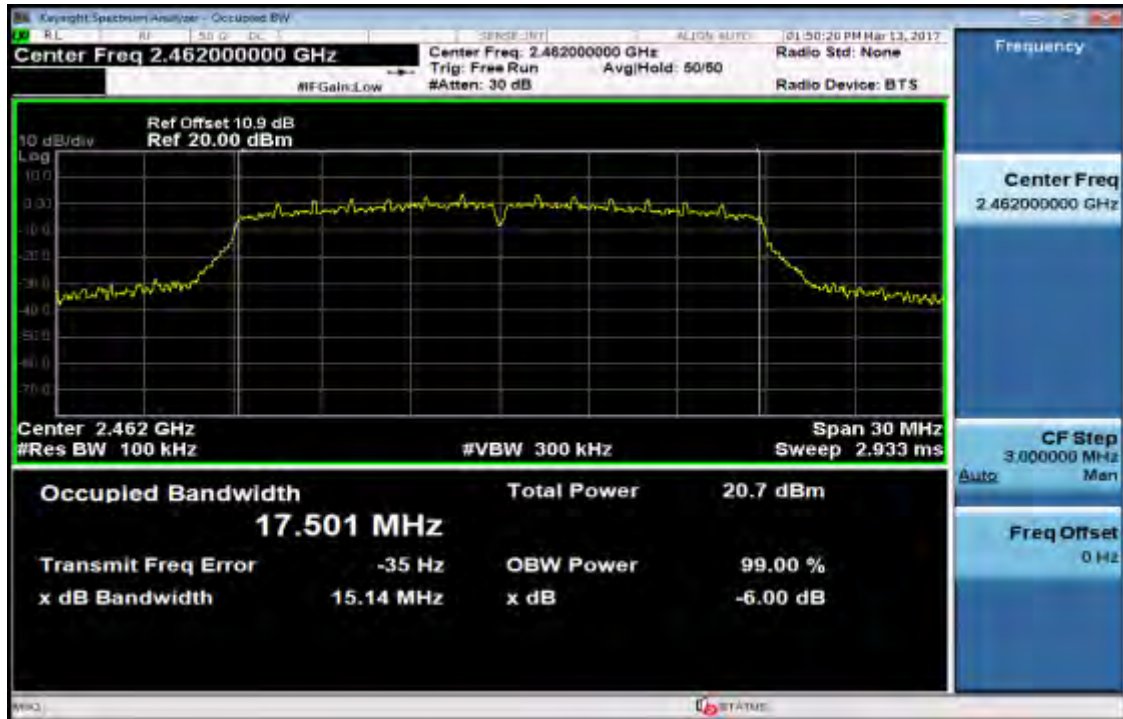
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6dB Band Width Test Data CH-High



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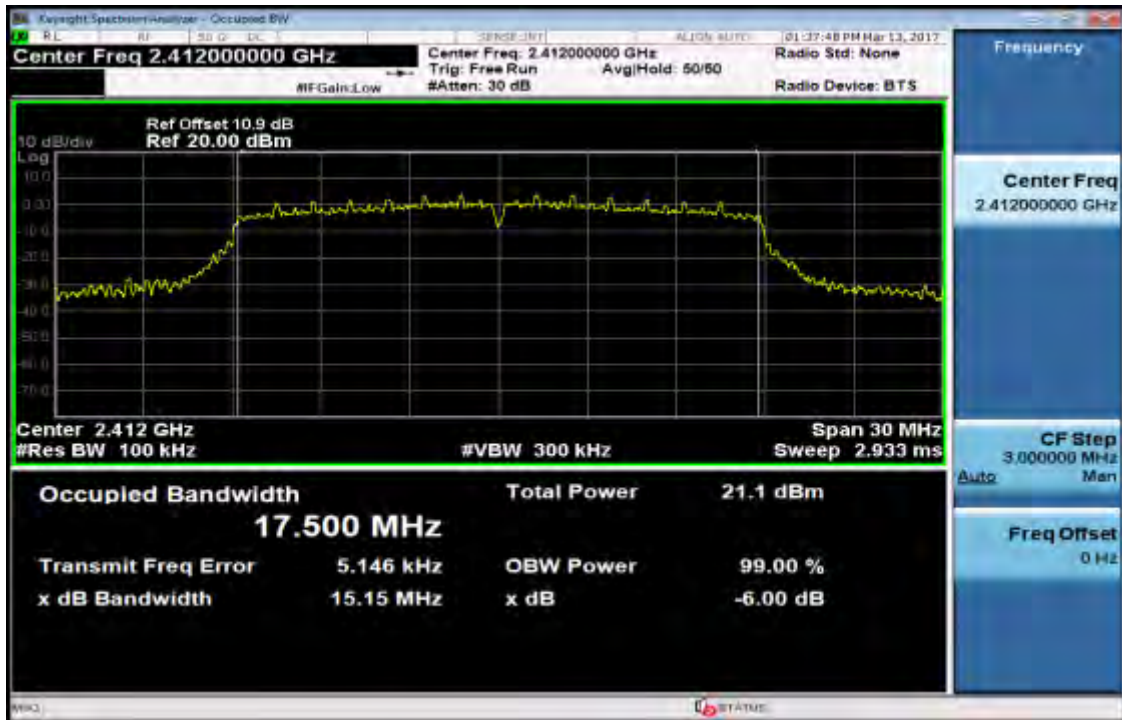
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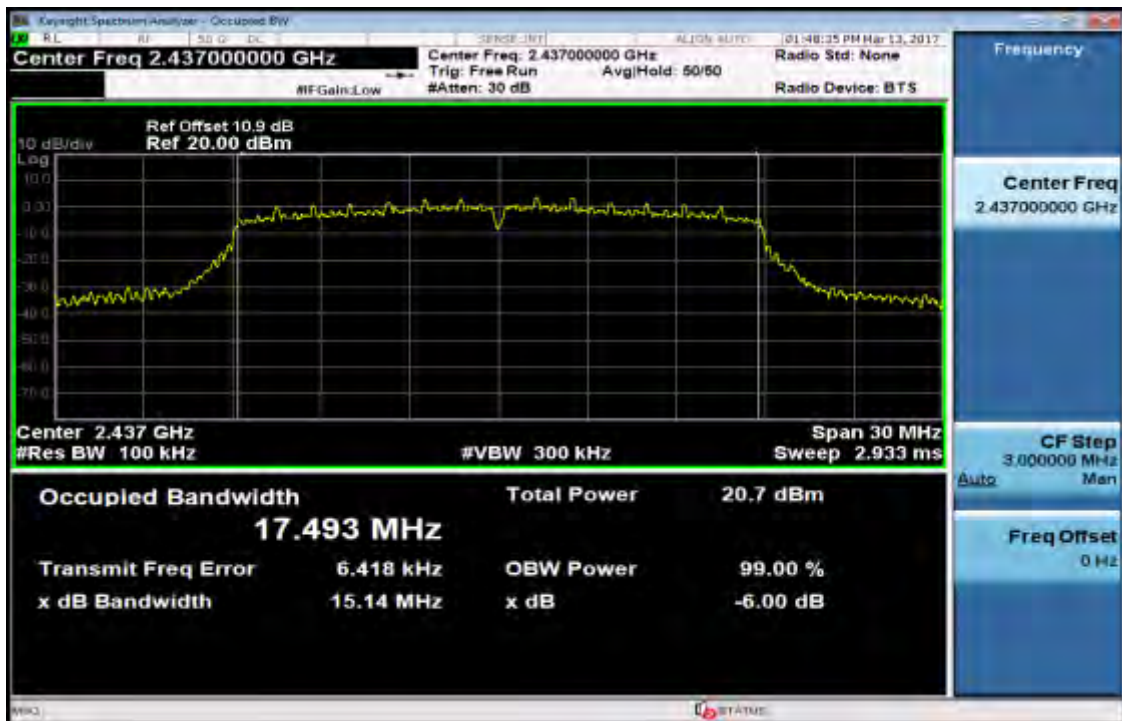
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802.11n_20M (Aux)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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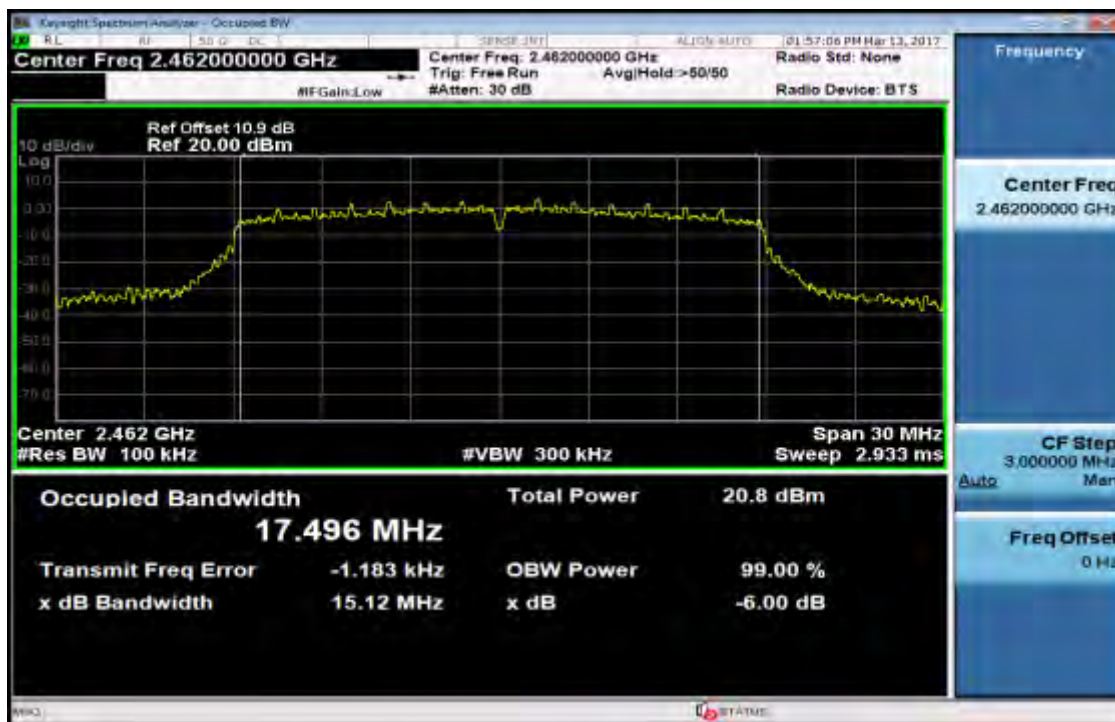
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6dB Band Width Test Data CH-High



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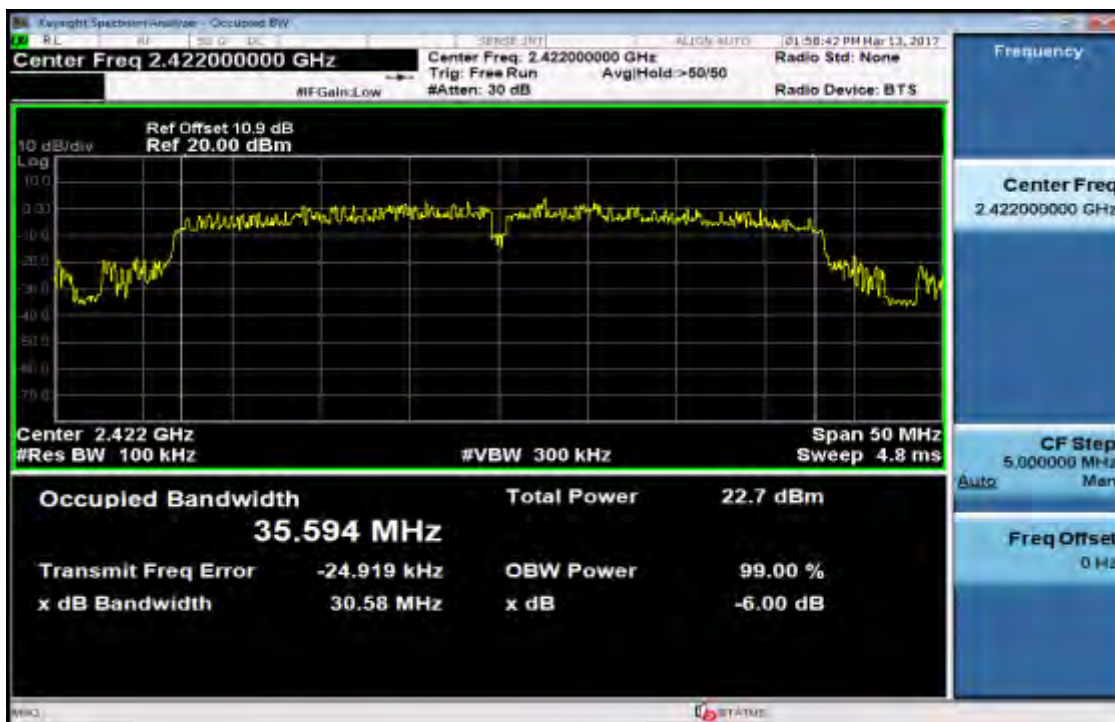
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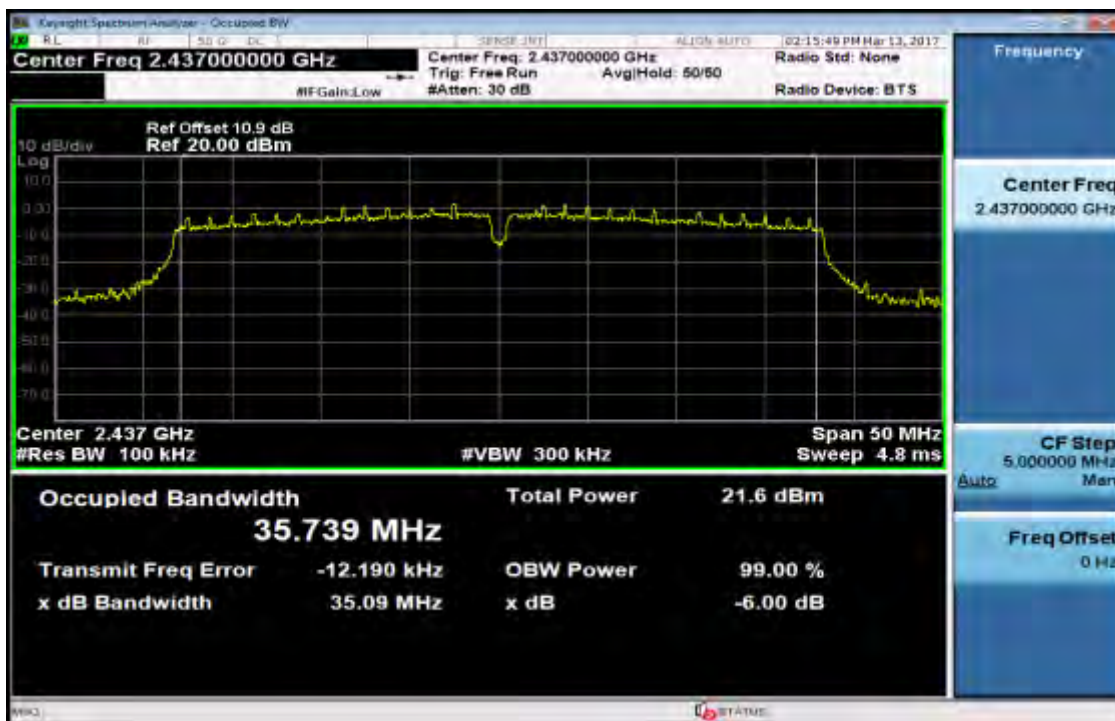
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802.11n_40M (Main) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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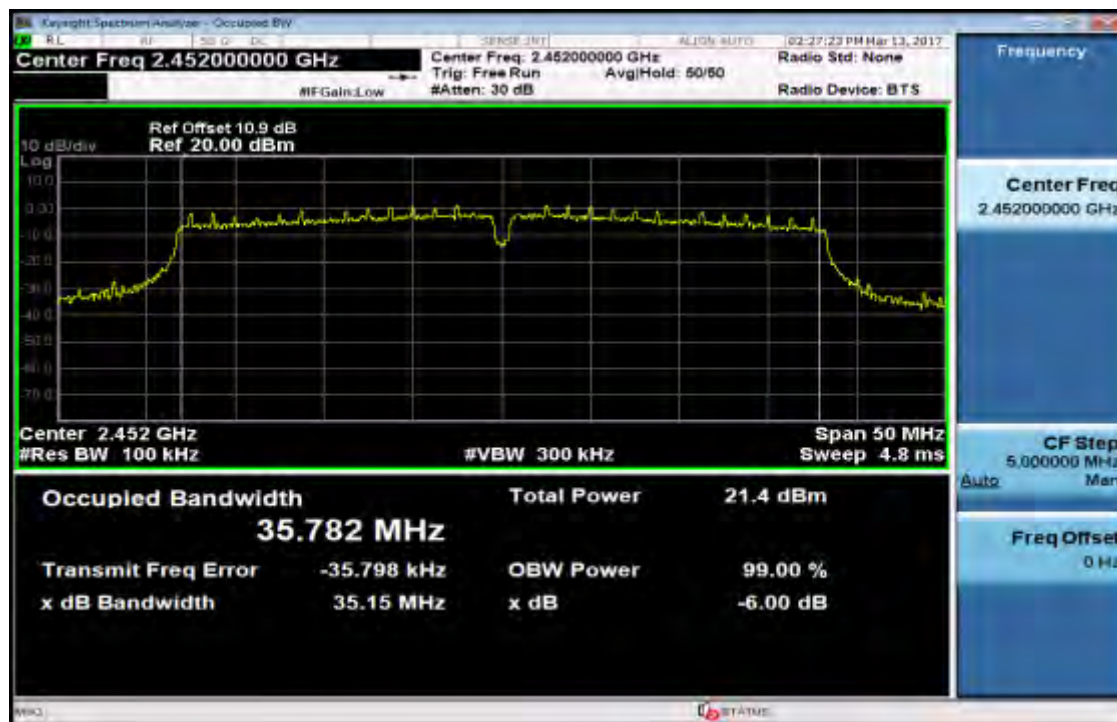
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6dB Band Width Test Data CH-High



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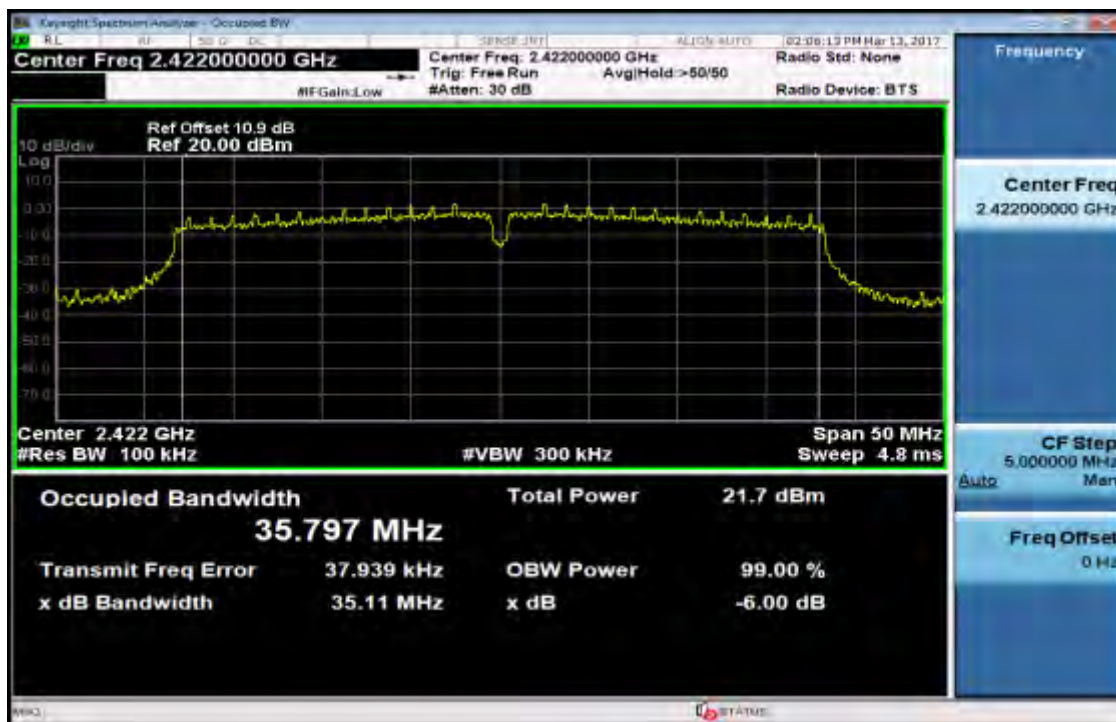
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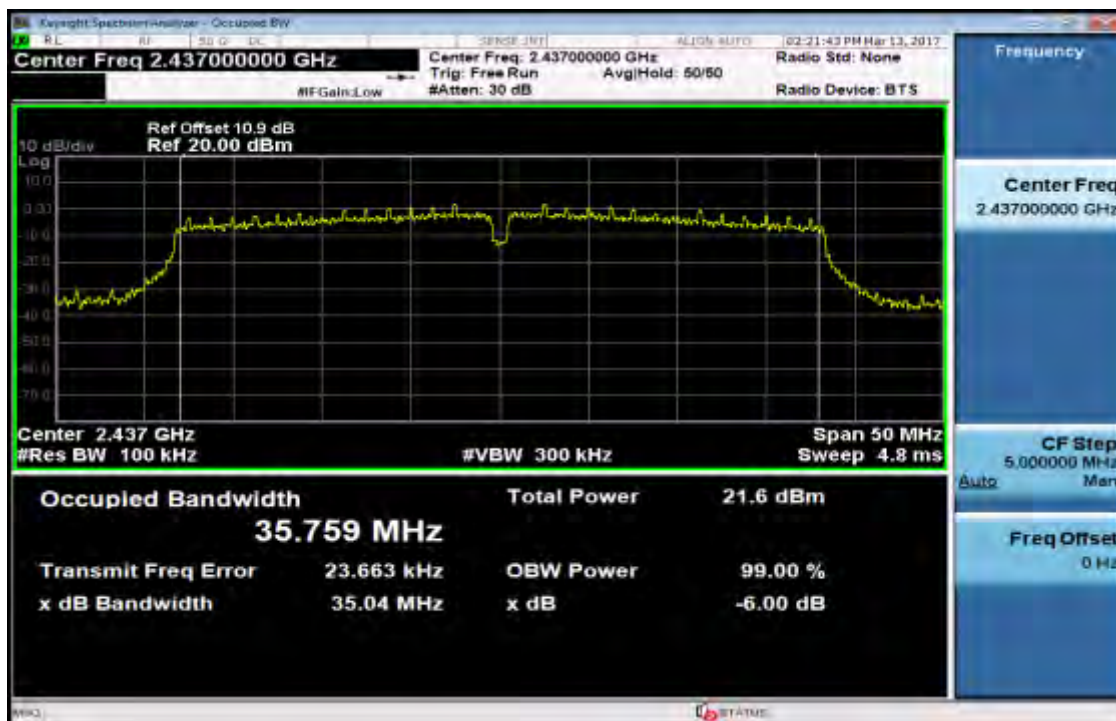
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802.11n_40M (Aux)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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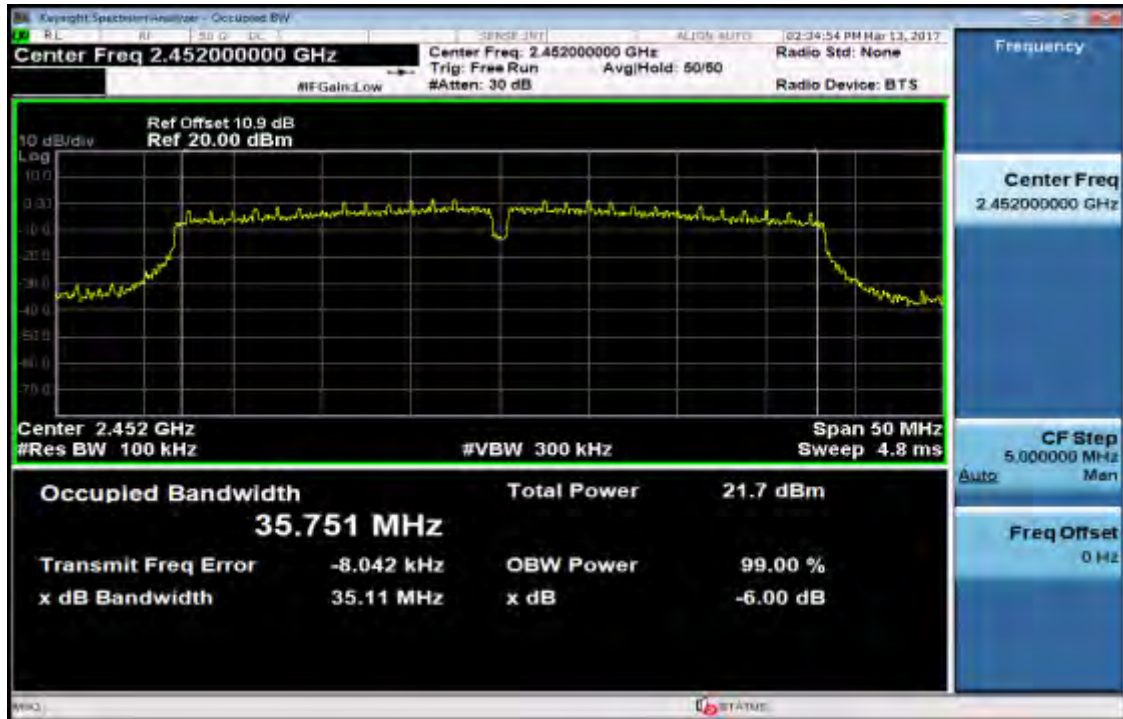
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6dB Band Width Test Data CH-High



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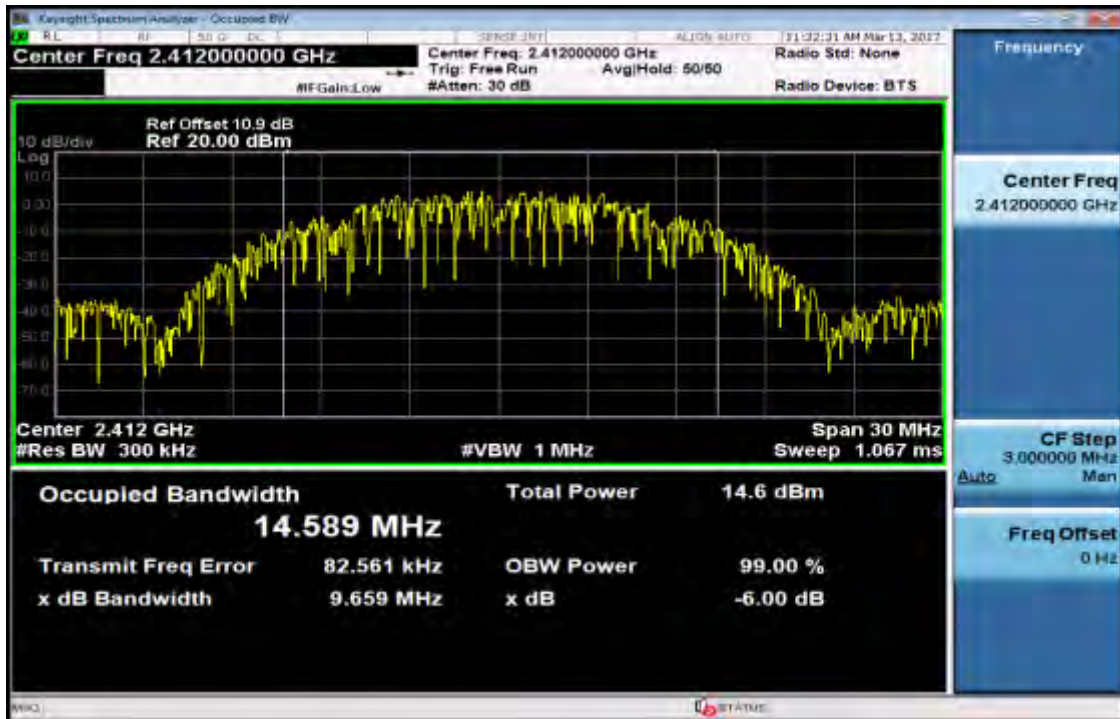
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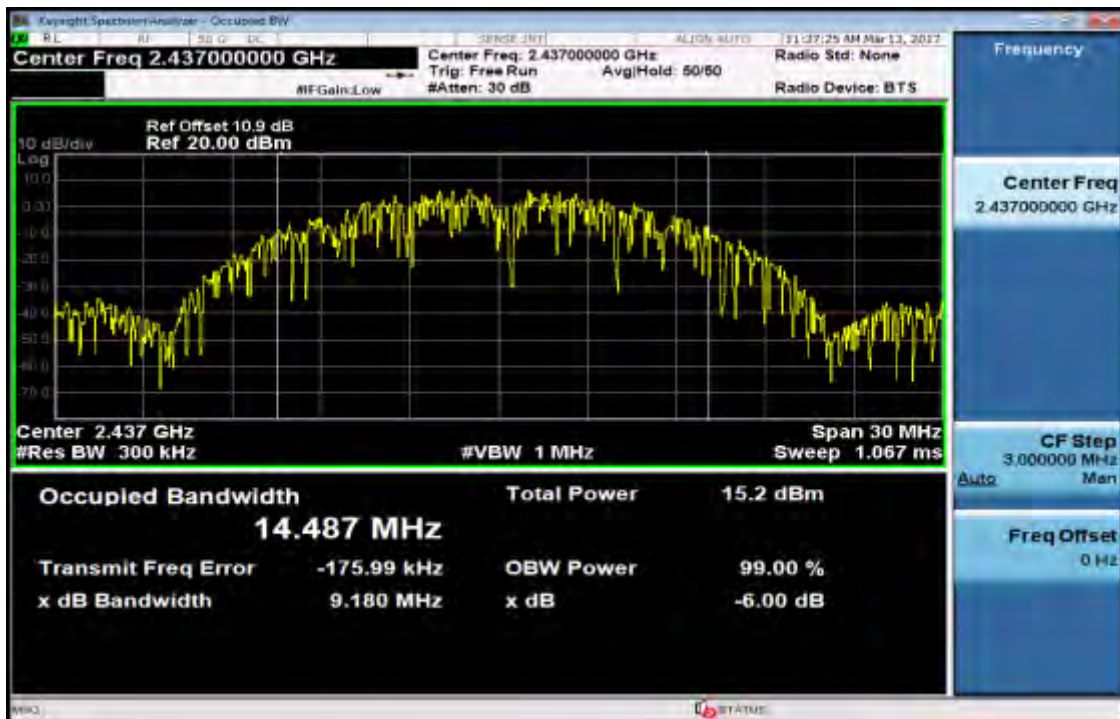
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802.11b (Main) 99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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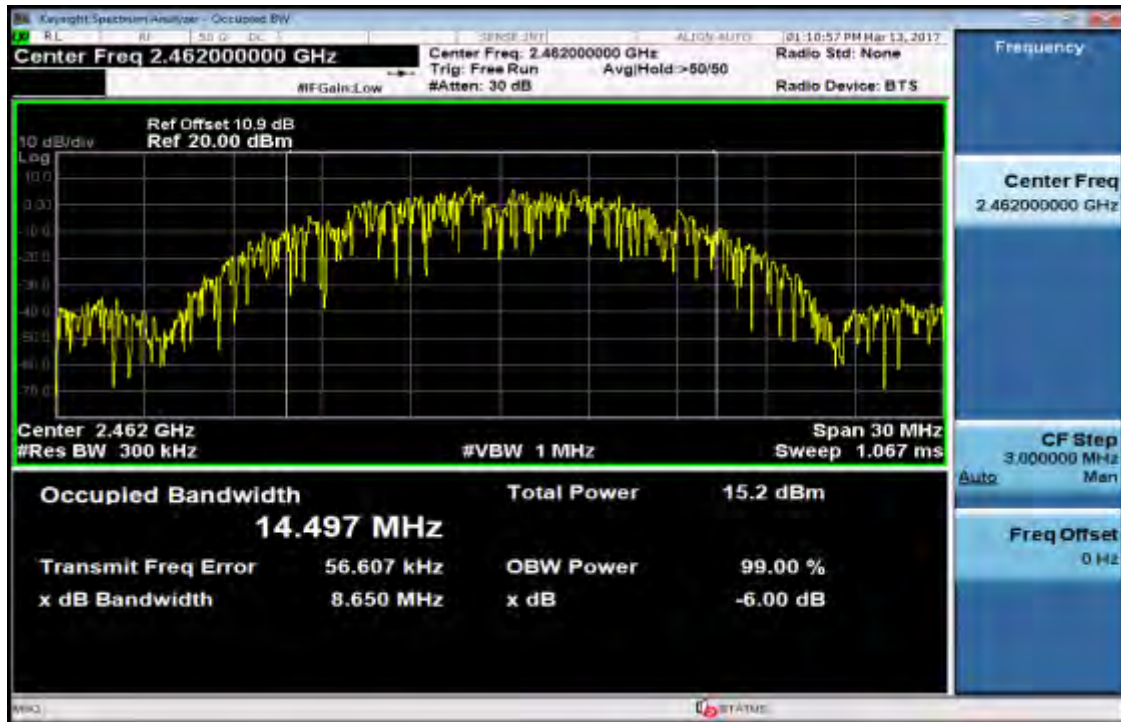
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99% Band Width Test Data CH-High



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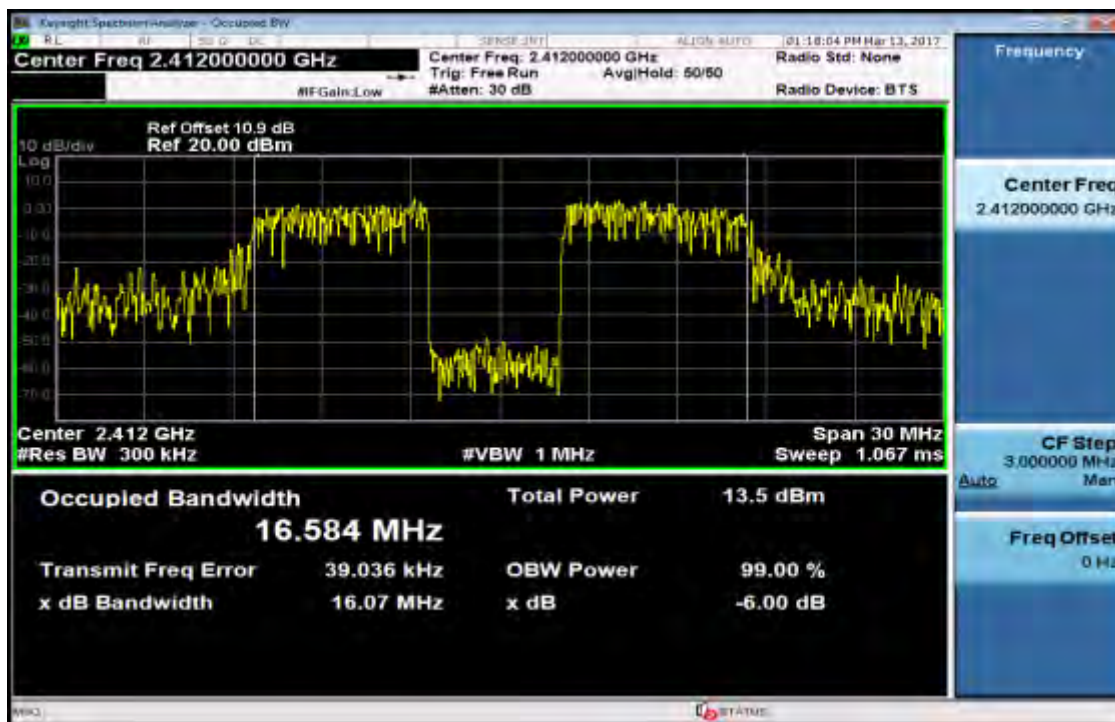
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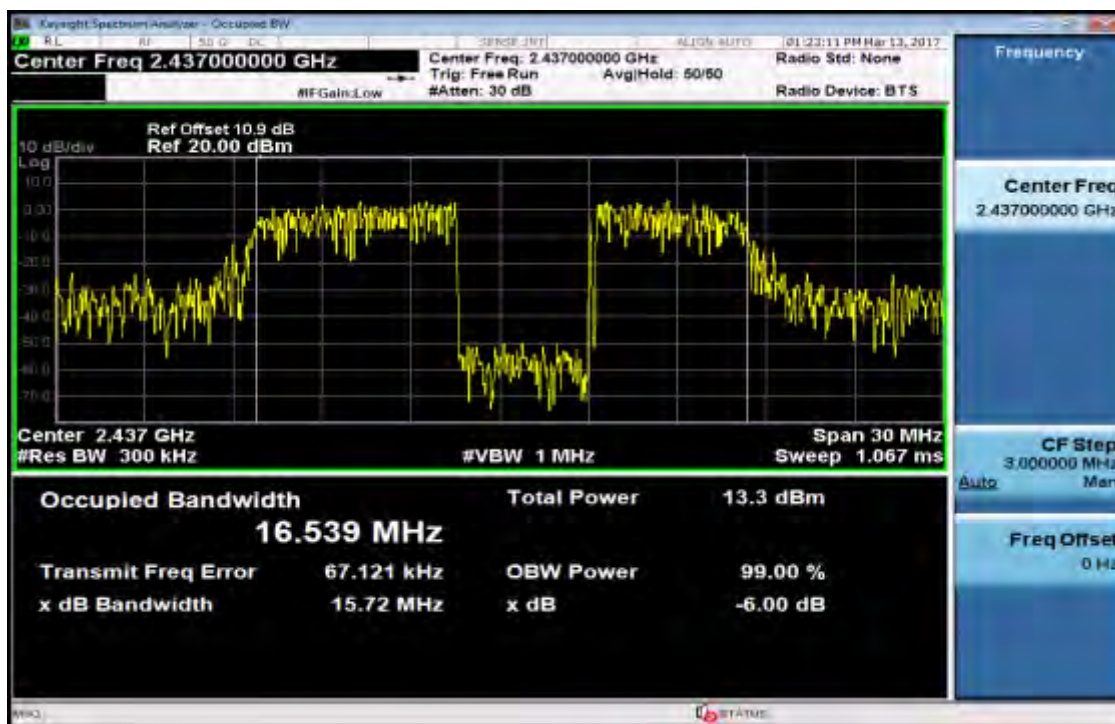
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802.11g (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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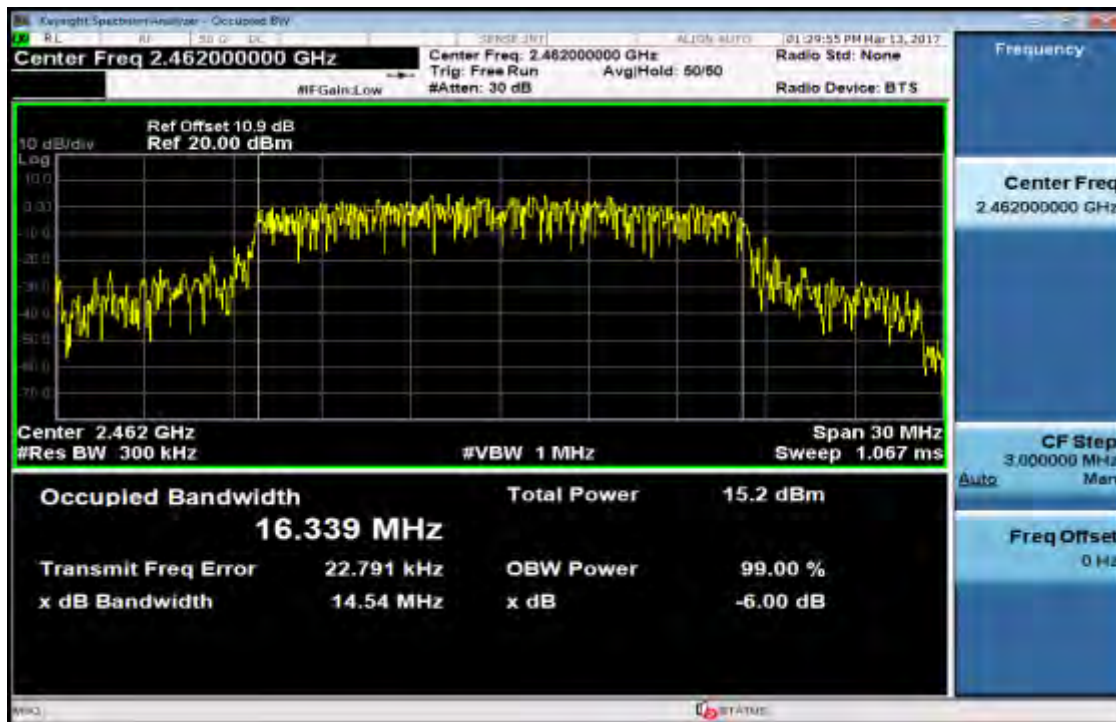
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99% Band Width Test Data CH-High



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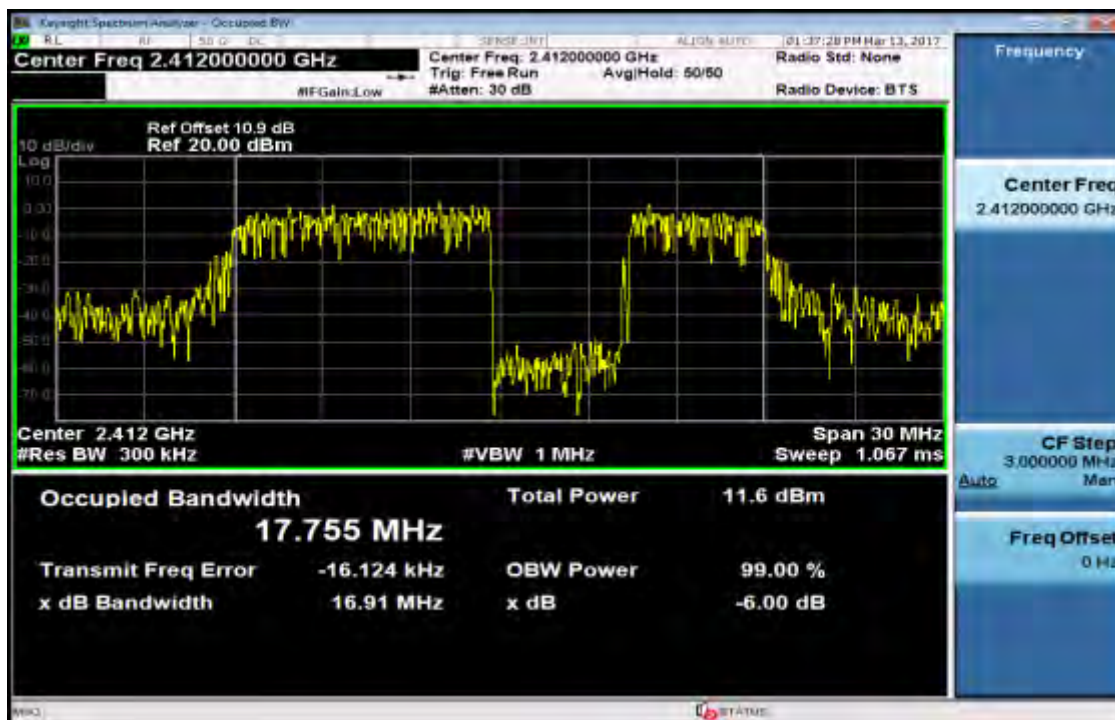
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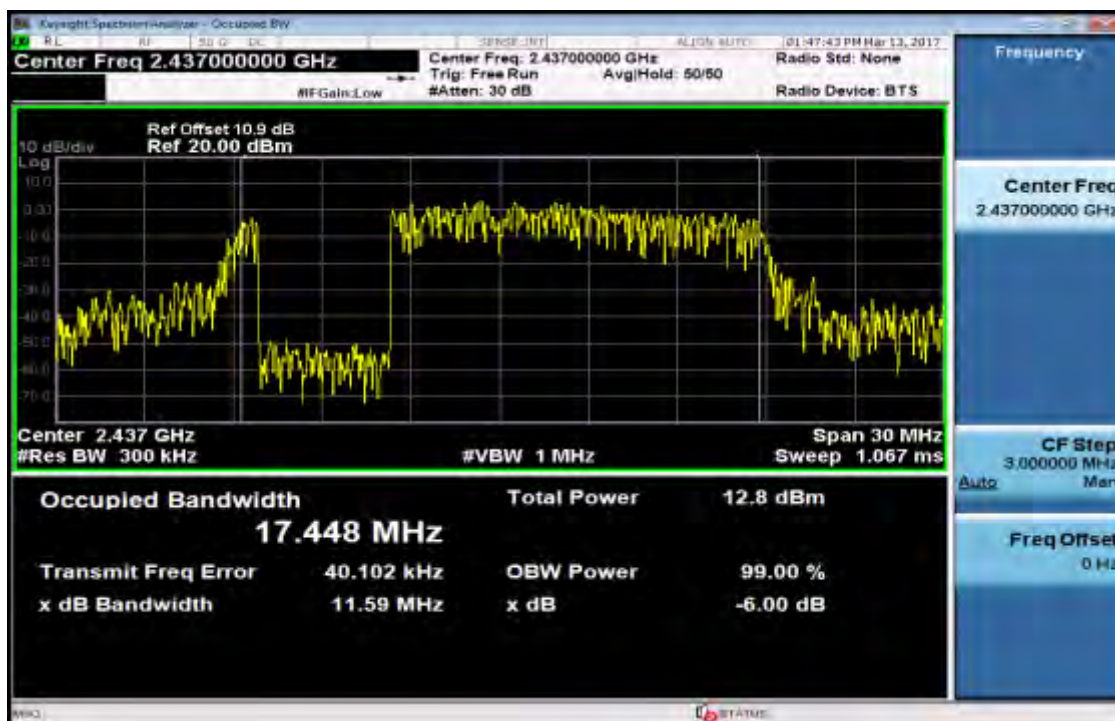
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802.11n_20M (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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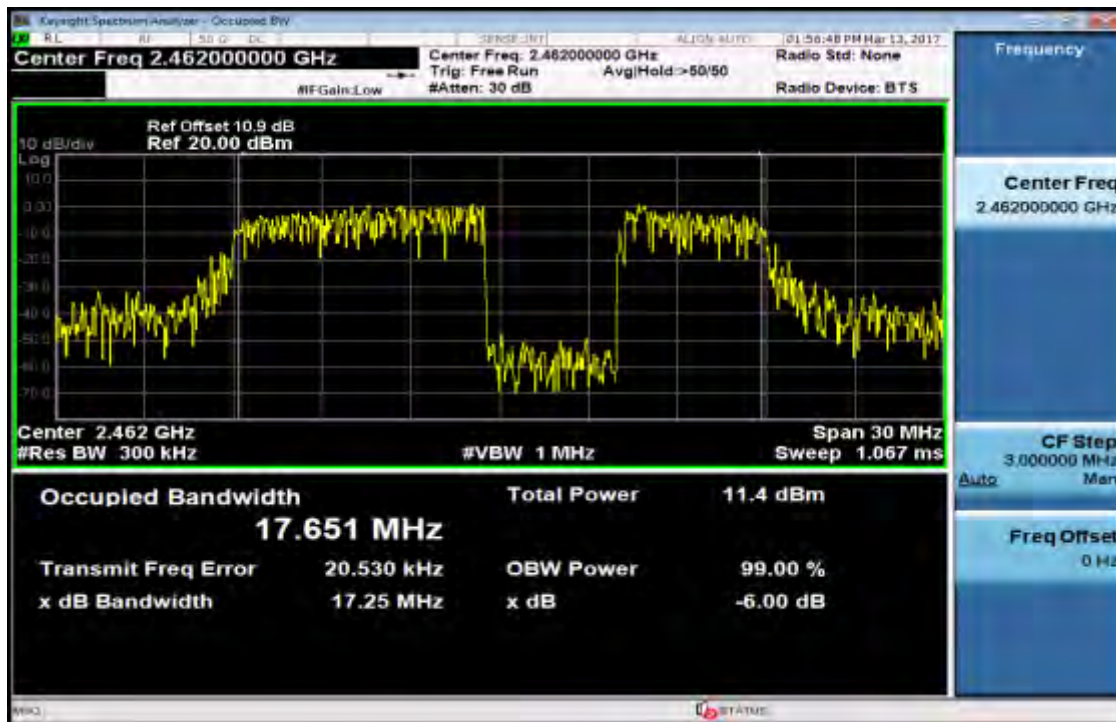
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99% Band Width Test Data CH-High



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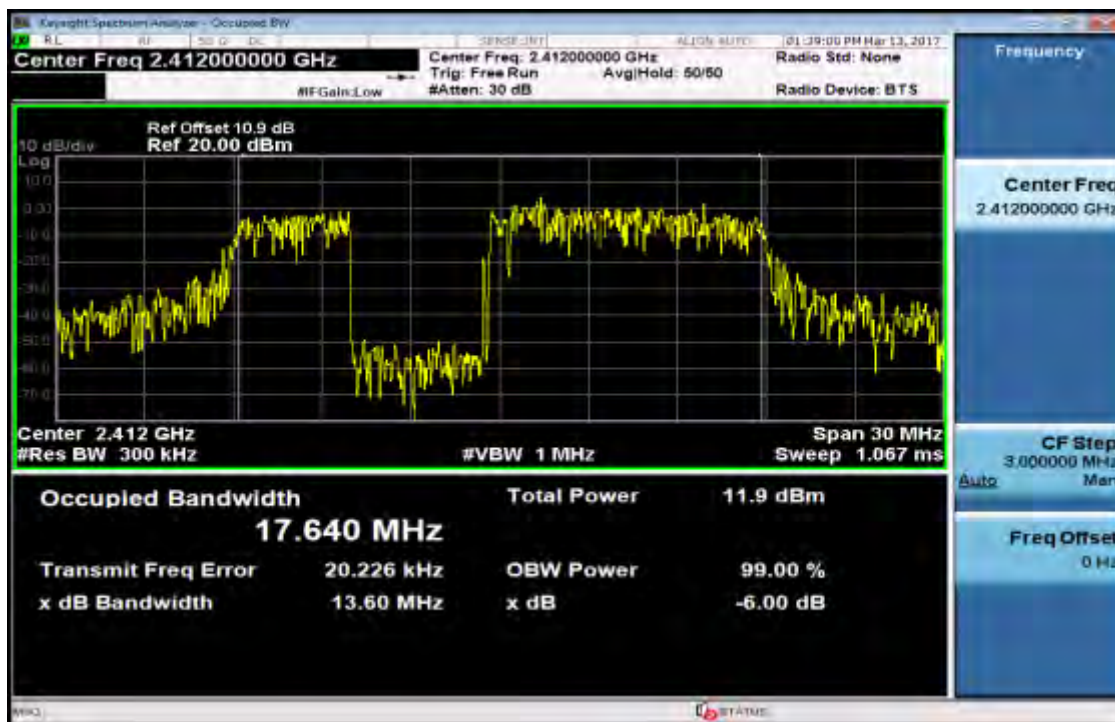
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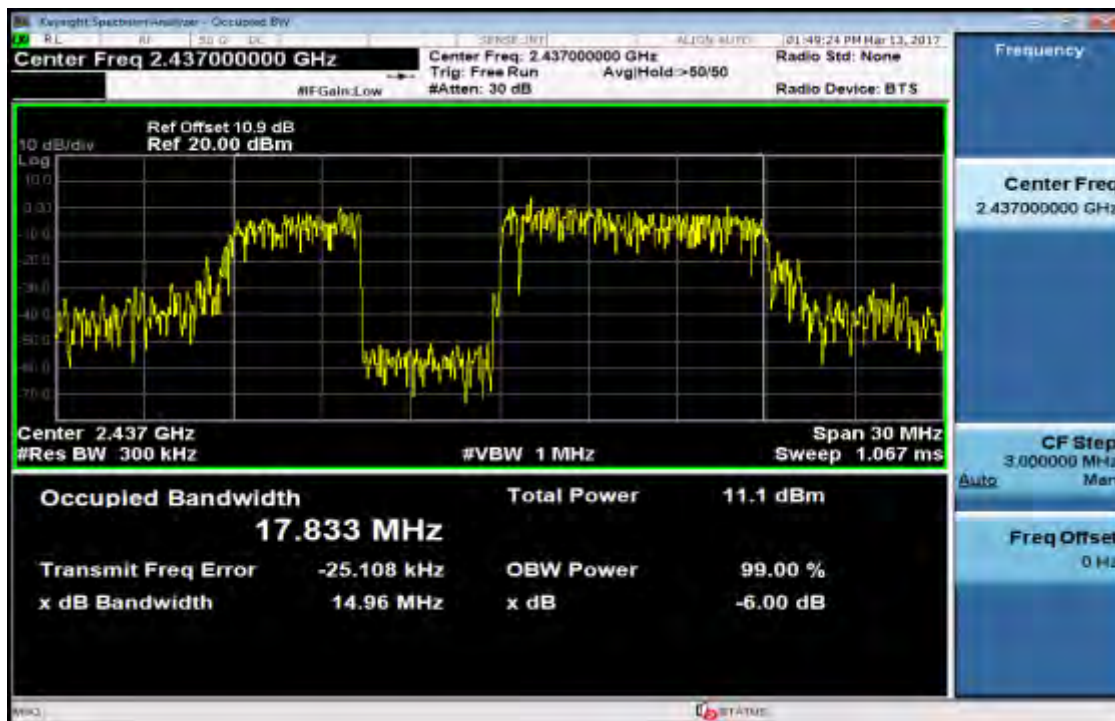
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802.11n_20M (Aux)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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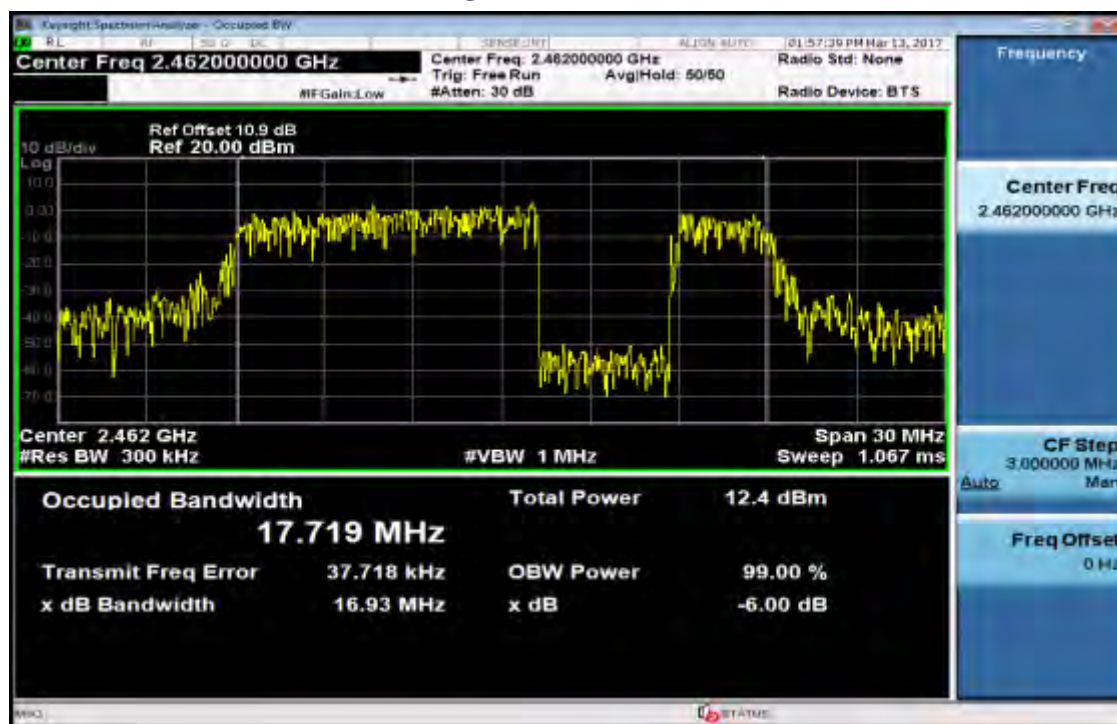
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99% Band Width Test Data CH-High



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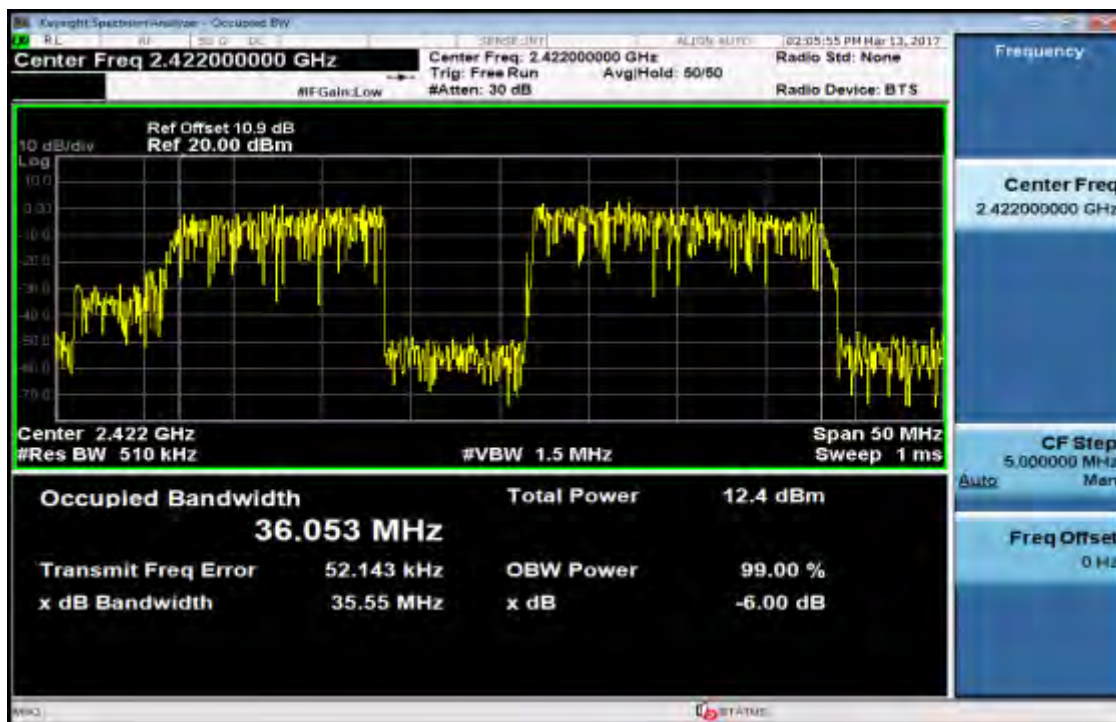
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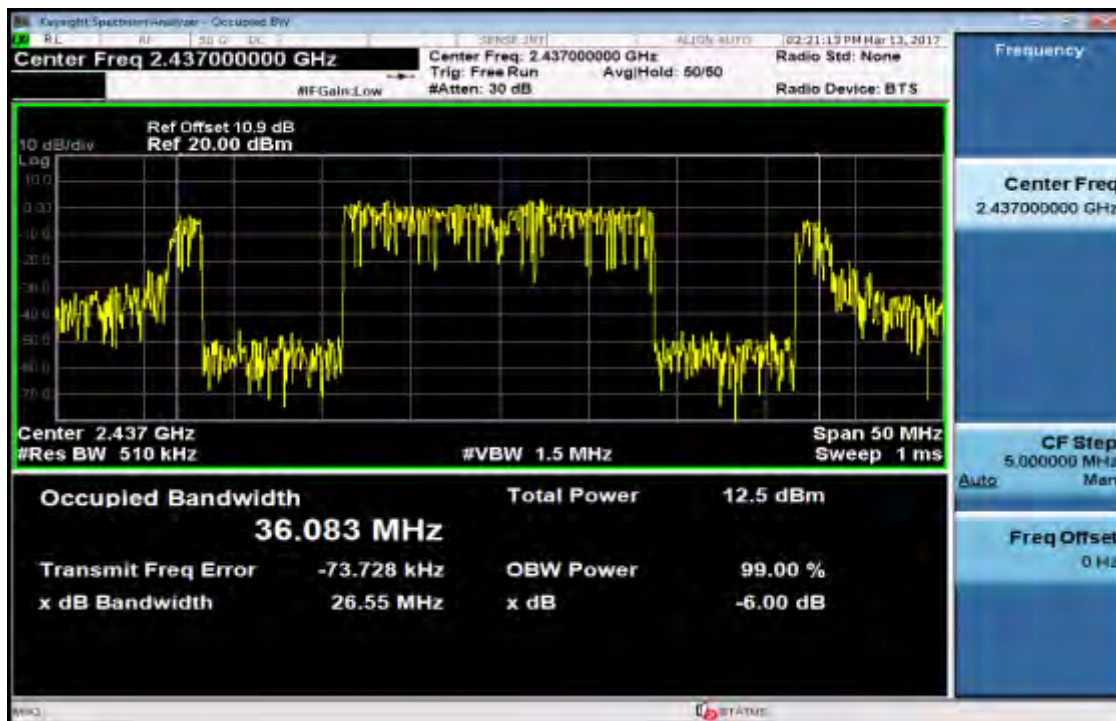
Member of SGS Group

802.11n_40M (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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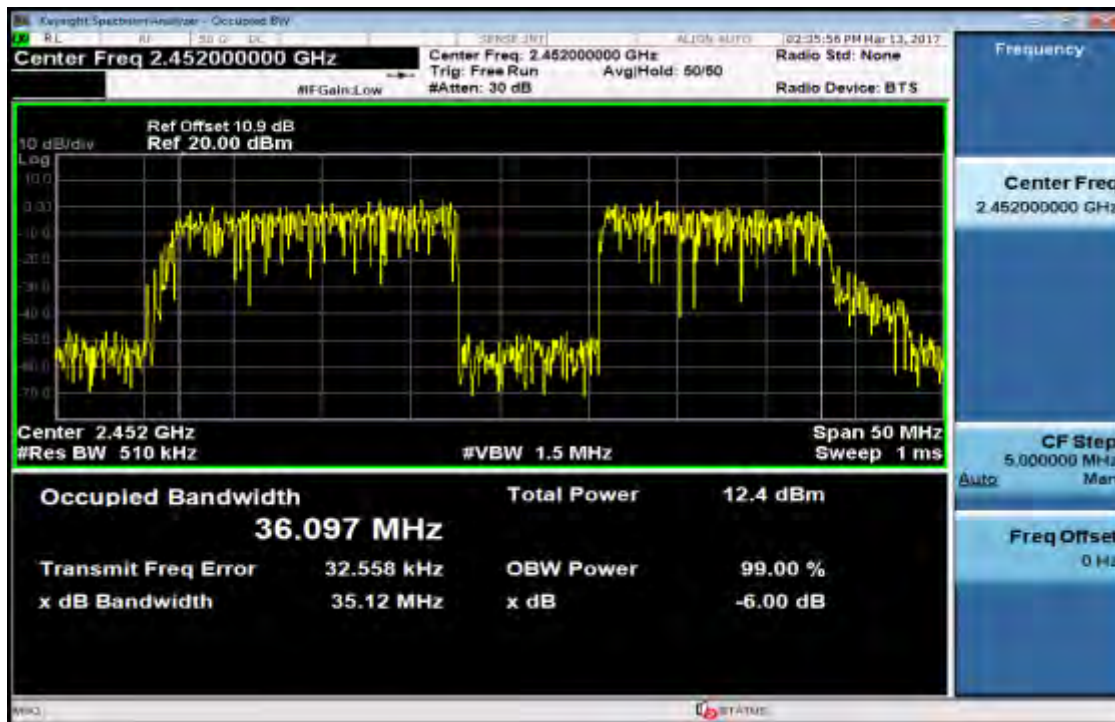
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99% Band Width Test Data CH-High



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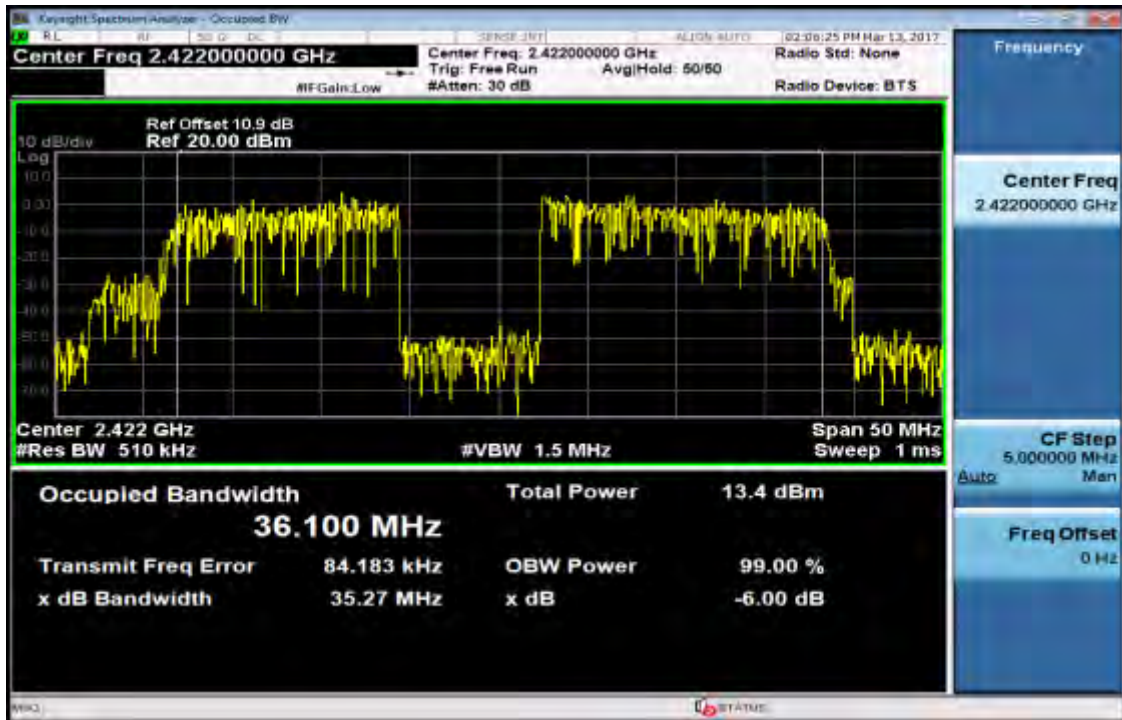
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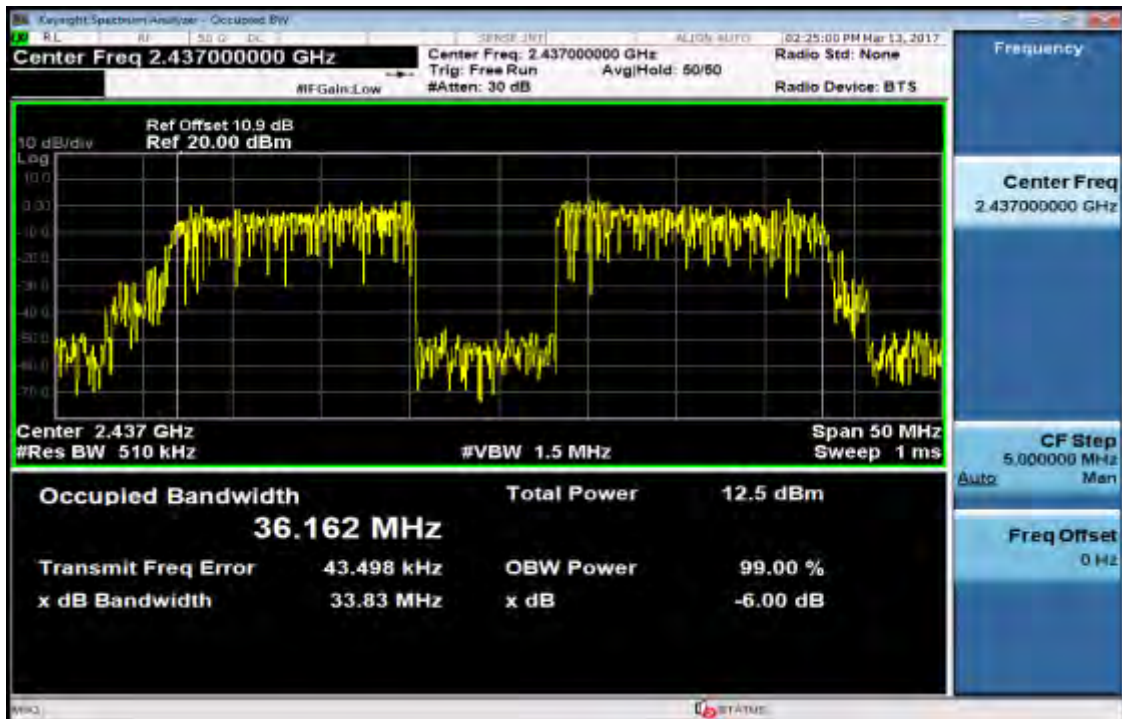
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802.11n_40M (Aux)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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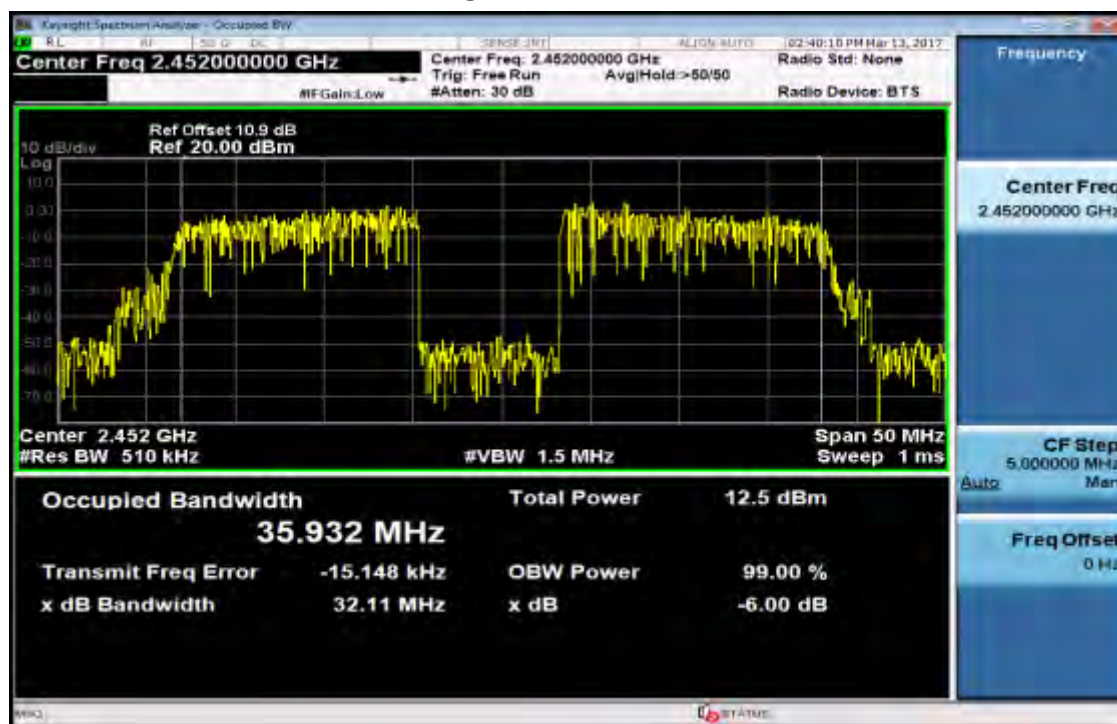
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99% Band Width Test Data CH-High



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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.

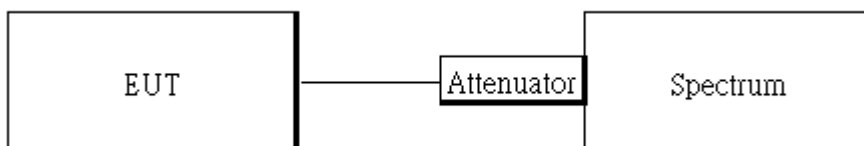
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.8.

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	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017

10.3 Test SET-UP



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10.4 Measurement Procedure

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.

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

1. *Refer to next page spectrum analyzer data chart and tabular data sheets.*
2. *For restricted Band Edge Limit, please refer to section 12.5 of this report for measurement result.*

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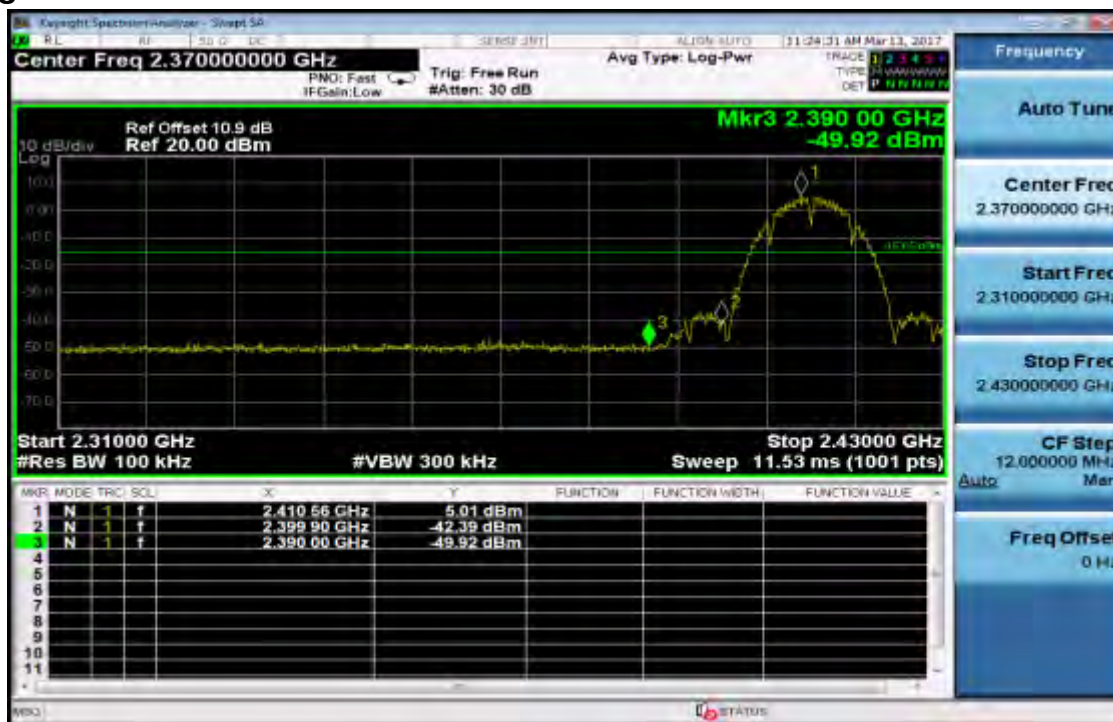
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802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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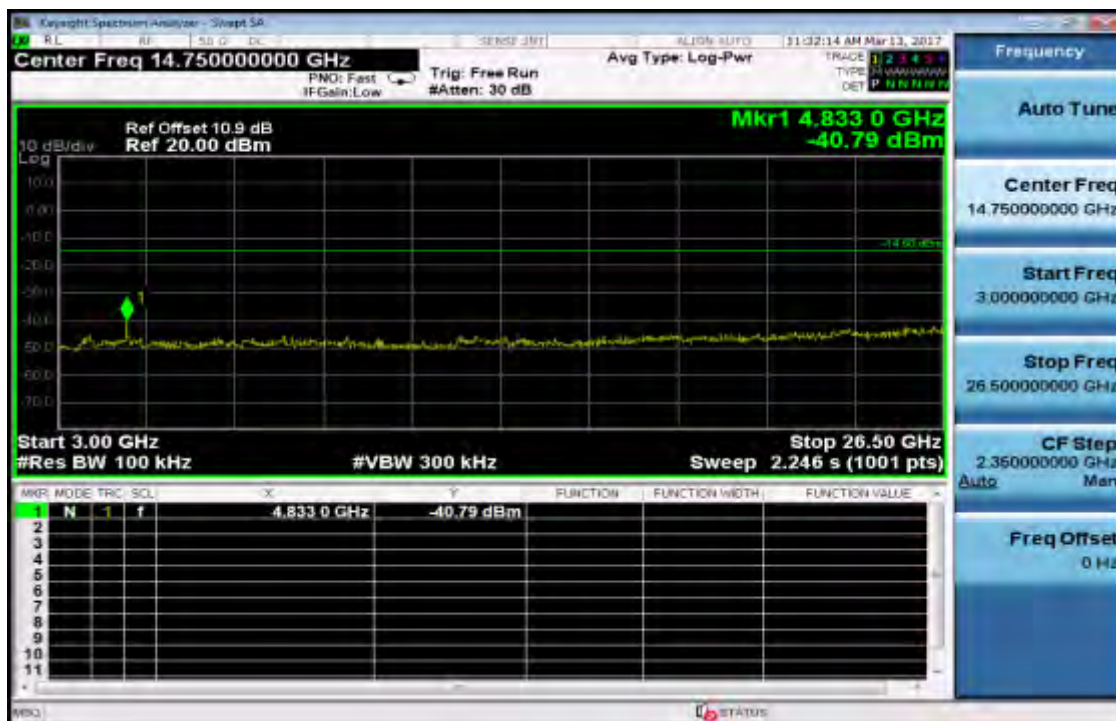
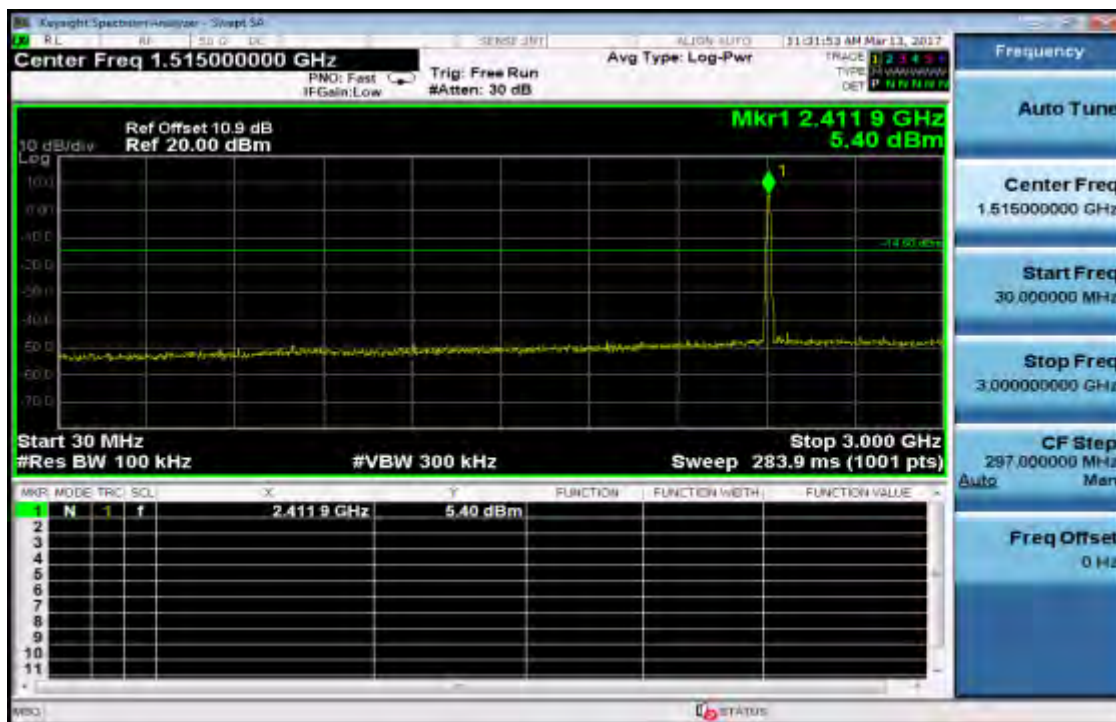
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802.11b

Spurious Emission Test Data CH-Low



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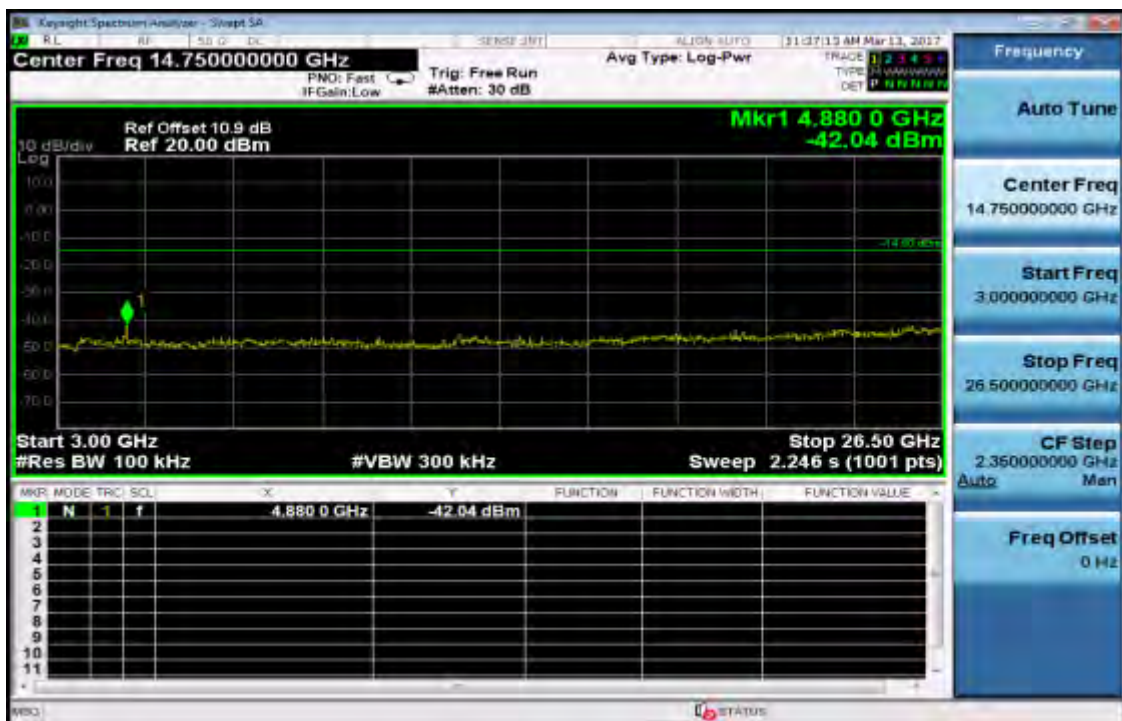
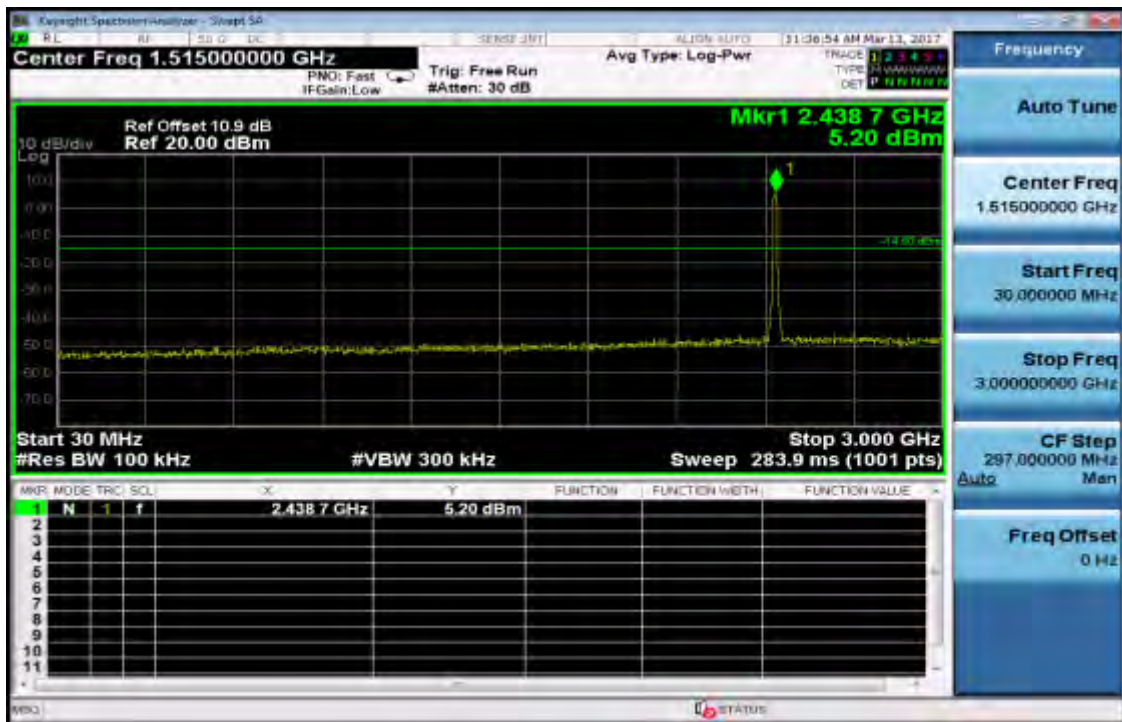
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Spurious Emission Test Data CH-Mid



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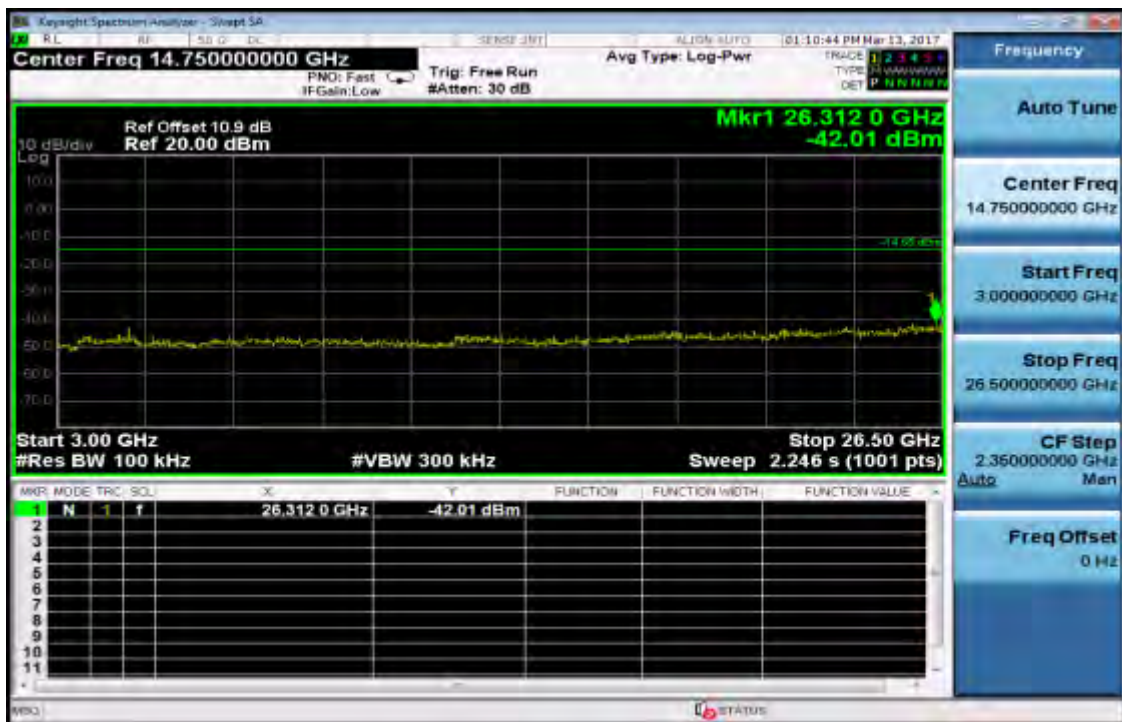
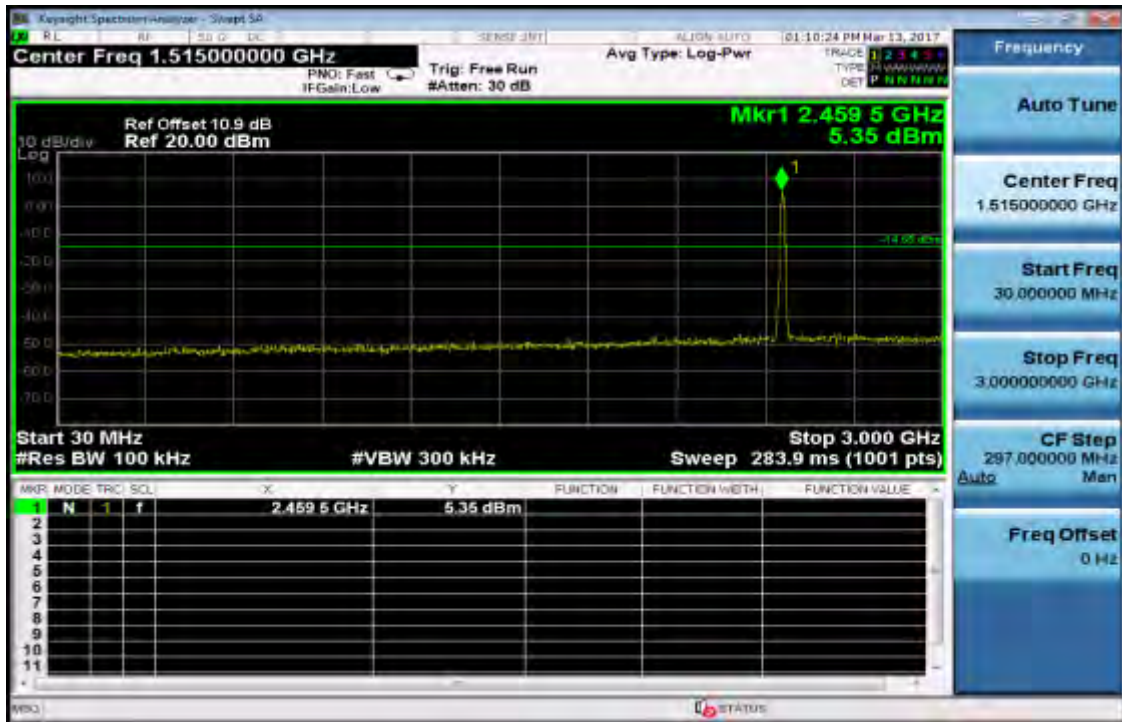
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Spurious Emission Test Data CH-High



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Band Edges Test Data CH-Low



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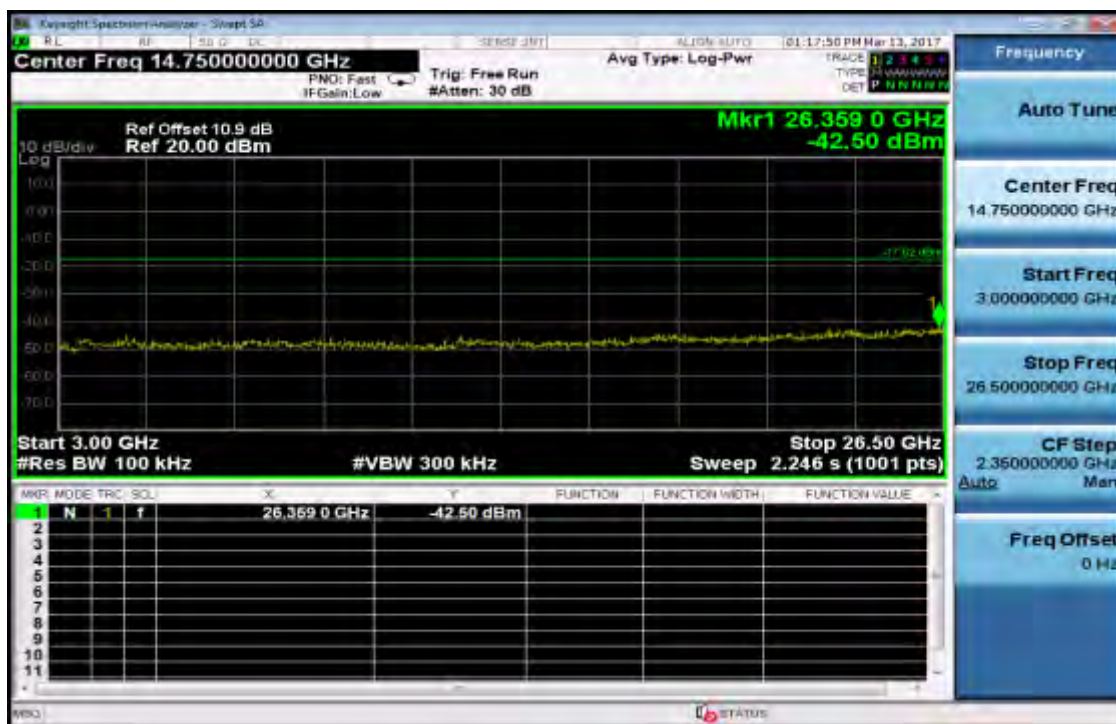
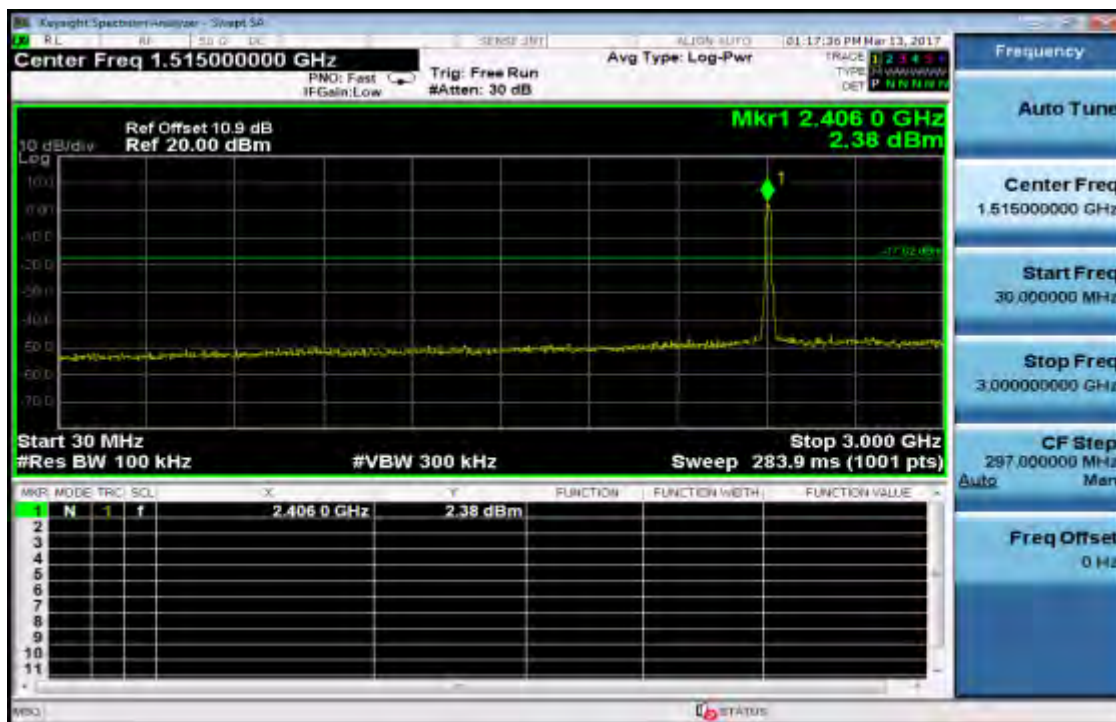
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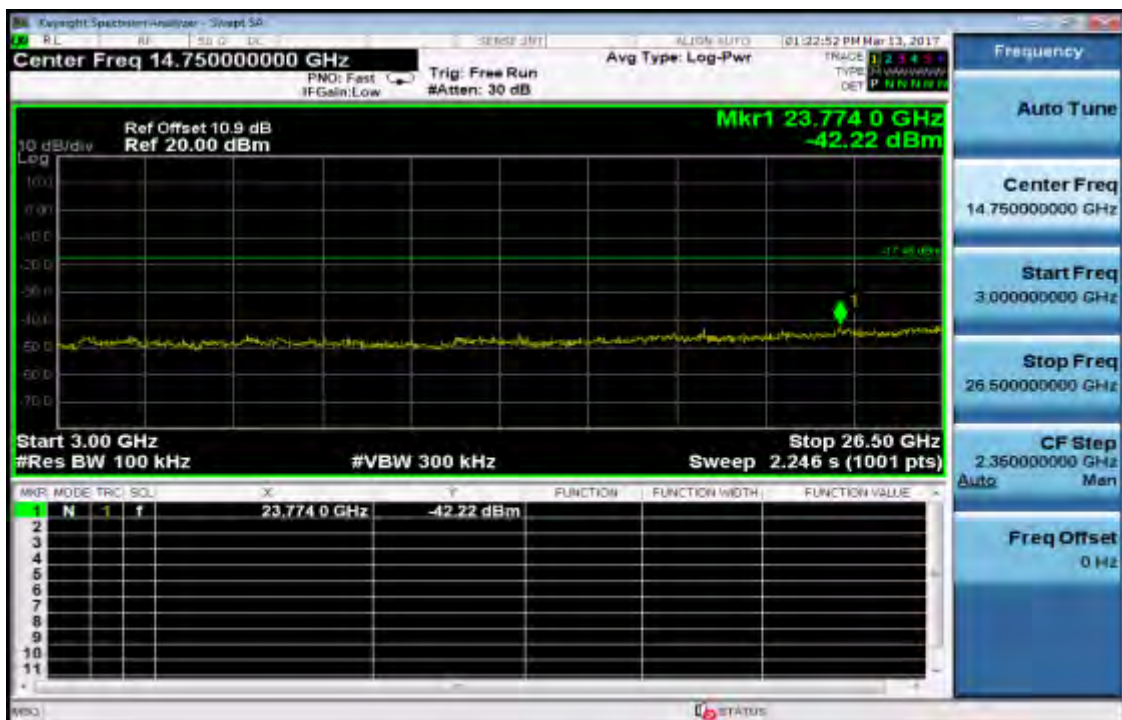
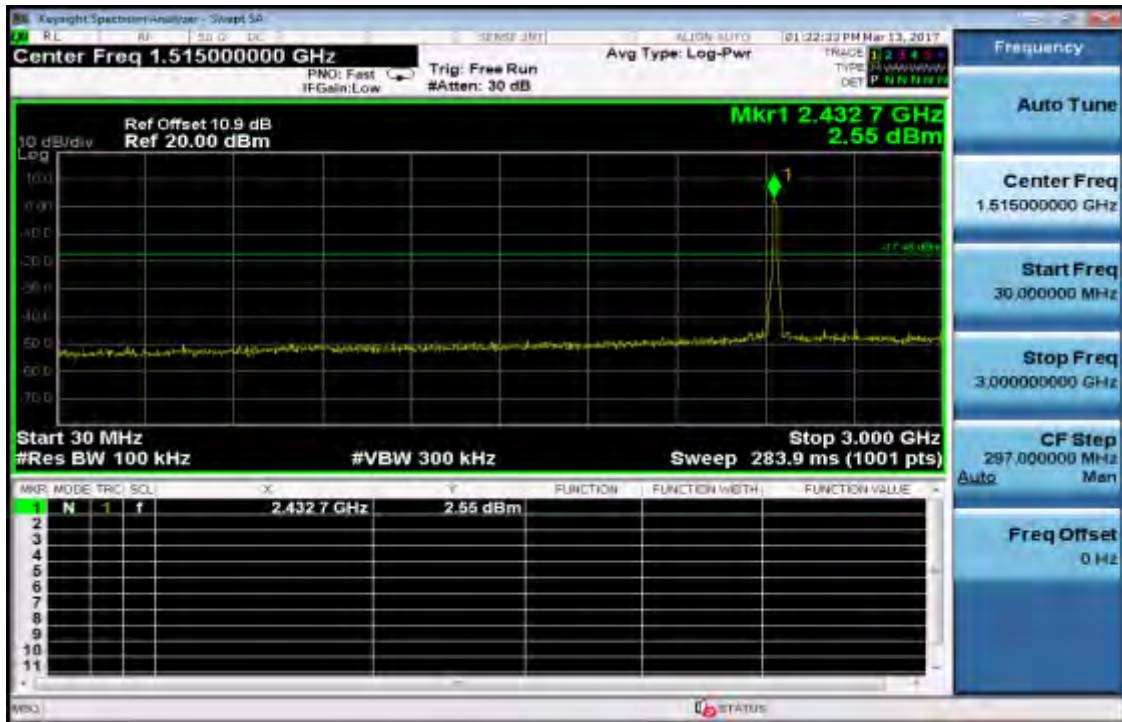
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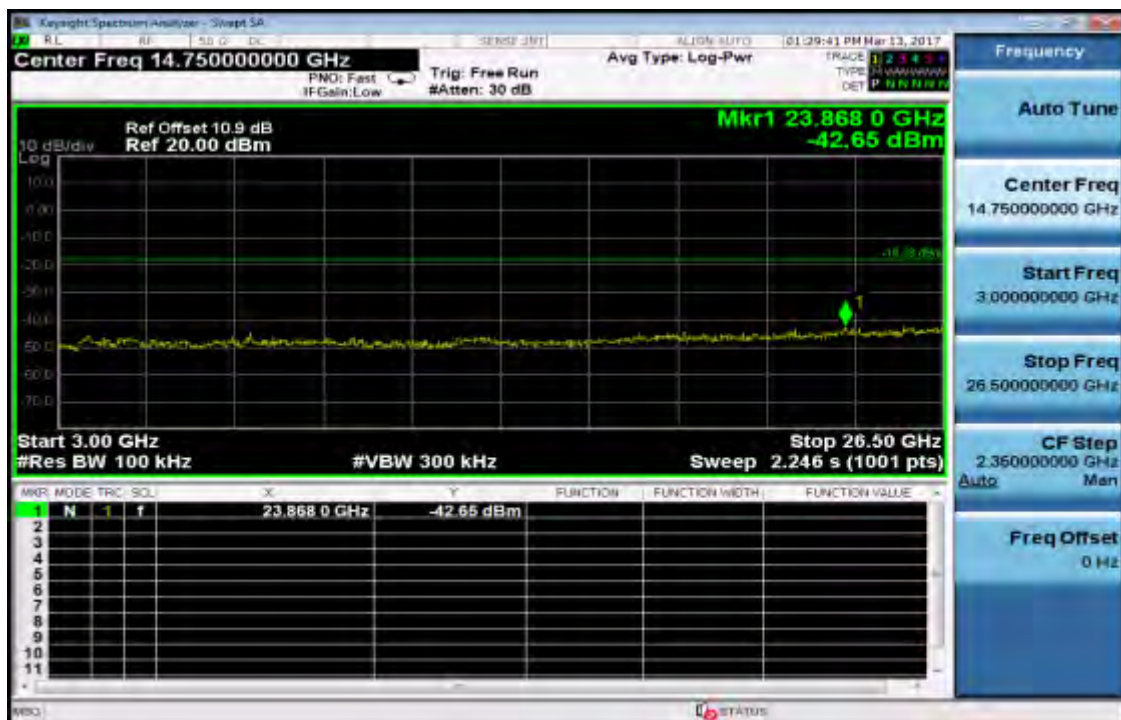
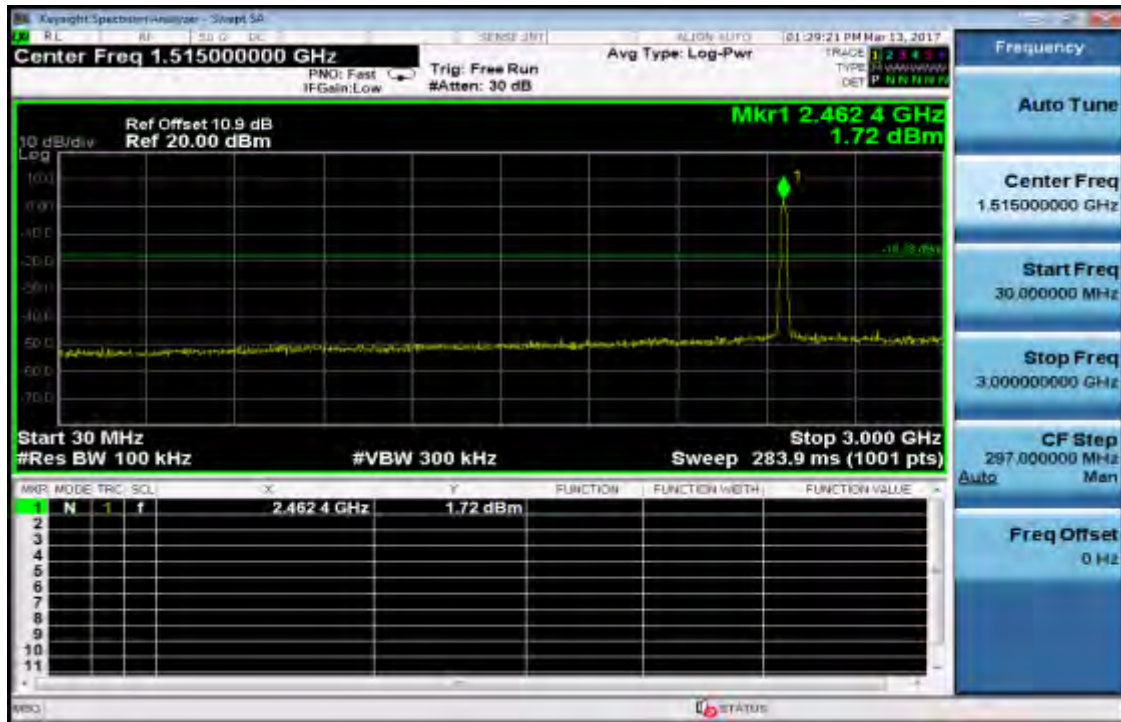
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Spurious Emission Test Data CH-High



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802.11n_HT20

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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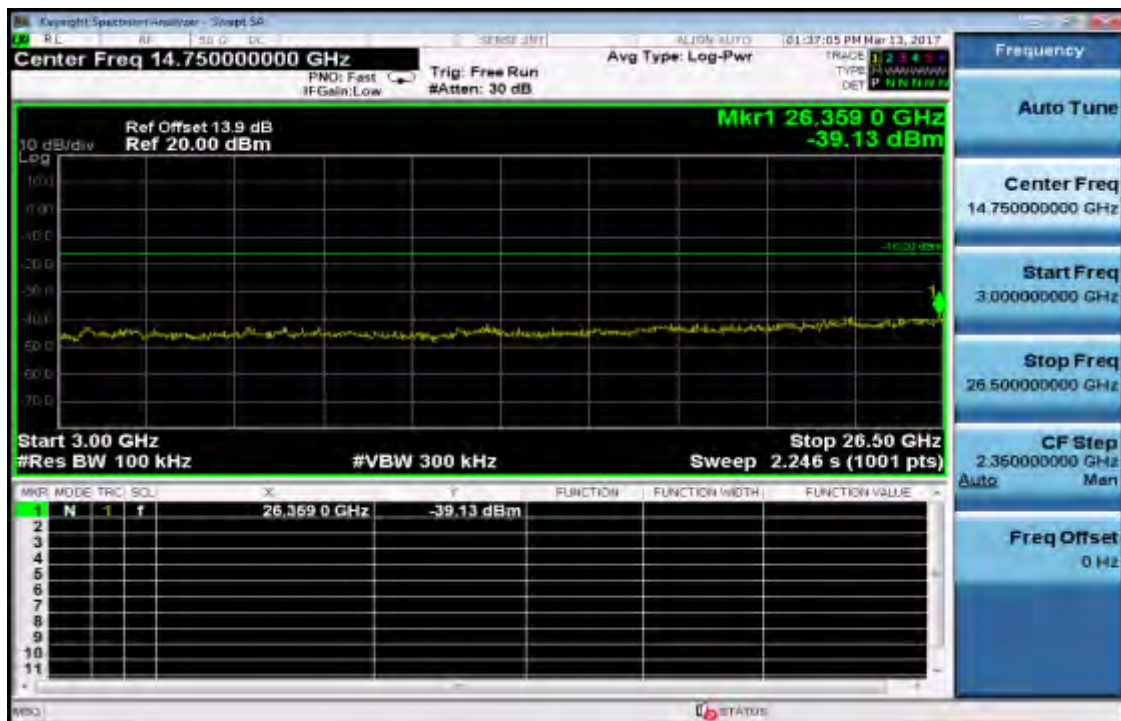
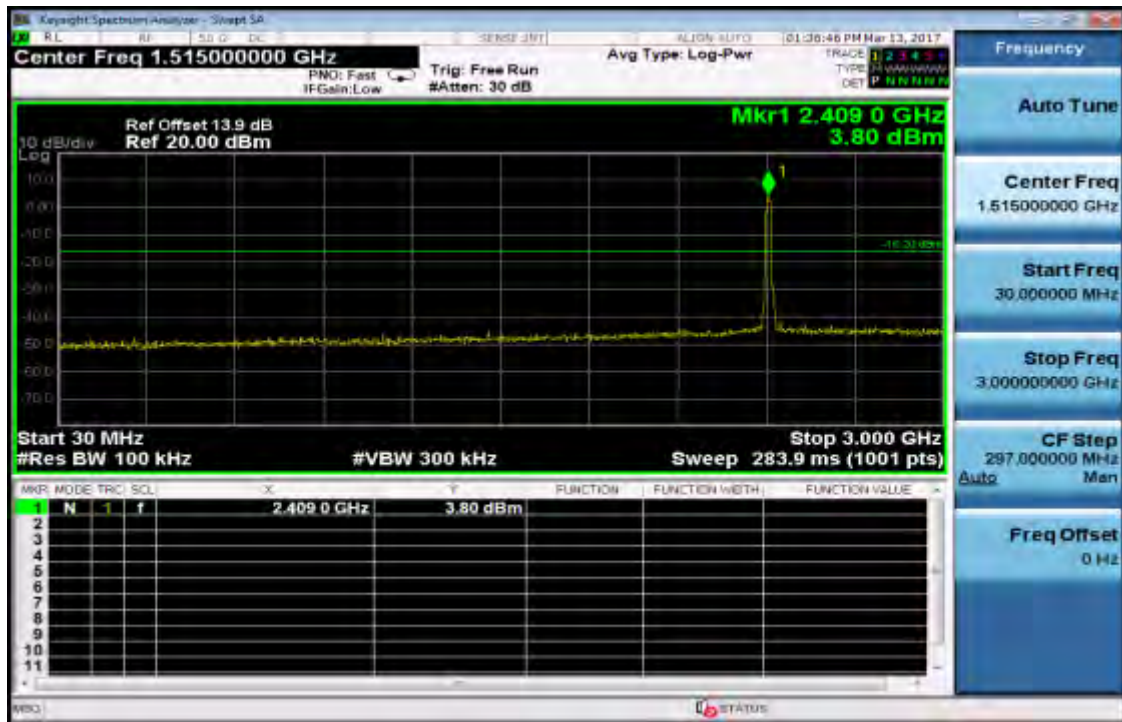
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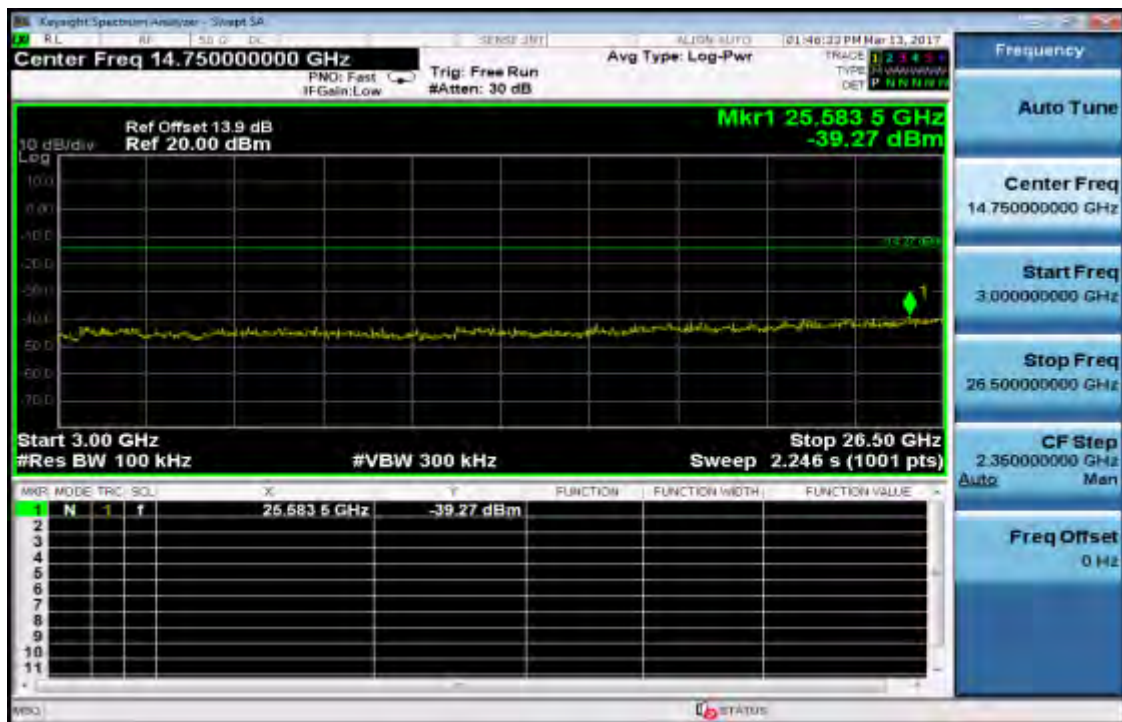
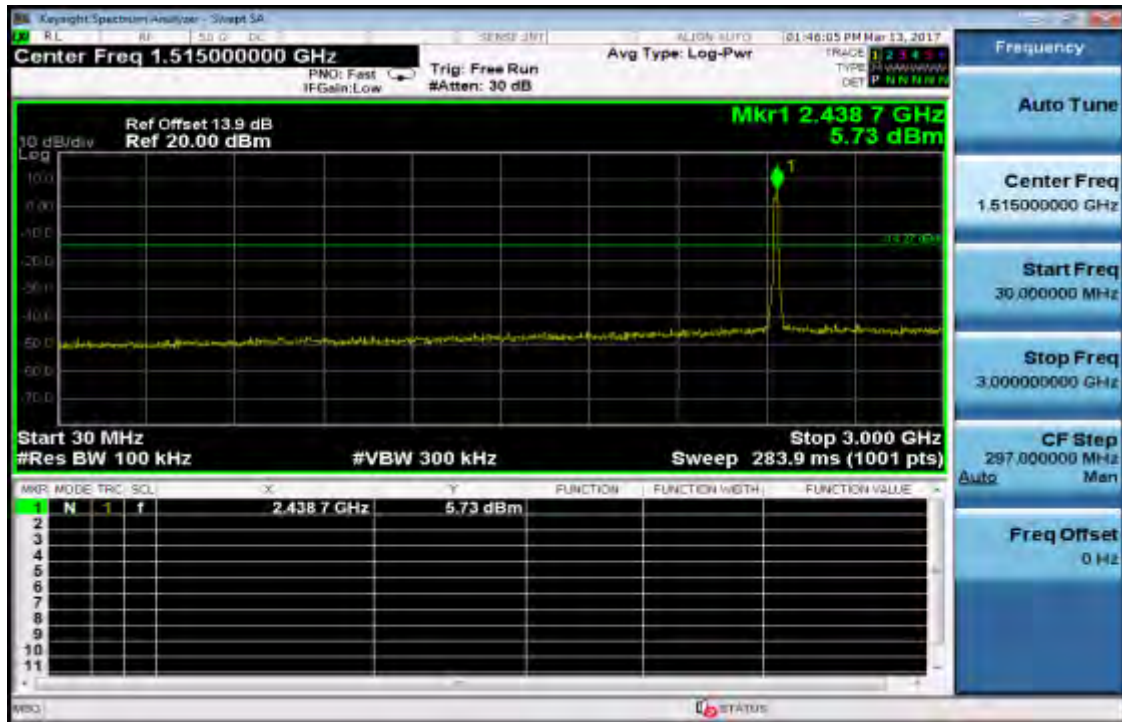
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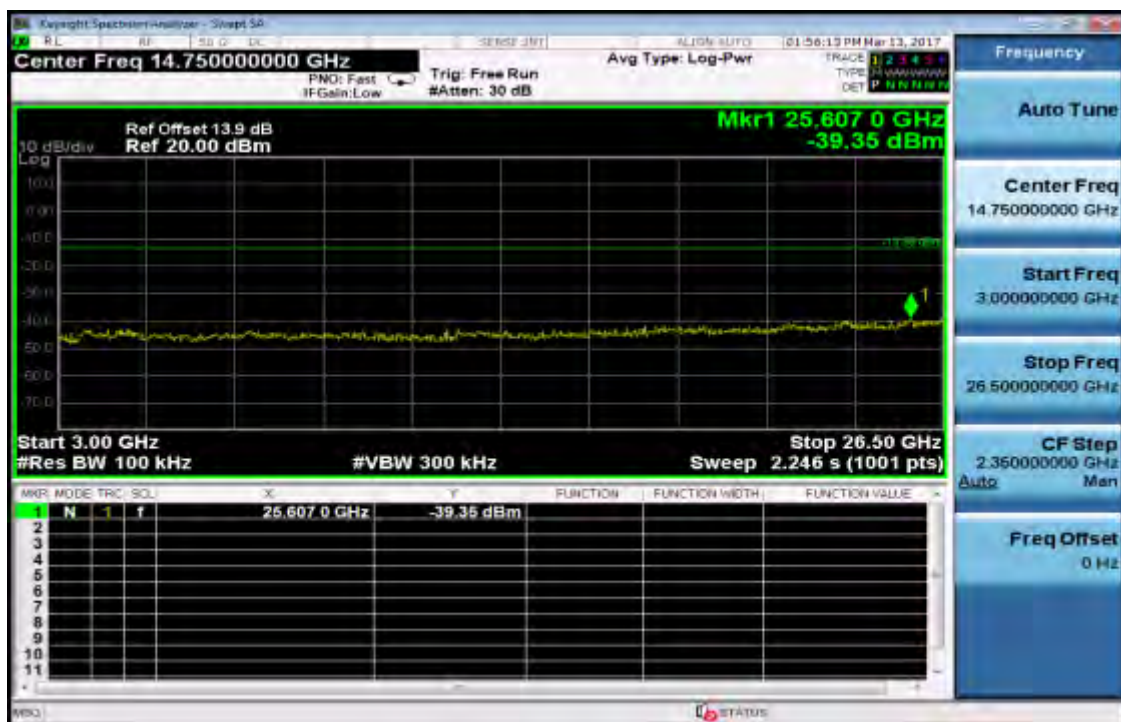
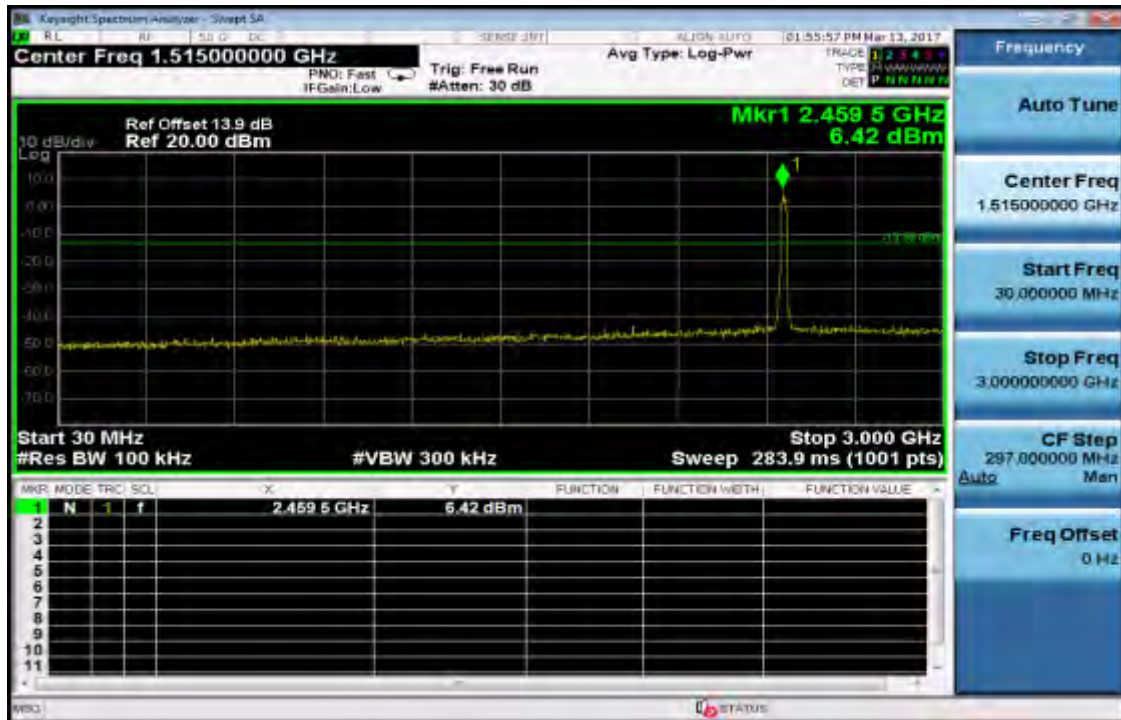
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Band Edges Test Data CH-High



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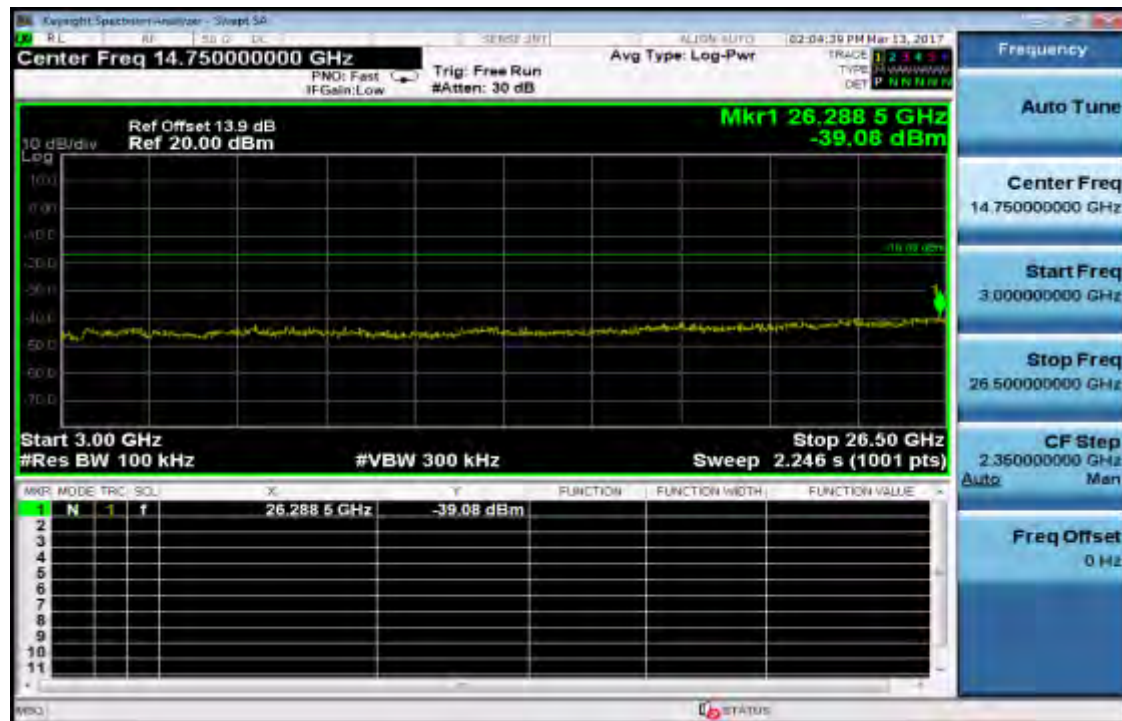
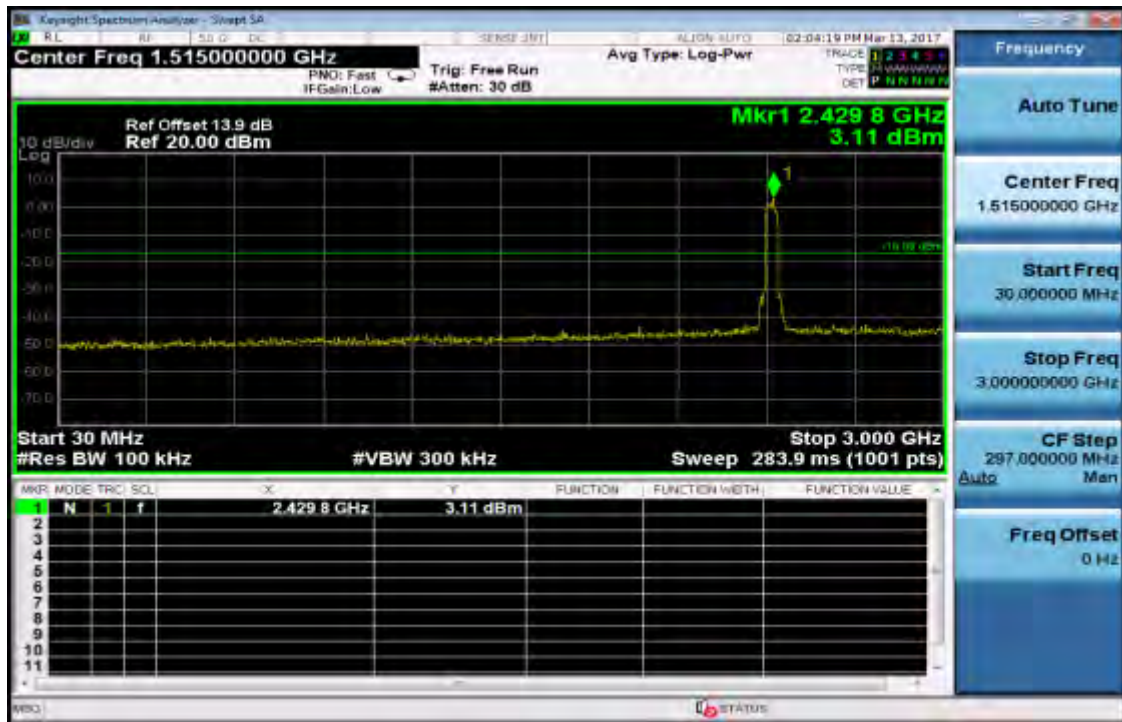
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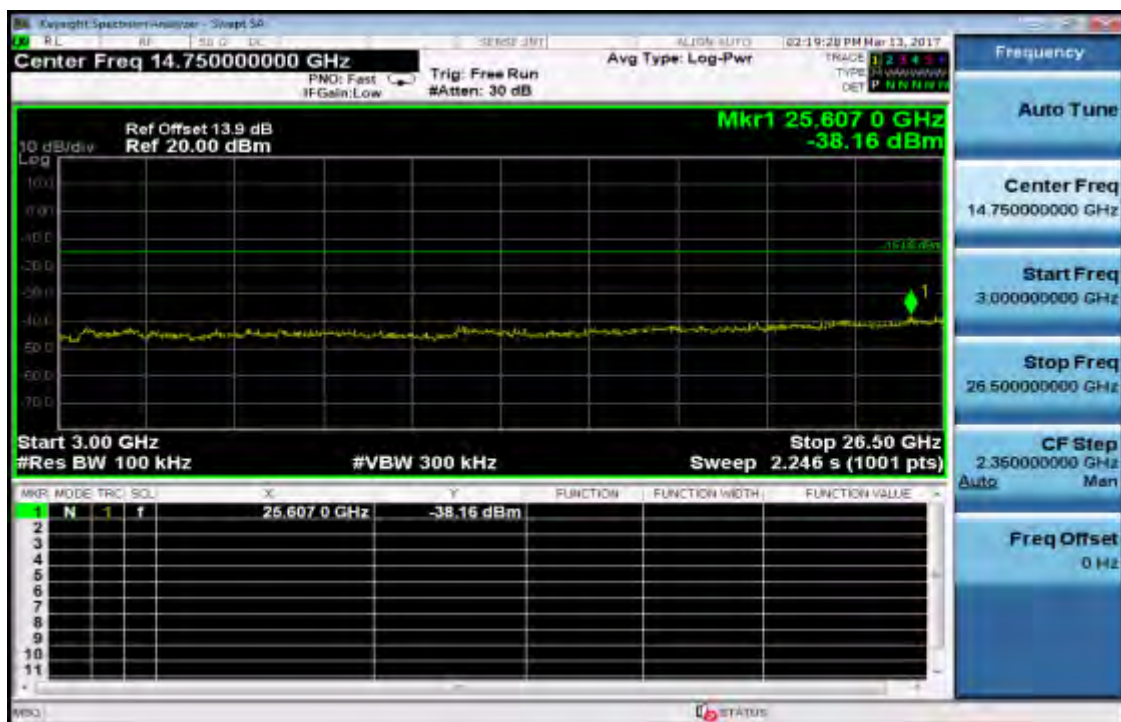
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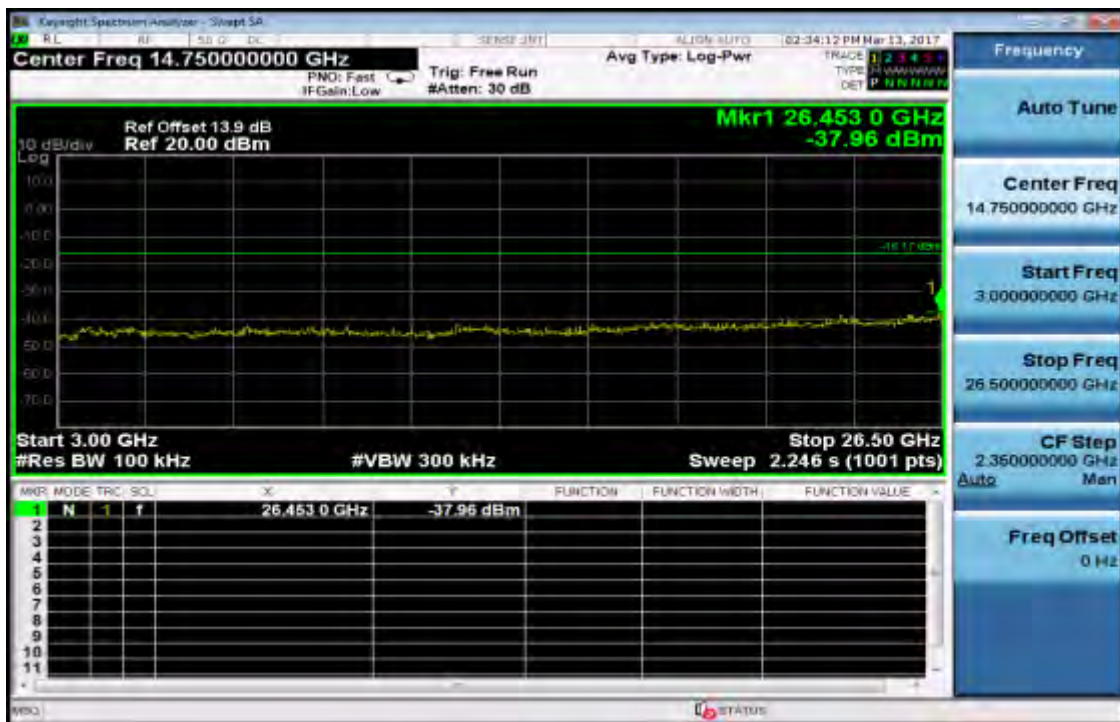
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Spurious Emission Test Data CH-High



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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 & RSS-Gen §8.8, 8.9 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13(a), 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	12/23/2016	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	R&S	SCU-26	100780	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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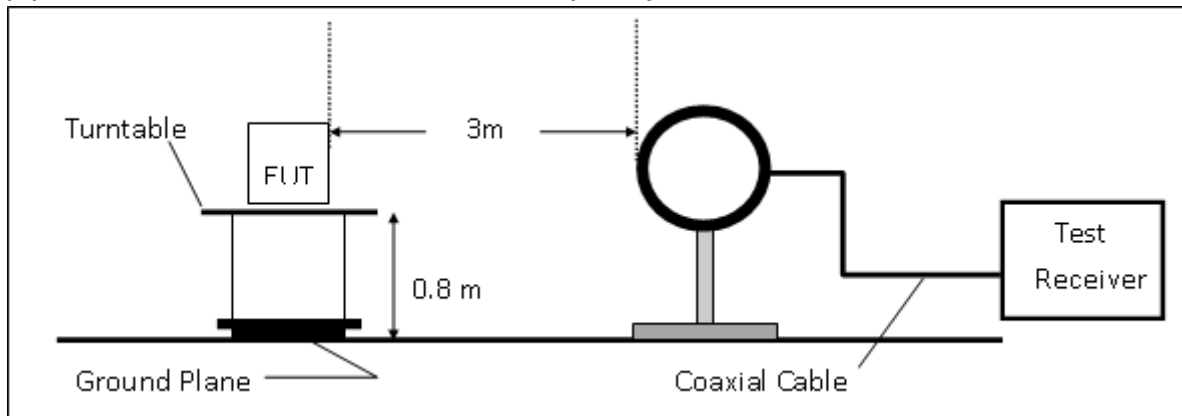
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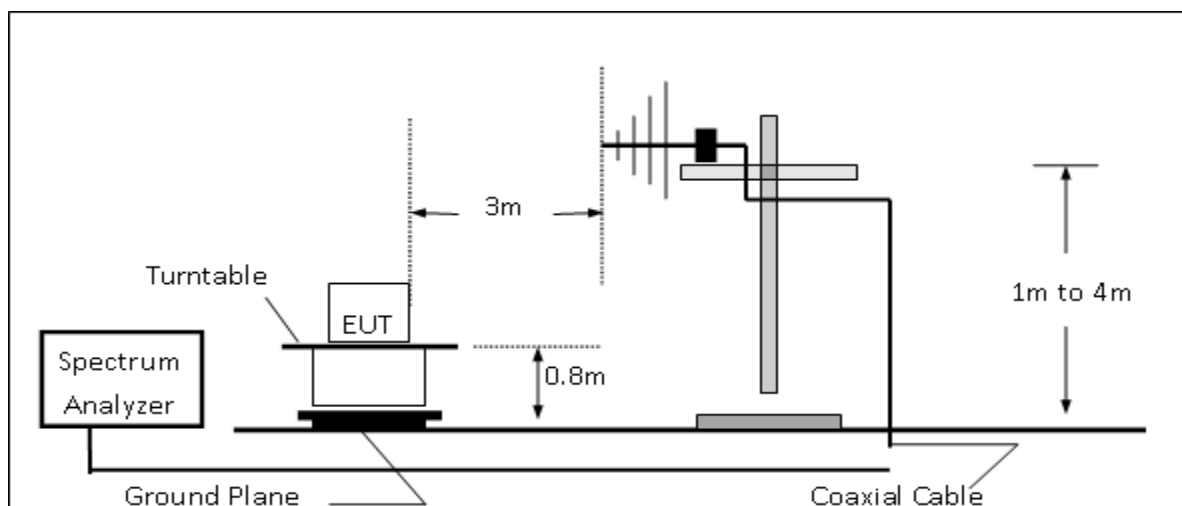
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11.3 Test SET-UP

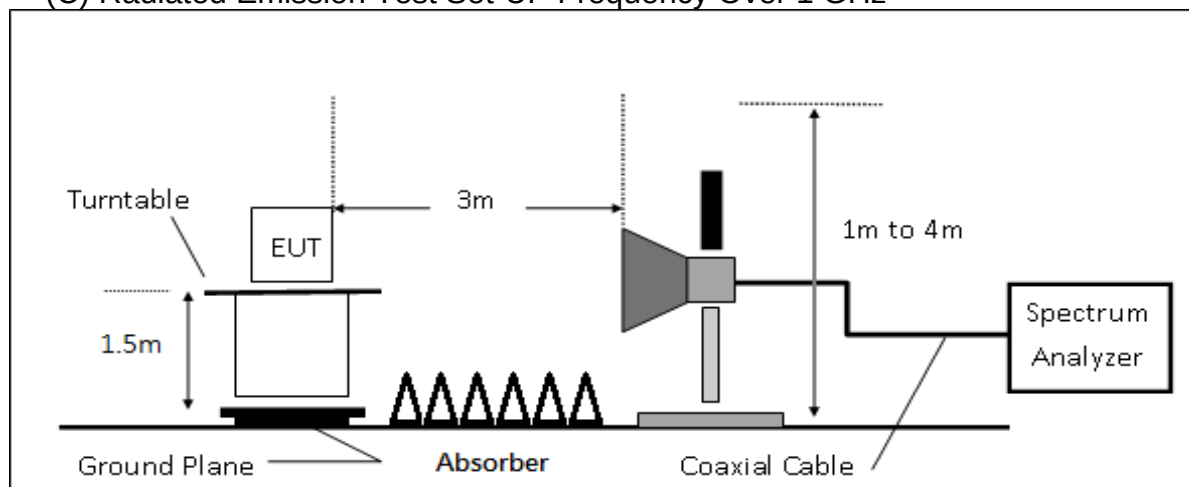
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 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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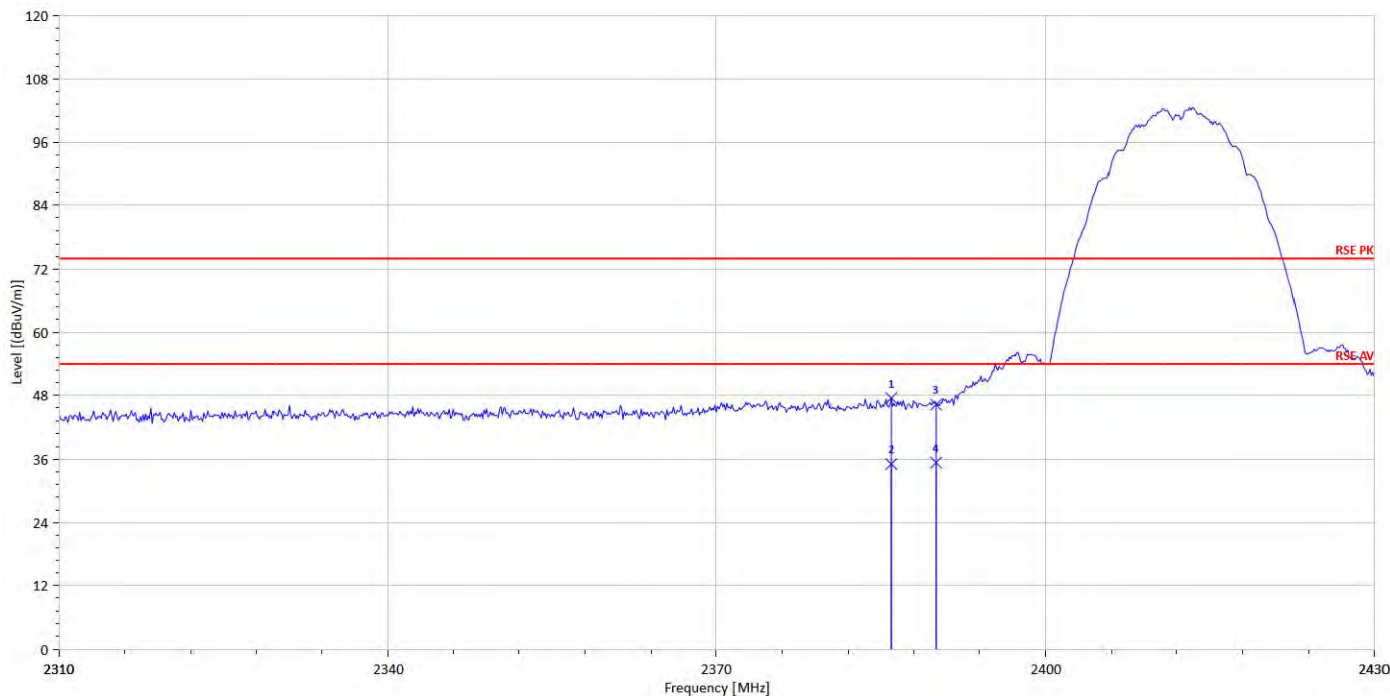
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Radiated Band Edge Measurement Result (802.11b)

Operation Mode :	802.11b	Test Date :	2017/3/16
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH Low	Test Engineer :	Penny
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
2385.96	S	Peak	46.63	0.86	47.49	74	-26.51
2385.96	S	Average	34.19	0.86	35.05	54	-18.95
2390.00	E	Peak	45.32	0.92	46.25	74	-27.75
2390.00	E	Average	34.40	0.92	35.32	54	-18.68

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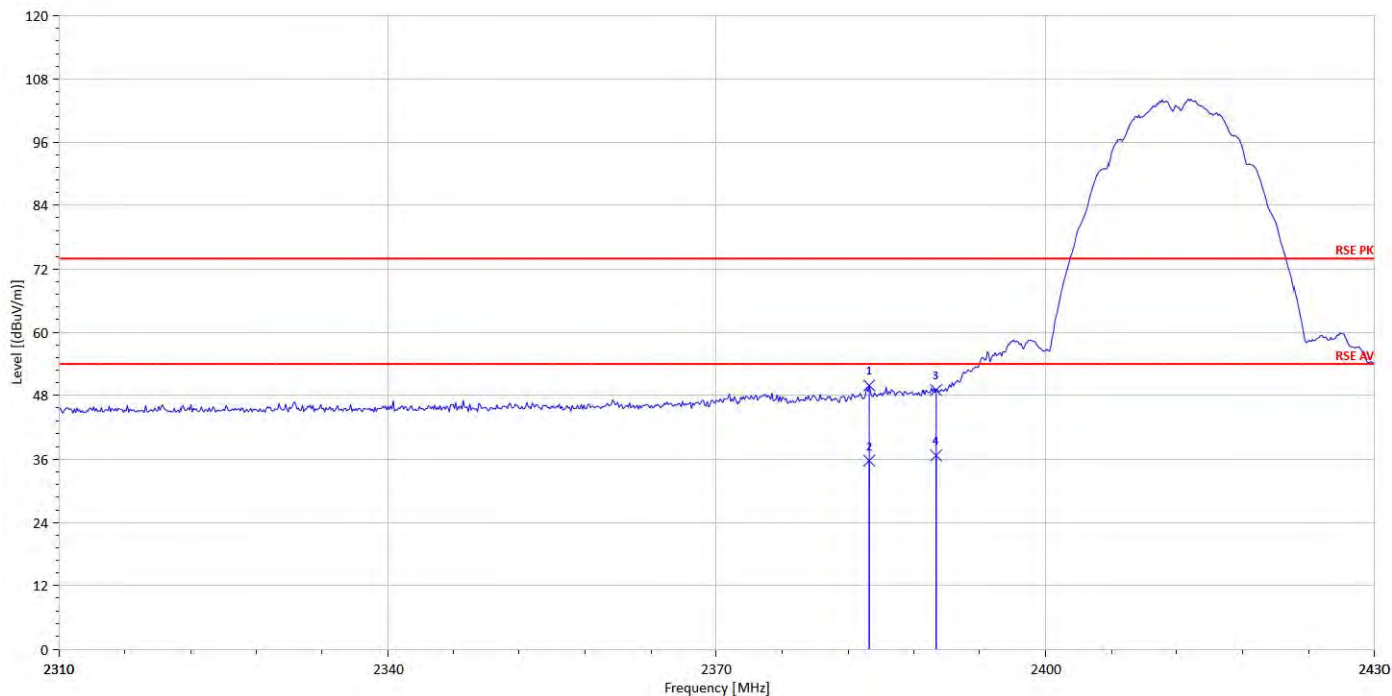
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Operation Mode :	802.11b	Test Date :	2017/3/16
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2383.92	S	Peak	49.07	0.83	49.90	74	-24.10
2383.92	S	Average	34.88	0.83	35.71	54	-18.29
2390.00	E	Peak	48.10	0.92	49.03	74	-24.97
2390.00	E	Average	35.79	0.92	36.71	54	-17.29

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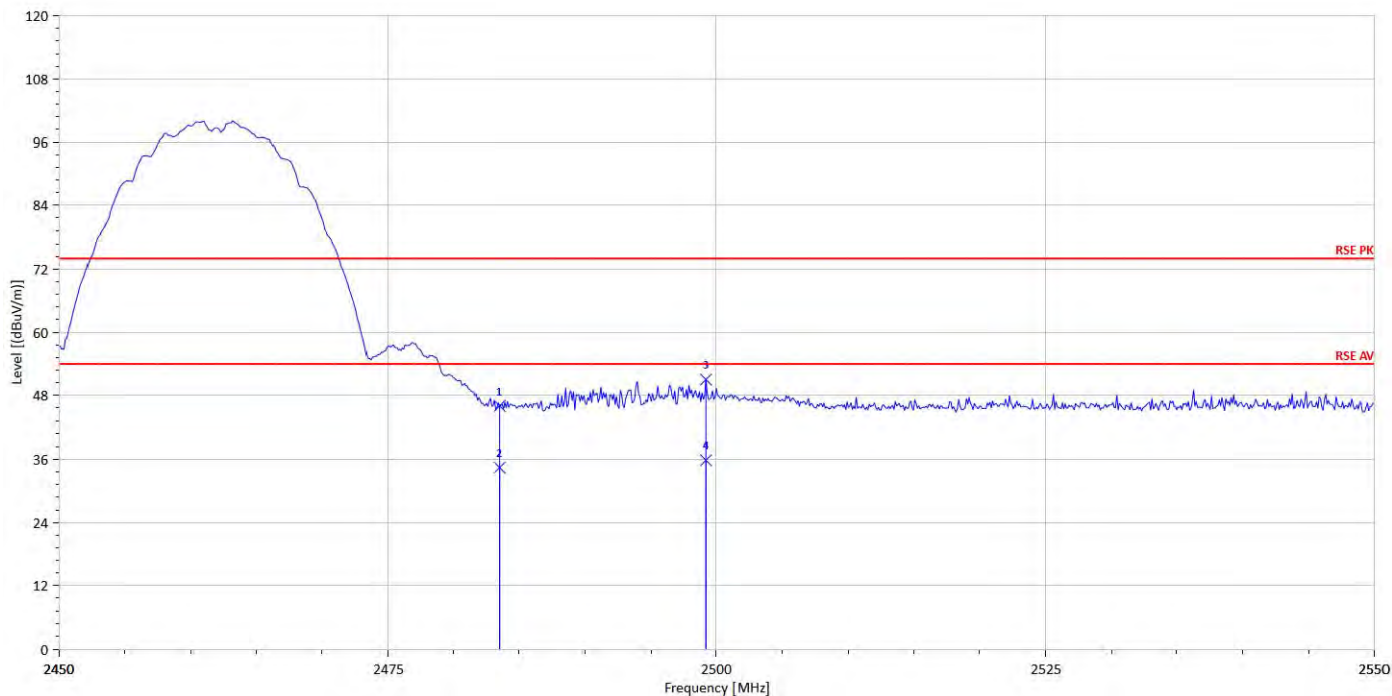
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Operation Mode :	802.11b	Test Date :	2017/3/16
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
2483.50	E	Peak	44.84	1.16	46.00	74	-28.00
2483.50	E	Average	33.21	1.16	34.37	54	-19.63
2499.20	S	Peak	49.88	1.15	51.03	74	-22.97
2499.20	S	Average	34.63	1.15	35.78	54	-18.22

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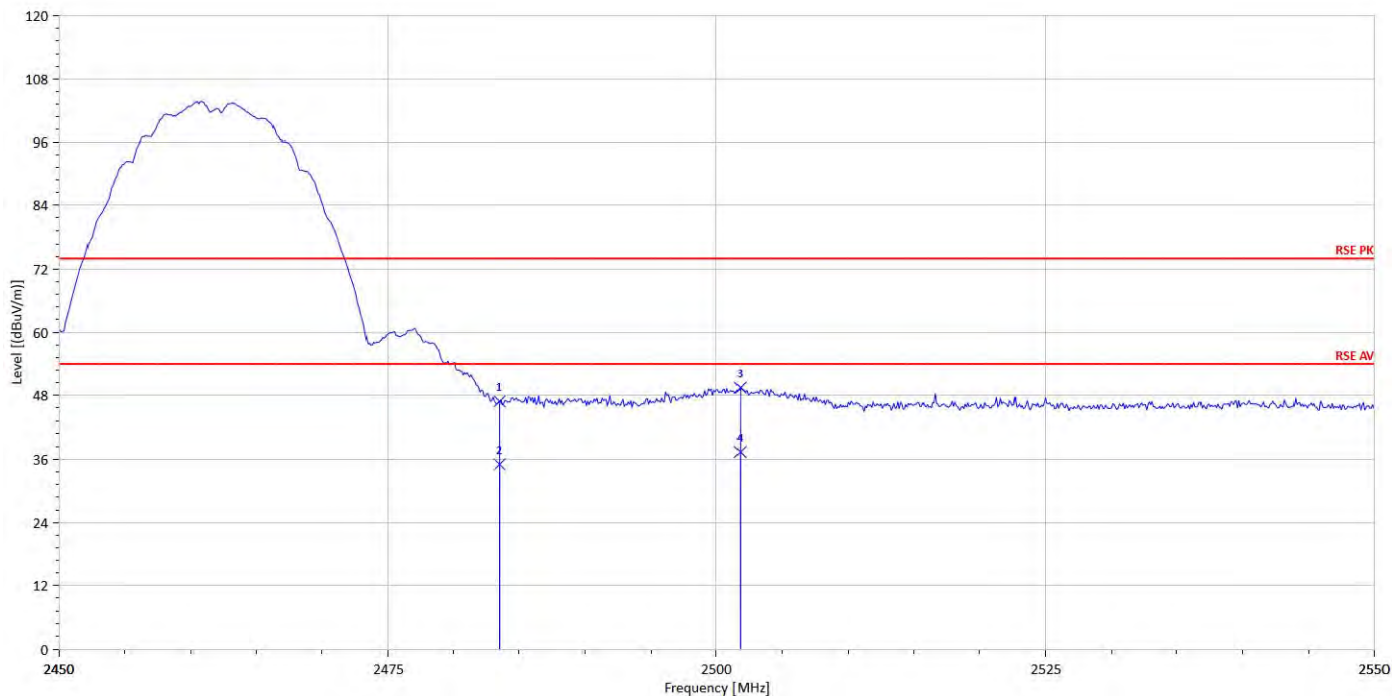
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Fundamental Frequency :	2462 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
2483.50	E	Peak	45.71	1.16	46.87	74	-27.13
2483.50	E	Average	33.84	1.16	35.00	54	-19.00
2501.80	S	Peak	48.32	1.17	49.49	74	-24.51
2501.80	S	Average	36.17	1.17	37.34	54	-16.66

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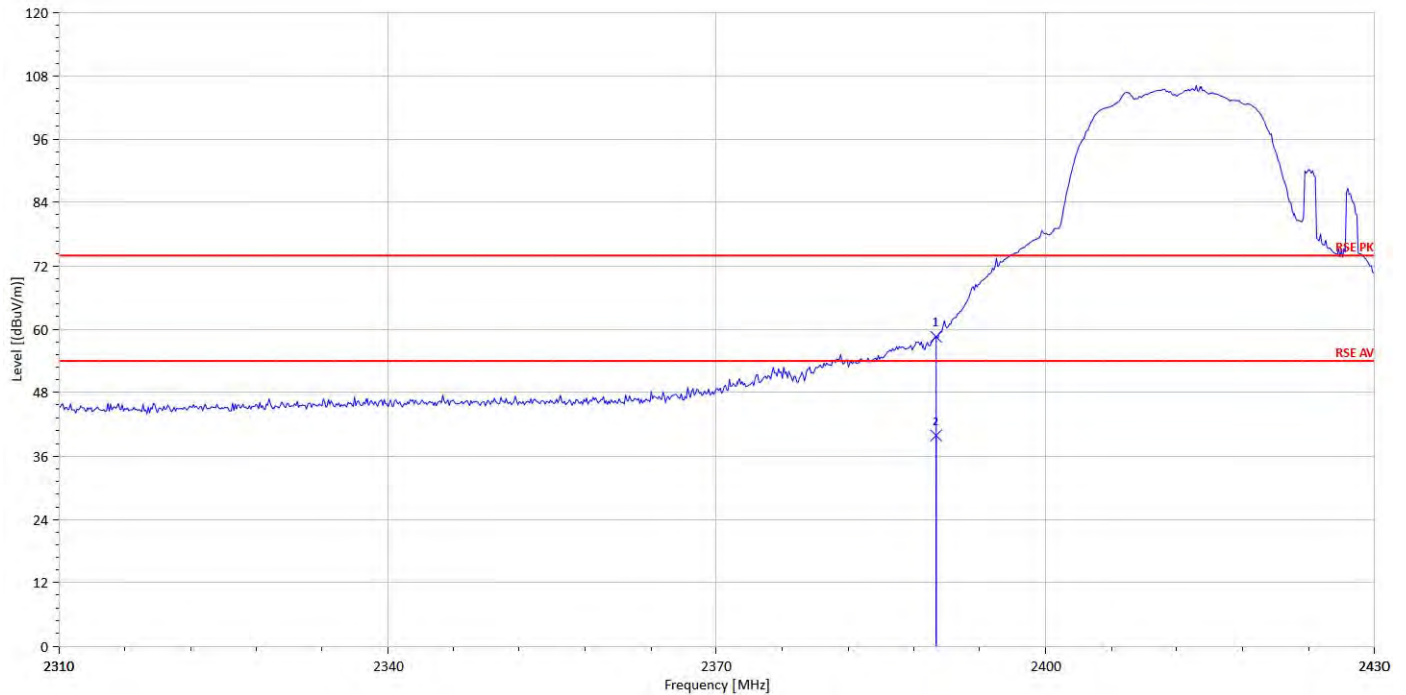
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Radiated Band Edge Measurement Result (802.11g)

Operation Mode :	802.11g	Test Date :	2017/3/16
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH Low	Test Engineer :	Penny
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
2390.00	E	Peak	57.73	0.92	58.65	74	-15.35
2390.00	E	Peak	39.03	0.92	39.95	74	-34.05

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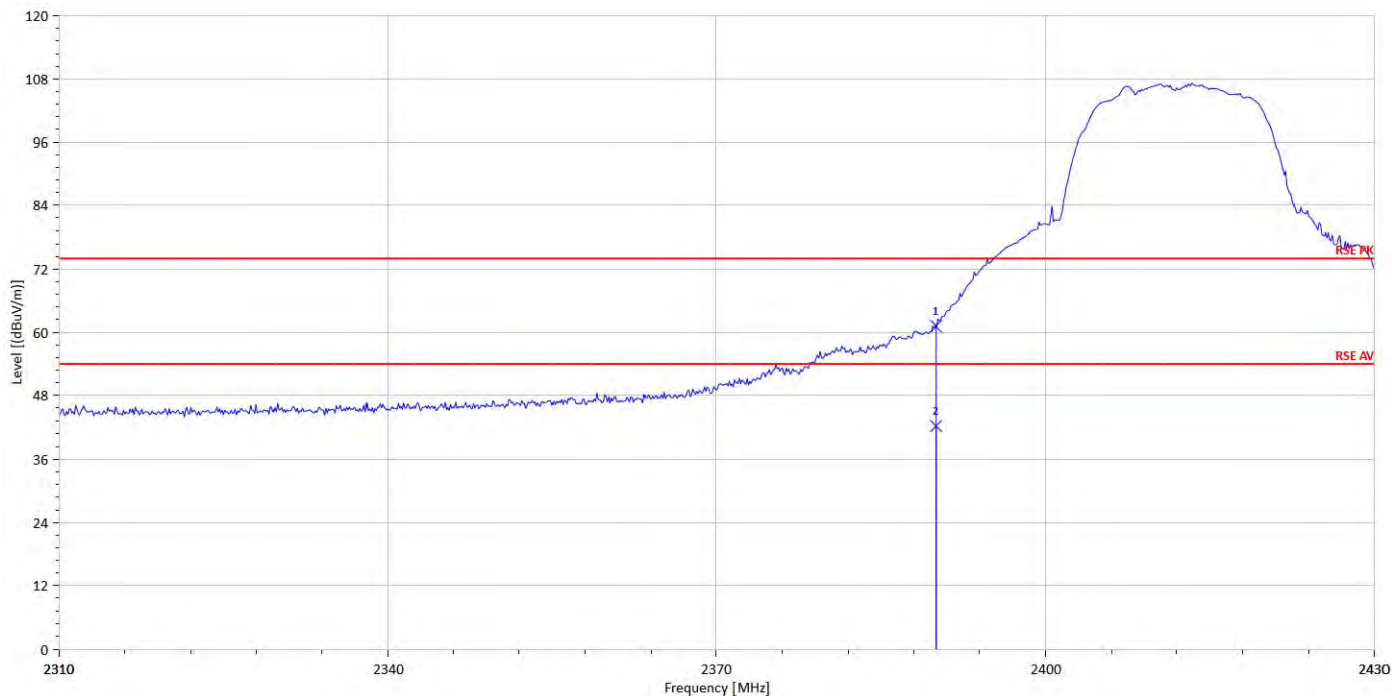
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Operation Mode :	802.11g	Test Date :	2017/3/16
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
2390.00	E	Peak	60.22	0.92	61.14	74	-12.86
2390.00	E	Peak	41.40	0.92	42.32	74	-31.68

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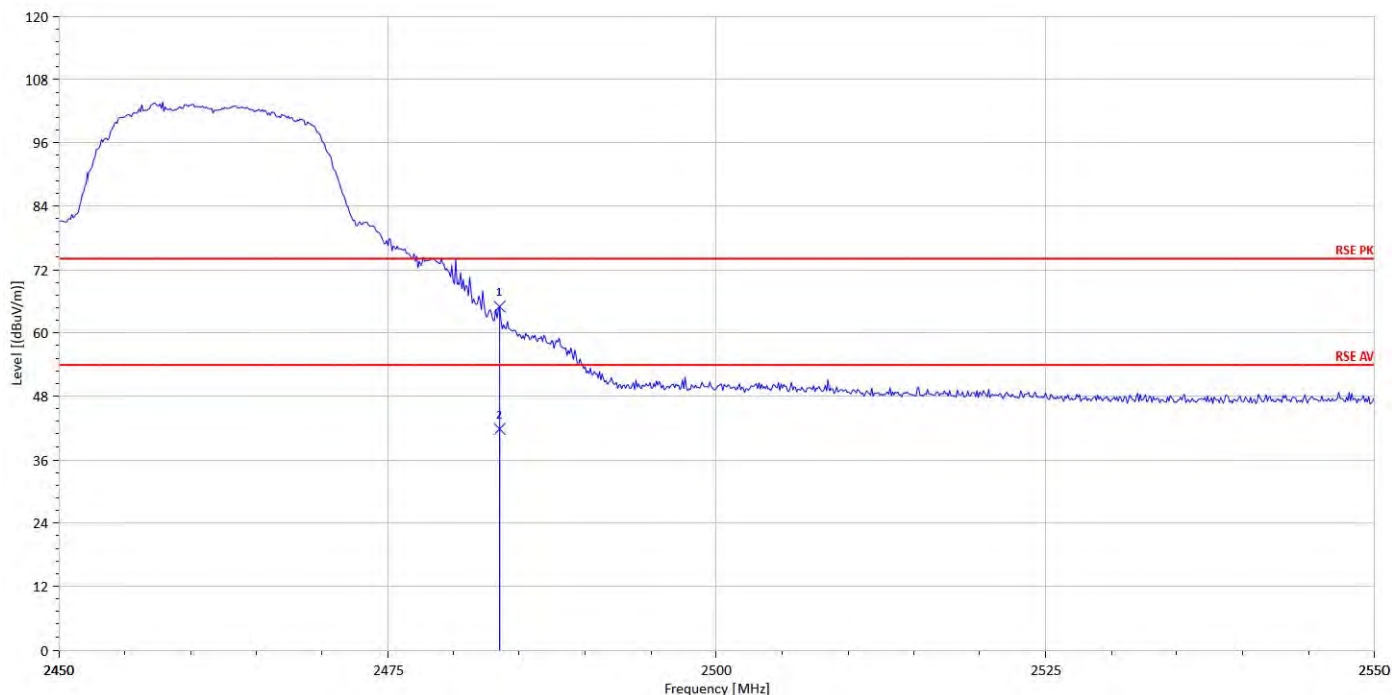
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Operation Mode :	802.11g	Test Date :	2017/3/16
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	63.84	1.16	65.00	74	-9.00
2483.50	E	Average	40.61	1.16	41.77	54	-12.23

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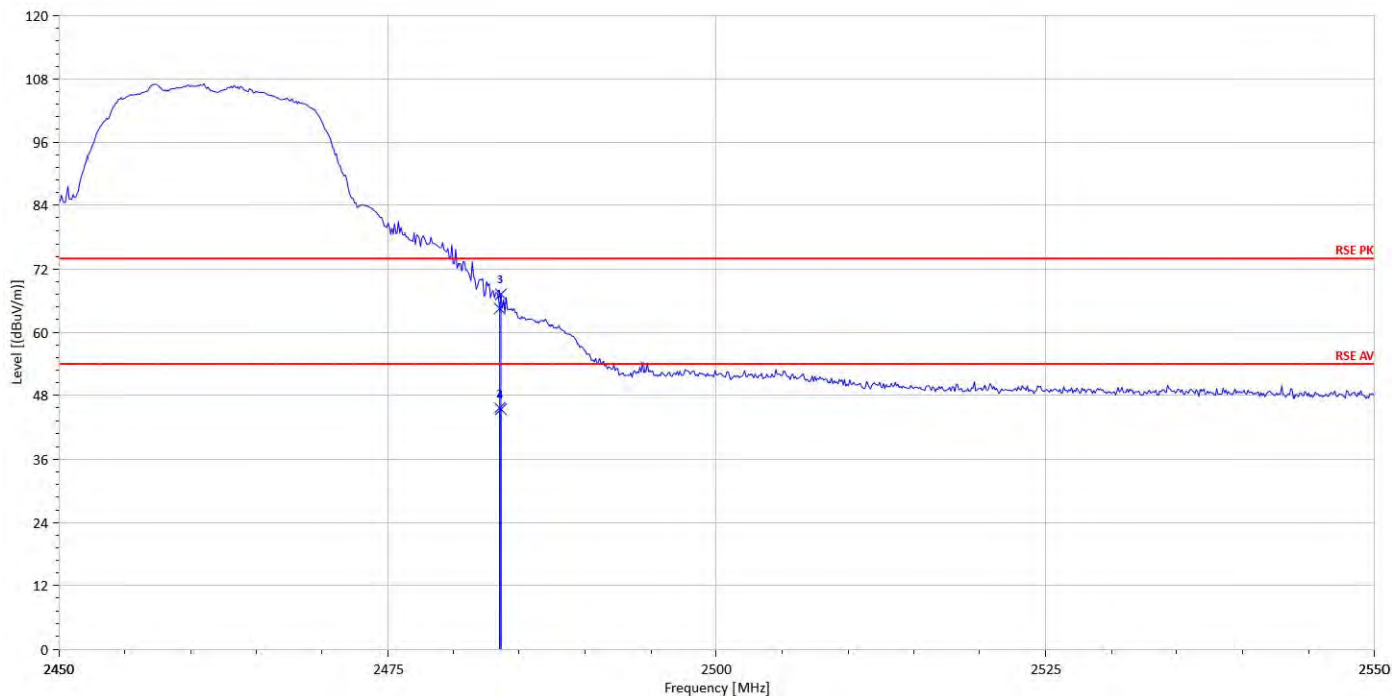
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Operation Mode :	802.11g	Test Date :	2017/3/16
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	E	Peak	63.28	1.16	64.44	74	-9.56
2483.50	E	Average	44.44	1.16	45.60	54	-8.40
2483.60	S	Peak	66.02	1.16	67.18	74	-6.82
2483.60	S	Average	44.20	1.16	45.36	54	-8.64

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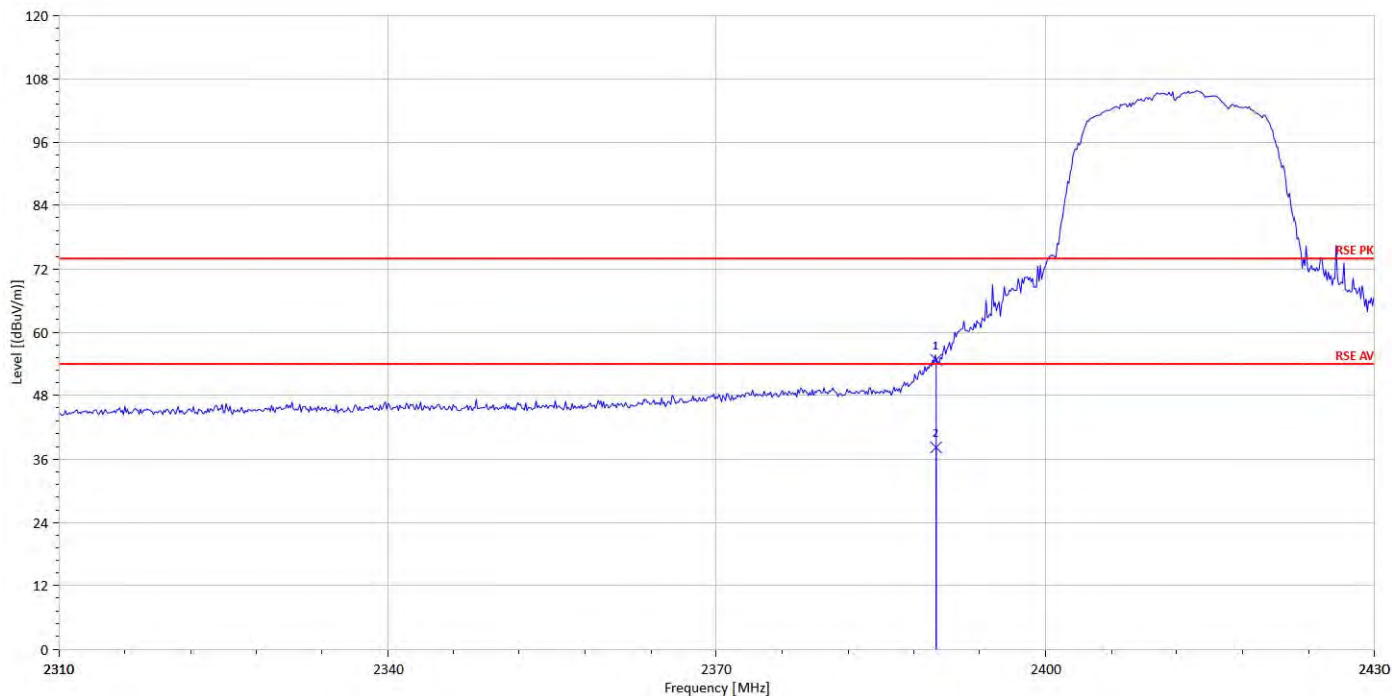
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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	2017/3/16
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH Low	Test Engineer :	Penny
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
2390.00	E	Peak	53.89	0.92	54.81	74	-19.19
2390.00	E	Average	37.32	0.92	38.24	54	-15.76

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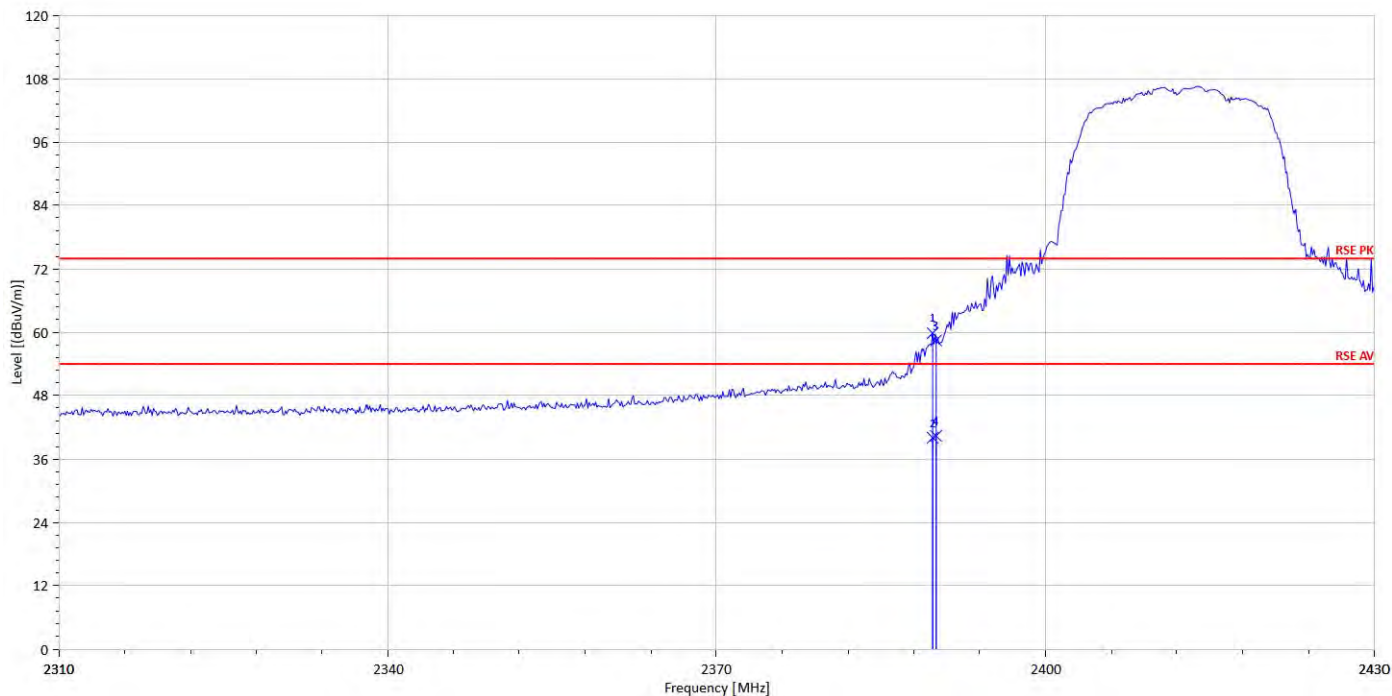
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Operation Mode :	802.11n20	Test Date :	2017/3/16
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
2389.68	S	Peak	59.00	0.92	59.92	74	-14.08
2389.68	S	Average	39.17	0.92	40.09	54	-13.91
2390.00	E	Peak	57.60	0.92	58.53	74	-15.47
2390.00	E	Average	39.51	0.92	40.43	54	-13.57

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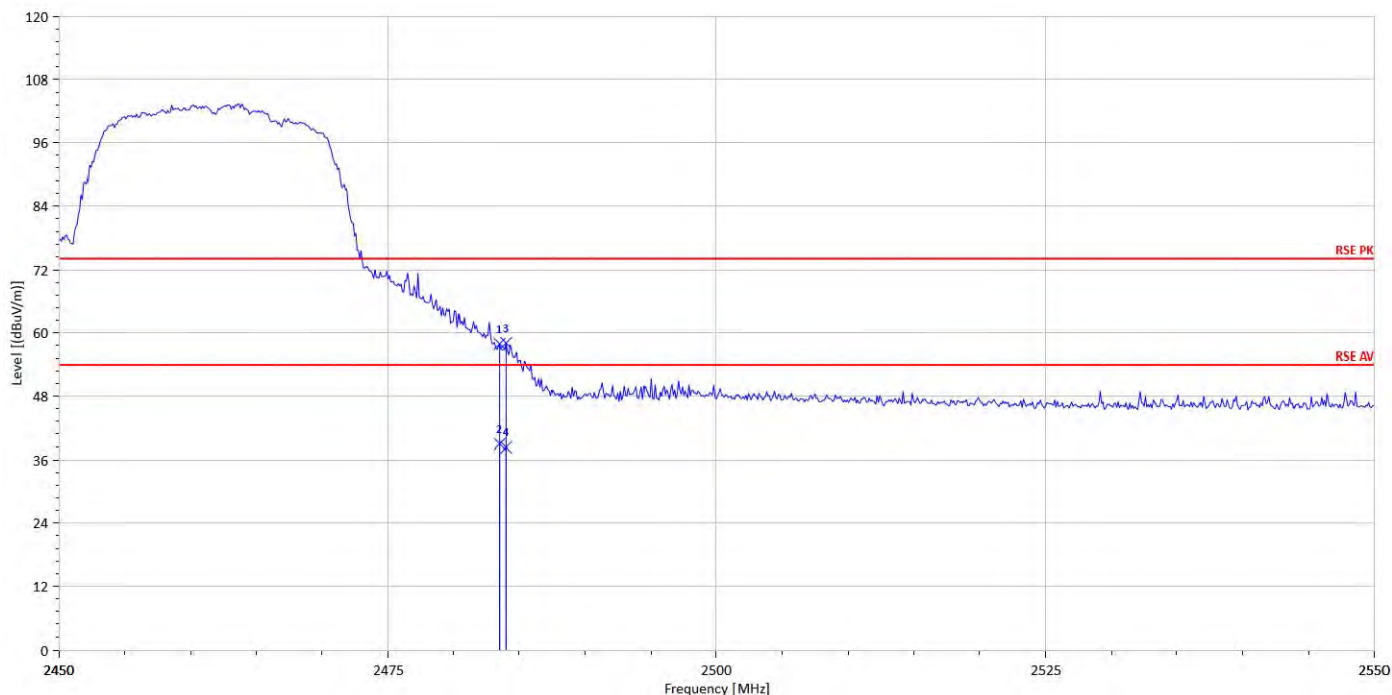
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Operation Mode :	802.11n20	Test Date :	2017/3/16
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	56.72	1.16	57.88	74	-16.12
2483.50	E	Average	37.81	1.16	38.97	54	-15.03
2484.00	S	Peak	56.88	1.16	58.04	74	-15.96
2484.00	S	Average	37.17	1.16	38.33	54	-15.67

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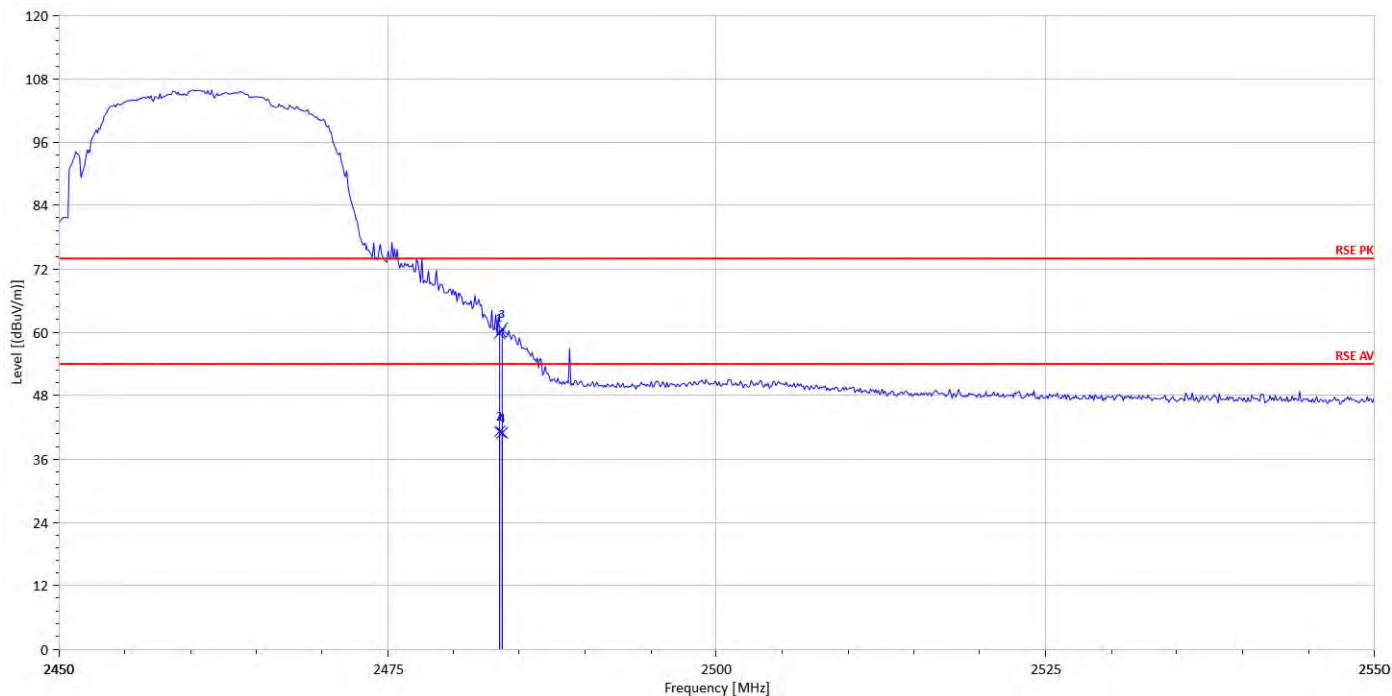
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Operation Mode :	802.11n20	Test Date :	2017/3/16
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
2483.50	E	Peak	58.76	1.16	59.92	74	-14.08
2483.50	E	Average	40.13	1.16	41.29	54	-12.71
2483.70	S	Peak	59.50	1.16	60.66	74	-13.34
2483.70	S	Average	39.88	1.16	41.04	54	-12.96

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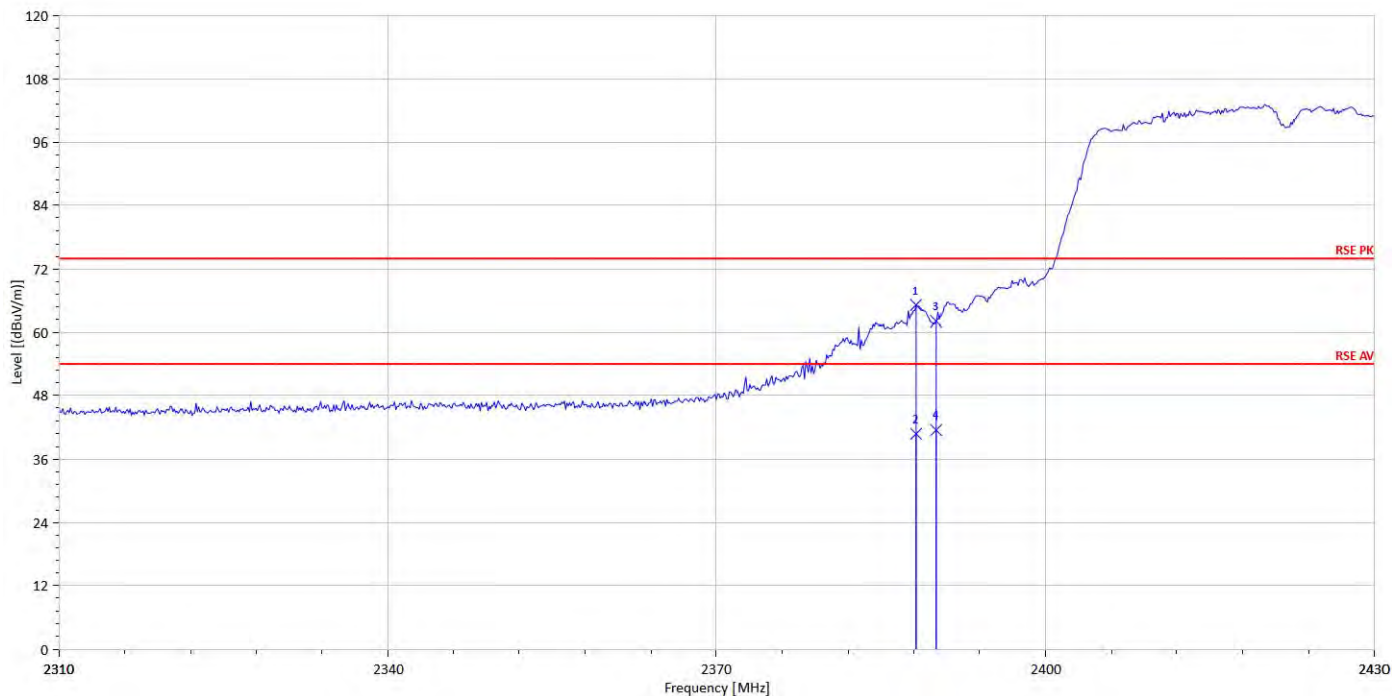
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Radiated Band Edge Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	2017/3/16
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH Low	Test Engineer :	Penny
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
2388.24	S	Peak	64.24	0.90	65.13	74	-8.87
2388.24	S	Average	39.94	0.90	40.84	54	-13.16
2390.00	E	Peak	61.15	0.92	62.07	74	-11.93
2390.00	E	Average	40.63	0.92	41.55	54	-12.45

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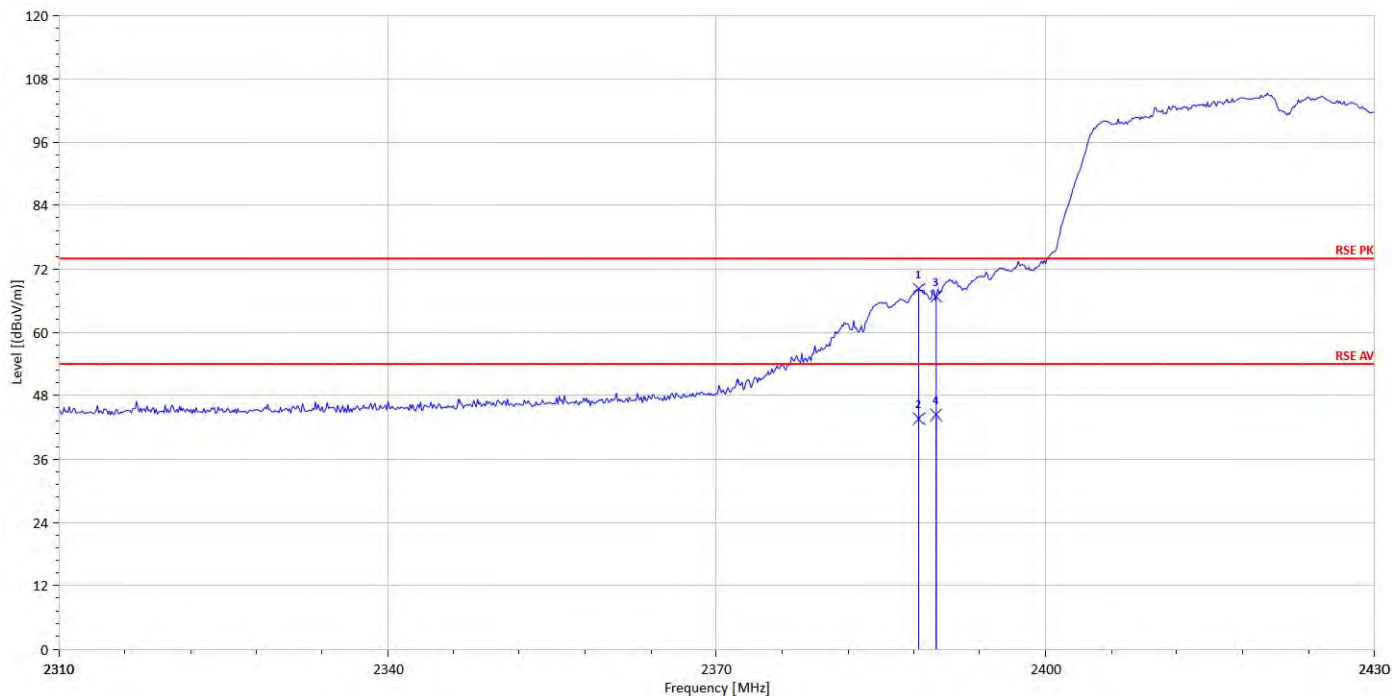
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Operation Mode :	802.11n40	Test Date :	2017/3/16
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
2388.48	S	Peak	67.32	0.90	68.22	74	-5.78
2388.48	S	Average	42.74	0.90	43.64	54	-10.36
2390.00	E	Peak	65.79	0.92	66.71	74	-7.29
2390.00	E	Average	43.43	0.92	44.35	54	-9.65

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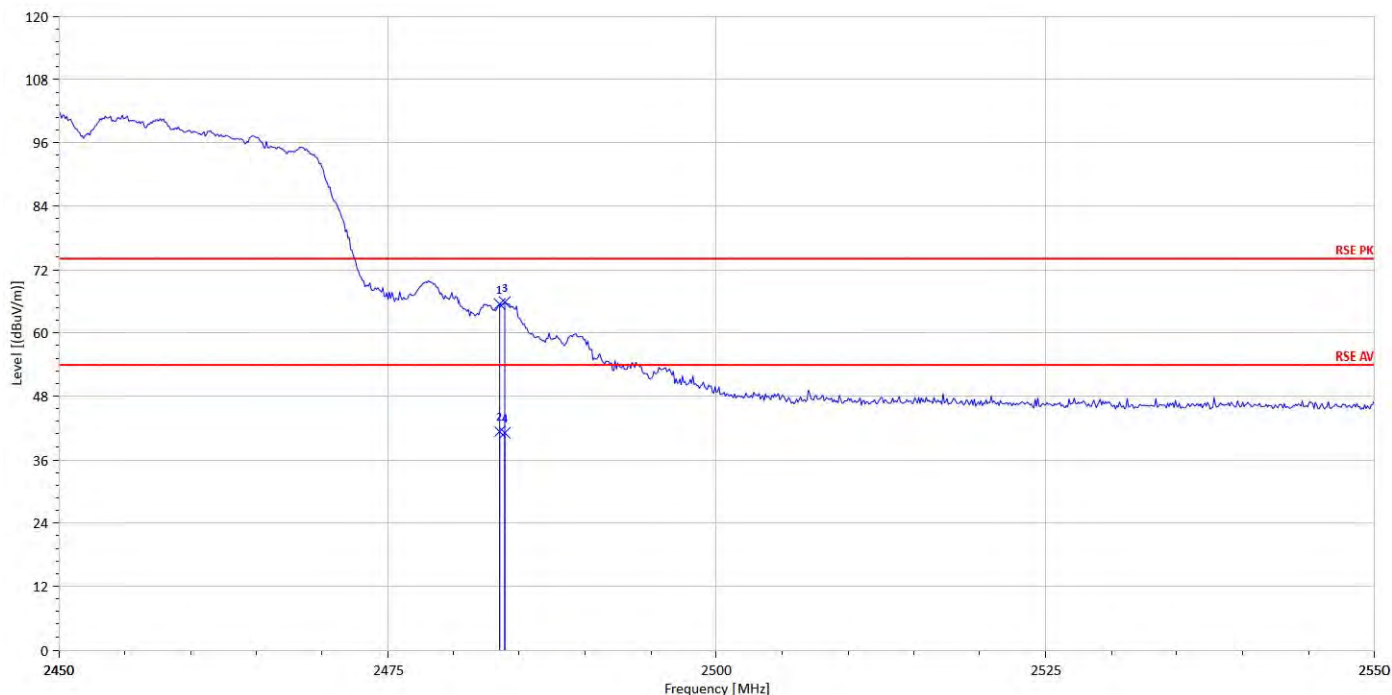
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Operation Mode :	802.11n40	Test Date :	2017/3/16
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	64.33	1.16	65.49	74	-8.51
2483.50	E	Average	40.10	1.16	41.26	54	-12.74
2483.90	S	Peak	64.68	1.16	65.84	74	-8.16
2483.90	S	Average	39.86	1.16	41.02	54	-12.98

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Operation Mode :	802.11n40	Test Date :	2017/3/16
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	BE CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Peak	66.84	1.16	68.00	74	-6.00
2483.50	E	Average	42.47	1.16	43.63	54	-10.37
2483.80	S	Peak	67.62	1.16	68.78	74	-5.22
2483.80	S	Average	42.31	1.16	43.47	54	-10.53

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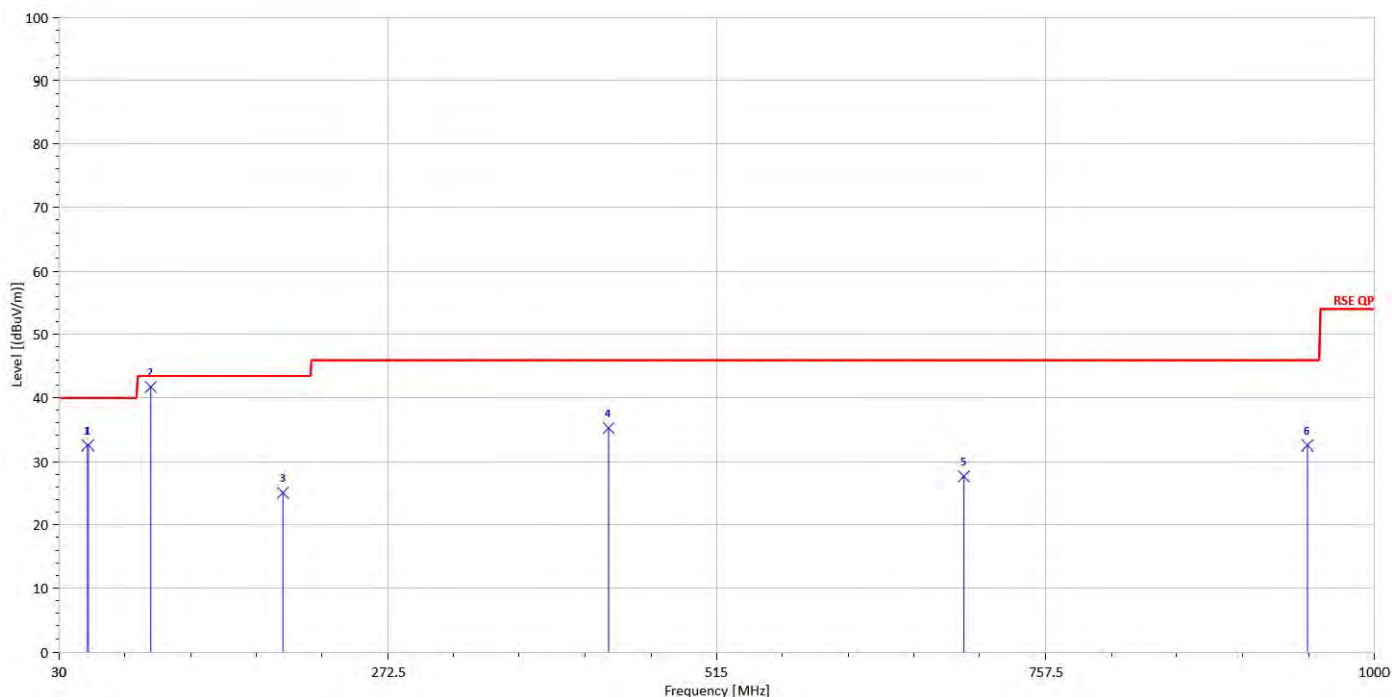
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Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	2017/3/16
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
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
51.34	S	Peak	52.39	-19.88	32.51	40	-7.49
97.90	S	Peak	59.84	-18.10	41.74	43.5	-1.76
194.90	S	Peak	42.91	-17.85	25.06	43.5	-18.44
435.46	S	Peak	44.41	-9.20	35.21	46	-10.79
697.36	S	Peak	32.81	-5.14	27.67	46	-18.33
950.53	S	Peak	34.54	-2.06	32.48	46	-13.52

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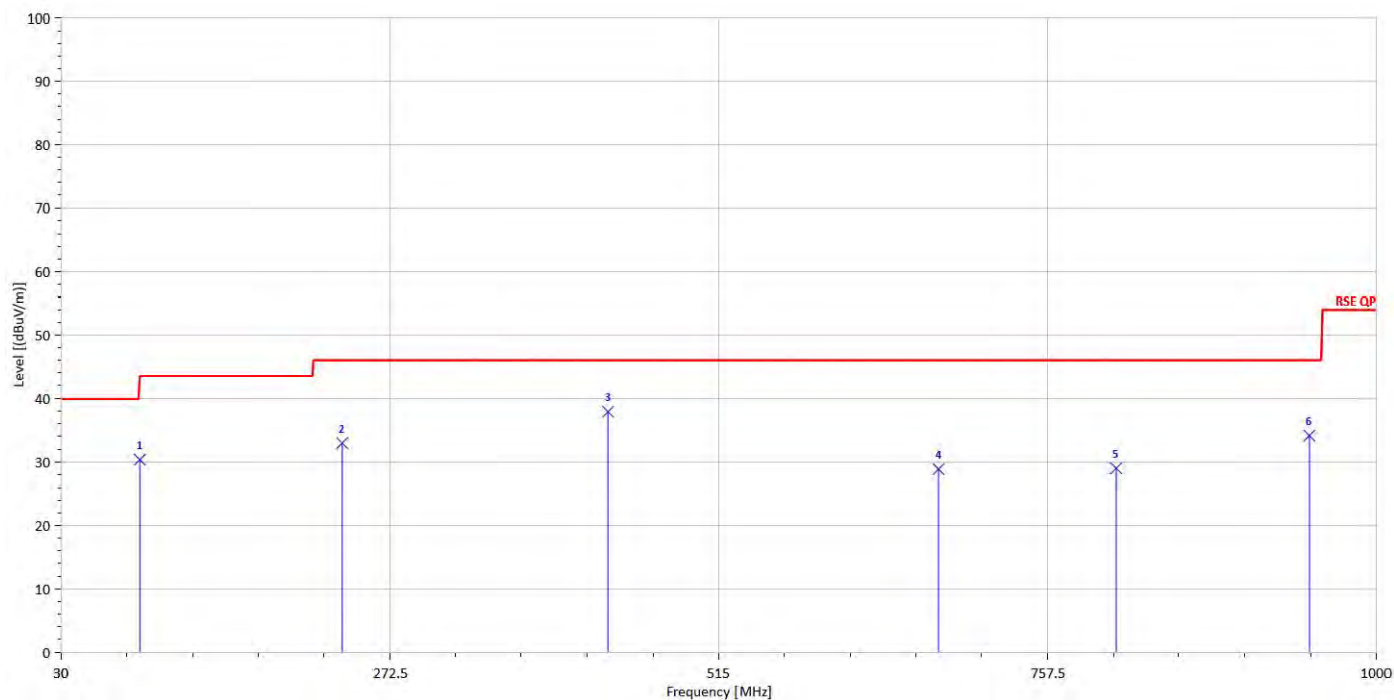
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Operation Mode :	802.11g	Test Date :	2017/3/16
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
88.20	S	Peak	50.11	-19.77	30.34	43.5	-13.16
237.58	S	Peak	48.50	-15.53	32.97	46	-13.03
433.52	S	Peak	47.52	-9.55	37.97	46	-8.03
676.99	S	Peak	34.00	-5.17	28.82	46	-17.18
807.94	S	Peak	32.17	-3.20	28.96	46	-17.04
950.53	S	Peak	36.22	-2.06	34.16	46	-11.84

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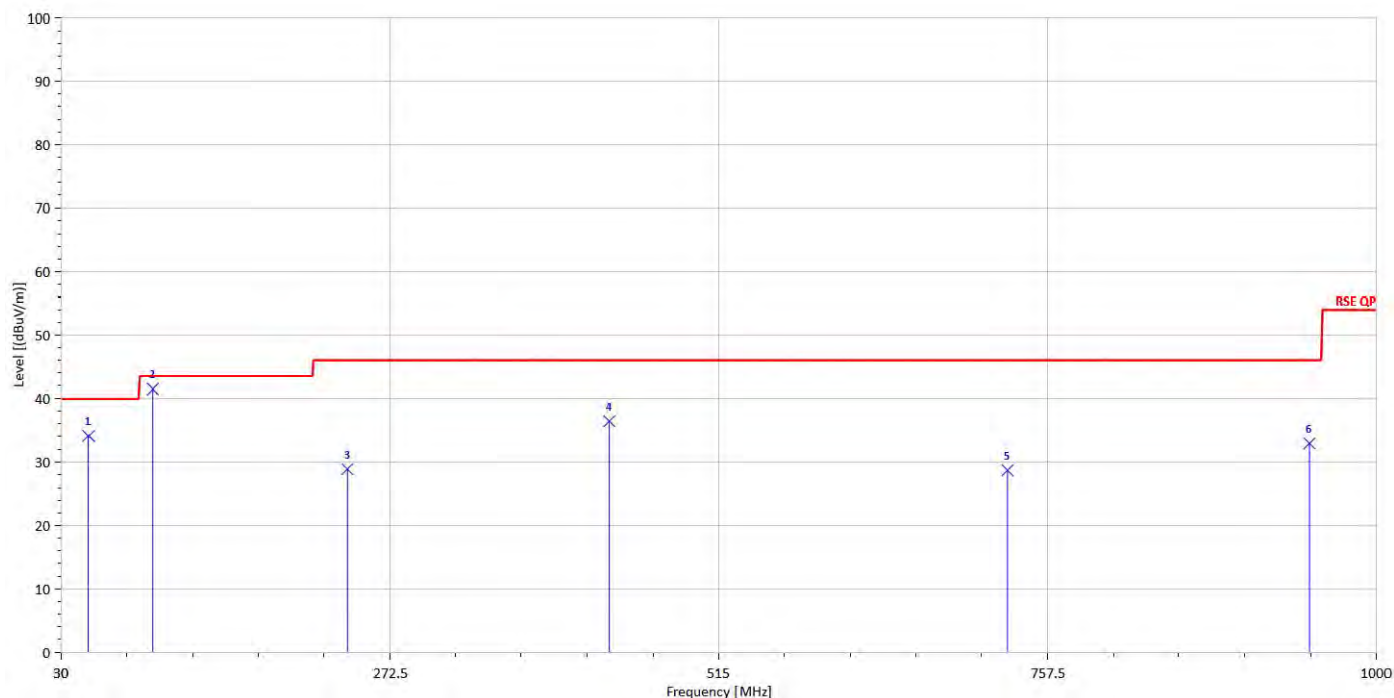
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Operation Mode :	802.11g	Test Date :	2017/3/16
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
50.37	S	Peak	53.67	-19.55	34.11	40	-5.89
97.90	S	Peak	59.59	-18.10	41.49	43.5	-2.01
241.46	S	Peak	44.04	-15.21	28.83	46	-17.17
434.49	S	Peak	45.87	-9.41	36.46	46	-9.54
728.40	S	Peak	33.30	-4.67	28.63	46	-17.37
950.53	S	Peak	34.98	-2.06	32.92	46	-13.08

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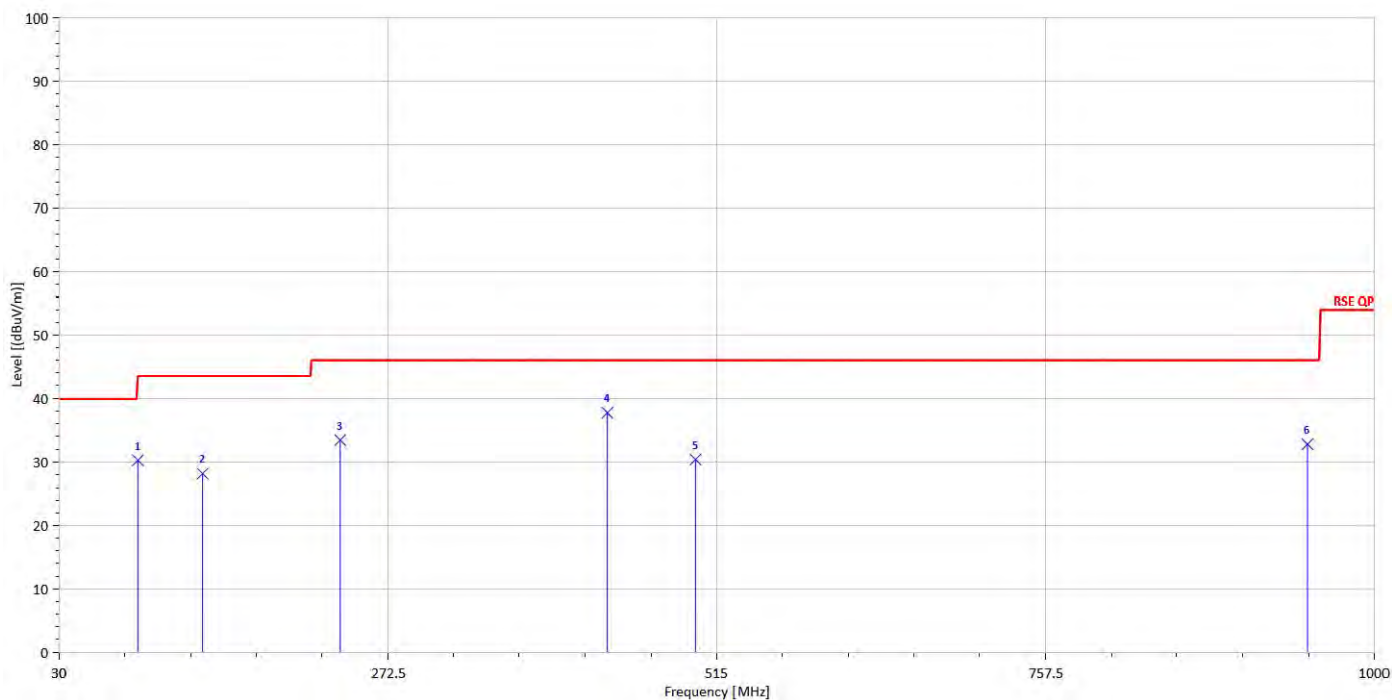
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Operation Mode :	802.11g	Test Date :	2017/3/16
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
88.20	S	Peak	50.00	-19.77	30.23	43.5	-13.27
135.73	S	Peak	43.83	-15.73	28.11	43.5	-15.39
237.58	S	Peak	48.99	-15.53	33.46	46	-12.54
434.49	S	Peak	47.21	-9.41	37.80	46	-8.20
499.48	S	Peak	38.04	-7.66	30.38	46	-15.62
950.53	S	Peak	34.85	-2.06	32.79	46	-13.21

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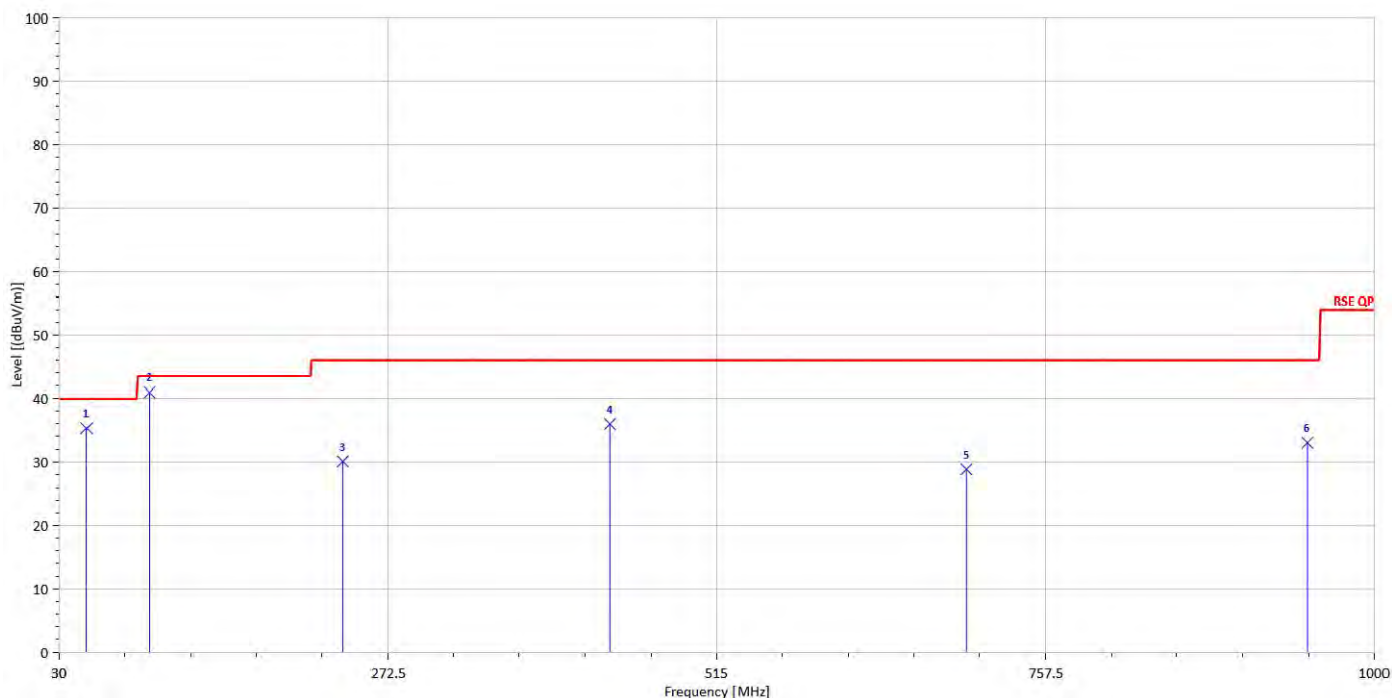
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Operation Mode :	802.11g	Test Date :	2017/3/16
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	PK/QP/AV	Reading Level dBμV	dB	FS dBμV/m	@3m dBμV/m	dB
50.37	S	Peak	54.89	-19.55	35.33	40	-4.67
96.93	S	Peak	59.25	-18.27	40.98	43.5	-2.52
239.52	S	Peak	45.34	-15.28	30.05	46	-15.95
436.43	S	Peak	45.21	-9.20	36.01	46	-9.99
699.30	S	Peak	33.89	-5.09	28.80	46	-17.20
950.53	S	Peak	35.09	-2.06	33.03	46	-12.97

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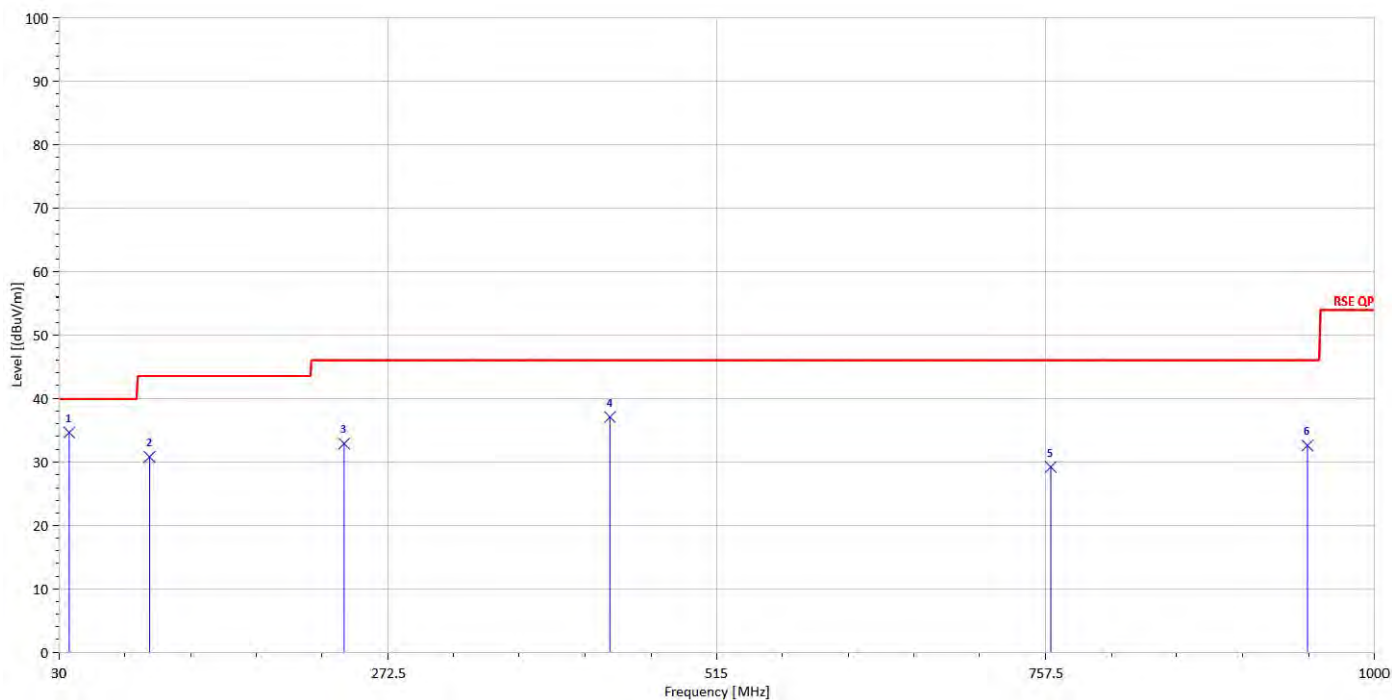
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Operation Mode :	802.11g	Test Date :	2017/3/16
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	PK/QP/AV	Reading Level	dB	dBuV/m	dBuV/m	dB
37.76	S	Peak	46.15	-11.49	34.66	40	-5.34
96.93	S	Peak	49.04	-18.27	30.77	43.5	-12.73
240.49	S	Peak	48.10	-15.21	32.88	46	-13.12
436.43	S	Peak	46.32	-9.20	37.11	46	-8.89
761.38	S	Peak	33.17	-4.00	29.17	46	-16.83
950.53	S	Peak	34.65	-2.06	32.59	46	-13.41

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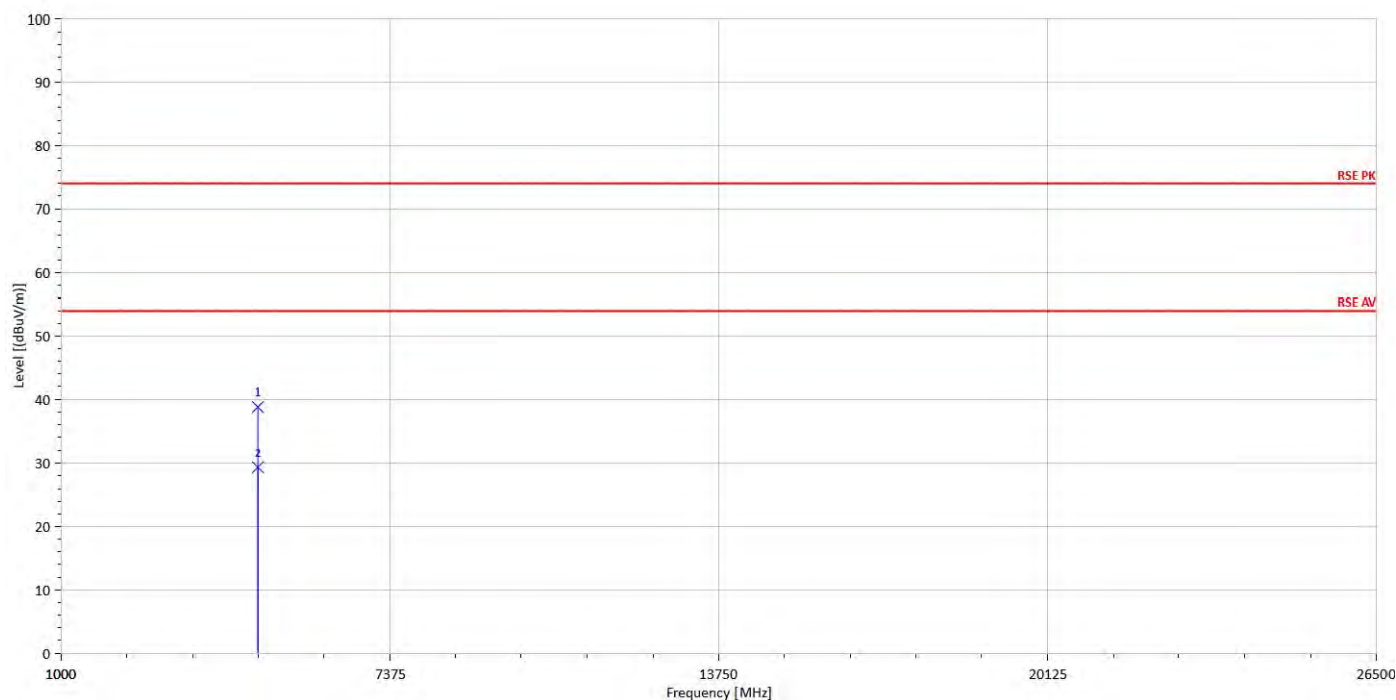
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Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Mode :	802.11b	Test Date :	2017/3/18
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	H	Peak	31.29	7.58	38.87	74	-35.13
4824.00	H	Average	21.72	7.58	29.30	54	-24.70

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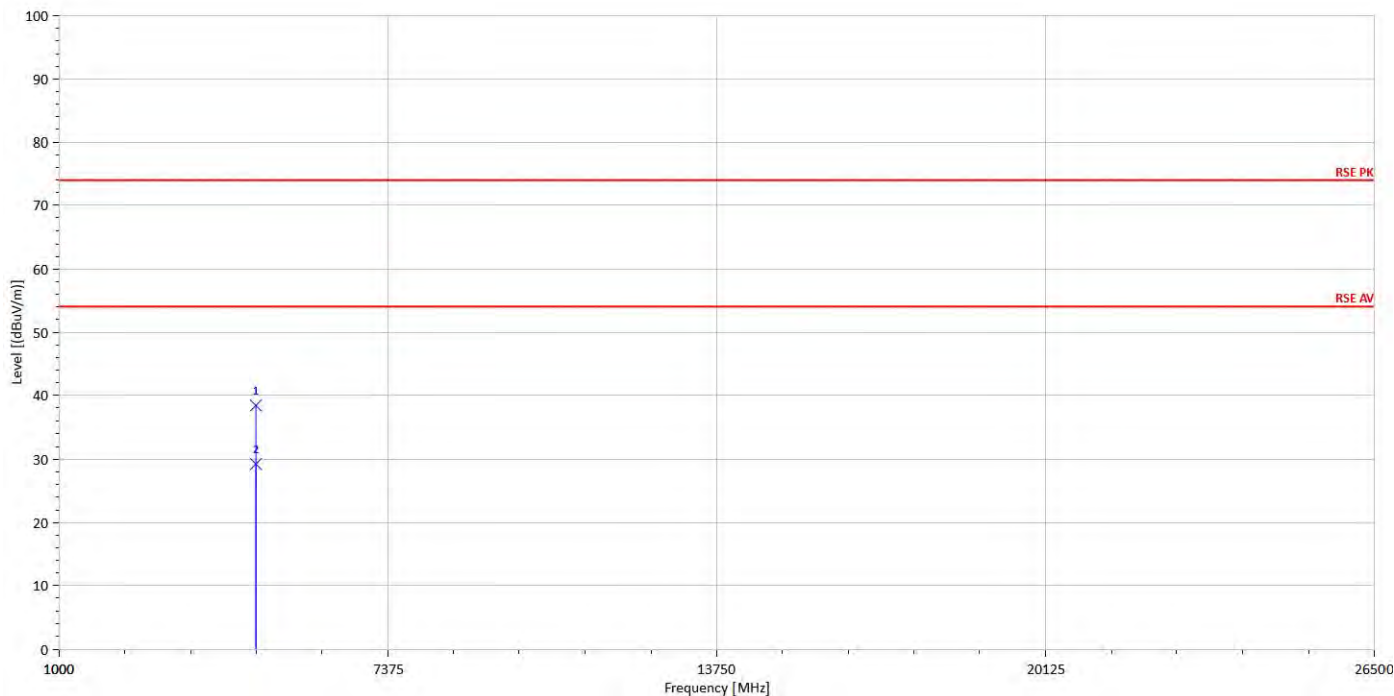
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Operation Mode :	802.11b	Test Date :	2017/3/18
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
4824.00	H	Peak	30.82	7.58	38.40	74	-35.60
4824.00	H	Average	21.63	7.58	29.21	54	-24.79

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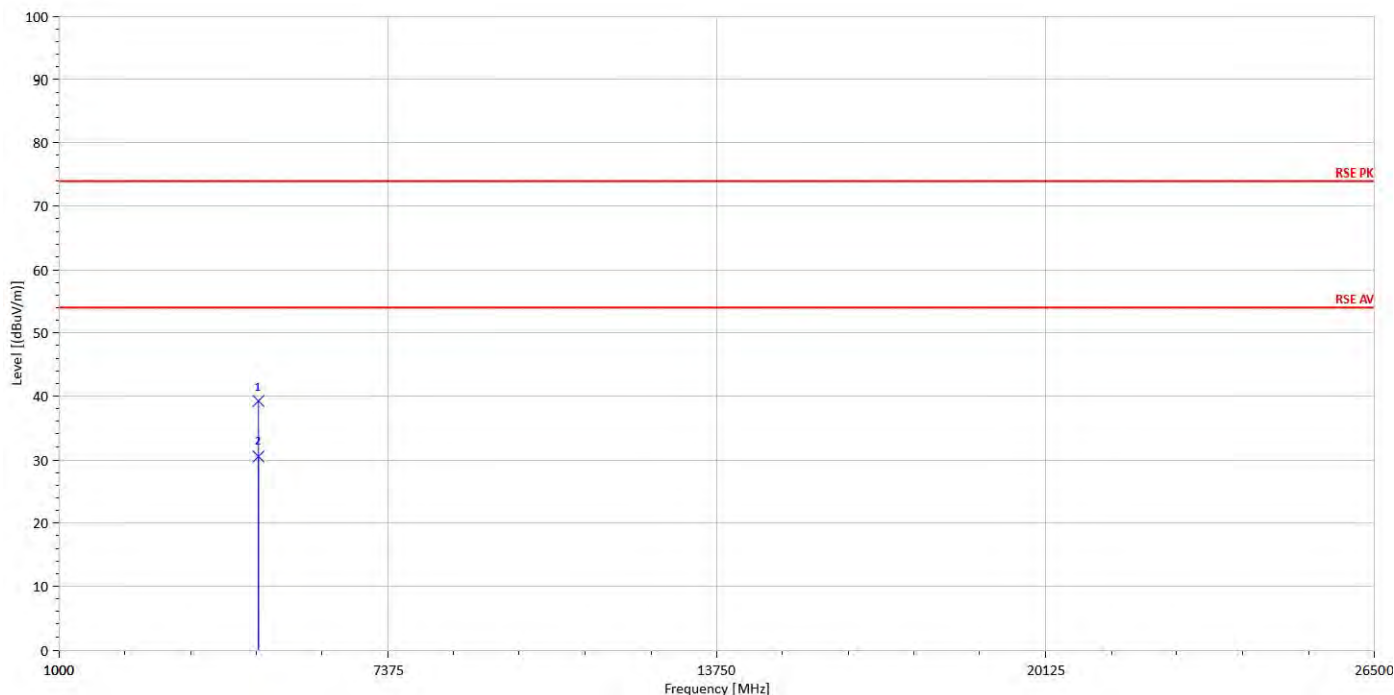
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Operation Mode :	802.11b	Test Date :	2017/3/18
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	31.36	7.91	39.27	74	-34.73
4874.00	H	Average	22.66	7.91	30.57	54	-23.43

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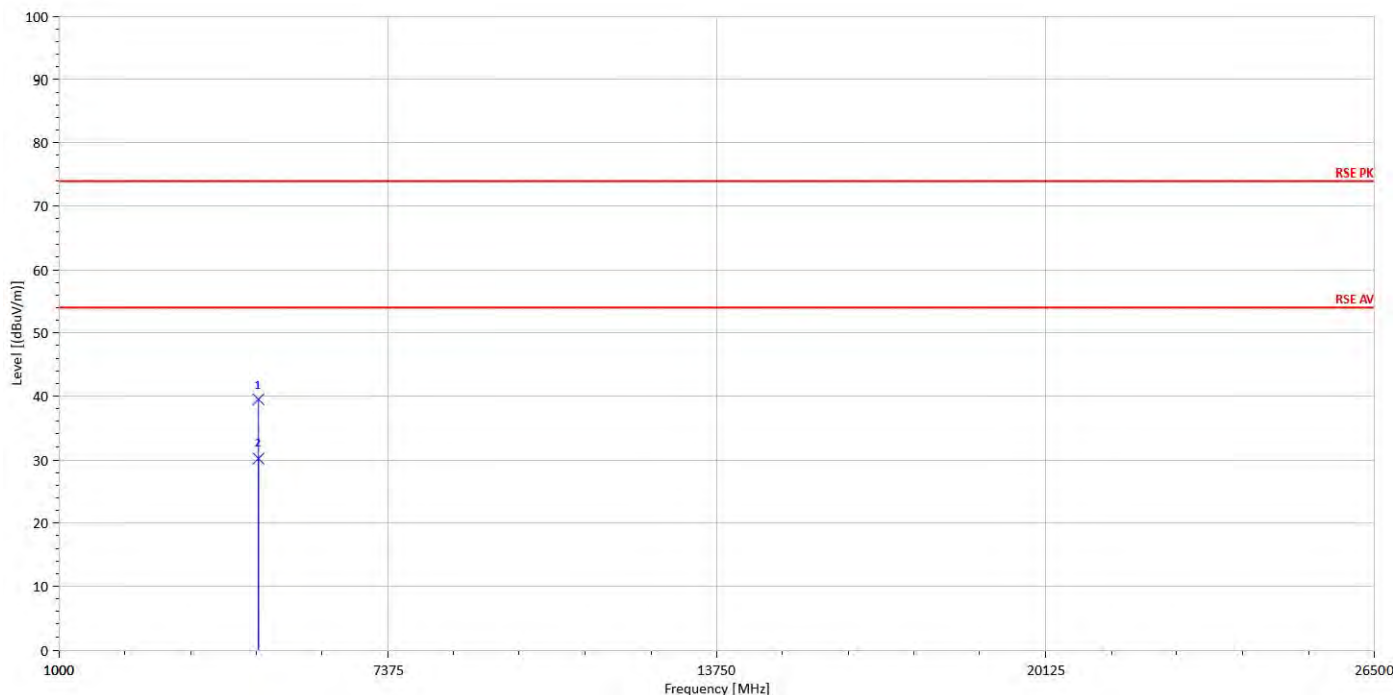
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Operation Mode :	802.11b	Test Date :	2017/3/18
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	31.62	7.91	39.53	74	-34.47
4874.00	H	Average	22.34	7.91	30.25	54	-23.75

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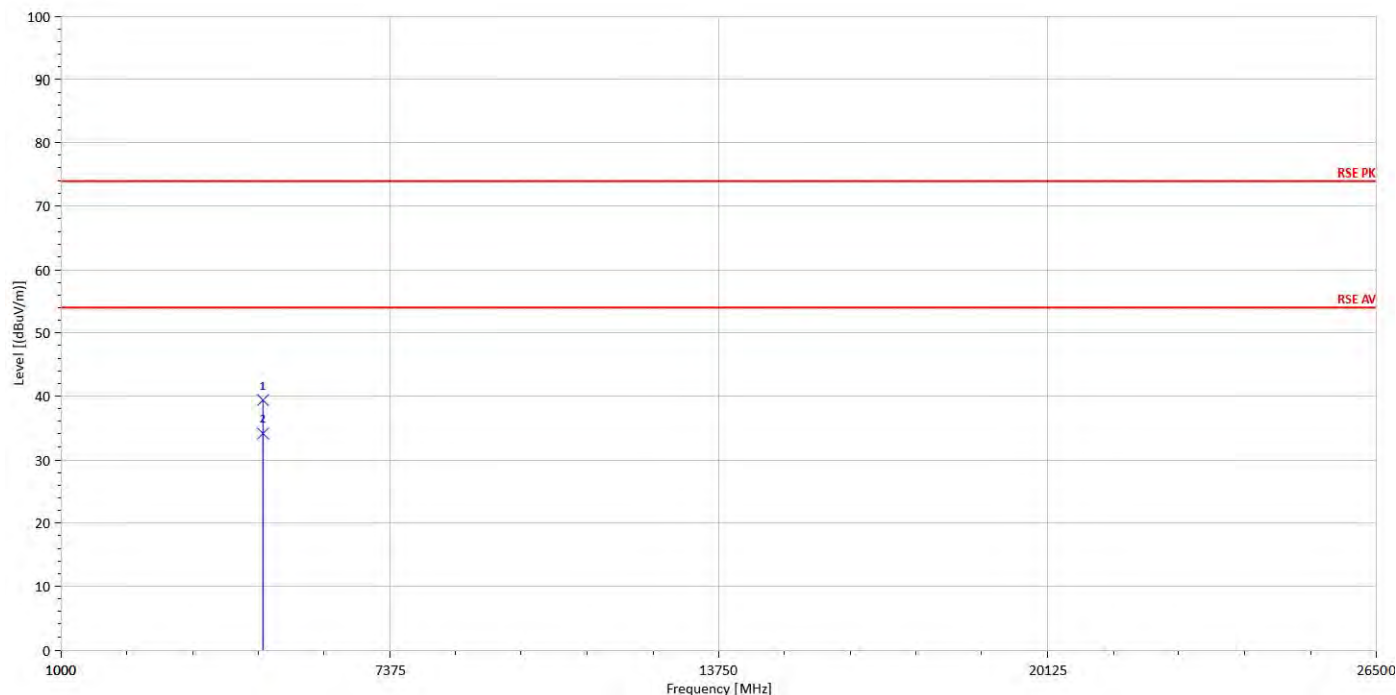
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Operation Mode :	802.11b	Test Date :	2017/3/18
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	H	Peak	31.48	7.92	39.41	74	-34.59
4924.00	H	Average	26.16	7.92	34.08	54	-19.92

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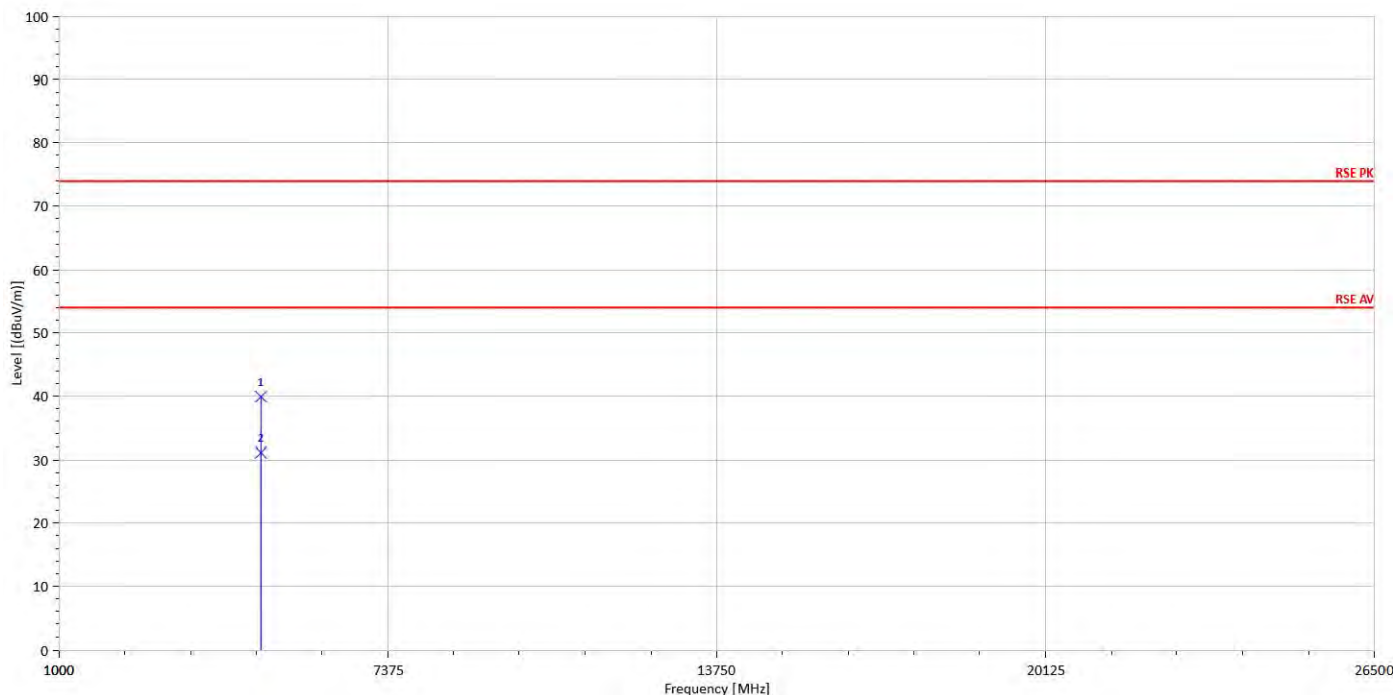
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Operation Mode :	802.11b	Test Date :	2017/3/18
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	H	Peak	32.04	7.92	39.96	74	-34.04
4924.00	H	Average	23.23	7.92	31.15	54	-22.85

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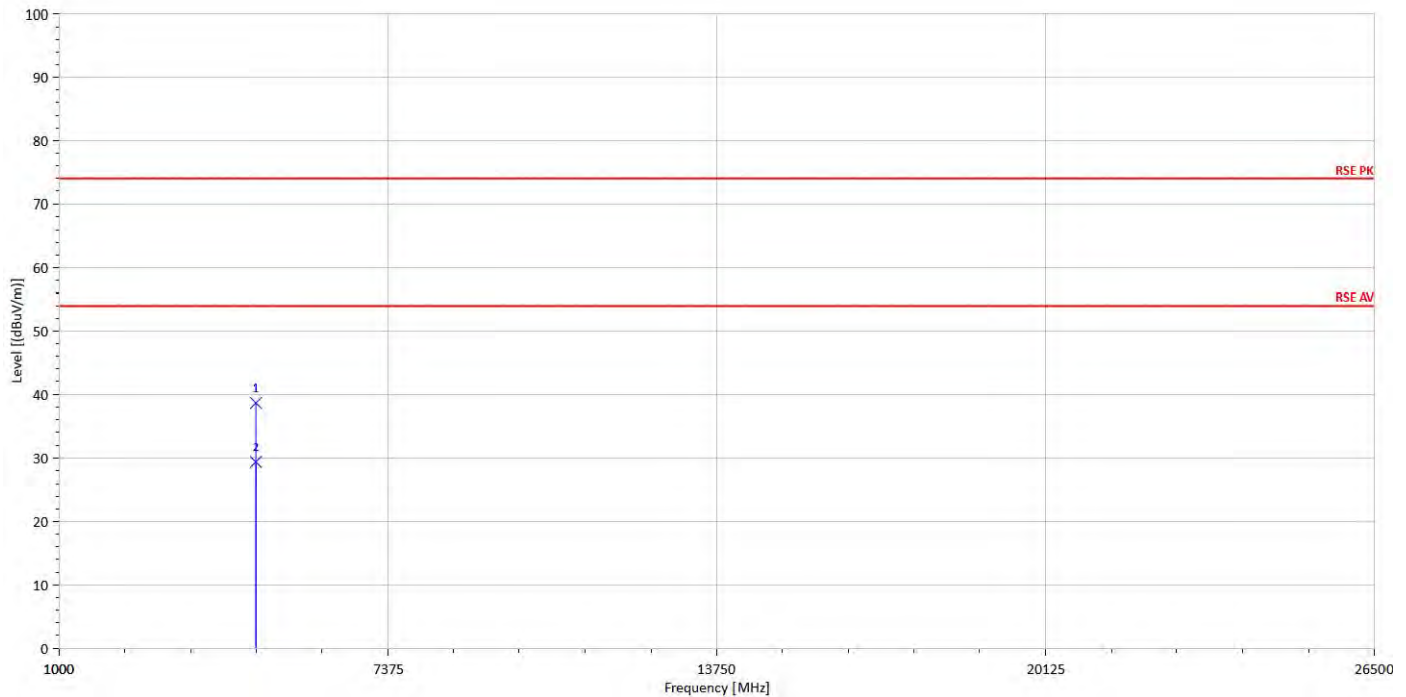
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	2017/3/18
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	H	Peak	31.16	7.58	38.73	74	-35.27
4824.00	H	Average	21.76	7.58	29.34	54	-24.66

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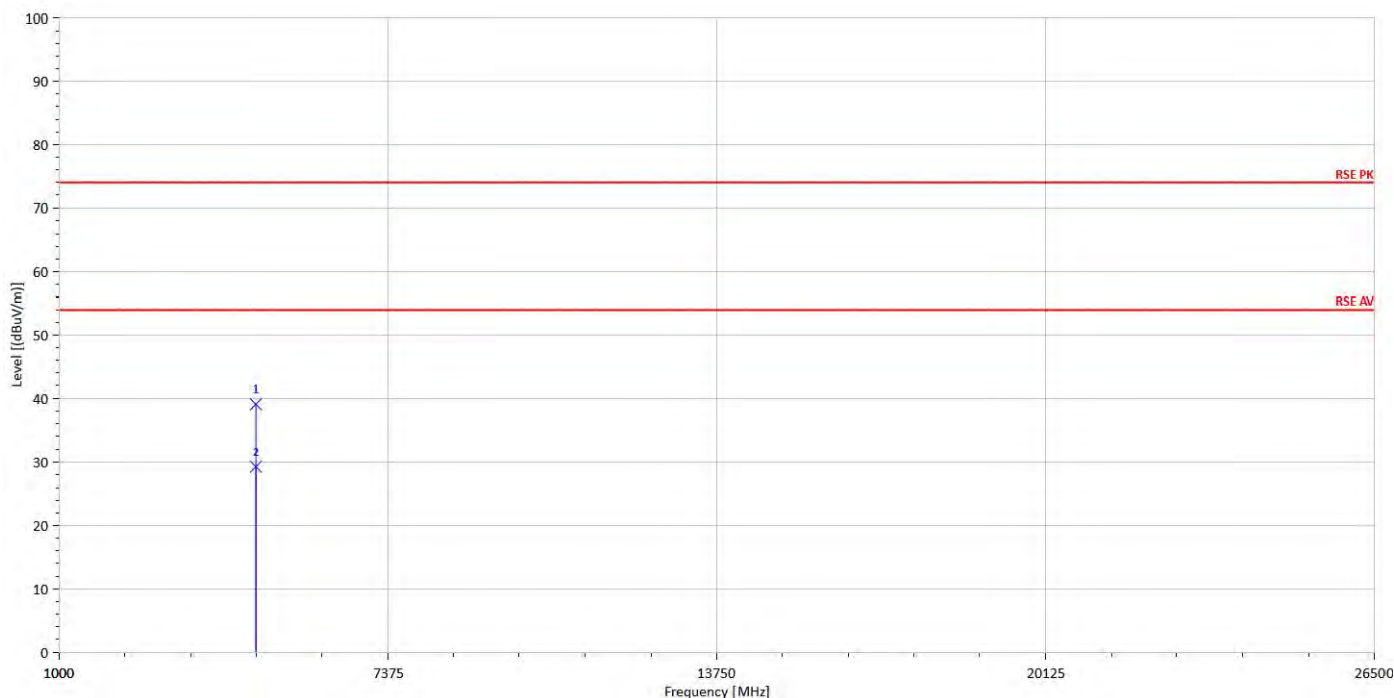
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Operation Mode :	802.11g	Test Date :	2017/3/18
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	PK/QP/AV	Reading Level		FS	@3m	
			dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	H	Peak	31.58	7.58	39.15	74	-34.85
4824.00	H	Average	21.64	7.58	29.22	54	-24.78

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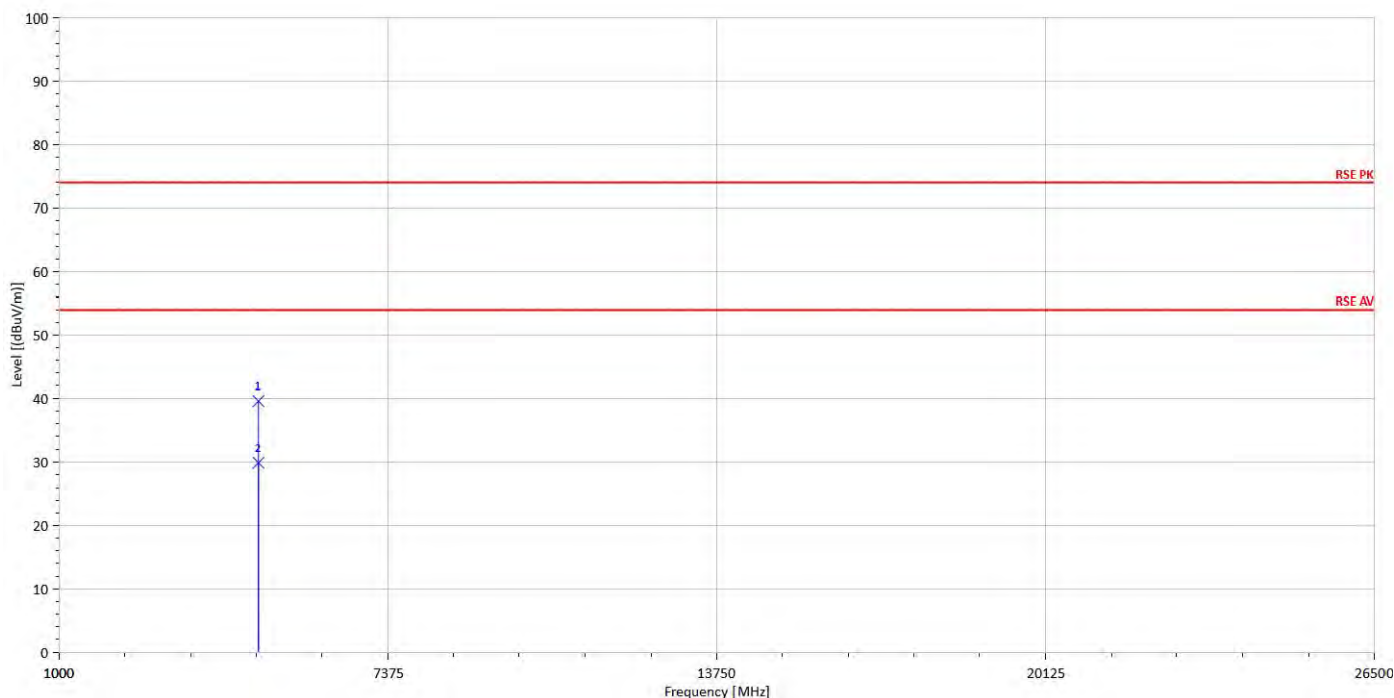
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Fundamental Frequency :	2437 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	H	Peak	31.74	7.91	39.65	74	-34.35
4874.00	H	Average	21.94	7.91	29.85	54	-24.15

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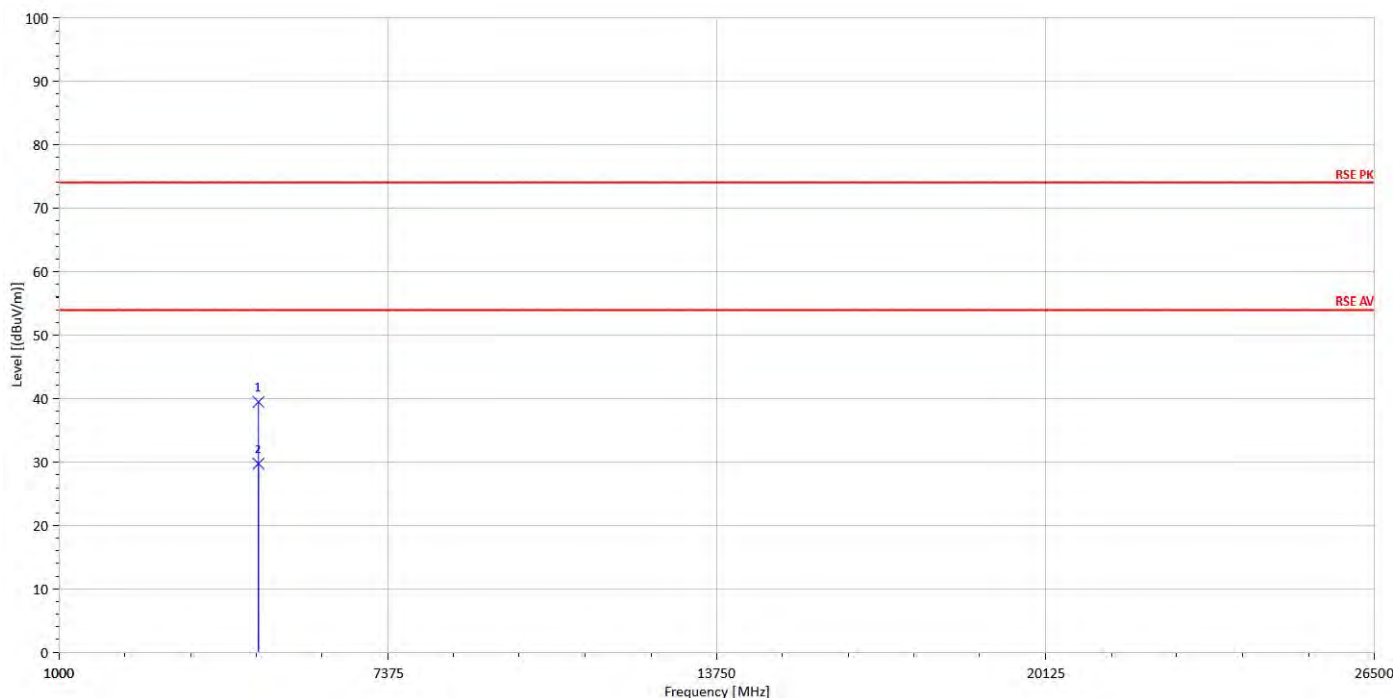
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Fundamental Frequency :	2437 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	H	Peak	31.61	7.91	39.52	74	-34.48
4874.00	H	Average	21.78	7.91	29.69	54	-24.31

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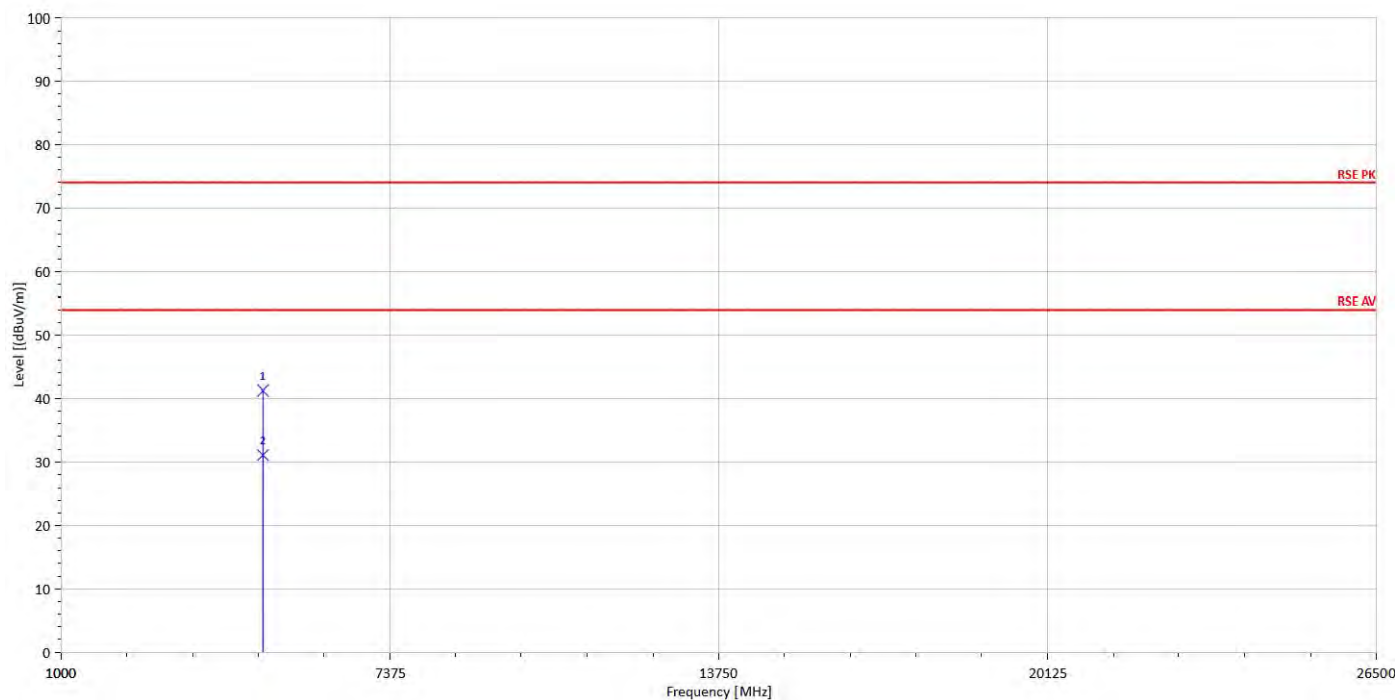
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Operation Mode :	802.11g	Test Date :	2017/3/18
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
4924.00	H	Peak	33.26	8.00	41.27	74	-32.73
4924.00	H	Average	23.06	8.00	31.06	54	-22.94

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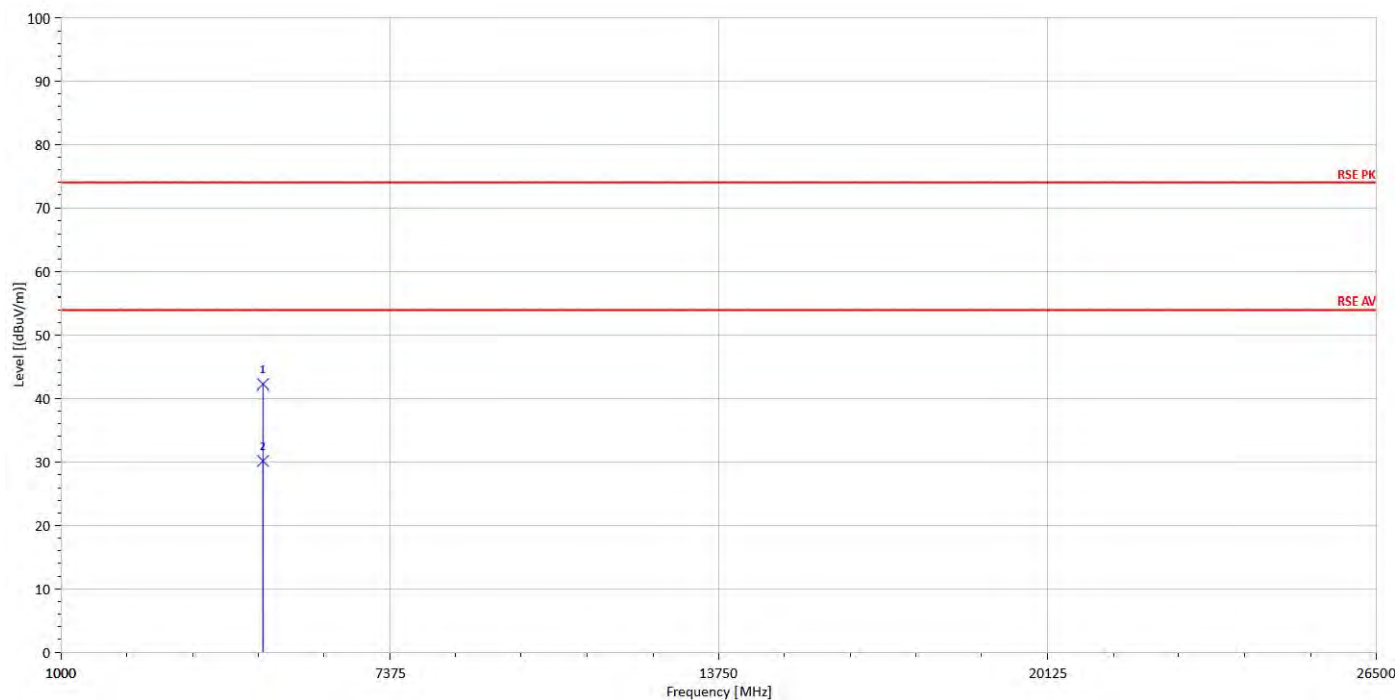
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Fundamental Frequency :	2462 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
4924.00	H	Peak	34.21	8.00	42.22	74	-31.78
4924.00	H	Average	22.12	8.00	30.12	54	-23.88

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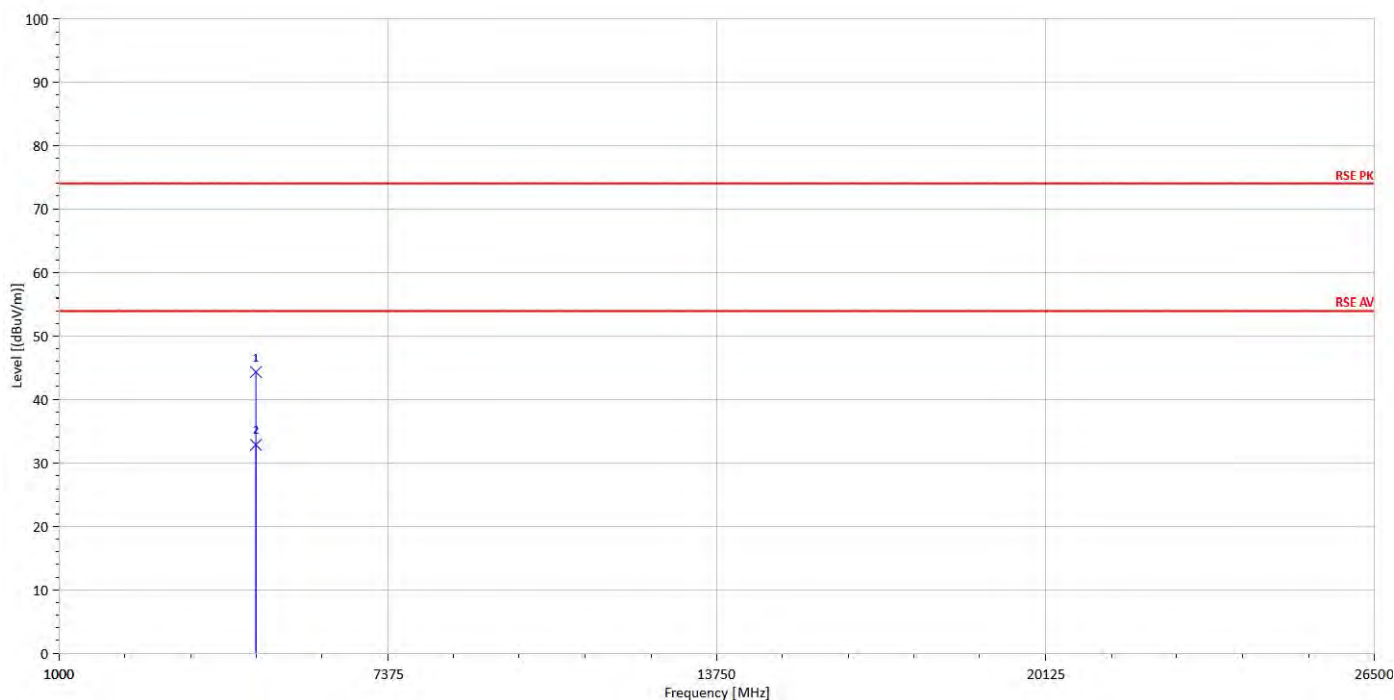
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Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	2017/3/18
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	H	Peak	36.71	7.59	44.30	74	-29.70
4824.00	H	Average	25.27	7.59	32.86	54	-21.14

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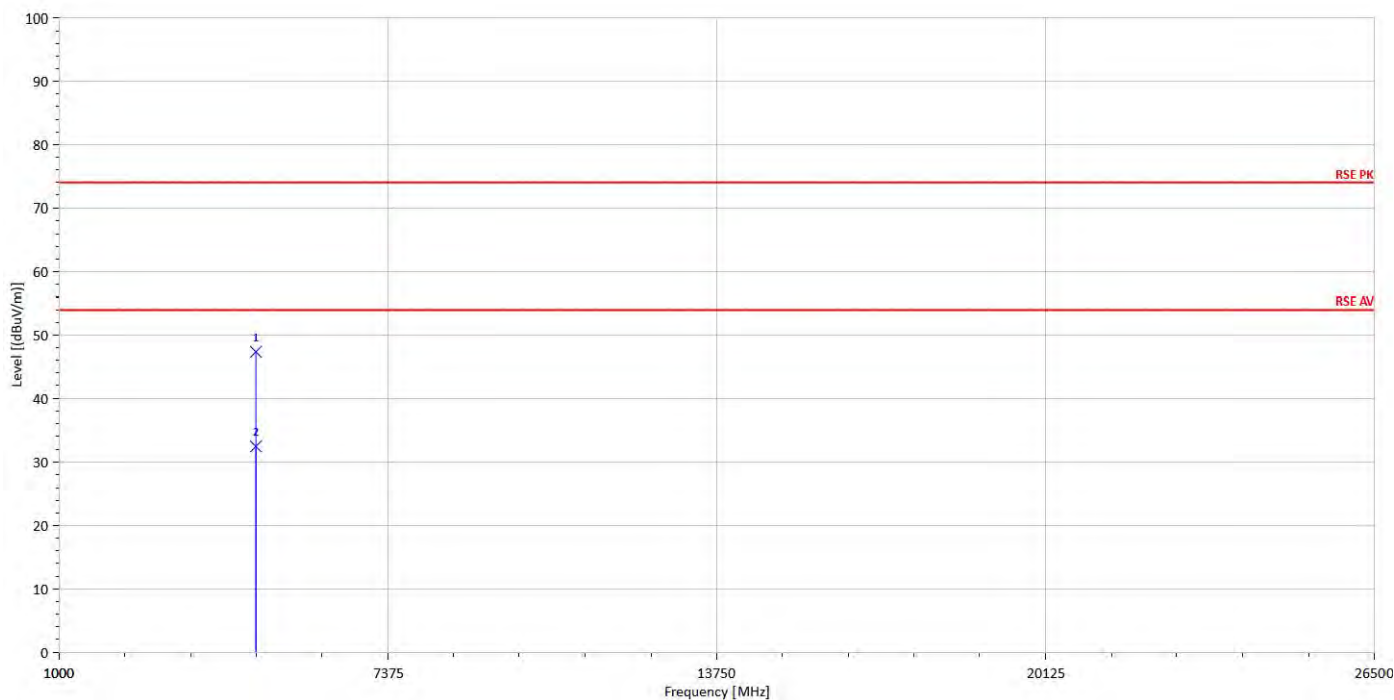
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Operation Mode :	802.11n20	Test Date :	2017/3/18
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	H	Peak	39.76	7.59	47.35	74	-26.65
4824.00	H	Average	24.85	7.59	32.44	54	-21.56

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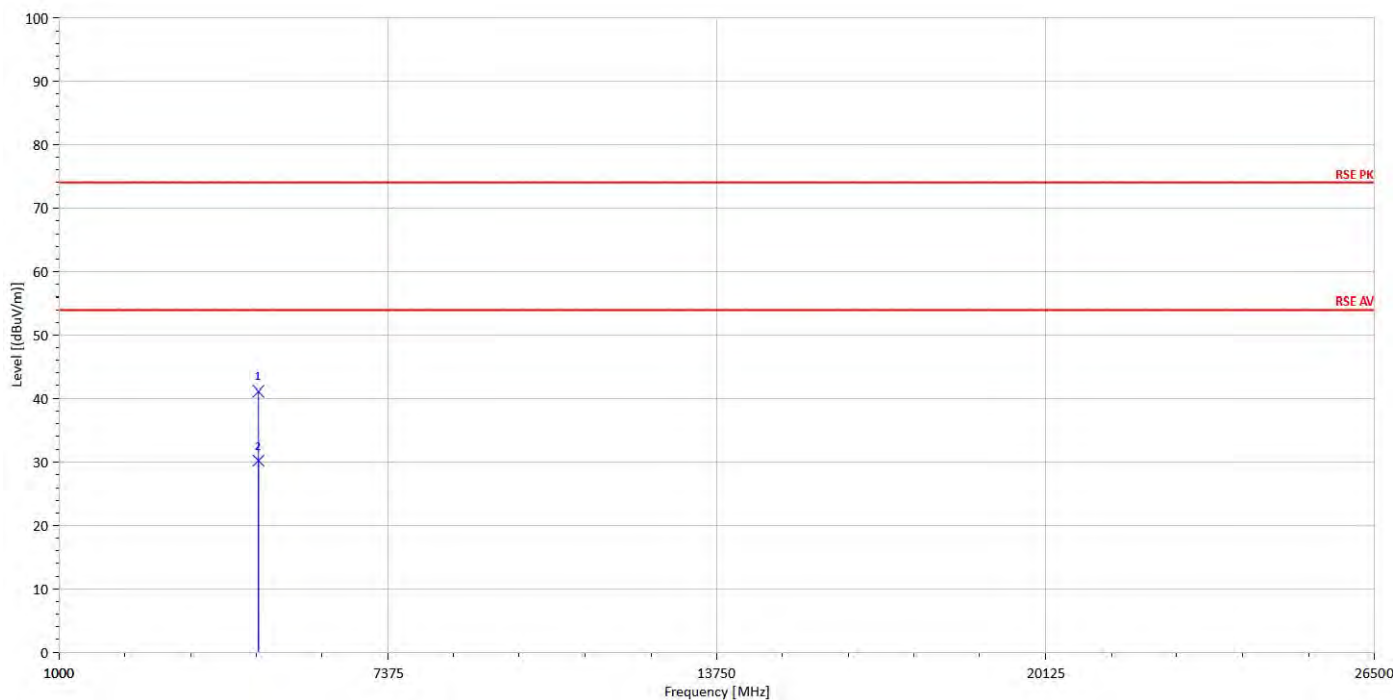
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Operation Mode :	802.11n20	Test Date :	2017/3/18
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	33.28	7.87	41.15	74	-32.85
4874.00	H	Average	22.32	7.87	30.19	54	-23.81

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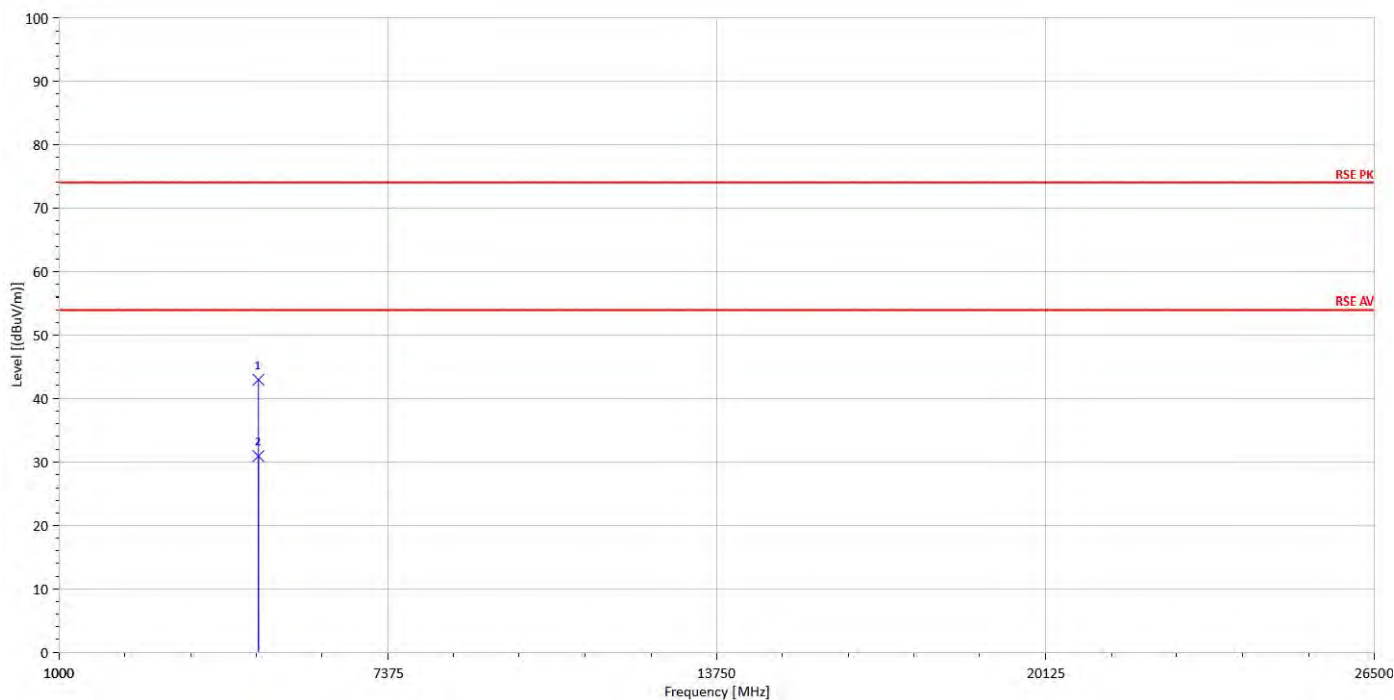
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Operation Mode :	802.11n20	Test Date :	2017/3/18
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
4874.00	H	Peak	35.04	7.87	42.91	74	-31.09
4874.00	H	Average	23.03	7.87	30.90	54	-23.10

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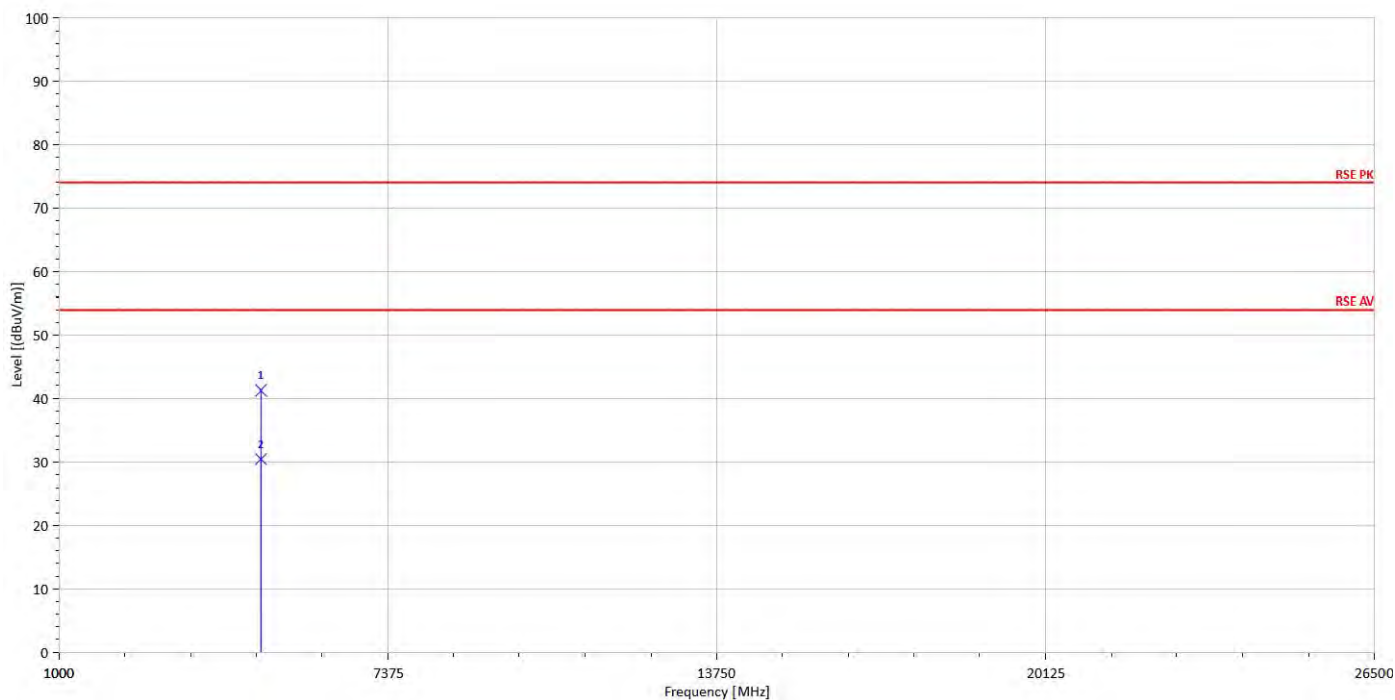
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Operation Mode :	802.11n20	Test Date :	2017/3/18
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	PK/QP/AV	Reading Level		FS	@3m	
			dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	H	Peak	33.37	7.93	41.30	74	-32.70
4924.00	H	Average	22.50	7.93	30.43	54	-23.57

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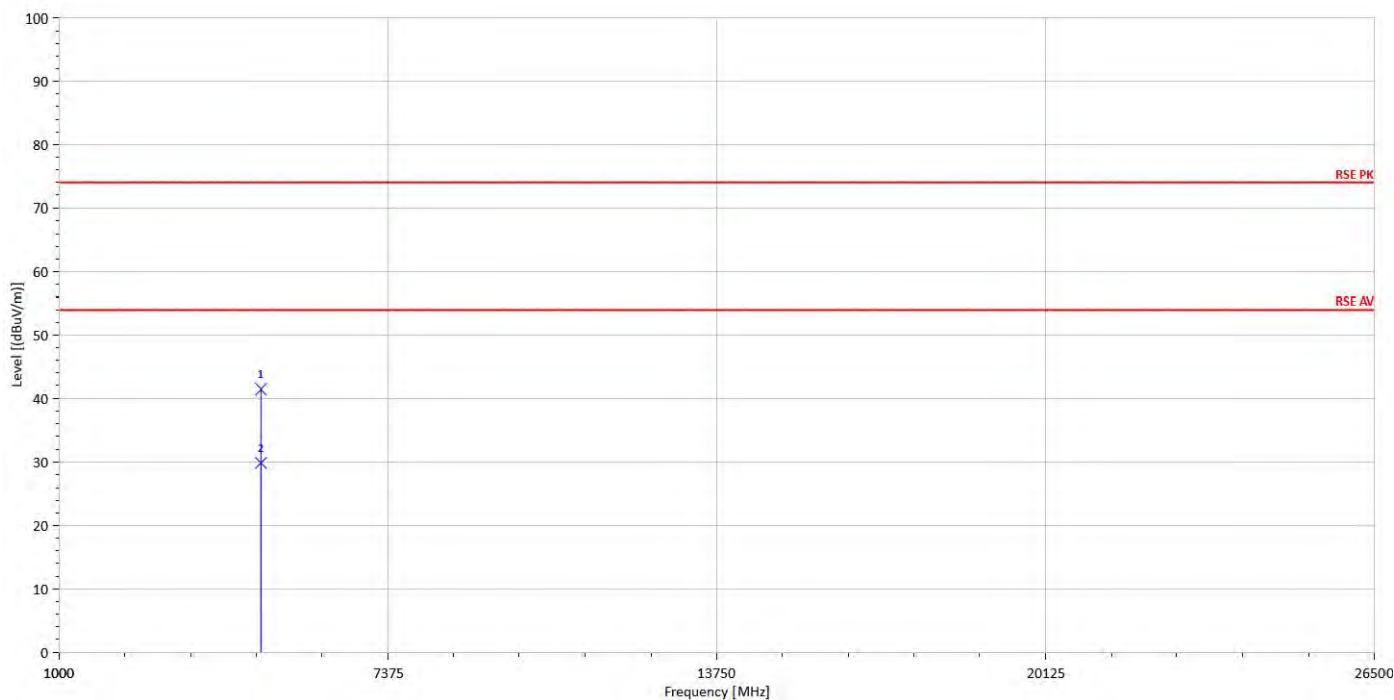
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Operation Mode :	802.11n20	Test Date :	2017/3/18
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	PK/QP/AV	Reading Level		FS	@3m	
			dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	H	Peak	33.46	8.00	41.47	74	-32.53
4924.00	H	Average	21.80	8.00	29.80	54	-24.20

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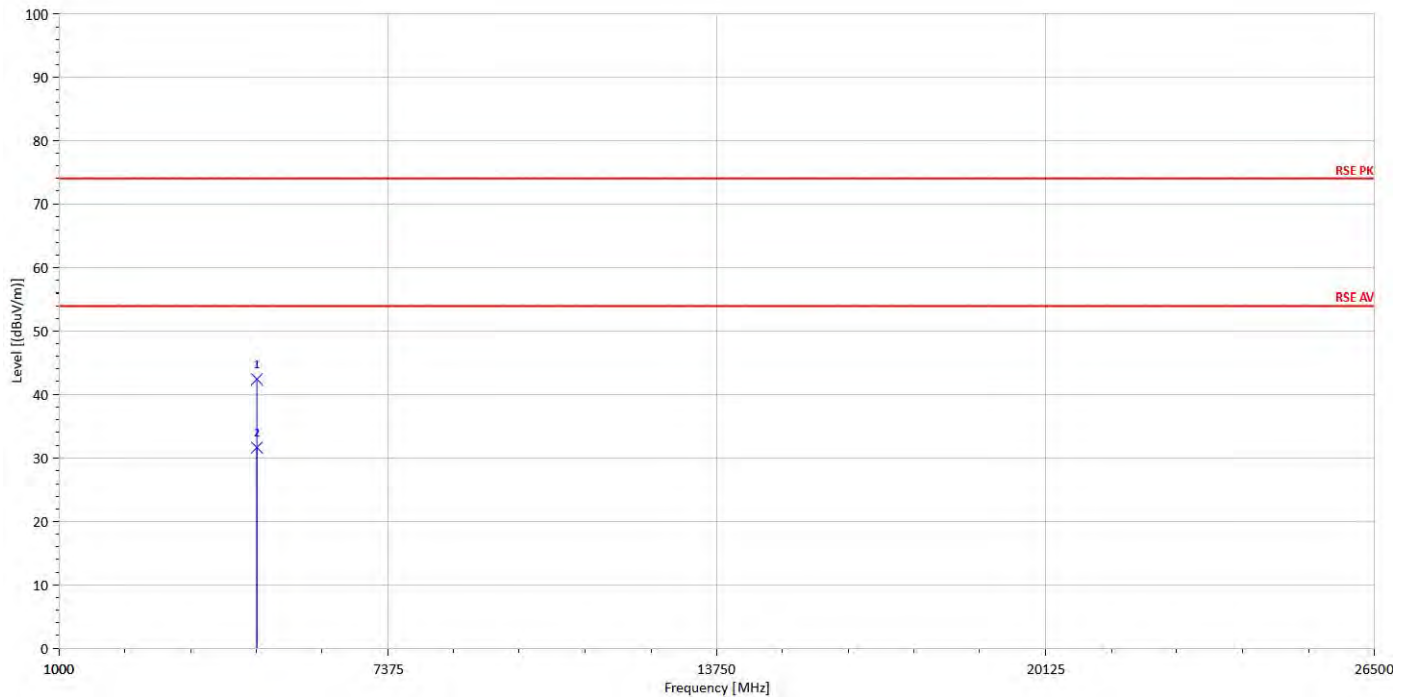
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Radiated Spurious Emission Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	2017/3/18
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4844.00	H	Peak	34.81	7.54	42.35	74	-31.65
4844.00	H	Average	24.09	7.54	31.63	54	-22.37

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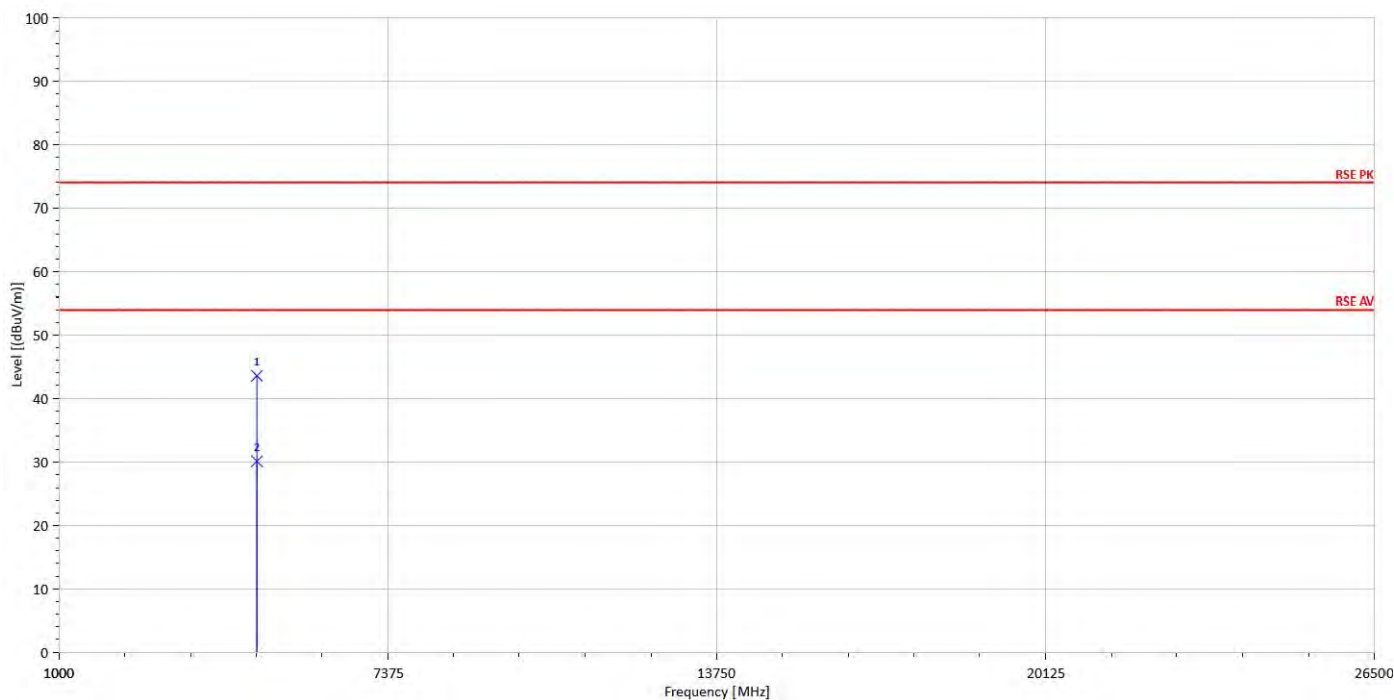
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Operation Mode :	802.11n40	Test Date :	2017/3/18
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
4844.00	H	Peak	35.99	7.54	43.53	74	-30.47
4844.00	H	Average	22.54	7.54	30.08	54	-23.92

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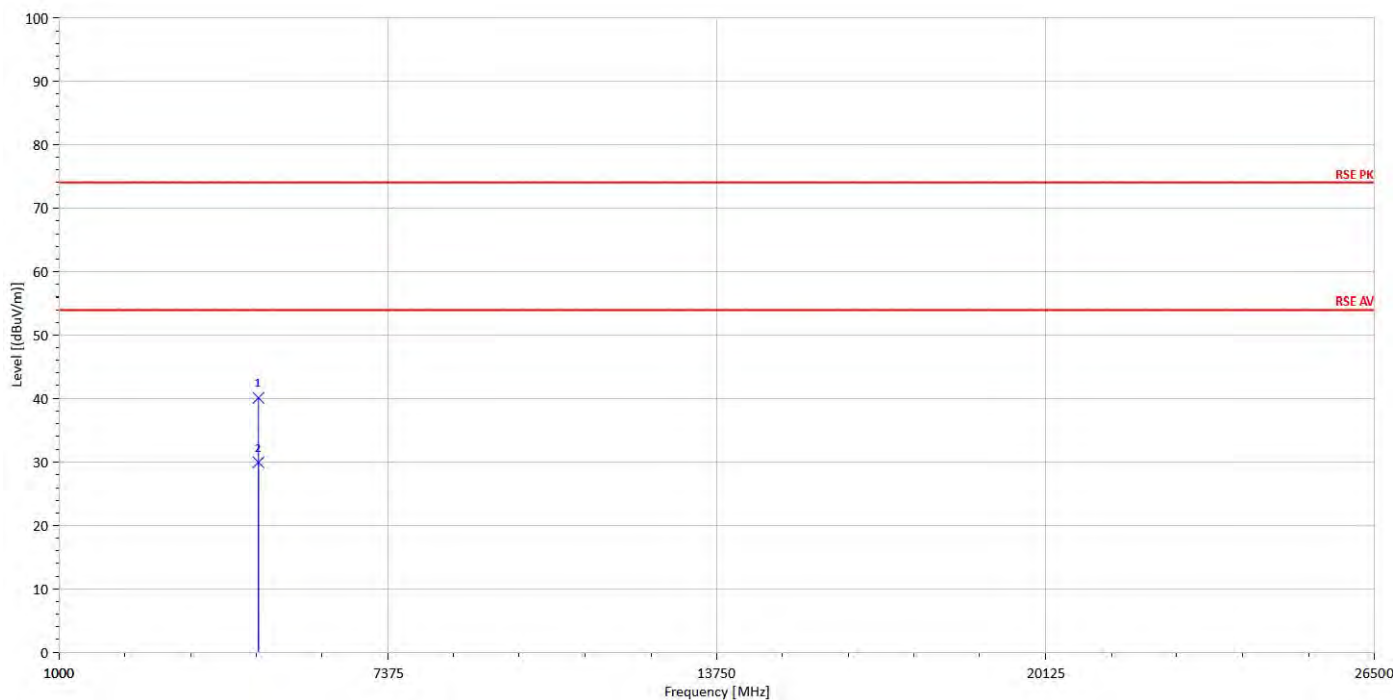
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Operation Mode :	802.11n40	Test Date :	2017/3/18
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	PK/QP/AV	Reading Level	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	32.27	7.91	40.18	74	-33.82
4874.00	H	Average	22.01	7.91	29.92	54	-24.08

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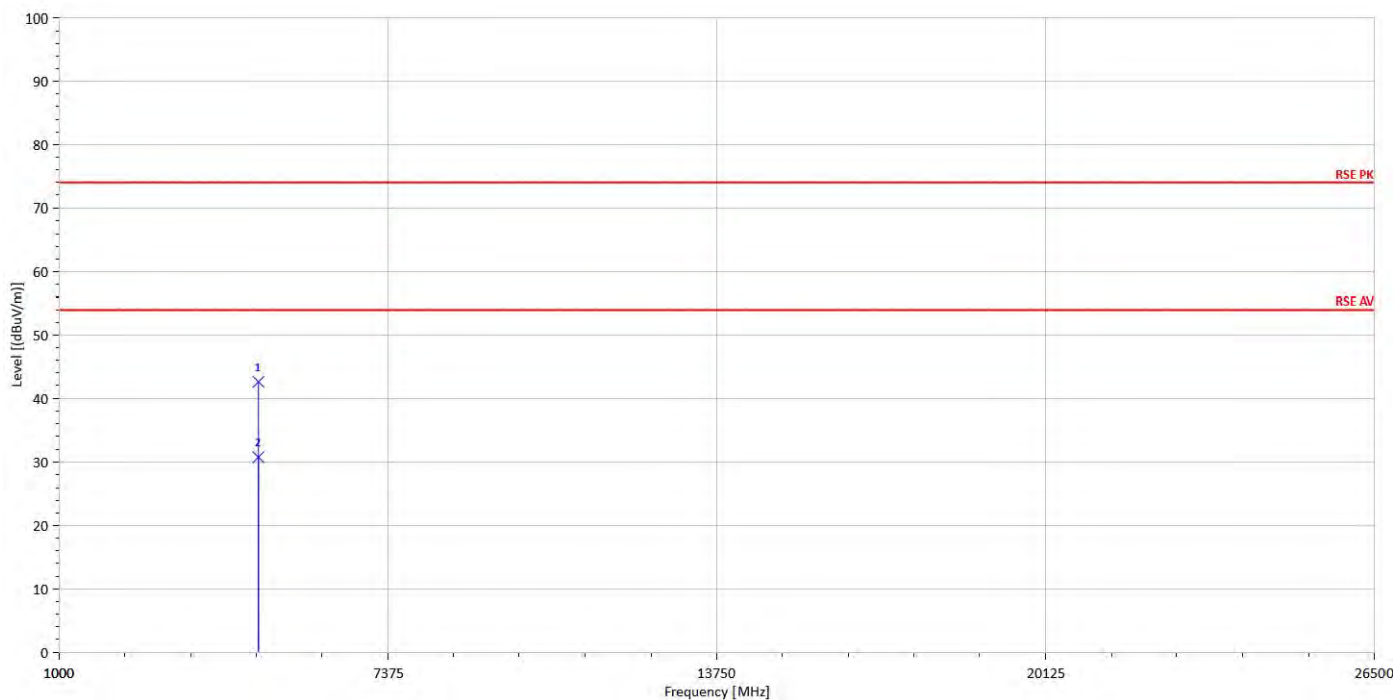
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Operation Mode :	802.11n40	Test Date :	2017/3/18
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	H	Peak	34.81	7.77	42.58	74	-31.42
4874.00	H	Average	22.97	7.77	30.74	54	-23.26

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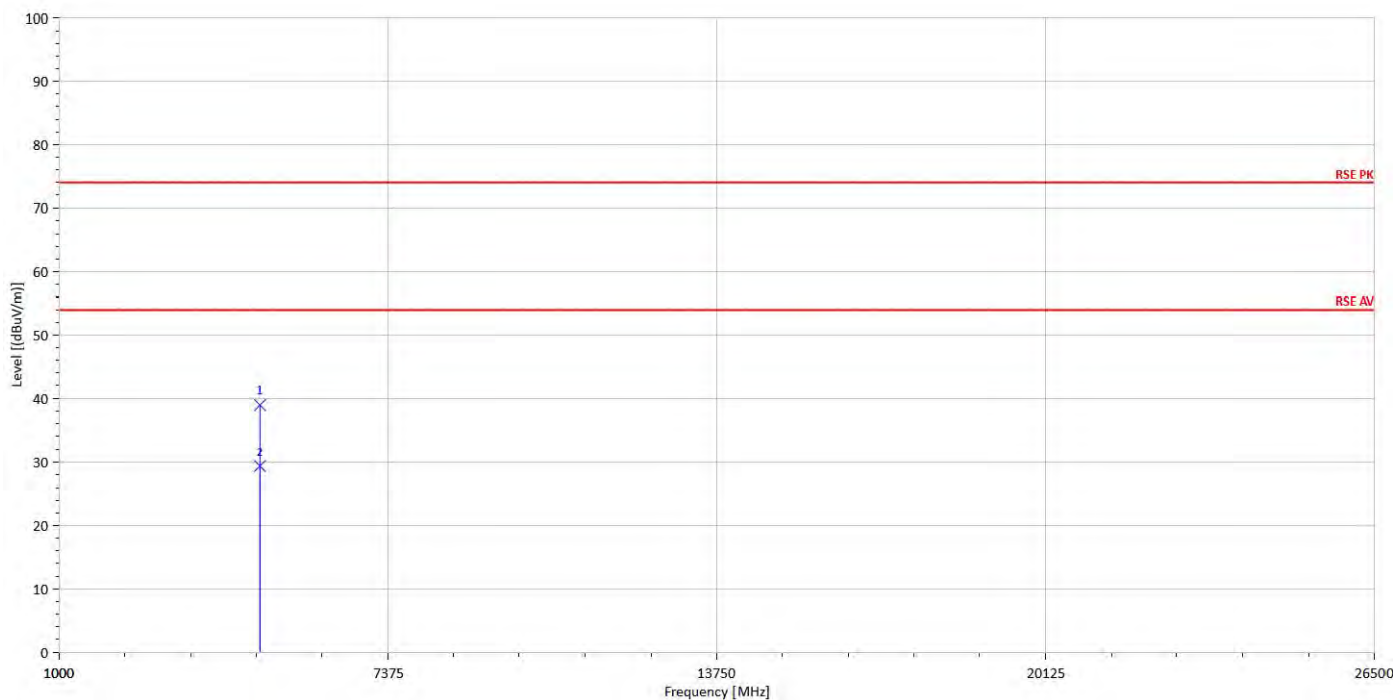
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Operation Mode :	802.11n40	Test Date :	2017/3/18
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	H	Peak	31.59	7.44	39.03	74	-34.97
4904.00	H	Average	21.88	7.44	29.32	54	-24.68

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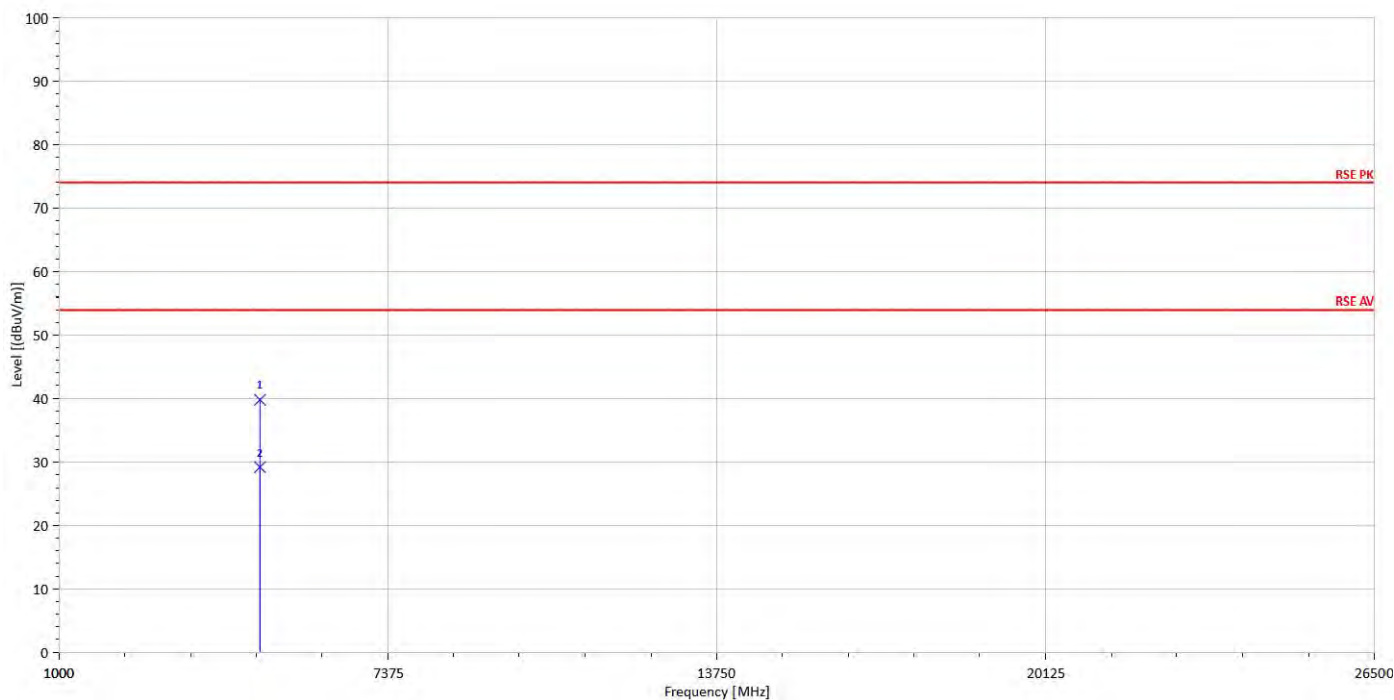
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Operation Mode :	802.11n40	Test Date :	2017/3/18
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	20.1deg_C/50RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	H	Peak	32.42	7.44	39.86	74	-34.14
4904.00	H	Average	21.70	7.44	29.14	54	-24.86

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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.

Note:

Antenna Gain: 3.82 dBi
 Aux1 Antenna Gain: 3.82 dBi
 Number Antenna: 2 pcs
 Limit: 8 dBm

The antenna gain is greater than 6dBi in MIMO mode the limit reduce as below:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

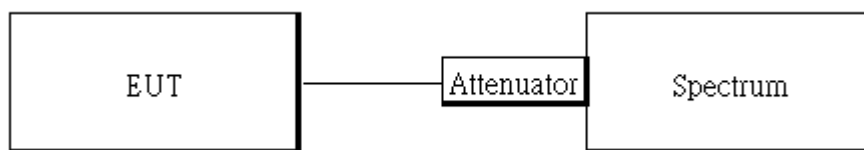
Effective Legacy Gain (dBi) = 3.82+3.01=6.83dBi

Limit: 8dBm – (6.83– 6dBi)=7.17dBm

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	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017

12.3 Test Set-up



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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 & 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.
11. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application

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12.5 Measurement Result

POWER DENSITY 802.11b MODE				POWER DENSITY 802.11g MODE			
Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result	Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result
2412	0.82	8.00	PASS	2412	-11.95	8.00	PASS
2437	3.59	8.00	PASS	2437	-10.39	8.00	PASS
2462	-10.91	8.00	PASS	2462	-11.90	8.00	PASS

POWER DENSITY 802.11n HT20 MODE				POWER DENSITY 802.11n HT40 MODE			
Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result	Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result
2412	-10.50	7.17	PASS	2422	-12.19	7.17	PASS
2437	-10.18	7.17	PASS	2437	-12.46	7.17	PASS
2462	-10.75	7.17	PASS	2452	-11.8	7.17	PASS

*Refer to next page for plots

Bandedge Limit 802.11b MODE			Bandedge Limit 802.11g MODE		
Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)	Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)
2412	5.38	-14.62	2412	5.65	-14.35
2462	5.69	-14.31	2462	5.03	-14.97

Bandedge Limit 802.11n20 MODE		
Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)
2412	7.26	-12.74
2462	6.47	-13.53

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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)



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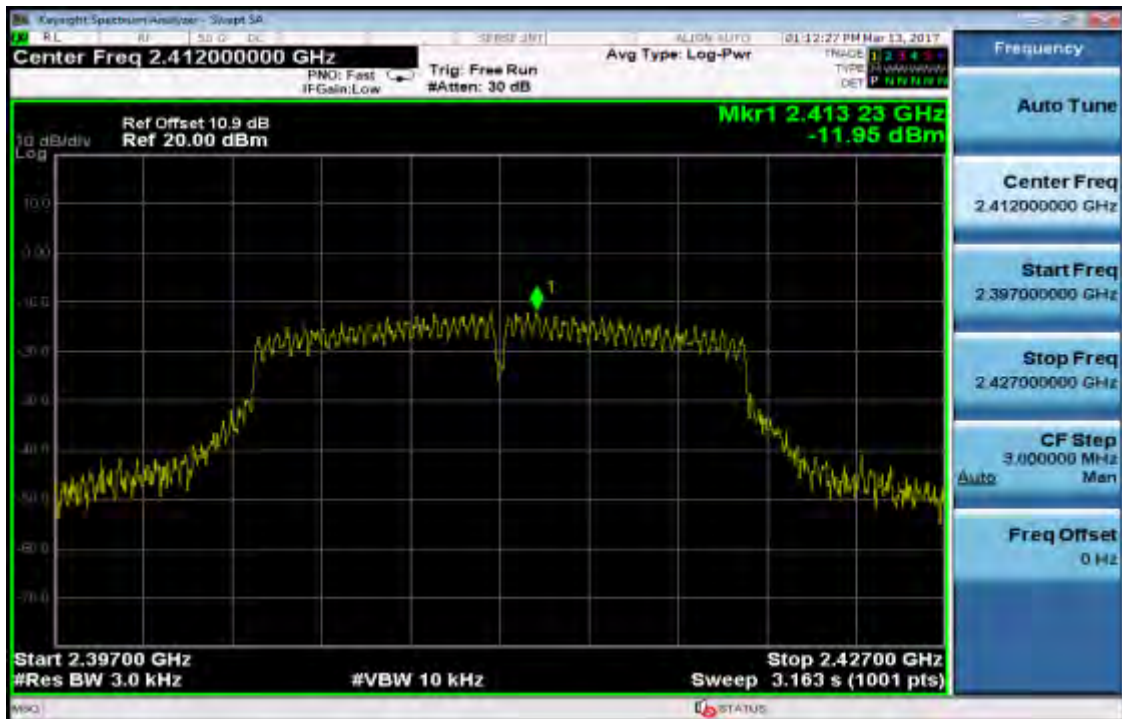
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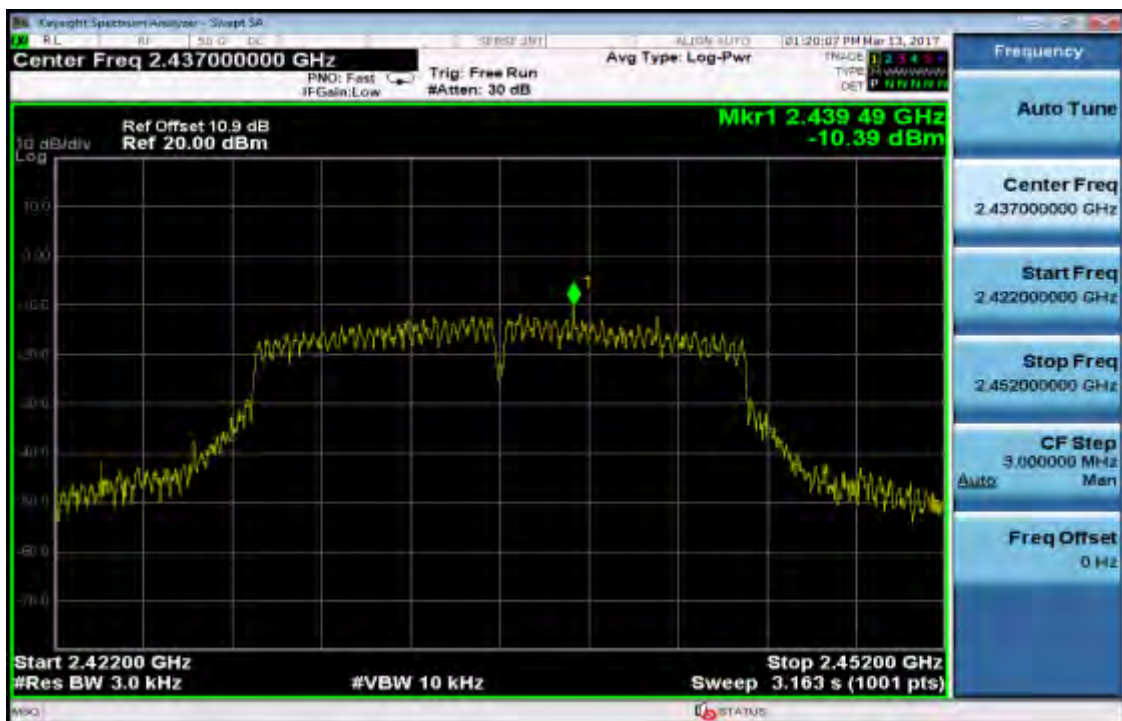
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802.11g

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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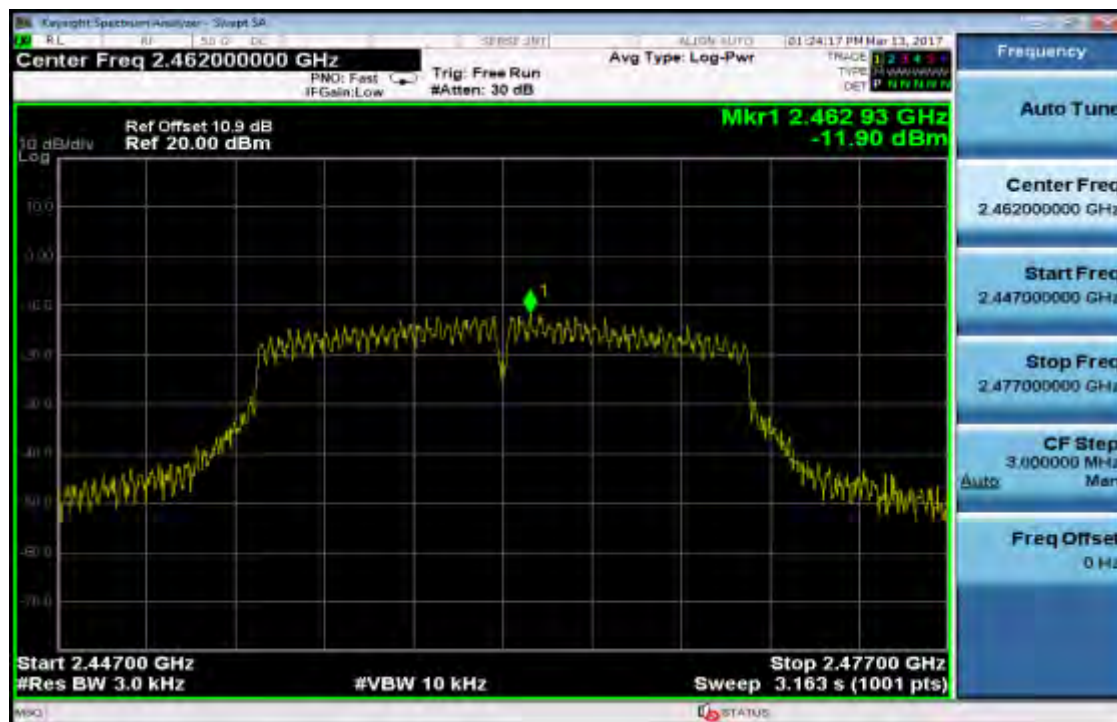
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Power Spectral Density Test Plot (CH-High)



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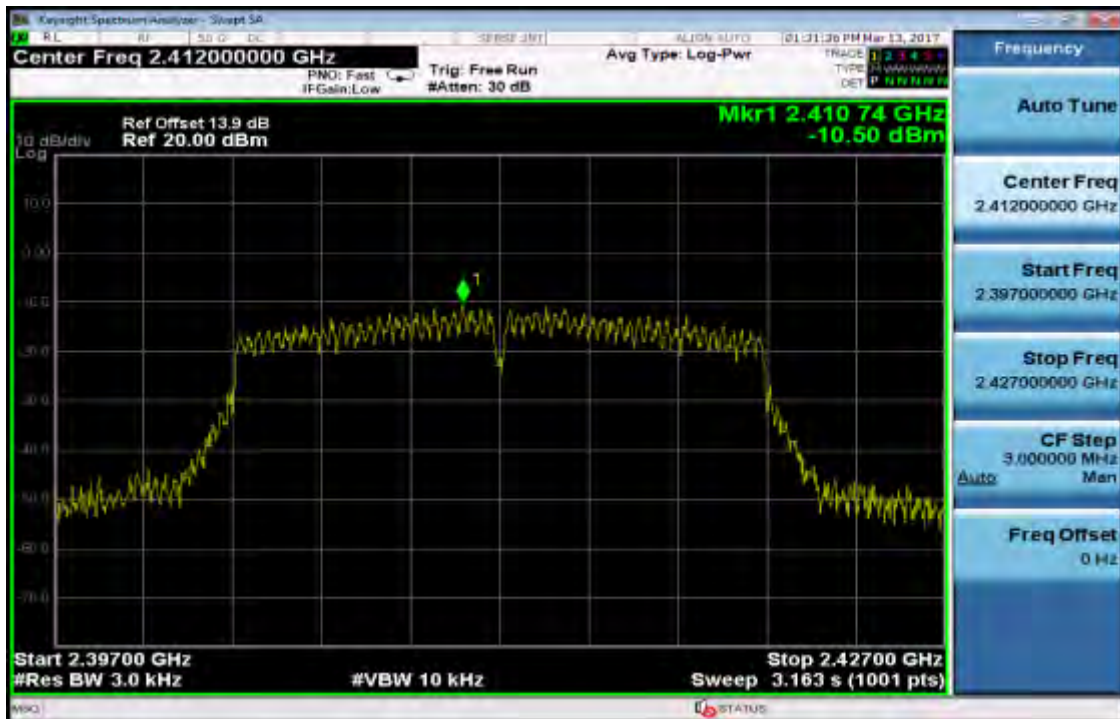
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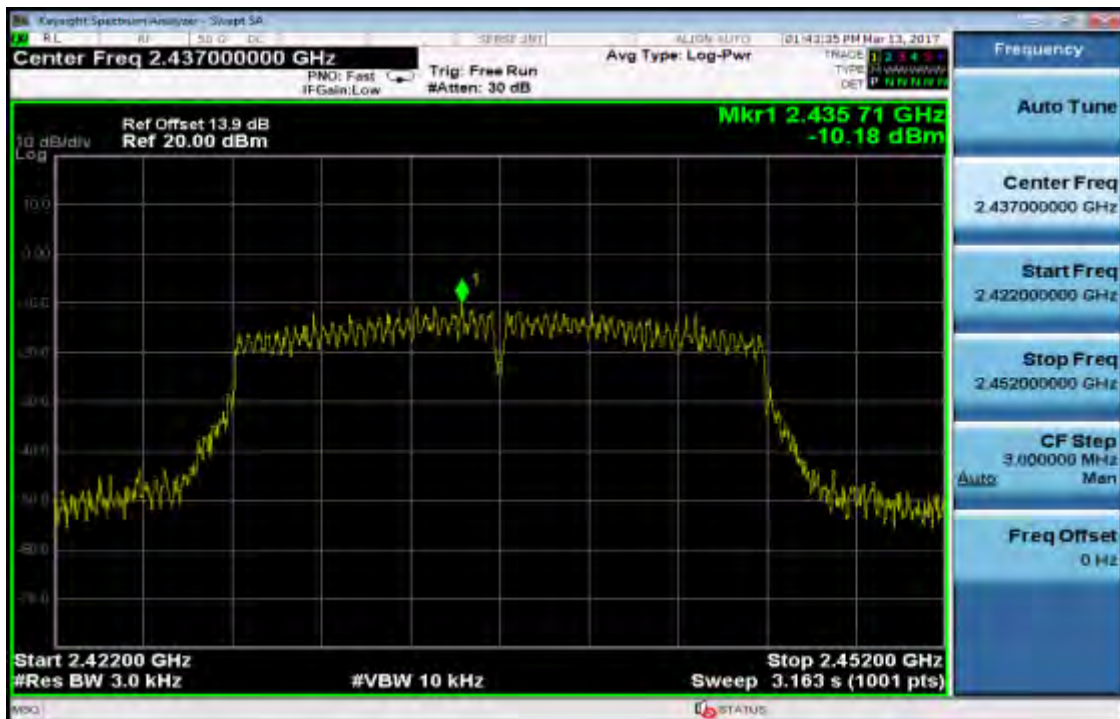
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802.11n_HT20 (MIMO)

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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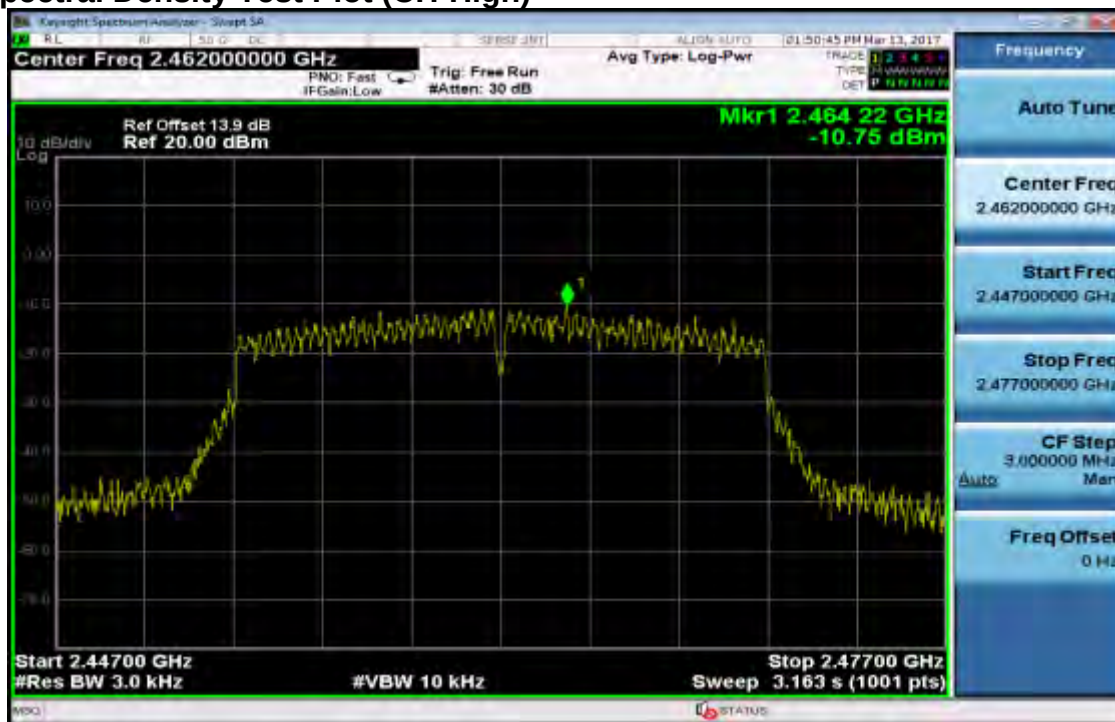
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Power Spectral Density Test Plot (CH-High)



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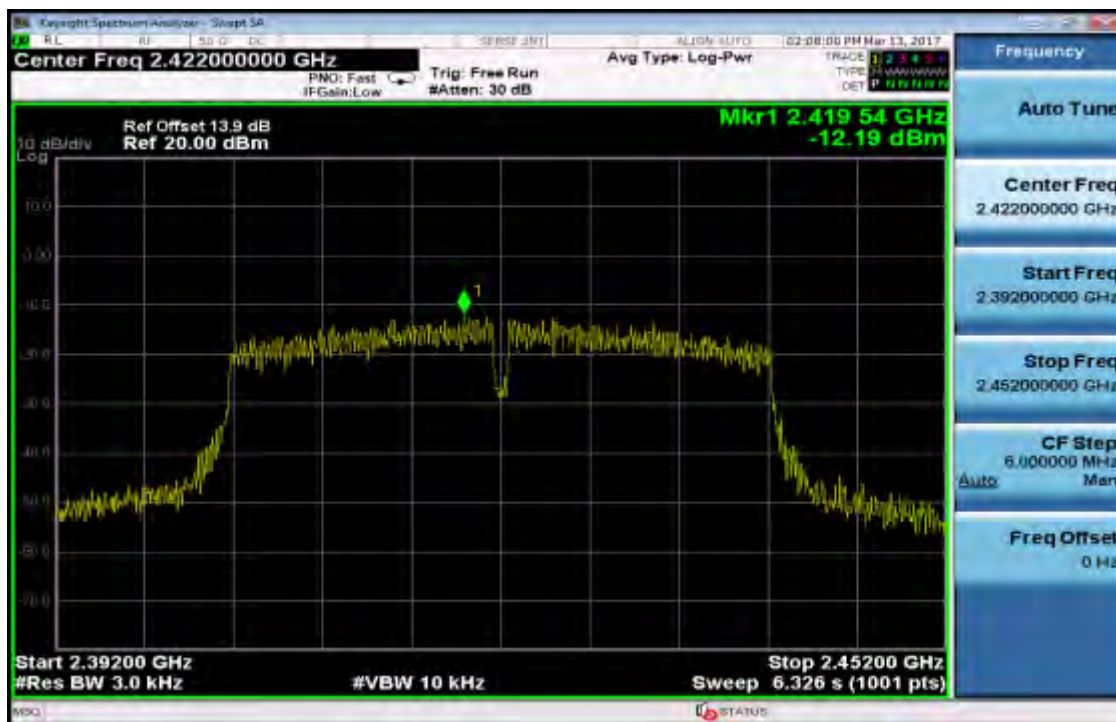
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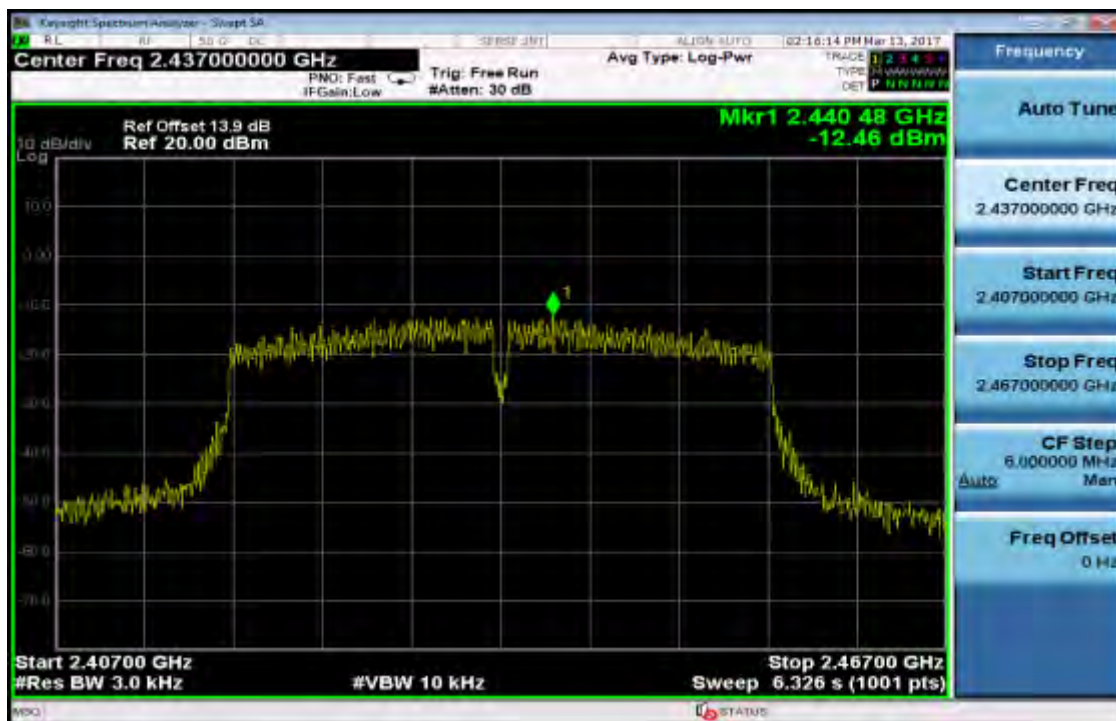
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802.11n_HT40 (MIMO)

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Power Spectral Density Test Plot (CH-Mid)



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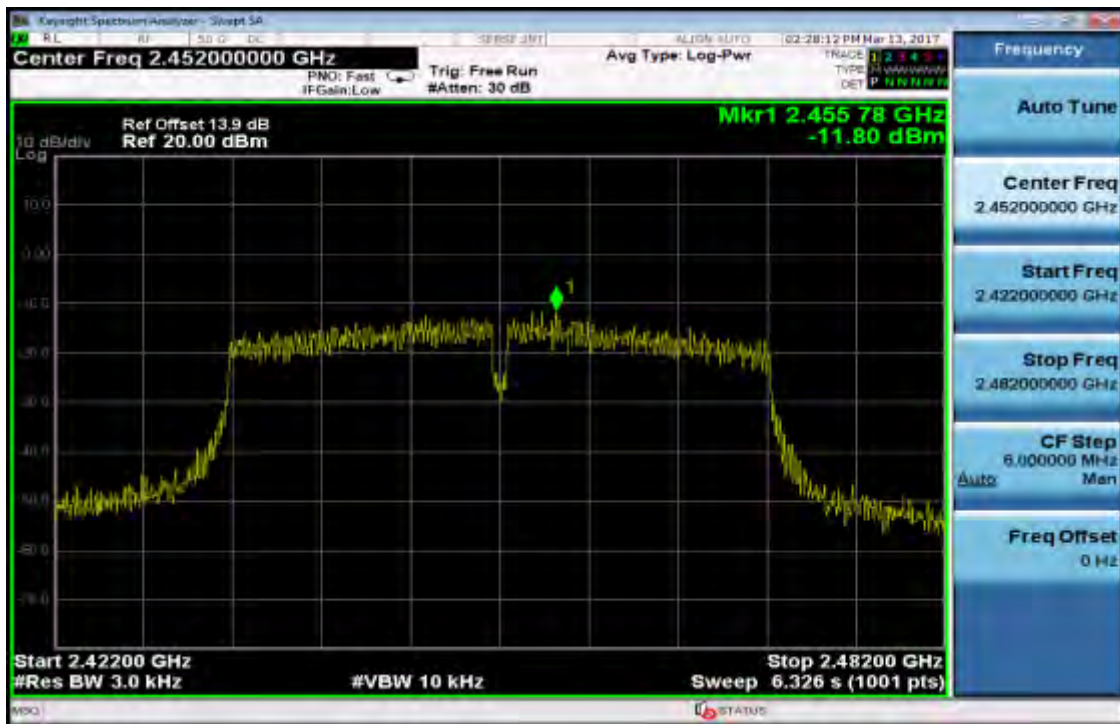
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Power Spectral Density Test Plot (CH-High)



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802.11b PSD for Band edge Limit (CH-Low)



802.11b PSD for Bandedge Limit(CH-High)



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802.11g PSD for Bandedge Limit(CH-Low)



802.11g PSD for Bandedge Limit(CH-High)



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802.11n_HT20 PSD for Bandedge Limit(CH-Low)



802.11n_HT20 PSD for Bandedge Limit(CH-High)



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802.11n_HT40 PSD for Bandedge Limit(CH-Low)



802.11n_HT40 PSD for Bandedge Limit(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.

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

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14 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

14.1 Standard Applicable

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

This is a Mobile device, the MPE is required.

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

Limits for Maximum Permissive Exposure (MPE)

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

F = frequency in MHz

* = Plane-wave equipment power density

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Maximum Permissible Exposure (MPE) Evaluation (worst case)

802.11g Main						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	6	23.06	202.30	1 Watt = 30.00 dBm	PASS
6	2437	6	23.15	206.54	1 Watt = 30.00 dBm	PASS
11	2462	6	23.46	221.82	1 Watt = 30.00 dBm	PASS
802.11g Main						
CH	Freq. (MHz)	Data Rate	Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit	RESULT
1	2412	6	14.92	31.05	1 Watt = 30.00 dBm	PASS
6	2437	6	14.97	31.41	1 Watt = 30.00 dBm	PASS
11	2462	6	15.46	35.16	1 Watt = 30.00 dBm	PASS

MPE Prediction (802.11b 2412~2462)

Prediction of MPE limit at a given distance

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

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

Where: S = Power density P = Power input to antenna

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

R = Distance to the center of radiation of the antenna

Max. output power including tune-up tolerance:	15.46	(dBm)
Max. output power including tune-up tolerance:	35.15604405	(mW)
Duty cycle:	89.64	(%)
Maximum Pav :	31.51387789	(mW)
Peak Antenna gain (Maximum):	3.82	(dBi)
Peak Antenna gain (linear):	2.409905429	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2462	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.015	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.015 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 2462MHz.

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Maximum Permissible Exposure (MPE) Evaluation (worst case)

802.11n_HT20M MIMO								
CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
1	2412	MCS8	21.64	21.22	24.45	278.32	1 Watt = 29.17 dBm	PASS
6	2437	MCS8	21.35	21.30	24.34	271.35	1 Watt = 29.17 dBm	PASS
11	2462	MCS8	21.12	21.01	24.08	255.60	1 Watt = 29.17 dBm	PASS
802.11n_HT20M MIMO								
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
1	2412	MCS8	12.62	12.31	15.48	35.30	1 Watt = 29.17 dBm	PASS
6	2437	MCS8	12.22	12.32	15.28	33.73	1 Watt = 29.17 dBm	PASS
11	2462	MCS8	12.52	12.31	15.43	34.89	1 Watt = 29.17 dBm	PASS

MPE Prediction (802.11n_HT20 2412~2462)

Prediction of MPE limit at a given distance

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

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

Where: S = Power density P = Power input to antenna

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

R = Distance to the center of radiation of the antenna

MIMO Gain: 3.82+3.01=6.83dBi

Max. output power including tune-up tolerancel:	15.48	(dBm)
Max. output power including tune-up tolerancel:	35.31831698	(mW)
Duty cycle:	80.87	(%)
Maximum Pav :	28.56192294	(mW)
Peak Antenna gain (Maximum):	6.83	(dBi)
Peak Antenna gain (linear):	4.819477976	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2412	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.027	(mW/cm ²)
Measurement Result		
The predicted power density level at 20 cm is 0.027 mW/cm ² .		
This is below the uncontrolled exposure limit of 1 mW/cm ² at 2412MHz.		

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Maximum Permissible Exposure (MPE) Evaluation (worst case)

802.11n_HT40M MIMO								
CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
3	2422	MCS8	22.19	22.04	25.13	325.53	1 Watt = 29.17 dBm	PASS
6	2437	MCS8	22.17	22.29	25.24	334.25	1 Watt = 29.17 dBm	PASS
9	2452	MCS8	22.35	22.24	25.31	339.29	1 Watt = 29.17 dBm	PASS
802.11n_HT40M MIMO								
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
3	2422	MCS8	12.87	12.31	15.61	36.39	1 Watt = 29.17 dBm	PASS
6	2437	MCS8	12.61	12.35	15.49	35.42	1 Watt = 29.17 dBm	PASS
9	2452	MCS8	12.66	12.43	15.56	35.95	1 Watt = 29.17 dBm	PASS

MPE Prediction (802.11n_HT40 2422~2452)

Prediction of MPE limit at a given distance

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

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

Where: S = Power density P = Power input to antenna

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

R = Distance to the center of radiation of the antenna

MIMO Gain: 3.28+3.01=6.83dBi

Max. output power including tune-up tolerancel:	15.61	(dBm)
Max. output power including tune-up tolerancel:	36.39150361	(mW)
Duty cycle:	68.49	(%)
Maximum Pav :	24.92454082	(mW)
Peak Antenna gain (Maximum):	6.83	(dBi)
Peak Antenna gain (linear):	4.819477976	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2422	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.024	(mW/cm ²)
Measurement Result		
The predicted power density level at 20 cm is 0.024 mW/cm ² .		
This is below the uncontrolled exposure limit of 1 mW/cm ² at 2422MHz.		

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15 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

15.1 Standard Applicable

According to RSS 102 March 19,2015 issue 5 §2.5.2 RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);

at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $22.48/f^{0.5} \text{ W}$ (adjusted for tune-up tolerance), where f is in MHz;

at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834} \text{ W}$ (adjusted for tune-up tolerance), where f is in MHz;

This is a Mobile device, at which separation distance between the user and the device's antenna is 20cm. Therefore, section 2.5.2 shall be complied with

1.1 Maximum Permissible Exposure (MPE) Exemption

802.11 g:

Max. output power including tune-up tolerance:	15.46	(dBm)
Max. output power including tune-up tolerance:	35.15604405	(mW)
Antenna gain (Peak):	3.82	(dBi)
Maximum antenna gain:	2.409905429	(numeric)
Frequency	2462	MHz
Limit	2.7219	W
Evaluation Result		
The radiated power is $15.46 + 3.82 = 19.28 \text{ dBm(EIRP)} = 84.723 \text{ mW} = 0.084723 \text{ W}$		
that is less than or equal to 2.722W. Hence, following section 2.5.2 of RSS102 issue 5,		
RF exposure evaluation is no longer required.		

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SGS Taiwan Ltd.

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802.11 n_HT20(MIMO):

Max. output power including tune-up tolerance:	15.48	(dBm)
Max. output power including tune-up tolerance:	35.31831698	(mW)
Antenna gain (Peak):	6.83	(dBi)
Maximum antenna gain:	4.819477976	(numeric)
Frenquency	2412	MHz
Limit	2.6840	W

Evaluation Result

The radiated power is $15.48 + 6.83 = 22.31$ dBm(EIRP) =170.216mW =0.170216W

that is less than or equal to 2.684W. Hence, following section 2.5.2 of RSS102 issue 5,
RF exposure evaluation is no longer required.

802.11 n_HT40(MIMO):

Max. output power including tune-up tolerance:	15.61	(dBm)
Max. output power including tune-up tolerance:	36.39150361	(mW)
Antenna gain (Peak):	6.83	(dBi)
Maximum antenna gain:	4.819477976	(numeric)
Frenquency	2422	MHz
Limit	2.6916	W

Evaluation Result

The radiated power is $15.61 + 6.83 = 22.44$ dBm(EIRP) =175.388mW =0.175388W

that is less than or equal to 2.692W. Hence, following section 2.5.2 of RSS102 issue 5,
RF exposure evaluation is no longer required.

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