

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION CLASS II PERMISSIVE CHANGE TEST REPORT

OF

**Product Name:** Embedded wireless module  
**Brand Name:** Silex  
**Model No.:** SX-SDMAC-2832S, SX-SDMAC-2832S+  
**Model Difference:** For market segmentation  
**FCC ID:** N6C-PMACS  
**Report No.:** ER/2017/70042-01  
**Issue Date:** Sep. 29, 2017  
**FCC Rule Part:** §15.247, Cat: DTS  
**Prepared for:** silex technology, Inc  
 2-3-1Hikaridai, Seika-cho, Souraku-gun, Kyoto  
 619-0237  
**Prepared by:** SGS Taiwan Ltd.  
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## VERIFICATION OF COMPLIANCE

**Applicant:** silex technology,Inc  
2-3-1Hikaridai,Seika-cho,Souraku-gun,Kyoto 619-0237

**Product Name:** Embedded wireless module

**Brand Name:** Silex

**Model No.:** SX-SDMAC-2832S, SX-SDMAC-2832S+

**Model Difference:** For market segmentation

**FCC ID:** N6C-PMACS

**Report Number:** ER/2017/70042-01

**Date of test:** Sep. 07, 2017~Sep. 08, 2017

**Date of EUT Received:** Sep. 06, 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:**

*Cooper Hsu*

**Date:**

Sep. 29, 2017

*Cooper Hsu / Engineer*

**Prepared By:**

*Allen Tsai*

**Date:**

Sep. 29, 2017

*Allen Tsai / Engineer*

**Approved By:**

*Jim Chang*

**Date:**

Sep. 29, 2017

*Jim Chang / Asst. Manager*

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## Revision History

Report Number	Revision	Description	Issue Date
ER/2017/70042-01	Rev.00	Initial creation of document	Sep. 29, 2017

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## 1 GENERAL INFORMATION

### 1.1 Product description

General:

Product Name:	Embedded wireless module
Brand Name:	Silex
Model No.:	SX-SDMAC-2832S, SX-SDMAC-2832S+
Model Difference:	For market segmentation
Software version:	N/A
Hardware version:	N/A
Power Supply:	3.3Vdc from Power supply

### WLAN 2.4GHz:

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (dBm)	Modulation Technology
b	2412-2462	11	20.56 (Peak) / 17.98 (Avg.)	DSSS
g			22.72 (Peak) / 16.47 (Avg.)	OFDM
n_HT20			22.66 (Peak) / 16.25 (Avg.)	OFDM
n_HT40	2422-2452	7	22.91 (Peak) / 16.29 (Avg.)	OFDM
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 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps			

### Class II Pmissive Change

Scope:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow new antennas to be included in this authorization.
Class II Permissive change:	Adding New antennas to this certified module under FCC ID: N6C-PMACS

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Antenna Type	Supplier	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)	Worst Antenna Gain
ROD antenna	Sansei Denki	ANTB98-061A0	2.4GHz	1.50	
		ANTDP-027A0		1.50	
		ANTDP-039A0		1.50	
		ANTDC-081A0		2.00	V
		ANTDC-081B0		2.00	V
	VSO	GRF1763		1.50	
		GRF1765		1.50	
		GRF1762		2.00	V
		GRF1802		2.00	V

**Note:** Pre-scanned was done on the above 9 antennas, the ANTDC-081A0 results higher emission at 2.4GHz. Therefore, the completed set of measurement was done on the antenna to be presented on this test report.

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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

ANSI C63.10:2013

Note:

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

## 1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 (TAF code 0513)

FCC Registration Number and Designation Number are: 509634 / TW0001

## 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 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 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.

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## 2.4 Configuration of Tested System

**Fig. 2-1 Conducted Emission Configuration**



**Fig. 2-2 Radiated Emission Configuration**



**Table 2-1 Equipment Used in Tested System**

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	Notebook	DELL	E5400	3704625136	Shielded	Unshielded
2	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A

## 3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b, 802.11g and 802.11n\_HT20

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

7 channels are provided for 802.11n\_HT40

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

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

#### 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 E1 position was reported.

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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 : <b>Vertical</b> )	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : <b>Horizontal</b> )	9kHz – 30MHz: +/- 2.87 dB
	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 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 6.1 Standard Applicable

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

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

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

**Note:**

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

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## 6.2 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/11/2017	05/10/2018
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/25/2017	04/24/2018
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/04/2017	08/03/2018
Pre-Amplifier	Agilent	8447D	2944A07676	01/05/2017	01/04/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/05/2017	01/04/2018
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2017	06/30/2018
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018

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

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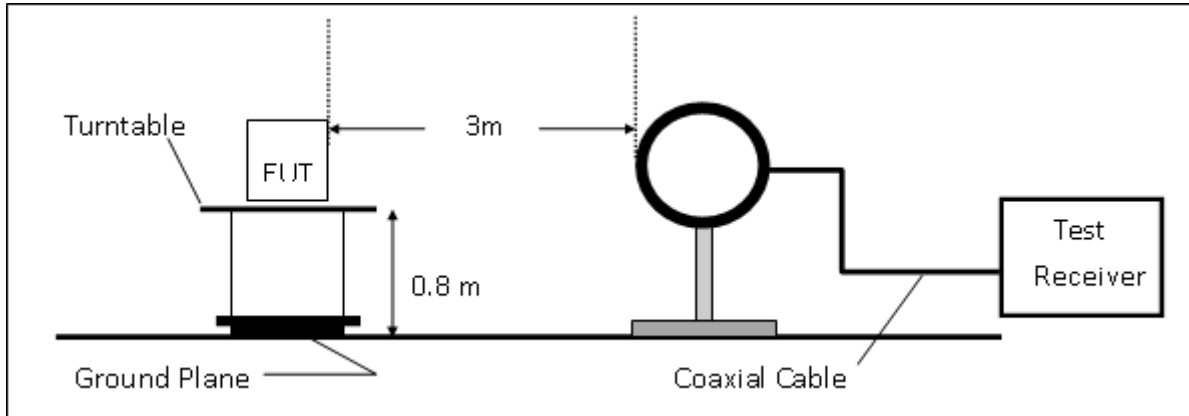
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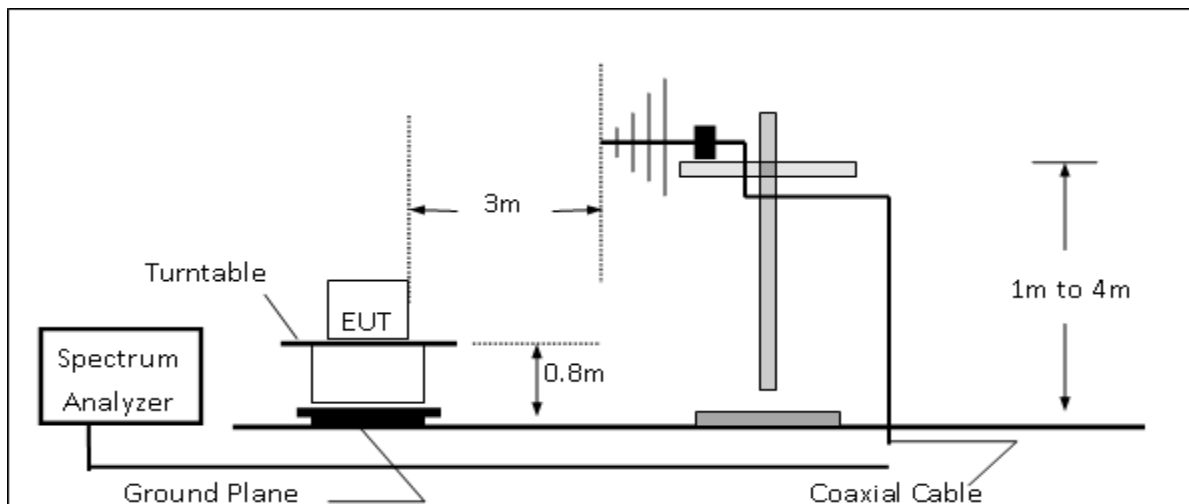
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### 6.3 Test SET-UP

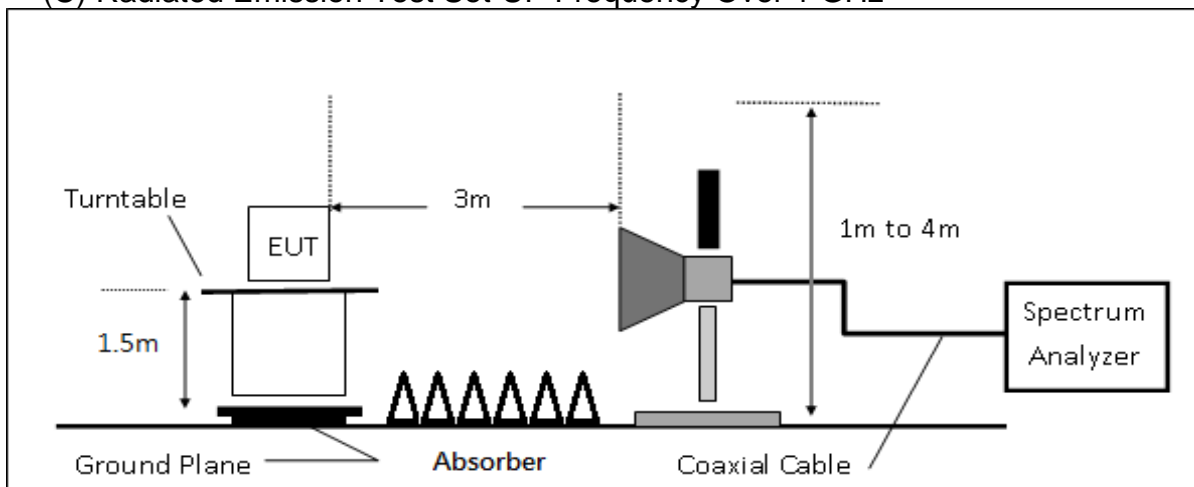
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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## 6.4 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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### 6.5 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.

### 6.6 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.

### 6.7 Measurement Result

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

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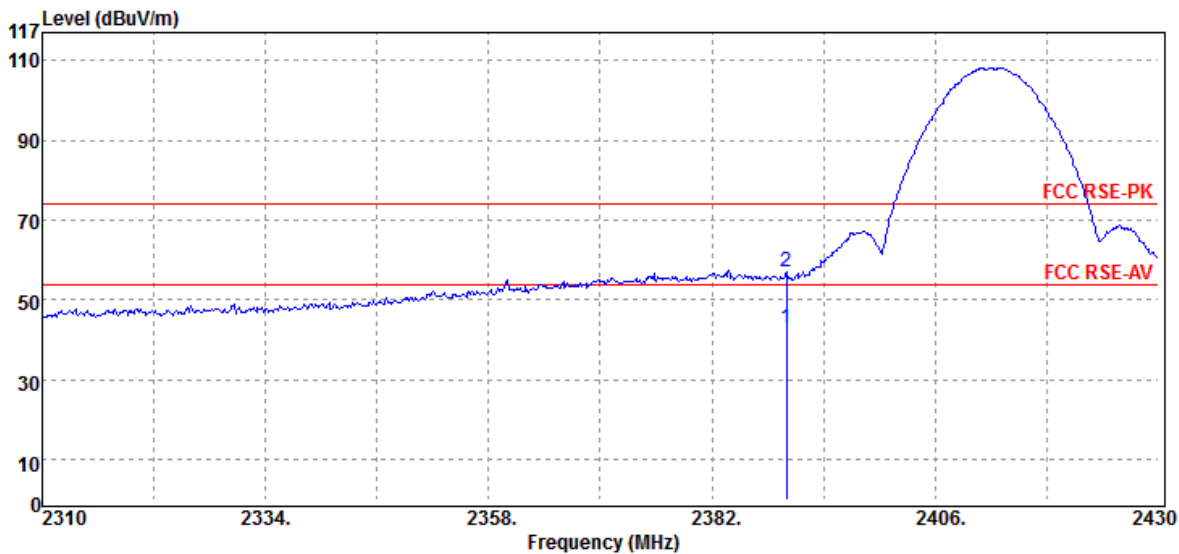
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### Radiated Band Edge Measurement Result

Operation Band	:802.11b	Test Date	:2017-09-07
Fundamental Frequency	:2412 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dB $\mu$ V		dB $\mu$ V/m	dB $\mu$ V/m	
2390.00	E	Average	44.80	-1.74	43.06	54.00	-10.94
2390.00	E	Peak	58.65	-1.74	56.91	74.00	-17.09

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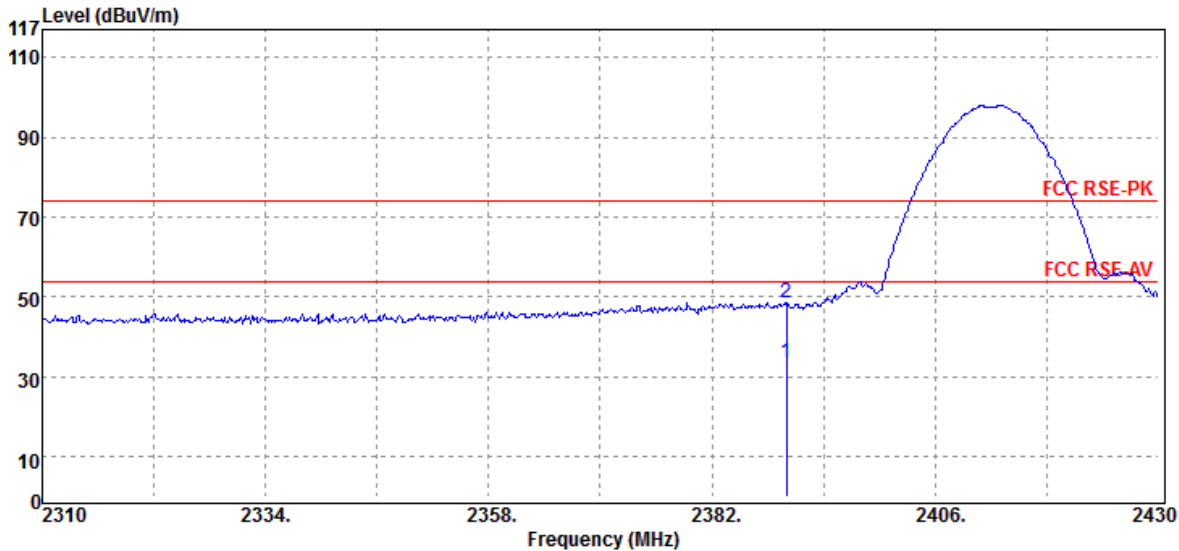
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Operation Band	:802.11b	Test Date	:2017-09-07
Fundamental Frequency	:2412 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2390.00	E	Average	35.28	-1.74	33.54	54.00	-20.46
2390.00	E	Peak	50.25	-1.74	48.51	74.00	-25.49

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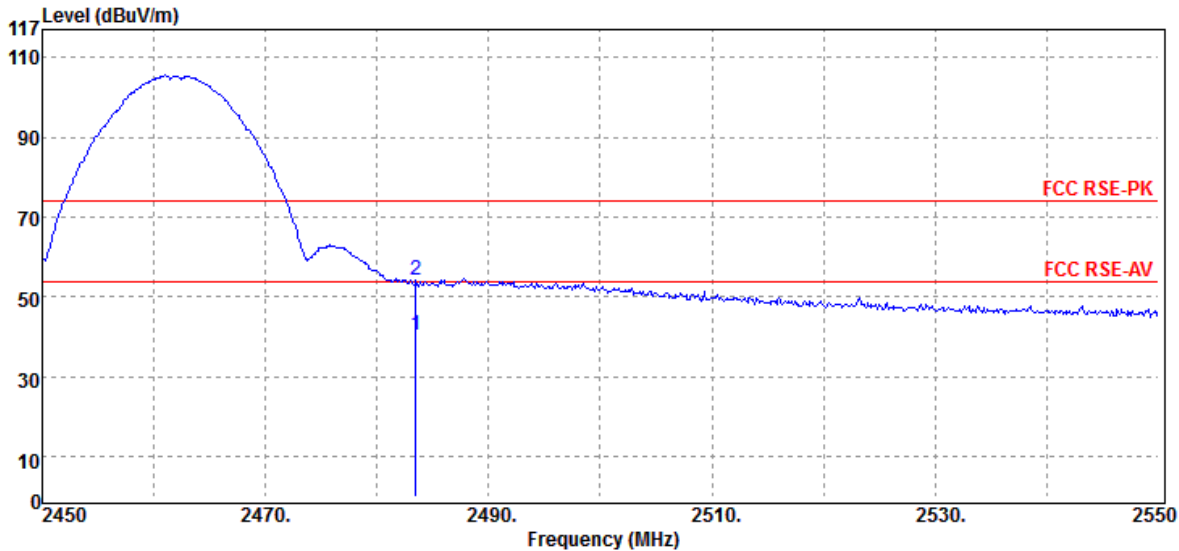
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Operation Band	:802.11b	Test Date	:2017-09-07
Fundamental Frequency	:2462 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.50	E	Average	42.10	-1.62	40.48	54.00	-13.52
2483.50	E	Peak	55.75	-1.62	54.13	74.00	-19.87

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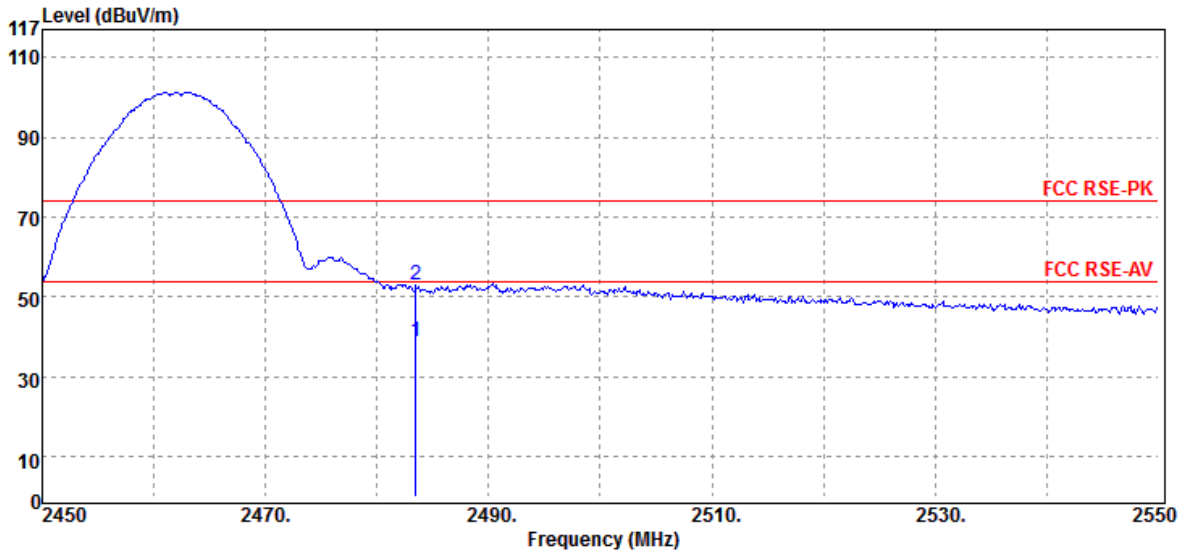
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Operation Band	:802.11b	Test Date	:2017-09-07
Fundamental Frequency	:2462 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.50	E	Average	40.50	-1.62	38.88	54.00	-15.12
2483.50	E	Peak	54.52	-1.62	52.90	74.00	-21.10

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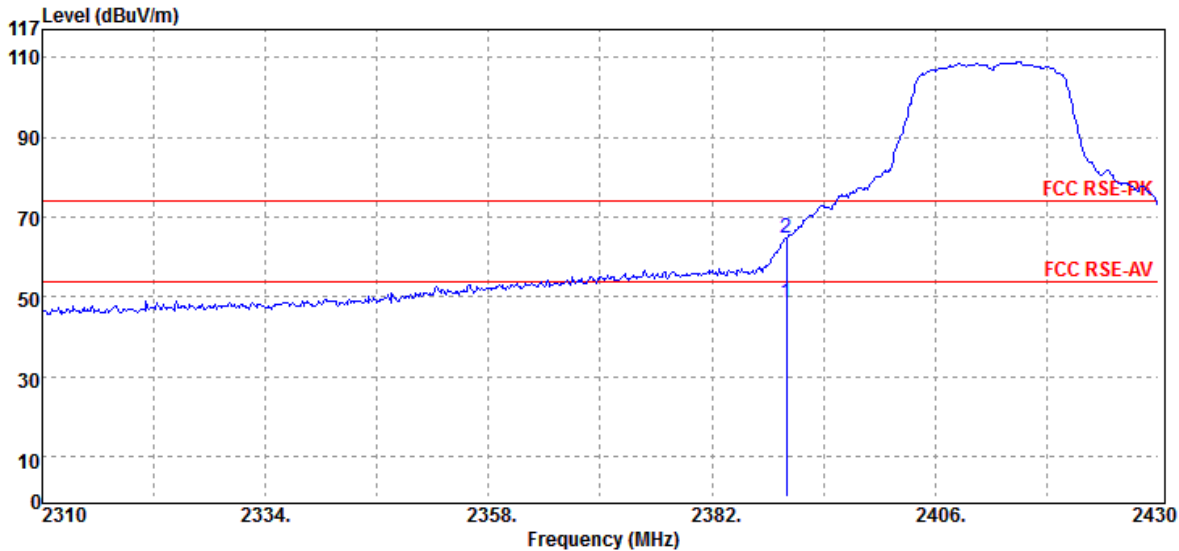
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Operation Band	:802.11g	Test Date	:2017-09-07
Fundamental Frequency	:2412 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2390.00	E	Average	50.28	-1.74	48.54	54.00	-5.46
2390.00	E	Peak	66.56	-1.74	64.82	74.00	-9.18

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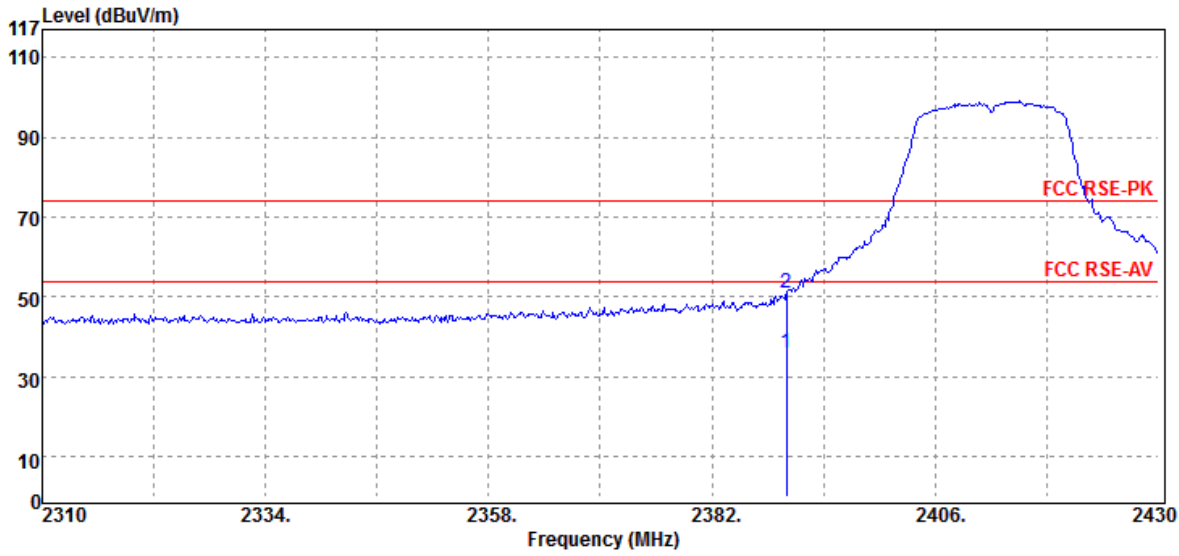
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Operation Band	:802.11g	Test Date	:2017-09-07
Fundamental Frequency	:2412 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2390.00	E	Average	37.60	-1.74	35.86	54.00	-18.14
2390.00	E	Peak	52.95	-1.74	51.21	74.00	-22.79

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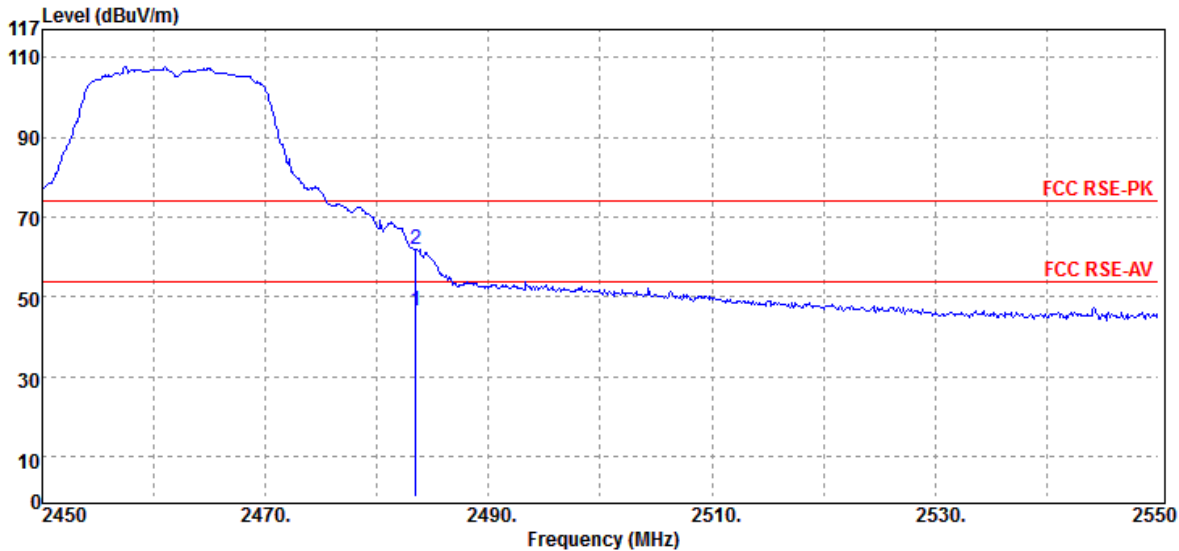
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Operation Band	:802.11g	Test Date	:2017-09-07
Fundamental Frequency	:2462 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.50	E	Average	48.06	-1.62	46.44	54.00	-7.56
2483.50	E	Peak	63.67	-1.62	62.05	74.00	-11.95

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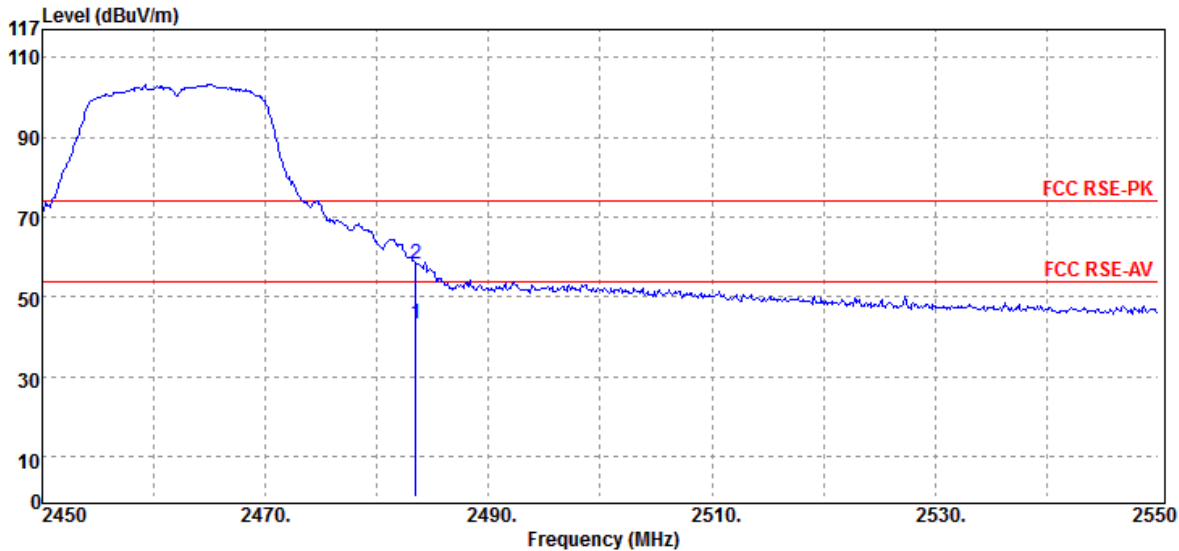
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Operation Band	:802.11g	Test Date	:2017-09-07
Fundamental Frequency	:2462 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.50	E	Average	45.07	-1.62	43.45	54.00	-10.55
2483.50	E	Peak	59.80	-1.62	58.18	74.00	-15.82

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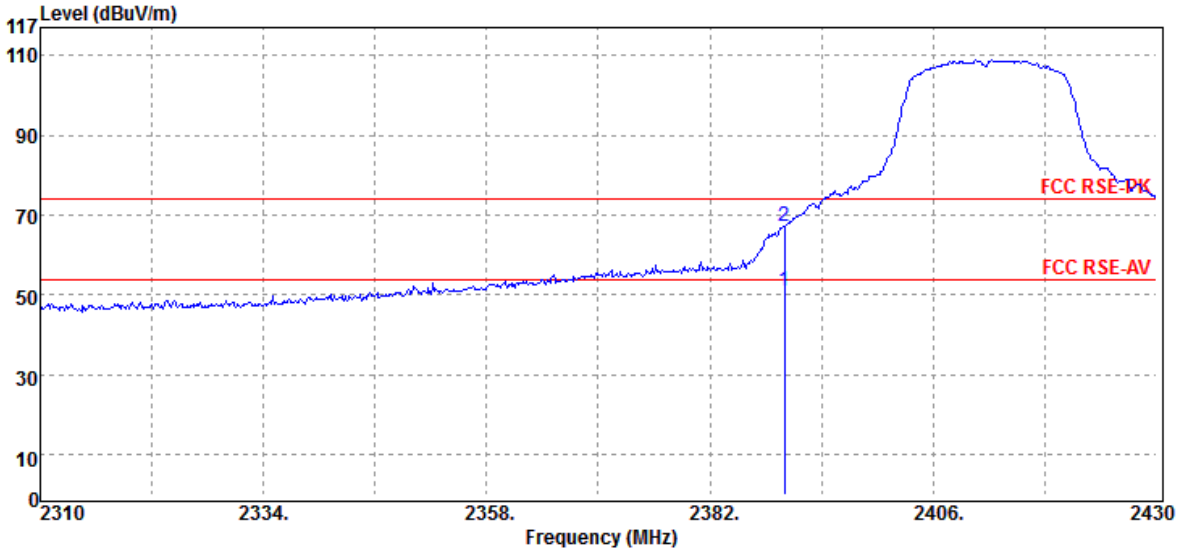
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Operation Band	:802.11n20	Test Date	:2017-09-07
Fundamental Frequency	:2412 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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
2390.00	E	Average	52.85	-1.74	51.11	54.00	-2.89
2390.00	E	Peak	68.84	-1.74	67.10	74.00	-6.90

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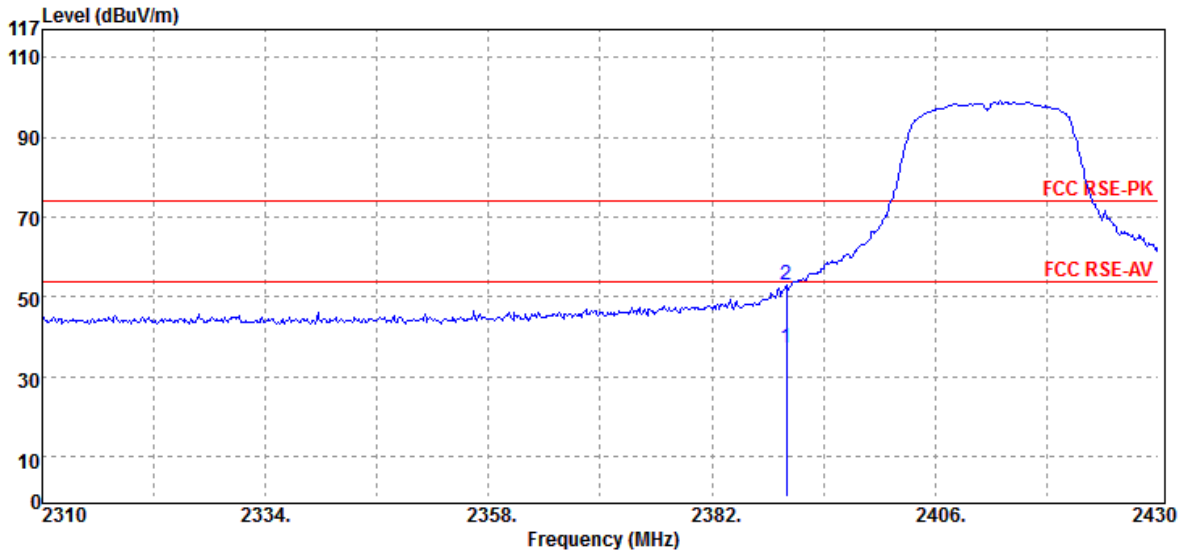
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Operation Band :802.11n20  
Fundamental Frequency :2412 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2017-09-07  
Temp./Humi. :22 deg\_C / 61 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2390.00	E	Average	39.13	-1.74	37.39	54.00	-16.61
2390.00	E	Peak	54.82	-1.74	53.08	74.00	-20.92

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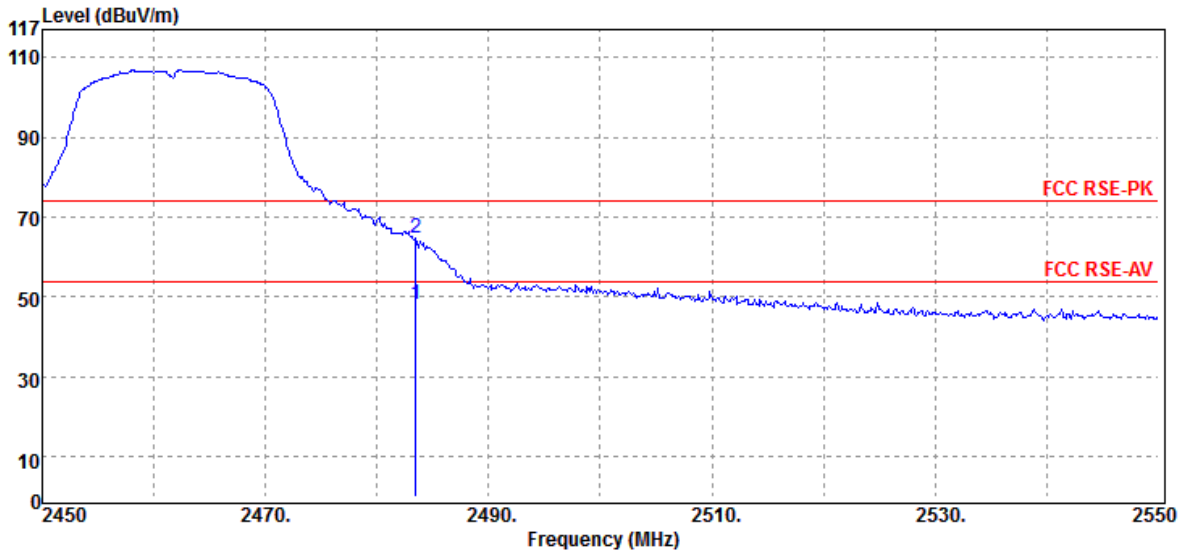
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Operation Band	:802.11n20	Test Date	:2017-09-07
Fundamental Frequency	:2462 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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	Average	49.96	-1.62	48.34	54.00	-5.66
2483.50	E	Peak	66.56	-1.62	64.94	74.00	-9.06

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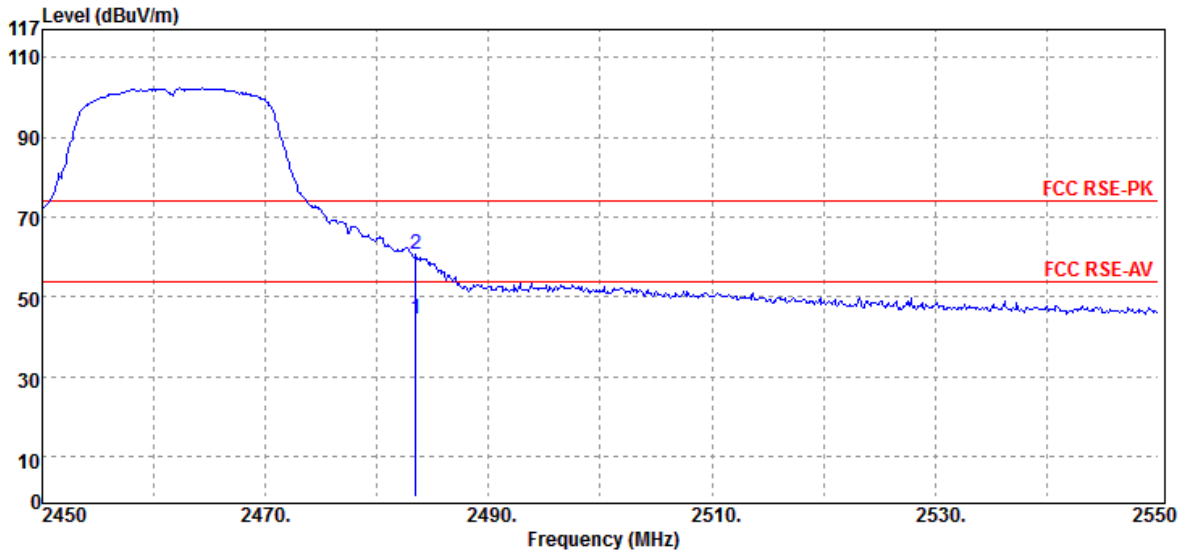
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Operation Band :802.11n20  
Fundamental Frequency :2462 MHz  
Operation Mode :Bandedge CH HIGH  
EUT Pol. :E2 Plane

Test Date :2017-09-07  
Temp./Humi. :22 deg\_C / 61 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.50	E	Average	46.22	-1.62	44.60	54.00	-9.40
2483.50	E	Peak	62.18	-1.62	60.56	74.00	-13.44

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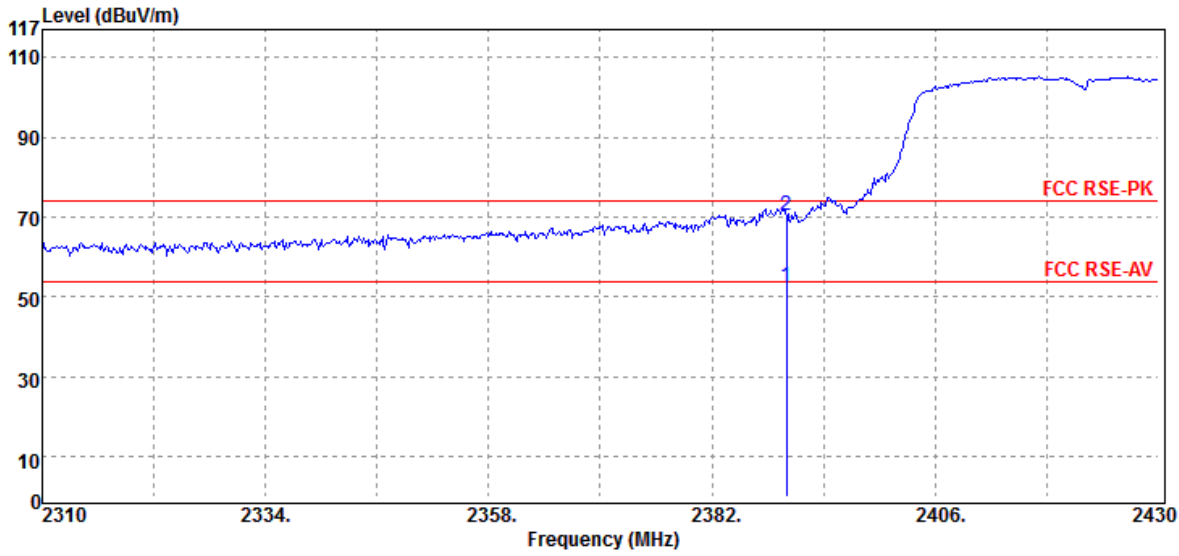
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Operation Band :802.11n40  
 Fundamental Frequency :2422 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2017-09-07  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 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
2390.00	E	Average	54.42	-1.74	52.68	54.00	-1.32
2390.00	E	Peak	72.01	-1.74	70.27	74.00	-3.73

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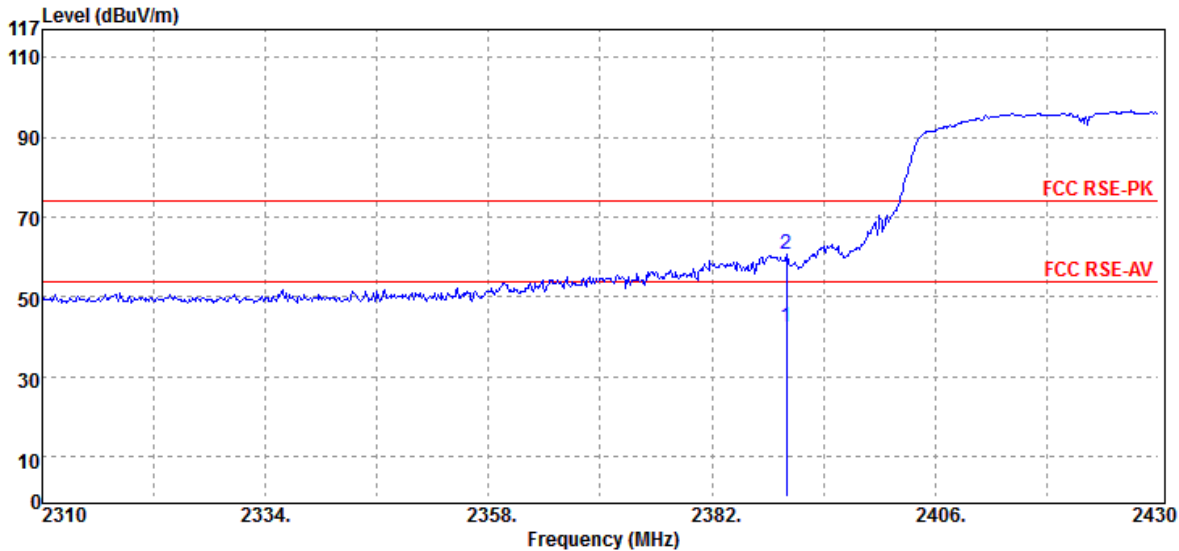
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Operation Band	:802.11n40	Test Date	:2017-09-07
Fundamental Frequency	:2422 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2390.00	E	Average	44.20	-1.74	42.46	54.00	-11.54
2390.00	E	Peak	62.65	-1.74	60.91	74.00	-13.09

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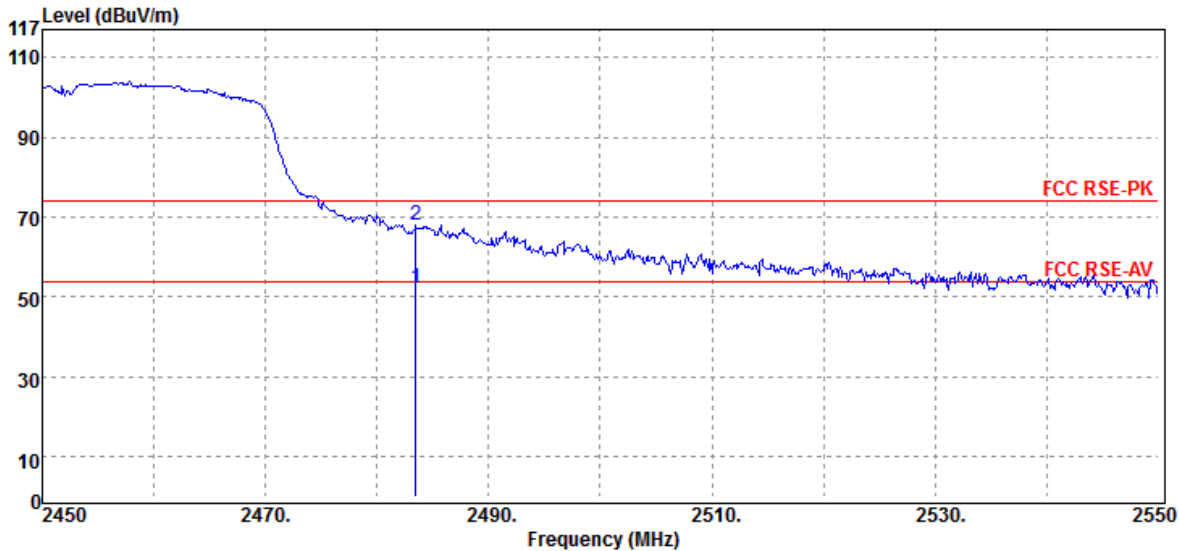
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Operation Band :802.11n40  
Fundamental Frequency :2422 MHz  
Operation Mode :Bandedge CH HIGH  
EUT Pol. :E2 Plane

Test Date :2017-09-07  
Temp./Humi. :21 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.50	E	Average	54.00	-1.62	52.38	54.00	-1.62
2483.50	E	Peak	69.74	-1.62	68.12	74.00	-5.88

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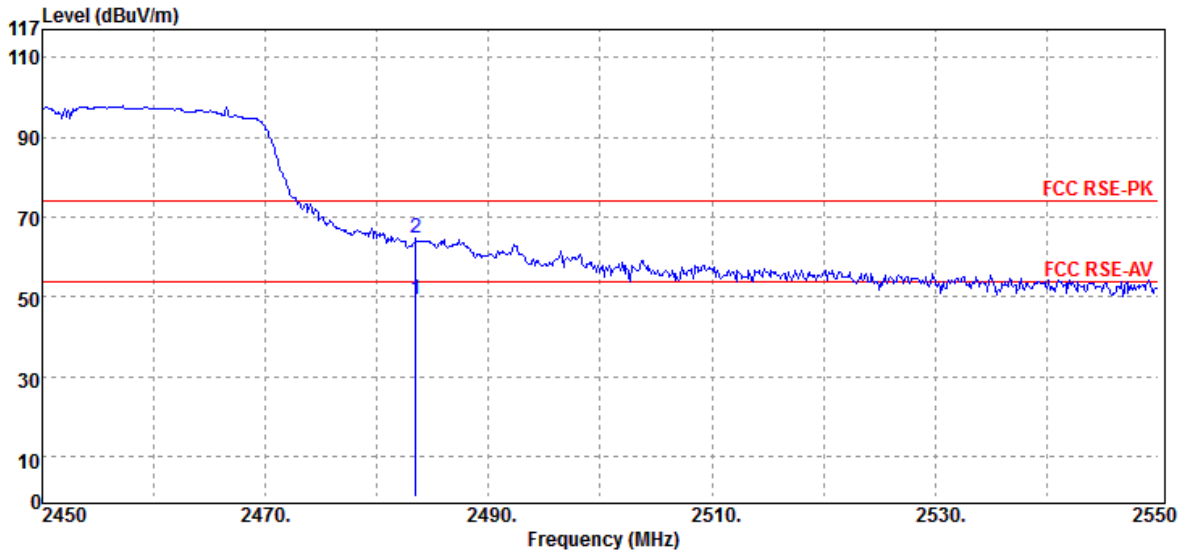
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Operation Band	:802.11n40	Test Date	:2017-09-07
Fundamental Frequency	:2422 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.50	E	Average	50.90	-1.62	49.28	54.00	-4.72
2483.50	E	Peak	66.57	-1.62	64.95	74.00	-9.05

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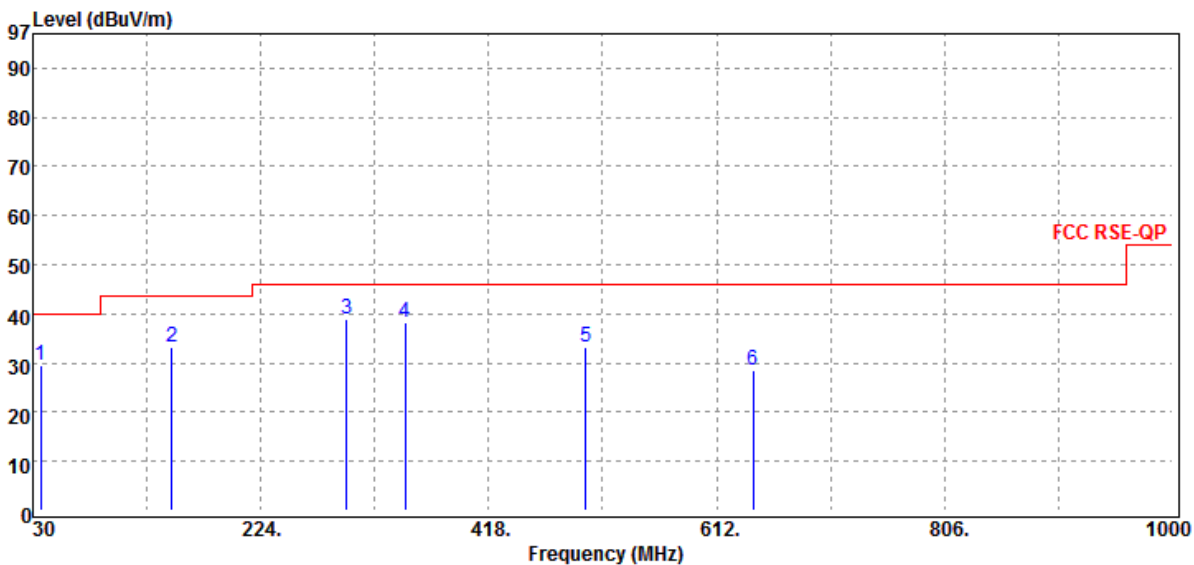
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**Below 1GHz Worst-Case Data:**

**Radiated Spurious Emission Measurement Result**

Operation Band	:802.11g	Test Date	:2017-09-08
Fundamental Frequency	:2412 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
36.79	S	Peak	38.30	-8.84	29.46	40.00	-10.54
148.34	S	Peak	41.03	-7.89	33.14	43.50	-10.36
296.75	S	Peak	44.94	-5.98	38.96	46.00	-7.04
347.19	S	Peak	43.17	-4.95	38.22	46.00	-7.78
500.45	S	Peak	35.77	-2.68	33.09	46.00	-12.91
643.04	S	Peak	27.90	0.65	28.55	46.00	-17.45

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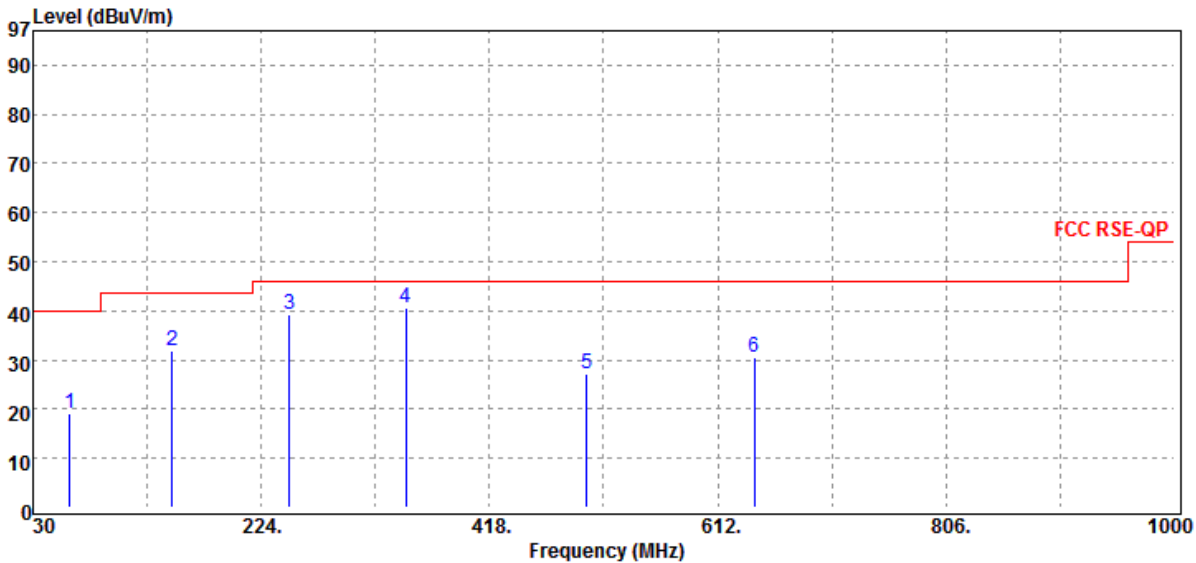
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Operation Band	:802.11g	Test Date	:2017-09-08
Fundamental Frequency	:2412 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
61.04	S	Peak	27.55	-8.25	19.30	40.00	-20.70
148.34	S	Peak	39.76	-7.89	31.87	43.50	-11.63
248.25	S	Peak	47.28	-7.98	39.30	46.00	-6.70
347.19	S	Peak	45.47	-4.95	40.52	46.00	-5.48
500.45	S	Peak	29.80	-2.68	27.12	46.00	-18.88
643.04	S	Peak	29.92	0.65	30.57	46.00	-15.43

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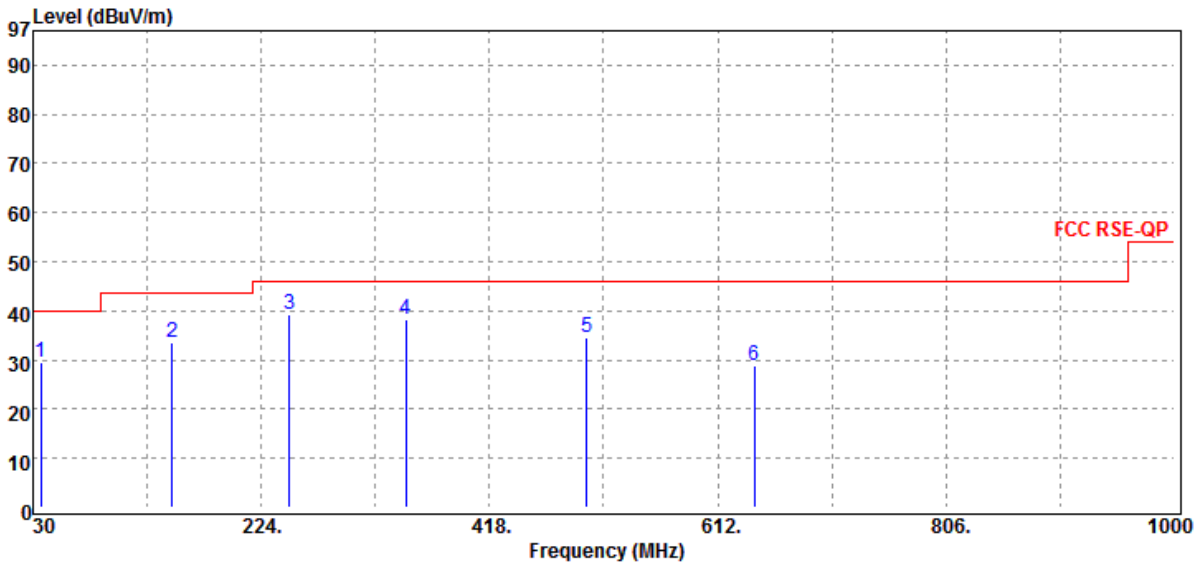
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Operation Band	:802.11g	Test Date	:2017-09-08
Fundamental Frequency	:2437 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
36.79	S	Peak	38.53	-8.84	29.69	40.00	-10.31
148.34	S	Peak	41.50	-7.89	33.61	43.50	-9.89
248.25	S	Peak	47.23	-7.98	39.25	46.00	-6.75
347.19	S	Peak	43.13	-4.95	38.18	46.00	-7.82
500.45	S	Peak	37.36	-2.68	34.68	46.00	-11.32
643.04	S	Peak	28.15	0.65	28.80	46.00	-17.20

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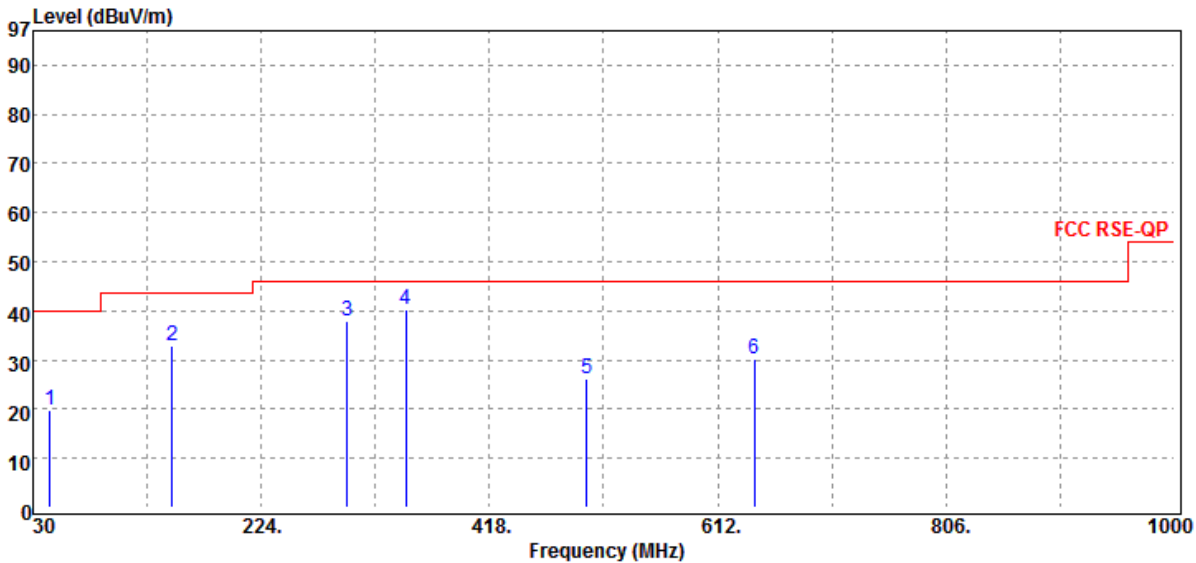
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Operation Band	:802.11g	Test Date	:2017-09-08
Fundamental Frequency	:2437 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
44.55	S	Peak	27.94	-8.09	19.85	40.00	-20.15
148.34	S	Peak	40.74	-7.89	32.85	43.50	-10.65
296.75	S	Peak	44.00	-5.98	38.02	46.00	-7.98
347.19	S	Peak	45.38	-4.95	40.43	46.00	-5.57
500.45	S	Peak	28.90	-2.68	26.22	46.00	-19.78
643.04	S	Peak	29.43	0.65	30.08	46.00	-15.92

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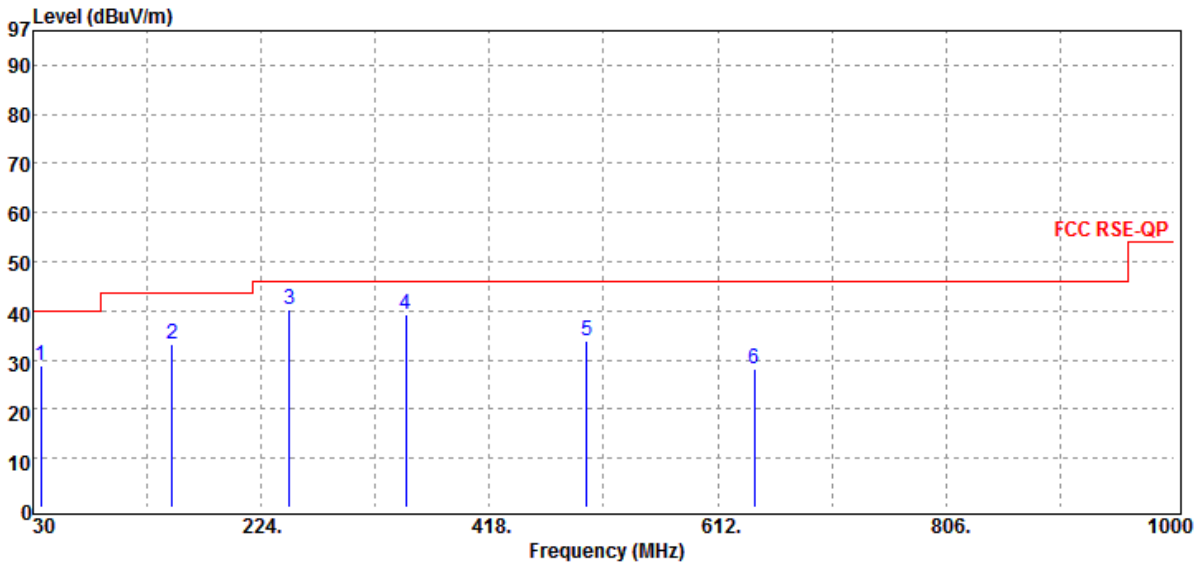
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Operation Band	:802.11g	Test Date	:2017-09-08
Fundamental Frequency	:2462 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
36.79	S	Peak	37.75	-8.84	28.91	40.00	-11.09
148.34	S	Peak	41.15	-7.89	33.26	43.50	-10.24
248.25	S	Peak	48.21	-7.98	40.23	46.00	-5.77
347.19	S	Peak	44.09	-4.95	39.14	46.00	-6.86
500.45	S	Peak	36.52	-2.68	33.84	46.00	-12.16
643.04	S	Peak	27.61	0.65	28.26	46.00	-17.74

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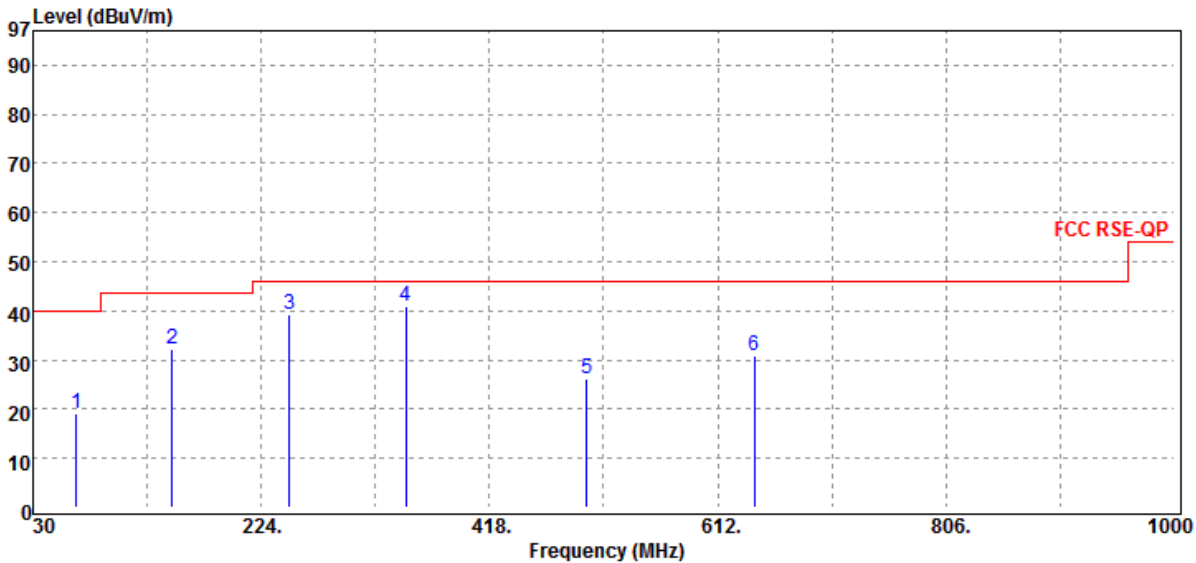
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Operation Band	:802.11g	Test Date	:2017-09-08
Fundamental Frequency	:2462 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
66.86	S	Peak	28.55	-9.58	18.97	40.00	-21.03
148.34	S	Peak	40.03	-7.89	32.14	43.50	-11.36
248.25	S	Peak	47.35	-7.98	39.37	46.00	-6.63
347.19	S	Peak	45.75	-4.95	40.80	46.00	-5.20
500.45	S	Peak	28.86	-2.68	26.18	46.00	-19.82
643.04	S	Peak	30.19	0.65	30.84	46.00	-15.16

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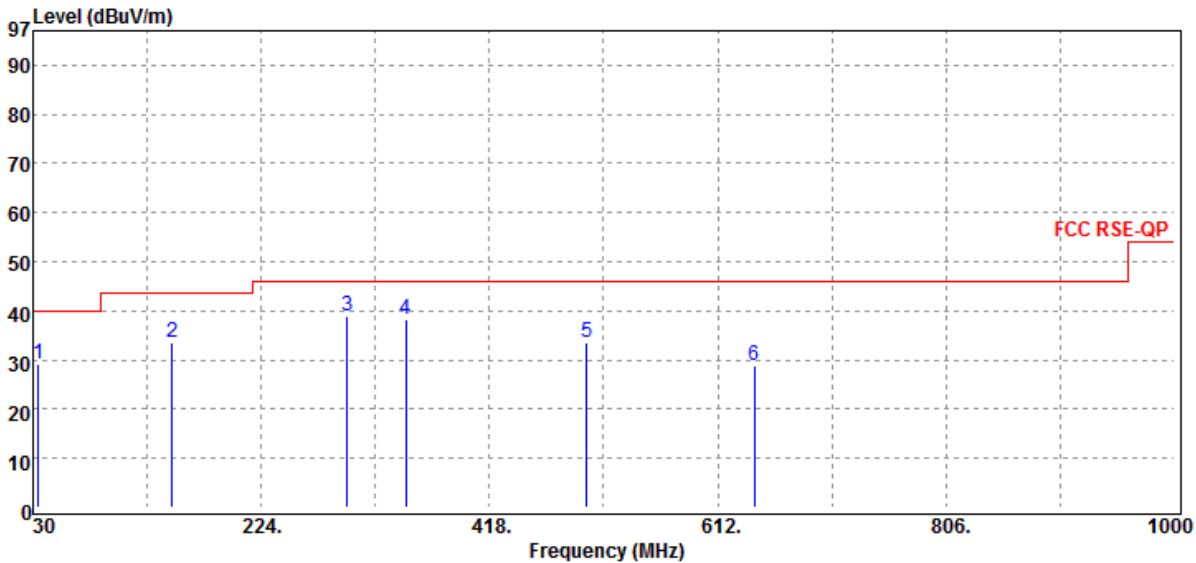
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Operation Band	:802.11n40	Test Date	:2017-09-08
Fundamental Frequency	:2422 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
34.85	S	Peak	38.17	-8.99	29.18	40.00	-10.82
148.34	S	Peak	41.46	-7.89	33.57	43.50	-9.93
296.75	S	Peak	45.03	-5.98	39.05	46.00	-6.95
347.19	S	Peak	43.12	-4.95	38.17	46.00	-7.83
500.45	S	Peak	36.40	-2.68	33.72	46.00	-12.28
643.04	S	Peak	28.07	0.65	28.72	46.00	-17.28

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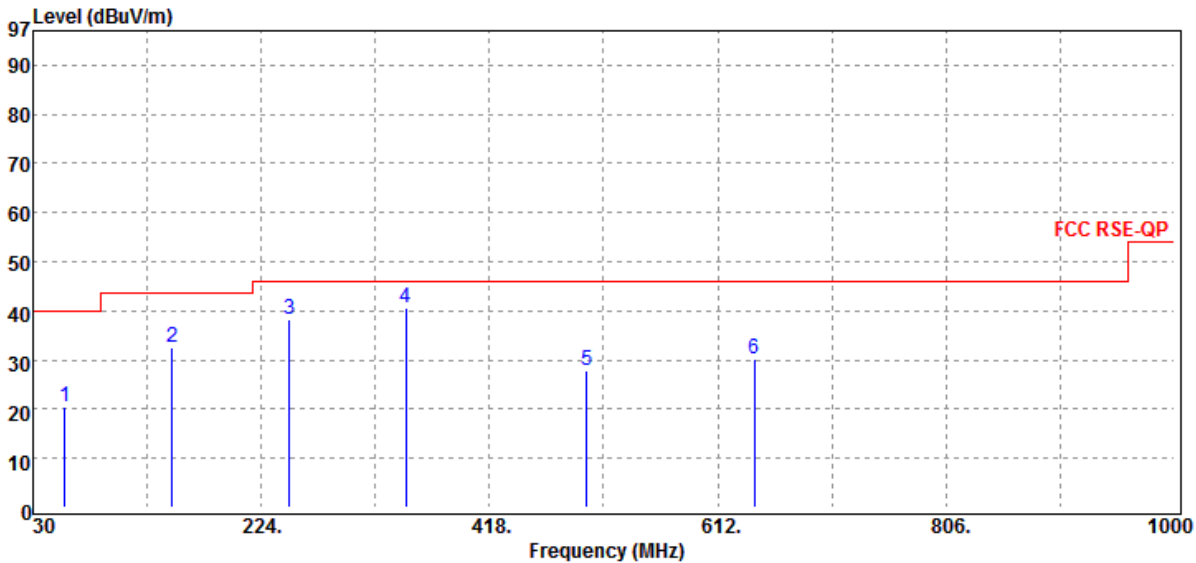
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Operation Band	:802.11n40	Test Date	:2017-09-08
Fundamental Frequency	:2422 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
57.16	S	Peak	28.38	-7.98	20.40	40.00	-19.60
148.34	S	Peak	40.35	-7.89	32.46	43.50	-11.04
248.25	S	Peak	46.32	-7.98	38.34	46.00	-7.66
347.19	S	Peak	45.67	-4.95	40.72	46.00	-5.28
500.45	S	Peak	30.51	-2.68	27.83	46.00	-18.17
643.04	S	Peak	29.71	0.65	30.36	46.00	-15.64

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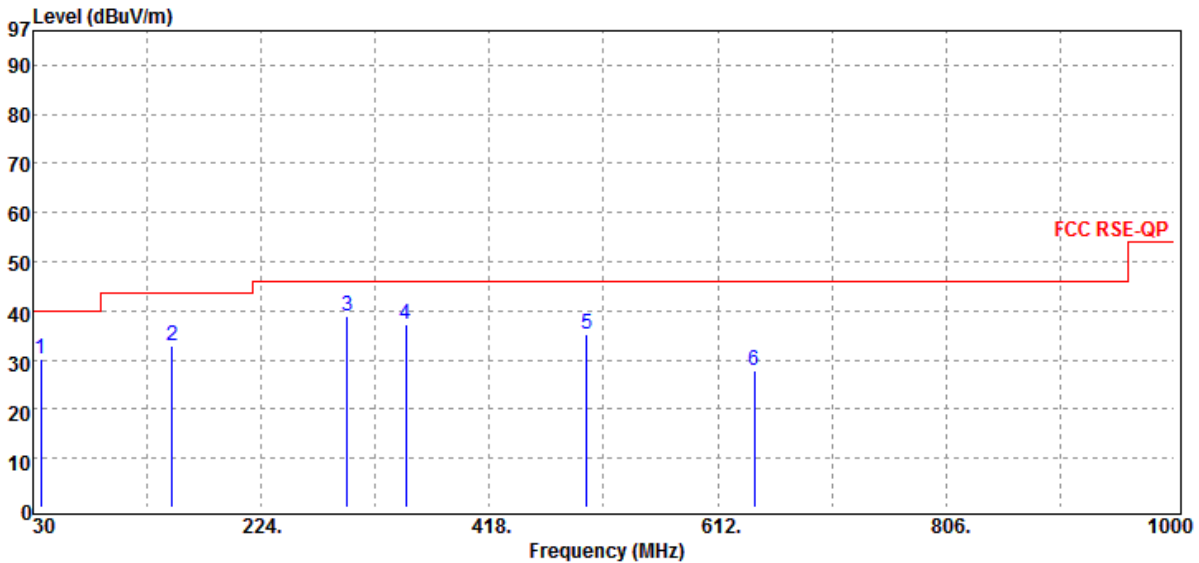
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Operation Band :802.11n40  
Fundamental Frequency :2437 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2017-09-08  
Temp./Humi. :22 deg\_C / 61 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
36.79	S	Peak	39.19	-8.84	30.35	40.00	-9.65
148.34	S	Peak	40.88	-7.89	32.99	43.50	-10.51
296.75	S	Peak	44.75	-5.98	38.77	46.00	-7.23
347.19	S	Peak	42.08	-4.95	37.13	46.00	-8.87
500.45	S	Peak	37.76	-2.68	35.08	46.00	-10.92
643.04	S	Peak	27.11	0.65	27.76	46.00	-18.24

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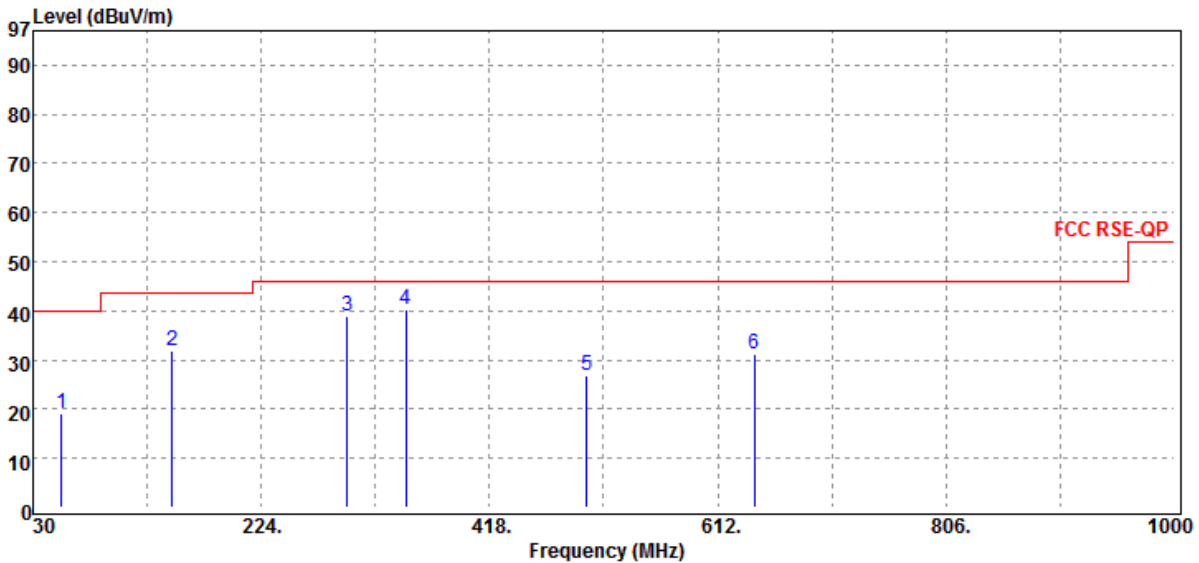
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Operation Band	:802.11n40	Test Date	:2017-09-08
Fundamental Frequency	:2437 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
54.25	S	Peak	27.06	-7.82	19.24	40.00	-20.76
148.34	S	Peak	39.76	-7.89	31.87	43.50	-11.63
296.75	S	Peak	44.97	-5.98	38.99	46.00	-7.01
347.19	S	Peak	45.33	-4.95	40.38	46.00	-5.62
500.45	S	Peak	29.61	-2.68	26.93	46.00	-19.07
643.04	S	Peak	30.61	0.65	31.26	46.00	-14.74

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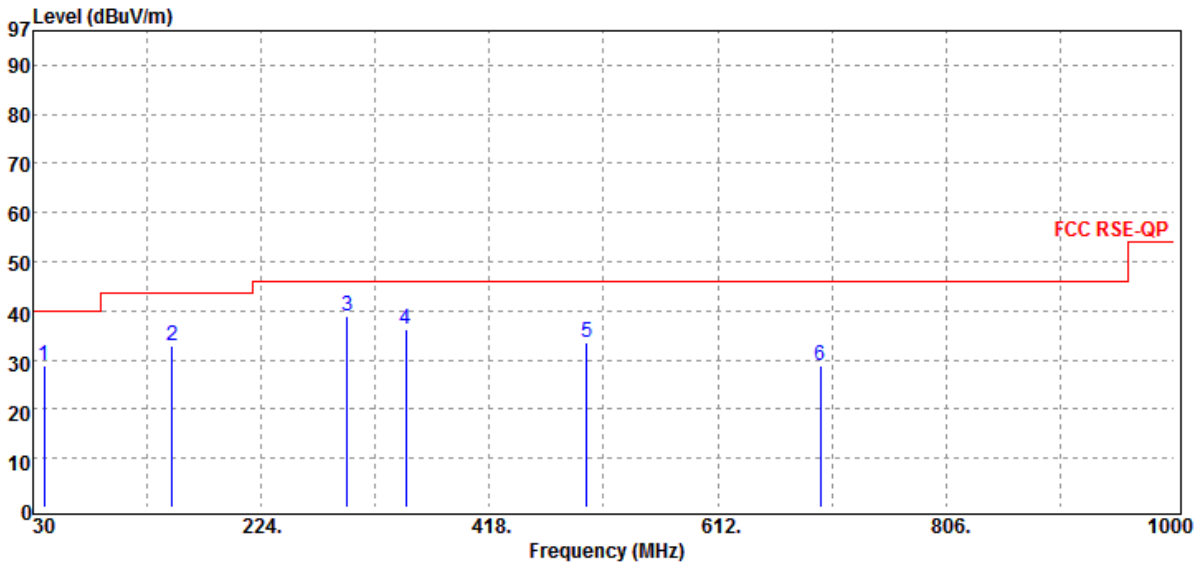
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Operation Band	:802.11n40	Test Date	:2017-09-08
Fundamental Frequency	:2452 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
39.70	S	Peak	37.53	-8.56	28.97	40.00	-11.03
148.34	S	Peak	40.83	-7.89	32.94	43.50	-10.56
296.75	S	Peak	44.91	-5.98	38.93	46.00	-7.07
347.19	S	Peak	41.23	-4.95	36.28	46.00	-9.72
500.45	S	Peak	36.33	-2.68	33.65	46.00	-12.35
699.30	S	Peak	27.45	1.44	28.89	46.00	-17.11

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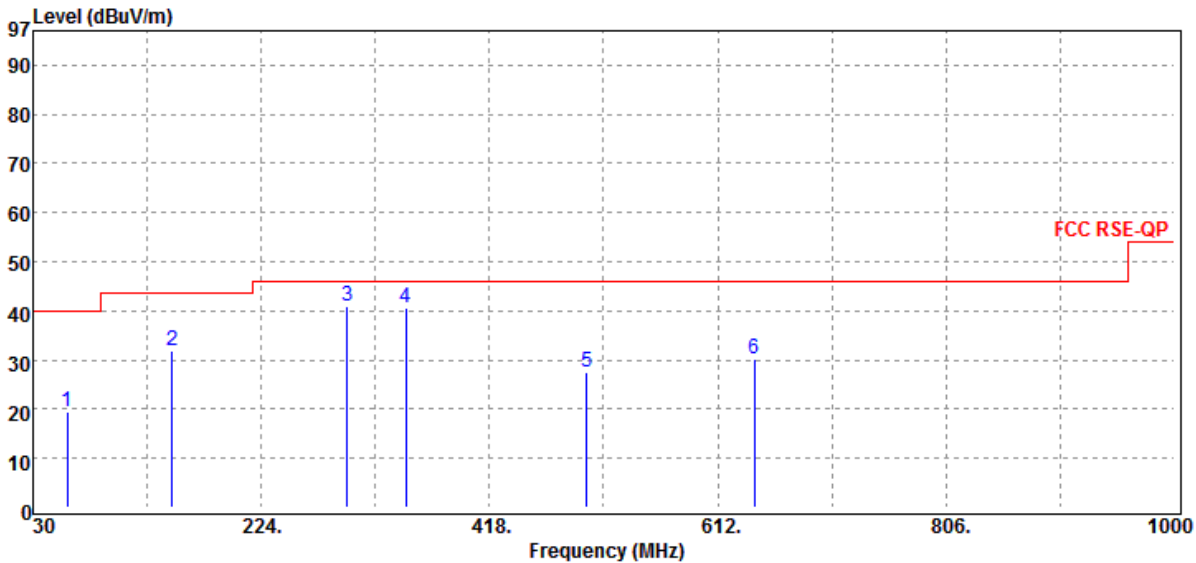
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Operation Band	:802.11n40	Test Date	:2017-09-08
Fundamental Frequency	:2452 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
59.10	S	Peak	27.36	-8.03	19.33	40.00	-20.67
148.34	S	Peak	39.92	-7.89	32.03	43.50	-11.47
296.75	S	Peak	47.05	-5.98	41.07	46.00	-4.93
347.19	S	Peak	45.52	-4.95	40.57	46.00	-5.43
500.45	S	Peak	30.33	-2.68	27.65	46.00	-18.35
643.04	S	Peak	29.46	0.65	30.11	46.00	-15.89

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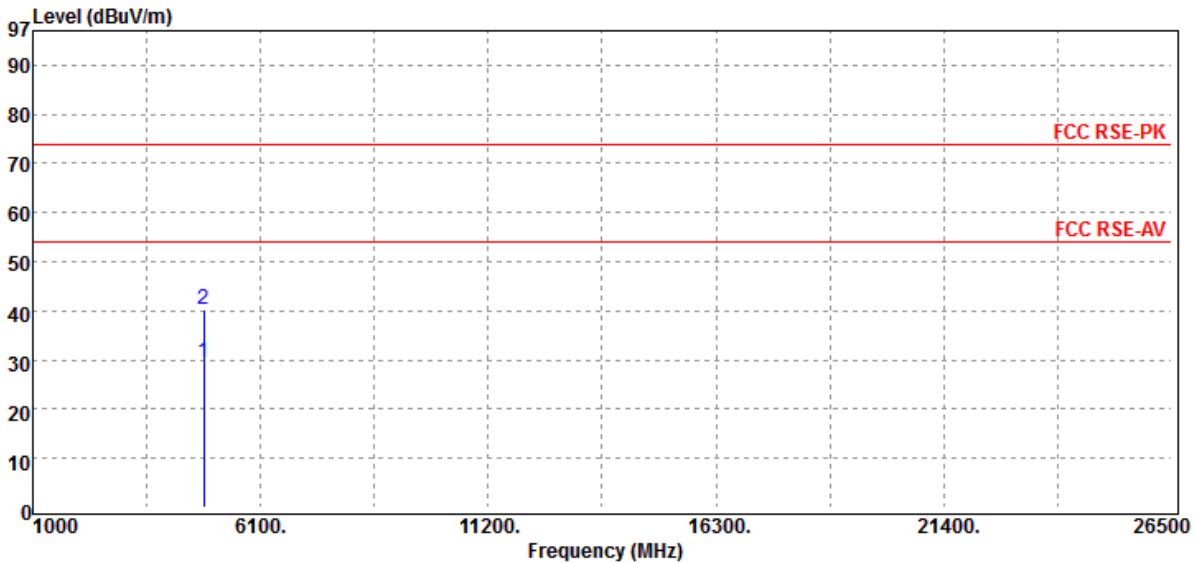
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**Above 1GHz Data:**

**Radiated Spurious Emission Measurement Result**

Operation Band	:802.11b	Test Date	:2017-09-07
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



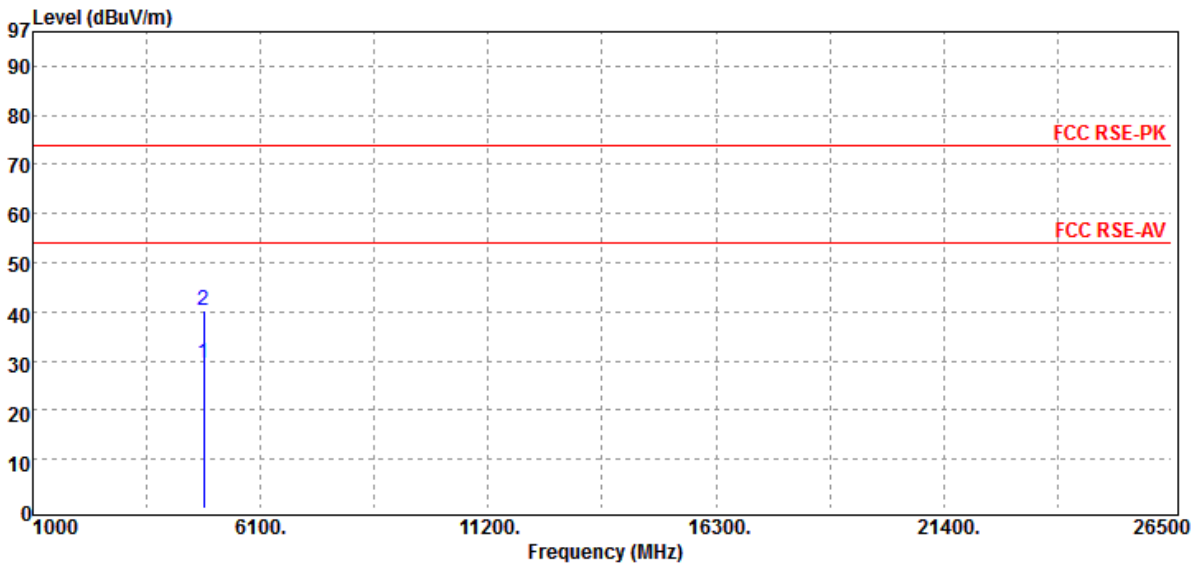
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
4824.00	H	Average	24.56	4.93	29.49	54.00	-24.51
4824.00	H	Peak	35.40	4.93	40.33	74.00	-33.67

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Operation Band	:802.11b	Test Date	:2017-09-07
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dBU $\mu$ V/m	Limit @3m dBU $\mu$ V/m	Safe Margin dB
4824.00	H	Average	24.68	4.93	29.61	54.00	-24.39
4824.00	H	Peak	35.19	4.93	40.12	74.00	-33.88

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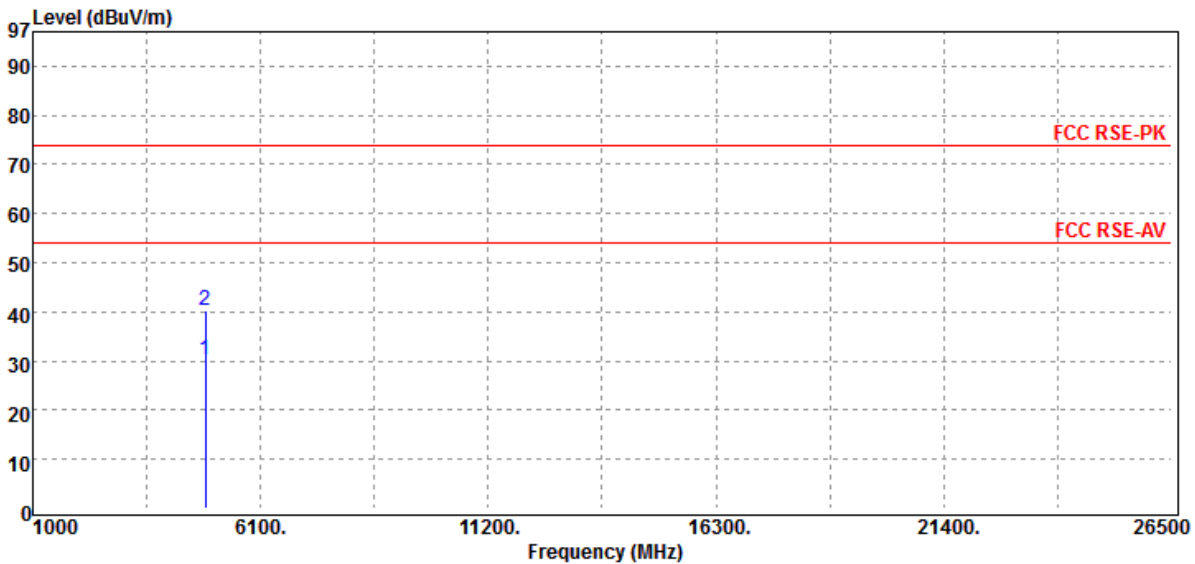
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Operation Band	:802.11b	Test Date	:2017-09-07
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
4874.00	H	Average	25.02	5.13	30.15	54.00	-23.85
4874.00	H	Peak	35.14	5.13	40.27	74.00	-33.73

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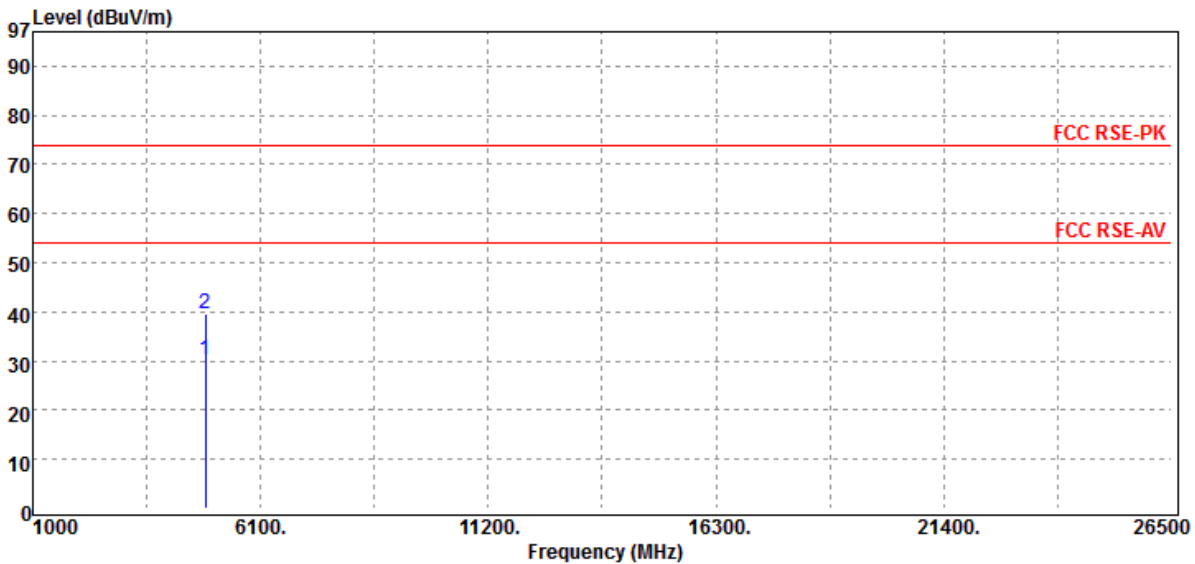
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Operation Band	:802.11b	Test Date	:2017-09-07
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4874.00	H	Average	25.13	5.13	30.26	54.00	-23.74
4874.00	H	Peak	34.59	5.13	39.72	74.00	-34.28

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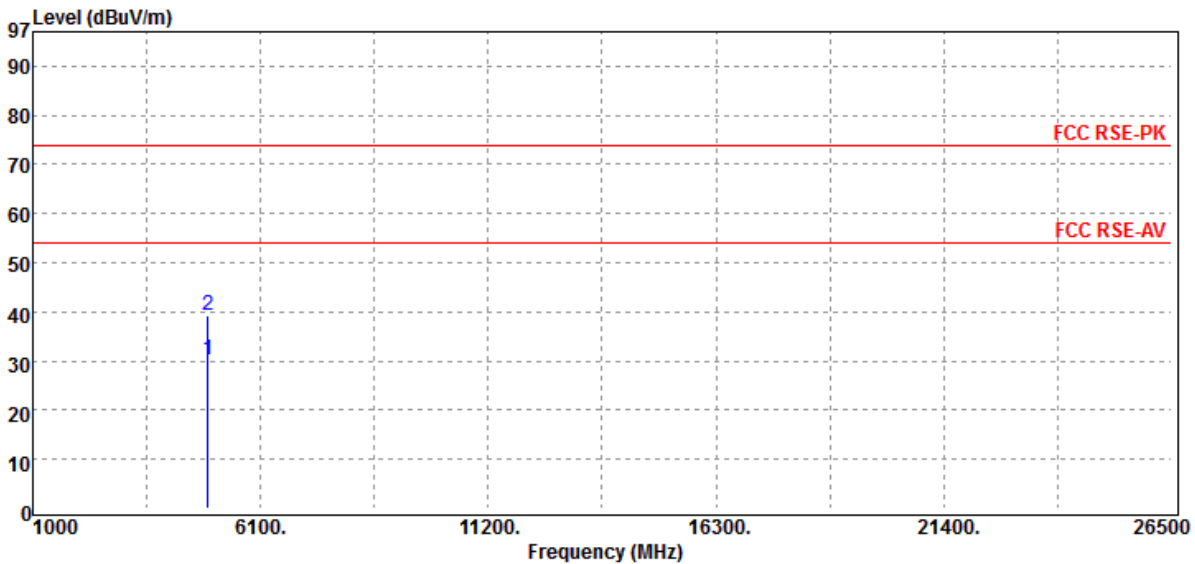
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Operation Band	:802.11b	Test Date	:2017-09-07
Fundamental Frequency	:2462 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4924.00	H	Average	24.87	5.25	30.12	54.00	-23.88
4924.00	H	Peak	34.13	5.25	39.38	74.00	-34.62

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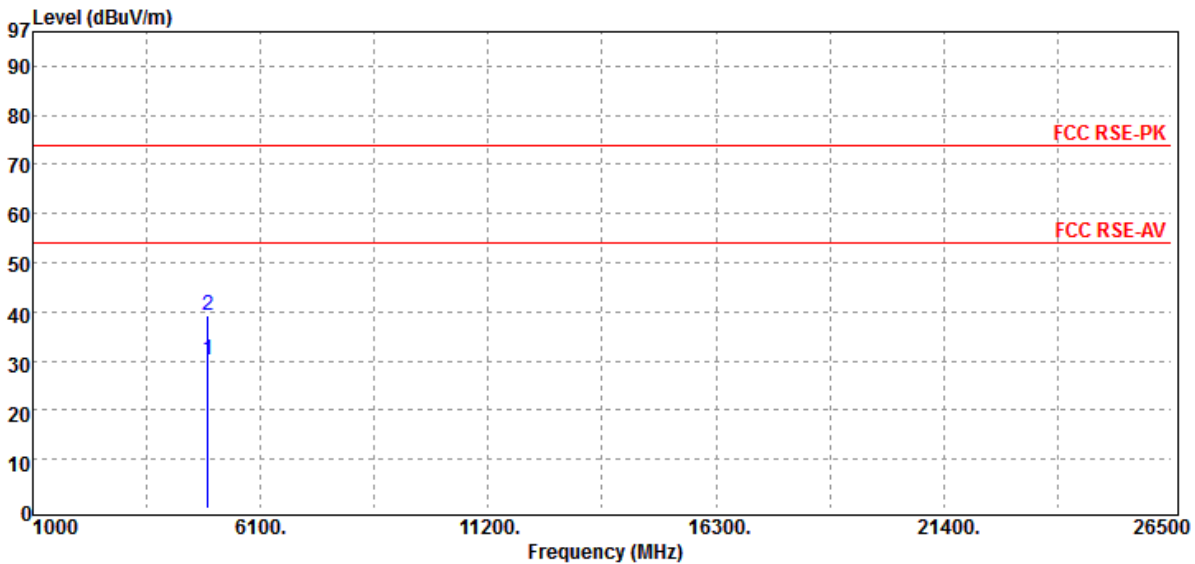
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Operation Band	:802.11b	Test Date	:2017-09-07
Fundamental Frequency	:2462 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4924.00	H	Average	24.93	5.25	30.18	54.00	-23.82
4924.00	H	Peak	34.09	5.25	39.34	74.00	-34.66

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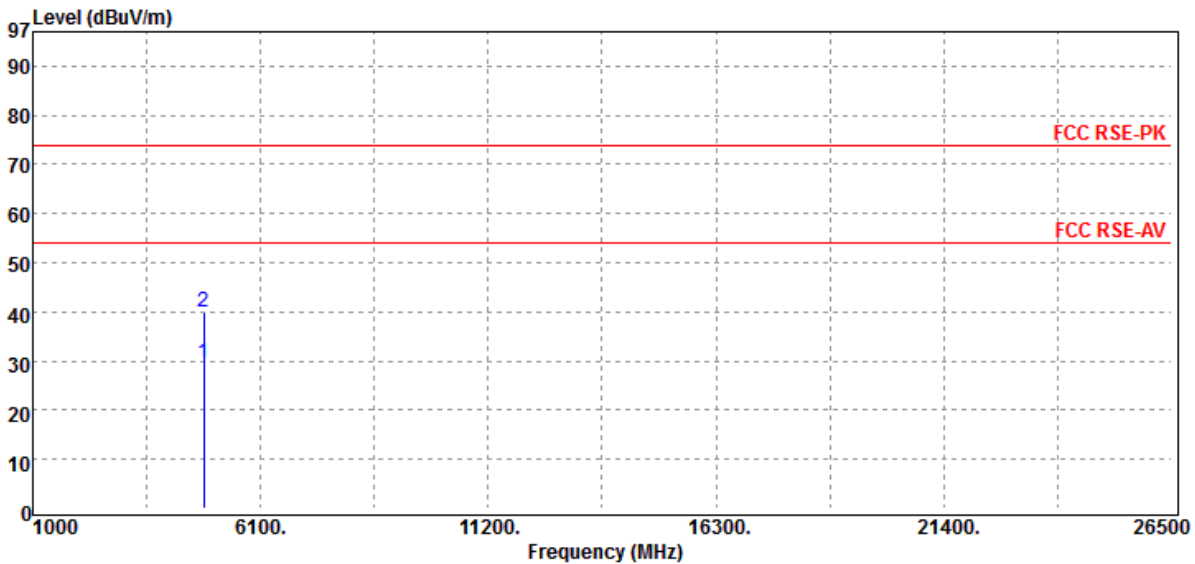
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Operation Band	:802.11g	Test Date	:2017-09-07
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
4824.00	H	Average	24.75	4.93	29.68	54.00	-24.32
4824.00	H	Peak	35.09	4.93	40.02	74.00	-33.98

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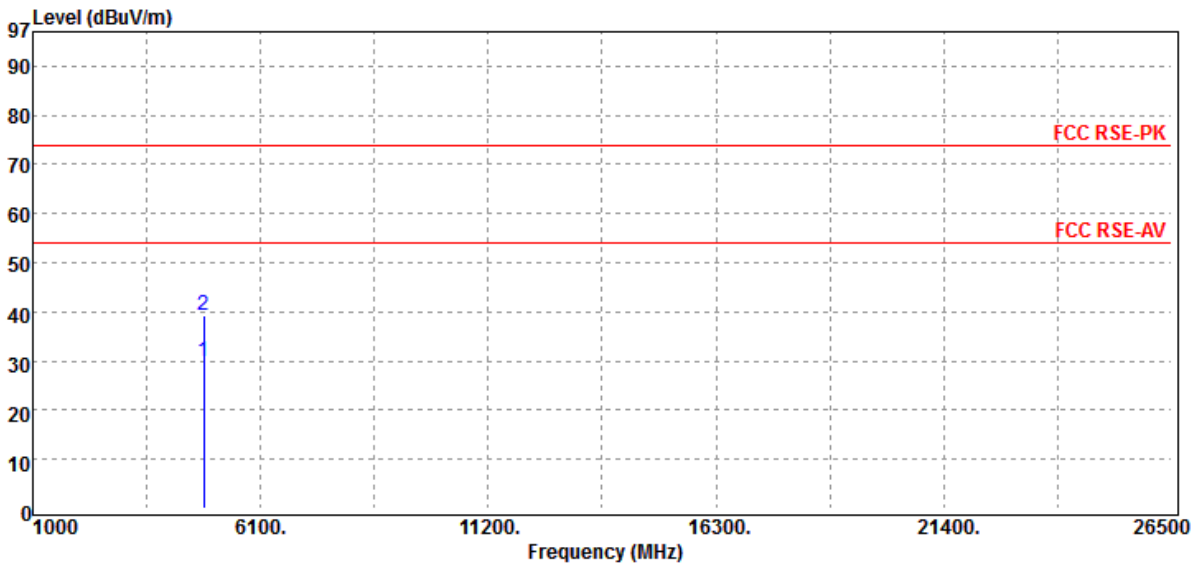
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Operation Band	:802.11g	Test Date	:2017-09-07
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



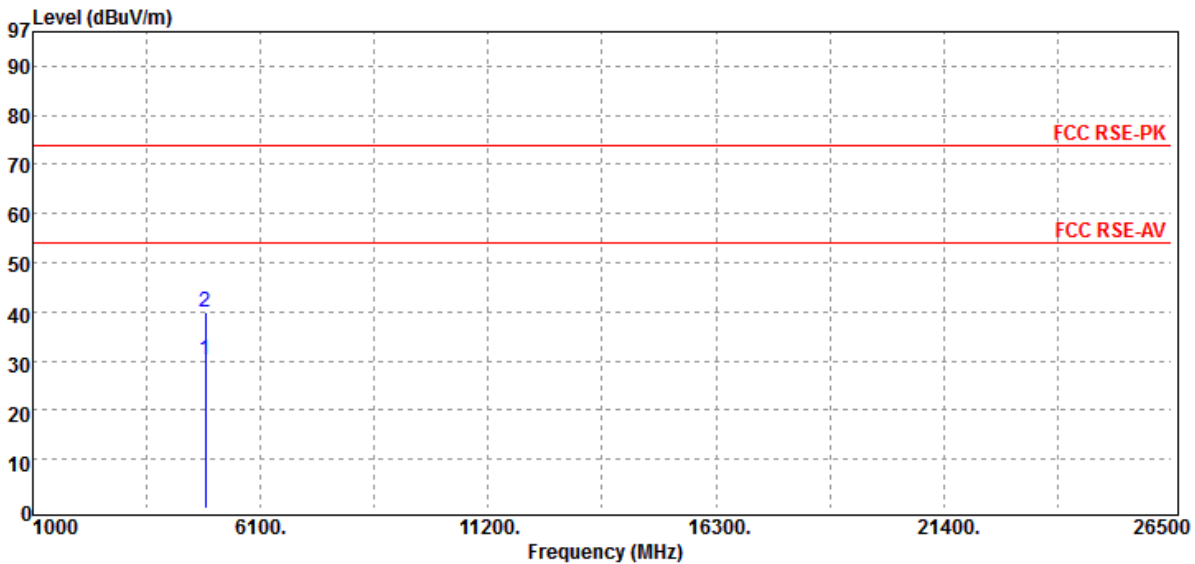
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
4824.00	H	Average	24.86	4.93	29.79	54.00	-24.21
4824.00	H	Peak	34.21	4.93	39.14	74.00	-34.86

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Operation Band	:802.11g	Test Date	:2017-09-07
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
4874.00	H	Average	25.14	5.13	30.27	54.00	-23.73
4874.00	H	Peak	34.89	5.13	40.02	74.00	-33.98

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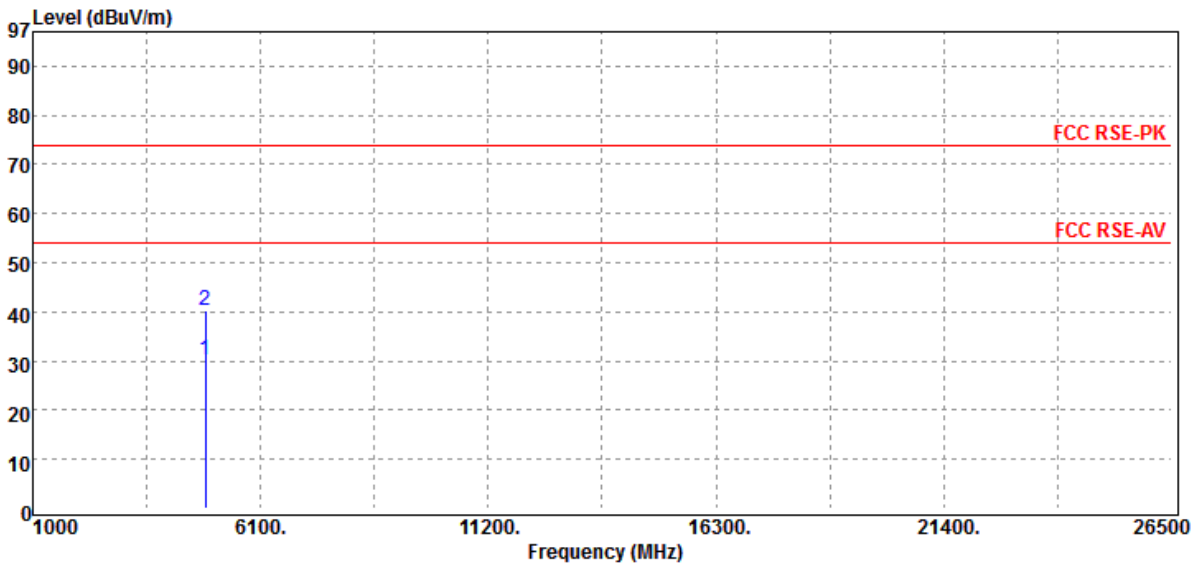
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Operation Band	:802.11g	Test Date	:2017-09-07
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
4874.00	H	Average	25.19	5.13	30.32	54.00	-23.68
4874.00	H	Peak	35.18	5.13	40.31	74.00	-33.69

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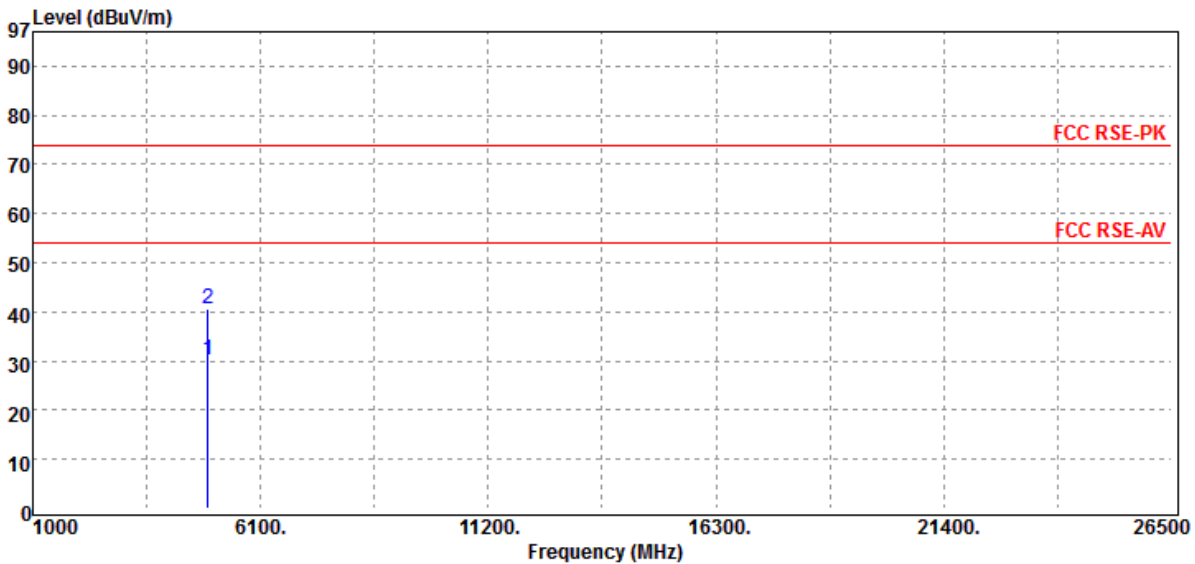
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Operation Band	:802.11g	Test Date	:2017-09-07
Fundamental Frequency	:2462 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4924.00	H	Average	25.04	5.25	30.29	54.00	-23.71
4924.00	H	Peak	35.43	5.25	40.68	74.00	-33.32

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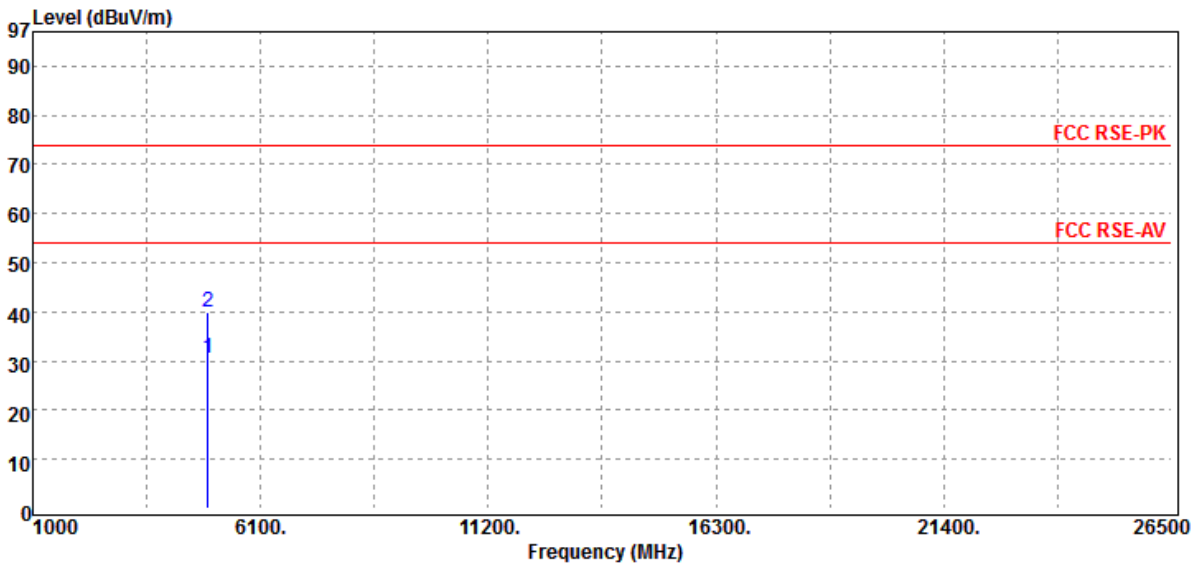
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Operation Band	:802.11g	Test Date	:2017-09-07
Fundamental Frequency	:2462 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4924.00	H	Average	25.21	5.25	30.46	54.00	-23.54
4924.00	H	Peak	34.86	5.25	40.11	74.00	-33.89

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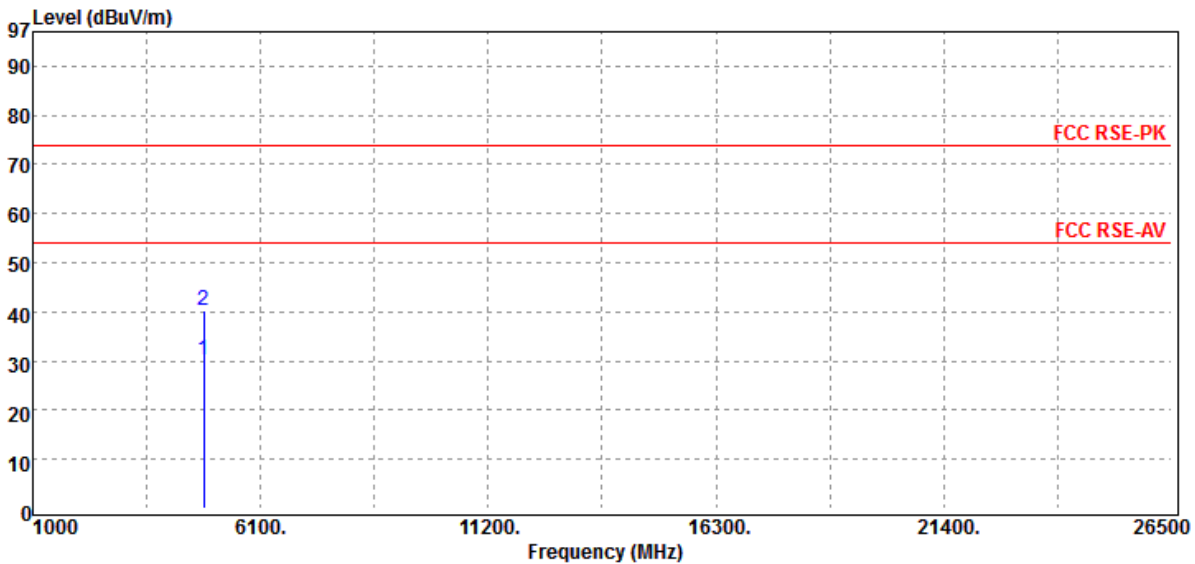
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Operation Band	:802.11n20	Test Date	:2017-09-07
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



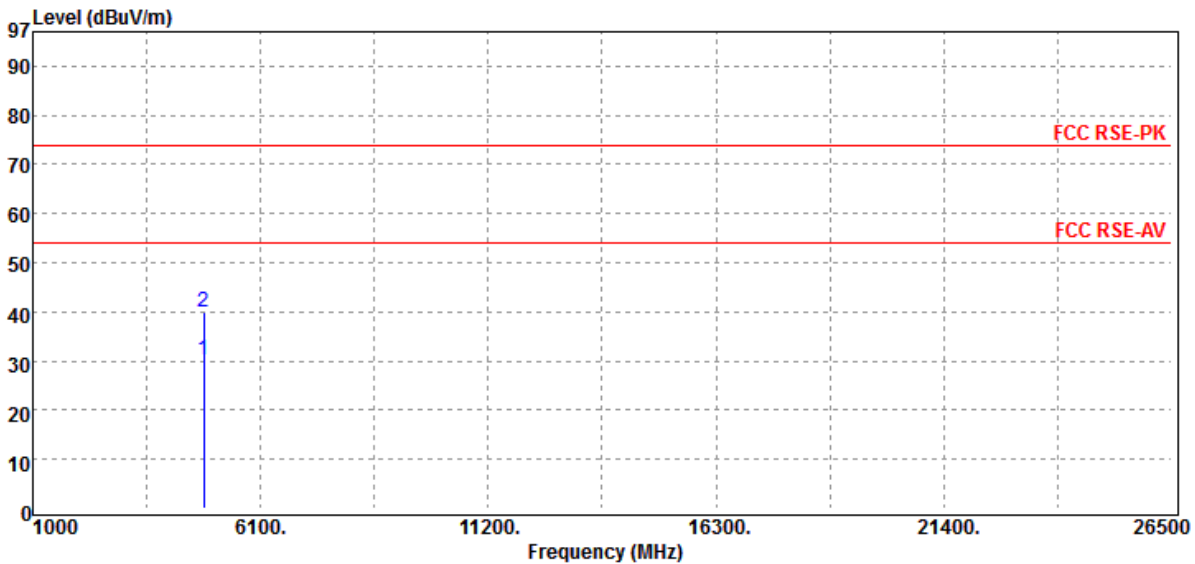
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4824.00	H	Average	25.19	4.93	30.12	54.00	-23.88
4824.00	H	Peak	35.30	4.93	40.23	74.00	-33.77

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Operation Band	:802.11n20	Test Date	:2017-09-07
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
4824.00	H	Average	25.26	4.93	30.19	54.00	-23.81
4824.00	H	Peak	34.92	4.93	39.85	74.00	-34.15

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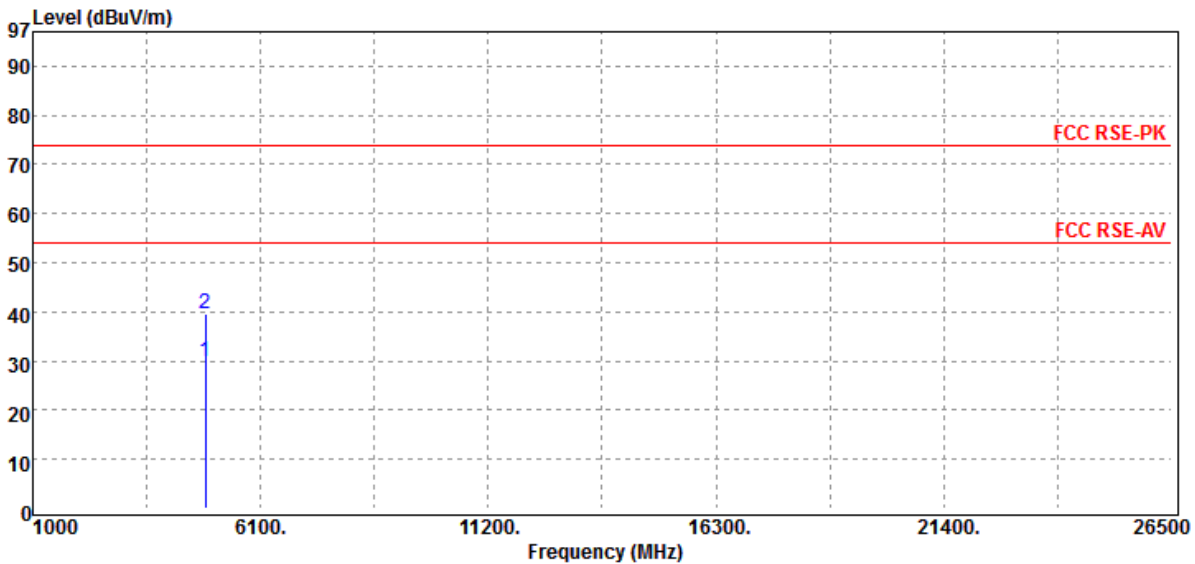
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Operation Band	:802.11n20	Test Date	:2017-09-07
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
4874.00	H	Average	24.74	5.13	29.87	54.00	-24.13
4874.00	H	Peak	34.31	5.13	39.44	74.00	-34.56

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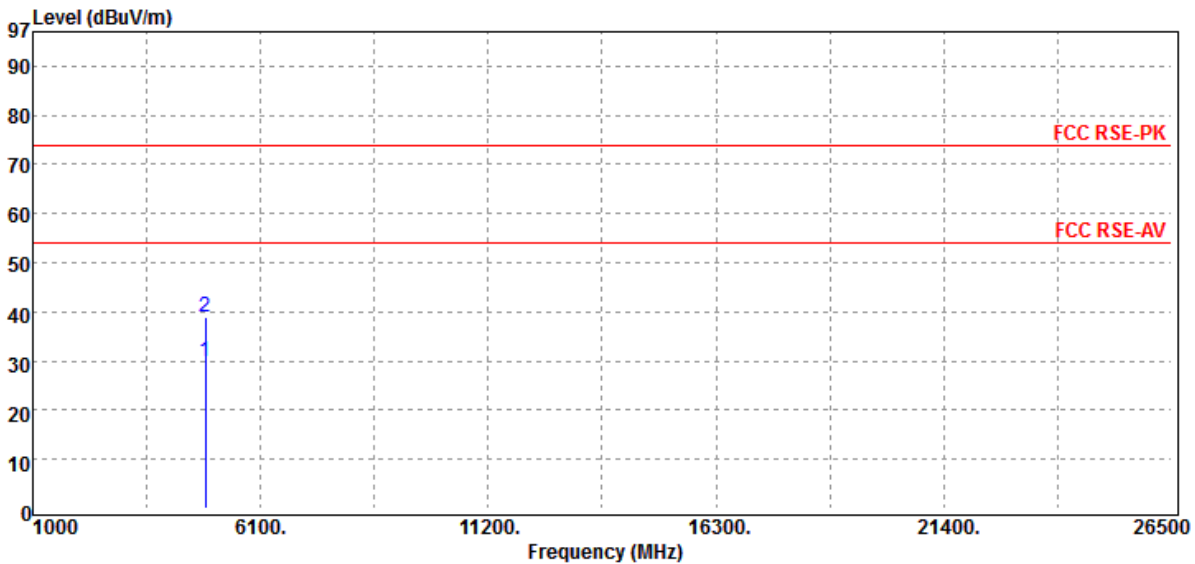
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Operation Band	:802.11n20	Test Date	:2017-09-07
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



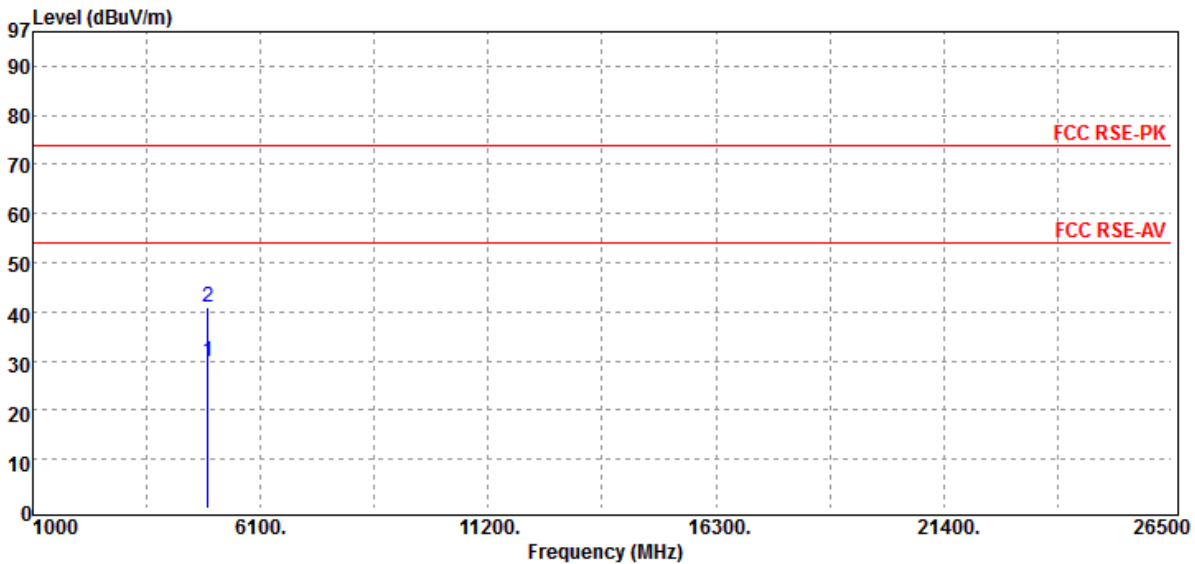
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
4874.00	H	Average	24.83	5.13	29.96	54.00	-24.04
4874.00	H	Peak	33.86	5.13	38.99	74.00	-35.01

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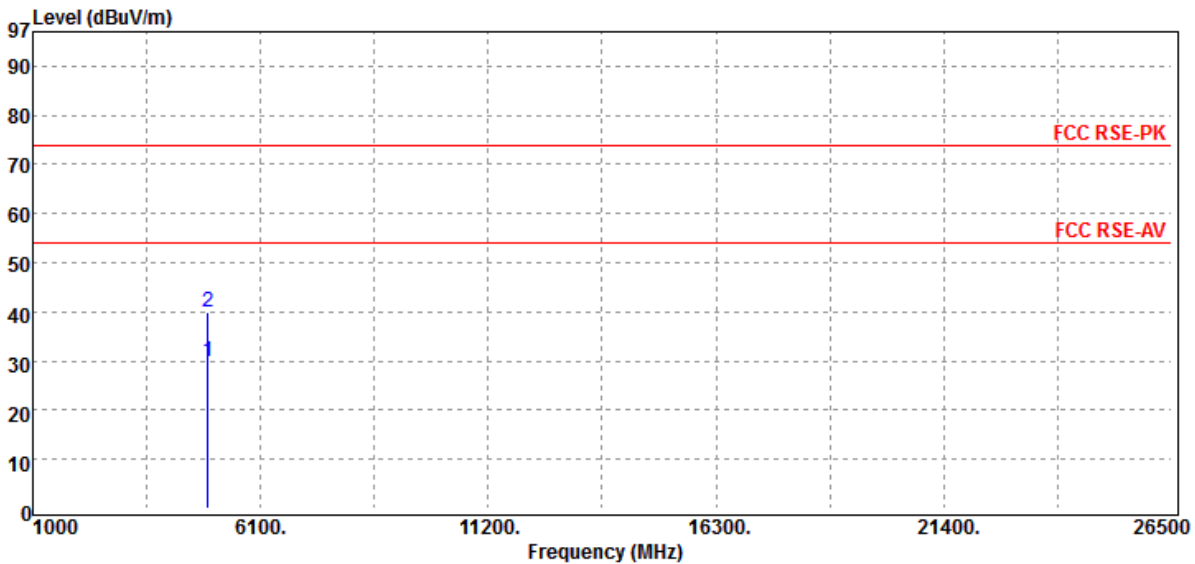
Operation Band	:802.11n20	Test Date	:2017-09-07
Fundamental Frequency	:2462 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
4924.00	H	Average	24.69	5.25	29.94	54.00	-24.06
4924.00	H	Peak	35.61	5.25	40.86	74.00	-33.14

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Operation Band	:802.11n20	Test Date	:2017-09-07
Fundamental Frequency	:2462 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



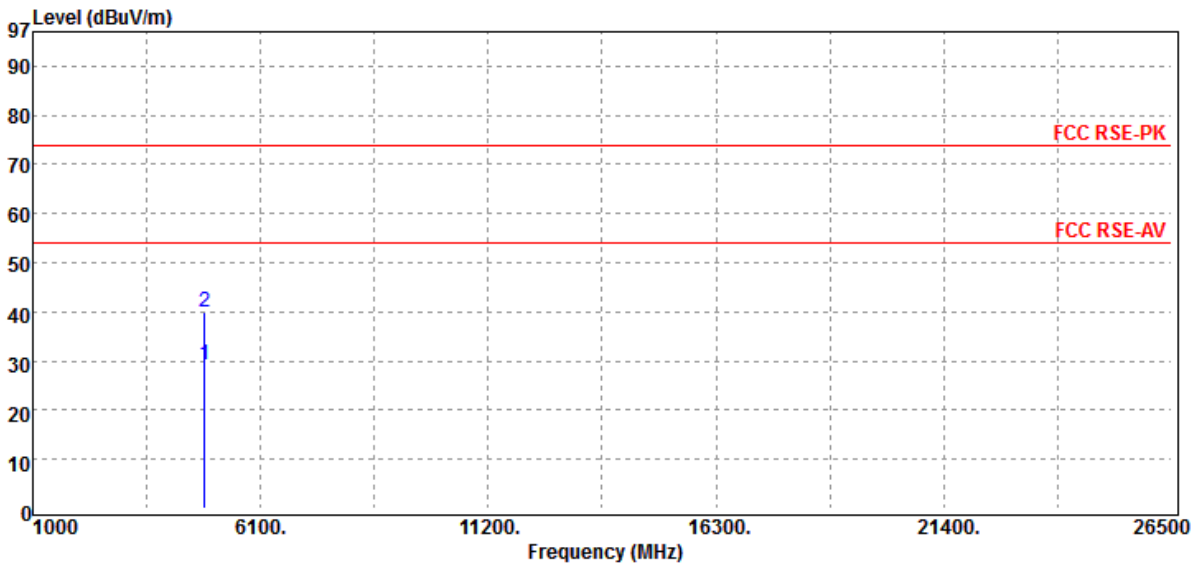
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
4924.00	H	Average	24.77	5.25	30.02	54.00	-23.98
4924.00	H	Peak	34.68	5.25	39.93	74.00	-34.07

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Operation Band	:802.11n40	Test Date	:2017-09-07
Fundamental Frequency	:2422 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4844.00	H	Average	24.38	4.97	29.35	54.00	-24.65
4844.00	H	Peak	35.00	4.97	39.97	74.00	-34.03

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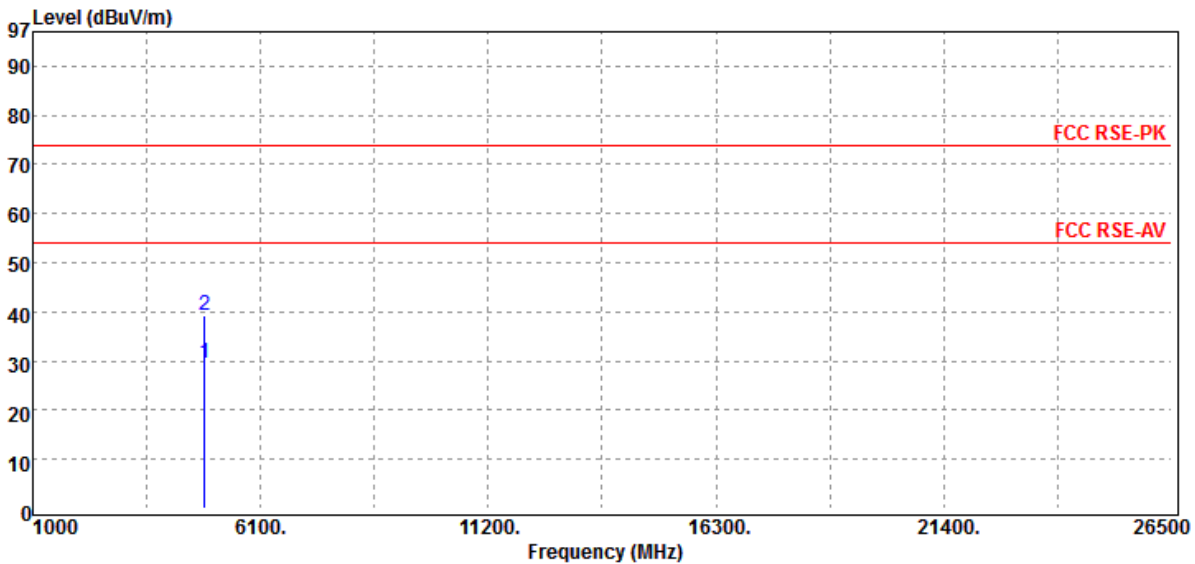
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Operation Band	:802.11n40	Test Date	:2017-09-07
Fundamental Frequency	:2422 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
4844.00	H	Average	24.66	4.97	29.63	54.00	-24.37
4844.00	H	Peak	34.35	4.97	39.32	74.00	-34.68

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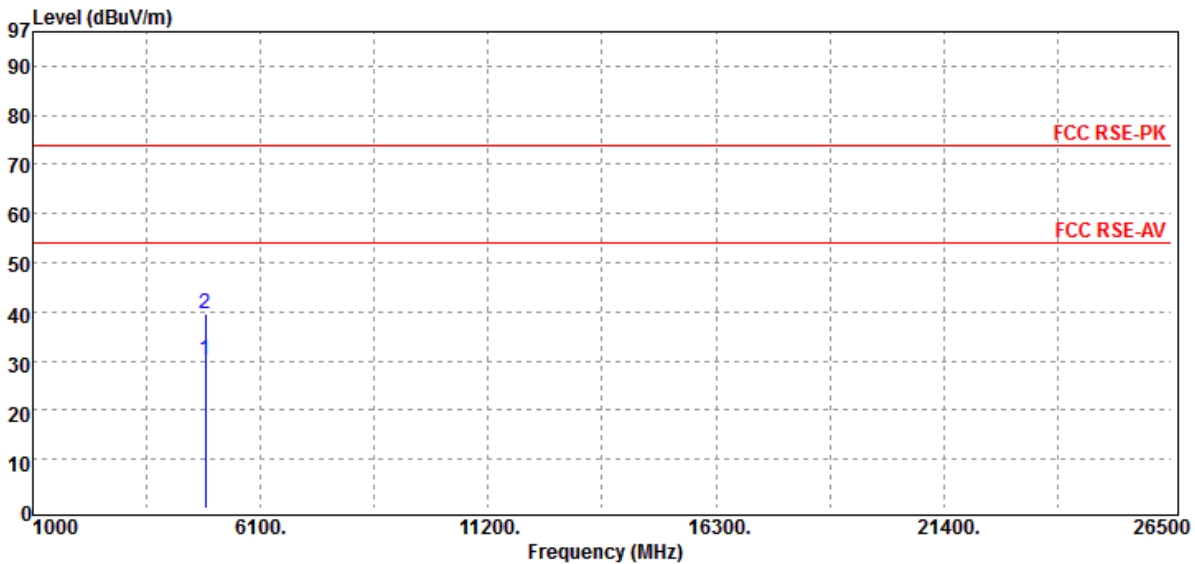
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Operation Band	:802.11n40	Test Date	:2017-09-07
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



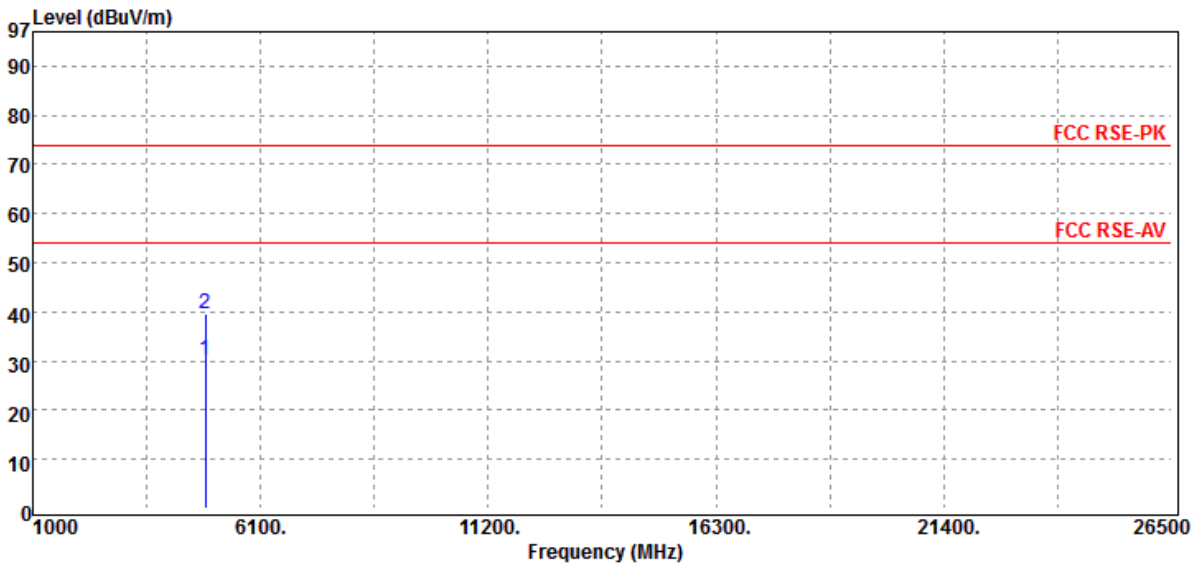
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
4874.00	H	Average	25.01	5.13	30.14	54.00	-23.86
4874.00	H	Peak	34.38	5.13	39.51	74.00	-34.49

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Operation Band	:802.11n40	Test Date	:2017-09-07
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	Margin
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	dB
4874.00	H	Average	25.11	5.13	30.24	54.00	-23.76
4874.00	H	Peak	34.62	5.13	39.75	74.00	-34.25

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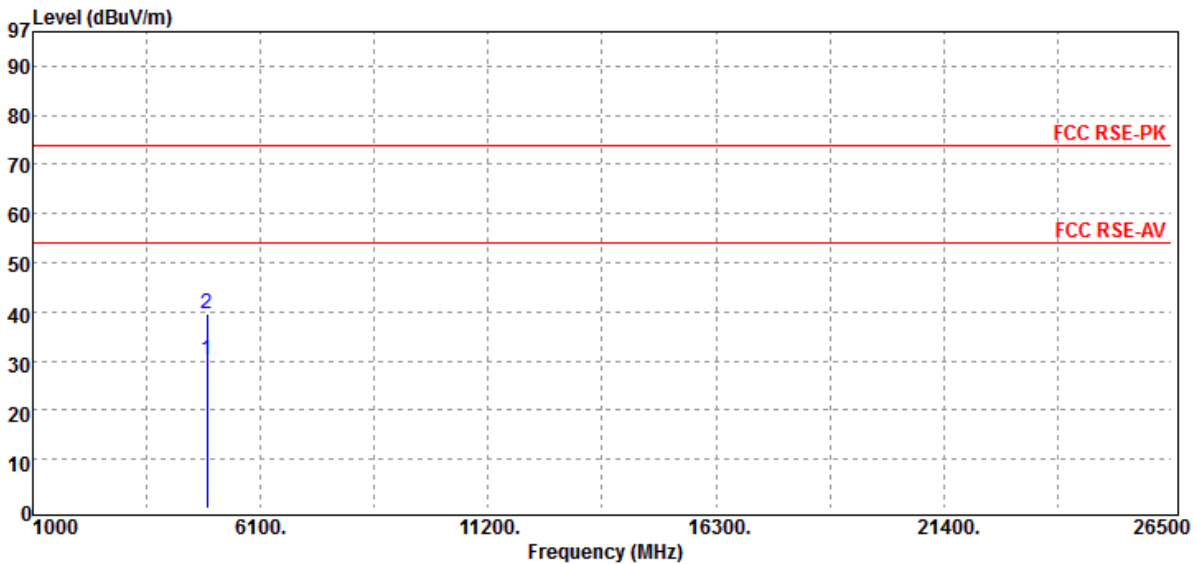
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Operation Band	:802.11n40	Test Date	:2017-09-07
Fundamental Frequency	:2452 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
4904.00	H	Average	24.87	5.24	30.11	54.00	-23.89
4904.00	H	Peak	34.44	5.24	39.68	74.00	-34.32

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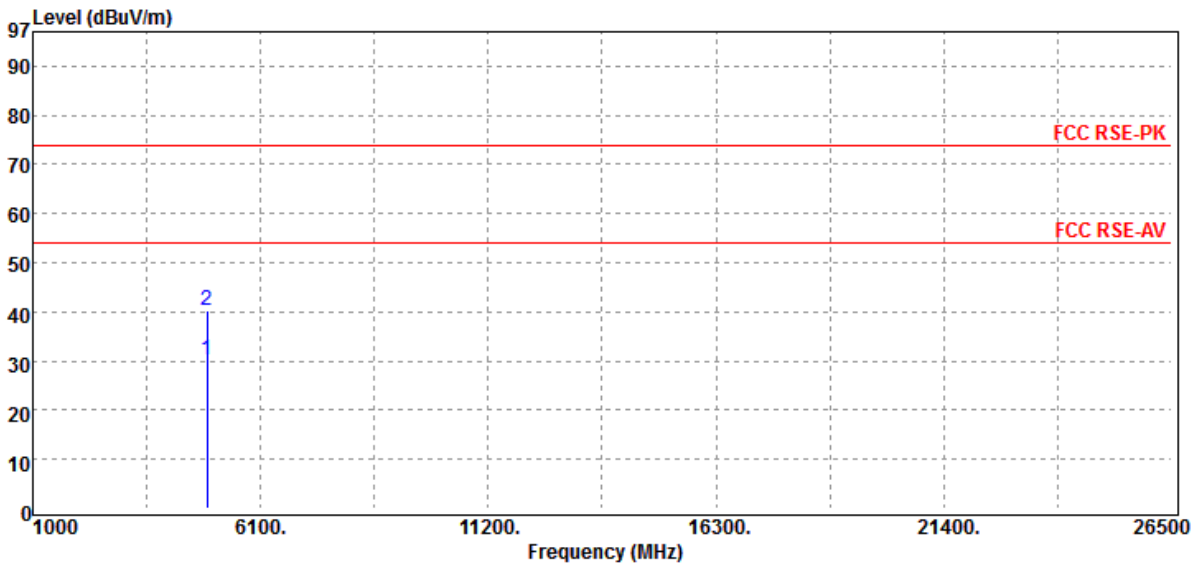
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Operation Band	:802.11n40	Test Date	:2017-09-07
Fundamental Frequency	:2452 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4904.00	H	Average	24.94	5.24	30.18	54.00	-23.82
4904.00	H	Peak	35.12	5.24	40.36	74.00	-33.64

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## 7 ANTENNA REQUIREMENT

### 7.1 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.

### 7.2 Antenna Connected Construction

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

*~ End of Report ~*

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