

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

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

Product Name: SX-SDMAC2

Brand Name: silex technology, Inc.

Marketing Name: Wireless Embedded Module

Model No.: SX-SDMAC2

Model Difference: N/A

Report Number: T190321W03-RP1

FCC ID: N6C-SDMAC2

FCC Rule Part: §15.247, Cat: DTS

Issue Date: Jun. 19, 2019

Date of Test: Mar. 21, 2019 ~ May 29, 2019

Date of EUT Received: Mar. 21, 2019

Issued by: Compliance Certification Services Inc. Wugu Lab.
No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan.
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The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report. The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Tested By:


Jerry Lu / Sr. Engineer

Approved By:


Kevin Tsai / Deputy Manager



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Revision History

Report Number	Revision	Description	Effectuated Page	Issue Date	Revised By
T190321W03-RP1	Rev.00	Initial creation of document	All	Jun. 19, 2019	Violetta Tang

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	SX-SDMAC2
Brand Name:	silex technology, Inc.
Marketing Name:	Wireless Embedded Module
Model No.:	SX-SDMAC2
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
Power Supply:	3.3Vdc

WLAN 802.11	Frequency Range	Channels	Rated Power (dBm)	Modulation Technology
b	2412-2462	11	16.40 (2TX)	DSSS
g			25.96 (2TX)	OFDM
n_HT20			26.13 (MIMO)	
n_HT40	2422-2452	7	25.05 (MIMO)	
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 – 300.0Mbps			

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1.2 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PCB	Unictron	H2B1PC1A1C (AA258)	2.4GHz	2.9	
PCB	Unictron	H2B1PD1A1C (AA222)	2.4GHz	2.8	
PCB	molex	146153	2.4GHz	3.25	V
Dipole	Sansei Denki	ANTDC-081A0/B0	2.4GHz	2	
Dipole	Sansei Denki	ANTDP-027A0	2.4GHz	0.8	
Dipole	Sansei Denki	ANTDP-039A0	2.4GHz	0.8	
Dipole	JOYMAX	IWF-145XMPXX	2.4GHz	4	V

Note: Pre-scanned was done on the above 7 antennas, the PCB (146153) & the Dipole (IWF-145XMPXX) results higher emission at 2.4GHz. Therefore, the completed set of measurement was done on both antennas to be presented on this test report.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas. Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

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

1.4 Test Facility

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,
Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

1.7 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 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.

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.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

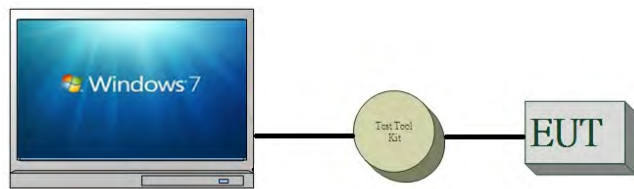


Fig 2-3 Conduction (AC Power Line) Emission

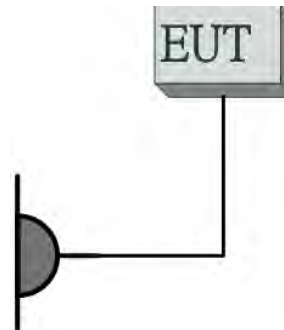


Fig 2-2 Conducted (Antenna Port) Configuration

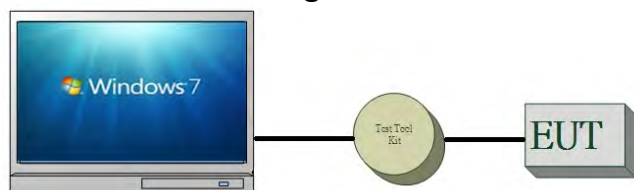


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	N/A	N/A	N/A	N/A	N/A
3.	Test Tool 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)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB Emission Bandwidth	Compliant
§15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b, 802.11g and 802.11n HT20

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

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. The given UE is pre-scanned among below modes.

Modulation	Transmission Chain		Multiple Transmission Spatial
☒ 802.11 b	☒ Ch0	☒ Ch1	☒ 2TX
☒ 802.11 g	☒ Ch0	☒ Ch1	☒ 2TX
☒ 802.11 n	☒ Ch0	☒ Ch1	☒ MIMO

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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AC POWER LINE CONDUCTED EMISSION TEST:

Test Condition	AC Power line conducted emission for line and neutral
Worst Case	Operation in normal mode

RADIATED EMISSION TEST:

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
RADIATED EMISSION TEST (BELOW 1 GHz)					
802.11g	1 to 11	6	OFDM	6	2TX
802.11n (HT40)	3 to 9	6	OFDM	MCS 8	MIMO
RADIATED EMISSION TEST (ABOVE 1 GHz)					
802.11b	1 to 11	1,6,11	DSSS	1	2TX
802.11g	1 to 11	1,6,11	OFDM	6	2TX
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 H position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	2TX
802.11g	1 to 11	1,6,11	OFDM	6	2TX
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

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575 dB
Peak Output Power	+/- 1.922 dB
6dB Bandwidth	+/- 61.248 Hz
100 kHz Bandwidth of Frequency Band Edges	+/- 1.922 dB
Peak Power Density	+/- 2.004 dB
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12 dB
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68 dB
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18 dB
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47 dB
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81 dB
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87 dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.
3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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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

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
CABLE	EMCI	CFD300-NL	CERF	06/29/2018	06/28/2019
EMI Test Receiver	R&S	ESCI	100064	07/24/2018	07/23/2019
LISN	SCHWARZBECK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

6.3 EUT Setup

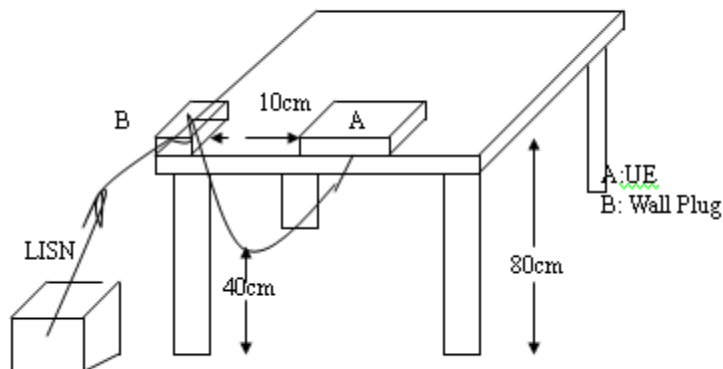
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

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

6.6 Measurement Result

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

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

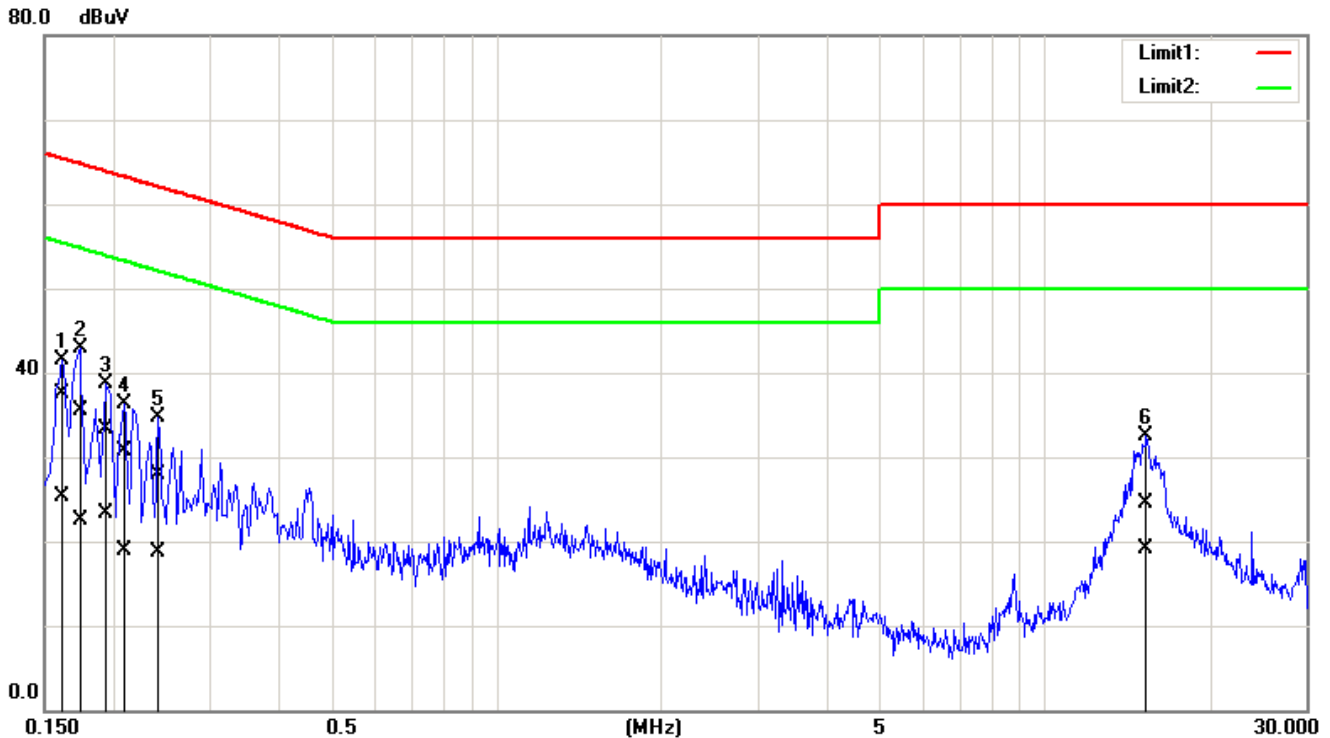
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation	Date:	2019/5/24
Line:	L1	Temp.(°C)/Hum.(%):	23.8(°C)/59%
Test Voltage:	AC 120V/60Hz	Test By:	Peter



No.	Fre- quency (MHz)	Qua- siPeak reading (dBuV)	Average reading (dBuV)	Cor- rection factor (dB)	Qua- siPeak result (dBuV)	Average result (dBuV)	Qua- siPeak limit (dBuV)	Average limit (dBuV)	Qua- siPeak margin (dB)	Aver- age margin (dB)	Re- mark
1*	0.1620	37.34	25.06	0.16	37.50	25.22	65.36	55.36	-27.86	-30.14	Pass
2	0.1740	35.42	22.30	0.16	35.58	22.46	64.76	54.77	-29.18	-32.31	Pass
3	0.1940	33.10	23.10	0.15	33.25	23.25	63.86	53.86	-30.61	-30.61	Pass
4	0.2100	30.62	18.80	0.15	30.77	18.95	63.20	53.21	-32.43	-34.26	Pass
5	0.2420	27.74	18.51	0.15	27.89	18.66	62.02	52.03	-34.13	-33.37	Pass
6	15.3460	24.01	18.55	0.59	24.60	19.14	60.00	50.00	-35.40	-30.86	Pass

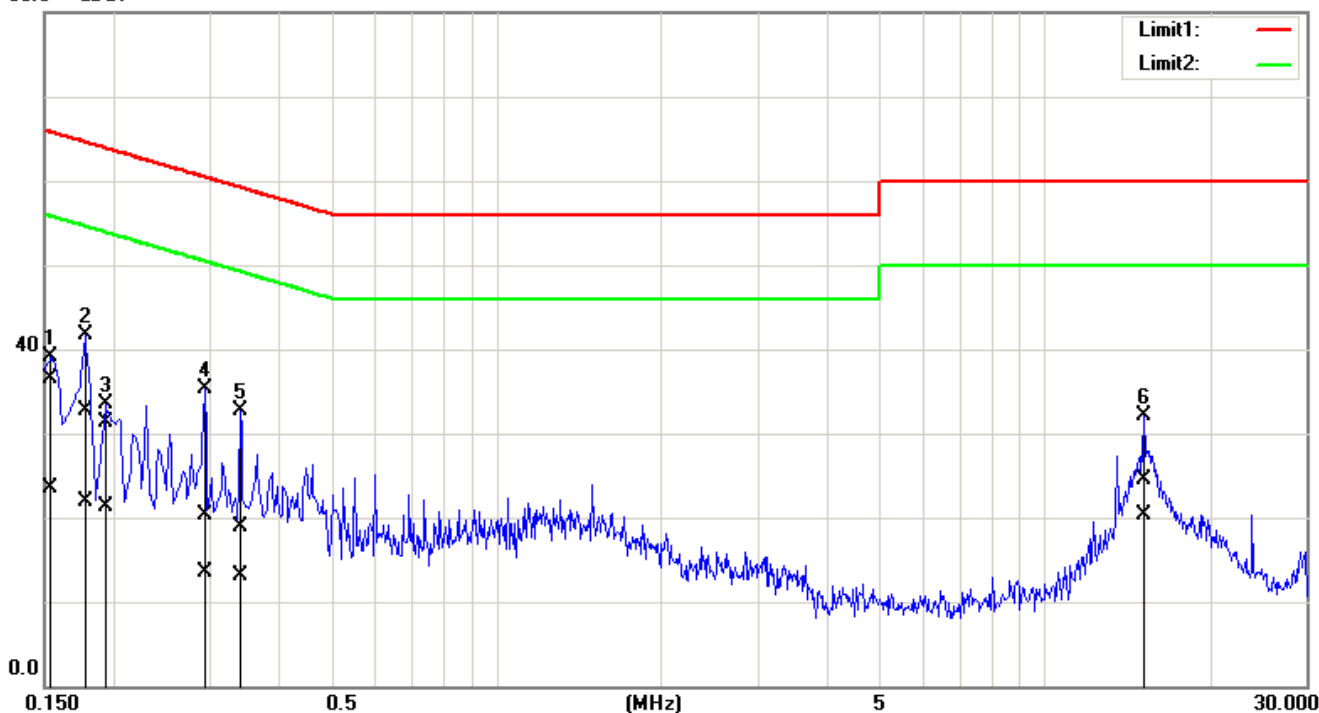
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Description:	Operation	Date:	2019/5/24
Line:	N	Temp.(°C)/Hum.(%):	23.8(°C)/59%
Test Voltage:	AC 120V/60Hz	Test By:	Peter

80.0 dBuV



No.	Fre- quency	Qua- siPeak reading	Average reading	Cor- rection factor	Qua- siPeak result	Average result	Qua- siPeak limit	Average limit	Qua- siPeak margin	Aver- age margin	Re- mark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1539	36.32	23.38	0.10	36.42	23.48	65.78	55.79	-29.36	-32.31	Pass
2	0.1780	32.60	21.78	0.10	32.70	21.88	64.57	54.58	-31.87	-32.70	Pass
3	0.1940	31.28	21.13	0.10	31.38	21.23	63.86	53.86	-32.48	-32.63	Pass
4	0.2940	20.11	13.45	0.10	20.21	13.55	60.41	50.41	-40.20	-36.86	Pass
5	0.3420	18.71	13.02	0.11	18.82	13.13	59.15	49.15	-40.33	-36.02	Pass
6	15.1460	23.98	19.83	0.47	24.45	20.30	60.00	50.00	-35.55	-29.70	Pass

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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)	1/T (kHz)	VBW setting (kHz)
802.11b	99.14	0.04	0.08	0.01
802.11g	95.12	0.22	0.48	1.00
802.11n_20	94.31	0.25	0.52	1.00
802.11n_40	84.87	0.71	1.05	2.00

$$b = 99.14\%, g = 95.12\%, n_{ht_20} = 94.31\%, n_{ht_40} = 84.87\%$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9914) = 0.04$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9512) = 0.22$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9431) = 0.25$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8487) = 0.71$$

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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

Duty Cycle_802.11b_20MHz_Chain0_2412MHz



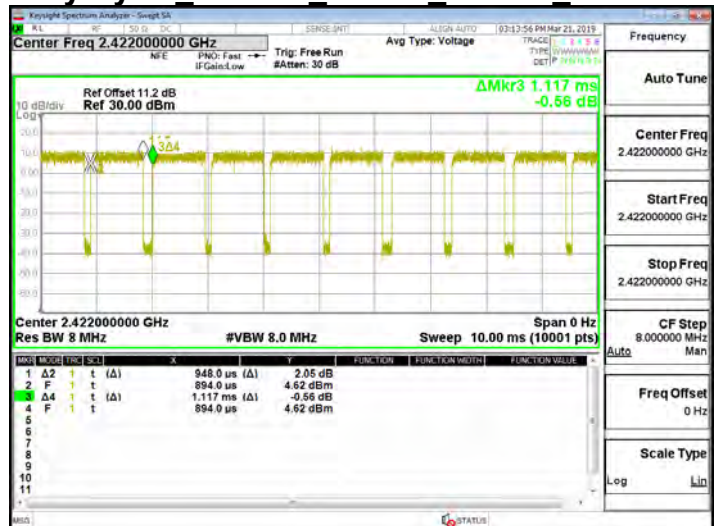
Duty Cycle_802.11n_20MHz_Chain0_2412MHz



Duty Cycle_802.11g_20MHz_Chain0_2412MHz



Duty Cycle_802.11n_40MHz_Chain0_2412MHz



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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.

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.

Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain

$$= 10 \log[(10G1/20 + 10G2/20 + \dots + 10GN/20)^2 / NANT] \text{ dBi}$$

[Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

The antenna gain is greater than 6 dBi, therefore the limit needs to be reduced as section 8.5.

8.2 Measurement Equipment Used

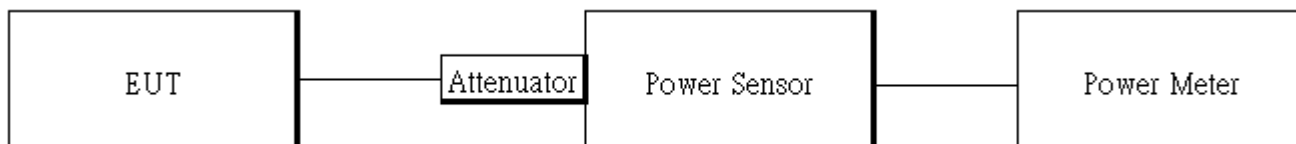
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1242004	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207365	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207368	10/24/2018	10/23/2019
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	3	02/26/2019	02/25/2020

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8.3 Test Set-up



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 Chain1iliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

8.5 Measurement Result

802.11b_2TX							
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	1	13.28	13.27	16.29	29.74	PASS
6	2437	1	13.21	13.54	16.39	29.74	PASS
11	2462	1	13.52	13.26	16.40	29.74	PASS
802.11b_2TX							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	1	10.46	10.14	13.35	29.74	PASS
6	2437	1	10.32	10.19	13.30	29.74	PASS
11	2462	1	10.49	10.39	13.49	29.74	PASS

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802.11g_2TX							
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	6	22.87	23.02	25.96	29.74	PASS
6	2437	6	22.81	22.75	25.79	29.74	PASS
11	2462	6	22.57	22.51	25.55	29.74	PASS
802.11g_2TX							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	6	14.79	14.68	17.96	29.74	PASS
6	2437	6	17.23	16.94	20.32	29.74	PASS
11	2462	6	12.05	12.14	15.32	29.74	PASS
802.11n_HT20M MIMO							
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	MCS8	23.04	23.19	26.13	29.74	PASS
6	2437	MCS8	22.85	22.93	25.90	29.74	PASS
11	2462	MCS8	22.76	22.90	25.84	29.74	PASS
802.11n_HT20M MIMO							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	MCS8	13.67	13.72	16.96	29.74	PASS
6	2437	MCS8	17.10	16.87	20.25	29.74	PASS
11	2462	MCS8	12.76	12.49	15.89	29.74	PASS

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802.11n_HT40M MIMO							
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
3	2422	MCS8	22.14	21.89	25.03	29.74	PASS
6	2437	MCS8	22.17	21.91	25.05	29.74	PASS
9	2452	MCS8	22.06	21.77	24.93	29.74	PASS
802.11n_HT40M MIMO							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
3	2422	MCS8	10.67	10.43	14.27	29.74	PASS
6	2437	MCS8	13.65	13.47	17.28	29.74	PASS
9	2452	MCS8	8.55	8.73	12.36	29.74	PASS

Note

Cable Loss 12.50 dB

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

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9 6DB BANDWIDTH MEASUREMENT

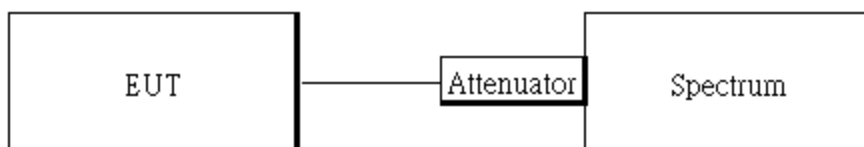
9.1 Standard Applicable

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

9.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	3	02/26/2019	02/25/2020

9.3 Test Set-up



9.4 Measurement Procedure

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

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9.5 Measurement Result

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8088.00	> 500	PASS
2437	8091.00	> 500	PASS
2462	8091.00	> 500	PASS

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8097.00	> 500	PASS
2437	8098.00	> 500	PASS
2462	8100.00	> 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16320.00	> 500	PASS
2437	16070.00	> 500	PASS
2462	16330.00	> 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15830.00	> 500	PASS
2437	15750.00	> 500	PASS
2462	16060.00	> 500	PASS

802.11_n_HT20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17180.00	> 500	PASS
2437	17170.00	> 500	PASS
2462	17140.00	> 500	PASS

802.11_n_HT20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16550.00	> 500	PASS
2437	16320.00	> 500	PASS
2462	16340.00	> 500	PASS

802.11_n_HT40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35750.00	> 500	PASS
2437	35760.00	> 500	PASS
2452	35760.00	> 500	PASS

802.11_n_HT40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35350.00	> 500	PASS
2437	35300.00	> 500	PASS
2452	35360.00	> 500	PASS

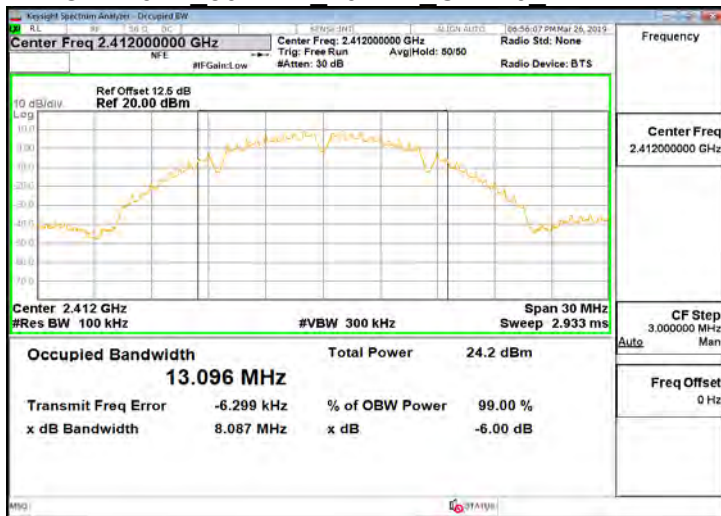
*Refer to next page for plots

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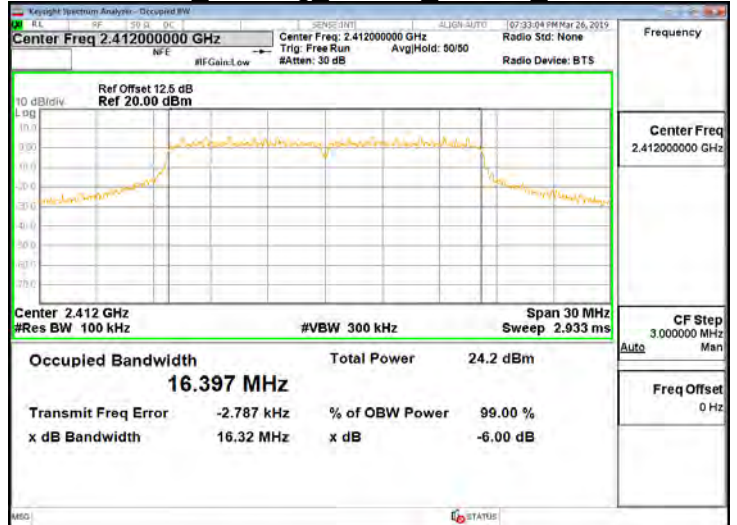
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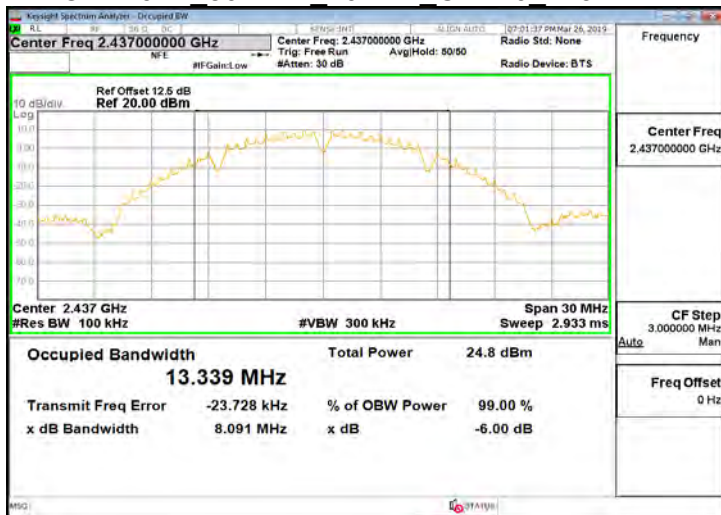
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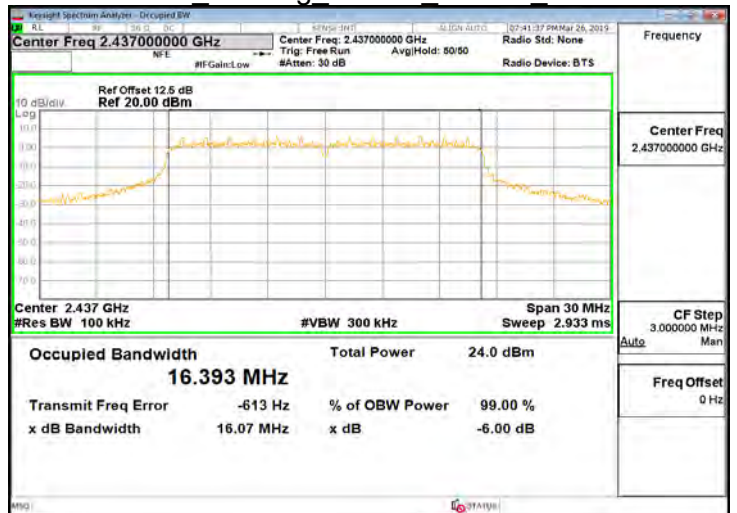
OBW 6dB 802.11g 20MHz Chain0 2412MHz



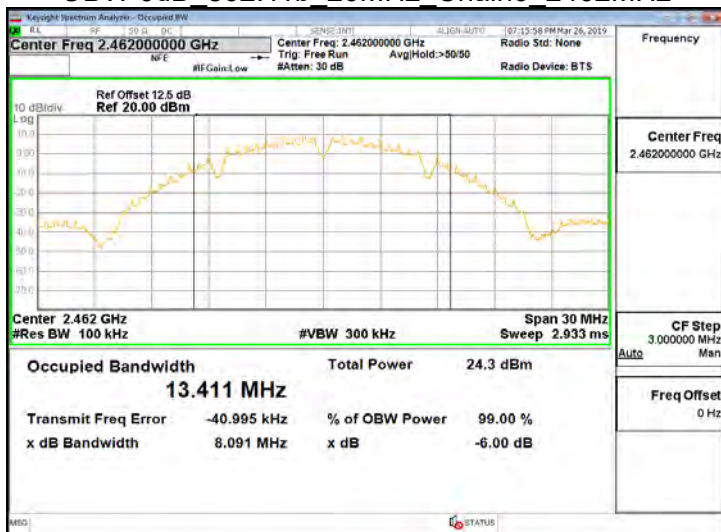
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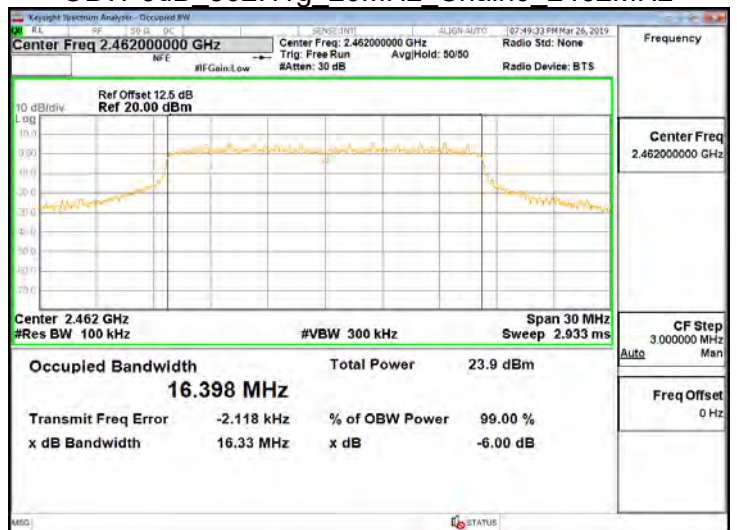
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OBW 6dB 802.11b 20MHz Chain0 2462MHz



OBW 6dB 802.11g 20MHz Chain0 2462MHz

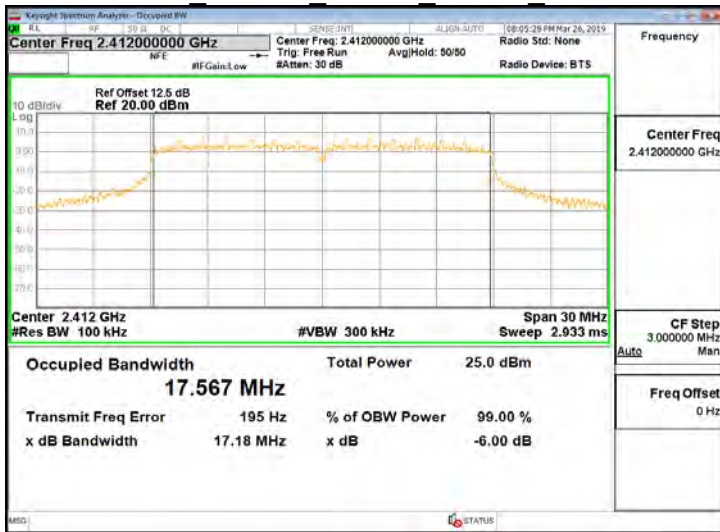


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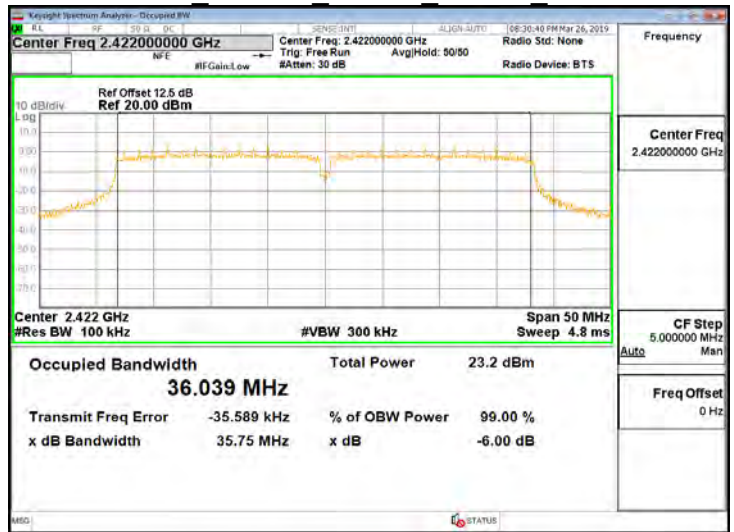
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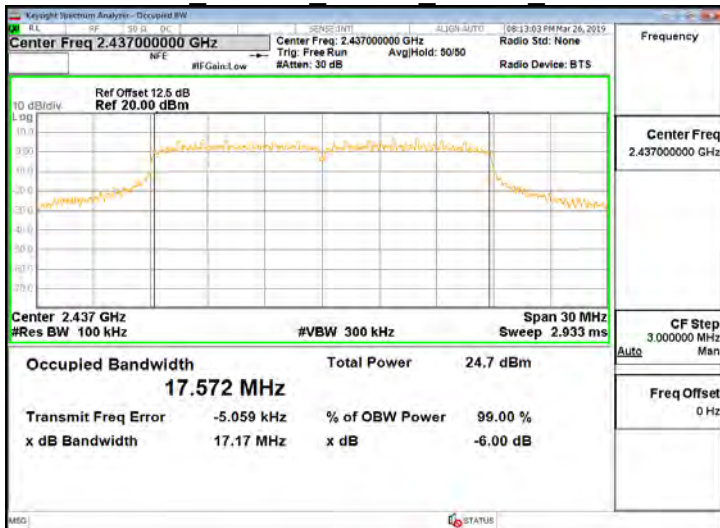
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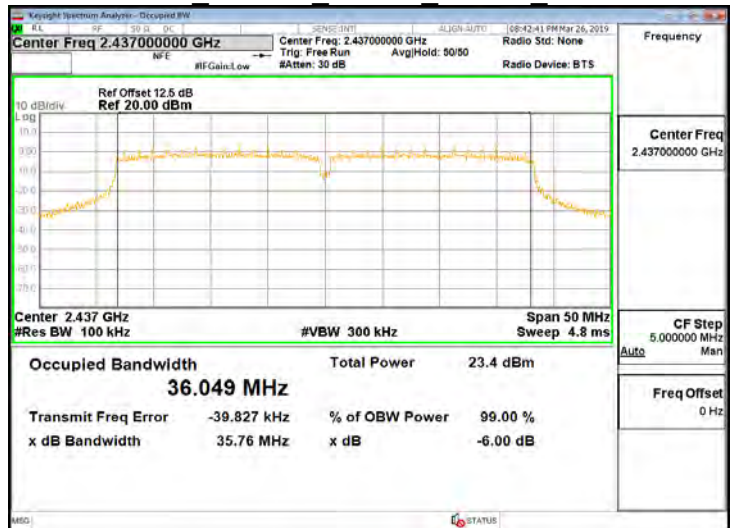
OBW 6dB 802.11n 40MHz Chain0 2422MHz



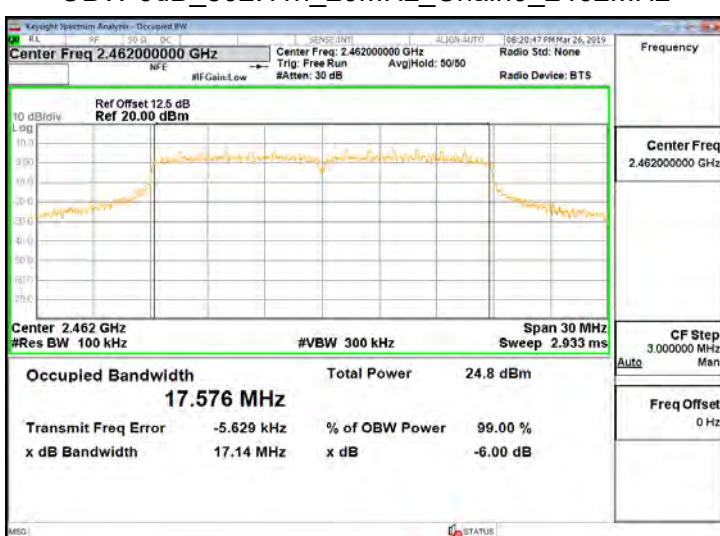
OBW 6dB 802.11n 20MHz Chain0 2437MHz



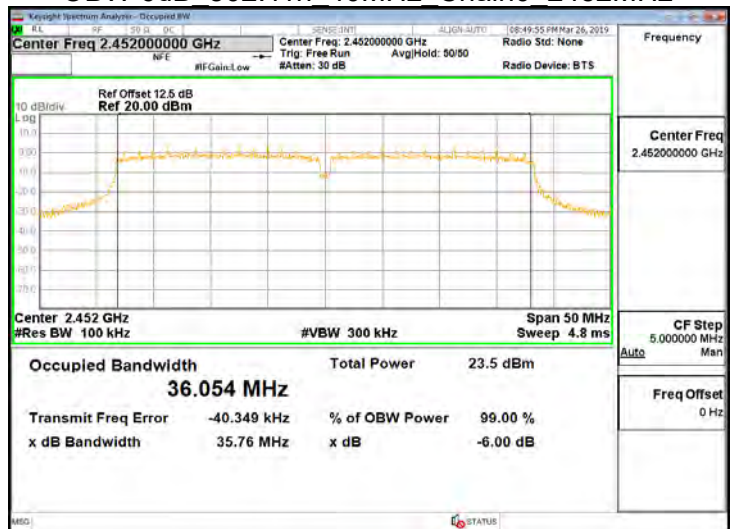
OBW 6dB 802.11n 40MHz Chain0 2437MHz



OBW 6dB_802.11n_20MHz_Chain0_2462MHz



OBW 6dB 802.11n 40MHz Chain0 2452MHz

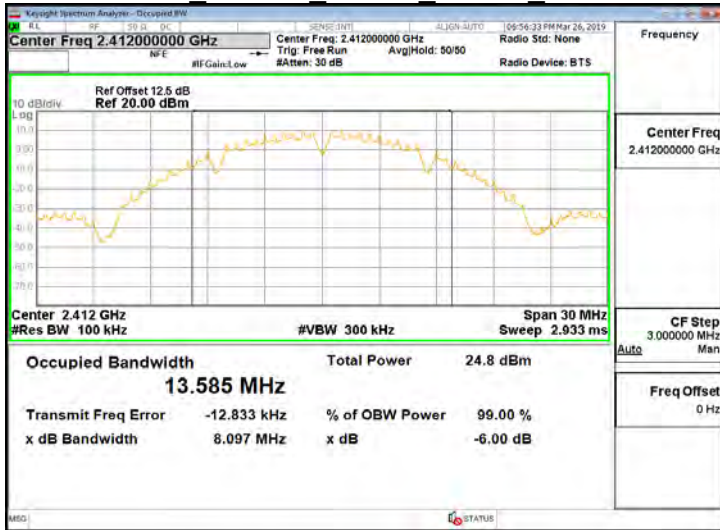


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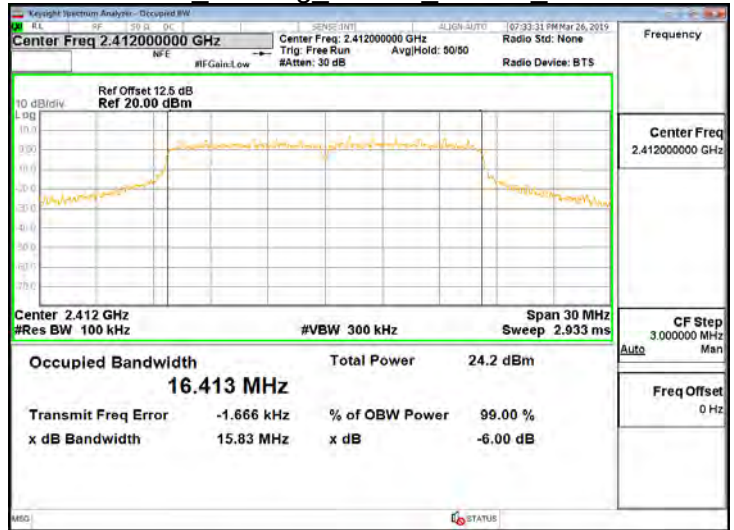
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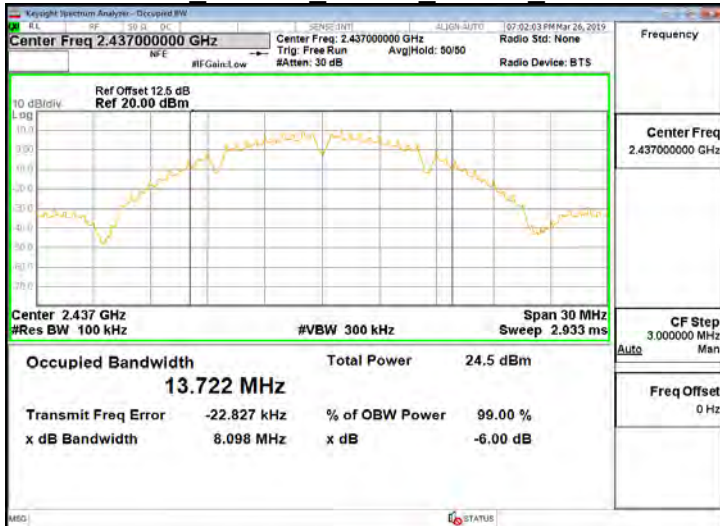
OBW 6dB 802.11b 20MHz Chain1 2412MHz



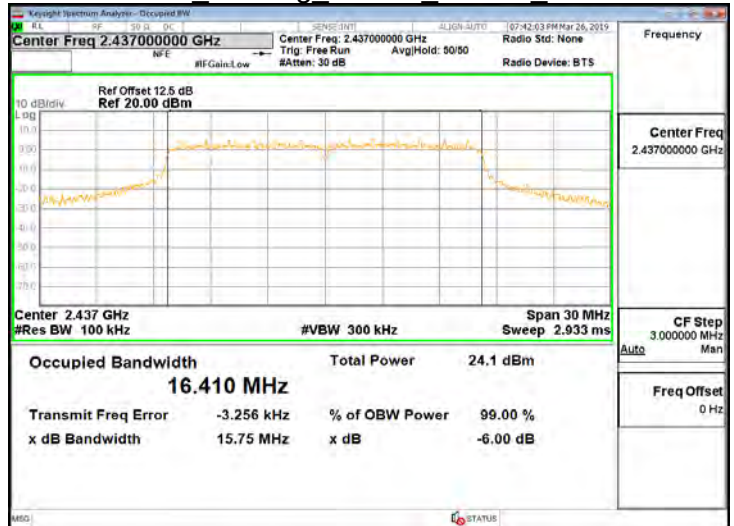
OBW 6dB 802.11g 20MHz Chain1 2412MHz



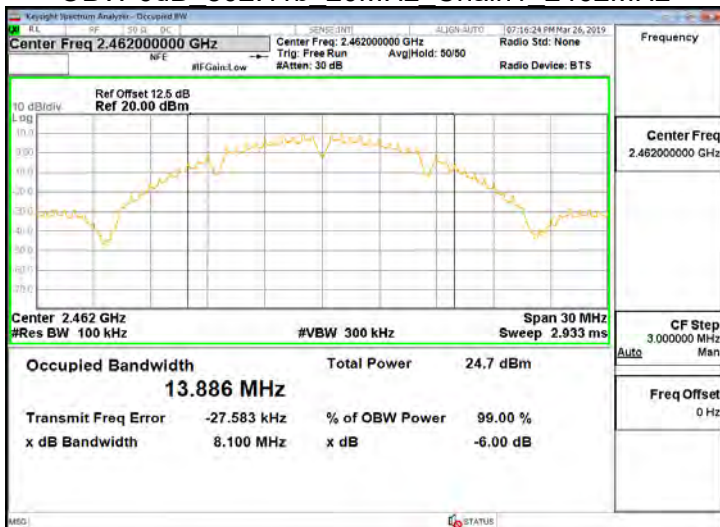
OBW 6dB 802.11b 20MHz Chain1 2437MHz



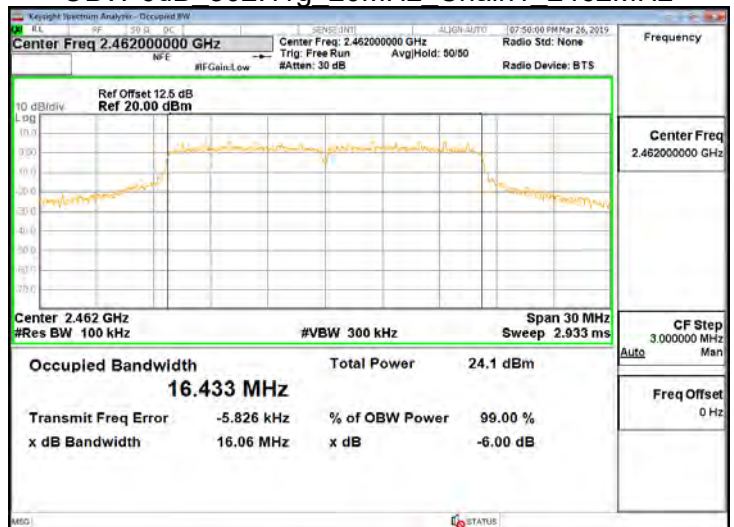
OBW 6dB 802.11g 20MHz Chain1 2437MHz



OBW 6dB 802.11b 20MHz Chain1 2462MHz



OBW 6dB 802.11g 20MHz Chain1 2462MHz

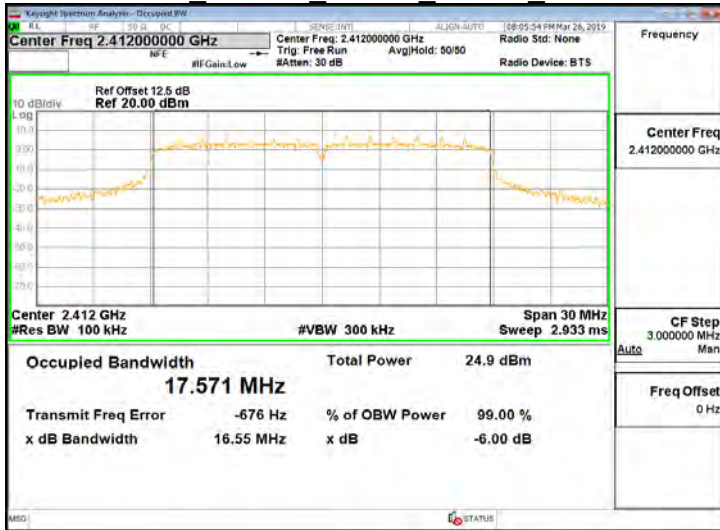


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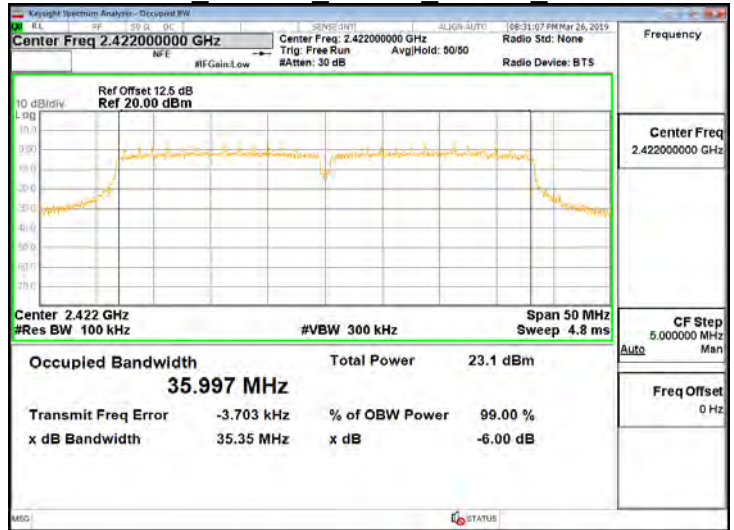
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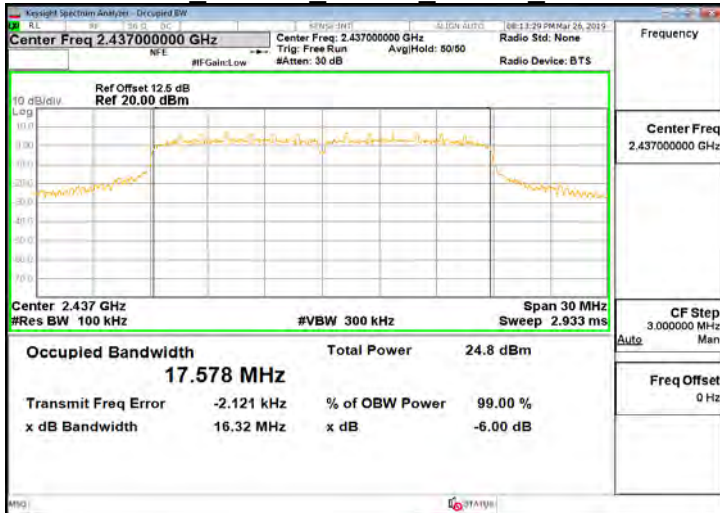
OBW 6dB 802.11n 20MHz Chain1 2412MHz



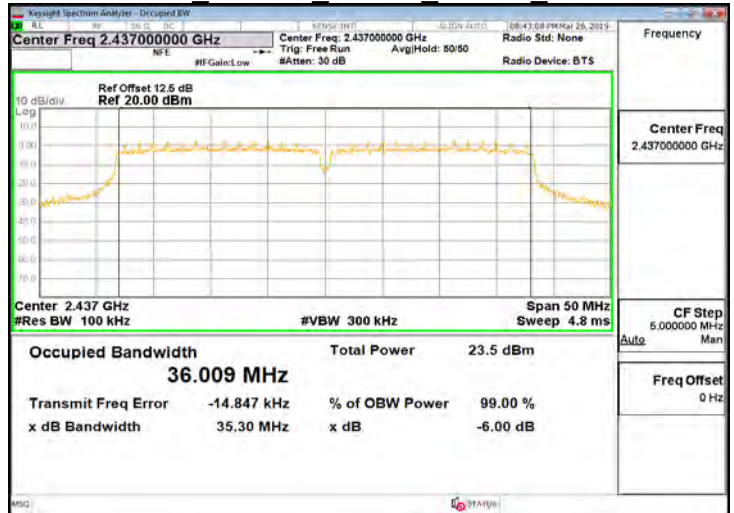
OBW 6dB 802.11n 40MHz Chain1 2422MHz



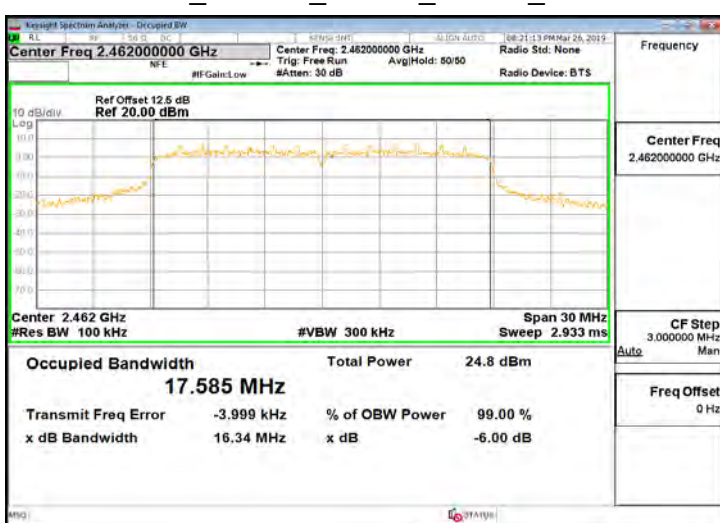
OBW 6dB 802.11n 20MHz Chain1 2437MHz



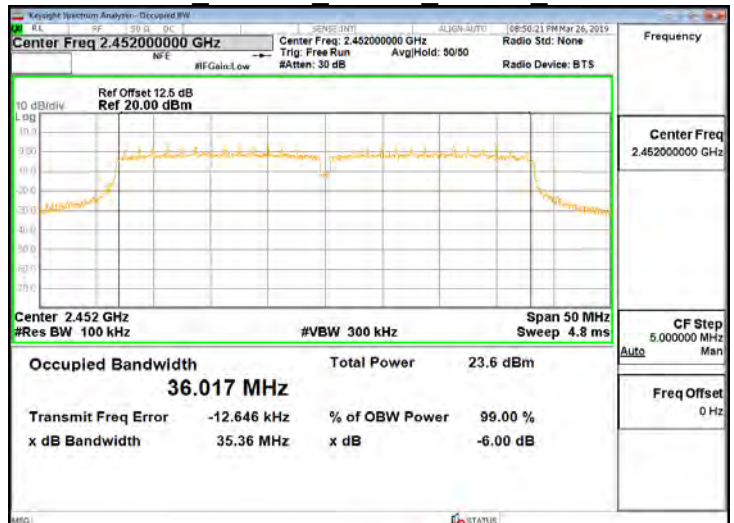
OBW 6dB 802.11n 40MHz Chain1 2437MHz



OBW 6dB 802.11n 20MHz Chain1 2462MHz



OBW 6dB 802.11n 40MHz Chain1 2452MHz



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

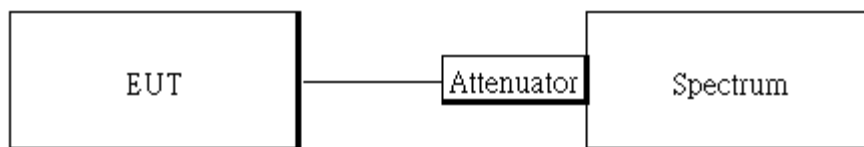
10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	3	02/26/2019	02/25/2020

10.3 Test SET-UP



10.4 Measurement Procedure

Reference Level of Emission Calculation:

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

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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

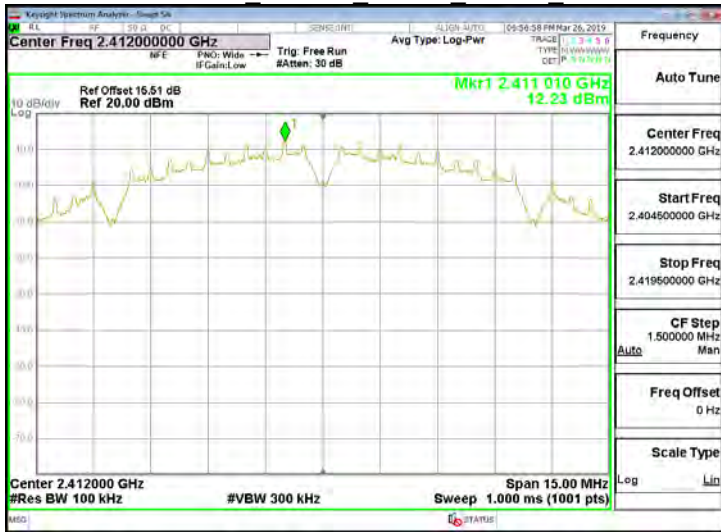
Reference Level of Limit 802.11b mode			Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	12.23	-7.77	2412	9.81	-10.19
2437	12.63	-7.37	2437	9.63	-10.37
2462	12.40	-7.60	2462	8.92	-11.08
Reference Level of Limit 802.11n20 mode			Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	10.28	-9.72	2422	5.21	-14.79
2437	9.95	-10.05	2437	5.33	-14.67
2462	10.10	-9.90	2452	5.38	-14.62

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Reference Level 802.11b 20MHz Chain0 2412MHz



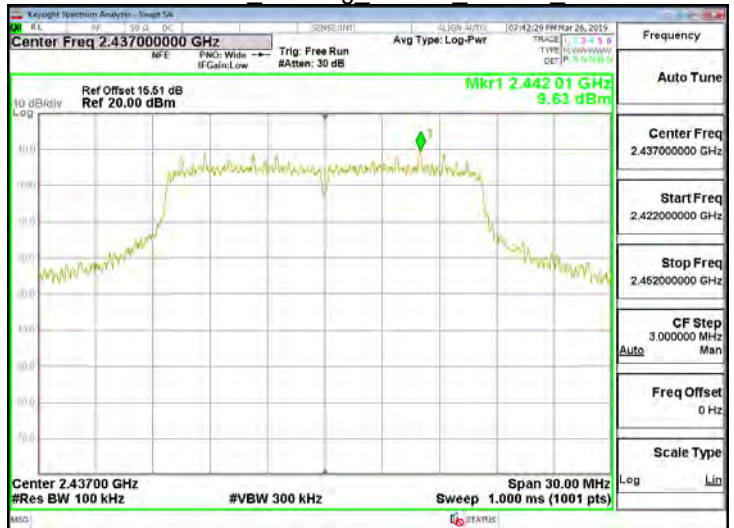
Reference Level 802.11g 20MHz Chain0 2412MHz



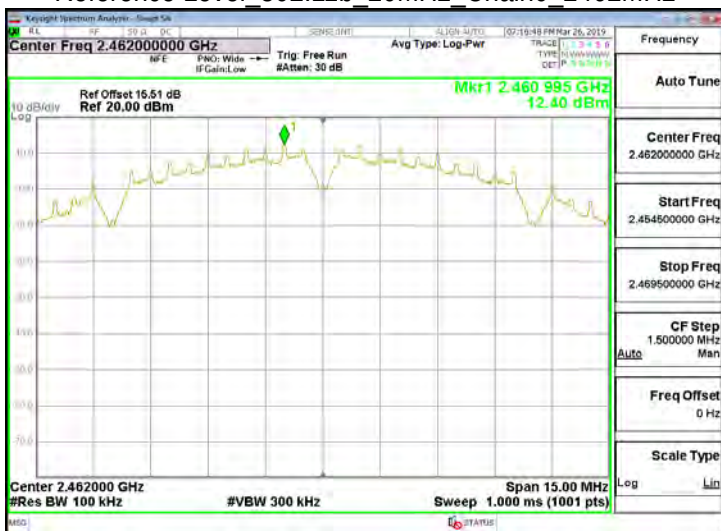
Reference Level 802.11b 20MHz Chain0 2437MHz



Reference Level 802.11g 20MHz Chain0 2437MHz



Reference Level 802.11b 20MHz Chain0 2462MHz



Reference Level 802.11g 20MHz Chain0 2462MHz



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Reference Level 802.11n 20MHz Chain0 2412MHz



Reference Level 802.11n 40MHz Chain0 2422MHz



Reference Level 802.11n 20MHz Chain0 2437MHz



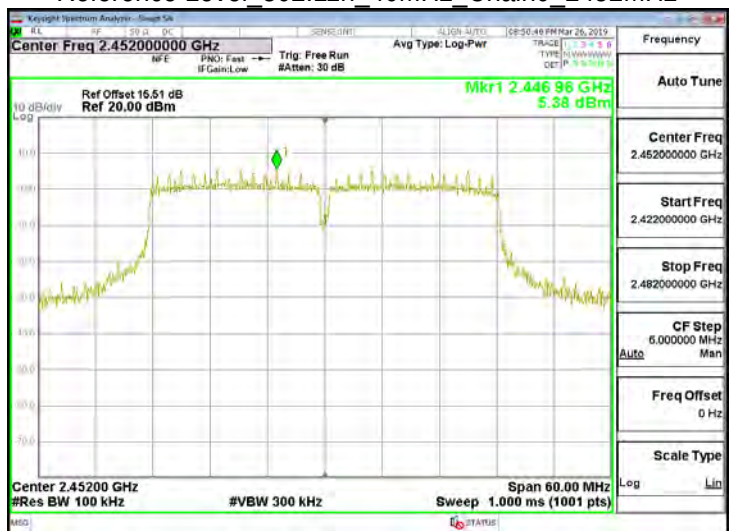
Reference Level 802.11n 40MHz Chain0 2437MHz



Reference Level 802.11n 20MHz Chain0 2462MHz



Reference Level 802.11n 40MHz Chain0 2452MHz



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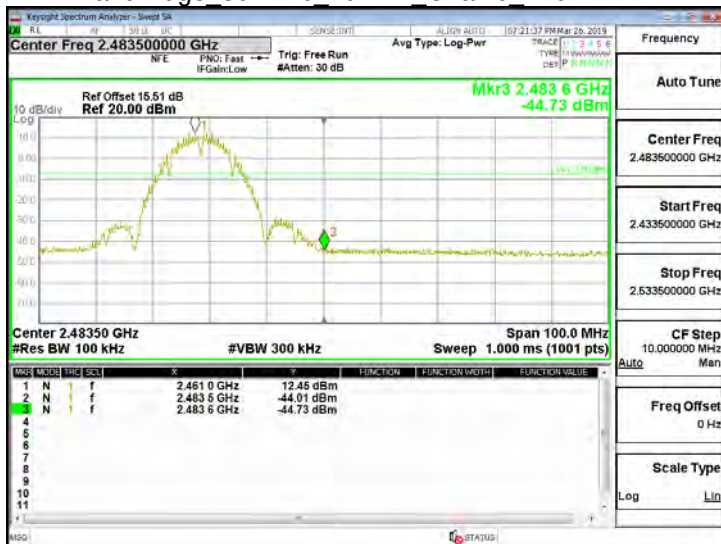
Band Edge 802.11b 20MHz Chain0 2412MHz



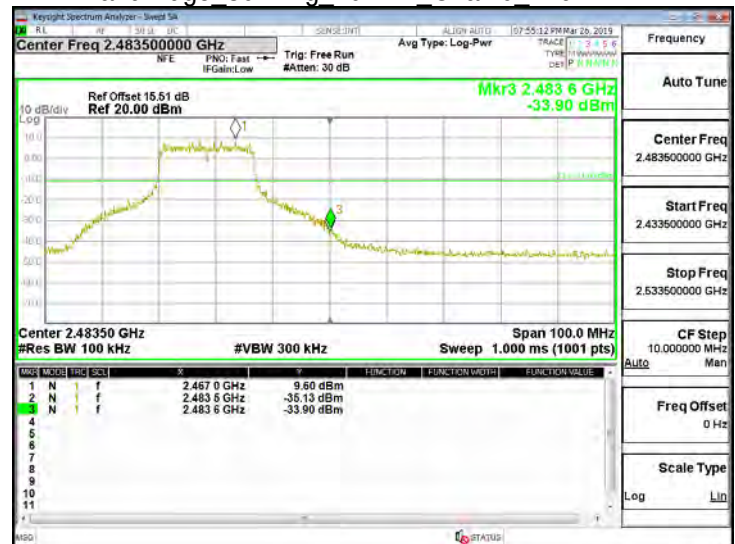
Band Edge 802.11g 20MHz Chain0 2412MHz



Band Edge 802.11b 20MHz Chain0 2462MHz



Band Edge 802.11g 20MHz Chain0 2462MHz



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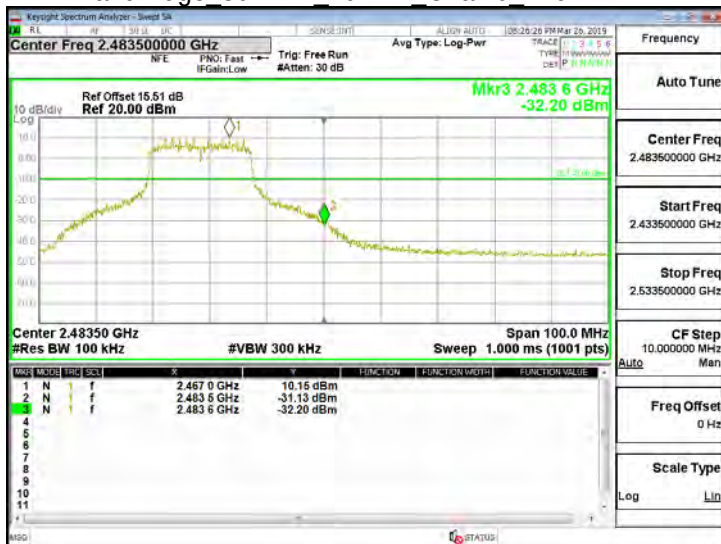
Band Edge 802.11n 20MHz Chain0 2412MHz



Band Edge 802.11n 40MHz Chain0 2422MHz



Band Edge 802.11n 20MHz Chain0 2462MHz



Band Edge 802.11n 40MHz Chain0 2452MHz

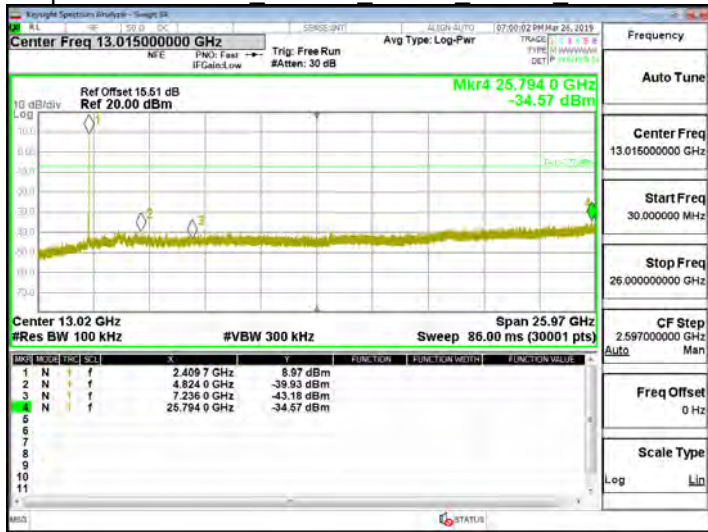


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Spurious Emission 802.11b 20MHz Chain0 2412MHz



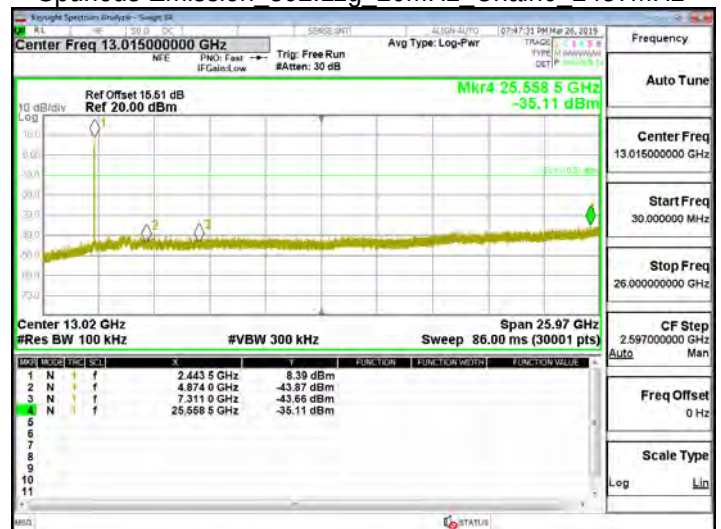
Spurious Emission 802.11g 20MHz Chain0 2412MHz



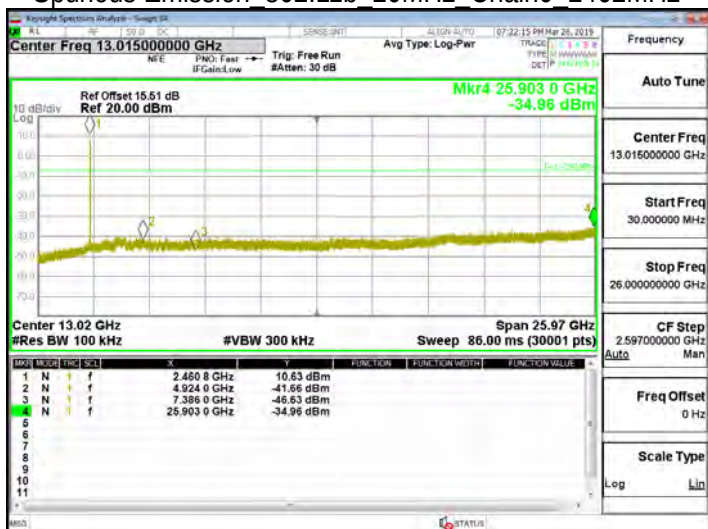
Spurious Emission 802.11b 20MHz Chain0 2437MHz



Spurious Emission 802.11g 20MHz Chain0 2437MHz



Spurious Emission 802.11b 20MHz Chain0 2462MHz



Spurious Emission 802.11g 20MHz Chain0 2462MHz

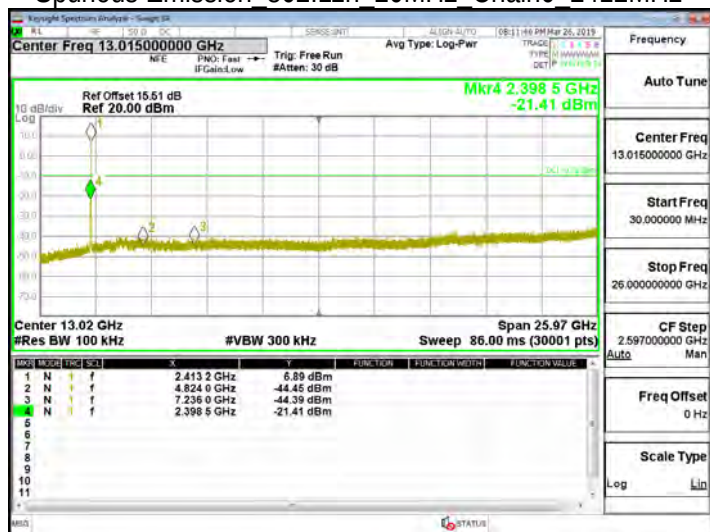


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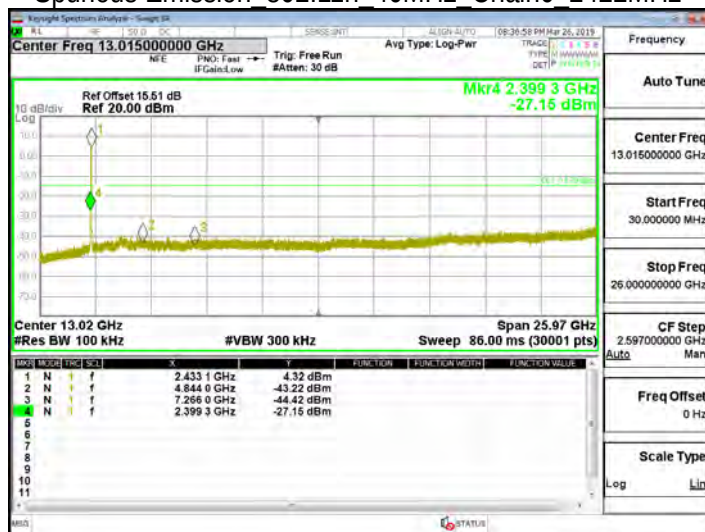
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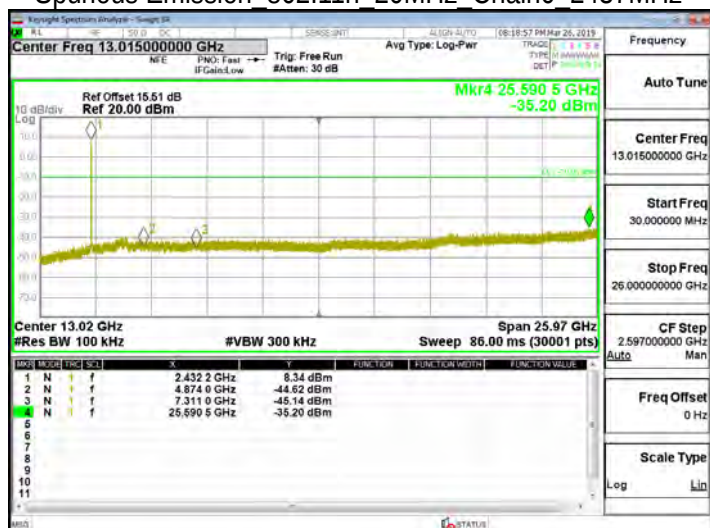
Spurious Emission 802.11n 20MHz Chain0 2412MHz



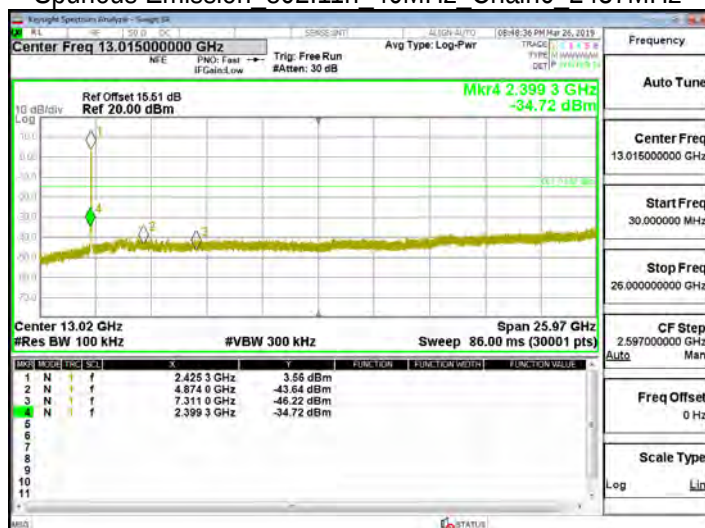
Spurious Emission 802.11n 40MHz Chain0 2422MHz



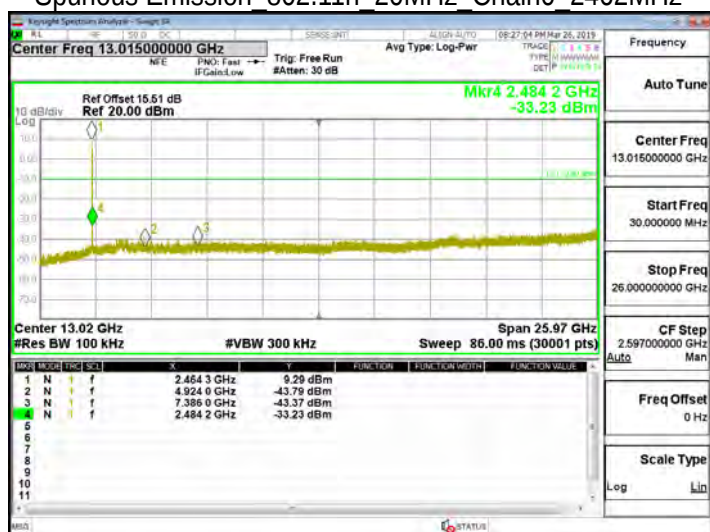
Spurious Emission 802.11n 20MHz Chain0 2437MHz



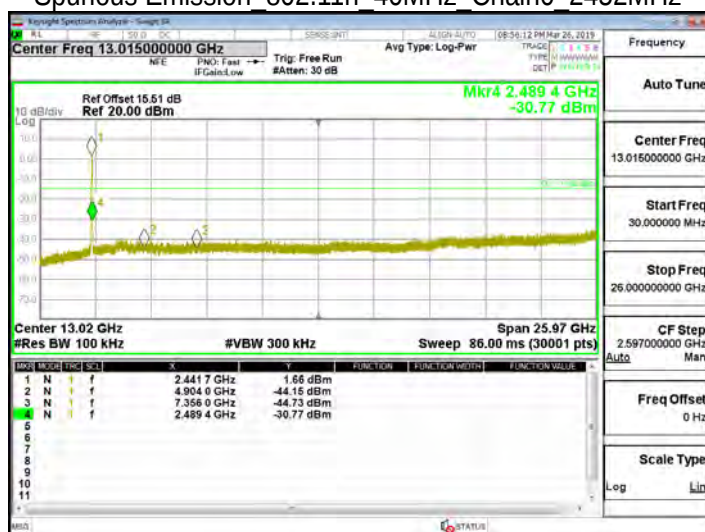
Spurious Emission 802.11n 40MHz Chain0 2437MHz



Spurious Emission 802.11n 20MHz Chain0 2462MHz



Spurious Emission 802.11n 40MHz Chain0 2452MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

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

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

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

Note:

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

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11.2 Measurement Equipment Used:

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Cable	HUBER SU-HNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SU-HNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

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

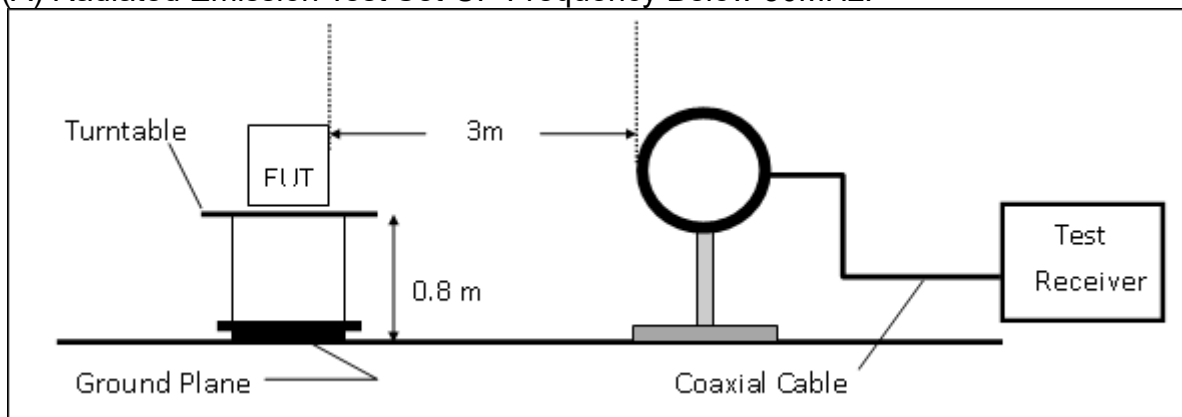
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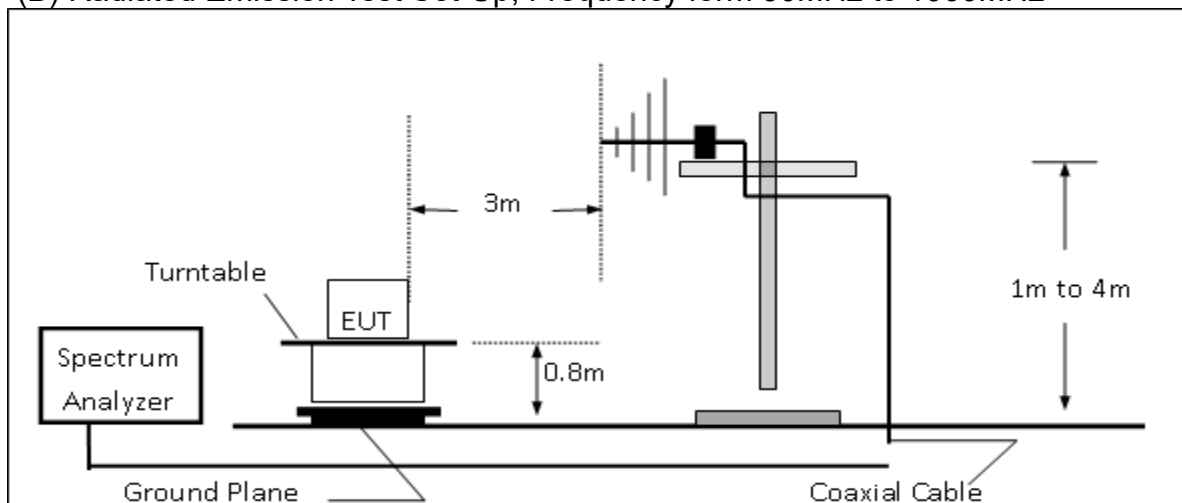
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11.3 Test SET-UP

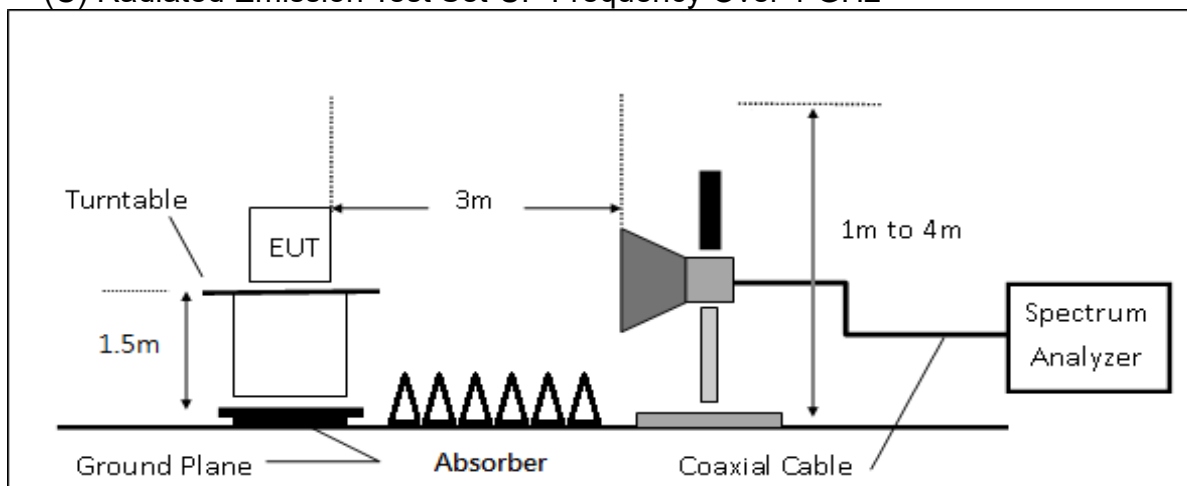
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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.

11.5 Field Strength Calculation

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

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

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

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

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

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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 for tabular data sheets.

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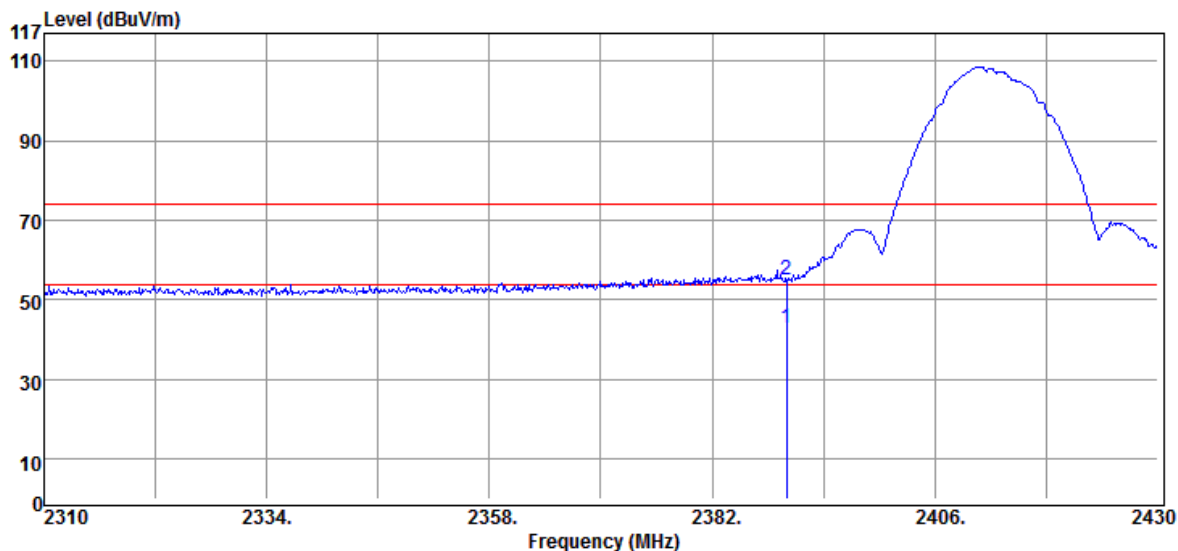
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Radiated Band Edge Measurement Result

PCB Antenna

Project Number : T190321W03
Operation Band : 802.11b
Fundamental Frequency : 2412 MHz
Operation Mode : Bandedge CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-04
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2390.00	Average	46.13	-3.33	42.80	54.00	-11.20
2390.00	Peak	58.56	-3.33	55.23	74.00	-18.77

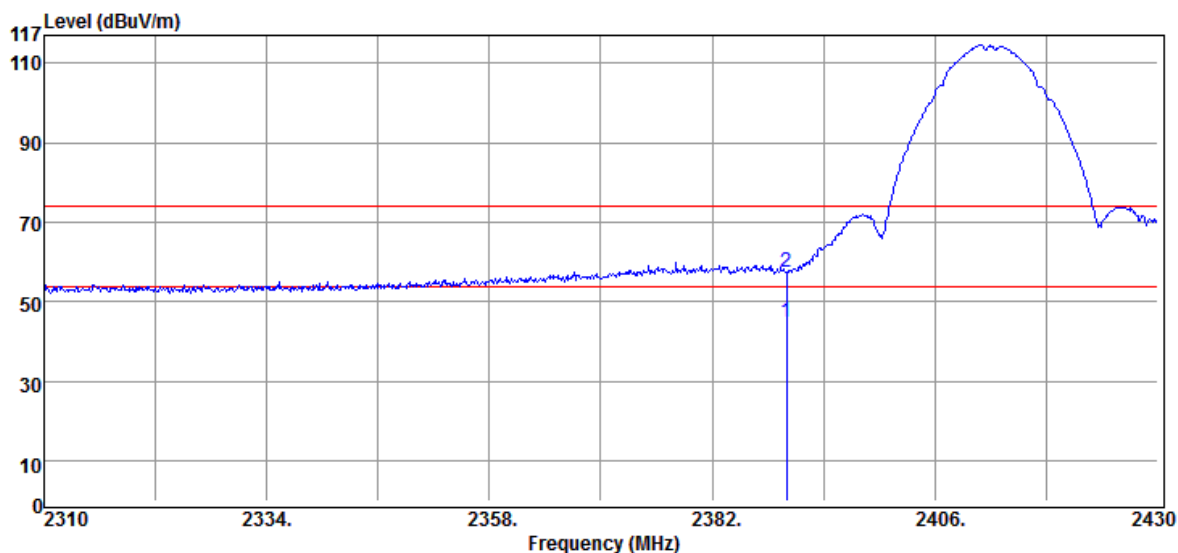
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Project Number : T190321W03
Operation Band :802.11b
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	48.30	-3.33	44.97	54.00	-9.03
2390.00	Peak	60.78	-3.33	57.45	74.00	-16.55

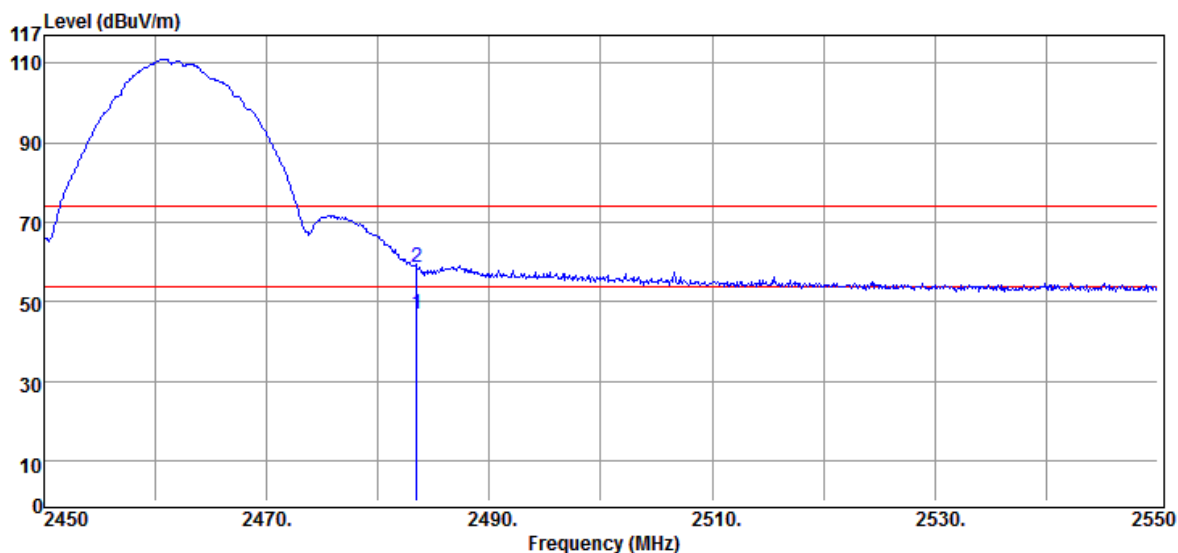
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Project Number : T190321W03
Operation Band :802.11b
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	49.54	-2.72	46.82	54.00	-7.18
2483.50	Peak	61.42	-2.72	58.70	74.00	-15.30

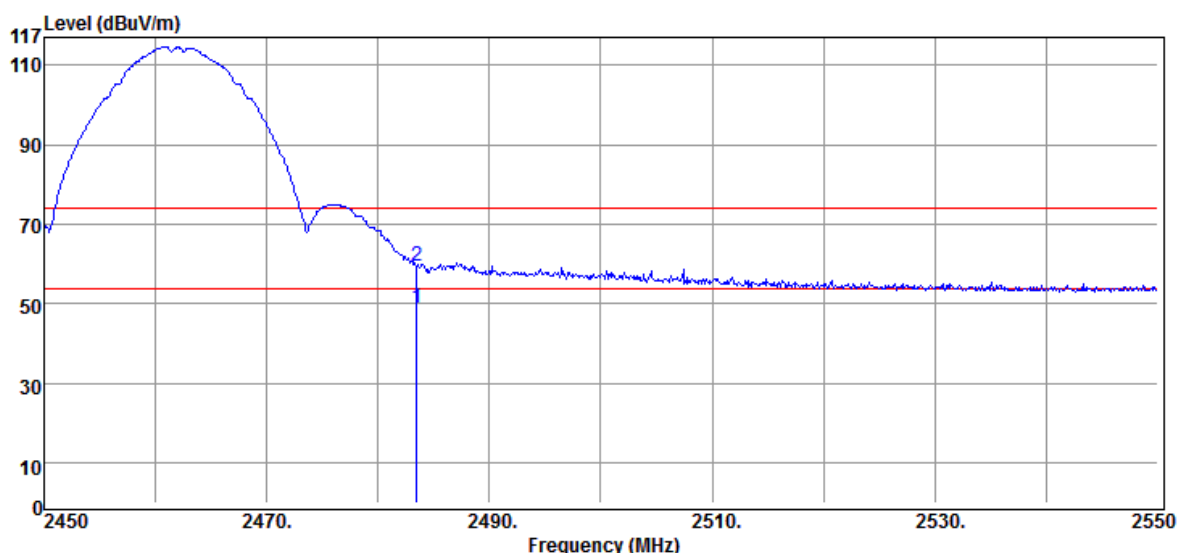
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Project Number : T190321W03
Operation Band :802.11b
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.65	-2.72	48.93	54.00	-5.07
2483.50	Peak	62.12	-2.72	59.40	74.00	-14.60

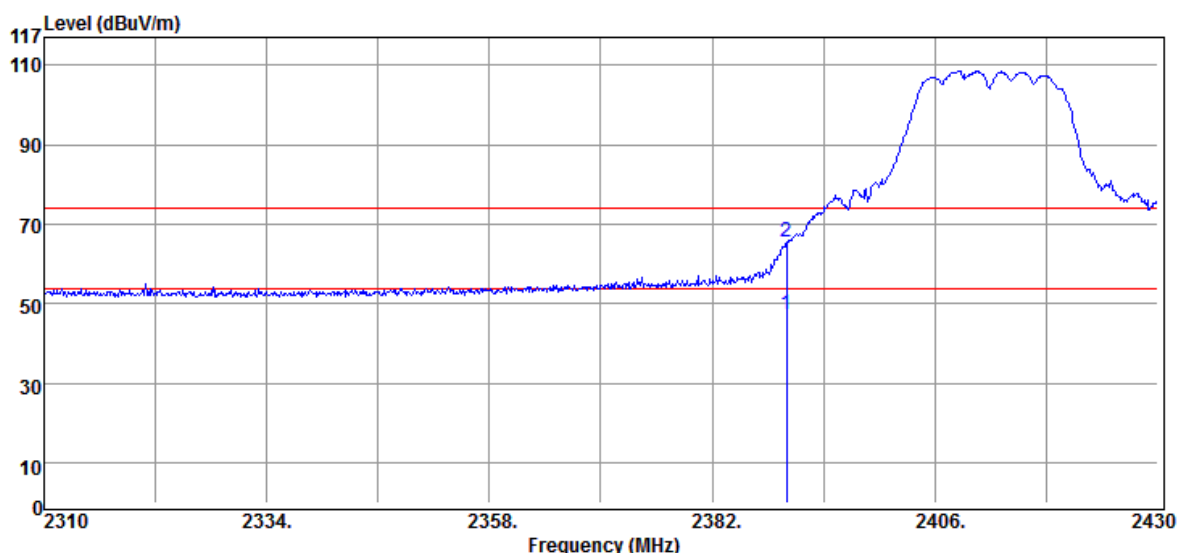
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	50.62	-3.33	47.29	54.00	-6.71
2390.00	Peak	68.72	-3.33	65.39	74.00	-8.61

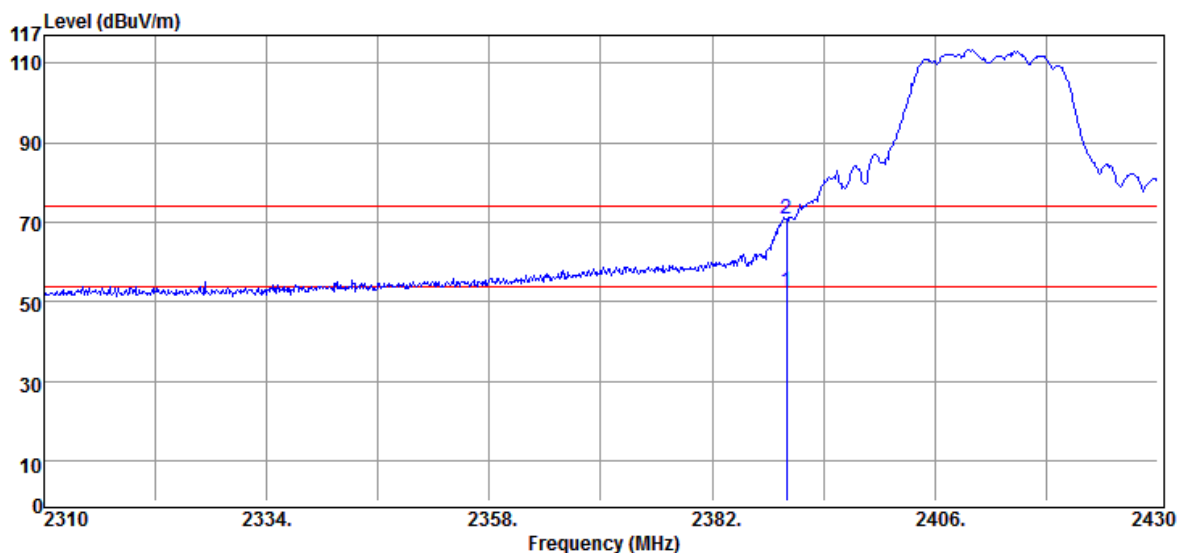
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	55.89	-3.33	52.56	54.00	-1.44
2390.00	Peak	74.30	-3.33	70.97	74.00	-3.03

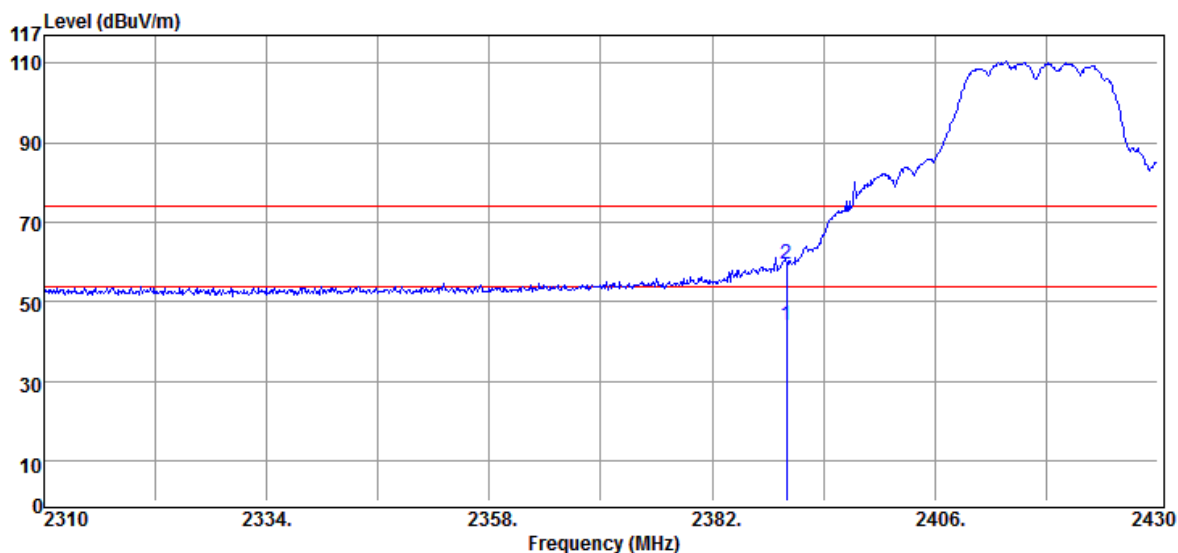
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2417 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	47.60	-3.33	44.27	54.00	-9.73
2390.00	Peak	62.92	-3.33	59.59	74.00	-14.41

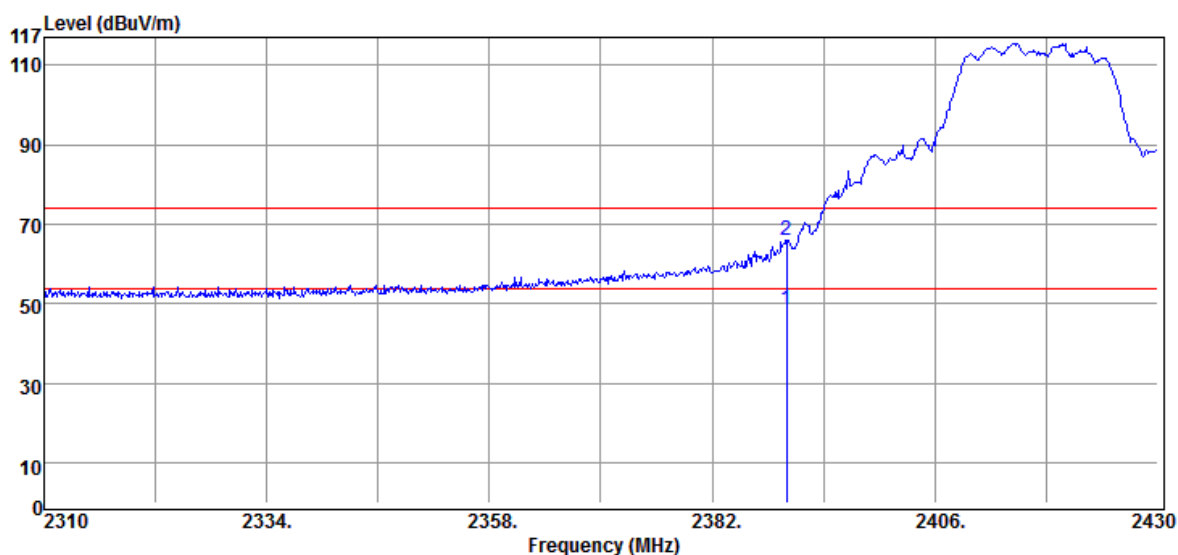
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2417 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	51.89	-3.33	48.56	54.00	-5.44
2390.00	Peak	69.45	-3.33	66.12	74.00	-7.88

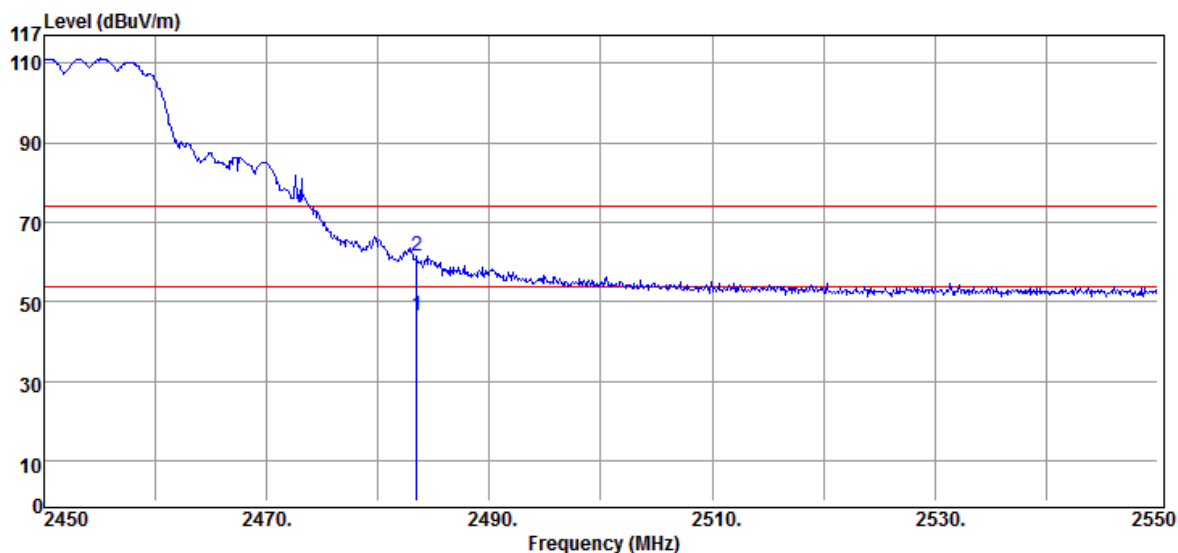
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2452 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	49.25	-2.72	46.53	54.00	-7.47
2483.50	Peak	64.39	-2.72	61.67	74.00	-12.33

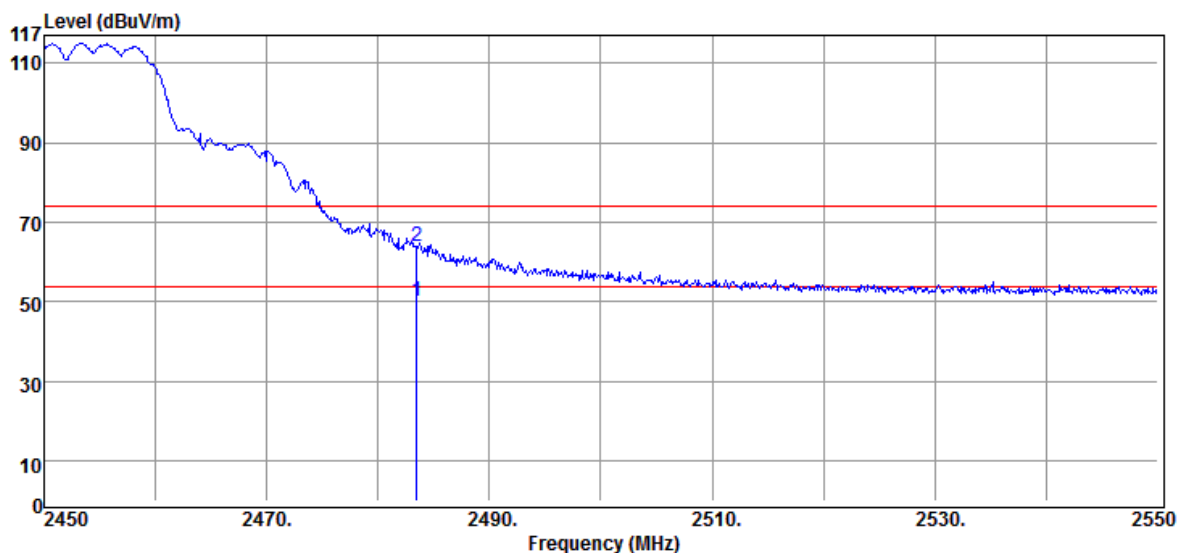
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2452 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	52.93	-2.72	50.21	54.00	-3.79
2483.50	Peak	66.75	-2.72	64.03	74.00	-9.97

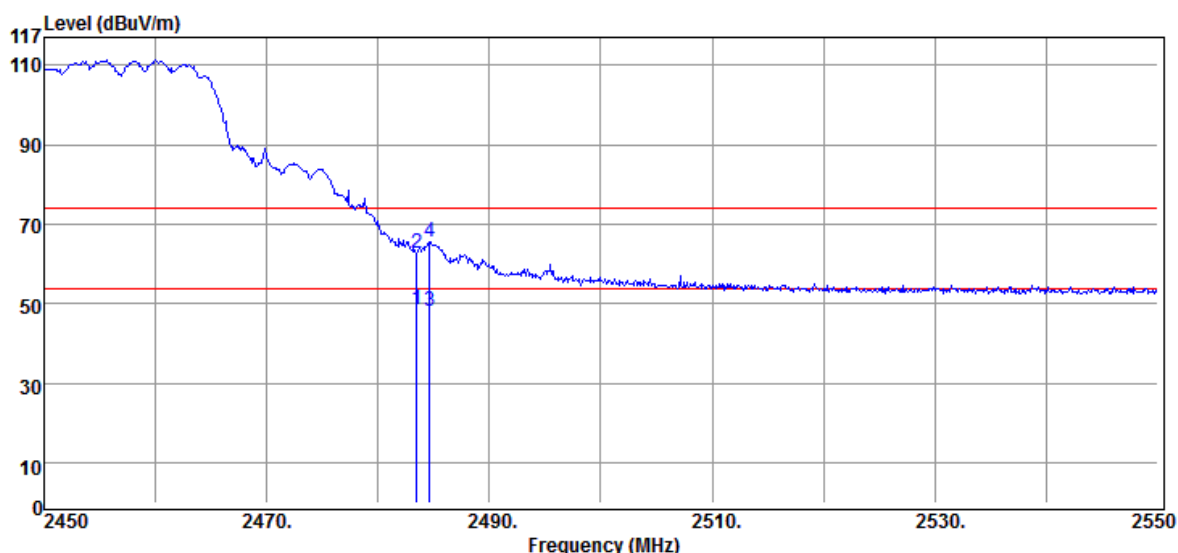
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2457 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.11	-2.72	48.39	54.00	-5.61
2483.50	Peak	65.63	-2.72	62.91	74.00	-11.09
2484.60	Average	50.79	-2.70	48.09	54.00	-5.91
2484.60	Peak	68.48	-2.70	65.78	74.00	-8.22

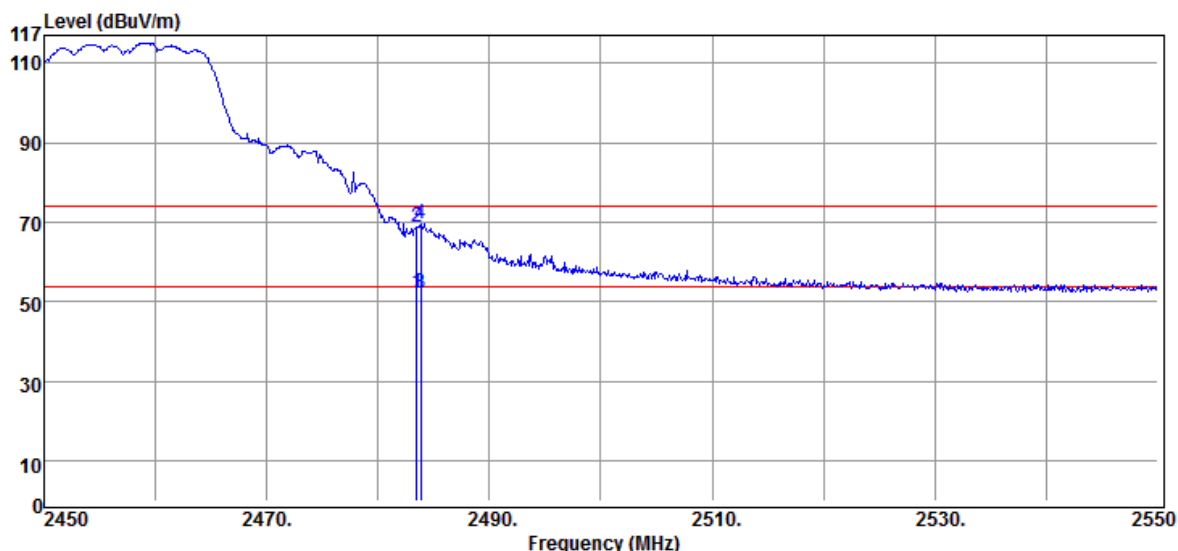
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2457 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	55.07	-2.72	52.35	54.00	-1.65
2483.50	Peak	71.45	-2.72	68.73	74.00	-5.27
2483.80	Average	54.95	-2.71	52.24	54.00	-1.76
2483.80	Peak	72.43	-2.71	69.72	74.00	-4.28

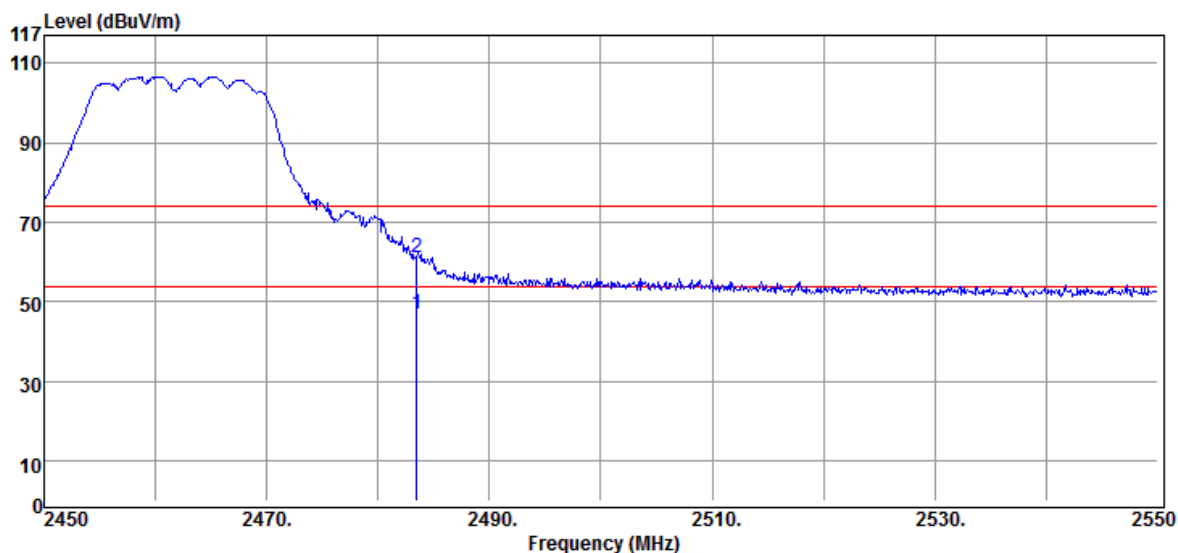
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	49.59	-2.72	46.87	54.00	-7.13
2483.50	Peak	64.01	-2.72	61.29	74.00	-12.71

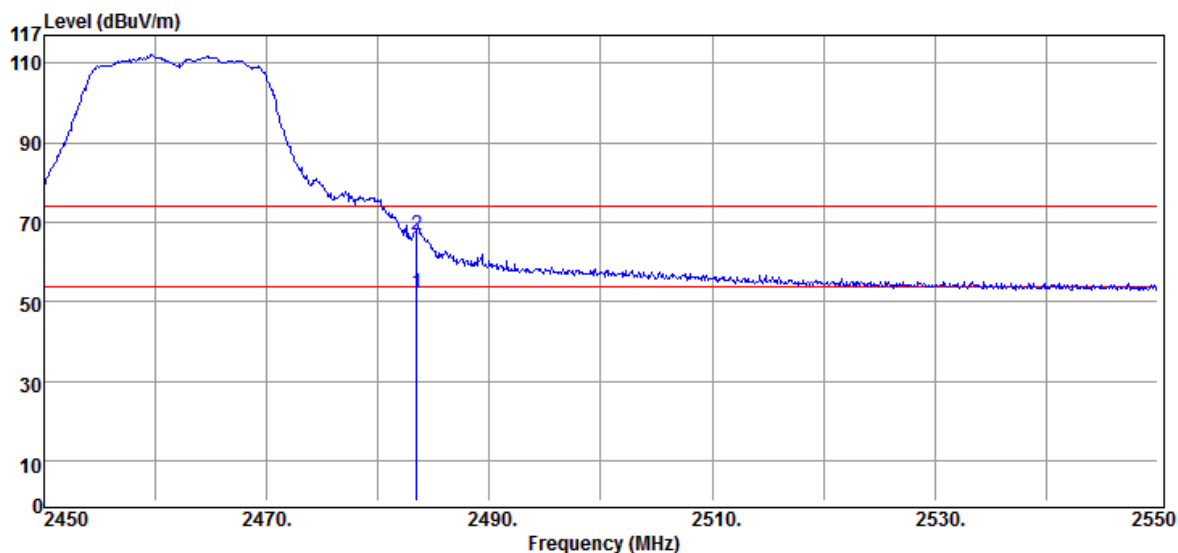
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	54.82	-2.72	52.10	54.00	-1.90
2483.50	Peak	69.50	-2.72	66.78	74.00	-7.22

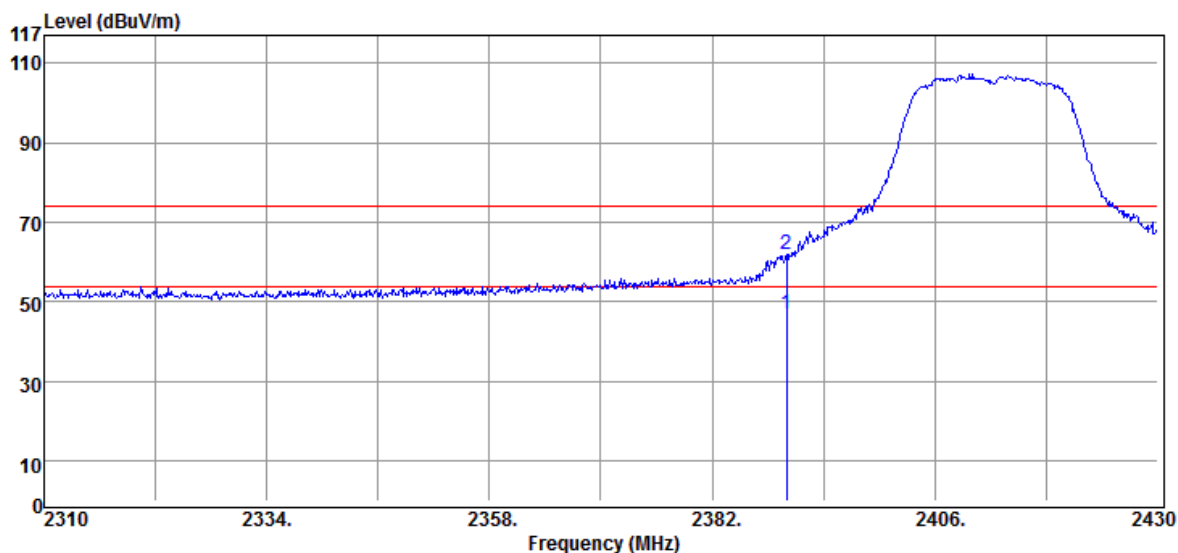
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	50.49	-3.33	47.16	54.00	-6.84
2390.00	Peak	65.28	-3.33	61.95	74.00	-12.05

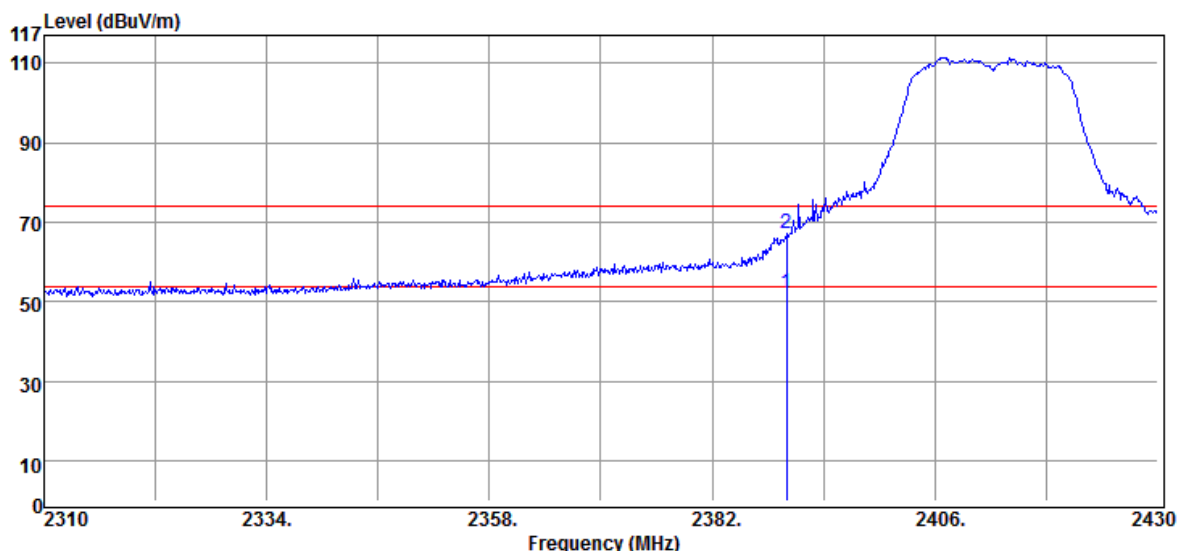
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	55.42	-3.33	52.09	54.00	-1.91
2390.00	Peak	70.39	-3.33	67.06	74.00	-6.94

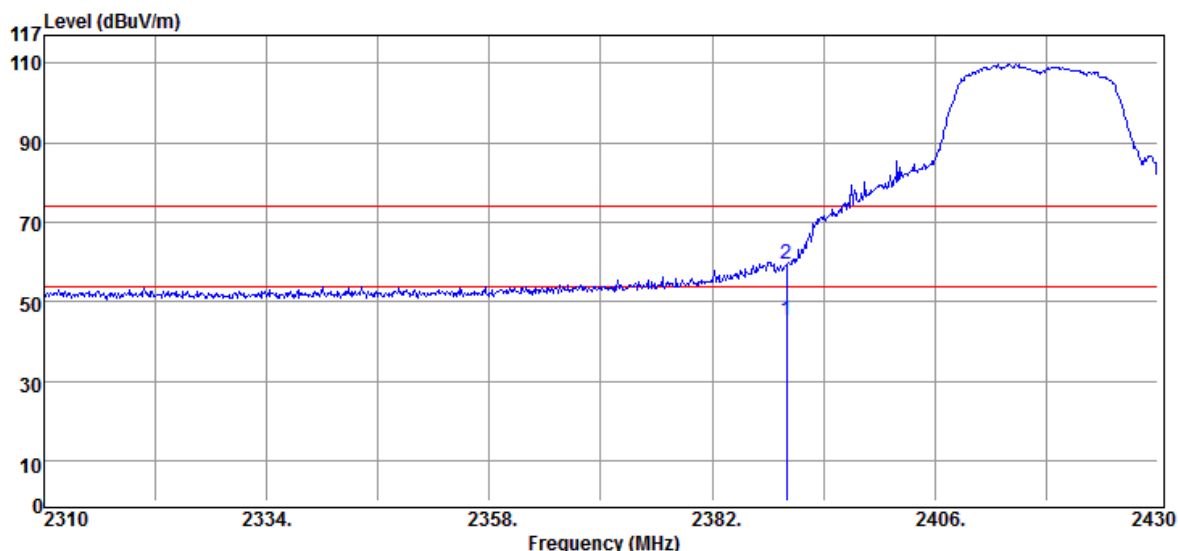
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2417 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	48.78	-3.33	45.45	54.00	-8.55
2390.00	Peak	62.74	-3.33	59.41	74.00	-14.59

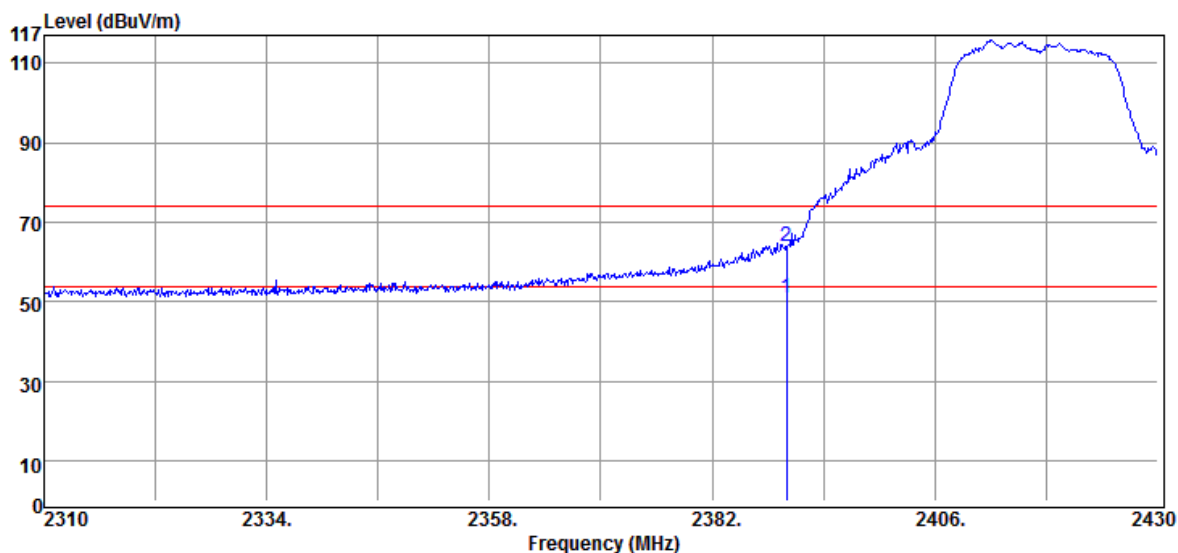
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2417 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	54.16	-3.33	50.83	54.00	-3.17
2390.00	Peak	67.30	-3.33	63.97	74.00	-10.03

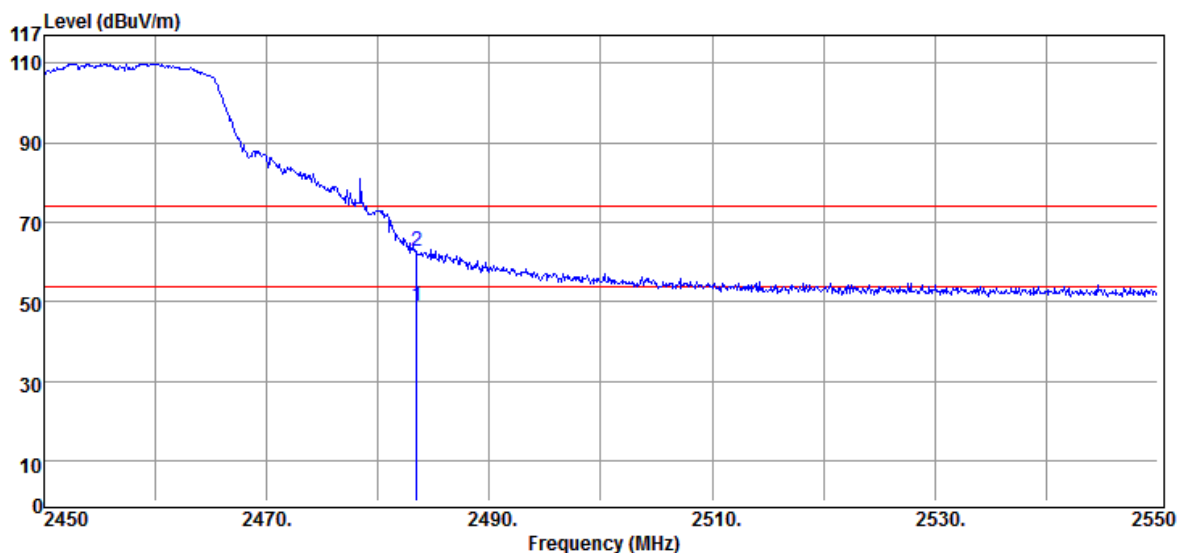
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2457 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.78	-2.72	49.06	54.00	-4.94
2483.50	Peak	65.65	-2.72	62.93	74.00	-11.07

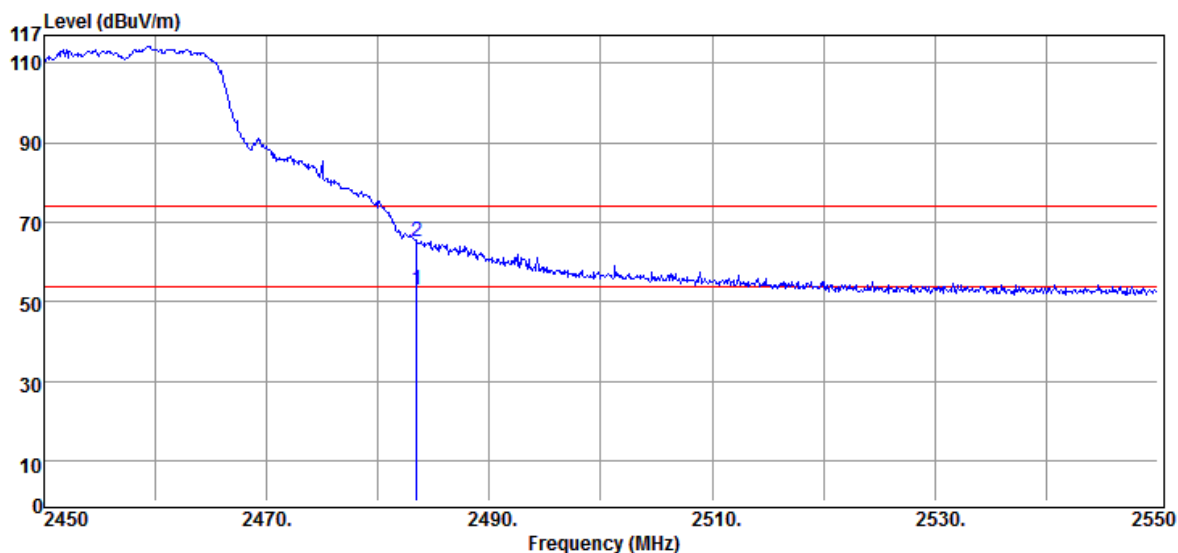
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2457 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	55.57	-2.72	52.85	54.00	-1.15
2483.50	Peak	67.89	-2.72	65.17	74.00	-8.83

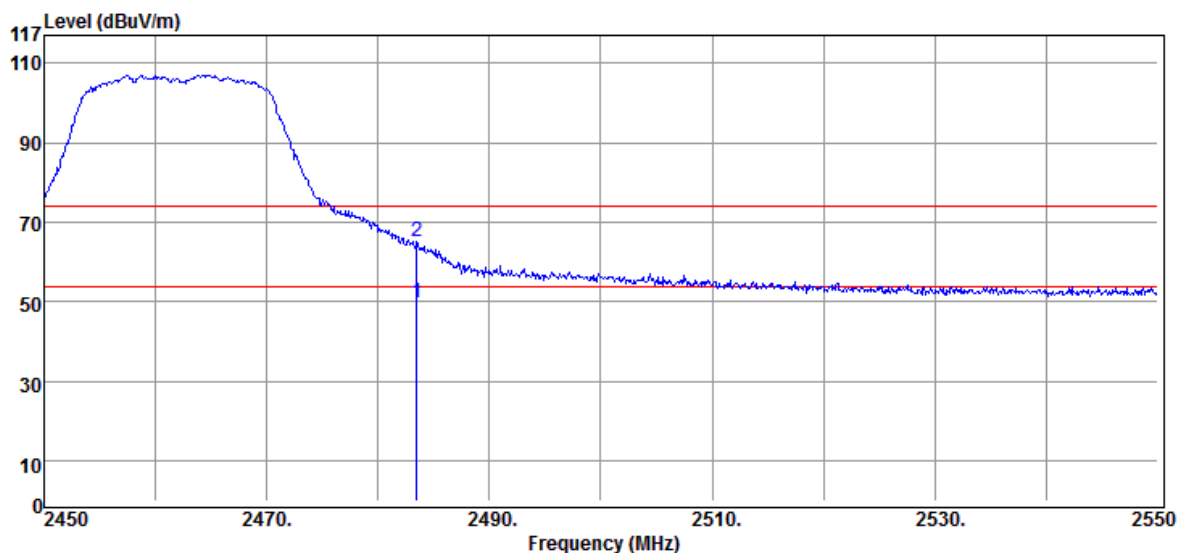
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	52.52	-2.72	49.80	54.00	-4.20
2483.50	Peak	67.72	-2.72	65.00	74.00	-9.00

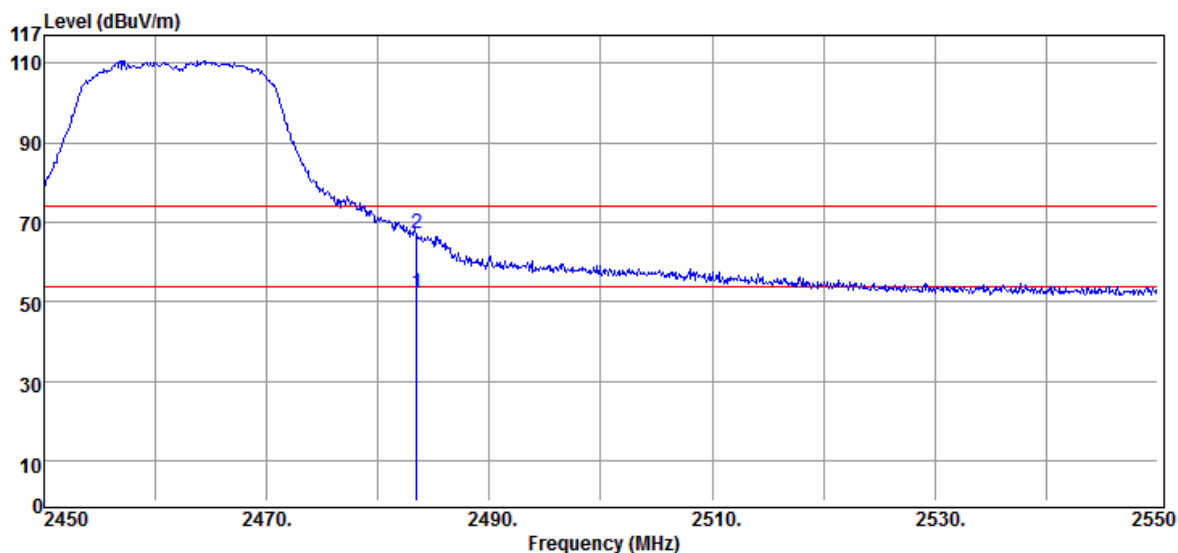
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	55.09	-2.72	52.37	54.00	-1.63
2483.50	Peak	69.99	-2.72	67.27	74.00	-6.73

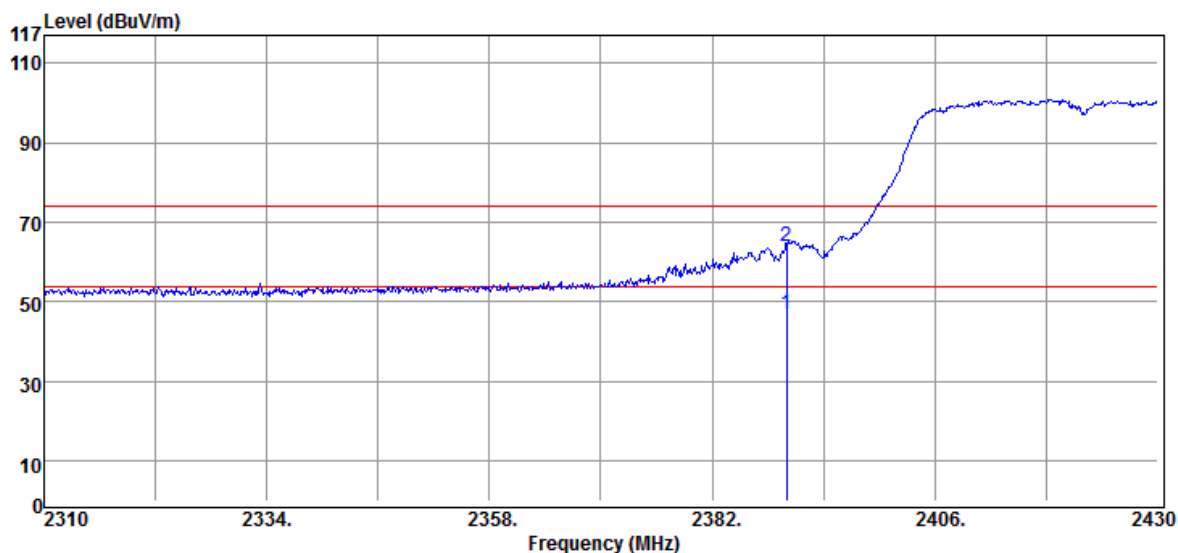
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2422 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2390.00	Average	50.43	-3.33	47.10	54.00	-6.90
2390.00	Peak	67.19	-3.33	63.86	74.00	-10.14

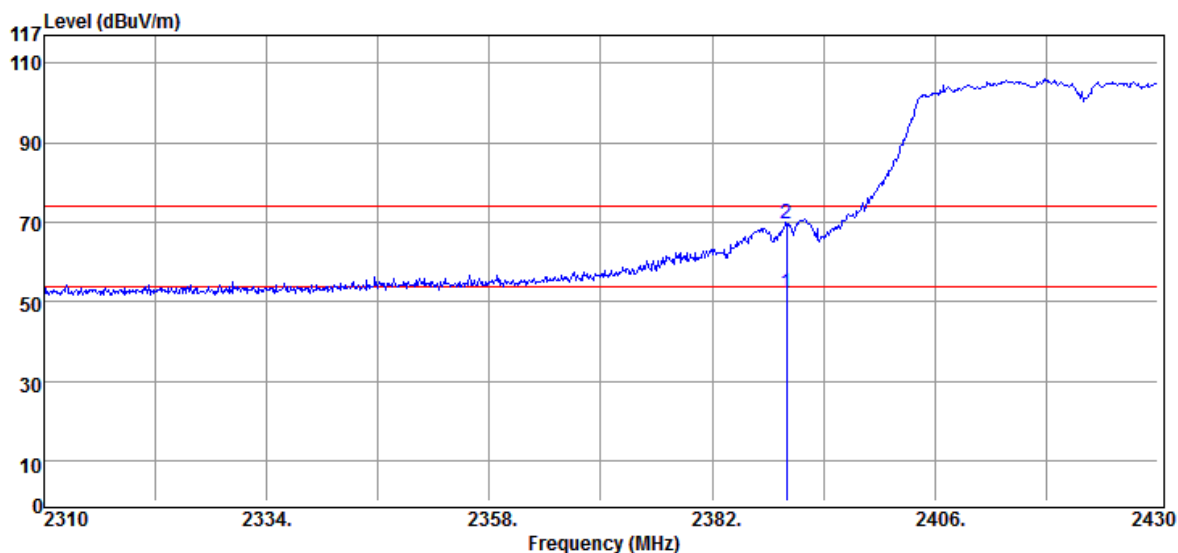
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2422 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	55.41	-3.33	52.08	54.00	-1.92
2390.00	Peak	72.78	-3.33	69.45	74.00	-4.55

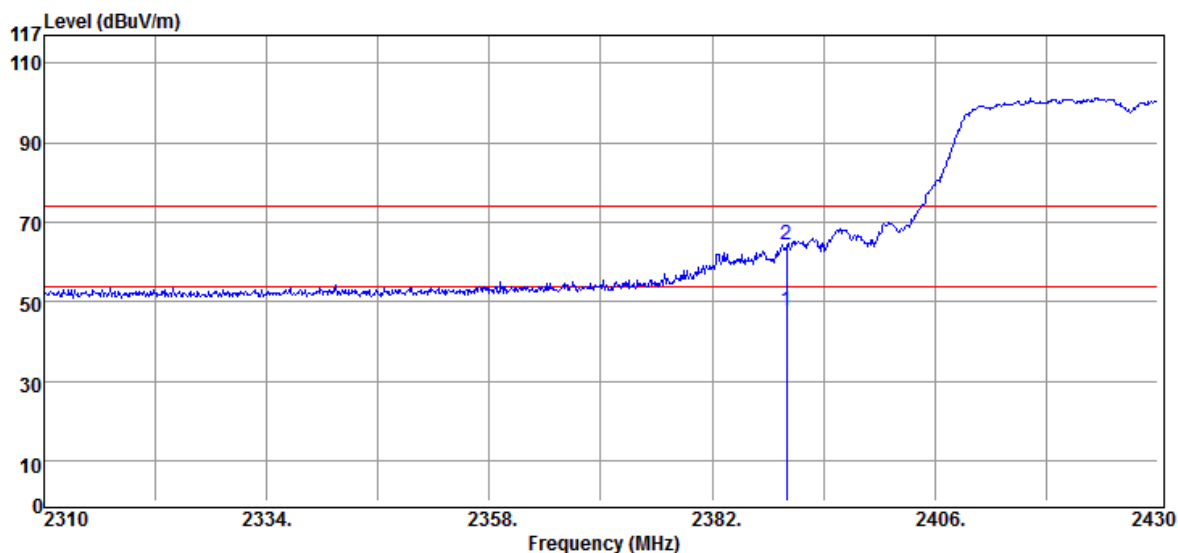
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2427 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	51.21	-3.33	47.88	54.00	-6.12
2390.00	Peak	67.64	-3.33	64.31	74.00	-9.69

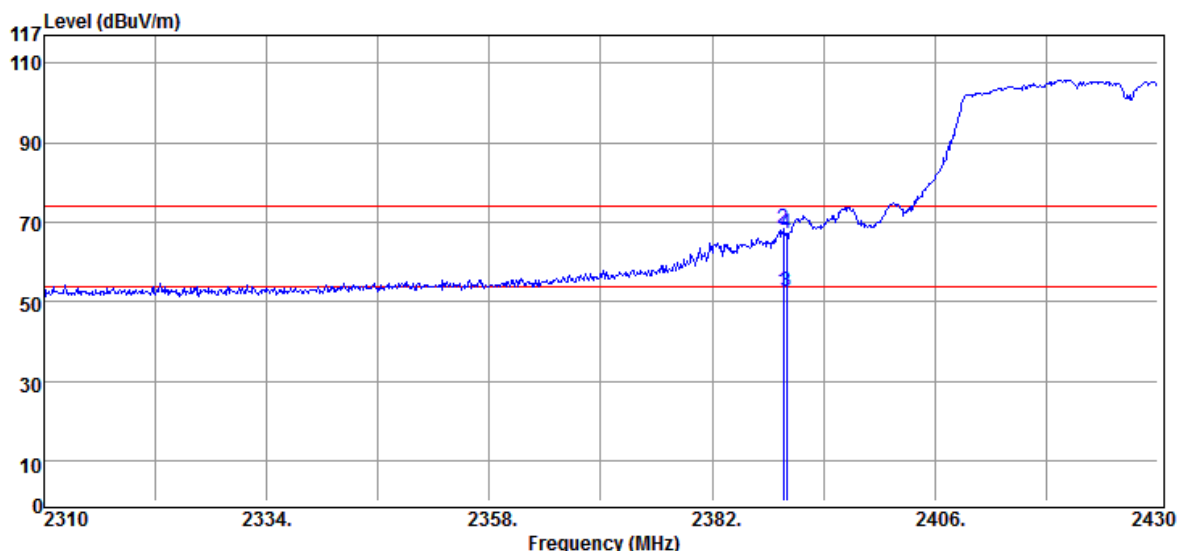
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2427 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.68	Average	55.82	-3.33	52.49	54.00	-1.51
2389.68	Peak	71.62	-3.33	68.29	74.00	-5.71
2390.00	Average	55.95	-3.33	52.62	54.00	-1.38
2390.00	Peak	70.73	-3.33	67.40	74.00	-6.60

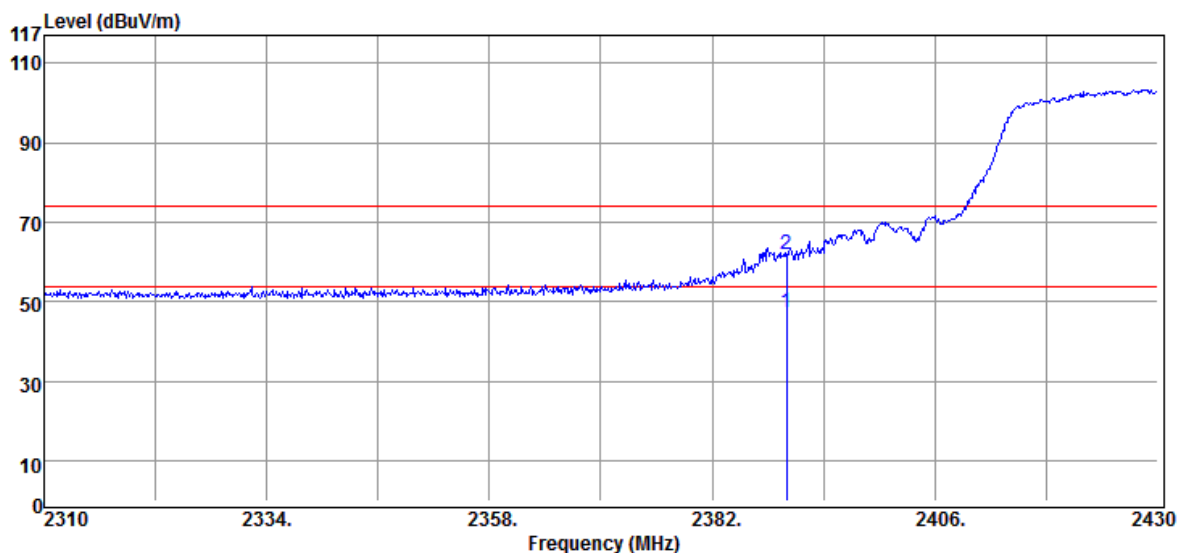
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2432 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	50.84	-3.33	47.51	54.00	-6.49
2390.00	Peak	65.09	-3.33	61.76	74.00	-12.24

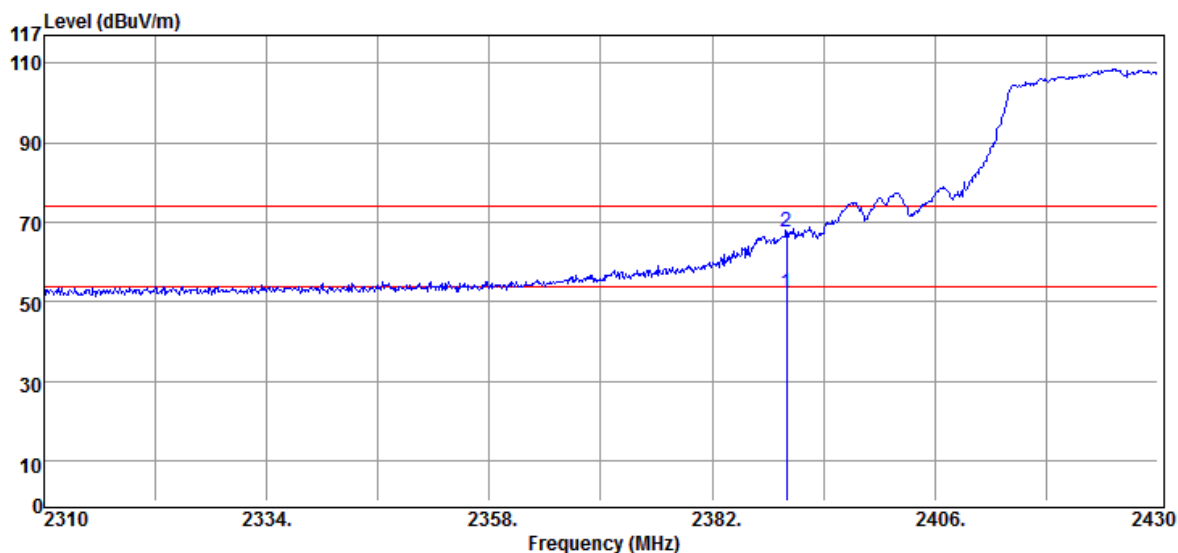
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2432 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	55.42	-3.33	52.09	54.00	-1.91
2390.00	Peak	71.00	-3.33	67.67	74.00	-6.33

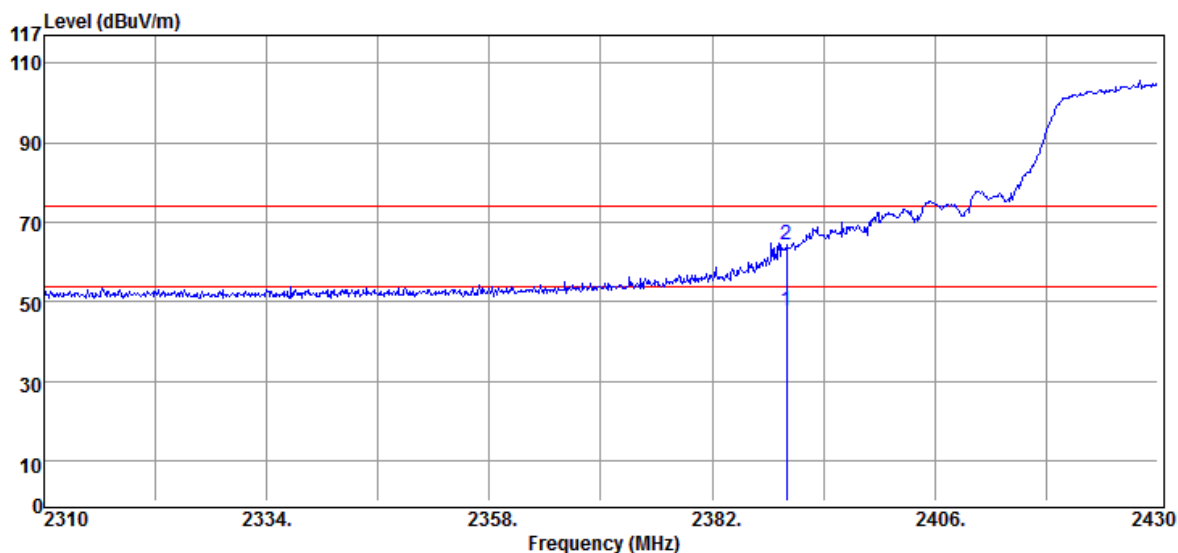
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	50.91	-3.33	47.58	54.00	-6.42
2390.00	Peak	67.74	-3.33	64.41	74.00	-9.59

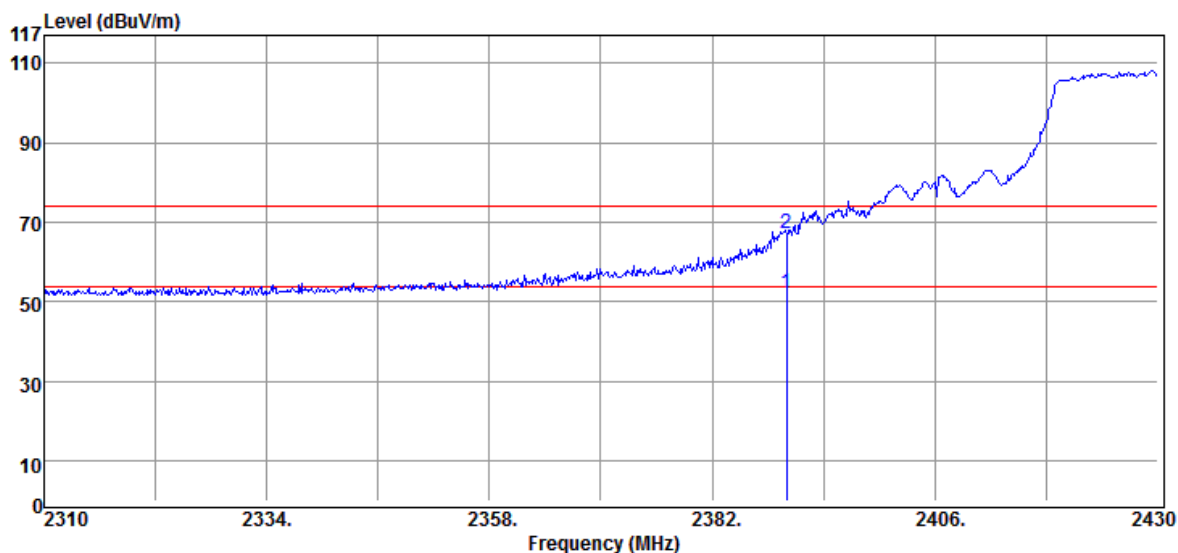
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	55.41	-3.33	52.08	54.00	-1.92
2390.00	Peak	70.72	-3.33	67.39	74.00	-6.61

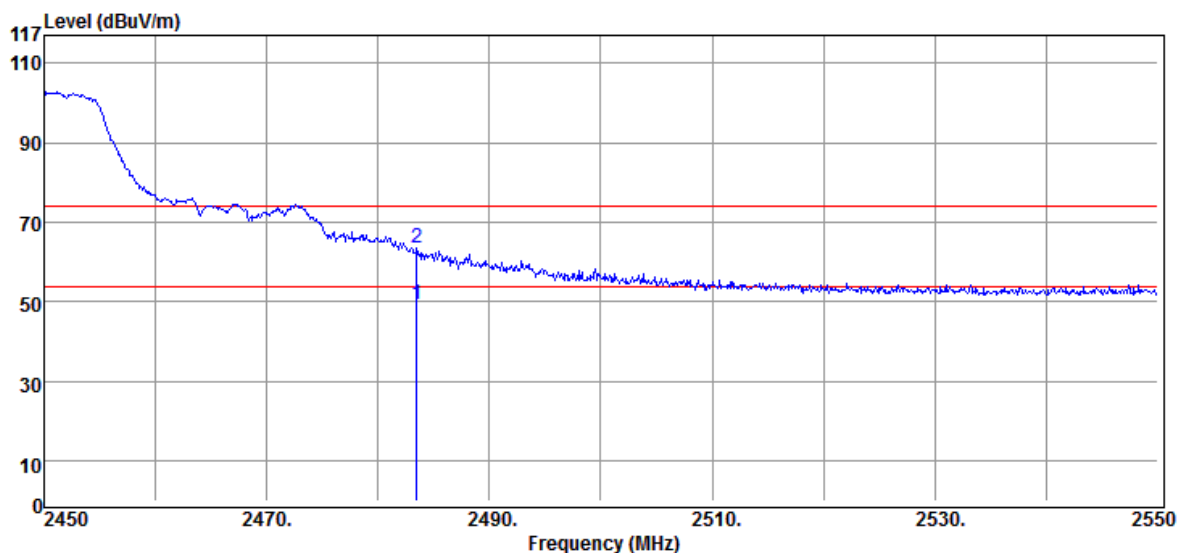
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	52.17	-2.72	49.45	54.00	-4.55
2483.50	Peak	66.11	-2.72	63.39	74.00	-10.61

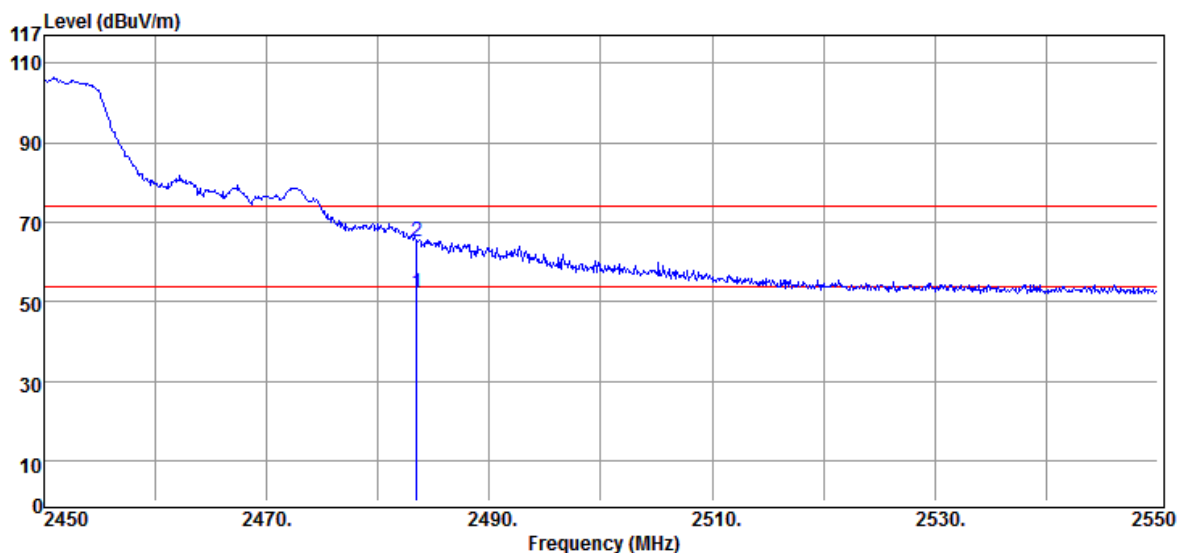
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.50	Average	54.98	-2.72	52.26	54.00	-1.74
2483.50	Peak	67.97	-2.72	65.25	74.00	-8.75

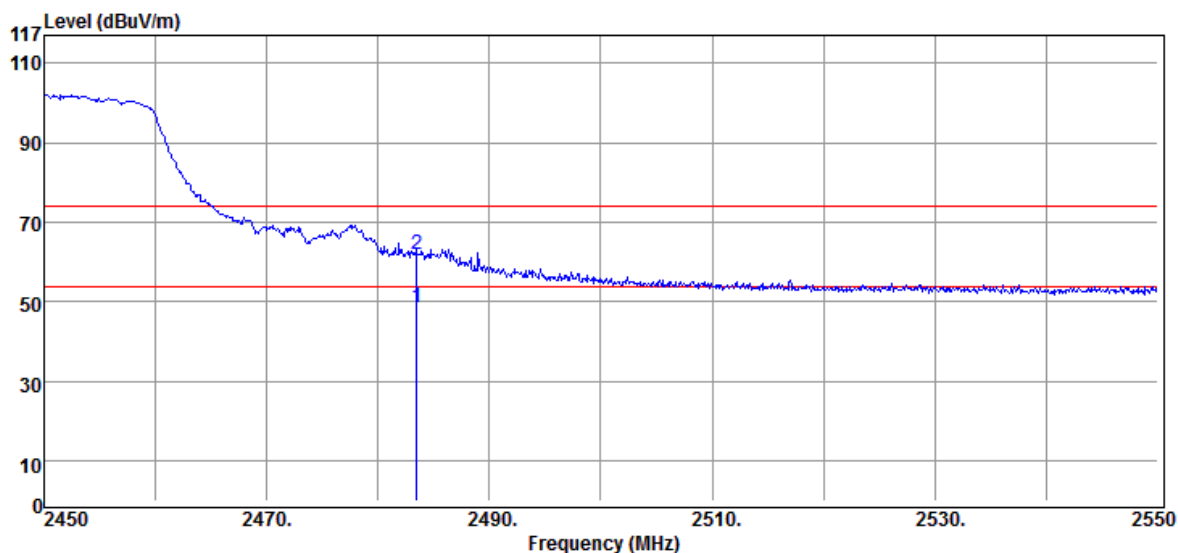
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2442 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	51.25	-2.72	48.53	54.00	-5.47
2483.50	Peak	64.52	-2.72	61.80	74.00	-12.20

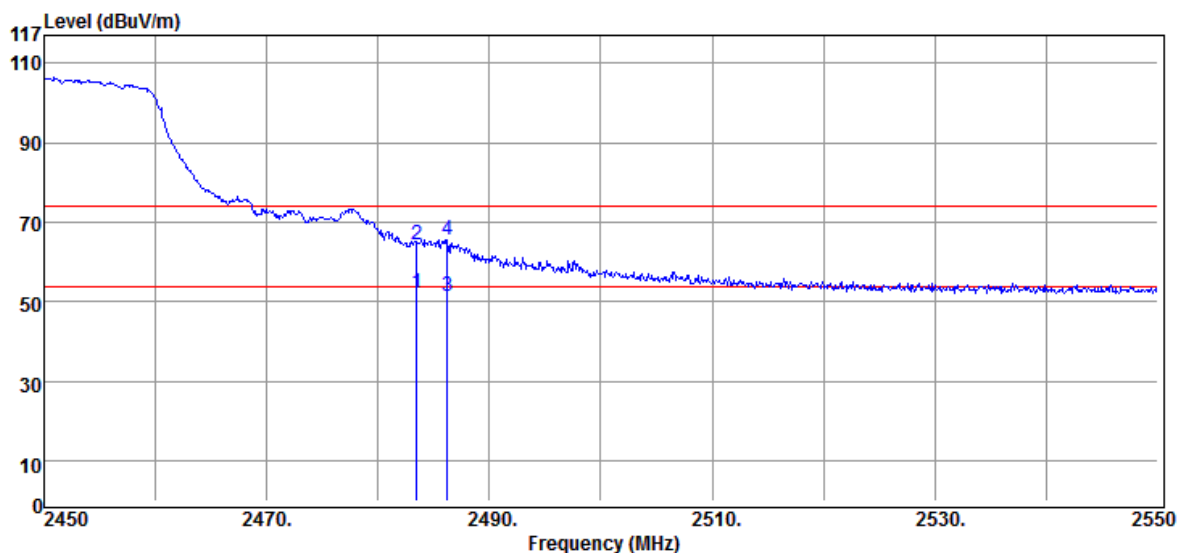
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2442 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	54.82	-2.72	52.10	54.00	-1.90
2483.50	Peak	67.19	-2.72	64.47	74.00	-9.53
2486.20	Average	54.25	-2.69	51.56	54.00	-2.44
2486.20	Peak	68.43	-2.69	65.74	74.00	-8.26

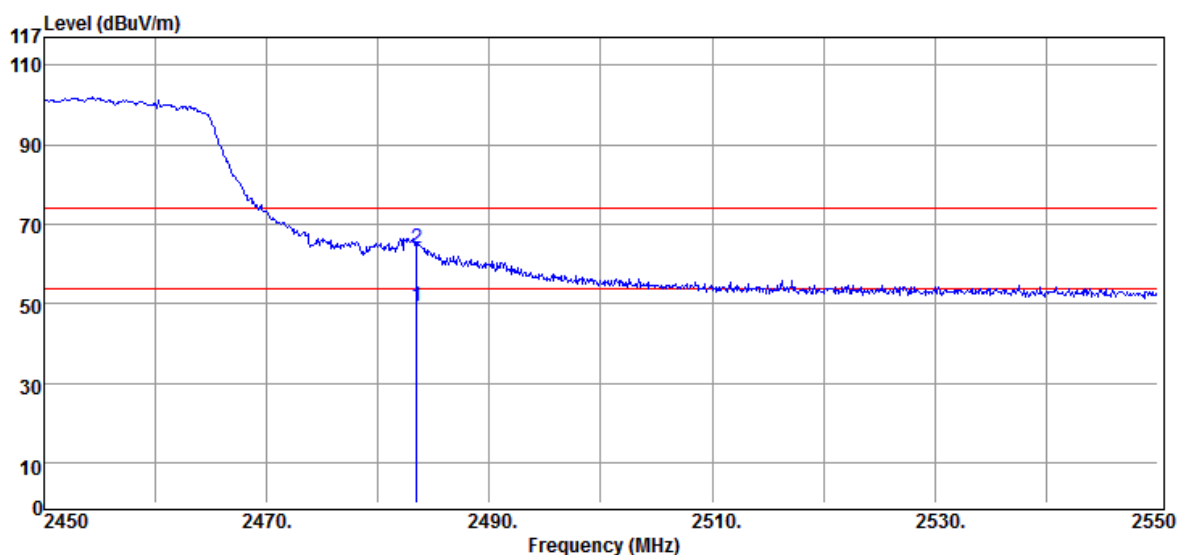
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	52.01	-2.72	49.29	54.00	-4.71
2483.50	Peak	66.50	-2.72	63.78	74.00	-10.22

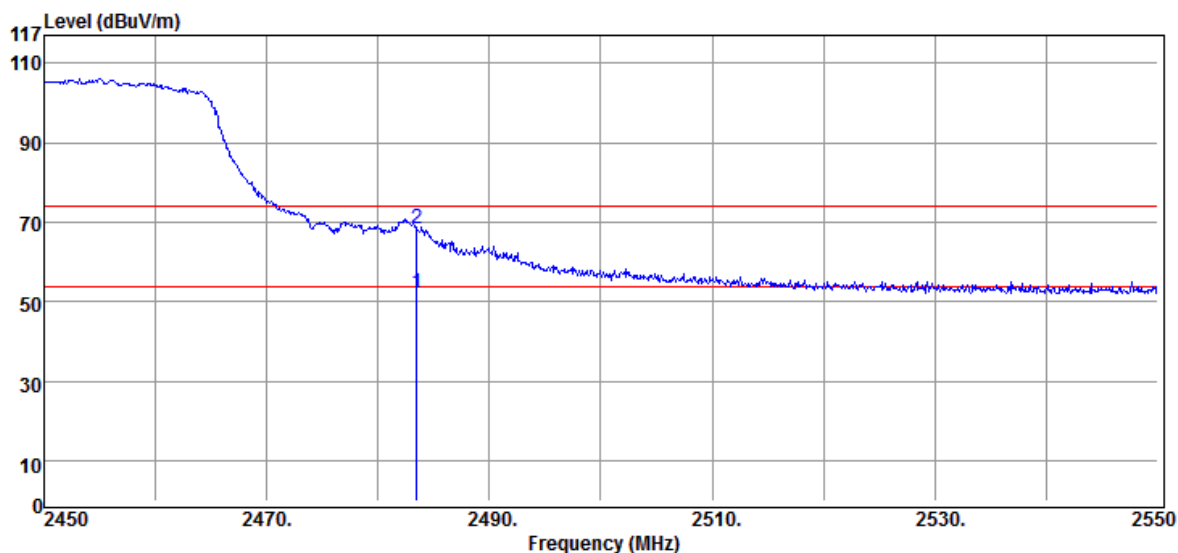
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	55.08	-2.72	52.36	54.00	-1.64
2483.50	Peak	70.98	-2.72	68.26	74.00	-5.74

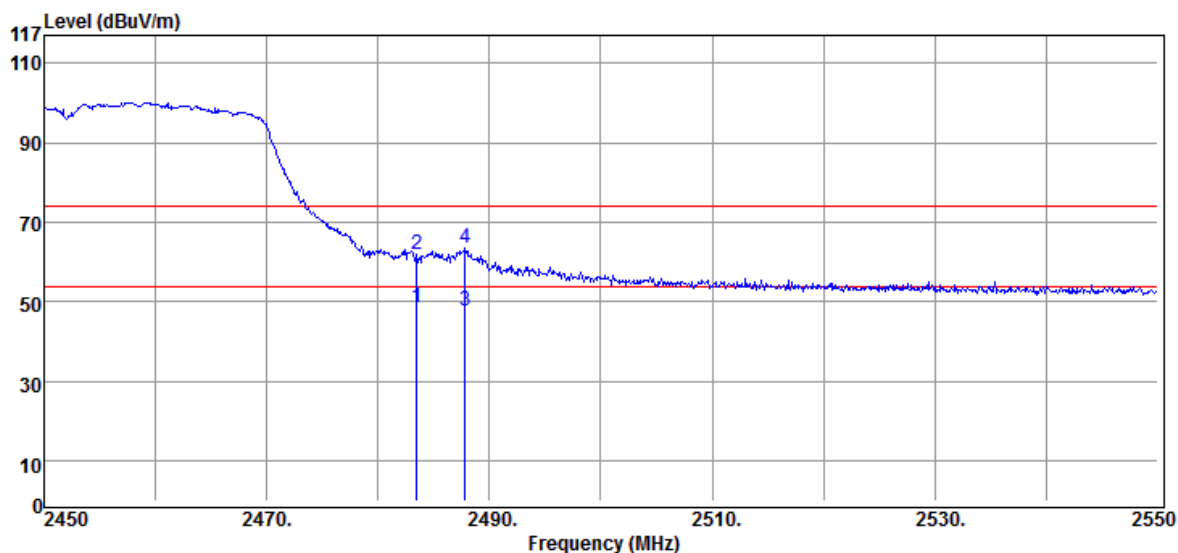
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2452 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.20	-2.72	48.48	54.00	-5.52
2483.50	Peak	64.57	-2.72	61.85	74.00	-12.15
2487.80	Average	50.46	-2.68	47.78	54.00	-6.22
2487.80	Peak	66.29	-2.68	63.61	74.00	-10.39

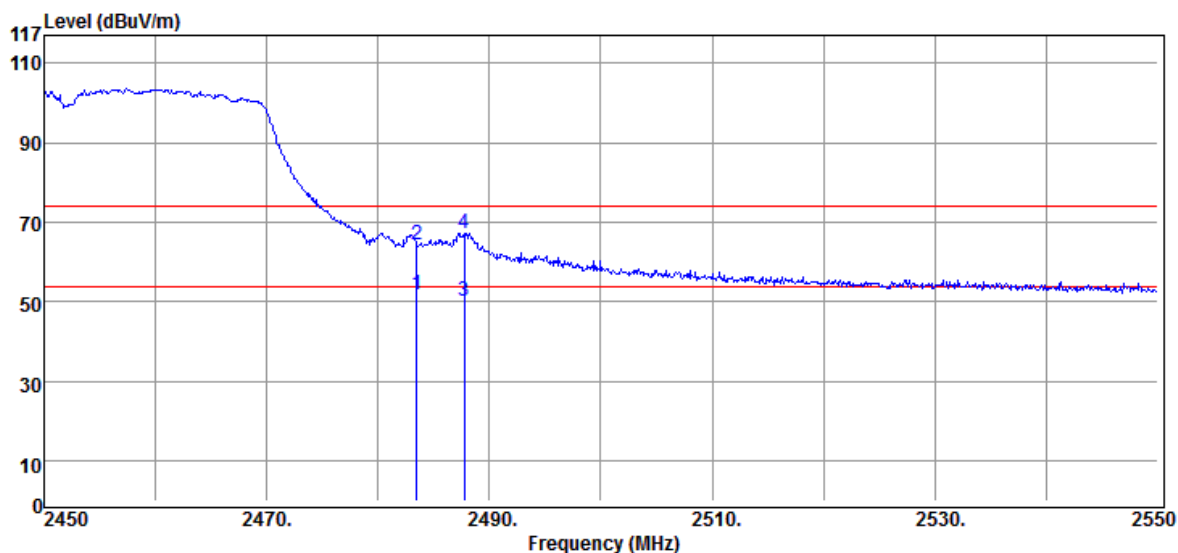
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2452 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-04
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	54.58	-2.72	51.86	54.00	-2.14
2483.50	Peak	66.97	-2.72	64.25	74.00	-9.75
2487.70	Average	52.92	-2.68	50.24	54.00	-3.76
2487.70	Peak	69.92	-2.68	67.24	74.00	-6.76

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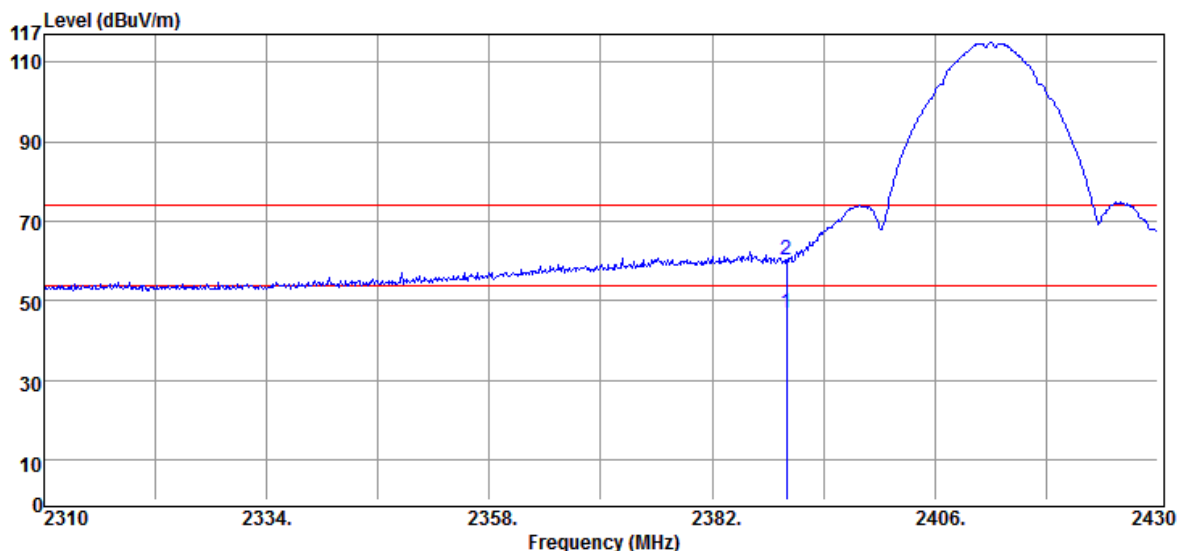
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Dipole Antenna

Project Number : T190321W03
Operation Band : 802.11b
Fundamental Frequency : 2412 MHz
Operation Mode : Bandedge CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-09
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	50.47	-3.33	47.14	54.00	-6.86
2390.00	Peak	63.53	-3.33	60.20	74.00	-13.80

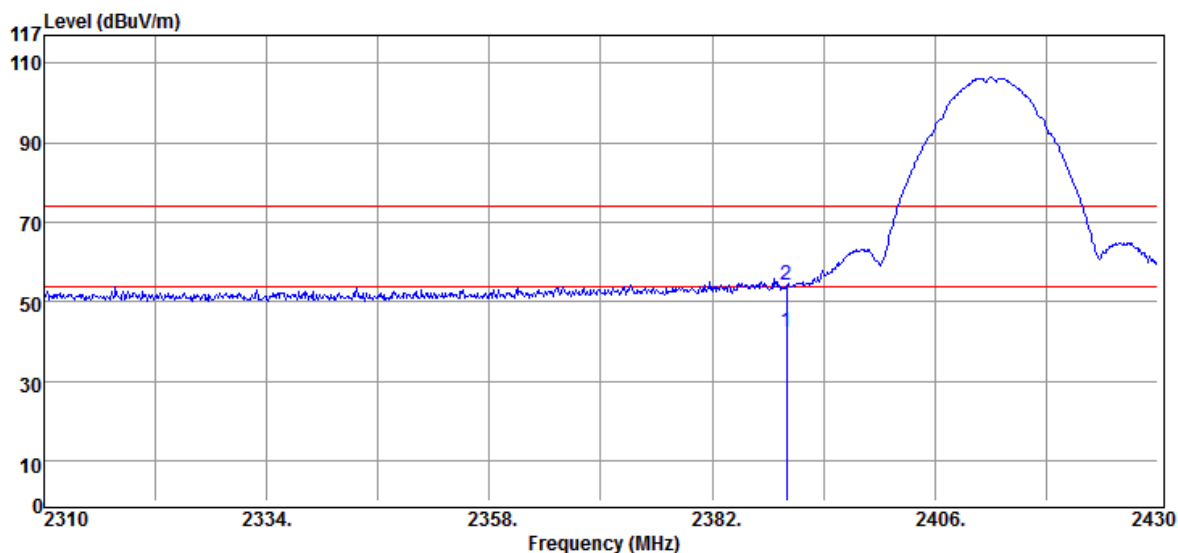
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Project Number : T190321W03
Operation Band :802.11b
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	45.76	-3.33	42.43	54.00	-11.57
2390.00	Peak	57.68	-3.33	54.35	74.00	-19.65

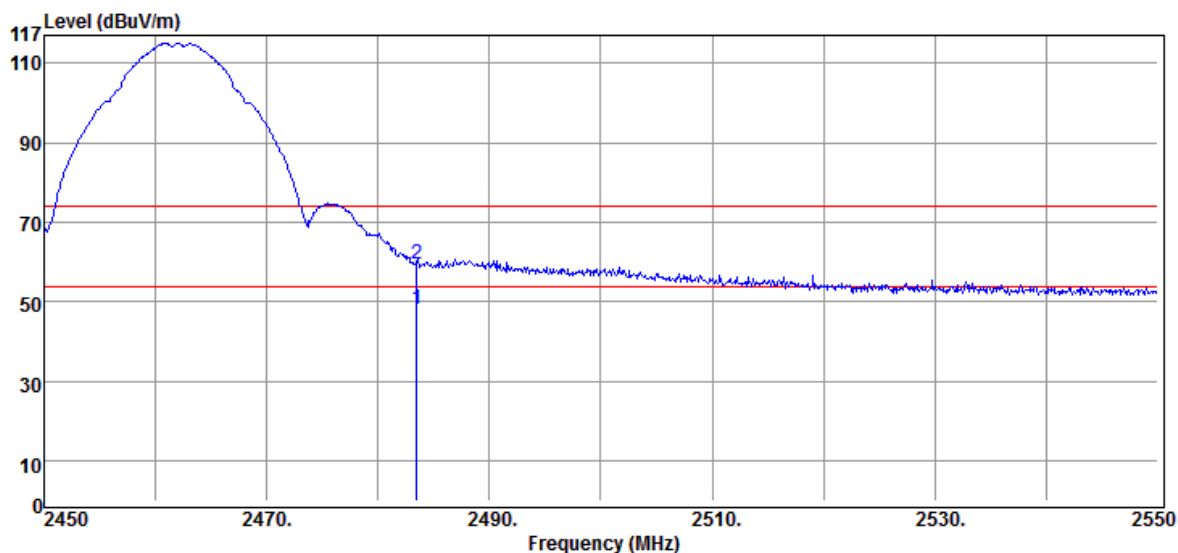
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Project Number : T190321W03
Operation Band :802.11b
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.05	-2.72	48.33	54.00	-5.67
2483.50	Peak	62.34	-2.72	59.62	74.00	-14.38

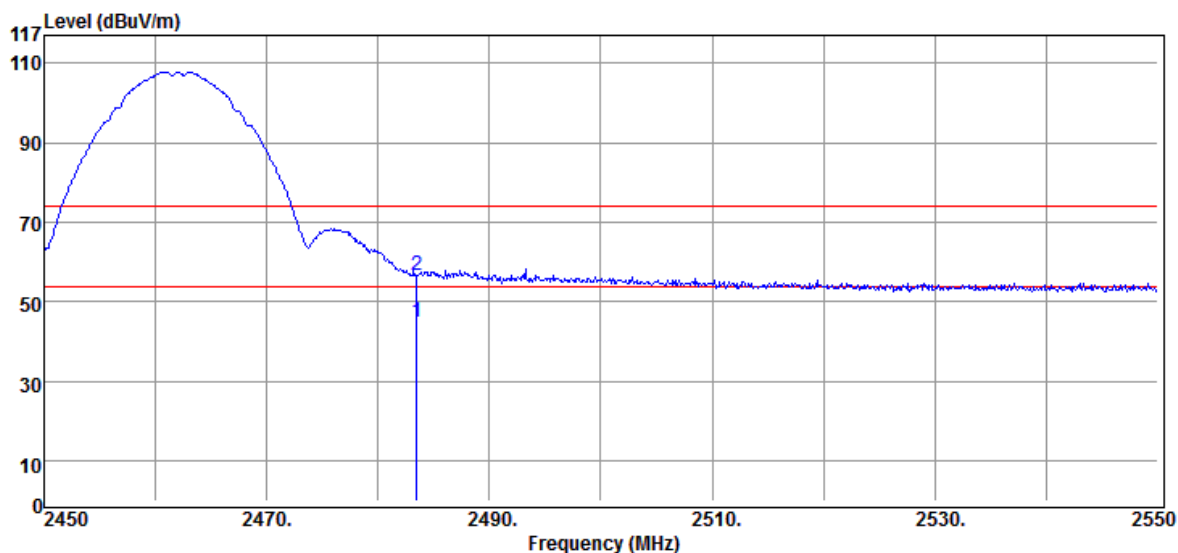
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Project Number : T190321W03
Operation Band :802.11b
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	47.50	-2.72	44.78	54.00	-9.22
2483.50	Peak	59.46	-2.72	56.74	74.00	-17.26

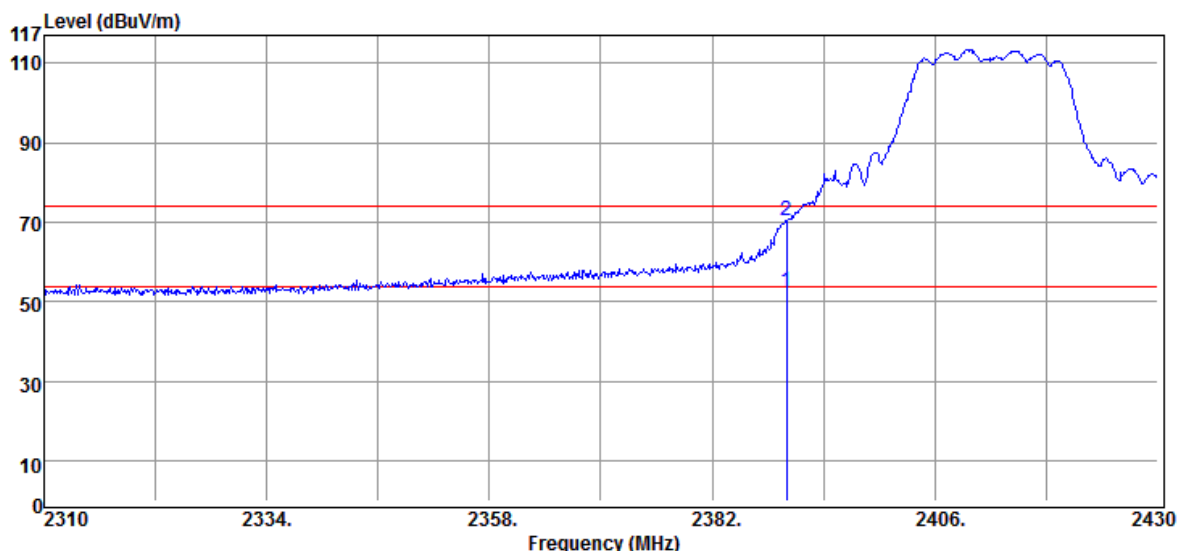
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	55.80	-3.33	52.47	54.00	-1.53
2390.00	Peak	73.97	-3.33	70.64	74.00	-3.36

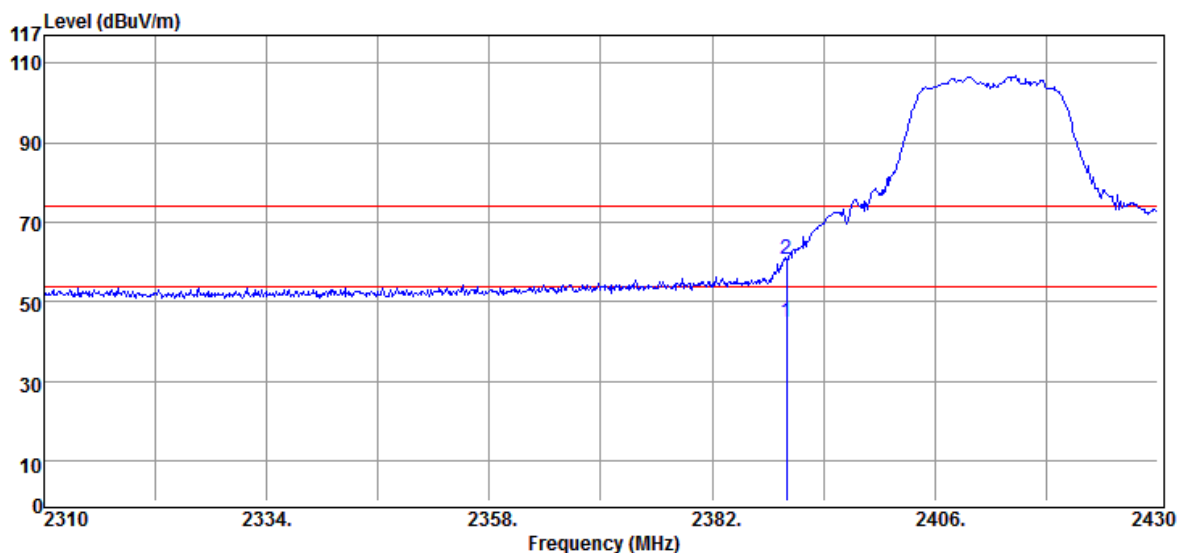
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	48.22	-3.33	44.89	54.00	-9.11
2390.00	Peak	63.96	-3.33	60.63	74.00	-13.37

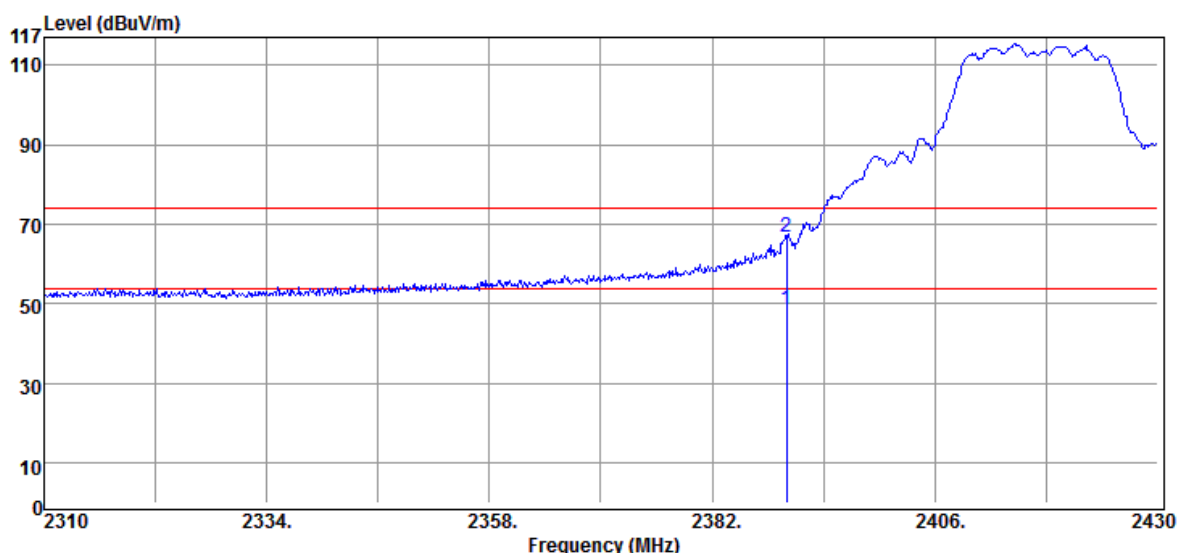
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2417 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	52.01	-3.33	48.68	54.00	-5.32
2390.00	Peak	70.21	-3.33	66.88	74.00	-7.12

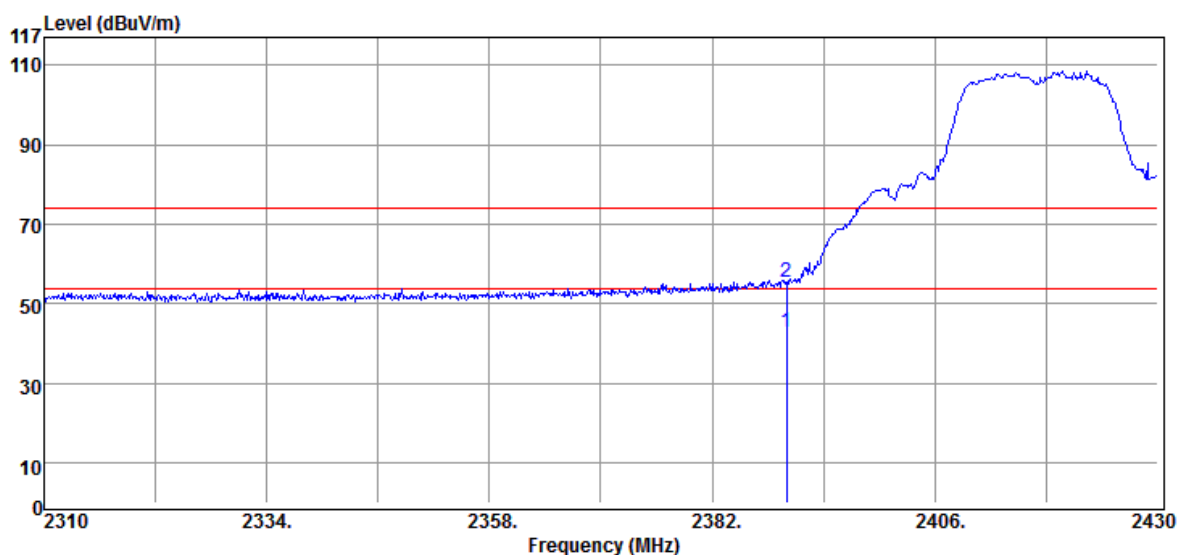
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2417 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2390.00	Average	46.32	-3.33	42.99	54.00	-11.01
2390.00	Peak	58.97	-3.33	55.64	74.00	-18.36

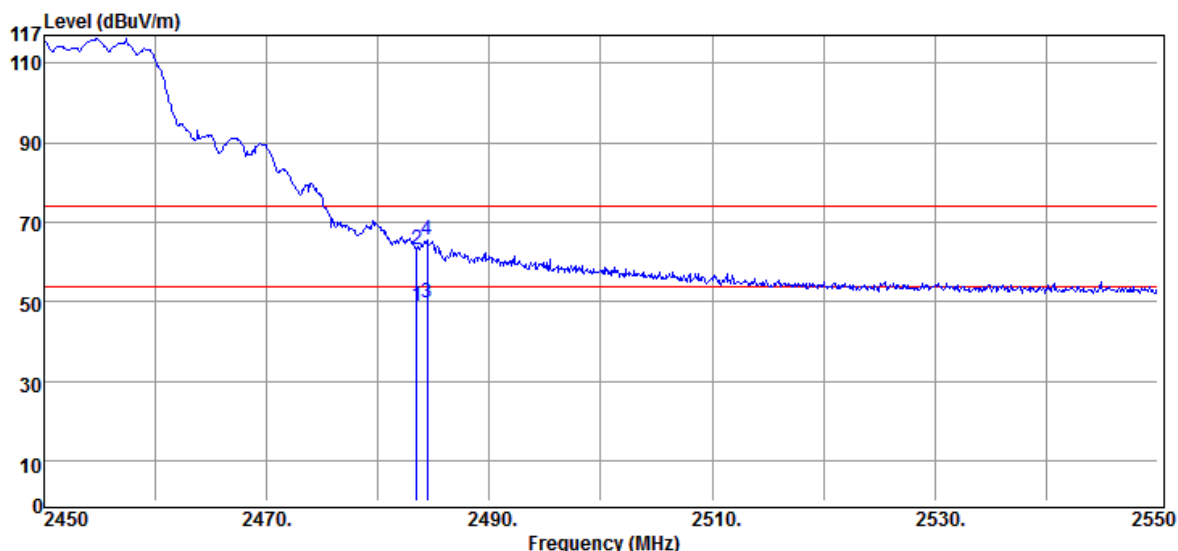
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2452 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.89	-2.72	49.17	54.00	-4.83
2483.50	Peak	66.03	-2.72	63.31	74.00	-10.69
2484.40	Average	52.67	-2.71	49.96	54.00	-4.04
2484.40	Peak	68.11	-2.71	65.40	74.00	-8.60

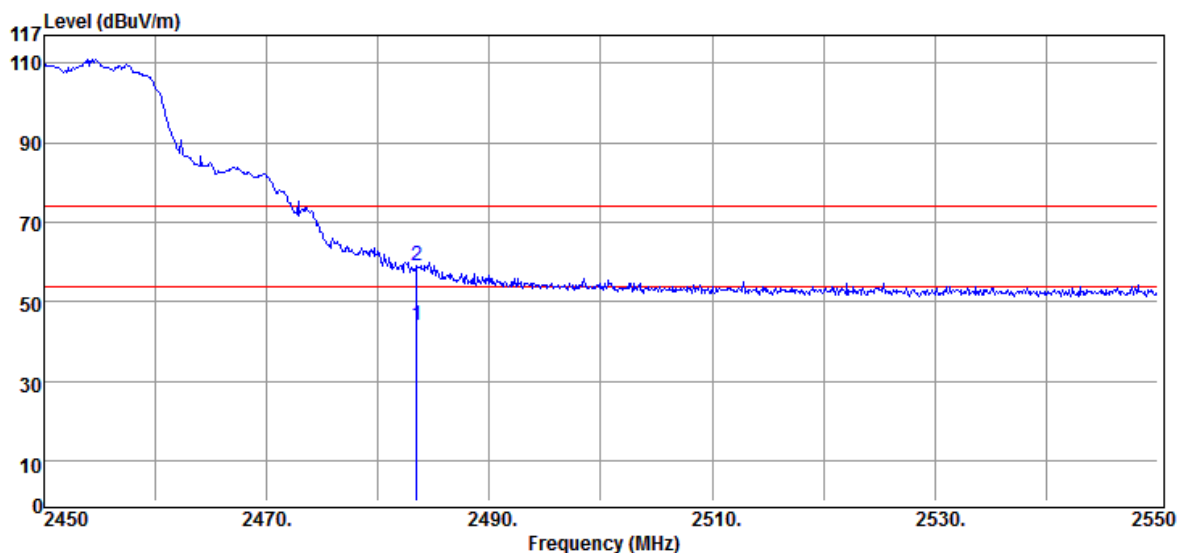
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2452 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	46.88	-2.72	44.16	54.00	-9.84
2483.50	Peak	61.87	-2.72	59.15	74.00	-14.85

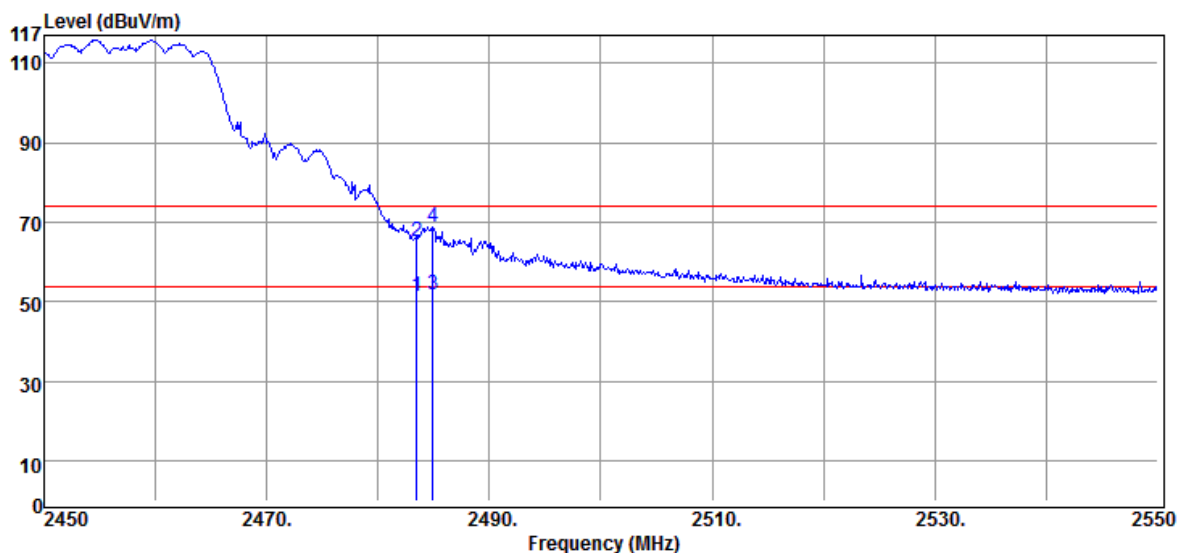
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2457 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	54.09	-2.72	51.37	54.00	-2.63
2483.50	Peak	67.86	-2.72	65.14	74.00	-8.86
2484.90	Average	54.55	-2.70	51.85	54.00	-2.15
2484.90	Peak	71.35	-2.70	68.65	74.00	-5.35

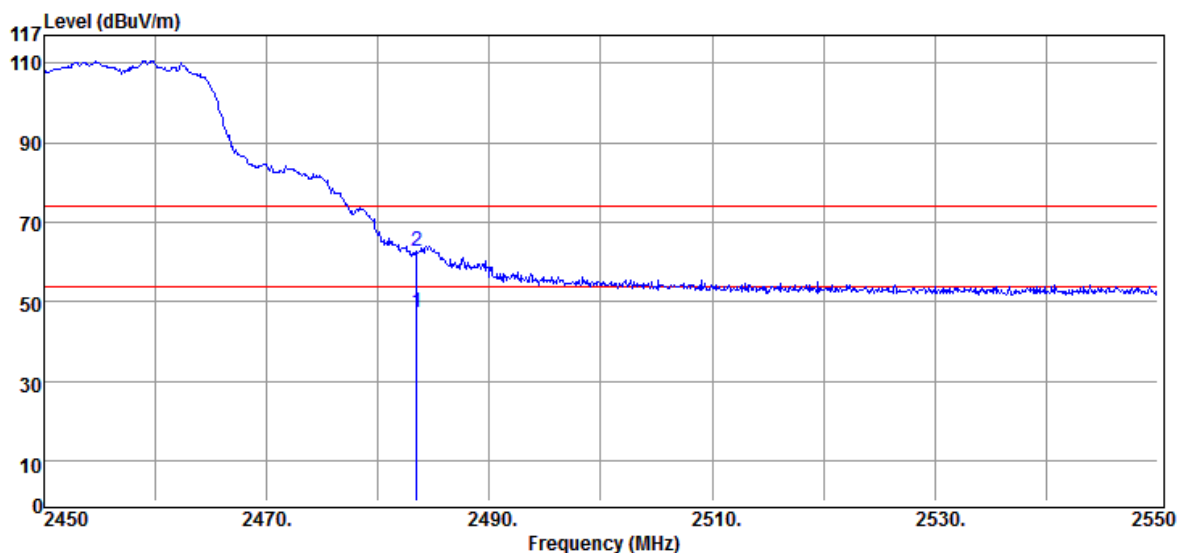
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2457 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	50.08	-2.72	47.36	54.00	-6.64
2483.50	Peak	65.47	-2.72	62.75	74.00	-11.25

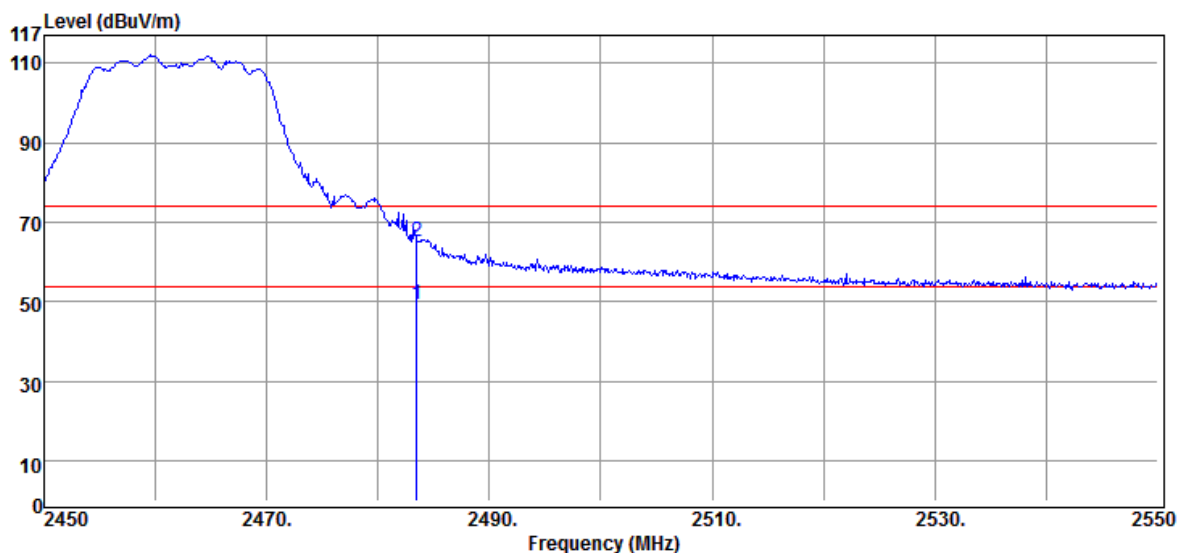
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	52.02	-2.72	49.30	54.00	-4.70
2483.50	Peak	68.08	-2.72	65.36	74.00	-8.64

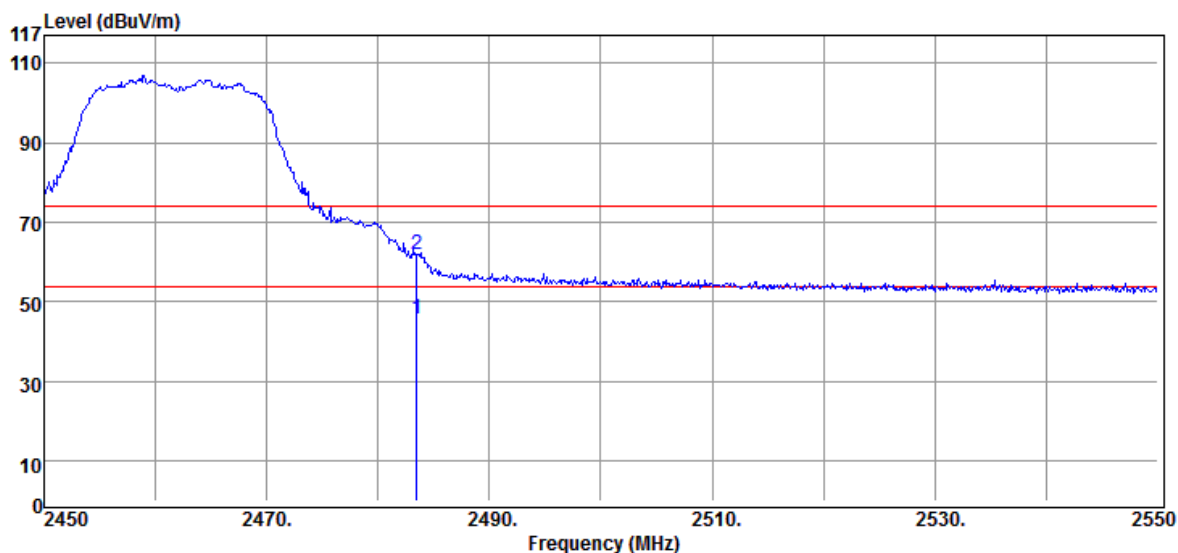
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	48.31	-2.72	45.59	54.00	-8.41
2483.50	Peak	64.60	-2.72	61.88	74.00	-12.12

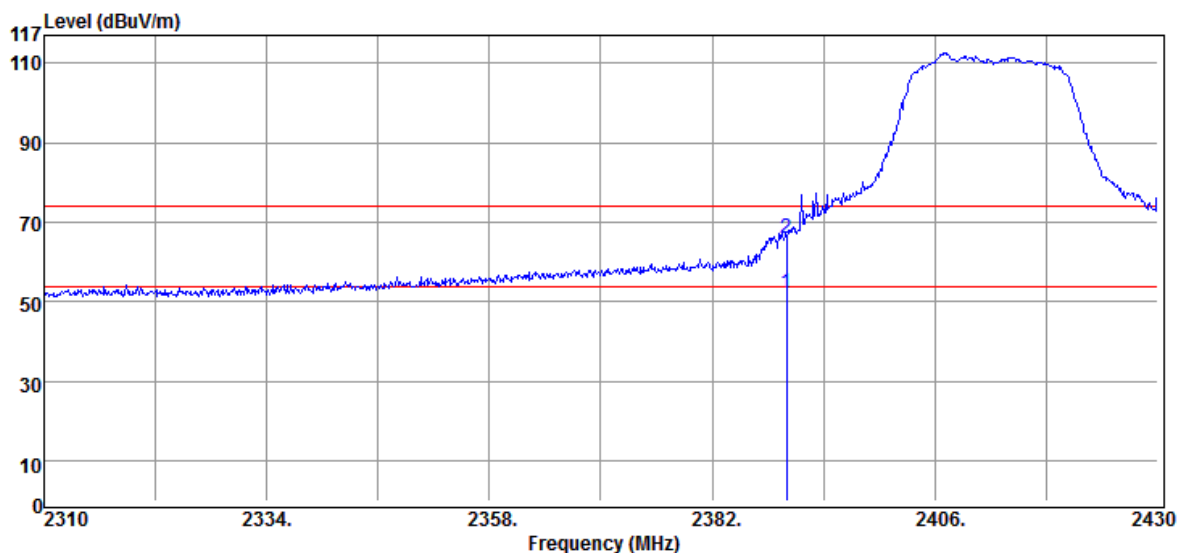
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	55.45	-3.33	52.12	54.00	-1.88
2390.00	Peak	69.23	-3.33	65.90	74.00	-8.10

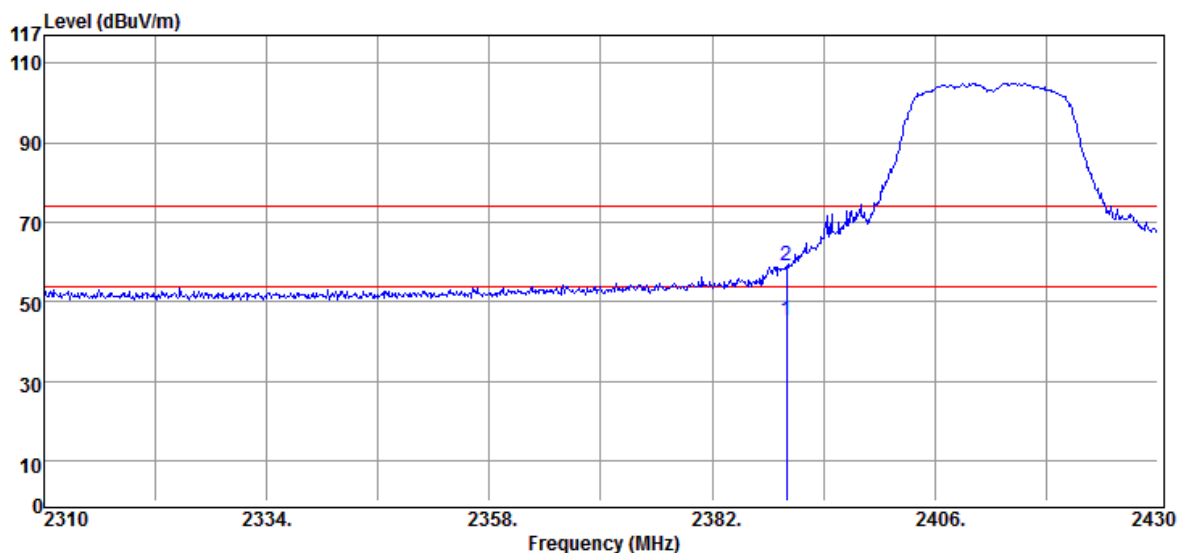
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2390.00	Average	48.52	-3.33	45.19	54.00	-8.81
2390.00	Peak	62.58	-3.33	59.25	74.00	-14.75

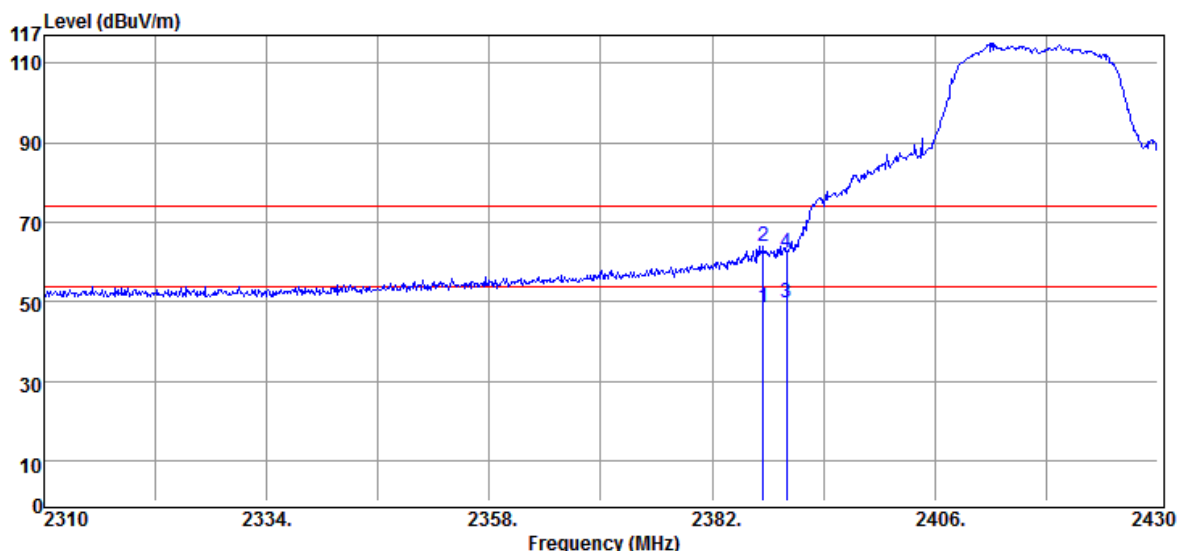
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2417 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2387.52	Average	51.93	-3.33	48.60	54.00	-5.40
2387.52	Peak	67.35	-3.33	64.02	74.00	-9.98
2390.00	Average	53.03	-3.33	49.70	54.00	-4.30
2390.00	Peak	65.83	-3.33	62.50	74.00	-11.50

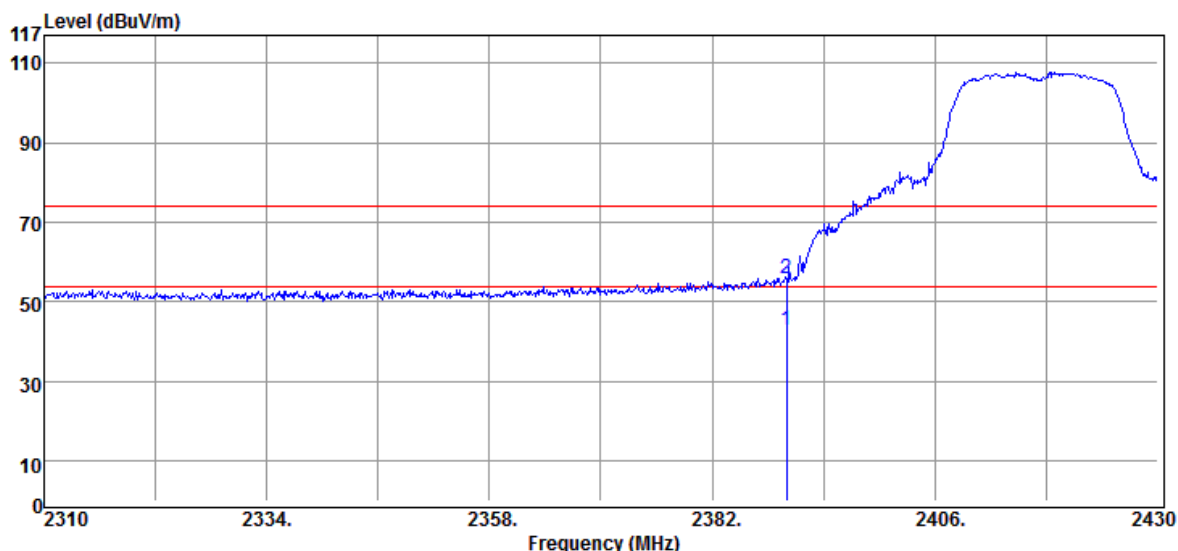
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2417 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	46.26	-3.33	42.93	54.00	-11.07
2390.00	Peak	59.30	-3.33	55.97	74.00	-18.03

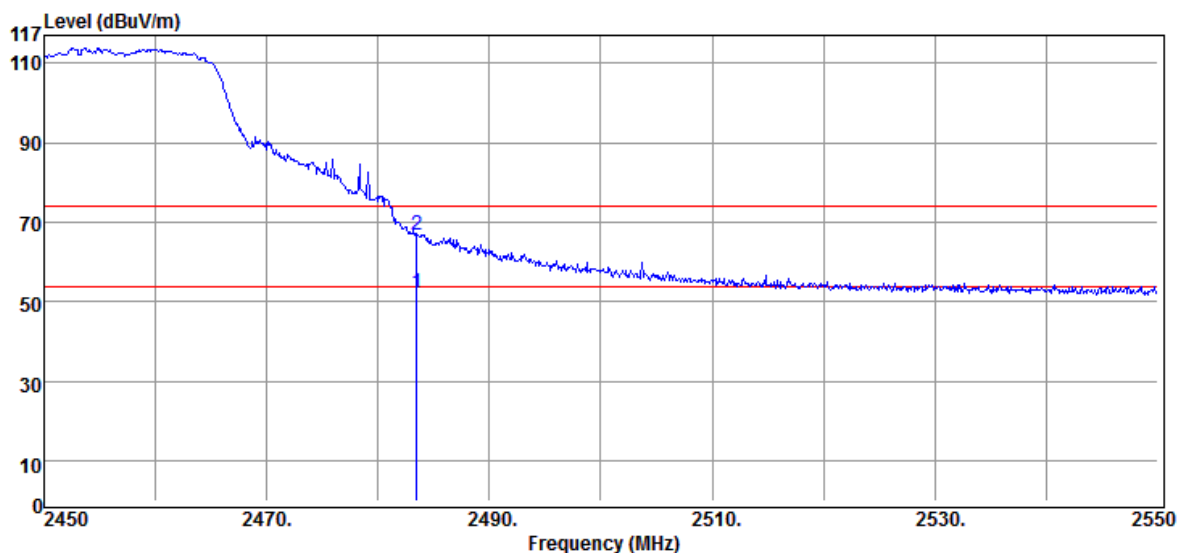
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2457 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	55.01	-2.72	52.29	54.00	-1.71
2483.50	Peak	69.48	-2.72	66.76	74.00	-7.24

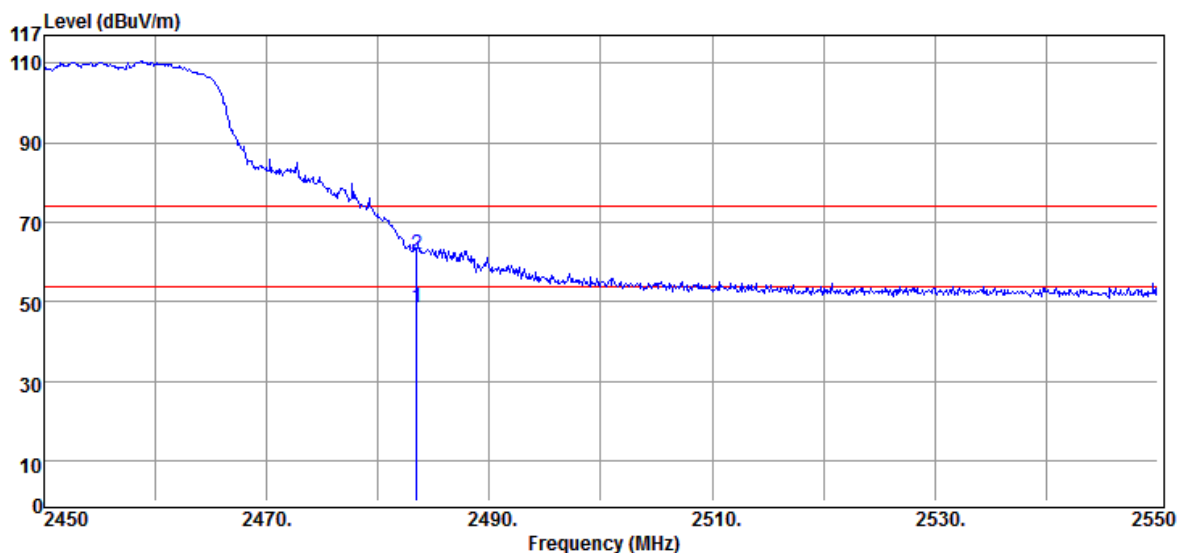
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2457 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	51.14	-2.72	48.42	54.00	-5.58
2483.50	Peak	64.74	-2.72	62.02	74.00	-11.98

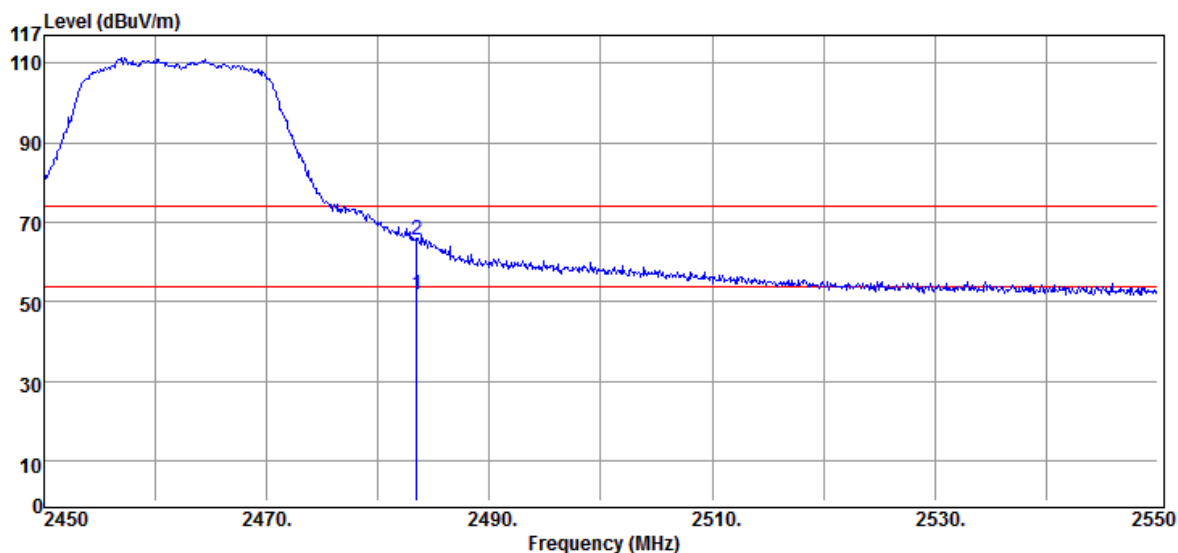
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	54.69	-2.72	51.97	54.00	-2.03
2483.50	Peak	68.41	-2.72	65.69	74.00	-8.31

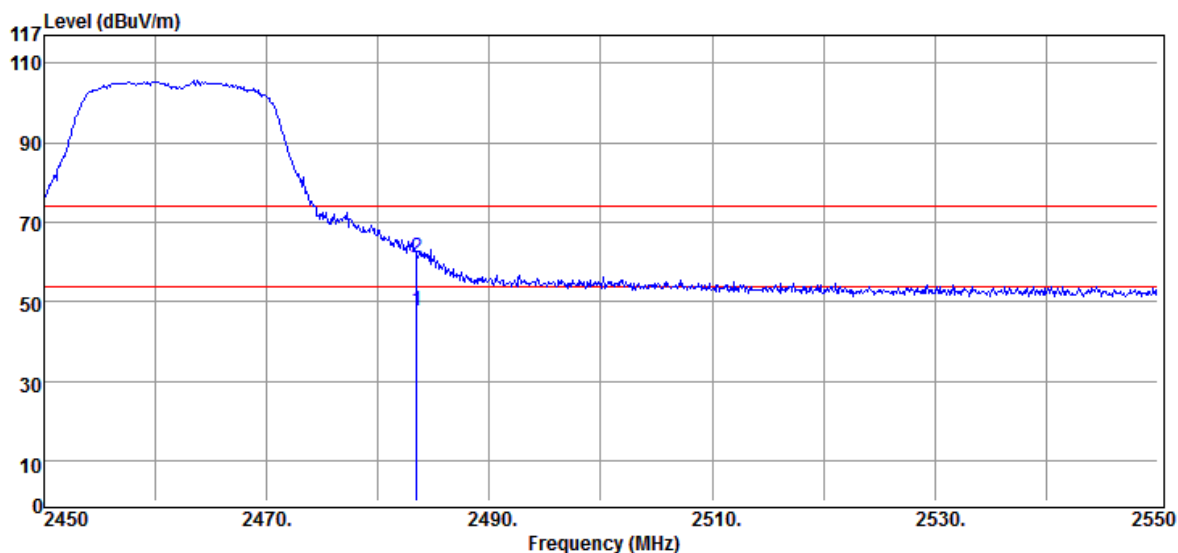
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Project Number : T190321W03
Operation Band :802.11n20
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.50	Average	50.47	-2.72	47.75	54.00	-6.25
2483.50	Peak	63.99	-2.72	61.27	74.00	-12.73

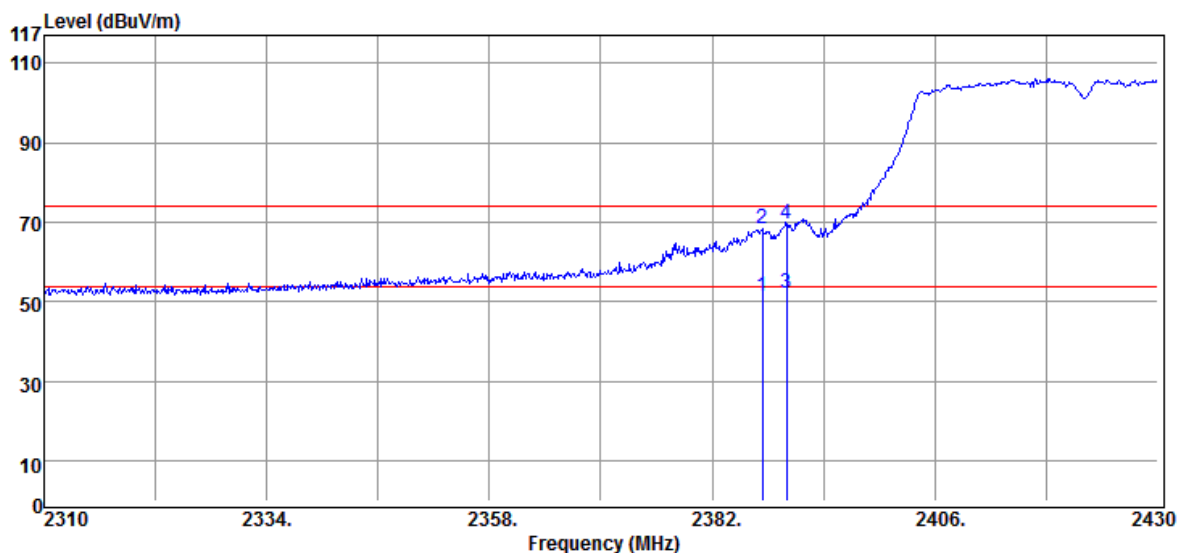
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2422 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2387.40	Average	54.80	-3.32	51.48	54.00	-2.52
2387.40	Peak	71.55	-3.32	68.23	74.00	-5.77
2390.00	Average	55.52	-3.33	52.19	54.00	-1.81
2390.00	Peak	72.98	-3.33	69.65	74.00	-4.35

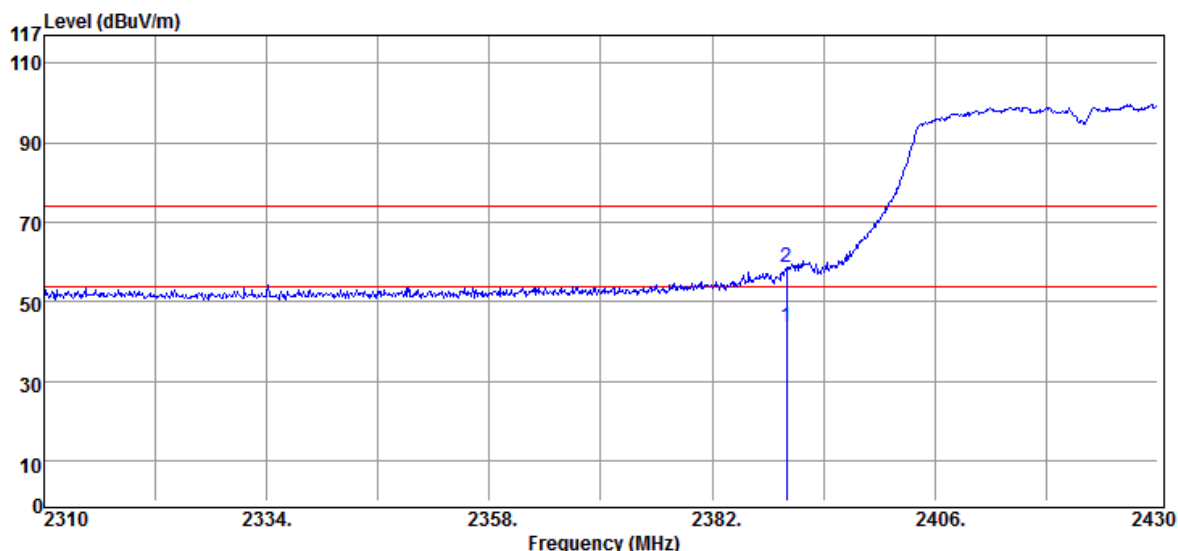
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2422 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2390.00	Average	47.04	-3.33	43.71	54.00	-10.29
2390.00	Peak	62.13	-3.33	58.80	74.00	-15.20

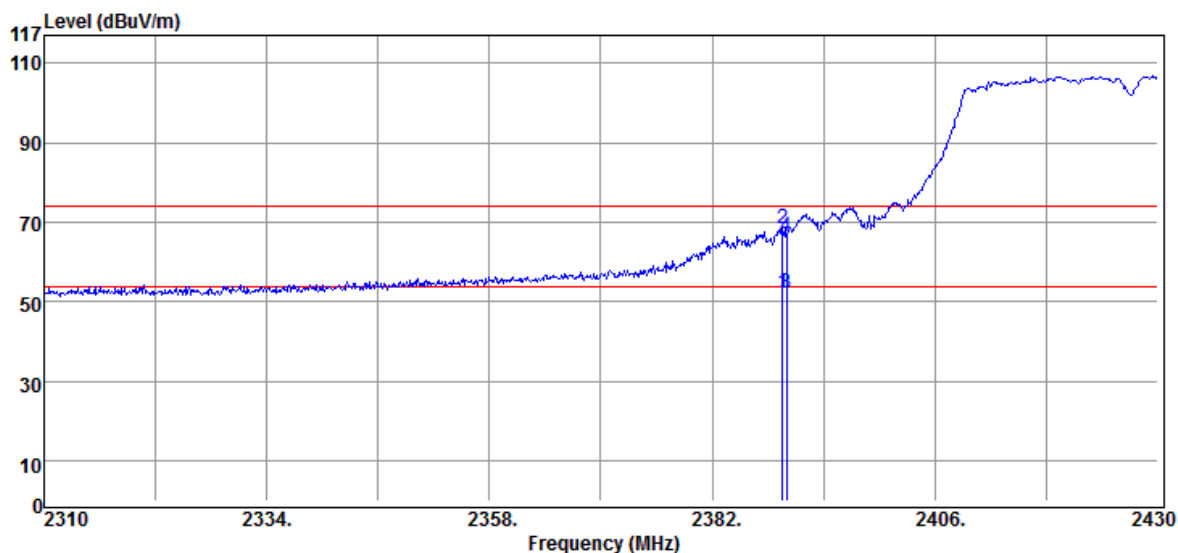
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2427 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2389.56	Average	55.67	-3.33	52.34	54.00	-1.66
2389.56	Peak	71.76	-3.33	68.43	74.00	-5.57
2390.00	Average	55.74	-3.33	52.41	54.00	-1.59
2390.00	Peak	69.86	-3.33	66.53	74.00	-7.47

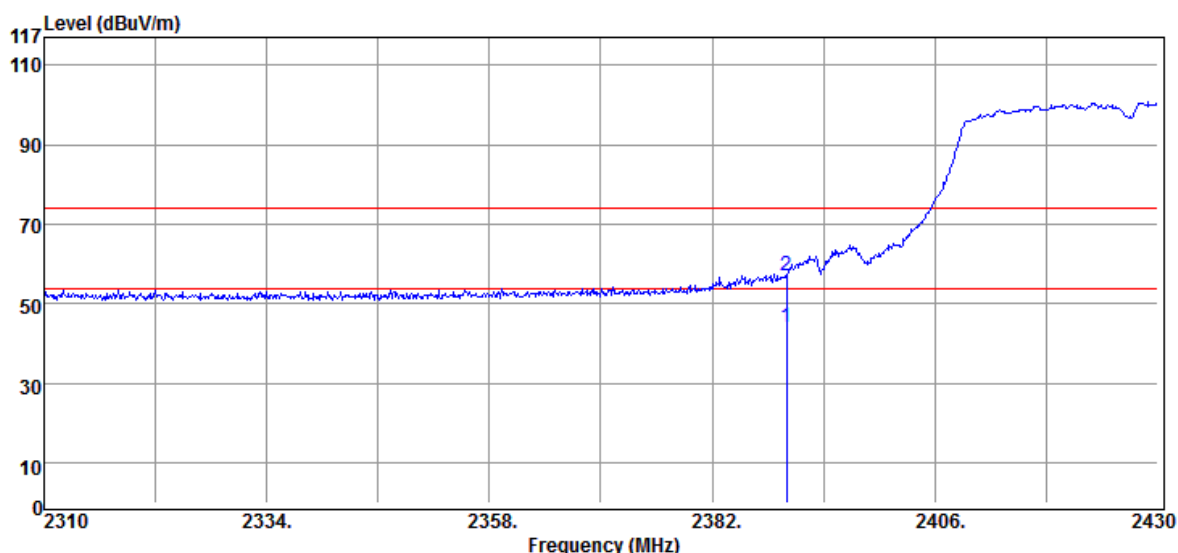
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2427 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2390.00	Average	47.43	-3.33	44.10	54.00	-9.90
2390.00	Peak	60.43	-3.33	57.10	74.00	-16.90

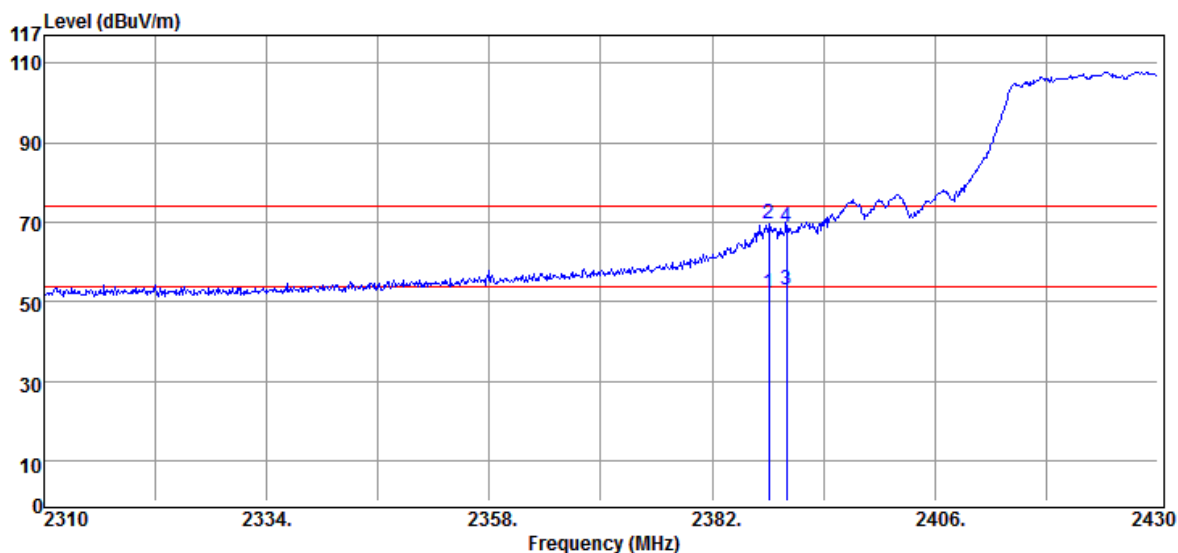
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2432 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2388.12	Average	55.69	-3.33	52.36	54.00	-1.64
2388.12	Peak	72.82	-3.33	69.49	74.00	-4.51
2390.00	Average	56.23	-3.33	52.90	54.00	-1.10
2390.00	Peak	72.24	-3.33	68.91	74.00	-5.09

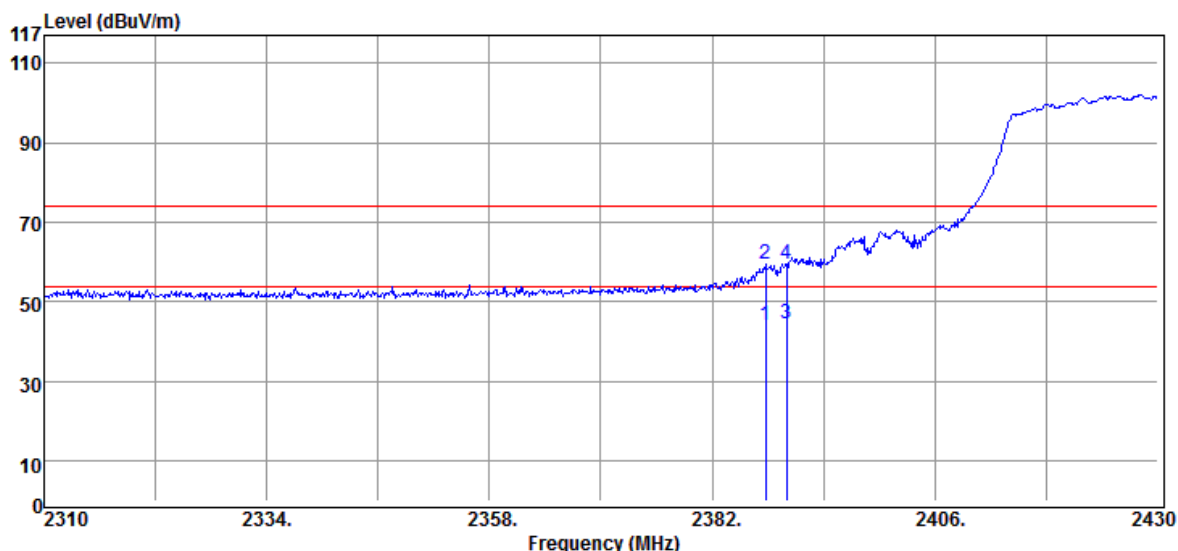
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2432 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2387.76	Average	47.26	-3.33	43.93	54.00	-10.07
2387.76	Peak	62.69	-3.33	59.36	74.00	-14.64
2390.00	Average	47.91	-3.33	44.58	54.00	-9.42
2390.00	Peak	63.02	-3.33	59.69	74.00	-14.31

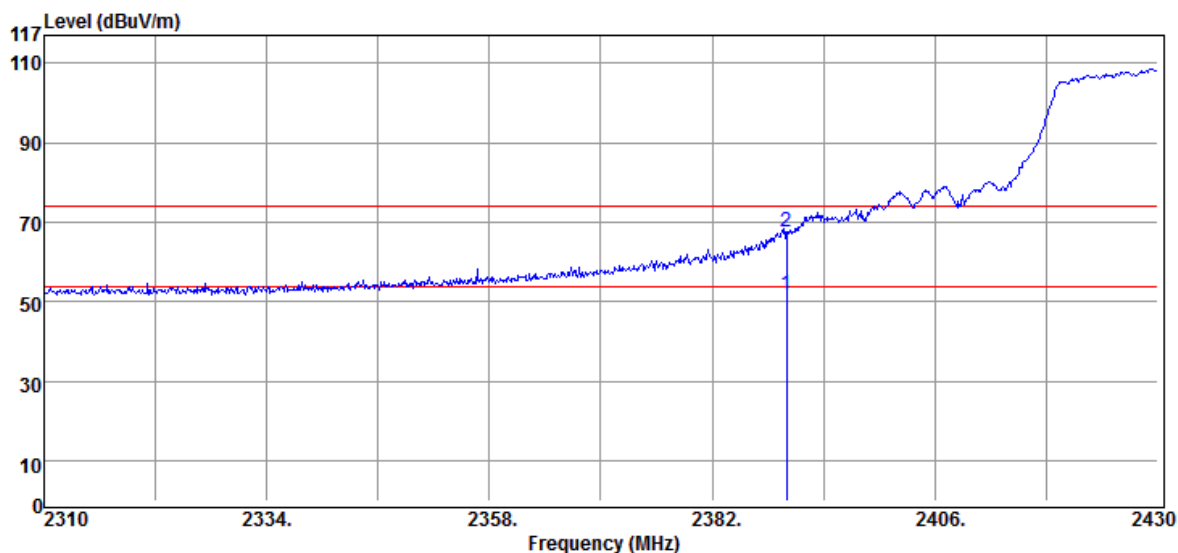
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2390.00	Average	55.32	-3.33	51.99	54.00	-2.01
2390.00	Peak	70.77	-3.33	67.44	74.00	-6.56

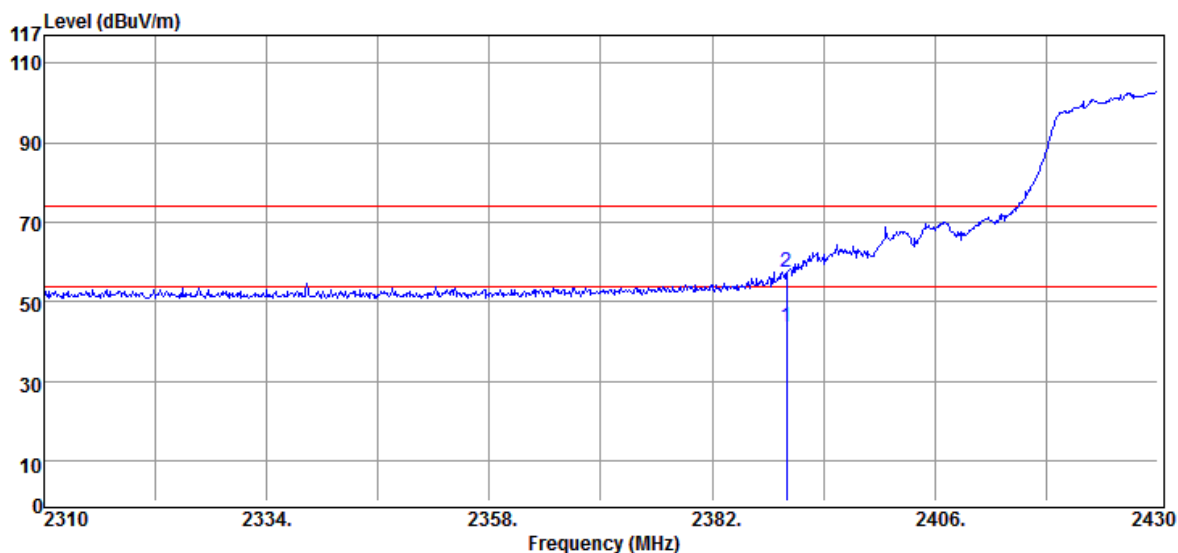
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	46.88	-3.33	43.55	54.00	-10.45
2390.00	Peak	60.81	-3.33	57.48	74.00	-16.52

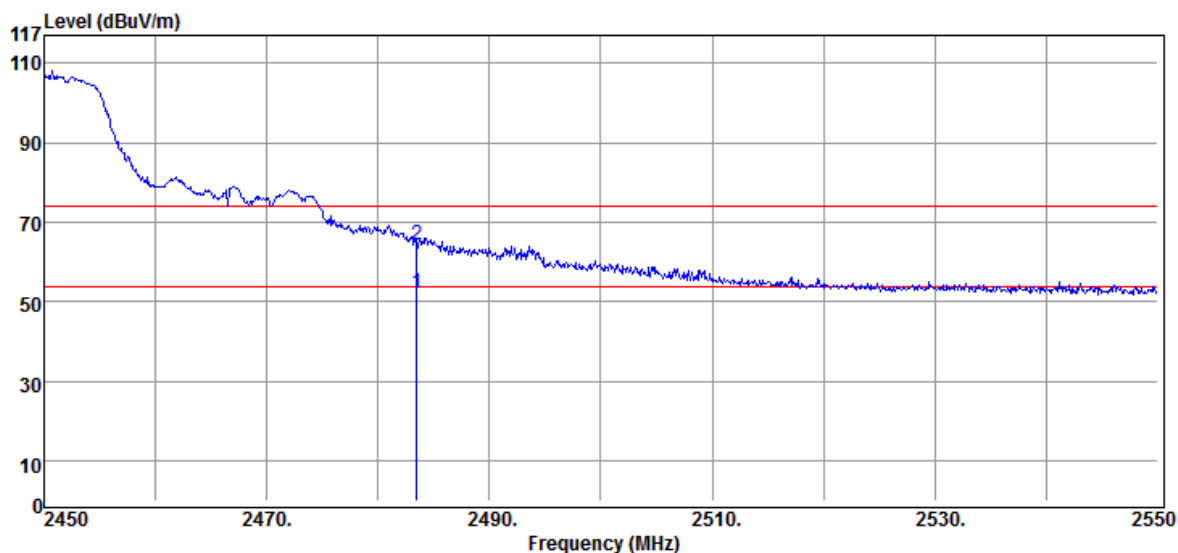
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	54.82	-2.72	52.10	54.00	-1.90
2483.50	Peak	67.26	-2.72	64.54	74.00	-9.46

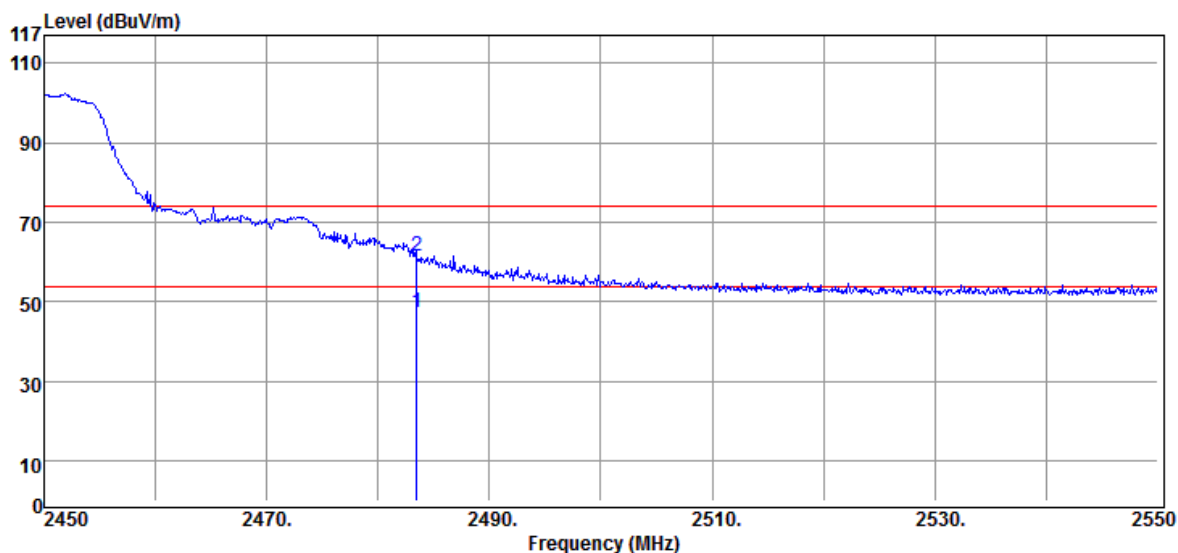
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	50.27	-2.72	47.55	54.00	-6.45
2483.50	Peak	64.41	-2.72	61.69	74.00	-12.31

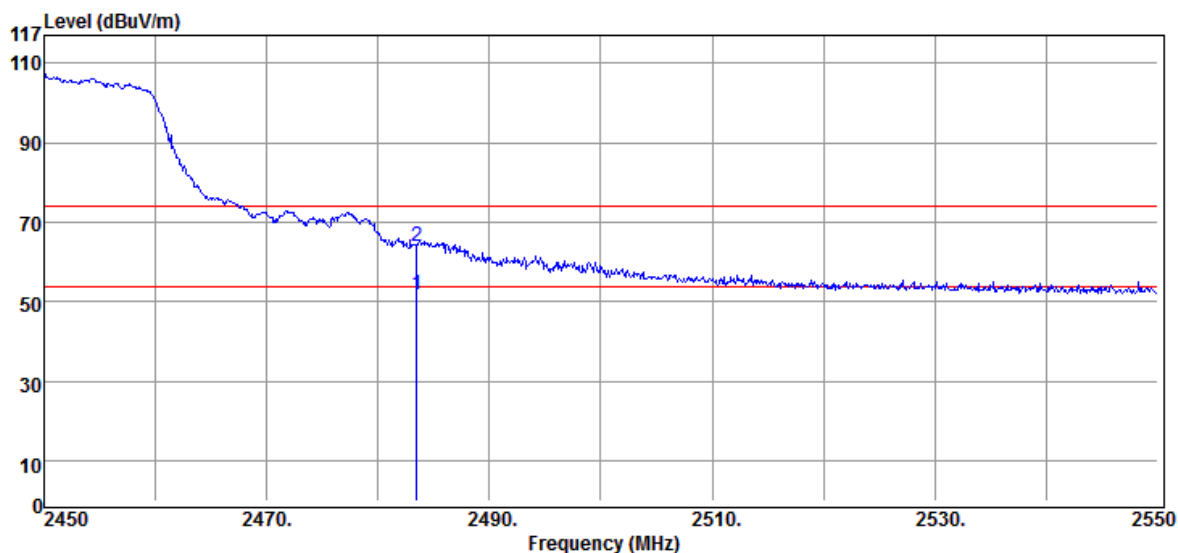
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2442 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	54.59	-2.72	51.87	54.00	-2.13
2483.50	Peak	66.85	-2.72	64.13	74.00	-9.87

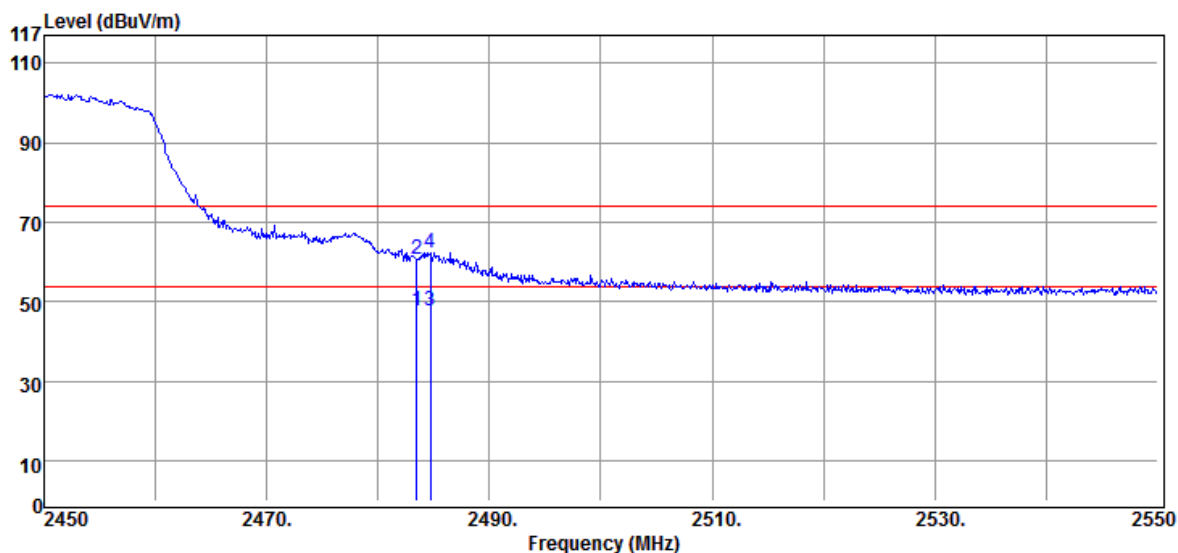
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2442 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	50.58	-2.72	47.86	54.00	-6.14
2483.50	Peak	63.34	-2.72	60.62	74.00	-13.38
2484.70	Average	50.40	-2.70	47.70	54.00	-6.30
2484.70	Peak	65.15	-2.70	62.45	74.00	-11.55

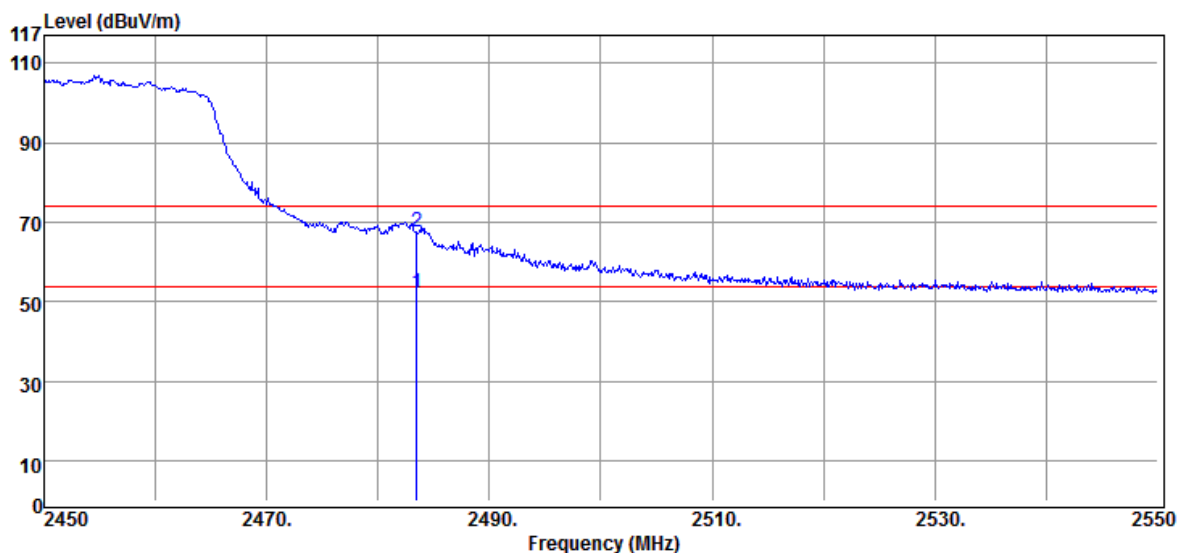
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	55.11	-2.72	52.39	54.00	-1.61
2483.50	Peak	70.23	-2.72	67.51	74.00	-6.49

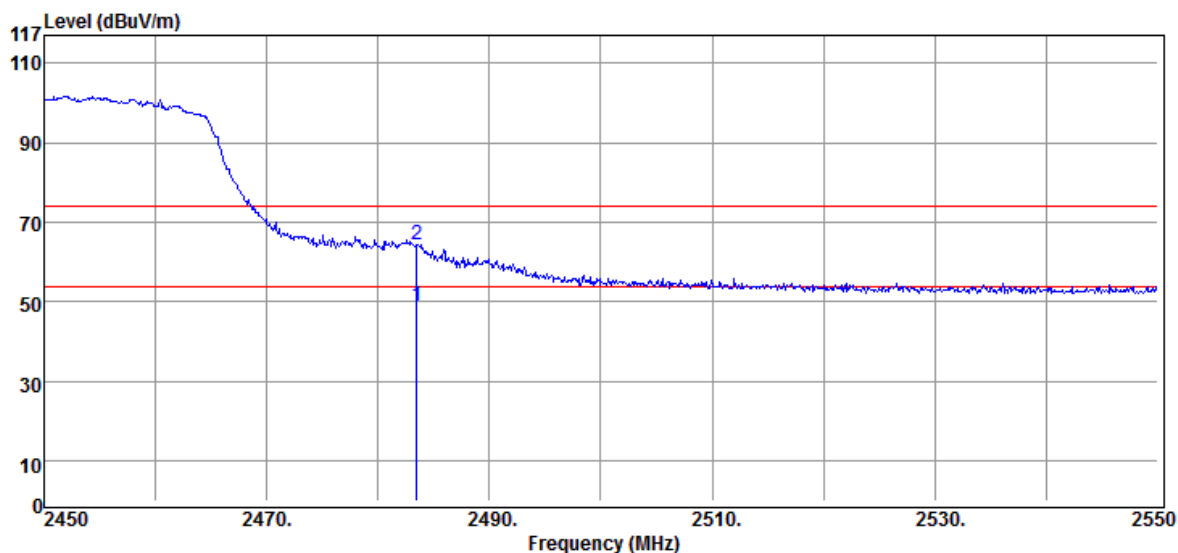
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	51.51	-2.72	48.79	54.00	-5.21
2483.50	Peak	67.03	-2.72	64.31	74.00	-9.69

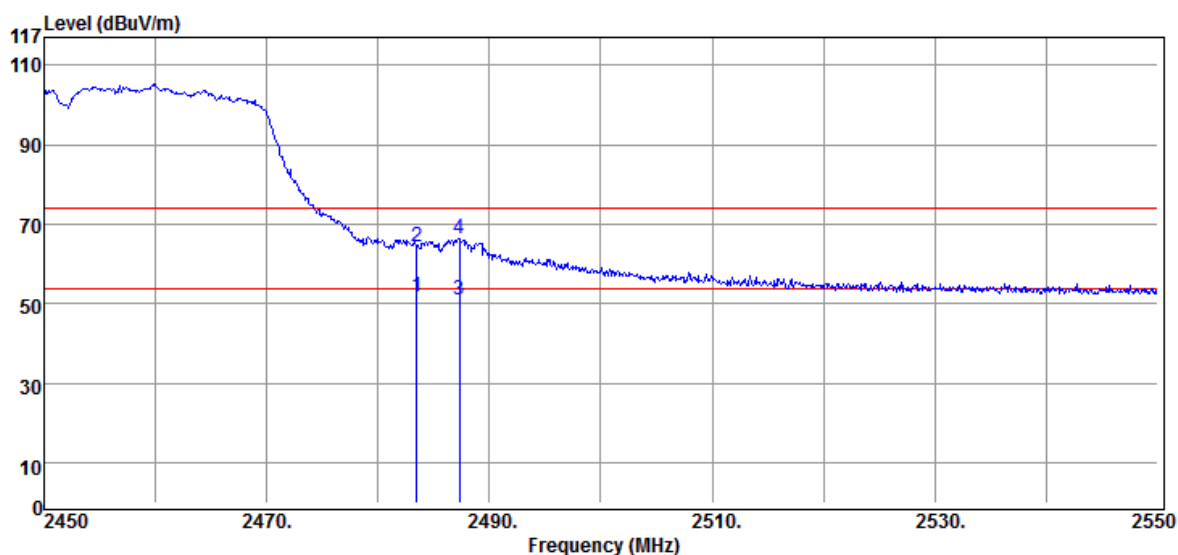
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2452 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	54.69	-2.72	51.97	54.00	-2.03
2483.50	Peak	66.99	-2.72	64.27	74.00	-9.73
2487.30	Average	53.55	-2.69	50.86	54.00	-3.14
2487.30	Peak	69.26	-2.69	66.57	74.00	-7.43

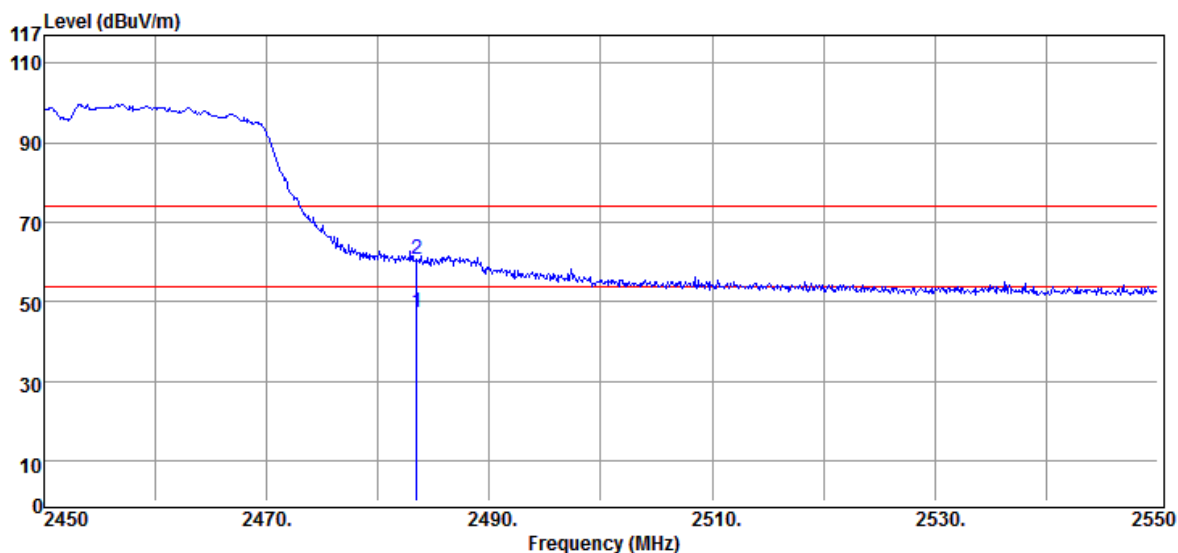
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2452 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2019-04-09
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	50.07	-2.72	47.35	54.00	-6.65
2483.50	Peak	63.28	-2.72	60.56	74.00	-13.44

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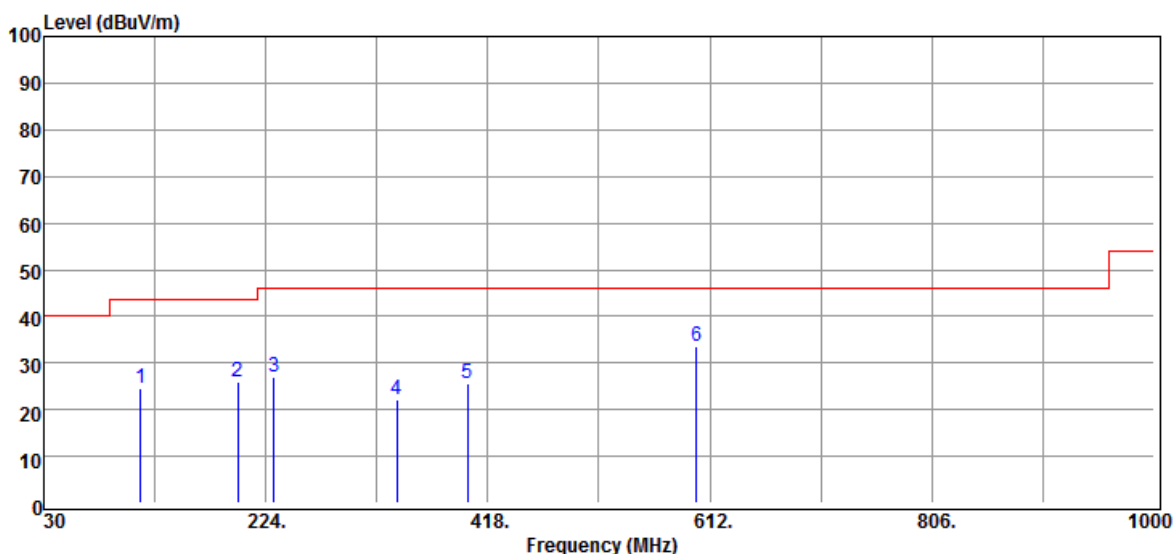
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Radiated Spurious Emission Measurement Result Below 1GHz Worst-Case Data:

PCB Antenna

Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
114.39	Peak	34.02	-9.35	24.67	43.50	-18.83
199.75	Peak	35.10	-9.29	25.81	43.50	-17.69
230.79	Peak	37.77	-10.80	26.97	46.00	-19.03
338.46	Peak	29.35	-7.10	22.25	46.00	-23.75
400.54	Peak	31.32	-5.64	25.68	46.00	-20.32
600.36	Peak	35.08	-1.65	33.43	46.00	-12.57

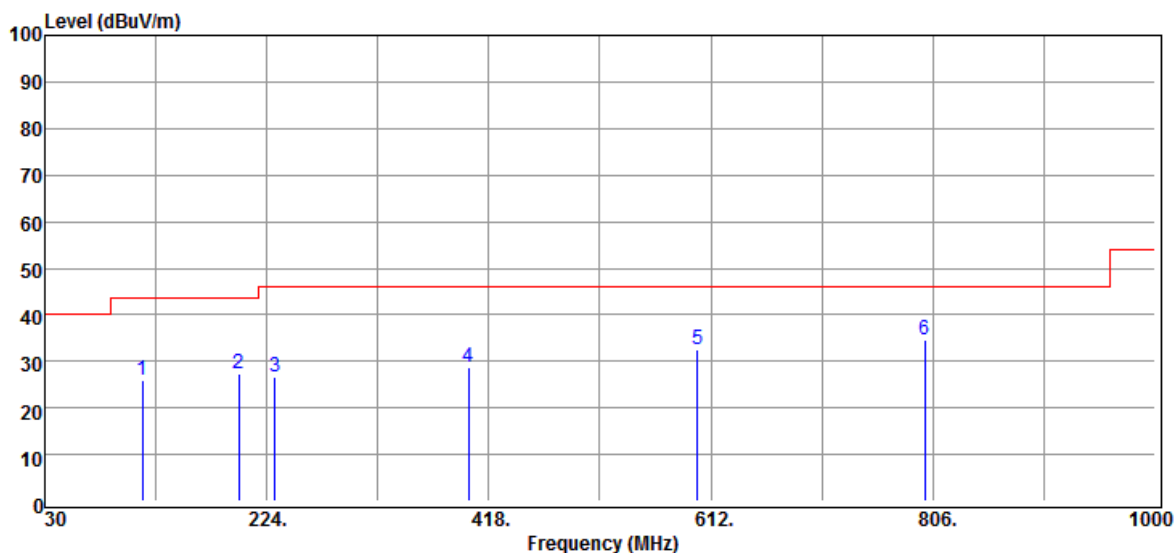
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Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
115.36	Peak	35.32	-9.27	26.05	43.50	-17.45
199.75	Peak	36.74	-9.29	27.45	43.50	-16.05
230.79	Peak	37.32	-10.80	26.52	46.00	-19.48
400.54	Peak	34.46	-5.64	28.82	46.00	-17.18
600.36	Peak	34.29	-1.65	32.64	46.00	-13.36
799.21	Peak	33.19	1.52	34.71	46.00	-11.29

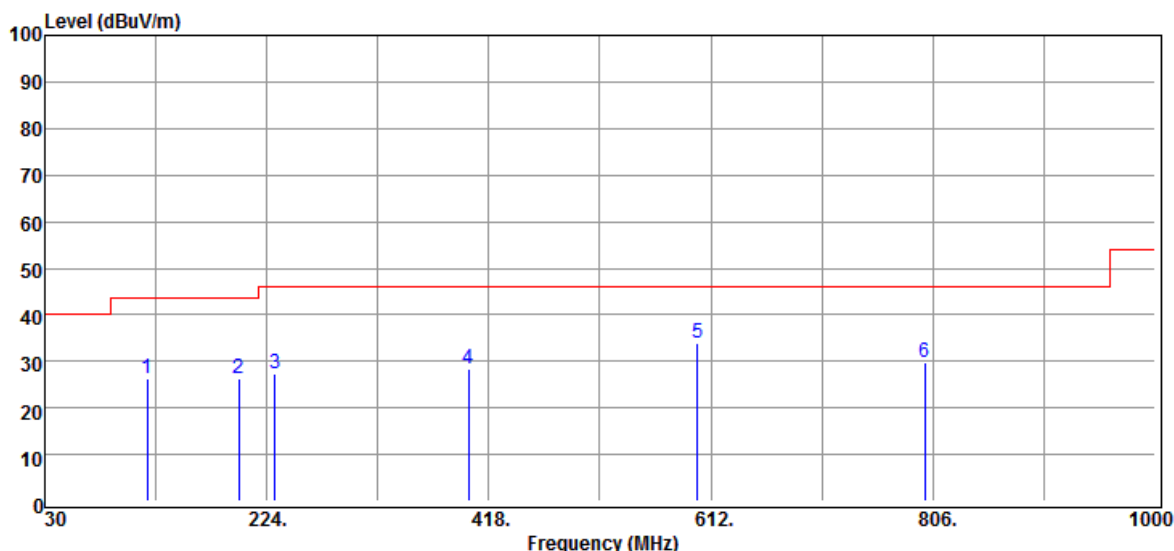
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
119.24	Peak	35.18	-8.94	26.24	43.50	-17.26
199.75	Peak	35.60	-9.29	26.31	43.50	-17.19
230.79	Peak	38.29	-10.80	27.49	46.00	-18.51
400.54	Peak	33.91	-5.64	28.27	46.00	-17.73
600.36	Peak	35.71	-1.65	34.06	46.00	-11.94
799.21	Peak	28.10	1.52	29.62	46.00	-16.38

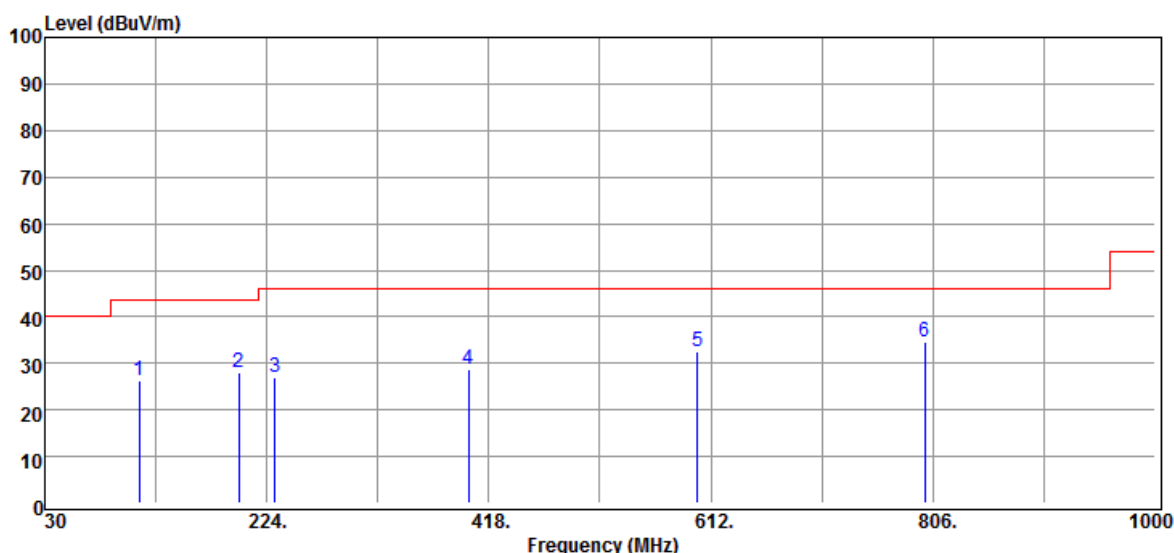
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
112.45	Peak	35.85	-9.65	26.20	43.50	-17.30
199.75	Peak	37.20	-9.29	27.91	43.50	-15.59
230.79	Peak	37.78	-10.80	26.98	46.00	-19.02
400.54	Peak	34.20	-5.64	28.56	46.00	-17.44
600.36	Peak	34.28	-1.65	32.63	46.00	-13.37
799.21	Peak	33.14	1.52	34.66	46.00	-11.34

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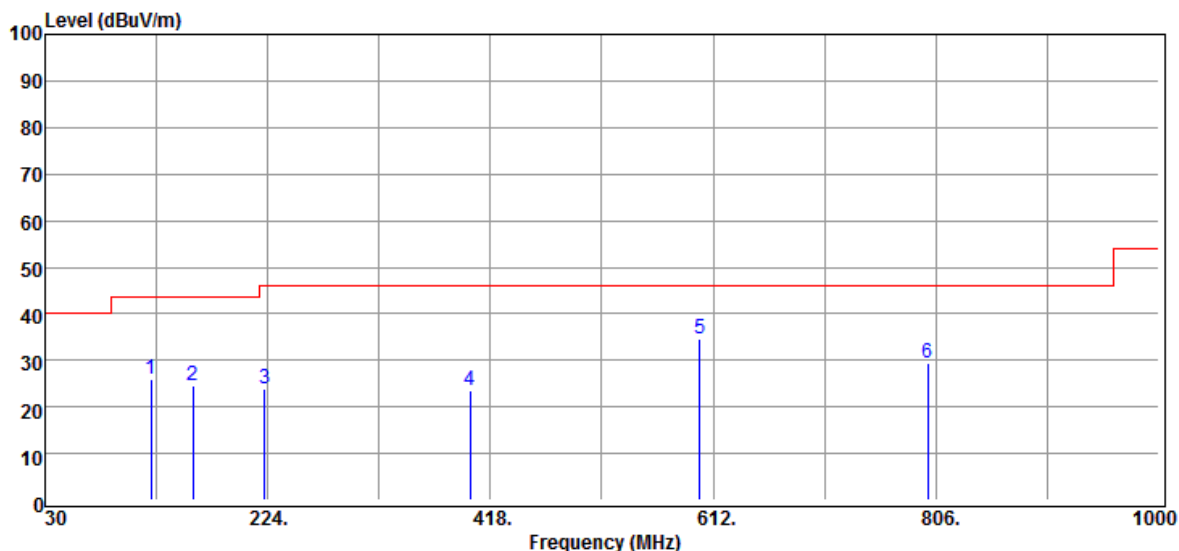
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Dipole Antenna

Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
122.15	Peak	34.65	-8.78	25.87	43.50	-17.63
159.01	Peak	34.51	-9.95	24.56	43.50	-18.94
221.09	Peak	35.10	-11.31	23.79	46.00	-22.21
400.54	Peak	29.19	-5.64	23.55	46.00	-22.45
600.36	Peak	36.32	-1.65	34.67	46.00	-11.33
799.21	Peak	28.00	1.52	29.52	46.00	-16.48

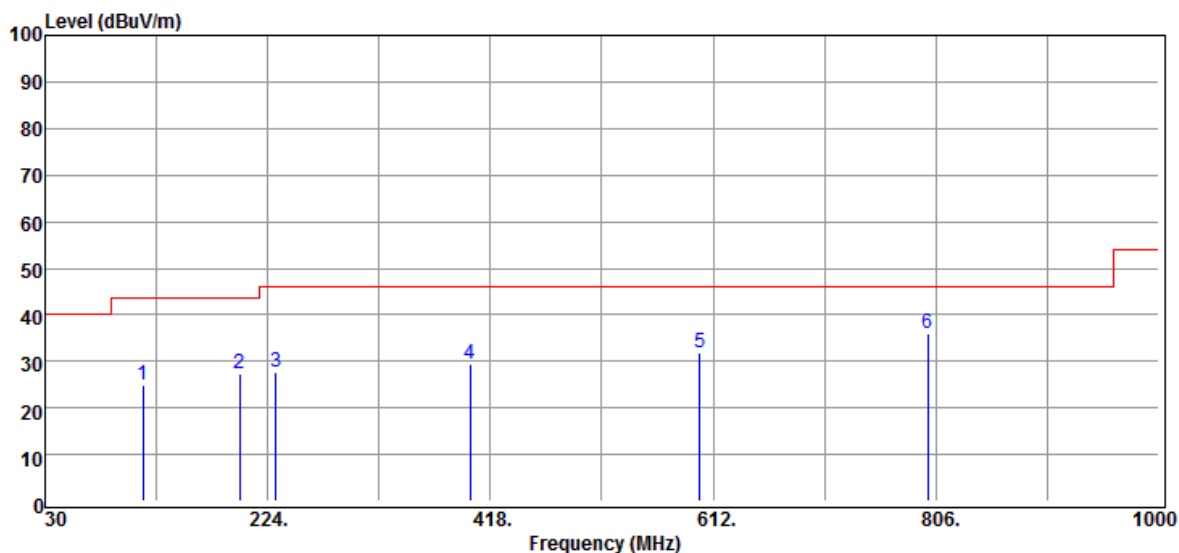
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Project Number : T190321W03
Operation Band :802.11g
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2019-04-10
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
115.36	Peak	34.32	-9.27	25.05	43.50	-18.45
199.75	Peak	36.54	-9.29	27.25	43.50	-16.25
230.79	Peak	38.38	-10.80	27.58	46.00	-18.42
400.54	Peak	35.12	-5.64	29.48	46.00	-16.52
600.36	Peak	33.60	-1.65	31.95	46.00	-14.05
799.21	Peak	34.40	1.52	35.92	46.00	-10.08

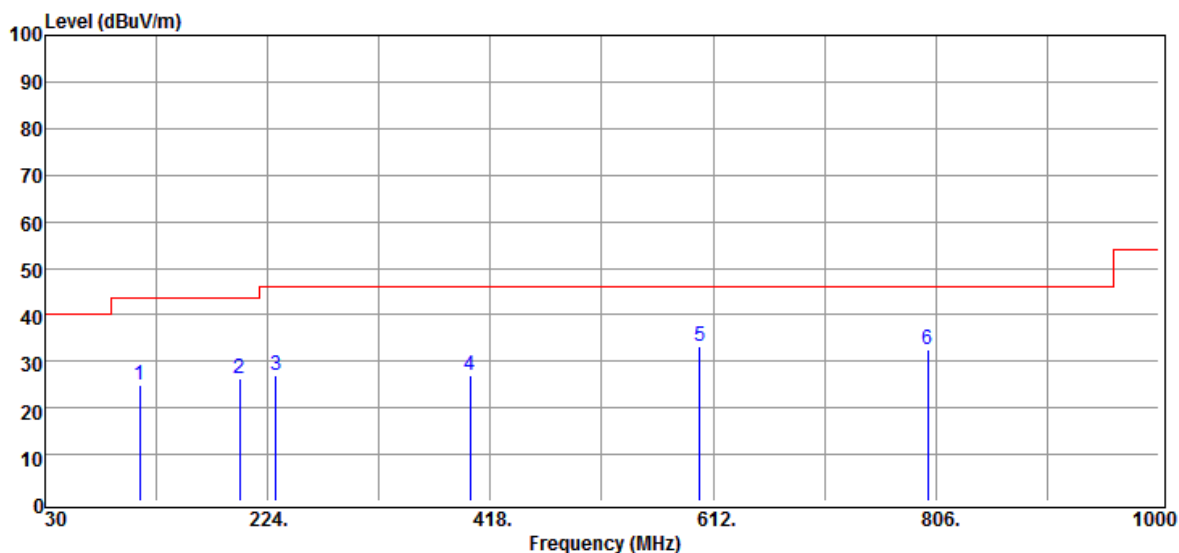
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Project Number : T190321W03
Operation Band :802.11n40
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2019-04-10
Temp./Humi. :21 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
112.45	Peak	34.50	-9.65	24.85	43.50	-18.65
199.75	Peak	35.53	-9.29	26.24	43.50	-17.26
230.79	Peak	37.82	-10.80	27.02	46.00	-18.98
400.54	Peak	32.73	-5.64	27.09	46.00	-18.91
600.36	Peak	34.74	-1.65	33.09	46.00	-12.91
799.21	Peak	31.18	1.52	32.70	46.00	-13.30

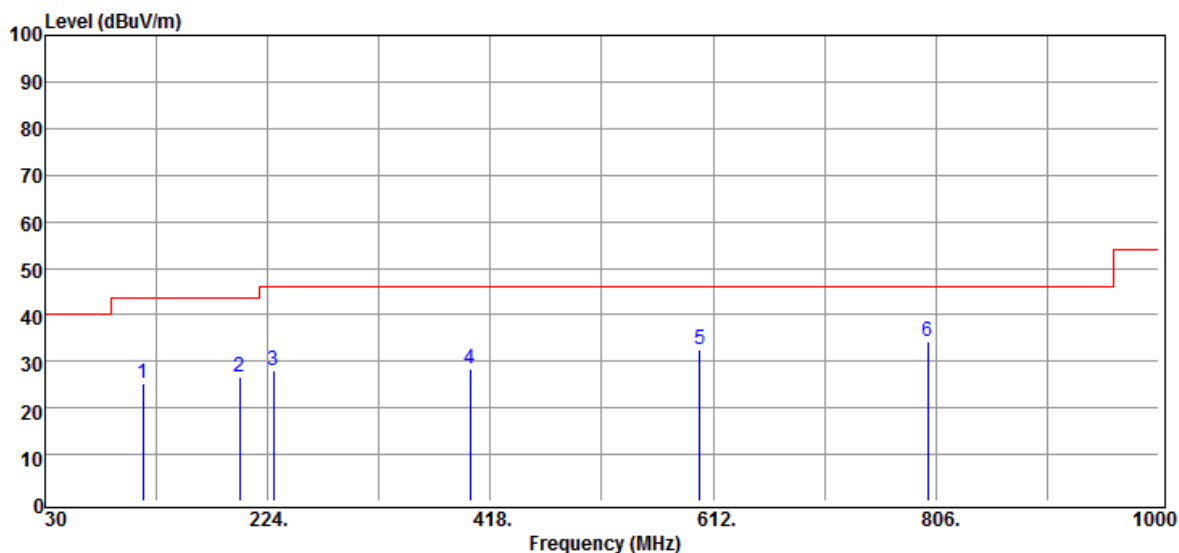
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
115.36	Peak	34.57	-9.27	25.30	43.50	-18.20
199.75	Peak	36.05	-9.29	26.76	43.50	-16.74
228.85	Peak	38.99	-10.89	28.10	46.00	-17.90
400.54	Peak	33.89	-5.64	28.25	46.00	-17.75
600.36	Peak	34.19	-1.65	32.54	46.00	-13.46
799.21	Peak	32.88	1.52	34.40	46.00	-11.60

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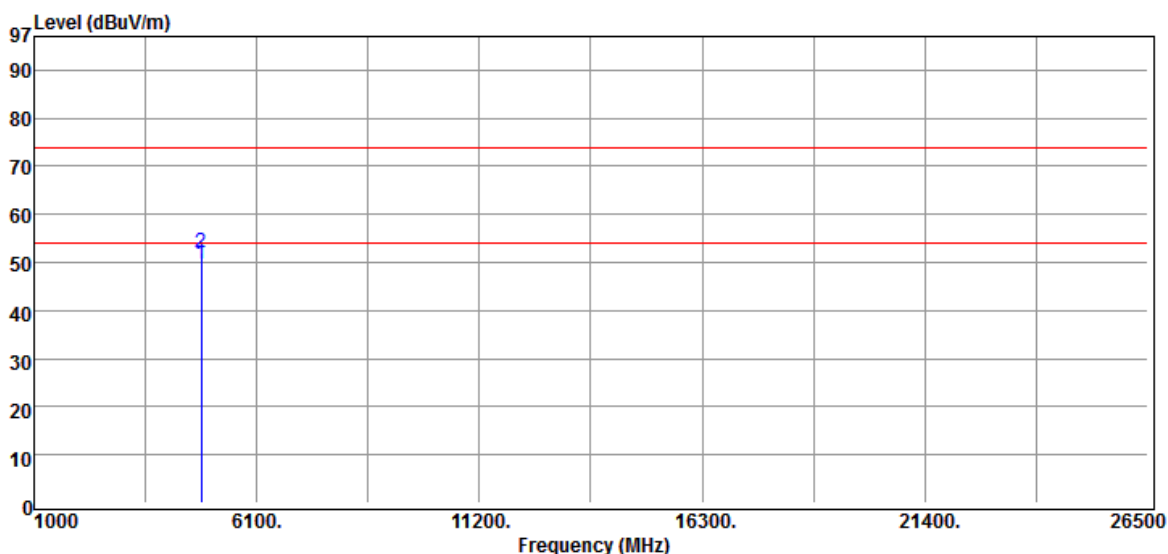
Radiated Spurious Emission Measurement Result

Above 1GHz Data:

PCB Antenna

Project Number : T190321W03
 Operation Band :802.11b
 Fundamental Frequency :2412 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2019-04-10
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	46.79	3.02	49.81	54.00	-4.19
4824.00	Peak	49.12	3.02	52.14	74.00	-21.86

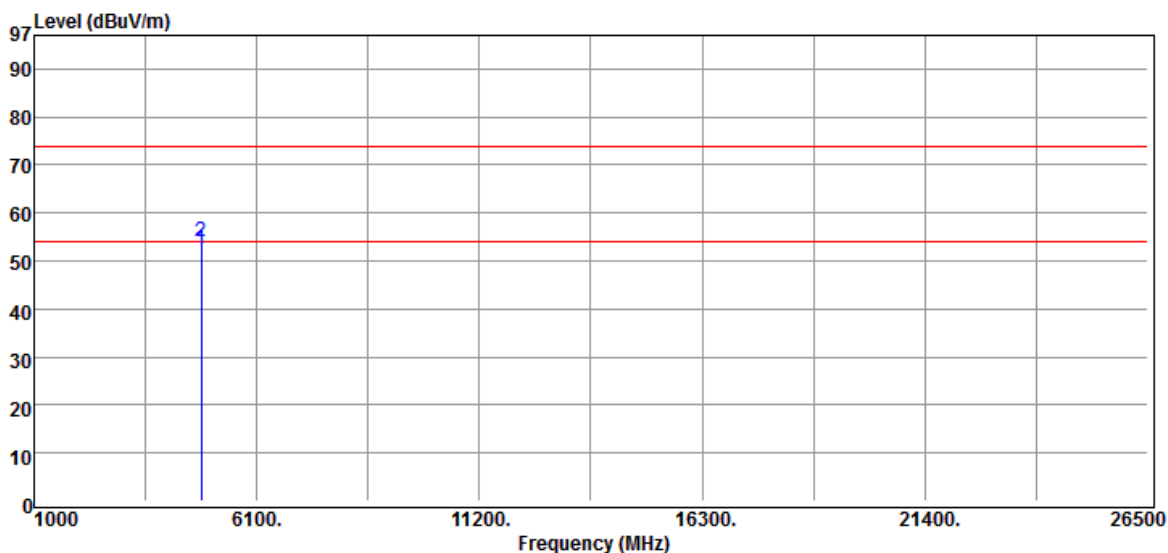
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Project Number : T190321W03
Operation Band : 802.11b
Fundamental Frequency : 2412 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4824.00	Average	49.36	3.02	52.38	54.00	-1.62
4824.00	Peak	51.17	3.02	54.19	74.00	-19.81

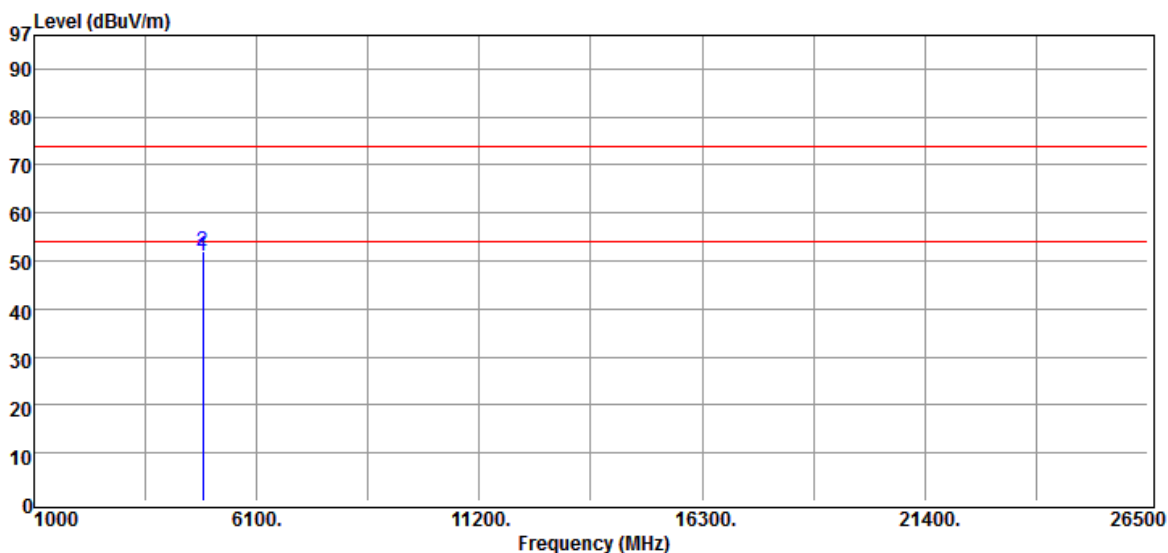
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Project Number : T190321W03
Operation Band : 802.11b
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	47.51	3.36	50.87	54.00	-3.13
4874.00	Peak	48.72	3.36	52.08	74.00	-21.92

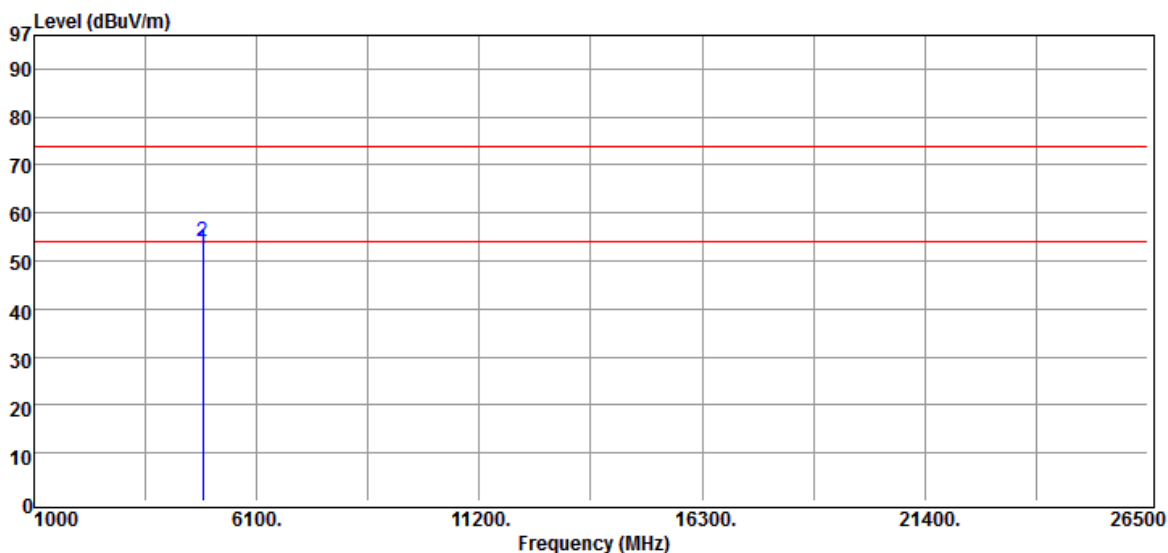
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Project Number : T190321W03
Operation Band : 802.11b
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	49.13	3.36	52.49	54.00	-1.51
4874.00	Peak	50.52	3.36	53.88	74.00	-20.12

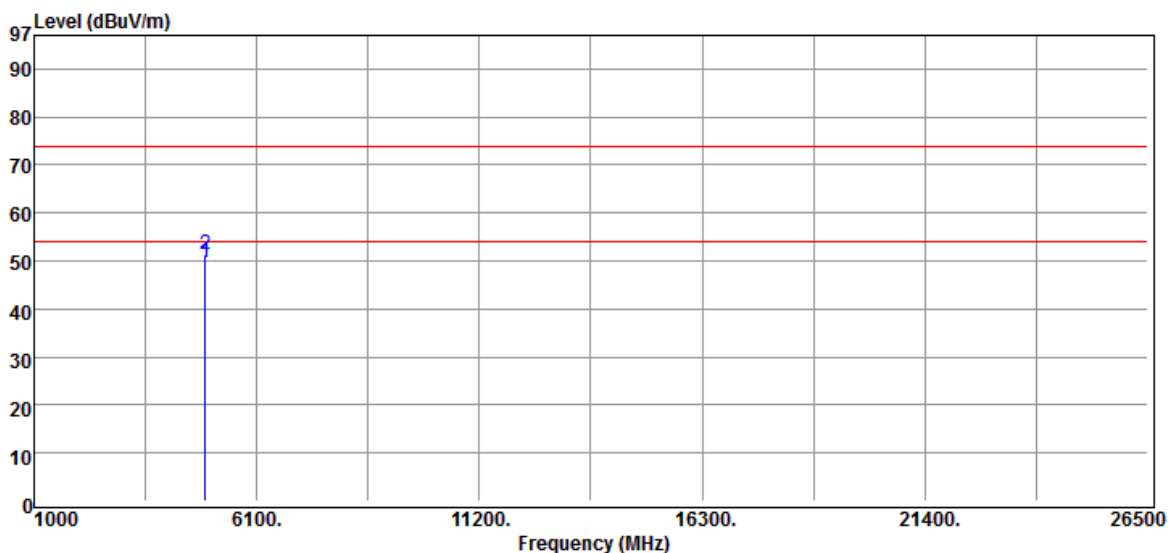
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Project Number : T190321W03
Operation Band : 802.11b
Fundamental Frequency : 2462 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4924.00	Average	46.04	3.63	49.67	54.00	-4.33
4924.00	Peak	47.60	3.63	51.23	74.00	-22.77

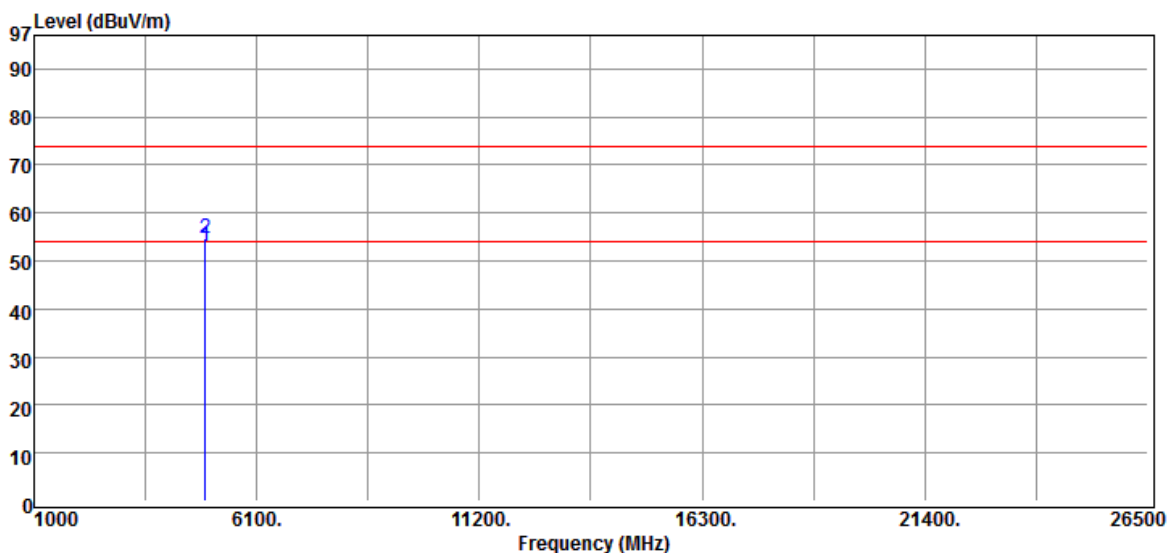
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Project Number : T190321W03
Operation Band : 802.11b
Fundamental Frequency : 2462 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4924.00	Average	49.26	3.63	52.89	54.00	-1.11
4924.00	Peak	50.92	3.63	54.55	74.00	-19.45

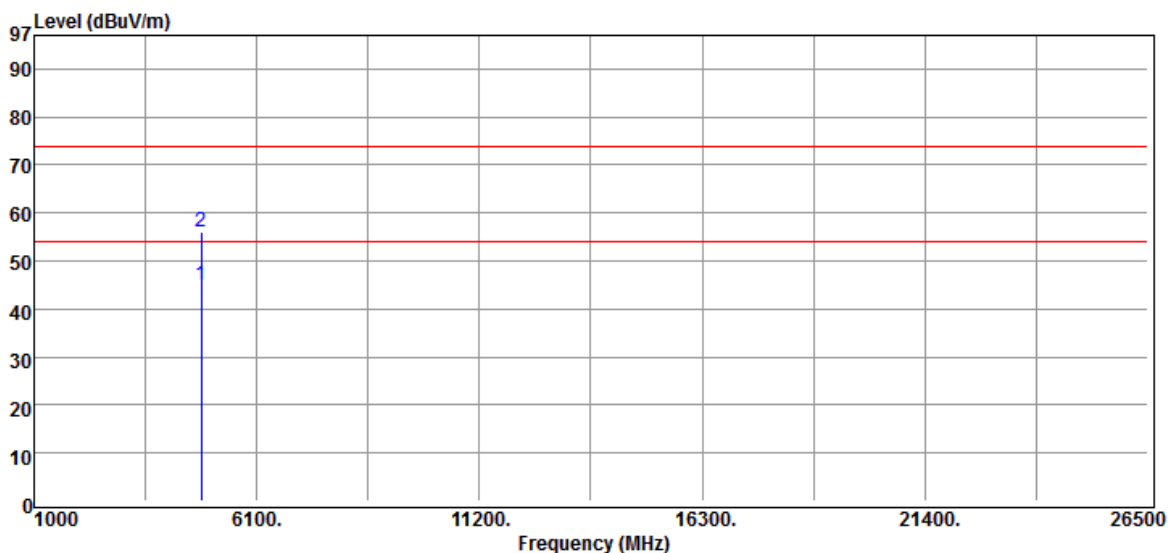
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Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2412 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4824.00	Average	42.10	3.02	45.12	54.00	-8.88
4824.00	Peak	53.20	3.02	56.22	74.00	-17.78

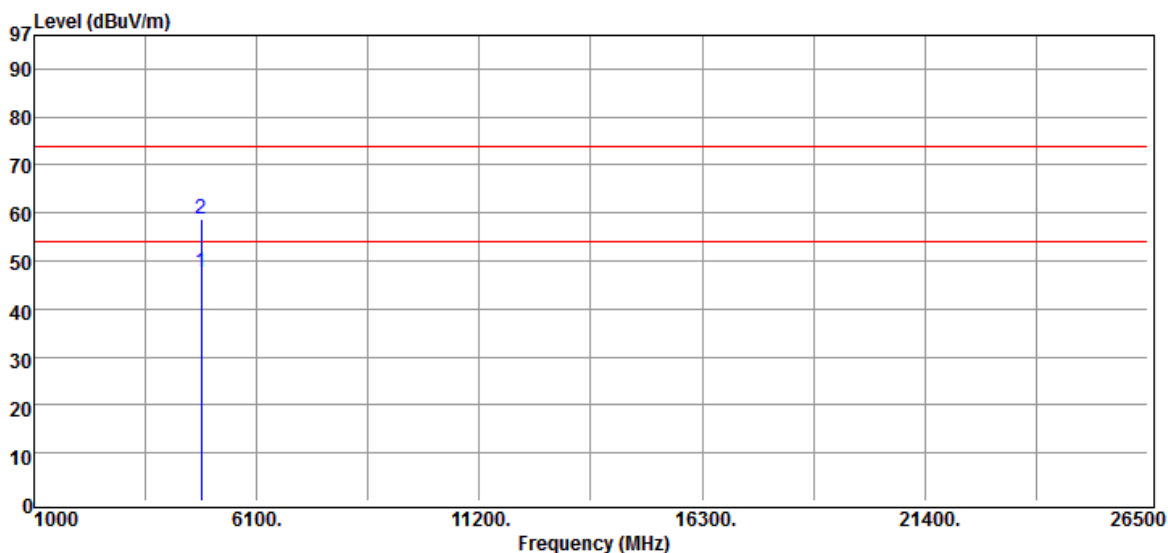
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Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2412 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	44.78	3.02	47.80	54.00	-6.20
4824.00	Peak	55.79	3.02	58.81	74.00	-15.19

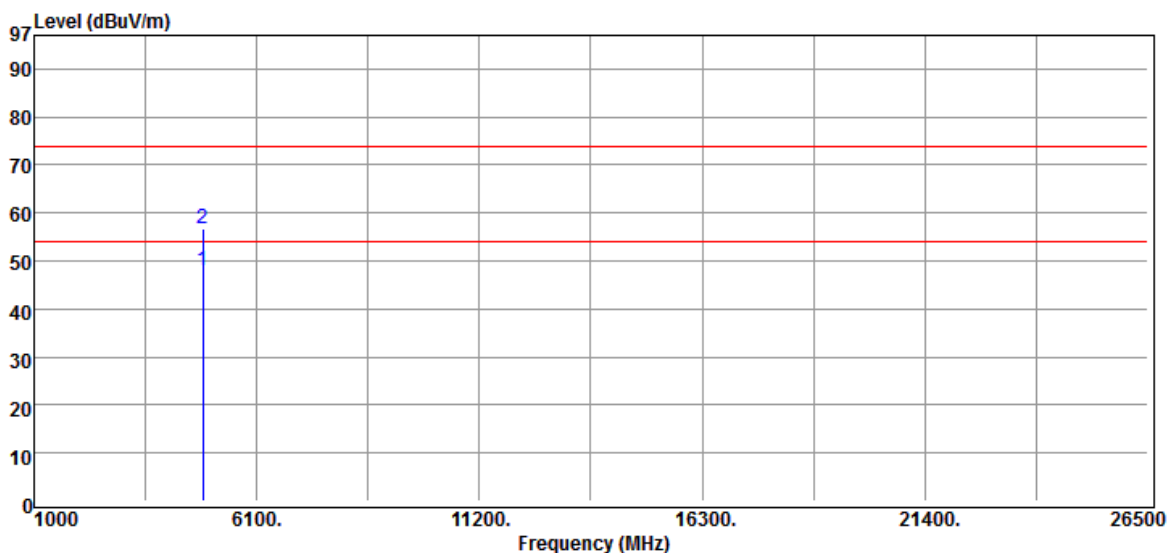
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Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	44.68	3.36	48.04	54.00	-5.96
4874.00	Peak	53.42	3.36	56.78	74.00	-17.22

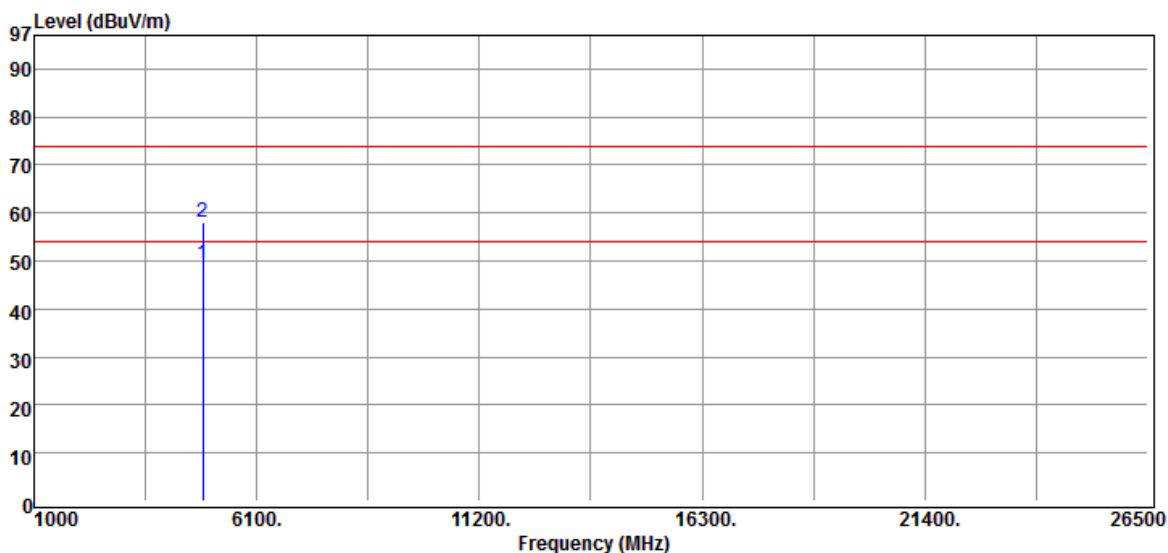
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Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	46.08	3.36	49.44	54.00	-4.56
4874.00	Peak	54.78	3.36	58.14	74.00	-15.86

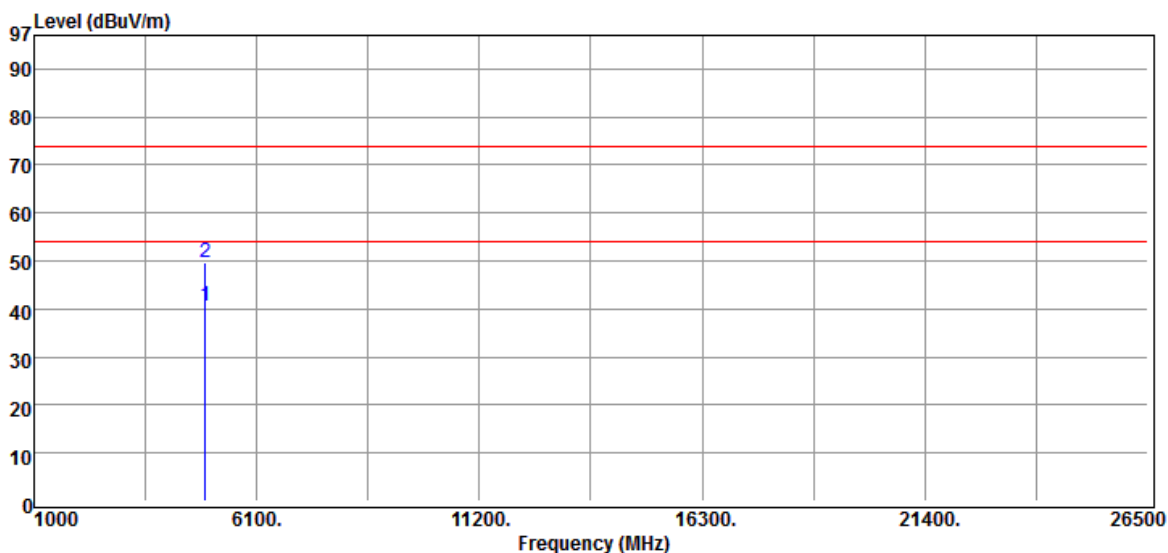
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Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2462 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	36.83	3.93	40.76	54.00	-13.24
4924.00	Peak	45.91	3.93	49.84	74.00	-24.16

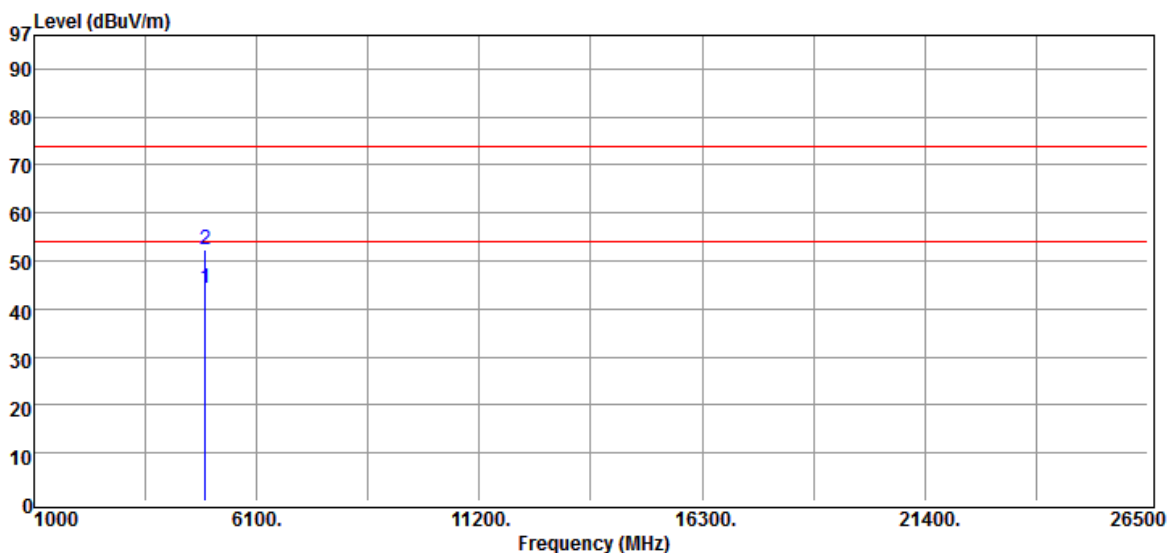
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Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2462 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	40.32	3.93	44.25	54.00	-9.75
4924.00	Peak	48.33	3.93	52.26	74.00	-21.74

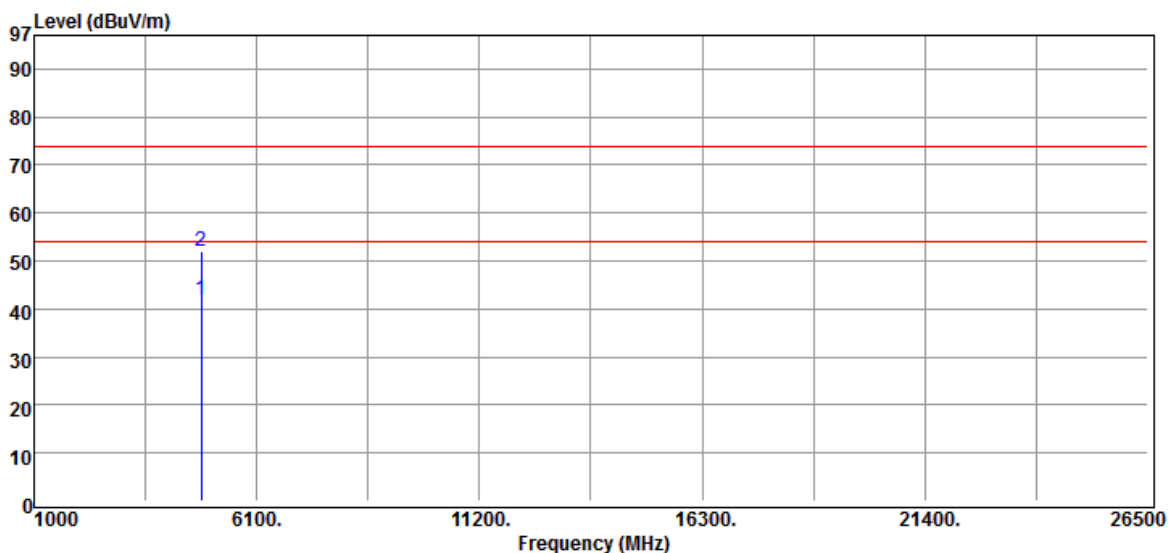
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Project Number : T190321W03
Operation Band : 802.11n20
Fundamental Frequency : 2412 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	38.85	3.02	41.87	54.00	-12.13
4824.00	Peak	49.05	3.02	52.07	74.00	-21.93

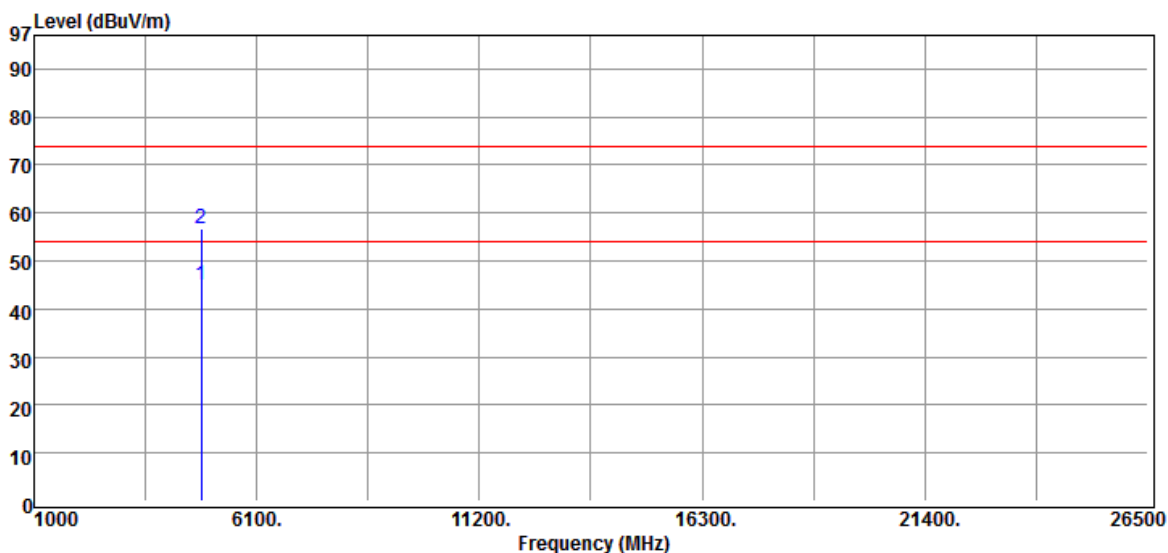
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Project Number : T190321W03
Operation Band : 802.11n20
Fundamental Frequency : 2412 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	41.97	3.02	44.99	54.00	-9.01
4824.00	Peak	53.65	3.02	56.67	74.00	-17.33

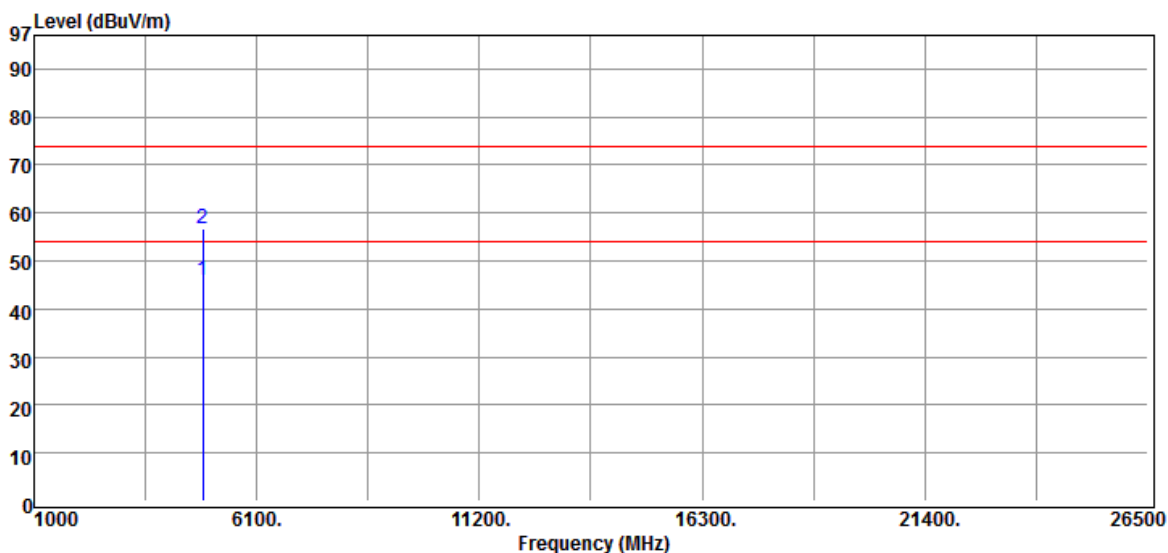
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Project Number : T190321W03
Operation Band : 802.11n20
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	42.54	3.36	45.90	54.00	-8.10
4874.00	Peak	53.36	3.36	56.72	74.00	-17.28

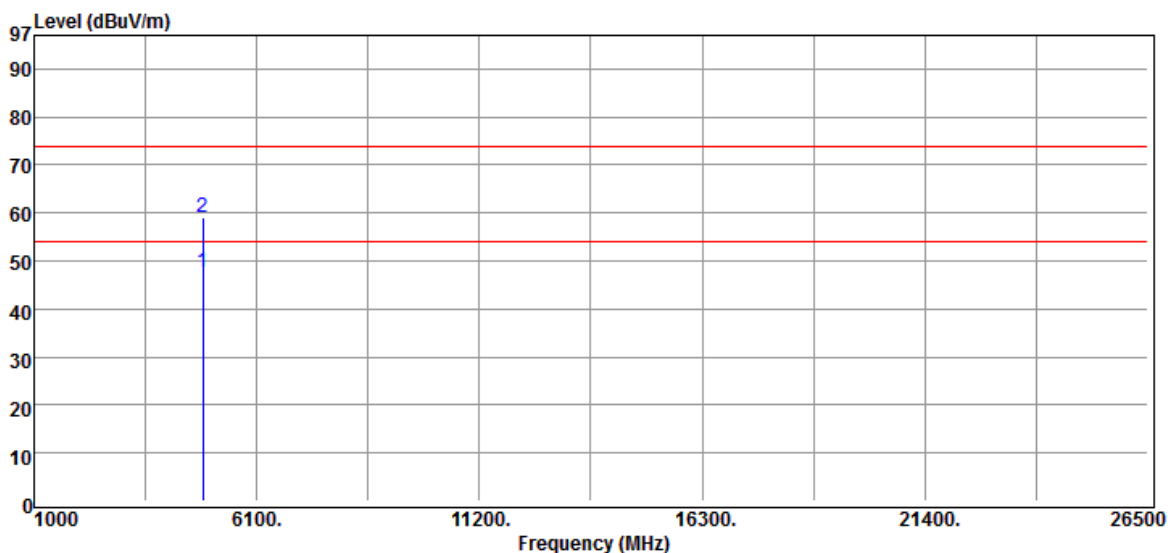
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Project Number : T190321W03
Operation Band : 802.11n20
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	44.45	3.36	47.81	54.00	-6.19
4874.00	Peak	55.69	3.36	59.05	74.00	-14.95

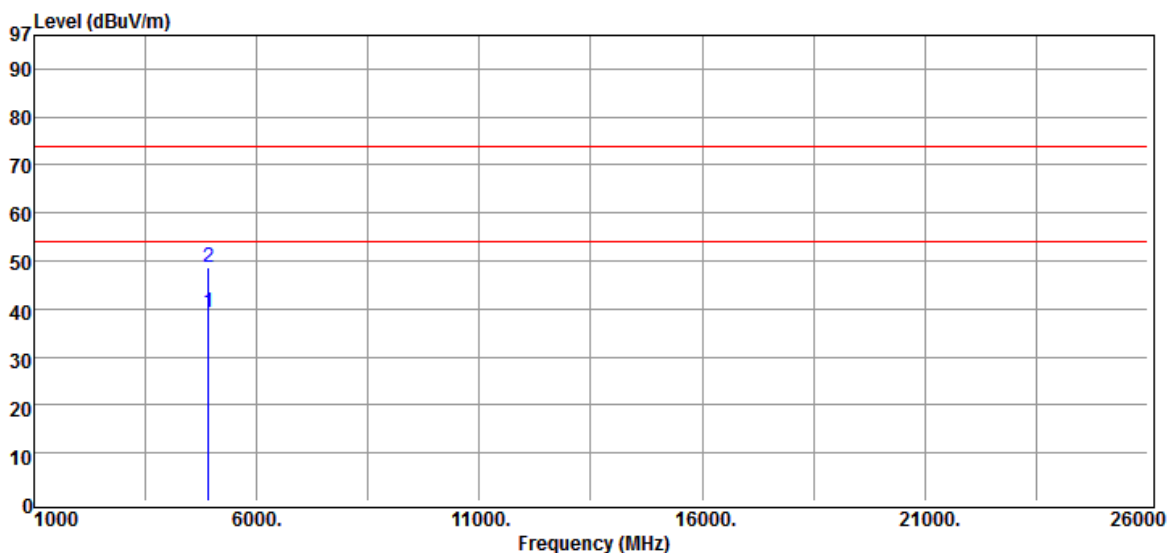
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Project Number : T190321W03
Operation Band : 802.11n20
Fundamental Frequency : 2462 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4924.00	Average	35.20	3.93	39.13	54.00	-14.87
4924.00	Peak	44.63	3.93	48.56	74.00	-25.44

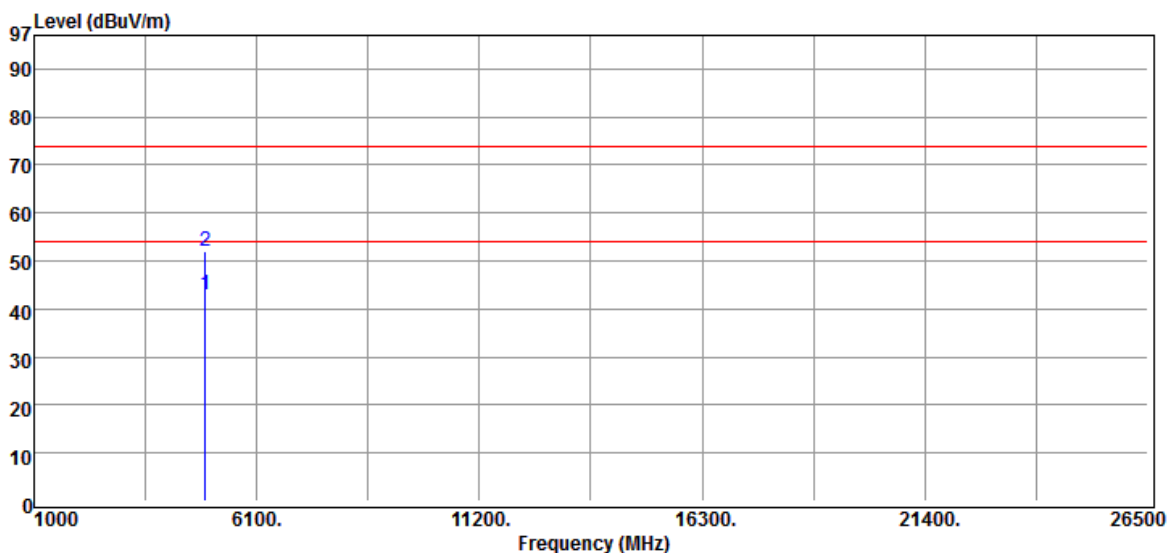
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Project Number : T190321W03
Operation Band : 802.11n20
Fundamental Frequency : 2462 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	38.95	3.93	42.88	54.00	-11.12
4924.00	Peak	47.99	3.93	51.92	74.00	-22.08

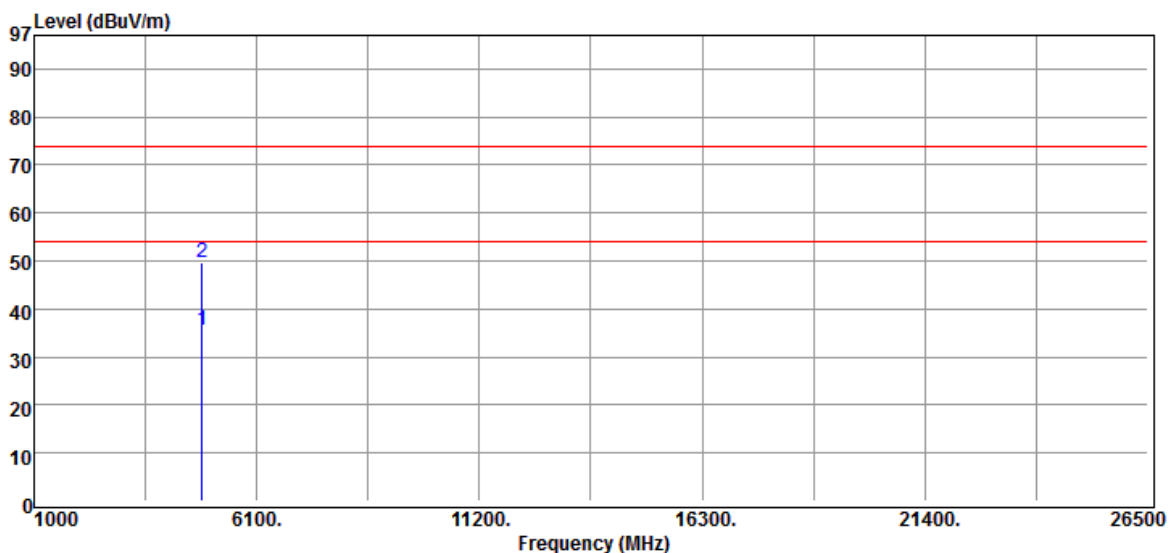
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2422 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.00	Average	32.62	3.04	35.66	54.00	-18.34
4844.00	Peak	46.77	3.04	49.81	74.00	-24.19

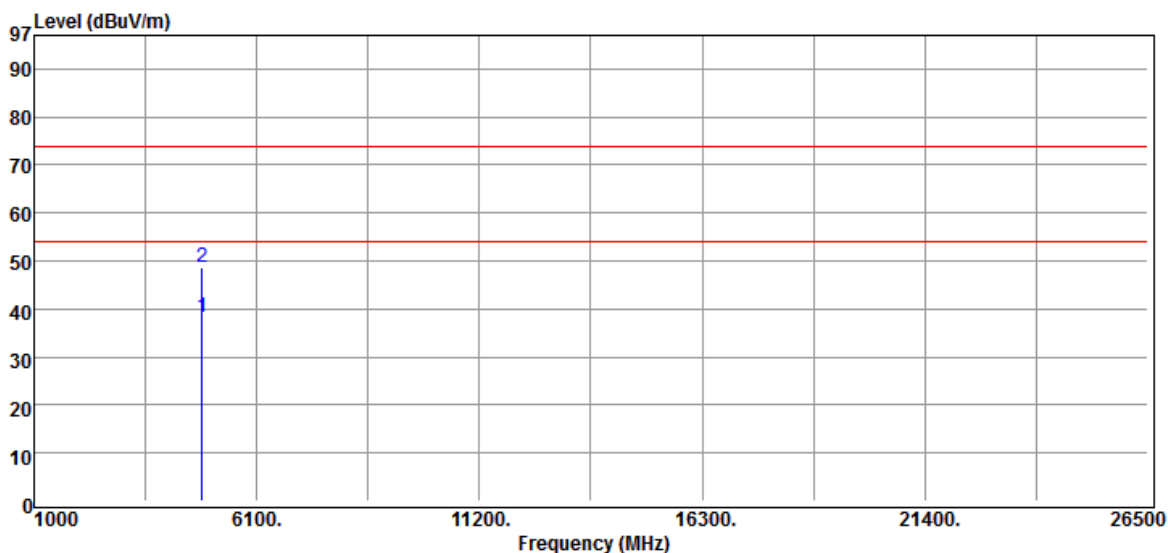
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2422 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.00	Average	35.23	3.04	38.27	54.00	-15.73
4844.00	Peak	45.76	3.04	48.80	74.00	-25.20

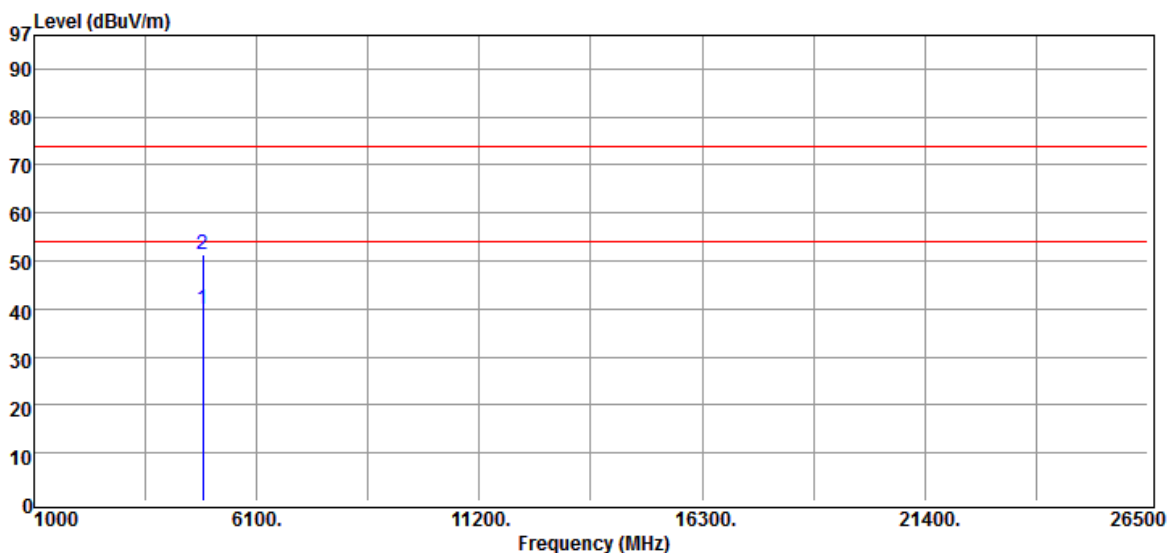
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	36.53	3.36	39.89	54.00	-14.11
4874.00	Peak	47.99	3.36	51.35	74.00	-22.65

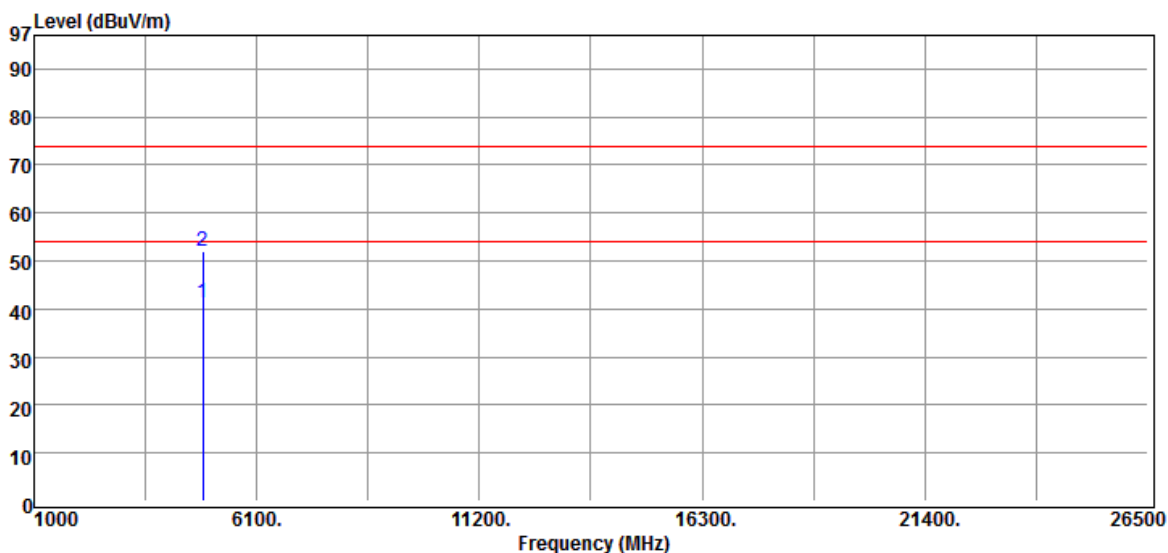
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	37.95	3.36	41.31	54.00	-12.69
4874.00	Peak	48.53	3.36	51.89	74.00	-22.11

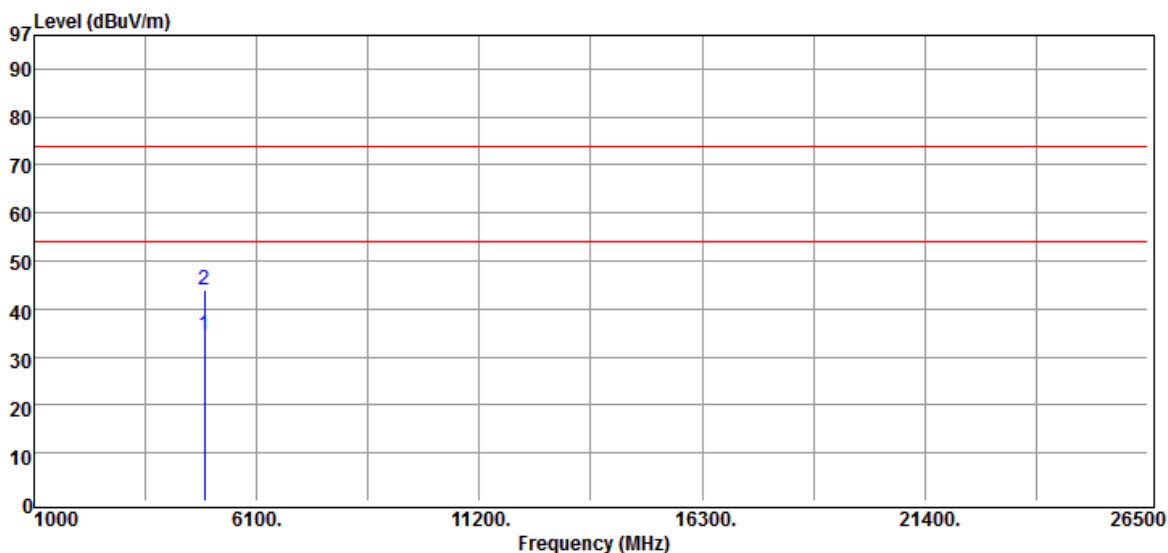
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2452 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	Average	31.05	3.64	34.69	54.00	-19.31
4904.00	Peak	40.20	3.64	43.84	74.00	-30.16

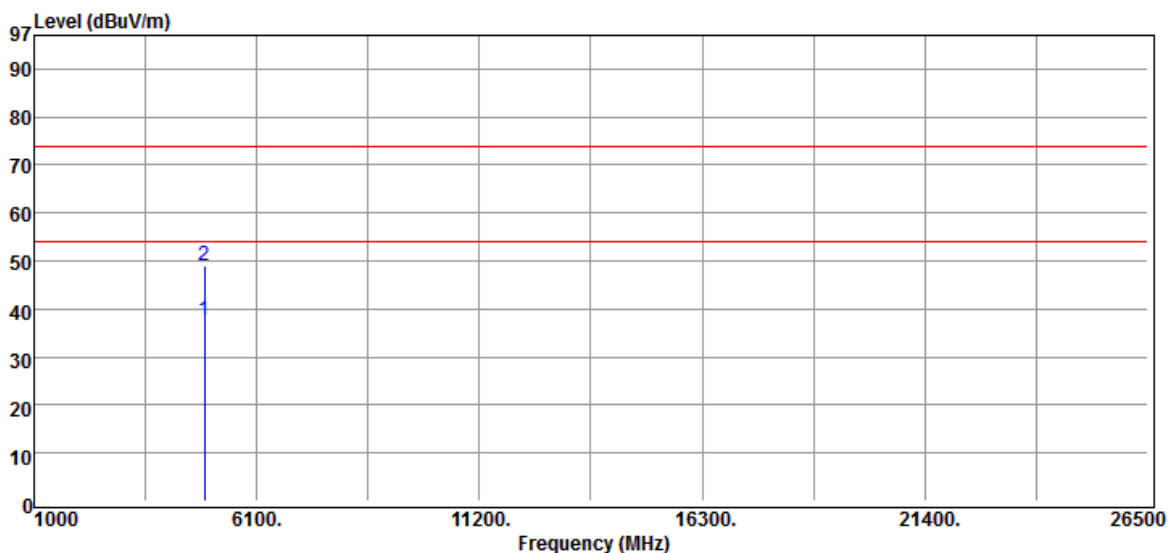
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2452 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	Average	34.08	3.64	37.72	54.00	-16.28
4904.00	Peak	45.27	3.64	48.91	74.00	-25.09

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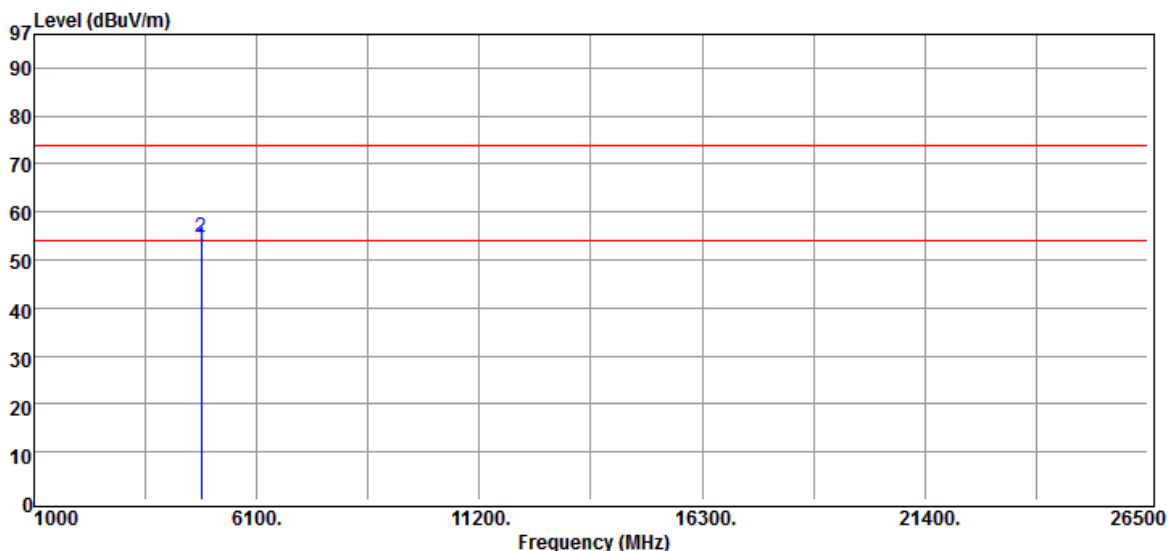
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Dipole Antenna

Project Number : T190321W03
Operation Band : 802.11b
Fundamental Frequency : 2412 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	49.82	3.02	52.84	54.00	-1.16
4824.00	Peak	51.85	3.02	54.87	74.00	-19.13

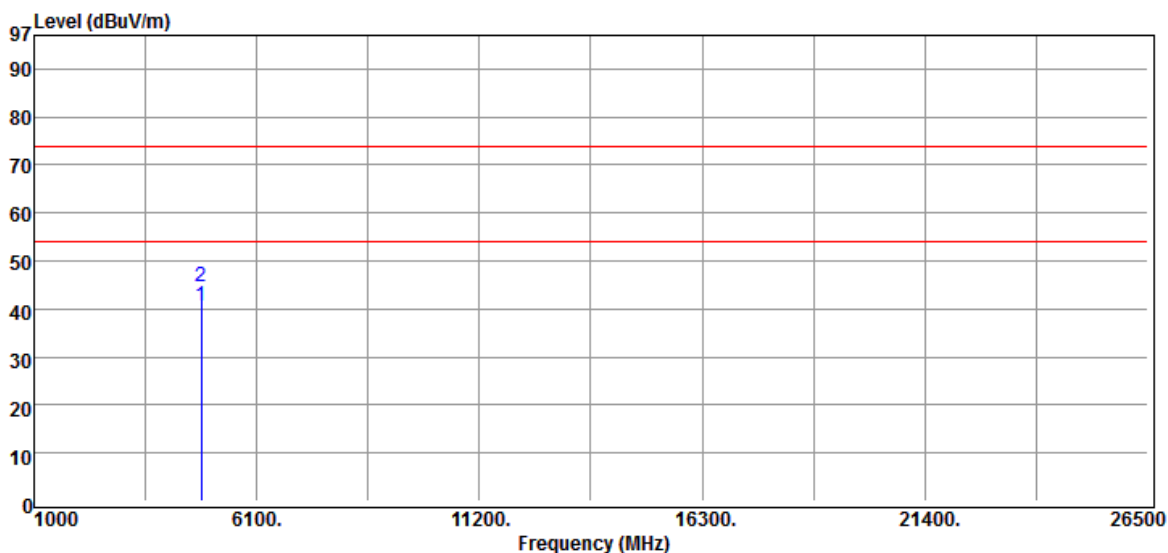
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Project Number : T190321W03
Operation Band : 802.11b
Fundamental Frequency : 2412 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	37.52	3.02	40.54	54.00	-13.46
4824.00	Peak	41.55	3.02	44.57	74.00	-29.43

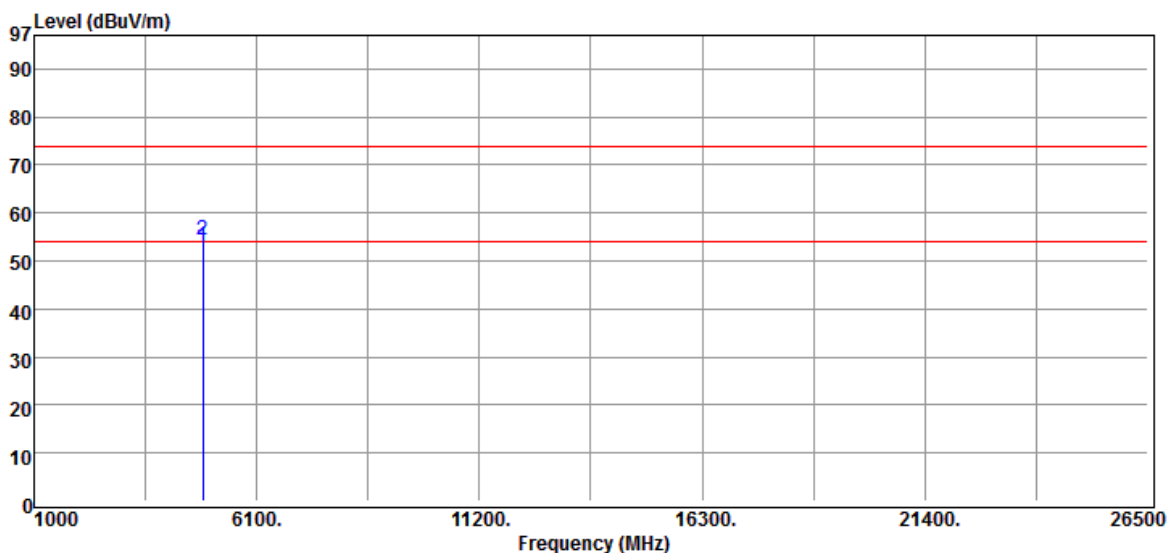
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Project Number : T190321W03
Operation Band : 802.11b
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	49.59	3.36	52.95	54.00	-1.05
4874.00	Peak	50.93	3.36	54.29	74.00	-19.71

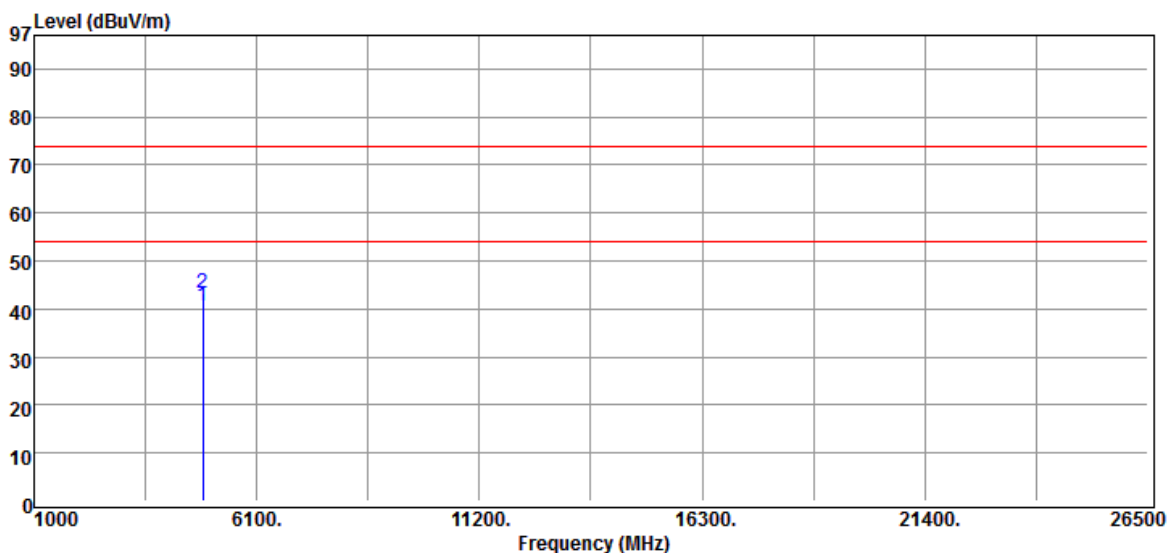
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Project Number : T190321W03
Operation Band : 802.11b
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4871.00	Average	37.12	3.33	40.45	54.00	-13.55
4871.00	Peak	40.07	3.33	43.40	74.00	-30.60

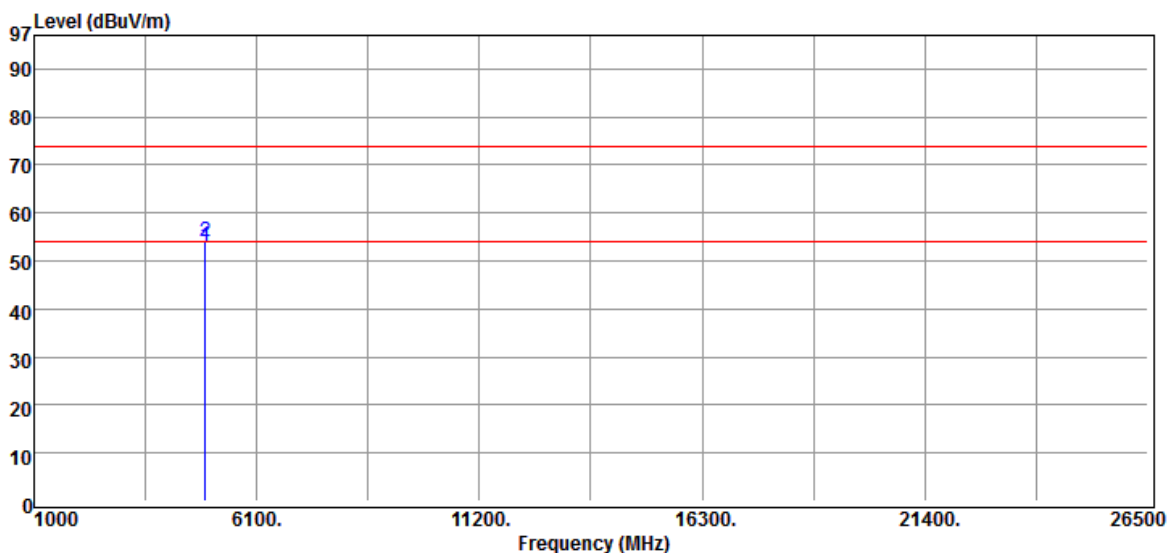
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Project Number : T190321W03
Operation Band : 802.11b
Fundamental Frequency : 2462 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	49.01	3.93	52.94	54.00	-1.06
4924.00	Peak	50.22	3.93	54.15	74.00	-19.85

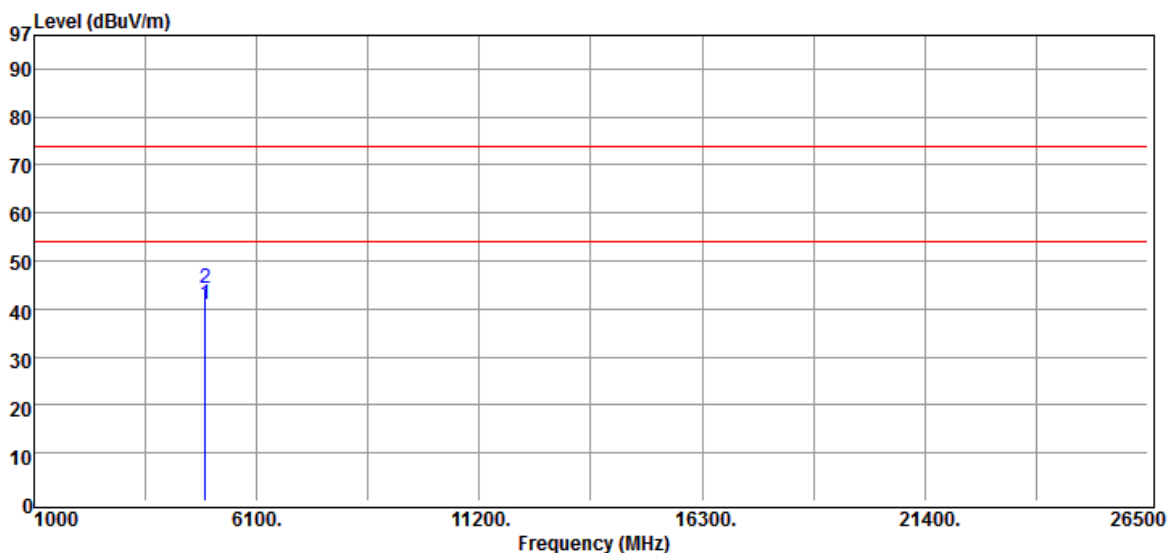
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Project Number : T190321W03
Operation Band : 802.11b
Fundamental Frequency : 2462 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	37.16	3.93	41.09	54.00	-12.91
4924.00	Peak	40.44	3.93	44.37	74.00	-29.63

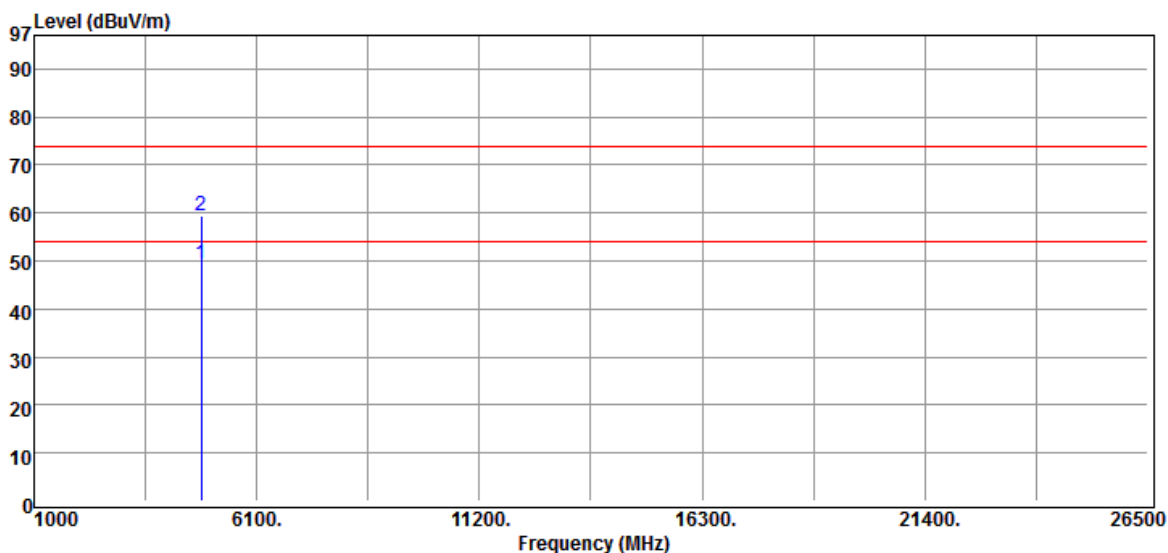
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Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2412 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	46.35	3.02	49.37	54.00	-4.63
4824.00	Peak	56.51	3.02	59.53	74.00	-14.47

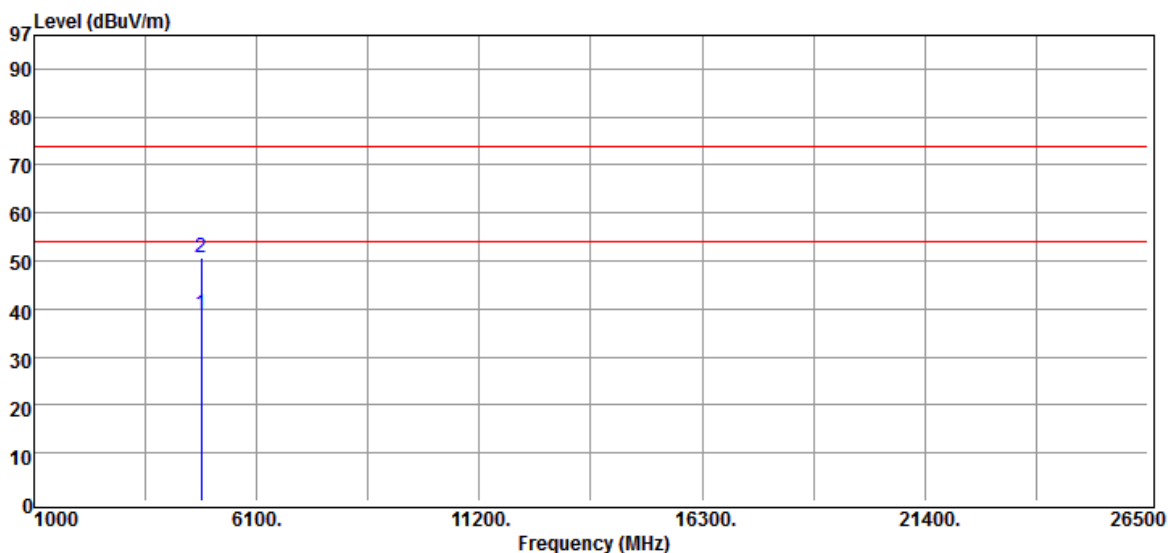
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Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2412 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	36.08	3.02	39.10	54.00	-14.90
4824.00	Peak	47.78	3.02	50.80	74.00	-23.20

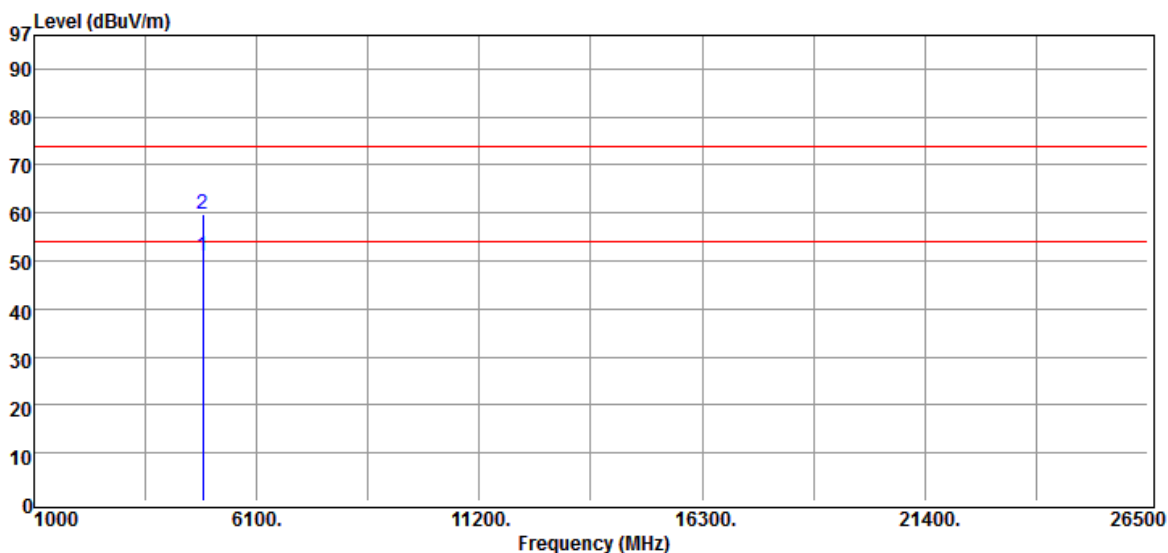
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Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	47.79	3.36	51.15	54.00	-2.85
4874.00	Peak	56.25	3.36	59.61	74.00	-14.39

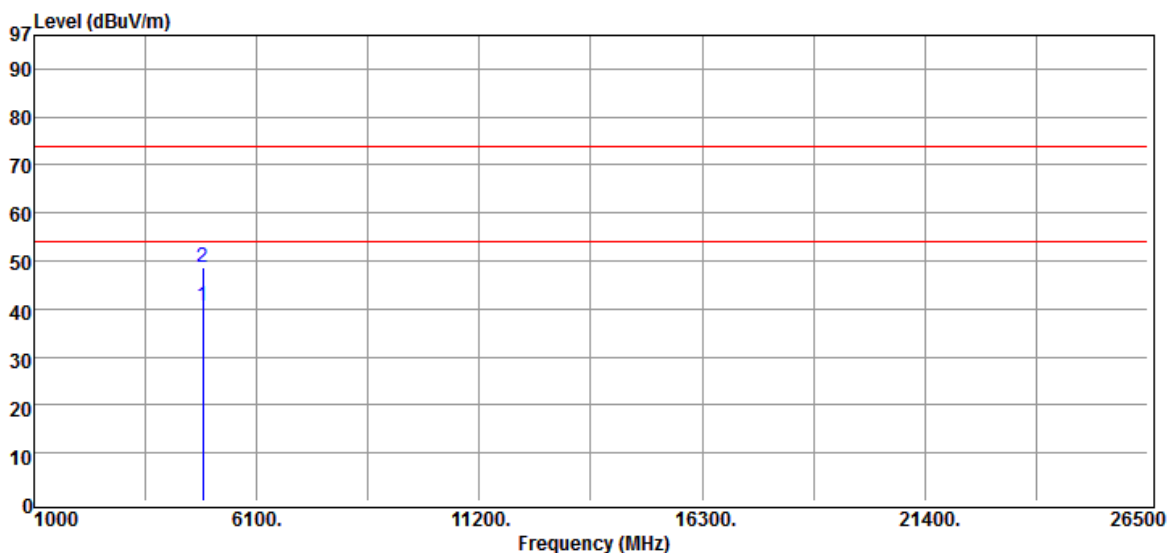
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Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	37.11	3.36	40.47	54.00	-13.53
4874.00	Peak	45.19	3.36	48.55	74.00	-25.45

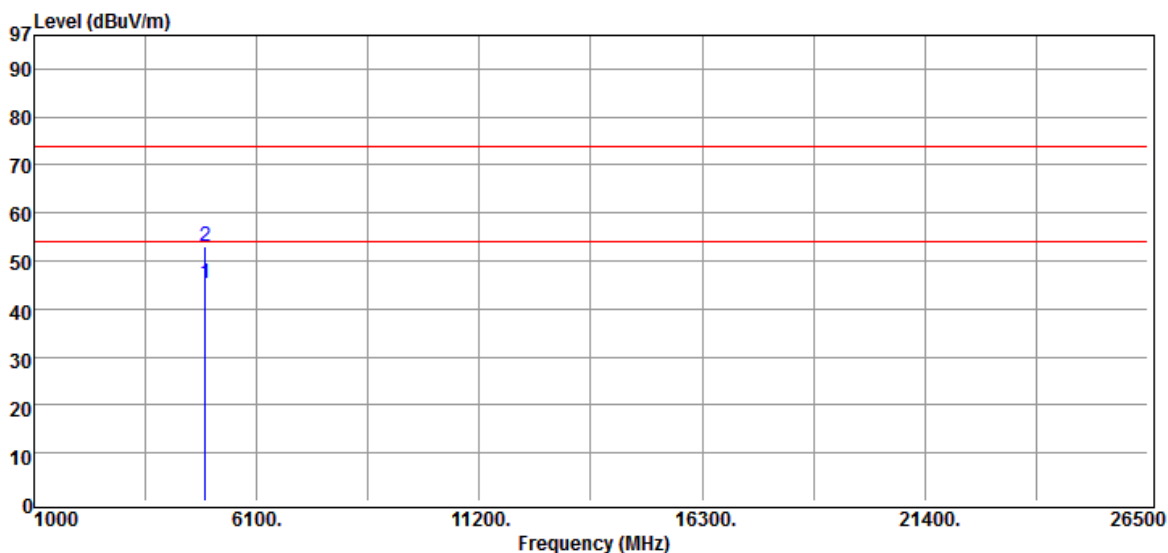
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Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2462 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	41.43	3.93	45.36	54.00	-8.64
4924.00	Peak	49.04	3.93	52.97	74.00	-21.03

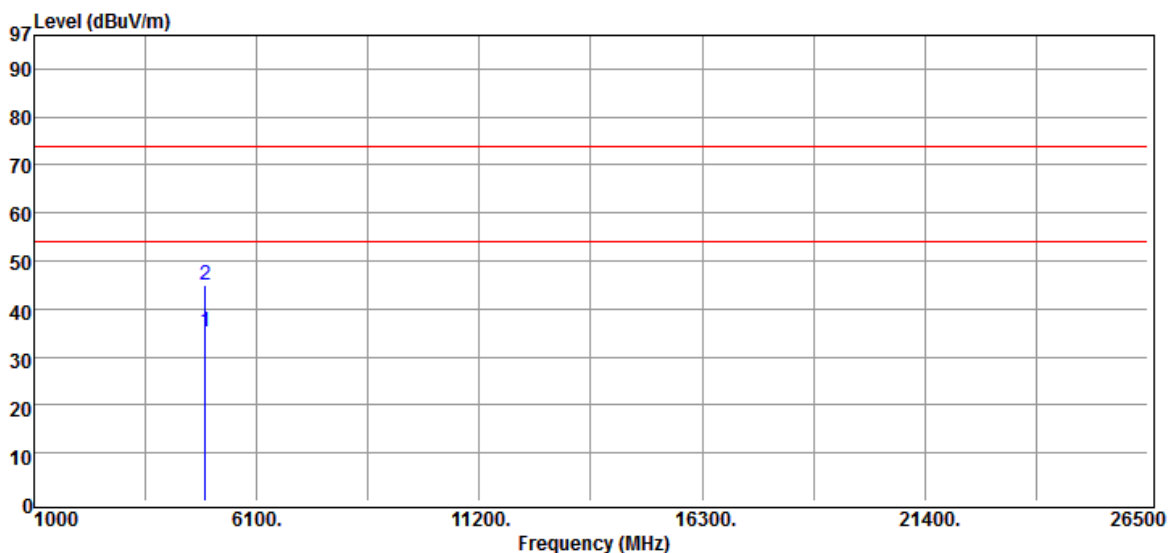
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Project Number : T190321W03
Operation Band : 802.11g
Fundamental Frequency : 2462 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	31.40	3.93	35.33	54.00	-18.67
4924.00	Peak	40.89	3.93	44.82	74.00	-29.18

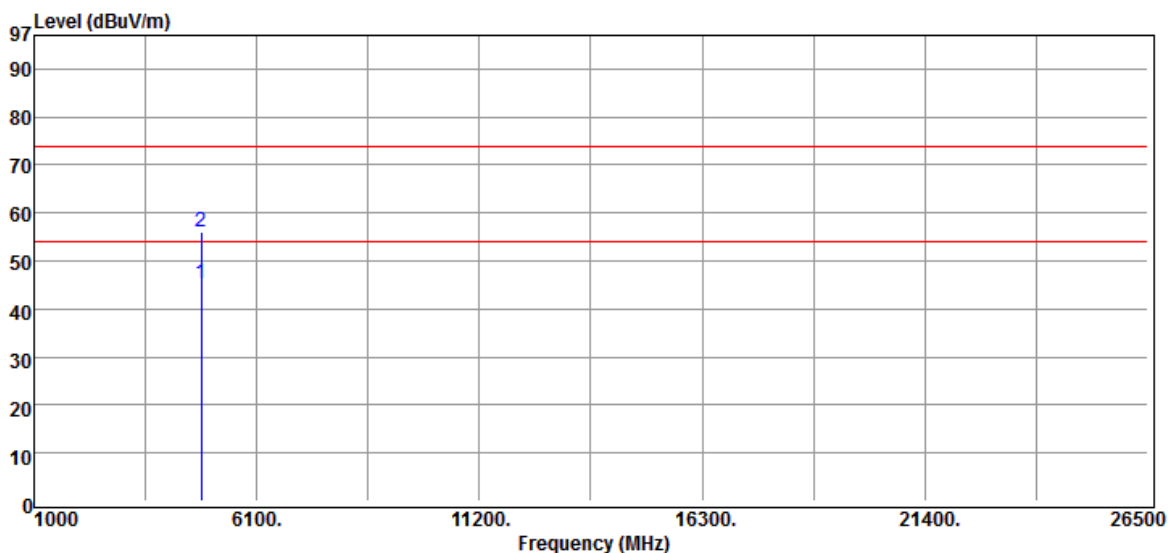
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Project Number : T190321W03
Operation Band : 802.11n20
Fundamental Frequency : 2412 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	42.43	3.02	45.45	54.00	-8.55
4824.00	Peak	53.11	3.02	56.13	74.00	-17.87

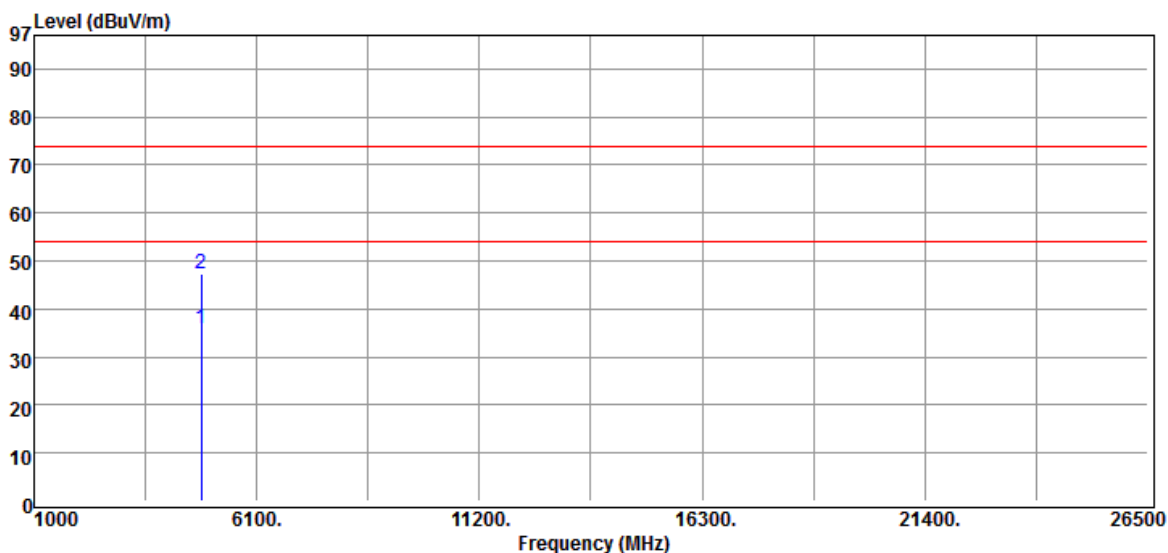
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Project Number : T190321W03
Operation Band : 802.11n20
Fundamental Frequency : 2412 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4824.00	Average	33.05	3.02	36.07	54.00	-17.93
4824.00	Peak	44.32	3.02	47.34	74.00	-26.66

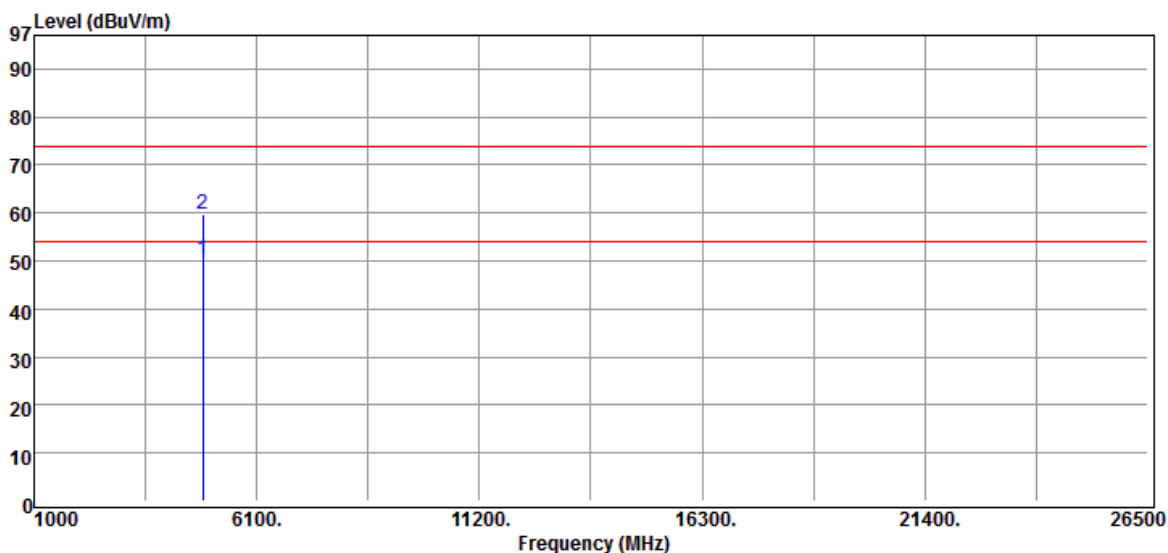
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Project Number : T190321W03
Operation Band : 802.11n20
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	46.98	3.36	50.34	54.00	-3.66
4874.00	Peak	56.43	3.36	59.79	74.00	-14.21

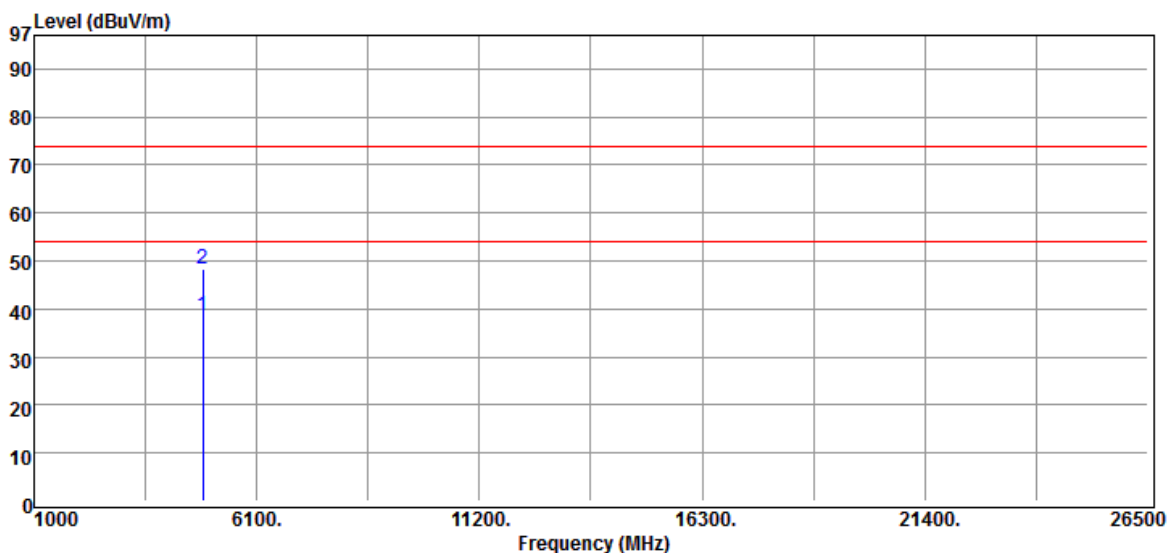
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Project Number : T190321W03
Operation Band : 802.11n20
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	35.24	3.36	38.60	54.00	-15.40
4874.00	Peak	45.00	3.36	48.36	74.00	-25.64

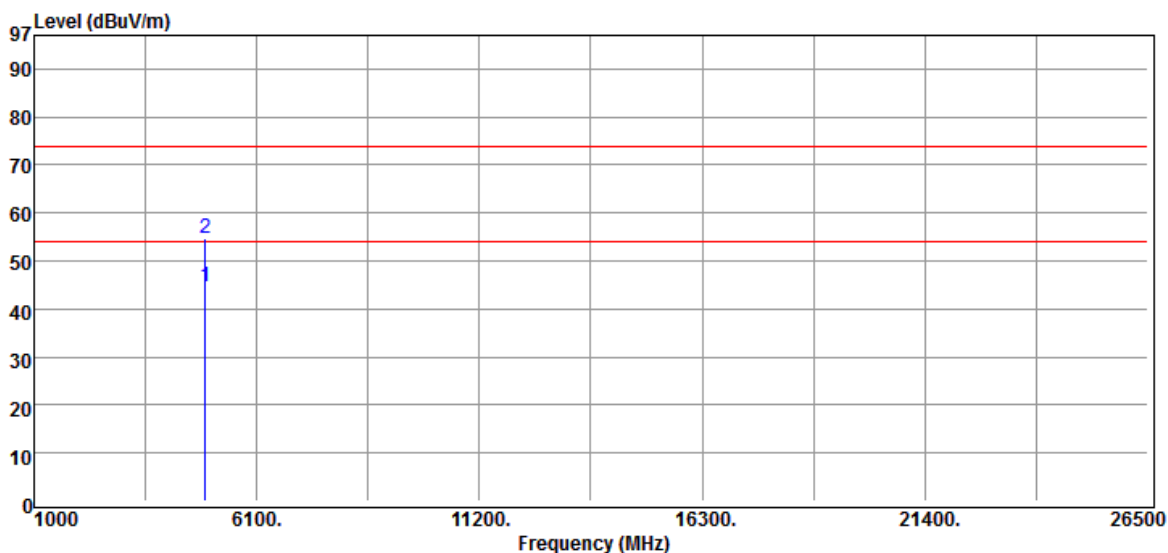
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Project Number : T190321W03
Operation Band : 802.11n20
Fundamental Frequency : 2462 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	40.58	3.93	44.51	54.00	-9.49
4924.00	Peak	50.69	3.93	54.62	74.00	-19.38

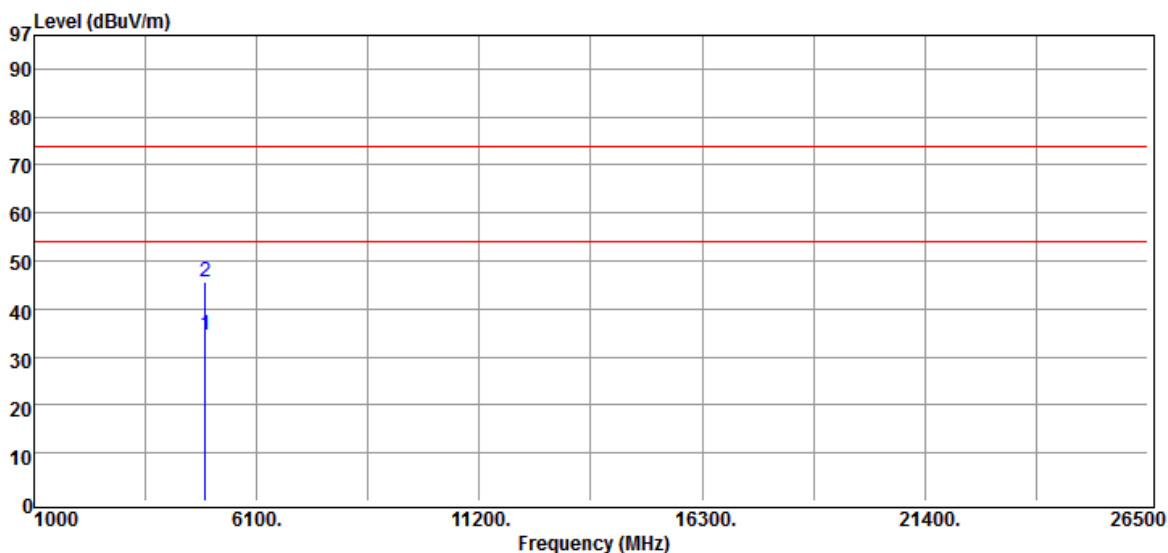
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Project Number : T190321W03
Operation Band : 802.11n20
Fundamental Frequency : 2462 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	30.59	3.93	34.52	54.00	-19.48
4924.00	Peak	41.85	3.93	45.78	74.00	-28.22

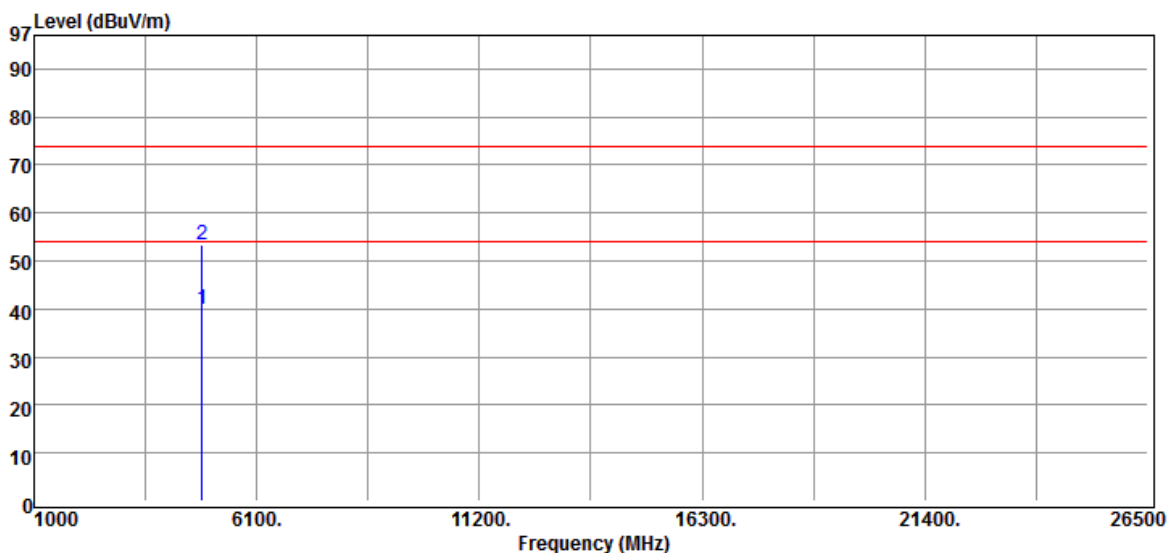
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2422 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4844.00	Average	36.78	3.04	39.82	54.00	-14.18
4844.00	Peak	50.23	3.04	53.27	74.00	-20.73

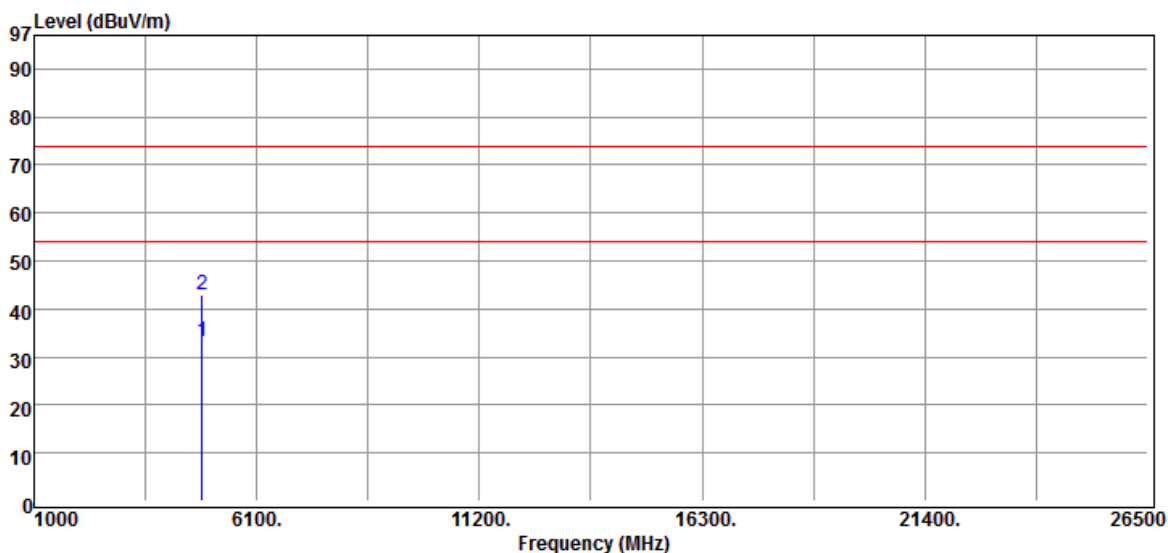
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2422 MHz
Operation Mode : Tx CH LOW
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.00	Average	30.21	3.04	33.25	54.00	-20.75
4844.00	Peak	40.07	3.04	43.11	74.00	-30.89

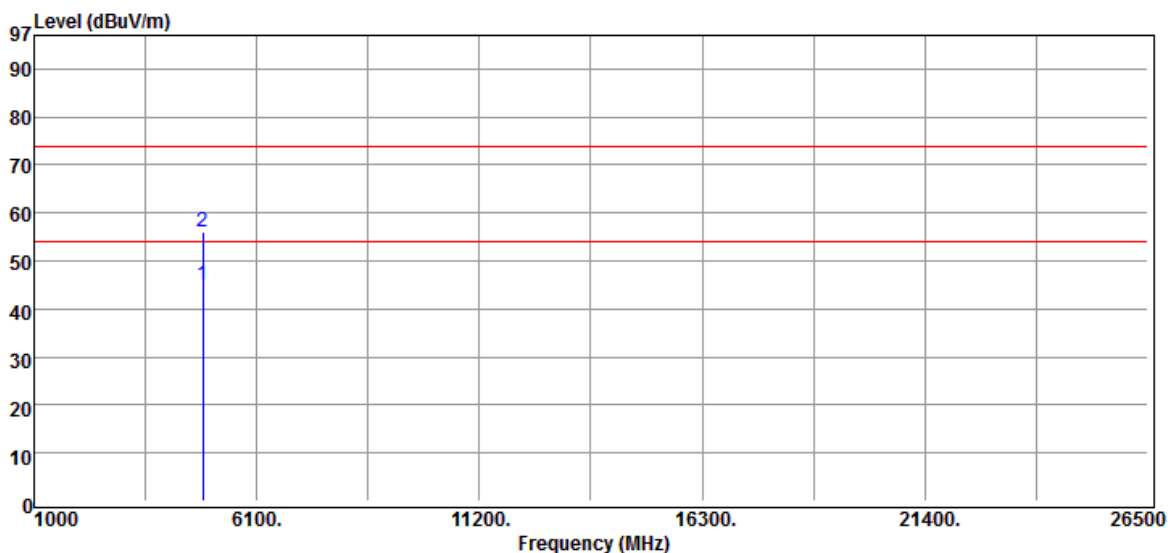
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	41.53	3.36	44.89	54.00	-9.11
4874.00	Peak	52.55	3.36	55.91	74.00	-18.09

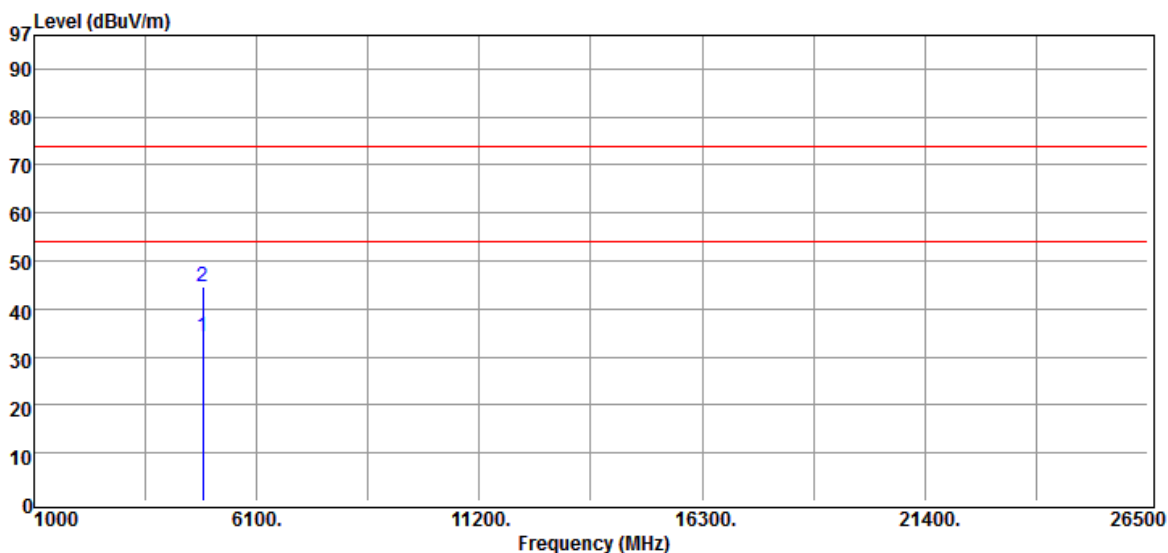
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2437 MHz
Operation Mode : Tx CH MID
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4874.00	Average	31.00	3.36	34.36	54.00	-19.64
4874.00	Peak	41.29	3.36	44.65	74.00	-29.35

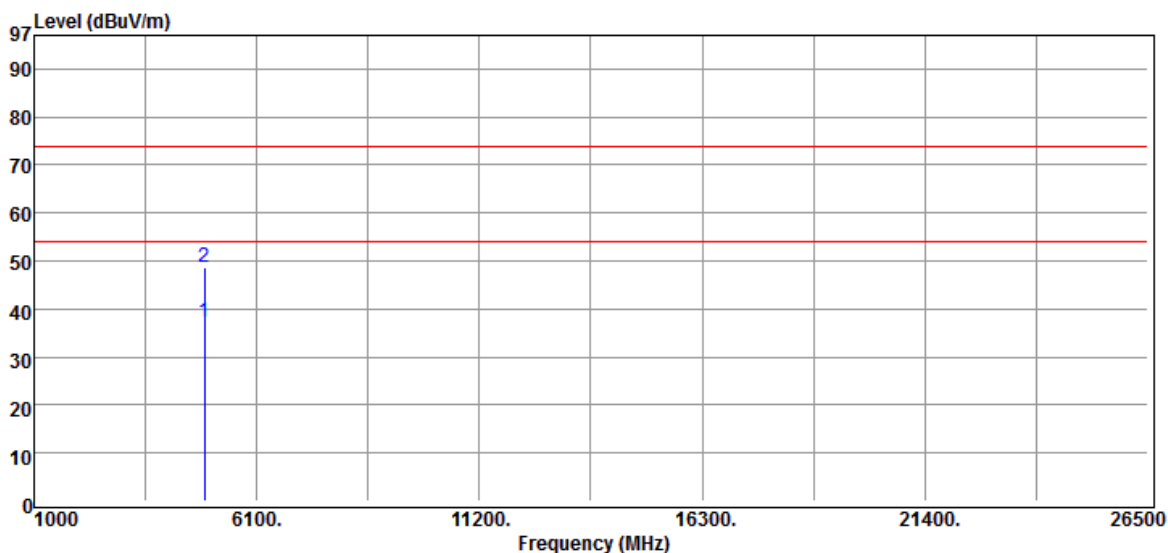
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2452 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	Average	33.78	3.64	37.42	54.00	-16.58
4904.00	Peak	45.15	3.64	48.79	74.00	-25.21

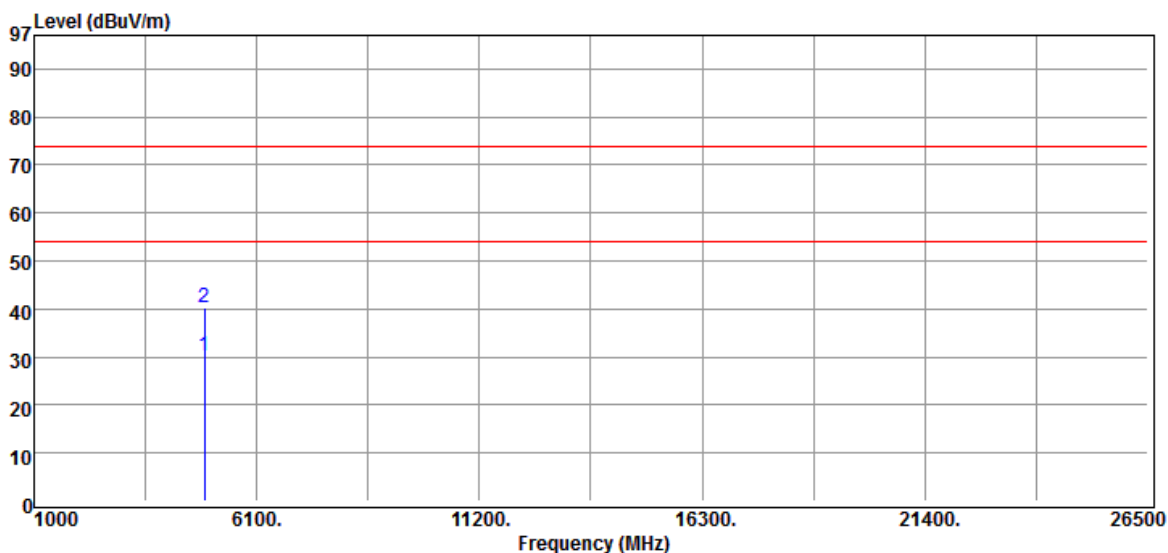
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Project Number : T190321W03
Operation Band : 802.11n40
Fundamental Frequency : 2452 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 2019-04-10
Temp./Humi. : 21 deg_C / 62 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4904.00	Average	26.53	3.64	30.17	54.00	-23.83
4904.00	Peak	36.68	3.64	40.32	74.00	-33.68

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12 PEAK POWER SPECTRAL DENSITY

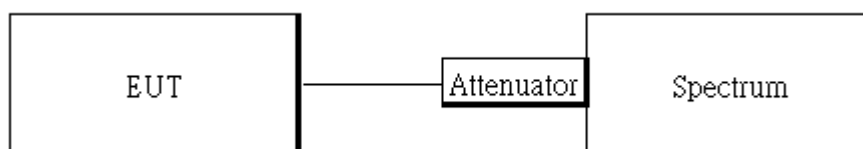
12.1 Standard Applicable

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

12.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	3	02/26/2019	02/25/2020

12.3 Test Set-up



12.4 Measurement Procedure

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

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain
 $= 10 \log[(10G_1/20 + 10G_2/20 + \dots + 10G_N/20)^2 / NANT]$ dBi

[Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

The antenna gain is greater than 6 dBi, therefore the limit needs to be reduced as section 12.5.

12.5 Measurement Result

POWER DENSITY 802.11b_2TX				POWER DENSITY 802.11g_MIMO			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-8.12	7.74	PASS	2412	-8.60	7.74	PASS
2437	-7.47	7.74	PASS	2437	-7.31	7.74	PASS
2462	-7.29	7.74	PASS	2462	-7.46	7.74	PASS
POWER DENSITY 802.11n_HT20_MIMO				POWER DENSITY 802.11n_HT40_MIMO			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-5.99	7.74	PASS	2422	-12.49	7.74	PASS
2437	-6.59	7.74	PASS	2437	-8.94	7.74	PASS
2462	-7.37	7.74	PASS	2452	-13.35	7.74	PASS

Note

Cable Loss 12.50 dB

*Refer to next page for plots

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Power Density 802.11b 20MHz Chain0 2412MHz



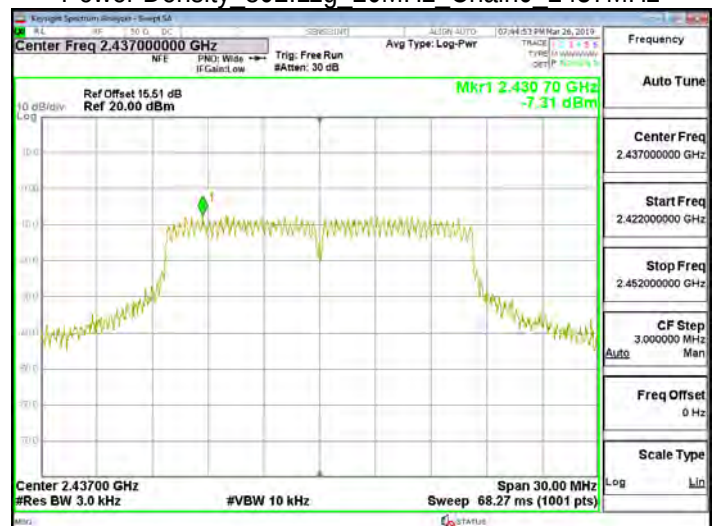
Power Density 802.11g 20MHz Chain0 2412MHz



Power Density 802.11b 20MHz Chain0 2437MHz



Power Density 802.11g 20MHz Chain0 2437MHz



Power Density 802.11b 20MHz Chain0 2462MHz



Power Density 802.11g 20MHz Chain0 2462MHz



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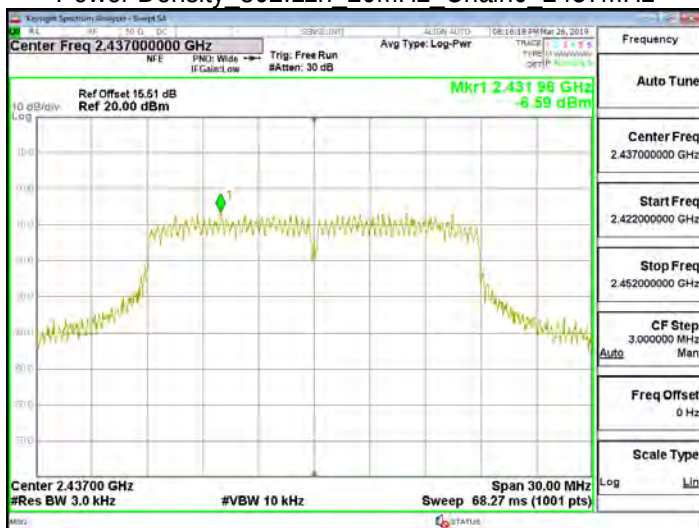
Power Density 802.11n 20MHz Chain0 2412MHz



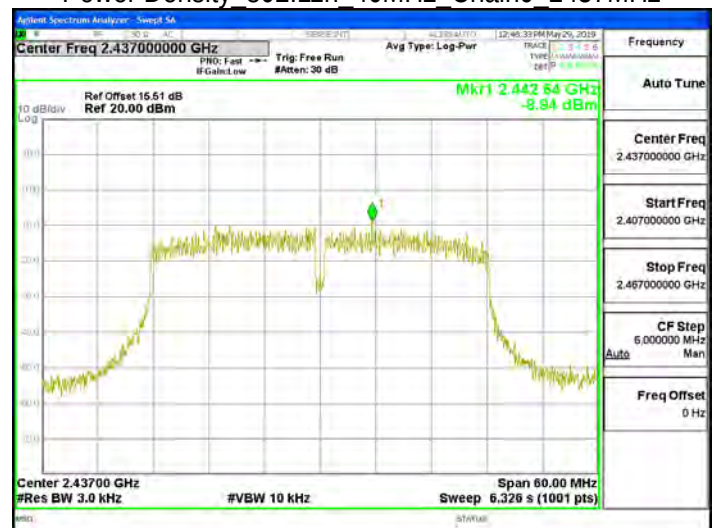
Power Density 802.11n 40MHz Chain0 2422MHz



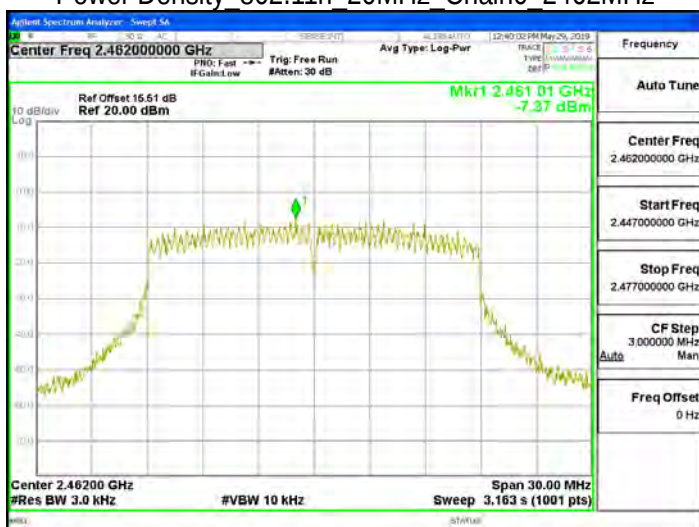
Power Density 802.11n 20MHz Chain0 2437MHz



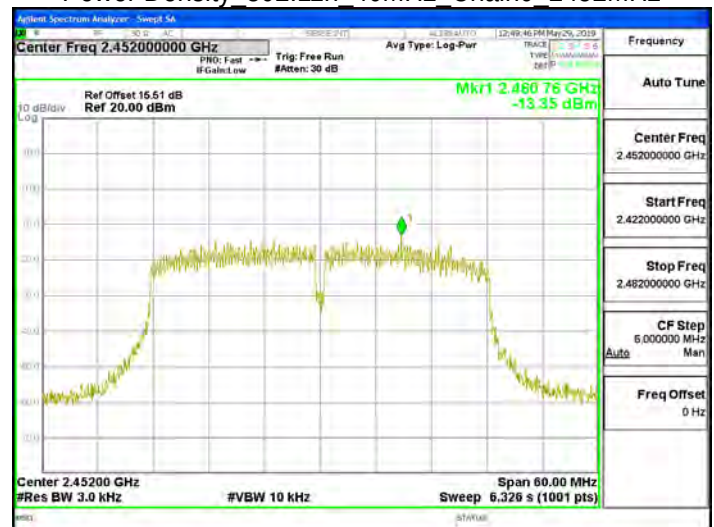
Power Density 802.11n 40MHz Chain0 2437MHz



Power Density 802.11n 20MHz Chain0 2462MHz



Power Density 802.11n 40MHz Chain0 2452MHz



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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

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

~ End of Report ~

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