

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

FCC Applicant: Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, China

IC Applicant: Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, China (Peoples Republic Of)

Product Name: Notebook Computer

Brand Name: HUAWEI, HONOR

FCC Model No.: HBL-W19, HBL-W09, HBL-W29, HBL-WXXXXX (X Can be 0-9, A-Z, a-z, blank or symbol "-")

IC Model No.: HBL-W19, HBL-W09, HBL-W29

Model Difference: For the marketing purpose, only different model designations on the marking plate for different markets. No RF concern.

Report Number: T190226W02-RP1

FCC ID: QISKPR-WX9

IC: 6369A-KPRWX9

FCC Rule Part: §15.247, Cat: DTS

IC Rule Part: RSS-247 issue 2 Feb 2017

Issue Date: Apr. 10, 2019

Date of Test: Feb. 27, 2019 ~ Mar. 15, 2019

Date of EUT Received: Feb. 27, 2019

Issued by Compliance Certification Services Inc. Wugu Lab.
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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.

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Henry Chiang

Tested By:

Henry Chiang / Engineer

Kevin Tsai

Approved By:

Kevin Tsai / Deputy Manager



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190226W02-RP1	Rev.00	Initial creation of document	All	Mar. 21, 2019	Elle Chang
T190226W02-RP1	Rev.01	Update IC Model number	5	Apr. 10, 2019	Elle Chang

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	Notebook Computer	
Brand Name:	HUAWEI, HONOR	
FCC Model No.:	HBL-W19, HBL-W09, HBL-W29, HBL-WXXXXX (X Can be 0-9, A-Z, a-z, blank or symbol "-")	
IC Model No.:	HBL-W19, HBL-W09, HBL-W29	
Model Difference:	For the marketing purpose, only different model designations on the marking plate for different markets. No RF concern.	
Product SW/HW version:	1809 (OS Build 17763.253) / C3A	
Radio SW/HW version:	Wi-Fi Component: 20 / Wi-Fi Component: 9560	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	15.28Vdc from Rechargeable Li-ion Battery or 5Vdc / 9Vdc / 12Vdc / 15Vdc / 20Vdc from AC/DC Adapter.	
	Battery:	Model No.: HB6081V1ECW-41, Supplier: HUAWEI
	Adapter:	Model No.: HW-200325YYY (Y=0-9,A-Z or blank), Supplier: HUAWEI

WLAN 2.4GHZ:

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Rated Power in dBm (EIRP)	Type of Emission	Modulation Technology
802.11b	2412-2462	11	19.74	20.95	14M1G1D	DSSS
802.11g			21.58	20.87	18M3D1D	OFDM
802.11n HT20			21.56	20.82	18M5D1D	
802.11n HT40	2422-2452	7	21.56	19.86	36M7D1D	
Antenna Designation:	PIFA Antenna, Main Antenna Gain: 1dBi Aux Antenna Gain: 1dBi					
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 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance v05r01.

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

RSS-247 issue 2 Feb. 2017

RSS-Gen. issue 5 Apr. 2018

ANSI C63.10:2013

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

1.3 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

Canada Registration number: 2324G

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 µH/50 ohm 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.

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2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

2.5 Configuration of Tested System

Fig. 2-1 Radiated & Conducted Emission Configuration



Fig 2-2 AC power line Configuration

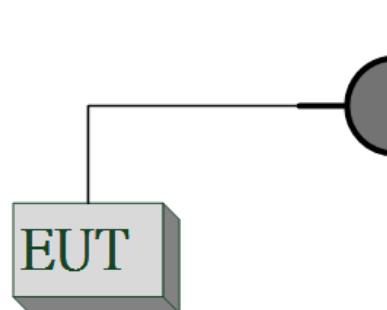


Table 2-1 Equipment Used in Tested System

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

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §5.4(4)	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.1 (1) RSS-Gen §6.7	6dB & 99% Emission Bandwidth	Compliant
§15.247(d)	RSS-247 §5.5 RSS-Gen §8.10	Conducted Band Edge and Spurious Emission	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2(2)	Power Spectral Density	Compliant
§15.203 §15.247(b)	RSS- Gen §6.8	Antenna Requirement	Compliant

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		

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting 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.
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.

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:

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	1, 6, 11	OFDM	6	Aux
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 8	Aux

RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	1	Aux
802.11g	1 to 11	1, 6, 11	OFDM	6	Aux
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 8	Aux
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 8	Aux

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.

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	11	Aux
802.11g	1 to 11	1, 6, 11	OFDM	54	Aux
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 8	Aux
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 8	Aux

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5 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575 dB
Peak Output Power	+/- 1.92 dB
6dB Bandwidth	+/- 61.248 Hz
100 kHz Bandwidth of Frequency Band Edges	+/- 1.92 dB
Peak Power Density	+/- 1.996 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(μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2 Measurement Equipment Used

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

6.3 EUT Setup

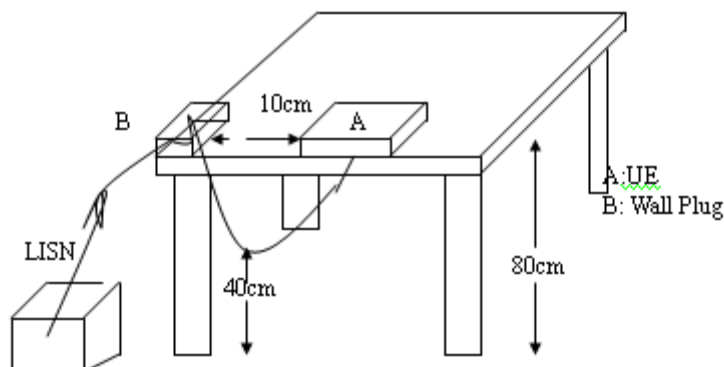
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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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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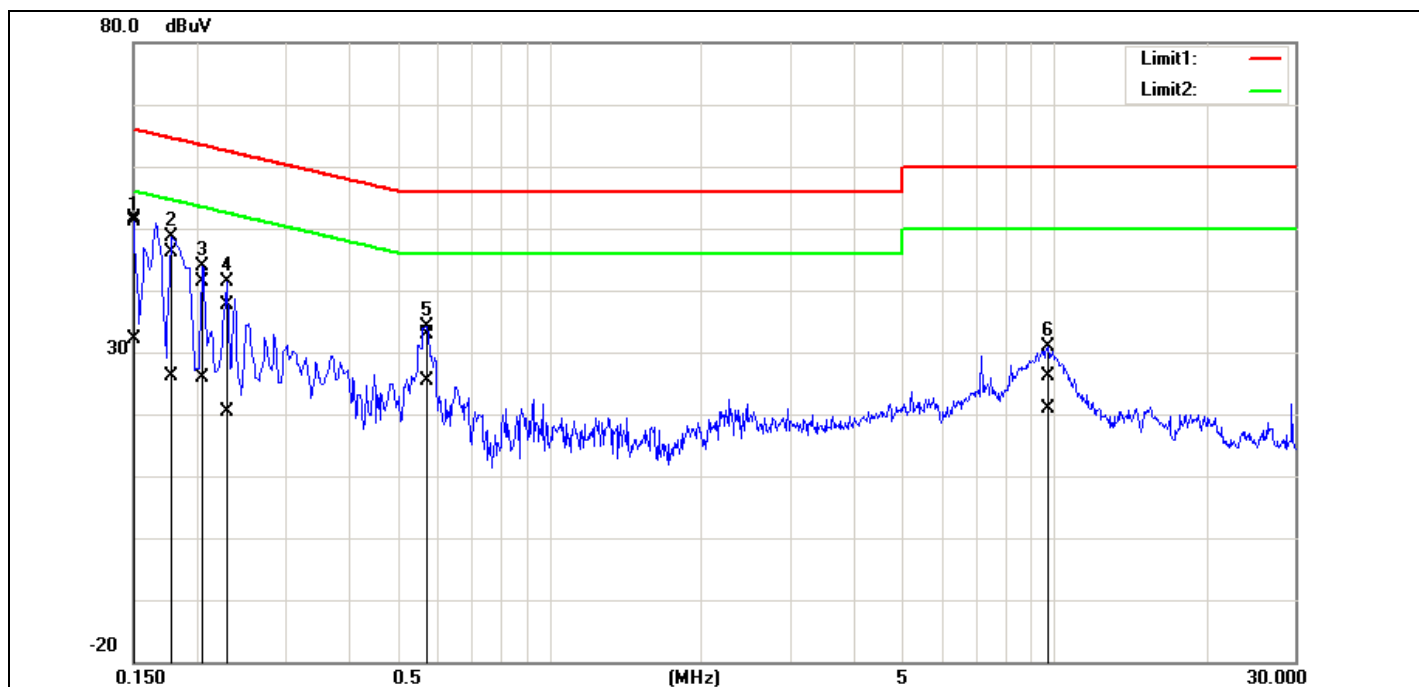
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Job No.:	T190226W02-RP1-4	Date:	2019/3/12
Company:	HUAWEI	Time:	AM 08:54:00
Standard:	NCC/FCC/IC QP	Temp.(°C)/Hum.(%)	23(°C)/60%
Test item:	Conduction test	Test By:	Henry
Line:	L1	Test Voltage:	AC 120V/60Hz
Model:	H97		

Description:



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBμV)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dBμV)	(dB)	(dB)	
1*	0.1500	51.42	31.90	0.16	51.58	32.06	65.99	56.00	-14.41	-23.94	Pass
2	0.1785	45.95	26.01	0.15	46.10	26.16	64.55	54.56	-18.45	-28.40	Pass
3	0.2060	41.25	25.81	0.15	41.40	25.96	63.36	53.37	-21.96	-27.41	Pass
4	0.2300	37.44	20.33	0.15	37.59	20.48	62.45	52.45	-24.86	-31.97	Pass
5	0.5740	32.65	25.29	0.16	32.81	25.45	56.00	46.00	-23.19	-20.55	Pass
6	9.7299	25.79	20.41	0.45	26.24	20.86	60.00	50.00	-33.76	-29.14	Pass

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Job No.: T190226W02-RP1~4

Date: 2019/3/12

Company: HUAWEI

Time: AM 08:57:33

Standard: NCC/FCC/IC QP

Temp.(°C)/Hum.(%): 23(°C)/60%

Test item: Conduction test

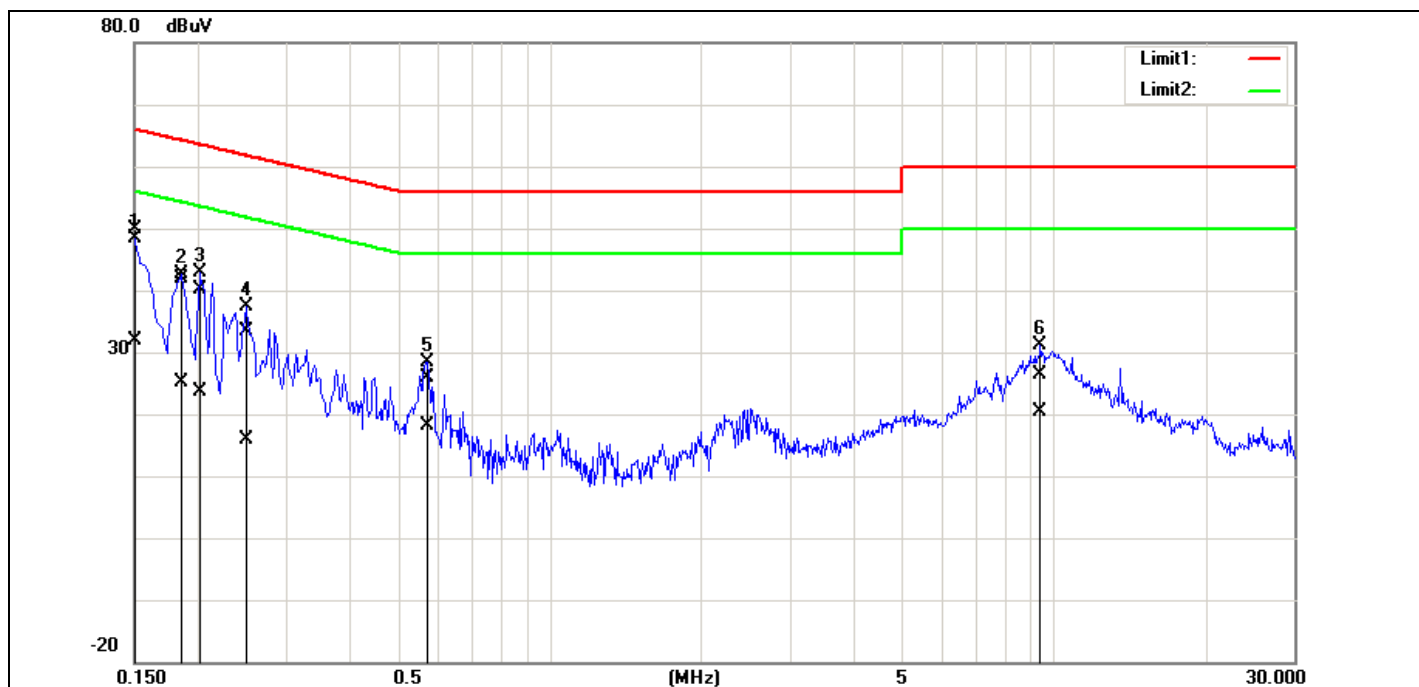
Test By: Henry

Line: N

Test Voltage: AC 120V/60Hz

Model: H97

Description:



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1500	49.79	31.63	0.16	49.95	31.79	65.99	56.00	-16.04	-24.21	Pass
2	0.1860	41.75	25.00	0.15	41.90	25.15	64.21	54.21	-22.31	-29.06	Pass
3	0.2020	39.91	23.41	0.15	40.06	23.56	63.52	53.53	-23.46	-29.97	Pass
4	0.2500	33.26	15.85	0.15	33.41	16.00	61.75	51.76	-28.34	-35.76	Pass
5	0.5740	25.78	18.09	0.16	25.94	18.25	56.00	46.00	-30.06	-27.75	Pass
6	9.4100	25.82	19.96	0.44	26.26	20.40	60.00	50.00	-33.74	-29.60	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:

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

Measurement Procedure:

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

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)	1/T (kHz)	VBW setting (kHz)
802.11b	97.00	0.13	0.08	1.00
802.11g	84.69	0.72	0.49	1.00
802.11n_20	84.69	0.72	0.52	1.00
802.11n_40	84.24	0.74	1.07	2.00

$$b = 97\%, g = 84.69\%, n_{ht_20} = 84.69\%$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.97) = 0.13$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8469) = 0.72$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8469) = 0.72$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8424) = 0.74$$

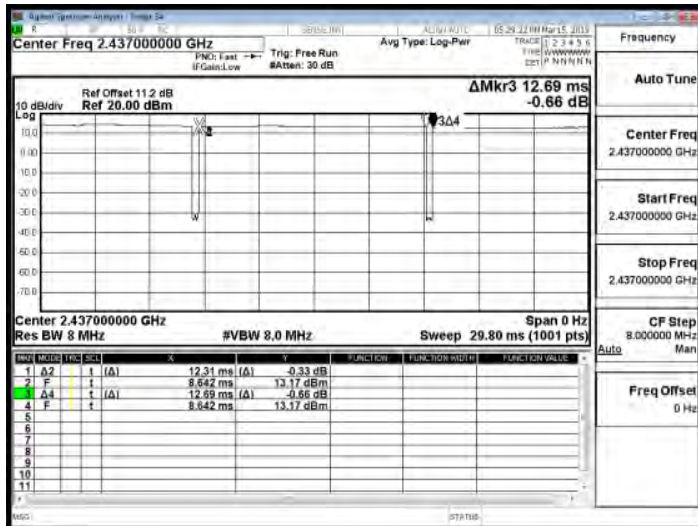
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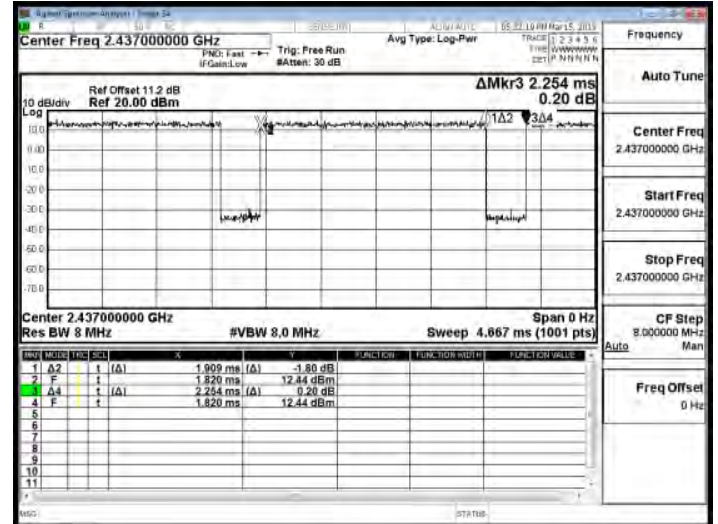
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

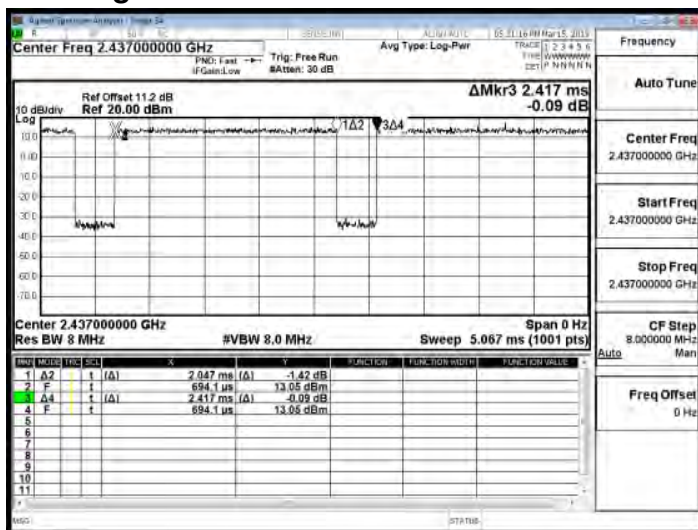
802.11 b



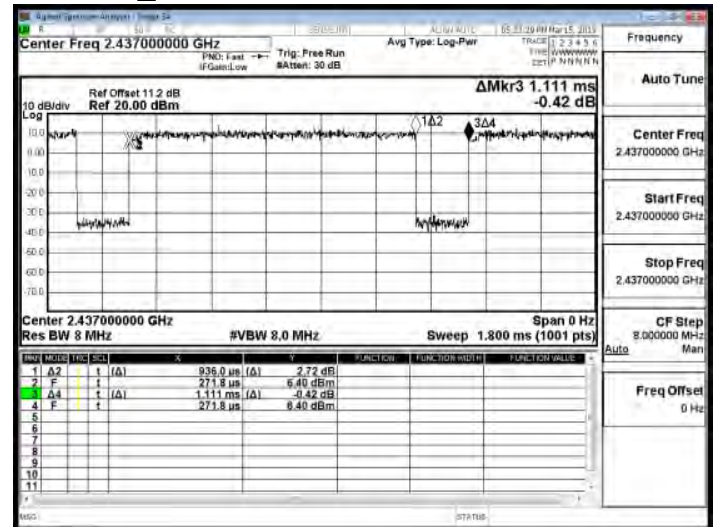
802.11 n_20 MHz



802.11 g



802.11 n_40 MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

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

Per RSS-247 §5.4(d)

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

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.

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

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

[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.]

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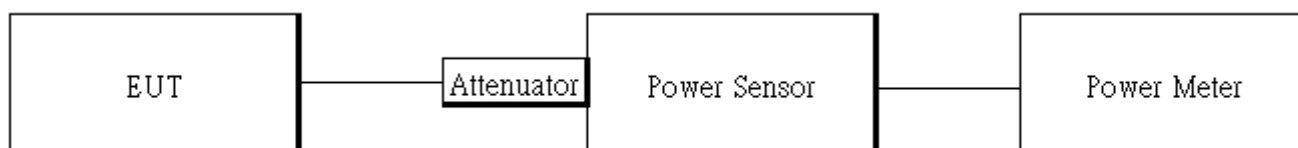
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8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1242004	2018/10/23	2019/10/22
Power Sensor	Anritsu	MA2411B	1207365	2018/10/23	2019/10/22
Power Sensor	Anritsu	MA2411B	1207368	2018/10/24	2019/10/23
Attenuator	Marvelous	MVE2213-10	RF80	2019/02/26	2020/02/25
DC Power Supply	Agilent	E3640A	KR93300208	2018/08/15	2019/08/14

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

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

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

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

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8.5 Measurement Result

802.11b Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	16.31	30.00	PASS
6	2437	1	19.56	30.00	PASS
11	2462	1	16.76	30.00	PASS
802.11b Ch0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	13.91	30.00	PASS
6	2437	1	16.90	30.00	PASS
11	2462	1	13.95	30.00	PASS
802.11b Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	16.70	30.00	PASS
6	2437	1	19.74	30.00	PASS
11	2462	1	16.84	30.00	PASS
802.11b Ch1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	13.97	30.00	PASS
6	2437	1	16.99	30.00	PASS
11	2462	1	13.98	30.00	PASS

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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	13.24	13.76	16.52	30.00	PASS
6	2437	1	16.45	16.93	19.71	30.00	PASS
11	2462	1	13.41	13.92	16.68	30.00	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	10.42	11.02	13.87	30.00	PASS
6	2437	1	13.50	14.07	16.94	30.00	PASS
11	2462	1	10.40	11.08	13.90	30.00	PASS

802.11g Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	19.91	30.00	PASS
6	2437	6	21.27	30.00	PASS
11	2462	6	19.24	30.00	PASS
802.11g Ch0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	13.91	30.00	PASS
6	2437	6	16.91	30.00	PASS
11	2462	6	13.92	30.00	PASS

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802.11g Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	19.99	30.00	PASS
6	2437	6	21.58	30.00	PASS
11	2462	6	19.34	30.00	PASS
802.11g Ch1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	13.98	30.00	PASS
6	2437	6	16.97	30.00	PASS
11	2462	6	13.96	30.00	PASS

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	15.86	16.59	19.25	30.00	PASS
6	2437	6	17.90	18.35	21.14	30.00	PASS
11	2462	6	15.84	16.34	19.11	30.00	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	9.87	10.36	13.85	30.00	PASS
6	2437	6	12.90	13.34	16.86	30.00	PASS
11	2462	6	9.89	10.42	13.90	30.00	PASS

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802.11n_HT20M Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	20.07	30.00	PASS
6	2437	MCS0	21.30	30.00	PASS
11	2462	MCS0	19.35	30.00	PASS
802.11n_HT20M Ch0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	13.89	30.00	PASS
6	2437	MCS0	16.84	30.00	PASS
11	2462	MCS0	13.90	30.00	PASS

802.11n_HT20M Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	20.14	30.00	PASS
6	2437	MCS0	21.56	30.00	PASS
11	2462	MCS0	19.43	30.00	PASS
802.11n_HT20M Ch1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	13.95	30.00	PASS
6	2437	MCS0	17.00	30.00	PASS
11	2462	MCS0	13.98	30.00	PASS

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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	16.60	17.35	20.00	30.00	PASS
6	2437	MCS8	18.01	18.41	21.22	30.00	PASS
11	2462	MCS8	15.82	16.22	19.03	30.00	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	9.82	10.43	13.87	30.00	PASS
6	2437	MCS8	12.86	13.29	16.81	30.00	PASS
11	2462	MCS8	9.86	10.35	13.84	30.00	PASS

802.11n_HT40M Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16.61	30.00	PASS
6	2437	MCS0	21.44	30.00	PASS
9	2452	MCS0	16.61	30.00	PASS
802.11n_HT40M Ch0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	10.89	30.00	PASS
6	2437	MCS0	15.88	30.00	PASS
9	2452	MCS0	10.89	30.00	PASS

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802.11n_HT40M Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16.72	30.00	PASS
6	2437	MCS0	21.56	30.00	PASS
9	2452	MCS0	16.73	30.00	PASS
802.11n_HT40M Ch1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	10.97	30.00	PASS
6	2437	MCS0	15.98	30.00	PASS
9	2452	MCS0	10.98	30.00	PASS

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	13.22	13.90	16.58	30.00	PASS
6	2437	MCS8	18.20	18.52	21.37	30.00	PASS
9	2452	MCS8	13.24	13.89	16.59	30.00	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	6.74	7.49	10.89	30.00	PASS
6	2437	MCS8	11.81	12.37	15.85	30.00	PASS
9	2452	MCS8	6.73	7.49	10.88	30.00	PASS

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

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EIRP

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	13.91	1.00	14.91	36	PASS
6	2437	1	16.90	1.00	17.90	36	PASS
11	2462	1	13.95	1.00	14.95	36	PASS

802.11b Ch1							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	13.97	1.00	14.97	36	PASS
6	2437	1	16.99	1.00	17.99	36	PASS
11	2462	1	13.98	1.00	14.98	36	PASS

802.11b_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	1	10.42	11.02	13.87	4.01	17.88	36	PASS
6	2437	1	13.50	14.07	16.94	4.01	20.95	36	PASS
11	2462	1	10.40	11.08	13.90	4.01	17.91	36	PASS

802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	13.91	1.00	14.91	36	PASS
6	2437	6	16.91	1.00	17.91	36	PASS
11	2462	6	13.92	1.00	14.92	36	PASS

802.11g Ch1							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	13.98	1.00	14.98	36	PASS
6	2437	6	16.97	1.00	17.97	36	PASS
11	2462	6	13.96	1.00	14.96	36	PASS

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802.11g_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	6	9.87	10.36	13.85	4.01	17.86	36	PASS
6	2437	6	12.90	13.34	16.86	4.01	20.87	36	PASS
11	2462	6	9.89	10.42	13.90	4.01	17.91	36	PASS

802.11n_HT20M Ch0									
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT	
1	2412	MCS0	13.89		1.00	14.89	36	PASS	
6	2437	MCS0	16.84		1.00	17.84	36	PASS	
11	2462	MCS0	13.90		1.00	14.90	36	PASS	

802.11n_HT20M Ch1									
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT	
1	2412	MCS0	13.95		1.00	14.95	36	PASS	
6	2437	MCS0	17.00		1.00	18.00	36	PASS	
11	2462	MCS0	13.98		1.00	14.98	36	PASS	

802.11n_HT20M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	MCS8	16.60	17.35	13.87	4.01	17.88	36	PASS
6	2437	MCS8	18.01	18.41	16.81	4.01	20.82	36	PASS
11	2462	MCS8	15.82	16.22	13.84	4.01	17.85	36	PASS

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802.11n_HT40M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	10.89	1.00	11.89	36	PASS
6	2437	MCS0	15.88	1.00	16.88	36	PASS
9	2452	MCS0	10.89	1.00	11.89	36	PASS
802.11n_HT40M Ch1							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	10.97	1.00	11.97	36	PASS
6	2437	MCS0	15.98	1.00	16.98	36	PASS
9	2452	MCS0	10.98	1.00	11.98	36	PASS

802.11n_HT40M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
3	2422	MCS8	6.74	7.49	10.89	4.01	14.90	36	PASS
6	2437	MCS8	11.81	12.37	15.85	4.01	19.86	36	PASS
9	2452	MCS8	6.73	7.49	10.88	4.01	14.89	36	PASS

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

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9 6DB & 99% BANDWIDTH MEASUREMENT

9.1 Standard Applicable

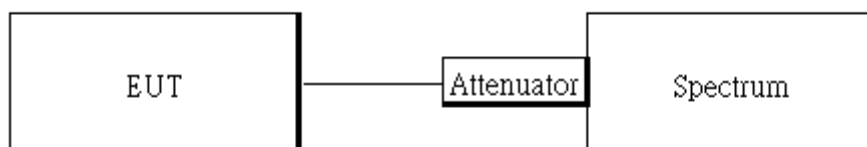
The minimum 6 dB bandwidth shall be at least 500 kHz.

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs

9.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	2018/11/21	2019/11/20
DC Power Supply	Agilent	E3640A	KR93300208	2018/08/15	2019/08/14
DC Block	PASTERNAK	PE8210	RF29	2019/02/26	2020/02/25
Attenuator	Marvelous	MVE2213-10	RF80	2019/02/26	2020/02/25

9.3 Test Set-up



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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. For 99% Bandwidth:
Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = 30M/50MHz, Detector=Sample, Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

9.5 Measurement Result

6dB Bandwidth

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	10120.00	> 500	PASS
2437	10120.00	> 500	PASS
2462	10120.00	> 500	PASS

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	10120.00	> 500	PASS
2437	10120.00	> 500	PASS
2462	10120.00	> 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16370.00	> 500	PASS
2437	16350.00	> 500	PASS
2462	16360.00	> 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16360.00	> 500	PASS
2437	16370.00	> 500	PASS
2462	16370.00	> 500	PASS

802.11_n_HT20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17590.00	> 500	PASS
2437	17580.00	> 500	PASS
2462	17560.00	> 500	PASS

802.11_n_HT20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17600.00	> 500	PASS
2437	17600.00	> 500	PASS
2462	17590.00	> 500	PASS

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802.11_n_HT40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	36010.00	> 500	PASS
2437	36320.00	> 500	PASS
2452	36340.00	> 500	PASS

802.11_n_HT40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	36320.00	> 500	PASS
2437	35730.00	> 500	PASS
2452	35740.00	> 500	PASS

802.11b Ch0		802.11b Ch1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	13.802	2412	13.387
2437	14.058	2437	13.314
2462	13.962	2462	13.389

802.11g Ch0		802.11g Ch1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	17.288	2412	17.041
2437	18.317	2437	18.315
2462	17.072	2462	17.388

802.11n_HT20M Ch0		802.11n_HT20M Ch1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	18.056	2412	18.059
2437	18.081	2437	18.540
2462	18.085	2462	18.314

802.11n_HT40M Ch0		802.11n_HT40M Ch1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2422	36.367	2422	36.536
2437	36.410	2437	36.402
2452	36.684	2452	36.451

*Refer to next page for plots

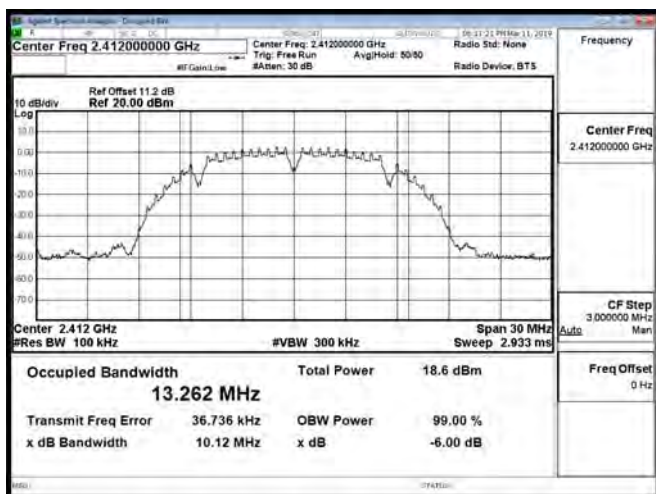
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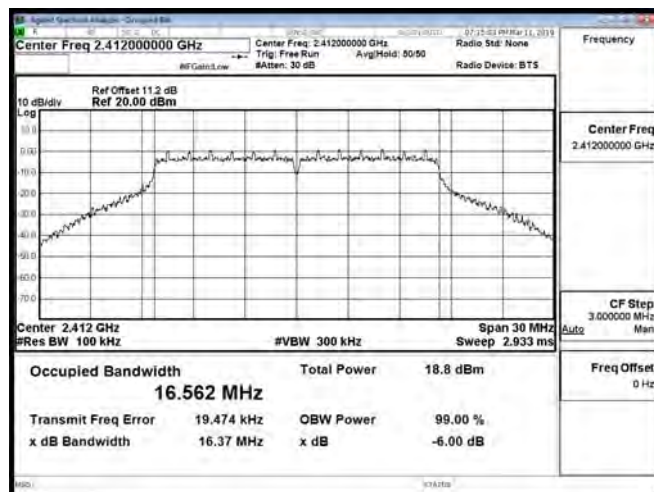
802.11b (Main)

6dB Band Width Test Data CH-Low

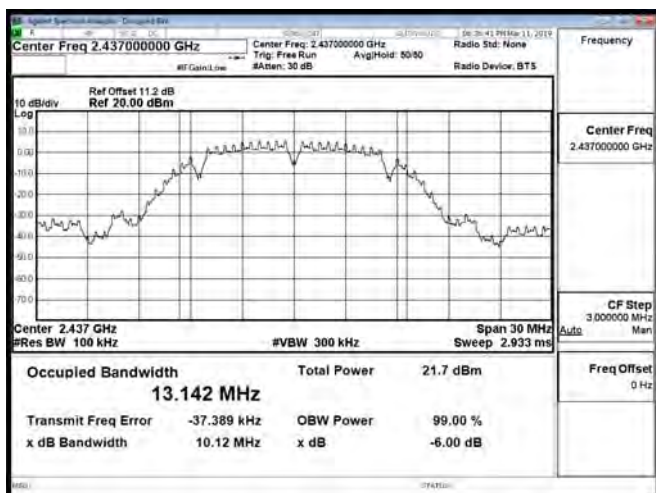


802.11g (Main)

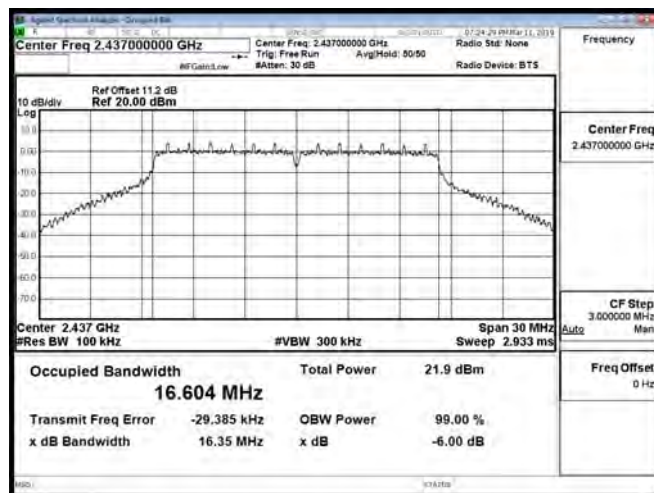
6dB Band Width Test Data CH-Low



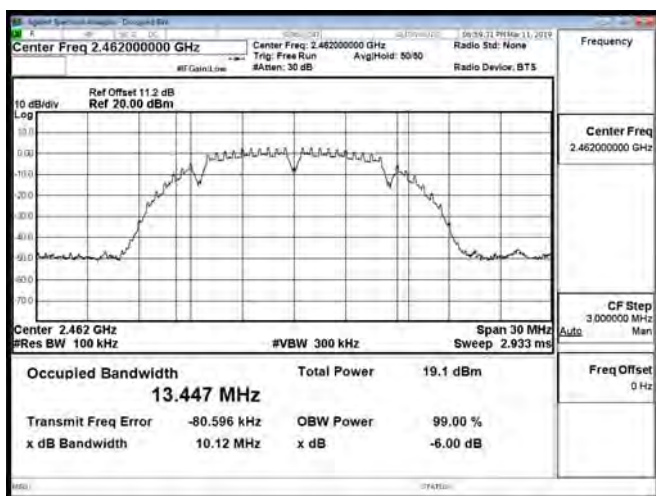
6dB Band Width Test Data CH-Mid



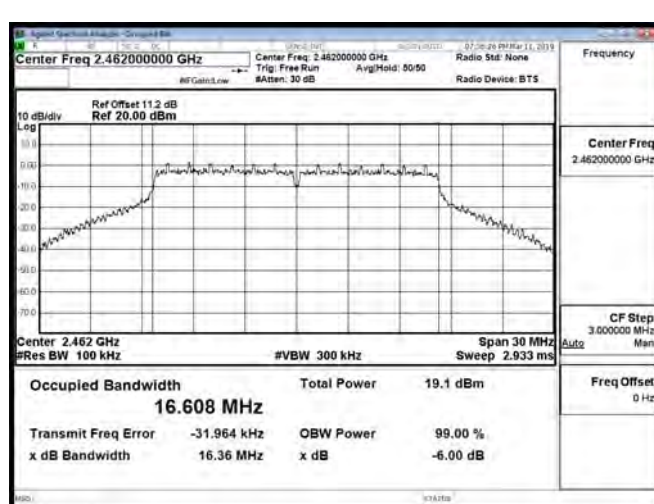
6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-High



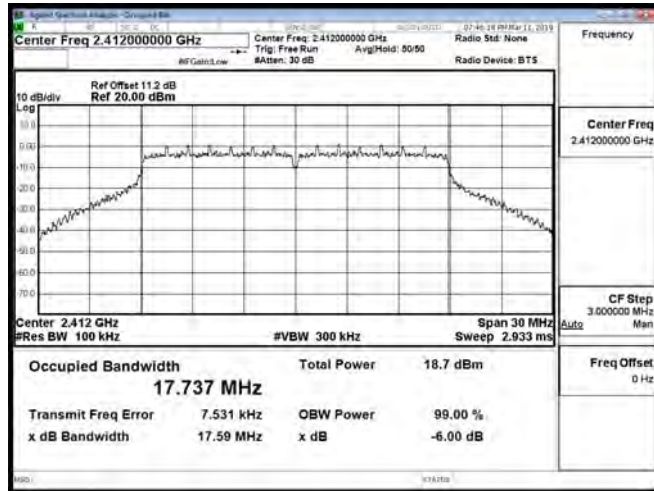
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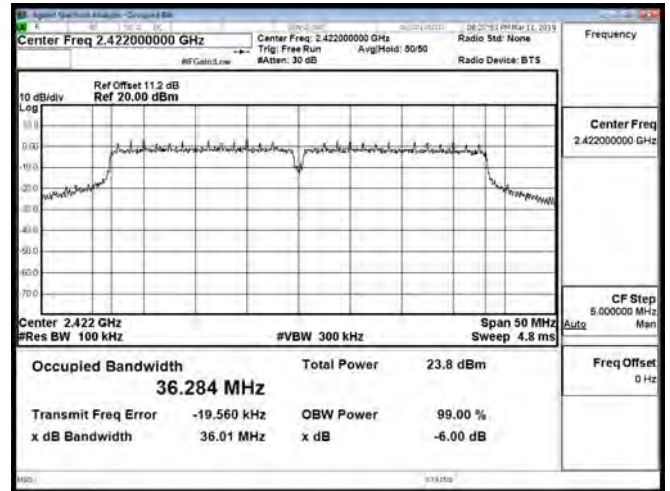
802.11n_20M (Main)

6dB Band Width Test Data CH-Low

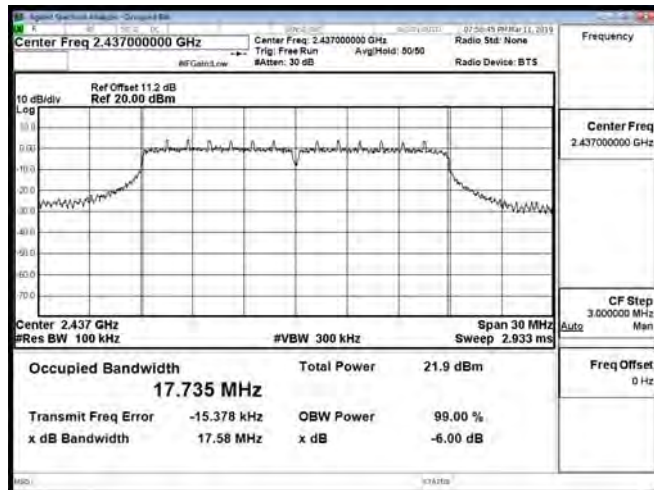


802.11n_40M (Main)

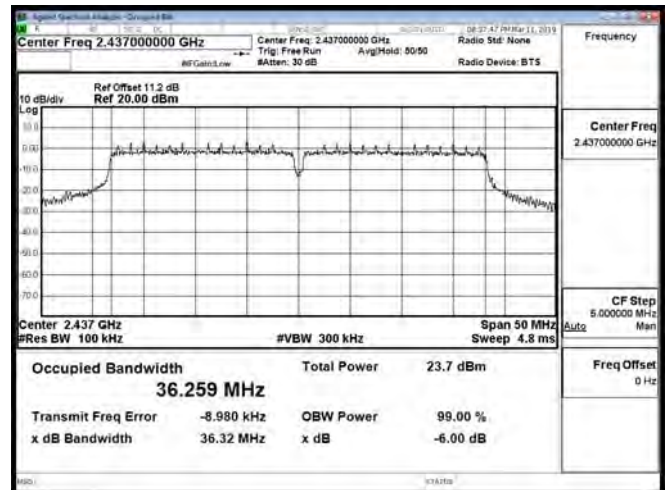
6dB Band Width Test Data CH-Low



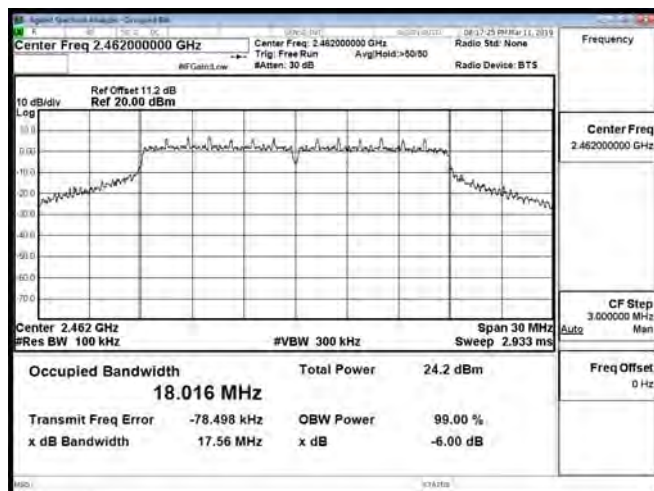
6dB Band Width Test Data CH-Mid



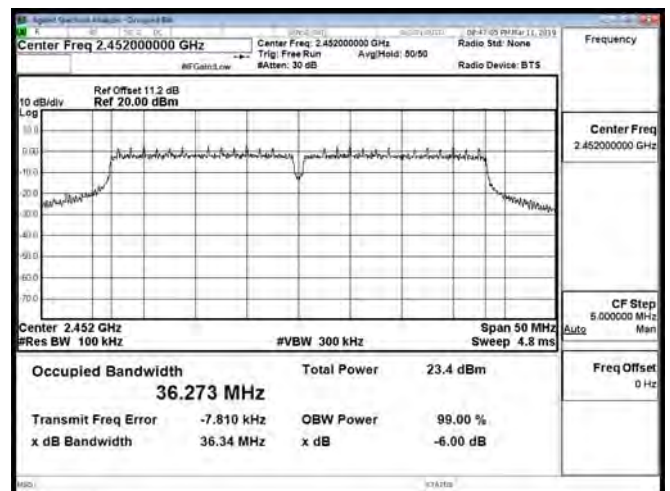
6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-High



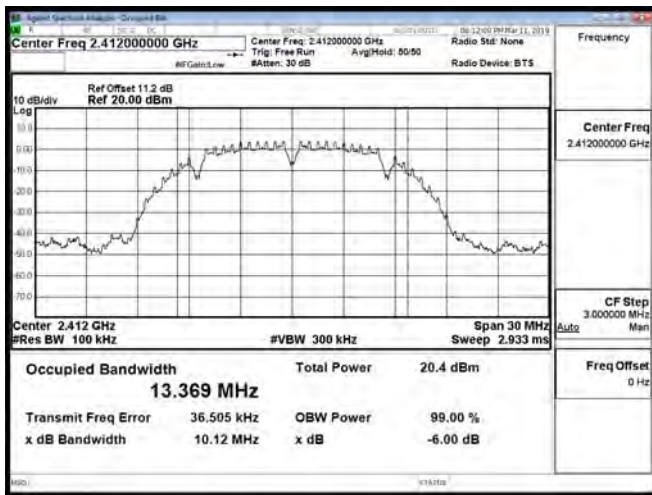
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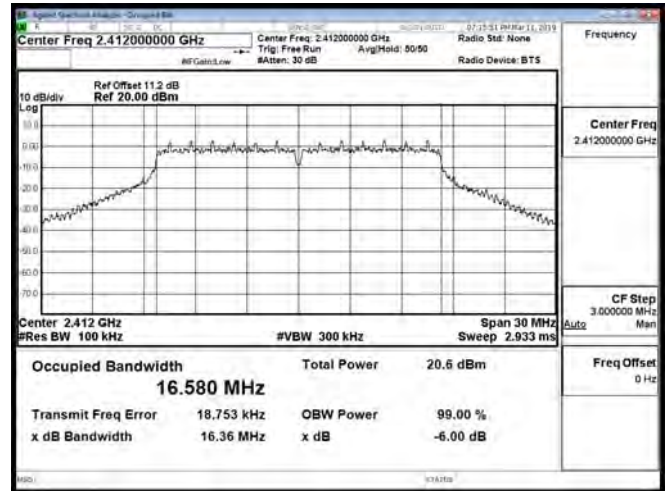
802.11b (Aux)

6dB Band Width Test Data CH-Low

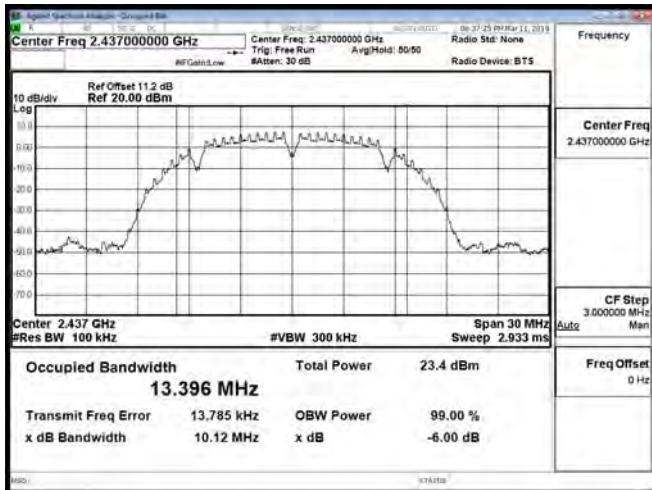


802.11g (Aux)

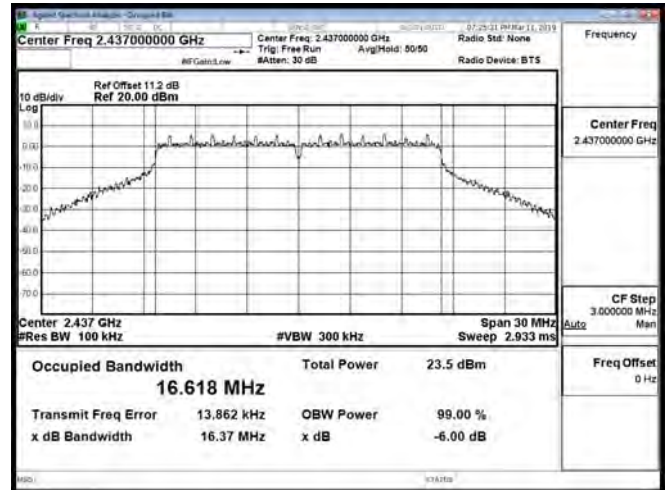
6dB Band Width Test Data CH-Low



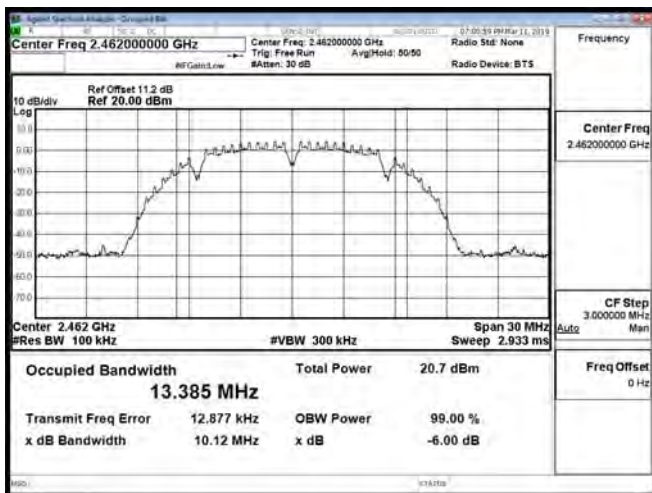
6dB Band Width Test Data CH-Mid



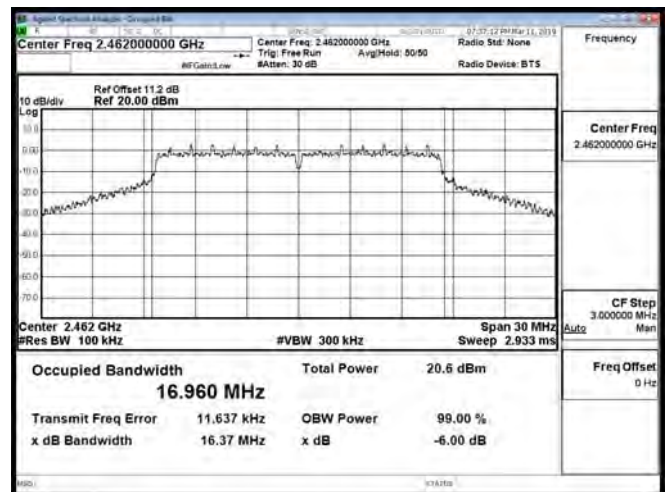
6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-High



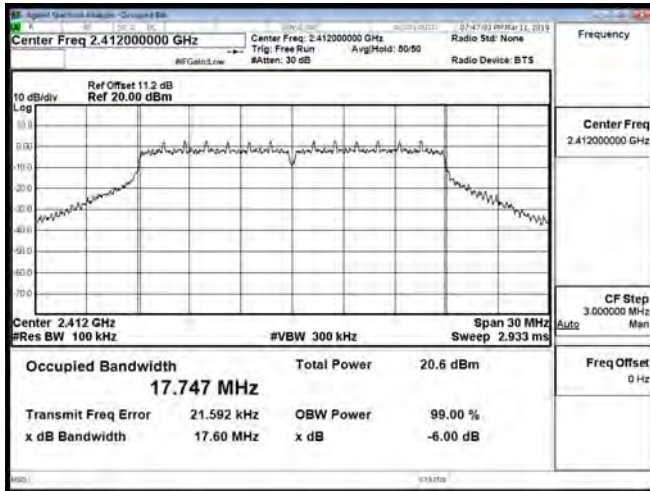
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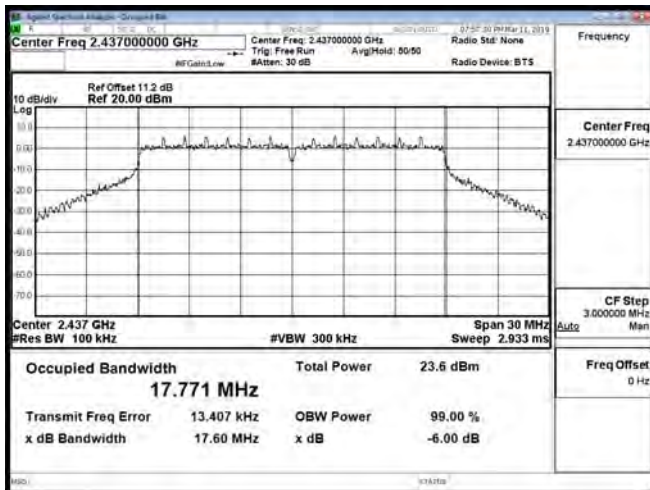
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802.11n_20M (Aux)

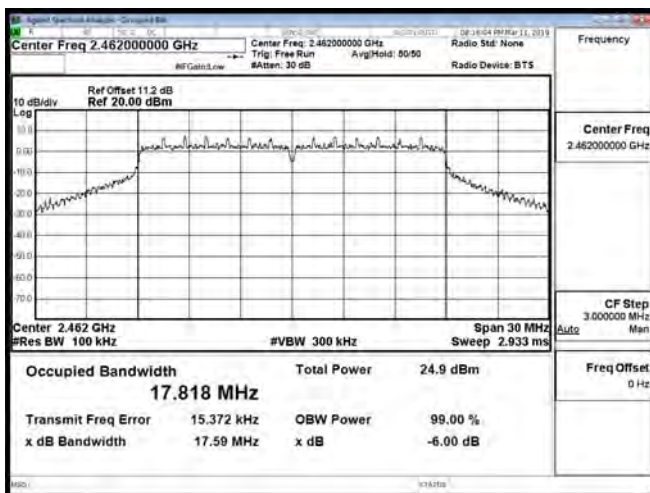
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

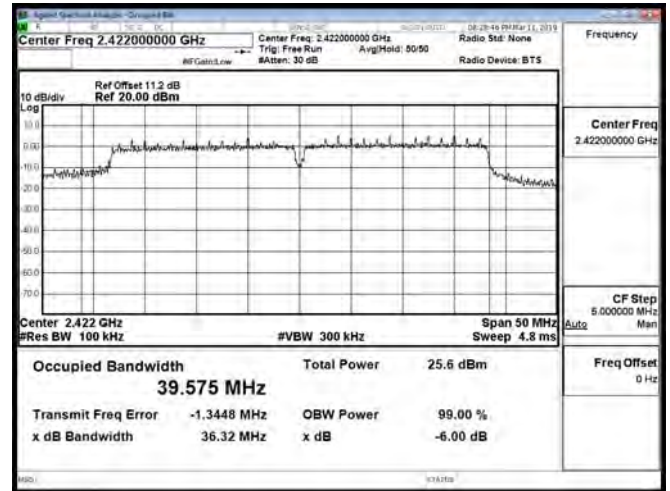


6dB Band Width Test Data CH-High

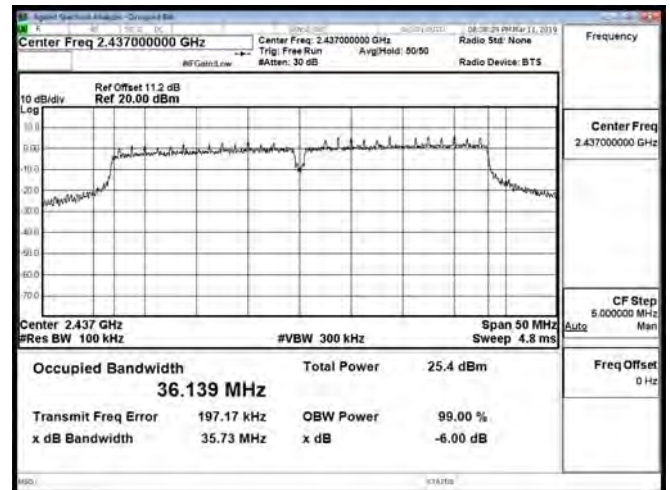


802.11n_40M (Aux)

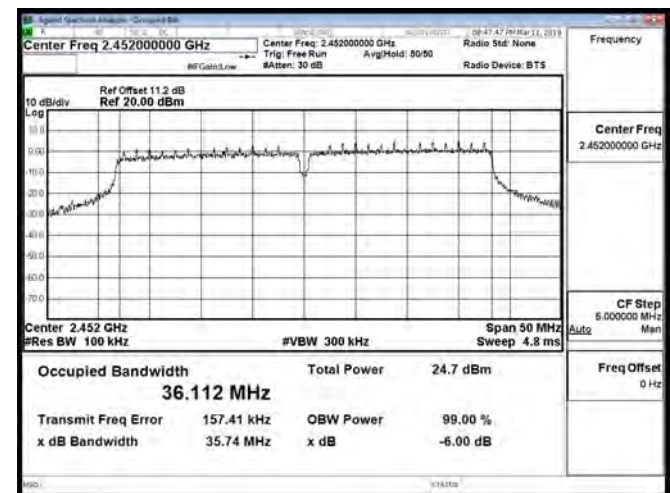
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



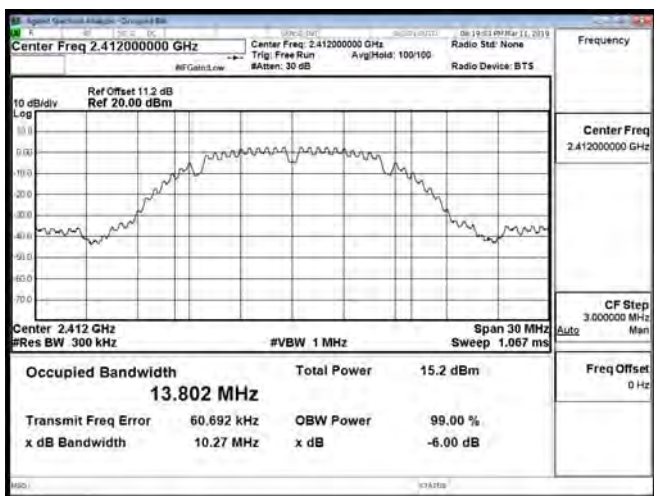
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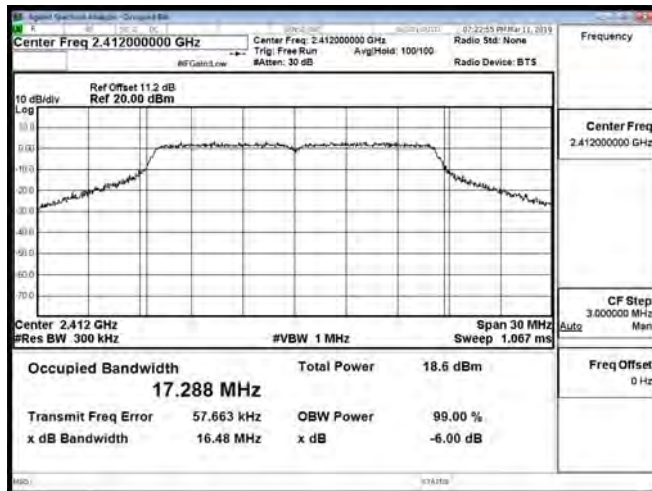
802.11b (Main)

99% Band Width Test Data CH-Low

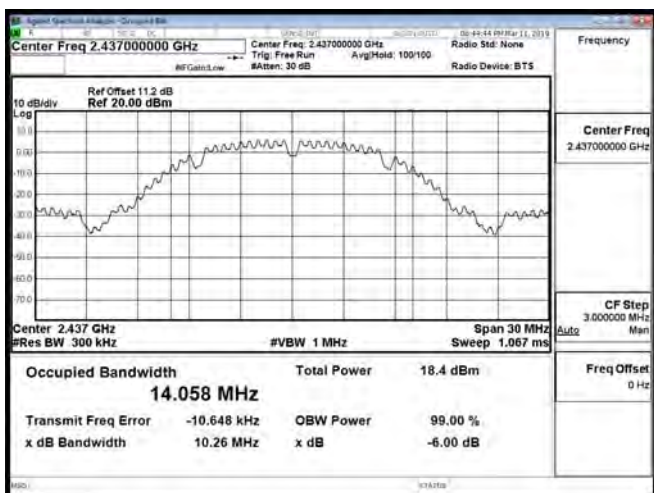


802.11g (Main)

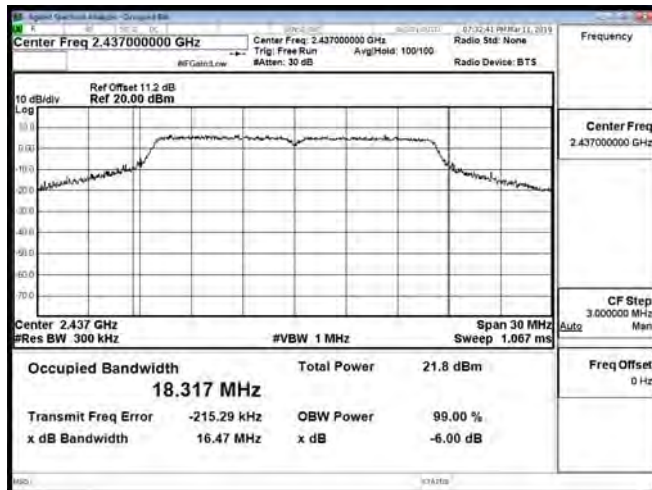
99% Band Width Test Data CH-Low



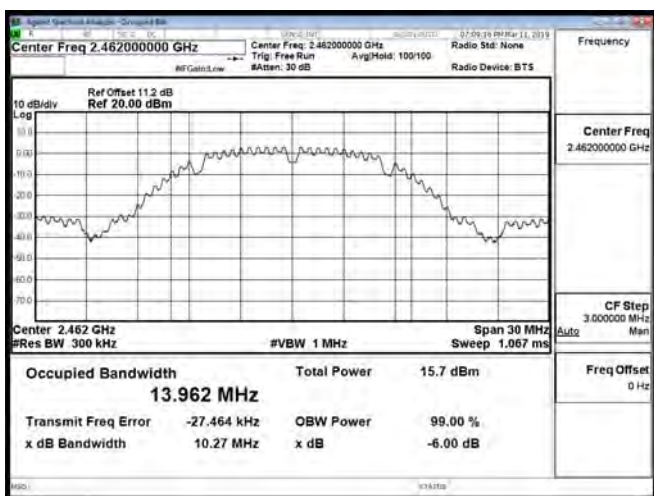
99% Band Width Test Data CH-Mid



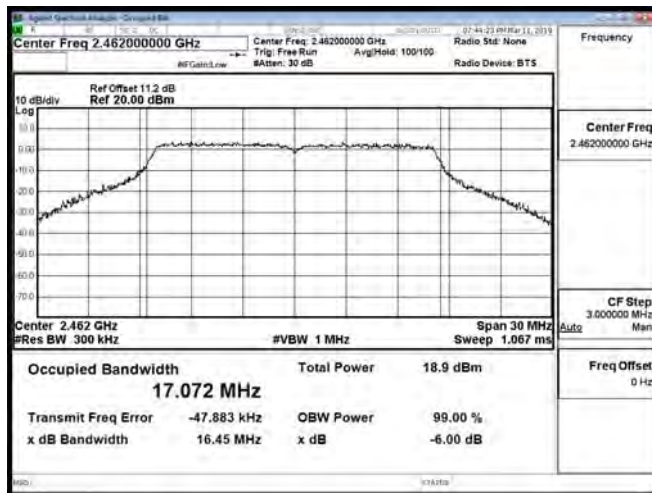
99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High



99% Band Width Test Data CH-High

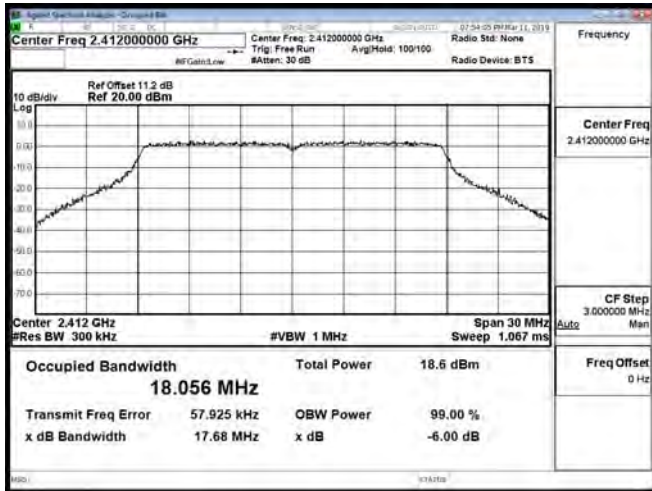


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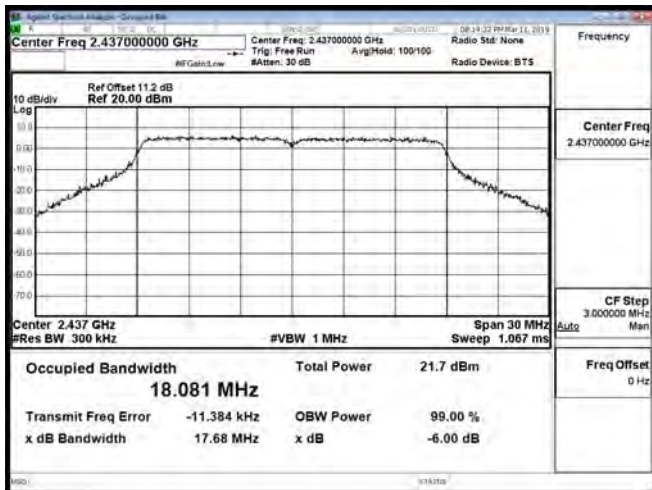
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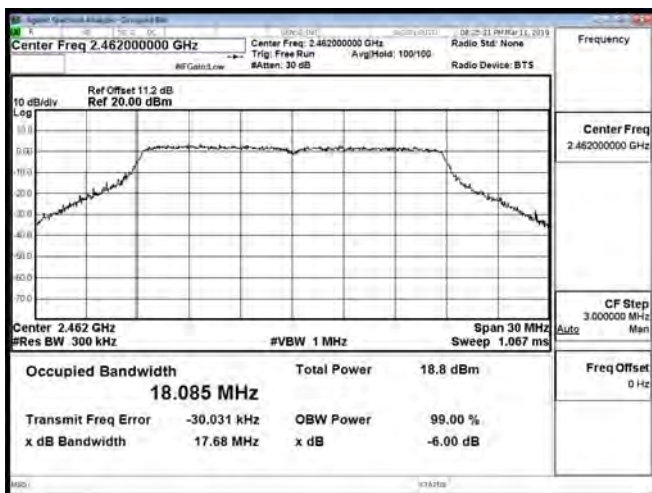
802.11n_20M (Main) 99% Band Width Test Data CH-Low



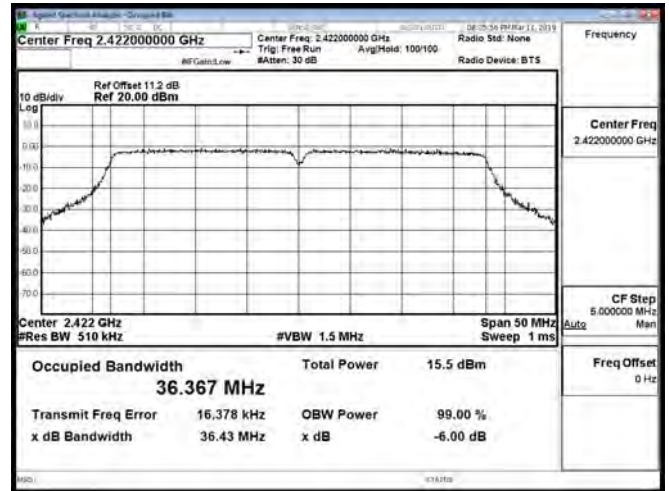
99% Band Width Test Data CH-Mid



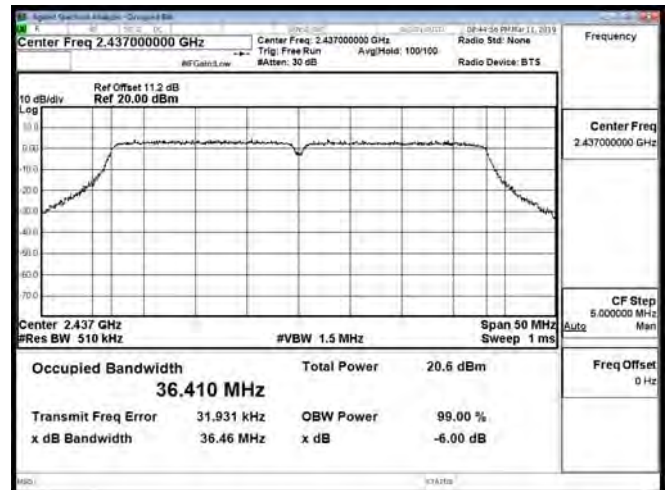
99% Band Width Test Data CH-High



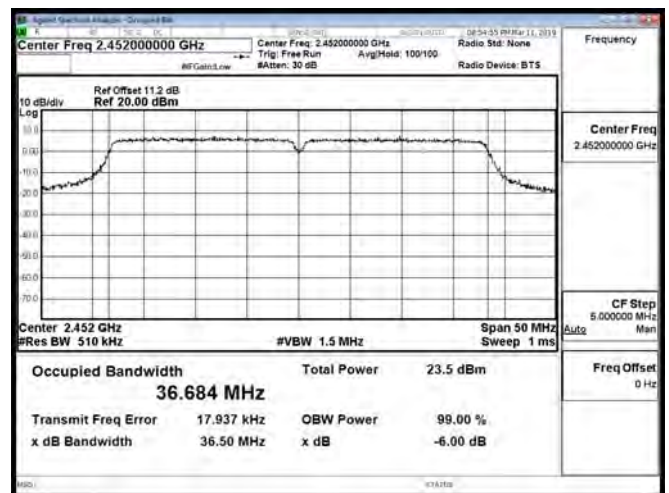
802.11n_40M (Main) 99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High



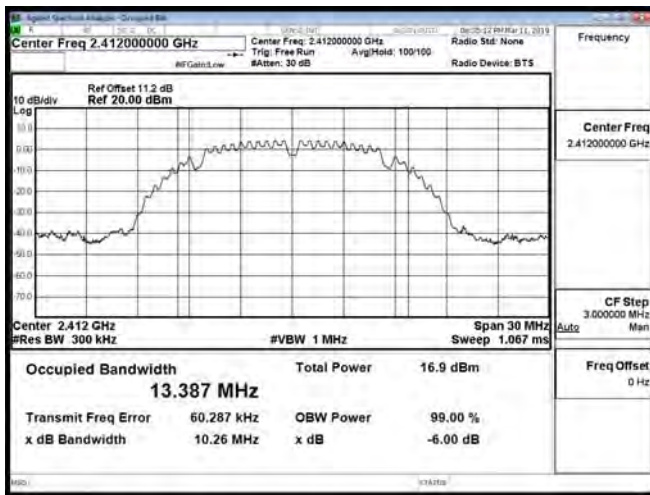
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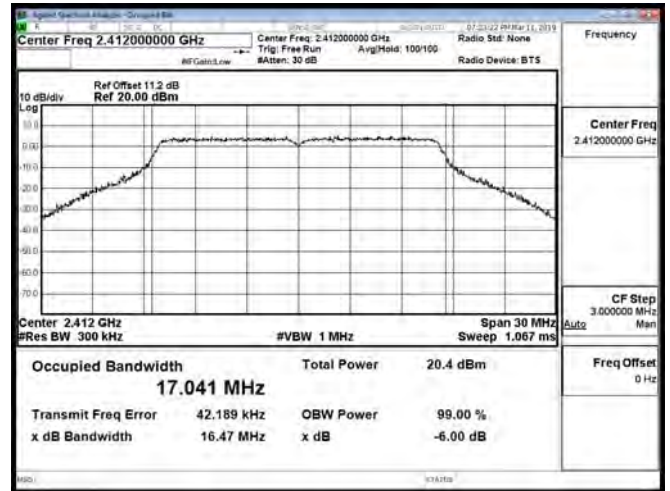
802.11b (Aux)

99% Band Width Test Data CH-Low

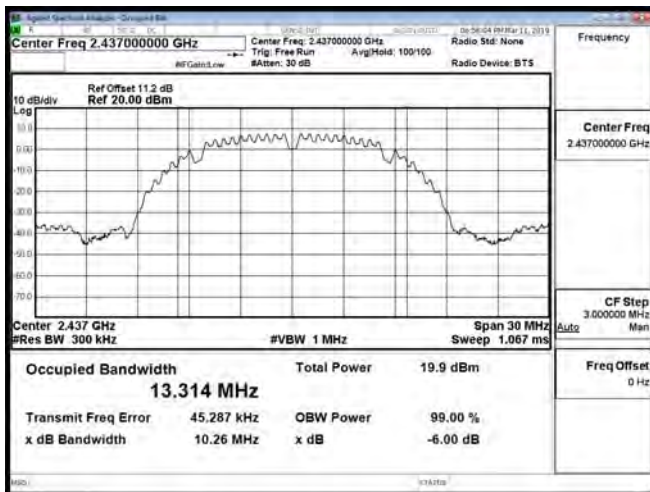


802.11g (Aux)

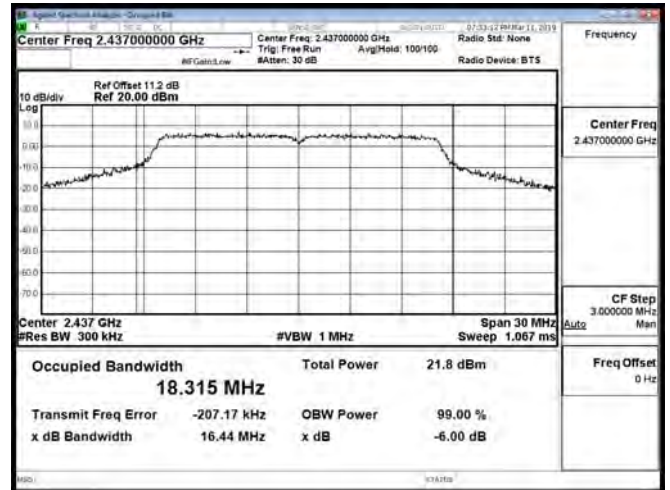
99% Band Width Test Data CH-Low



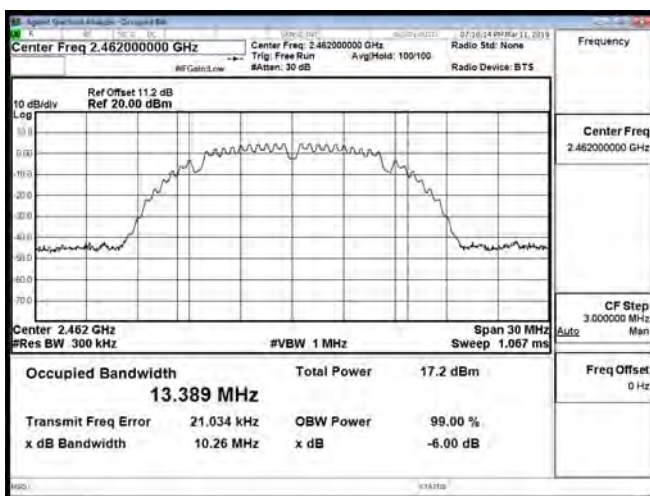
99% Band Width Test Data CH-Mid



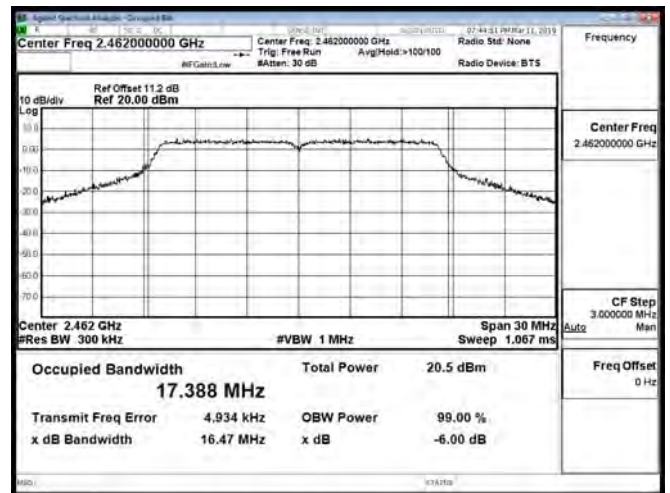
99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High



99% Band Width Test Data CH-High



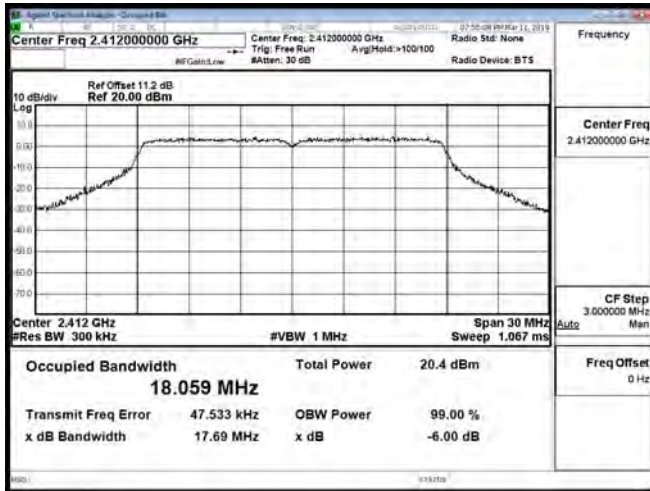
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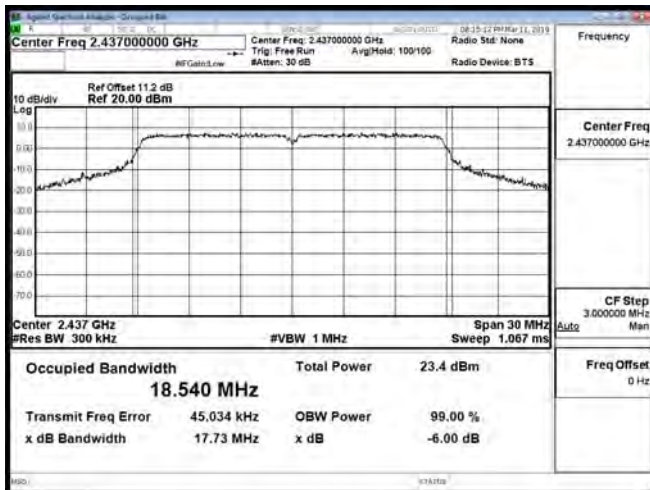
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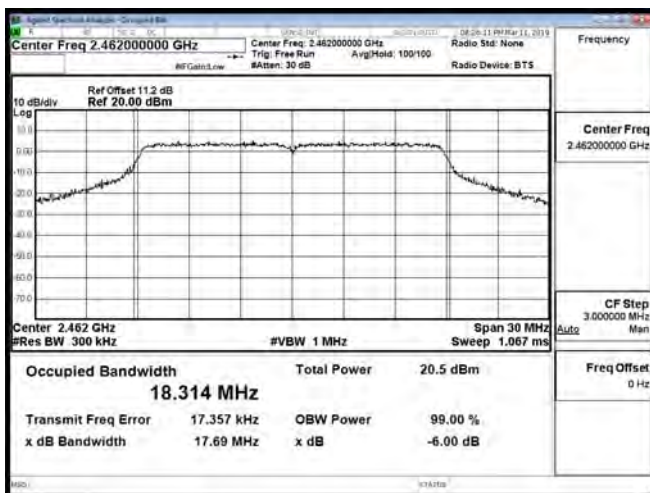
99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid

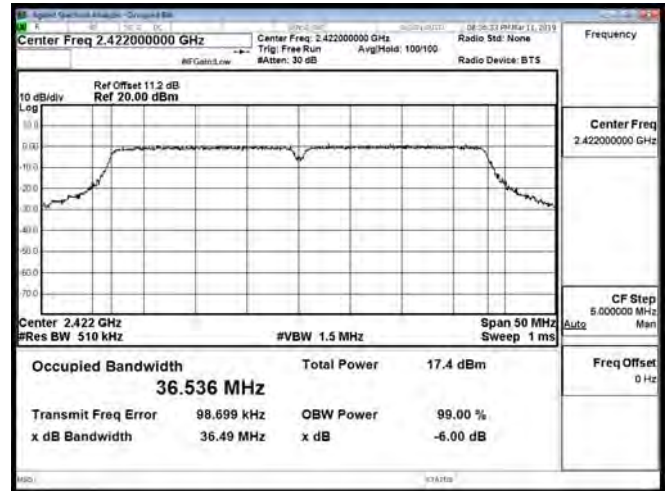


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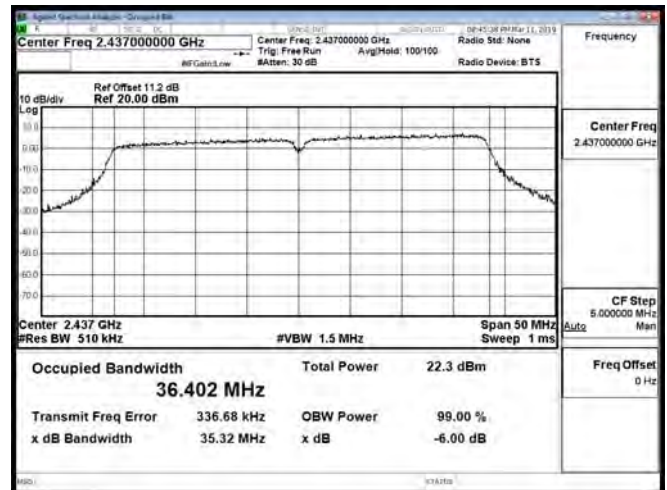


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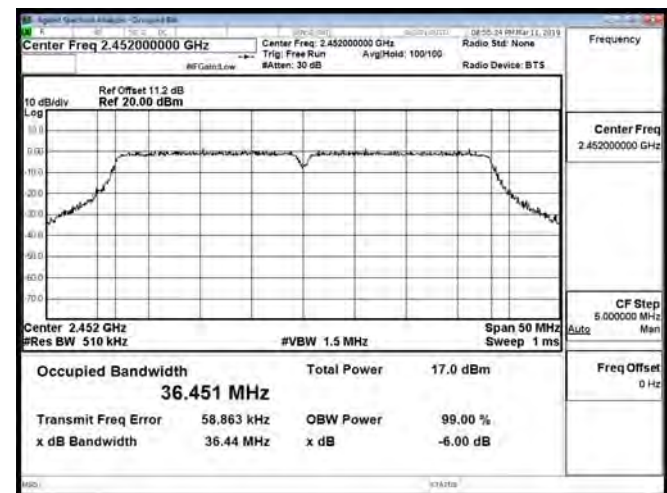
99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High



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10 CONDUCTED BAND EDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

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

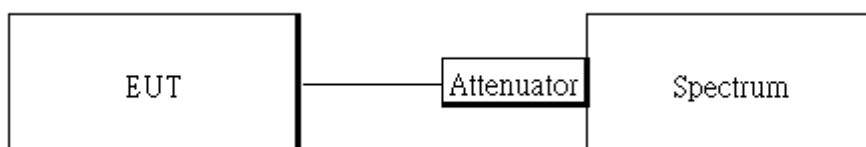
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

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

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	2018/11/21	2019/11/20
DC Power Supply	Agilent	E3640A	KR93300208	2018/08/15	2019/08/14
DC Block	PASTERNAK	PE8210	RF29	2019/02/26	2020/02/25
Attenuator	Marvelous	MVE2213-10	RF80	2019/02/26	2020/02/25

10.3 Test SET-UP



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10.4 Measurement Procedure

Conducted Band Edge Limit

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 & ANSI C63.10.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
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 & ANSI C63.10.
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.

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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	2.20	-17.80	2412	1.09	-18.91
2437	5.37	-14.63	2437	4.21	-15.79
2462	2.68	-17.32	2462	1.29	-18.71

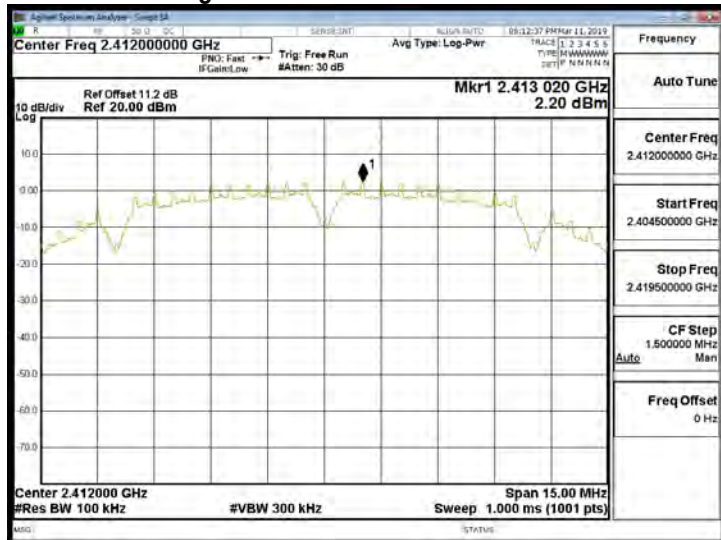
Reference Level of Limit 802.11n20 mode			Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	0.81	-19.19	2422	-5.08	-25.08
2437	4.24	-15.76	2437	-0.03	-20.03
2462	1.47	-18.53	2452	-4.98	-24.98

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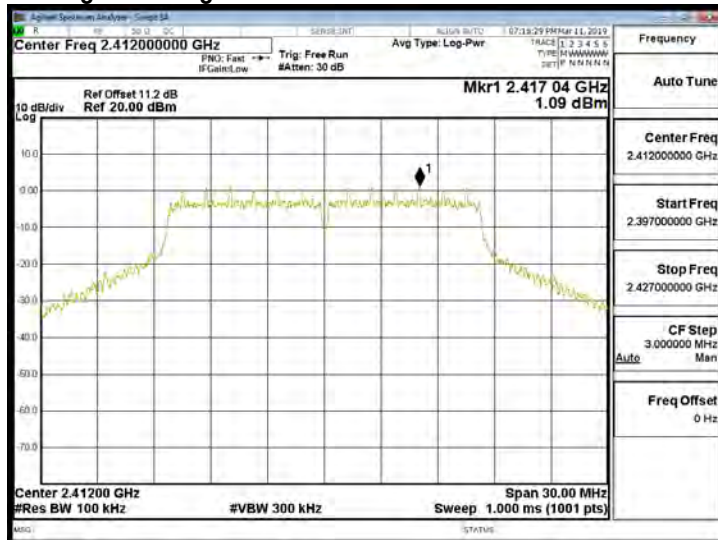
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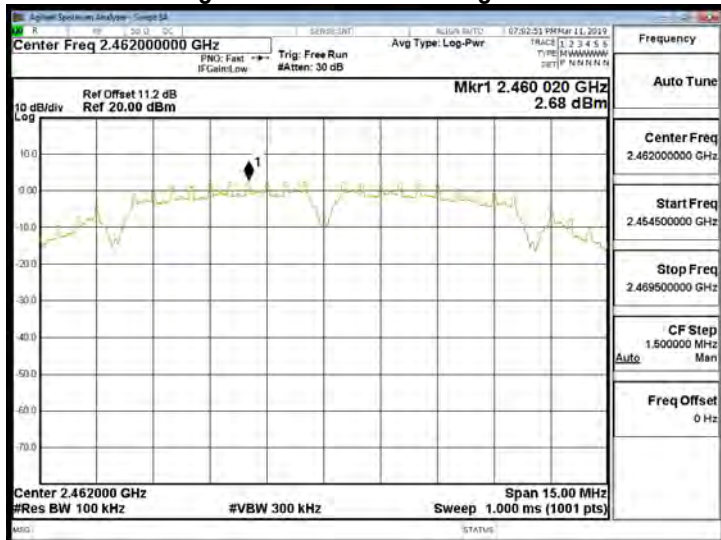
802.11b Band Edge Limit Test Data CH-Low



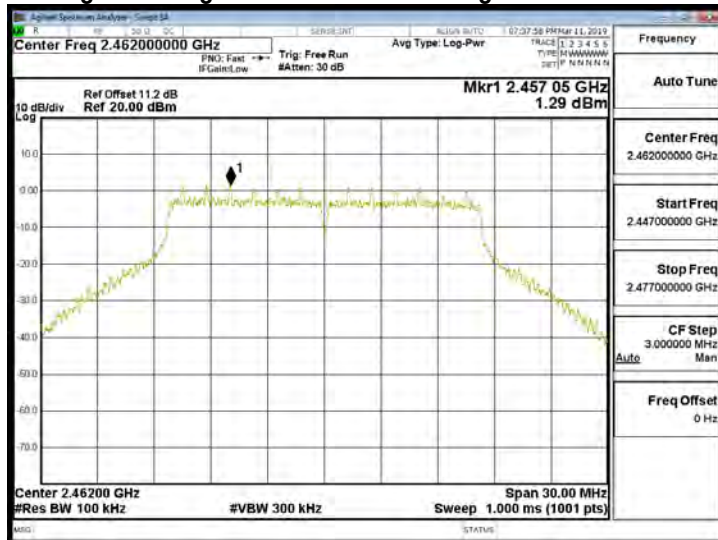
802.11g Band Edge Limit Test Data CH-Low



802.11b Band Edge Limit Test Data CH-High



802.11g Band Edge Limit Test Data CH-High

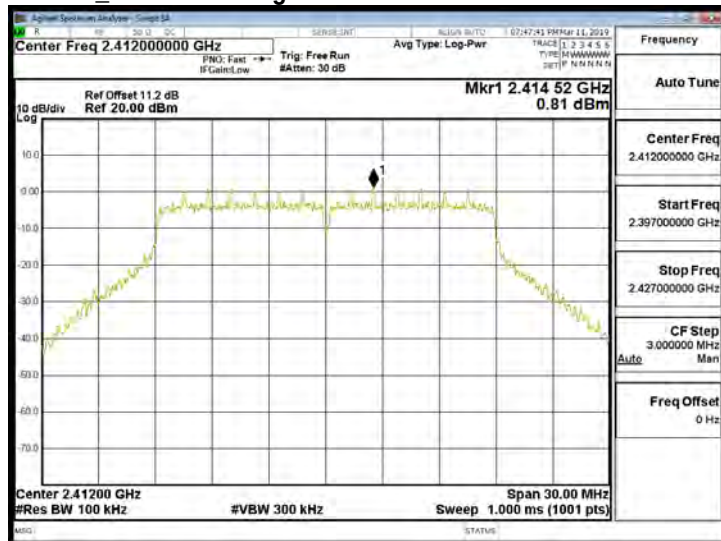


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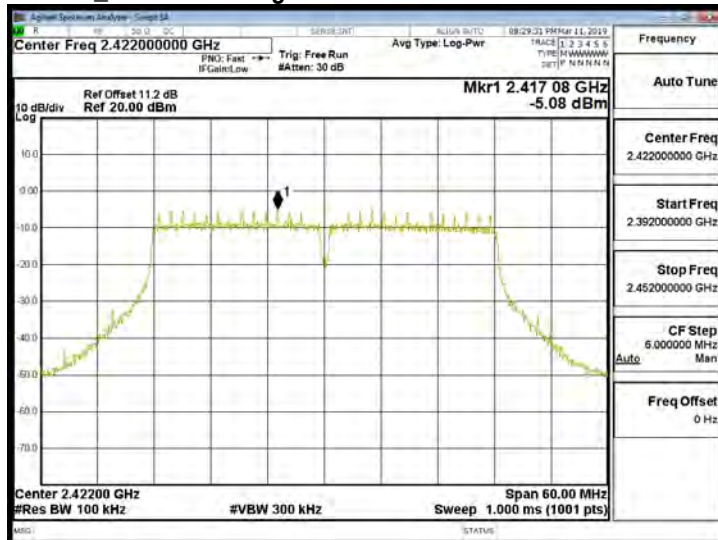
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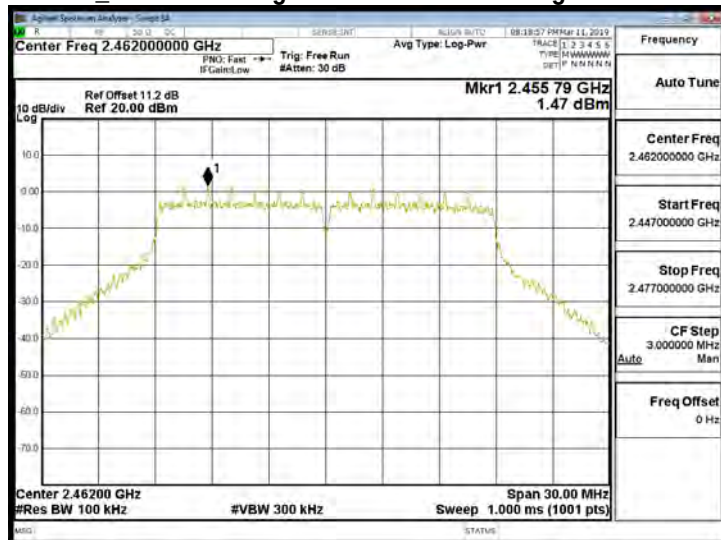
802.11n_HT20 Band Edge Limit Test Data CH-Low



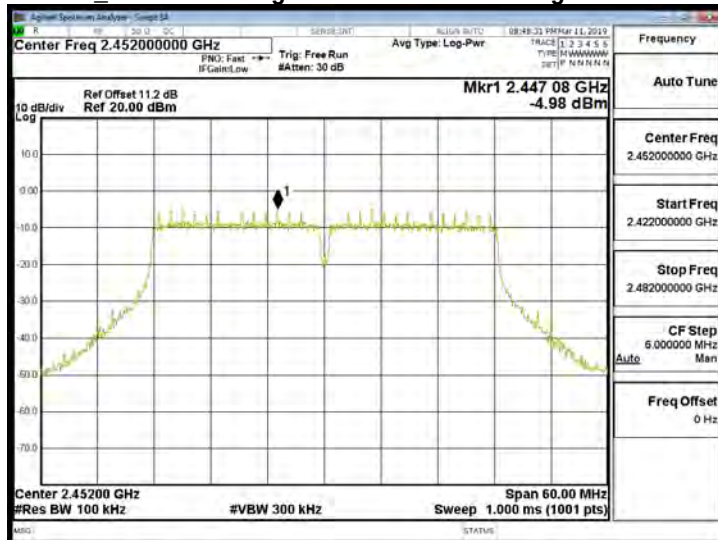
802.11n_HT40 Band Edge Limit Test Data CH-Low



802.11n_HT20 Band Edge Limit Test Data CH-High



802.11n_HT40 Band Edge Limit Test Data CH-High



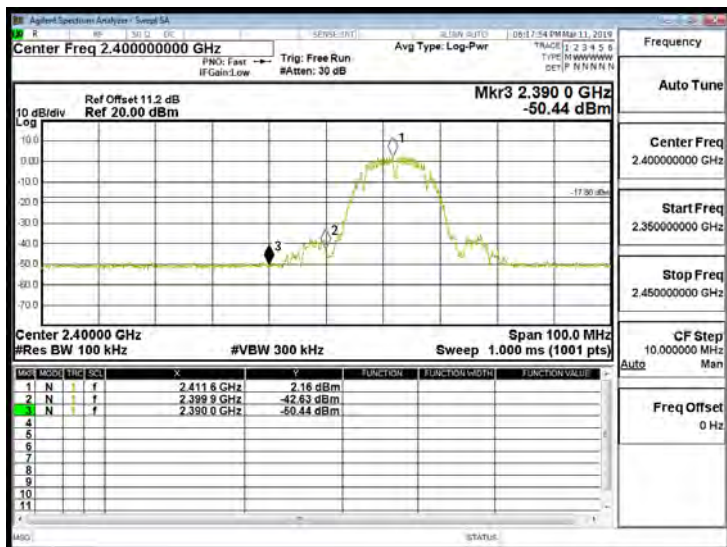
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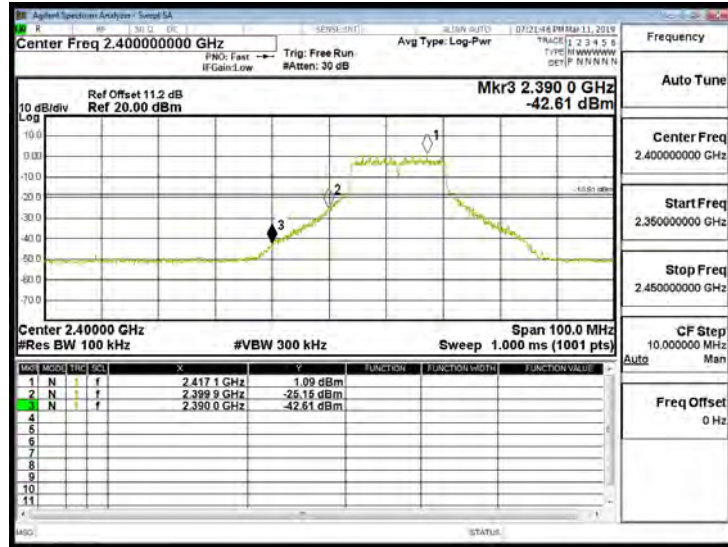
802.11b

Band Edge Test Data CH-Low

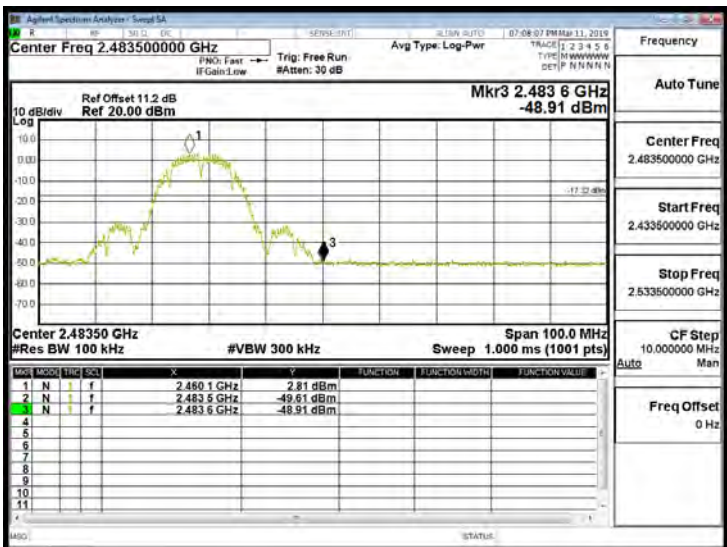


802.11g

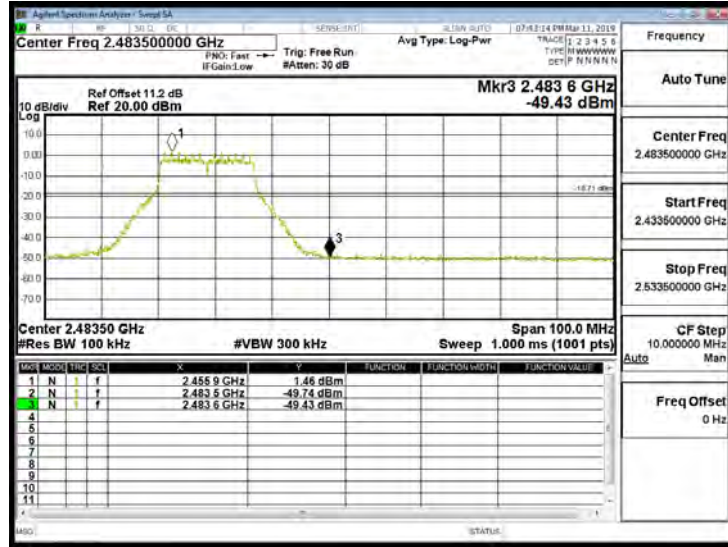
Band Edge Test Data CH-Low



Band Edge Test Data CH-High



Band Edge Test Data CH-High



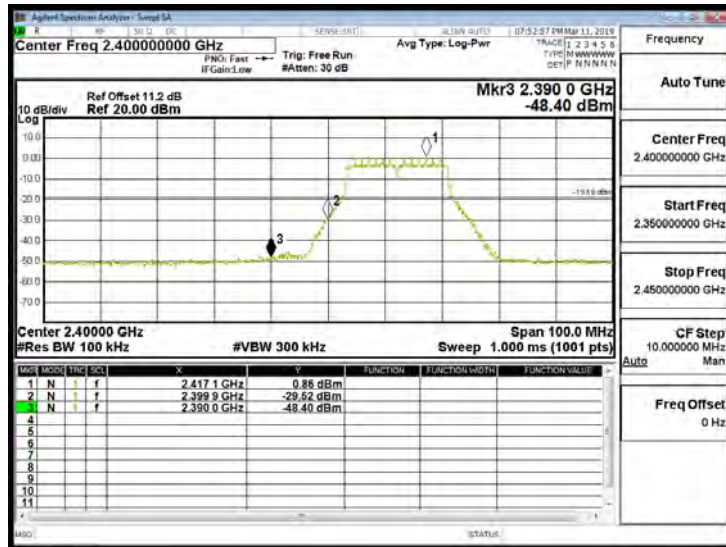
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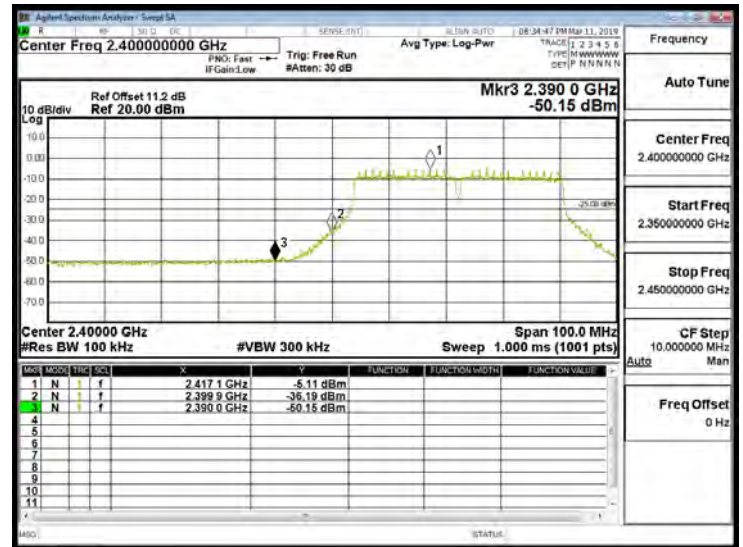
802.11n_HT20

Band Edge Test Data CH-Low

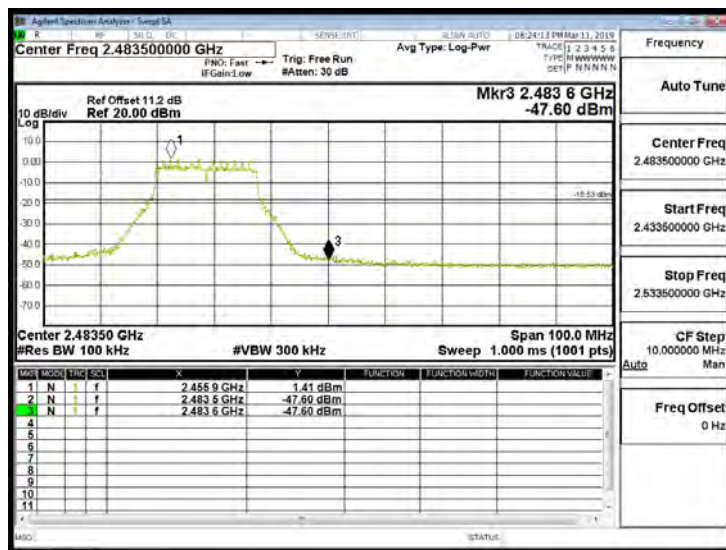


802.11n_HT40

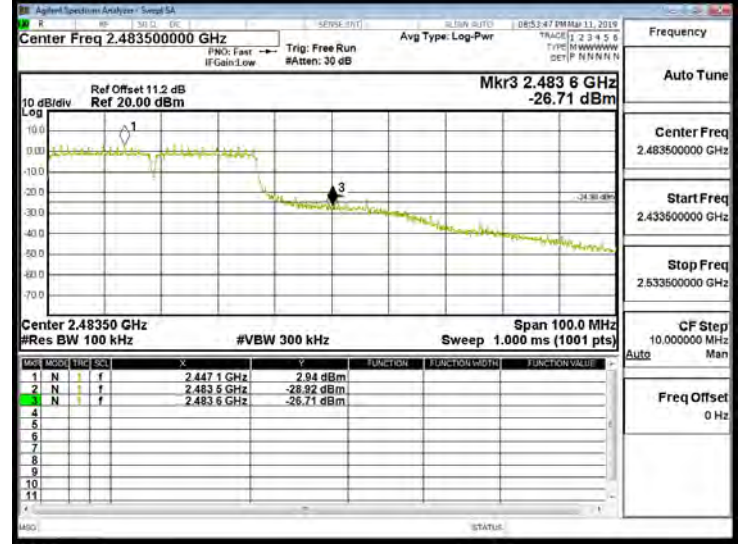
Band Edge Test Data CH-Low



Band Edge Test Data CH-High



Band Edge Test Data CH-High

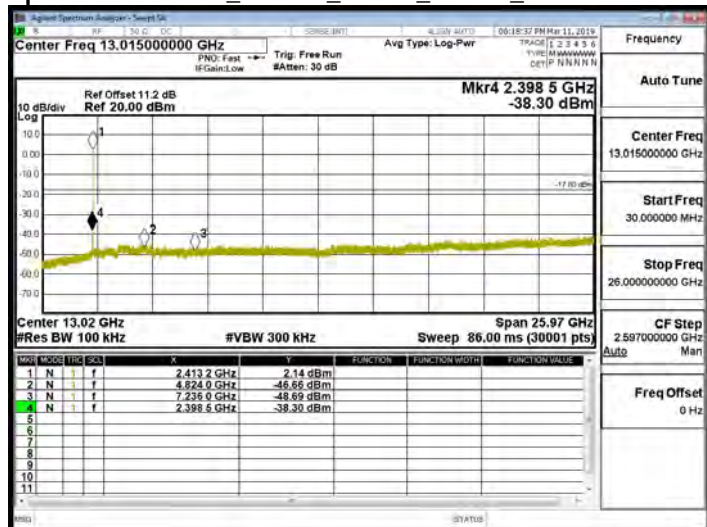


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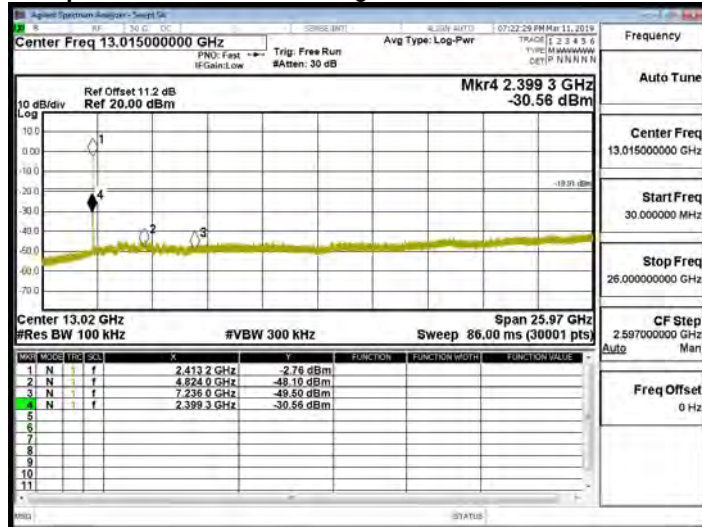
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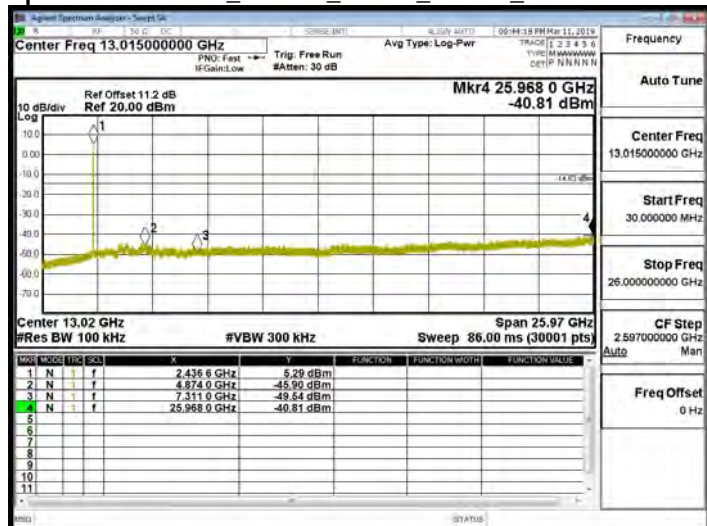
Spurious Emission_802.11b_20MHz_Chain0_2412MHz



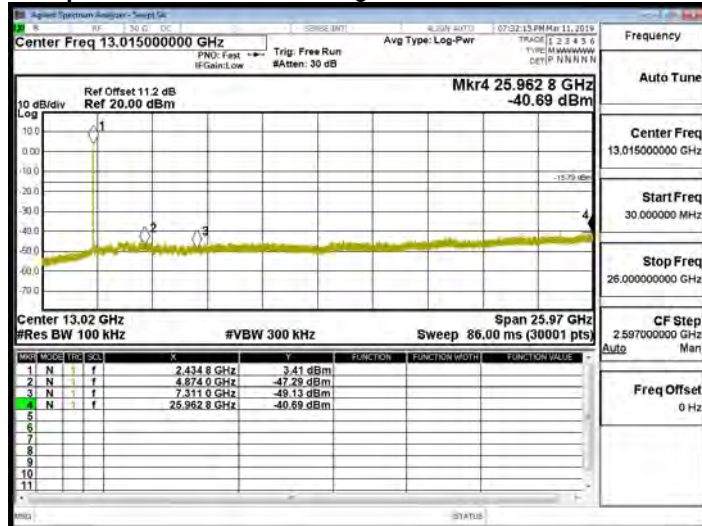
Spurious Emission_802.11g_20MHz_Chain0_2412MHz



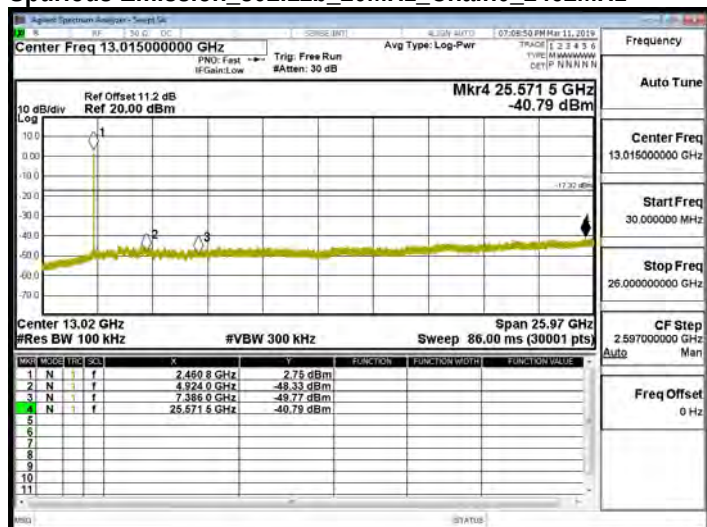
Spurious Emission_802.11b_20MHz_Chain0_2437MHz



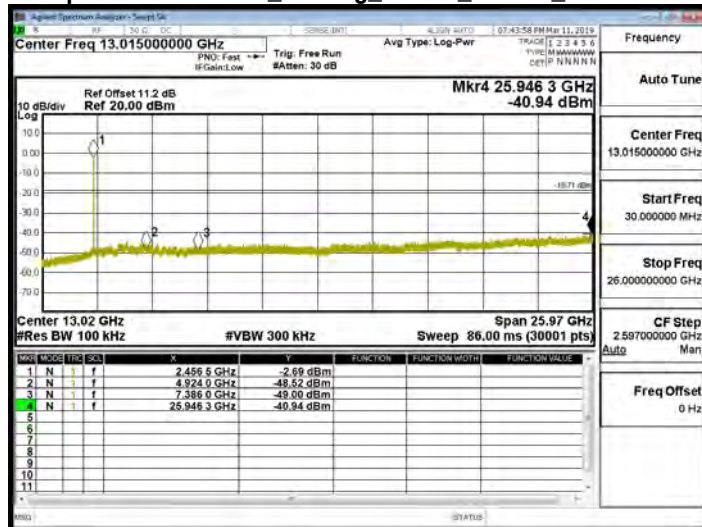
Spurious Emission_802.11g_20MHz_Chain0_2437MHz



Spurious Emission_802.11b_20MHz_Chain0_2462MHz



Spurious Emission_802.11g_20MHz_Chain0_2462MHz

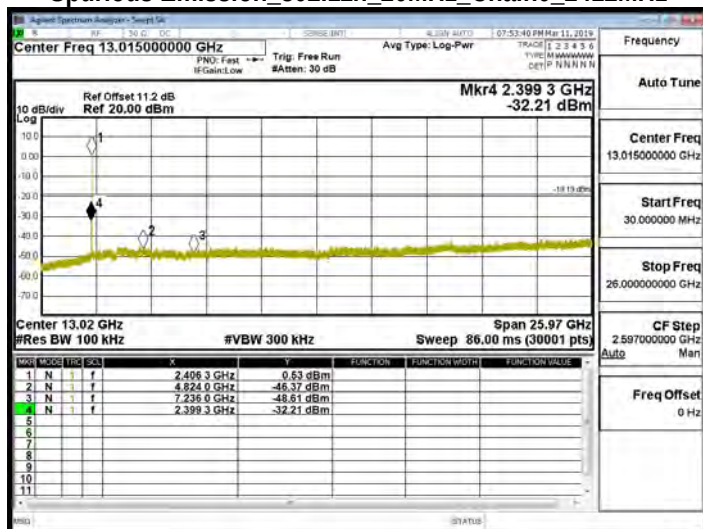


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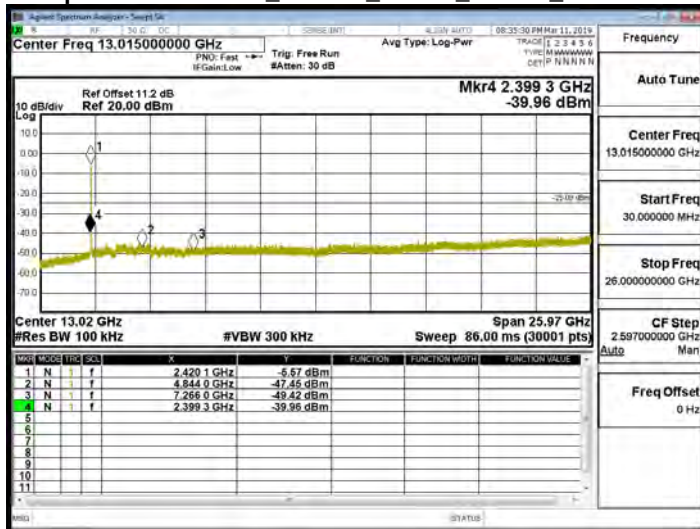
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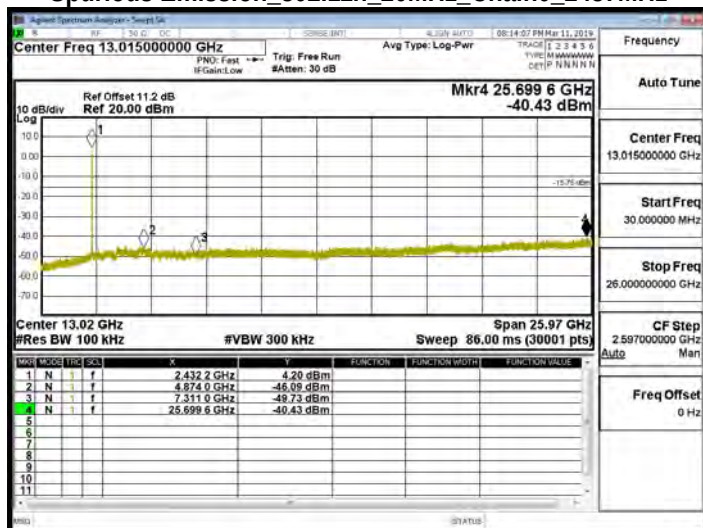
Spurious Emission_802.11n_20MHz_Chain0_2412MHz



Spurious Emission_802.11n_40MHz_Chain0_2422MHz



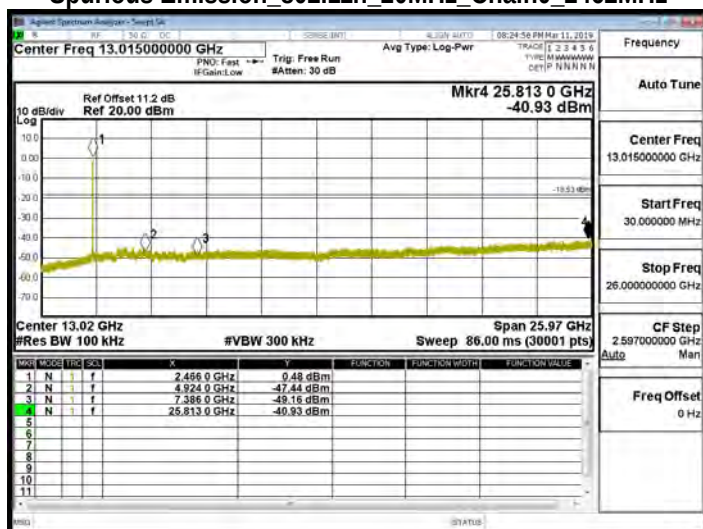
Spurious Emission_802.11n_20MHz_Chain0_2437MHz



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 RSS-Gen §8.10 Table 7.

And according to 15.33(a)(1) & RSS-Gen §6.13(a) for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

According to RSS-Gen §8.9 Table 5 & 6 Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission

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

Note:

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

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11.2 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Band Reject Filters	MICRO TRONICS	BRM 50702	120	2019/02/26	2020/02/25
Bilog Antenna	Sunol Sciences	JB3	A030105	2018/07/13	2019/07/12
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	2019/02/26	2020/02/25
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	2019/02/26	2020/02/25
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	2019/01/30	2020/01/29
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	2018/08/20	2019/08/19
Loop Antenna	ETS.LINDGREN	6502	148045	2018/10/08	2019/10/07
Pre-Amplifier	EMEC	EM330	060609	2019/02/26	2020/02/25
Pre-Amplifier	HP	8449B	3008A00965	2019/02/26	2020/02/25
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	2018/05/31	2019/05/30
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.

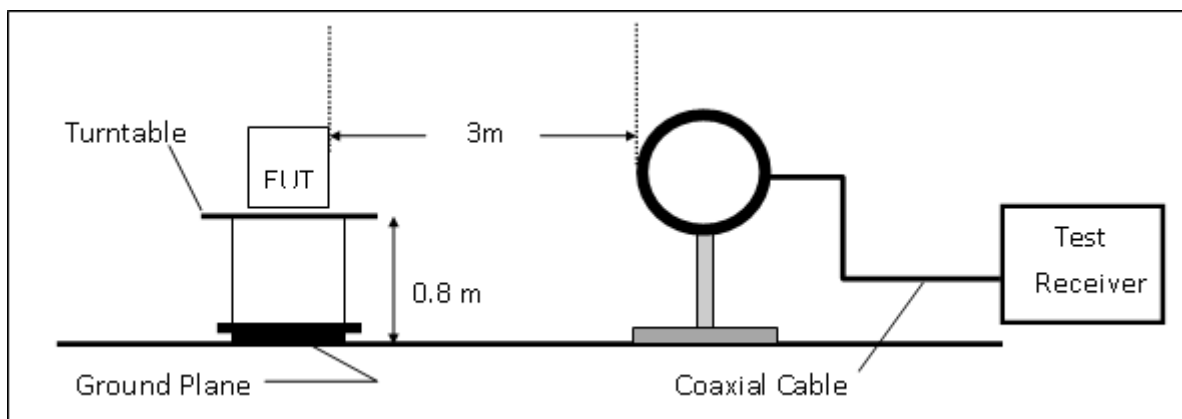
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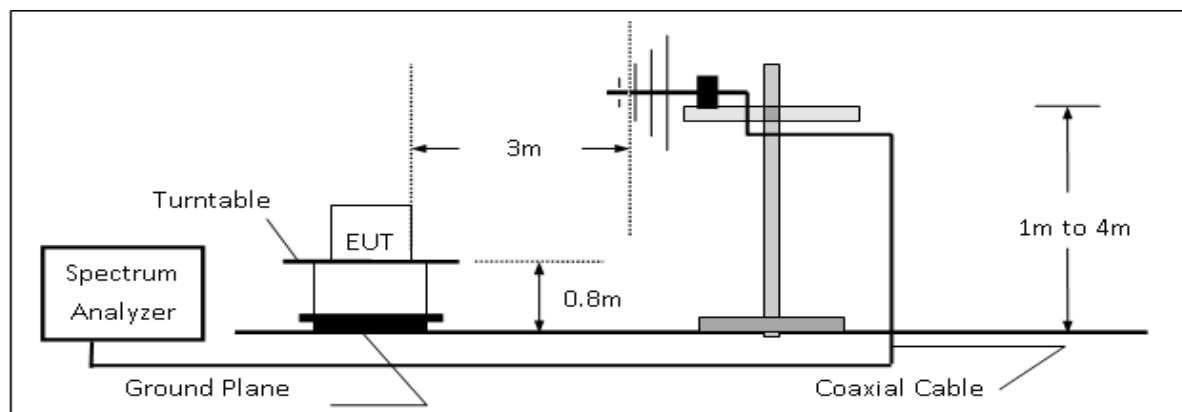
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11.3 Test SET-UP

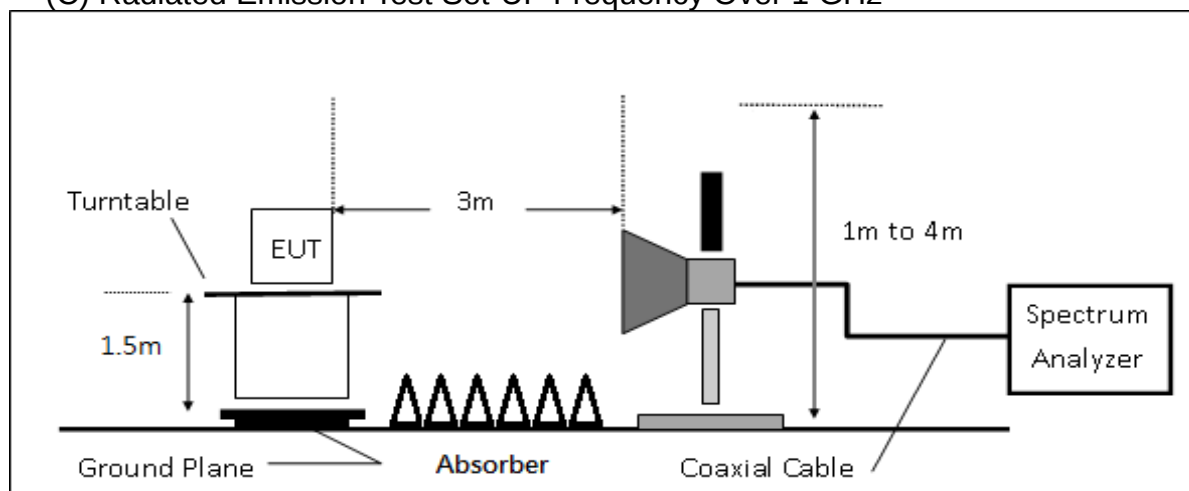
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 & ANSI C63.10.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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11.5 Field Strength Calculation

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

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

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

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

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

11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

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

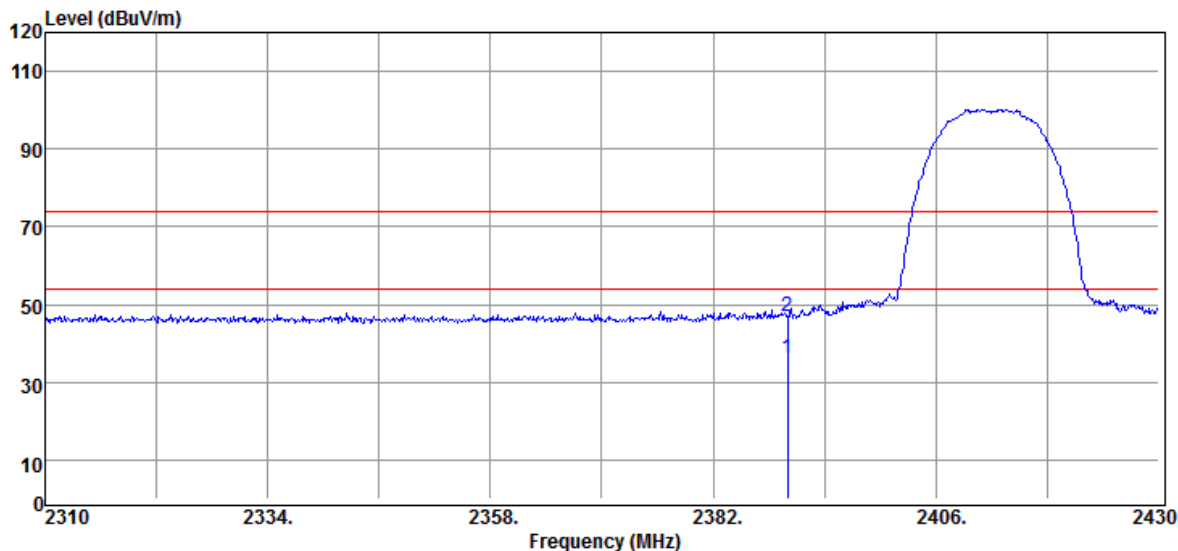
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Radiated Band Edge Measurement Result (802.11b)

Operation Mode	:802.11b	Test Date	:2019-03-11
Test Mode	:BE CH LOW	Temp./Humi.	:25/43
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Jerry



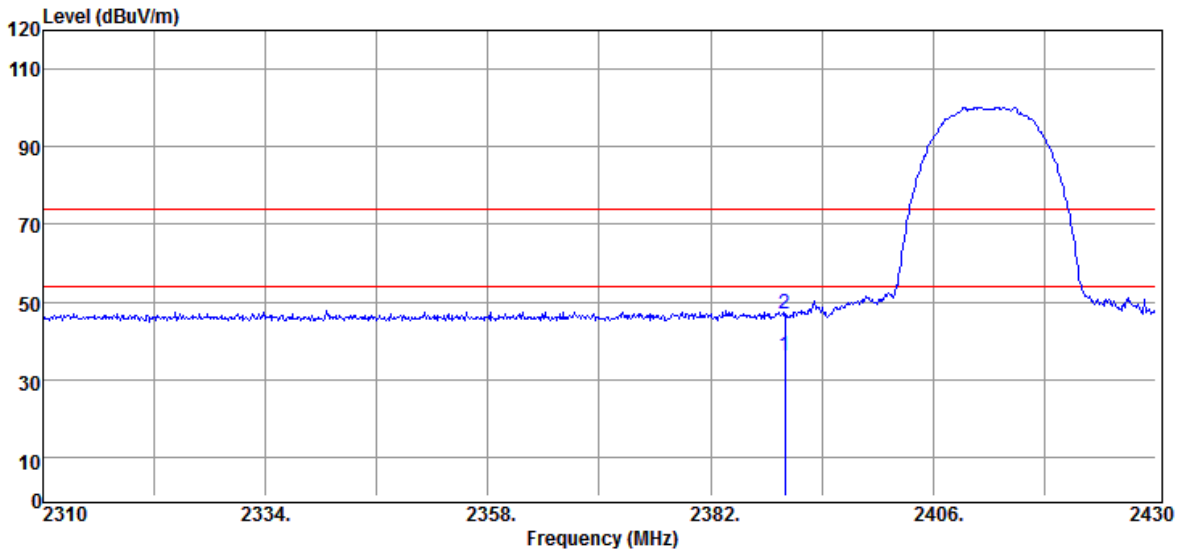
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	39.50	-3.33	36.17	54.00	-17.83
2390.00	Peak	50.11	-3.33	46.78	74.00	-27.22

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Operation Mode	:802.11b	Test Date	:2019-03-11
Test Mode	:BE CH LOW	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Jerry



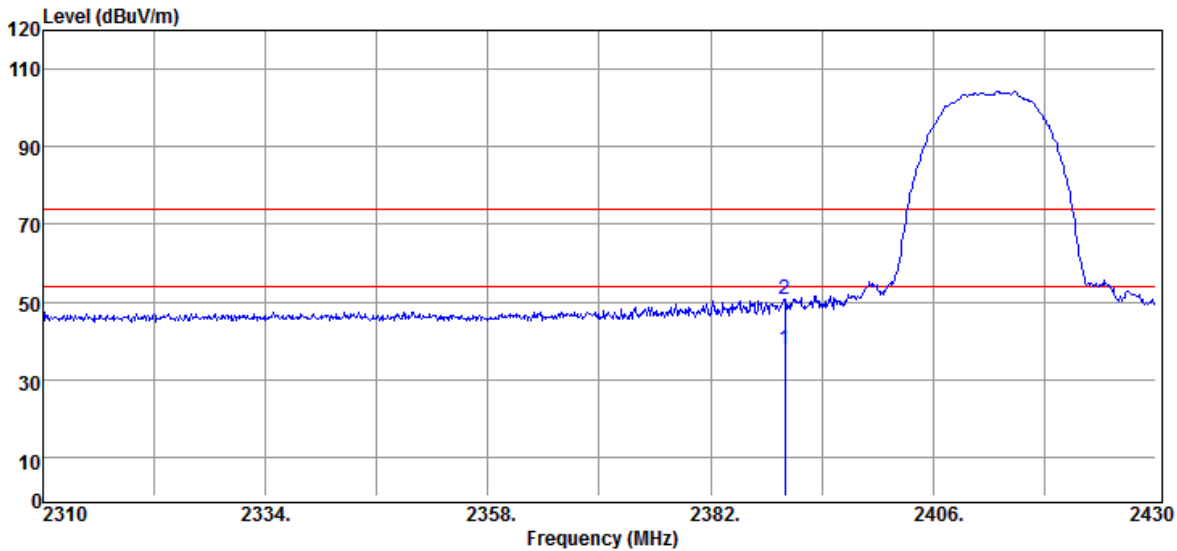
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	39.52	-3.33	36.19	54.00	-17.81
2390.00	Peak	50.11	-3.33	46.78	74.00	-27.22

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Operation Mode	:802.11b	Test Date	:2019-03-12
Test Mode	:BE CH 02	Temp./Humi.	:25/43
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2417 MHz	Engineer	:Jerry



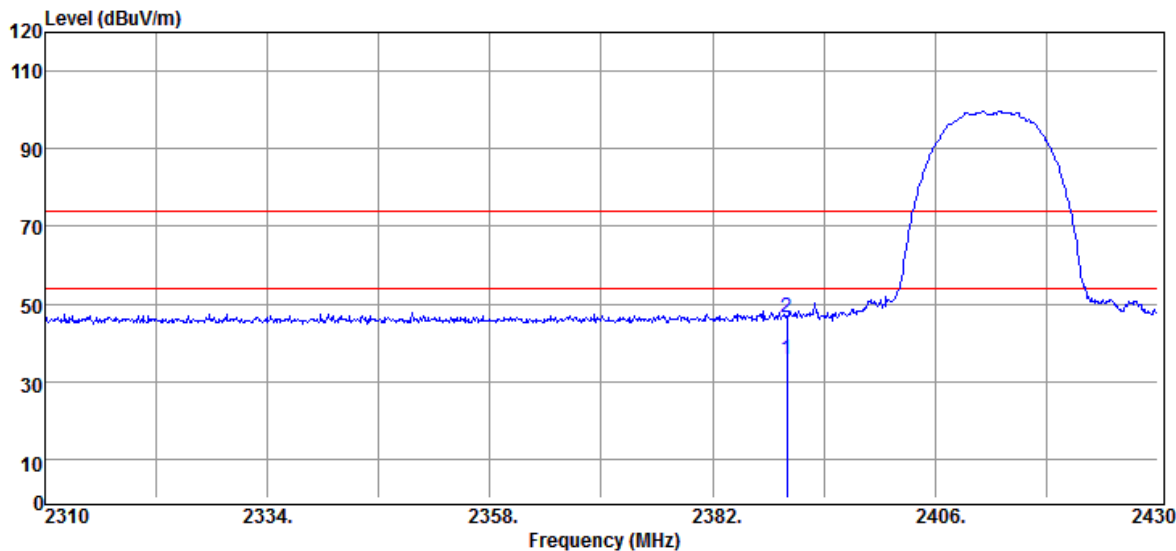
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	40.96	-3.33	37.63	54.00	-16.37
2390.00	Peak	54.09	-3.33	50.76	74.00	-23.24

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Operation Mode	:802.11b	Test Date	:2019-03-12
Test Mode	:BE CH 02	Temp./Humi.	:25/43
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2417 MHz	Engineer	:Jerry



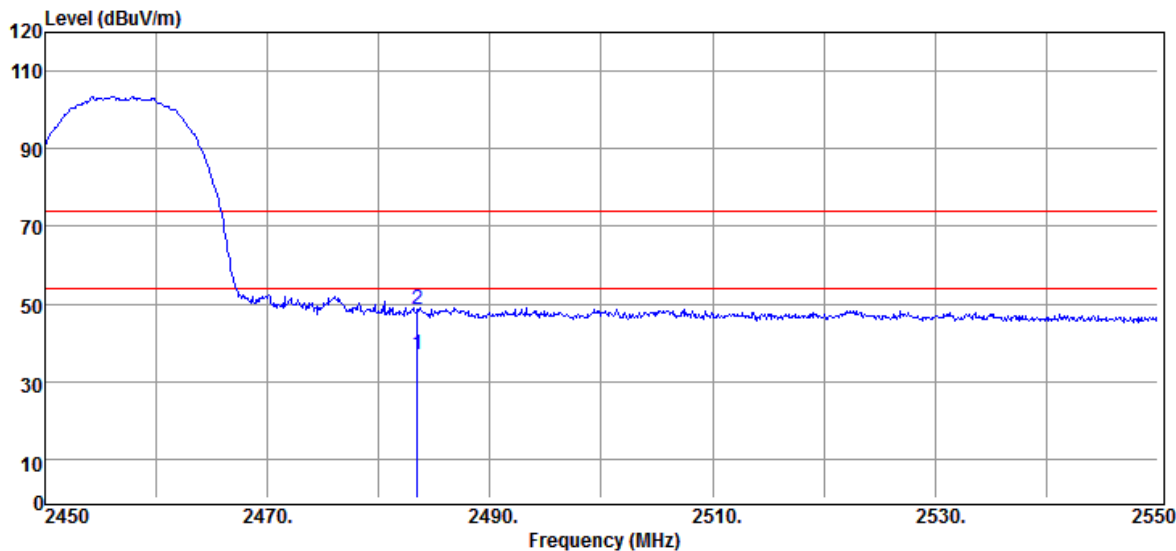
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.97	-3.33	35.64	54.00	-18.36
2390.00	Peak	50.04	-3.33	46.71	74.00	-27.29

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Operation Mode	:802.11b	Test Date	:2019-03-12
Test Mode	:BE CH 10	Temp./Humi.	:25/43
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2457 MHz	Engineer	:Jerry



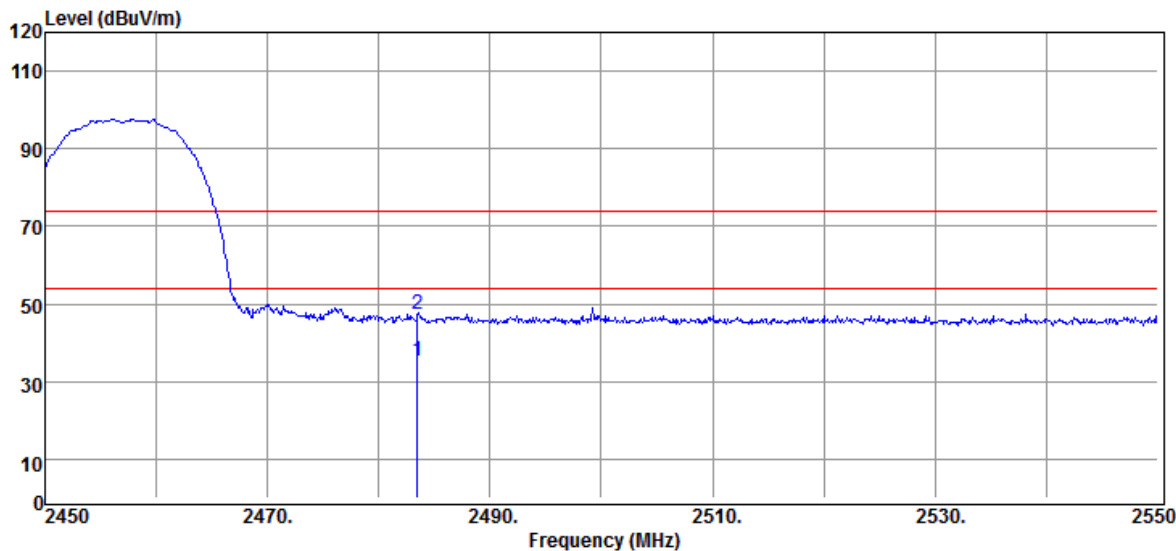
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	39.58	-2.72	36.86	54.00	-17.14
2483.50	Peak	51.23	-2.72	48.51	74.00	-25.49

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Operation Mode	:802.11b	Test Date	:2019-03-12
Test Mode	:BE CH 10	Temp./Humi.	:25/43
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2457 MHz	Engineer	:Jerry



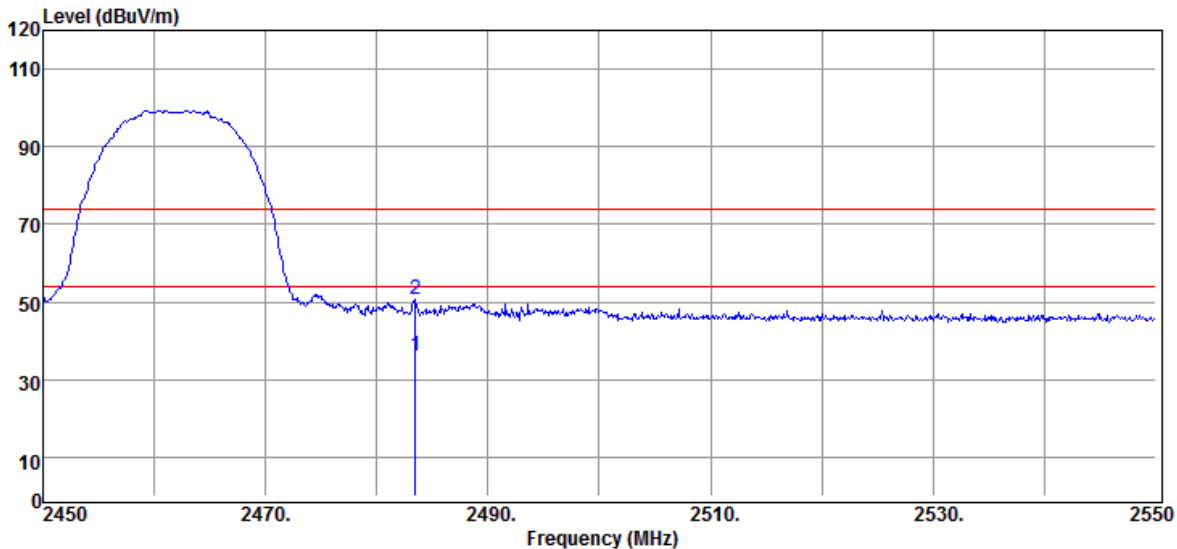
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	38.03	-2.72	35.31	54.00	-18.69
2483.50	Peak	50.12	-2.72	47.40	74.00	-26.60

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Operation Mode	:802.11b	Test Date	:2019-03-11
Test Mode	:BE CH HIGH	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Jerry



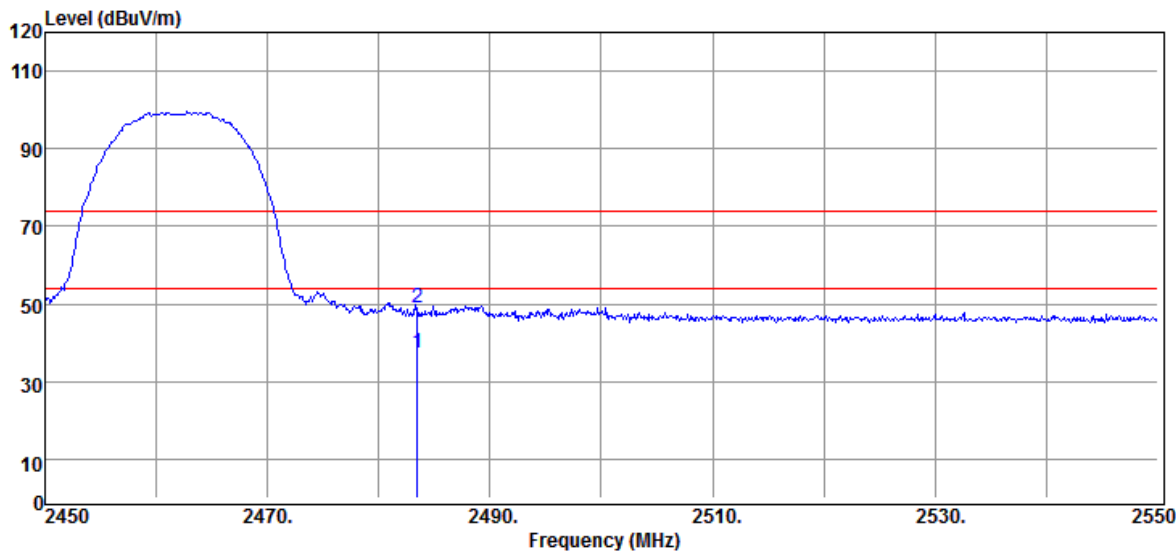
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	38.97	-2.72	36.25	54.00	-17.75
2483.50	Peak	53.34	-2.72	50.62	74.00	-23.38

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Operation Mode	:802.11b	Test Date	:2019-03-11
Test Mode	:BE CH HIGH	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Jerry



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	40.02	-2.72	37.30	54.00	-16.70
2483.50	Peak	51.89	-2.72	49.17	74.00	-24.83

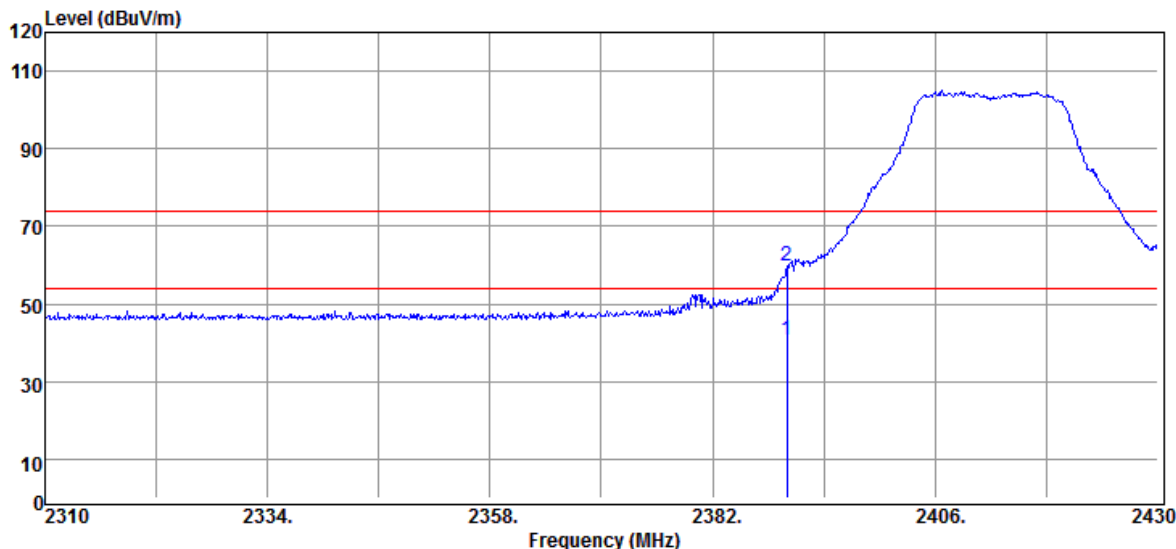
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Radiated Band Edge Measurement Result (802.11g)

Operation Mode	:802.11g	Test Date	:2019-03-11
Test Mode	:BE CH LOW	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Jerry



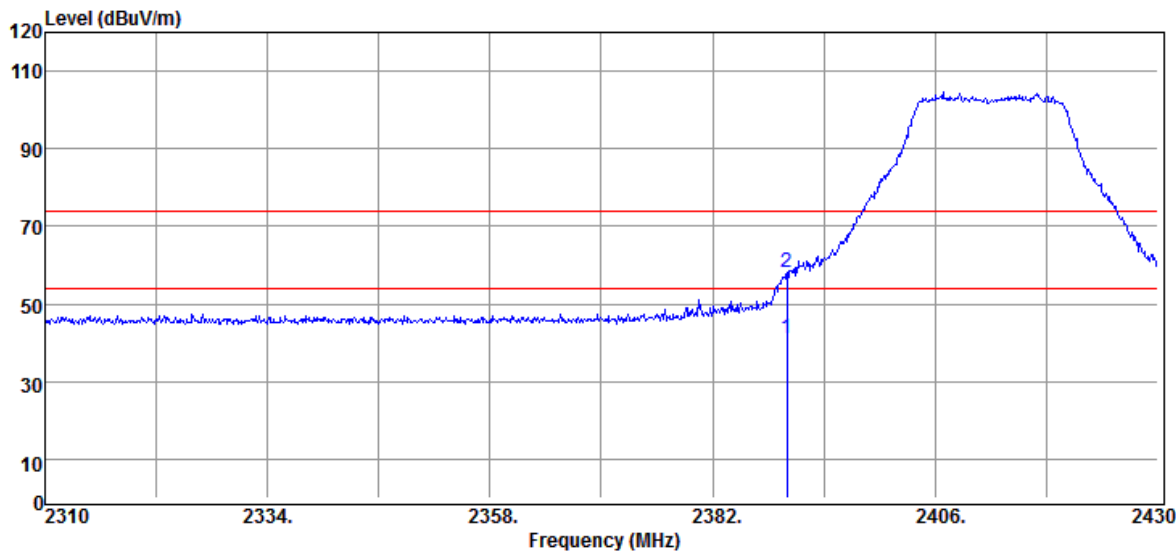
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2390.00	Average	43.92	-3.33	40.59	54.00	-13.41
2390.04	Peak	63.05	-3.32	59.73	74.00	-14.27

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Operation Mode	:802.11g	Test Date	:2019-03-11
Test Mode	:BE CH LOW	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Jerry



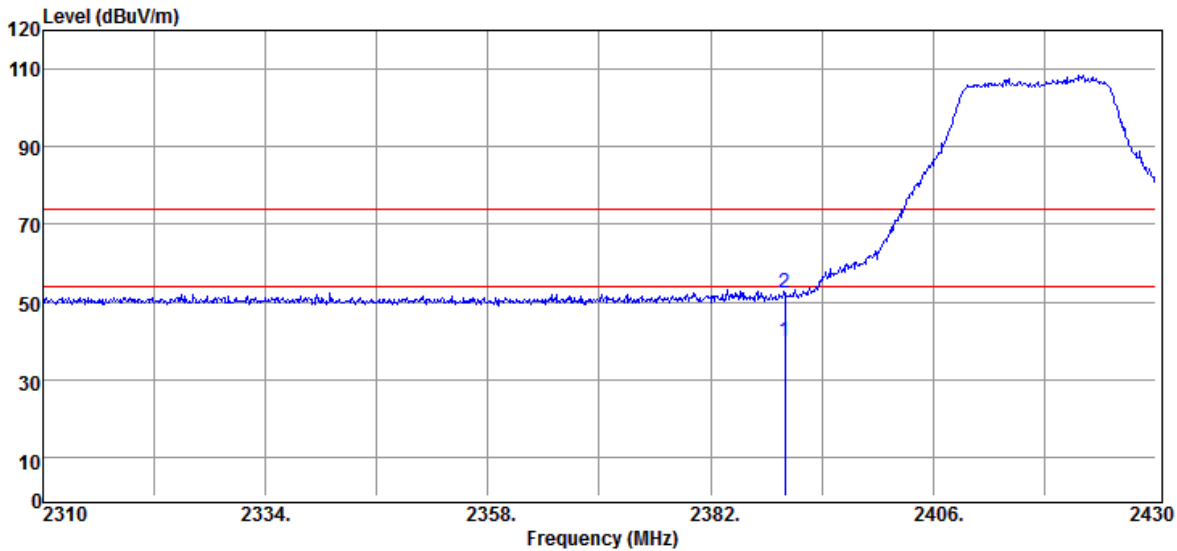
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	44.61	-3.33	41.28	54.00	-12.72
2390.00	Peak	61.53	-3.33	58.20	74.00	-15.80

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Operation Mode	:802.11g	Test Date	:2019-03-12
Test Mode	:BE CH 02	Temp./Humi.	:25/43
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2417 MHz	Engineer	:Jerry



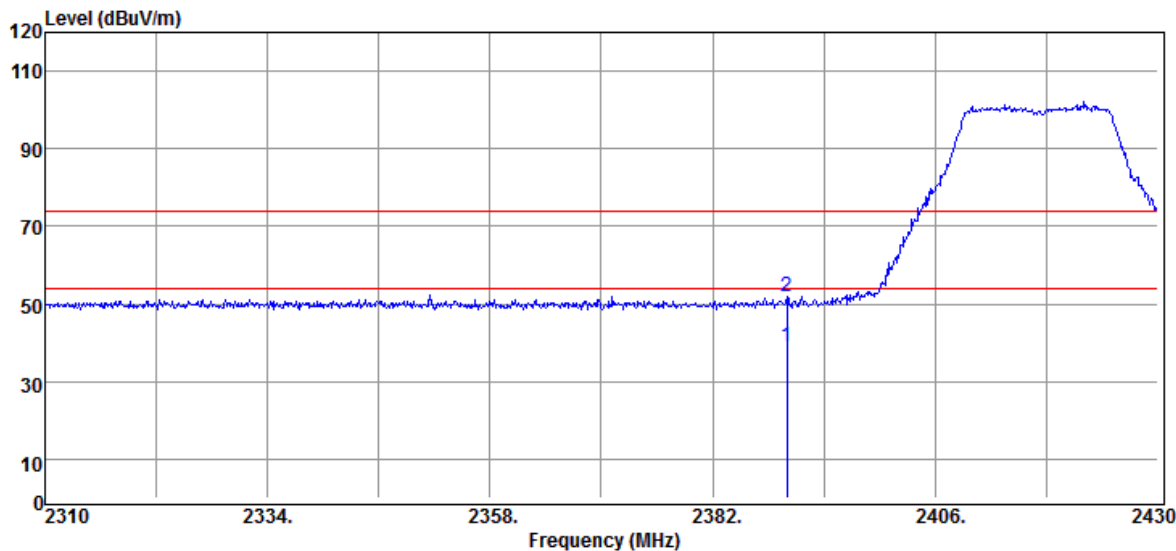
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	43.09	-3.33	39.76	54.00	-14.24
2390.00	Peak	55.75	-3.33	52.42	74.00	-21.58

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Operation Mode	:802.11g	Test Date	:2019-03-12
Test Mode	:BE CH 02	Temp./Humi.	:25/43
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2417 MHz	Engineer	:Jerry



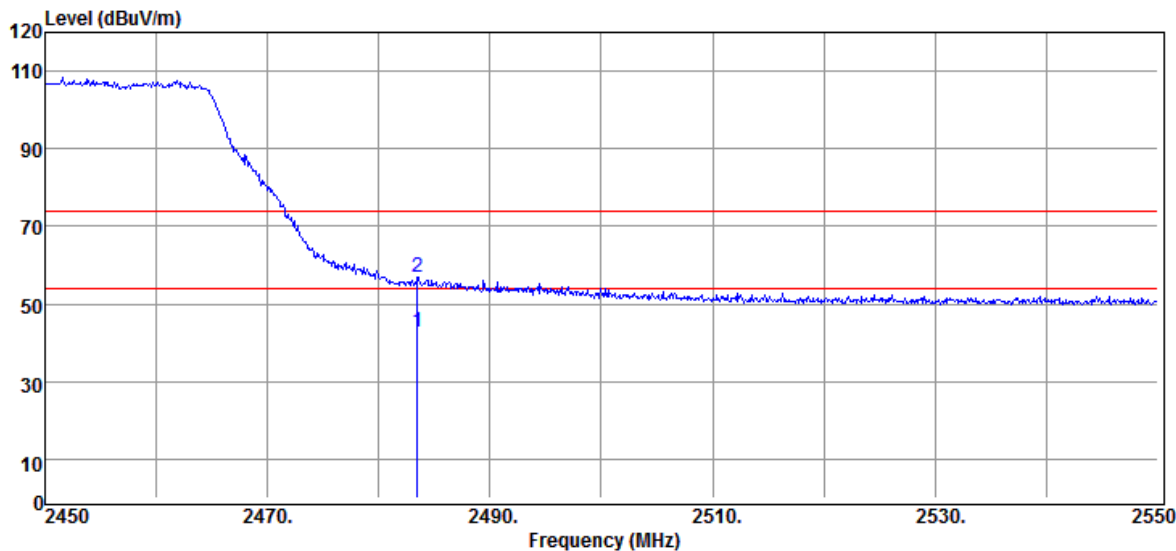
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	42.46	-3.33	39.13	54.00	-14.87
2390.00	Peak	55.22	-3.33	51.89	74.00	-22.11

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Operation Mode	:802.11g	Test Date	:2019-03-12
Test Mode	:BE CH 10	Temp./Humi.	:25/43
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2457 MHz	Engineer	:Jerry



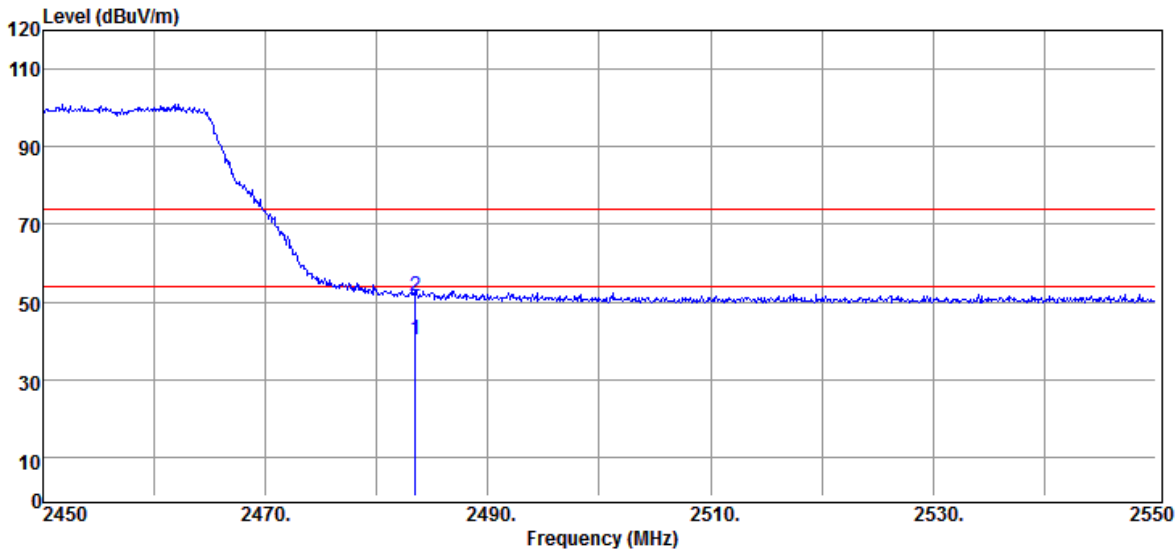
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	45.63	-2.72	42.91	54.00	-11.09
2483.50	Peak	59.70	-2.72	56.98	74.00	-17.02

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Operation Mode	:802.11g	Test Date	:2019-03-12
Test Mode	:BE CH 10	Temp./Humi.	:25/43
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2457 MHz	Engineer	:Jerry



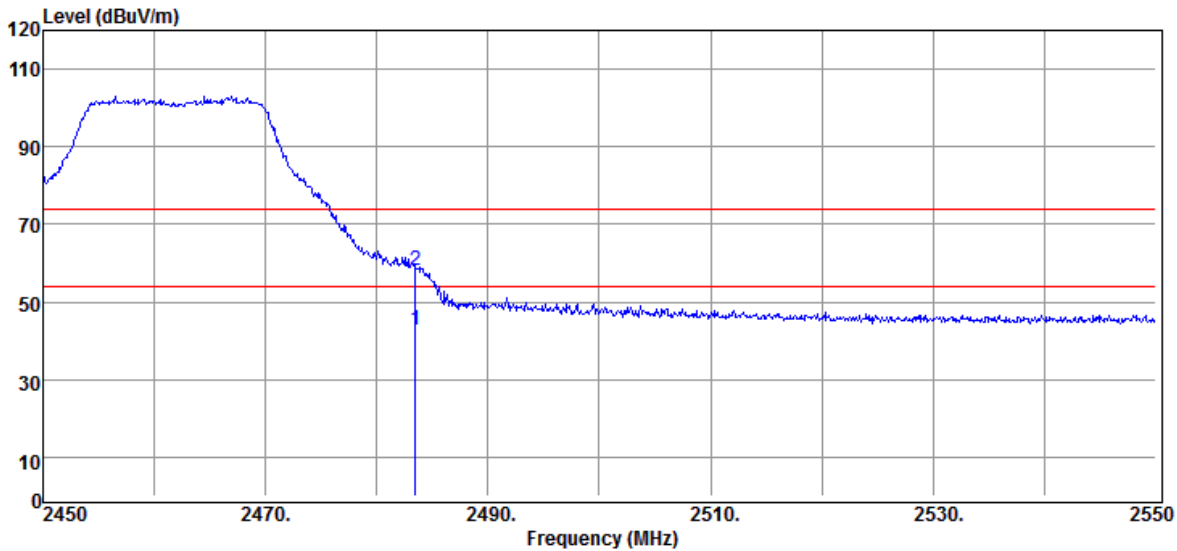
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	42.88	-2.72	40.16	54.00	-13.84
2483.50	Peak	54.26	-2.72	51.54	74.00	-22.46

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Operation Mode	:802.11g	Test Date	:2019-03-11
Test Mode	:BE CH HIGH	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Jerry



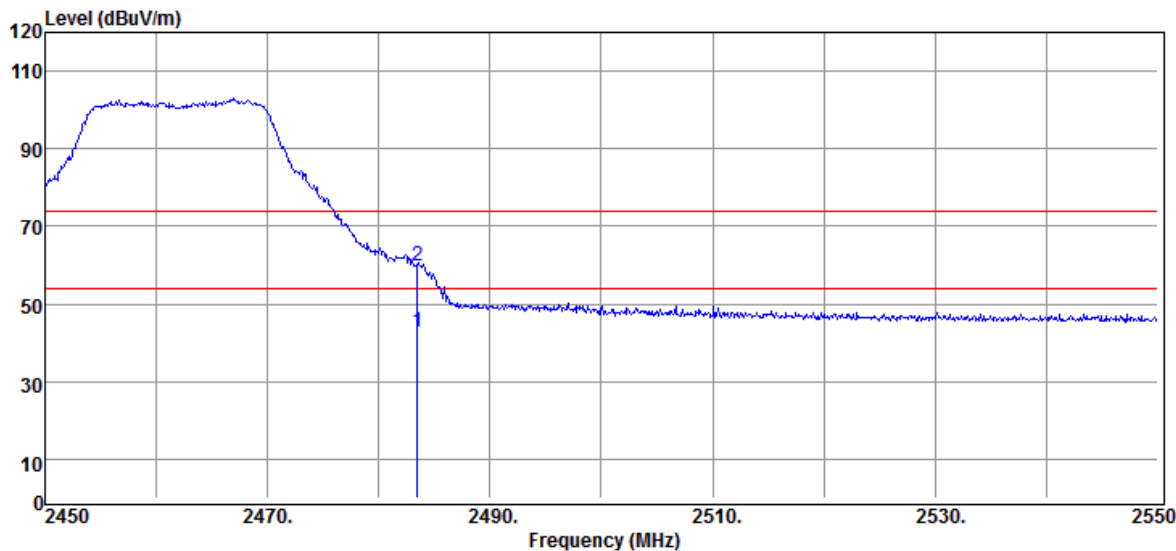
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	45.61	-2.72	42.89	54.00	-11.11
2483.50	Peak	61.02	-2.72	58.30	74.00	-15.70

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Operation Mode	:802.11g	Test Date	:2019-03-11
Test Mode	:BE CH HIGH	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Jerry



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	45.59	-2.72	42.87	54.00	-11.13
2483.50	Peak	62.58	-2.72	59.86	74.00	-14.14

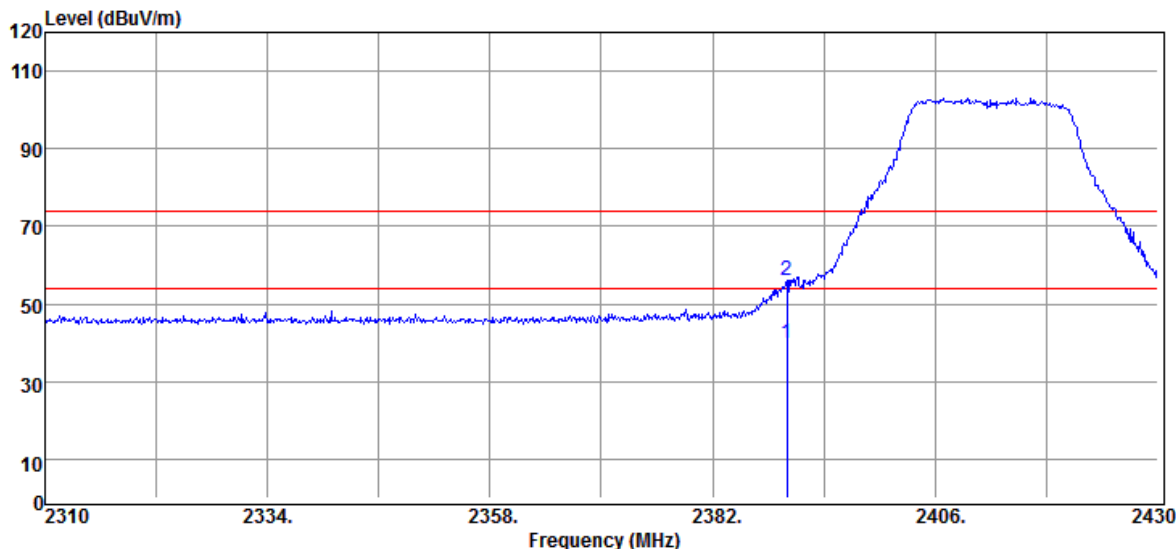
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Radiated Band Edge Measurement Result (802.11n20)

Operation Mode	:802.11n20	Test Date	:2019-03-11
Test Mode	:BE CH LOW	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Jerry



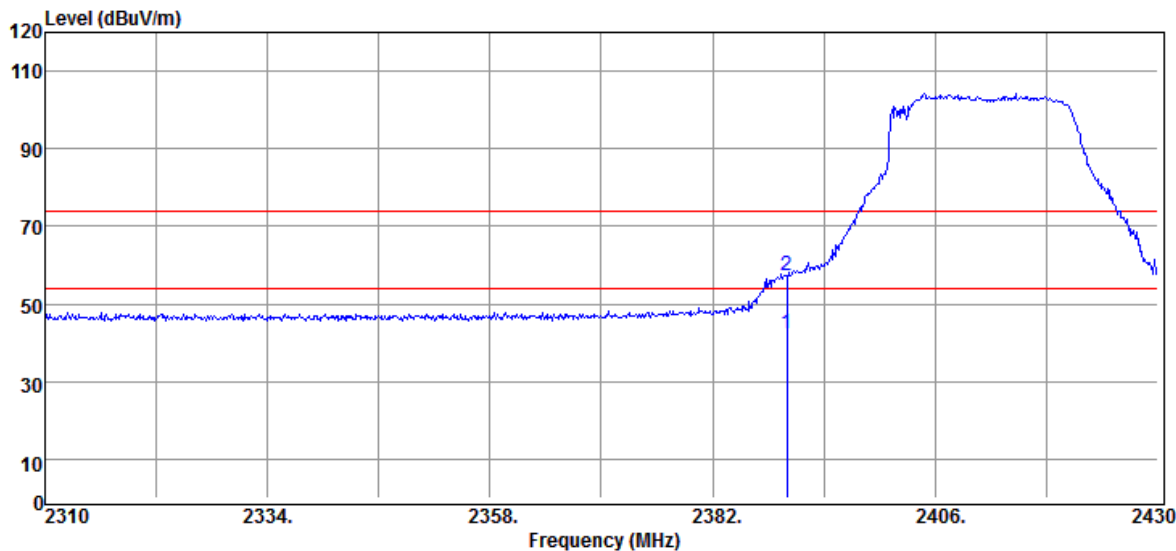
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2390.00	Average	43.34	-3.33	40.01	54.00	-13.99
2390.00	Peak	59.58	-3.33	56.25	74.00	-17.75

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Operation Mode	:802.11n20	Test Date	:2019-03-11
Test Mode	:BE CH LOW	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Jerry



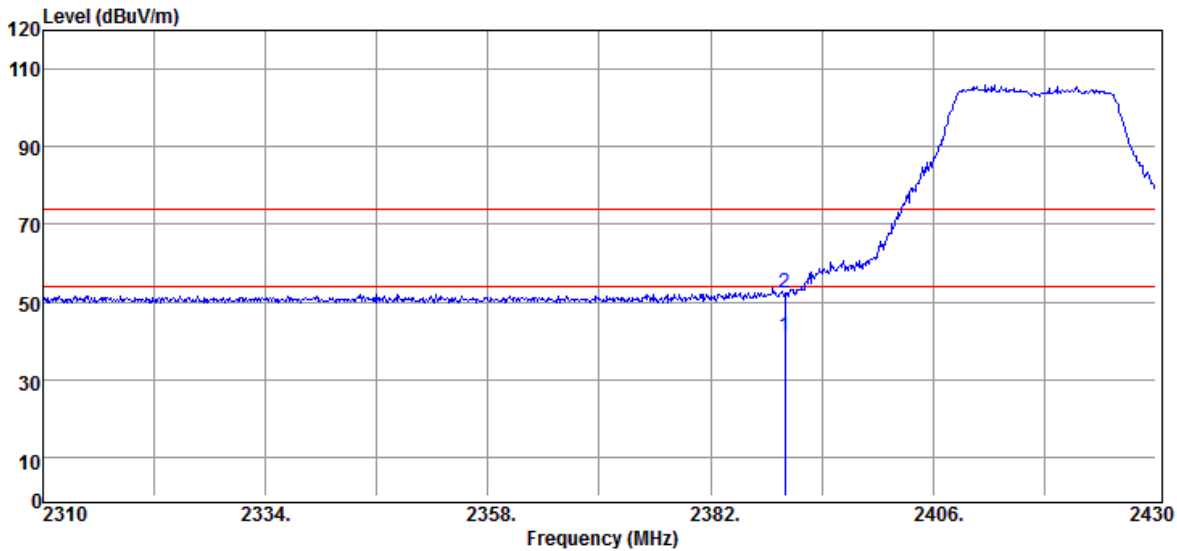
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	45.65	-3.33	42.32	54.00	-11.68
2390.00	Peak	60.56	-3.33	57.23	74.00	-16.77

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Operation Mode	:802.11n20	Test Date	:2019-03-12
Test Mode	:BE CH 02	Temp./Humi.	:25/43
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2417 MHz	Engineer	:Jerry



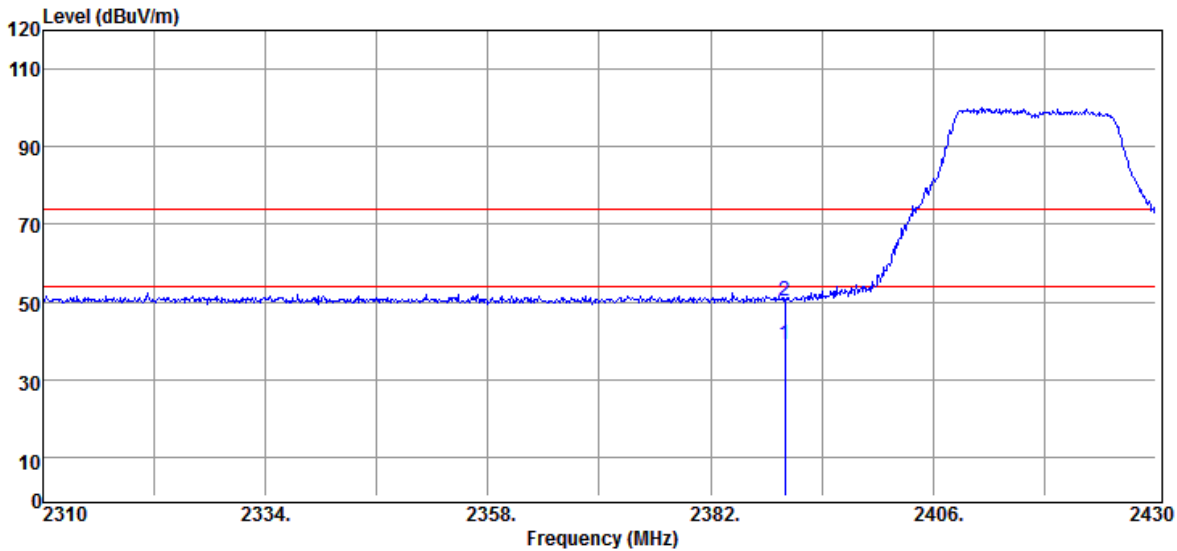
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	44.49	-3.33	41.16	54.00	-12.84
2390.00	Peak	55.83	-3.33	52.50	74.00	-21.50

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Operation Mode	:802.11n20	Test Date	:2019-03-12
Test Mode	:BE CH 02	Temp./Humi.	:25/43
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2417 MHz	Engineer	:Jerry



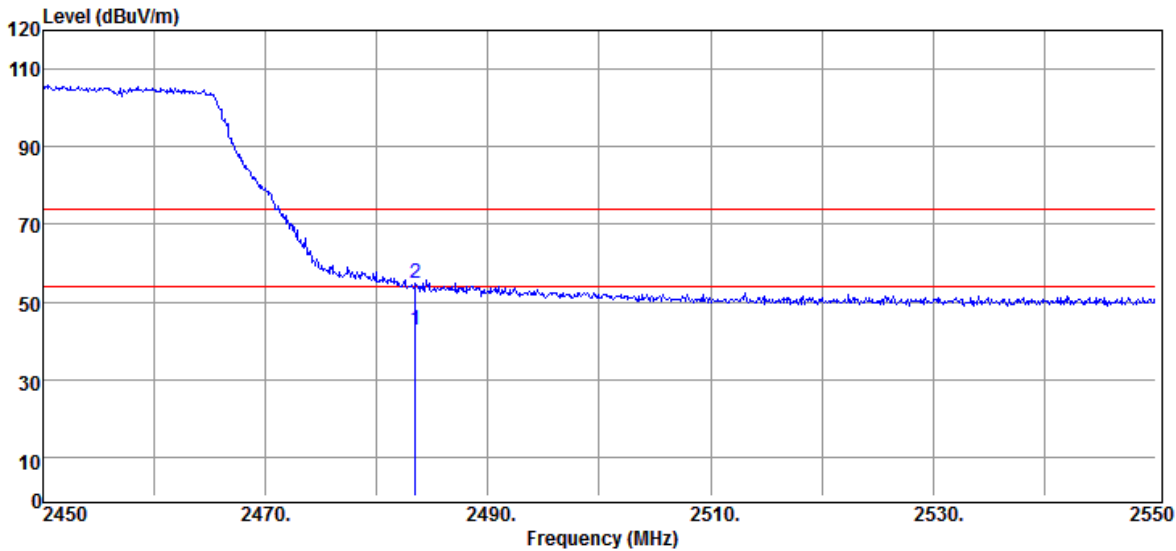
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	42.40	-3.33	39.07	54.00	-14.93
2390.00	Peak	53.64	-3.33	50.31	74.00	-23.69

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Operation Mode	:802.11n20	Test Date	:2019-03-12
Test Mode	:BE CH 10	Temp./Humi.	:25/43
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2457 MHz	Engineer	:Jerry



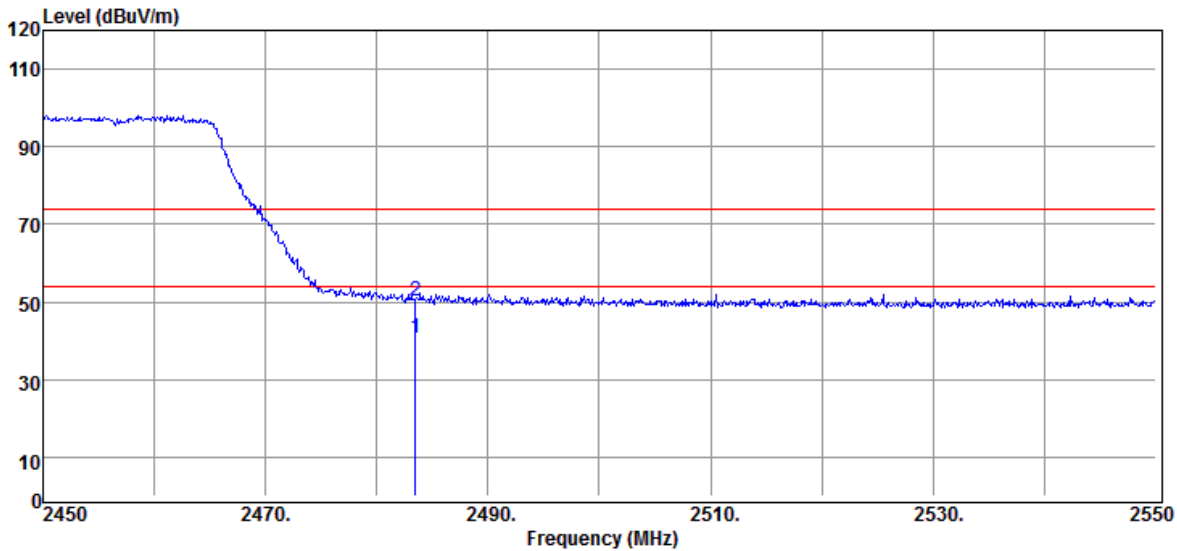
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	45.68	-2.72	42.96	54.00	-11.04
2483.50	Peak	57.57	-2.72	54.85	74.00	-19.15

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Operation Mode	:802.11n20	Test Date	:2019-03-12
Test Mode	:BE CH 10	Temp./Humi.	:25/43
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2457 MHz	Engineer	:Jerry



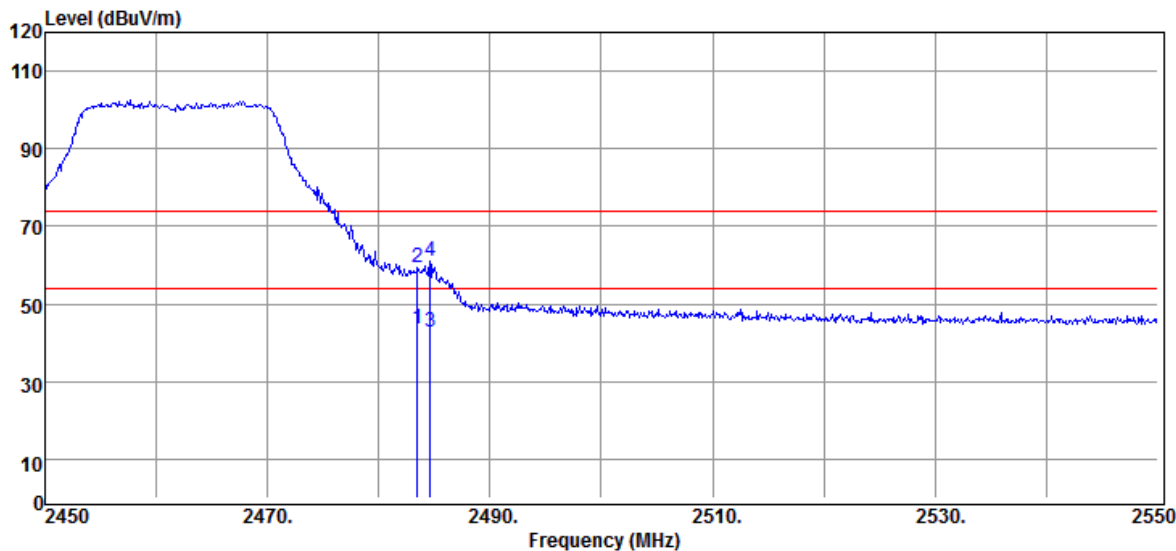
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	43.35	-2.72	40.63	54.00	-13.37
2483.50	Peak	53.08	-2.72	50.36	74.00	-23.64

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Operation Mode	:802.11n20	Test Date	:2019-03-11
Test Mode	:BE CH HIGH	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Jerry



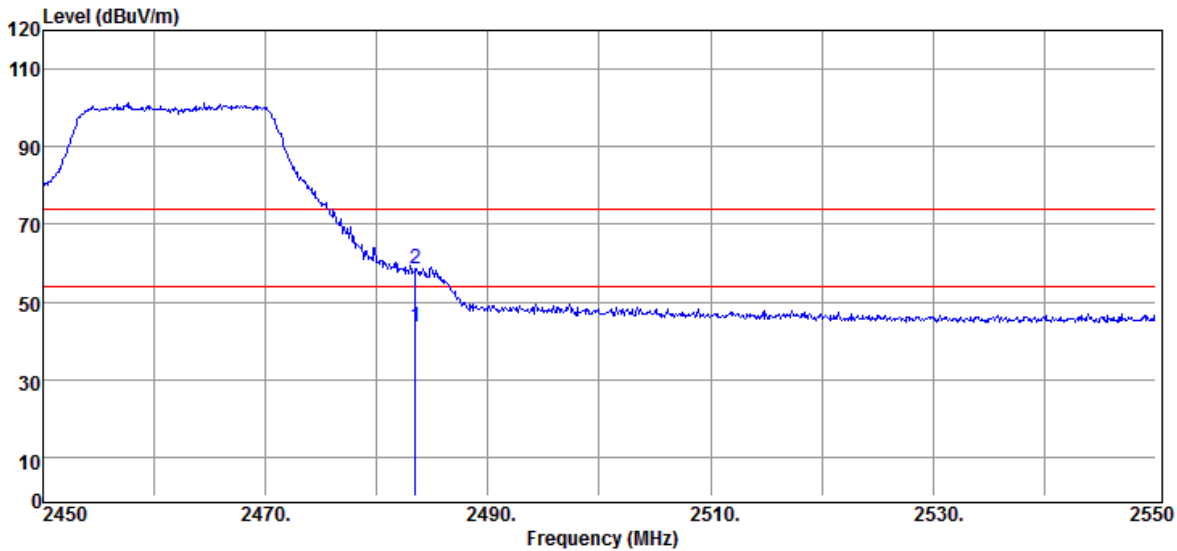
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	46.46	-2.72	43.74	54.00	-10.26
2483.50	Peak	61.89	-2.72	59.17	74.00	-14.83
2484.60	Average	45.55	-2.70	42.85	54.00	-11.15
2484.60	Peak	63.67	-2.70	60.97	74.00	-13.03

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Operation Mode	:802.11n20	Test Date	:2019-03-11
Test Mode	:BE CH HIGH	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Jerry



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	46.12	-2.72	43.40	54.00	-10.60
2483.50	Peak	61.31	-2.72	58.59	74.00	-15.41

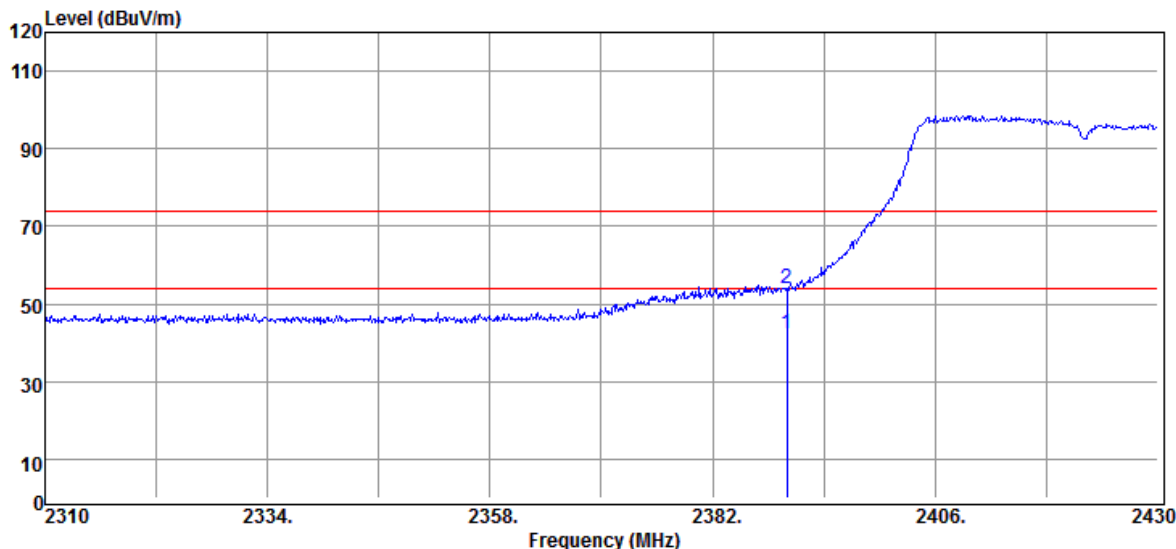
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Radiated Band Edge Measurement Result (802.11n40)

Operation Mode	:802.11n40	Test Date	:2019-03-11
Test Mode	:BE CH LOW	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2422 MHz	Engineer	:Jerry



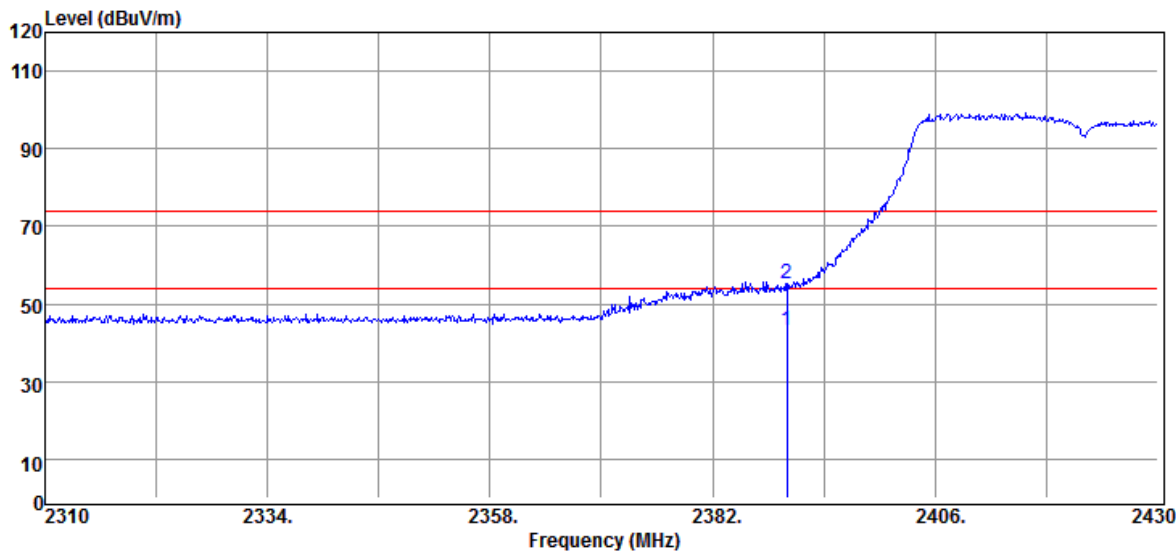
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2390.00	Average	45.85	-3.33	42.52	54.00	-11.48
2390.00	Peak	57.14	-3.33	53.81	74.00	-20.19

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Operation Mode	:802.11n40	Test Date	:2019-03-11
Test Mode	:BE CH LOW	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2422 MHz	Engineer	:Jerry



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	46.39	-3.33	43.06	54.00	-10.94
2390.00	Peak	58.62	-3.33	55.29	74.00	-18.71

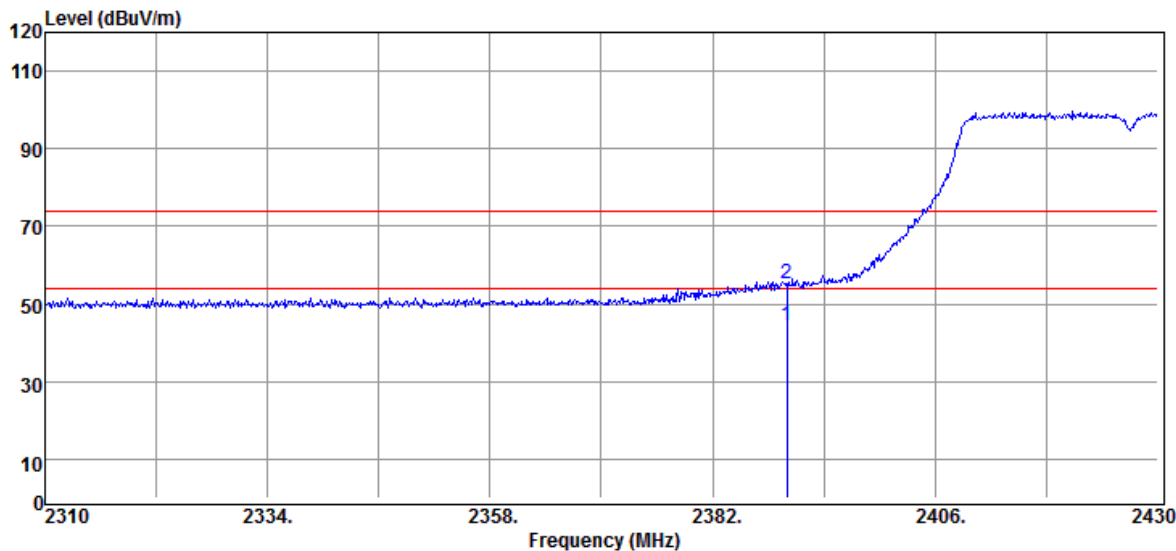
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Operation Mode :802.11n40
Test Mode :BE CH 04
EUT Pol :H Plan
Test Channel :2427 MHz

Test Date :2019-03-12
Temp./Humi. :25/43
Antenna Pol. :VERTICAL
Engineer :Jerry



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	47.83	-3.33	44.50	54.00	-9.50
2390.00	Peak	58.71	-3.33	55.38	74.00	-18.62

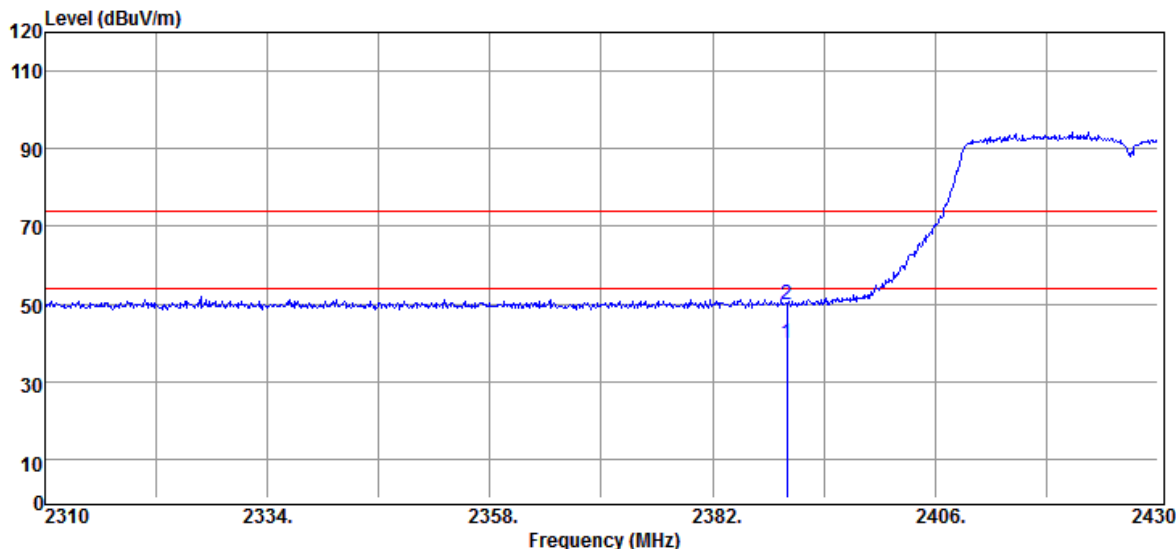
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Operation Mode :802.11n40
Test Mode :BE CH 04
EUT Pol :H Plan
Test Channel :2427 MHz

Test Date :2019-03-12
Temp./Humi. :25/43
Antenna Pol. :HORIZONTAL
Engineer :Jerry



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	43.17	-3.33	39.84	54.00	-14.16
2390.00	Peak	53.29	-3.33	49.96	74.00	-24.04

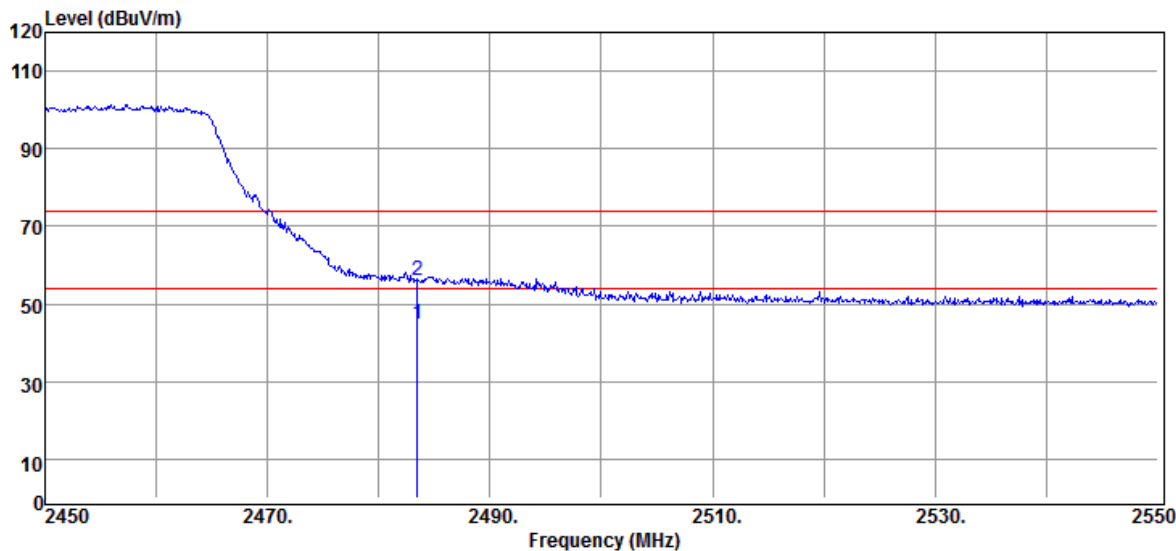
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Operation Mode :802.11n40
Test Mode :BE CH 08
EUT Pol :H Plan
Test Channel :2452 MHz

Test Date :2019-03-12
Temp./Humi. :25/43
Antenna Pol. :VERTICAL
Engineer :Jerry



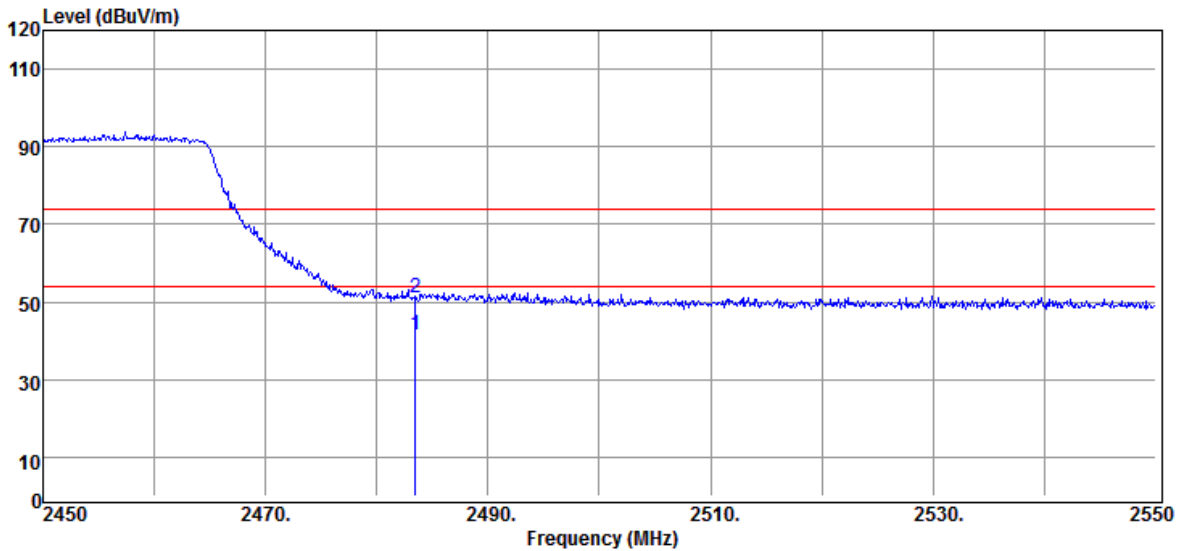
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	47.51	-2.72	44.79	54.00	-9.21
2483.50	Peak	58.76	-2.72	56.04	74.00	-17.96

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Operation Mode	:802.11n40	Test Date	:2019-03-12
Test Mode	:BE CH 08	Temp./Humi.	:25/43
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2452 MHz	Engineer	:Jerry



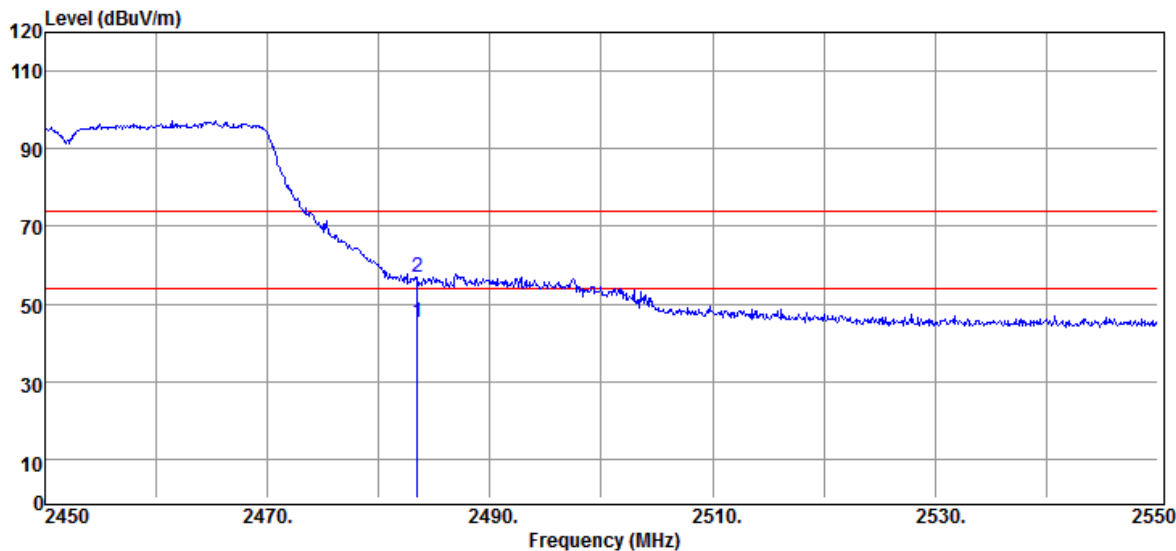
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	44.29	-2.72	41.57	54.00	-12.43
2483.50	Peak	53.85	-2.72	51.13	74.00	-22.87

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Operation Mode	:802.11n40	Test Date	:2019-03-11
Test Mode	:BE CH HIGH	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2452 MHz	Engineer	:Jerry



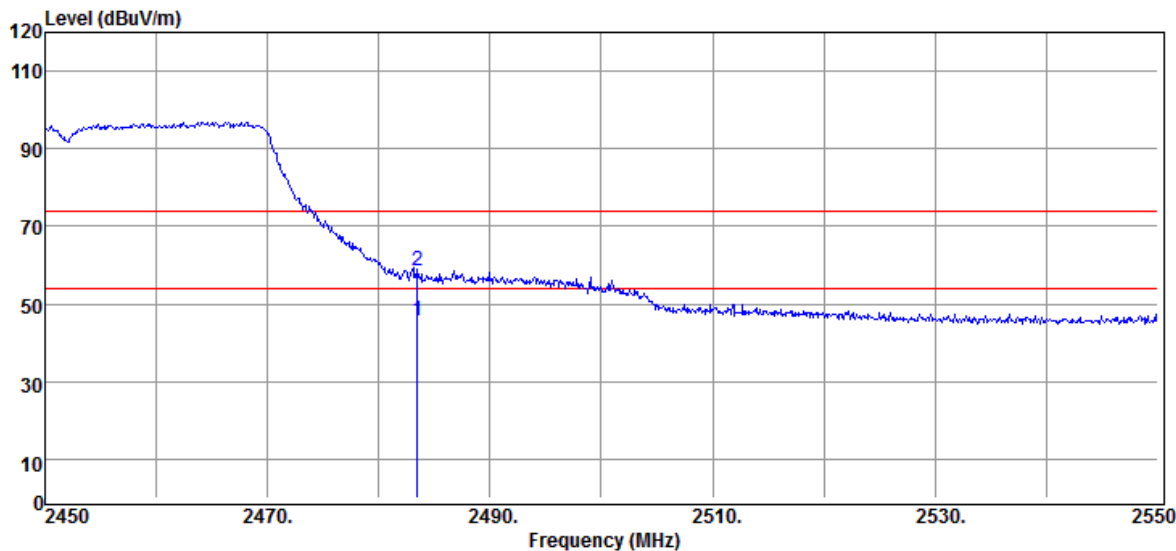
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	47.82	-2.72	45.10	54.00	-8.90
2483.50	Peak	59.46	-2.72	56.74	74.00	-17.26

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Operation Mode	:802.11n40	Test Date	:2019-03-11
Test Mode	:BE CH HIGH	Temp./Humi.	:20/59
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2452 MHz	Engineer	:Jerry



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	48.25	-2.72	45.53	54.00	-8.47
2483.50	Peak	61.24	-2.72	58.52	74.00	-15.48

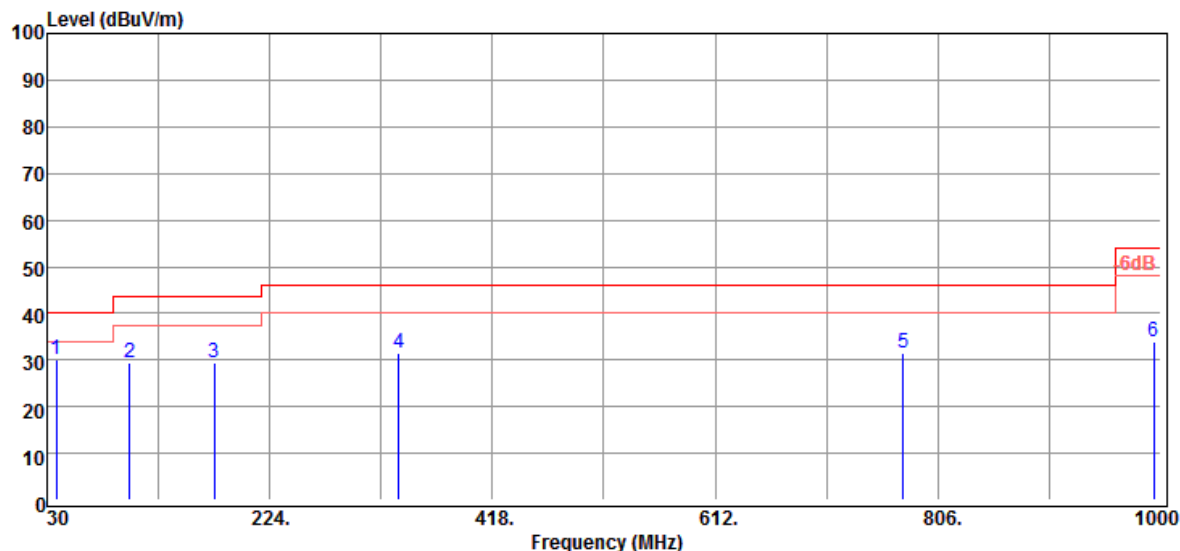
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Below 1GHz Worst-Case Data:**Radiated Spurious Emission Measurement Result (802.11g)**

Operation Mode	:802.11g	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Jerry



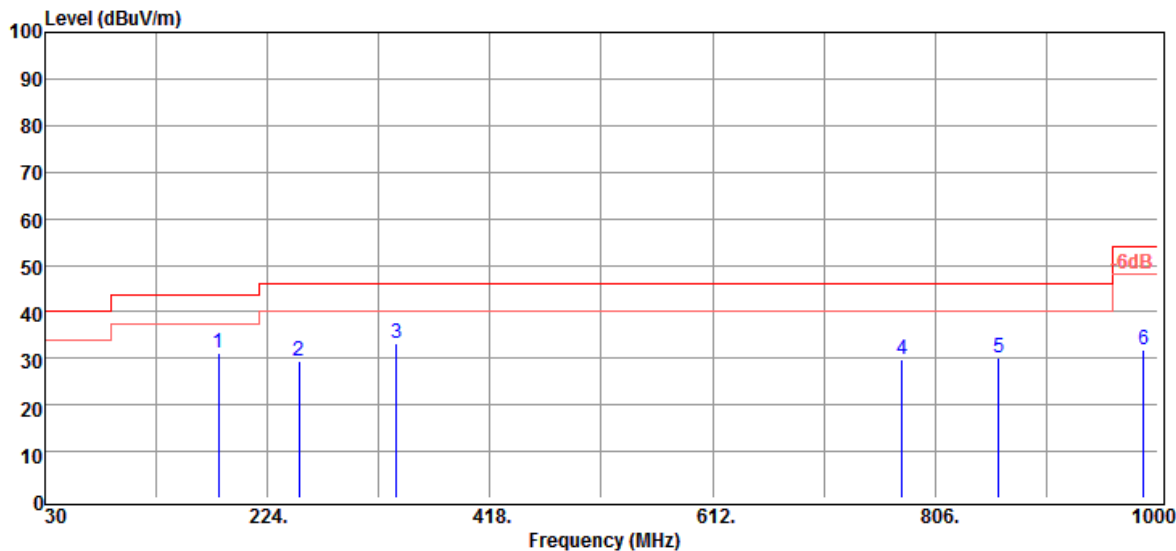
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
37.76	Peak	37.20	-7.18	30.02	40.00	-9.98
101.78	Peak	40.89	-11.50	29.39	43.50	-14.11
175.50	Peak	39.71	-10.44	29.27	43.50	-14.23
336.52	Peak	37.91	-6.48	31.43	46.00	-14.57
775.93	Peak	28.67	2.69	31.36	46.00	-14.64
994.18	Peak	27.53	6.31	33.84	54.00	-20.16

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Operation Mode	:802.11g	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Jerry



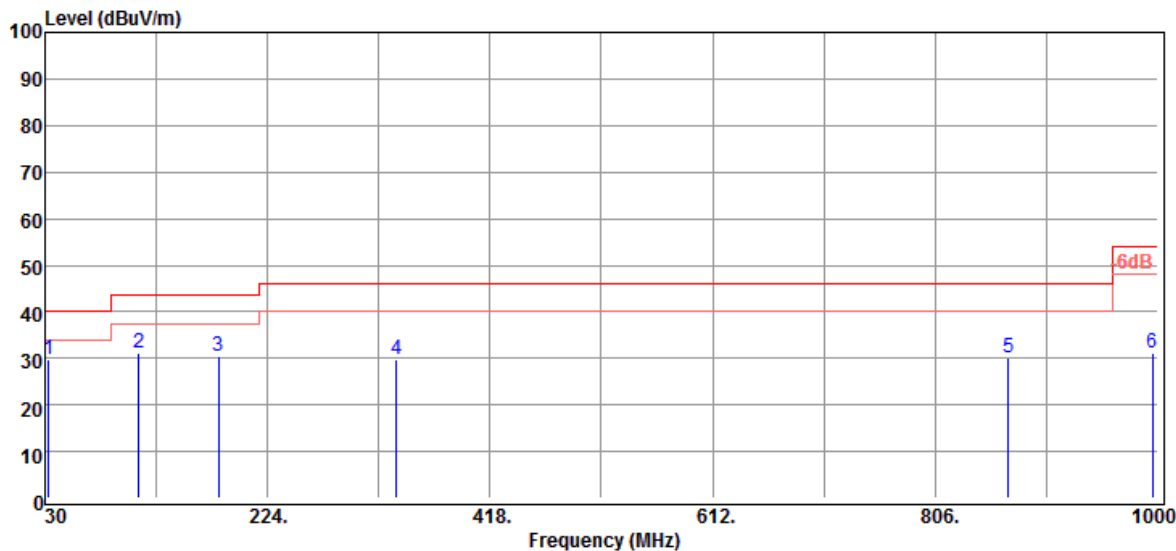
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
181.32	Peak	41.85	-10.65	31.20	43.50	-12.30
251.16	Peak	39.32	-9.79	29.53	46.00	-16.47
336.52	Peak	39.60	-6.48	33.12	46.00	-12.88
776.90	Peak	27.09	2.68	29.77	46.00	-16.23
861.29	Peak	25.98	4.16	30.14	46.00	-15.86
987.39	Peak	25.33	6.44	31.77	54.00	-22.23

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Operation Mode	:802.11g	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2437 MHz	Engineer	:Jerry



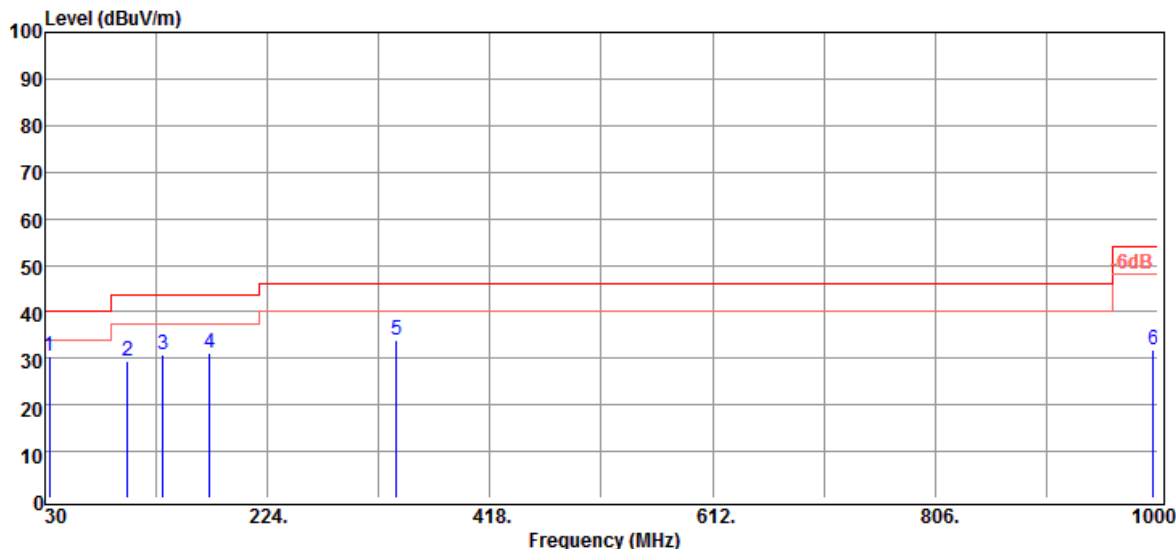
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
32.91	Peak	33.38	-3.62	29.76	40.00	-10.24
111.48	Peak	40.59	-9.33	31.26	43.50	-12.24
181.32	Peak	41.25	-10.65	30.60	43.50	-12.90
336.52	Peak	36.24	-6.48	29.76	46.00	-16.24
870.02	Peak	26.34	3.91	30.25	46.00	-15.75
995.15	Peak	24.81	6.29	31.10	54.00	-22.90

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Operation Mode	:802.11g	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2437 MHz	Engineer	:Jerry



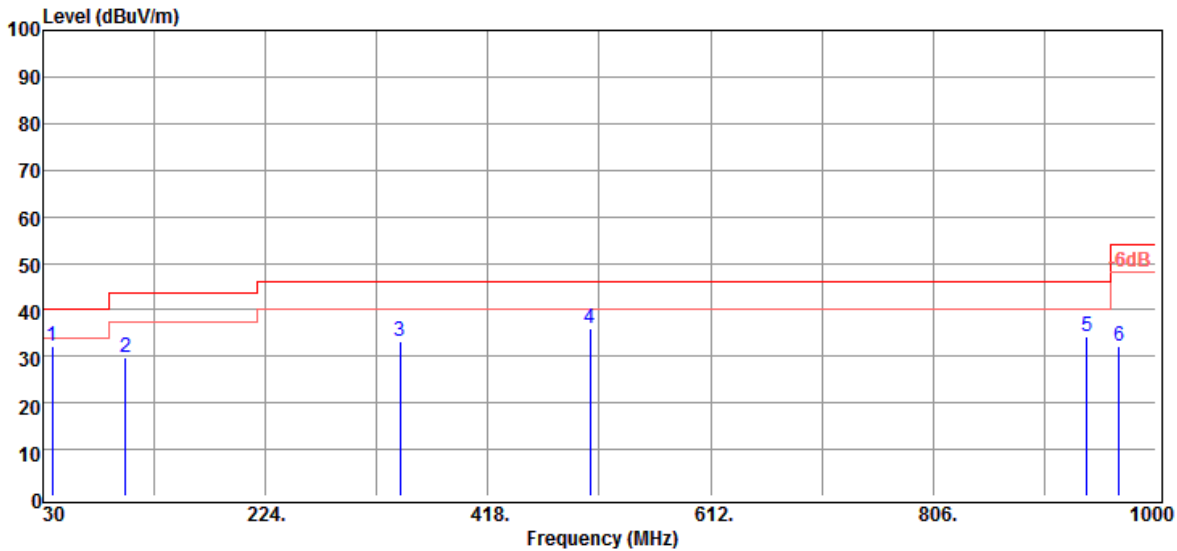
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.88	Peak	34.55	-4.13	30.42	40.00	-9.58
101.78	Peak	40.78	-11.50	29.28	43.50	-14.22
132.82	Peak	39.40	-8.67	30.73	43.50	-12.77
173.56	Peak	41.67	-10.36	31.31	43.50	-12.19
336.52	Peak	40.38	-6.48	33.90	46.00	-12.10
996.12	Peak	25.42	6.31	31.73	54.00	-22.27

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Operation Mode	:802.11g	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Jerry



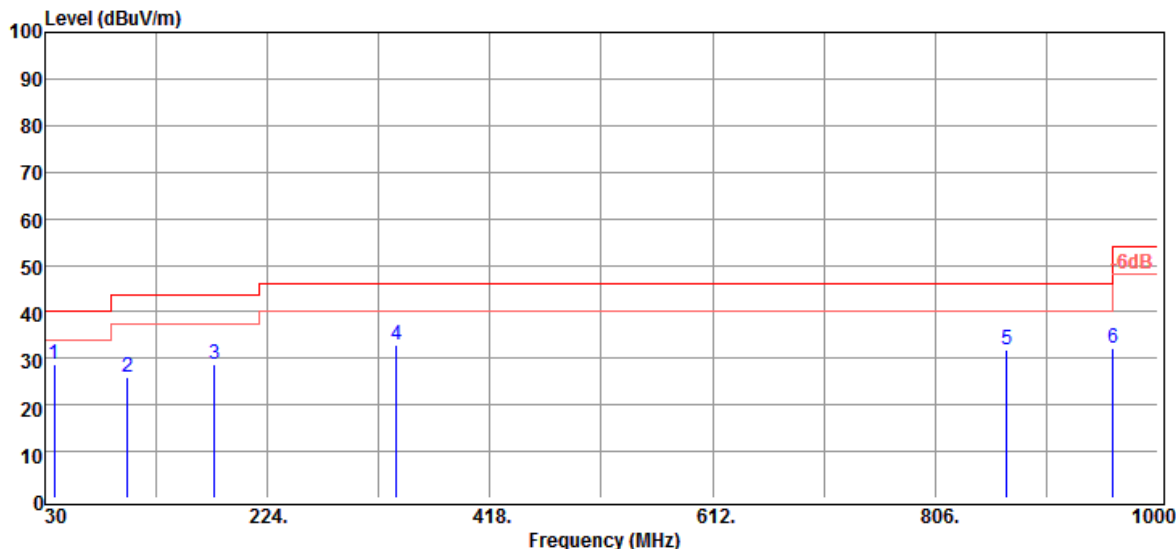
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
37.76	Peak	39.19	-7.18	32.01	40.00	-7.99
101.78	Peak	41.13	-11.50	29.63	43.50	-13.87
341.37	Peak	39.74	-6.44	33.30	46.00	-12.70
507.24	Peak	38.01	-2.08	35.93	46.00	-10.07
939.86	Peak	29.20	5.04	34.24	46.00	-11.76
967.99	Peak	25.56	6.46	32.02	54.00	-21.98

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Operation Mode	:802.11g	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
37.76	Peak	35.87	-7.18	28.69	40.00	-11.31
101.78	Peak	37.33	-11.50	25.83	43.50	-17.67
177.44	Peak	39.20	-10.52	28.68	43.50	-14.82
336.52	Peak	39.40	-6.48	32.92	46.00	-13.08
868.08	Peak	27.89	3.94	31.83	46.00	-14.17
961.20	Peak	26.14	5.94	32.08	54.00	-21.92

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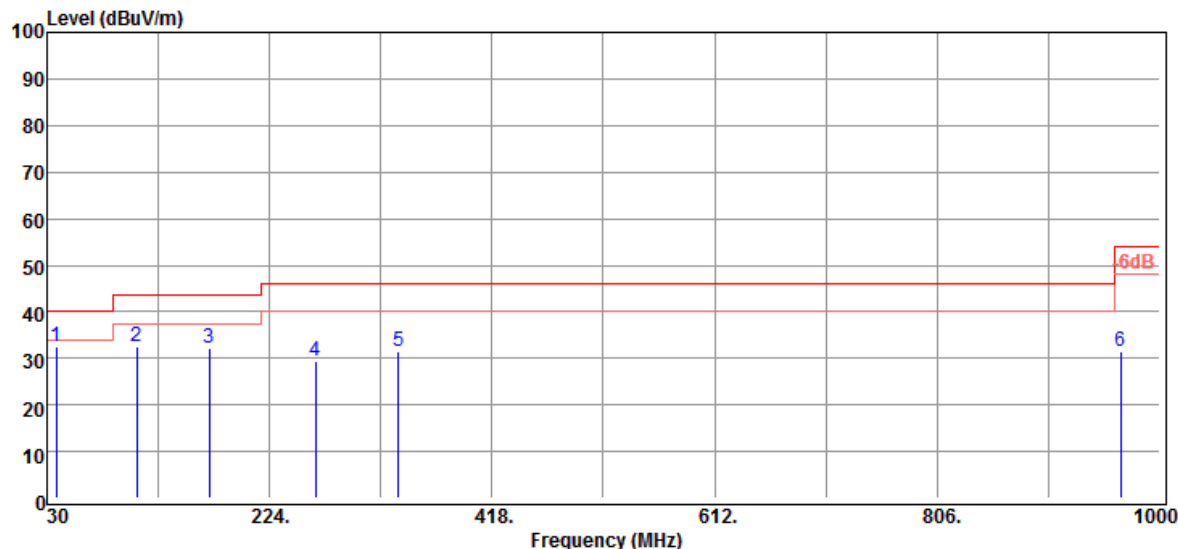
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Radiated Spurious Emission Measurement Result (802.11n_HT40)

Operation Mode :802.11n40
 Test Mode :TX CH LOW
 EUT Pol :H Plan
 Test Channel :2422 MHz

Test Date :2019-03-13
 Temp./Humi. :22/57
 Antenna Pol. :VERTICAL
 Engineer :Jerry



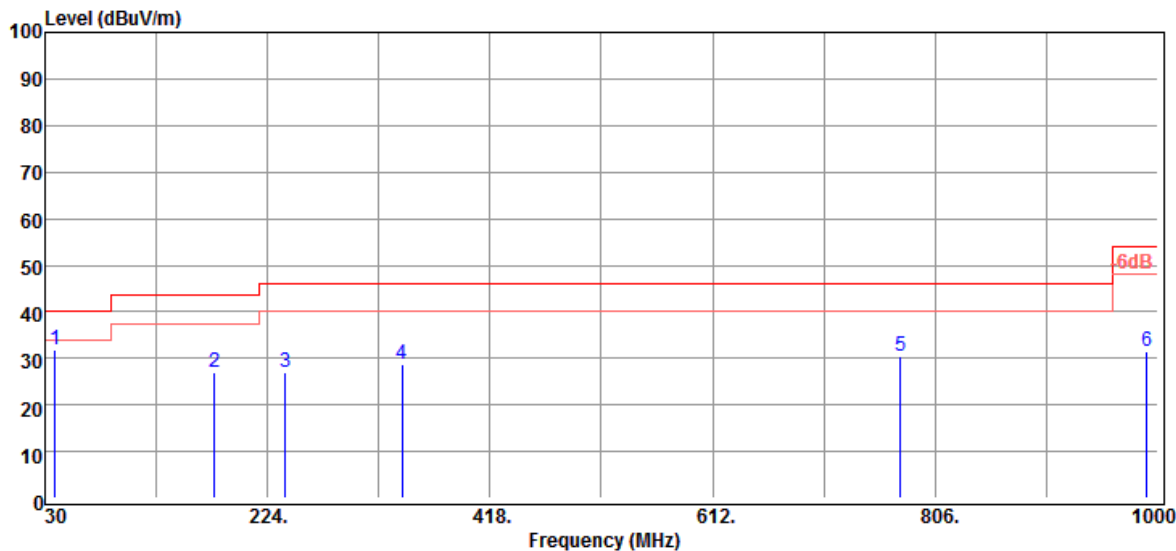
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
37.76	Peak	39.55	-7.18	32.37	40.00	-7.63
108.57	Peak	42.59	-9.93	32.66	43.50	-10.84
171.62	Peak	42.36	-10.21	32.15	43.50	-11.35
263.77	Peak	37.92	-8.42	29.50	46.00	-16.50
336.52	Peak	38.13	-6.48	31.65	46.00	-14.35
966.05	Peak	25.29	6.26	31.55	54.00	-22.45

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Operation Mode	:802.11n40	Test Date	:2019-03-13
Test Mode	:TX CH LOW	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2422 MHz	Engineer	:Jerry



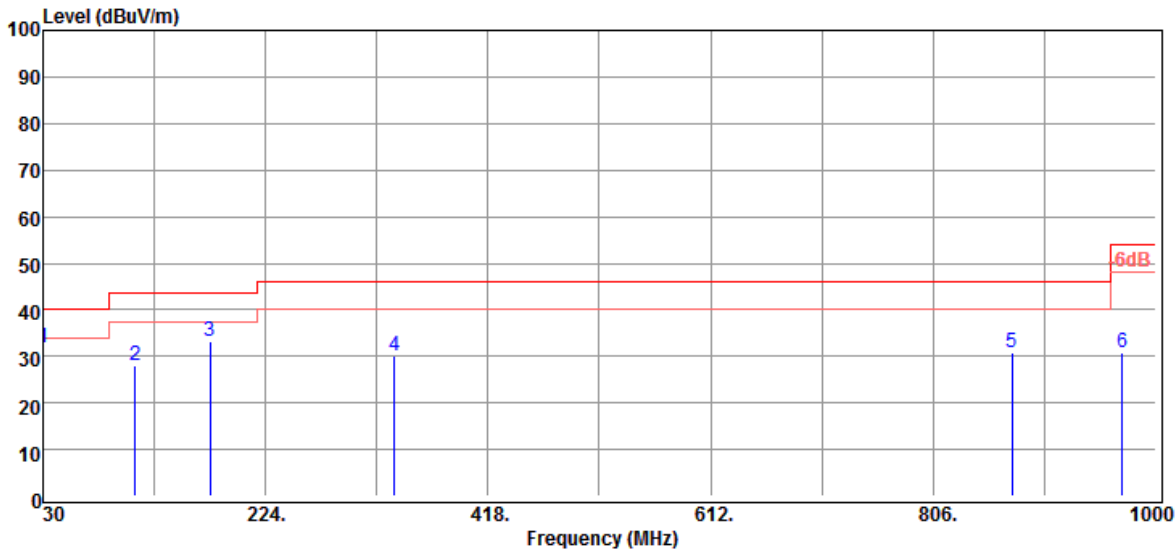
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
38.73	Peak	39.85	-7.88	31.97	40.00	-8.03
177.44	Peak	37.65	-10.52	27.13	43.50	-16.37
239.52	Peak	36.77	-9.68	27.09	46.00	-18.91
341.37	Peak	35.32	-6.44	28.88	46.00	-17.12
775.93	Peak	27.88	2.69	30.57	46.00	-15.43
990.30	Peak	25.13	6.43	31.56	54.00	-22.44

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Operation Mode	:802.11n40	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2437 MHz	Engineer	:Jerry



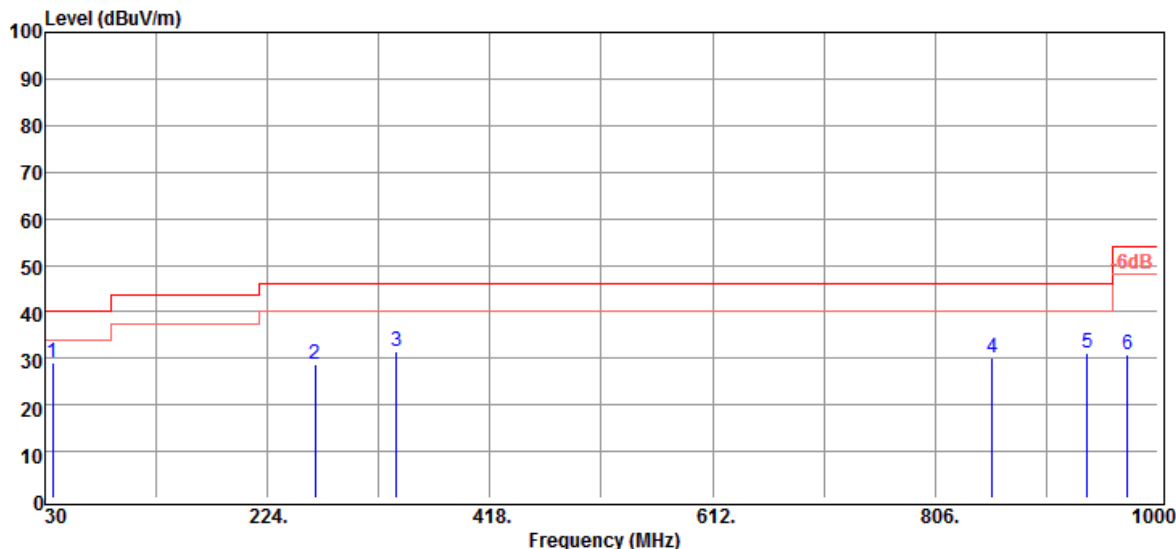
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
30.00	Peak	33.24	-1.51	31.73	40.00	-8.27
110.51	Peak	37.52	-9.48	28.04	43.50	-15.46
175.50	Peak	43.52	-10.44	33.08	43.50	-10.42
336.52	Peak	36.72	-6.48	30.24	46.00	-15.76
874.87	Peak	26.70	4.04	30.74	46.00	-15.26
970.90	Peak	24.25	6.65	30.90	54.00	-23.10

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Operation Mode	:802.11n40	Test Date	:2019-03-13
Test Mode	:TX CH MID	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2437 MHz	Engineer	:Jerry



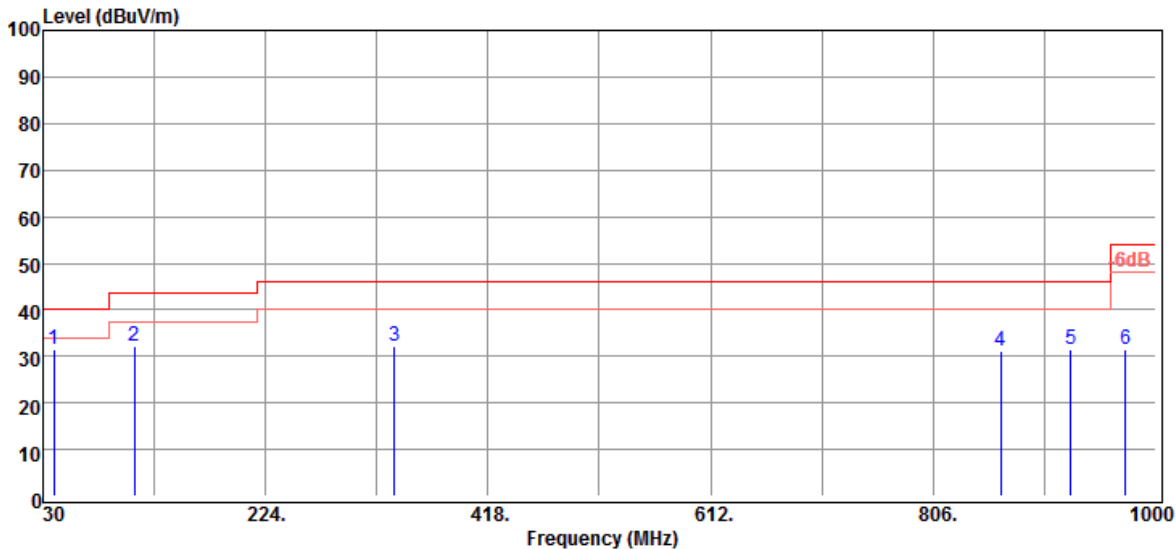
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.79	Peak	35.58	-6.42	29.16	40.00	-10.84
265.71	Peak	37.02	-8.16	28.86	46.00	-17.14
336.52	Peak	38.11	-6.48	31.63	46.00	-14.37
855.47	Peak	25.89	4.10	29.99	46.00	-16.01
938.89	Peak	26.24	5.04	31.28	46.00	-14.72
973.81	Peak	24.13	6.64	30.77	54.00	-23.23

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Operation Mode	:802.11n40	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:22/57
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2452 MHz	Engineer	:Jerry



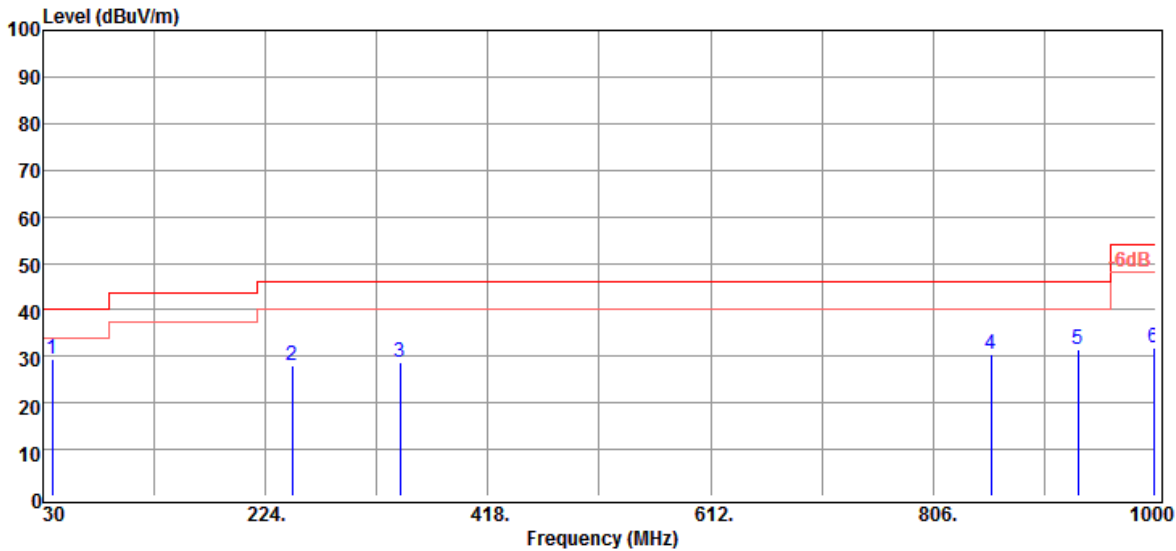
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.70	Peak	40.28	-8.62	31.66	40.00	-8.34
109.54	Peak	41.87	-9.62	32.25	43.50	-11.25
336.52	Peak	38.67	-6.48	32.19	46.00	-13.81
865.17	Peak	27.23	4.00	31.23	46.00	-14.77
926.28	Peak	26.48	4.95	31.43	46.00	-14.57
973.81	Peak	24.93	6.64	31.57	54.00	-22.43

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Operation Mode	:802.11n40	Test Date	:2019-03-13
Test Mode	:TX CH HIGH	Temp./Humi.	:23/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2452 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
37.76	Peak	36.72	-7.18	29.54	40.00	-10.46
247.28	Peak	37.86	-9.75	28.11	46.00	-17.89
341.37	Peak	35.17	-6.44	28.73	46.00	-17.27
856.44	Peak	26.25	4.12	30.37	46.00	-15.63
932.10	Peak	26.51	5.01	31.52	46.00	-14.48
998.06	Peak	25.42	6.36	31.78	54.00	-22.22

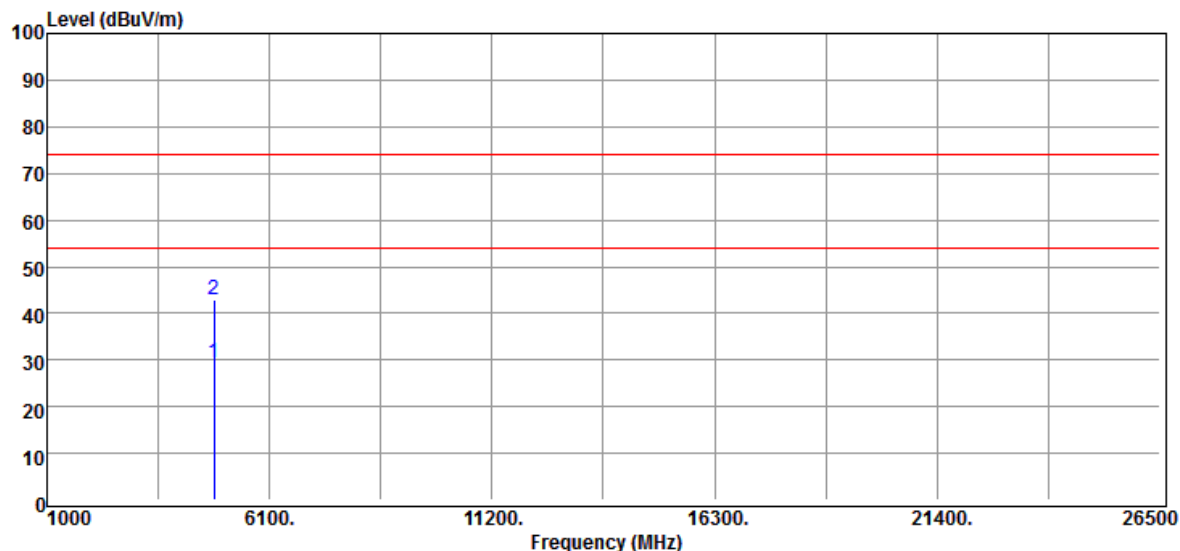
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Above 1GHz Data:**Radiated Spurious Emission Measurement Result (802.11 b)**

Operation Mode	:802.11b	Test Date	:2019-03-11
Test Mode	:TX CH LOW	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Jerry



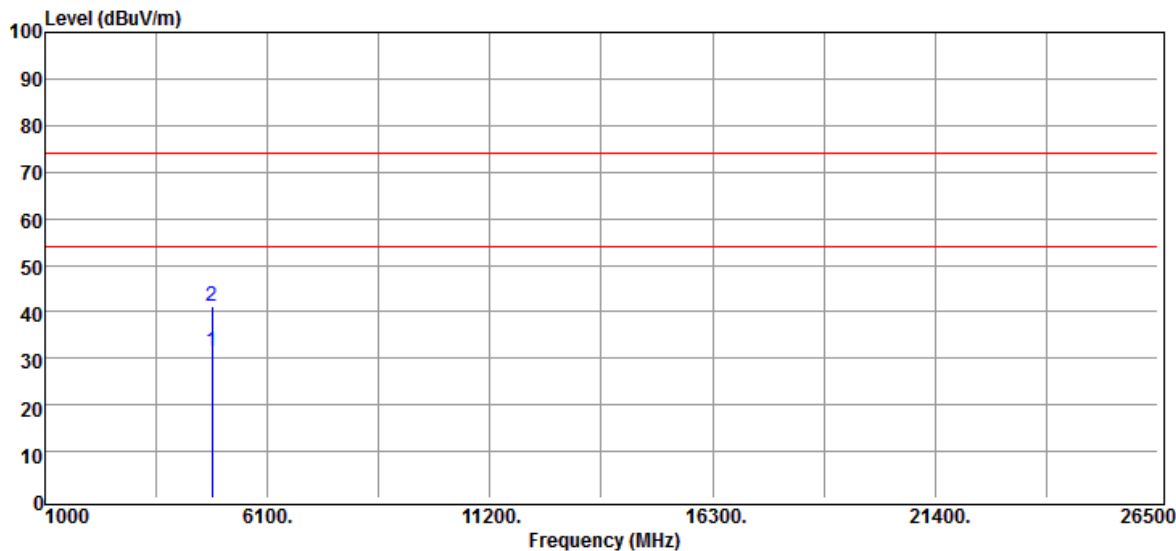
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4824.00	Average	26.37	3.02	29.39	54.00	-24.61
4824.00	Peak	39.72	3.02	42.74	74.00	-31.26

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Operation Mode	:802.11b	Test Date	:2019-03-11
Test Mode	:TX CH LOW	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Jerry



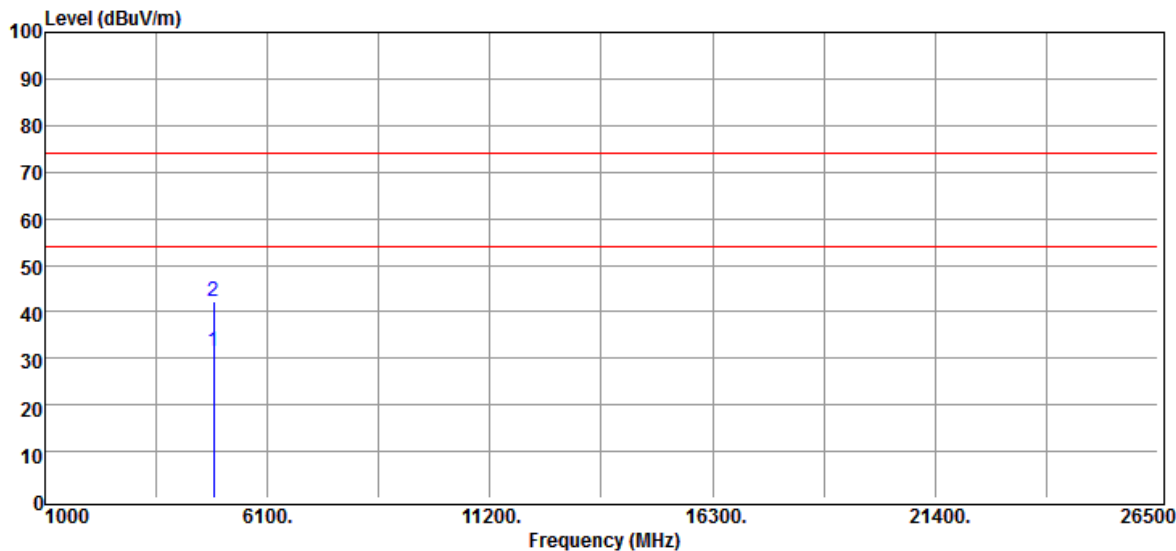
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	28.46	3.02	31.48	54.00	-22.52
4824.00	Peak	38.04	3.02	41.06	74.00	-32.94

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Operation Mode	:802.11b	Test Date	:2019-03-11
Test Mode	:TX CH MID	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2437 MHz	Engineer	:Jerry



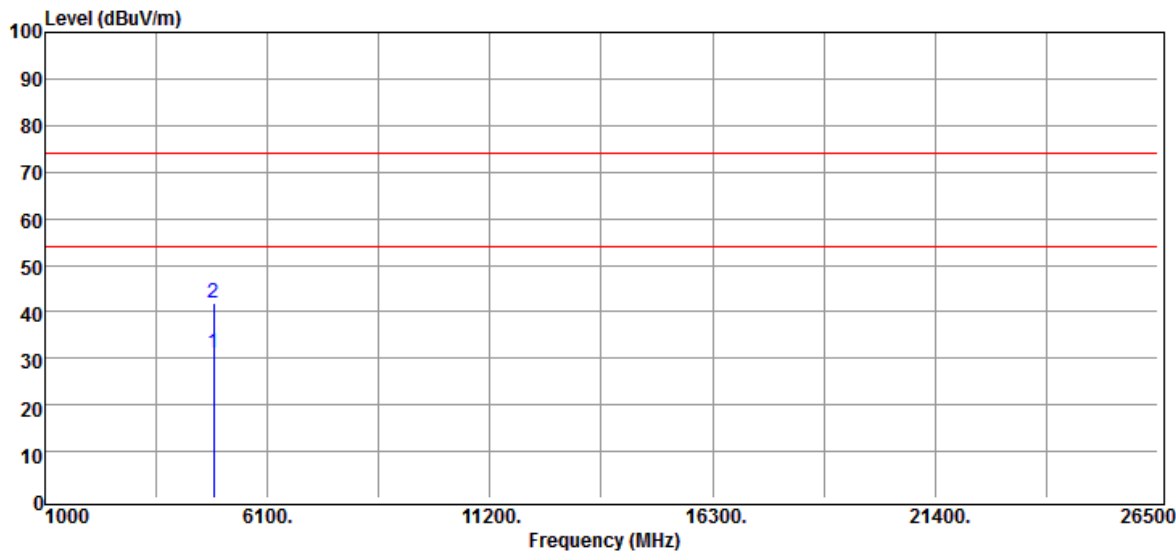
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.97	3.36	31.33	54.00	-22.67
4874.00	Peak	38.94	3.36	42.30	74.00	-31.70

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Operation Mode	:802.11b	Test Date	:2019-03-11
Test Mode	:TX CH MID	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2437 MHz	Engineer	:Jerry



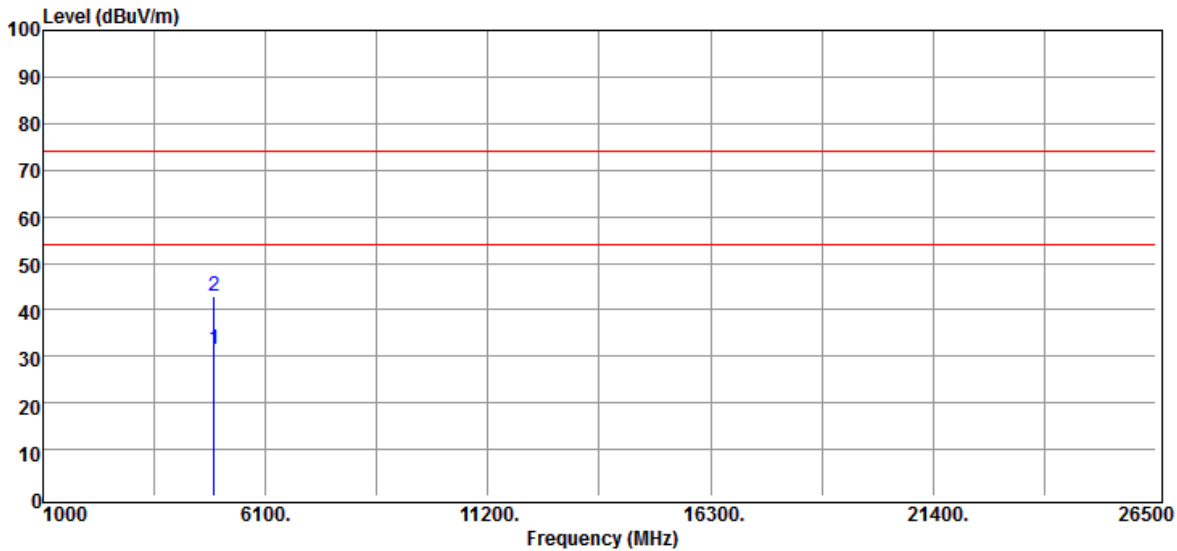
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.82	3.36	31.18	54.00	-22.82
4874.00	Peak	38.54	3.36	41.90	74.00	-32.10

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Operation Mode	:802.11b	Test Date	:2019-03-11
Test Mode	:TX CH HIGH	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Jerry



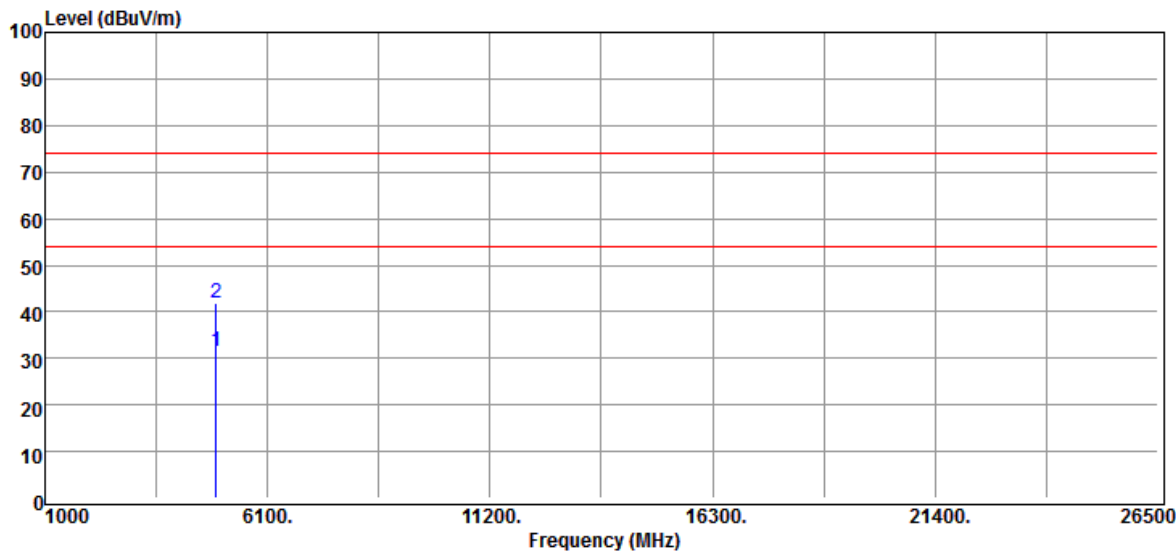
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	27.70	3.93	31.63	54.00	-22.37
4924.00	Peak	39.15	3.93	43.08	74.00	-30.92

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Operation Mode	:802.11b	Test Date	:2019-03-11
Test Mode	:TX CH HIGH	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Jerry



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	27.47	3.93	31.40	54.00	-22.60
4924.00	Peak	37.89	3.93	41.82	74.00	-32.18

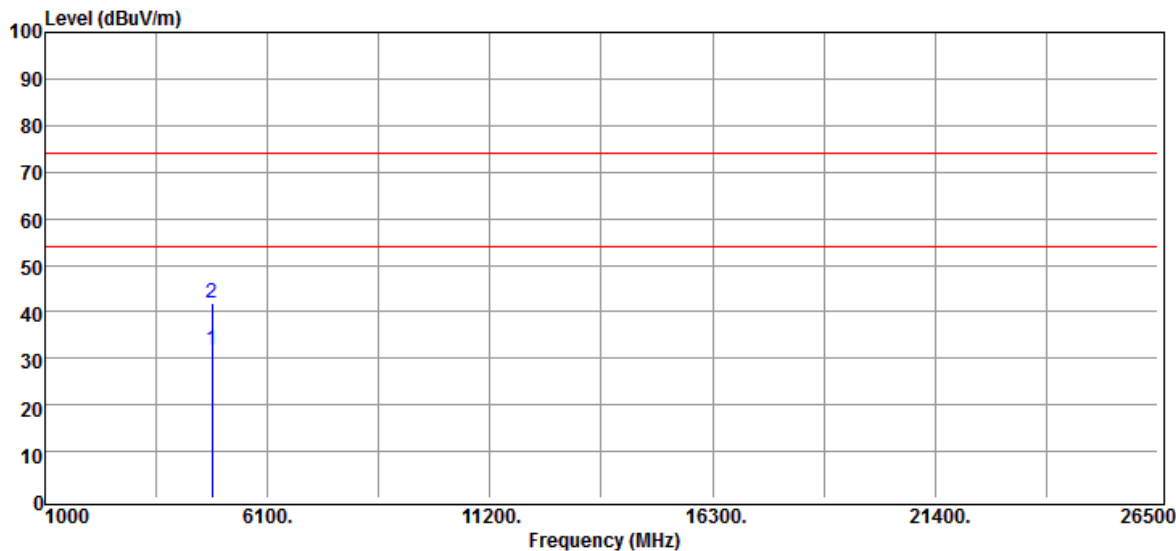
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode	:802.11g	Test Date	:2019-03-11
Test Mode	:TX CH LOW	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Jerry



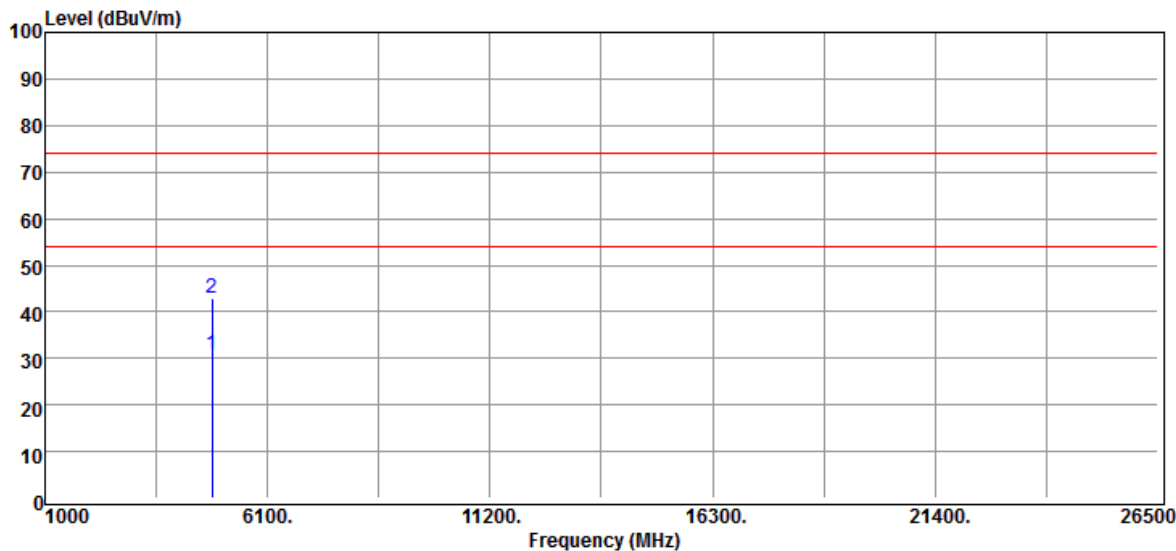
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	28.72	3.02	31.74	54.00	-22.26
4824.00	Peak	38.74	3.02	41.76	74.00	-32.24

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Operation Mode	:802.11g	Test Date	:2019-03-11
Test Mode	:TX CH LOW	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Jerry



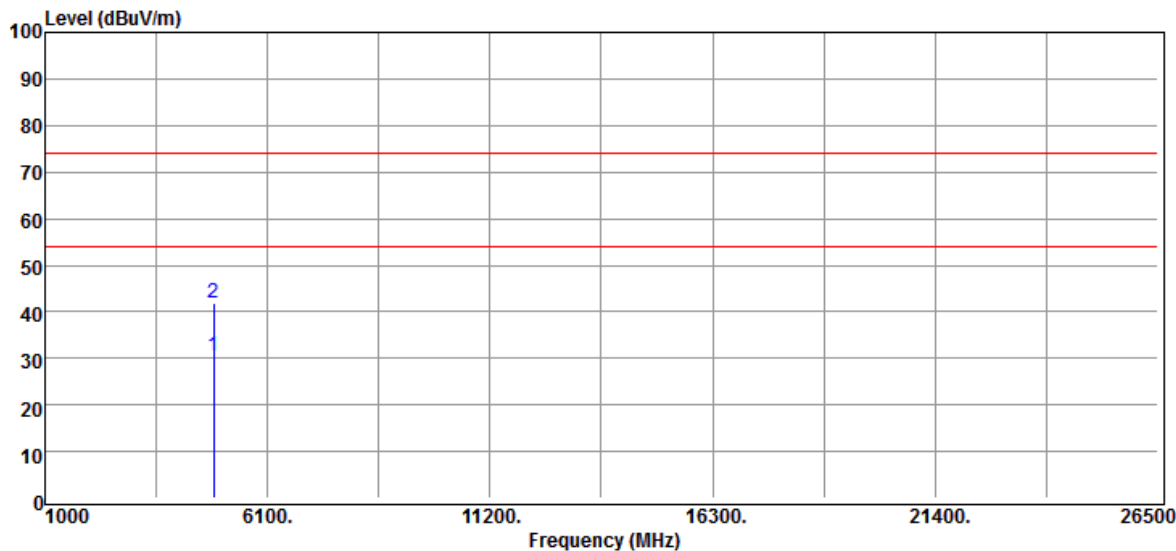
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	27.90	3.02	30.92	54.00	-23.08
4824.00	Peak	39.95	3.02	42.97	74.00	-31.03

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Operation Mode	:802.11g	Test Date	:2019-03-11
Test Mode	:TX CH MID	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2437 MHz	Engineer	:Jerry



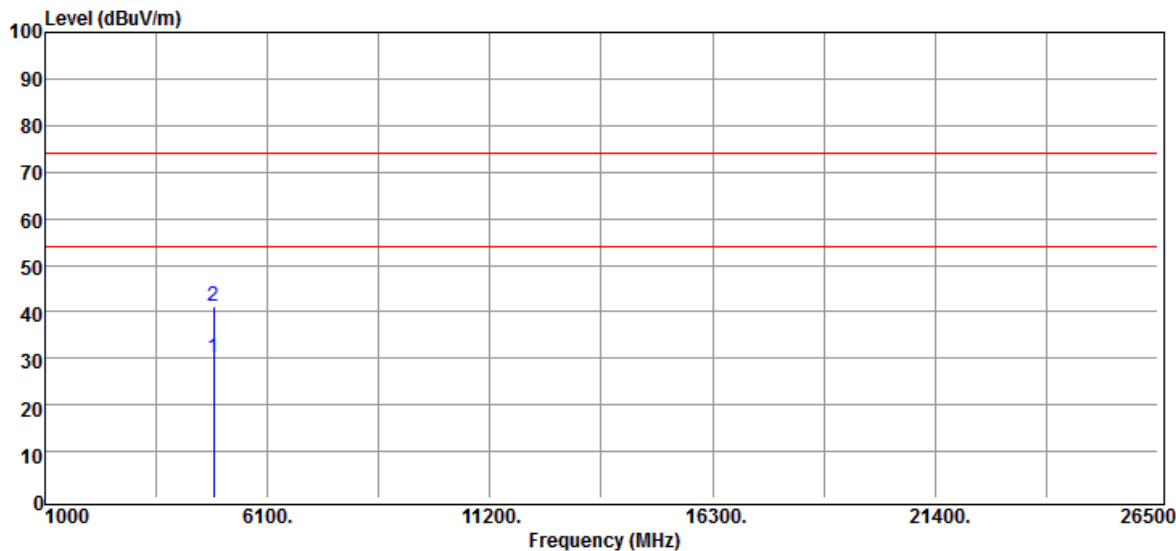
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.06	3.36	30.42	54.00	-23.58
4874.00	Peak	38.63	3.36	41.99	74.00	-32.01

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Operation Mode	:802.11g	Test Date	:2019-03-11
Test Mode	:TX CH MID	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2437 MHz	Engineer	:Jerry



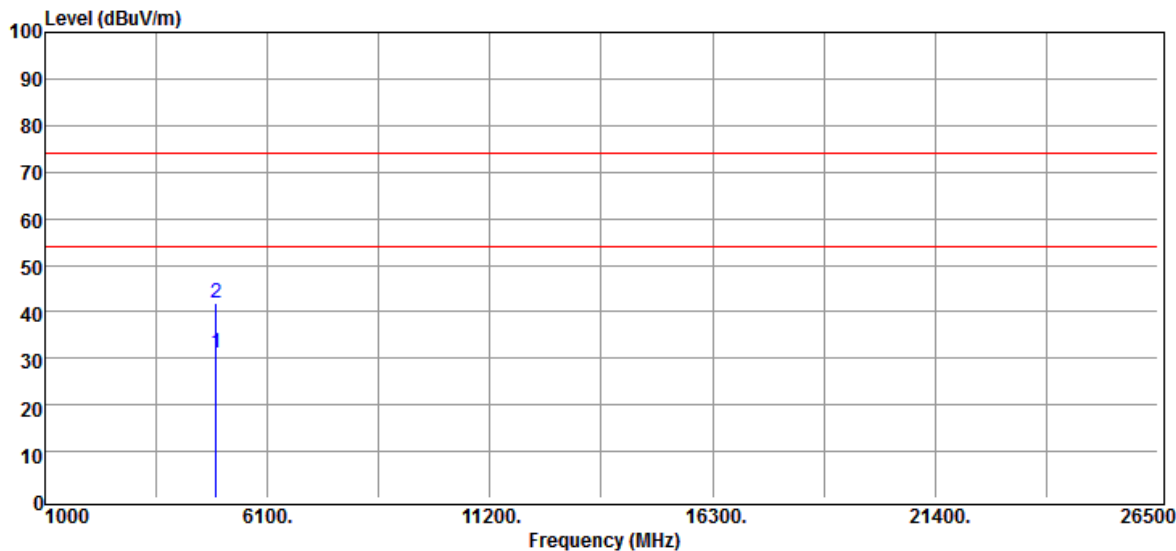
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	26.78	3.36	30.14	54.00	-23.86
4874.00	Peak	37.96	3.36	41.32	74.00	-32.68

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Operation Mode	:802.11g	Test Date	:2019-03-11
Test Mode	:TX CH HIGH	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Jerry



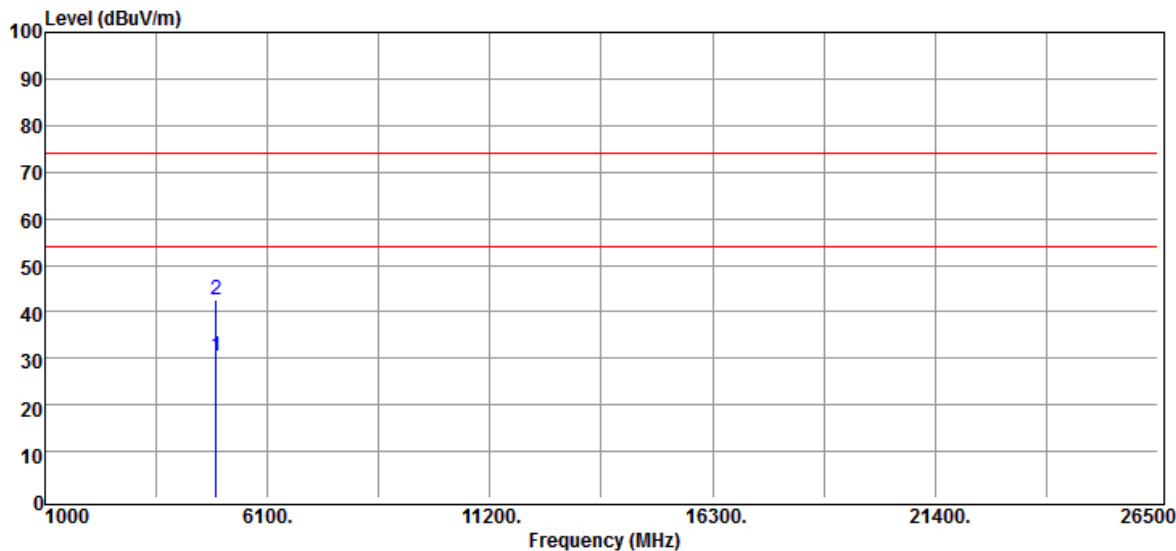
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	27.05	3.93	30.98	54.00	-23.02
4924.00	Peak	38.00	3.93	41.93	74.00	-32.07

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Operation Mode	:802.11g	Test Date	:2019-03-11
Test Mode	:TX CH HIGH	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Jerry



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	26.50	3.93	30.43	54.00	-23.57
4924.00	Peak	38.60	3.93	42.53	74.00	-31.47

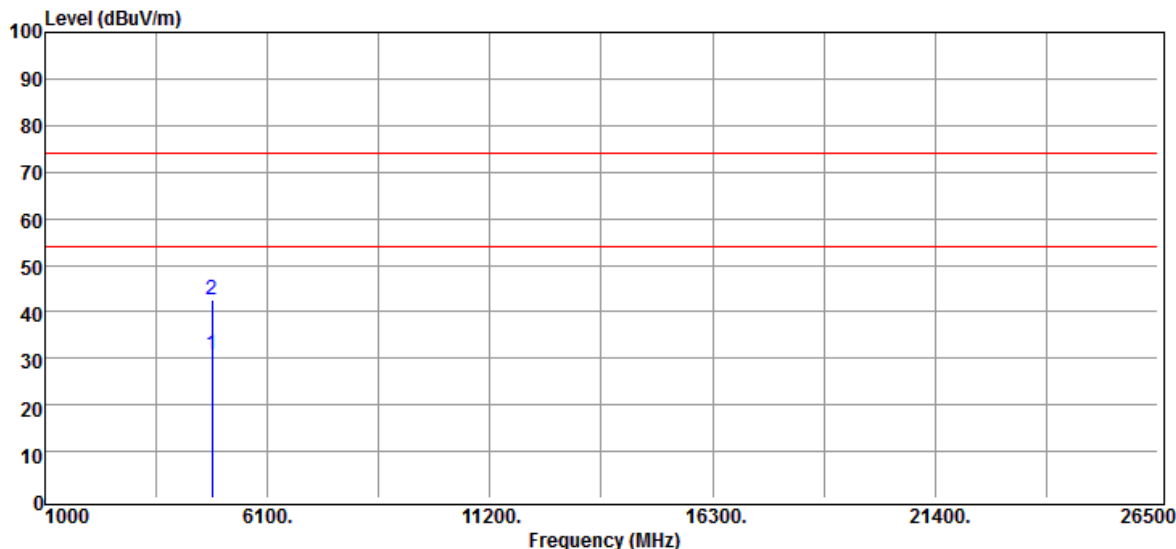
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Radiated Spurious Emission Measurement Result (802.11n_HT20)

Operation Mode	:802.11n20	Test Date	:2019-03-11
Test Mode	:TX CH HIGH	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2412 MHz	Engineer	:Jerry



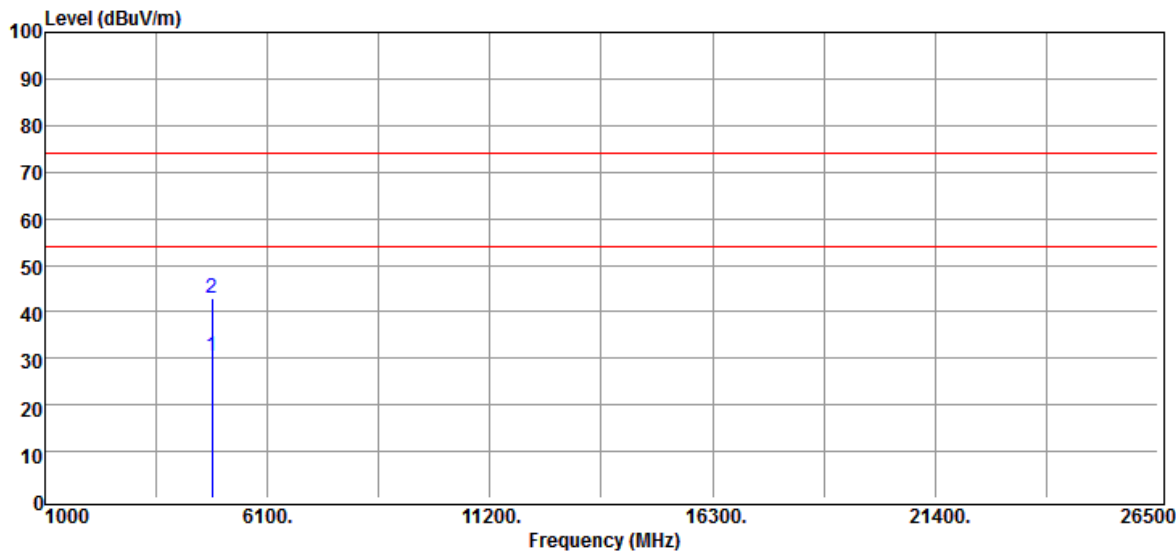
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4824.00	Average	27.76	3.02	30.78	54.00	-23.22
4824.00	Peak	39.48	3.02	42.50	74.00	-31.50

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Operation Mode	:802.11n20	Test Date	:2019-03-11
Test Mode	:TX CH HIGH	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2412 MHz	Engineer	:Jerry



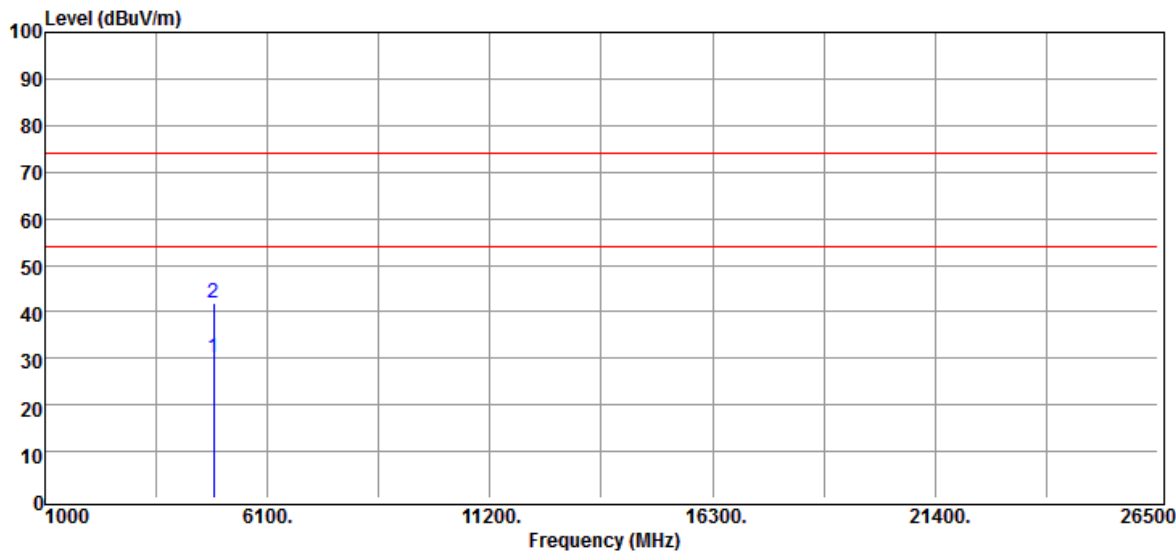
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	27.59	3.02	30.61	54.00	-23.39
4824.00	Peak	39.87	3.02	42.89	74.00	-31.11

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Operation Mode	:802.11n20	Test Date	:2019-03-11
Test Mode	:TX CH MID	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2437 MHz	Engineer	:Jerry



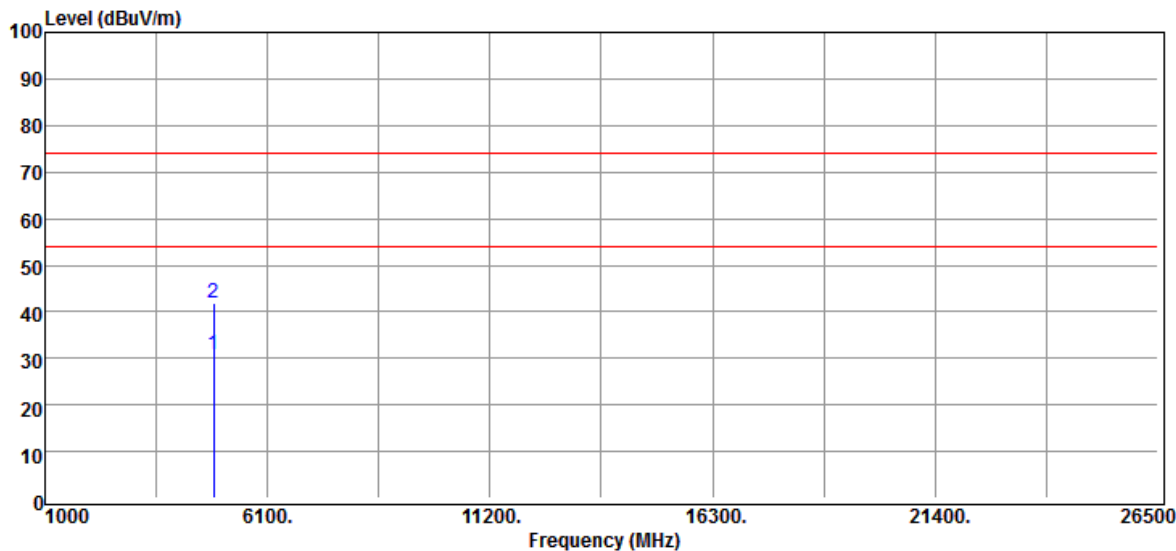
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	26.87	3.36	30.23	54.00	-23.77
4874.00	Peak	38.63	3.36	41.99	74.00	-32.01

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Operation Mode	:802.11n20	Test Date	:2019-03-11
Test Mode	:TX CH MID	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2437 MHz	Engineer	:Jerry



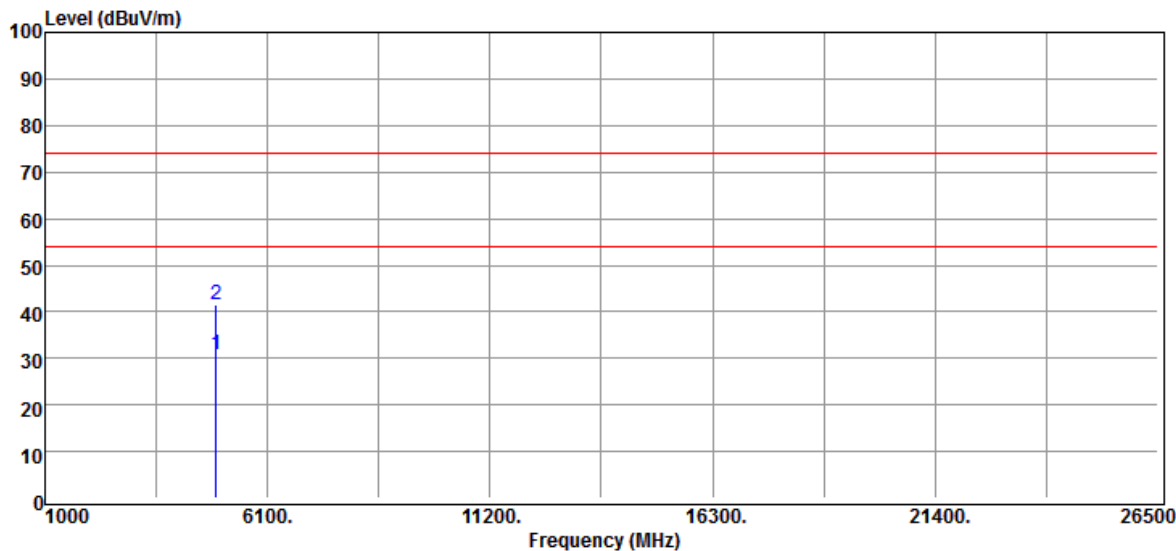
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.51	3.36	30.87	54.00	-23.13
4874.00	Peak	38.50	3.36	41.86	74.00	-32.14

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Operation Mode	:802.11n20	Test Date	:2019-03-11
Test Mode	:TX CH HIGH	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2462 MHz	Engineer	:Jerry



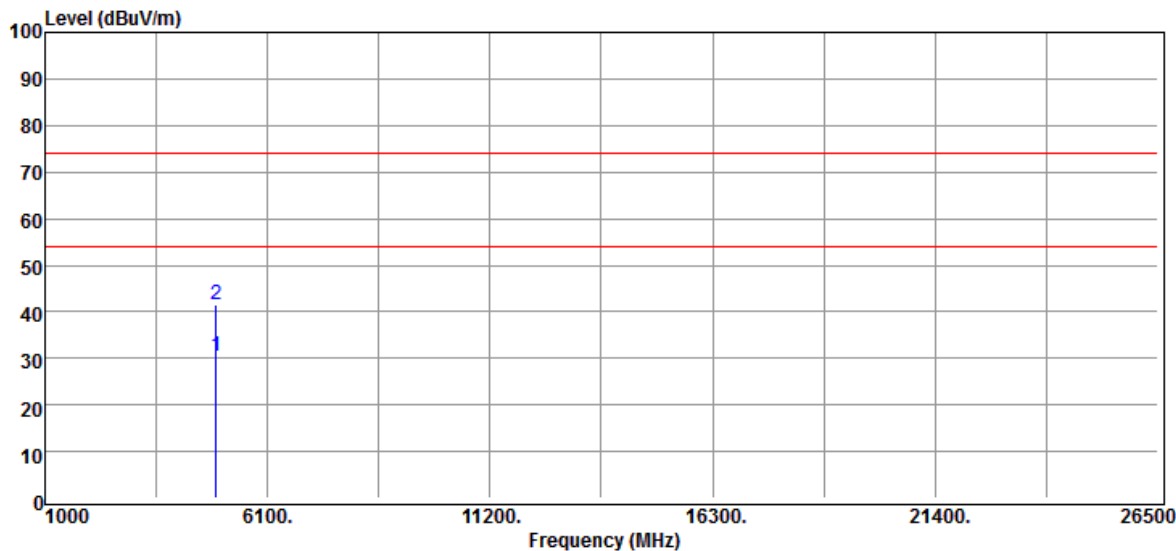
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	26.96	3.93	30.89	54.00	-23.11
4924.00	Peak	37.52	3.93	41.45	74.00	-32.55

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Operation Mode	:802.11n20	Test Date	:2019-03-11
Test Mode	:TX CH HIGH	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2462 MHz	Engineer	:Jerry



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	26.56	3.93	30.49	54.00	-23.51
4924.00	Peak	37.68	3.93	41.61	74.00	-32.39

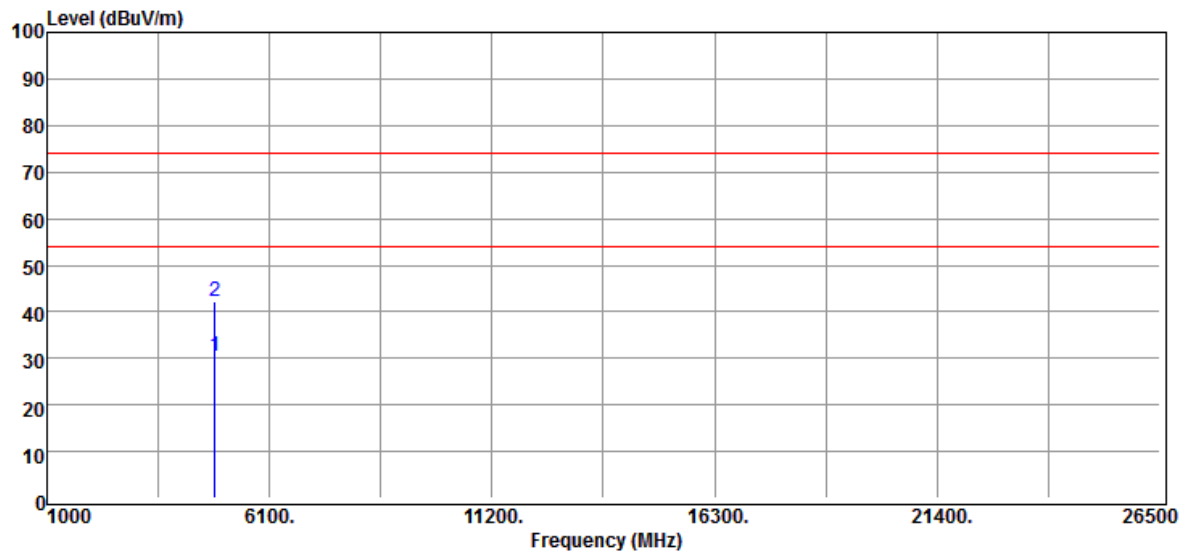
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Radiated Spurious Emission Measurement Result (802.11n_HT40)

Operation Mode	:802.11n40	Test Date	:2019-03-11
Test Mode	:TX CH LOW	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2422 MHz	Engineer	:Jerry



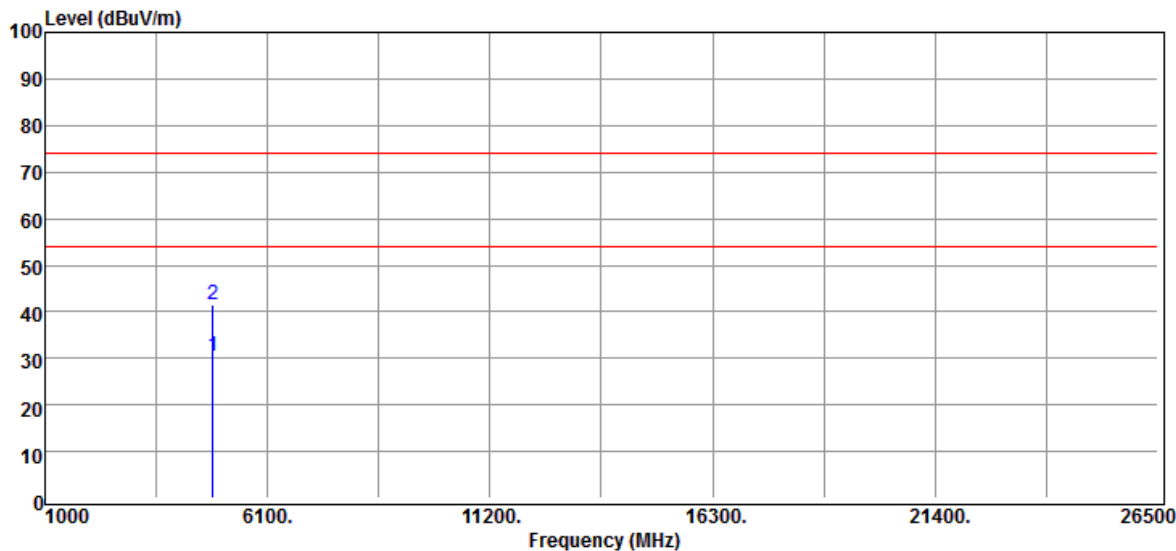
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.00	Average	27.41	3.04	30.45	54.00	-23.55
4844.00	Peak	39.28	3.04	42.32	74.00	-31.68

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Operation Mode	:802.11n40	Test Date	:2019-03-11
Test Mode	:TX CH LOW	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2422 MHz	Engineer	:Jerry



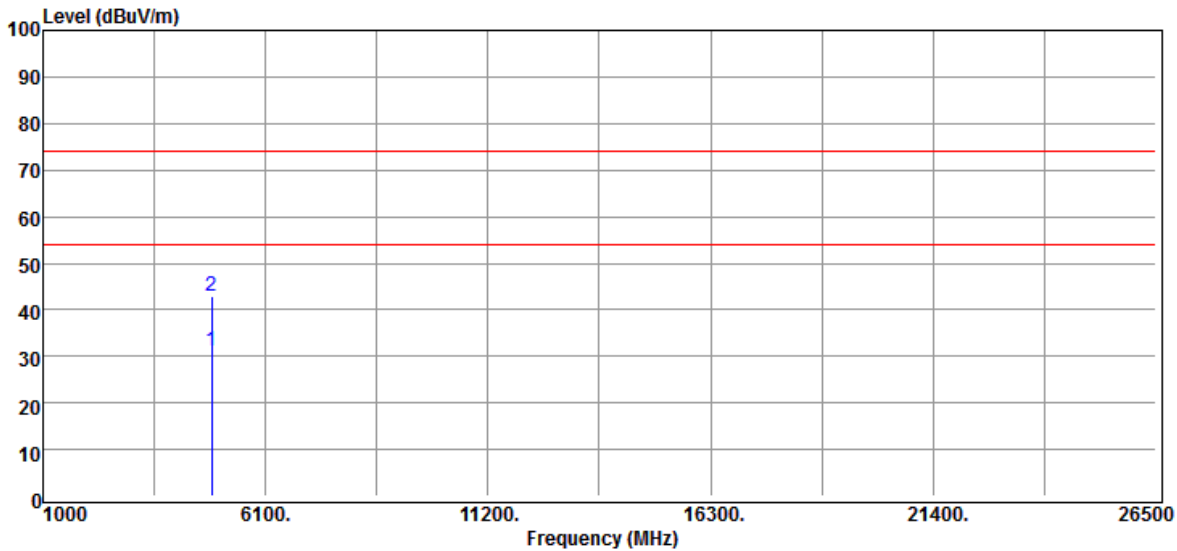
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.00	Average	27.29	3.04	30.33	54.00	-23.67
4844.00	Peak	38.43	3.04	41.47	74.00	-32.53

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Operation Mode	:802.11n40	Test Date	:2019-03-11
Test Mode	:TX CH MID	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2437 MHz	Engineer	:Jerry



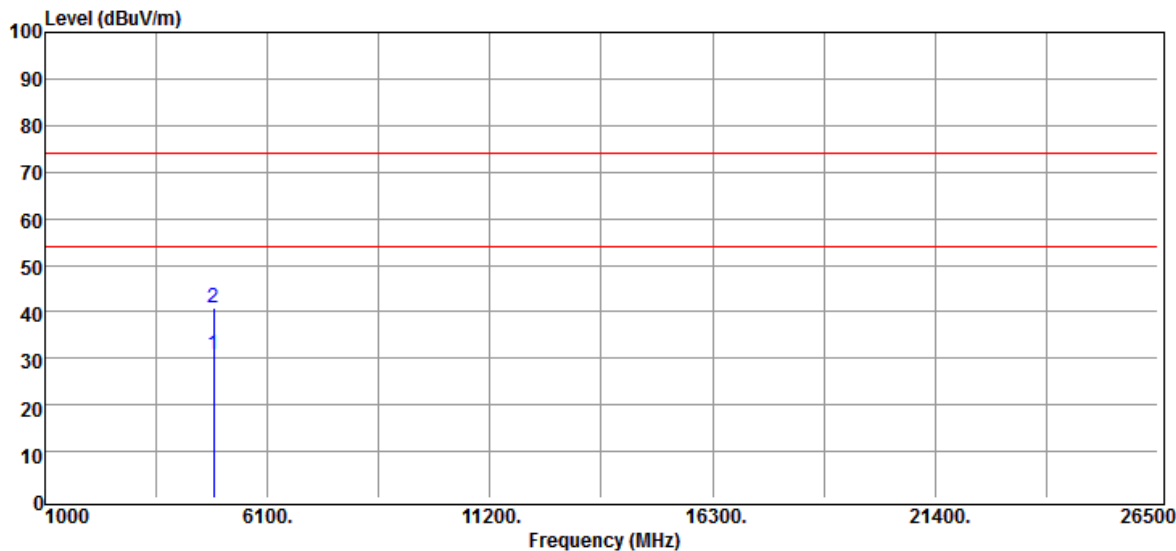
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.00	Average	27.61	3.36	30.97	54.00	-23.03
4874.00	Peak	39.67	3.36	43.03	74.00	-30.97

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Operation Mode	:802.11n40	Test Date	:2019-03-11
Test Mode	:TX CH MID	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2437 MHz	Engineer	:Jerry



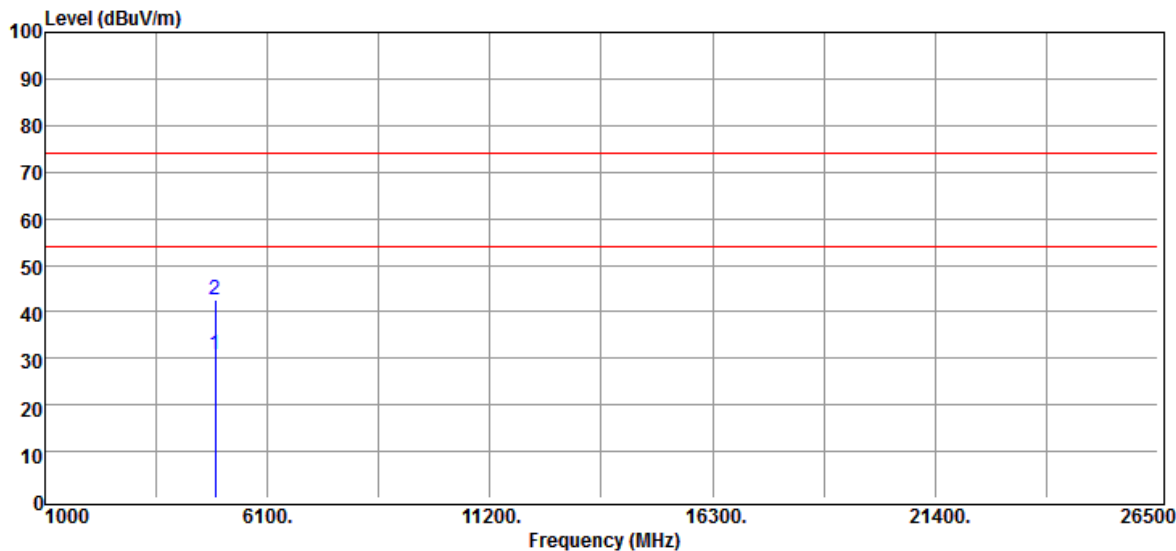
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.00	Average	27.52	3.36	30.88	54.00	-23.12
4874.00	Peak	37.64	3.36	41.00	74.00	-33.00

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Operation Mode	:802.11n40	Test Date	:2019-03-12
Test Mode	:TX CH HIGH	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2452 MHz	Engineer	:Jerry



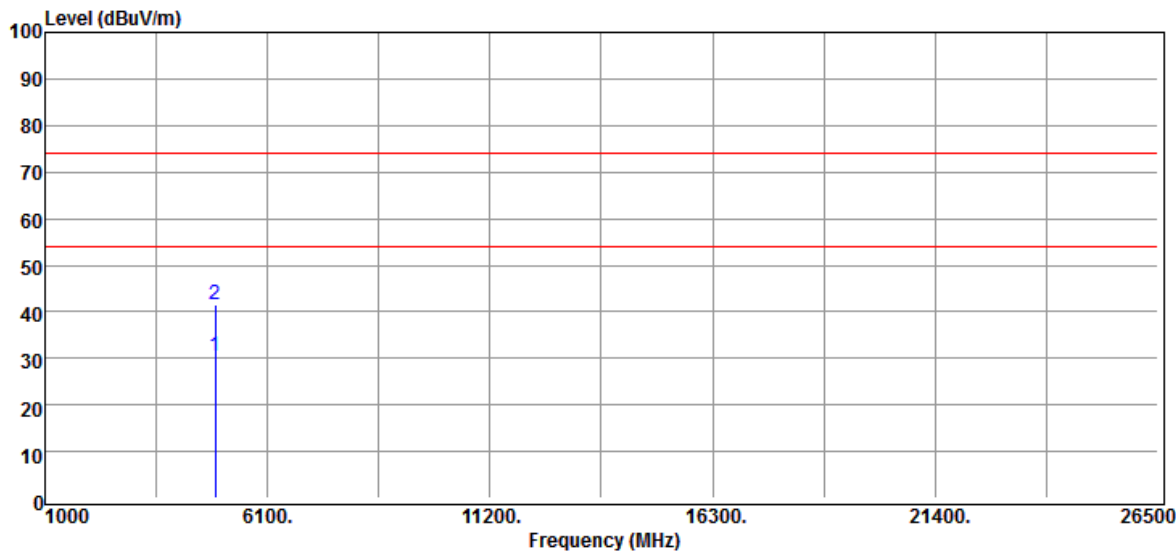
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	Average	27.21	3.64	30.85	54.00	-23.15
4904.00	Peak	39.08	3.64	42.72	74.00	-31.28

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Operation Mode	:802.11n40	Test Date	:2019-03-12
Test Mode	:TX CH HIGH	Temp./Humi.	:22/51
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2452 MHz	Engineer	:Jerry



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	26.93	3.64	30.57	54.00	-23.43
4904.00	Peak	37.82	3.64	41.46	74.00	-32.54

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

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.

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

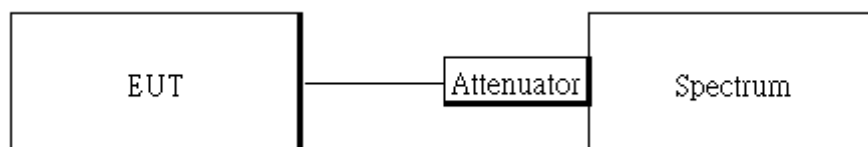
Per RSS-247 section 5.4 d

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

12.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	2018/11/21	2019/11/20
DC Power Supply	Agilent	E3640A	KR93300208	2018/08/15	2019/08/14
DC Block	PASTERNAK	PE8210	RF29	2019/02/26	2020/02/25
Attenuator	Marvelous	MVE2213-10	RF80	2019/02/26	2020/02/25

12.3 Test Set-up



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12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz. & the VBW = 10 kHz
5. For defining Restricted Band Edge Limit:
Set the RBW = 100kHz & VBW = 300 kHz.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.

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

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

[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].

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12.5 Measurement Result

POWER DENSITY 802.11b			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-11.06	8.00	PASS
2437	-7.97	8.00	PASS
2462	-10.56	8.00	PASS

POWER DENSITY 802.11g			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-12.58	8.00	PASS
2437	-9.76	8.00	PASS
2462	-12.35	8.00	PASS

POWER DENSITY 802.11n HT20			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-12.88	8.00	PASS
2437	-9.62	8.00	PASS
2462	-13.46	8.00	PASS

POWER DENSITY 802.11n HT40			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-18.72	8.00	PASS
2437	-12.95	8.00	PASS
2452	-11.28	8.00	PASS

Note

Cable Loss 11.20 dB

*Refer to next page for plots

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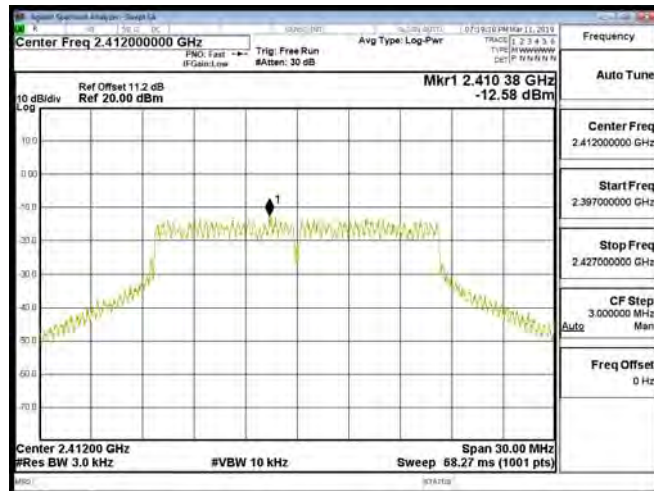
802.11b

Power Spectral Density Test Plot (CH-Low)



802.11g

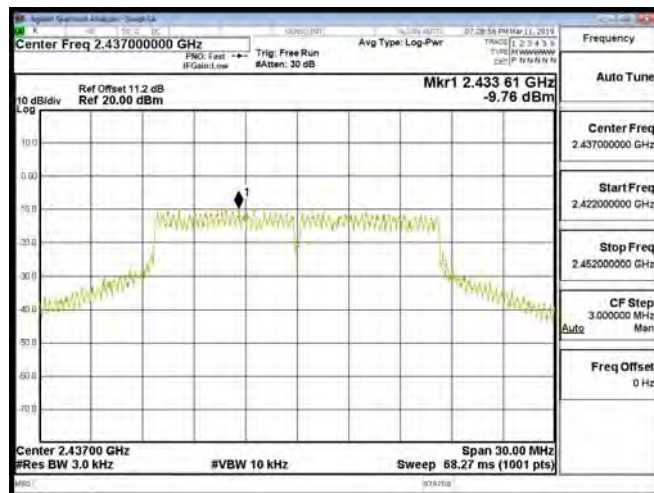
Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



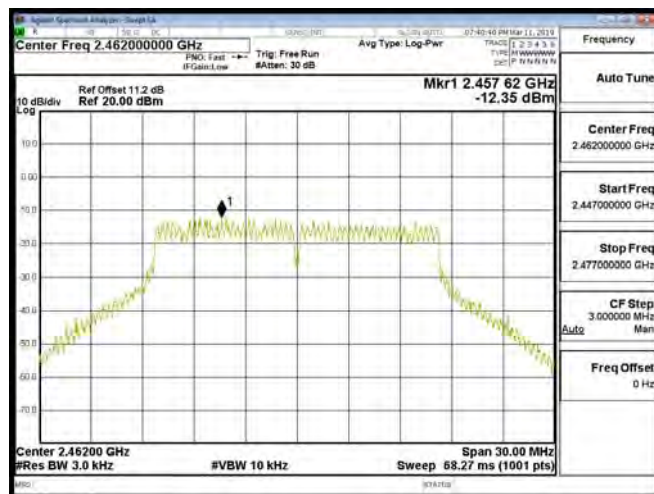
Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



Power Spectral Density Test Plot (CH-High)



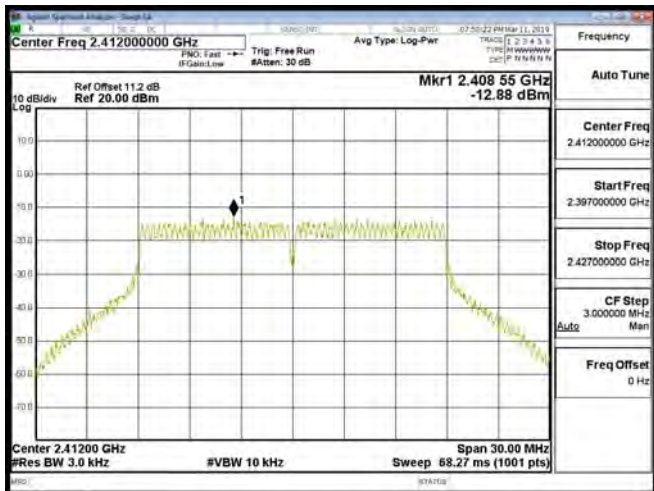
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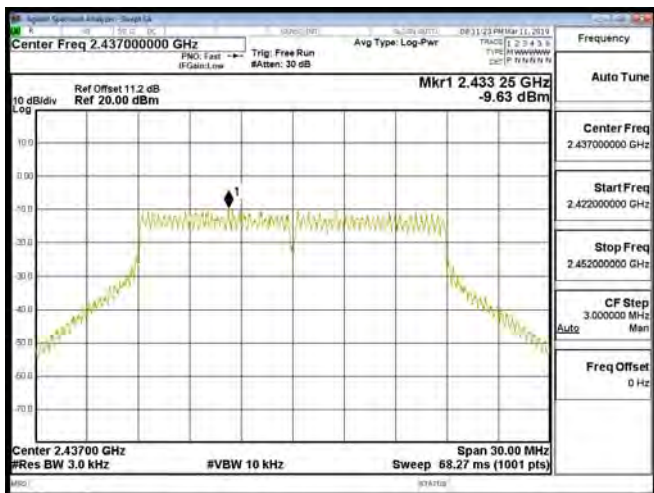
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802.11n_HT20

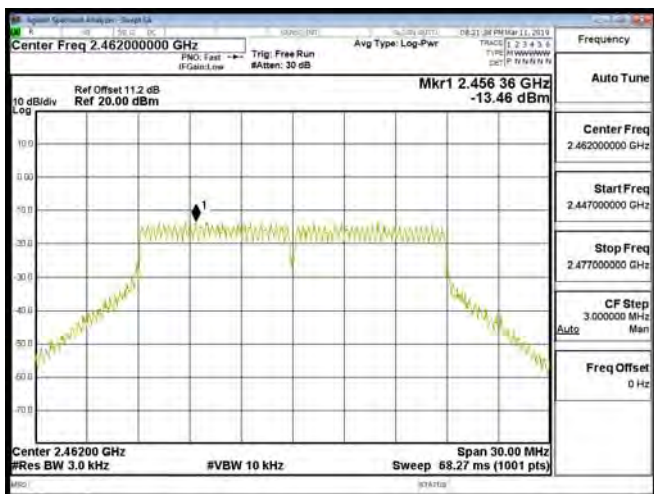
Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

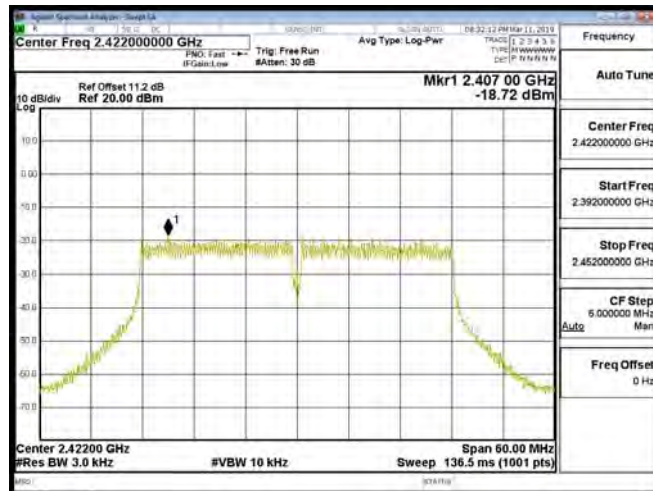


Power Spectral Density Test Plot (CH-High)

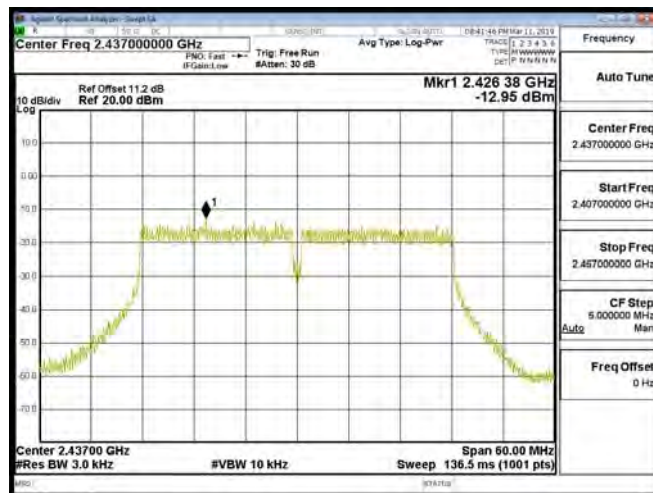


802.11n_HT40

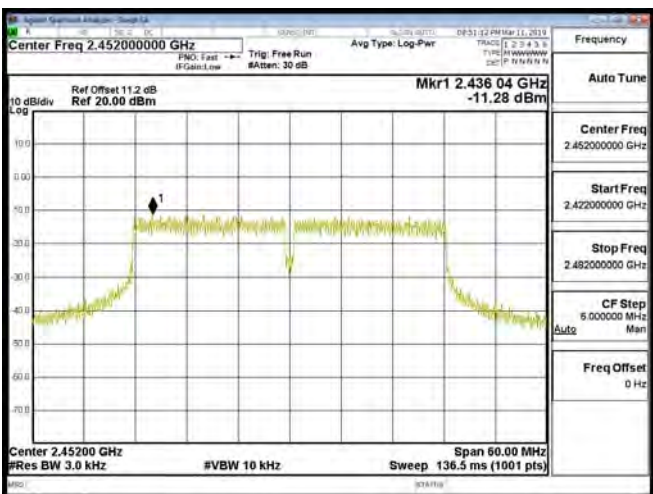
Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

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

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

13.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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