

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari, Nagaokakyo-shi, Kyoto 617-8555 Japan

Product Name: Communication Module

Brand Name: muRata

Model No.: LBEE6ZZ2AJ

Model Difference: N/A

Report Number: ER/2020/B0046

FCC ID VPYLB2AJ

IC: 772C-LB2AJ

FCC Rule Part: §15.247, Cat: DTS

IC RSS: RSS-247 issue 2 Feb 2017

Issue Date: Feb. 08, 2021

Date of Test: Nov. 19, 2020 ~ Jan. 12, 2021


Date of EUT Received: Nov. 19, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Approved By: _____



Jim Chang / Manager



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Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2020/B0046	Rev.00	Original.	Feb. 08, 2021	Revised By: Yuri Tsai

Note:

1、Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	Communication Module
Brand Name:	muRata
Model No.:	LBEE6ZZ2AJ
Model Difference:	N/A
Hardware Version:	1.0
Software Version:	1.0
EUT Series No.:	2AJ-1
Power Supply:	3.85Vdc

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (dBm)	Modulation Technology
b	2412-2462	11	21.71	DSSS,
g			25.74	OFDM, OFDMA
n_HT20 ax_HE20			HE: 28.92 (MIMO)	
n_HT40 ax_HE40	2422-2452	7	HE: 28.50 (MIMO)	
Modulation type:	CCK, DQPSK, DBPSK for DSSS in 802.11b 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11n 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax			
Transission Rate	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n_20MHz: 6.5-144.4Mbps 802.11n_40MHz: 13.5-300.0Mbps 802.11ax_20MHz: 0.4-286.8Mbps 802.11ax_40MHz: 0.4-573.5Mbps			

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1.2 Antenna Designation

Antenna Type	Supplier	Port	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
Patch	TE	Port-WLAN2	955-011-901	2412-2462	-1.9	V
	TE	Port-WLAN1	955-011-901	2412-2462	-3.3	

Note: Investigation has been done to determine the worst case scenario for the above antennas demonstrated with measurements in this report.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
FCC KDB 558074 D01 15.247 Meas Guidance v05r02
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
RSS-247 issue 2 Feb. 2017
RSS-Gen. issue 5, Amendment 1, March 2019
ANSI C63.10:2013

1.4 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803
FCC Designation number: TW0027
ISED CAB identifier: TW3702

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

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

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

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

2.4.2 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.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission configuration



Fig. 2-2 Conducted (Antenna Port) Configuration Emission



Fig. 2-3 Conducted (AC powerline) Emission Configuration

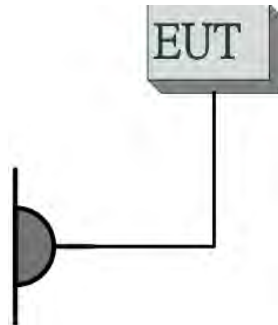


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2	Notebook	Lenovo	L430	R9-XFG0X	N/A	N/A
3	DC Power Supply	Agilent	E3640A	MY52410006	N/A	N/A
4	DC Power Supply	Agilent	E3640A	KR93300208	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 d	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 a RSS-Gen §6.7	6dB & 99% Emission Bandwidth	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 & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2 b	Power Spectral Density	Compliant
§15.203 §15.247(b)	N/A	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b/g/n/ax 20M.

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

9 channels are provided for 802.11n/ax 40M

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

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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 gevin UE is pre-scanned among below modes.

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
					1TX	2TX
<input checked="" type="checkbox"/> 802.11 b	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 g	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" type="checkbox"/> MIMO
<input checked="" type="checkbox"/> 802.11 ax	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" type="checkbox"/> MIMO

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

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4.3 Radiated Emission Test:

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
RADIATED EMISSION TEST (BELOW 1 GHz)					
802.11g	1 to 11	6	OFDM	6	Ch0
802.11ax 40M	3 to 9	6	OFDM	MCS 0	MIMO
RADIATED EMISSION TEST (ABOVE 1 GHz)					
802.11b	1 to 11	1, 6, 11	DSSS	1	Ch0
802.11g	1 to 11	1, 6, 11	OFDM	6	Ch0
802.11n 20M	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO
802.11ax 20M	1 to 11	1, 6, 11	OFDMA	MCS 0	MIMO
802.11n 40M	3 to 9	3, 6, 9	OFDM	MCS 8	MIMO
802.11n/ax 40M	3 to 9	3, 6, 9	OFDMA	MCS 0	MIMO

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

4.4 Antenna Port Conducted Measurement:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	1	Ch0
802.11g	1 to 11	1, 6, 11	OFDM	6	Ch0
802.11n 20M	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO
802.11n 40M	3 to 9	3, 6, 9	OFDM	MCS 8	MIMO

CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax 20M	1 to 11	1, 6, 11	OFDMA	Full, 26/0, 52/37, 106/53	MCS 0	MIMO
802.11ax 40M	3 to 9	3, 6, 9		Full, 242/61, 242/62	MCS 0	MIMO

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
Peak Output Power	+/- 1 dB
6dB Bandwidth	+/- 1.54 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 1.69 dB
Peak Power Density	+/- 1.54 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	DC= +/- 1%, AC= +/- 1%

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 2.64 dB	9kHz~30MHz: +-2.3dB
	+/- 4.93 dB	30MHz - 1000MHz: +/- 3.37dB
	+/- 4.81 dB	1GHz - 18GHz: +/- 4.04dB
	+/- 4.52 dB	18GHz - 40GHz: +/- 4.04dB
Polarization: Horizontal	+/- 2.64 dB	9kHz~30MHz: +-2.3dB
	+/- 4.45 dB	30MHz - 1000MHz: +/- 4.22dB
	+/- 4.81 dB	1GHz - 18GHz: +/- 4.08dB
	+/- 4.52 dB	18GHz - 40GHz: +/- 4.08dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021
LISN	SCHWARZ-BECK	NSLK 8127	8127-465	04/09/2020	04/08/2021
Coaxial Cables	N/A	Coaxial Cable	161207	12/07/2020	12/06/2021
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R

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

6.3 EUT Setup

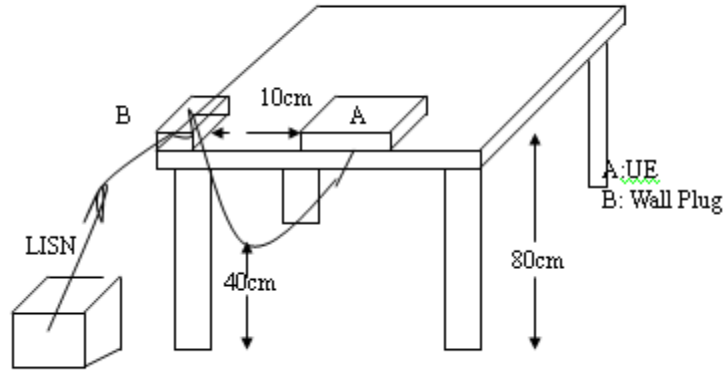
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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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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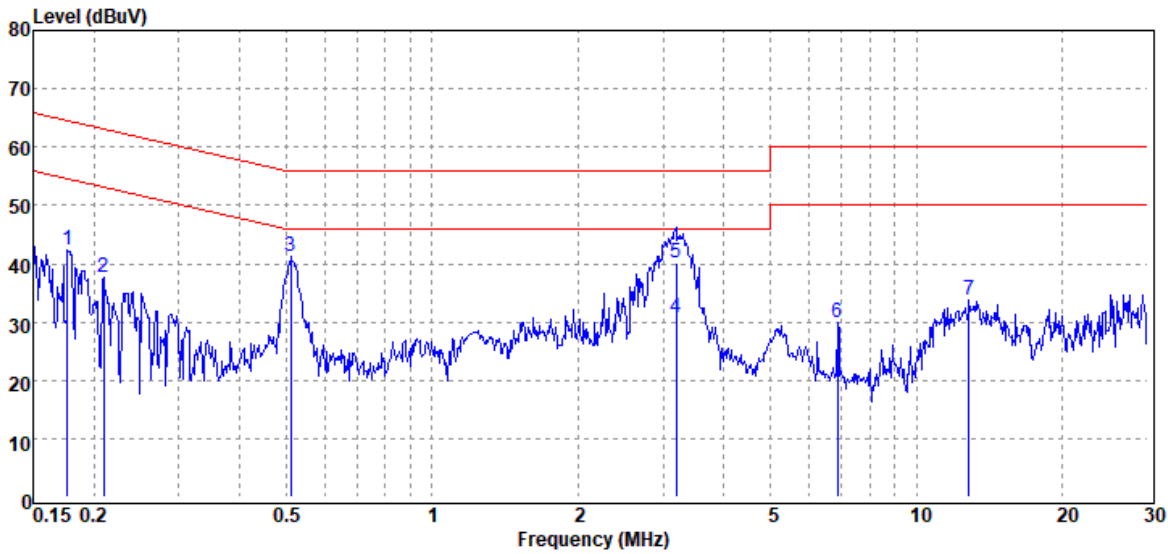
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :ER-2020-B0046
 Test Mode :WLAN 2.4G
 Power :AC 120V/60Hz
 Probe :L
 Note :

Test Site :Conduction 6F
 Test Date :2021-01-12
 Temp./Humi. :19.0/49
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.18	Peak	42.20	0.04	42.24	64.64	-22.40
0.21	Peak	37.51	0.04	37.55	63.23	-25.68
0.51	Peak	40.98	0.16	41.14	56.00	-14.86
3.19	Average	30.42	0.39	30.81	46.00	-15.19
3.19	QP	39.62	0.39	40.01	56.00	-15.99
6.88	Peak	29.21	0.67	29.88	60.00	-30.12
12.85	Peak	32.83	0.96	33.79	60.00	-26.21

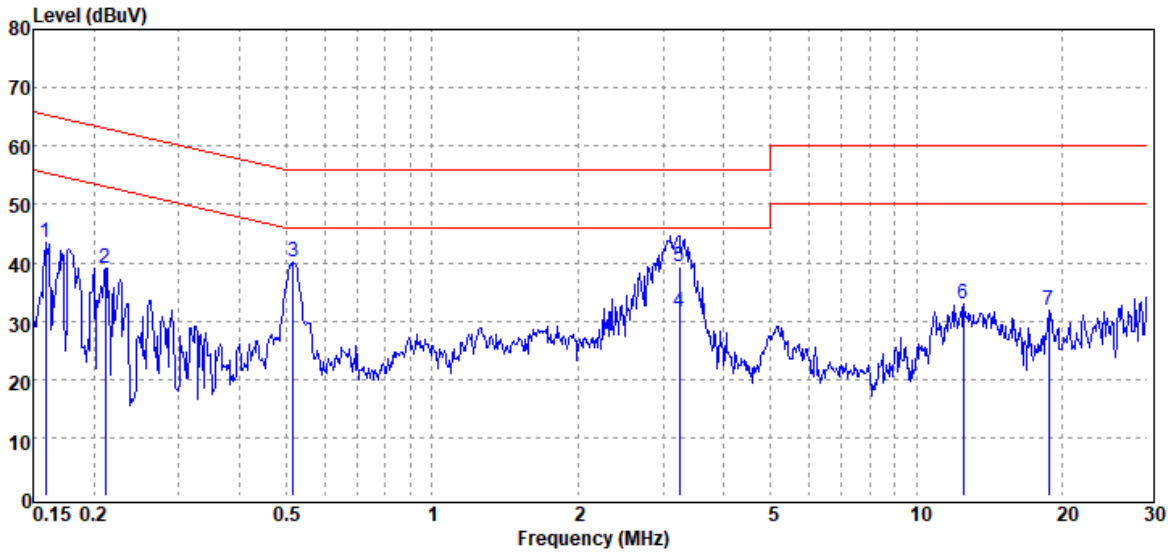
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Report Number :ER-2020-B0046
 Test Mode :WLAN 2.4G
 Power :AC 120V/60Hz
 Probe :N
 Note: :

Test Site :Conduction 6F
 Test Date :2021-01-12
 Temp./Humi. :19.0/49
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.16	Peak	43.46	0.00	43.46	65.52	-22.06
0.21	Peak	39.09	0.00	39.09	63.14	-24.05
0.52	Peak	40.13	0.10	40.23	56.00	-15.77
3.24	Average	31.43	0.10	31.53	46.00	-14.47
3.24	QP	39.21	0.10	39.31	56.00	-16.69
12.52	Peak	32.81	0.13	32.94	60.00	-27.06
18.72	Peak	31.76	0.19	31.95	60.00	-28.05

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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.

7.1 Measurement Procedure:

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

7.2 Duty Cycle:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	98.08	0.00	0.00	0.01
802.11g	99.15	0.00	0.00	0.01
802.11n_20	99.69	0.00	0.00	0.01
802.11n_40	99.71	0.00	0.00	0.01
802.11ax_20	99.69	0.00	0.00	0.01
802.11ax_40	99.71	0.00	0.00	0.01

b = 98.08%, g = 99.15%, n_ht_20 = 99.69%, n_ht_40 = 99.71%

Duty Cycle Factor: $10 * \log(1/0.9808) = 0.08$

Duty Cycle Factor: $10 * \log(1/0.9915) = 0.04$

Duty Cycle Factor: $10 * \log(1/0.9969) = 0.01$

Duty Cycle Factor: $10 * \log(1/0.9971) = 0.01$

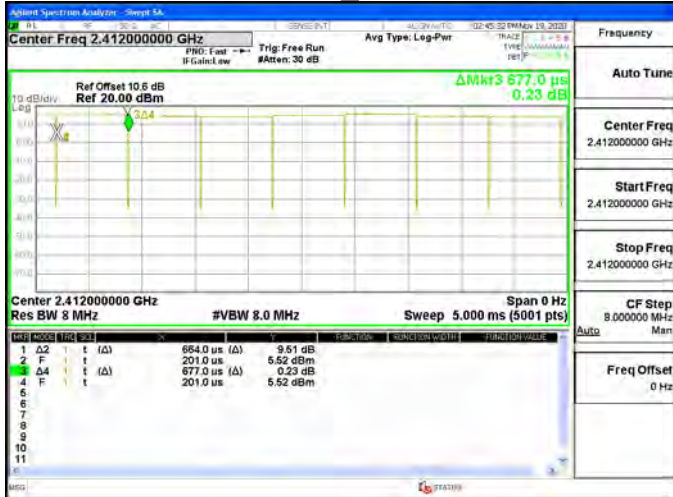
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7.3 Duty Cycle test plots

802.11b_20MHz



802.11n_20MHz



802.11g_20MHz



802.11n_40MHz



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802.11ax_20MHz



802.11ax_40MHz



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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 and the e.i.r.p. shall not exceed 4 W.

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

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

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = / 20 \log G_k$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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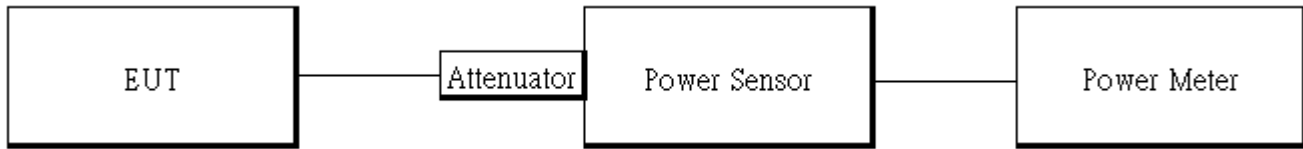
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8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804001	02/20/2020	02/19/2021
Power Sensor	Anritsu	MA2411B	1726104	02/20/2020	02/19/2021
Power Sensor	Anritsu	MA2411B	1726107	02/20/2020	02/19/2021
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021
DC Power Supply	Agilent	E3640A	KR93300208	08/19/2020	08/18/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021

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.

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

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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	21.66	30.00	PASS
6	2437	1	21.71	30.00	PASS
11	2462	1	21.38	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	18.97	30.00	PASS
6	2437	1	18.83	30.00	PASS
11	2462	1	18.99	30.00	PASS

802.11b Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	21.34	30.00	PASS
6	2437	1	21.26	30.00	PASS
11	2462	1	21.13	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	18.84	30.00	PASS
6	2437	1	18.74	30.00	PASS
11	2462	1	18.94	30.00	PASS

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802.11g Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	25.59	30.00	PASS
6	2437	6	25.74	30.00	PASS
11	2462	6	25.67	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	18.96	30.00	PASS
6	2437	6	18.78	30.00	PASS
11	2462	6	18.94	30.00	PASS

802.11g Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	25.49	30.00	PASS
6	2437	6	25.56	30.00	PASS
11	2462	6	25.62	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	18.85	30.00	PASS
6	2437	6	18.76	30.00	PASS
11	2462	6	18.80	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	25.88	30.00	PASS
6	2437	MCS0	25.88	30.00	PASS
11	2462	MCS0	25.55	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	18.97	30.00	PASS
6	2437	MCS0	18.83	30.00	PASS
11	2462	MCS0	18.99	30.00	PASS

802.11n_HT20M Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	25.81	30.00	PASS
6	2437	MCS0	25.72	30.00	PASS
11	2462	MCS0	25.48	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	18.82	30.00	PASS
6	2437	MCS0	18.73	30.00	PASS
11	2462	MCS0	18.87	30.00	PASS

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802.11n_HT20M MIMO							
CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	MCS8	25.72	25.62	28.68	30.00	PASS
6	2437	MCS8	25.81	25.74	28.79	30.00	PASS
11	2462	MCS8	25.54	25.38	28.47	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	18.96	18.72	21.87	30.00	PASS
6	2437	MCS8	18.71	18.56	21.66	30.00	PASS
11	2462	MCS8	18.95	18.66	21.83	30.00	PASS

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802.11ax_HE20M Ch0						
CH	Freq. (MHz)	Data Rate	RU Config	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	24.80	30.00	PASS
			26/0	26.13	30.00	PASS
			52/37	25.76	30.00	PASS
			106/53	25.83	30.00	PASS
6	2437	MCS0	full	24.88	30.00	PASS
11	2462	MCS0	full	24.91	30.00	PASS
			26/8	25.84	30.00	PASS
			52/40	25.77	30.00	PASS
			106/54	25.54	30.00	PASS
802.11ax_HE20M Ch0						
CH	Freq. (MHz)	Data Rate	RU Config	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	16.93	30.00	PASS
			26/0	16.89	30.00	PASS
			52/37	16.92	30.00	PASS
			106/53	16.99	30.00	PASS
6	2437	MCS0	full	16.62	30.00	PASS
11	2462	MCS0	full	16.85	30.00	PASS
			26/8	16.62	30.00	PASS
			52/40	16.71	30.00	PASS
			106/54	16.79	30.00	PASS

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802.11ax_HE20M Ch1						
CH	Freq. (MHz)	Data Rate	RU Config	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	24.72	30.00	PASS
			26/0	26.26	30.00	PASS
			52/37	25.79	30.00	PASS
			106/53	25.81	30.00	PASS
6	2437	MCS0	full	24.63	30.00	PASS
11	2462	MCS0	full	24.33	30.00	PASS
			26/8	25.59	30.00	PASS
			52/40	25.52	30.00	PASS
			106/54	25.56	30.00	PASS
802.11ax_HE20M Ch1						
CH	Freq. (MHz)	Data Rate	RU Config	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	16.58	30.00	PASS
			26/0	16.98	30.00	PASS
			52/37	16.72	30.00	PASS
			106/53	16.76	30.00	PASS
6	2437	MCS0	full	16.52	30.00	PASS
11	2462	MCS0	full	16.57	30.00	PASS
			26/8	16.90	30.00	PASS
			52/40	16.88	30.00	PASS
			106/54	16.98	30.00	PASS

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802.11ax_HE20M MIMO								
CH	Freq. (MHz)	Data Rate	RU Config	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS0	full	25.12	25.07	28.11	30.00	PASS
			26/0	26.03	25.79	28.92	30.00	PASS
			52/37	25.76	25.61	28.70	30.00	PASS
			106/53	25.74	25.67	28.72	30.00	PASS
6	2437	MCS0	full	24.88	24.46	27.69	30.00	PASS
11	2462	MCS0	full	24.69	24.48	27.60	30.00	PASS
			26/8	25.76	25.32	28.56	30.00	PASS
			52/40	25.88	25.41	28.66	30.00	PASS
			106/54	25.84	25.35	28.61	30.00	PASS
802.11ax_HE20M MIMO								
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS0	full	16.91	16.48	19.72	30.00	PASS
			26/0	17.18	16.51	19.88	30.00	PASS
			52/37	17.27	16.63	19.99	30.00	PASS
			106/53	16.91	16.28	19.63	30.00	PASS
6	2437	MCS0	full	17.28	16.61	19.98	30.00	PASS
11	2462	MCS0	full	16.87	16.52	19.72	30.00	PASS
			26/8	17.30	16.24	19.83	30.00	PASS
			52/40	17.25	16.34	19.84	30.00	PASS
			106/54	17.43	16.38	19.96	30.00	PASS

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802.11n_HT40M Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	24.86	30.00	PASS
6	2437	MCS0	25.11	30.00	PASS
9	2452	MCS0	24.99	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	17.90	30.00	PASS
6	2437	MCS0	17.74	30.00	PASS
9	2452	MCS0	17.98	30.00	PASS

802.11n_HT40M Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	24.83	30.00	PASS
6	2437	MCS0	24.60	30.00	PASS
9	2452	MCS0	24.93	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	17.60	30.00	PASS
6	2437	MCS0	17.52	30.00	PASS
9	2452	MCS0	17.92	30.00	PASS

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802.11n_HT40M MIMO							
CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
3	2422	MCS8	24.94	24.78	27.87	30.00	PASS
6	2437	MCS8	25.03	24.63	27.84	30.00	PASS
9	2452	MCS8	24.91	24.89	27.91	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	17.91	17.39	20.68	30.00	PASS
6	2437	MCS8	17.75	17.54	20.67	30.00	PASS
9	2452	MCS8	17.98	17.81	20.92	30.00	PASS

802.11ax_HE40M Ch0						
CH	Freq. (MHz)	Data Rate	RU Config	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	24.94	30.00	PASS
			242/61	25.31	30.00	PASS
6	2437	MCS0	full	24.89	30.00	PASS
9	2452	MCS0	full	24.69	30.00	PASS
			242/62	25.32	30.00	PASS
802.11ax_HE40M Ch0						
CH	Freq. (MHz)	Data Rate	RU Config	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	16.98	30.00	PASS
			242/61	15.88	30.00	PASS
6	2437	MCS0	full	16.89	30.00	PASS
9	2452	MCS0	full	16.93	30.00	PASS
			242/62	15.98	30.00	PASS

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802.11ax_HE40M Ch1						
CH	Freq. (MHz)	Data Rate	RU Config	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	24.63	30.00	PASS
			242/61	25.42	30.00	PASS
6	2437	MCS0	full	24.64	30.00	PASS
9	2452	MCS0	full	24.57	30.00	PASS
			242/62	25.14	30.00	PASS
802.11ax_HE40M Ch1						
CH	Freq. (MHz)	Data Rate	RU Config	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	16.83	30.00	PASS
			242/61	15.99	30.00	PASS
6	2437	MCS0	full	16.73	30.00	PASS
9	2452	MCS0	full	16.76	30.00	PASS
			242/62	15.95	30.00	PASS

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802.11ax_HE40M MIMO								
CH	Freq. (MHz)	Data Rate	RU Config	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS0	full	24.90	24.75	27.84	30.00	PASS
			242/6	25.62	25.36	28.50	30.00	PASS
6	2437	MCS0	full	24.69	24.53	27.62	30.00	PASS
9	2452	MCS0	full	24.83	24.79	27.82	30.00	PASS
			242/6	25.29	24.68	28.01	30.00	PASS
802.11ax_HE40M MIMO								
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS0	full	16.97	16.88	19.95	30.00	PASS
			242/6	16.28	15.64	18.99	30.00	PASS
6	2437	MCS0	full	16.85	16.75	19.82	30.00	PASS
9	2452	MCS0	full	16.95	16.71	19.85	30.00	PASS
			242/6	15.94	15.47	18.73	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	18.97	-1.90	17.07	36	PASS
6	2437	1	18.83	-1.90	16.93	36	PASS
11	2462	1	18.99	-1.90	17.09	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	18.84	-3.30	15.54	36	PASS
6	2437	1	18.74	-3.30	15.44	36	PASS
11	2462	1	18.94	-3.30	15.64	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	18.96	-1.90	17.06	36	PASS
6	2437	6	18.78	-1.90	16.88	36	PASS
11	2462	6	18.94	-1.90	17.04	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	18.85	-3.30	15.55	36	PASS
6	2437	6	18.76	-3.30	15.46	36	PASS
11	2462	6	18.80	-3.30	15.50	36	PASS

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802.11n_HT20M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	18.97	-1.90	17.07	36	PASS
6	2437	MCS0	18.83	-1.90	16.93	36	PASS
11	2462	MCS0	18.99	-1.90	17.09	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	18.82	-3.30	15.52	36	PASS
6	2437	MCS0	18.73	-3.30	15.43	36	PASS
11	2462	MCS0	18.87	-3.30	15.57	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	25.72	25.62	21.87	0.44	22.31	36	PASS
6	2437	MCS8	25.81	25.74	21.66	0.44	22.10	36	PASS
11	2462	MCS8	25.54	25.38	21.83	0.44	22.27	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	17.90	-1.90	16.00	36	PASS
6	2437	MCS0	17.74	-1.90	15.84	36	PASS
9	2452	MCS0	17.98	-1.90	16.08	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	17.60	-3.30	14.30	36	PASS
6	2437	MCS0	17.52	-3.30	14.22	36	PASS
9	2452	MCS0	17.92	-3.30	14.62	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	17.91	17.39	20.68	0.44	21.12	36	PASS
6	2437	MCS8	17.75	17.54	20.67	0.44	21.11	36	PASS
9	2452	MCS8	17.98	17.81	20.92	0.44	21.36	36	PASS

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802.11ax_HE20M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	MCS0	full	16.93	-1.90	15.03	36	PASS
			26/0	16.89	-1.90	14.99	36	PASS
			52/37	16.92	-1.90	15.02	36	PASS
			106/53	16.99	-1.90	15.09	36	PASS
6	2437	MCS0	full	16.62	-1.90	14.72	36	PASS
11	2462	MCS0	full	16.85	-1.90	14.95	36	PASS
			26/8	16.62	-1.90	14.72	36	PASS
			52/40	16.71	-1.90	14.81	36	PASS
			106/54	16.79	-1.90	14.89	36	PASS

802.11ax_HE20M Ch1								
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	MCS0	full	16.58	-3.30	13.28	36	PASS
			26/0	16.98	-3.30	13.68	36	PASS
			52/37	16.72	-3.30	13.42	36	PASS
			106/53	16.76	-3.30	13.46	36	PASS
6	2437	MCS0	full	16.52	-3.30	13.22	36	PASS
11	2462	MCS0	full	16.57	-3.30	13.27	36	PASS
			26/8	16.90	-3.30	13.60	36	PASS
			52/40	16.88	-3.30	13.58	36	PASS
			106/54	16.98	-3.30	13.68	36	PASS

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802.11ax_HE20M MIMO										
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
				CH 0	CH 1					
1	2412	MCS0	full	16.91	16.48	19.72	0.44	20.16	36	PASS
			26/0	17.18	16.51	19.88	0.44	20.32	36	PASS
			52/37	17.27	16.63	19.99	0.44	20.43	36	PASS
			106/53	16.91	16.28	19.63	0.44	20.07	36	PASS
6	2437	MCS0	full	17.28	16.61	19.98	0.44	20.42	36	PASS
11	2462	MCS0	full	16.87	16.52	19.72	0.44	20.16	36	PASS
			26/8	17.30	16.24	19.83	0.44	20.27	36	PASS
			52/40	17.25	16.34	19.84	0.44	20.28	36	PASS
			106/54	17.43	16.38	19.96	0.44	20.40	36	PASS

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802.11ax_HE40M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
3	2422	MCS0	full	16.98	-1.90	15.08	36	PASS
			242/61	15.88	-1.90	13.98	36	PASS
6	2437	MCS0	full	16.89	-1.90	14.99	36	PASS
9	2452	MCS0	full	16.93	-1.90	15.03	36	PASS
			242/62	15.98	-1.90	14.08	36	PASS

802.11ax_HE40M Ch1								
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
3	2422	MCS0	full	16.83	-3.30	13.53	36	PASS
			242/61	15.99	-3.30	12.69	36	PASS
6	2437	MCS0	full	16.73	-3.30	13.43	36	PASS
9	2452	MCS0	full	16.76	-3.30	13.46	36	PASS
			242/62	15.95	-3.30	12.65	36	PASS

802.11ax_HE40M MIMO										
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
				CH 0	CH 1					
3	2422	MCS0	full	16.97	16.88	19.95	0.44	20.39	36	PASS
			242/61	16.28	15.64	18.99	0.44	19.43	36	PASS
6	2437	MCS0	full	16.85	16.75	19.82	0.44	20.26	36	PASS
9	2452	MCS0	full	16.95	16.71	19.85	0.44	20.29	36	PASS
			242/62	15.94	15.47	18.73	0.44	19.17	36	PASS

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9 6DB & 99% BANDWIDTH MEASUREMENT

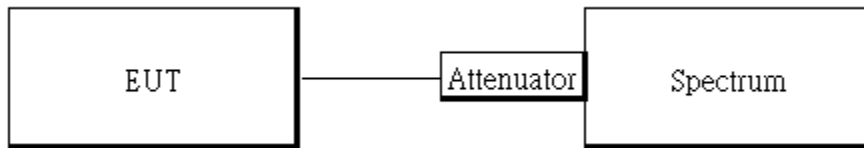
9.1 Standard Applicable

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

9.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021
DC Power Supply	Agilent	E3640A	KR93300208	08/19/2020	08/18/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

9.3 Test Set-up



9.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set the spectrum analyzer as
 RBW= 100kHz ,
 VBW = 3 X RBW,
 Span= 2 to 5 times of the OBW,
 Sweep=auto,
 Detector = Peak, and Max hold for -6dB Bandwidth test.
5. Set the spectrum analyzer as
 RBW= 1 % to 5% of 99% Bandwidth ,
 VBW ≥ 3 X RBW,
 Span= large enough to capture all products of the modulation process,

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Sweep=auto,

Detector = Peak, and Max hold for 99% Bandwidth test.

6. Turn on the 99% bandwidth function, max reading.
7. Repeat above procedures until all test default channel is completed

9.5 6dB Bandwidth

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8106.00	> 500	PASS
2437	8103.00	> 500	PASS
2462	7120.00	> 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16280.00	> 500	PASS
2437	16270.00	> 500	PASS
2462	16310.00	> 500	PASS

802.11_n_HT20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17290.00	> 500	PASS
2437	16930.00	> 500	PASS
2462	17550.00	> 500	PASS

802.11_n_HT20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17310.00	> 500	PASS
2437	17170.00	> 500	PASS
2462	17150.00	> 500	PASS

802.11_ax_HE20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	18710.00	> 500	PASS
2437	18520.00	> 500	PASS
2462	18810.00	> 500	PASS

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802.11_ax_HE20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	18450.00	> 500	PASS
2437	18490.00	> 500	PASS
2462	18700.00	> 500	PASS

802.11_n_HT40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35590.00	> 500	PASS
2437	35450.00	> 500	PASS
2452	35680.00	> 500	PASS

802.11_n_HT40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35890.00	> 500	PASS
2437	35550.00	> 500	PASS
2452	35940.00	> 500	PASS

802.11_ax_HE40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	37600.00	> 500	PASS
2437	37580.00	> 500	PASS
2452	37670.00	> 500	PASS

802.11_ax_HE40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35980.00	> 500	PASS
2437	36970.00	> 500	PASS
2452	36460.00	> 500	PASS

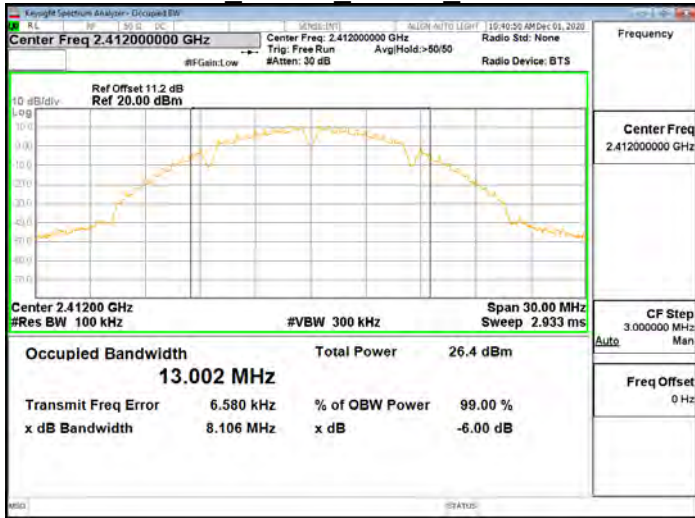
*Refer to next page for plots

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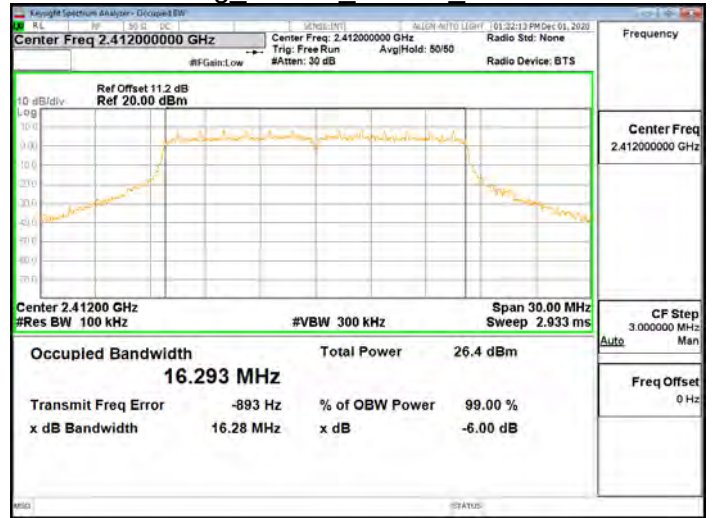
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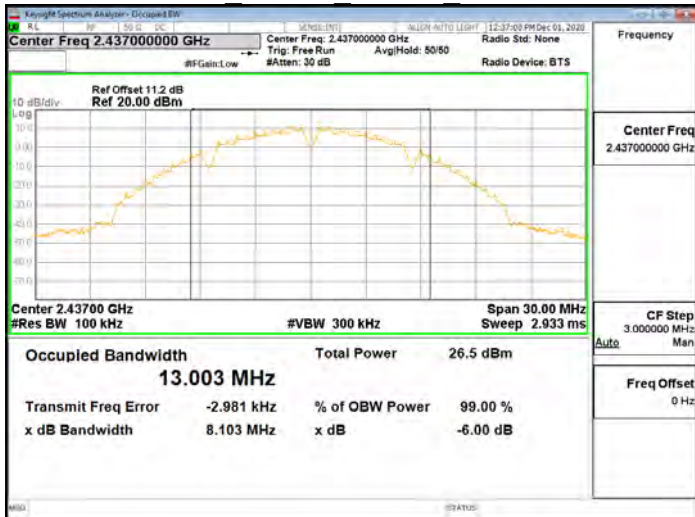
802.11b 20MHz Chain0 2412MHz



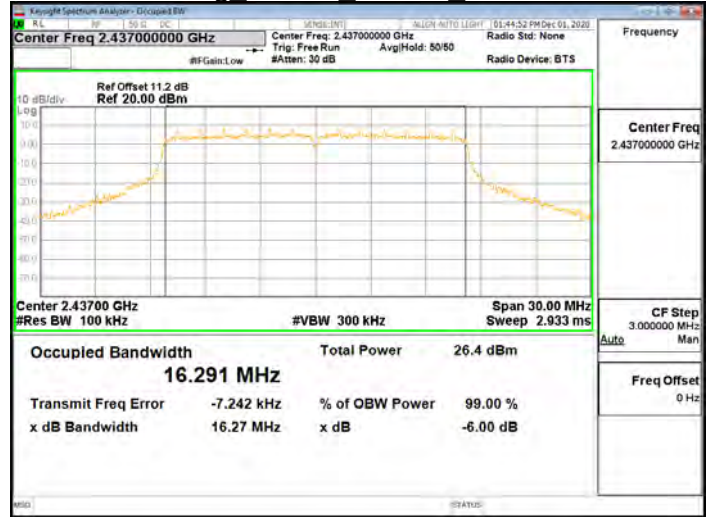
802.11g 20MHz Chain0 2412MHz



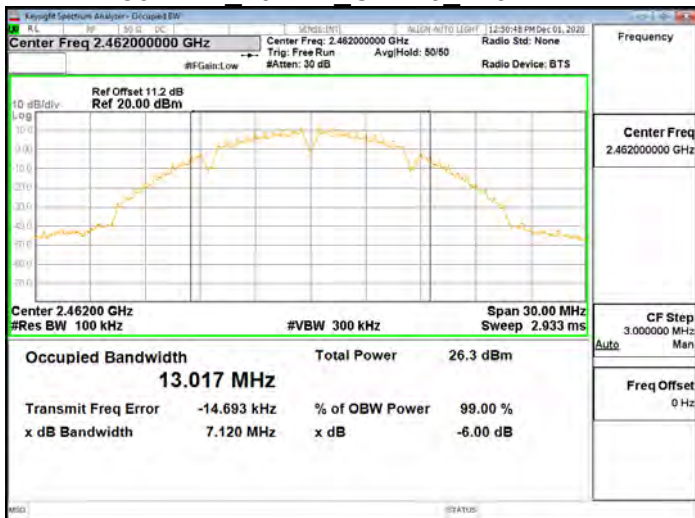
802.11b 20MHz Chain0 2437MHz



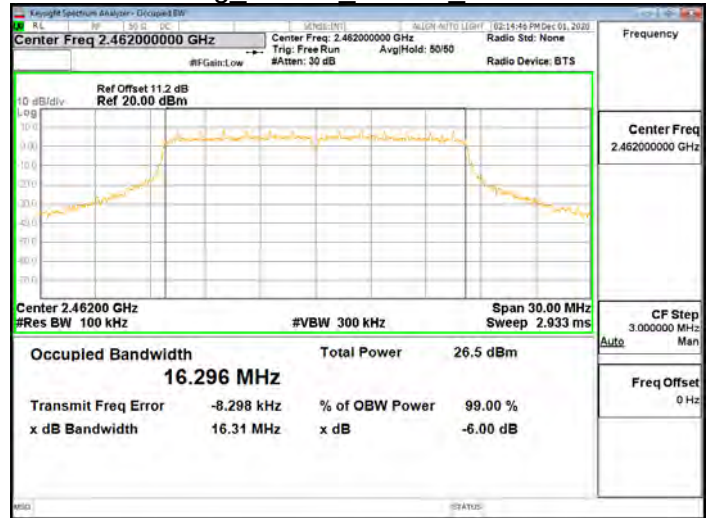
802.11g 20MHz Chain0 2437MHz



802.11b 20MHz Chain0 2462MHz



802.11g 20MHz Chain0 2462MHz

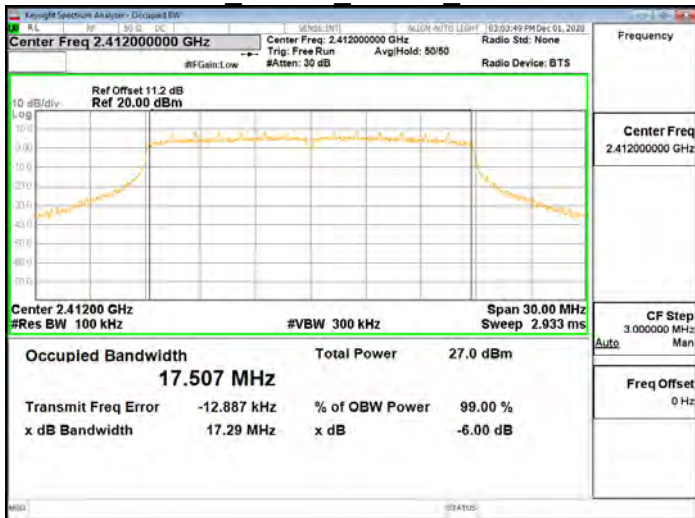


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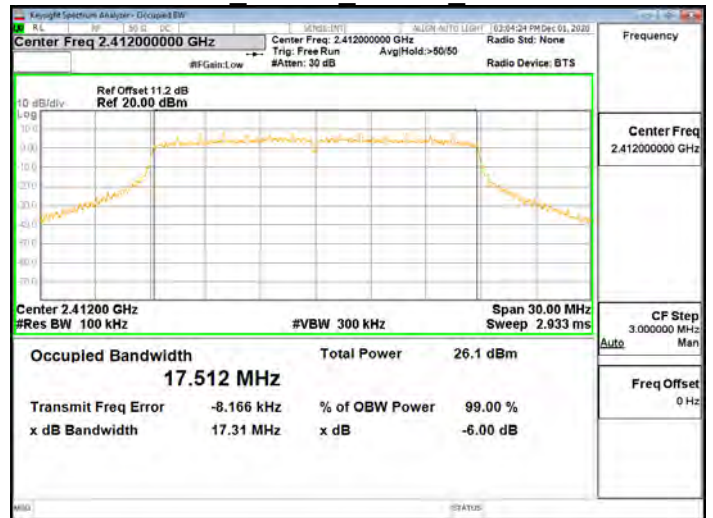
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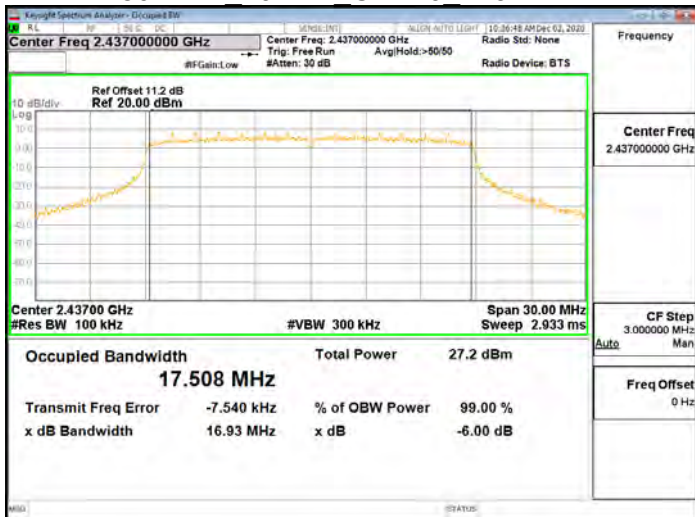
802.11n 20MHz Chain0 2412MHz



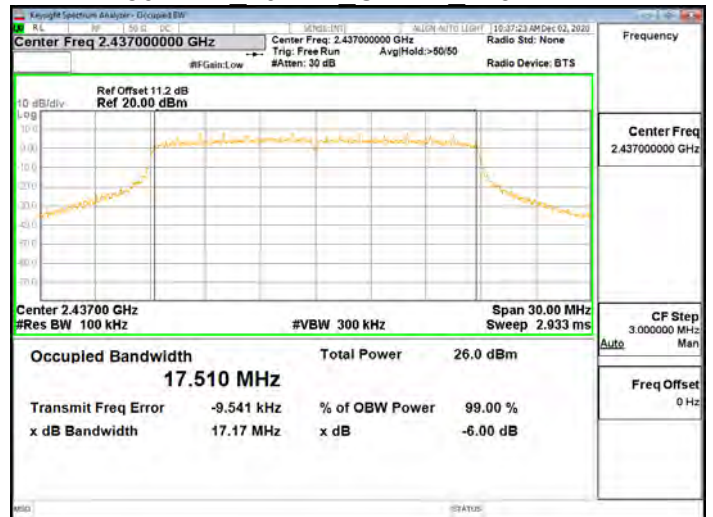
802.11n 20MHz Chain1 2412MHz



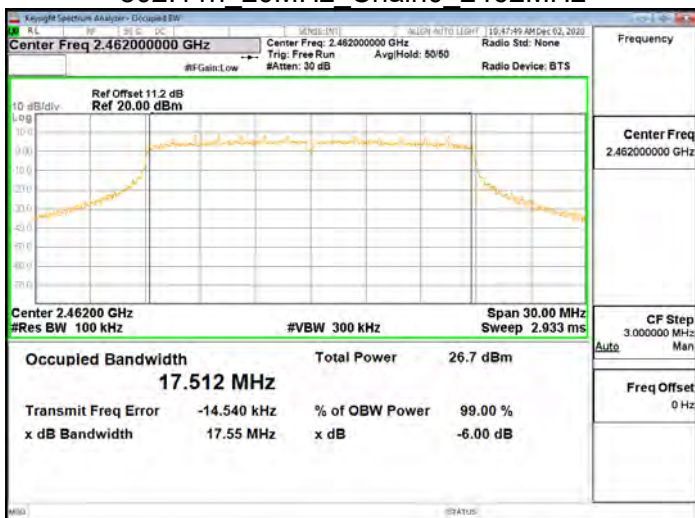
802.11n 20MHz Chain0 2437MHz



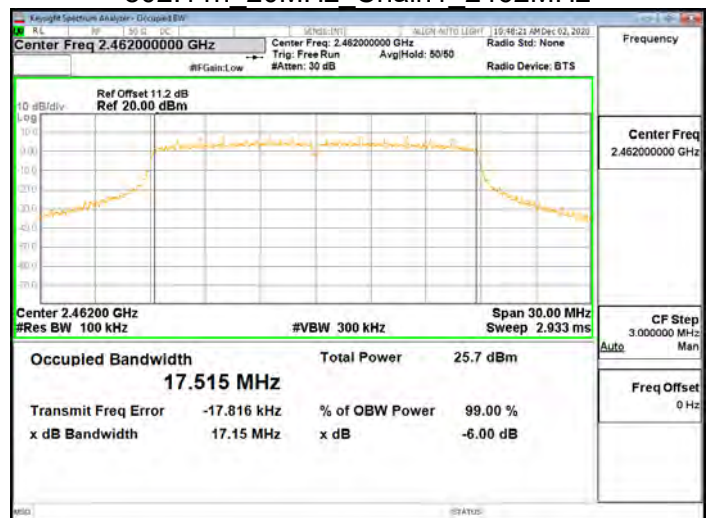
802.11n 20MHz Chain1 2437MHz



802.11n 20MHz Chain0 2462MHz



802.11n 20MHz Chain1 2462MHz

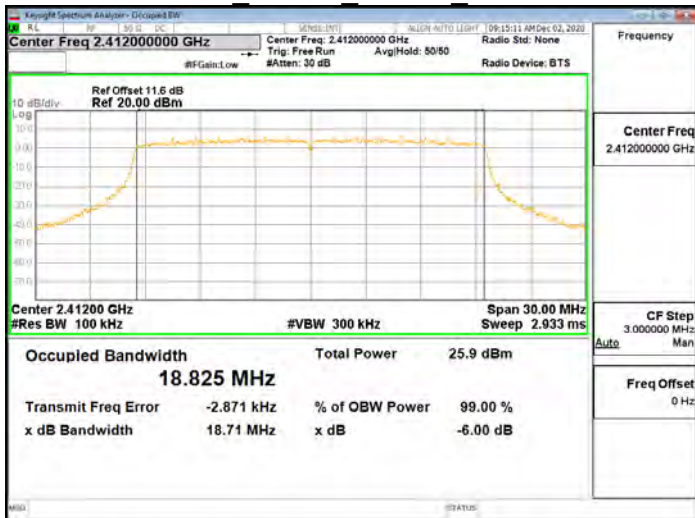


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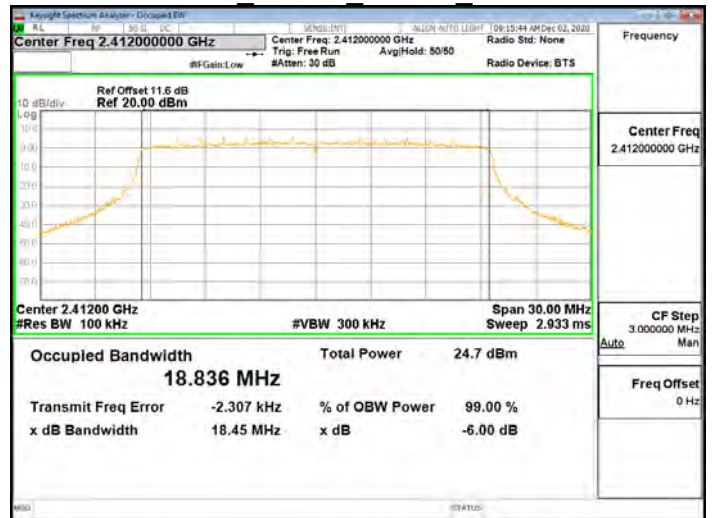
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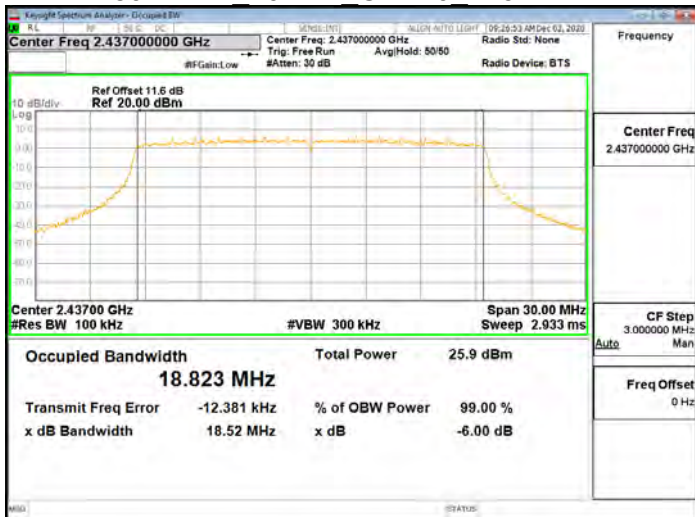
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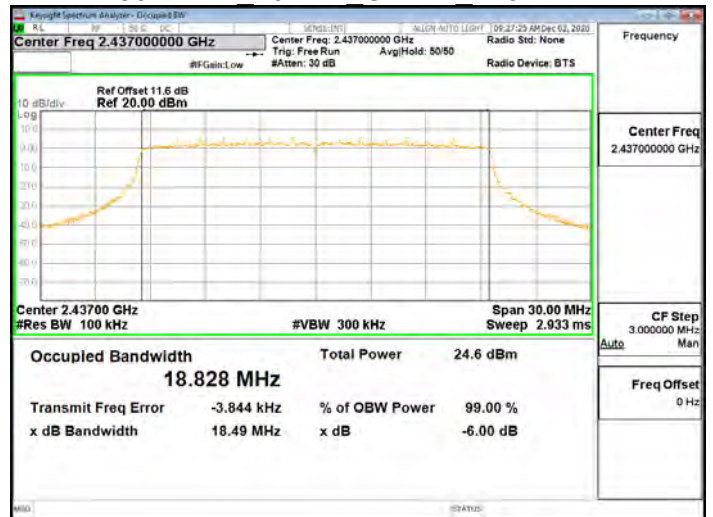
802.11ax 20MHz Chain1 2412MHz



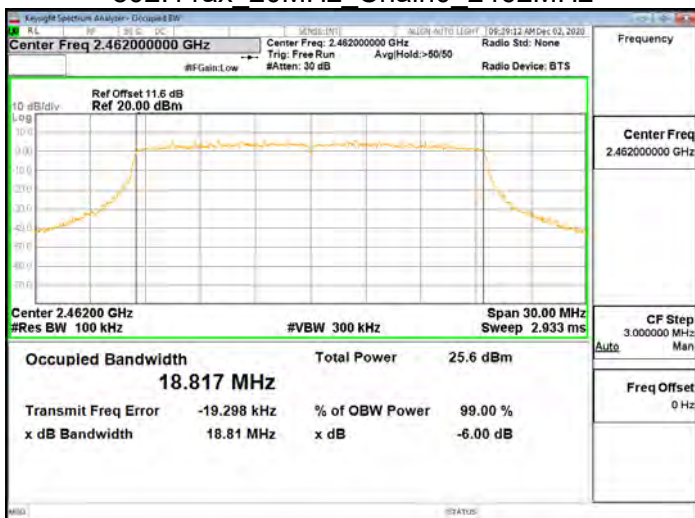
802.11ax 20MHz Chain0 2437MHz



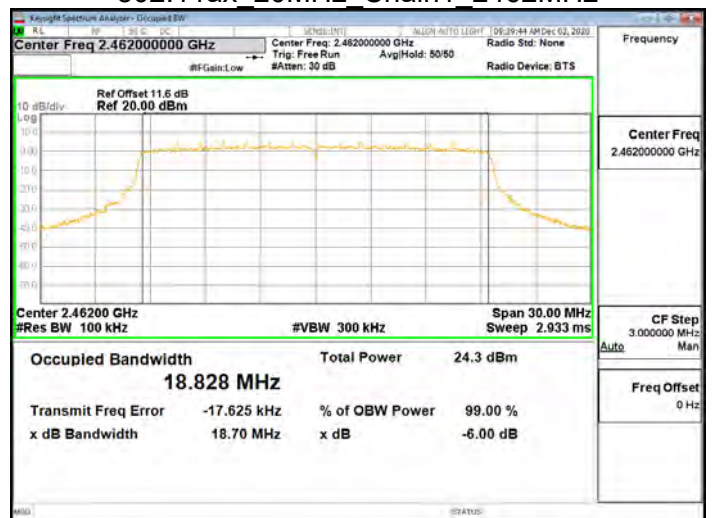
802.11ax 20MHz Chain1 2437MHz



802.11ax 20MHz Chain0 2462MHz



802.11ax 20MHz Chain1 2462MHz

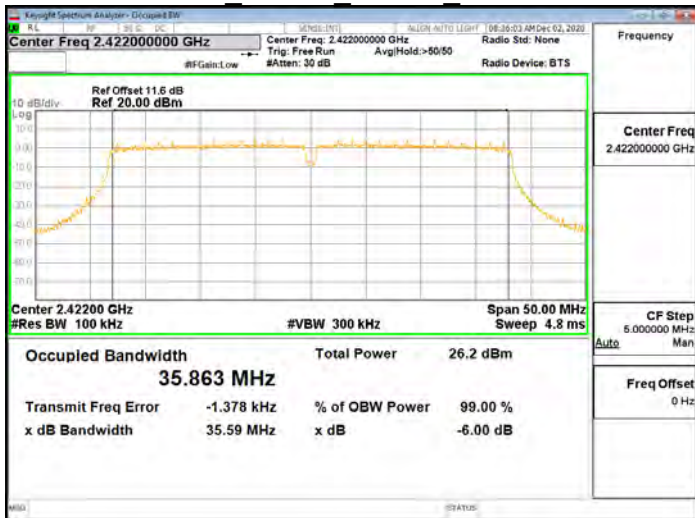


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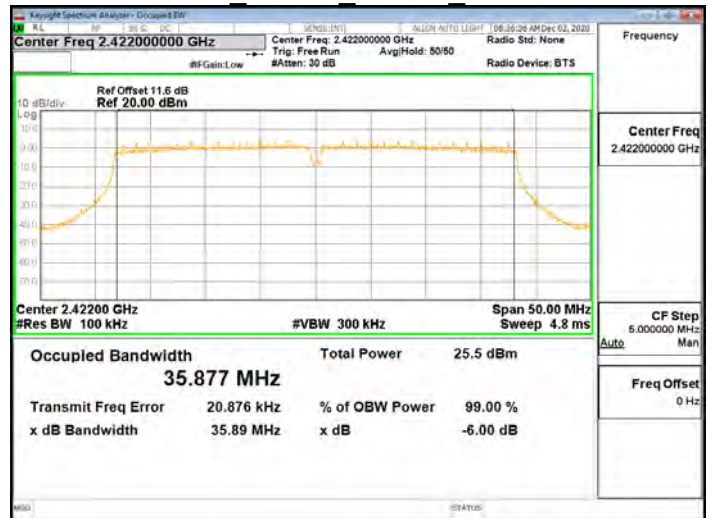
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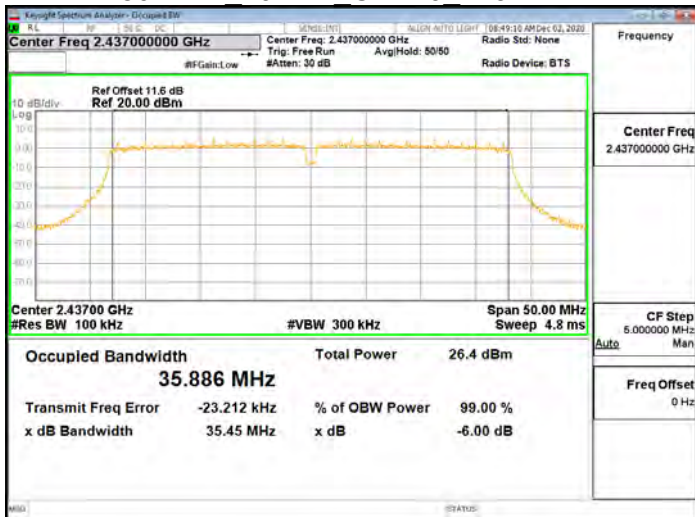
802.11n 40MHz Chain0 2422MHz



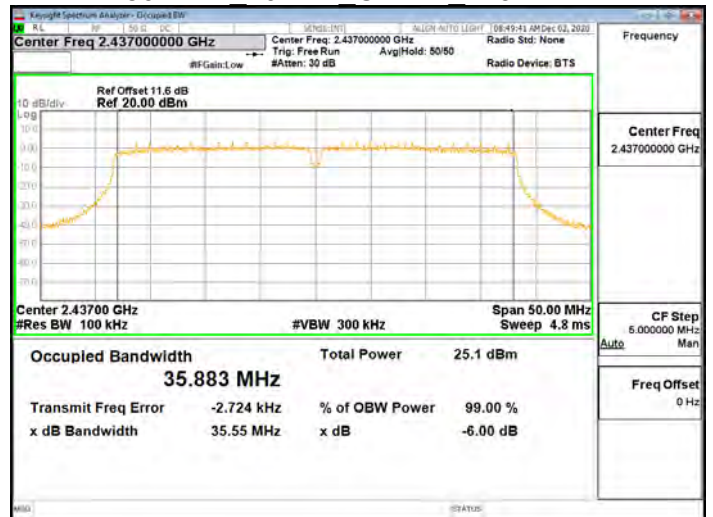
802.11n 40MHz Chain1 2422MHz



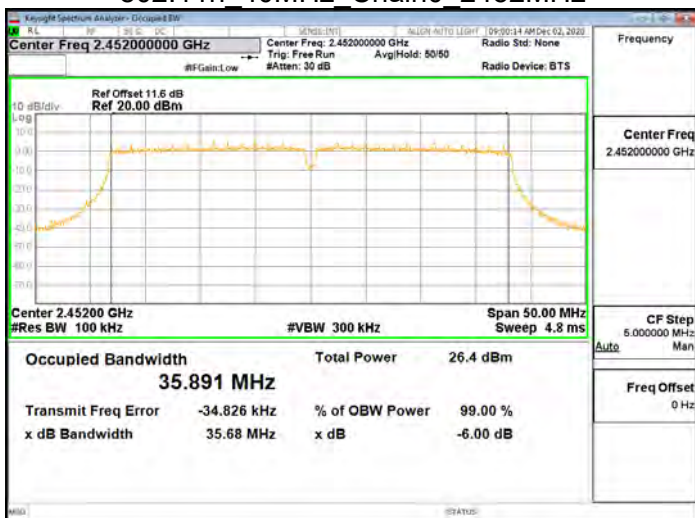
802.11n 40MHz Chain0 2437MHz



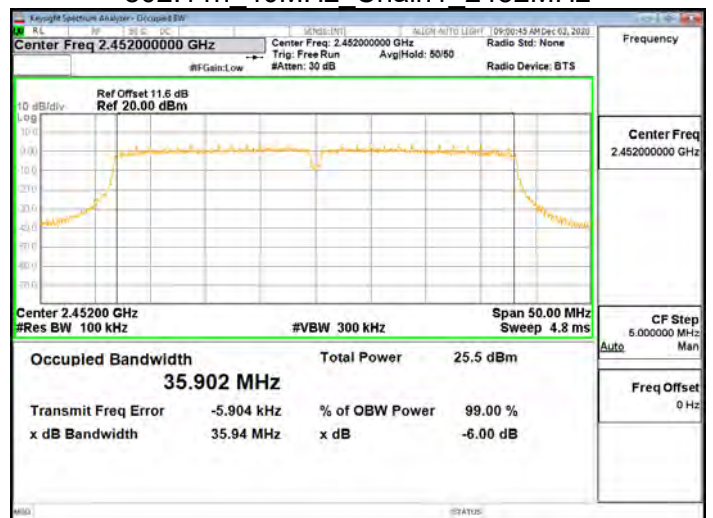
802.11n 40MHz Chain1 2437MHz



802.11n 40MHz Chain0 2452MHz



802.11n 40MHz Chain1 2452MHz

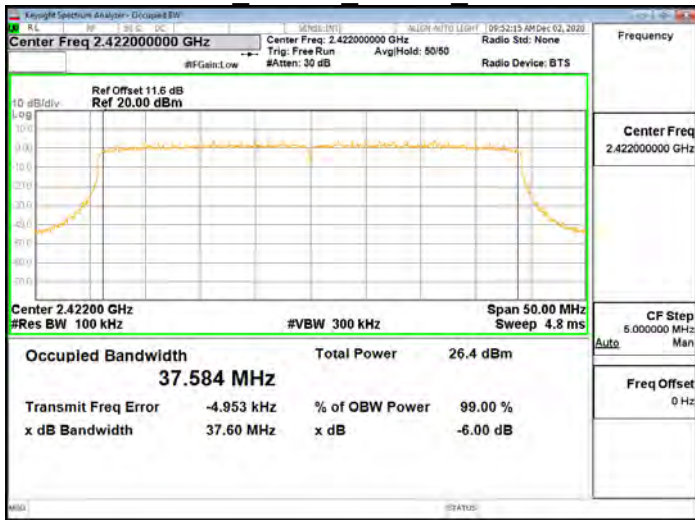


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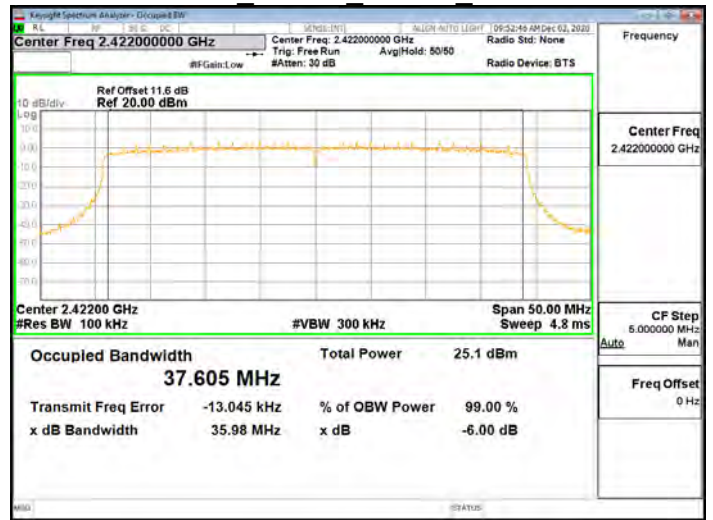
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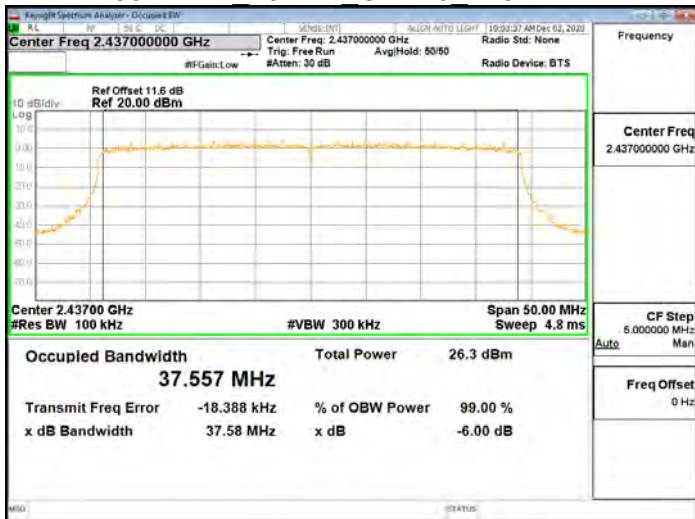
802.11ax 40MHz Chain0 2422MHz



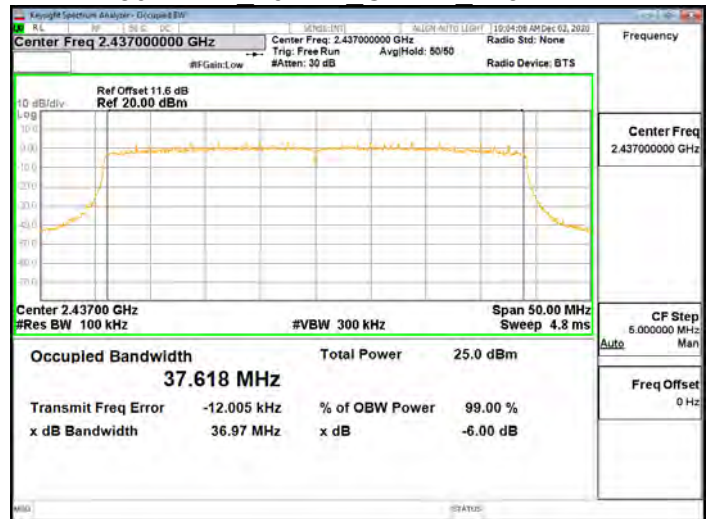
802.11ax 40MHz Chain1 2422MHz



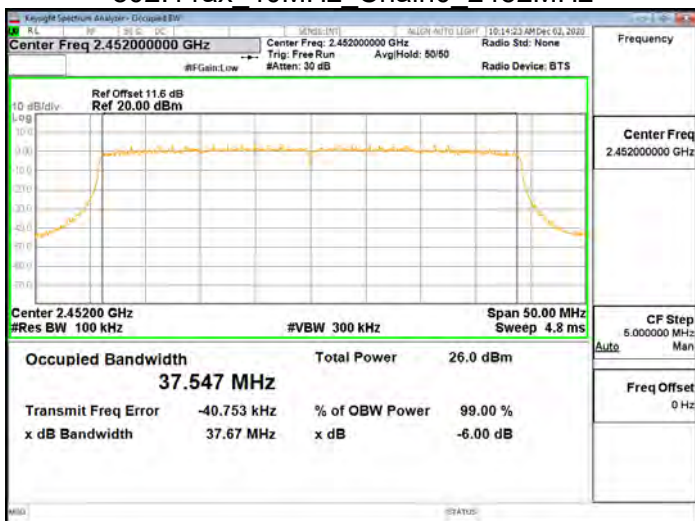
802.11ax 40MHz Chain0 2437MHz



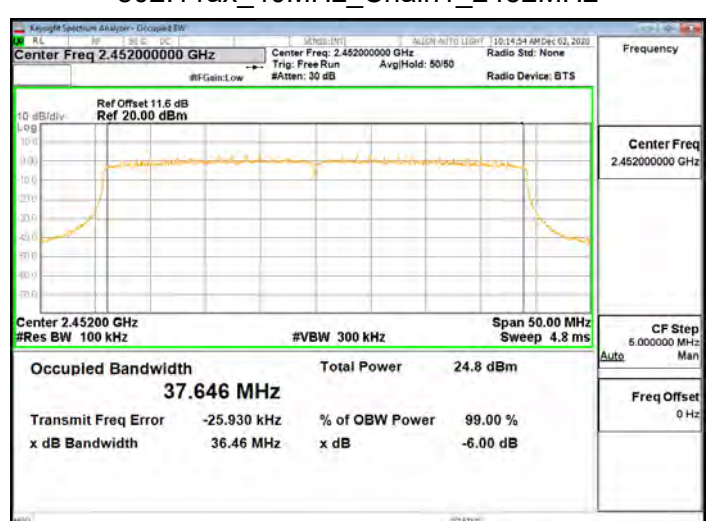
802.11ax 40MHz Chain1 2437MHz



802.11ax 40MHz Chain0 2452MHz



802.11ax_40MHz_Chain1_2452MHz



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9.6 99% Bandwidth

802.11b Ch0		802.11g Ch0	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	13.029	2412	16.348
2437	13.029	2437	16.35
2462	13.05	2462	16.351

802.11n_HT20M Ch0		802.11n_HT20M Ch1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	17.508	2412	17.529
2437	17.511	2437	17.524
2462	17.519	2462	17.525

802.11ax_HE20M Ch0		802.11ax_HE20M Ch1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	18.865	2412	18.885
2437	18.861	2437	18.879
2462	18.863	2462	18.879

802.11n_HT40M Ch0		802.11n_HT40M Ch1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2422	36.015	2422	35.963
2437	35.975	2437	35.984
2452	35.997	2452	35.982

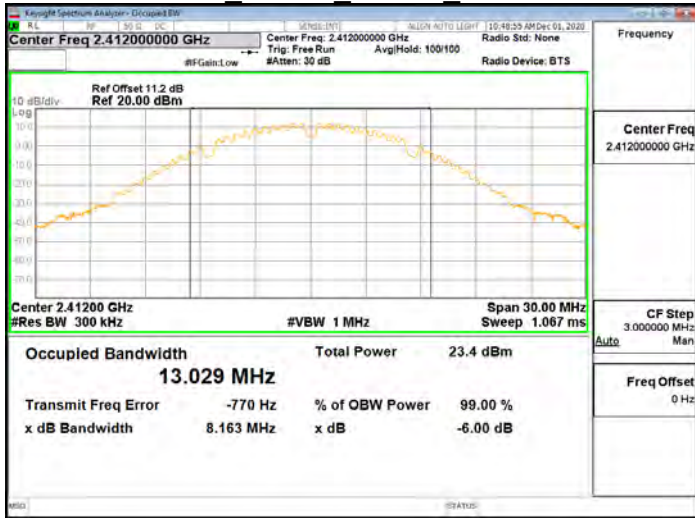
802.11ax_HE40M Ch0		802.11ax_HE40M Ch1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2422	37.64	2422	37.607
2437	37.621	2437	37.593
2452	37.627	2452	37.641

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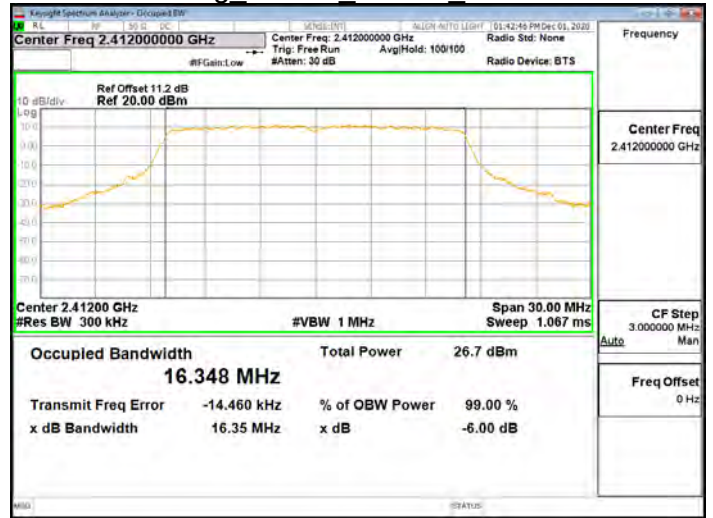
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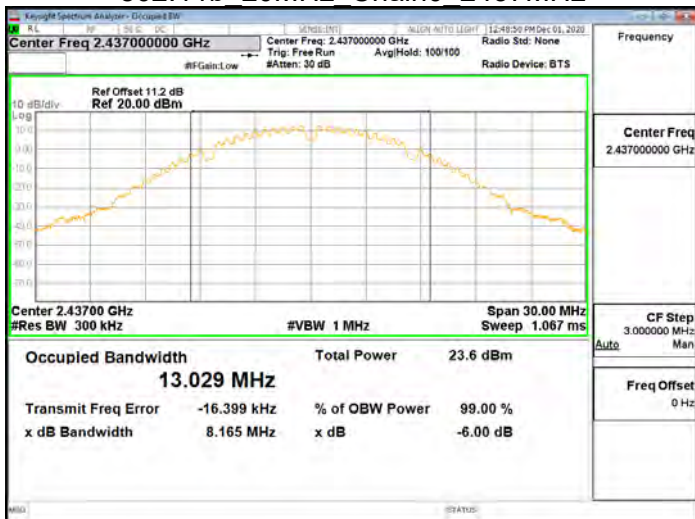
802.11b 20MHz Chain0 2412MHz



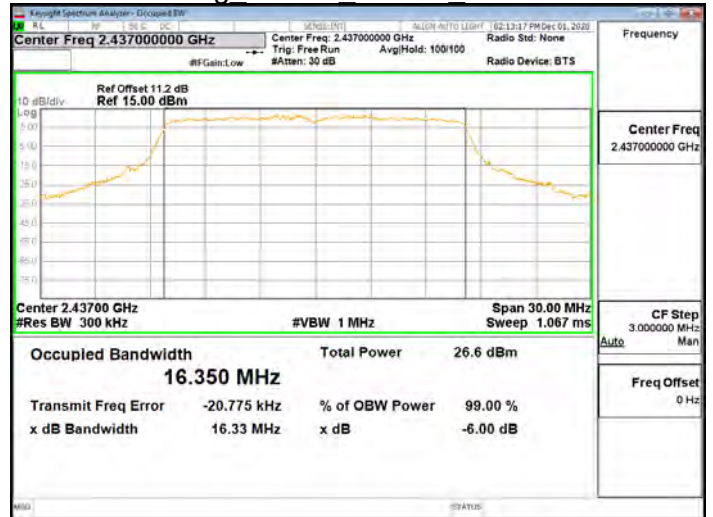
802.11g 20MHz Chain0 2412MHz



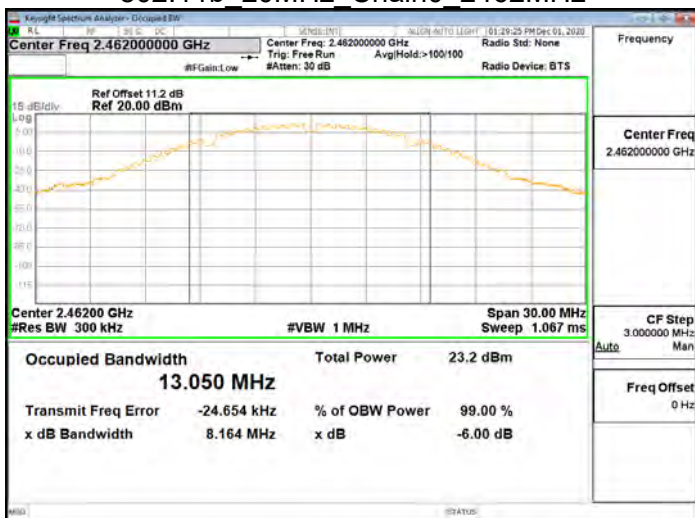
802.11b 20MHz Chain0 2437MHz



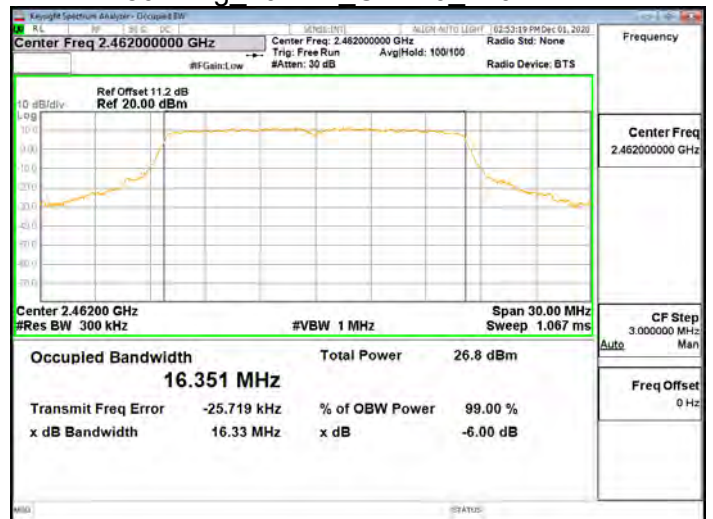
802.11g 20MHz Chain0 2437MHz



802.11b 20MHz Chain0 2462MHz



802.11g 20MHz Chain0 2462MHz

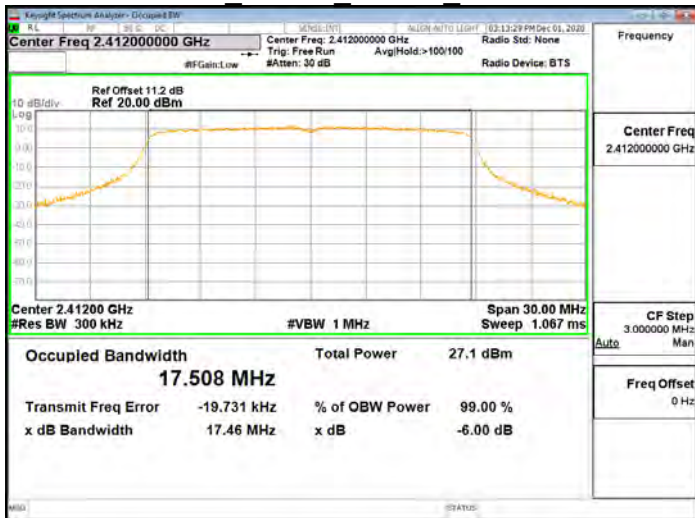


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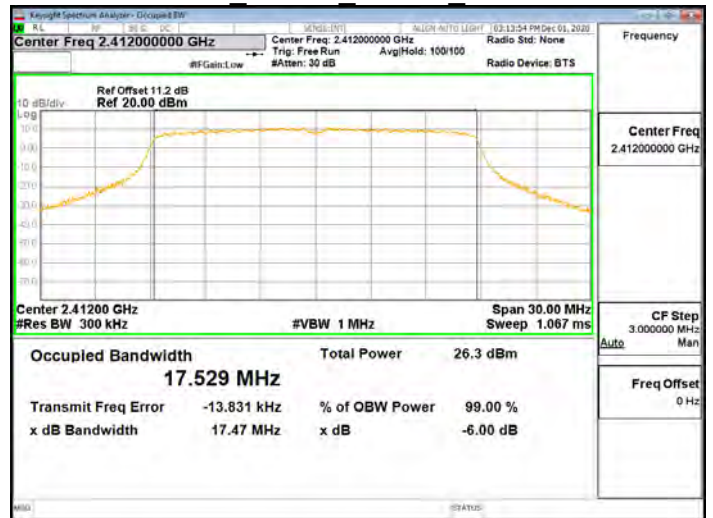
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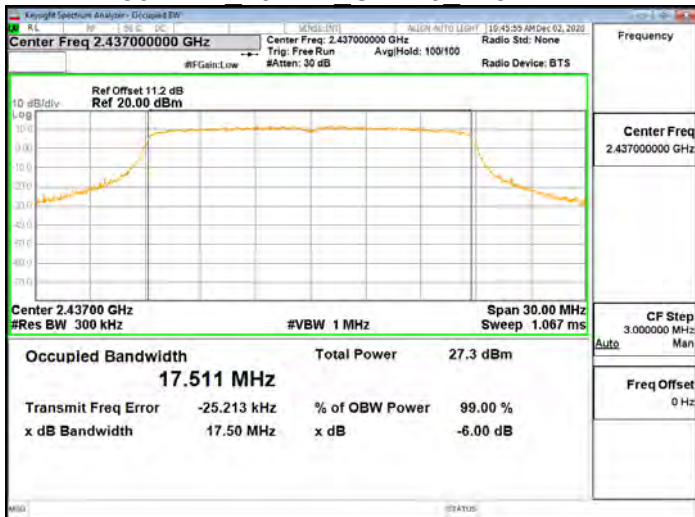
802.11n 20MHz Chain0 2412MHz



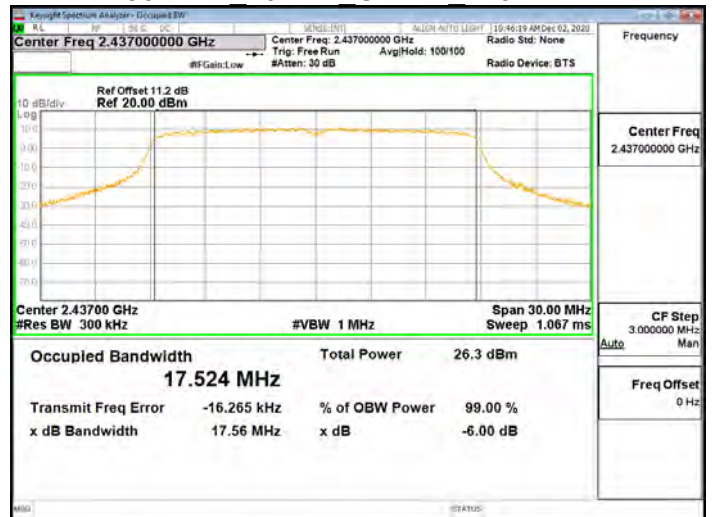
802.11n 20MHz Chain1 2412MHz



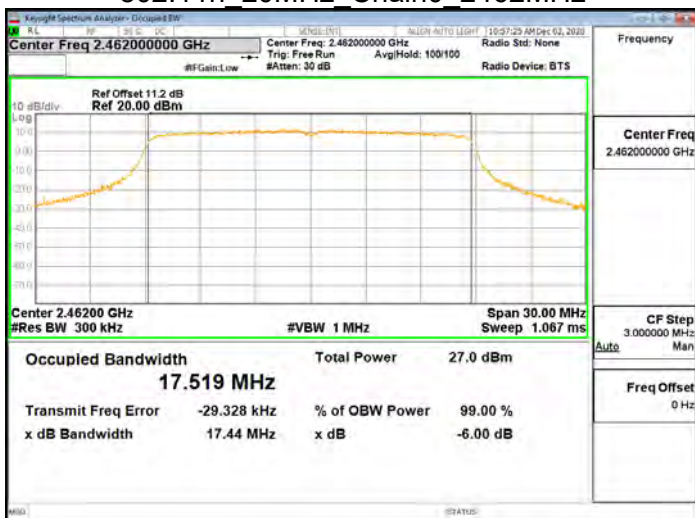
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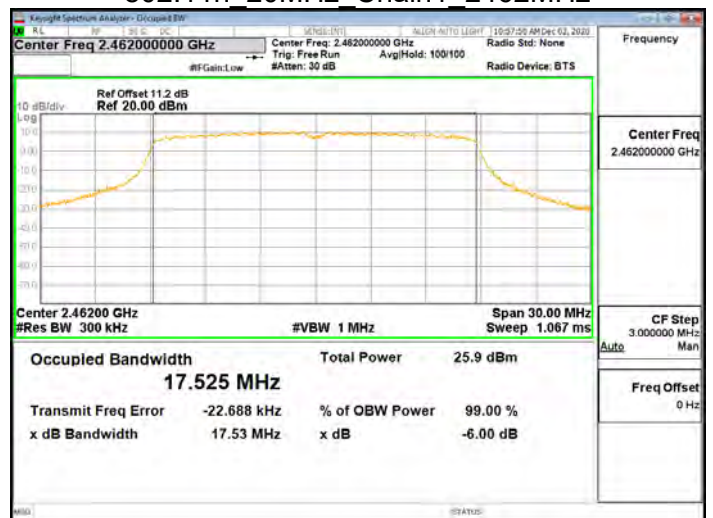
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802.11n 20MHz Chain0 2462MHz



802.11n 20MHz Chain1 2462MHz

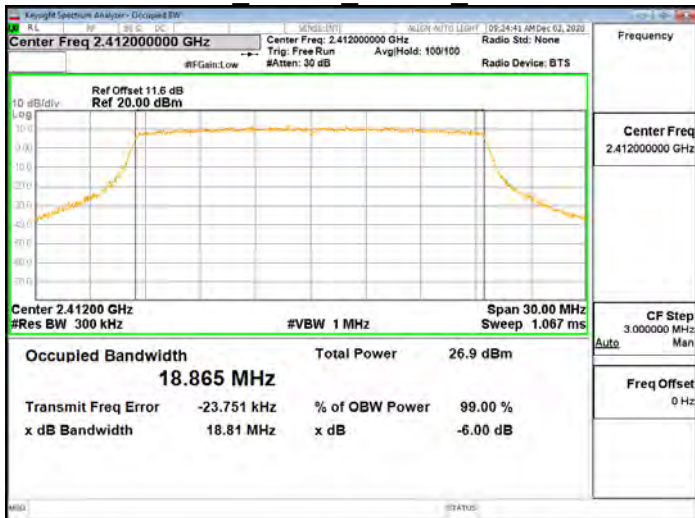


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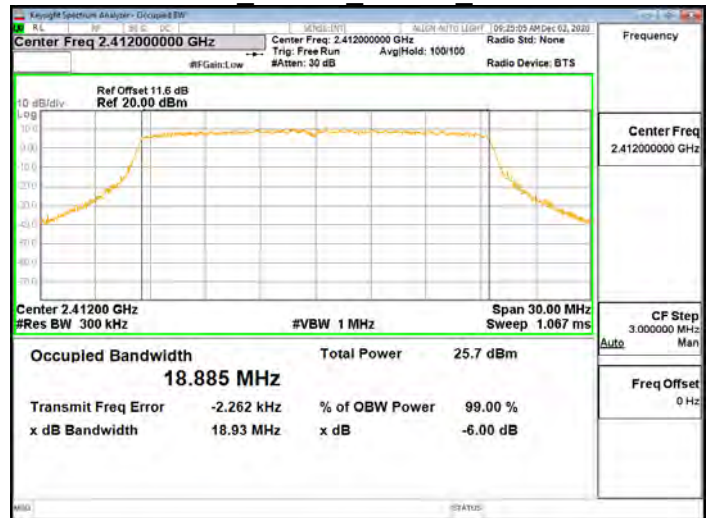
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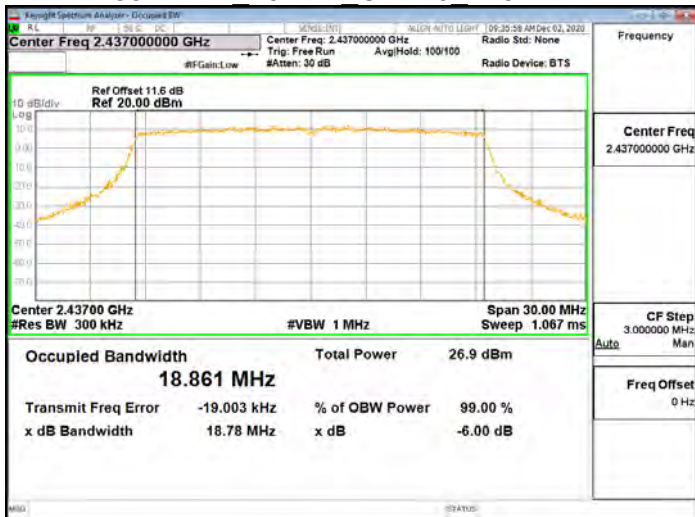
802.11ax 20MHz Chain0 2412MHz



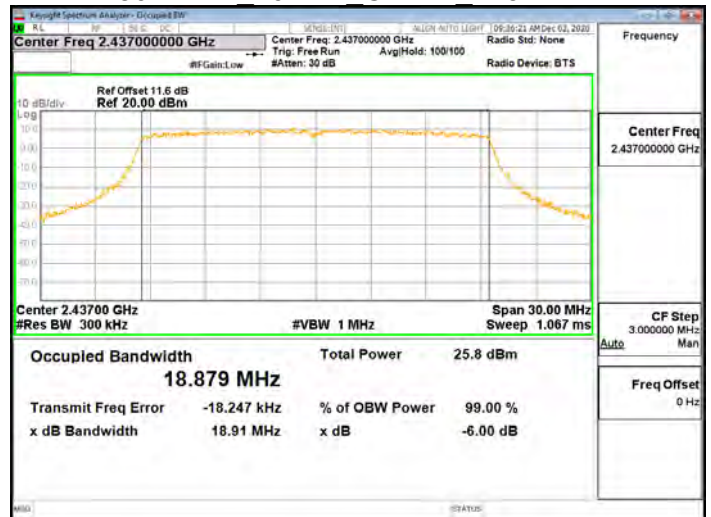
802.11ax 20MHz Chain1 2412MHz



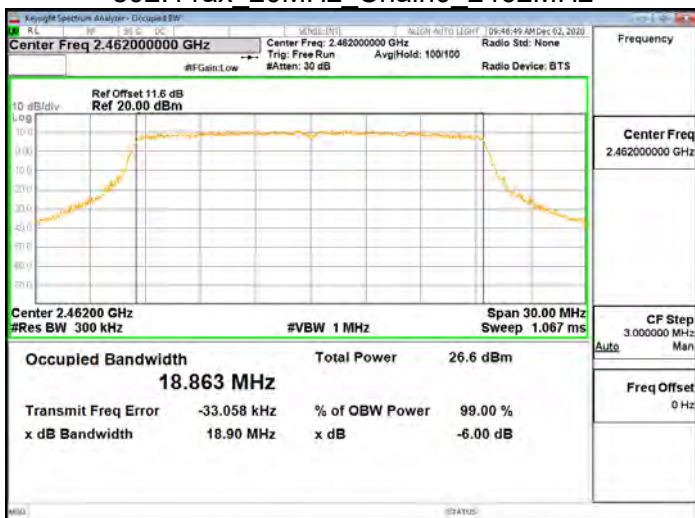
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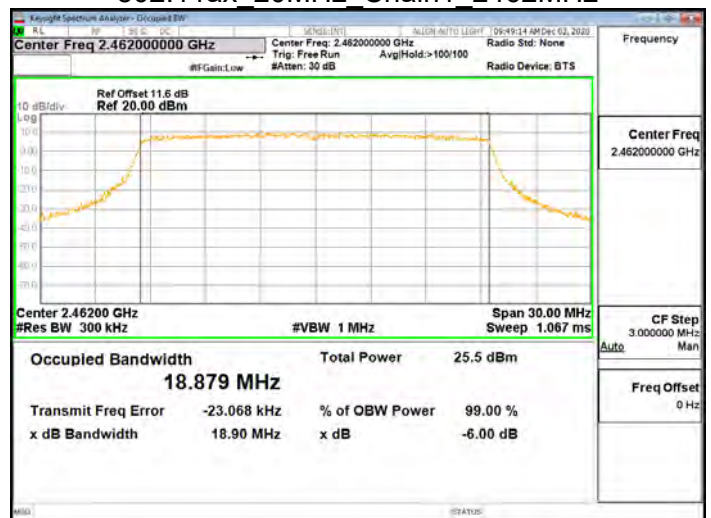
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802.11ax 20MHz Chain0 2462MHz



802.11ax 20MHz Chain1 2462MHz

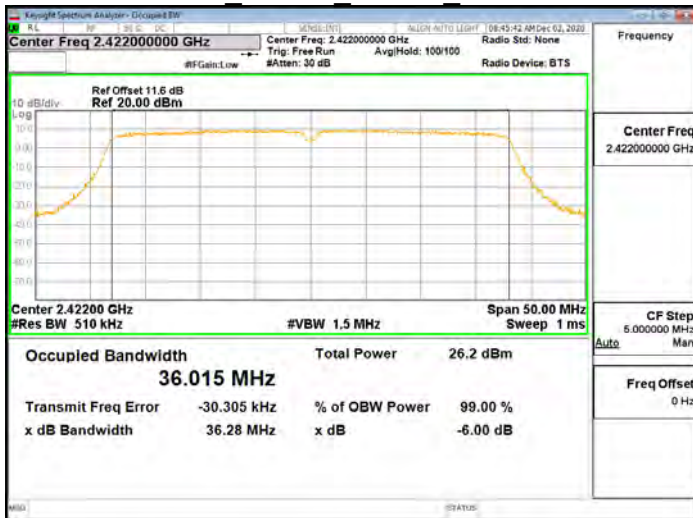


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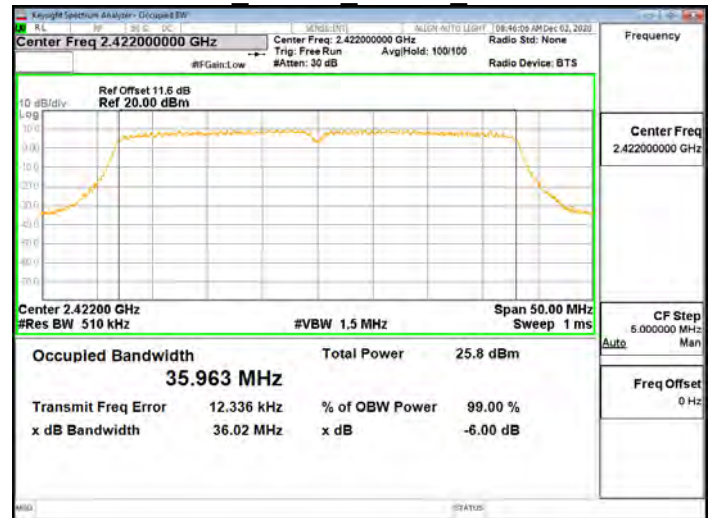
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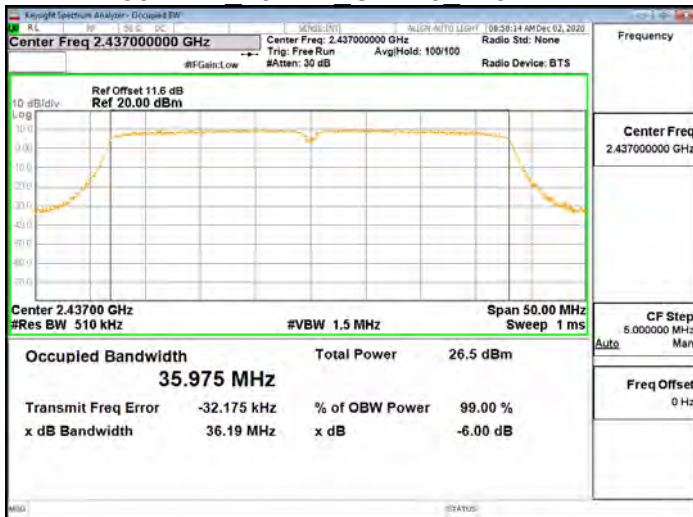
802.11n 40MHz Chain0 2422MHz



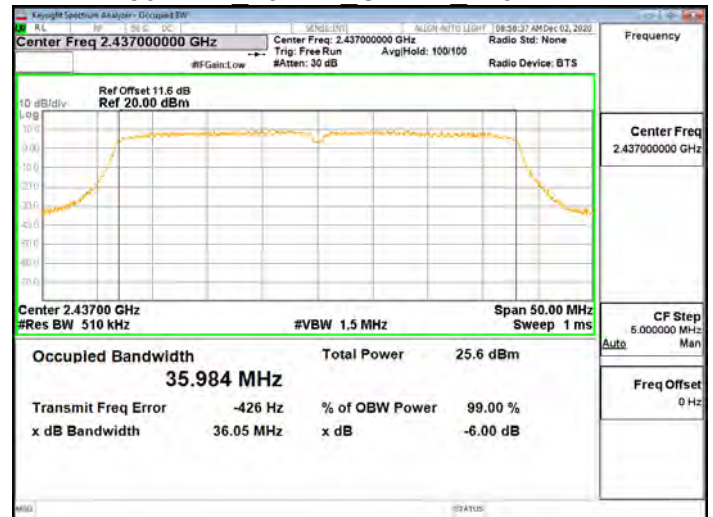
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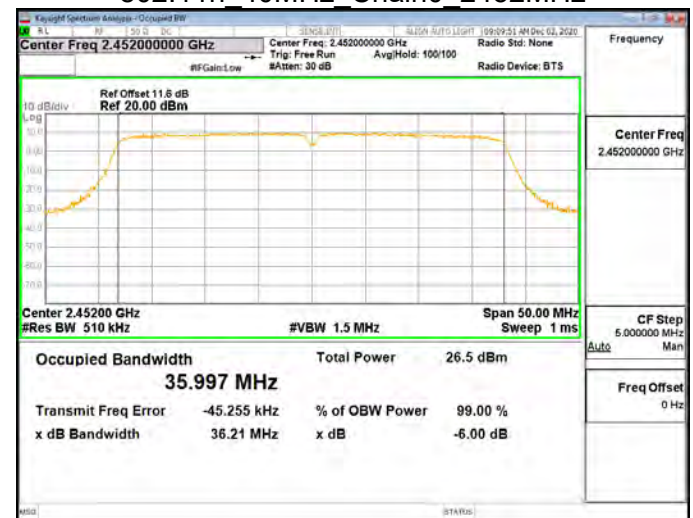
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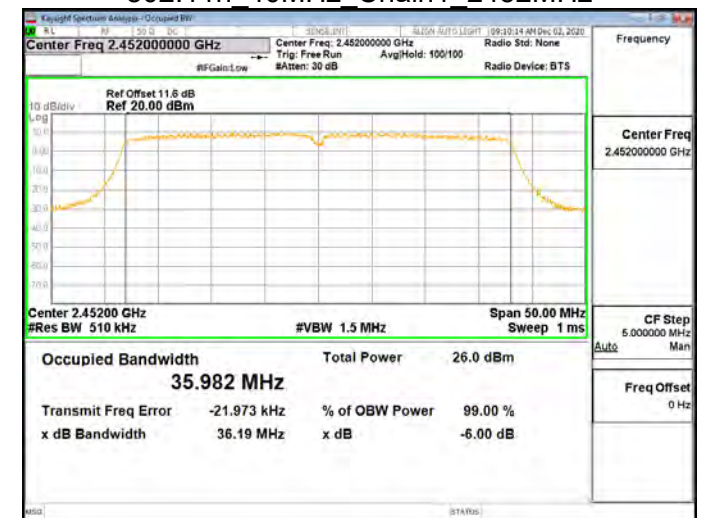
802.11n 40MHz Chain1 2437MHz



802.11n 40MHz Chain0 2452MHz



802.11n 40MHz Chain1 2452MHz

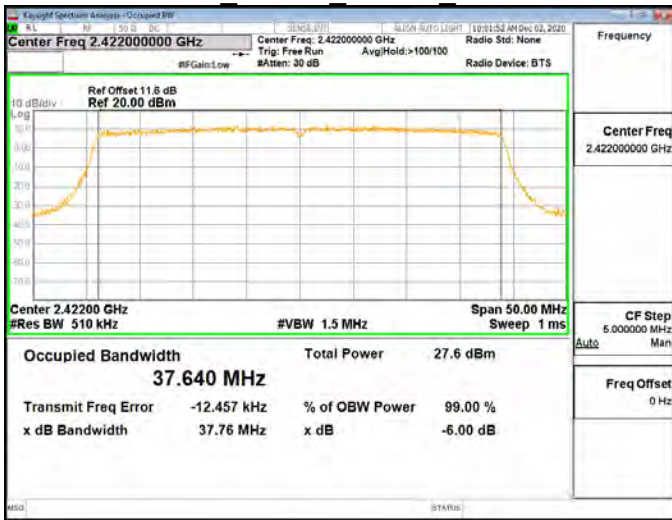


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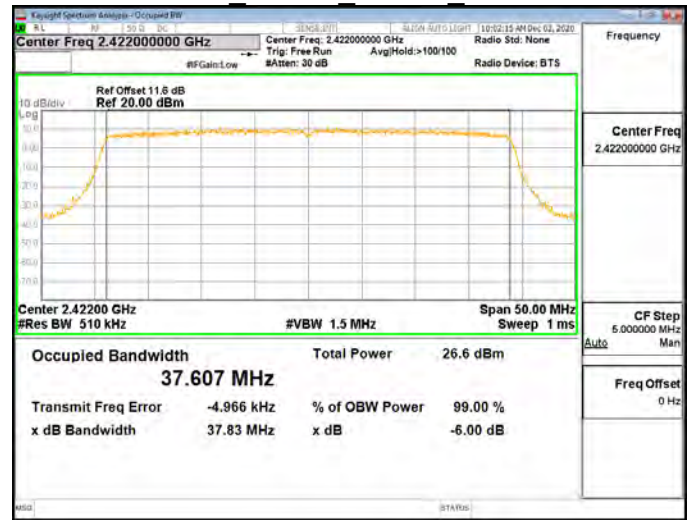
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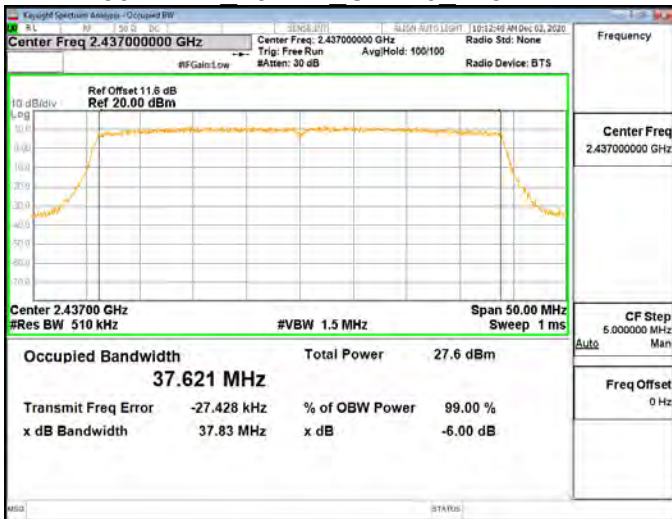
802.11ax 40MHz Chain0 2422MHz



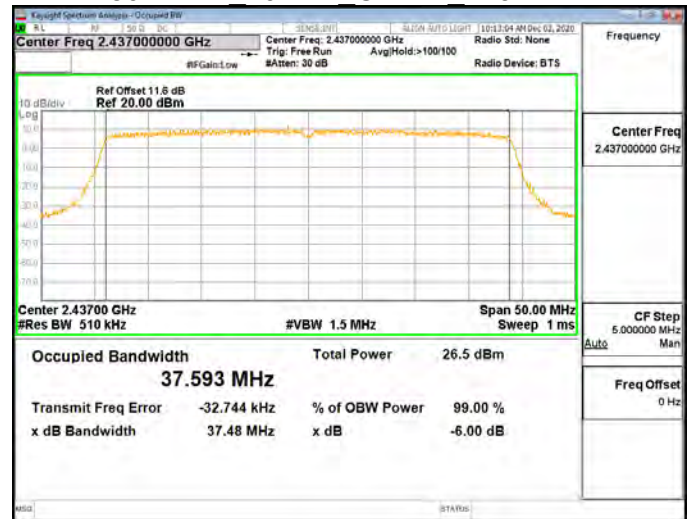
802.11ax 40MHz Chain1 2422MHz



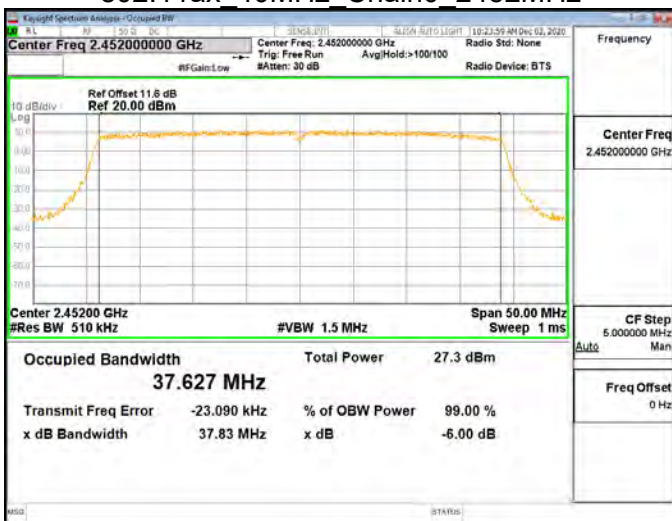
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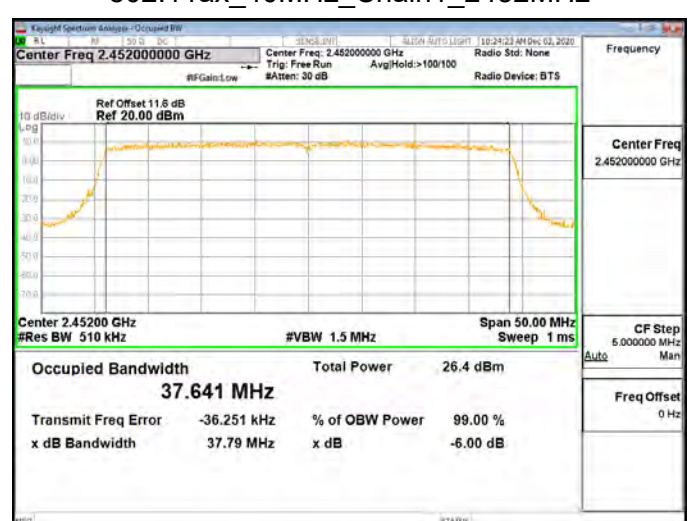
802.11ax 40MHz Chain1 2437MHz



802.11ax 40MHz Chain0 2452MHz



802.11ax_40MHz_Chain1_2452MHz



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

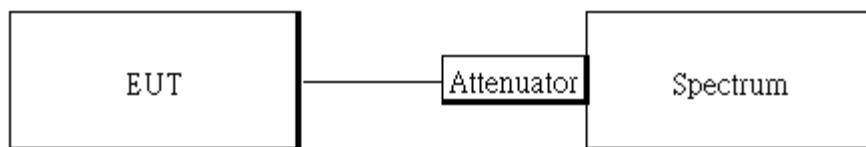
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

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

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021
DC Power Supply	Agilent	E3640A	KR93300208	08/19/2020	08/18/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

10.3 Test SET-UP



10.4 Measurement Procedure

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Reference Level of Emission 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 .
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.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker of reference level measurement – 20dBm
8. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

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Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.
7. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note:

For test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

10.5 Measurement Result

Reference Level of Limit 802.11b mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	10.70	-9.30
2437	10.79	-9.21
2462	11.30	-8.70

Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	8.68	-11.32
2437	8.70	-11.30
2462	8.86	-11.14

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Reference Level of Limit 802.11n20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	12.10	-7.90
2437	11.94	-8.06
2462	11.85	-8.15

Reference Level of Limit 802.11ax20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	10.30	-9.70
2437	10.03	-9.97
2462	9.83	-10.17

Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	7.93	-12.07
2437	8.29	-11.71
2452	8.25	-11.75

Reference Level of Limit 802.11ax40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	7.71	-12.29
2437	7.43	-12.57
2452	7.35	-12.65

Note

Cable Loss: 11.20 dB

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802.11b_20MHz_Chain0_2412MHz



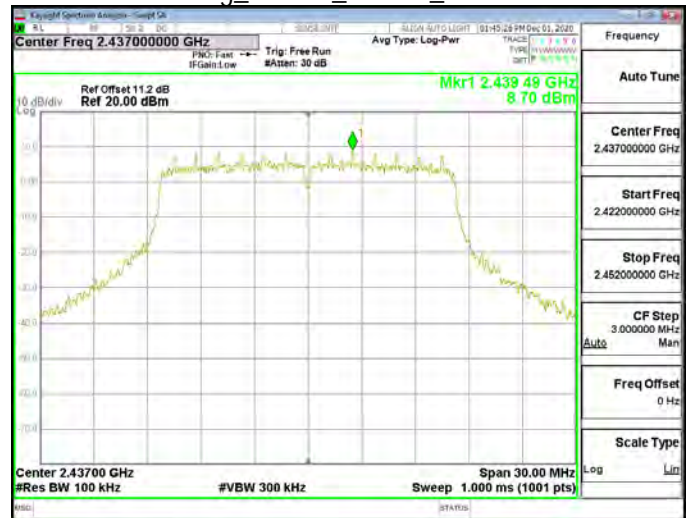
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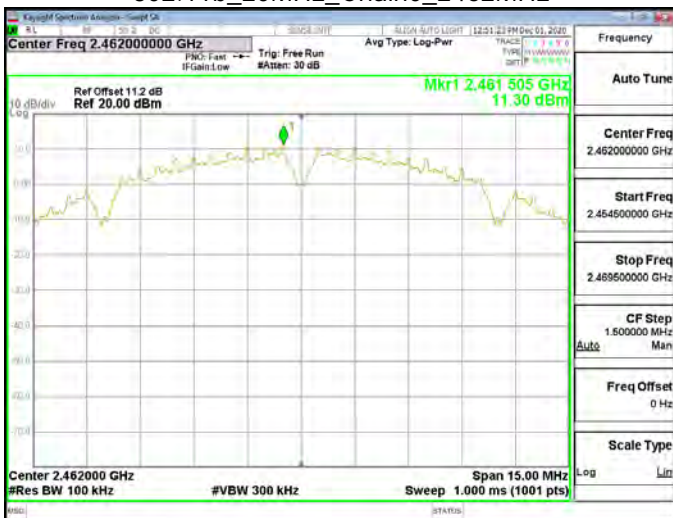
802.11b_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz



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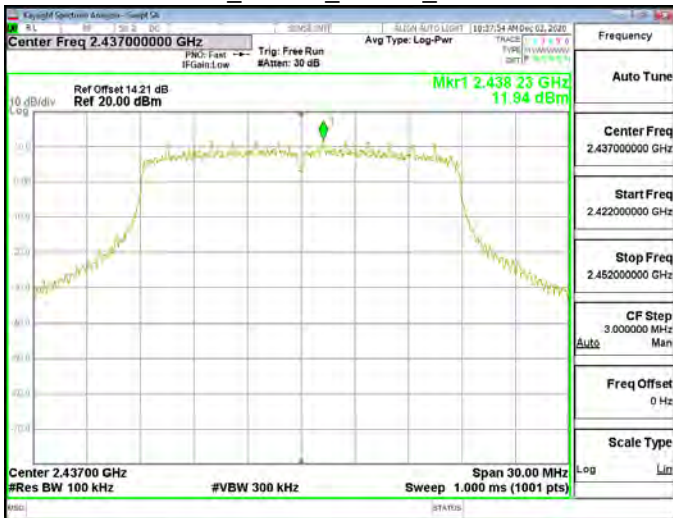
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802.11ax_20MHz_Chain0_2412MHz



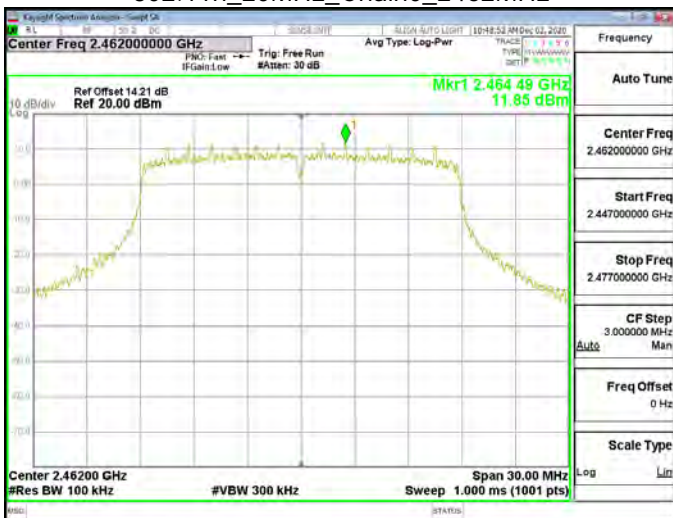
802.11n_20MHz_Chain0_2437MHz



802.11ax_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11ax_20MHz_Chain0_2462MHz



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802.11n_40MHz_Chain0_2422MHz



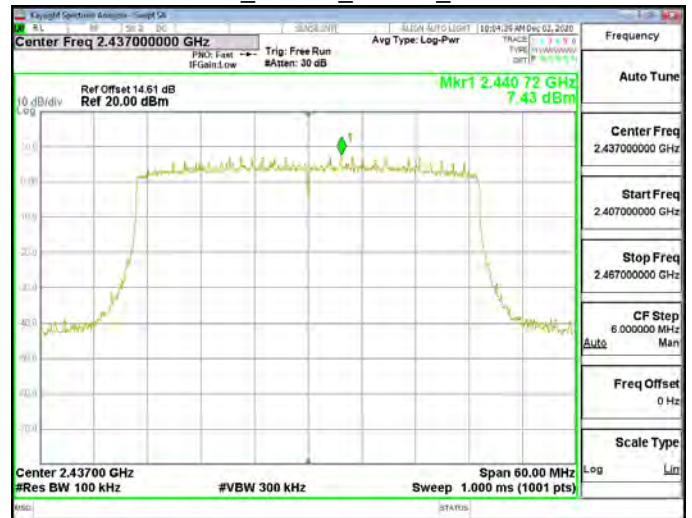
802.11ax_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain0_2437MHz



802.11ax_40MHz_Chain0_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11ax_40MHz_Chain0_2452MHz

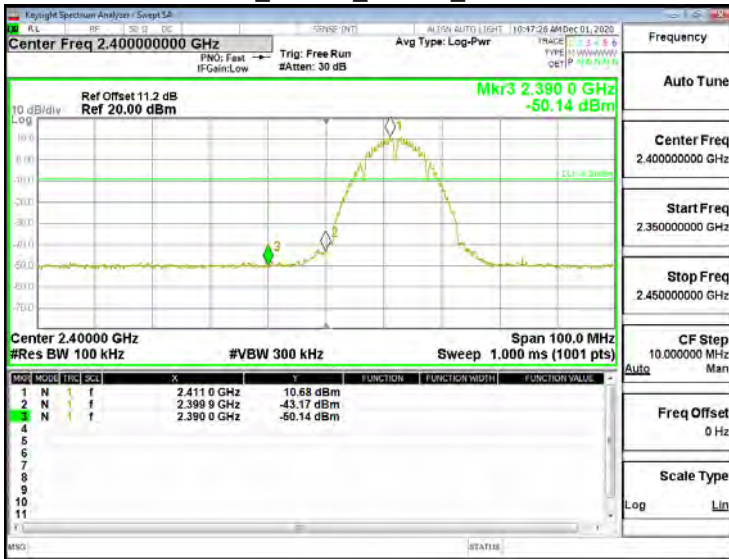


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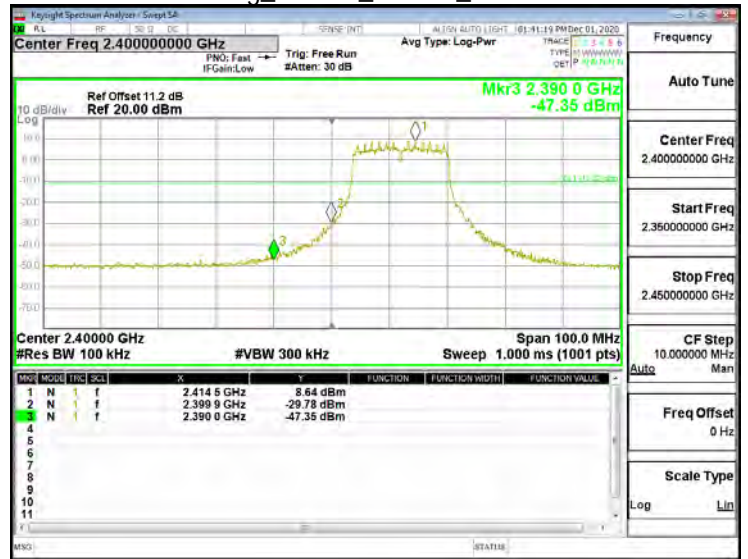
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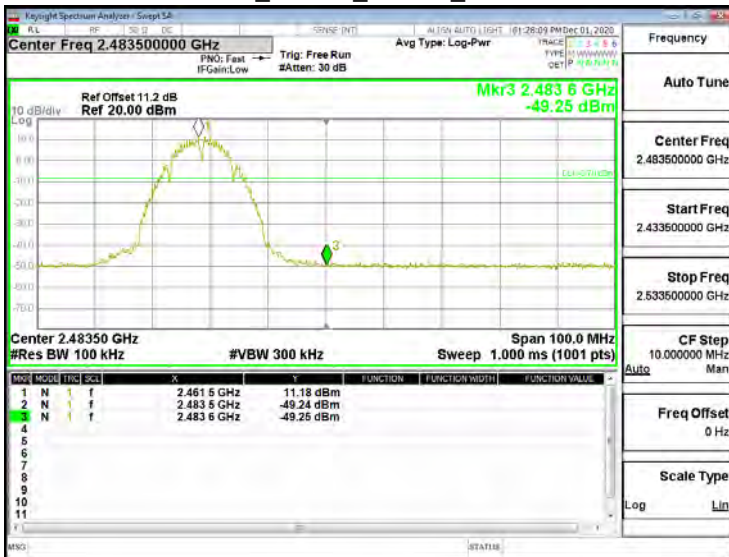
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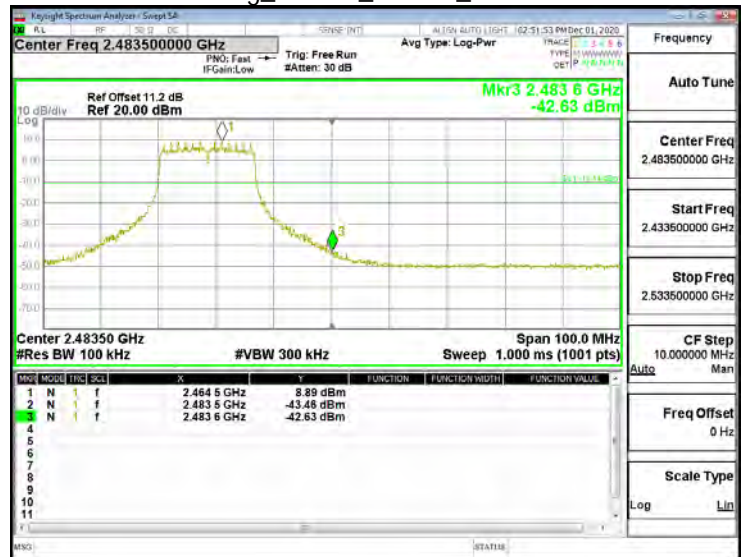
802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

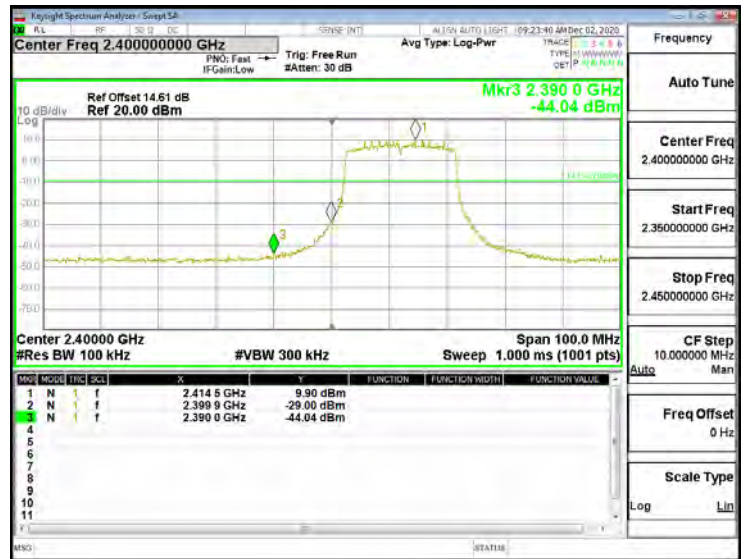
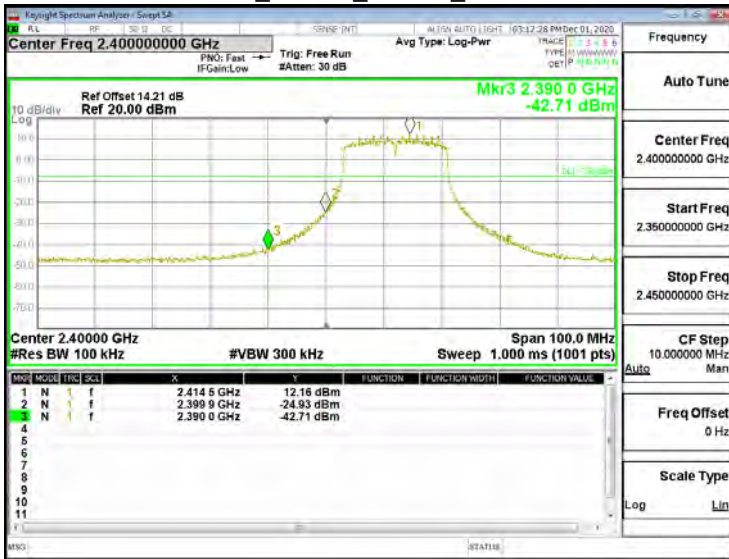


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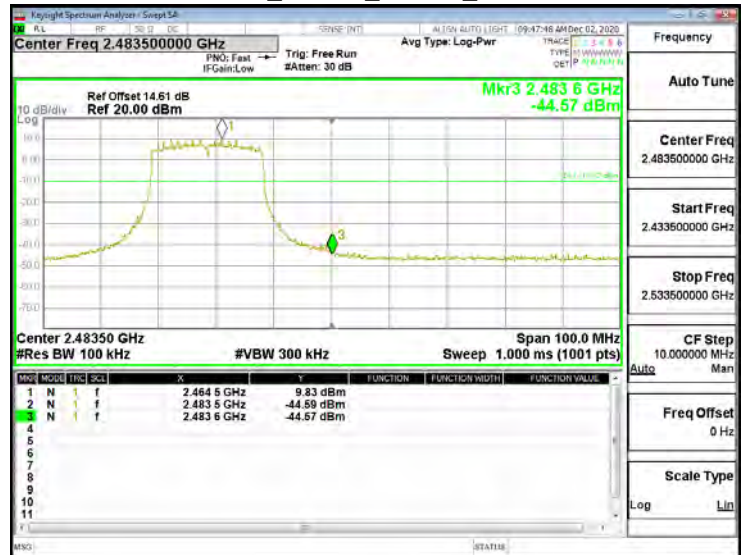
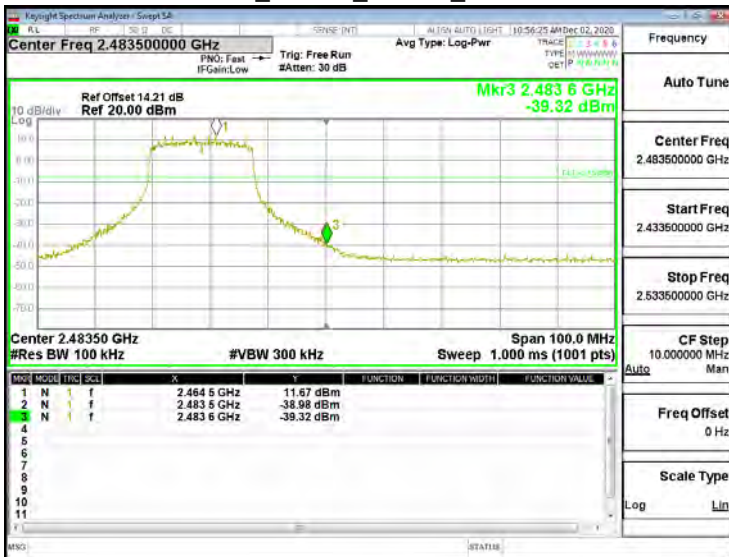
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802.11n_20MHz_Chain0_2412MHz



802.11ax_20MHz_Chain0_2462MHz

802.11n_20MHz_Chain0_2462MHz



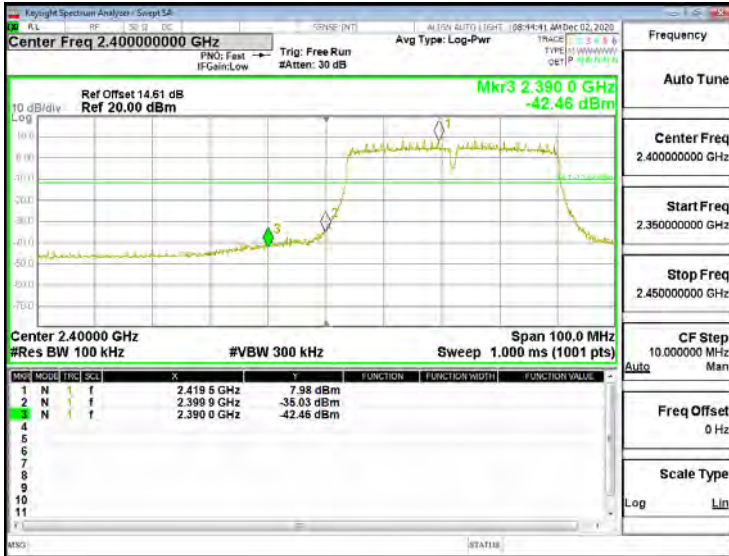
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802.11ax_20MHz_Chain0_2412MHz

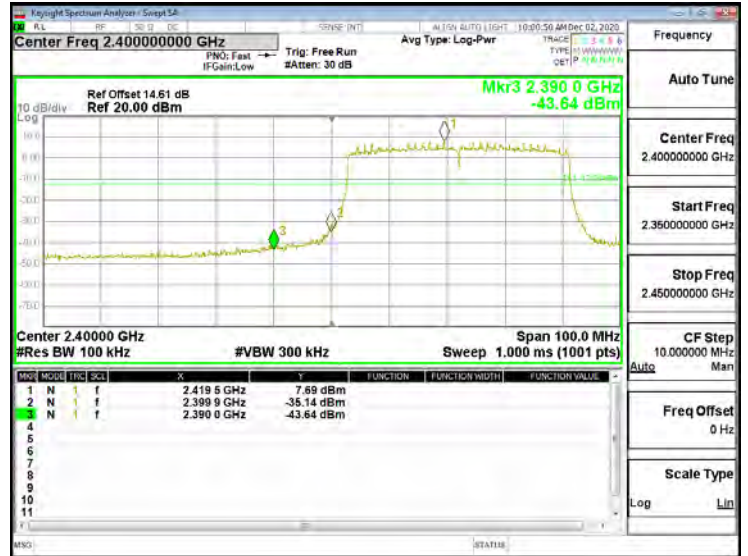
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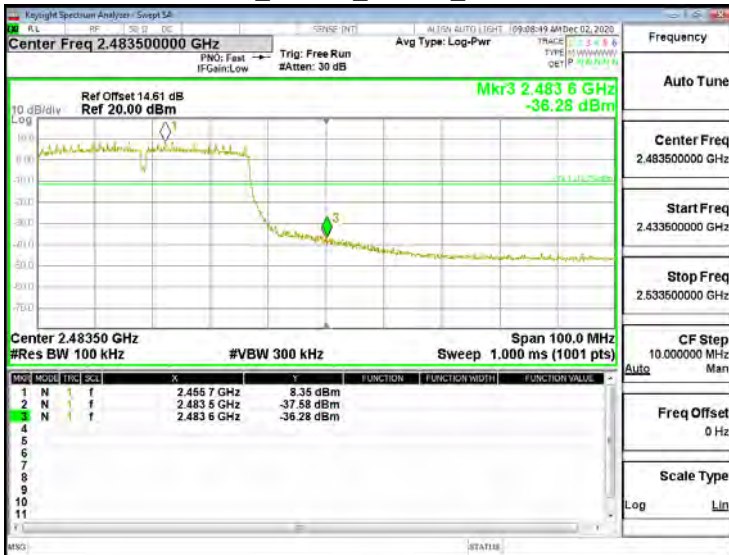
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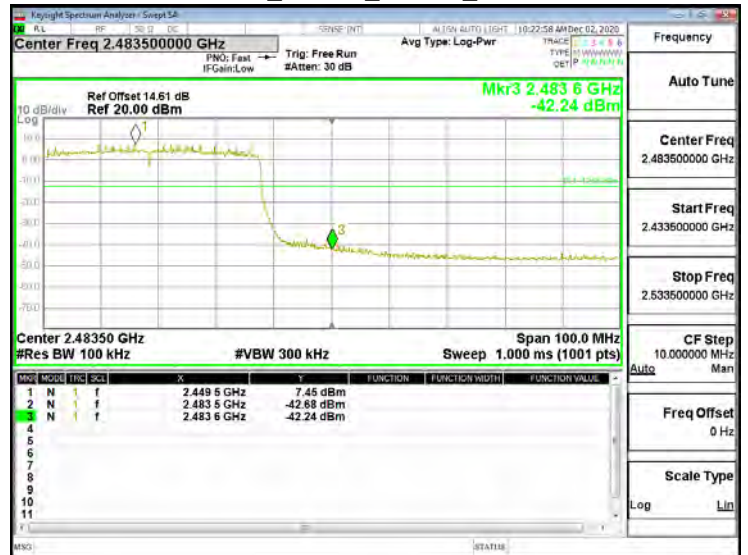
802.11n_40MHz_Chain0_2452MHz



802.11ax_40MHz_Chain0_2452MHz



802.11ax_40MHz_Chain0_2422MHz



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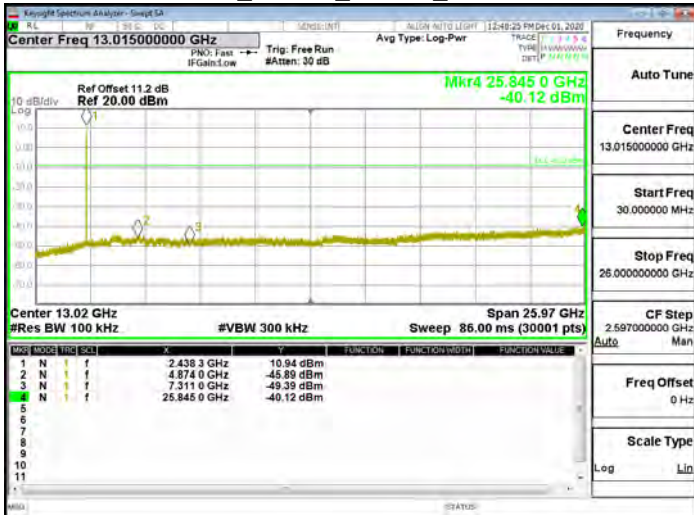
802.11b_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

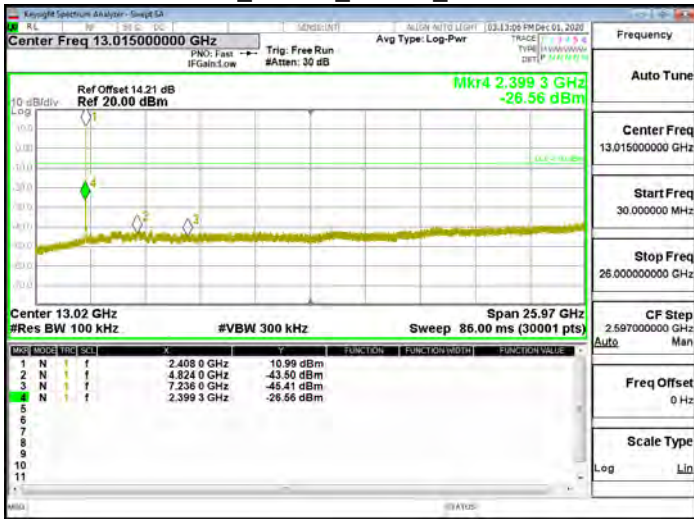


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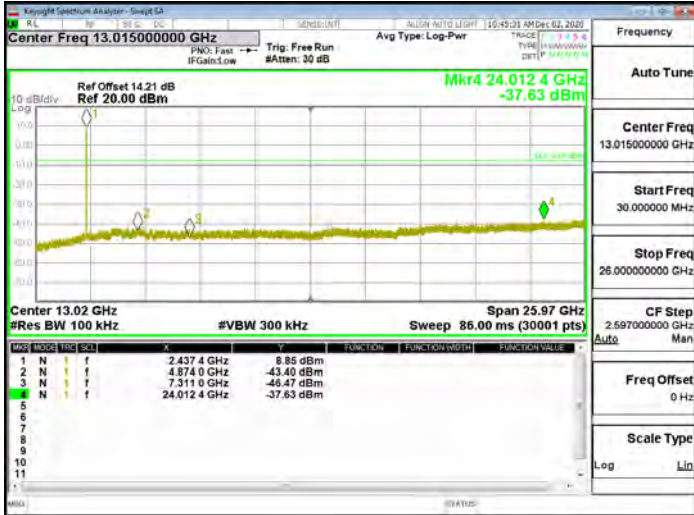
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802.11ax_20MHz_Chain0_2412MHz



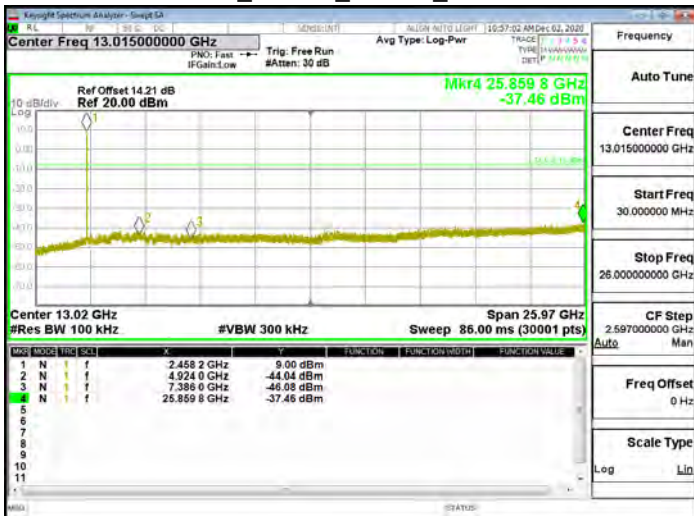
802.11n_20MHz_Chain0_2437MHz



802.11ax_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11ax_20MHz_Chain0_2462MHz



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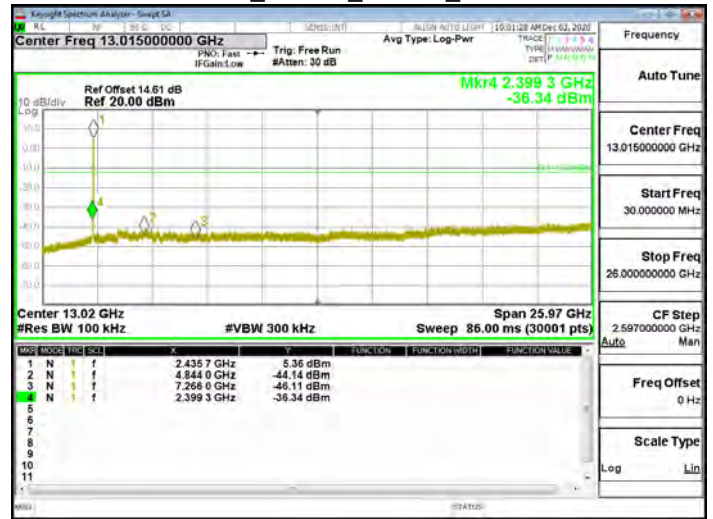
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802.11n_40MHz_Chain0_2422MHz



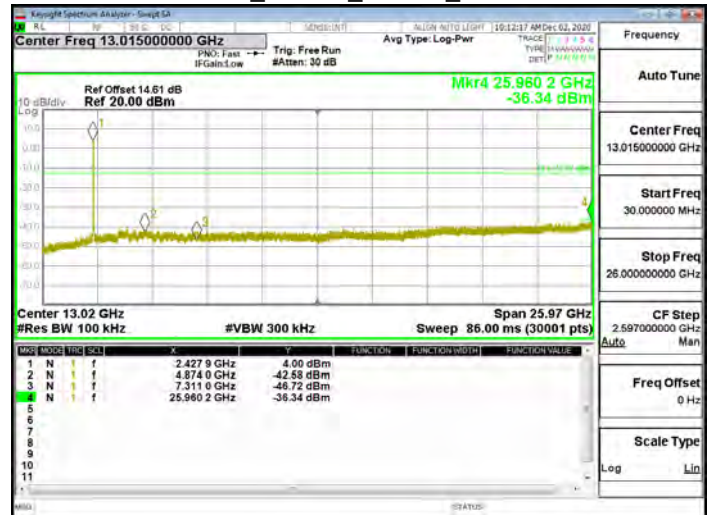
802.11ax_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain0_2437MHz



802.11ax_40MHz_Chain0_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11ax_40MHz_Chain0_2452MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below. And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

Note:

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

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11.2 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1441	10/16/2020	10/15/2021
Bi-log Antenna	SCHWAZBECK	VULB9168	378	08/06/2020	08/05/2021
Loop Antenna	ETS.LINDGREN	6502	148045	10/19/2020	10/18/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021
Pre-Amplifier	HP	8449B	3008A00578	12/16/2020	12/15/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A07676	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2020	12/15/2021
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R
Site Cal	SGS	SAC III chamber	N/A	01/01/2021	12/31/2021
DC Power Supply	Agilent	E3640A	KR93300208	08/19/2020	08/18/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/29/2020	10/28/2021

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

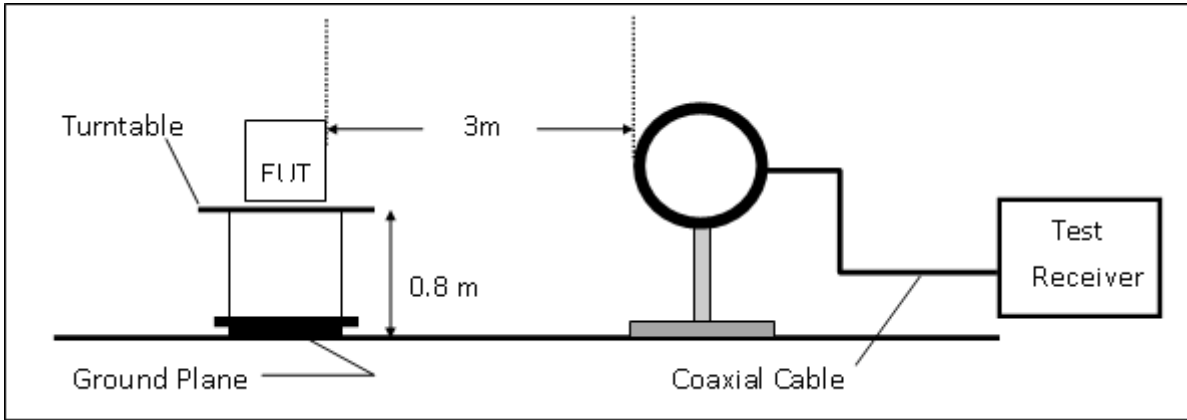
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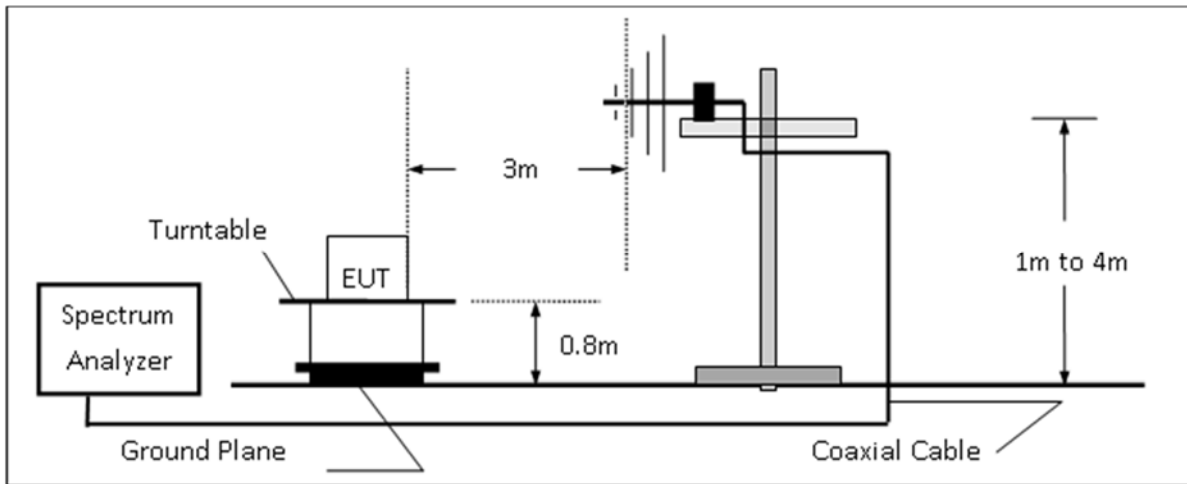
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11.3 Test SET-UP

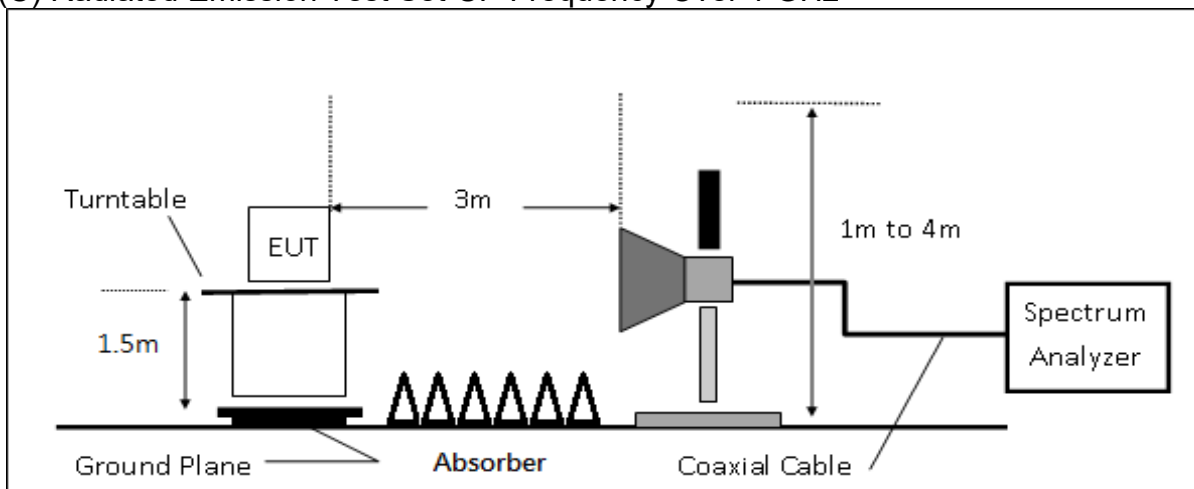
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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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

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

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

Factor(dB) = Antenna Factor(dB μ V/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) & RSS-GEN §6.13.2 was not reported.

11.7 Measurement Result

Note:

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

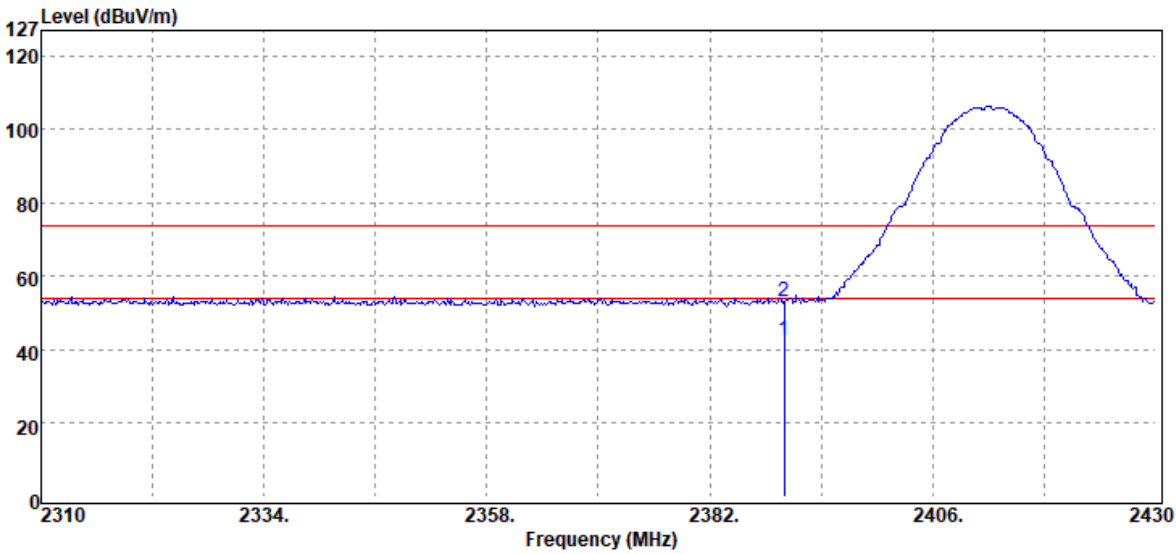
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11.7.1 Radiated Band Edge Measurement Result

Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11b	Test Date	:2020-12-03
Test Frequency	:2412 MHz	Temp./Humi.	:23.0/58
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	41.85	0.92	42.77	54.00	-11.23
2390.00	Peak	52.33	0.92	53.25	74.00	-20.75

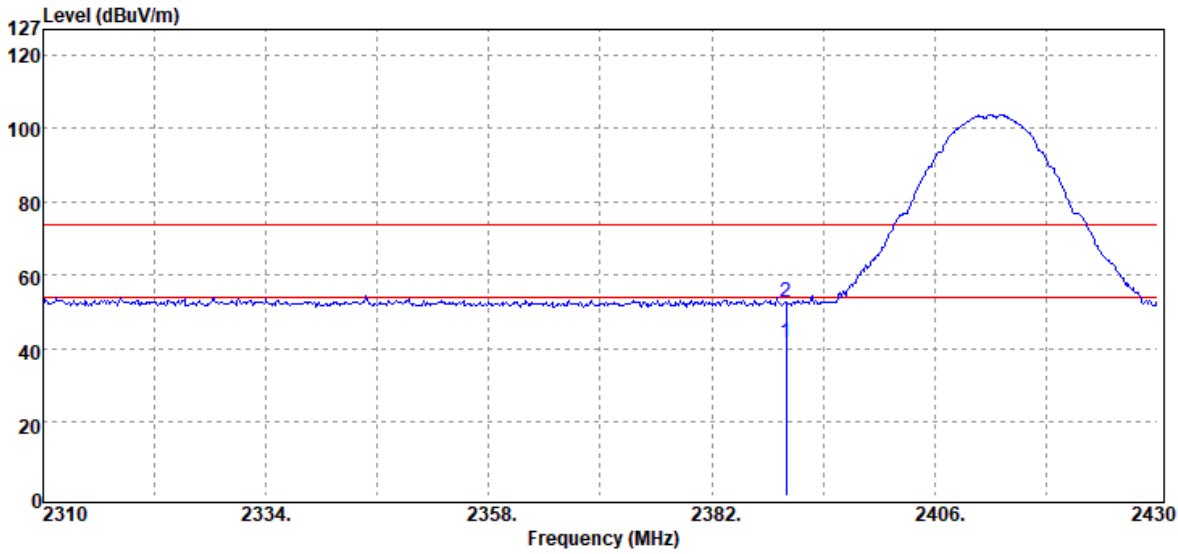
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Report Number :ER-2020-B0046
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	40.68	0.92	41.60	54.00	-12.40
2390.00	Peak	51.75	0.92	52.67	74.00	-21.33

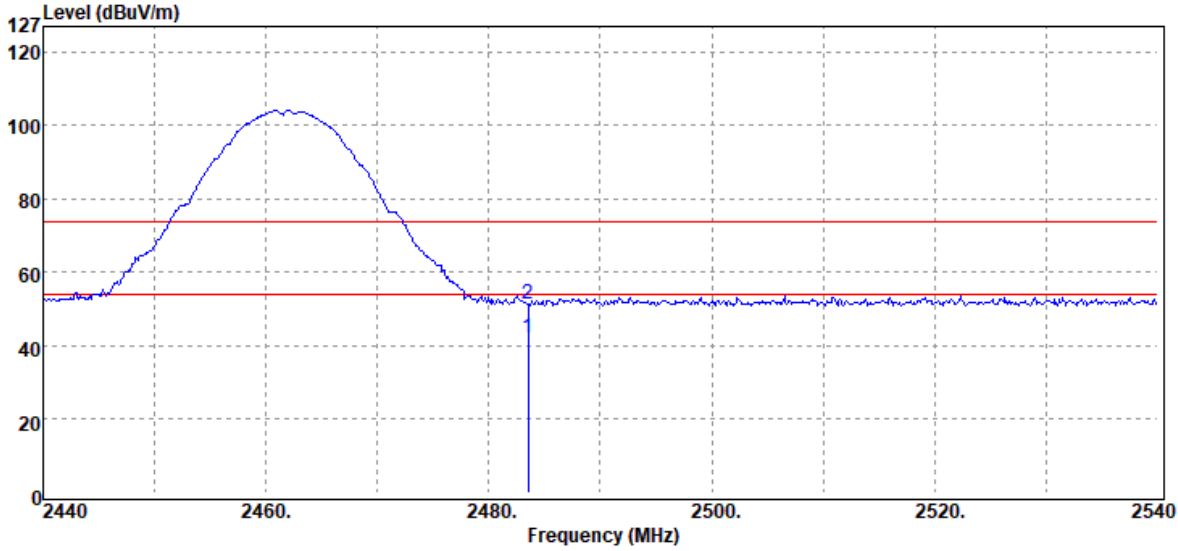
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Report Number :ER-2020-B0046
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	41.57	0.67	42.24	54.00	-11.76
2483.50	Peak	50.66	0.67	51.33	74.00	-22.67

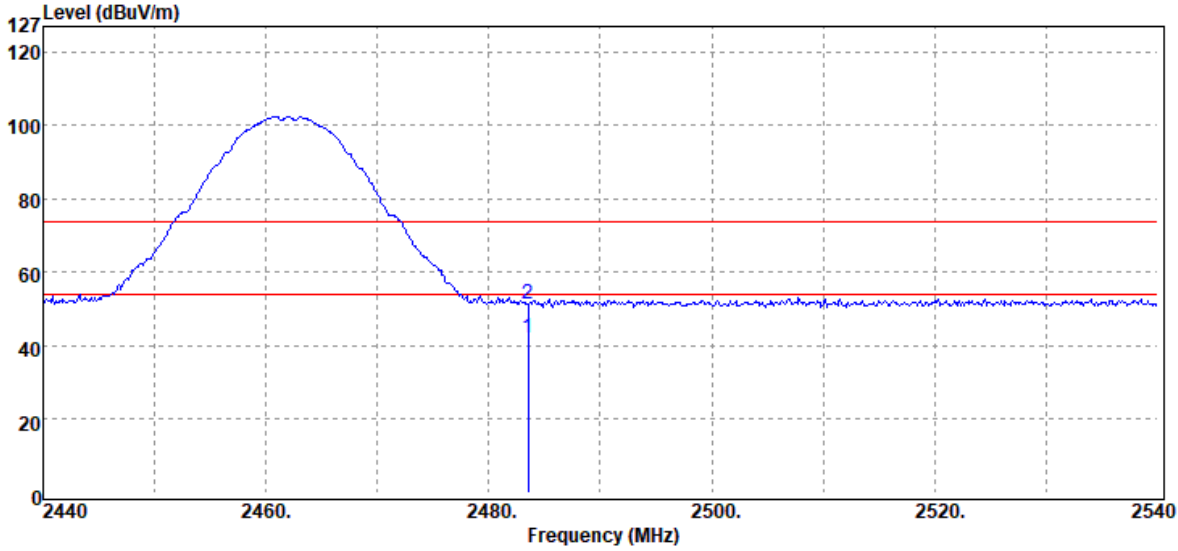
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 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.50	Average	41.46	0.67	42.13	54.00	-11.87
2483.50	Peak	50.71	0.67	51.38	74.00	-22.62

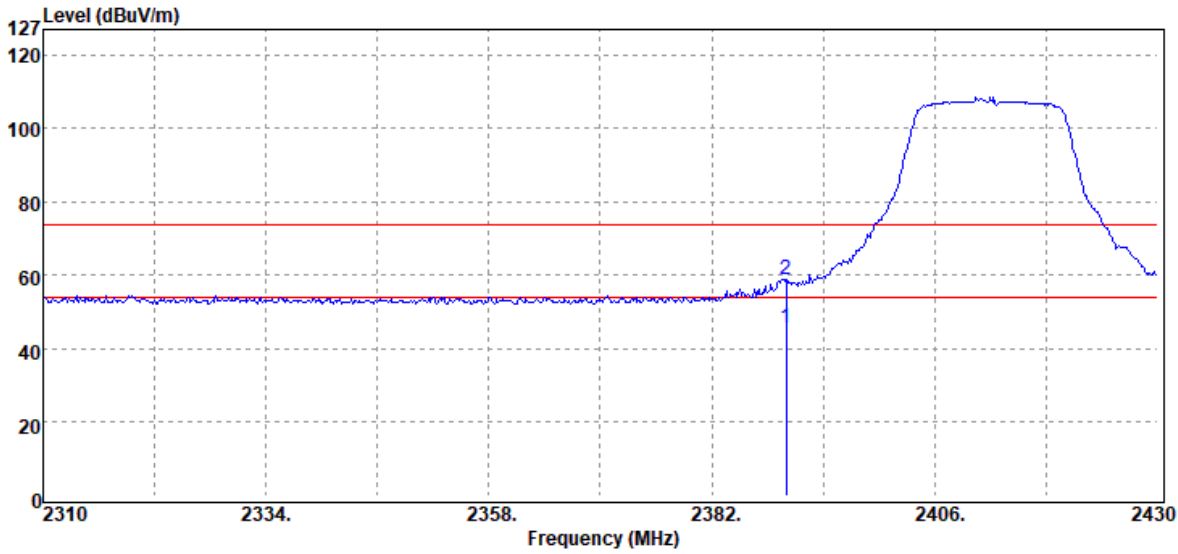
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Report Number :ER-2020-B0046
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	44.72	0.92	45.64	54.00	-8.36
2390.00	Peak	57.89	0.92	58.81	74.00	-15.19

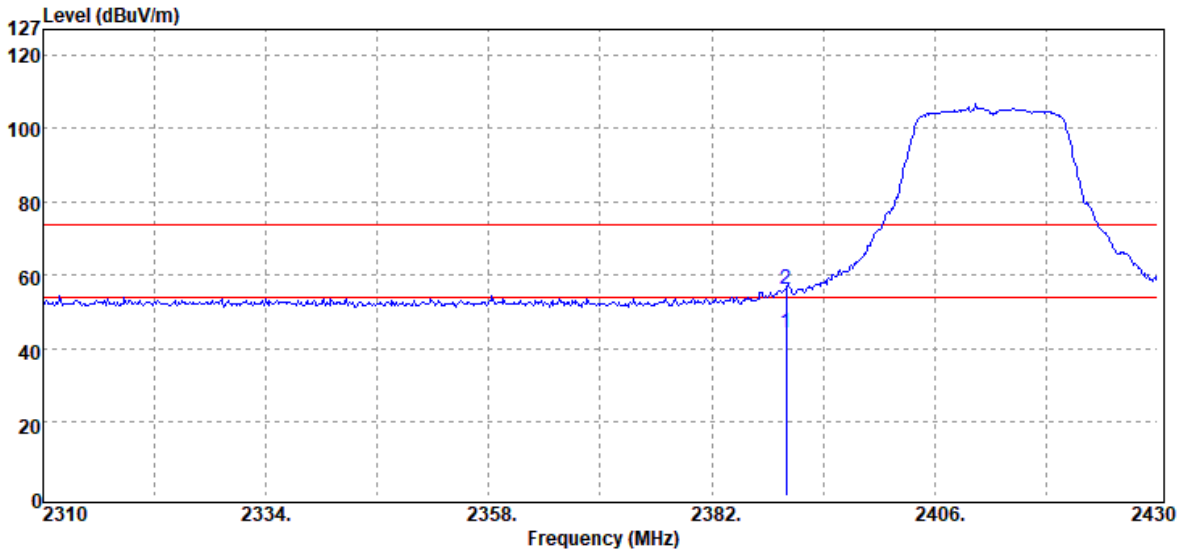
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 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	43.44	0.92	44.36	54.00	-9.64
2390.00	Peak	55.35	0.92	56.27	74.00	-17.73

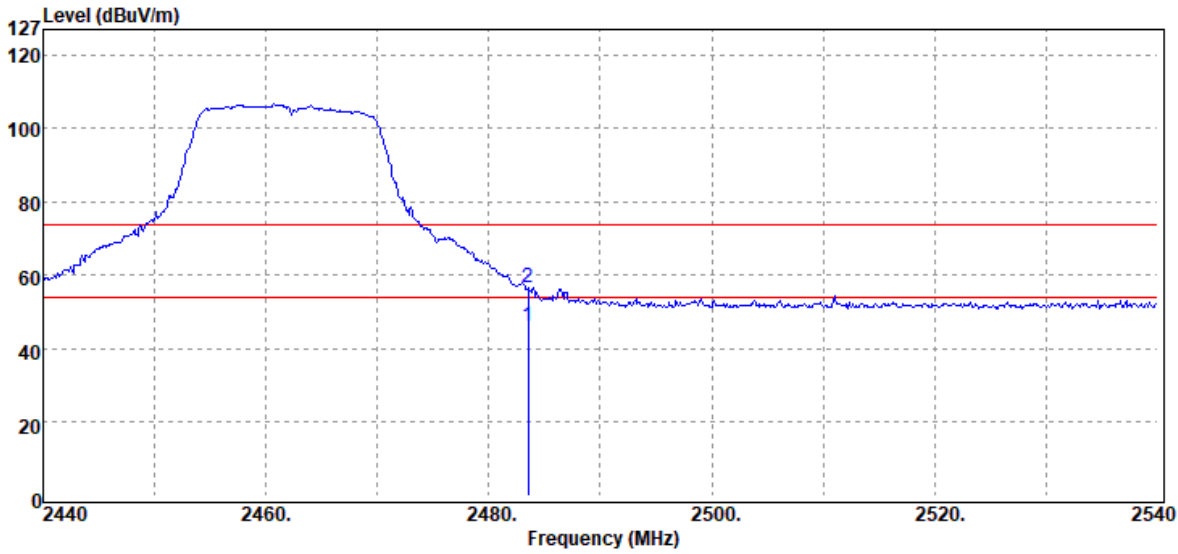
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Report Number :ER-2020-B0046
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :VERTICAL
 Engineer :Nick



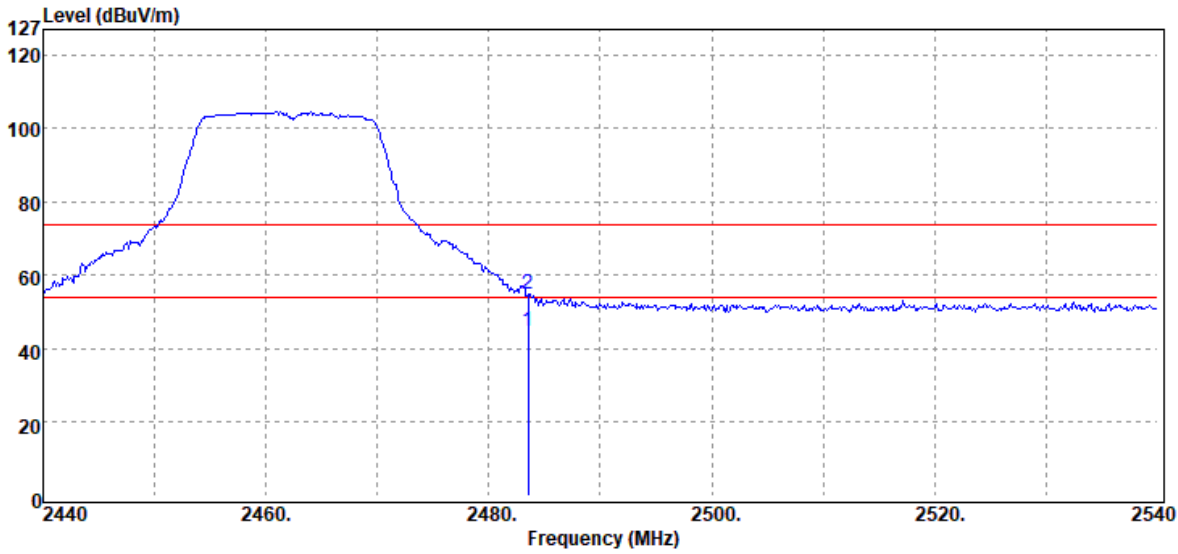
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.28	0.67	45.95	54.00	-8.05
2483.50	Peak	55.89	0.67	56.56	74.00	-17.44

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Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11g	Test Date	:2020-12-03
Test Frequency	:2462 MHz	Temp./Humi.	:23.0/58
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	44.19	0.67	44.86	54.00	-9.14
2483.50	Peak	54.12	0.67	54.79	74.00	-19.21

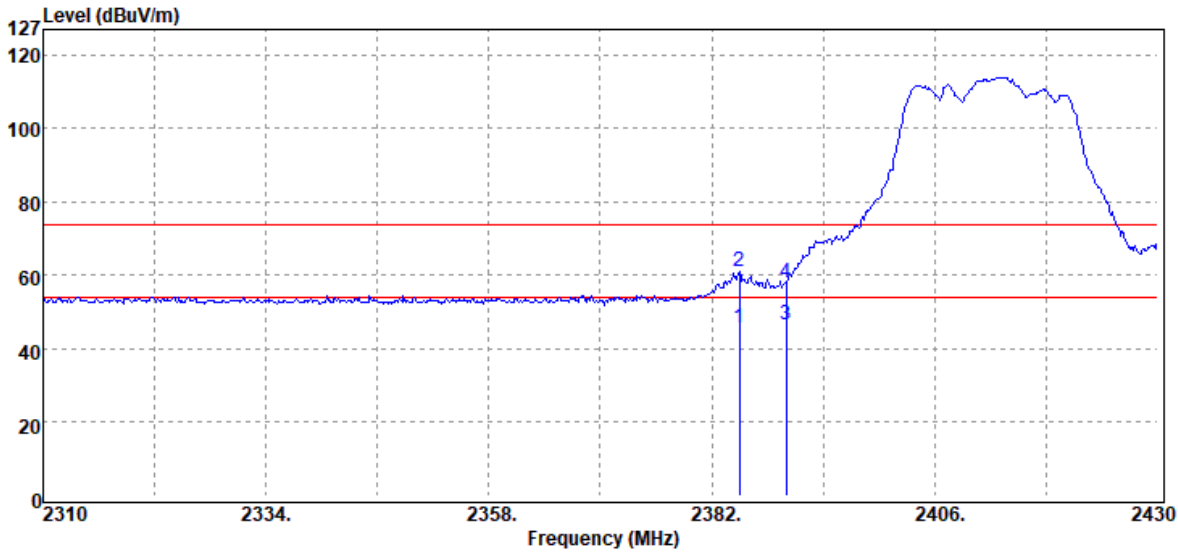
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Report Number :ER-2020-B0046
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2385.00	Average	44.72	0.93	45.65	54.00	-8.35
2385.00	Peak	60.10	0.93	61.03	74.00	-12.97
2390.00	Average	45.87	0.92	46.79	54.00	-7.21
2390.00	Peak	57.17	0.92	58.09	74.00	-15.91

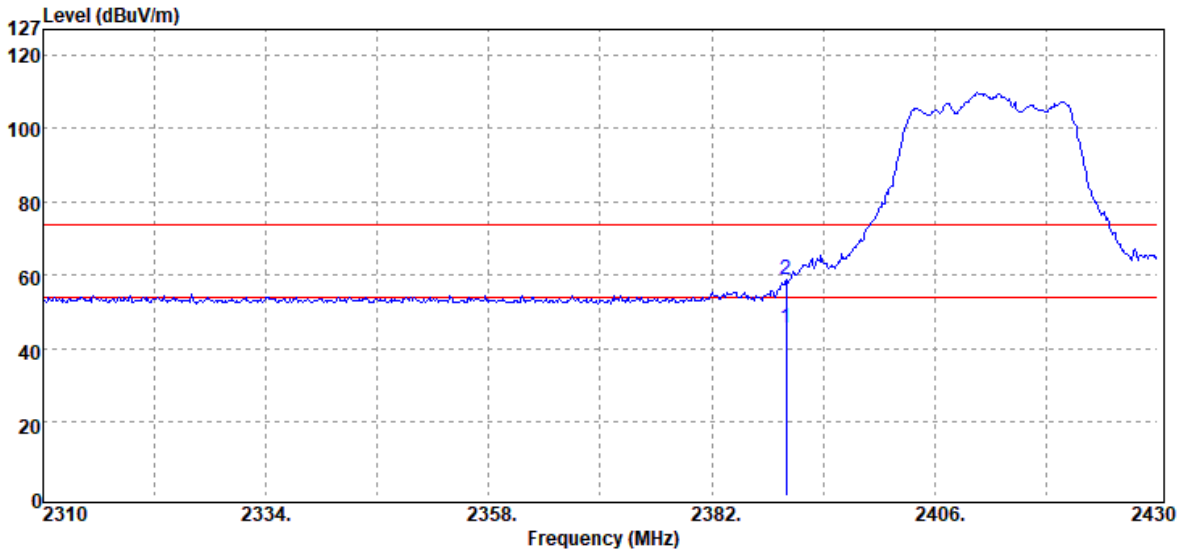
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Report Number :ER-2020-B0046
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	44.88	0.92	45.80	54.00	-8.20
2390.00	Peak	57.76	0.92	58.68	74.00	-15.32

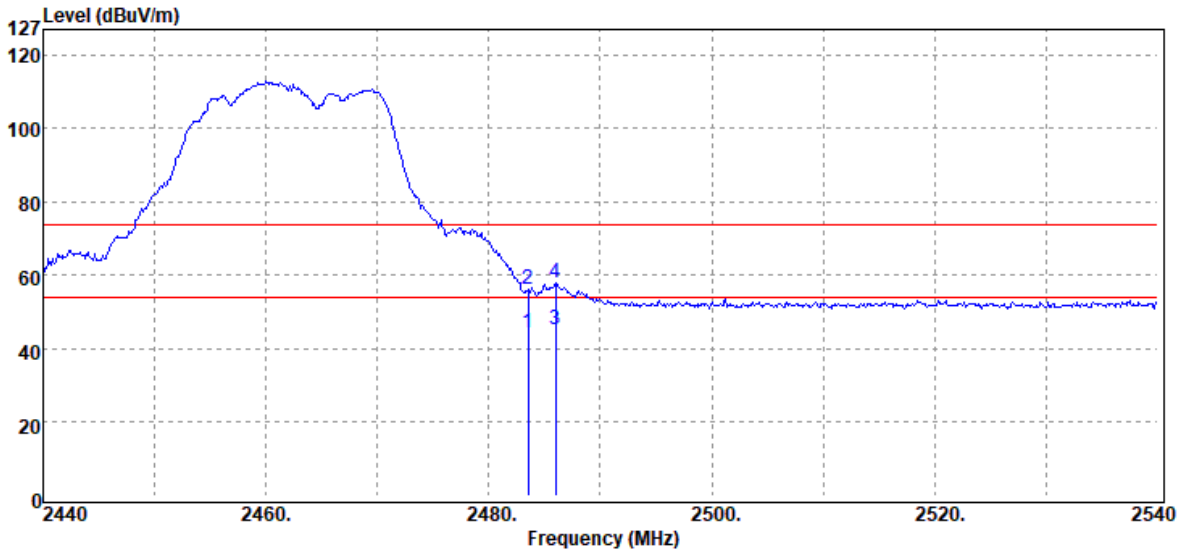
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Report Number :ER-2020-B0046
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	43.67	0.67	44.34	54.00	-9.66
2483.50	Peak	55.47	0.67	56.14	74.00	-17.86
2486.00	Average	44.63	0.66	45.29	54.00	-8.71
2486.00	Peak	57.22	0.66	57.88	74.00	-16.12

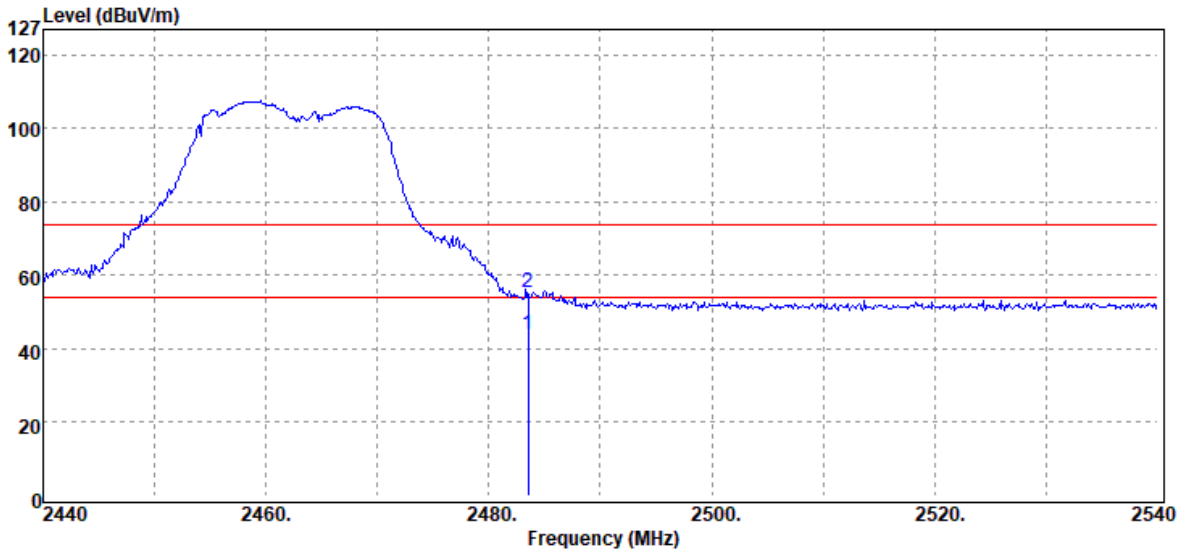
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Report Number :ER-2020-B0046
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	43.36	0.67	44.03	54.00	-9.97
2483.50	Peak	54.65	0.67	55.32	74.00	-18.68

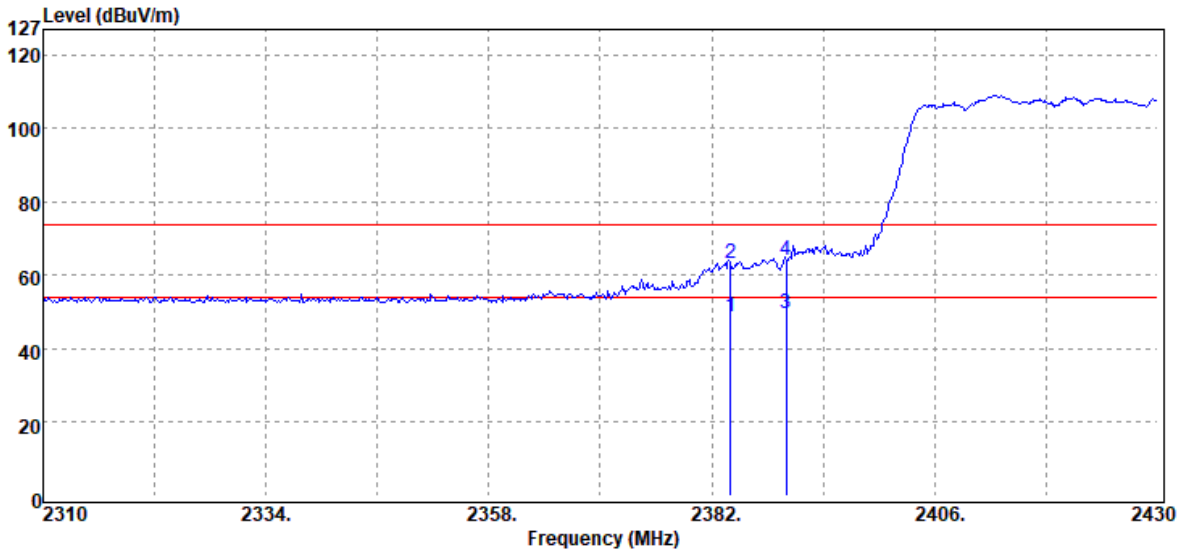
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Report Number :ER-2020-B0046
 Operation Mode :802.11n40
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2384.00	Average	48.01	0.92	48.93	54.00	-5.07
2384.00	Peak	62.31	0.92	63.23	74.00	-10.77
2390.00	Average	48.54	0.92	49.46	54.00	-4.54
2390.00	Peak	63.08	0.92	64.00	74.00	-10.00

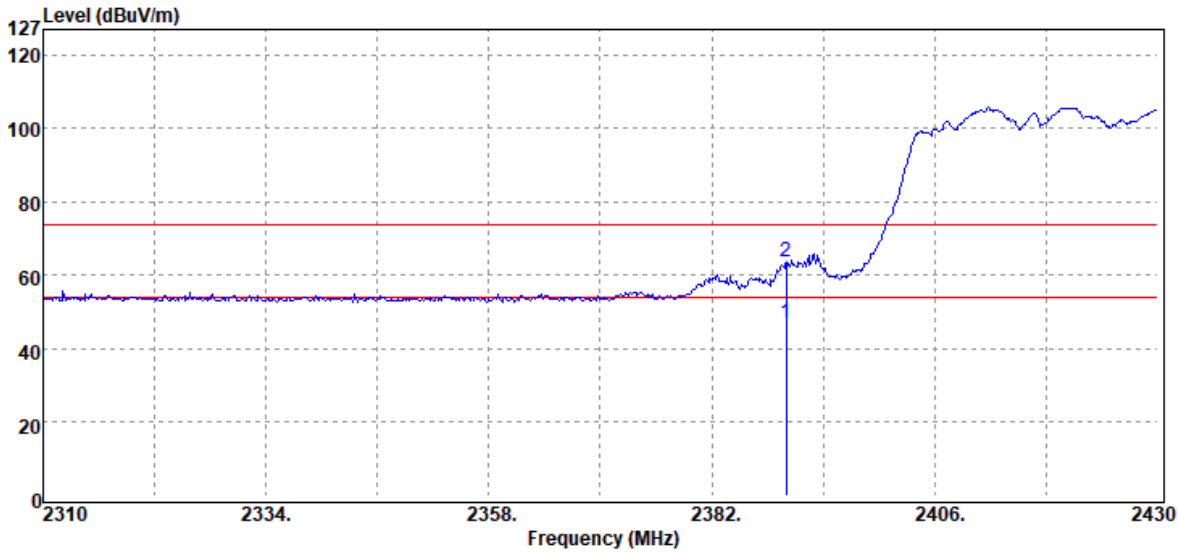
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Report Number :ER-2020-B0046
 Operation Mode :802.11n40
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	46.17	0.92	47.09	54.00	-6.91
2390.00	Peak	62.70	0.92	63.62	74.00	-10.38

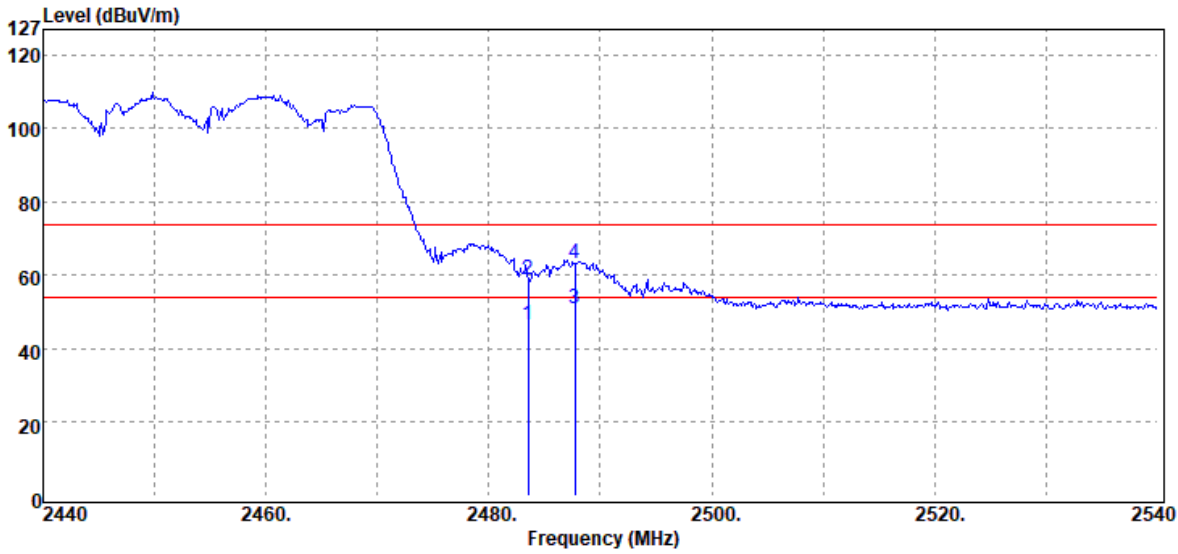
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Report Number :ER-2020-B0046
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.97	0.67	46.64	54.00	-7.36
2483.50	Peak	58.20	0.67	58.87	74.00	-15.13
2487.70	Average	50.18	0.65	50.83	54.00	-3.17
2487.70	Peak	62.75	0.65	63.40	74.00	-10.60

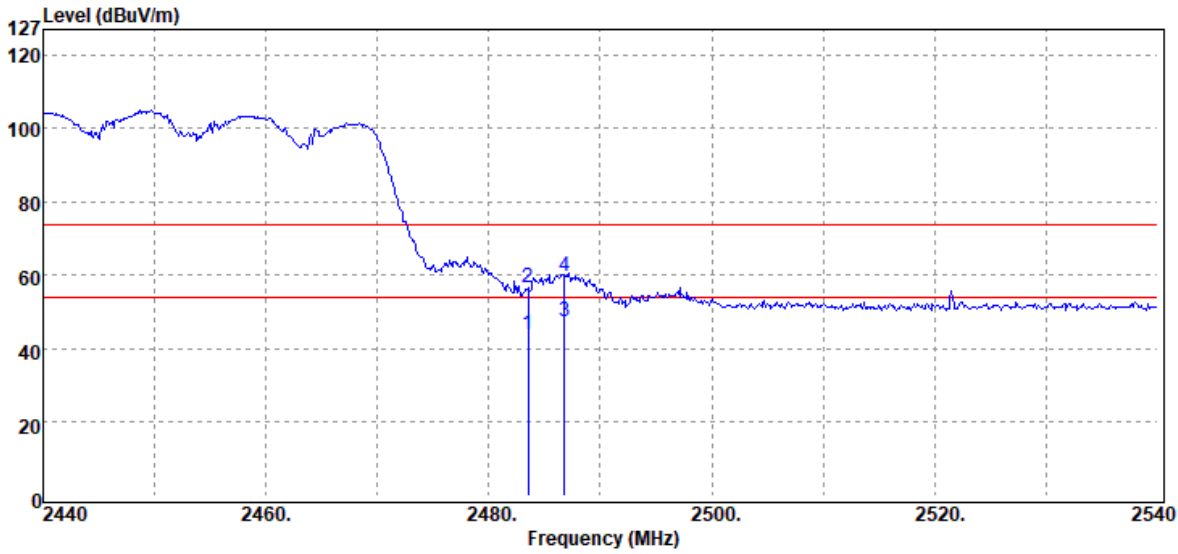
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Report Number :ER-2020-B0046
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	43.35	0.67	44.02	54.00	-9.98
2483.50	Peak	56.00	0.67	56.67	74.00	-17.33
2486.80	Average	46.82	0.65	47.47	54.00	-6.53
2486.80	Peak	59.08	0.65	59.73	74.00	-14.27

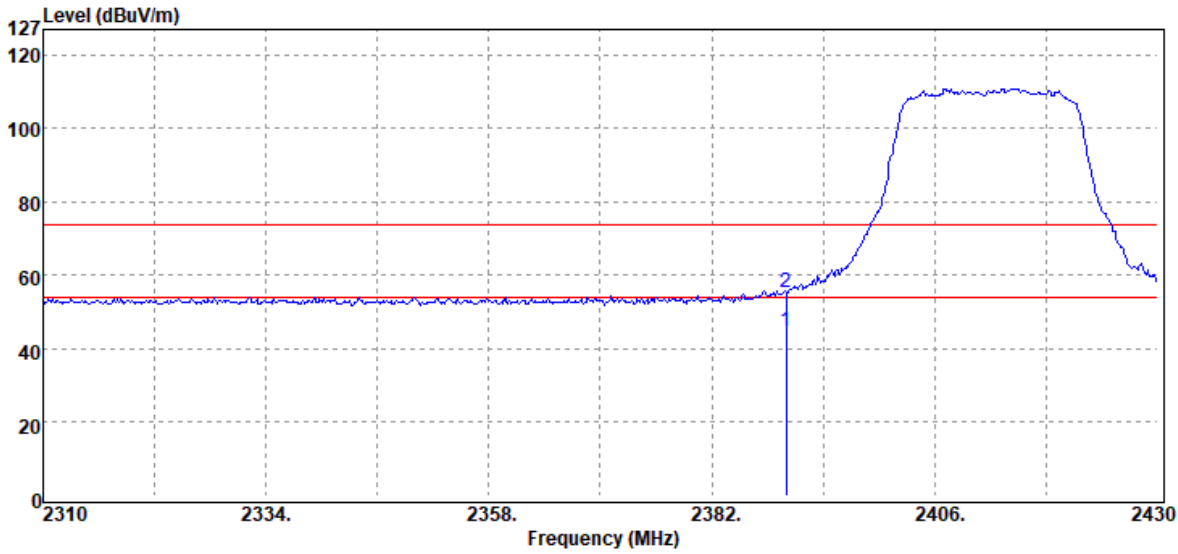
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU full
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :VERTICAL
 Engineer :Nick



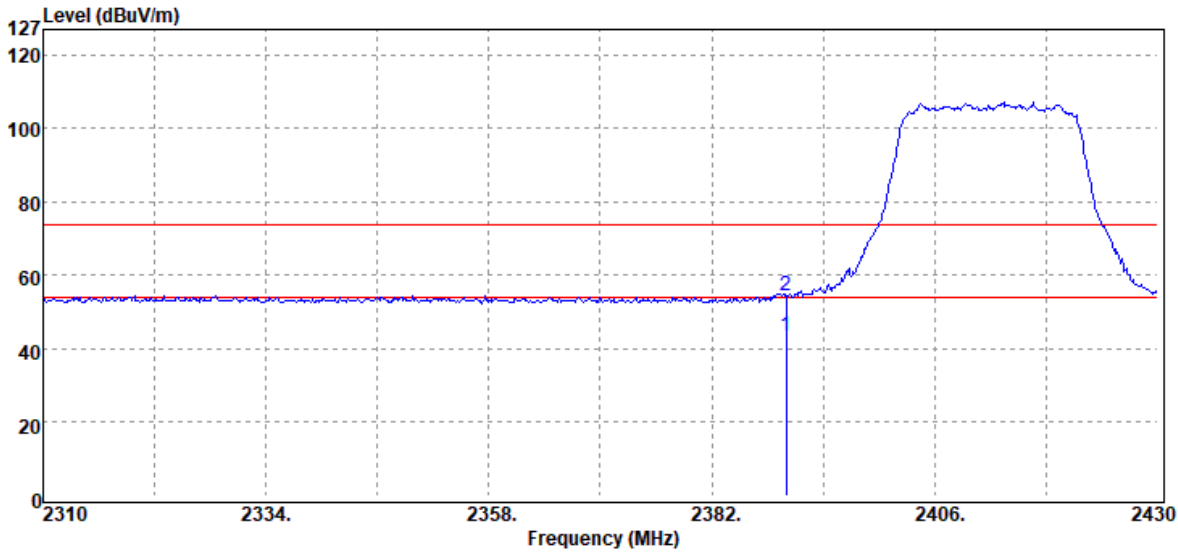
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	43.82	0.92	44.74	54.00	-9.26
2390.00	Peak	54.64	0.92	55.56	74.00	-18.44

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Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11ax20 RU full	Test Date	:2020-12-03
Test Frequency	:2412 MHz	Temp./Humi.	:23.0/58
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	42.47	0.92	43.39	54.00	-10.61
2390.00	Peak	53.37	0.92	54.29	74.00	-19.71

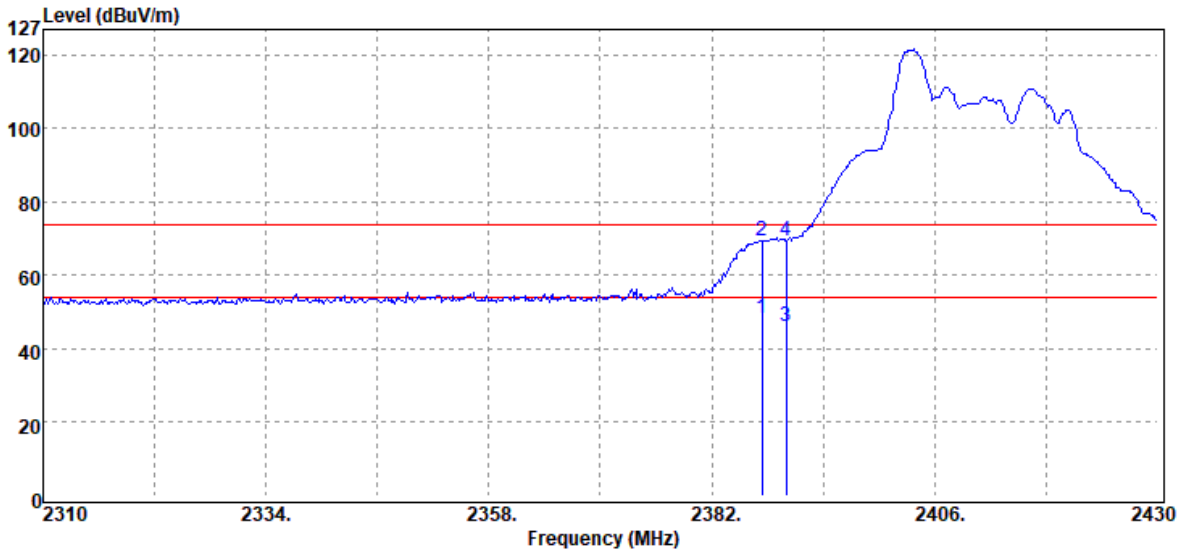
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU 26/0
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2387.40	Average	47.26	0.92	48.18	54.00	-5.82
2387.40	Peak	68.64	0.92	69.56	74.00	-4.44
2390.00	Average	45.42	0.92	46.34	54.00	-7.66
2390.00	Peak	68.47	0.92	69.39	74.00	-4.61

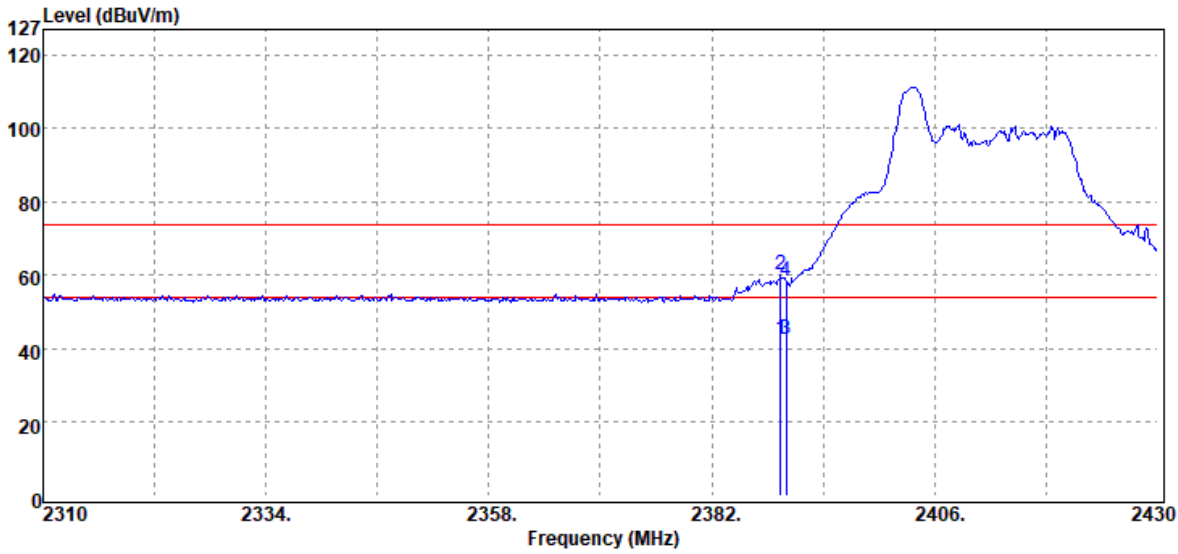
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU 26/0
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2389.44	Average	41.69	0.91	42.60	54.00	-11.40
2389.44	Peak	59.22	0.91	60.13	74.00	-13.87
2390.00	Average	41.75	0.92	42.67	54.00	-11.33
2390.00	Peak	57.49	0.92	58.41	74.00	-15.59

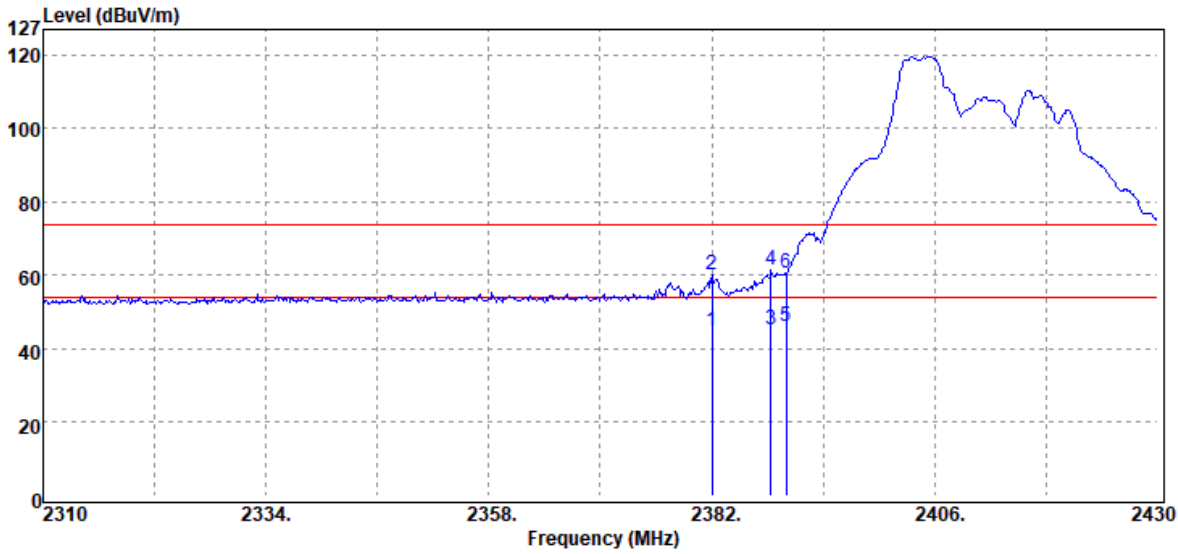
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU 52/37
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2382.00	Average	43.93	0.93	44.86	54.00	-9.14
2382.00	Peak	59.14	0.93	60.07	74.00	-13.93
2388.36	Average	44.52	0.92	45.44	54.00	-8.56
2388.36	Peak	60.40	0.92	61.32	74.00	-12.68
2390.00	Average	45.27	0.92	46.19	54.00	-7.81
2390.00	Peak	59.92	0.92	60.84	74.00	-13.16

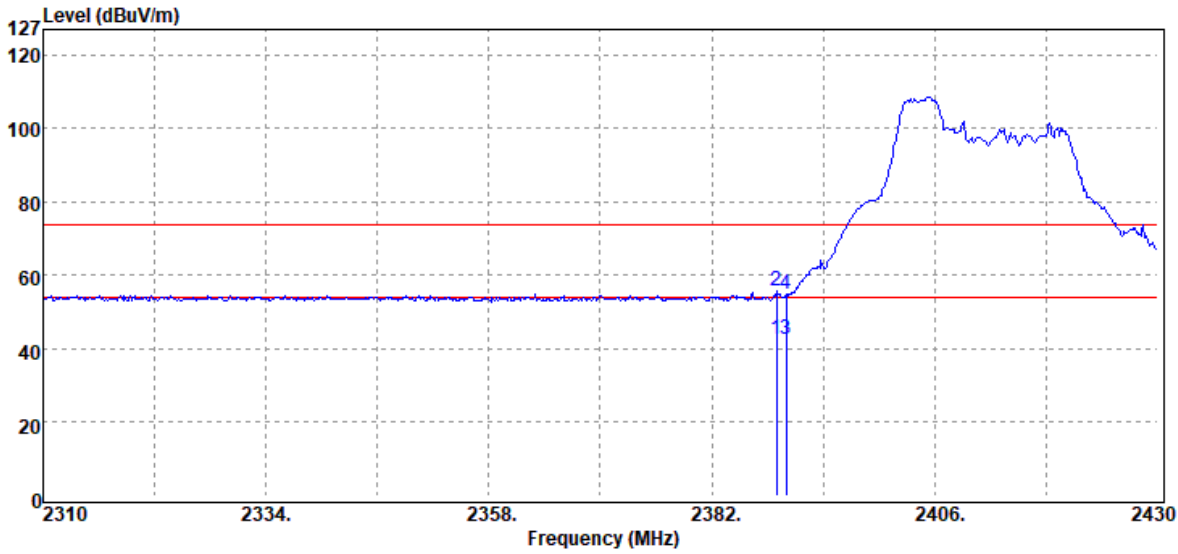
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU 52/37
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2388.96	Average	41.60	0.91	42.51	54.00	-11.49
2388.96	Peak	54.95	0.91	55.86	74.00	-18.14
2390.00	Average	41.67	0.92	42.59	54.00	-11.41
2390.00	Peak	53.98	0.92	54.90	74.00	-19.10

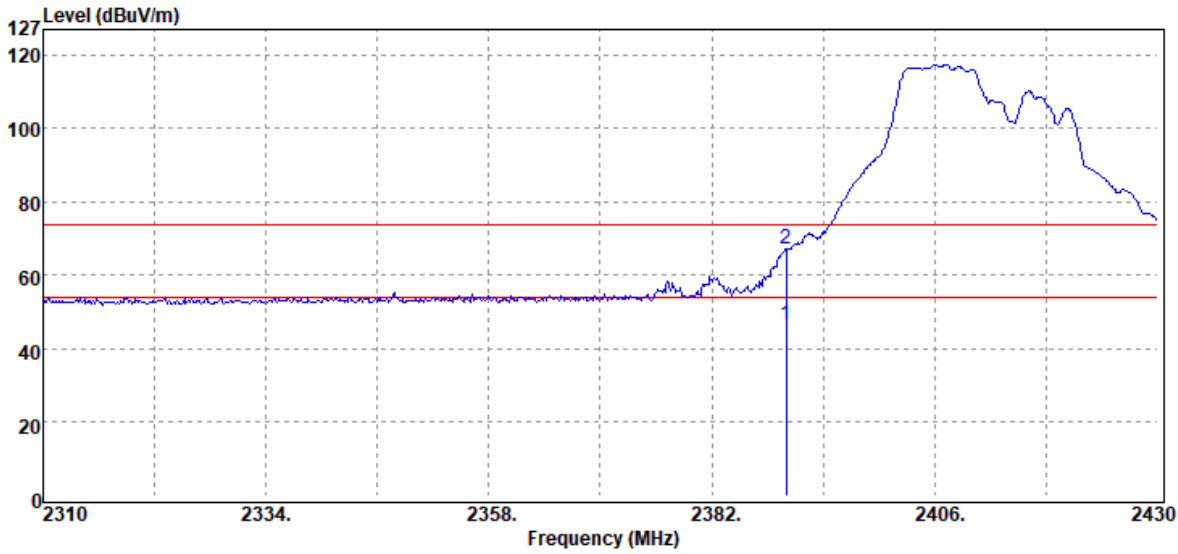
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU 106/53
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	45.51	0.92	46.43	54.00	-7.57
2390.00	Peak	66.42	0.92	67.34	74.00	-6.66

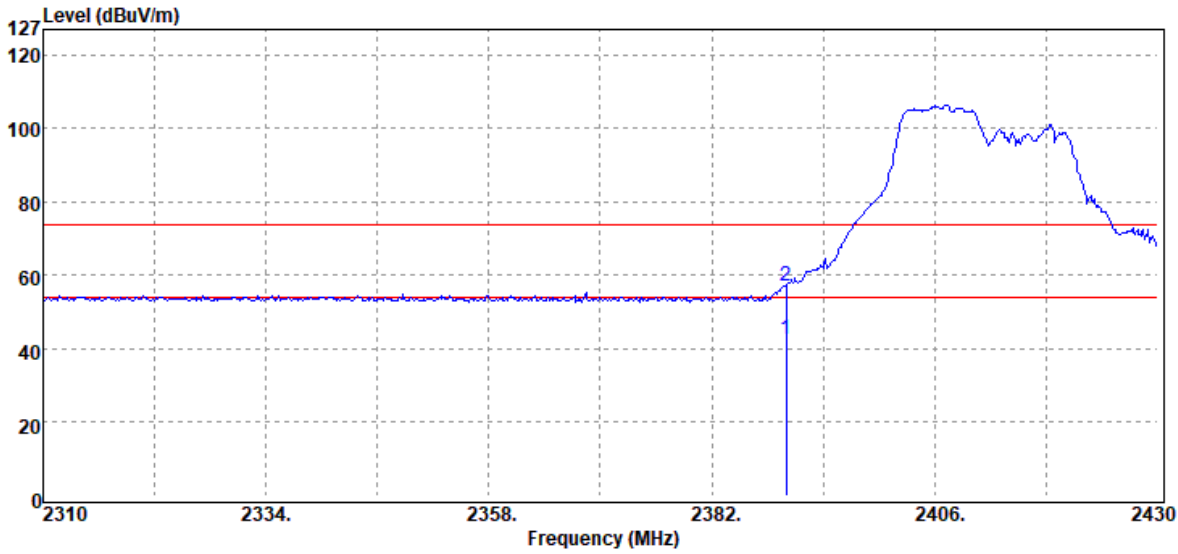
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU 106/53
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	41.79	0.92	42.71	54.00	-11.29
2390.00	Peak	56.15	0.92	57.07	74.00	-16.93

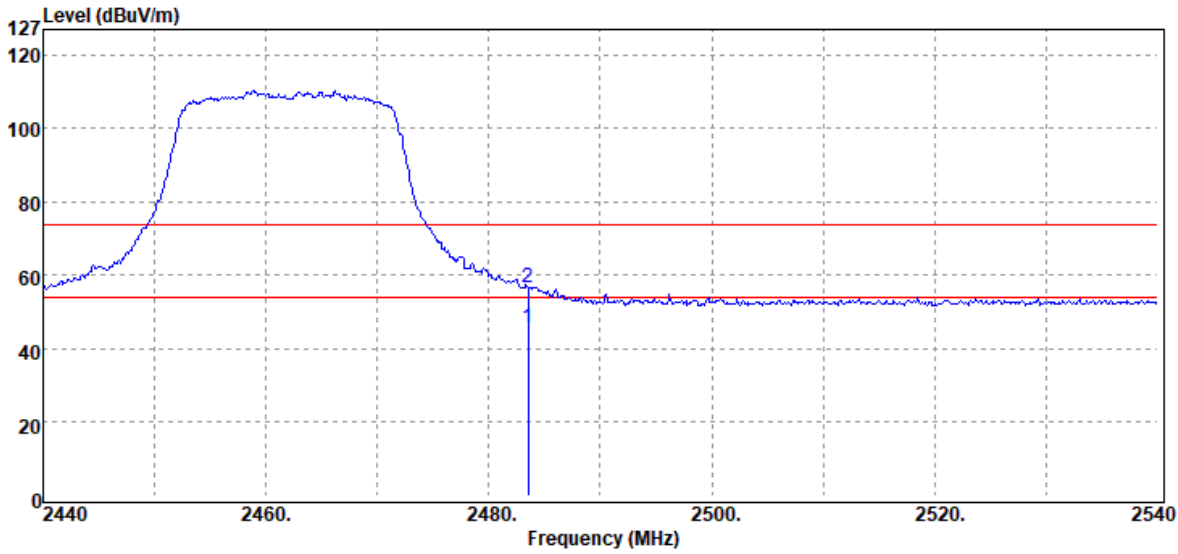
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU full
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :VERTICAL
 Engineer :Nick



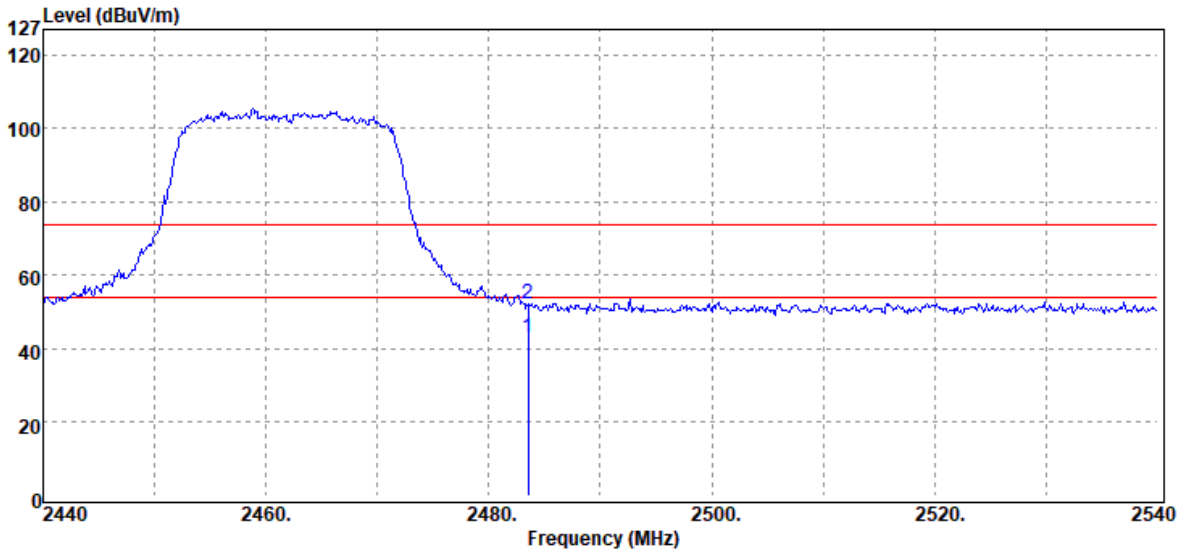
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.16	0.67	45.83	54.00	-8.17
2483.50	Peak	56.06	0.67	56.73	74.00	-17.27

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Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11ax20 RU full	Test Date	:2020-12-03
Test Frequency	:2462 MHz	Temp./Humi.	:23.0/58
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.50	Average	42.61	0.67	43.28	54.00	-10.72
2483.50	Peak	51.52	0.67	52.19	74.00	-21.81

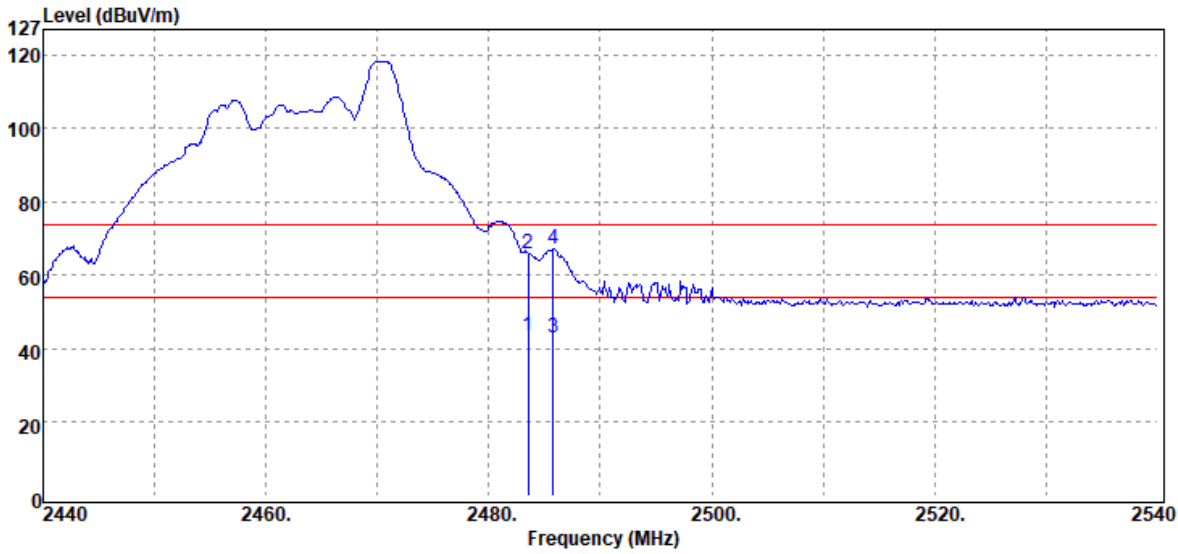
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU 26/8
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	42.65	0.67	43.32	54.00	-10.68
2483.50	Peak	65.27	0.67	65.94	74.00	-8.06
2485.80	Average	42.49	0.66	43.15	54.00	-10.85
2485.80	Peak	66.59	0.66	67.25	74.00	-6.75

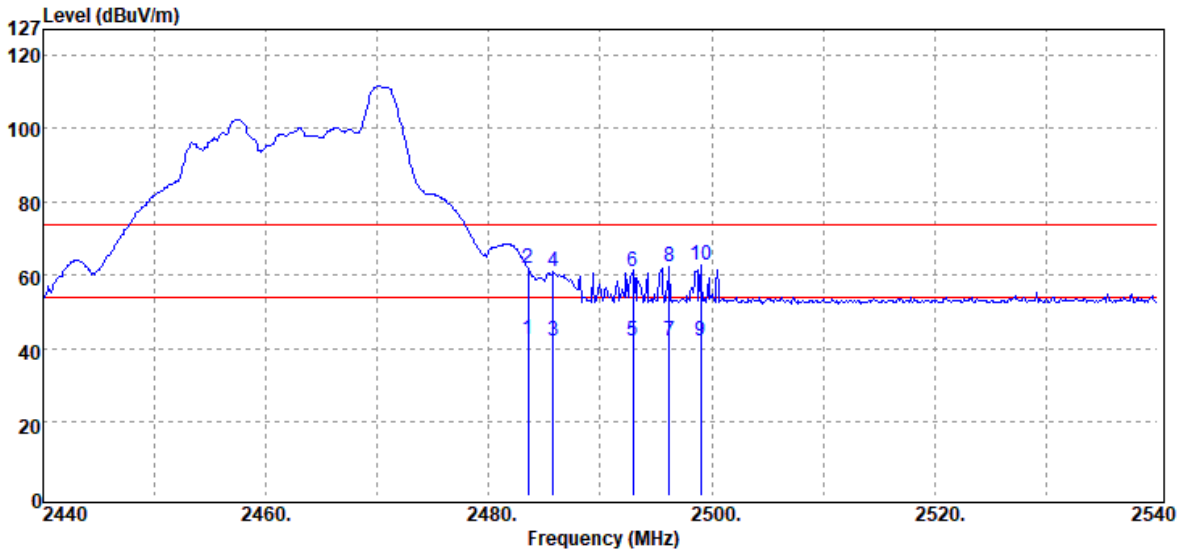
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU 26/8
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



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	41.75	0.67	42.42	54.00	-11.58
2483.50	Peak	61.48	0.67	62.15	74.00	-11.85
2485.80	Average	41.59	0.66	42.25	54.00	-11.75
2485.80	Peak	60.54	0.66	61.20	74.00	-12.80
2492.90	Average	41.49	0.63	42.12	54.00	-11.88
2492.90	Peak	60.39	0.63	61.02	74.00	-12.98
2496.20	Average	41.49	0.62	42.11	54.00	-11.89
2496.20	Peak	61.93	0.62	62.55	74.00	-11.45
2499.00	Average	41.40	0.60	42.00	54.00	-12.00
2499.00	Peak	62.17	0.60	62.77	74.00	-11.23

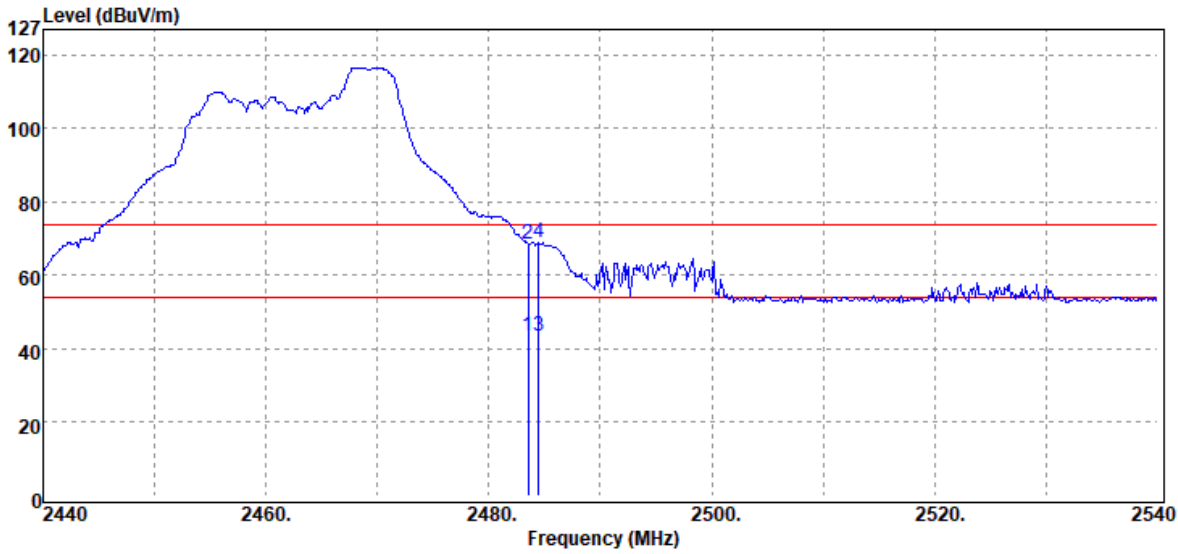
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU 52/40
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	42.96	0.67	43.63	54.00	-10.37
2483.50	Peak	67.85	0.67	68.52	74.00	-5.48
2484.50	Average	42.83	0.66	43.49	54.00	-10.51
2484.50	Peak	68.30	0.66	68.96	74.00	-5.04

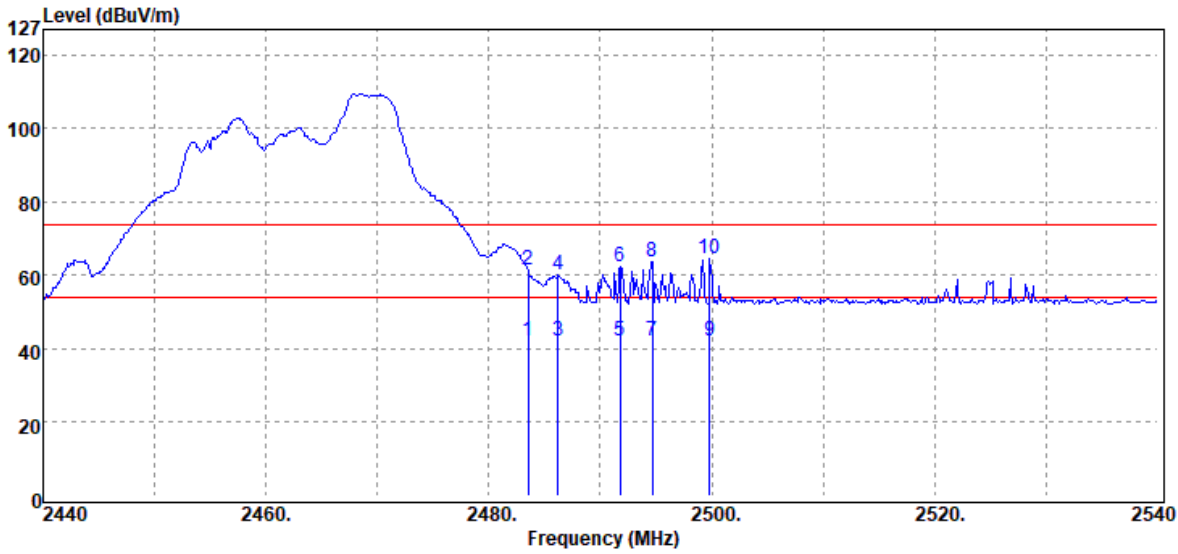
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU 52/40
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	41.67	0.67	42.34	54.00	-11.66
2483.50	Peak	60.94	0.67	61.61	74.00	-12.39
2486.20	Average	41.57	0.65	42.22	54.00	-11.78
2486.20	Peak	59.54	0.65	60.19	74.00	-13.81
2491.80	Average	41.54	0.63	42.17	54.00	-11.83
2491.80	Peak	61.96	0.63	62.59	74.00	-11.41
2494.70	Average	41.47	0.62	42.09	54.00	-11.91
2494.70	Peak	63.02	0.62	63.64	74.00	-10.36
2499.80	Average	41.43	0.60	42.03	54.00	-11.97
2499.80	Peak	63.79	0.60	64.39	74.00	-9.61

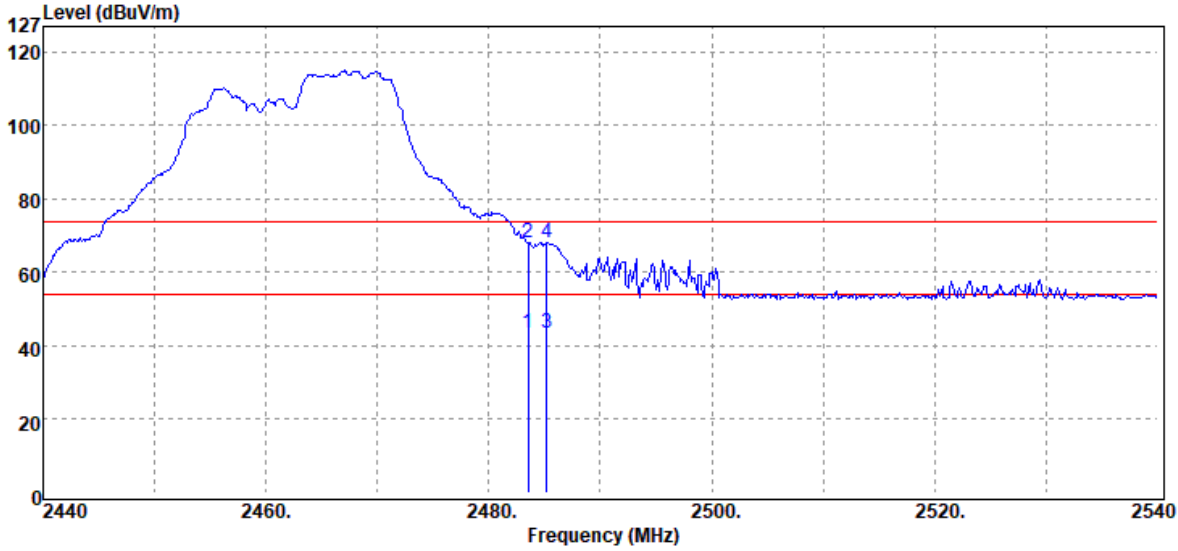
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU 106/54
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	42.88	0.67	43.55	54.00	-10.45
2483.50	Peak	67.34	0.67	68.01	74.00	-5.99
2485.20	Average	42.69	0.66	43.35	54.00	-10.65
2485.20	Peak	67.37	0.66	68.03	74.00	-5.97

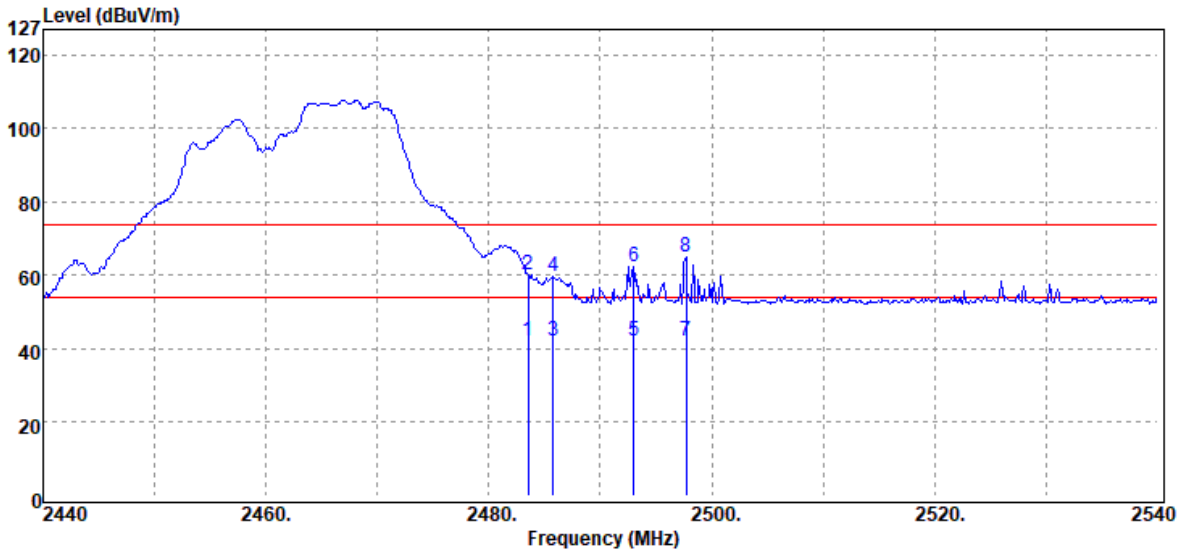
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU 106/54
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



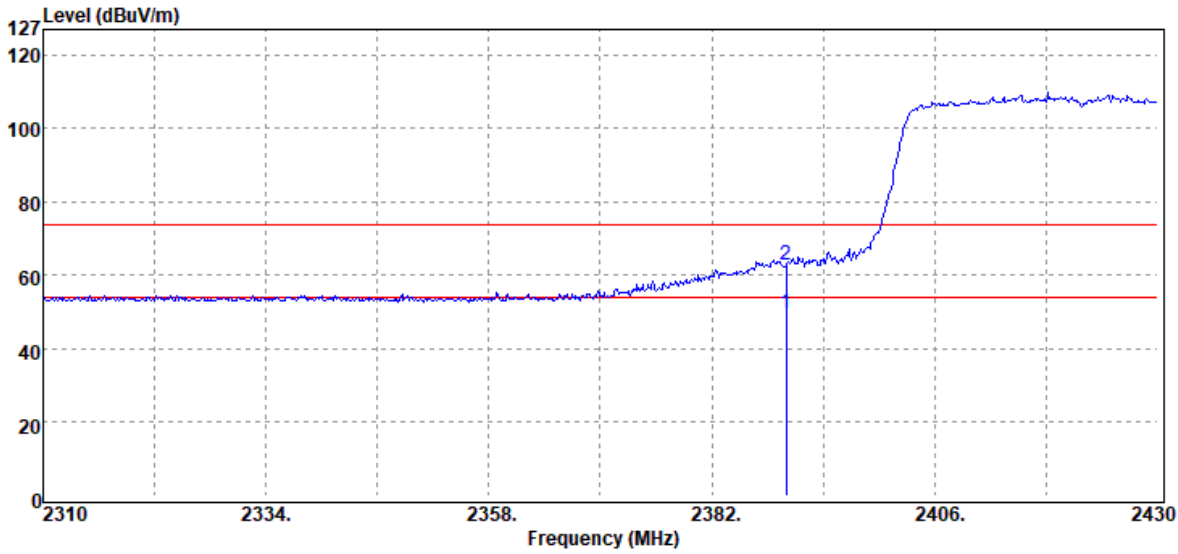
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	41.69	0.67	42.36	54.00	-11.64
2483.50	Peak	59.72	0.67	60.39	74.00	-13.61
2485.80	Average	41.55	0.66	42.21	54.00	-11.79
2485.80	Peak	58.91	0.66	59.57	74.00	-14.43
2493.00	Average	41.43	0.63	42.06	54.00	-11.94
2493.00	Peak	61.94	0.63	62.57	74.00	-11.43
2497.70	Average	41.39	0.61	42.00	54.00	-12.00
2497.70	Peak	64.43	0.61	65.04	74.00	-8.96

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Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11ax40 RU full	Test Date	:2020-12-03
Test Frequency	:2422 MHz	Temp./Humi.	:23.0/58
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	48.70	0.92	49.62	54.00	-4.38
2390.00	Peak	61.78	0.92	62.70	74.00	-11.30

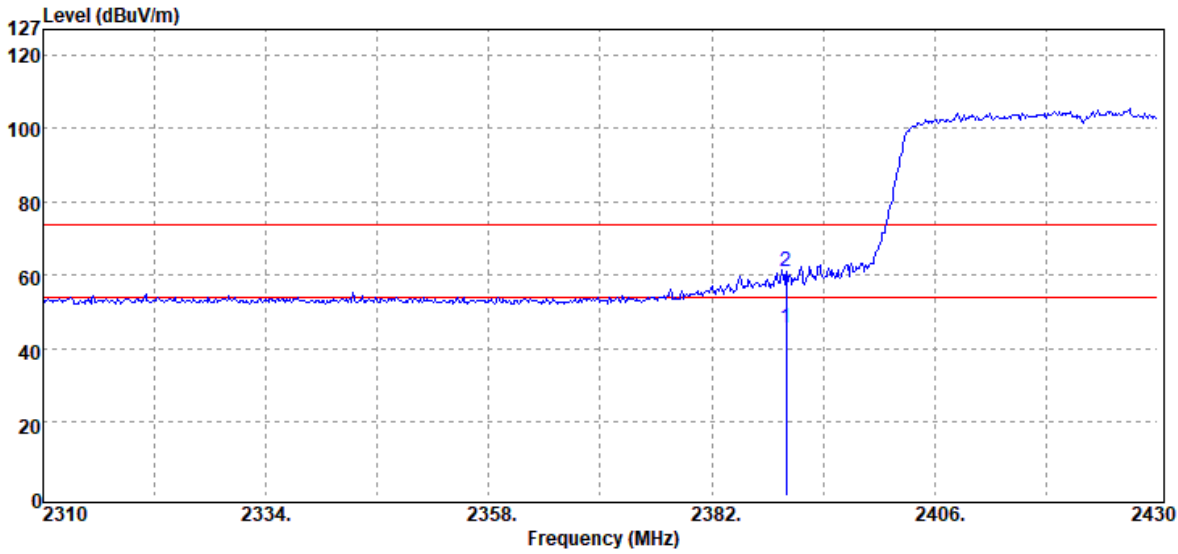
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax40 RU full
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-03
 Temp./Humi. :23.0/58
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	44.61	0.92	45.53	54.00	-8.47
2390.00	Peak	60.29	0.92	61.21	74.00	-12.79

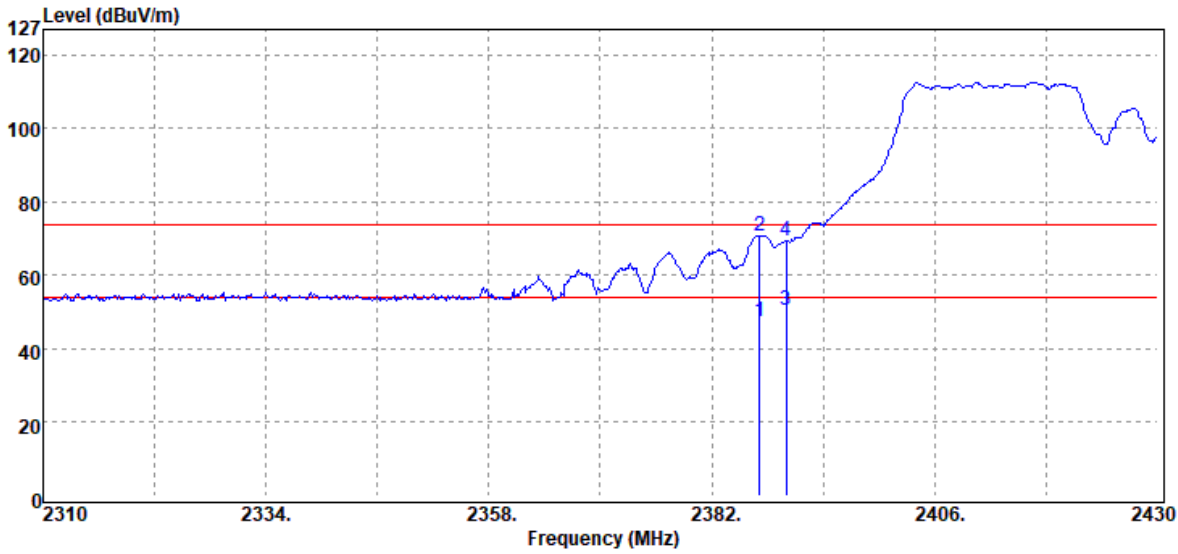
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax40 RU 242/61
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2387.16	Average	46.73	0.92	47.65	54.00	-6.35
2387.16	Peak	70.01	0.92	70.93	74.00	-3.07
2390.00	Average	49.55	0.92	50.47	54.00	-3.53
2390.00	Peak	68.50	0.92	69.42	74.00	-4.58

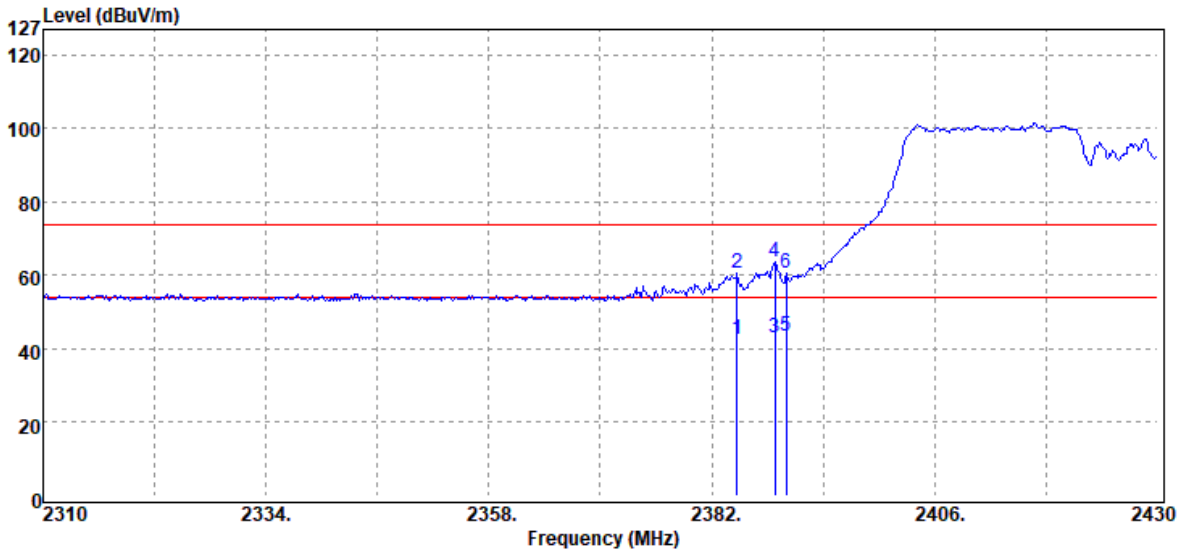
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax40 RU 242/61
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



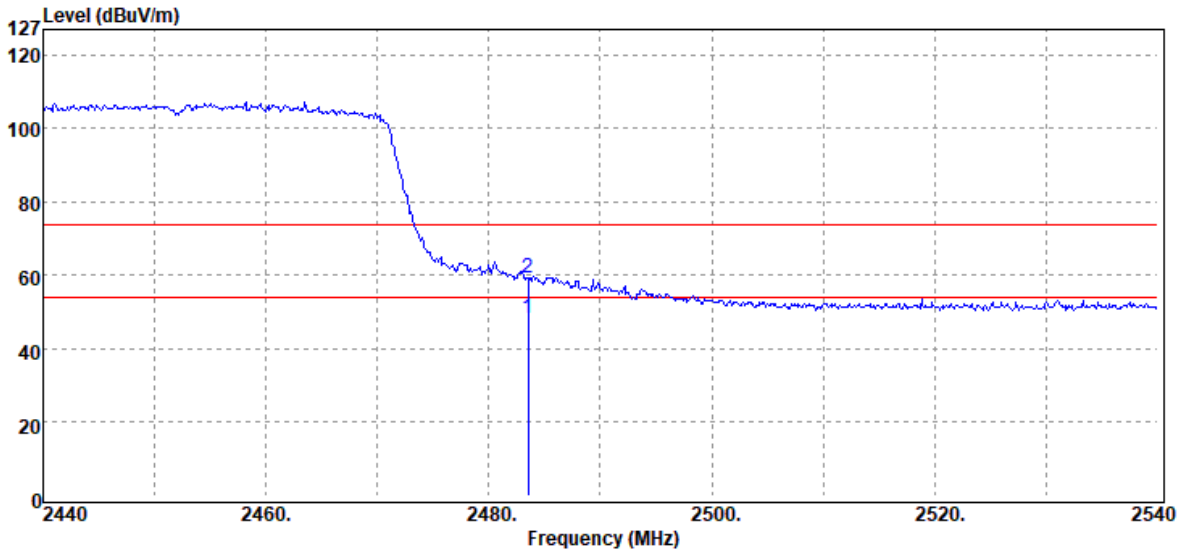
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2384.76	Average	41.56	0.93	42.49	54.00	-11.51
2384.76	Peak	59.79	0.93	60.72	74.00	-13.28
2388.84	Average	42.12	0.91	43.03	54.00	-10.97
2388.84	Peak	62.64	0.91	63.55	74.00	-10.45
2390.00	Average	42.39	0.92	43.31	54.00	-10.69
2390.00	Peak	59.86	0.92	60.78	74.00	-13.22

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Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11ax40 RU full	Test Date	:2020-12-03
Test Frequency	:2452 MHz	Temp./Humi.	:23.0/58
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



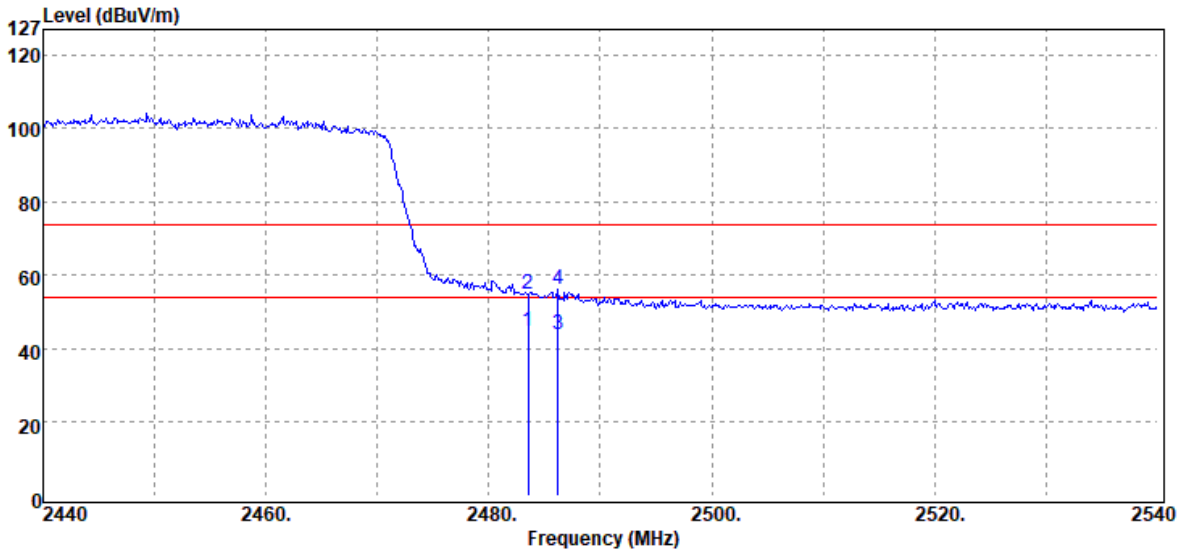
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	47.58	0.67	48.25	54.00	-5.75
2483.50	Peak	58.51	0.67	59.18	74.00	-14.82

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Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11ax40 RU full	Test Date	:2020-12-03
Test Frequency	:2452 MHz	Temp./Humi.	:23.0/58
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	43.94	0.67	44.61	54.00	-9.39
2483.50	Peak	54.10	0.67	54.77	74.00	-19.23
2486.20	Average	43.37	0.65	44.02	54.00	-9.98
2486.20	Peak	55.41	0.65	56.06	74.00	-17.94

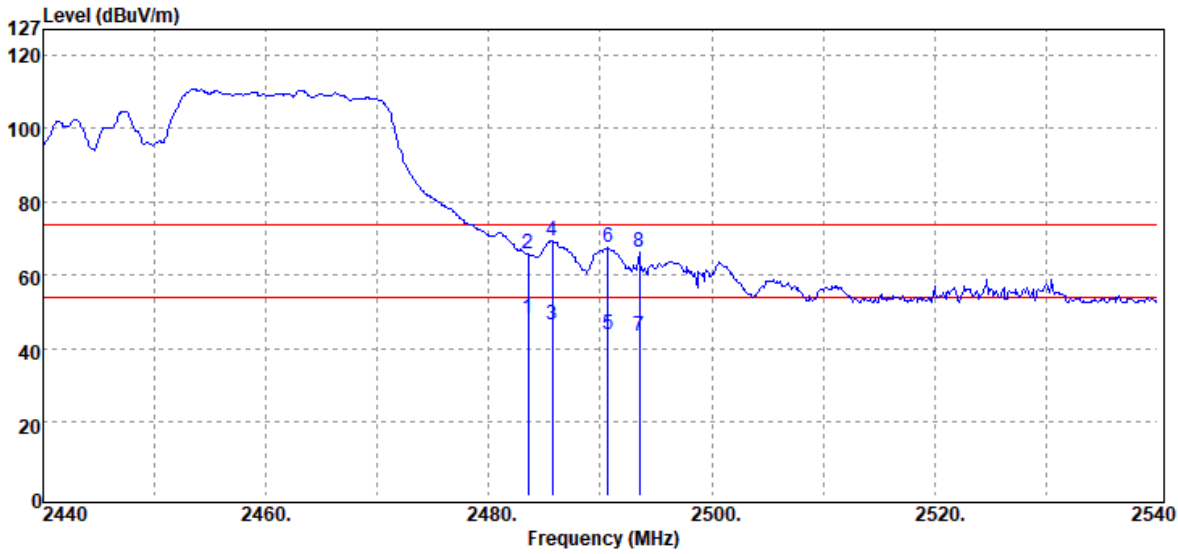
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax40 RU 242/62
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	47.72	0.67	48.39	54.00	-5.61
2483.50	Peak	65.22	0.67	65.89	74.00	-8.11
2485.70	Average	45.76	0.66	46.42	54.00	-7.58
2485.70	Peak	68.79	0.66	69.45	74.00	-4.55
2490.70	Average	43.15	0.64	43.79	54.00	-10.21
2490.70	Peak	66.91	0.64	67.55	74.00	-6.45
2493.50	Average	42.69	0.63	43.32	54.00	-10.68
2493.50	Peak	65.88	0.63	66.51	74.00	-7.49

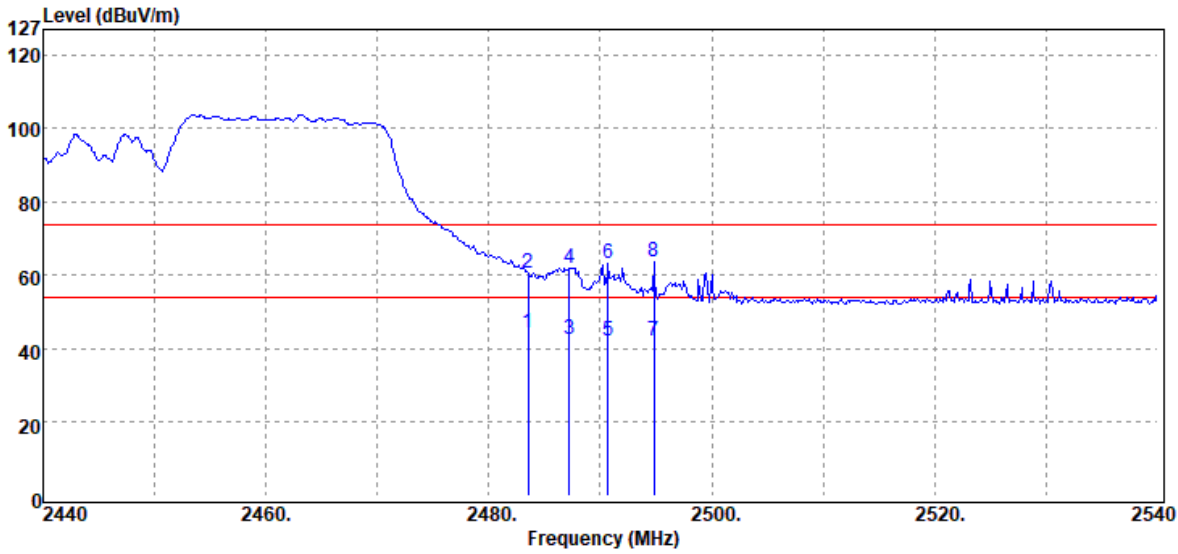
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax40 RU 242/62
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-07
 Temp./Humi. :21.1/56
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	43.66	0.67	44.33	54.00	-9.67
2483.50	Peak	59.89	0.67	60.56	74.00	-13.44
2487.20	Average	42.06	0.65	42.71	54.00	-11.29
2487.20	Peak	61.51	0.65	62.16	74.00	-11.84
2490.70	Average	41.61	0.64	42.25	54.00	-11.75
2490.70	Peak	62.73	0.64	63.37	74.00	-10.63
2494.80	Average	41.57	0.62	42.19	54.00	-11.81
2494.80	Peak	63.17	0.62	63.79	74.00	-10.21

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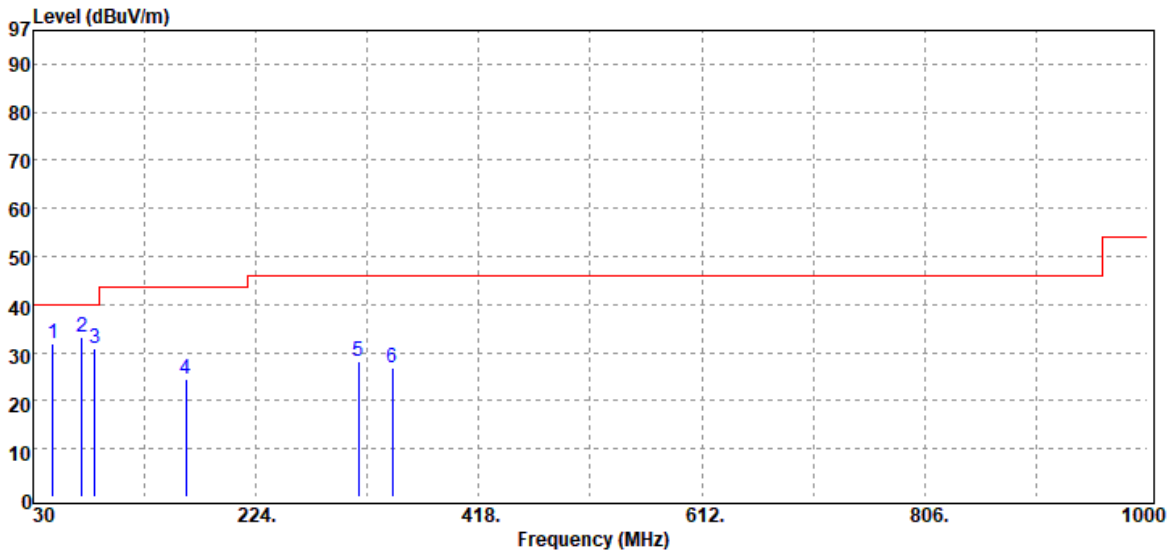
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11.7.2 Below 1GHz Worst-Case Emission:

Report Number :ER-2020-B0046
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-12
 Temp./Humi. :21.0/39
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.46	Peak	40.12	-8.12	32.00	40.00	-8.00
72.68	Peak	43.91	-10.79	33.12	40.00	-6.88
83.35	Peak	43.97	-12.95	31.02	40.00	-8.98
162.89	Peak	31.91	-7.29	24.62	43.50	-18.88
313.24	Peak	34.04	-5.89	28.15	46.00	-17.85
342.34	Peak	31.64	-4.95	26.69	46.00	-19.31

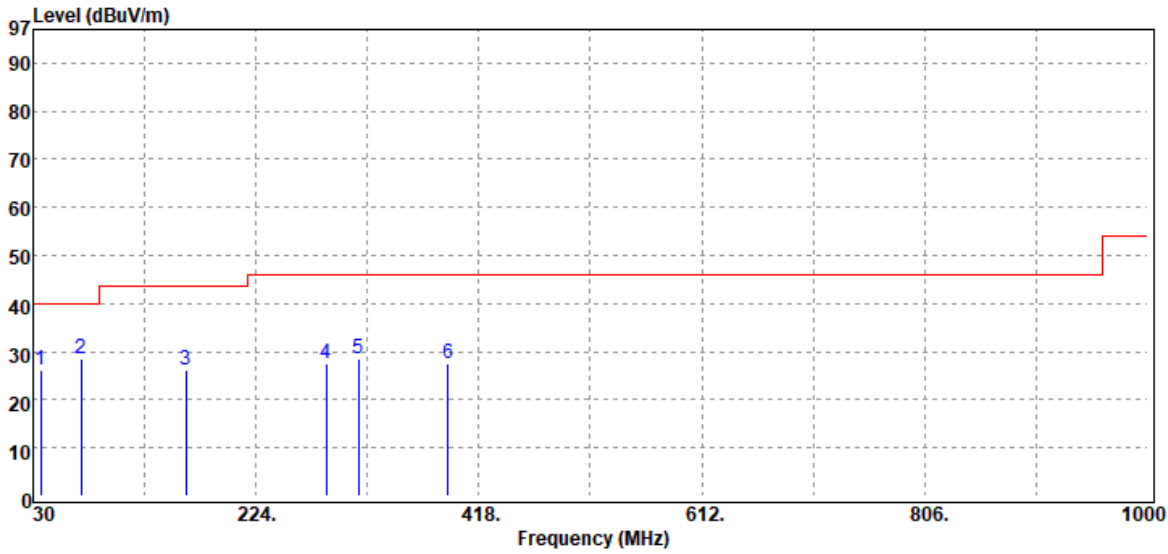
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Report Number :ER-2020-B0046
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-12
 Temp./Humi. :21.0/39
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
36.79	Peak	35.18	-8.93	26.25	40.00	-13.75
71.71	Peak	39.18	-10.62	28.56	40.00	-11.44
162.89	Peak	33.47	-7.29	26.18	43.50	-17.32
285.11	Peak	34.05	-6.41	27.64	46.00	-18.36
313.24	Peak	34.31	-5.89	28.42	46.00	-17.58
390.84	Peak	31.92	-4.43	27.49	46.00	-18.51

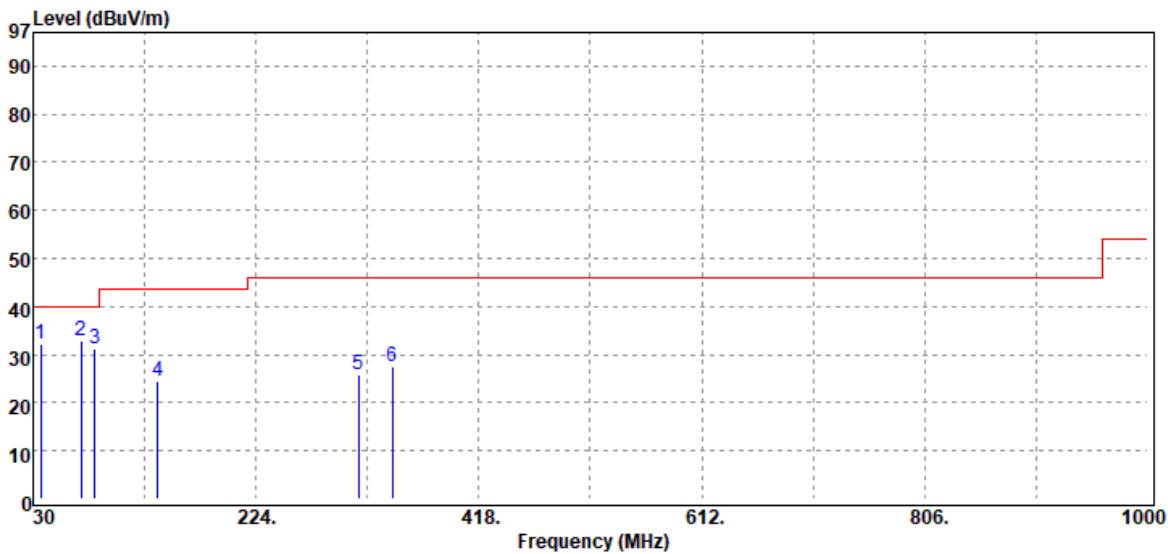
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-12
 Temp./Humi. :21.0/39
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
36.79	Peak	41.23	-8.93	32.30	40.00	-7.70
71.71	Peak	43.64	-10.62	33.02	40.00	-6.98
83.35	Peak	44.16	-12.95	31.21	40.00	-8.79
138.64	Peak	32.29	-7.71	24.58	43.50	-18.92
313.24	Peak	31.83	-5.89	25.94	46.00	-20.06
342.34	Peak	32.53	-4.95	27.58	46.00	-18.42

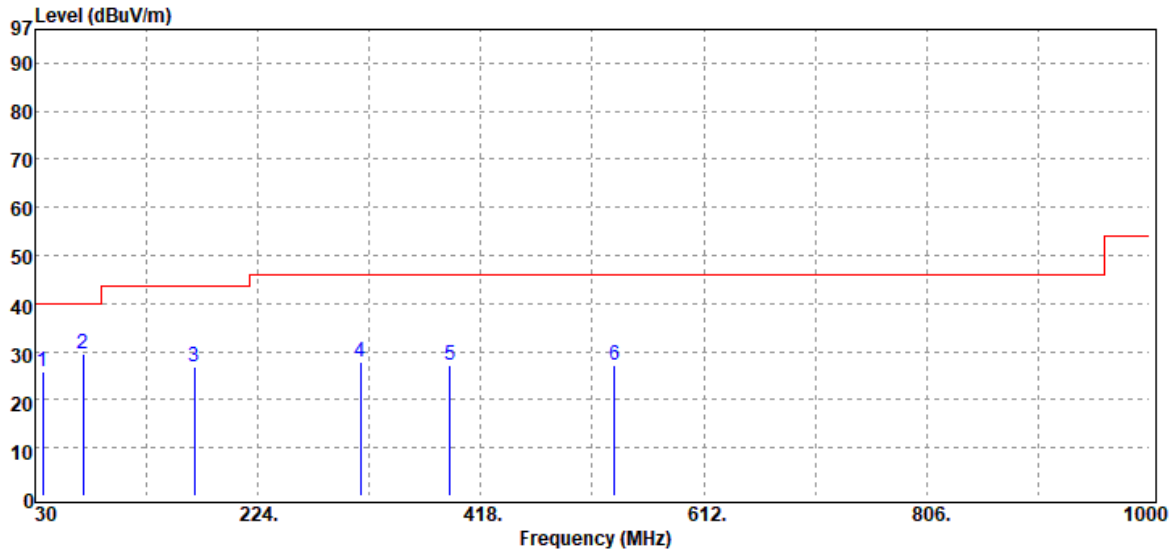
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-01-12
 Temp./Humi. :21.0/39
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
36.79	Peak	34.66	-8.93	25.73	40.00	-14.27
71.71	Peak	40.02	-10.62	29.40	40.00	-10.60
168.71	Peak	34.39	-7.64	26.75	43.50	-16.75
313.24	Peak	33.83	-5.89	27.94	46.00	-18.06
390.84	Peak	31.65	-4.43	27.22	46.00	-18.78
534.40	Peak	29.69	-2.40	27.29	46.00	-18.71

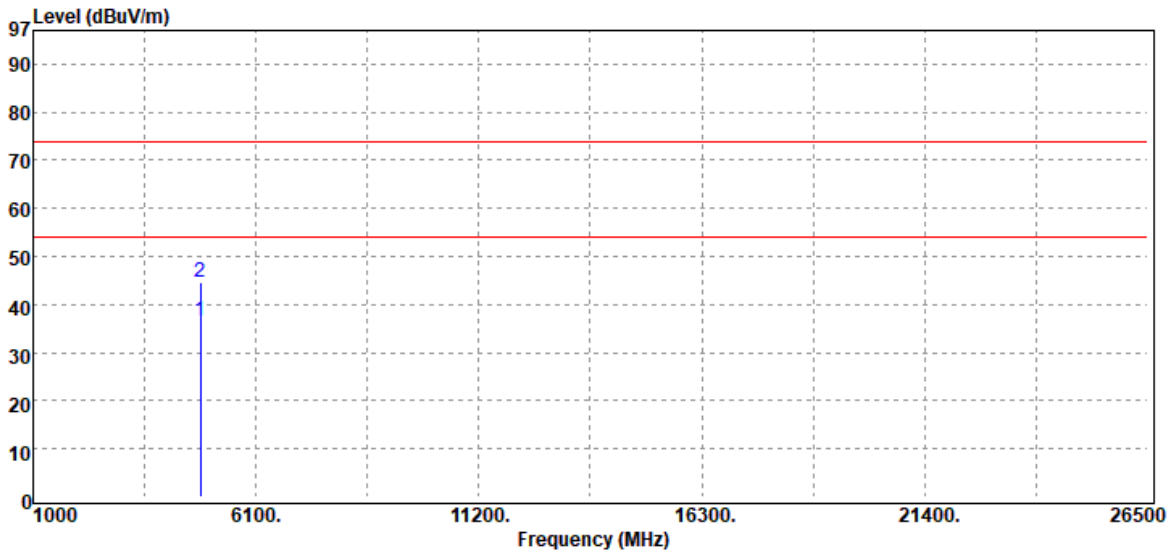
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11.7.3 Above 1GHz Emission:

Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11b	Test Date	:2021-01-12
Test Frequency	:2412 MHz	Temp./Humi.	:22.5/60
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	29.44	7.13	36.57	54.00	-17.43
4824.00	Peak	37.59	7.13	44.72	74.00	-29.28

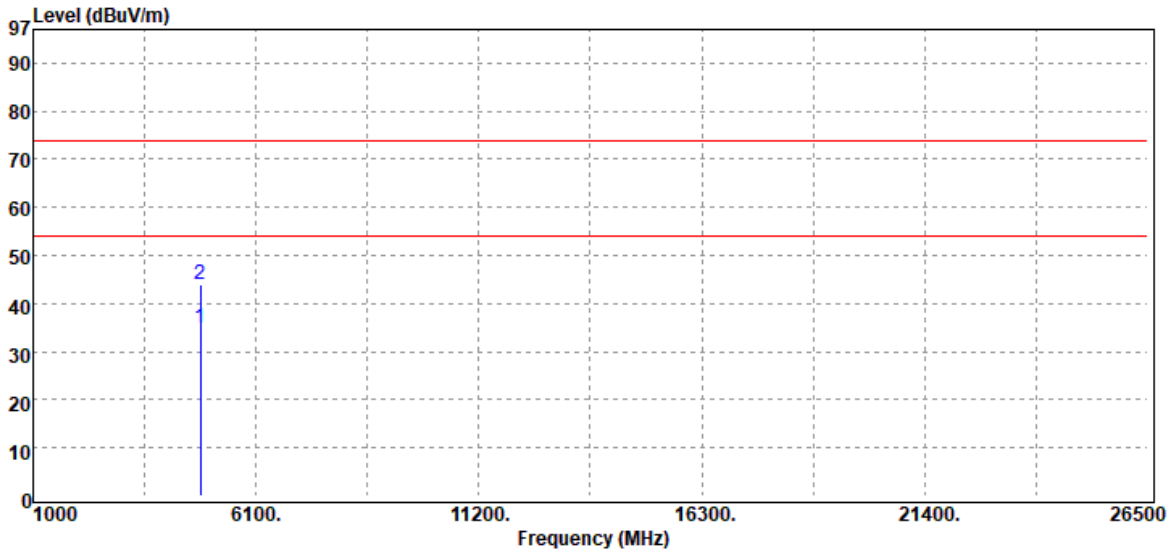
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Report Number :ER-2020-B0046
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	27.72	7.13	34.85	54.00	-19.15
4824.00	Peak	36.78	7.13	43.91	74.00	-30.09

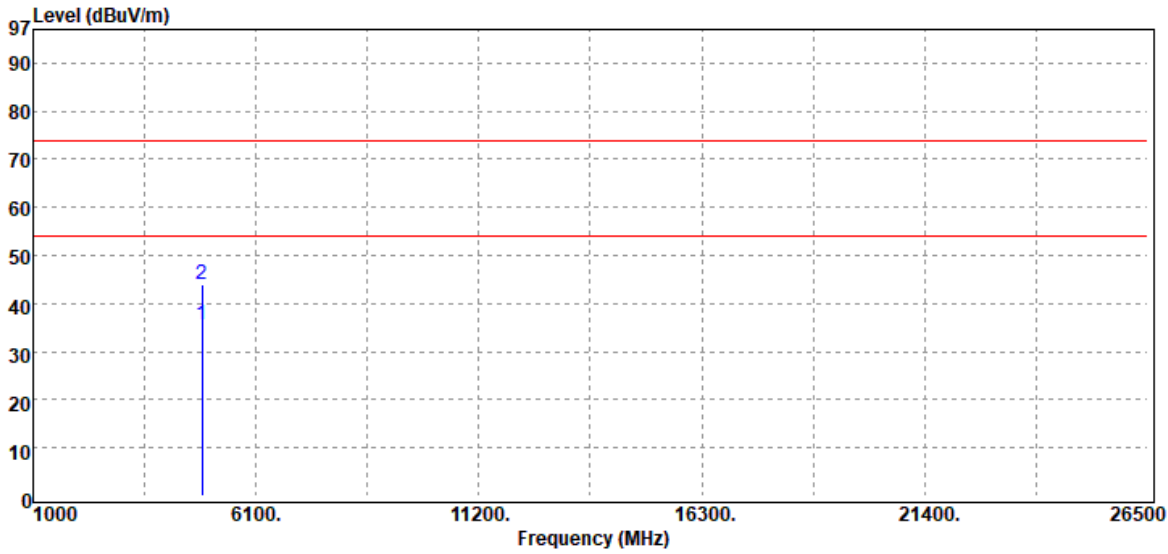
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Report Number :ER-2020-B0046
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	27.95	7.51	35.46	54.00	-18.54
4874.00	Peak	36.59	7.51	44.10	74.00	-29.90

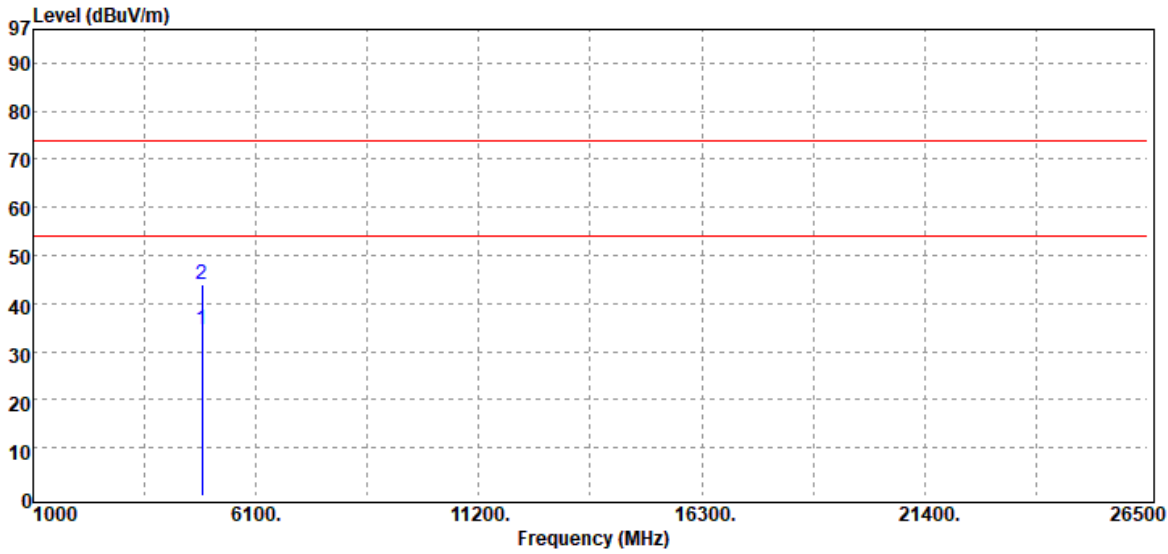
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Report Number :ER-2020-B0046
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	27.12	7.51	34.63	54.00	-19.37
4874.00	Peak	36.30	7.51	43.81	74.00	-30.19

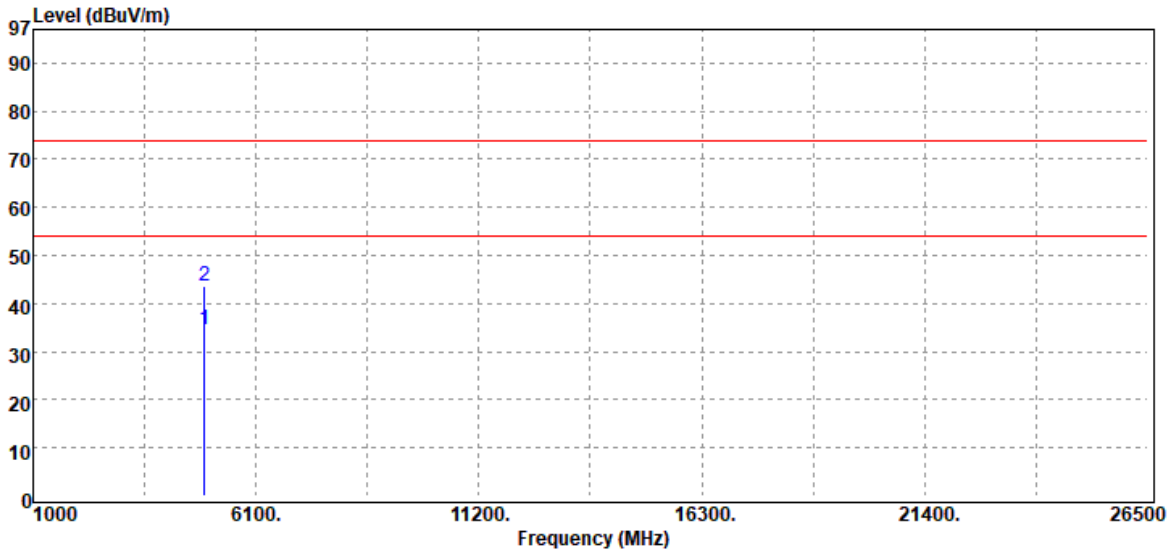
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Report Number :ER-2020-B0046
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.86	7.84	34.70	54.00	-19.30
4924.00	Peak	35.80	7.84	43.64	74.00	-30.36

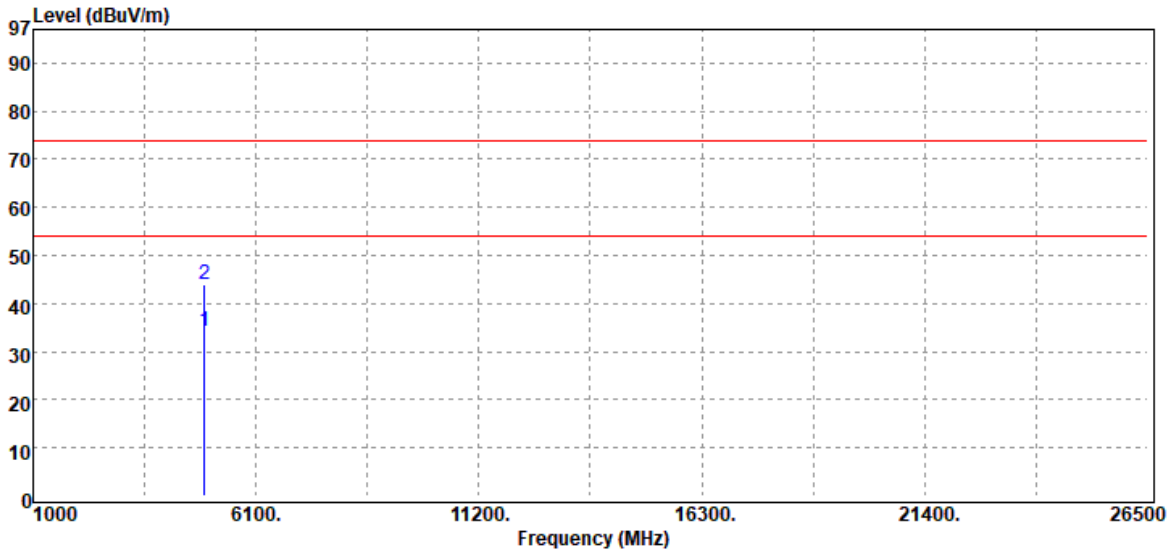
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Report Number :ER-2020-B0046
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.29	7.84	34.13	54.00	-19.87
4924.00	Peak	35.97	7.84	43.81	74.00	-30.19

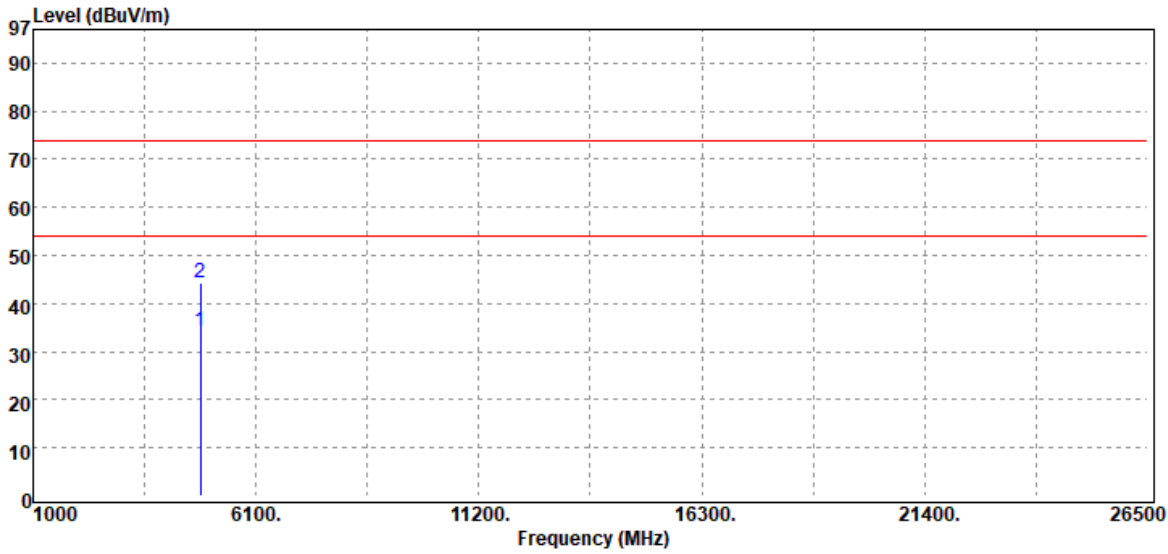
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Report Number :ER-2020-B0046
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	26.94	7.13	34.07	54.00	-19.93
4824.00	Peak	37.08	7.13	44.21	74.00	-29.79

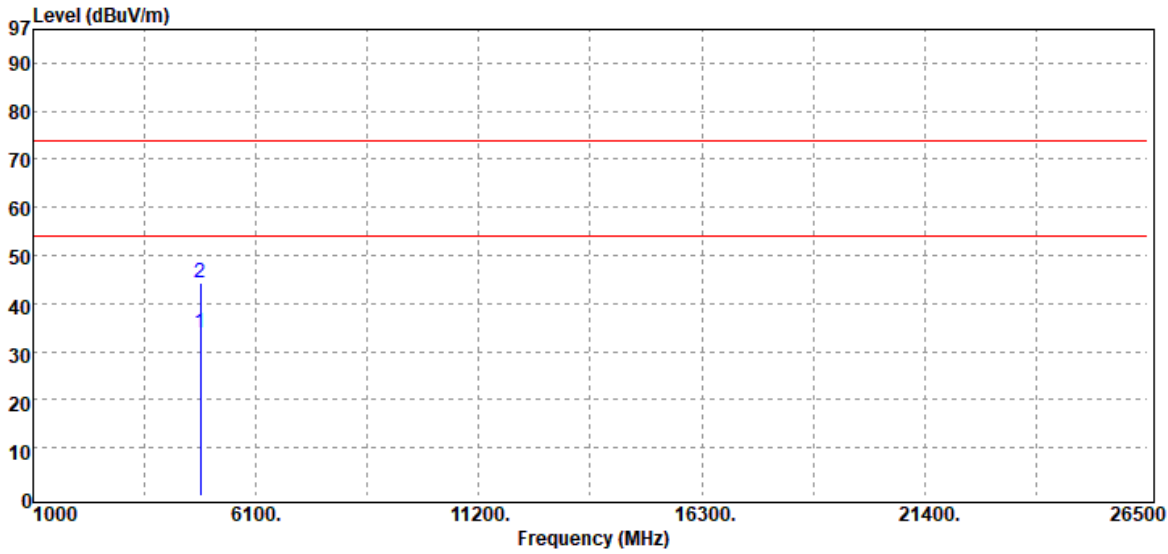
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Report Number :ER-2020-B0046
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	26.93	7.13	34.06	54.00	-19.94
4824.00	Peak	37.07	7.13	44.20	74.00	-29.80

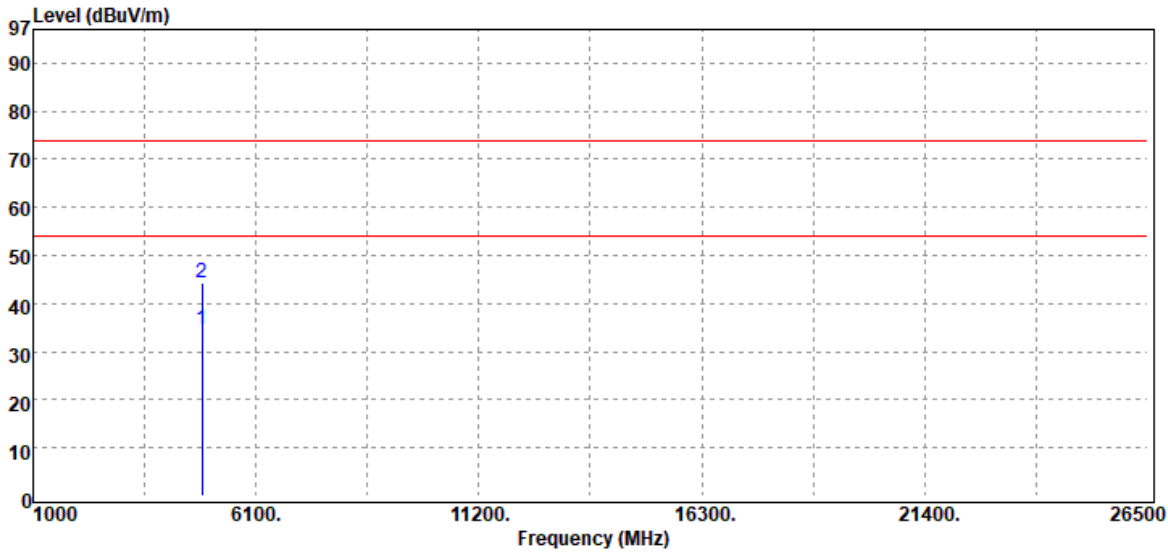
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Report Number :ER-2020-B0046
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.93	7.51	34.44	54.00	-19.56
4874.00	Peak	36.79	7.51	44.30	74.00	-29.70

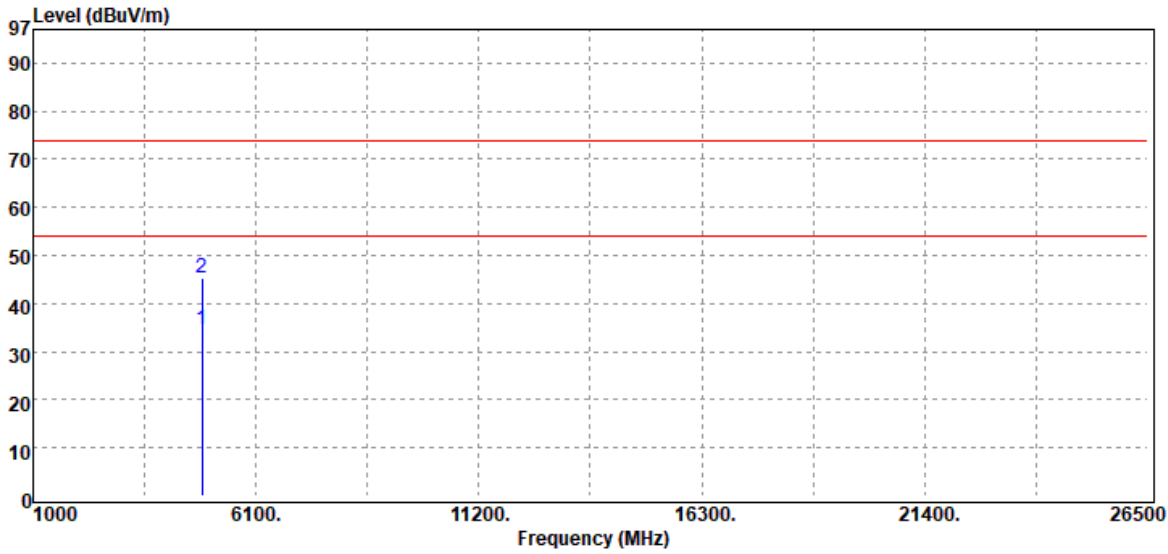
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Report Number :ER-2020-B0046
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.89	7.51	34.40	54.00	-19.60
4874.00	Peak	37.85	7.51	45.36	74.00	-28.64

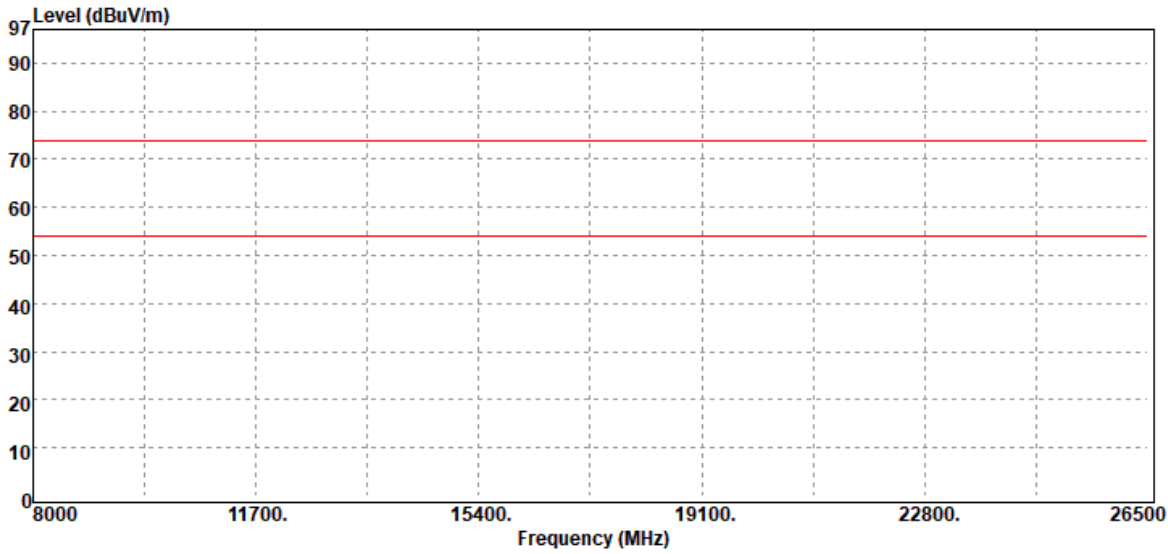
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Report Number :ER-2020-B0046
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Peak	36.93	7.84	44.77	74.00	-29.23

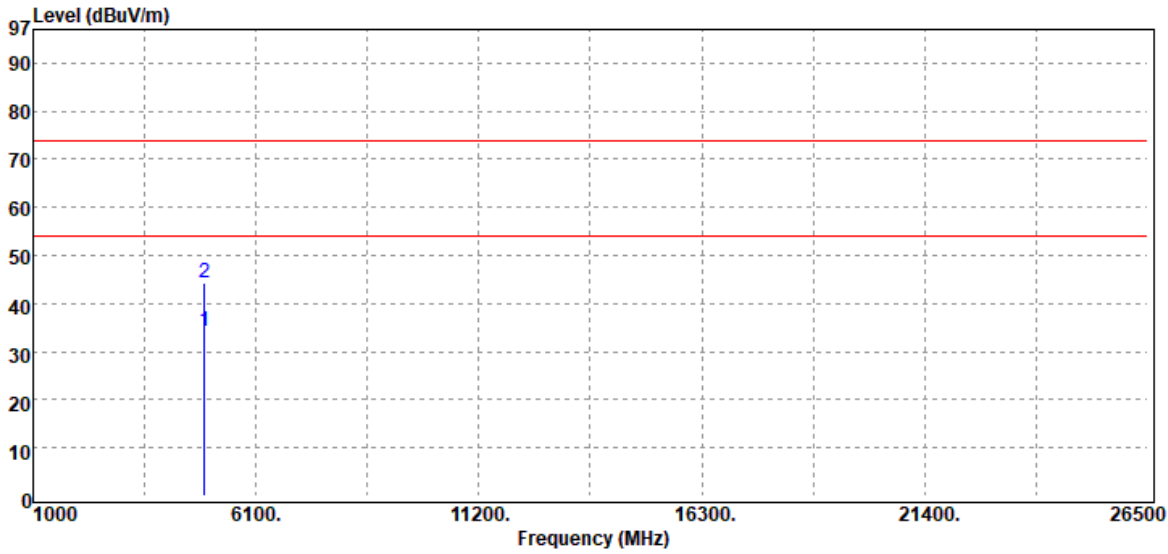
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Report Number :ER-2020-B0046
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.27	7.84	34.11	54.00	-19.89
4924.00	Peak	36.45	7.84	44.29	74.00	-29.71

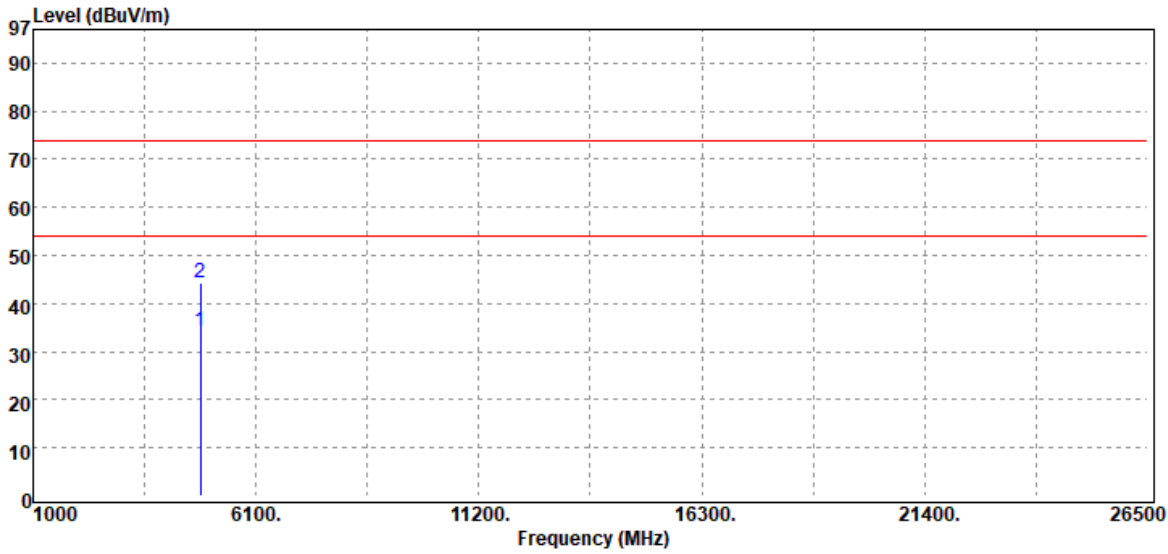
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Report Number :ER-2020-B0046
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	27.05	7.13	34.18	54.00	-19.82
4824.00	Peak	37.21	7.13	44.34	74.00	-29.66

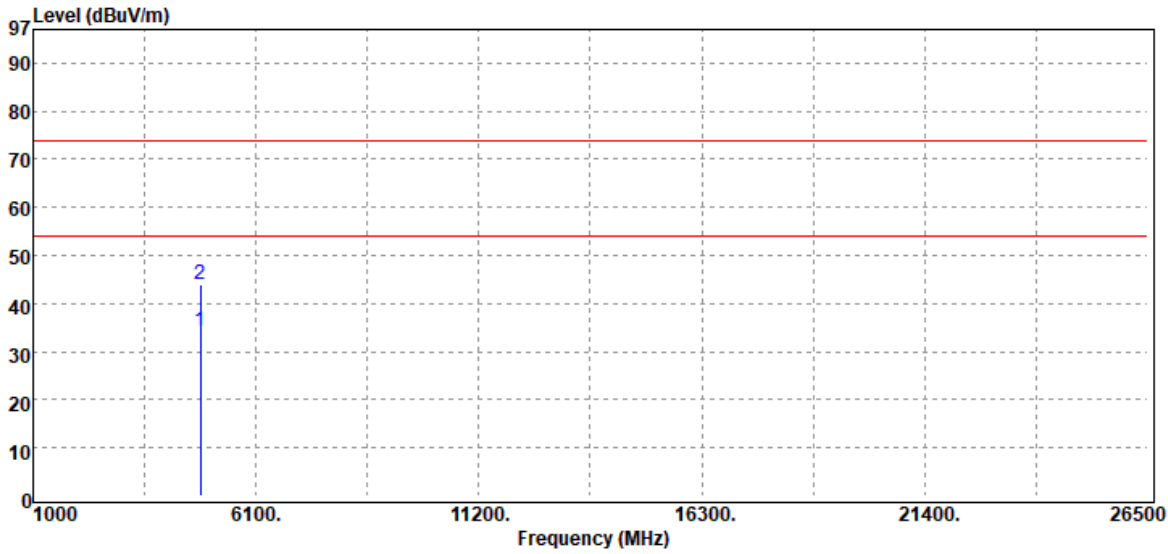
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Report Number :ER-2020-B0046
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	26.99	7.13	34.12	54.00	-19.88
4824.00	Peak	36.87	7.13	44.00	74.00	-30.00

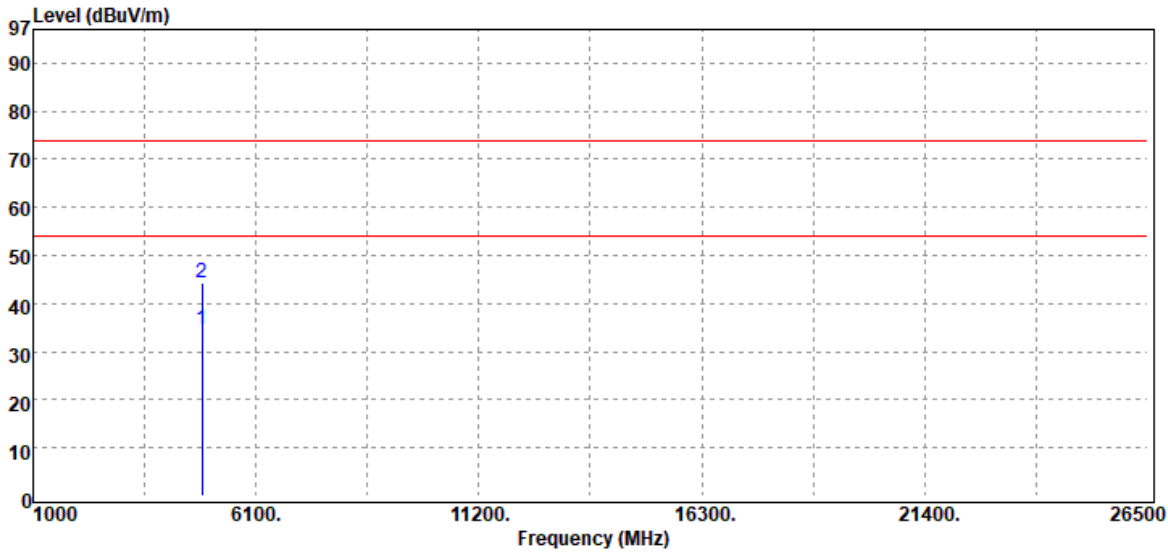
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Report Number :ER-2020-B0046
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	27.04	7.51	34.55	54.00	-19.45
4874.00	Peak	36.71	7.51	44.22	74.00	-29.78

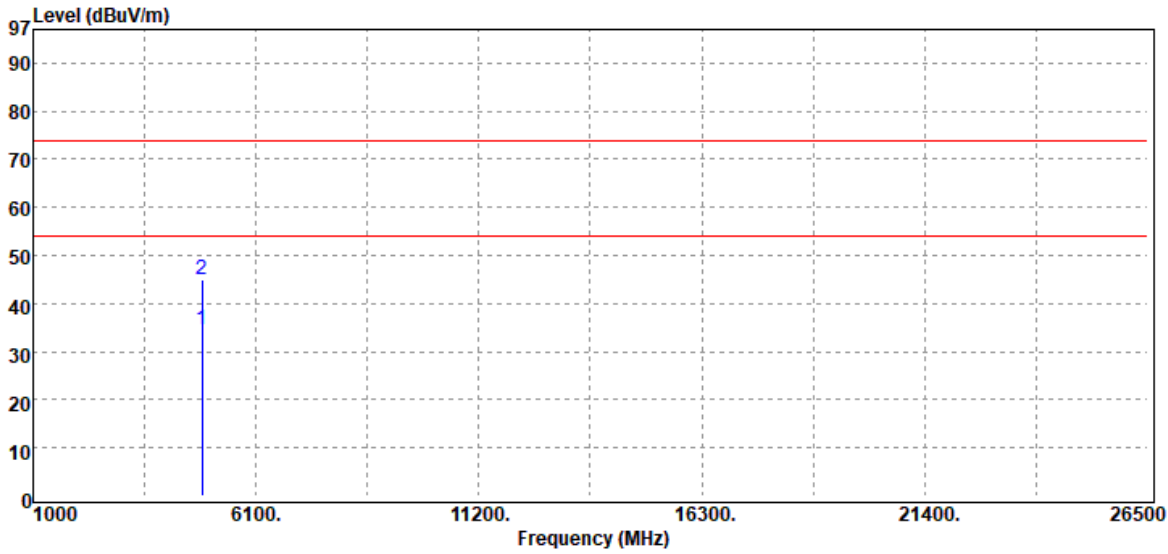
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Report Number :ER-2020-B0046
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	27.03	7.51	34.54	54.00	-19.46
4874.00	Peak	37.56	7.51	45.07	74.00	-28.93

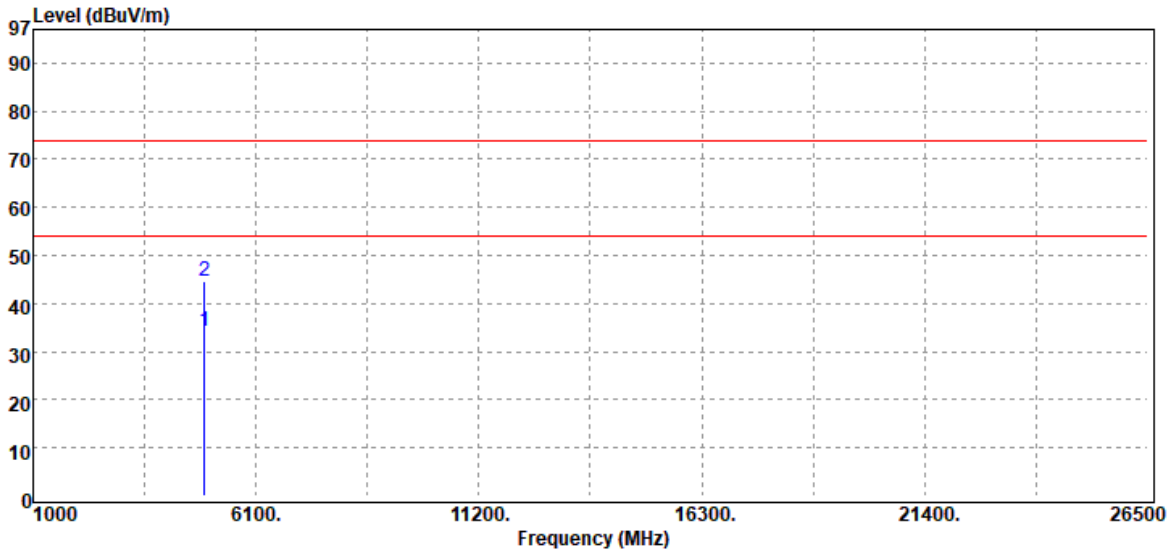
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Report Number :ER-2020-B0046
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.41	7.84	34.25	54.00	-19.75
4924.00	Peak	36.85	7.84	44.69	74.00	-29.31

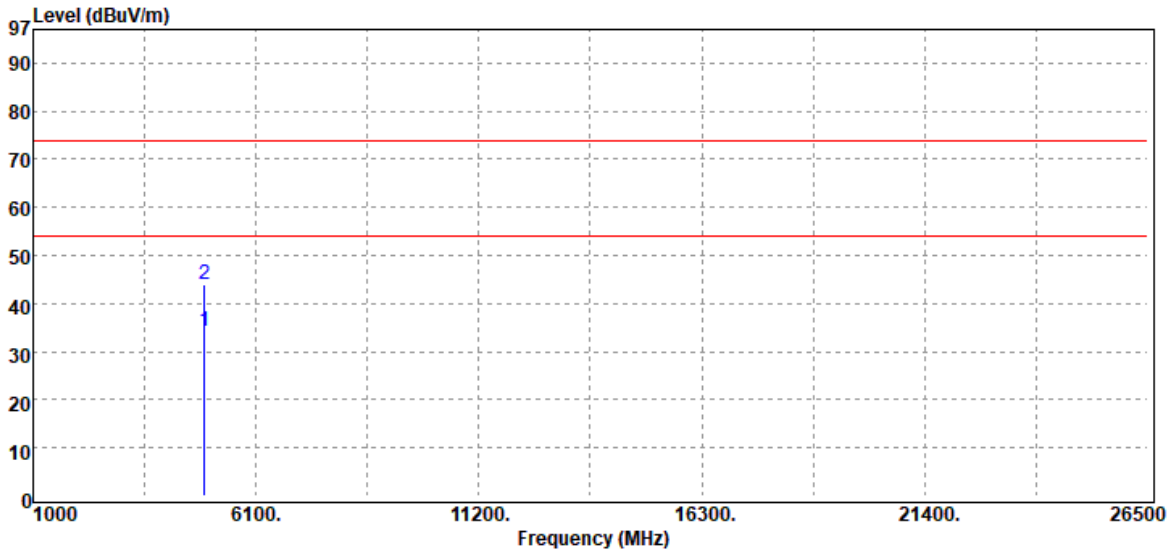
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Report Number :ER-2020-B0046
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.33	7.84	34.17	54.00	-19.83
4924.00	Peak	36.22	7.84	44.06	74.00	-29.94

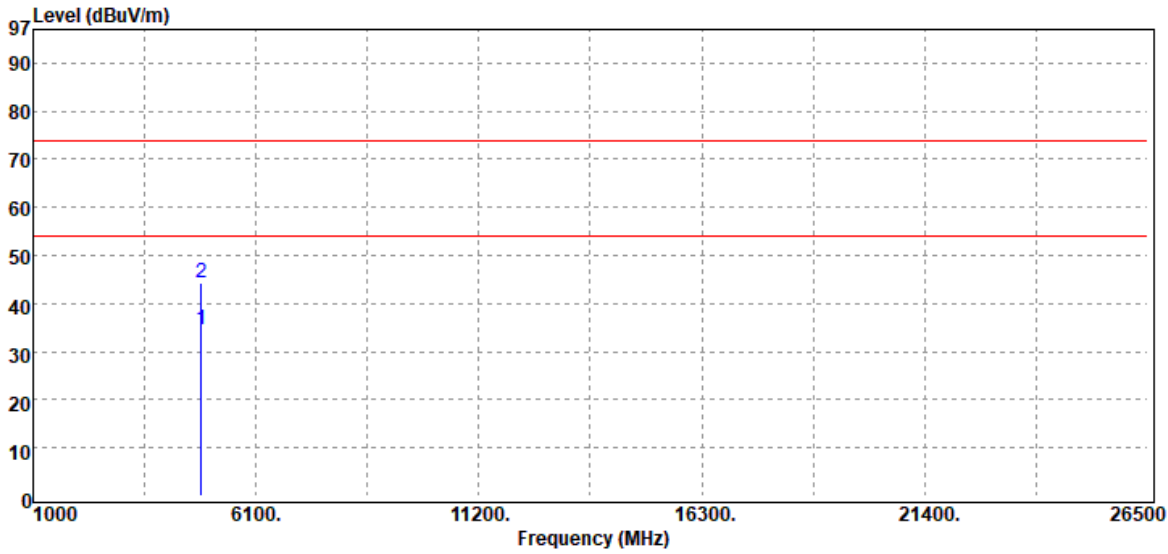
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Report Number :ER-2020-B0046
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	27.51	7.12	34.63	54.00	-19.37
4844.00	Peak	37.14	7.12	44.26	74.00	-29.74

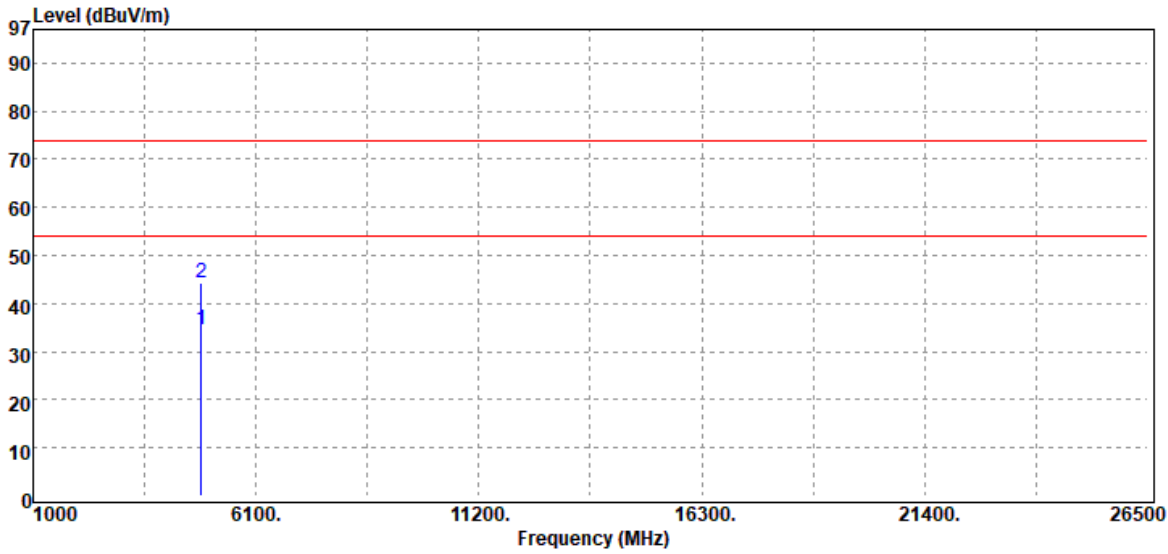
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Report Number :ER-2020-B0046
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	27.38	7.12	34.50	54.00	-19.50
4844.00	Peak	37.20	7.12	44.32	74.00	-29.68

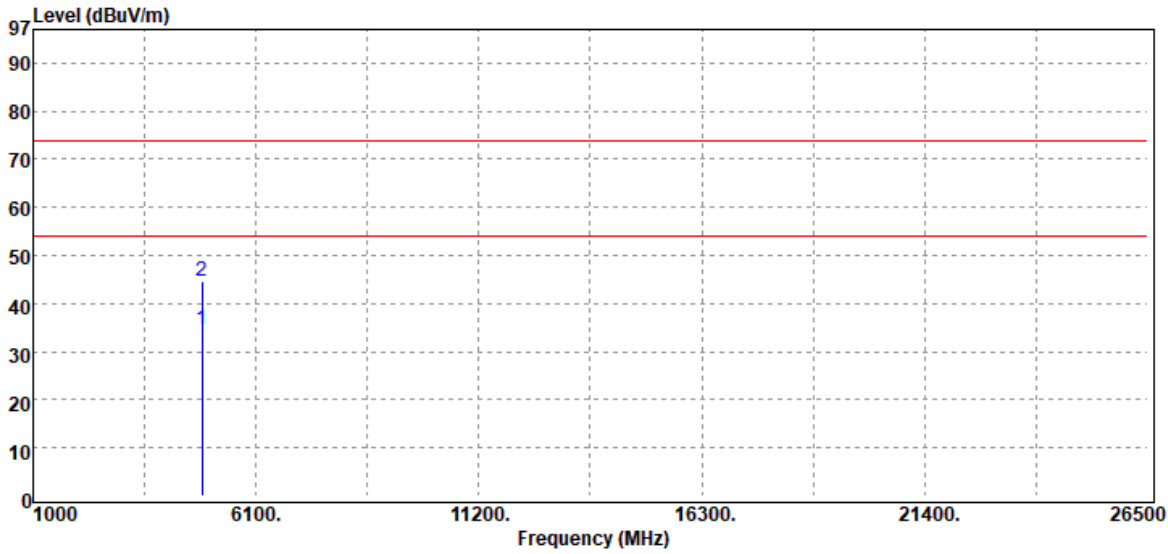
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Report Number :ER-2020-B0046
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	27.03	7.51	34.54	54.00	-19.46
4874.00	Peak	36.99	7.51	44.50	74.00	-29.50

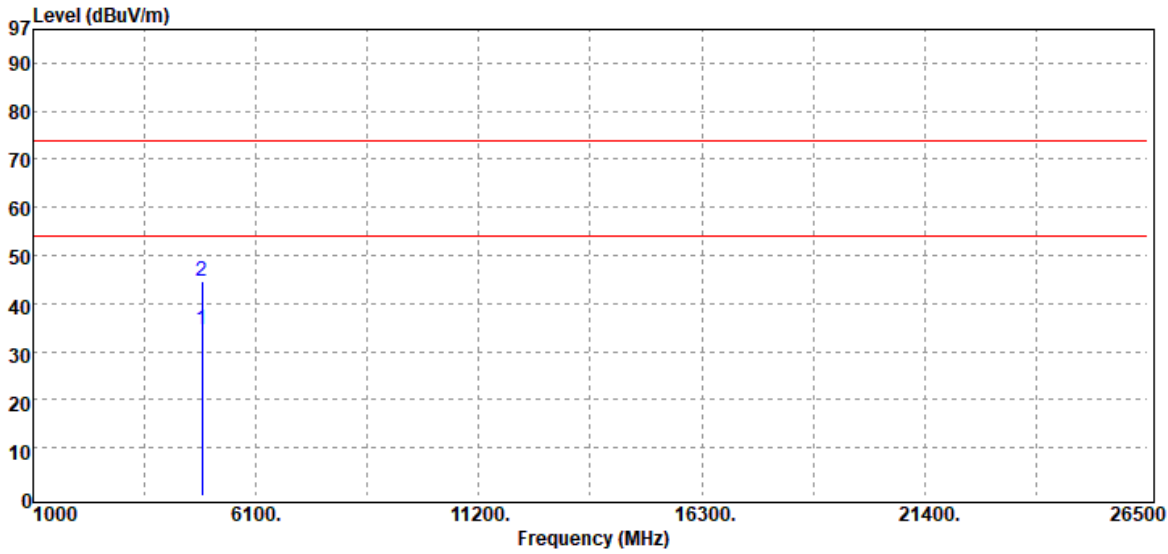
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Report Number :ER-2020-B0046
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.91	7.51	34.42	54.00	-19.58
4874.00	Peak	36.96	7.51	44.47	74.00	-29.53

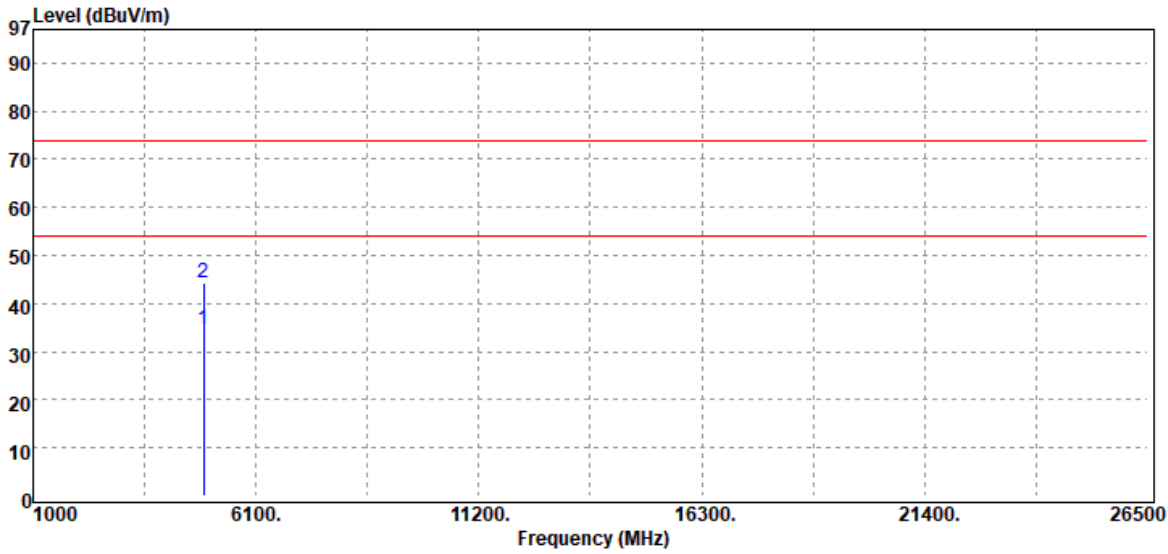
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Report Number :ER-2020-B0046
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	Average	26.56	7.93	34.49	54.00	-19.51
4904.00	Peak	36.31	7.93	44.24	74.00	-29.76

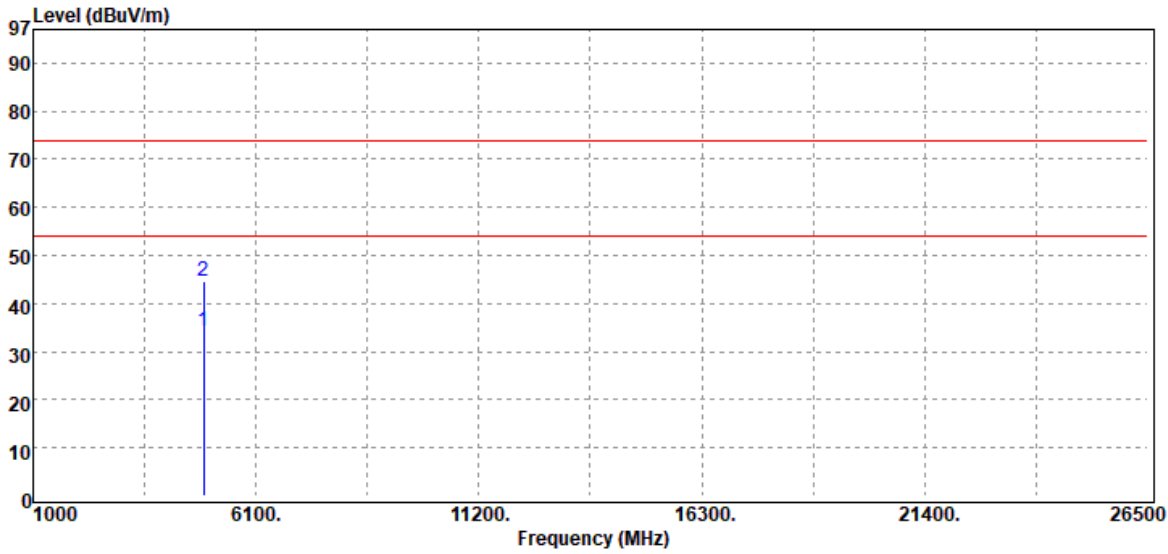
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Report Number :ER-2020-B0046
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :22.5/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



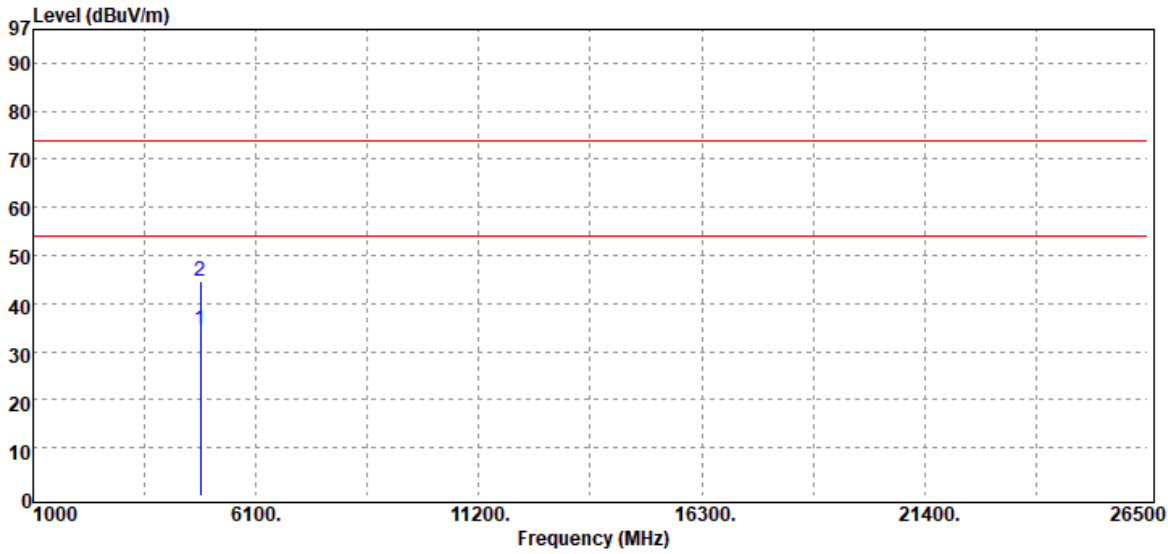
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	Average	26.46	7.93	34.39	54.00	-19.61
4904.00	Peak	36.71	7.93	44.64	74.00	-29.36

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Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11ax20 RU full	Test Date	:2020-12-04
Test Frequency	:2412 MHz	Temp./Humi.	:24.2/68
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



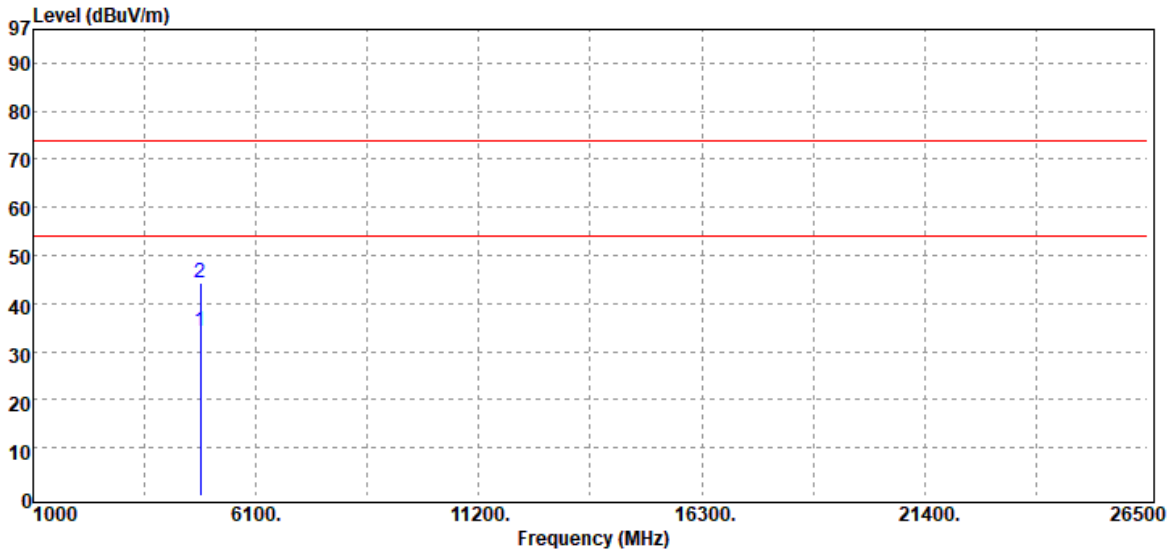
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	27.31	7.13	34.44	54.00	-19.56
4824.00	Peak	37.37	7.13	44.50	74.00	-29.50

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Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11ax20 RU full	Test Date	:2020-12-04
Test Frequency	:2412 MHz	Temp./Humi.	:24.2/68
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	27.04	7.13	34.17	54.00	-19.83
4824.00	Peak	37.09	7.13	44.22	74.00	-29.78

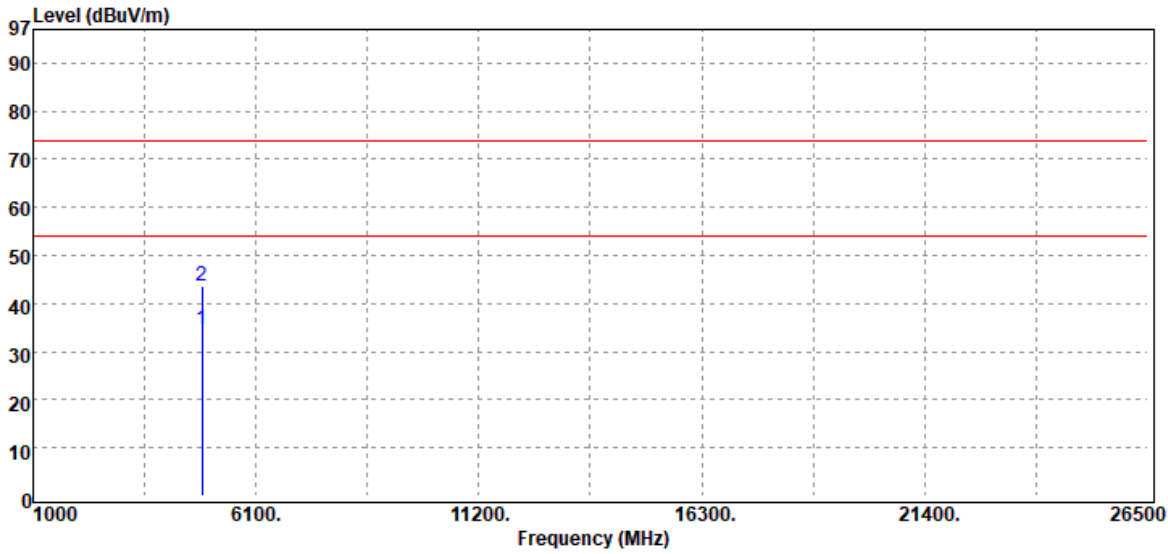
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU full
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :24.2/68
 Antenna Pol. :VERTICAL
 Engineer :Ricky



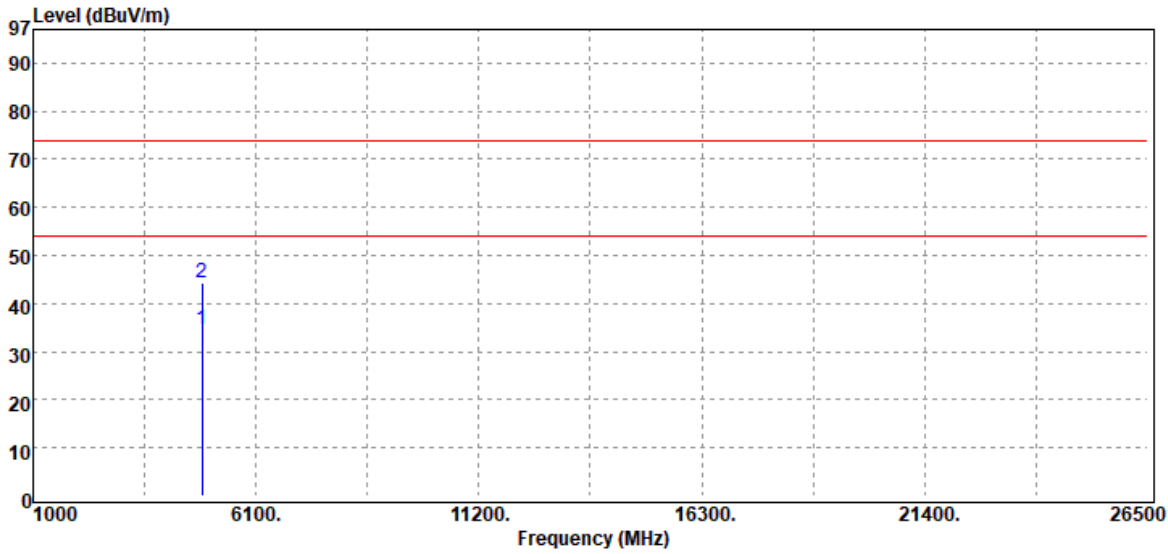
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	27.14	7.51	34.65	54.00	-19.35
4874.00	Peak	36.19	7.51	43.70	74.00	-30.30

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Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11ax20 RU full	Test Date	:2020-12-04
Test Frequency	:2437 MHz	Temp./Humi.	:24.2/68
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.93	7.51	34.44	54.00	-19.56
4874.00	Peak	36.73	7.51	44.24	74.00	-29.76

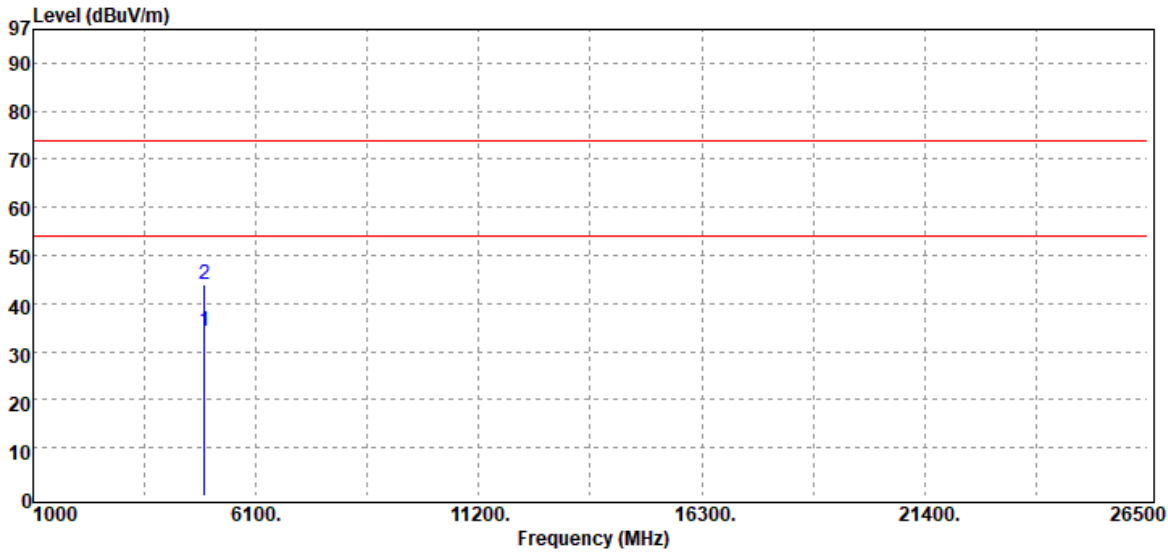
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax20 RU full
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :24.2/68
 Antenna Pol. :VERTICAL
 Engineer :Ricky



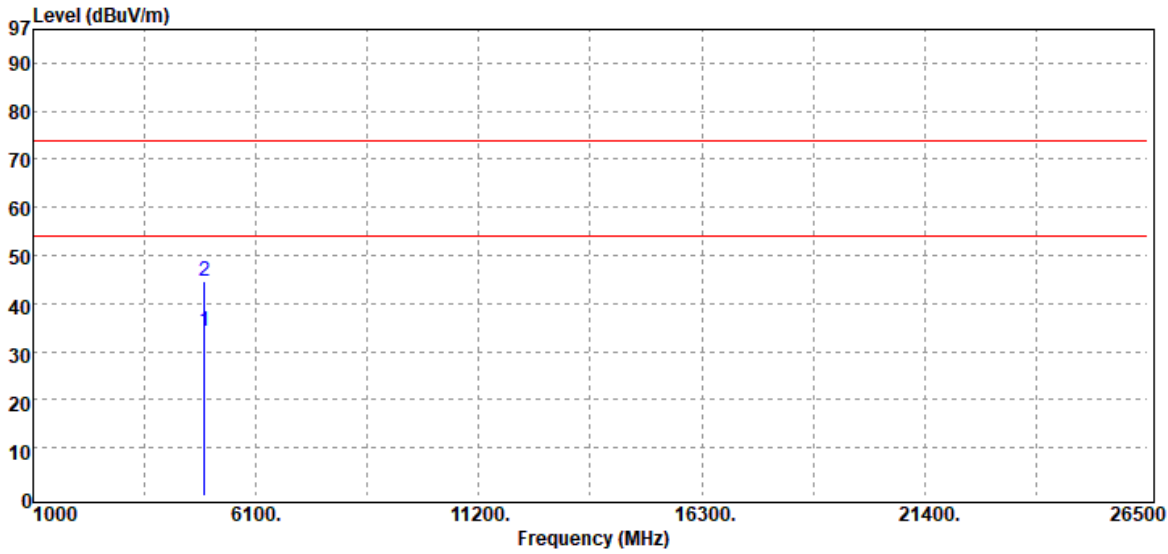
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.42	7.84	34.26	54.00	-19.74
4924.00	Peak	36.14	7.84	43.98	74.00	-30.02

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Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11ax20 RU full	Test Date	:2020-12-04
Test Frequency	:2462 MHz	Temp./Humi.	:24.2/68
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.28	7.84	34.12	54.00	-19.88
4924.00	Peak	36.81	7.84	44.65	74.00	-29.35

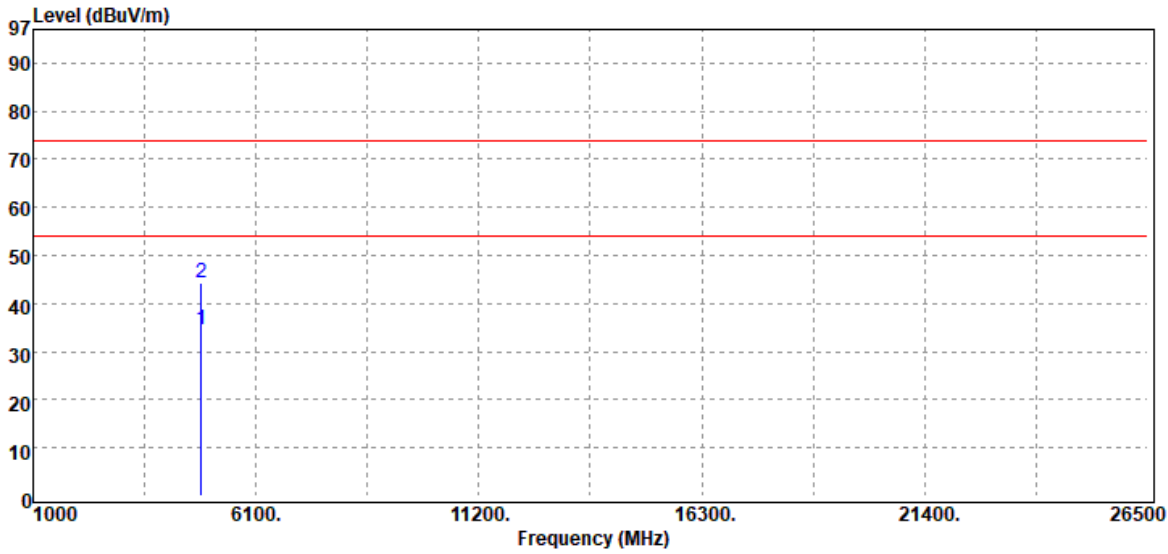
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax40 RU full
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :24.2/68
 Antenna Pol. :VERTICAL
 Engineer :Ricky



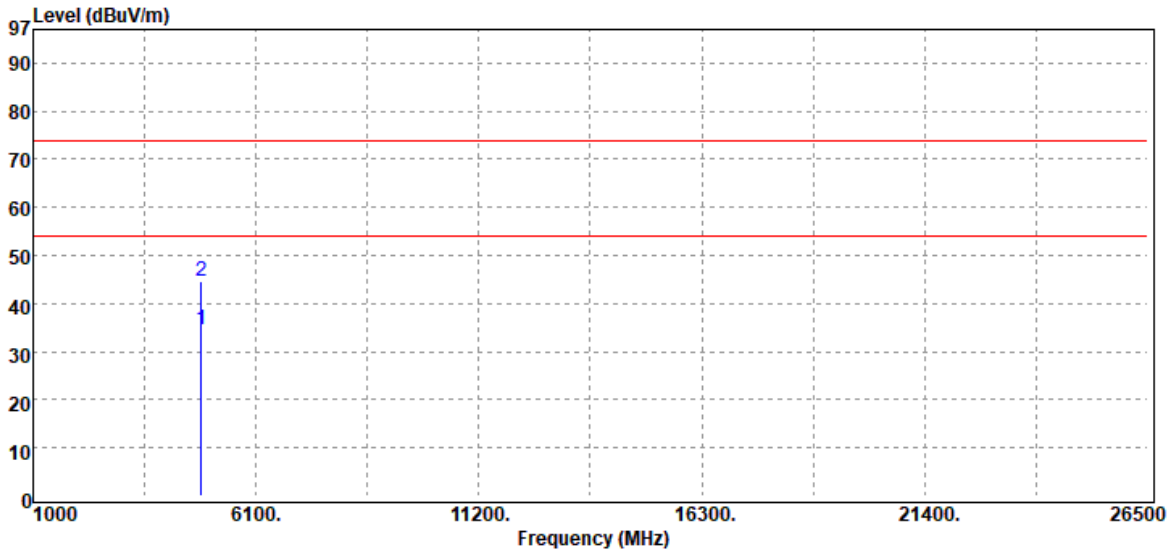
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	27.47	7.12	34.59	54.00	-19.41
4844.00	Peak	37.19	7.12	44.31	74.00	-29.69

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Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11ax40 RU full	Test Date	:2020-12-04
Test Frequency	:2422 MHz	Temp./Humi.	:24.2/68
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	27.46	7.12	34.58	54.00	-19.42
4844.00	Peak	37.60	7.12	44.72	74.00	-29.28

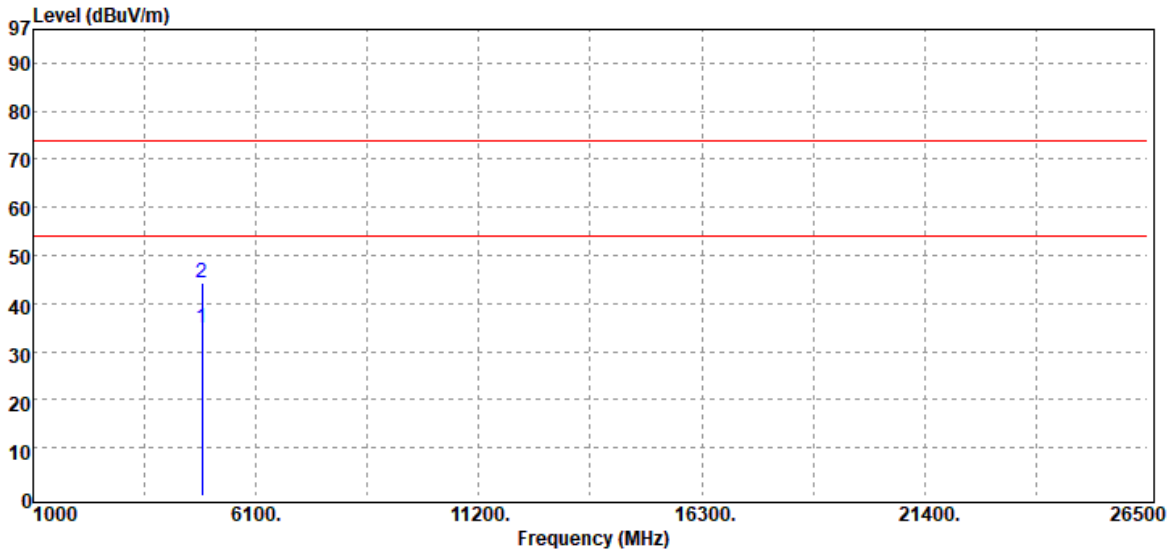
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :24.2/68
 Antenna Pol. :VERTICAL
 Engineer :Ricky



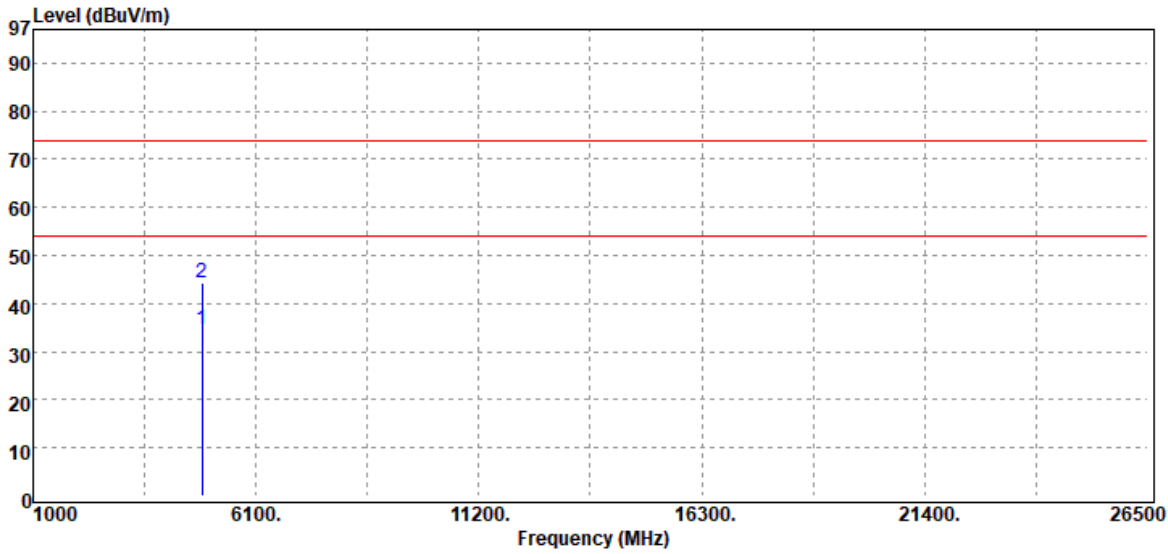
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	27.23	7.51	34.74	54.00	-19.26
4874.00	Peak	36.78	7.51	44.29	74.00	-29.71

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Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11ax40 RU full	Test Date	:2020-12-04
Test Frequency	:2437 MHz	Temp./Humi.	:24.2/68
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	27.09	7.51	34.60	54.00	-19.40
4874.00	Peak	36.79	7.51	44.30	74.00	-29.70

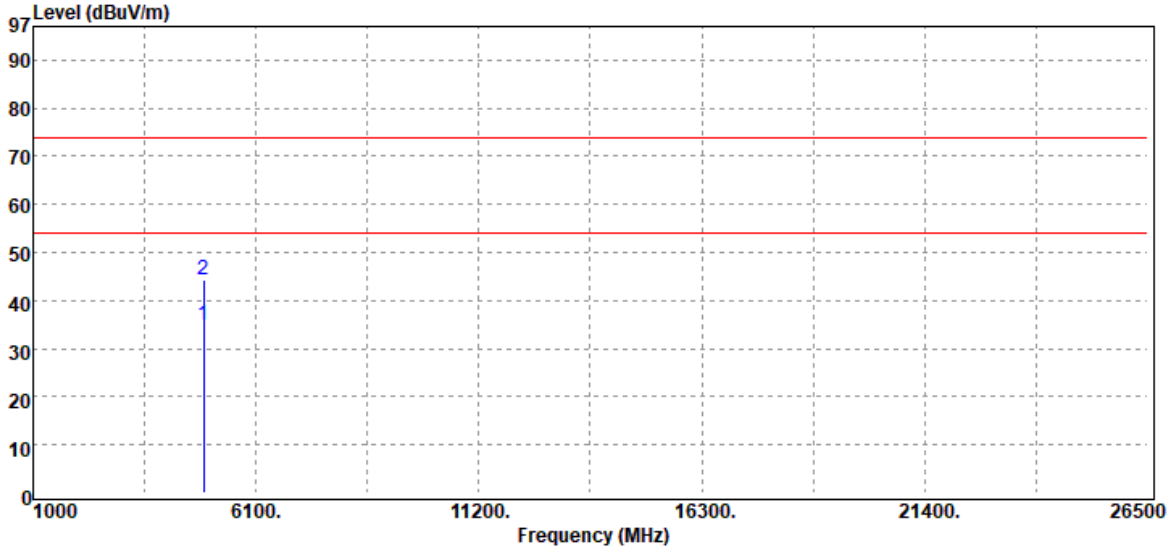
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Report Number :ER-2020-B0046
 Operation Mode :802.11ax40 RU full
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2020-12-04
 Temp./Humi. :24.2/68
 Antenna Pol. :VERTICAL
 Engineer :Ricky



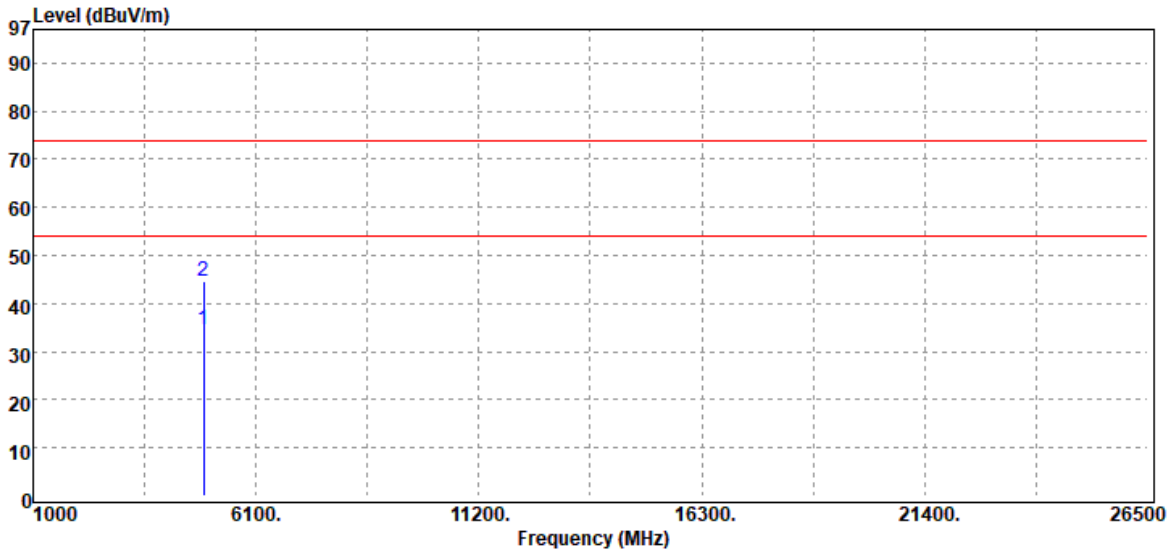
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	Average	26.81	7.93	34.74	54.00	-19.26
4904.00	Peak	36.44	7.93	44.37	74.00	-29.63

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Report Number	:ER-2020-B0046	Test Site	:SAC III Chamber
Operation Mode	:802.11ax40 RU full	Test Date	:2020-12-04
Test Frequency	:2452 MHz	Temp./Humi.	:24.2/68
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	Average	26.65	7.93	34.58	54.00	-19.42
4904.00	Peak	36.87	7.93	44.80	74.00	-29.20

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

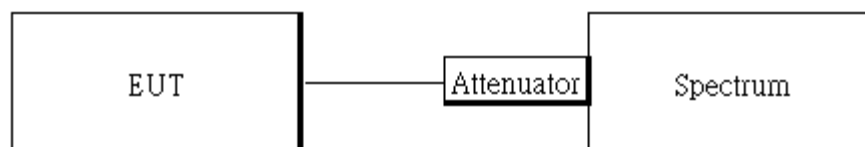
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

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.

12.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021
DC Power Supply	Agilent	E3640A	KR93300208	08/19/2020	08/18/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

12.3 Test Set-up



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12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. 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.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note:

For the test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

12.5 As per FCC KDB 662911 D01

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad \text{DirectionalGain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

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where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 1/20 \cdot 10G_k$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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12.6 Power spectral density

POWER DENSITY 802.11b				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-3.13	-3.13	8.00	PASS
2437	-3.05	-3.05	8.00	PASS
2462	-3.89	-3.89	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-5.65	-5.65	8.00	PASS
2437	-5.8	-5.80	8.00	PASS
2462	-4.63	-4.63	8.00	PASS

POWER DENSITY 802.11n HT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-4.65	-4.75	-1.69	8.00	PASS
2437	-3.62	-4.67	-1.10	8.00	PASS
2462	-4.1	-5.54	-1.75	8.00	PASS

POWER DENSITY 802.11ax HE20						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	full	-7.05	-8.35	-4.64	8.00	PASS
	26/0	-0.09	-0.94	2.52	8.00	PASS
	52/37	-2.08	-3.14	0.43	8.00	PASS
	106/53	-4.54	-5.37	-1.92	8.00	PASS
2437	full	-6.76	-7.69	-4.19	8.00	PASS
2462	full	-6.58	-8.64	-4.48	8.00	PASS
	26/8	-0.3	-1.17	2.30	8.00	PASS
	52/40	-1.81	-3.53	0.42	8.00	PASS
	106/54	-4.27	-5.55	-1.85	8.00	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-7.36	-8.52	-4.89	8.00	PASS
2437	-6.86	-8.4	-4.55	8.00	PASS
2452	-7.42	-8.36	-4.85	8.00	PASS

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POWER DENSITY 802.11ax HE40						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	full	-8.23	-10.15	-6.07	8.00	PASS
	242/61	-10.66	-11.89	-8.22	8.00	PASS
2437	full	-9.06	-10.29	-6.62	8.00	PASS
2452	full	-8.5	-10.37	-6.32	8.00	PASS
	242/62	-9.93	-10.51	-7.20	8.00	PASS

Note

Cable Loss: 11.20 dB

**Refer to next page for plots*

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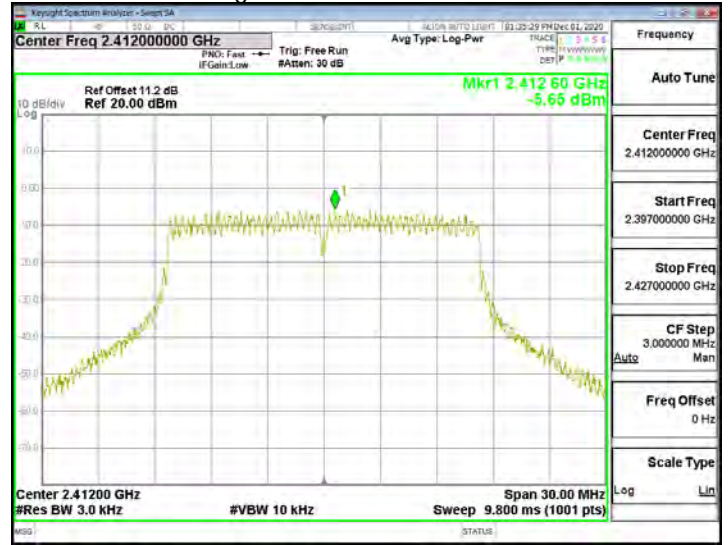
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802.11b_20MHz_Chain0_2412MHz



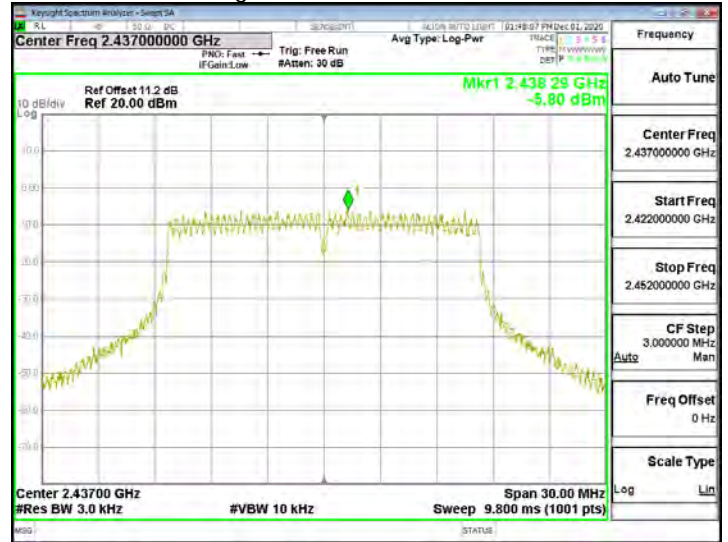
802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2437MHz



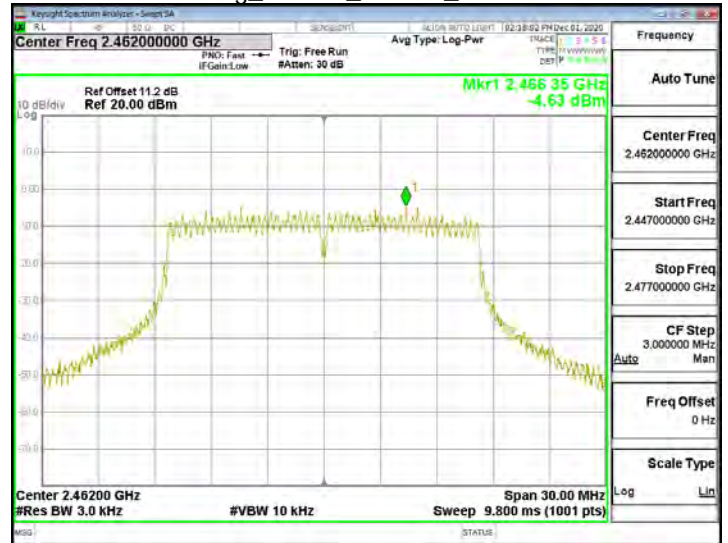
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz



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802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain1_2412MHz



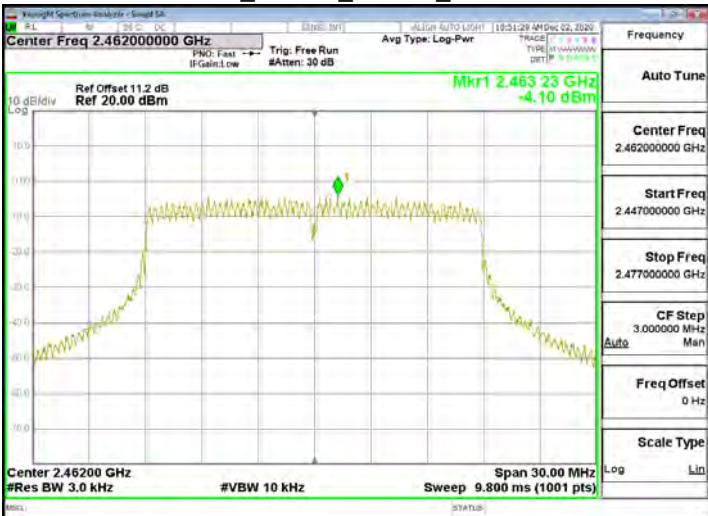
802.11n_20MHz_Chain0_2437MHz



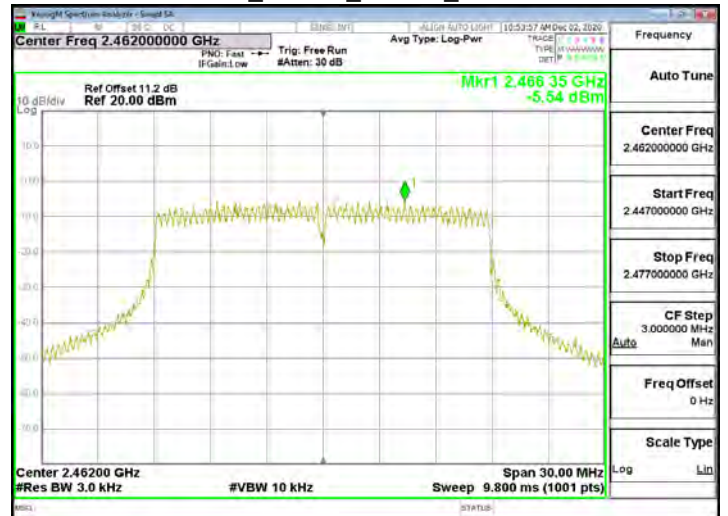
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz



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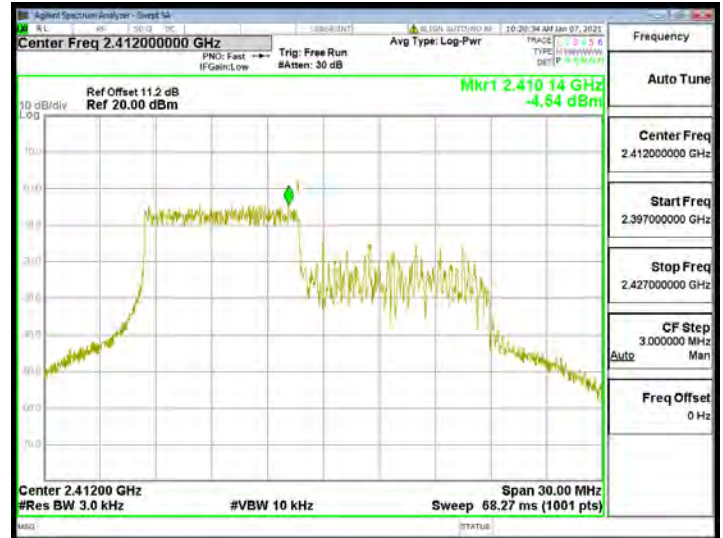
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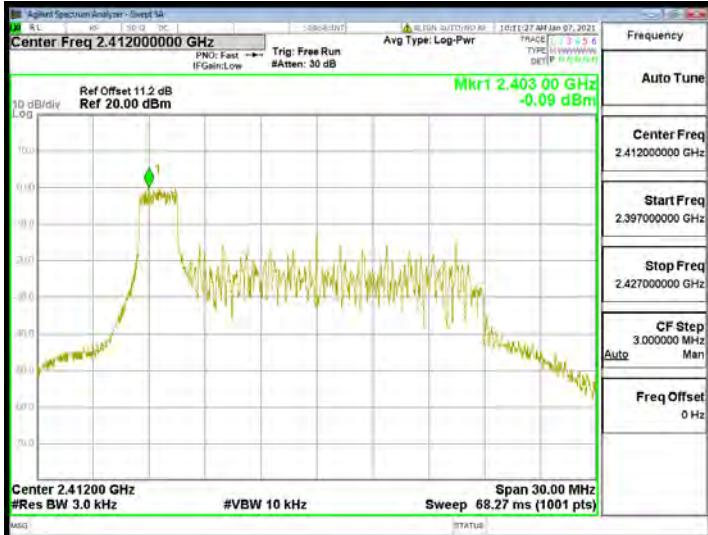
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802.11ax_20MHz_Chain0_2412MHz_RU106_53



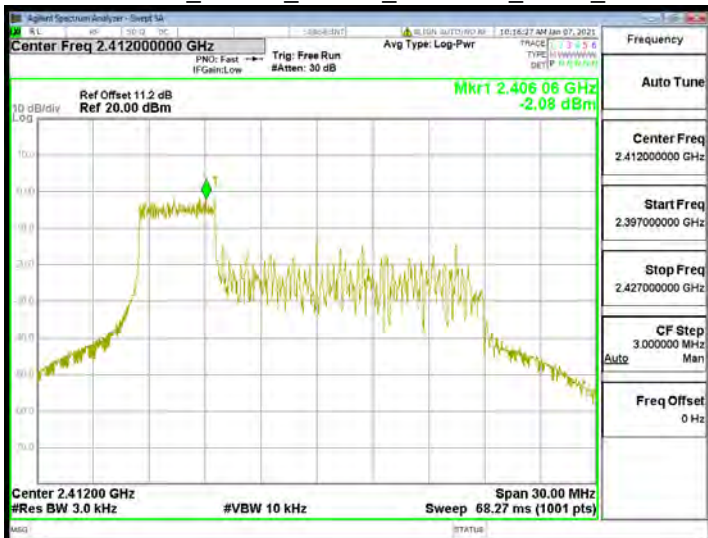
802.11ax_20MHz_Chain0_2412MHz_RU26_0



802.11ax_20MHz_Chain0_2437MHz



802.11ax_20MHz_Chain0_2412MHz_RU52_37



802.11ax_20MHz_Chain0_2462MHz

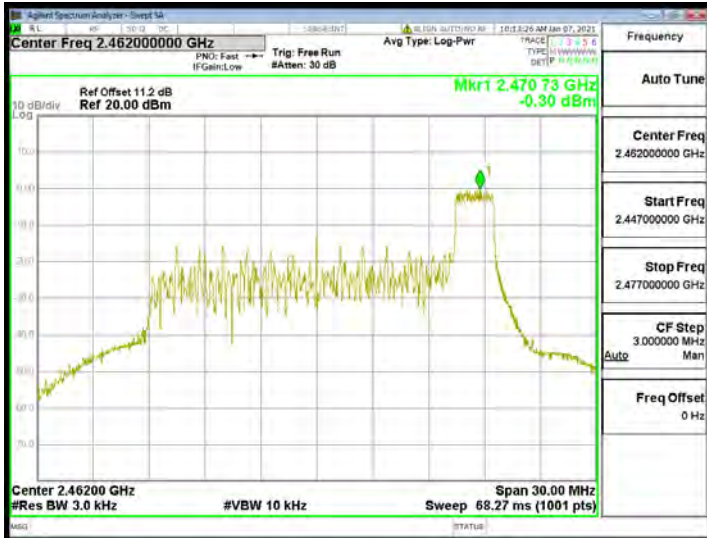


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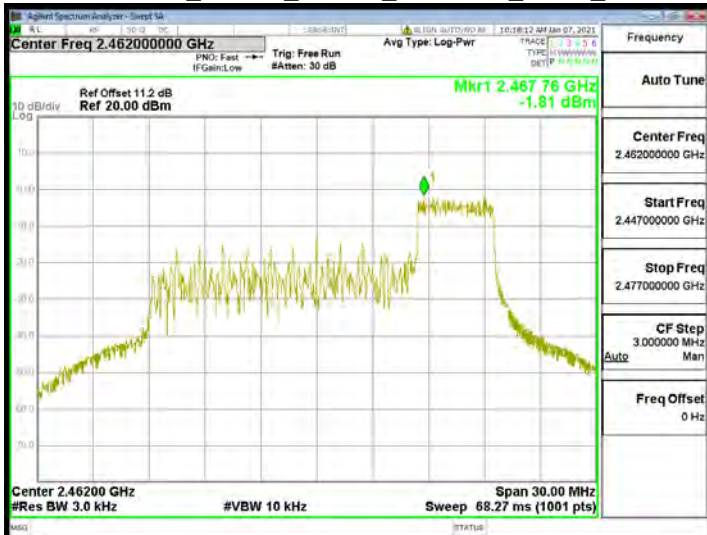
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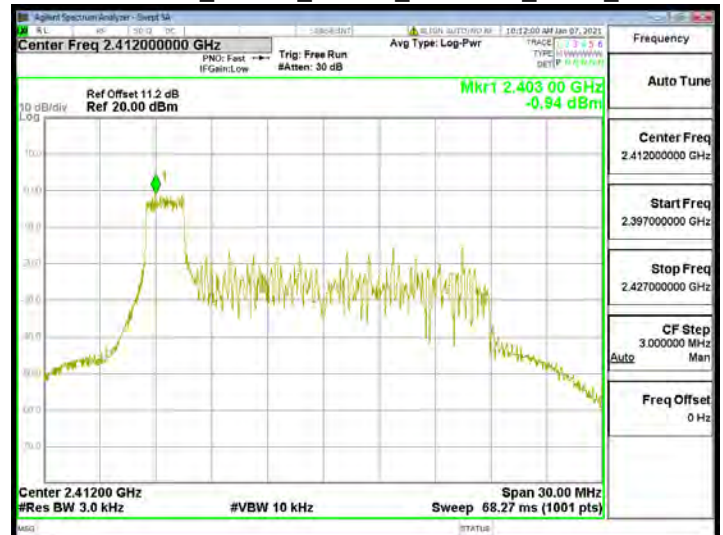
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802.11ax_20MHz_Chain0_2462MHz_RU52_40



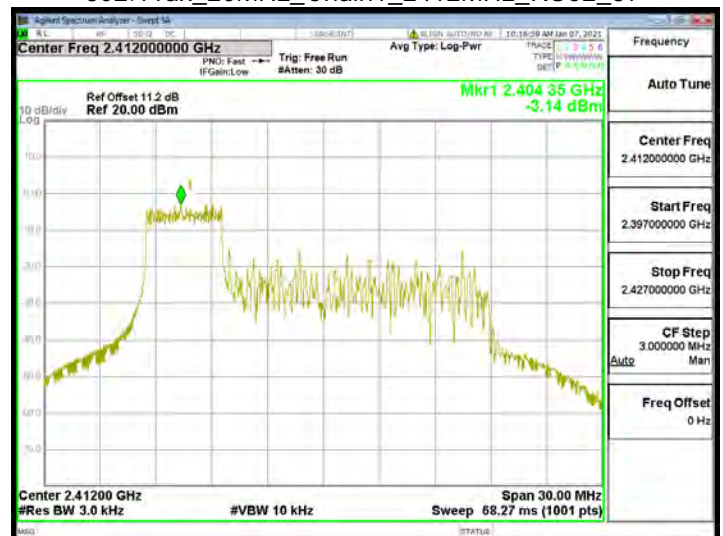
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802.11ax_20MHz_Chain0_2462MHz_RU106_54



802.11ax_20MHz_Chain1_2412MHz_RU52_37

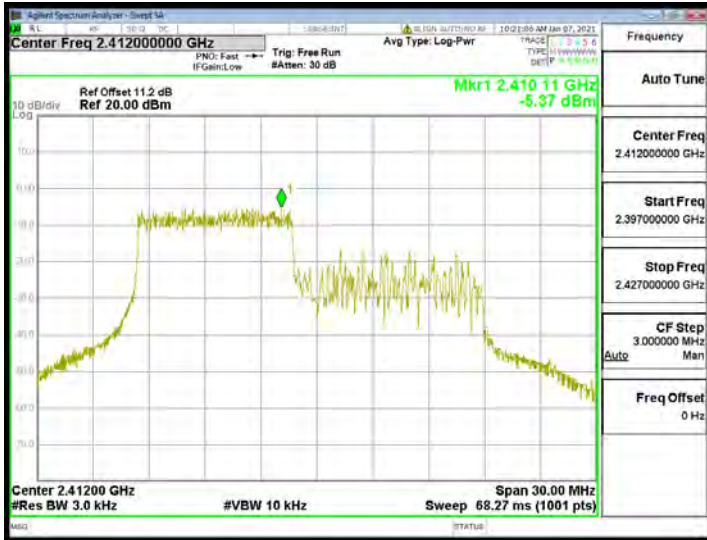


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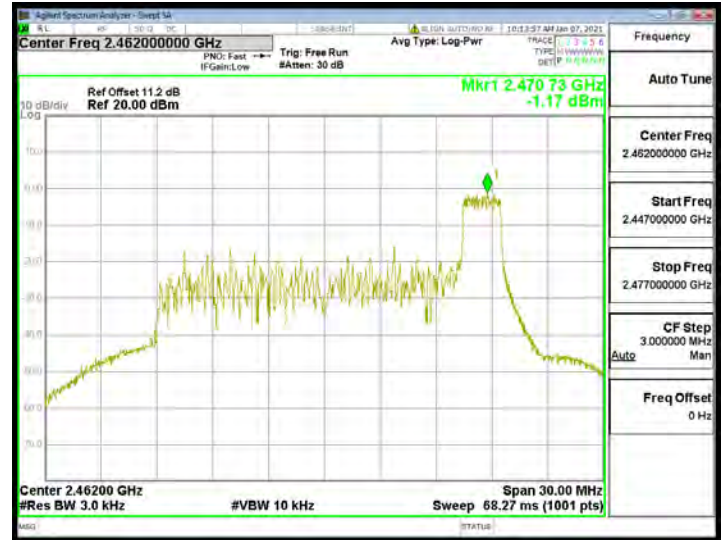
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802.11ax_20MHz_Chain1_2412MHz_RU106_53



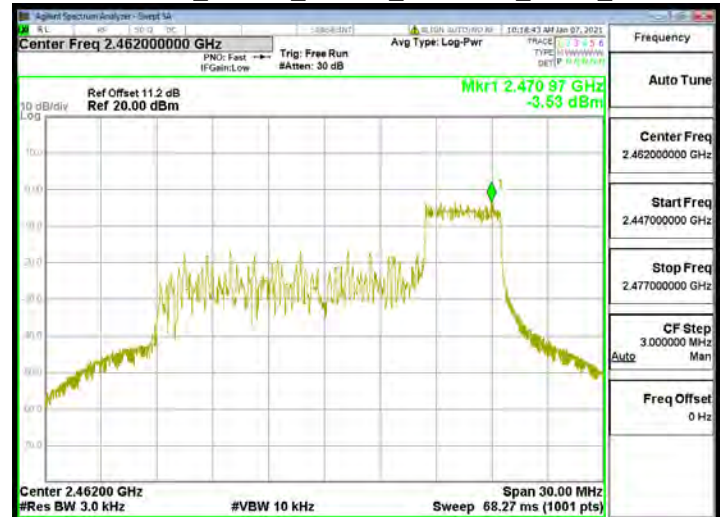
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802.11ax_20MHz_Chain1_2437MHz



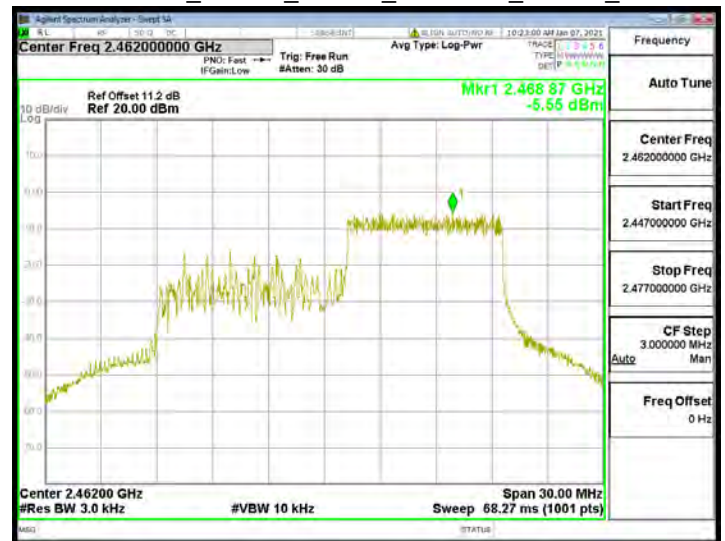
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802.11ax_20MHz_Chain1_2462MHz



802.11ax_20MHz_Chain1_2462MHz_RU106_54

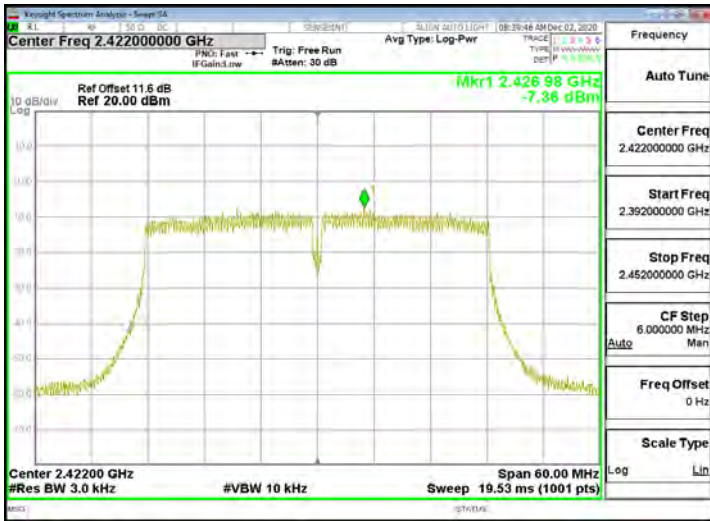


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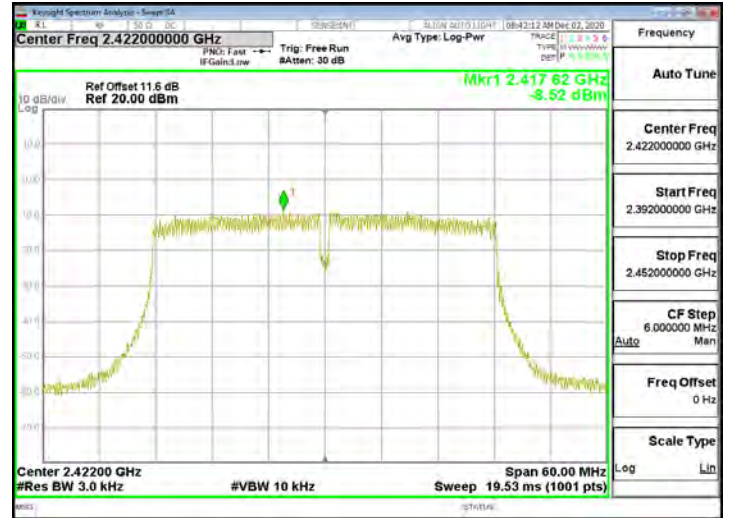
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802.11n_40MHz_Chain0_2422MHz



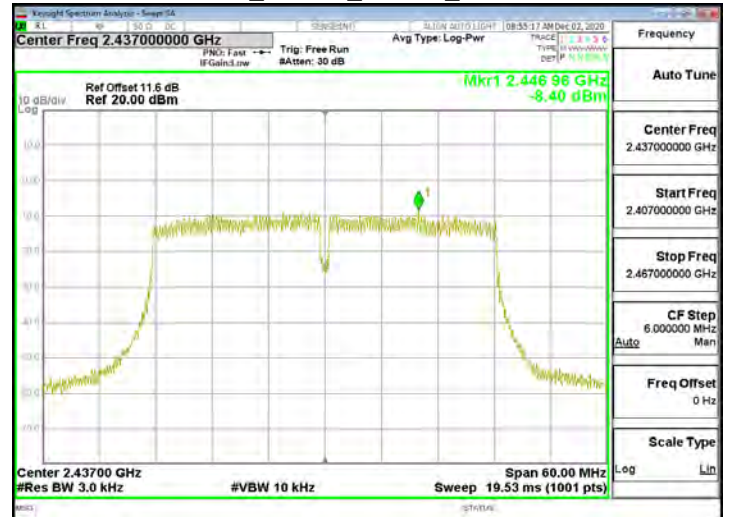
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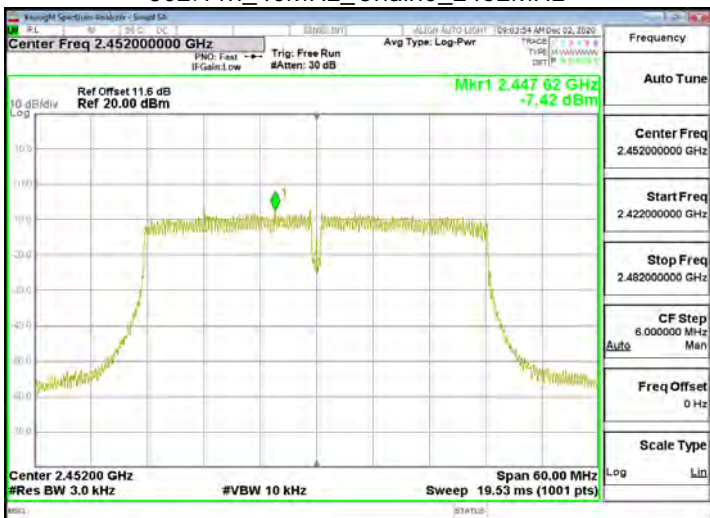
802.11n_40MHz_Chain0_2437MHz



802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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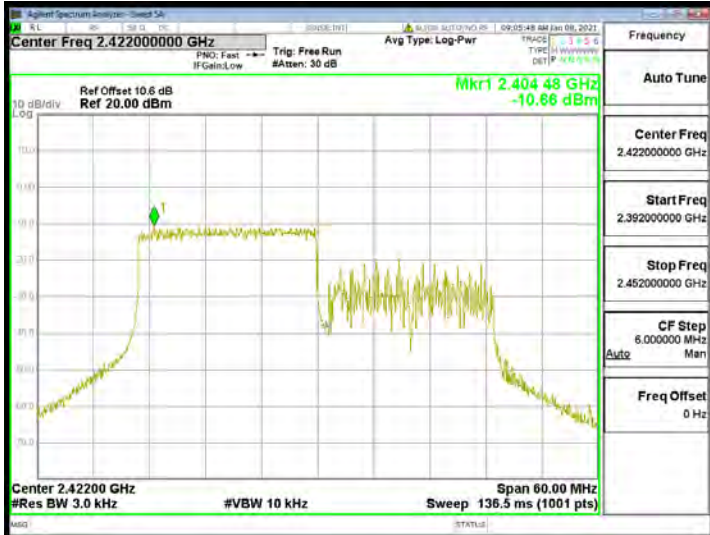
802.11ax_40MHz_Chain0_2422MHz



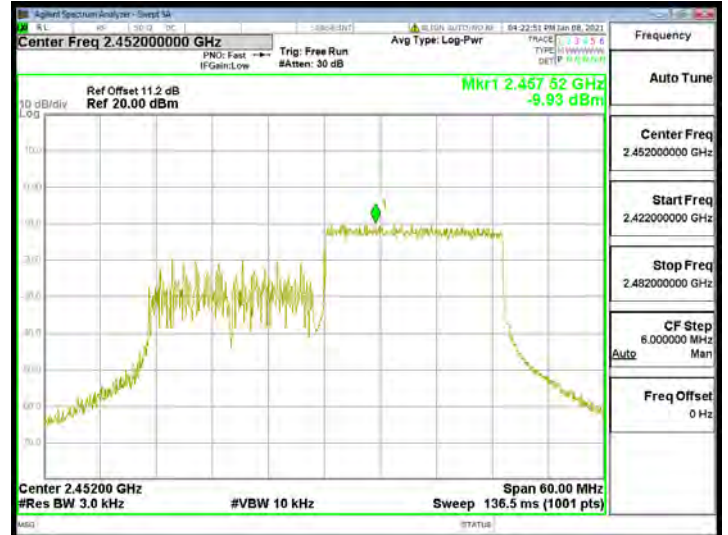
802.11ax_40MHz_Chain0_2452MHz



802.11ax_40MHz_Chain0_2422MHz_RU242_61



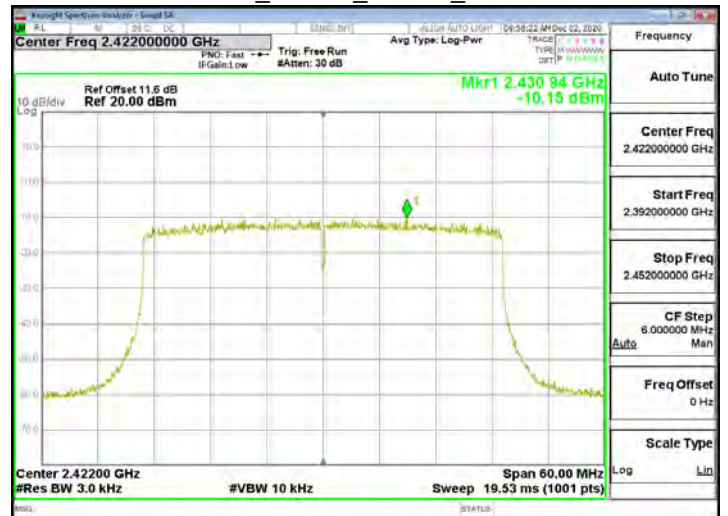
802.11ax_40MHz_Chain0_2452MHz_RU242_62



802.11ax_40MHz_Chain0_2437MHz



802.11ax_40MHz_Chain1_2422MHz



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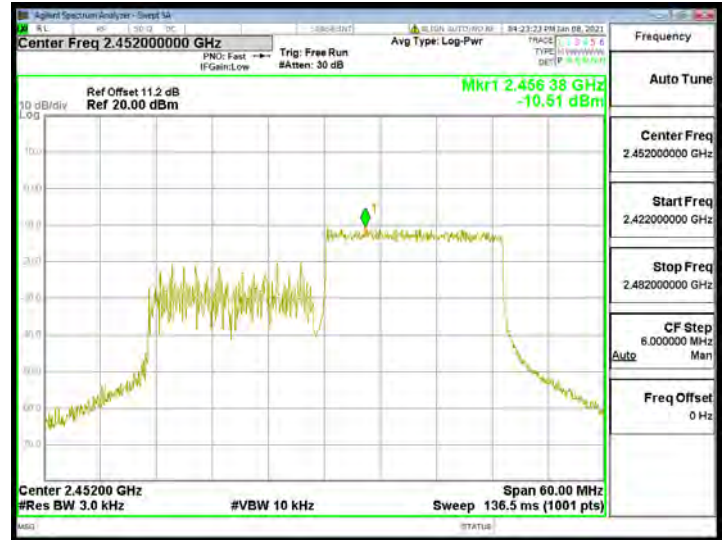
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802.11ax_40MHz_Chain1_2422MHz_RU242_61



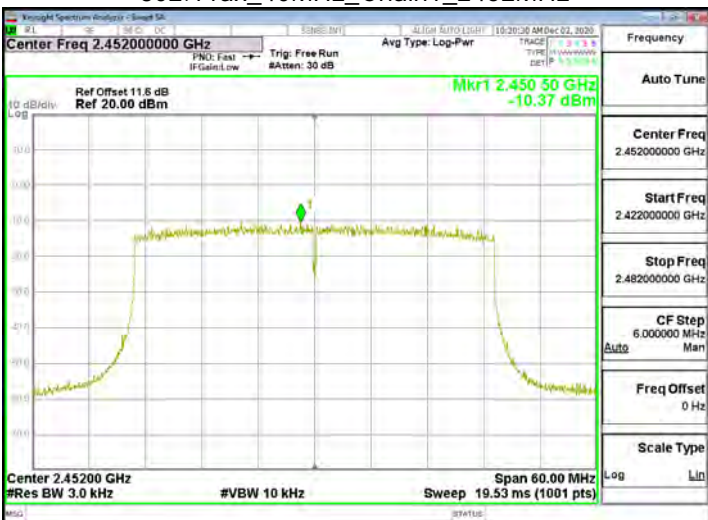
802.11ax_40MHz_Chain1_2452MHz_RU242_62



802.11ax_40MHz_Chain1_2437MHz



802.11ax_40MHz_Chain1_2452MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

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

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

13.2 Antenna Connected Construction

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

~ End of Report ~

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