

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/B0045

FCC ID VPLYB2AJ

IC: 772C-LB2AJ

FCC Rule Part: §15.247, Cat: DTS

IC RSS: RSS-247 issue 2 Feb 2017

Issue Date: Jan. 28, 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/B0045	Rev.00	Original.	Jan. 28, 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

Radio Technology:	Bluetooth LE Single mode
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE 1M: 7.77 dBm BLE 2M: 7.92 dBm

1.2 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Patch	N/A	955-011-901	2402-2480	-1.9

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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
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 Conducted (Antenna Port) Emission Configuration



Fig 2-3 Conduction (AC Power Line) Radiated Emission

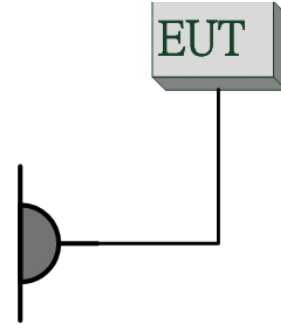


Fig 2-2 Radiated Emission



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	Bluetooth 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	ISED 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% Bandwidth	Compliant
§15.247(d) §15.205 §15.209	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2 b	Peak Power 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

40 channels are provided for Bluetooth LE

ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
1	2402 MHz	15	2430 MHz	29	2458 MHz
2	2404 MHz	16	2432 MHz	30	2460 MHz
3	2406 MHz	17	2434 MHz	31	2462 MHz
4	2408 MHz	18	2436 MHz	32	2464 MHz
5	2410 MHz	19	2438 MHz	33	2466 MHz
6	2412 MHz	20	2440 MHz	34	2468 MHz
7	2414 MHz	21	2442 MHz	35	2470 MHz
8	2416MHz	22	2444 MHz	36	2472 MHz
9	2418 MHz	23	2446 MHz	37	2474 MHz
10	2420 MHz	24	2448 MHz	38	2476 MHz
11	2422 MHz	25	2450 MHz	39	2478 MHz
12	2424 MHz	26	2452 MHz	40	2480 MHz
13	2426 MHz	27	2454 MHz		
14	2428 MHz	28	2456 MHz		

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)
RADIATED EMISSION TEST (BELOW 1 GHz)				
Bluetooth LE	2402 to 2480	2442	GFSK	1
Bluetooth LE	2402 to 2480	2442	GFSK	2
RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	1
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	2
<p>Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth LE Transmitter for channel Low, Mid and High, the worst case H position was reported.</p>				

ANTENNA PORT CONDUCTED MEASUREMENT				
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	1
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	2

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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(μ V)	
	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

- The lower limit shall apply at the transition frequencies
- 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. 6.11-20180 413	N.C.R	N.C.R

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

6.3 EUT Setup:

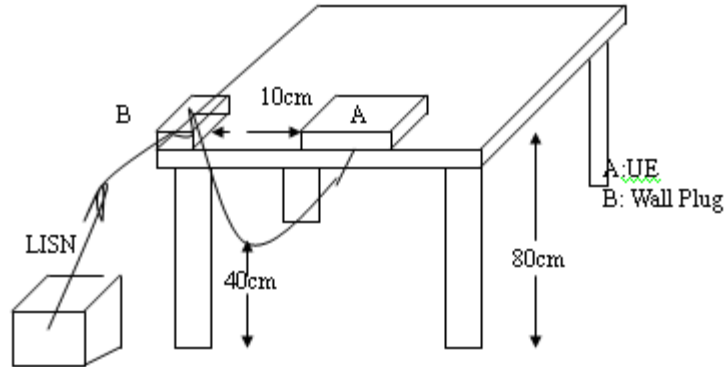
- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- The LISN was connected with 120Vac/60Hz power source.

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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 plan.
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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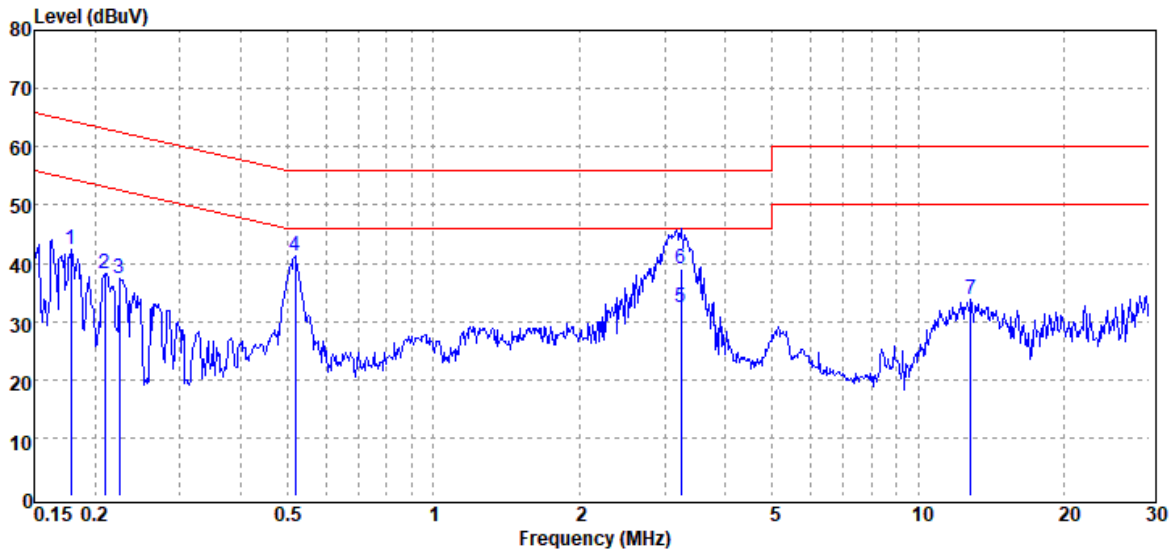
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :ER-2020-B0045
 Test Mode :BLE
 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 PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.18	Peak	42.34	0.04	42.38	64.55	-22.17
0.21	Peak	38.28	0.04	38.32	63.23	-24.91
0.22	Peak	37.27	0.04	37.31	62.66	-25.35
0.52	Peak	41.07	0.15	41.22	56.00	-14.78
3.24	Average	31.95	0.39	32.34	46.00	-13.66
3.24	QP	38.73	0.39	39.12	56.00	-16.88
12.85	Peak	32.84	0.96	33.80	60.00	-26.20

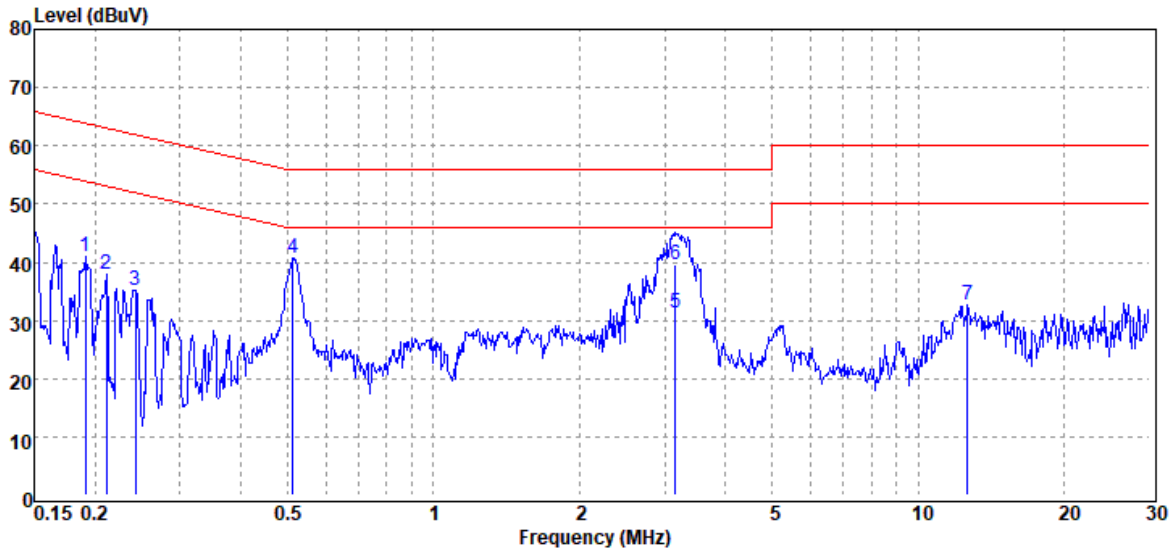
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Report Number :ER-2020-B0045
 Test Mode :BLE
 Power :AC 120V/60Hz
 Probe :N
 Note: :

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV	Limit dBµV	Margin dB
0.19	Peak	41.02	0.00	41.02	63.98	-22.96
0.21	Peak	37.79	0.00	37.79	63.14	-25.35
0.24	Peak	35.20	0.00	35.20	62.00	-26.80
0.51	Peak	40.69	0.10	40.79	56.00	-15.21
3.16	Average	31.22	0.10	31.32	46.00	-14.68
3.16	QP	39.51	0.10	39.61	56.00	-16.39
12.65	Peak	32.63	0.13	32.76	60.00	-27.24

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7 PEAK OUTPUT POWER MEASUREMENT

7.1 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.

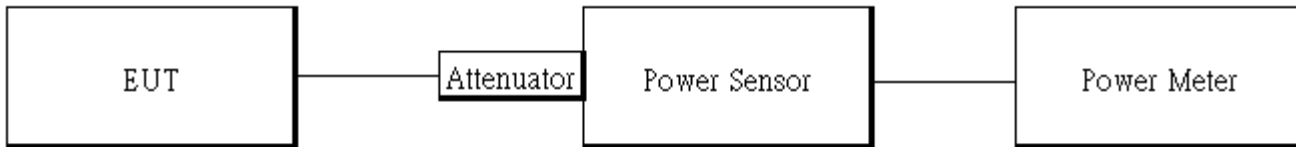
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

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

7.2 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

7.3 Test Set-up:



7.4 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.
4. Record the max. Reading as observed from Power Meter.
5. Repeat above procedures until all test default channel measured was complete.

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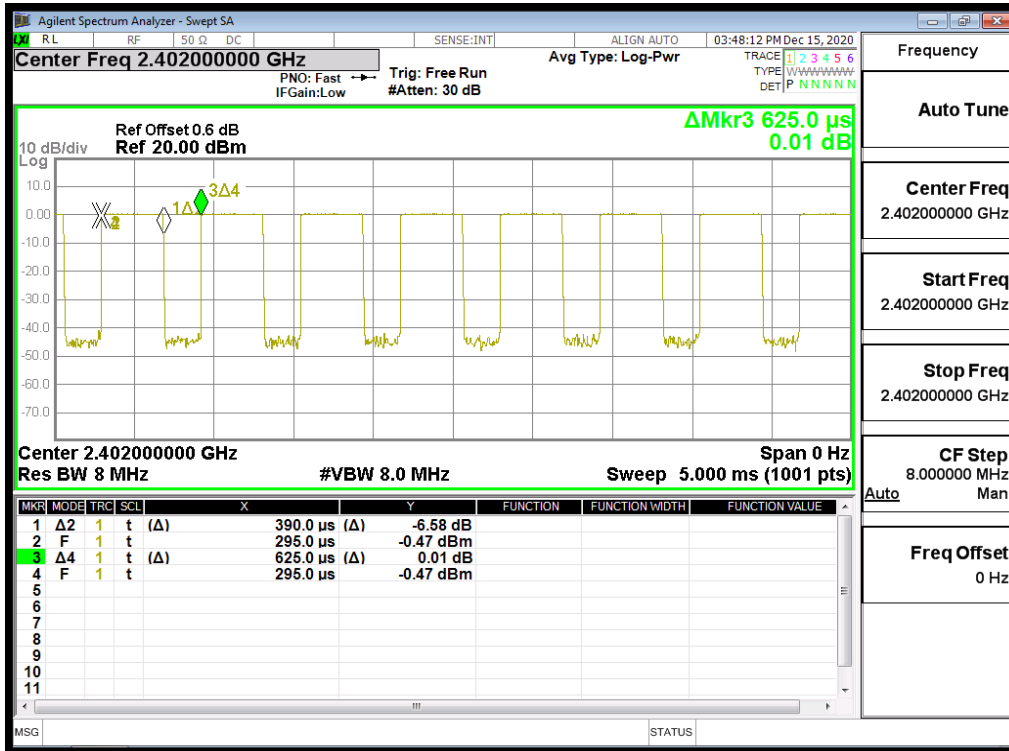
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7.5 Duty Factor:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) = 10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE	62.00	2.08	2.56	3.00

Duty Cycle Factor: $10 * \log(1/(62/100)) = 2.08$



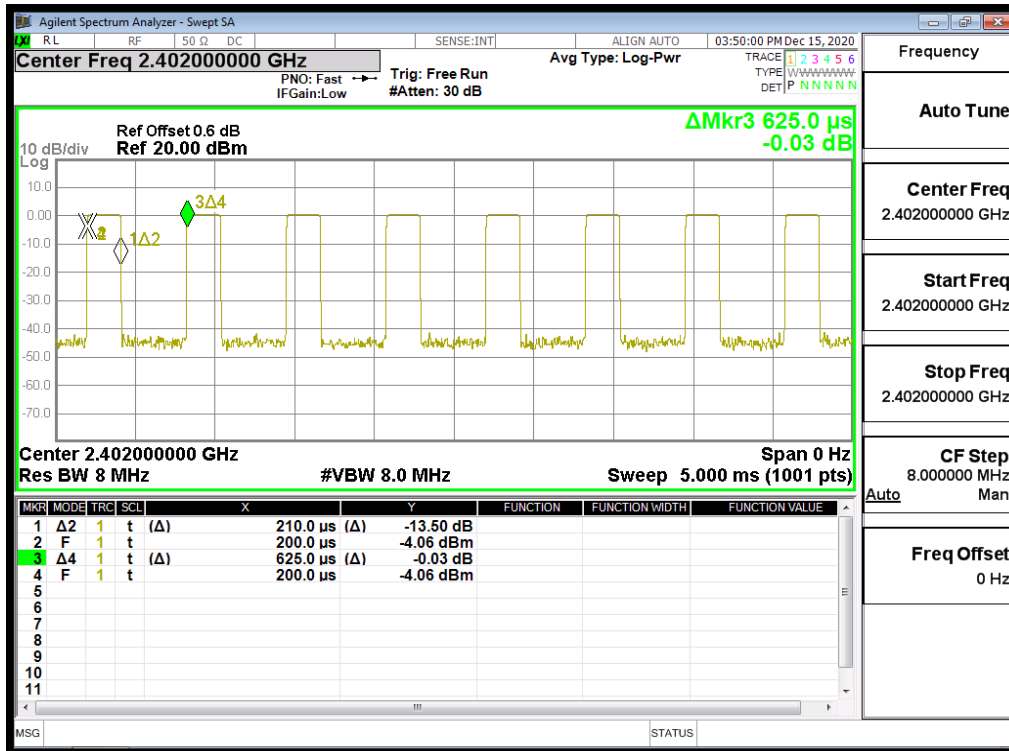
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	Duty Cycle (%)	Duty Factor (dB)	1/T (kHz)	VBW setting (kHz)
BLE 2M	34.00	4.69	4.88	5.00

Duty Cycle Factor: $10 \cdot \log(1/(34/100))=4.69$



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7.6 Output Power:

7.6.1 Peak & Avg

BLE mode:

CH	Frequency (MHz)	Peak Power Output (dBm)	Required Limit
Low	2402	7.77	1 Watt = 30 dBm
Mid	2442	7.76	1 Watt = 30 dBm
High	2480	7.37	1 Watt = 30 dBm
CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit
Low	2402	7.64	1 Watt = 30 dBm
Mid	2442	7.66	1 Watt = 30 dBm
High	2480	7.25	1 Watt = 30 dBm

**Note: Measured by power meter, cable loss 0.6 dB + Duty cycle factor has been offsetted to power meter for Peak power measurement.*

BLE 2M mode:

CH	Frequency (MHz)	Peak Power Output (dBm)	Required Limit
0	2402	7.89	1 Watt = 30 dBm
20	2442	7.92	1 Watt = 30 dBm
39	2480	7.53	1 Watt = 30 dBm
BLE 2M mode:			
CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit
0	2402	7.45	1 Watt = 30 dBm
20	2442	7.57	1 Watt = 30 dBm
39	2480	7.01	1 Watt = 30 dBm

**Note: Measured by power meter, cable loss as 0.6 dB that offsets on the power meter in Peak*

**Note: Measured by power meter, ~~as cable loss~~ Duty cycle factor that offsets on the power meter*

**Note: Max. Output include tune up tolerance Power is average power*

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7.6.2 EIRP

BLE

CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	2402	7.64	-1.90	5.74	4W= 36 dBm
Mid	2442	7.66	-1.90	5.76	4W= 36 dBm
High	2480	7.25	-1.90	5.35	4W= 36 dBm

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

BLE 2M

CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
0	2402	7.45	-1.90	5.55	4W= 36 dBm
20	2442	7.57	-1.90	5.67	4W= 36 dBm
39	2480	7.01	-1.90	5.11	4W= 36 dBm

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

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8 6DB & 99% BANDWIDTH MEASUREMENT

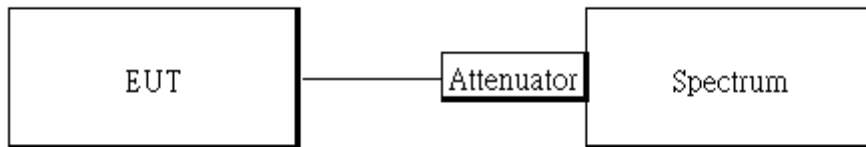
8.1 Standard Applicable

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

8.2 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
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

8.3 Test Set-up:



8.4 Measurement Procedure:

- Place the EUT on the table and set it in transmitting mode.
- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- Set the spectrum analyzer as
 RBW= 100 kHz ,
 VBW = 3 X RBW,
 Span= 2 to 5 times of the OBW,
 Sweep=auto,
 Detector = Peak, and Max hold for -6dB Bandwidth test.
- 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,
 Sweep=auto,
 Detector = Peak, and Max hold for 99% Bandwidth test.
- Mark the peak frequency and 99%dB (upper and lower) frequency
- Repeat above procedures until all test default channel is completed

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8.5 Measurement Result:

BLE

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.6735	> 0.5	PASS
2442	0.6762	> 0.5	PASS
2480	0.6777	> 0.5	PASS

BLE mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.0152
2442	1.0187
2480	1.0186

BLE 2M

Frequency (MHz)	6dB BW (MHz)	BW (MHz)	Result
2402	1.143	> 0.5	PASS
2442	1.147	> 0.5	PASS
2480	1.148	> 0.5	PASS

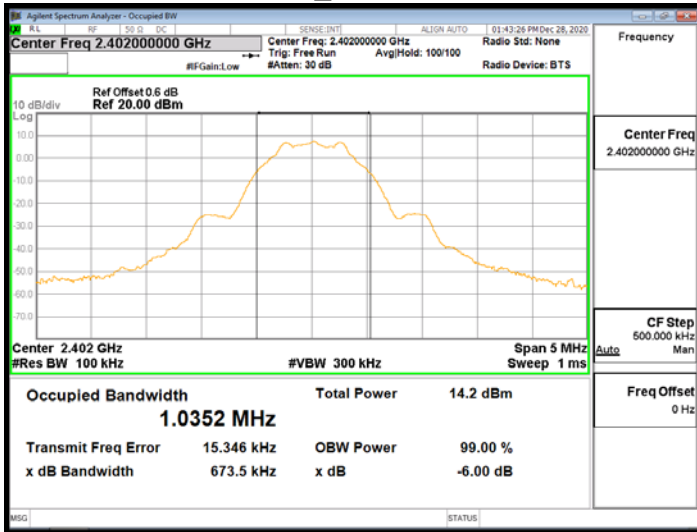
Frequency (MHz)	99%Bandwidth (MHz)
2402	1.8329
2442	1.8319
2480	1.8318

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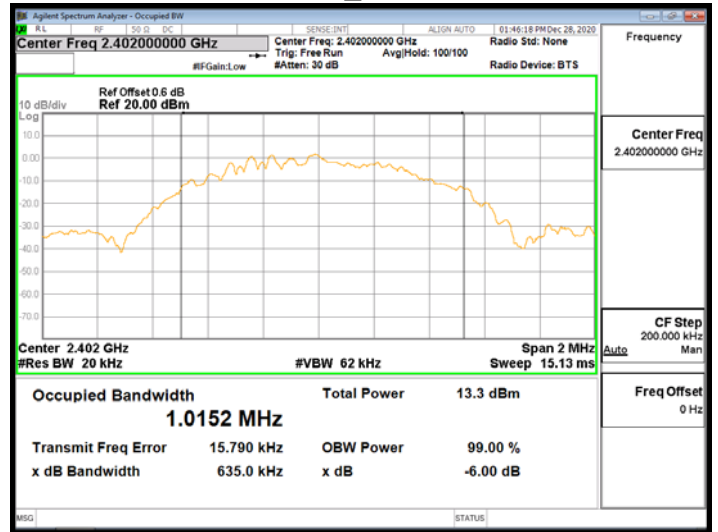
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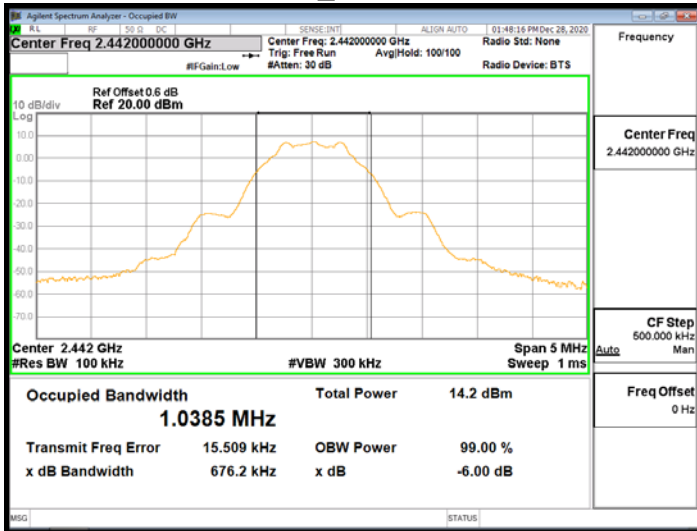
OBW 6dB\BLE_1M\LowCH00-2402



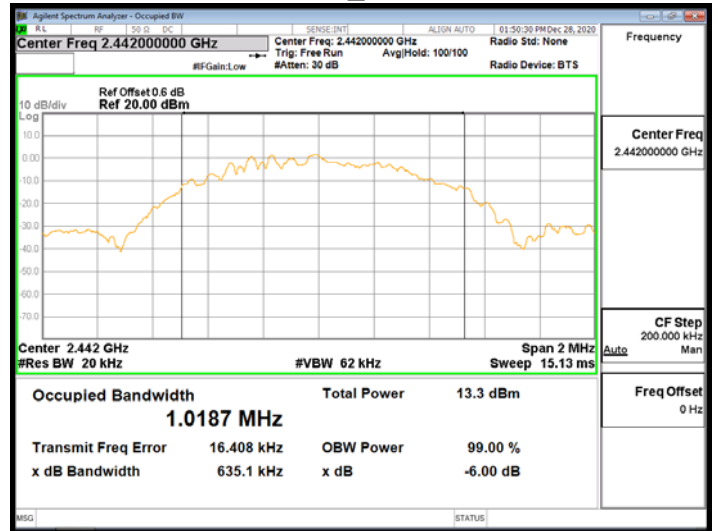
IC OBW 99%\BLE_1M\LowCH00-2402



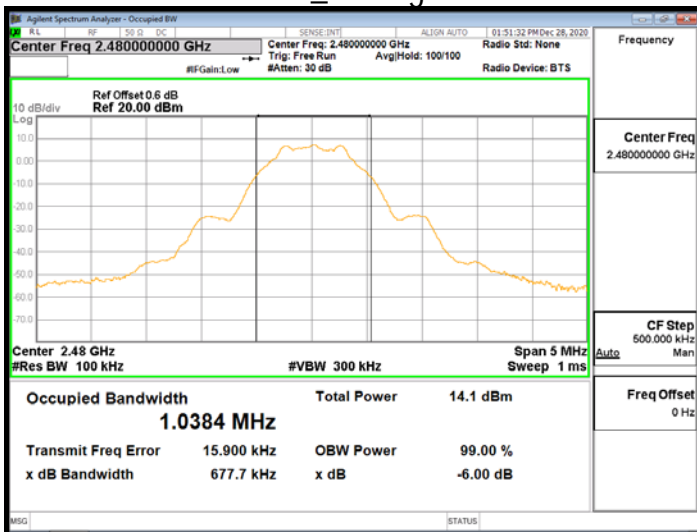
OBW 6dB\BLE_1M\MidCH20-2442



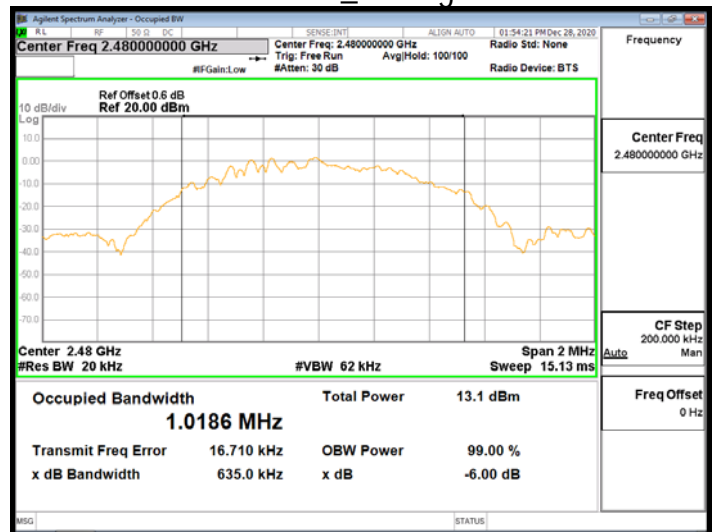
IC OBW 99%\BLE_1M\MidCH20-2442



OBW 6dB\BLE_1M\HighCH39-2480



IC OBW 99%\BLE_1M\HighCH39-2480

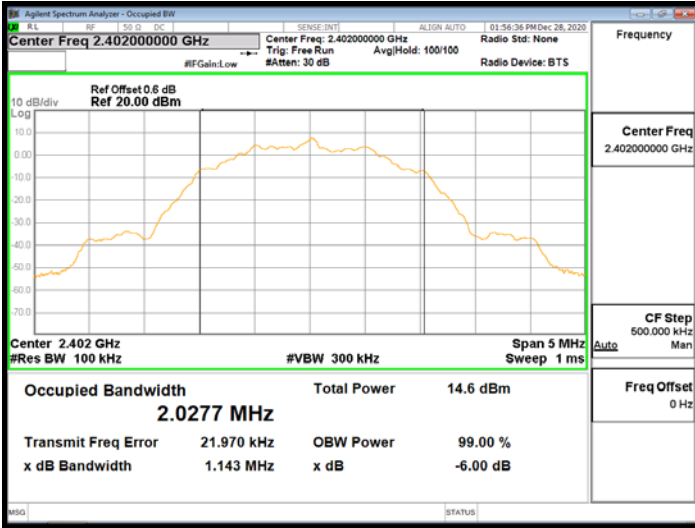


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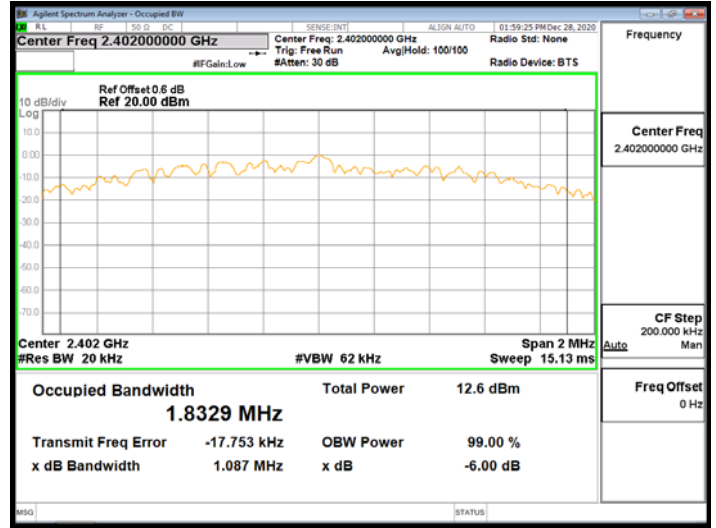
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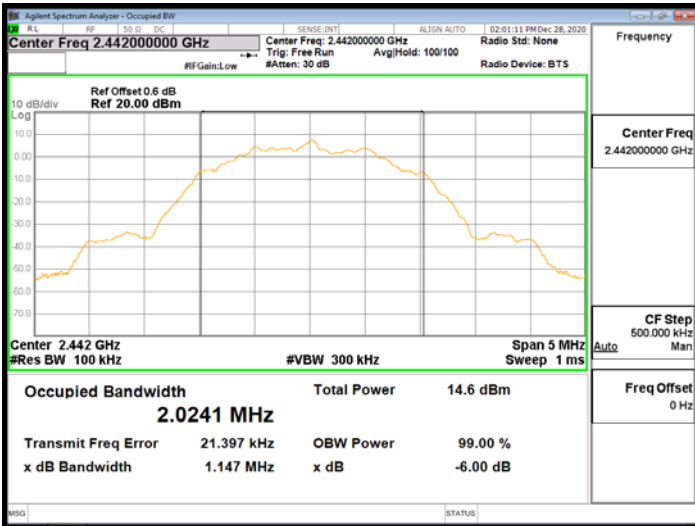
OBW 6dB\BLE_2M\LowCH00-2402



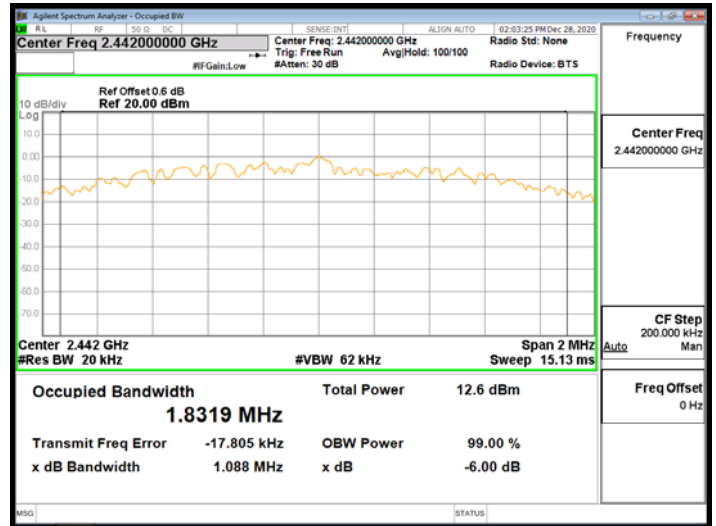
IC OBW 99%\BLE_2M\LowCH00-2402



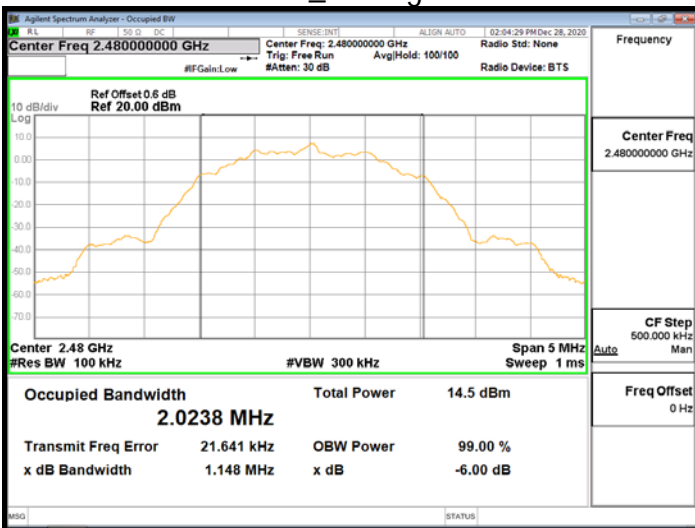
OBW 6dB\BLE_2M\MidCH20-2442



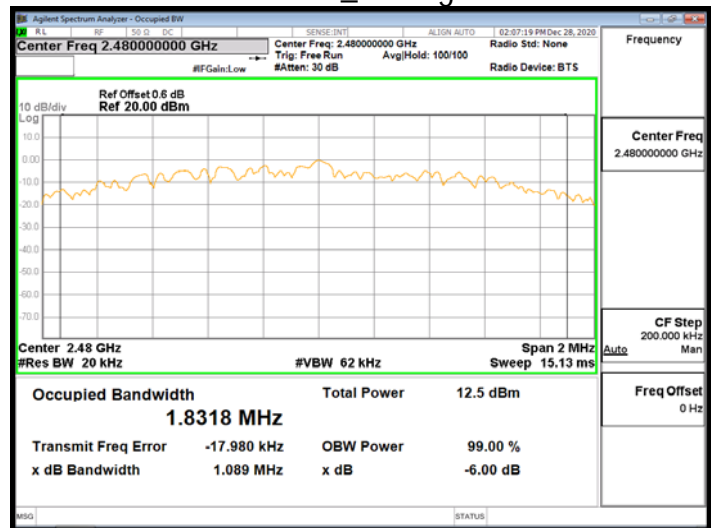
IC OBW 99%\BLE_2M\MidCH20-2442



OBW 6dB\BLE_2M\HighCH39-2480



IC OBW 99%\BLE_2M\HighCH39-2480



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9 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

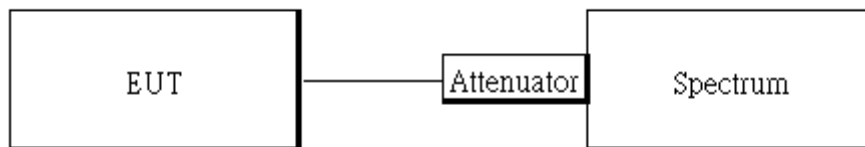
9.1 Standard Applicable

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.

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
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

9.3 Test SET-UP:



9.4 Measurement Procedure

9.4.1 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.

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9.4.2 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. Set DL as the limit = reading on marker of reference level measurement – 20dBm
7. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
8. Repeat above procedures until all default test channel (low and high) was complete.

9.4.3 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.

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9.5 Measurement Result

BLE

Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	7.33	-12.67
2442	7.30	-12.70
2480	7.17	-12.83

NOTE: cable loss as 0.6dB that offsets in the spectrum

NOTE: Refer to next page for plots.

BLE 2M

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	7.34	-12.66
2442	7.34	-12.66
2480	7.18	-12.82

NOTE: cable loss as dB that offsets in the spectrum

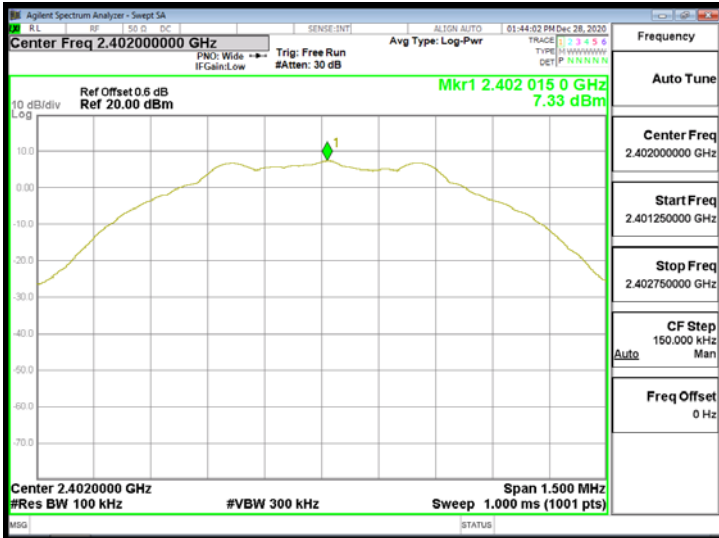
NOTE: Refer to next page for plots.

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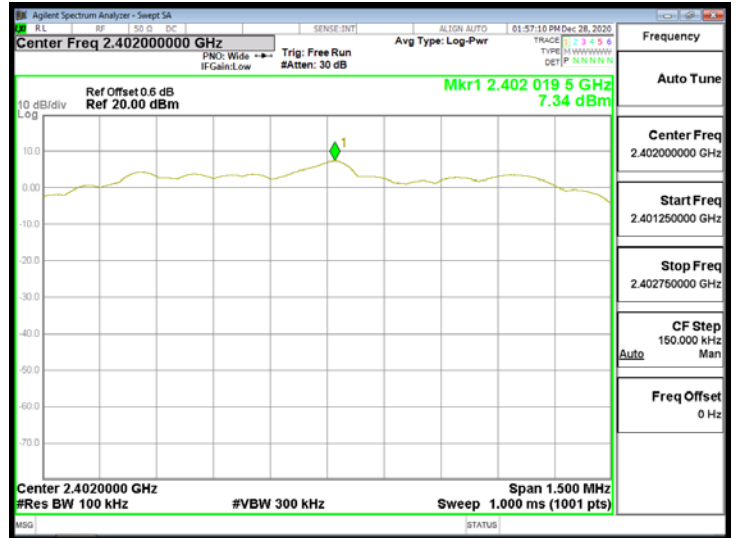
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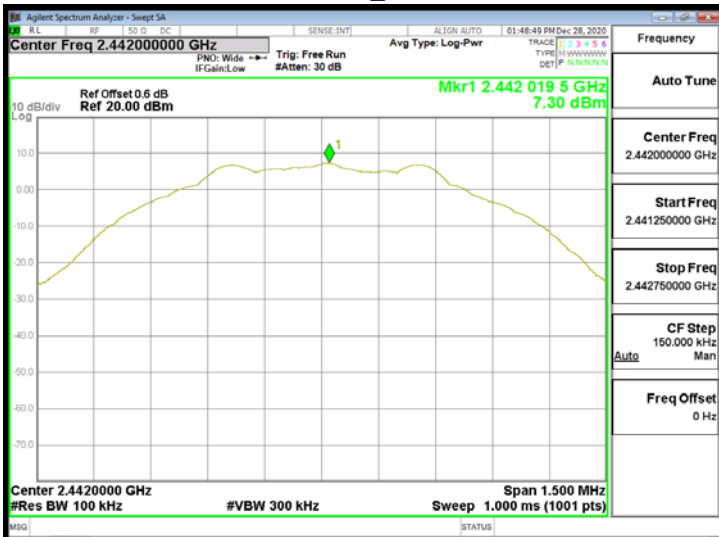
Reference Level\BLE_1M\LowCH00-2402



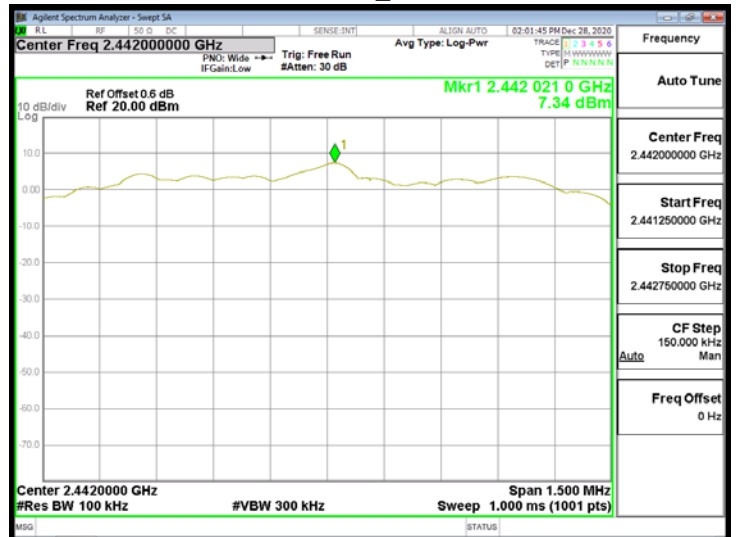
Reference Level\BLE_2M\LowCH00-2402



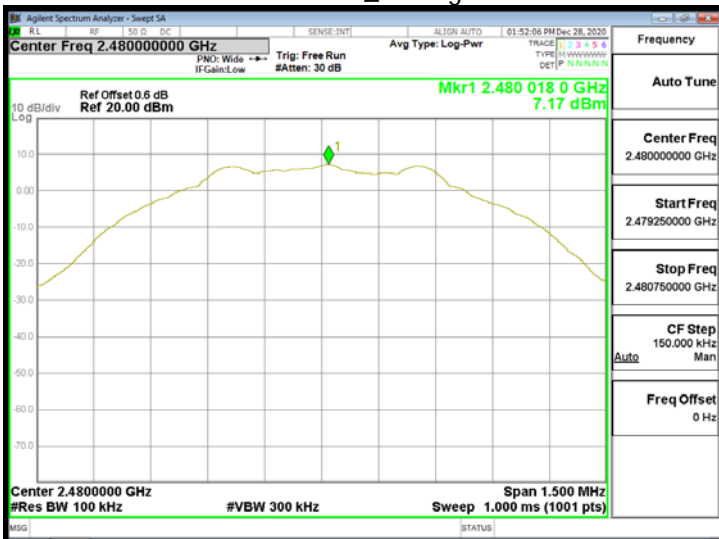
Reference Level\BLE_1M\MidCH20-2442



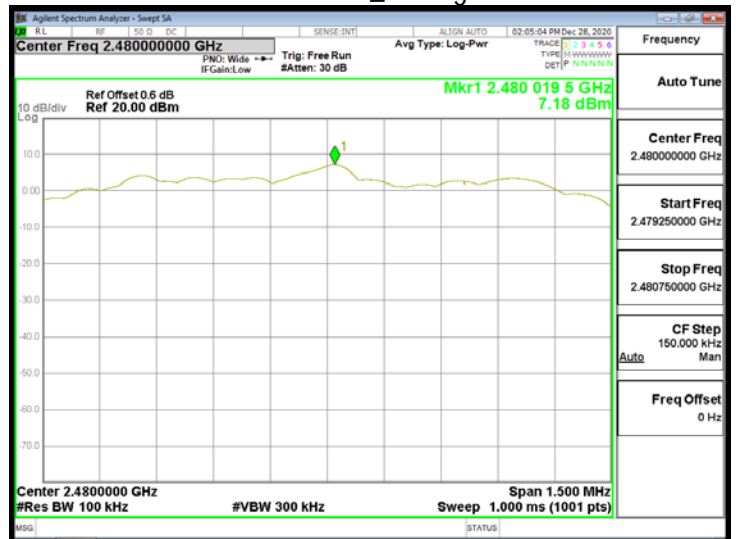
Reference Level\BLE_2M\MidCH20-2442



Reference Level\BLE_1M\HighCH39-2480



Reference Level\BLE_2M\HighCH39-2480

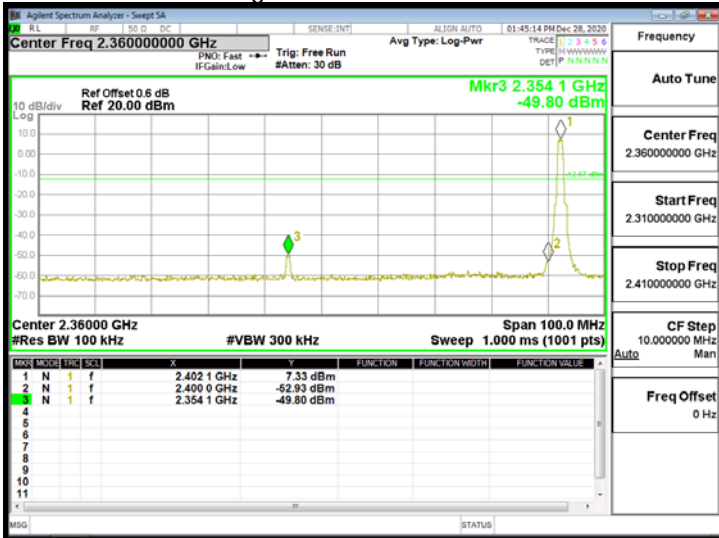


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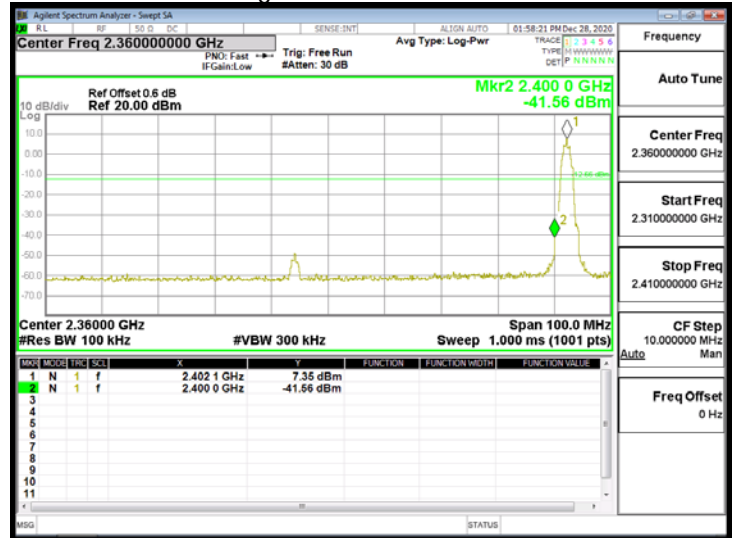
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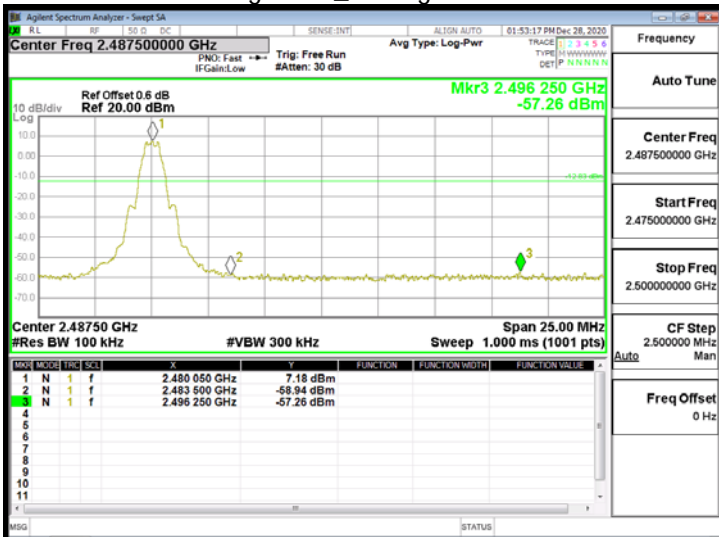
Band EdgeBLE_1MLowCH00-2402



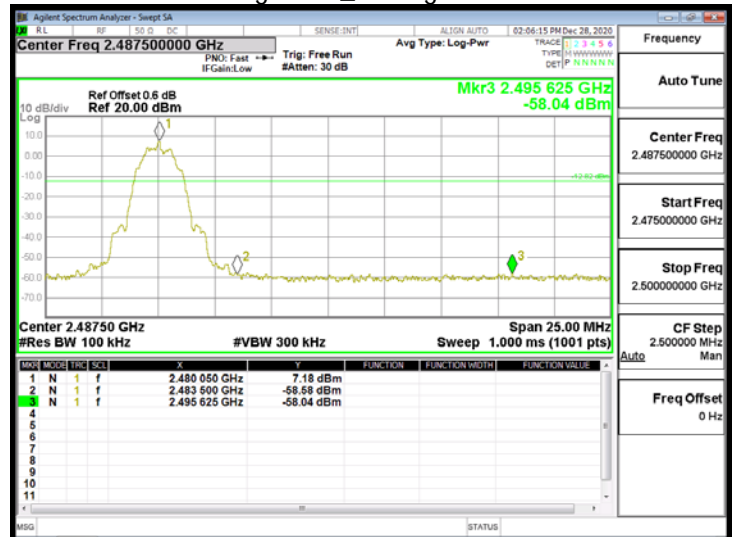
Band EdgeBLE_2MLowCH00-2402



Band EdgeBLE_1MHighCH39-2480



Band EdgeBLE_2MHighCH39-2480

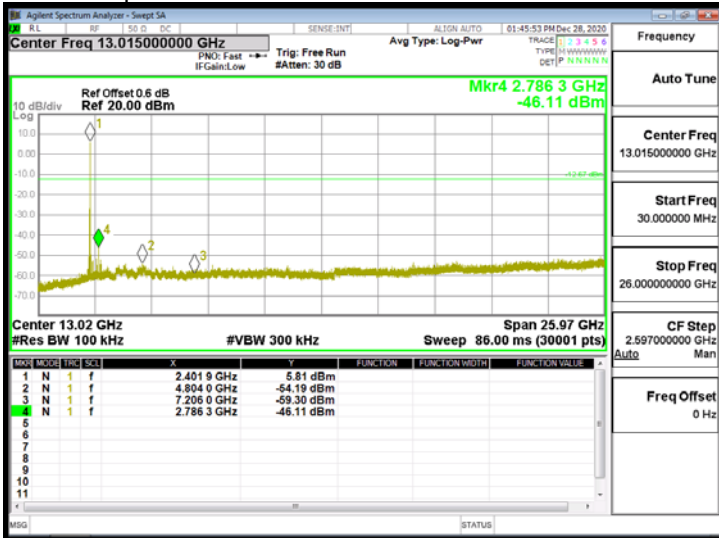


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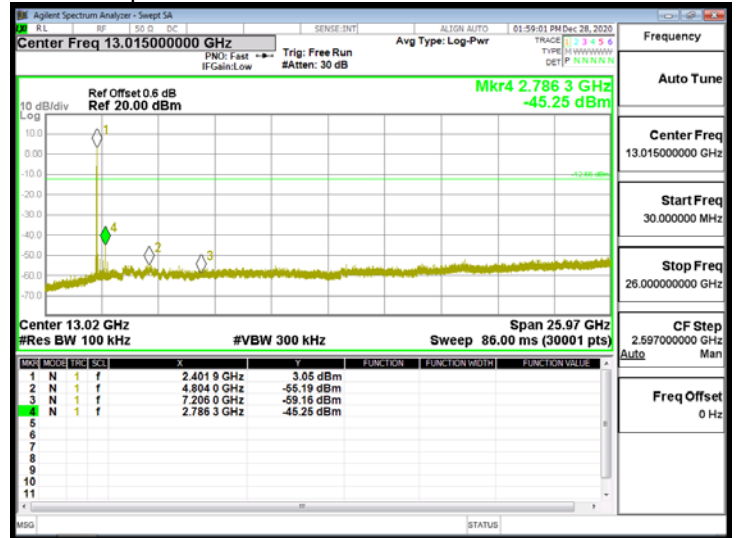
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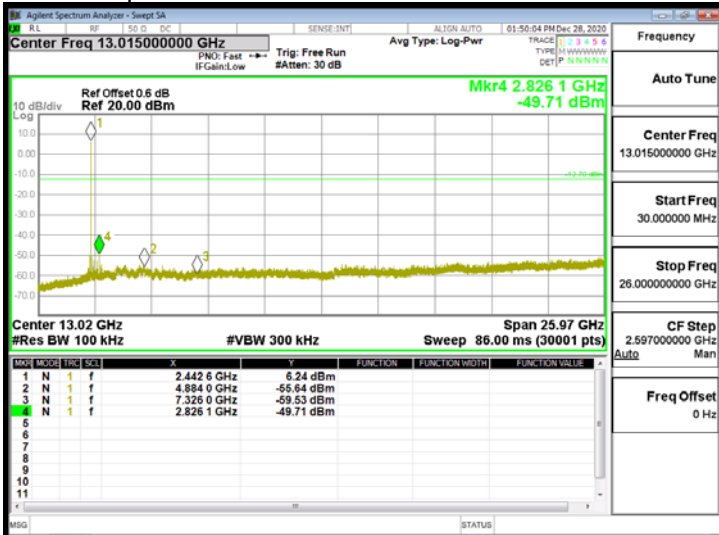
Spurious Emission\BLE_1M\LowCH00-2402



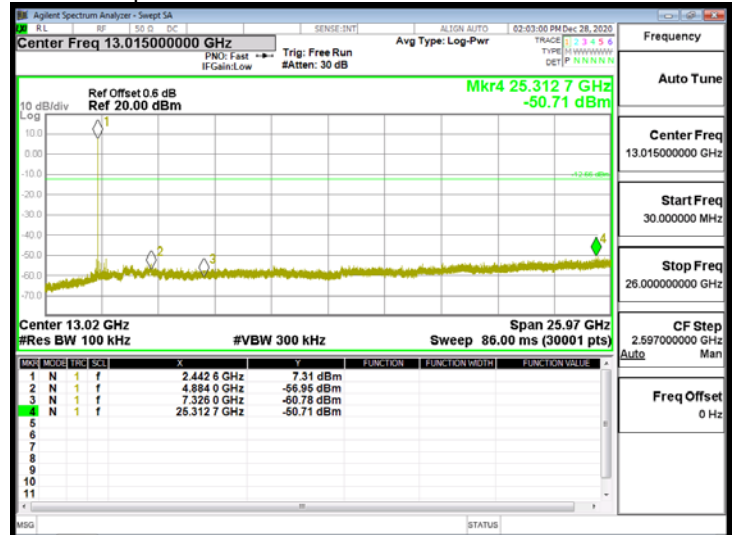
Spurious Emission\BLE_2M\LowCH00-2402



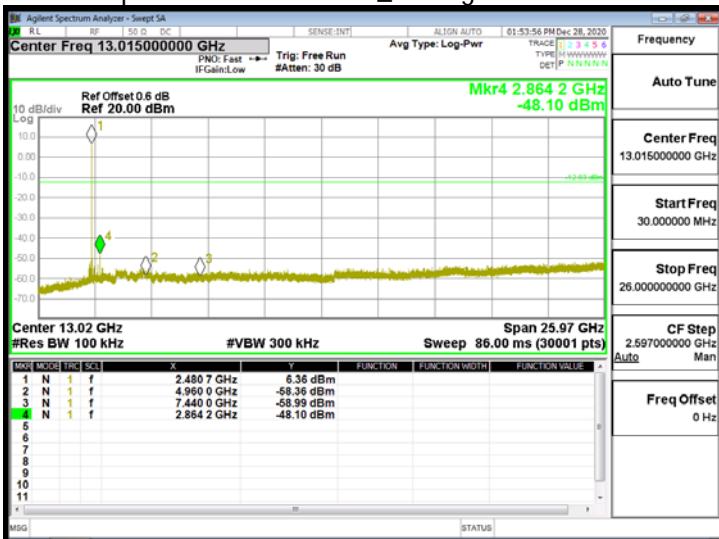
Spurious Emission\BLE_1M\MidCH20-2442



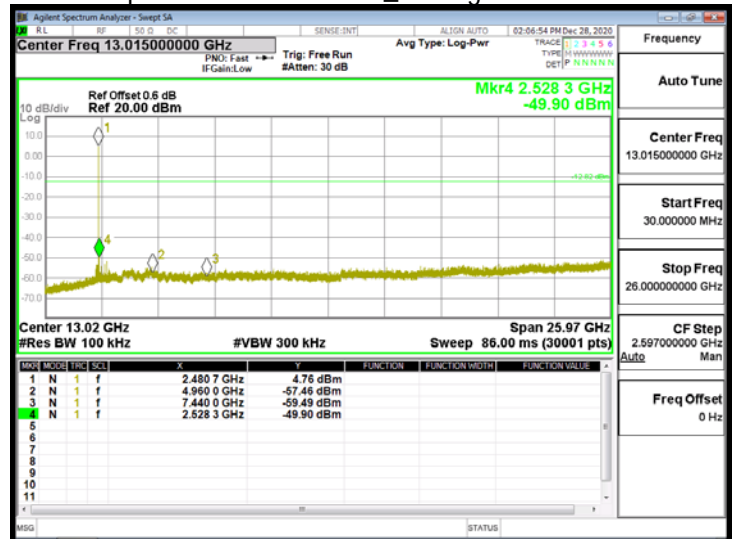
Spurious Emission\BLE_2M\MidCH20-2442



Spurious Emission\BLE_1M\HighCH39-2480



Spurious Emission\BLE_2M\HighCH39-2480



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10 RADIATED BANDEDGE 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 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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10.2 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-10 SS	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. 6.11-2018041 3	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.

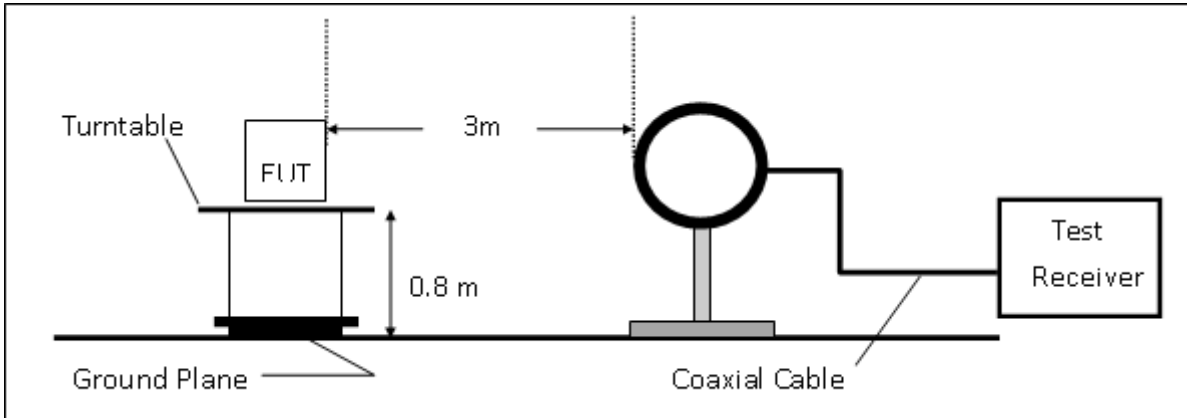
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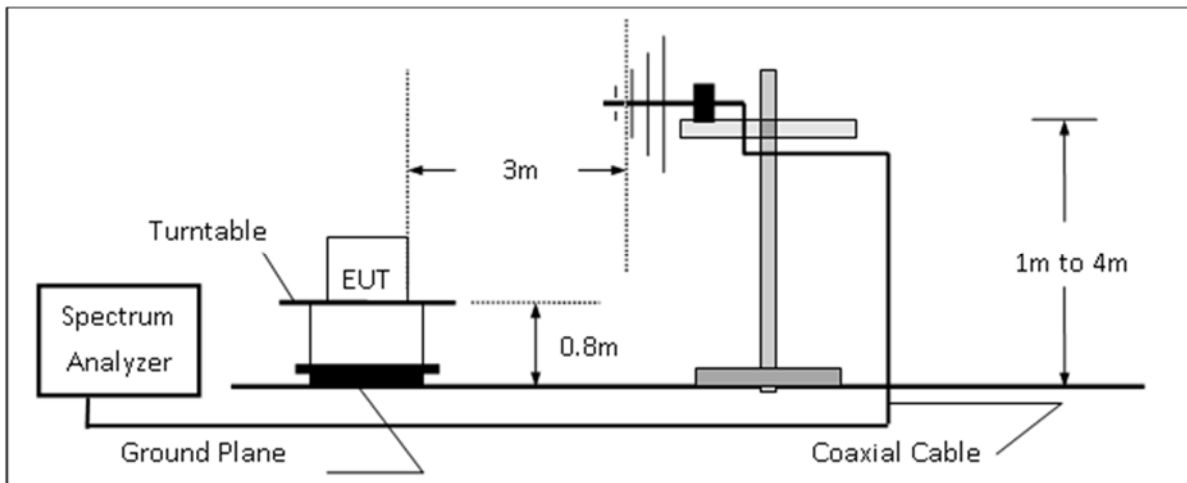
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10.3 Test SET-UP

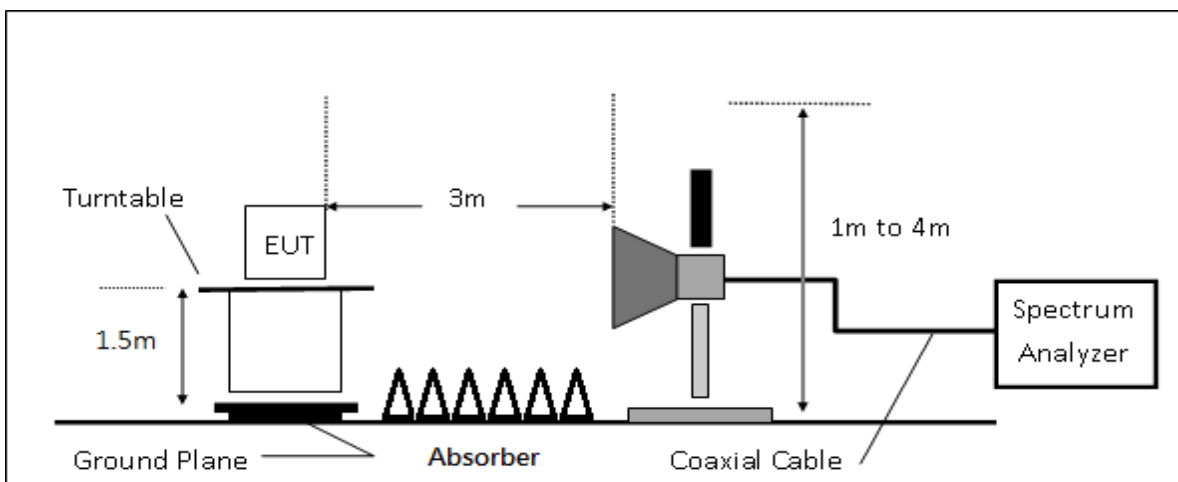
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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10.4 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 plan.
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. 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.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
7. 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.
8. 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.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. 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.
11. Repeat above procedures until all default test channel measured were complete.

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10.5 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(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

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

10.6 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.

10.7 Measurement Result:

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

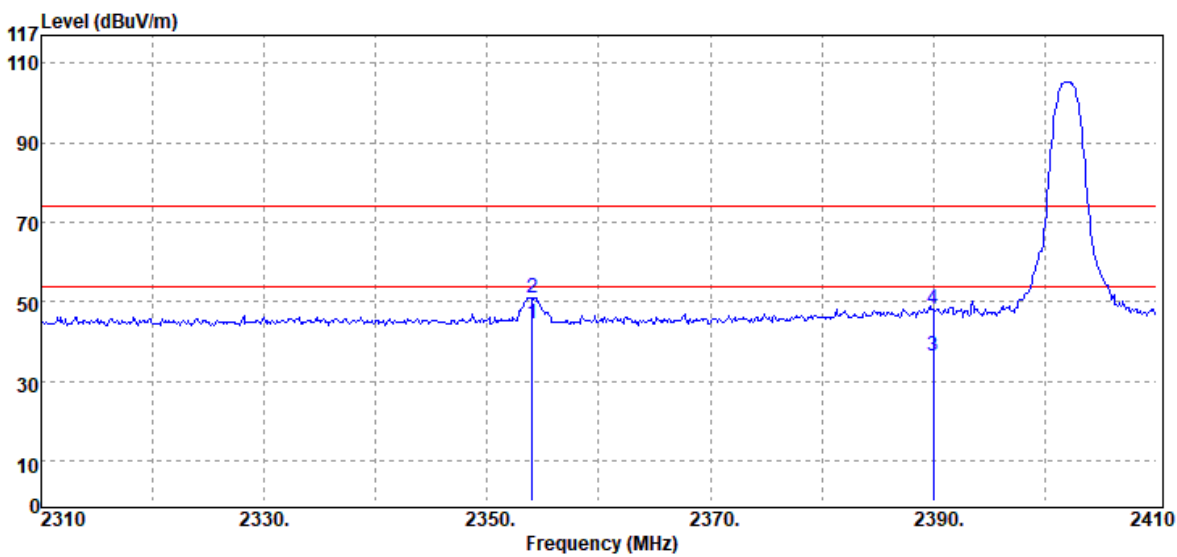
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10.7.1 Radiated Band Edge Measurement Result

Report Number	:ER-2020-B0045	Test Site	:SAC III Chamber
Operation Mode	:BLE(1M)	Test Date	:2021-01-12
Test Frequency	:2402 MHz	Temp./Humi.	:21.0/39
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	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
2354.00	Average	43.69	0.99	44.68	54.00	-9.32
2354.00	Peak	50.05	0.99	51.04	74.00	-22.96
2390.00	Average	35.43	0.92	36.35	54.00	-17.65
2390.00	Peak	47.29	0.92	48.21	74.00	-25.79

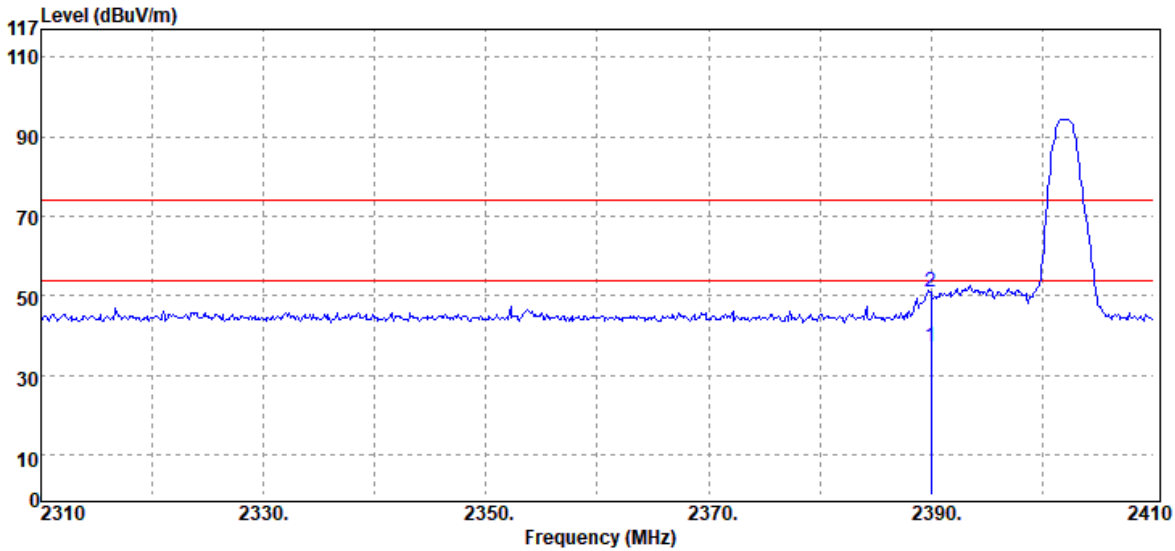
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Report Number :ER-2020-B0045
 Operation Mode :BLE(1M)
 Test Frequency :2402 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

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
2390.00	Average	36.52	0.92	37.44	54.00	-16.56
2390.00	Peak	49.94	0.92	50.86	74.00	-23.14

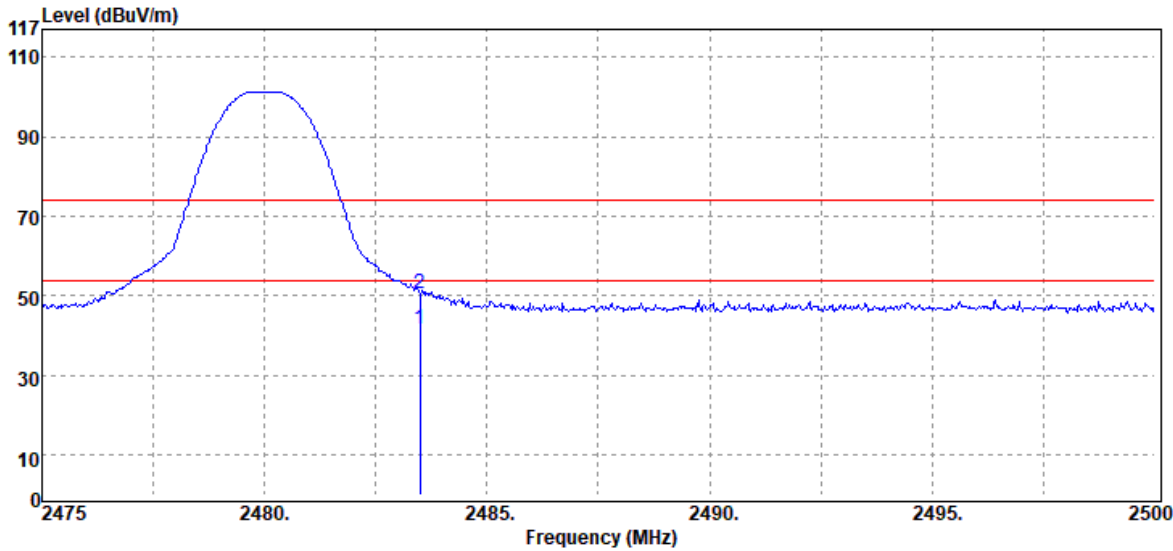
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Report Number :ER-2020-B0045
 Operation Mode :BLE(1M)
 Test Frequency :2480 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	41.17	0.67	41.84	54.00	-12.16
2483.50	Peak	49.86	0.67	50.53	74.00	-23.47

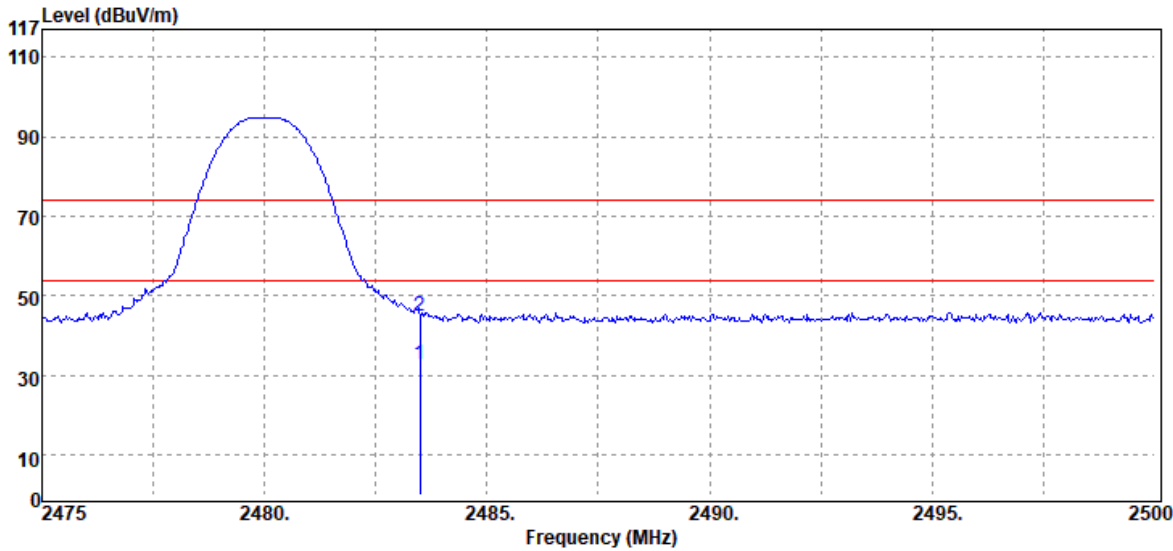
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Report Number :ER-2020-B0045
 Operation Mode :BLE(1M)
 Test Frequency :2480 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

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
2483.50	Average	32.28	0.67	32.95	54.00	-21.05
2483.50	Peak	44.36	0.67	45.03	74.00	-28.97

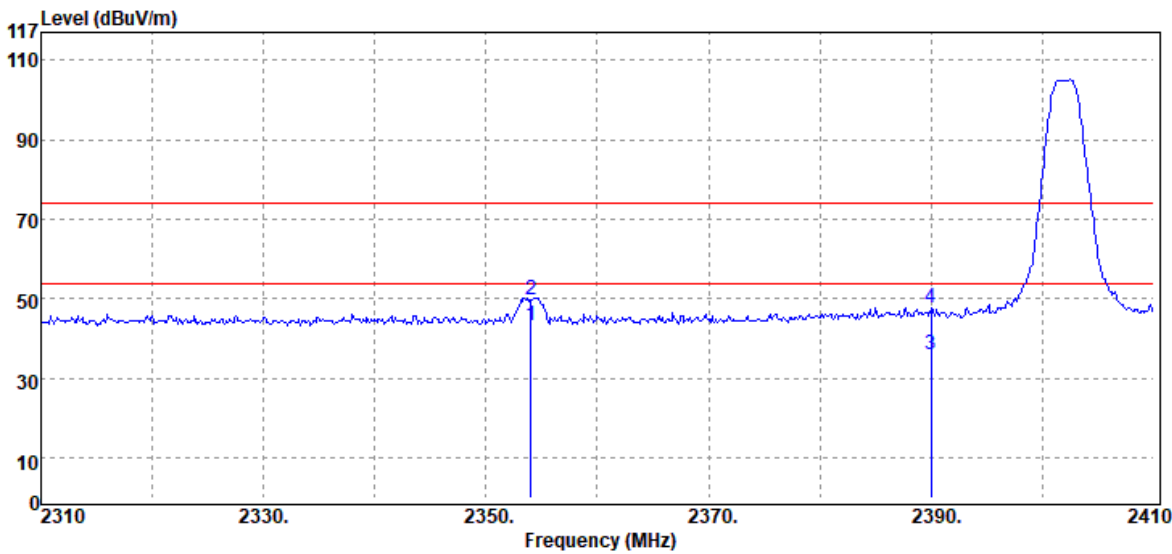
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Report Number :ER-2020-B0045
 Operation Mode :BLE(2M)
 Test Frequency :2402 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2354.00	Average	42.40	0.99	43.39	54.00	-10.61
2354.00	Peak	48.96	0.99	49.95	74.00	-24.05
2390.00	Average	34.94	0.92	35.86	54.00	-18.14
2390.00	Peak	46.81	0.92	47.73	74.00	-26.27

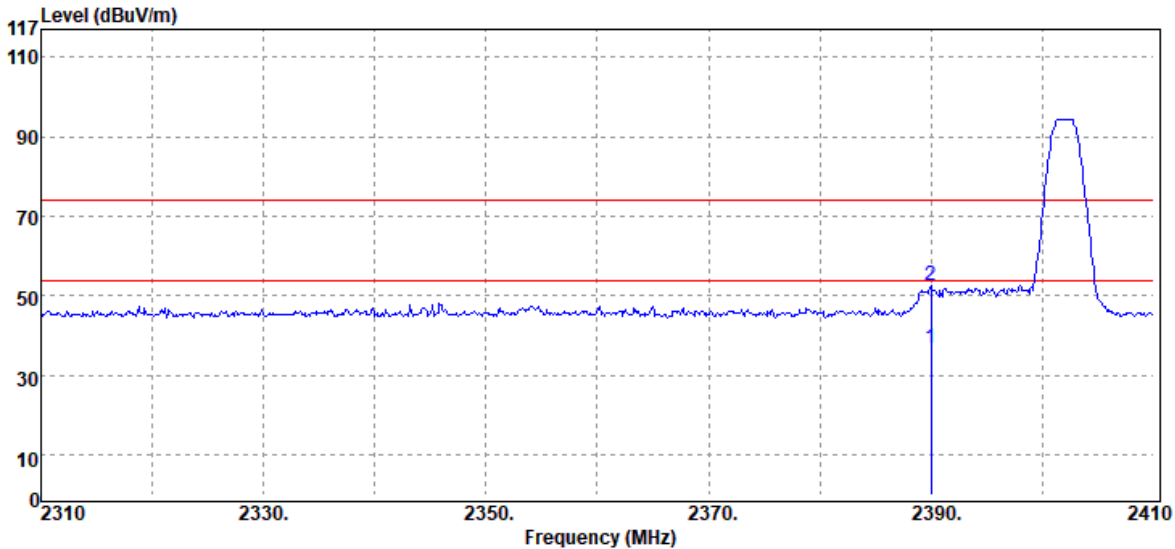
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Report Number :ER-2020-B0045
 Operation Mode :BLE(2M)
 Test Frequency :2402 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :H Plane

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
2390.00	Average	35.79	0.92	36.71	54.00	-17.29
2390.00	Peak	51.68	0.92	52.60	74.00	-21.40

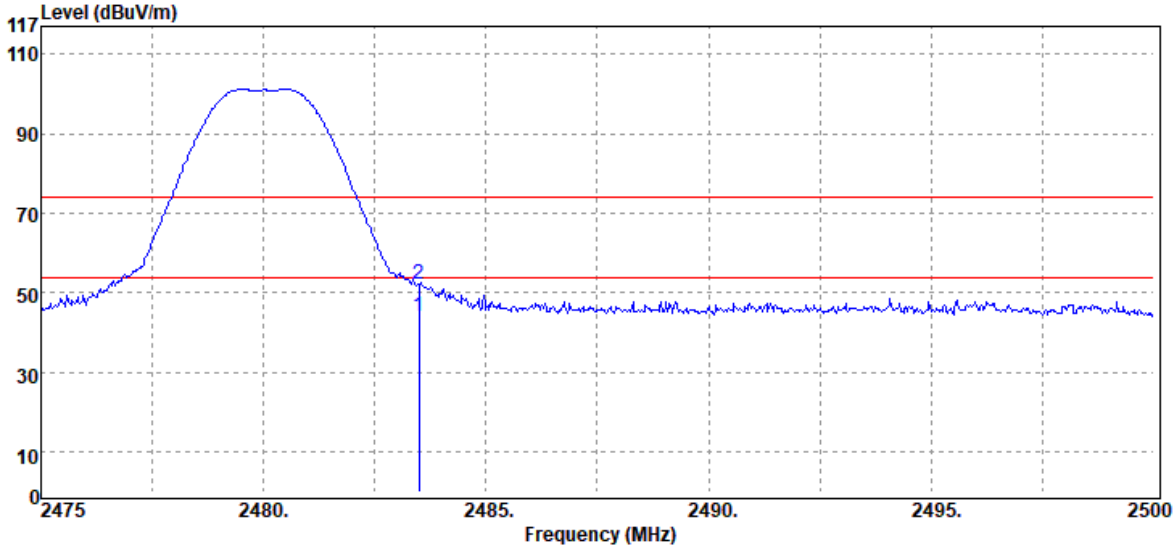
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Report Number :ER-2020-B0045
 Operation Mode :BLE(2M)
 Test Frequency :2480 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	43.65	0.67	44.32	54.00	-9.68
2483.50	Peak	51.62	0.67	52.29	74.00	-21.71

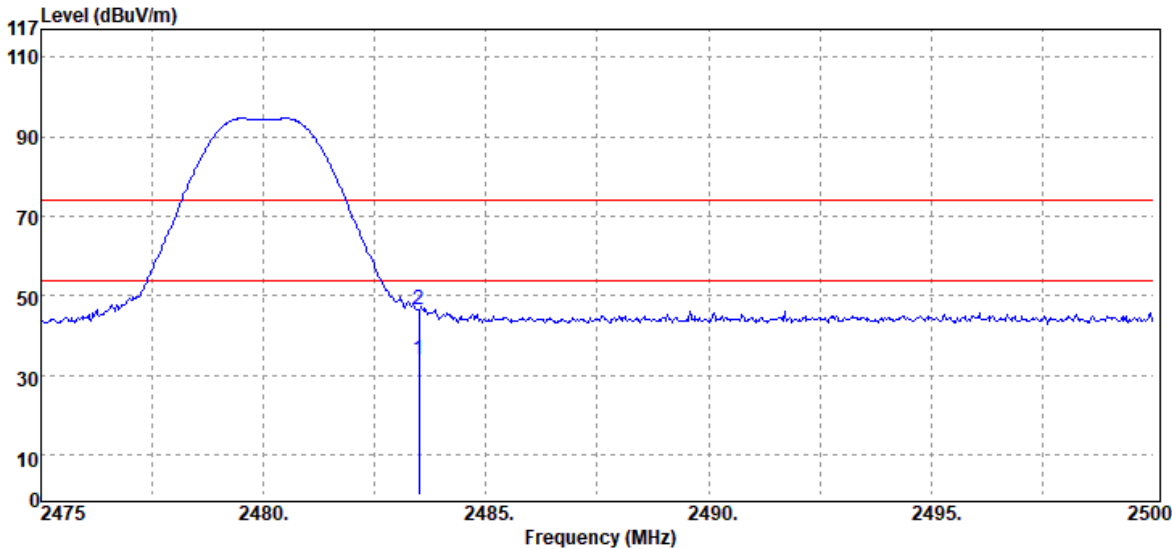
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Report Number :ER-2020-B0045
 Operation Mode :BLE(2M)
 Test Frequency :2480 MHz
 Test Mode :Bandedge CH High
 EUT Pol :H Plane

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
2483.50	Average	33.14	0.67	33.81	54.00	-20.19
2483.50	Peak	45.74	0.67	46.41	74.00	-27.59

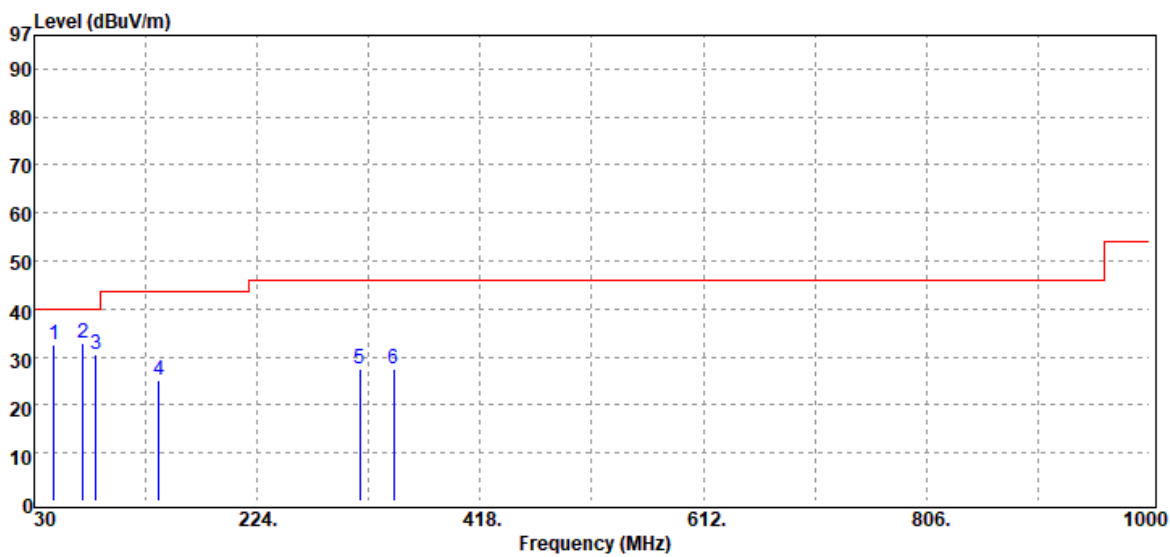
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10.7.2 Radiated Spurious Emission from 30MHz to 1000MHz

Report Number	:ER-2020-B0045	Test Site	:SAC III Chamber
Operation Mode	:BLE(1M)	Test Date	:2021-01-12
Test Frequency	:2442 MHz	Temp./Humi.	:21.0/39
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	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
47.46	Peak	40.68	-8.12	32.56	40.00	-7.44
72.68	Peak	43.67	-10.79	32.88	40.00	-7.12
83.35	Peak	43.51	-12.95	30.56	40.00	-9.44
138.64	Peak	32.76	-7.71	25.05	43.50	-18.45
313.24	Peak	33.25	-5.89	27.36	46.00	-18.64
342.34	Peak	32.56	-4.95	27.61	46.00	-18.39

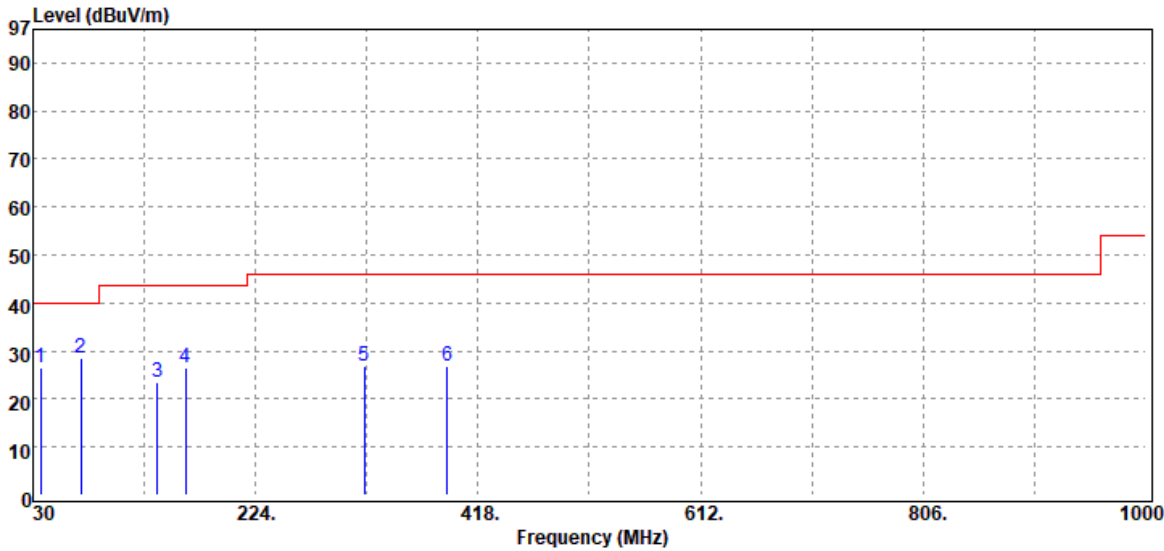
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Report Number :ER-2020-B0045
 Operation Mode :BLE(1M)
 Test Frequency :2442 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

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	35.36	-8.93	26.43	40.00	-13.57
71.71	Peak	39.23	-10.62	28.61	40.00	-11.39
138.64	Peak	31.09	-7.71	23.38	43.50	-20.12
162.89	Peak	33.67	-7.29	26.38	43.50	-17.12
319.06	Peak	32.79	-5.77	27.02	46.00	-18.98
390.84	Peak	31.21	-4.43	26.78	46.00	-19.22

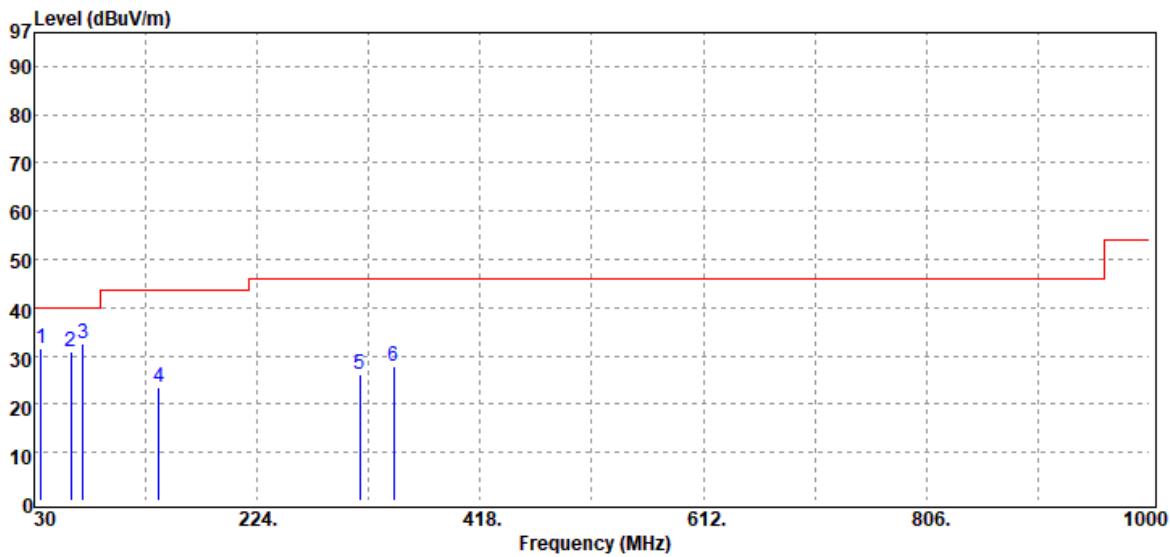
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Report Number :ER-2020-B0045
 Operation Mode :BLE(2M)
 Test Frequency :2442 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

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 d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
35.82	Peak	40.56	-8.88	31.68	40.00	-8.32
62.01	Peak	39.96	-9.06	30.90	40.00	-9.10
72.68	Peak	43.43	-10.79	32.64	40.00	-7.36
138.64	Peak	31.36	-7.71	23.65	43.50	-19.85
313.24	Peak	32.18	-5.89	26.29	46.00	-19.71
342.34	Peak	32.95	-4.95	28.00	46.00	-18.00

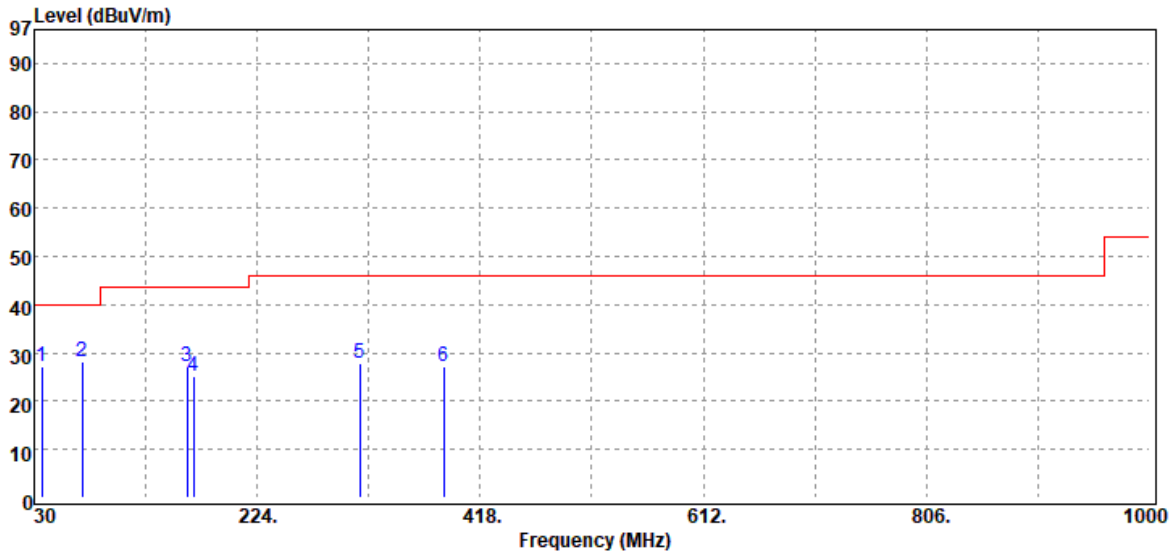
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Report Number :ER-2020-B0045
 Operation Mode :BLE(2M)
 Test Frequency :2442 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

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 dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.79	Peak	36.11	-8.93	27.18	40.00	-12.82
71.71	Peak	38.77	-10.62	28.15	40.00	-11.85
162.89	Peak	34.36	-7.29	27.07	43.50	-16.43
168.71	Peak	32.87	-7.64	25.23	43.50	-18.27
313.24	Peak	33.89	-5.89	28.00	46.00	-18.00
385.99	Peak	31.75	-4.50	27.25	46.00	-18.75

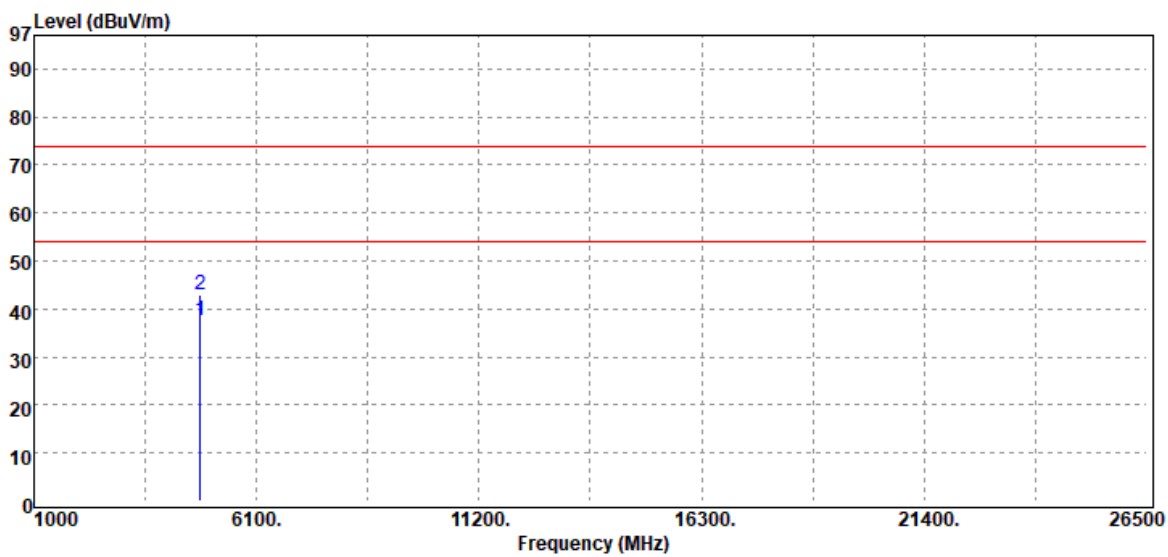
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10.7.3 Radiated Spurious Emission above 1GHz

Report Number	:ER-2020-B0045	Test Site	:SAC III Chamber
Operation Mode	:BLE(1M)	Test Date	:2021-01-12
Test Frequency	:2402 MHz	Temp./Humi.	:21.0/39
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	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
4804.00	Average	30.39	7.14	37.53	54.00	-16.47
4804.00	Peak	35.97	7.14	43.11	74.00	-30.89

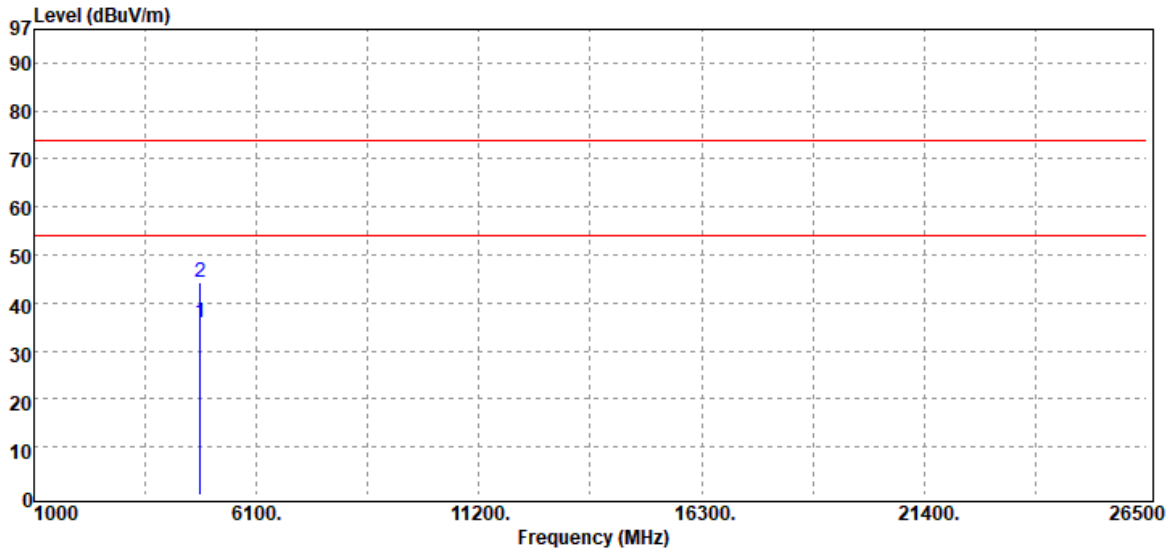
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Report Number :ER-2020-B0045
 Operation Mode :BLE(1M)
 Test Frequency :2402 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

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
4804.00	Average	28.81	7.14	35.95	54.00	-18.05
4804.00	Peak	37.32	7.14	44.46	74.00	-29.54

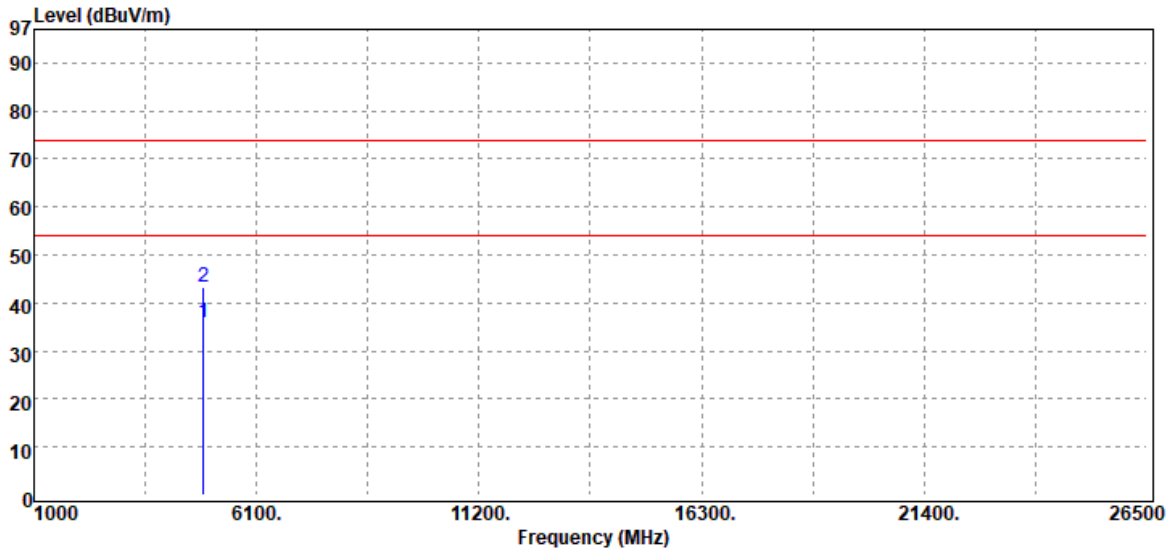
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Report Number :ER-2020-B0045
 Operation Mode :BLE(1M)
 Test Frequency :2442 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.00	Average	28.36	7.67	36.03	54.00	-17.97
4884.00	Peak	35.78	7.67	43.45	74.00	-30.55

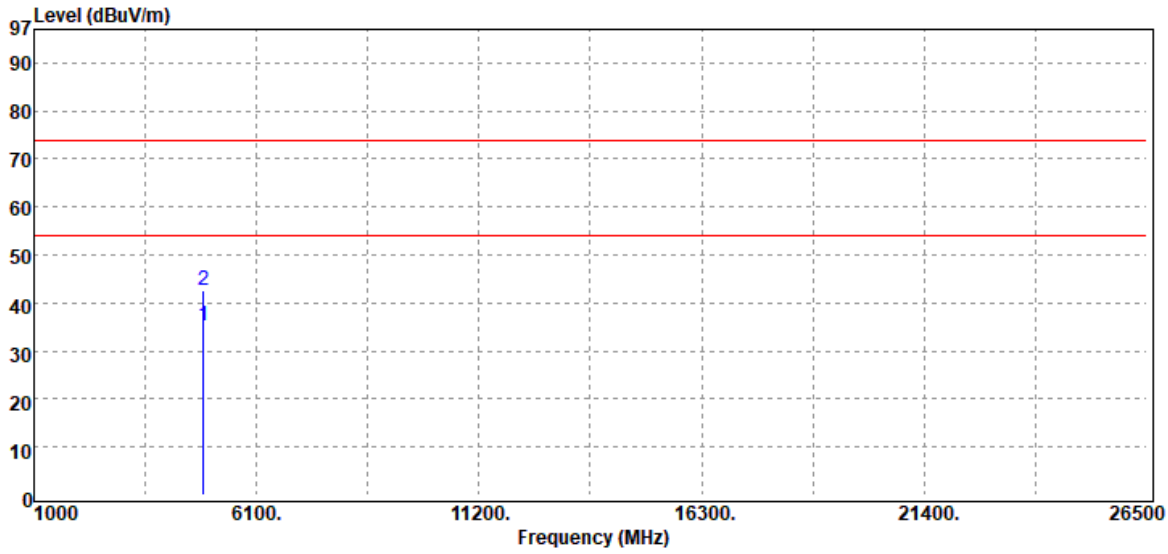
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Report Number :ER-2020-B0045
 Operation Mode :BLE(1M)
 Test Frequency :2442 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

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
4884.00	Average	27.72	7.67	35.39	54.00	-18.61
4884.00	Peak	35.09	7.67	42.76	74.00	-31.24

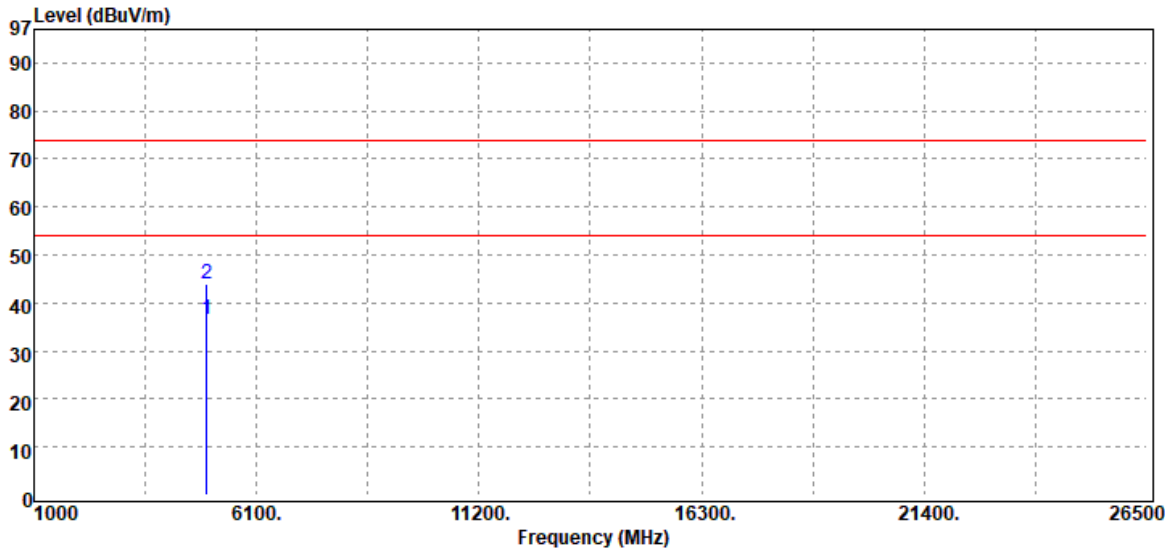
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Report Number :ER-2020-B0045
 Operation Mode :BLE(1M)
 Test Frequency :2480 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Average	28.69	7.94	36.63	54.00	-17.37
4960.00	Peak	36.02	7.94	43.96	74.00	-30.04

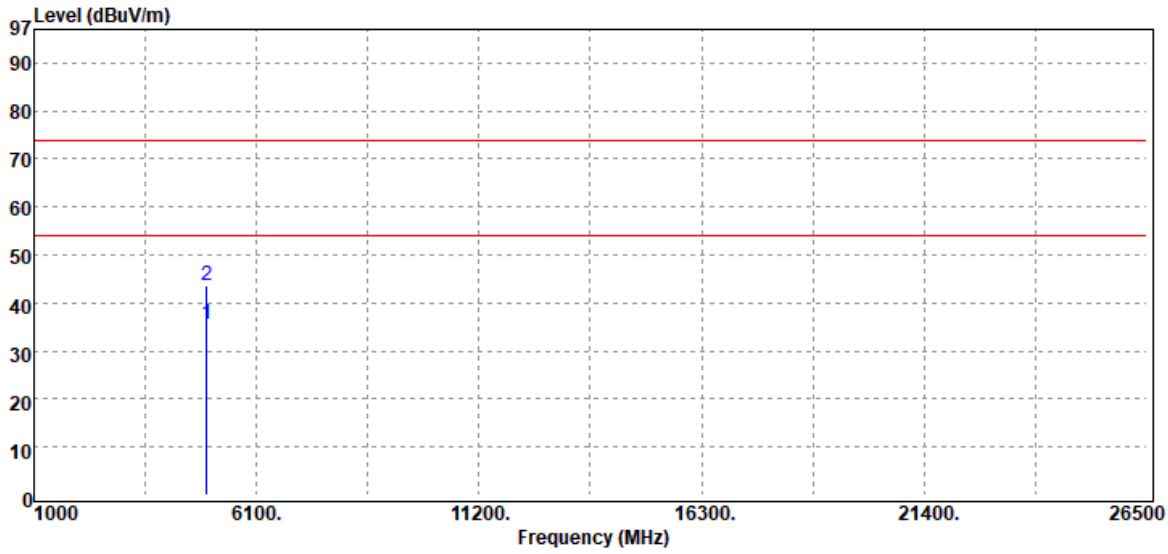
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Report Number :ER-2020-B0045
 Operation Mode :BLE(1M)
 Test Frequency :2480 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

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
4960.00	Average	27.63	7.94	35.57	54.00	-18.43
4960.00	Peak	35.80	7.94	43.74	74.00	-30.26

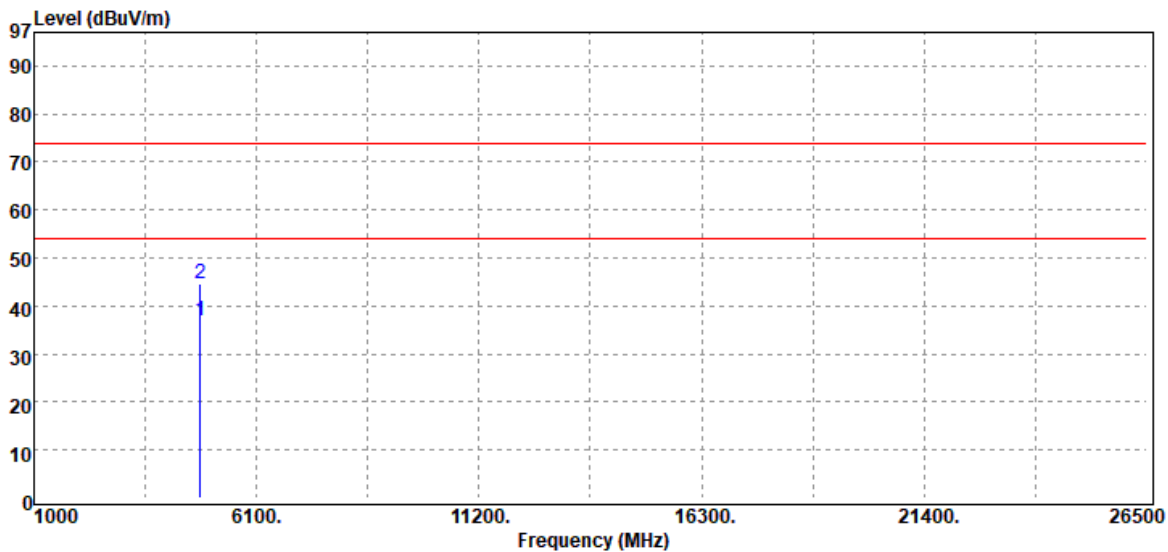
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Report Number :ER-2020-B0045
 Operation Mode :BLE(2M)
 Test Frequency :2402 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Average	29.74	7.14	36.88	54.00	-17.12
4804.00	Peak	37.56	7.14	44.70	74.00	-29.30

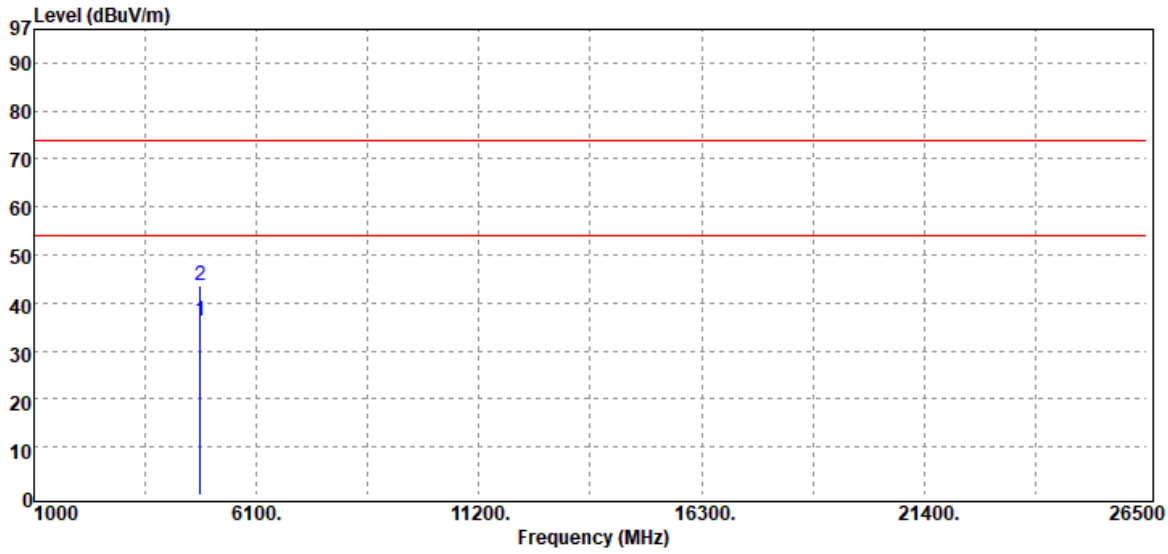
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Report Number :ER-2020-B0045
 Operation Mode :BLE(2M)
 Test Frequency :2402 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

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
4804.00	Average	29.11	7.14	36.25	54.00	-17.75
4804.00	Peak	36.49	7.14	43.63	74.00	-30.37

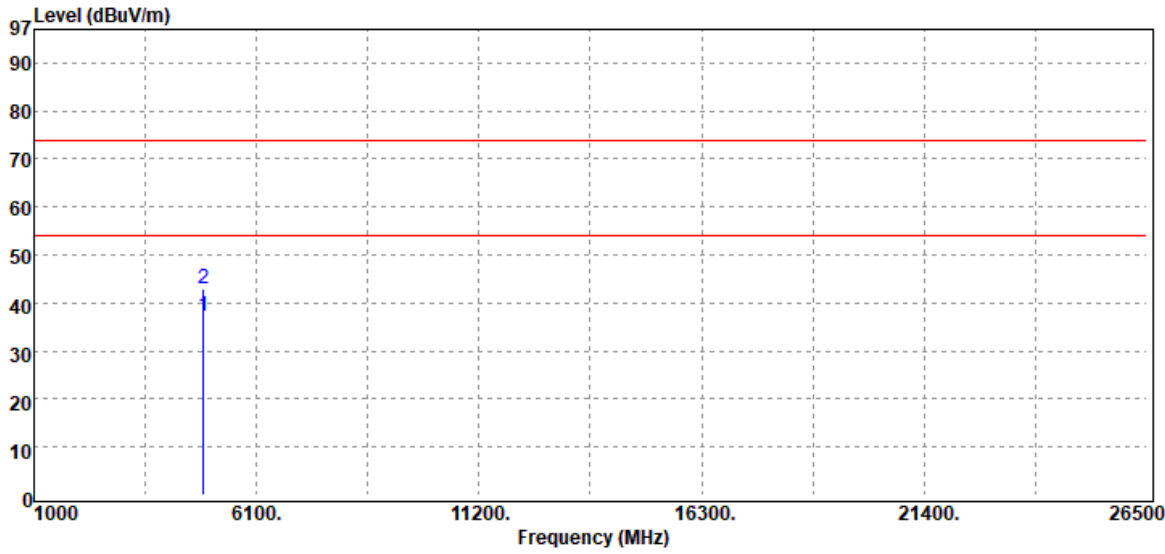
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Report Number :ER-2020-B0045
 Operation Mode :BLE(2M)
 Test Frequency :2442 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.00	Average	29.46	7.67	37.13	54.00	-16.87
4884.00	Peak	35.26	7.67	42.93	74.00	-31.07

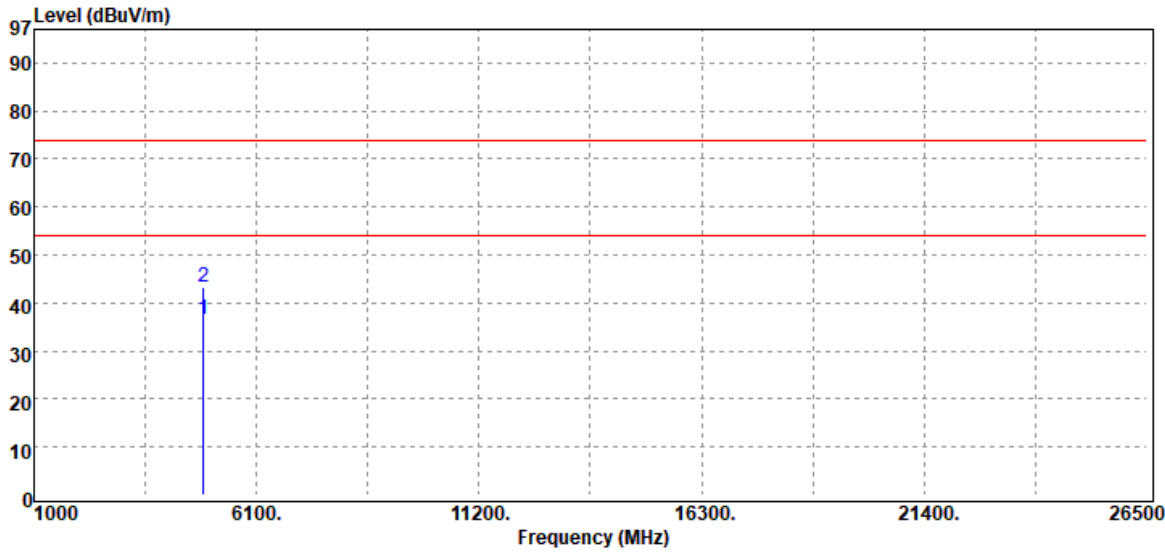
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Report Number :ER-2020-B0045
 Operation Mode :BLE(2M)
 Test Frequency :2442 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

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
4884.00	Average	28.99	7.67	36.66	54.00	-17.34
4884.00	Peak	35.58	7.67	43.25	74.00	-30.75

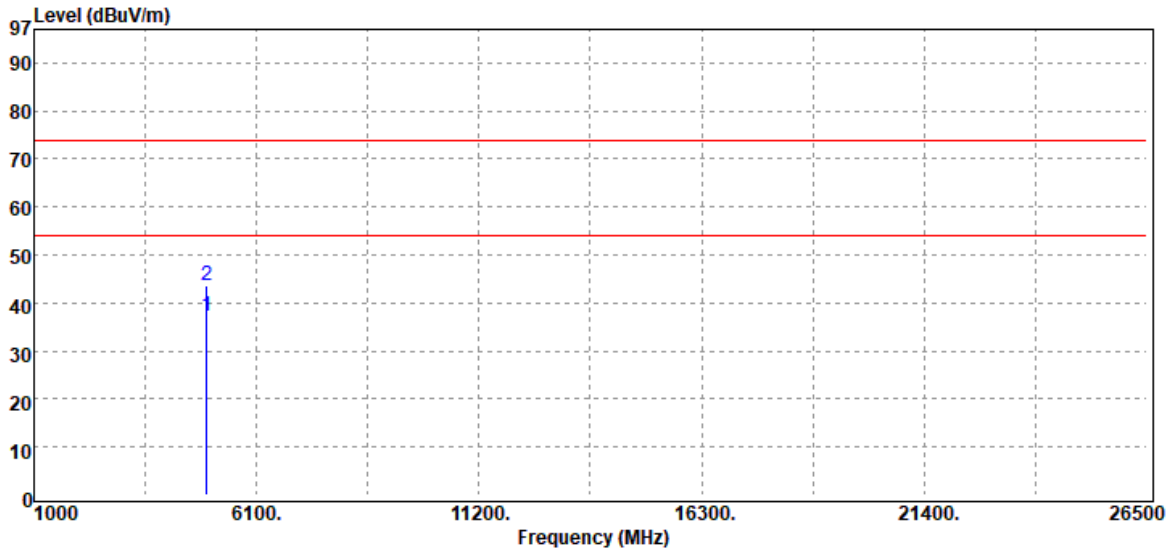
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Report Number :ER-2020-B0045
 Operation Mode :BLE(2M)
 Test Frequency :2480 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Average	29.47	7.94	37.41	54.00	-16.59
4960.00	Peak	35.77	7.94	43.71	74.00	-30.29

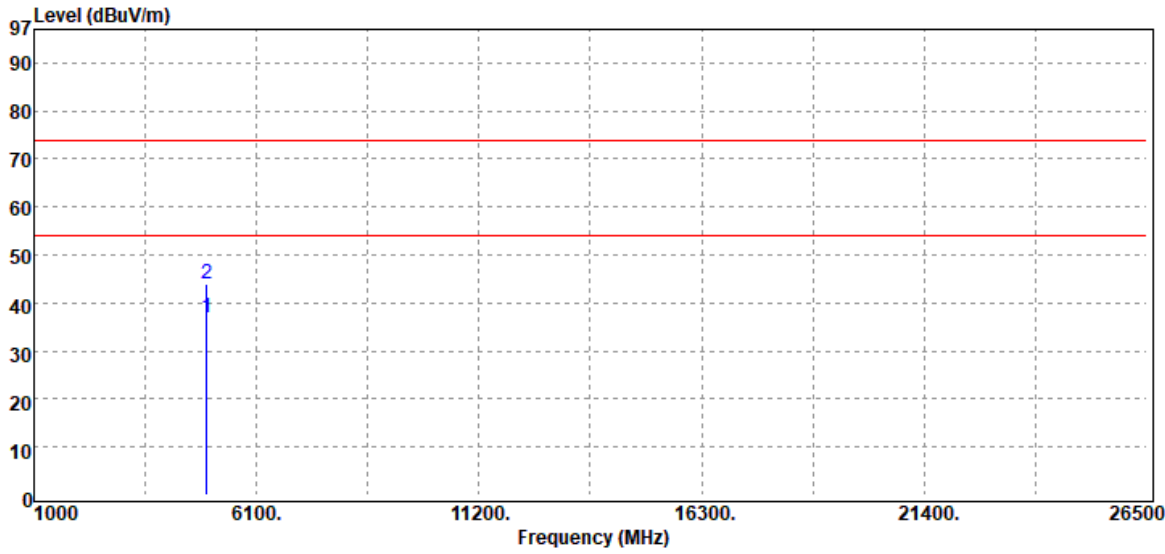
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Report Number :ER-2020-B0045
 Operation Mode :BLE(2M)
 Test Frequency :2480 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

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
4960.00	Average	29.03	7.94	36.97	54.00	-17.03
4960.00	Peak	35.94	7.94	43.88	74.00	-30.12

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11 POWER SPECTRAL DENSITY

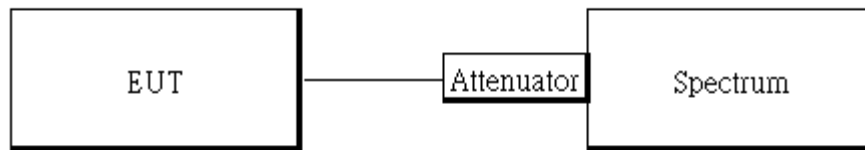
11.1 Standard Applicable:

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

11.2 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
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

11.3 Test Set-up:



11.4 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. & the 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.

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11.5 Measurement Result:

BLE

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-6.95	8	PASS
2442	-7.00	8	PASS
2480	-7.11	8	PASS

NOTE: cable loss as 0.6dB that offsets in the spectrum

BLE 2M

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2402	-9.96	8	PASS
2442	-9.95	8	PASS
2480	-10.07	8	PASS

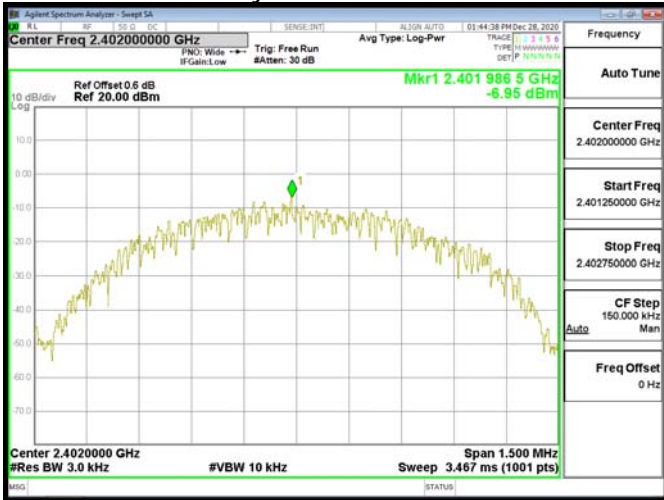
NOTE: cable loss as 0.6dB that offsets in the spectrum

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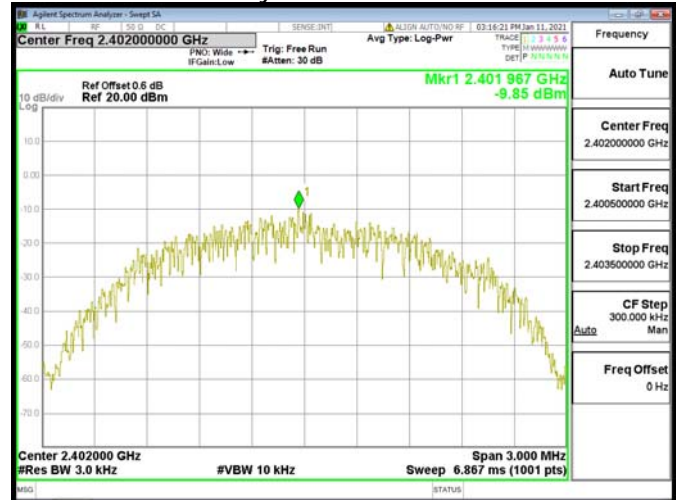
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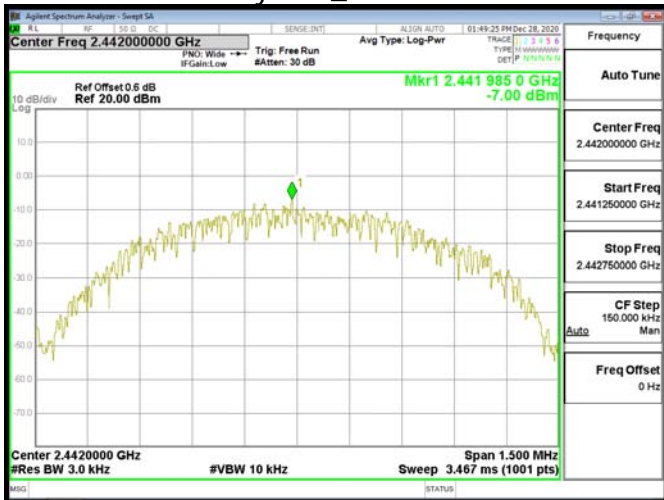
Power Density\BLE_1M\LowCH00-2402



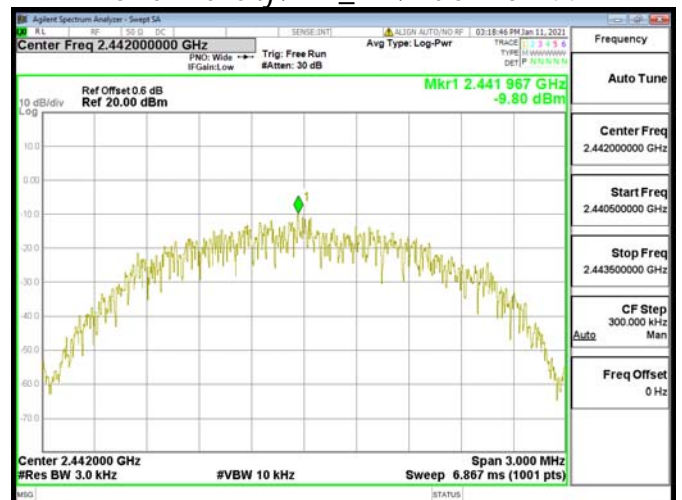
Power Density\BLE_2M\LowCH00-2402



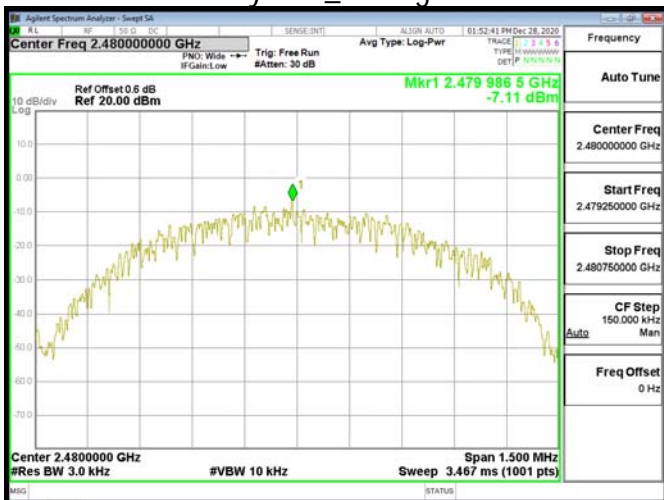
Power Density\BLE_1M\MidCH20-2442



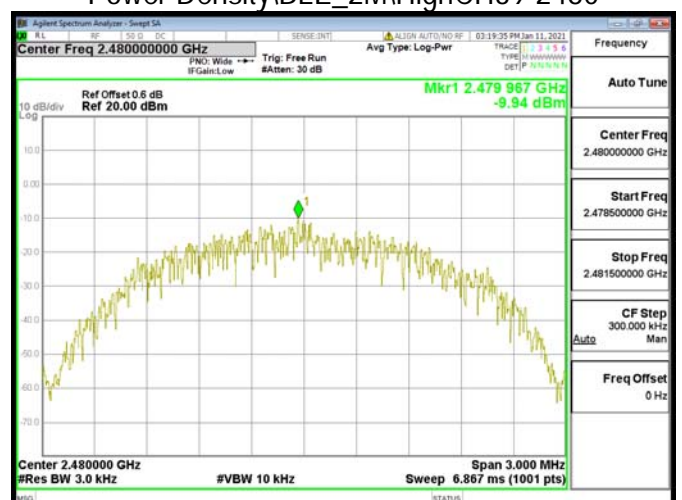
Power Density\BLE_2M\MidCH20-2442



Power Density\BLE_1M\HighCH39-2480



Power Density\BLE_2M\HighCH39-2480



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12 ANTENNA REQUIREMENT

12.1 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.

12.2 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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