

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Applicant: GOOGLE LLC
1600 AMPHITHEATRE PARKWAY MOUNTAIN VIEW , CALIFORNIA
94043

Product Name: Glass Enterprise Edition 2

Brand Name: GLASS

Model No.: GG2

Model Difference: N/A

FCC ID: A4R-GG2

IC: 10395A-GG2

Report Number: E2/2018/80048

FCC Rule Part: §15.247, Cat: DTS

IC Rule Part: RSS-247 issue 2 Feb 2017

Issue Date: Nov. 05, 2018

Date of Test: Aug. 08, 2018 ~ Sep. 05, 2018

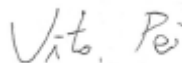
Date of EUT Received: Aug. 08, 2018

We hereby certify that:

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

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

Tested By:



Vito Pei / Engineer

Approved By:



Blue Yang / Supervisor



Testing Laboratory
0513

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/80048	Rev.00	Initial creation of document	All	Sep. 12, 2018	Yuri Tsai
E2/2018/80048	Rev.01	Updated Brand Name	1,4	Nov. 05, 2018	Yuri Tsai

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Glass Enterprise Edition 2	
Brand Name:	GLASS	
Model No.:	GG2	
Model difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
USB Cable:	Model No.: ABA-USB-702-P01, Supplier: Lotes	
Power Supply:	3.85Vdc from Rechargeable Li-ion Battery	
	Battery:	Pack Model No.: P-752438 Supplier: Dongguan Amperex Technology Limited

Bluetooth Low Energy:

Bluetooth Version:	Bluetooth V5.0 Dual mode
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	7.59dBm (BT 4.0) 7.92dBm (BT 5.0)
Frequency Range:	2402 – 2480MHz
Antenna Designation:	Monopole Antenna, Gain: 1.0dBi

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance v05.

RSS-Gen. issue 5 Apr. 2018

RSS-247 issue 2 Feb. 2017

ANSI C63.10:2013

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

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration and Designation number are: 735305 / TW0002

Canada Registration Number: 4620E-1

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plan. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207 & RSS-Gen §8.8. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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2.5 Configuration of Tested System

Fig. 2-1 Conducted (Antenna Port) Emission Configuration

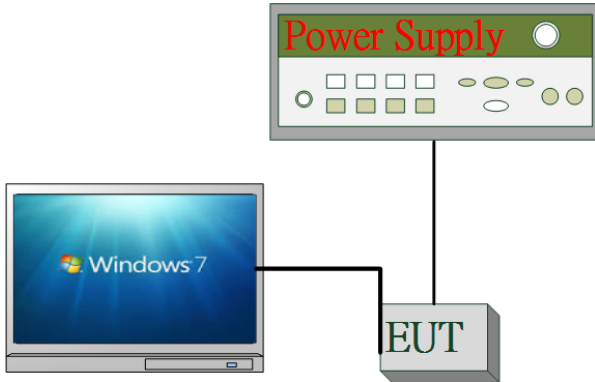


Fig 2-3 Conduction (AC Power Line) Conducted Emission



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-WR6X4	Shielded	Unshielded
3.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Unshielded

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §5.4(4)	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 (1) RSS-Gen §6.6	6dB & 99% Emission Bandwidth	Compliant
§15.247(d)	RSS-247 §5.5	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	RSS-247 §5.5	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2(2)	Peak Power Density	Compliant
§15.203 §15.247(b)	RSS- Gen §6.8	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.

RADIATED EMISSION TEST:

MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Mbps)
RADIATED EMISSION TEST (BELOW 1 GHz)				
Bluetooth LE	2402 to 2480	2402, 2442, 2480	GFSK	1
Bluetooth LE	2402 to 2480	2402, 2442, 2480	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
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 E2 position was reported.				

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST				
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	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 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.
LISN	TESEQ	NNB 51	36076	2018/02/14	2019/02/13
EMI Test Receiver	R&S	ESCI	101300	2017/11/02	2018/11/01

6.3 EUT Setup:

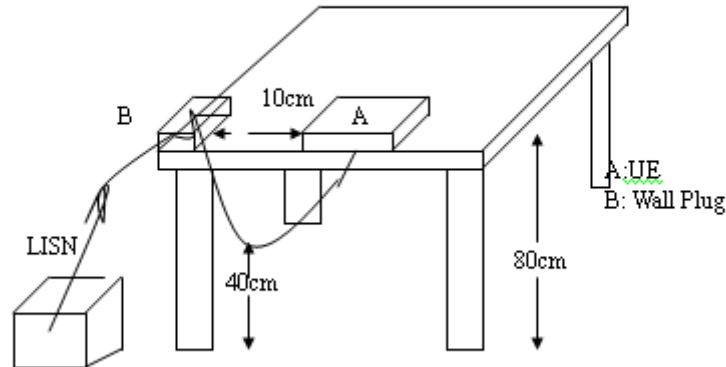
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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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 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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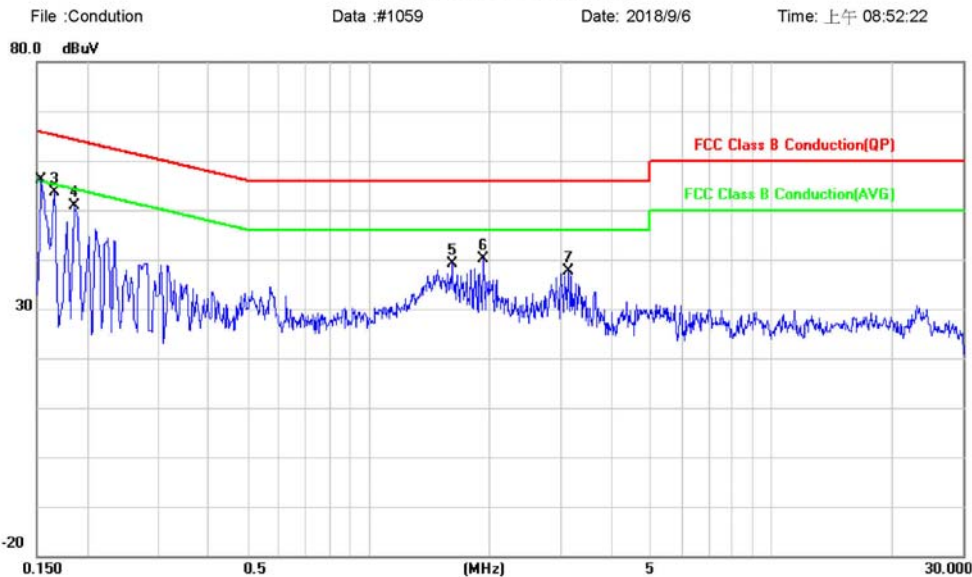
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Site : Conduction Room	Phase: L1	Temperature: 22 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 64 %
Mode:		
Note:		

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1540	34.60	19.65	54.25	65.78	-11.53	QP	
2		0.1540	18.00	19.65	37.65	55.78	-18.13	AVG	
3		0.1660	33.87	19.67	53.54	65.16	-11.62	peak	
4		0.1860	31.13	19.70	50.83	64.21	-13.38	peak	
5		1.6180	18.82	20.27	39.09	56.00	-16.91	peak	
6		1.9380	19.61	20.51	40.12	56.00	-15.88	peak	
7		3.1500	17.20	20.33	37.53	56.00	-18.47	peak	

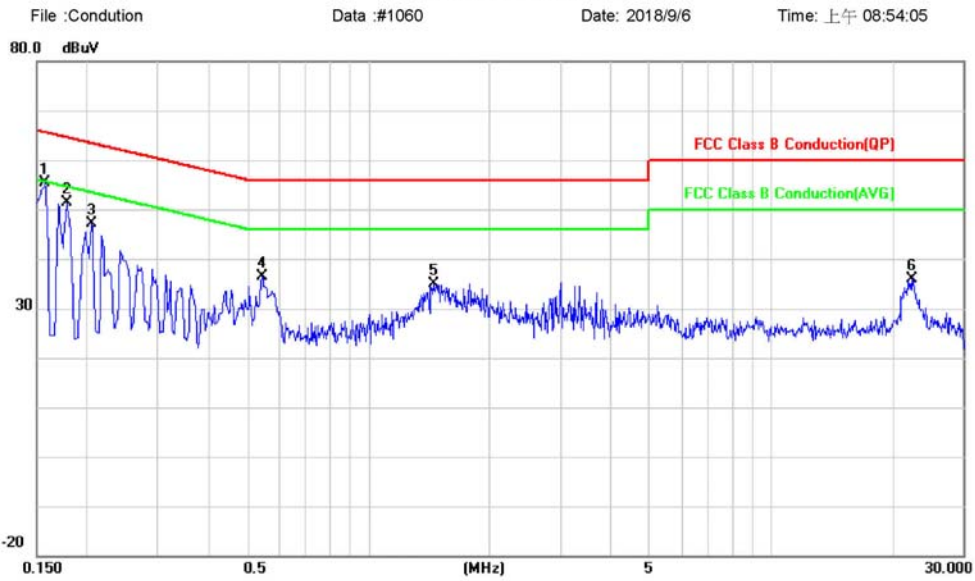
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Site : Conduction Room	Phase: N	Temperature: 22 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 64 %
Mode:		
Note:		

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1580	35.75	19.66	55.41	65.57	-10.16	peak	
2		0.1780	31.71	19.69	51.40	64.58	-13.18	peak	
3		0.2060	27.46	19.74	47.20	63.37	-16.17	peak	
4		0.5460	16.22	20.19	36.41	56.00	-19.59	peak	
5		1.4500	14.66	20.15	34.81	56.00	-21.19	peak	
6		22.2980	15.67	20.15	35.82	60.00	-24.18	peak	

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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.

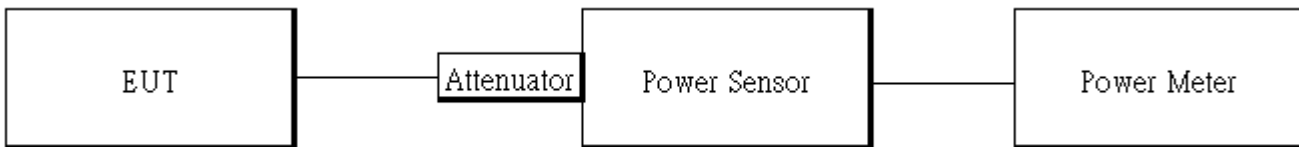
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

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	1326001	2018/08/09	2019/08/02
Power Sensor	Anritsu	MA2411B	1315048	2018/08/09	2019/08/02
Power Sensor	Anritsu	MA2411B	1315049	2018/08/09	2019/08/02
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29

7.3 Test Set-up:



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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 & ANSI C63.10..
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 Power Meter.
5. Repeat above procedures until all test default channel measured was complete.

Formula:

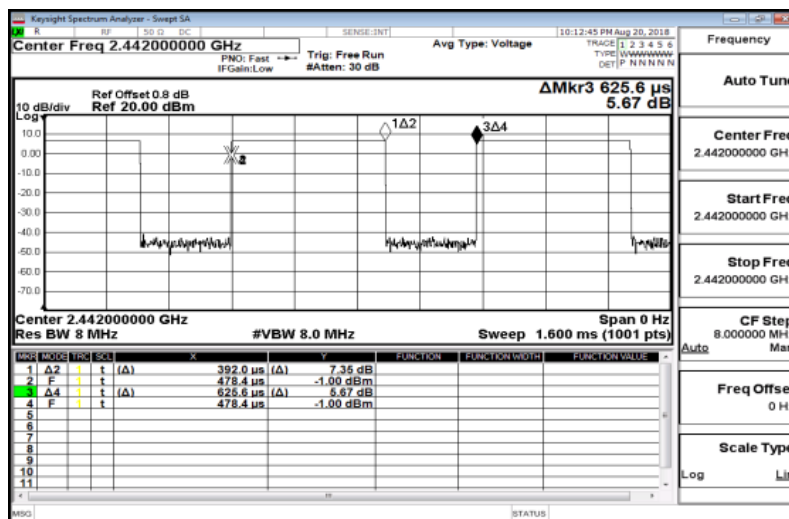
Duty Cycle = Ton / (Ton+Toff)

BLE MODE:

Duty Factor:

	Duty Cycle (%)	Duty Factor (dB)	1/T (kHz)	VBW setting (kHz)
BLE	62.66	2.03	2.55	3.00

Duty Cycle_BLE_1M_LowCH00-2402



Duty Cycle Factor: $10 * \log(1/(62.66/100)) = 2.03$

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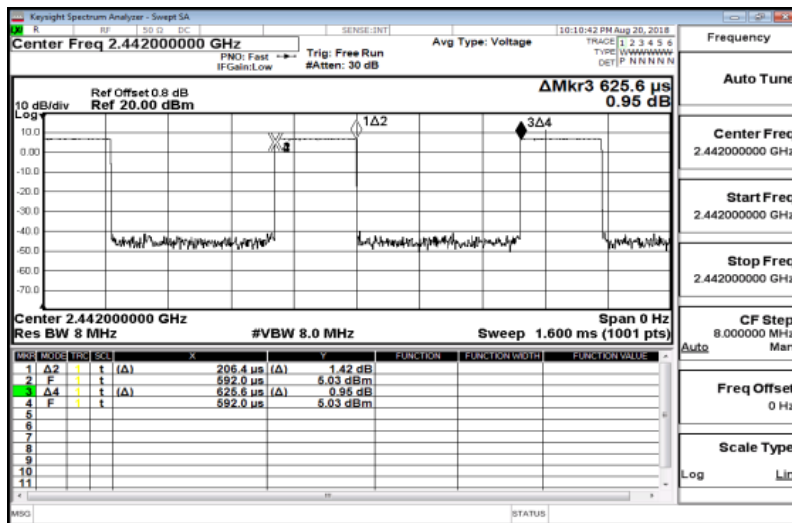
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BT 5.0 MODE:

Duty Factor:

	Duty Cycle (%)	Duty Factor (dB)	1/T (kHz)	VBW setting (kHz)
BLE	32.99	4.82	4.84	5.00

Duty Cycle_BLE_1M_LowCH00-2402



Duty Cycle Factor: $10 * \log(1/(32.99/100)) = 4.82$

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7.5 Measurement Result:

BLE MODE:

BLE mode:

CH	Frequency (MHz)	Peak Power Output (dBm)	Required Limit
0	2402	6.91	1 Watt = 30 dBm
20	2442	6.44	1 Watt = 30 dBm
39	2480	7.59	1 Watt = 30 dBm

BLE mode:

CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit
0	2402	6.74	1 Watt = 30 dBm
20	2442	6.34	1 Watt = 30 dBm
39	2480	7.28	1 Watt = 30 dBm

*Note: Measured by power meter, cable loss as 0.8 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

EIRP

CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
0	2402	6.74	1.00	7.74	4W= 36 dBm
20	2442	6.34	1.00	7.34	4W= 36 dBm
39	2480	7.28	1.00	8.28	4W= 36 dBm

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

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BT 5.0 MODE:
BLE mode:

CH	Frequency (MHz)	Peak Power Output (dBm)	Required Limit
0	2402	7.21	1 Watt = 30 dBm
20	2442	6.73	1 Watt = 30 dBm
39	2480	7.92	1 Watt = 30 dBm

BLE mode:

CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit
0	2402	6.89	1 Watt = 30 dBm
20	2442	6.09	1 Watt = 30 dBm
39	2480	7.37	1 Watt = 30 dBm

*Note: Measured by power meter, cable loss as 0.8 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

EIRP

CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
0	2402	6.89	1.00	7.89	4W= 36 dBm
20	2442	6.09	1.00	7.09	4W= 36 dBm
39	2480	7.37	1.00	8.37	4W= 36 dBm

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

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8 6DB & 99% BANDWIDTH MEASUREMENT

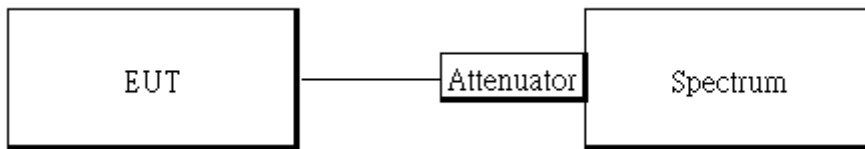
8.1 Standard Applicable

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.
Spectrum Analyzer	Agilent	N9010A	MY5144011 3	2018/06/20	2019/06/19
DC Power Supply	Agilent	E3640A	MY5314000 6	2018/05/30	2019/05/29

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 & ANSI C63.10.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- For 6dB Bandwidth:
Set the spectrum analyzer as RBW=100 kHz, VBW= 3*RBW, Span = 5MHz, Detector=Peak, Sweep=auto.
- Mark the peak frequency and -6dB (upper and lower) frequency.
- For 99% Bandwidth:
Set the spectrum analyzer as RBW=1%, VBW=3*RBW, Span = 2MHz, Detector=Sample, Sweep=auto.
- Turn on the 99% bandwidth function, max reading.
- Repeat above procedures until all test default channel is completed

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8.5 Measurement Result:

BLE MODE:

BLE mode

Frequency (MHz)	6dB BW (MHz)	BW (MHz)	Result
2402	0.6779	> 0.5	PASS
2442	0.6816	> 0.5	PASS
2480	0.6797	> 0.5	PASS

BLE mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.0351
2442	1.0343
2480	1.0346

BT 5.0 MODE:

BLE mode

Frequency (MHz)	6dB BW (MHz)	BW (MHz)	Result
2402	1.1452	> 0.5	PASS
2442	1.1516	> 0.5	PASS
2480	1.1498	> 0.5	PASS

BLE mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	2.035
2442	2.033
2480	2.0329

Note: Refer to next page for plots.

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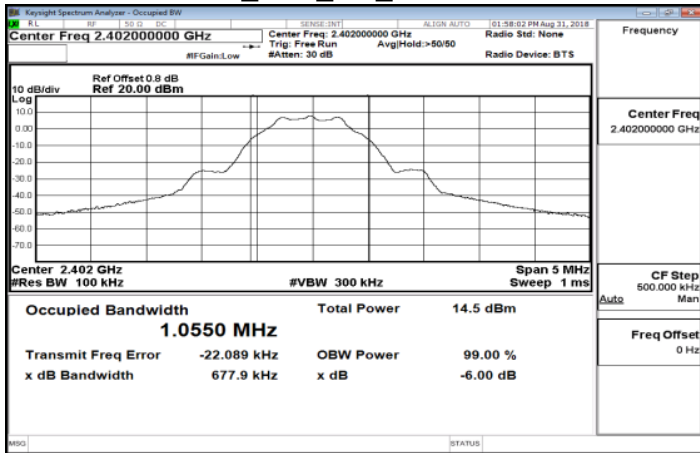
f (886-2) 2298-0488

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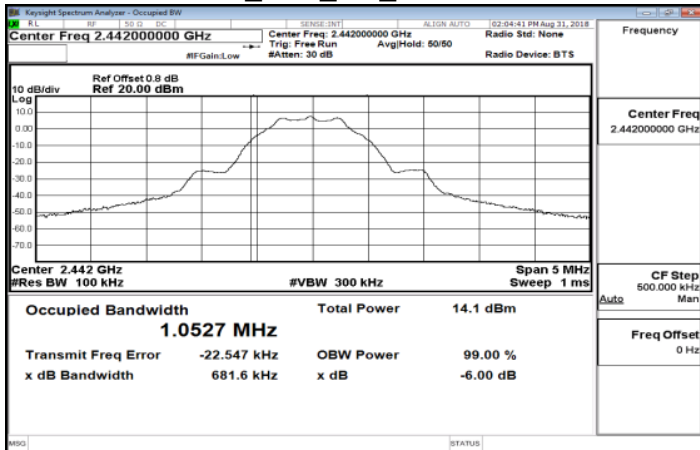
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BLE MODE:

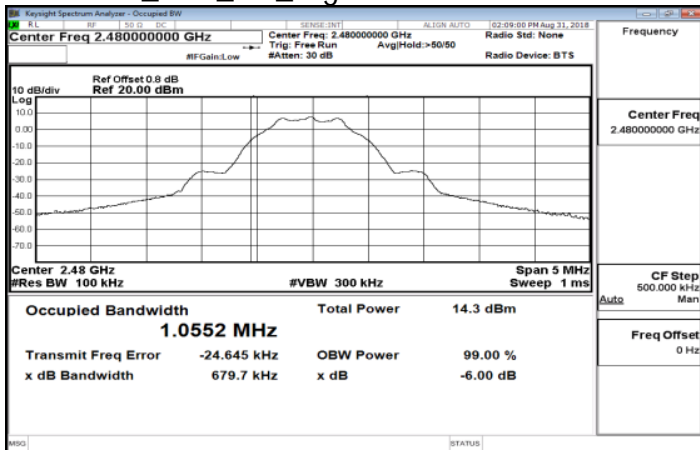
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OBW 6dB_BLE_1M_MidCH20-2442

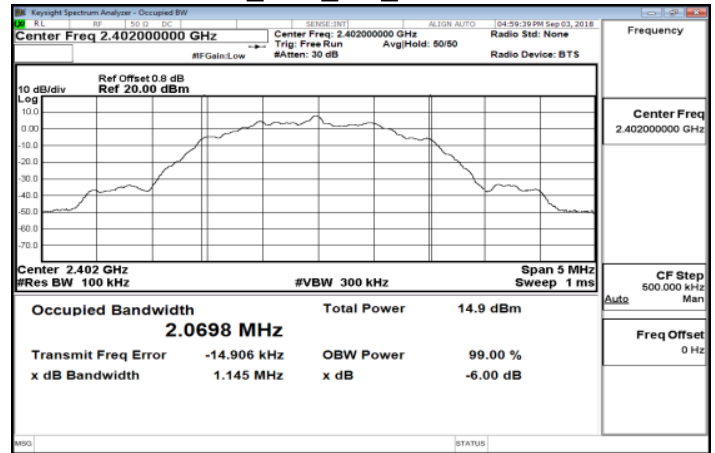


OBW 6dB_BLE_1M_HighCH39-2480

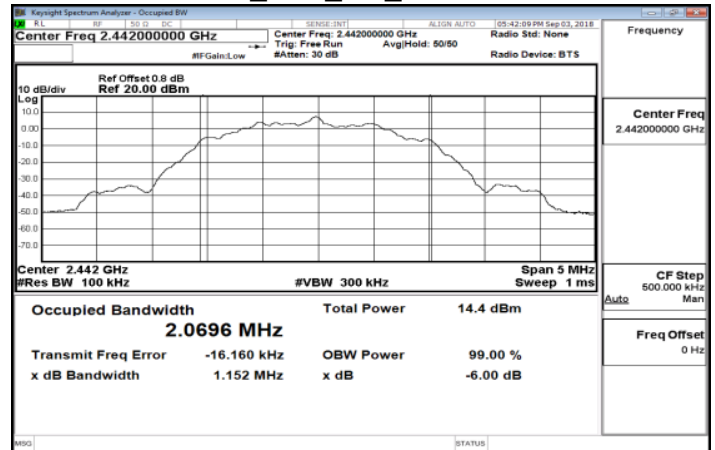


BT 5.0 MODE:

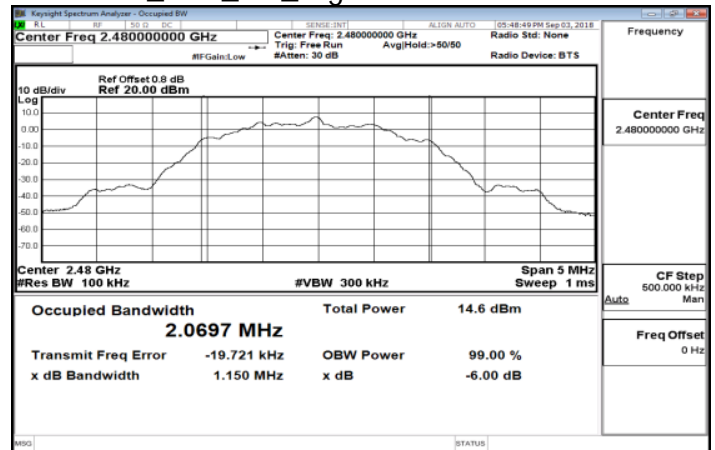
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OBW 6dB_BLE_1M_MidCH20-2442



OBW 6dB_BLE_1M_HighCH39-2480



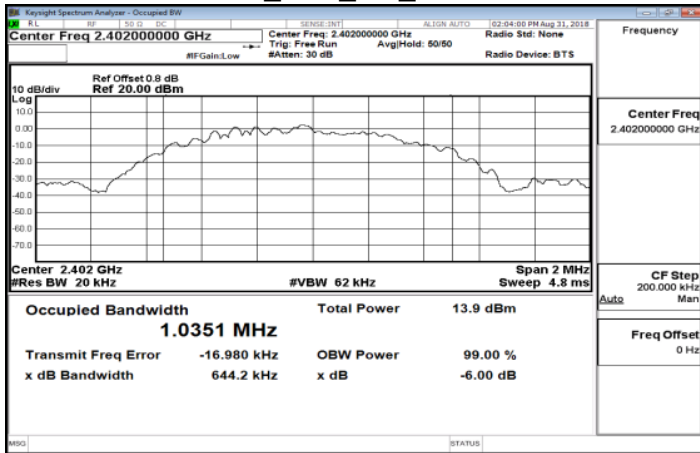
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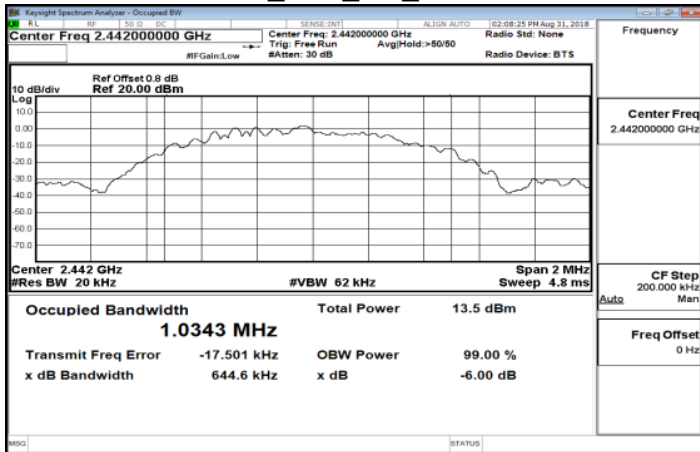
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BLE MODE:

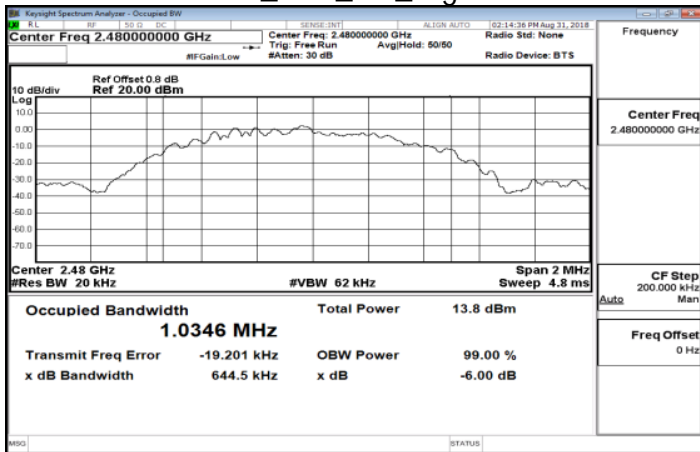
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IC OBW 99%_BLE_1M_MidCH20-2442

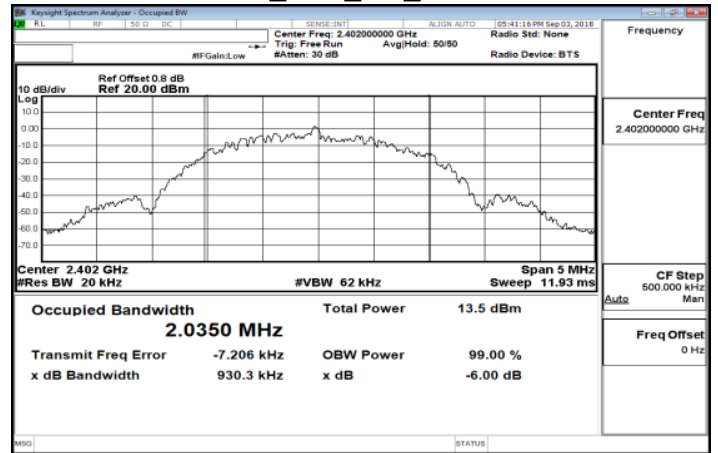


IC OBW 99%_BLE_1M_HighCH39-2480

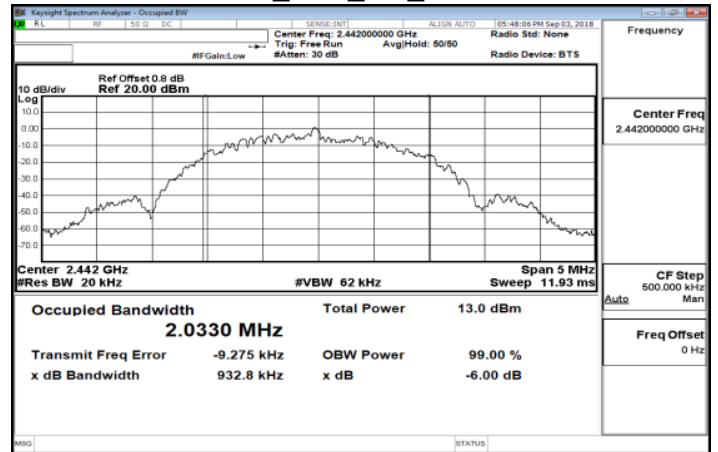


BT 5.0 MODE:

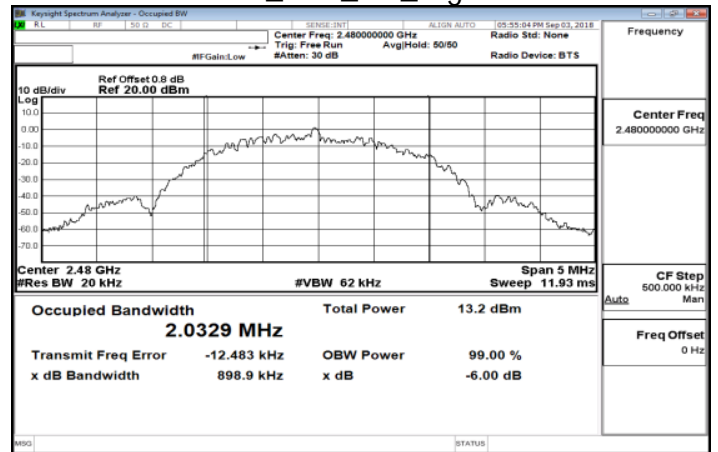
IC OBW 99%_BLE_1M_LowCH00-2402



IC OBW 99%_BLE_1M_MidCH20-2442



IC OBW 99%_BLE_1M_HighCH39-2480



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9 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

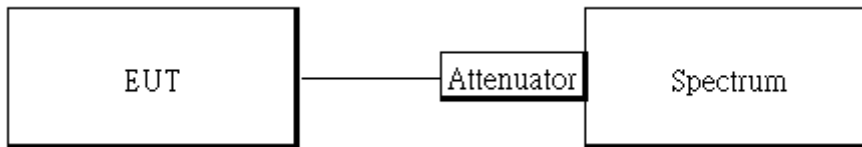
9.1 Standard Applicable

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 §8.8.

9.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29

9.3 Test SET-UP:



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9.4 Measurement Procedure

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

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance & ANSI C63.10.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
8. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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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 & ANSI C63.10.
3. Set RBW = 100 kHz & VBW=300 kHz, Detector =Peak, Sweep = Auto
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

9.5 Measurement Result

BLE MODE:

Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	7.71	-12.29
2442	7.33	-12.67
2480	7.56	-12.44

NOTE: cable loss as dB that offsets in the spectrum

BT 5.0 MODE:

Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	7.69	-12.31
2442	7.19	-12.81
2480	7.44	-12.56

NOTE: cable loss as dB that offsets in the spectrum

NOTE: Refer to next page for plots.

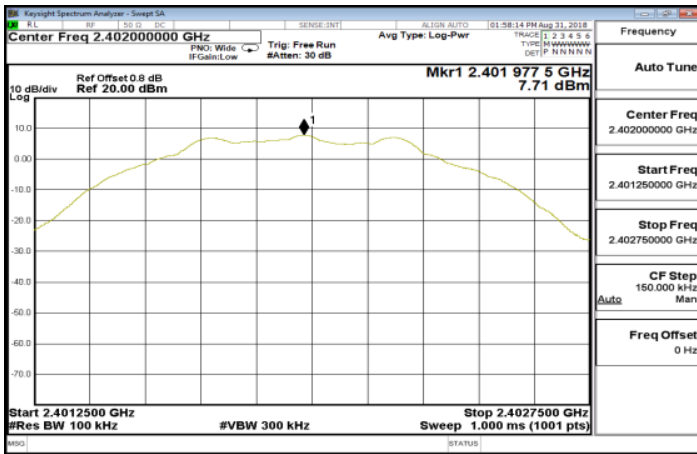
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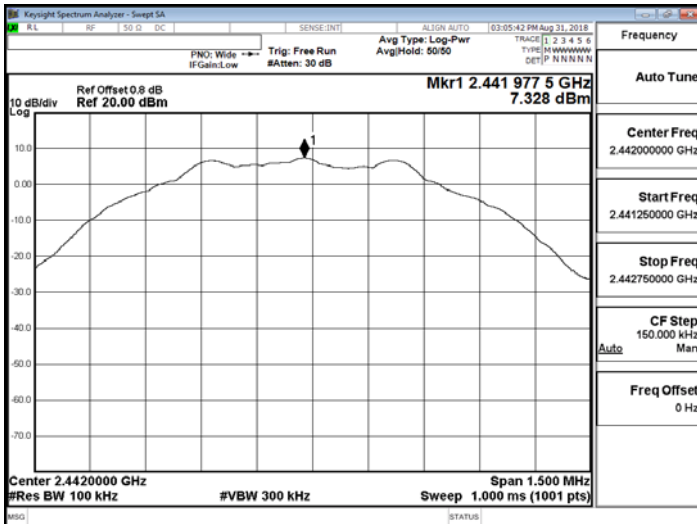
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BLE MODE:

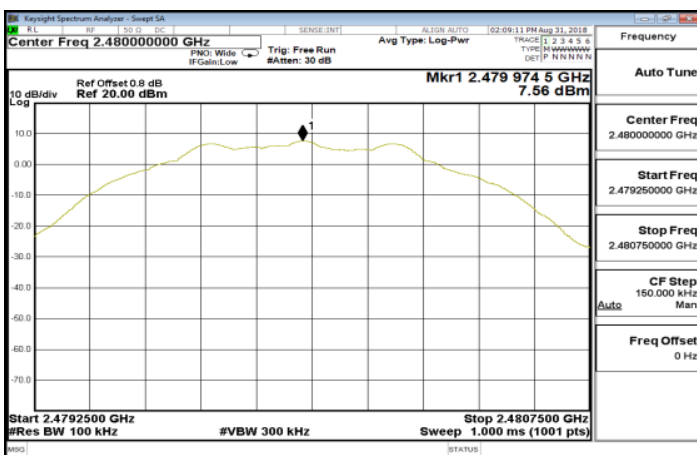
Reference Level_BLE_1M_LowCH00-2402



Reference Level_BLE_1M_MidCH20-2442

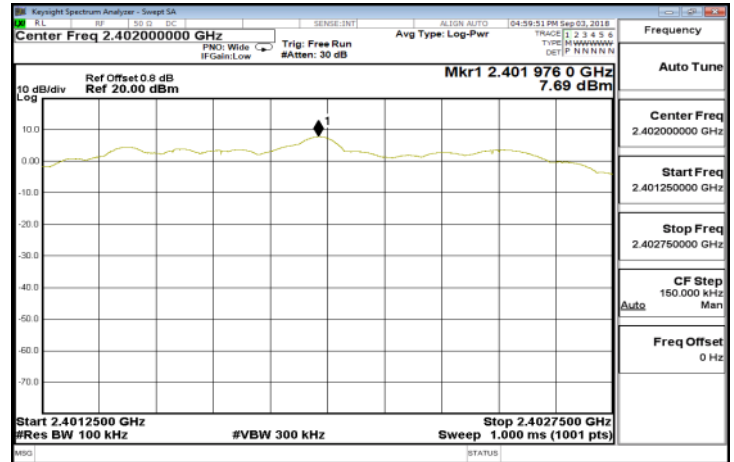


Reference Level_BLE_1M_HighCH39-2480

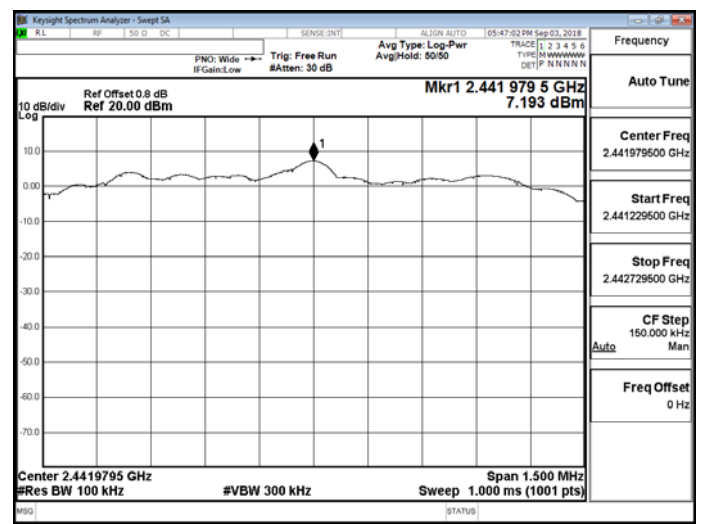


BT 5.0 MODE:

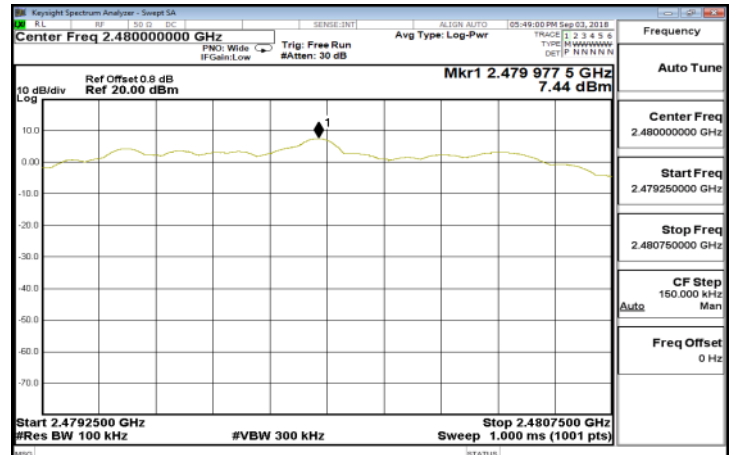
Reference Level_BLE_1M_LowCH00-2402



Reference Level_BLE_1M_MidCH20-2442



Reference Level_BLE_1M_HighCH39-2480



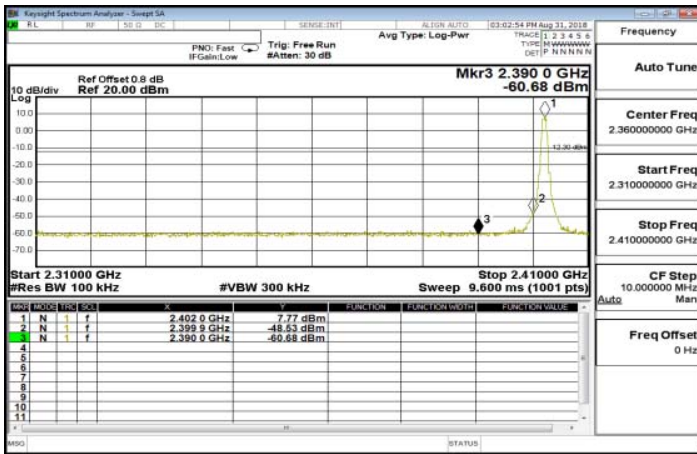
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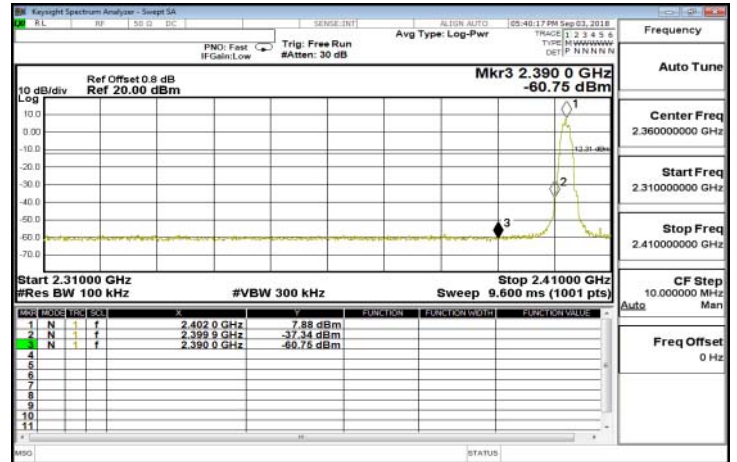
BLE MODE:

Band Edge_BLE_1M_LowCH00-2402

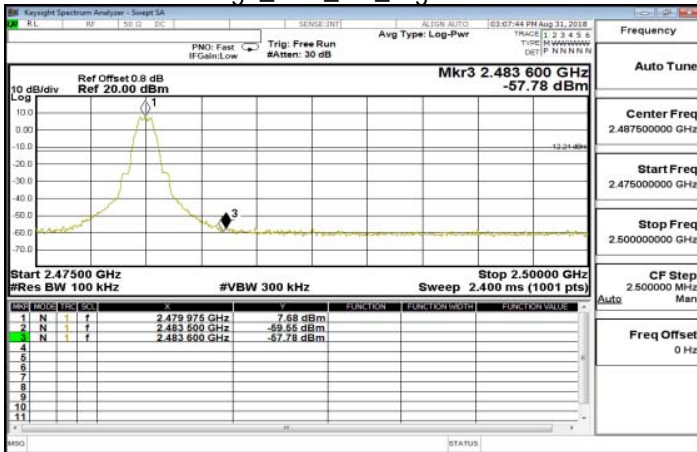


BT 5.0 MODE:

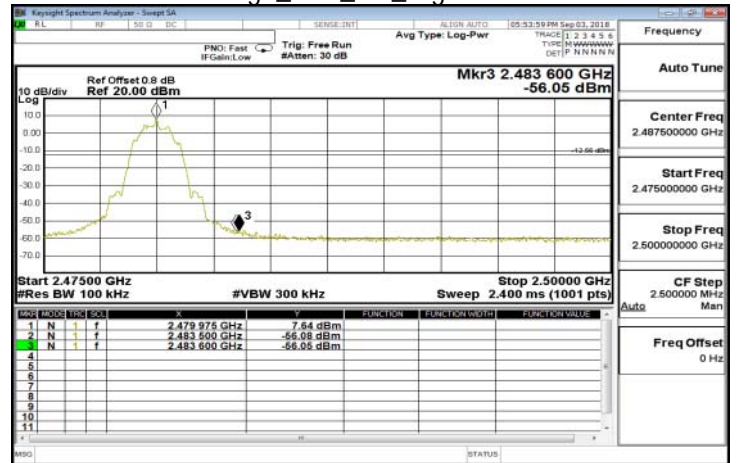
Band Edge_BLE_1M_LowCH00-2402



Band Edge_BLE_1M_HighCH39-2480



Band Edge_BLE_1M_HighCH39-2480



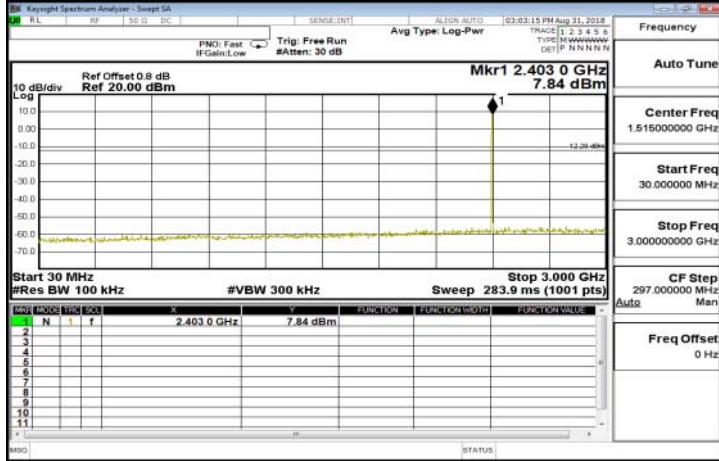
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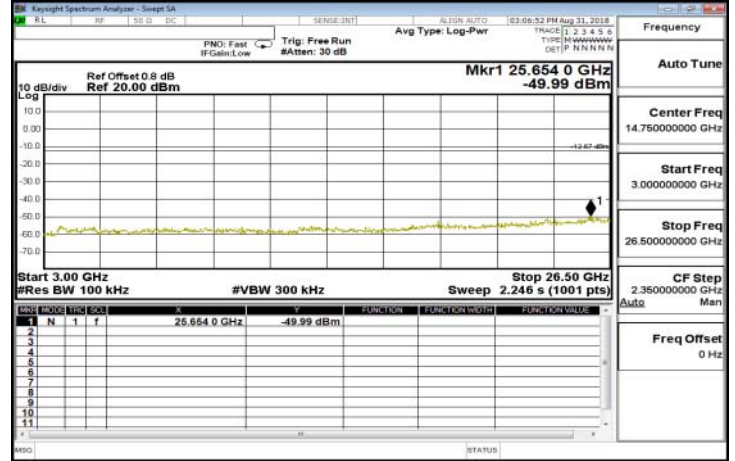
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Conducted Spurious Emission Measurement Result

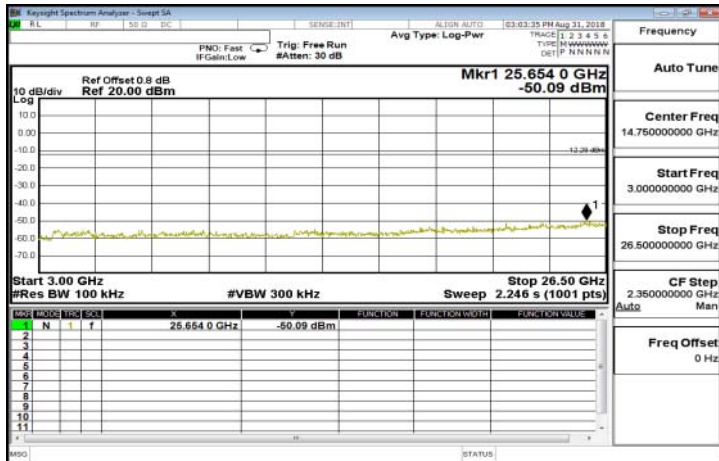
BLE MODE: CH-Low 30MHz – 3GHz



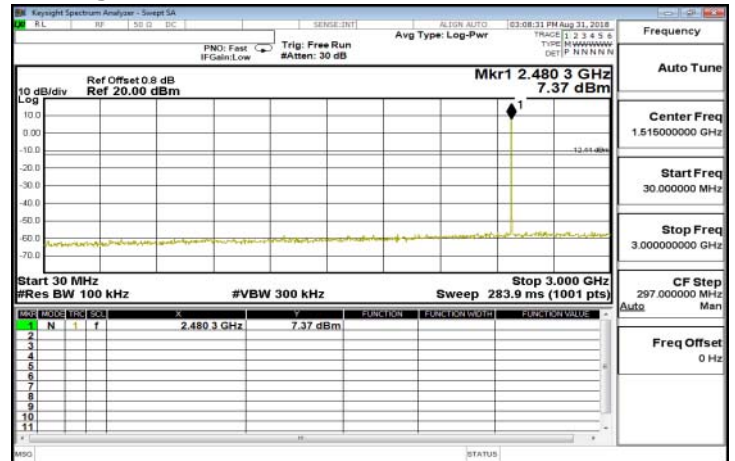
CH-Mid 3GHz – 26.5GHz



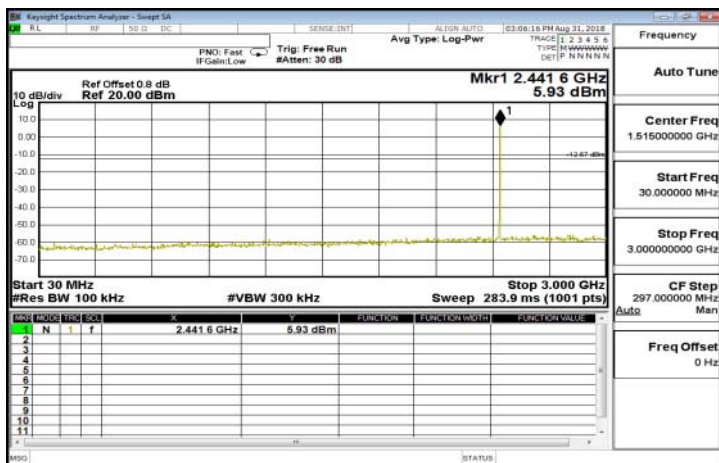
CH-Low 3GHz – 26.5GHz



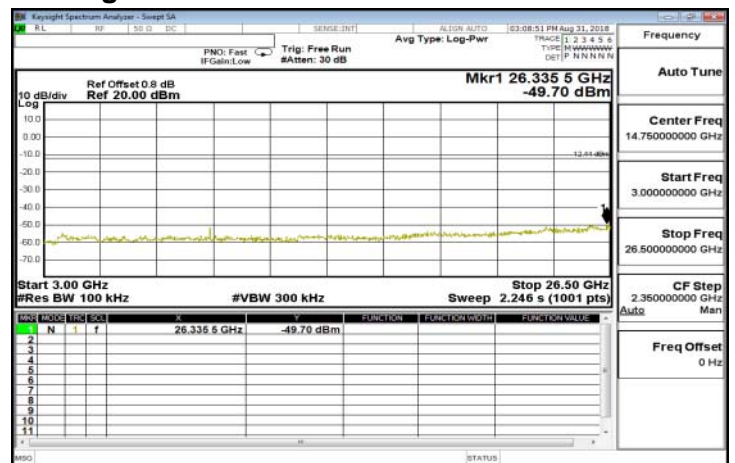
CH-High 30MHz – 3GHz



CH-Mid 30MHz – 3GHz



CH-High 3GHz – 26.5GHz

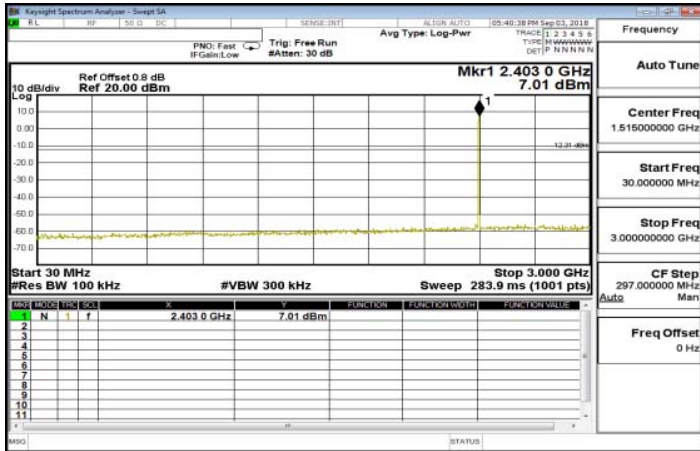


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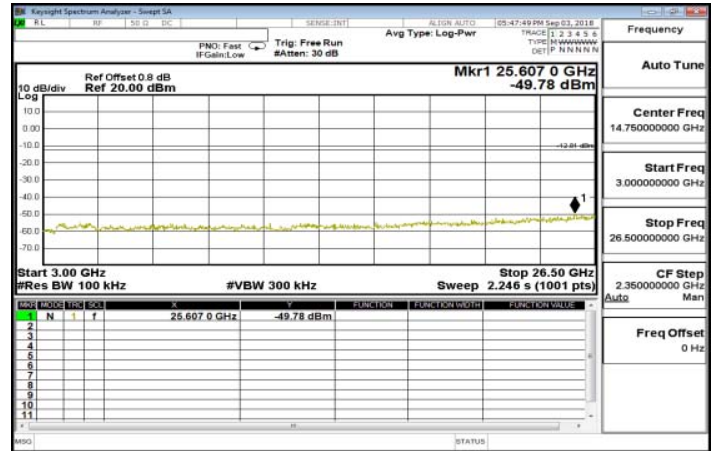
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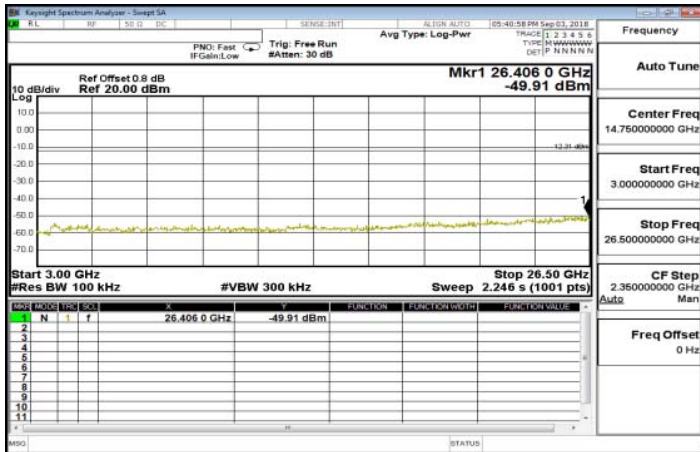
**BT 5.0 MODE:
CH-Low 30MHz – 3GHz**



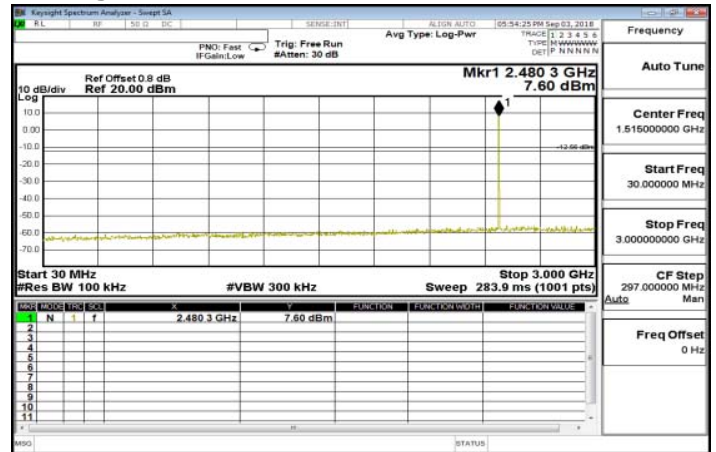
CH-Mid 3GHz – 26.5GHz



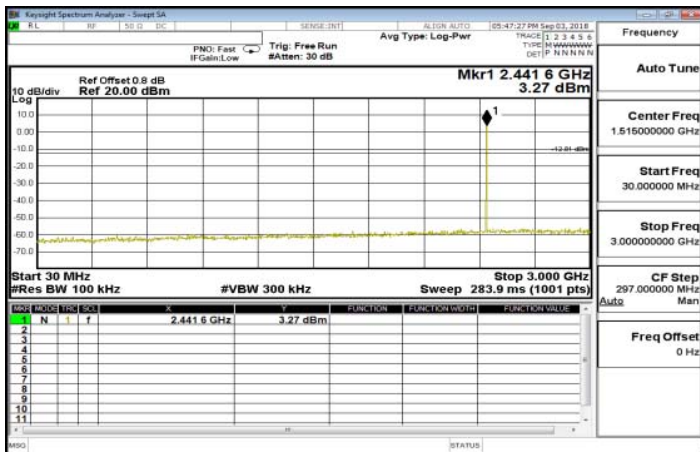
CH-Low 3GHz – 26.5GHz



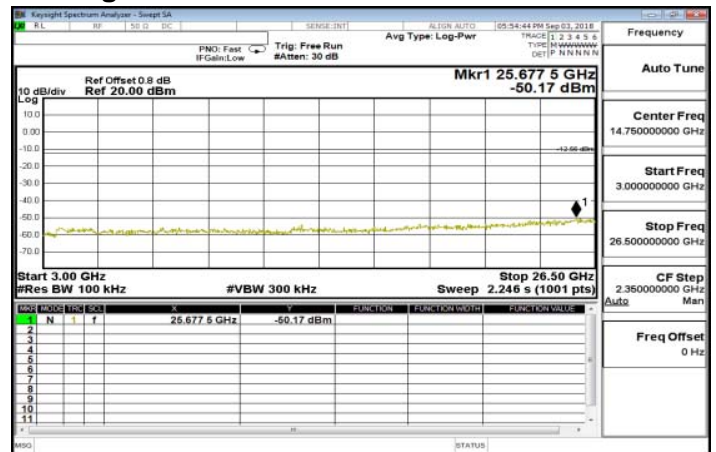
CH-High 30MHz – 3GHz



CH-Mid 30MHz – 3GHz



CH- High 3GHz – 26.5GHz



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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 & RSS-Gen §8.8, 8.9 limit as below.

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

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

Note:

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

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10.2 Measurement Equipment Used

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35243	2017/11/10	2018/11/09
Horn Antenna	Schwarzbeck	BBHA9120D	1187	2018/01/04	2019/01/03
Horn Antenna	SCHWAZBECK	BBHA9170	184	2017/12/12	2018/12/11
Loop Antenna	ETS.LINDGREN	6502	148045	2017/09/26	2018/09/25
EMI Test Receiver	R&S	ESU 40	100363	2018/04/11	2019/04/10
Pre-Amplifier	EMC Instruments	EMC330	980096	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC0011830	980199	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2017/10/27	2018/10/26
Attenuator	Marvelous	WATT-218FS-10	RF246	2017/12/26	2018/12/25
Highpass Filter	Micro Tronics	BRM50701-01	G008	2017/12/26	2018/12/25
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	2017/12/26	2018/12/25

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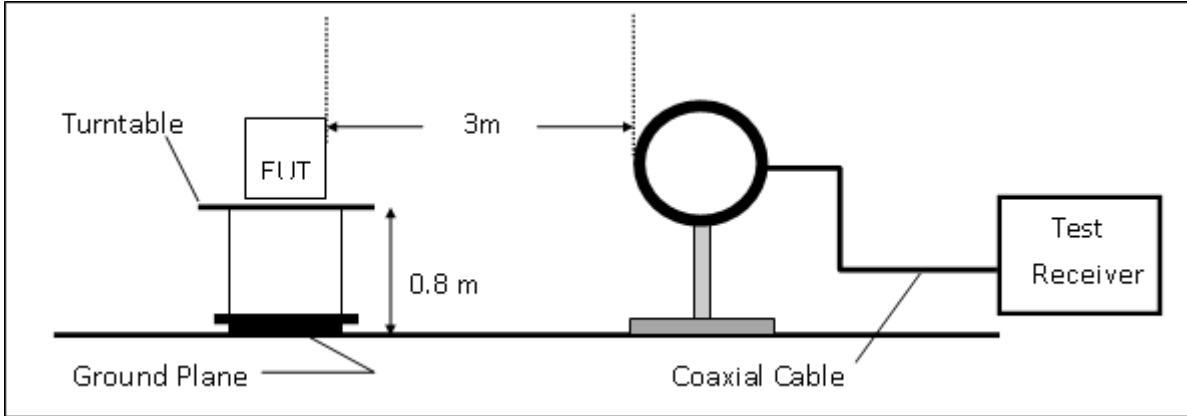
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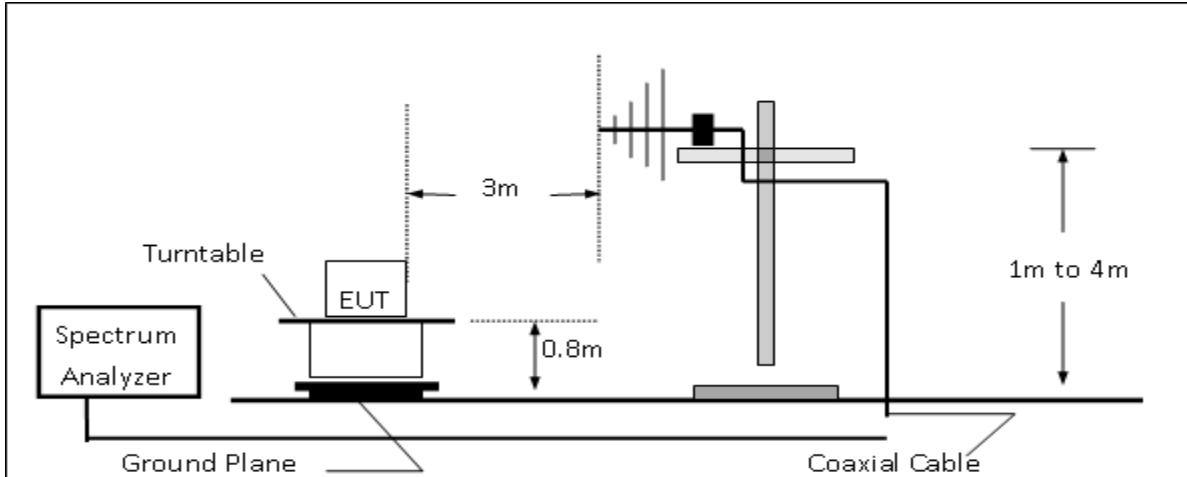
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10.3 Test SET-UP

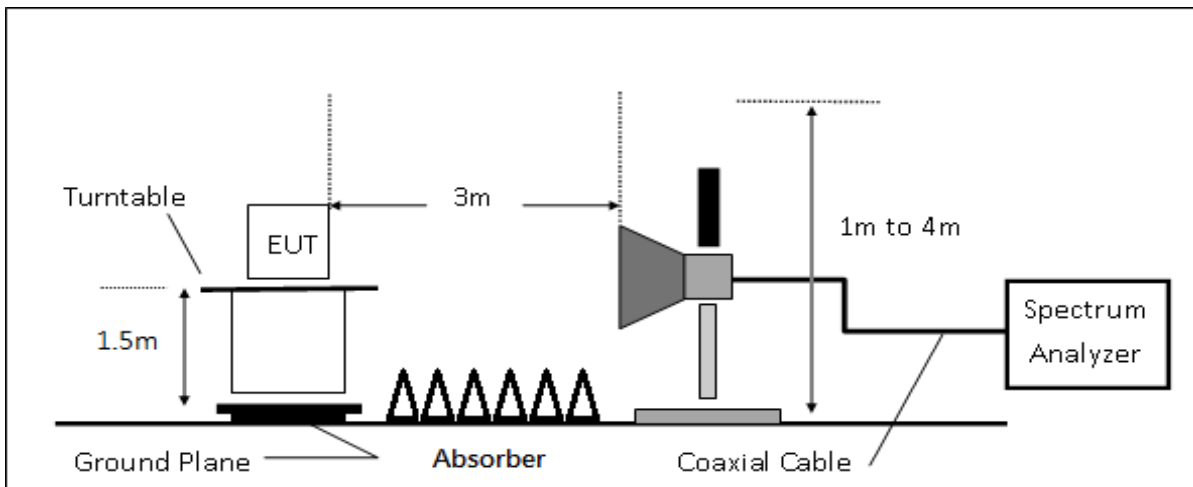
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 & ANSI C63.10.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground 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	

$$\text{Actual FS(dB}\mu\text{V/m)} = \text{SPA. Reading level(dB}\mu\text{V)} + \text{Factor(dB)}$$

$$\text{Factor(dB)} = \text{Antenna Factor(dB}\mu\text{V/m)} + \text{Cable Loss(dB)} - \text{Pre_Amplifier Gain(dB)}$$

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) was not reported.

10.7 Measurement Result:

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

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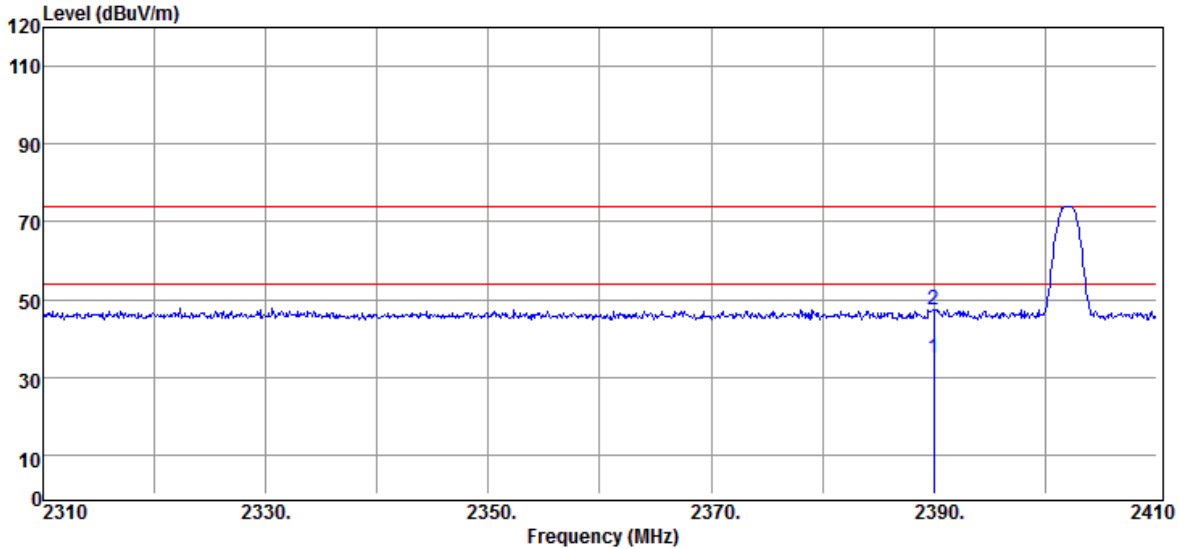
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Radiated Band Edge Measurement Result

BLE MODE:

Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2402 MHz	Engineer	:Jerry



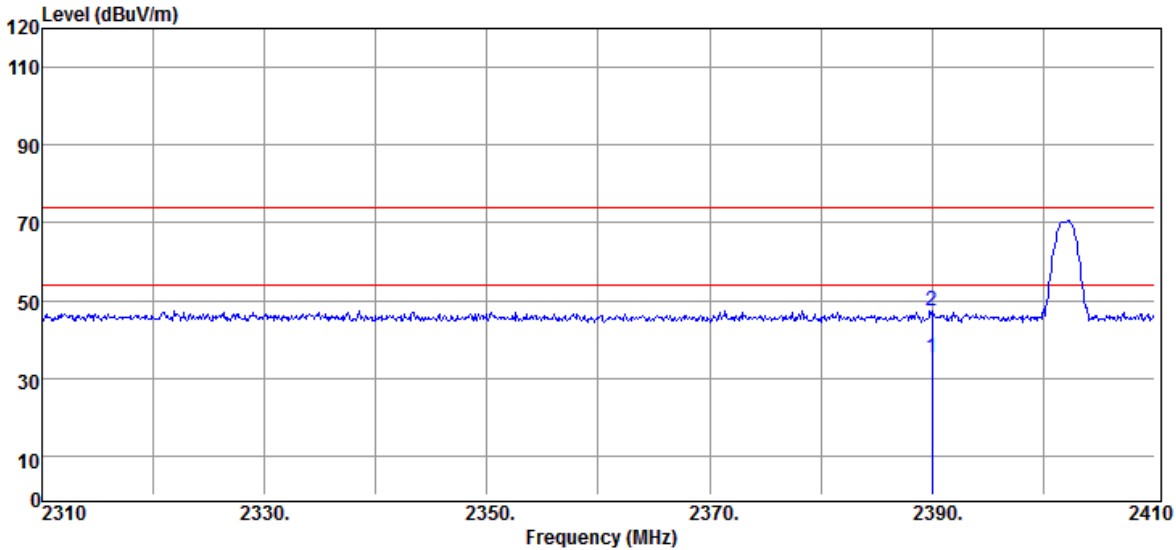
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2390.00	Average	40.53	-5.57	34.96	54.00	-19.04
2390.00	Peak	53.09	-5.57	47.52	74.00	-26.48

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Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2402 MHz	Engineer	:Jerry



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	40.68	-5.57	35.11	54.00	-18.89
2390.00	Peak	52.72	-5.57	47.15	74.00	-26.85

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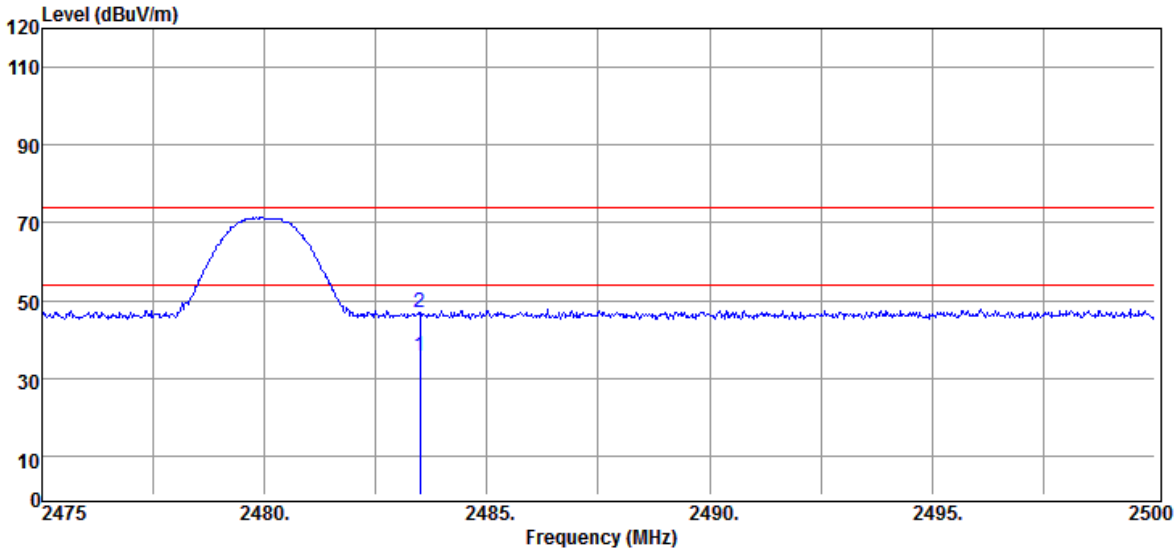
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Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2480 MHz	Engineer	:Jerry



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	40.54	-4.90	35.64	54.00	-18.36
2483.50	Peak	51.71	-4.90	46.81	74.00	-27.19

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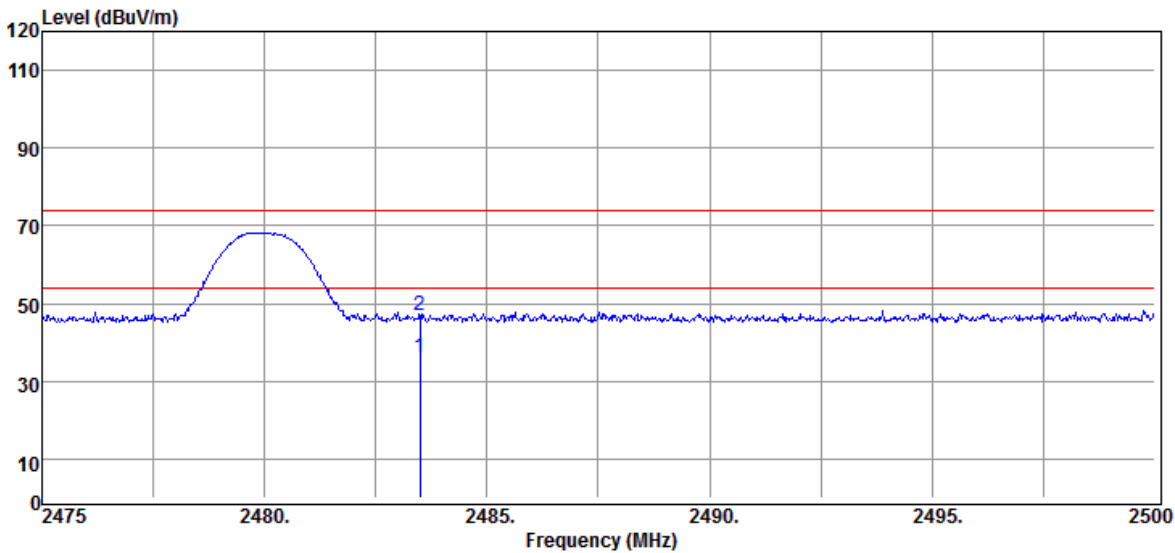
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Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2480 MHz	Engineer	:Jerry



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	40.83	-4.90	35.93	54.00	-18.07
2483.50	Peak	51.80	-4.90	46.90	74.00	-27.10

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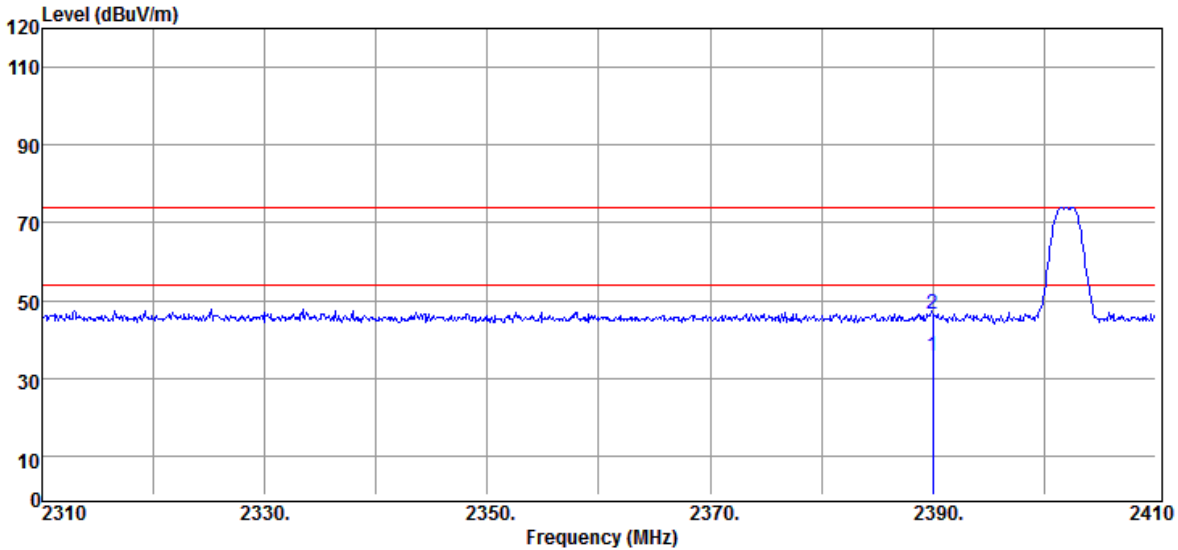
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BT 5.0 MODE:

Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2402 MHz	Engineer	:Jerry



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	41.33	-5.57	35.76	54.00	-18.24
2390.00	Peak	52.01	-5.57	46.44	74.00	-27.56

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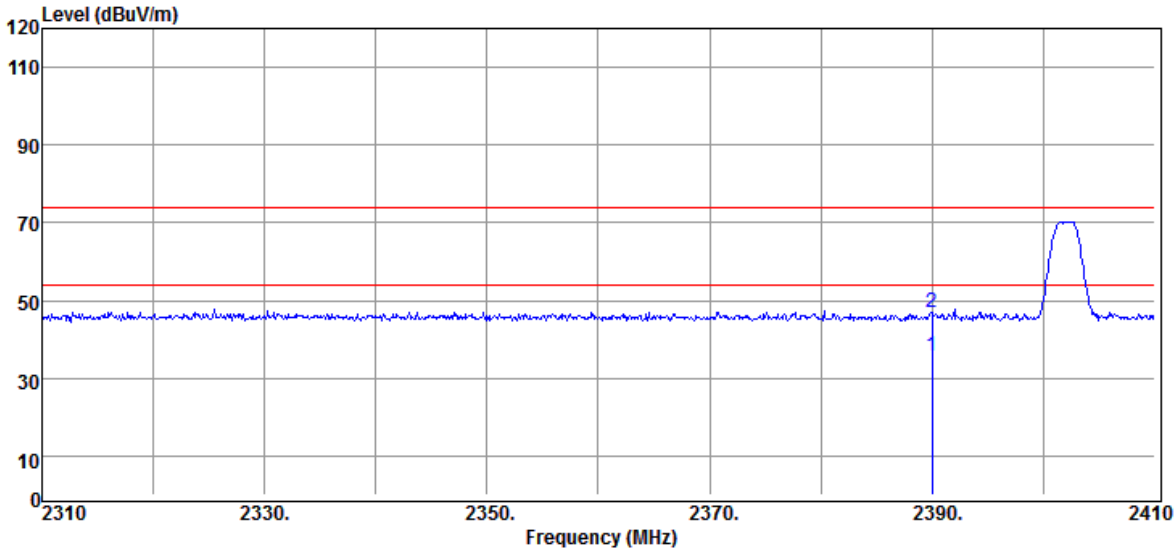
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Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2402 MHz	Engineer	:Jerry



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	41.23	-5.57	35.66	54.00	-18.34
2390.00	Peak	52.35	-5.57	46.78	74.00	-27.22

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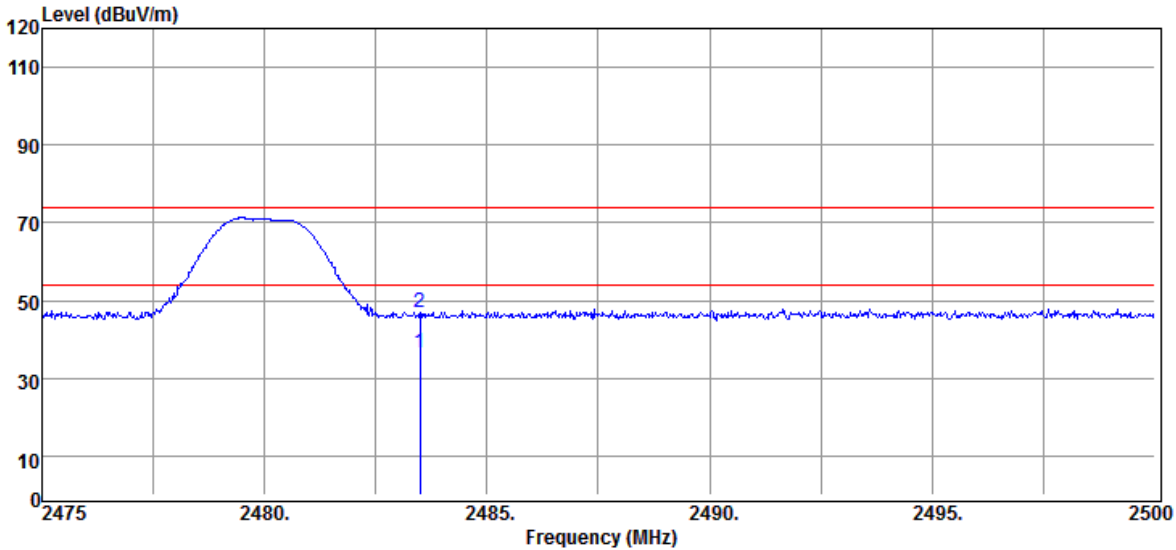
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Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2480 MHz	Engineer	:Jerry



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	41.38	-4.90	36.48	54.00	-17.52
2483.50	Peak	52.01	-4.90	47.11	74.00	-26.89

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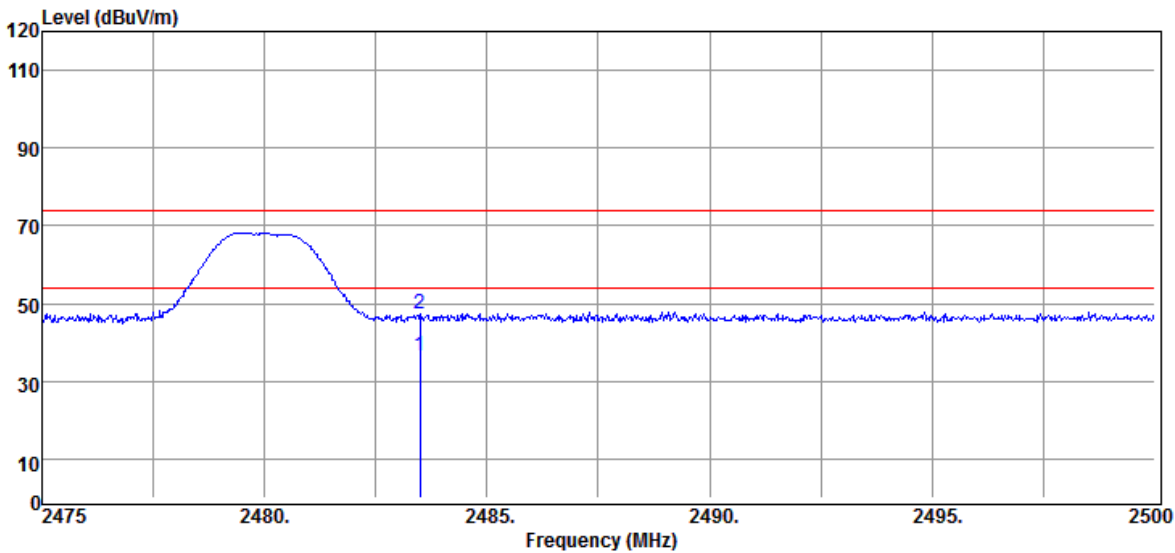
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Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2480 MHz	Engineer	:Jerry



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	41.37	-4.90	36.47	54.00	-17.53
2483.50	Peak	52.29	-4.90	47.39	74.00	-26.61

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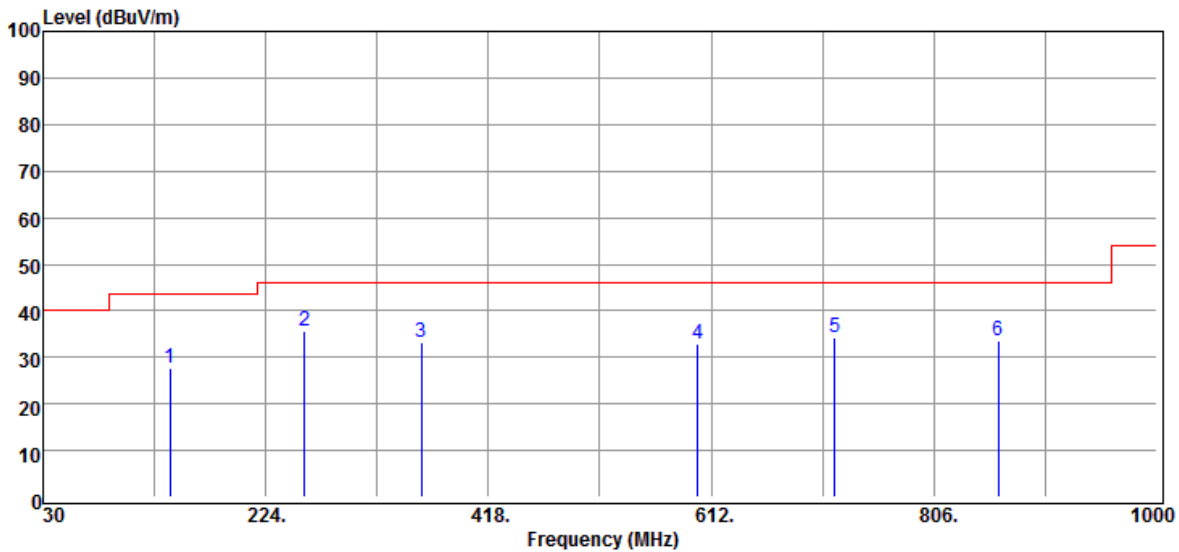
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Radiated Spurious Emission Measurement Result For Frequency form 30MHz to 1000MHz

BLE MODE :

Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2402 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
140.58	Peak	44.08	-16.48	27.60	43.50	-15.90
257.95	Peak	52.47	-16.70	35.77	46.00	-10.23
359.80	Peak	46.89	-13.76	33.13	46.00	-12.87
600.36	Peak	41.95	-9.14	32.81	46.00	-13.19
719.67	Peak	42.12	-7.81	34.31	46.00	-11.69
862.26	Peak	38.70	-5.29	33.41	46.00	-12.59

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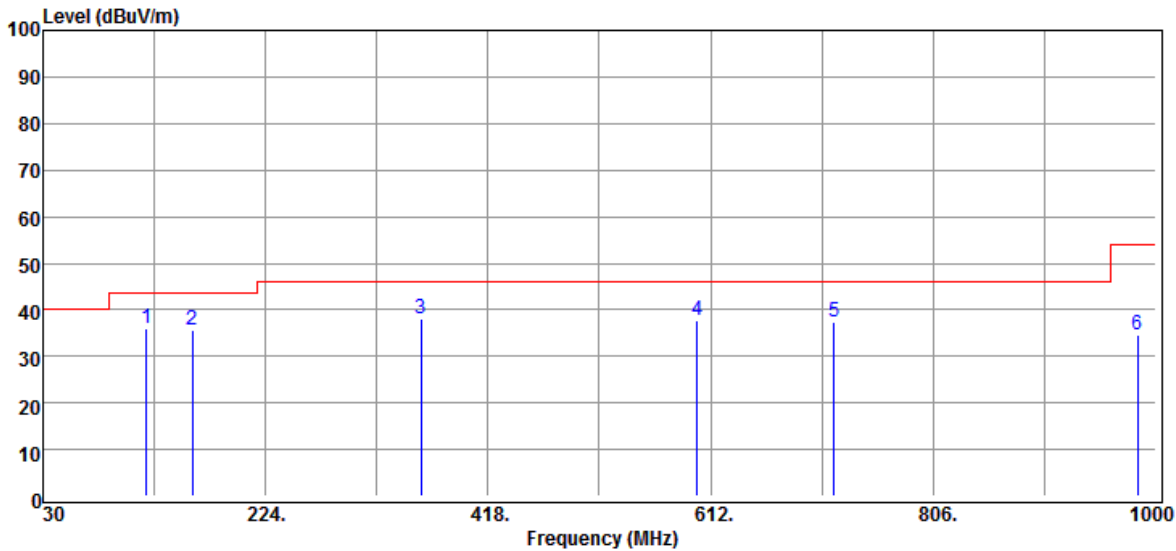
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Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2402 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
120.21	Peak	55.21	-19.05	36.16	43.50	-7.34
159.98	Peak	51.99	-16.19	35.80	43.50	-7.70
359.80	Peak	51.83	-13.76	38.07	46.00	-7.93
600.36	Peak	46.94	-9.14	37.80	46.00	-8.20
719.67	Peak	45.02	-7.81	37.21	46.00	-8.79
984.48	Peak	38.08	-3.65	34.43	54.00	-19.57

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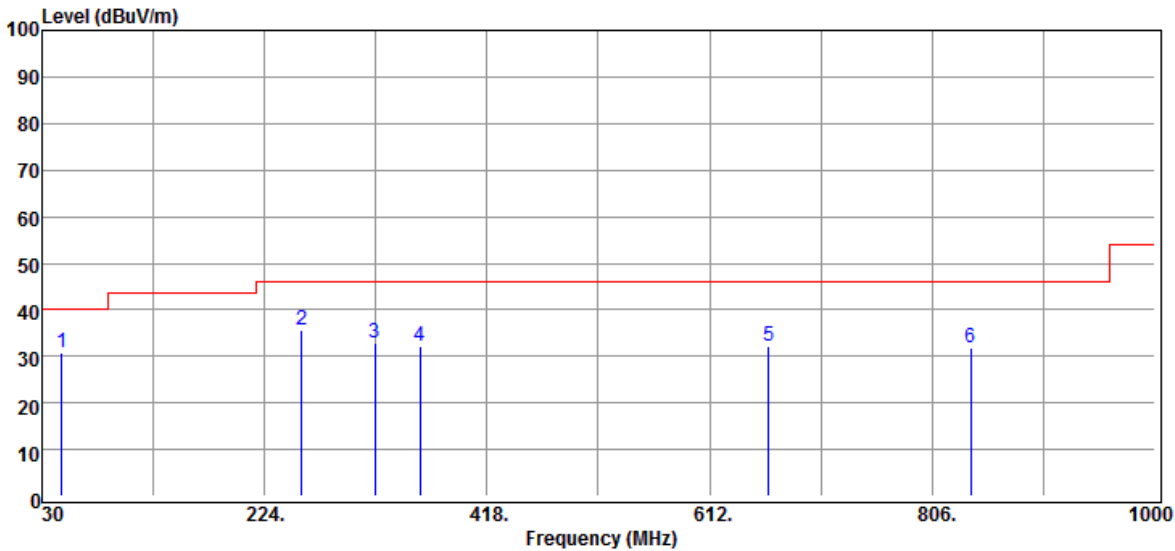
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Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Jerry



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
47.46	Peak	47.77	-16.96	30.81	40.00	-9.19
256.01	Peak	52.38	-16.74	35.64	46.00	-10.36
320.03	Peak	47.66	-14.79	32.87	46.00	-13.13
359.80	Peak	45.93	-13.76	32.17	46.00	-13.83
663.41	Peak	40.88	-8.80	32.08	46.00	-13.92
839.95	Peak	38.07	-6.27	31.80	46.00	-14.20

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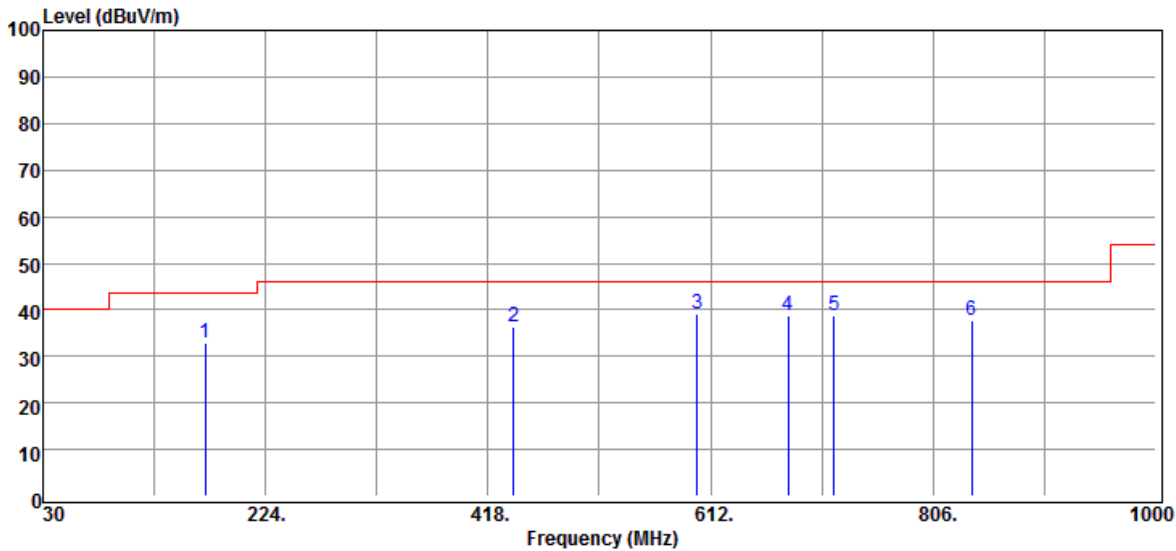
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Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2442 MHz	Engineer	:Jerry



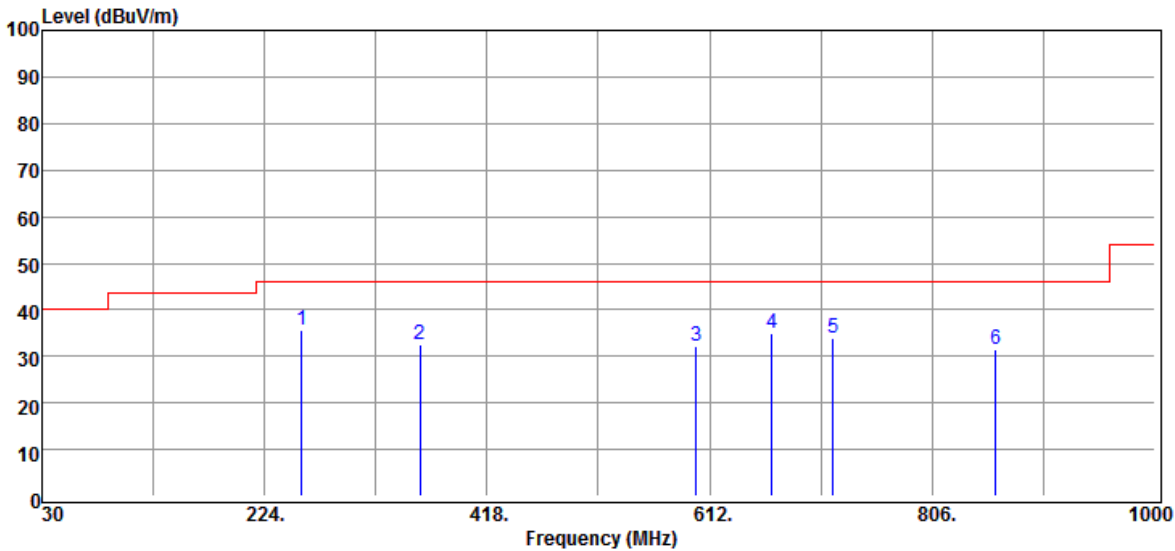
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
171.62	Peak	50.79	-17.86	32.93	43.50	-10.57
440.31	Peak	48.22	-11.73	36.49	46.00	-9.51
600.36	Peak	48.20	-9.14	39.06	46.00	-6.94
679.90	Peak	46.74	-7.88	38.86	46.00	-7.14
719.67	Peak	46.74	-7.81	38.93	46.00	-7.07
839.95	Peak	44.00	-6.27	37.73	46.00	-8.27

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Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2480 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
256.01	Peak	52.26	-16.74	35.52	46.00	-10.48
359.80	Peak	46.31	-13.76	32.55	46.00	-13.45
600.36	Peak	41.23	-9.14	32.09	46.00	-13.91
666.32	Peak	43.79	-8.72	35.07	46.00	-10.93
719.67	Peak	41.79	-7.81	33.98	46.00	-12.02
861.29	Peak	36.73	-5.35	31.38	46.00	-14.62

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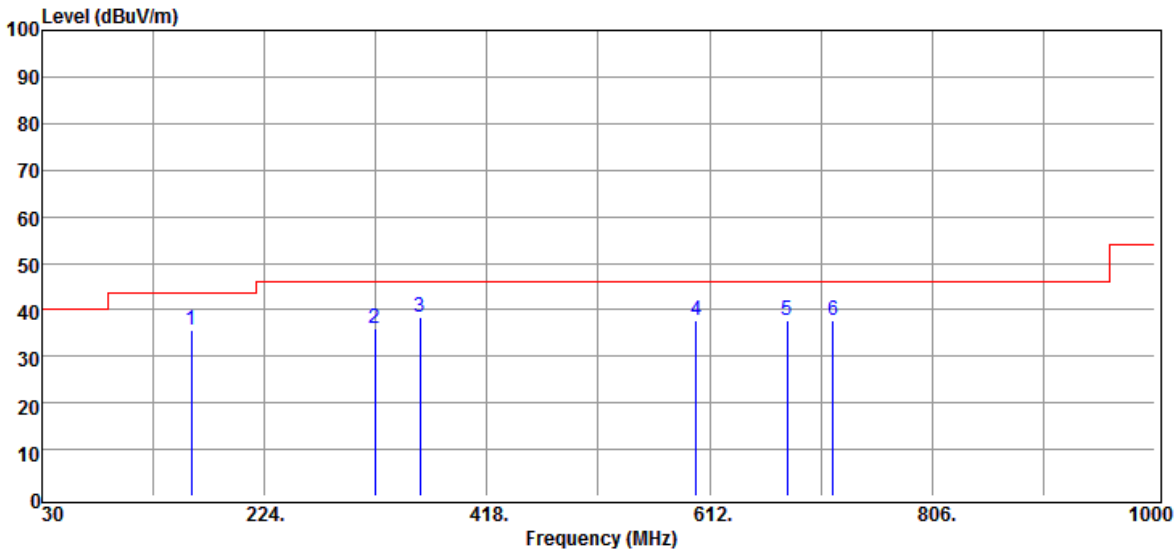
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Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2480 MHz	Engineer	:Jerry



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
159.98	Peak	51.84	-16.19	35.65	43.50	-7.85
320.03	Peak	53.01	-16.87	36.14	46.00	-9.86
359.80	Peak	52.15	-13.76	38.39	46.00	-7.61
600.36	Peak	46.92	-9.14	37.78	46.00	-8.22
679.90	Peak	45.72	-7.88	37.84	46.00	-8.16
719.67	Peak	45.61	-7.81	37.80	46.00	-8.20

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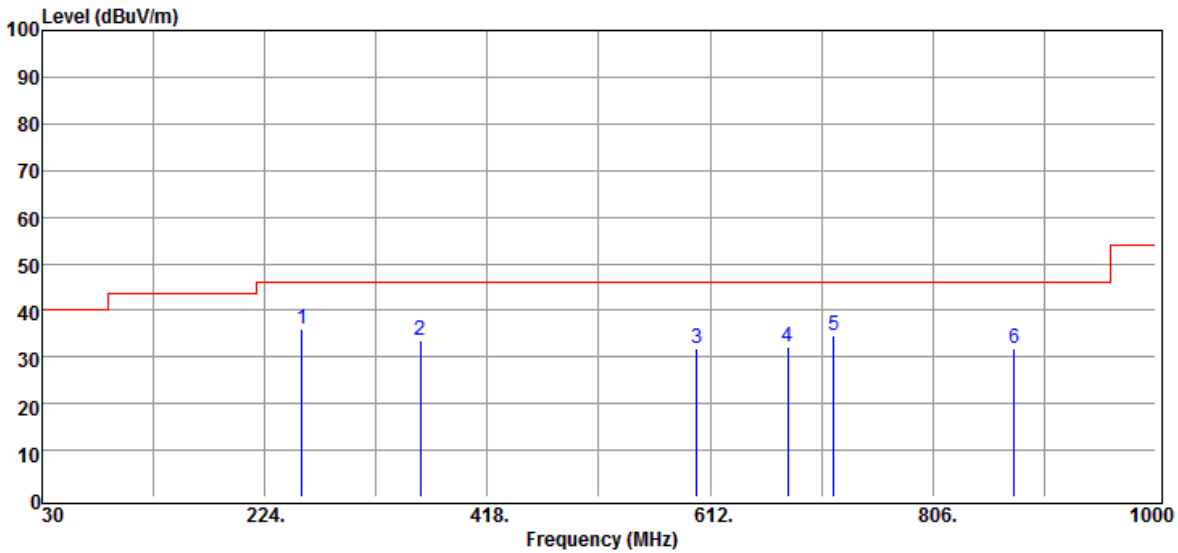
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BT 5.0 MODE :

Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2402 MHz	Engineer	:Jerry



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
256.01	Peak	52.75	-16.74	36.01	46.00	-9.99
359.80	Peak	47.31	-13.76	33.55	46.00	-12.45
600.36	Peak	40.88	-9.14	31.74	46.00	-14.26
679.90	Peak	40.17	-7.88	32.29	46.00	-13.71
719.67	Peak	42.52	-7.81	34.71	46.00	-11.29
876.81	Peak	37.05	-5.27	31.78	46.00	-14.22

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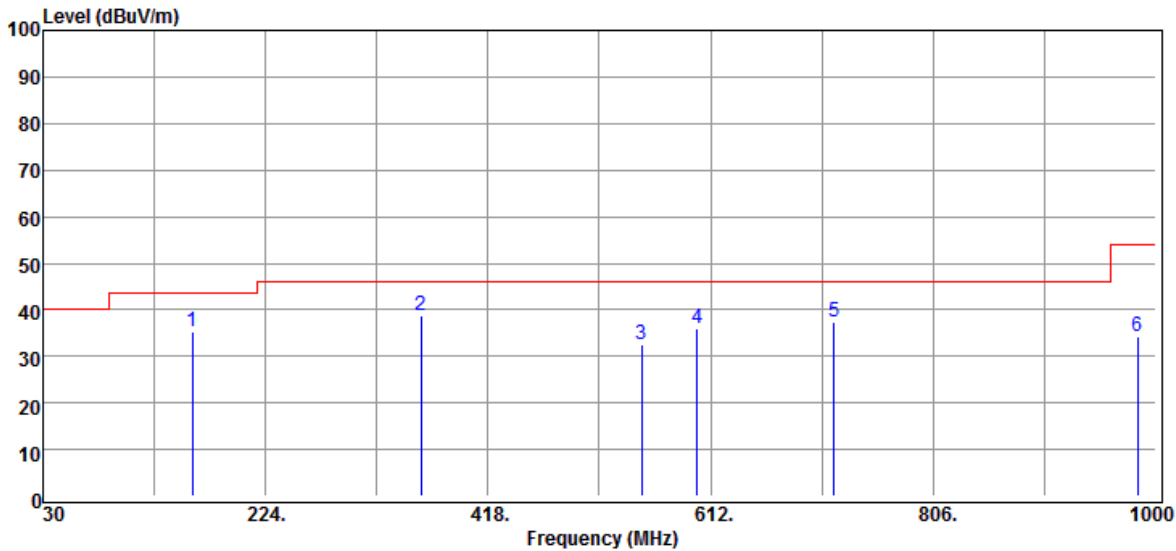
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Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2402 MHz	Engineer	:Jerry



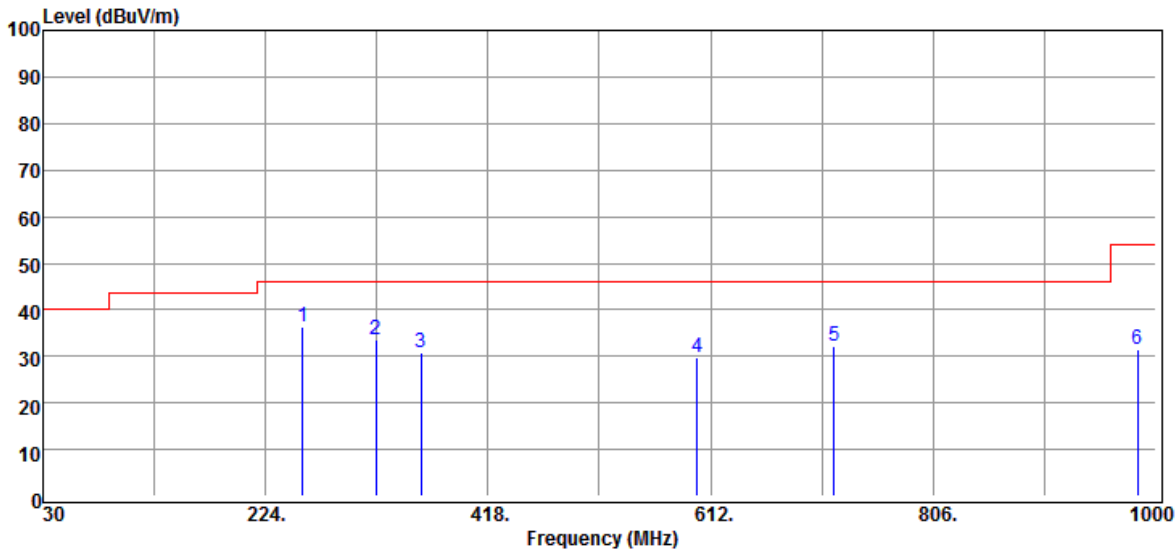
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
159.98	Peak	51.35	-16.19	35.16	43.50	-8.34
359.80	Peak	52.42	-13.76	38.66	46.00	-7.34
551.86	Peak	43.02	-10.35	32.67	46.00	-13.33
600.36	Peak	44.99	-9.14	35.85	46.00	-10.15
719.67	Peak	45.10	-7.81	37.29	46.00	-8.71
984.48	Peak	37.94	-3.65	34.29	54.00	-19.71

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Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
256.01	Peak	52.91	-16.74	36.17	46.00	-9.83
320.03	Peak	48.31	-14.79	33.52	46.00	-12.48
359.80	Peak	44.41	-13.76	30.65	46.00	-15.35
600.36	Peak	38.93	-9.14	29.79	46.00	-16.21
719.67	Peak	39.95	-7.81	32.14	46.00	-13.86
984.48	Peak	35.18	-3.65	31.53	54.00	-22.47

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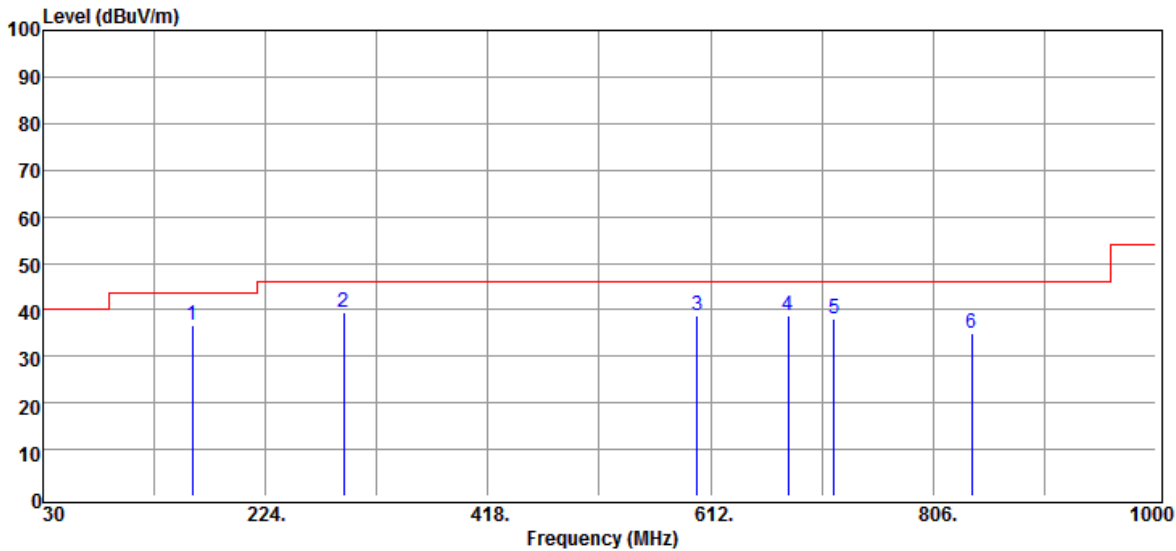
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Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2442 MHz	Engineer	:Jerry



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
159.98	Peak	52.96	-16.19	36.77	43.50	-6.73
291.90	Peak	55.81	-16.49	39.32	46.00	-6.68
600.36	Peak	47.90	-9.14	38.76	46.00	-7.24
679.90	Peak	46.79	-7.88	38.91	46.00	-7.09
719.67	Peak	45.80	-7.81	37.99	46.00	-8.01
839.95	Peak	41.13	-6.27	34.86	46.00	-11.14

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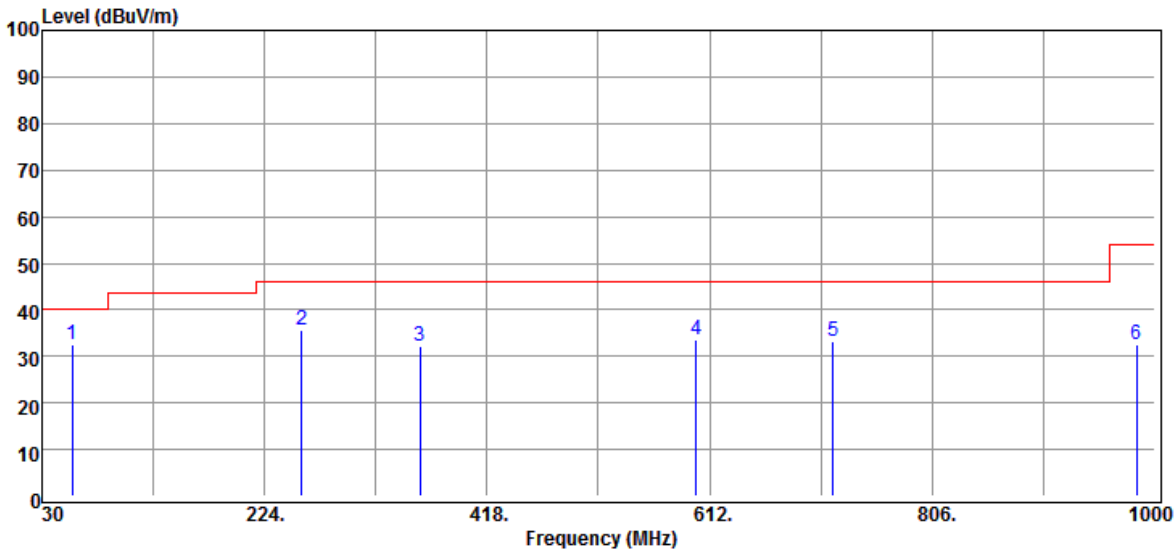
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Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2480 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
56.19	Peak	49.77	-17.33	32.44	40.00	-7.56
256.01	Peak	52.47	-16.74	35.73	46.00	-10.27
359.80	Peak	46.05	-13.76	32.29	46.00	-13.71
600.36	Peak	42.78	-9.14	33.64	46.00	-12.36
719.67	Peak	41.16	-7.81	33.35	46.00	-12.65
984.48	Peak	36.23	-3.65	32.58	54.00	-21.42

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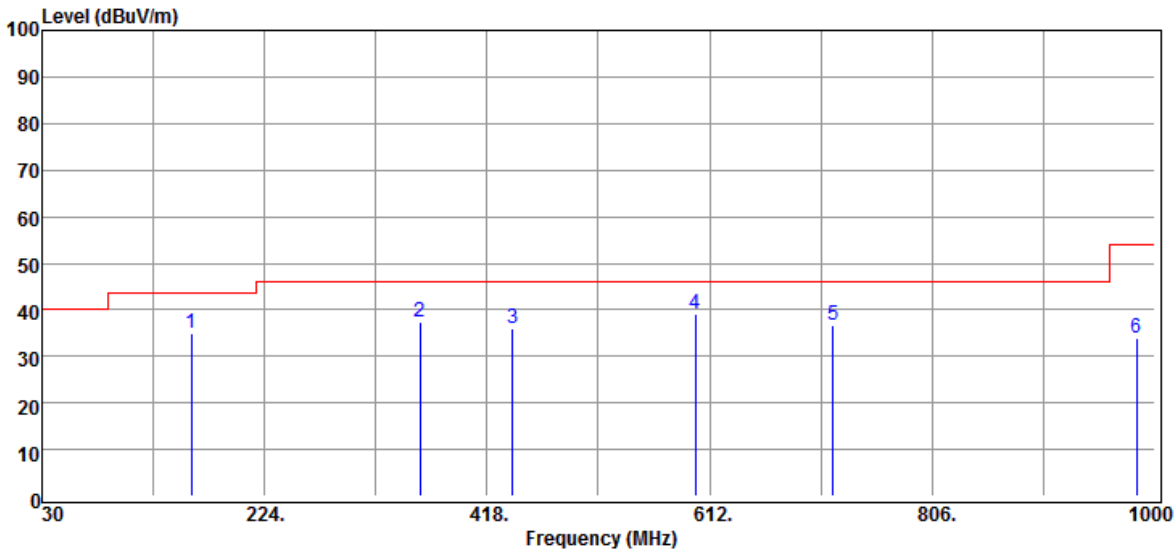
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Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2480 MHz	Engineer	:Jerry



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
159.98	Peak	50.98	-16.19	34.79	43.50	-8.71
359.80	Peak	51.12	-13.76	37.36	46.00	-8.64
440.31	Peak	47.84	-11.73	36.11	46.00	-9.89
599.39	Peak	48.36	-9.09	39.27	46.00	-6.73
719.67	Peak	44.49	-7.81	36.68	46.00	-9.32
984.48	Peak	37.55	-3.65	33.90	54.00	-20.10

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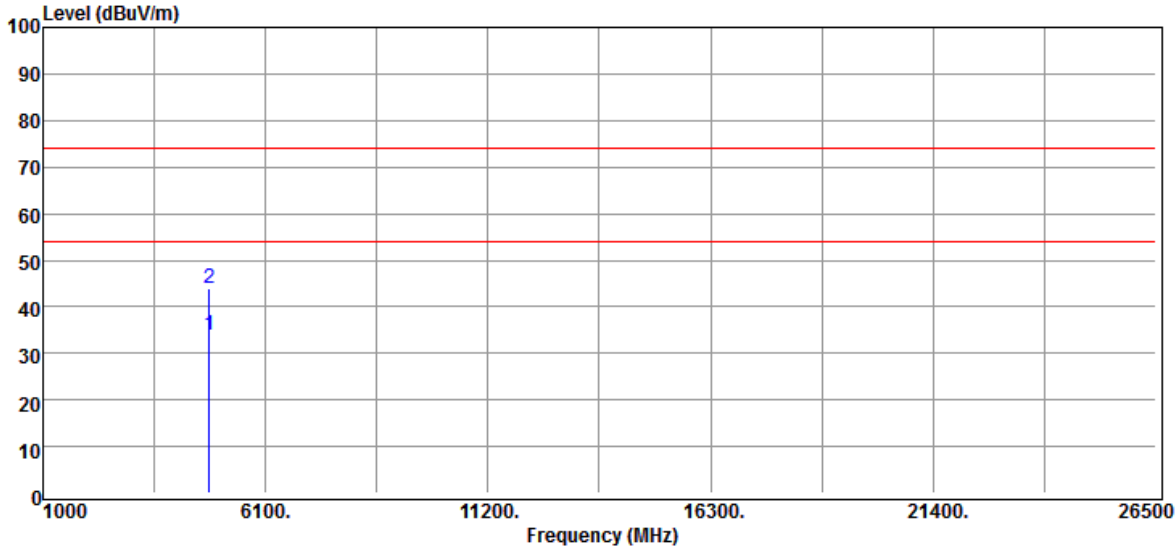
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Radiated Spurious Emission Measurement Result For Frequency above 1GHz

BLE MODE :

Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2402 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4804.00	Average	33.58	0.27	33.85	54.00	-20.15
4804.00	Peak	43.76	0.27	44.03	74.00	-29.97

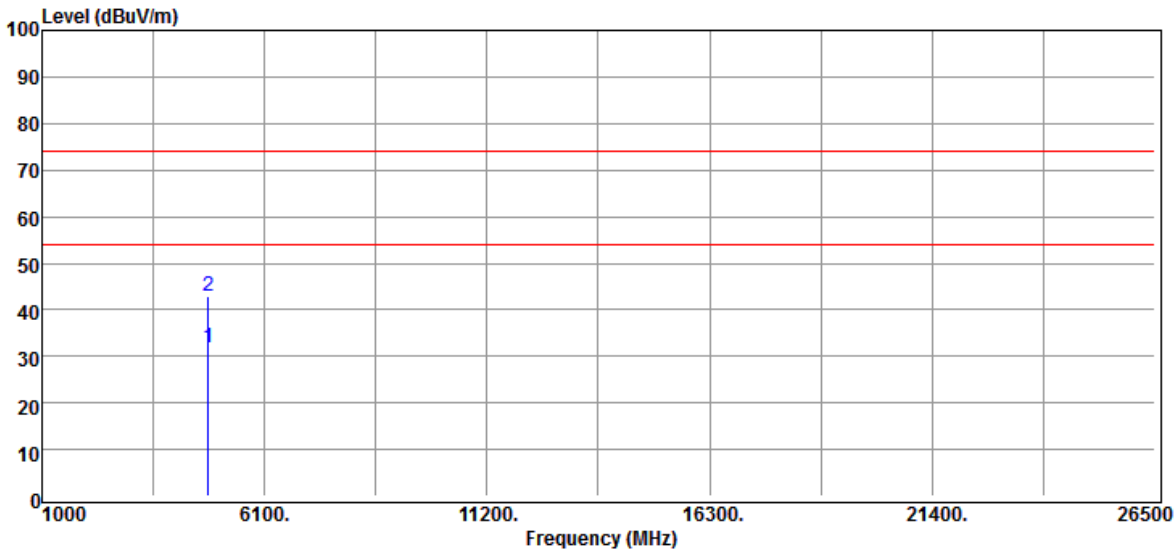
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Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2402 MHz	Engineer	:Jerry



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	31.39	0.27	31.66	54.00	-22.34
4804.00	Peak	42.57	0.27	42.84	74.00	-31.16

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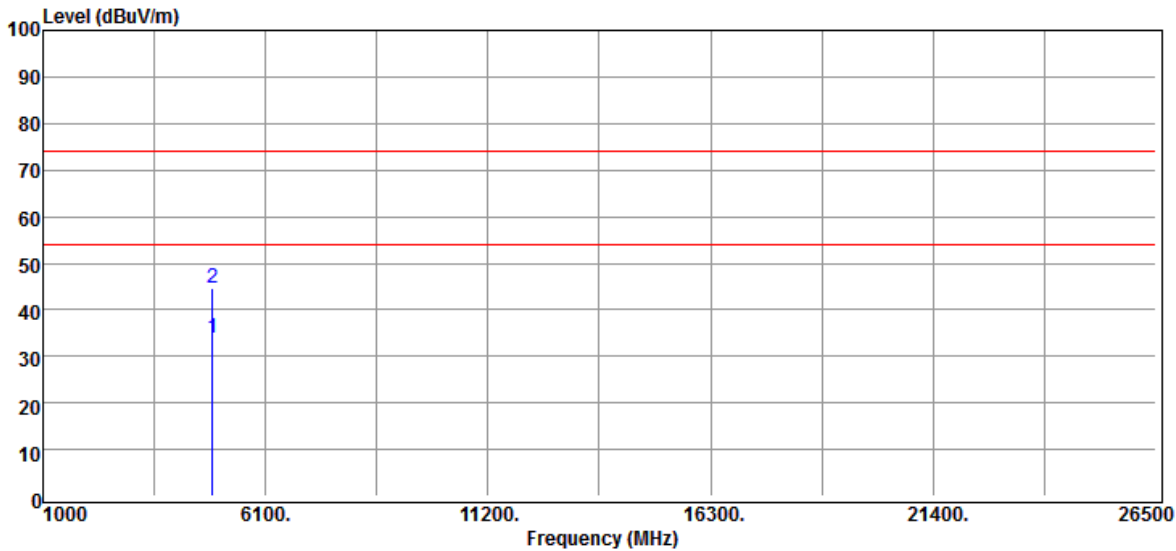
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Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Jerry



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	33.14	0.71	33.85	54.00	-20.15
4884.00	Peak	43.99	0.71	44.70	74.00	-29.30

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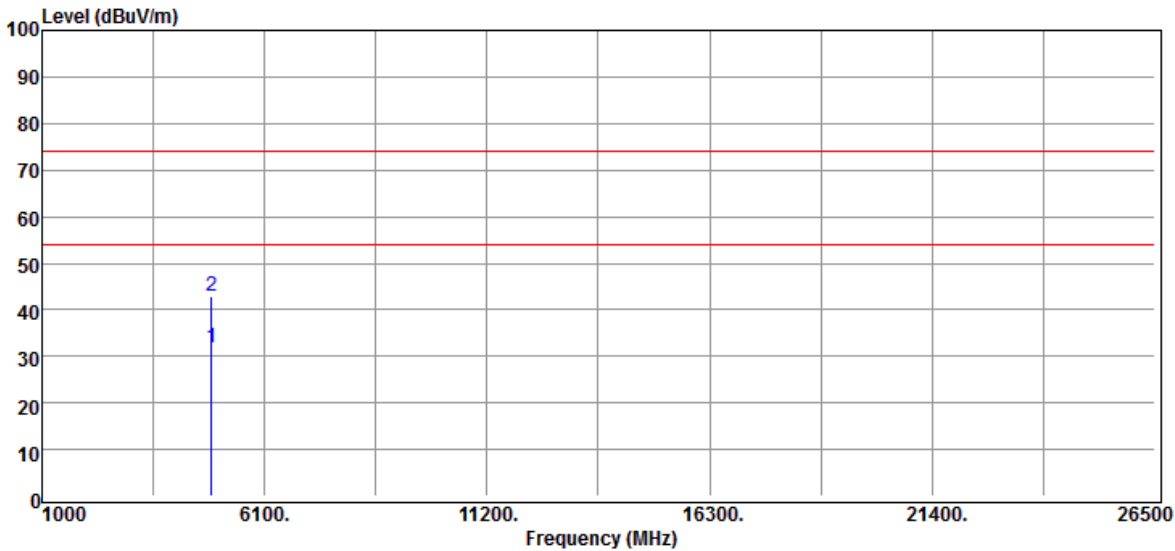
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Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2442 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.00	Average	31.11	0.71	31.82	54.00	-22.18
4884.00	Peak	42.11	0.71	42.82	74.00	-31.18

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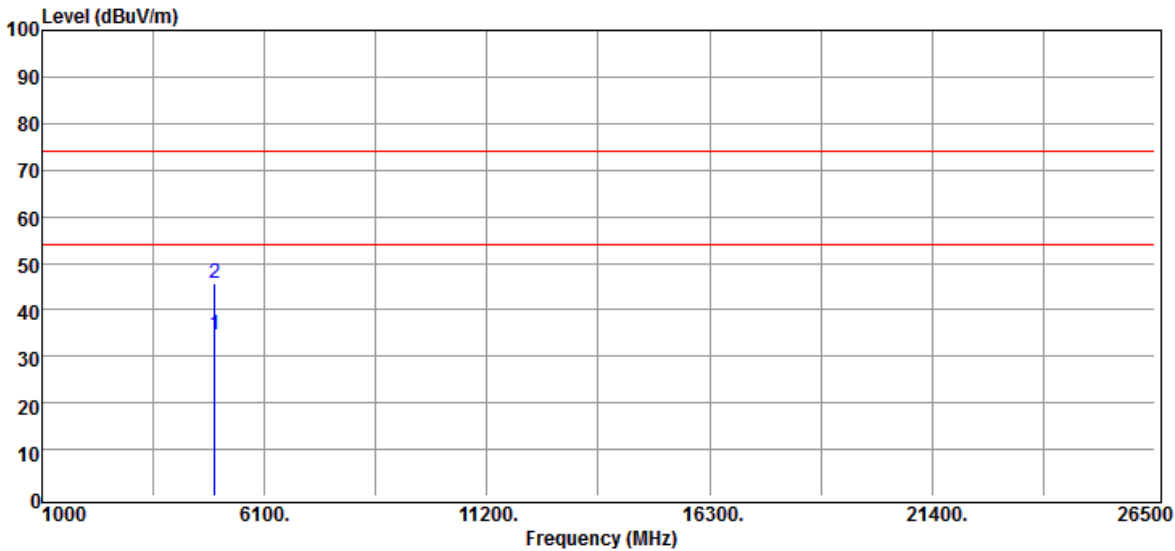
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Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2480 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.00	Average	33.36	1.24	34.60	54.00	-19.40
4960.00	Peak	44.29	1.24	45.53	74.00	-28.47

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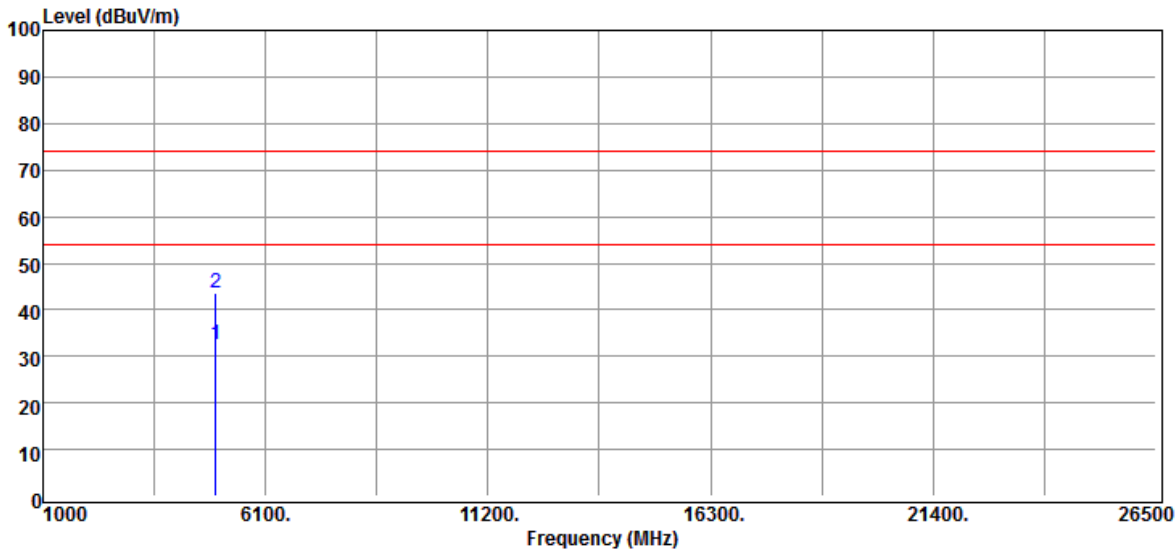
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Operation Mode	:BLE	Test Date	:2018-08-30
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2480 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.00	Average	31.35	1.24	32.59	54.00	-21.41
4960.00	Peak	42.34	1.24	43.58	74.00	-30.42

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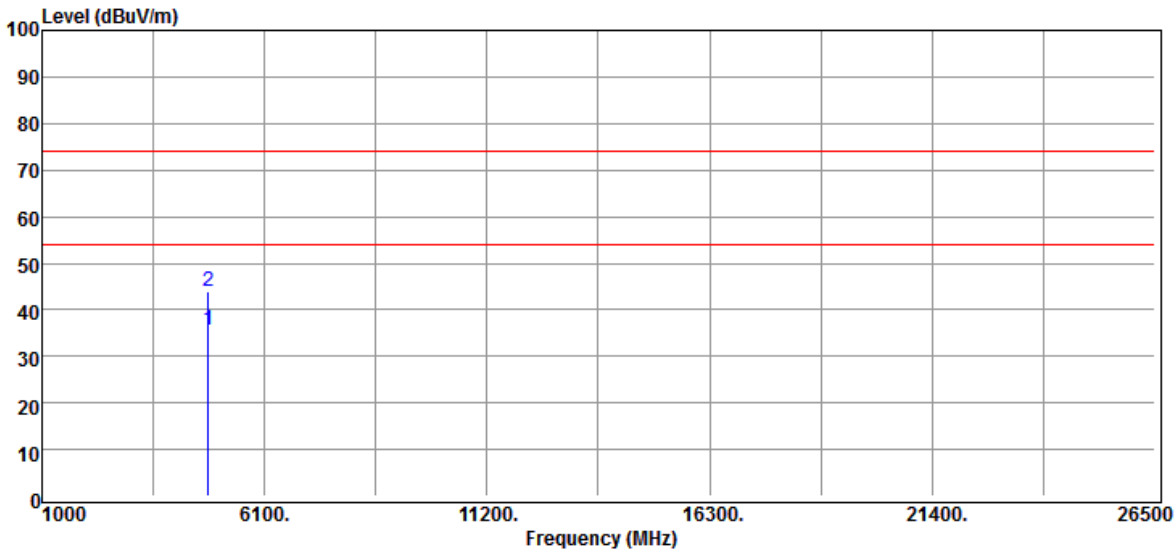
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BT 5.0 MODE:

Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2402 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Average	35.28	0.27	35.55	54.00	-18.45
4804.00	Peak	43.55	0.27	43.82	74.00	-30.18

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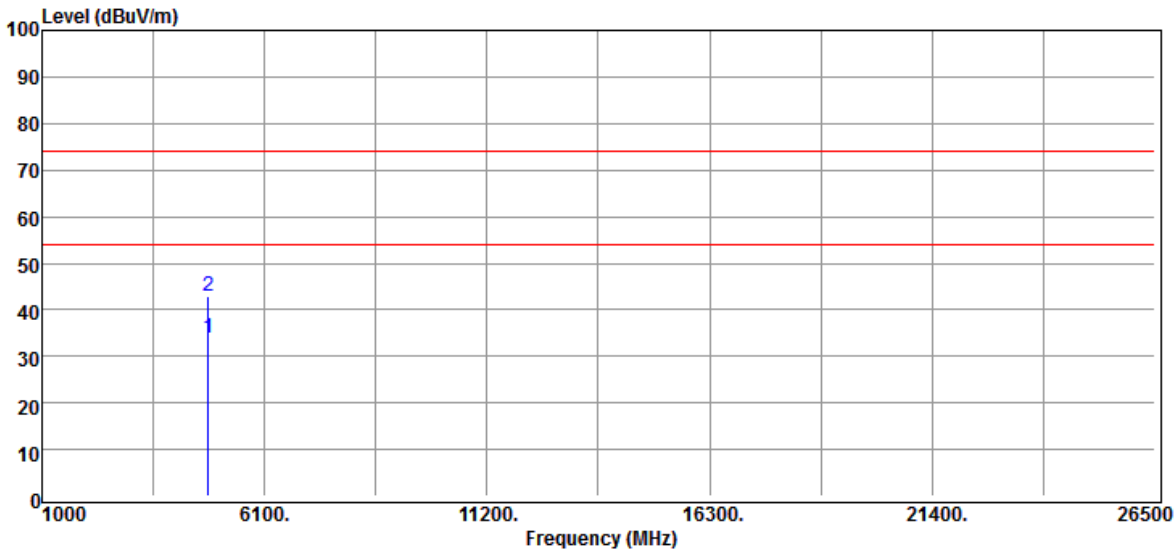
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Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2402 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Average	33.62	0.27	33.89	54.00	-20.11
4804.00	Peak	42.53	0.27	42.80	74.00	-31.20

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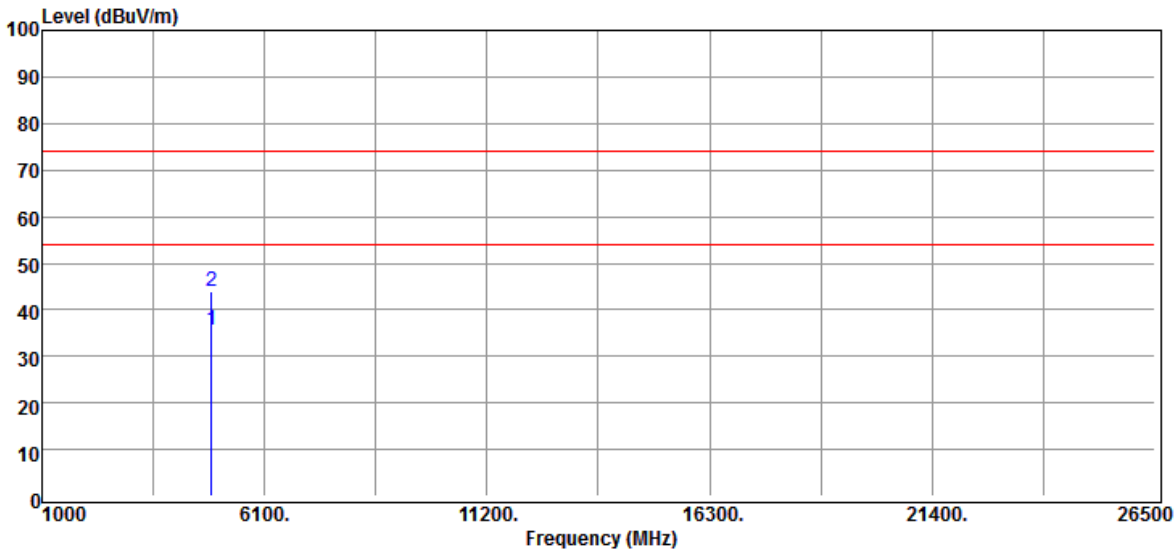
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Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2442 MHz	Engineer	:Jerry



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	35.02	0.71	35.73	54.00	-18.27
4884.00	Peak	43.26	0.71	43.97	74.00	-30.03

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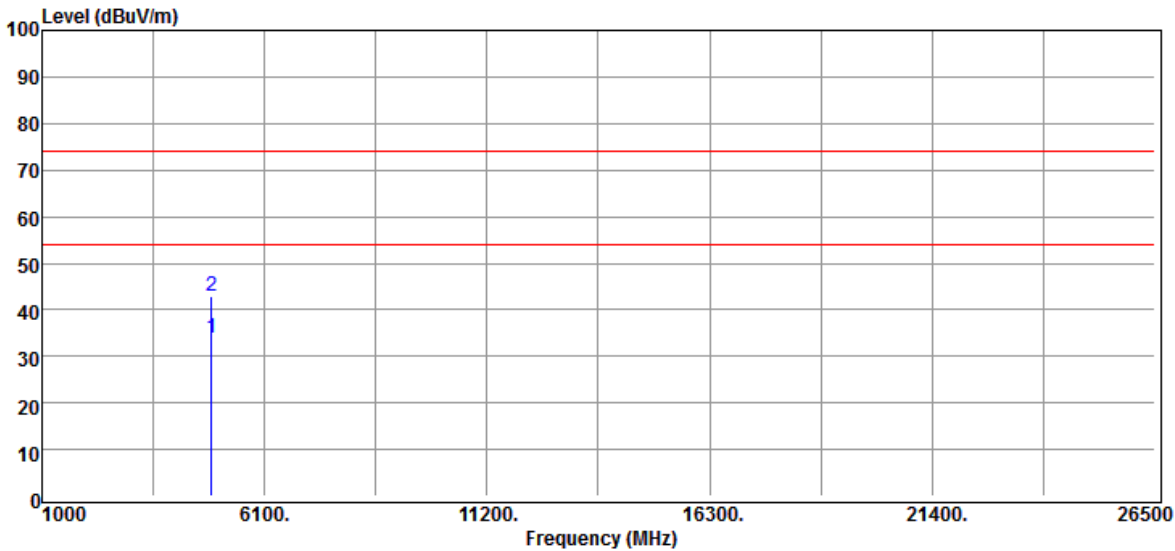
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Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2442 MHz	Engineer	:Jerry



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	33.08	0.71	33.79	54.00	-20.21
4884.00	Peak	42.17	0.71	42.88	74.00	-31.12

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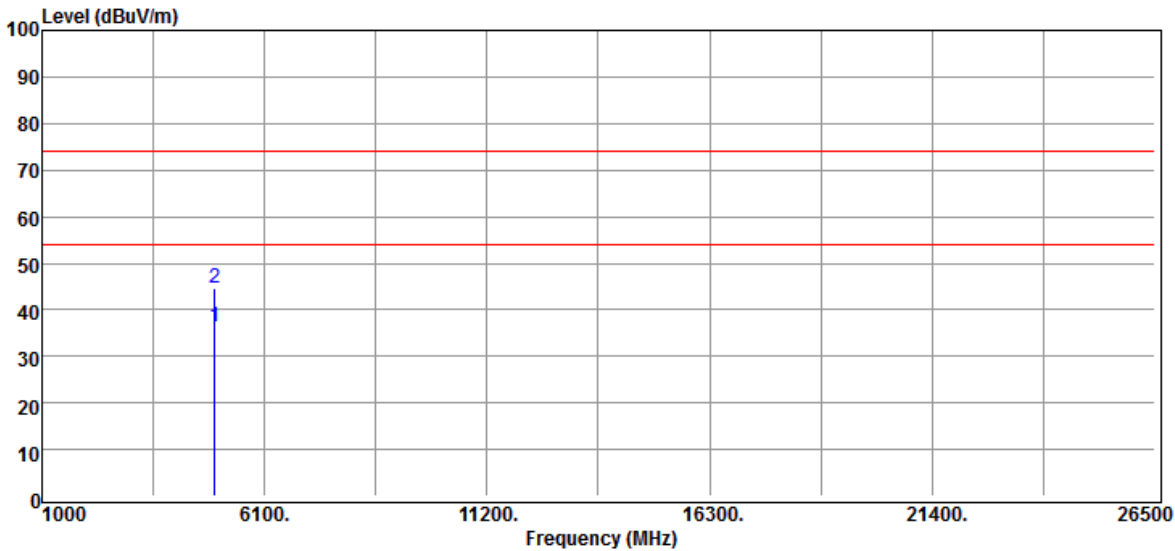
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Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2480 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.00	Average	35.13	1.24	36.37	54.00	-17.63
4960.00	Peak	43.22	1.24	44.46	74.00	-29.54

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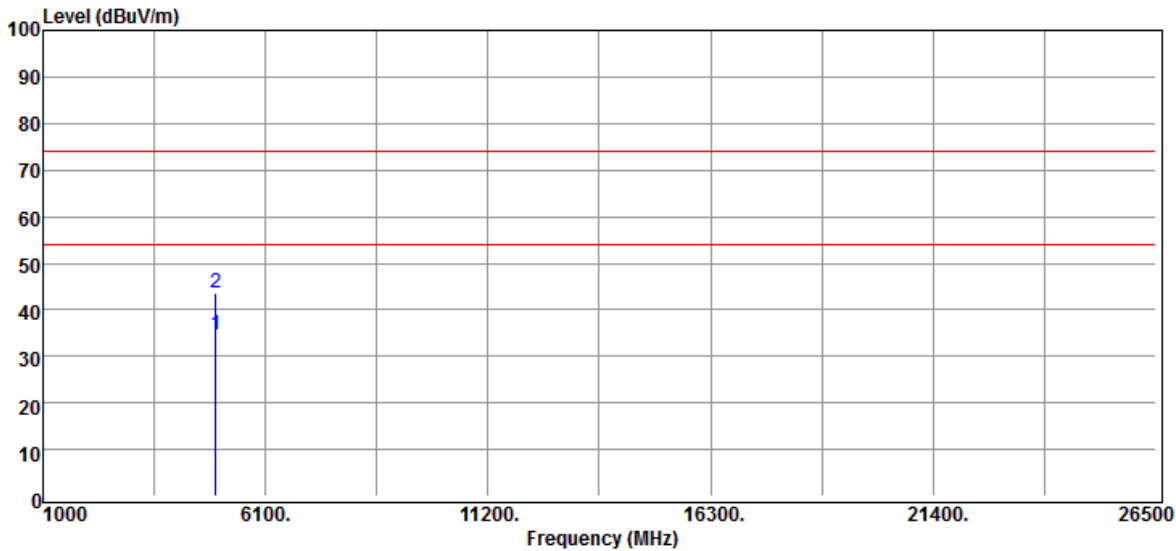
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Operation Mode	:BT5.0	Test Date	:2018-08-30
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2480 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.00	Average	33.21	1.24	34.45	54.00	-19.55
4960.00	Peak	42.35	1.24	43.59	74.00	-30.41

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11 PEAK POWER SPECTRAL DENSITY

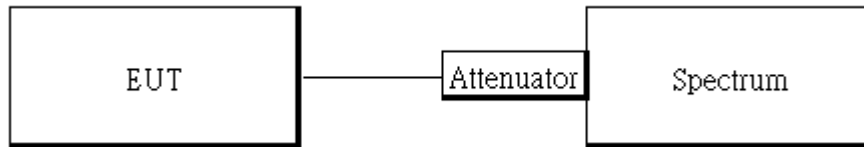
11.1 Standard Applicable:

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.
Spectrum Analyzer	Agilent	N9010A	MY5144011 3	2018/06/20	2019/06/19
DC Power Supply	Agilent	E3640A	MY5314000 6	2018/05/30	2019/05/29

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

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11.5 Measurement Result:

BLE MODE:

BLE mode

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2402	-6.86	8	PASS
2442	-7.34	8	PASS
2480	-7.06	8	PASS

NOTE: cable loss as 0.8dB that offsets in the spectrum

BT 5.0 MODE:

BLE mode

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2402	-10.32	8	PASS
2442	-10.81	8	PASS
2480	-10.67	8	PASS

NOTE: cable loss as 0.8dB that offsets in the spectrum

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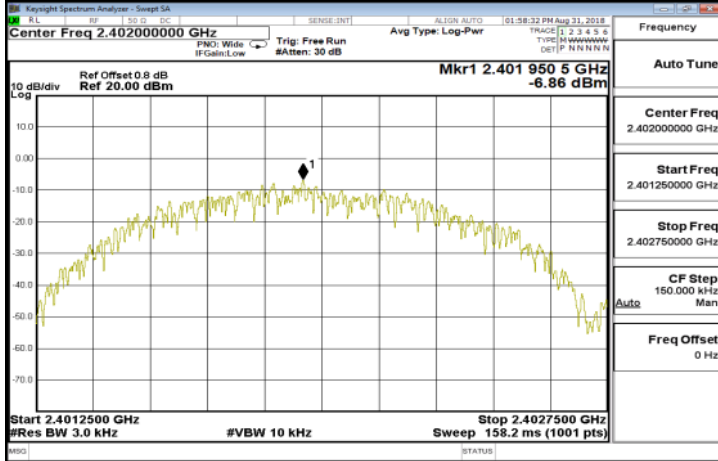
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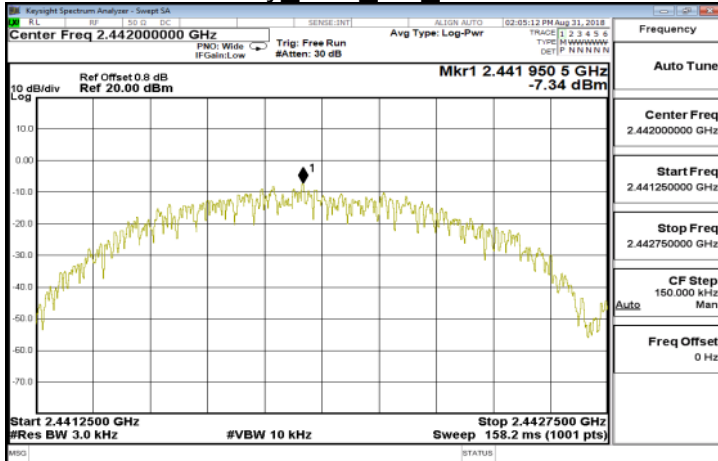
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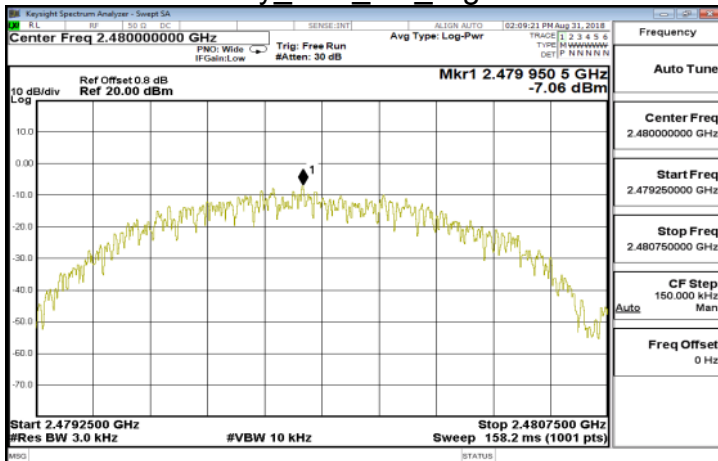
BLE MODE:
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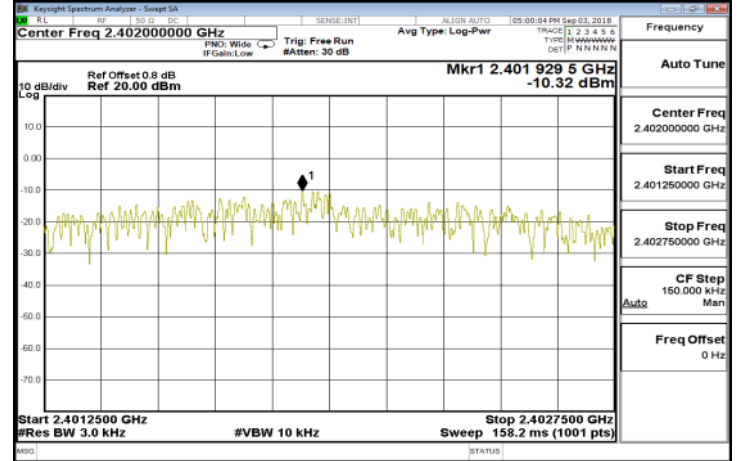
Power Density_BLE_1M_MidCH20-2442



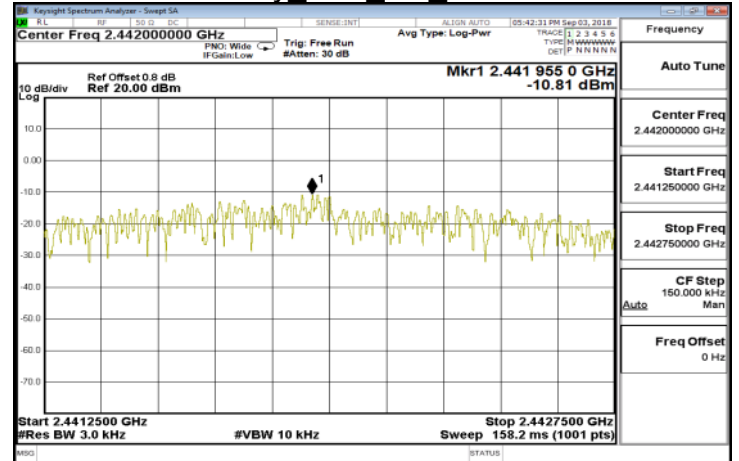
Power Density_BLE_1M_HighCH39-2480



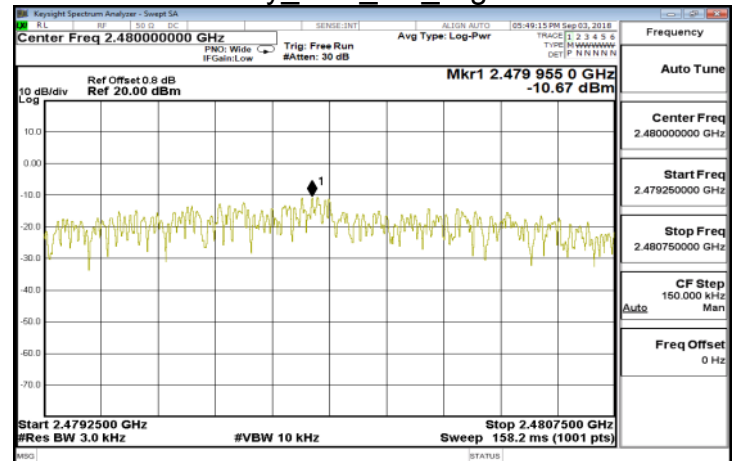
BT 5.0 MODE:
Power Density_BLE_1M_LowCH00-2402



Power Density_BLE_1M_MidCH20-2442



Power Density_BLE_1M_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.

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

In case of point-to-point operation, the power shall be reduced by the one dB for every 3 dB that the directional gain of antenna exceeds 6dBi.

12.2 Antenna Connected Construction:

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

~ End of Report ~

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