

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Applicant: Quanta Computer Inc.
No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City, Taiwan

Product Name: QOCA Portable ECG Monitoring Device

Brand Name: Quanta

Model No.: Q-ecg-wu3, Q-ecg-wu5

Model Difference: Refer to page 4 for detail

Report Number: T190702W02-RP

FCC ID: HFSCIB

FCC Rule Part: §15.247, Cat: DTS

Issue Date: Sep. 23, 2019

Date of Test: Jul. 02, 2019 ~ Jul. 24, 2019

Date of EUT Received: Jul. 02, 2019

Issued by: Compliance Certification Services Inc. Wugu Lab.
No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)
service@ccsrf.com

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

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

Tested By:
Hone Hsieh / Engineer**Approved By:**
Kevin Tsai / Deputy Manager

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190702W02-RP	Rev.00	Initial creation of document	All	Sep. 23, 2019	Elle Chang

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Table of Contents

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION	6
3	SUMMARY OF TEST RESULTS	9
4	DESCRIPTION OF TEST MODES.....	10
5	MEASUREMENT UNCERTAINTY	12
6	CONDUCTED EMISSION TEST	13
7	PEAK OUTPUT POWER MEASUREMENT	19
8	6dB BANDWIDTH MEASUREMENT	24
9	CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT	29
10	RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT.....	36
11	POWER SPECTRAL DENSITY	65
12	ANTENNA REQUIREMENT.....	68

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	QOCA Portable ECG Monitoring Device	
Brand Name:	Quanta	
Model No.:	Q-ecg-wu3, Q-ecg-wu5	
Model Difference:	Q-ecg-wu3	1. Charge current: 265mA R283:3.83k 2. Battery: 3.8V / 530mAh (AHA11106009) 3. Antenna: QTCIBBLPB01+A
	Q-ecg-wu5	1. Charge current: 112mA R283:9.09k 2. Battery: 3.8V / 220mAh (AHA11103009) 3. Antenna: QTCIBBLPB02+A
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	3.8Vdc from Rechargeable Li-ion Battery or 5V from USB Port	
	Battery:	1. Model No.: AHA11106009, Supplier: Guangdong An-energy Technology Co., LTD. 2. Model No.: AHA11103009, Supplier: Guangdong An-energy Technology Co., LTD.

Radio Technology:	Bluetooth LE Single mode
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Transmit Power:	BLE 1M: 3.74dBm BLE 2M: 3.75dBm
Modulation type:	GFSK
Antenna Designation:	FPC Antenna, Model No.: QTCIBBLPB01+A, Peak Gain: -1.52dBi FPC Antenna, Model No.: QTCIBBLPB02+A, Peak Gain: -1.73dBi

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas. Guidance v05r02

ANSI C63.10:2013

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

1.3 Test Facility

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,

Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

For all conducted test items:

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

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2.5 Configuration of Tested System

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



Fig 2-2 Radiated Emission



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

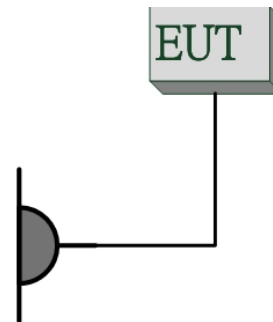


Table 2-1 Equipment Used in Tested System

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	T420	S0012407	Shielded	Unshielded
3	Notebook	Lenovo	T420	S0012483	Shielded	Unshielded

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.205 §15.209 §15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

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.

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	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
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

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable:

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

Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
CABLE	EMCI	CFD300-NL	CERF	06/27/2019	06/26/2020
EMI Test Receiver	R&S	ESCI	101203	10/29/2018	10/28/2019
LISN	SCHWARZ-BECK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

6.3 EUT Setup:

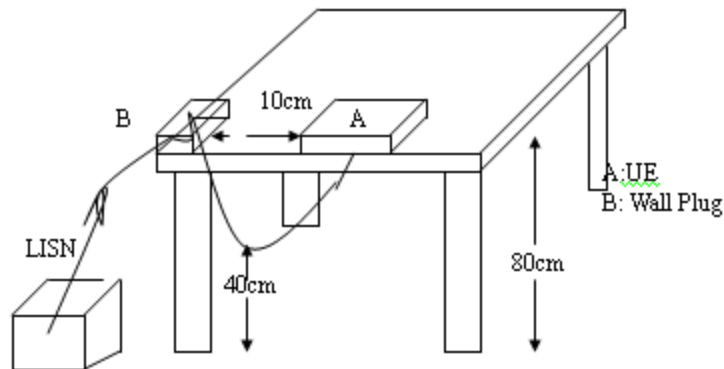
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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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.

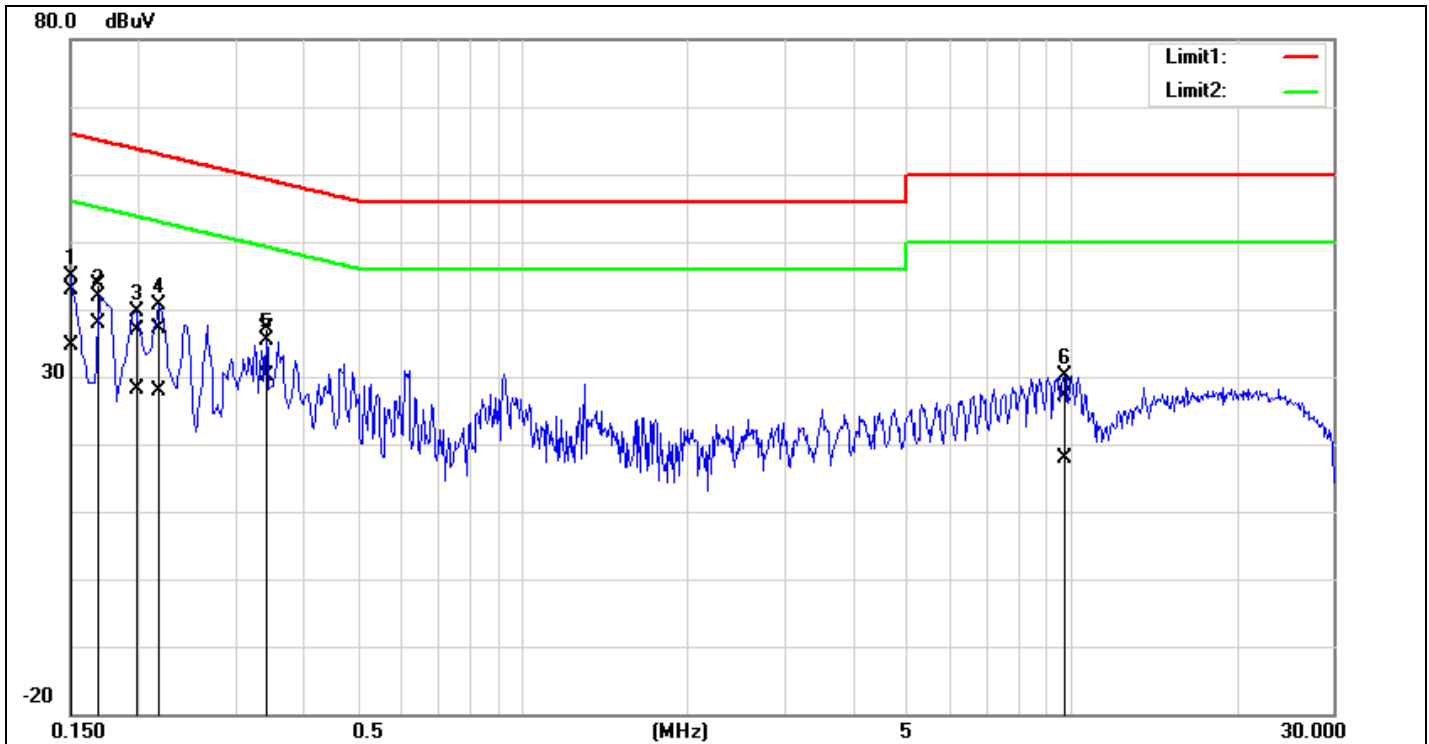
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation	Date:	2019/7/24
Line:	L1	Temp.(°C)/Hum.(%)	26.7(°C)/66%
Test Voltage:	AC 120V/60Hz	Test By:	Henry
Model No.:	Q-ecg-wu3		



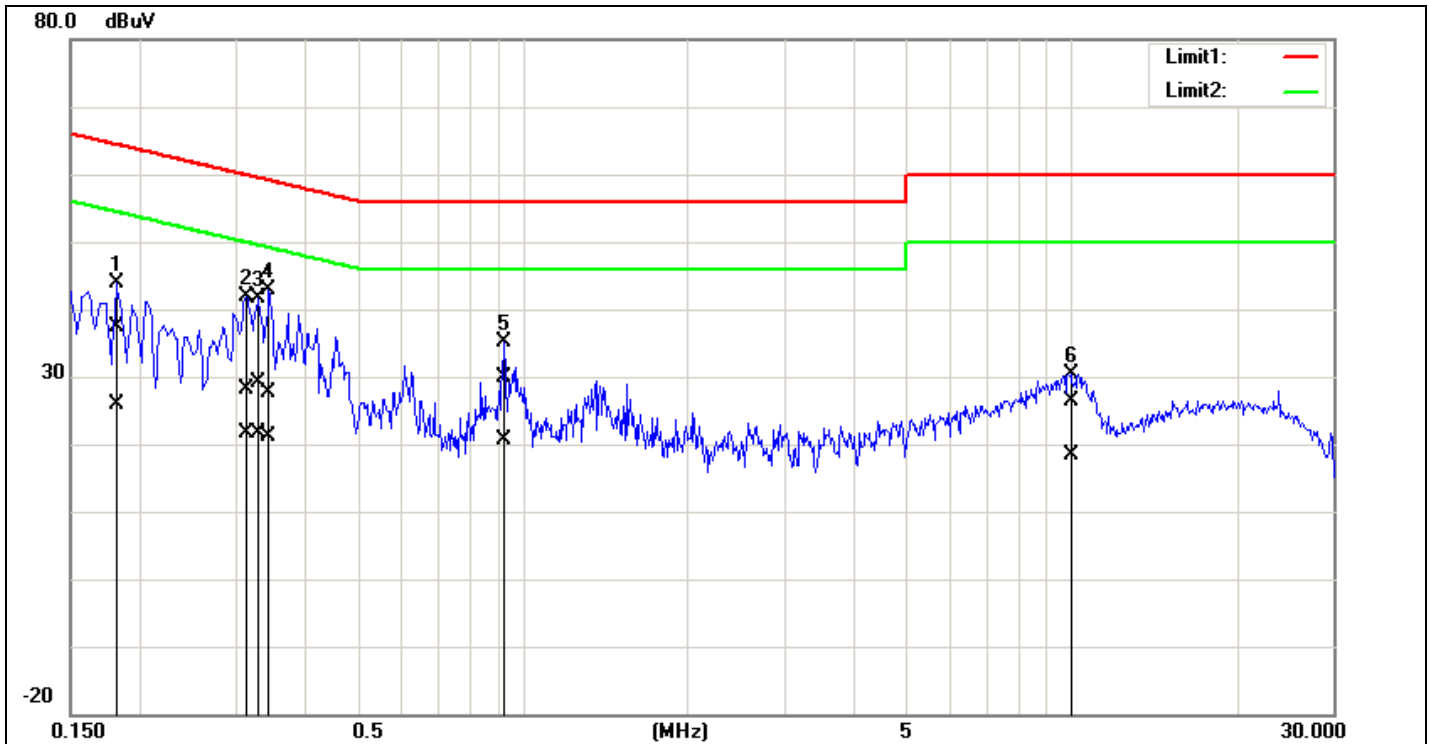
No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1500	32.80	24.61	10.14	42.94	34.75	65.99	56.00	-23.05	-21.25	Pass
2*	0.1700	33.57	27.72	10.14	43.71	37.86	64.96	54.96	-21.25	-17.10	Pass
3	0.1980	26.68	18.11	10.13	36.81	28.24	63.69	53.69	-26.88	-25.45	Pass
4	0.2180	26.88	17.72	10.13	37.01	27.85	62.89	52.89	-25.88	-25.04	Pass
5	0.3420	27.01	20.10	10.14	37.15	30.24	59.15	49.15	-22.00	-18.91	Pass
6	9.7380	16.68	7.61	10.35	27.03	17.96	60.00	50.00	-32.97	-32.04	Pass

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Description:	Operation	Date:	2019/7/24
Line:	N	Temp.(°C)/Hum.(%):	26.7(°C)/66%
Test Voltage:	AC 120V/60Hz	Test By:	Henry
Model No.:	Q-ecg-wu3		



No.	Frequen- cy	Qua- siPeak reading	Aver- age reading	Correc- tion factor	Qua- siPeak result	Aver- age result	Qua- siPeak limit	Aver- age limit	Qua- siPeak margin	Aver- age margin	Re- mark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1819	27.40	15.81	10.02	37.42	25.83	64.39	54.40	-26.97	-28.57	Pass
2	0.3140	18.20	11.65	10.03	28.23	21.68	59.86	49.86	-31.63	-28.18	Pass
3	0.3300	19.22	11.50	10.03	29.25	21.53	59.45	49.45	-30.20	-27.92	Pass
4	0.3460	17.49	11.15	10.03	27.52	21.18	59.06	49.06	-31.54	-27.88	Pass
5*	0.9260	19.96	10.53	10.04	30.00	20.57	56.00	46.00	-26.00	-25.43	Pass
6	9.9660	16.06	8.12	10.22	26.28	18.34	60.00	50.00	-33.72	-31.66	Pass

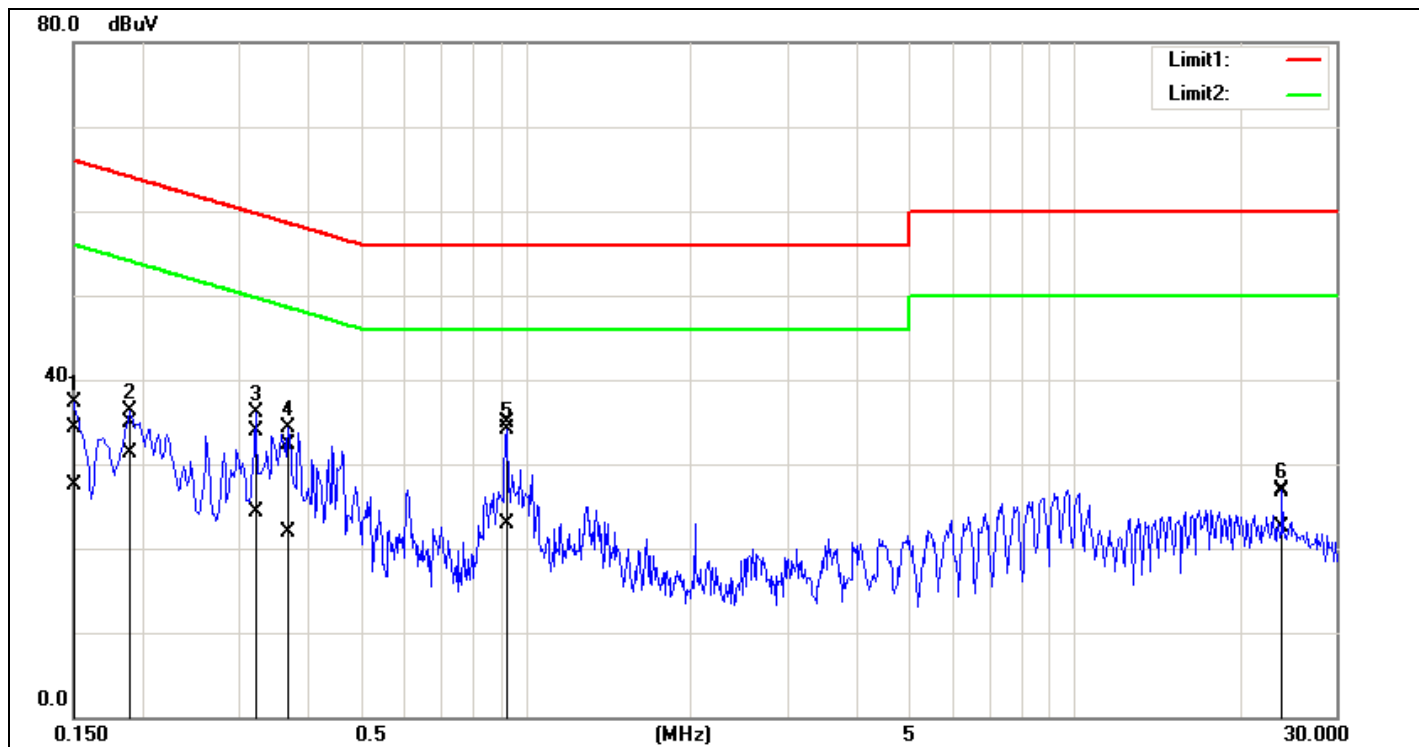
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation	Date:	2019/7/23
Line:	L1	Temp.(°C)/Hum.(%):	25.4(°C)/65%
Test Voltage:	AC 120V/60Hz	Test By:	Henry
Model No.:	Q-ecg-wu5		



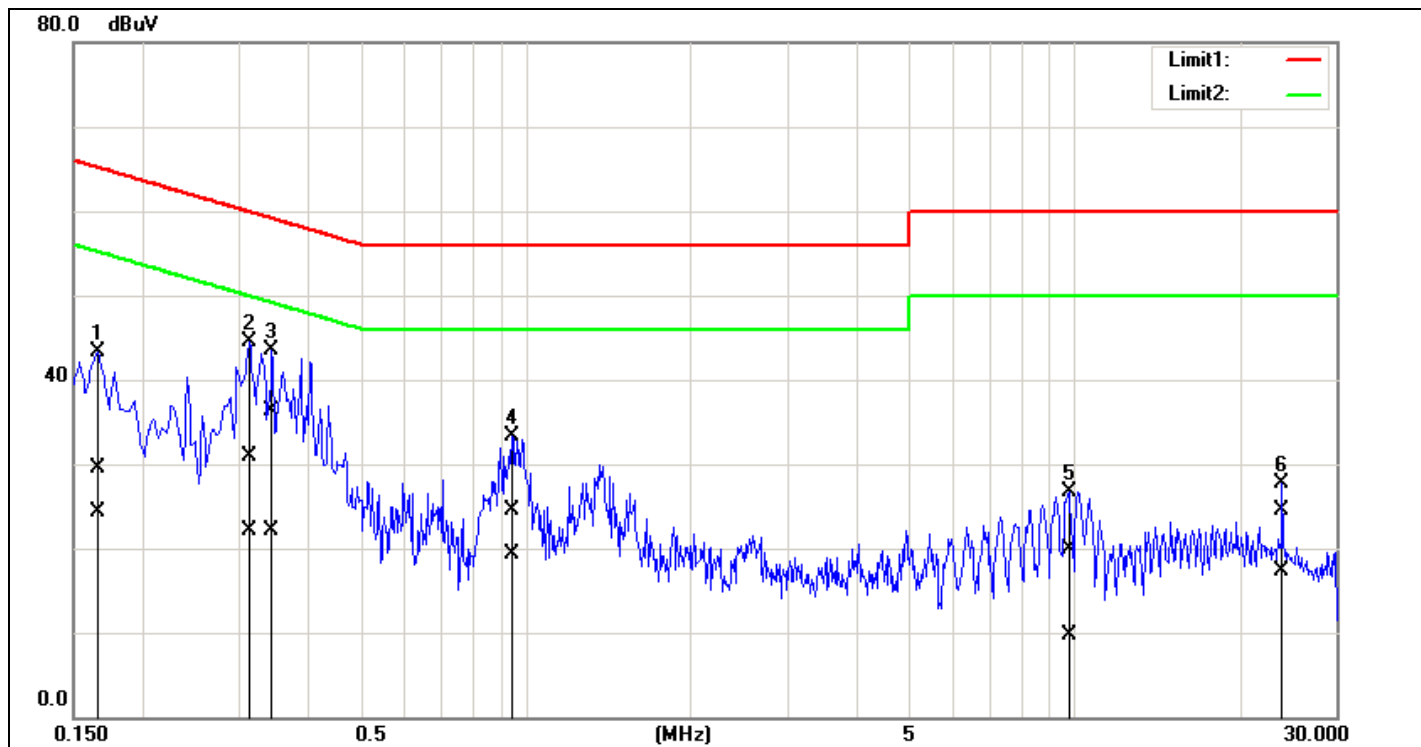
No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1500	24.12	17.36	10.14	34.26	27.50	65.99	56.00	-31.73	-28.50	Pass
2	0.1900	24.68	21.26	10.13	34.81	31.39	64.03	54.04	-29.22	-22.65	Pass
3	0.3220	23.80	14.09	10.14	33.94	24.23	59.65	49.66	-25.71	-25.43	Pass
4	0.3700	22.16	11.79	10.14	32.30	21.93	58.50	48.50	-26.20	-26.57	Pass
5*	0.9260	24.65	12.81	10.17	34.82	22.98	56.00	46.00	-21.18	-23.02	Pass
6	23.9220	16.42	12.21	10.28	26.70	22.49	60.00	50.00	-33.30	-27.51	Pass

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Description:	Operation	Date:	2019/7/23
Line:	N	Temp.(°C)/Hum.(%):	25.4(°C)/65%
Test Voltage:	AC 120V/60Hz	Test By:	Henry
Model No.:	Q-ecg-wu5		



No.	Frequen- cy	Qua- siPeak reading	Aver- age reading	Correc- tion factor	Qua- siPeak result	Aver- age result	Qua- siPeak limit	Aver- age limit	Qua- siPeak margin	Aver- age margin	Re- mark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1660	19.55	14.35	10.02	29.57	24.37	65.15	55.16	-35.58	-30.79	Pass
2	0.3140	20.89	12.07	10.03	30.92	22.10	59.86	49.86	-28.94	-27.76	Pass
3*	0.3460	26.34	12.04	10.03	36.37	22.07	59.06	49.06	-22.69	-26.99	Pass
4	0.9460	14.45	9.20	10.04	24.49	19.24	56.00	46.00	-31.51	-26.76	Pass
5	9.7660	9.60	-0.58	10.22	19.82	9.64	60.00	50.00	-40.18	-40.36	Pass
6	23.9220	14.13	7.02	10.36	24.49	17.38	60.00	50.00	-35.51	-32.62	Pass

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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.

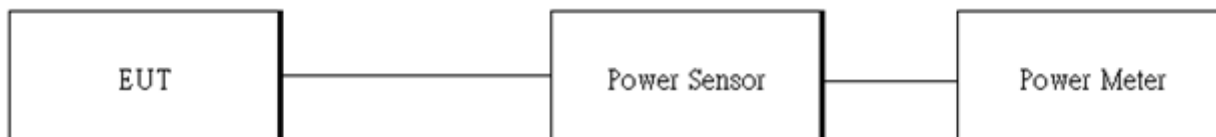
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

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	08/03/2018	08/02/2019
Power Sensor	Anritsu	MA2411B	1315048	08/03/2018	08/02/2019
Power Sensor	Anritsu	MA2411B	1315049	08/03/2018	08/02/2019

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.
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.

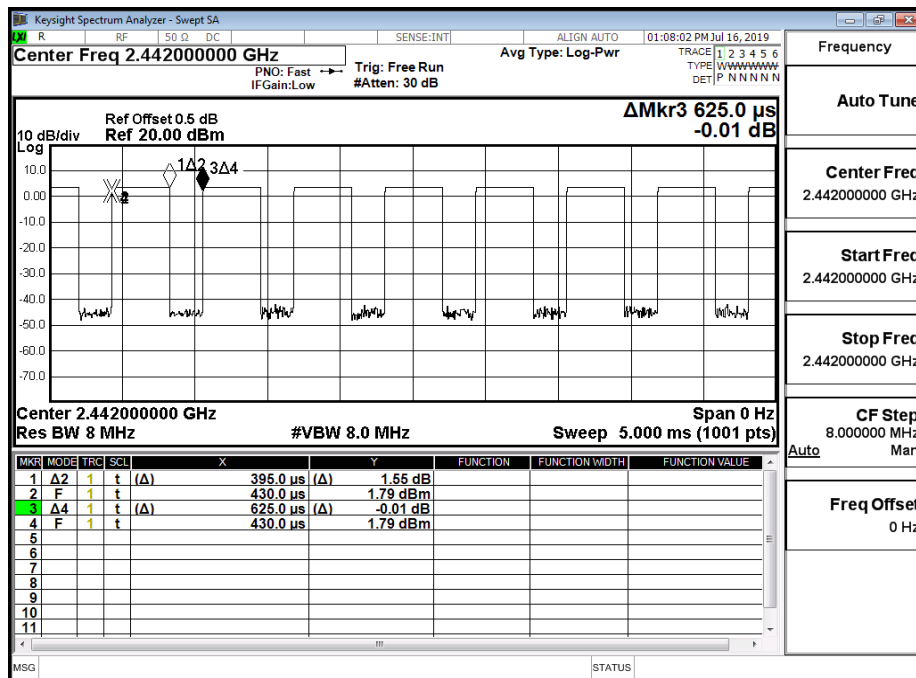
4. Record the max. Reading as observed from Power Meter.
5. Repeat above procedures until all test default channel measured was complete.

Formula:

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

Duty Factor:

	Duty Cycle (%)	Duty Factor (dB)	1/T (kHz)	VBW setting (kHz)
BLE	63.00	2.01	2.53	3.00



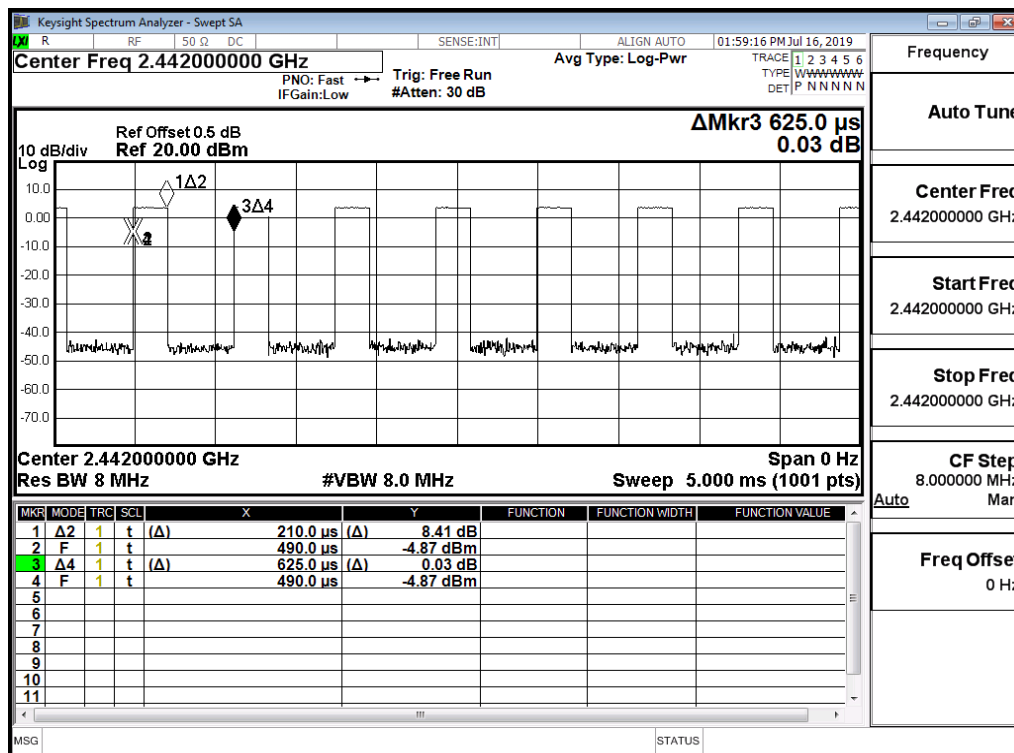
Duty Cycle Factor: $10 \cdot \log(1/(63/100)) = 2.01$

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	Duty Cycle (%)	Duty Factor (dB)	1/T (kHz)	VBW setting (kHz)
BLE 2M	34.00	4.69	4.76	5.00



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

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7.5 Measurement Result:

BLE mode:

CH	Frequency (MHz)	Peak Power Output (dBm)	Required Limit
Low	2402	3.74	1 Watt = 30 dBm
Mid	2442	3.69	1 Watt = 30 dBm
High	2480	3.66	1 Watt = 30 dBm
BLE mode:			
CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit
Low	2402	3.69	1 Watt = 30 dBm
Mid	2442	3.65	1 Watt = 30 dBm
High	2480	3.59	1 Watt = 30 dBm

*Note: Measured by power meter, cable loss as 0.5 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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BLE 2M mode:

CH	Frequency (MHz)	Peak Power Output (dBm)	Required Limit
Low	2402	3.75	1 Watt = 30 dBm
Mid	2442	3.74	1 Watt = 30 dBm
High	2480	3.70	1 Watt = 30 dBm

BLE 2M mode:

CH	Frequency (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit
Low	2402	3.40	1 Watt = 30 dBm
Mid	2442	3.58	1 Watt = 30 dBm
High	2480	3.57	1 Watt = 30 dBm

**Note: Measured by power meter, cable loss as 0.5 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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8 6DB 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.
DC Block	PASTERNAK	PE8210	RF256	02/26/2019	02/25/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019

8.3 Test Set-up:



8.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. For 6dB Bandwidth:
Set the spectrum analyzer as RBW=100 kHz, VBW= 3*RBW, Span = 5MHz, Detector=Peak, Sweep=auto.
5. Mark the peak frequency and -6dB (upper and lower) frequency.
6. For 99% Bandwidth:
Set the spectrum analyzer as RBW=1%, VBW=3*RBW, Span = 2MHz, Detector=Sample, Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all test default channel is completed

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8.5 Measurement Result:

BLE mode

Frequency (MHz)	6dB BW (MHz)	BW (MHz)	Result
2402	0.7125	> 0.5	PASS
2442	0.7125	> 0.5	PASS
2480	0.7132	> 0.5	PASS

BLE 2M mode

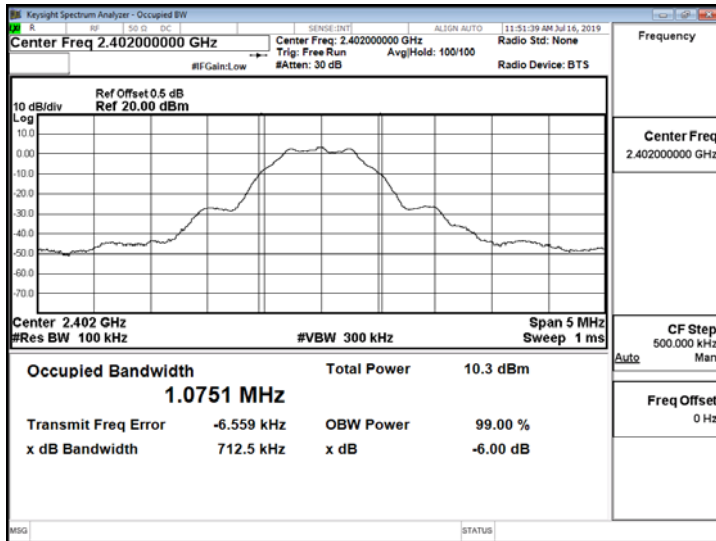
Frequency (MHz)	6dB BW (MHz)	BW (MHz)	Result
2402	1.153	> 0.5	PASS
2442	1.166	> 0.5	PASS
2480	1.168	> 0.5	PASS

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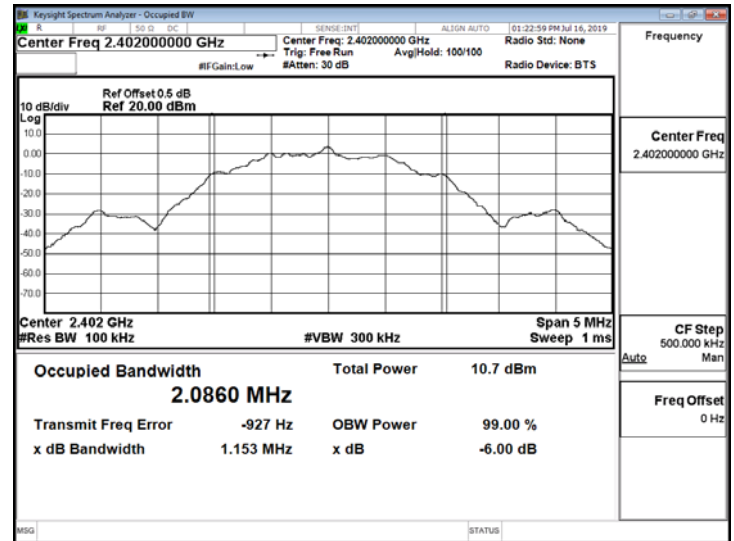
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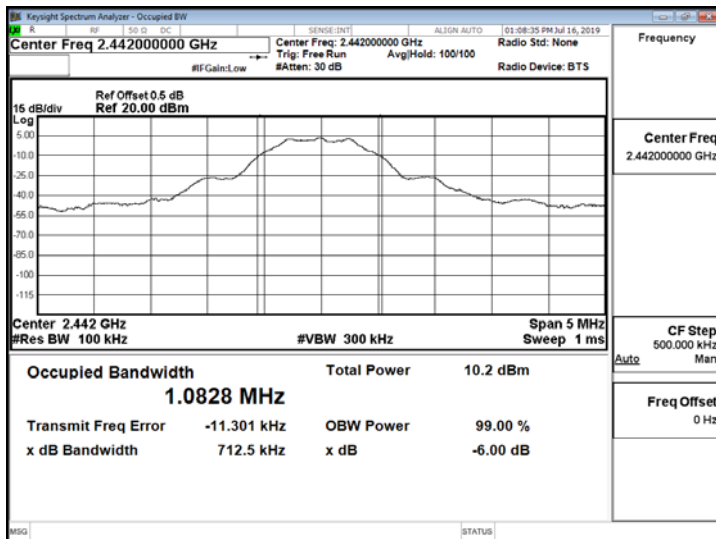
BLE mode 1M 6dB Band Width Test Data CH-Low



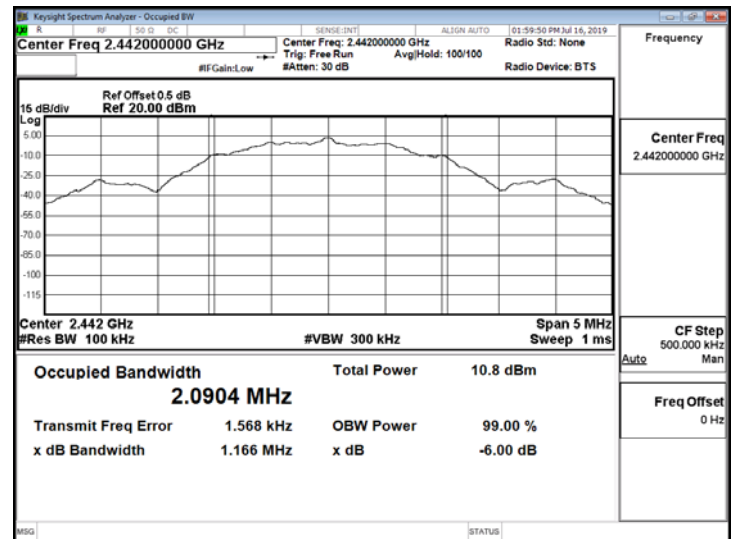
BLE mode 2M 6dB Band Width Test Data CH-Low



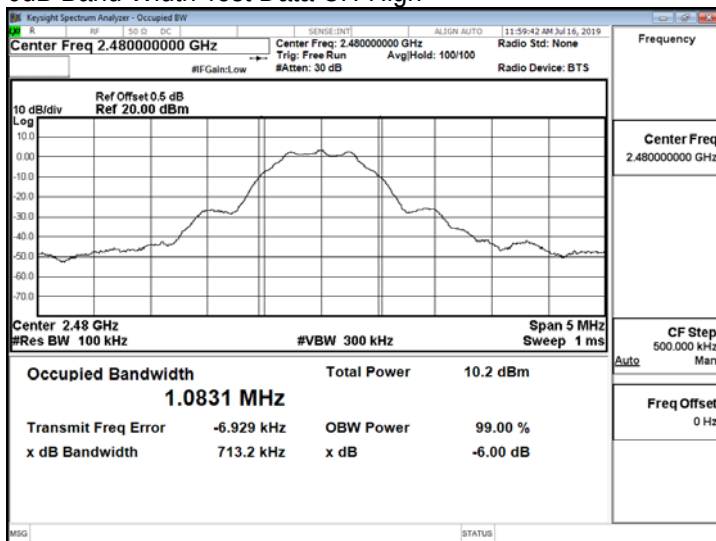
6dB Band Width Test Data CH-Mid



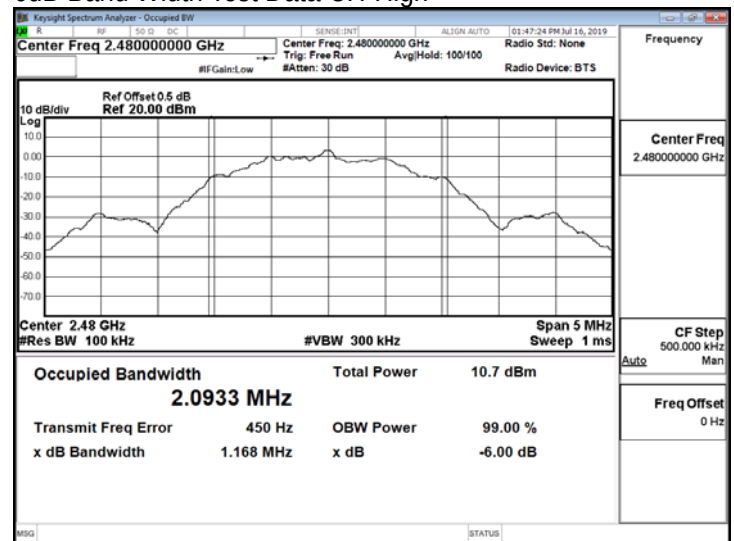
6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-High



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Spurious Emission_BLE_1M_LowCH00-2402

Spurious Emission_BLE_1M_MidCH19-2442

Spurious Emission_BLE_1M_HighCH39-2480

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Spurious Emission_BLE_2M_LowCH00-2402

Spurious Emission_BLE_2M_MidCH19-2442

Spurious Emission_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), must also comply with the radiated emission limits specified in §15.209(a).

9.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTERNAK	PE8210	RF256	02/26/2019	02/25/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019

9.3 Test SET-UP:



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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.

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. 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 (2400~2483.5MHz) 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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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.

9.5 Measurement Result

BLE

Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	3.34	-16.66
2442	3.27	-16.73
2480	3.26	-16.74

NOTE: cable loss as 0.5dB that offsets in the spectrum

NOTE: Refer to next page for plots.

BLE 2M

Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	3.42	-16.58
2442	3.44	-16.56
2480	3.40	-16.60

NOTE: cable loss as 0.5dB that offsets in the spectrum

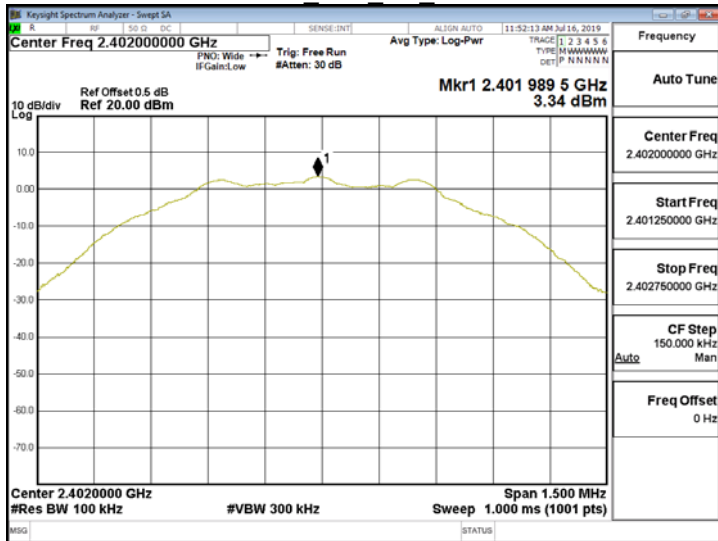
NOTE: Refer to next page for plots.

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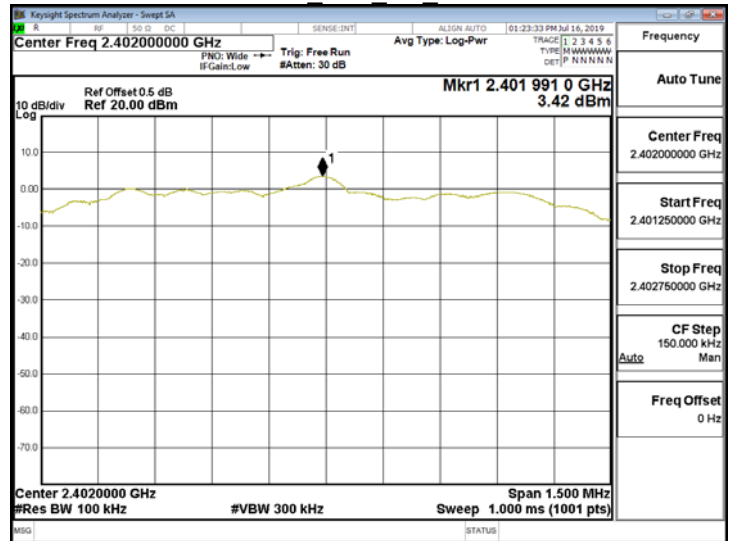
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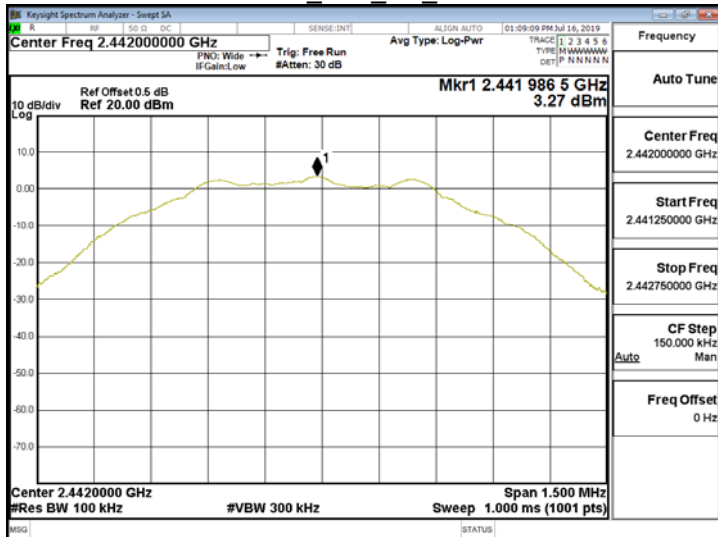
Reference Level BLE 1M LowCH00-2402



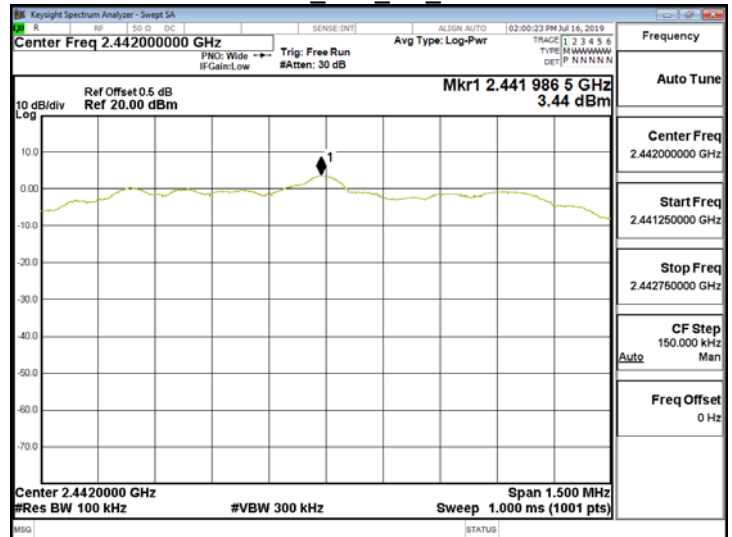
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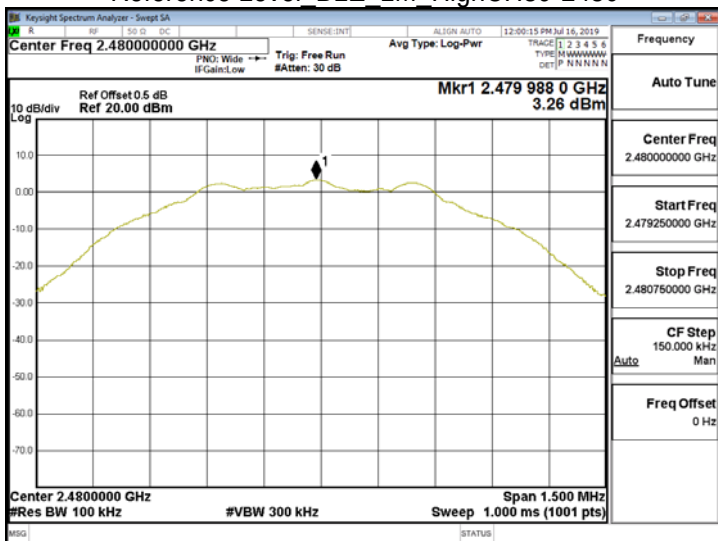
Reference Level BLE 1M MidCH19-2442



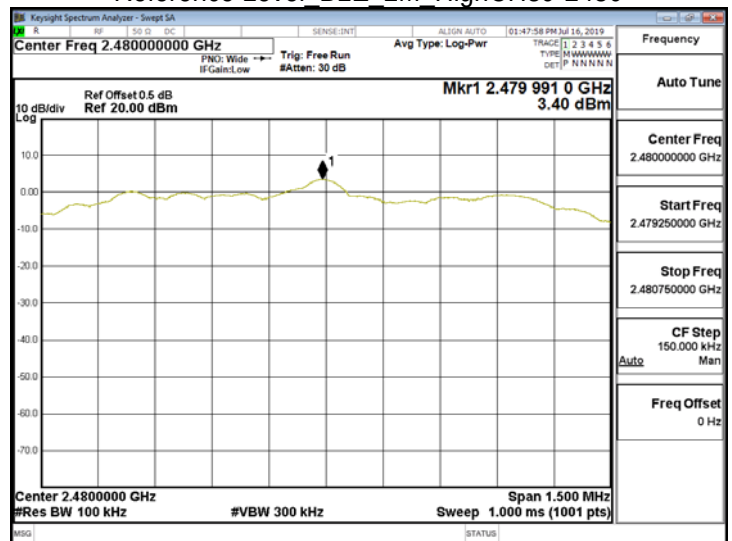
Reference Level BLE 2M MidCH19-2442



Reference Level BLE 1M HighCH39-2480



Reference Level BLE 2M HighCH39-2480

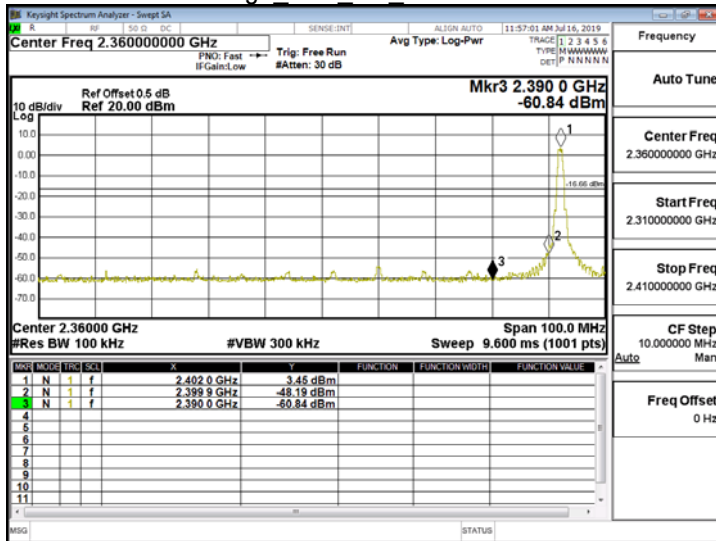


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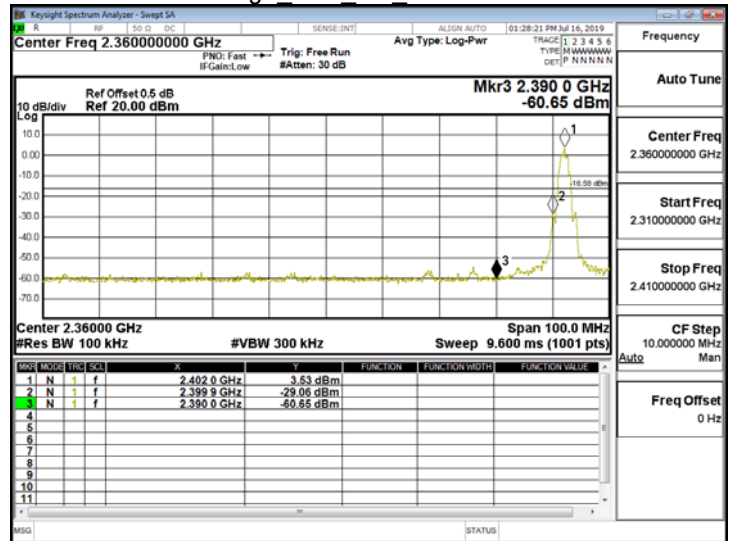
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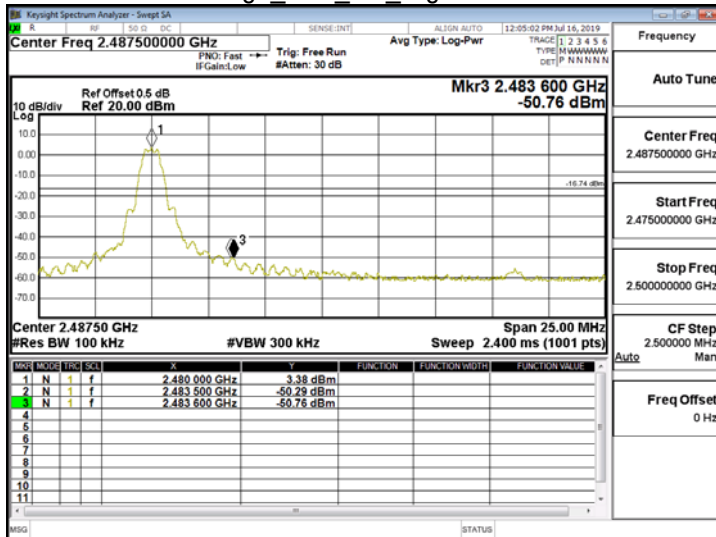
Band Edge BLE 1M LowCH00-2402



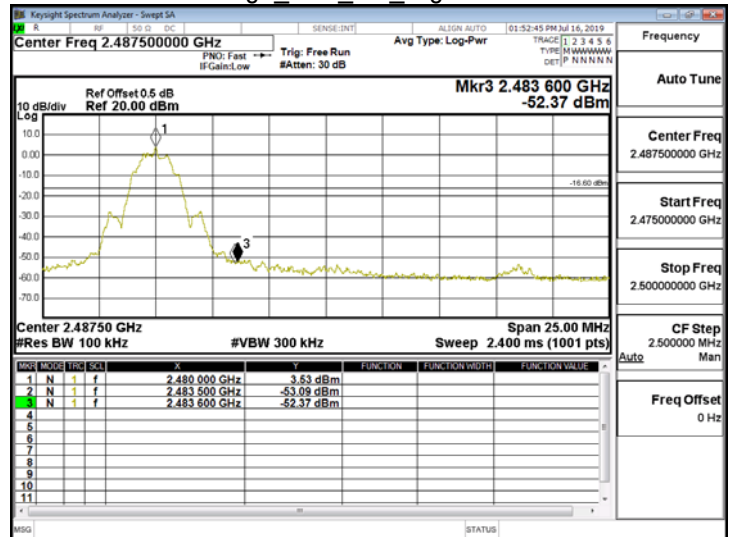
Band Edge BLE 2M LowCH00-2402



Band Edge BLE 1M HighCH39-2480



Band Edge BLE 2M HighCH39-2480

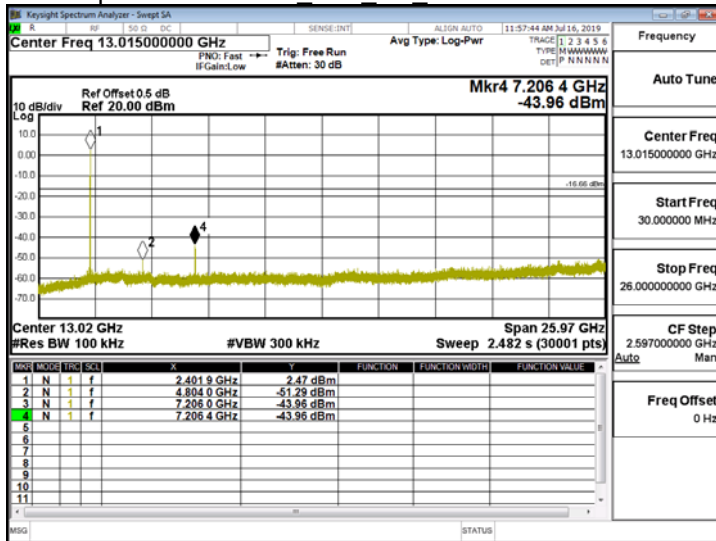


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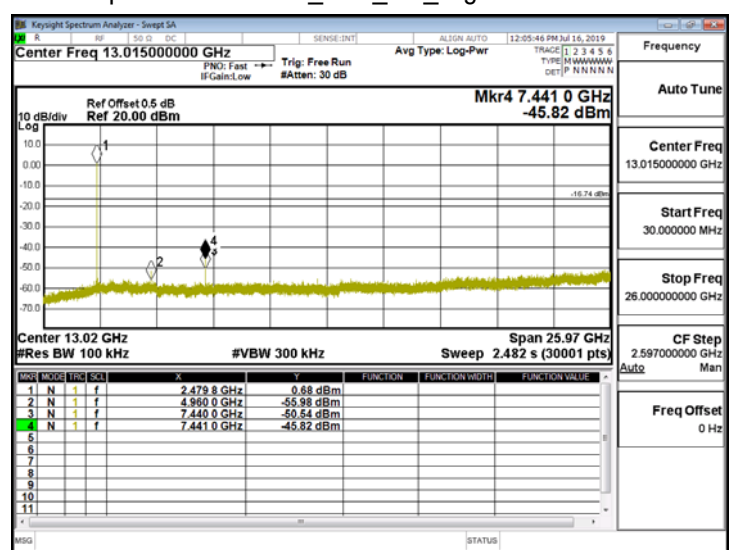
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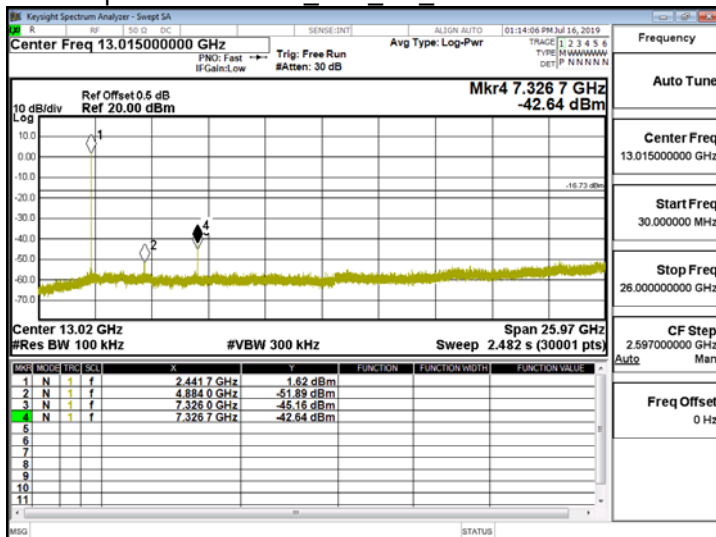
Spurious Emission BLE 1M LowCH00-2402



Spurious Emission_BLE_1M_HighCH39-2480



Spurious Emission_BLE_1M_MidCH19-2442

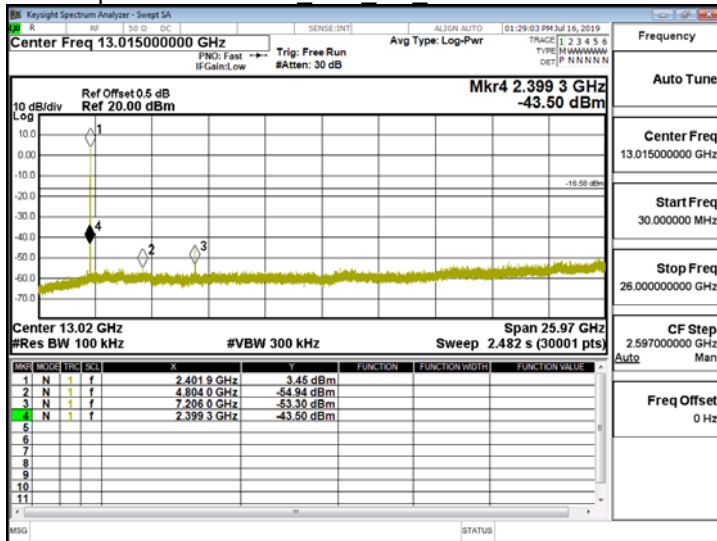


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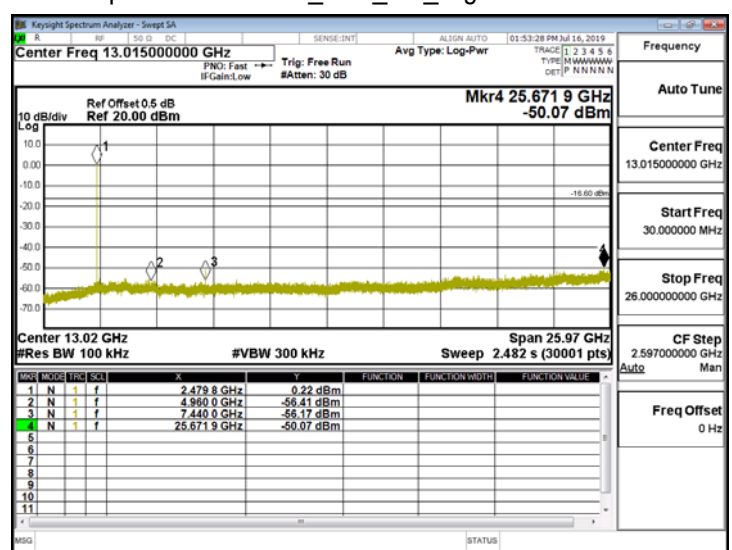
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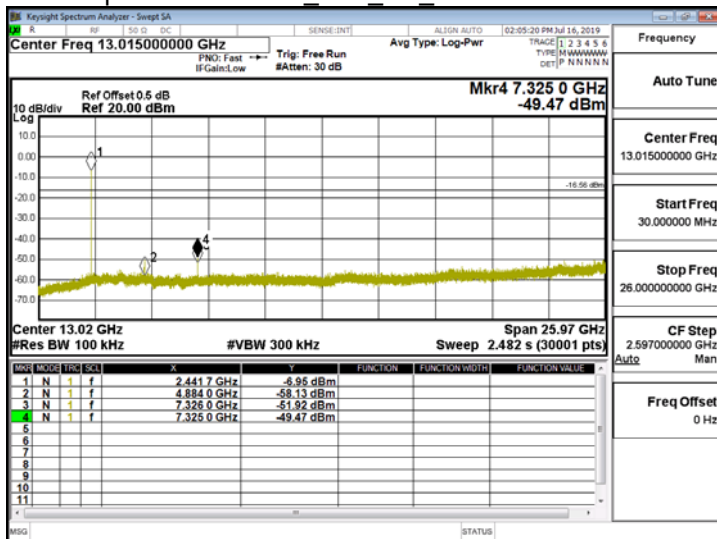
Spurious Emission BLE 2M LowCH00-2402



Spurious Emission_BLE_2M_HighCH39-2480



Spurious Emission_BLE_2M_MidCH19-2442



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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 limit as below.

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

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

Note:

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

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10.2 Measurement Equipment Used

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Low Pass Filter	EWT	EWT-56-0019	RF46	02/26/2019	02/25/2020
High Pass Filter	R&S	F13 HPF 3GHz	RF64	02/26/2019	02/25/2020
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB1	A052609	03/06/2019	03/05/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Horn Antenna	ETS LINDGREN	3116	00026370	12/26/2018	12/25/2019
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

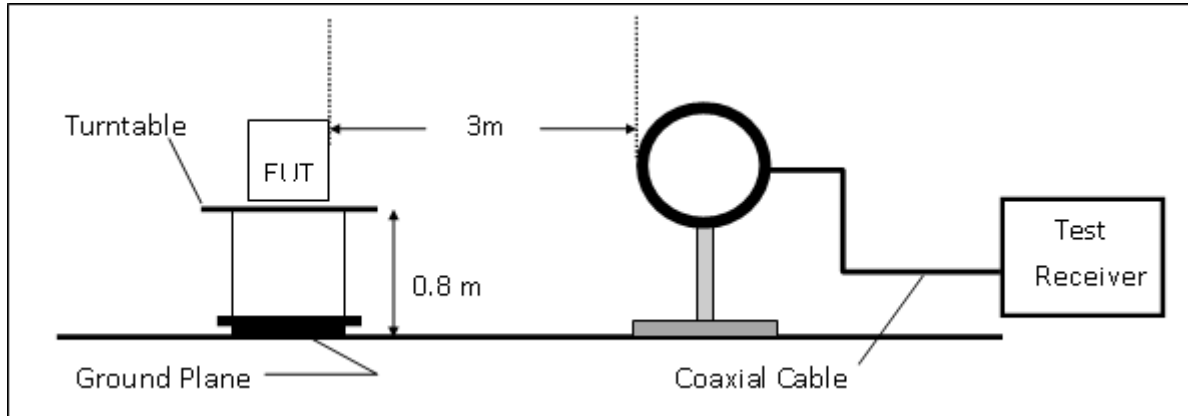
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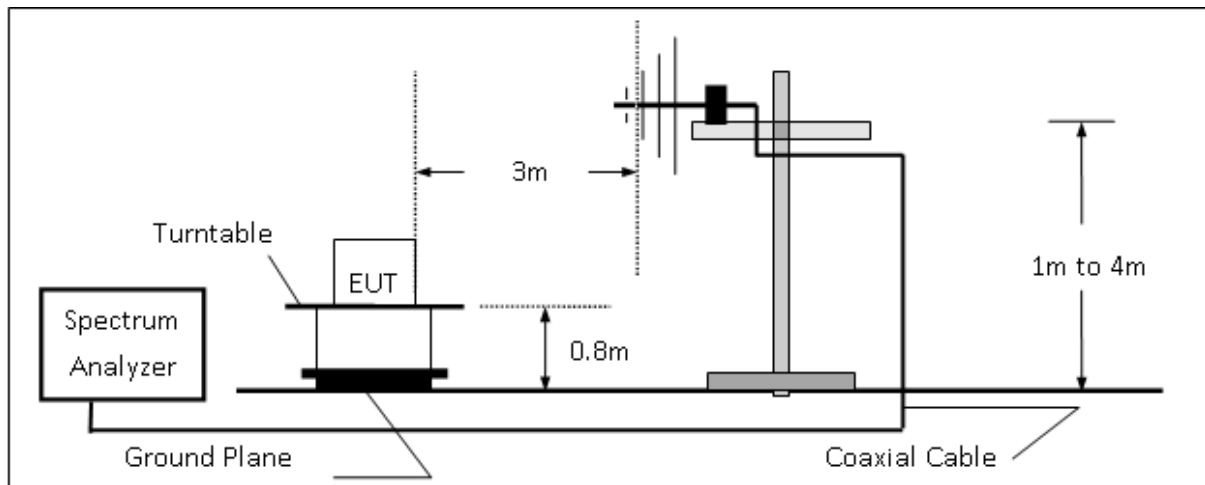
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10.3 Test SET-UP

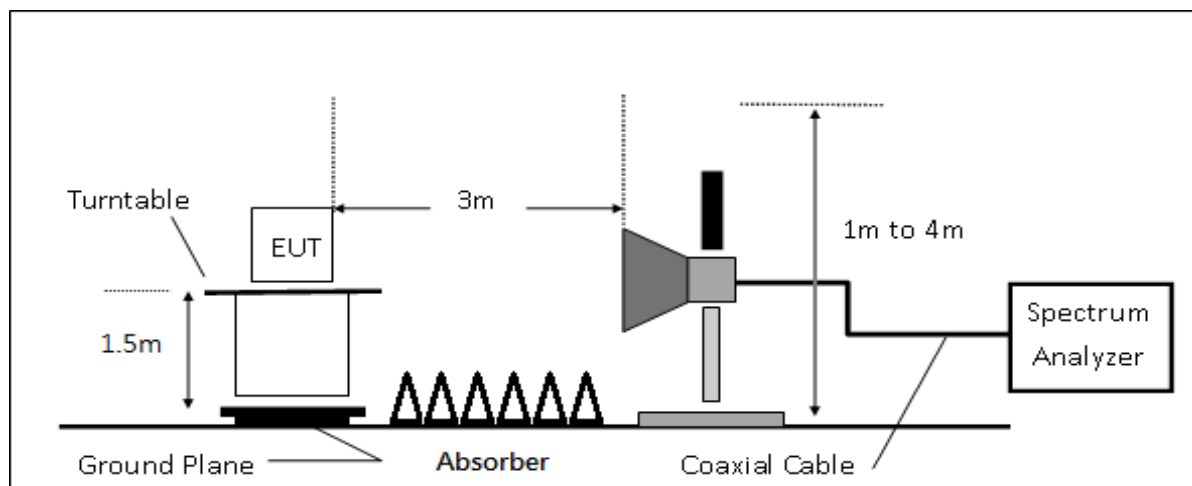
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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	

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

Factor(dB) = Antenna Factor(dBμV/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) was not reported.

10.7 Measurement Result:

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

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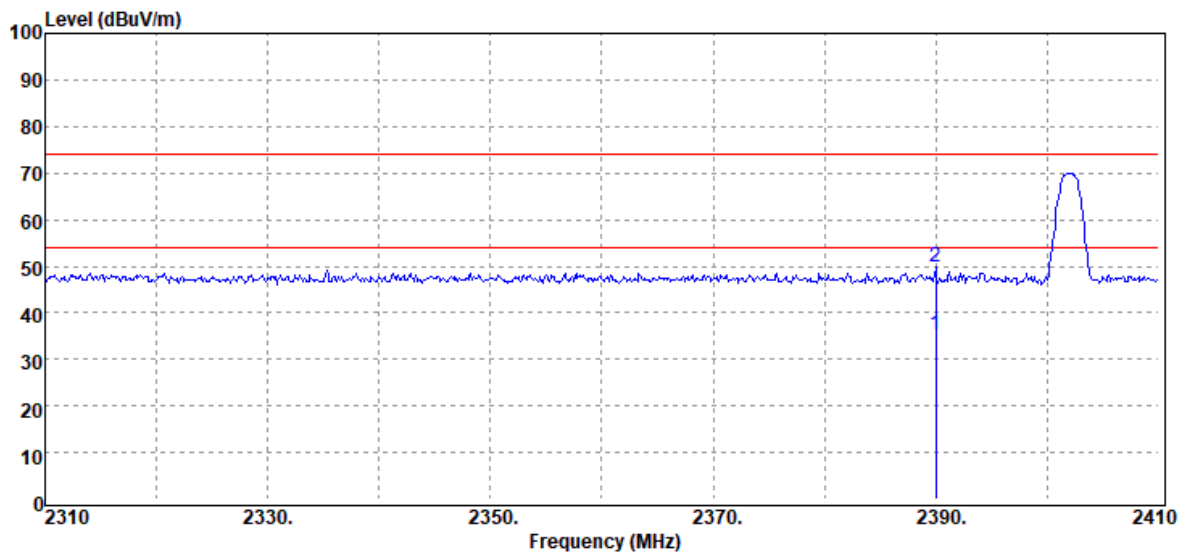
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Radiated Band Edge Measurement Result

Report Number :T190702W02
Operation Band :BLE 1M
Frequency :2402 MHz
Operation Mode :BE CH LOW
EUT Pol. :E2 Plan

Test Date :2019-07-19
Temp./Humi. :23.8/46
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.83	-3.38	35.45	54.00	-18.55
2390.00	Peak	53.32	-3.38	49.94	74.00	-24.06

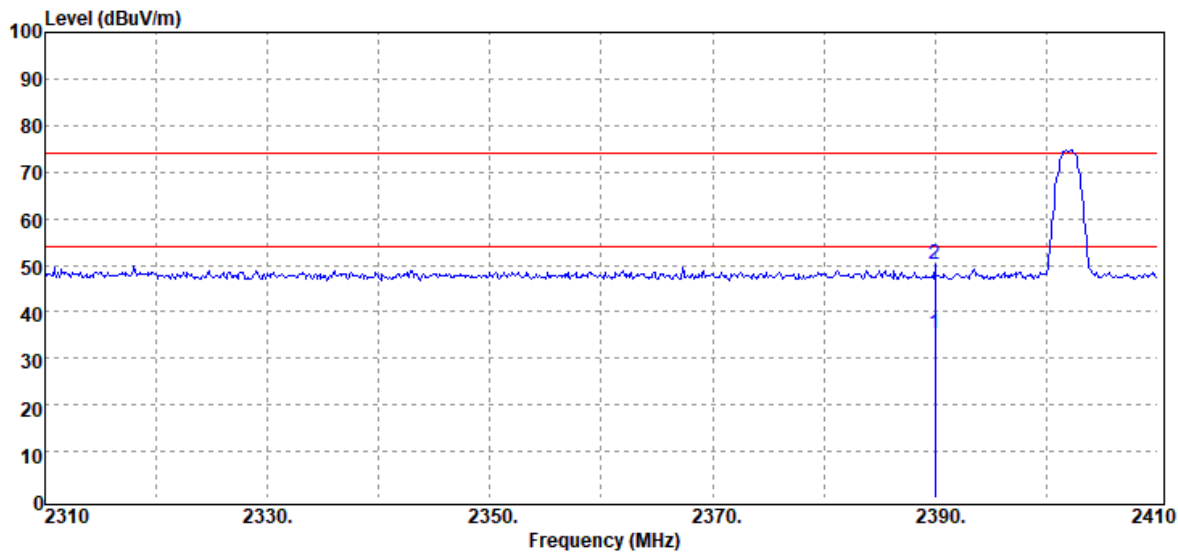
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Report Number :T190702W02
Operation Band :BLE 1M
Frequency :2402 MHz
Operation Mode :BE CH LOW
EUT Pol. :E2 Plan

Test Date :2019-07-19
Temp./Humi. :23.8/46
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.76	-3.38	35.38	54.00	-18.62
2390.00	Peak	53.45	-3.38	50.07	74.00	-23.93

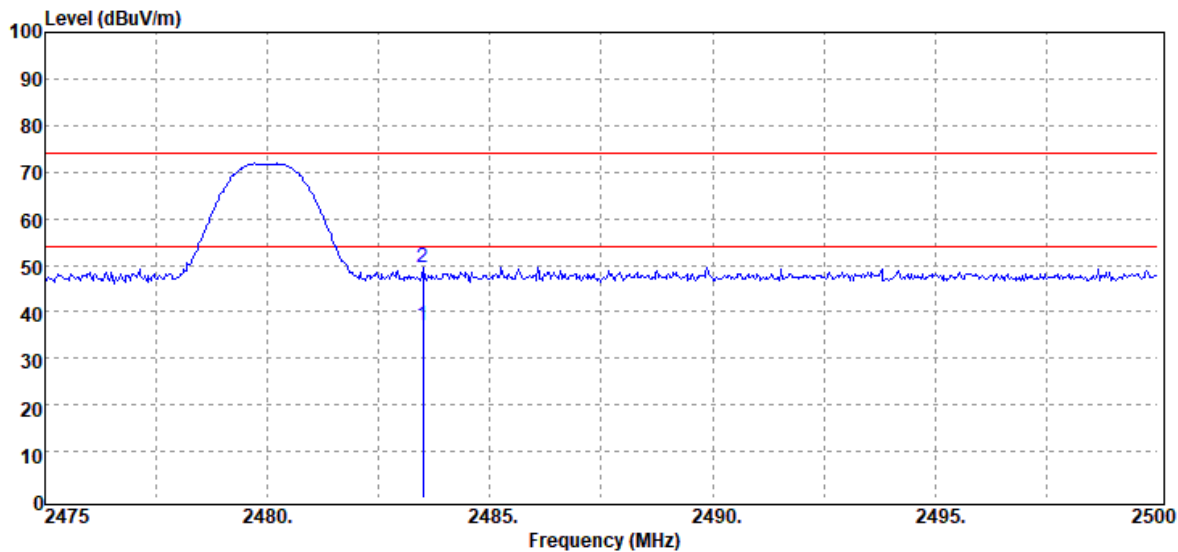
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Report Number :T190702W02
Operation Band :BLE 1M
Frequency :2480 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-07-19
Temp./Humi. :23.8/46
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	39.78	-2.83	36.95	54.00	-17.05
2483.50	Peak	52.20	-2.83	49.37	74.00	-24.63

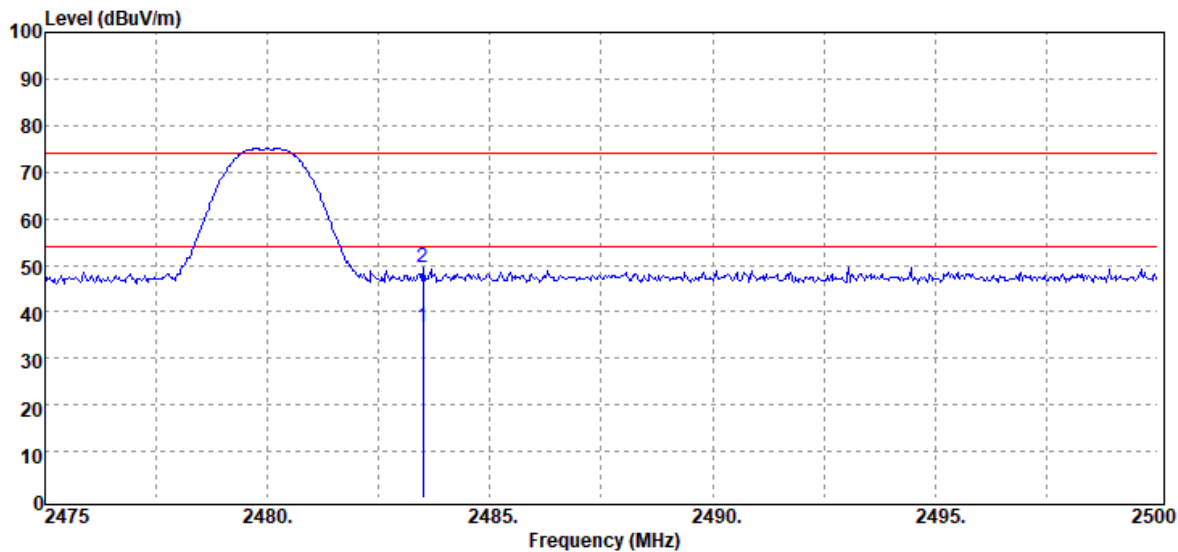
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Report Number :T190702W02
Operation Band :BLE 1M
Frequency :2480 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-07-19
Temp./Humi. :23.8/46
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	39.58	-2.83	36.75	54.00	-17.25
2483.50	Peak	52.31	-2.83	49.48	74.00	-24.52

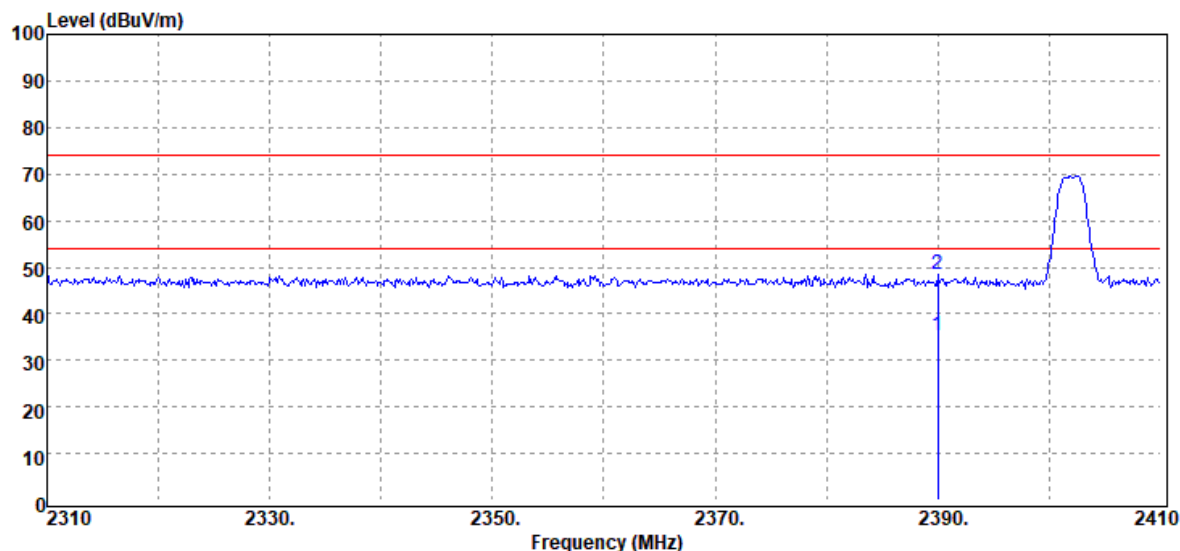
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Report Number :T190702W02
Operation Band :BLE 2M
Frequency :2402 MHz
Operation Mode :BE CH LOW
EUT Pol. :E2 Plan

Test Date :2019-07-19
Temp./Humi. :23.9/47
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.68	-3.38	35.30	54.00	-18.70
2390.00	Peak	51.77	-3.38	48.39	74.00	-25.61

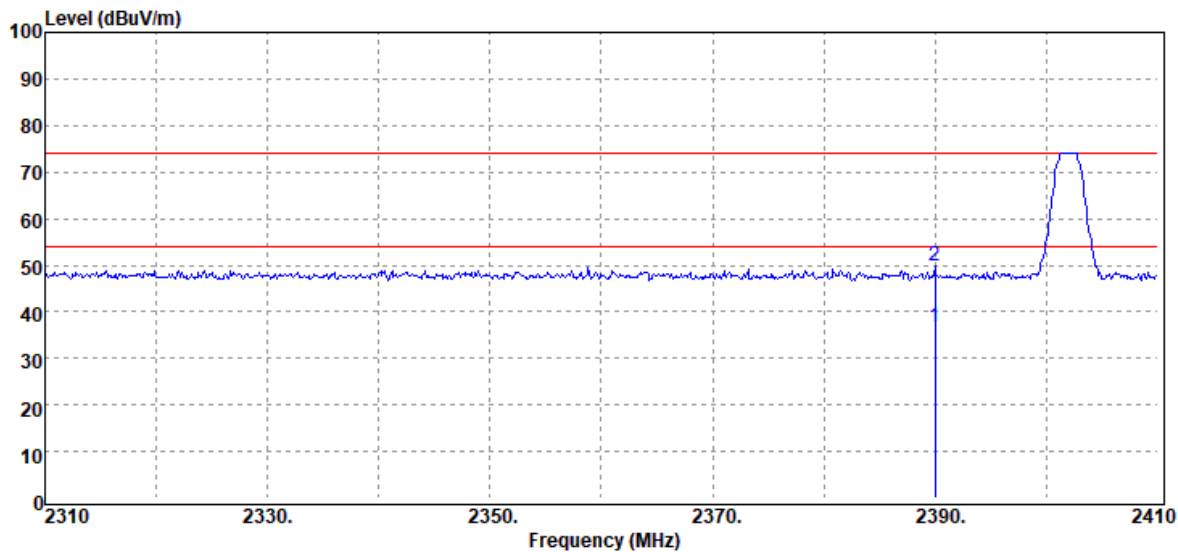
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Report Number :T190702W02
Operation Band :BLE 2M
Frequency :2402 MHz
Operation Mode :BE CH LOW
EUT Pol. :E2 Plan

Test Date :2019-07-19
Temp./Humi. :23.9/47
Antenna Pol. :HORIZONTAL
Engineer :Kailin



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	40.10	-3.38	36.72	54.00	-17.28
2390.00	Peak	53.28	-3.38	49.90	74.00	-24.10

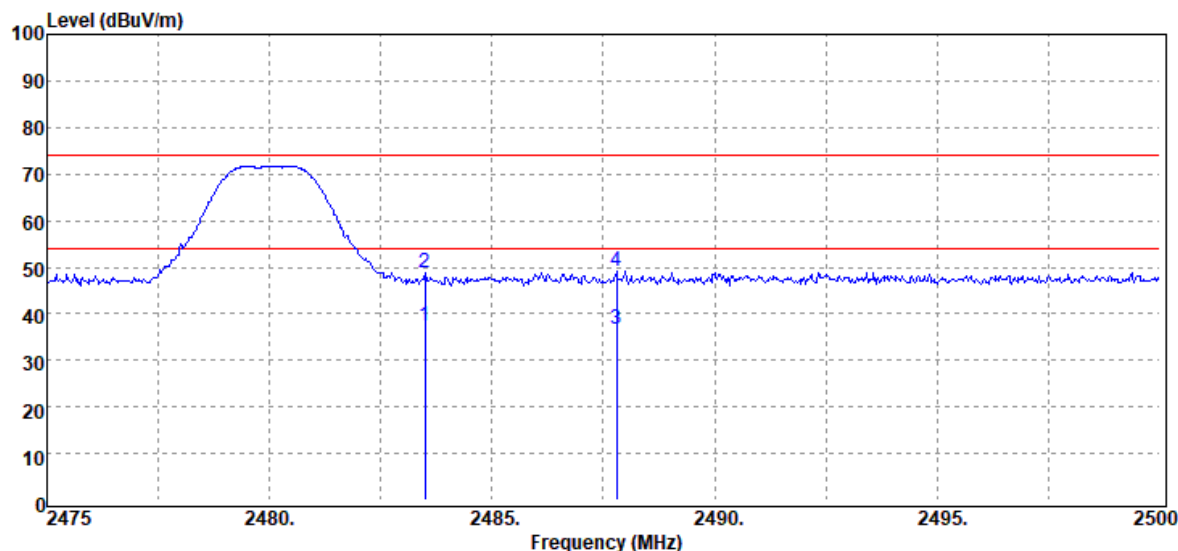
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Report Number :T190702W02
Operation Band :BLE 2M
Frequency :2480 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-07-19
Temp./Humi. :23.9/47
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	40.11	-2.83	37.28	54.00	-16.72
2483.50	Peak	51.78	-2.83	48.95	74.00	-25.05
2487.80	Average	39.48	-2.80	36.68	54.00	-17.32
2487.80	Peak	51.96	-2.80	49.16	74.00	-24.84

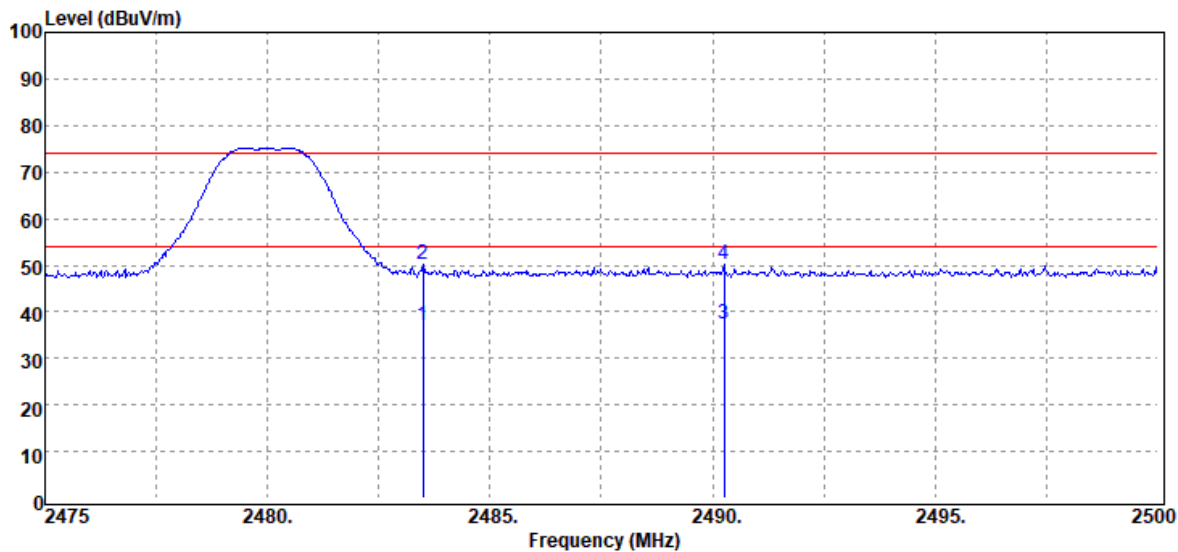
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Report Number :T190702W02
Operation Band :BLE 2M
Frequency :2480 MHz
Operation Mode :BE CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-07-19
Temp./Humi. :23.9/47
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	39.78	-2.83	36.95	54.00	-17.05
2483.50	Peak	52.89	-2.83	50.06	74.00	-23.94
2490.25	Average	40.03	-2.78	37.25	54.00	-16.75
2490.25	Peak	52.98	-2.78	50.20	74.00	-23.80

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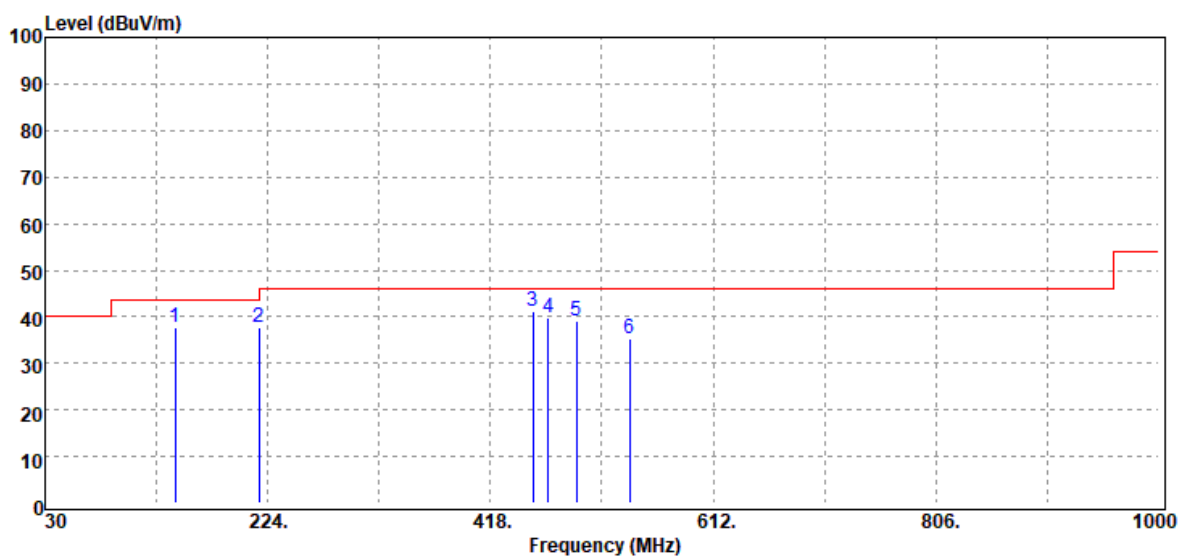
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Radiated Spurious Emission Measurement Result For Frequency from 30MHz to 1000MHz

Project Number : T190702W02
Operation Band : BLE 1M
Fundamental Frequency : 2442 MHz
Operation Mode : TX CH MID
EUT Pol. : E2 Plan

Test Date : 2019-07-20
Temp./Humi. : 23.8/46
Engineer : Kailin
Measurement Antenna Pol. : VERTICAL



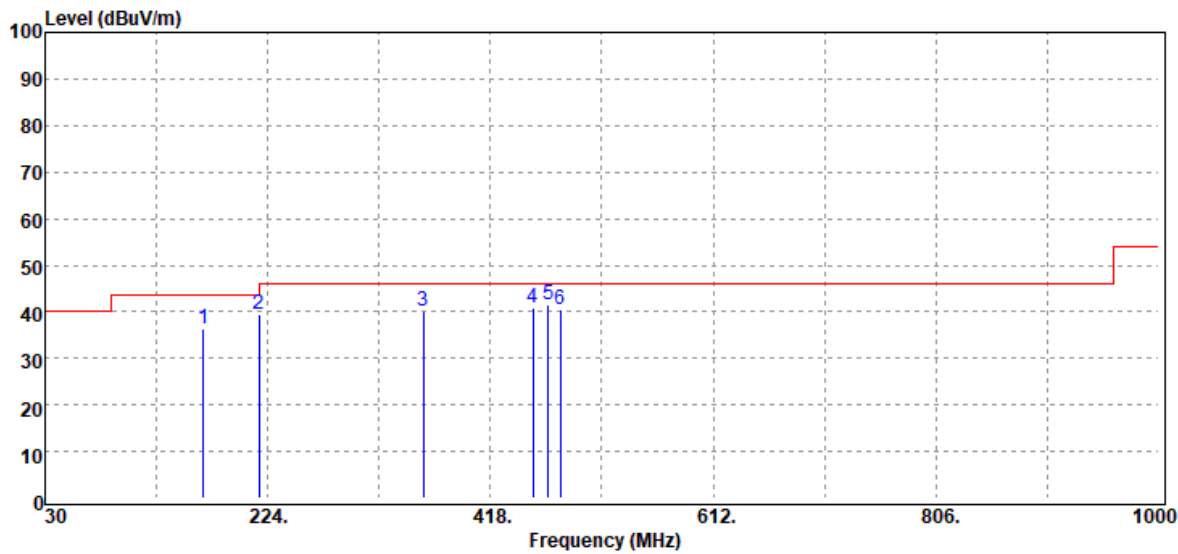
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
143.49	Peak	47.72	-9.86	37.86	43.50	-5.64
216.24	Peak	49.28	-11.45	37.83	46.00	-8.17
454.86	Peak	45.01	-3.79	41.22	46.00	-4.78
468.44	QP	43.17	-3.44	39.73	46.00	-6.27
492.69	Peak	42.09	-2.97	39.12	46.00	-6.88
539.25	Peak	37.48	-2.25	35.23	46.00	-10.77

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Project Number	:T190702W02	Test Date	:2019-07-20
Operation Band	:BLE 1M	Temp./Humi.	:23.8/46
Fundamental Frequency	:2442 MHz	Engineer	:Kailin
Operation Mode	:TX CH MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
167.74	QP	46.95	-10.56	36.39	43.50	-7.11
216.24	Peak	50.89	-11.45	39.44	46.00	-6.56
359.80	Peak	46.71	-6.59	40.12	46.00	-5.88
454.86	Peak	44.66	-3.79	40.87	46.00	-5.13
468.44	Peak	45.11	-3.44	41.67	46.00	-4.33
479.11	Peak	43.42	-2.98	40.44	46.00	-5.56

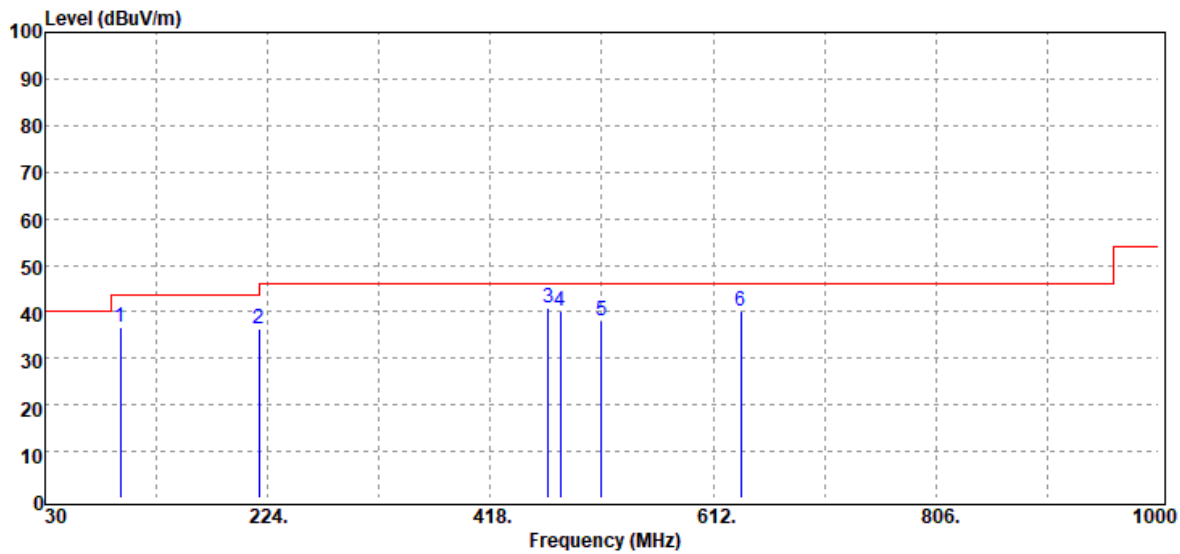
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Project Number :T190702W02
Operation Band :BLE 2M
Fundamental Frequency :2442 MHz
Operation Mode :TX CH MID
EUT Pol. :E2 Plan

Test Date :2019-07-20
Temp./Humi. :23.9/46
Engineer :Kailin
Measurement Antenna Pol. :VERTICAL



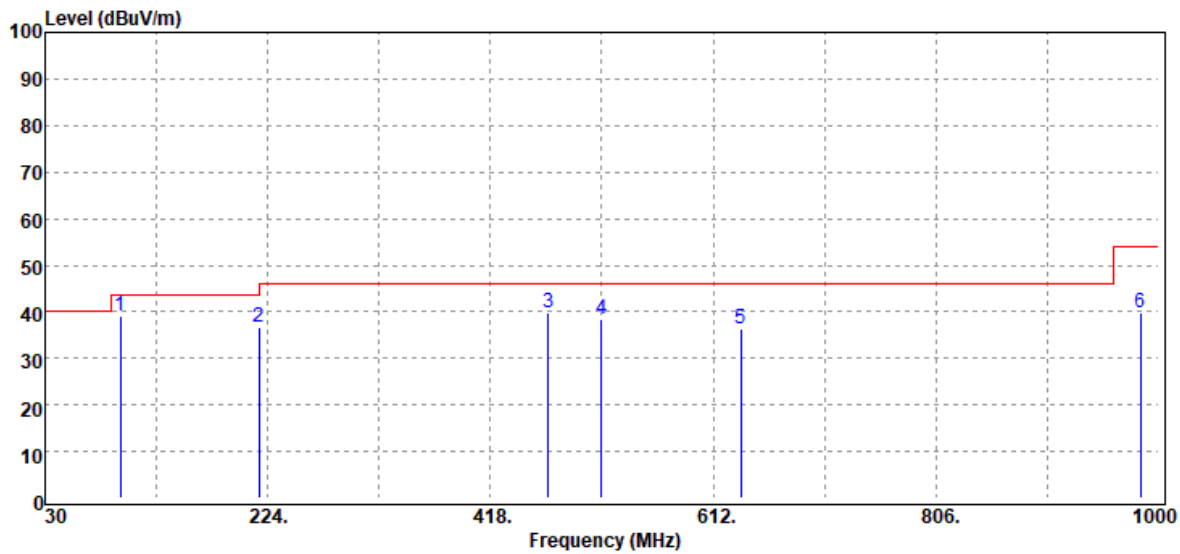
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
95.96	Peak	50.48	-13.95	36.53	43.50	-6.97
216.24	Peak	47.95	-11.45	36.50	46.00	-9.50
468.44	Peak	44.12	-3.44	40.68	46.00	-5.32
479.11	Peak	43.12	-2.98	40.14	46.00	-5.86
515.00	Peak	40.81	-2.67	38.14	46.00	-7.86
636.25	Peak	40.34	-0.30	40.04	46.00	-5.96

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Project Number	:T190702W02	Test Date	:2019-07-20
Operation Band	:BLE 2M	Temp./Humi.	:23.9/46
Fundamental Frequency	:2442 MHz	Engineer	:Kailin
Operation Mode	:TX CH MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
95.96	QP	53.17	-13.95	39.22	43.50	-4.28
216.24	Peak	48.27	-11.45	36.82	46.00	-9.18
468.44	Peak	43.14	-3.44	39.70	46.00	-6.30
515.00	Peak	41.15	-2.67	38.48	46.00	-7.52
636.25	Peak	36.52	-0.30	36.22	46.00	-9.78
984.48	Peak	34.48	5.37	39.85	54.00	-14.15

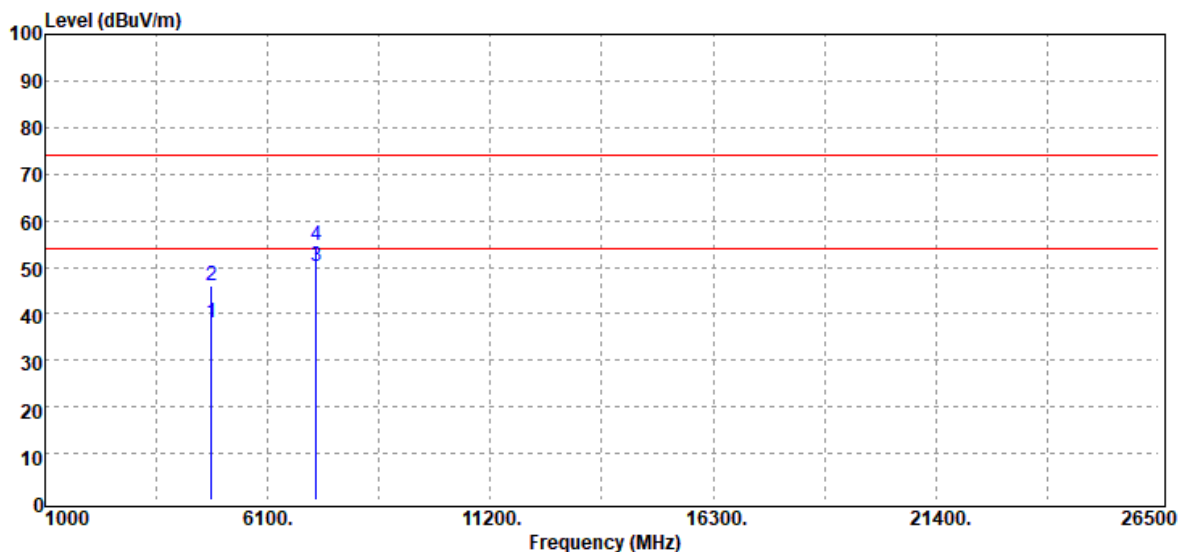
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Radiated Spurious Emission Measurement Result For Frequency above 1GHz

Project Number	:T190702W02	Test Date	:2019-07-19
Operation Band	:BLE 1M	Temp./Humi.	:23.8/46
Fundamental Frequency	:2402 MHz	Engineer	:Kailin
Operation Mode	:TX CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



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	35.15	2.84	37.99	54.00	-16.01
4804.00	Peak	43.25	2.84	46.09	74.00	-27.91
7206.00	Average	39.49	10.61	50.10	54.00	-3.90
7206.00	Peak	44.16	10.61	54.77	74.00	-19.23

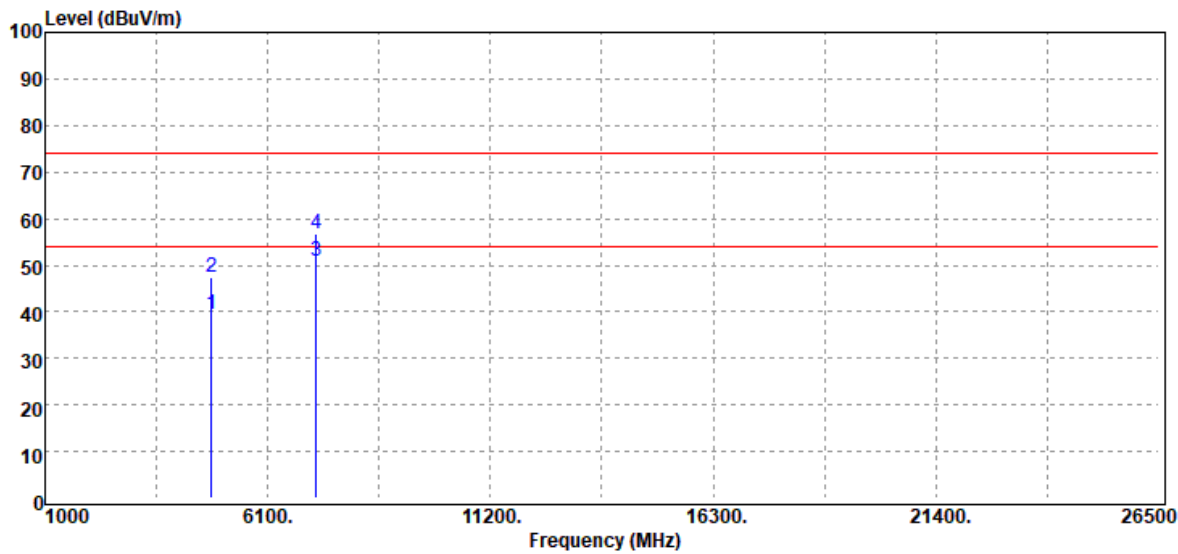
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Project Number :T190702W02
Operation Band :BLE 1M
Fundamental Frequency :2402 MHz
Operation Mode :TX CH LOW
EUT Pol. :E2 Plan

Test Date :2019-07-19
Temp./Humi. :23.8/46
Engineer :Kailin
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	36.48	2.84	39.32	54.00	-14.68
4804.00	Peak	44.50	2.84	47.34	74.00	-26.66
7206.00	Average	40.26	10.61	50.87	54.00	-3.13
7206.00	Peak	46.26	10.61	56.87	74.00	-17.13

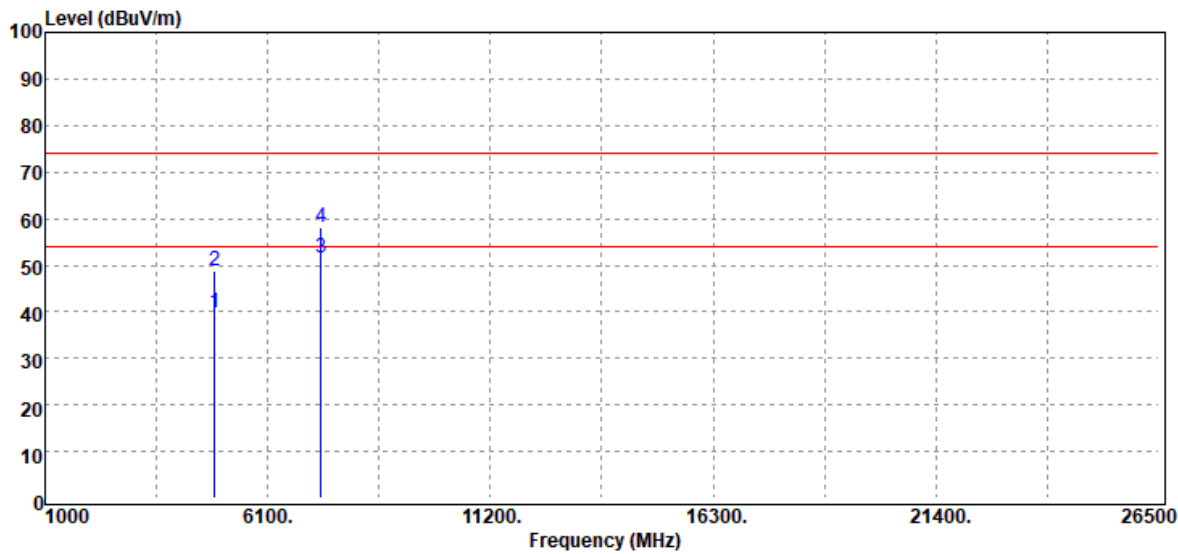
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Project Number :T190702W02
Operation Band :BLE 1M
Fundamental Frequency :2442 MHz
Operation Mode :TX CH MID
EUT Pol. :E2 Plan

Test Date :2019-07-19
Temp./Humi. :23.8/46
Engineer :Kailin
Measurement Antenna Pol. :VERTICAL



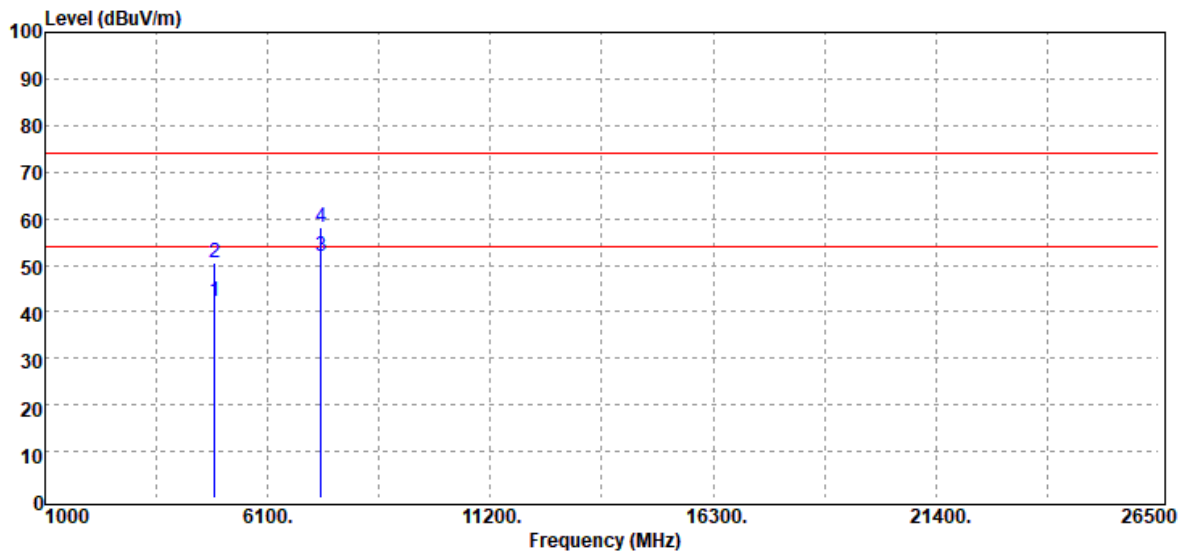
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	36.76	3.05	39.81	54.00	-14.19
4884.00	Peak	45.78	3.05	48.83	74.00	-25.17
7326.00	Average	40.97	10.74	51.71	54.00	-2.29
7326.00	Peak	47.53	10.74	58.27	74.00	-15.73

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Project Number	:T190702W02	Test Date	:2019-07-19
Operation Band	:BLE 1M	Temp./Humi.	:23.8/46
Fundamental Frequency	:2442 MHz	Engineer	:Kailin
Operation Mode	:TX CH MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	39.13	3.05	42.18	54.00	-11.82
4884.00	Peak	47.32	3.05	50.37	74.00	-23.63
7326.00	Average	41.26	10.74	52.00	54.00	-2.00
7326.00	Peak	47.40	10.74	58.14	74.00	-15.86

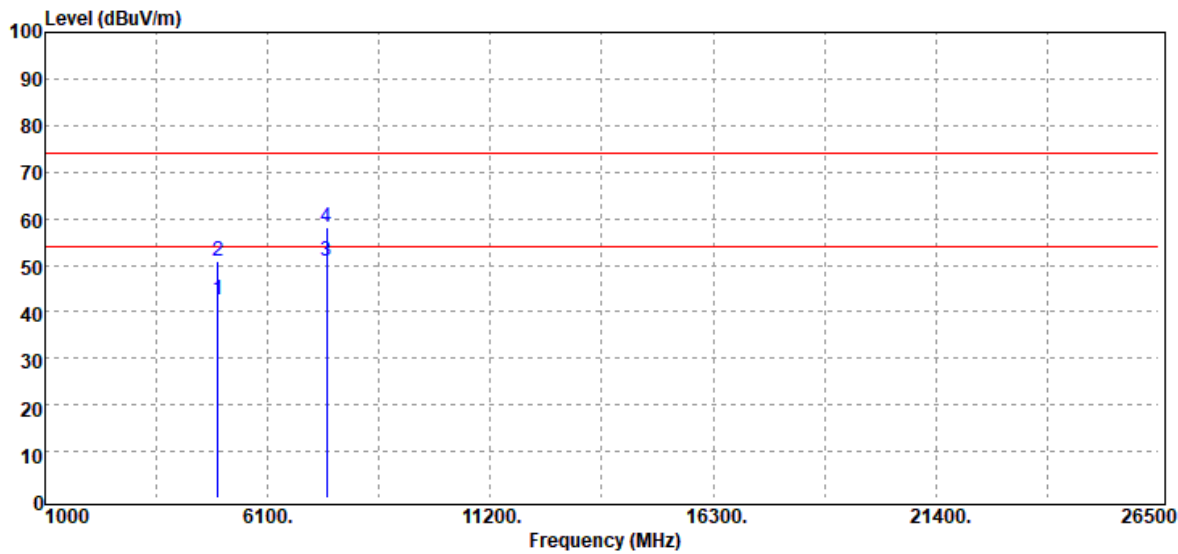
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Project Number :T190702W02
Operation Band :BLE 1M
Fundamental Frequency :2480 MHz
Operation Mode :TX CH HIGH
EUT Pol. :E2 Plan

Test Date :2019-07-19
Temp./Humi. :23.8/46
Engineer :Kailin
Measurement Antenna Pol. :VERTICAL



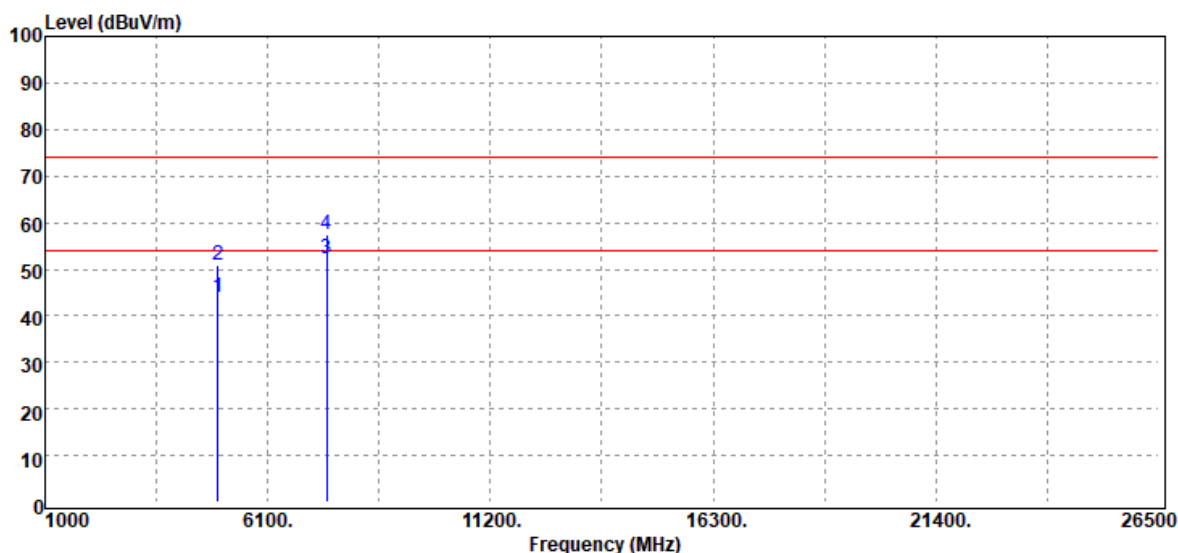
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	38.77	3.85	42.62	54.00	-11.38
4960.00	Peak	46.98	3.85	50.83	74.00	-23.17
7440.00	Average	40.26	10.54	50.80	54.00	-3.20
7440.00	Peak	47.57	10.54	58.11	74.00	-15.89

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Project Number	:T190702W02	Test Date	:2019-07-19
Operation Band	:BLE 1M	Temp./Humi.	:23.8/46
Fundamental Frequency	:2480 MHz	Engineer	:Kailin
Operation Mode	:TX CH HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



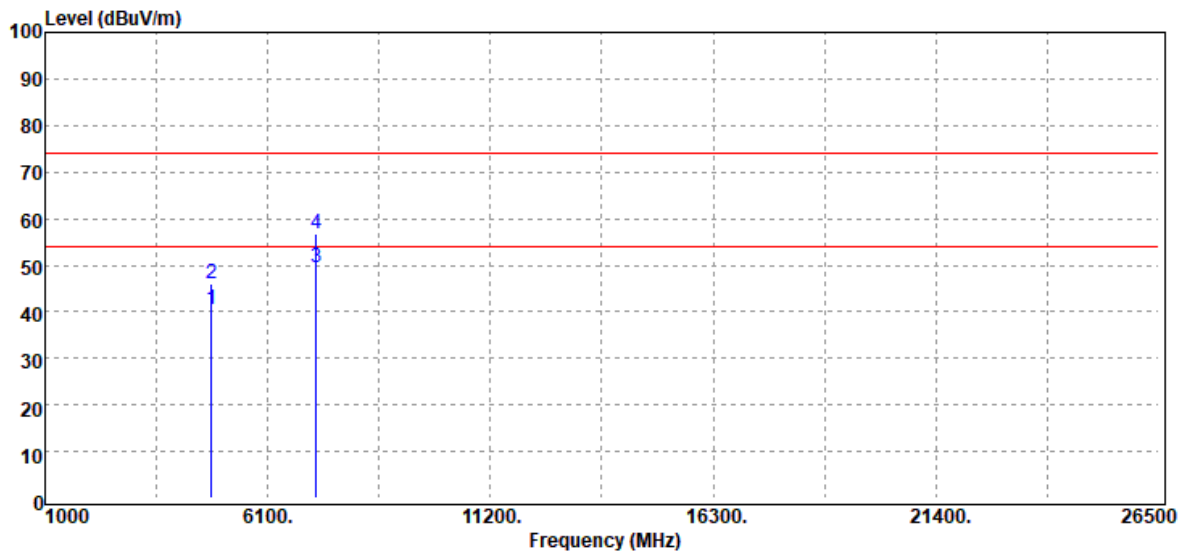
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	40.16	3.85	44.01	54.00	-9.99
4960.00	Peak	46.99	3.85	50.84	74.00	-23.16
7440.00	Average	41.78	10.54	52.32	54.00	-1.68
7440.00	Peak	46.85	10.54	57.39	74.00	-16.61

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Project Number	:T190702W02	Test Date	:2019-07-19
Operation Band	:BLE 2M	Temp./Humi.	:23.9/47
Fundamental Frequency	:2402 MHz	Engineer	:Kailin
Operation Mode	:TX CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



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	37.48	2.84	40.32	54.00	-13.68
4804.00	Peak	43.22	2.84	46.06	74.00	-27.94
7206.00	Average	38.99	10.61	49.60	54.00	-4.40
7206.00	Peak	46.26	10.61	56.87	74.00	-17.13

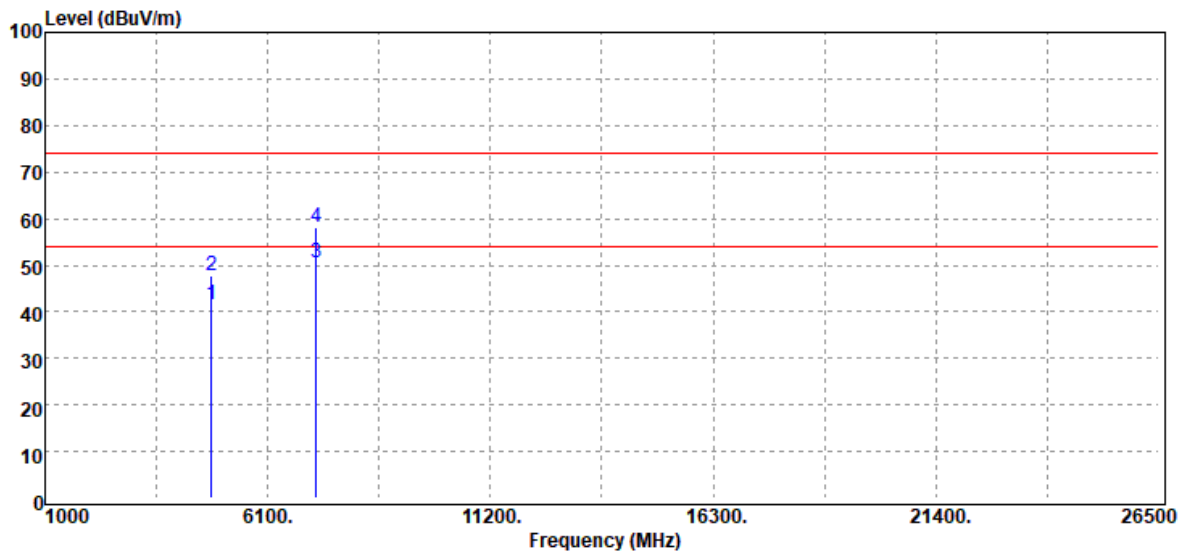
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Project Number :T190702W02
Operation Band :BLE 2M
Fundamental Frequency :2402 MHz
Operation Mode :TX CH LOW
EUT Pol. :E2 Plan

Test Date :2019-07-19
Temp./Humi. :23.9/47
Engineer :Kailin
Measurement Antenna Pol. :HORIZONTAL



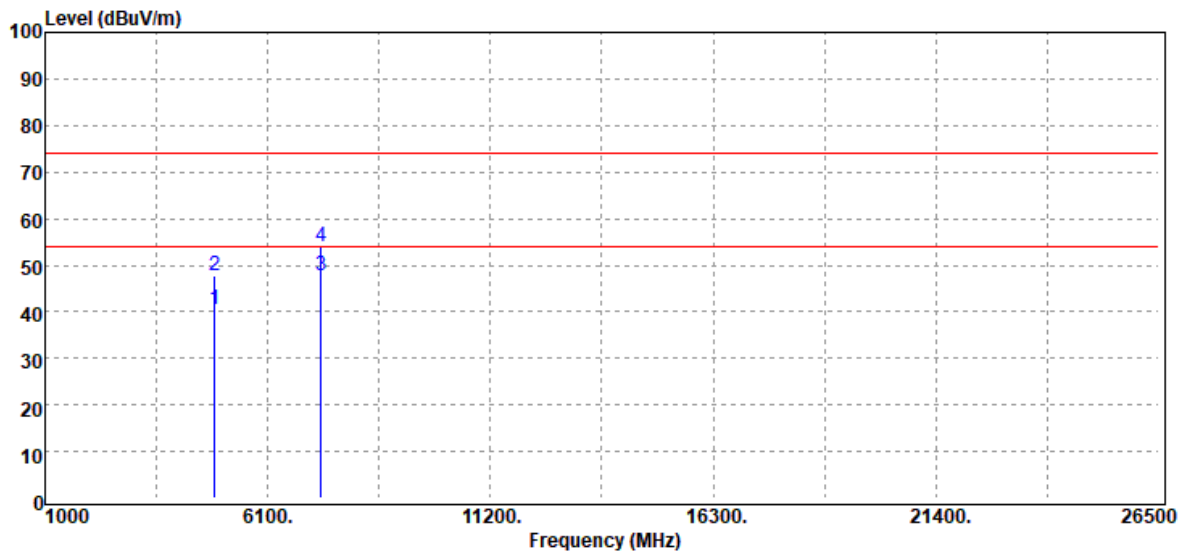
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	38.78	2.84	41.62	54.00	-12.38
4804.00	Peak	44.97	2.84	47.81	74.00	-26.19
7206.00	Average	40.03	10.61	50.64	54.00	-3.36
7206.00	Peak	47.38	10.61	57.99	74.00	-16.01

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Project Number	:T190702W02	Test Date	:2019-07-19
Operation Band	:BLE 2M	Temp./Humi.	:23.9/47
Fundamental Frequency	:2442 MHz	Engineer	:Kailin
Operation Mode	:TX CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



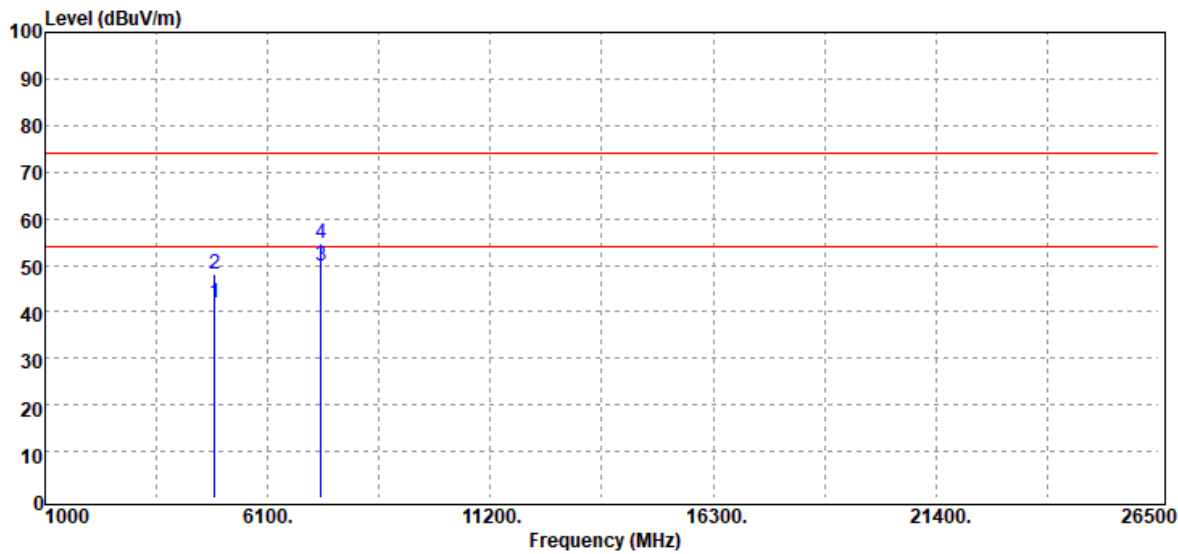
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	37.55	3.05	40.60	54.00	-13.40
4884.00	Peak	44.72	3.05	47.77	74.00	-26.23
7326.00	Average	37.00	10.74	47.74	54.00	-6.26
7326.00	Peak	43.24	10.74	53.98	74.00	-20.02

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Project Number	:T190702W02	Test Date	:2019-07-19
Operation Band	:BLE 2M	Temp./Humi.	:23.9/47
Fundamental Frequency	:2442 MHz	Engineer	:Kailin
Operation Mode	:TX CH MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



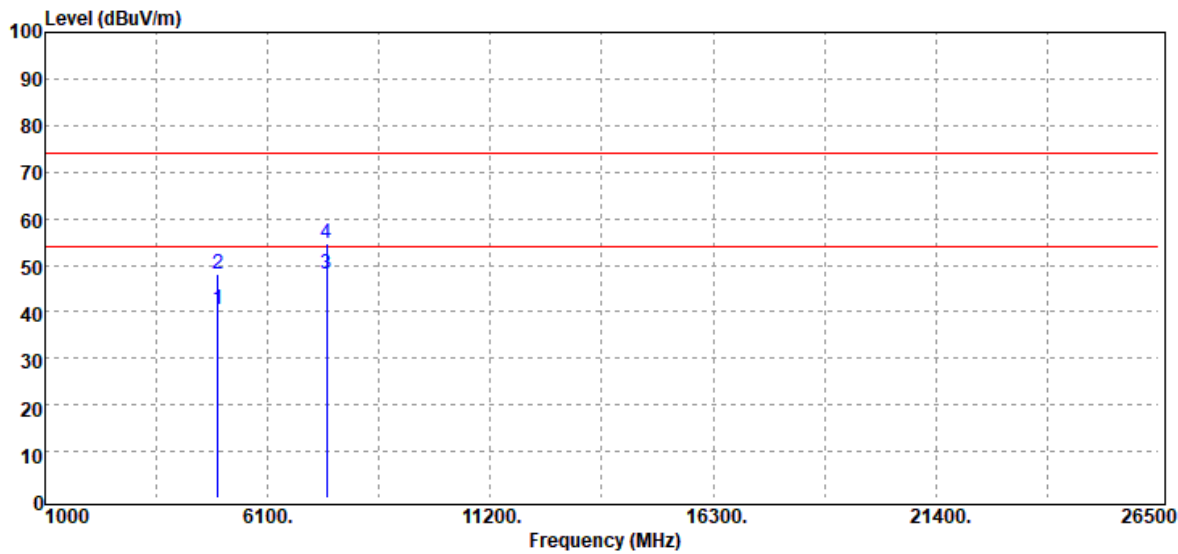
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	38.92	3.05	41.97	54.00	-12.03
4884.00	Peak	44.95	3.05	48.00	74.00	-26.00
7326.00	Average	39.16	10.74	49.90	54.00	-4.10
7326.00	Peak	44.05	10.74	54.79	74.00	-19.21

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Project Number	:T190702W02	Test Date	:2019-07-19
Operation Band	:BLE 2M	Temp./Humi.	:23.9/47
Fundamental Frequency	:2480 MHz	Engineer	:Kailin
Operation Mode	:TX CH HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



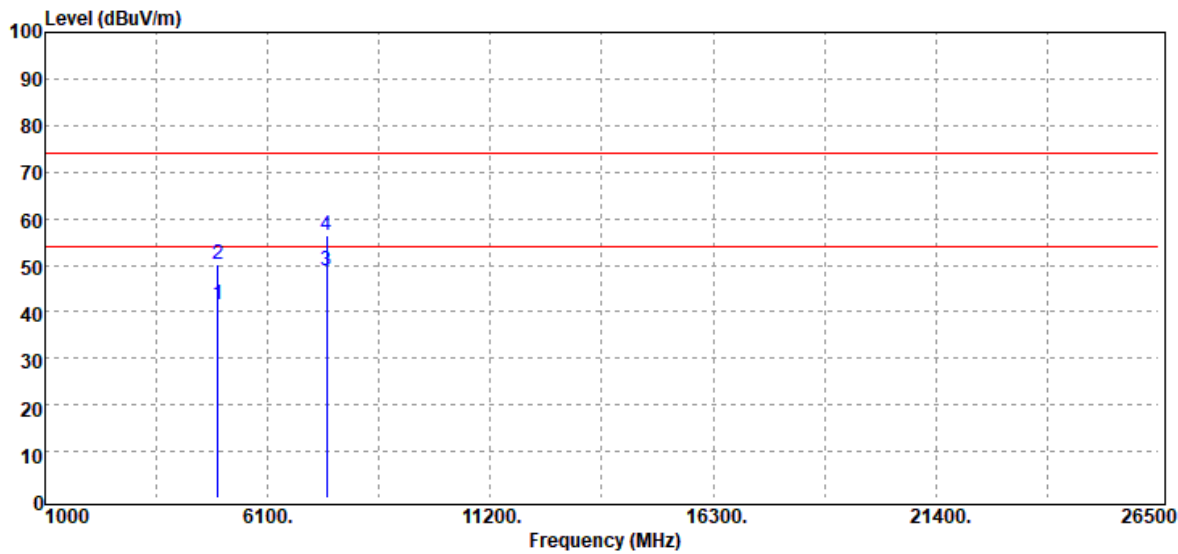
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	36.79	3.85	40.64	54.00	-13.36
4960.00	Peak	44.26	3.85	48.11	74.00	-25.89
7440.00	Average	37.49	10.54	48.03	54.00	-5.97
7440.00	Peak	44.26	10.54	54.80	74.00	-19.20

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Project Number	:T190702W02	Test Date	:2019-07-20
Operation Band	:BLE 2M	Temp./Humi.	:23.9/47
Fundamental Frequency	:2480 MHz	Engineer	:Kailin
Operation Mode	:TX CH HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	37.65	3.85	41.50	54.00	-12.50
4960.00	Peak	46.44	3.85	50.29	74.00	-23.71
7440.00	Average	38.26	10.54	48.80	54.00	-5.20
7440.00	Peak	46.03	10.54	56.57	74.00	-17.43

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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.
DC Block	PASTERNAK	PE8210	RF256	02/26/2019	02/25/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019

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. 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

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2402	-11.98	8	PASS
2442	-12.05	8	PASS
2480	-12.15	8	PASS

NOTE: cable loss as 0.5dB that offsets in the spectrum

BLE 2M mode

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2402	-14.32	8	PASS
2442	-14.30	8	PASS
2480	-14.40	8	PASS

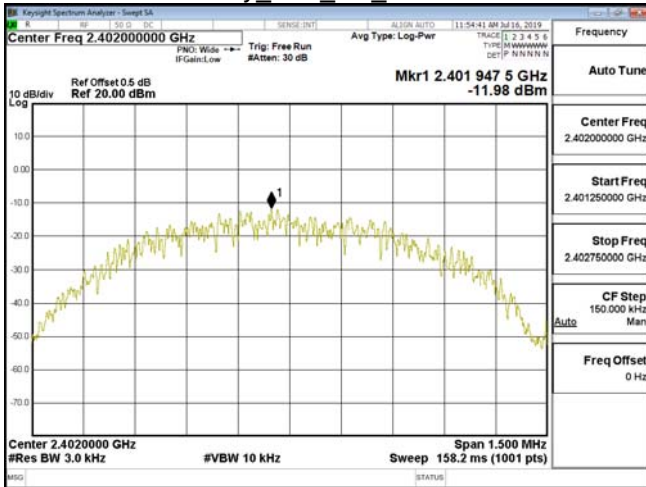
NOTE: cable loss as 0.5dB that offsets in the spectrum

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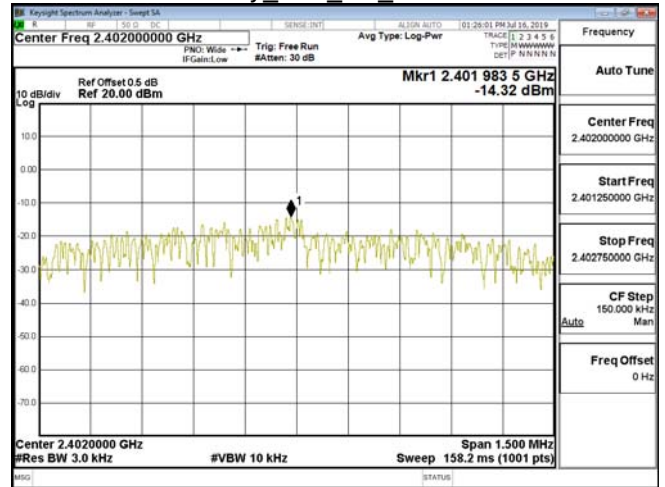
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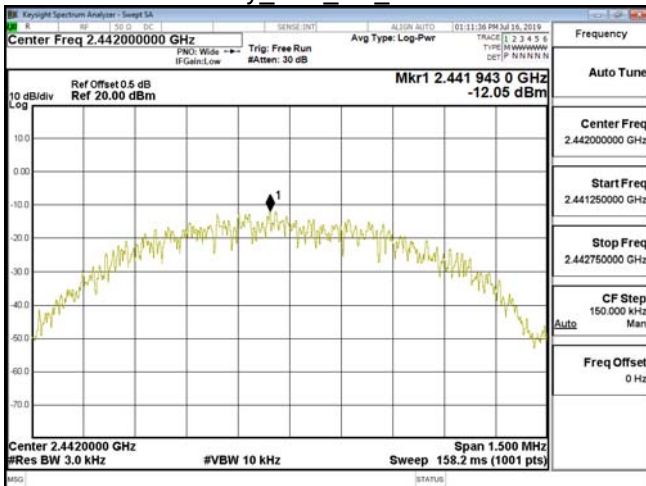
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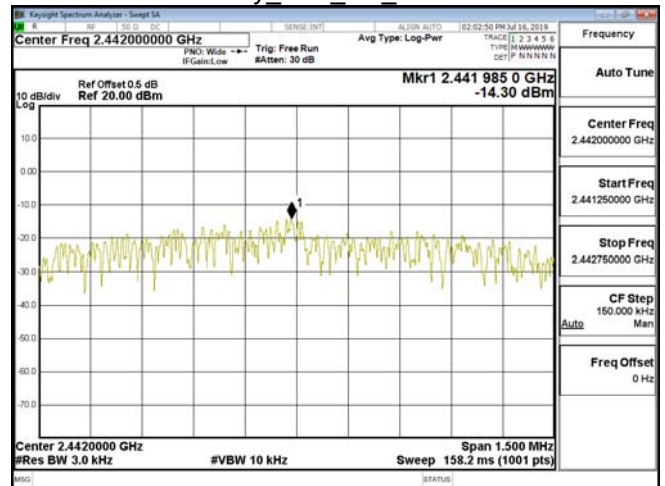
Power Density_BLE_2M_LowCH00-2402



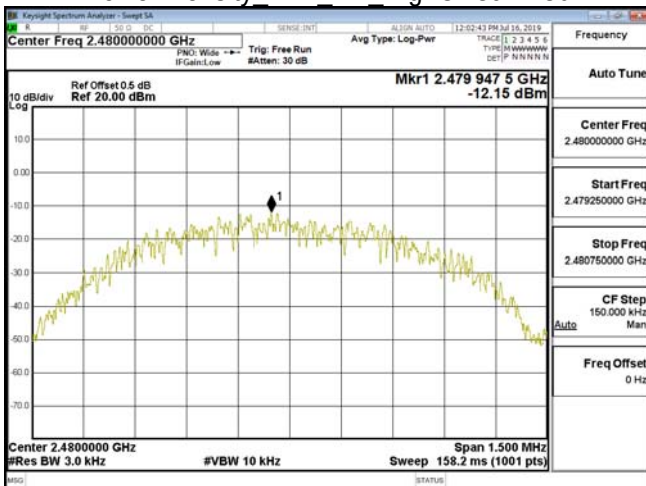
Power Density_BLE_1M_MidCH19-2442



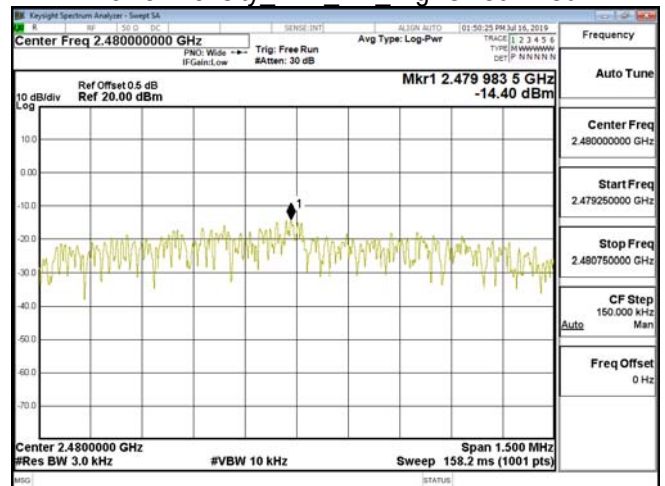
Power Density_BLE_2M_MidCH19-2442



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.

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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