

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Applicant: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City 33377,
Taiwan

Product Name: Clover Flex

Brand Name: clover

Model No.: C403

Model Difference: N/A

FCC ID: HFS-C403U

IC: 1787B-C403U

Report Number: T190816W02-RP5

FCC Rule Part: §15.247, Cat: DSS

IC Rule Part: RSS-247 issue 2 Feb 2017

Issue Date: Sep. 09, 2019

Date of Test: Aug. 16, 2019 ~ Aug. 23, 2019

Date of EUT Received: Aug. 16, 2019

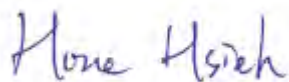
Issued by Compliance Certification Services Inc. Wugu Lab.
No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan.
(R.O.C.)
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The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

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

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
T190816W02-RP5	Rev.00	Initial creation of document	All	Aug. 30, 2019	Elle Chang
T190816W02-RP5	Rev.01	Update the information	8,17	Sep. 09, 2019	Elle Chang

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	Clover Flex	
Brand Name:	clover	
Model No.:	C403	
Model Difference:	N/A	
Product SW/HW version:	N/A / N/A	
Radio SW/HW version:	N/A / N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Micro Hub:	Model No.: H400, Supplier: clover	
Docking:	Model No.: K400, Supplier: clover	
Power Supply:	7.6V from Li-ion Polymer rechargeable battery or 12V from Adapter	
	Battery:	Model No.: CA355772HV_POS5, Supplier: CosMX Battery Co., Ltd.
	Adapter:	Model No.: FSP040-RHBN3, Supplier: FSP

Bluetooth_BR+EDR:

Bluetooth Version:	Bluetooth V5.0 Dual Mode
Channel number:	79 channels
Modulation type:	GFSK + $\pi/4$ DQPSK + 8DPSK
Transmit Power:	6.83 dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	$\leq 0.4s$
Antenna Designation:	PIFA Antenna, Peak Gain: -1.47dBi P/N: DQ60AYF0002, Supplier: SAA

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1.2 Test Methodology of Applied Standards

Canada RSS-247 issue 2 Feb. 2017

RSS-Gen. issue 5 Apr. 2018

FCC Part 15, Subpart C §15.247

ANSI C63.10:2013

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

1.3 Test Facility

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,
Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

Canada Registration Number: 2324G

1.4 Special Accessories

There is no special accessory 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 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 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. 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 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 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 Radiated Emission Configuration



Fig. 2-2 Conducted Emission Configuration

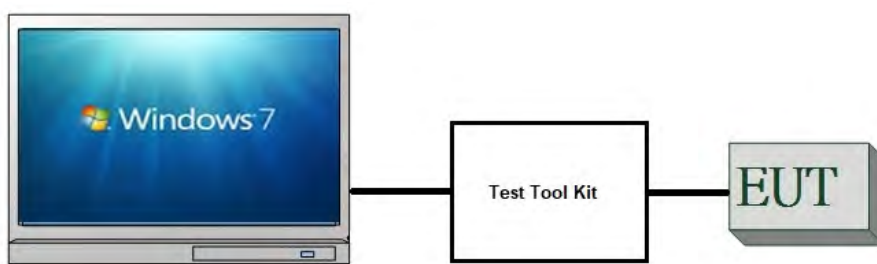


Fig.2-3 Conduction (AC Power Line) Configuration

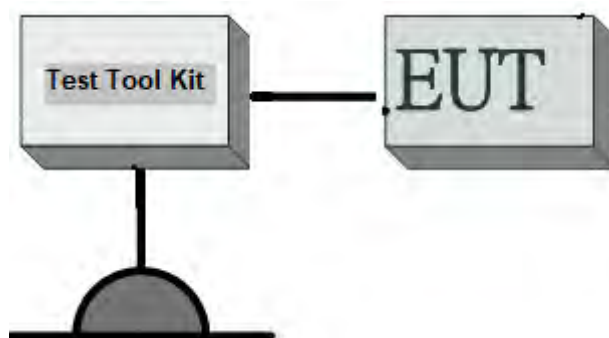


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A
2	Notebook	Lenovo	T420	S0012483	Shielded	Unshielded
3	Test Tool Kit	N/A	N/A	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b)(1)	RSS-247 §5.4 (2)	Peak Output Power	Compliant
§15.247(a)(1)	RSS-247 §5.1 (1) RSS-Gen §6.7	20dB & 99% 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(a)(1)	RSS-247 §5.1 (2)	Frequency Separation	Compliant
§15.247(a)(1)(iii)	RSS-247 §5.1 (4)	Number of hopping frequency	Compliant
§15.247(a)(1)(iii)	RSS-247 §5.1 (4)	Time of Occupancy	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

79 channels are provided for Bluetooth

ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
1	2402 MHz	21	2422 MHz	41	2442 MHz	71	2462 MHz
2	2403 MHz	22	2423 MHz	42	2443 MHz	72	2463 MHz
3	2404 MHz	23	2424 MHz	43	2444 MHz	73	2464 MHz
4	2405 MHz	24	2425 MHz	44	2445 MHz	74	2465 MHz
5	2406 MHz	25	2426 MHz	45	2446 MHz	75	2466 MHz
6	2407 MHz	26	2427 MHz	46	2447 MHz	76	2467 MHz
7	2408 MHz	27	2428 MHz	47	2448 MHz	77	2468 MHz
8	2409 MHz	28	2429 MHz	48	2449 MHz	78	2469 MHz
9	2410 MHz	29	2430 MHz	49	2450 MHz	79	2470 MHz
10	2411 MHz	30	2431 MHz	50	2451 MHz	70	2471 MHz
11	2412 MHz	31	2432 MHz	51	2452 MHz	71	2472 MHz
12	2413 MHz	32	2433 MHz	52	2453 MHz	72	2473 MHz
13	2414 MHz	33	2434 MHz	53	2454 MHz	73	2474 MHz
14	2415 MHz	34	2435 MHz	54	2455 MHz	74	2475 MHz
15	2416 MHz	35	2436 MHz	55	2456 MHz	75	2476 MHz
16	2417 MHz	36	2437 MHz	56	2457 MHz	76	2477 MHz
17	2418 MHz	37	2438 MHz	57	2458 MHz	77	2478 MHz
18	2419 MHz	38	2439 MHz	58	2459 MHz	78	2479 MHz
19	2420 MHz	39	2440 MHz	59	2460 MHz	79	2480 MHz
20	2421 MHz	40	2441 MHz	60	2461 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.

AC POWER LINE CONDUCTED EMISSION TEST:

Test Condition	AC Power line conducted emission for line and neutral
Worst Case	Operation in normal mode

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	PACKET TYPE
Bluetooth	2402 to 2480	2441	GFSK	DH5
RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth	2402 to 2480	2402, 2441, 2480	GFSK	DH5

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 BR+EDR Transmitter for channel Low, Mid and High, the worst case H position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST				
Peak Output Power, 20dB Band Width				
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	PACKET TYPE
Bluetooth	2402 to 2480	2402, 2441, 2480	GFSK, $\pi/4$ -DQPSK, 8DPSK	DH5/2DH5/3DH5
Band Edge				
Bluetooth	2402 to 2480	2402, 2441, 2480	GFSK, 8DPSK	DH5/3DH5
Frequency Separation				
Bluetooth	2402 to 2480	2402, 2441, 2480	GFSK	DH5
Number of hopping frequency				
Bluetooth	2402 to 2480	2402, 2441, 2480	GFSK	DH5
Time of Occupancy (Dwell time)				
Bluetooth	2402 to 2480	2402, 2441, 2480	GFSK	DH1/DH3/DH5
Bluetooth	2402 to 2480	2441	$\pi/4$ -DQPSK, 8DPSK	2DH1/2DH3/2DH5 3DH1/3DH3/3DH5

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5 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575 dB
Peak Output Power	+/- 1.924 dB
20dB Bandwidth	+/- 147.256 Hz
100 kHz Bandwidth of Frequency Band Edges	+/- 1.924 dB
Frequency Separation	+/- 147.256 Hz
Number of hopping frequency	+/- 147.256 Hz
Time of Occupancy	+/- 147.256 Hz
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12 dB
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68 dB
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18 dB
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47 dB
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81 dB
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87 dB

Note:

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

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency within 150 kHz 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.
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	SCHWARZBECK	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

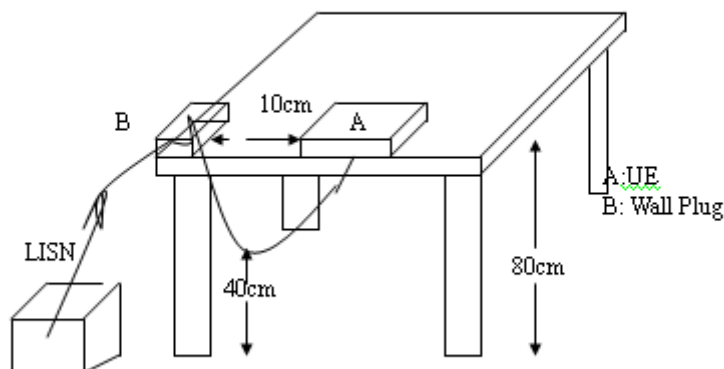
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plan.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

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

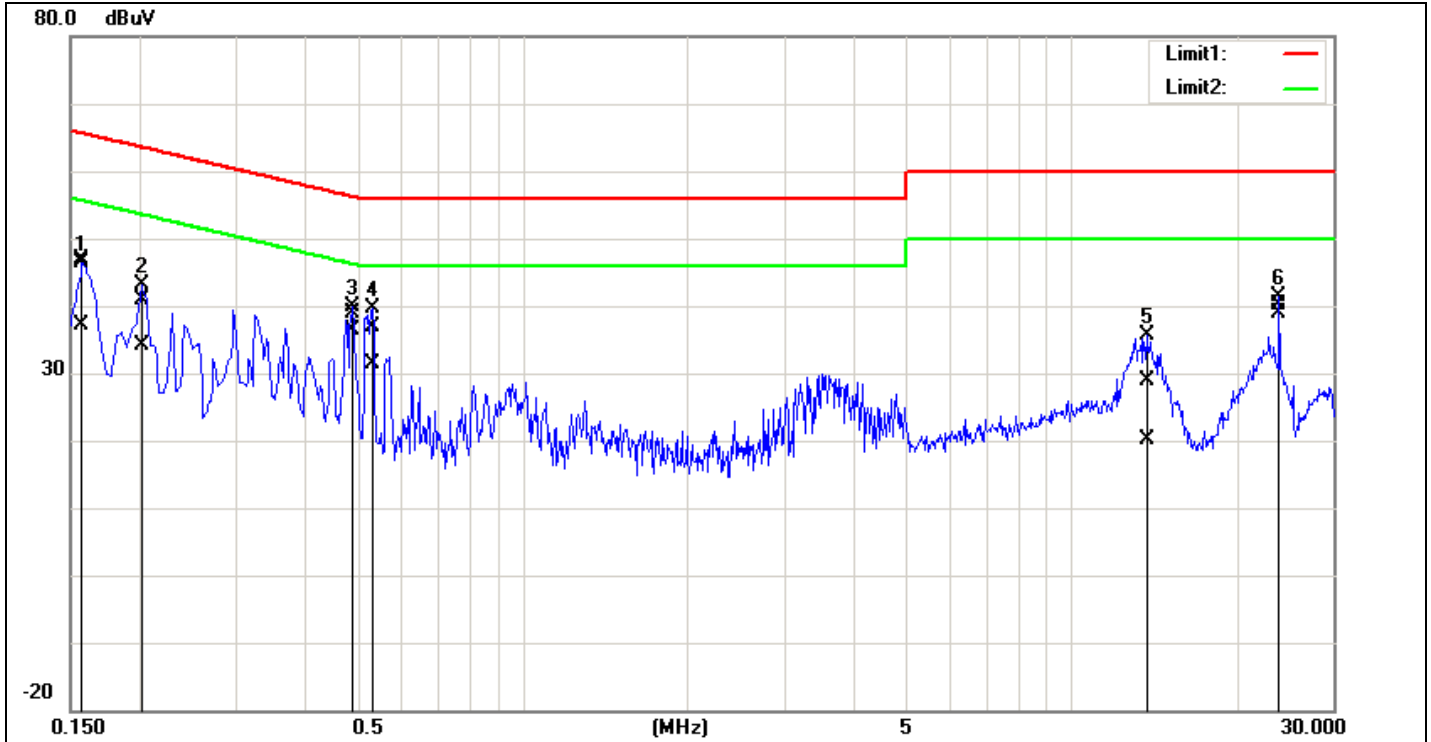
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Description:	Operation	Date:	2019/8/23
Line:	L1	Temp.(°C)/Hum.(%):	25.3(°C)/65%
Test Voltage:	AC 120V/60Hz	Test By:	Henry
Job No.:	T190816W02		



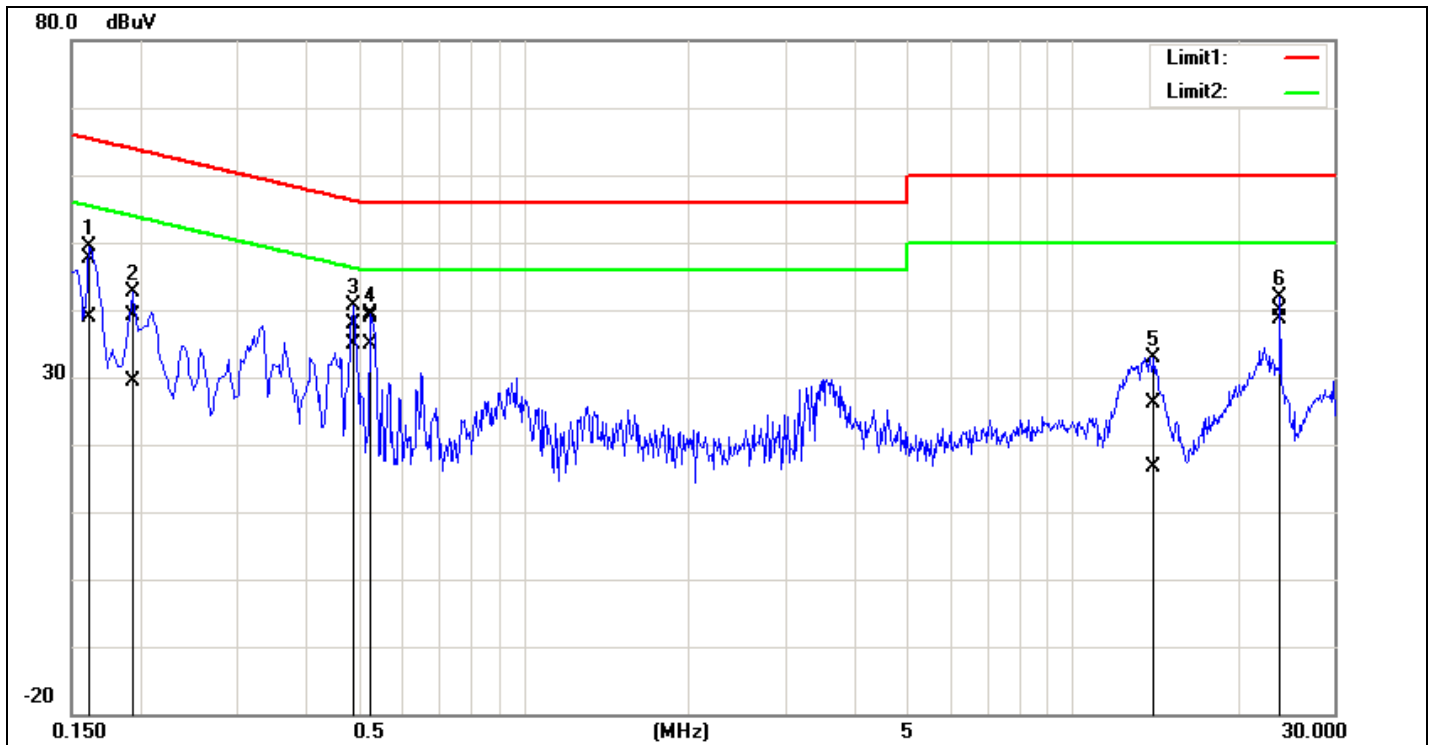
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1580	36.66	26.98	10.14	46.80	37.12	65.56	55.57	-18.76	-18.45	Pass
2	0.2020	30.87	24.06	10.13	41.00	34.19	63.52	53.53	-22.52	-19.34	Pass
3*	0.4900	28.72	26.23	10.14	38.86	36.37	56.17	46.17	-17.31	-9.80	Pass
4	0.5340	26.84	21.35	10.14	36.98	31.49	56.00	46.00	-19.02	-14.51	Pass
5	13.7220	18.52	9.83	10.36	28.88	20.19	60.00	50.00	-31.12	-29.81	Pass
6	23.9260	29.76	28.49	10.28	40.04	38.77	60.00	50.00	-19.96	-11.23	Pass

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Description:	Operation	Date:	2019/8/23
Line:	N	Temp.(°C)/Hum.(%):	25.3(°C)/65%
Test Voltage:	AC 120V/60Hz	Test By:	Henry
Job No.:	T190816W02		



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1620	37.63	28.97	10.02	47.65	38.99	65.36	55.36	-17.71	-16.37	Pass
2	0.1940	29.16	19.40	10.02	39.18	29.42	63.86	53.86	-24.68	-24.44	Pass
3	0.4900	27.79	24.84	10.03	37.82	34.87	56.17	46.17	-18.35	-11.30	Pass
4*	0.5265	28.73	24.78	10.03	38.76	34.81	56.00	46.00	-17.24	-11.19	Pass
5	14.0900	15.91	6.33	10.25	26.16	16.58	60.00	50.00	-33.84	-33.42	Pass
6	23.9260	29.51	28.36	10.36	39.87	38.72	60.00	50.00	-20.13	-11.28	Pass

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7 PEAK OUTPUT POWER MEASUREMENT

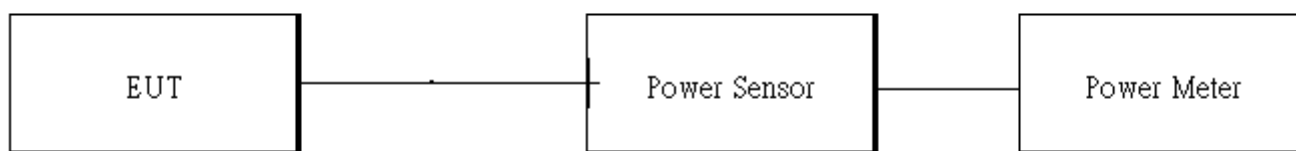
7.1 Standard Applicable

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts and the e.i.r.p. shall not exceed 0.5 W if the hop set uses less than 75 hopping channels.

7.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1242004	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207365	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207368	10/24/2018	10/23/2019
DC Block	PASTERNAK	PE8210	RF256	02/26/2019	02/25/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019

7.3 Test Set-up:



7.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013. Measurement Guidelines.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth)
4. Record the max. reading.
5. Repeat above procedures until all default test channel is completed.

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7.5 Measurement Result

1M BR mode (Peak):

CH	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	6.01	3.990	1000
Mid	2441	5.54	3.581	1000
High	2480	6.83	4.819	1000

1M BR mode (Average):

CH	Freq. (MHz)	Max. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	5.56	3.601	1000
Mid	2441	5.53	3.576	1000
High	2480	6.50	4.471	1000

2M EDR mode (Peak):

CH	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	5.19	3.304	125
Mid	2441	4.71	2.958	125
High	2480	6.01	3.990	125

2M EDR mode (Average):

CH	Freq. (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	2.40	1.739	125
Mid	2441	1.98	1.579	125
High	2480	3.33	2.155	125

3M EDR mode (Peak):

CH	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	5.19	3.304	125
Mid	2441	5.11	3.243	125
High	2480	6.39	4.355	125

3M EDR mode (Average):

CH	Freq. (MHz)	Max. Avg. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	2.44	1.755	125
Mid	2441	1.91	1.554	125
High	2480	3.24	2.110	125

NOTE: cable loss as 12.6dB that offsets in the s

*Note: Max. Output include tune up tolerance Power measured by using average detector.

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1M BR mode EIRP

Channel	Frequency (MHz)	Max. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	5.56	-1.47	2.567	4000
Mid	2441	5.53	-1.47	2.549	4000
High	2480	6.50	-1.47	3.187	4000

2M EDR mode EIRP

Channel	Frequency (MHz)	Max. Avg. Output include tune up tolerance	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	2.40	-1.47	1.240	4000
Mid	2441	1.98	-1.47	1.126	4000
High	2480	3.33	-1.47	1.536	4000

3M EDR mode EIRP

Channel	Frequency (MHz)	Max. Avg. Output include tune up tolerance	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	2.44	-1.47	1.251	4000
Mid	2441	1.91	-1.47	1.108	4000
High	2480	3.24	-1.47	1.504	4000

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

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8 20dB & 99% BANDWIDTH MEASUREMENT

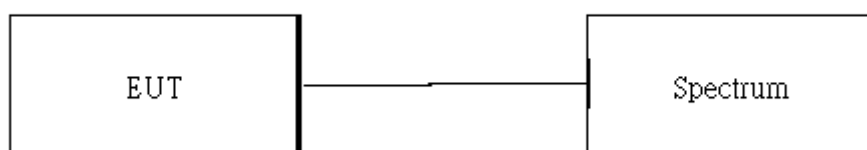
8.1 Standard Applicable

For frequency hopping systems operating in the 2400MHz-2483.5 MHz no limit for 20dB bandwidth.

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 ANSI C63.10:2013. Measurement Guidelines.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set the spectrum analyzer as RBW=10 kHz (1 % of 20 dB Bandwidth.), VBW = 30 kHz, Span= 3MHz, Sweep=auto, Detector = Peak, and Max hold for 20dB Bandwidth test.
5. Mark the peak frequency and -20dB (upper and lower) frequency
6. Turn on the 99% bandwidth function, max reading.
7. Repeat above procedures until all test default channel is completed

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8.5 Measurement Result

GFSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	0.8809	0.59
Mid	0.8815	0.59
High	0.8806	0.59

 $\pi/4$ -DQPSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.254	0.84
Mid	1.254	0.84
High	1.254	0.84

8-DPSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.252	0.83
Mid	1.252	0.83
High	1.252	0.83

GFSK

CH	99% Bandwidth (MHz)
Low	0.81673
Mid	0.8167
High	0.81773

 $\pi/4$ -DQPSK

CH	99% Bandwidth (MHz)
Low	1.1704
Mid	1.1697
High	1.1698

8-DPSK

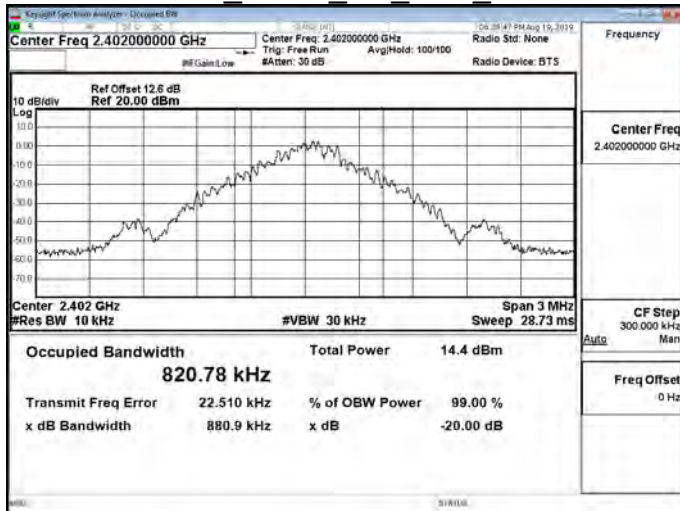
CH	99% Bandwidth (MHz)
Low	1.1694
Mid	1.1696
High	1.1712

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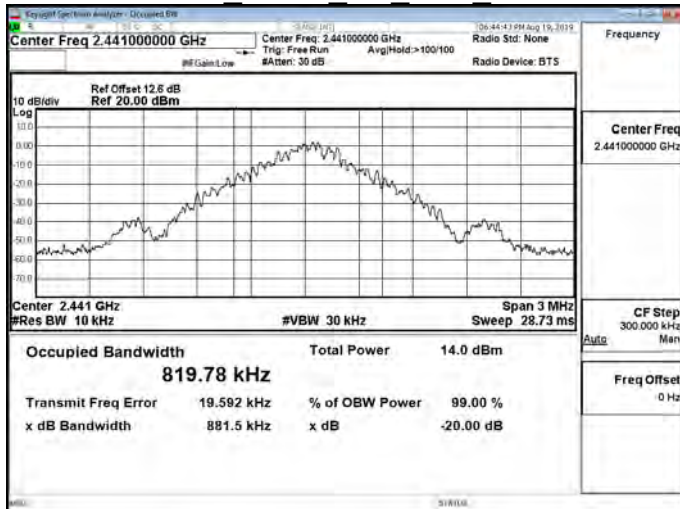
OBW 20dB GFSK 1M DH5 2402MHz



OBW 20dB $\pi/4$ DQPSK 2M 2402MHz



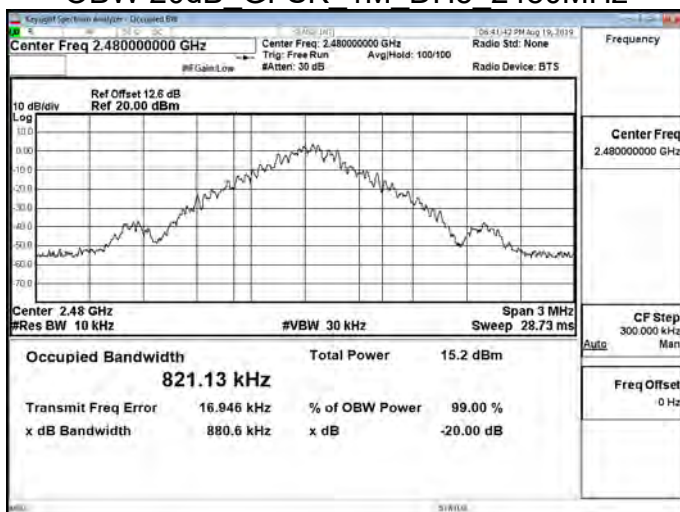
OBW 20dB GFSK 1M DH5 2441MHz



OBW 20dB $\pi/4$ DQPSK 2M 2441MHz



OBW 20dB GFSK 1M DH5 2480MHz



OBW 20dB $\pi/4$ DQPSK 2M 2480MHz

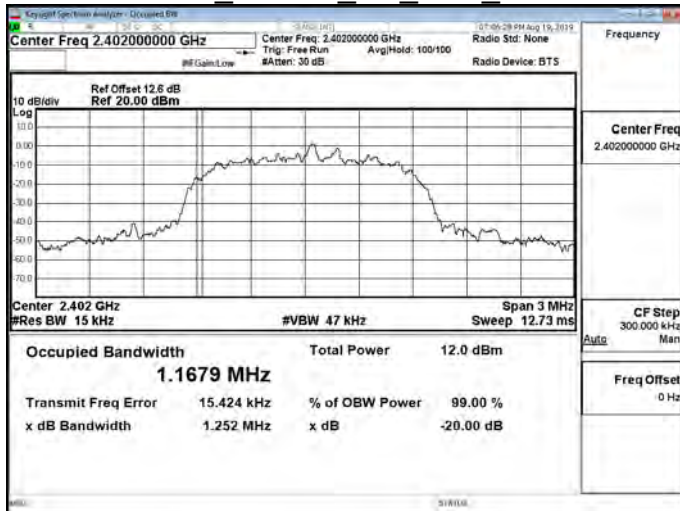


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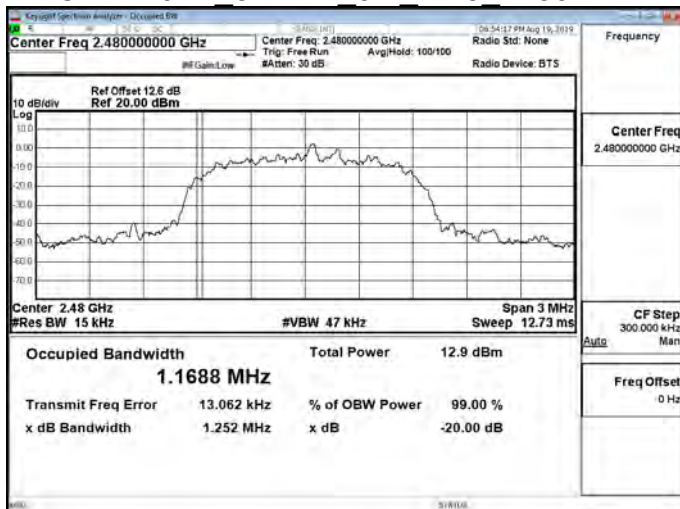
OBW 20dB 8DPSK 3M DH5 2402MHz



OBW 20dB 8DPSK 3M DH5 2441MHz



OBW 20dB 8DPSK 3M DH5 2480MHz

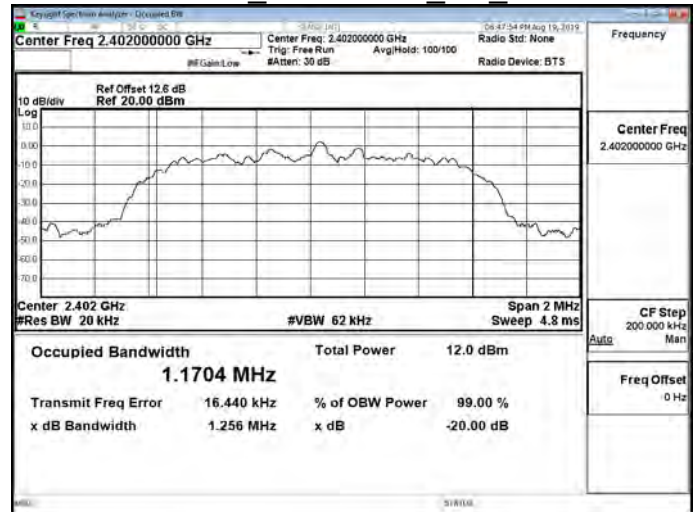


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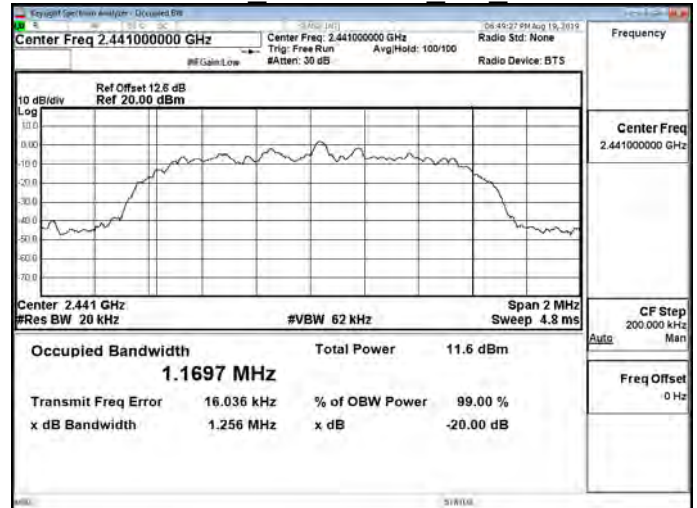
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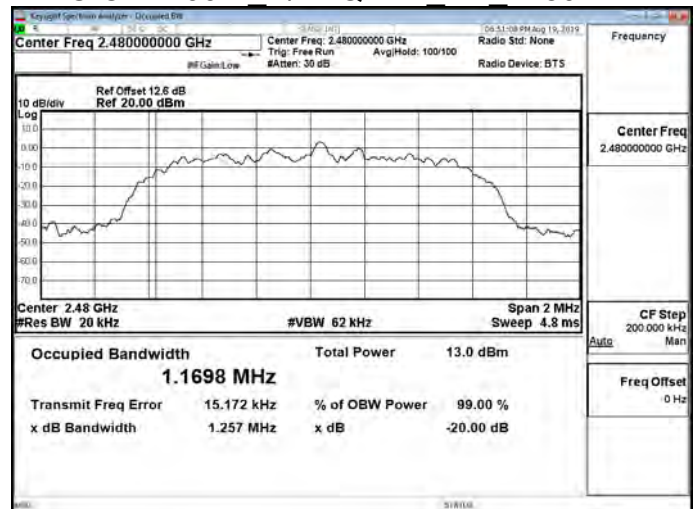
IC OBW 99% GFSK 1M DH5 2402MHz


IC OBW 99% $\pi/4$ DQPSK 2M 2402MHz


IC OBW 99% GFSK 1M DH5 2441MHz


IC OBW 99% $\pi/4$ DQPSK 2M 2441MHz


IC OBW 99% GFSK 1M DH5 2480MHz

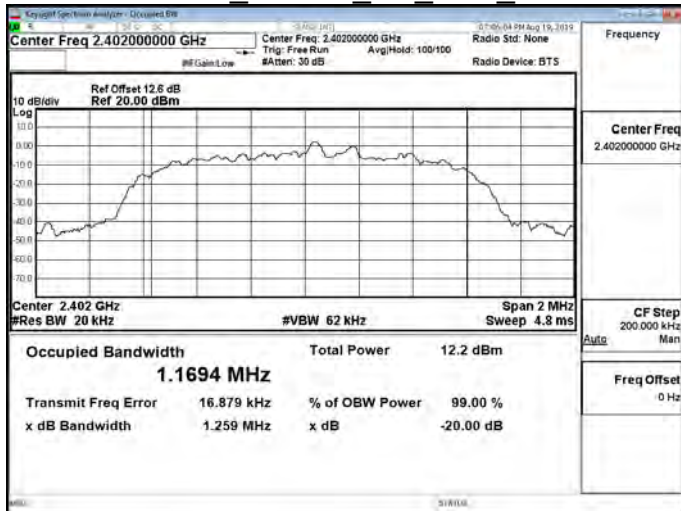

IC OBW 99% $\pi/4$ DQPSK 2M 2480MHz


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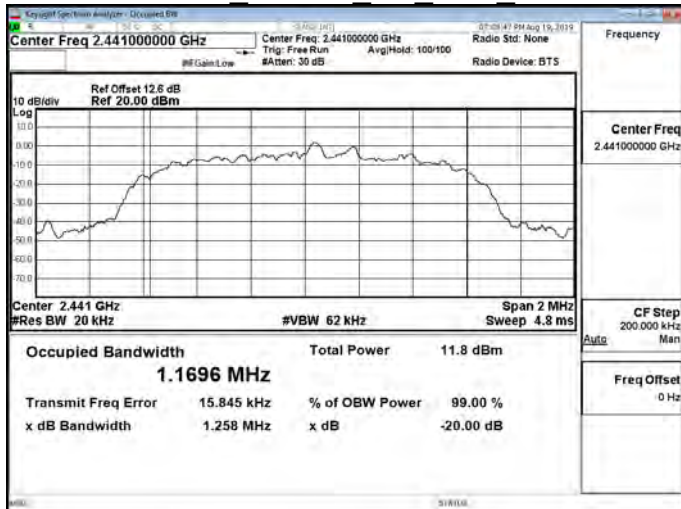
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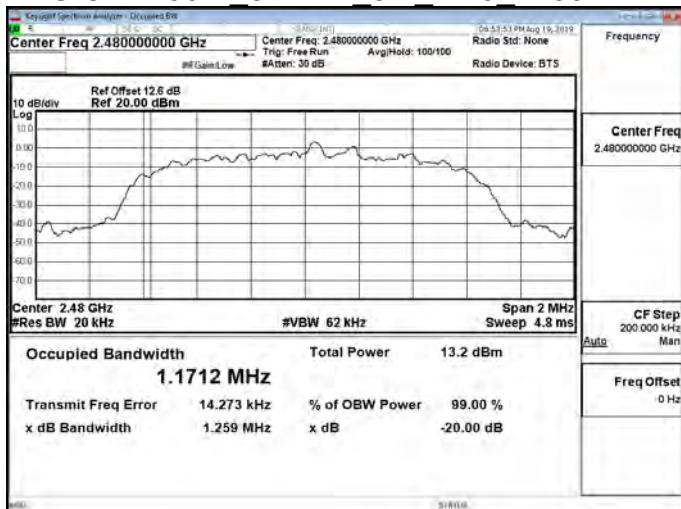
IC OBW 99% 8DPSK 3M DH5 2402MHz



IC OBW 99% 8DPSK 3M DH5 2441MHz



IC OBW 99% 8DPSK 3M DH5 2480MHz



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9 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

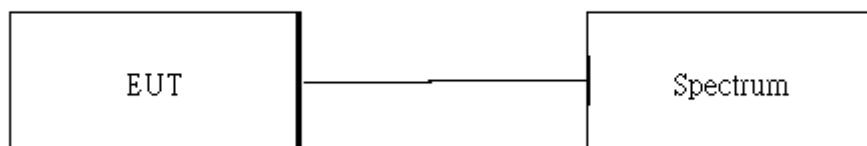
9.1 Standard Applicable

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) & RSS-Gen §8.9 limit.

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

Conducted Band Edge:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013. Measurement Guidelines.
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 center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto
6. Mark Peak, 2.3999GHz and 2.4836GHz and record the max. level.
7. Repeat above procedures until all frequency measured were complete.

Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows ANSI C63.10:2013. Measurement Guidelines.
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.

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	

9.5 Measurement Result

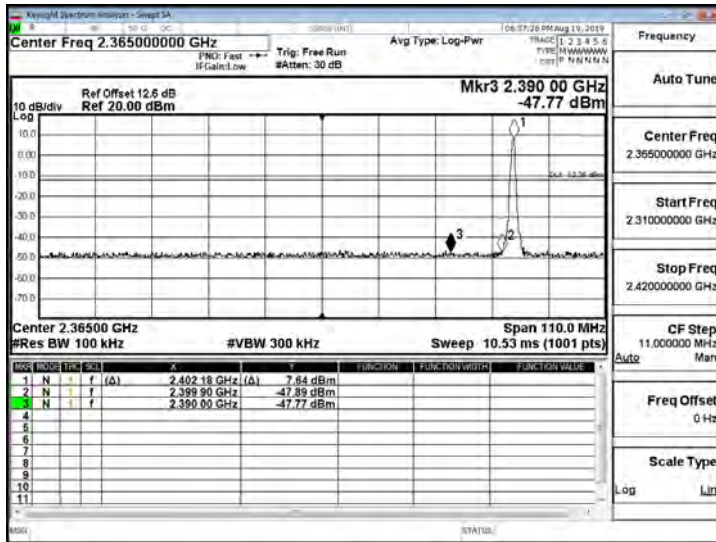
Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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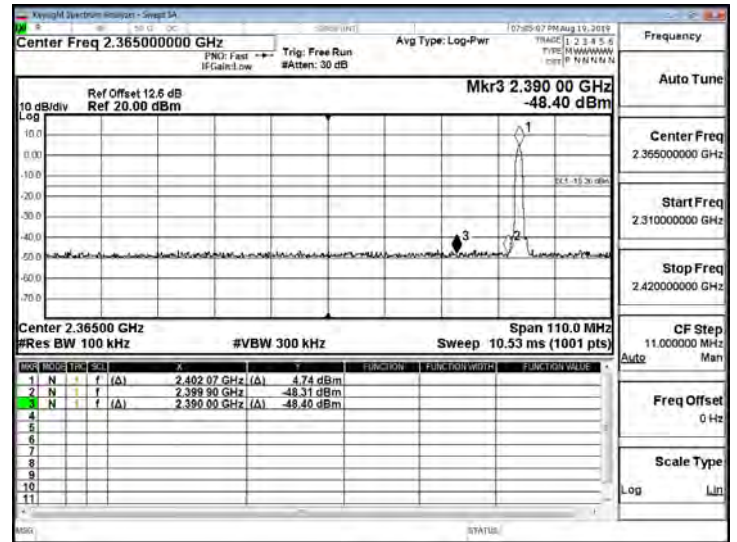
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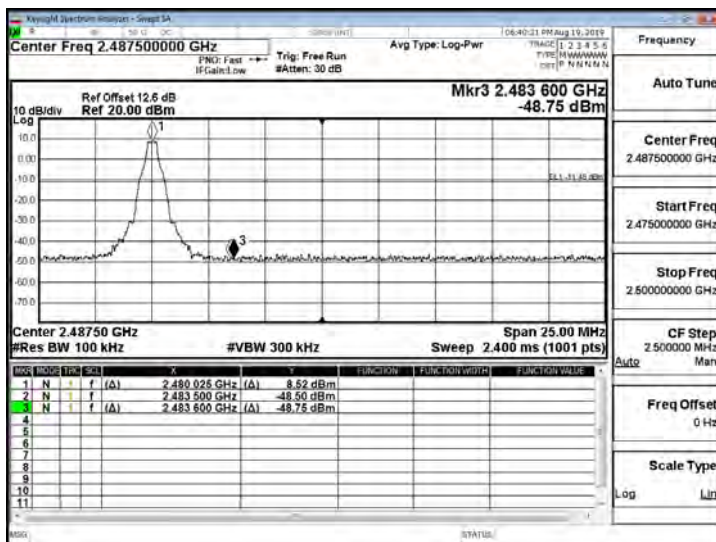
Band Edge_GFSK_1M_DH5_2402MHz



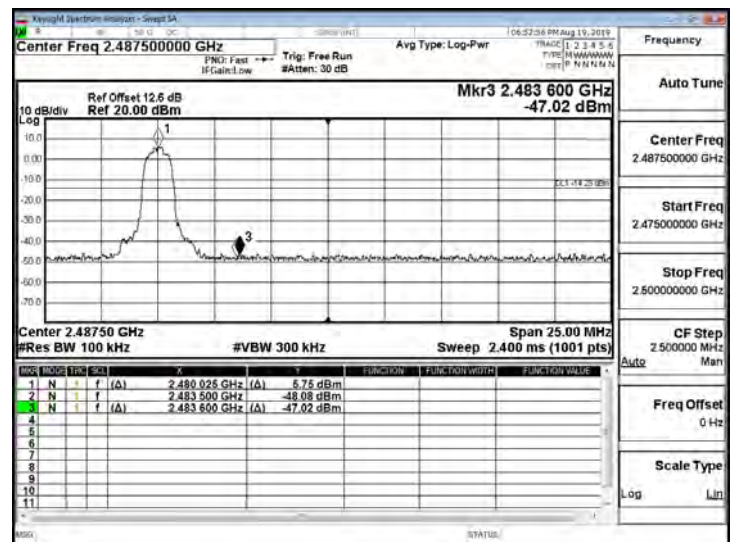
Band Edge_8DPSK_3M_DH5_2402MHz



Band Edge_GFSK_1M_DH5_2480MHz



Band Edge_8DPSK_3M_DH5_2480MHz

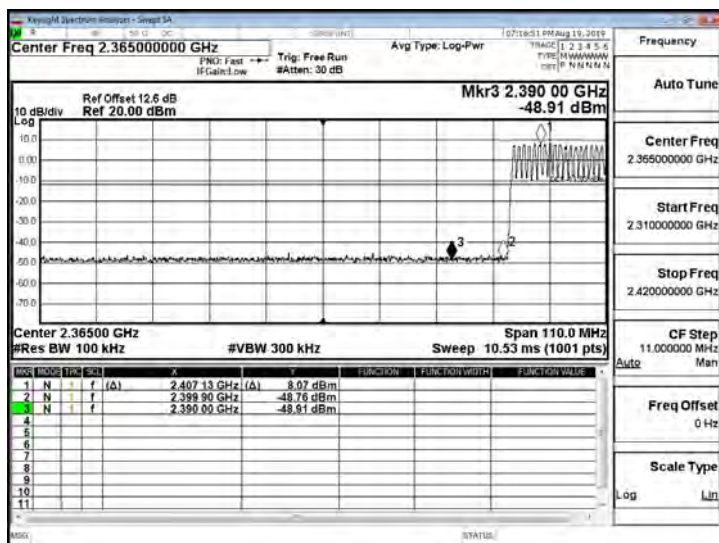


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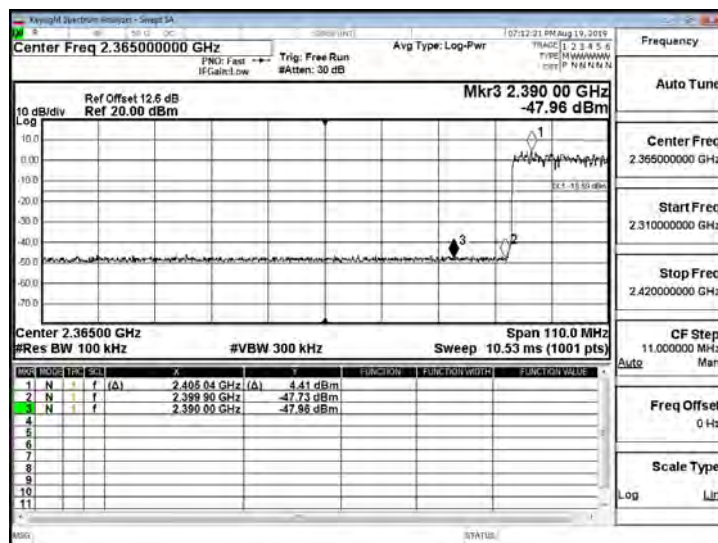
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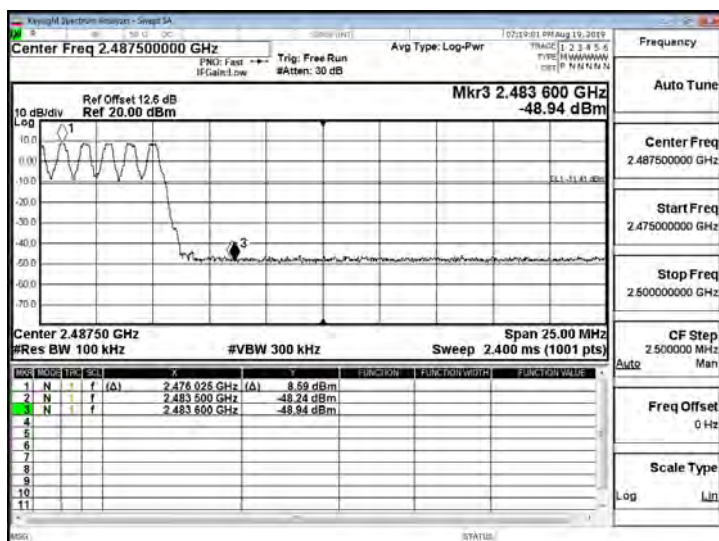
Hopping Band Edge_GFSK_1M_DH5_2402MHz



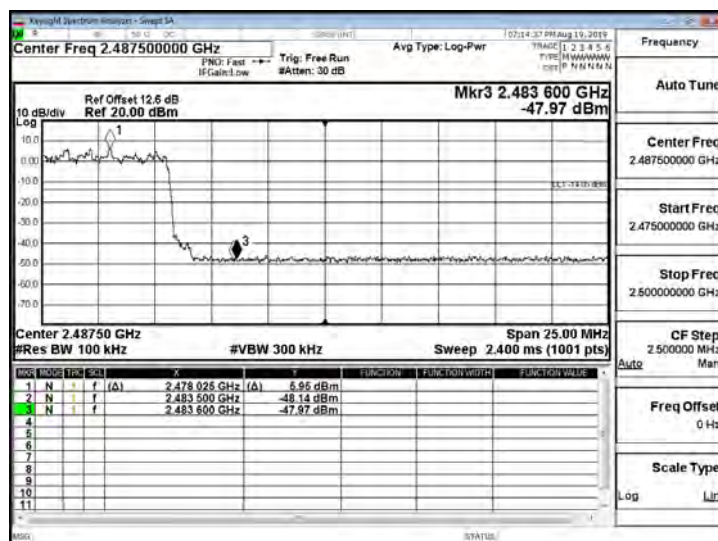
Hopping Band Edge_8DPSK_3M_DH5_2402MHz



Hopping Band Edge_GFSK_1M_DH5_2480MHz



Hopping Band Edge_8DPSK_3M_DH5_2480MHz

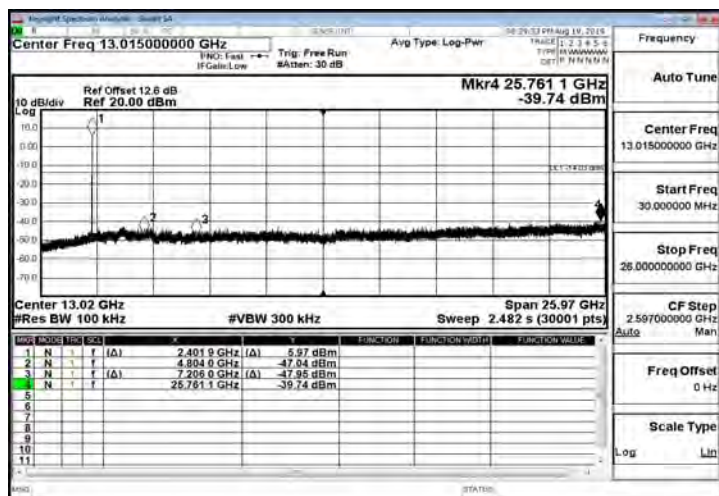


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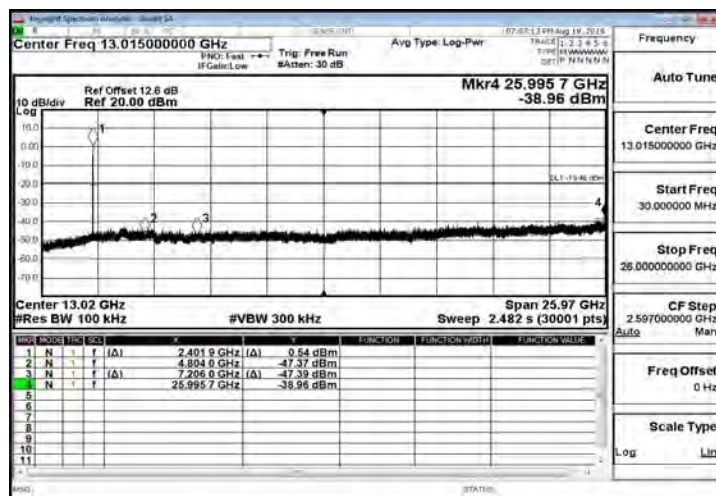
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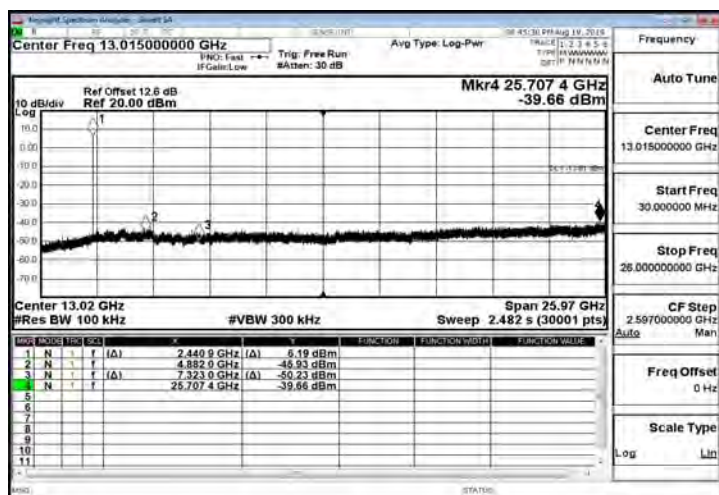
Spurious Emission_GFSK_1M_DH5_2402MHz



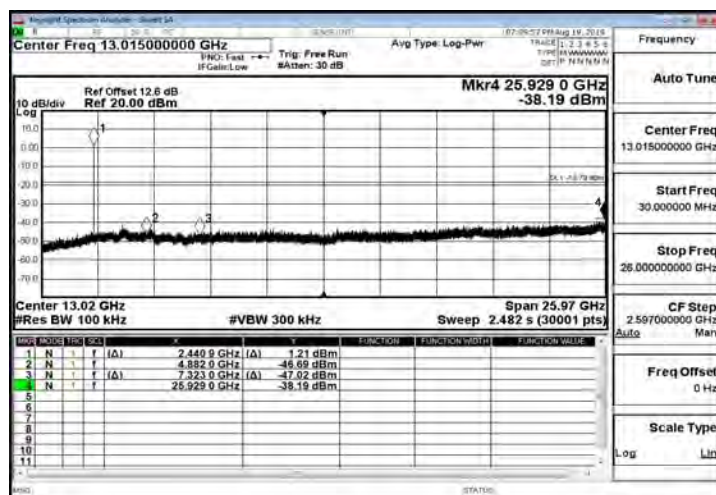
Spurious Emission_8DPSK_3M_DH5_2402MHz



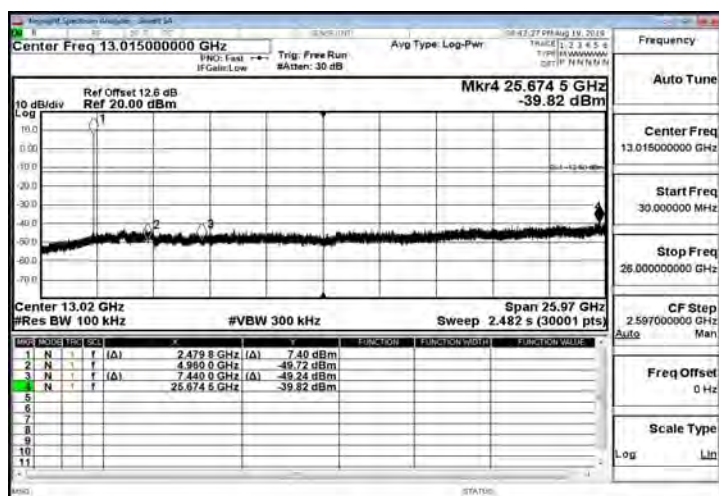
Spurious Emission_GFSK_1M_DH5_2441MHz



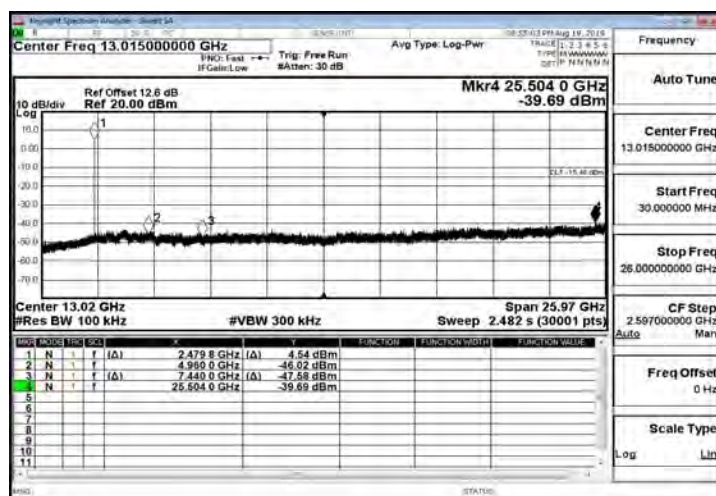
Spurious Emission_8DPSK_3M_DH5_2441MHz



Spurious Emission_GFSK_1M_DH5_2480MHz



Spurious Emission_8DPSK_3M_DH5_2480MHz



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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 §8.10 Table 6 limit.

And according to §15.33(a) (1) & RSS-Gen §8.9 Table 4 & 5, 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	JB3	A030105	07/26/2019	07/25/2020
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
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Horn Antenna	SCHWARZBECK	BBHA 9120D	779	03/09/2019	03/08/2020
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				

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

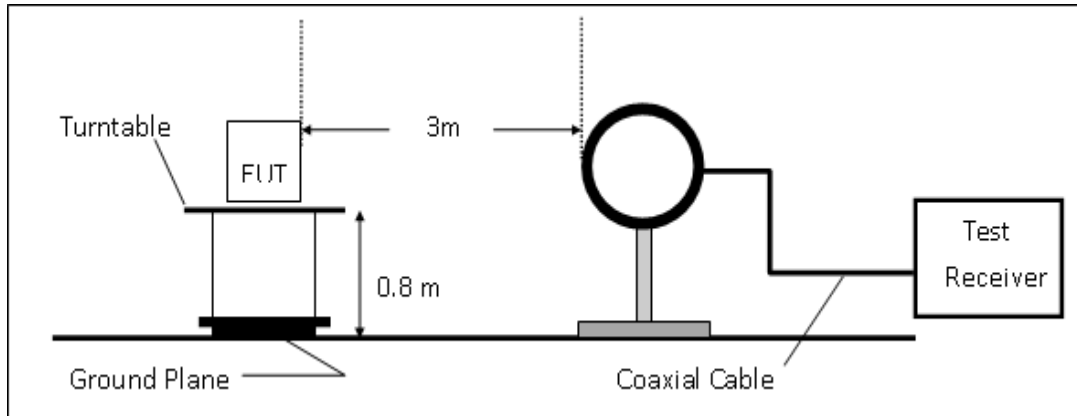
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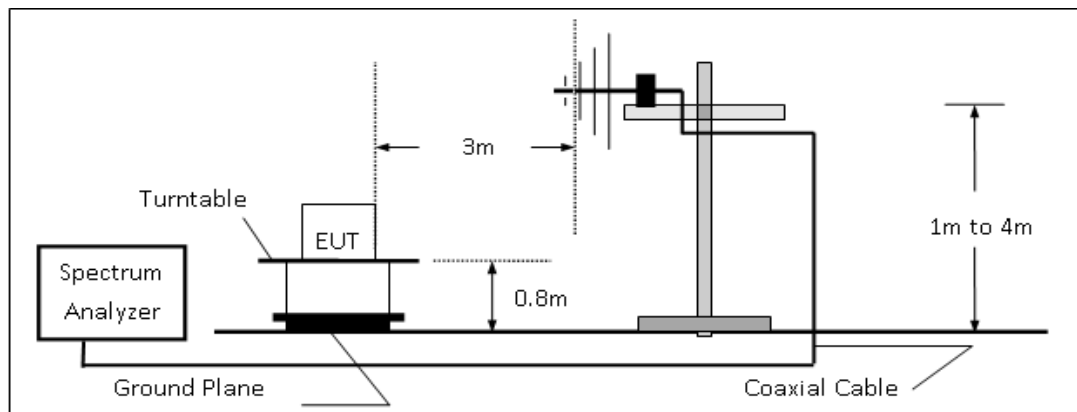
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10.3 Test SET-UP

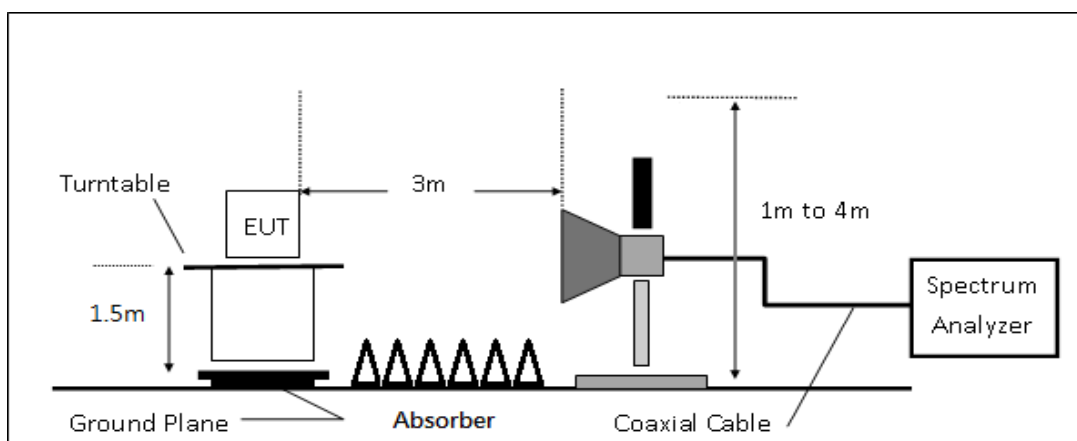
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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10.4 Measurement Procedure

Radiated Emission

1. The testing follows ANSI C63.10:2013. Measurement Guidelines.
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. Use the follow spectrum analyzer setting:
 - (1) Span = wide enough to fully capture the emission being measured
 - (2) RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz, VBW $\geq$ RBW, Sweep = auto, Detector function = peak, Trace = max hold
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c)
 Duty Cycle = On time/100 milliseconds

$$\text{On time} = N1 * L1 = N2 * L2 + \dots + N(n-1) * L(n-1) + N(n) * L(n)$$
 Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.
 Average Emission Level = Peak Emission Level + 20*log (duty Cycle)
6. 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.
7. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
8. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
9. Repeat above procedures until all frequency of the interest measured were complete.

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10.5 Field Strength Calculation

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

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

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

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(\mu\text{V/m})$

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

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

10.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

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

10.7 Measurement Result

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

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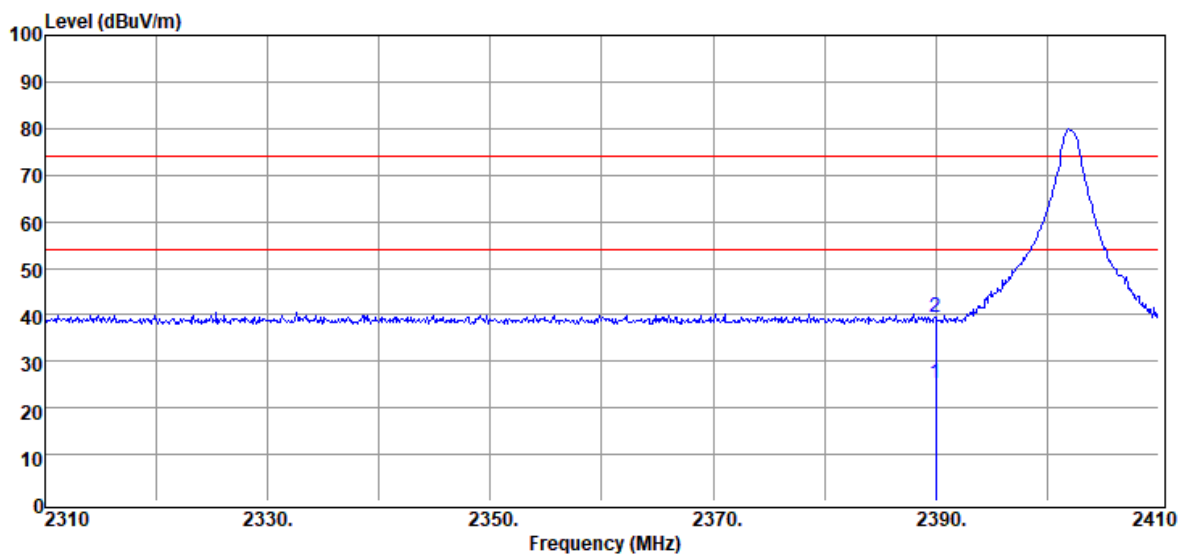
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Radiated Band Edge Measurement Result:

Report Number :T190816W02
 Operation Band :BT BR
 Frequency :2402 MHz
 Operation Mode :BE CH LOW
 EUT Pol. :H Plan

Test Date :2019-08-22
 Temp./Humi. :23.4/68
 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	28.60	-3.38	25.22	54.00	-28.78
2390.00	Peak	42.75	-3.38	39.37	74.00	-34.63

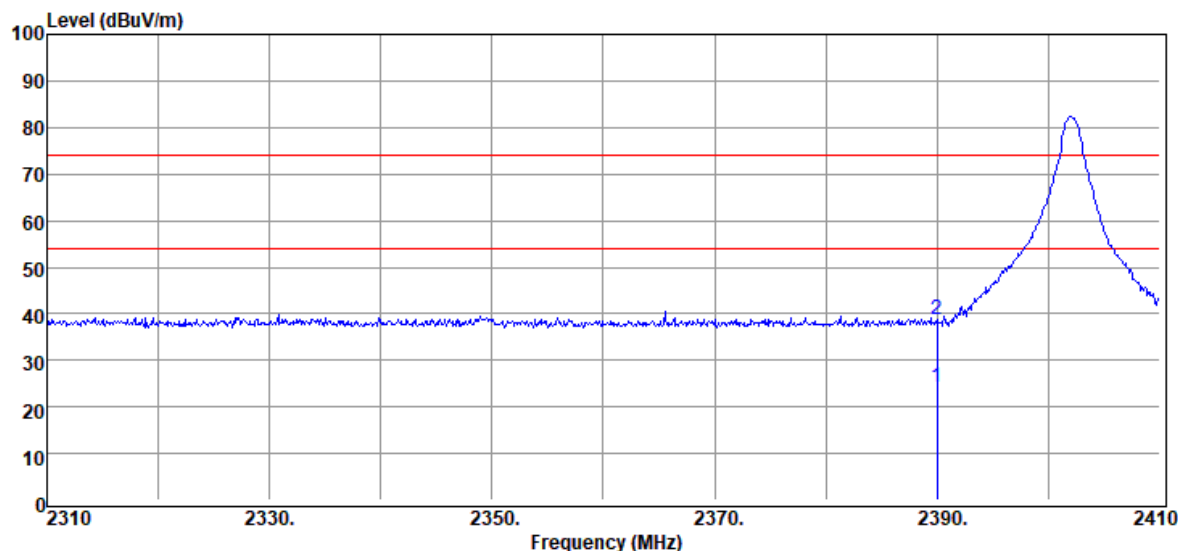
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Report Number :T190816W02
Operation Band :BT BR
Frequency :2402 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.4/68
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	27.70	-3.38	24.32	54.00	-29.68
2390.00	Peak	42.00	-3.38	38.62	74.00	-35.38

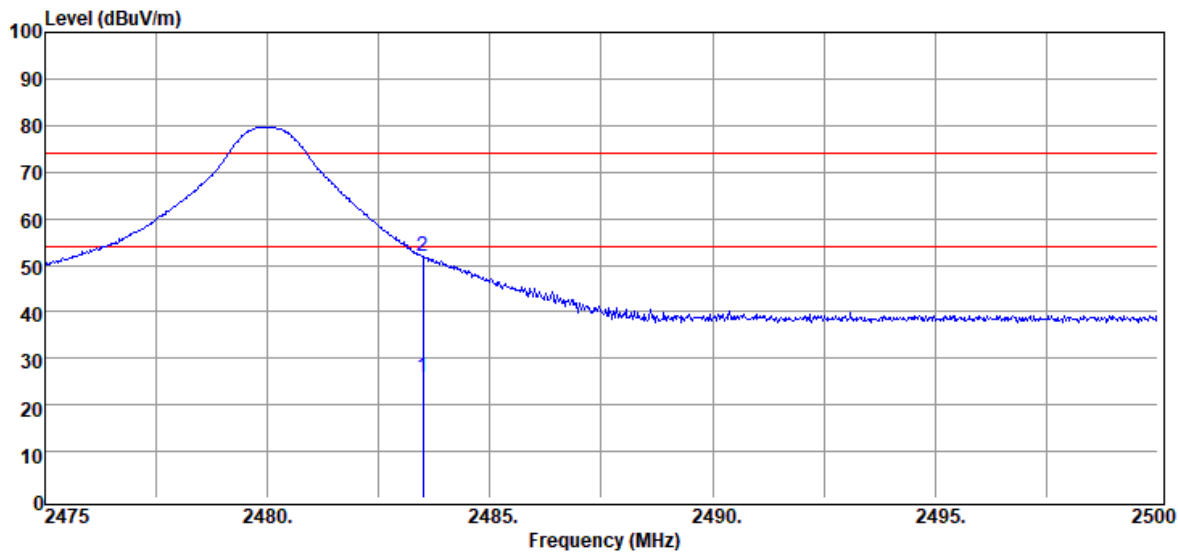
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Report Number :T190816W02
Operation Band :BT BR
Frequency :2480 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.4/68
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	28.66	-2.83	25.83	54.00	-28.17
2483.50	Peak	54.64	-2.83	51.81	74.00	-22.19

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Report Number :T190816W02

Operation Band :BT BR

Frequency :2480 MHz

Operation Mode :BE CH HIGH

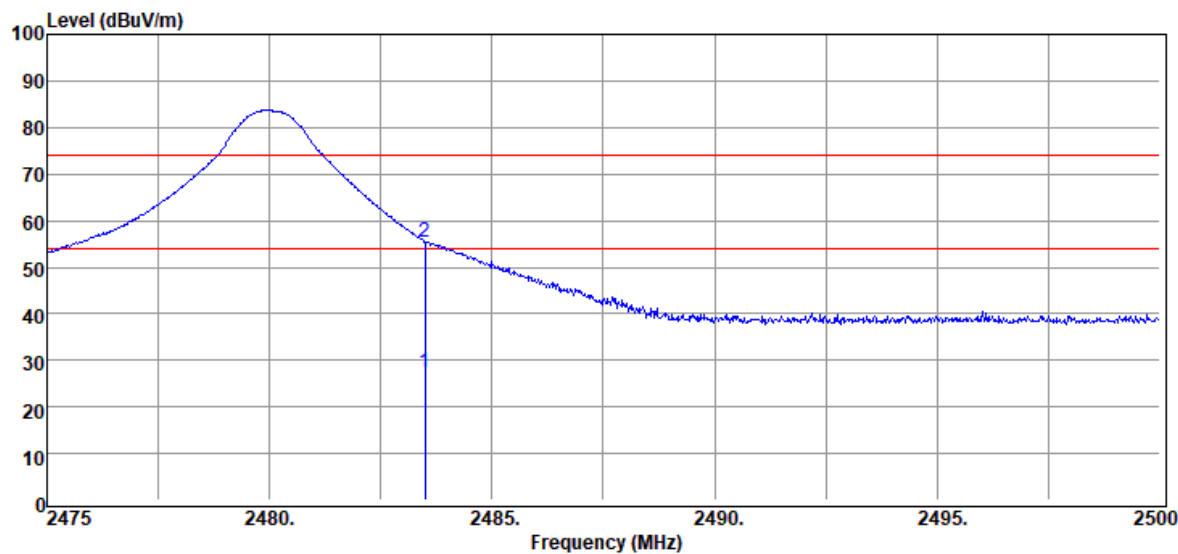
EUT Pol. :H Plan

Test Date :2019-08-22

Temp./Humi. :23.4/68

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	30.02	-2.83	27.19	54.00	-26.81
2483.50	Peak	58.20	-2.83	55.37	74.00	-18.63

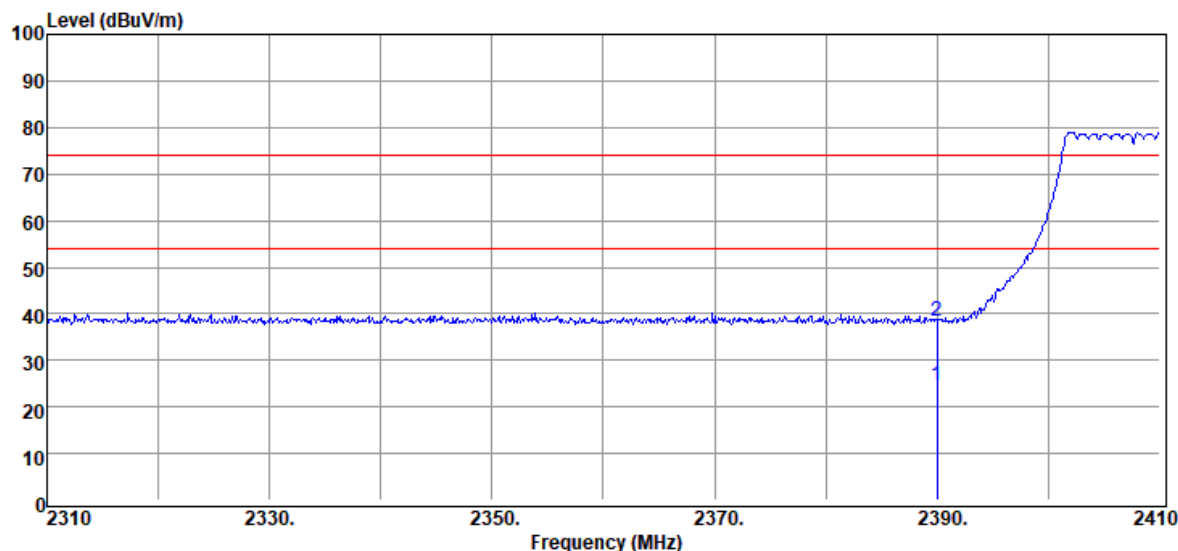
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Report Number :T190816W02
Operation Band :BT BR Hopping
Frequency :2402 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.4/68
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	28.12	-3.38	24.74	54.00	-29.26
2390.00	Peak	41.81	-3.38	38.43	74.00	-35.57

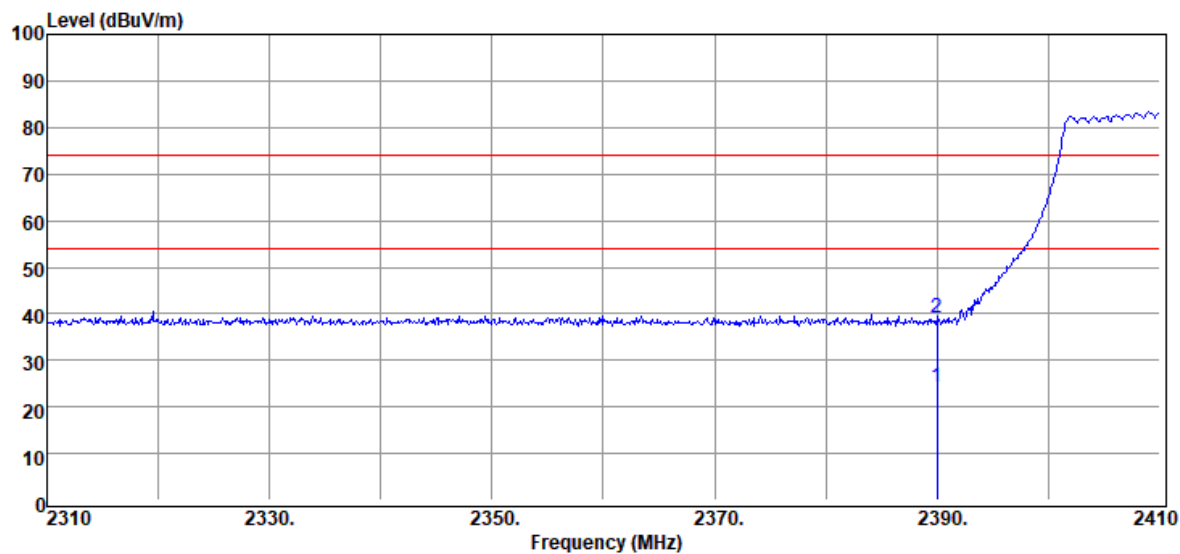
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Report Number :T190816W02
Operation Band :BT BR Hopping
Frequency :2402 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.4/68
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	27.71	-3.38	24.33	54.00	-29.67
2390.00	Peak	42.50	-3.38	39.12	74.00	-34.88

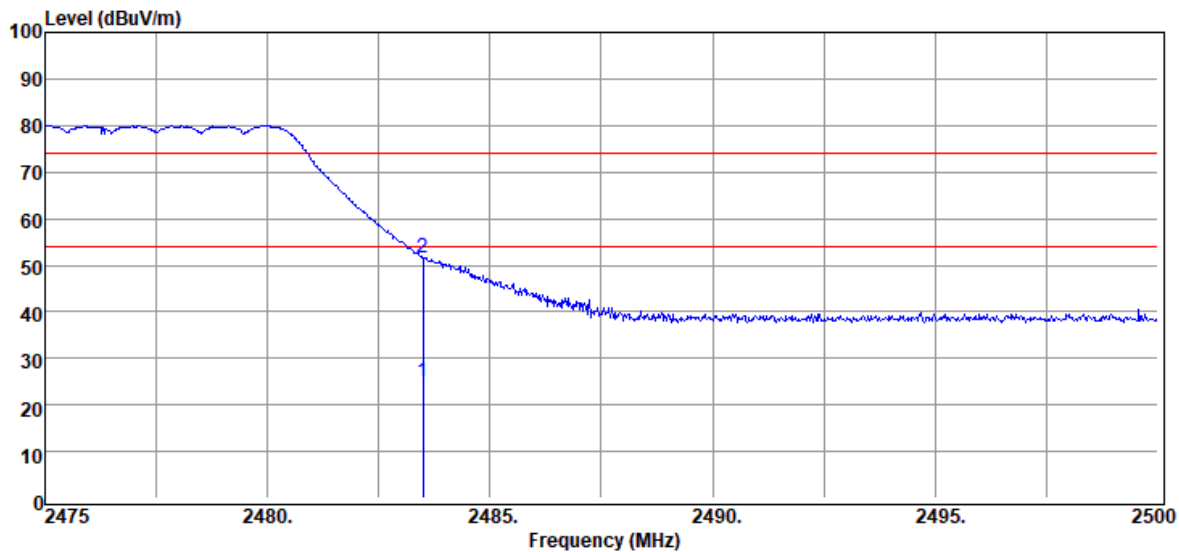
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Report Number :T190816W02
Operation Band :BT BR Hopping
Frequency :2480 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.4/68
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	27.68	-2.83	24.85	54.00	-29.15
2483.50	Peak	54.28	-2.83	51.45	74.00	-22.55

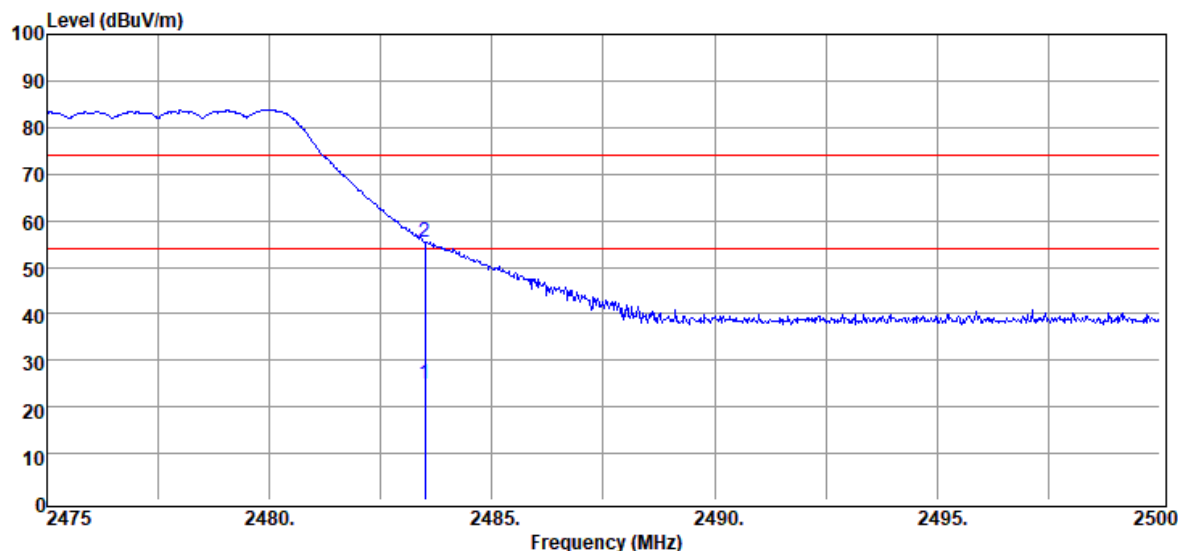
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Report Number :T190816W02
Operation Band :BT BR Hopping
Frequency :2480 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.4/68
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	27.75	-2.83	24.92	54.00	-29.08
2483.50	Peak	58.30	-2.83	55.47	74.00	-18.53

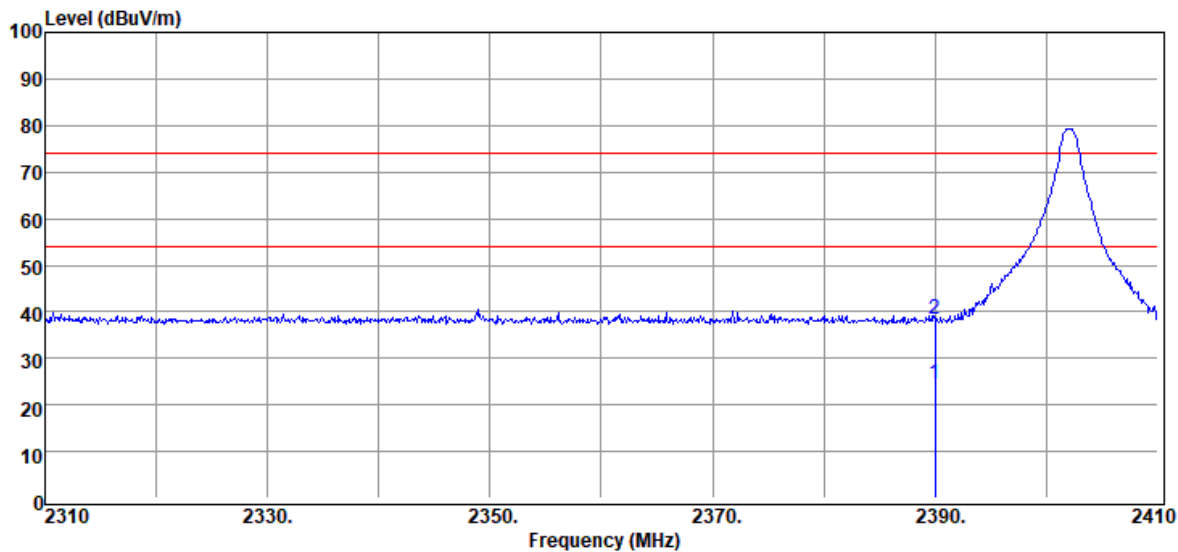
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Report Number :T190816W02
Operation Band :BT EDR
Frequency :2402 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.3/70
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	27.85	-3.38	24.47	54.00	-29.53
2390.00	Peak	41.89	-3.38	38.51	74.00	-35.49

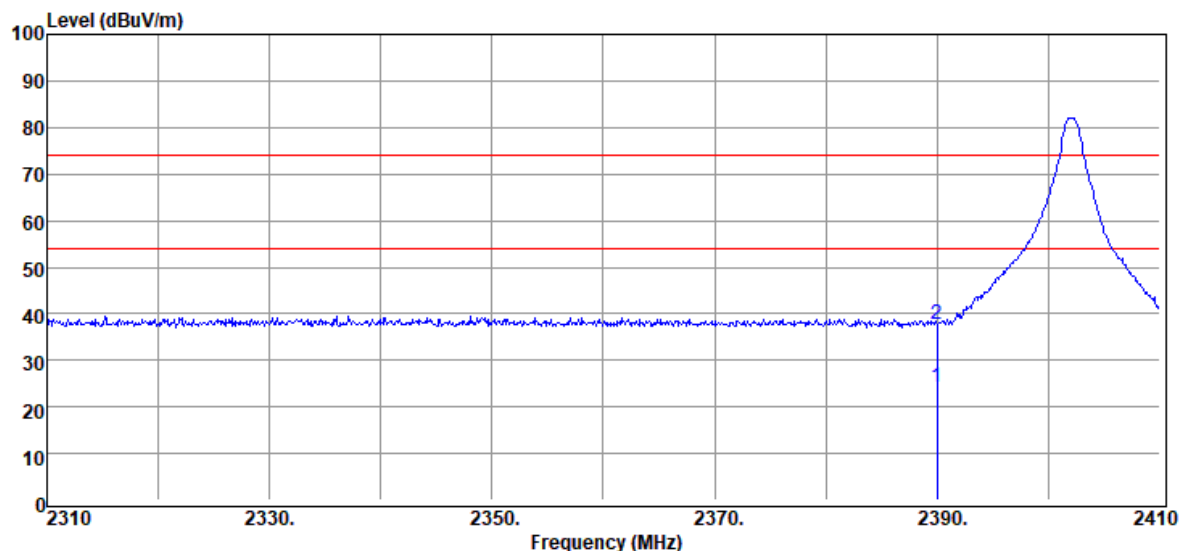
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Report Number :T190816W02
Operation Band :BT EDR
Frequency :2402 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.3/70
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	27.66	-3.38	24.28	54.00	-29.72
2390.00	Peak	41.17	-3.38	37.79	74.00	-36.21

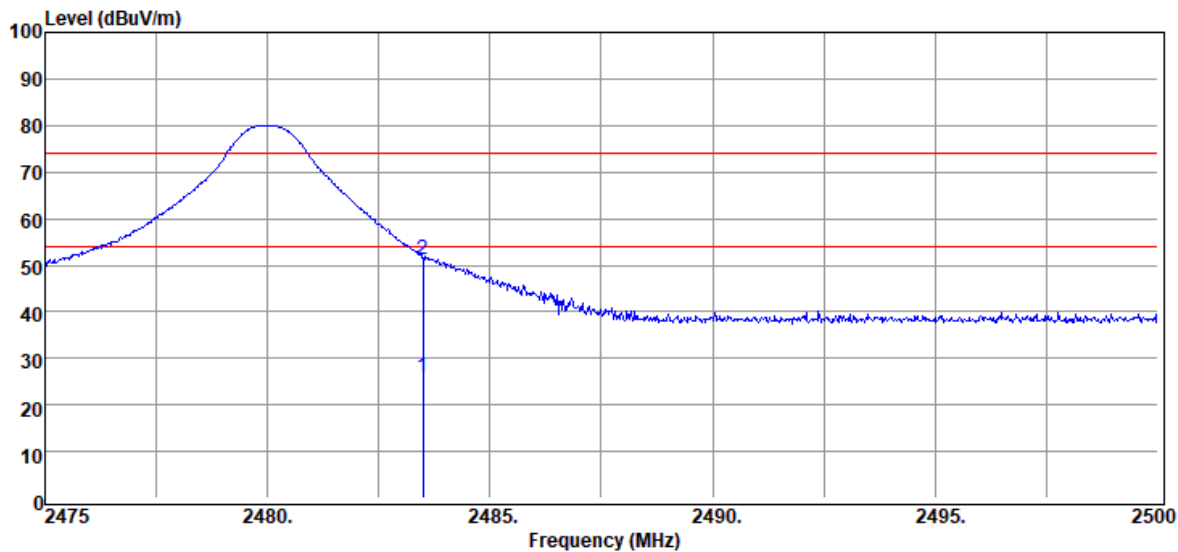
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Report Number :T190816W02
Operation Band :BT EDR
Frequency :2480 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.3/70
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	28.86	-2.83	26.03	54.00	-27.97
2483.50	Peak	54.15	-2.83	51.32	74.00	-22.68

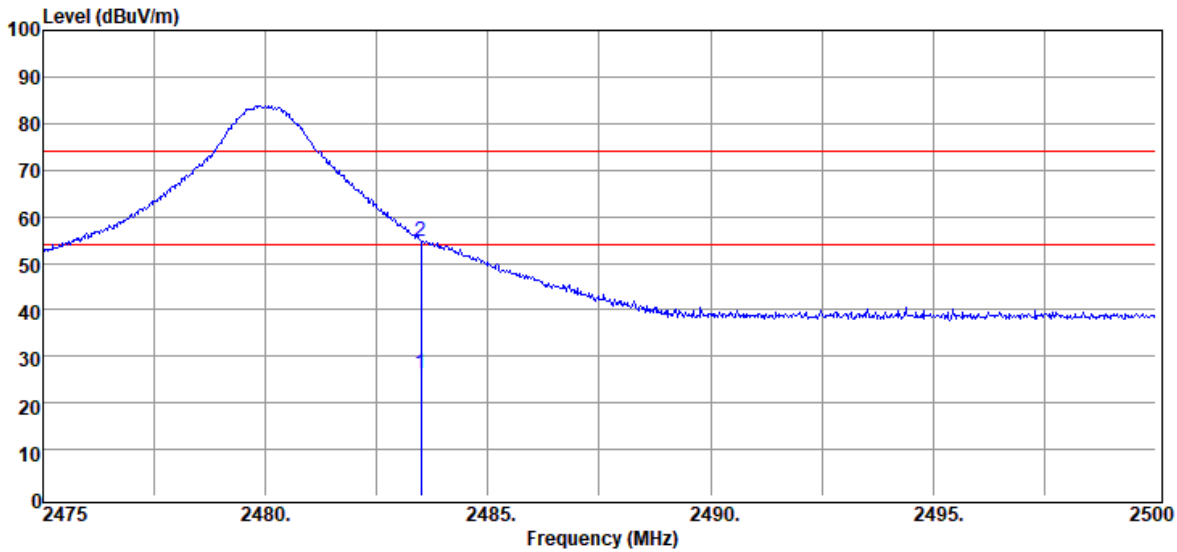
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Report Number :T190816W02
Operation Band :BT EDR
Frequency :2480 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.3/70
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	28.96	-2.83	26.13	54.00	-27.87
2483.50	Peak	57.61	-2.83	54.78	74.00	-19.22

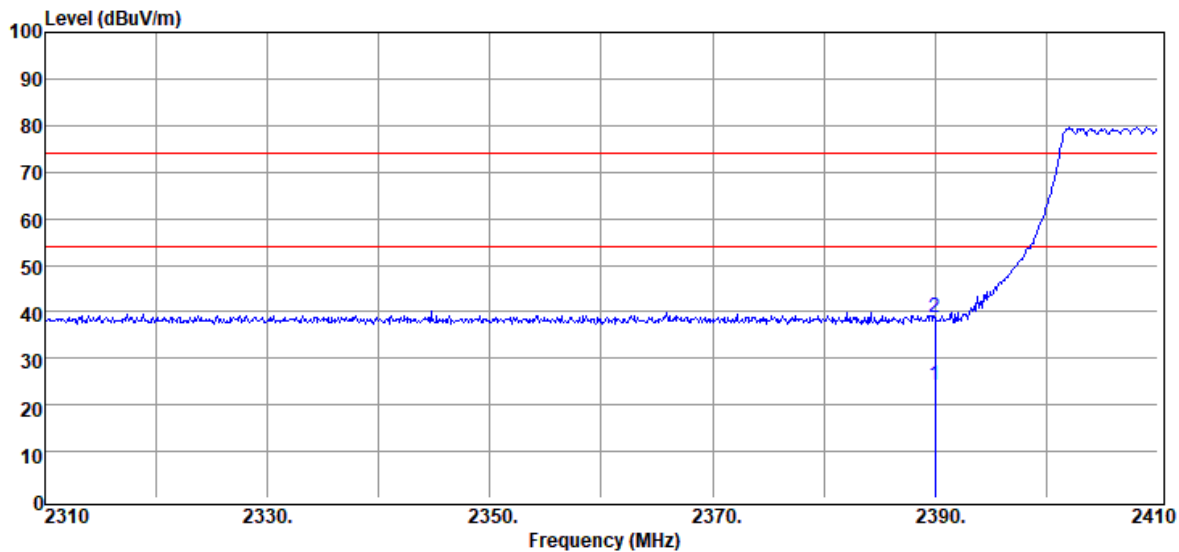
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Report Number :T190816W02
Operation Band :BT EDR Hopping
Frequency :2402 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.3/70
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	27.63	-3.38	24.25	54.00	-29.75
2390.00	Peak	42.20	-3.38	38.82	74.00	-35.18

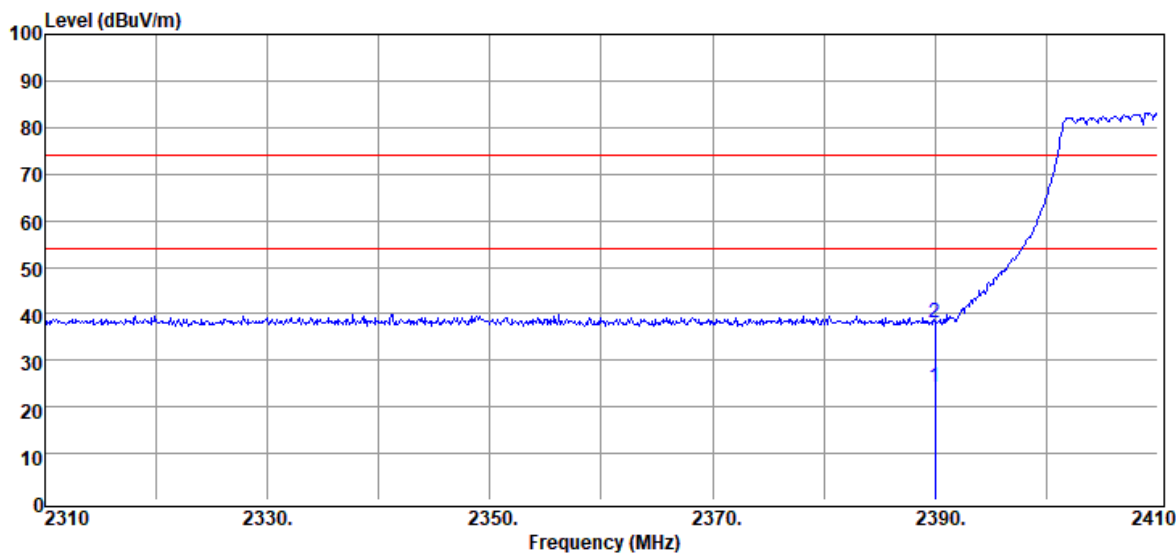
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Report Number :T190816W02
Operation Band :BT EDR Hopping
Frequency :2402 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.3/70
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	27.70	-3.38	24.32	54.00	-29.68
2390.00	Peak	41.32	-3.38	37.94	74.00	-36.06

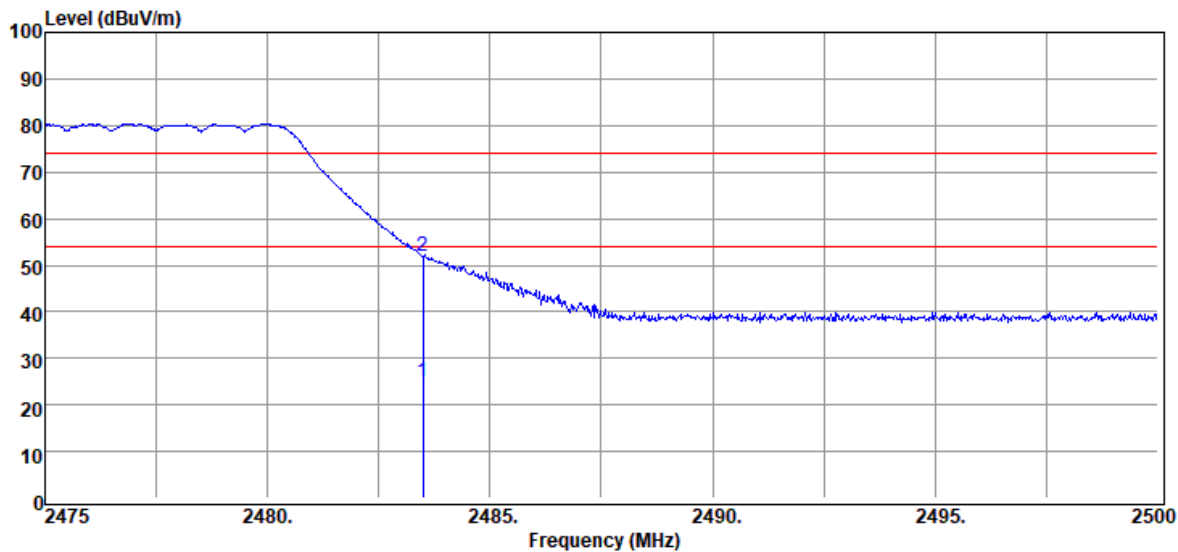
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Report Number :T190816W02
Operation Band :BT EDR Hopping
Frequency :2480 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.3/70
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	27.71	-2.83	24.88	54.00	-29.12
2483.50	Peak	54.85	-2.83	52.02	74.00	-21.98

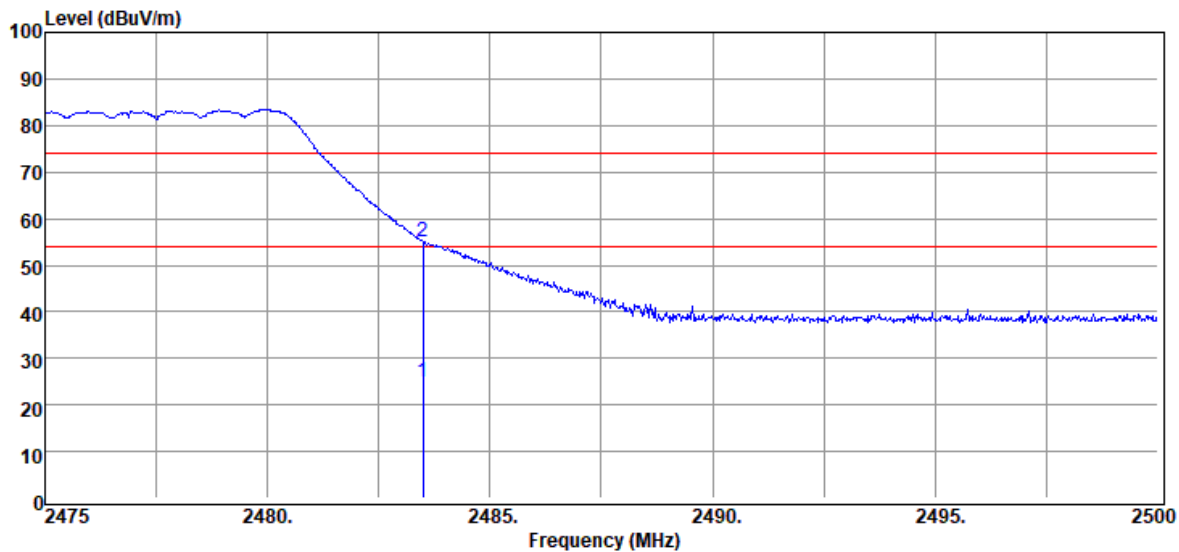
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Report Number :T190816W02
Operation Band :BT EDR Hopping
Frequency :2480 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.3/70
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	27.65	-2.83	24.82	54.00	-29.18
2483.50	Peak	57.86	-2.83	55.03	74.00	-18.97

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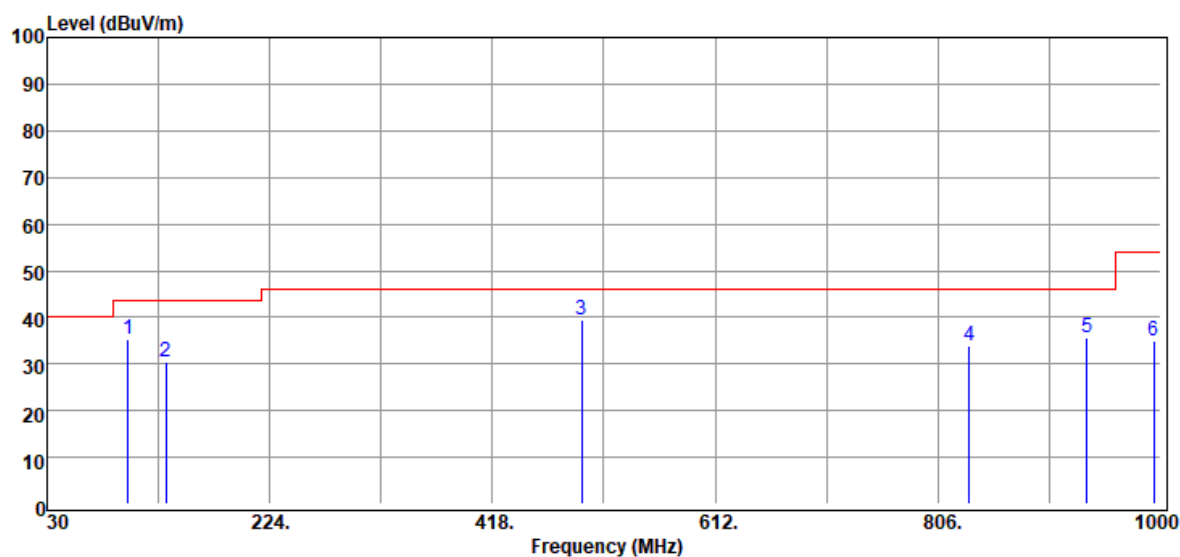
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Radiated Spurious Emission Measurement Result: Frequency form 30MHz to 1000MHz

Report Number :T190816W02
Operation Band :BT BR
Frequency :2441 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.1/61
Antenna Pol. :VERTICAL
Engineer :Kailin



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
100.81	Peak	47.76	-12.44	35.32	43.50	-8.18
133.79	Peak	39.86	-9.31	30.55	43.50	-12.95
495.60	Peak	42.40	-3.04	39.36	46.00	-6.64
833.16	Peak	30.34	3.51	33.85	46.00	-12.15
935.98	Peak	31.87	3.84	35.71	46.00	-10.29
994.18	Peak	29.67	5.18	34.85	54.00	-19.15

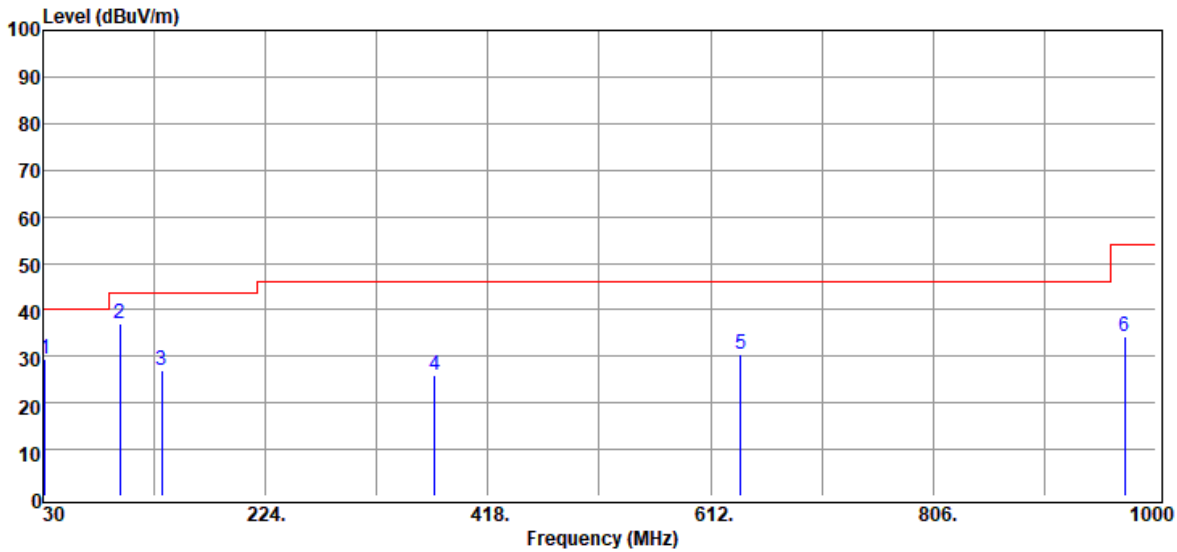
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Report Number :T190816W02
Operation Band :BT BR
Frequency :2441 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.1/61
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
31.94	Peak	32.72	-3.40	29.32	40.00	-10.68
96.93	Peak	50.56	-13.46	37.10	43.50	-6.40
133.79	Peak	36.20	-9.31	26.89	43.50	-16.61
371.44	Peak	32.29	-6.42	25.87	46.00	-20.13
638.19	Peak	30.85	-0.37	30.48	46.00	-15.52
972.84	Peak	28.81	5.56	34.37	54.00	-19.63

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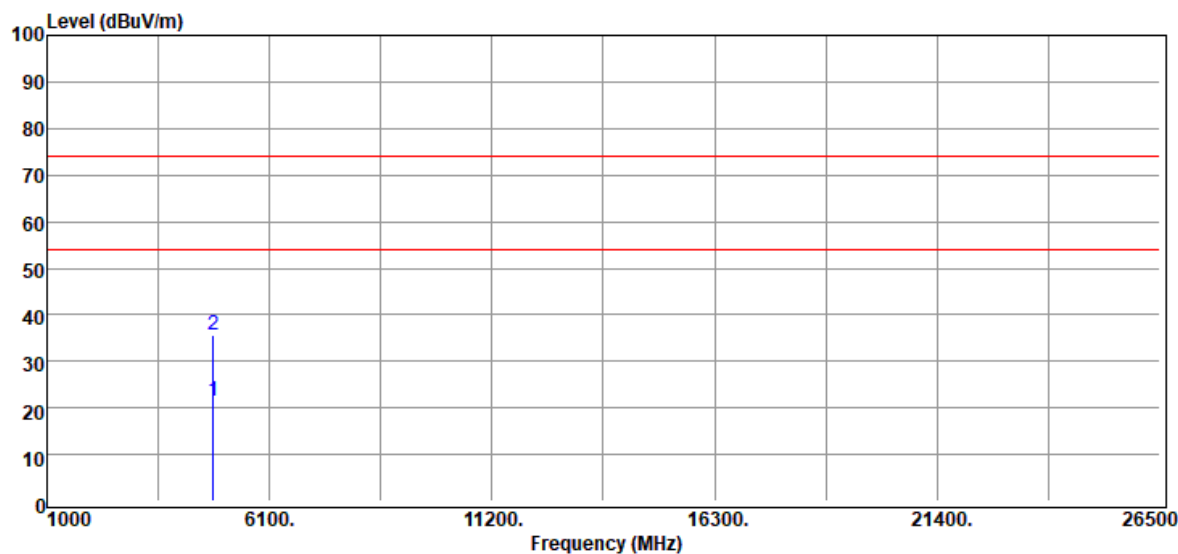
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Frequency above 1 GHz

Report Number :T190816W02
 Operation Band :BT BR
 Frequency :2402 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-08-22
 Temp./Humi. :23.7/66
 Antenna Pol. :VERTICAL
 Engineer :Kailin



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	18.71	2.84	21.55	54.00	-32.45
4804.00	Peak	32.85	2.84	35.69	74.00	-38.31

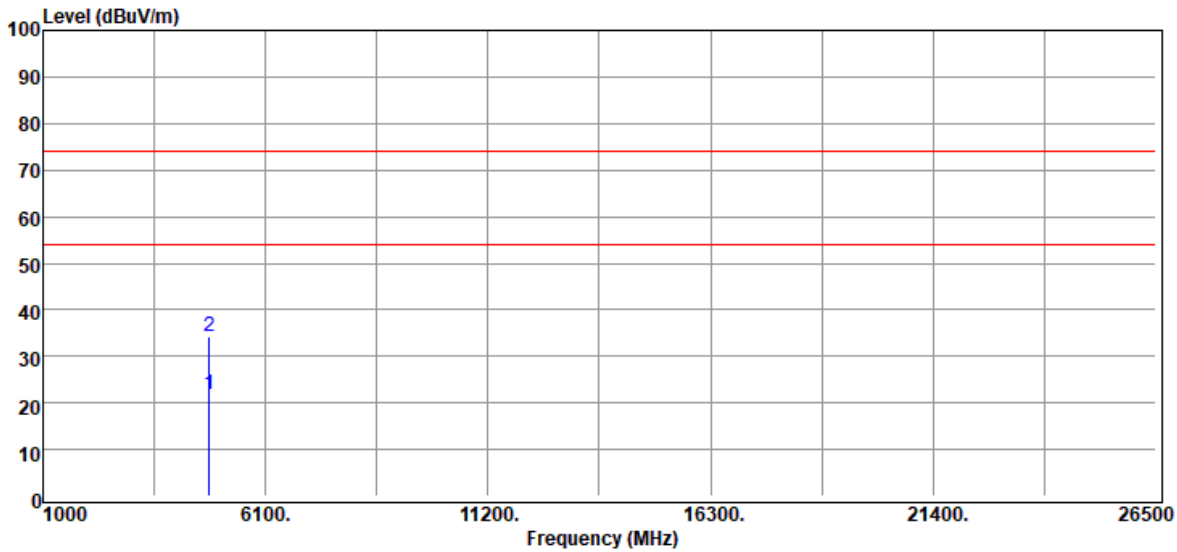
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Report Number :T190816W02
Operation Band :BT BR
Frequency :2402 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.7/66
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
4804.00	Average	19.03	2.84	21.87	54.00	-32.13
4804.00	Peak	31.55	2.84	34.39	74.00	-39.61

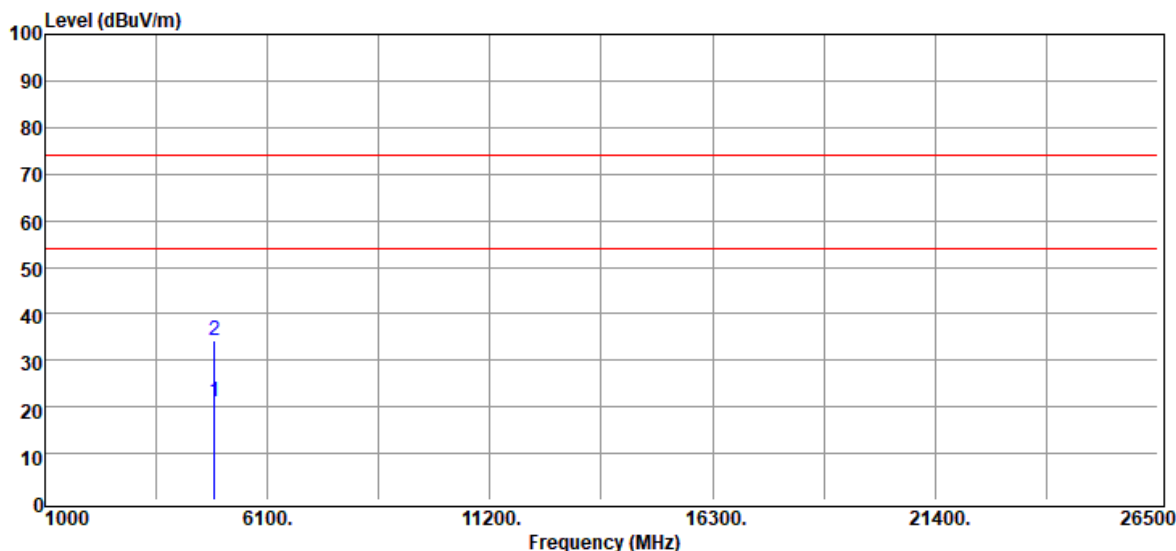
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Report Number :T190816W02
Operation Band :BT BR
Frequency :2441 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.4/57
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
4882.00	Average	18.24	3.03	21.27	54.00	-32.73
4882.00	Peak	31.29	3.03	34.32	74.00	-39.68

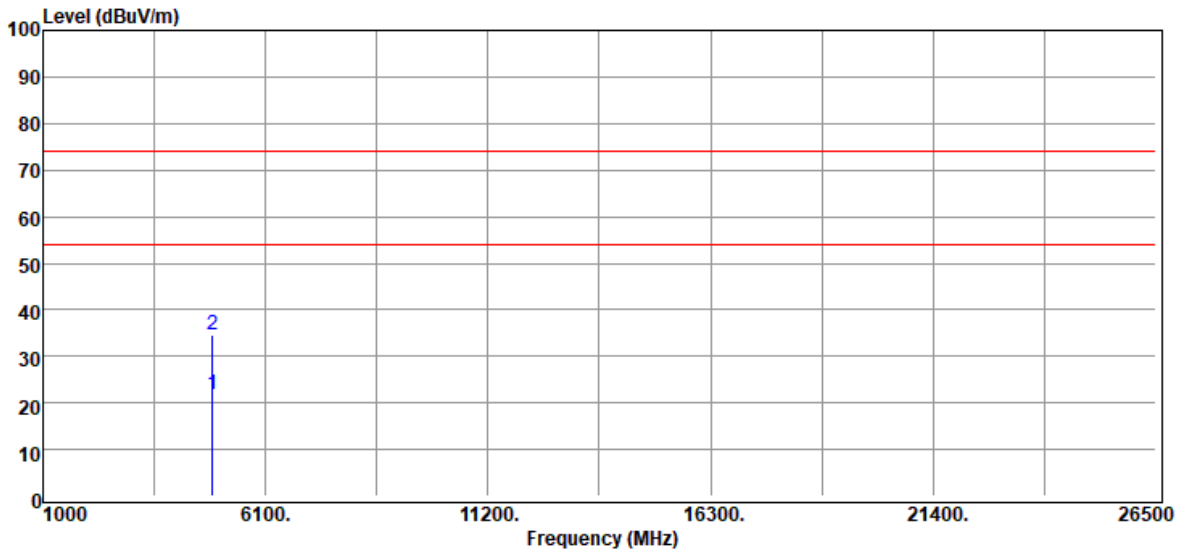
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Report Number :T190816W02
Operation Band :BT BR
Frequency :2441 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.4/57
Antenna Pol. :HORIZONTAL
Engineer :Kailin



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
4882.00	Average	18.61	3.03	21.64	54.00	-32.36
4882.00	Peak	31.43	3.03	34.46	74.00	-39.54

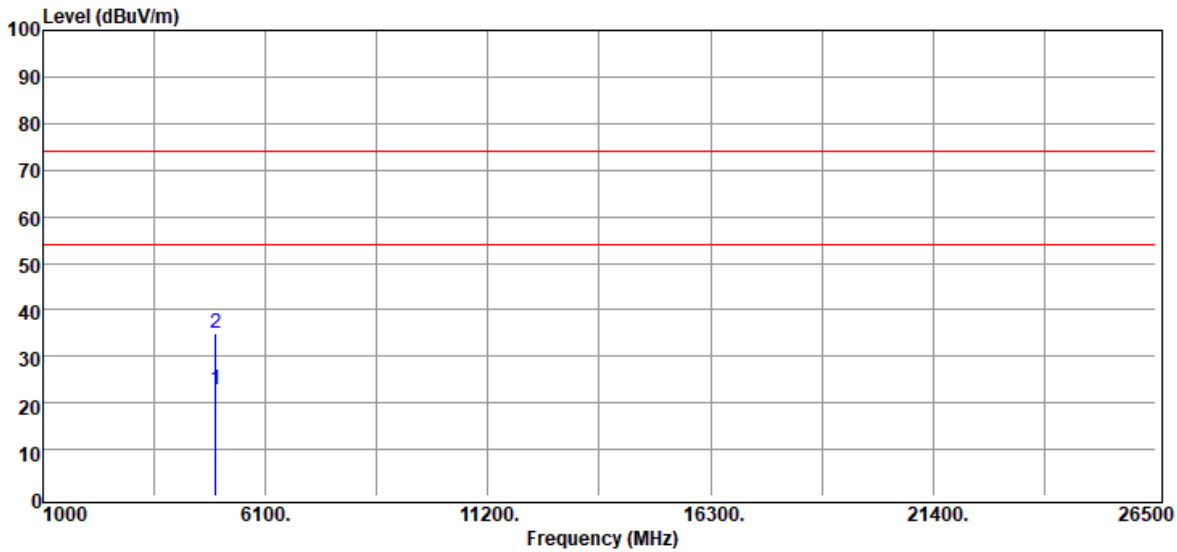
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Report Number :T190816W02
Operation Band :BT BR
Frequency :2480 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.2/65
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Average	18.86	3.85	22.71	54.00	-31.29
4960.00	Peak	31.07	3.85	34.92	74.00	-39.08

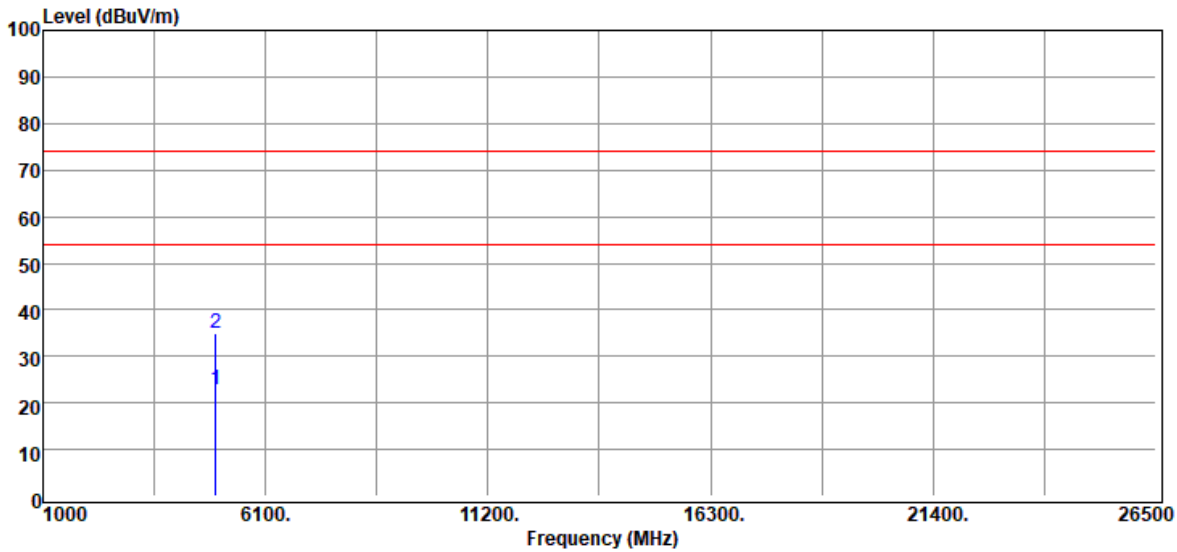
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Report Number :T190816W02
Operation Band :BT BR
Frequency :2480 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :23.2/65
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
4960.00	Average	19.09	3.85	22.94	54.00	-31.06
4960.00	Peak	31.18	3.85	35.03	74.00	-38.97

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11 FREQUENCY SEPARATION

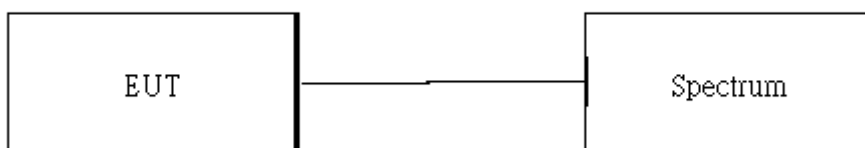
11.1 Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the $2/3 \times 20\text{dB}$ bandwidth of the hopping channel, whichever is greater.

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. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013. Measurement Guidelines.
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 center frequency of spectrum analyzer = middle of hopping channel.
5. Set the spectrum analyzer as RBW, VBW=100 kHz, Adjust Span to 5MHz, Sweep = auto.
6. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

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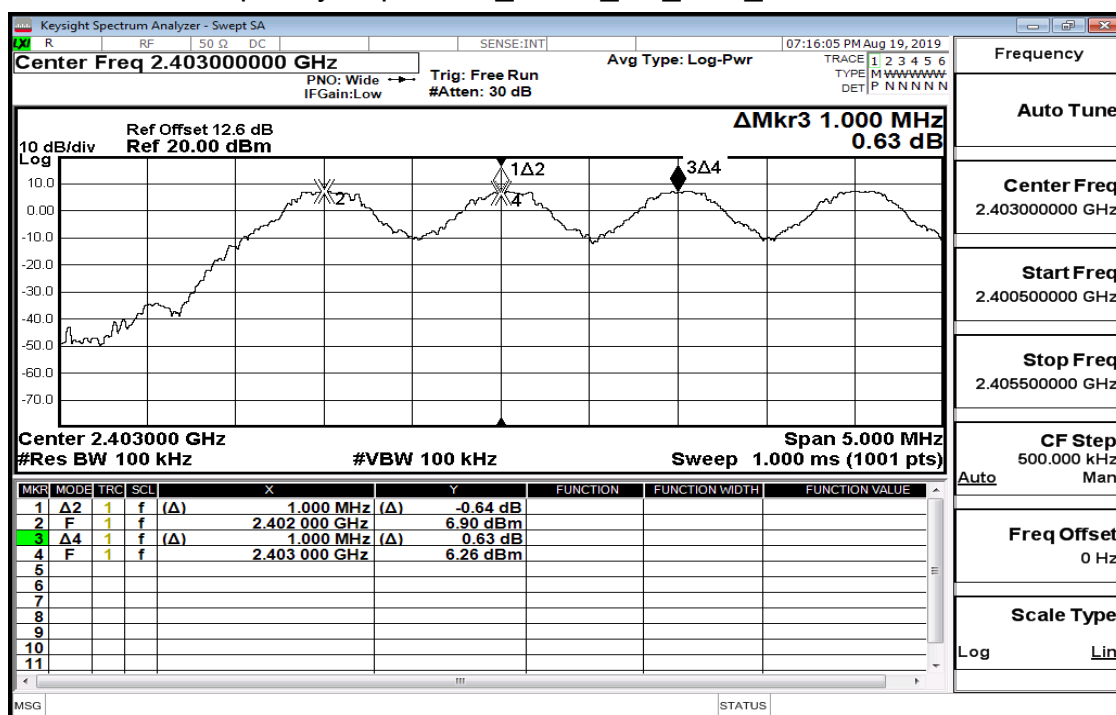
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11.5 Measurement Result

Channel separation (MHz)	Limit	Result
1	≥ 25 kHz or 2/3 times 20dB bandwidth	PASS

Frequency Separation Test Data

Frequency Separation_GFSK_1M_DH5_CH0CH1CH2



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12 NUMBER OF HOPPING FREQUENCY

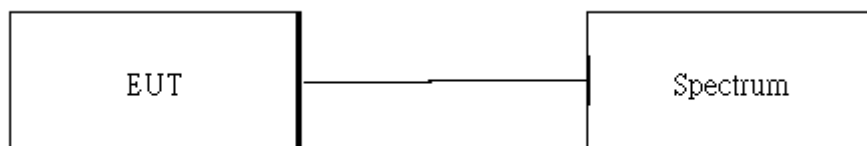
12.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

12.2 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

12.3 Test Set-up



12.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013. Measurement Guidelines.
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 spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
5. Set the spectrum analyzer as RBW=430 kHz, VBW=1.5MHz., Detector = Peak
6. Max hold, view and count how many channel in the band.

12.5 Measurement Result

Tabular Data of Total Channel Number

	Channel Number	Limit
2.4 GHz – 2.441GHz	40	>15
2.441 GHz – 2.4835GHz	39	
2.4GHz ~2.4835GHz	(40+39) = 79	

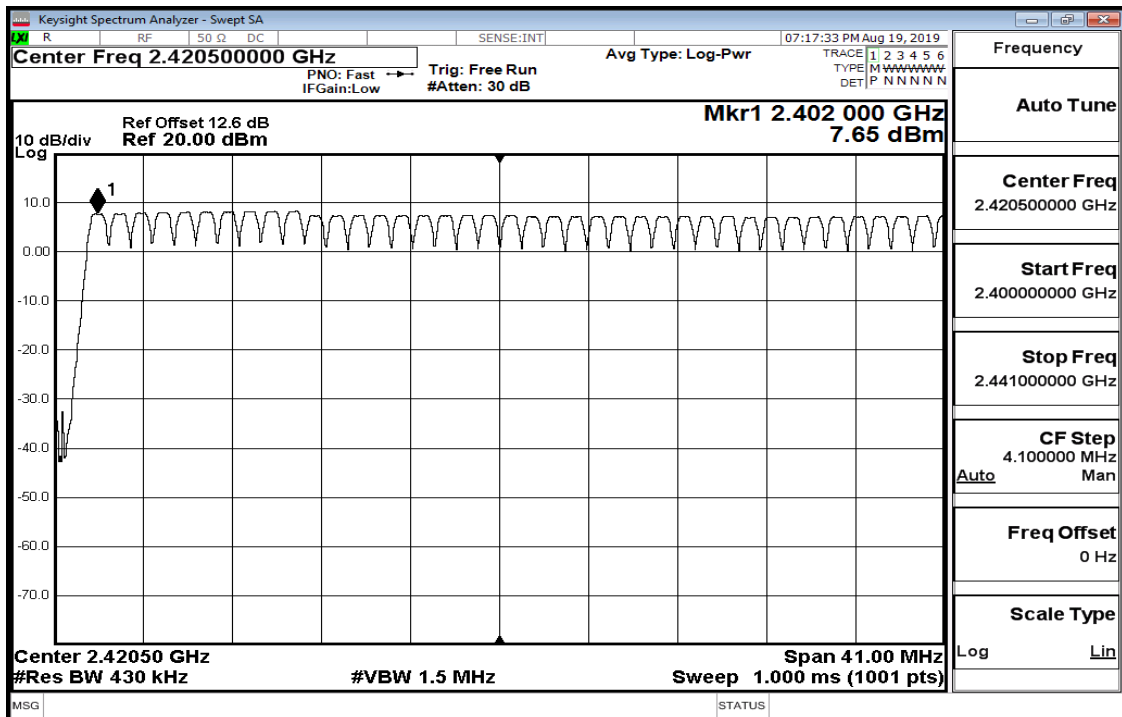
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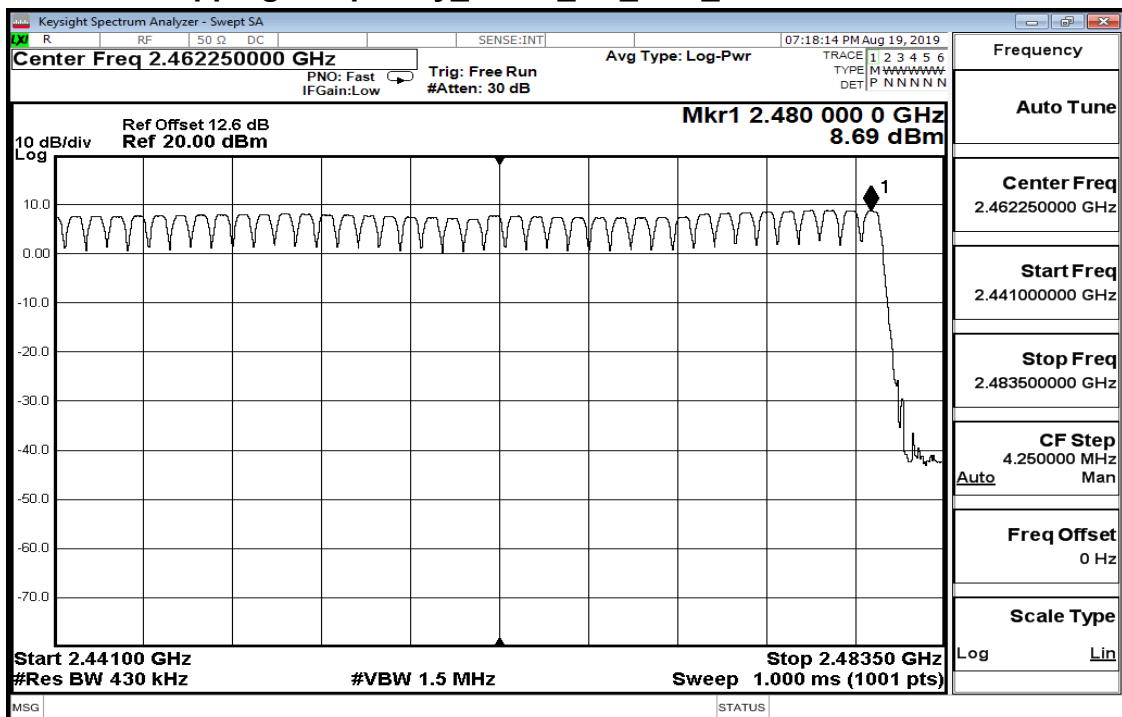
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Channel Number

Hopping Frequency_GFSK_1M_DH5_2400-2441



Hopping Frequency_GFSK_1M_DH5_2441-2480



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13 TIME OF OCCUPANCY (DWELL TIME)

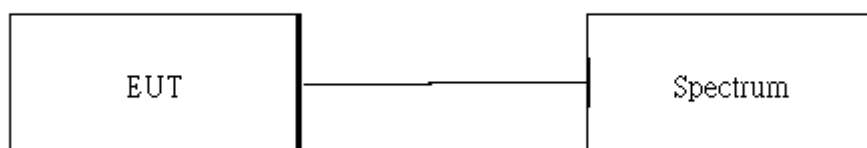
13.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

13.2 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

13.3 Test Set-up



13.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013. Measurement Guidelines.
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 center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz , Detector = Peak, Adjust Sweep = 2~8ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

Formula Deduced: time occupancy of one time slot X Hopping rate / total slot in one channel / total channel that hops X period of working channels.

Where, standard hopping rate is 1600 hops/s, slot in one channel for DH1, DH3, and DH5 is 2, 4, and 6, respectively.

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DH1 consists of single time slot of the uplink, and one slot of the downlink Total Slot: 2

DH3 consists of three time slot of the uplink, and one slot of the downlink. Total Slot: 4

DH5 consists of five time slot of the uplink, and one slot of the downlink. Total Slot: 6

In AFH mode, hopping rate is 800 hop/s with 6 slots in 20 hopping channels with channel hopping rate $(800 / 6 / 20)$ in Occupancy Time Limit $(0.4 * 20)$ (S), Hop Over Occupancy Time comes to $(800 / 6 / 20) * (0.4 * 20) = 53.33$

Note: the result of the complete test default channel at 1Mbps is recorded on the test report, 2Mbps, and 3Mbps only records the measurement result at middle channel that reveals no much deviation.

13.5 Tabular Result of the Measurement

GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	1/T (kHz)	VBW setting (kHz)
Low	DH1	123.20	400ms	2.60	3.00
	DH3	260.80	400ms	0.61	1.00
	DH5	307.20	400ms	0.35	1.00
Mid	DH1	121.60	400ms	2.63	3.00
	DH3	262.40	400ms	0.61	1.00
	DH5	307.20	400ms	0.35	1.00
High	DH1	123.20	400ms	2.60	3.00
	DH3	262.40	400ms	0.61	1.00
	DH5	308.80	400ms	0.00	1.00

$\pi/4$ DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	1/T (kHz)	VBW setting (kHz)
Mid	2DH1	124.80	400ms	2.56	3.00
	2DH3	262.40	400ms	0.61	1.00
	2DH5	308.80	400ms	0.35	1.00

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8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	1/T (kHz)	VBW setting (kHz)
Mid	3DH1	124.80	400ms	2.56	3.00
	3DH3	262.40	400ms	0.61	1.00
	3DH5	307.20	400ms	0.35	1.00

A period time = 0.4 (s) * 79 = 31.6 (s)

GFSK (1Mbps):

CH Low	DH1 time slot =	0.385	*	(1600/2/79)	*	31.6	=	123.20	(ms)
	DH3 time slot =	1.630	*	(1600/4/79)	*	31.6	=	260.80	(ms)
	DH5 time slot =	2.880	*	(1600/6/79)	*	31.6	=	307.20	(ms)
CH Mid	DH1 time slot =	0.380	*	(1600/2/79)	*	31.6	=	121.60	(ms)
	DH3 time slot =	1.640	*	(1600/4/79)	*	31.6	=	262.40	(ms)
	DH5 time slot =	2.880	*	(1600/6/79)	*	31.6	=	307.20	(ms)
CH High	DH1 time slot =	0.385	*	(1600/2/79)	*	31.6	=	123.20	(ms)
	DH3 time slot =	1.640	*	(1600/4/79)	*	31.6	=	262.40	(ms)
	DH5 time slot =	2.895	*	(1600/6/79)	*	31.6	=	308.80	(ms)

$\pi/4$ -DQPSK (2Mbps):

CH Mid	2DH1 time slot =	0.390	*	(1600/2/79)	*	31.6	=	124.80	(ms)
	2DH3 time slot =	1.640	*	(1600/4/79)	*	31.6	=	262.40	(ms)
	2DH5 time slot =	2.895	*	(1600/6/79)	*	31.6	=	308.80	(ms)

8-DPSK (3Mbps):

CH Mid	3DH1 time slot =	0.390	*	(1600/2/79)	*	31.6	=	124.80	(ms)
	3DH3 time slot =	1.640	*	(1600/4/79)	*	31.6	=	262.40	(ms)
	3DH5 time slot =	2.880	*	(1600/6/79)	*	31.6	=	307.20	(ms)

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GFSK (1Mbps) for AFH Mode			
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)
20	DH5	154.40	400ms
$\pi/4$ DQPSK (2Mbps) for AFH Mode			
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)
20	2DH5	154.40	400ms
8-DPSK (3Mbps) for AFH Mode			
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)
20	3DH5	153.60	400ms

GFSK (1Mbps):

DH5 time sl = 2.895 (ms) * (800/6/20)' * 8 = 154.40 (ms)

$\pi/4$ -DQPSK (2Mbps)

2DH5 time := 2.895 (ms) * (800/6/20)' * 8 = 154.40 (ms)

8-DPSK (3Mbps):

3DH5 time := 2.880 (ms) * (800/6/20)' * 8 = 153.60 (ms)

13.6 Measurement Result

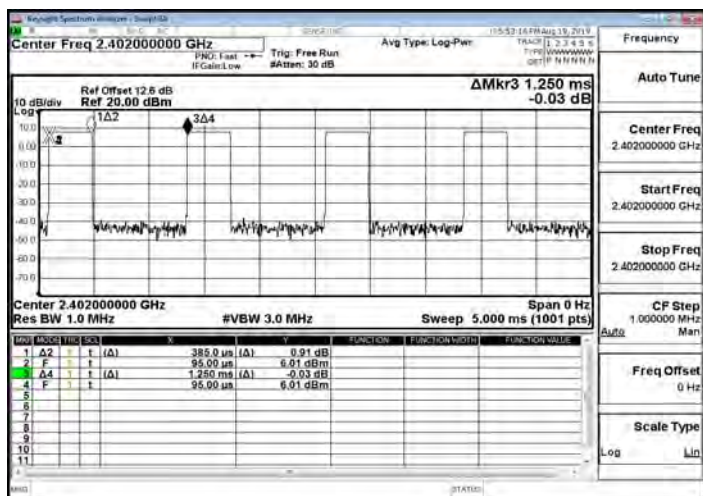
Note: Refer to next page for plots.

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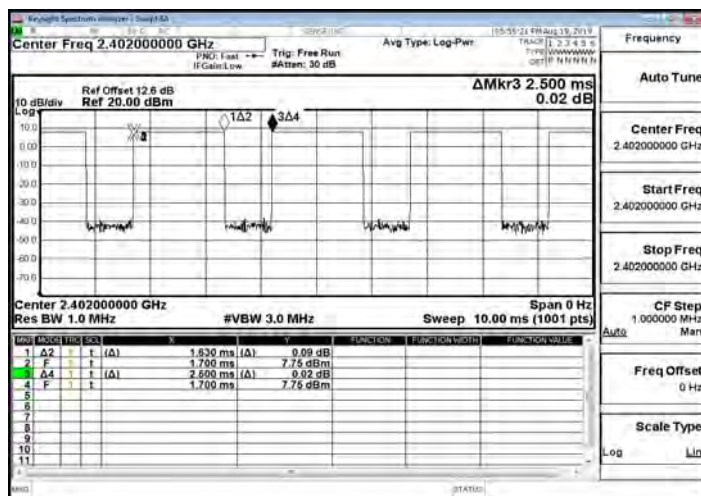
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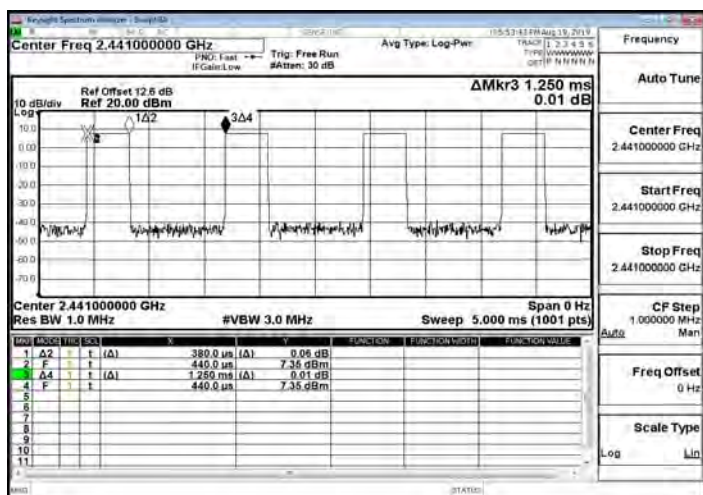
Dwell Time_GFSK_1M_DH1_2402MHz



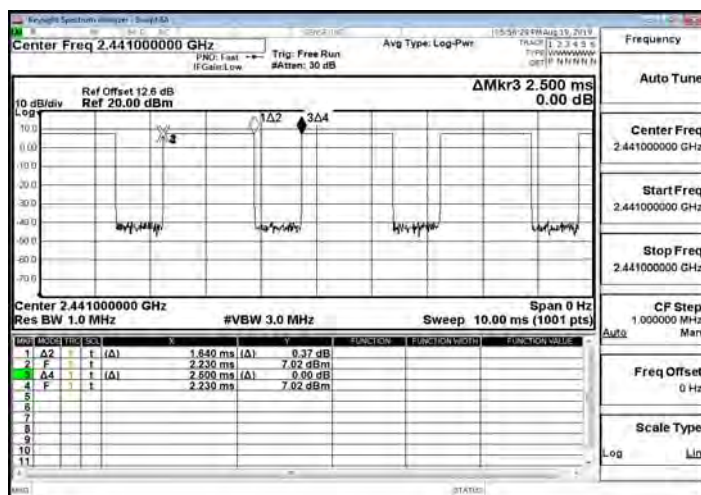
Dwell Time_GFSK_1M_DH3_2402MHz



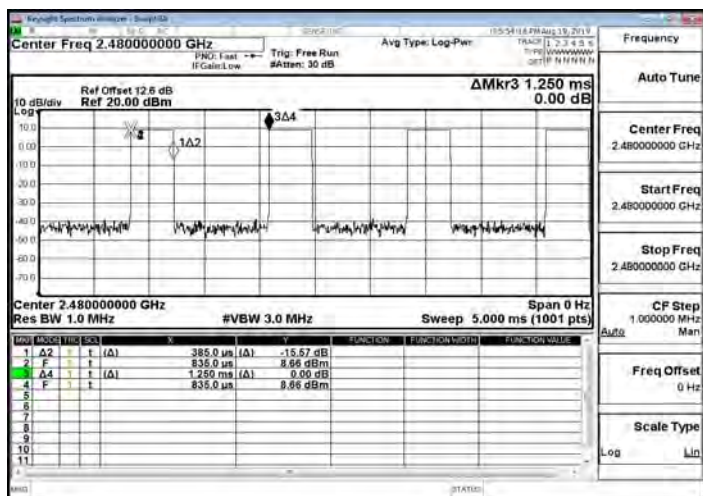
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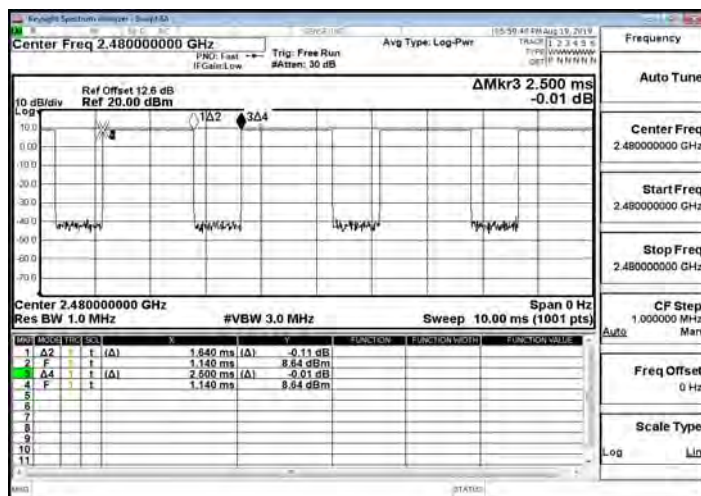
Dwell Time_GFSK_1M_DH3_2441MHz



Dwell Time_GFSK_1M_DH1_2480MHz



Dwell Time_GFSK_1M_DH3_2480MHz

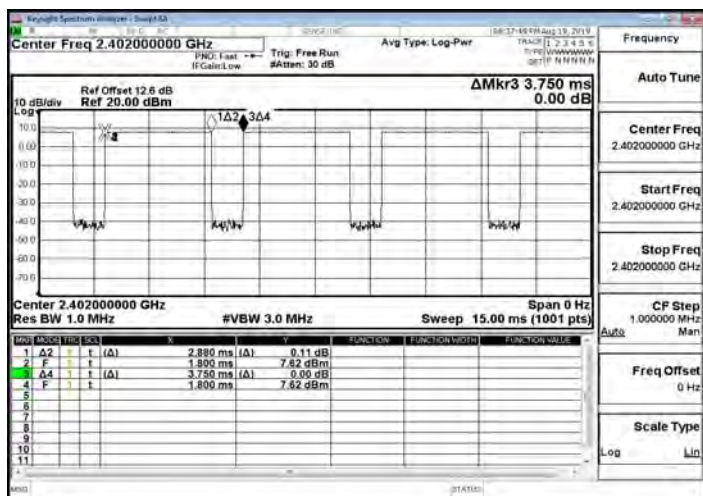


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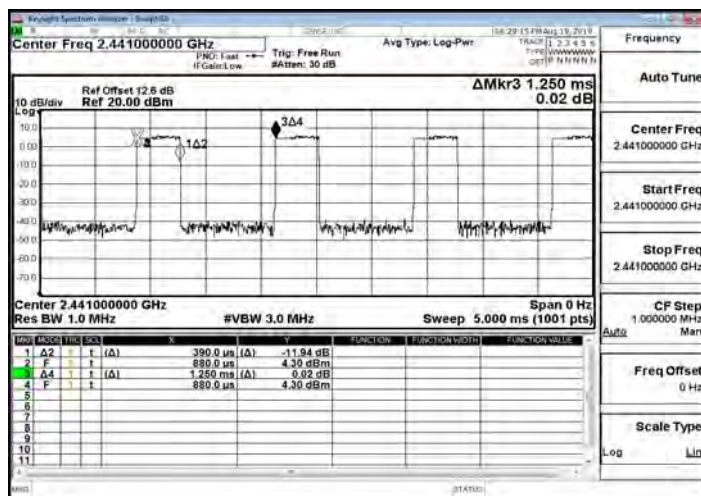
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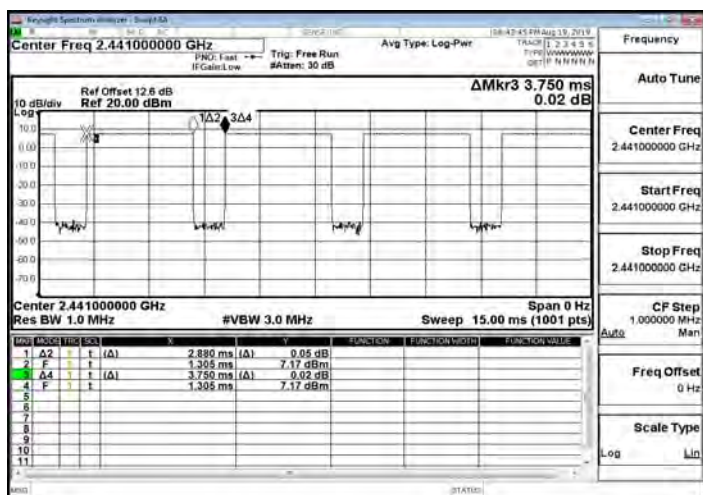
Dwell Time_GFSK_1M_DH5_2402MHz



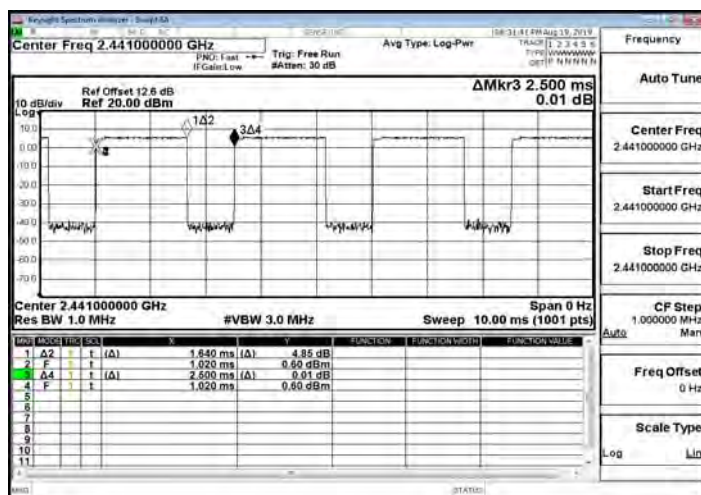
Dwell Time_π/4DQPSK_2M_DH1_2441MHz



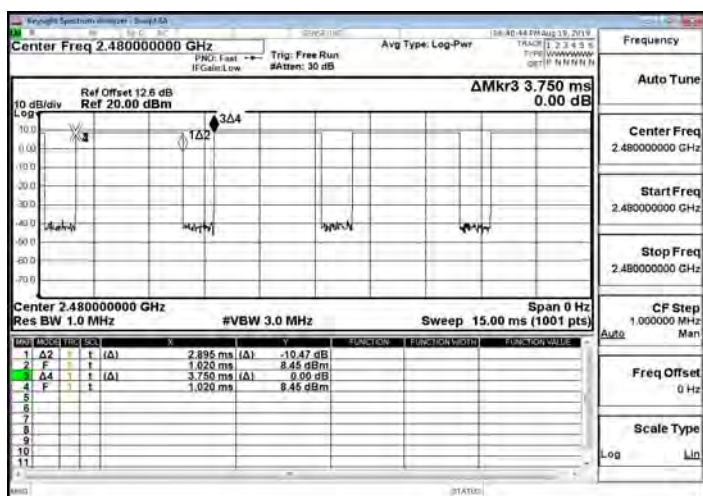
Dwell Time_GFSK_1M_DH5_2441MHz



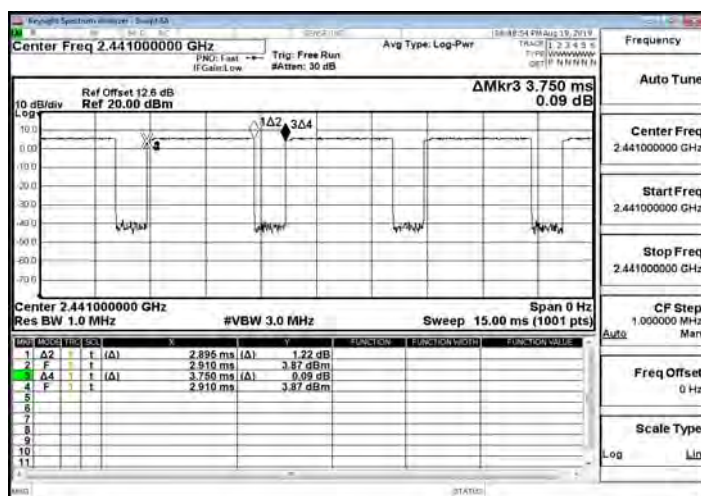
Dwell Time_π/4DQPSK_2M_DH3_2441MHz



Dwell Time_GFSK_1M_DH5_2480MHz



Dwell Time_π/4DQPSK_2M_DH5_2441MHz

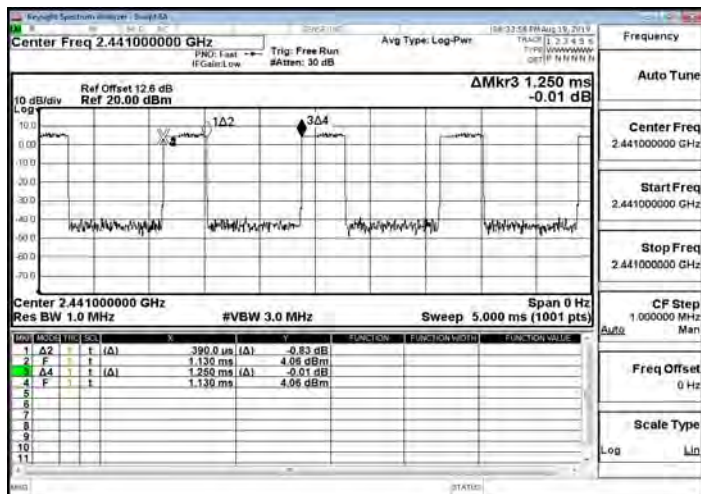


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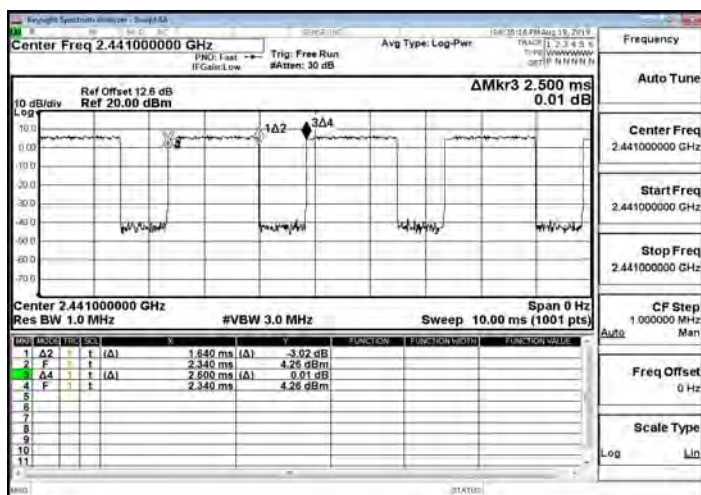
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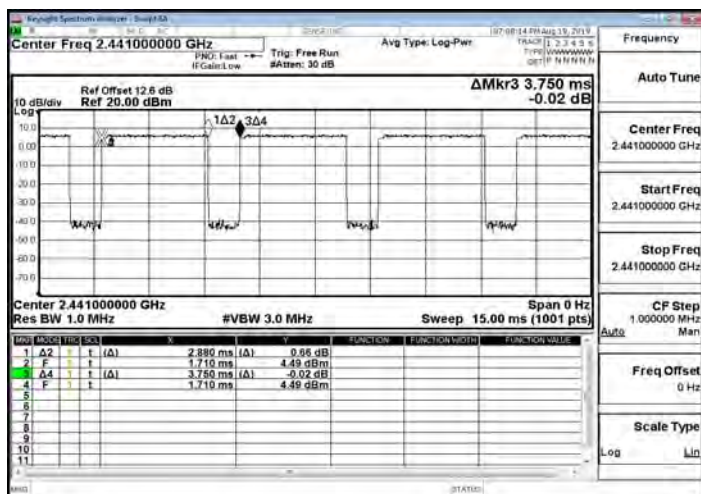
Dwell Time_8DPSK_3M_DH1_2441MHz



Dwell Time_8DPSK_3M_DH3_2441MHz



Dwell Time_8DPSK_3M_DH5_2441MHz



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14 ANTENNA REQUIREMENT

14.1 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.

14.2 Antenna Connected Construction

An embedded-in antenna design is used.

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

~ End of Report ~

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