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Report No.: FCC10-RTE070703

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FCC REPORT

Application No.: FCC10-RTE06252RF
Applicant: ARCHOS S.A.
Address of Applicant: 12 Rue Ampere ZI 91430 Igny, France
FCC ID: SOV8200
Fundamental Carrier Frequency : 2.402GHz to 2.480GHz
Equipment Under Test (EUT):
EUT Name: A 32 Internet Tablet
Item No.: 8200
Serial No.: Not supplied by client
Standards: FCC PART 15 Subpart C: 2008
Date of Receipt: 25 June. 2010
Date of Test: 28 June. 2010 to 05 July. 2010
Date of Issue: 07 July. 2010

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Kavin Yu
Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of EBO Technology Approvals or testing done by EBO Technology Approvals in connection with, distribution or use of the product described in this report must be approved by EBO Technology Approvals in writing. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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1 Test Summary

Test	Test Requirement	Standard Paragraph	Result
Conducted Emissions	FCC PART 15:2008	Section 15.207	PASS
Radiated Emission	FCC PART 15:2008	Section 15.205/15.209	PASS
Maximum Peak Output Power	FCC PART 15:2008	Section 15.247 (b)	PASS
20dB Occupied Bandwidth	FCC PART 15:2008	Section 15.247 (a)(1)	PASS
Carrier Frequency Separation	FCC PART 15:2008	Section 15.247 (a)(1)	PASS
Number of Hopping Frequencies	FCC PART 15:2008	Section 15.247 (a)(1)(iii)	PASS
Time of Occupancy	FCC PART 15:2008	Section 15.247 (a)(1)(iii)	PASS
Band Edges and Conducted Spurious Emissions	FCC PART 15:2008	Section 15.247(d)	PASS
Antenna requirement.	FCC PART 15:2008	Section 15.247 (b)	PASS
RF Exposure Compliance Requirement	FCC PART 15:2008	15.247(b)(4)& 1) c) D01 Mobile Portable RF Exposure v04	PASS

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3 General Information

3.1 Client Information

Applicant: ARCHOS S.A.
Address of Applicant: 12 Rue Ampere ZI 91430 Igny, France

3.2 General Description of E.U.T.

Equipment Under Test: Wireless Data Transmission (Bluetooth)
Trade Name: ARCHOS
Type Designation: A32 Internet tablet
Model Number: 8200
Type of modulation: GFSK, Pi/4QPSK, 8DPSK
Number of Channels: 79
Operation Frequency: 2402 ~2480MHz
Antenna Designation: PCB Antenna
Antenna Gain: 0dBi
Power Supply: Lithium polymer battery 3.7V(The new battery be used during testing)

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Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2480
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2402	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2447	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

Note:

Regards to the frequency band over 10MHz, the lowest, middle and highest frequency of channel were selected to perform the test, and then shown on this report.

So the there channel as follow:

Lowest channel: 2402MHz

Middle channel: 2447MHz

Highest channel: 2480 MHz

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3.3 Test Supporting System Details

Equipment Name	Modle No.	Manufacturer	FCC Status
PC	M2700	Lenovo	DOC
Monitor	TFT1780PS	AOV	DOC
Printer	LaserJet P2014	HP	DOC
Keyboard	JME7053	Lenovo	DOC
Mouse	N/A	Lenovo	DOC

3.4 Test Location

All tests were sub-contracted to:

ATC Lab Co., Ltd (Guangdong, China).

205#, Yingfeng Building, Ronggu Rd,Foshan, Guangdong, China (528305)

Phone:0757-23612690

Fax:0757-23612537

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3.5 Test Facility

FCC-Registration No.: 415467

ATC Lab Co., Ltd (Guangdong, China) EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 415467. Listing date October 10, 2008.

IC-Registration No.: 7949A

The 3m Alternate Test Site of ATC Lab Co., Ltd (Guangdong, China) has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7949A on Oct. 29th, 2008.

3.6 Measurement Uncertainty

of +/- 3×10^{-9} for Carrier Frequency Separation Measurement

of +/- 3×10^{-9} for Number of Hopping Frequencies Measurement

of +/- 3×10^{-9} for 20dB Bandwidth Measurement

of +/- 3×10^{-9} for Time of Occupancy (Dwell time) Measurement

of +/- 0.8 dB for Peak Output Power Measurement

of +/- 0.8 dB for Band Edge RF Conducted Measurement

of +/- 0.8 dB for Spurious RF Conducted Emission Measurement

of +/- 4.5 dB for Radiated Emissions

of +/- 2.3 dB for Conducted Emissions

3.7 Other Information Requested by the Customer

None

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4 Equipment Used during Test

Conducted Emission					
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Due Date
GAL-EMC002	Shielding Room	ETS	N/A	N/A	2011-05-18
GAL-EMC003	Receiver	SCHAFFNER	SMR4503	11725	2010-07-08
GAL-EMC005	Line impedance stabilization network	EMCO	4825/2	1161	2010-07-08
GAL-EMC098	Line impedance stabilization network	EMCO	3810/2	2516	2010-07-08
RF in Chamber					
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Due Date
GAL-EMC001	Semi-anechoic Chamber	ETS	N/A	N/A	2011-05-25
GAL-EMC003	Receiver	SCHAFFNER	SMR4503	11725	2010-07-08
GAL-EMC007	Double-ridged Wave guide horn	ETS	3115	6587	2010-08-02
GAL-EMC008	Microwave system amplifier (0.5G-26.5G)	Agilent	83017A	MY39500438	2010-07-08
GAL-EMC017	Biconilog Antenna	ETS	3142C	00042672	2010-09-26
GAL-EMC055	Band-pass Filter	Micro-Tronic	BRM50702	S/N-030	2010-11-09
GAL-EMC056	Spectrum Analyzer 9KHz-30GHz	R&S	FSP30	100755	2010-11-02
GAL-EMC075	Double-ridged Wave guide horn	ETS	3160	00052486	2010-08-02
RF Conducted					
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Due Date
GAL-EMC056	Spectrum Analyzer 9KHz-30GHz	R&S	FSP30	100755	2010-11-02
GAL-EMC100	ATC—Lab	N/A	N/A	N/A	2010-11-02

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5 Test Results

5.1 Conducted Emissions

Test Requirement: FCC Part15 B Section 15.207
Test Method: ANSI C63.4:2003
Test Date: 28 June.2010
Frequency Range: 150KHz to 30MHz
Detector: Peak for pre-scan (9 kHz resolution bandwidth)
Test Mode: Bluetooth mode (PC Active with the EUT in transmit mode)
Test Voltage: 120Vac,60Hz
Test Date: 28 June. 2010
Temperature: 23°C
Humidity: 51%

Limit:

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

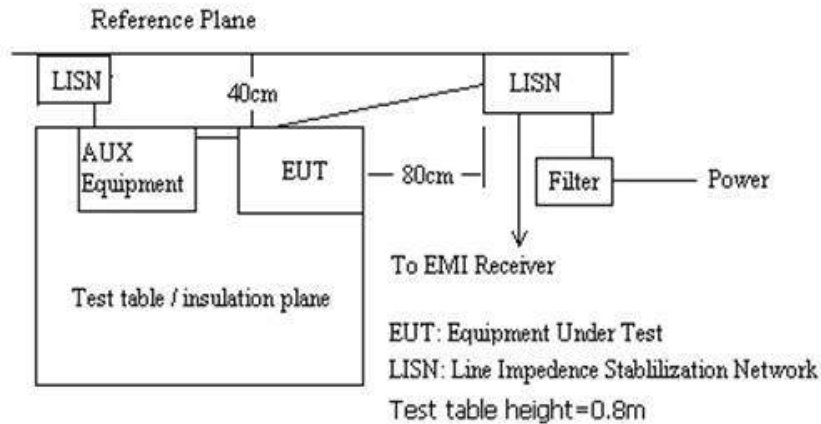
Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

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5.1.1 Test Setup



5.1.2 Test Procedure

The Device was connected to the artificial main network via PC (refer to section 3.3 for details), And test the EUT with activated in bluetooth receive mode and transmit mode.

5.1.3 Measurement Data

Measure the maximised peak emissions from the EUT for both the Live and Neutral Lines. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

PC Active with the EUT in transmit mode

Frequency (MHz)	Line	Measured QP (dBuV)	QP Limit (dBuV)	Measured AV (dBuV)	AV Limit (dBuV)	Over Limit QP	Over Limit AV
0.1500	L	44.90	65.92	36.20	55.92	-21.02	-19.72
0.2150	L	40.00	62.95	35.80	52.95	-22.95	-17.15
0.2900	L	32.50	60.49	25.10	50.49	-27.99	-25.39
2.4450	L	27.80	56.00	16.40	46.00	-28.20	-29.60
2.8050	L	28.00	56.00	16.60	46.00	-28.00	-29.40
29.6350	L	28.70	60.00	20.30	50.00	-31.30	-29.70
0.1550	N	38.90	65.65	12.60	55.65	-26.75	-43.05
0.2200	N	40.20	62.76	36.80	52.76	-22.56	-15.96
0.2900	N	31.10	60.49	23.60	50.49	-29.39	-26.89
2.0300	N	29.60	56.00	26.30	46.00	-26.40	-19.70
2.6100	N	29.60	56.00	24.20	46.00	-26.40	-21.80
21.1150	N	28.00	60.00	20.20	50.00	-32.00	-29.80

Test result: The unit does meet the FCC requirements.

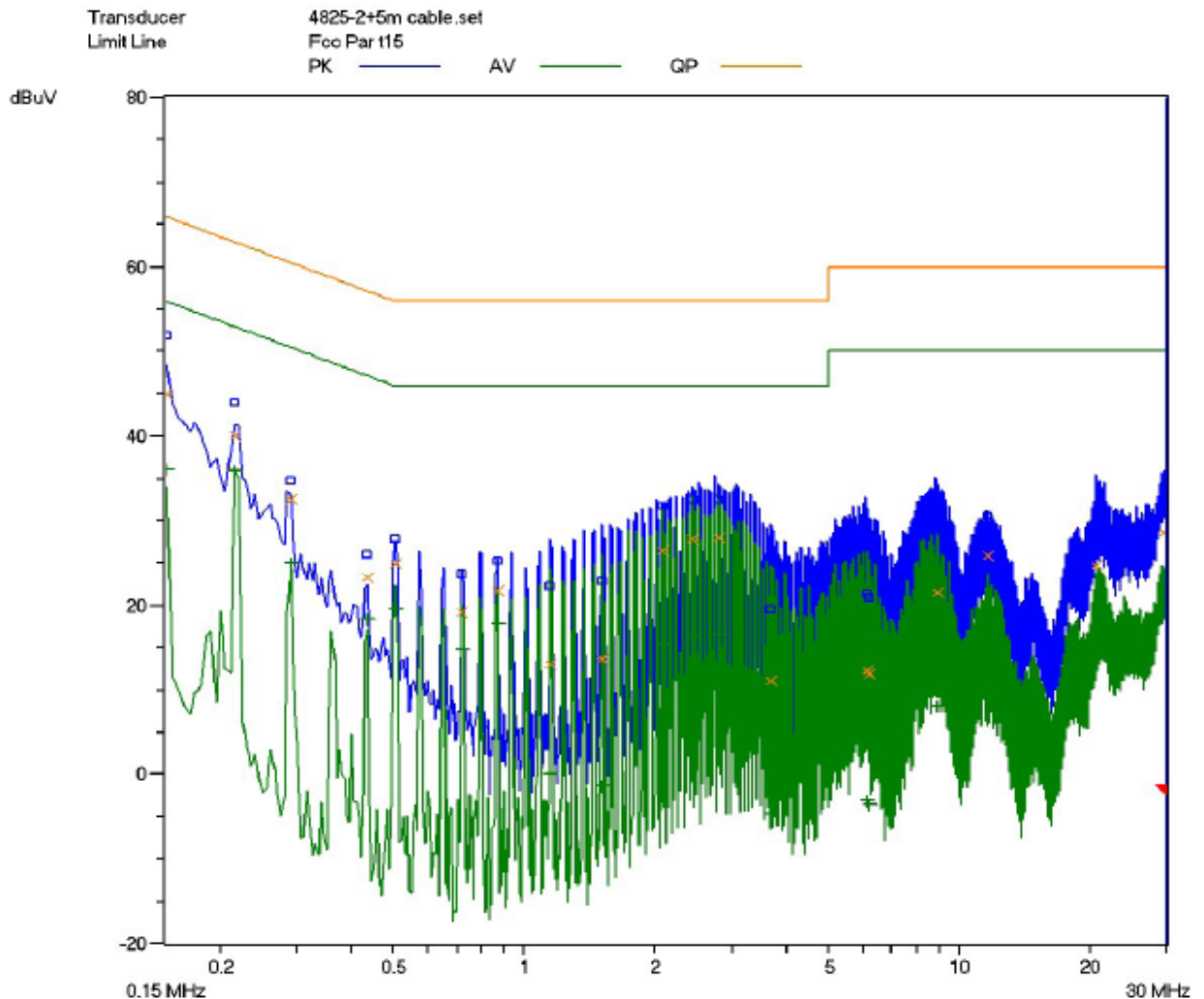
Test result plot as follows:

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Live Line

Frequency Range(s)	Range 1
Start Frequency	150 kHz
Stop Frequency	30 MHz
Step Frequency	5 kHz
Attenuator	Auto
Detector (Pre)	AV CISPR
IF Bandwidth (Pre)	9 kHz
Measure Time (Pre)	10 ms
Detector (Final)	QP
IF Bandwidth (Final)	9 kHz
Measure Time (Final)	1 s
Sub Ranges (Final)	20



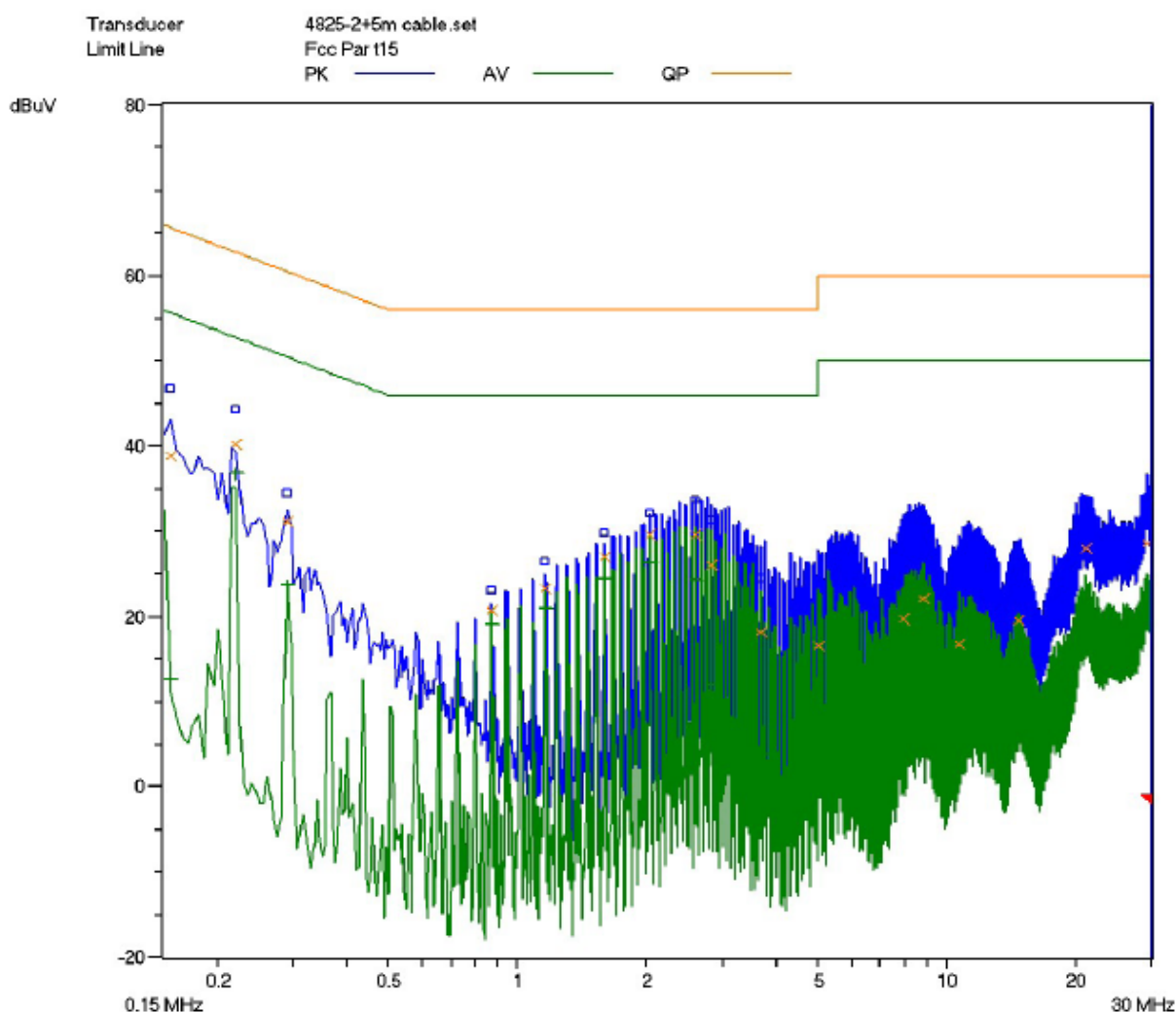
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Nuetral Line

Frequency Range(s)	Range 1
Start Frequency	150 kHz
Stop Frequency	30 MHz
Step Frequency	5 kHz
Attenuator	Auto
Detector (Pre)	AV CISPR
IF Bandwidth (Pre)	9 kHz
Measure Time (Pre)	10 ms
Detector (Final)	QP
IF Bandwidth (Final)	9 kHz
Measure Time (Final)	1 s
Sub Ranges (Final)	20



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5.2 Radiated Emissions

Test Requirement:	FCC Part15 C Section 15.247,15.209 and 15.205
Test Method:	ANSI C63.4:2003
Frequency Range:	30MHz to 25GHz
Receiver Setup:	QP Detector (RBW=120kHz,VBW=300kHz) for 30 to 1000 MHz RE testing Peak Detector(RBW=VBW=1MHz) for 1 to 25 GHz RE Peak value testing Peak Detector(RBW=1MHz, VBW=10Hz) for 1 to 25 GHz RE AV value testing
Test Mode:	Blue tooth transmit mode
Test Date:	28 June. 2010 to 30 June. 2010
Temperature:	23°C
Humidity:	53%

15.209 Limit:

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of Emission (MHz)	Field Strength	
	(microvolts/meter)	dB (μV/m)
30 - 88	100	40(QP)
88 - 216	150	43.5(QP)
216 - 960	200	46(QP)
960-1000	500	54(QP)
Above 1000	500	54(AV) 74(PK)

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5.2.1 Test Setup

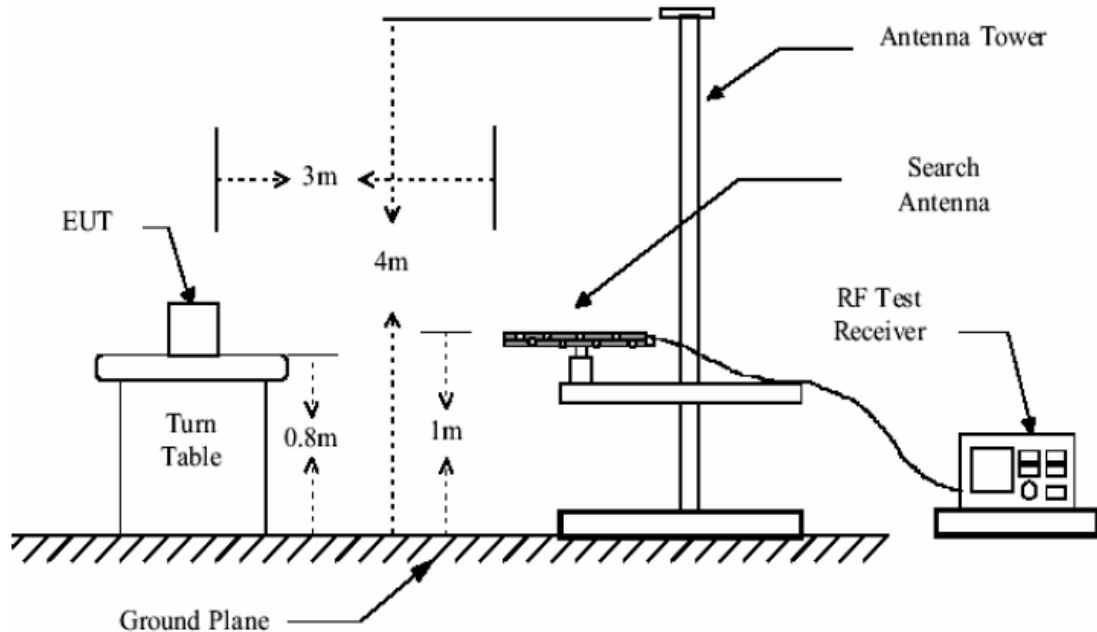


Figure1: 30MHz to 1GHz radiated emissions test setup

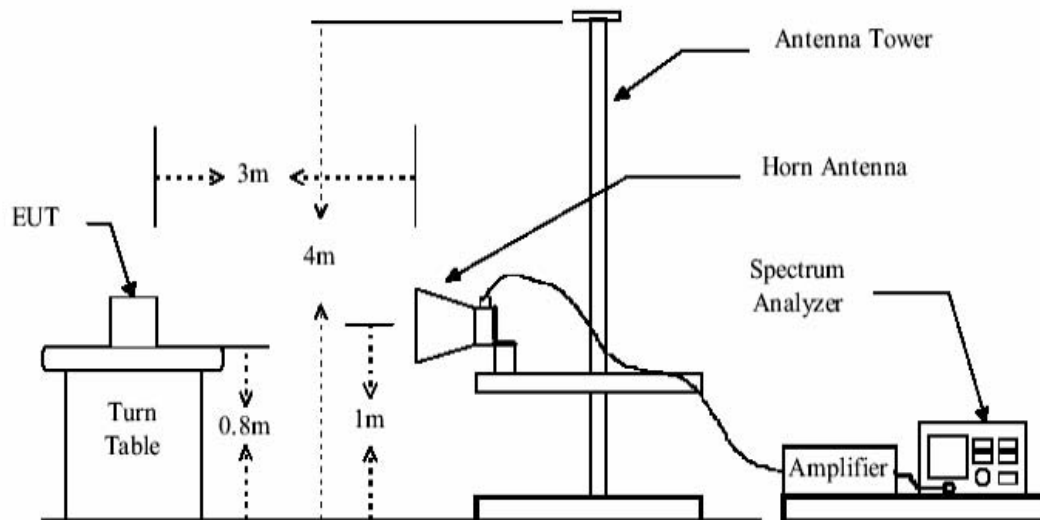


Figure 2: Above 1GHz radiated emissions test setup

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5.2.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until all frequency measured were complete.

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain 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

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5.2.3 Measurement Data

Radiated Emission below 1GHz

Pre-scan the EUT in GFSK, Pi/4QPSK and 8DPSK modes and find out the worst case is GFSK mode.

Frequency (MHz)	Antenna Polarity	Reading (dBuV/m)	Ant./CL/ Amp.CF (dB)	Measured Level (dBuV/m)	QP Limit (dBuV/m)	Over Limit(dB)	Pass /Fail
37.520	H	-4.37	18.77	14.40	40.00	-25.60	Pass
100.200	H	11.29	8.41	19.70	43.50	-23.80	Pass
582.320	H	-6.11	20.61	14.50	46.00	-31.50	Pass
739.840	H	-5.09	23.89	18.80	46.00	-27.20	Pass
806.320	H	-5.39	24.59	19.20	46.00	-26.80	Pass
957.520	H	-5.14	26.74	21.60	46.00	-24.40	Pass
37.360	V	-3.67	18.77	15.10	40.00	-24.90	Pass
589.200	V	-6.11	20.91	14.80	46.00	-31.20	Pass
634.320	V	-4.00	22.30	18.30	46.00	-27.70	Pass
820.320	V	-5.42	24.72	19.30	46.00	-26.70	Pass
907.520	V	-5.74	26.04	20.30	46.00	-25.70	Pass
949.120	V	-5.34	26.74	21.40	46.00	-24.60	Pass

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Radiated Emission Above 1GHz

Pre-scan the EUT in GFSK, Pi/4QPSK and 8DPSK modes and find out the worst case is GFSK mode.

Transmitting mode (Lowest channel=2402MHz)

Peak Measurement

Frequency (MHz)	Antenna Polarity	Reading (dBuV/m)	Ant./CL/ Amp.CF (dB)	Measured Level (dBuV/m)	PK Limit (dBuV/m)	Over Limit(dB)	Pass /Fail
1068.000	H	45.51	-3.00	42.51	74.00	-31.49	Pass
4804.000	H	40.70	6.10	46.80	74.00	-27.20	Pass
7206.000	H	42.03	11.80	53.83	74.00	-20.17	Pass
9608.000	H	41.48	14.92	56.40	74.00	-17.60	Pass
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1068.000	V	46.80	-3.00	43.80	74.00	-30.20	Pass
4804.000	V	45.53	6.10	51.63	74.00	-22.37	Pass
7206.000	V	46.45	11.80	58.25	74.00	-15.75	Pass
9608.000	V	46.78	14.92	61.70	74.00	-12.30	Pass
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Average Measurement

Frequency (MHz)	Antenna Polarity	Reading (dBuV/m)	Ant./CL/ Amp.CF (dB)	Measured Level (dBuV/m)	AV Limit (dBuV/m)	Over Limit(dB)	Pass /Fail
1068.000	H	33.14	-3.00	30.14	54.00	-23.86	Pass
4804.000	H	30.46	6.10	36.56	54.00	-17.44	Pass
7206.000	H	29.09	11.80	40.89	54.00	-13.11	Pass
9608.000	H	28.78	14.92	43.70	54.00	-10.30	Pass
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1068.000	V	32.56	-3.00	29.56	54.00	-24.44	Pass
4804.000	V	31.24	6.10	37.34	54.00	-16.66	Pass
7206.000	V	29.25	11.80	41.05	54.00	-12.95	Pass
9608.000	V	29.10	14.92	44.02	54.00	-9.98	Pass
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

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Transmitting mode (Middle channel=2447MHz)

Peak Measurement

Frequency (MHz)	Antenna Polarity	Reading (dBuV/m)	Ant./CL/ Amp.CF (dB)	Measured Level (dBuV/m)	PK Limit (dBuV/m)	Over Limit(dB)	Pass /Fail
1102.000	H	45.56	-3.00	42.56	74.00	-31.44	Pass
4894.000	H	41.99	6.10	48.09	74.00	-25.91	Pass
7341.000	H	41.66	11.92	53.58	74.00	-20.42	Pass
9788.000	H	42.15	15.30	57.45	74.00	-16.55	Pass
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1102.000	V	46.23	-3.00	43.23	74.00	-30.77	Pass
4894.000	V	44.72	6.10	50.82	74.00	-23.18	Pass
7341.000	V	43.89	11.92	55.81	74.00	-18.19	Pass
9788.000	V	43.21	15.30	58.51	74.00	-15.49	Pass
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Average Measurement

Frequency (MHz)	Antenna Polarity	Reading (dBuV/m)	Ant./CL/ Amp.CF (dB)	Measured Level (dBuV/m)	AV Limit (dBuV/m)	Over Limit(dB)	Pass /Fail
1068.000	H	33.32	-3.00	30.32	54.00	-23.68	Pass
4894.000	H	30.60	6.10	36.70	54.00	-17.30	Pass
7341.000	H	28.75	11.92	40.67	54.00	-13.33	Pass
9788.000	H	29.27	15.30	44.57	54.00	-9.43	Pass
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1102.000	V	34.52	-3.00	31.52	54.00	-22.48	Pass
4894.000	V	30.21	6.10	36.31	54.00	-17.69	Pass
7341.000	V	29.46	11.92	41.38	54.00	-12.62	Pass
9788.000	V	29.32	15.30	44.62	54.00	-9.38	Pass
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

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Transmitting mode (Highest channel=2480MHz)

Peak Measurement

Frequency (MHz)	Antenna Polarity	Reading (dBuV/m)	Ant./CL/ Amp.CF (dB)	Measured Level (dBuV/m)	PK Limit (dBuV/m)	Over Limit(dB)	Pass /Fail
2360.000	H	45.35	-0.60	44.75	74.00	-29.25	Pass
4960.000	H	44.39	6.10	50.49	74.00	-23.51	Pass
7440.000	H	44.87	12.10	56.97	74.00	-17.03	Pass
9920.000	H	46.76	16.24	63.00	74.00	-11.00	Pass
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
2394.000	V	52.26	-0.60	51.66	74.00	-22.34	Pass
4960.000	V	45.53	6.10	51.63	74.00	-22.37	Pass
7440.000	V	46.45	12.10	58.55	74.00	-15.45	Pass
9920.000	V	46.78	16.24	63.02	74.00	-10.98	Pass
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Average Measurement

Frequency (MHz)	Antenna Polarity	Reading (dBuV/m)	Ant./CL/ Amp.CF (dB)	Measured Level (dBuV/m)	AV Limit (dBuV/m)	Over Limit(dB)	Pass /Fail
1170.000	H	33.15	-3.00	30.15	54.00	-23.85	Pass
4960.000	H	30.51	6.10	36.61	54.00	-17.39	Pass
7440.000	H	29.15	12.10	41.25	54.00	-12.75	Pass
9920.000	H	29.80	16.24	46.04	54.00	-7.96	Pass
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1102.000	V	34.09	-3.00	31.09	54.00	-22.91	Pass
4960.000	V	31.17	6.10	37.27	54.00	-16.73	Pass
7440.000	V	32.29	12.10	44.39	54.00	-9.61	Pass
9920.000	V	29.56	16.24	45.80	54.00	-8.20	Pass
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

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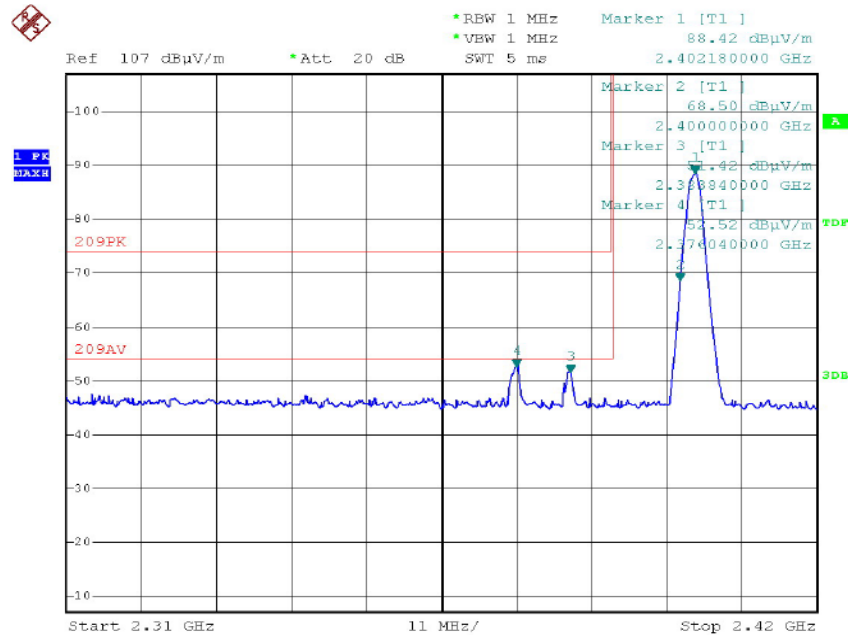


Band Edge and Restrictred band (Radiated measurement)

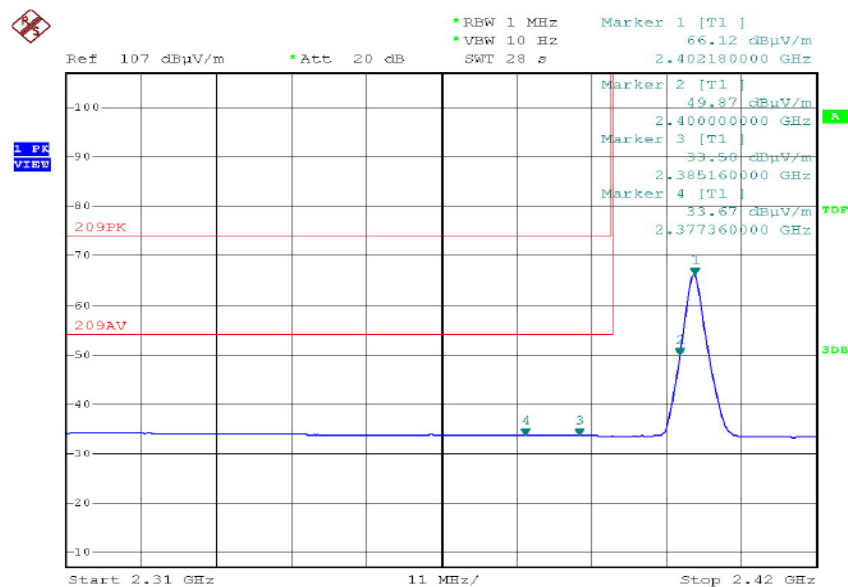
Pre-scan the EUT in GFSK, Pi/4QPSK and 8DPSK with transmitting mode and find out the worst case is 8DPSK mode in transmitting.

Transmitting with 8DPSK mode (Lowest channel=2402MHz)

Peak Measurement in Horizontal polarization



Average Measurement in Horizontal polarization



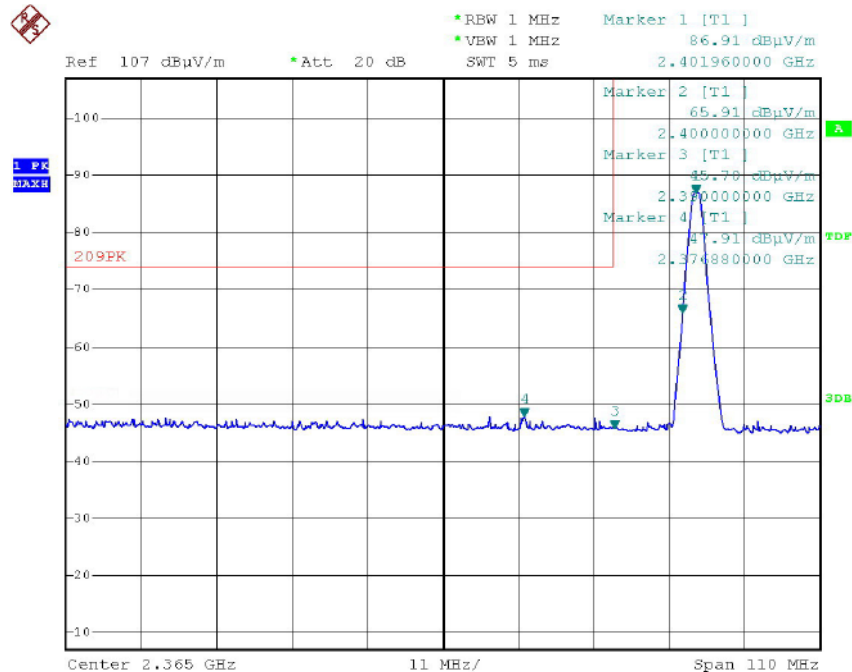
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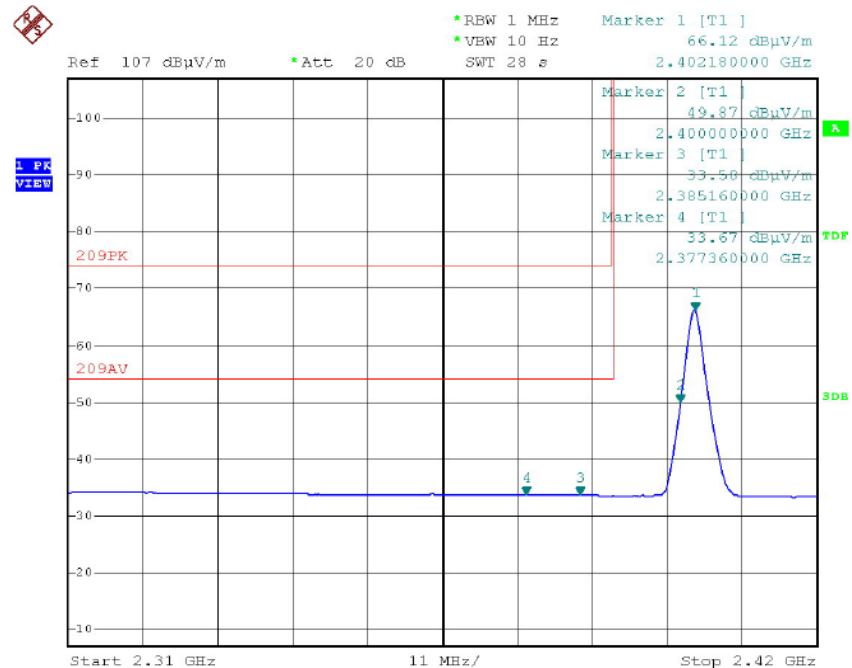


Transmitting with 8DPSK mode (Lowest channel=2402MHz)

Peak Measurement in Vertical polarization



Average Measurement in Vertical polarization



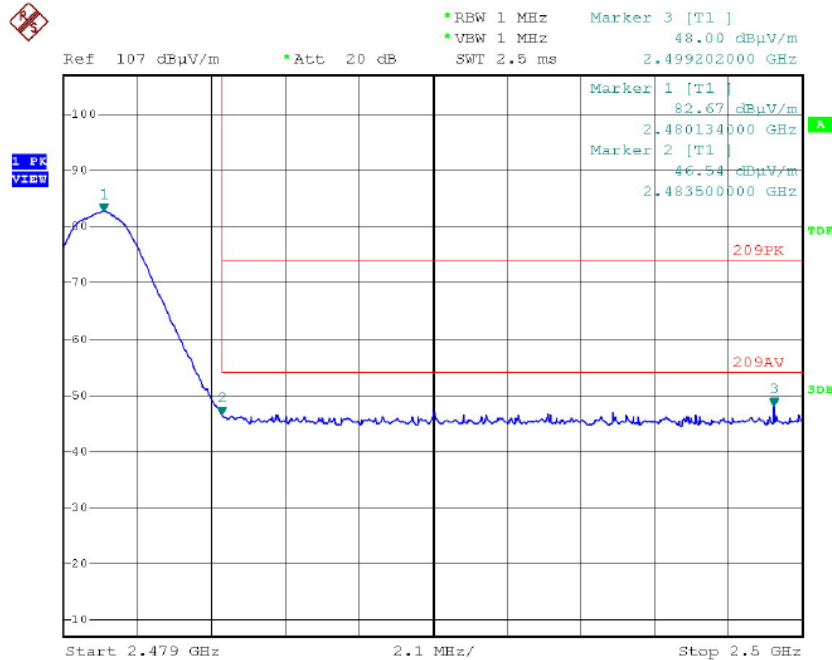
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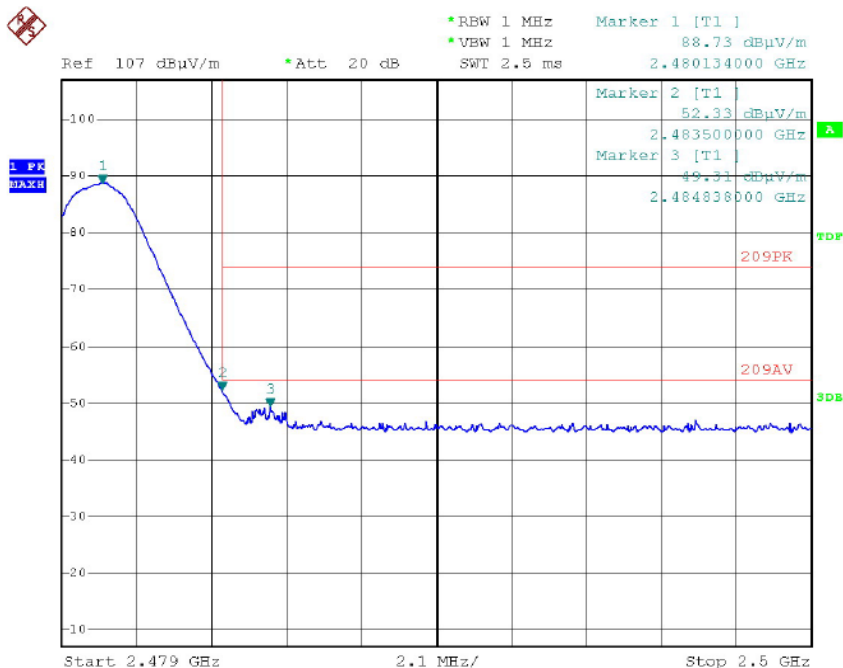


Transmitting with 8DPSK mode (Highest channel=2480MHz)

Peak Measurement in Horizontal polarization



Peak Measurement in Vertical polarization



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Remark 1:

No any other emissions level which are attenuated less than 20dB below the limit According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.

Remark 2:

- 1). As shown in Section, for frequencies above 1000 MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 2). The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.
- 3) Pre-Scan has been conducted to determine the worst-case mode from all possible Combinations between available modulations, data rates and antenna ports, and found the EUT worse case mode: 8DPSK modulation mode.
- 4) For this intentional radiator operates below 25 GHz. The spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the 4th harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 4th harmonic.

Remark 3:

Section 15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
10.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

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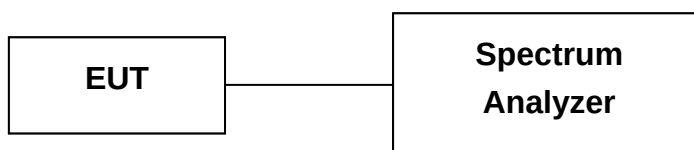
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5.3 Maximun Peak Output Power

Test Requirement:	FCC 15.247(b)
Test Method:	ANSI C63.4:2003 and KDB DA00-705.
Method of Measurement:	The EUT was setup to ANSI C63.4, 2003, tested to FHSS test procedure of KDB DA00-705 for compliance to FCC 47CFR 15.247 requirements.
Detector:	RBW=VBW=1 MHz (Peak detector)
Test Mode:	Bluetooth in transmit mode without hopping
Power Supply:	Lithium polymer battery 3.7V(The new battery be used during testing)
Test Date:	05 July. 2010
Temperature:	24℃
Humidity:	52%
Limit:	Regulation 15.247 (b) The Limit of Maximum Peak Output Power Measurement is 30dBm.

5.3.1 Test Setup



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5.3.2 Measurement Data

For EUT communicating with GFSK Mode

Chanel Frequency (GHz)	Peak Output Power(dBm)	Cable Loss (dB)	Power level(dBm)	Limit (dBm)	Over Limit (dB)
2.402	-3.62	0.5	-3.12	30.00	-33.12
2.447	-5.21	0.5	-4.71	30.00	-34.71
2.480	-7.44	0.5	-6.94	30.00	-36.94

For EUT communicating with Pi/4QPSK Mode

Chanel Frequency (GHz)	Peak Output Power(dBm)	Cable Loss (dB)	Power level(dBm)	Limit (dBm)	Over Limit (dB)
2.402	-3.15	0.5	-2.65	30.00	-32.65
2.447	-5.13	0.5	-4.63	30.00	-34.63
2.480	-7.64	0.5	-7.14	30.00	-37.14

For EUT communicating with 8DPSK Mode

Chanel Frequency (GHz)	Peak Output Power(dBm)	Cable Loss (dB)	Power level(dBm)	Limit (dBm)	Over Limit (dB)
2.402	-3.23	0.5	-2.73	30.00	-32.73
2.447	-5.20	0.5	-4.70	30.00	-34.70
2.480	-6.94	0.5	-6.44	30.00	-36.44

Test result: The unit does meet the FCC requirements.

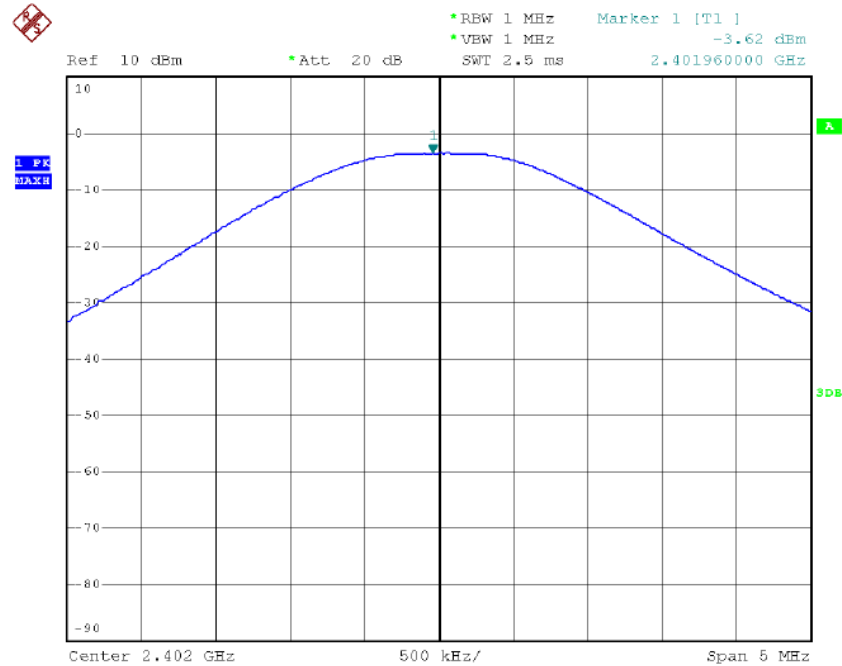
Test result plot as follows:

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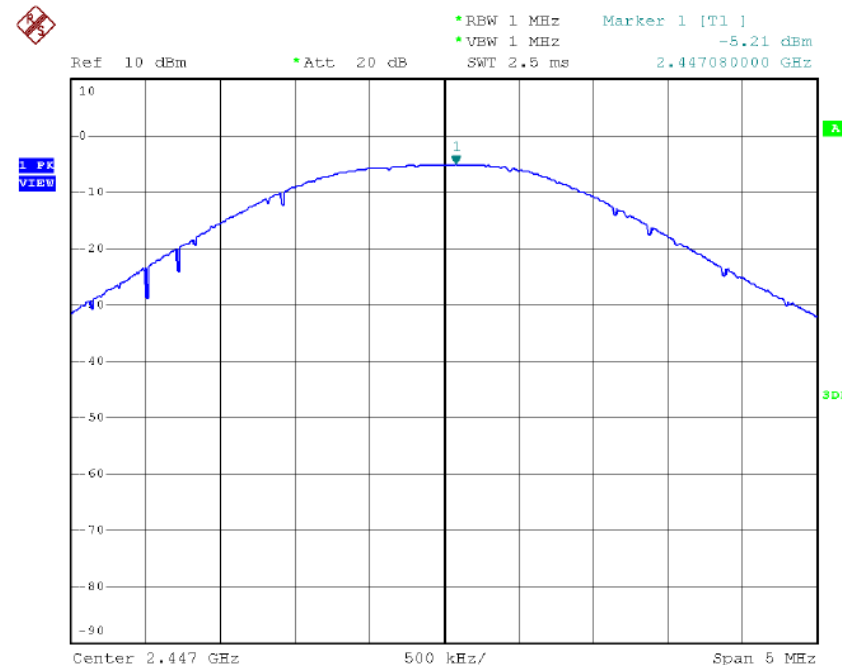
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The EUT communicating with GFSK Mode
Lowest channel=2402MHz



Middle channel=2447MHz

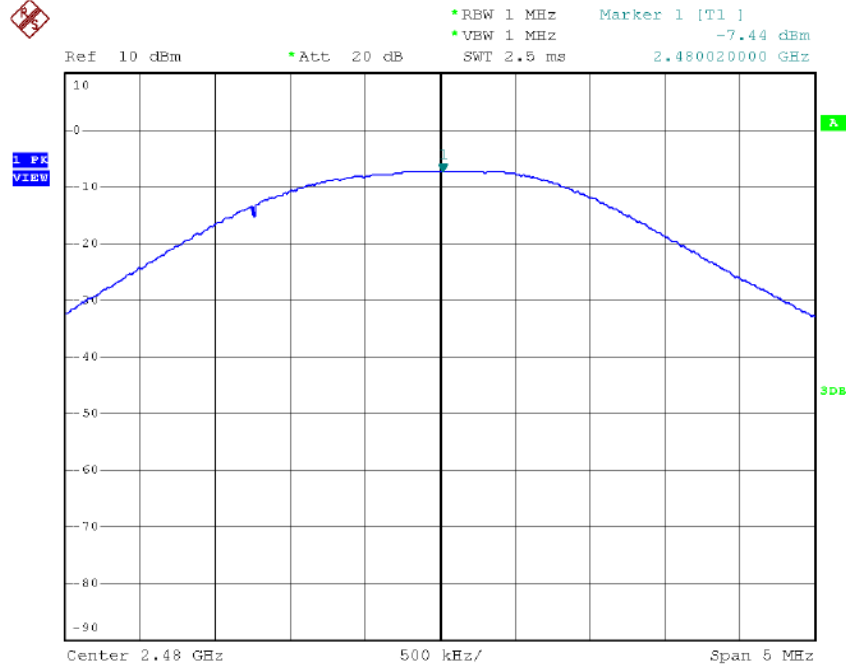


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Highest channel=2480MHz



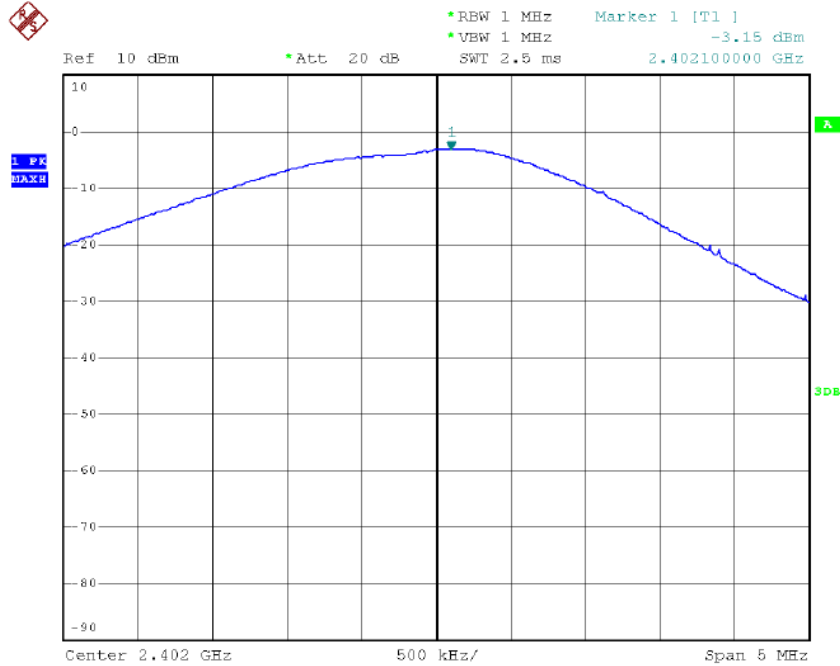
FCC ID: SOV 8200

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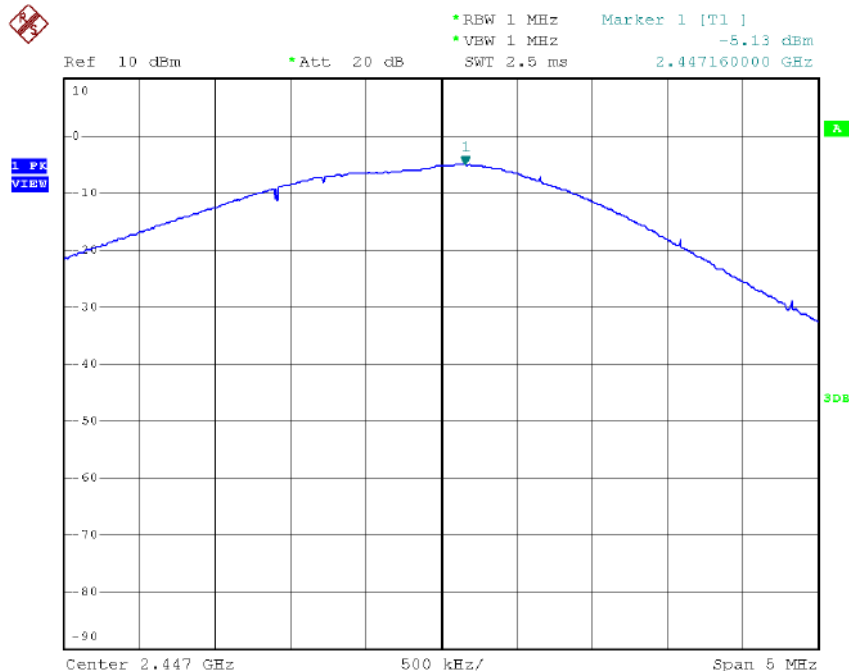


The EUT communicating with Pi/4QPSK Mode

Lowest channel=2402MHz



Middle channel=2447MHz

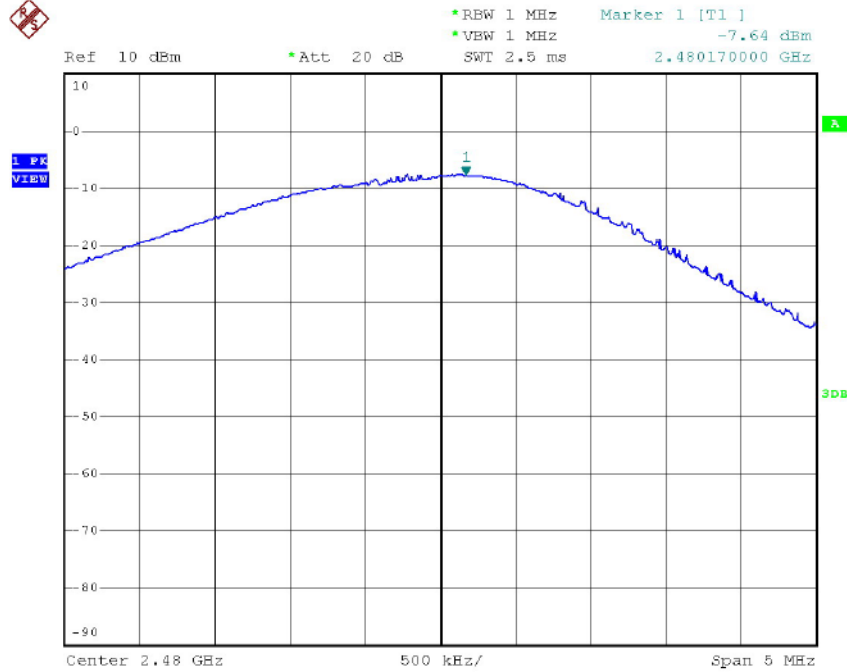


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Highest channel=2480MHz



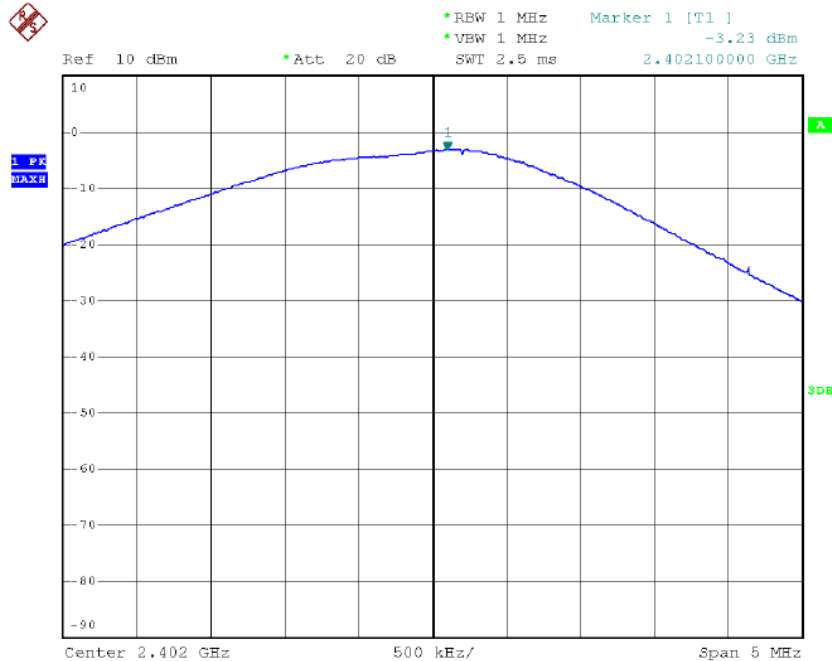
FCC ID: SOV 8200

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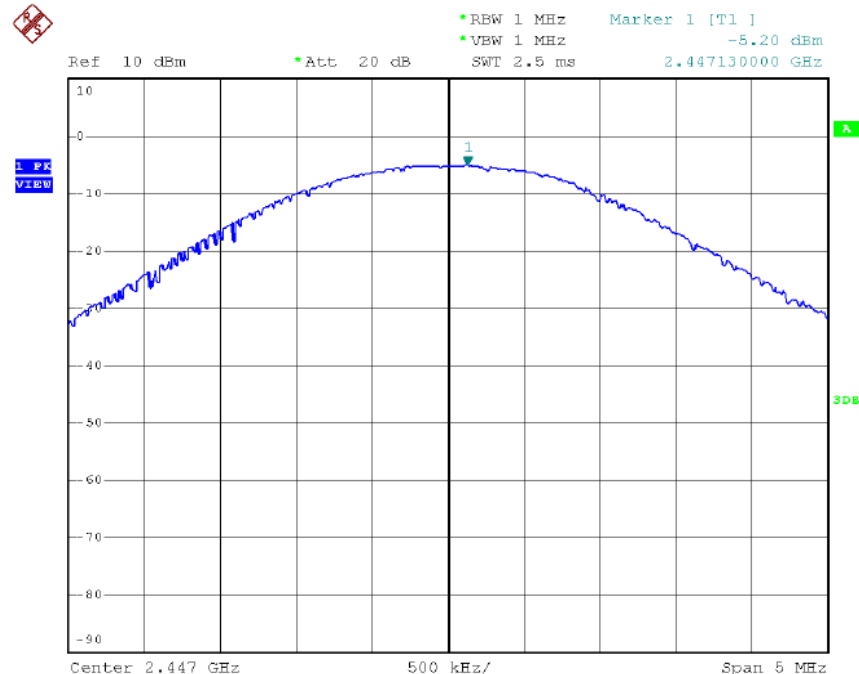


The EUT communicating with 8DPSK Mode

Lowest channel=2402MHz



Middle channel=2447MHz

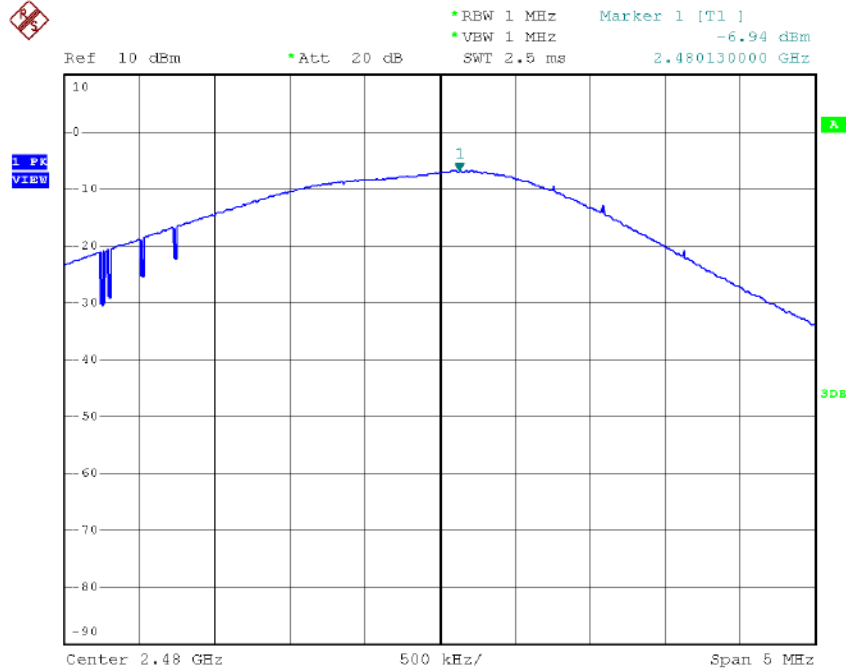


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Highest channel=2480MHz



FCC ID: SOV 8200

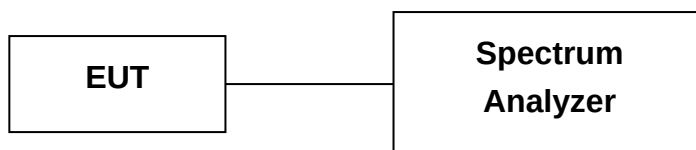
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5.4 20dB Occupied Bandwidth

Test Requirement:	FCC 15.247(b)
Test Method:	ANSI C63.4:2003 and KDB DA00-705.
Method of Measurement:	The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer. The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB. Analyzer and the attached plot were taken. The EUT was setup to ANSI C63.4, 2003, tested to FHSS test procedure of KDB DA00-705 for compliance with FCC 47CFR 15.247 requirements.
Detector:	RBW=VBW=100 kHz (Peak detector)
Test Mode:	Bluetooth in transmit mode without hopping
Test Date:	02 July. 2010
Temperature:	23°C
Humidity:	52%

5.4.1 Test Setup



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5.4.2 Measurement Data

For EUT communicating with GFSK Mode

Chanel Frequency (GHz)	20 dB Bandwidth (MHz)	Pass/Fail
2.402	1.068	Pass
2.447	1.264	Pass
2.480	1.284	Pass

For EUT communicating with Pi/4QPSK Mode

Chanel Frequency (GHz)	20 dB Bandwidth (MHz)	Pass/Fail
2.402	1.348	Pass
2.447	1.340	Pass
2.480	1.300	Pass

For EUT communicating with 8DPSK Mode

Chanel Frequency (GHz)	20 dB Bandwidth (MHz)	Pass/Fail
2.402	1.336	Pass
2.447	1.320	Pass
2.480	1.312	Pass

Test result: The unit does meet the FCC requirements.

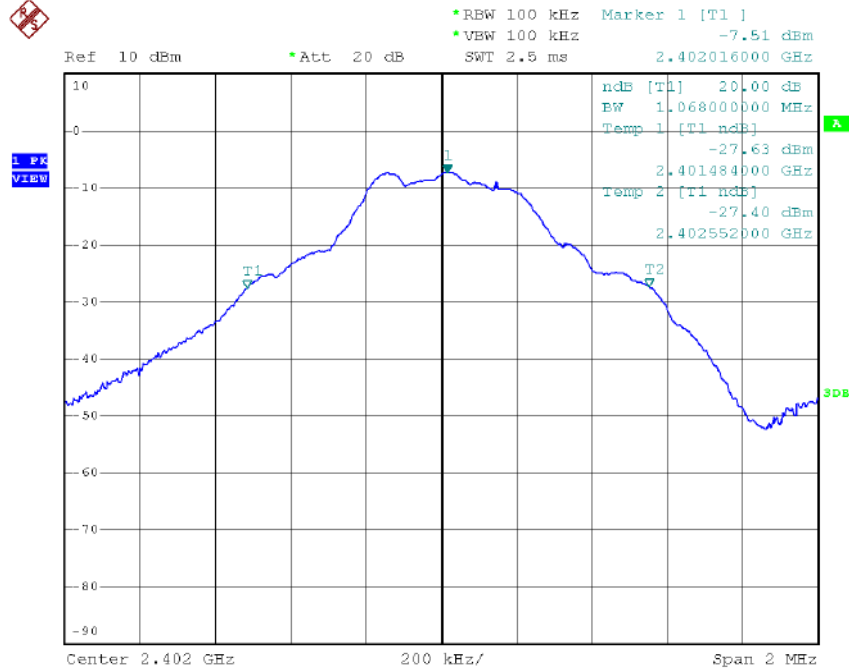
Test result plot as follows:

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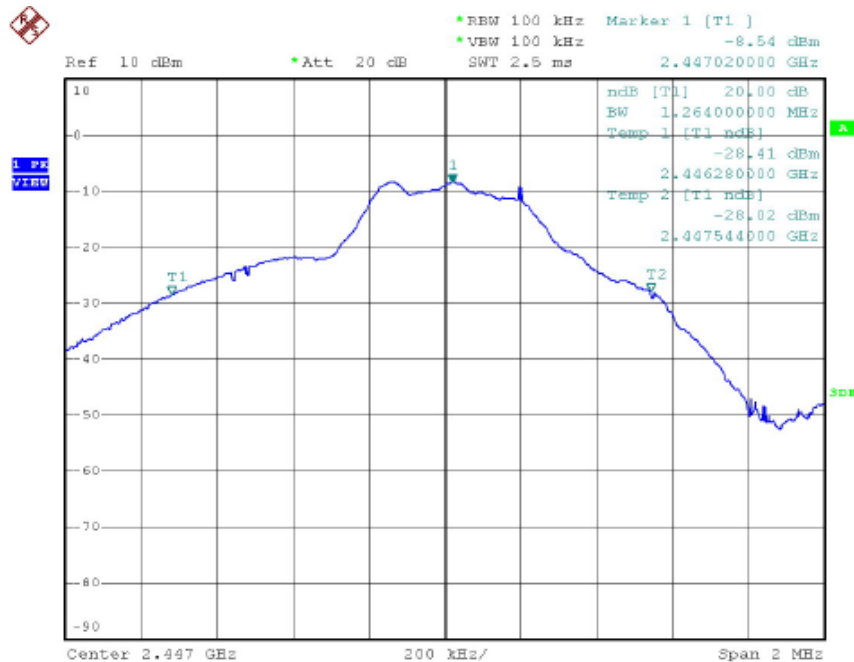
The EUT communicating with GFSK Mode
Lowest channel=2402MHz



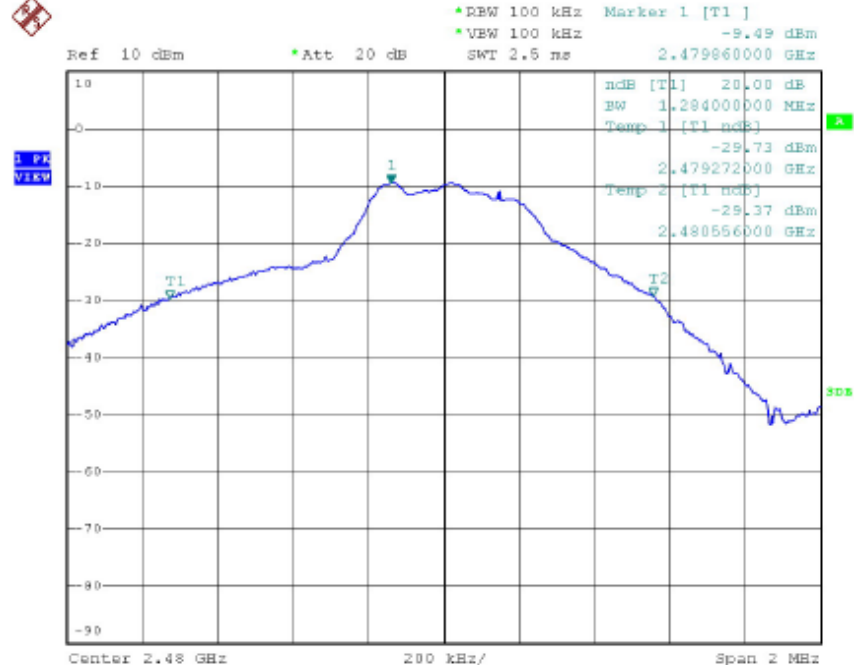
Middle channel=2447MHz

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Highest channel=2480MHz

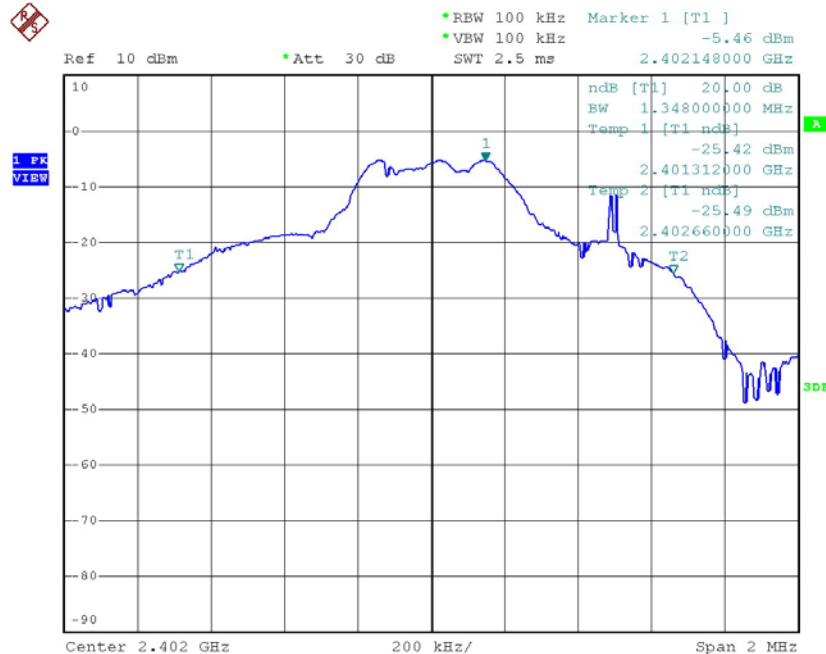


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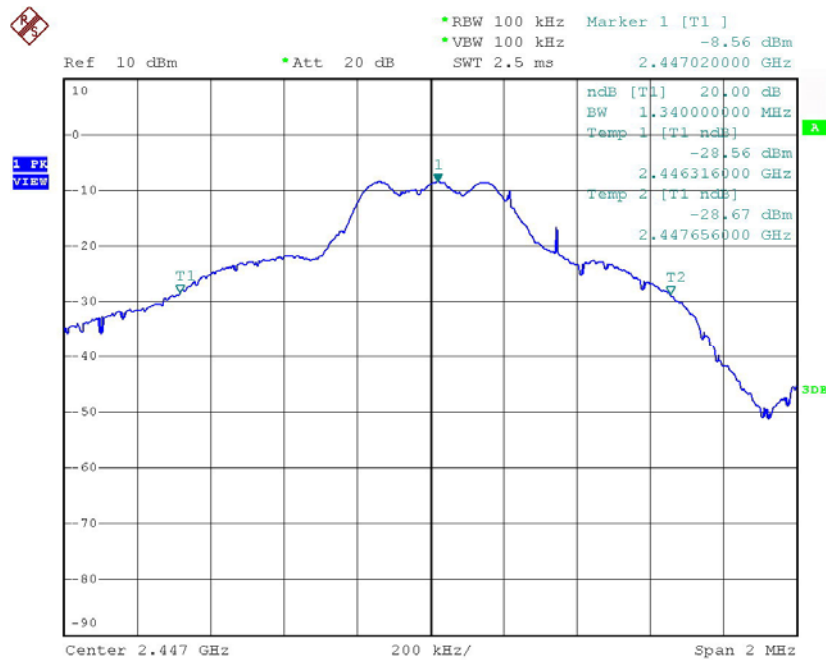
The EUT communicating with Pi/4QPSK Mode
Lowest channel=2402MHz



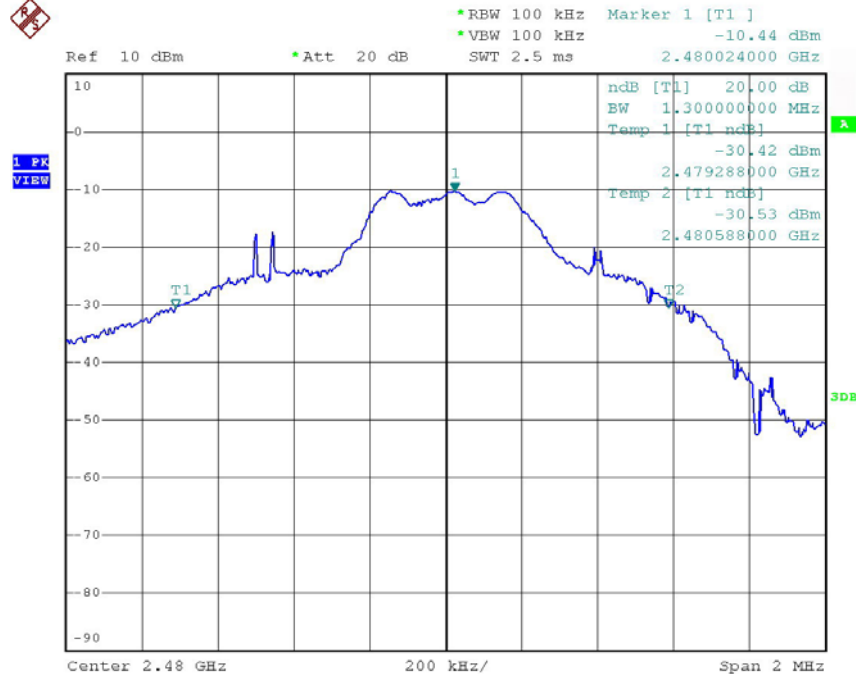
Middle channel=2447MHz

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Highest channel=2480MHz

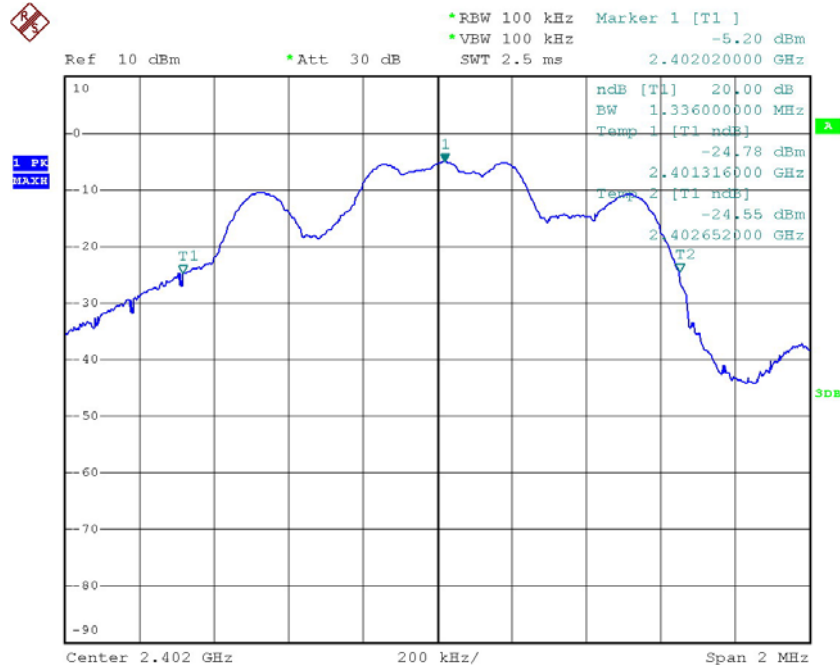


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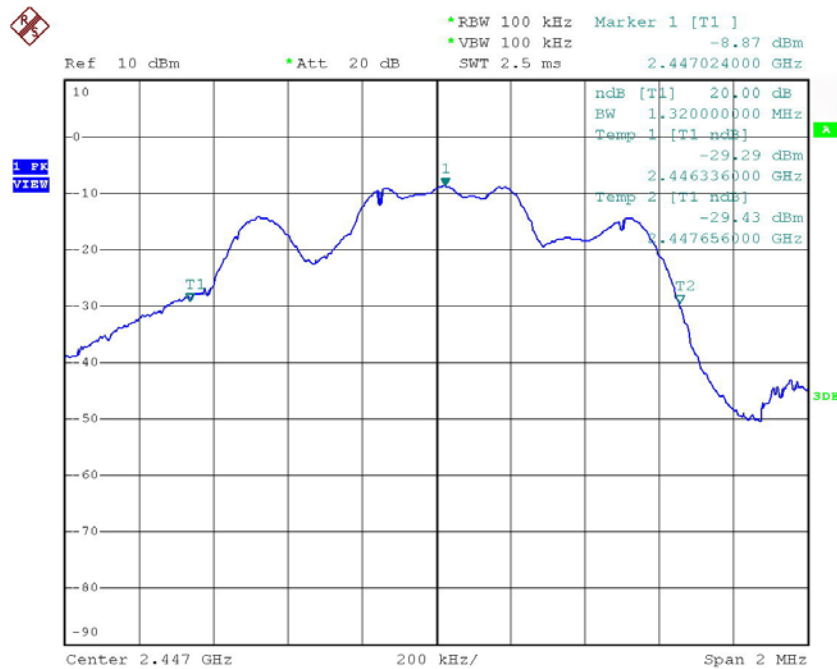
The EUT communicating with 8DPSK Mode
Lowest channel=2402MHz



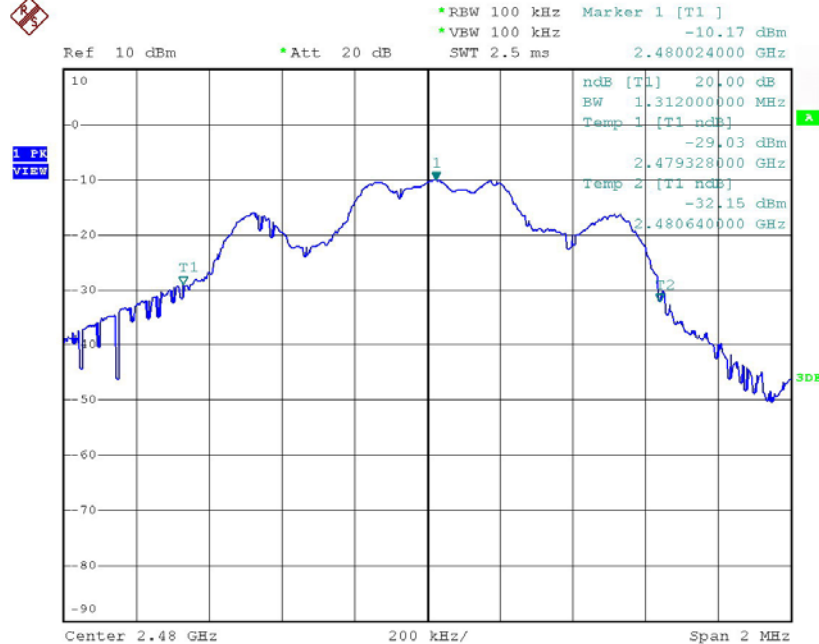
Middle channel=2447MHz

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Highest channel=2480MHz



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5.5 Carrier Frequency Separation

Test Requirement: FCC 15.247(a)(1)
Test Method: ANSI C63.4:2003 and KDB DA00-705
Detector: RBW=VBW=100 KHz (Peak detector)
Test Mode: Blue tooth transmit mode with hopping
Test Date: 05 July. 2010
Temperature: 24°C
Humidity: 50%
Limit: $\geq 0.025\text{MHz}$ or $2/3$ of the 20dB bandwidth (whichever is greater)

According to section 5.4

Mode	20dB bandwidth (MHz) (worse case)	Limit(MHz) (Carrier Frequencies Separation)
GFSK	1.284	0.856
Pi/4QPSK	1.348	0.899
8DPSK	1.336	0.891

The limit is 0.899MHz.

5.5.1 Test Setup

FCC ID: SOV 8200

Spectrum
Analyzer

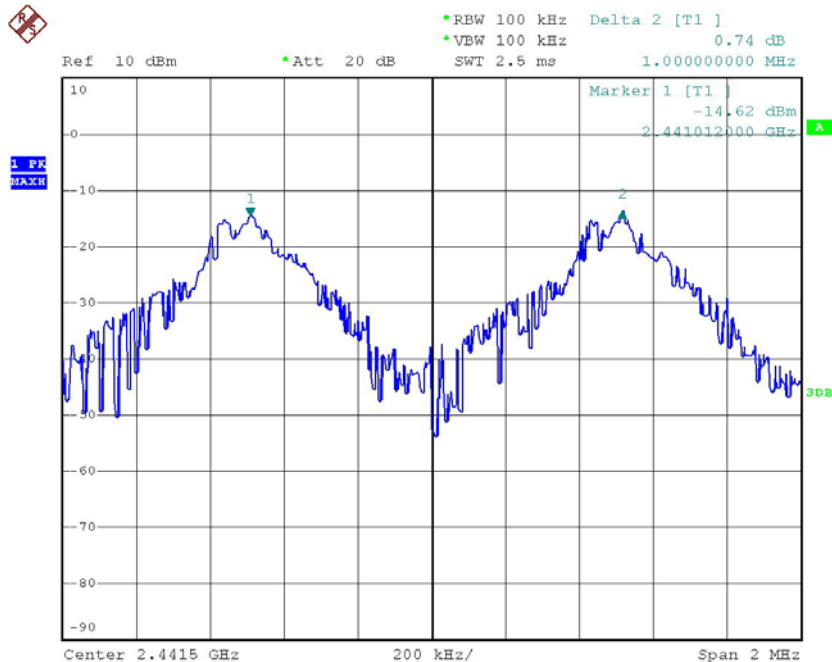
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EUT

5.5.2 Measurement Data

Pre-scan the EUT in GFSK, Pi/4QPSK and 8DPSK modes and find out the worst case is GFSK mode.



FCC ID: SOV 8200

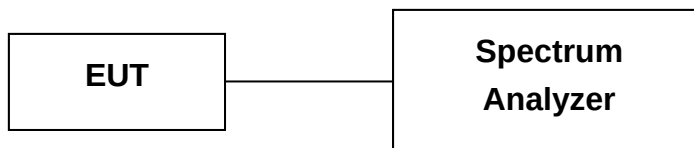
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5.6 Number of Hopping Frequencies

Test Requirement:	FCC 15.247(b)
Test Method:	ANSI C63.4:2003 and KDB DA00-705.
Method of Measurement:	The EUT was setup to ANSI C63.4, 2003, tested to FHSS test procedure of KDB DA00-705 for compliance to FCC 47CFR 15.247 requirements.
Detector:	RBW=VBW=1 MHz (Peak detector)
Test Mode:	Bluetooth in transmit mode with hopping
Test Date:	05 July. 2010
Temperature:	24°C
Humidity:	52%
Limit:	At least 75 channels

5.6.1 Test Setup



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5.6.2 Measurement Data

Pre-Scan has been conducted to determine the worst-case mode from all possible

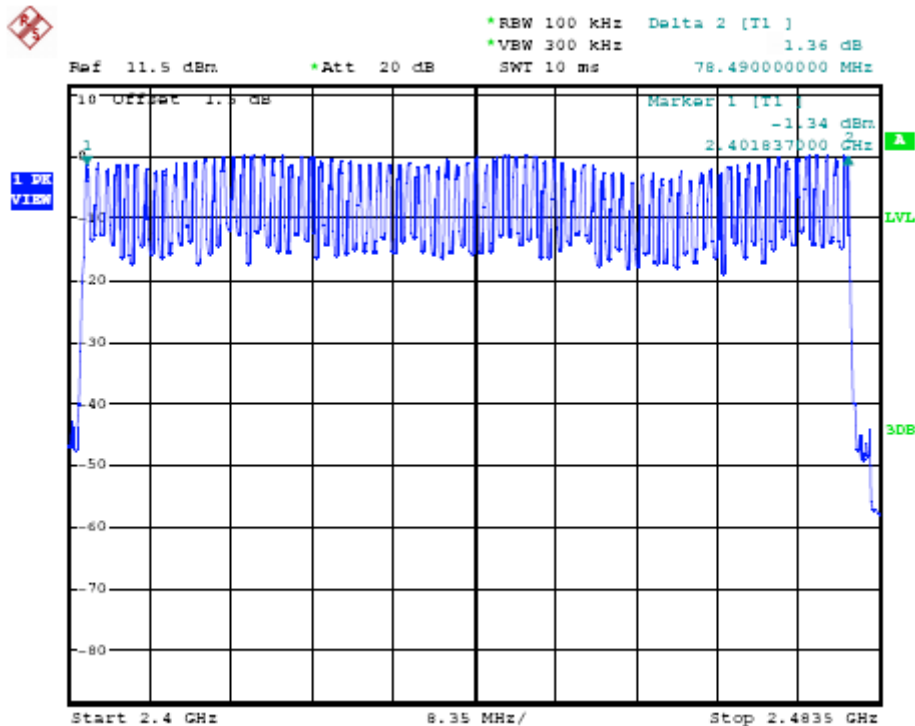
Hopping channels numbers	Limit
79	75

Test result: The unit does meet the FCC requirements.

Test result plot as follows:

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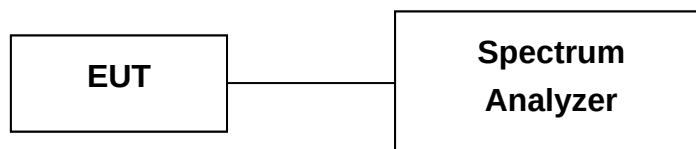
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5.7 Time of Occupy (Dwell Time)

Test Requirement:	FCC 15.247(a)(1)
Test Method:	ANSI C63.4:2003 and KDB DA00-705.
Method of Measurement:	The EUT was setup to ANSI C63.4, 2003, tested to FHSS test procedure of KDB DA00-705 for compliance to FCC 47CFR 15.247 requirements.
Detector:	RBW=VBW=1 MHz (Peak detector) Span=0
Test Mode:	Blue tooth transmit mode with hopping
Test Date:	05 July. 2010
Temperature:	24°C
Humidity:	52%
Limit:	≤0.4Second

5.7.1 Test Setup



5.7.2 Measurement Data

Pre-Scan has been conducted to determine the worst-case mode from all possible, found that the duty

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cycle is same in the follow several types.

Packet	Dwell time(second)	Limti(second)
DH1,2-DH1,3-DH1	0.0510	0.4
DH3,2-DH3,3-DH3	0.0344	0.4
DH5,2-DH5,3-DH5	0.2453	0.4

The result:

The test period: $T=0.4\text{Second/channel} \times 79 \text{ channel}=31.6 \text{ s}$

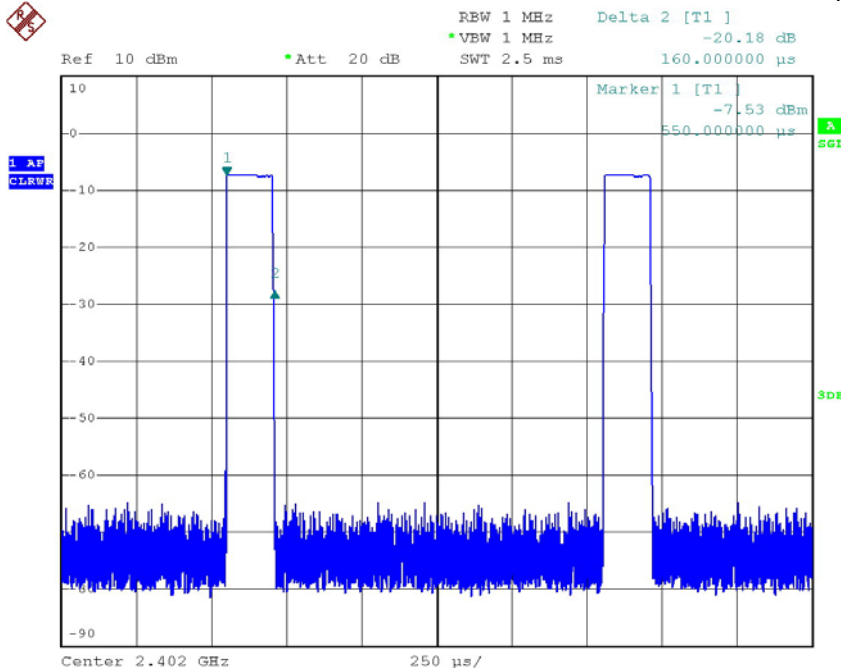
DH1, 2DH1,3DH1 time slot = $0.16\text{ms} \times [1600/(2 \times 79)] \times 31.6=51.2 \text{ ms}$

DH3, 2DH3,3DH3 time slot = $0.215\text{ms} \times [1600/(4 \times 79)] \times 31.6=34.4 \text{ ms}$

DH5, 2DH5,3DH5 time slot = $2.30\text{ms} \times [1600/(6 \times 79)] \times 31.6=245.3\text{ms}$

Test result plot as follows:

GFSK, Pi/4QPSK and 8DPSK mode with DH1,2-DH1,and 3-DH1 test packet.

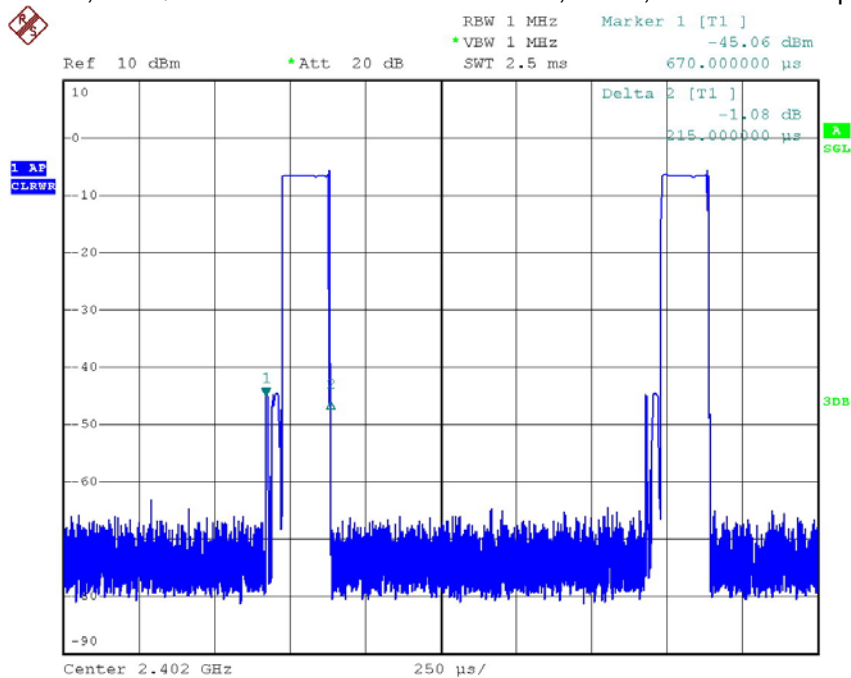


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GFSK, Pi/4QPSK and 8DPSK mode with DH3,2-DH3,and 3-DH3 test packet.

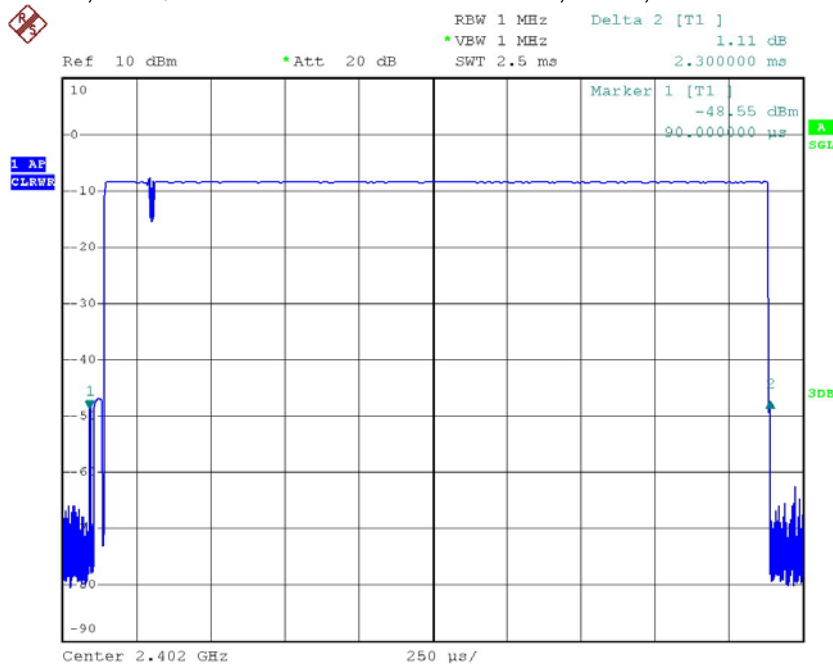


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GFSK, Pi/4QPSK and 8DPSK mode with DH5,2-DH5,and 3-DH5 test packet.



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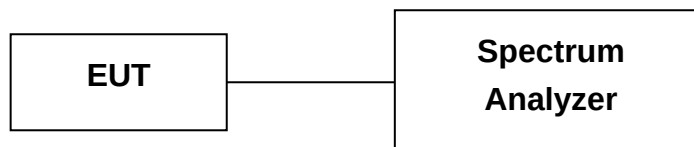
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5.8 Band Edge and Conducted spurious emissions Measurement

Test Requirement:	FCC Part15 C Section 15.247(d)
Test Method:	ANSI C63.4; FCC Part15 C Section 15.247,KDB DA00-705 for FHSS System
Detector:	RBW=VBW=100 KHz (Peak detector)
Test Mode:	Bluetooth in transmit mode
Test Date:	05 July. 2010
Temperature:	24 °C
Humidity:	52%
Limit:	Regulation 15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

5.8.1 Test Setup



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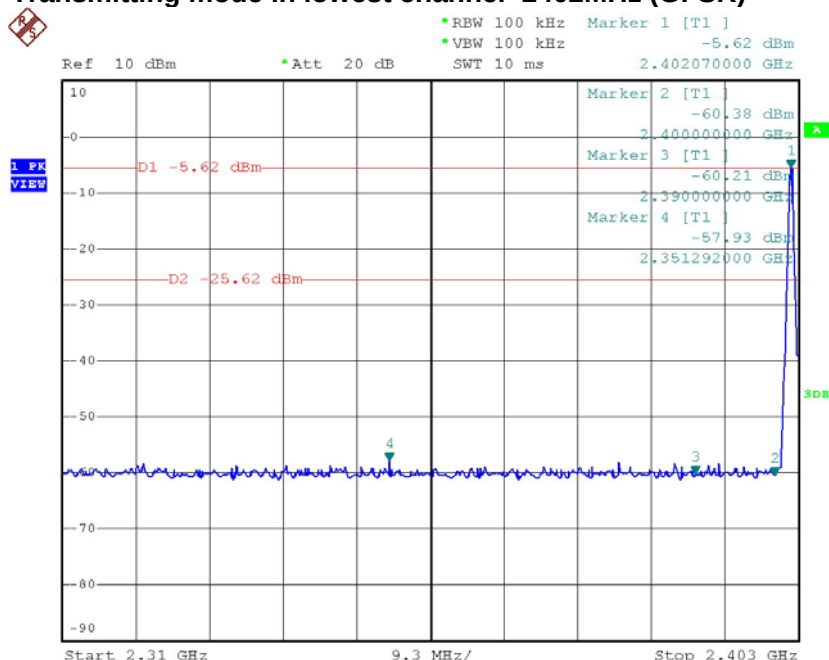
5.8.2 Measurement Data

Pre-scan the EUT in hopping and without hopping modes and find out the worst case is without hopping mode.

Test result: The unit does meet the FCC requirements.

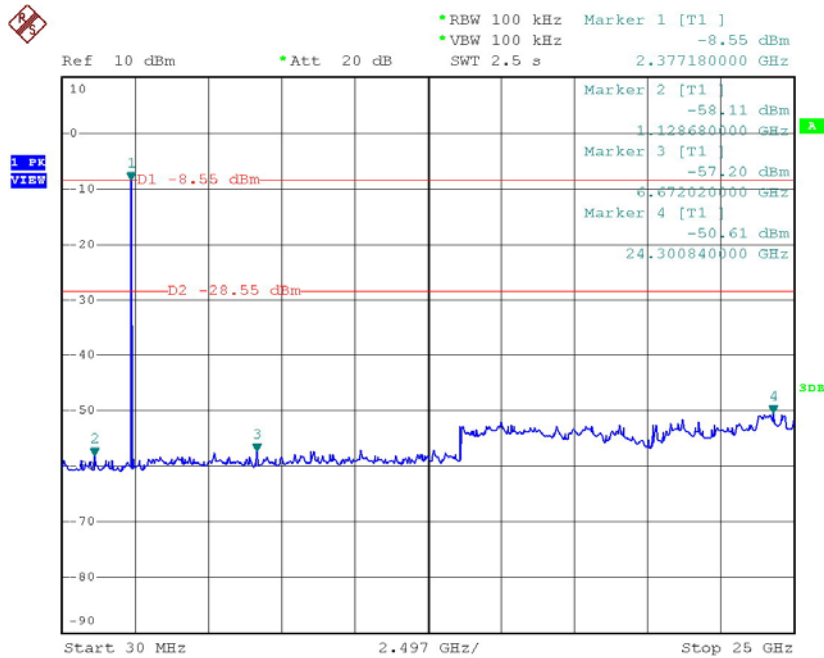
Test result plot as follows:

Transmitting mode in lowest channel=2402MHz (GFSK)

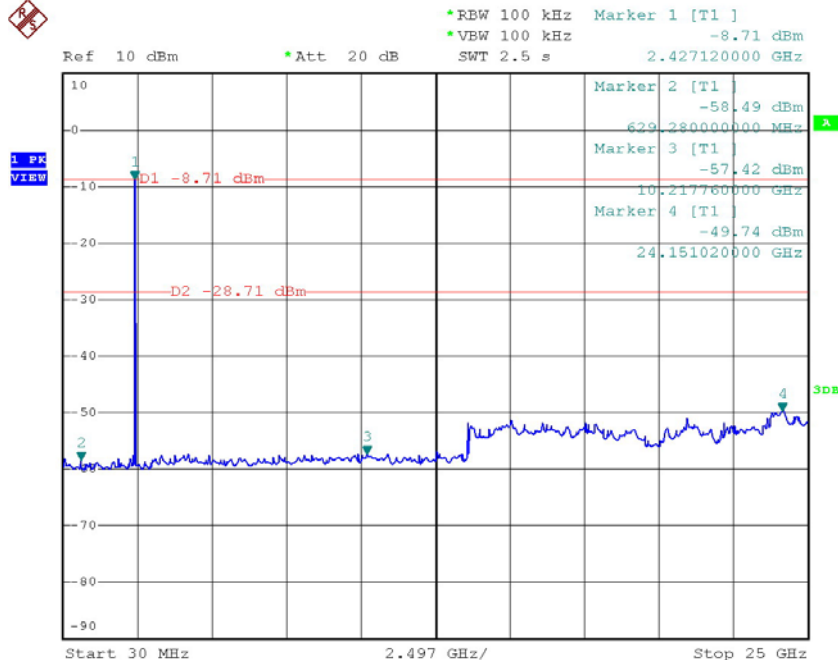


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Transmitting mode in middle channel=2447MHz (GFSK)

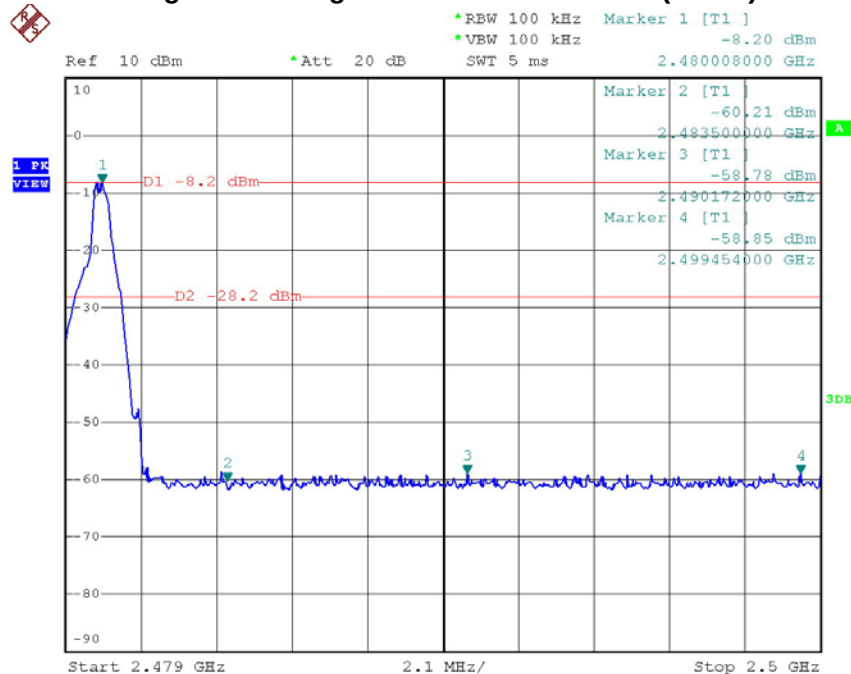


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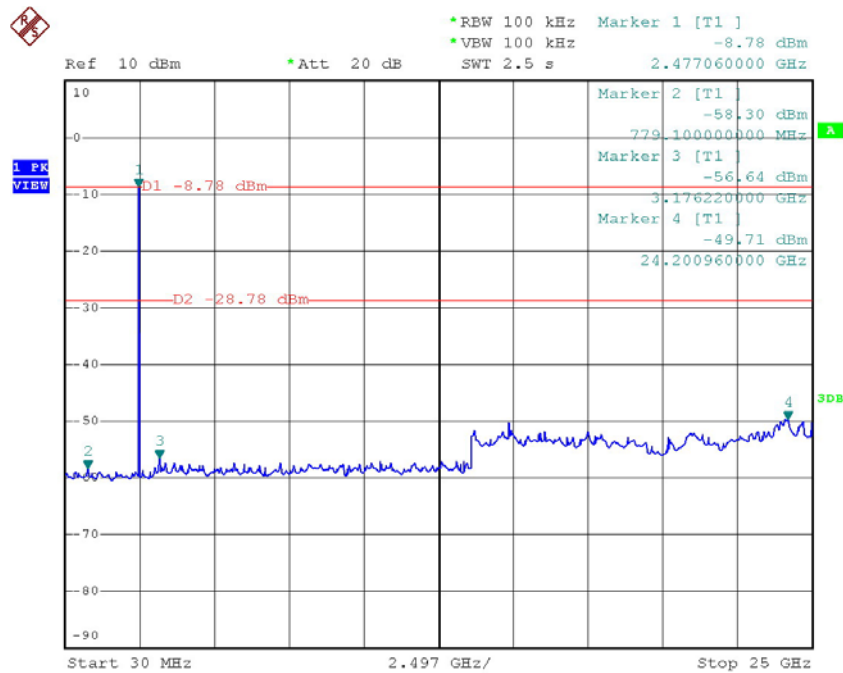


Transmitting mode in highest channel=2480MHz (GFSK)

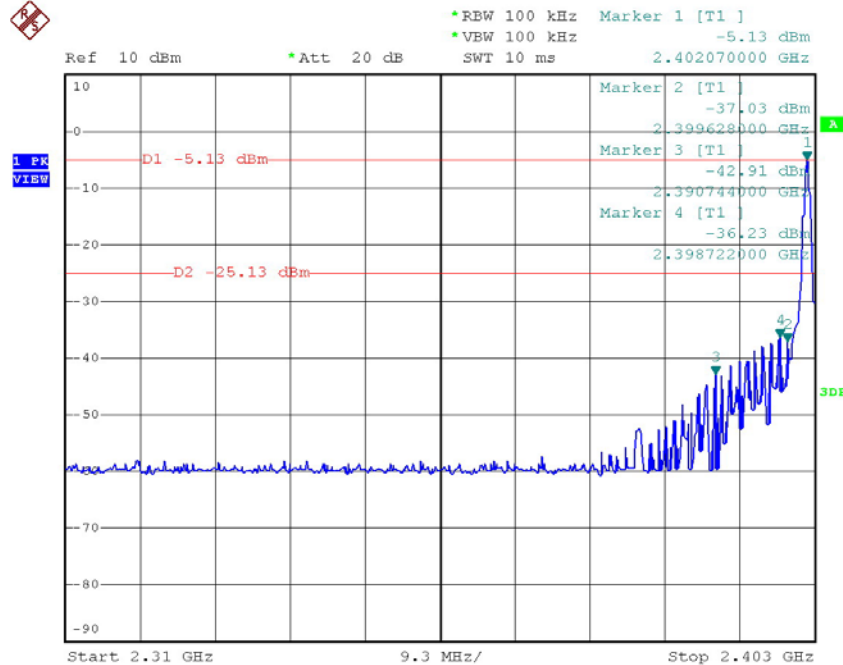


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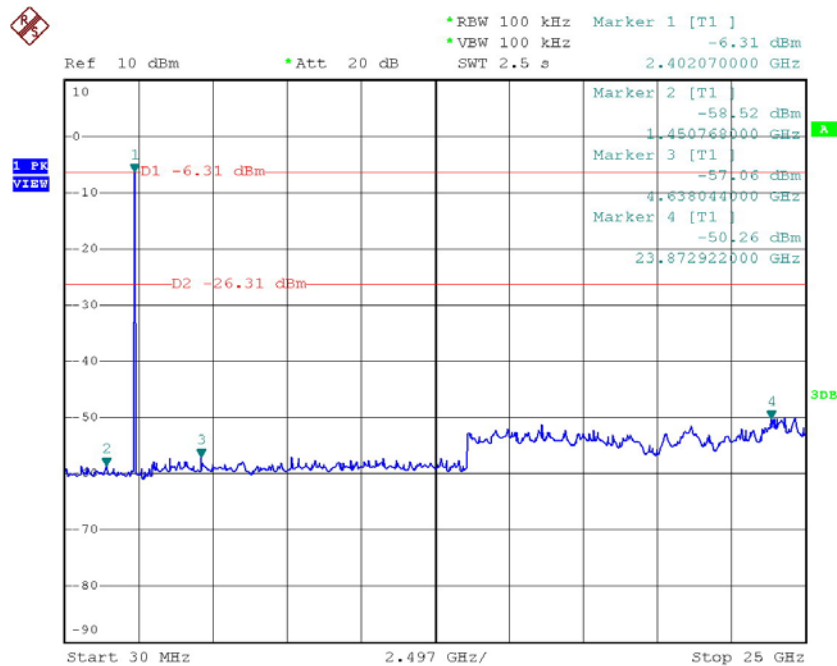


Transmitting mode in lowest channel=2402MHz (Pi/4QPSK)

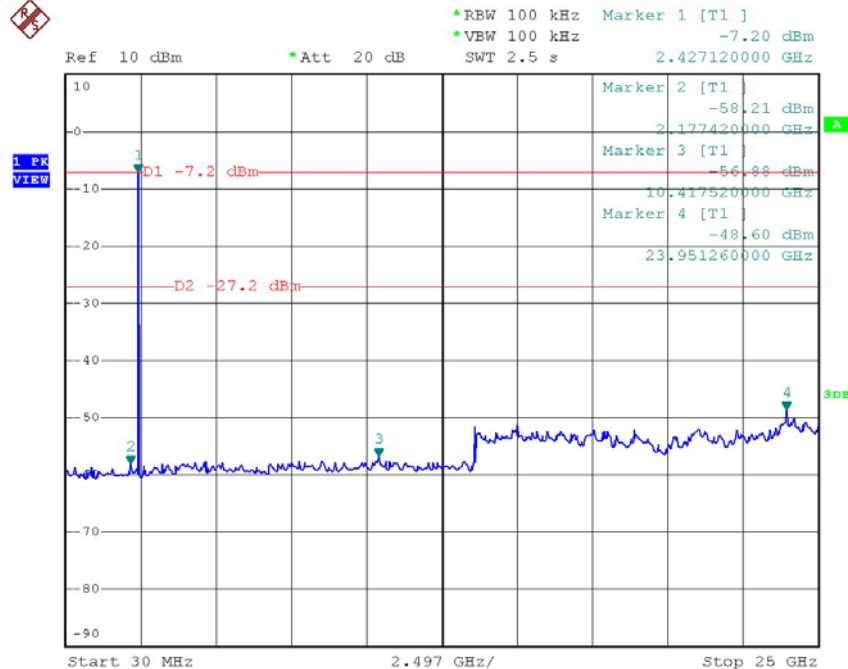


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Transmitting mode in middle channel=2447MHz (Pi/4QPSK)

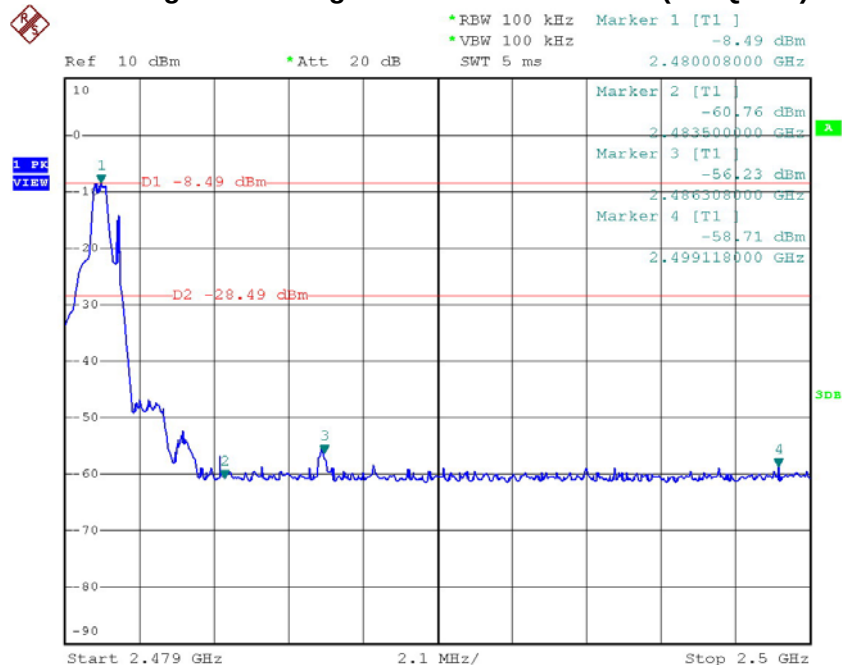


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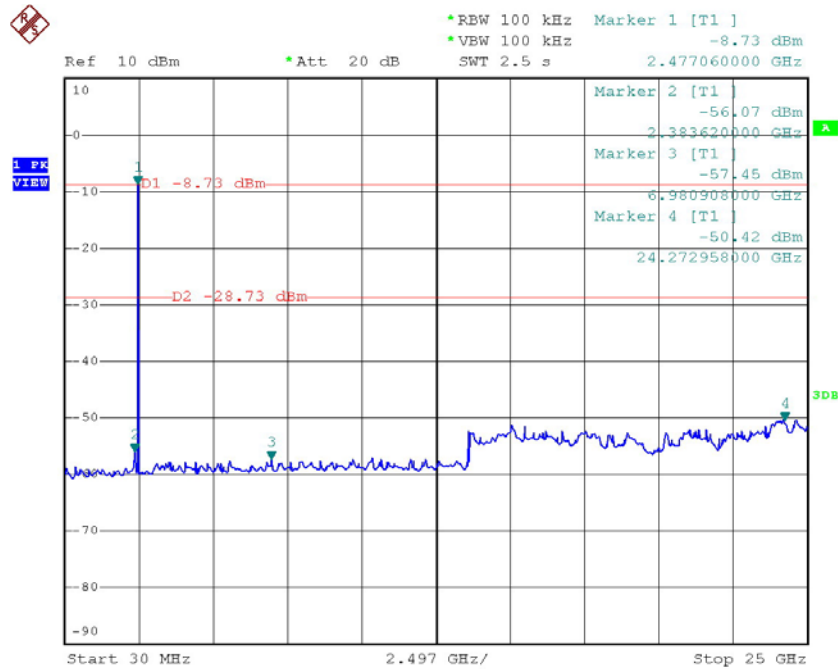


Transmitting mode in highest channel=2480MHz (Pi/4QPSK)

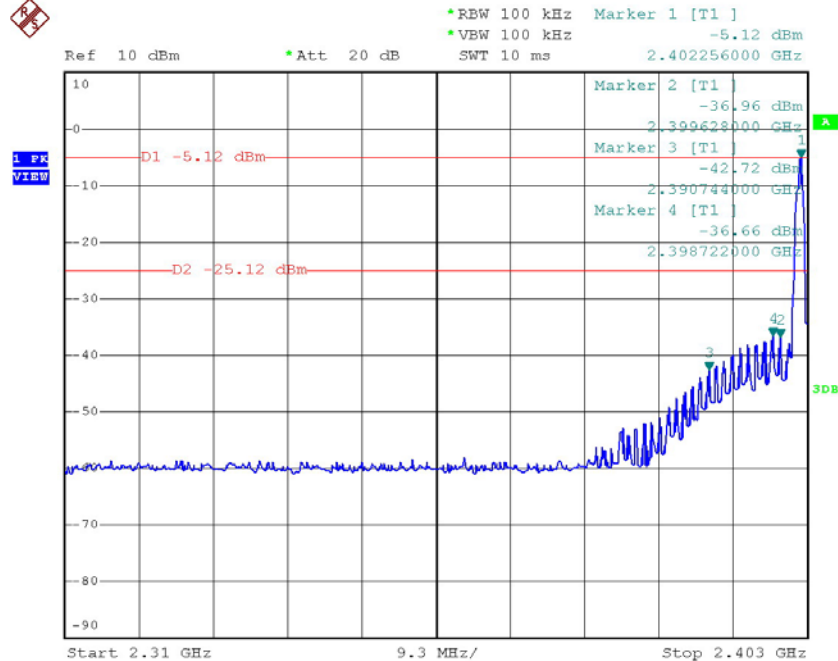


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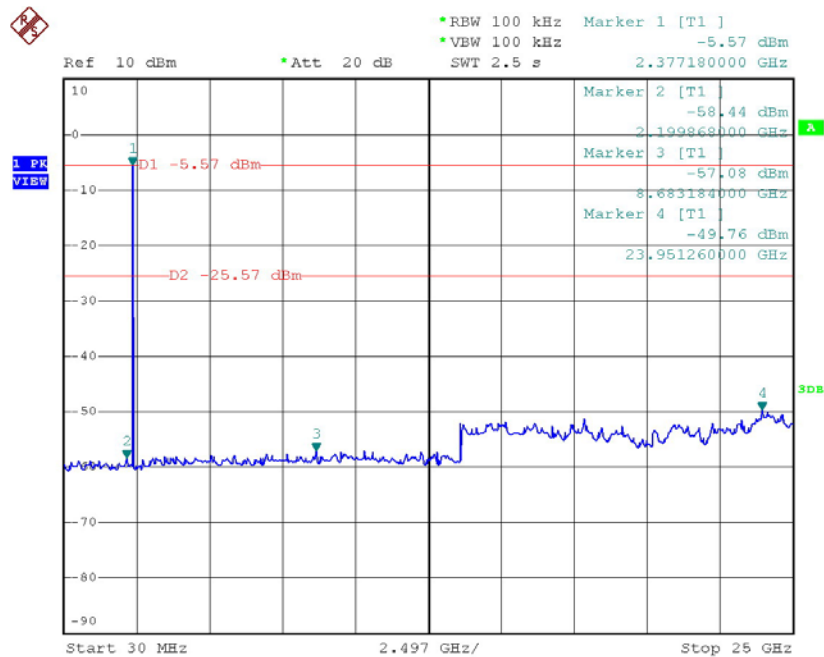


Transmitting mode in lowest channel=2402MHz (8DPSK)

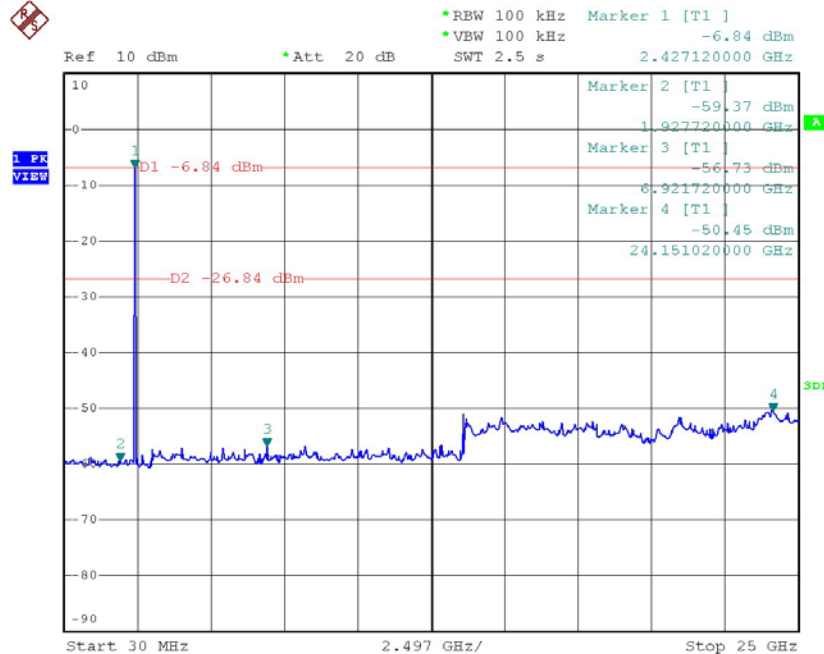


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Transmitting mode in middle channel=2447MHz (8DPSK)

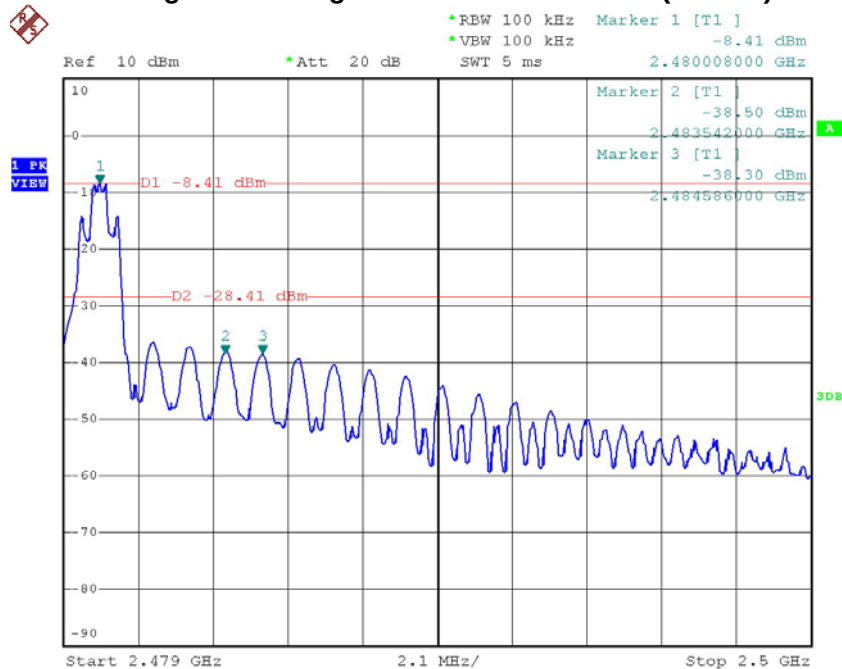


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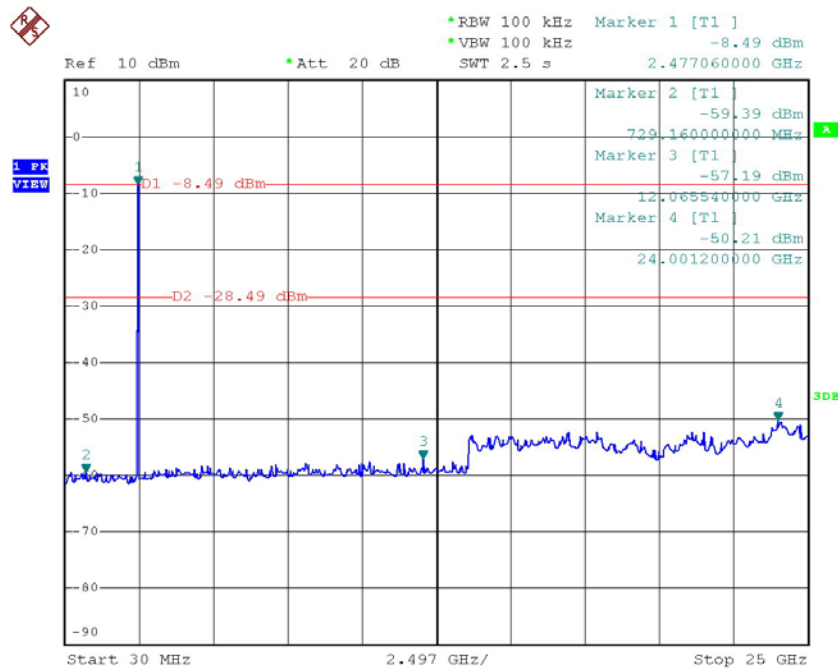


Transmitting mode in highest channel=2480MHz (8DPSK)



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5.9 Antenna Requirement

Standard requirement

15.203 requirement:

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

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz bands that are used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

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5.10 RF Exposure Compliance

Standard requirement

15.247(b)(4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section. if transmitting antennas of directional gain greater than 6 dBi are used. the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1). (b)(2). and (b)(3) of this section. as appropriate. by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT RF Exposure

The Max Conducted Peak Output Power is **-2.65dBm(0.54mW)** in the Middle channel (2.447GHz);

The best case gain of the antenna is 0dBi.

calculate the EIRP test result:

EIRP= 0.54mW ①

SAR requirement:

$S = 60 / f(\text{GHz}) = 60 / 2.447 = 24.52\text{mW}$ ② ;

① < ②.

So the SAR report is not required.