



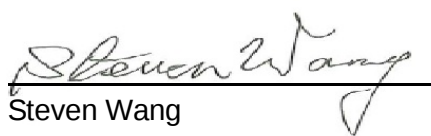
FCC RADIO TEST REPORT

Applicant : Sysgration Ltd.
Address : 6F-2.,No.1,Sec.1,Tiding Blvd.,Neihu Dist.
Taipei City, 11494, Taiwan
Equipment : Bluetooth Low Energy TPMS
Model No. : BSI-03, BSI-03T
Trade Name : SYSGRATION
FCC ID : HQXBSI03

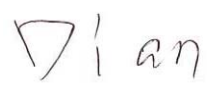
I HEREBY CERTIFY THAT :

The sample was received on Dec. 24, 2015 and the testing was carried out on Dec. 25, 2015 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:


Steven Wang
Manager

Tested by:


Dian Chen
Engineer

Laboratory Accreditation:

☒ CerpPASS Technology Corporation Test Laboratory☐ CerpPASS Technology(SuZhou) Co., Ltd.



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☐ Additional attachment as following record:

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1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.4: 2009

FCC Rules and Regulations Part 15 Subpart C §15.247

KDB558074

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. AC Power Line Conducted Emission	Pass
15.209 15.205	. Radiated Spurious Emission	Pass
15.247(d)	. Conducted Spurious Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak Output Power	Pass
15.247(e)	. Power Spectral Density	Pass

This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report.



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Frequency Range	2402-2480 MHz
Type of Modulation	GFSK (Bluetooth low energy)
Channel of Bandwidth	2MHz
Channel numbers	40 channels
Type of Antenna	Wire Antenna
Antenna Gain	-0.05 dBi
Rating Input	DC 3V from battery

Note: Model number difference of this application is for marketing purpose, the circuit design and layout are the same.

2.2 Carrier Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
*00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	*19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	*39	2480
12	2426	26	2454	--	--
13	2428	27	2456	--	--

Note: Channels remarked * are selected to perform test.



2.3 Test Mode & Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4
- b. The complete test system included Notebook and EUT for RF test.
- c. An executive program," QBlue Evaluation Tool _v1.06" under WIN 7 was executed to transmit and receive data via Bluetooth.
- d. The test mode of RF test as follow:
Mode 1: GFSK (1Mbps, CH 00: 2402MHz, CH 19: 2440MHz, CH 39: 2480MHz)

2.4 Description of Test System

Device	Manufacturer	Model No.	Description
Notebook	HP	ProBook 5310m	Power Cable, Unshielding, 1.8m



2.5 General Information of Test

☒	Test Site	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582
	FCC	TW1079, TW1061,390316, 228391, 641184
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication Test C-4663 for Conducted emission test R-3428, R-4218 for Radiated emission test G-812, G-813 for radiated disturbance above 1GHz
☐	Test Site	Cerpass Technology (Suzhou) Co.,Ltd Address: No.66,Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China Tel: +86-512-6917-5888 Fax: +86-512-6917-5666
	FCC	916572, 331395
	IC	7290A-1, 7290A-2
	VCCI	T-343 for Telecommunication Test C-2919 for Conducted emission test R-2670 for Radiated emission test G-227 for radiated disturbance above 1GHz
Frequency Range Investigated:		Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 25000MHz
Test Distance:		The test distance of radiated emission from antenna to EUT is 3 M.



3. Test Equipment and Ancillaries Used for Tests

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	275	2015/9/3	2016/9/2
Active Loop Antenna	EMCO	6507	40855	2015/3/12	2016/3/11
Horn Antenna	EMCO	3115	31601	2015/9/2	2016/9/1
Horn Antenna	EMCO	3116	31974	2015/9/7	2016/9/6
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2015/3/14	2016/3/13
Preamplifier	QuieTek	AP-0100A	CHM0906075	2015/9/17	2016/9/16
Preamplifier	Agilent	8449B	3008A01954	2015/3/5	2016/3/4
Preamplifier	MITEQ	AMF-7D-0010 100-30-10P	1860212	2015/3/9	2016/3/8
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2015/9/4	2016/9/3
Signal Generator	KEYSIGHT	83640A	2927A00107	2015/9/1	2016/8/31
MXG MW Analog Signal Generator	KEYSIGHT	N5183A	MY50142931	2015/3/13	2016/3/12
MXG-B RF Vector Signal Generator	KEYSIGHT	N5182B	MY53051383	2015/3/12	2016/3/11
BLUETOOTH TESTER	R&S	CBT	101133	2015/3/12	2016/3/11
Attenuator	KEYSIGHT	8491B	MY39250705	2015/9/2	2016/9/1
Rotary Attenuator	Agilent	8494B	MY42154466	2015/3/9	2016/3/8
Rotary Attenuator	Agilent	8495B	MY42146680	2015/3/9	2016/3/8
Temp & Humi chamber	T-MACHINE	TMJ-9712	T-12-040111	2015/09/08	2016/09/07
Series Power Meter	Anritsu	ML2495A	1224005	2015/3/5	2016/3/4
Power Sensor	Anritsu	MA2411B	1207295	2015/3/5	2016/3/4
USB Average Power Sensor	Theda	4PS6A	TW5451013-16	2014/11/8	2016/11/7



4. Antenna Requirements

4.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2 Antenna Construction and Directional Gain

No.	Antenna Type	Antenna Gain
1	Wire Antenna	-0.05 dBi



5. Test of AC Power Line Conducted Emission

Not required test for DC power source.



6. Test of Radiated Spurious Emission

6.1 Test Limit

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

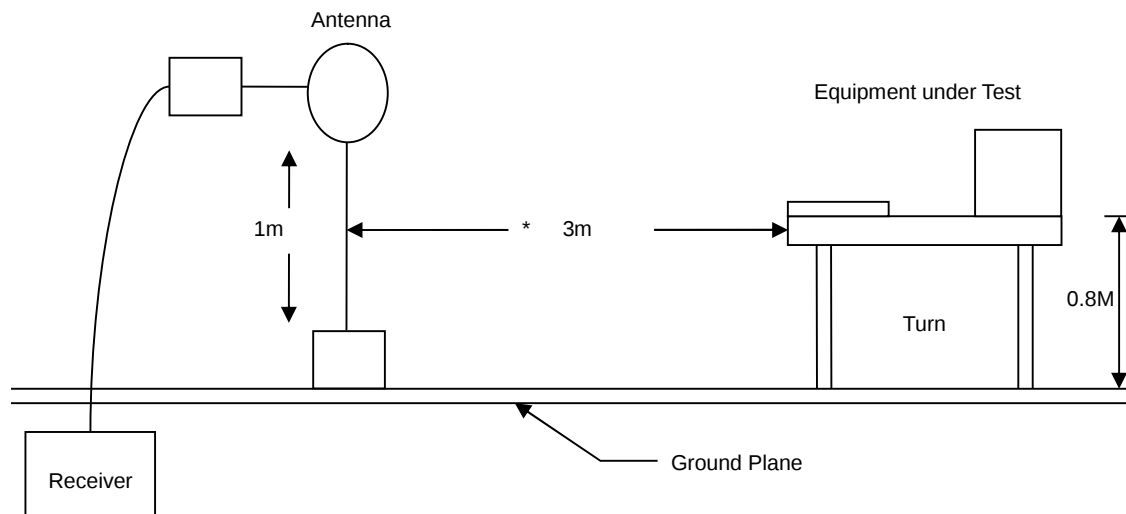
6.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

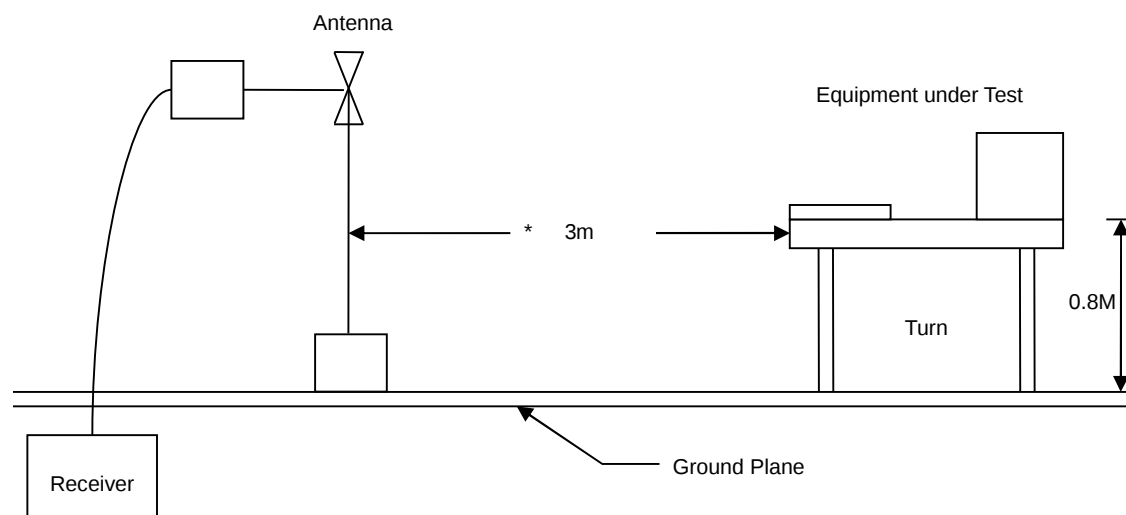


6.3 Typical Test Setup

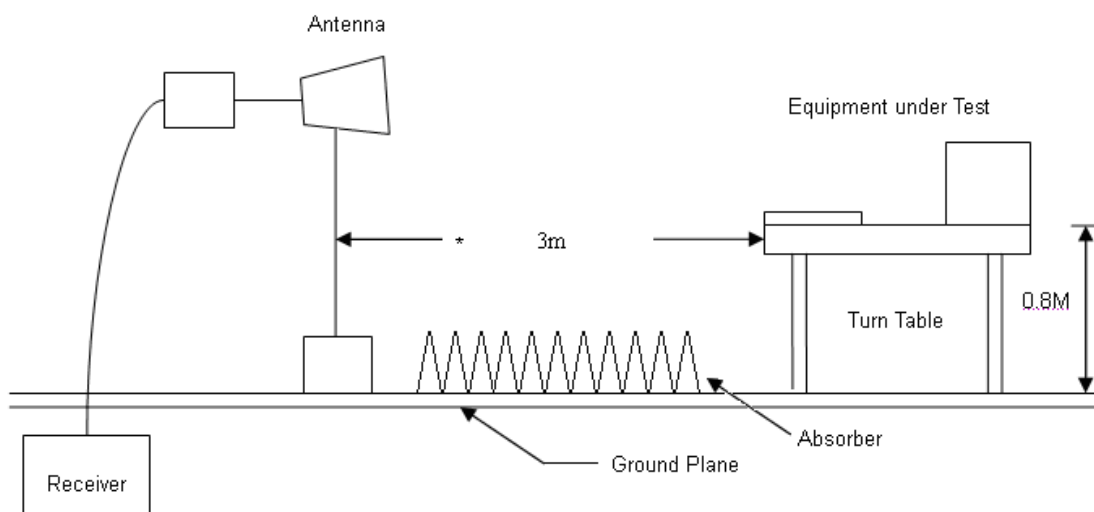
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



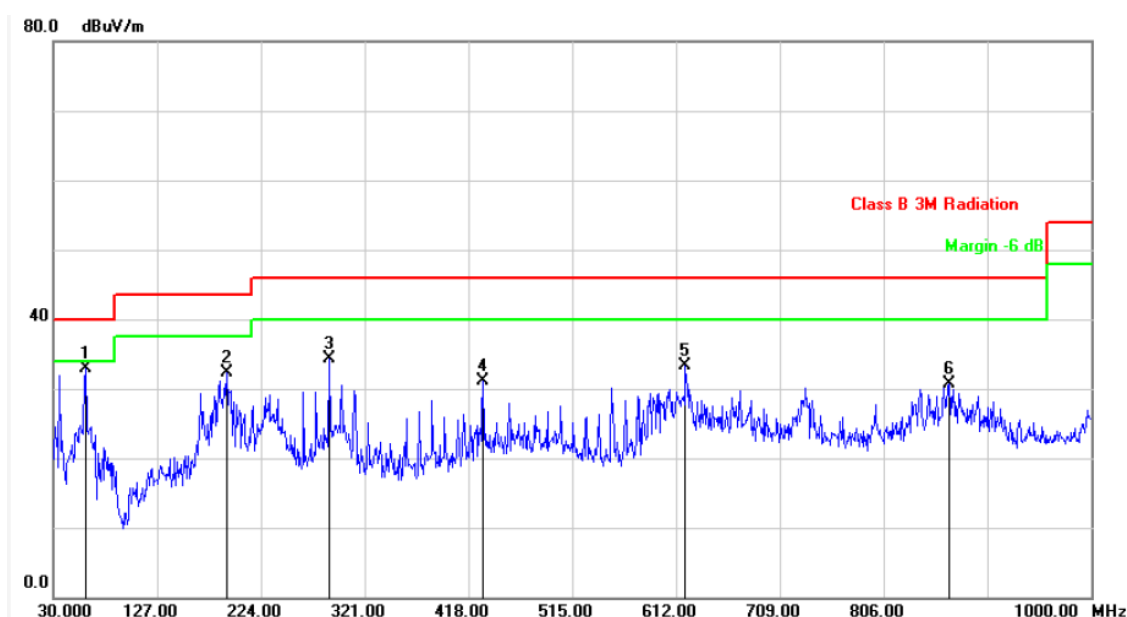


6.4 Test Result and Data (9kHz ~ 30MHz)

The 9kHz-30MHz spurious emission is under limit 20dB more.

6.5 Test Result and Data (30MHz ~ 1GHz)

Power	: From DC	Pol/Phase	: VERTICAL
Test Mode	: Mode 1	Temperature	: 22°C
Test Date	: Dec. 25, 2015	Humidity	: 52%
Memo	: CH00 (1Mbps)	Atmospheric Pressure	: 1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	60.0700	-17.27	50.21	32.94	40.00	-7.06	peak	200	0	P
2	191.9900	-18.94	51.19	32.25	43.50	-11.25	peak	200	0	P
3	288.0200	-15.94	50.24	34.30	46.00	-11.70	peak	200	0	P
4	431.5800	-12.21	43.38	31.17	46.00	-14.83	peak	200	0	P
5	620.7300	-8.67	42.01	33.34	46.00	-12.66	peak	200	0	P
6	867.1100	-5.36	36.07	30.71	46.00	-15.29	peak	200	0	P

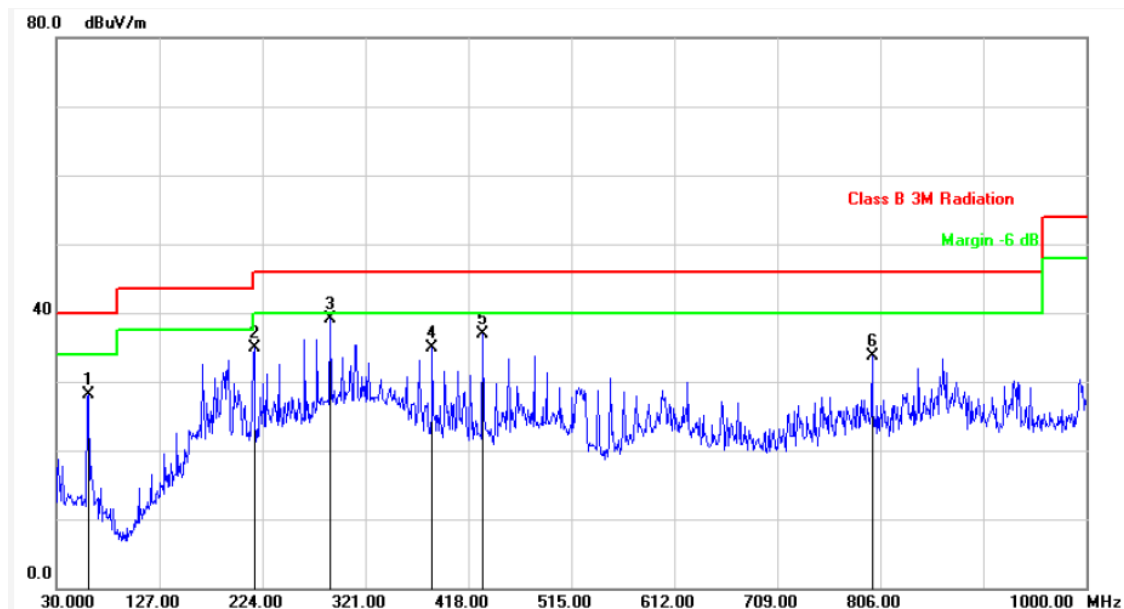
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: From DC	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1	Temperature	: 22°C
Test Date	: Dec. 25, 2015	Humidity	: 52%
Memo	: CH00 (1Mbps)	Atmospheric Pressure	: 1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	60.0700	-17.27	45.34	28.07	40.00	-11.93	peak	100	0	P
2	216.2400	-19.02	53.94	34.92	46.00	-11.08	peak	100	0	P
3	288.0200	-15.94	55.10	39.16	46.00	-6.84	peak	100	0	P
4	384.0500	-13.38	48.32	34.94	46.00	-11.06	peak	100	0	P
5	431.5800	-12.21	49.18	36.97	46.00	-9.03	peak	100	0	P
6	798.2400	-6.51	40.17	33.66	46.00	-12.34	peak	100	0	P

Note: Level = Reading + Factor

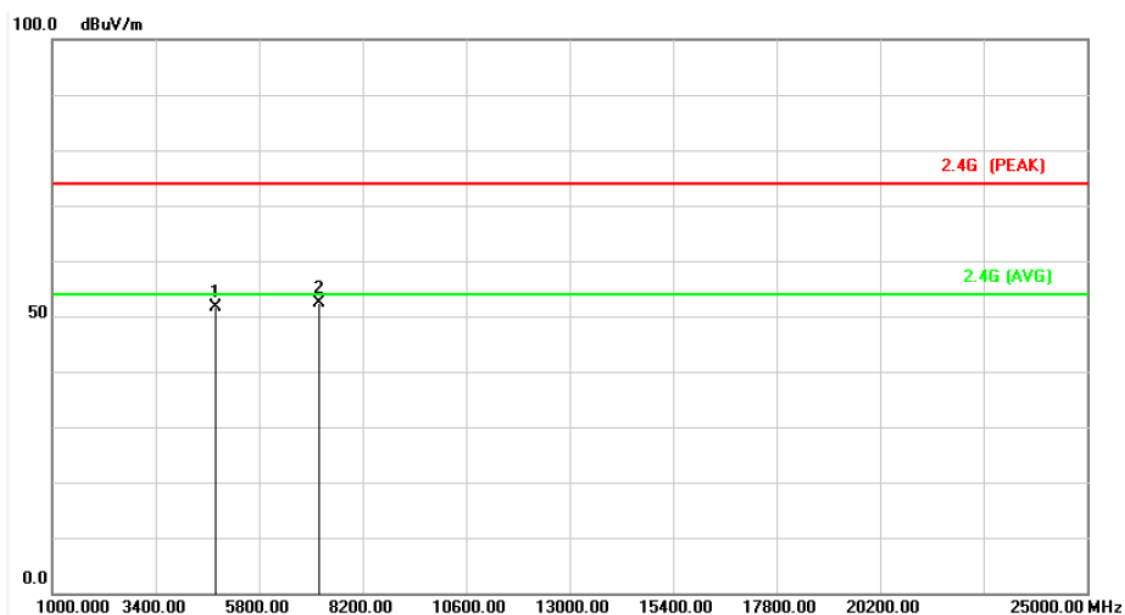
Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



6.6 Test Result and Data (Above 1GHz)

Power	: From DC	Pol/Phase	: VERTICAL
Test Mode	: Mode 1	Temperature	: 22°C
Test Date	: Dec. 25, 2015	Humidity	: 52%
Memo	: CH00 (1Mbps)	Atmospheric Pressure	: 1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	4804.000	7.85	43.66	51.51	74.00	-22.49	peak	200	0	P
2	7206.000	13.01	39.32	52.33	74.00	-21.67	peak	200	0	P

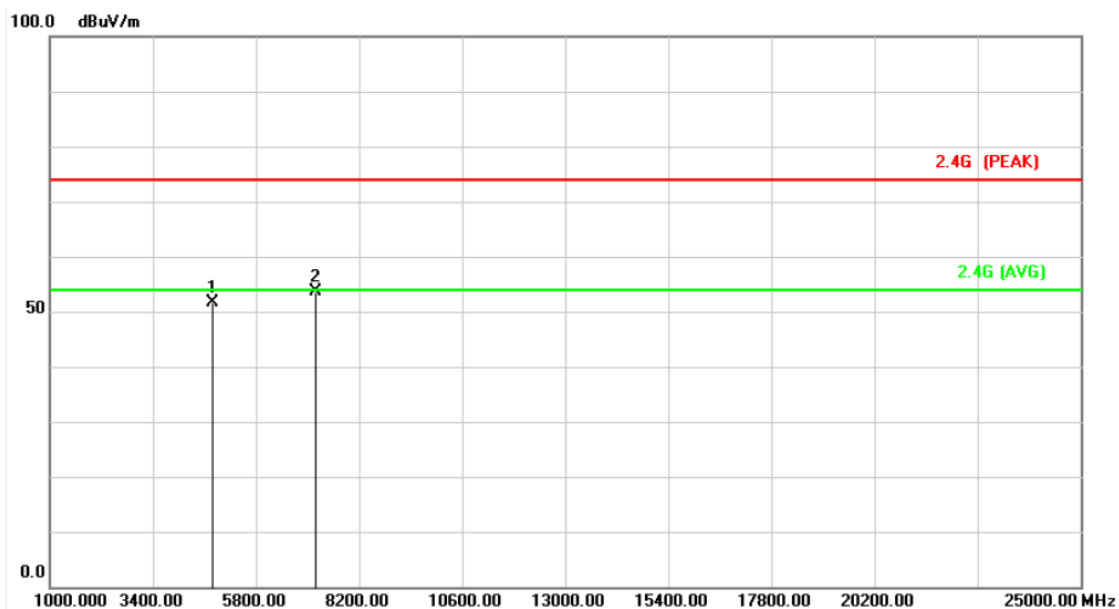
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: From DC	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1	Temperature	: 22°C
Test Date	: Dec. 25, 2015	Humidity	: 52%
Memo	: CH00 (1Mbps)	Atmospheric Pressure	: 1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	4804.000	7.85	43.81	51.66	74.00	-22.34	peak	100	0	P
2	7206.000	13.01	40.73	53.74	74.00	-20.26	peak	100	0	P

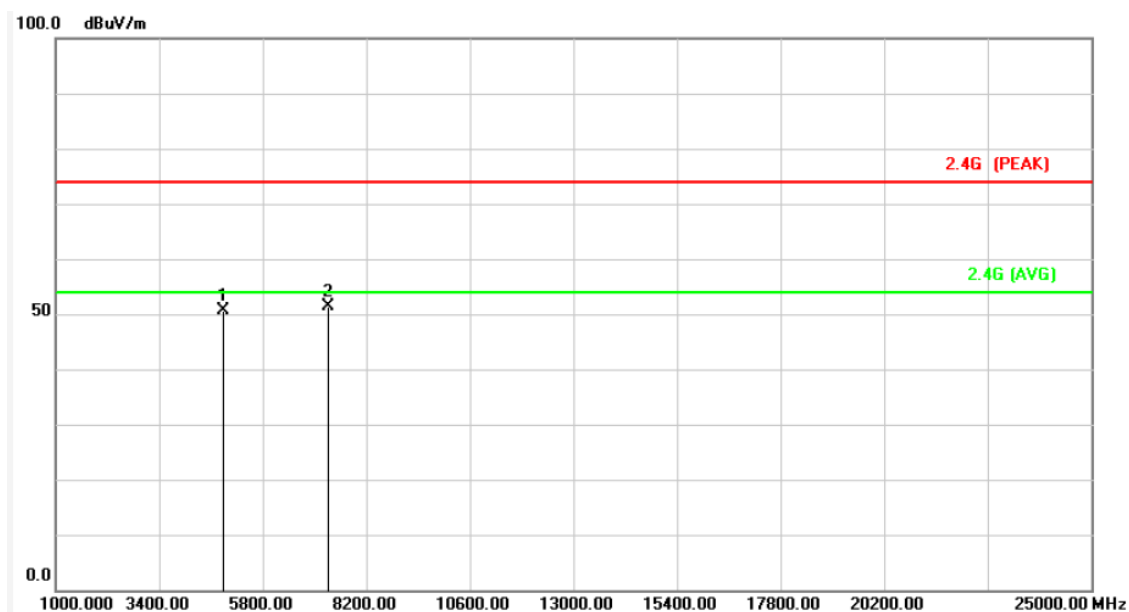
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: From DC	Pol/Phase	: VERTICAL
Test Mode	: Mode 1	Temperature	: 22°C
Test Date	: Dec. 25, 2015	Humidity	: 52%
Memo	: CH19 (1Mbps)	Atmospheric Pressure	: 1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	4880.000	8.09	42.54	50.63	74.00	-23.37	peak	200	0	P
2	7320.000	13.41	38.03	51.44	74.00	-22.56	peak	200	0	P

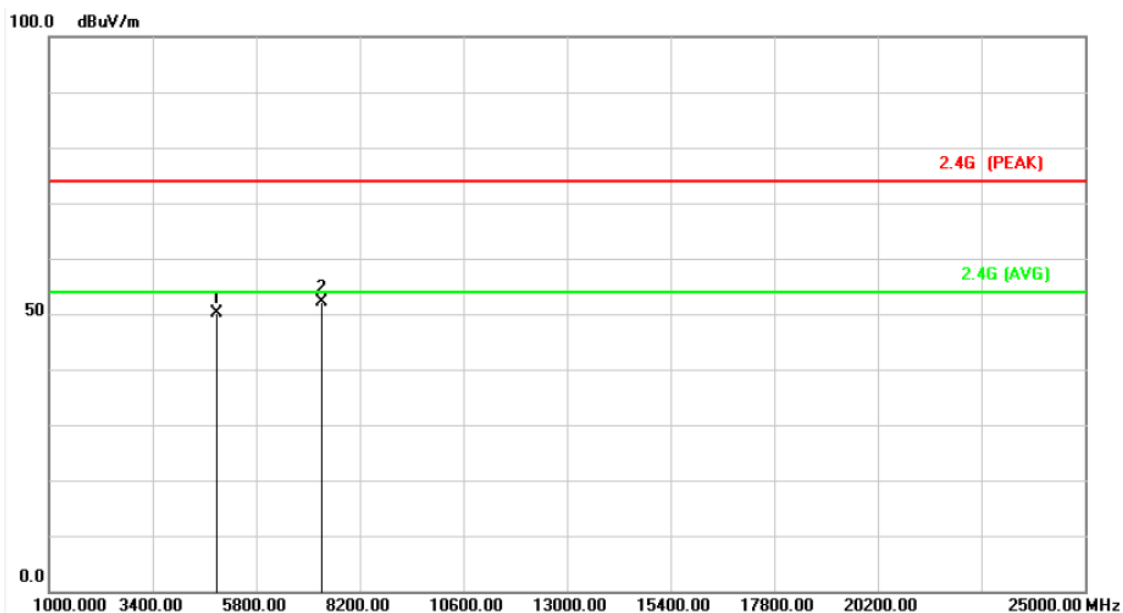
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: From DC	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1	Temperature	: 22°C
Test Date	: Dec. 25, 2015	Humidity	: 52%
Memo	: CH19 (1Mbps)	Atmospheric Pressure	: 1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	4880.000	8.09	42.01	50.10	74.00	-23.90	peak	100	0	P
2	7320.000	13.41	38.62	52.03	74.00	-21.97	peak	100	0	P

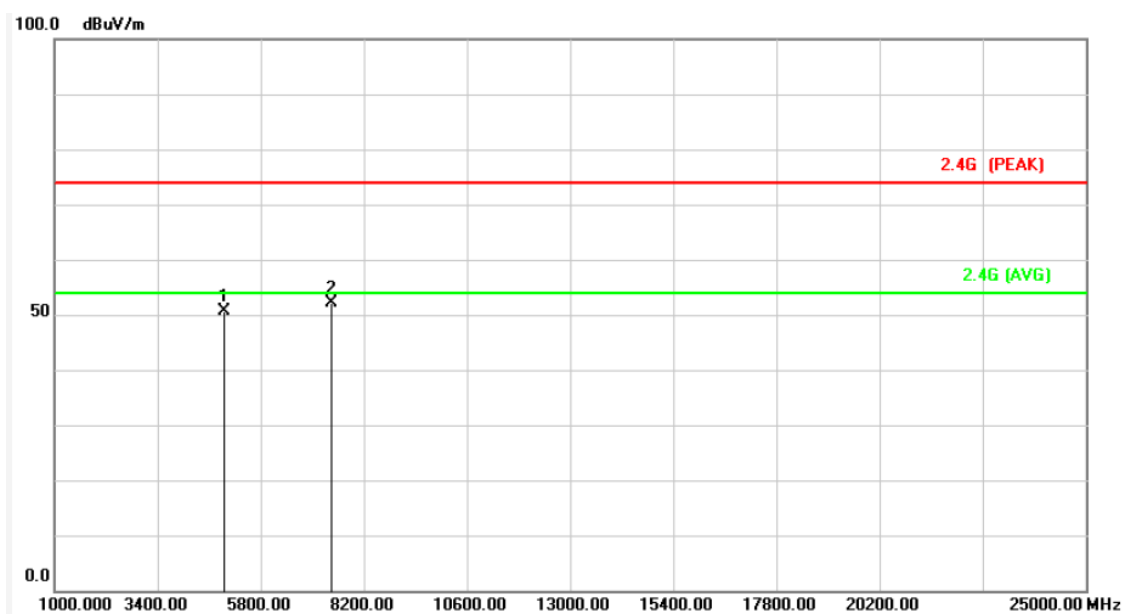
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: From DC	Pol/Phase	: VERTICAL
Test Mode	: Mode 1	Temperature	: 22°C
Test Date	: Dec. 25, 2015	Humidity	: 52%
Memo	: CH39 (1Mbps)	Atmospheric Pressure	: 1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	4960.000	8.34	42.29	50.63	74.00	-23.37	peak	200	0	P
2	7440.000	13.84	38.30	52.14	74.00	-21.86	peak	200	0	P

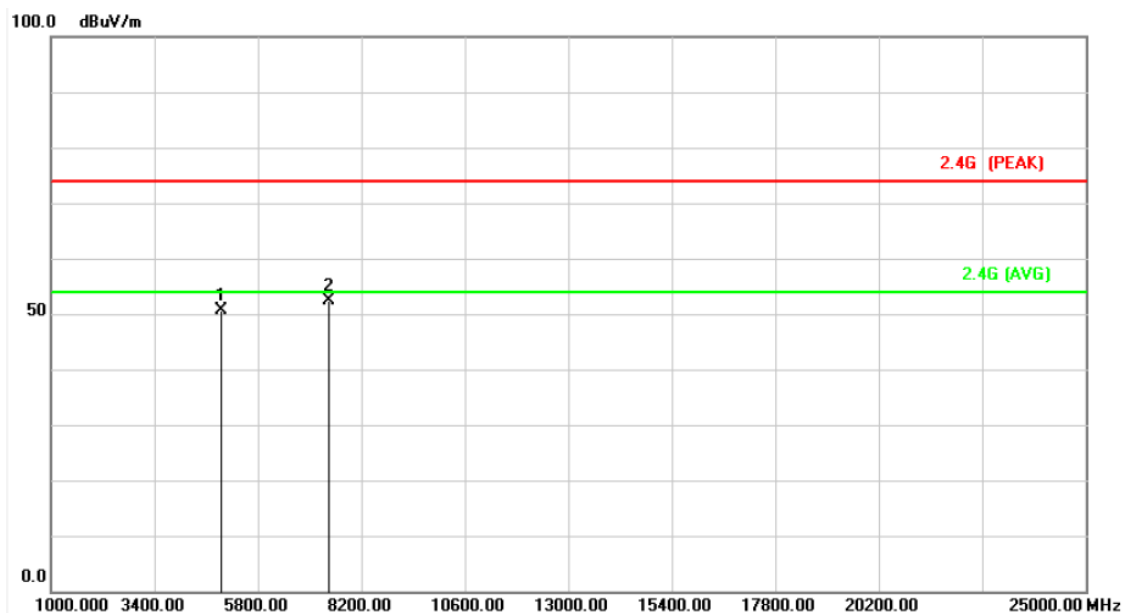
Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



Power	: From DC	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1	Temperature	: 22°C
Test Date	: Dec. 25, 2015	Humidity	: 52%
Memo	: CH39 (1Mbps)	Atmospheric Pressure	: 1008 hpa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	4960.000	8.34	42.21	50.55	74.00	-23.45	peak	100	0	P
2	7440.000	13.84	38.53	52.37	74.00	-21.63	peak	100	0	P

Note: Level = Reading + Factor

Margin = Level – Limit

Factor= Antenna Factor + Cable Loss - Amplifier Factor



6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



6.8 Restrict band emission Measurement Data

Test Date: Dec. 24, 2015

Temperature: 20 °C

Atmospheric pressure: 1050 hPa

Humidity: 51 %

Modulation Standard: GFSK

Duty cycle: 0.2929

AVG Compensate = $10\log(1/\text{duty cycle}) = 5.33$

Channel 00						Fundamental Frequency: 2402 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2390.00	V	59.30	9.02	68.32	Peak	74	54	-5.68	221	1.00
2390.00	V	33.18	14.35	47.53	Ave	74	54	-6.47	221	1.00
2390.00	H	55.28	9.02	64.30	Peak	74	54	-9.70	93	1.06
2390.00	H	33.48	14.35	47.83	Ave	74	54	-6.17	93	1.06
Channel 39						Fundamental Frequency: 2480 MHz				
2483.50	V	62.50	9.39	71.89	Peak	74	54	-2.11	216	1.10
2483.50	V	35.41	14.72	50.13	Ave	74	54	-3.87	216	1.10
2483.50	H	61.49	9.39	70.88	Peak	74	54	-3.12	321	1.06
2483.50	H	35.24	14.72	49.96	Ave	74	54	-4.04	321	1.06

Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz



7. Test of Conducted Spurious Emission

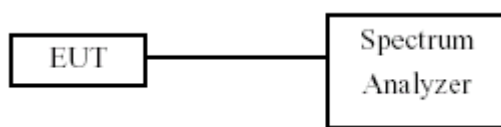
7.1 Test Limit

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

7.2 Test Procedure

- The transmitter output was connected to the spectrum analyzer via a low lose cable.
- Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20dB relative to the maximum measured in-band peak PSD level.
- The band edges was measured and recorded.

7.3 Test Setup Layout



7.4 Test Result and Data

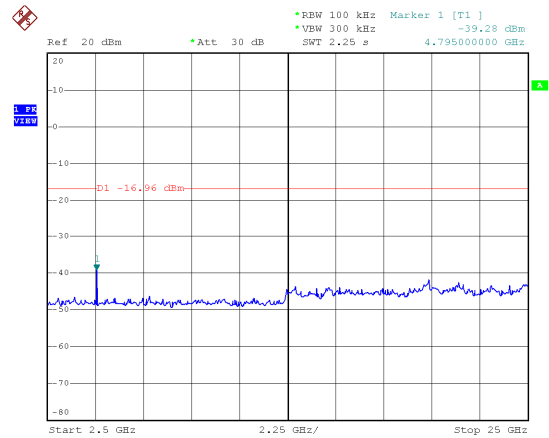
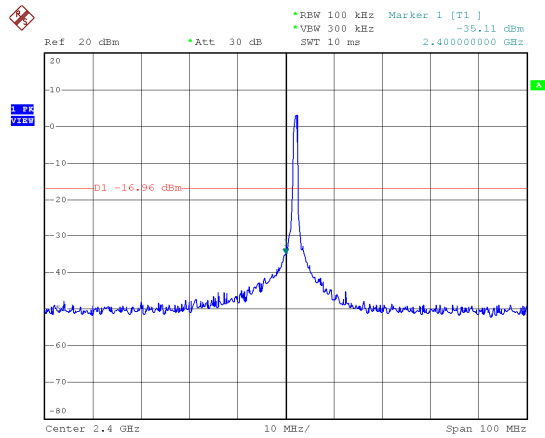
Test Date	: Dec. 24, 2015	Temperature	: 20°C
Atmospheric pressure	: 1050 hPa	Humidity	: 51%
Test Result	: PASS		

Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency(MHz)	maximum value (dBm)	Limit (dBm)
GFSK	0	2402	2400.00	-35.11	-16.96
	39	2480	2483.50	-41.16	-17.85

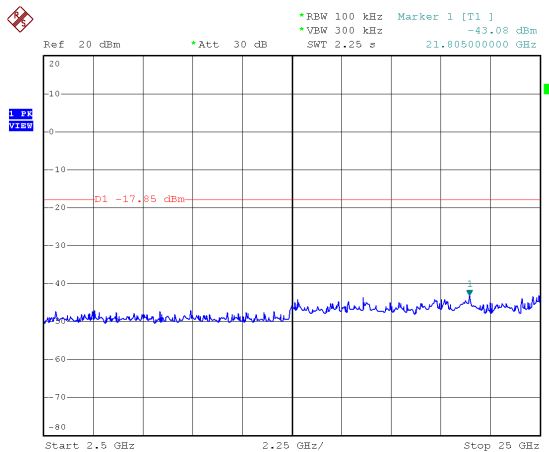
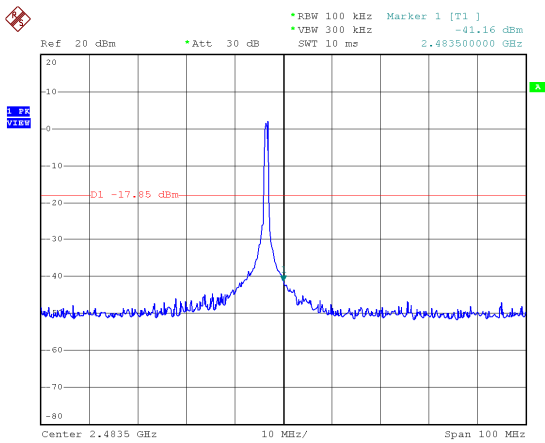
Note: Test plots refer to the following pages.



Modulation Type: GFSK
CH00



CH39





8. 6dB Bandwidth Measurement Data

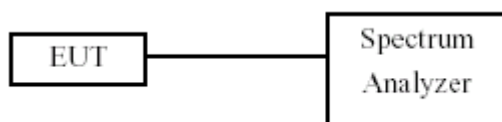
8.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

8.2 Test Procedures

1. The transmitter output was connected to the spectrum analyzer.
2. Set RBW of spectrum analyzer to 1~5% of the emission bandwidth and VBW $\geq$ 3x RBW.
3. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
4. The 6dB Bandwidth was measured and recorded.

8.3 Test Setup Layout



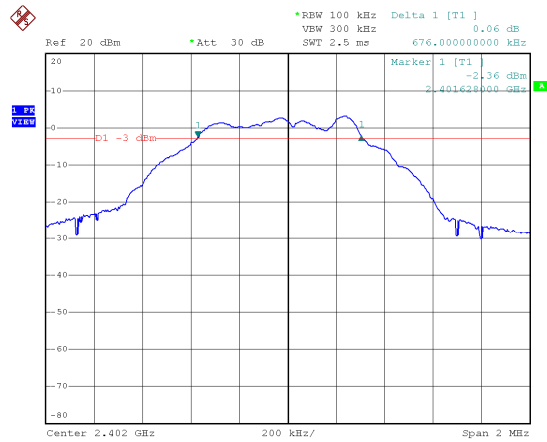
8.4 Test Result and Data

Test Date : Dec. 24, 2015 Temperature : 20°C
Atmospheric pressure : 1050 hPa Humidity : 51%

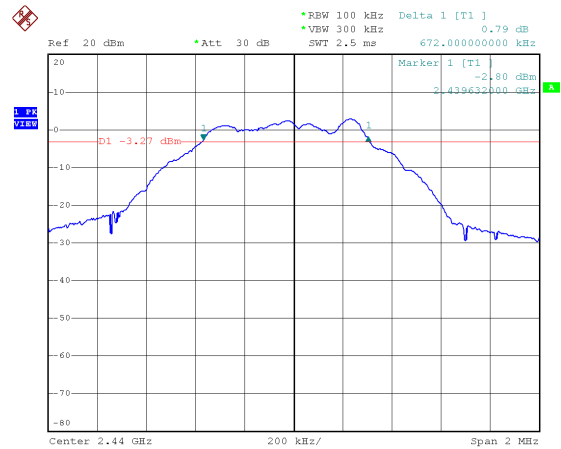
Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (KHz)
GFSK (1Mbps)	00	2402	676.00
	19	2440	672.00
	39	2480	688.00



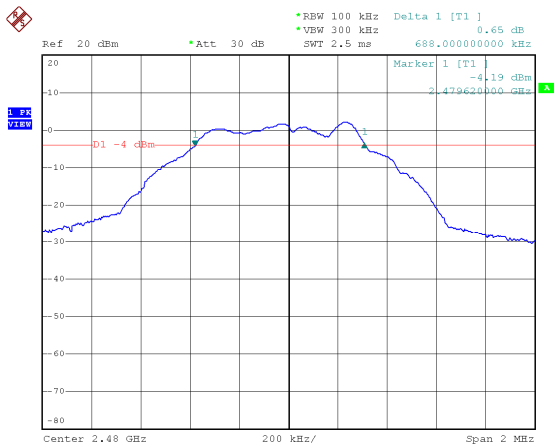
Modulation Type: GFSK(1Mbps), CH0



CH19



CH39





9. Maximum Peak and Average Output Power

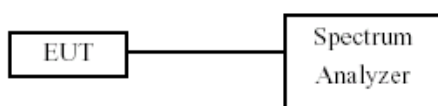
9.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

9.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

9.3 Test Setup Layout



9.4 Test Result and Data

Test Date : Dec. 24, 2015 Temperature : 20°C
Atmospheric pressure : 1050 hPa Humidity : 51%

Modulation Type	Channel	Frequency (MHz)	Power Output (dBm)		Power Output (mW)	
			Peak	AVG.	Peak	AVG.
GFSK (1Mbps)	00	2402	4.53	-1.88	2.84	0.65
	19	2440	4.18	-2.27	2.62	0.59
	39	2480	3.81	-2.71	2.40	0.54



10. Power Spectral Density

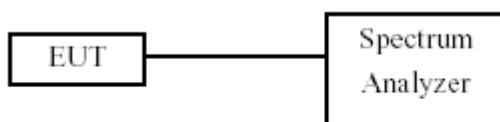
10.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

10.2 Test Procedures

- The transmitter output was connected to spectrum analyzer.
- The spectrum analyzer's resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- The power spectral density was measured and recorded.

10.3 Test Setup Layout



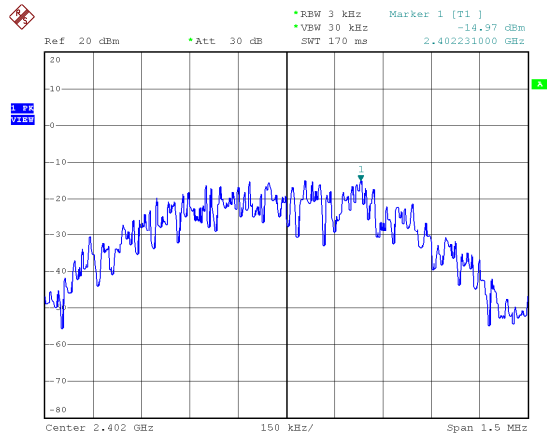
10.4 Test Result and Data

Test Date : Dec. 24, 2015 Temperature : 20°C
Atmospheric pressure : 1050 hPa Humidity : 51%

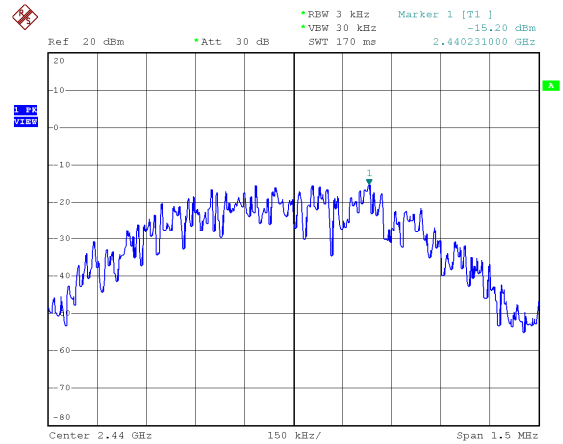
Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)
GFSK (1Mbps)	00	2402	-14.97
	19	2440	-15.20
	39	2480	-15.95



Modulation Type: GFSK(1Mbps), CH0



CH19



CH39

