FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Bluetooth Keyboard
Model: JHM-B84, JHM-700, JHM-B115, JHM-B113
Brand: N/A

Test Report Number:

C140514Z07-RP1

Prepared for

Donggun Jinhongmei Electronics Co.,Ltd.

4-5/F., Block A, No.9 Hebeiling Road 2, Guanjintou Village, Fenggang Town, Dongguan City, China

Prepared by

COMPLIANCE CERTIFICATION SERVICES (SHENZHEN) INC.
No.10-1, Mingkeda Logistics Park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen China
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Issued Date: June 9, 2014

ACCREDITED
TESTING CERT #2861.01

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Revision History

Rev.	Issue No.	Revisions	Effect Page	Revised By
00	C140514Z07-RP1	Initial Issue	ALL	Nancy Fu

TABLE OF CONTENTS

1. TEST RESULT CERTIFICATION

Product	Bluetooth Keyboard
Model	JHM-B84, JHM-700, JHM-B115, JHM-B113
Brand	N/A
Tested	May 14~ June 10, 2014
Applicant	**Donggun Jinhongmei Electronics Co.,Ltd.** 4-5/F., Block A, No.9 Hebeiling Road 2, Guanjintou Village, Fenggang Town, Dongguan City, China
Manufacturer	**Donggun Jinhongmei Electronics Co.,Ltd.** 4-5/F., Block A, No.9 Hebeiling Road 2, Guanjintou Village, Fenggang Town, Dongguan City, China

APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
FCC 47 CFR Part 15 Subpart C	No non-compliance noted

We hereby certify that:

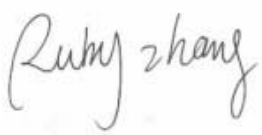
The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4:2009 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.207, 15.209 and 15.247.

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

Approved by:

Sunday Hu
Supervisor of EMC Dept.
Compliance Certification Service Inc.

Reviewed by:



Ruby Zhang
Supervisor of Report Dept.
Compliance Certification Service Inc.

2. EUT DESCRIPTION

Product	Bluetooth Keyboard
Model Number	JHM-B84, JHM-700, JHM-B115, JHM-B113
Brand	N/A
Model Discrepancy	All models are identical to each other except their model names and appearance.
Identify Number	C140514Z07-RP1
Power Supply	DC3.7V supplied by the battery or DC5V supplied by PC
Received Date	May 14, 2014
Frequency Range	2402 ~ 2480 MHz
Transmit Power	GFSK : -2.93dBm 8DPSK : -2.93dBm
Modulation Technique	FHSS (GFSK for 1Mbps, π/4-DQPSK for 2Mbps, 8DPSK for 3Mbps)
Number of Channels	79 Channels
Antenna Specification	PCB Antenna with 2dBi gain(Max)
Temperature Range	0°C ~ +40°C
USB Cable	Shielded, 1.55m

Note: *This submittal(s) (test report) is intended for FCC ID: 2AC7SJHM-B84 filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.*

3. TEST METHODOLOGY

3.1 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.
Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
The following test mode(s) were scanned during the preliminary test below 1G:

Test Item	Test mode	Worse mode
Conducted Emission	Mode 1: Charge by PC and BT play	☒
Radiated Emission	Mode 1: TX	☒

Above 1G, Channel Low (2402MHz)、Mid (2441MHz) and High (2480MHz) were chosen for full testing for GFSK and 8DPSK.

4. FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

☒ **No.10-1, Mingkeda Logistics Park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen, China**

The sites are constructed in conformance with the requirements of ANSI C63.4:2009, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

4.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA	A2LA
China	CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA	FCC
Japan	VCCI(C-3478, R-3135, T-652, G-624)
Canada	INDUSTRY CANADA
Taiwan	BSMI
Norway	Nemko

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccsrf.com

4.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	*Uncertainty*
Radiated Emission, 30 to 200 MHz Test Site : 966(2)	+/-3.6880dB
Radiated Emission, 200 to 1000 MHz Test Site : 966(2)	+/-3.6695dB
Radiated Emission, 1 to 8 GHz	+/-5.1782dB
Radiated Emission, 8 to 18 GHz	+/-5.2173dB
Conducted Emissions	+/-3.6836dB
Band Width	178kHz
Peak Output Power MU	+/-1.906dB
Band Edge MU	+/-0.182dB
Channel Separation MU	416.178Hz
Duty Cycle MU	0.054ms
Frequency Stability MU	226Hz

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

The measured result is above (below) the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance (non-compliance) is more probable than non-compliance) with the specification limit.

5. SETUP OF EQUIPMENT UNDER TEST

5.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

5.2 SUPPORT EQUIPMENT

No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
1	PC	OPTIPLEX780	C7X53X	N/A	DELL	N/A	Unshielded 1.80m
2	Monitor	S2440LB	CN0N5XDC7426131 EOGZQ	N/A	DELL	Unshielded 1.20m	Unshielded 1.80m
3	Printer	D1668	CN9CKCB2RG	N/A	HP	Unshielded 1.50m	Unshielded 1.50m
4	Modem	DU-562M	ES1X268007883	N/A	D-LINK	Unshielded 1.50m	N/A
5	Mouse	MS111-P	J1101ANN	N/A	DELL	Unshielded 1.80m	N/A

Notes:

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

6. FCC PART 15.247 REQUIREMENTS

6.1 20dB BANDWIDTH

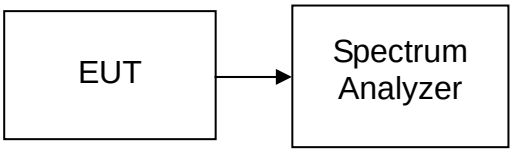
None; for reporting purpose only.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY52221469	10/25/2013	10/24/2014

Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST CONFIGURATION



TEST PROCEDURE

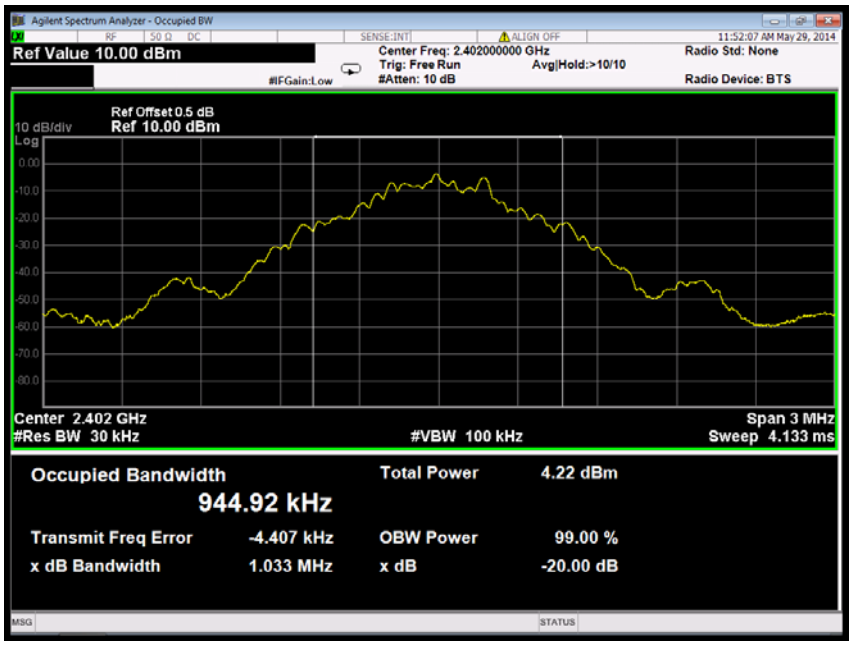
1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT, then connect a low loss RF cable from antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=30kHz, VBW=100kHz, Span=3MHz, Sweep = auto.
4. Mark the peak frequency and 20dB (upper and lower) frequency.
5. Repeat until all the test channels are investigated.

TEST RESULTS

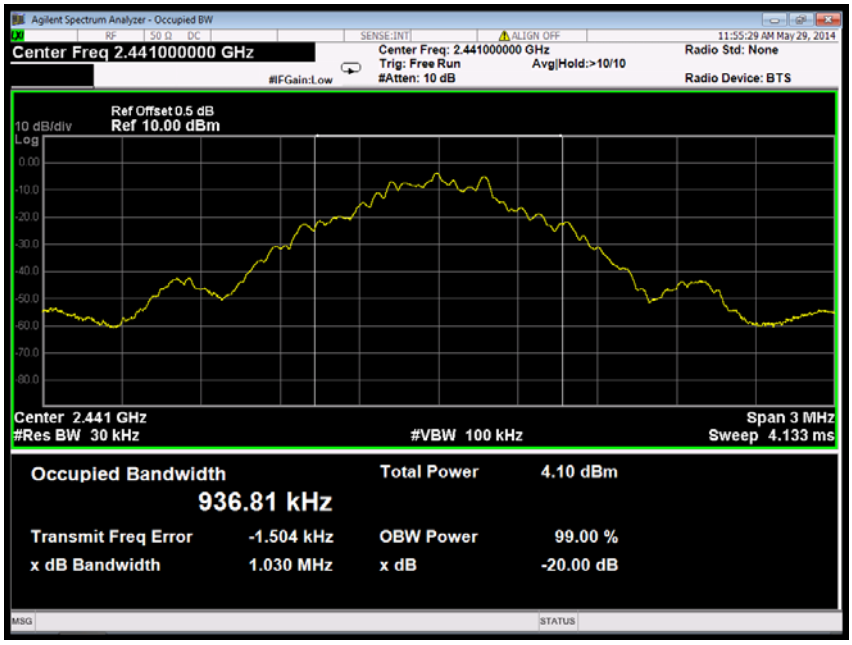
No non-compliance noted

Test plot
GFSK

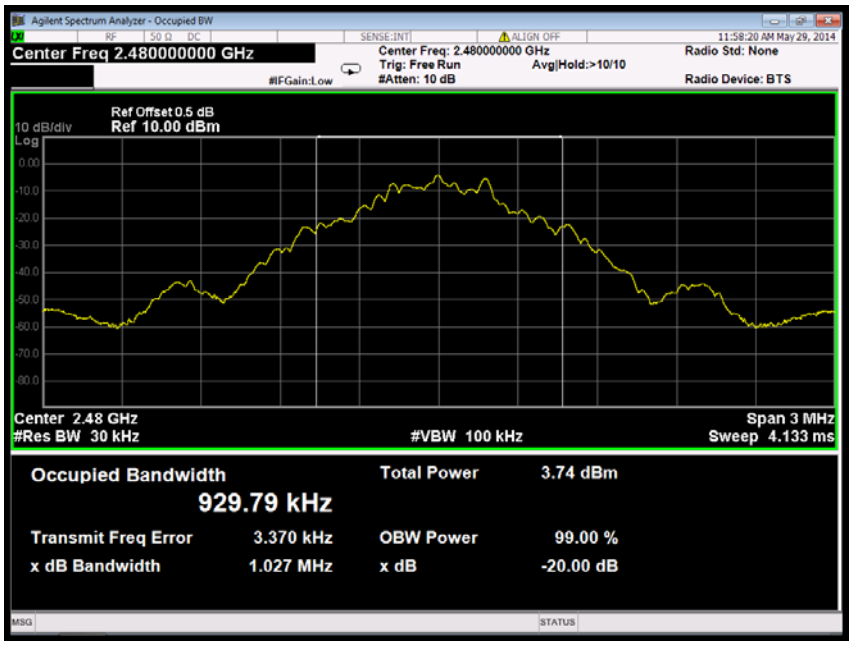
20dB Bandwidth(CH Low)



20dB Bandwidth (CH Mid)

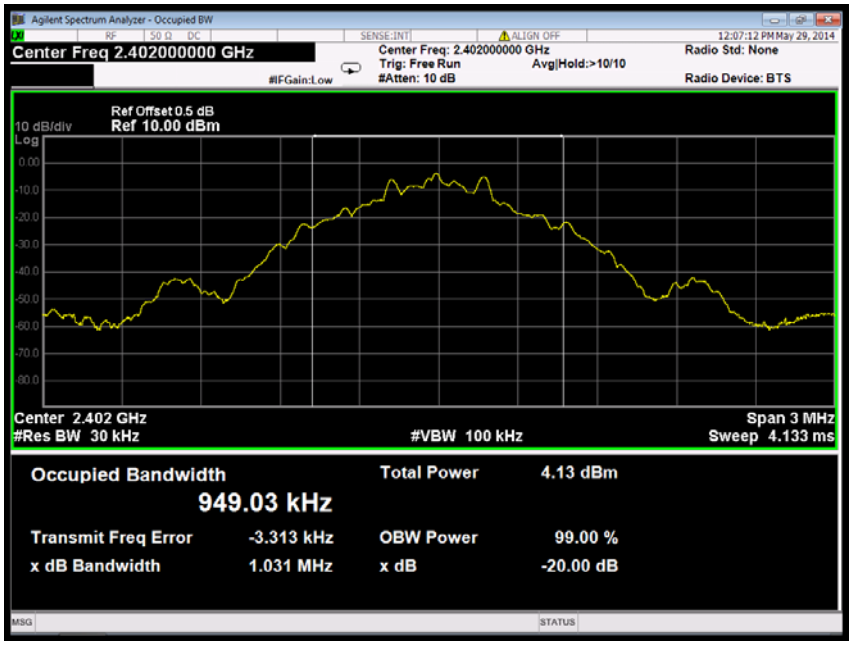


20dB Bandwidth (CH High)

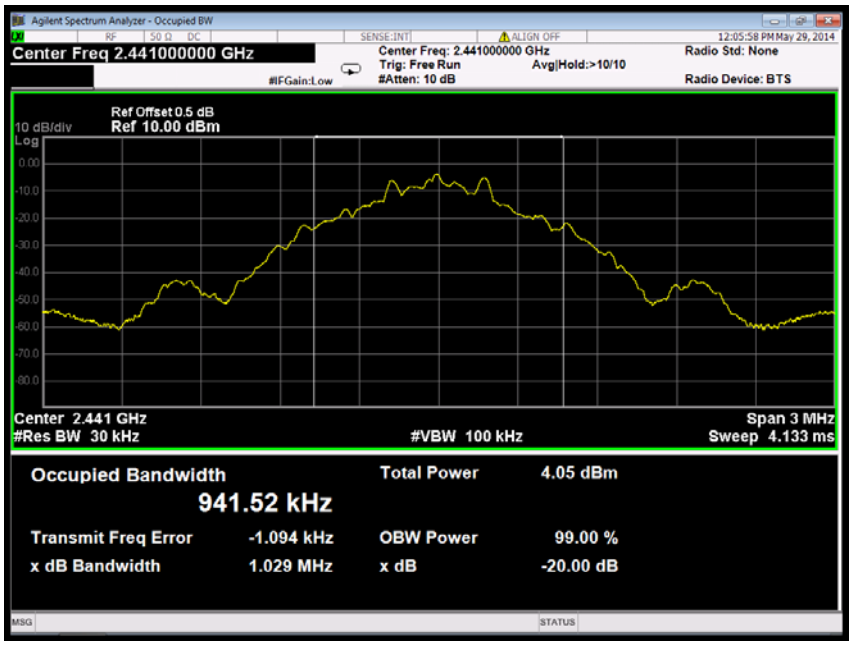


8DPSK

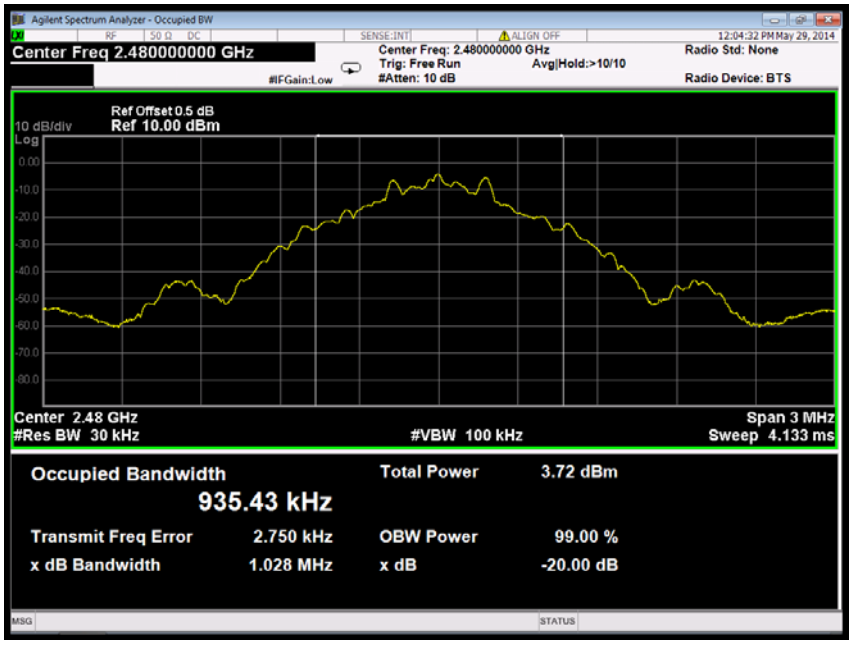
20dB Bandwidth (CH Low)



20dB Bandwidth (CH Mid)



20dB Bandwidth (CH High)



6.2 PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

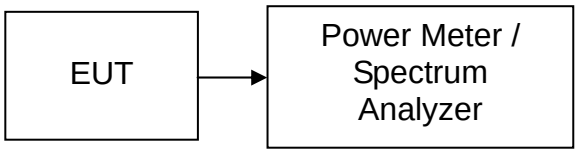
1. For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6dBi.
3. 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.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Power Meter	Anritsu	ML2495A	1204003	03/09/2014	03/08/2015
Power Sensor	Anritsu	MA2411B	1126150	03/09/2014	03/08/2015
Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2014	03/01/2015

Remark: *Each piece of equipment is scheduled for calibration once a year.*

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the RF Power Meter. The RF Power Meter is set to the peak power detection.

TEST RESULTS

No non-compliance noted

Test Data

GFSK

Channel	Frequency (MHz)	Reading Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2402	-6.65	3.50	-3.15	0.00048	1	PASS
Mid	2441	-6.43	3.50	-2.93	0.00051		PASS
High	2480	-6.52	3.50	-3.02	0.00050		PASS

8DPSK

Channel	Frequency (MHz)	Reading Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2402	-6.64	3.50	-3.14	0.00049	1	PASS
Mid	2441	-6.43	3.50	-2.93	0.00051		PASS
High	2480	-6.49	3.50	-2.99	0.00050		PASS

6.3 PEAK POWER SPECTRAL DENSITY

LIMIT

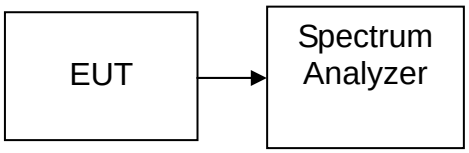
1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2014	03/01/2015

Remark: *Each piece of equipment is scheduled for calibration once a year.*

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 300kHz, Sweep=100s
4. Record the max. reading.
5. Repeat the above procedure until the measurements for all frequencies are completed.

TEST RESULTS

Not applicable. Since EUT is the Bluetooth device.

6.4 BAND EDGES MEASUREMENT

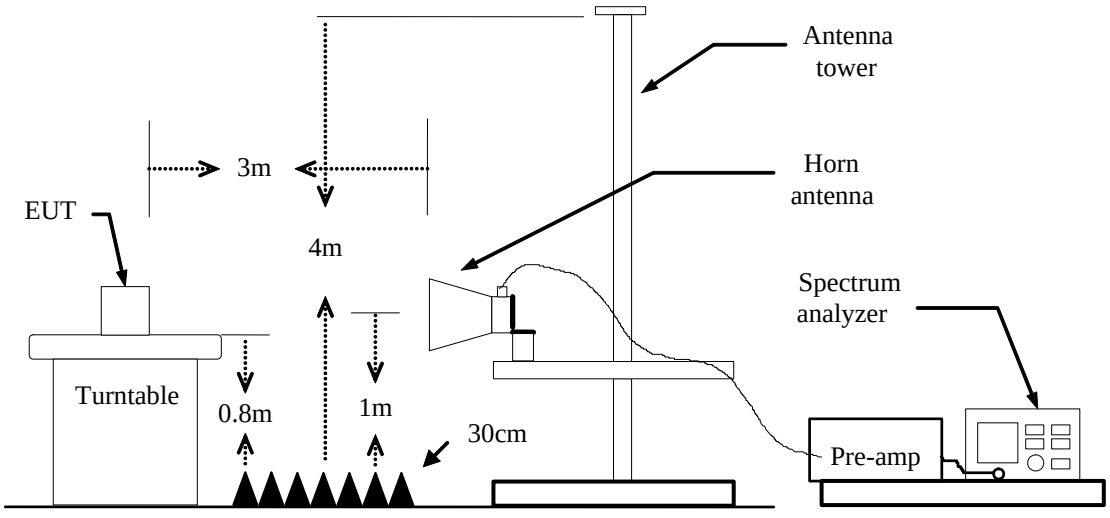
LIMIT

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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, 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 in15.209(a).

MEASUREMENT EQUIPMENT USED

Radiated Emission Test Site 966(2)					
Name of Equipment	**Manufacturer**	**Model Number**	**Serial Number**	**Last Calibration**	**Due Calibration**
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2014	03/01/2015
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	03/09/2014	03/08/2015
Amplifier	MITEQ	AM-1604-3000	1123808	03/18/2015	03/18/2015
High Noise Amplifier	Agilent	8449B	3008A01838	03/18/2015	03/18/2015
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	07/10/2013	07/09/2014
Bilog Antenna	SCHAFFNER	CBL6143	5082	03/01/2014	03/01/2015
Horn Antenna	SCHWARZBECK	BBHA9120	D286	03/01/2014	03/01/2015
Loop Antenna	A、R、A	PLA-1030/B	1029	09/27/2013	09/26/2014
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/28/2014	02/28/2015
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

Test Configuration



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
   (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
   (b) AVERAGE: RBW=1MHz / VBW=2.4kHz / Sweep=AUTO
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

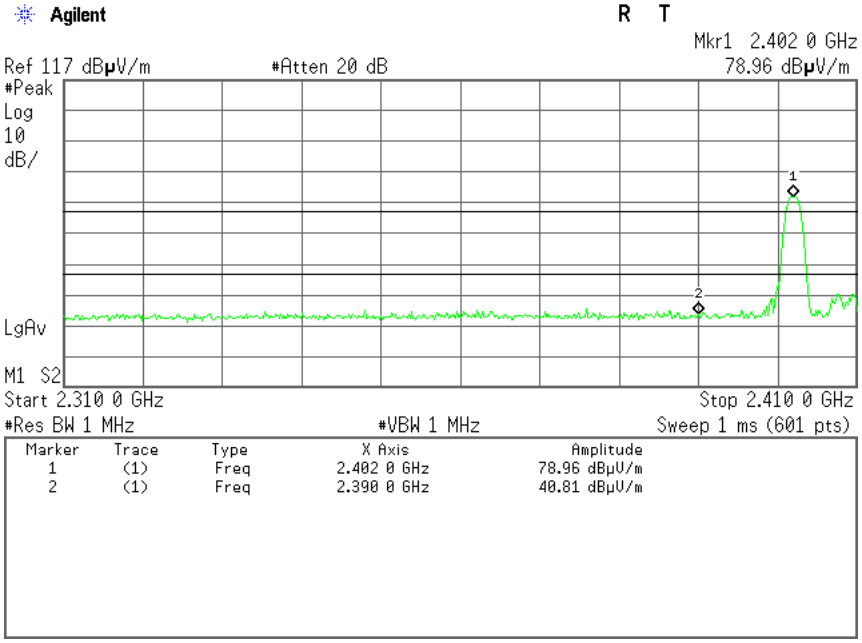
TEST RESULTS

Refer to attach spectrum analyzer data chart.

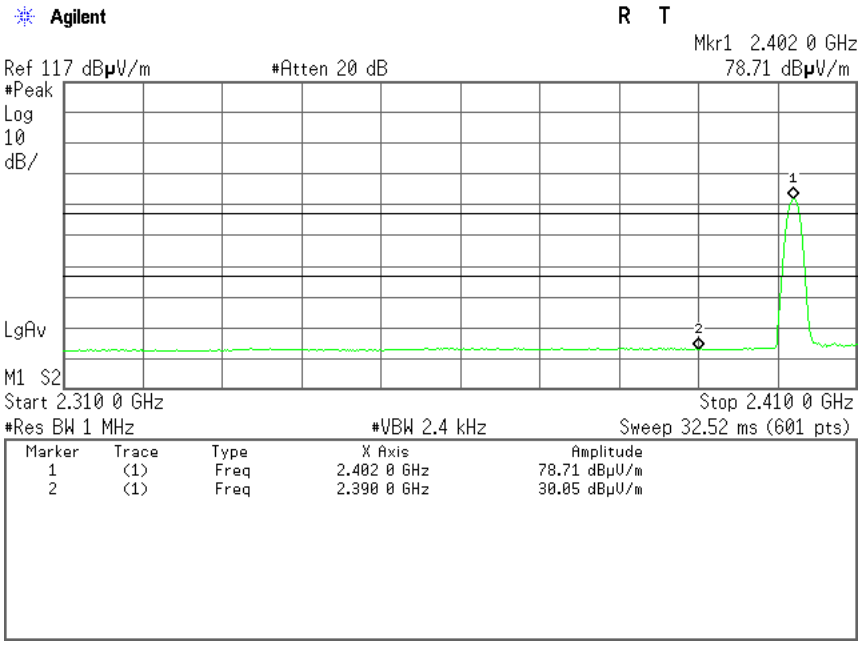
Test Data (GFSK)

Band Edges (CH-Low)

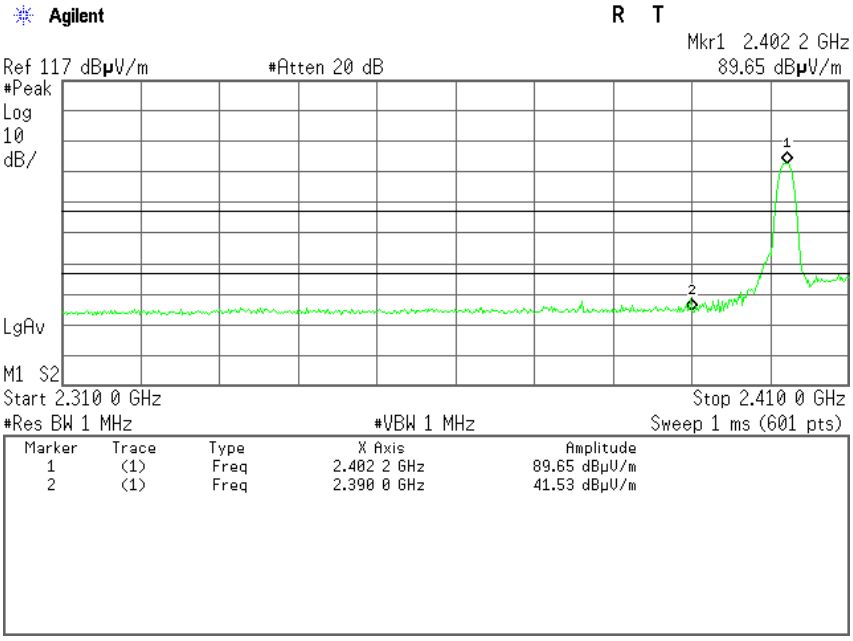
Detector mode: Peak **Polarity: Vertical**



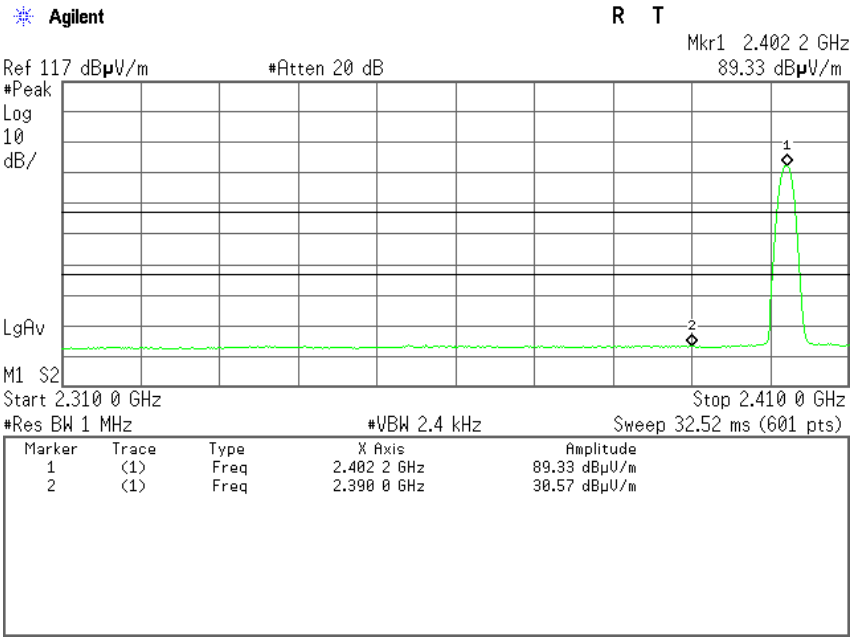
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

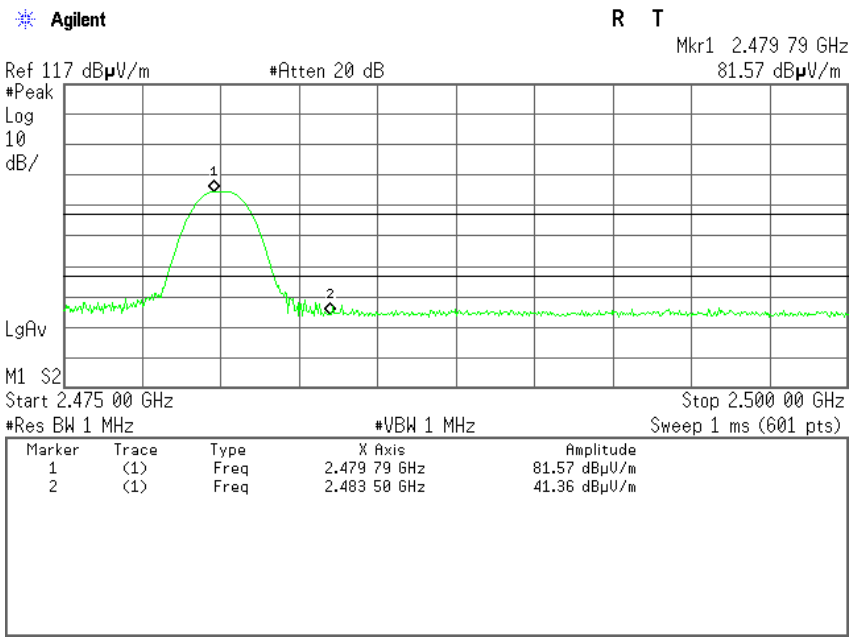


Detector mode: Average **Polarity: Horizontal**

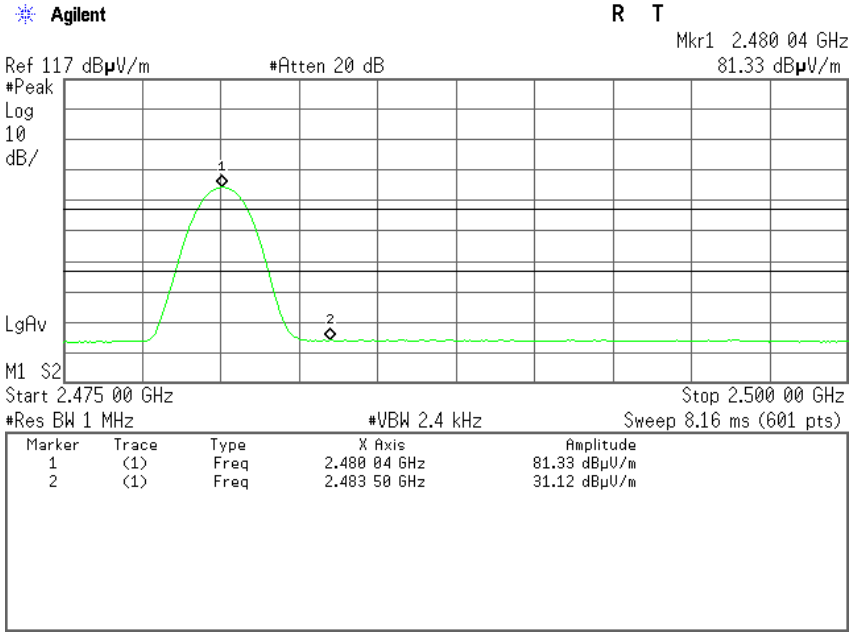


Band Edges (CH-High)

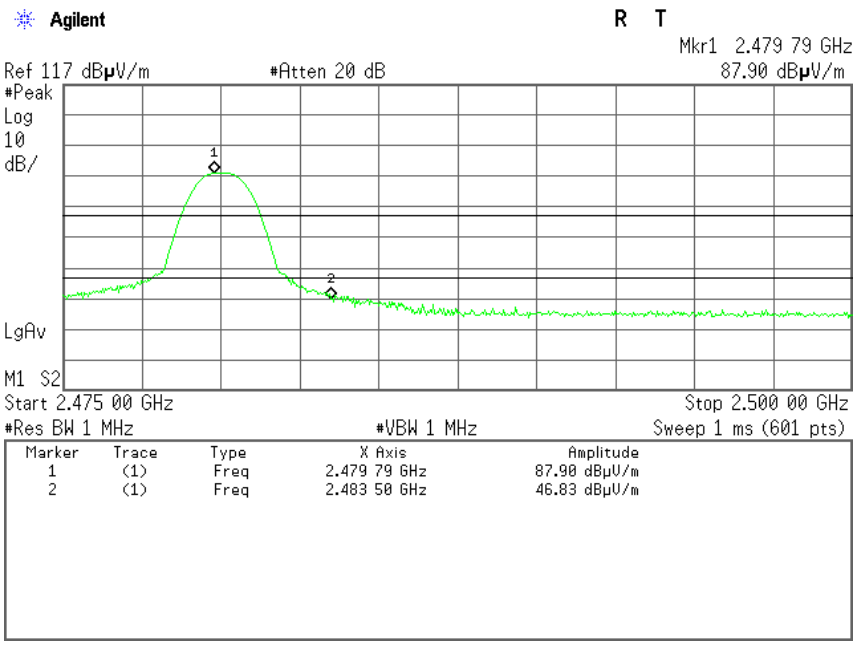
Detector mode: Peak **Polarity: Vertical**



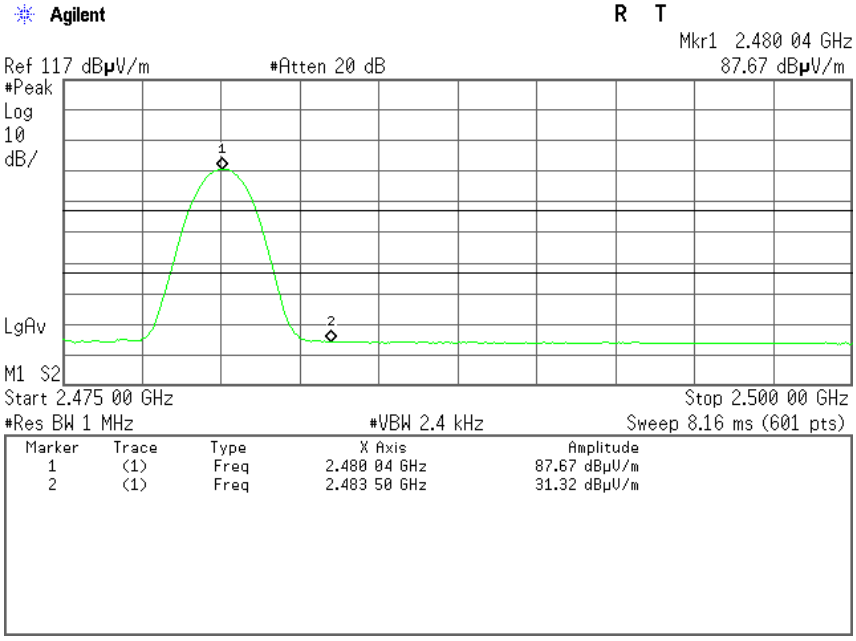
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**



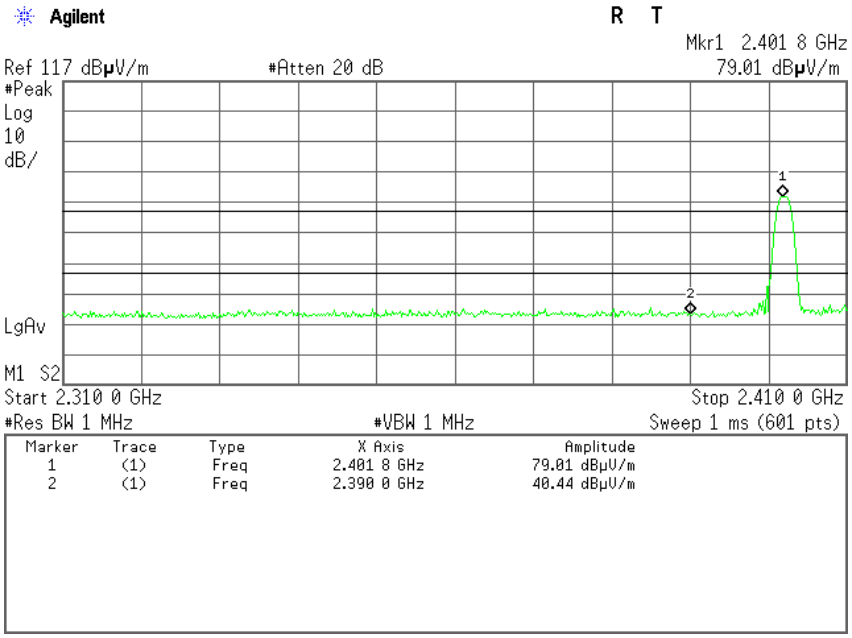
Detector mode: Average **Polarity: Horizontal**



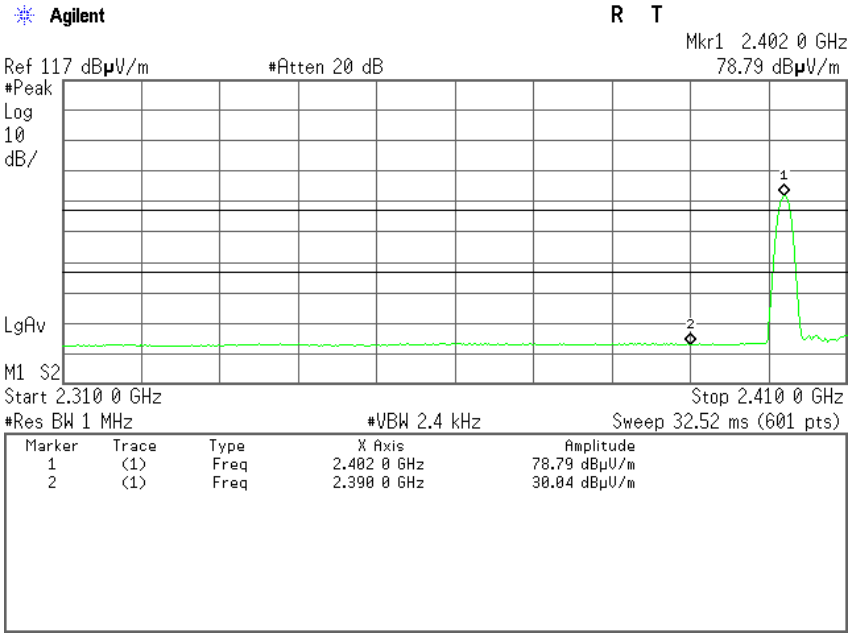
8DPSK

Band Edges (CH-Low)

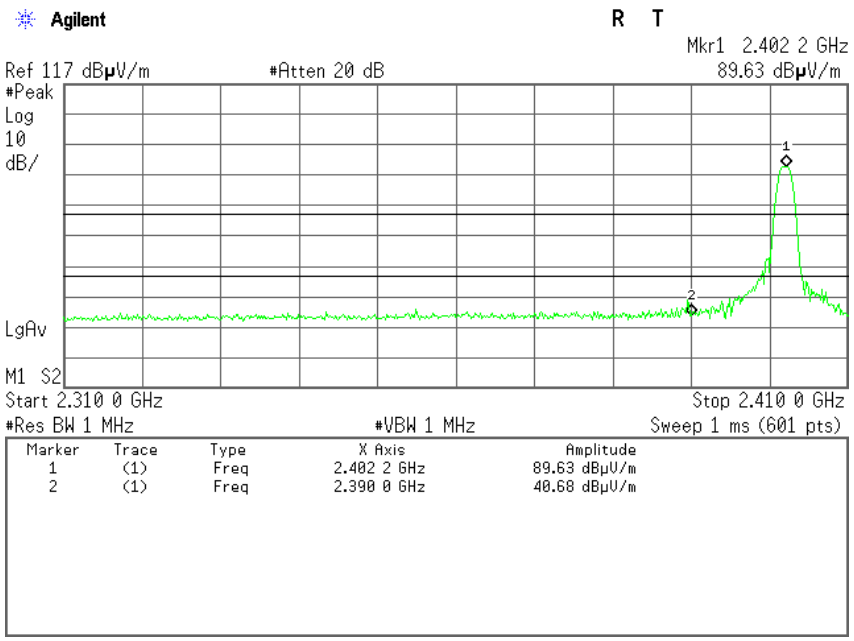
Detector mode: Peak **Polarity: Vertical**



Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**



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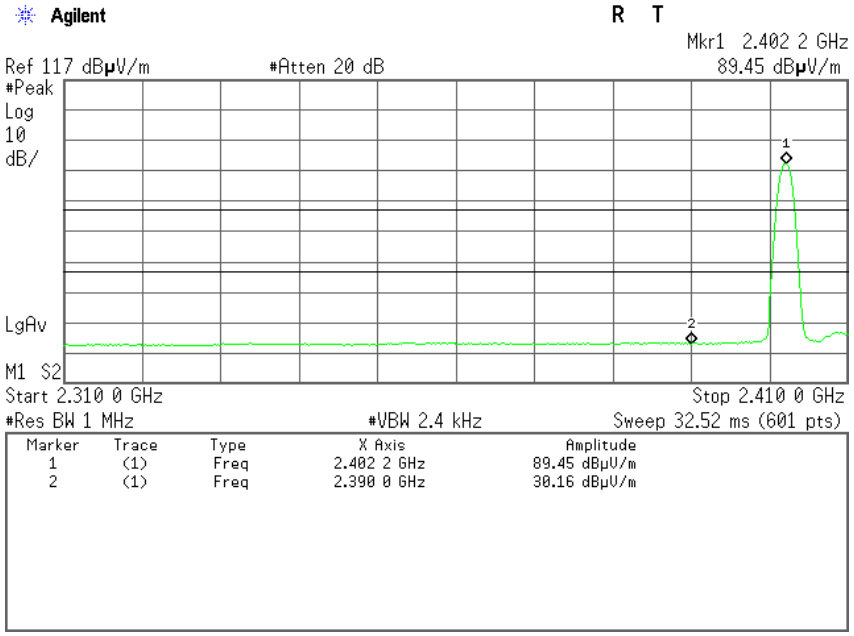

Band Edges (CH-High)

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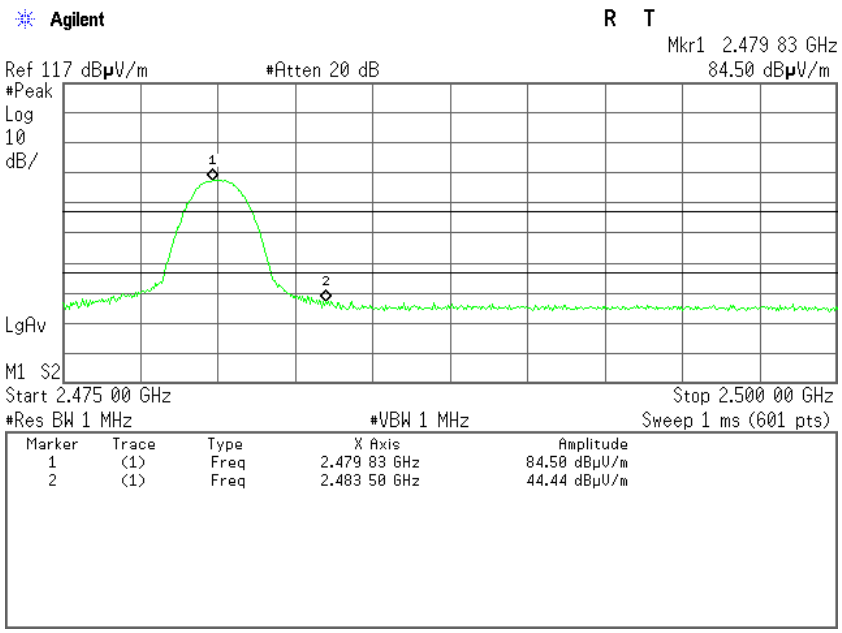
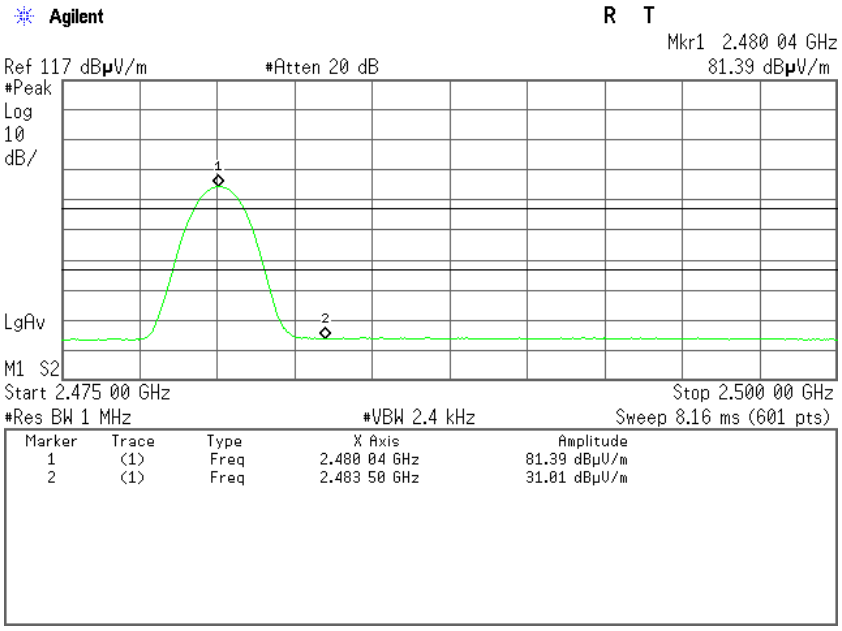
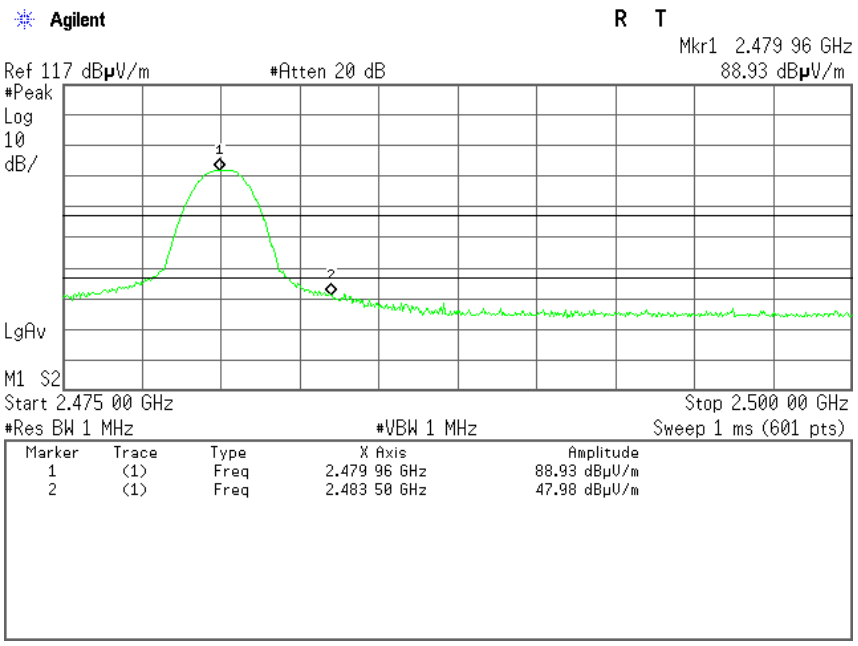


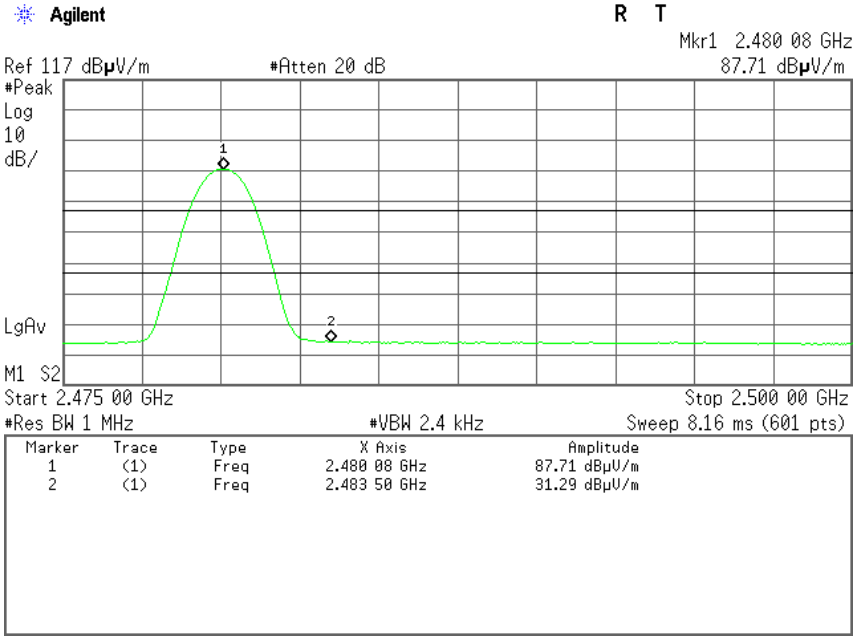
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**



Detector mode: Average **Polarity: Horizontal**



6.5 FREQUENCY SEPARATION

LIMIT

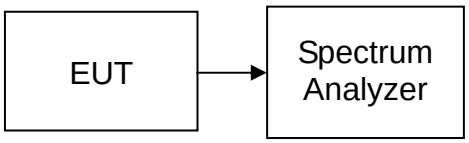
According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY52221469	10/25/2013	10/24/2014

Remark: *Each piece of equipment is scheduled for calibration once a year.*

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = middle of hopping channel.
4. Set the spectrum analyzer as RBW=30kHz, VBW=30kHz, Adjust Span to 3 MHz, Sweep = auto.
5. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

TEST RESULTS

No non-compliance noted

Test Data

GFSK

Channel Separation (MHz)	Two-thirds of the 20 dB Bandwidth (kHz)	Channel Separation Limit	Result
1.000	688.667	> Two-thirds of the 20 dB Bandwidth	Pass

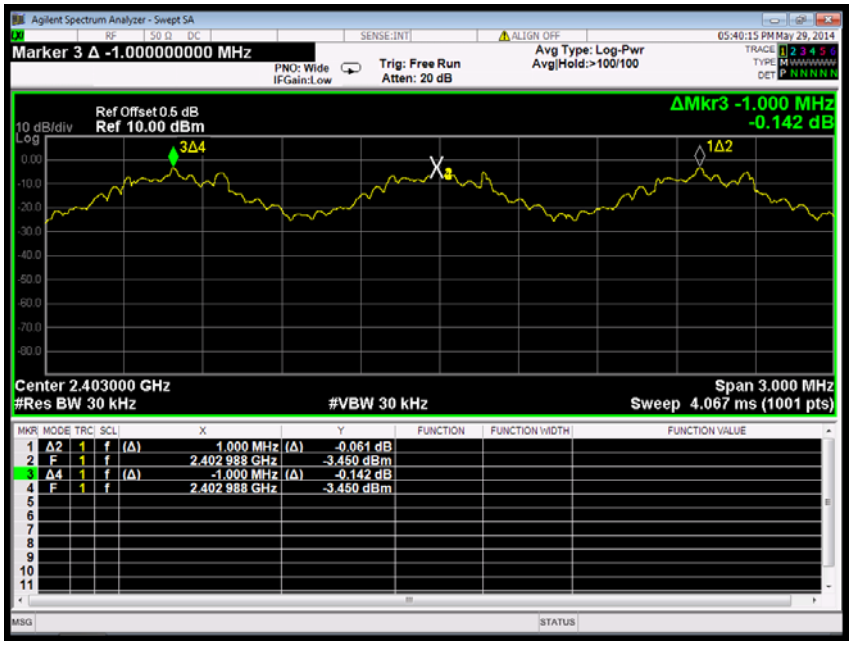
8DPSK

Channel Separation (MHz)	Two-thirds of the 20 dB Bandwidth (kHz)	Channel Separation Limit	Result
1.000	887.333	> Two-thirds of the 20 dB Bandwidth	Pass

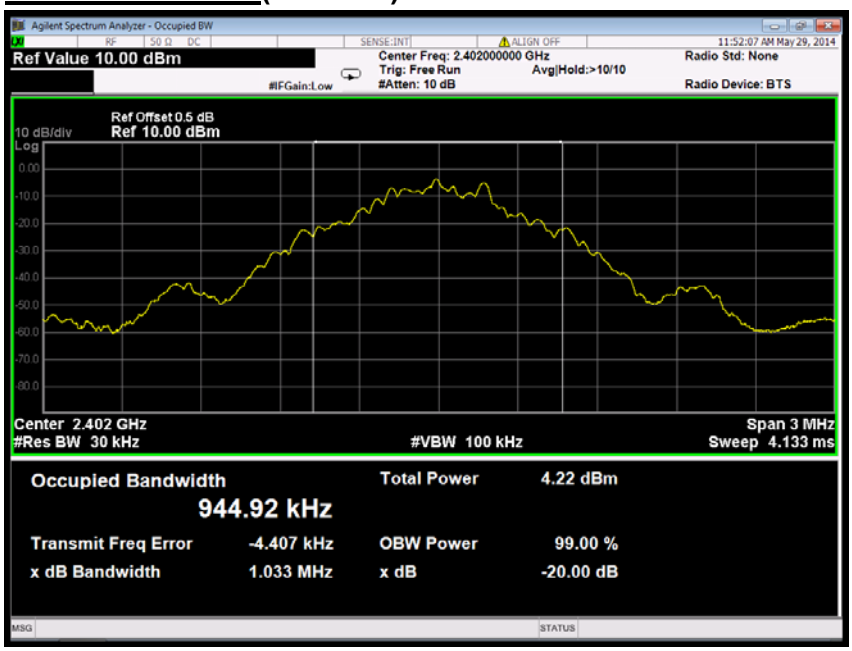
GFSK

Test Plot

Measurement of Channel Separation



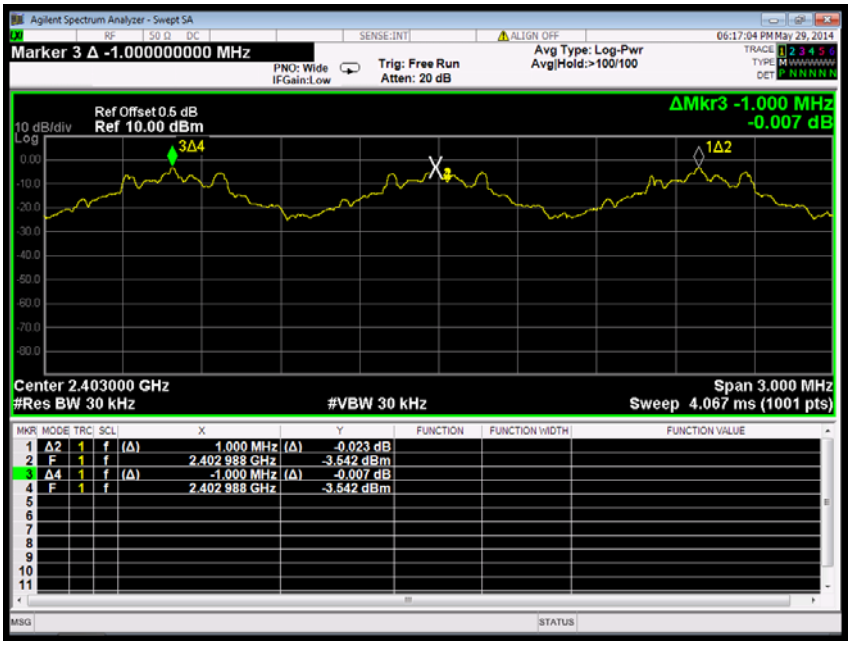
20 dB bandwidth(CH Low)



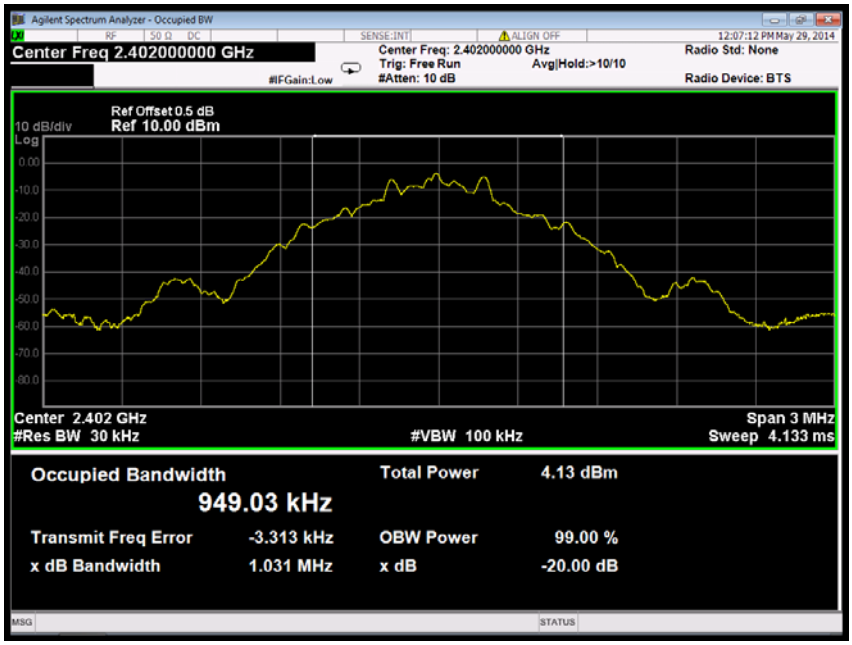
8DPSK

Test Plot

Measurement of Channel Separation



20 dB bandwidth(CH Low)



6.6 NUMBER OF HOPPING FREQUENCY

LIMIT

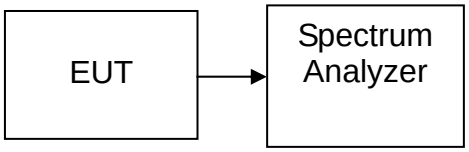
According to §15.247(a)(1)(ii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY52221469	10/25/2013	10/24/2014

Remark: *Each piece of equipment is scheduled for calibration once a year.*

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set spectrum analyzer Start=2400MHz, Stop = 2441.5MHz, Sweep = 1ms and Start=2441.5MHz, Stop = 2483.5MHz, Sweep = 1ms.
4. Set the spectrum analyzer as RBW, VBW=300kHz,
5. Max hold, view and count how many channel in the band.

TEST RESULTS

No non-compliance noted

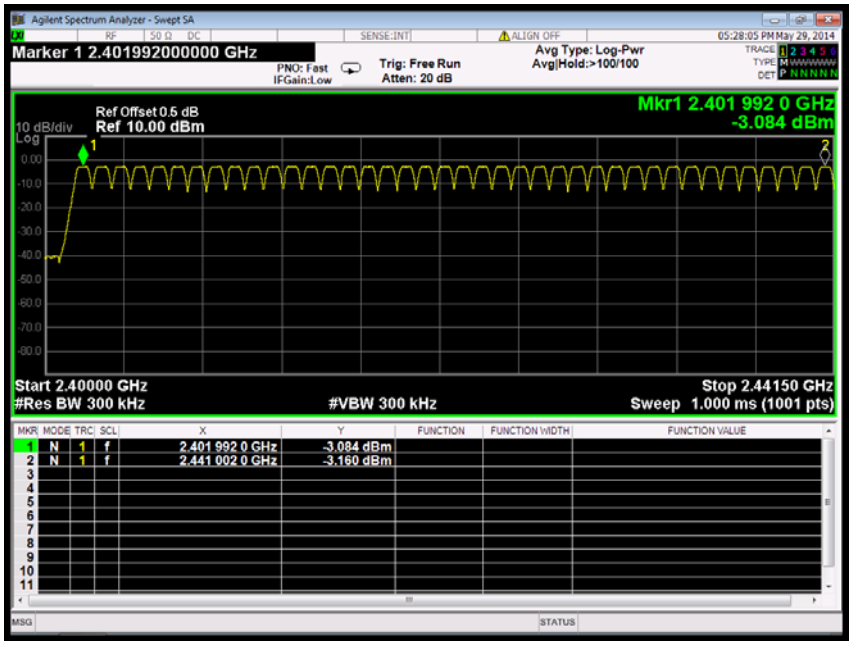
Test Data

Result (No. of CH)	Limit (No. of CH)	Result
79	>15	PASS

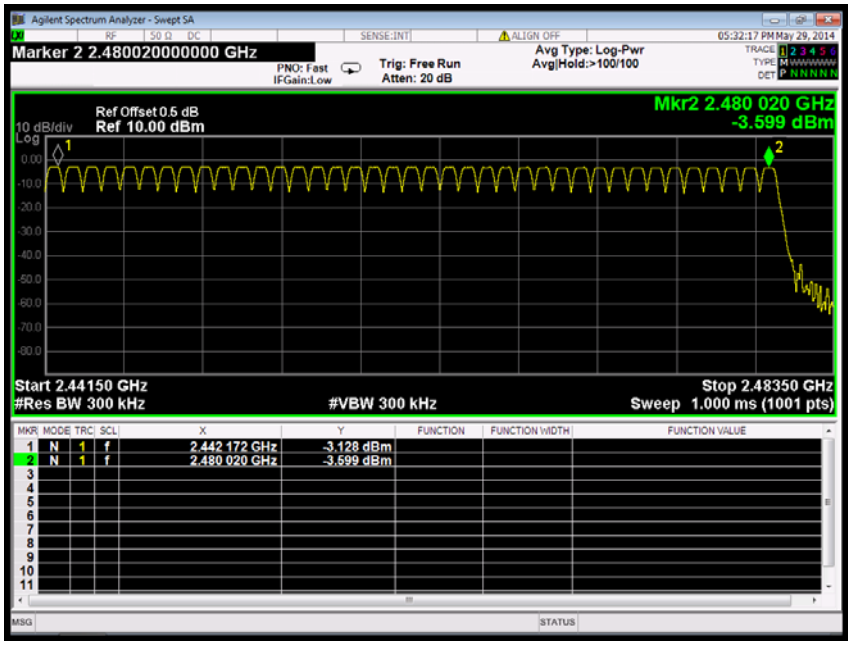
Test Plot (GFSK)

Channel Number

2.400 GHz – 2.4415 GHz



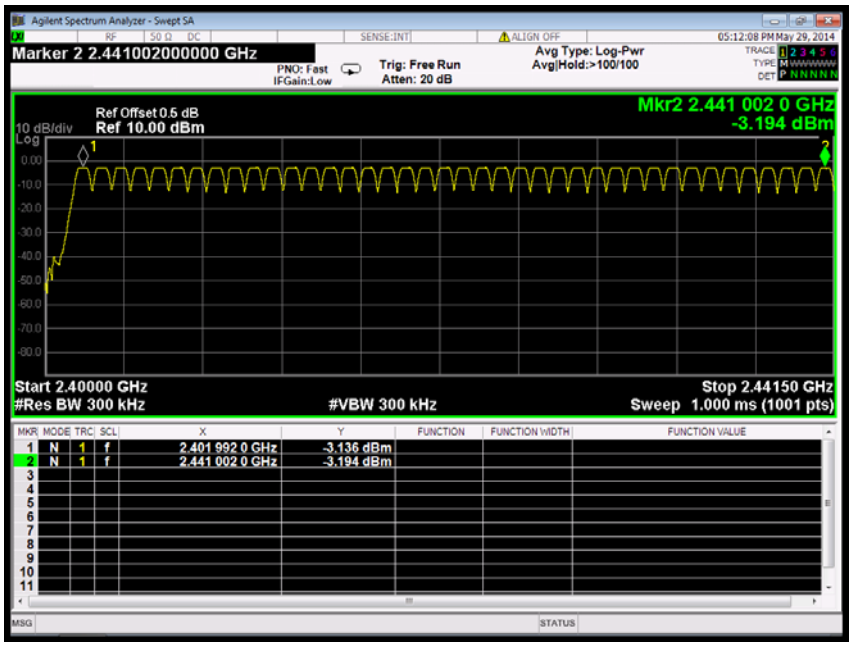
2.4415 GHz –2.4835 GHz



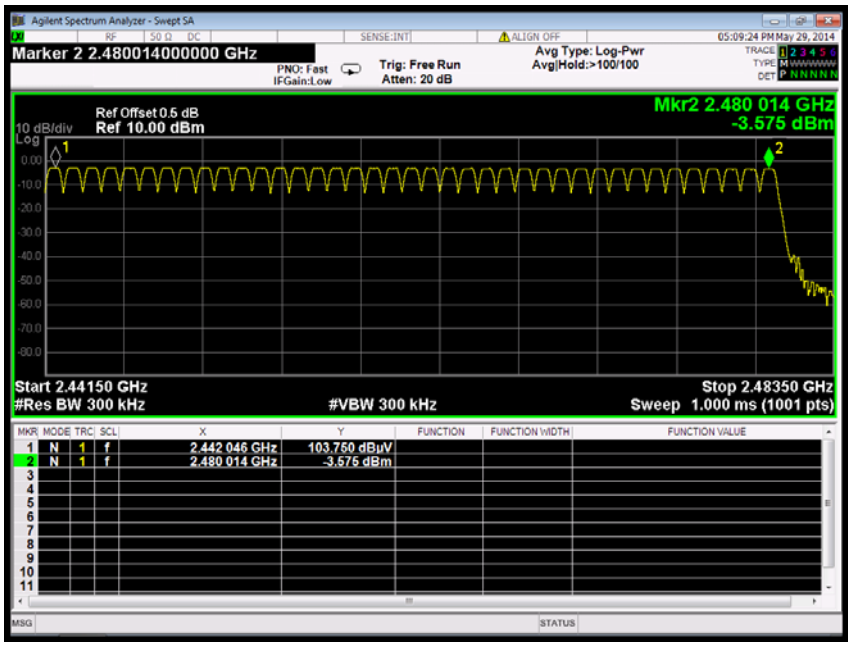
Test Plot (8DPSK)

Channel Number

2.400 GHz – 2.4415 GHz



2.4415 GHz –2.4835 GHz



6.7 TIME OF OCCUPANCY (DWELL TIME)

LIMIT

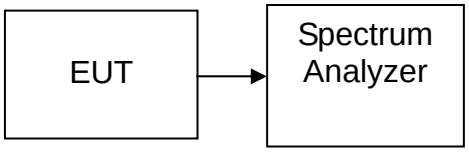
According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	ROHDE&SCHWAR	FSU	200409	09/23/2013	09/22/2014

Remark: *Each piece of equipment is scheduled for calibration once a year.*

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
5. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

No non-compliance noted

Test Data

GFSK

DH 1

CH High: 0.447* (1600/2)/79 * 31.6 = 143.040 (ms)

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
High	0.447	143.040	31.60	400.00	PASS

DH 3

CH High: 1.704* (1600/4)/79 * 31.6 = 272.640 (ms)

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
High	1.704	272.640	31.60	400.00	PASS

DH 5

CH High: 2.968* (1600/6)/79 * 31.6 = 316.587(ms)

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
High	2.968	316.587	31.60	400.00	PASS

Test Data

8DPSK

DH 1

CH High: 0.454* (1600/2)/79 * 31.6 = 145.280 (ms)

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
High	0.454	145.280	31.60	400.00	PASS

DH 3

CH High: 1.704* (1600/4)/79 * 31.6 = 272.640 (ms)

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
High	1.704	272.640	31.60	400.00	PASS

DH 5

CH High: 2.960* (1600/6)/79 * 31.6 = 315.733 (ms)

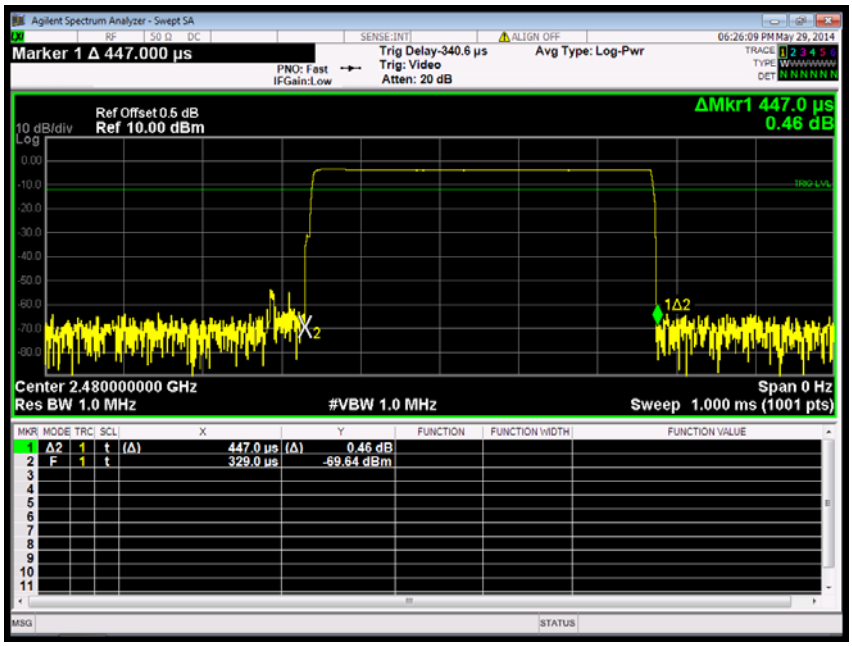
CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
High	2.960	315.733	31.60	400.00	PASS

Test Plot

GFSK

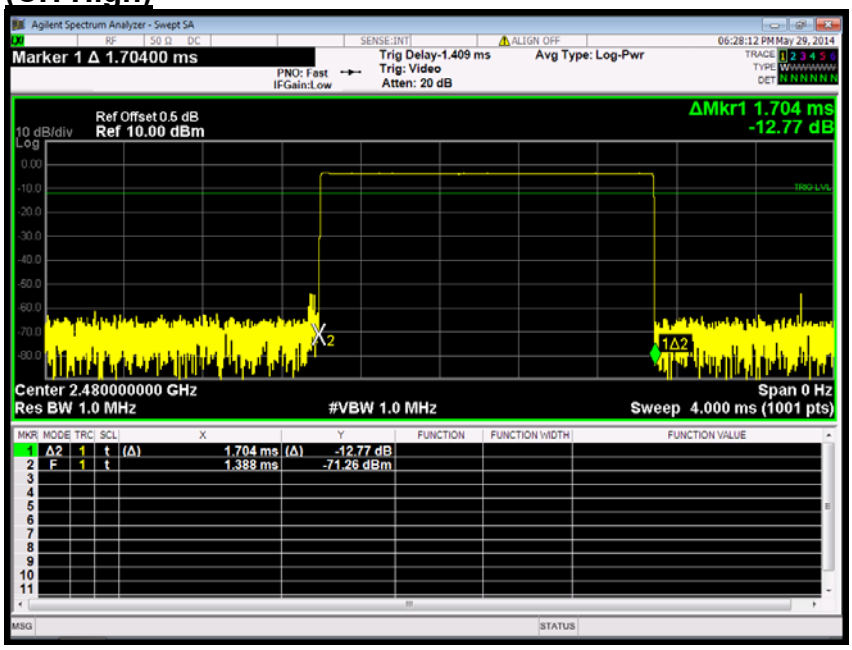
DH 1

(CH High)



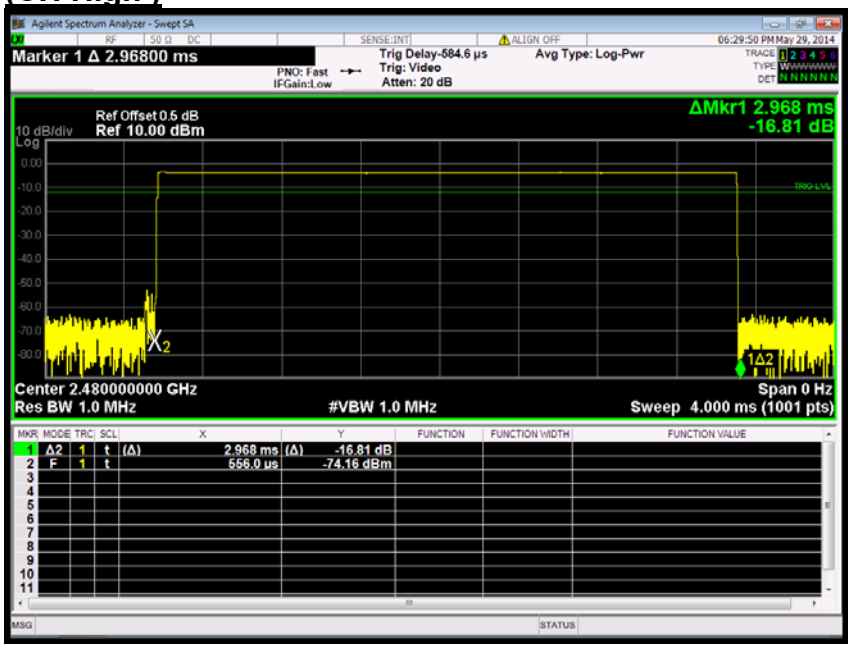
DH 3

(CH High)



DH 5

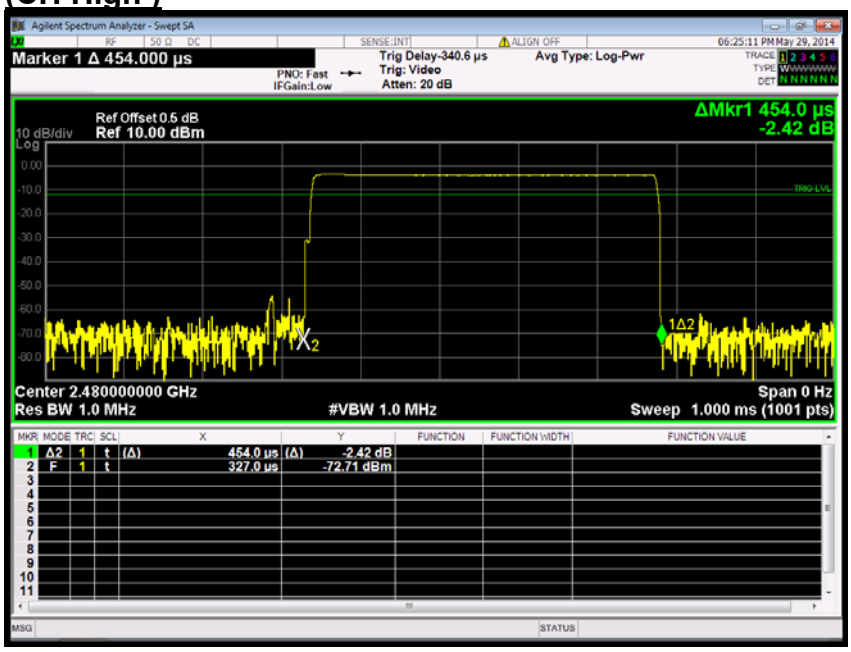
(CH High)



Test Plot
8DPSK

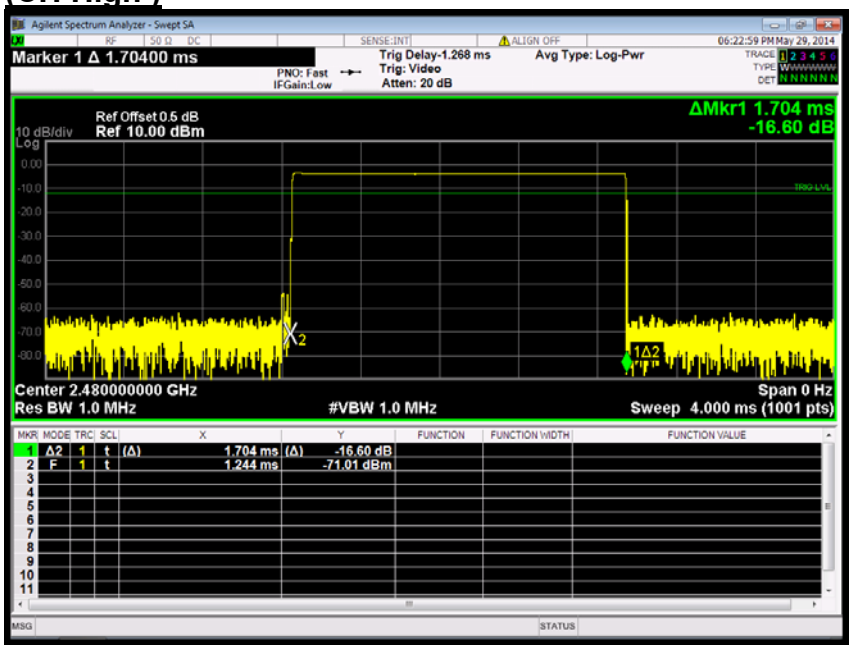
DH 1

(CH High)



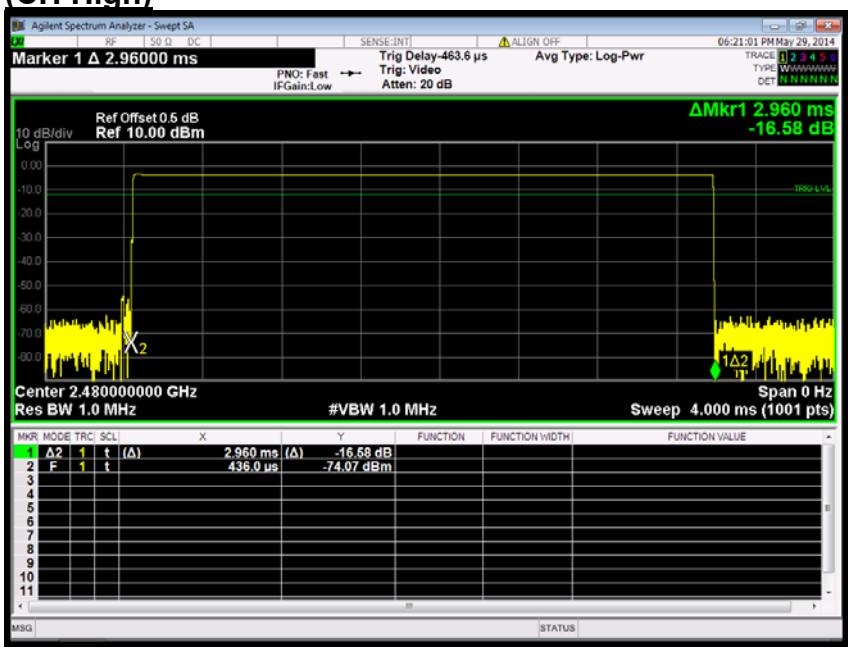
DH 3

(CH High)



DH 5

(CH High)



6.8 SPURIOUS EMISSIONS

6.8.1. CONDUCTED MEASUREMENT

LIMIT

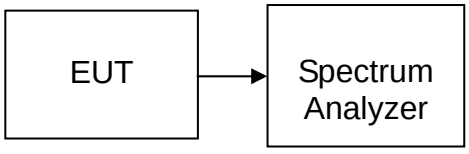
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY52221469	10/25/2013	10/24/2014

Remark: *Each piece of equipment is scheduled for calibration once a year.*

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 100 kHz.

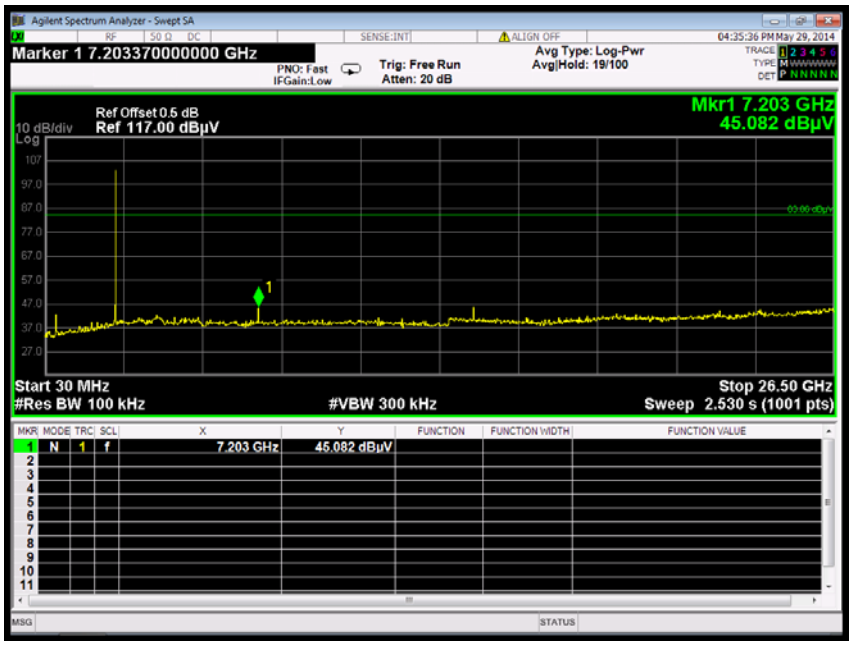
Measurements are made over the 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

TEST RESULTS

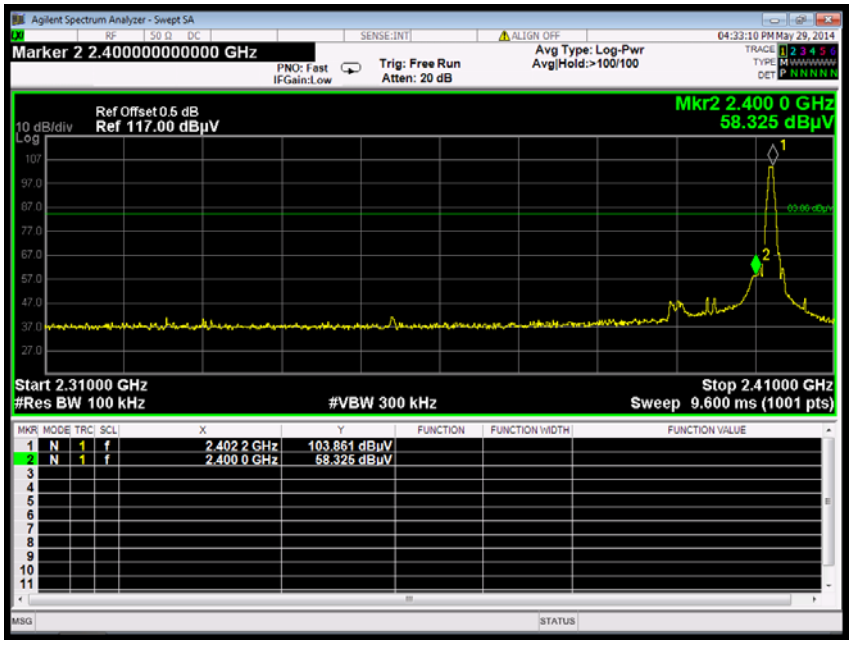
No non-compliance noted

Test Plot (GFSK)

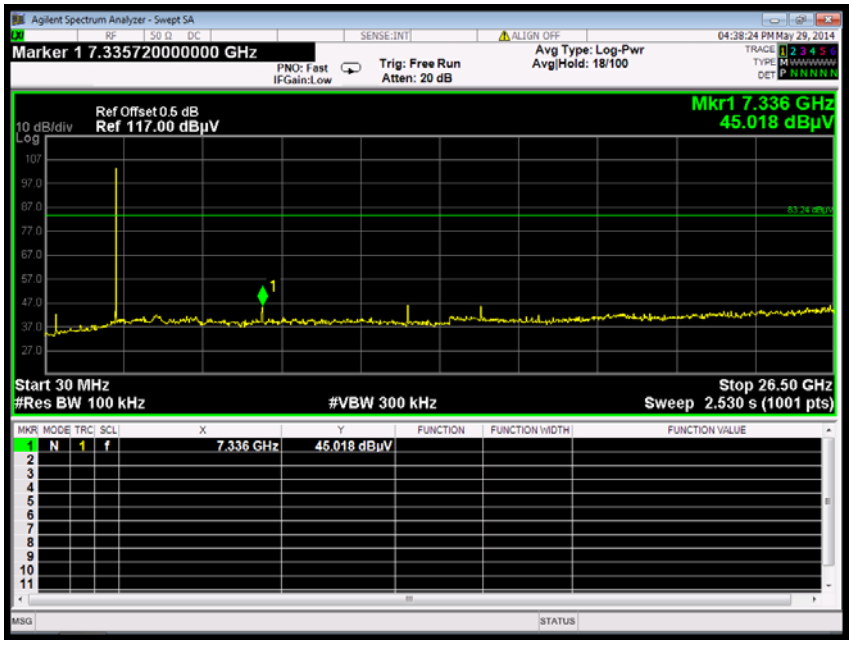
CH Low (30MHz ~26.5GHz)



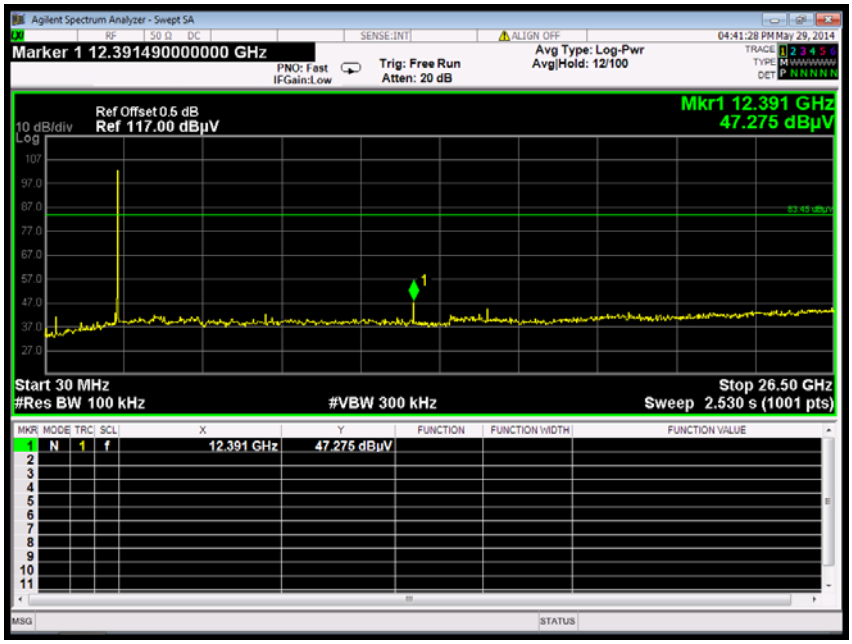
CH Low (2.31GHz ~2.41GHz)



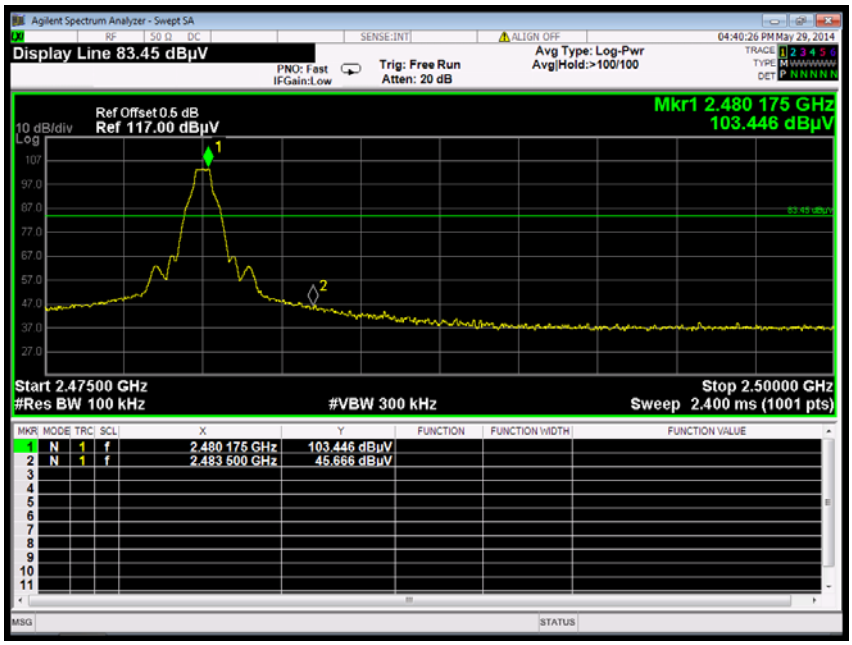
CH Mid (30MHz ~ 26.5GHz)



CH High (30MHz ~ 26.5GHz)

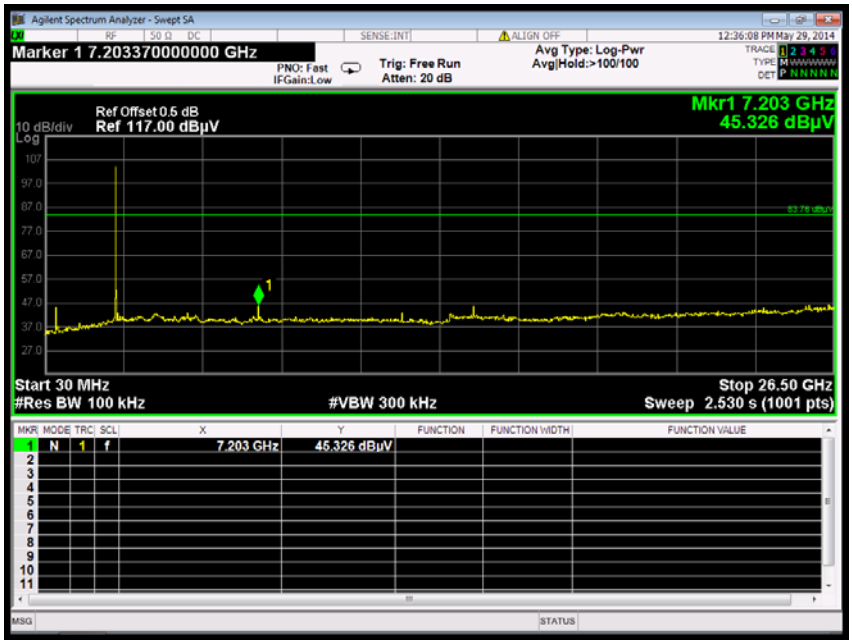


CH High (2.475GHz ~ 2.5GHz)

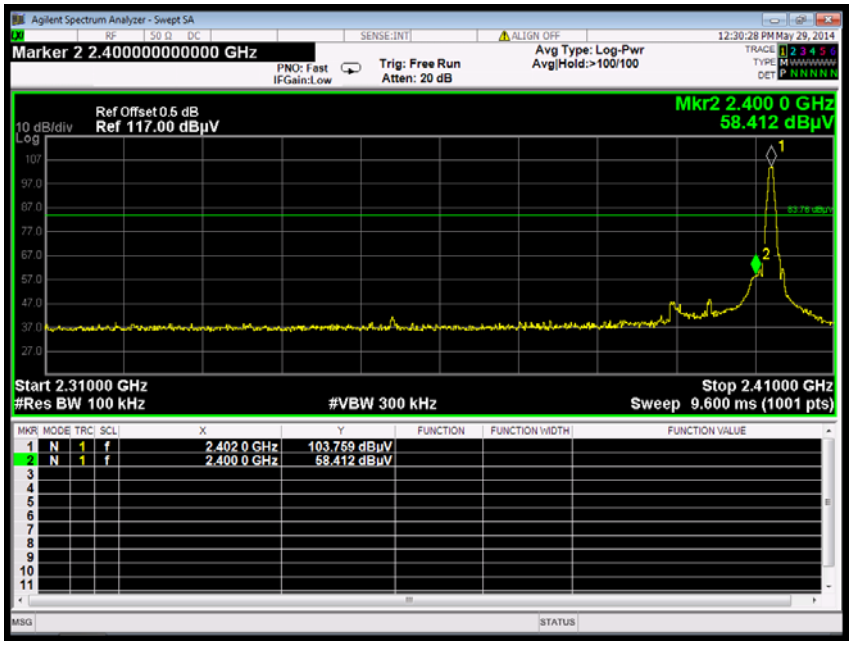


Test Plot (8DPSK)

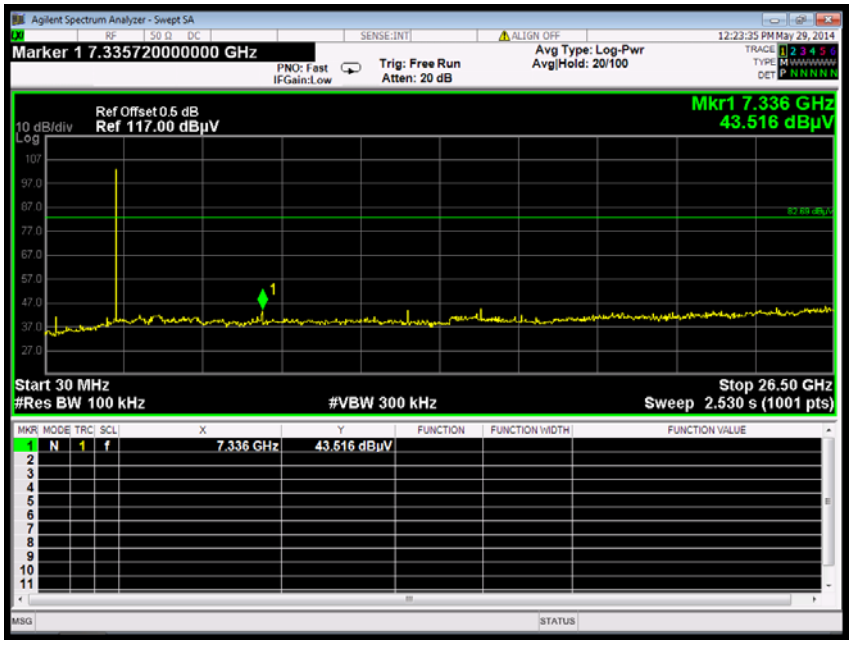
CH Low (30MHz ~26.5GHz)



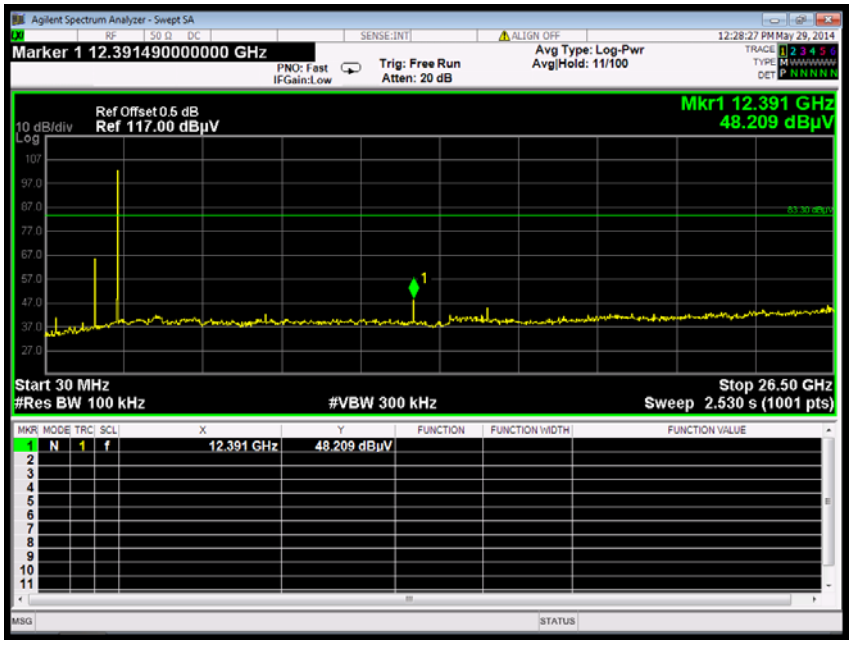
CH Low (2.31GHz ~2.41GHz)



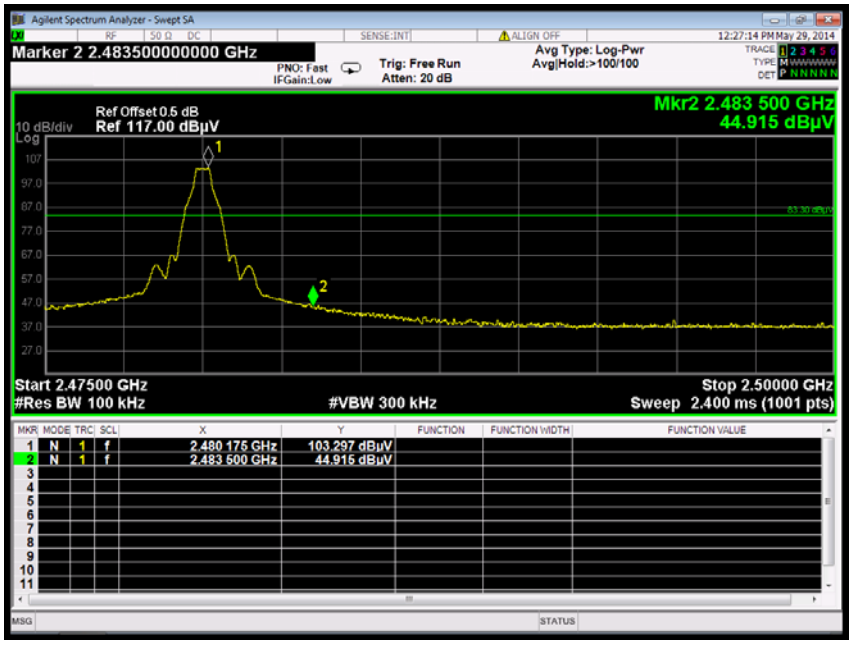
CH Mid (30MHz ~ 26.5GHz)



CH High (30MHz ~ 26.5GHz)



CH High (2.475GHz ~ 2.5GHz)



6.8.2. RADIATED EMISSIONS

LIMIT

1. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
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

Note: *Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

2. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength (μV/m at 3-meter)	Field Strength (dBμV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

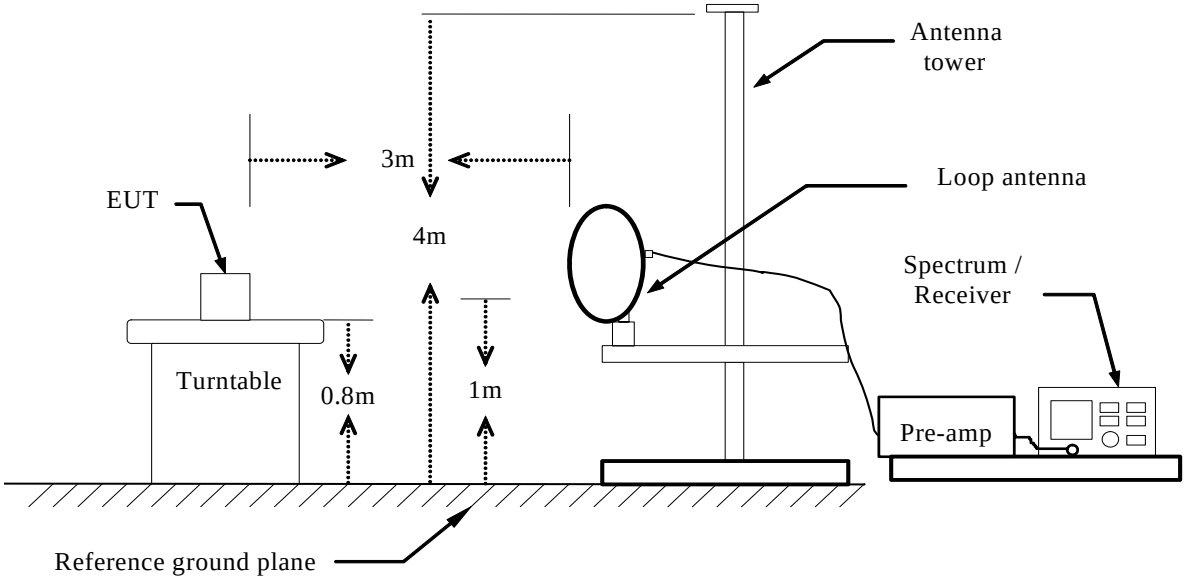
MEASUREMENT EQUIPMENT USED

Radiated Emission Test Site 966(2)					
Name of Equipment	**Manufacturer**	**Model Number**	**Serial Number**	**Last Calibration**	**Due Calibration**
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2014	03/01/2015
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	03/09/2014	03/08/2015
Amplifier	MITEQ	AM-1604-3000	1123808	03/18/2015	03/18/2015
High Noise Amplifier	Agilent	8449B	3008A01838	03/18/2015	03/18/2015
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	07/10/2013	07/09/2014
Bilog Antenna	SCHAFFNER	CBL6143	5082	03/01/2014	03/01/2015
Horn Antenna	SCHWARZBECK	BBHA9120	D286	03/01/2014	03/01/2015
Loop Antenna	A、R、A	PLA-1030/B	1029	09/27/2013	09/26/2014
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/28/2014	02/28/2015
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

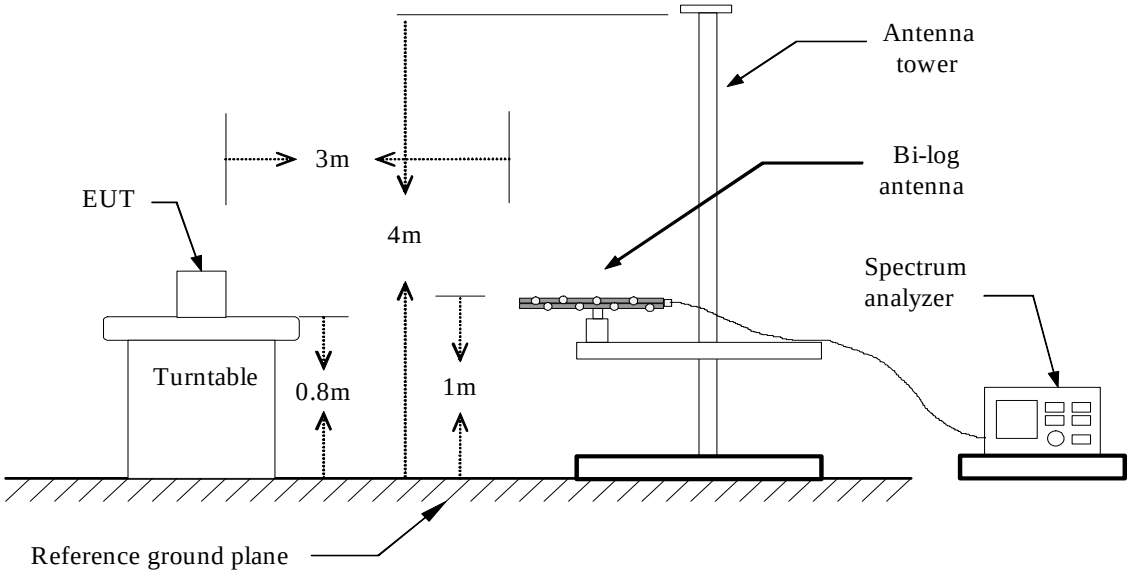
Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST CONFIGURATION

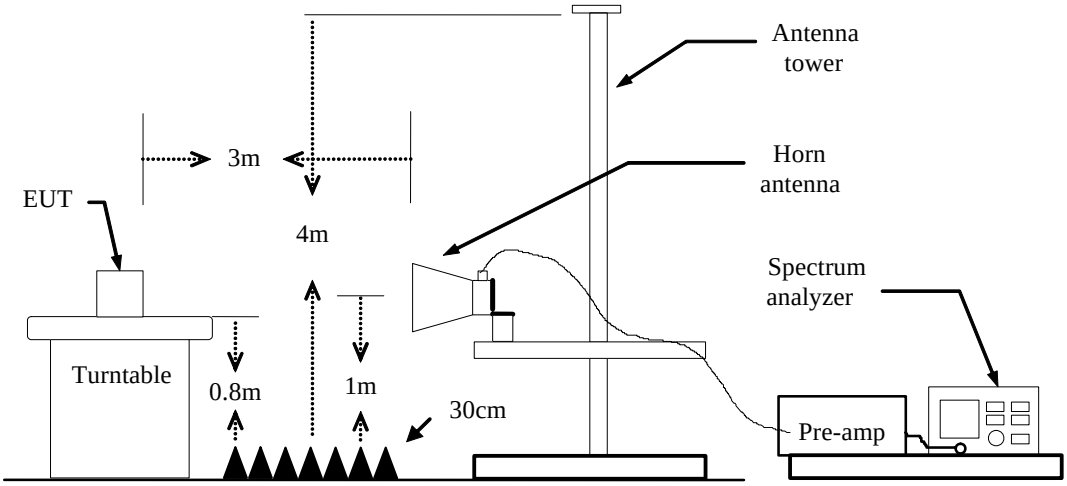
Below 30MHz



Below 1 GHz



Above 1 GHz



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is 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 the measurements for all frequencies are complete.

TEST RESULTS

Below 1 GHz

Operation Mode: TX **Test Date:** June 3, 2014

Temperature: 24°C **Tested by:** Jimmy Zheng

Humidity: 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
33.8800	49.41	-13.05	36.36	40.00	-3.64	V	QP
95.9600	63.75	-22.47	41.28	43.50	-2.22	V	QP
144.4600	55.15	-19.11	36.04	43.50	-7.46	V	QP
191.9900	54.68	-18.70	35.98	43.50	-7.52	V	QP
432.5500	48.00	-14.80	33.20	46.00	-12.80	V	QP
666.3200	48.71	-11.44	37.27	46.00	-8.73	V	QP
33.8800	48.68	-13.05	35.63	40.00	-4.37	H	QP
95.9600	60.21	-22.47	37.74	43.50	-5.76	H	QP
144.4600	58.53	-19.11	39.42	43.50	-4.08	H	QP
166.7700	57.21	-18.70	38.51	43.50	-4.99	H	QP
191.9900	59.72	-18.70	41.02	43.50	-2.48	H	QP
239.5200	55.70	-17.97	37.73	46.00	-8.27	H	QP

***Remark:** No emission found between lowest internal used/generated frequency to 30MHz.*

Notes:

1. *Measuring frequencies from 9kHz to the 1GHz.*
2. *Radiated emissions measured in frequency range from 30MHz to 1GHz were made with an instrument using Peak/Quasi-peak detector mode.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *The IF bandwidth of SPA between 30MHz to 1GHz was 120kHz.*
5. *Frequency (MHz). = Emission frequency in MHz*
   Reading (dBuV) = Receiver reading
   Correction Factor(dB/m) = Antenna factor + Cable loss – Amplifier gain
   Actual FS (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
   Limit (dBuV/m) = Limit stated in standard
   Margin(dB) = Measured (dBuV/m) – Limits (dBuV/m)
   Antenna Pole(V/H) = Current carrying line of reading

Above 1 GHz
GFSK

Operation Mode:	TX(CH Low)	**Test Date:**	June 3, 2014
Temperature:	24°C	**Tested by:**	Jimmy Zheng
Humidity:	52% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2054.000	48.41	-8.08	40.33	74.00	-33.67	V	peak
3329.000	44.97	-3.20	41.77	74.00	-32.23	V	peak
4655.000	43.81	1.07	44.88	74.00	-29.12	V	peak
4995.000	42.46	2.49	44.95	74.00	-29.05	V	peak
6865.000	41.48	7.12	48.60	74.00	-25.40	V	peak
7732.000	41.00	9.13	50.13	74.00	-23.87	V	peak
2003.000	52.68	-8.30	44.38	74.00	-29.62	H	peak
3346.000	44.06	-3.17	40.89	74.00	-33.11	H	peak
4383.000	42.29	0.09	42.38	74.00	-31.62	H	peak
5080.000	41.66	2.52	44.18	74.00	-29.82	H	peak
5828.000	42.60	3.10	45.70	74.00	-28.30	H	peak
7647.000	40.57	8.96	49.53	74.00	-24.47	H	peak

Notes:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
3. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.*
4. *Spectrum setting:*
   a. Peak Setting 1GHz - 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
   b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
5. *Frequency (MHz) = Emission frequency in MHz*
   Reading (dBµV/m) =Uncorrected Analyzer / Receiver Reading
   Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain
   Limit (dBµV/m) = Limit stated in standard
   Margin (dB) = Result (dBµV/m)- Limit (dBµV/m)
   Pk = Peak Reading
   AV. = Average Reading
   Remark = Mark Peak Reading or Average Reading

Operation Mode:	TX(CH Mid)	**Test Date:**	June 3, 2014
Temperature:	24°C	**Tested by:**	Jimmy Zheng
Humidity:	52% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1731.000	53.27	-9.20	44.07	74.00	-29.93	V	peak
2003.000	55.78	-8.30	47.48	74.00	-26.52	V	peak
3550.000	44.34	-2.71	41.63	74.00	-32.37	V	peak
4655.000	42.82	1.07	43.89	74.00	-30.11	V	peak
4995.000	41.79	2.49	44.28	74.00	-29.72	V	peak
6933.000	41.05	7.41	48.46	74.00	-25.54	V	peak
1731.000	52.55	-9.20	43.35	74.00	-30.65	H	peak
2003.000	50.46	-8.30	42.16	74.00	-31.84	H	peak
3550.000	44.76	-2.71	42.05	74.00	-31.95	H	peak
5029.000	41.66	2.51	44.17	74.00	-29.83	H	peak
6899.000	41.48	7.26	48.74	74.00	-25.26	H	peak
7749.000	40.95	9.16	50.11	74.00	-23.89	H	peak

Notes:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
3. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.*
4. *Spectrum setting:*
   a. *Peak Setting 1GHz - 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.*
   b. *AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.*
5. *Frequency (MHz) = Emission frequency in MHz*
   Reading (dBµV/m) =Uncorrected Analyzer / Receiver Reading
   Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain
   Limit (dBµV/m) = Limit stated in standard
   Margin (dB) = Result (dBµV/m)- Limit (dBµV/m)
   Pk = Peak Reading
   AV. = Average Reading
   Remark = Mark Peak Reading or Average *Reading*

Operation Mode: TX(CH High) **Test Date:** June 3, 2014

Temperature: 24 °C **Tested by:** Jimmy Zheng

Humidity: 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1731.000	53.33	-9.20	44.13	74.00	-29.87	V	peak
2003.000	53.66	-8.30	45.36	74.00	-28.64	V	peak
3329.000	44.70	-3.20	41.50	74.00	-32.50	V	peak
4213.000	43.33	-0.41	42.92	74.00	-31.08	V	peak
4995.000	41.53	2.49	44.02	74.00	-29.98	V	peak
7001.000	41.77	7.70	49.47	74.00	-24.53	V	peak
1731.000	55.44	-9.20	46.24	74.00	-27.76	H	peak
2003.000	51.94	-8.30	43.64	74.00	-30.36	H	peak
4961.000	41.92	2.35	44.27	74.00	-29.73	H	peak
6984.000	41.32	7.63	48.95	74.00	-25.05	H	peak
7698.000	40.64	9.06	49.70	74.00	-24.30	H	peak
8327.000	40.74	9.47	50.21	74.00	-23.79	H	peak

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.

4. Spectrum setting:

a. Peak Setting 1GHz - 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.

b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

5. Frequency (MHz) = Emission frequency in MHz

Reading (dBµV/m) =Uncorrected Analyzer / Receiver Reading

Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

Limit (dBµV/m) = Limit stated in standard

Margin (dB) = Result (dBµV/m)- Limit (dBµV/m)

Pk = Peak Reading

AV. = Average Reading

Remark = Mark Peak Reading or Average *Reading*

8DPSK

Operation Mode:	TX(CH Low)	**Test Date:**	June 3, 2014
Temperature:	24°C	**Tested by:**	Jimmy Zheng
Humidity:	52% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1731.000	49.83	-9.20	40.63	74.00	-33.37	V	peak
2003.000	53.96	-8.30	45.66	74.00	-28.34	V	peak
3550.000	44.52	-2.71	41.81	74.00	-32.19	V	peak
4655.000	42.71	1.07	43.78	74.00	-30.22	V	peak
7477.000	40.62	8.63	49.25	74.00	-24.75	V	peak
8480.000	40.65	9.39	50.04	74.00	-23.96	V	peak
2003.000	52.39	-8.30	44.09	74.00	-29.91	H	peak
3941.000	43.19	-1.26	41.93	74.00	-32.07	H	peak
4995.000	41.42	2.49	43.91	74.00	-30.09	H	peak
6933.000	41.28	7.41	48.69	74.00	-25.31	H	peak
7749.000	41.23	9.16	50.39	74.00	-23.61	H	peak
8429.000	40.50	9.41	49.91	74.00	-24.09	H	peak

Notes:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
3. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.*
4. *Spectrum setting:*
   a. *Peak Setting 1GHz - 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.*
   b. *AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.*
5. *Frequency (MHz) = Emission frequency in MHz*
   Reading (dBµV/m) =Uncorrected Analyzer / Receiver Reading
   Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain
   Limit (dBµV/m) = Limit stated in standard
   Margin (dB) = Result (dBµV/m)- Limit (dBµV/m)
   Pk = Peak Reading
   AV. = Average Reading
   Remark = Mark Peak Reading or Average *Reading*

Operation Mode: TX(CH Mid) **Test Date:** June 3, 2014

Temperature: 24°C **Tested by:** Jimmy Zheng

Humidity: 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBμV)	Correction Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1714.000	54.37	-9.35	45.02	74.00	-28.98	V	peak
3550.000	44.52	-2.71	41.81	74.00	-32.19	V	peak
4655.000	43.18	1.07	44.25	74.00	-29.75	V	peak
6933.000	40.33	7.41	47.74	74.00	-26.26	V	peak
7681.000	40.21	9.03	49.24	74.00	-24.76	V	peak
8565.000	41.30	9.34	50.64	74.00	-23.36	V	peak
1986.000	52.58	-8.33	44.25	74.00	-29.75	H	peak
4213.000	43.38	-0.41	42.97	74.00	-31.03	H	peak
4723.000	42.70	1.36	44.06	74.00	-29.94	H	peak
7222.000	40.79	8.13	48.92	74.00	-25.08	H	peak
7698.000	40.87	9.06	49.93	74.00	-24.07	H	peak
9228.000	40.71	9.76	50.47	74.00	-23.53	H	peak

Notes:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
3. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.*
4. *Spectrum setting:*
   a. *Peak Setting 1GHz - 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.*
   b. *AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.*
5. *Frequency (MHz) = Emission frequency in MHz*
   Reading (dBμV/m) =Uncorrected Analyzer / Receiver Reading
   Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain
   Limit (dBμV/m) = Limit stated in standard
   Margin (dB) = Result (dBμV/m)- Limit (dBμV/m)
   Pk = Peak Reading
   AV. = Average Reading
   Remark = Mark Peak Reading or Average *Reading*

Operation Mode:	TX(CH High)	**Test Date:**	June 3, 2014
Temperature:	24 °C	**Tested by:**	Jimmy Zheng
Humidity:	52% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2003.000	47.79	-8.30	39.49	74.00	-34.51	V	peak
3329.000	45.39	-3.20	42.19	74.00	-31.81	V	peak
3550.000	44.74	-2.71	42.03	74.00	-31.97	V	peak
4961.000	41.92	2.35	44.27	74.00	-29.73	V	peak
6899.000	41.22	7.26	48.48	74.00	-25.52	V	peak
7749.000	40.54	9.16	49.70	74.00	-24.30	V	peak
2003.000	50.29	-8.30	41.99	74.00	-32.01	H	peak
2955.000	45.33	-4.02	41.31	74.00	-32.69	H	peak
4961.000	42.18	2.35	44.53	74.00	-29.47	H	peak
7222.000	41.10	8.13	49.23	74.00	-24.77	H	peak
7715.000	41.38	9.09	50.47	74.00	-23.53	H	peak
8582.000	41.88	9.33	51.21	74.00	-22.79	H	peak

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.

4. Spectrum setting:

a. Peak Setting 1GHz - 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.

b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

5. Frequency (MHz) = Emission frequency in MHz

Reading (dBµV/m) =Uncorrected Analyzer / Receiver Reading

Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

Limit (dBµV/m) = Limit stated in standard

Margin (dB) = Result (dBµV/m)- Limit (dBµV/m)

Pk = Peak Reading

AV. = Average Reading

Remark = Mark Peak Reading or Average *Reading*

6.9 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which 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 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBµV)	
	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

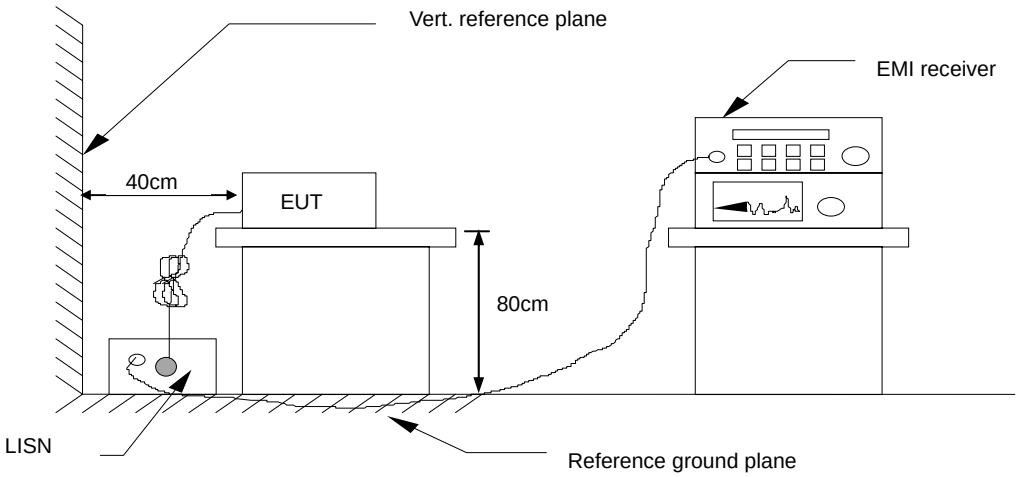
Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

MEASUREMENT EQUIPMENT USED

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	03/09/2014	03/08/2015
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	04/20/2014	04/19/2015
LISN	EMCO	3825/2	8901-1459	03/09/2014	03/08/2015
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	03/04/2014	03/03/2015
Test S/W	FARAD	EZ-EMC/ CCS-3A1-CE			

Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST CONFIGURATION



See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

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

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Test Data

Operation Mode: Mode 1 **Test Date:** June 3, 2014

Temperature: 24°C **Humidity:** 52% RH

Tested by: Jimmy Zheng

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)	Line (L1/L2)
0.1500	44.80	36.31	9.58	54.38	45.89	65.99	56.00	-11.61	-10.11	L1
0.2180	26.51	18.95	9.69	36.20	28.64	62.89	52.89	-26.69	-24.25	L1
0.5260	23.06	2.93	9.69	32.75	12.62	56.00	46.00	-23.25	-33.38	L1
2.0220	11.20	6.86	9.73	20.93	16.59	56.00	46.00	-35.07	-29.41	L1
6.5740	13.59	3.85	9.76	23.35	13.61	60.00	50.00	-36.65	-36.39	L1
12.5659	26.64	7.73	9.89	36.53	17.62	60.00	50.00	-23.47	-32.38	L1
0.1500	51.11	38.04	9.78	60.89	47.82	65.99	56.00	-5.10	-8.18	L2
0.2180	27.41	19.35	9.78	37.19	29.13	62.89	52.89	-25.70	-23.76	L2
0.4940	23.43	1.79	9.68	33.11	11.47	56.10	46.10	-22.99	-34.63	L2
1.7340	12.55	6.13	9.75	22.30	15.88	56.00	46.00	-33.70	-30.12	L2
12.8460	28.57	10.43	9.78	38.35	20.21	60.00	50.00	-21.65	-29.79	L2
19.4340	28.10	15.95	9.73	37.83	25.68	60.00	50.00	-22.17	-24.32	L2

Note:

1. *Measuring frequencies from 0.15 MHz to 30MHz.*
2. *The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Peak detector, Quasi-peak detector and average detector.*
3. *"---" denotes the emission level was or more than 2dB below the Average limit.*
4. *The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;*
5. *L1= Line One (Live Line)/ L2= Line Two (Neutral Line)*