

**FCC - TEST REPORT**

Report Number : **68.950.14.205.02** Date of Issue: October 31, 2014

Model : 190653

Product Type : iSport Wireless Superslim

Applicant : Monster, LLC

Address : 7251 West Lake Mead Blvd, Suite 342, Las Vegas, Nevada,  
United States

Production Facility : Charter Media (Dongguan) Co., Ltd.

Address : Dabandi Industrial Zone, Daning District, Humen Town,  
Dongguan City, Guangdong Province 523930, P. R. China

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : 39

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## 2 Details about the Test Laboratory

### Details about the Test Laboratory

#### Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland Business Park,  
Nantou Checkpoint Road 2, Nanshan District,  
Shenzhen City, 518052,  
P. R. China

Telephone: 86 755 8828 6998  
Fax: 86 755 8828 5299

#### Test Site 2

Company name: Audix Technology (shenzhen) Co.,Ltd  
No. 6, Ke Feng Rd, 52 Block Shenzhen Science and Industry Park,  
Nantou, Shenzhen,  
Guangdong,  
China

Telephone: 86 755 2663 9496  
Fax: 86 755 2663 2877

### 3 Description of the Equipment Under Test

Product:	iSport Wireless Superslim
Model no.:	190653
FCC ID:	RJE190653
Brand Name:	Monster
Options and accessories:	USB Cable
Rating:	DC3.7V supplied by Li-ion rechargeable battery 5VDC (Charged by PC USB Port)
RF Transmission Frequency:	2402-2480MHz
No. of Operated Channel:	79
Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Duty Cycle:	33.41%
Antenna Type:	Internal Antenna
Antenna Gain:	0dBi
Description of the EUT:	The Equipment Under Test (EUT) is a iSport Wireless Superslim with Bluetooth3.0 function operating at 2.4GHz

## 4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2014 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to Public Notice DA 00-705 -Frequency Hopper Spread Spectrum Test Procedure released by FCC on March 30, 2000 and C63.10 (2009).

## 5 Summary of Test Results

Technical Requirements				
FCC Part 15 Subpart C				
Test Condition		Pages	Test Site	Test Result
§15.247(b)(1)	Conducted peak output power	10	Site 2	Pass
§15.247(a)(2)	6dB bandwidth	---	---	N/A
§15.247(a)(1)	20dB bandwidth and 99% Occupied Bandwidth	12	Site 2	Pass
§15.247(a)(1)	Carrier frequency separation	19	Site 2	Pass
§15.247(a)(1)(iii)	Number of hopping frequencies	22	Site 2	Pass
§15.247(a)(1)(iii)	Dwell Time	24	Site 2	Pass
§15.247(e)	Power spectral density	---	---	N/A
§15.247(d)	Spurious RF conducted emissions	27	Site 2	Pass
§15.247(d)	Band edge	31	Site 2	Pass
§15.247(d) & §15.209 &	Spurious radiated emissions for transmitter	36	Site 2	Pass
§15.203	Antenna requirement	See note 2		Pass

Note 1: N/A=Not Applicable.

Note 2: The EUT uses a permanently Internal antenna, which gain is 0dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.

## 6 General Remarks

### Remarks

This report is based on 689501420501, for changing the antenna placement, shape and length, but with the same type and maximum gain, so only for the transmitter spurious emission has been retested.

This submittal(s) (test report) is intended for FCC ID: RJE190653 complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

### SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: September 15, 2014

Testing Start Date: September 16, 2014

Testing End Date: October 31, 2014

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

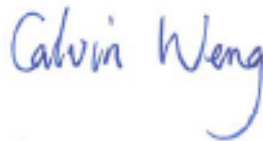
Reviewed by:

Prepared by:

Tested by:



Phoebe Bu  
EMC Project Manager



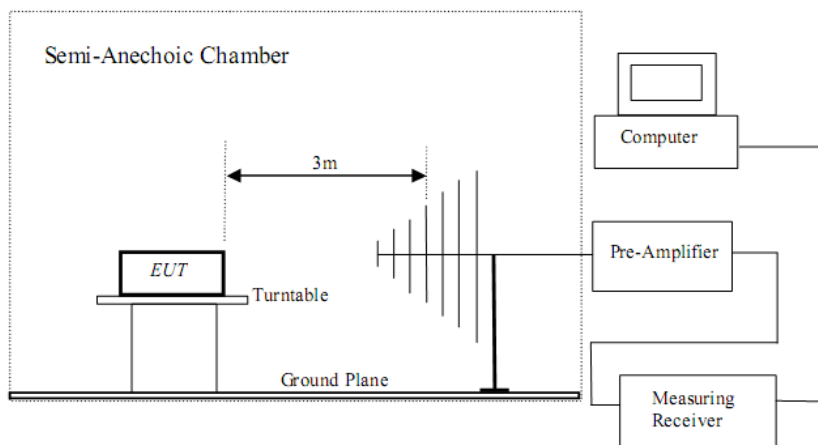
Calvin Weng  
EMC Project Engineer



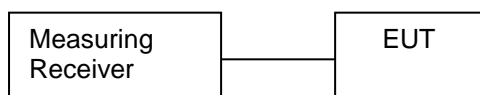
Leo Li  
EMC Test Engineer

## 7 Test Setups

### 7.1 Radiated test setups



### 7.2 Conducted RF test setups





## 8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
PC	DCTA	DELL	---
Monitor	L2364	LENOVO	---
Keyboard	SK-8115	DELL	---
Mouse	M056UO	DELL	---

Test software: CSR Bluetest3.exe, which used to control the EUT in continues transmitting mode

The system was configured to hopping mode and non-hopping mode.

Hopping mode: typical working mode (normal hopping status)

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power

## 9 Technical Requirement

### 9.1 Conducted peak output power

#### Test Method

1. Use the following spectrum analyzer settings:  
Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel  
RBW > the 20 dB bandwidth of the emission being measured, VBW ≥ RBW,  
Sweep = auto, Detector function = peak, Trace = max hold
2. Add a correction factor to the display.
3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power

#### Limits

According to §15.247 (b) (1), conducted peak output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30

## Conducted peak output power

### Bluetooth Mode GFSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	6.63	Pass
Middle channel 2441MHz	8.54	Pass
High channel 2480MHz	8.48	Pass

### Bluetooth Mode $\pi/4$ -DQPSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	4.45	Pass
Middle channel 2441MHz	7.12	Pass
High channel 2480MHz	6.83	Pass

### Bluetooth Mode 8DPSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	5.10	Pass
Middle channel 2441MHz	7.44	Pass
High channel 2480MHz	7.20	Pass

## 9.2 20 dB bandwidth and 99% Occupied Bandwidth

### Test Method

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

### Limit

Limit [kHz]

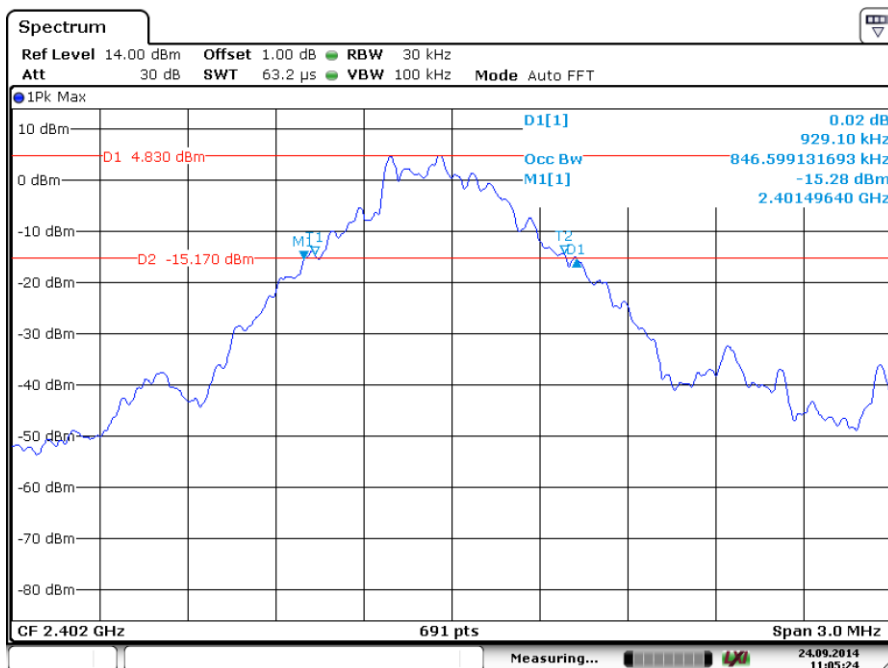
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N/A

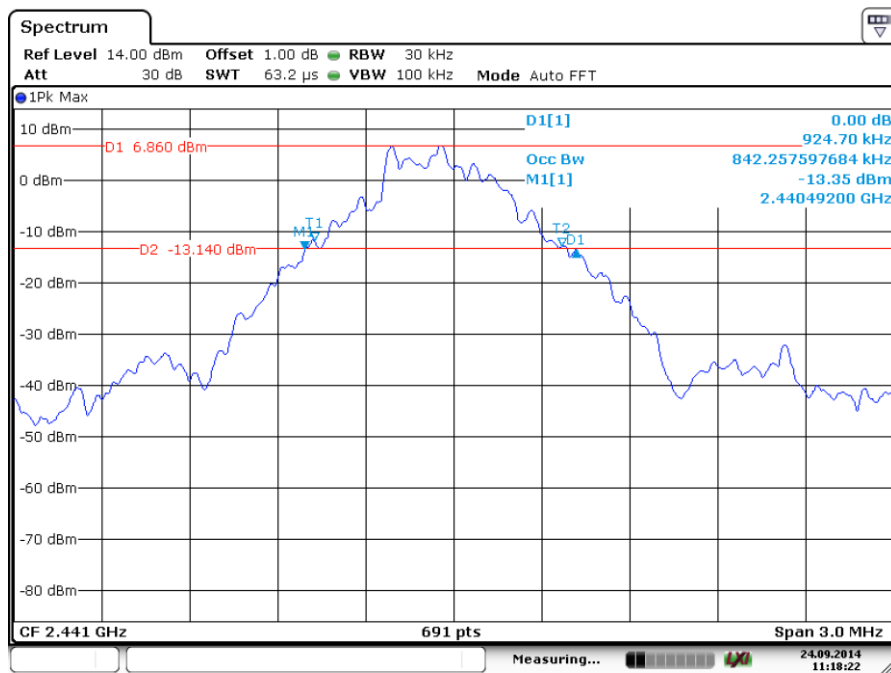
## 20 dB bandwidth and 99% Occupied Bandwidth

### Bluetooth Mode GFSK Modulation test result

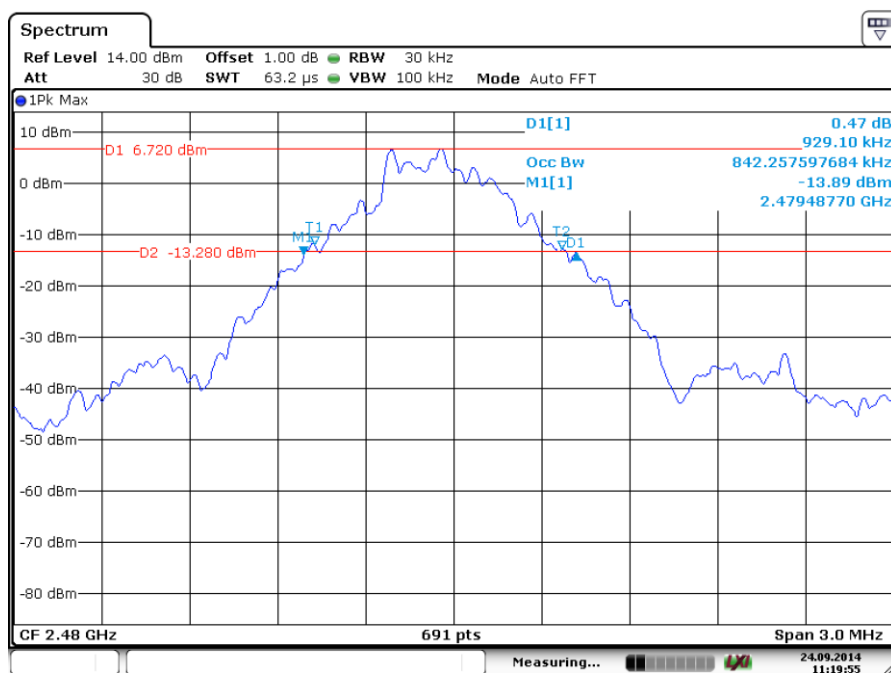
Frequency MHz	20 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz	Result
2402	929.1	846.6	--	Pass
2441	924.7	842.3	--	Pass
2480	929.1	842.3	--	Pass



## 20 dB bandwidth and 99% Occupied Bandwidth



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Date: 24.SEP.2014 11:19:55

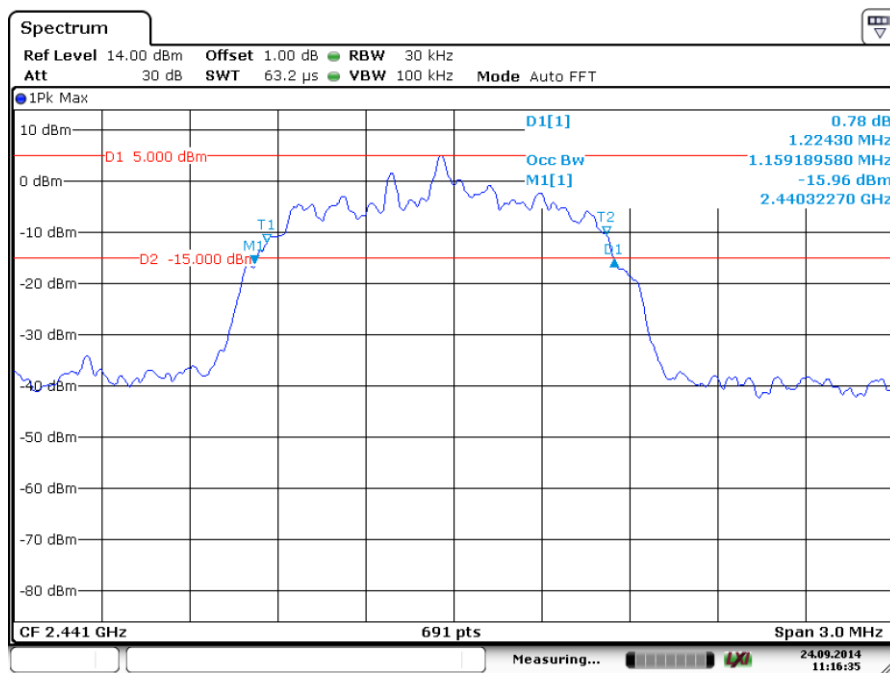
## 20 dB bandwidth and 99% Occupied Bandwidth

Bluetooth Mode  $\pi/4$ -DQPSK Modulation test result

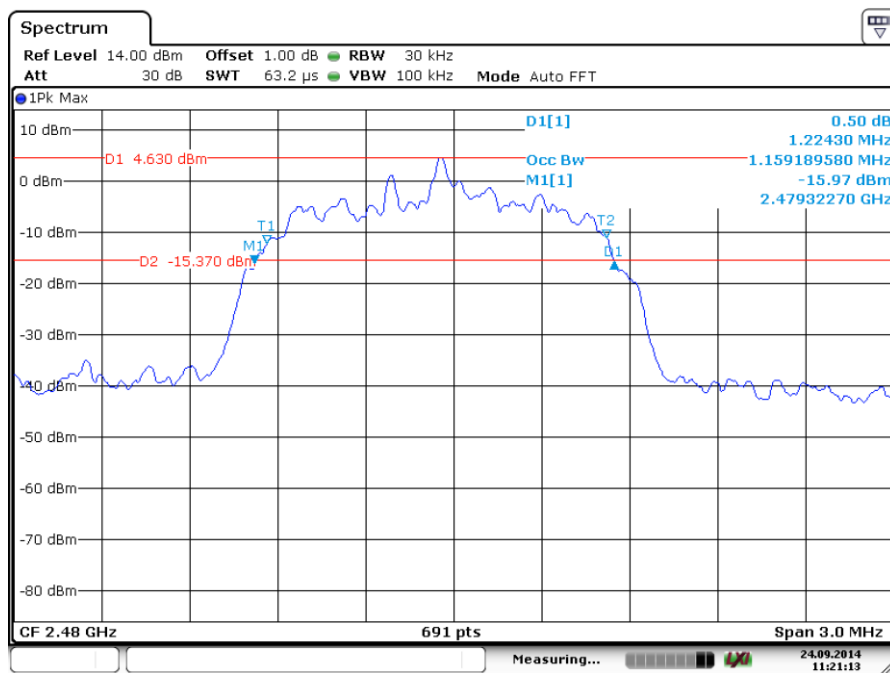
Frequency MHz	20 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz	Result
2402	1224.3	1159.2	--	Pass
2441	1224.3	1159.2	--	Pass
2480	1224.3	1159.2	--	Pass



Date: 24.SEP.2014 11:10:06



Date: 24.SEP.2014 11:16:35



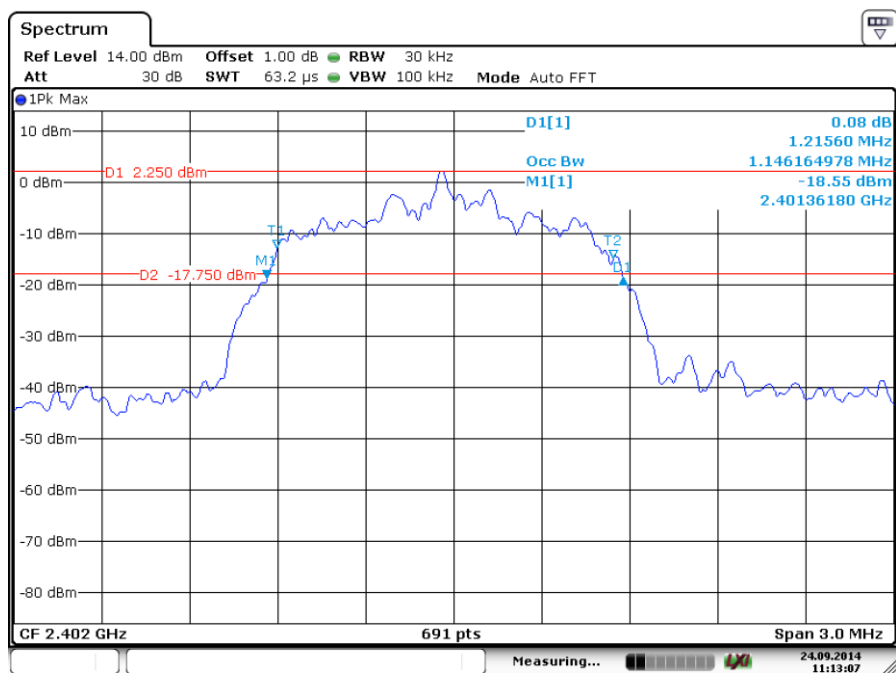
Date: 24.SEP.2014 11:21:13



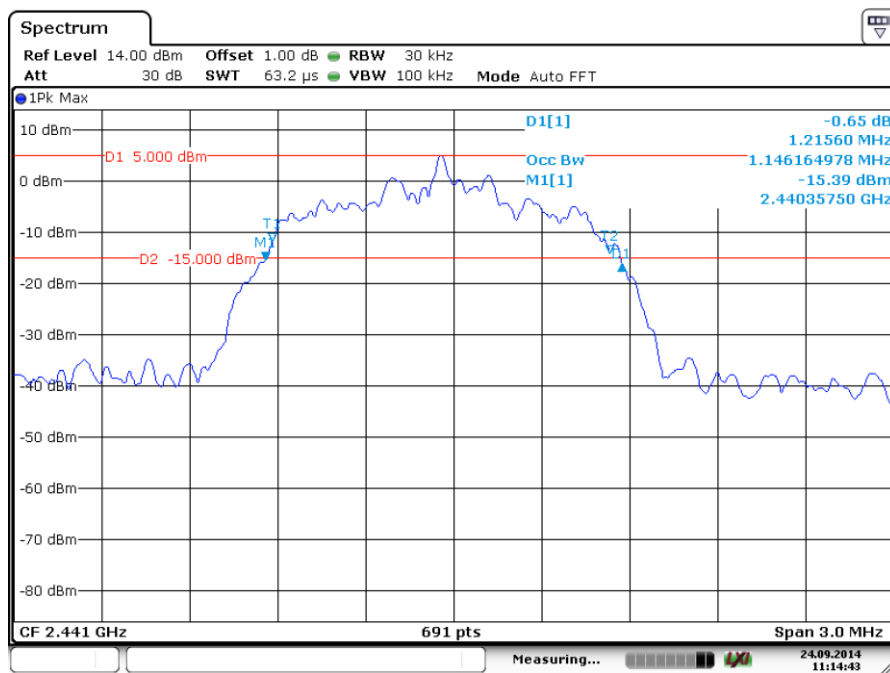
## 20 dB bandwidth and 99% Occupied Bandwidth

### Bluetooth Mode 8DPSK Modulation test result

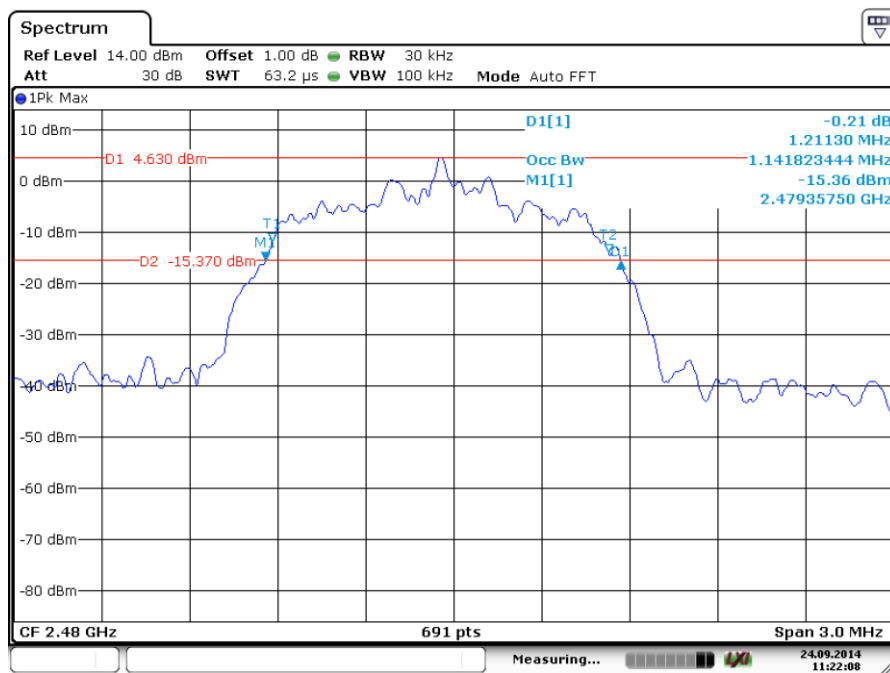
Frequency MHz	20 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz	Result
2402	1215.6	1146.2	--	Pass
2441	1215.6	1146.2	--	Pass
2480	1211.3	1141.8	--	Pass



Date: 24.SEP.2014 11:13:07



Date: 24.SEP.2014 11:14:44



Date: 24.SEP.2014 11:22:09

### 9.3 Carrier Frequency Separation

#### Test Method

1. Use the following spectrum analyzer settings:  
Span = wide enough to capture the peaks of two adjacent channels,  $RBW \geq 1\%$  of the span,  $VBW \geq RBW$ , Sweep = auto, Detector function = peak
2. By using the Max-Hold function record the separation of two adjacent channels.
3. Measure the frequency difference of these two adjacent channels by spectrum analyzer marker function.
4. Repeat above procedures until all frequencies measured were complete.

#### Limit

Limit kHz
$\geq 25\text{kHz}$ or $2/3$ of the 20 dB bandwidth which is greater

#### GFSK Modulation Limit

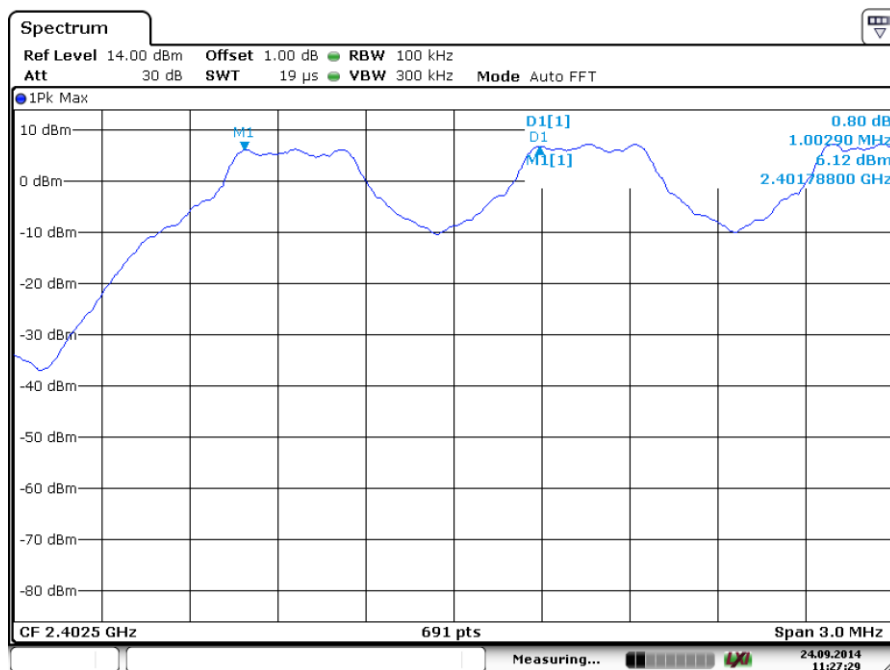
Frequency MHz	2/3 of 20 dB Bandwidth kHz
2402	619.3
2441	616.5
2480	619.3

## Carrier Frequency Separation

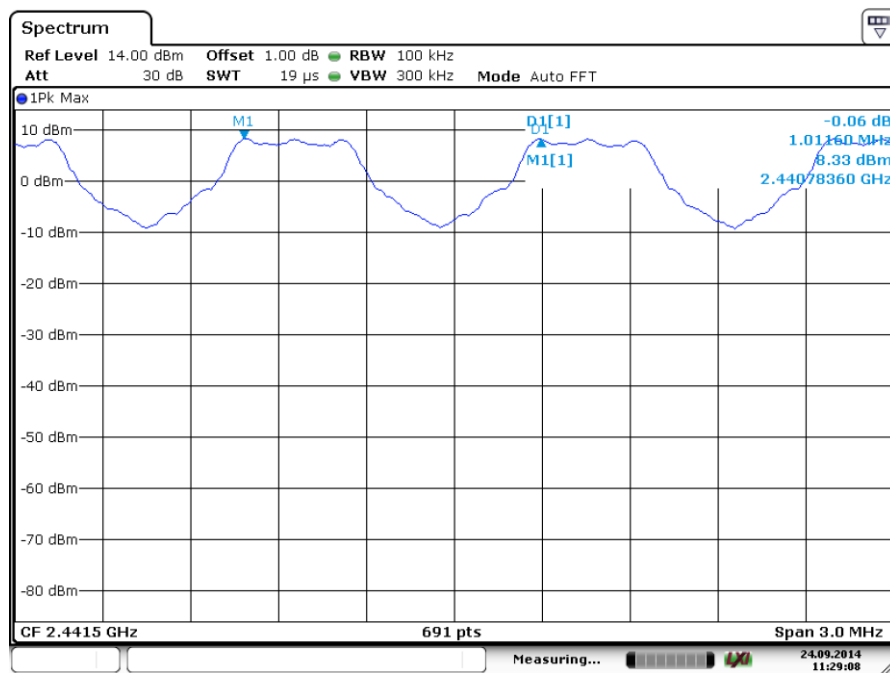
Test result: The measurement was performed with the typical configuration (normal hopping status), here GFSK modulation mode was used to show compliance.

### GFSK Modulation test result

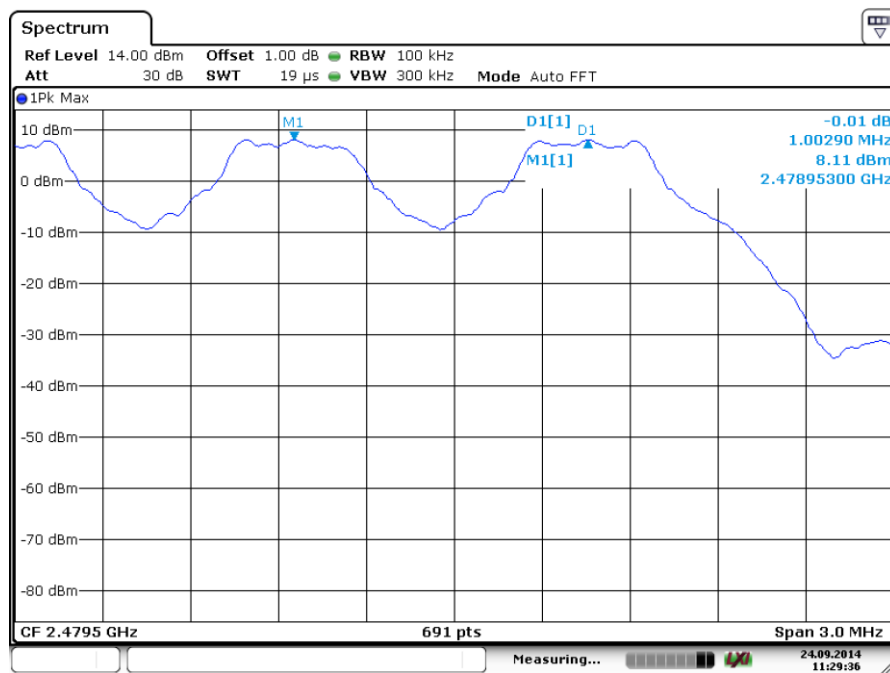
Frequency MHz	Carrier Frequency Separation kHz	Result
2402	1003	Pass
2441	1012	Pass
2480	1003	Pass



Date: 24.SEP.2014 11:27:28



Date: 24.SEP.2014 11:29:08



Date: 24.SEP.2014 11:29:36

## 9.4 Number of hopping frequencies

### Test Method

1. Use the following spectrum analyzer settings:  
Span = wide enough to capture the peaks of two adjacent channels,  $RBW \geq 1\%$  of the span,  $VBW \geq RBW$ , Sweep = auto, Detector function = peak
2. Set the spectrum analyzer on Max-Hold Mode, and then keep the EUT in hopping mode.
3. Record all the signals from each channel until each one has been recorded.
4. Repeat above procedures until all frequencies measured were complete.

### Limit

Limit  
number

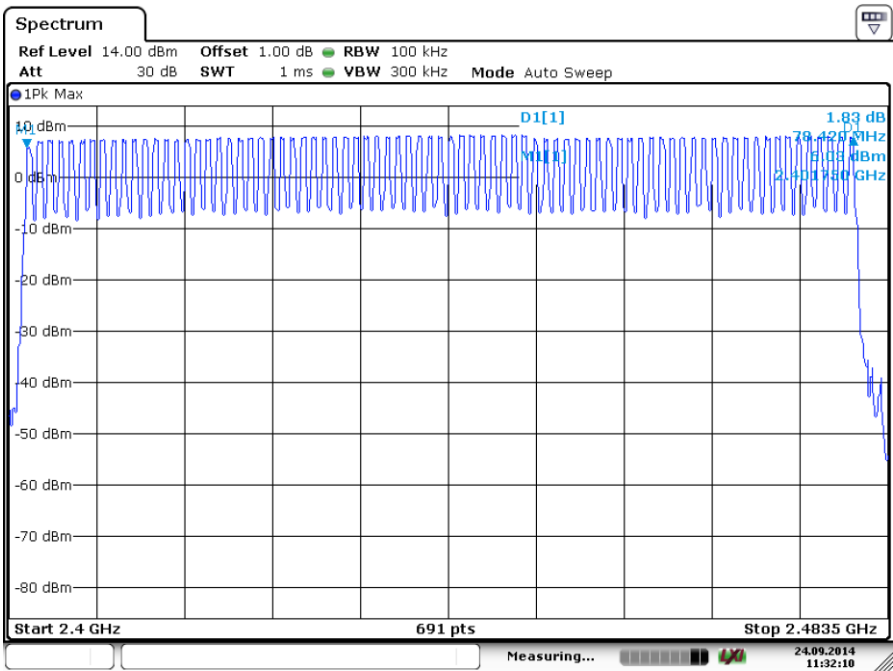
---

$\geq 15$

Number of hopping frequencies

Test result: The measurement was performed with the typical configuration (normal hopping status), and the total hopping channels is constant for the all modulation mode according with the Bluetooth Core Specification. Here GFSK modulation mode was used to show compliance.

Number of hopping frequencies	Result
79	Pass



Date: 24.SEP.2014 11:32:09

## 9.5 Dwell Time

### Test Method

1. Connect EUT antenna terminal to the spectrum analyzer with a low loss cable.  
Equipment mode: Spectrum analyzer
2. RBW: 1MHz; VBW: 1MHz; SPAN: Zero Span
3. Adjust the center frequency of spectrum analyzer on any frequency be measured.
4. Measure the Dwell Time by spectrum analyzer Marker function.
5. Repeat above procedures until all frequencies measured were complete.

### Limit

According to §15.247(a)(1)(iii) .The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.



## Dwell Time

### Dwell time

The maximum dwell time shall be 0,4 s.

According to the Bluetooth Core Specification, the worse result (DH5 mode) was reported to show compliance.

The Dwell Time = Burst Width \* Total Hops. The detailed calculations are showed as follows:

The duration for dwell time calculation: 0.4 [s] \* hopping number = 0.4 [s] \* 79 [ch] = 31.6 [s\*ch];

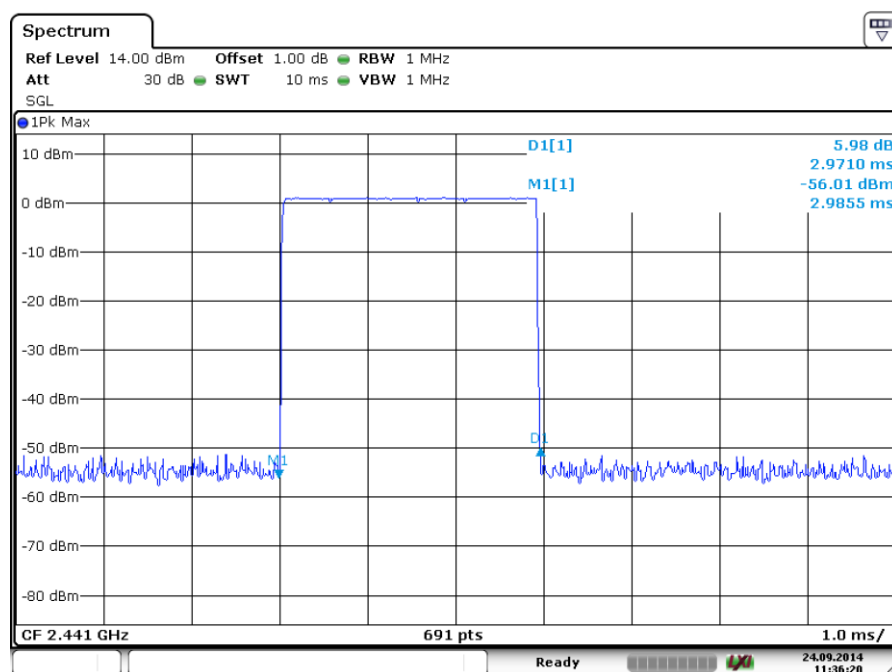
The burst width, which is directly measured, refers to the duration on one channel hop.

The maximum number of hopping channels in 31.6s for DH5=1600 / 6 / 79 \*31.6=106.67

### Test Result

Modulation	Mode	Reading (μs)	Total Hops	Test Result (ms)	Limit (ms)	Result
GFSK	DH5	2971	106.67	316.92	< 400	Pass
π/4-DQPSK	2DH5	2971	106.67	316.92	< 400	Pass
8-DPSK	3DH5	2971	106.67	316.92	< 400	Pass

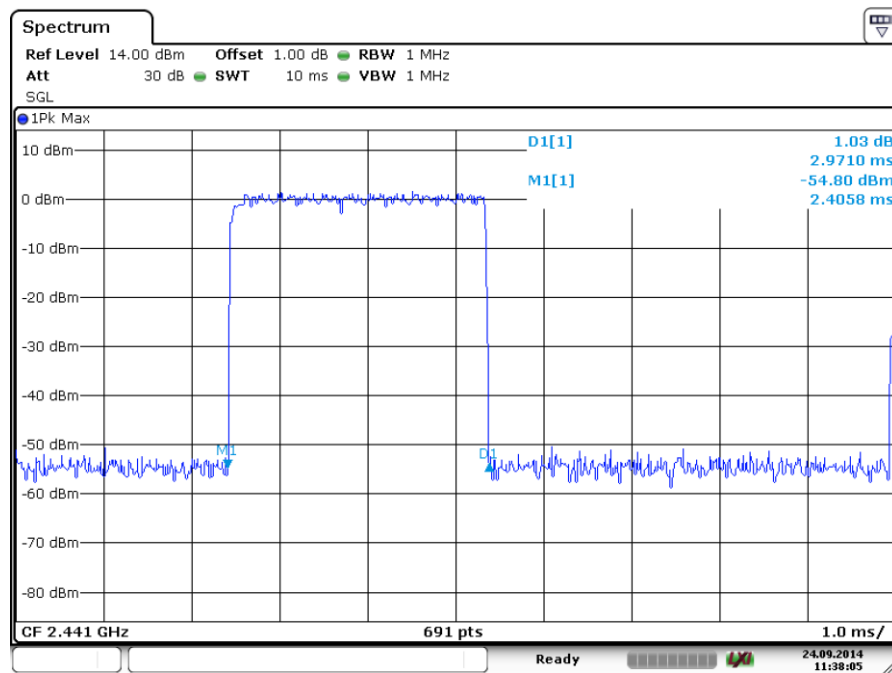
### GFSK Modulation



Date: 24.SEP.2014 11:36:20

DH5

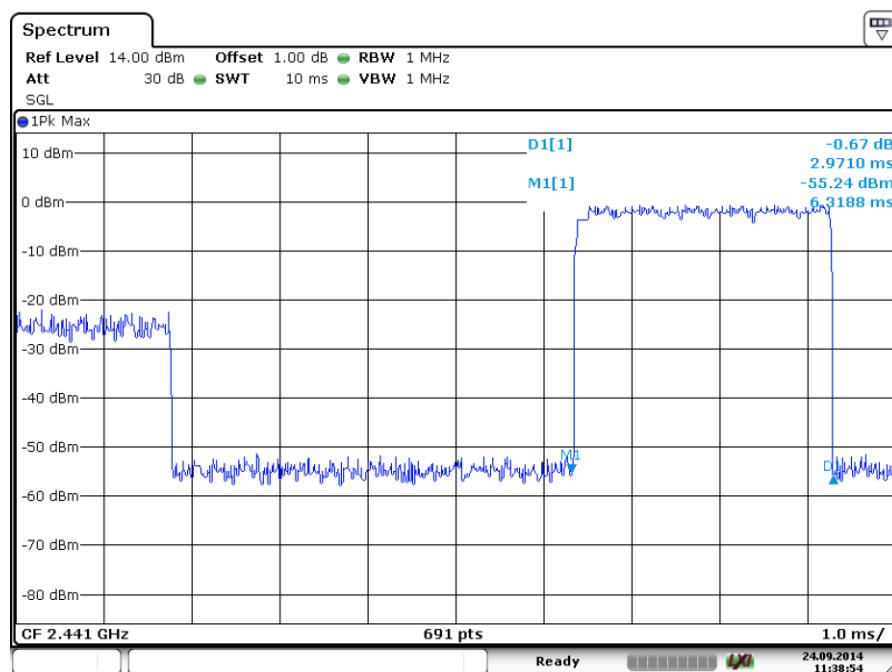
## $\pi/4$ -DQPSK Modulation



Date: 24.SEP.2014 11:38:05

2DH5

## 8-DPSK Modulation



Date: 24.SEP.2014 11:38:55

3DH5

## 9.6 Spurious RF conducted emissions

### Test Method

1. Use the following spectrum analyzer settings:  
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10<sup>th</sup> harmonic. Typically, several plots are required to cover this entire span.  
RBW = 100 kHz, VBW $\geq$ RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
3. The level displayed must comply with the limit specified in this Section. Submit these plots.
4. Repeat above procedures until all frequencies measured were complete.

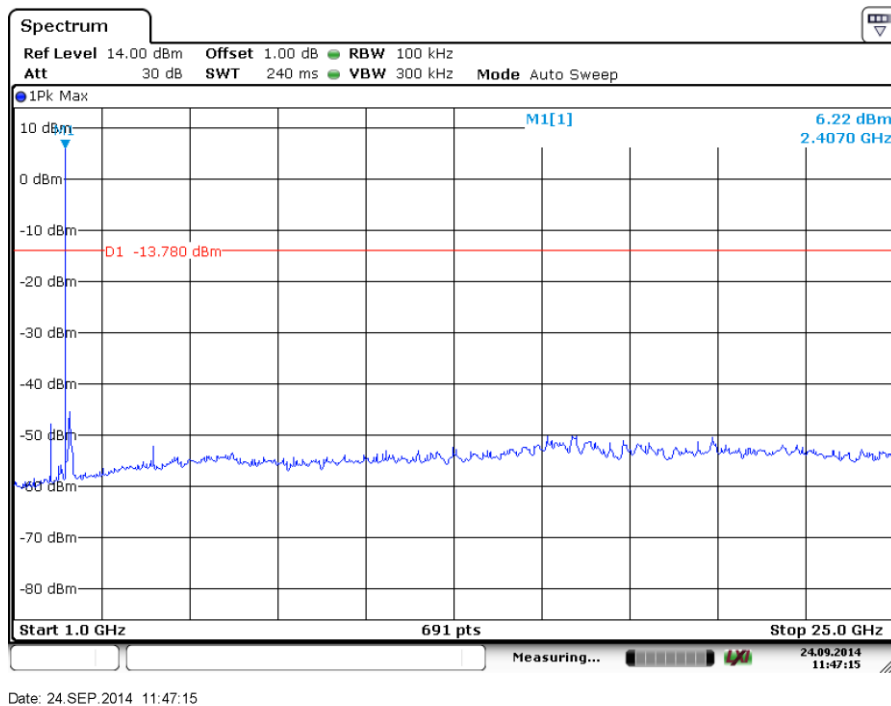
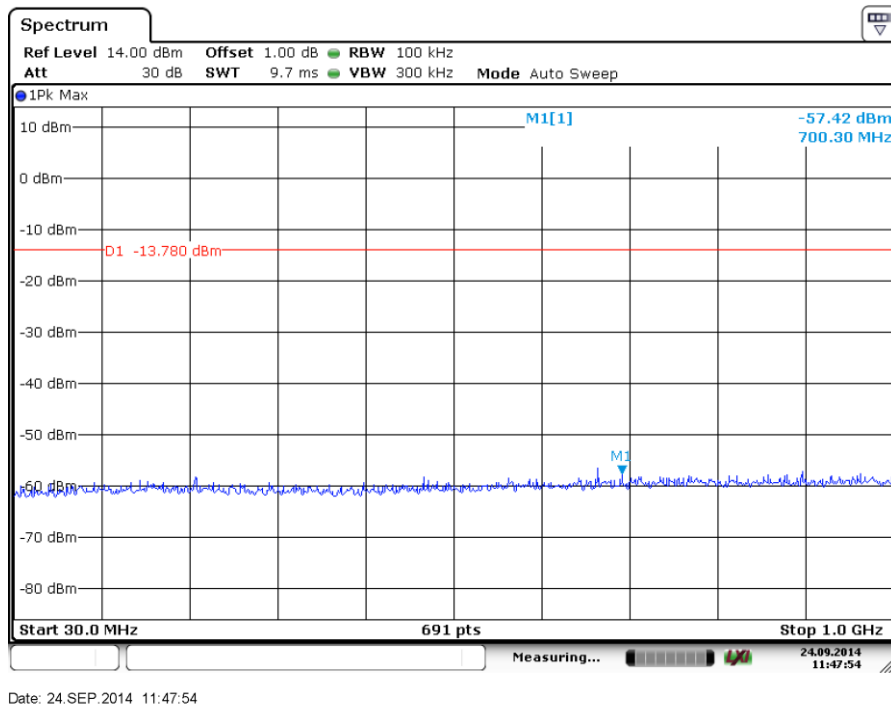
### Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

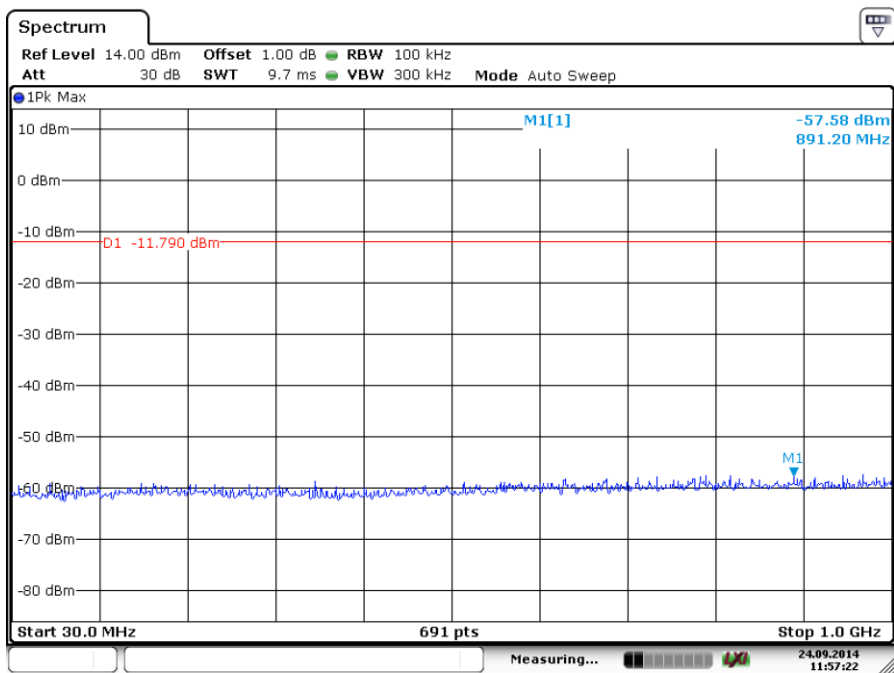
## Spurious RF conducted emissions

Only the worse case (which is subject to the maximum EIRP, GFSK mode) test result is listed in the report.

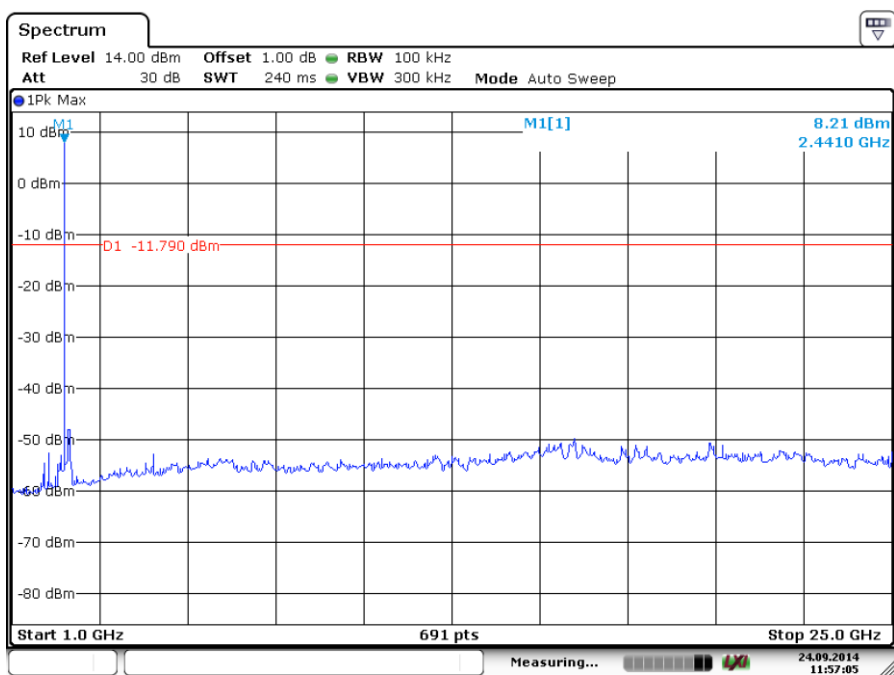
2402MHz



## Spurious RF conducted emissions 2441MHz



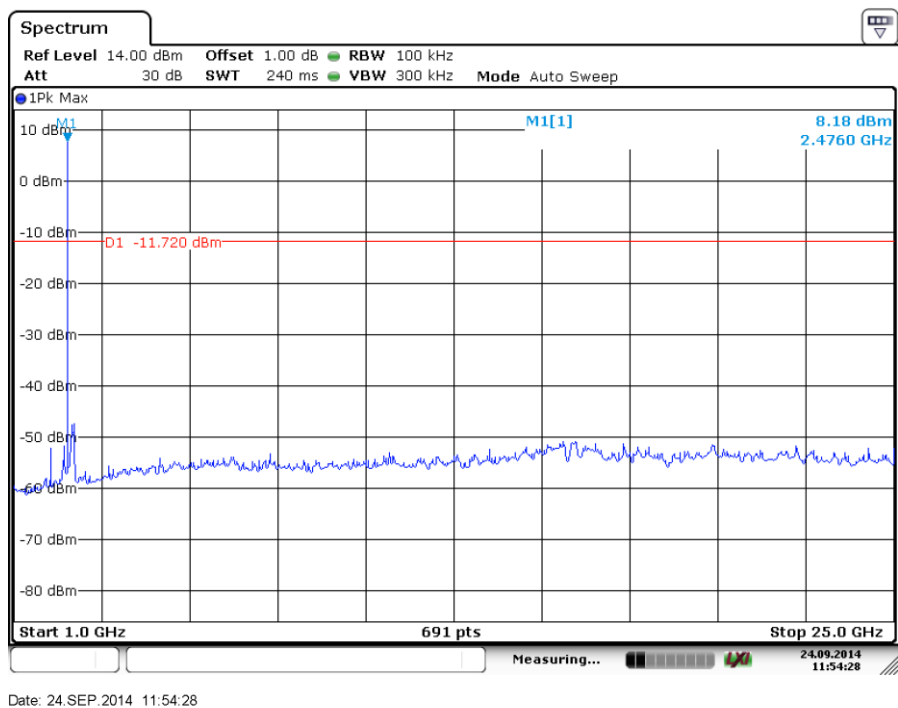
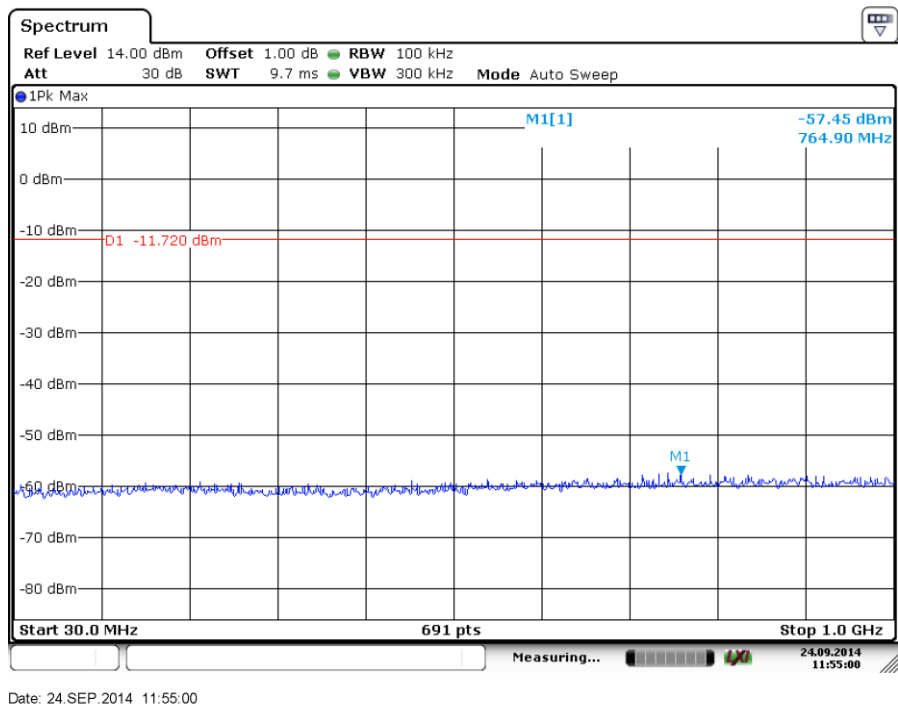
Date: 24.SEP.2014 11:57:21



Date: 24.SEP.2014 11:57:06

## Spurious RF conducted emissions

2480MHz



## 9.7 Band edge testing

### Test Method

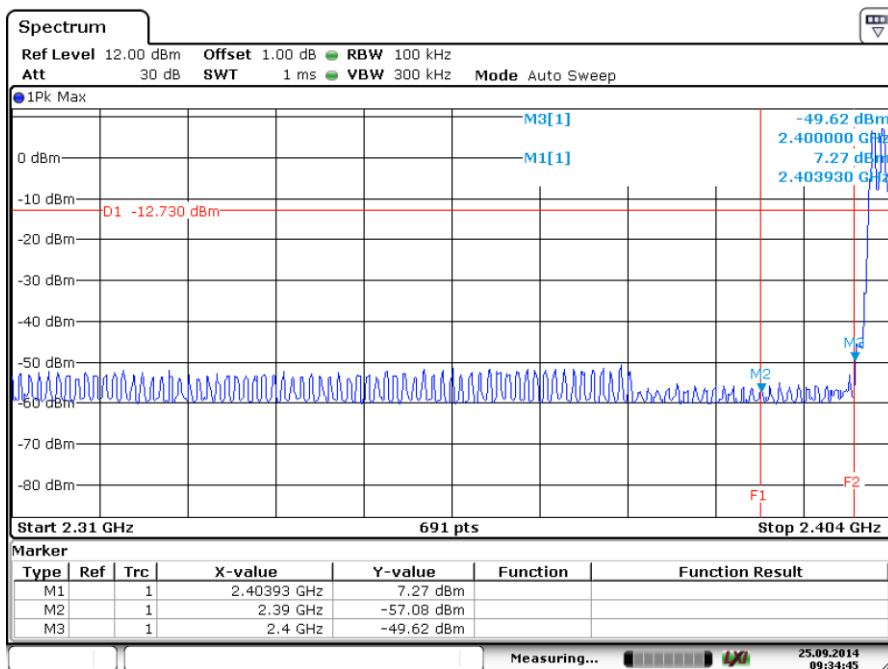
- 1 Use the following spectrum analyzer settings:  
Span = wide enough to capture the peak level of the in-band emission and all spurious  
RBW = 100 kHz, VBW  $\geq$  RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section. .
- 4 Repeat the test at the hopping off and hopping on mode, submit all the plots.

### Limit:

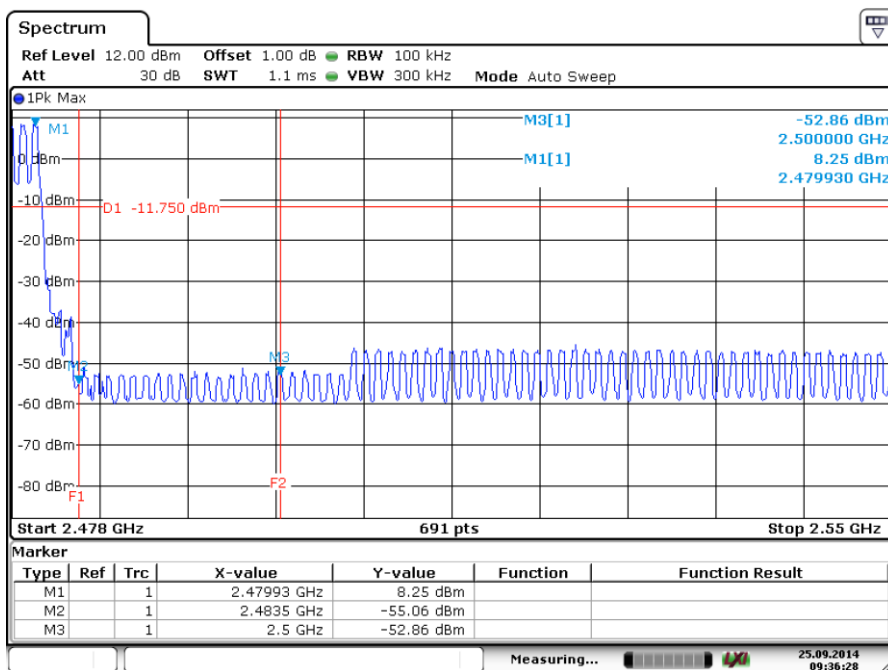
According to §15.247(d) and RSS-210 A8.5, in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) and RSS-Gen7.2.2, must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)) and RSS-Gen.

## Band edge testing

GFSK Modulation Test Result:  
Hopping on mode:



Date: 25.SEP.2014 09:34:45

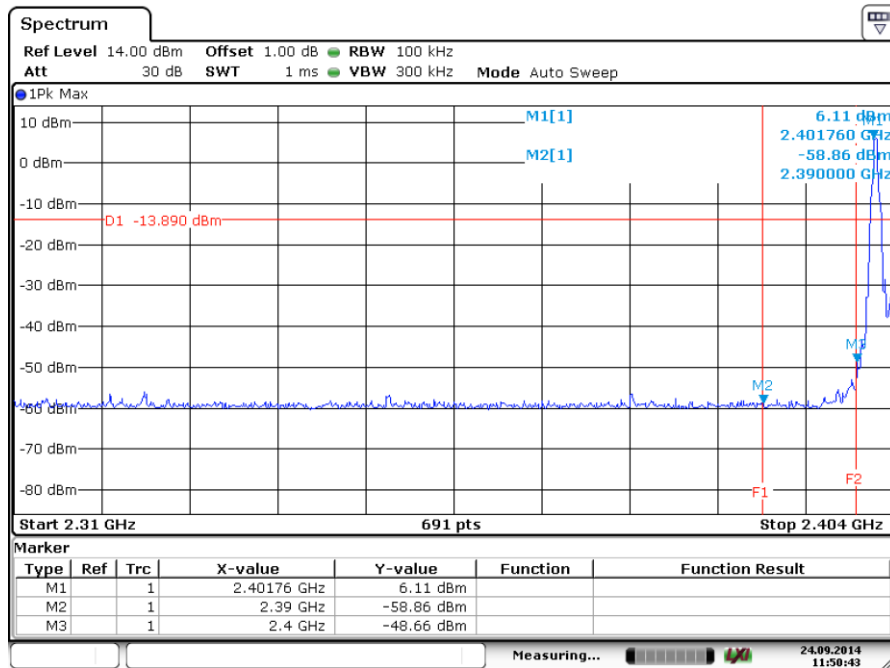


Date: 25.SEP.2014 09:36:28

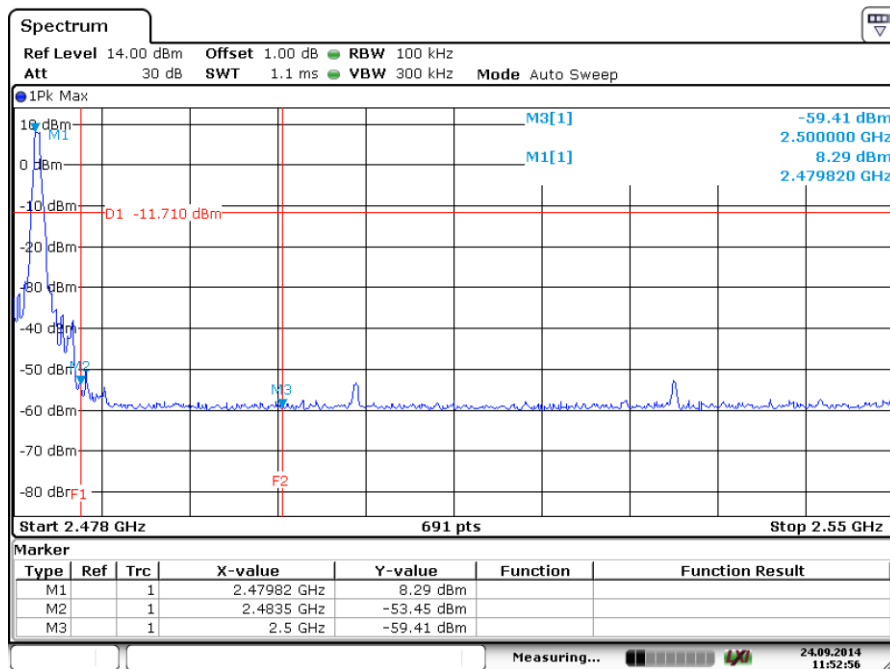


## Band edge testing

Hopping off mode:



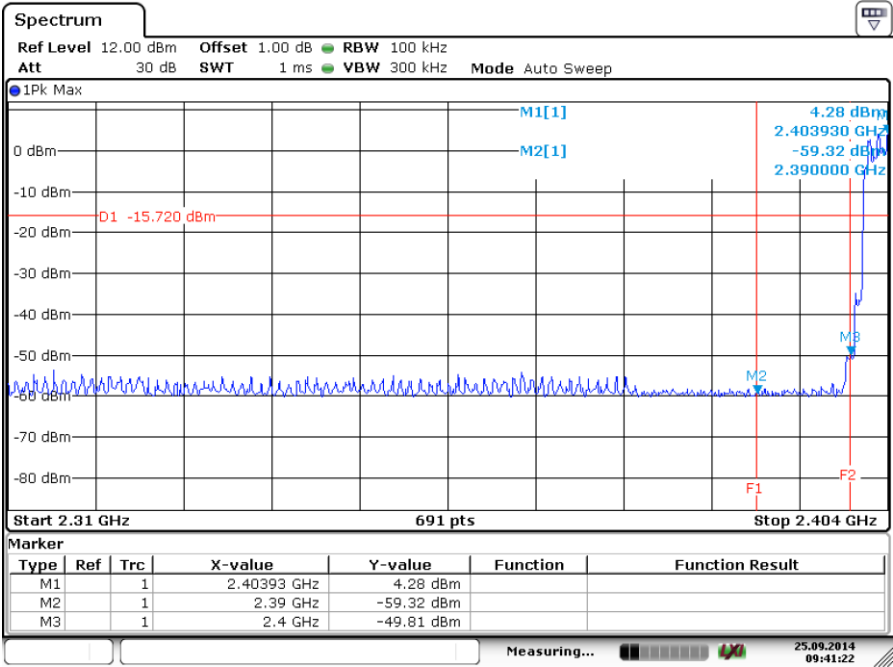
Date: 24.SEP.2014 11:50:43



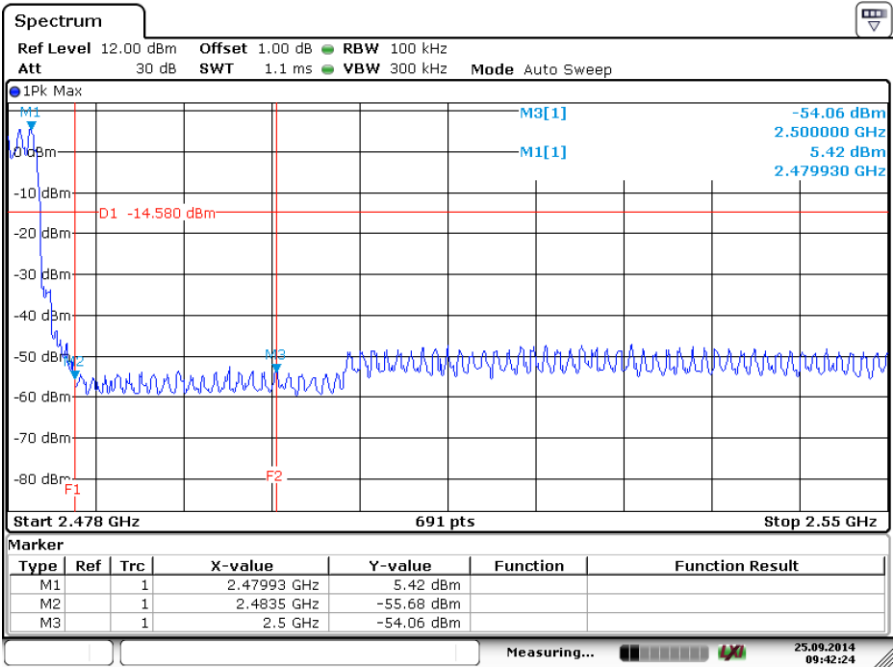
Date: 24.SEP.2014 11:52:56

Band edge testing

8DPSK Modulation Test Result:  
Hopping on mode:



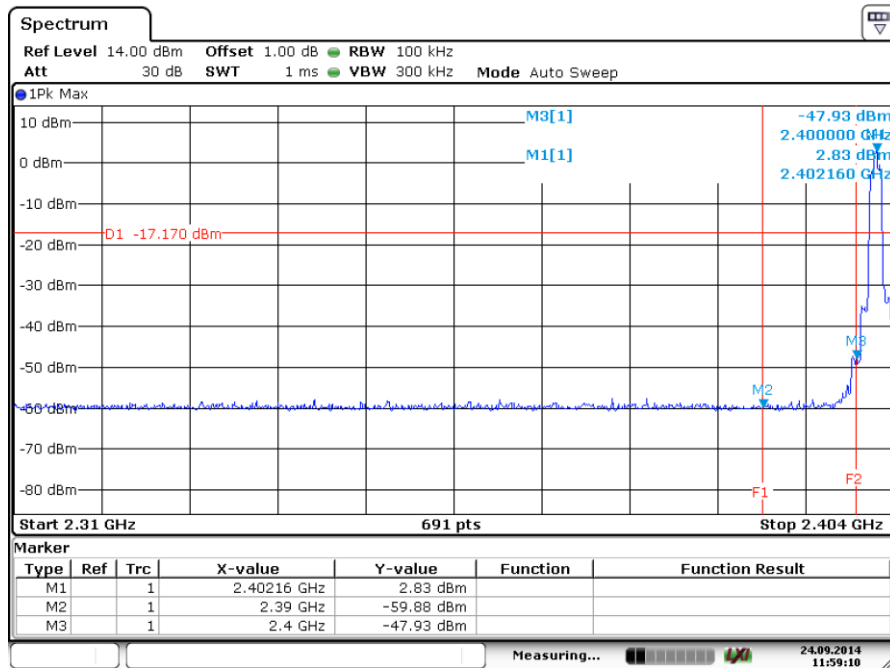
Date: 25.SEP.2014 09:41:22



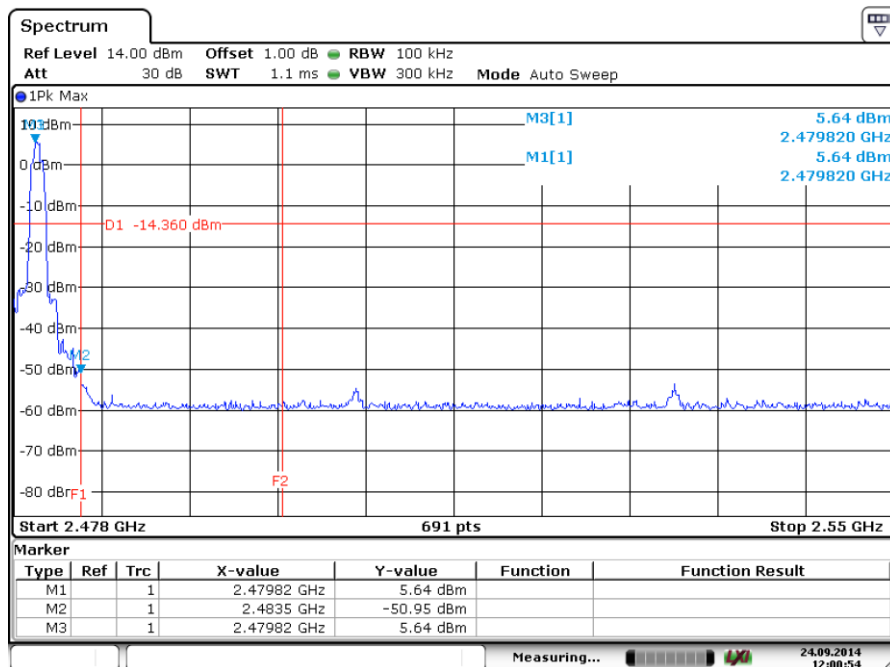
Date: 25.SEP.2014 09:42:25

## Band edge testing

Hopping off mode:



Date: 24.SEP.2014 11:59:10



Date: 24.SEP.2014 12:00:53

## 9.8 Spurious radiated emissions for transmitter

### Test Method

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
3. Use the following spectrum analyzer settings:  
Span = wide enough to fully capture the emission being measured, RBW = 1 MHz for  $f \geq 1\text{GHz}$ , 100 kHz for  $f < 1\text{GHz}$ , VBW  $\geq$  RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Follow the guidelines in ANSI C63.4-1992 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc.  
The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the duty cycle per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from  $20\log(\text{duty cycle}/100\text{ ms})$ , in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

### Limit

According to part 15.247(d), the radio emission outside the operating frequency band 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. Radiated emissions which fall in the restricted bands, as defined in section 15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dBuV/m	Detector
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
Above 1000	5000	74	PK

### Spurious radiated emissions for transmitter

The only worse case (which is subject to the maximum EIRP, GFSK mode) test result is listed in the report.

### Transmitting spurious emission test result as below:

#### Bluetooth Mode GFSK Modulation 2402MHz Test Result

Frequency	Antenna Factor	Cable Loss	Amp. Factor	Reading	Emission Level	Polarization	Limit	Detector	Result
MHz	dB/m	dB	dB	dBuV	dBuV/m		dBuV/m		
242.12	12.45	2.04	0	16.65	31.74	Horizontal	46	QP	Pass
433.21	17.10	2.95	0	10.76	30.81	Horizontal	46	QP	Pass
38.34	15.07	0.68	0	9.97	25.72	Vertical	40	QP	Pass
499.45	18.30	3.22	0	13.71	35.23	Vertical	46	QP	Pass
*4804	32.85	8.56	35.70	53.31	59.02	Horizontal	74	PK	Pass
*4804	--	--	--	--	48.50	Horizontal	54	AV	Pass
*4804	32.85	8.56	35.70	47.91	53.62	Vertical	74	PK	Pass
*4804	--	--	--	--	44.10	Vertical	54	AV	Pass

#### Bluetooth Mode GFSK Modulation 2441MHz Test Result

Frequency	Antenna Factor	Cable Loss	Amp. Factor	Reading	Emission Level	Polarization	Limit	Detector	Result
MHz	dB/m	dB	dB	dBuV	dBuV/m		dBuV/m		
*4882	32.99	8.64	35.70	52.33	58.21	Horizontal	74	PK	Pass
*4882	--	--	--	--	48.69	Horizontal	54	AV	Pass
*4882	32.99	8.64	35.70	49.83	55.76	Vertical	74	PK	Pass
*4882	--	--	--	--	46.24	Vertical	54	AV	Pass

#### Bluetooth Mode GFSK Modulation 2480MHz Test Result

Frequency	Antenna Factor	Cable Loss	Amp. Factor	Reading	Emission Level	Polarization	Limit	Detector	Result
MHz	dB/m	dB	dB	dBuV	dBuV/m		dBuV/m		
*4960	33.13	8.72	35.70	51.66	57.81	Horizontal	74	PK	Pass
*4960	--	--	--	--	48.29	Horizontal	54	AV	Pass
*4960	33.13	8.72	35.70	48.13	54.72	Vertical	74	PK	Pass
*4960	--	--	--	--	45.20	Vertical	54	AV	Pass

Remark:

- (1) QP Emission Level= Antenna Factor +Cable Loss + Reading  
PK Emission Level= Antenna Factor +Cable Loss - Amp. factor + Reading  
AV Emission Level= PK Emission Level+20log(dutycycle)
- (2) 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.
- (3) "\*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.

## 10 Test Equipment List

### List of Test Instruments

	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE	
CE	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Nov.04, 15	<input checked="" type="checkbox"/>
	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Nov.04, 15	<input checked="" type="checkbox"/>
	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.07, 15	<input type="checkbox"/>
	RF Cable	3D-2W	Fujikura	LISN Cable 1#	May.07, 15	<input checked="" type="checkbox"/>
	Coaxial Switch	MP59B	Anritsu	M55367	May.07, 15	<input checked="" type="checkbox"/>
	Passive Probe	ESH2-Z3	Rohde & Schwarz	299.7810.52	May.07, 15	<input type="checkbox"/>
	Pulse Limiter	ESH3-Z2	Rohde & Schwarz	100341	May.07, 15	<input type="checkbox"/>
C	Spectrum	Agilent	E4446A	US44300459	May.08, 15	<input checked="" type="checkbox"/>
RE < 1 GHz	Test Receiver <1GHz	Rohde & Schwarz	ESVS10	834468/011	May.07, 15	<input checked="" type="checkbox"/>
	Amplifier < 1 GHz	HP	8447D	2648A04738	May.07, 15	<input checked="" type="checkbox"/>
	HF Cable	Hubersuhne	Sucoflex104	Room 2	May.08, 15	<input checked="" type="checkbox"/>
	Bilog Antenna	Schaffner	CBL6111C	2598	Oct.25, 15	<input checked="" type="checkbox"/>
RE > 1 GHz	Spectrum > 1GHz	Agilent	E4446A	US44300459	May.08, 15	<input checked="" type="checkbox"/>
	Horn Antenna	EMCO	3115	9607-4877	Jun. 24, 15	<input checked="" type="checkbox"/>
	Amp > 1 Ghz	HP	8449B	3008A08495	May.08, 15	<input checked="" type="checkbox"/>
	HF Cable	Hubersuhne	Sucoflex104	Room1	May.08, 15	<input checked="" type="checkbox"/>

#### C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth
- 20dB bandwidth and 99% Occupied Bandwidth
- Carrier frequency separation
- Number of hopping frequencies
- Dwell Time
- Power spectral density\*
- Spurious RF conducted emissions
- Band edge

## 11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

**System Measurement Uncertainty**

Items	Extended Uncertainty
Radiated spurious emission	4.32dB (30MHz-1GHz) 2.27dB (1GHz -25GHz)
Conducted spurious emission	2.10dB(30MHz-25GHz)
Bandwidth test	$1 \times 10^{-9}$
Conducted emission	2.4dB