



TEST REPORT

Report No.: SRTC2013-H024-E0019

Product Name: GSM/GPRS/EDGE Digital Mobile Phone
with Bluetooth and WiFi

Marketing Name: ONE TOUCH 7041X

Product Model: Yaris-5

Applicant: TCT Mobile Limited

Manufacturer: TCT Mobile Limited

Specification: FCC Part 15, Subpart C (October 9, 2012 edition)

FCC ID: RAD473

The State Radio_monitoring_center Testing Center (SRTC)

No.80 Beilishi Road Xicheng District Beijing, China

Tel: 86-10-68009202 Fax: 86-10-68009205

CONTENTS

1. General information	3
1.1 Notes of the test report	3
1.2 Information about the testing laboratory	3
1.3 Applicant's details	3
1.4 Manufacturer's details	3
1.5 Application details	4
1.6 Reference specification	4
1.7 Information of EUT	4
1.7.1 General information	4
1.7.2 EUT details	5
1.7.3 Auxiliary equipment details	5
2. Test information	7
2.1 Summary of the test results	7
2.2 Test result	8
2.2.1 Occupied Bandwidth	8
2.2.2 Peak Power Output	11
2.2.3 Spurious RF Conducted Emissions	14
2.2.4 Spurious Radiated Emissions	21
2.2.5 Band Edge Compliance	26
2.2.6 Transmitter Power Spectral Density	32
2.3. Measurement Uncertainty	36
2.4. List of test equipment	37
Appendix	38

1. General information

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC).

The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company: The State Radio_monitoring_center Testing Center (SRTC)
Address: No.80 Beilishi Road, Xicheng District, Beijing China
City: Beijing
Country or Region: China
Contacted person: Wang Junfeng
Tel: +86 10 68009181 +86 10 68009202
Fax: +86 10 68009195 +86 10 68009205
Email: wangjf@srrc.org.cn / wangjunfeng@srtc.org.cn

1.3 Applicant's details

Company: TCT Mobile Limited
Address: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area
City: Shanghai
Country or Region: P.R.China
Grantee Code: RAD
Contacted person: Gong Zhizhou
Tel: +86-21-61460890
Fax: +86-21-61460602
Email: zhizhou.gong@tcl.com

1.4 Manufacturer's details

Company: TCT Mobile Limited
Address: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area
City: Shanghai
Country or Region: P.R.China
Contacted person: Gong Zhizhou
Tel: +86-21-61460890
Fax: +86-21-61460602
Email: zhizhou.gong@tcl.com

1.5 Application details

Date of reception of test sample: 9th September 2013

Date of test: 9th September 2013 to 19th December 2013

1.6 Reference specification

FCC Part 15, Subpart C (October 9, 2012 edition)

1.7 Information of EUT

1.7.1 General information

Name of EUT	GSM/GPRS/EDGE Digital Mobile Phone with Bluetooth and WiFi
FCC ID	RAD473
Frequency Range	2.4GHz~2.4835GHz
Number of Channel	39
Modulation Type	GFSK
Duplex Mode	TDD
Channel Spacing	1MHz
Data Rate	1Mbps
Antenna Type	Fixed Internal
Power Supply	Battery or Charger
Rated Power Supply Voltage	3.8V
HW Version	PIO
SW Version	AGJ

1.7.2 EUT details

Product Name	Marketing Name	Product Model	IMEI
GSM/GPRS/EDGE Digital Mobile Phone with Bluetooth and WiFi	ONE TOUCH 7041X	Yaris-5	863859021000059

1.7.3 Auxiliary equipment details

Equipment	Charger
Manufacturer	Ten Pao Industrial Co., Ltd.
Model Number	S005UU0500100
Input Voltage	100V-240V a.c.
Output Voltage	5.0V d.c.
Frequency	50/60Hz

Equipment	Charger
Manufacturer	HUIZHOU BYD ELECTRONIC CO., LTD.
Model Number	TUUS050100-A00
Input Voltage	100V-240V a.c.
Output Voltage	5.0V d.c.
Frequency	50/60Hz

Equipment	Battery
Manufacturer	BYD COMPANY LIMITED
Model Number	TLi020F1
Capacity	2000mAh
Rated Voltage	4.35V d.c.

Equipment	Battery
Manufacturer	SCUD (FUJIAN) Electronics Co., Ltd.
Model Number	TLi019B2
Capacity	1900mAh
Rated Voltage	4.35V d.c.

Equipment	Data Cable
Manufacturer	Shenzhen Juwei Electronics Co., Ltd.
Model Number	CDA3122002C1

Equipment	Data Cable
Manufacturer	Huizhou Shenghua Industry Co., Ltd.
Model Number	CDA3122002C2

Equipment	Data Cable
Manufacturer	Shenzhen Juwei Electronics Co., Ltd.
Model Number	CDA3122005C1


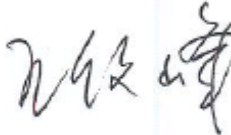

Equipment	Data Cable
Manufacturer	Huizhou Shenghua Industry Co., Ltd.
Model Number	CDA3122005C2

Note: As the information described above, there are two different models of charger manufactured by two different companies, two different models of battery manufactured by two different companies and four different models of data cable manufactured by two different companies. The relevant tests have been performed in order to verify in which combination case (EUT exercised by only one model of charger, one model of battery and one model of data cable) the EUT would have the worst features. So all the tests shown in this test report are performed when the EUT exercised by the charger TUUS050100-A00, the battery TLi020F1 and the data cable CDA3122002C1.

2. Test information

2.1 Summary of the test results

No.	Test case	FCC reference	Verdict
1	Occupied Bandwidth	15.247(a)(2)	Pass
2	Peak Power Output	15.247(b)(3)	Pass
3	Spurious RF Conducted Emissions	15.247(d)	Pass
4	Spurious Radiated Emissions	15.247(d)/15.35(b)/15.209	Pass
5	Band Edge Compliance	15.247(d)	Pass
6	Transmitter Power Spectral Density	15.247(e)	Pass

<p>This Test Report Is Issued by: Mr. Song Qizhu Director of the test lab</p> 	<p>Checked by: Mr. Wang Junfeng Deputy director of the test lab</p> 
<p>Tested by: Mr. Li Bin Test engineer</p> 	<p>Issued date:</p> <p>2014.01.14</p>

2.2 Test result

2.2.1 Occupied Bandwidth

2.2.1.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.1kPa

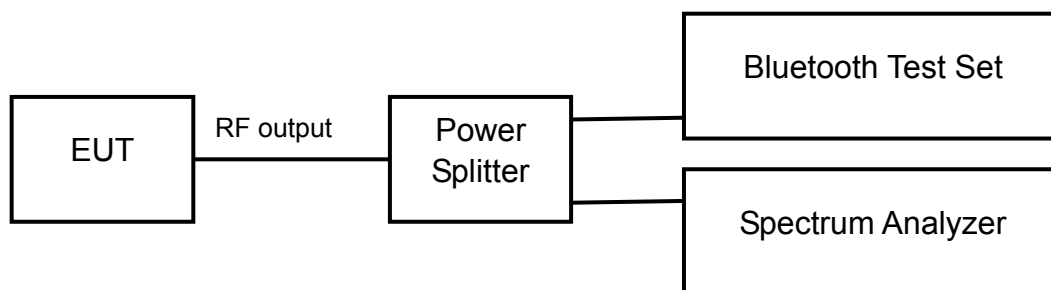
2.2.1.2 Test Description

The measurement is made according to ANSI C63.10-2009.

The Equipment Under Test (EUT) was setup in a shielded room to perform the occupied bandwidth measurements.

The reference level is the level of the highest amplitude signal observed from the transmitter at either the fundamental frequency or first-order modulation products in all typical modes of operation, including the unmodulated carrier, even if atypical.

The results recorded were measured with the modulation which produces the worst-case (widest) occupied bandwidth.



2.2.1.3 Test limit

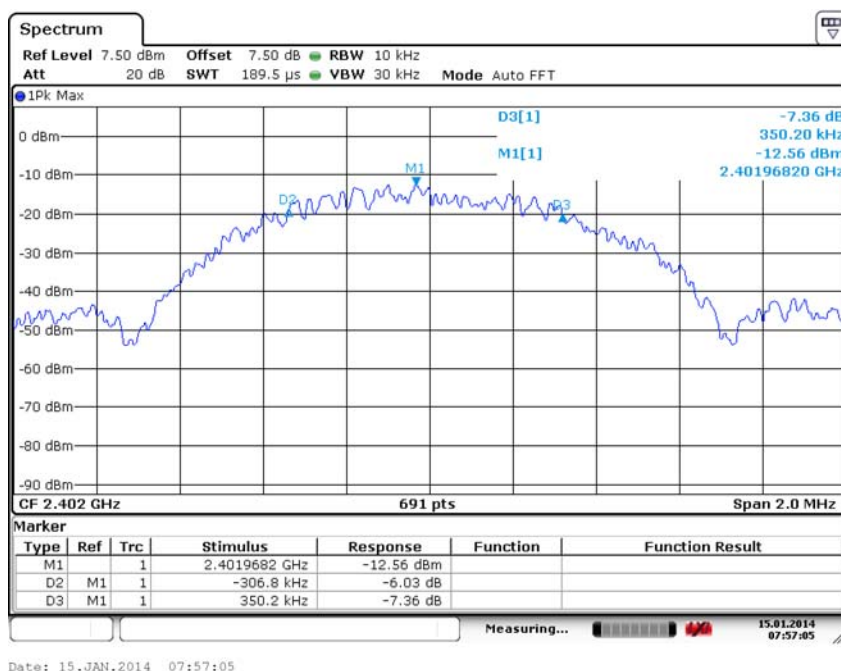
FCC Part15.247(a)(2)

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

2.2.1.4 Test result

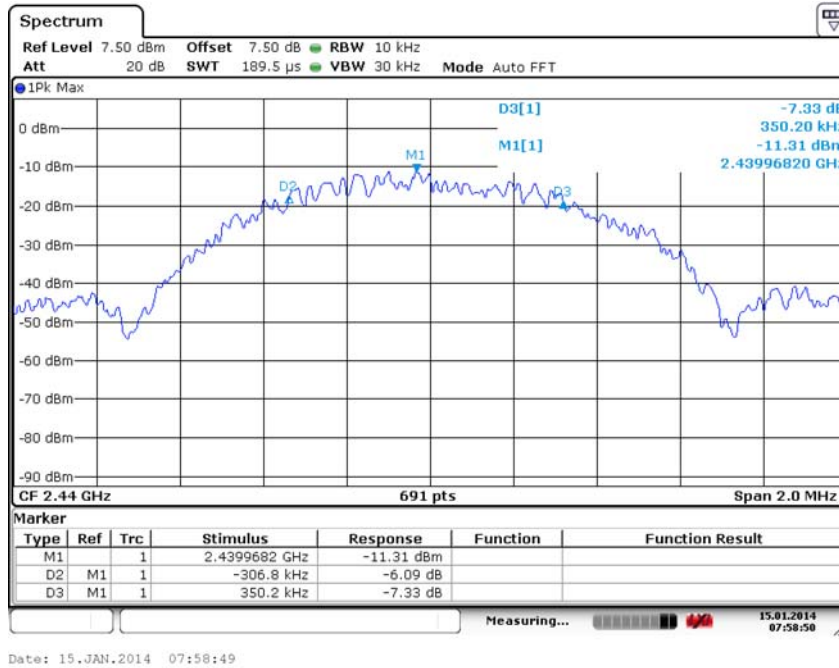
Modulation type: GFSK(LE)

Carrier frequency (MHz)	Channel No.	6 dB bandwidth(kHz)
2402	0	657.0
2440	19	657.0
2480	39	657.0

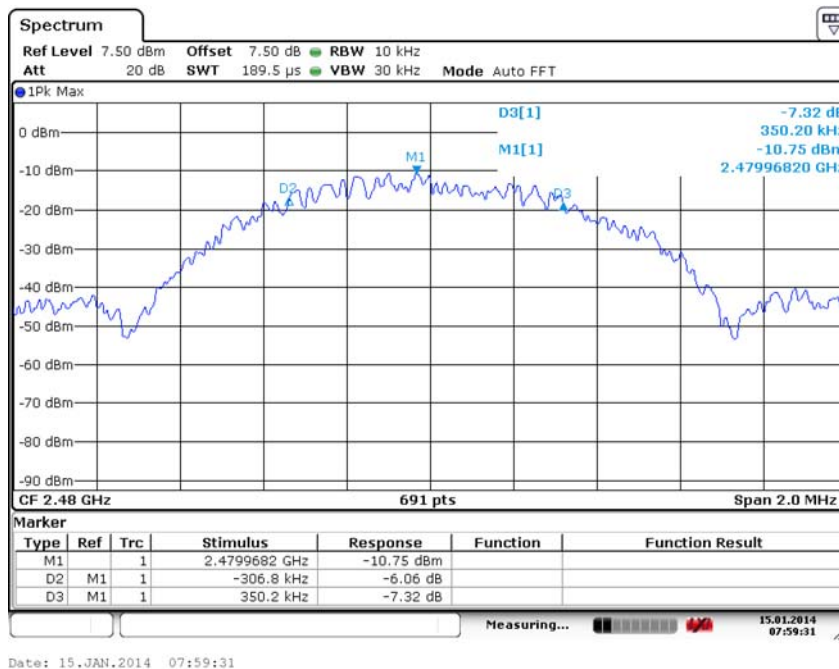


Date: 15.JAN.2014 07:57:05

Carrier frequency (MHz): 2402
Channel No.:0
Modulation type: GFSK(LE)



Carrier frequency (MHz): 2440
Channel No.:19
Modulation type: GFSK(LE)



Carrier frequency (MHz): 2480
Channel No.:39
Modulation type: GFSK(LE)

2.2.2 Peak Power Output

2.2.2.1 Ambient condition:

Temperature	Relative humidity	Pressure
22°C	40%	101.1kPa

2.2.2.2 Test Description

The measurement is made according to ANSI C63.10-2009.

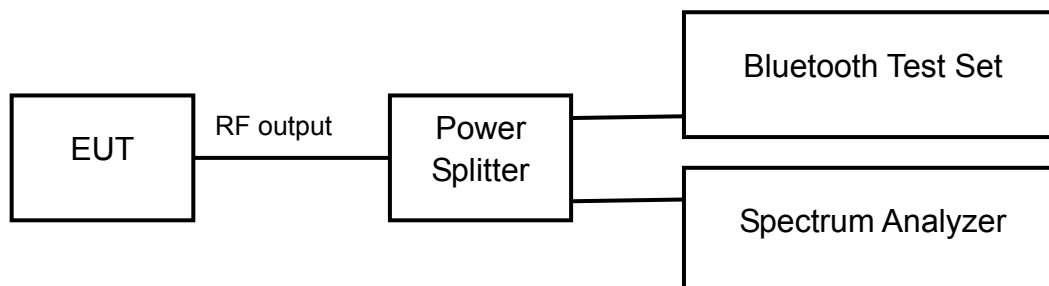
The Equipment Under Test (EUT) was set up in a shielded room to perform the output power measurements.

The results recorded were measured with the modulation which produces the worst-case (highest) output power.

The resolution bandwidth for measuring the output power was 2 MHz.

The reference level of the spectrum analyzer was set higher than the output power of the EUT.

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss.



2.2.2.3 Test limit

FCC Part15.247(b)(3):

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

Used conversion factor: Limit (dBm) = 10 log (Limit (W)/1mW)

==> Maximum Output Power: 30 dBm

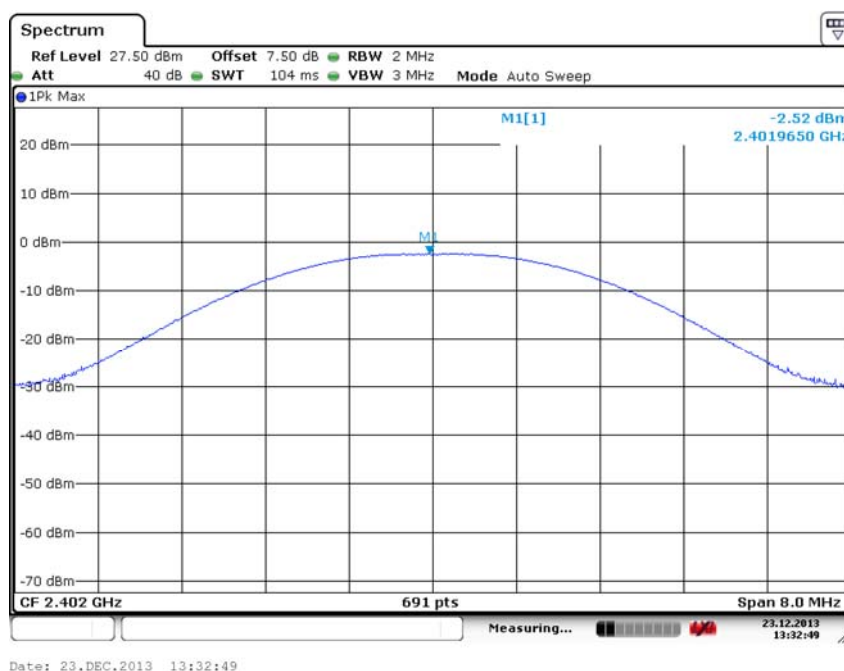
2.2.2.4 Test Condition

Hopping Mode	Modulation type	RBW	VBW	Span	Sweep time
Hopping OFF	GFSK(LE)	2MHz	3MHz	8MHz	1ms

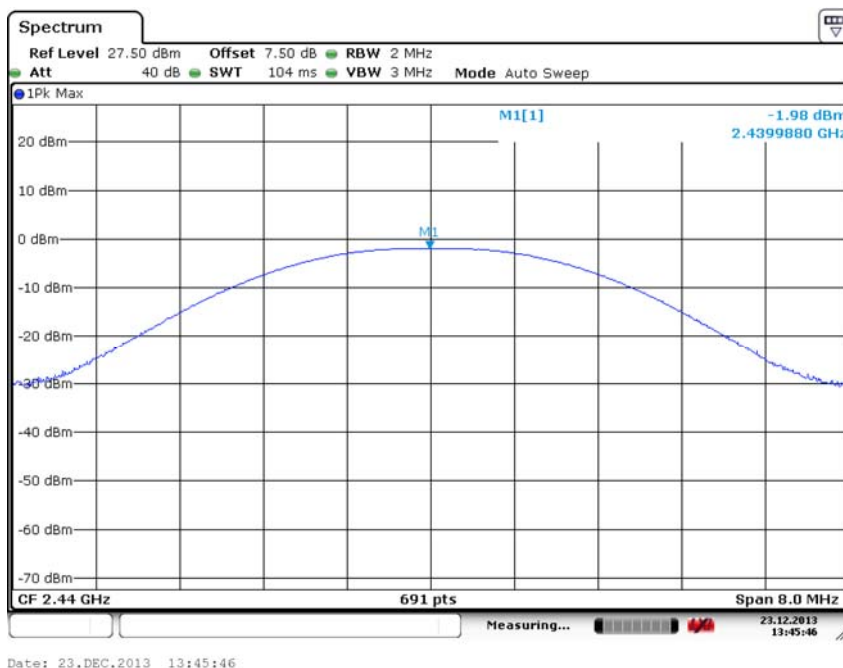
2.2.2.5 Test result:

Modulation type	Average Power Output (dBm)		
	2402MHz (Ch0)	2440MHz (Ch19)	2480MHz (Ch39)
GFSK(LE)	-2.63	-1.01	-0.72

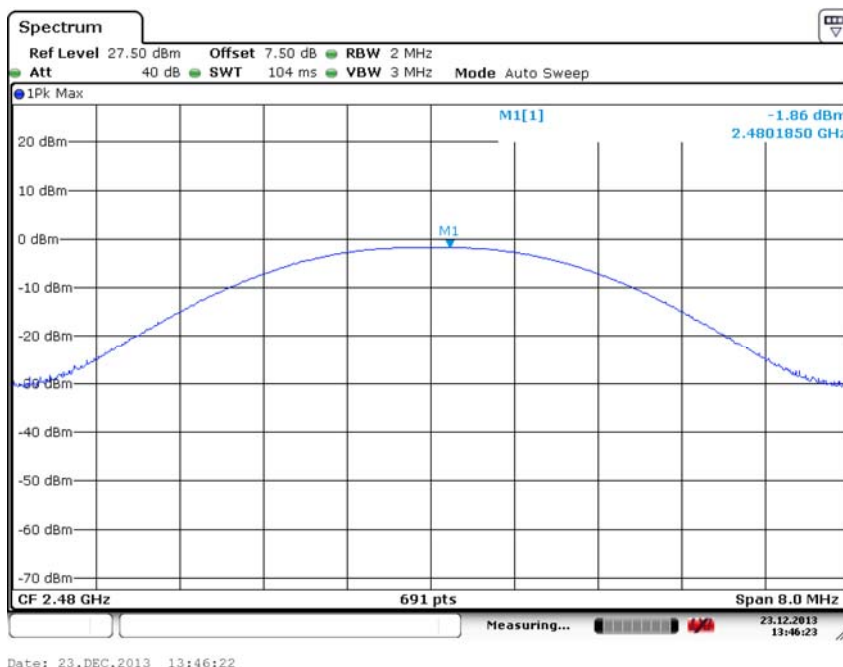
Modulation type	Peak Power Output (dBm)		
	2402MHz (Ch0)	2440MHz (Ch19)	2480MHz (Ch39)
GFSK(LE)	-2.52	-1.98	-1.86



Carrier frequency (MHz): 2402
Channel No.:0
Modulation type: GFSK(LE)



Carrier frequency (MHz): 2440
Channel No.:19
Modulation type: GFSK(LE)



Carrier frequency (MHz): 2480
Channel No.:39
Modulation type: GFSK(LE)

2.2.3 Spurious RF Conducted Emissions

2.2.3.1 Ambient condition:

Temperature	Relative humidity	Pressure
22°C	40%	101.1kPa

2.2.3.2 Test Description

The measurement is made according to ANSI C63.10-2009.

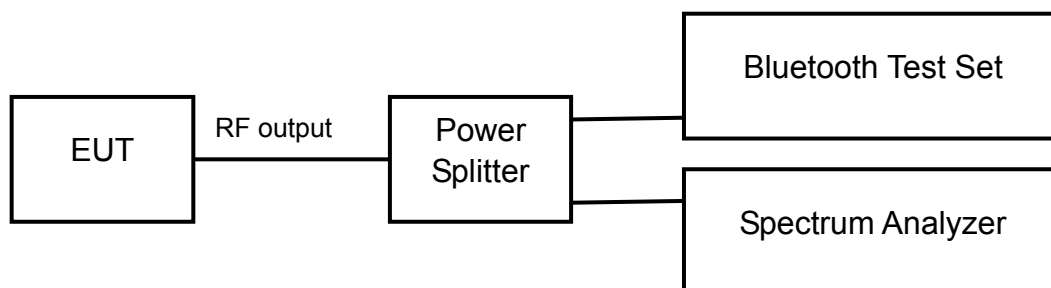
The Equipment Under Test (EUT) was set up in a shielded room to perform the spurious emissions measurements.

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss.

Analyzer settings:

- Detector: Peak-Maxhold
- Frequency range: 30 ~25000 MHz
- Resolution Bandwidth (RBW): 100 kHz
- Video Bandwidth (VBW): 300 kHz

The reference value for the measurement of the spurious RF conducted emissions is determined during the test “band edge compliance” (cf. chapter 4.5). This value is used to calculate the 20 dBc limit.



2.2.3.3 Test limit

FCC Part15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

2.2.3.4 Test result

Carrier frequency (MHz): 2402

Channel No.:0

Modulation type: GFSK(LE)

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

Carrier frequency (MHz): 2440

Channel No.:19

Modulation type: GFSK(LE)

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

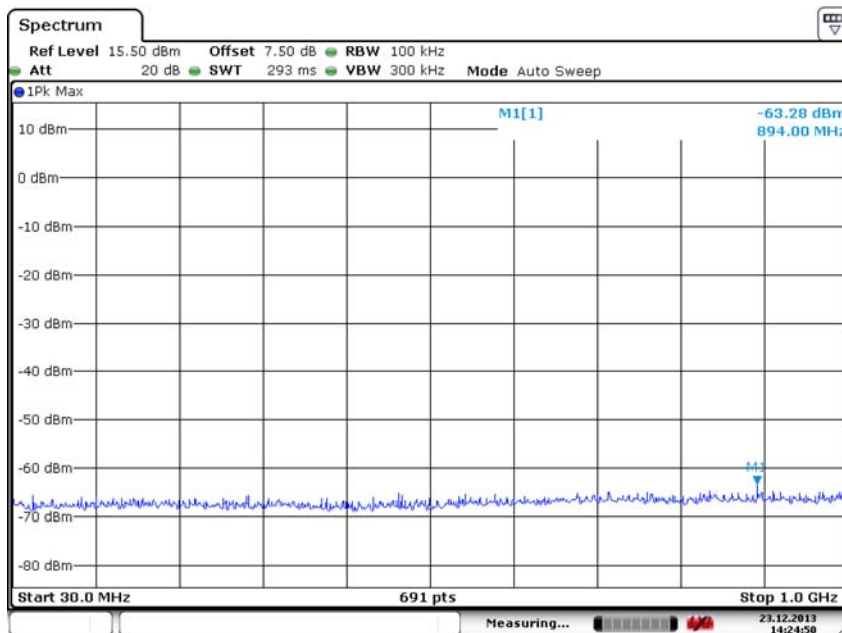
Carrier frequency (MHz): 2480

Channel No.:39

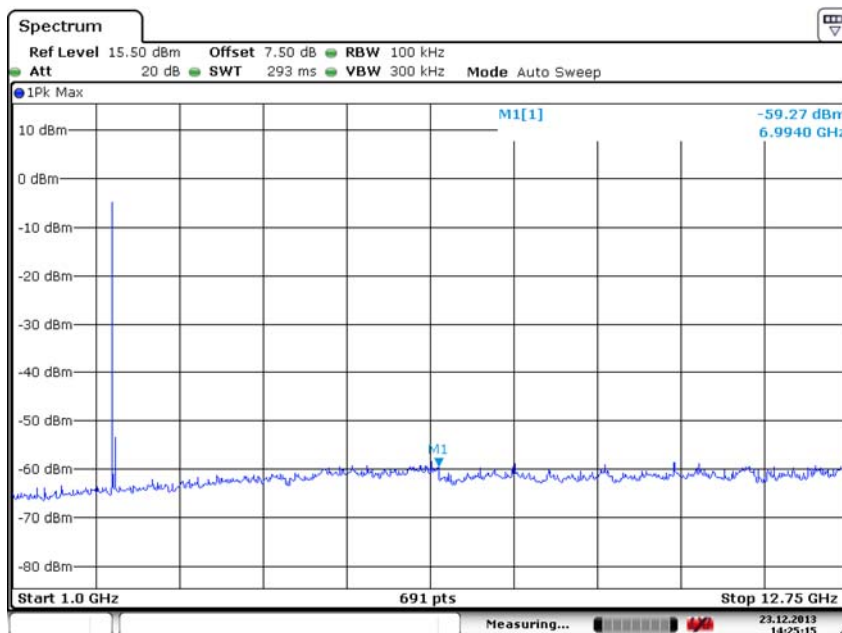
Modulation type: GFSK(LE)

Frequency MHz	Corrected measurement value dBm	Reference value dBm	Limit dBm	Delta dB
---	---	---	---	---
---	---	---	---	---

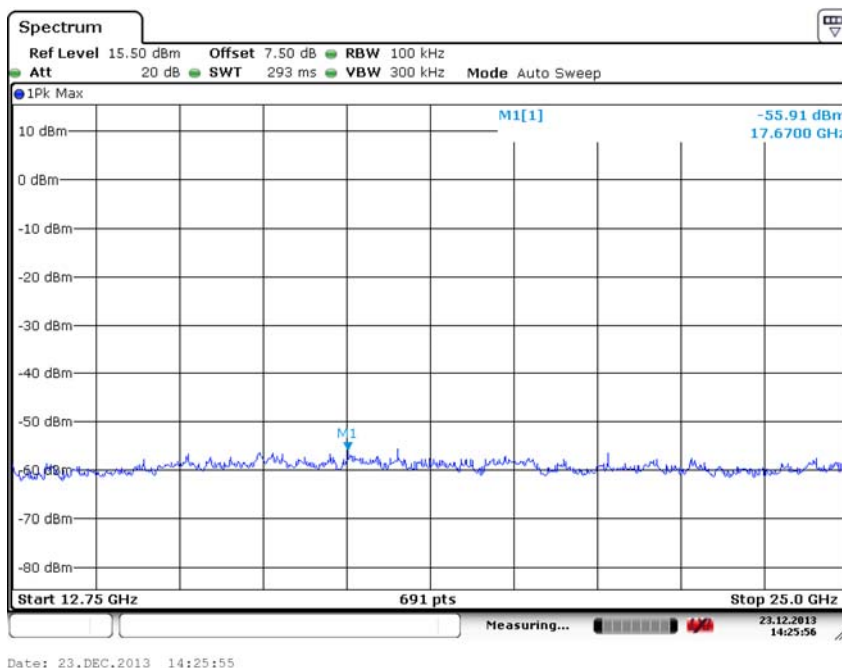
Note: The Reference value see 2.2.5 Band Edge Compliance



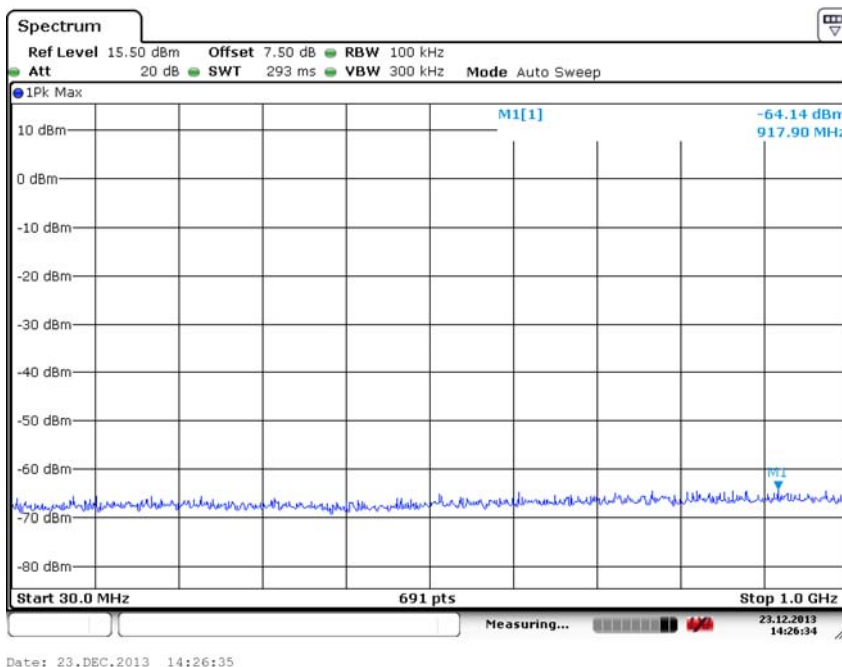
Date: 23.DEC.2013 14:24:49

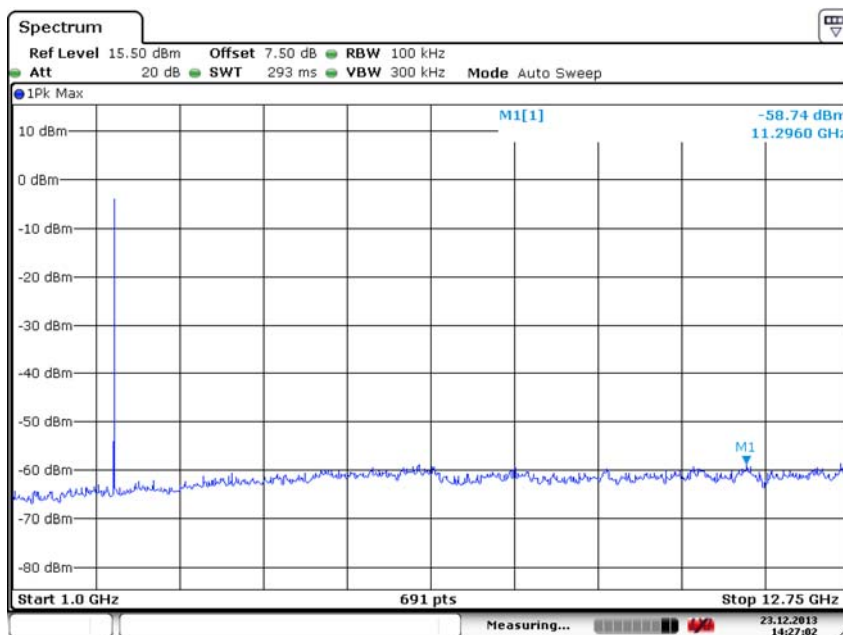


Date: 23.DEC.2013 14:25:15

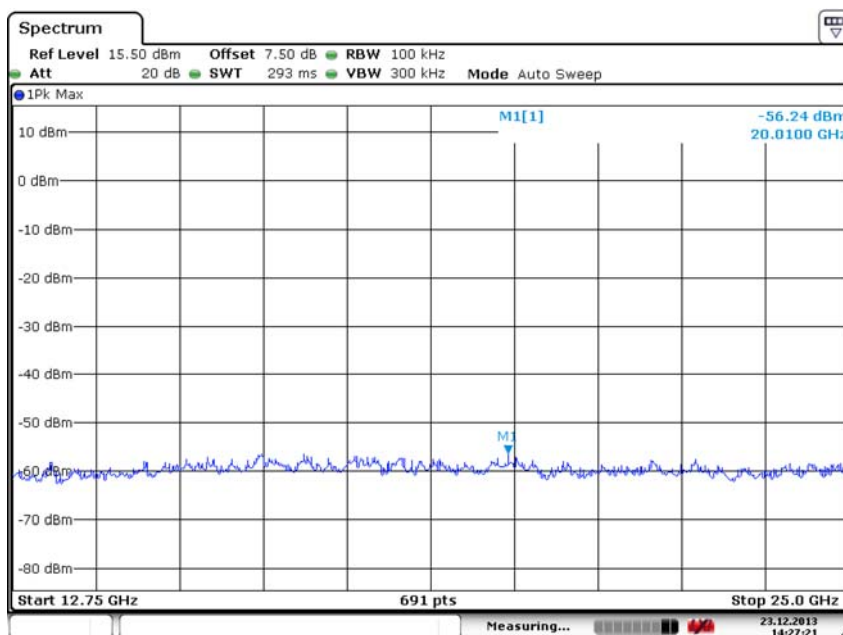


Carrier frequency (MHz): 2402
Channel No.:0
Modulation type: GFSK(LE)



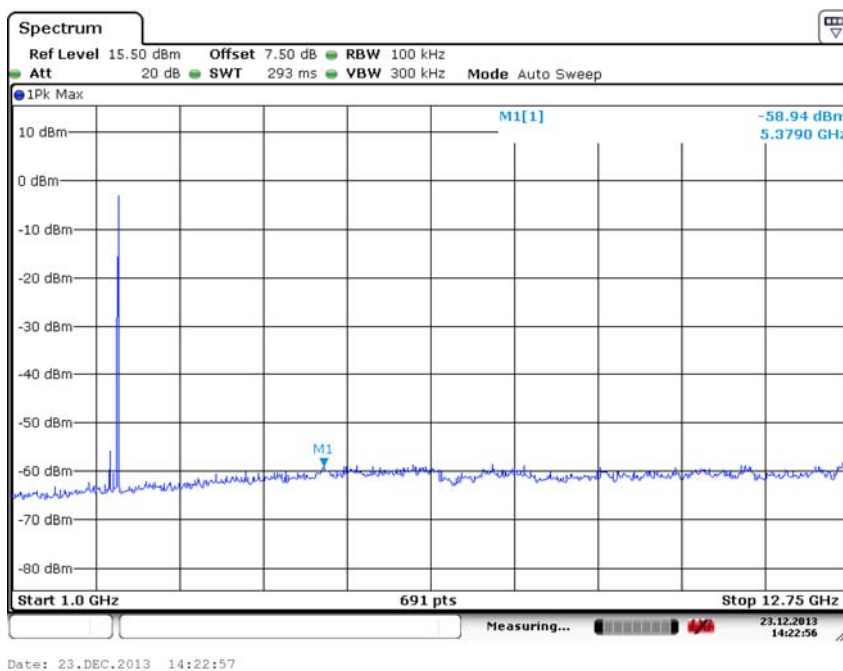
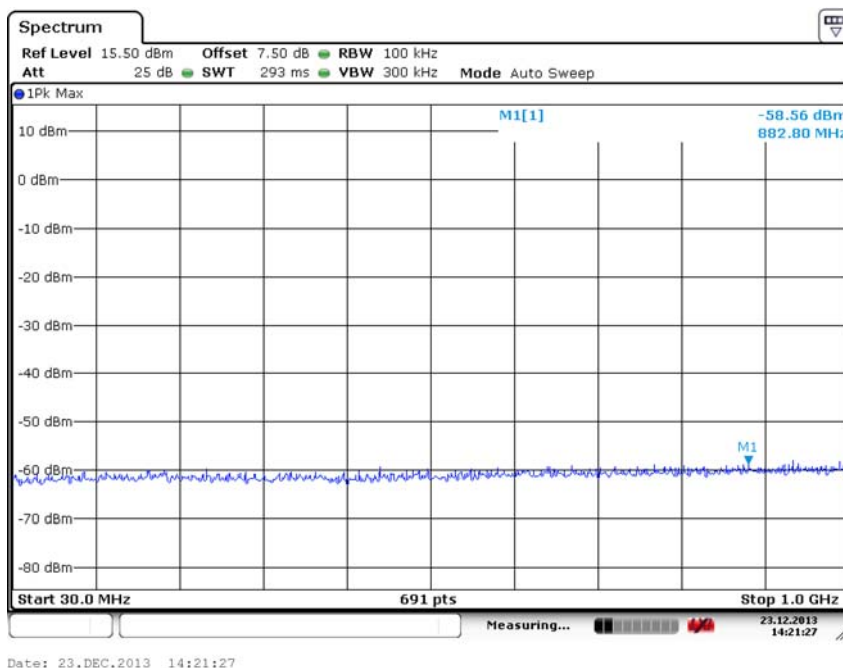


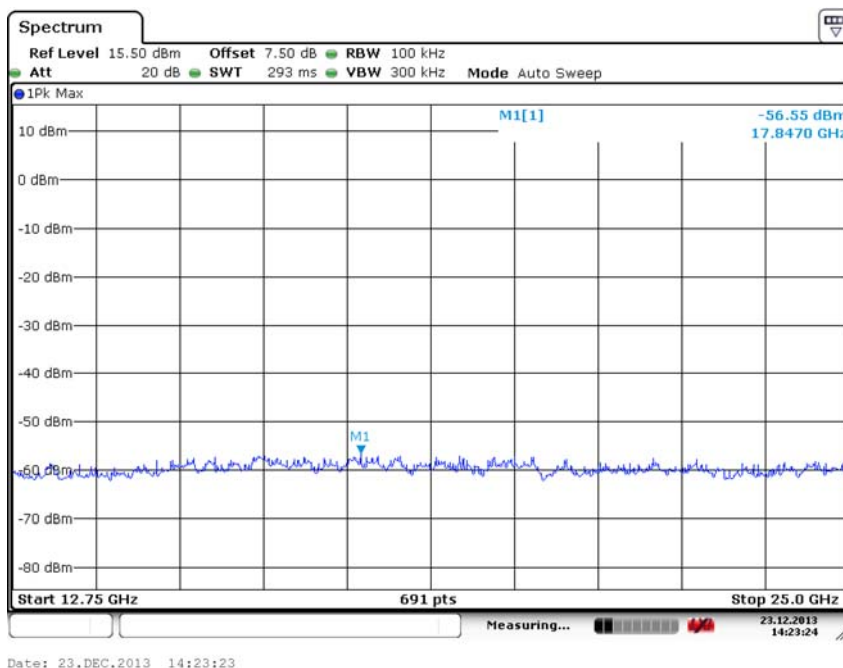
Date: 23.DEC.2013 14:27:01



Date: 23.DEC.2013 14:27:22

Carrier frequency (MHz): 2440
Channel No.:19
Modulation type: GFSK(LE)





Carrier frequency (MHz): 2480
Channel No.:39
Modulation type: GFSK(LE)

2.2.4 Spurious Radiated Emissions

2.2.4.1 Ambient condition

Temperature	Relative humidity	Pressure
24.3°C	36.2%	100.2kPa

2.2.4.2 Test Description

The measurement is made according to ANSI C63.10-2009.

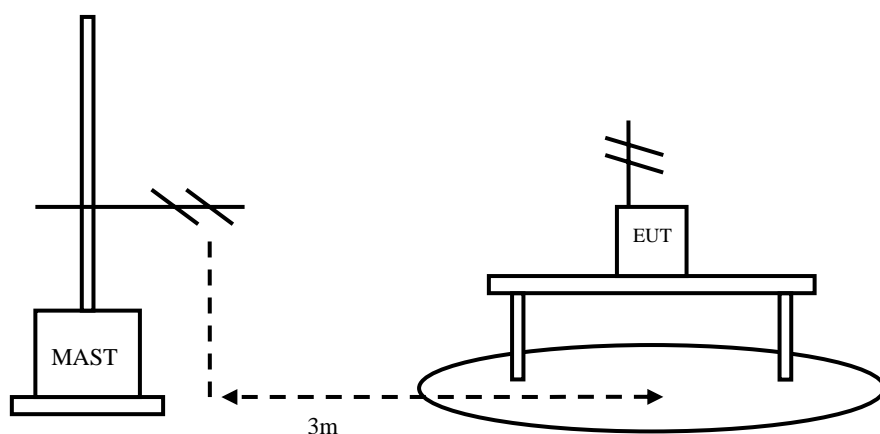
The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna.

The radiated emissions measurements were made in a typical installation configuration.

Then start the test software ES-K1. Sweep the whole frequency band through the range from 30MHz to 1GHz or above, using receive log period antenna HL562 or Ridge horn antenna HF906.

During the test, the antenna height and EUT azimuth were varied in order to identify the maximum level of emission from the EUT. The height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees. The measurements shall be repeated with orthogonal polarization of the test antenna. The results (reference to 2.2.4.4) shall be showed the worst case of the three orthogonal axes.

The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.



2.2.4.3 Test limit

FCC Part15.247(d):

... 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)).

FCC Part15.209:

Radiated Emission Limits

Frequency of Emission(MHz)	Limits	
	Detector	Unit (dB μ V/m)
30~88	Quasi-peak	40.0
88~216	Quasi-peak	43.5
216~960	Quasi-peak	46.0
960~1000	Quasi-peak	54.0
1000~5th harmonic of the highest frequency or 40GHz, whichever is lower	Average	54.0
	Peak	74.0

FCC Part15.35(b):

..., there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit....

Used conversion factor: Limit (dB μ V/m) = 20 log (Limit (μ V/m)/1 μ V/m)

2.2.4.4 Test result

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

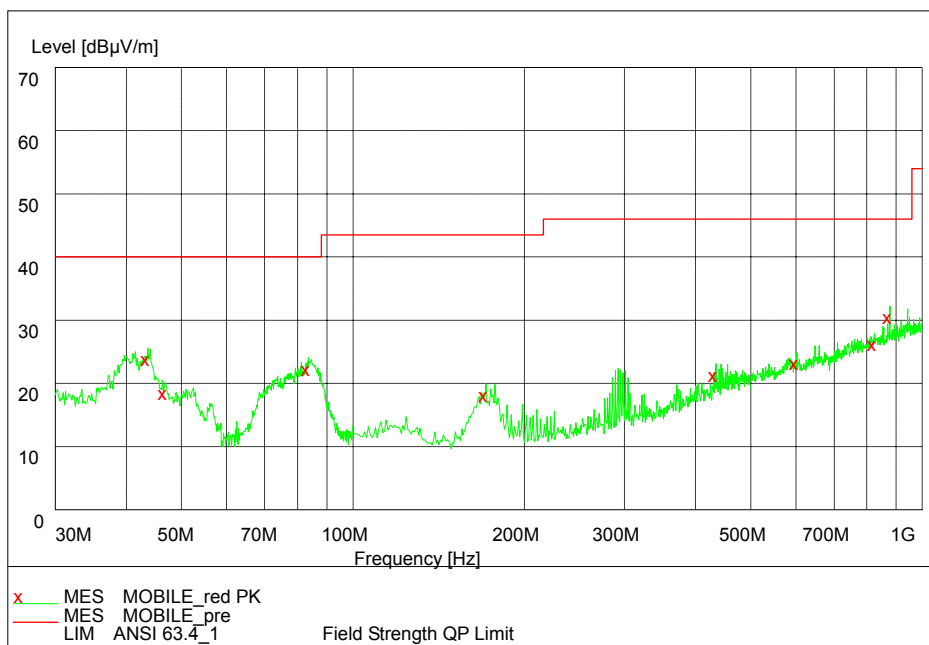
The measurement results are obtained as described below:

$$\text{Result} = P_{\text{mea}} + A_{\text{Rpl}}$$

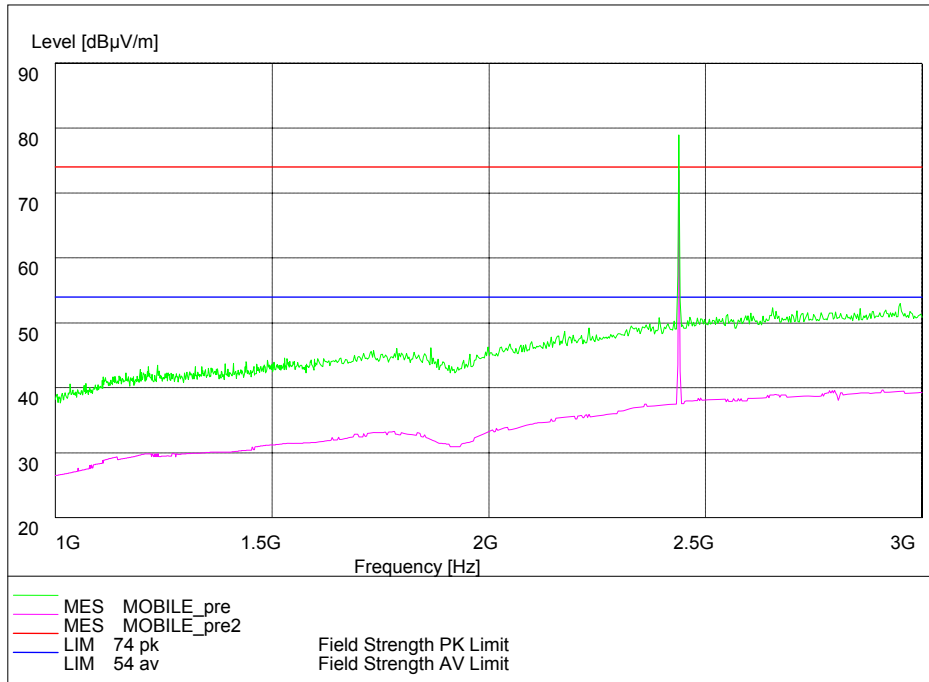
The worst case attitude: The mobile lay down.

For GFSK(LE)
Channel No.:19

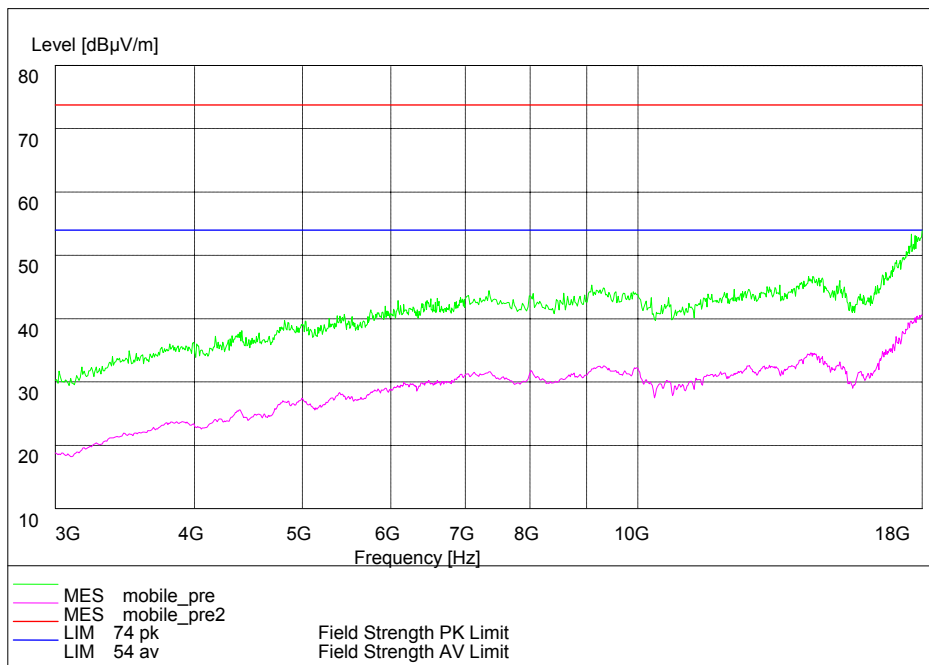
Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{mea} (dBuV/m)	Polarity
43.19	25.09	13.50	11.59	Vertical
46.55	21.00	11.00	10.00	Vertical
84.43	24.63	8.00	16.63	Horizontal
174.55	22.49	7.70	14.79	Vertical
301.20	23.95	11.80	12.15	Horizontal
621.24	24.86	19.50	5.36	Horizontal
820.64	28.97	22.90	6.07	Vertical
877.76	33.06	23.60	9.46	Horizontal



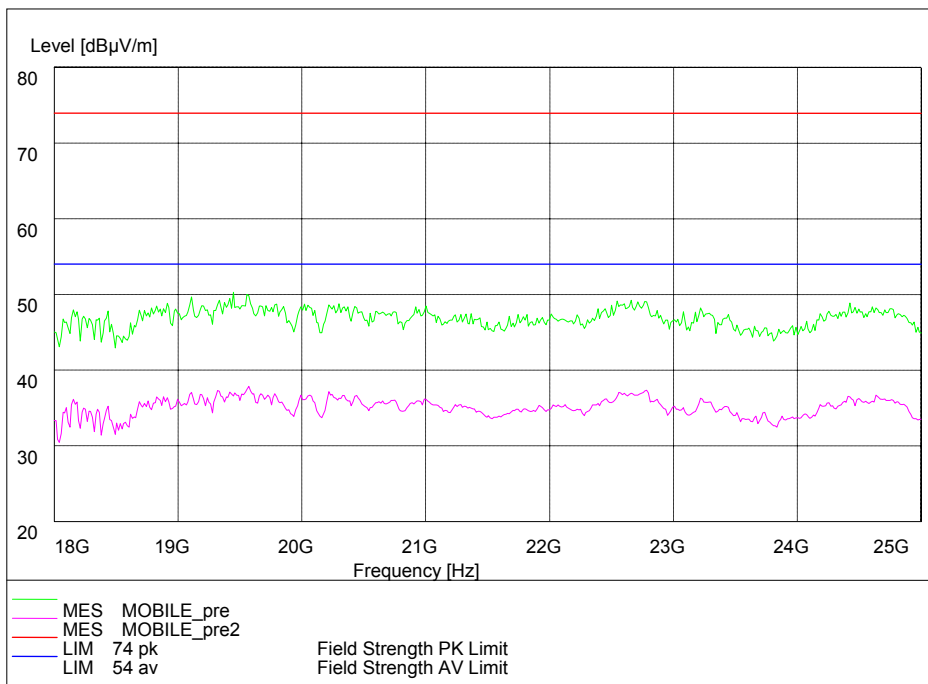
Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: GFSK(LE)



Frequency Range: 1GHz-3GHz
 Detector: Av mode and PK mode
 Modulation type: GFSK(LE)



Frequency Range: 3GHz-18GHz
 Detector: Av mode and PK mode
 Modulation type: GFSK(LE)



Frequency Range: 18GHz-25GHz
 Detector: Av mode and PK mode
 Modulation type: GFSK(LE)

2.2.5 Band Edge Compliance

2.2.5.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.1kPa

2.2.5.2 Test Description

The measurement is made according to ANSI C63.10-2009.

2.2.5.2.1 RF Conducted Measurement:

The Equipment Under Test (EUT) was set up in a shielded room to perform the spurious emissions measurements.

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss.

For the first measurement the EUT is set to transmit on the lowest channel (2402 MHz). The lower band edge is 2390 MHz.

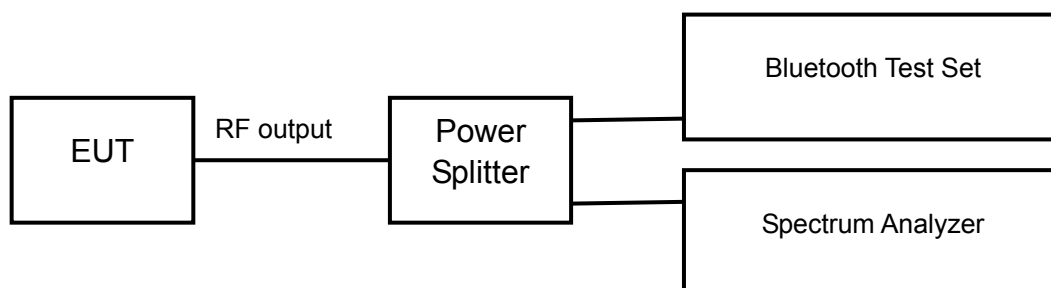
Analyzer settings:

- Detector: Peak
- RBW= 100 kHz
- VBW= 300 kHz

For the second measurement the EUT is set to transmit on the highest channel (2480MHz). The higher band edge is 2483.5 MHz.

Analyzer settings:

- Detector: Peak
- RBW= 100 kHz
- VBW= 300 kHz



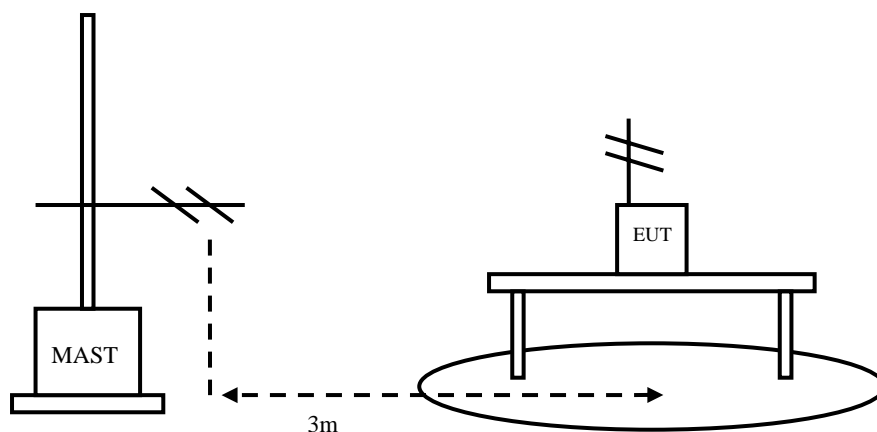
2.2.5.2.2 RF Radiated Measurement

The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna.

The radiated emissions measurements were made in a typical installation configuration.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The results (reference to 2.2.6.5) shall be showed the worst case of the three orthogonal axes.

The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.



2.2.5.3 Test limit

FCC Part15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

2.2.5.4 Test result

RF Conducted Measurement

Carrier frequency (MHz): 2402

Channel No.:0

Modulation type: GFSK(LE)

Frequency MHz	Hopping Mode	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2390	Hopping OFF	-64.01	-3.66	-23.66	60.35

Carrier frequency (MHz): 2480

Channel No.:39

Modulation type: GFSK(LE)

Frequency MHz	Hopping Mode	Measured value dBm	Reference value dBm	Limit dBm	Delta dB
2483.5	Hopping OFF	-61.18	-2.91	-22.91	58.27

RF Radiated Measurement

Carrier frequency (MHz): 2402

Channel No.:0

Modulation type: GFSK(LE)

Frequency MHz	Hopping Mode	Correction Factor dB/m	Reading Level dBuV	Emission Level dBuV/m	Detector
2402	Hopping OFF	2.70	80.72	83.42	Peak

Carrier frequency (MHz): 2480

Channel No.:39

Modulation type: GFSK(LE)

Frequency MHz	Hopping Mode	Correction Factor dB/m	Reading Level dBuV	Emission Level dBuV/m	Detector
2480	Hopping OFF	2.50	80.78	83.28	Peak

Band Edge Test Data

Carrier frequency (MHz): 2402

Channel No.:0

Modulation type: GFSK(LE)

Frequency MHz	Hopping Mode	Fundamental (dBuV/m)	Delta dB	Band Edge Field Strength (dBuV/m)	Detector
2390	Hopping OFF	83.42	60.35	23.07	Peak

Carrier frequency (MHz): 2480

Channel No.:39

Modulation type: GFSK(LE)

Frequency MHz	Hopping Mode	Fundamental (dBuV/m)	Delta dB	Band Edge Field Strength (dBuV/m)	Detector
2483.5	Hopping OFF	83.28	58.27	25.01	Peak

Note:

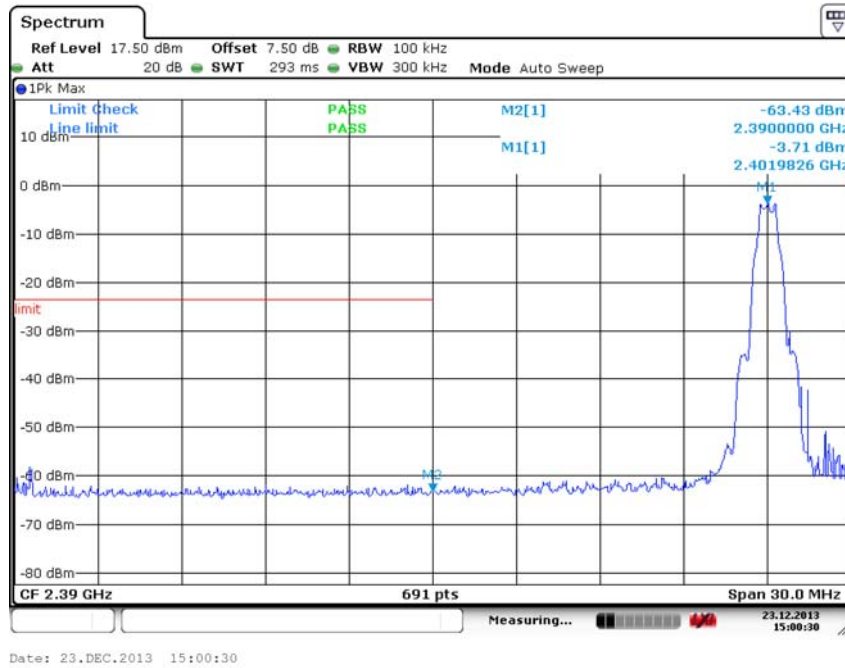
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge

measurements per the Marker-Delta Method with the following formula:

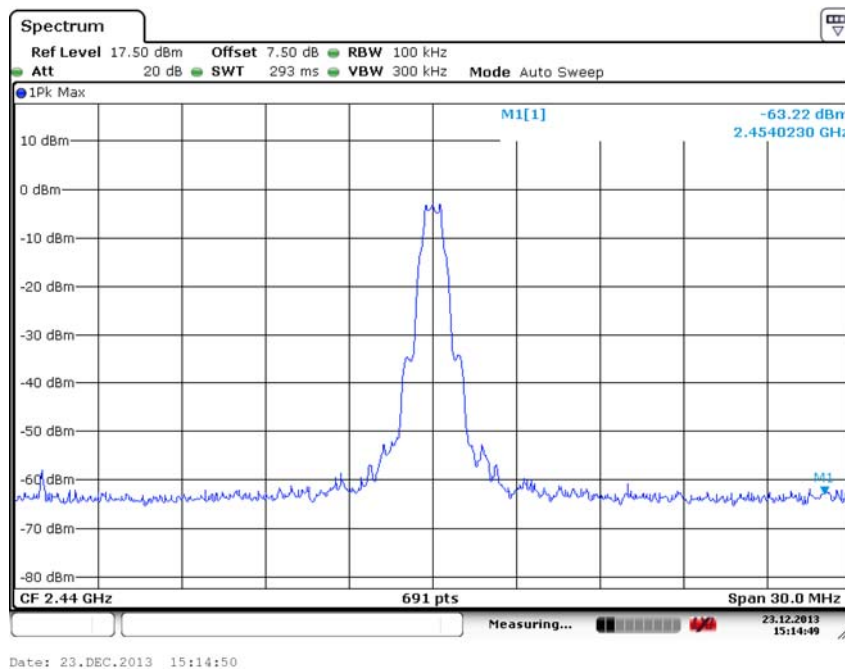
Band Edge field Strength = F - Delta

F = Fundamental field Strength (Peak or Average)

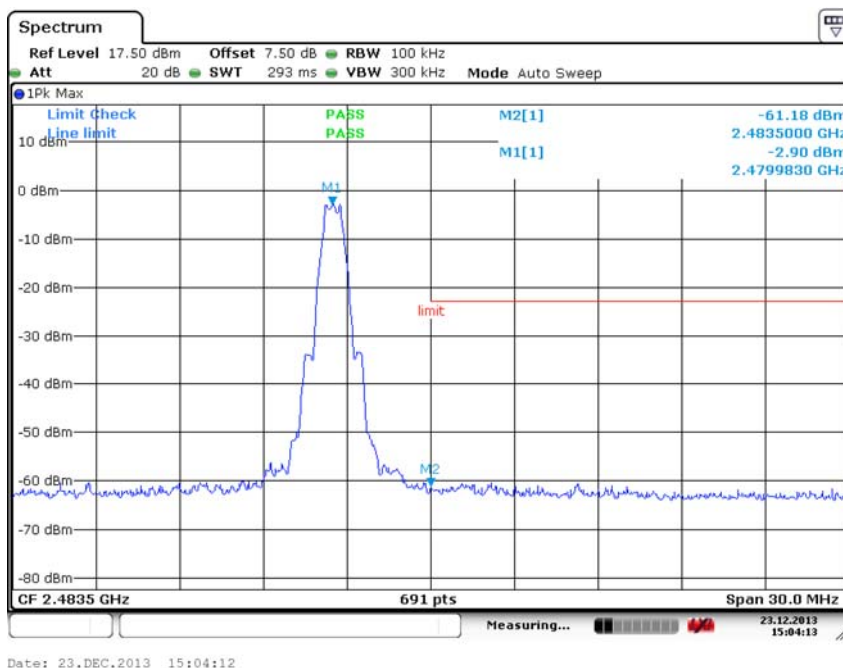
Delta= Conducted Band Edge Delta (Peak or Average)



Carrier frequency (MHz): 2402
Channel No.:0, Hopping OFF
Modulation type: GFSK(LE)



Carrier frequency (MHz): 2440
Channel No.:19, Hopping OFF
Modulation type: GFSK(LE)



Carrier frequency (MHz): 2480
Channel No.:39, Hopping OFF
Modulation type: GFSK(LE)

2.2.6 Transmitter Power Spectral Density

2.2.6.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.1kPa

2.2.6.2 Test Description

The measurement is made according to ANSI C63.10-2009.

Connect the antenna port to be measured through the 20 dB pad to the spectrum analyzer input. Configure the spectrum analyzer as described below. All losses between the EUT output and the spectrum analyzer, such as attenuator value, cable losses and other offsets shall be recorded.

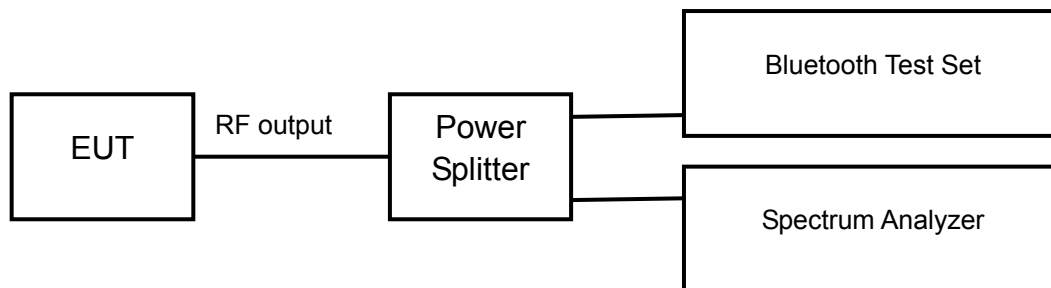
- a) Set CENTER FREQUENCY = Frequency from Power Spectral Density Test Matrix
- b) Set SPAN = 20 MHz (For devices with a nominal 40 MHz BW, 50 MHz span will be needed)
- c) Set REFERENCE LEVEL = 20 dBm
- d) Set ATTENUATION = 0 dB (add internal attenuation, if necessary)
- e) Set SWEEP TIME = Coupled
- f) Set RBW = 3 kHz
- g) Set VBW = 10 kHz
- h) Set DETECTOR = Peak
- i) Set MKR = Center Frequency
- j) Set TRACE = CLEAR WRITE

Place the radio in continuous transmit mode. Set the TRACE to MAX HOLD, and after the trace stabilizes, the TRACE to VIEW. Set the marker on the peak of the signal and then adjust the center frequency of the spectrum analyzer to the marker frequency.

After viewing the EUT waveform on the spectrum analyzer, perform the following spectrum analyzer functions to capture the trace:

- Set SPAN = 300 kHz
- Set SWEEP TIME = 100 s
- Set TRACE = MAX HOLD
- Set MKR = PEAK SEARCH

Record the marker level for the particular mode. Repeat these steps for other device modes.



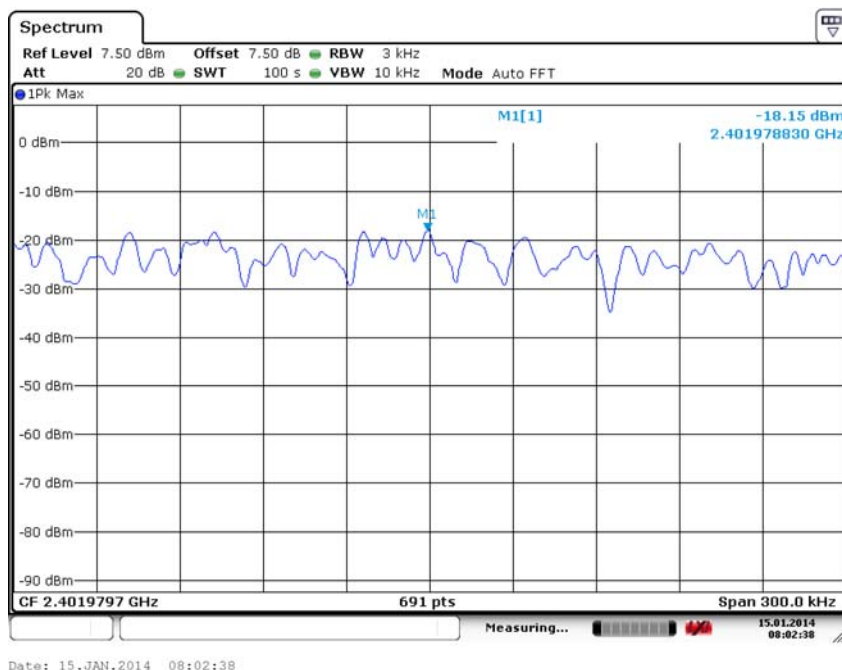
2.2.6.3 Test limit

FCC Part15.247(e)

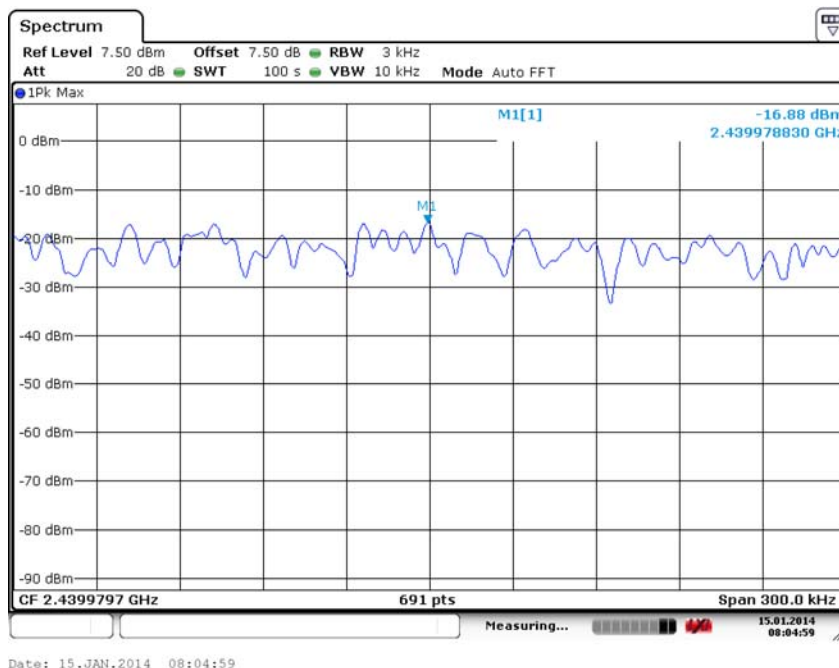
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

2.2.6.4 Test result:

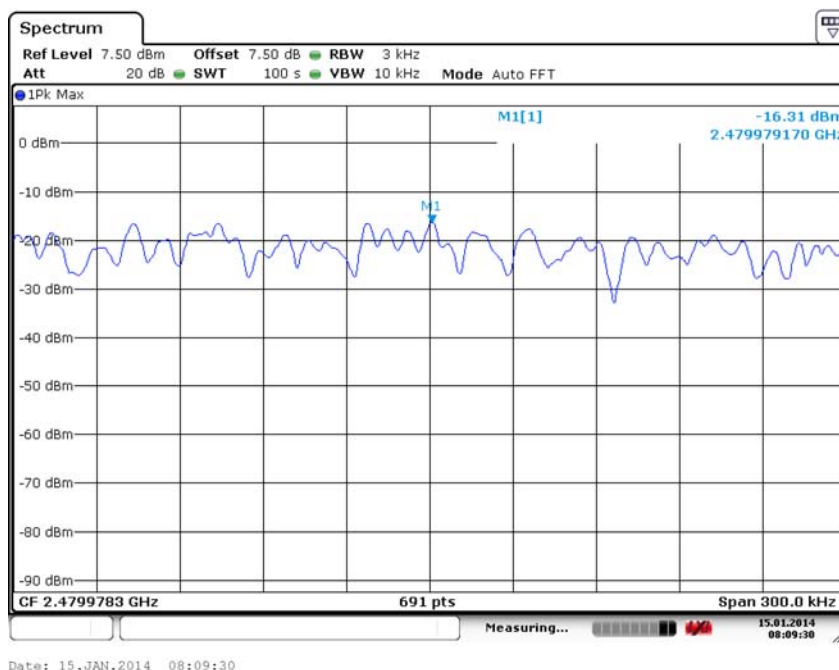
Carrier frequency (MHz)	Channel No	Power Density
2402	0	-18.15
2440	19	-16.88
2480	39	-16.31



Carrier frequency (MHz): 2402
 Channel No.:0
 Modulation type: GFSK(LE)



Carrier frequency (MHz): 2440
Channel No.:19
Modulation type: GFSK(LE)



Carrier frequency (MHz): 2480
Channel No.:39
Modulation type: GFSK(LE)

2.3. Measurement Uncertainty

Items	Uncertainty	
Occupied Bandwidth	3kHz	
Peak power output	0.67dB	
Band edge compliance	1.20dB	
Spurious emissions	30MHz~1GHz	2.83dB
	1GHz~12.75GHz	2.50dB
	12.75GHz~25GHz	2.75dB

2.4. List of test equipment

No.	Name/ Model	Manufacturer	S/N	Cal Due date
1.	Spectrum Analyzer FSV	ROHDE&SCHWARZ	101065	2014.8
2.	Signal Generator MG3700A	Anritsu	6200677084	2014.8
3.	Bluetooth Test Set MT8852B	Anritsu	1142010	2014.2
4.	Cable 104EA	SUCOFLEX	9272/4EA	2014.8
5.	Cable 104EA	SUCOFLEX	9266/4EA	2014.8
6.	Power Splitter 11850C	Agilent	026057	2014.8
7.	12.65m×8.03m×7.50m Fully-Anechoic Chamber	FRANKONIA	----	----
8.	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA	---	----
9.	Turn table Diameter:1m	HD	----	----
10.	Turn table Diameter:5m	HD	----	----
11.	Antenna master FAC(MA4.0)	MATURO	----	----
12.	Antenna master SAC(MA4.0)	MATURO	----	----
13.	9.080m×5.255m×3.525m Shielding room	FRANKONIA	----	----
14.	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	2014.8
15.	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100029	2014.8
16.	HL562 Ultra log antenna	R&S	100016	2014.8
17.	3160-09 Receive antenna	SCHWARZ-BECK	002058-002	2014.8
18.	ESI 40 EMI test receiver	R&S	100015	2014.8
19.	Radio tester	CMU 200	114667	2014.8
20.	ESCS30 EMI test receiver	R&S	100029	2014.8
21.	HL562 Receive antenna	R&S	100167	2014.8
22.	ESH3-Z5 LISN	R&S	100020	2014.8

Appendix

Appendix1 Test Setup