FCC PART 15C
TEST REPORT
No. I14N01249-BLE

for

Shenzhen Sang Fei Consumer Communications Co., Ltd.

WCDMA digital mobile phone

Model Name: Philips V387

FCC ID: VQRCTV387

with

Hardware Version: V387_V01

Software Version: Philips_V387_V01

Issued Date: 2015-01-23

STTNG
CNAS L0570

Test Laboratory:

FCC 2.948 Listed: No.342690

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT

No.52, HuayuanNorth Road, Haidian District, Beijing, P. R. China 100191.

Tel:+86(0)10-62304633, Fax:+86(0)10-62304633Email:cttl@chinattl.com, website:www.chinattl.com

©Copyright. All rights reserved by CTTL.

REPORT HISTORY

Report Number	Revision	Description	Issue Date
I14N01249-BLE	Rev.0	1st edition	2015-01-23

©Copyright. All rights reserved by CTTL.

CONTENTS

©Copyright. All rights reserved by CTTL.

©Copyright. All rights reserved by CTTL.

1. Test Laboratory

1.1. Testing Location

Location : CTTL(South Branch)

Address: No.12, ShangSha Innovation and Technology Park, Futian District, Shenzhen, Guangdong, P. R. China 518048

1.2. Testing Environment

Normal Temperature:	15-35℃
Extreme Temperature:	-20/+55℃
Relative Humidity:	20-75%

1.3. Project data

Testing Start Date:	2014-10-29
Testing End Date:	2014-11-13

1.4. Signature

Wang Shuai
(Prepared this test report)

Tang Weisheng
(Reviewed this test report)

Zhang Bojun
(Approved this test report)

©Copyright. All rights reserved by CTTL.

2. Client Information

2.1. Applicant Information

Company Name:	Shenzhen Sang Fei Consumer Communications Co., Ltd.
Address:	11 Science and Technology Road, Shenzhen Hi-tech Industrial Park Nanshan District, Shenzhen, PRC
City:	Shenzhen
Postal Code:	/
Country:	China
Telephone:	0755-26633217
Fax:	0755-26635272

2.2. Manufacturer Information

Company Name:	Shenzhen Sang Fei Consumer Communications Co., Ltd.
Address:	11 Science and Technology Road, Shenzhen Hi-tech Industrial Park Nanshan District, Shenzhen, PRC
City:	Shenzhen
Postal Code:	/
Country:	China
Telephone:	0755-26633217
Fax:	0755-26635272

©Copyright. All rights reserved by CTTL.

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	WCDMA digital mobile phone
Model Name	Philips V387
Market Name	PHILIPS
Frequency Band	2402MHz~2480MHz
Type of Modulation	GFSK
Number of Channels	40
FCC ID	VQRCTV387

Note: Photographs of EUT are shown in ANNEX A of this test report.

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version
EUT1	/	V387_V01	Philips_V387_V01

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE

AE ID*	Description	Type	SN
AE1	Charger	A68-502000	/
AE2	Battery	AB4400AWMC	/

*AE ID: is used to identify the test sample in the lab internally.

©Copyright. All rights reserved by CTTL.

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.	Oct, 2013 Edition
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2003
KDB558074	Measurement of Digital Transmission Systems Operating under Section 15.247	Jun, 2014

©Copyright. All rights reserved by CTTL.

5. Test Results

5.1. Summary of Test Results

No	Test cases	Standard Sub-clause	Verdict
0	Antenna Requirement	15.203	**P**
1	Maximum Peak Output Power	15.247 (b)	**P**
2	Peak Power Spectral Density	15.247 (e)	**P**
3	Occupied 6dB Bandwidth	15.247 (a)	**P**
4	Band Edges Compliance	15.247 (d)	**P**
5	Transmitter Spurious Emission - Conducted	15.247 (d)	**P**
6	Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	**P**
7	AC Powerline Conducted Emission	15.107, 15.207	**P**

See **ANNEX B and ANNEX C** for details.

5.2. Statements

CTTL has evaluated the test cases requested by the applicant/manufacturer as listed in section 5.1 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2

5.3. Terms used in the result table

Terms used in Verdict column

P	Pass
NA	Not Available
F	Fail

Abbreviations

AC	Alternating Current
AFH	Adaptive Frequency Hopping
BW	Band Width
E.I.R.P.	equivalent isotropical radiated power
ISM	Industrial, Scientific and Medical
R&TTE	Radio and Telecommunications Terminal Equipment
RF	Radio Frequency
Tx	Transmitter

©Copyright. All rights reserved by CTTL.

5.4. Laboratory Environment

Half-anechoic chamber (11.20 meters×6.10 meters×5.60 meters) did not exceed following limits:

Temperature	Min. = 15 ℃, Max. = 30 ℃
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2M
Ground system resistance	< 0.5
Normalized Site Attenuation (NSA)	< ±3.5dB, with 3m of Measuring distance, 30MHz 1000MHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Fully-anechoic chamber (11.20 meters×6.10 meters×6.60 meters) did not exceed following limits:

Temperature	Min. = 15 ℃, Max. = 30 ℃
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2M
Ground system resistance	< 0.5
VSWR	Between 0 and 6 dB, from 30MHz to 18 000 MHz

Conduction Lab did not exceed following limits:

Temperature	Min.=15 ℃, Max.=30 ℃
Relative humidity	Min.=30 %, Max.= 60 %
Shielding effectiveness	> 80 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 0.5 Ω

©Copyright. All rights reserved by CTTL.

6. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2015-04-22	1 year

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Chamber	FACT5-2.0	4166	ETS-Lindgren	2016-05-29	3 years
2	Test Receiver	ESCI	100701	Rohde & Schwarz	2015-07-30	1 year
3	Spectrum Analyzer	FSP40	100378	Rohde & Schwarz	2015-12-19	1 year
4	BiLog Antenna	VULB9163	9163-329	Schwarzbeck	2017-01-20	3 years
5	Test Receiver	ESCI	100702	Rohde & Schwarz	2015-07-30	1 year
6	LISN	ESH2-Z5	100196	Rohde & Schwarz	2015-01-14	1 year
7	Signal Generator	SMR40	100541	Rohde & Schwarz	2015-12-25	1 year
8	Dual-Ridge Waveguide Horn Antenna	3117	00066577	ETS-Lindgren	2016-04-01	3 years
9	Loop Antenna	HLA6120	35779	TESEQ	2016-02-25	3 years
10	EMI Antenna	3160-09	00118383	ETS-Lindgren	2015-09-05	3 years

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren.

©Copyright. All rights reserved by CTTL.

ANNEX A: EUT photograph

Pic A-1 Mobile phone

Pic A-2 Mobile phone

©Copyright. All rights reserved by CTTL.

Pic A-3 Battery

Pic A-4 Charger

©Copyright. All rights reserved by CTTL.

ANNEX B: MEASUREMENT RESULTS FOR RECEIVER

B.0 Antenna requirement

Measurement Limit:

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, § 15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Conclusion: The Directional gains of antenna used for transmitting is -3.0 dBi.
The RF transmitter uses an integrate antenna without connector.

©Copyright. All rights reserved by CTTL.

B.1 Maximum Peak Output Power

Measurement Limit and Method:

Standard	Limit (dBm)
FCC CRF Part 15.247(b)(1)	< 30

Test Condition:

Hopping Mode	RBW	VBW	SPAN	Sweeptime
Hopping off	3MHz	3MHz	10MHz	Auto

Measurement Results:

Mode	Channel	Maximum Peak Output Power（dBm）		Conclusion
GFSK	0	Fig.1	-4.98	P
	19	Fig.2	-4.76	P
	39	Fig.3	-4.72	P

See ANNEX C for test graphs.

Conclusion: Pass

B.2 Peak Power Spectral Density

Measurement Limit:

Standard	Limit
FCC CRF Part 15.247(d)	< 8 dBm/3 kHz

Measurement Results:

Mode	Channel	Peak Power Spectral Density（dBm）		Conclusion
GFSK	0	Fig.4	-21.49	P
	19	Fig.5	-21.39	P
	39	Fig.6	-21.29	P

See ANNEX C for test graphs.

Conclusion: Pass

©Copyright. All rights reserved by CTTL.

B.3 Occupied 6dB Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a)	≥ 500

Measurement Result:

Mode	Channel	Test Results (kHz)		conclusion
GFSK	0	Fig.7	701.9	P
	19	Fig.8	701.9	P
	39	Fig.9	709.1	P

See ANNEX C for test graphs.

Conclusion: Pass

B.4 Band Edges Compliance

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	> 20

Measurement Result:

Mode	Channel	Test Results	Conclusion
GFSK	0	Fig.10	P
	39	Fig.11	P

See ANNEX C for test graphs.

Conclusion: Pass

©Copyright. All rights reserved by CTTL.

B.5 Transmitter Spurious Emission

B.5.1 Transmitter Spurious Emission - Conducted

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

Measurement Results:

MODE	Channel	Frequency Range	Test Results	Conclusion
GFSK	0	2.402 GHz	Fig.12	P
		30 MHz-3 GHz	Fig.13	P
		3GHz-18GHz	Fig.14	P
	19	2.440 GHz	Fig.15	P
		30 MHz-3 GHz	Fig.16	P
		3GHz-18GHz	Fig.17	P
	39	2.480 GHz	Fig.18	P
		30 MHz-3 GHz	Fig.19	P
		3GHz-18GHz	Fig.20	P
	All channels	18GHz-26GHz	Fig.21	P

See ANNEX C for test graphs.

Conclusion: Pass

©Copyright. All rights reserved by CTTL.

B.5.2 Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output 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 in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength(μV/m)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz/300kHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Note:

According to the performance evaluation, the radiated emission margin of EUT is over 20dB in the band from 9kHz to 30MHz. Therefore, the measurement starts from 30MHz to tenth harmonic.

The measurement results include the horizontal polarization and vertical polarization measurements.

©Copyright. All rights reserved by CTTL.

Measurement Results:

Mode	Channel	Frequency Range	Test Results	Conclusion
GFSK	0	30 MHz ~1 GHz	Fig.22	P
		1 GHz ~ 18 GHz	Fig.23	P
	19	30 MHz ~1 GHz	Fig.24	P
		1 GHz ~ 18 GHz	Fig.25	P
	39	30 MHz ~1 GHz	Fig.26	P
		1 GHz ~ 18 GHz	Fig.27	P
	Power(CH0)	2.38 GHz ~ 2.45 GHz	Fig.28	P
	Power(CH78)	2.45 GHz ~ 2.5 GHz	Fig.29	P
/	All channels	18 GHz~ 26.5 GHz	Fig.30	P

GFSK CH0 (1-18GHz)

Frequency (MHz)	MaxPeak (dBµV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
14507.000	58.0	H	12.8	16.0	74.0
15125.000	58.2	V	12.8	15.8	74.0
15741.000	60.1	V	14.0	13.9	74.0
16291.000	60.0	H	14.8	14.0	74.0
16756.000	60.6	H	15.1	13.4	74.0
17898.000	60.1	H	15.8	13.9	74.0

Frequency (MHz)	Average (dBµV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
14451.000	45.3	H	13.1	8.7	54.0
15058.000	46.1	H	13.2	7.9	54.0
15764.000	47.6	H	14.1	6.4	54.0
16274.000	47.9	H	14.7	6.1	54.0
16769.000	48.6	H	15.2	5.4	54.0
17276.000	48.3	H	15.4	5.7	54.0

©Copyright. All rights reserved by CTTL.

GFSK CH19 (1-18GHz)

Frequency (MHz)	MaxPeak (dBµV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
14167.000	57.4	H	12.5	16.6	74.0
15012.000	58.7	V	13.5	15.3	74.0
15722.000	60.1	V	14.0	13.9	74.0
16524.000	59.8	V	15.3	14.2	74.0
16769.000	60.8	V	15.2	13.2	74.0
17363.000	60.6	V	15.5	13.4	74.0

Frequency (MHz)	Average (dBµV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
14527.000	45.3	H	12.7	8.7	54.0
15054.000	46.1	H	13.2	7.9	54.0
15775.000	47.6	V	14.2	6.4	54.0
16214.000	48.1	H	14.4	5.9	54.0
16804.000	48.8	H	15.4	5.2	54.0
17312.000	48.5	H	15.4	5.5	54.0

GFSK CH39 (1-18GHz)

Frequency (MHz)	MaxPeak (dBµV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
14189.000	57.1	V	12.6	16.9	74.0
14725.000	57.9	V	13.0	16.1	74.0
15749.000	59.3	H	14.1	14.7	74.0
16348.000	59.7	H	15.1	14.3	74.0
16784.000	60.6	H	15.3	13.4	74.0
17372.000	60.6	H	15.5	13.4	74.0

©Copyright. All rights reserved by CTTL.

Frequency (MHz)	Average (dBμV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
14447.000	45.1	V	13.1	8.9	54.0
15054.000	45.9	H	13.2	8.1	54.0
15771.000	47.5	H	14.1	6.5	54.0
16314.000	47.6	H	14.9	6.4	54.0
16847.000	48.4	H	15.6	5.6	54.0
17365.000	47.9	H	15.5	6.1	54.0

See ANNEX C for test graphs.

Conclusion: Pass

Note:

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.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result=P_{Mea}+$A_{Rpl=}$ P_{Mea}+Cable Loss+Antenna Factor

©Copyright. All rights reserved by CTTL.

B.6 AC Powerline Conducted Emission

Test Condition:

Voltage（V）	Frequency（Hz）
120	60

Measurement Result and limit:

BLE (Quasi-peak Limit)-AE1

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.31	Fig.32	P
0.5 to 5	56			
5 to 30	60			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

BLE (Average Limit)-AE1

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig.31	Fig.32	P
0.5 to 5	46			
5 to 30	50			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Note: The measurement results include the L1 and N measurements.

See ANNEX C for test graphs.

Conclusion: Pass

©Copyright. All rights reserved by CTTL.

ANNEX C: TEST FIGURE LIST

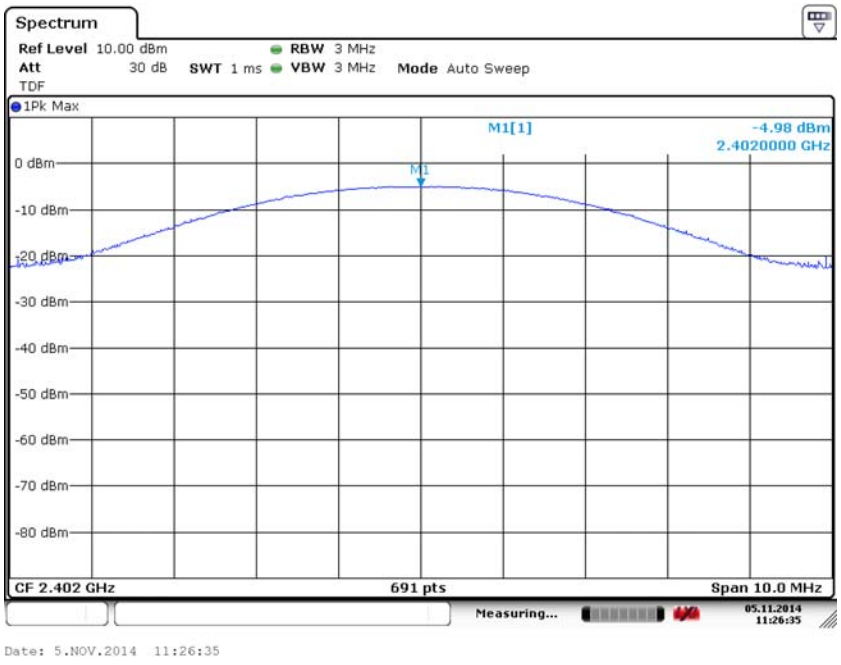

Fig. 1 Maximum Peak Output Power(GFSK, Ch 0)

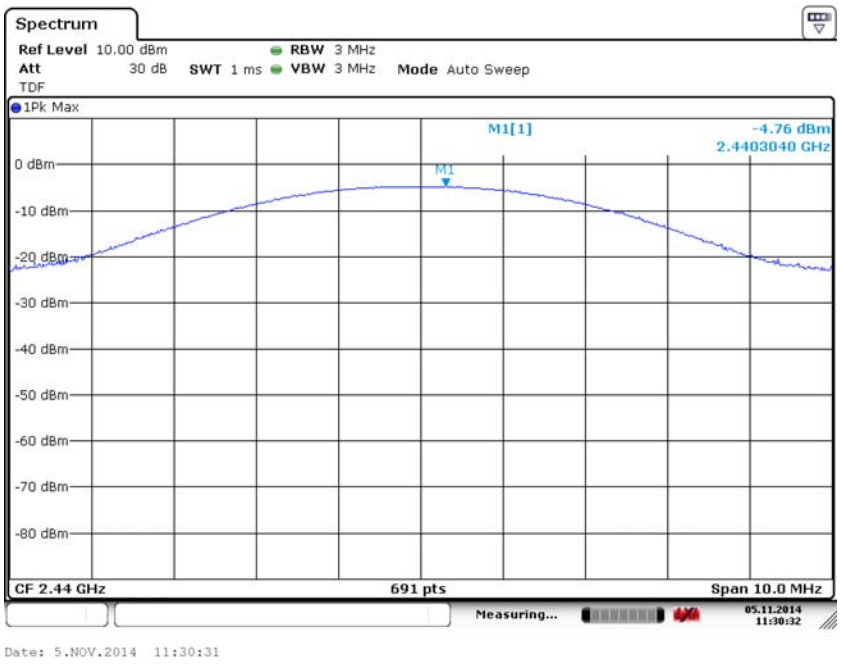

Fig. 2 Maximum Peak Output Power(GFSK, Ch 19)

©Copyright. All rights reserved by CTTL.

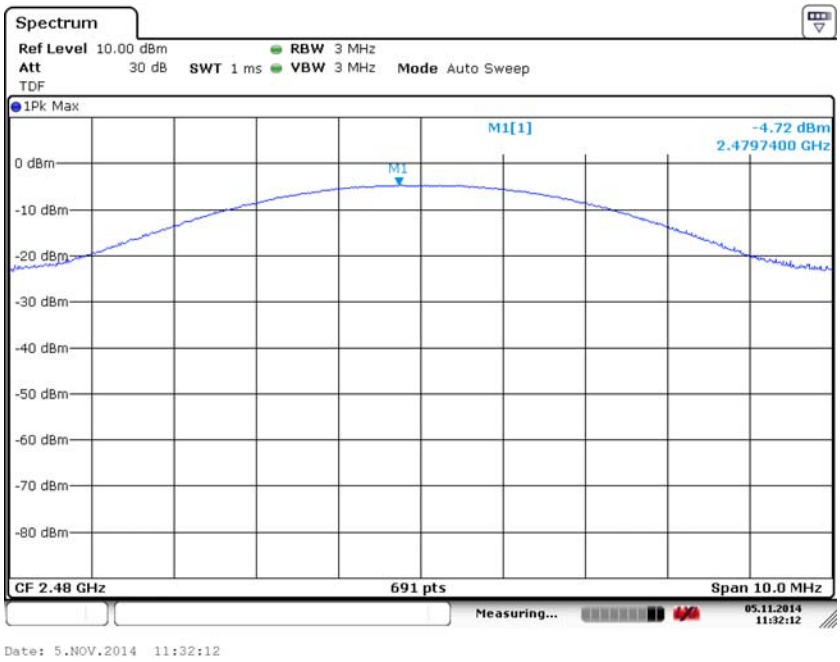

Fig. 3 Maximum Peak Output Power(GFSK, Ch 39)

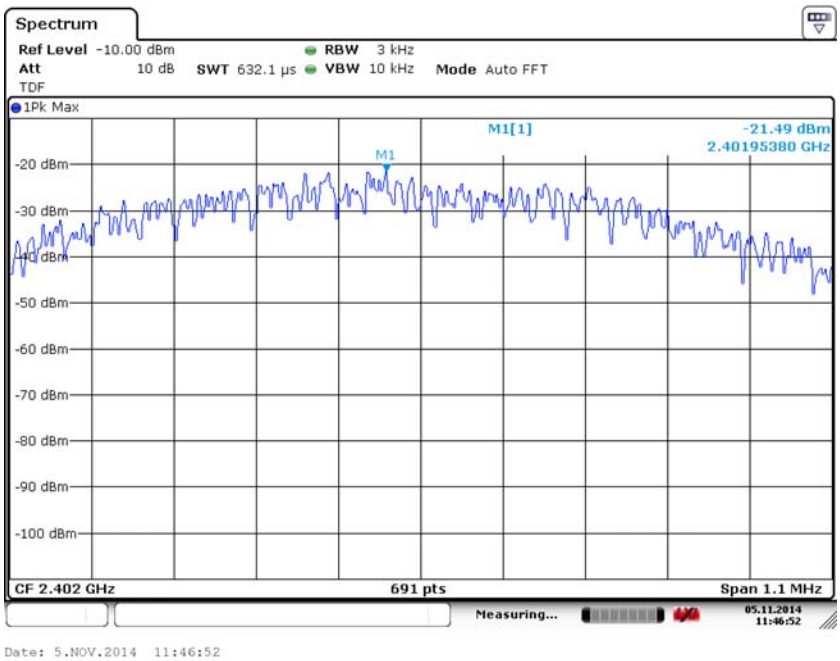

Fig. 4 Power Spectral Density (Ch 0)

©Copyright. All rights reserved by CTTL.

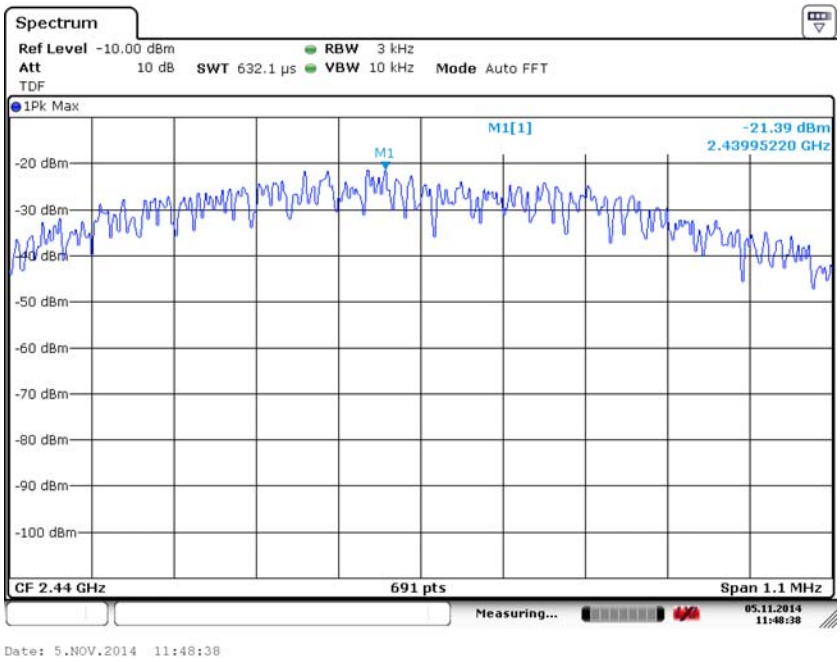

Fig. 5 Power Spectral Density (Ch 19)

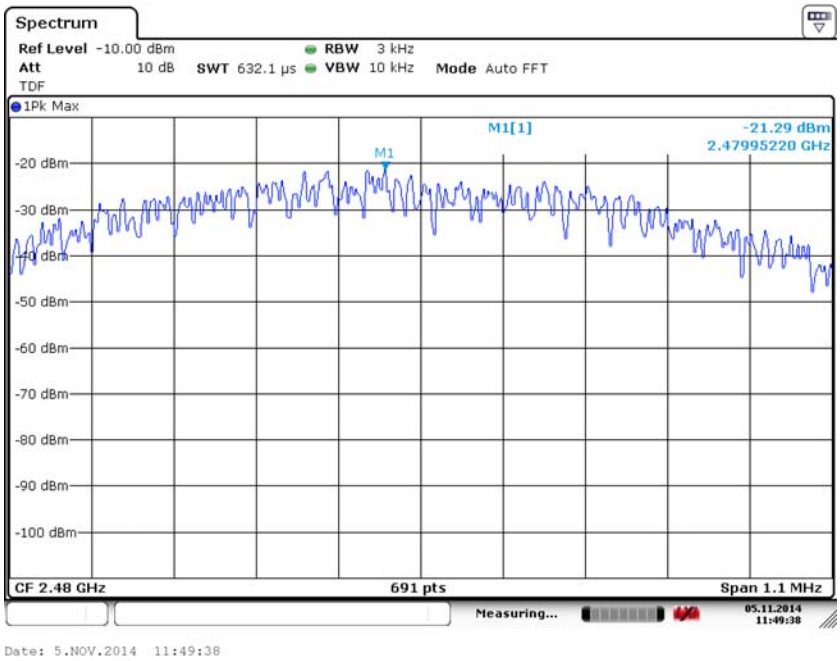

Fig. 6 Power Spectral Density (Ch 39)

©Copyright. All rights reserved by CTTL.

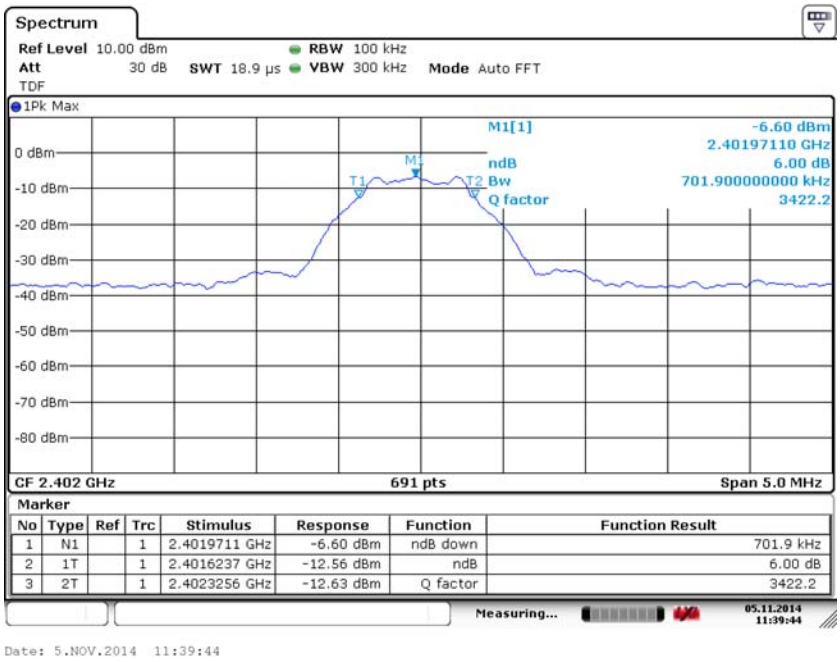

Fig. 7 Occupied 6dB Bandwidth (Ch 0)

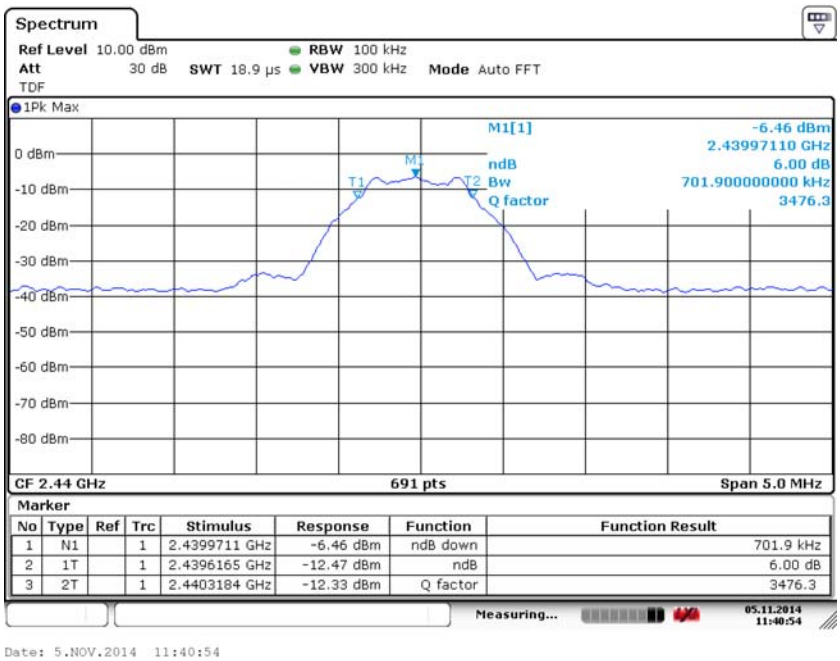

Fig. 8 Occupied 6dB Bandwidth (Ch 19)

©Copyright. All rights reserved by CTTL.

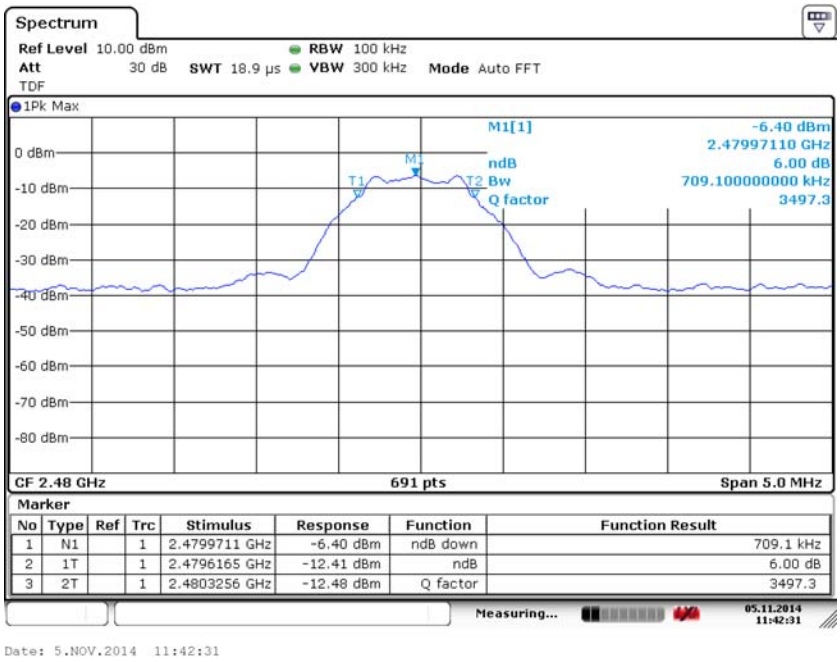

Fig. 9 Occupied 6dB Bandwidth (Ch 39)

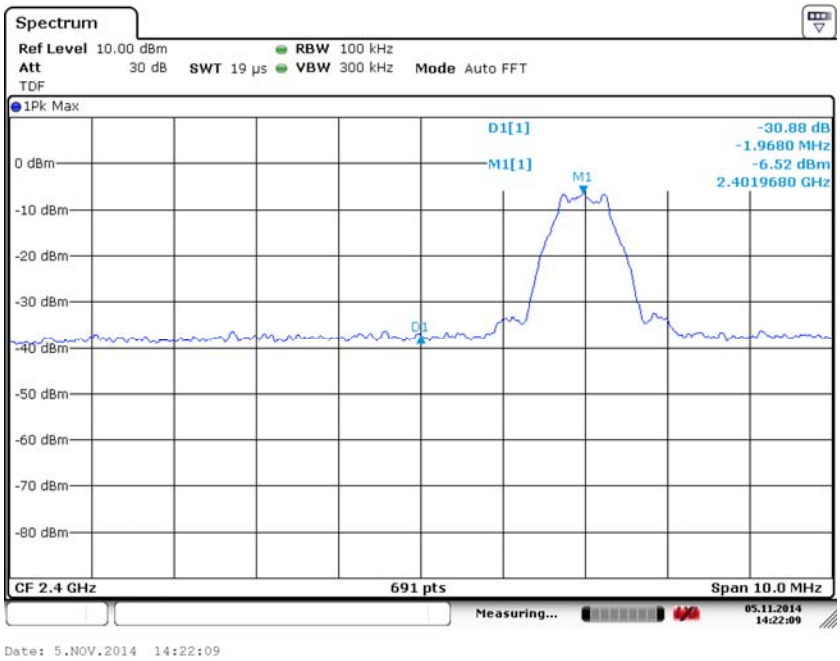

Fig. 10 Band Edges (Ch 0)

©Copyright. All rights reserved by CTTL.

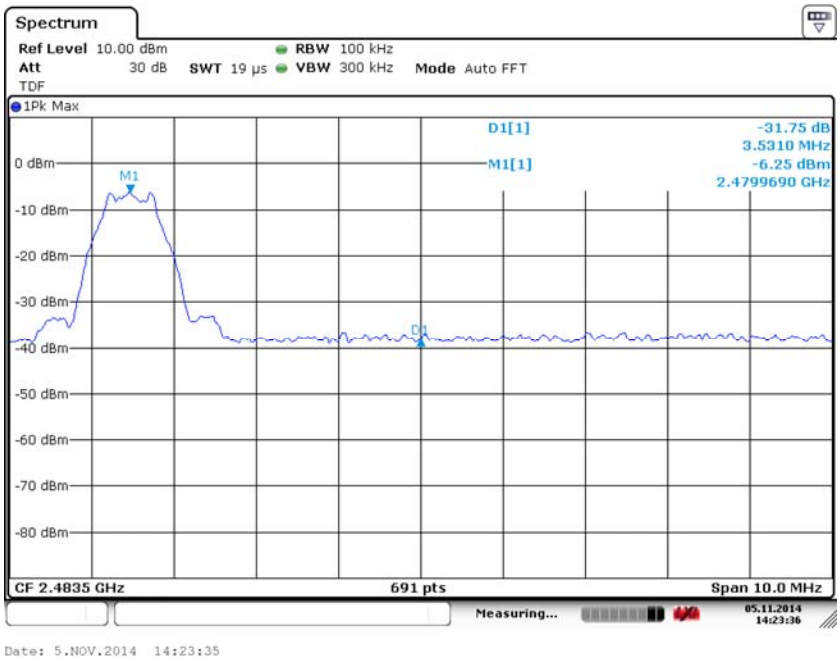

Fig. 11 Band Edges (Ch 39)

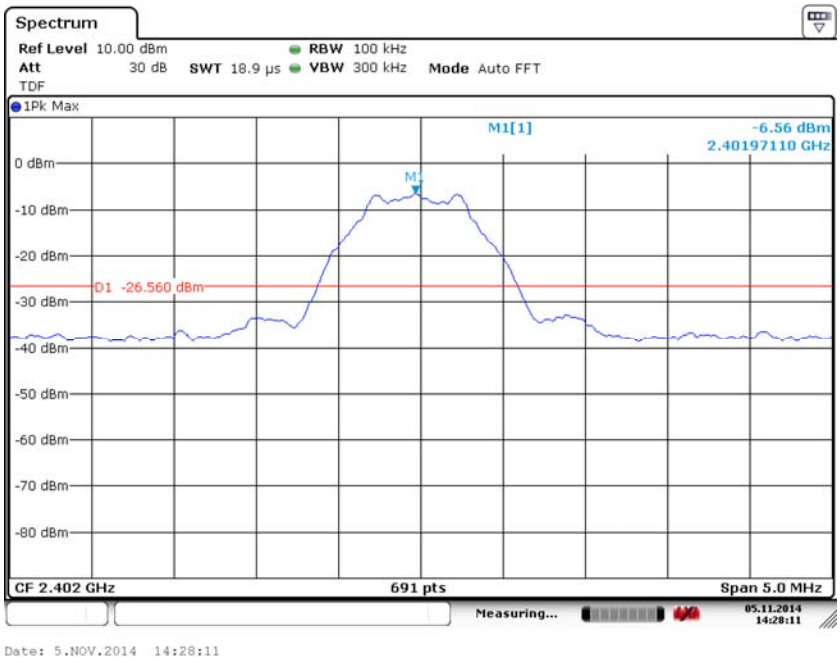

Fig. 12 Conducted Spurious Emission (Ch0, Center Frequency)

©Copyright. All rights reserved by CTTL.

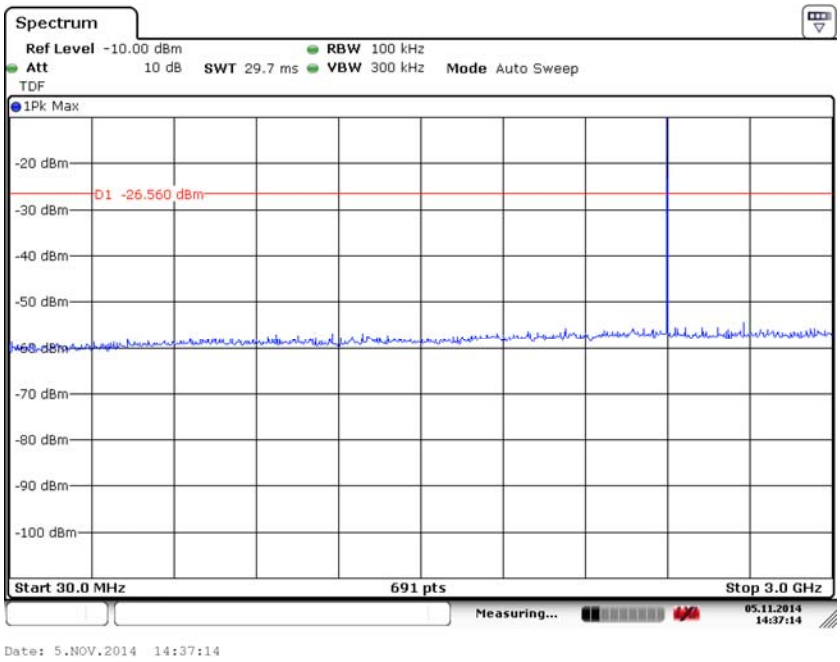

Fig. 13 Conducted Spurious Emission (Ch0, 30 MHz-1 GHz)

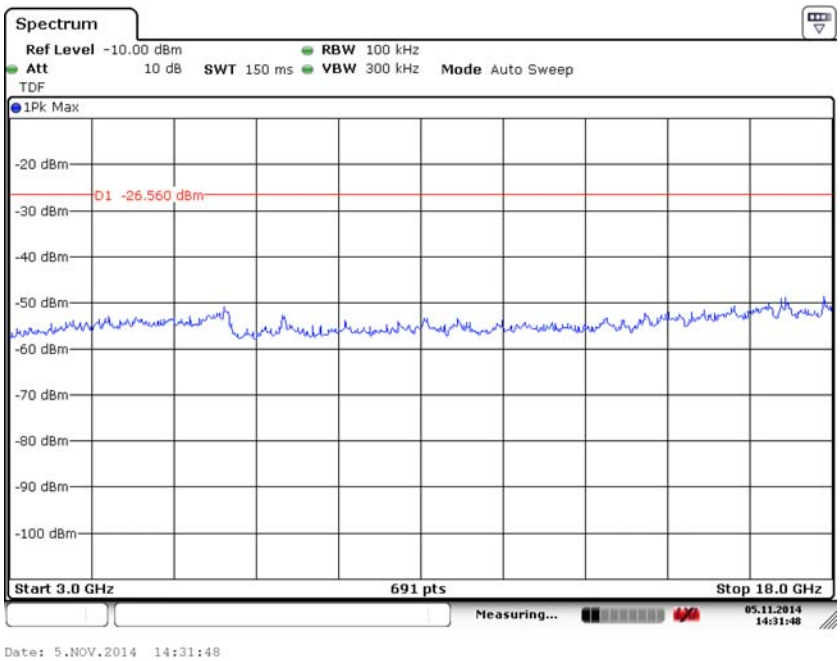

Fig. 14 Conducted Spurious Emission (Ch0, 1 GHz-18 GHz)

©Copyright. All rights reserved by CTTL.

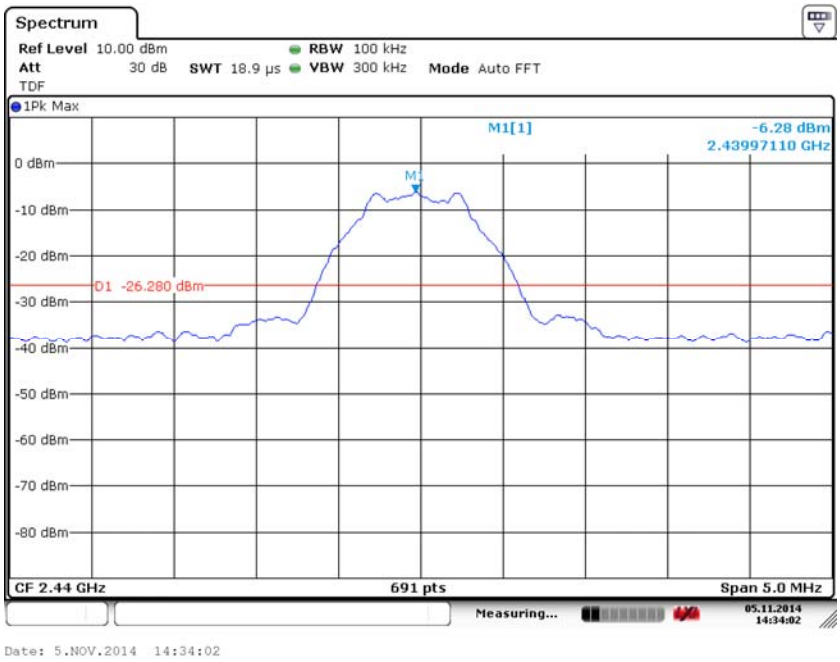

Fig. 15 Conducted Spurious Emission (Ch19, Center Frequency)

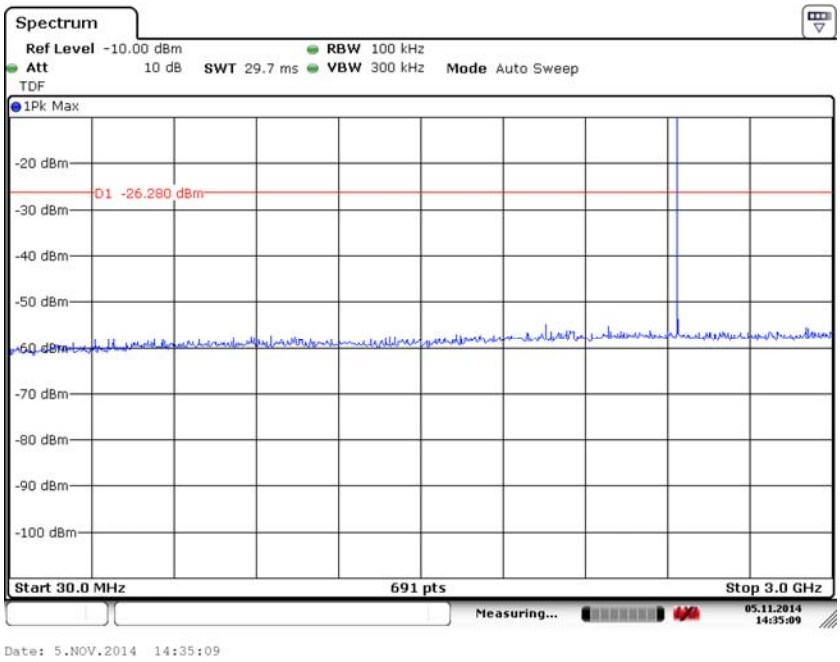

Fig. 16 Conducted Spurious Emission (Ch19, 30 MHz-1 GHz)

©Copyright. All rights reserved by CTTL.

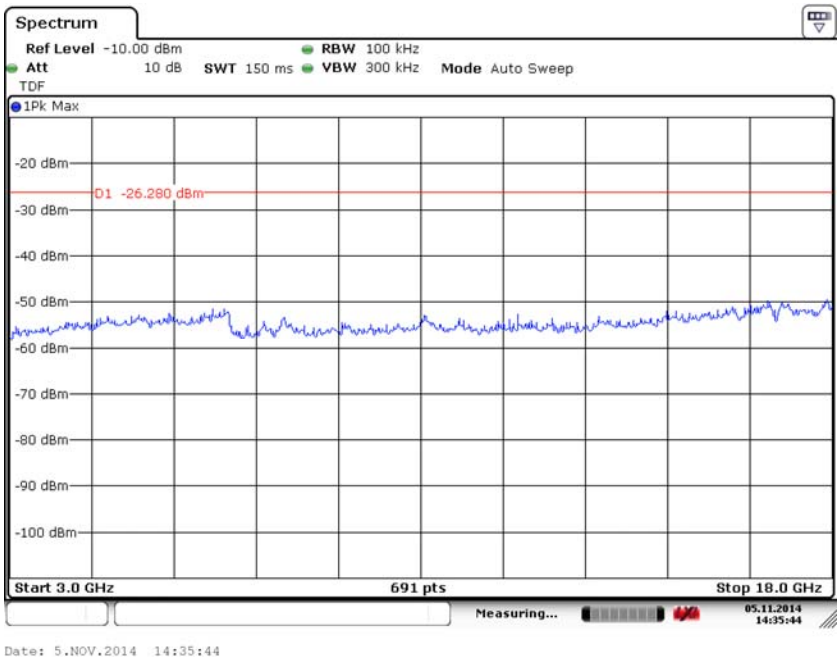

Fig. 17 Conducted Spurious Emission (Ch19, 1 GHz-18 GHz)

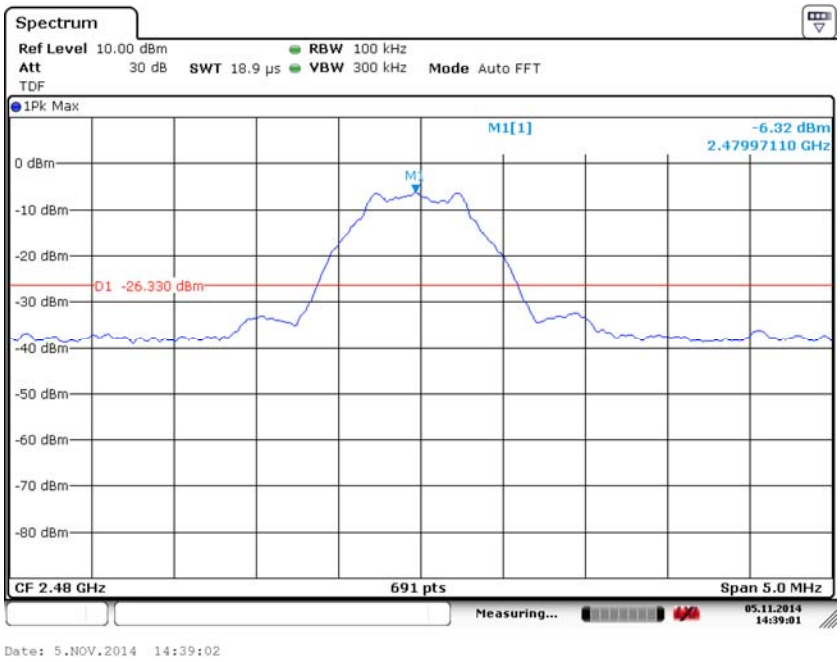

Fig. 18 Conducted Spurious Emission (Ch39, Center Frequency)

©Copyright. All rights reserved by CTTL.

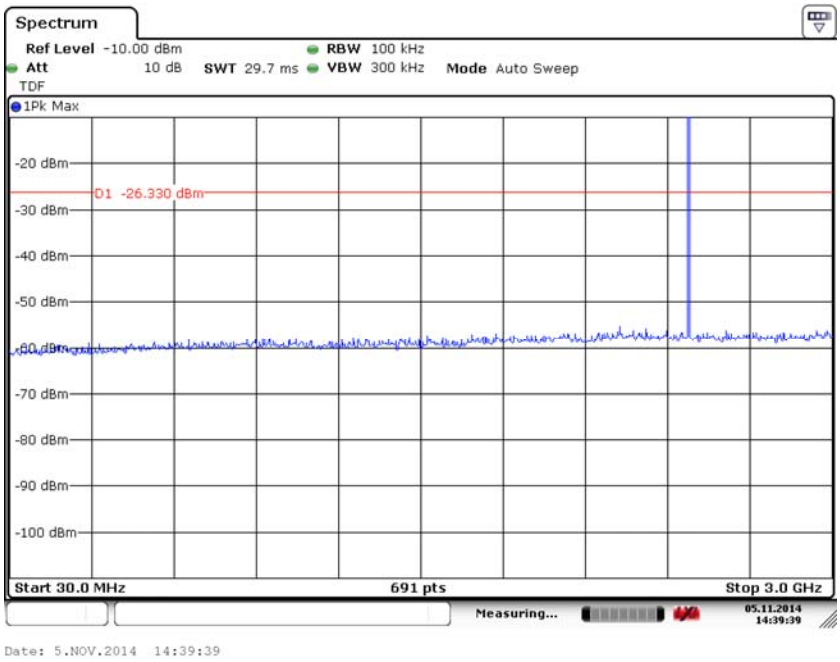

Fig. 19 Conducted Spurious Emission (Ch39, 30 MHz-1 GHz)

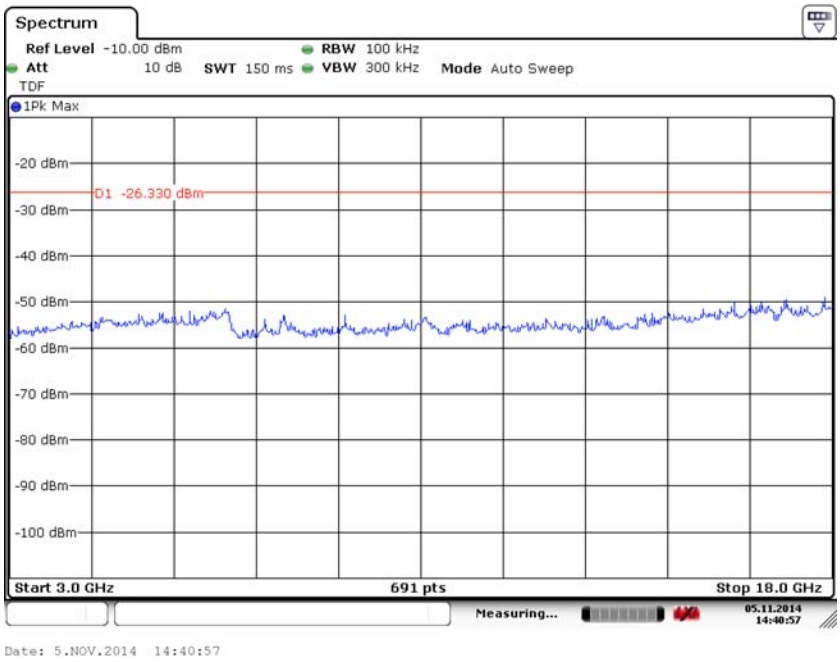

Fig. 20 Conducted Spurious Emission (Ch39, 1 GHz-18 GHz)

©Copyright. All rights reserved by CTTL.

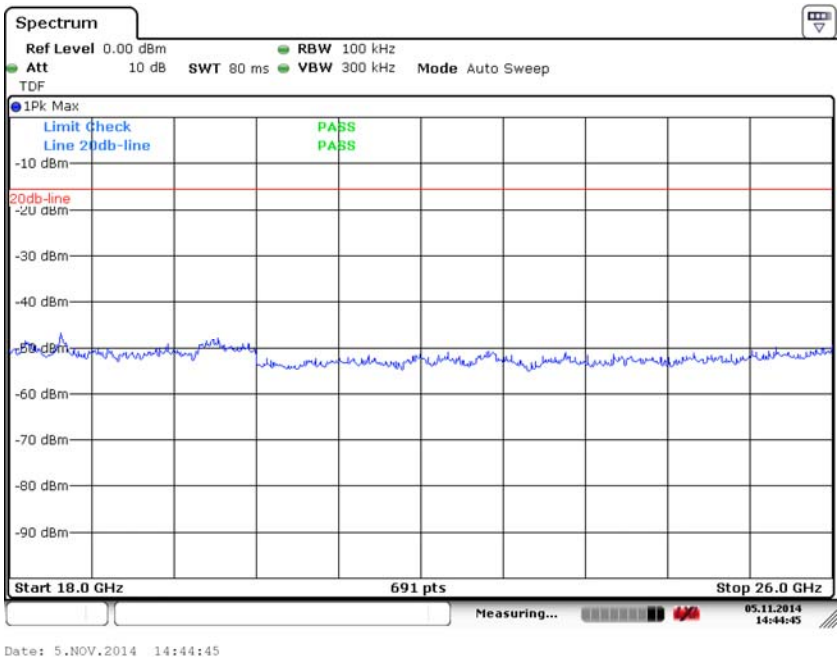

Fig. 21 Conducted Spurious Emission (All channels, 18 GHz-26 GHz)

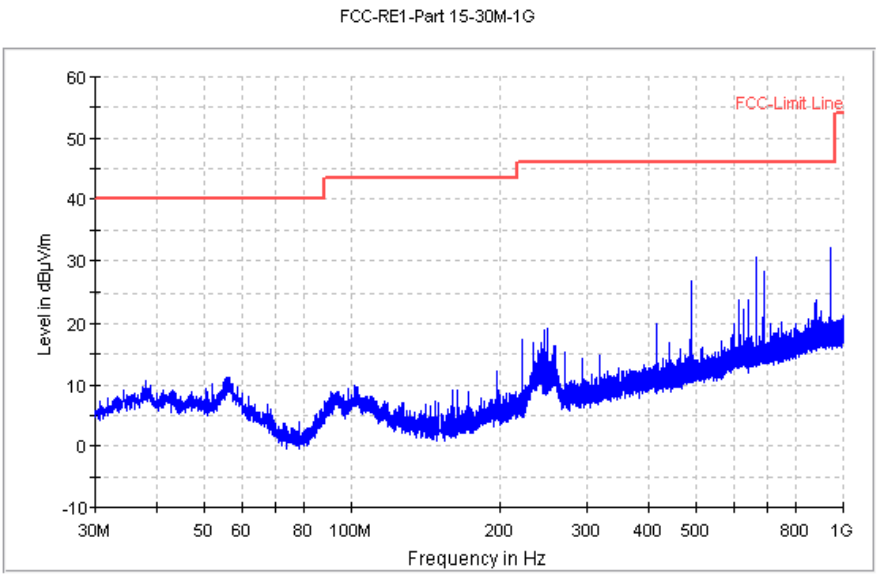

Fig. 22 Radiated Spurious Emission (Ch0, 30 MHz-1 GHz)

©Copyright. All rights reserved by CTTL.

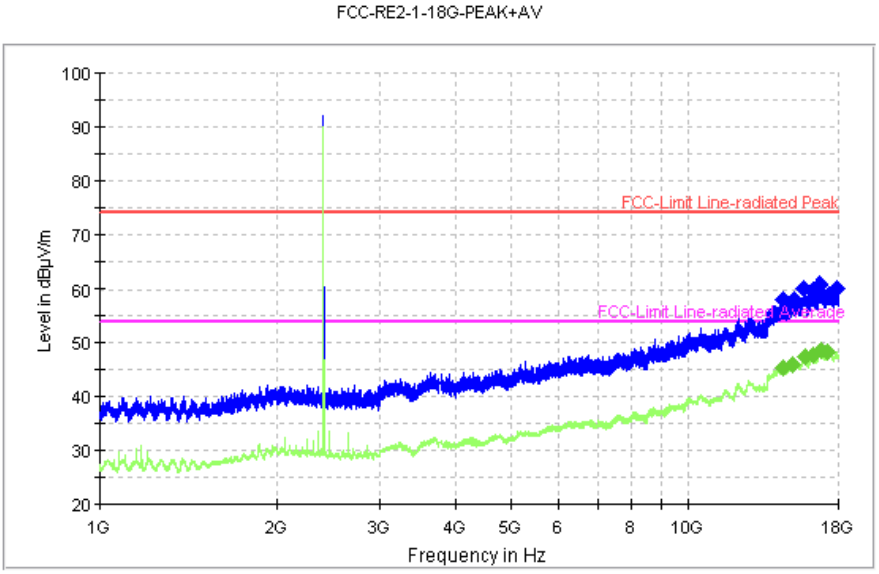

Fig. 23 Radiated Spurious Emission (Ch0, 1 GHz-18 GHz)

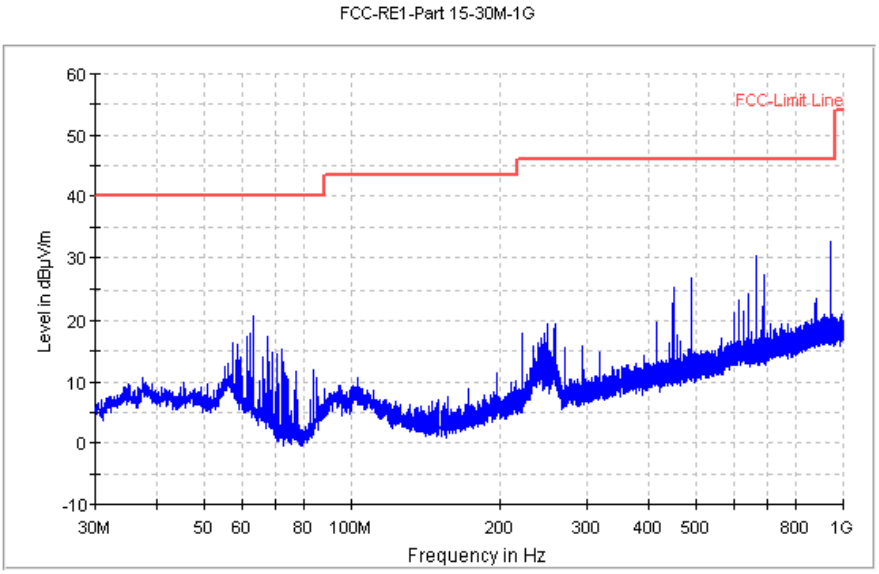

Fig. 24 Radiated Spurious Emission (Ch19, 30 MHz-1 GHz)

©Copyright. All rights reserved by CTTL.

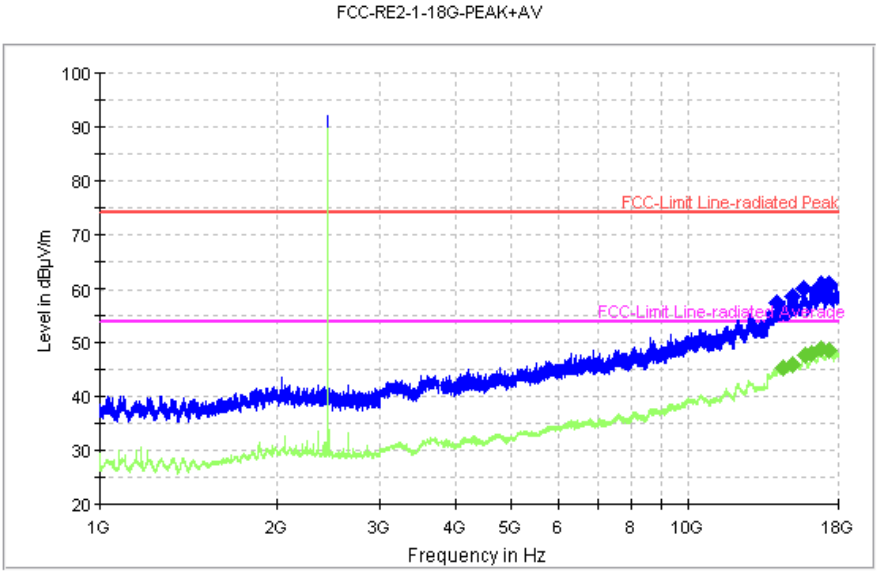

Fig. 25 Radiated Spurious Emission (Ch19, 1 GHz-18 GHz)

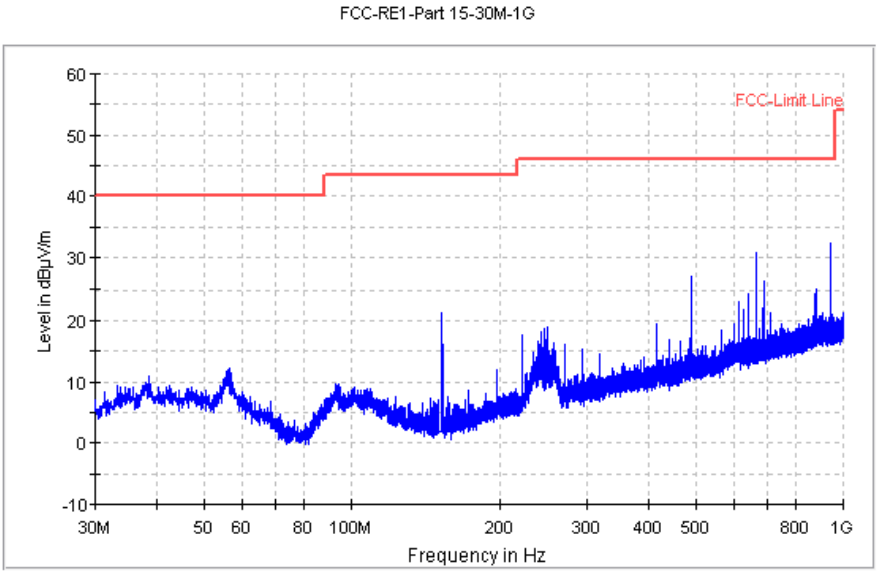

Fig. 26 Radiated Spurious Emission (Ch39, 30 MHz-1 GHz)

©Copyright. All rights reserved by CTTL.

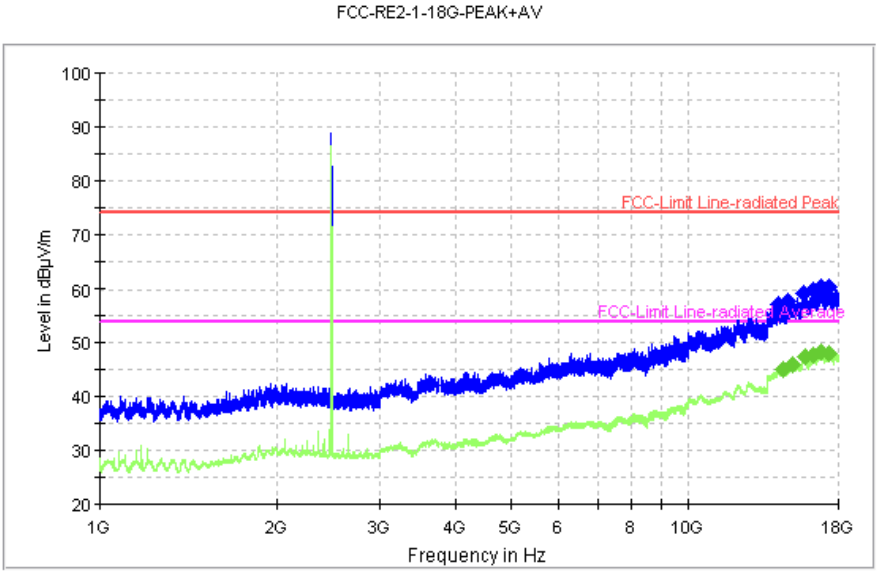

Fig. 27 Radiated Spurious Emission (Ch39, 1 GHz-18 GHz)

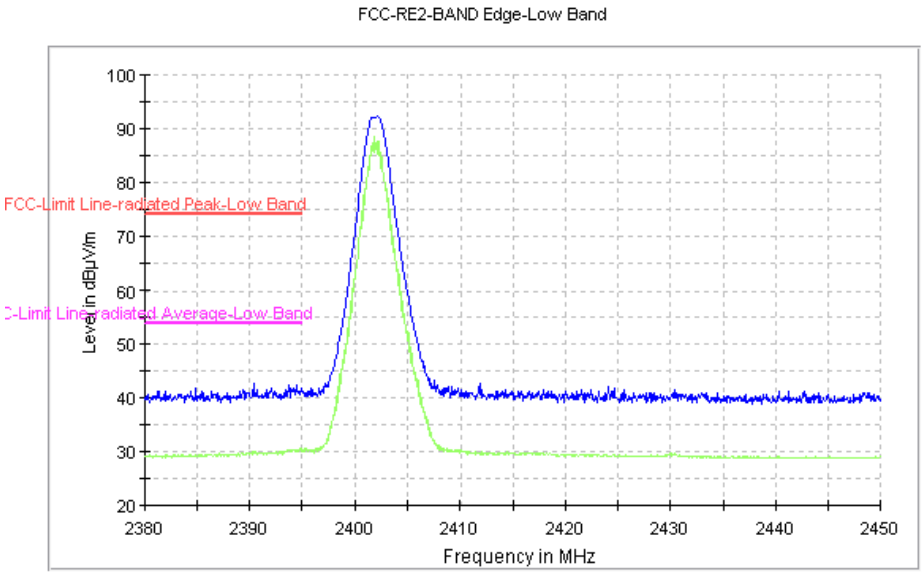

Fig. 28 Radiated Emission Power (GFSK, Ch0, 2380GHz~2450GHz)

©Copyright. All rights reserved by CTTL.

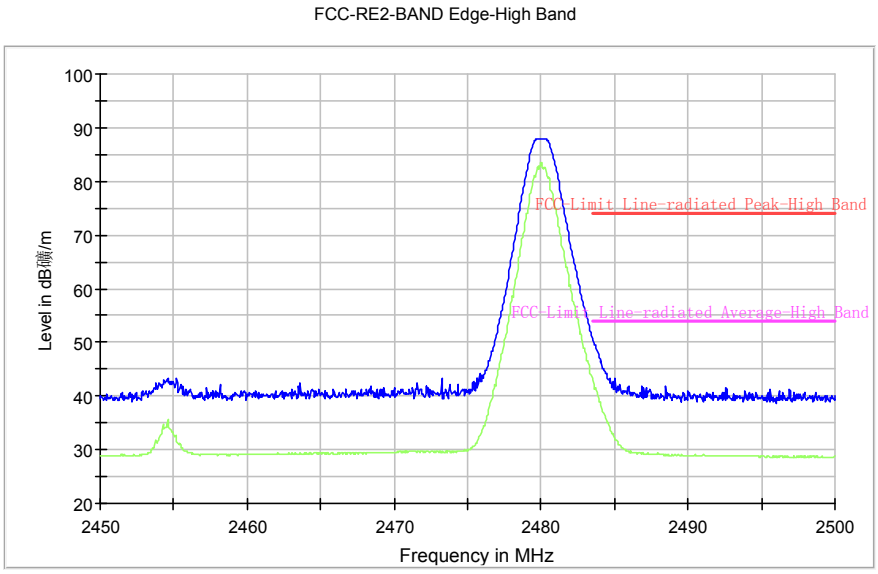

Fig. 29 Radiated Emission Power (GFSK, Ch39, 2450GHz~2500GHz)

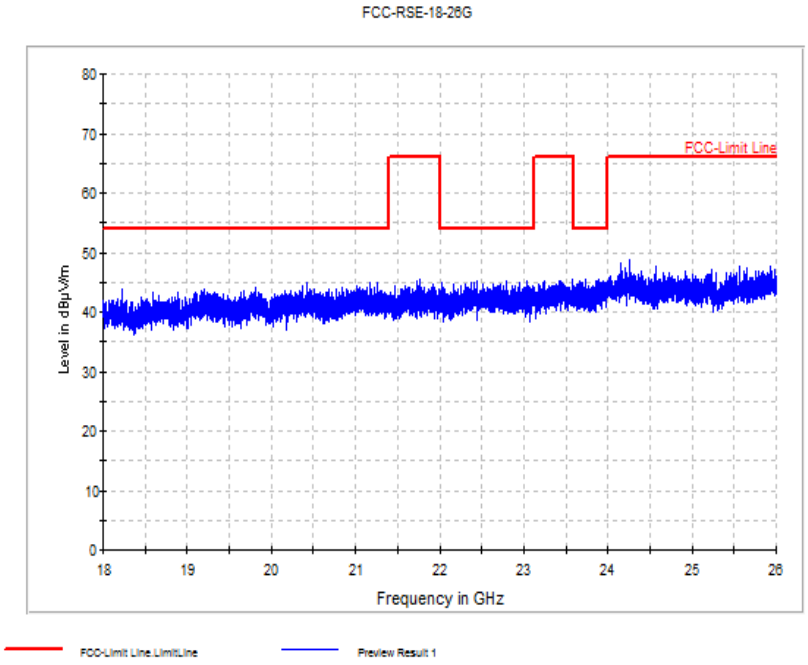

Fig. 30 Radiated emission: 18 GHz - 26 GHz

©Copyright. All rights reserved by CTTL.

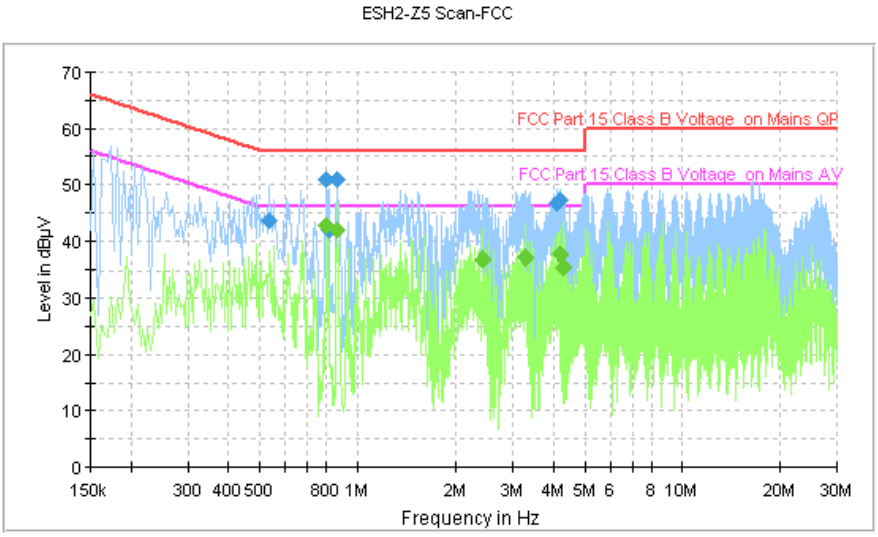

Fig. 31 AC Powerline Conducted Emission (Traffic, AE1)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.534000	43.5	FLO	L1	10.1	12.5	56.0
0.802000	50.9	FLO	L1	10.1	5.1	56.0
0.818000	41.8	FLO	L1	10.0	14.2	56.0
0.866000	51.0	FLO	L1	10.1	5.0	56.0
4.082000	46.6	FLO	L1	10.2	9.4	56.0
4.210000	47.3	FLO	L1	10.2	8.7	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.802000	42.6	FLO	L1	10.1	3.4	46.0
0.866000	41.9	FLO	L1	10.1	4.1	46.0
2.414000	36.8	FLO	L1	10.1	9.2	46.0
3.278000	37.2	FLO	L1	10.2	8.8	46.0
4.210000	37.7	FLO	L1	10.2	8.3	46.0
4.278000	35.5	FLO	L1	10.2	10.5	46.0

©Copyright. All rights reserved by CTTL.

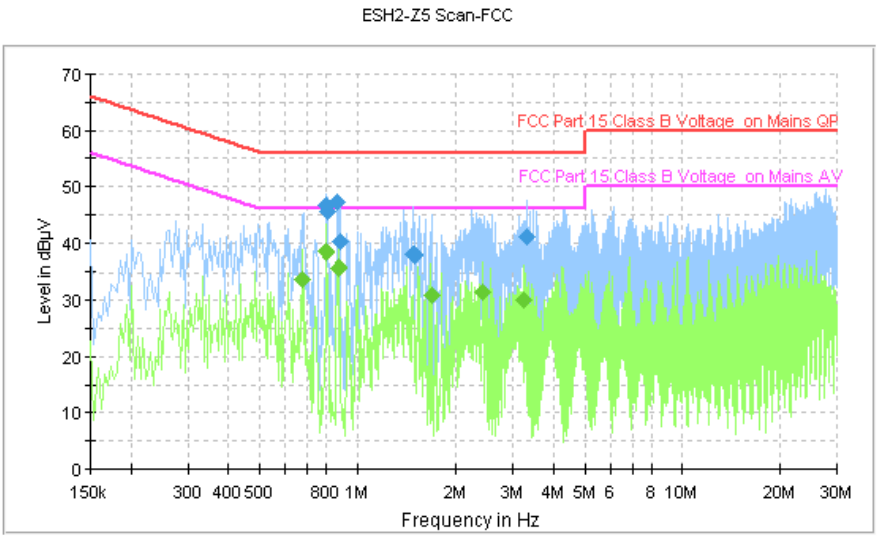

Fig. 32 AC Power line Conducted Emission (Idle, AE1)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.806000	46.6	FLO	L1	10.1	9.4	56.0
0.814000	45.5	FLO	N	10.1	10.5	56.0
0.870000	47.2	FLO	L1	10.1	8.8	56.0
0.886000	40.1	FLO	N	10.1	15.9	56.0
1.494000	38.1	FLO	N	10.1	17.9	56.0
3.322000	41.2	FLO	N	10.2	14.8	56.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.674000	33.7	FLO	L1	10.0	12.3	46.0
0.806000	38.4	FLO	L1	10.1	7.6	46.0
0.874000	35.8	FLO	L1	10.1	10.2	46.0
1.678000	30.9	FLO	L1	10.1	15.1	46.0
2.418000	31.4	FLO	L1	10.1	14.6	46.0
3.226000	30.0	FLO	L1	10.2	16.0	46.0

©Copyright. All rights reserved by CTTL.

ANNEX D: Persons involved in this testing

Test Name	Tester
Antenna Requirement	Wang Shuai, Tang Weisheng
Maximum Peak Output Power	Wang Shuai, Tang Weisheng
Peak Power Spectral Density	Wang Shuai, Tang Weisheng
Occupied 6dB Bandwidth	Wang Shuai, Tang Weisheng
Band Edges Compliance	Wang Shuai, Tang Weisheng
Transmitter Spurious Emission - Conducted	Wang Shuai, Tang Weisheng
Transmitter Spurious Emission - Radiated	Wang Shuai, Tang Weisheng
AC Powerline Conducted Emission	Wang Shuai, Tang Weisheng

©Copyright. All rights reserved by CTTL.

ANNEX E: Accreditation Certificate

China National Accreditation Service for Conformity Assessment

LABORATORY ACCREDITATION CERTIFICATE

(Registration No. CNAS L0570)

China Academy of Telecommunication Research of MIIT

No.52, Huayuan North Road, Haidian District, Beijing, China

is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) *for the competence of testing and calibration.*

The scope of accreditation is detailed in the attached appendices bearing the same registration number as above. The appendices form an integral part of this certificate.

Date of Issue: 2014-06-20

Date of Expiry: 2017-06-19

Date of Initial Accreditation: 1998-07-03

Date of Update: 2014-06-20

Signed on behalf of China National Accreditation Service for Conformity Assessment

China National Accreditation Service for Conformity Assessment (CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is the signatory to International Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (ILAC MRA) and Asia Pacific Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (APLAC MRA).

No.CNAS AL 2 0010037

*****END OF REPORT*****

©Copyright. All rights reserved by CTTL.