



**FCC PART 15C  
TEST REPORT  
No. I17N00067-BLE**

**for**

**Power Idea Technology (Shenzhen) Co., Ltd**

**TD-LTE digital mobile phone**

**Model Name: RG730**

**With**

**Hardware Version: 1.04**

**Software Version: RG730\_US\_25\_V1.01\_V02W\_20161205**

**FCC ID: ZLE-RG730**

**IC: 11113A-RG730**

**Issued Date: 2017-03-08**

**Test Laboratory:**

***FCC 2.948 Listed: No.342690***

***IC O.A.T.S Listed: No. 21856-1***

**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.

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I17N00067-BLE	Rev.0	1st edition	2017-03-08
I17N00067-BLE	Rev.1	2st edition	2017-04-07

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## **1. Test Laboratory**

### **1.1. Testing Location**

Location: CTTL(South Branch)  
Address: TCL International E city, No. 1001, Zhongshanyuan Road, Nanshan  
District, Shenzhen, Guangdong, China 518000

### **1.2. Testing Environment**

Normal Temperature: 15-35℃  
Relative Humidity: 20-75%

### **1.3. Project data**

Testing Start Date: 2017-01-19  
Testing End Date: 2017-03-03

### **1.4. Signature**

Lin Kanfeng

(Prepared this test report)

Tang Weisheng

(Reviewed this test report)

Zhang Bojun

(Approved this test report)



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: Power Idea Technology (Shenzhen) Co., Ltd.  
4th Floor, A Section , Languang Science & technology Building , No.7  
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### **2.2. Manufacturer Information**

Company Name: Power Idea Technology (Shenzhen) Co., Ltd.  
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Country: China  
Telephone: 0755-86220211  
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### **3. Equipment Under Test (EUT) and Ancillary Equipment (AE)**

#### **3.1. About EUT**

Description	TD-LTE digital mobile phone
Model Name	RG730
Market Name	/
Frequency Band	2402MHz~2480MHz
Type of Modulation	GFSK
Number of Channels	40
Antenna	Integrated
Power Supply	3.7V DC by Battery
FCC ID	ZLE-RG730
IC Number	11113A-RG730

#### **3.2. Internal Identification of EUT**

EUT ID*	IMEI	HW Version	SW Version	Receive Date
EUT1	867453021949733	1.04	RG730_US_25_V1.01 _V02W_20161205	2017-01-19

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

#### **3.3. Internal Identification of AE**

AE ID*	Description	SN
AE1	Power Supply	/

AE1

Model	HKC0055010-2D
Manufacturer	SHENZHEN HUNTKEY ELECTRIC CO., LTD

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

## **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.

<b>Reference</b>	<b>Title</b>	<b>Version</b>
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	Nov,2015
ANSI C63.10	American National Standard for Testing Unlicensed Wireless Devices	Jun,2013
RSS-Gen	Spectrum Management and Telecommunications Radio Standards Specification General Requirements for Compliance of Radio Apparatus	Issue 4 Nov,2014
RSS-247	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices	Issue 1 May,2015



## 5. Test Results

### 5.1. Summary of Test Results

No	Test cases	Sub-clause of Part15C	Sub-clause of IC	Verdict
0	Antenna Requirement	15.203	/	P
1	Maximum Peak Output Power	15.247 (b)	RSS-247 Issue1 5.4	P
2	Peak Power Spectral Density	15.247 (e)	RSS-247 Issue1 5.2	P
3	Occupied 6dB Bandwidth	15.247 (a)	RSS-247 Issue1 5.2	P
4	Band Edges Compliance	15.247 (d)	RSS-247 Issue1 5.5	P
5	Transmitter Spurious Emission - Conducted	15.247 (d)	RSS-247 Issue1 5.5/RSS-Gen 6.13	P
6	Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	RSS-247 Issue1 5.5/RSS-Gen 6.13	P
7	Occupied Bandwidth	/	RSS-Gen Issue4 6.6	P
8	AC Powerline Conducted Emission	15.107, 15.207	RSS-Gen Issue4 8.8	P

Use the EUT inside MTK Engineering mode to control the transmitting signal.

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

### 5.2. Statements

CTTL has evaluated the test cases requested by the applicant/manufacture 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 isotropic radiated power
ISM	Industrial, Scientific and Medical
R&TTE	Radio and Telecommunications Terminal Equipment
RF	Radio Frequency
Tx	Transmitter

#### 5.4. Laboratory Environment

**Semi-anechoic chamber** did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ±4dB, 3m/10m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz

**Shielded room** did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω

**Fully-anechoic chamber** did not exceed following limits along the EMC testing

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω
Voltage Standing Wave Ratio (VSWR)	≤6dB, from 1 to 18 GHz, 3m distance

## 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	2017-03-21	1 year

### Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	LISN	ESH2-Z5	100196	R&S	2018-01-05	1 year
2	Test Receiver	ESCI	100701	R&S	2017-08-09	1 year
3	Loop Antenna	HLA6120	35779	TESEQ	2019-05-02	3 years
4	BiLog Antenna	VULB9163	9163 330	Schwarzbeck	2017-04-22	3 years
5	Horn Antenna	3117	00066585	ETS-Lindgren	2019-03-05	3 years
6	Test Receiver	ESR7	101675	R&S	2017-07-21	1 year
7	Spectrum Analyzer	FSP 40	100378	R&S	2017-12-15	1 year
8	Chamber	FACT5-2.0	4166	ETS-Lindgren	2018-05-13	3 years
9	Antenna	3160-09	LM4214/0011 8383	ETS-Lindgren	2018.07.14	3 years

### Software

No.	Equipment	Version
1	TechMgr Software	1.9.1
2	EMC32	8.53.0
3	EMC32	10.01.00

### Anechoic chamber

Fully anechoic chamber by ETS-Lindgren

**ANNEX A: MEASUREMENT RESULTS FOR RECEIVER****A.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 0.32dBi.  
The RF transmitter uses an integrate antenna without connector.**

## A.1 Maximum Peak Output Power

### Measurement Limit:

Standard	Limit (dBm)
FCC CRF Part 15.247(b)(1) & RSS-247 Issue1 5.4	< 30

### Measurement Results:

Mode	Channel	Maximum Peak Output Power (dBm)		Conclusion
GFSK	0	Fig.1	-1.51	P
	19	Fig.2	-0.49	P
	39	Fig.3	-2.06	P

See ANNEX B for test graphs.

Conclusion: Pass

## A.2 Peak Power Spectral Density

### Measurement Limit:

Standard	Limit
FCC CRF Part 15.247(d) & RSS-247 Issue1 5.4	< 8 dBm/3 kHz

### Measurement Results:

Mode	Channel	Peak Power Spectral Density (dBm)		Conclusion
GFSK	0	Fig.4	-17.00	P
	19	Fig.5	-15.61	P
	39	Fig.6	-17.45	P

See ANNEX B for test graphs.

Conclusion: PASS

### A.3 Occupied 6dB Bandwidth

**Measurement Limit:**

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a) & RSS-247 Issue1 5.2	$\geq 500$

**Measurement Result:**

Mode	Channel	Test Results ( kHz)		conclusion
GFSK	0	Fig.7	688.0	P
	19	Fig.8	688.5	P
	39	Fig.9	691.0	P

See ANNEX B for test graphs.

Conclusion: PASS

### A.4 Band Edges Compliance

**Measurement Limit:**

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d) & RSS-247 Issue1 5.5	$> 20$

**Measurement Result:**

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

See ANNEX B for test graphs.

Conclusion: Pass

**A.5 Transmitter Spurious Emission - Conducted****Measurement Limit:**

Standard	Limit
FCC 47 CFR Part 15.247 (d) & RSS-247 Issue1 5.5/RSS-Gen 6.13	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 B for test graphs.

**Conclusion: Pass**

## A.6 Transmitter Spurious Emission - Radiated

### Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209 & RSS-247 Issue1 5.5/RSS-Gen 6.13	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( $\mu$ V/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.



**Measurement Results:**

GFSK	0	1 GHz ~18 GHz	Fig.22	P
	19	9 kHz ~30 MHz	Fig.23	P
		30 MHz ~1 GHz	Fig.24	P
		1 GHz ~18 GHz	Fig.25	P
		18 GHz~ 26.5 GHz	Fig.26	P
	39	1 GHz ~18 GHz	Fig.27	P
	Power(CH0)	2.38 GHz ~ 2.45 GHz	Fig.28	P
	Power(CH39)	2.45 GHz ~ 2.5 GHz	Fig.29	P

**GFSK CH0 (1-18GHz)**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Corr. (dB)	Pol
13086.00000	52.44	74.00	21.56	11.1	V
15147.00000	55.61	74.00	18.39	12.1	V
15644.50000	57.59	74.00	16.41	12.6	V
16226.00000	58.35	74.00	15.65	13.1	V
16797.50000	58.32	74.00	15.68	13.9	V
17442.50000	58.29	74.00	15.71	14.0	H

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Corr. (dB)	Pol
13923.00000	42.54	54.00	11.46	10.8	V
15156.50000	44.05	54.00	9.95	12.1	H
15688.00000	45.67	54.00	8.33	12.7	H
16199.00000	45.94	54.00	8.06	13.1	V
16793.50000	46.58	54.00	7.42	13.9	H
17342.00000	46.16	54.00	7.84	14.0	H

**GFSK CH19 (1-18GHz)**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Corr. (dB)	Pol
13764.50000	53.45	74.00	20.55	11.1	V
15178.00000	56.00	74.00	18.00	12.2	H
15704.00000	57.54	74.00	16.46	12.7	H
16367.50000	57.58	74.00	16.42	13.5	V
16840.00000	57.91	74.00	16.09	13.9	V
17446.50000	57.39	74.00	16.61	14.0	V

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Corr. (dB)	Pol
14548.50000	43.42	54.00	10.58	11.9	V
15154.50000	44.23	54.00	9.77	12.1	V
15763.00000	45.46	54.00	8.54	12.8	H
16209.50000	45.66	54.00	8.34	13.1	H
16785.50000	46.10	54.00	7.90	13.9	H
17274.50000	45.71	54.00	8.29	13.9	H

**GFSK CH39 (1-18GHz)**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Corr. (dB)	Pol
14074.50000	54.62	74.00	19.38	11.0	H
15171.00000	56.29	74.00	17.71	12.1	H
15738.00000	58.19	74.00	15.81	12.8	V
16232.00000	57.97	74.00	16.03	13.1	H
16843.00000	58.15	74.00	15.85	13.9	H
17447.00000	58.44	74.00	15.56	14.0	V

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Corr. (dB)	Pol
14534.00000	43.05	54.00	10.95	11.9	H
15151.50000	44.06	54.00	9.94	12.1	H
15693.50000	45.60	54.00	8.40	12.7	H
16209.00000	46.02	54.00	7.98	13.1	H
16747.00000	46.68	54.00	7.32	13.9	H
17301.50000	46.09	54.00	7.91	13.9	V

**See ANNEX B 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 Antenna Factor, 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:  $Result = P_{Mea} + A_{Rpl} = P_{Mea} + Cable Loss + Antenna Factor - Gain of the preamplifier$

**A.7 Occupied Bandwidth****Measurement Limit:**

Standard	Limit
RSS-Gen Issue4 6.6	/

**Measurement Results:****For GFSK**

Channel No.	Frequency (MHz)	6dB Bandwidth (kHz)		Conclusion
0	2402	Fig.30	1017.0	P
19	2440	Fig.31	1006.0	P
39	2480	Fig.32	1016.0	P

See ANNEX B for test graphs.

**Conclusion: PASS**

## A.8 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 (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Traffic	
0.15 to 0.5	66 to 56	Fig.33	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 (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Traffic	
0.15 to 0.5	56 to 46	Fig.33	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.

BLE (Quasi-peak Limit)-AE1

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Idle	
0.15 to 0.5	66 to 56	Fig.34	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 (dB $\mu$ V)	Result (dB $\mu$ V)	Conclusion
		Idle	
0.15 to 0.5	56 to 46	Fig.34	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.

**Test Condition:**

Voltage (V)	Frequency (Hz)
240	60

**Measurement Result and limit:**

BLE (Quasi-peak Limit)-AE1

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Traffic	
0.15 to 0.5	66 to 56	Fig.35	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	
0.15 to 0.5	56 to 46	Fig.35	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.

BLE (Quasi-peak Limit)-AE1

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)	Conclusion
		Idle	
0.15 to 0.5	66 to 56	Fig.36	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
		Idle	
0.15 to 0.5	56 to 46	Fig.36	P
0.5 to 5	46		
5 to 30	50		

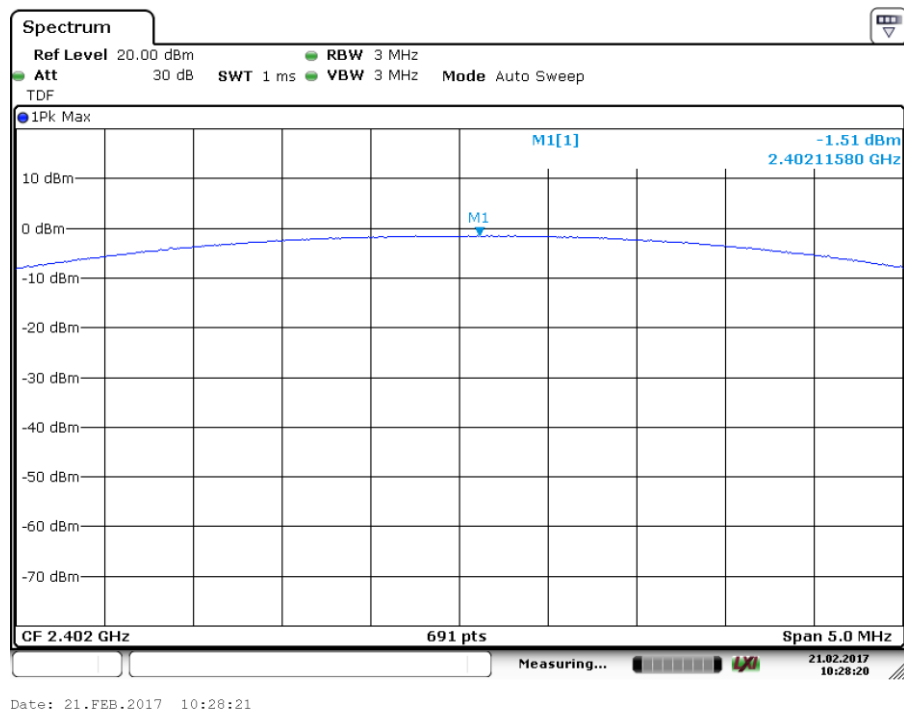
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

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

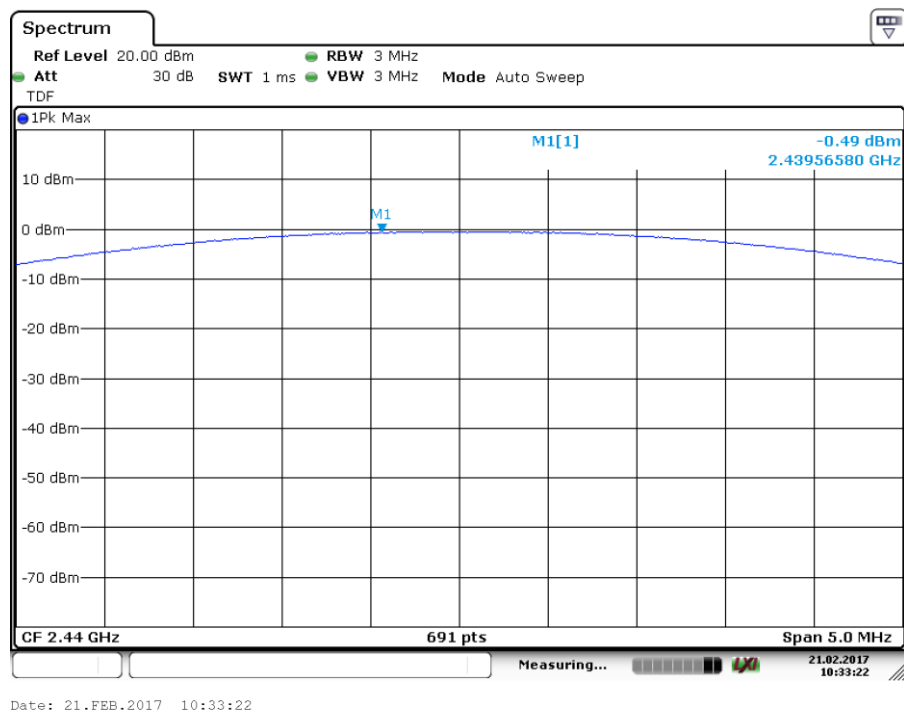
**See ANNEX B for test graphs.**

**Conclusion: Pass**

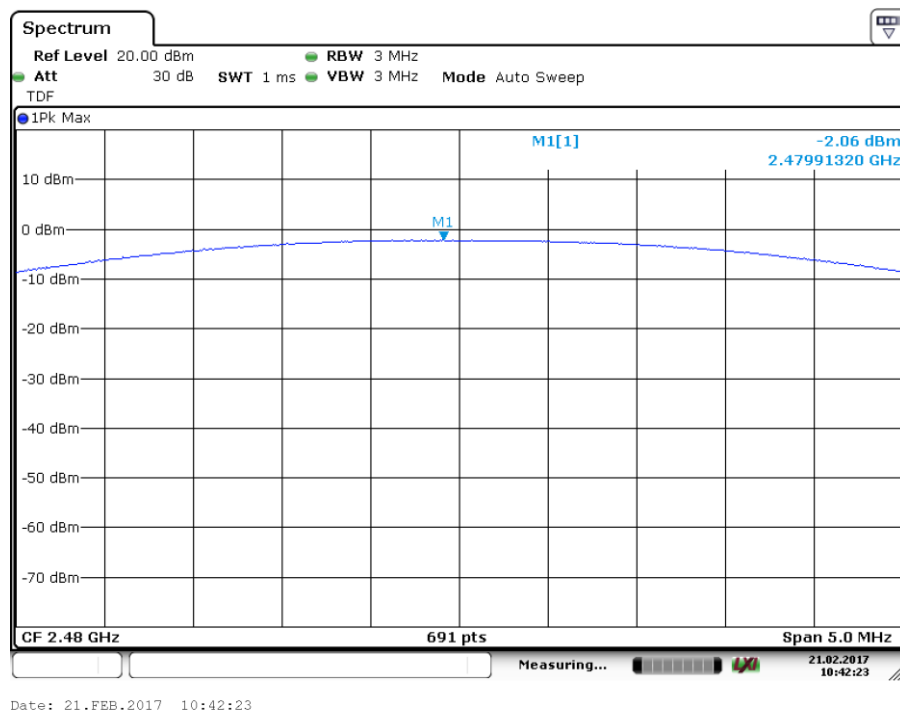
## ANNEX B: TEST FIGURE LIST



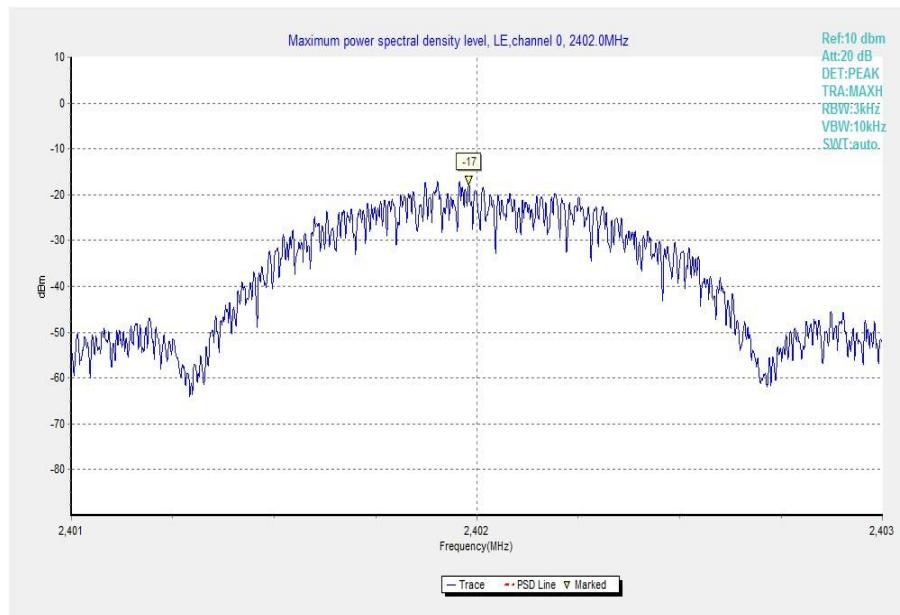
**Fig.1 Maximum Peak Output Power(GFSK, Ch 0)**



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

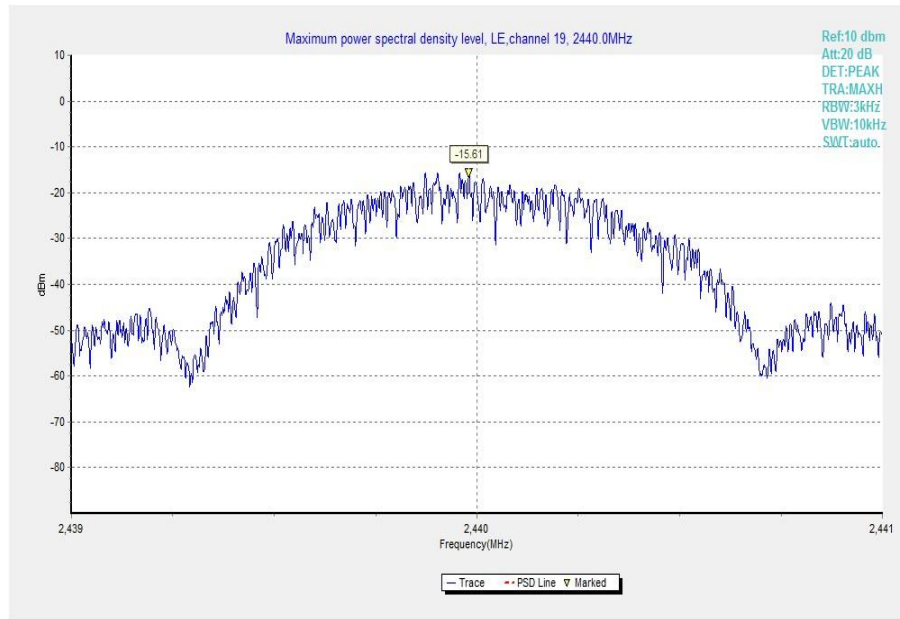


**Fig.3 Maximum Peak Output Power(GFSK, Ch 39)**

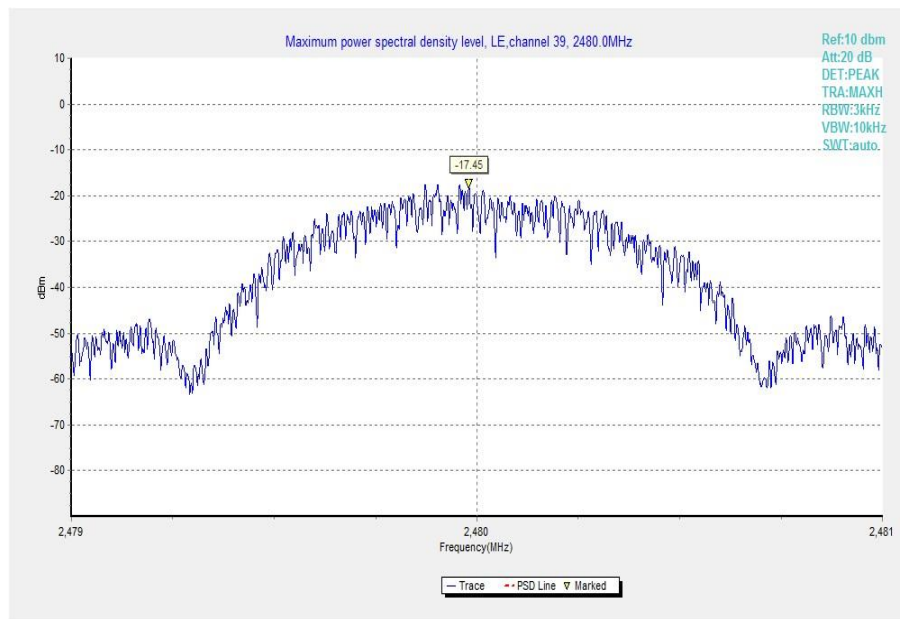


**Fig.4 Power Spectral Density (Ch 0)**





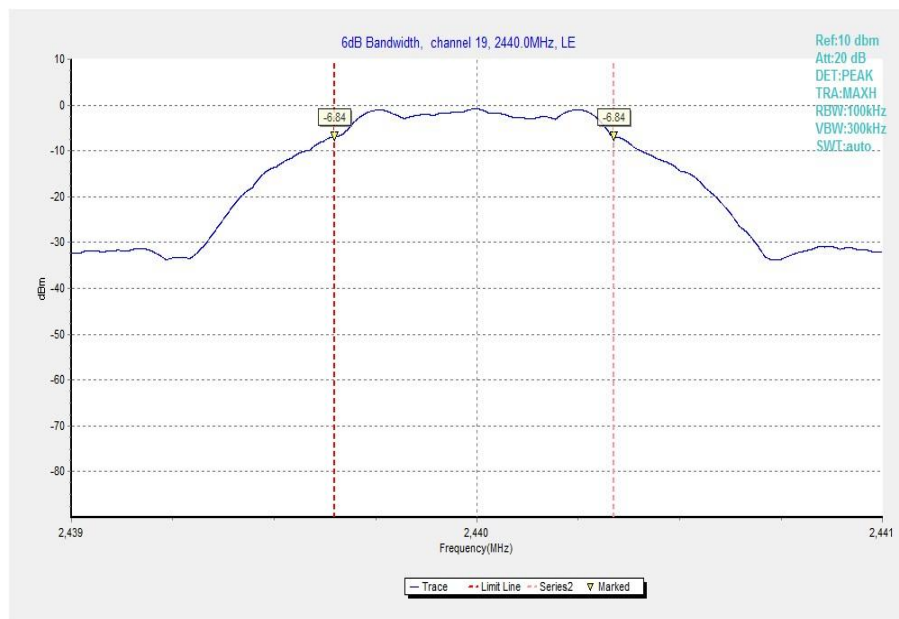
**Fig.5 Power Spectral Density (Ch 19)**



**Fig.6 Power Spectral Density (Ch 39)**



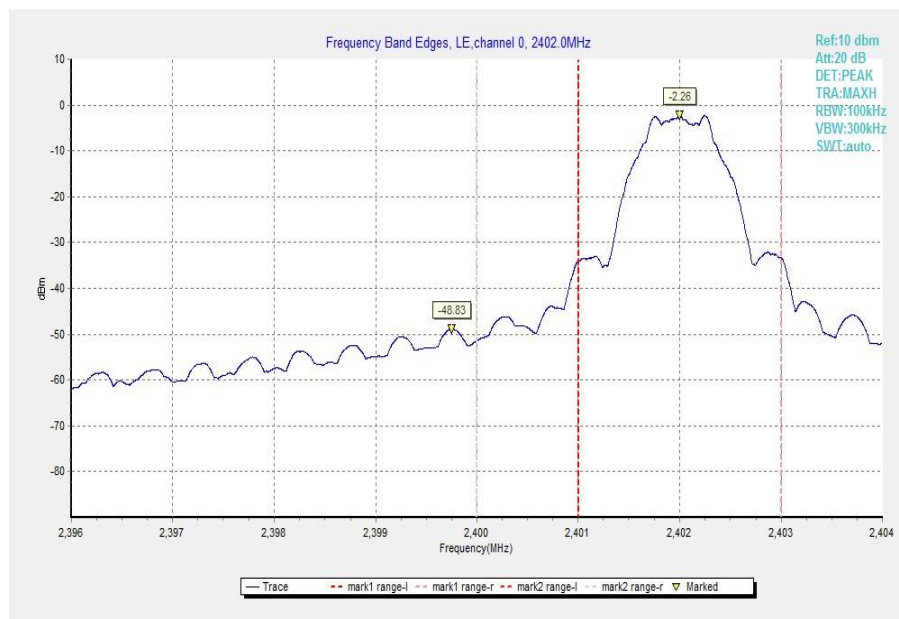
**Fig.7 Occupied 6dB Bandwidth (Ch 0)**



**Fig.8 Occupied 6dB Bandwidth (Ch 19)**



**Fig.9 Occupied 6dB Bandwidth (Ch 39)**



**Fig.10 Band Edges (Ch 0)**

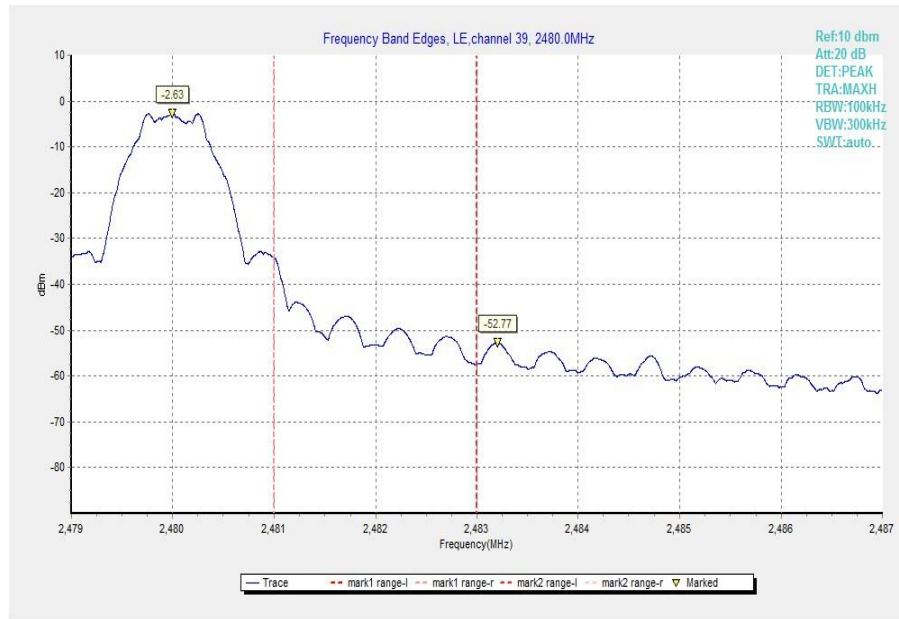


Fig.11 Band Edges (Ch 39)

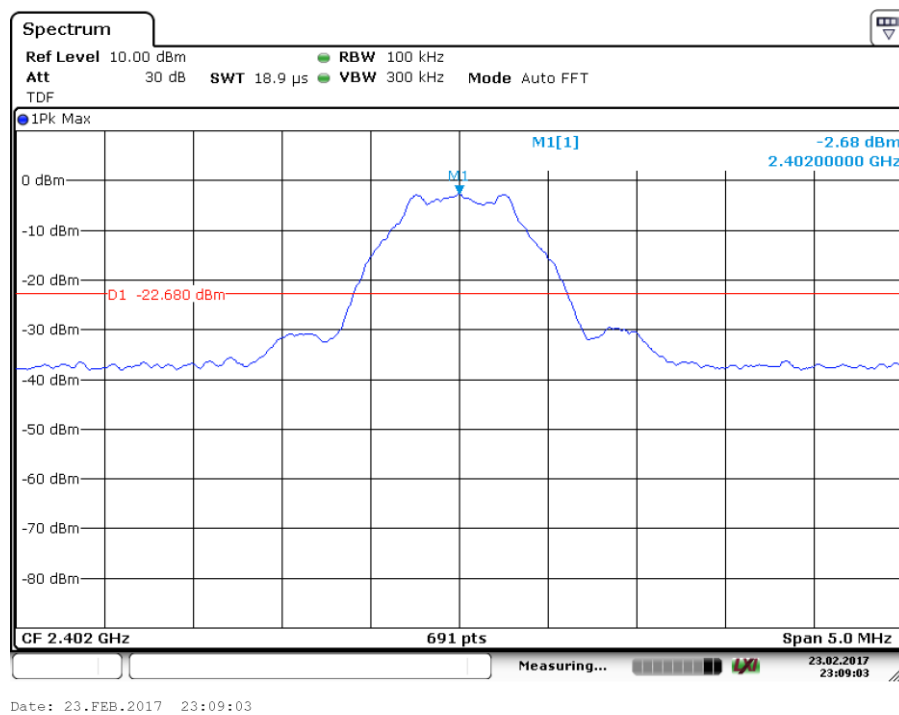
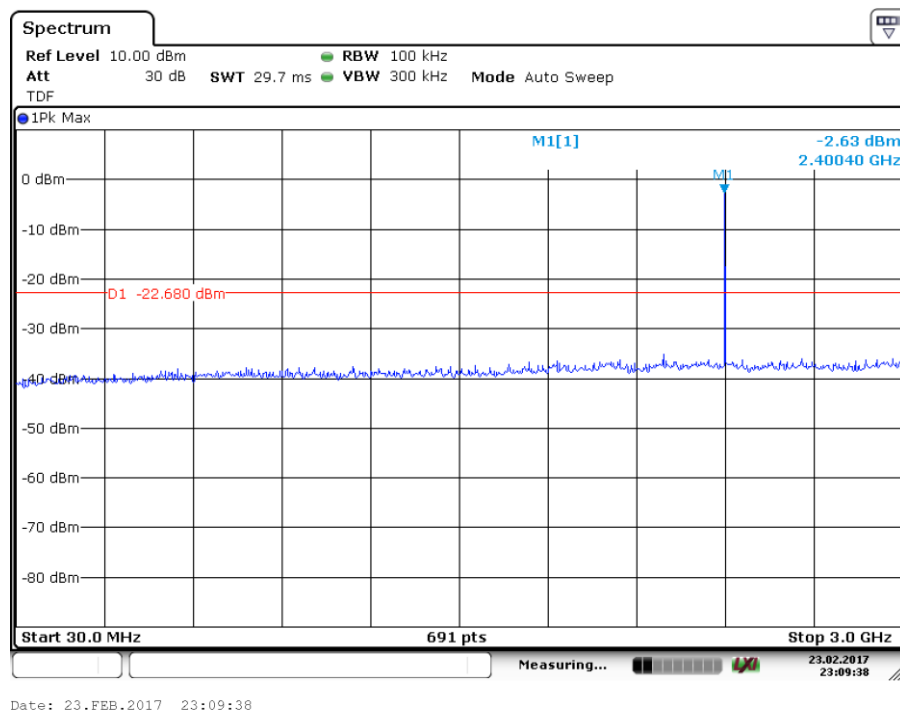
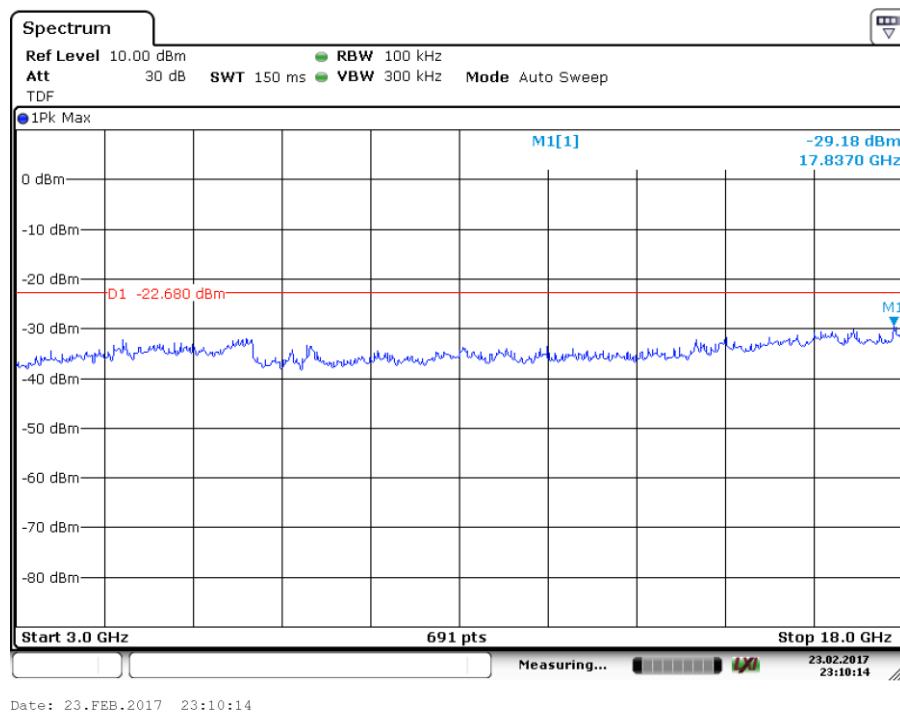


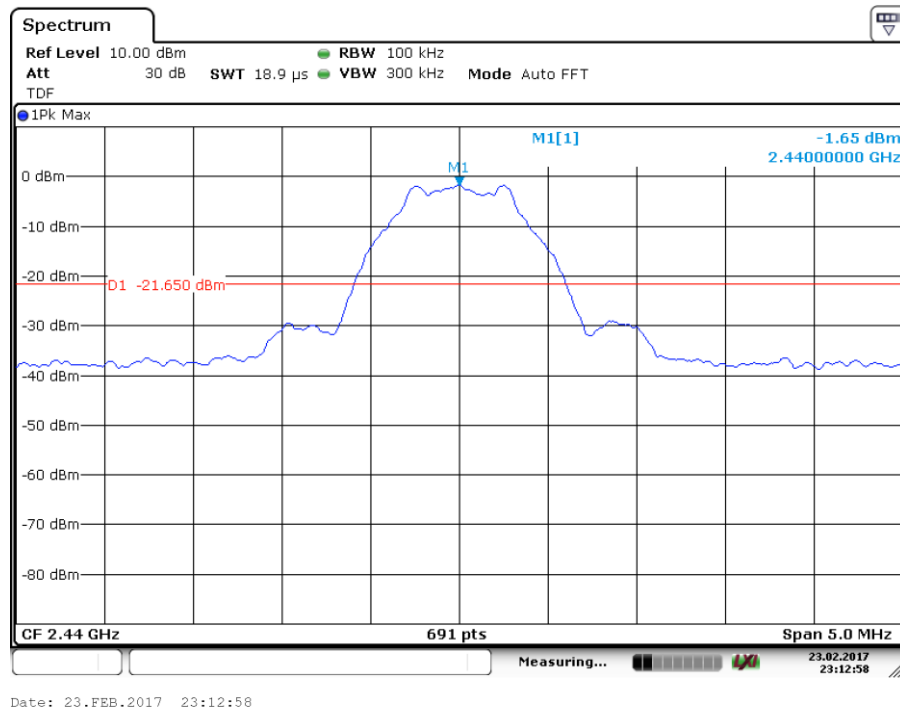
Fig.12 Conducted Spurious Emission (Ch0, Center Frequency)



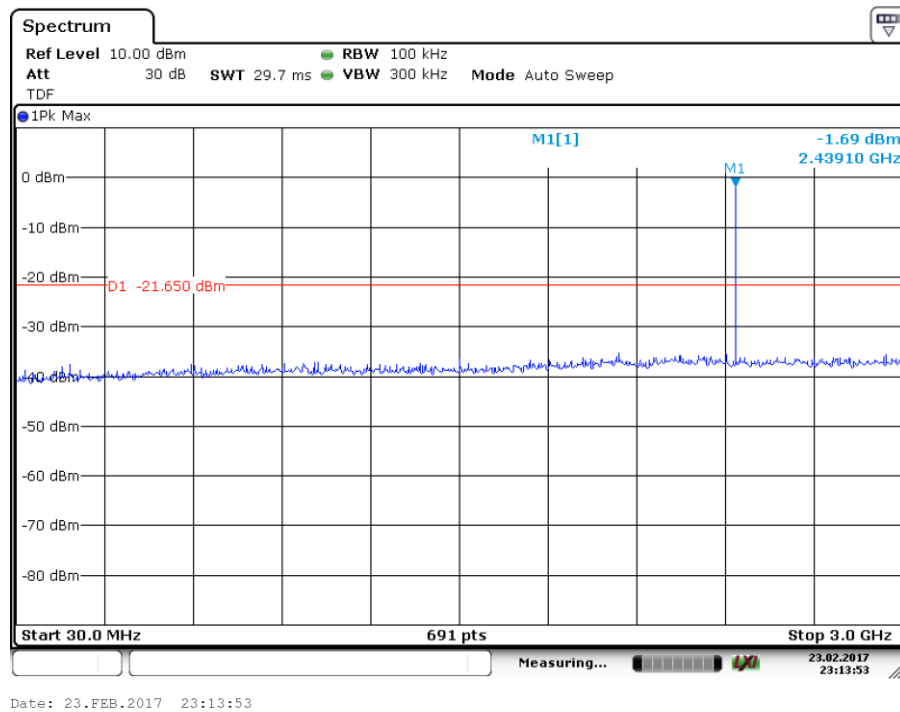
**Fig.13 Conducted Spurious Emission (Ch0, 30 MHz-3 GHz)**



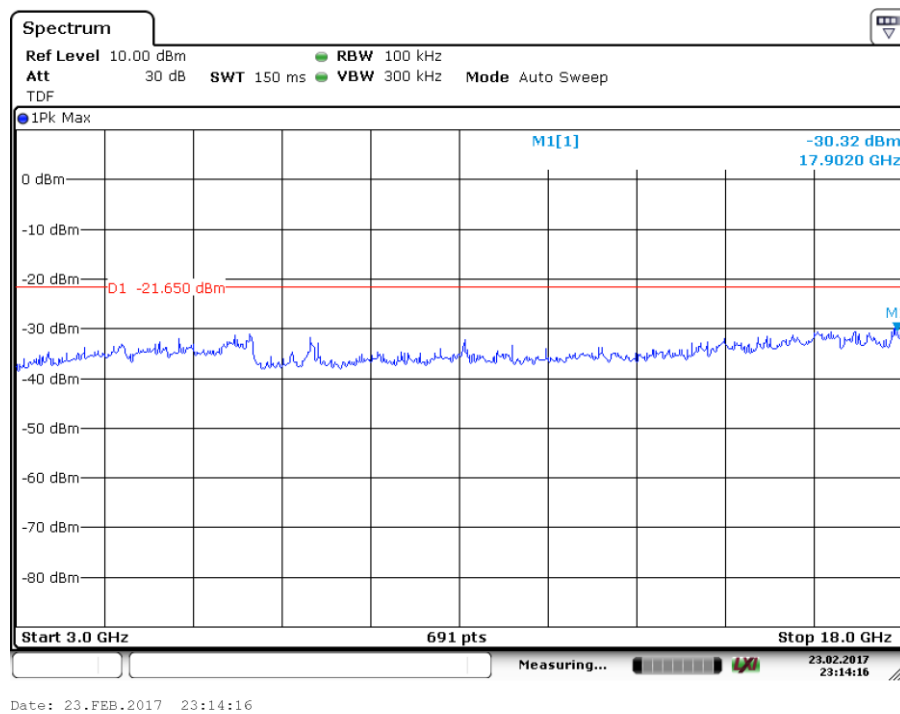
**Fig.14 Conducted Spurious Emission (Ch0, 3 GHz-18 GHz)**



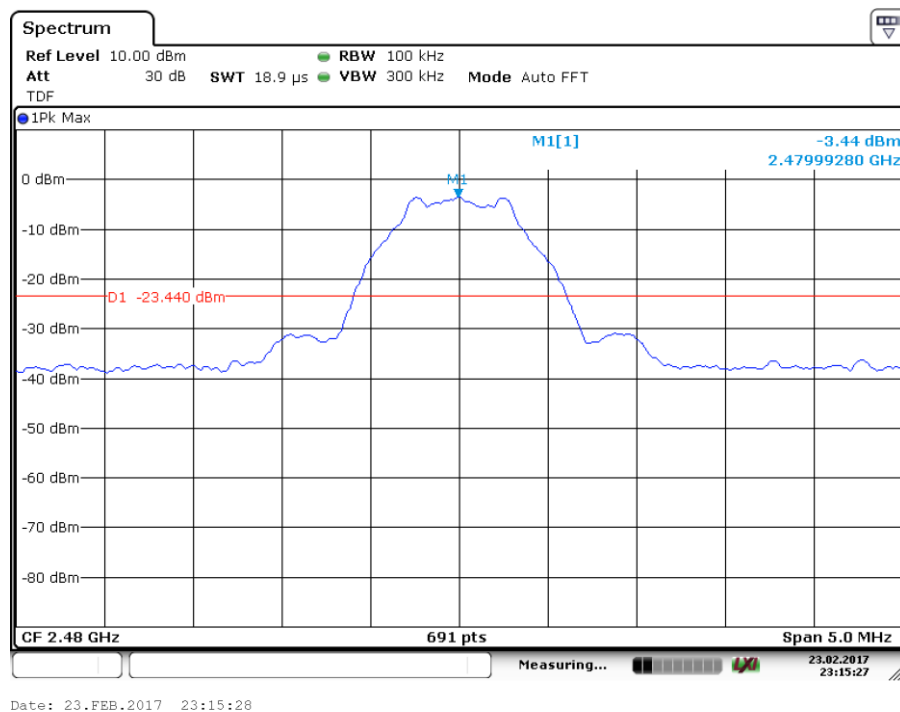
**Fig.15 Conducted Spurious Emission (Ch19, Center Frequency)**



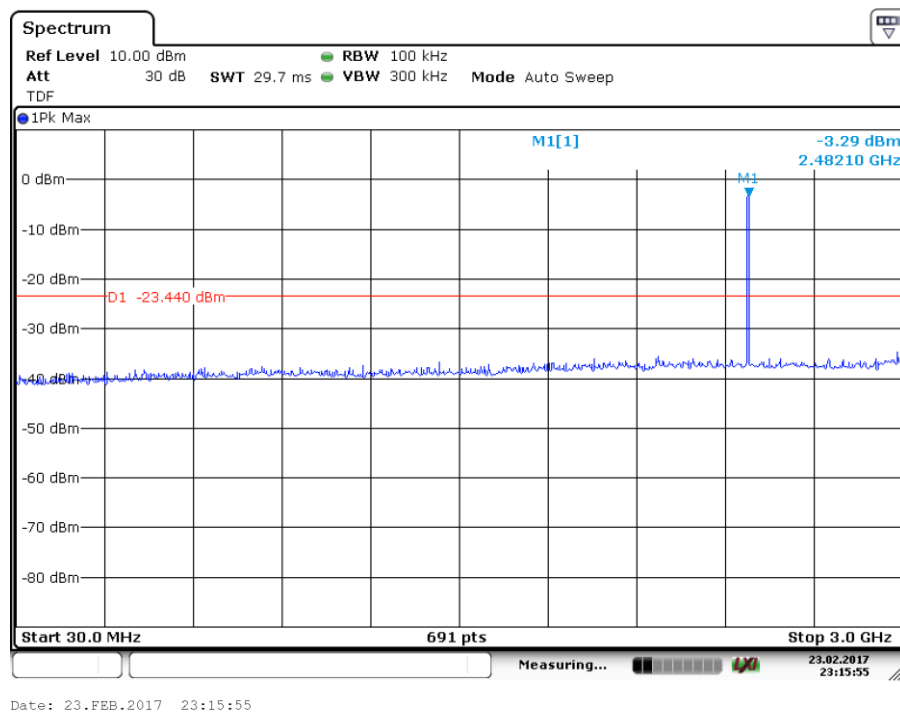
**Fig.16 Conducted Spurious Emission (Ch19, 30 MHz-3 GHz)**



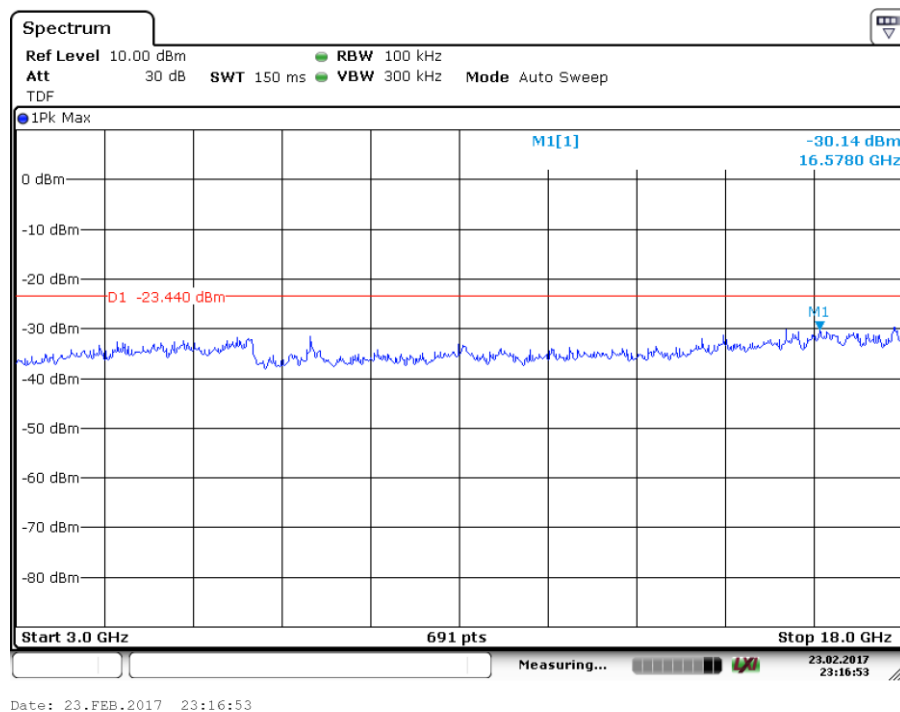
**Fig.17 Conducted Spurious Emission (Ch19, 3 GHz-18 GHz)**



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

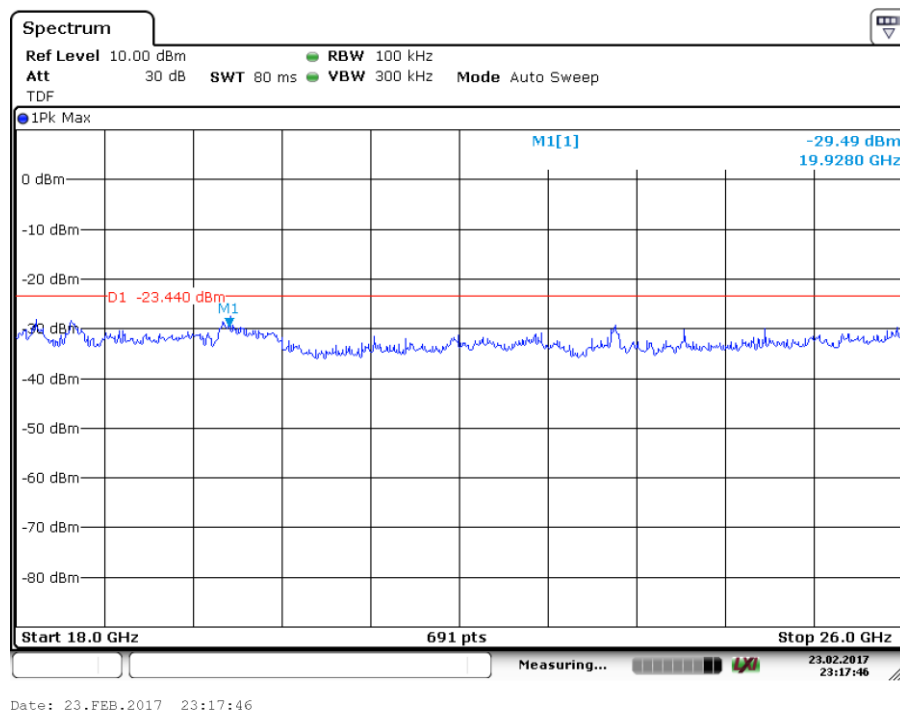


**Fig.19 Conducted Spurious Emission (Ch39, 30 MHz-3 GHz)**

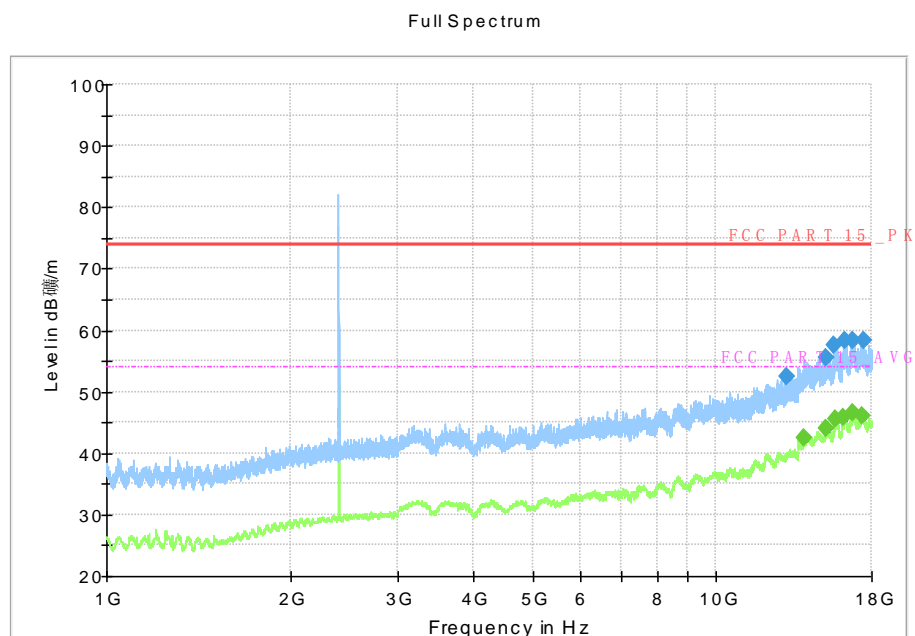


**Fig.20 Conducted Spurious Emission (Ch39, 3 GHz-18 GHz)**

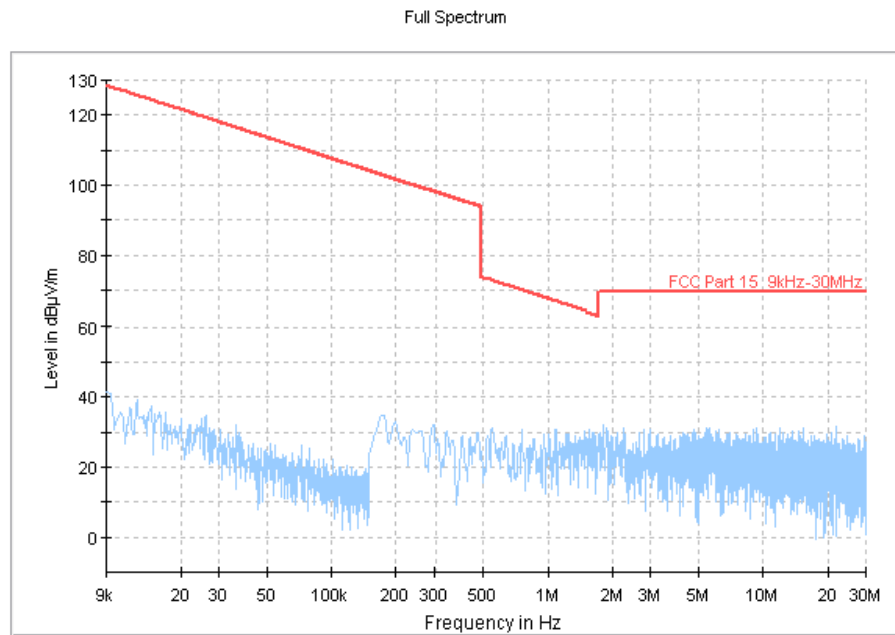




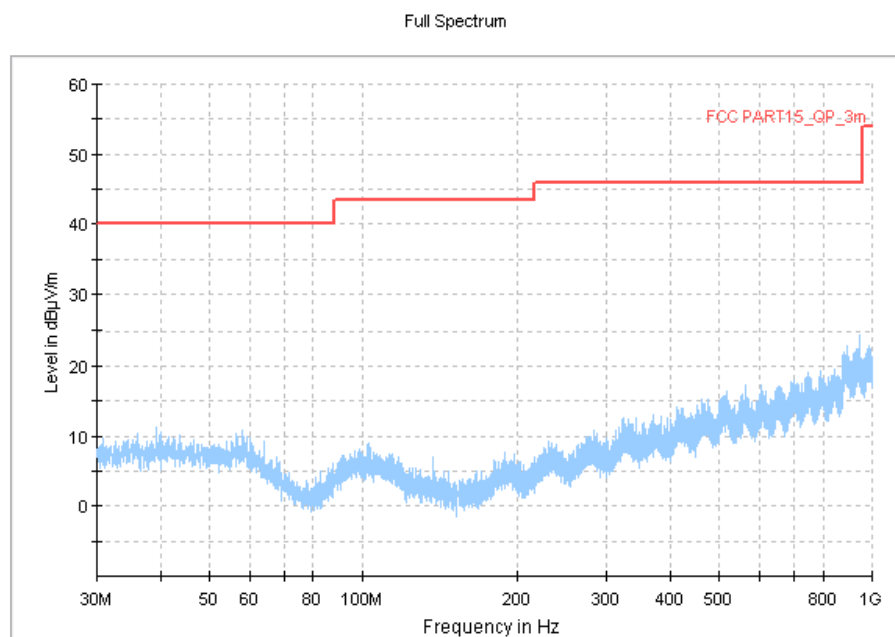
**Fig.21 Conducted Spurious Emission (All channels, 18 GHz-26 GHz)**



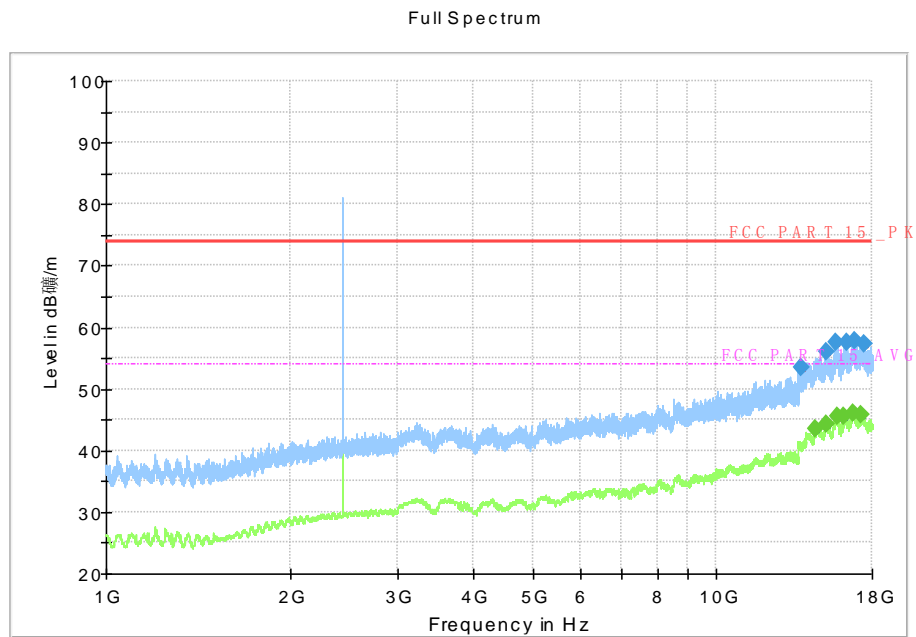
**Fig.22 Radiated Spurious Emission (GFSK, Ch0, 1 GHz ~18 GHz)**



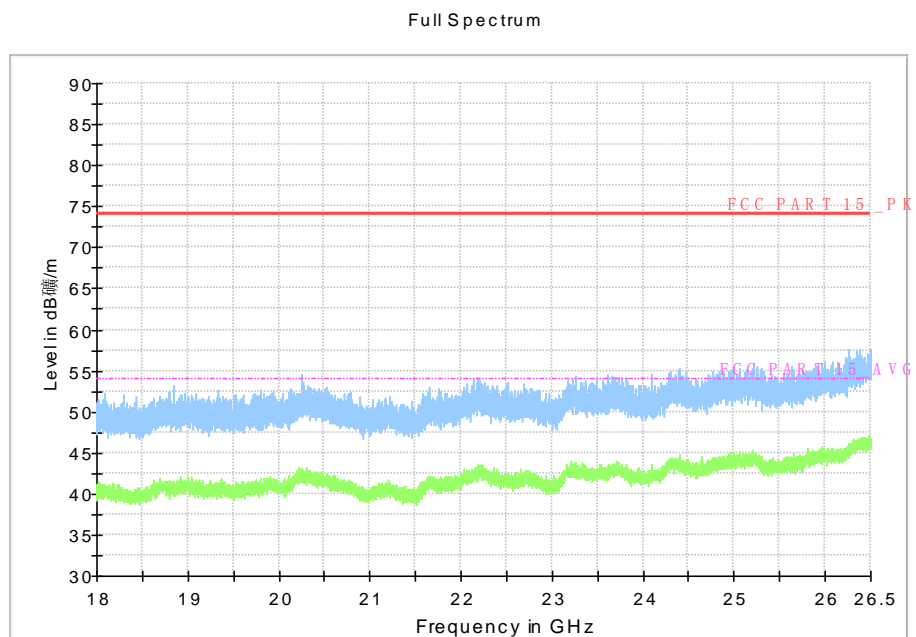
**Fig.23 Radiated Spurious Emission (Ch19, 9 kHz-30 MHz)**



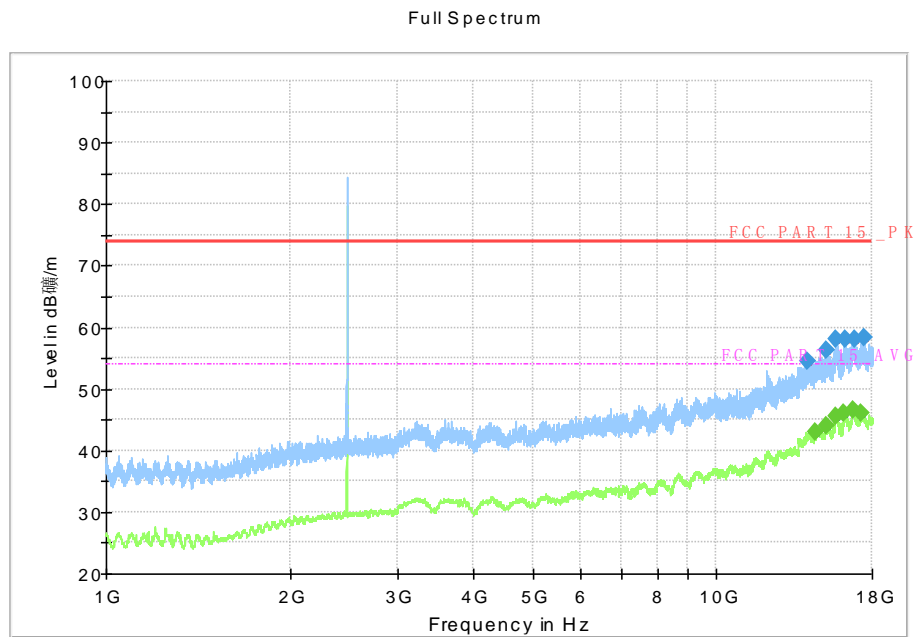
**Fig.24 Radiated Spurious Emission (Ch19, 30 MHz-1 GHz)**



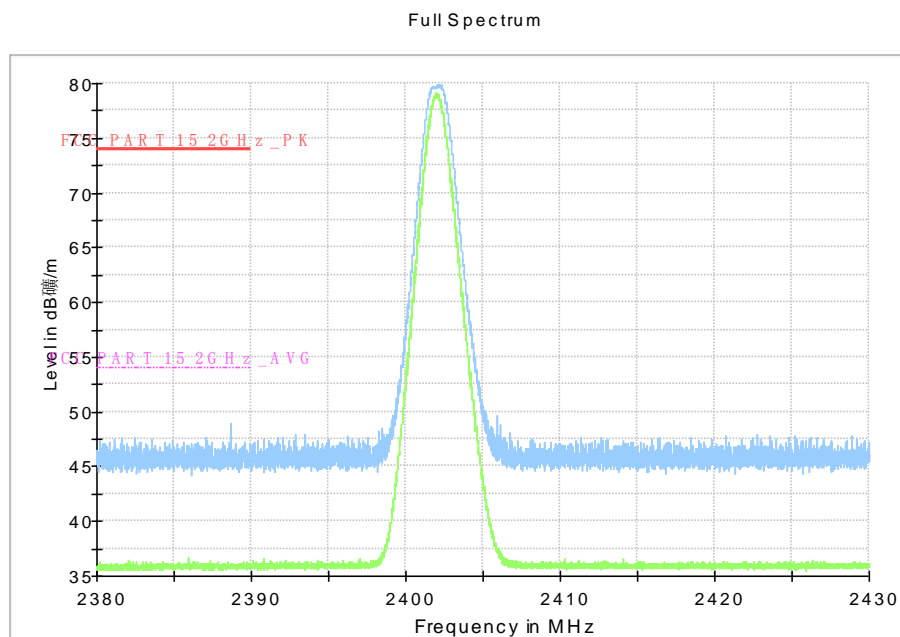
**Fig.25 Radiated Spurious Emission (Ch19, 1 GHz- 18 GHz)**



**Fig.26 Radiated Spurious Emission (Ch19, 18 GHz-26.5 GHz)**



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



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

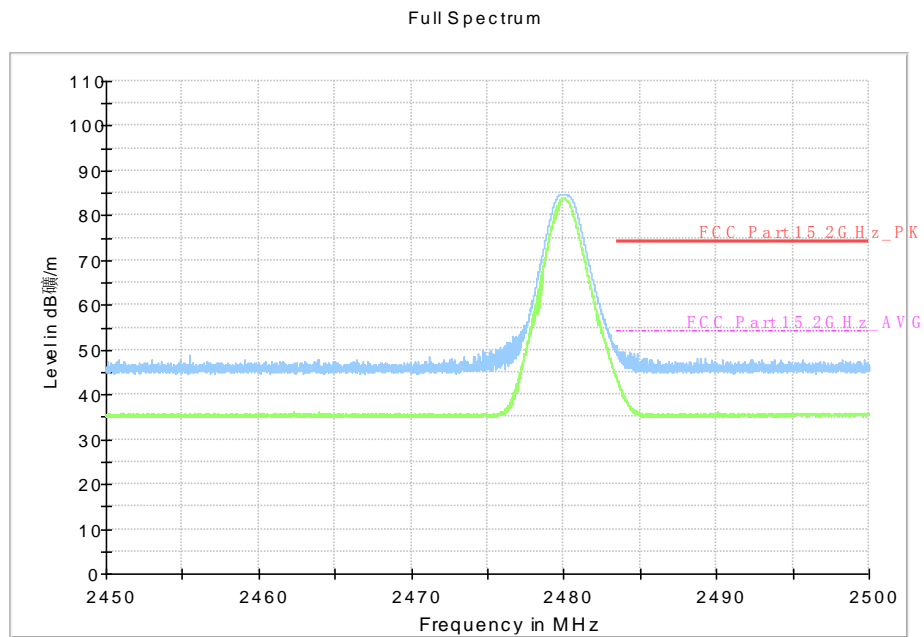


Fig.29 Radiated Emission Power (GFSK, Ch39, 2450GHz~2500GHz)

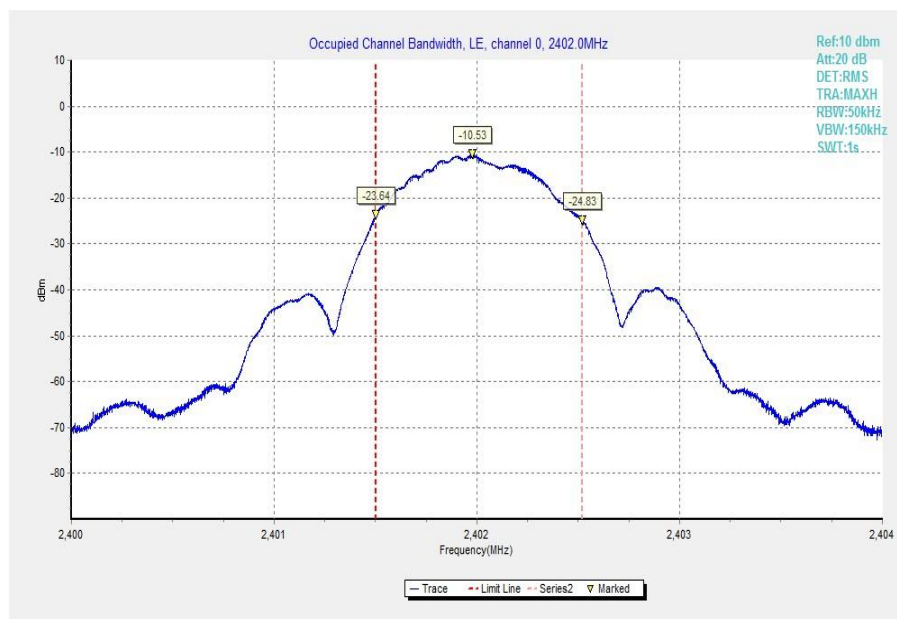
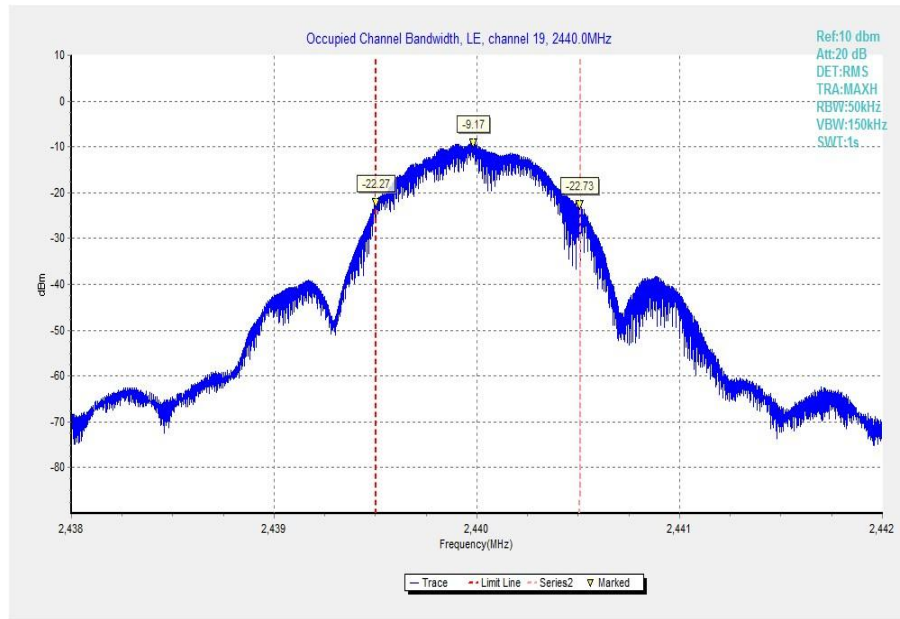
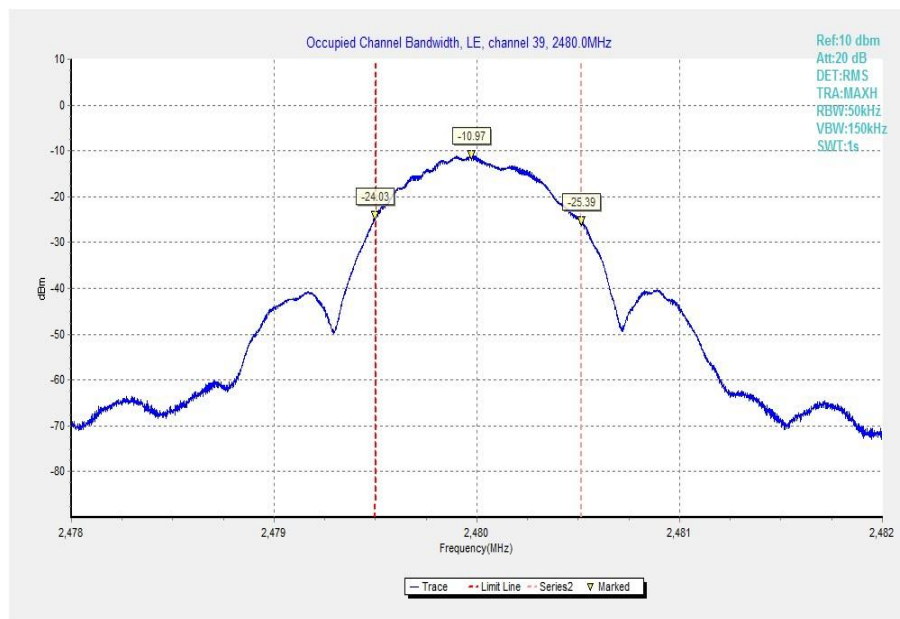


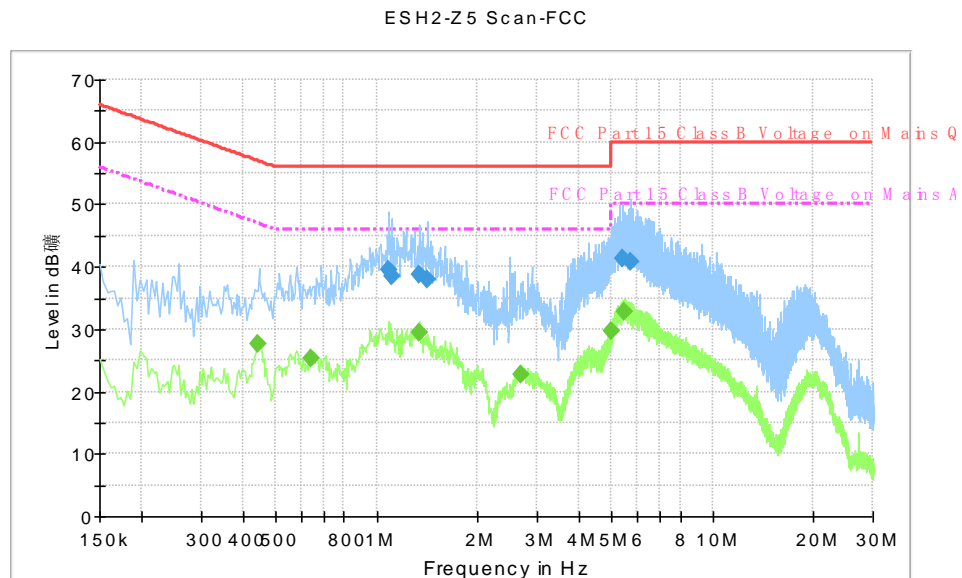
Fig.30 Occupied Bandwidth: GFSK, Channel 0



**Fig.31 Occupied Bandwidth: GFSK, Channel 19**



**Fig.32 Occupied Bandwidth: GFSK, Channel 39**



**Fig.33 AC Powerline Conducted Emission (Traffic, AE1)**

**MEASUREMENT RESULT: " QuasiPeak "**

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
1.086000	39.5	GND	N	9.6	16.5	56.0
1.106000	38.5	GND	N	9.6	17.5	56.0
1.338000	38.7	GND	N	9.6	17.3	56.0
1.418000	38.1	GND	N	9.5	17.9	56.0
5.394000	41.4	GND	N	9.7	18.6	60.0
5.734000	40.9	GND	N	9.7	19.1	60.0

**MEASUREMENT RESULT: " Average "**

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.442000	27.7	GND	N	9.7	19.3	47.0
0.642000	25.2	GND	N	9.6	20.8	46.0
1.346000	29.5	GND	N	9.6	16.5	46.0
2.702000	22.7	GND	N	9.6	23.3	46.0
4.982000	29.7	GND	N	9.6	16.3	46.0
5.458000	32.8	GND	N	9.7	17.2	50.0

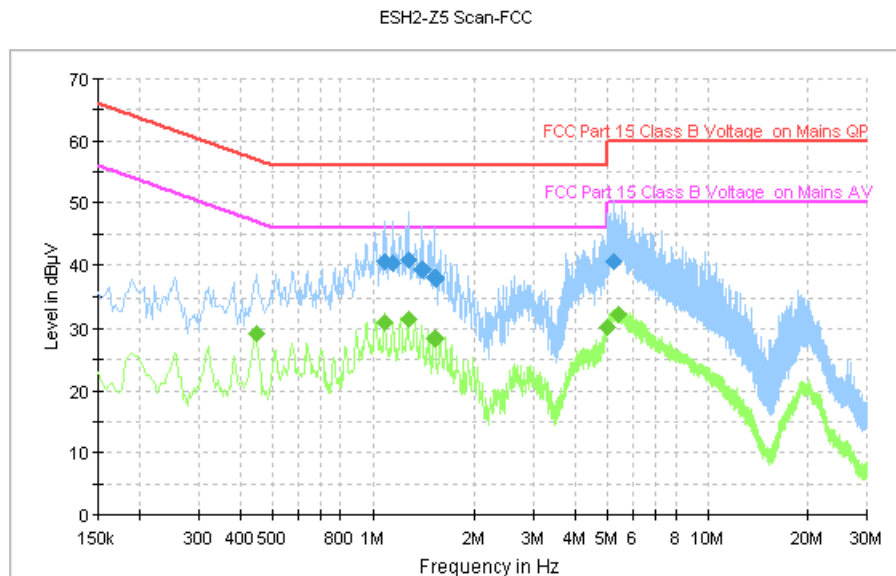


Fig.34 AC Power line Conducted Emission (Idle, AE1)

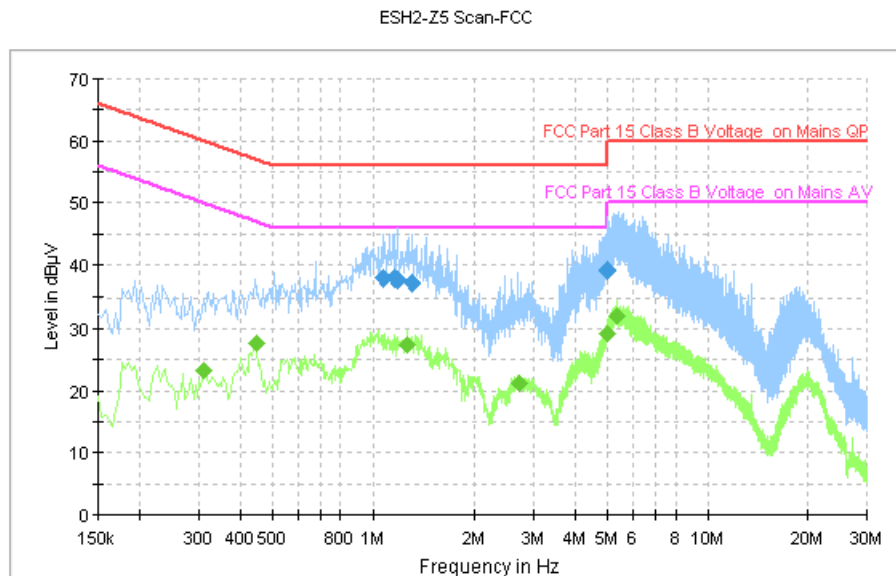
MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.086000	40.5	GND	N	9.6	15.5	56.0
1.146000	40.2	GND	N	9.6	15.8	56.0
1.278000	40.9	GND	N	9.6	15.1	56.0
1.406000	39.3	GND	N	9.5	16.7	56.0
1.534000	38.0	GND	N	9.6	18.0	56.0
5.222000	40.6	GND	N	9.6	19.4	60.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.446000	29.3	GND	N	9.7	17.7	46.9
1.086000	31.1	GND	N	9.6	14.9	46.0
1.278000	31.6	GND	N	9.6	14.4	46.0
1.530000	28.4	GND	N	9.6	17.6	46.0
4.982000	30.1	GND	N	9.6	15.9	46.0
5.394000	32.2	GND	N	9.7	17.8	50.0





**Fig.35 AC Powerline Conducted Emission (Traffic, AE1)**

**MEASUREMENT RESULT: " QuasiPeak "**

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
1.074000	38.0	GND	N	9.6	18.0	56.0
1.158000	38.0	GND	N	9.5	18.0	56.0
1.182000	37.7	GND	N	9.5	18.3	56.0
1.310000	37.3	GND	N	9.6	18.7	56.0
4.974000	39.2	GND	N	9.6	16.8	56.0
4.986000	39.0	GND	N	9.6	17.0	56.0

**MEASUREMENT RESULT: " Average "**

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.310000	23.3	GND	N	9.6	26.7	50.0
0.446000	27.8	GND	N	9.7	19.2	46.9
1.266000	27.4	GND	N	9.6	18.6	46.0
2.710000	21.2	GND	N	9.6	24.8	46.0
4.994000	29.3	GND	N	9.6	16.7	46.0
5.314000	32.0	GND	N	9.6	18.0	50.0

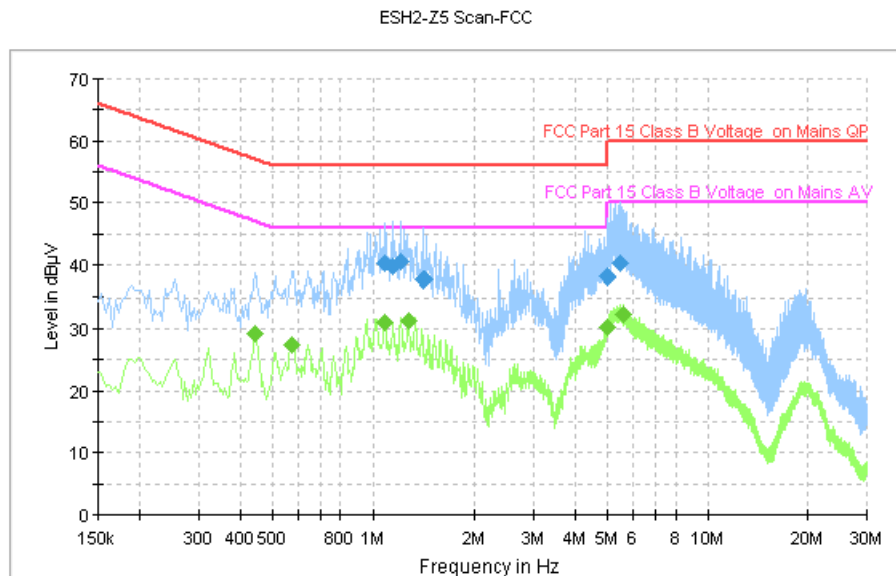


Fig.36 AC Power line Conducted Emission (Idle, AE1)

MEASUREMENT RESULT: " QuasiPeak "

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.086000	40.4	GND	N	9.6	15.6	56.0
1.154000	39.9	GND	N	9.5	16.1	56.0
1.214000	40.5	GND	N	9.5	15.5	56.0
1.414000	37.7	GND	N	9.5	18.3	56.0
4.982000	38.4	GND	N	9.6	17.6	56.0
5.438000	40.4	GND	N	9.7	19.6	60.0

MEASUREMENT RESULT: " Average "

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.442000	29.1	GND	N	9.7	17.9	47.0
0.574000	27.4	GND	N	9.7	18.6	46.0
1.086000	31.1	GND	N	9.6	14.9	46.0
1.278000	31.2	GND	N	9.6	14.8	46.0
4.982000	30.2	GND	N	9.6	15.8	46.0
5.562000	32.3	GND	N	9.7	17.7	50.0

**ANNEX C: Persons involved in this testing**

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

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