



Report No: SYBH(R) 068102007EB-4  
FCC ID: QISU5707

**FCC TEST REPORT OF  
HUAWEI WCDMA/GPRS/GSM  
Mobile Phone for 47CFR part15  
subpart C**

**M/N: U5707**

**Oct. 10, 2007**

**Reliability Laboratory of Huawei Technologies Co., Ltd.**

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**REPORT ON**

FCC 47CFR part 15 subpart C Test of HUAWEI  
WCDMA/GPRS/GSM/EDGE Mobile Phone with Bluetooth

M/N: U5707

Report No: SYBH(R) 013102007EB-2

**REGULATION**

**FCC CFR47 Part 2: Subpart J;**

**FCC CFR47 Part 15: Subpart C;**

**CONCLUSION**

There are 9 items need to be tested, 9 items have been tested. The sample of the model completely meets the requirements

**Final Judgement: Pass**

**General Manager**

2007.10.10

Date

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**Technical Responsibility  
For Area of Testing**

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# 1 Summary

The table below summarizes the measurements and results for the HUAWEI WCDMA/GPRS/GSM/EDGE Mobile Phone with Bluetooth-U5707. Detailed results and descriptions are shown in the following pages.

Table 1 Summary of results

<b>FCC Measurement Specification</b>	<b>Description</b>	<b>Result</b>
15.247 a (1)	20dB bandwidth measurement	PASS
15.247 a (1)	Carrier frequency separation measurement	PASS
15.247 a (1) iii	Number of hopping channel	PASS
15.247 a (1) iii	Time of occupancy	PASS
15.247 b (1)	Peak output power	PASS
15.247 d	Band edge compliance measurement	PASS
15.247 d	Conducted RF spurious	PASS
15.247 d / 15.205 & 15.209	Radiated spurious emission & Radiated restricted band measurement	PASS
15.207	Conducted emission test for power port	PASS

## 2 Product Description

### 2.1 Production Information

#### 2.1.1 General Description

Huawei WCDMA/GPRS/GSM Mobile Phone U5707 is subscriber equipment in the WCDMA/GSM system. The frequency band is WCDMA/GSM/DCS/PCS. The Mobile Phone implements such functions as RF signal receiving / Transmitting, WCDMA protocol processing, voice, video and MMS service etc. Externally it provides micro SD card interface, earphone port(to provide voice service), USIM card interface .It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet with a PC, or to exchange data with other Bluetooth devices.

#### 2.1.2 Support function and Service

The Mobile Phone U5707 support the function and service as follows:

Table 2 Service and Test mode List

Service Name	Characteristic	Corresponding Test Mode	Note
Data and Voice	Modulation: GFSK	TM1	

### 2.2 Modification Information

For original equipment, following table is not application.

Table 3 Modification Information

Model Number	Board/Module	Original Version	New Version	Modify Information
Not applicable!				

### **3 Test Site Description**

The test site of:

***Huawei Technologies Co. Ltd.  
P.O. Box 518129  
Huawei base, bantian,  
Longgang District, Shenzhen, China***

The test site description has been submitted to  and registration granted under the registration number **97456** on March 11, 2003. The test site has been accredited by



and the accredited number is **2174.01** in Jan of 2004.

#### **3.1 Testing Period**

The test have been performed during the period of

Oct. 07, 2007 to Oct.09, 2007

#### **3.2 General Set up Description**

The Bluetooth hopping frequency system of Mobile Phone U5707 can Support 2.4GHz Band. For compliance with FCC regulation 47CFR part15 subpart C, we set the mobile phone as following test mode to do all compliance tests.

**Bluetooth MODE:**

**TM1:** GFSK Modulation

## 4 Product Description

### 4.1 Technical Characteristics

#### 4.1.1 Frequency Range

Table 4 Frequency Range

Uplink band:	2400 to 2483.5 MHz	
Downlink band:	2400 to 2483.5 MHz	
Hop frequency support:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO

#### 4.1.2 Channel Spacing / Separation

Table 5 Channel Spacing / Separation

Channel spacing:	1 MHz
Channel separation:	1 MHz

#### 4.1.3 Type of Emission

Table 6 Type of Emission

Emission Designation:	-
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According to CFR 47 (FCC) part 2, subpart C, section 2.201 and 2.202

#### 4.1.4 Antenna Information

Table 7 Antenna Information

Type:	Integrated / Internal
Maximum Gain(dBi):	0.09 (from 2400MHz to 2500MHz)

#### 4.1.5 Environmental Requirements

Table 8 Environmental Requirements

Minimum temperature:	- 10 °C
Maximum temperature:	+ 55 °C
Relative Humidity:	5%-95%

#### 4.1.6 Power Source

Table 9 Power Source

AC voltage nominal:	~120V
AC voltage range	~100V-240V
AC current maximal:	650mA

#### 4.1.7 Tune-up Procedure

According to CFR (FCC) part 2, subpart 2, section 2.1033(c) (9).

Please reference the document Tune-up Procedure in TCF.

#### 4.1.8 Applied DC Voltages and Currents

According to CFR (FCC) part 2, subpart 2, section 2.1033(c) (8).

The voltage and current in the final RF stage is:

Table 10 Applied DC Voltages and Currents

Voltage:	 +2.8V
Current:	45mA According to CFR (FCC) part 2, subpart 2, section 2.1033(c) (8)

## 4.2 EUT Identification List

### 4.2.1 Board Information

Table 11 Board Information

WCDMA/GPRS/GSM Mobile Phone		
U5707		
Board and Module		
Equipment Designation / Description	Serial Number	Remarks
-Main board	U720H-12	HD1U720J VER.C
-Battery	FMT761001371L	U5707

### 4.2.2 Adapter Technical Data

Not Applicable.

### 4.2.3 Battery Technical Data

Not Applicable.

### 4.2.4 FCC Identification

**Grantee Code:** QIS  
**Product Code:** U5707  
**FCC Identification:** QISU5707

## 5 Main Test Instruments

Table 12 Main Test Equipments

Equipment Description	Manufacturer	Model	Serial Number	Calibrated until (MM.DD.YYYY)
Signal Analyzer	R&S	FSQ 40	100025	09.05.2008
Test Receiver Display Unit	R&S	ESMI 804.8932.52	829214/011	04.22.2008
Test Receiver RF Unit	R&S	ESMI 1032.5640.53	829550/008	04.22.2008
Receiver	R&S	ESIB 26	100318	05.29.2008
Receiver	R&S	ESCS30	830245/018	05.29.2008
Pre-Amplifier	Agilent	8447D	2944A10146	05.20.2008
Pre-Amplifier	Agilent	83017A	3950M00246	02.04.2008
Loop Antenna	Schwarzbeck	FMZB1516	115	01.06.2008
BiLog Antenna	Schaffner	CBL 6112B	2536	06.07.2008
Horn Antenna	R&S	HF906 4044.4507.02	359287/005	02.15.2008
Horn Antenna	R&S	HF906 4044.4507.02	359287/006	11.09.2007
Signal Generator	R&S	SMR 40	100325	12.09.2007
Artificial Mains Network	R&S	ENV4200	100001	05.20.2008
Universal Radio Communication Tester	R&S	CMU200	108035	07.03.2008

## 6 Transmitter Measurements

### 6.1 20dB bandwidth measurement

#### 6.1.1 Test Conditions

Table 13 Test Conditions

Preconditioning:	0.5 hour
Measured at:	enclosure
Ambient temperature:	23.5°C
Relative humidity:	55%
Test Configurations:	TM1 at channel No.0、40、78

#### 6.1.2 Test Specifications and Limits

##### 6.1.2.1 Specification

CFR 47 (FCC) part 15.247 a (1) and DA 00-705

##### 6.1.2.2 Supporting Standards

Table 14 Supporting Standards:

ANSI/TIA-603-C:2004	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
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##### 6.1.2.3 Limits

Not Applicable.

#### 6.1.3 Test Method and Setup

- (a) Connect test port of mobile phone to spectrum analyzer and universal communication tester.
- (b) Set the mobile phone to transmit maximum output power at 2.4GHz and switch off frequency hopping function, then set the measured frequency number and test the 20dB bandwidth with spectrum analyzer.

**Test setup**

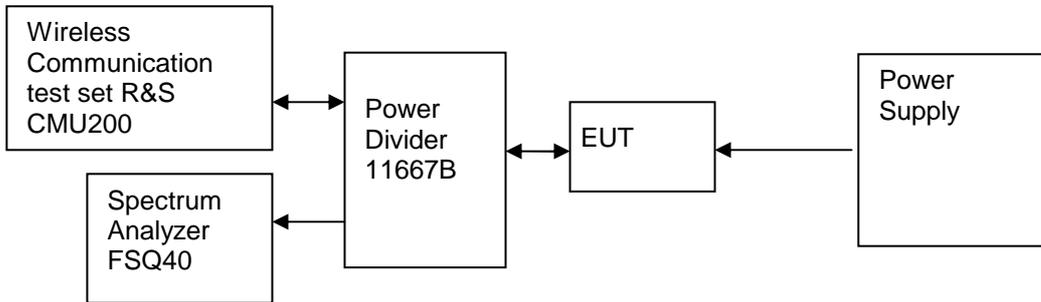


Figure 1. Test Set-up

**6.1.4 Measurement Results**

Table 15 Measurement Results

Bandwidth Type	Channel Position	Channel Number	Frequency [GHz]	Measured Bandwidth [MHz]	Result
20dB	B	0	2.402	0.878	Pass
20dB	M	40	2.442	0.871	Pass
20dB	T	78	2.480	0.875	Pass

**6.1.5 Conclusion**

The equipment **PASSED** the requirement of this clause.  
 For the measurement results refer to appendix A.

## 6.2 Carrier frequency separation measurement

### 6.2.1 Test Conditions

Table 16 Test Conditions

Preconditioning:	0.5 hour
Measured at:	enclosure
Ambient temperature:	23.5°C
Relative humidity:	55%
Test Configurations:	TM1 at channel No.37, 38, 39

### 6.2.2 Test Specifications and Limits

#### 6.2.2.1 Specification

CFR 47 (FCC) part 15.247 a (1) and DA 00-705

#### 6.2.2.2 Supporting Standards

Table 17 Supporting Standards:

ANSI/TIA-603-C:2004	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
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#### 6.2.2.3 Limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Table 18 Limits

Regulation:	$\geq 0.025$ or $2/3$ of the 20 dB bandwidth
Limit:	$2/3 \times 0.878 = 0.585$

### 6.2.3 Test Method and Setup

- (a) Connect test port of mobile phone to spectrum analyzer and universal communication tester.
- (b) Set the mobile phone to transmit maximum output power at 2.4GHz and switch off frequency hopping function, then set the measured frequency number to two adjacent channels separately and test the carrier frequency separation with spectrum analyzer.

**Test setup**

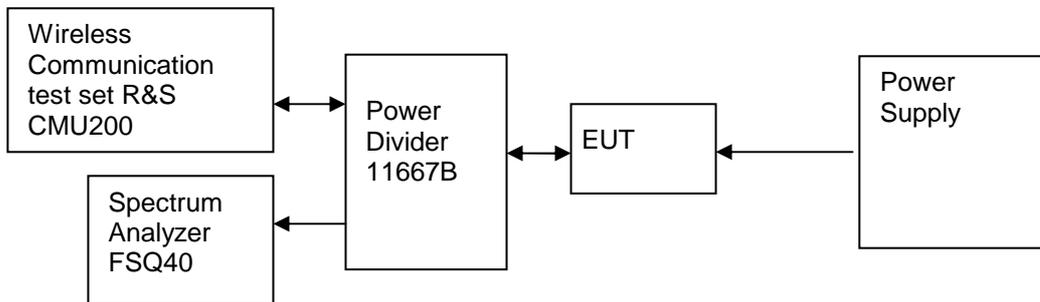


Figure 2. Test Set-up

**6.2.4 Measurement Results**

Table 19 Measurement Results

Channel No.	Frequency [GHz]	Channel No.	Frequency [GHz]	Measured frequency separation [MHz]	Limit [MHz]	Result
38	2.440	37	2.439	1.0016	0.577	Pass
38	2.440	39	2.441	1.0016	0.577	Pass

**6.2.5 Conclusion**

For the measurement results refer to appendix B.

## 6.3 Number of hopping channel

### 6.3.1 Test Conditions

Table 20 Test Conditions

Preconditioning:	0.5 hour
Measured at:	Antenna connector
Ambient temperature:	22 °C
Relative humidity:	52 %
Test Configurations:	TM1 at hopping frequency state

### 6.3.2 Test Specifications and Limits

#### 6.3.2.1 Specification

CFR 47 (FCC) part 15.247 a (1)iii and DA 00-705

#### 6.3.2.2 Supporting Standards

Table 21 Supporting Standards:

ANSI/TIA-603-C: 2004	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
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#### 6.3.2.3 Limits

Number of hopping channel should be compliance with the requirements in part15.247 a (1) iii.

Table 22 Limits

Limits	$\geq 15$ hopping frequency channel
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### 6.3.3 Test Method and Setup

- Connect test port of mobile phone to spectrum analyzer and universal communication tester.
- Set the mobile phone to transmit maximum output power at 2.4GHz and switch on frequency hopping function, then set enough count time (larger than 5000 times) to get all the hopping frequency channel displayed on the screen of spectrum analyzer.
- Count the quantity of peaks to get the number of hopping channels.

**Test setup**

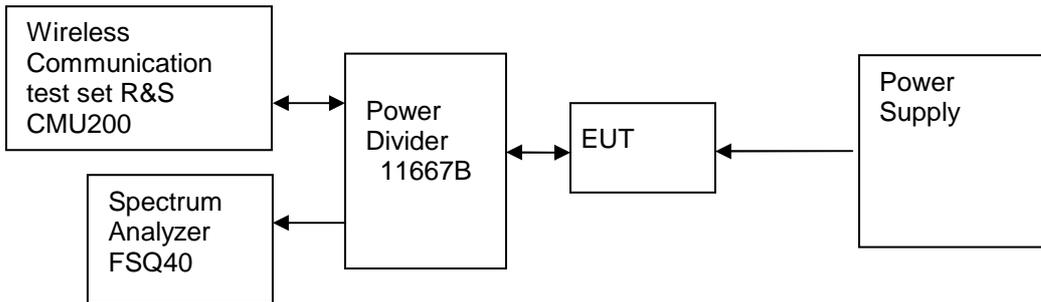


Figure 3. Test Set-up

**6.3.4 Measurement Results**

Table 23 Measurement Results

Measured frequency range [MHz]	Channel No. range	Measured Channel No.	Limit	Result
2400 to 2483.5	0-78	79	>15	Pass

**6.3.5 Conclusion**

The equipment **PASSED** the requirement of this clause.

For the measurement results refer to appendix C.

## 6.4 Time of occupancy

### 6.4.1 Test Conditions

Table 24 Test Conditions

Preconditioning:	0.5 hour
Measured at:	Antenna connector
Ambient temperature:	25 °C
Relative humidity:	55 %
Test Configurations:	TM1 at hopping frequency state

### 6.4.2 Test Specifications and Limits

#### 6.4.2.1 Specification

CFR 47 (FCC) part 15.247 a (1)iii and DA 00-705

#### 6.4.2.2 Supporting Standards

Table 25 Supporting Standards:

ANSI/TIA-603-C: 2004	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
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#### 6.4.2.3 Limits

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Table 26 Limits

Limits for time of occupancy	$\leq 0.4s$
------------------------------	-------------

### 6.4.3 Test Method and Setup

- (a) Connect test port of mobile phone to spectrum analyzer and universal communication tester.
- (b) Set the mobile phone to transmit maximum output power at 2.4GHz and switch on frequency hopping function.
- (c) Set the span of spectrum analyzer to 0 Hz, and set the resolution bandwidth to 1 MHz and the video bandwidth to 1 MHz, then get the time domain measured diagram. and set sweep time to 2 times of one burst occupancy time, and measure the time of occupancy of one burst.
- (d) Set the resolution bandwidth to 1 MHz and the video bandwidth to 3 MHz, and set the sweep time to a period (0.4 seconds multiplied by the number of hopping channels employed), and count the number of the bursts.
- (e) Calculate the time of occupancy in a period with time occupancy of a burst and quantity of bursts.

**Test setup**

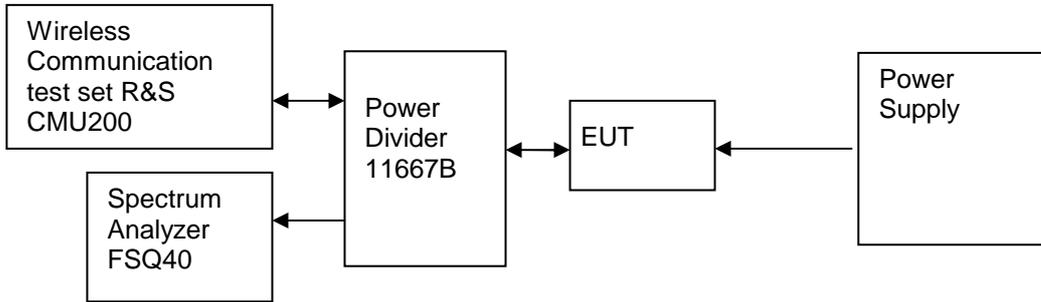


Figure 4. Test Set-up

**6.4.4 Measurement Results**

Table 27 Measurement Results

Time of Single Slot [ms]	academic Numbers of slots in a period	Time of occupied in a period [s]	Limit [s]	Result
2.97	106.7	0.317	≤ 0.4	Pass

Note:

1. The result is measured at DH5 mode in GFSK modulation, which has longest time in one transmission burst.
2. The academic numbers of burst was used in the calculation which was bigger than the actual numbers of the burst.

**6.4.5 Conclusion**

The equipment **PASSED** the requirement of this clause.  
For the measurement results refer to appendix D.

## 6.5 Peak output power

### 6.5.1 Test Conditions

Table 28 Test Conditions

Preconditioning:	0.5 hour
Measured at:	Antenna connector
Ambient temperature:	23.5°C
Relative humidity:	55 %
Test Configurations:	TM1 at channel No.0、40、78

### 6.5.2 Test Specifications and Limits

#### 6.5.2.1 Specification

CFR 47 (FCC) part 15.247 b (1) and DA 00-705

#### 6.5.2.2 Supporting Standards

Table 29 Supporting Standards:

ANSI/TIA-603-C: 2004	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
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#### 6.5.2.3 Limits

Compliance with part 15.247 b (1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watt.

Table 30 Limits

2.4GHz and 5.8GHz hopping frequency system	1 Watt / 30 dBm
Other frequency hopping systems	0.125 Watts / 21 dBm

### 6.5.3 Test Method and Setup

- (a) Connect test port of mobile phone to spectrum analyzer and universal communication tester.
- (b) Set the mobile phone to transmit maximum output power at 2.4GHz and switch off frequency hopping function.
- (c) Then set the mobile phone to transmit at high, middle and low frequency and measure the conducted output power separately.

**Test setup**

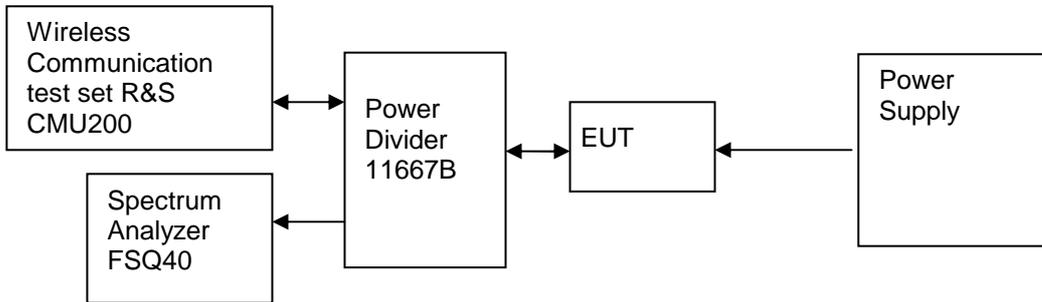


Figure 5. Test Set-up

**6.5.4 Measurement Results**

Table 31 Measurement Results

Channel	Channel No.	Center Freq.[MHz]	Meas. Level (Cond.) [dBm]	Limit [dBm]	Result
Top	0	2402	-1.88	< 30	Pass
Middle	40	2442	-1.18	< 30	Pass
Bottom	78	2480	0.40	< 30	Pass

**6.5.5 Conclusion**

The equipment **PASSED** the requirement of this clause.  
 For the measurement results refer to appendix E.

## 6.6 Band edge spurious emission

### 6.6.1 Test Conditions

Table 32 Test Conditions

Preconditioning:	0.5 hour
Measured at:	Antenna connector
Ambient temperature:	20°C
Relative humidity:	50 %
Test Configurations:	TM1 at channel No. 0, 78 and frequency hopping state

### 6.6.2 Test Specifications and Limits

#### 6.6.2.1 Specification

CFR 47 (FCC) part 15.247 d and DA 00-705

#### 6.6.2.2 Supporting Standards

Table 33 Supporting Standards:

ANSI/TIA-603-C: 2004	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
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#### 6.6.2.3 Limits

Compliance with part 15.247 (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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

Table 34 Limits

Band edge spurious:	20 dBc/100kHz
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### 6.6.3 Test Method and Setup

- Connect test port of mobile phone to spectrum analyzer and universal communication tester
- Set the mobile phone to transmit maximum output power at 2.4GHz and switch off frequency hopping function.
- Then set the mobile phone to transmit at high and low frequency and measure the conducted band edge spurious separately.
- Switch on the frequency hopping function, and repeat above measurement.

**Test setup**

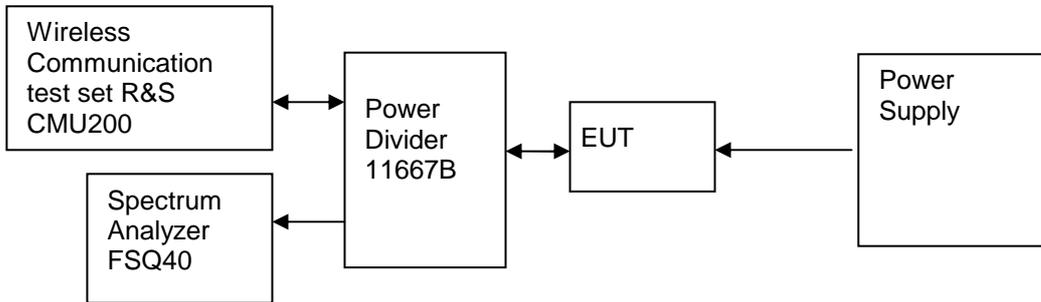


Figure 6. Test Set-up

**6.6.4 Measurement Results**

Table 35 Measurement Results

	Channel No.	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max. Spurious Level [dBm]	Limit [dBm]	Result
Low Edge	0	2402	-2.08	Off	-41.13	-22.08	Pass
	-	-	-2.56	On	-43.73	-22.56	Pass
High Edge	78	2480	0.29	Off	-38.53	-19.71	Pass
	-	-	-0.33	On	-42.41	-20.33	Pass

**6.6.5 Conclusion**

The equipment **PASSED** the requirement of this clause.  
 For the measurement results refer to appendix F.

## 6.7 Conducted RF spurious

### 6.7.1 Test Conditions

Table 36 Test Conditions

Preconditioning:	0.5 hour
Measured at:	enclosure
Ambient temperature:	22 °C
Relative humidity:	53 %
Test Configurations:	TM1 at channel No.0、40、78

### 6.7.2 Test Specifications and Limits

#### 6.7.2.1 Specification

CFR 47 (FCC) part 15.247 d and DA 00-705

#### 6.7.2.2 Supporting Standards

Table 37 Supporting Standards:

ANSI/TIA-603-C: 2004	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
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#### 6.7.2.3 Limits

Compliance with part 15.247 (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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

Table 38 Limits

Band edge spurious:	20 dBc/100kHz
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### 6.7.3 Test Method and Setup

- (a) Connect test port of mobile phone to spectrum analyzer and universal communication tester
- (b) Set the mobile phone to transmit maximum output power at 2.4GHz and switch off frequency hopping function.
- (c) Then set the mobile phone to transmit at high, middle and low frequency and measure the conducted band edge spurious separately.
- (d) Switch on the frequency hopping function, and repeat above measurement.

**Test setup**

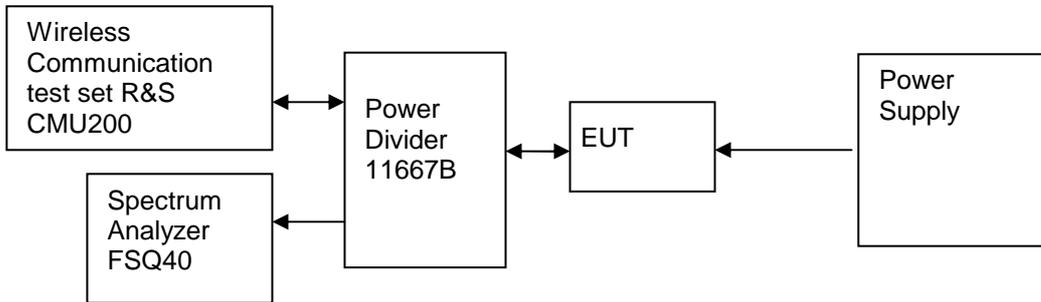


Figure 7. Test Set-up

**6.7.4 Measurement Results**

**6.7.4.1 Measurement Results**

Table 39 Measurement Results

Test Frequency Range	Channel No.	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max. Spurious Level [dBm]	Limit [dBm]	Result
9kHz-26GHz	0	2402	-2.18	Off	-24.75	-22.18	Pass
9kHz-26GHz	40	2442	-0.99	Off	-26.07	-20.99	Pass
9kHz-26GHz	78	2480	-0.82	Off	-26.58	-20.82	Pass

**6.7.5 Conclusion**

The equipment **PASSED** the requirement of this clause.  
 For the measurement results refer to appendix G.

## 6.8 Radiated spurious emission & spurious in restricted band

### 6.8.1 Test Conditions

Table 40 Test Conditions

Preconditioning:	0.5 hour
Measured at:	Antenna connector
Ambient temperature:	25 °C
Relative humidity:	55 %
Test Configurations:	TM1 at channel No.0、40、78

### 6.8.2 Test Specifications and Limits

#### 6.8.2.1 Specification

CFR 47 (FCC) part 15.247 d, 15.205 & 15.209 and DA 00-705

#### 6.8.2.2 Supporting Standards

Table 41 Supporting Standards:

ANSI/TIA-603-C: 2004	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
ANSI C63.4: 2003	Methods of Measurement of Radio-Noise Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

#### 6.8.2.3 Limits

According to part 15.247 d / 15.205 & 15.209, all spurious emission in the frequency range from 30MHz to 10<sup>th</sup> harmonics of carrier frequency should be meet the requirement of following table.

Table 42 Limits

Frequency (MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance (meters)	Detector
30 – 88	100	40	3	QP
88 – 216	150	43.5	3	QP
216 – 960	200	46	3	QP
960 -1000	500	54	3	QP
Above 1000	500	54	3	PK

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table 42).

### 6.8.3 Test Method and Setup

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4 (2003). The EUT was set-up on insulator 80cm above the Ground Plane. The set-up and test methods were according to ANSI C63.4. The Radiated Disturbance measurements were made using a Rohde and Schwarz Test Receiver and control software.

A preliminary scan and a final scan of the emissions were made by using test script of software; the emissions were measured using a Quasi-Peak Detector below 1GHz, and PK detector above 1GHz.

The maximal emission value was acquired by adjusting the antenna height, polarisation and turntable azimuth in accordance with the software setup. Normally, the height range of antenna was 1m to 4m, the azimuth range of turntable was 0° to 360°, The receive antenna has two polarizations V and H.

Huawei Mobile Phone was communicated with the BTS simulator through Air interface. The Mobile Phone operated on the typical channel and the Mobile Phone worked in idle mode, transmitter was not work in this test.

Measurement bandwidth: 30 MHz – 1000 MHz: 120 kHz  
 Measurement bandwidth: 1000 MHz – 10<sup>th</sup> Carrier Frequency: 1 MHz

**Test set up**

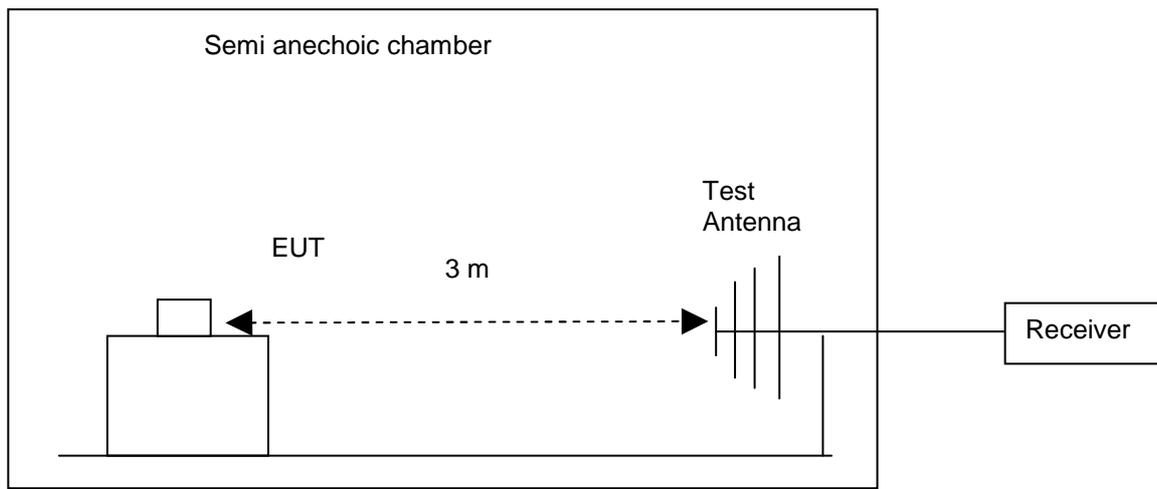


Figure 8. Test Set up

**6.8.4 Measurement Results**

**6.8.4.1 Measurement Result**

Note: The following measurement results exceed the limit line is the carrier frequency.

**Measured Result of channel: 0 (2402MHz)**

Table 43 MEASUREMENT RESULT

Frequency (MHz)	Level (dBμV/m)	Transd (dB)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
30.600000	33.70	-3.6	40.0	6.3	183.0	194.00	HORIZONTAL
59.280000	27.00	-16.4	40.0	13.0	107.0	39.00	VERTICAL
106.740000	16.60	-13.3	43.5	26.9	200.0	144.00	HORIZONTAL
249.000000	28.80	-9.3	46.0	17.2	108.0	323.00	HORIZONTAL
391.320000	37.90	-5.6	46.0	8.1	100.0	24.00	HORIZONTAL
462.480000	36.10	-4.6	46.0	9.9	199.0	262.00	HORIZONTAL
1100.000000	41.20	-6.5	54.0	12.8	100.0	270.00	VERTICAL
2402.000000	79.80	2.0	54.0	-25.8	100.0	100.00	HORIZONTAL
3750.000000	44.50	7.0	54.0	9.5	100.0	0.00	HORIZONTAL
5925.500000	49.10	12.7	54.0	4.9	200.0	300.00	VERTICAL
12921.000000	43.10	31.6	54.0	10.9	100.0	180.00	HORIZONTAL
15430.000000	48.10	38.0	54.0	5.9	220.0	270.00	VERTICAL

**Measured Result of channel: 40 (2442MHz)**

Table 44 MEASUREMENT RESULT

Frequency (MHz)	Level (dB $\mu$ V/m)	Transd (dB)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
30.600000	33.70	-3.6	40.0	6.3	183.0	194.00	HORIZONTAL
59.280000	27.00	-16.4	40.0	13.0	107.0	39.00	VERTICAL
106.740000	16.60	-13.3	43.5	26.9	200.0	144.00	HORIZONTAL
249.000000	28.80	-9.3	46.0	17.2	108.0	323.00	HORIZONTAL
391.320000	37.90	-5.6	46.0	8.1	100.0	24.00	HORIZONTAL
462.480000	36.10	-4.6	46.0	9.9	199.0	262.00	HORIZONTAL
1204.000000	42.50	-6.5	54.0	11.5	200.0	270.00	HORIZONTAL
2442.000000	77.90	2.1	54.0	-23.9	126.0	220.00	VERTICAL
3750.000000	42.00	7.0	54.0	12.0	100.0	12.00	VERTICAL
5925.500000	49.90	12.7	54.0	4.1	110.0	0.00	VERTICAL
12924.500000	43.70	31.6	54.0	10.3	300.0	270.00	HORIZONTAL
25998.000000	50.90	52.1	54.0	3.1	100.0	110.00	VERTICAL

**Measured Result of channel: 78 (2480MHz)**

Table 45 MEASUREMENT RESULT

Frequency (MHz)	Level (dB $\mu$ V/m)	Transd (dB)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
30.600000	33.70	-3.6	40.0	6.3	183.0	194.00	HORIZONTAL
59.280000	27.00	-16.4	40.0	13.0	107.0	39.00	VERTICAL
106.740000	16.60	-13.3	43.5	26.9	200.0	144.00	HORIZONTAL
249.000000	28.80	-9.3	46.0	17.2	108.0	323.00	HORIZONTAL
391.320000	37.90	-5.6	46.0	8.1	100.0	24.00	HORIZONTAL
462.480000	36.10	-4.6	46.0	9.9	199.0	262.00	HORIZONTAL
1100.000000	41.20	-6.5	54.0	12.8	170.0	270.00	VERTICAL
2480.000000	79.50	2.3	54.0	-25.5	100.0	180.00	VERTICAL
5087.500000	43.50	12.1	54.0	10.5	100.0	0.00	VERTICAL
22248.500000	49.00	48.8	54.0	5.0	200.0	200.00	VERTICAL

Table 46 Measurement Results for Band Edge(2310 MHz -2390MHz, 2483.5 MHz -2500MHz)

Channel No	Channel No	Carrier Frequency [MHz]	Max. Delta Spurious Level [dB]	Carrier Frequency Level test in 3 meters [dB $\mu$ V/m]	Band Edge Max. Spurious Level [dB $\mu$ V/m]	Limit (AV) [dB $\mu$ V/m]	Result
Low Edge	0	2310-2390	41.13	79.8	38.67	54	Pass
High Edge	78	2483.5-2500	38.53	79.5	40.97	54	Pass

Notes:

1. Band Edge Max. Spurious Level= Carrier Frequency Level test in 3 meters- Max. Delta Spurious Level;
2. Max. Delta Spurious Level is got from the Band Edge test result appendix F;
3. The Carrier Frequency Levels test in 3 meters are got from the radiated spurious emission which is appendix H;
4. Because the PK value is smaller than AV Limit line, so the AV value is certainly smaller than AV limit line.

### 6.8.5 Conclusion

The equipment **PASSED** the requirement of this clause.  
For the measurement results refer to appendix H.

## 6.9 Conducted Emission at Power Port

### 6.9.1 Test Conditions

Table 47 Test Conditions

Preconditioning:	0.5 hour
Measured at:	Power port
Ambient temperature:	23.5℃
Relative humidity:	55 %
Test Configurations:	TM1 at channel No. 40

### 6.9.2 Test Specifications and Limits

#### 6.9.2.1 Specification

CFR 47 (FCC) part 15.207 and DA 00-705

#### 6.9.2.2 Supporting Standards

Table 48 Supporting Standards:

ANSI C63.4: 2003	Methods of Measurement of Radio-Noise Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
------------------	--

#### 6.9.2.3 Limits

Compliance with part15.207, conducted emission must meet the requirement of following table.

Table 49 Limits

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

Note: \* Decreases with the logarithm of the frequency.

### 6.9.3 Test Method and Setup

The Table-top EUT was placed upon a non-metallic table 0.8 m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.4: 2003.

Conducted Disturbance at AC Port measurements were undertaken on the L and N Lines. The emissions were measured using a Quasi-Peak Detector and Average Detector.

Huawei Mobile phone was communicated with the BTS simulator through Air interface, the BTS simulator controls the Mobile Phone to transmitter the maximum power which defined in specification of product. The Mobile Phone operated on the typical channel.

Measurement bandwidth (RBW) for 150kHz to 30 MHz: 9 kHz;

**Test Set-up**

The Mobile Phone was setup in the screened chamber and operated under nominal conditions.

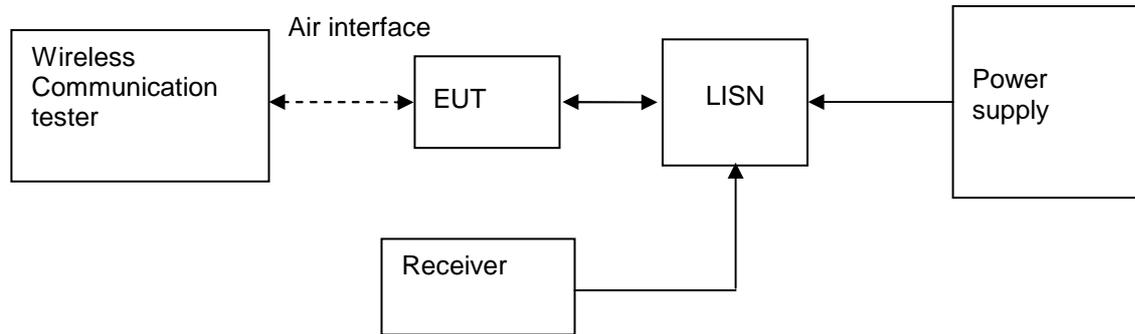


Figure 9. Test Set-up

**6.9.4 Measurement Results**

Table 50 MEASUREMENT RESULT:QP DECTER

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.330000	42.30	10.2	59	16.7	QP	L3	FLO
0.442500	42.40	10.0	57	14.6	QP	L3	FLO
1.675500	39.70	9.9	56	16.3	QP	L3	FLO
2.670000	38.50	10.1	56	17.5	QP	L3	FLO
5.482500	36.50	10.2	60	23.5	QP	L3	FLO
23.010000	31.90	15.6	60	28.1	QP	L3	FLO

Table 51 MEASUREMENT RESULT:AV DECTER

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.325500	33.10	10.2	50	16.9	AV	L3	FLO
0.393000	29.70	10.1	48	18.3	AV	L3	FLO
1.018500	26.90	9.9	46	19.1	AV	L3	FLO
3.007500	27.60	10.1	46	18.4	AV	L3	FLO
5.806500	21.70	10.2	50	28.3	AV	L3	FLO
23.095500	19.10	15.6	50	30.9	AV	L3	FLO

**6.9.5 Conclusion**

The equipment **PASSED** the requirement of this clause.  
For the measurement results refer to appendix I.

## 7 System Measurement Uncertainty

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

Table 52 System Measurement Uncertainty

Items		Extended Uncertainty
20dB bandwidth measurement	Magnitude (%)	U= 0.2%; k=2
Carrier frequency separation measurement	Magnitude (%)	U= 0.2%; k=2
Time of occupancy	Magnitude (%)	U= 0.2%; k=2
Peak output power	Power(dBm)	U=0.39dB; k=2
Band edge compliance measurement	Disturbance Power(dBm)	U= 2.0dB; k=2
Conducted RF spurious	Disturbance Power(dBm)	U= 2.0dB; k=2
Radiated spurious emission & Radiated restricted band measurement	Field strength (dB $\mu$ V/m)	U=2.2dB; k=2 U=5dB; k=2
Conducted emission test for power port	Disturbance Voltage(dB $\mu$ V)	U=4dB; k=2

## 8 Appendices

Appendix A	Measurement Results 20dB bandwidth measurement	4 pages
Appendix B	Measurement Results Carrier frequency separation measurement	2 pages
Appendix C	Measurement Results Number of hopping channel	2 pages
Appendix D	Measurement Results Time of occupancy	3 pages
Appendix E	Measurement Results Peak output power	4 pages
Appendix F	Measurement Results Band edge compliance measurement	9 pages
Appendix G	Measurement Results Conducted RF spurious	13 pages
Appendix H	Measurement Results Radiated spurious emission	7 pages
Appendix I	Measurement Results Conducted emission test for power port	2 pages
Appendix J	Photos of Test Setup	5 pages

# Appendix A

## 20dB bandwidth measurement

According to FCC Part 15.247 a (1)

# Channel 0 (2402MHz)

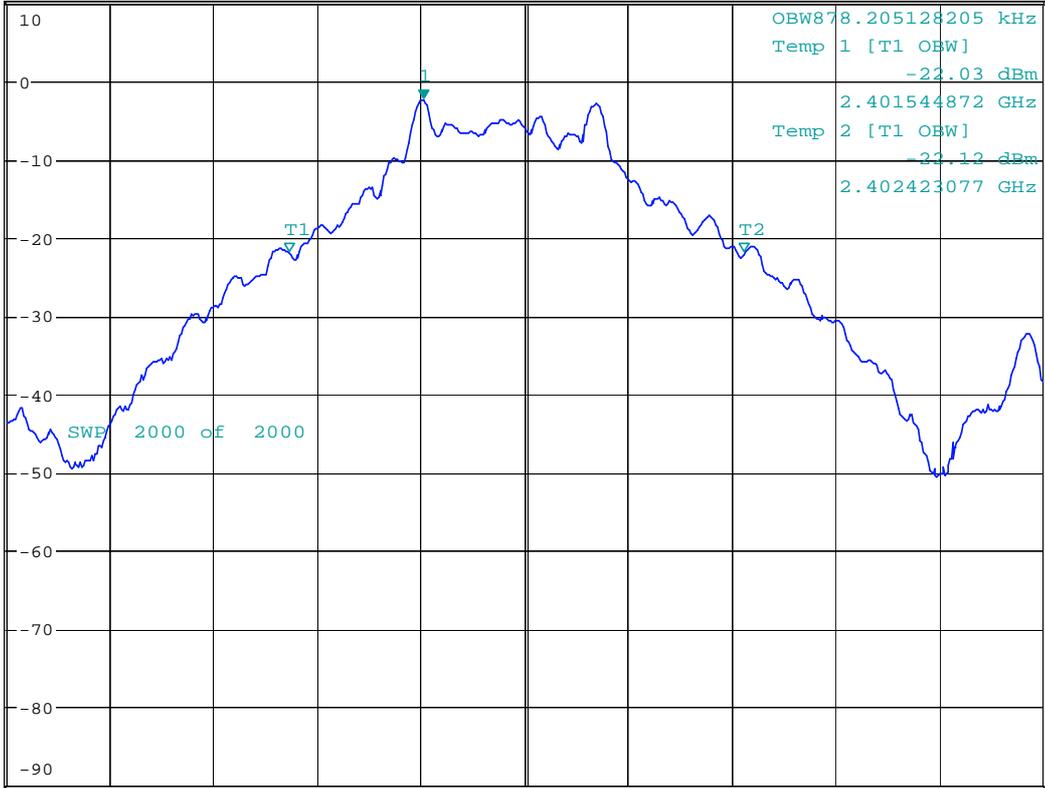


\*RBW 30 kHz      Marker 1 [T1]  
VBW 100 kHz      -2.49 dBm  
\*SWT 10 ms      2.401804487 GHz

Ref 10 dBm

Att 15 dB

1 PK  
MAXH



Center 2.402 GHz

200 kHz/

Span 2 MHz

# Channel 40 (2442MHz)

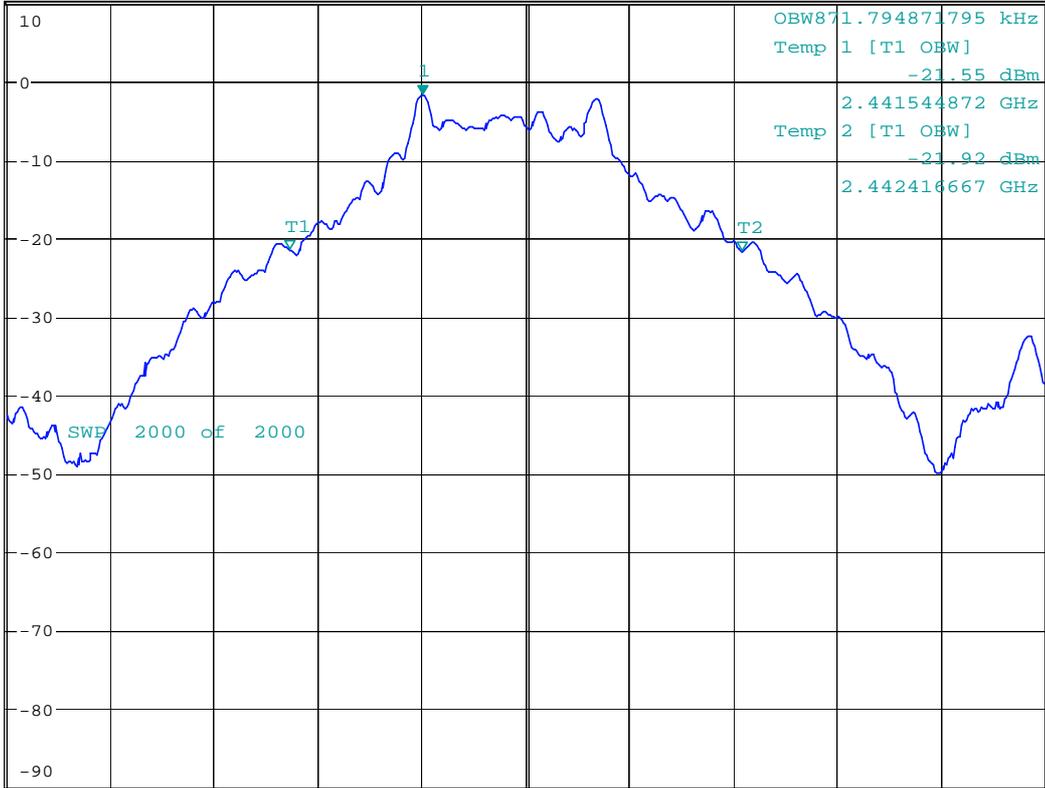


\* RBW 30 kHz      Marker 1 [T1 ]  
\* VBW 100 kHz      -1.81 dBm  
\* SWT 10 ms      2.441801282 GHz

Ref 10 dBm

Att 15 dB

1 PK  
MAXH

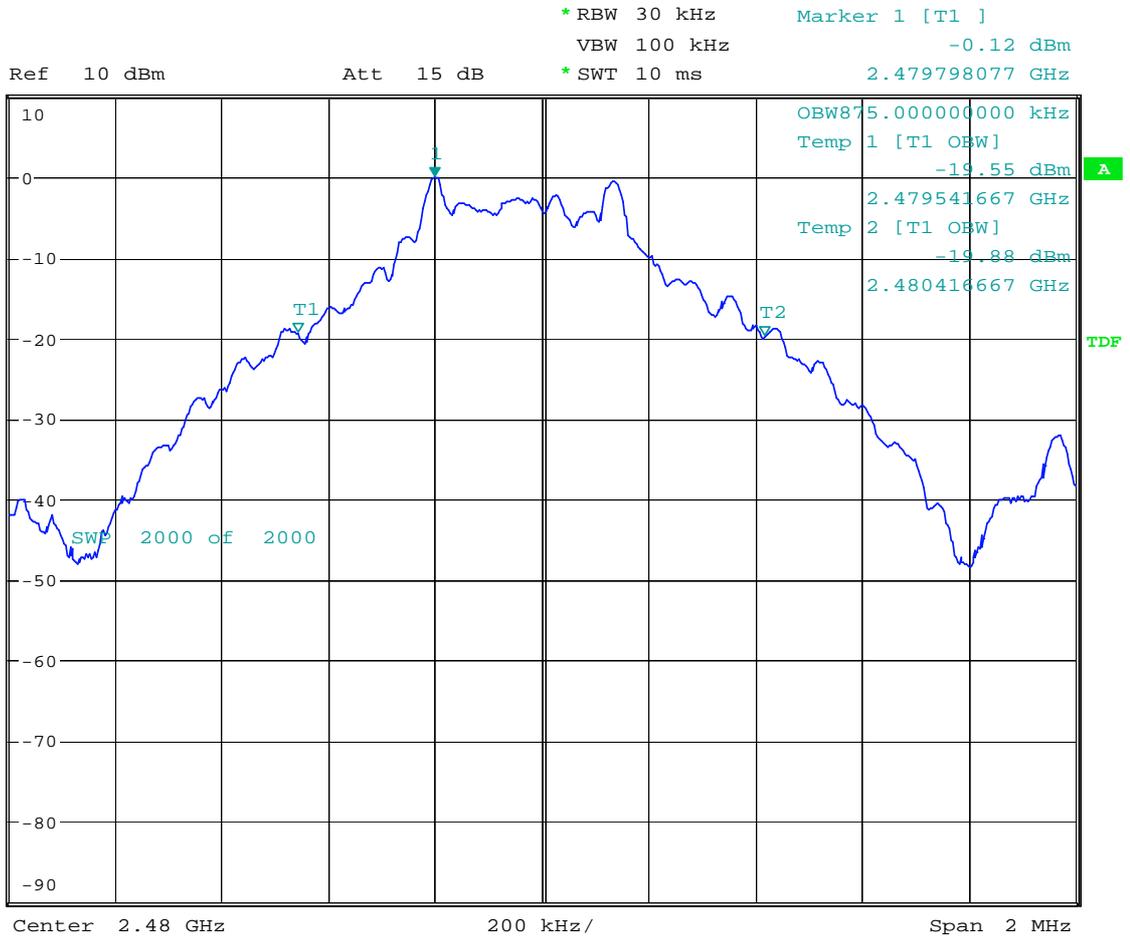


Center 2.442 GHz

200 kHz/

Span 2 MHz

# Channel 78 (2480MHz)

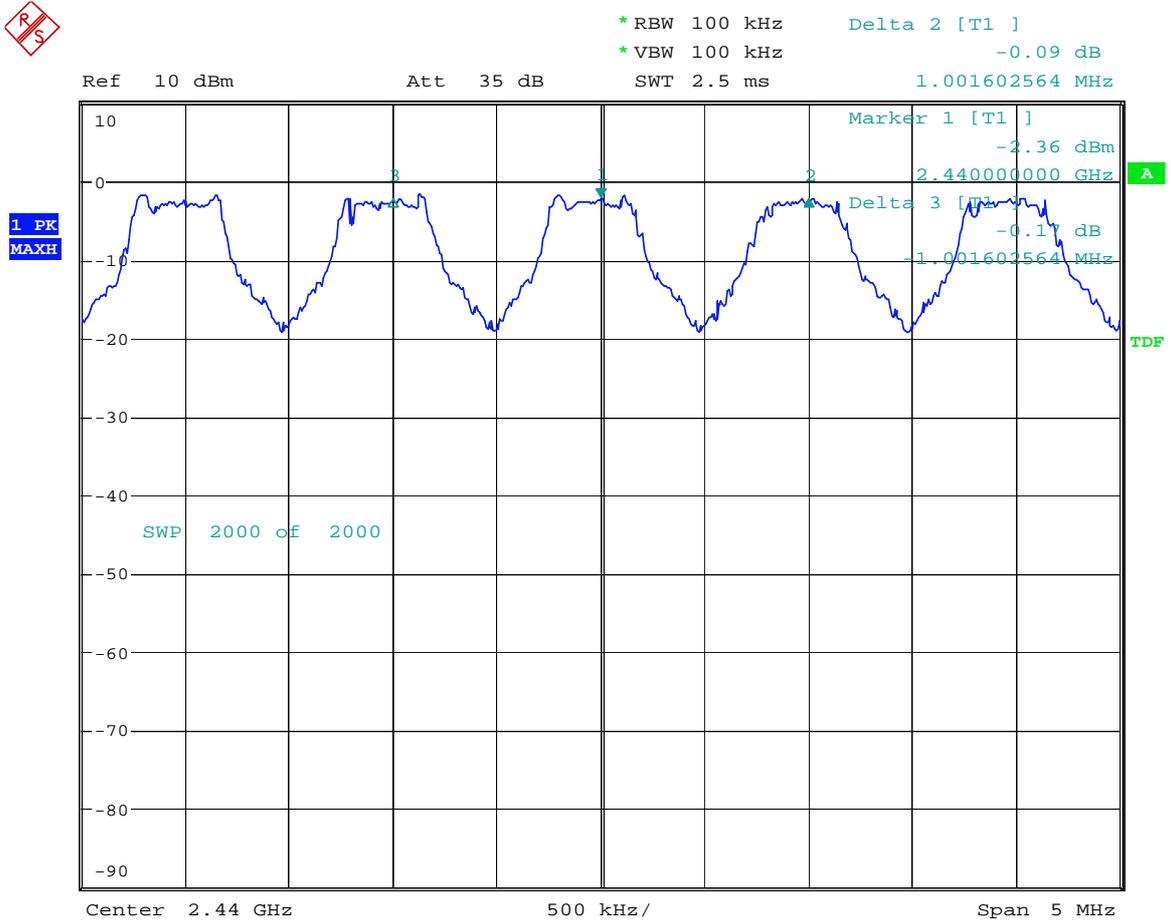


## Appendix B

# Carrier frequency separation measurement

According to FCC Part 15.247 a (1)

# Centred at Channel 39

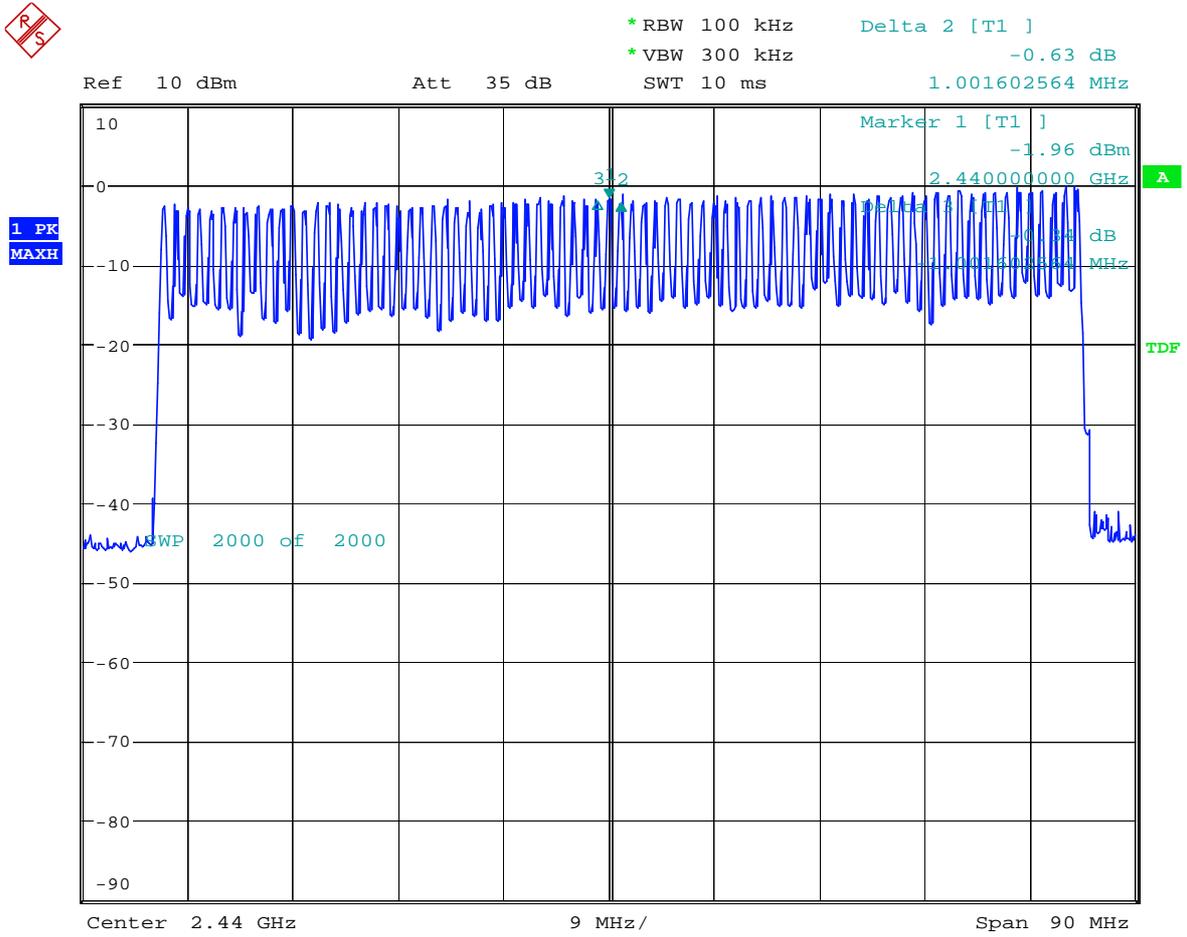


## Appendix C

### Number of hopping channel

According to FCC Part 15.247 a (1)

# Total hopping channels = 79

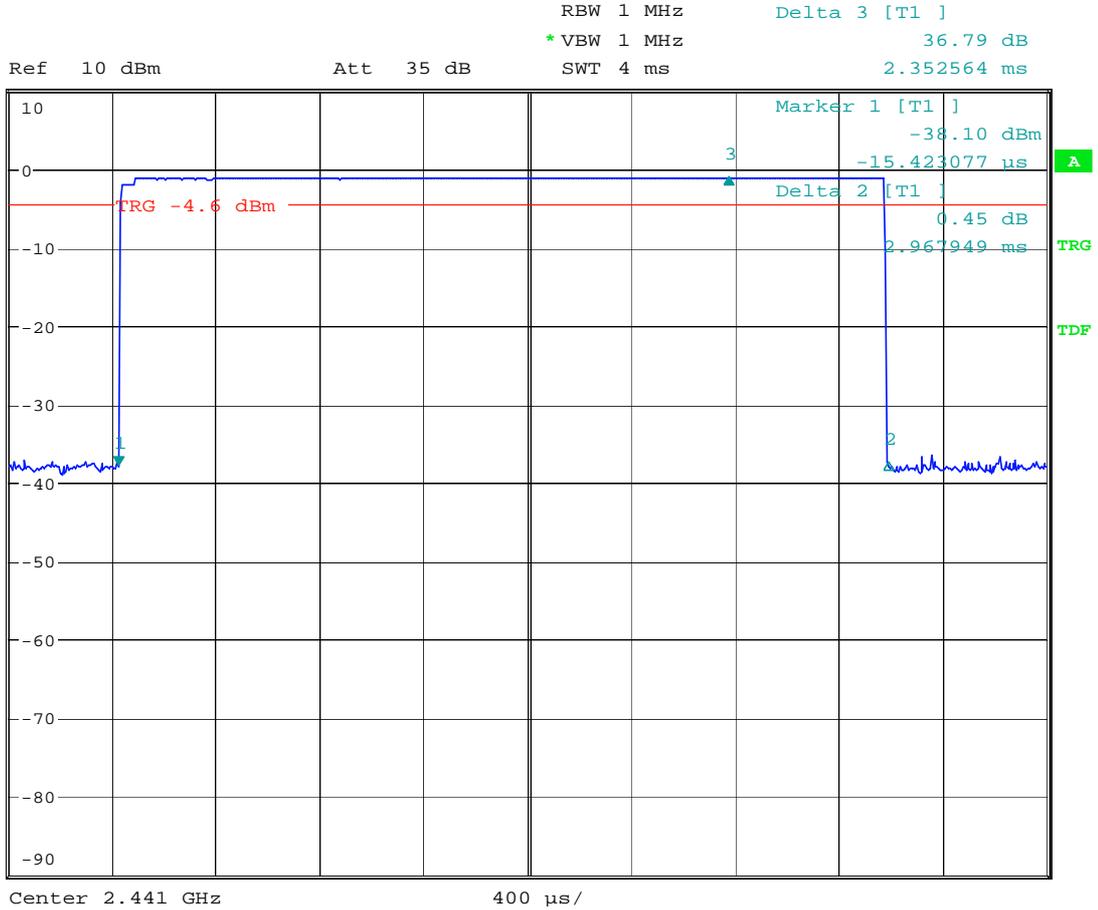


# Appendix D

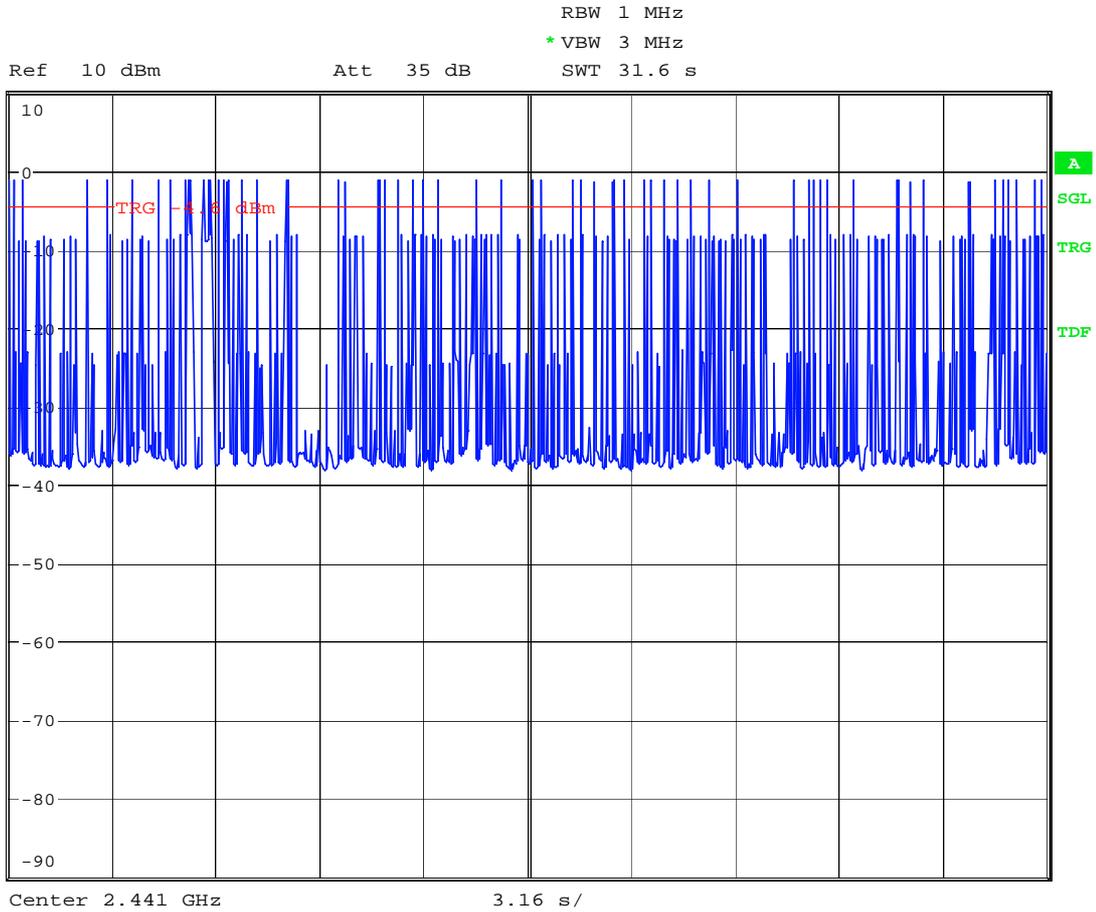
## Time of occupancy

According to FCC Part 15.247 a (1) iii

# A burst (One time slot)



# A period

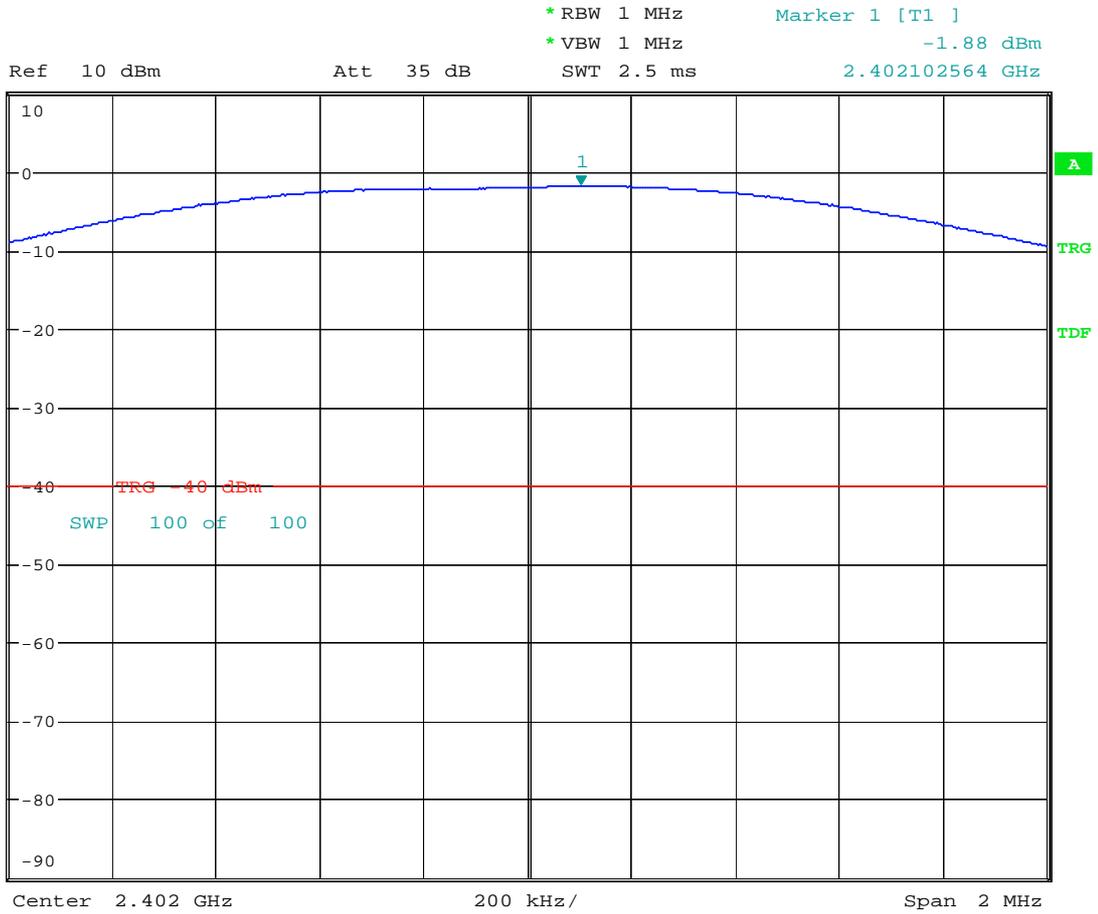


# Appendix E

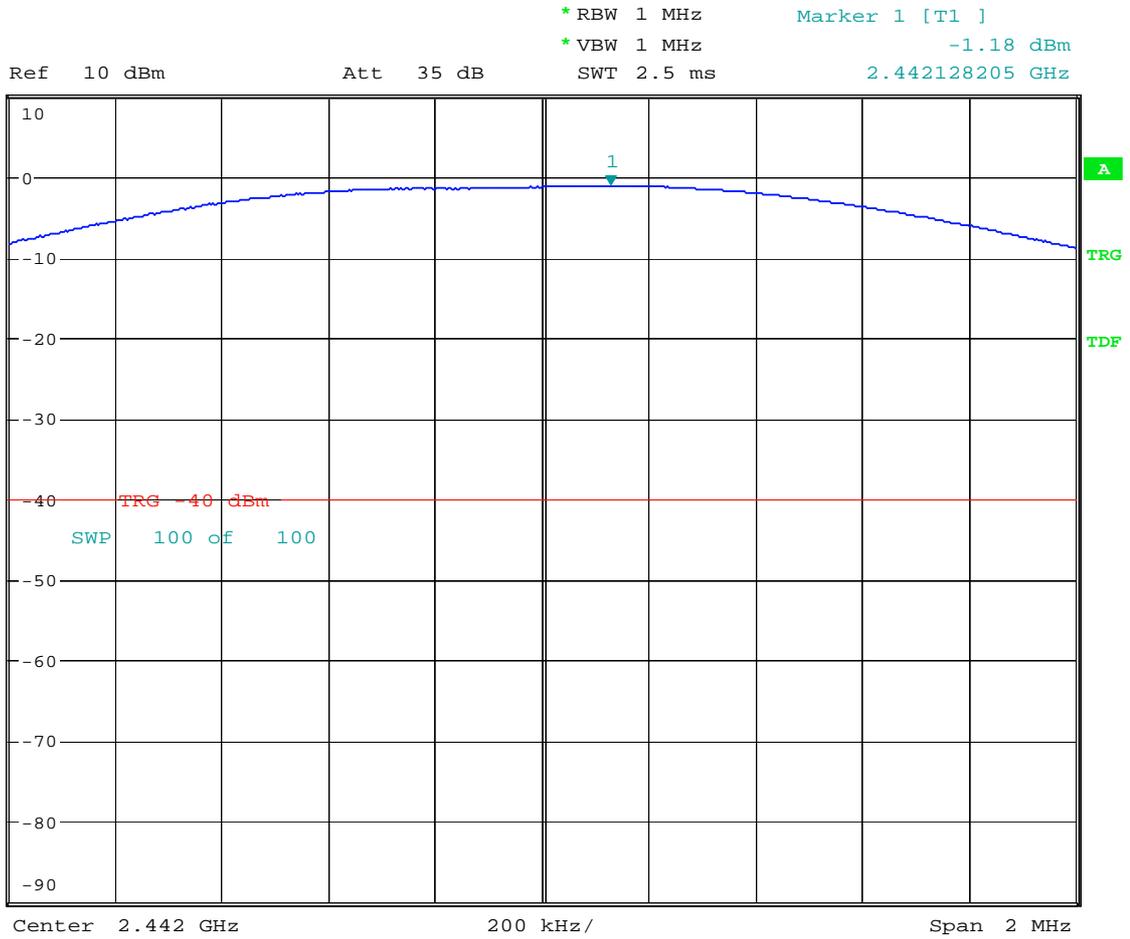
## Peak output power

According to FCC Part 15.247 b (1)

# Channel 0 (2402MHz)



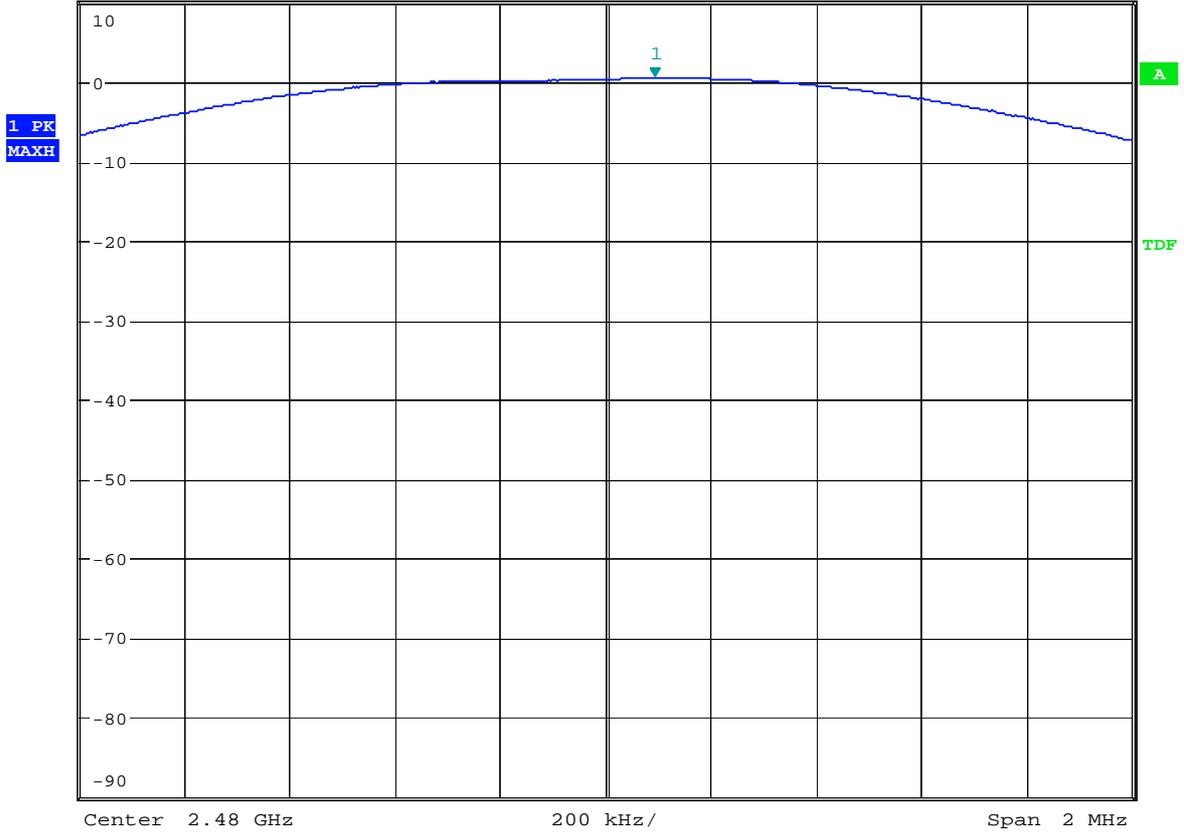
# Channel 40 (2442MHz)



# Channel 78 (2480MHz)



Ref 10 dBm Att 35 dB \*RBW 1 MHz \*VBW 1 MHz SWT 2.5 ms Marker 1 [T1] 0.40 dBm 2.480092949 GHz



# Appendix F

## Band edge spurious emission

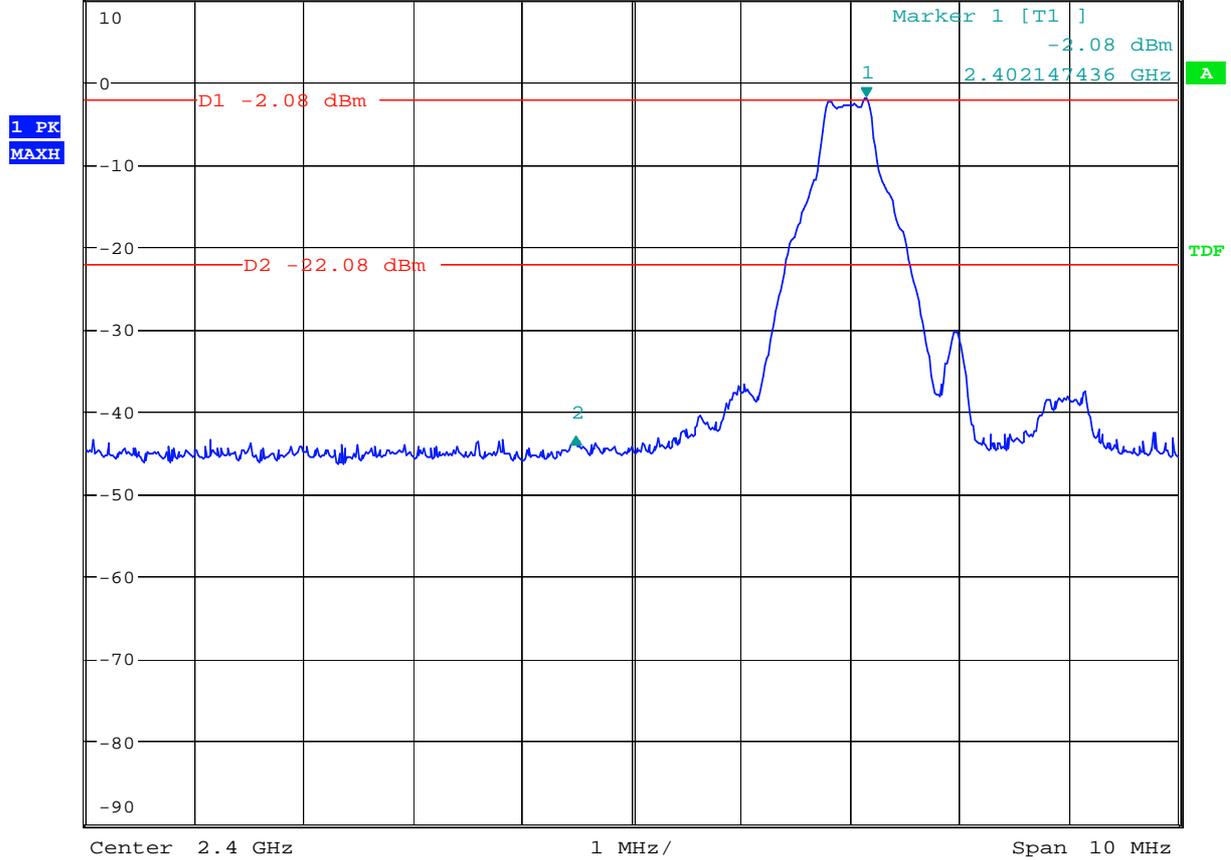
According to FCC Part 15.247 d

# Low edge (Channel 0, no hopping)

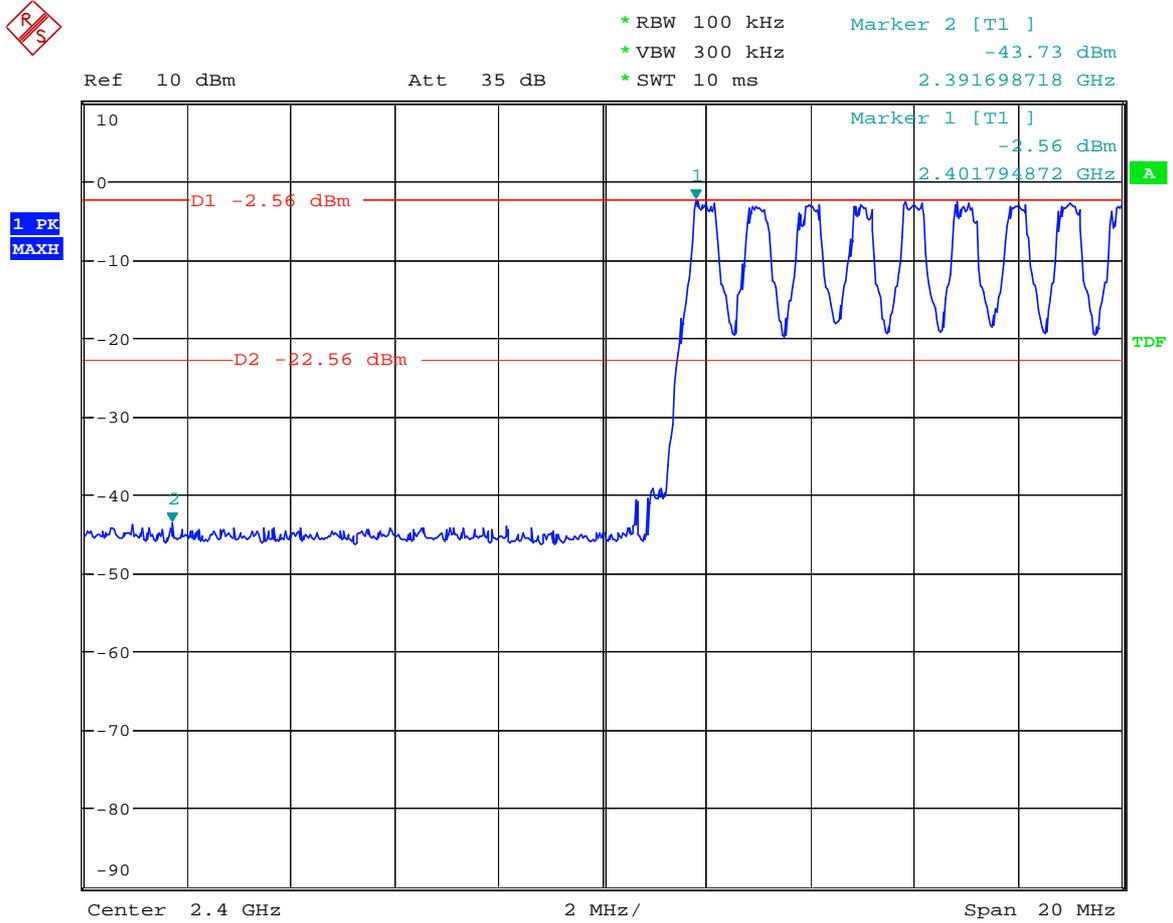


Ref 10 dBm Att 35 dB

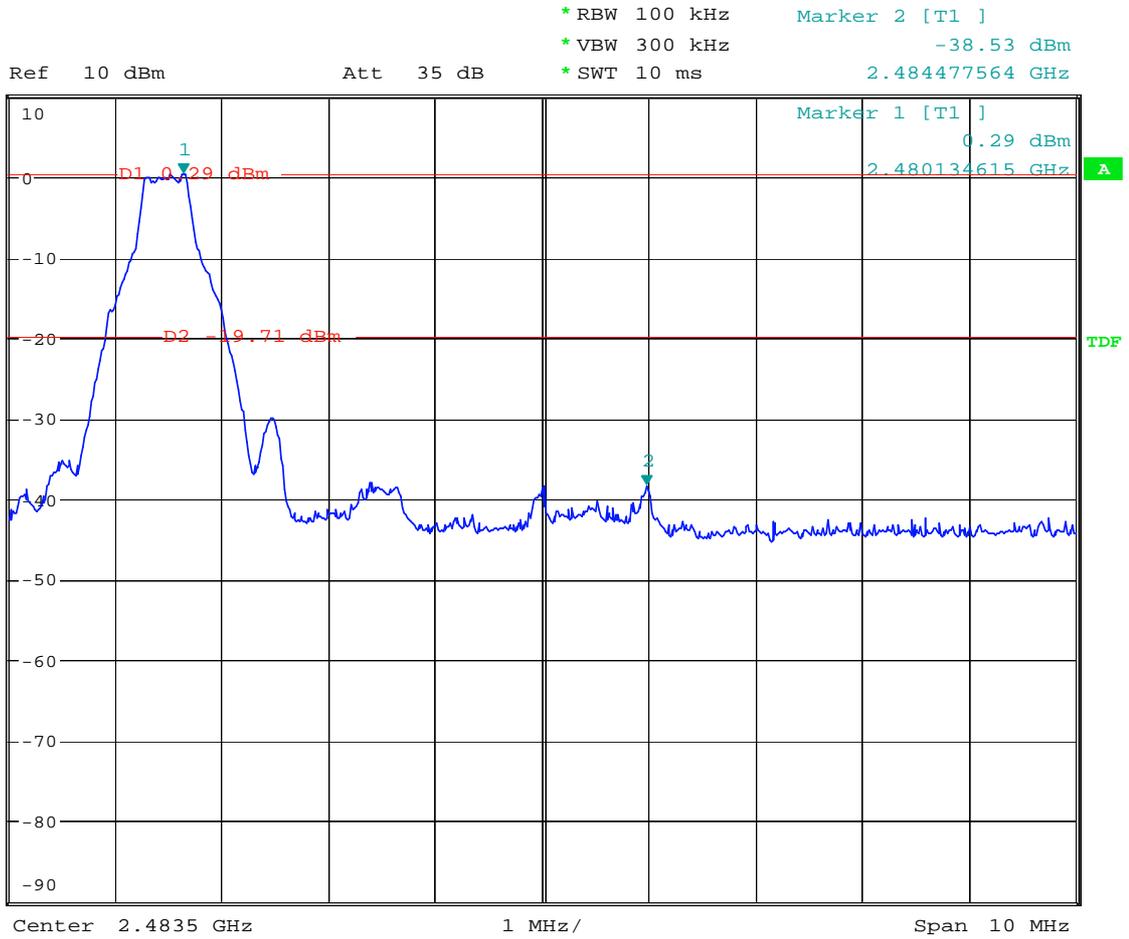
\* RBW 100 kHz Delta 2 [T1 ]  
\* VBW 300 kHz -41.13 dB  
\* SWT 10 ms -2.660256410 MHz



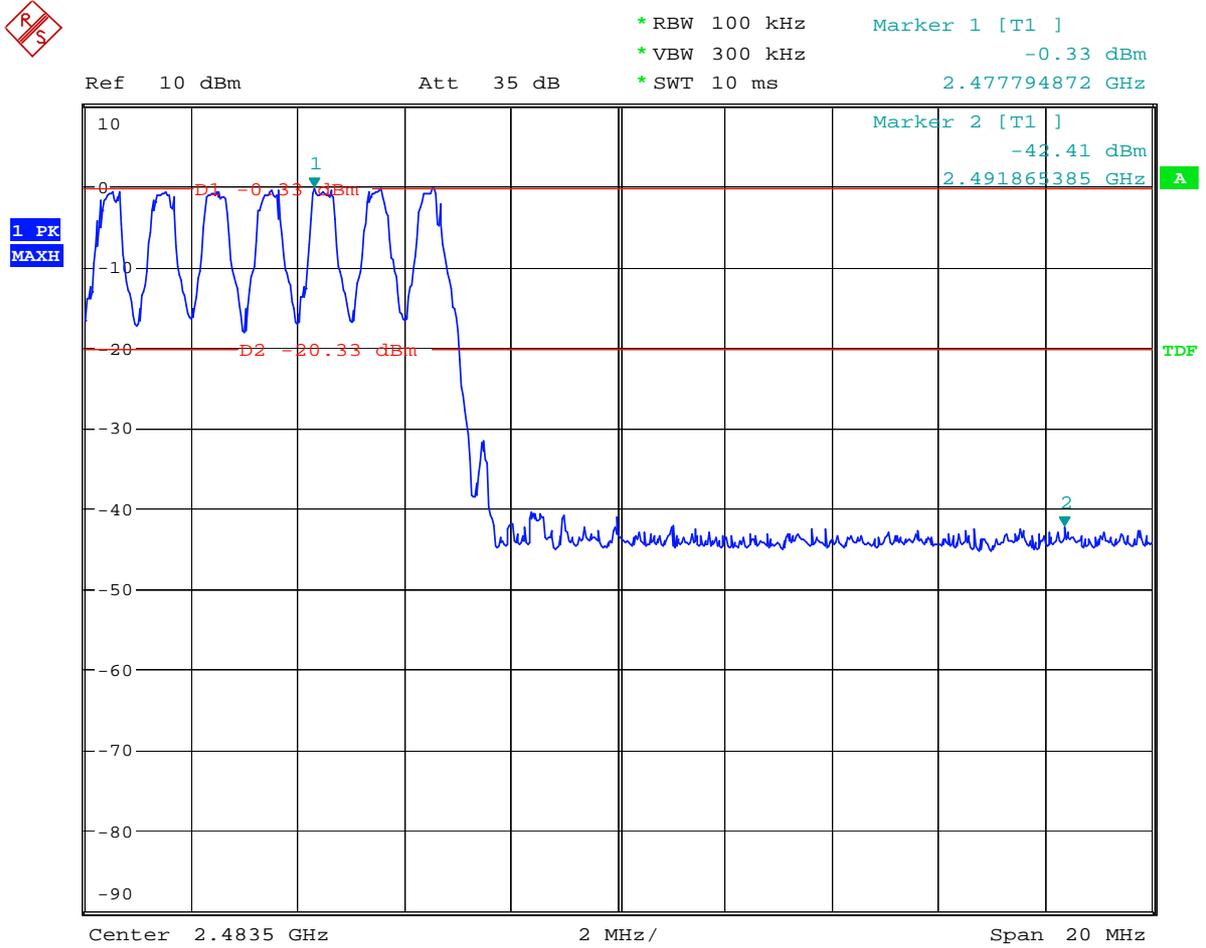
# Low edge (with hopping)



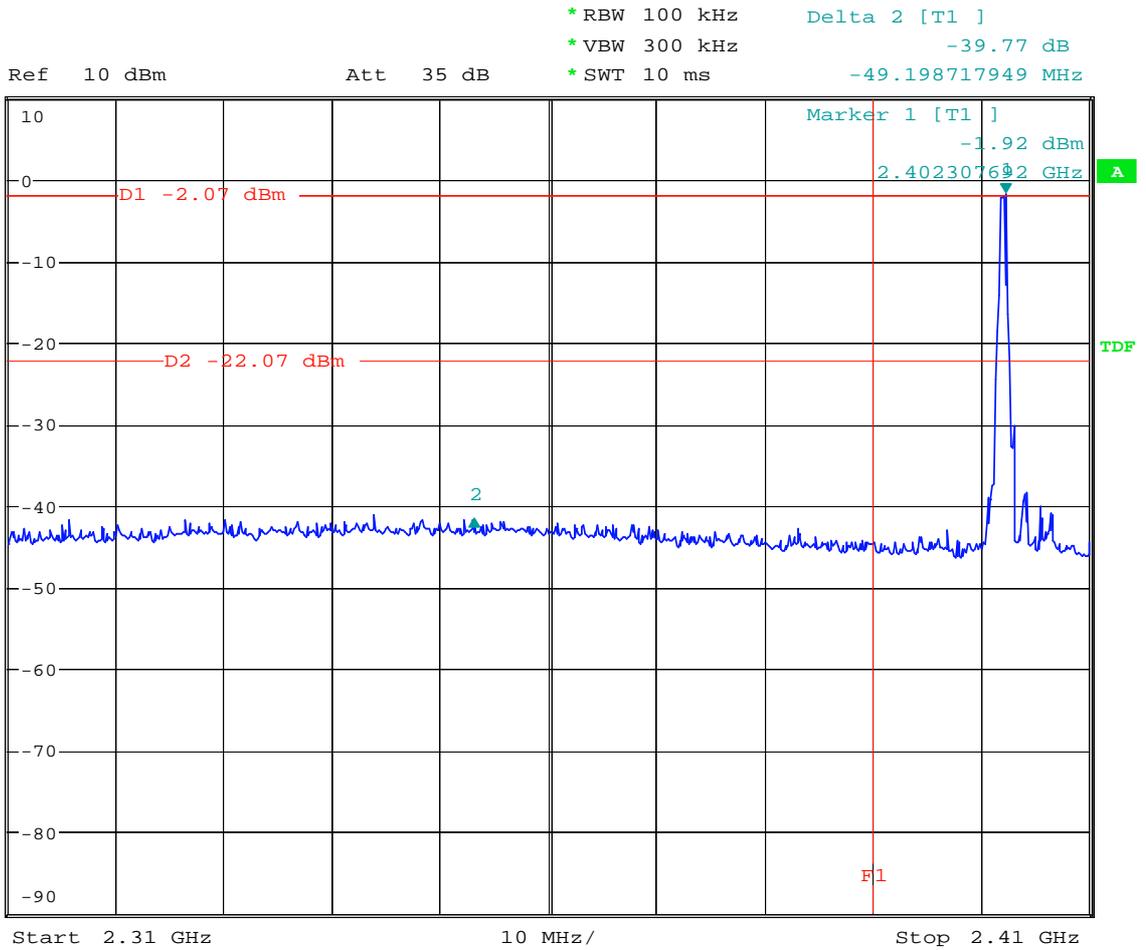
# High edge (Channel 78, no hopping)



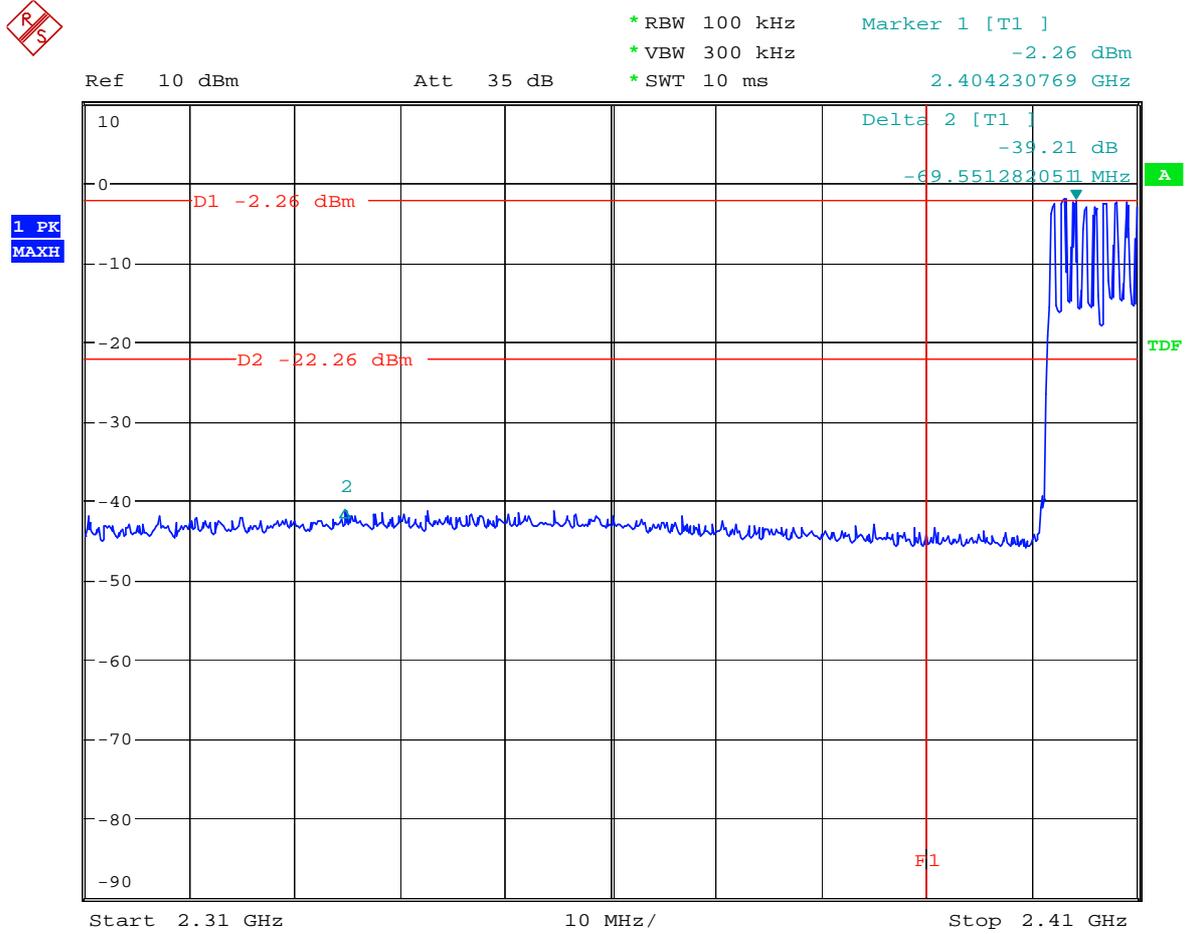
# High edge (with hopping)



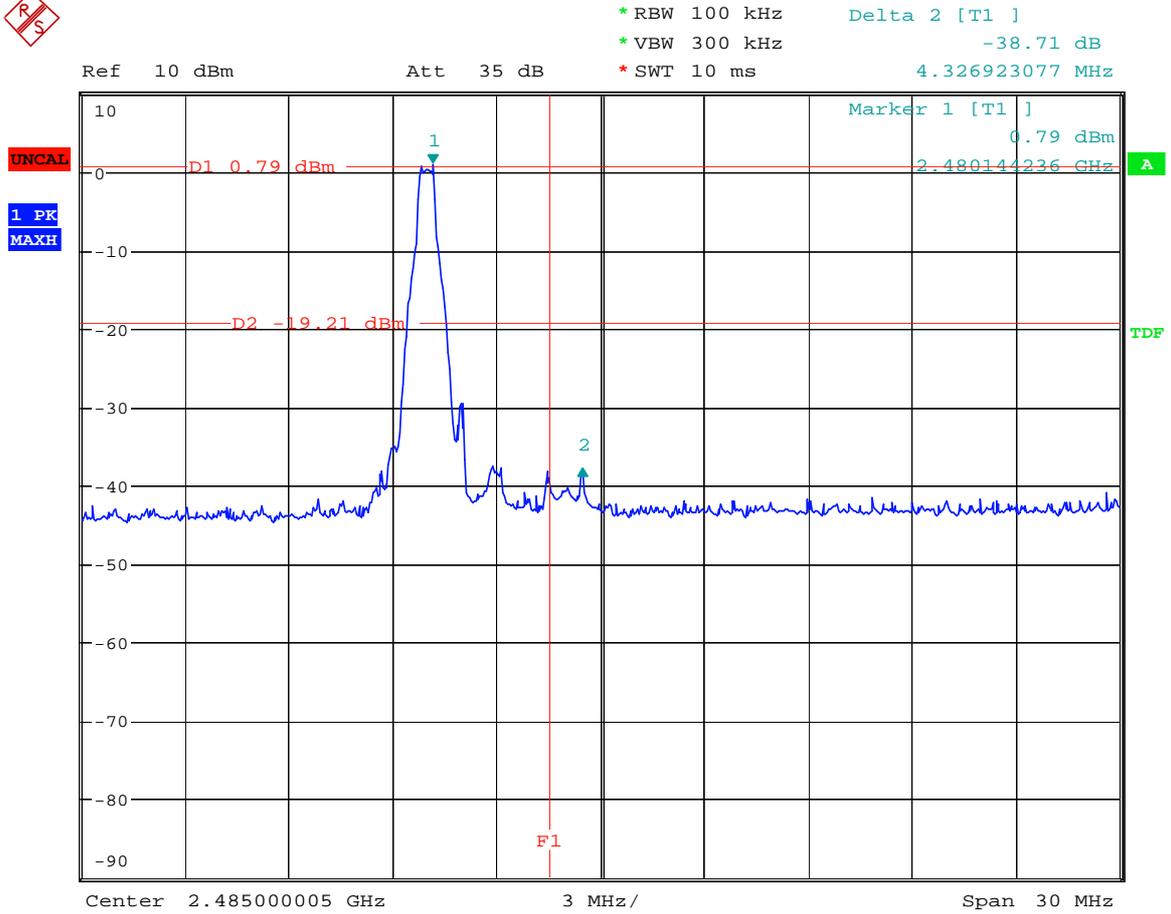
# Restrict band 2310MHz to 2390MHz (channel 0, no hopping)



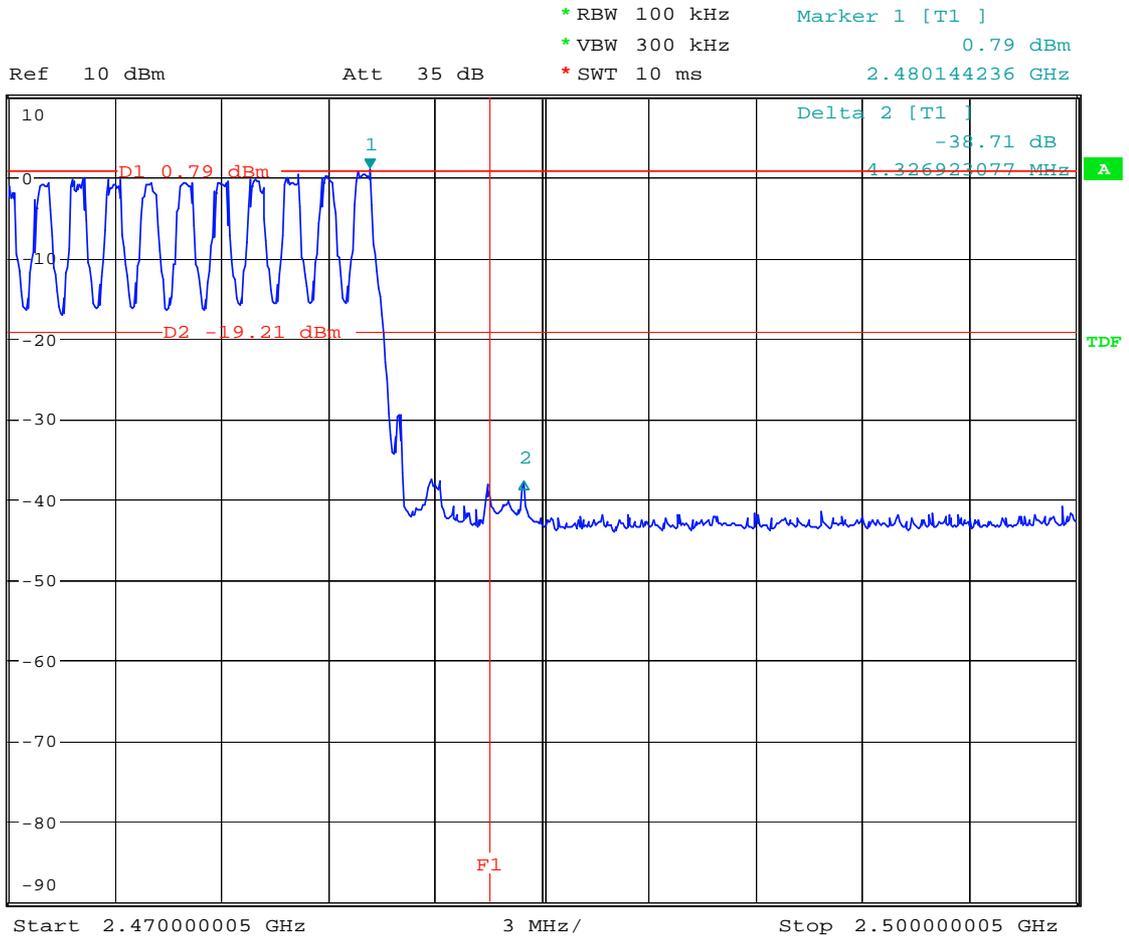
# Restrict band 2310MHz to 2390MHz (with hopping)



# Restrict band 2483.5MHz to 2500MHz (channel 78, no hopping)



# Restrict band 2483.5MHz to 2500MHz (channel 78, with hopping)



## Appendix G

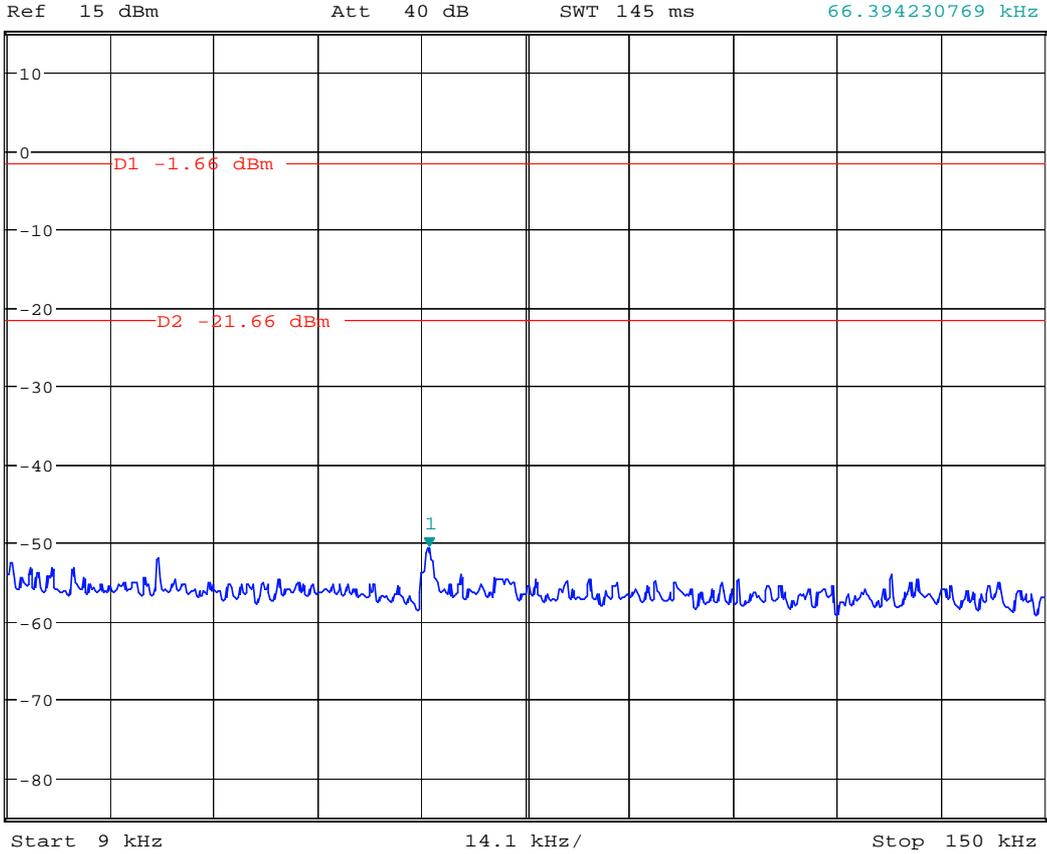
# Conducted RF spurious

According to FCC Part 15.247 d

# Channel 0

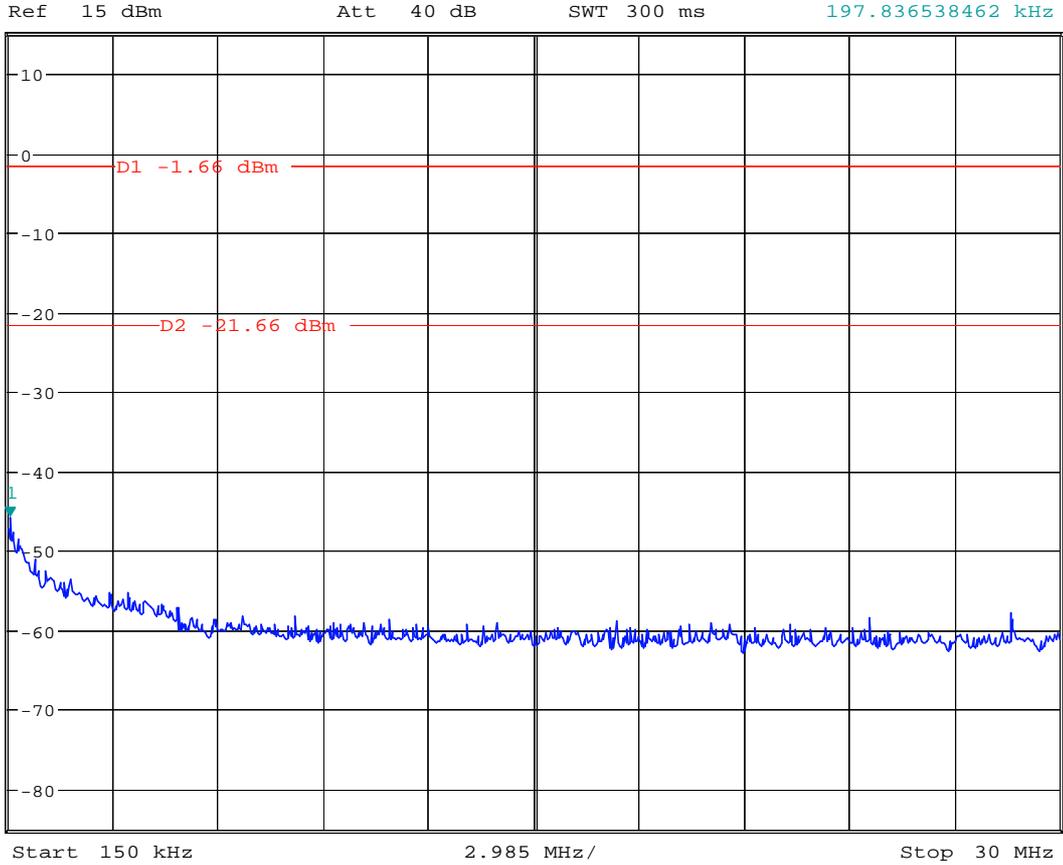


\*RBW 1 kHz      Marker 1 [T1 ]  
\*VBW 3 kHz      -50.70 dBm  
SWT 145 ms      66.394230769 kHz



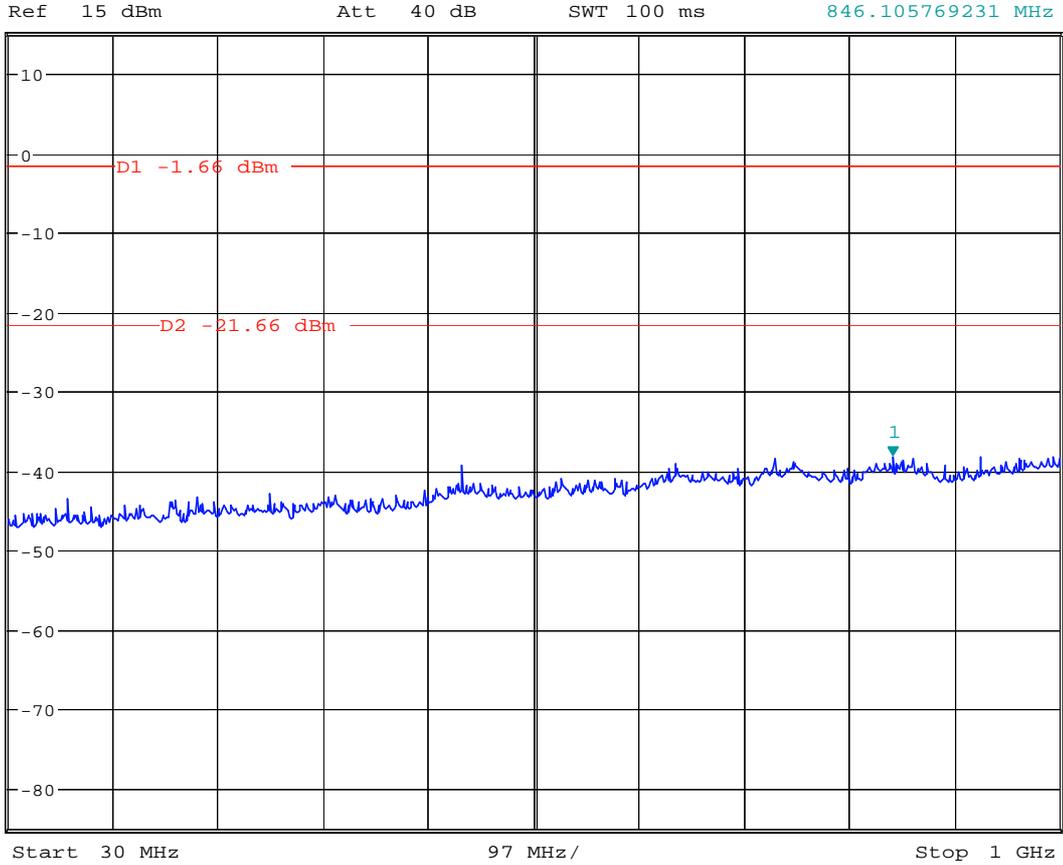


\*RBW 10 kHz      Marker 1 [T1 ]  
\*VBW 30 kHz      -45.87 dBm  
SWT 300 ms      197.836538462 kHz





\*RBW 100 kHz      Marker 1 [T1 ]  
\*VBW 300 kHz      -38.18 dBm  
SWT 100 ms      846.105769231 MHz





\*RBW 1 MHz  
VBW 3 MHz  
SWT 145 ms  
Delta 2 [T1 ]  
-24.75 dB  
23.557692308 GHz

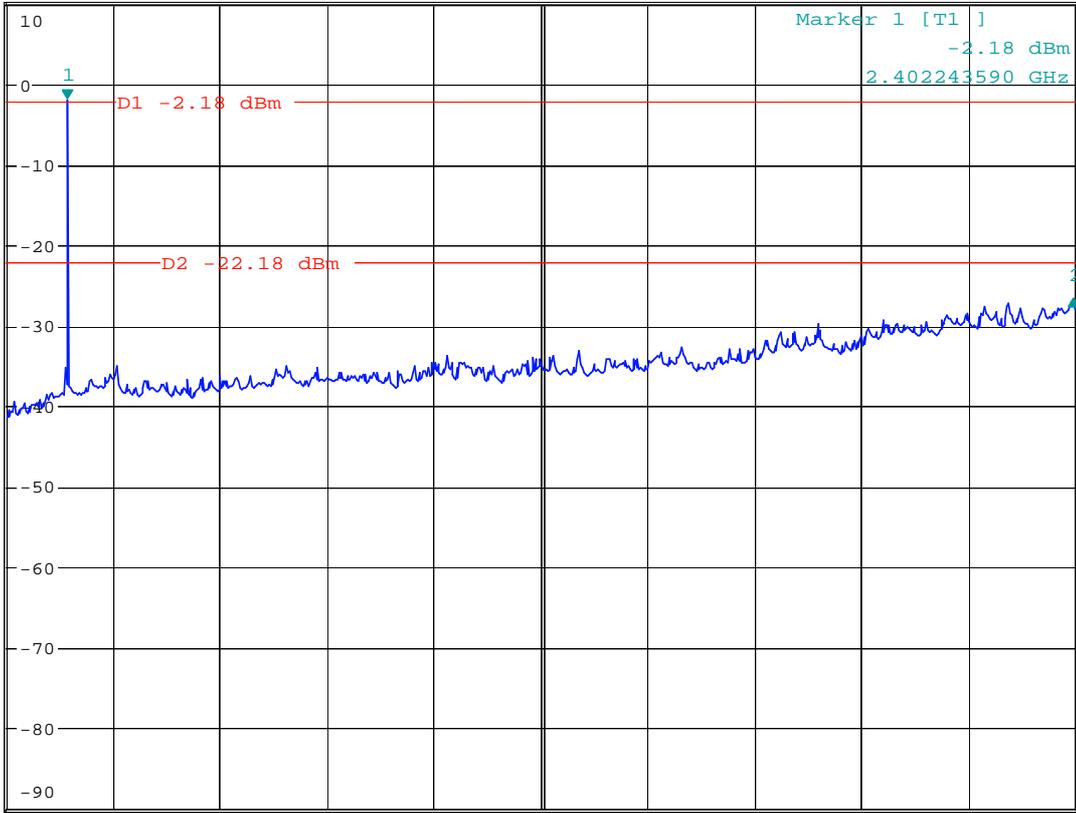
Ref 10 dBm

Att 35 dB

SWT 145 ms

23.557692308 GHz

1. PK  
MAXH



Start 1 GHz

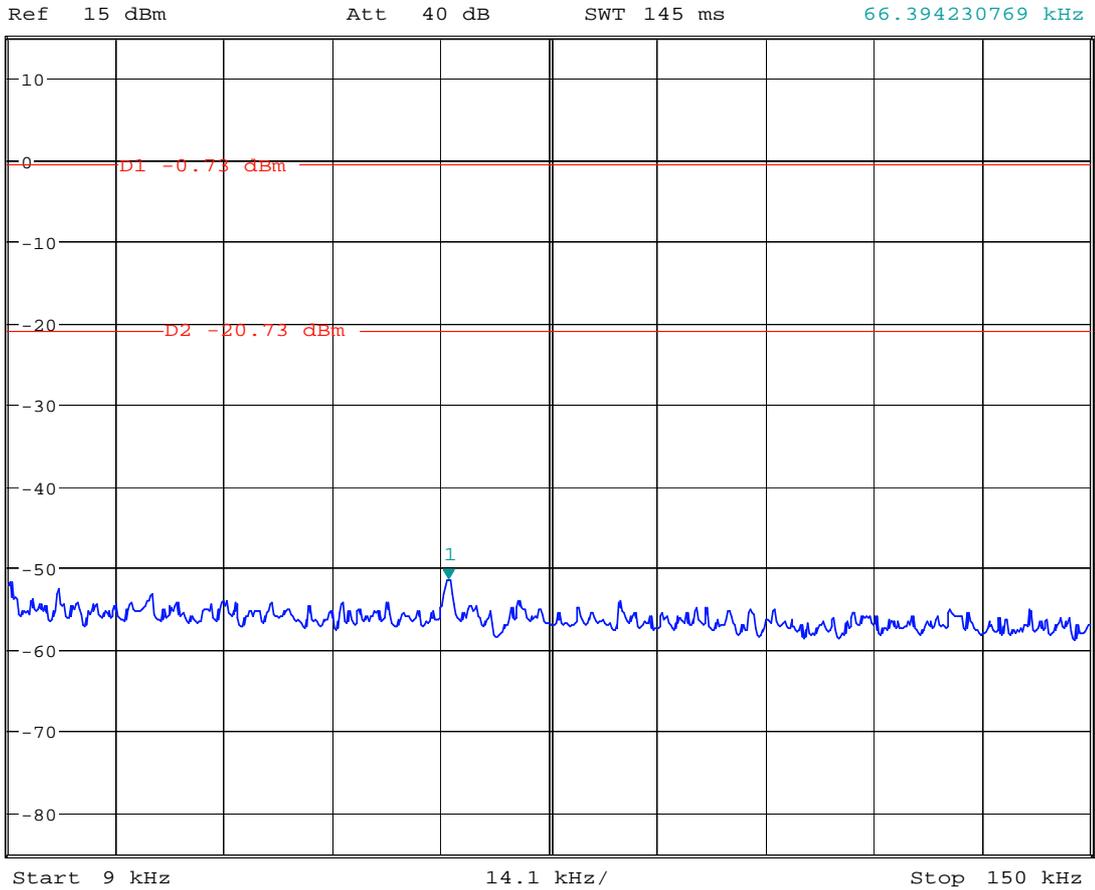
2.5 GHz/

Stop 26 GHz

# Channel 40

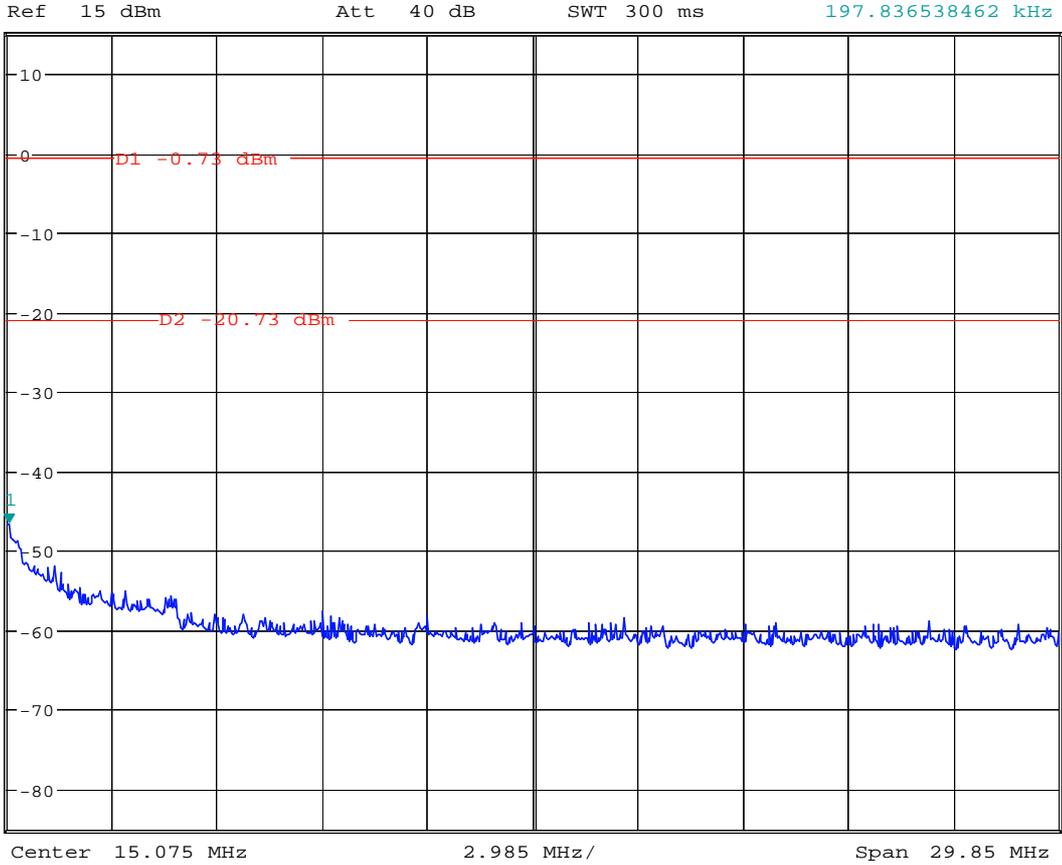


\* RBW 1 kHz  
\* VBW 3 kHz  
SWT 145 ms  
Marker 1 [T1 ]  
-51.54 dBm  
66.394230769 kHz



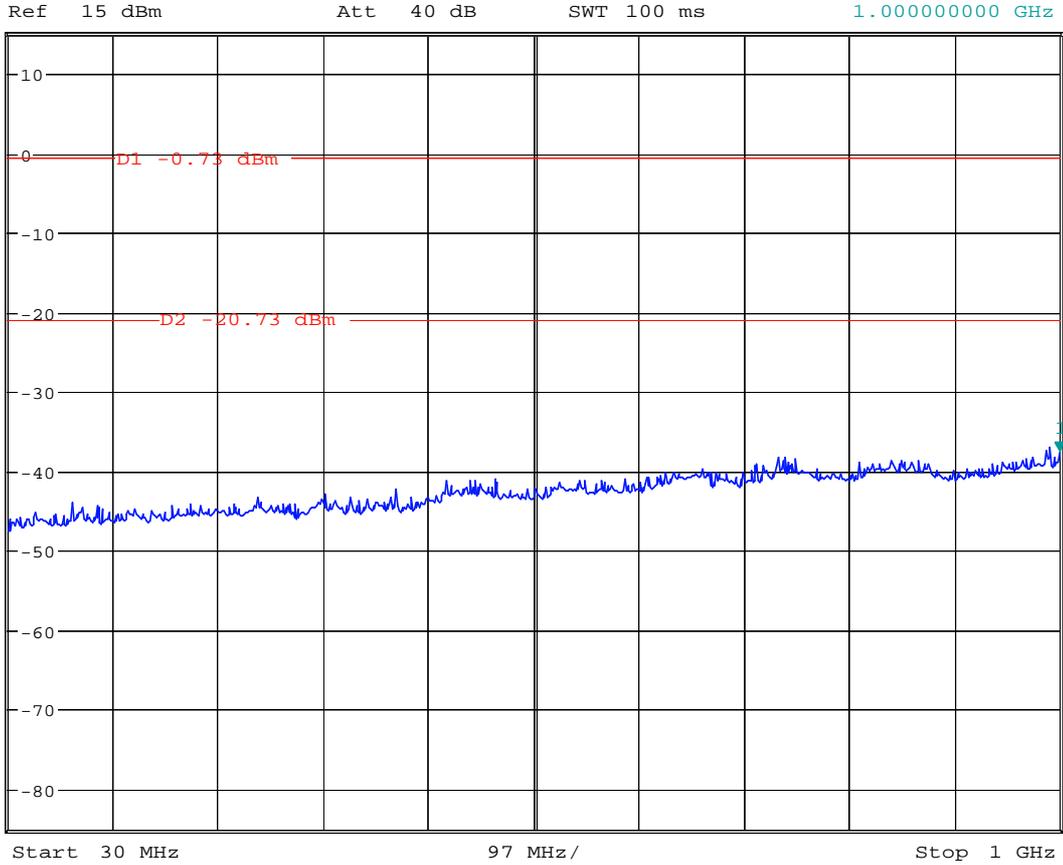


\*RBW 10 kHz      Marker 1 [T1 ]  
\*VBW 30 kHz      -46.73 dBm  
SWT 300 ms      197.836538462 kHz





\*RBW 100 kHz      Marker 1 [T1 ]  
\*VBW 300 kHz      -37.70 dBm  
SWT 100 ms      1.000000000 GHz



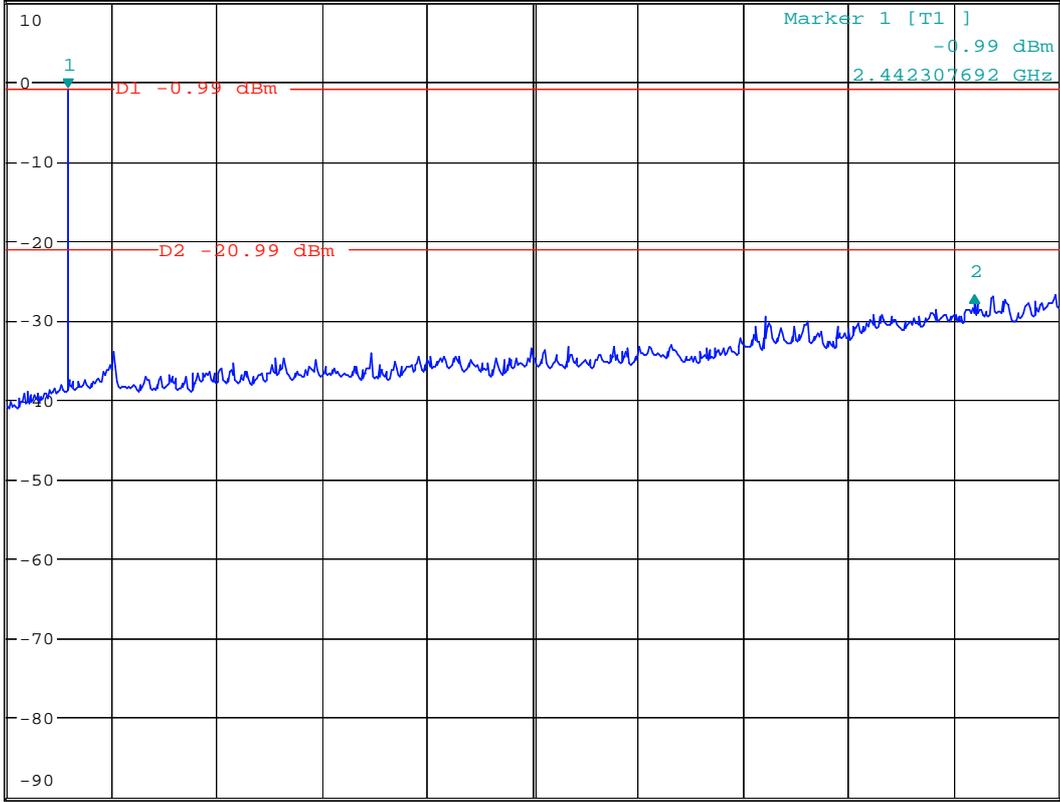


\*RBW 1 MHz      Delta 2 [T1 ]  
VBW 3 MHz      -26.07 dB  
SWT 145 ms      21.554487179 GHz

Ref 10 dBm

Att 35 dB

1 PK  
MAXH

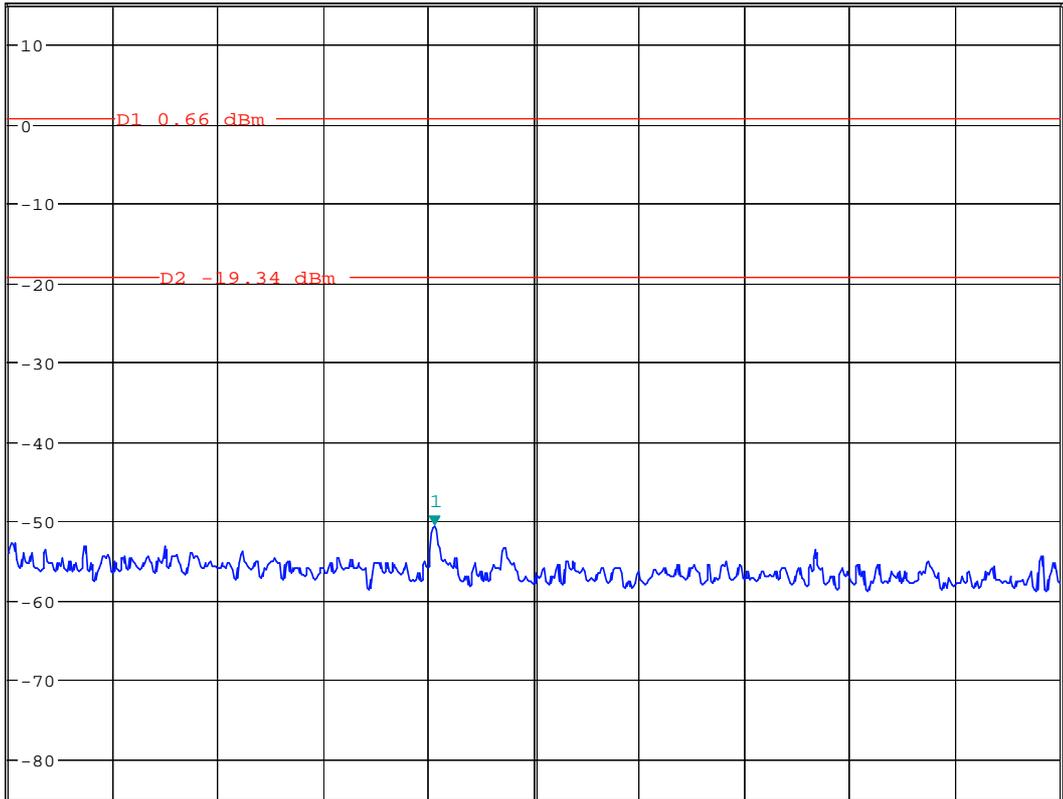


# Channel 78



Ref 15 dBm Att 40 dB \*RBW 1 kHz Marker 1 [T1 ]  
\*VBW 3 kHz -50.70 dBm  
SWT 145 ms 66.168269231 kHz

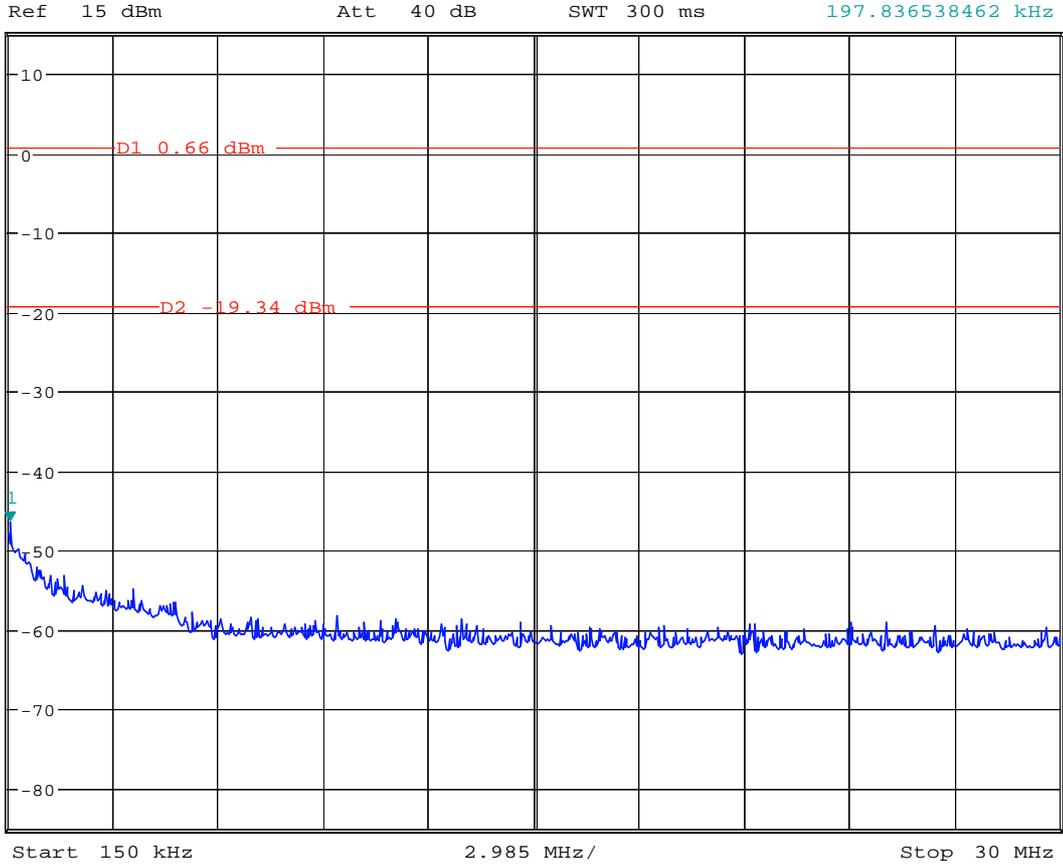
1 PK  
MAXH



Start 9 kHz 14.1 kHz/ Stop 150 kHz



\*RBW 10 kHz      Marker 1 [T1 ]  
\*VBW 30 kHz      -46.51 dBm  
SWT 300 ms      197.836538462 kHz





\*RBW 100 kHz      Marker 1 [T1 ]  
\*VBW 300 kHz      -37.74 dBm  
SWT 100 ms      986.009615385 MHz

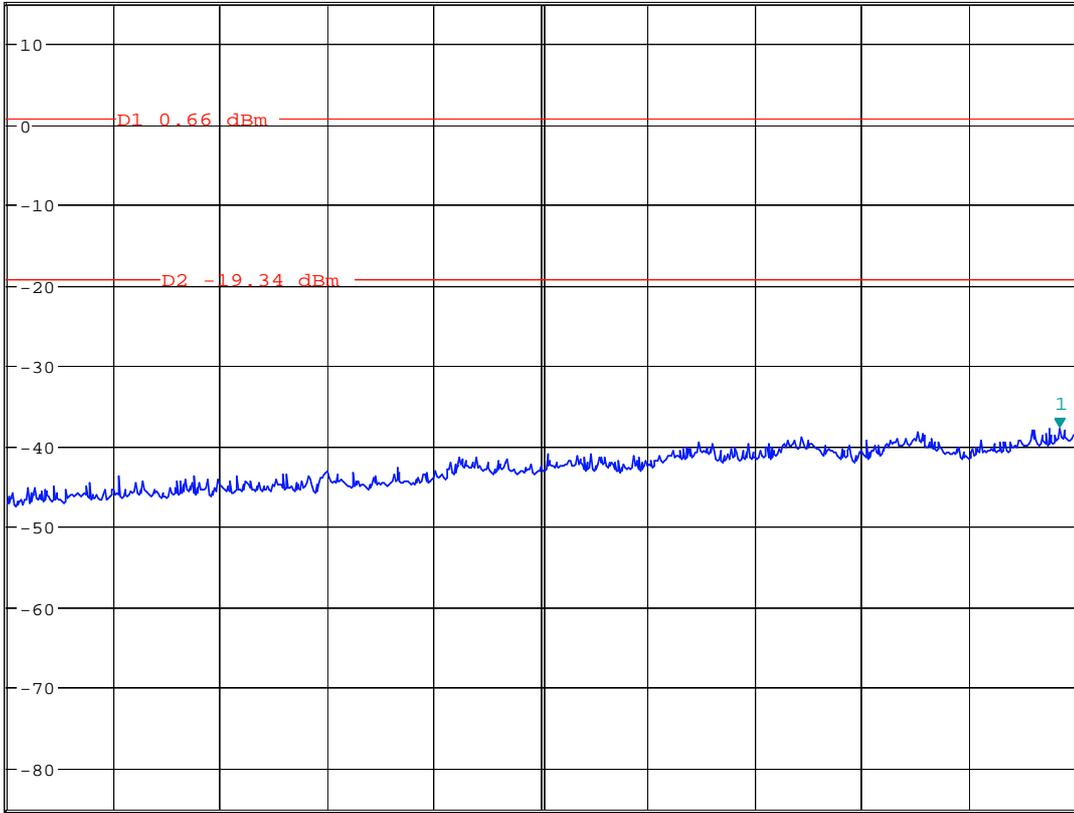
Ref 15 dBm

Att 40 dB

SWT 100 ms

986.009615385 MHz

1. PK  
MAXH



Start 30 MHz

97 MHz/

Stop 1 GHz

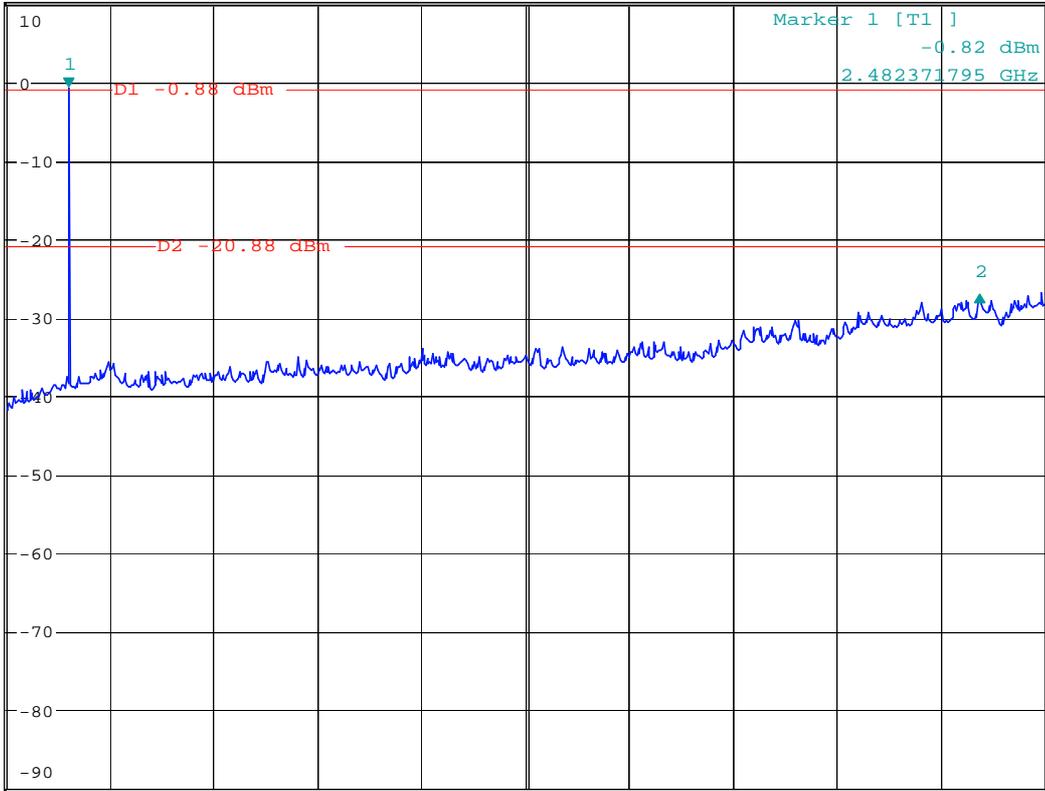


\*RBW 1 MHz      Delta 2 [T1 ]  
VBW 3 MHz      -26.58 dB  
SWT 145 ms      21.955128205 GHz

Ref 10 dBm

Att 35 dB

1 PK  
MAXH



Start 1 GHz

2.5 GHz/

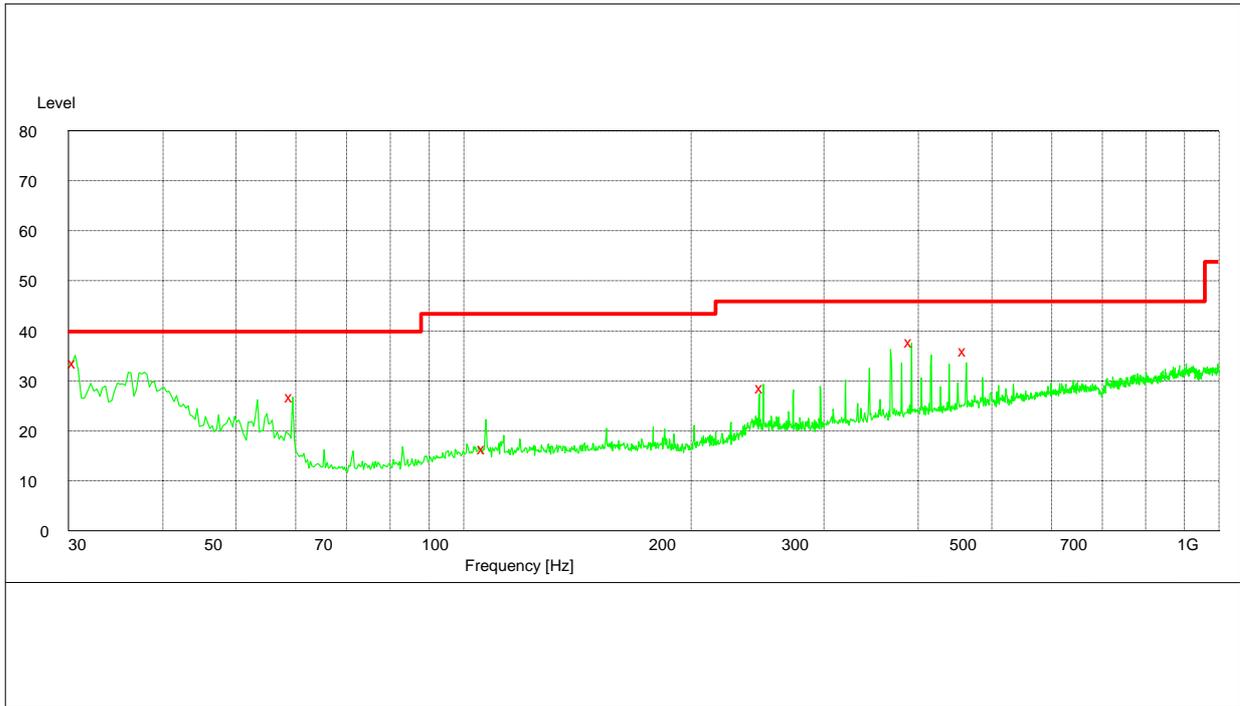
Stop 26 GHz

## Appendix H

# Radiated spurious emission & spurious in restricted band

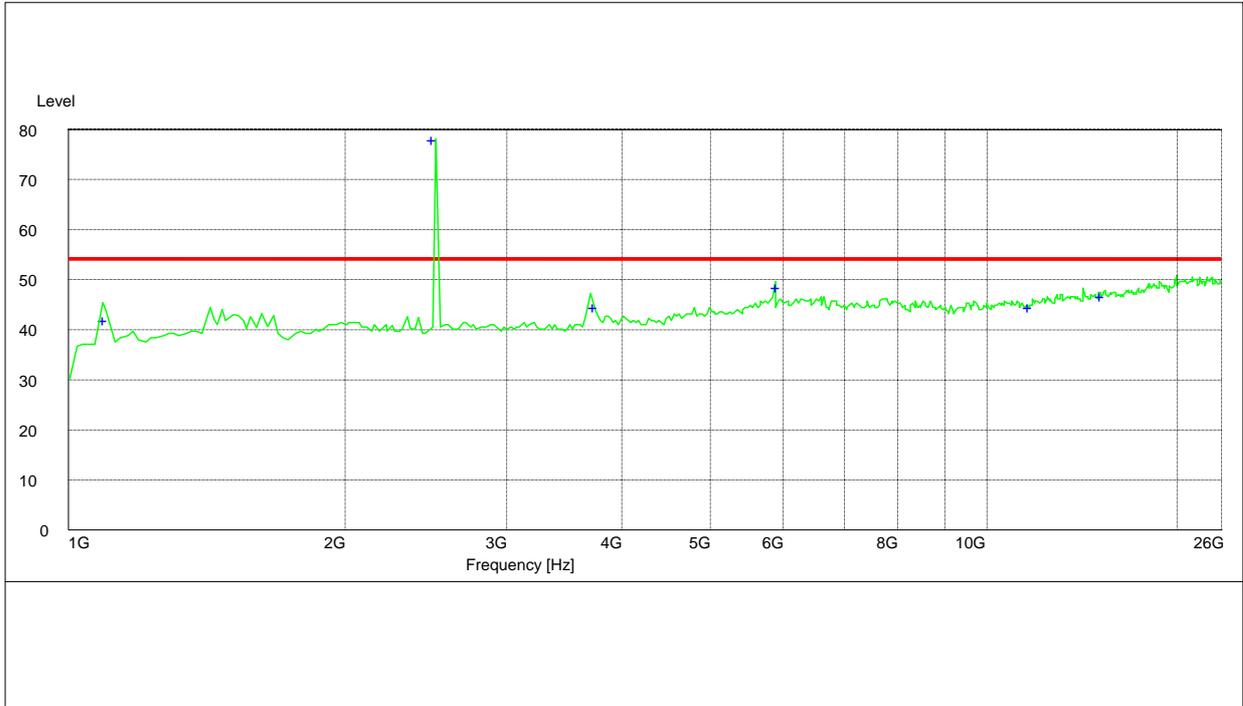
According to FCC Part 15.247 d & 15.205 & 15.209

# Channel 0 30MHz to 1GHz



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
30.600000	33.70	-3.6	40.0	6.3	183.0	194.00	HORIZONTAL
59.280000	27.00	-16.4	40.0	13.0	107.0	39.00	VERTICAL
106.740000	16.60	-13.3	43.5	26.9	200.0	144.00	HORIZONTAL
249.000000	28.80	-9.3	46.0	17.2	108.0	323.00	HORIZONTAL
391.320000	37.90	-5.6	46.0	8.1	100.0	24.00	HORIZONTAL
462.480000	36.10	-4.6	46.0	9.9	199.0	262.00	HORIZONTAL

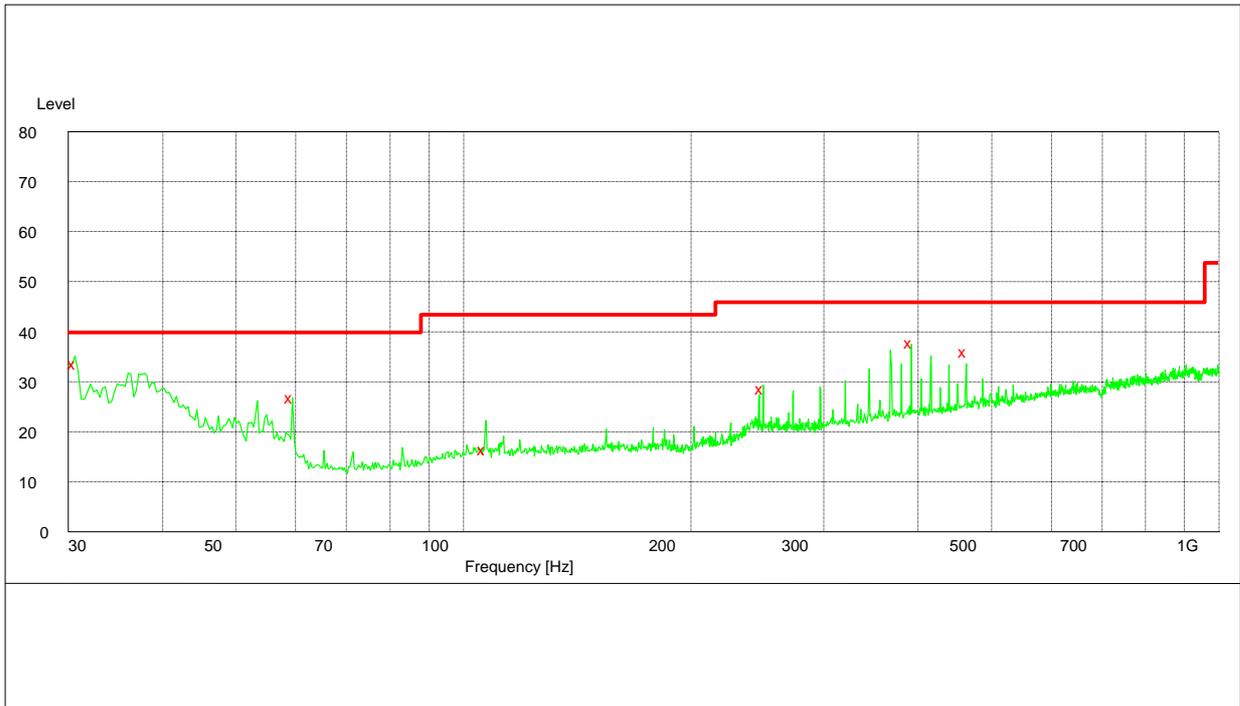
# 1GHz to 26GHz



Note: The peak exceeds the limit line is carrier frequency.

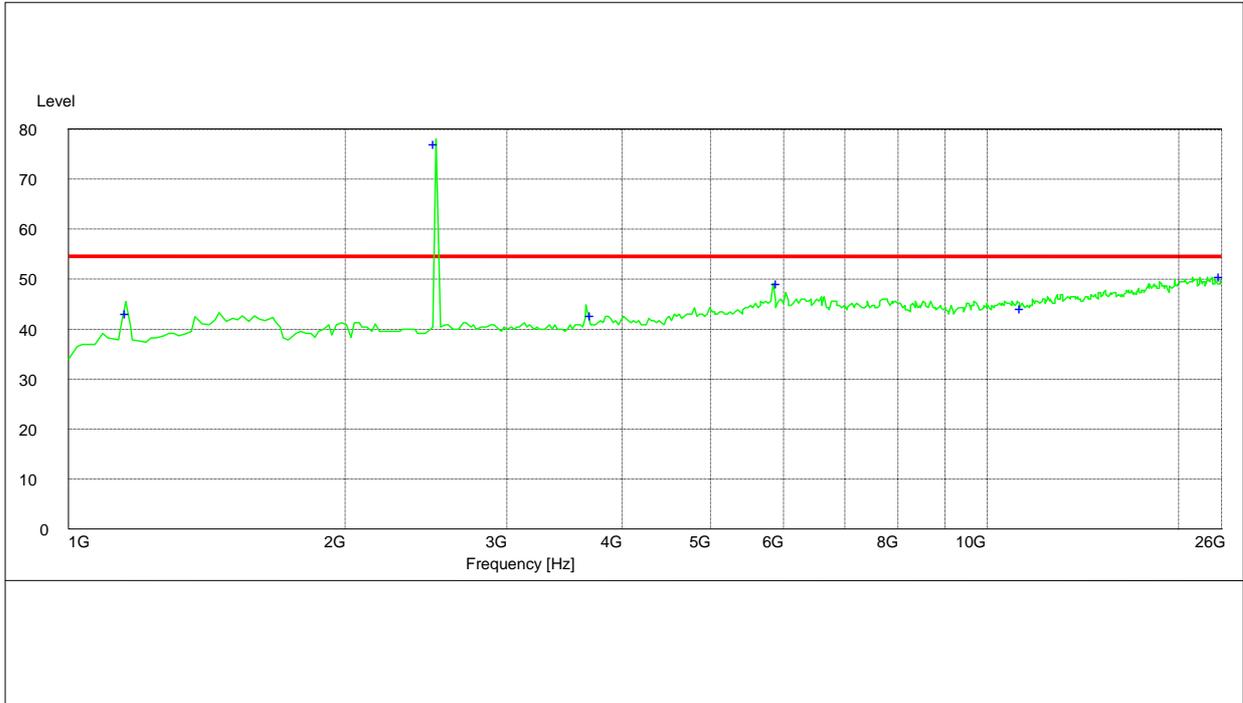
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
1100.000000	41.20	-6.5	54.0	12.8	100.0	270.00	VERTICAL
2402.000000	79.80	2.0	54.0	-25.8	100.0	100.00	HORIZONTAL
3750.000000	44.50	7.0	54.0	9.5	100.0	0.00	HORIZONTAL
5925.500000	49.10	12.7	54.0	4.9	200.0	300.00	VERTICAL
12921.000000	43.10	31.6	54.0	10.9	100.0	180.00	HORIZONTAL
15430.000000	48.10	38.0	54.0	5.9	220.0	270.00	VERTICAL

## Channel 40 30MHz to 1GHz



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
30.600000	33.70	-3.6	40.0	6.3	183.0	194.00	HORIZONTAL
59.280000	27.00	-16.4	40.0	13.0	107.0	39.00	VERTICAL
106.740000	16.60	-13.3	43.5	26.9	200.0	144.00	HORIZONTAL
249.000000	28.80	-9.3	46.0	17.2	108.0	323.00	HORIZONTAL
391.320000	37.90	-5.6	46.0	8.1	100.0	24.00	HORIZONTAL
462.480000	36.10	-4.6	46.0	9.9	199.0	262.00	HORIZONTAL

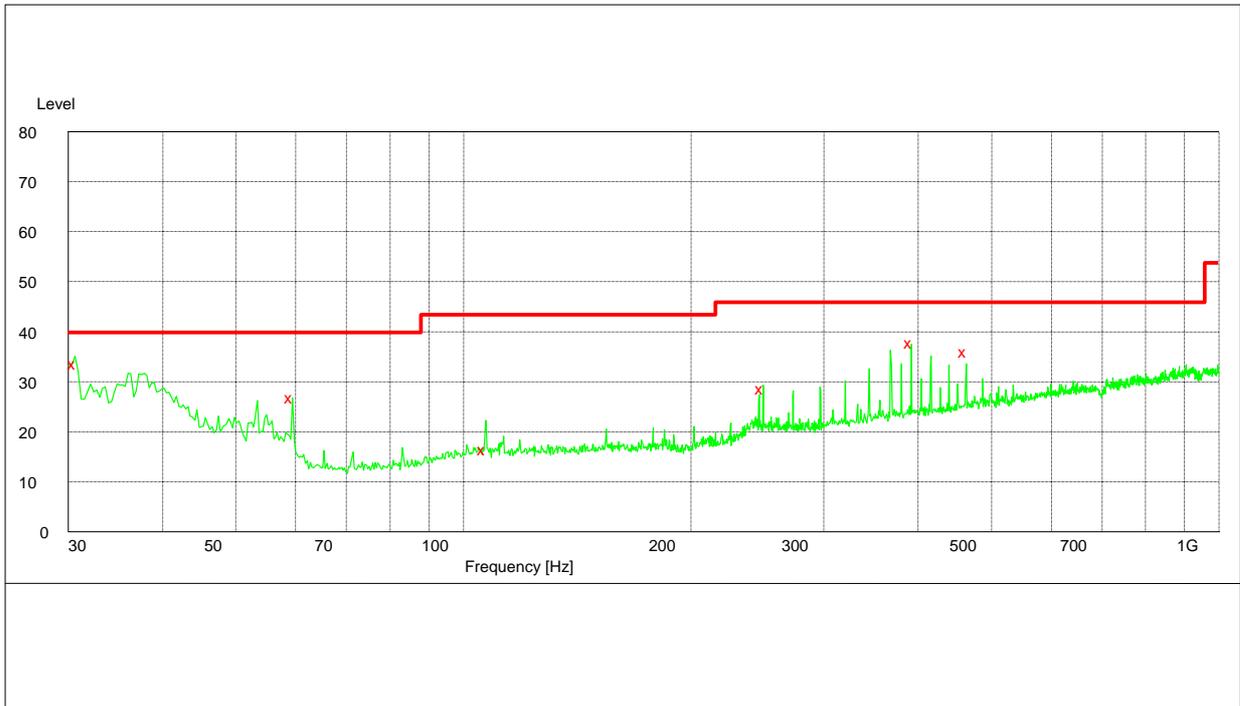
# 1GHz to 26GHz



Note: The peak exceeds the limit line is carrier frequency.

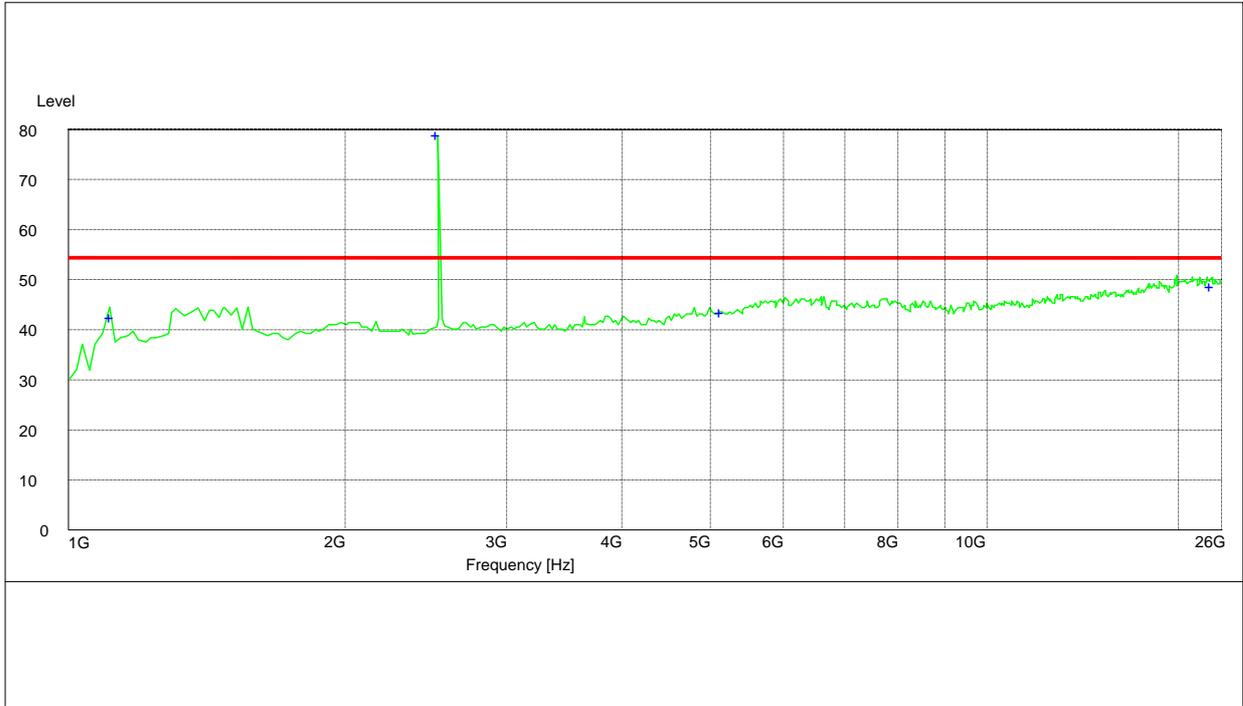
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
1204.000000	42.50	-6.5	54.0	11.5	200.0	270.00	HORIZONTAL
2442.000000	77.90	2.1	54.0	-23.9	126.0	220.00	VERTICAL
3750.000000	42.00	7.0	54.0	12.0	100.0	12.00	VERTICAL
5925.500000	49.90	12.7	54.0	4.1	110.0	0.00	VERTICAL
12924.500000	43.70	31.6	54.0	10.3	300.0	270.00	HORIZONTAL
25998.000000	50.90	52.1	54.0	3.1	100.0	110.00	VERTICAL

# Channel 78 30MHz to 1GHz



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
30.600000	33.70	-3.6	40.0	6.3	183.0	194.00	HORIZONTAL
59.280000	27.00	-16.4	40.0	13.0	107.0	39.00	VERTICAL
106.740000	16.60	-13.3	43.5	26.9	200.0	144.00	HORIZONTAL
249.000000	28.80	-9.3	46.0	17.2	108.0	323.00	HORIZONTAL
391.320000	37.90	-5.6	46.0	8.1	100.0	24.00	HORIZONTAL
462.480000	36.10	-4.6	46.0	9.9	199.0	262.00	HORIZONTAL

# 1GHz to 26GHz



Note: The peak exceeds the limit line is carrier frequency.

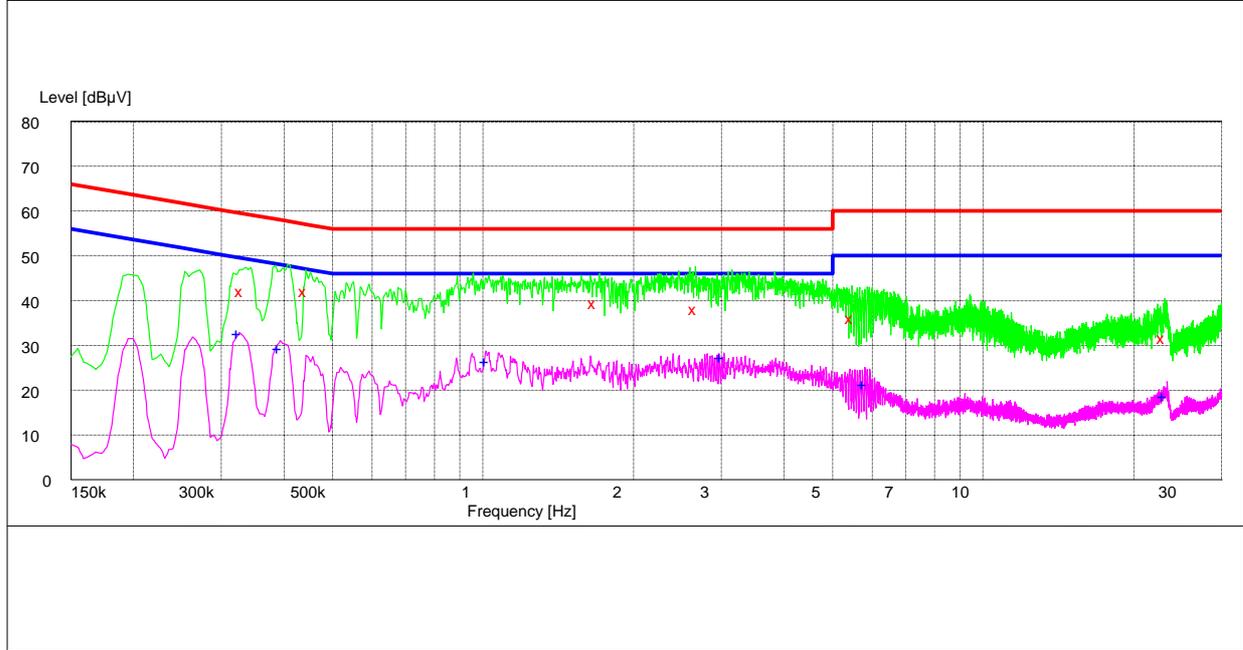
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
1100.000000	41.20	-6.5	54.0	12.8	170.0	270.00	VERTICAL
2480.000000	79.50	2.3	54.0	-25.5	100.0	180.00	VERTICAL
5087.500000	43.50	12.1	54.0	10.5	100.0	0.00	VERTICAL
22248.500000	49.00	48.8	54.0	5.0	200.0	200.00	VERTICAL

# Appendix I

## Conducted Emission at Power Port

According to FCC Part 15.207

# Channel 40



**MEASUREMENT RESULT:**

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.330000	42.30	10.2	59	16.7	QP	L3	FLO
0.442500	42.40	10.0	57	14.6	QP	L3	FLO
1.675500	39.70	9.9	56	16.3	QP	L3	FLO
2.670000	38.50	10.1	56	17.5	QP	L3	FLO
5.482500	36.50	10.2	60	23.5	QP	L3	FLO
23.010000	31.90	15.6	60	28.1	QP	L3	FLO

**MEASUREMENT RESULT:**

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.325500	33.10	10.2	50	16.9	AV	L3	FLO
0.393000	29.70	10.1	48	18.3	AV	L3	FLO
1.018500	26.90	9.9	46	19.1	AV	L3	FLO
3.007500	27.60	10.1	46	18.4	AV	L3	FLO
5.806500	21.70	10.2	50	28.3	AV	L3	FLO
23.095500	19.10	15.6	50	30.9	AV	L3	FLO