



FCC RF Test Report

**Product Name: HSPA/UMTS/GPRS/GSM/EDGE Mobile Phone
with Bluetooth; HUAWEI Ascend G 300+**

Model Number: HUAWEI U8815-71,U8815-71

**Report No: SYBH(Z-RF)020092012-2002
FCC ID:QISU8815-71**

Reliability Laboratory of Huawei Technologies Co., Ltd.

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Notice

1. The laboratory has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS), and accreditation number: L0310.
2. The laboratory has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements. The site recognition number is 97456.
3. The laboratory has been listed by industry Canada to perform electromagnetic emission measurement. The site recognition number is 6369A-2.
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Applicant: Huawei Technologies Co., Ltd.
Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Date of Receipt Test Item: Sep.23, 2012
Start Date of Test: Sep.29, 2012
End Date of Test: Sep.29, 2012

Test Result: Pass

Approved By Senior Engineer Sep.29, 2012 Dai Linjun Dai Linjun
Date Name Signature

Reviewed By Sep.29, 2012 Cousy Xu Cousy XU
Date Name Signature

Operator Sep.29, 2012 Huang Qiuliang Huang Qiuliang
Date Name Signature

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1 General Information

1.1 Applied Standard

Applied Rules: 47 CFR FCC Part 2:2010, Subpart J
47 CFR FCC Part 24:2010, Subpart E
ANSI/TIA 603C:2004

1.2 Test Location

Test Location 1: Reliability Laboratory of Huawei Technologies Co., Ltd.
Address: Administration Building, Headquarters of Huawei Technologies Co.,
Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

1.3 Test Environment Condition

Ambient Temperature: 20 – 25 °C
Ambient Relative Humidity: 45 – 55 %
Atmospheric Pressure: 101 kPa

2 Summary

Table 1 Summary of results

Test Case	FCC Part No.	Requirements	Result
PCS Band			
Transmitter Output Power	2.1046 & 24.232	Peak EIRP not exceed 2 W	Pass
Modulation Characteristics	2.104	Digital modulation	Pass
Occupied Bandwidth	2.104	(Not specified)	Pass
Band Edges Compliance	2.1051 & 24.238	Below -13 dBm/1%*EBW, in 1 MHz range	Pass
Spurious Emission at Antenna Terminals	2.1051 & 24.238	Below -13 dBm/1 kHz, 9 kHz to 150 kHz Below -13 dBm/10 kHz, 150 kHz to 30 MHz Below -13 dBm/1 MHz, 30 MHz to 10 th harmonics	Pass
Field Strength of Spurious Radiation	2.1053 & 24.238	Below -13 dBm/1 MHz	Pass
Frequency Stability	2.1055 & 24.235	Stay within the authorized frequency block	Pass

3 Product Description

3.1 Production Information

3.1.1 General Description

HUAWEI U8815-71, U8815-71 is subscriber equipment in the WCDMA/GSM system. The HSPA/UMTS frequency band is Band I and Band VIII and Band V, but only band V test data included in this report. The GSM/GPRS/EDGE frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900, but only GSM850 and PCS1900 bands test data included in this report. The Mobile Phone implements such functions as RF signal receiving/transmitting, HSPA/UMTS and GSM/GPRS/EDGE protocol processing, voice, video MMS service, GPS, AGPS and WIFI etc. Externally it provides micro SD card interface, earphone port(to provide voice service) and 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.

The mobile phone U8815-71 is a HSDPA/HSUPA/UMTS/GPRS/GSM/EDGE mobile phone with Bluetooth, which supports GSM850/900/1800/1900 and WCDMA850/900/2100 The mobile phone U8815-51 is a HSDPA/UMTS/GPRS/GSM/EDGE mobile phone with Bluetooth, which supports GSM850/900/1800/1900 and WCDMA850/1900/2100

The difference between U8815-71 and U8815-51 is showed in the following table.

	U8815-71	U8815-51
GSM four bands	the same	the same
WCDMA bands	WCDMA850/900/2100	WCDMA/850/1900/2100
FLASH	the same	the same
PCB	the same	the same
Appearance	the same	the same
Bluetooth mode	the same	the same
WLAN mode	the same	the same
BT/ WLAN antenna	the same	the same
GSM/ WCDMA antenna	the same	the same
External	the same	the same

camera		
internal camera	the same	the same
Adapter	the same	the same
Battery	the same	the same
Chipset	7227A	7227A
Memory	the same	the same
Form factor	Bar type, Internal antenna	Bar type, Internal antenna
RF Parameter	The same RF Parameter in the same band	The same RF Parameter in the same band
BT RF Parameter	the same	the same
Dimension	the same	the same
Weight	the same	the same
Bluetooth	the same	the same
External camera	the same	the same
Main Frequency NV	The same NV in the same band	The same NV in the same band
BT conducted power	the same	the same
WIFI conducted power	the same	the same

So U8815-71 tested WCDMA bands only, other bands test data refer to U8815-51 RF report.

1.3.1 Board Information

Table 2 Board Information

HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth; HUAWEI Ascend G 300; Ascend G 300		
HUAWEI U8815-71,U8815-71		
Board and Module		
Serial Number	Software Version	Hardware Version
F4H01A9290500025	U8815-71V100R001C00B867	HD1U8815M

3.1.2 Adapter Technical Data

AC/DCAdapter Model	HW-050100U1W
Manufacturer	Huawei Technologies Co., Ltd.
Input Voltage	~100-240V 50/60Hz 0.2A
Output Voltage	5V  1A
Rated Power	5W

AC/DCAdapter Model	HW-050100A1W
Manufacturer	Huawei Technologies Co., Ltd.
Input Voltage	~100-240V 50/60Hz 0.2A
Output Voltage	5V  1A
Rated Power	5W

AC/DCAdapter Model	HW-050100E1W
Manufacturer	Huawei Technologies Co., Ltd.
Input Voltage	~100-240V 50/60Hz 0.2A
Output Voltage	5V  1A
Rated Power	5W

3.1.3 Battery Technical Data

Name	Manufacture	Description
Rechargeable Li-ion	Huawei Technologies Co., Ltd.	Battery Model: HB5N1H Rated capacity: 1500mAh Nominal Voltage:  +3.7V Charging Voltage:  +4.2V

4 Test Description

4.1 Supported Frequency Range

Characteristics	Description
Downlink	1930 to 1990 MHz
Uplink	1850 to 1910 MHz

4.2 Transmitter / Receiver Characteristics

Characteristics	Description
System Type	GSM
TX Output Power (per Antenna Port)	GSM system: 30dBm; UMTS system: 24dBm;
Channel Spacing(s) / Bandwidth(s)	GSM system: 200 kHz UMTS system: 5 MHz
Designation of Emissions	GSM system: 247KGXW (GMSK modulation), 247KG7W (8PSK modulation)

4.3 Antenna Gain

Antenna Gain(dBi)	-0.7
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4.4 Power Supply

Specification	Description
Power Supply Type	Directly Connected to DC /AC Power Supply
Input to EUT (DC power)	DC Voltage Nominal: $\approx$ 3.7 V DC Voltage Range: $\approx$ 3.6 V to 4.2 V
Input to EUT (AC power)	AC Voltage Nominal: ~ 230 V (50/60 Hz) AC Voltage Range: ~100-240V

5 General Test Conditions / Configurations

5.1 RF Channels under Test

Test Mode	TX / RX	RF Channel		
		Bottom (B)	Middle (M)	Top (T)
TM1/TM2	TX	Channel 512	Channel 661	Channel 810
		1850.2MHz	1880.0MHz	1909.8MHz
	RX	Channel 512	Channel 661	Channel 810
		1930.2 MHz	1960.0 MHz	1989.8 MHz

5.2 Test Modes

Test Mode	Test Modes Description
TM1	GSM/GPRS, GMSK modulation
TM2	EDGE, 8PSK modulation

5.3 Test Environments

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Temperature	TN	Ambient
Voltage	VL	3.6V
	VN	3.7V
	VH	4.2V

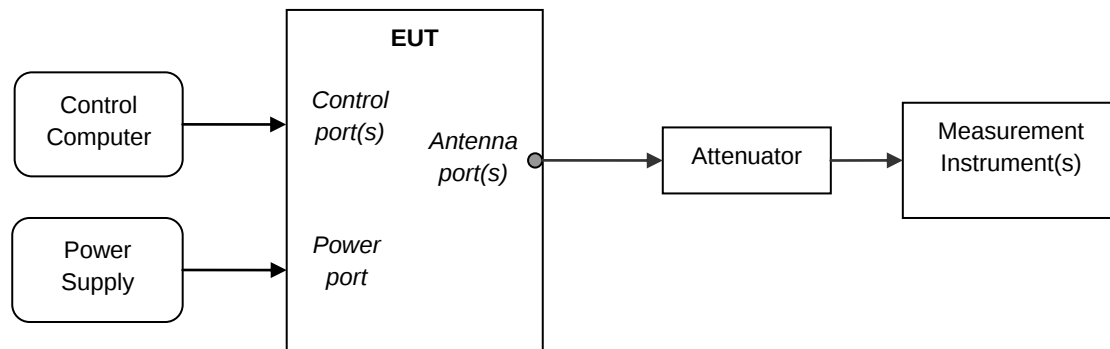
NOTE: VL= lower extreme test voltages
VN= nominal voltage
VH= upper extreme test voltage
TN= normal temperature

5.4 Test Setups

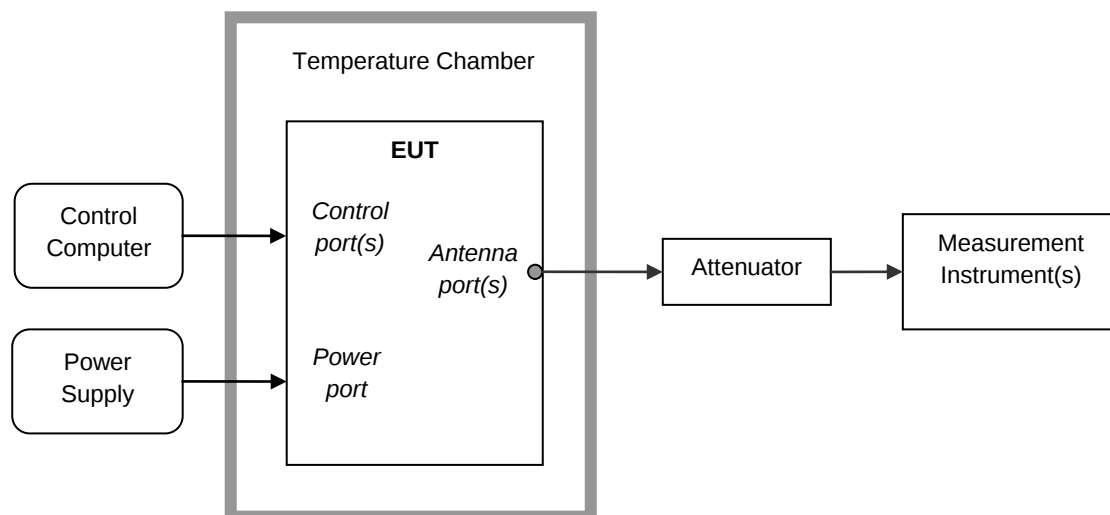
5.4.1 General Test Setup Configurations

Configuration	Description
Test Antenna Ports	Until otherwise declared, all TX tests are ONLY performed at the main Transmitter antenna port (e.g. TRXA, TXA and so on) of the EUT, and all RX tests are ONLY performed at the main Receiver antenna port (e.g. TRXA, RXA and so on) of the EUT.
Multiple RF Sources	Other than the tested RF source of the EUT, other RF source(s) are disabled or shutdown during measurements.

5.4.2 Test Setup 1



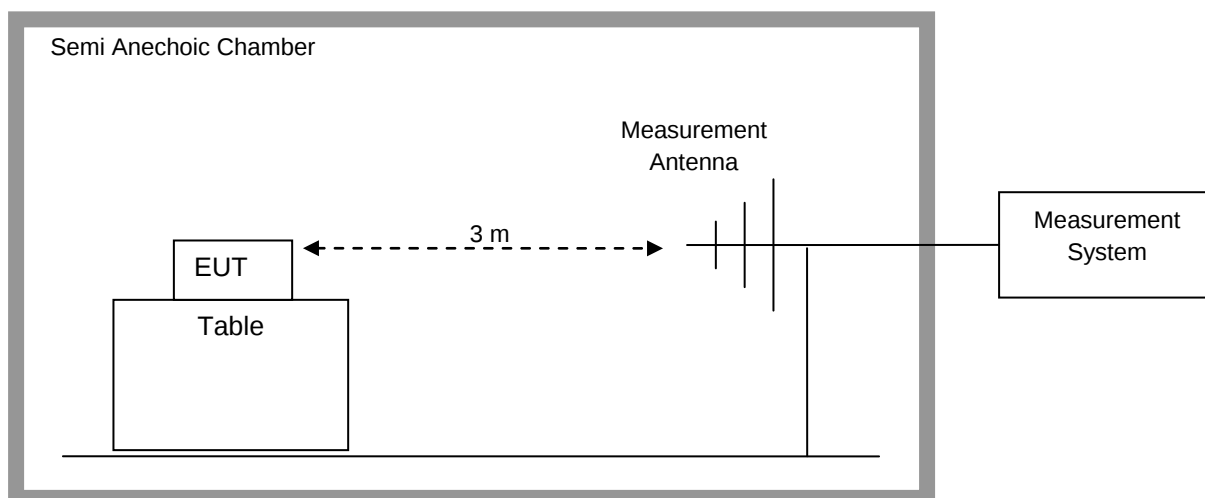
5.4.3 Test Setup 2



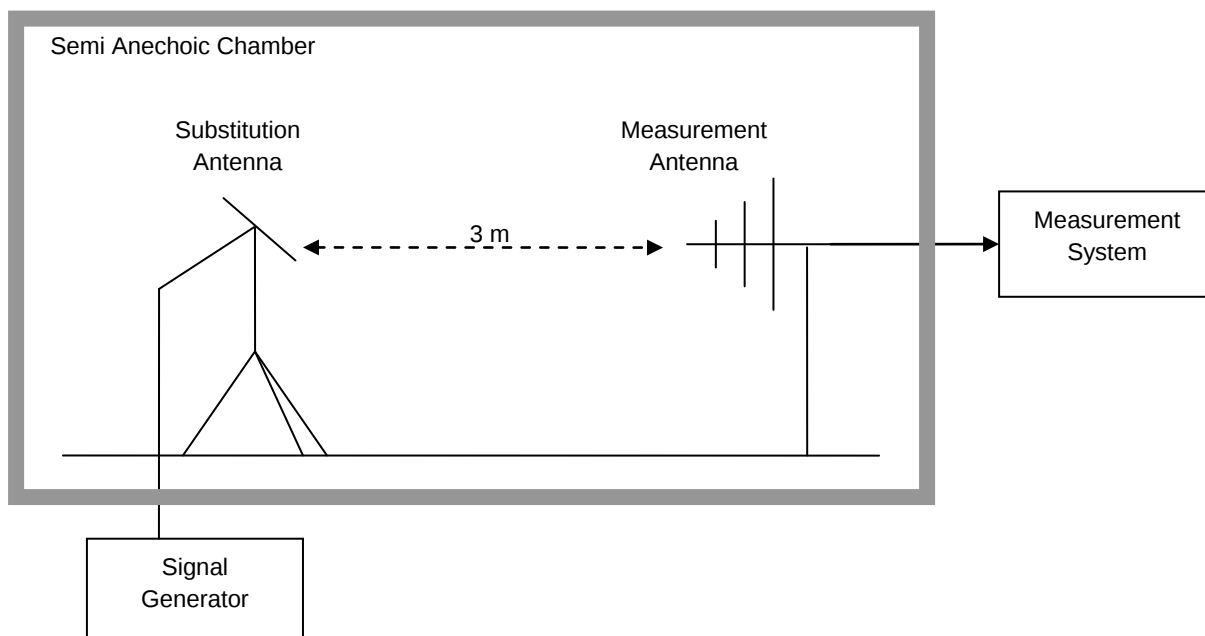
5.4.4 Test Setup 3

NOTE: Effective Isotropic radiated power (EIRP) refers to the radiation power output of the EUT, assuming all emissions are radiated from half-wave dipole antennas.

Step 1: Pre-test



Step 2: Substitution method to verify the maximum EIRP



5.5 Test Conditions

Test Case	Test Conditions	
Transmitter Output Power	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1 & Test Setup 3
	Detector	RMS
	RF Channels (TX)	B, M, T
	Test Mode	TM1/TM2
Modulation Characteristics	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1
	RF Channels (TX)	M
	Test Mode	TM1/TM2
Occupied Bandwidth	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1
	Detector	PK
	RF Channels (TX)	B, M, T
	Test Mode	TM1/TM2
Band Edges Compliance	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1
	Detector	RMS
	RF Channels (TX)	B, T
	Test Mode	TM1/TM2
Spurious Emission at Antenna Terminals	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1
	Detector	PK
	RF Channels (TX)	B, M, T
	Test Mode	TM1/TM2
Field Strength of Spurious Radiation	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 3
	Detector	PK
	RF Channels (TX)	M
	Test Mode	TM1/TM2
Frequency Stability	Test Configuration	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage; (2) 85%, 100% and 115% of Rated Voltage at Ambient Temperature.
	Test Setup	Test Setup 2



Test Case	Test Conditions	
	RF Channels (TX)	M
	Test Mode	TM1/TM2

6 Main Test Instruments

Table 3 Main Test Equipments

Equipment Description	Manufacturer	Model	Serial Number	Calibrated until
Power supply	KEITHLEY	2303	1288003	Sep.27,2013
Universal Radio Communication Tester	R&S	CMU200	117341	Jan.12.2013
Universal Radio Communication Tester	Agilent	E5515C	MY50260239	Aug.31,2013
Spectrum Analyzer	Agilent	E4440A	MY49420179	Apr.20,2013
Signal Analyzer	R&S	FSQ31	200021	Sep.27,2013
Temperature Chamber	WEISS	WKL64	24600294	Jan.03,2013
Signal generator	Agilent	E8257D	MY49281095	Jul.09.2013
Test receiver	R&S	ESU26	100150	May.29.2013
Tunable Dipole	Schwarzbeck	D69250-UHAP/D69250-VHAP	919/1009	Jan.29.2013
Tunable Dipole	Schwarzbeck	D69250-UHAP/D69250-VHAP	979/917	Jan.29.2013
Horn Antenna	R & S	HF906	100683	May.15, 2013
Horn Antenna	R & S	HF906	100684	Jul.01, 2013
Broadband Antenna	Schwarzbeck	VULB 9163	9163-357	May.15, 2013
Broadband Antenna	Schwarzbeck	VULB 9163	9163-356	May.15, 2013

7 Test Results

No.	Test Item	Test Result
1	Transmitter Output Power	Appendix A
2	Modulation Characteristics	Appendix B
3	Occupied Bandwidth	Appendix C
4	Band Edges Compliance	Appendix D
5	Spurious Emission at Antenna Terminals	Appendix E
6	Field Strength of Spurious Radiation	Appendix F
7	Frequency Stability	Appendix G
8	Photos of Field Strength of Spurious Radiation	Appendix H

NOTE: The Appendix H only photos of Field Strength of Spurious Radiation, no test data.

8 Measurement Uncertainty

For a 95% confidence level ($k=2$), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item		Extended Uncertainty
Transmitter Output Power	Power (dBm)	U =0.39 dB
Occupied Bandwidth	Magnitude (%)	U=0.2%
Band Edge Compliance	Disturbance Power (dBm)	U=2.0 dB
Conducted Spurious Emissions	Disturbance Power (dBm)	U=2.0 dB
Field Strength of Spurious Radiation	ERP (dBm)	U=4.6 dB (30 MHz – 1GHz) U=3.0 dB (above 1 GHz)
Frequency Stability	Frequency Accuracy (ppm)	U=0.21 ppm

-----The END-----



Appendix A

Transmitter Output Power

According to FCC Part 2.1046 & Part24.232



Conducted Power of Transmitter

TEST CONDITIONS	RF Output Power (Conducted)					
	Channel512(B)		Channel661(M)		Channel810(T)	
	1850.2MHz		1880.0MHz		1909.8MHz	
	dBm		dBm		dBm	
T_{nom} / V_{nom}	Measured	Limit	Measured	Limit	Measured	Limit
TM1	29.86	33	29.79	33	29.69	33
TM2	26.57	33	26.49	33	26.41	33

Peak-to-Average Ratio

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel512(L)		Channel661(M)		Channel810(H)	
	1850.2MHz		1880.0MHz		1909.8MHz	
	dB		dB		dB	
T_{nom} / V_{nom}	Measured	Limit	Measured	Limit	Measured	Limit
TM1	0.1	13	0.2	13	0.1	13
TM2	3.1	13	3.2	13	3.1	13



Effective Isotropic Radiated Power of Transmitter (EIRP)

Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBi]	Cable Loss [dB]	Substitution Level (EIRP)	FCC limit [dBm]	Result
							[dBm]		
TM1	1850.2	27.41	Dipole Ant.	30.56	-2.75	0.6	27.21	33.7	Pass
TM1	1880.0	27.34	Dipole Ant.	30.61	-2.87	0.6	27.14	33.7	Pass
TM1	1909.8	27.24	Dipole Ant.	30.49	-2.85	0.6	27.04	33.7	Pass
TM2	1850.2	24.12	Dipole Ant.	27.27	-2.75	0.6	23.92	28.2	Pass
TM2	1880.0	24.04	Dipole Ant.	27.31	-2.87	0.6	23.84	28.2	Pass
TM2	1909.8	23.96	Dipole Ant.	27.21	-2.85	0.6	23.76	28.2	Pass

Note: a, For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should take to calculate it,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level

-----The END-----



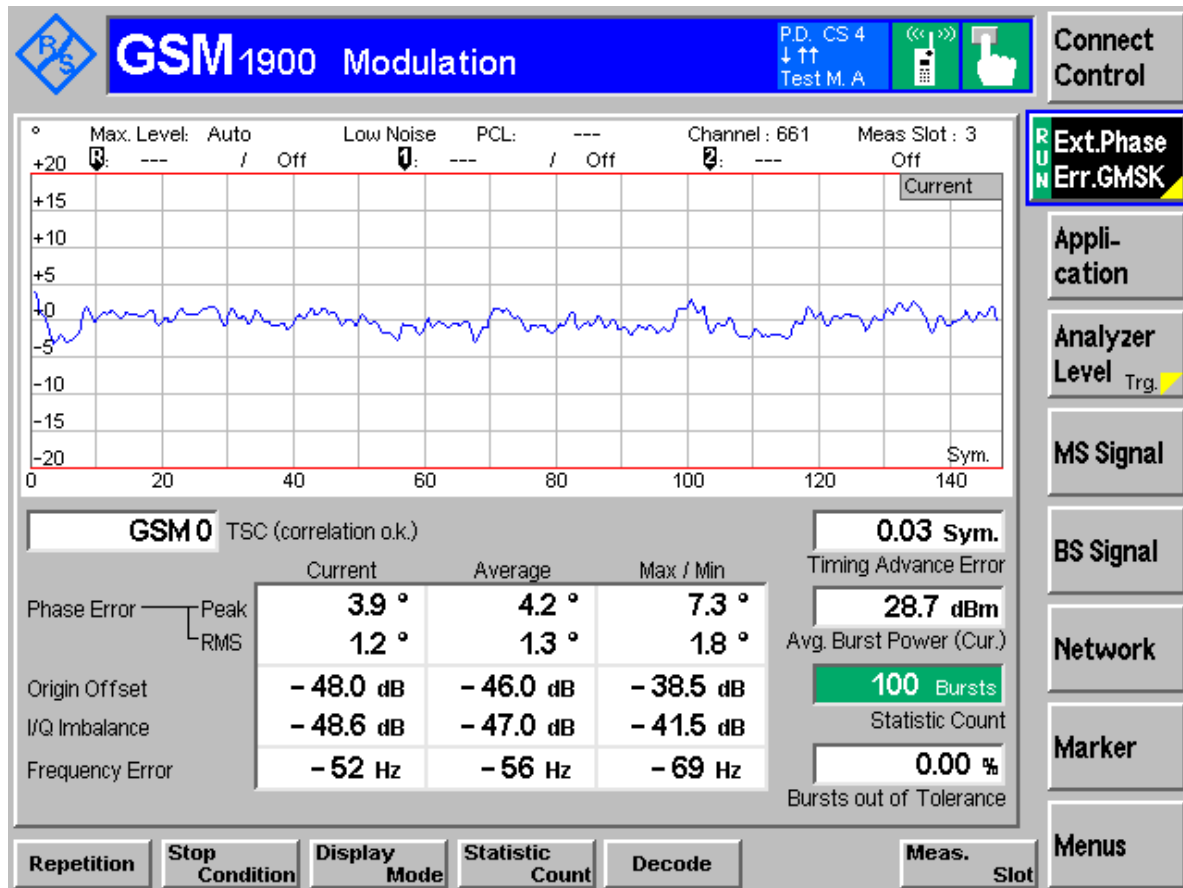
Appendix B

Modulation Characteristics

According to FCC Part 2.1047 & Part24 Subpart E

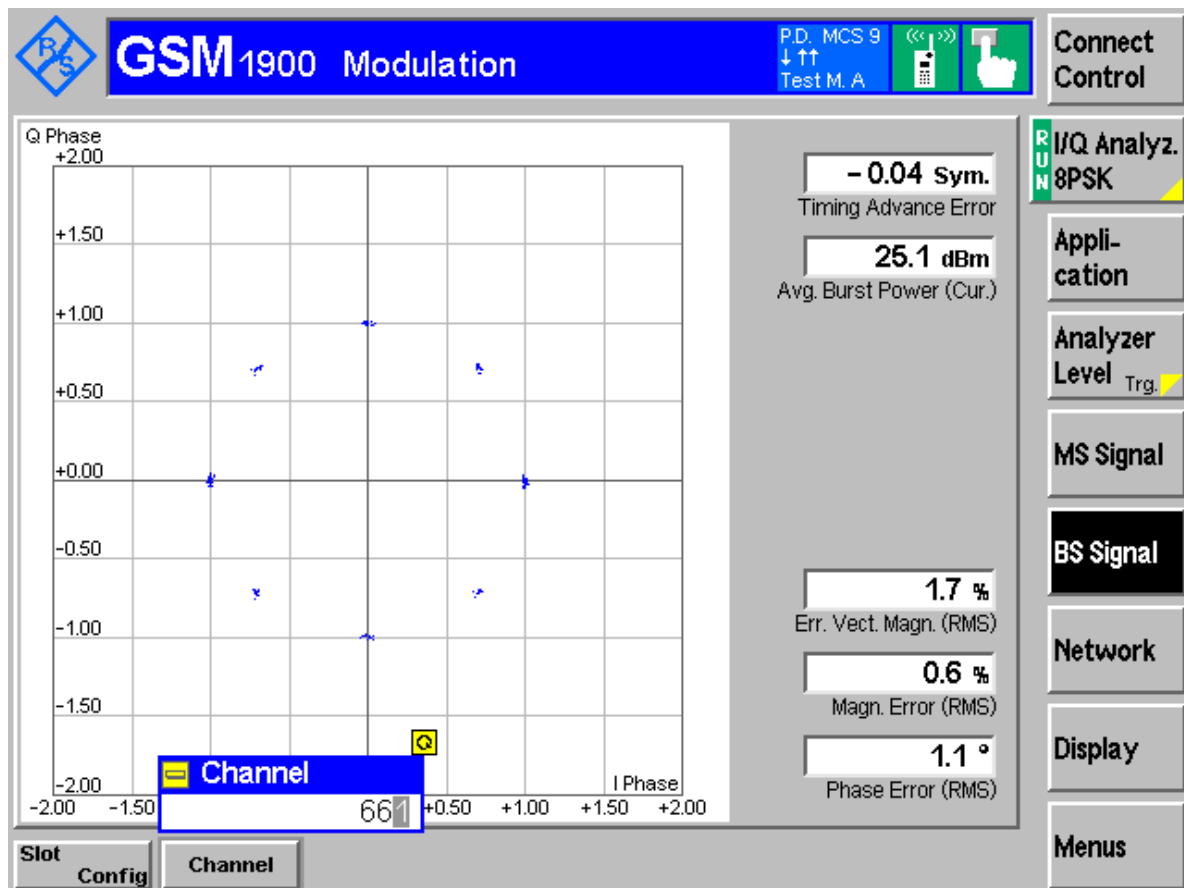


TM1:GPRS/GSM Channel 661





TM2:EDGE Channel 661



-----The END-----



Appendix C

Occupied Bandwidth According to FCC Part 2.1049 & Part24 Subpart E



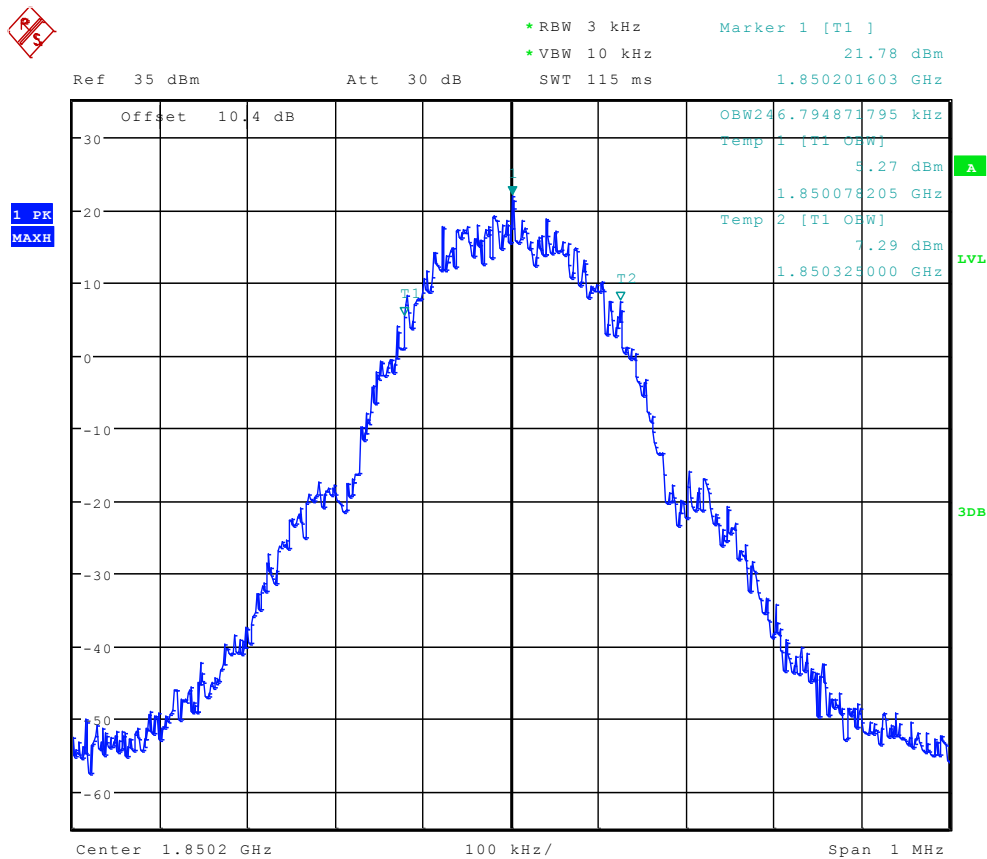
Result Table

Table 1 Measurement Results

Test Mode	RF Channel	Occupied Bandwidth [kHz]	Verdict
TM1	512	246.79	Pass
	661	243.59	Pass
	810	245.19	Pass
TM2	512	245.19	Pass
	661	245.19	Pass
	810	246.79	Pass



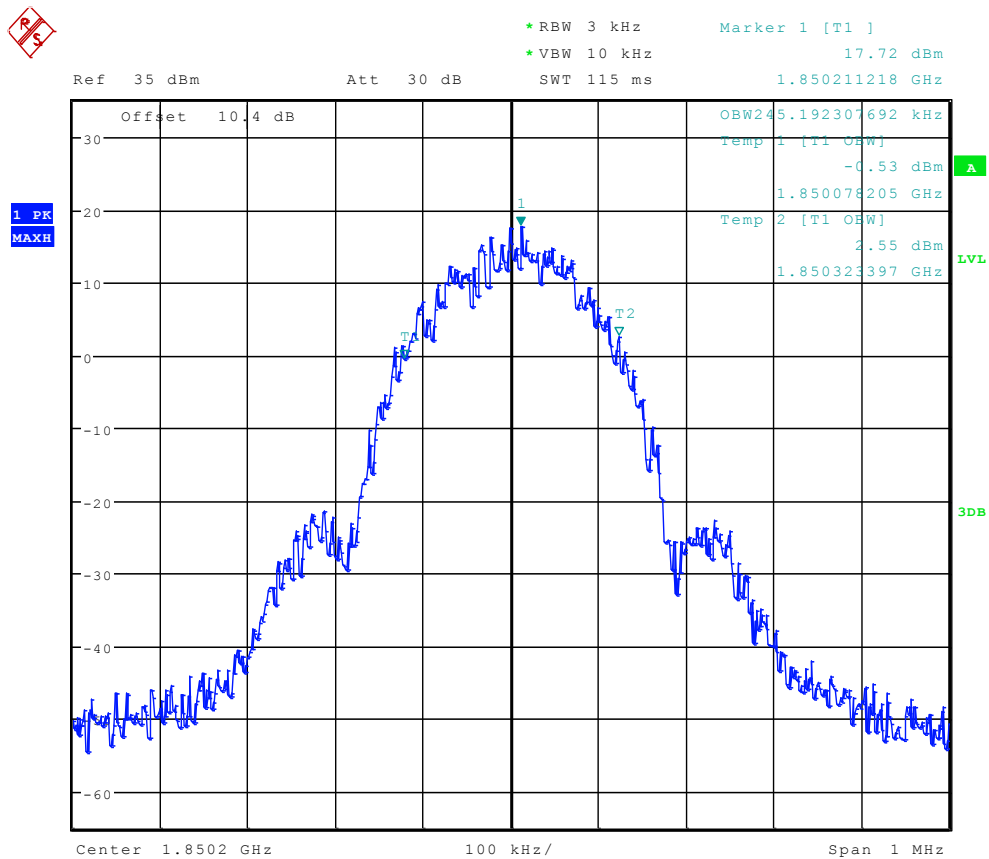
TM1:GPRS/GSM Channel 512



Date: 27.JAN.2012 11:34:29



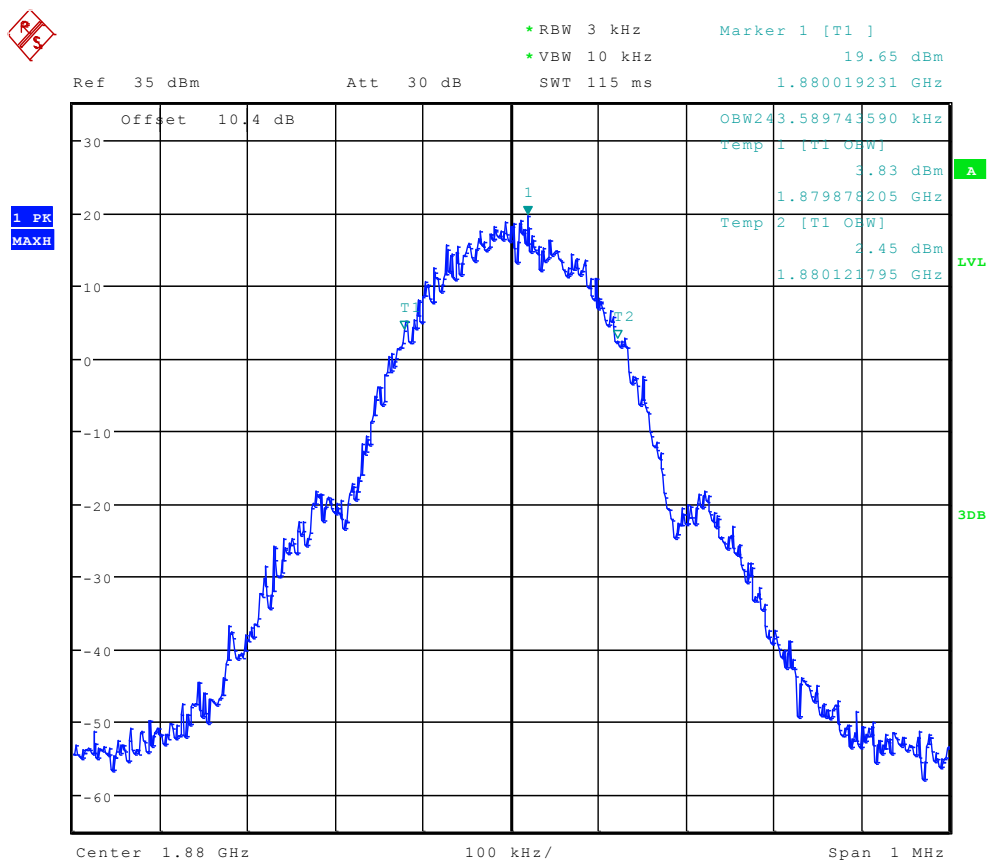
TM2:EDGE Channel 512



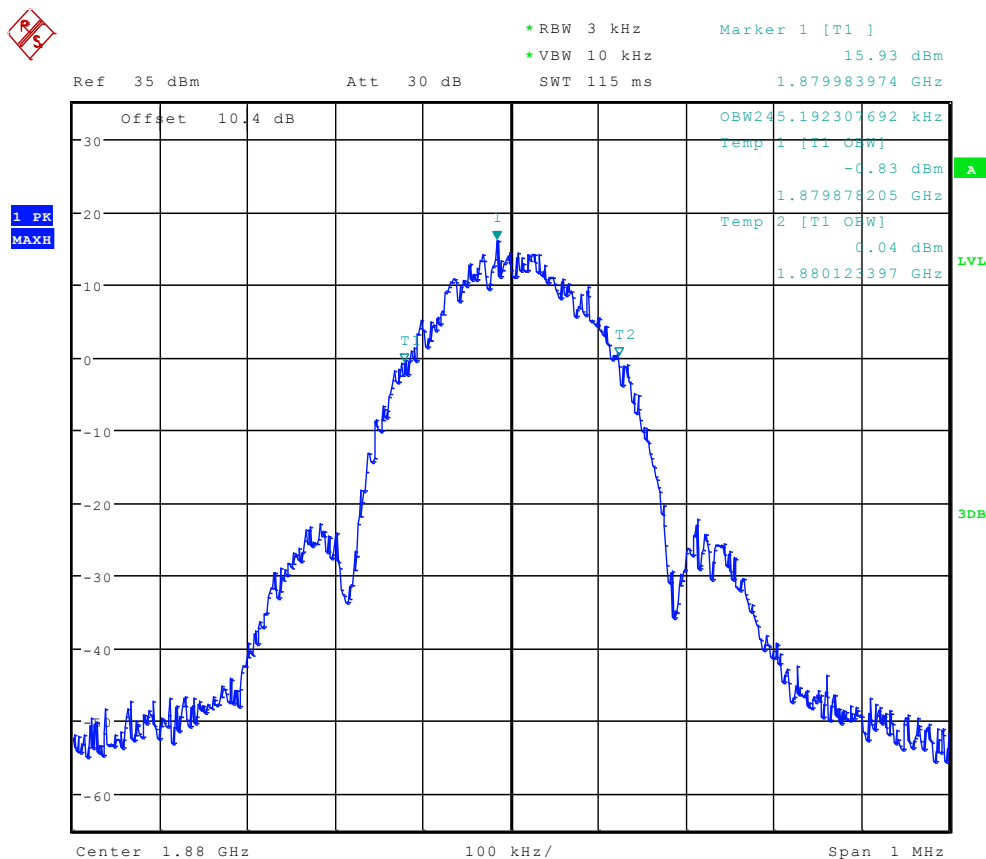
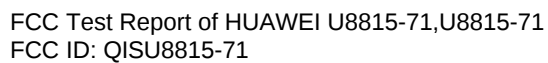
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TM1:GPRS/GSM Channel 661



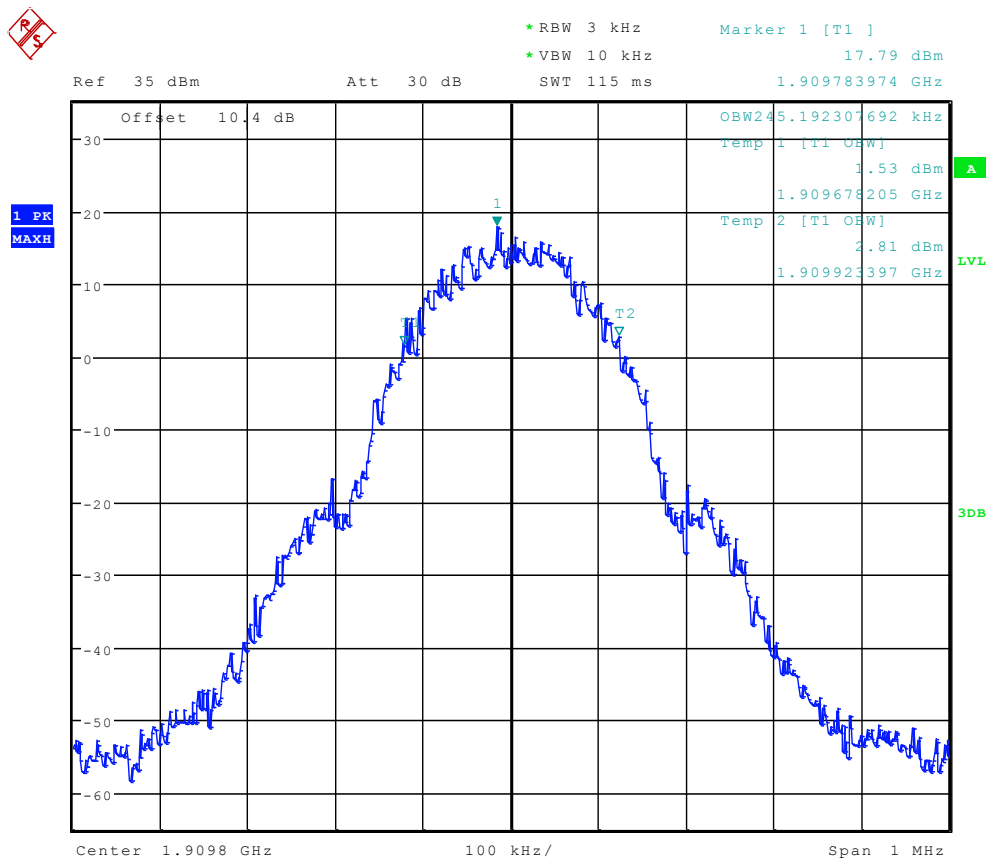
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Date: 27.JAN.2012 11:43:43



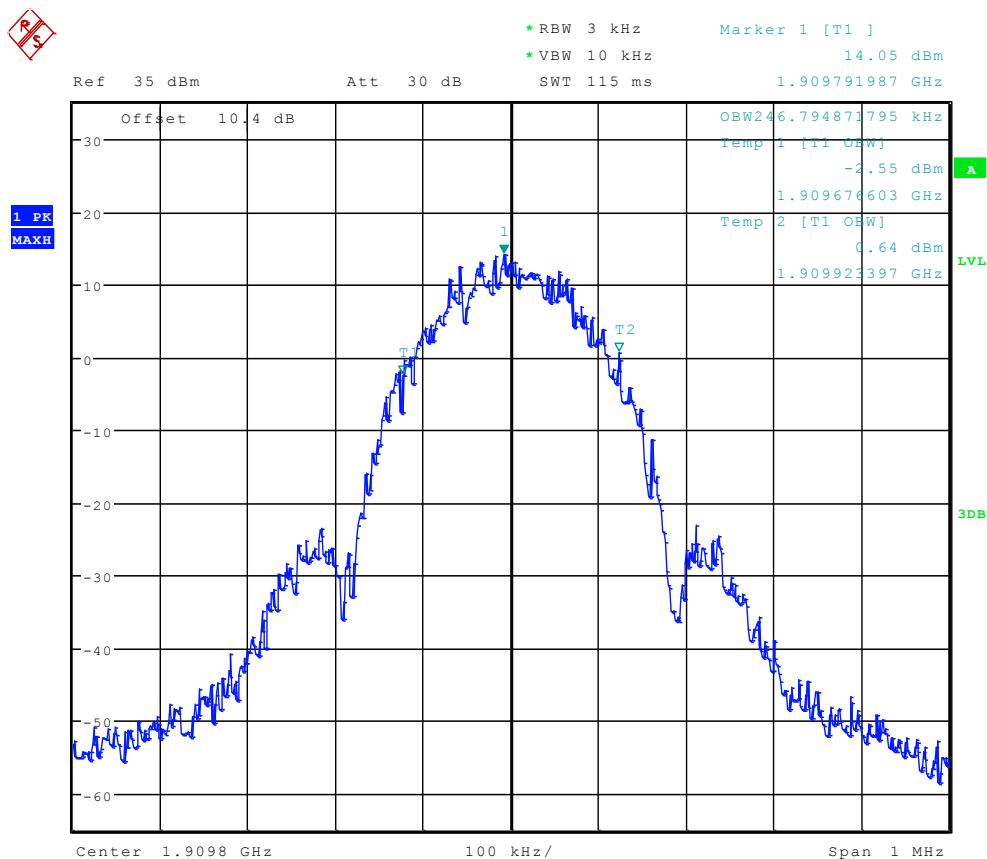
TM1:GPRS/GSM Channel 810



Date: 27.JAN.2012 11:34:57



TM2:EDGE Channel 810



Date: 27.JAN.2012 11:43:56

-----The END-----



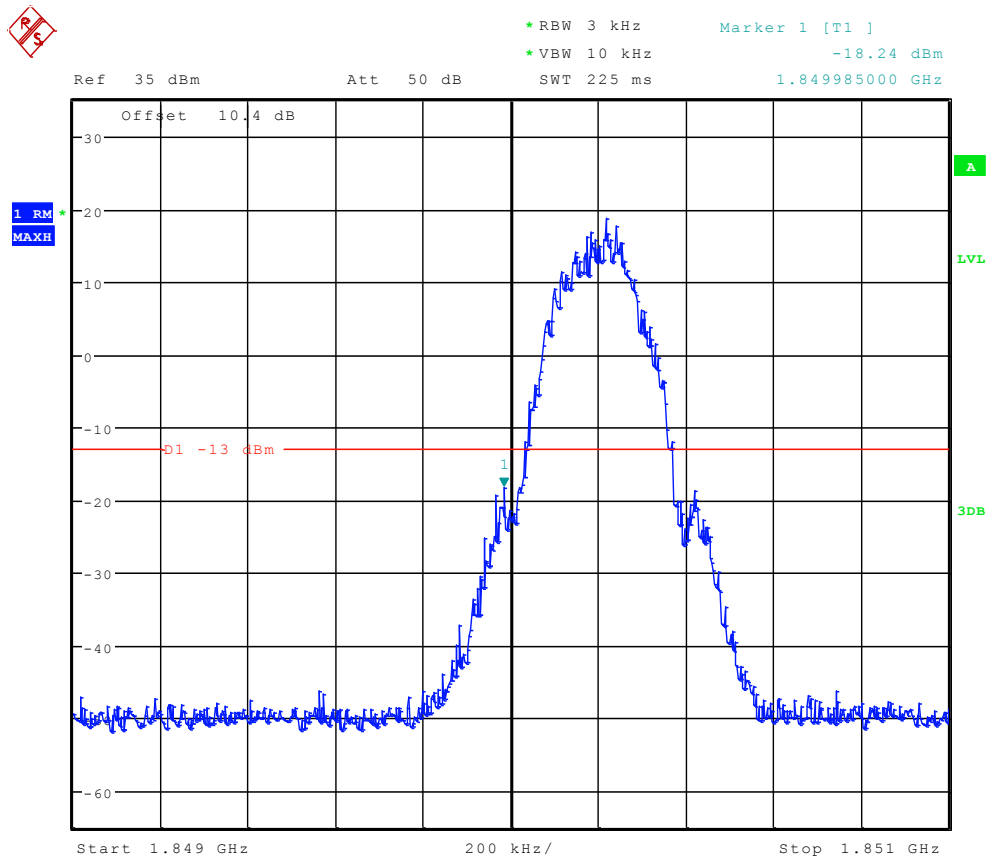
Appendix D

Band Edges Compliance

According to FCC Part 2.1051 & Part24 Subpart E



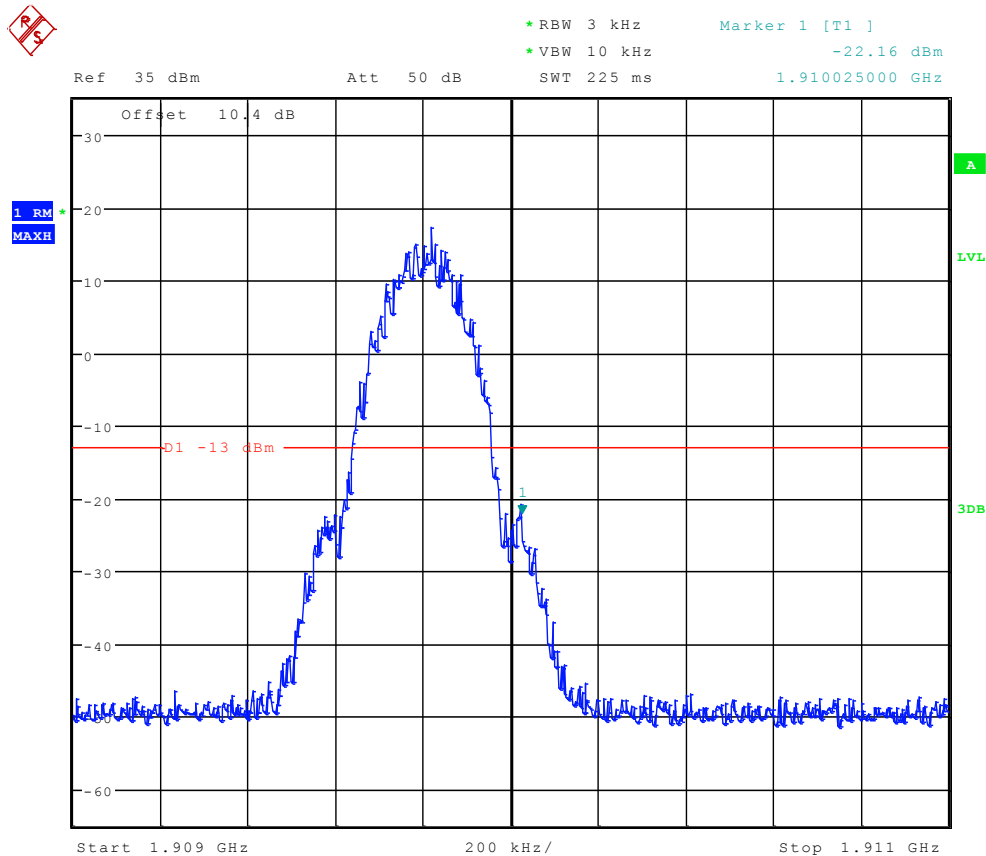
TM1:GPRS/GSM Left Edge Channel 512



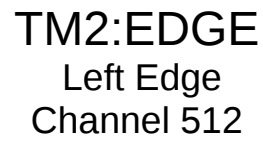
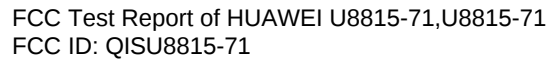
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Right Edge Channel 810

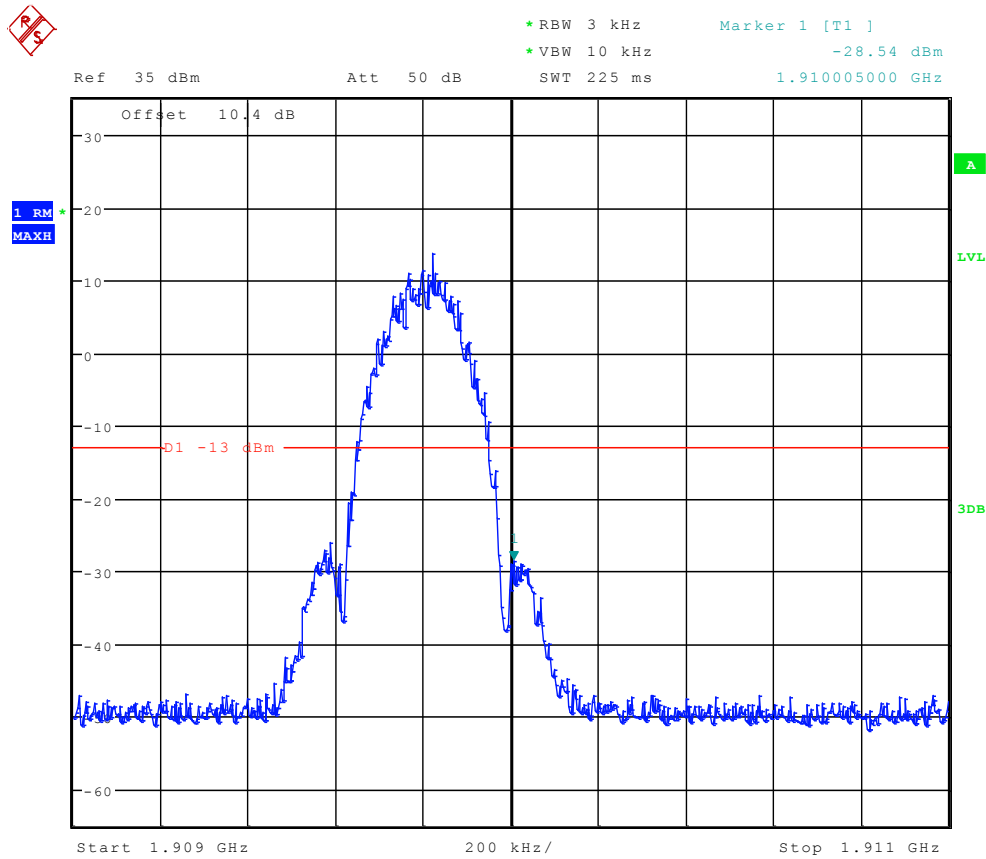


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Right Edge Channel 810



Date: 27.JAN.2012 11:47:07

-----The END-----



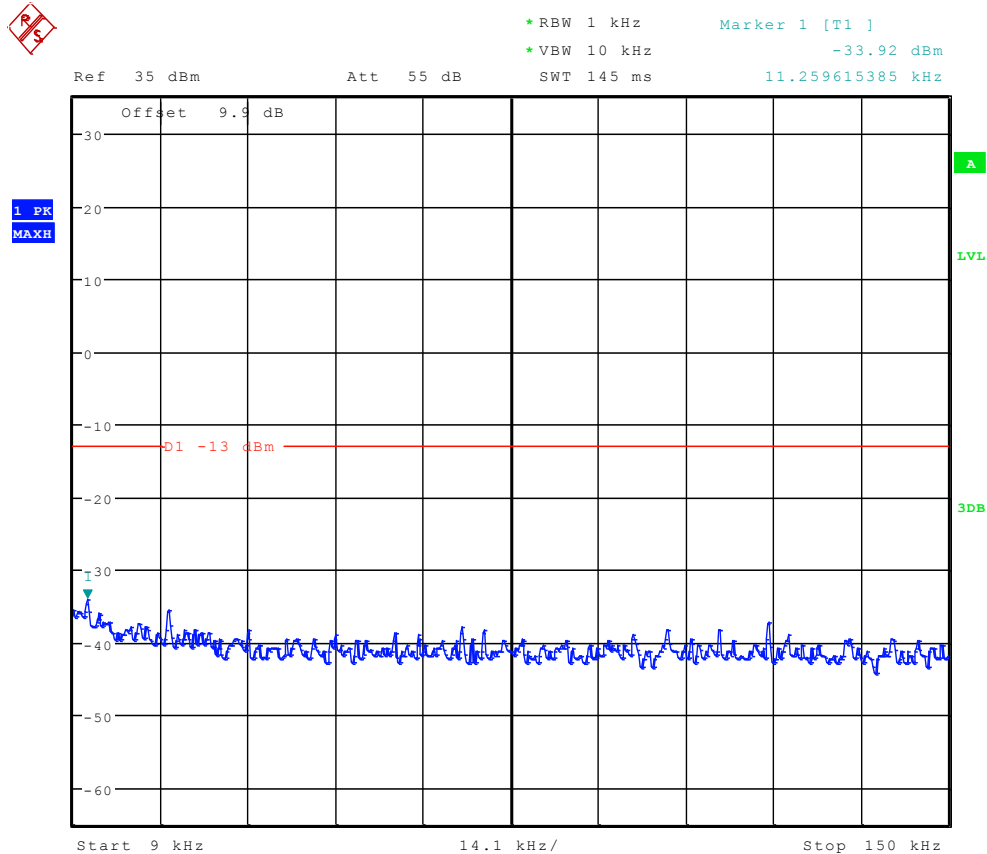
Appendix E

Spurious Emission at Antenna Terminal

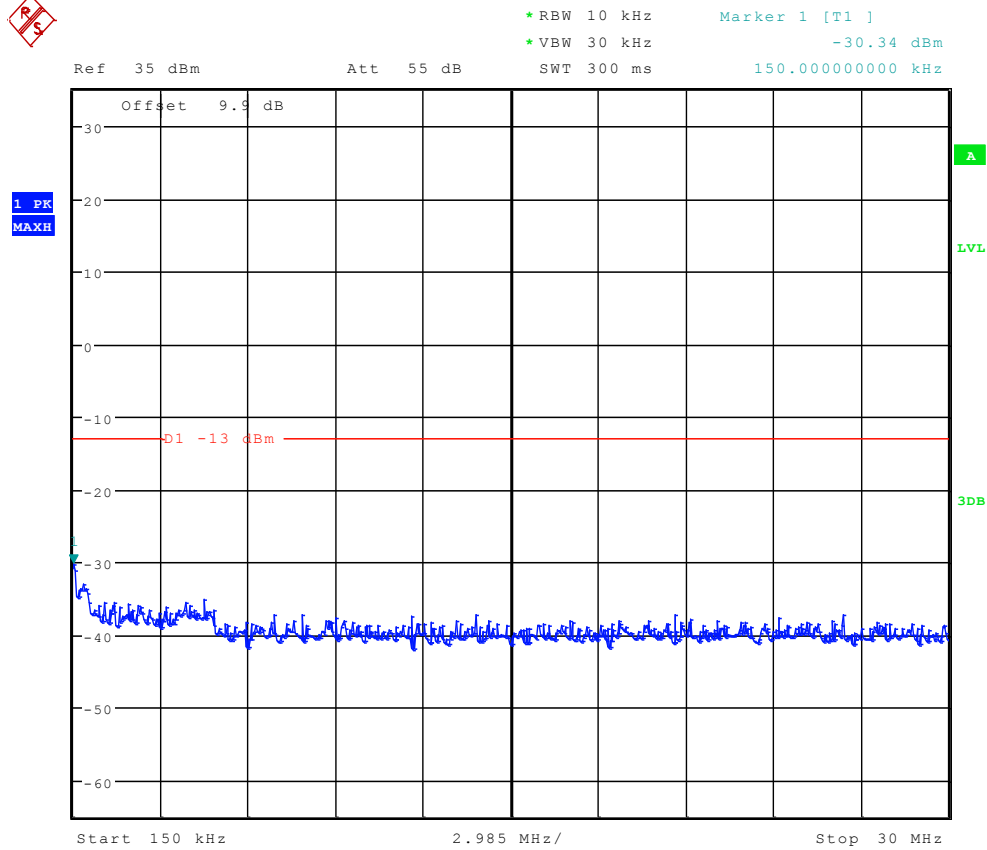
According to FCC Part 2.1051 & Part24 Subpart E



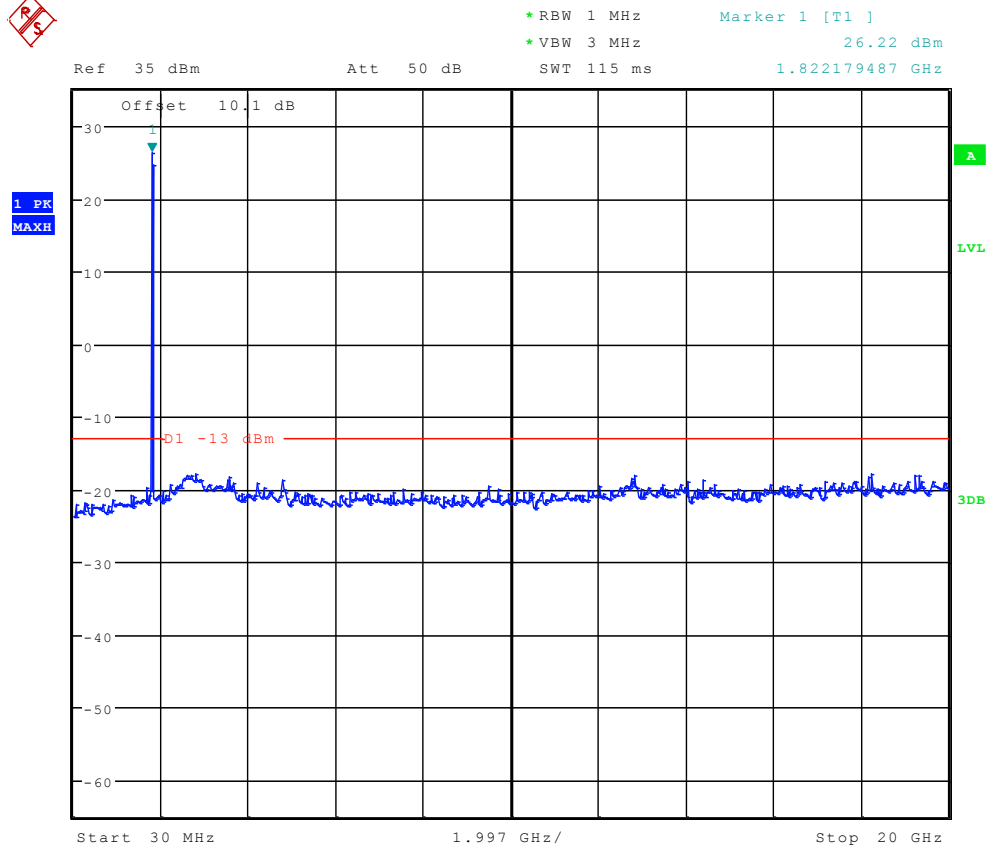
TM1:GPRS/GSM Channel 512



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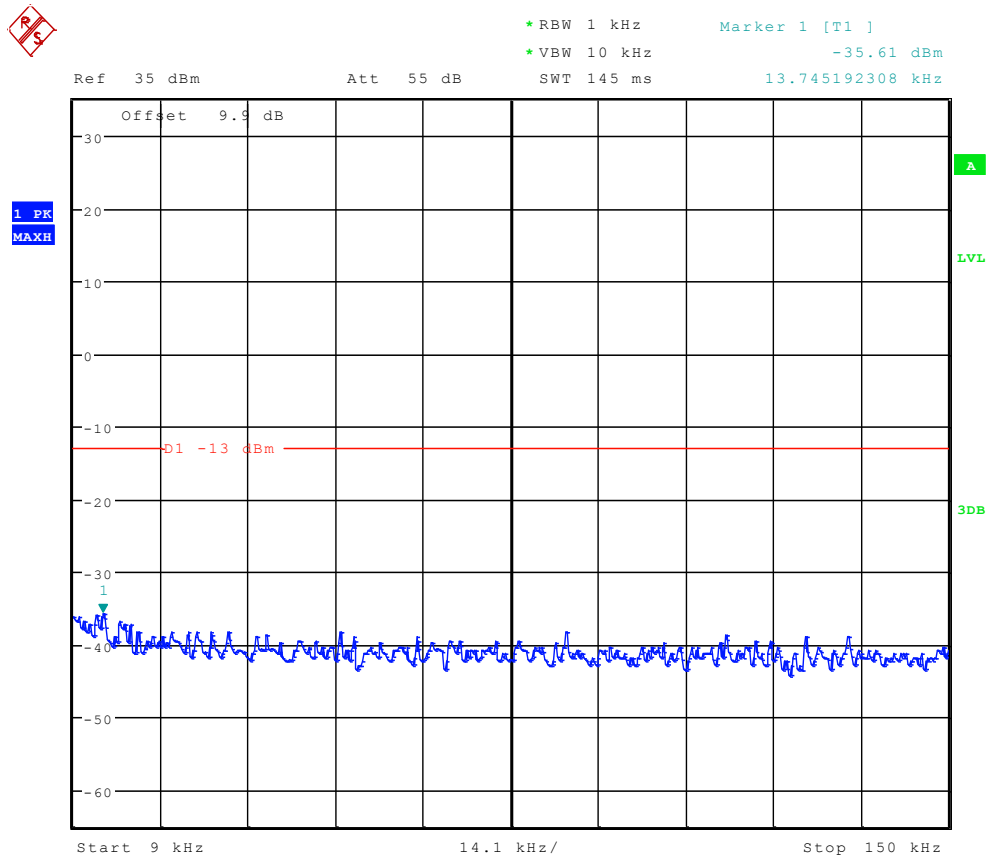


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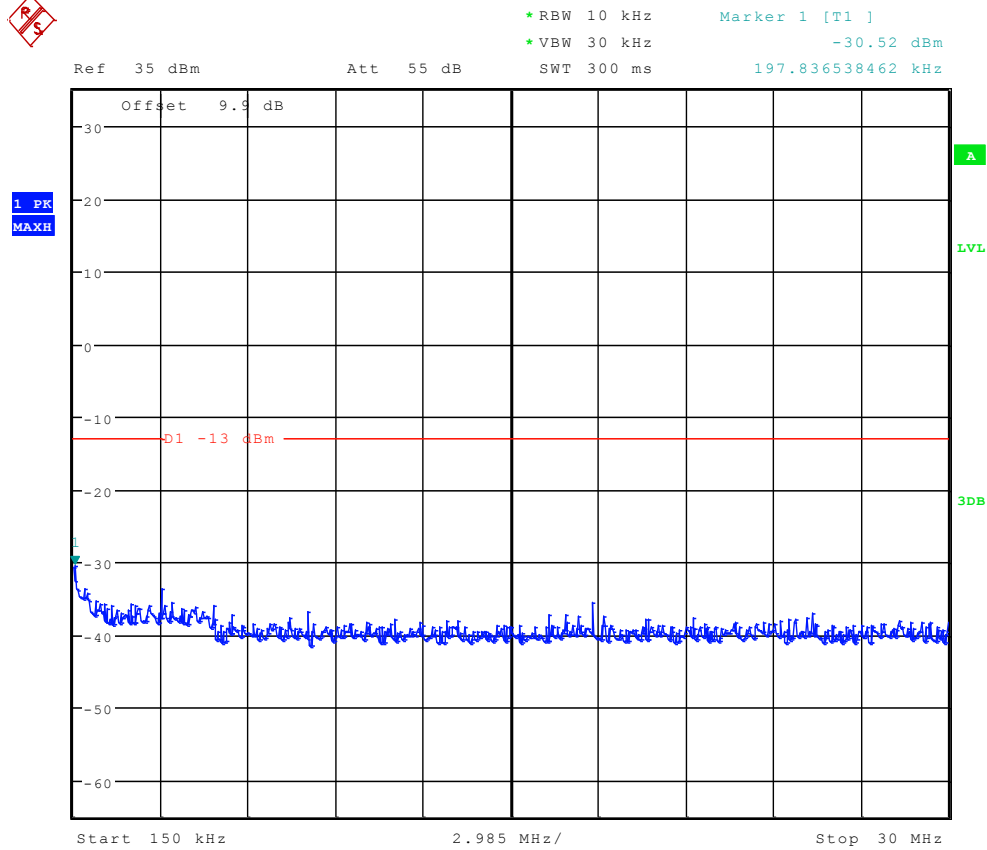




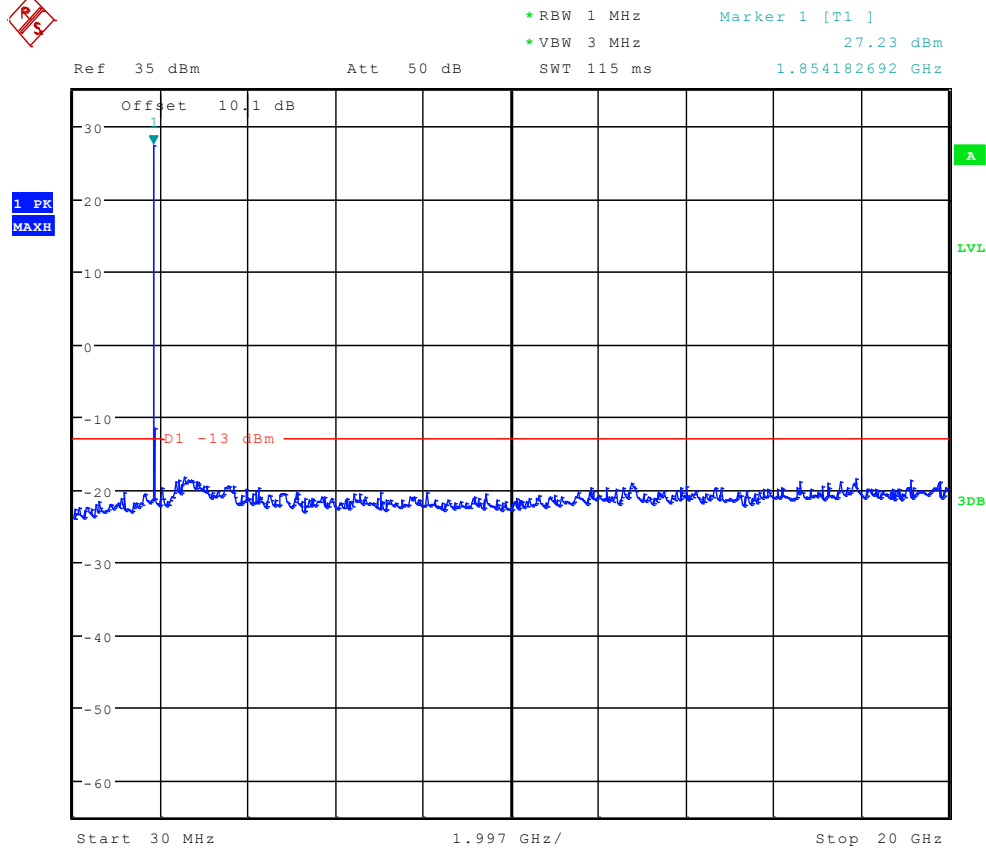
Channel 661



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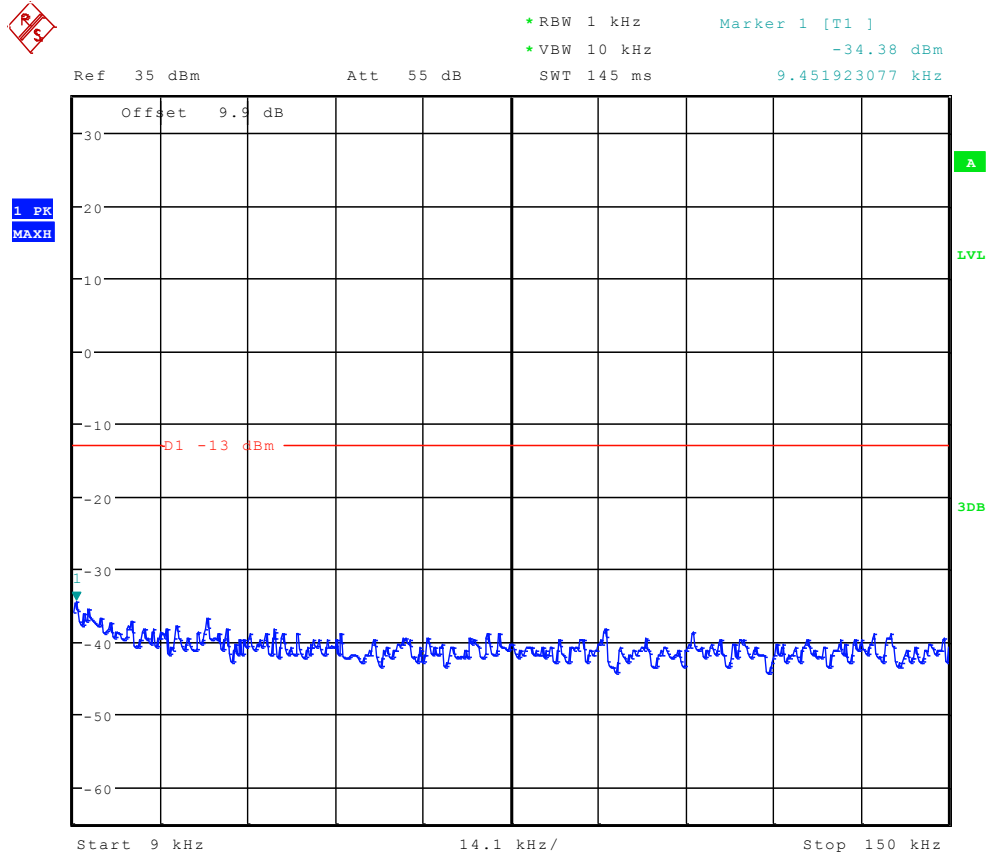
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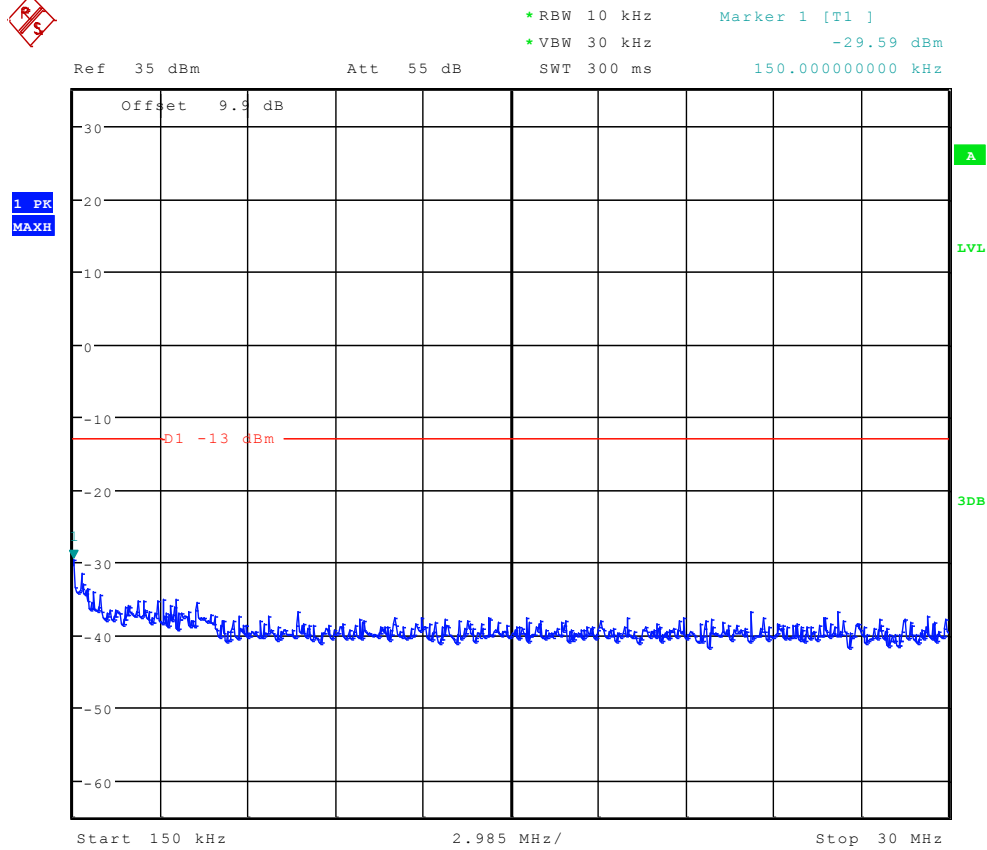
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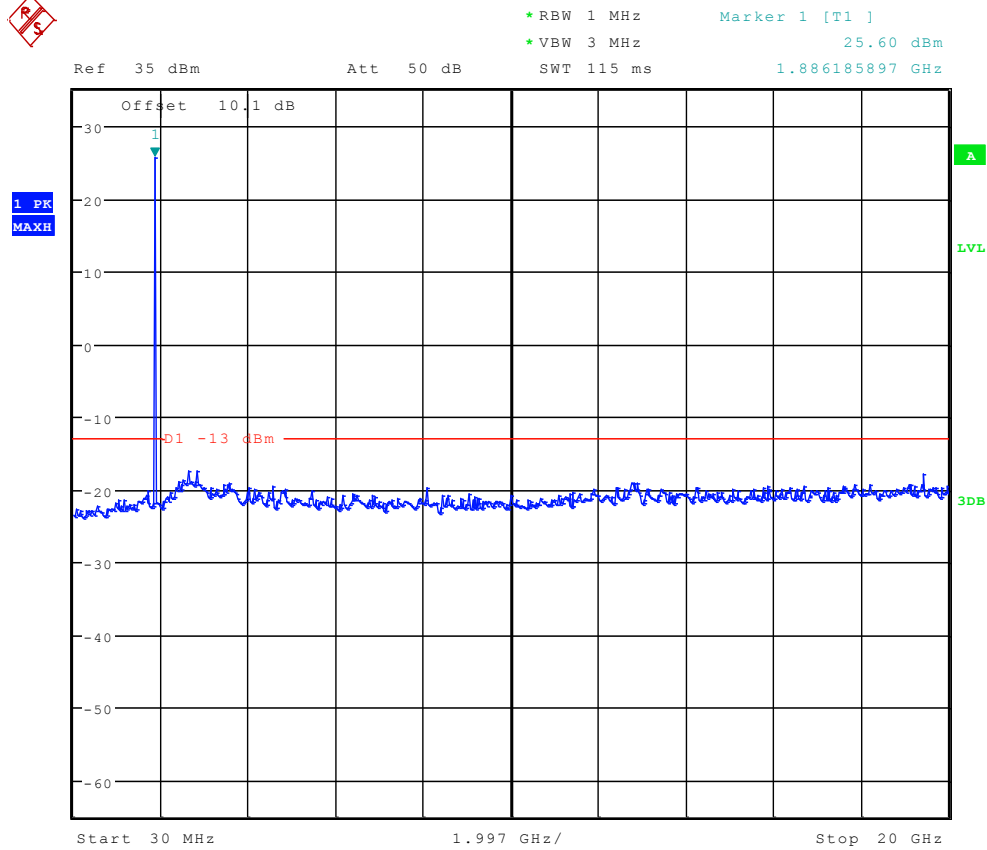
Channel 810



Date: 27.JAN.2012 11:35:41



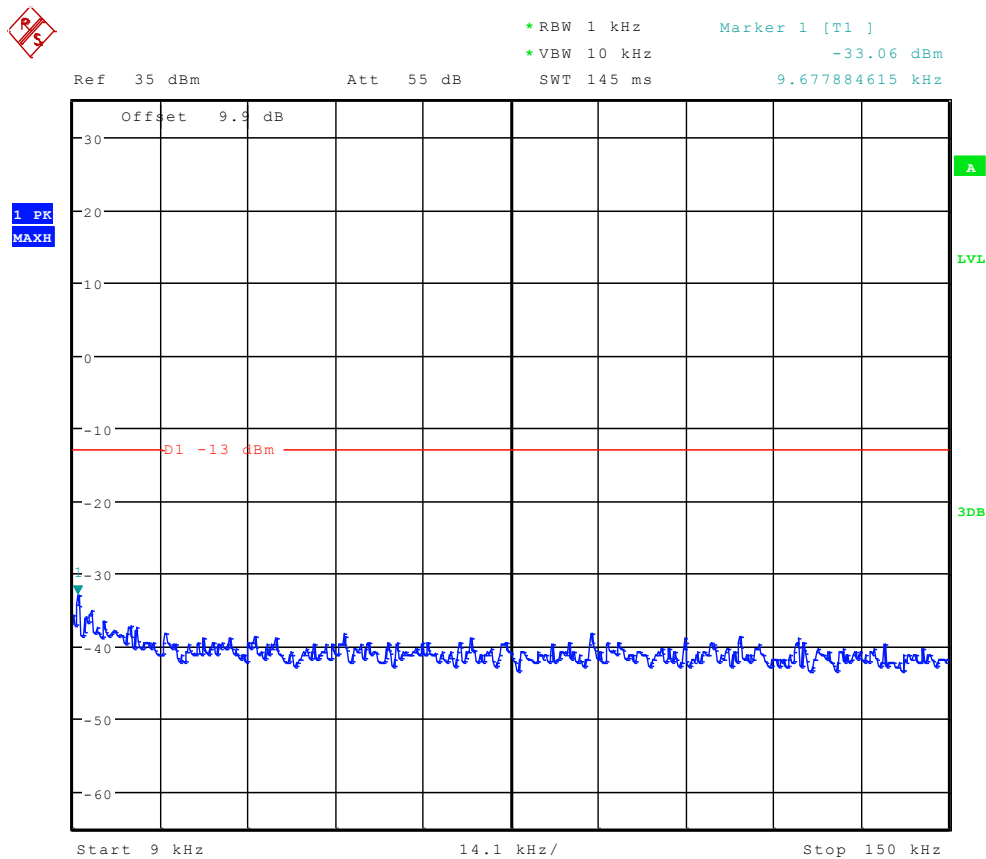
Date: 27.JAN.2012 11:36:25



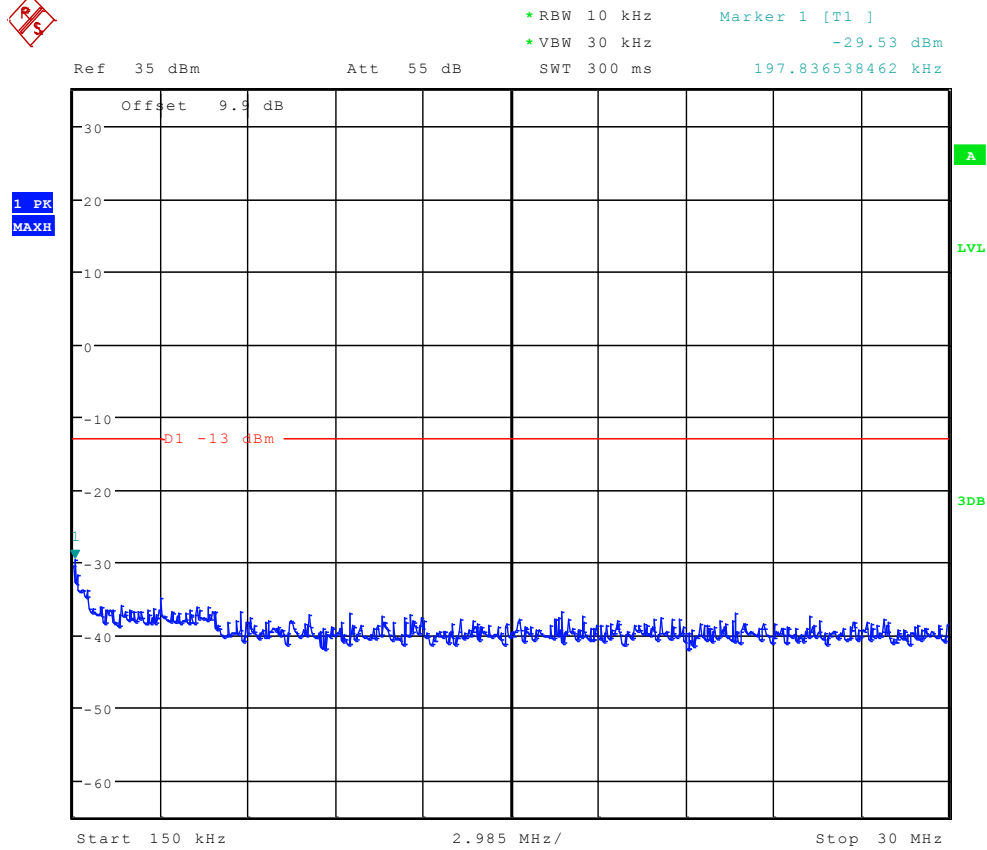
Date: 27.JAN.2012 11:37:09



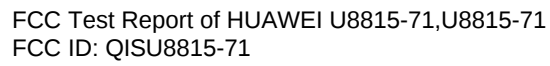
TM2:EDGE Channel 512



Date: 27.JAN.2012 11:44:11



Date: 27.JAN.2012 11:44:55

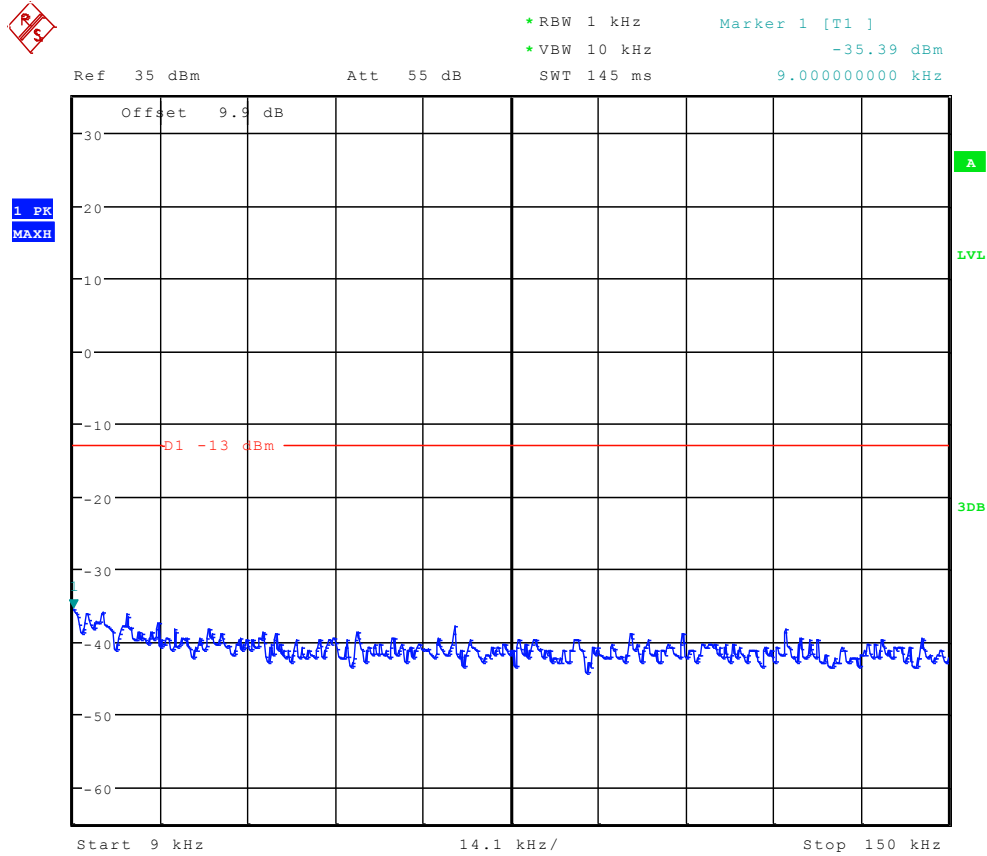


Ref	35 dBm	Att	50 dB	SWT	115 ms	1.822179487 GHz
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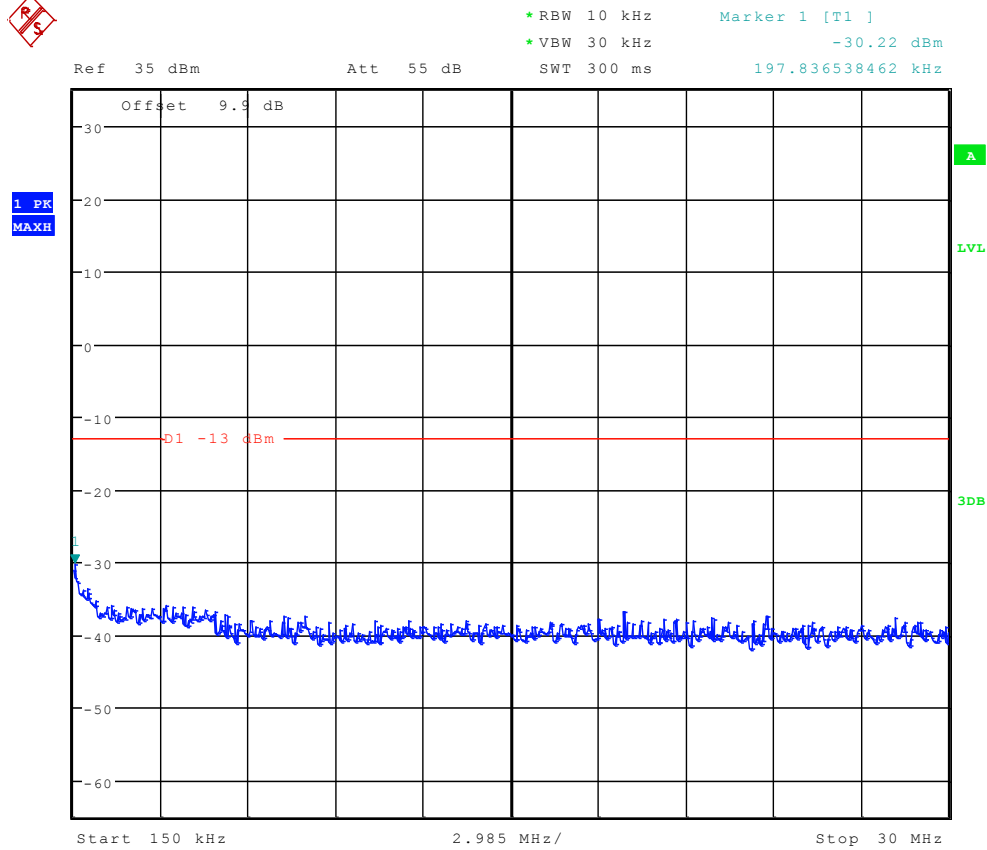




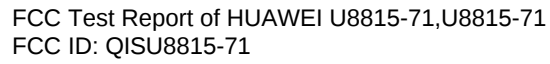
Channel 661



Date: 27.JAN.2012 11:44:26



Date: 27.JAN.2012 11:45:09

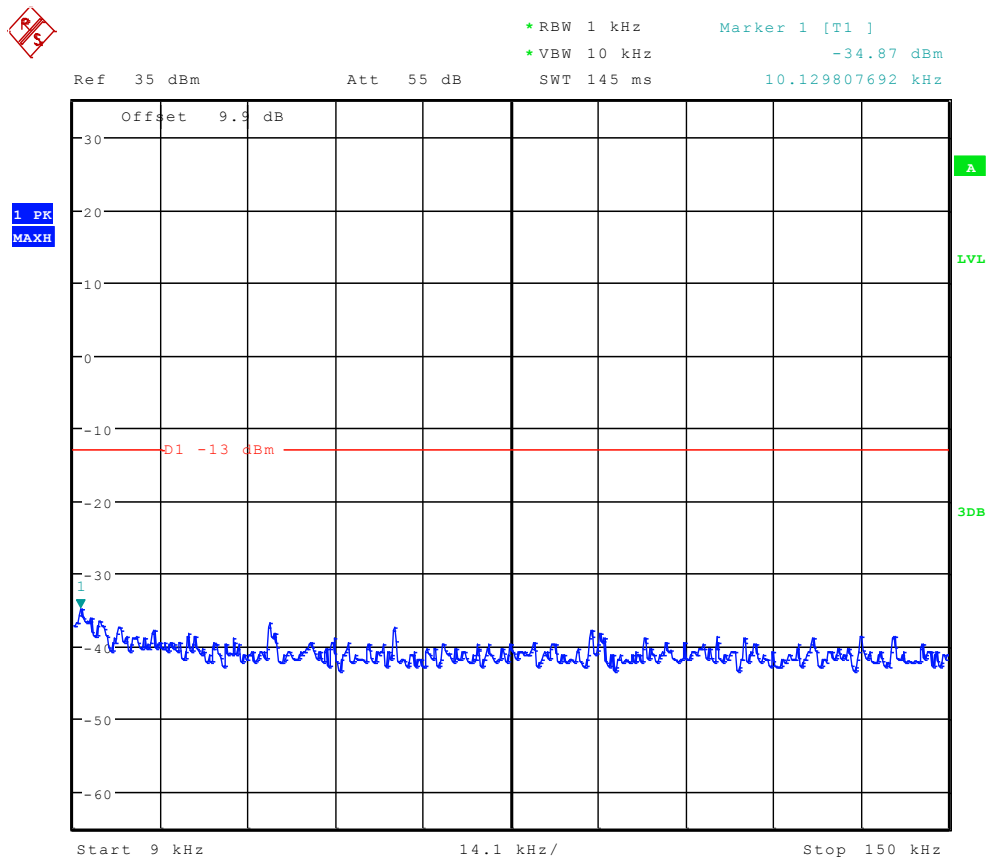


Ref	35 dBm	Att	50 dB	SWT	115 ms	1.854182692 GHz
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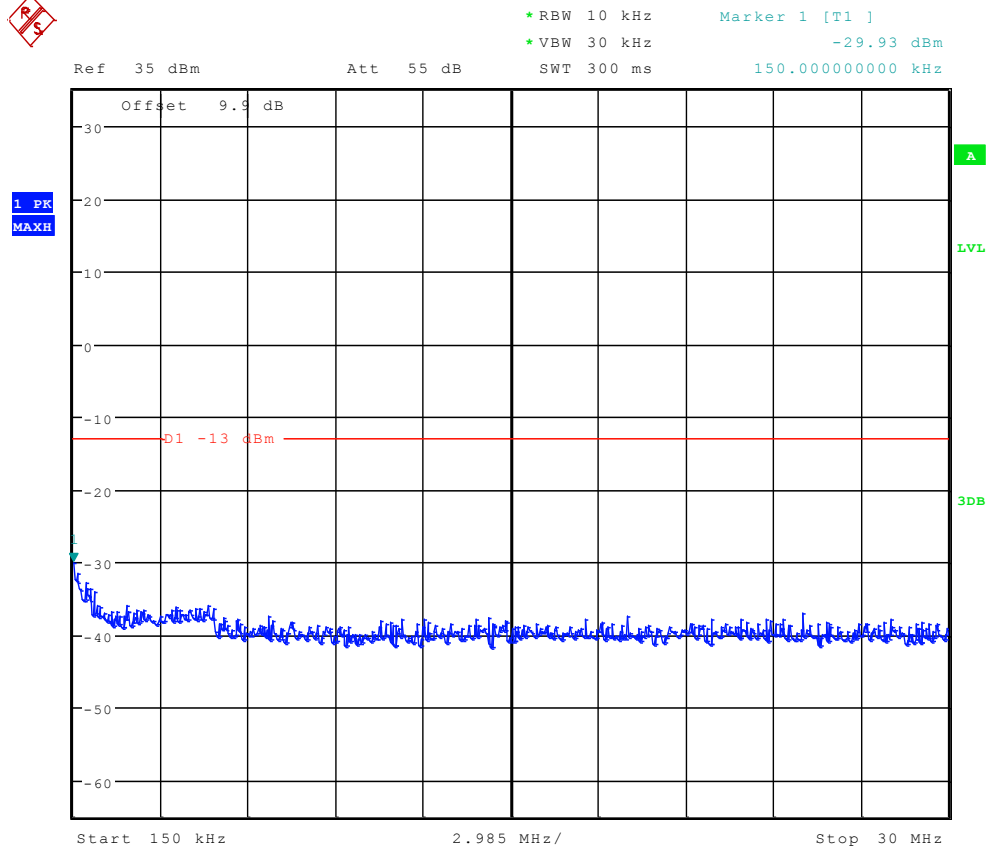




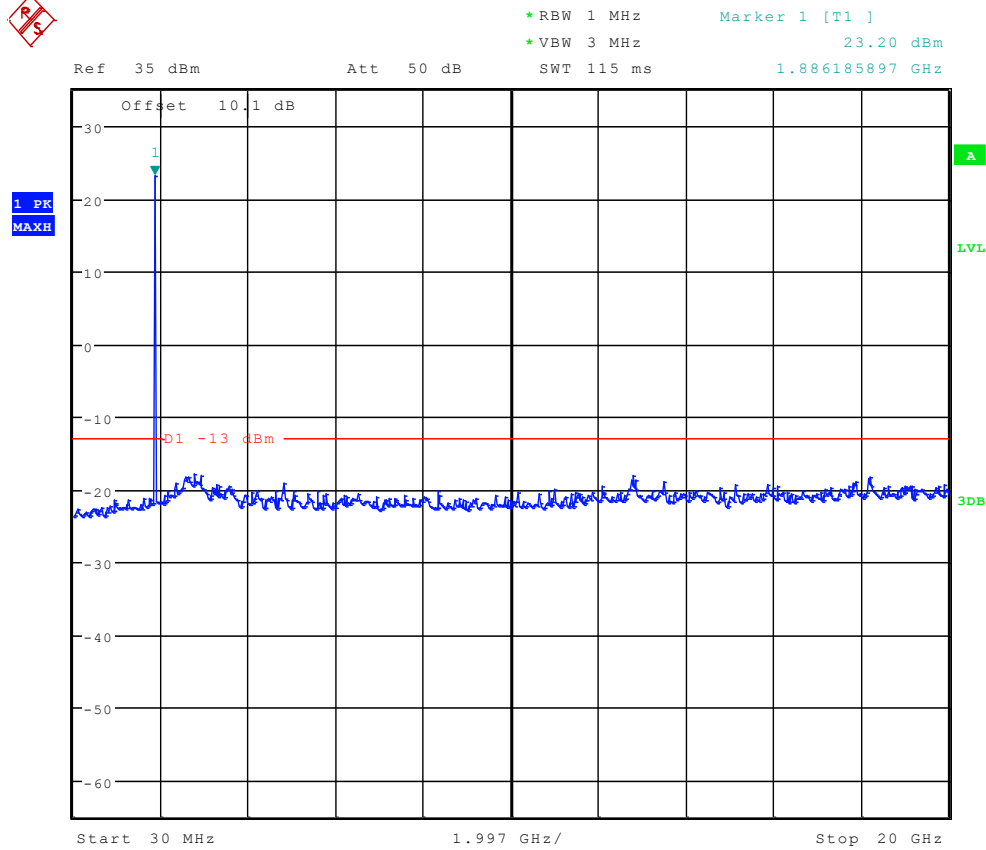
Channel 810



Date: 27.JAN.2012 11:44:40



Date: 27.JAN.2012 11:45:24



Date: 27.JAN.2012 11:46:08

-----The END-----



Appendix F

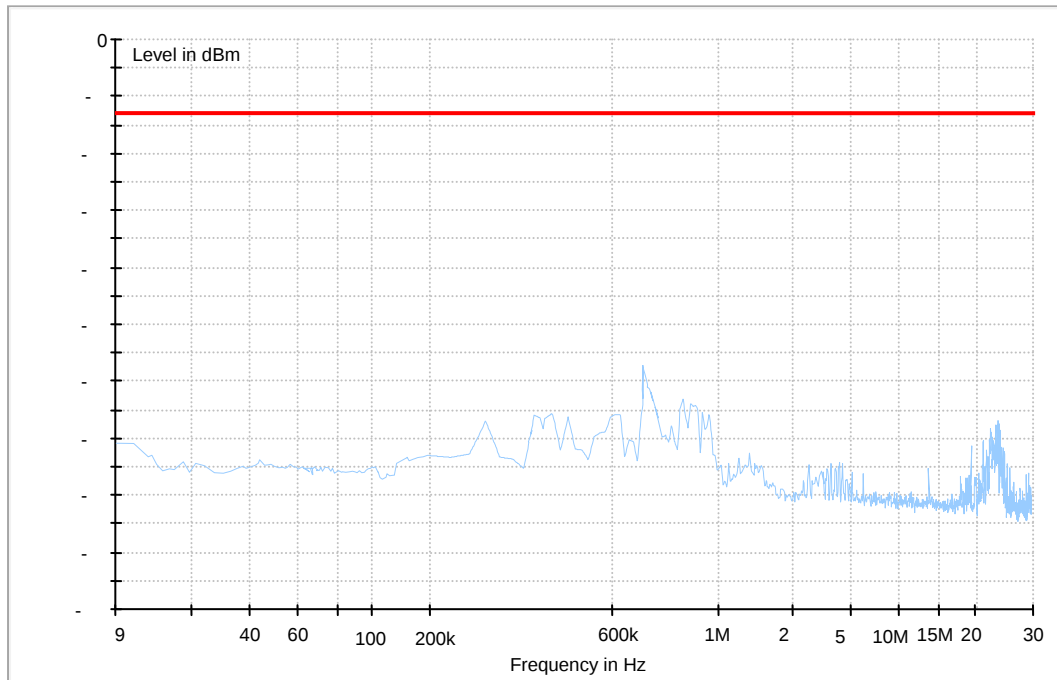
Field Strength of Spurious Emissions

According to FCC Part 2.1053 & Part24.238



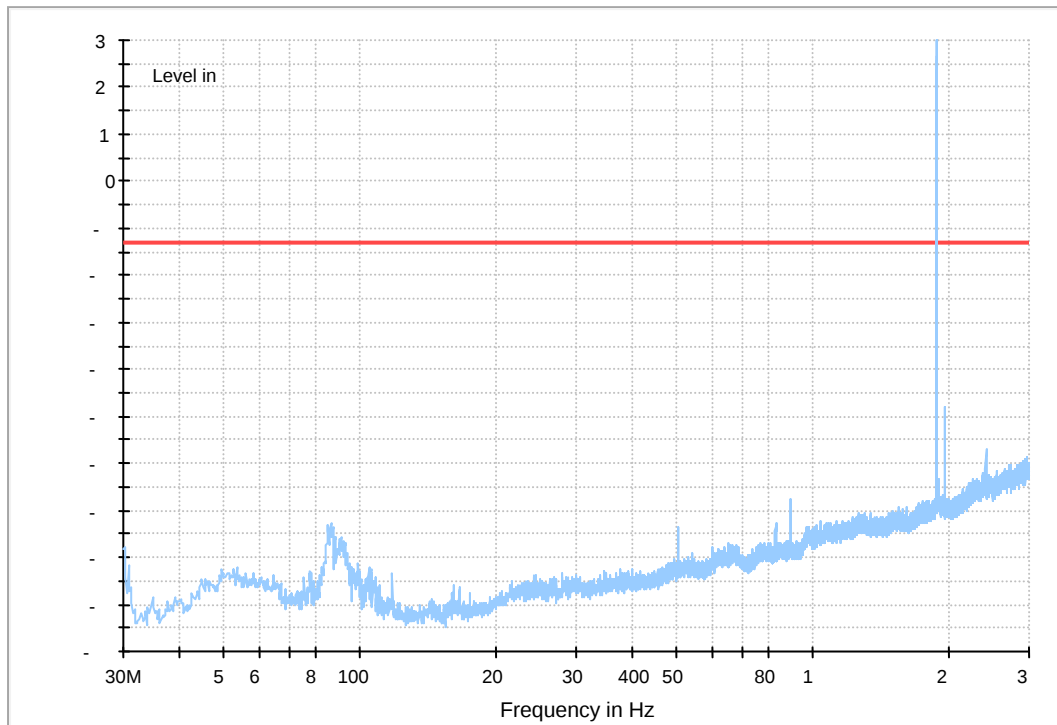
GSM 1900

Traffic Mode (9kHz-30MHz)



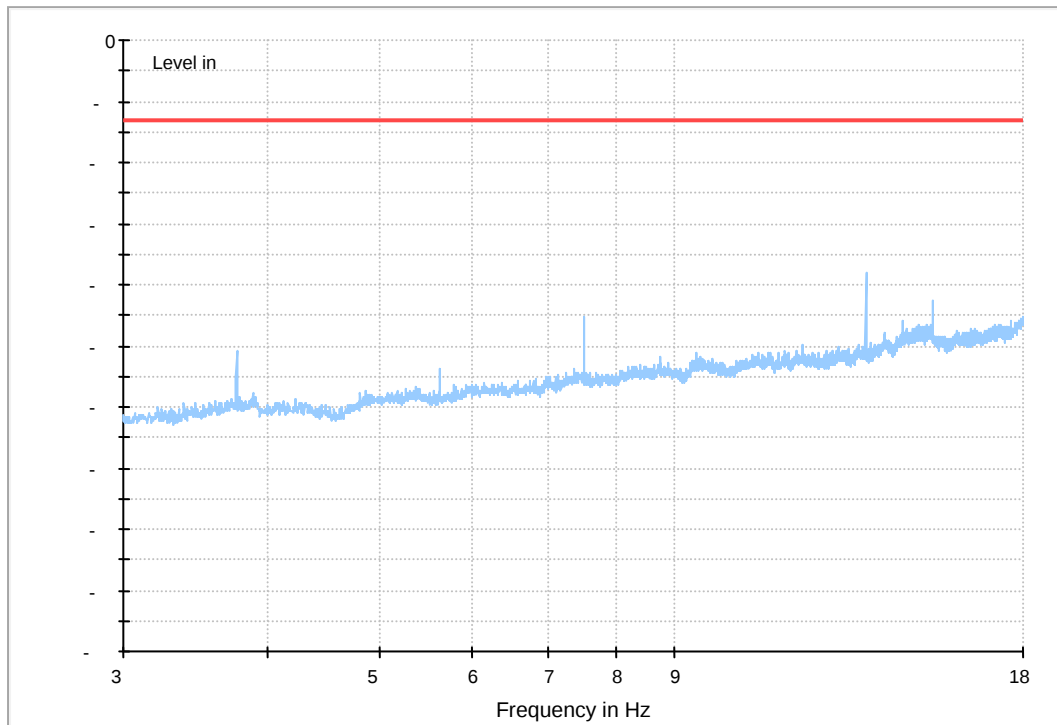


Traffic Mode (30MHz-3GHz)



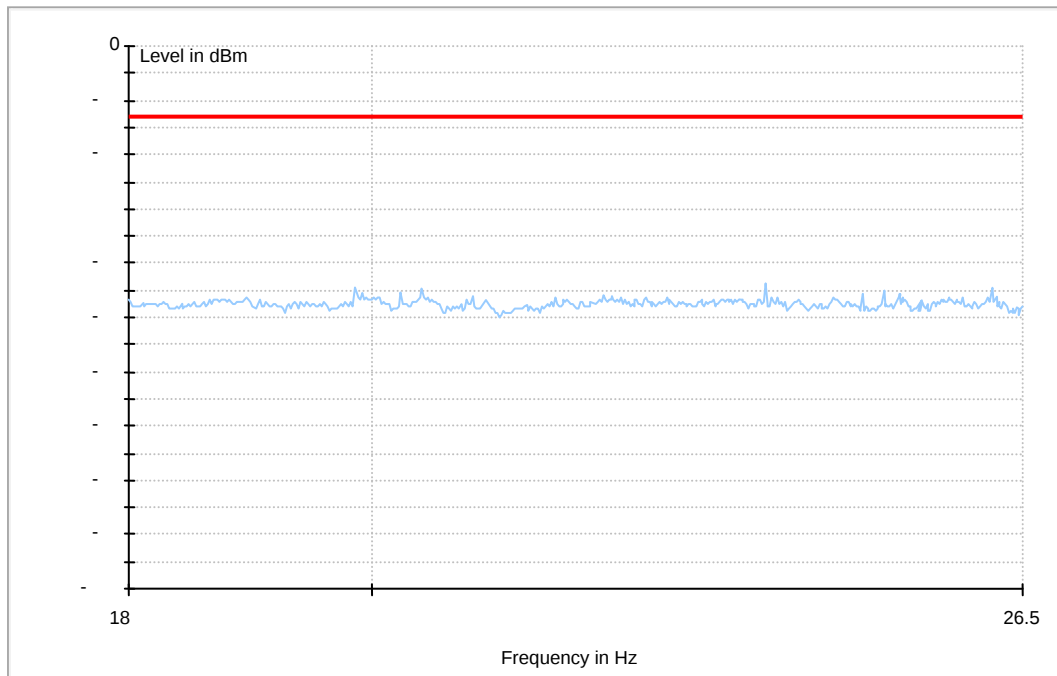


Traffic Mode (3GHz-18GHz)





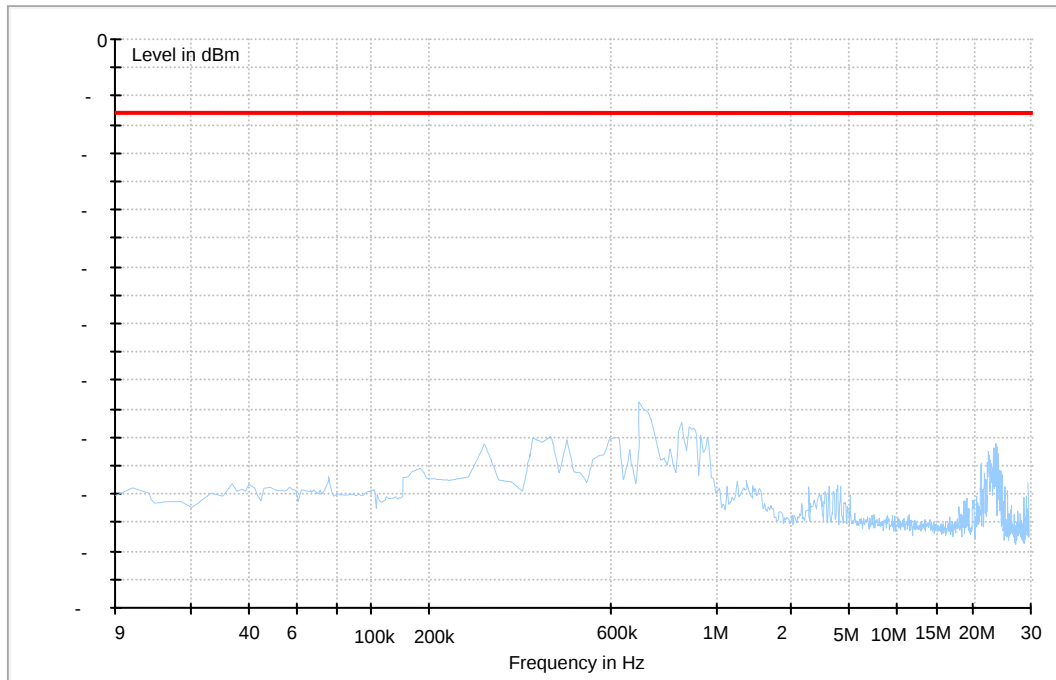
Traffic Mode (18GHz-26.5GHz)





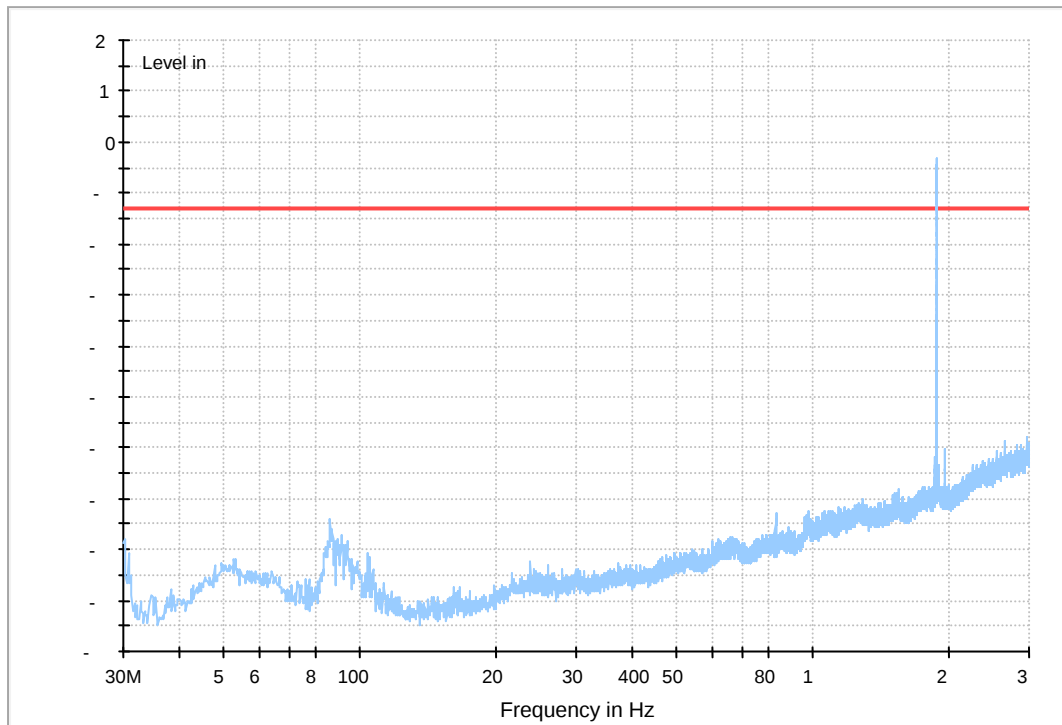
GPRS1900

Traffic Mode (9kHz-30MHz)



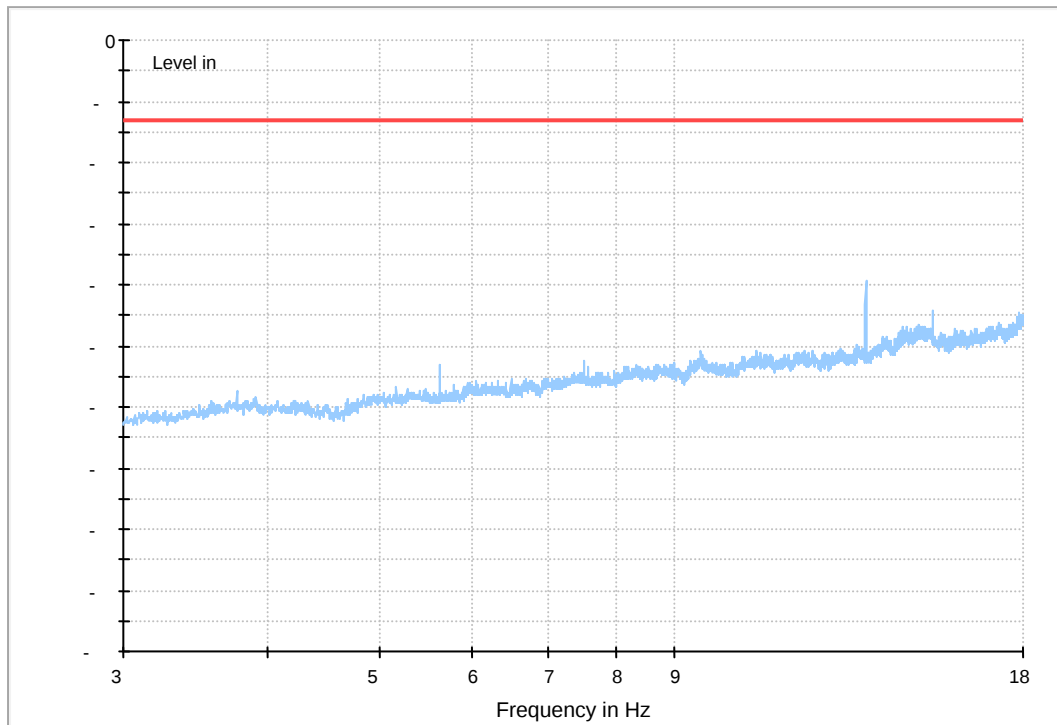


Traffic Mode (30MHz-3GHz)



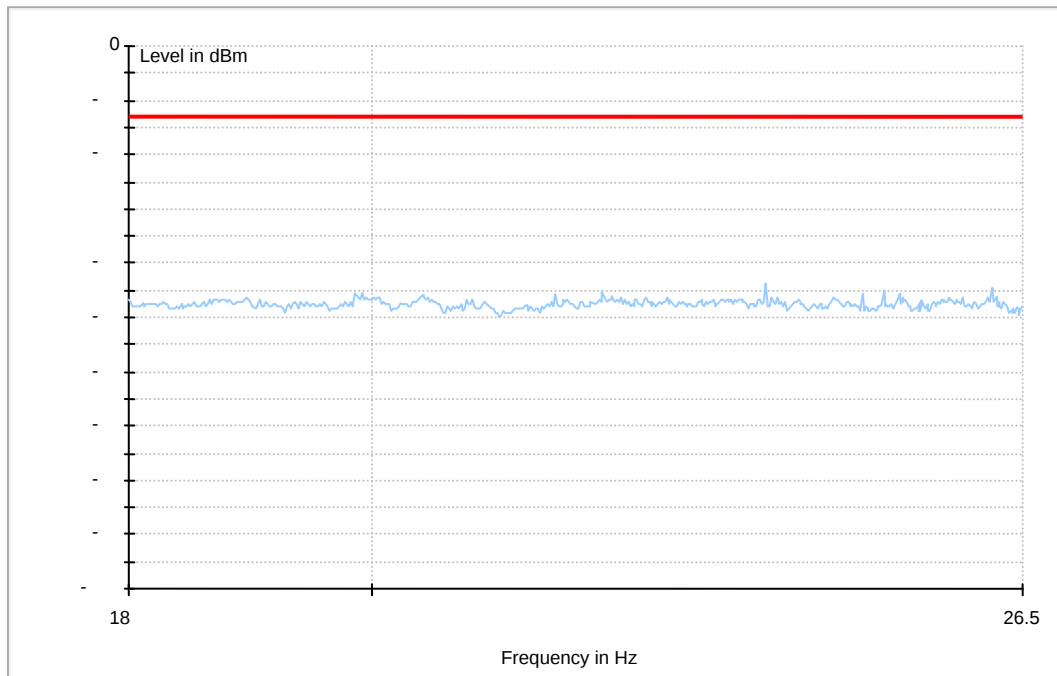


Traffic Mode (3GHz-18GHz)





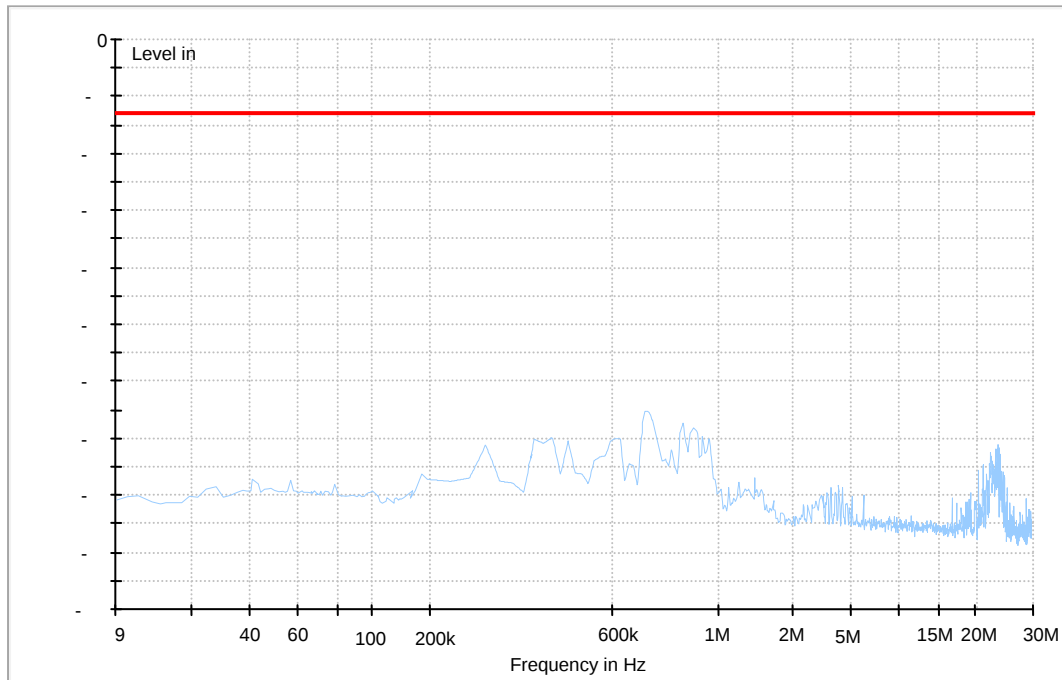
Traffic Mode (18GHz-26.5GHz)





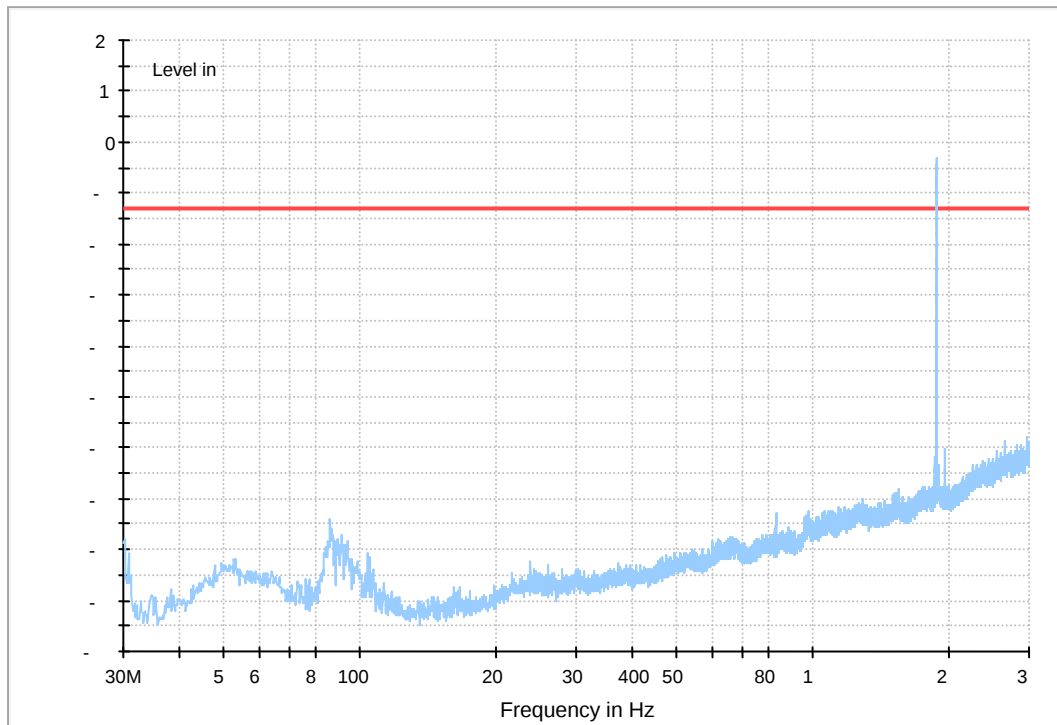
EDGE 1900

Traffic Mode (9kHz-30MHz)



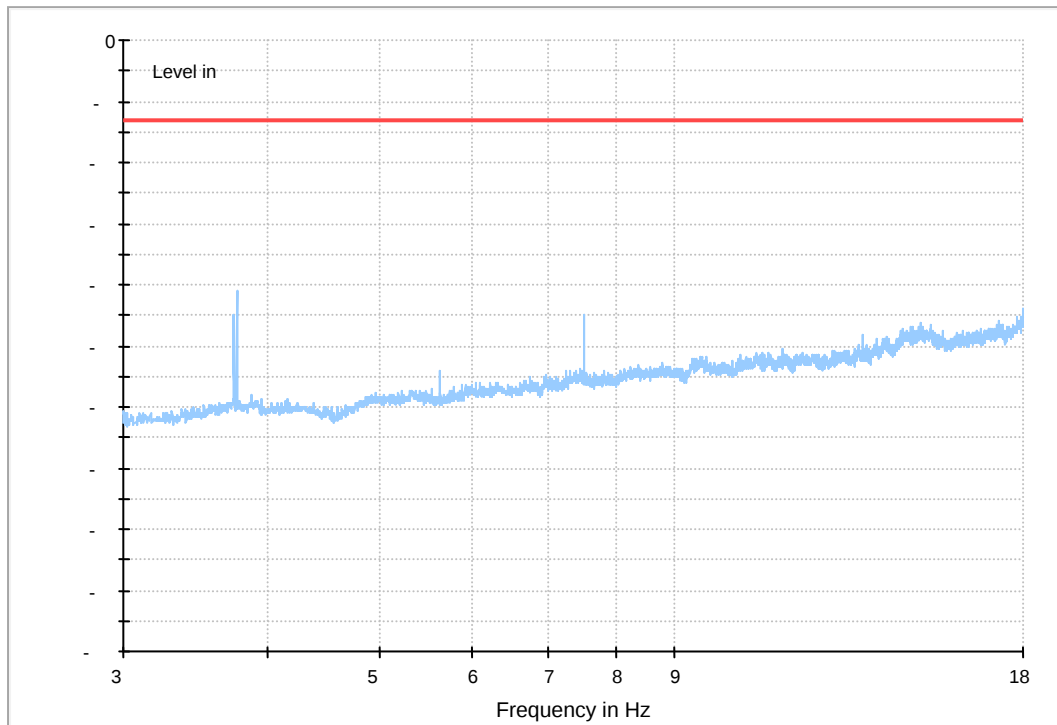


Traffic Mode (30MHz-3GHz)



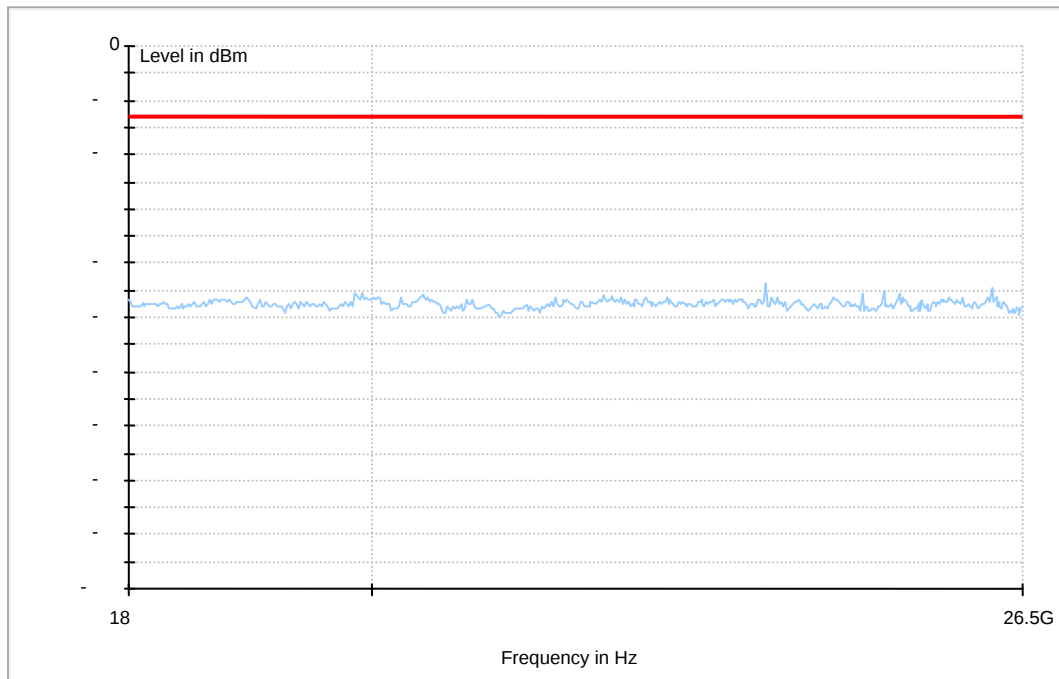


Traffic Mode (3GHz-18GHz)





Traffic Mode (18GHz-26.5GHz)



-----The END-----



Appendix G

Frequency Stability

According to FCC Part 2.1055& Part 24.235



Frequency Error vs. Temperature:

Test Mode	RF Ch.	Volt.	Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM 1	M	100%	-30 °C	15	0.0080	---	±2.5	Pass
			-20 °C	-16	-0.0085	---	±2.5	Pass
			-10 °C	18	0.0096	---	±2.5	Pass
			0 °C	-11	-0.0059	---	±2.5	Pass
			10 °C	7	0.0037	---	±2.5	Pass
			20 °C	-14	-0.0074	---	±2.5	Pass
			30 °C	17	0.0090	---	±2.5	Pass
			40 °C	-11	-0.0059	---	±2.5	Pass
			50 °C	12	0.0064	---	±2.5	Pass
TM 2	M	100%	-30 °C	21	0.0112	---	±2.5	Pass
			-20 °C	-13	-0.0069	---	±2.5	Pass
			-10 °C	11	0.0059	---	±2.5	Pass
			0 °C	-16	-0.0085	---	±2.5	Pass
			10 °C	21	0.0112	---	±2.5	Pass
			20 °C	15	0.0080	---	±2.5	Pass
			30 °C	-16	-0.0085	---	±2.5	Pass
			40 °C	17	0.0090	---	±2.5	Pass
			50 °C	-14	-0.0074	---	±2.5	Pass



Frequency Error vs. Voltage:

Test Mode	RF Ch.	Temp.	Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM 1	M	20 °C	85 %	15	0.0080	---	±2.5	Pass
			100 %	11	0.0059	---	±2.5	Pass
			115 %	-14	-0.0074	---	±2.5	Pass
TM 2	M	20 °C	85 %	-13	-0.0069	---	±2.5	Pass
			100 %	17	0.0090	---	±2.5	Pass
			115 %	9	0.0048	---	±2.5	Pass

-----The END-----