



FCC RF Test Report

**Product Name: HSDPA/HSUPA/UMTS/GSM/GPRS/EDGE Mobile Phone
with Bluetooth**

Model Number: U2900

**Report No: SYBH(Z-RF)007042012-2002
FCC ID: QISU2900**

Reliability Laboratory of Huawei Technologies Co., Ltd.

Huawei Base, Bantian, Longgang District, Shenzhen 518129, P.R. China

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Notice

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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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8. Normally, the test report is only responsible for the samples that have undergone the test.
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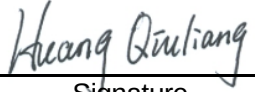


Applicant: Huawei Technologies Co., Ltd.
Address: Huawei Base, Bantian, Longgang District, Shenzhen
518129, P.R. China
Date of Receipt Test Item: Apr.14, 2012
Start Date of Test: Apr.15, 2012
End Date of Test: Apr.28, 2012

Test Result: Pass

Approved By Senior Engineer May.06, 2012 Dai Linjun 
Date Name Signature

Reviewed By May.06, 2012 Cousy Xu 
Date Name Signature

Operator May.06 2012 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

1.2 Test Location

Test Location 1: Reliability Laboratory of Huawei Technologies Co., Ltd.
Address: Huawei Base, Bantian, Longgang District, Shenzhen 518129, P.R.
China

1.3 Test Environment Condition

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

2 Test Summary

PCS Band			
Test Case	FCC Part No.	Requirements	Result
Transmitter Output Power	2.1046 & 24.232	Peak EIRP not exceed 2 W	Pass
Modulation Characteristics	2.1047	Digital modulation	Pass
Occupied Bandwidth	2.1049	(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

HSDPA/HSUPA/UMTS/GSM/GPRS/EDGE Mobile Phone with Bluetooth U2900 is subscriber equipment in the WCDMA/GSM system. The UMTS frequency band includes Band I and Band II and Band IV, but only Band II test data is included in this report. The GSM/GPRS/EDGE frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900, but only PCS1900 band test data is included in this report. The Mobile Phone implements such functions as RF signal receiving/transmitting, UMTS and GSM/GPRS/EDGE protocol processing, voice, MMS service, AGPS 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.

3.1.2 Board

Table 1 Board Information

HSDPA/HSUPA/UMTS/GSM/GPRS/EDGE Mobile Phone with Bluetooth		
U2900		
Hardware Version	Software Version	Description
Ver.B	HUAWEI U2900V100R001CCUB110	Main board of Mobile Phone

3.1.3 Sub-Assembly

AC/DCAdapter Model	HS-050040U6
Manufacturer	Huawei Technologies Co., Ltd.
Input Voltage	~100-240V 50/60Hz 0.2 A
Output Voltage	 5.0V 400 mA
Rated Power	2W
Serial Number	BYBB2161342, HKABC1778071

3.1.4 Battery Technical Data

Battery Model:	HB5A2
Manufacturer	Huawei Technologies Co., Ltd.
Rated capacity:	1000 mAh
Nominal Voltage:	 3.7 V
Charging Voltage:	 4.2 V
Serial Number	GAGBC28Z752D7486, BAAB927XC1702524

3.2 Test Description

3.2.1 Supported Frequency Range

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

3.2.2 Transmitter / Receiver Characteristics

Characteristics	Description
System Type	GSM UMTS
TX Output Power (per Antenna Port)	GSM system: 33dBm UMTS system: 24dBm
Channel Spacing(s) / Bandwidth(s)	GSM system: 200 kHz UMTS system: 5 MHz
Designation of Emissions	GSM system: 246KGXW (GMSK modulation), 249KG7W (8PSK modulation)) UMTS system: 4M17F9W

3.2.3 Antenna Gain

Antenna Gain(dBi):	2
Antenna Gain(dBd):	-0.15

3.2.4 Power Supply

	Description
Power Supply Type	Directly Connected to DC /AC Power Supply
Input to Adapter (DC power)	DC Voltage Nominal: $\equiv$ +3.7V DC Voltage Range: $\equiv$ +3.5 V to +4.2V

4 General Test Conditions / Configurations

4.1 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
TM3/TM4/TM5	TX	Channel 9262	Channel9400	Channel9538
		1852.4MHz	1880.0MHz	1907.6MHz
	RX	Channel 9662	Channel 9800	Channel 9938
		1932.4 MHz	1960.0 MHz	1987.6 MHz

4.2 Test Modes

Test Mode	Test Modes Description
TM1	GSM/GPRS, GMSK modulation
TM2	EDGE, 8PSK modulation
TM3	WCDMA QPSK modulation
TM4	HSDPA QPSK modulation
TM5	HSUPA QPSK modulation

4.3 Test Environments

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Temperature	TN	Ambient
Voltage	VL	3.5V
	VN	3.7V
	VH	4.2V

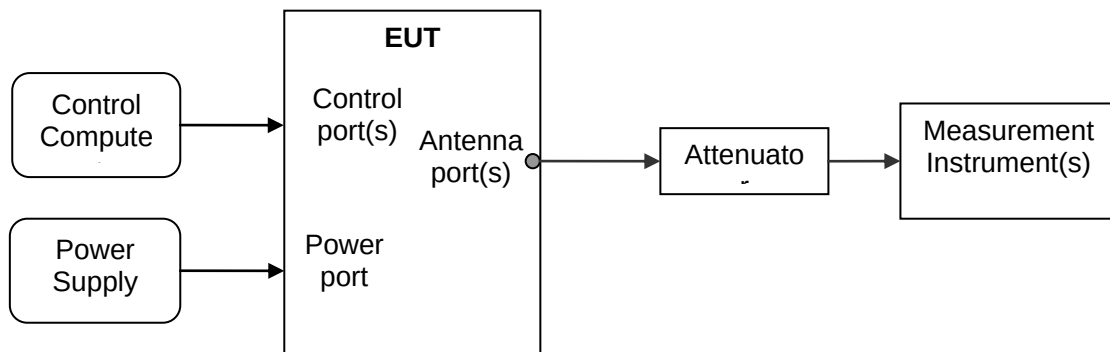
NOTE: VL= lower extreme test voltages
VN= nominal voltage
VH= upper extreme test voltage
TN= nominal temperature

4.4 Test Setups

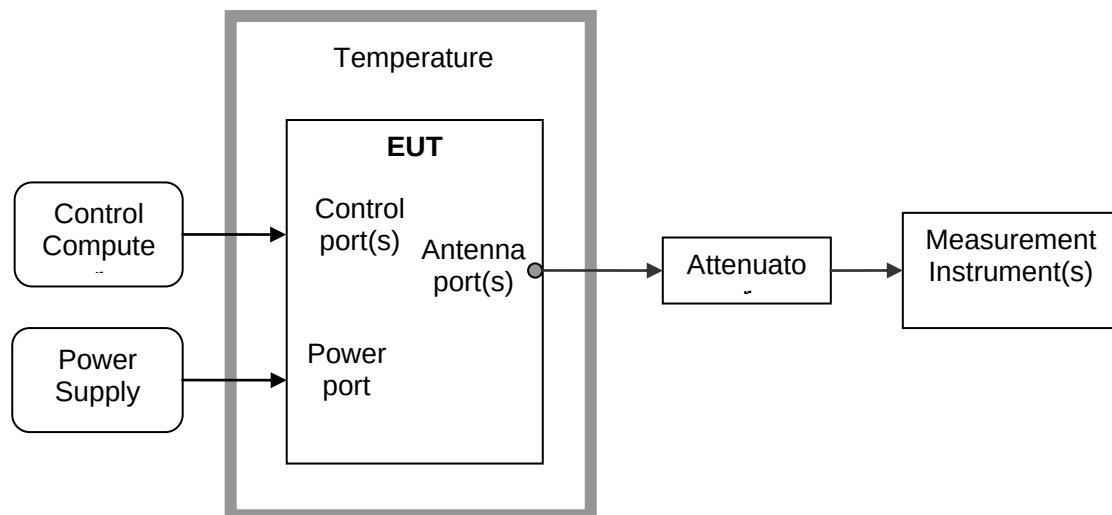
4.4.1 General Test Setup Configurations

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.

4.4.2 Test Setup 1



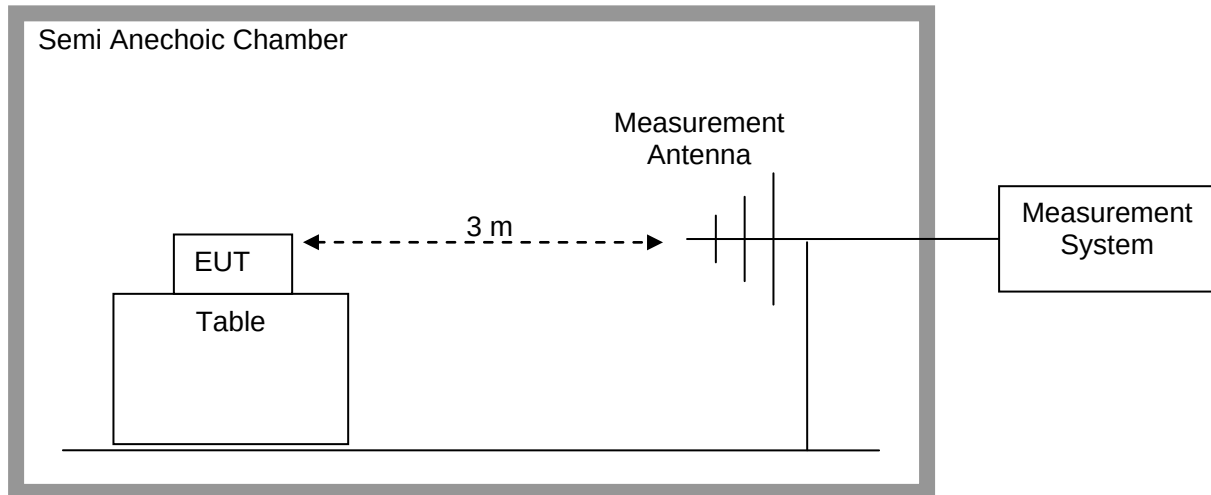
4.4.3 Test Setup 2



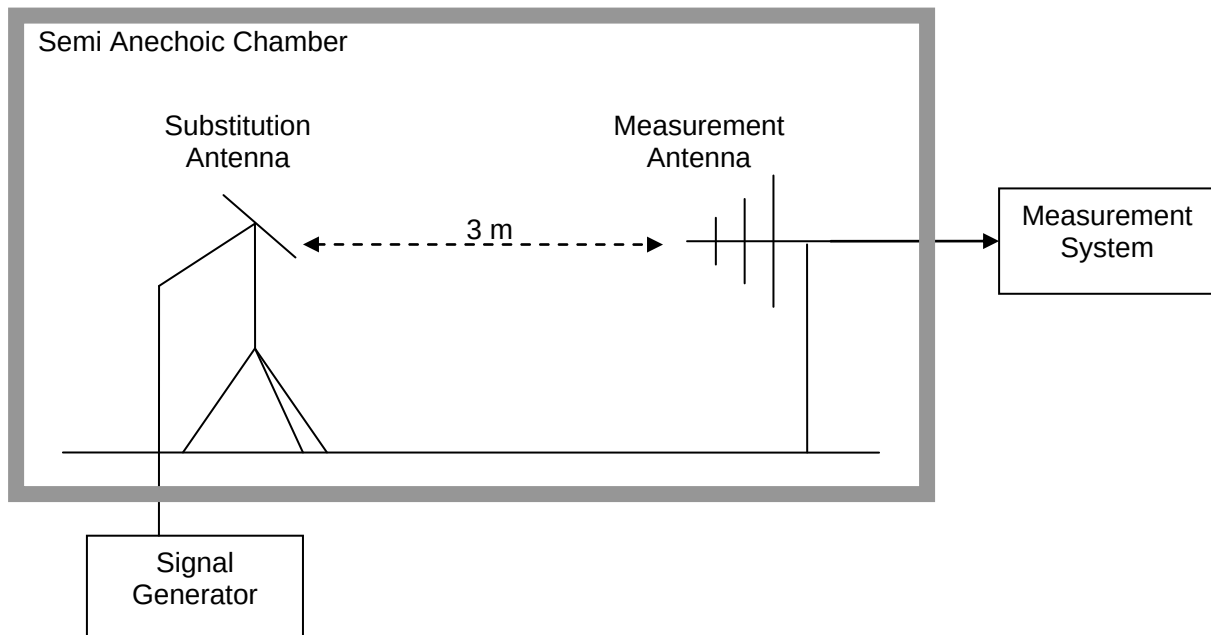
4.4.4 Test Setup 3

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



4.5 Test Conditions

Test Case	Test Conditions	
Transmitter Output Power	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1/ Setup 3
	Detector	RMS
	RF Channels (TX)	B, M, T
	Test Mode	TM1/TM2/TM3/TM4/TM5
Modulation Characteristics	Test Configuration	Ambient Temperature & Rated Voltage
	Test Setup	Test Setup 1
	RF Channels (TX)	M
	Test Mode	TM1/TM2/TM3
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/TM3
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/TM3
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/TM3
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/TM3/TM4/TM5
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/TM3

5 Main Test Instruments

Table 2 Main Test Equipments

Equipment Description	Manufacturer	Model	Serial Number	Calibrated until
Power supply	KEITHLEY	2303	1288003	Sep.27,2012
Universal Radio Communication Tester	R&S	CMU200	117341	Jan.12.2013
Universal Radio Communication Tester	Agilent	E5515C	MY50260239	Aug.31,2012
Spectrum Analyzer	Agilent	E4440A	MY48250119	Jul.17,2012
Signal Analyzer	R&S	FSQ31	200021	Sep.27,2012
Temperature Chamber	WEISS	WKL64	24600294	Feb.13,2013
Signal generator	Agilent	E8257D	MY49281095	Jul.9.2012
Test receiver	R&S	ESU26	100150	May.29.2012
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, 2012
Horn Antenna	R & S	HF906	100684	Jul.01, 2012
Broadband Antenna	Schwarzbeck	VULB 9163	9163-357	May.15, 2012
Broadband Antenna	Schwarzbeck	VULB 9163	9163-356	May.15, 2012

6 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 Radiated Spurious Emissions	Appendix H

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

7 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

Table 1 Measurement Results

		RF Output Power (Conducted)					
TEST CONDITIONS		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		29.26	33	29.41	33	29.39	33
TM2		24.71	33	24.94	33	24.93	33
TEST CONDITIONS		Channel9262(B)		Channel9400(M)		Channel9538(T)	
		1852.4MHz		1880.0MHz		1907.6MHz	
		dBm		dBm		dBm	
T_{nom} / V_{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM3		22.46	33	22.66	33	22.22	33
TM4	Case1	22.51	33	22.58	33	22.16	33
	Case2	22.45	33	22.5	33	22.05	33
	Case3	21.35	33	21.51	33	21.1	33
	Case4	21.34	33	21.49	33	21.07	33
TM5	Case1	21.87	33	22.34	33	21.33	33
	Case2	20.4	33	20.39	33	19.88	33
	Case3	20.59	33	20.68	33	20.24	33
	Case4	20.59	33	21.11	33	20.39	33
	Case5	21.69	33	22.22	33	21.21	33



Effective Isotropic Radiated Power of Transmitter (EIRP)

Table 2 Substitution Results

Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution on Antenna Type	SGP [dBm]	Substitution Gain [dBi]	Cable Loss [dB]	Substitution Level (EIRP) [dBm]	FCC limit [dBm]	Result
TM1	1850.2	31.26	Horn Ant.	27.99	4.5	1	31.49	33	Pass
TM1	1880.0	31.41	Horn Ant.	28.05	4.5	1	31.55	33	Pass
TM1	1909.8	31.39	Horn Ant.	27.62	4.8	1	31.42	33	Pass
TM2	1850.2	26.71	Horn Ant.	23.25	4.5	1	26.75	33	Pass
TM2	1880.0	26.94	Horn Ant.	23.53	4.5	1	27.03	33	Pass
TM2	1909.8	26.93	Horn Ant.	23.2	4.8	1	27.00	33	Pass
TM3	1852.4	24.46	Horn Ant.	21.09	4.5	1	24.59	33	Pass
TM3	1880.0	24.66	Horn Ant.	21.18	4.5	1	24.68	33	Pass
TM3	1907.6	24.22	Horn Ant.	20.66	4.8	1	24.46	33	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-----
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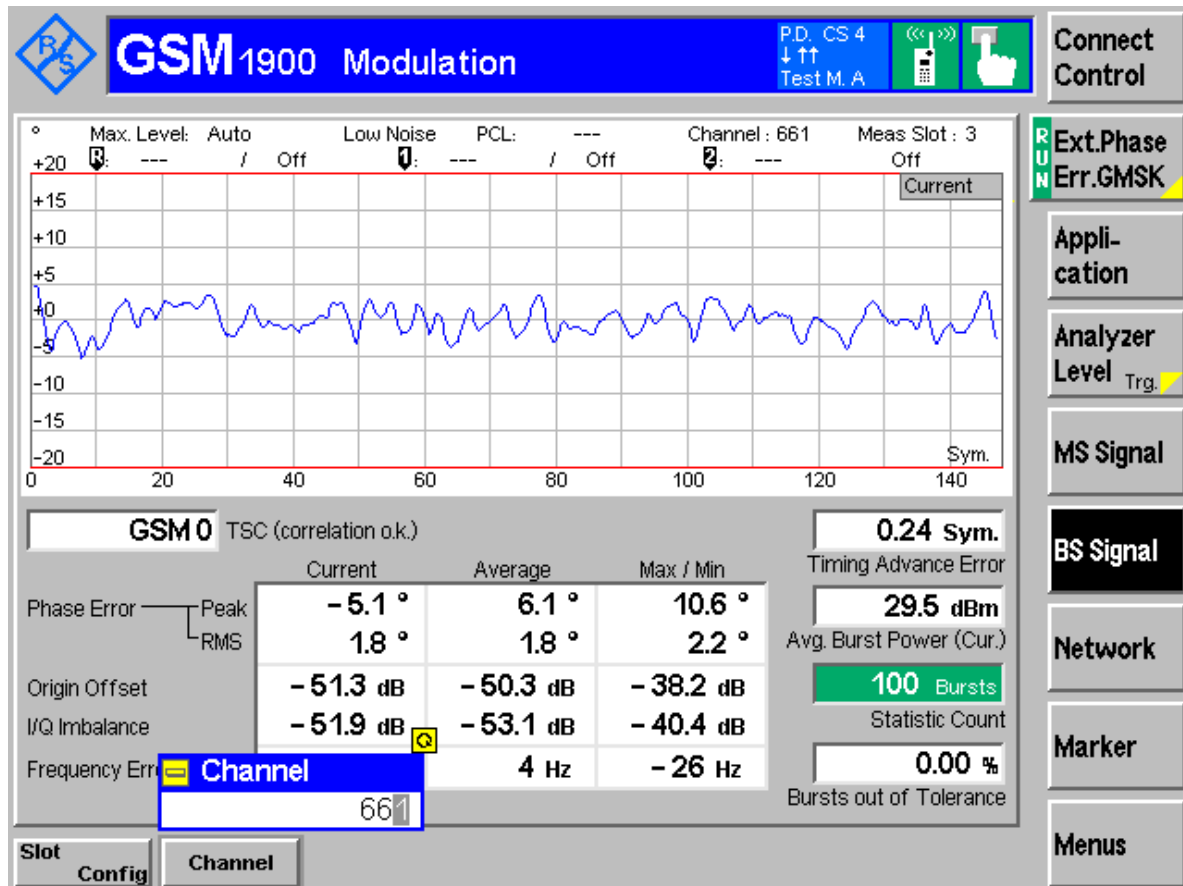
Appendix B

Modulation Characteristics

According to FCC Part 2.1047 & Part24 Subpart E

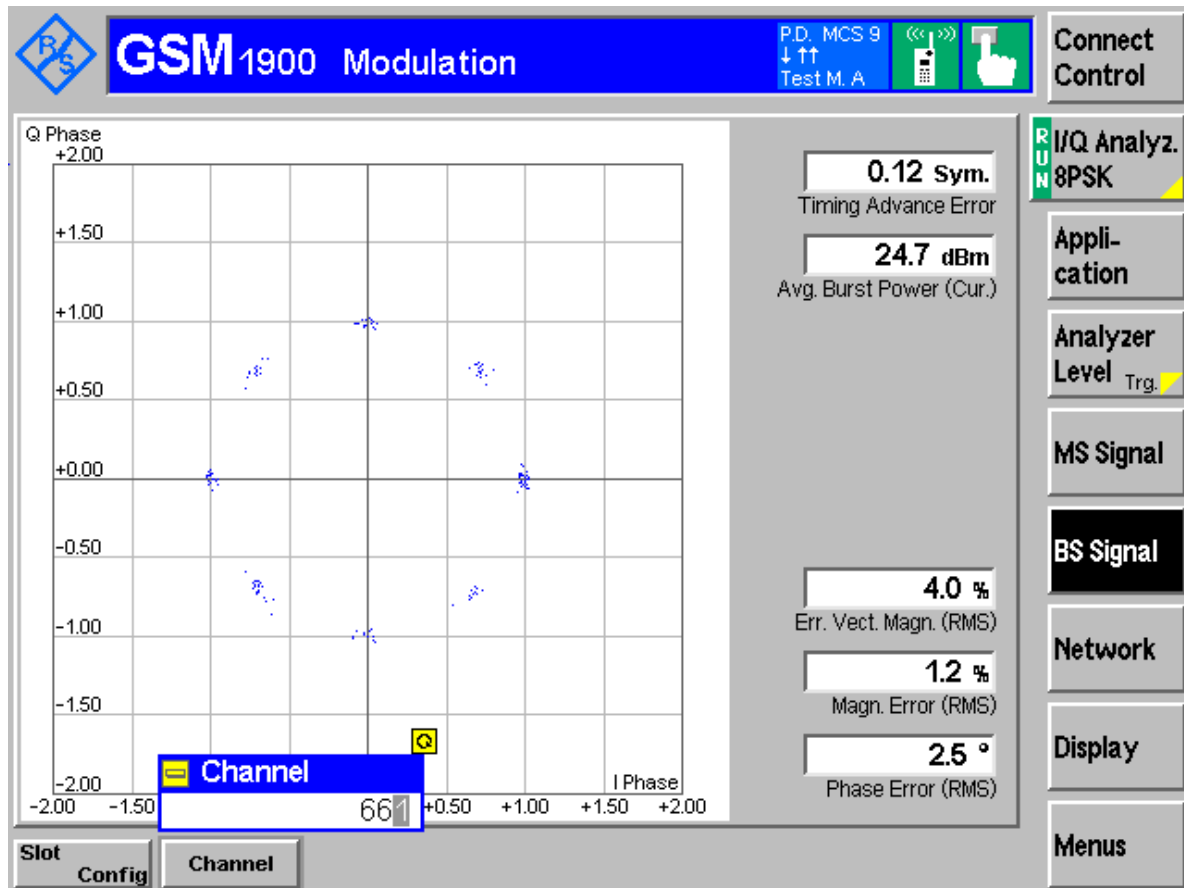


TM1:GPRS/GSM Channel 661



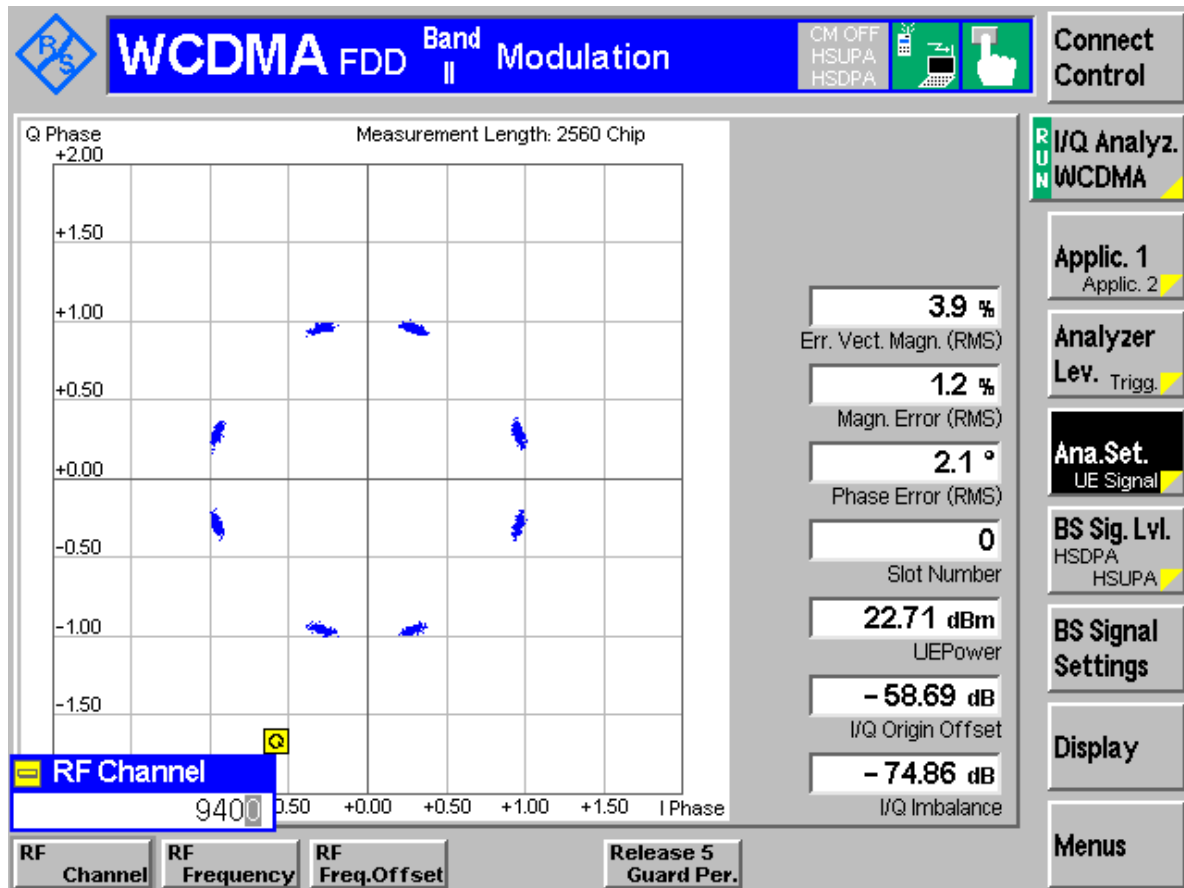


TM2:EDGE Channel 661





TM3: WCDMA Channel 9400



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Appendix C

Occupied Bandwidth

According to FCC Part 2.1049 & Part24 Subpart E



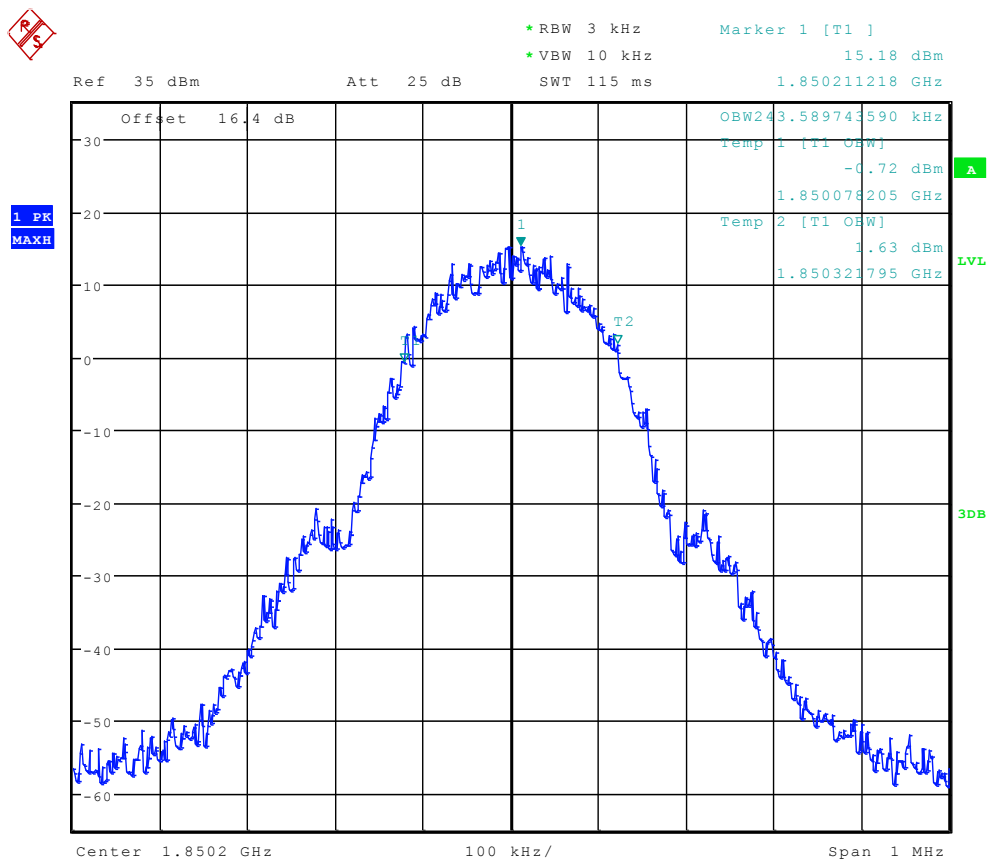
Result Table

Table 1 Measurement Results

Test Mode	RF Channel	Occupied Bandwidth [kHz]	Verdict
TM1	512	243.59	Pass
	661	243.59	Pass
	810	245.20	Pass
TM2	512	243.59	Pass
	661	245.20	Pass
	810	248.40	Pass
Test Mode	RF Channel	Occupied Bandwidth [MHz]	Verdict
TM3	9262	4.16	Pass
	9400	4.16	Pass
	9538	4.17	Pass



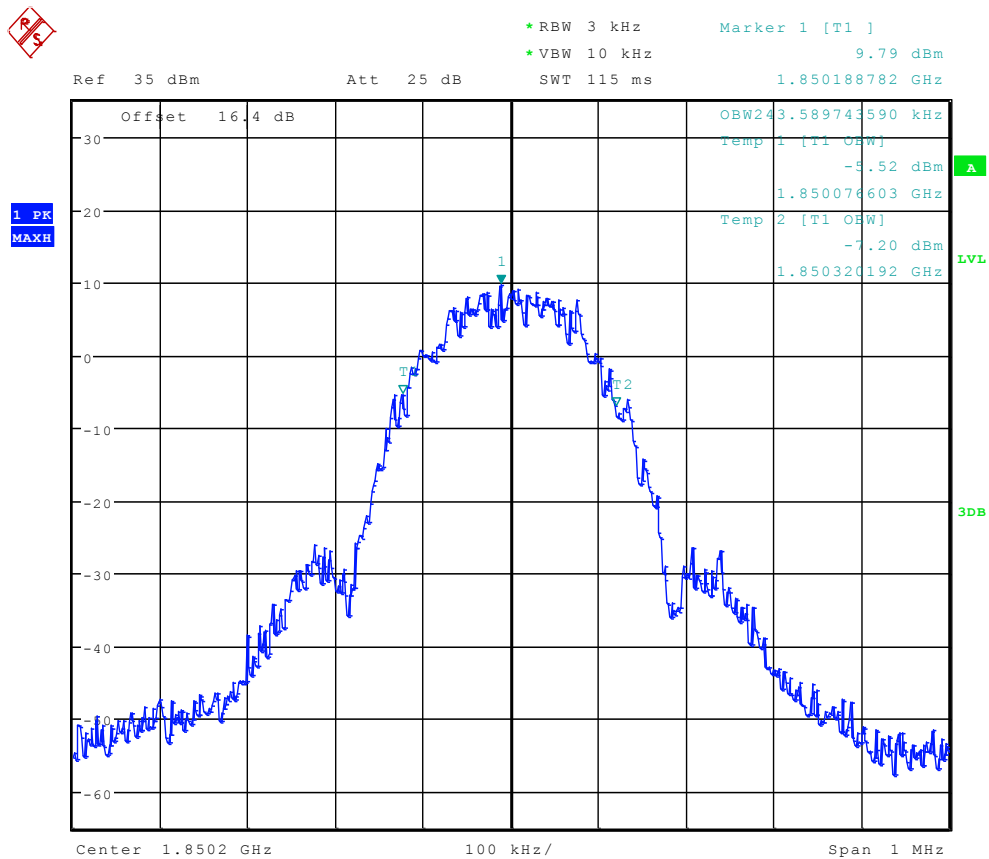
TM1:GPRS/GSM Channel 512



Date: 12.APR.2012 00:51:07



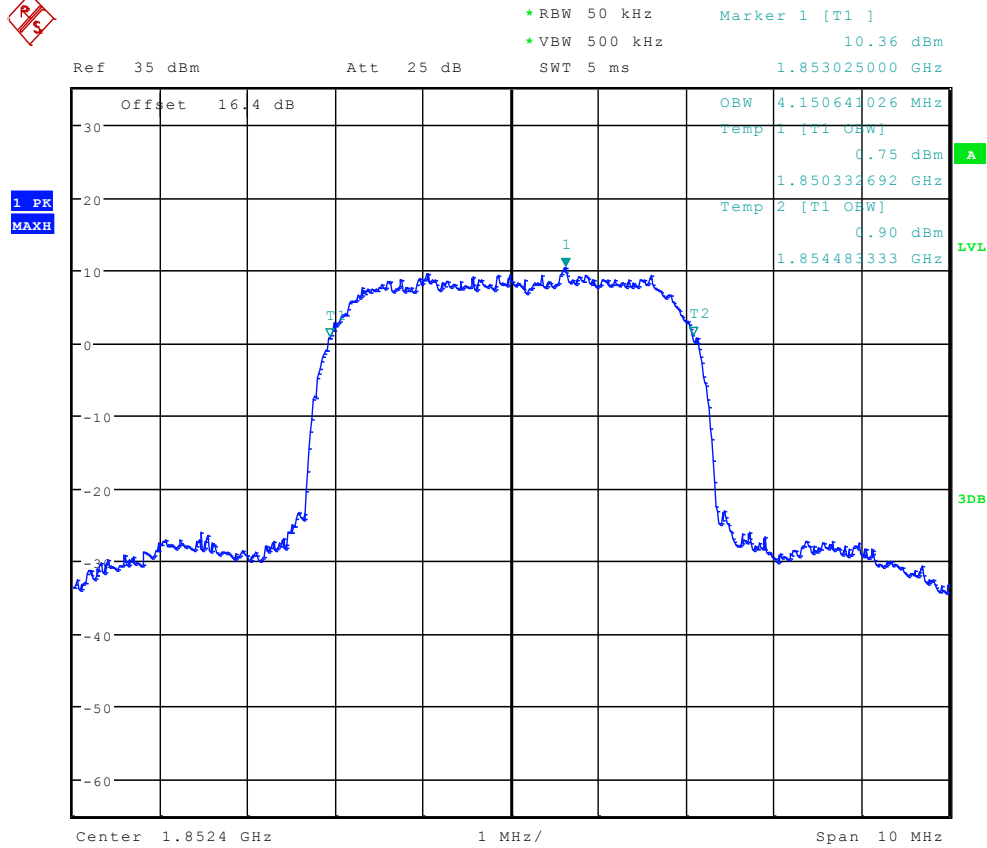
TM2:EDGE Channel 512



Date: 12.APR.2012 00:58:31



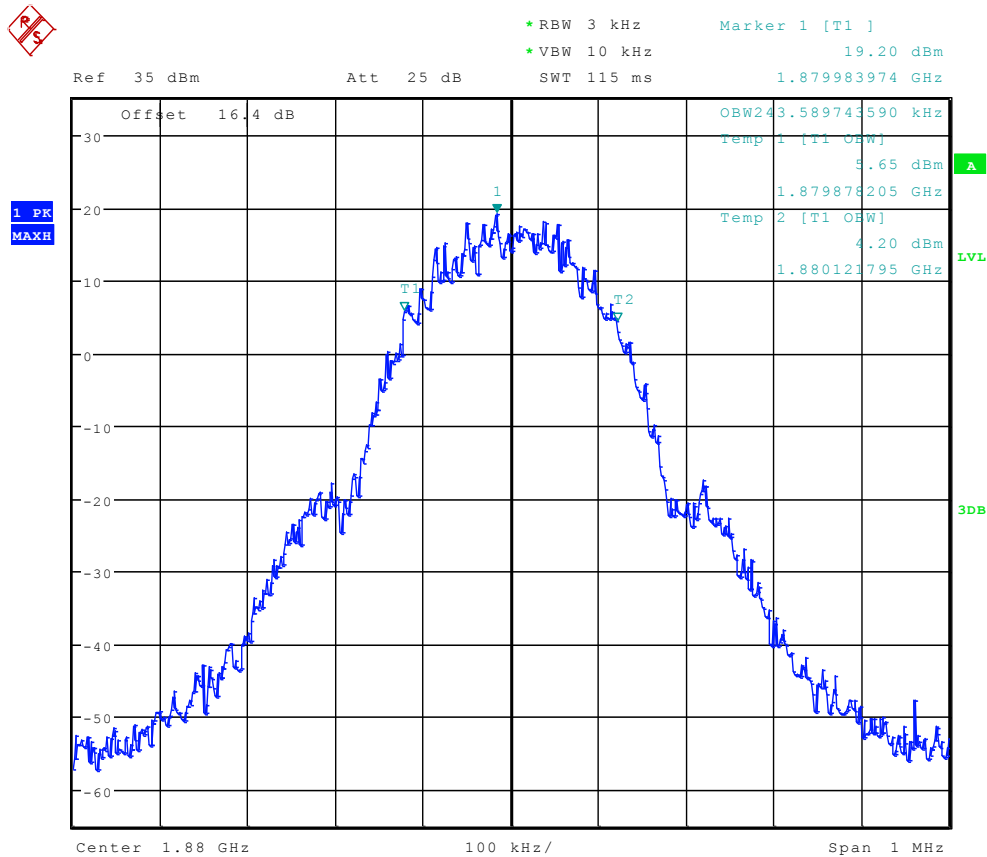
TM3: WCDMA Channel 9262



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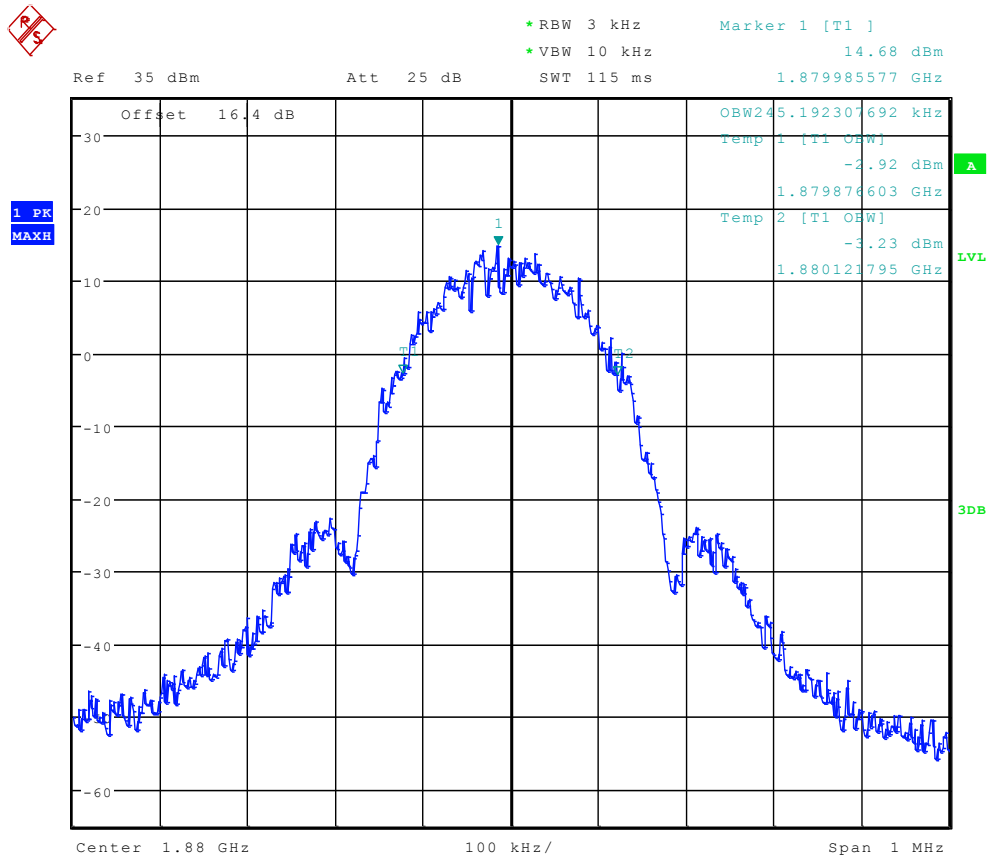
TM1:GPRS/GSM Channel 661



Date: 12.APR.2012 00:51:21



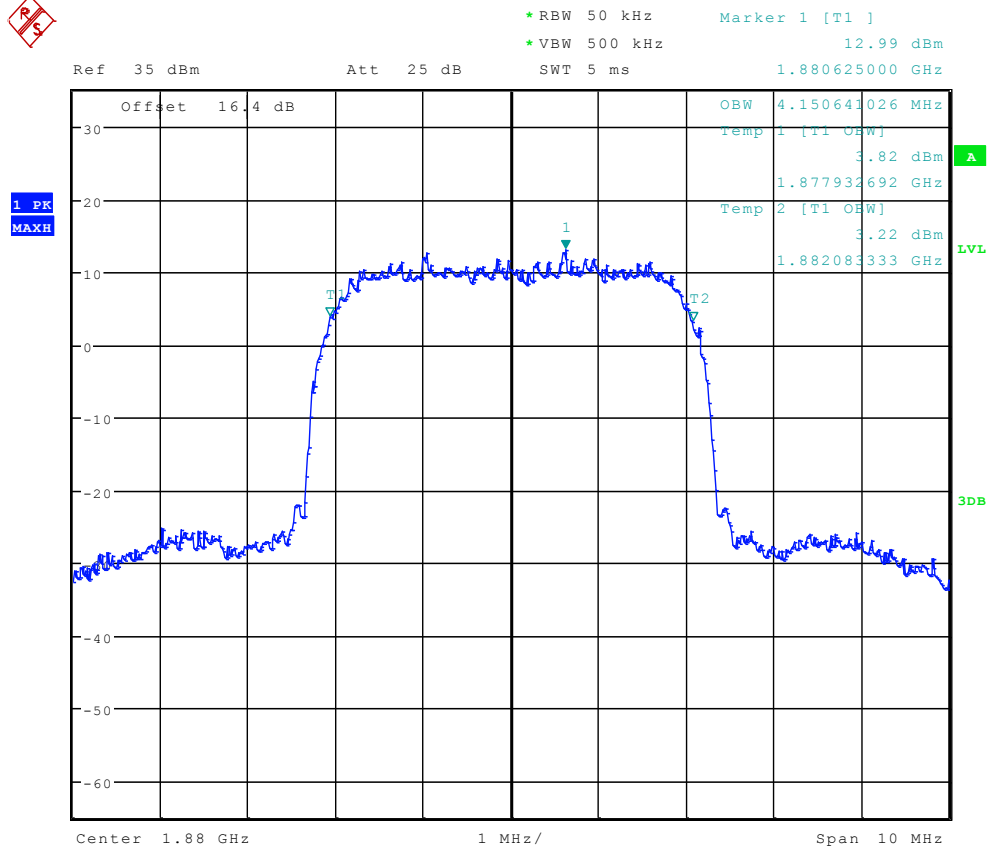
TM2:EDGE Channel 661



Date: 12.APR.2012 00:58:44



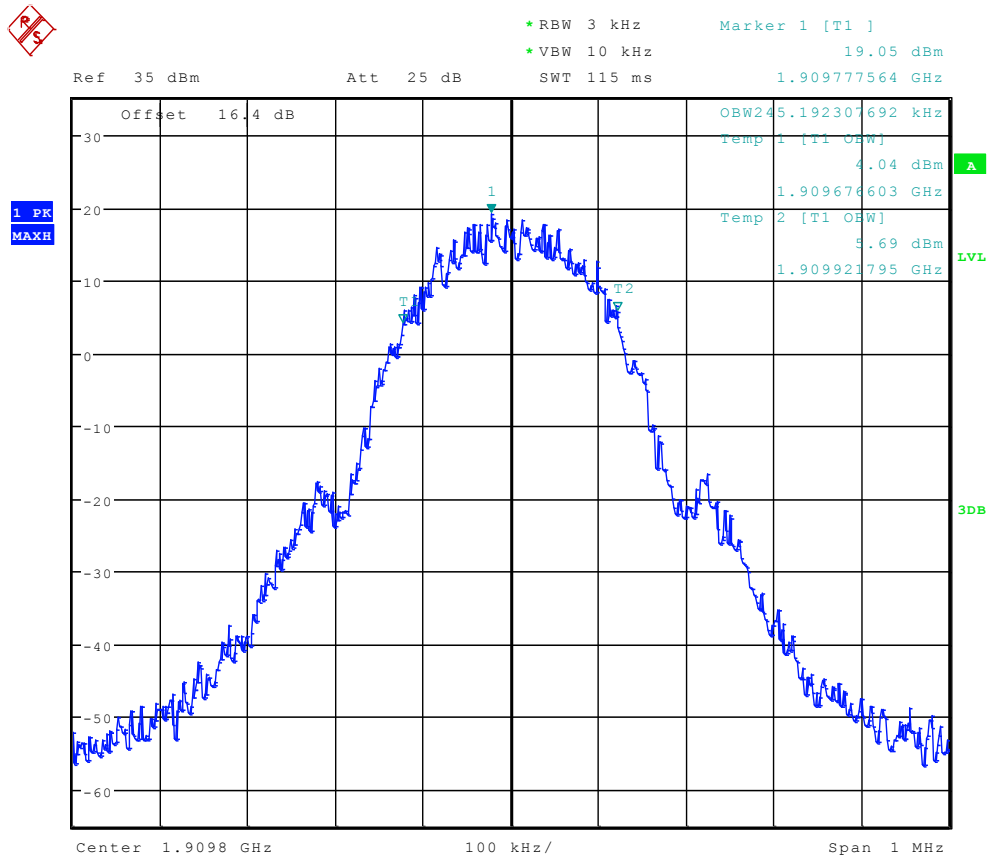
TM3: WCDMA Channel 9400



Date: 12.APR.2012 01:03:10



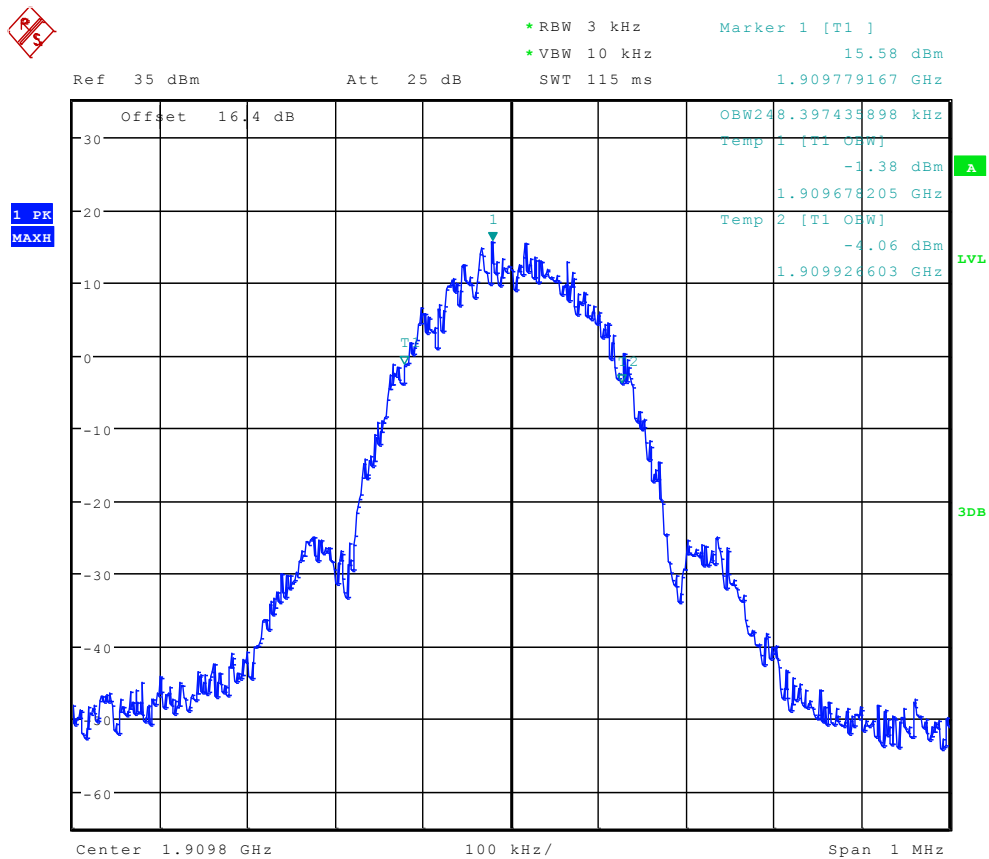
TM1:GPRS/GSM Channel 810



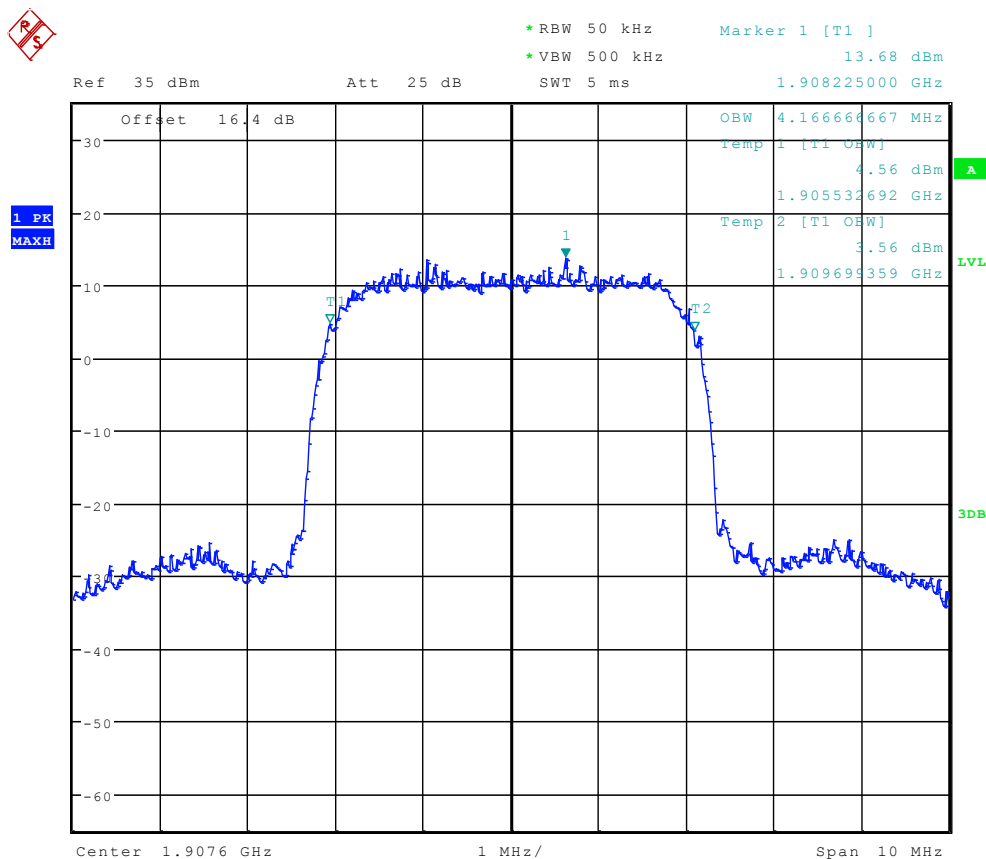
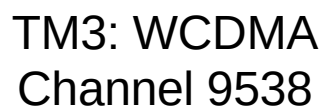
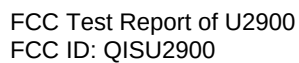
Date: 12.APR.2012 00:51:34



TM2:EDGE Channel 810



Date: 12.APR.2012 00:58:58



Date: 12.APR.2012 01:03:23

-The END-



Appendix D

Band Edges Compliance

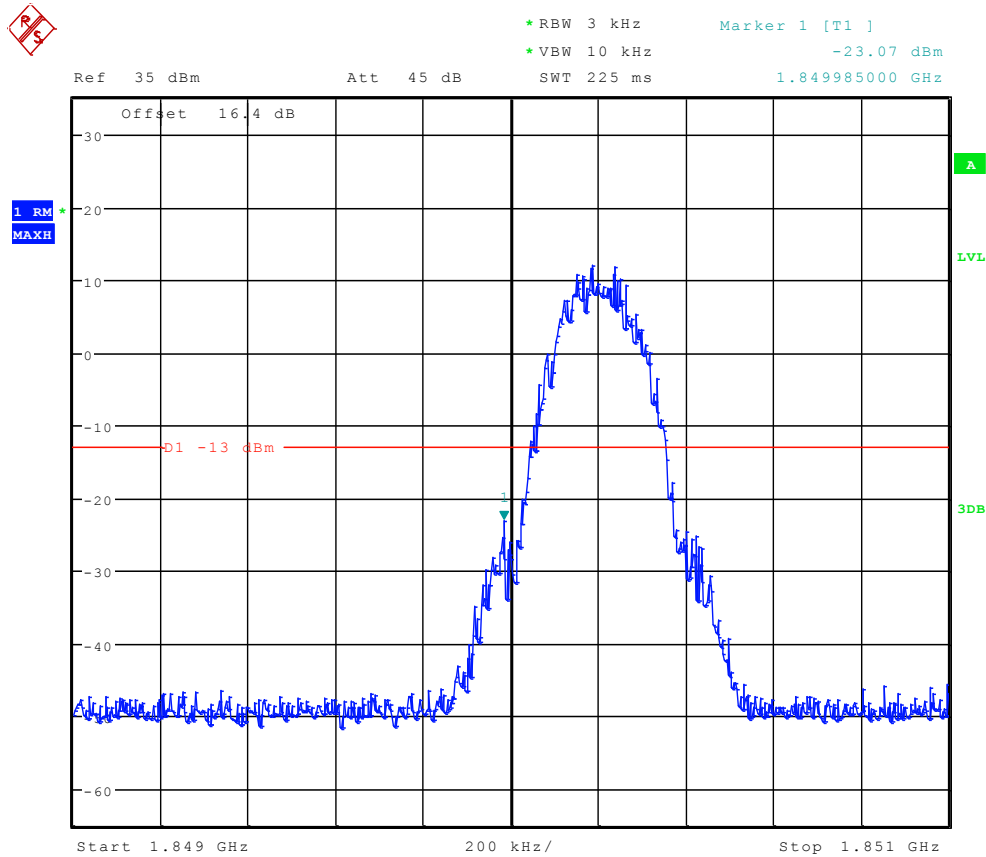
According to FCC Part 2.1051 & Part24 Subpart E



TM1:GPRS/GSM

Left Edge

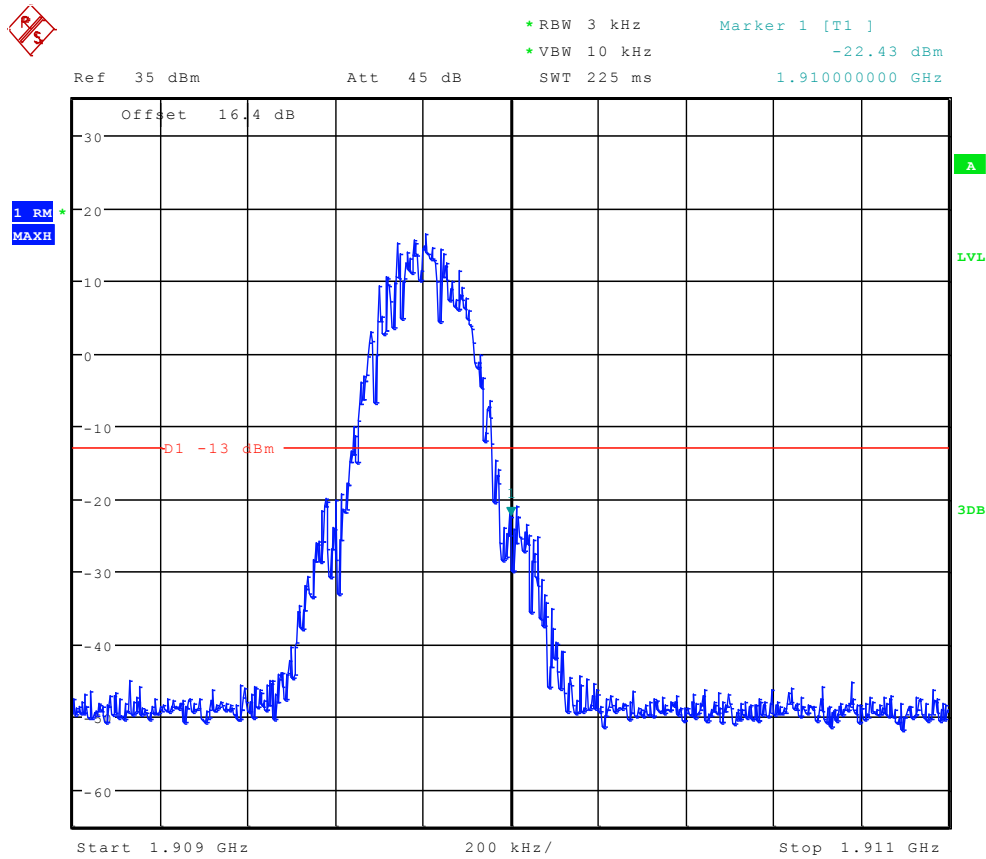
Channel 512



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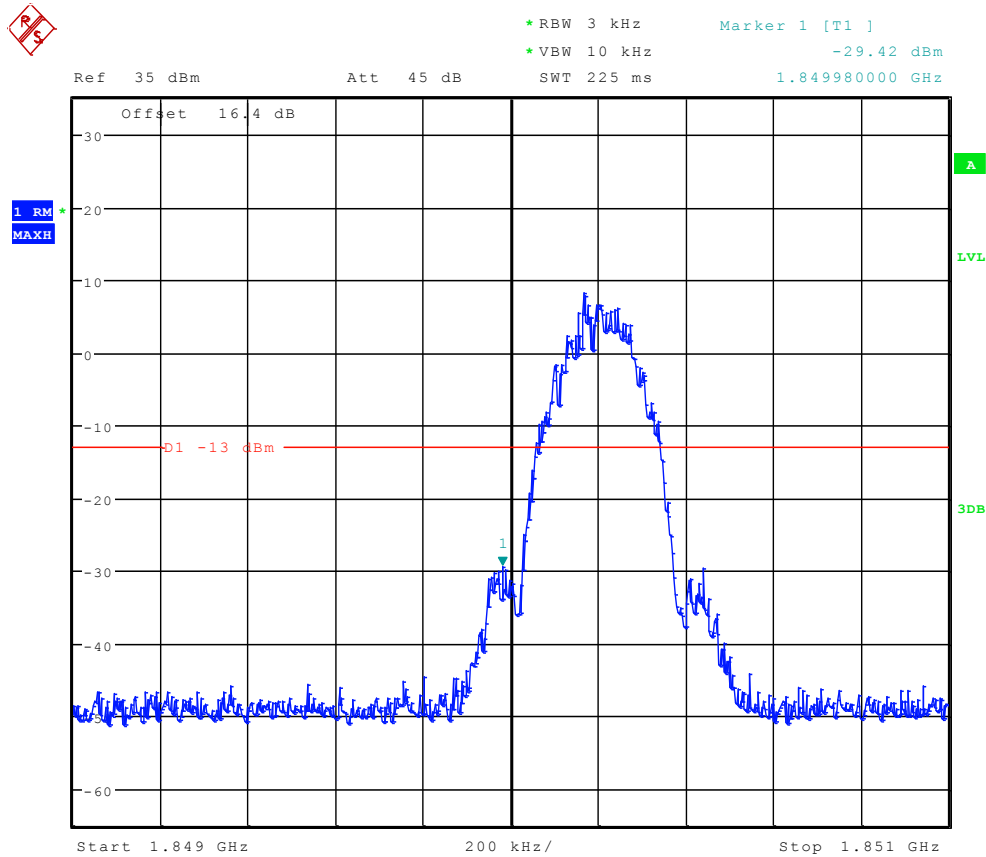
Right Edge Channel 810



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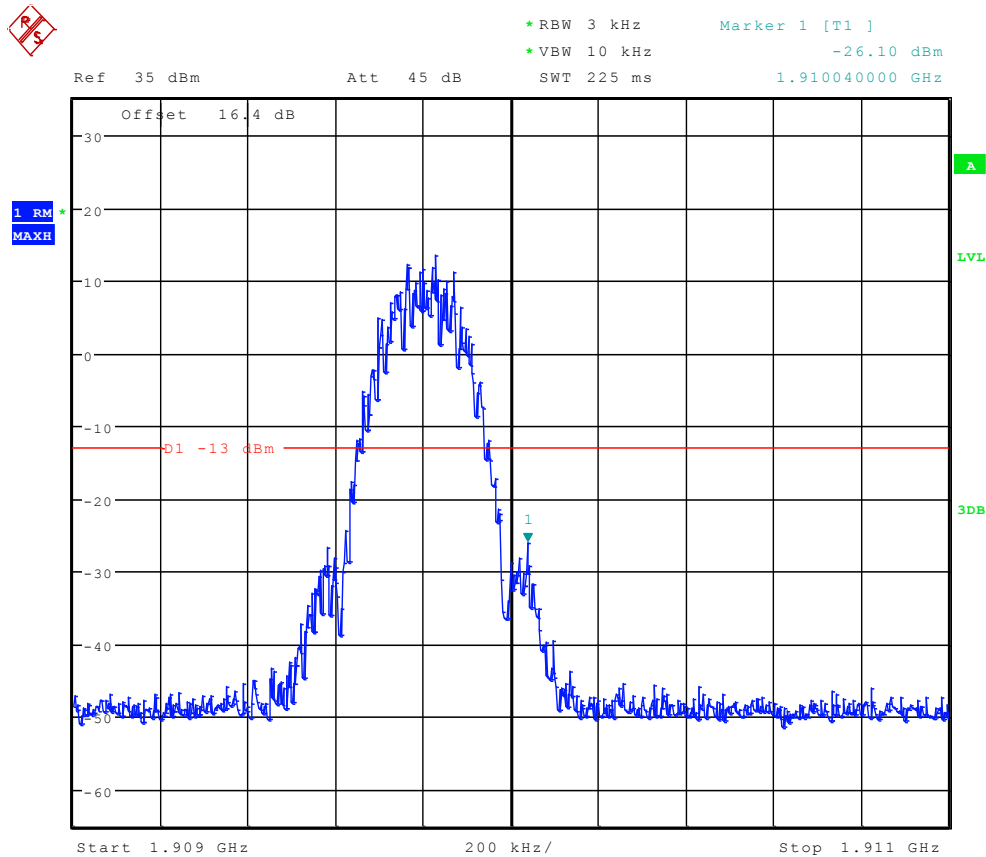
TM2:EDGE Left Edge Channel 512



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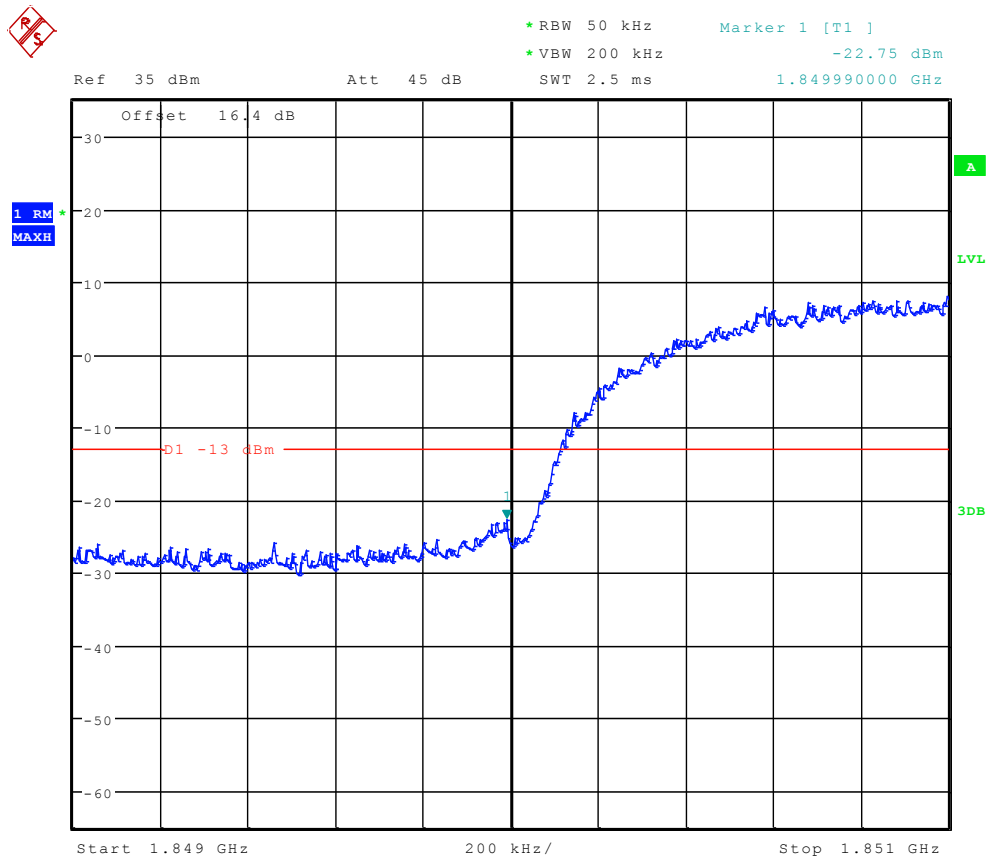
Right Edge Channel 810



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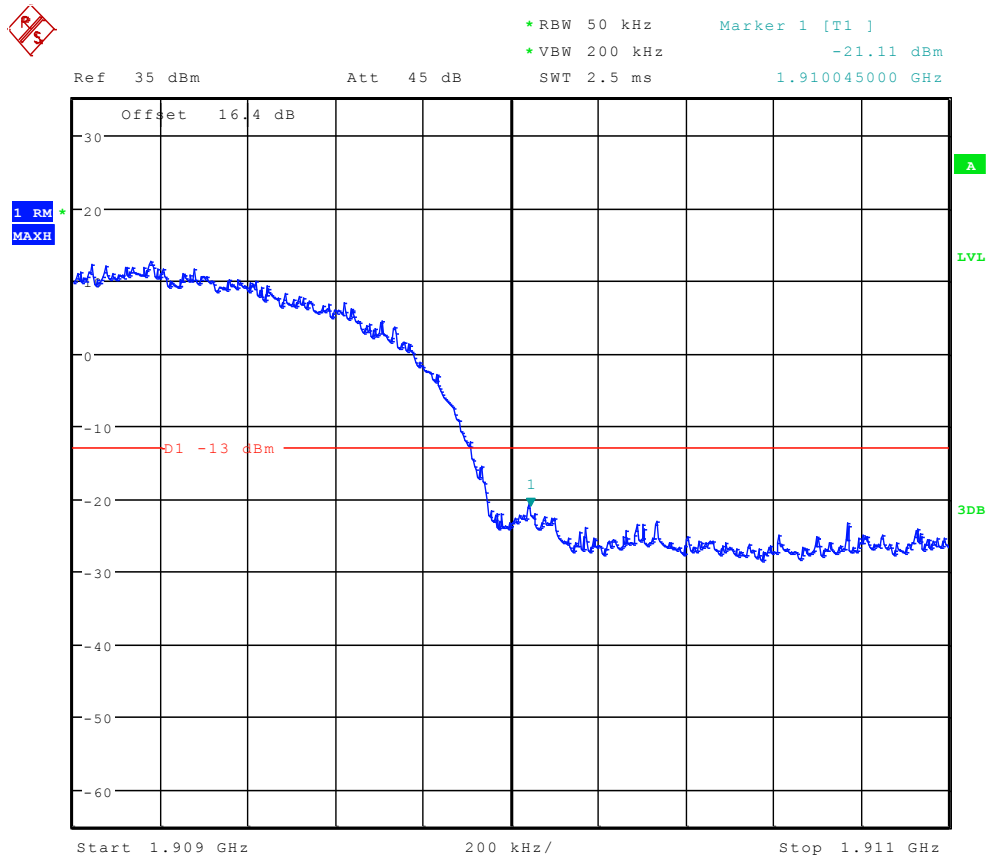
TM3: WCDMA Left Edge Channel 9262



Date: 12.APR.2012 01:03:38



Right Edge Channel 9538



Date: 12.APR.2012 01:03:51

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

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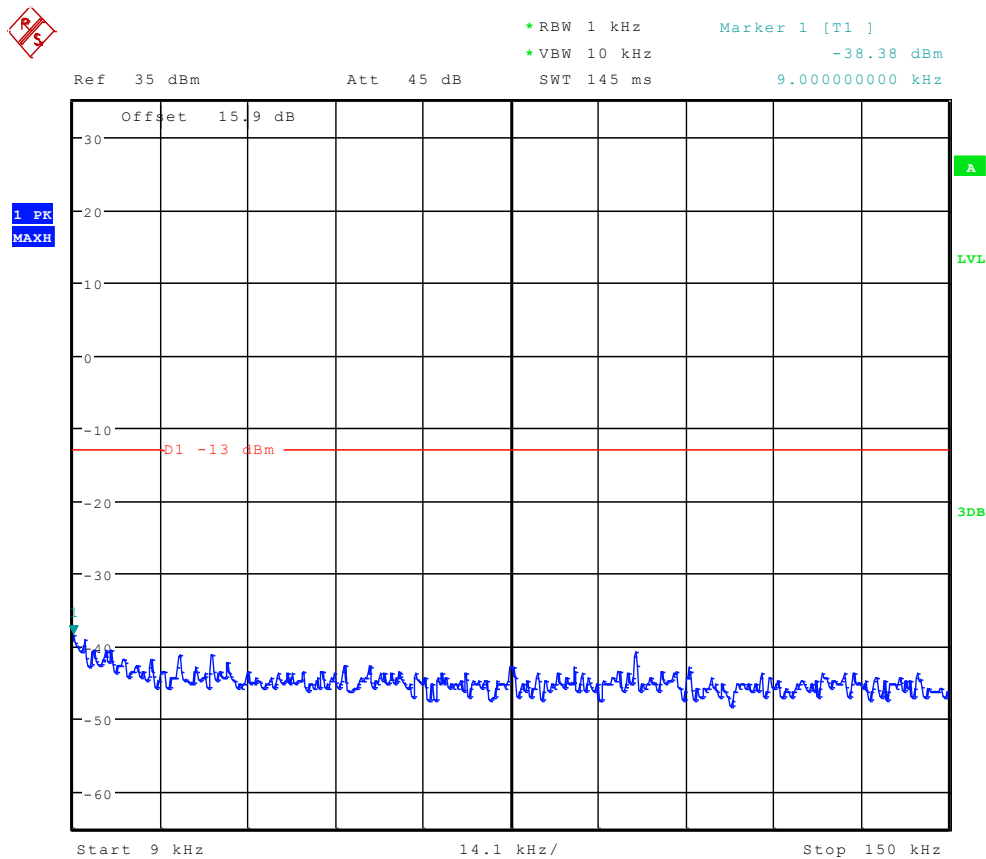
Appendix E

Spurious Emission at Antenna Terminal

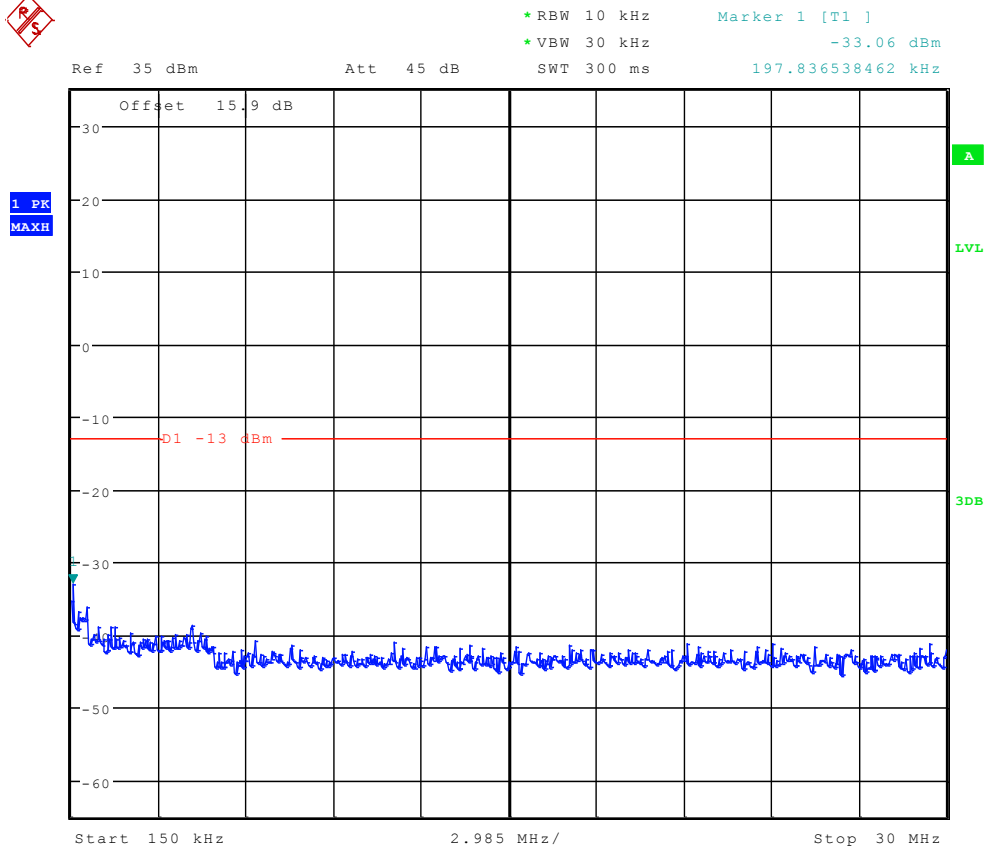
According to FCC Part 2.1051 & Part24 Subpart E



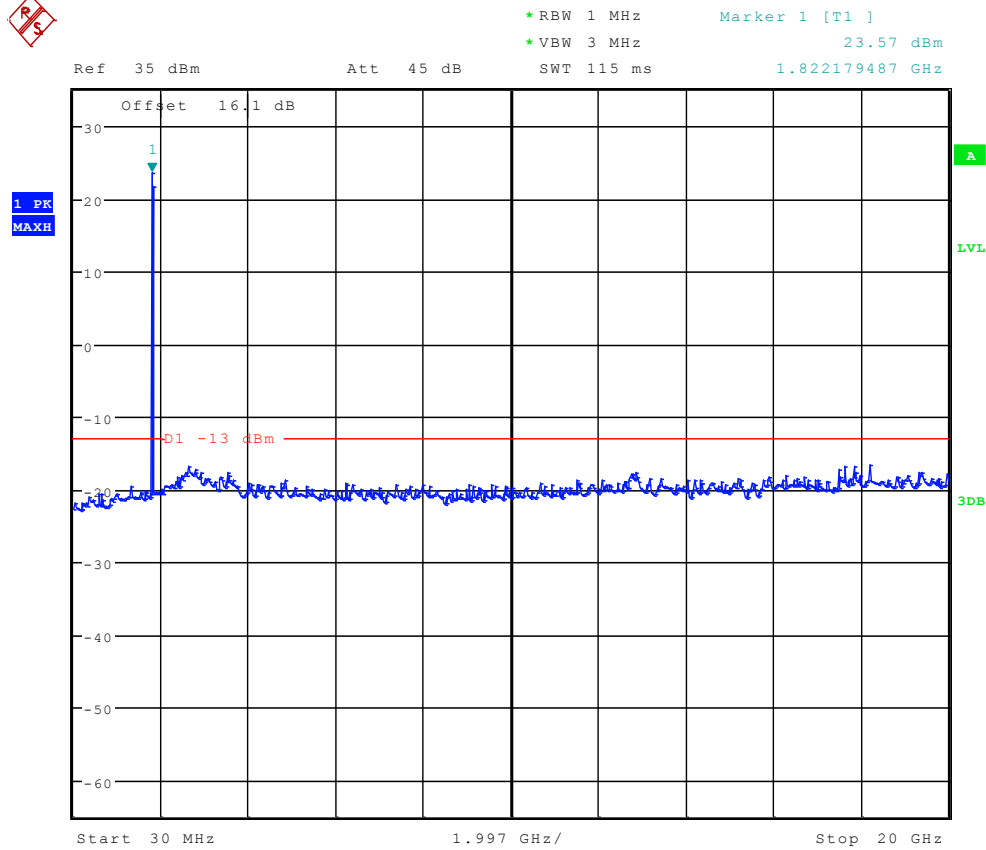
TM1:GPRS/GSM Channel 512



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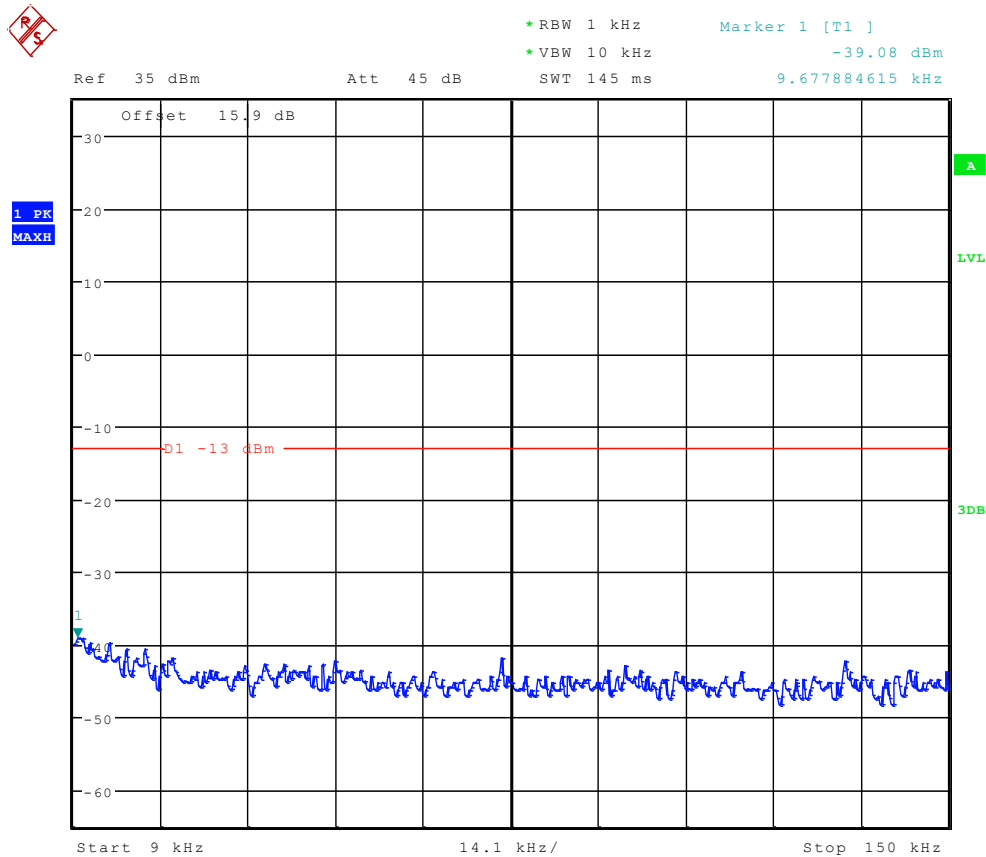
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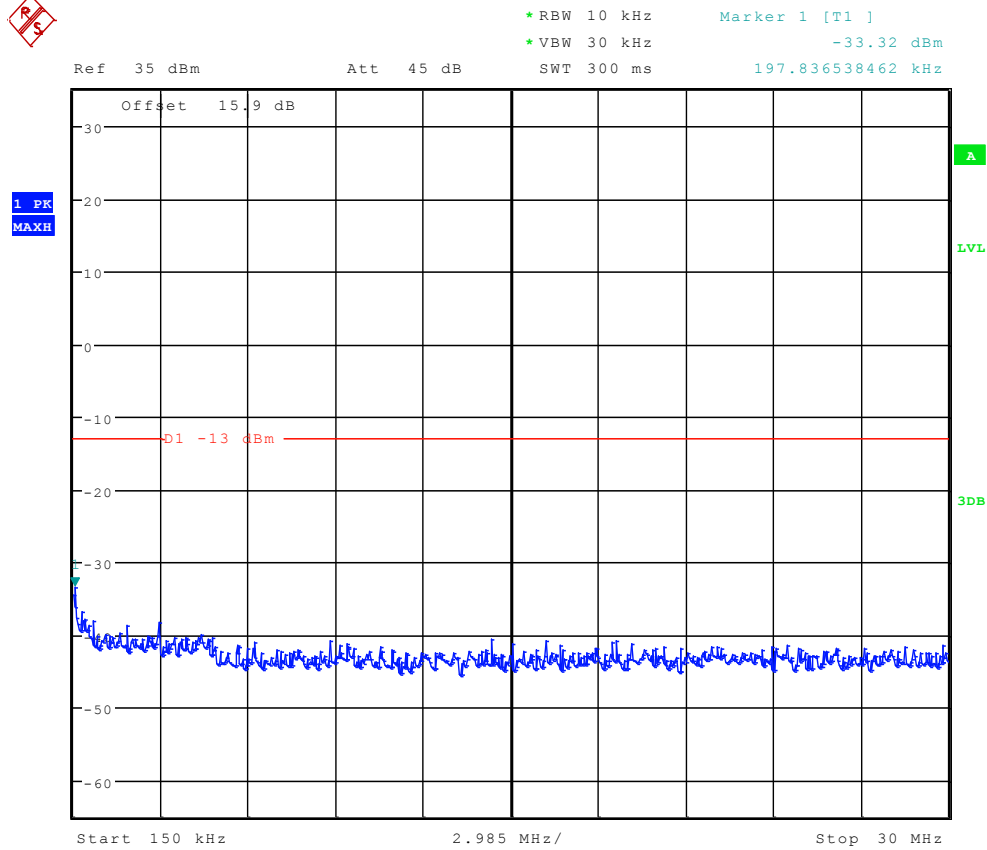
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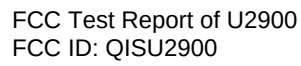
Channel 661



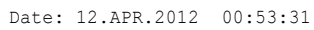
Date: 12.APR.2012 00:52:04



Date: 12.APR.2012 00:52:47

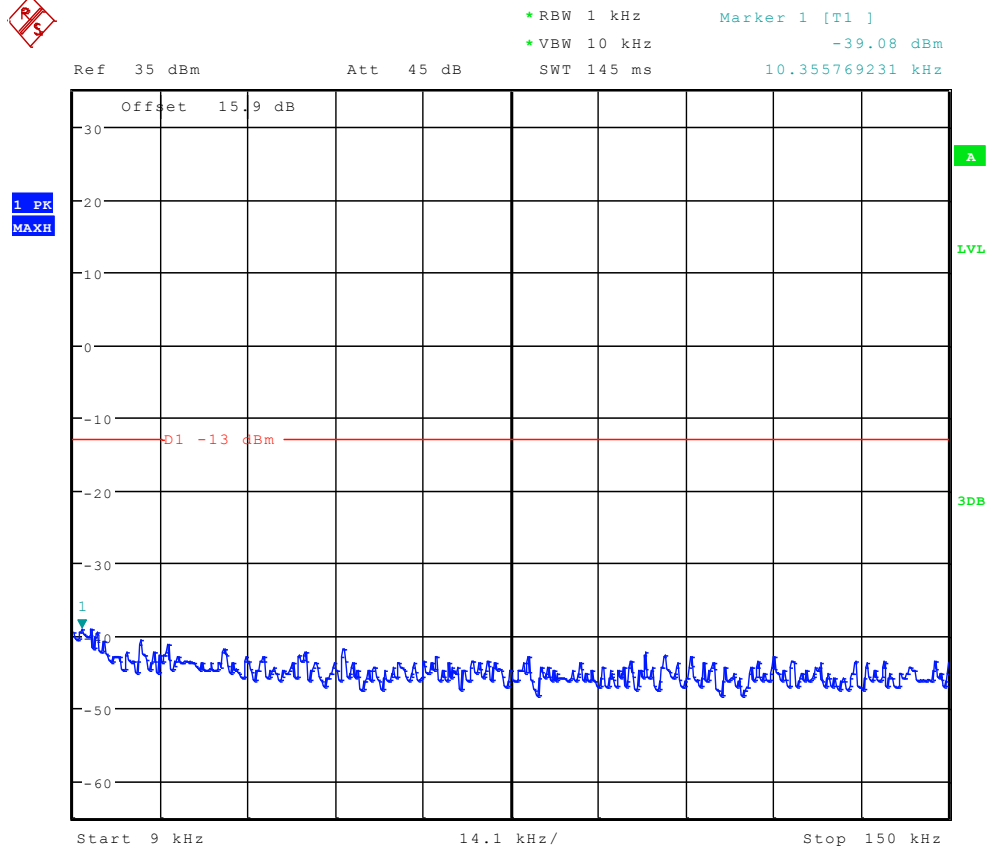


Ref	35 dBm	Att	45 dB	SWT	115 ms	1.854182692 GHz
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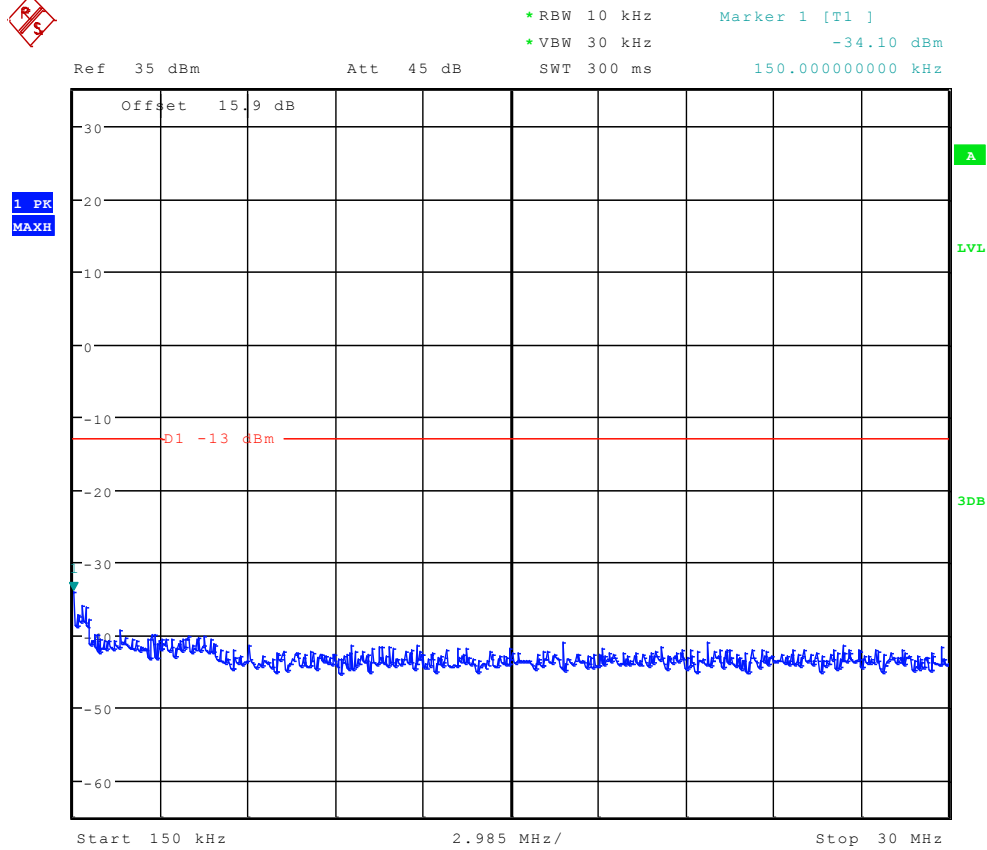




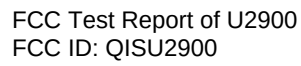
Channel 810



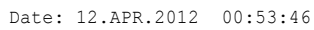
Date: 12.APR.2012 00:52:18



Date: 12.APR.2012 00:53:02

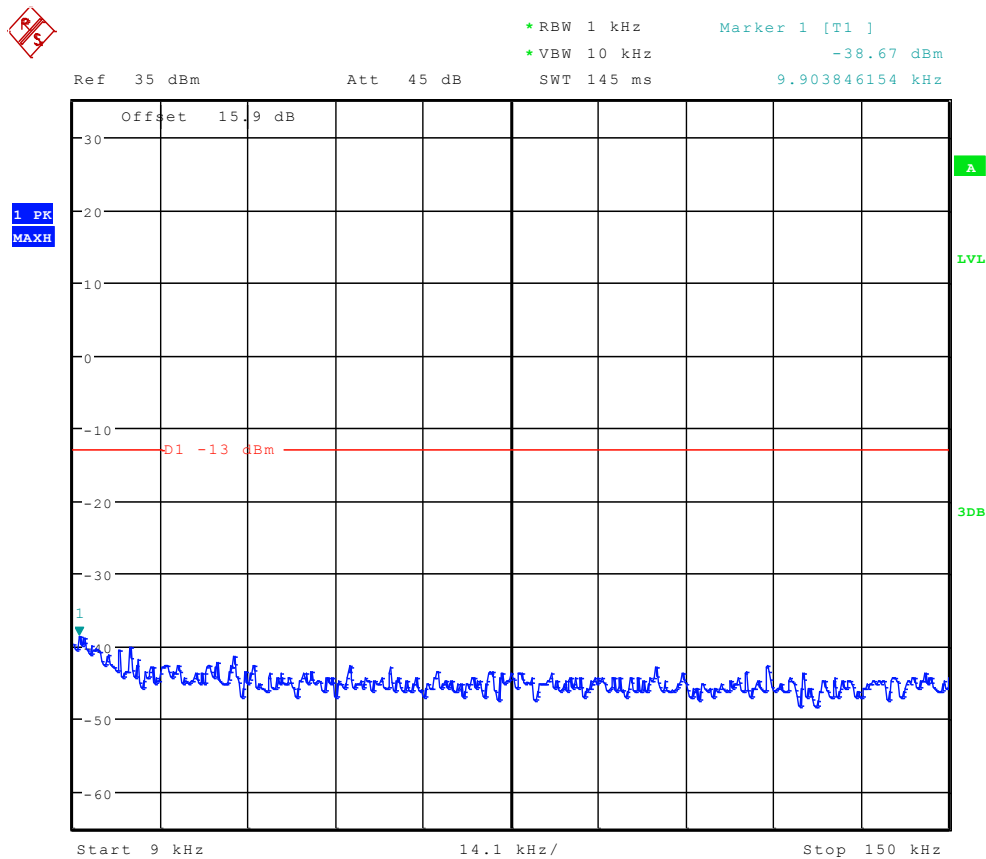


Ref	35 dBm	Att	45 dB	SWT	115 ms	1.886185897 GHz
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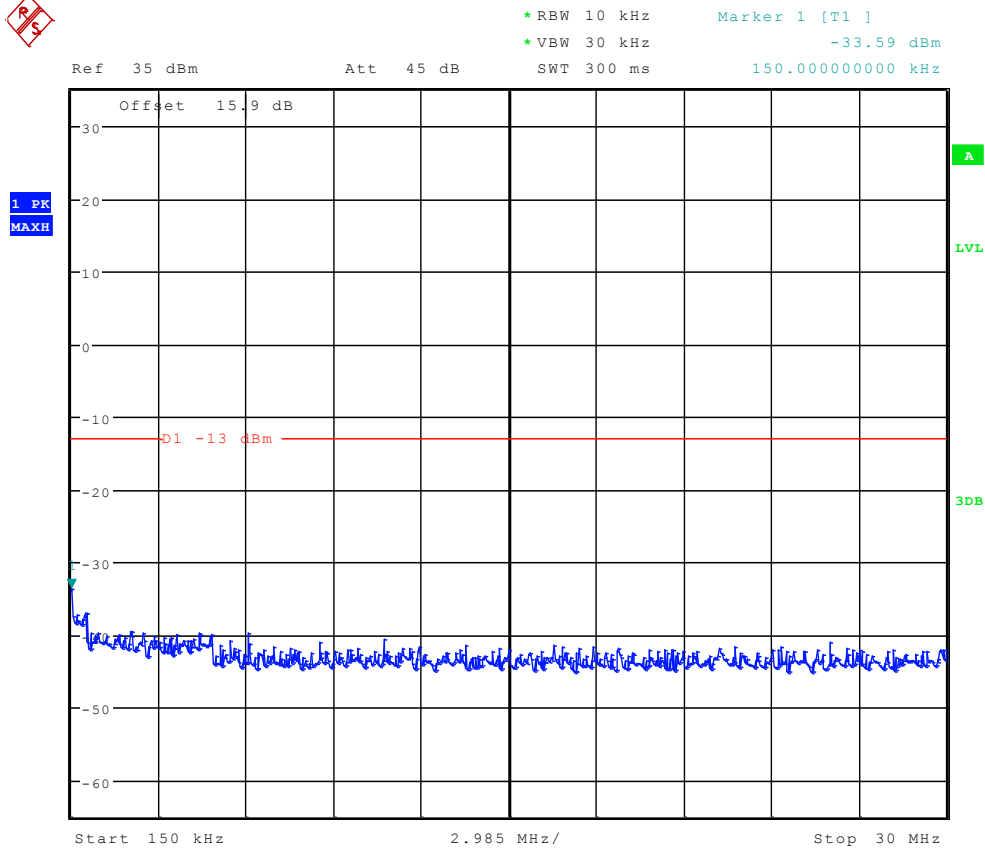




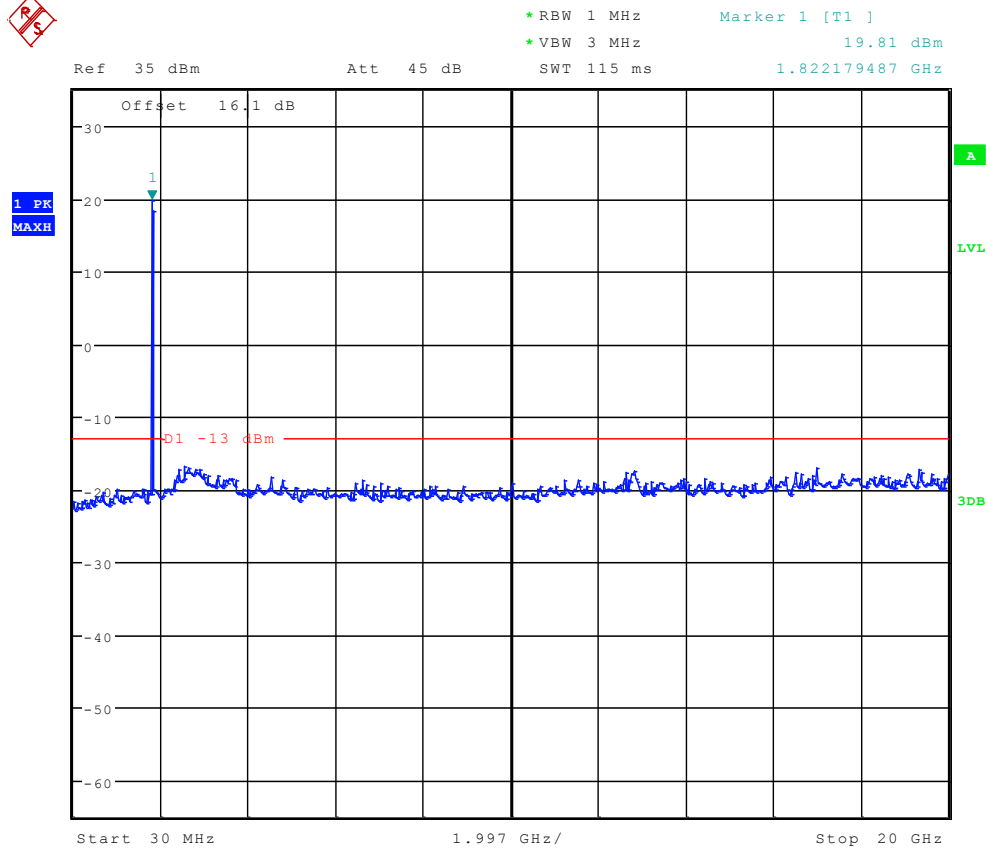
TM2:EDGE Channel 512



Date: 12.APR.2012 00:59:13



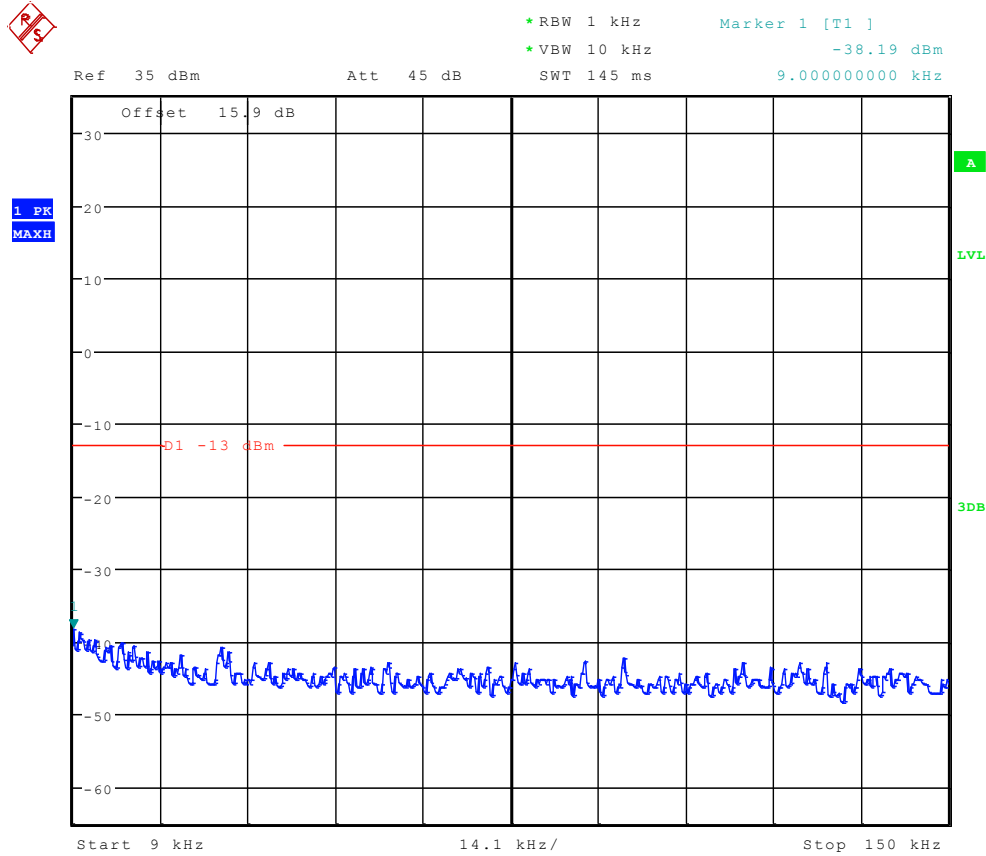
Date: 12.APR.2012 00:59:57



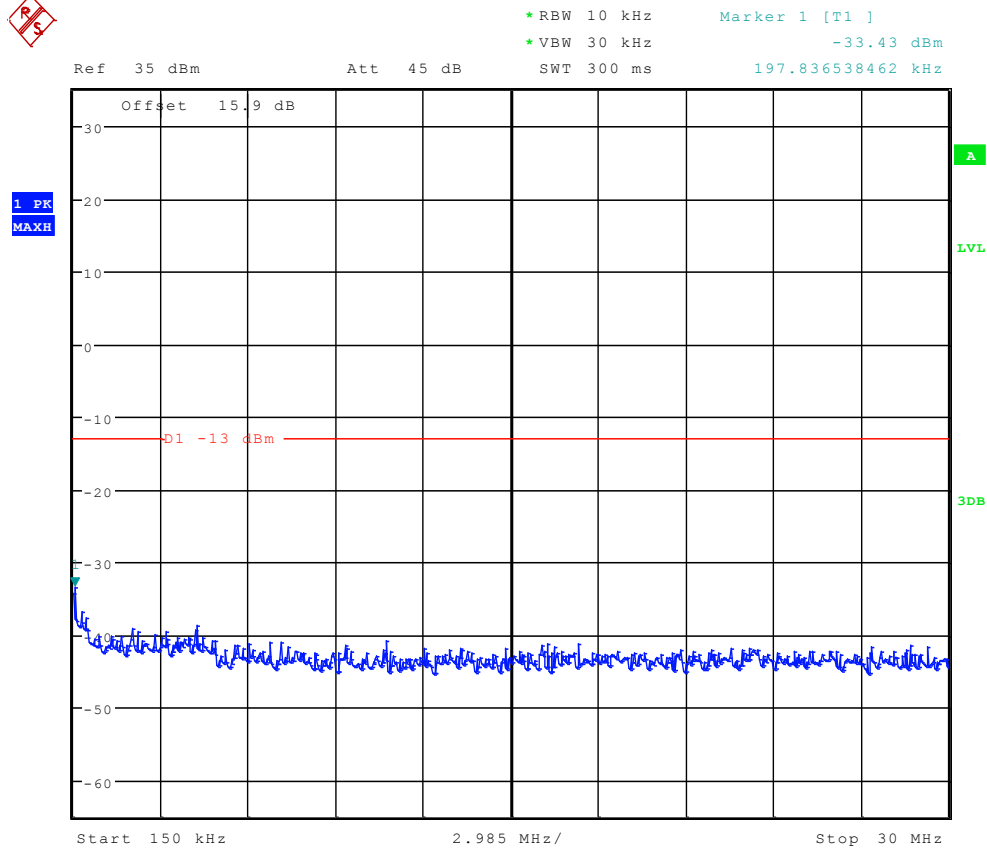
Date: 12.APR.2012 01:00:40



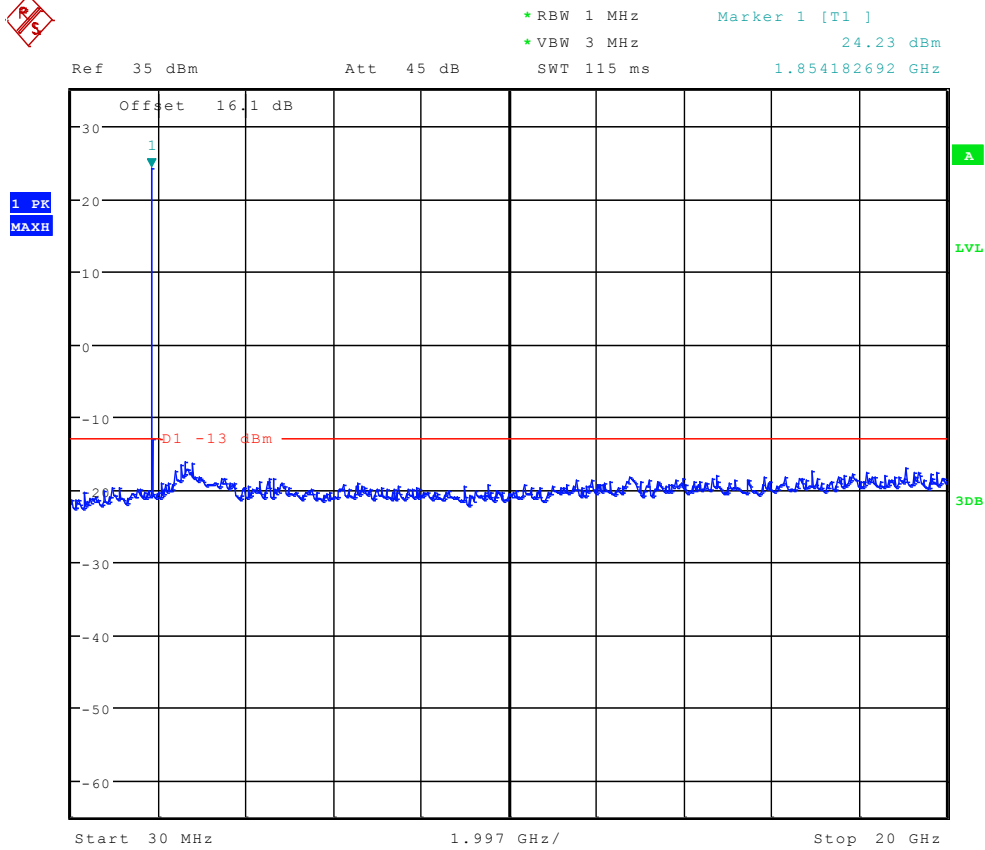
Channel 661



Date: 12.APR.2012 00:59:27



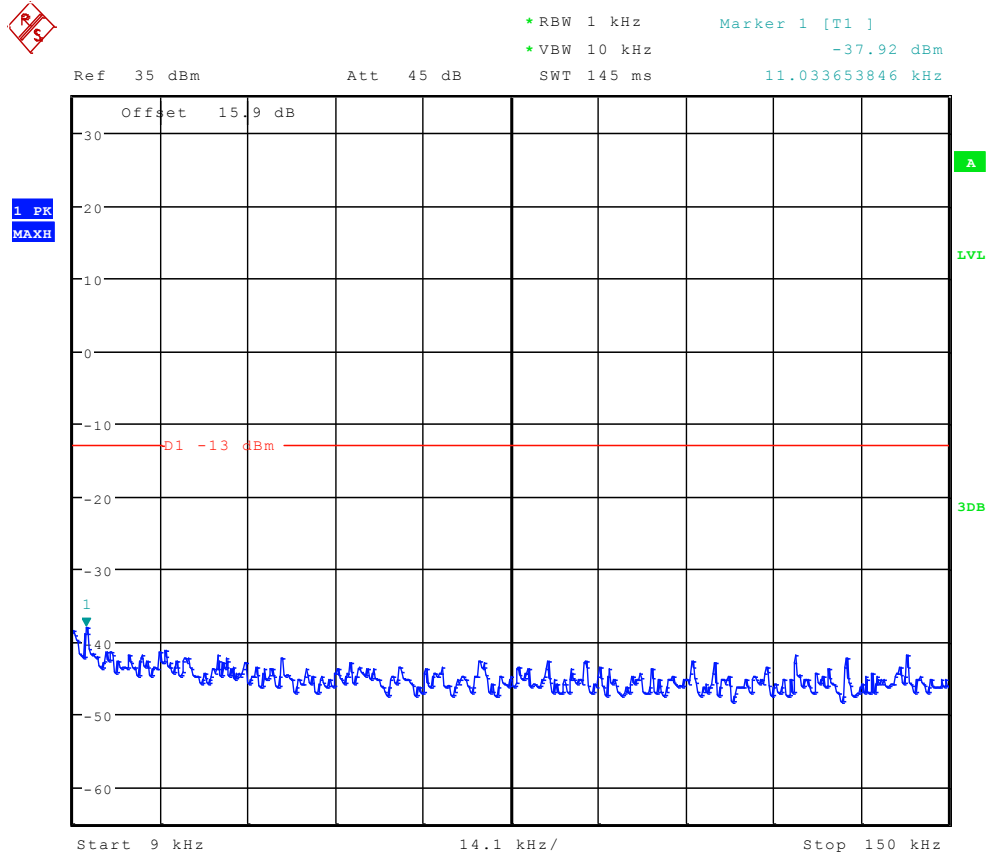
Date: 12.APR.2012 01:00:11



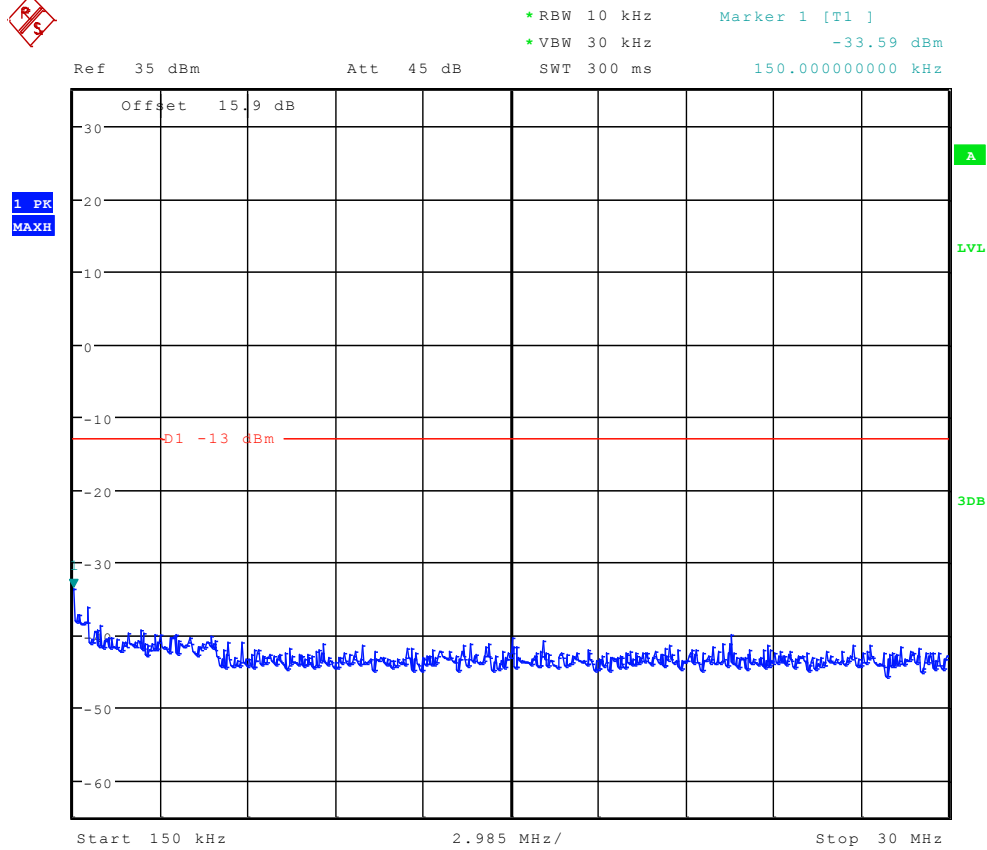
Date: 12.APR.2012 01:00:55



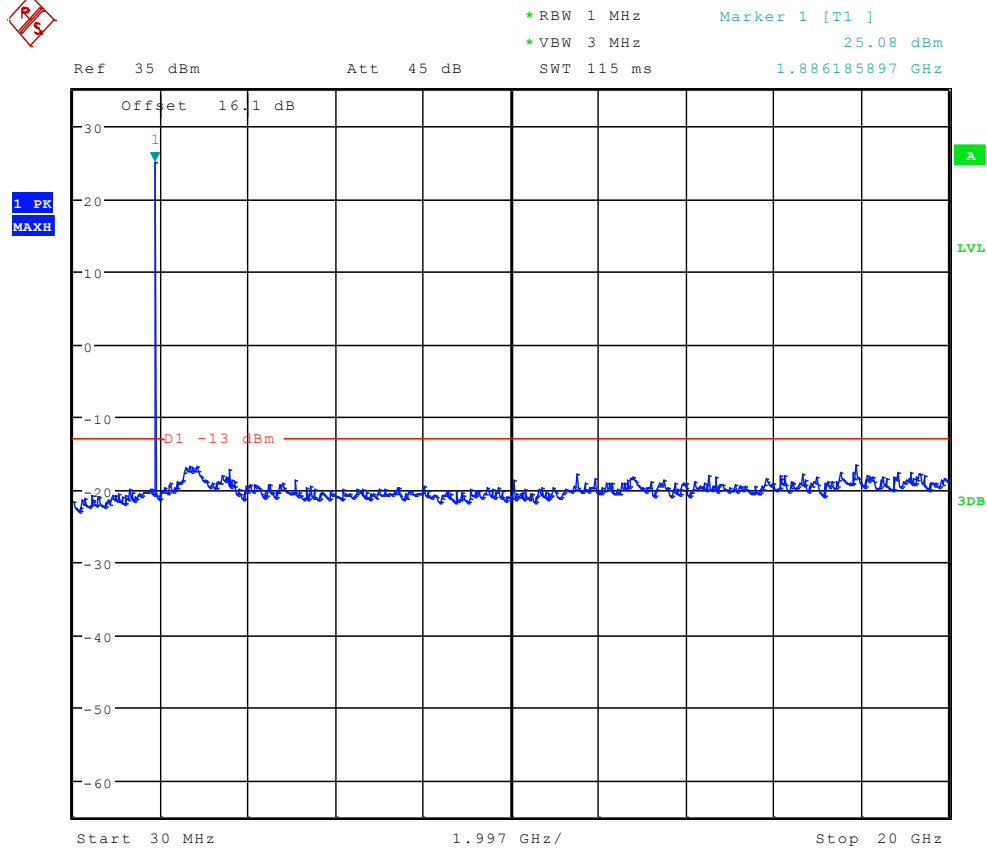
Channel 810



Date: 12.APR.2012 00:59:42



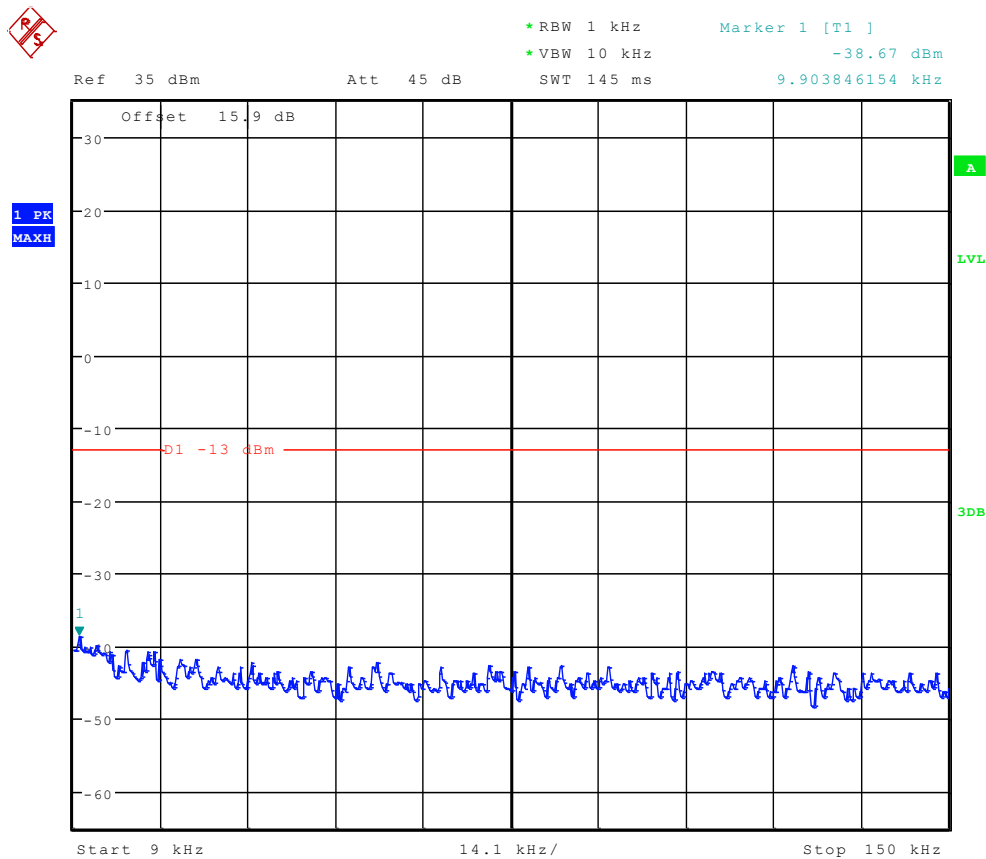
Date: 12.APR.2012 01:00:25



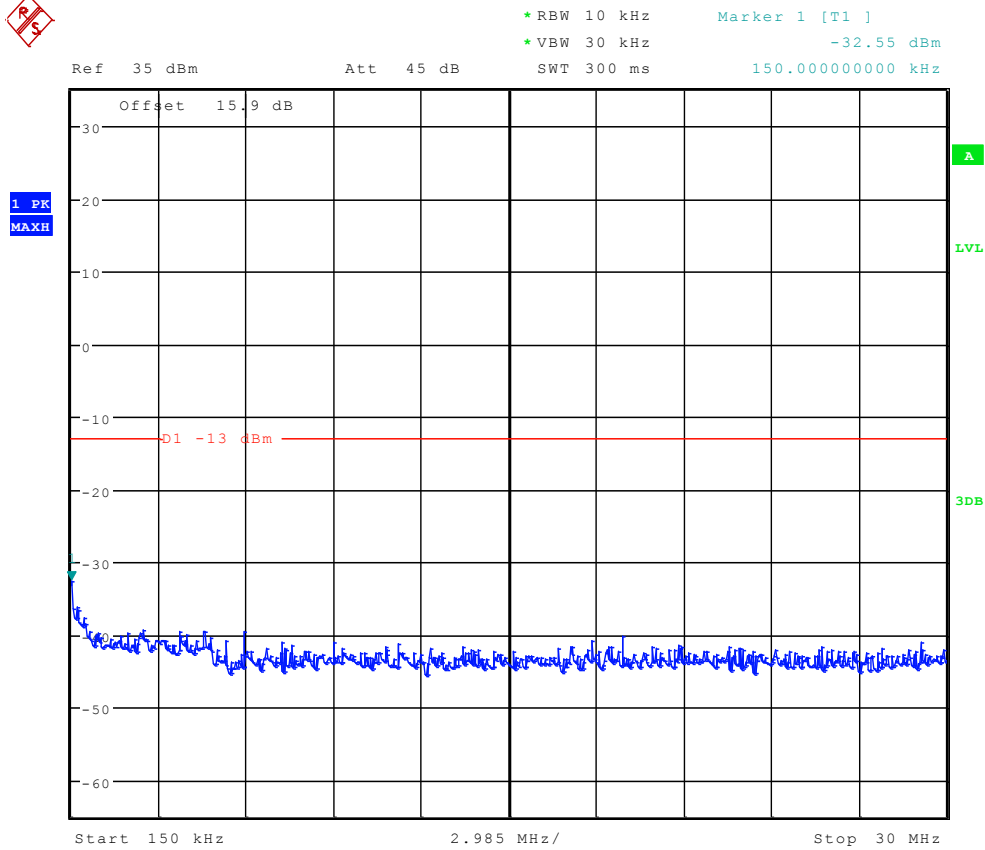
Date: 12.APR.2012 01:01:09



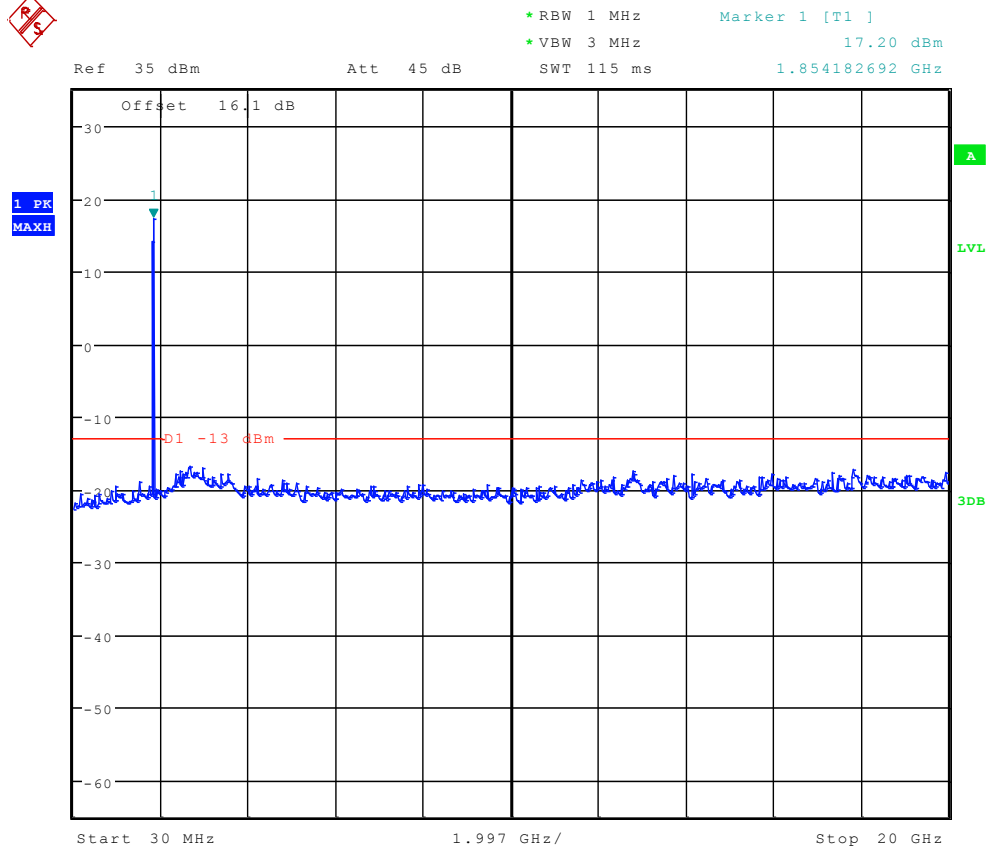
TM3: WCDMA Channel 9262



Date: 12.APR.2012 01:04:06



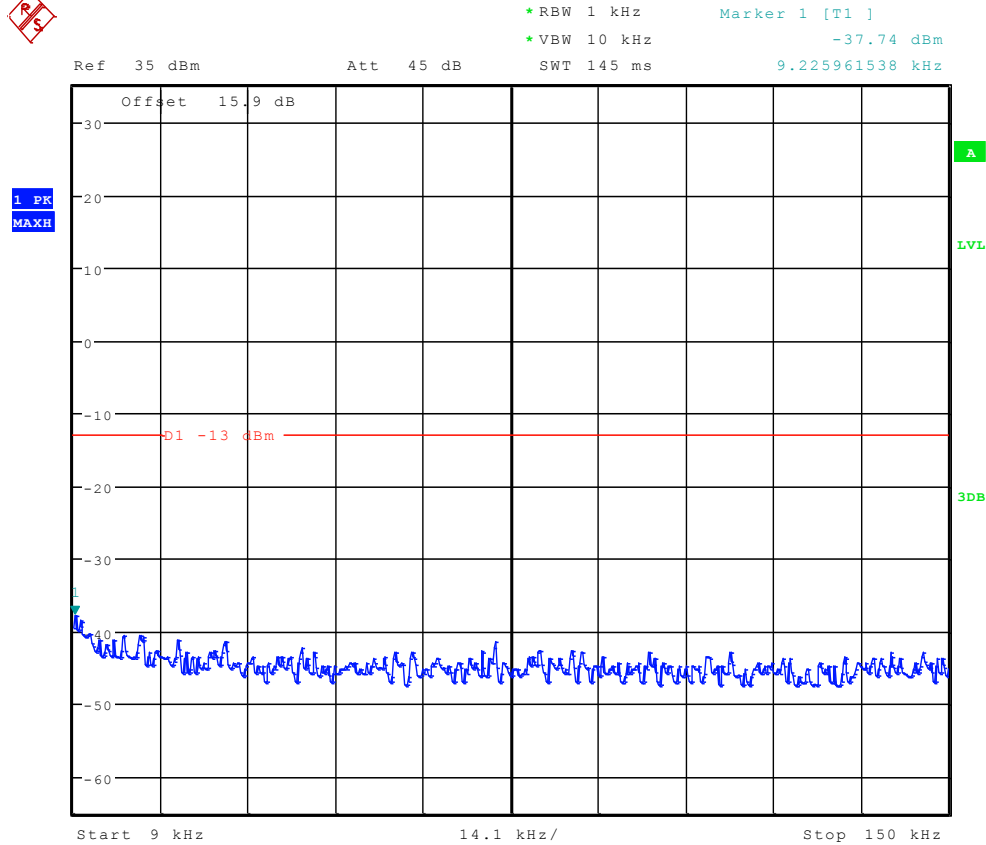
Date: 12.APR.2012 01:04:49



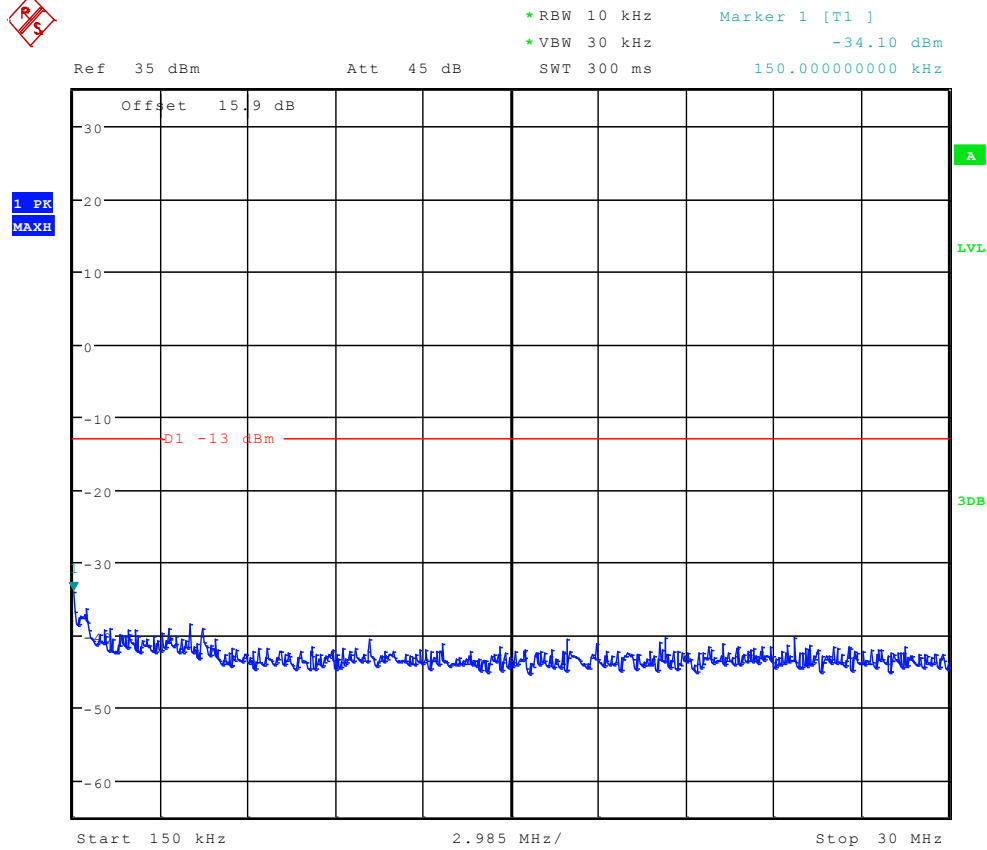
Date: 12.APR.2012 01:05:33



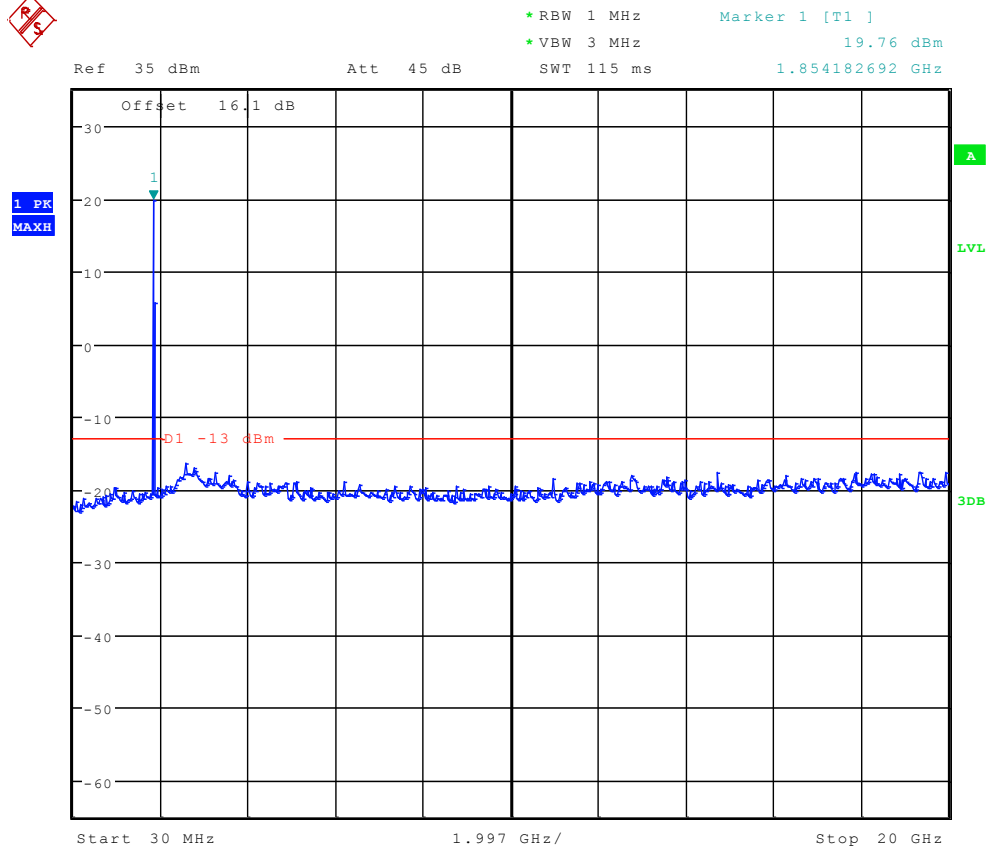
Channel 9400



Date: 12.APR.2012 01:04:20



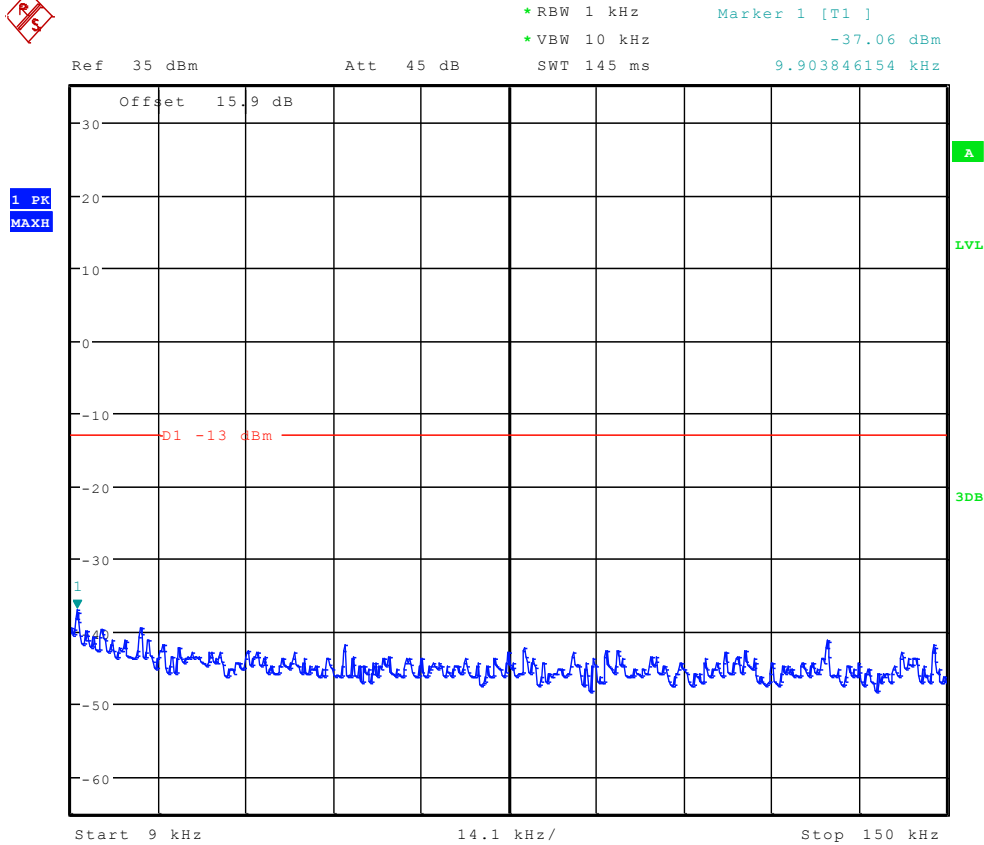
Date: 12.APR.2012 01:05:04



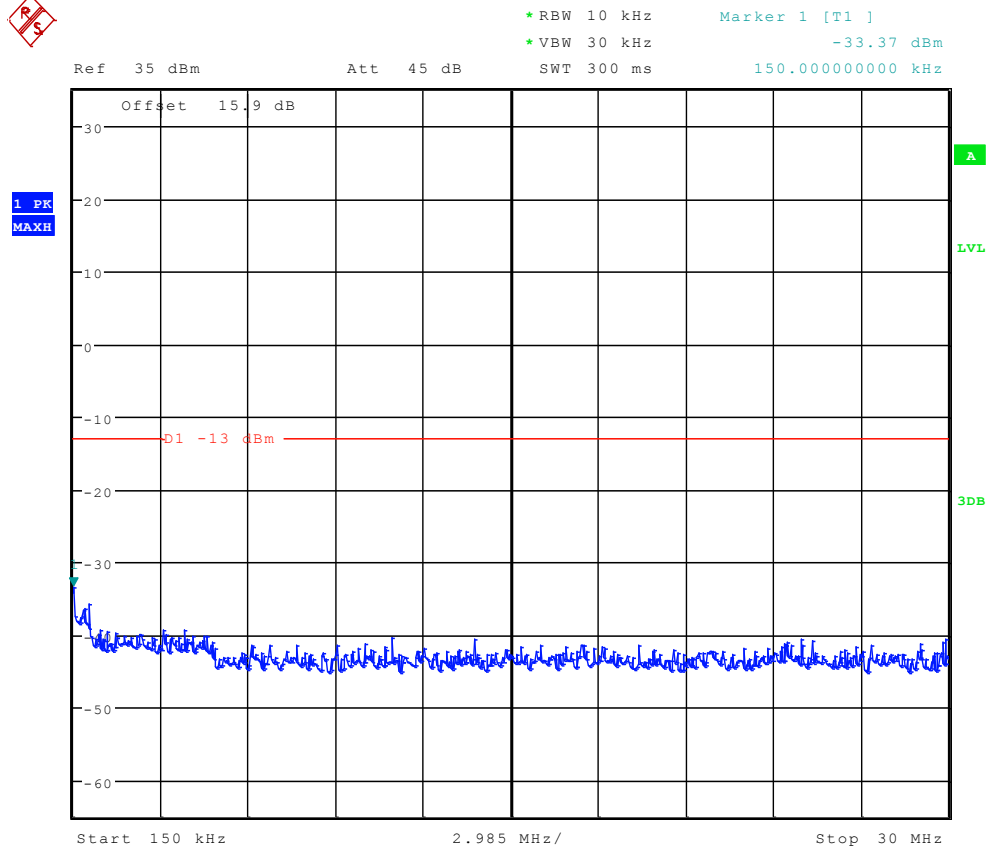
Date: 12.APR.2012 01:05:48



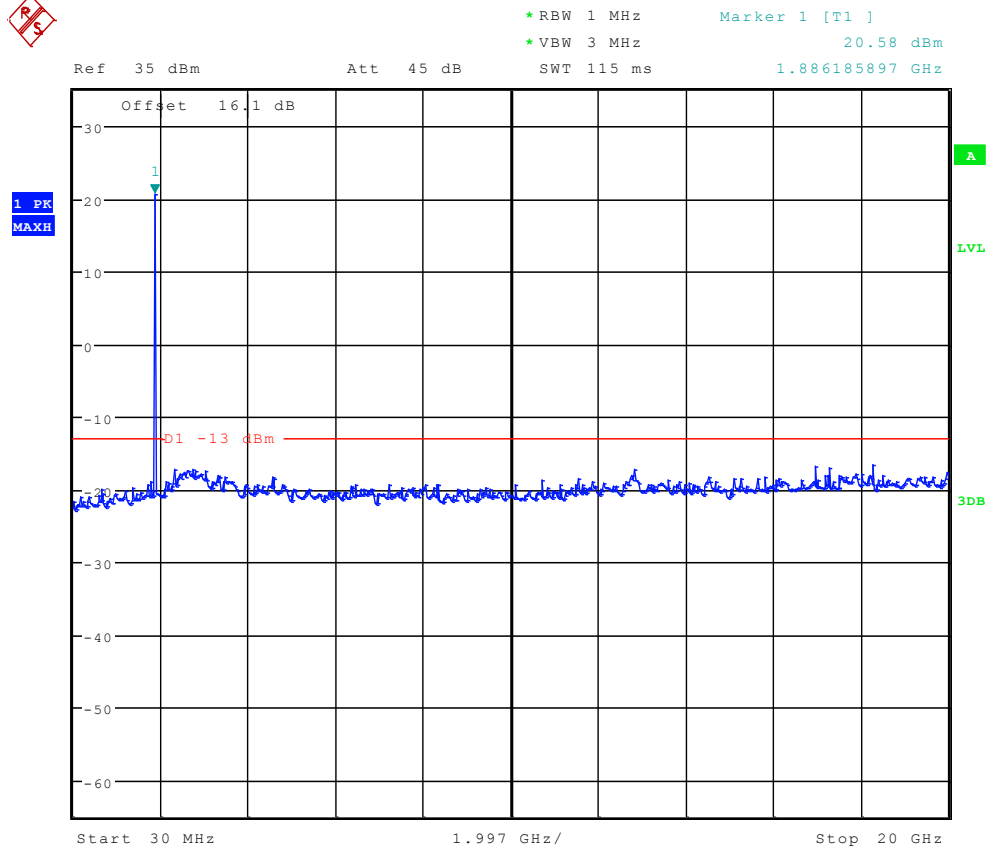
Channel 9538



Date: 12.APR.2012 01:04:35



Date: 12.APR.2012 01:05:18



Date: 12.APR.2012 01:06:02

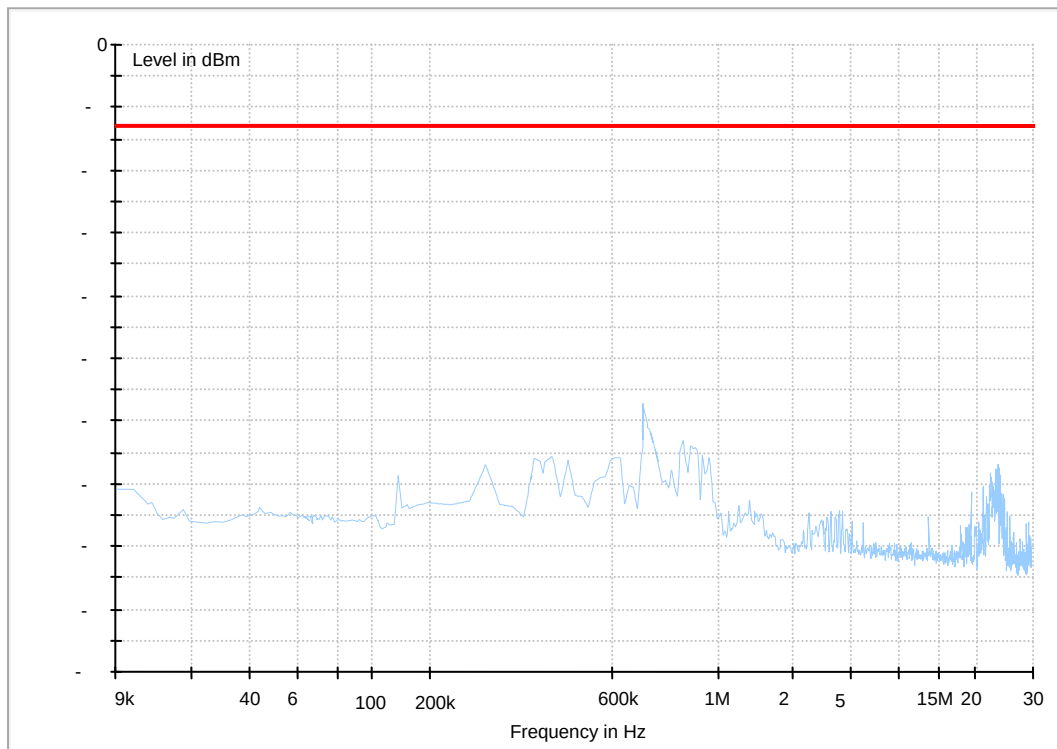
Appendix F

Radiated spurious emission

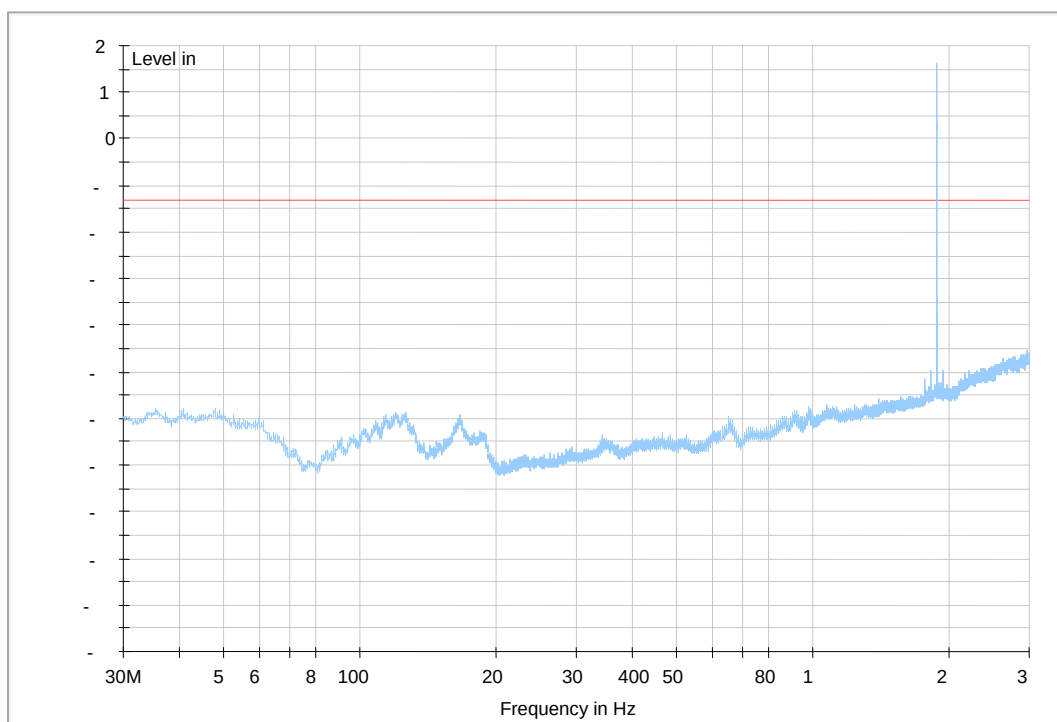
According to FCC Part 2.1053& Part 24.238

GSM 1900

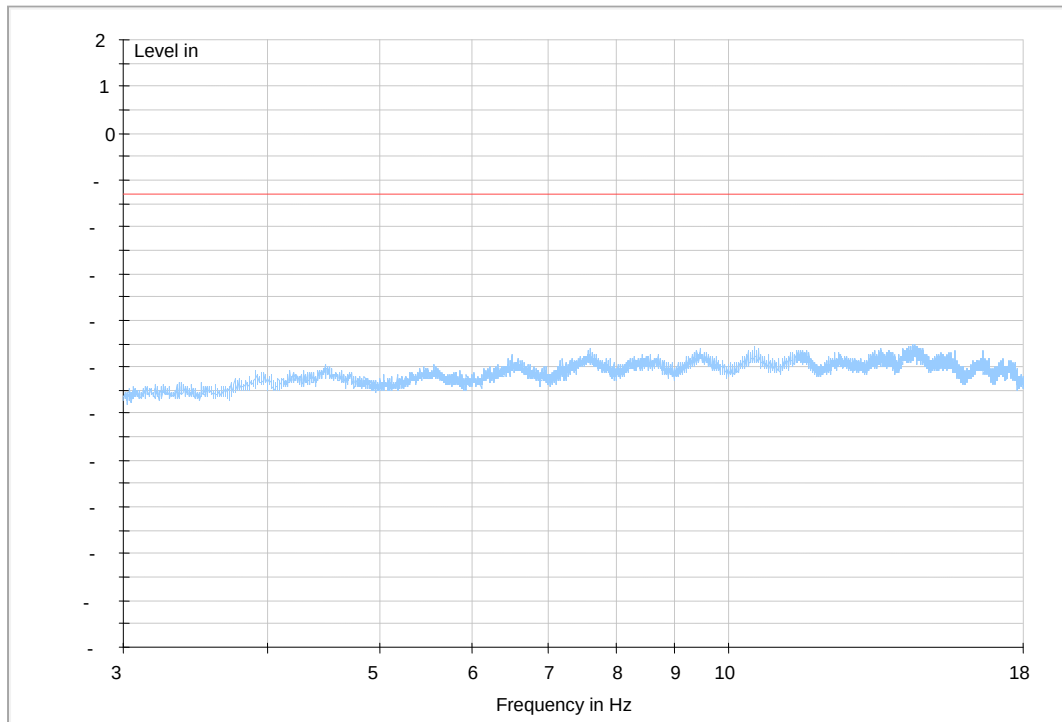
Traffic Mode (9kHz-30MHz)



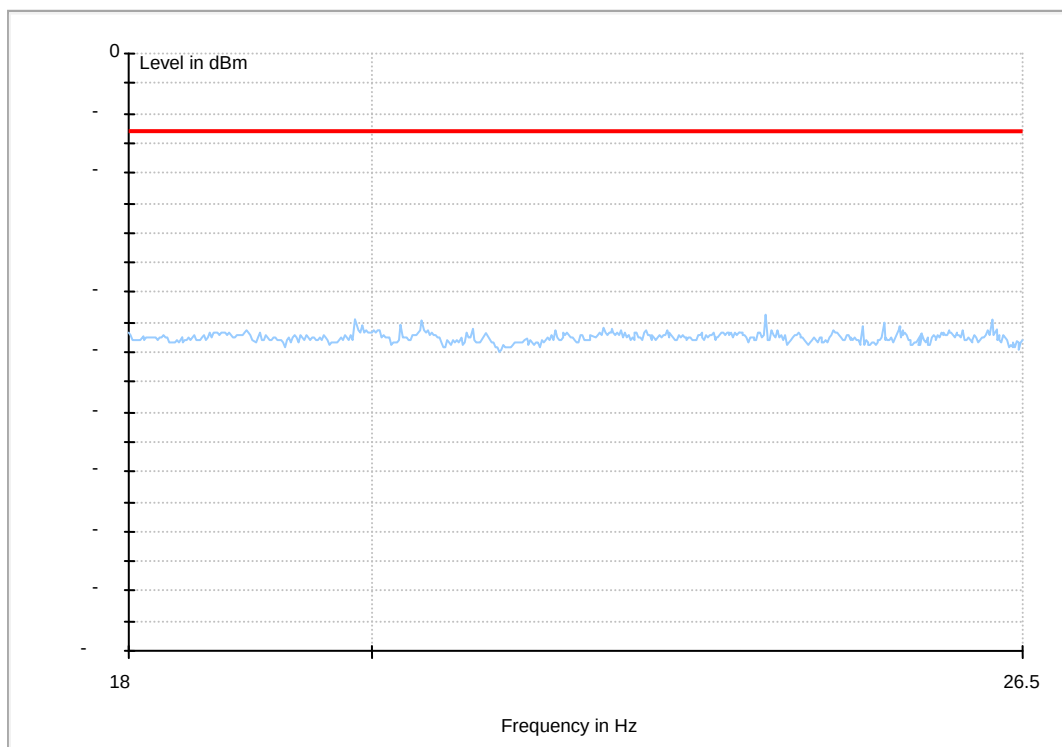
Traffic Mode (30MHz~3GHz)



Traffic Mode (3GHz~18GHz)

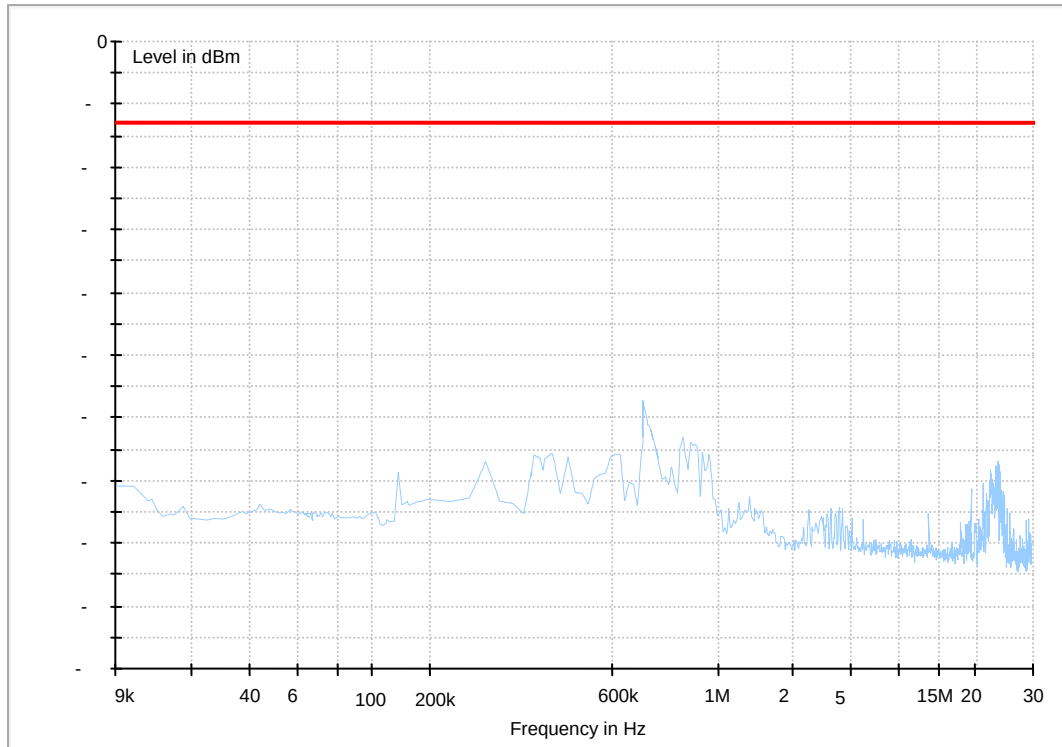


Traffic Mode (18GHz~26.5GHz)

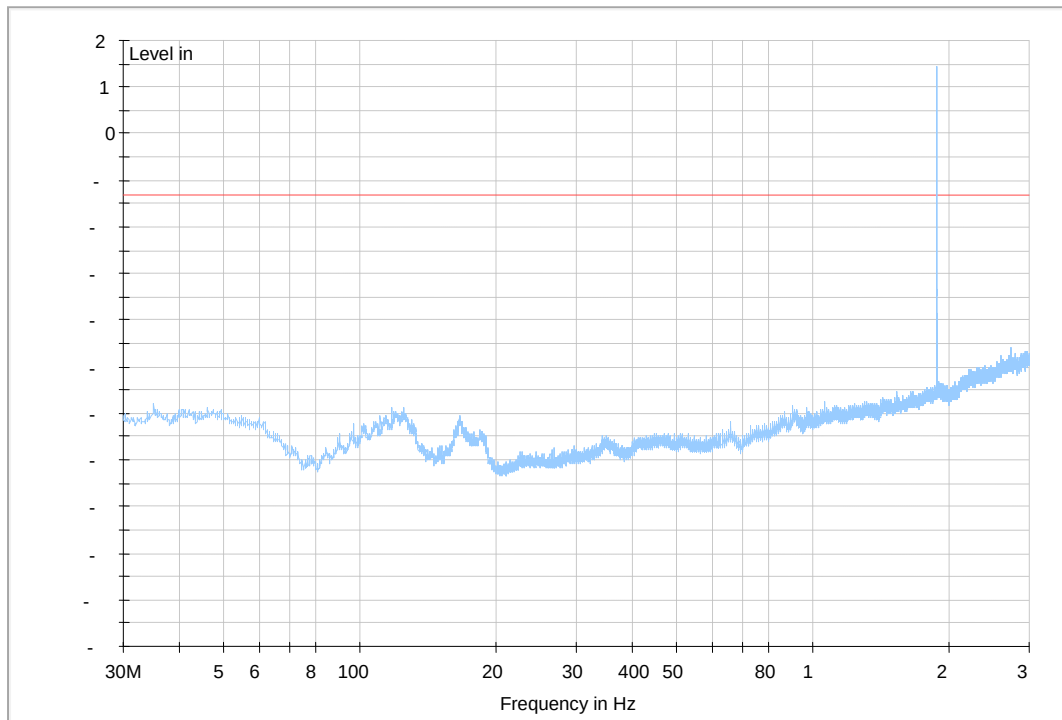


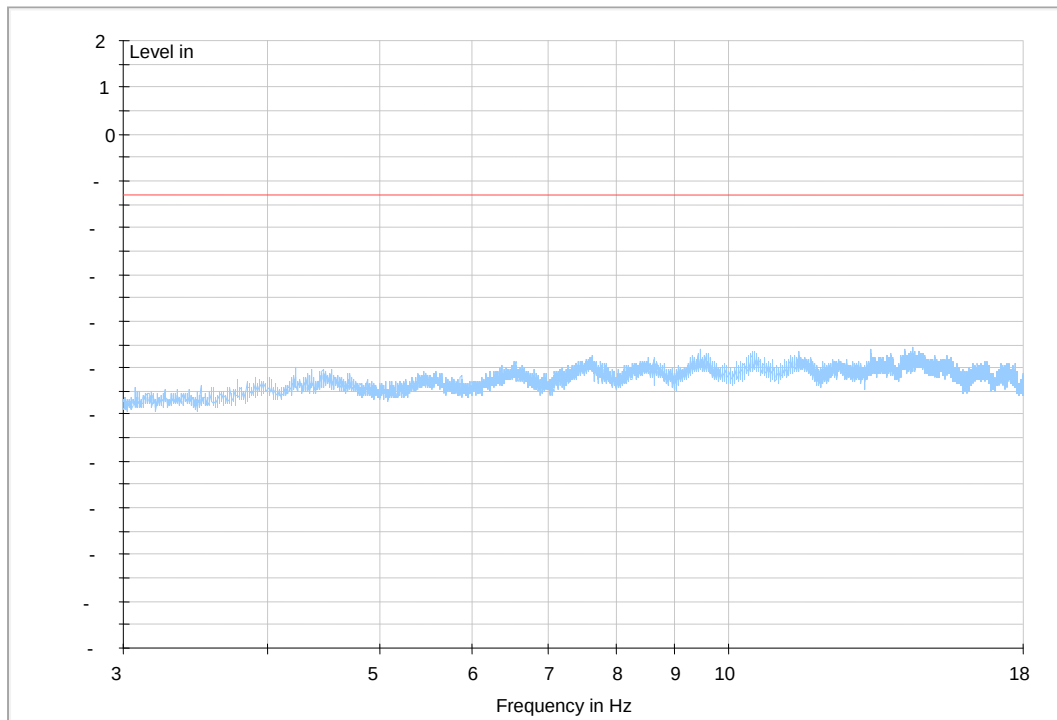
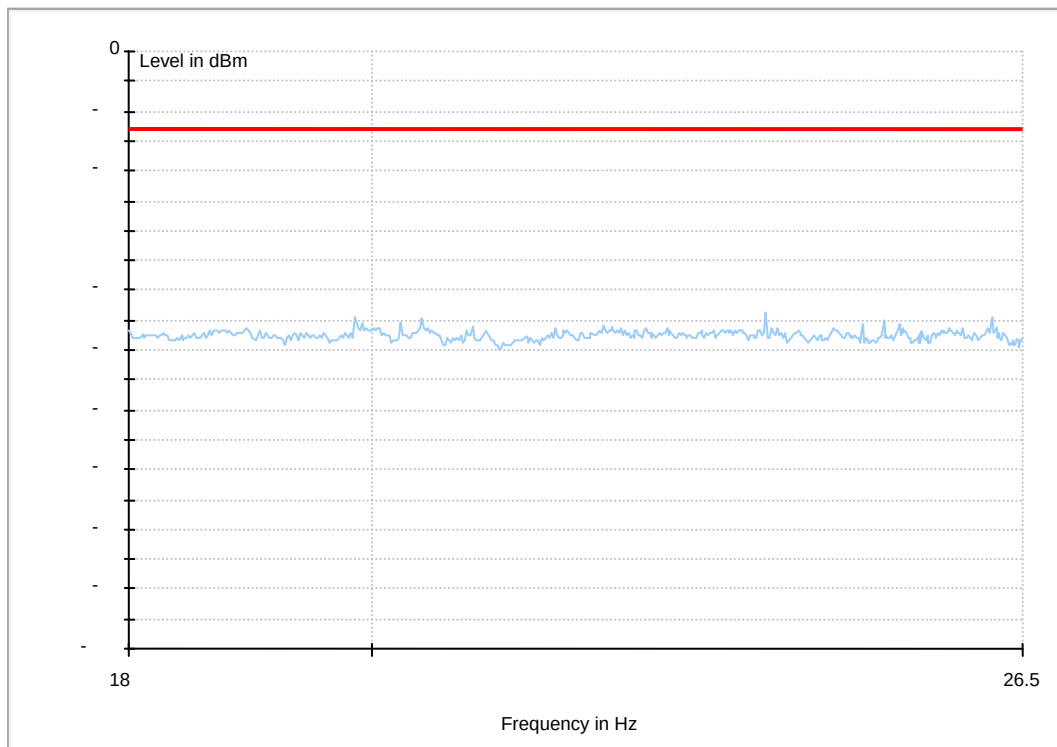
GPRS 1900

Traffic Mode (9kHz-30MHz)



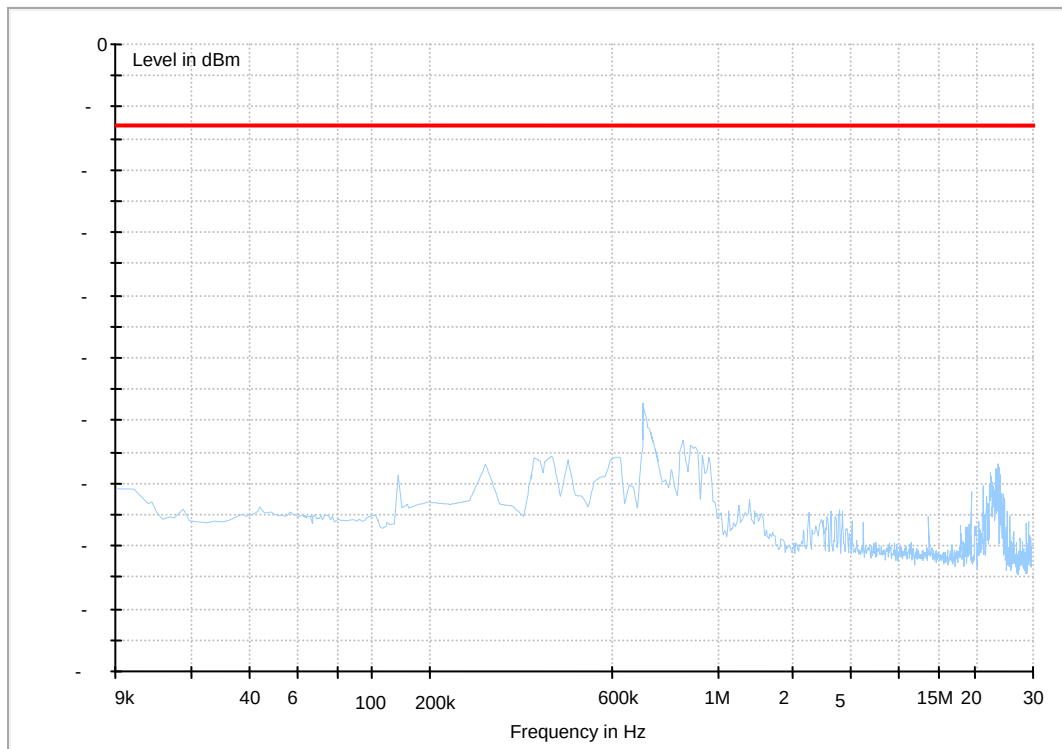
Traffic Mode (30MHz~3GHz)



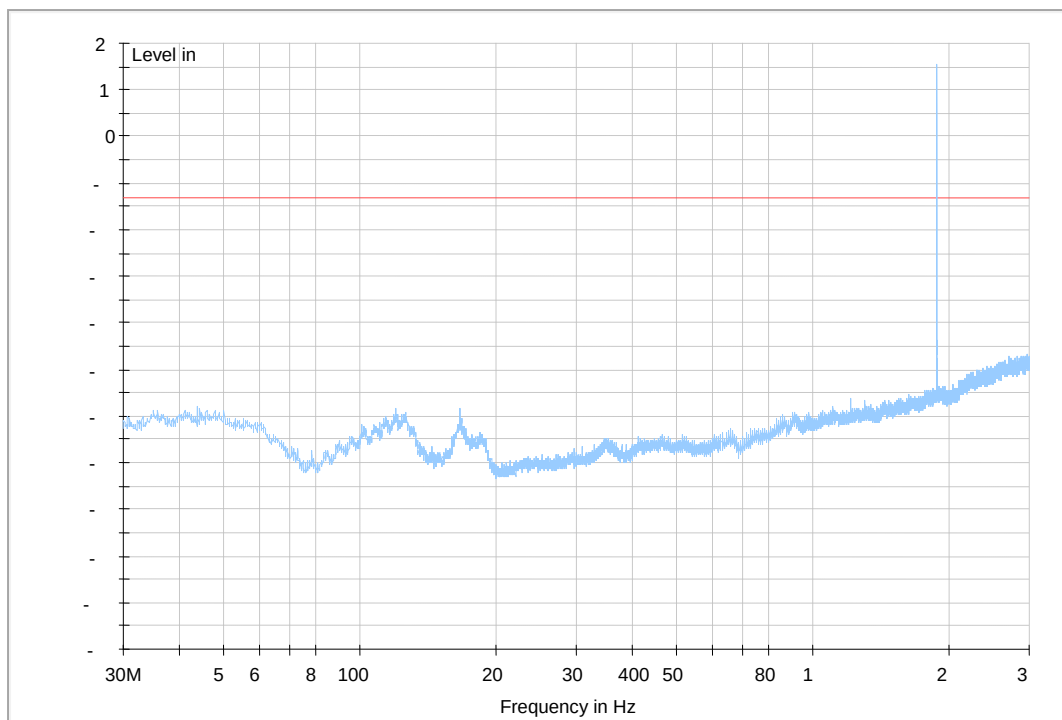
Traffic Mode (3GHz~18GHz)**Traffic Mode (18GHz-26.5GHz)**

EDGE 1900

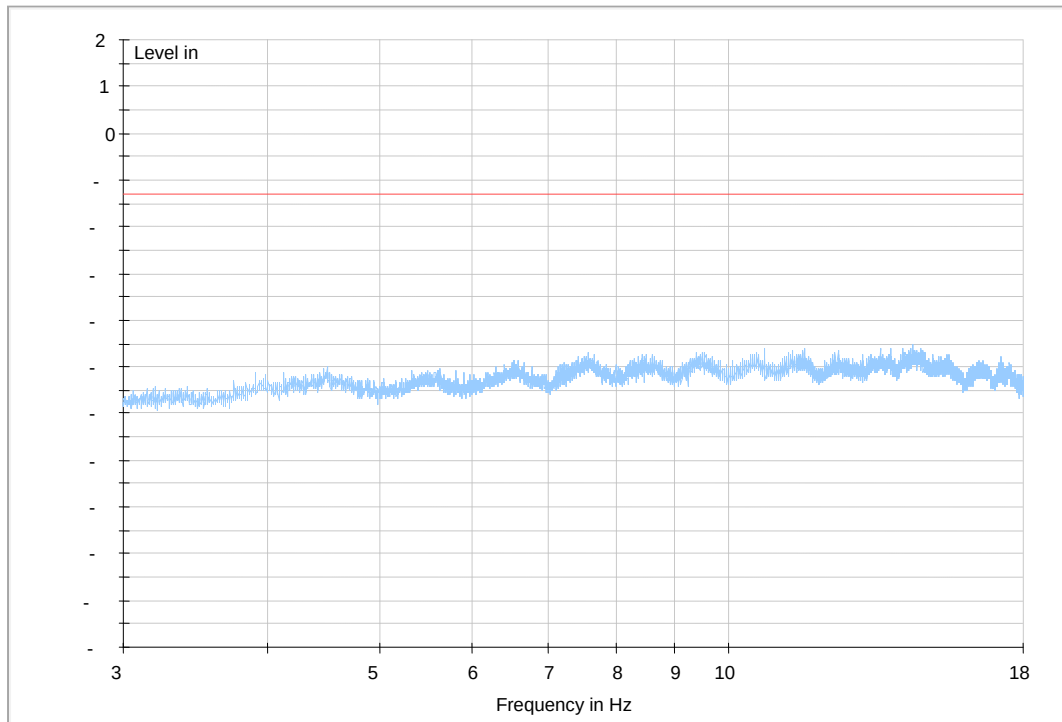
Traffic Mode (9kHz-30MHz)



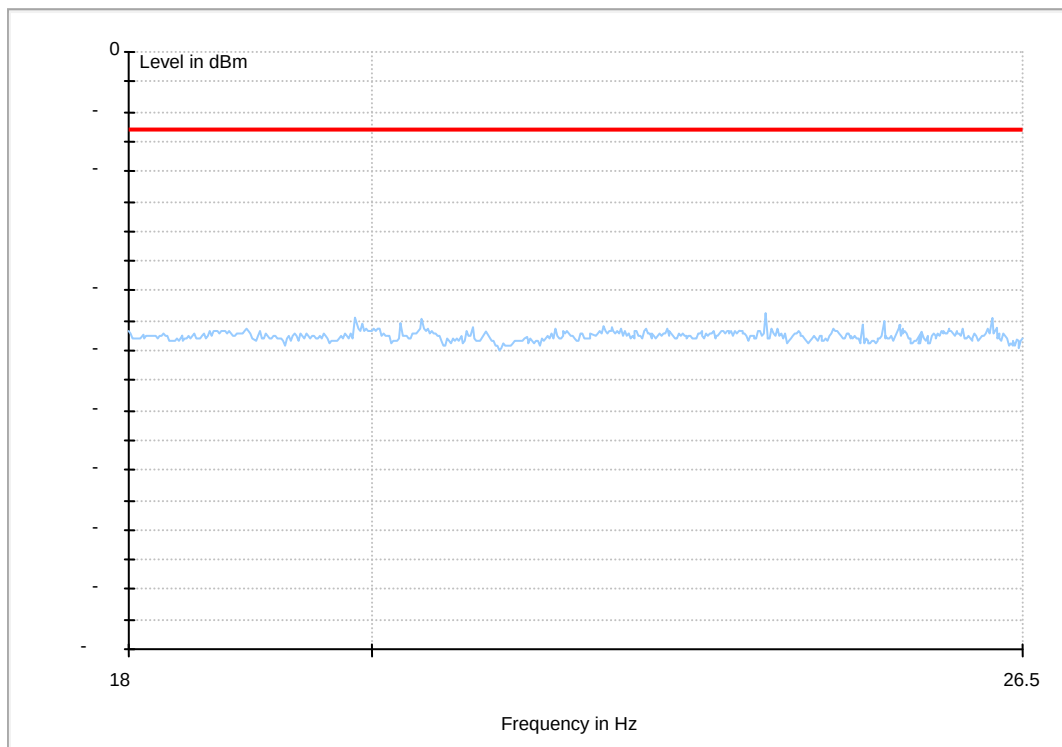
Traffic Mode (30MHz~3GHz)



Traffic Mode (3GHz~18GHz)

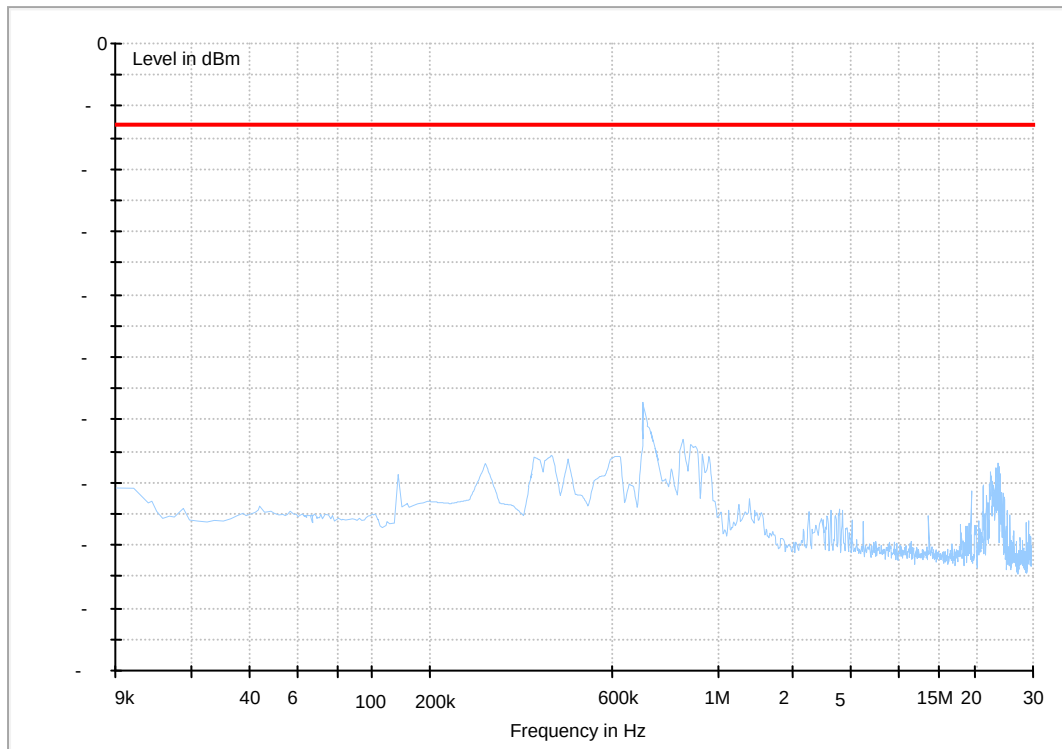


Traffic Mode (18GHz~26.5GHz)

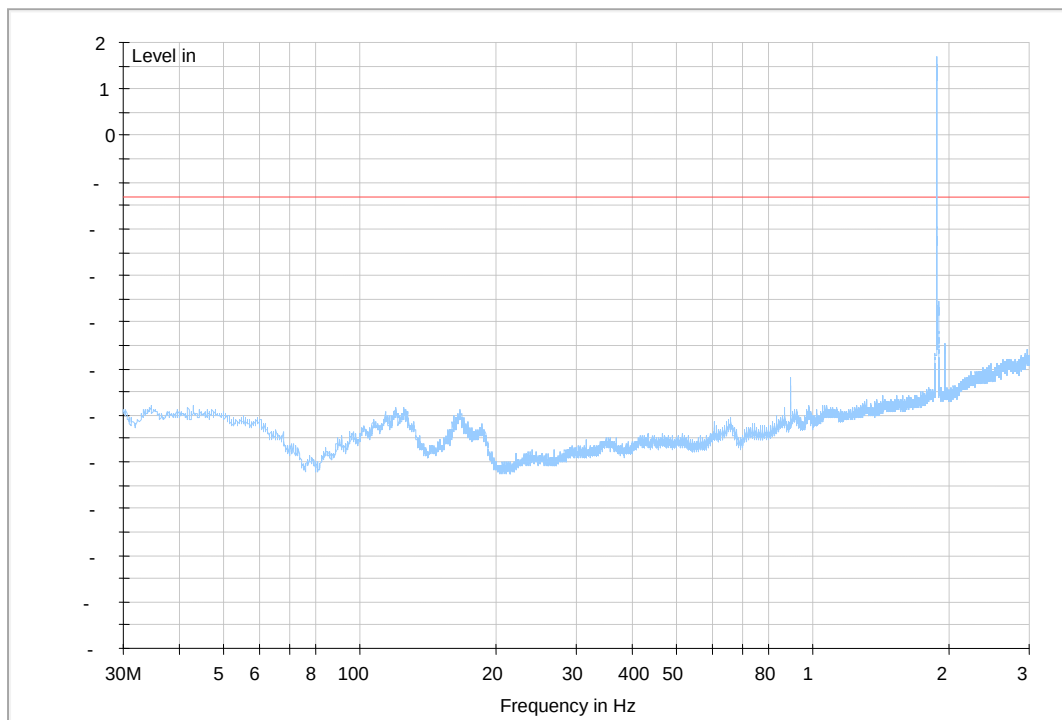


WCDMA Band II

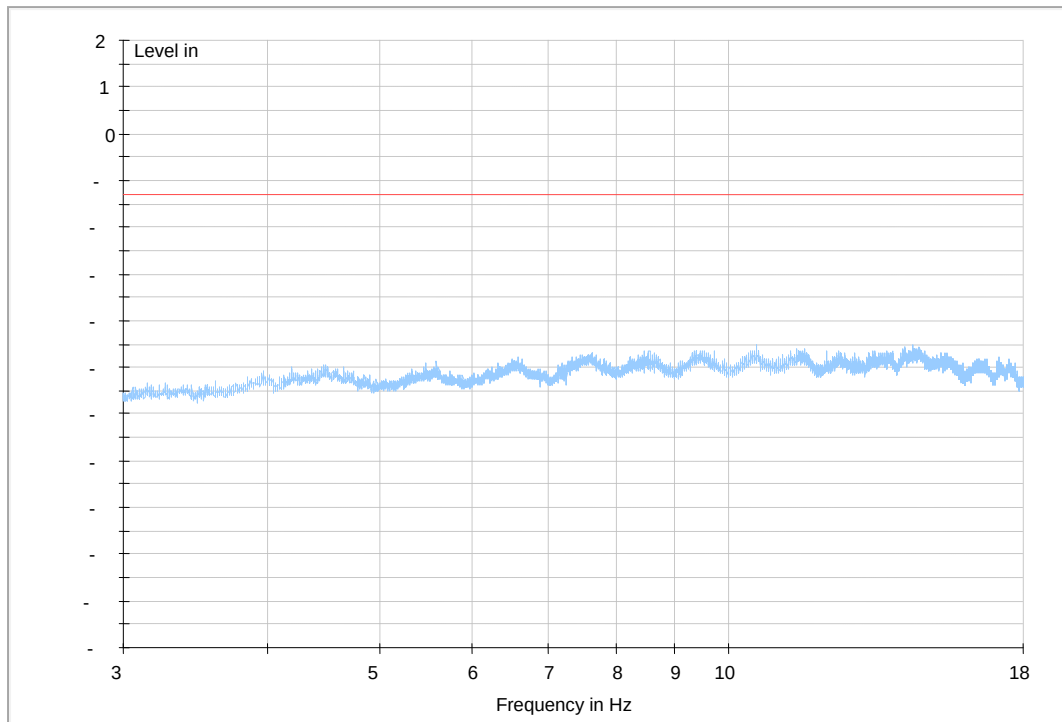
Traffic Mode (9KHz~30MHz)



Traffic Mode (30MHz~3GHz)



Traffic Mode (3GHz~18GHz)

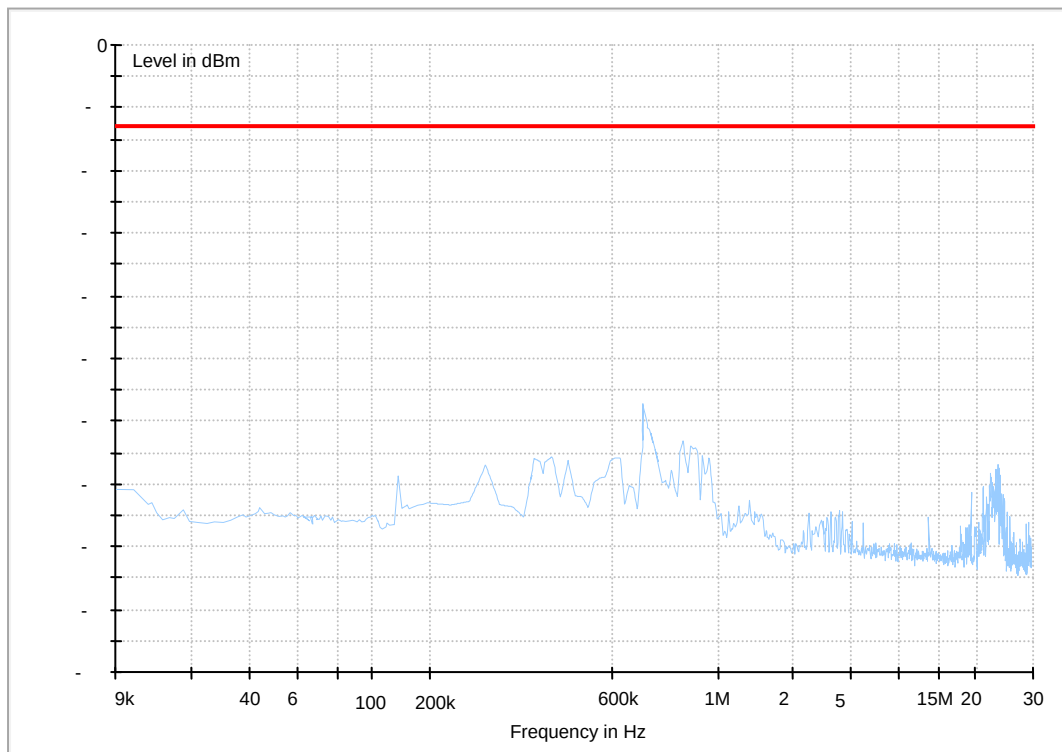


Traffic Mode (18GHz~26.5GHz)

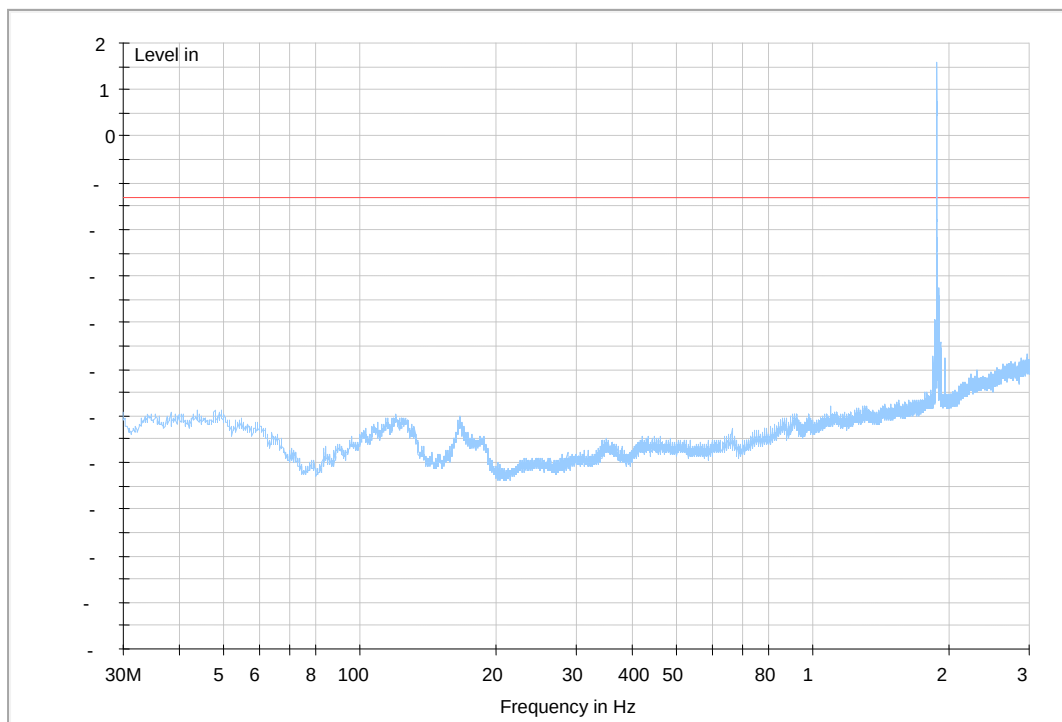


HSDPA Band II

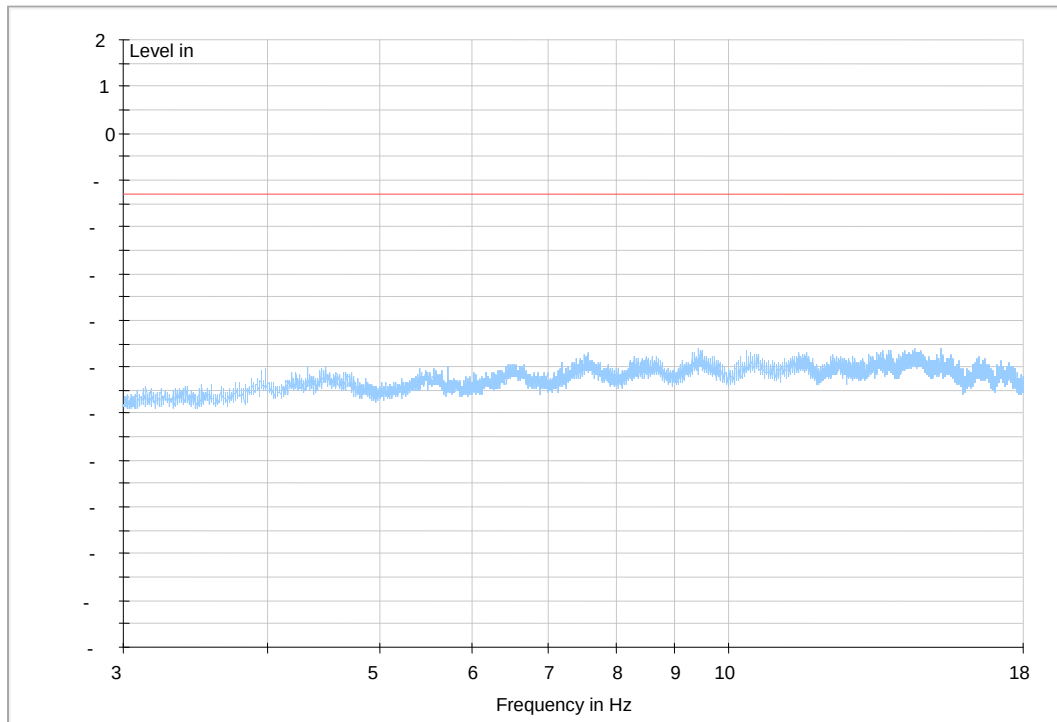
Traffic Mode (9KHz~30MHz)



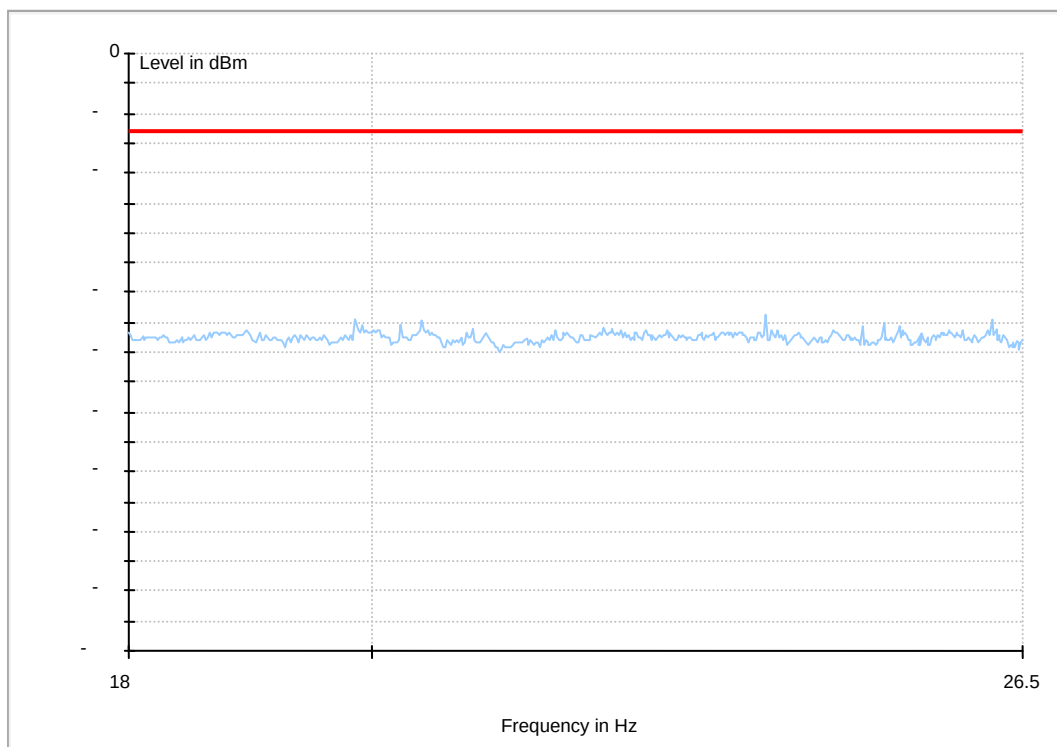
Traffic Mode (30MHz ~3GHz)



Traffic Mode (3GHz~18GHz)

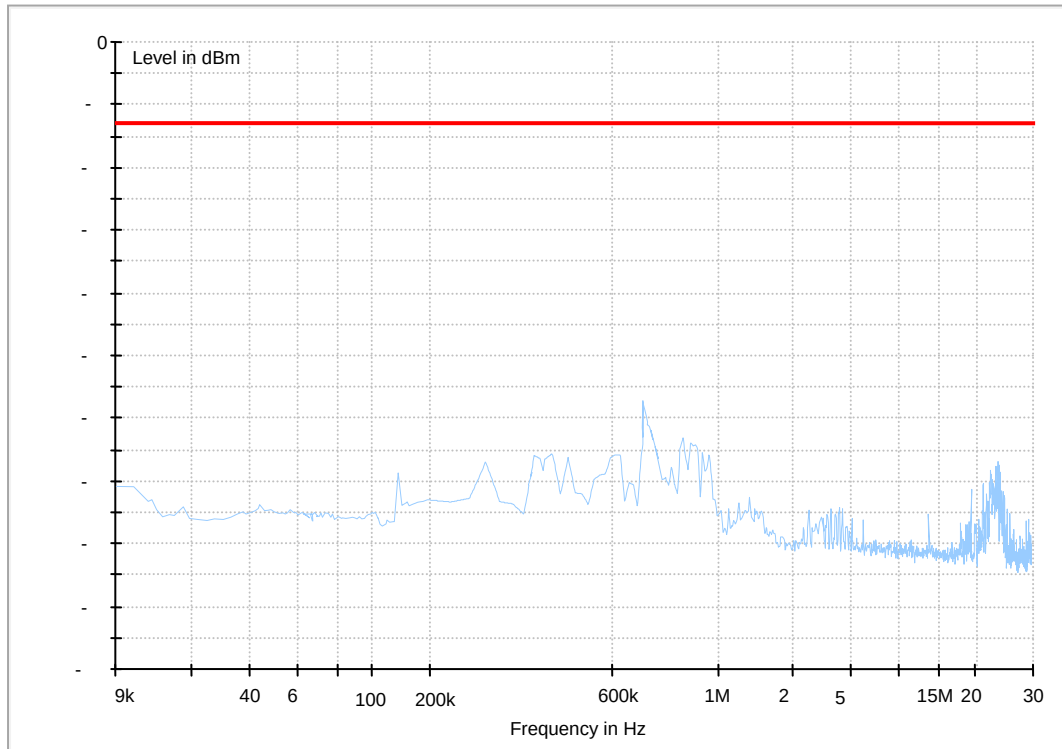


Traffic Mode (18GHz~26.5GHz)

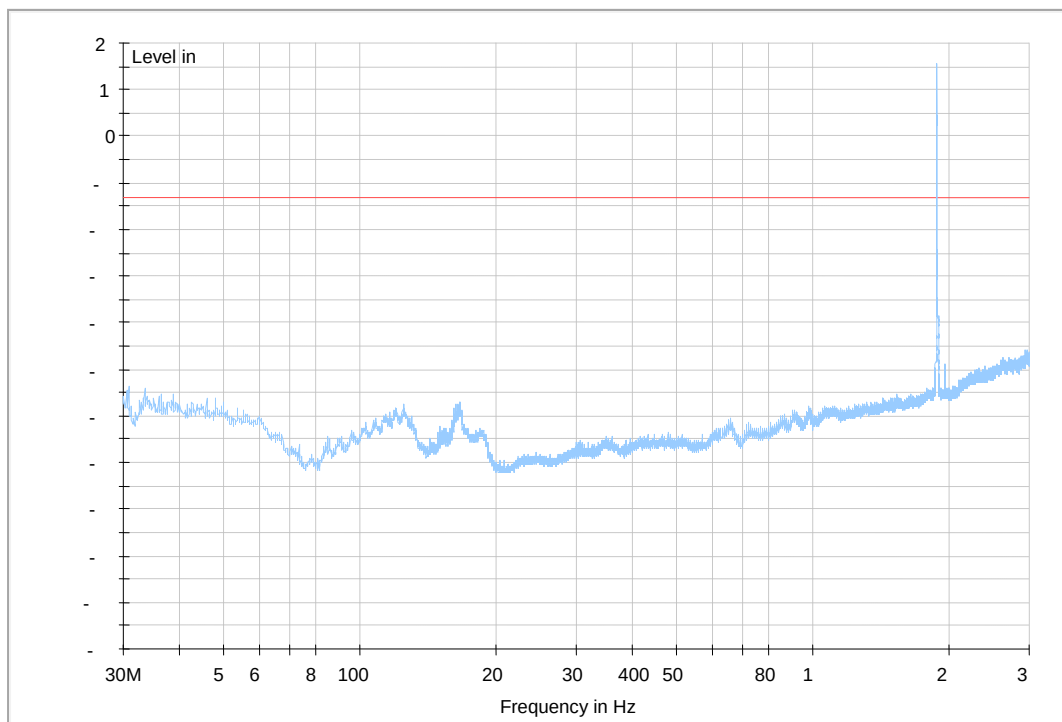


HSUPA Band II

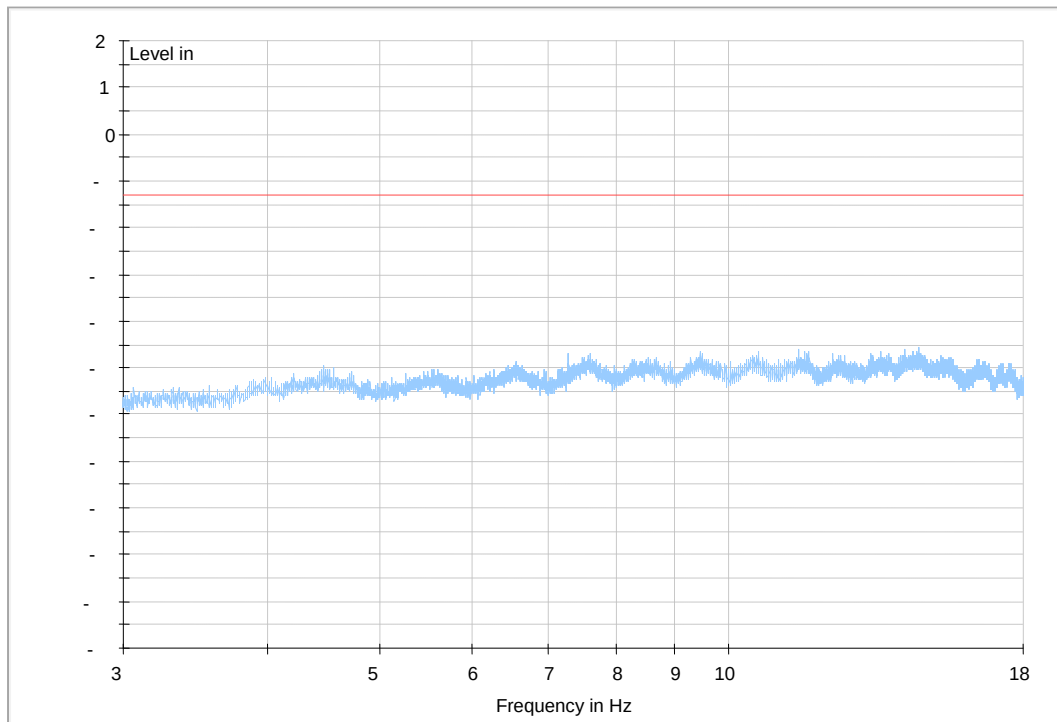
Traffic Mode (9KHz~30MHz)



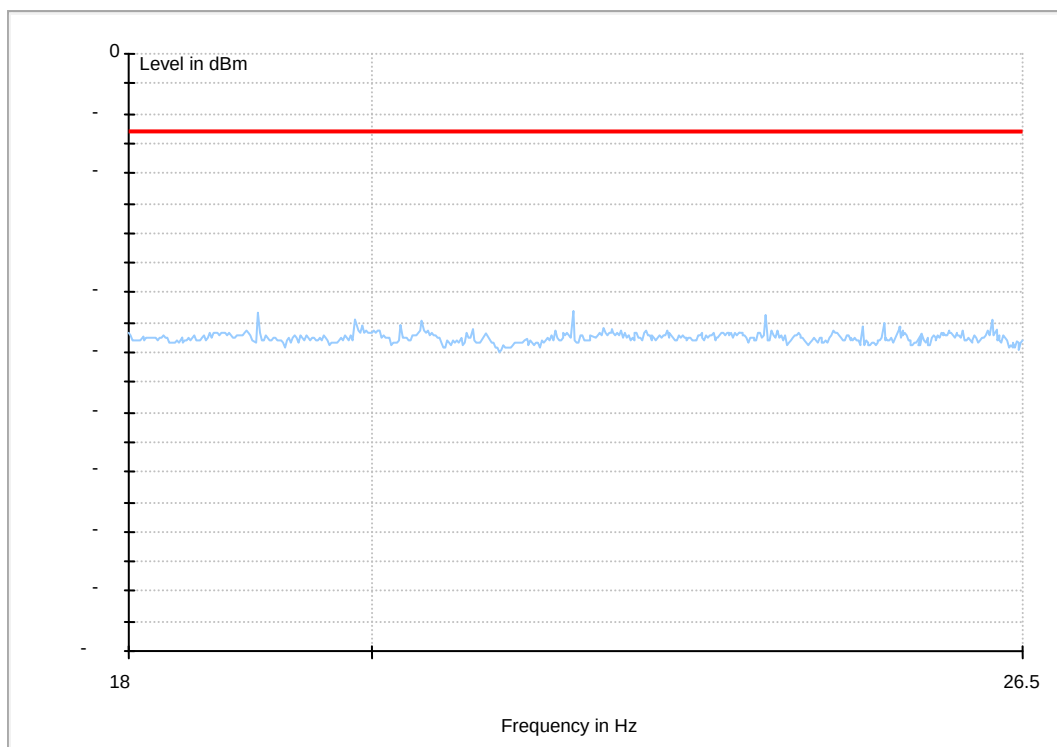
Traffic Mode (30MHz~3GHz)



Traffic Mode (3GHz~18GHz)



Traffic Mode (18GHz~26.5GHz)





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	12	0.0064	---	±2.5	Pass
			-10 °C	11	0.0059	---	±2.5	Pass
			0 °C	13	0.0069	---	±2.5	Pass
			10 °C	-15	-0.0080	---	±2.5	Pass
			20 °C	-13	-0.0069	---	±2.5	Pass
			30 °C	-12	-0.0064	---	±2.5	Pass
			40 °C	7	0.0037	---	±2.5	Pass
TM 2	M	100%	50 °C	-16	-0.0085	---	±2.5	Pass
			-30 °C	17	0.0090	---	±2.5	Pass
			-20 °C	12	0.0064	---	±2.5	Pass
			-10 °C	15	0.0080	---	±2.5	Pass
			0 °C	-13	-0.0069	---	±2.5	Pass
			10 °C	13	0.0069	---	±2.5	Pass
			20 °C	-17	-0.0090	---	±2.5	Pass
			30 °C	-15	-0.0080	---	±2.5	Pass
TM 3	M	100%	40 °C	14	0.0074	---	±2.5	Pass
			50 °C	-15	-0.0080	---	±2.5	Pass
			-30 °C	15	0.0080	---	±2.5	Pass
			-20 °C	-18	-0.0096	---	±2.5	Pass
			-10 °C	-15	-0.0080	---	±2.5	Pass
			0 °C	13	0.0069	---	±2.5	Pass
			10 °C	11	0.0059	---	±2.5	Pass
			20 °C	-17	-0.0090	---	±2.5	Pass
			30 °C	-14	-0.0074	---	±2.5	Pass
			40 °C	13	0.0069	---	±2.5	Pass
			50 °C	10	0.0053	---	±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	VL	17	0.0090	---	±2.5	Pass
			VN	-16	-0.0085	---	±2.5	Pass
			VH	17	0.0090	---	±2.5	Pass
TM 2	M	20 °C	VL	10	0.0053	---	±2.5	Pass
			VN	-9	-0.0048	---	±2.5	Pass
			VH	-15	-0.0080	---	±2.5	Pass
TM 3	M	20 °C	VL	12	0.0064	---	±2.5	Pass
			VN	-16	-0.0085	---	±2.5	Pass
			VH	10	0.0053	---	±2.5	Pass

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

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