



FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E

TEST REPORT

For

Intelligent Vehicle Telematics Computer

Model: VTC6110

Trade Name: NEXCOM

Issued to

**NEXCOM international Co.,LTD
18F NO, 716 , Chung-Cheng, Chung-Ho,
Taipei Hsien235 ,Taiwan ,R. O. C.**

Issued by



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1. TEST RESULT CERTIFICATION

Applicant: NEXCOM international Co.,LTD
 18F NO, 716 , Chung-Cheng, Chung-Ho,
 Taipei Hsien235 ,Taiwan ,R. O. C.

Equipment Under Test: Intelligent Vehicle Telematics Computer

Trade Name: NEXCOM

Model Number: VTC6110

Date of Test: June 2 ~ 12, 2010

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 22 Subpart H & Part 24 Subpart E	No non-compliance noted

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C: 2004 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 Subpart H and PART 24 Subpart E.

The test results of this report relate only to the tested sample identified in this report.

Approved by:

Reviewed by:

Rex Lai
 Section Manager
 Compliance Certification Services Inc.

Gina Lo
 Section Manager
 Compliance Certification Services Inc.



2. EUT DESCRIPTION

Product	Intelligent Vehicle Telematics Computer
Trade Name	NEXCOM
Model Number	VTC6110
Model Discrepancy	N/A
Power Supply	Brand / Model FSP / FSP120-AAB I/P: 100-240V, 50-60Hz, 2A O/P: 19V, 6.32A
Frequency Range	GSM / GPRS / EDGE: 850: 824.2 ~ 848.8 MHz GSM / GPRS / EDGE: 1900: 1850.2 ~ 1909.8 MHz WCDMA / HSDPA / HSUPA Band II: 1852.4 ~ 1907.6 MHz WCDMA / HSDPA / HSUPA Band V: 826.4 ~ 846.6MHz
Transmit Power (ERP & EIRP Power)	GSM 850: 29.23dBm GSM 1900: 27.73 dBm GPRS 850: 24.66 dBm GPRS 1900: 24.99 dBm EDGE 850: 25.81 dBm EDGE 1900: 27.74 dBm WCDMA Band II: 24.61 dBm HSDPA Band II: 23.83 dBm HSUPA Band II: 23.91 dBm WCDMA Band V: 21.75 dBm HSDPA Band V: 21.01 dBm HSUPA Band V: 21.79 dBm
Modulation Technique	GSM: GMSK GPRS: GMSK EDGE: 8PSK WCDMA: Quadrature Phase Shift Keying (QPSK) with Root-raised cosine pulse shaping filters (roll off = 0.22)



Type of Emission	GSM 850: 247KGXW--- GSM 1900: 243KGXW--- GPRS 850: 246KGXW--- GPRS 1900: 247KGXW--- EDGE 850: 248KG7W--- EDGE 1900: 247KG7W--- WCDMA Band II: 4M16F9W--- WCDMA Band V: 4M17F9W--- WCDMA HSDPA Band II: 4M17F9W--- WCDMA HSDPA Band V: 4M18F9W--- WCDMA HSUPA Band II: 4M16F9W--- WCDMA HSUPA Band V: 4M17F9W---
Antenna Gain	GSM / GPRS / EDGE 850: -0.97 dBi GSM / GPRS / EDGE 1900: 3.75 dBi WCDMA band II: 3.75 dBi WCDMA band V: -0.97 dBi
Antenna Type	Dipole Antenna

Remark:

1. *The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.*
2. *This submittal(s) (test report) is intended for FCC ID: **YHI-VTC6110X00** filing to comply with Part 22 and Part 24 of the FCC 47 CFR Rules.*



3. TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4: 2003, TIA/EIA-603-C: 2004 and FCC CFR 47, Part 2, PART 22 SUBPART H AND PART 24 SUBPART E

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4: 2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4: 2003.



3.4 DESCRIPTION OF TEST MODES

The EUT (model: VTC6110) had been tested under operating condition.

EUT staying in continuous transmitting mode was programmed.

GSM / GPRS / EDGE 850:

Channel Low (CH128), Channel Mid (CH190) and Channel High (CH251) were chosen for full testing.

GSM / GPRS / EDGE 1900:

Channel Low (CH512), Channel Mid (CH661) and Channel High (CH810) were chosen for full testing.

WCDMA Band II:

Channel Low (CH9262), Channel Mid (CH9400) and Channel High (CH9538) were chosen for full testing.

WCDMA Band V:

Channel Low (CH4132), Channel Mid (CH4182) and Channel High (CH4233) were chosen for full testing.

WCDMA / HSDPA Band II:

Channel Low (CH9262), Channel Mid (CH9400) and Channel High (CH9538) were chosen for full testing.

WCDMA / HSDPA Band V:

Channel Low (CH4132), Channel Mid (CH4182) and Channel High (CH4233) were chosen for full testing.

WCDMA / HSUPA Band II:

Channel Low (CH9262), Channel Mid (CH9400) and Channel High (CH9538) were chosen for full testing.

WCDMA / HSDPA Band V:

Channel Low (CH4132), Channel Mid (CH4182) and Channel High (CH4233) were chosen for full testing.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

Based on the above results from the different modulations, GSM850 / GSM1900 / GPRS 850 / GPRS1900 / EDGE 850 / EDGE 1900 / WCDMA Band II / WCDMA Band V / HSDPA Band II / HSDPA Band V / HSUPA Band II / HSUPA Band V were determined to be the worst-case scenario for all tests.



4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.



4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year and Loop Antenna is scheduled for calibration once three years.

Conducted Emissions Test Site				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	03/03/2011
Power Meter	Agilent	E4416A	GB41291611	06/27/2011
Power Sensor	Agilent	E9327A	US40441097	06/27/2011
Temp. / Humidity Chamber	Terchy	MHG-150LF	930619	09/15/2010
DC Power Source	Agilent	E3640A	MY40001774	01/08/2011

3M Semi Anechoic Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US42510252	10/26/2010
EMI Test Receiver	R&S	ESCI	100064	02/04/2011
Pre-Amplifier	Mini-Circuits	ZFL-1000LN	SF350700823	01/13/2011
Pre-Amplifier	MITEQ	AFS44-00102650-42-10P-44	1415367	11/20/2010
Bilog Antenna	Sunol Sciences	JB3	A030105	09/11/2010
Horn Antenna	EMCO	3117	00055165	12/07/2010
Loop Antenna	EMCO	6502	8905/2356	06/10/2013
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
Site NSA	CCS	N/A	N/A	12/31/2010
Test S/W	EZ-EMC (CCS-3A1RE)			

Powerline Conducted Emissions Test Site				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESHS30	828144/003	12/06/2010
LISN	EMCO	3825/2	9106-1809	05/02/2011
LISN	SCHAFFNER	NNB 41	03/10013	12/03/2010
Test S/W	CCS-3A1-CE			



4.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
Powerline Conducted Emission	+/- 1.6202
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0606
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9979
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5790
3M Semi Anechoic Chamber / 8G~18G	+/- 2.5928
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7212
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9520

Remark: *This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.*



5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029

No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 24891, Taiwan
Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan
Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.




Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."



5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	FCC	3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements	 FCC MRA: TW1039
Taiwan	TAF	LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12.2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method -47 CFR Part 15 Subpart B IEC / EN 61000-3-2, IEC / EN 61000-3-3, IEC / EN 61000-4-2/3/4/5/6/8/11	 Testing Laboratory 1309
Canada	Industry Canada	3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform	 IC 2324G-1 IC 2324G-2

* No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.



6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	FCC ID	Series No.	Data Cable	Power Cord
1	LCD Monitor	DELL	2407WFPb	CN-0FC255-4663 3-675-22TJS	FCC DoC	Shielded, 1.8m with 2 cores	Unshielded, 1.8m
2	USB Keyboard	Logitech	M-BB48	LZE01360732	FCC DoC	Shielded, 1.8m	N/A
3	USB Mouse	DELL	MO56UO	408031121	FCC DoC	Shielded, 1.8m	N/A
4	Modem	ACEEX	DM-1414	0405026756	IFAXDM1414	Shielded, 1.8m	Unshielded, 1.8m
5	Modem	ACEEX	DM-1414	0405026757	IFAXDM1414	Shielded, 1.8m	Unshielded, 1.8m
6	Modem	ACEEX	DM-1414	0405026747	IFAXDM1414	Shielded, 1.8m	Unshielded, 1.8m
7	320GB 2.5" HDD	Seagate	9ZA2MG-500	538224 2806	FCC DoC	Shielded, 1.8m	N/A
8	Multimedia Earphone	Ergotech	ET-E220	N/A	FCC DoC	Unshielded, 1.8m*2	N/A
9	Multimedia Earphone	Ergotech	ET-E220	N/A	FCC DoC	Unshielded, 1.8m*2	N/A
10	SIM Card	N/A	N/A	N/A	N/A	N/A	N/A
11	Universal Radio Communication Tester (Remote)	R&S	CMU200	101245	N/A	N/A	Unshielded, 1.8m
12	Notebook PC (Remote)	DELL	PP19L	GK102 A00	QDS-BRCM1021	LAN Cable: Unshielded, 10m	AC I/P: Unshielded, 1.8m DC O/P: Unshielded, 1.8m with a core
13	Wireless Pre-N Router (Remote)	BELKIN	F5D8230-4	N/A	SA3-AGN0901AP 0100	N/A	AC I/P: Unshielded, 1.8m DC O/P: Unshielded, 1.8m with a core
14	GPS Simulator (Remote)	HWAJEAT	GPS-101	EN001	N/A	N/A	N/A

Remark:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



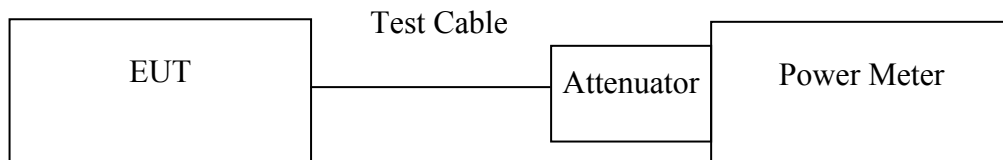
7. FCC PART 22 & 24 REQUIREMENTS

7.1 PEAK POWER

LIMIT

According to FCC §2.1046.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST PROCEDURE

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

TEST RESULTS

No non-compliance noted.



Test Data

Test Mode	CH	Frequency (MHz)	Peak Power (dBm)	Output Power W
GSM 850 (Class B)	128	824.20	32.00	1.58489
	190	836.40	31.90	1.54882
	251	848.80	31.70	1.47911
GPRS 850 (Class 12)	128	824.20	26.10	0.40738
	190	836.40	25.90	0.38905
	251	848.80	25.80	0.38019
EDGE 850 (Class 12)	128	824.20	26.00	0.39811
	190	836.40	25.90	0.38905
	251	848.80	25.80	0.38019

Test Mode	CH	Frequency (MHz)	Peak Power (dBm)	Output Power W
GSM 1900 (Class B)	512	1850.20	28.50	0.70795
	661	1880.00	28.50	0.70795
	810	1909.80	28.40	0.69183
GPRS 1900 (Class 12)	512	1850.20	22.60	0.18197
	661	1880.00	22.60	0.18197
	810	1909.80	22.40	0.17378
EDGE 1900 (Class 12)	512	1850.20	22.60	0.18197
	661	1880.00	22.60	0.18197
	810	1909.80	22.40	0.17378

Remark: The value of factor includes both the loss of cable and external attenuator



Test Mode	CH	Frequency (MHz)	Peak Power (dBm)	Output Power W
WCDMA (BAND II)	9262	1852.40	26.03	0.40087
	9400	1880.00	26.18	0.41495
	9538	1907.60	26.19	0.41591
WCDMA (BAND V)	4132	826.40	26.16	0.41305
	4182	836.40	26.94	0.49431
	4233	846.60	26.41	0.43752

Test Mode	CH	Frequency (MHz)	Peak Power (dBm)	Output Power W
WCDMA / HSDPA (BAND II)	9262	1852.40	26.49	0.44566
	9400	1880.00	26.61	0.45814
	9538	1907.60	26.44	0.44055
WCDMA / HSDPA (BAND V)	4132	826.40	26.75	0.47315
	4182	836.40	27.37	0.54576
	4233	846.60	27.12	0.51523

Test Mode	CH	Frequency (MHz)	Peak Power (dBm)	Output Power W
WCDMA / HSUPA (BAND II)	9262	1852.40	26.49	0.44566
	9400	1880.00	26.64	0.46132
	9538	1907.60	26.70	0.46774
WCDMA / HSUPA (BAND V)	4132	826.40	26.51	0.44771
	4182	836.40	27.13	0.51642
	4233	846.60	26.81	0.47973

Remark: The value of factor includes both the loss of cable and external attenuator

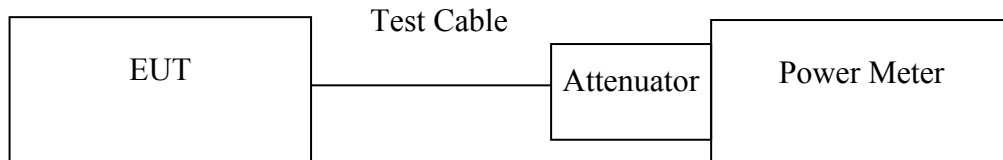


7.2 AVERAGE POWER

LIMIT

For reporting purposes only.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST PROCEDURE

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

TEST RESULTS

No non-compliance noted.



TEST RESULTS

No non-compliance noted.

Test Data

Test Mode	CH	Frequency (MHz)	AVG Power (dBm)	Output Power W
GSM 850 (Class B)	128	824.20	22.97	0.19811
	190	836.40	22.87	0.19360
	251	848.80	22.67	0.18489
GPRS 850 (Class 12)	128	824.20	23.09	0.20369
	190	836.40	22.89	0.19452
	251	848.80	22.79	0.19009
EDGE 850 (Class 12)	128	824.20	22.99	0.19905
	190	836.40	22.89	0.19452
	251	848.80	22.79	0.19009

Test Mode	CH	Frequency (MHz)	AVG Power (dBm)	Output Power W
GSM 1900 (Class B)	512	1850.20	19.47	0.08849
	661	1880.00	19.47	0.08849
	810	1909.80	19.37	0.08648
GPRS 1900 (Class 12)	512	1850.20	19.59	0.09099
	661	1880.00	19.59	0.09099
	810	1909.80	19.39	0.08689
EDGE 1900 (Class 12)	512	1850.20	19.59	0.09099
	661	1880.00	19.59	0.09099
	810	1909.80	19.39	0.08689

Remark: *The value of factor includes both the loss of cable and external attenuator*



Test Mode	CH	Frequency (MHz)	AVG Power (dBm)	Output Power W
WCDMA (BAND II)	9262	1852.40	22.71	0.18664
	9400	1880.00	22.73	0.18750
	9538	1907.60	22.83	0.19187
WCDMA (BAND V)	4132	826.40	22.69	0.18578
	4182	836.40	23.55	0.22646
	4233	846.60	22.95	0.19724

Test Mode	CH	Frequency (MHz)	AVG Power (dBm)	Output Power W
WCDMA / HSDPA (BAND II)	9262	1852.40	22.61	0.18239
	9400	1880.00	22.57	0.18072
	9538	1907.60	22.61	0.18239
WCDMA / HSDPA (BAND V)	4132	826.40	22.61	0.18239
	4182	836.40	23.30	0.21380
	4233	846.60	22.89	0.19454

Test Mode	CH	Frequency (MHz)	Peak Power (dBm)	Output Power W
WCDMA / HSUPA (BAND II)	9262	1852.40	22.57	0.18072
	9400	1880.00	22.69	0.18578
	9538	1907.60	22.91	0.19543
WCDMA / HSUPA (BAND V)	4132	826.40	22.37	0.17258
	4182	836.40	23.11	0.20464
	4233	846.60	22.61	0.18239

Remark: The value of factor includes both the loss of cable and external attenuator



7.3 ERP & EIRP MEASUREMENT

LIMIT

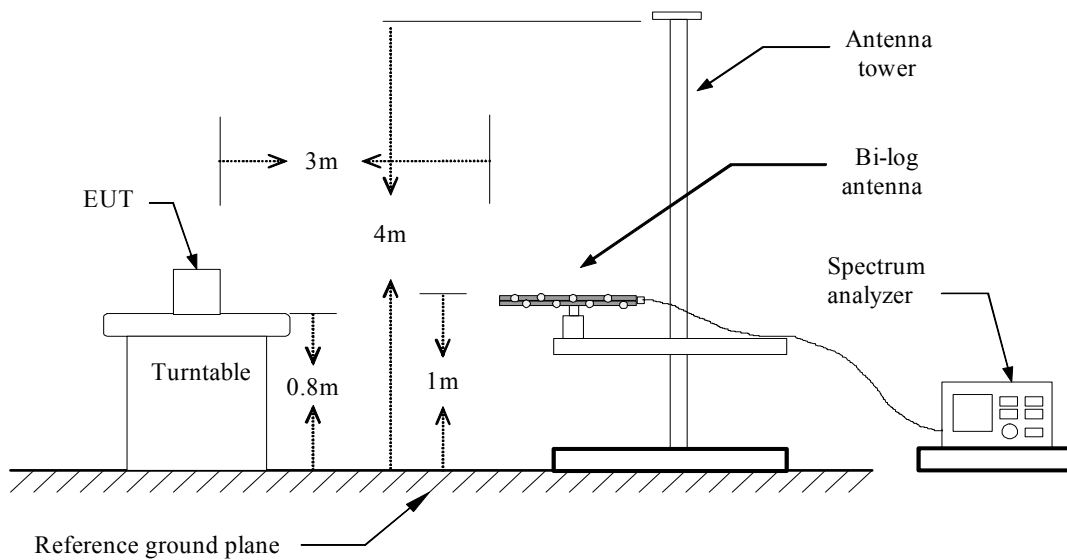
According to FCC §2.1046

FCC 22.913(a): The Effective Radiated Power (ERP) of mobile transmitters must not exceed 7 Watts.

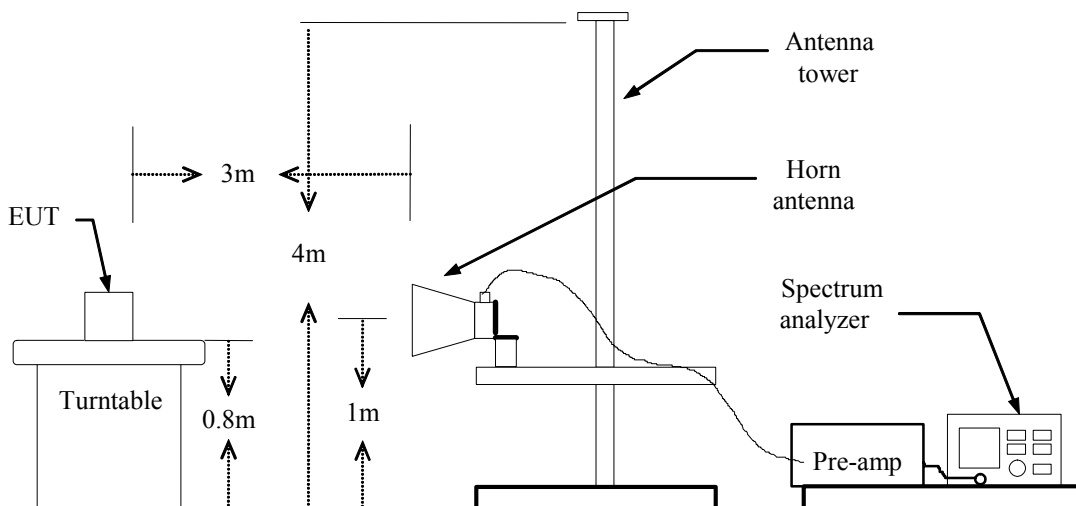
FCC 24.232(b): The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

Test Configuration

Below 1 GHz

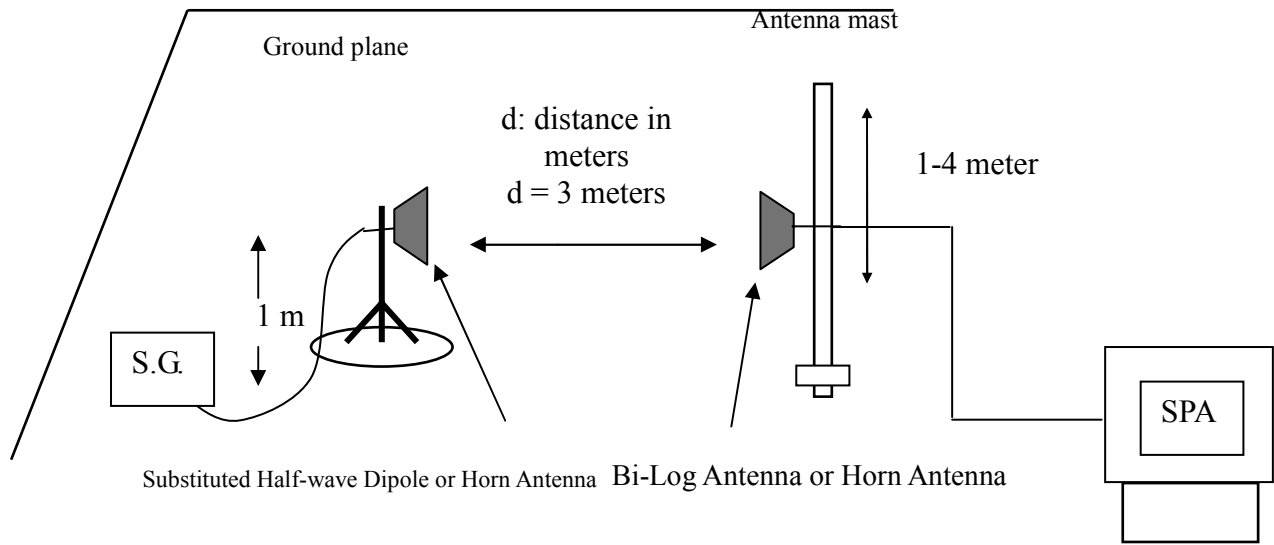


Above 1 GHz





For Substituted Method Test Set-UP



TEST PROCEDURE

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement of the EUT, the resolution bandwidth was set to 3MHz and the average bandwidth was set to 3MHz. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824-849MHz, and EIRP in frequency band 1851.25 –1910MHz were measured using a substitution method. The EUT was replaced by half-wave dipole (824-849MHz) or horn antenna (1851.25-1910MHz) connected to a signal generator. The spectrum analyzer reading was recorded and ERP/EIRP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)}$$

TEST RESULTS

No non-compliance noted.



GSM 850 TEST DATA (CLASS B)

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.20	V	-8.19	34.62	26.43	38.45	-12.02
	824.20	H	-6.22	34.65	28.43	38.45	-10.02
190	836.40	V	-6.59	34.52	27.93	38.45	-10.52
	836.40	H	-5.40	34.63	*29.23	38.45	-9.22
251	848.80	V	-8.07	34.64	26.56	38.45	-11.89
	848.80	H	-7.09	34.75	27.66	38.45	-10.79

GPRS 850 TEST DATA (CLASS 12)

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.20	V	-10.70	34.62	23.92	38.45	-14.53
	824.20	H	-10.70	34.65	23.95	38.45	-14.5
190	836.40	V	-10.57	34.53	23.95	38.45	-14.5
	836.40	H	-10.39	34.63	24.24	38.45	-14.21
251	848.80	V	-10.89	34.64	23.74	38.45	-14.71
	848.80	H	-10.08	34.75	*24.66	38.45	-13.79

GSM 1900 TEST DATA (CLASS B)

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.20	V	-14.80	41.17	26.37	33.00	-6.63
	1850.20	H	-17.37	40.79	23.42	33.00	-9.58
661	1880.00	V	-14.53	41.23	26.70	33.00	-6.30
	1880.00	H	-17.40	41.14	23.74	33.00	-9.26
810	1909.80	V	-13.58	41.30	*27.73	33.00	-5.27
	1909.80	H	-16.29	41.38	25.08	33.00	-7.92

GPRS 1900 TEST DATA (CLASS 12)

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.20	V	-17.61	41.17	23.57	33.00	-9.43
	1850.20	H	-19.45	40.79	21.34	33.00	-11.66
661	1880.00	V	-17.41	41.23	23.82	33.00	-9.18
	1880.00	H	-18.60	41.14	22.55	33.00	-10.45
810	1909.80	V	-16.31	41.30	*24.99	33.00	-8.01
	1909.80	H	-16.93	41.38	24.44	33.00	-8.56



EDGE 850 Test Data (Class 12)

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.27	V	-9.31	34.62	25.31	38.45	-13.14
	824.27	H	-9.35	34.65	25.30	38.45	-13.15
190	836.64	V	-9.51	34.52	25.02	38.45	-13.43
	836.64	H	-9.27	34.63	25.36	38.45	-13.09
251	848.79	V	-9.66	34.64	24.98	38.45	-13.47
	848.79	H	-8.95	34.75	*25.81	38.45	-12.64

EDGE 1900 Test Data (Class 12)

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.16	V	-14.81	41.17	26.36	33.00	-6.64
	1849.98	H	-17.02	40.79	23.77	33.00	-9.23
661	1879.86	V	-14.89	41.23	26.33	33.00	-6.67
	1879.86	H	-15.77	41.15	25.37	33.00	-7.63
810	1910.01	V	-13.56	41.30	*27.74	33.00	-5.26
	1910.01	H	-14.46	41.38	26.92	33.00	-6.08

WCDMA Test Data (BAND II)

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
9262	1853.52	V	-17.23	41.18	23.94	33.00	-9.06
	1853.36	H	-20.58	40.83	20.25	33.00	-12.75
9400	1880.88	V	-16.63	41.23	*24.61	33.00	-8.39
	1881.12	H	-19.89	41.15	21.27	33.00	-11.73
9538	1908.32	V	-17.05	41.30	24.25	33.00	-8.75
	1908.40	H	-20.02	41.38	21.36	33.00	-11.64

WCDMA Test Data (BAND V)

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4132	826.91	V	-13.13	34.60	21.47	38.45	-16.98
	826.91	H	-14.31	34.64	20.33	38.45	-18.12
4182	837.49	V	-12.90	34.52	21.62	38.45	-16.83
	837.49	H	-12.88	34.63	*21.75	38.45	-16.70
4233	845.59	V	-13.69	34.60	20.91	38.45	-17.54
	846.05	H	-13.69	34.60	20.91	38.45	-17.54



WCDMA / HSDPA BAND II Test Data

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
9262	1851.20	V	-18.04	41.18	23.13	33.00	-9.87
	1851.36	H	-20.15	40.83	20.68	33.00	-12.32
9400	1878.96	V	-17.57	41.23	23.66	33.00	-9.34
	1878.96	H	-20.24	41.16	20.93	33.00	-12.07
9538	1906.64	V	-17.47	41.30	*23.83	33.00	-9.17
	1906.56	H	-20.46	41.38	20.91	33.00	-12.09

WCDMA / HSDPA BAND V Test Data

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4132	827.33	V	-14.18	34.60	20.42	38.45	-18.03
	827.42	H	-14.15	34.64	20.49	38.45	-17.96
4182	837.50	V	-14.06	34.52	20.46	38.45	-17.99
	837.50	H	-13.62	34.63	*21.01	38.45	-17.44
4233	847.89	V	-14.35	34.59	20.24	38.45	-18.21
	845.82	H	-14.91	34.70	19.79	38.45	-18.66

WCDMA / HSUPA BAND II Test Data

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
9262	1853.31	V	-18.14	41.17	23.04	33.00	-9.96
	1851.24	H	-20.53	40.83	20.31	33.00	-12.69
9400	1880.22	V	-17.32	41.23	*23.91	33.00	-9.09
	1881.21	H	-20.30	41.16	20.86	33.00	-12.14
9538	1908.03	V	-17.48	41.30	23.82	33.00	-9.18
	1907.85	H	-20.75	41.38	20.62	33.00	-12.38

WCDMA / HSUPA BAND V Test Data

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4132	825.35	V	-13.52	34.59	21.08	38.45	-17.37
	826.16	H	-13.81	34.64	20.83	38.45	-17.62
4182	835.61	V	-13.49	34.52	21.03	38.45	-17.42
	837.72	H	-12.85	34.63	*21.79	38.45	-16.66
4233	845.73	V	-14.41	34.62	20.21	38.45	-18.24
	845.69	H	-14.45	34.72	20.28	38.45	-18.17

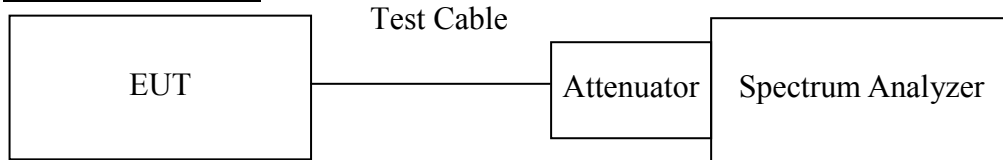


7.4 OCCUPIED BANDWIDTH MEASUREMENT

LIMIT

According to §FCC 2.1049.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST PROCEDURE

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW is set to 3 times the RBW, -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST RESULTS

No non-compliance noted



Test Data

Test Mode	CH	Frequency (MHz)	99% Bandwidth (kHz)
GSM 850 (Class B)	128	824.190	247.8367
	190	836.580	243.8112
	251	848.780	243.9323
GPRS 850 (Class 12)	128	824.190	246.1135
	190	836.580	246.5325
	251	848.780	244.7103
EDGE 850 (Class 12)	128	824.190	240.7853
	190	836.580	248.5793
	251	848.780	241.3589

Test Mode	CH	Frequency (MHz)	99% Bandwidth (kHz)
GSM 1900 (Class B)	512	1850.200	242.9698
	661	1880.000	239.7227
	810	1909.790	243.7852
GPRS 1900 (Class 12)	512	1850.200	244.5651
	661	1880.000	247.2381
	810	1909.790	246.7434
EDGE 1900 (Class 12)	512	1850.200	241.8027
	661	1880.000	236.8053
	810	1909.790	247.4988



Test Mode	CH	Frequency (MHz)	99% Bandwidth (MHz)
WCDMA (Band II)	9262	1852.40	4.1669
	9400	1880.00	4.1694
	9538	1907.60	4.1592
WCDMA (Band V)	4132	826.40	4.1684
	4182	836.40	4.1782
	4233	846.60	4.1794
WCDMA / HSDPA (BAND II)	9262	1852.40	4.1673
	9400	1880.00	4.1749
	9538	1907.60	4.1694
WCDMA / HSDPA (BAND V)	4132	826.40	4.1624
	4182	836.40	4.1838
	4233	846.60	4.1861
WCDMA / HSUPA (BAND II)	9262	1852.40	4.1666
	9400	1880.00	4.1699
	9538	1907.60	4.1667
WCDMA / HSUPA (BAND V)	4132	826.40	4.1713
	4182	836.40	4.1749
	4233	846.60	4.1695

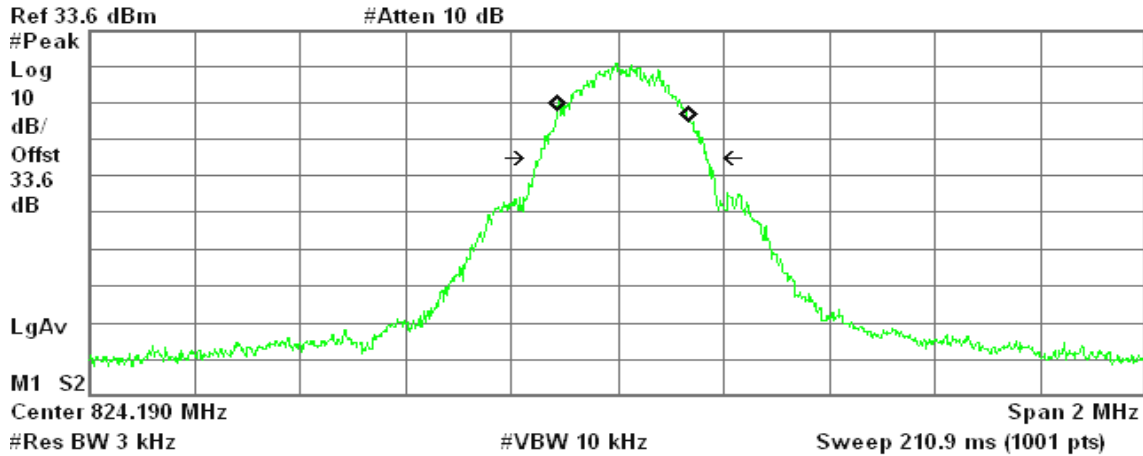


Test Plot

GSM 850 (CH Low)

Agilent 20:11:23 Jun 3, 2010

R T



Occupied Bandwidth
247.8367 kHz

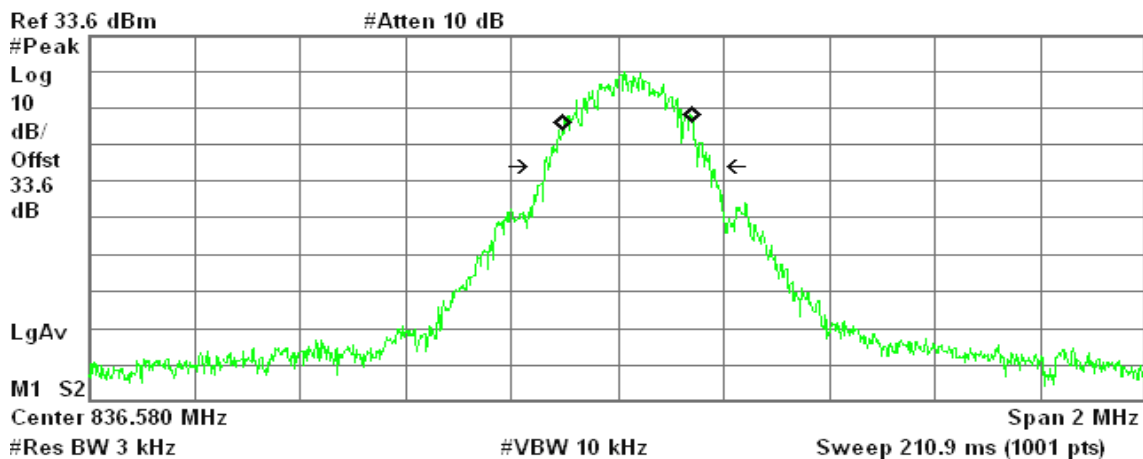
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 11.080 kHz
x dB Bandwidth 311.893 kHz

GSM 850 (CH Mid)

Agilent 20:11:49 Jun 3, 2010

R T



Occupied Bandwidth
243.8112 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

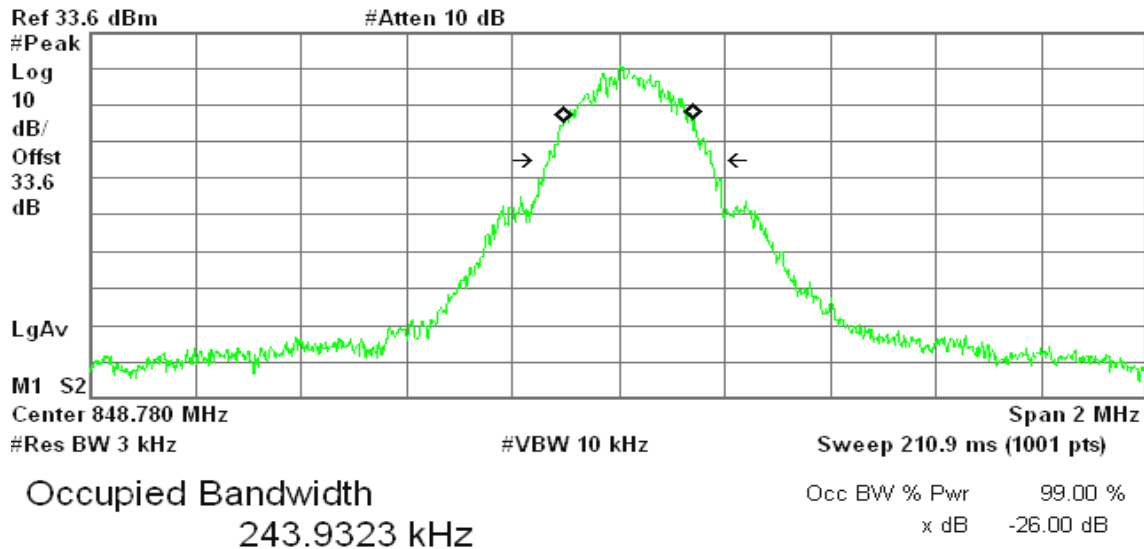
Transmit Freq Error 18.899 kHz
x dB Bandwidth 311.163 kHz



GSM 850 (CH High)

Agilent 20:12:23 Jun 3, 2010

R T

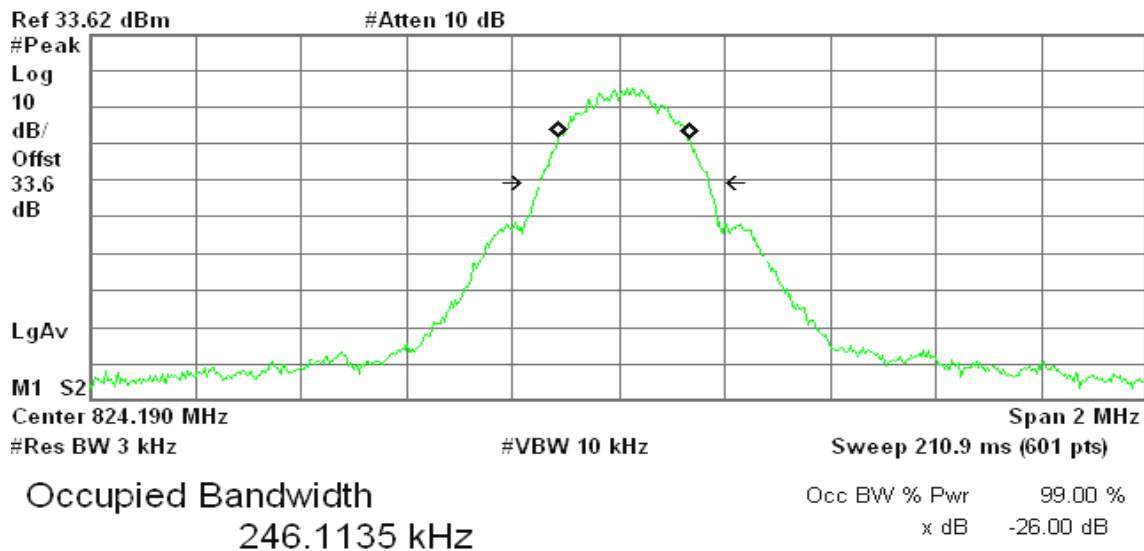


Transmit Freq Error 19.027 kHz
x dB Bandwidth 304.297 kHz

GPRS 850 (CH Low)

Agilent 00:13:37 Jun 3, 2010

R T



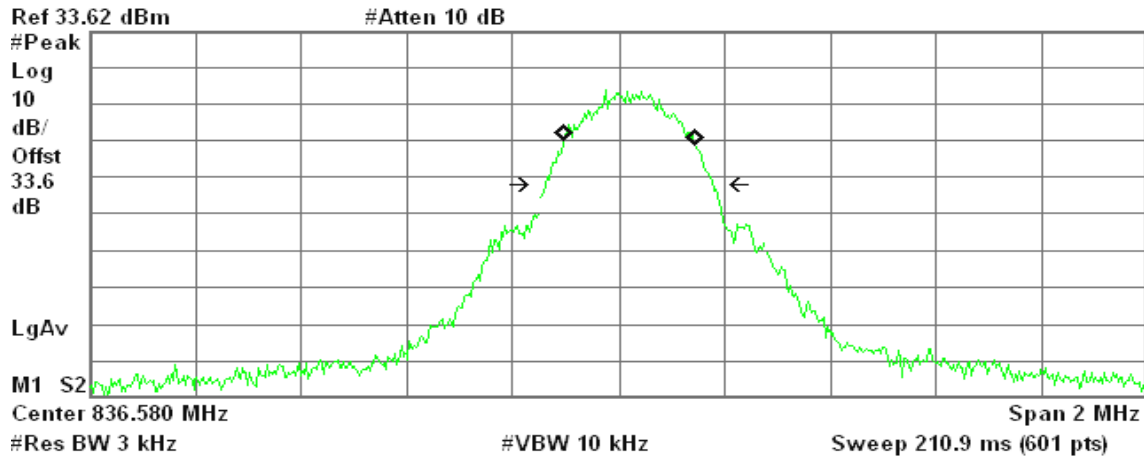
Transmit Freq Error 10.741 kHz
x dB Bandwidth 319.024 kHz



GPRS 850 (CH Mid)

Agilent 00:15:20 Jun 3, 2010

R T



Occupied Bandwidth
246.5325 kHz

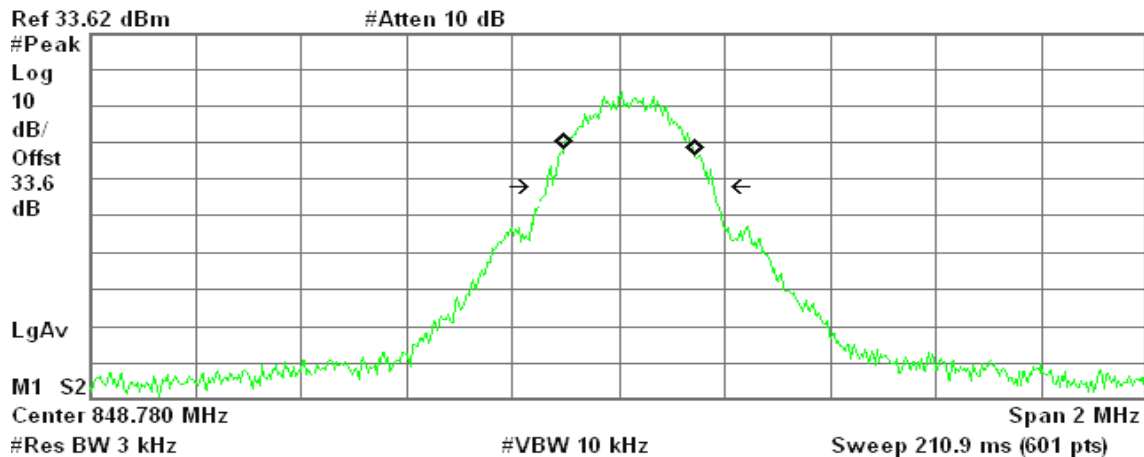
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 20.759 kHz
x dB Bandwidth 314.314 kHz

GPRS 850(CH High)

Agilent 00:15:35 Jun 3, 2010

R T



Occupied Bandwidth
244.7103 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

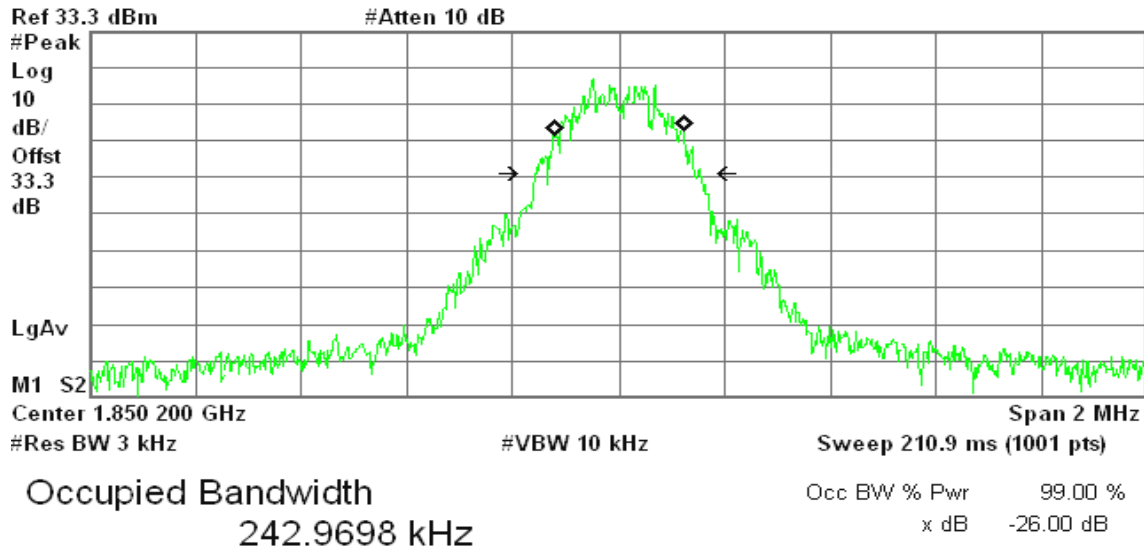
Transmit Freq Error 20.332 kHz
x dB Bandwidth 314.630 kHz



GSM 1900 (CH Low)

Agilent 20:39:19 Jun 3, 2010

R T

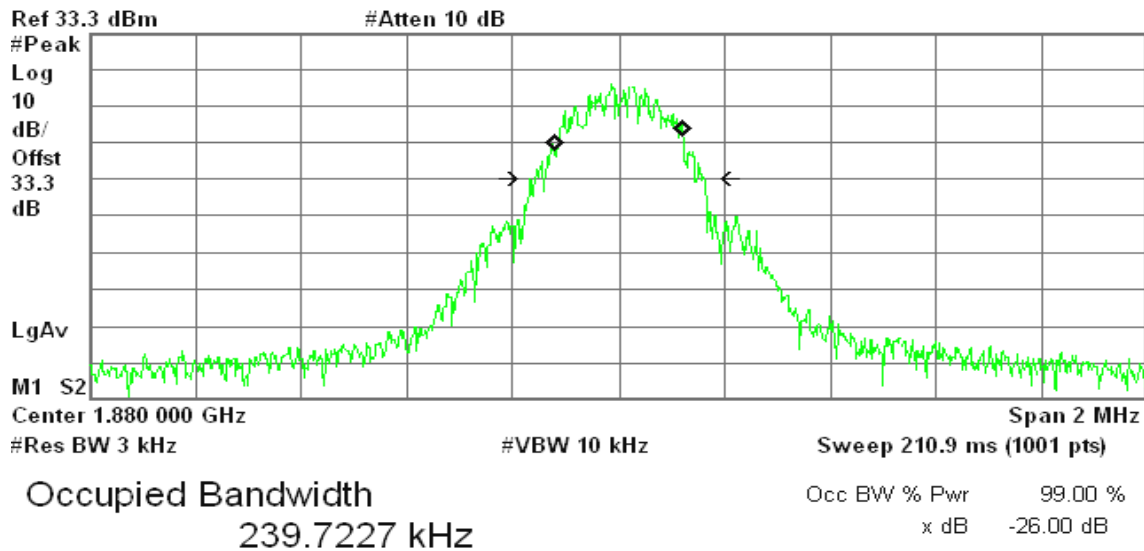


Transmit Freq Error 651.892 Hz
x dB Bandwidth 308.483 kHz

GSM 1900 (CH Mid)

Agilent 20:39:38 Jun 3, 2010

R T



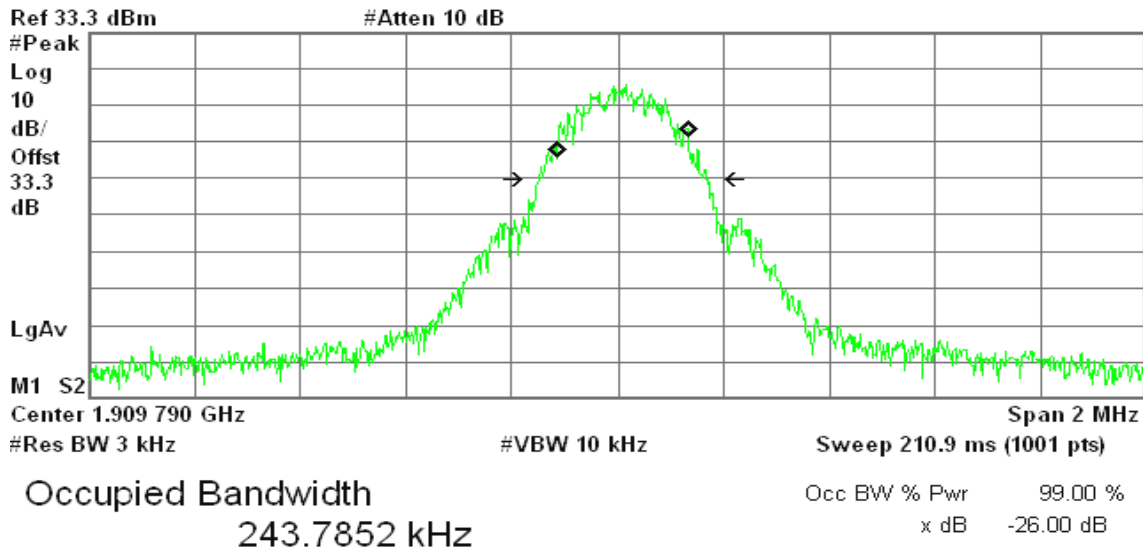
Transmit Freq Error 1.126 kHz
x dB Bandwidth 316.610 kHz



GSM 1900 (CH High)

Agilent 20:39:59 Jun 3, 2010

R T

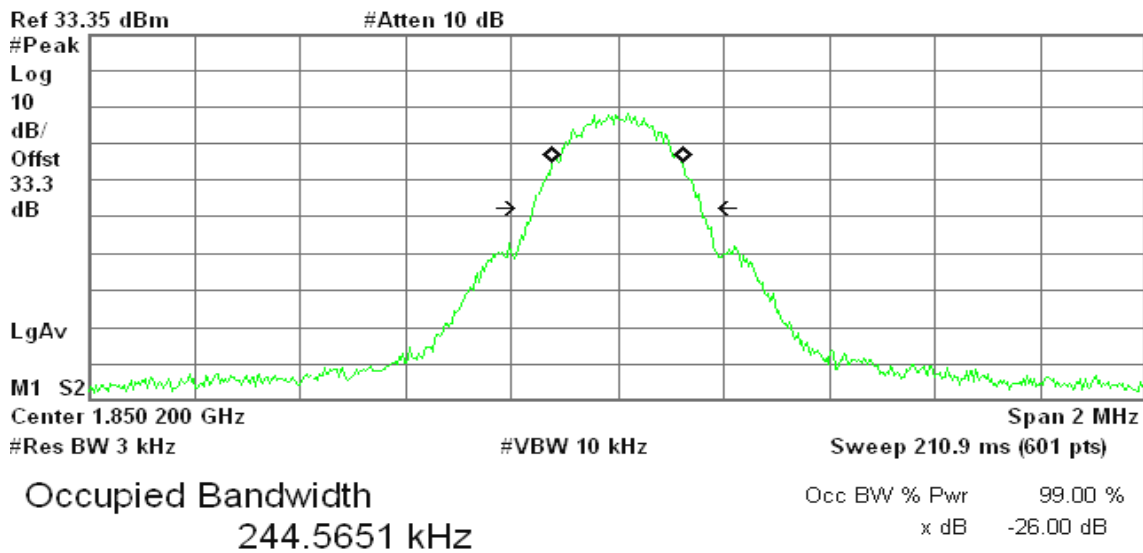


Transmit Freq Error 9.372 kHz
x dB Bandwidth 315.273 kHz

GPRS 1900 (CH Low)

Agilent 00:25:22 Jun 3, 2010

R T



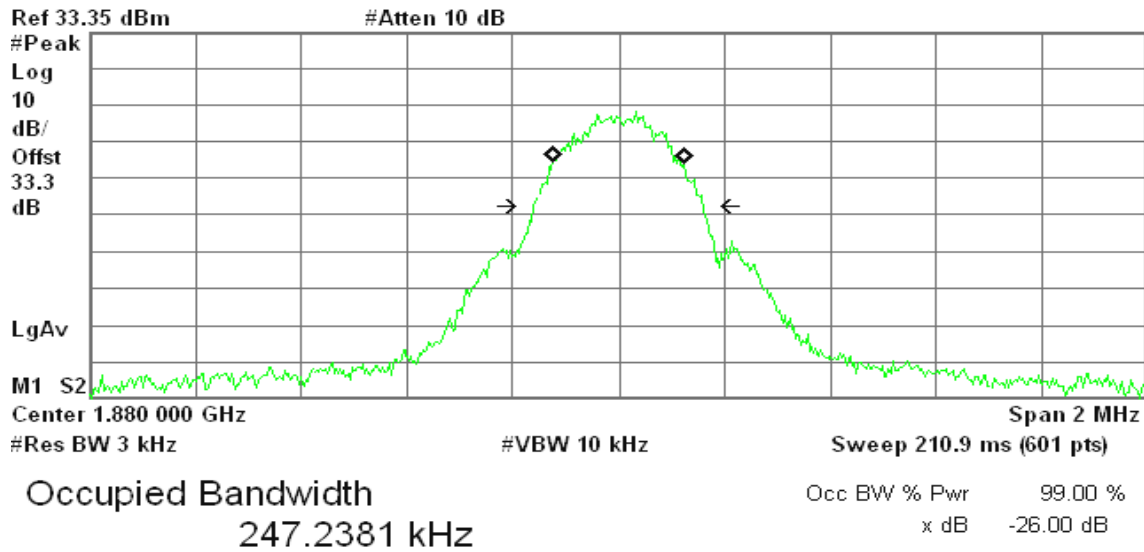
Transmit Freq Error 445.060 Hz
x dB Bandwidth 315.861 kHz



GPRS 1900 (CH Mid)

Agilent 00:26:01 Jun 3, 2010

R T

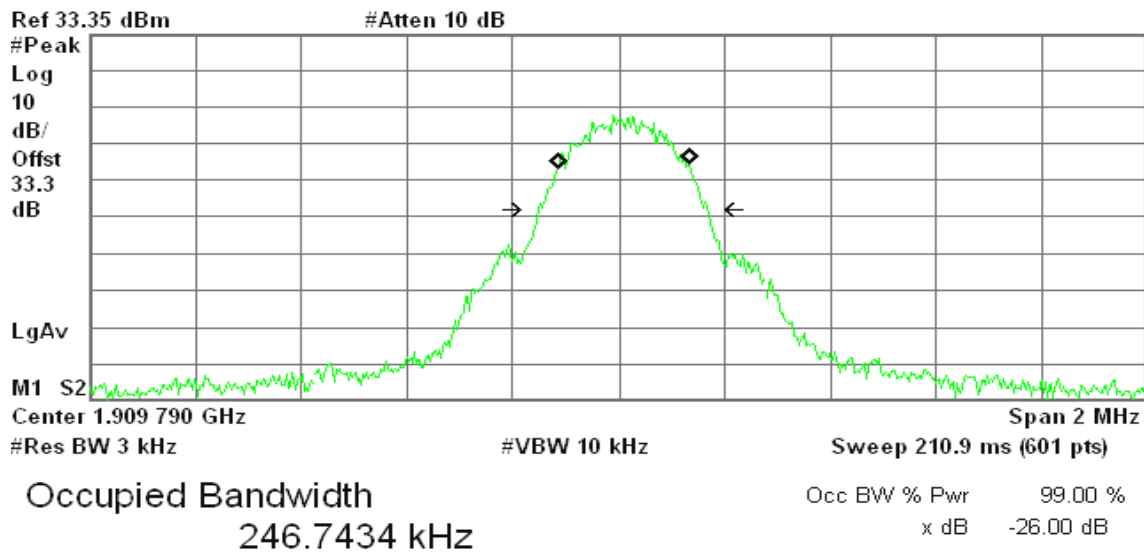


Transmit Freq Error -702.741 Hz
x dB Bandwidth 319.579 kHz

GPRS 1900 (CH High)

Agilent 00:26:18 Jun 3, 2010

R T



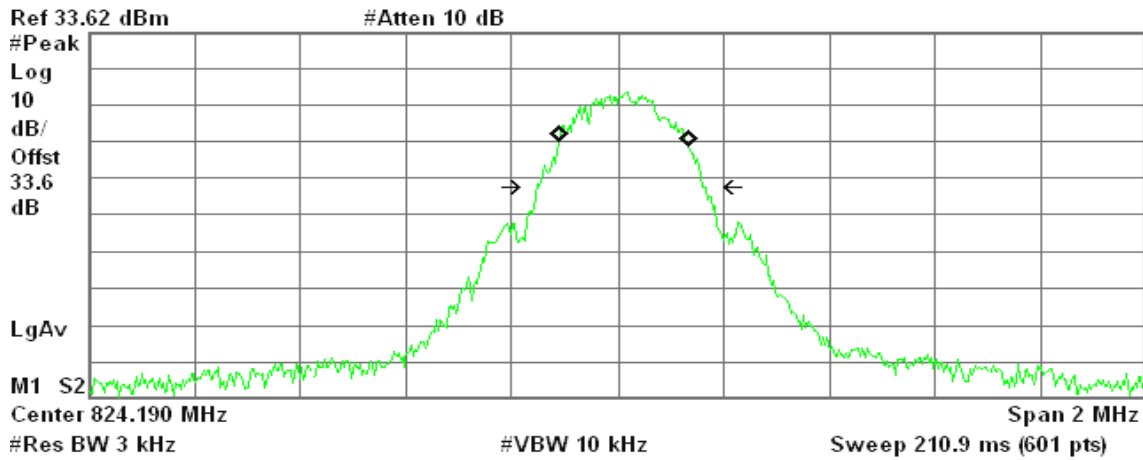
Transmit Freq Error 10.198 kHz
x dB Bandwidth 319.130 kHz



EDGE 850 (CH Low)

Agilent 00:14:21 Jun 3, 2010

R T



Occupied Bandwidth
240.7853 kHz

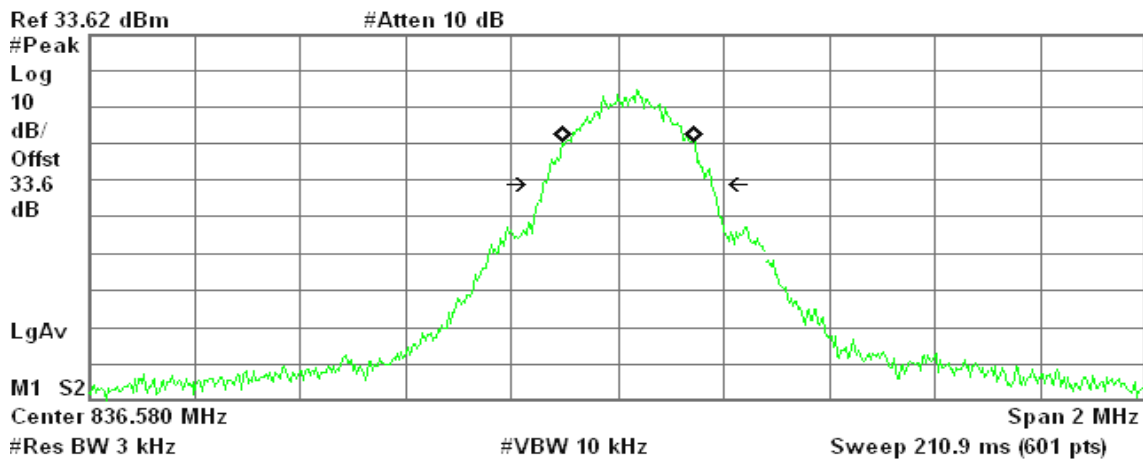
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 11.720 kHz
x dB Bandwidth 317.306 kHz

EDGE 850 (CH Mid)

Agilent 00:14:42 Jun 3, 2010

R T



Occupied Bandwidth
248.5793 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

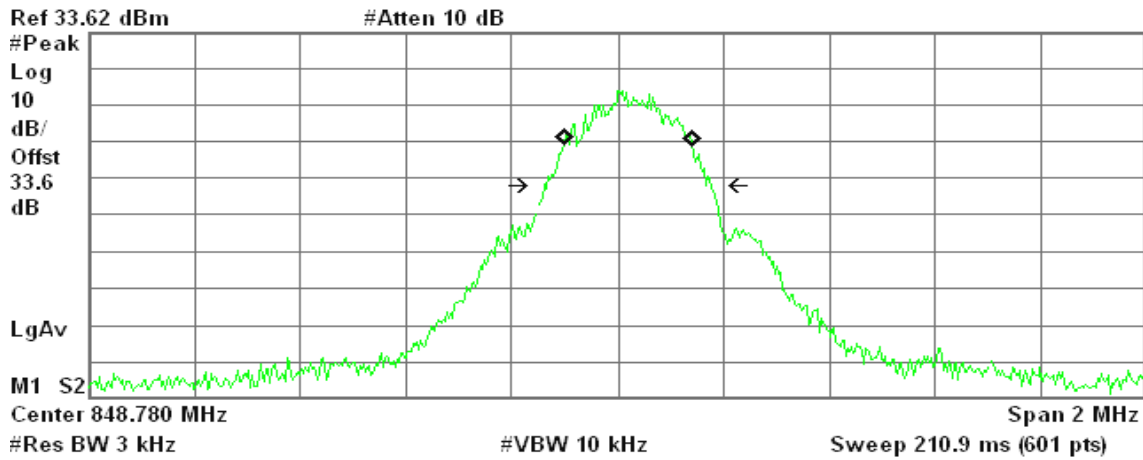
Transmit Freq Error 20.324 kHz
x dB Bandwidth 317.695 kHz



EDGE 850 (CH High)

Agilent 00:16:04 Jun 3, 2010

R T



Occupied Bandwidth
241.3589 kHz

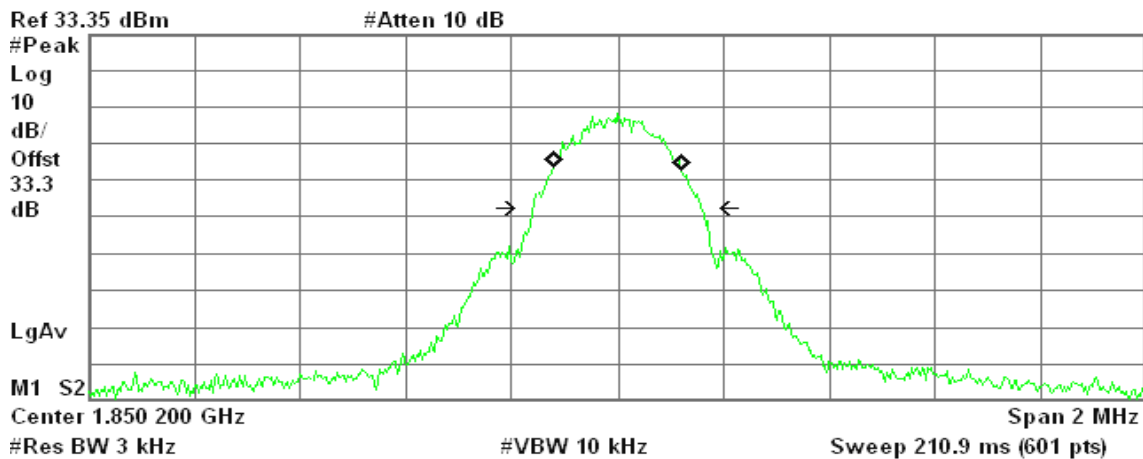
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 20.460 kHz
x dB Bandwidth 313.598 kHz

EDGE 1900 (CH Low)

Agilent 00:25:39 Jun 3, 2010

R T



Occupied Bandwidth
241.8027 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

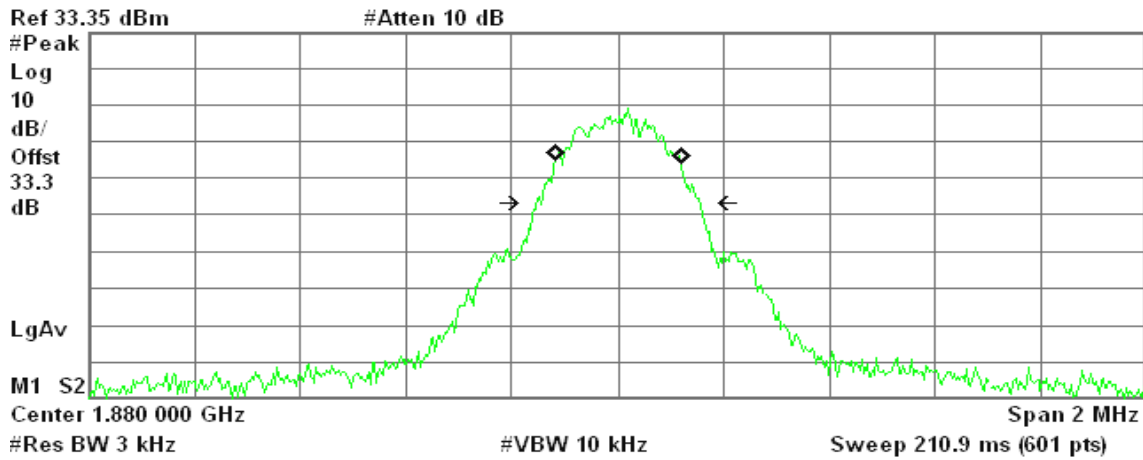
Transmit Freq Error 113.023 Hz
x dB Bandwidth 317.319 kHz



EDGE 1900 (CH Mid)

Agilent 00:25:50 Jun 3, 2010

R T



Occupied Bandwidth
236.8053 kHz

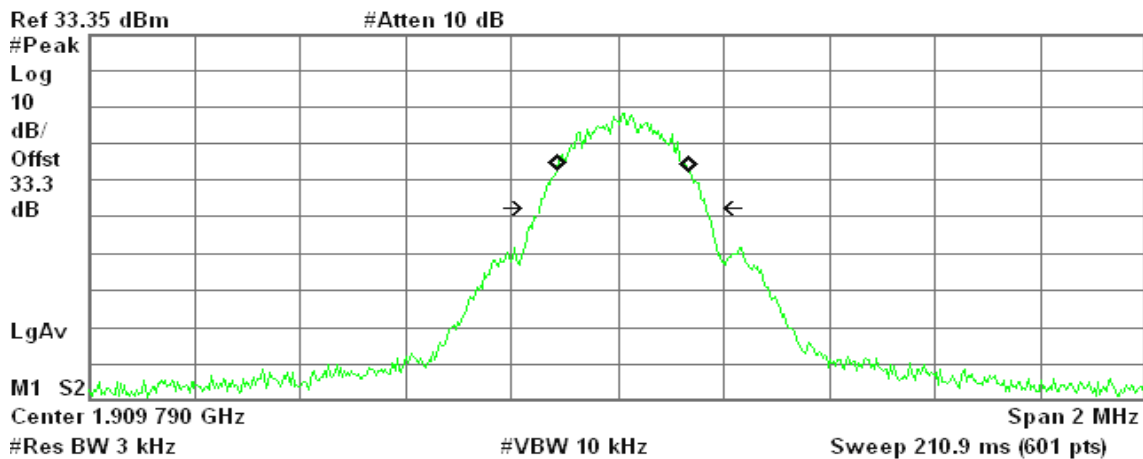
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 644.580 Hz
x dB Bandwidth 308.044 kHz

EDGE 1900 (CH High)

Agilent 00:26:31 Jun 3, 2010

R T



Occupied Bandwidth
247.4988 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

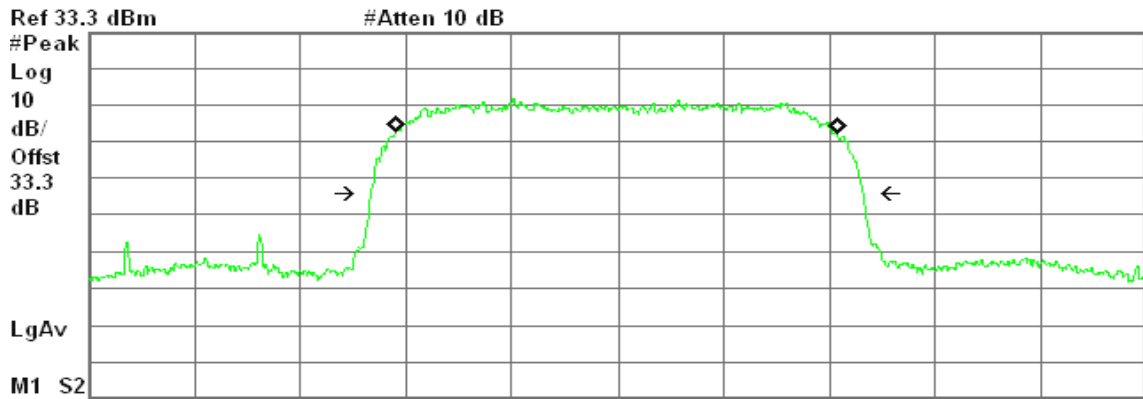
Transmit Freq Error 10.295 kHz
x dB Bandwidth 311.990 kHz



WCDMA Band II (CH Low)

Agilent 20:45:27 Jun 3, 2010

R T



Center 1.852 40 GHz #Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts) Span 10 MHz

Occupied Bandwidth
4.1669 MHz

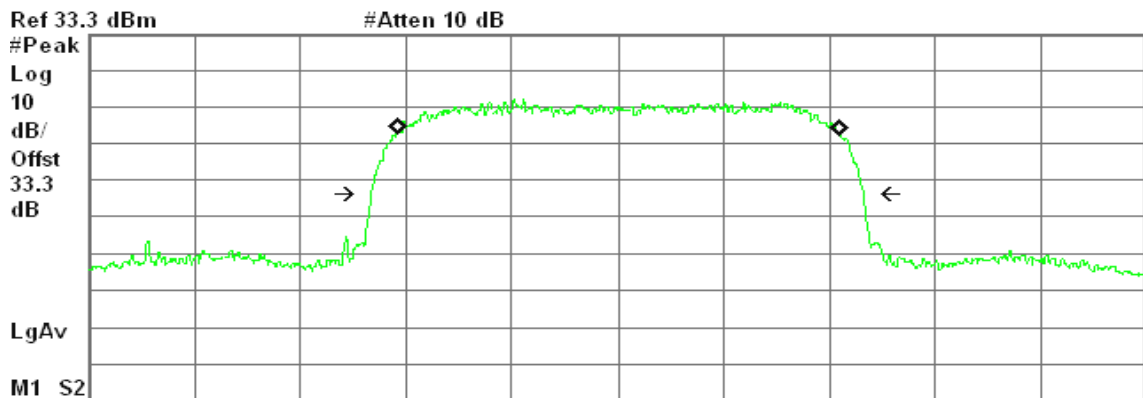
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -11.989 kHz
x dB Bandwidth 4.643 MHz

WCDMA Band II (CH Mid)

Agilent 20:46:37 Jun 3, 2010

R T



Center 1.880 00 GHz #Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts) Span 10 MHz

Occupied Bandwidth
4.1694 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

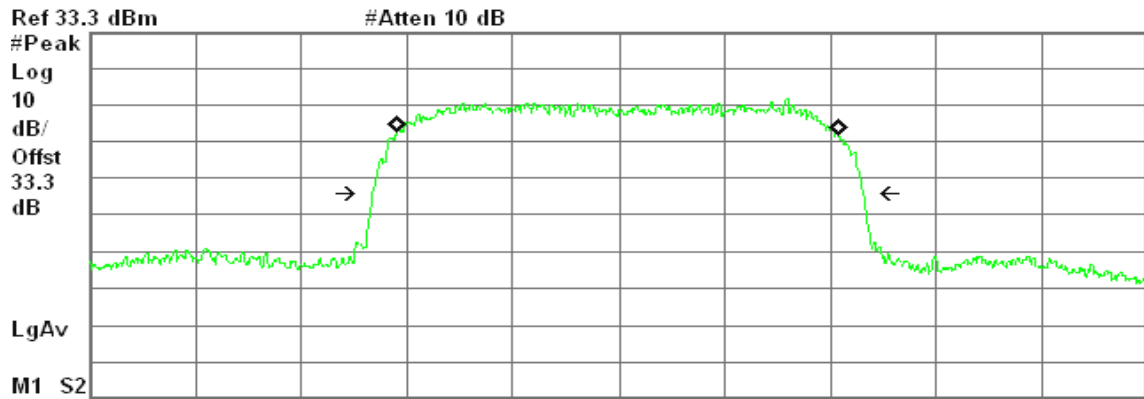
Transmit Freq Error 3.025 kHz
x dB Bandwidth 4.643 MHz



WCDMA Band II (CH High)

Agilent 20:47:17 Jun 3, 2010

R T



Center 1.907 60 GHz Span 10 MHz
#Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts)

Occupied Bandwidth
4.1592 MHz

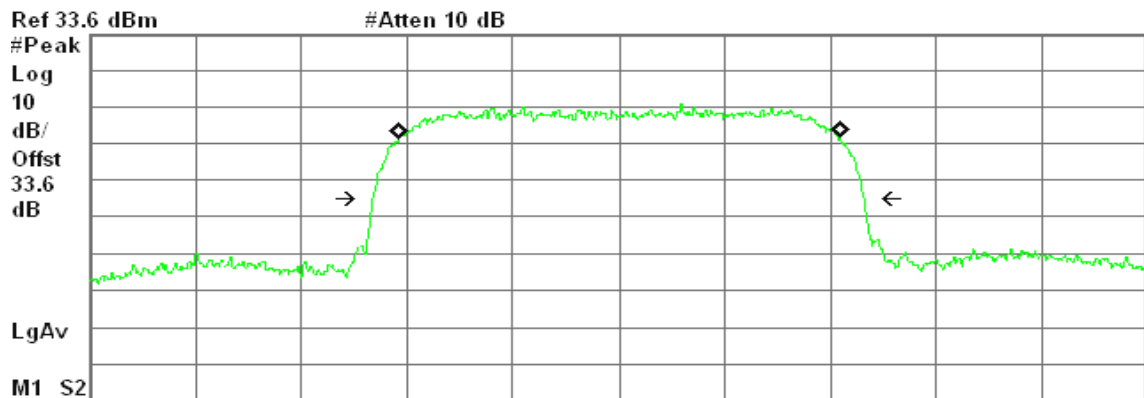
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -6.902 kHz
x dB Bandwidth 4.633 MHz

WCDMA Band V (CH Low)

Agilent 21:14:41 Jun 3, 2010

R T



Center 826.40 MHz Span 10 MHz
#Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts)

Occupied Bandwidth
4.1684 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

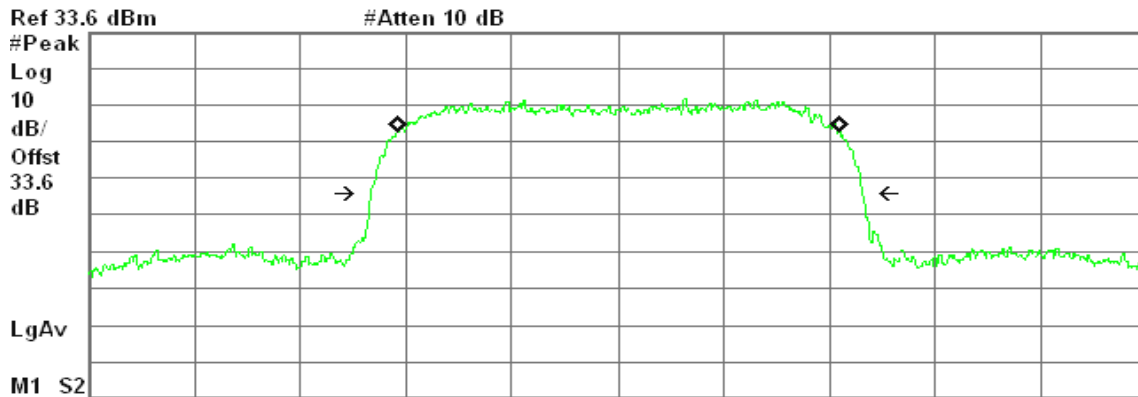
Transmit Freq Error 5.910 kHz
x dB Bandwidth 4.635 MHz



WCDMA Band V (CH Mid)

Agilent 21:15:53 Jun 3, 2010

R T



Center 836.60 MHz Span 10 MHz
 #Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts)

Occupied Bandwidth
 4.1782 MHz

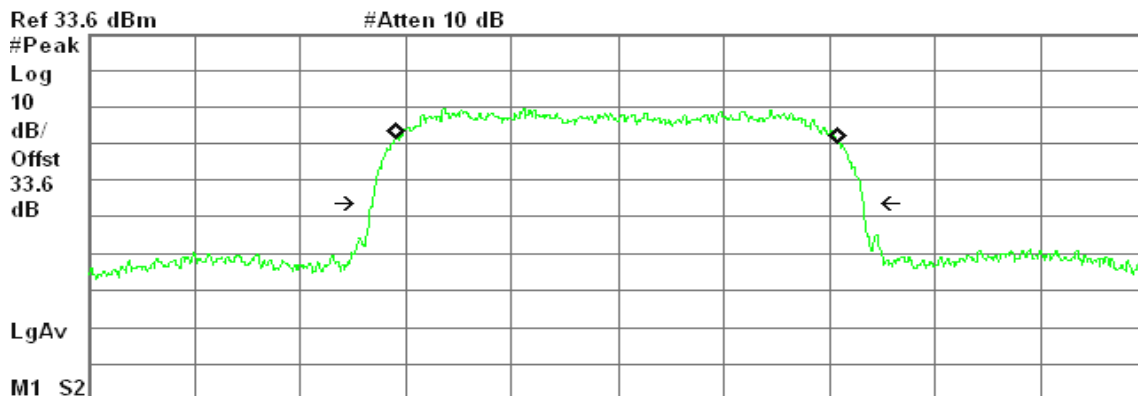
Occ BW % Pwr 99.00 %
 x dB -26.00 dB

Transmit Freq Error 4.335 kHz
 x dB Bandwidth 4.631 MHz

WCDMA Band V (CH High)

Agilent 21:16:18 Jun 3, 2010

R T



Center 846.60 MHz Span 10 MHz
 #Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts)

Occupied Bandwidth
 4.1794 MHz

Occ BW % Pwr 99.00 %
 x dB -26.00 dB

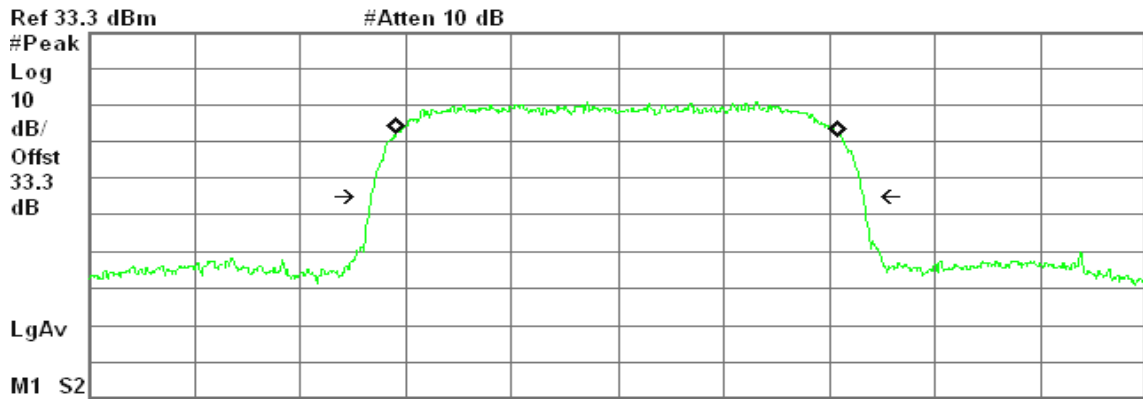
Transmit Freq Error -10.298 kHz
 x dB Bandwidth 4.635 MHz



WCDMA / HSDPA Band II (CH Low)

Agilent 20:45:51 Jun 3, 2010

R T



Center 1.852 40 GHz Span 10 MHz
#Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts)

Occupied Bandwidth
4.1673 MHz

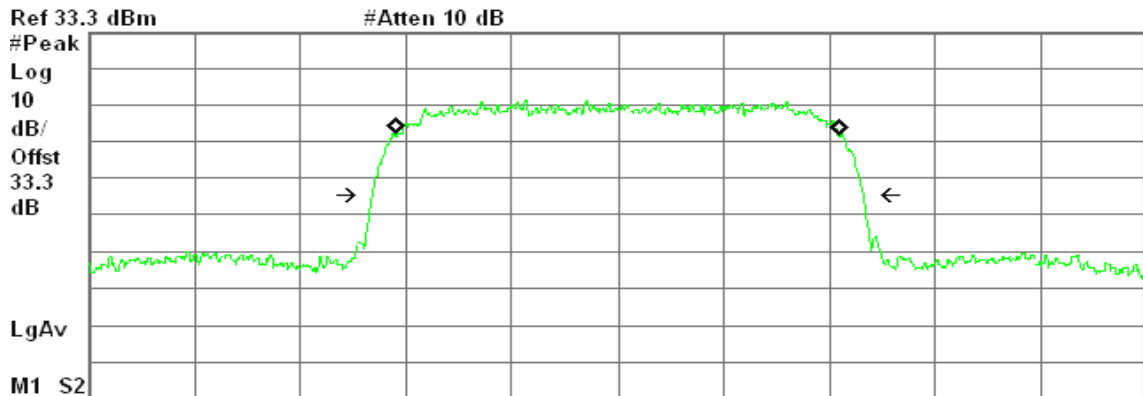
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -3.383 kHz
x dB Bandwidth 4.646 MHz

WCDMA / HSDPA Band II (CH Mid)

Agilent 20:46:10 Jun 3, 2010

R T



Center 1.880 00 GHz Span 10 MHz
#Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts)

Occupied Bandwidth
4.1749 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

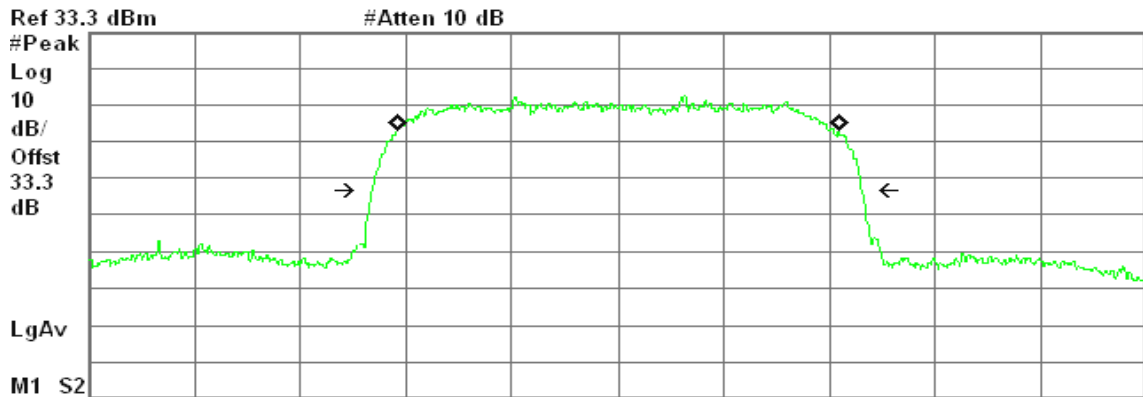
Transmit Freq Error 847.638 Hz
x dB Bandwidth 4.635 MHz



WCDMA / HSDPA Band II (CH High)

Agilent 20:47:43 Jun 3, 2010

R T



Center 1.907 60 GHz #Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts) Span 10 MHz

Occupied Bandwidth
4.1694 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 2.694 kHz
x dB Bandwidth 4.626 MHz

WCDMA / HSDPA Band V (CH Low)

Agilent 21:15:04 Jun 3, 2010

R T



Center 826.40 MHz #Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts) Span 10 MHz

Occupied Bandwidth
4.1624 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

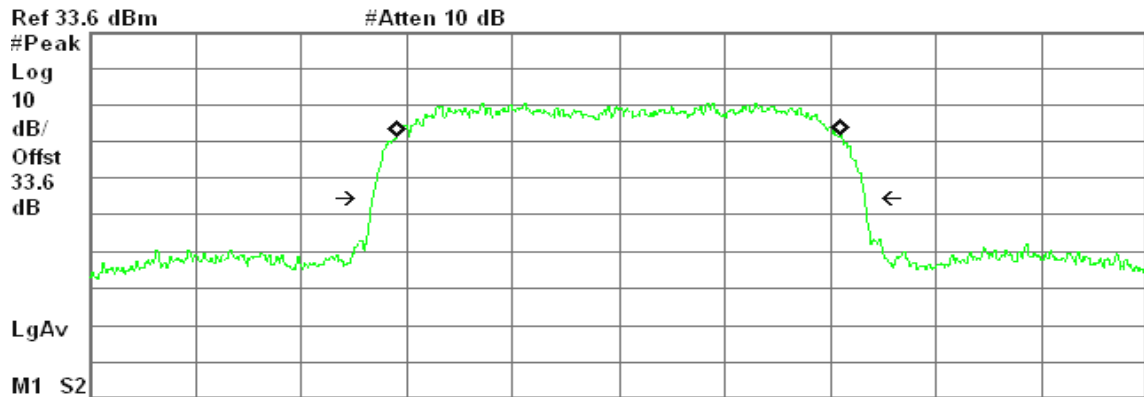
Transmit Freq Error 8.347 kHz
x dB Bandwidth 4.633 MHz



WCDMA / HSDPA Band V (CH Mid)

Agilent 21:15:23 Jun 3, 2010

R T



Center 836.60 MHz #Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts) Span 10 MHz

Occupied Bandwidth
4.1838 MHz

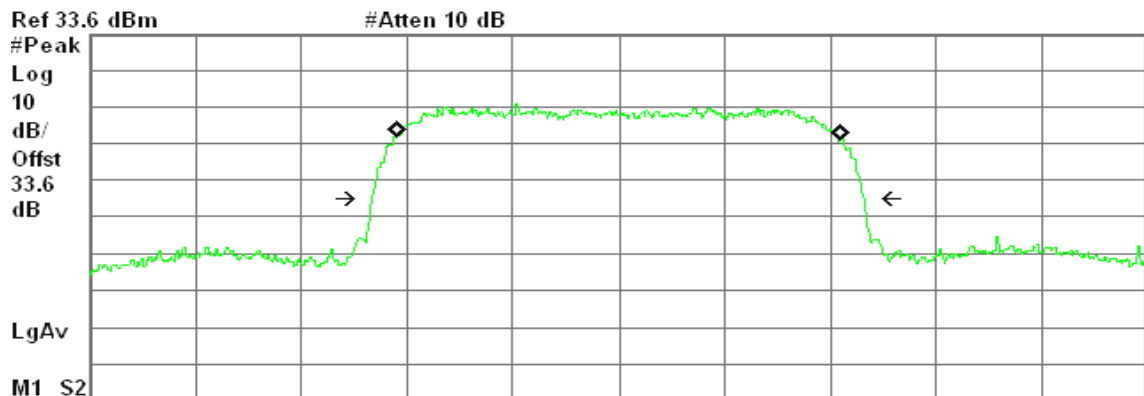
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -4.659 kHz
x dB Bandwidth 4.639 MHz

WCDMA / HSDPA Band V (CH High)

Agilent 21:16:44 Jun 3, 2010

R T



Center 846.60 MHz #Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts) Span 10 MHz

Occupied Bandwidth
4.1861 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

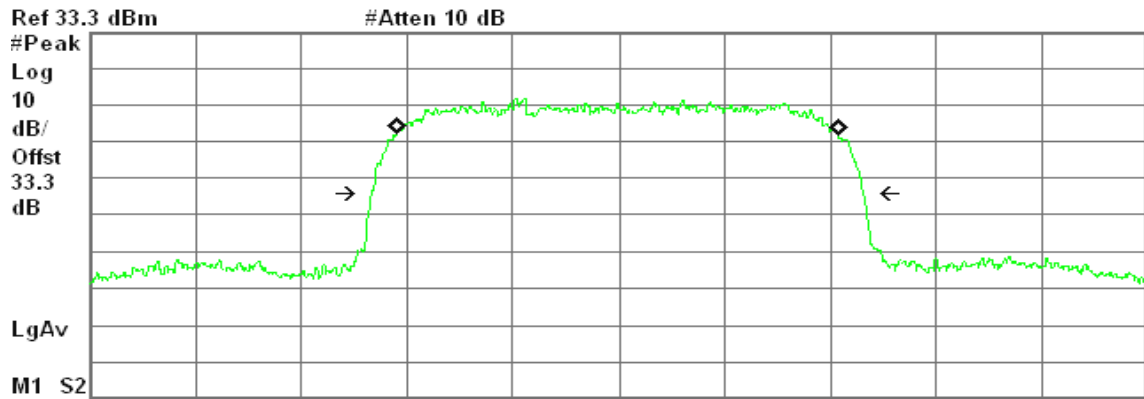
Transmit Freq Error -5.388 kHz
x dB Bandwidth 4.641 MHz



WCDMA / HSUPA Band II (CH Low)

Agilent 20:45:40 Jun 3, 2010

R T



Occupied Bandwidth
4.1666 MHz

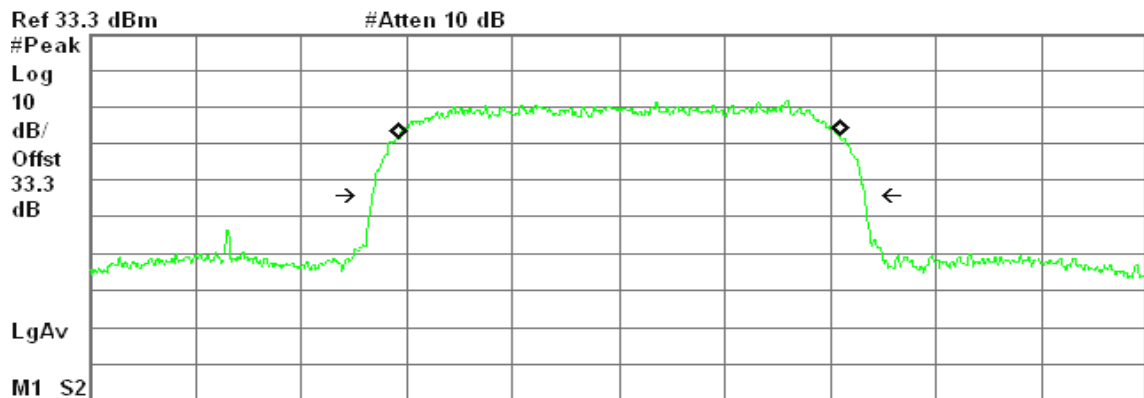
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -9.227 kHz
x dB Bandwidth 4.643 MHz

WCDMA / HSUPA Band II (CH Mid)

Agilent 20:46:21 Jun 3, 2010

R T



Occupied Bandwidth
4.1699 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

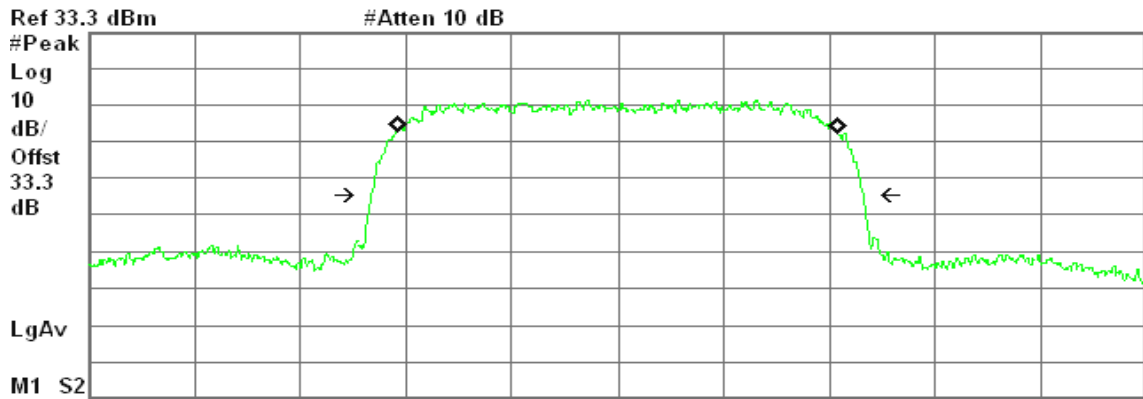
Transmit Freq Error 6.141 kHz
x dB Bandwidth 4.639 MHz



WCDMA / HSUPA Band II (CH High)

Agilent 20:47:30 Jun 3, 2010

R T



Center 1.907 60 GHz Span 10 MHz
#Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts)

Occupied Bandwidth
4.1667 MHz

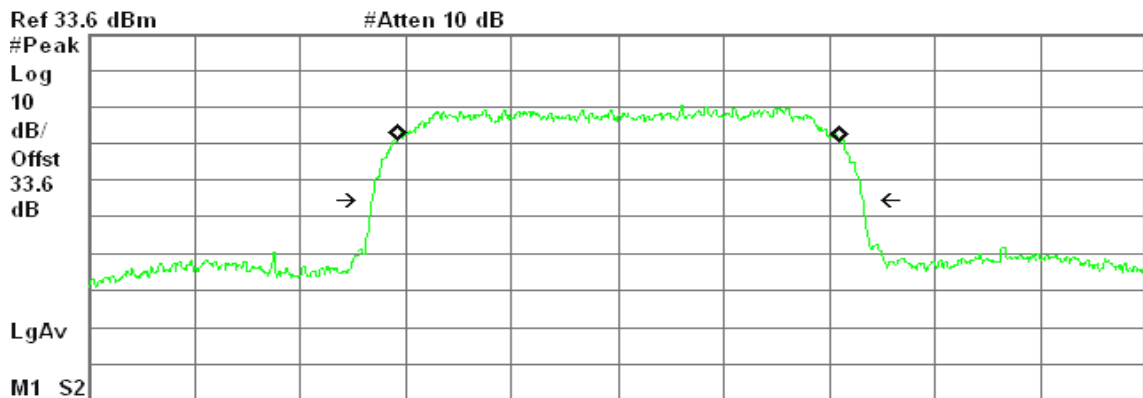
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 659.117 Hz
x dB Bandwidth 4.637 MHz

WCDMA / HSUPA Band V (CH Low).

Agilent 21:14:51 Jun 3, 2010

R T



Center 826.40 MHz Span 10 MHz
#Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts)

Occupied Bandwidth
4.1713 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

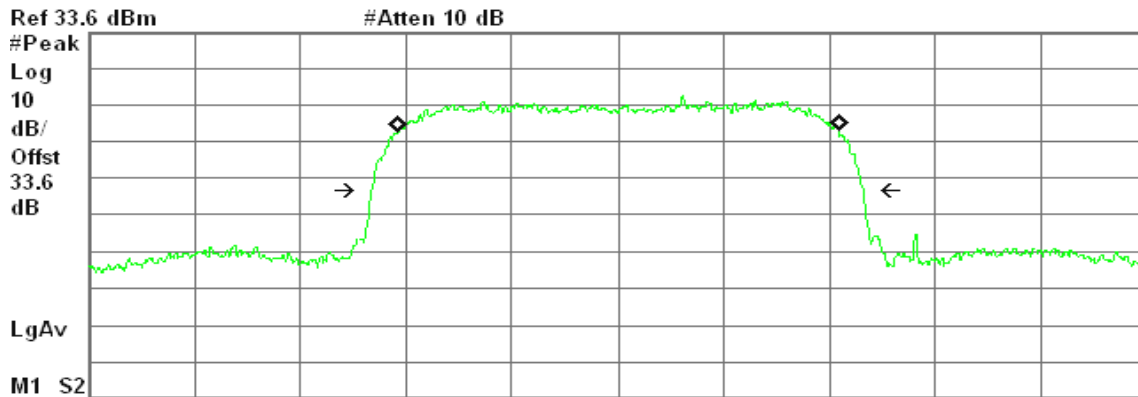
Transmit Freq Error 3.418 kHz
x dB Bandwidth 4.628 MHz



WCDMA / HSUPA Band V (CH Mid)

Agilent 21:15:41 Jun 3, 2010

R T



Center 836.60 MHz Span 10 MHz
 #Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts)

Occupied Bandwidth
 4.1749 MHz

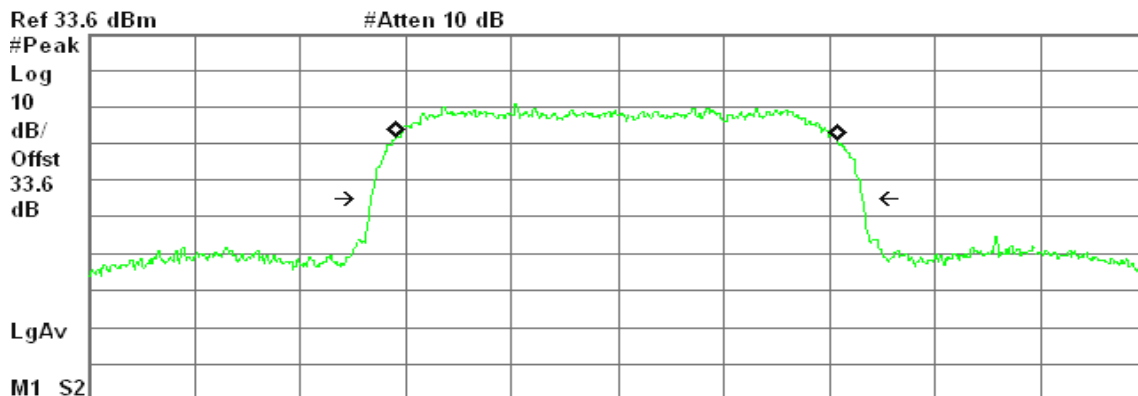
Occ BW % Pwr 99.00 %
 x dB -26.00 dB

Transmit Freq Error 2.591 kHz
 x dB Bandwidth 4.637 MHz

WCDMA / HSUPA Band V (CH High)

Agilent 21:16:33 Jun 3, 2010

R T



Center 846.60 MHz Span 10 MHz
 #Res BW 51 kHz #VBW 160 kHz Sweep 3.667 ms (1001 pts)

Occupied Bandwidth
 4.1695 MHz

Occ BW % Pwr 99.00 %
 x dB -26.00 dB

Transmit Freq Error -12.615 kHz
 x dB Bandwidth 4.636 MHz



7.5 OUT OF BAND EMISSION AT ANTENNA TERMINALS

LIMIT

According to FCC §2.1051, FCC §22.917, FCC §24.238(a).

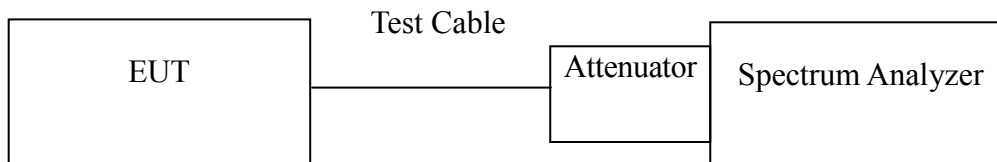
Out of Band Emissions: The mean power of emission must be attenuated below the mean power of the non-modulated carrier (P) on any frequency twice or more than twice the fundamental frequency by at least $43 + 10 \log P$ dB.

Mobile Emissions in Base Frequency Range: The mean power of any emissions appearing in the base station frequency range from cellular mobile transmitters operated must be attenuated to a level not exceed -80 dBm at the transmit antenna connector.

Band Edge Requirements: In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the Out of band Emission

Test Configuration

Out of band emission at antenna terminals:



TEST PROCEDURE

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm

Band Edge Requirements (824 MHz and 849 MHz /1850MHz and 1910MHz): In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

TEST RESULTS

No non-compliance noted.



Test Data

Mode	CH	Location	Description
GSM 850 (Class B)	128	Figure 7-1	Conducted spurious emissions, 30MHz - 20GHz
	190	Figure 7-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 7-3	Conducted spurious emissions, 30MHz - 20GHz
GPRS 850 (Class 12)	128	Figure 8-1	Conducted spurious emissions, 30MHz - 20GHz
	190	Figure 8-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 8-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
GSM 1900 (Class B)	512	Figure 9-1	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 9-2	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 9-3	Conducted spurious emissions, 30MHz - 20GHz
GPRS 1900 (Class 12)	512	Figure 10-1	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 10-2	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 10-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
GSM 850 (Class B)	128	Figure 11-1	Band Edge emissions
	251	Figure 11-2	Band Edge emissions
GPRS 850 (Class 12)	128	Figure 12-1	Band Edge emissions
	251	Figure 12-2	Band Edge emissions

Mode	CH	Location	Description
GSM 1900 (Class B)	512	Figure 13-1	Band Edge emissions
	810	Figure 13-2	Band Edge emissions
GPRS 1900 (Class 12)	512	Figure 14-1	Band Edge emissions
	810	Figure 14-2	Band Edge emissions



Mode	CH	Location	Description
EDGE 850 (Class 12)	128	Figure 15-1	Conducted spurious emissions, 30MHz - 20GHz
	190	Figure 15-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 15-3	Conducted spurious emissions, 30MHz - 20GHz
EDGE 1900 (Class 12)	512	Figure 16-1	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 16-2	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 16-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
EDGE 850 (Class 12)	128	Figure 17-1	Band Edge emissions
	251	Figure 17-2	Band Edge emissions
EDGE 1900 (Class 12)	512	Figure 18-1	Band Edge emissions
	810	Figure 18-2	Band Edge emissions



Mode	CH	Location	Description
WCDMA (Band II)	9262	Figure 19-1	Conducted spurious emissions, 30MHz - 20GHz
	9400	Figure 19-2	Conducted spurious emissions, 30MHz - 20GHz
	9538	Figure 19-3	Conducted spurious emissions, 30MHz - 20GHz
WCDMA (Band V)	4132	Figure 20-1	Conducted spurious emissions, 30MHz - 20GHz
	4182	Figure 20-2	Conducted spurious emissions, 30MHz - 20GHz
	4233	Figure 20-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
WCDMA (Band II)	9262	Figure 21-1	Band Edge emissions
	9538	Figure 21-2	Band Edge emissions
WCDMA (Band V)	4132	Figure 22-1	Band Edge emissions
	4233	Figure 22-2	Band Edge emissions

Mode	CH	Location	Description
HSDPA WCDMA (Band II)	9262	Figure 23-1	Conducted spurious emissions, 30MHz - 20GHz
	9400	Figure 23-2	Conducted spurious emissions, 30MHz - 20GHz
	9538	Figure 23-3	Conducted spurious emissions, 30MHz - 20GHz
HSDPA WCDMA (Band V)	4132	Figure 24-1	Conducted spurious emissions, 30MHz - 20GHz
	4182	Figure 24-2	Conducted spurious emissions, 30MHz - 20GHz
	4233	Figure 24-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
HSDPA WCDMA (Band II)	9262	Figure 25-1	Band Edge emissions
	9538	Figure 25-2	Band Edge emissions
HSDPA WCDMA (Band V)	4132	Figure 26-1	Band Edge emissions
	4233	Figure 26-2	Band Edge emissions



Mode	CH	Location	Description
HSUPA WCDMA (Band II)	9262	Figure 27-1	Conducted spurious emissions, 30MHz - 20GHz
	9400	Figure 27-2	Conducted spurious emissions, 30MHz - 20GHz
	9538	Figure 27-3	Conducted spurious emissions, 30MHz - 20GHz
HSUPA WCDMA (Band V)	4132	Figure 28-1	Conducted spurious emissions, 30MHz - 20GHz
	4182	Figure 28-2	Conducted spurious emissions, 30MHz - 20GHz
	4233	Figure 28-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
HSUPA WCDMA (Band II)	9262	Figure 29-1	Band Edge emissions
	9538	Figure 29-2	Band Edge emissions
HSUPA WCDMA (Band V)	4132	Figure 30-1	Band Edge emissions
	4233	Figure 30-2	Band Edge emissions



Test Plot

GSM 850

Figure 7-1: Out of Band emission at antenna terminals – GSM CH Low

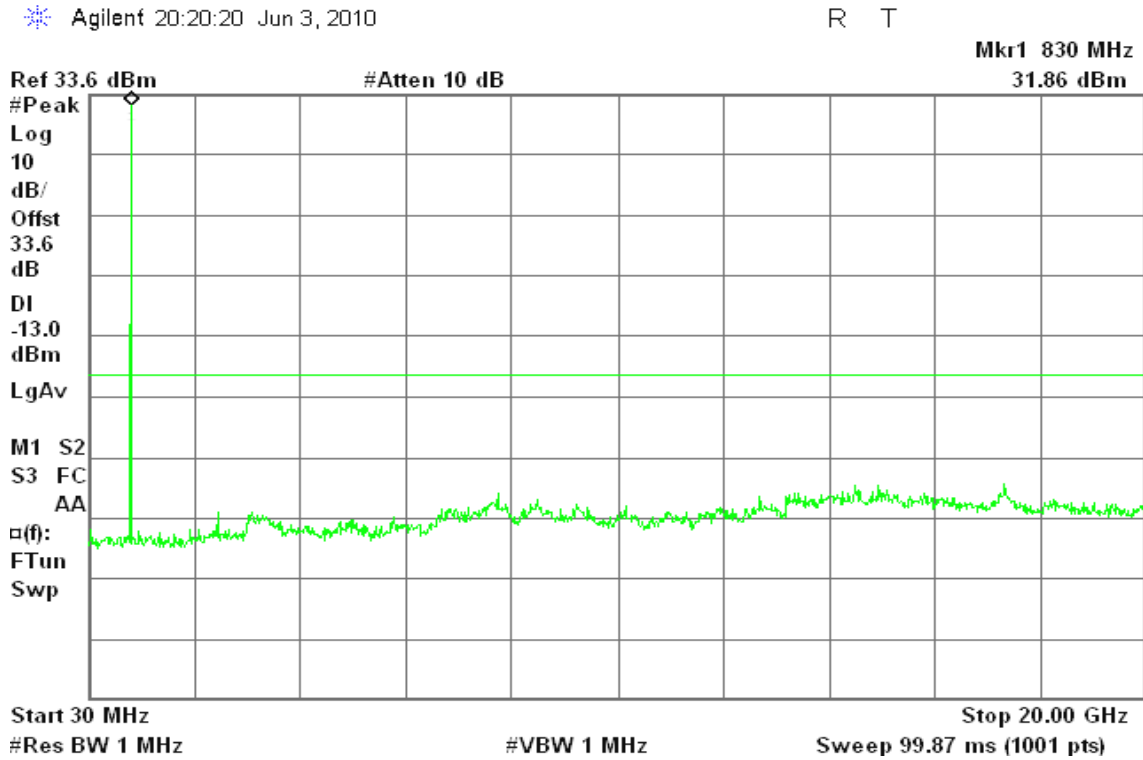


Figure 7-2: Out of Band emission at antenna terminals – GSM CH Mid

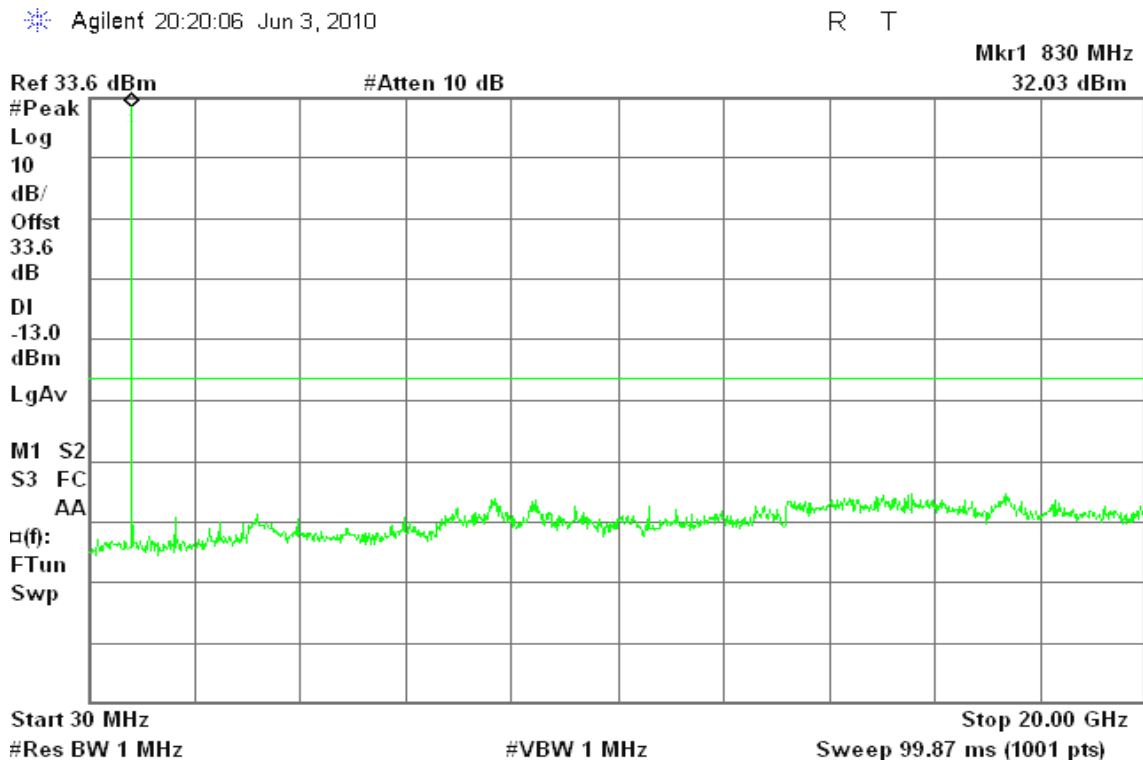
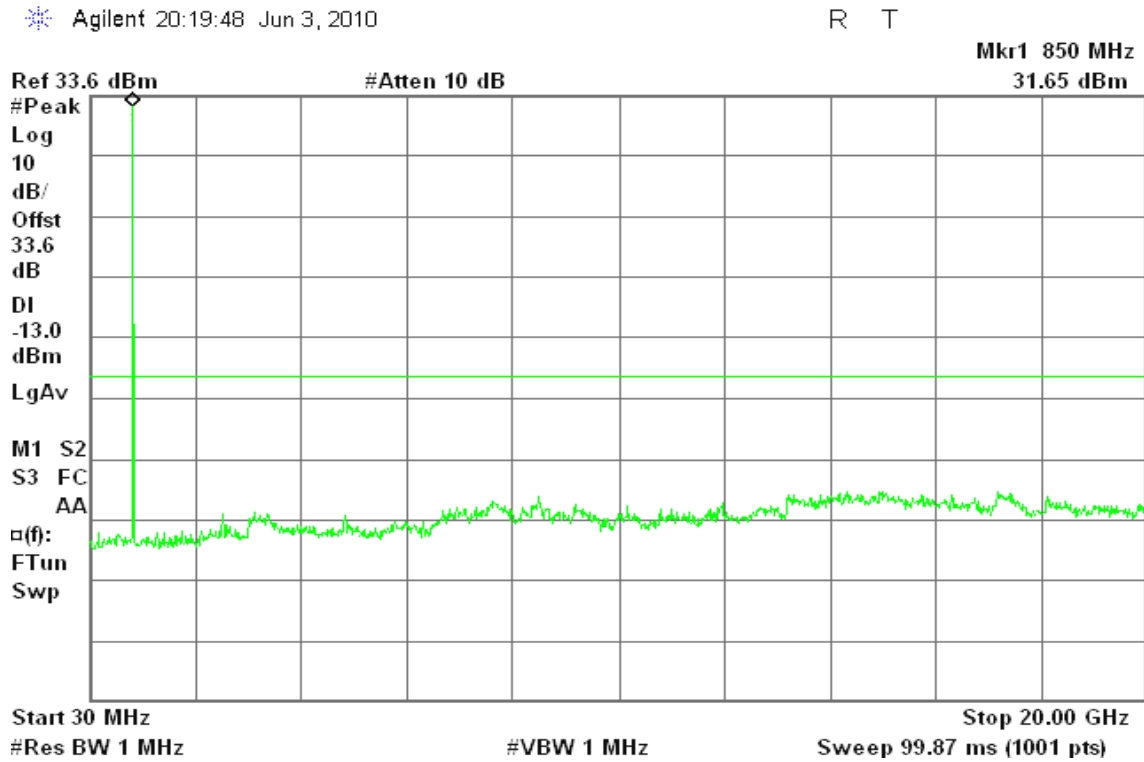




Figure 7-3: Out of Band emission at antenna terminals – GSM CH High



GPRS 850

Figure 8-1: Out of Band emission at antenna terminals – GSM CH Low

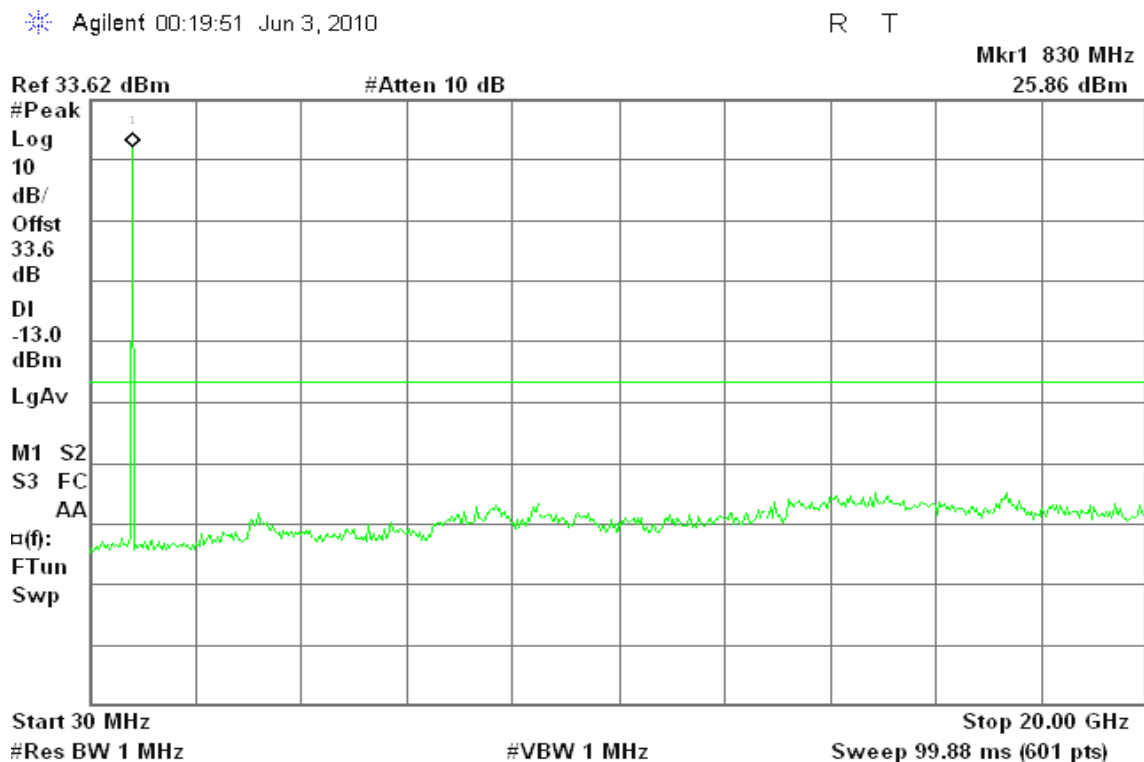




Figure 8-2: Out of Band emission at antenna terminals – GSM CH Mid

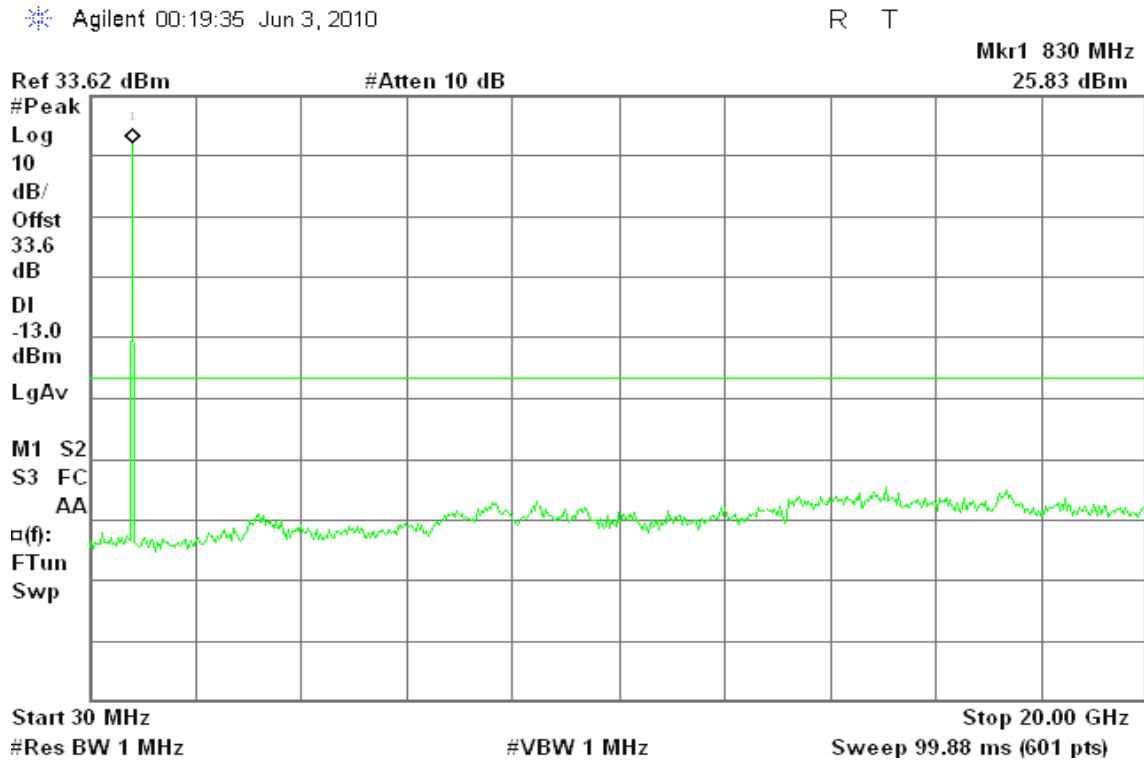
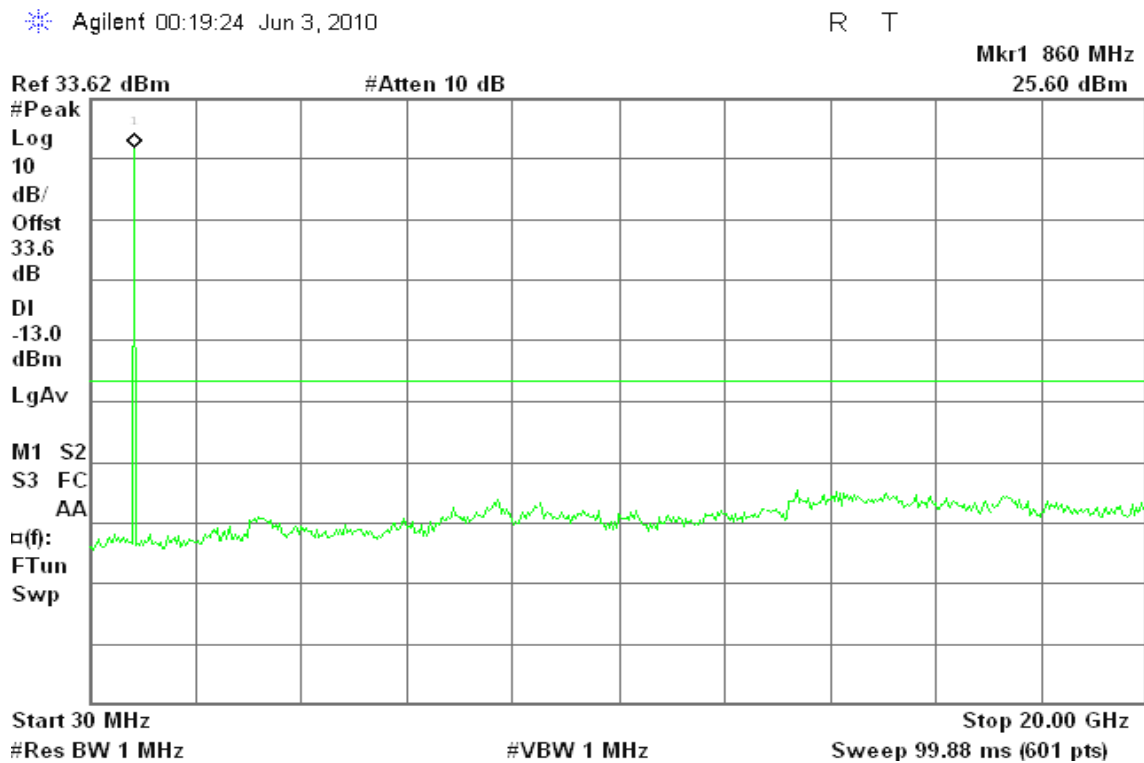


Figure 8-3: Out of Band emission at antenna terminals – GSM CH High





GSM 1900

Figure 9-1: Out of Band emission at antenna terminals – GSM CH Low

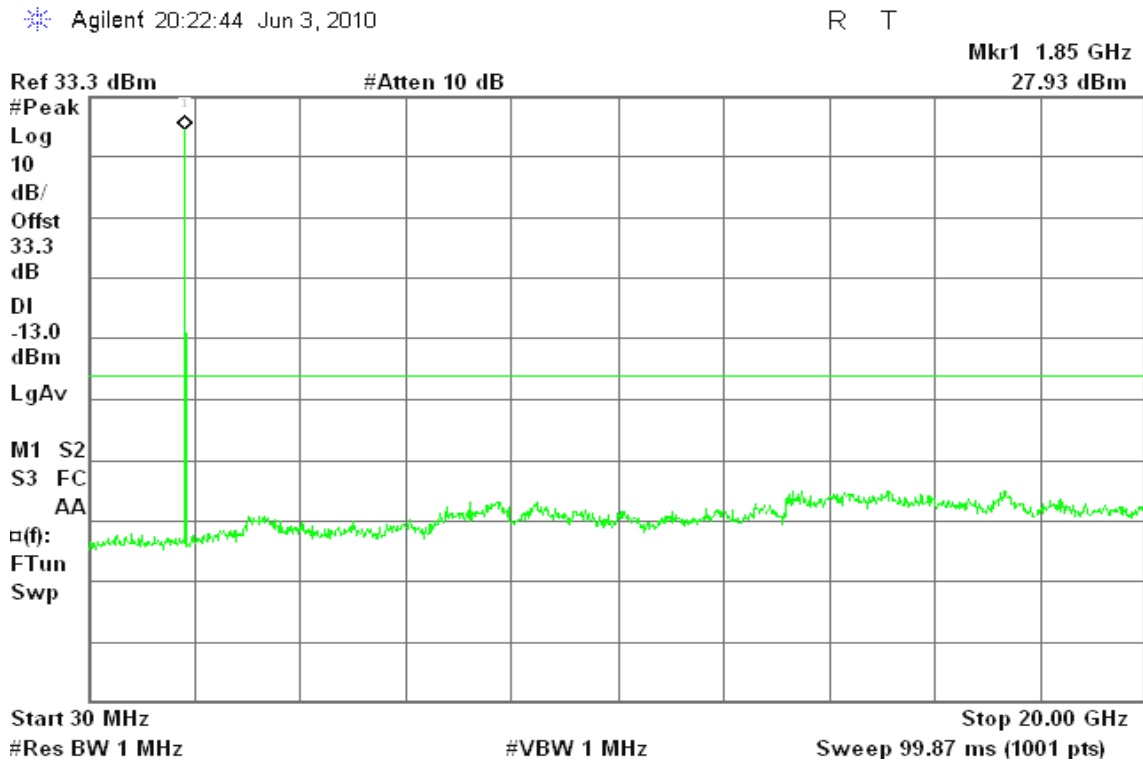


Figure 9-2: Out of Band emission at antenna terminals – GSM CH Mid

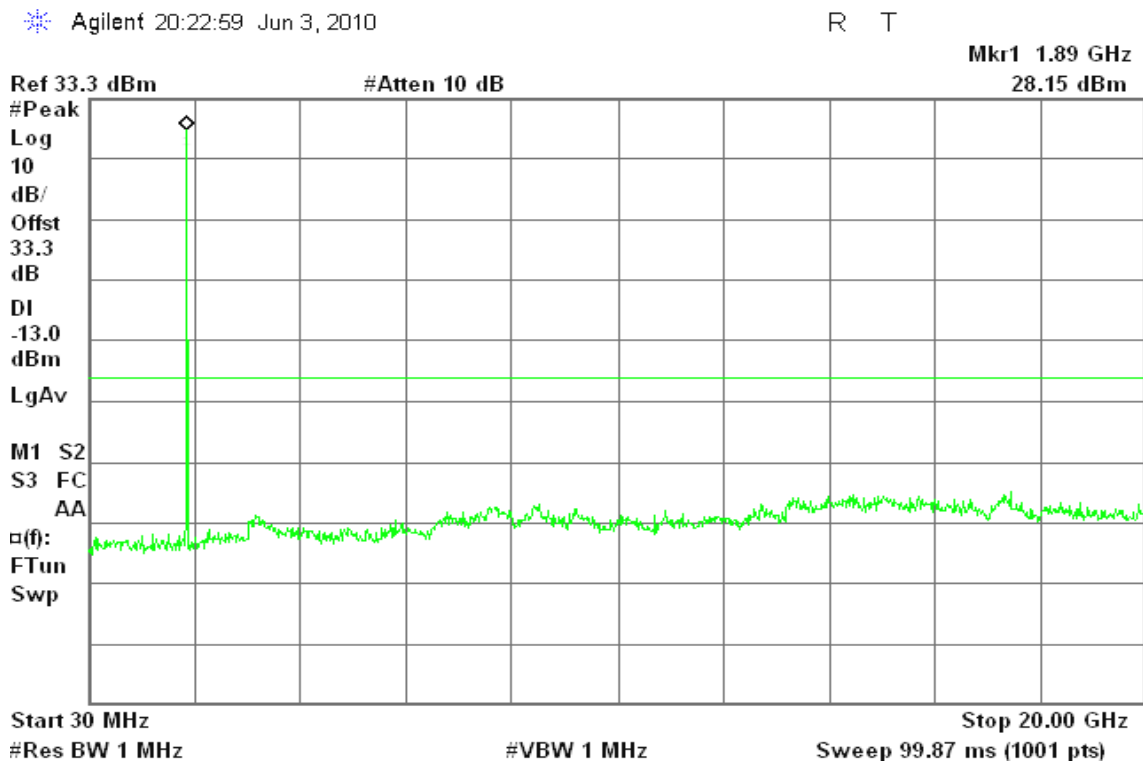
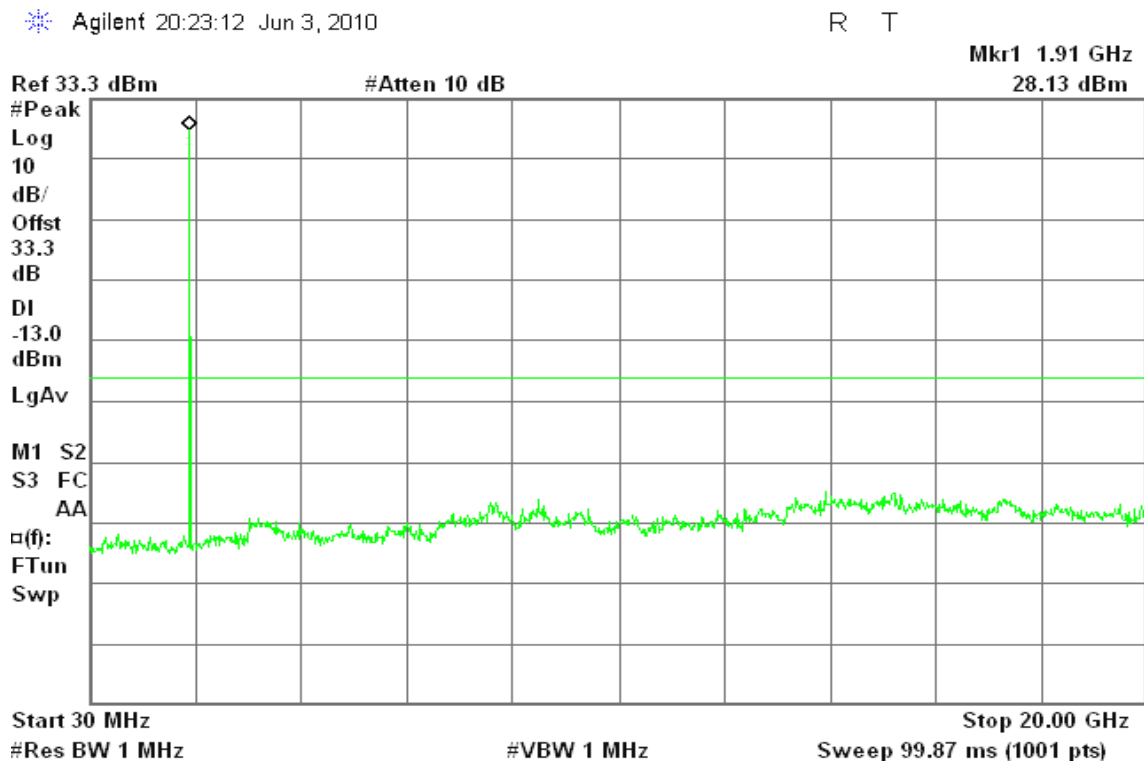




Figure 9-3: Out of Band emission at antenna terminals – GSM CH High



GPRS 1900

Figure 10-1: Out of Band emission at antenna terminals – GSM CH Low

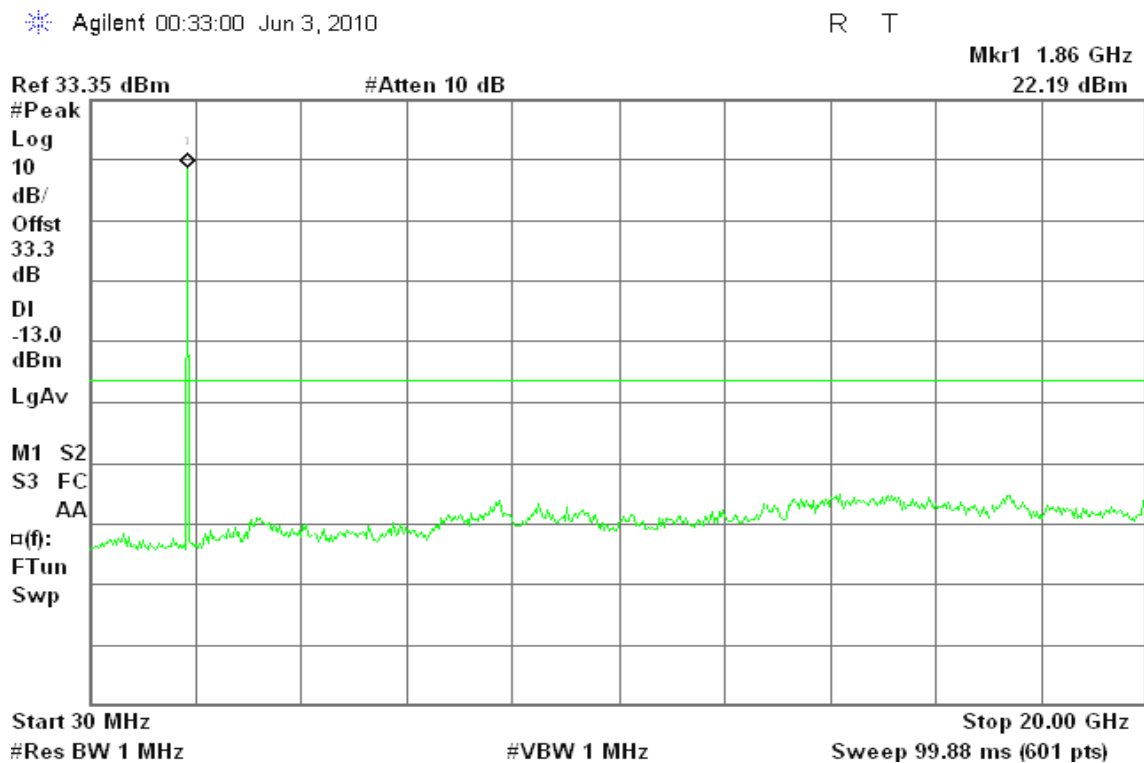




Figure 10-2: Out of Band emission at antenna terminals – GSM CH Mid

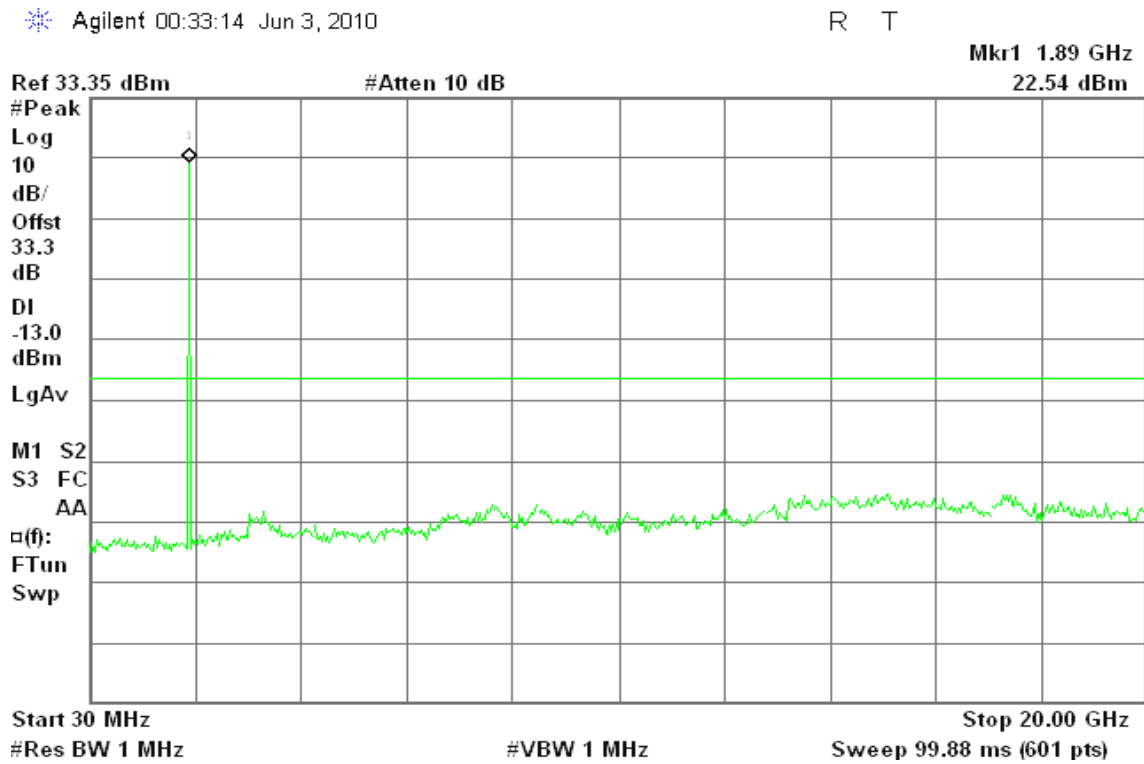
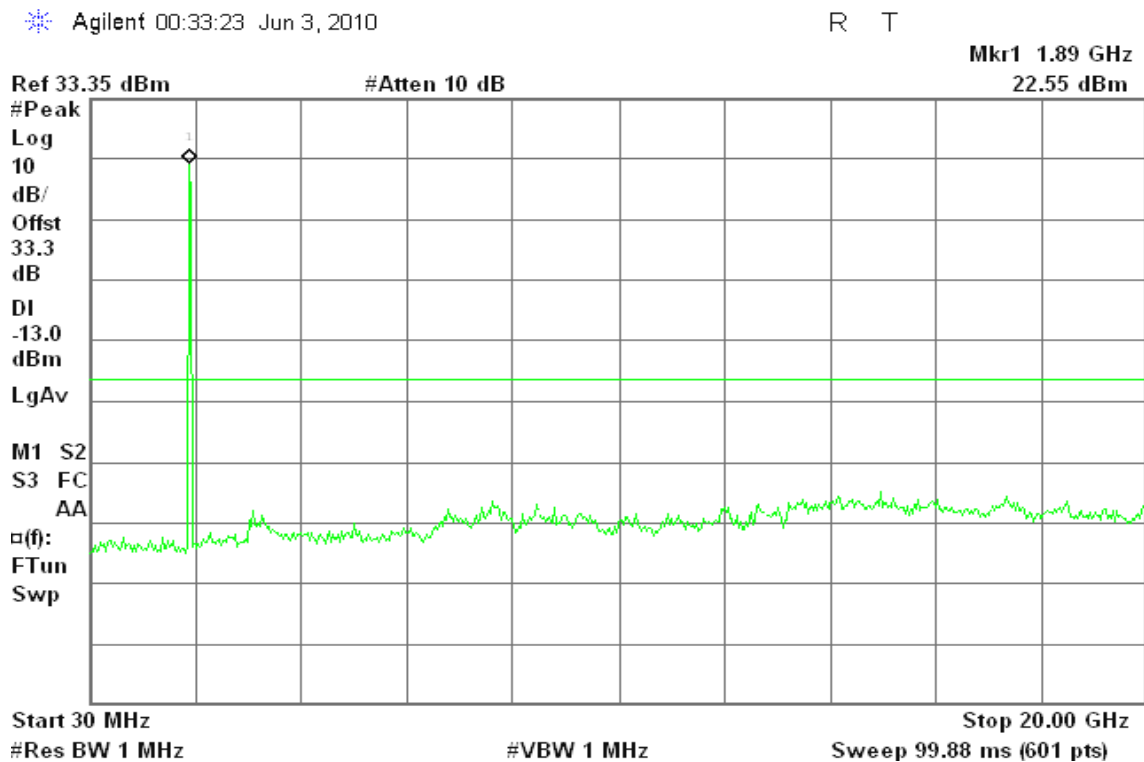


Figure 10-3: Out of Band emission at antenna terminals – GSM CH High





GSM 850

Figure 11-1: Band Edge emissions – GSM CH Low

Agilent 20:16:22 Jun 3, 2010

R T

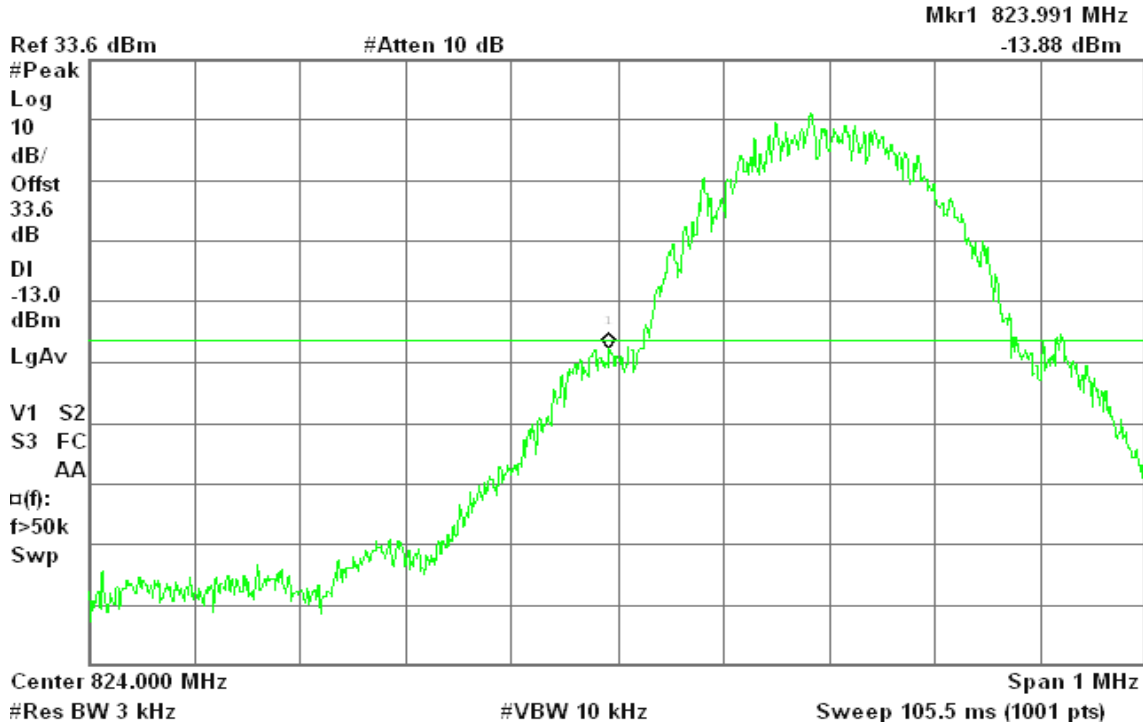
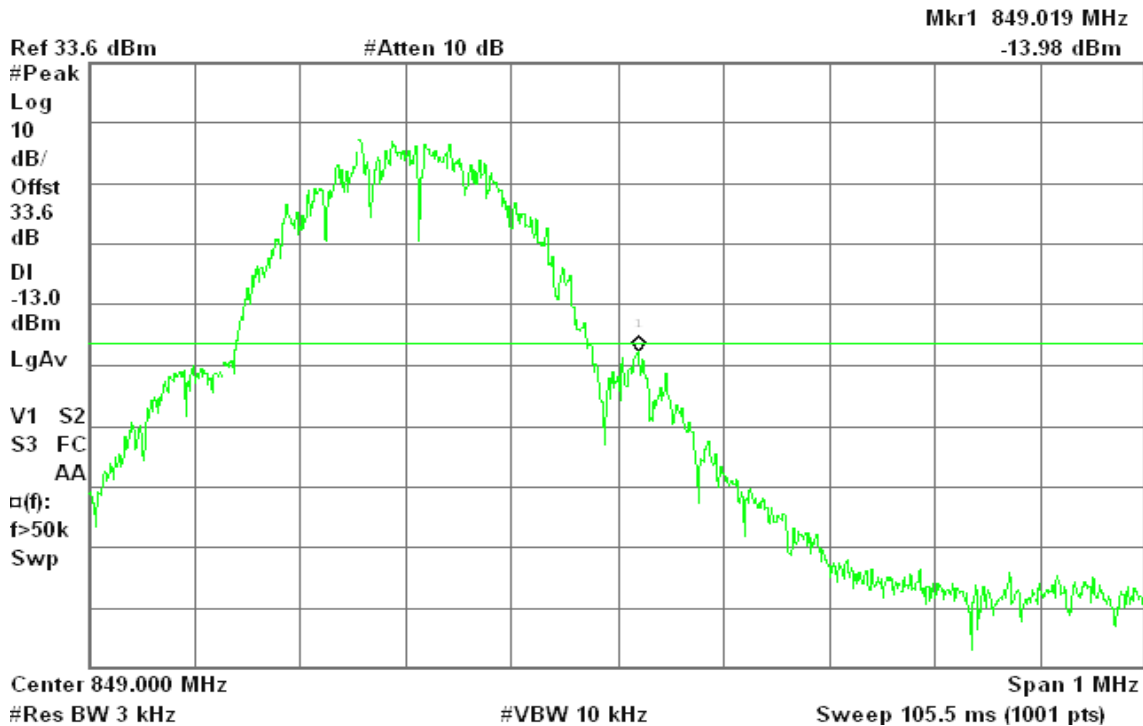


Figure 11-2: Band Edge emissions – GSM CH High

Agilent 20:19:11 Jun 3, 2010

R T





GPRS 850

Figure 12-1: Band Edge emissions – GPRS CH Low

Agilent 00:17:54 Jun 3, 2010

R T

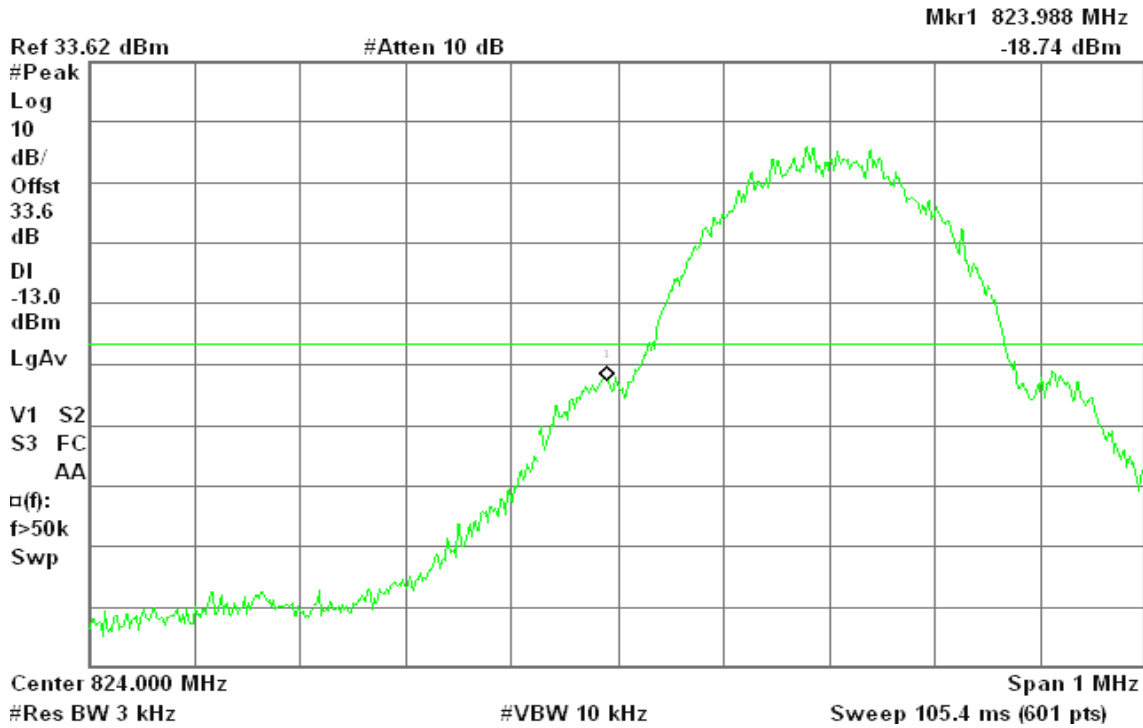
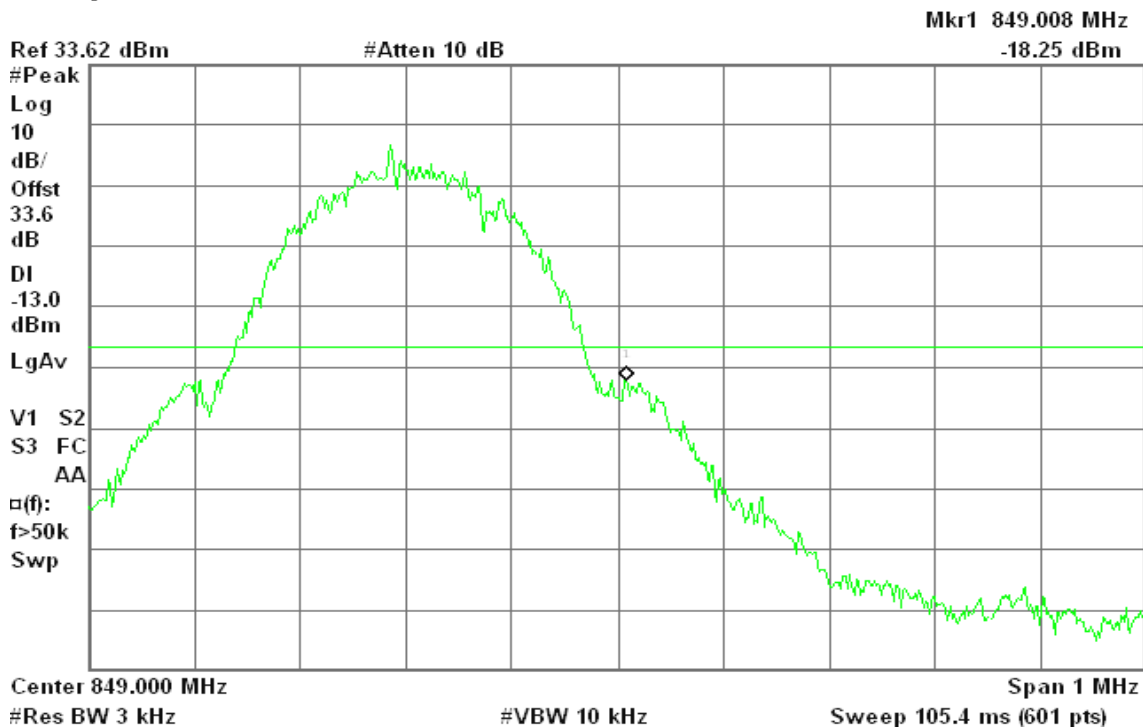


Figure 12-2: Band Edge emissions –GPRS CH High

Agilent 00:18:36 Jun 3, 2010

R T





GSM 1900

Figure 13-1: Band Edge emissions – GSM CH Low

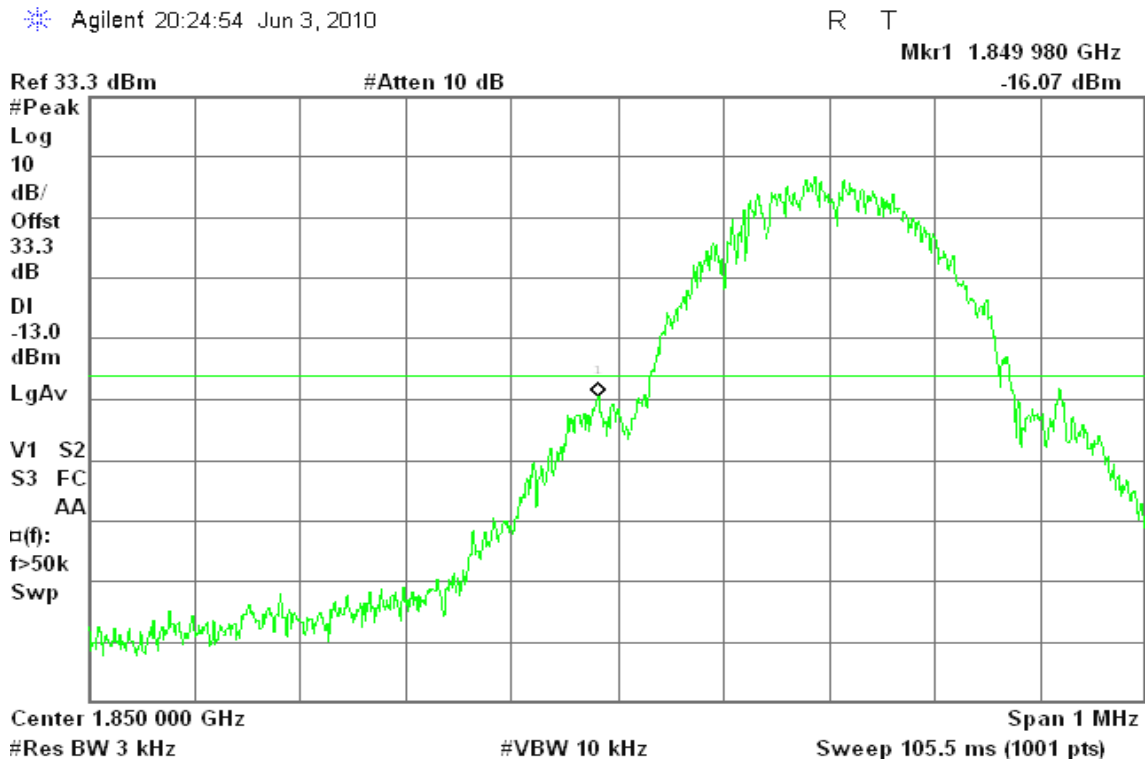
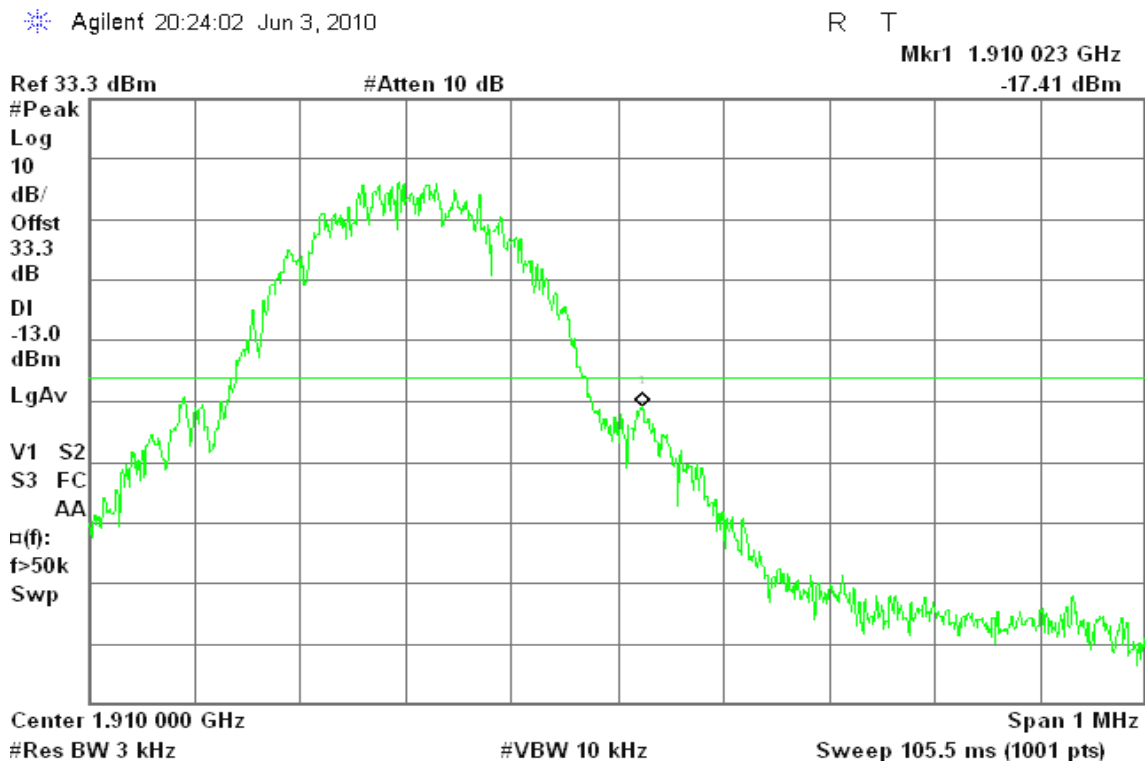


Figure 13-2: Band Edge emissions – GSM CH High





GPRS 1900

Figure 14-1: Band Edge emissions – GPRS CH Low

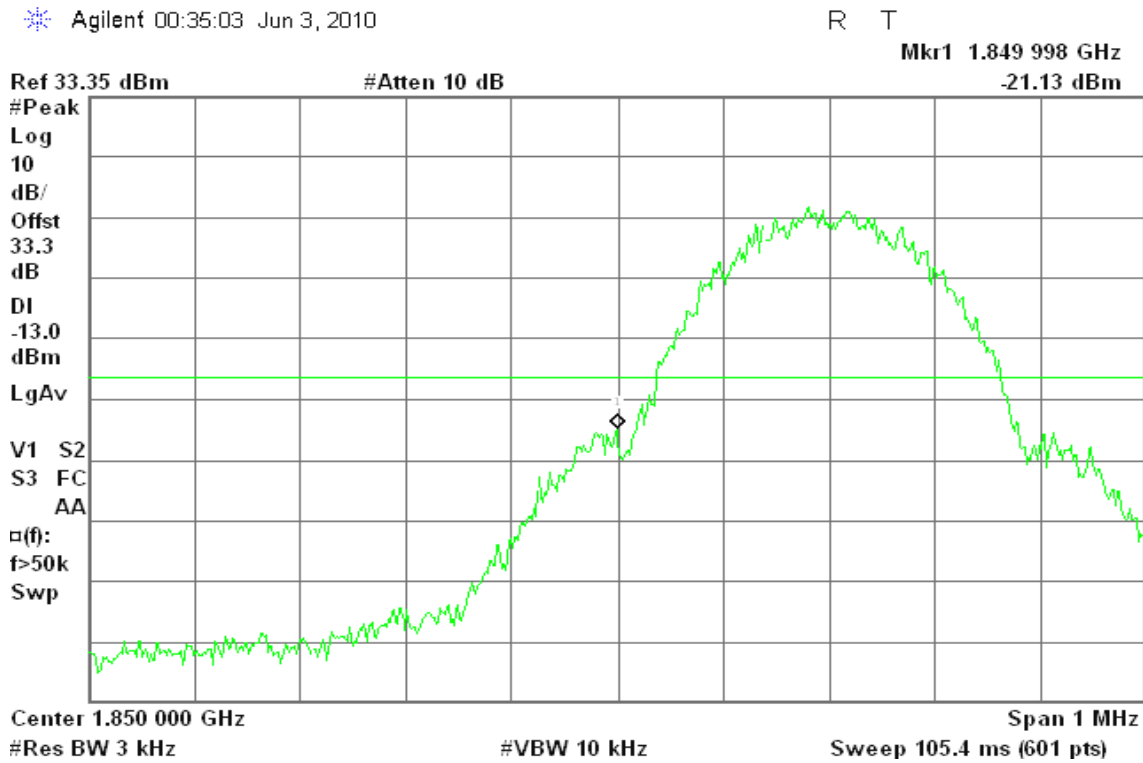
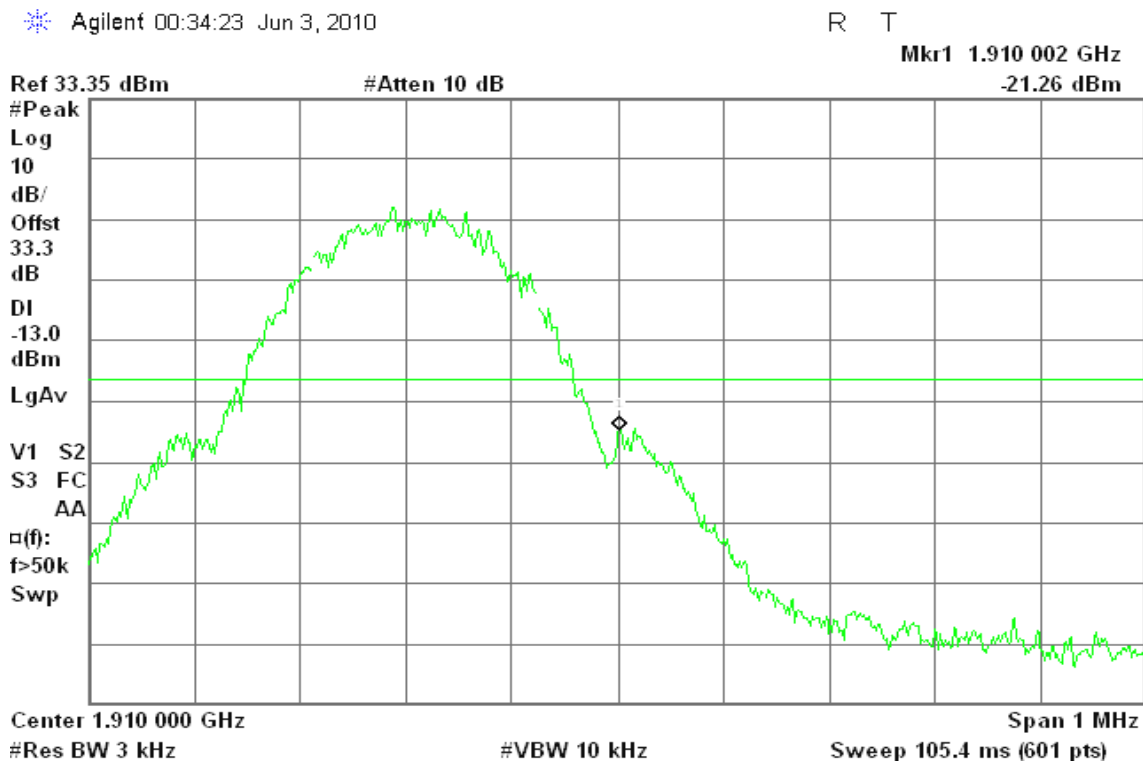


Figure 14-2: Band Edge emissions – GPRS CH High





EDGE 850

Figure 15-1: Out of Band emission at antenna terminals –EDGE CH Low

Agilent 00:21:00 Jun 3, 2010

R T

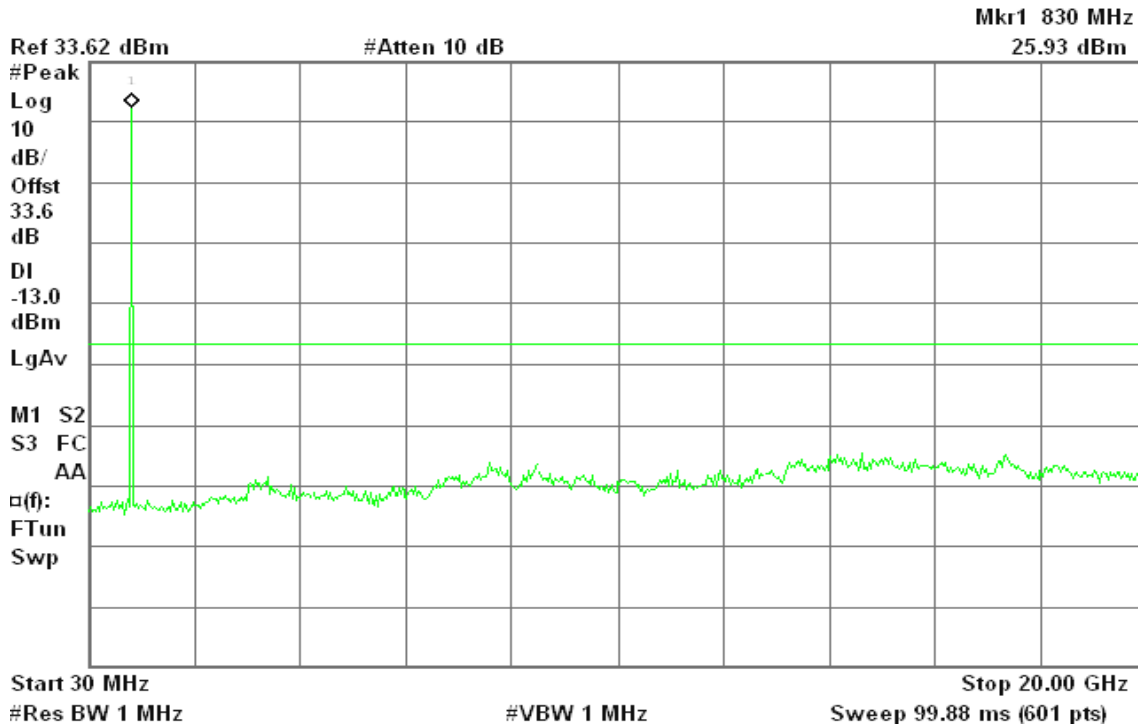


Figure 15-2: Out of Band emission at antenna terminals –EDGE CH Mid

Agilent 00:21:18 Jun 3, 2010

R T

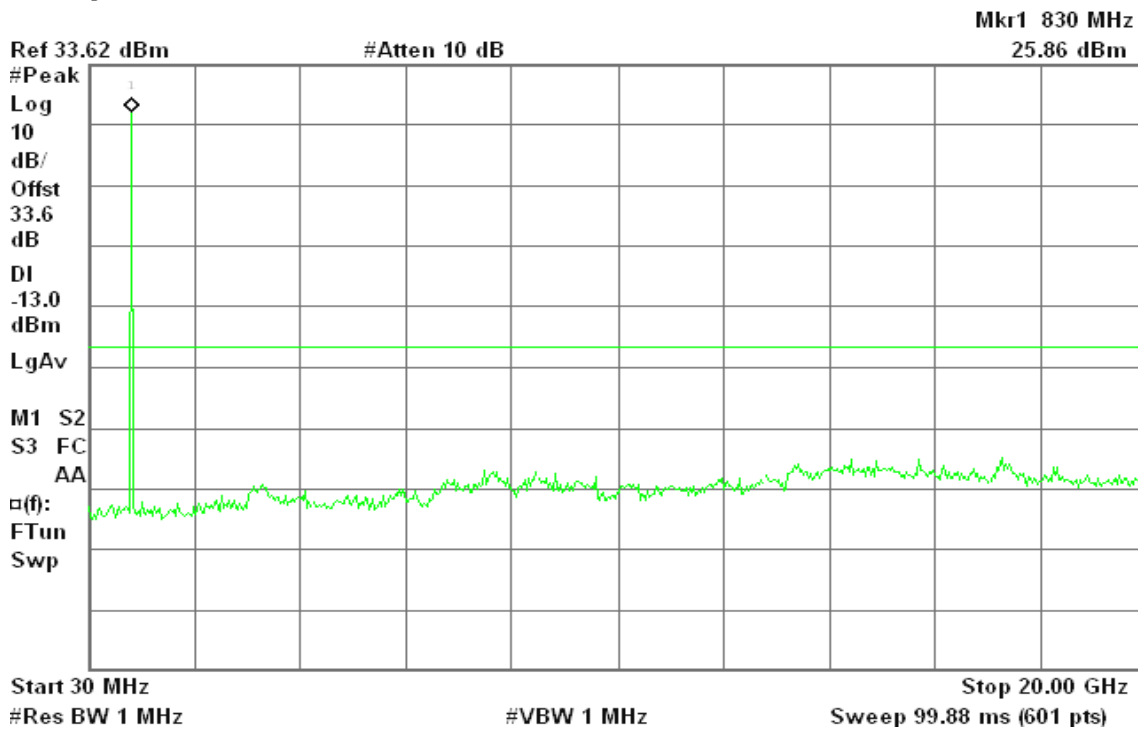
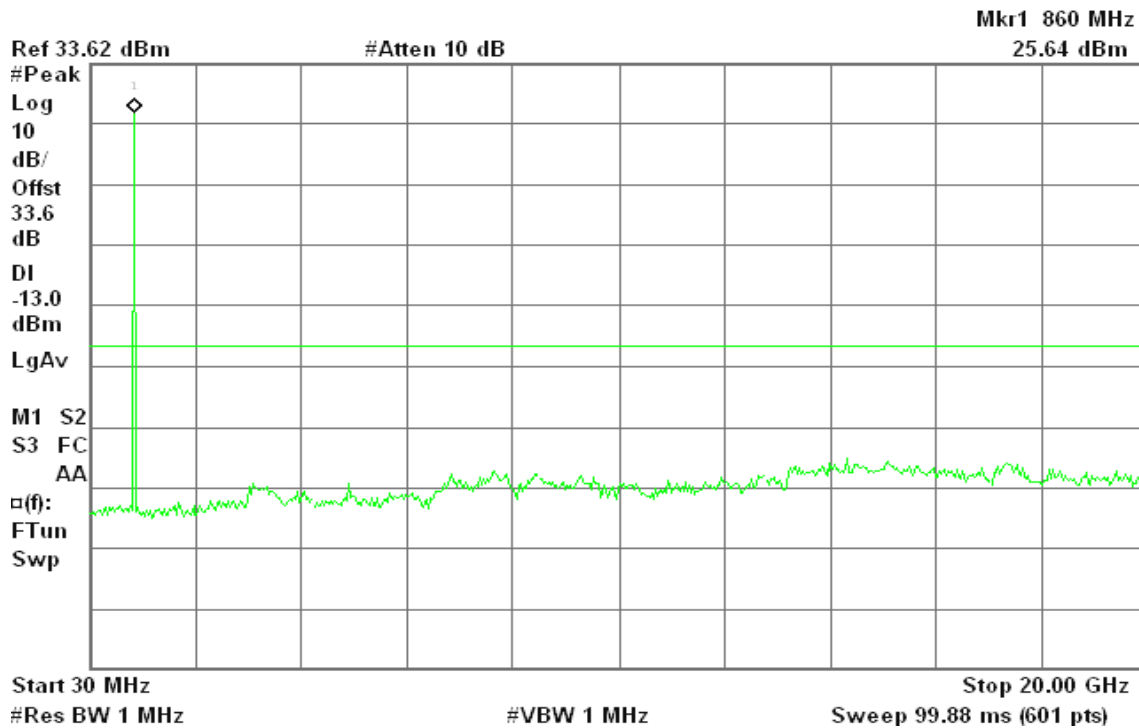




Figure 15-3: Out of Band emission at antenna terminals –EDGE CH High

Agilent 00:21:29 Jun 3, 2010

R T



EDGE 1900

Figure 16-1: Out of Band emission at antenna terminals –EDGE CH Low

Agilent 00:44:13 Jun 3, 2010

R T

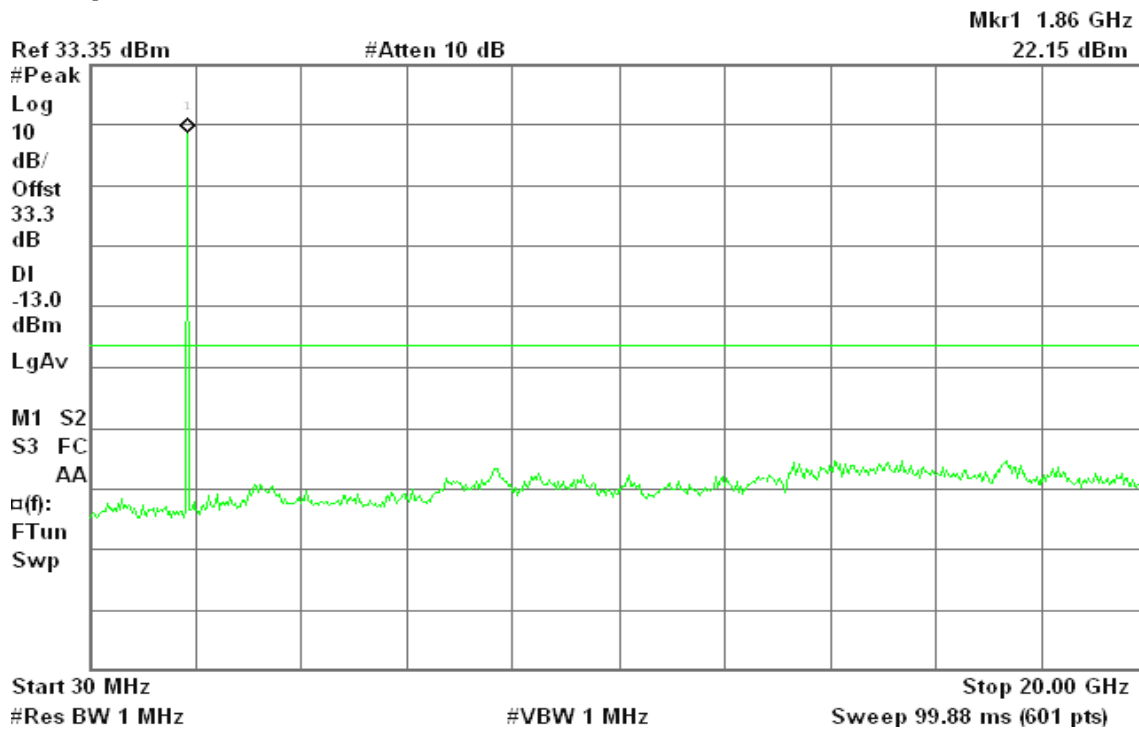




Figure 16-2: Out of Band emission at antenna terminals –EDGE CH Mid

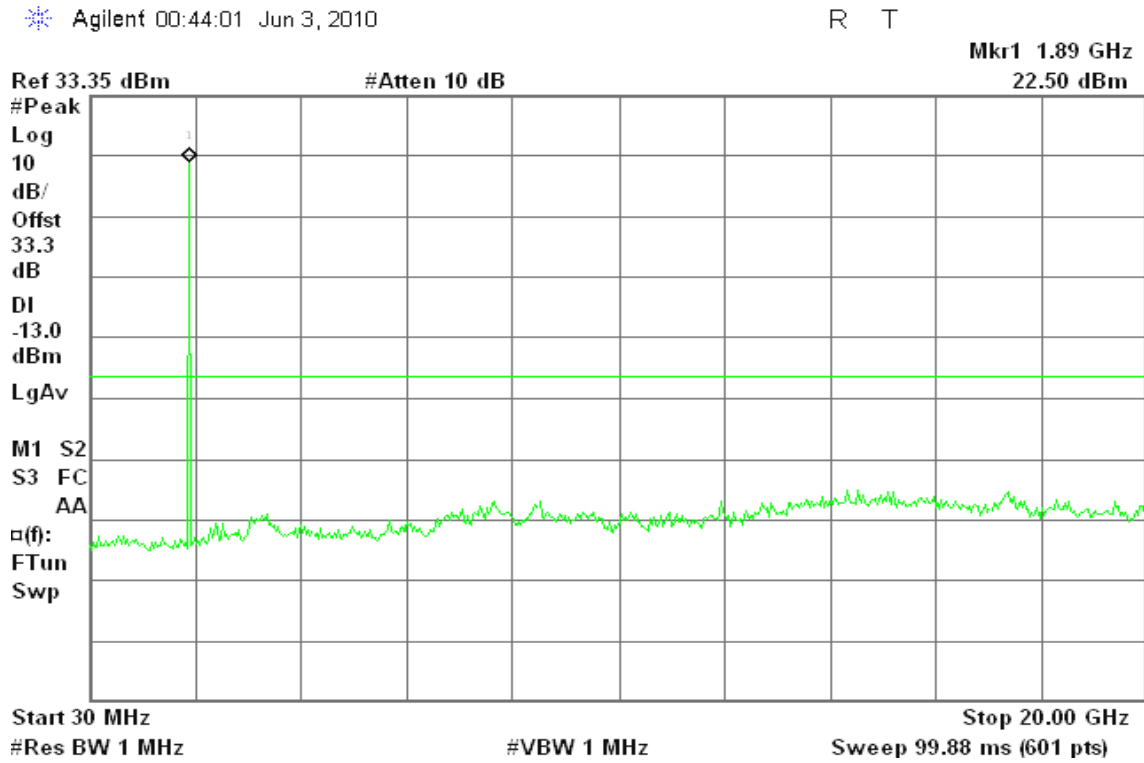
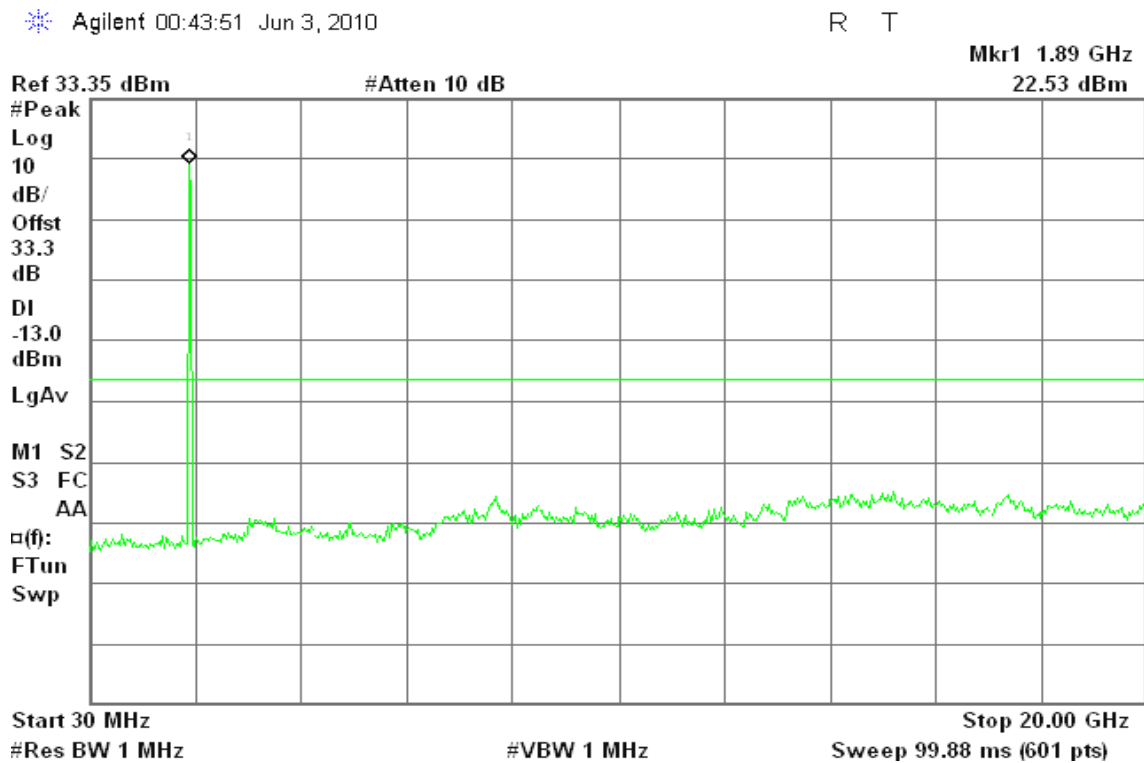


Figure 16-3: Out of Band emission at antenna terminals –EDGE CH High





EDGE 850

Figure 17-1: Band Edge emissions – EDGE CH Low

Agilent 00:22:35 Jun 3, 2010

R T

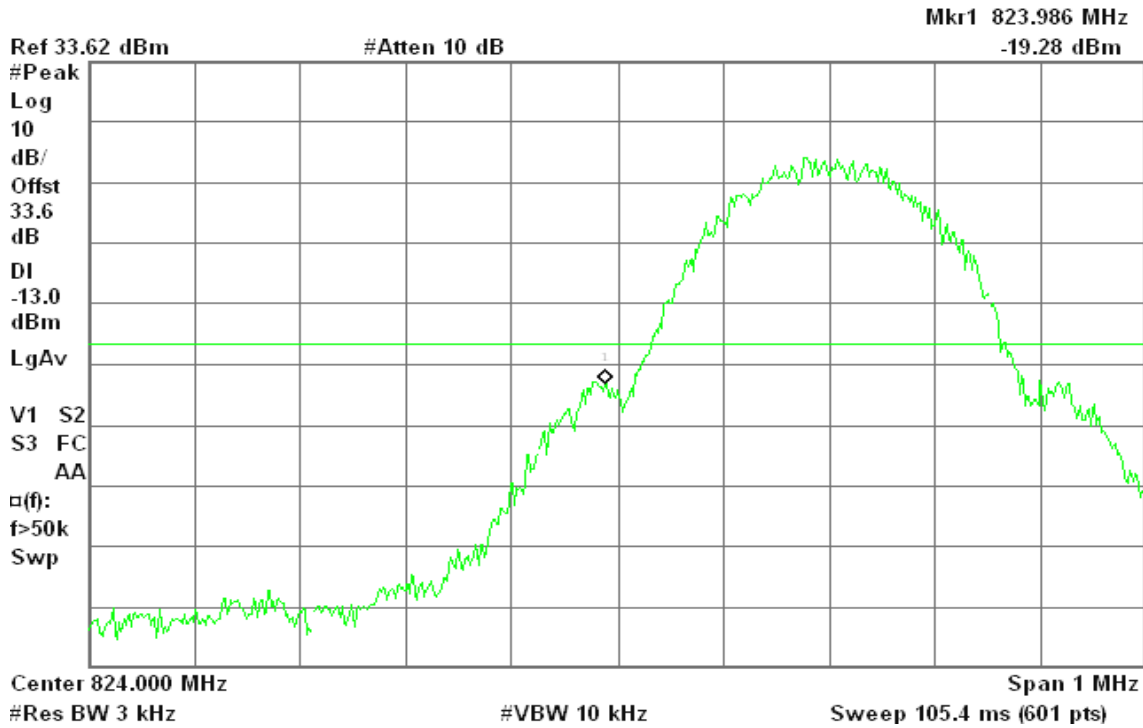
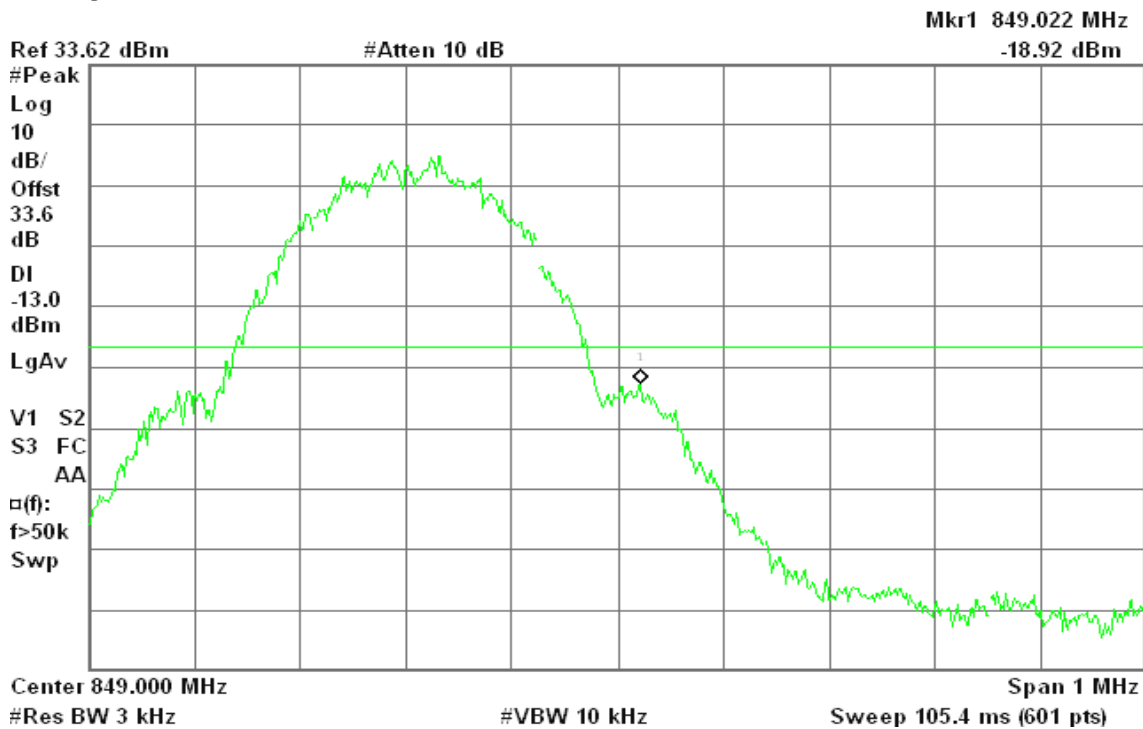


Figure 17-2: Band Edge emissions – EDGE CH High

Agilent 00:22:13 Jun 3, 2010

R T





EDGE 1900

Figure 18-1: Band Edge emissions – EDGE CH Low

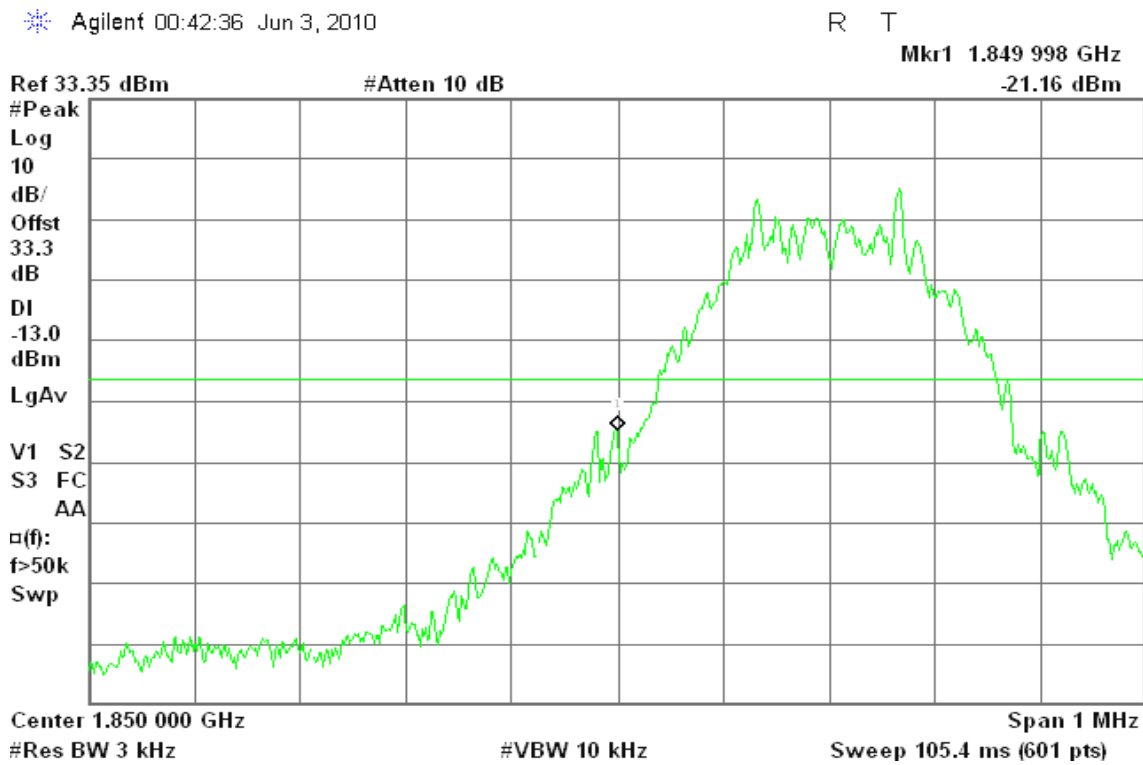
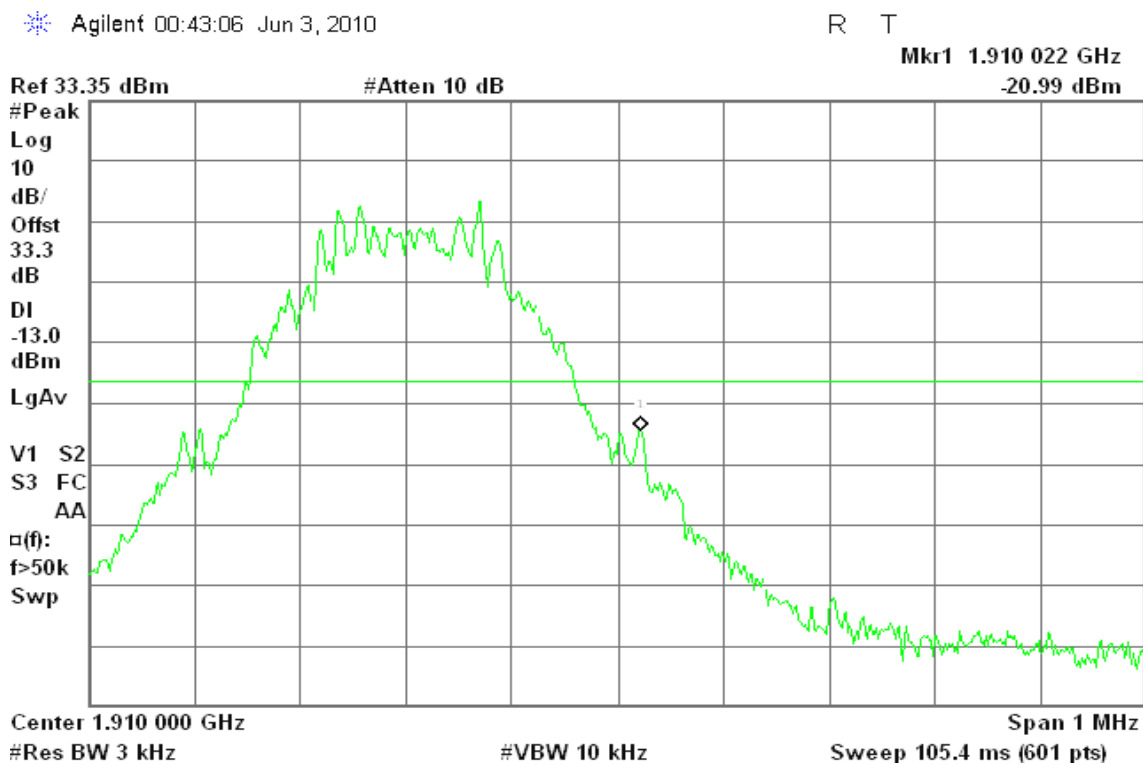


Figure 18-2: Band Edge emissions – EDGE CH High





WCDMA Band II

Figure 19-1: Out of Band emission at antenna terminals – WCDMA CH Low

Agilent 21:03:54 Jun 3, 2010

R T

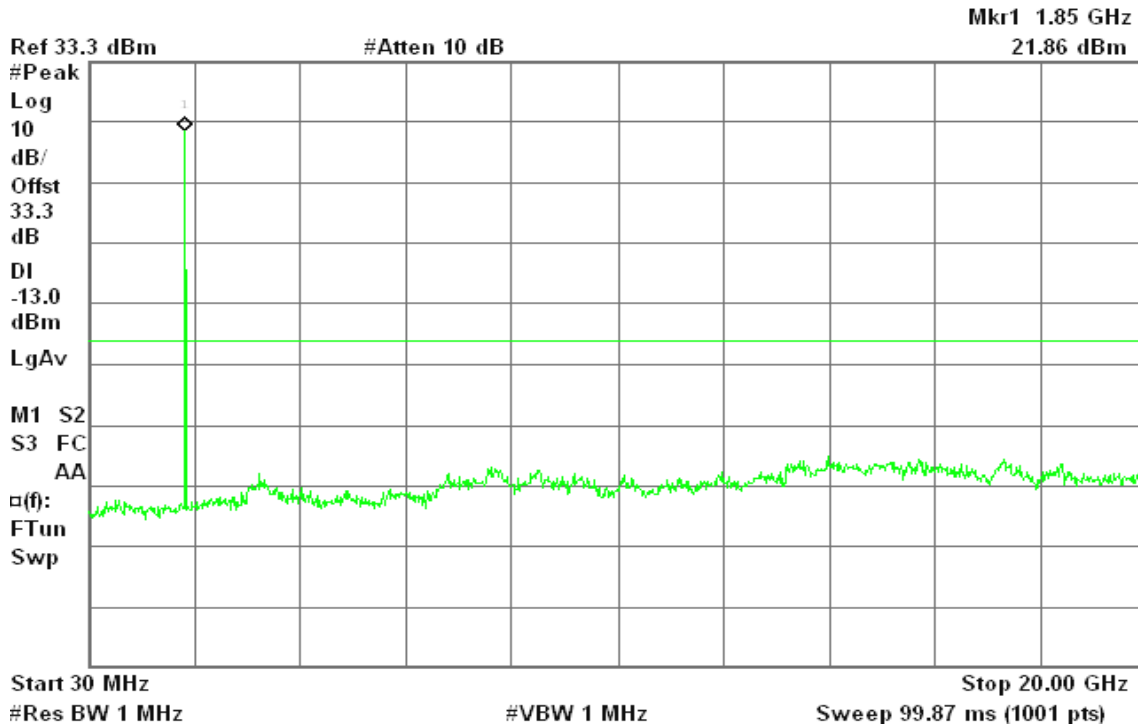


Figure 19-2: Out of Band emission at antenna terminals – WCDMA CH Mid

Agilent 21:03:39 Jun 3, 2010

R T

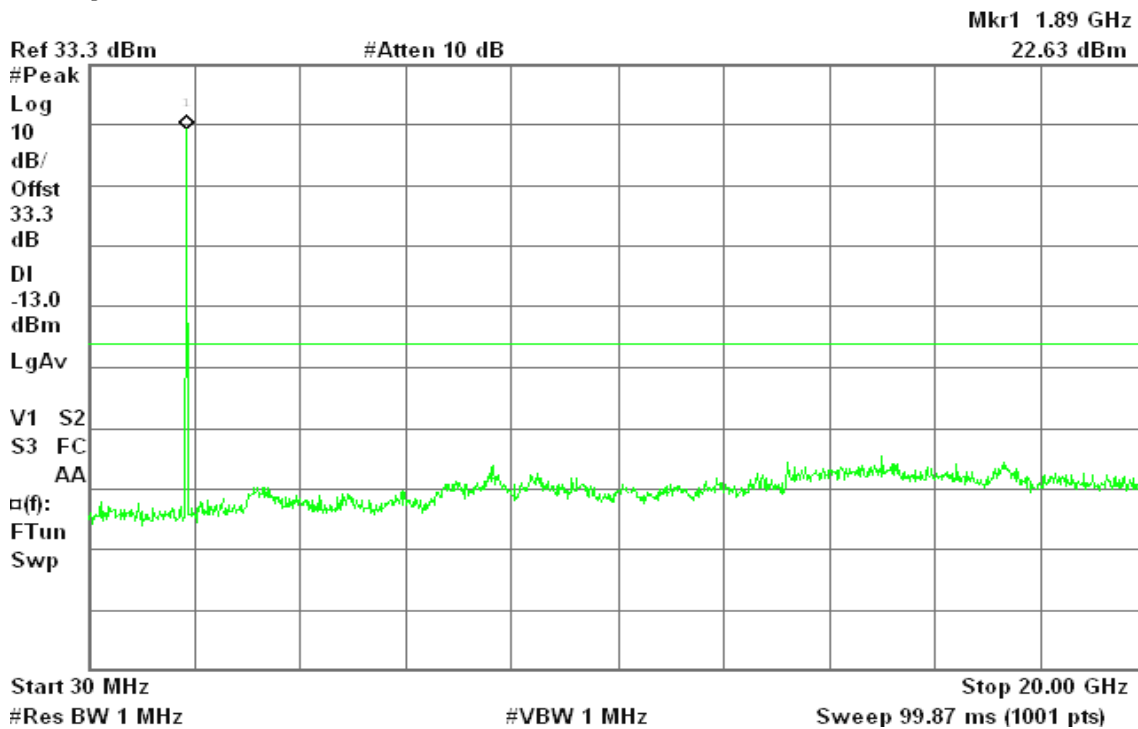
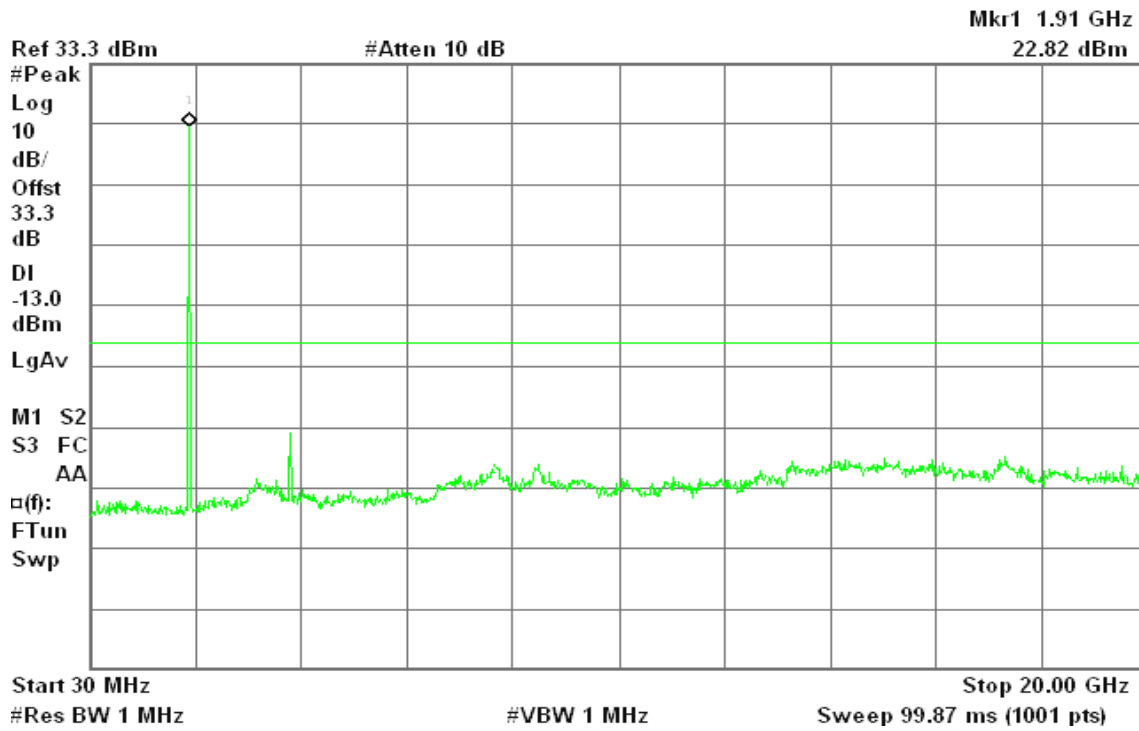




Figure 19-3: Out of Band emission at antenna terminals – WCDMA CH High

Agilent 21:02:20 Jun 3, 2010

R T



WCDMA Band V

Figure 20-1: Out of Band emission at antenna terminals – WCDMA CH Low

Agilent 21:07:07 Jun 3, 2010

R T

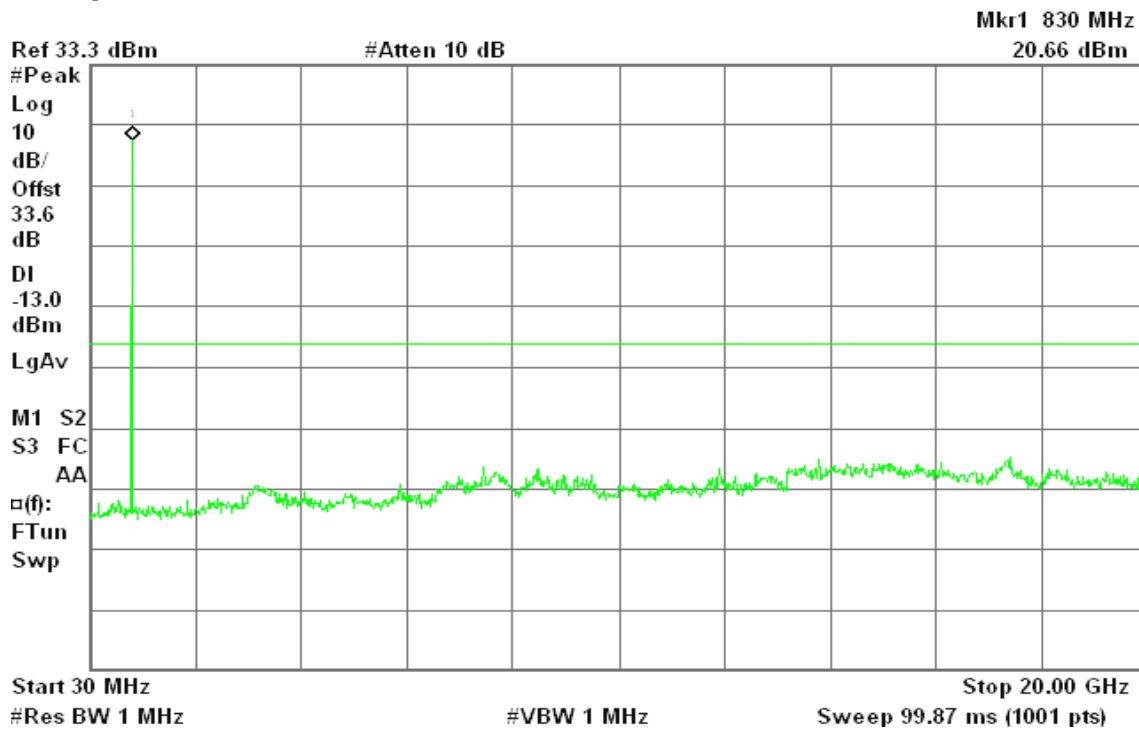




Figure 20-2: Out of Band emission at antenna terminals – WCDMA CH Mid

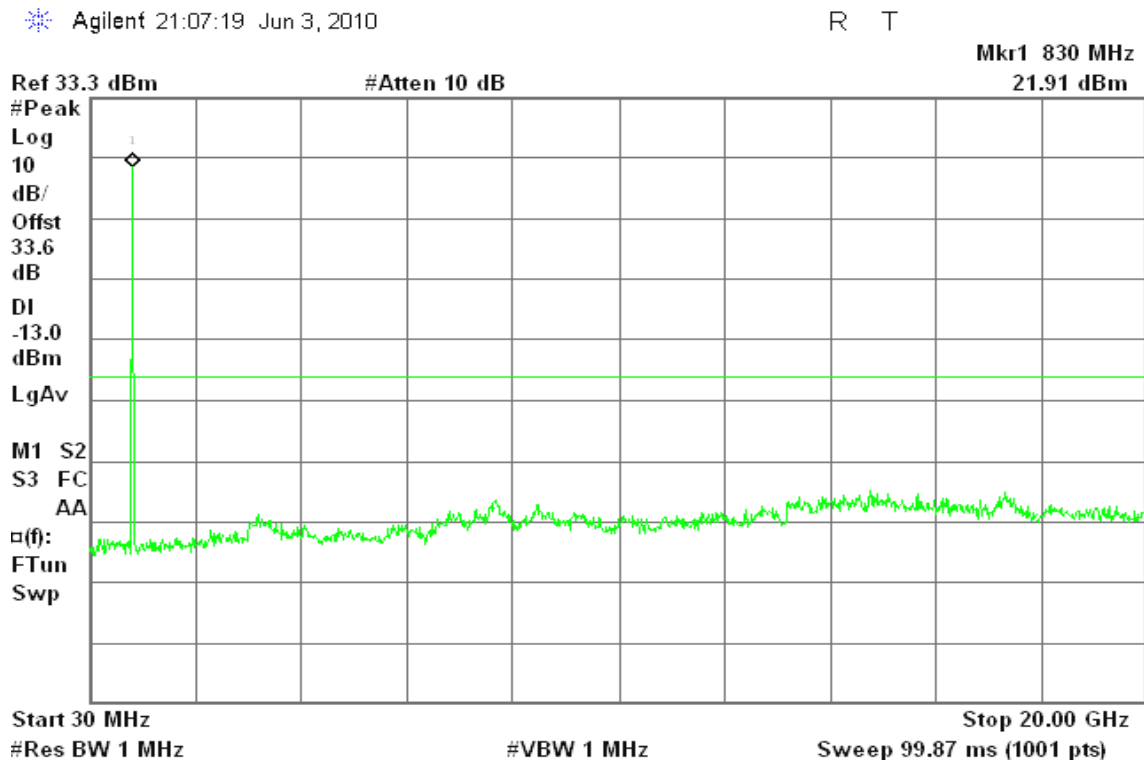
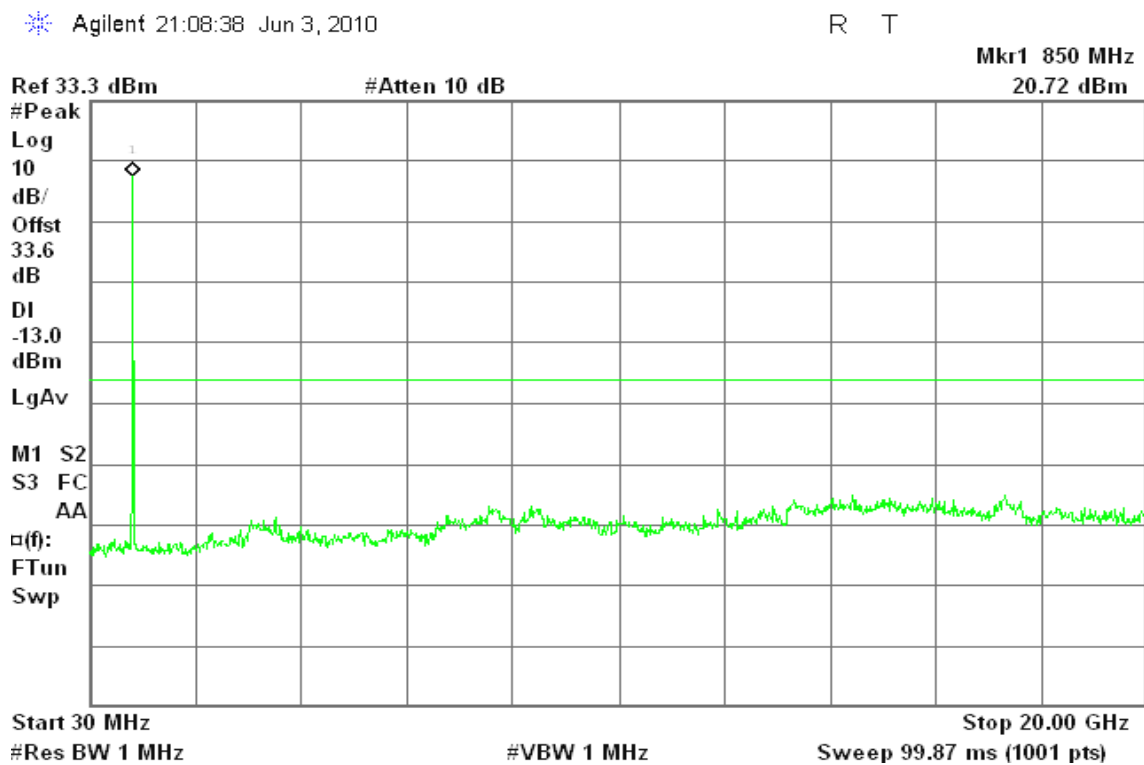


Figure 20-3: Out of Band emission at antenna terminals – WCDMA CH High





WCDMA Band II

Figure 21-1: Band Edge emissions – WCDMA CH Low

Agilent 20:59:55 Jun 3, 2010

R T

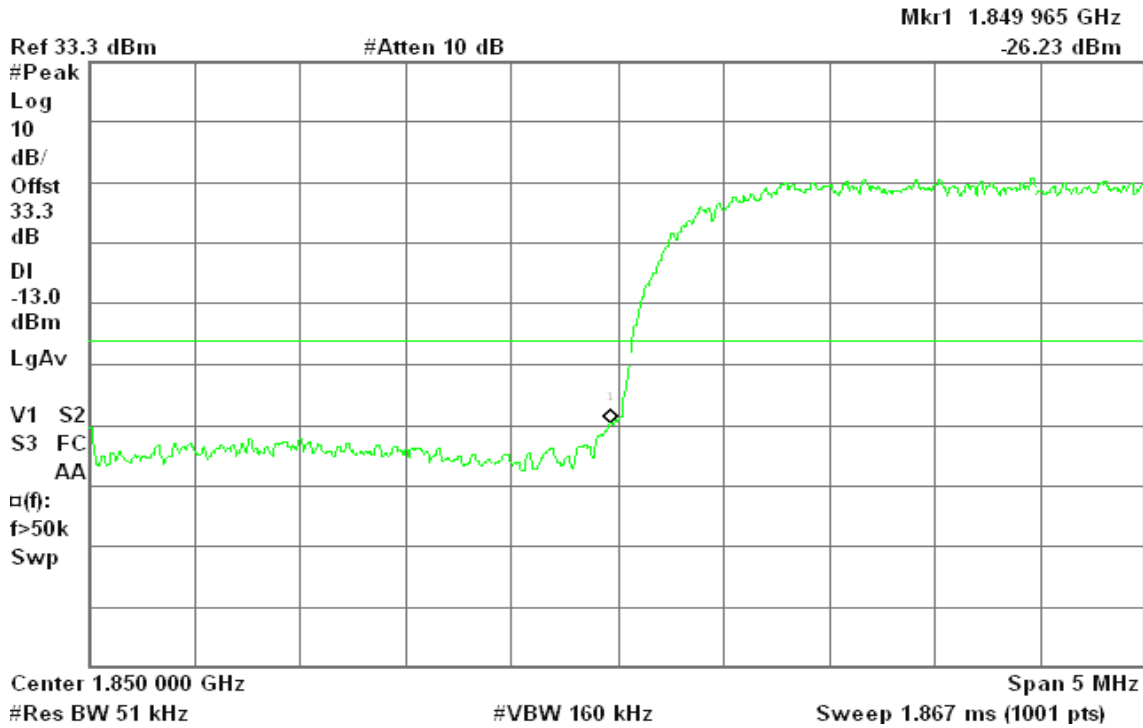
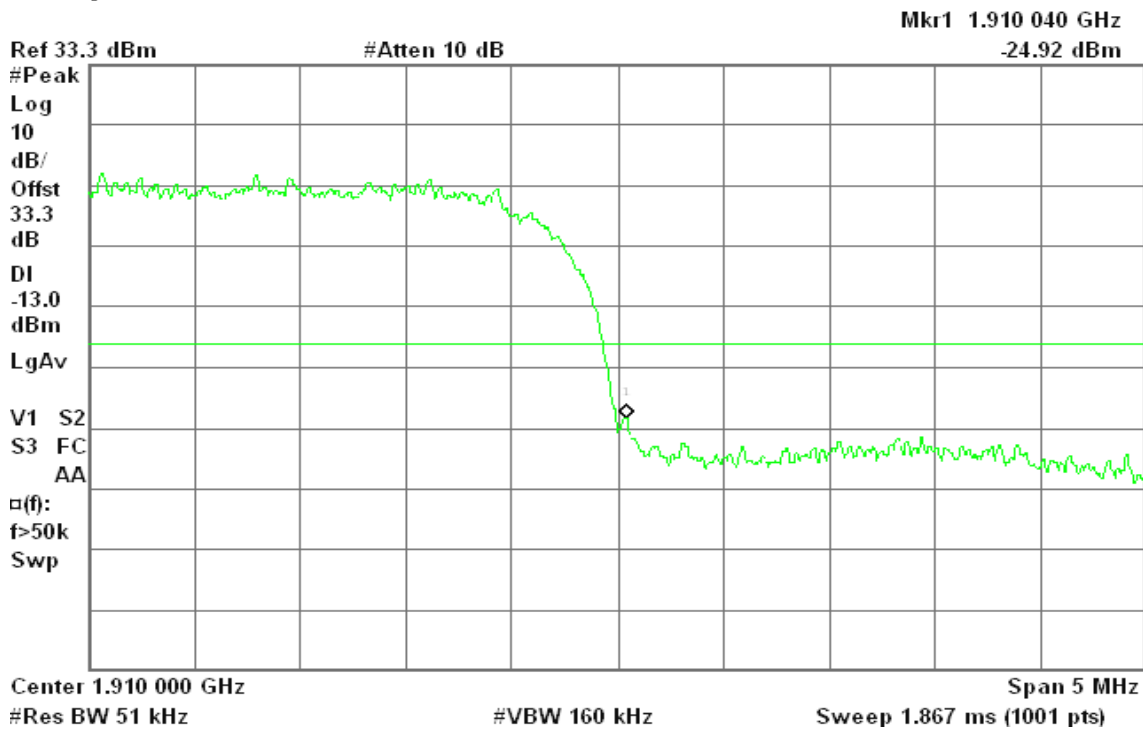


Figure 21-2: Band Edge emissions –WCDMA CH High

Agilent 21:01:43 Jun 3, 2010

R T





WCDMA Band V

Figure 22-1: Band Edge emissions –WCDMA CH Low

Agilent 21:10:03 Jun 3, 2010

R T

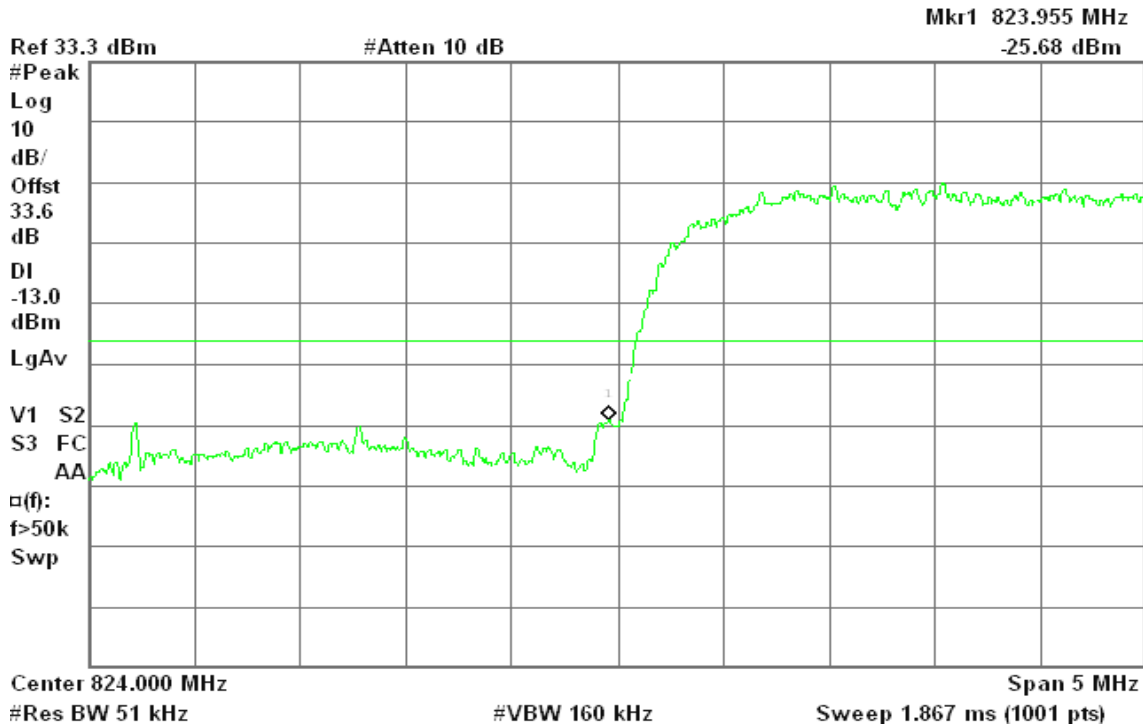
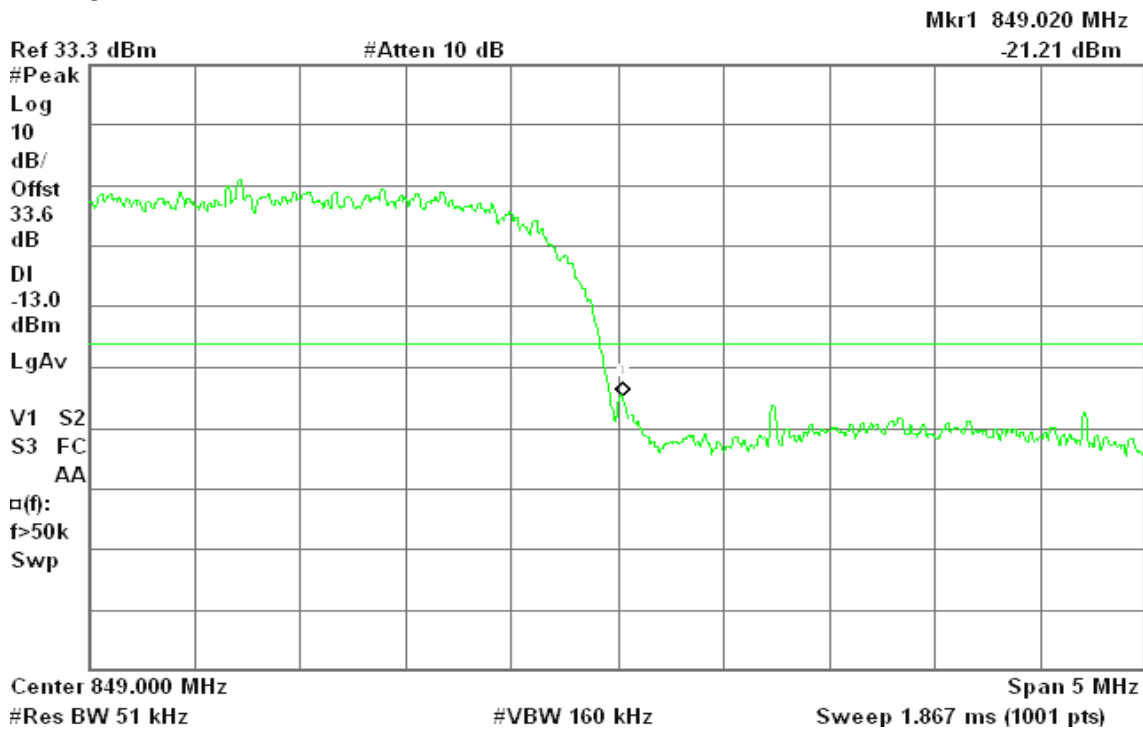


Figure 22-2: Band Edge emissions –WCDMA CH High

Agilent 21:12:51 Jun 3, 2010

R T





WCDMA / HSDPA Band II

Figure 23-1: Out of Band emission at antenna terminals – HSDPA CH Low

Agilent 21:04:18 Jun 3, 2010

R T

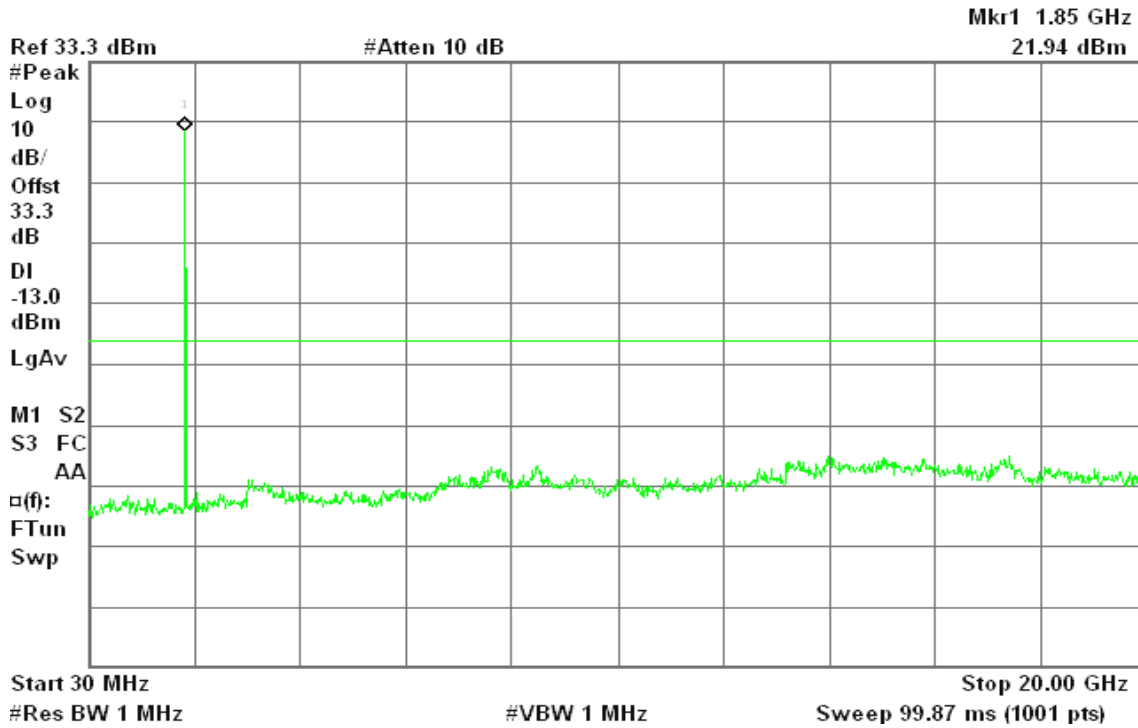


Figure 23-2: Out of Band emission at antenna terminals – HSDPA CH Mid

Agilent 21:03:09 Jun 3, 2010

R T

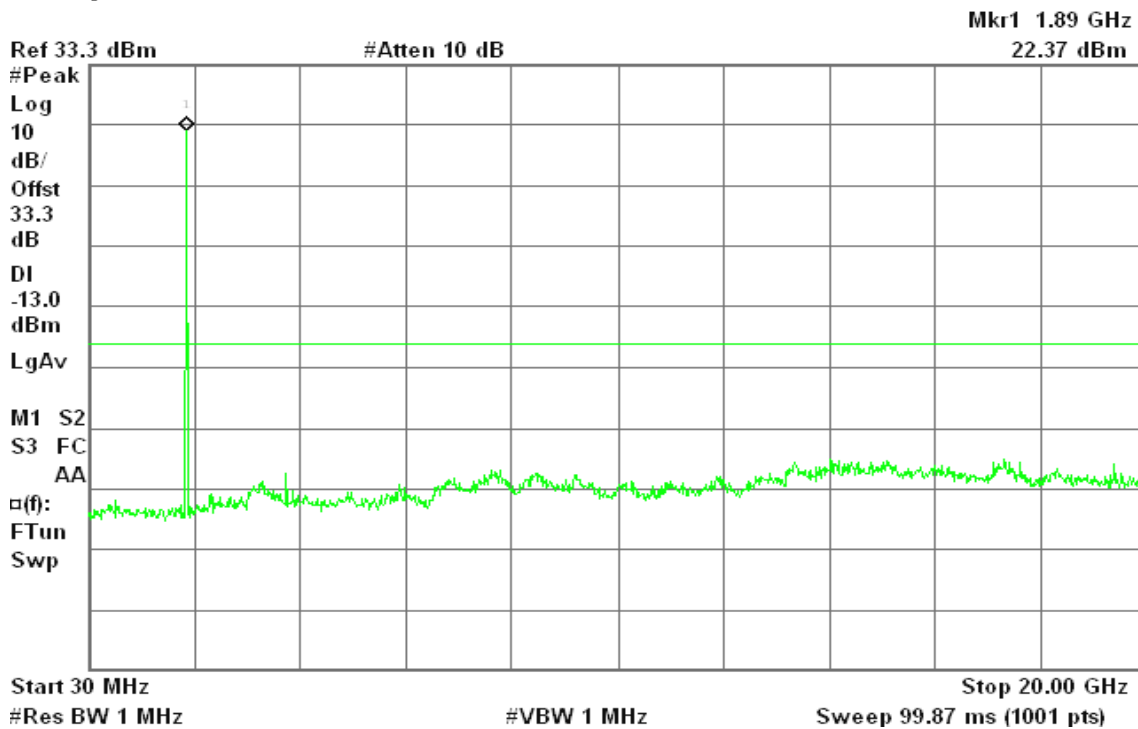
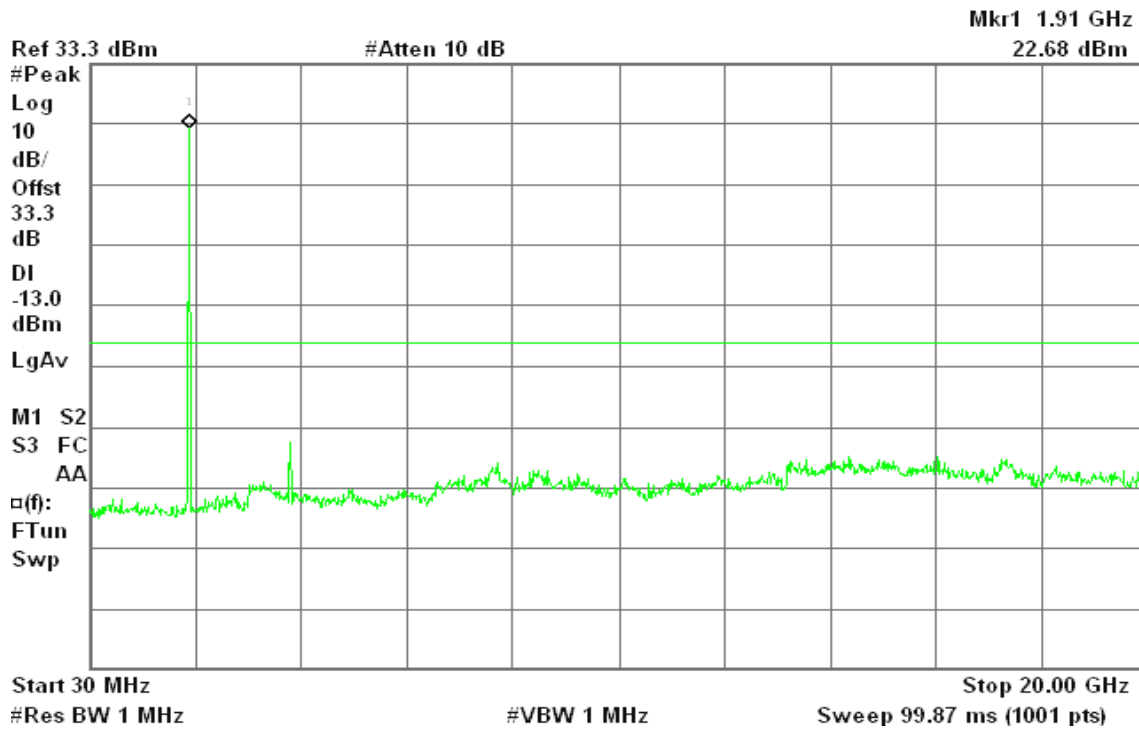




Figure 23-3: Out of Band emission at antenna terminals – HSDPA CH High

Agilent 21:02:45 Jun 3, 2010

R T



WCDMA / HSDPA Band V

Figure 24-1: Out of Band emission at antenna terminals – HSDPA CH Low

Agilent 21:06:47 Jun 3, 2010

R T

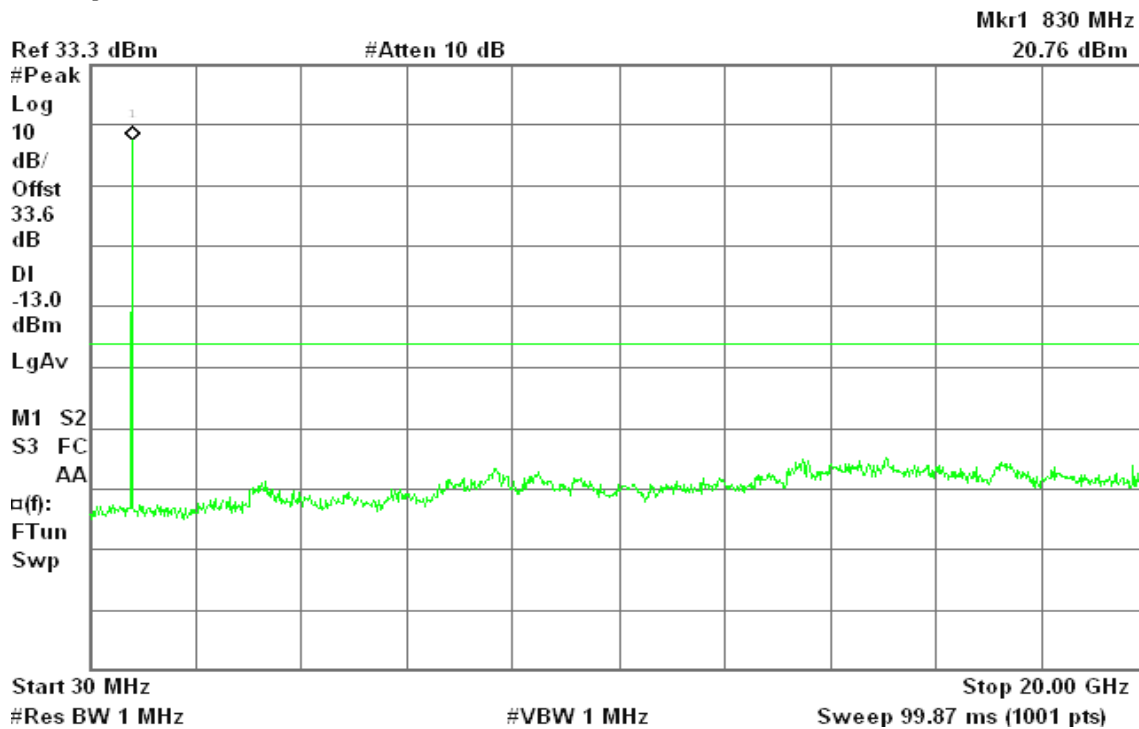




Figure 24-2: Out of Band emission at antenna terminals – HSDPA CH Mid

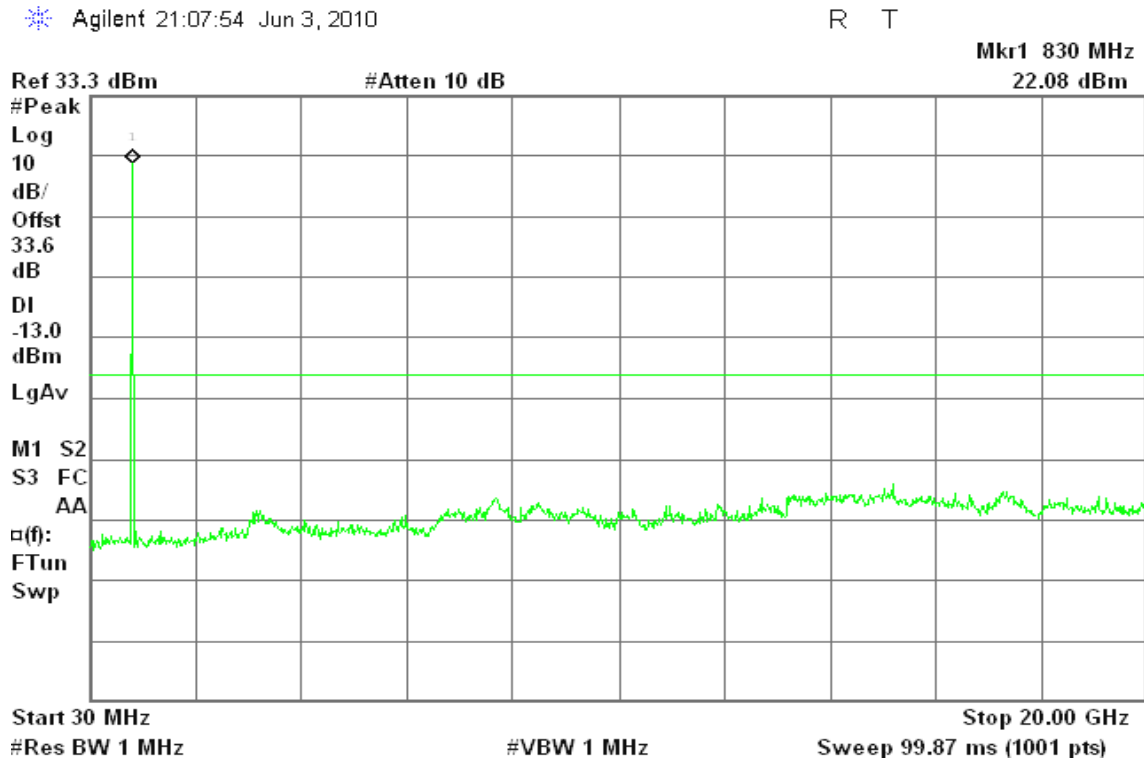
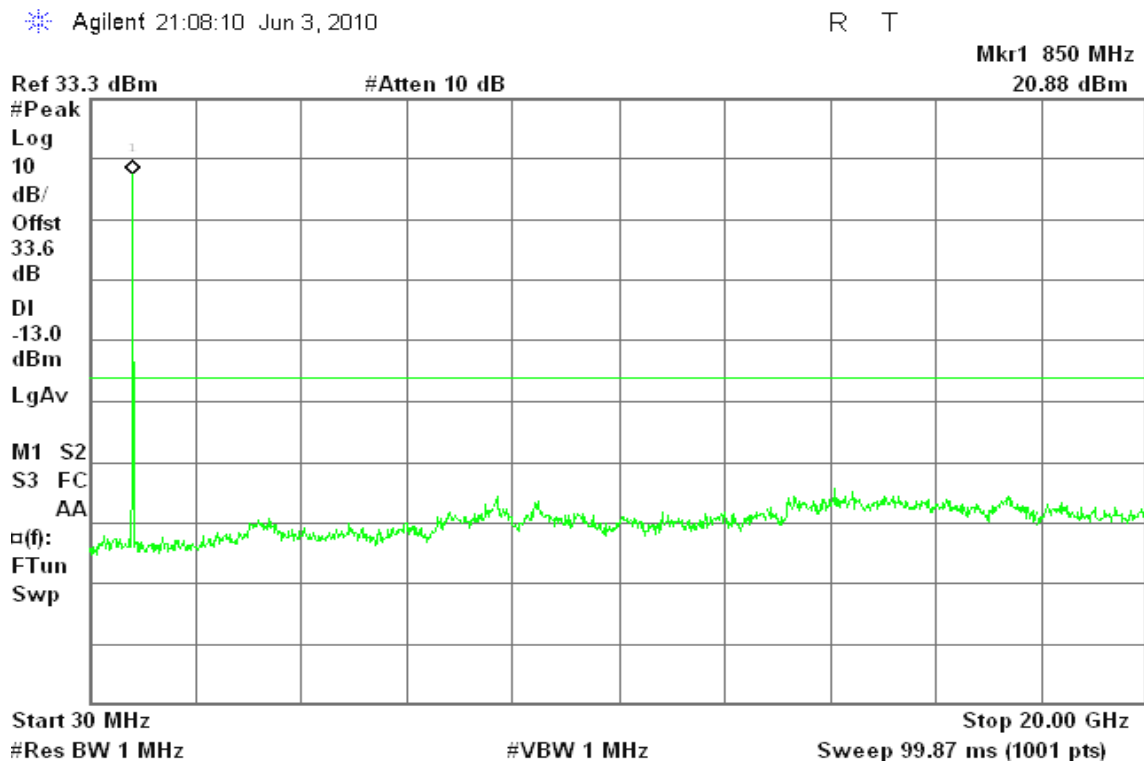


Figure 24-3: Out of Band emission at antenna terminals – HSDPA CH High





WCDMA / HSDPA Band II

Figure 25-1: Band Edge emissions – HSDPA CH Low

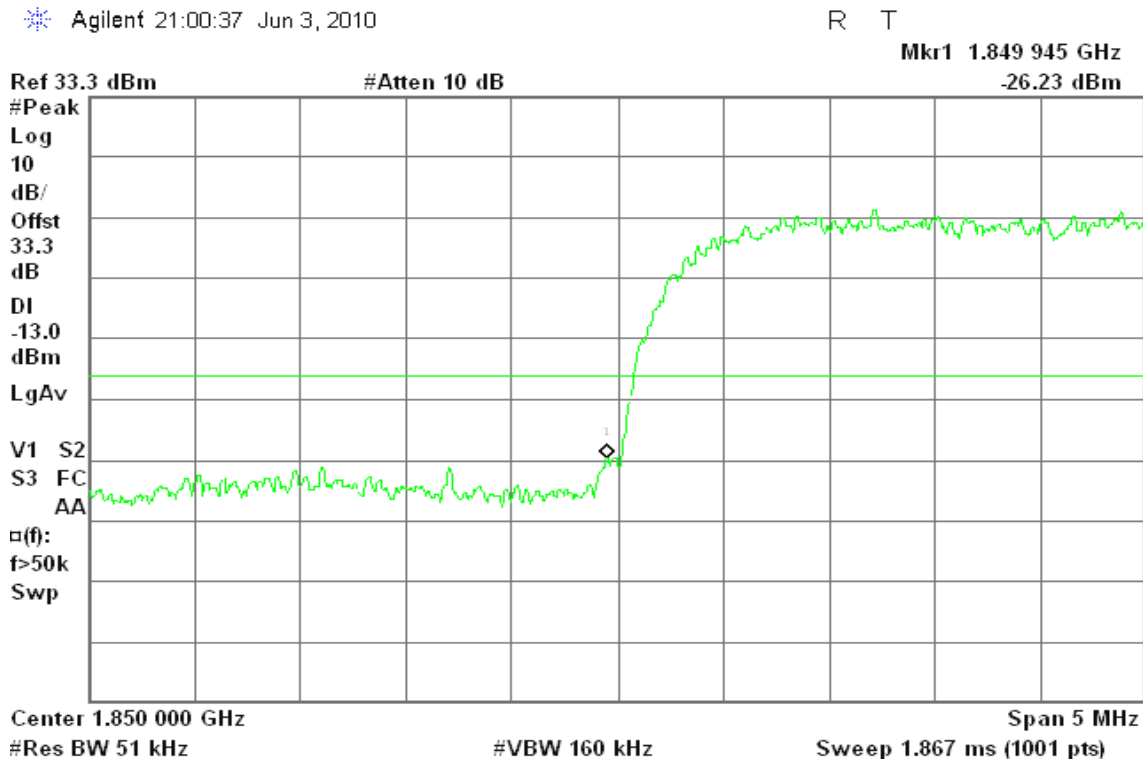
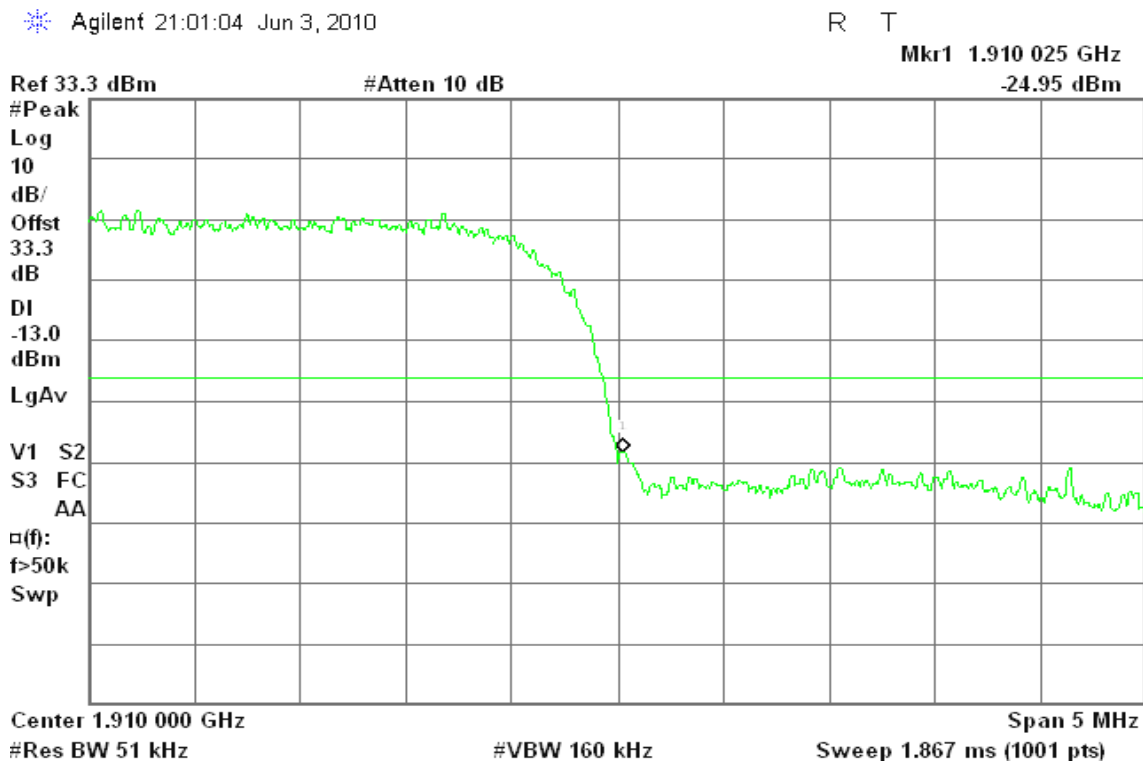


Figure 25-2: Band Edge emissions – HSDPA CH High





WCDMA / HSDPA Band V

Figure 26-1: Band Edge emissions – HSDPA CH Low

Agilent 21:11:10 Jun 3, 2010

R T

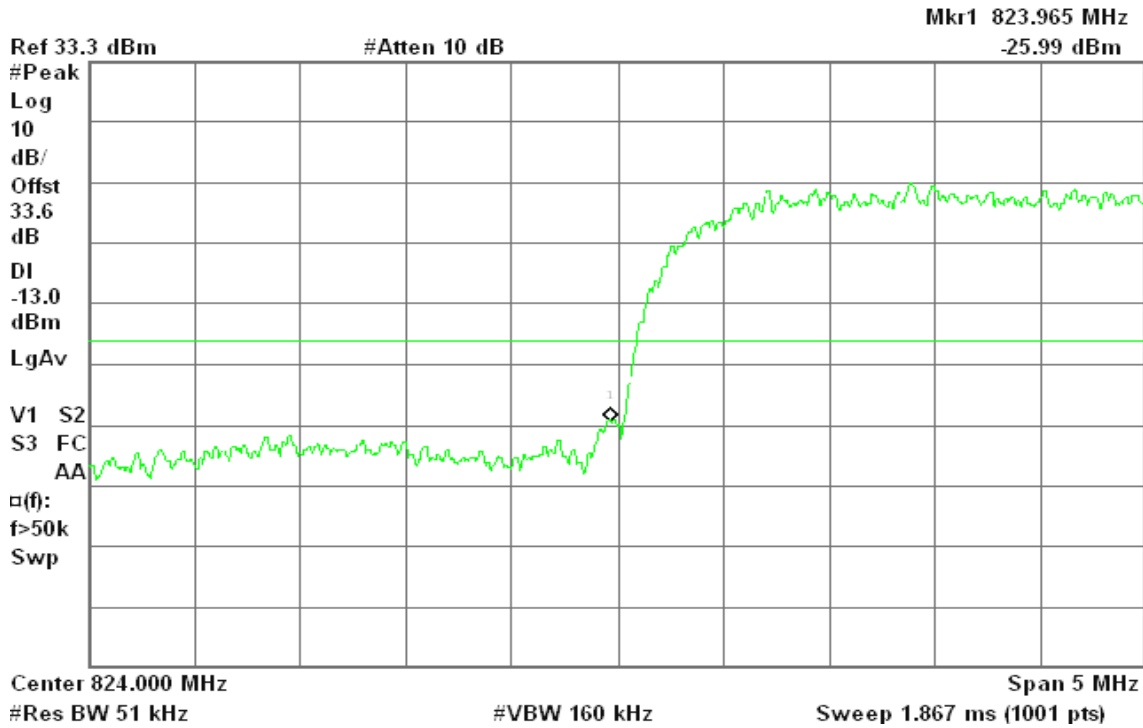
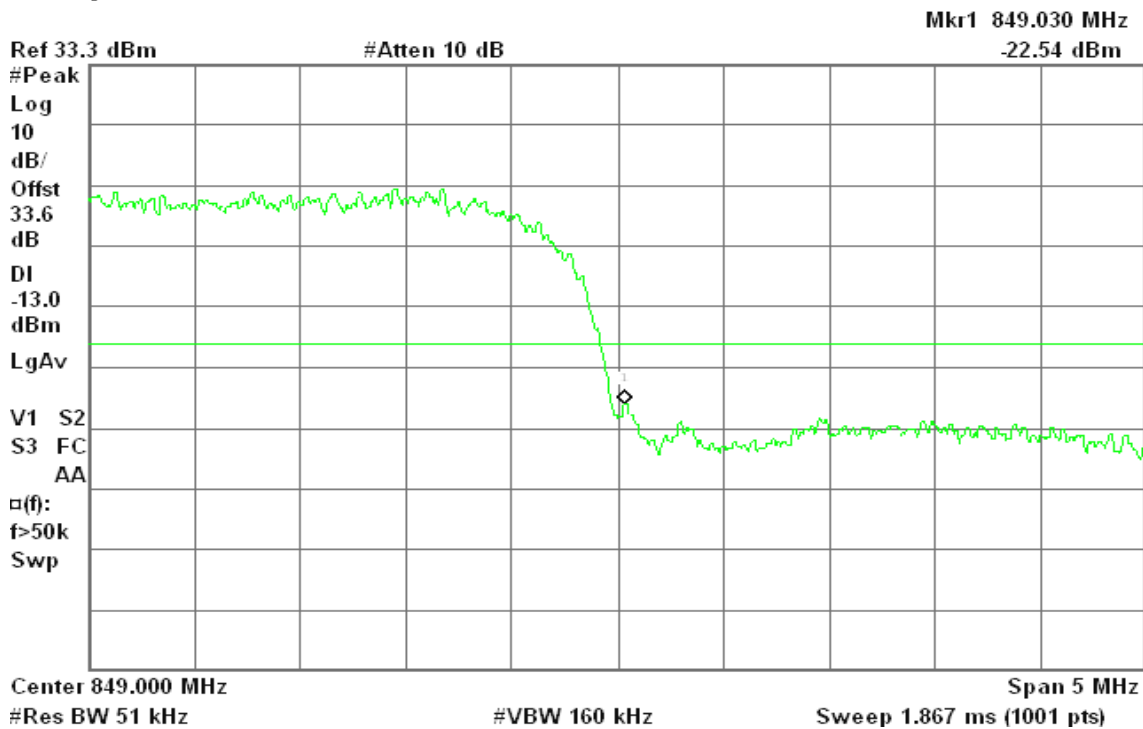


Figure 26-2: Band Edge emissions – HSDPA CH High

Agilent 21:12:11 Jun 3, 2010

R T





WCDMA / HSUPA Band II

Figure 27-1: Out of Band emission at antenna terminals – HSUPA CH Low

Agilent 21:04:42 Jun 3, 2010

R T

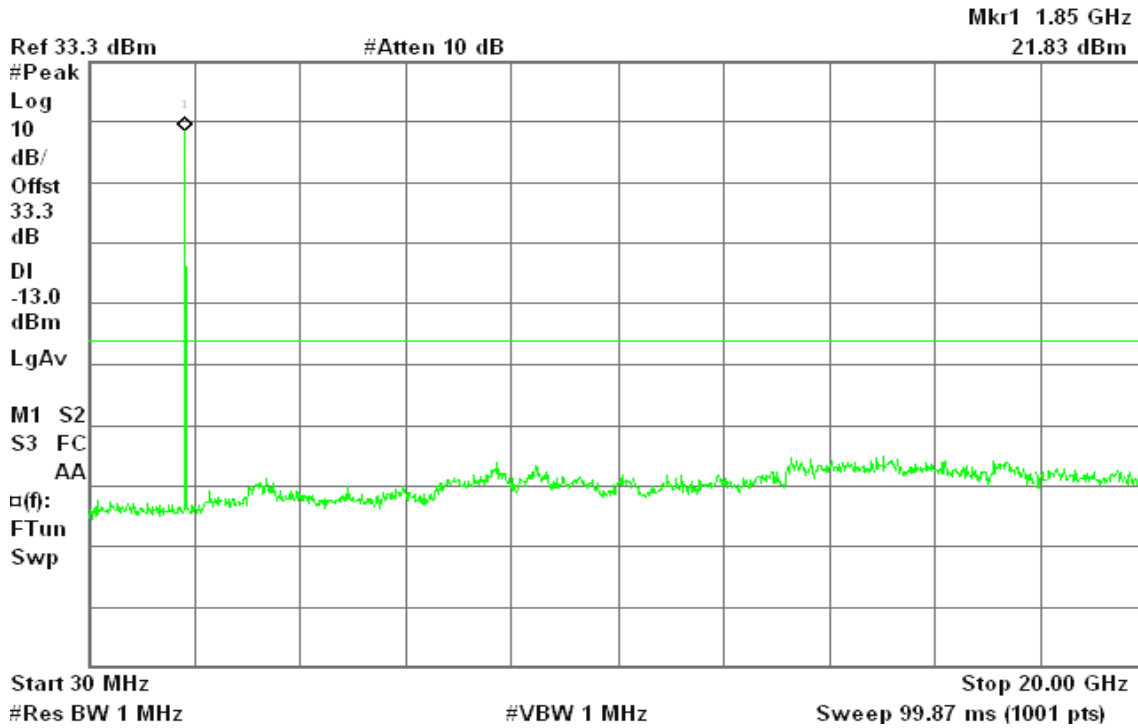


Figure 27-2: Out of Band emission at antenna terminals – HSUPA CH Mid

Agilent 21:03:20 Jun 3, 2010

R T

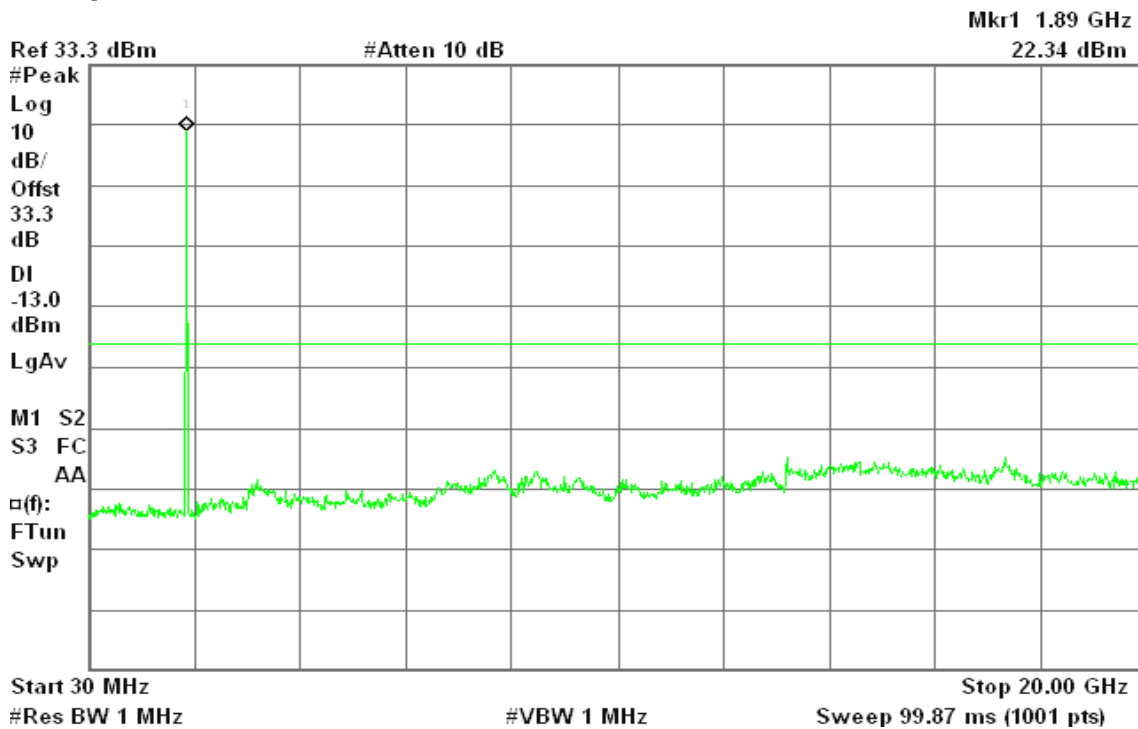
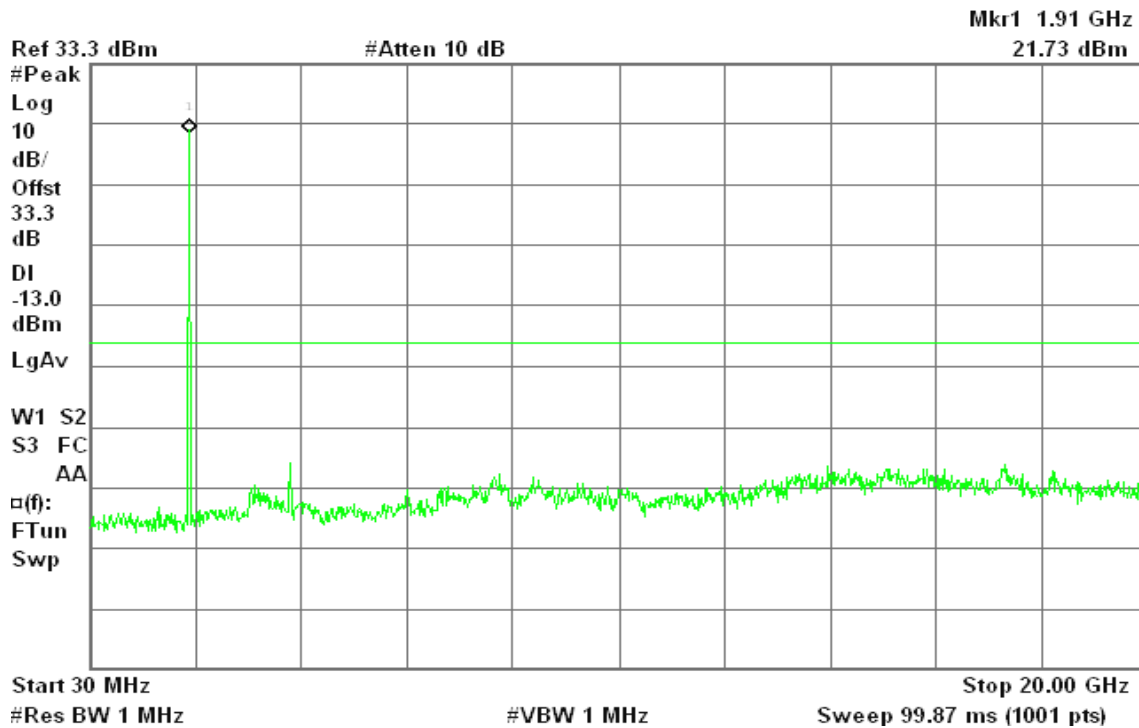




Figure 27-3: Out of Band emission at antenna terminals – HSUPA CH High

Agilent 21:02:32 Jun 3, 2010

R T



HSUPA / WCDMA Band V

Figure 28-1: Out of Band emission at antenna terminals – HSUPA CH Low

Agilent 21:06:57 Jun 3, 2010

R T

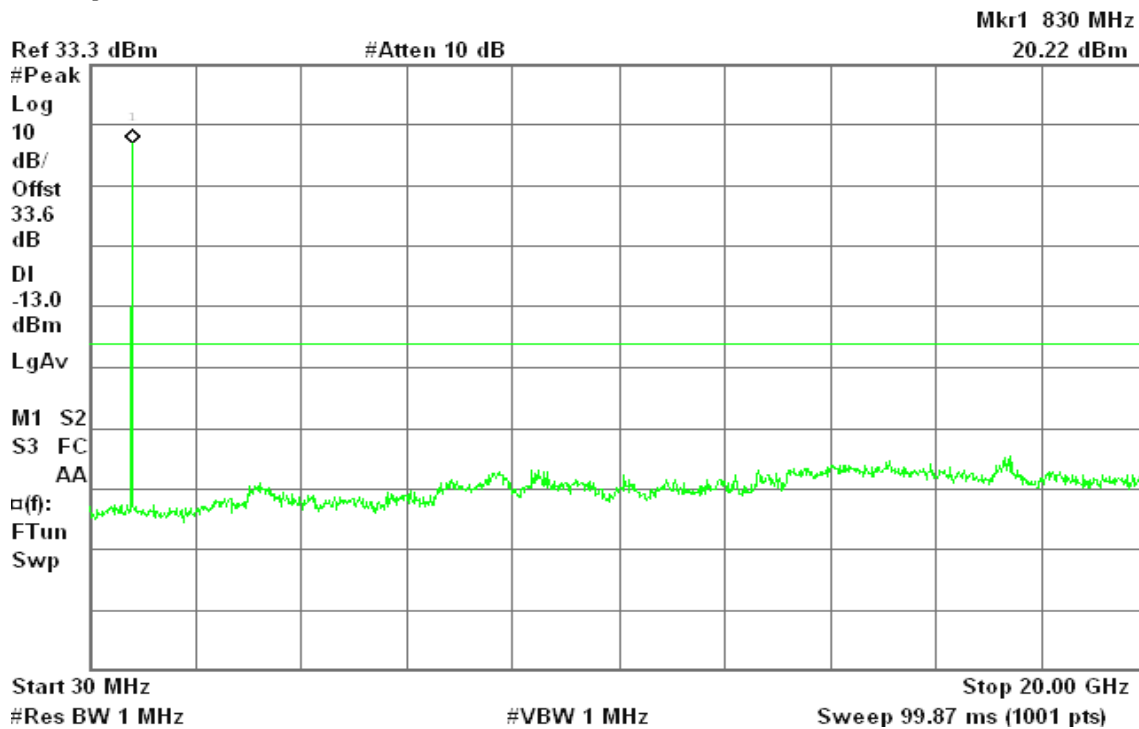




Figure 28-2: Out of Band emission at antenna terminals – HSUPA CH Mid

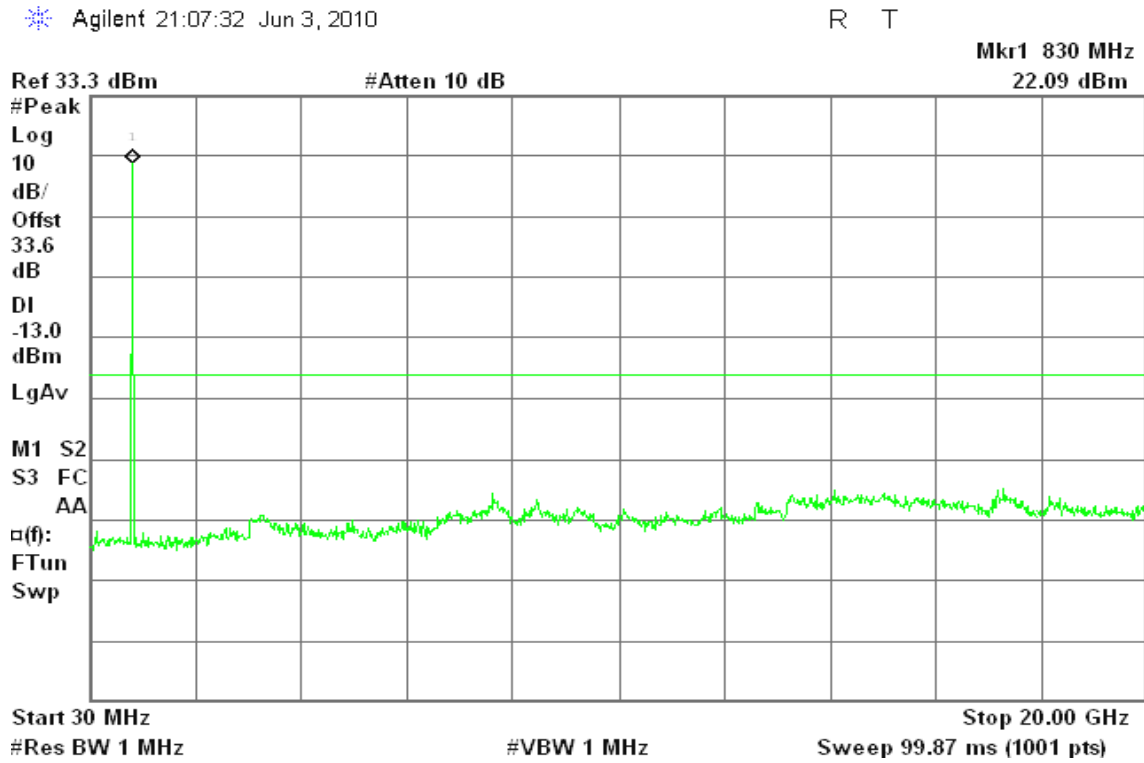
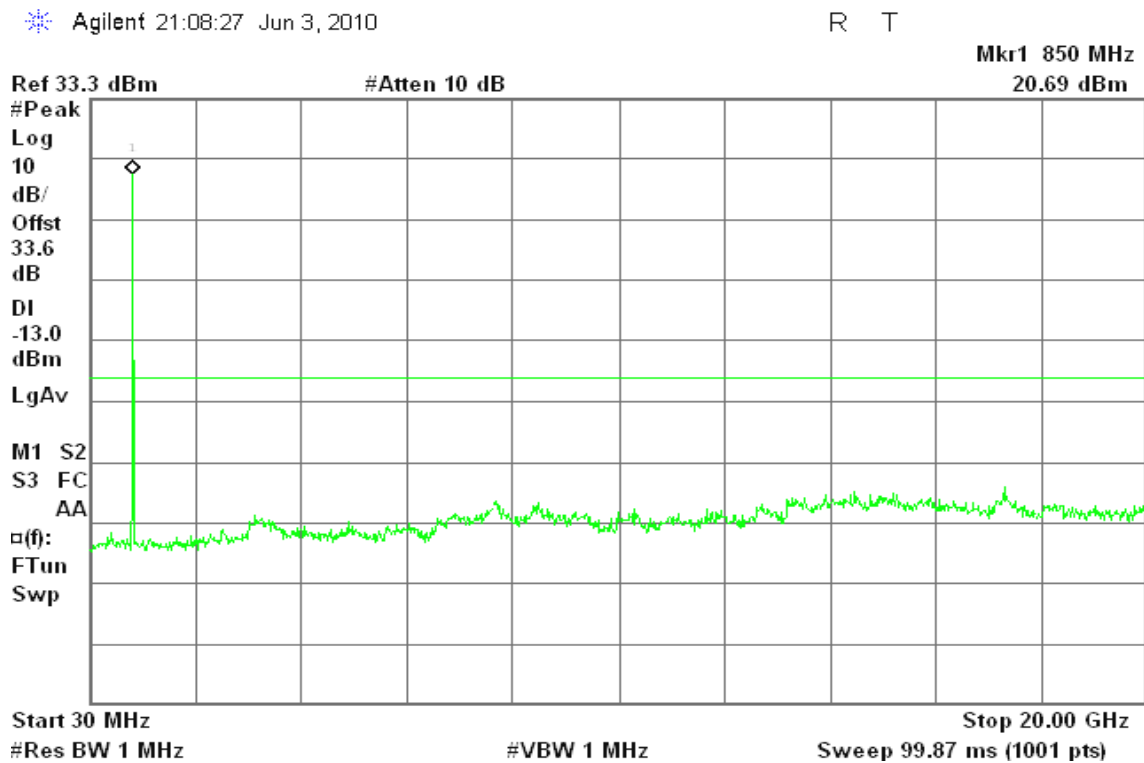


Figure 28-3: Out of Band emission at antenna terminals – HSUPA CH High





WCDMA / HSUPA Band II

Figure 29-1: Band Edge emissions – HSUPA CH Low

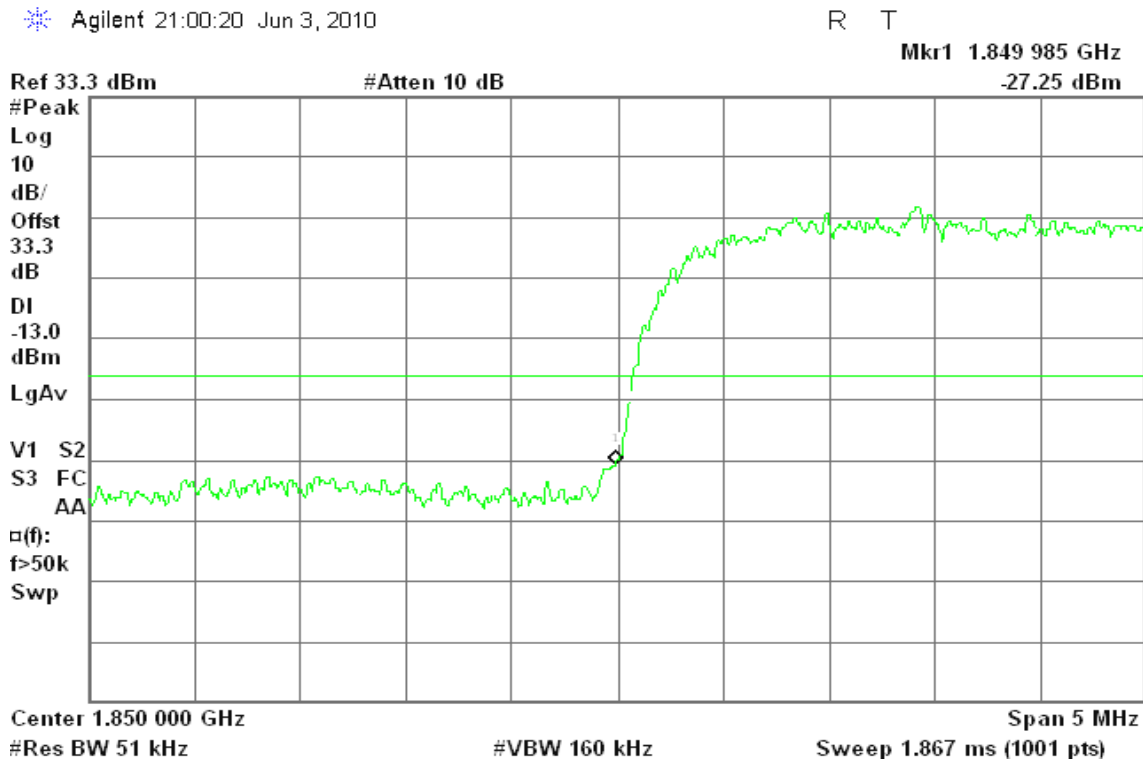
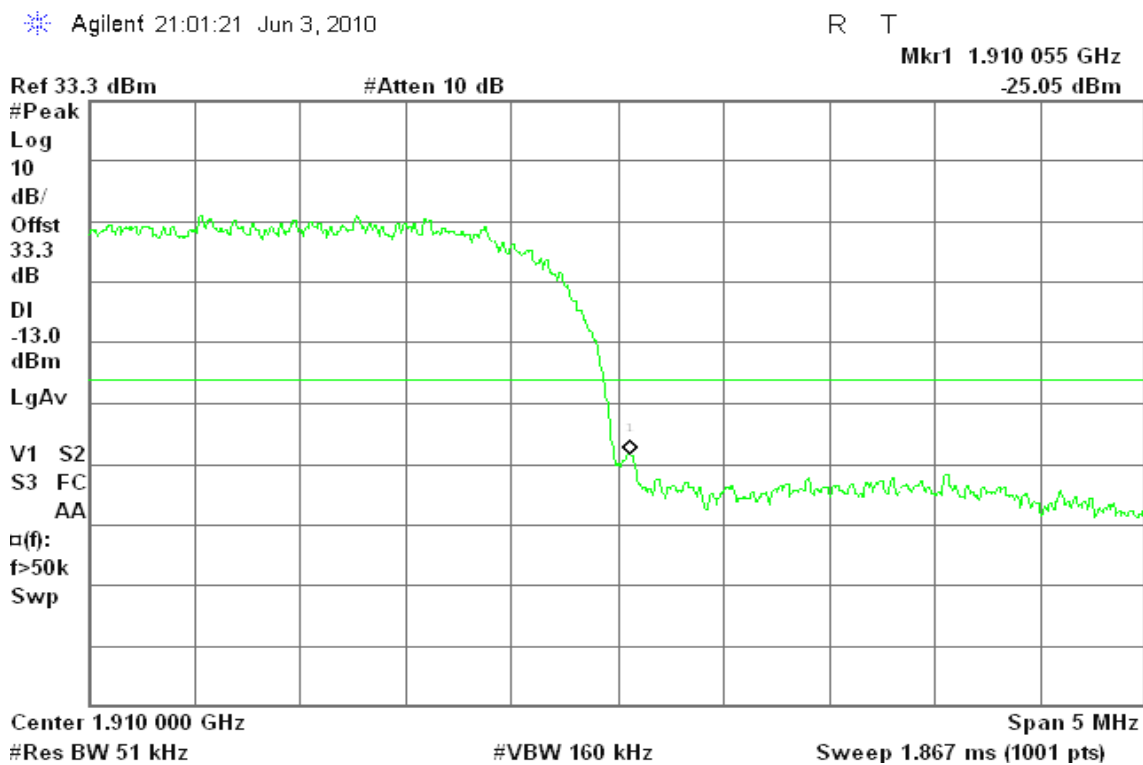


Figure 29-2: Band Edge emissions – HSUPA CH High





WCDMA / HSUPA Band V

Figure 30-1: Band Edge emissions – HSUPA CH Low

Agilent 21:10:23 Jun 3, 2010

R T

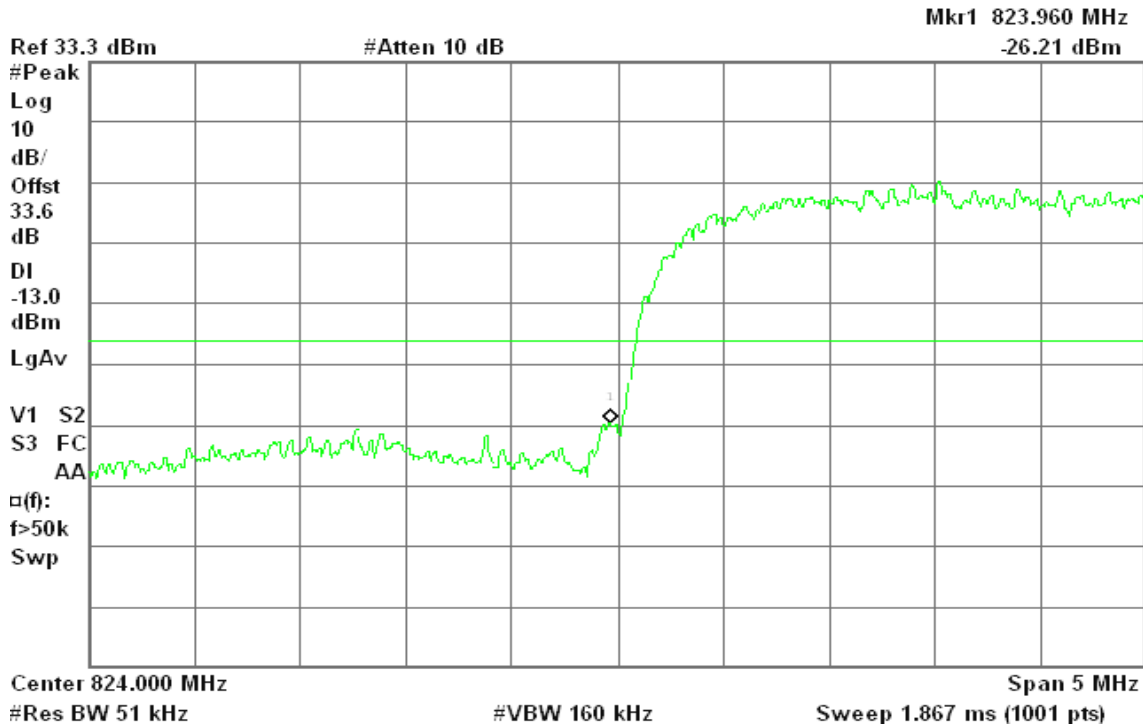
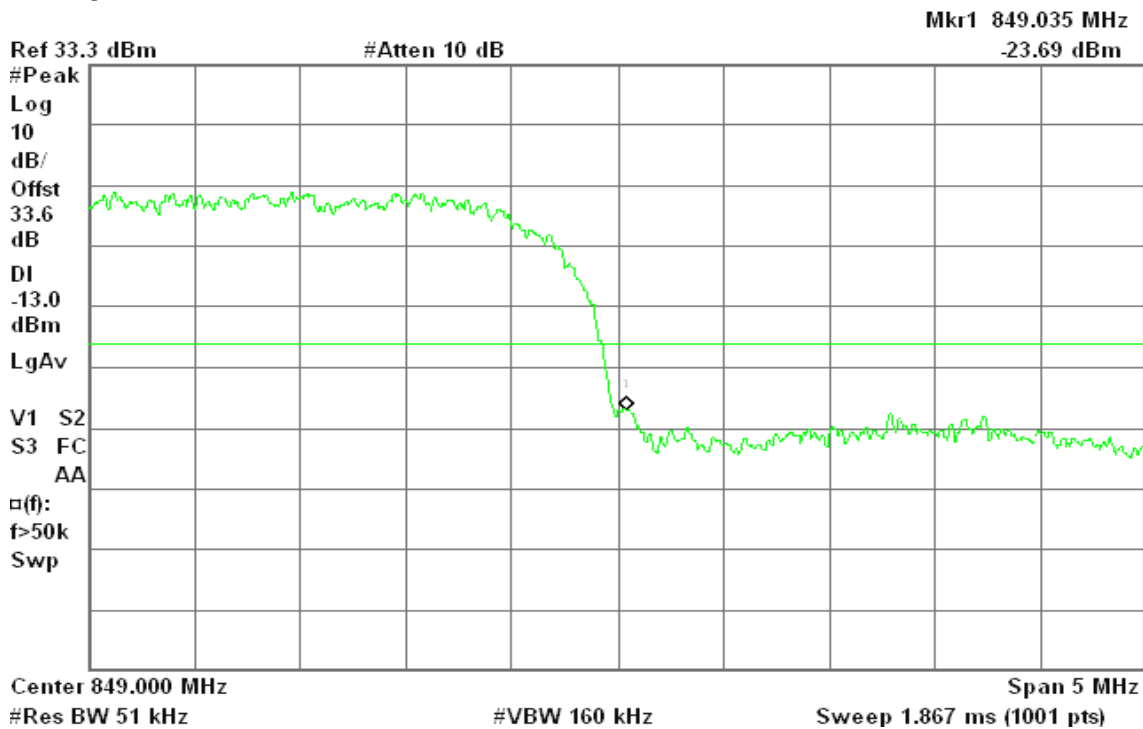


Figure 30-2: Band Edge emissions – HSUPA CH High

Agilent 21:11:49 Jun 3, 2010

R T





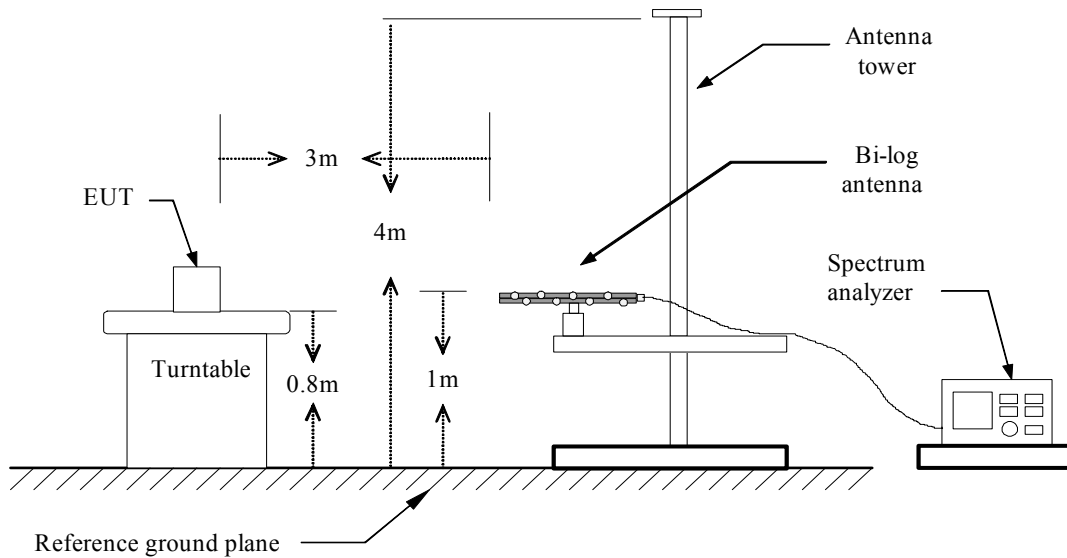
7.6 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

LIMIT

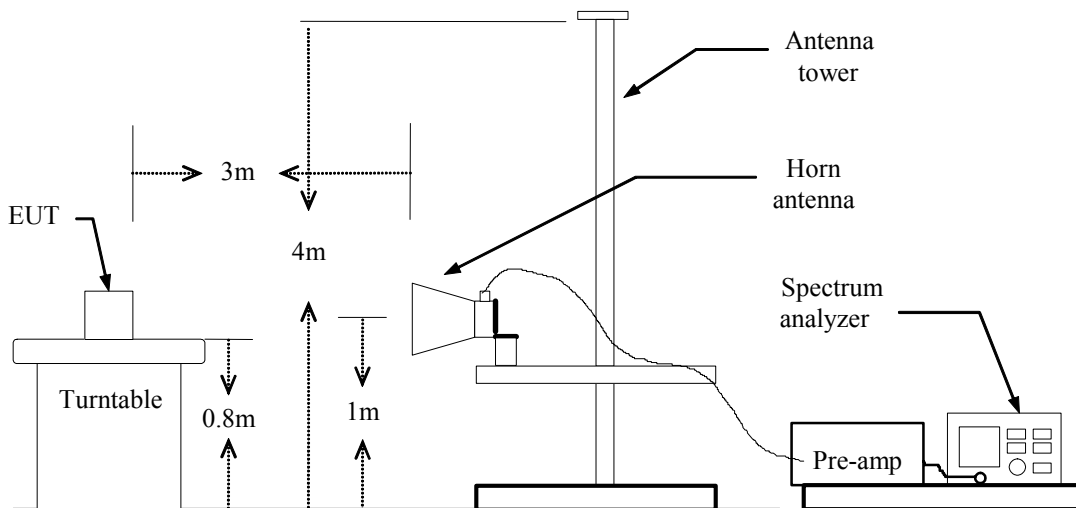
According to FCC §2.1053

Test Configuration

Below 1 GHz

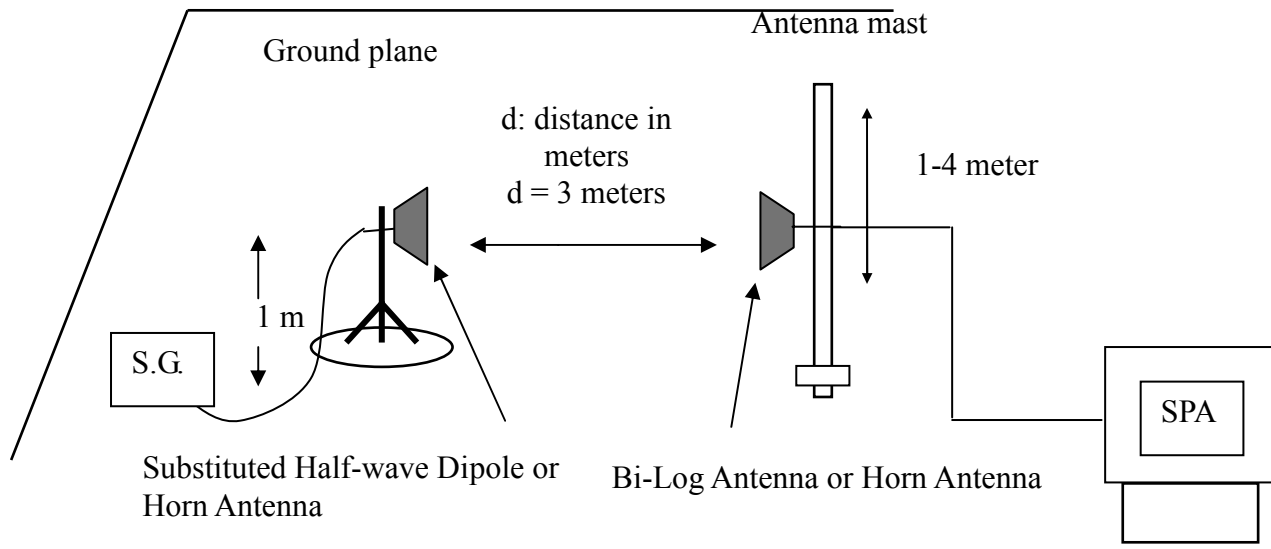


Above 1 GHz





Substituted Method Test Set-up



TEST PROCEDURE

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

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)}$$

TEST RESULTS

Refer to the attached tabular data sheets.



Radiated Spurious Emission Measurement Result / Below 1GHz

Operation Mode: GSM 850 / TX / CH 128

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
30.00	V	-49.96	-18.30	-68.26	-13.00	-55.26
83.35	V	-49.07	-20.14	-69.21	-13.00	-56.21
149.31	V	-56.84	-13.10	-69.94	-13.00	-56.94
240.49	V	-54.99	-14.30	-69.29	-13.00	-56.29
427.70	V	-65.75	-10.61	-76.36	-13.00	-63.36
566.41	V	-63.01	-7.94	-70.95	-13.00	-57.95
41.64	H	-64.31	-11.68	-75.99	-13.00	-62.99
145.43	H	-67.03	-14.25	-81.27	-13.00	-68.27
198.78	H	-68.69	-13.47	-82.16	-13.00	-69.16
376.29	H	-67.04	-12.23	-79.27	-13.00	-66.27
562.53	H	-69.14	-7.79	-76.93	-13.00	-63.93
652.74	H	-69.03	-6.65	-75.68	-13.00	-62.68

Remark:

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GSM 850 / TX / CH 190

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
42.61	V	-63.82	-12.79	-76.61	-13.00	-63.61
127.00	V	-67.11	-13.03	-80.14	-13.00	-67.14
144.46	V	-67.00	-13.30	-80.29	-13.00	-67.29
269.59	V	-67.87	-12.88	-80.75	-13.00	-67.75
488.81	V	-68.81	-8.86	-77.67	-13.00	-64.67
777.87	V	-68.24	-5.29	-73.53	-13.00	-60.53
44.55	H	-63.57	-11.72	-75.29	-13.00	-62.29
118.27	H	-66.15	-14.40	-80.55	-13.00	-67.55
171.62	H	-67.04	-13.82	-80.86	-13.00	-67.86
508.21	H	-70.18	-8.70	-78.89	-13.00	-65.89
638.19	H	-68.85	-6.64	-75.50	-13.00	-62.50
744.89	H	-69.23	-5.65	-74.88	-13.00	-61.88

Remark:

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GSM 850 / TX / CH 251

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
30.00	V	-50.58	-18.30	-68.88	-13.00	-55.88
94.02	V	-50.76	-19.77	-70.52	-13.00	-57.52
139.61	V	-57.70	-13.45	-71.15	-13.00	-58.15
243.40	V	-54.76	-14.44	-69.20	-13.00	-56.20
277.35	V	-57.51	-12.31	-69.82	-13.00	-56.82
566.41	V	-65.54	-7.94	-73.48	-13.00	-60.48
43.58	H	-64.19	-11.71	-75.90	-13.00	-62.90
144.46	H	-66.63	-14.33	-80.96	-13.00	-67.96
199.75	H	-67.17	-13.37	-80.55	-13.00	-67.55
244.37	H	-67.61	-14.09	-81.71	-13.00	-68.71
288.99	H	-67.84	-13.11	-80.96	-13.00	-67.96
455.83	H	-68.31	-9.76	-78.07	-13.00	-65.07

Remark:

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GPRS 850 / TX / CH 128

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
37.76	V	-49.59	-13.86	-63.45	-13.00	-50.45
85.29	V	-43.07	-20.36	-63.43	-13.00	-50.43
166.77	V	-53.50	-14.49	-67.99	-13.00	-54.99
183.26	V	-51.73	-15.31	-67.03	-13.00	-54.03
252.13	V	-53.91	-14.68	-68.59	-13.00	-55.59
287.05	V	-57.41	-12.09	-69.50	-13.00	-56.50
85.29	H	-44.41	-21.28	-65.69	-13.00	-52.69
103.72	H	-48.94	-17.34	-66.27	-13.00	-53.27
166.77	H	-50.75	-13.96	-64.71	-13.00	-51.71
240.49	H	-54.04	-13.67	-67.71	-13.00	-54.71
366.59	H	-58.30	-12.73	-71.03	-13.00	-58.03
566.41	H	-58.17	-7.81	-65.98	-13.00	-52.98

Remark:

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GPRS 850 / TX / CH 190

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39.70	V	-51.05	-12.78	-63.83	-13.00	-50.83
86.26	V	-43.82	-20.48	-64.30	-13.00	-51.30
166.77	V	-53.23	-14.49	-67.72	-13.00	-54.72
180.35	V	-51.61	-15.28	-66.90	-13.00	-53.90
242.43	V	-54.03	-14.40	-68.43	-13.00	-55.43
566.41	V	-62.68	-7.94	-70.62	-13.00	-57.62
85.29	H	-51.58	-21.28	-72.86	-13.00	-59.86
148.34	H	-56.22	-14.00	-70.22	-13.00	-57.22
166.77	H	-55.43	-13.96	-69.39	-13.00	-56.39
235.64	H	-55.63	-14.01	-69.64	-13.00	-56.64
366.59	H	-61.72	-12.73	-74.45	-13.00	-61.45
566.41	H	-65.40	-7.81	-73.21	-13.00	-60.21

Remark:

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GPRS 850 / TX / CH 251

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39.70	V	-51.39	-12.78	-64.17	-13.00	-51.17
82.38	V	-45.15	-20.02	-65.17	-13.00	-52.17
166.77	V	-53.98	-14.49	-68.47	-13.00	-55.47
182.29	V	-52.44	-15.30	-67.74	-13.00	-54.74
243.40	V	-55.21	-14.44	-69.65	-13.00	-56.65
566.41	V	-63.48	-7.94	-71.42	-13.00	-58.42
42.61	H	-63.06	-11.70	-74.76	-13.00	-61.76
118.27	H	-65.72	-14.40	-80.12	-13.00	-67.12
275.41	H	-66.67	-13.42	-80.09	-13.00	-67.09
628.49	H	-68.00	-6.76	-74.76	-13.00	-61.76
705.12	H	-68.31	-6.50	-74.80	-13.00	-61.80
740.04	H	-68.61	-5.66	-74.27	-13.00	-61.27

Remark:

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GSM 1900 / TX / CH 512

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
43.58	V	-64.05	-12.85	-76.90	-13.00	-63.90
132.82	V	-67.19	-12.93	-80.12	-13.00	-67.12
284.14	V	-67.88	-12.11	-79.98	-13.00	-66.98
440.31	V	-68.45	-10.26	-78.71	-13.00	-65.71
566.41	V	-69.16	-7.94	-77.10	-13.00	-64.10
857.41	V	-69.13	-4.47	-73.60	-13.00	-60.60
45.52	H	-63.70	-12.08	-75.78	-13.00	-62.78
119.24	H	-66.00	-14.19	-80.19	-13.00	-67.19
384.05	H	-66.75	-11.97	-78.72	-13.00	-65.72
472.32	H	-68.18	-9.21	-77.39	-13.00	-64.39
813.76	H	-69.42	-4.94	-74.36	-13.00	-61.36
904.94	H	-70.64	-3.74	-74.38	-13.00	-61.38

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GSM 1900 / TX / CH 661

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
30.00	V	-49.31	-18.30	-67.61	-13.00	-54.61
102.75	V	-50.47	-17.49	-67.96	-13.00	-54.96
147.37	V	-57.04	-13.18	-70.21	-13.00	-57.21
166.77	V	-56.69	-14.49	-71.18	-13.00	-58.18
182.29	V	-56.32	-15.30	-71.62	-13.00	-58.62
243.40	V	-53.42	-14.44	-67.87	-13.00	-54.87
40.67	H	-63.19	-11.67	-74.85	-13.00	-61.85
135.73	H	-66.00	-14.45	-80.45	-13.00	-67.45
169.68	H	-66.89	-13.75	-80.64	-13.00	-67.64
425.76	H	-68.00	-10.49	-78.49	-13.00	-65.49
762.35	H	-68.91	-5.58	-74.49	-13.00	-61.49
887.48	H	-68.97	-3.80	-72.76	-13.00	-59.76

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GSM 1900 / TX / CH 810

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39.70	V	-63.24	-12.78	-76.02	-13.00	-63.02
142.52	V	-66.57	-13.38	-79.95	-13.00	-66.95
280.26	V	-68.00	-12.13	-80.13	-13.00	-67.13
531.49	V	-68.55	-8.33	-76.88	-13.00	-63.88
623.64	V	-69.43	-6.87	-76.30	-13.00	-63.30
773.99	V	-69.08	-5.38	-74.47	-13.00	-61.47
43.58	H	-62.80	-11.71	-74.51	-13.00	-61.51
140.58	H	-66.99	-14.66	-81.65	-13.00	-68.65
165.80	H	-67.32	-14.03	-81.35	-13.00	-68.35
240.49	H	-67.79	-13.67	-81.46	-13.00	-68.46
810.85	H	-69.43	-4.99	-74.42	-13.00	-61.42
844.80	H	-68.90	-4.65	-73.55	-13.00	-60.55

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GPRS 1900 / TX / CH 512

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
38.73	V	-55.46	-13.32	-68.78	-13.00	-55.78
101.78	V	-47.79	-17.69	-65.48	-13.00	-52.48
141.55	V	-56.27	-13.42	-69.68	-13.00	-56.68
244.37	V	-53.69	-14.49	-68.18	-13.00	-55.18
286.08	V	-56.75	-12.09	-68.84	-13.00	-55.84
566.41	V	-63.94	-7.94	-71.89	-13.00	-58.89
44.55	H	-63.84	-11.72	-75.56	-13.00	-62.56
129.91	H	-67.41	-14.09	-81.50	-13.00	-68.50
200.72	H	-67.80	-13.48	-81.28	-13.00	-68.28
287.05	H	-68.36	-13.11	-81.46	-13.00	-68.46
637.22	H	-69.36	-6.65	-76.02	-13.00	-63.02
982.54	H	-70.06	-3.00	-73.06	-13.00	-60.06

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GPRS 1900 / TX / CH 661

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
41.64	V	-63.98	-12.72	-76.71	-13.00	-63.71
68.80	V	-64.90	-15.67	-80.57	-13.00	-67.57
123.12	V	-67.15	-13.43	-80.58	-13.00	-67.58
287.05	V	-67.91	-12.09	-80.00	-13.00	-67.00
587.75	V	-68.47	-7.85	-76.31	-13.00	-63.31
645.95	V	-68.60	-6.69	-75.28	-13.00	-62.28
40.67	H	-63.54	-11.67	-75.21	-13.00	-62.21
143.49	H	-66.89	-14.41	-81.30	-13.00	-68.30
239.52	H	-67.72	-13.66	-81.39	-13.00	-68.39
359.80	H	-66.66	-13.08	-79.74	-13.00	-66.74
472.32	H	-68.94	-9.21	-78.14	-13.00	-65.14
661.47	H	-69.11	-6.66	-75.77	-13.00	-62.77

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GPRS 1900 / TX / CH 810

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
37.76	V	-53.19	-13.86	-67.05	-13.00	-54.05
101.78	V	-48.00	-17.69	-65.68	-13.00	-52.68
148.34	V	-55.85	-13.14	-68.98	-13.00	-55.98
252.13	V	-53.80	-14.68	-68.49	-13.00	-55.49
288.99	V	-56.21	-12.08	-68.28	-13.00	-55.28
566.41	V	-63.49	-7.94	-71.43	-13.00	-58.43
45.52	H	-63.23	-12.08	-75.32	-13.00	-62.32
182.29	H	-67.45	-14.28	-81.72	-13.00	-68.72
271.53	H	-67.92	-13.72	-81.64	-13.00	-68.64
429.64	H	-68.44	-10.45	-78.89	-13.00	-65.89
748.77	H	-69.47	-5.64	-75.12	-13.00	-62.12
859.35	H	-69.29	-4.43	-73.72	-13.00	-60.72

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: EDGE 850 / TX / CH 128

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mimic Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
43.58	V	-63.98	-12.85	-76.84	-13.00	-63.84
119.24	V	-66.32	-13.92	-80.24	-13.00	-67.24
148.34	V	-66.31	-13.14	-79.45	-13.00	-66.45
285.11	V	-68.15	-12.10	-80.25	-13.00	-67.25
454.86	V	-67.91	-9.91	-77.81	-13.00	-64.81
625.58	V	-68.85	-6.84	-75.70	-13.00	-62.70
44.55	H	-62.64	-11.72	-74.36	-13.00	-61.36
150.28	H	-66.87	-13.88	-80.75	-13.00	-67.75
202.66	H	-67.81	-13.84	-81.66	-13.00	-68.66
414.12	H	-67.06	-10.88	-77.94	-13.00	-64.94
447.10	H	-68.45	-10.08	-78.53	-13.00	-65.53
484.93	H	-68.38	-8.92	-77.30	-13.00	-64.30

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: EDGE 850 / TX / CH 190

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39.70	V	-54.13	-12.78	-66.90	-13.00	-53.90
97.90	V	-49.19	-18.65	-67.84	-13.00	-54.84
181.32	V	-57.08	-15.29	-72.37	-13.00	-59.37
244.37	V	-57.70	-14.49	-72.19	-13.00	-59.19
303.54	V	-60.20	-13.63	-73.84	-13.00	-60.84
566.41	V	-64.70	-7.94	-72.64	-13.00	-59.64
44.55	H	-63.37	-11.72	-75.09	-13.00	-62.09
201.69	H	-67.64	-13.66	-81.31	-13.00	-68.31
237.58	H	-67.70	-13.84	-81.54	-13.00	-68.54
389.87	H	-67.02	-11.88	-78.89	-13.00	-65.89
559.62	H	-68.62	-7.79	-76.41	-13.00	-63.41
612.00	H	-68.99	-7.21	-76.20	-13.00	-63.20

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: EDGE 850 / TX / CH 251

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
39.70	V	-52.30	-12.78	-65.08	-13.00	-52.08
83.35	V	-45.32	-20.14	-65.46	-13.00	-52.46
101.78	V	-48.57	-17.69	-66.26	-13.00	-53.26
167.74	V	-54.12	-14.52	-68.64	-13.00	-55.64
181.32	V	-52.52	-15.29	-67.81	-13.00	-54.81
244.37	V	-55.96	-14.49	-70.45	-13.00	-57.45
41.64	H	-63.10	-11.68	-74.78	-13.00	-61.78
120.21	H	-67.17	-14.02	-81.19	-13.00	-68.19
200.72	H	-67.65	-13.48	-81.13	-13.00	-68.13
397.63	H	-67.29	-11.75	-79.04	-13.00	-66.04
533.43	H	-68.74	-8.38	-77.13	-13.00	-64.13
588.72	H	-69.11	-7.81	-76.92	-13.00	-63.92

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: EDGE 1900 / TX / CH 512

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
40.67	V	-63.85	-12.66	-76.51	-13.00	-63.51
70.74	V	-64.99	-15.92	-80.91	-13.00	-67.91
150.28	V	-66.59	-13.10	-79.70	-13.00	-66.70
276.38	V	-67.94	-12.38	-80.32	-13.00	-67.32
640.13	V	-69.35	-6.62	-75.97	-13.00	-62.97
675.05	V	-69.05	-6.65	-75.70	-13.00	-62.70
41.64	H	-63.47	-11.68	-75.15	-13.00	-62.15
170.65	H	-67.52	-13.76	-81.29	-13.00	-68.29
245.34	H	-67.83	-14.20	-82.03	-13.00	-69.03
644.98	H	-69.16	-6.63	-75.79	-13.00	-62.79
787.57	H	-69.63	-5.27	-74.90	-13.00	-61.90
870.99	H	-68.97	-4.08	-73.05	-13.00	-60.05

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: EDGE 1900 / TX / CH 661

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
38.73	V	-55.67	-13.32	-68.99	-13.00	-55.99
102.75	V	-48.76	-17.49	-66.25	-13.00	-53.25
153.19	V	-56.60	-13.46	-70.06	-13.00	-57.06
235.64	V	-54.84	-14.55	-69.40	-13.00	-56.40
286.08	V	-56.14	-12.09	-68.23	-13.00	-55.23
566.41	V	-63.56	-7.94	-71.51	-13.00	-58.51
44.55	H	-62.18	-11.72	-73.90	-13.00	-60.90
145.43	H	-67.05	-14.25	-81.30	-13.00	-68.30
207.51	H	-68.13	-14.75	-82.87	-13.00	-69.87
235.64	H	-67.55	-14.01	-81.56	-13.00	-68.56
637.22	H	-69.81	-6.65	-76.46	-13.00	-63.46
857.41	H	-70.00	-4.46	-74.46	-13.00	-61.46

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: EDGE 1900 / TX / CH 810

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
46.49	V	-62.78	-14.08	-76.86	-13.00	-63.86
70.74	V	-65.19	-15.92	-81.11	-13.00	-68.11
137.67	V	-66.71	-13.30	-80.01	-13.00	-67.01
280.26	V	-68.04	-12.13	-80.17	-13.00	-67.17
438.37	V	-69.38	-10.31	-79.69	-13.00	-66.69
779.81	V	-69.60	-5.24	-74.84	-13.00	-61.84
42.61	H	-63.66	-11.70	-75.35	-13.00	-62.35
121.18	H	-67.65	-14.03	-81.68	-13.00	-68.68
175.50	H	-67.71	-14.02	-81.73	-13.00	-68.73
201.69	H	-67.52	-13.66	-81.19	-13.00	-68.19
625.58	H	-68.94	-6.79	-75.73	-13.00	-62.73
753.62	H	-69.09	-5.63	-74.73	-13.00	-61.73

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA Band II / TX / CH 9262

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-46.26	-16.26	-62.53	-13.00	-49.53
92.08	V	-47.85	-20.32	-68.18	-13.00	-55.18
286.08	V	-51.62	-12.09	-63.71	-13.00	-50.71
315.18	V	-49.46	-13.60	-63.06	-13.00	-50.06
372.41	V	-56.09	-13.02	-69.11	-13.00	-56.11
658.56	V	-62.31	-6.82	-69.14	-13.00	-56.14
57.16	H	-53.42	-16.17	-69.59	-13.00	-56.59
286.08	H	-55.27	-13.10	-68.37	-13.00	-55.37
315.18	H	-57.60	-14.23	-71.83	-13.00	-58.83
499.48	H	-66.01	-8.81	-74.82	-13.00	-61.82
566.41	H	-64.71	-7.81	-72.52	-13.00	-59.52
658.56	H	-67.48	-6.67	-74.15	-13.00	-61.15

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band II / TX / CH 9400

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-46.71	-16.26	-62.97	-13.00	-49.97
286.08	V	-51.31	-12.09	-63.41	-13.00	-50.41
315.18	V	-49.51	-13.60	-63.11	-13.00	-50.11
372.41	V	-56.55	-13.02	-69.57	-13.00	-56.57
429.64	V	-60.89	-10.55	-71.44	-13.00	-58.44
658.56	V	-62.25	-6.82	-69.08	-13.00	-56.08
57.16	H	-52.05	-16.17	-68.22	-13.00	-55.22
101.78	H	-54.37	-17.68	-72.04	-13.00	-59.04
286.08	H	-54.86	-13.10	-67.96	-13.00	-54.96
315.18	H	-52.75	-14.23	-66.98	-13.00	-53.98
372.41	H	-58.53	-12.43	-70.96	-13.00	-57.96
566.41	H	-62.37	-7.81	-70.18	-13.00	-57.18

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band II / TX / CH 9538

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-46.27	-16.26	-62.54	-13.00	-49.54
101.78	V	-50.69	-17.69	-68.37	-13.00	-55.37
286.08	V	-51.81	-12.09	-63.90	-13.00	-50.90
315.18	V	-49.75	-13.60	-63.36	-13.00	-50.36
372.41	V	-56.04	-13.02	-69.06	-13.00	-56.06
658.56	V	-63.47	-6.82	-70.30	-13.00	-57.30
57.16	H	-51.73	-16.17	-67.89	-13.00	-54.89
86.26	H	-50.36	-21.26	-71.62	-13.00	-58.62
99.84	H	-52.71	-18.04	-70.75	-13.00	-57.75
286.08	H	-55.41	-13.10	-68.51	-13.00	-55.51
315.18	H	-52.87	-14.23	-67.10	-13.00	-54.10
658.56	H	-63.02	-6.67	-69.69	-13.00	-56.69

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA Band V / TX / CH 4132

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-46.52	-16.26	-62.78	-13.00	-49.78
101.78	V	-51.09	-17.69	-68.77	-13.00	-55.77
286.08	V	-51.75	-12.09	-63.84	-13.00	-50.84
315.18	V	-49.97	-13.60	-63.57	-13.00	-50.57
372.41	V	-57.41	-13.02	-70.43	-13.00	-57.43
429.64	V	-61.39	-10.55	-71.95	-13.00	-58.95
57.16	H	-51.97	-16.17	-68.14	-13.00	-55.14
86.26	H	-50.63	-21.26	-71.90	-13.00	-58.90
286.08	H	-55.02	-13.10	-68.12	-13.00	-55.12
315.18	H	-52.73	-14.23	-66.96	-13.00	-53.96
372.41	H	-57.85	-12.43	-70.28	-13.00	-57.28
566.41	H	-63.58	-7.81	-71.39	-13.00	-58.39

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA Band V / TX / CH 4182

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-46.09	-16.26	-62.35	-13.00	-49.35
93.05	V	-47.77	-20.04	-67.81	-13.00	-54.81
286.08	V	-52.02	-12.09	-64.11	-13.00	-51.11
315.18	V	-49.71	-13.60	-63.32	-13.00	-50.32
372.41	V	-57.04	-13.02	-70.07	-13.00	-57.07
429.64	V	-62.28	-10.55	-72.83	-13.00	-59.83
57.16	H	-51.22	-16.17	-67.38	-13.00	-54.38
286.08	H	-55.30	-13.10	-68.40	-13.00	-55.40
315.18	H	-52.91	-14.23	-67.14	-13.00	-54.14
372.41	H	-58.65	-12.43	-71.08	-13.00	-58.08
429.64	H	-64.35	-10.45	-74.80	-13.00	-61.80
566.41	H	-63.95	-7.81	-71.75	-13.00	-58.75

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA Band V / TX / CH 4233

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-46.11	-16.26	-62.37	-13.00	-49.37
91.11	V	-47.40	-20.60	-68.00	-13.00	-55.00
286.08	V	-51.80	-12.09	-63.89	-13.00	-50.89
315.18	V	-49.60	-13.60	-63.20	-13.00	-50.20
372.41	V	-56.75	-13.02	-69.77	-13.00	-56.77
429.64	V	-61.35	-10.55	-71.90	-13.00	-58.90
57.16	H	-51.37	-16.17	-67.53	-13.00	-54.53
167.74	H	-57.02	-13.89	-70.91	-13.00	-57.91
286.08	H	-55.00	-13.10	-68.10	-13.00	-55.10
315.18	H	-52.88	-14.23	-67.11	-13.00	-54.11
372.41	H	-58.38	-12.43	-70.81	-13.00	-57.81
566.41	H	-64.01	-7.81	-71.82	-13.00	-58.82

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA / HSDPA Band II /
TX / CH 9262

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
34.85	V	-49.52	-15.50	-65.01	-13.00	-52.01
57.16	V	-46.53	-16.26	-62.80	-13.00	-49.80
92.08	V	-48.41	-20.32	-68.73	-13.00	-55.73
286.08	V	-51.67	-12.09	-63.77	-13.00	-50.77
315.18	V	-49.63	-13.60	-63.23	-13.00	-50.23
658.56	V	-62.10	-6.82	-68.93	-13.00	-55.93
57.16	H	-52.45	-16.17	-68.61	-13.00	-55.61
99.84	H	-54.02	-18.04	-72.06	-13.00	-59.06
168.71	H	-57.80	-13.82	-71.62	-13.00	-58.62
286.08	H	-55.10	-13.10	-68.20	-13.00	-55.20
315.18	H	-53.46	-14.23	-67.69	-13.00	-54.69
566.41	H	-62.23	-7.81	-70.04	-13.00	-57.04

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA / HSDPA Band II / TX / CH 9400

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-52.03	-16.17	-68.20	-13.00	-55.20
99.84	V	-53.42	-18.04	-71.47	-13.00	-58.47
286.08	V	-54.61	-13.10	-67.71	-13.00	-54.71
315.18	V	-52.86	-14.23	-67.09	-13.00	-54.09
566.41	V	-62.63	-7.81	-70.44	-13.00	-57.44
658.56	V	-62.59	-6.67	-69.26	-13.00	-56.26
57.16	H	-46.64	-16.26	-62.91	-13.00	-49.91
101.78	H	-50.54	-17.69	-68.22	-13.00	-55.22
286.08	H	-51.80	-12.09	-63.90	-13.00	-50.90
315.18	H	-49.60	-13.60	-63.20	-13.00	-50.20
372.41	H	-57.22	-13.02	-70.24	-13.00	-57.24
658.56	H	-63.21	-6.82	-70.04	-13.00	-57.04

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band II / TX / CH 9538

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-46.75	-16.26	-63.02	-13.00	-50.02
101.78	V	-51.21	-17.69	-68.89	-13.00	-55.89
286.08	V	-51.58	-12.09	-63.67	-13.00	-50.67
315.18	V	-49.03	-13.60	-62.64	-13.00	-49.64
372.41	V	-57.00	-13.02	-70.02	-13.00	-57.02
658.56	V	-62.70	-6.82	-69.52	-13.00	-56.52
57.16	H	-51.35	-16.17	-67.52	-13.00	-54.52
286.08	H	-55.61	-13.10	-68.71	-13.00	-55.71
315.18	H	-53.07	-14.23	-67.30	-13.00	-54.30
372.41	H	-58.72	-12.43	-71.15	-13.00	-58.15
566.41	H	-62.70	-7.81	-70.51	-13.00	-57.51
658.56	H	-63.80	-6.67	-70.47	-13.00	-57.47

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band V /
TX / CH 4132

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-45.81	-16.26	-62.07	-13.00	-49.07
286.08	V	-51.35	-12.09	-63.44	-13.00	-50.44
315.18	V	-48.92	-13.60	-62.52	-13.00	-49.52
372.41	V	-56.11	-13.02	-69.13	-13.00	-56.13
429.64	V	-61.35	-10.55	-71.91	-13.00	-58.91
566.41	V	-64.26	-7.94	-72.20	-13.00	-59.20
57.16	H	-50.70	-16.17	-66.86	-13.00	-53.86
99.84	H	-53.95	-18.04	-71.99	-13.00	-58.99
166.77	H	-57.24	-13.96	-71.20	-13.00	-58.20
286.08	H	-54.78	-13.10	-67.88	-13.00	-54.88
315.18	H	-52.49	-14.23	-66.72	-13.00	-53.72
372.41	H	-57.81	-12.43	-70.24	-13.00	-57.24

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band V / TX / CH 4182

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-45.91	-16.26	-62.17	-13.00	-49.17
92.08	V	-47.40	-20.32	-67.72	-13.00	-54.72
286.08	V	-52.12	-12.09	-64.22	-13.00	-51.22
315.18	V	-49.69	-13.60	-63.29	-13.00	-50.29
372.41	V	-56.89	-13.02	-69.92	-13.00	-56.92
566.41	V	-64.25	-7.94	-72.19	-13.00	-59.19
57.16	H	-51.44	-16.17	-67.61	-13.00	-54.61
167.74	H	-57.43	-13.89	-71.32	-13.00	-58.32
238.55	H	-57.91	-13.75	-71.66	-13.00	-58.66
286.08	H	-54.28	-13.10	-67.38	-13.00	-54.38
315.18	H	-52.66	-14.23	-66.89	-13.00	-53.89
372.41	H	-58.40	-12.43	-70.83	-13.00	-57.83

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band V /
TX / CH 4233

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-46.27	-16.26	-62.54	-13.00	-49.54
286.08	V	-52.01	-12.09	-64.10	-13.00	-51.10
315.18	V	-50.03	-13.60	-63.63	-13.00	-50.63
372.41	V	-56.63	-13.02	-69.65	-13.00	-56.65
429.64	V	-61.56	-10.55	-72.12	-13.00	-59.12
566.41	V	-65.71	-7.94	-73.65	-13.00	-60.65
57.16	H	-51.39	-16.17	-67.56	-13.00	-54.56
99.84	H	-53.15	-18.04	-71.19	-13.00	-58.19
286.08	H	-54.37	-13.10	-67.47	-13.00	-54.47
315.18	H	-52.85	-14.23	-67.08	-13.00	-54.08
331.67	H	-56.43	-13.97	-70.41	-13.00	-57.41
372.41	H	-58.04	-12.43	-70.47	-13.00	-57.47

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA / HSUPA Band II / TX / CH 9262

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-46.55	-16.26	-62.81	-13.00	-49.81
101.78	V	-50.92	-17.69	-68.60	-13.00	-55.60
286.08	V	-51.68	-12.09	-63.77	-13.00	-50.77
315.18	V	-49.99	-13.60	-63.60	-13.00	-50.60
372.41	V	-56.37	-13.02	-69.39	-13.00	-56.39
658.56	V	-62.54	-6.82	-69.36	-13.00	-56.36
57.16	H	-52.33	-16.17	-68.50	-13.00	-55.50
99.84	H	-54.26	-18.04	-72.30	-13.00	-59.30
286.08	H	-55.24	-13.10	-68.34	-13.00	-55.34
315.18	H	-53.04	-14.23	-67.27	-13.00	-54.27
372.41	H	-58.84	-12.43	-71.27	-13.00	-58.27
566.41	H	-62.02	-7.81	-69.83	-13.00	-56.83

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSUPA Band II /
TX / CH 9400

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
34.85	V	-50.03	-15.50	-65.53	-13.00	-52.53
57.16	V	-46.22	-16.26	-62.48	-13.00	-49.48
100.81	V	-50.49	-17.88	-68.37	-13.00	-55.37
286.08	V	-52.01	-12.09	-64.10	-13.00	-51.10
315.18	V	-49.70	-13.60	-63.30	-13.00	-50.30
658.56	V	-61.94	-6.82	-68.76	-13.00	-55.76
57.16	H	-52.03	-16.17	-68.20	-13.00	-55.20
101.78	H	-55.15	-17.68	-72.83	-13.00	-59.83
166.77	H	-57.80	-13.96	-71.76	-13.00	-58.76
286.08	H	-55.15	-13.10	-68.25	-13.00	-55.25
315.18	H	-53.71	-14.23	-67.94	-13.00	-54.94
372.41	H	-58.39	-12.43	-70.82	-13.00	-57.82

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA / HSUPA Band II /
TX / CH 9538

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
35.82	V	-50.00	-14.95	-64.95	-13.00	-51.95
57.16	V	-46.67	-16.26	-62.93	-13.00	-49.93
92.08	V	-47.93	-20.32	-68.25	-13.00	-55.25
286.08	V	-51.72	-12.09	-63.82	-13.00	-50.82
315.18	V	-49.68	-13.60	-63.28	-13.00	-50.28
658.56	V	-61.65	-6.82	-68.48	-13.00	-55.48
57.16	H	-52.00	-16.17	-68.16	-13.00	-55.16
99.84	H	-53.27	-18.04	-71.31	-13.00	-58.31
168.71	H	-58.01	-13.82	-71.83	-13.00	-58.83
286.08	H	-55.05	-13.10	-68.15	-13.00	-55.15
315.18	H	-53.00	-14.23	-67.23	-13.00	-54.23
372.41	H	-57.81	-12.43	-70.24	-13.00	-57.24

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA / HSUPA Band V /
TX / CH 4132

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-45.17	-16.26	-61.44	-13.00	-48.44
92.08	V	-46.38	-20.32	-66.70	-13.00	-53.70
286.08	V	-51.15	-12.09	-63.24	-13.00	-50.24
315.18	V	-49.10	-13.60	-62.70	-13.00	-49.70
372.41	V	-56.47	-13.02	-69.49	-13.00	-56.49
429.64	V	-60.36	-10.55	-70.91	-13.00	-57.91
57.16	H	-50.69	-16.17	-66.85	-13.00	-53.85
99.84	H	-52.98	-18.04	-71.02	-13.00	-58.02
286.08	H	-54.61	-13.10	-67.71	-13.00	-54.71
315.18	H	-52.06	-14.23	-66.29	-13.00	-53.29
372.41	H	-58.00	-12.43	-70.43	-13.00	-57.43
566.41	H	-63.19	-7.81	-71.00	-13.00	-58.00

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSUPA Band V /
TX / CH 4182

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-44.26	-16.26	-60.52	-13.00	-47.52
93.05	V	-46.36	-20.04	-66.41	-13.00	-53.41
286.08	V	-49.79	-12.09	-61.89	-13.00	-48.89
315.18	V	-48.58	-13.60	-62.18	-13.00	-49.18
372.41	V	-55.78	-13.02	-68.81	-13.00	-55.81
566.41	V	-63.33	-7.94	-71.27	-13.00	-58.27
57.16	H	-50.21	-16.17	-66.38	-13.00	-53.38
100.81	H	-53.26	-17.85	-71.11	-13.00	-58.11
166.77	H	-56.29	-13.96	-70.25	-13.00	-57.25
286.08	H	-54.02	-13.10	-67.12	-13.00	-54.12
315.18	H	-51.32	-14.23	-65.55	-13.00	-52.55
372.41	H	-56.07	-12.43	-68.50	-13.00	-55.50

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSUPA Band V /
TX / CH 4233

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-43.83	-16.26	-60.10	-13.00	-47.10
91.11	V	-45.43	-20.60	-66.04	-13.00	-53.04
286.08	V	-49.51	-12.09	-61.60	-13.00	-48.60
315.18	V	-47.24	-13.60	-60.84	-13.00	-47.84
372.41	V	-53.93	-13.02	-66.95	-13.00	-53.95
566.41	V	-61.94	-7.94	-69.89	-13.00	-56.89
57.16	H	-48.12	-16.17	-64.28	-13.00	-51.28
168.71	H	-54.75	-13.82	-68.57	-13.00	-55.57
286.08	H	-51.78	-13.10	-64.88	-13.00	-51.88
315.18	H	-50.20	-14.23	-64.43	-13.00	-51.43
372.41	H	-56.17	-12.43	-68.60	-13.00	-55.60
566.41	H	-60.41	-7.81	-68.22	-13.00	-55.22

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Above 1GHz

Operation Mode: GSM 850 / TX / CH 128

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1651.00	V	-40.56	1.61	-38.94	-13.00	-25.94
2470.00	V	-38.12	4.41	-33.72	-13.00	-20.72
4997.00	V	-59.23	10.42	-48.81	-13.00	-35.81
N/A						
1651.00	H	-42.57	1.42	-41.15	-13.00	-28.15
1784.00	H	-55.87	1.32	-54.56	-13.00	-41.56
2470.00	H	-47.19	4.43	-42.76	-13.00	-29.76
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GSM 850 / TX / CH 190

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1672.00	V	-41.97	1.63	-40.34	-13.00	-27.34
2512.00	V	-36.16	4.62	-31.54	-13.00	-18.54
N/A						
1672.00	H	-42.16	1.40	-40.76	-13.00	-27.76
1973.00	H	-56.31	1.18	-55.13	-13.00	-42.13
2512.00	H	-47.89	4.69	-43.20	-13.00	-30.20
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 850 / TX / CH 251

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1700.00	V	-39.15	1.38	-37.76	-13.00	-24.76
2547.00	V	-41.30	4.82	-36.48	-13.00	-23.48
N/A						
1700.00	H	-40.35	1.64	-38.70	-13.00	-25.70
2547.00	H	-33.75	4.76	-28.99	-13.00	-15.99
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GPRS 850 / TX / CH 128

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1651.00	V	-44.27	1.61	-42.66	-13.00	-29.66
2470.00	V	-55.12	4.41	-50.71	-13.00	-37.71
4997.00	V	-58.98	10.42	-48.56	-13.00	-35.56
N/A						
1651.00	H	-45.78	1.42	-44.36	-13.00	-31.36
2470.00	H	-58.49	4.43	-54.06	-13.00	-41.06
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 850 / TX / CH 190

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1672.00	V	-45.04	1.63	-43.41	-13.00	-30.41
2512.00	V	-57.17	4.62	-52.55	-13.00	-39.55
3345.00	V	-61.64	8.64	-53.00	-13.00	-40.00
4997.00	V	-59.58	10.42	-49.15	-13.00	-36.15
N/A						
1672.00	H	-45.12	1.40	-43.72	-13.00	-30.72
2512.00	H	-60.16	4.69	-55.48	-13.00	-42.48
3296.00	H	-61.13	8.22	-52.91	-13.00	-39.91
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 850 / TX / CH 251

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1700.00	V	-45.04	1.64	-43.40	-13.00	-30.40
2547.00	V	-57.16	4.76	-52.40	-13.00	-39.40
4997.00	V	-58.70	10.42	-48.28	-13.00	-35.28
N/A						
1700.00	H	-44.15	1.38	-42.77	-13.00	-29.77
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 1900 / TX / CH 512

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
5116.00	V	-60.52	10.40	-50.12	-13.00	-37.12
N/A						
4304.00	H	-61.46	8.67	-52.78	-13.00	-39.78
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 1900 / TX / CH 661

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4997.00	V	-58.09	10.42	-47.67	-13.00	-34.67
N/A						
6194.00	H	-60.24	11.52	-48.72	-13.00	-35.72
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 1900 / TX / CH 810

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3821.00	V	-59.00	8.83	-50.17	-13.00	-37.17
4997.00	V	-56.42	10.42	-46.00	-13.00	-33.00
5732.00	V	-54.58	10.48	-44.10	-13.00	-31.10
N/A						
5613.00	H	-59.57	10.19	-49.37	-13.00	-36.37
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 1900 / TX / CH 512

Test Date: June 2, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4997.00	V	-58.70	10.42	-48.28	-13.00	-35.28
N/A						
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 1900 / TX / CH 661

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4997.00	V	-59.56	10.42	-49.14	-13.00	-36.14
N/A						
3527.00	H	-61.71	9.29	-52.42	-13.00	-39.42
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 1900 / TX / CH 810

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4997.00	V	-58.30	10.42	-47.88	-13.00	-34.88
N/A						
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 850 / TX / CH 128

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1651.00	V	-47.79	1.61	-46.17	-13.00	-33.17
4997.00	V	-59.25	10.42	-48.82	-13.00	-35.82
N/A						
1651.00	H	-46.72	1.42	-45.30	-13.00	-32.30
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 850 / TX / CH 190

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1672.00	V	-48.36	1.63	-46.74	-13.00	-33.74
2512.00	V	-59.70	4.62	-55.08	-13.00	-42.08
4997.00	V	-58.67	10.42	-48.25	-13.00	-35.25
N/A						
1672.00	H	-47.26	1.40	-45.86	-13.00	-32.86
4724.00	H	-61.64	9.49	-52.14	-13.00	-39.14
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: EDGE 850 / TX / CH 251

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1700.00	V	-48.30	1.38	-46.92	-13.00	-33.92
N/A						
1700.00	H	-48.25	1.64	-46.61	-13.00	-33.61
2547.00	H	-59.66	4.76	-54.90	-13.00	-41.90
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: EDGE 1900 / TX / CH 512

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4997.00	V	-59.23	10.42	-48.81	-13.00	-35.81
N/A						
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: EDGE 1900 / TX / CH 661

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4997.00	V	-58.25	10.42	-47.83	-13.00	-34.83
N/A						
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: EDGE 1900 / TX / CH 810

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4997.00	V	-60.22	10.42	-49.80	-13.00	-36.80
N/A						
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA Band II / TX / CH 9262

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3709.00	V	-56.87	9.09	-47.78	-13.00	-34.78
4997.00	V	-59.07	10.42	-48.65	-13.00	-35.65
N/A						
3709.00	H	-58.72	8.87	-49.84	-13.00	-36.84
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band II / TX / CH 9400

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3758.00	V	-52.63	8.98	-43.66	-13.00	-30.66
4997.00	V	-58.90	10.42	-48.47	-13.00	-35.47
N/A						
3758.00	H	-56.74	8.76	-47.98	-13.00	-34.98
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band II / TX / CH 9538

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3814.00	V	-46.98	8.85	-38.14	-13.00	-25.14
N/A						
3814.00	H	-48.85	8.63	-40.22	-13.00	-27.22
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA Band V / TX / CH 4132

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1658.00	V	-58.00	1.62	-56.38	-13.00	-43.38
N/A						
1658.00	H	-59.72	1.41	-58.31	-13.00	-45.31
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA Band V / TX / CH 4182

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1672.00	V	-56.99	1.63	-55.37	-13.00	-42.37
N/A						
1672.00	H	-59.37	1.40	-57.96	-13.00	-44.96
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA Band V / TX / CH 4233

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1693.00	V	-54.32	1.64	-52.68	-13.00	-39.68
N/A						
1693.00	H	-56.67	1.39	-55.28	-13.00	-42.28
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA / HSDPA Band II /
TX / CH 9262

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3709.00	V	-58.87	9.09	-49.78	-13.00	-36.78
4997.00	V	-58.80	10.42	-48.38	-13.00	-35.38
N/A						
2316.00	H	-61.77	3.36	-58.42	-13.00	-45.42
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band II / TX / CH 9400

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3765.00	V	-59.31	8.96	-50.35	-13.00	-37.35
4997.00	V	-59.16	10.42	-48.74	-13.00	-35.74
N/A						
3765.00	H	-59.84	8.75	-51.09	-13.00	-38.09
5249.00	H	-61.02	10.11	-50.92	-13.00	-37.92
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band II / TX / CH 9538

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3814.00	V	-54.52	8.85	-45.67	-13.00	-32.67
4997.00	V	-58.88	10.42	-48.46	-13.00	-35.46
N/A						
3814.00	H	-56.82	8.63	-48.19	-13.00	-35.19
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band V /
TX / CH 4132

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1658.00	V	-58.60	1.41	-57.19	-13.00	-44.19
N/A						
1658.00	H	-58.60	1.41	-57.19	-13.00	-44.19
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band V /
TX / CH 4182

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1672.00	V	-56.18	1.63	-54.55	-13.00	-41.55
N/A						
1672.00	H	-58.02	1.40	-56.62	-13.00	-43.62
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA / HSDPA Band V / TX / CH 4233

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1693.00	V	-56.11	1.39	-54.73	-13.00	-41.73
N/A						
1693.00	H	-53.21	1.64	-51.57	-13.00	-38.57
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSUPA Band II /
TX / CH 9262

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3709.00	V	-60.50	9.09	-51.41	-13.00	-38.41
4997.00	V	-59.89	10.42	-49.46	-13.00	-36.46
N/A						
3709.00	H	-62.98	8.87	-54.11	-13.00	-41.11
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: WCDMA / HSUPA Band II / TX / CH 9400

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3758.00	V	-60.02	8.98	-51.04	-13.00	-38.04
4997.00	V	-60.42	10.42	-50.00	-13.00	-37.00
N/A						
3758.00	H	-61.11	8.76	-52.35	-13.00	-39.35
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSUPA Band II / TX / CH 9538

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3814.00	V	-52.03	8.85	-43.19	-13.00	-30.19
4997.00	V	-58.93	10.42	-48.50	-13.00	-35.50
N/A						
3814.00	H	-57.75	8.63	-49.12	-13.00	-36.12
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSUPA Band V / TX / CH 4132

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1658.00	V	-59.24	1.62	-57.63	-13.00	-44.63
N/A						
1658.00	H	-60.16	1.41	-58.75	-13.00	-45.75
3261.00	H	-61.93	8.03	-53.90	-13.00	-40.90
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSUPA Band V / TX / CH 4182

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1672.00	V	-55.34	1.63	-53.71	-13.00	-40.71
N/A						
1672.00	H	-60.38	1.40	-58.98	-13.00	-45.98
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSUPA Band V / TX / CH 4233

Test Date: June 3, 2010

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1693.00	V	-54.85	1.64	-53.21	-13.00	-40.21
N/A						
1693.00	H	-58.30	1.39	-56.92	-13.00	-43.92
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



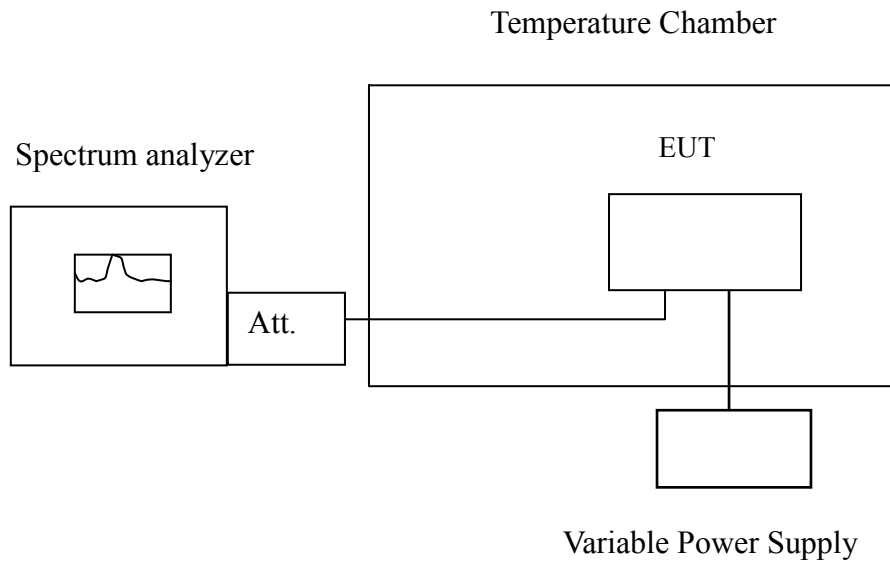
7.7 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

LIMIT

According to FCC §2.1055, FCC §22.355, .FCC §24.235.

Frequency Tolerance: 2.5 ppm

Test Configuration



Remark: Measurement setup for testing on Antenna connector



TEST PROCEDURE

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST RESULTS

No non-compliance noted.

Reference Frequency: GSM Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
120	50	836000022	42	2090
	40	836000024	44	
	30	836000021	41	
	20	835999980	0	
	10	836000021	41	
	0	836000029	49	
	-10	836000019	39	
	-20	836000027	47	
	-30	836000024	44	

Reference Frequency: GSM Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
120	50	1880000057	110	4700
	40	1880000061	114	
	30	1880000043	96	
	20	1879999947	0	
	10	1880000053	106	
	0	1880000044	97	
	-10	1880000046	99	
	-20	1880000049	102	
	-30	1880000054	107	



Reference Frequency: GPRS Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2090 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
120	50	836000027	60	2090
	40	836000030	63	
	30	836000025	58	
	20	835999967	0	
	10	836000039	72	
	0	836000034	67	
	-10	836000038	71	
	-20	836000034	67	
	-30	836000029	62	

Reference Frequency: GPRS Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
120	50	1880000064	125	4700
	40	1880000066	127	
	30	1880000068	129	
	20	1879999939	0	
	10	1880000078	139	
	0	1880000069	130	
	-10	1880000072	133	
	-20	1880000073	134	
	-30	1880000084	145	



Reference Frequency: EDGE Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2090 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
120	50	836000031	73	2090
	40	836000027	69	
	30	836000028	70	
	20	835999958	0	
	10	836000020	62	
	0	836000026	68	
	-10	836000033	75	
	-20	836000025	67	
	-30	836000027	69	

Reference Frequency: EDGE Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
120	50	1880000066	131	4700
	40	1880000067	132	
	30	1880000069	134	
	20	1879999935	0	
	10	1880000064	129	
	0	1880000059	124	
	-10	1880000064	129	
	-20	1880000052	117	
	-30	1880000068	133	



Reference Frequency: WCDMA Band II Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
120	50	1880000023	45	4700
	40	1880000017	39	
	30	1880000013	35	
	20	1879999978	0	
	10	1880000007	29	
	0	1880000019	41	
	-10	1880000003	25	
	-20	1880000001	23	
	-30	1880000015	37	

Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
120	50	836000010	-6	2090
	40	835999984	-32	
	30	836000004	-12	
	20	836000016	0	
	10	836000011	-5	
	0	835999991	-25	
	-10	835999999	-17	
	-20	835999997	-19	
	-30	836000023	7	



Reference Frequency: WCDMA / HSDPA Band II Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
120	50	1879999998	3	4700
	40	1879999994	-1	
	30	1880000009	14	
	20	1879999995	0	
	10	1879999990	-5	
	0	1879999999	4	
	-10	1880000001	6	
	-20	1880000003	8	
	-30	1879999993	-2	

Reference Frequency: WCDMA / HSDPA Band V Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
120	50	836000011	1	2090
	40	835999991	-19	
	30	835999994	-16	
	20	836000010	0	
	10	836000013	3	
	0	835999995	-15	
	-10	836000004	-6	
	-20	836000002	-8	
	-30	835999985	-25	



Reference Frequency: WCDMA / HSUPA Band II Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
120	50	1880000019	24	4700
	40	1880000012	17	
	30	1880000013	18	
	20	1879999995	0	
	10	1880000007	12	
	0	1880000004	9	
	-10	1879999999	4	
	-20	1879999994	-1	
	-30	1880000018	23	

Reference Frequency: WCDMA / HSUPA Band V Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
120	50	836000018	30	2090
	40	836000013	25	
	30	836000020	32	
	20	835999988	0	
	10	836000007	19	
	0	836000004	16	
	-10	836000013	25	
	-20	835999999	11	
	-30	836000002	14	

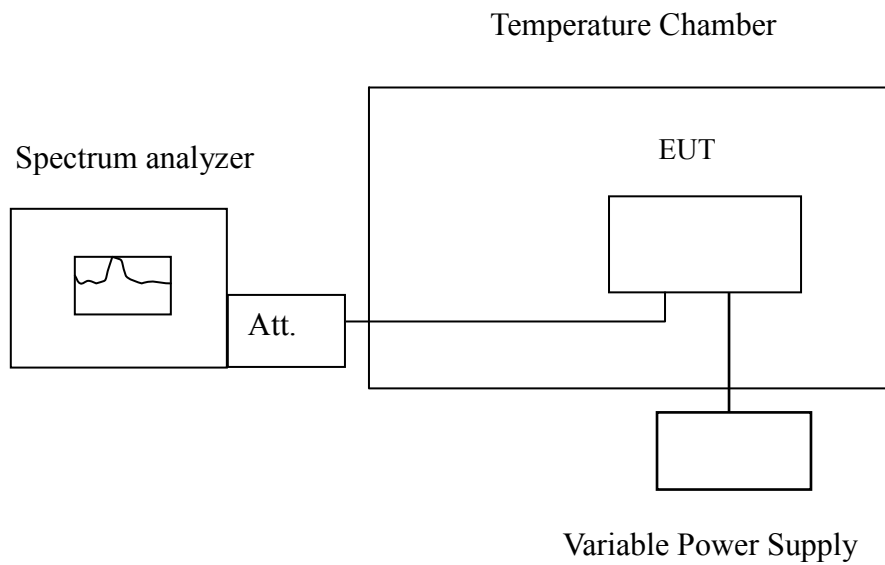


7.8 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

LIMIT

According to FCC §2.1055, FCC §22.355, .FCC §24.235,

Test Configuration



Remark: Measurement setup for testing on Antenna connector.



TEST PROCEDURE

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 10\%$) and endpoint, record the maximum frequency change.

TEST RESULTS

No non-compliance noted.

Reference Frequency: GSM Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
132	20	835999984	4	2090
120		835999980	0	
108		835999982	2	
98(End Point)		835999917	-63	

Reference Frequency: GSM Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
132	20	1879999945	-2	4700
120		1879999947	0	
108		1879999954	7	
98(End Point)		1879999894	-53	



Reference Frequency: GPRS Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
132	20	835999961	-6	2090
120		835999967	0	
108		835999972	5	
98(End Point)		835999906	-61	

Reference Frequency: GPRS Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
132	20	1879999931	-8	4700
120		1879999939	0	
108		1879999935	-4	
98(End Point)		1879999906	-33	



Reference Frequency: EDGE Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
132	20	835999957	-1	2090
120		835999958	0	
108		835999982	24	
98(End Point)		835999785	-173	

Reference Frequency: EDGE Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
132	20	1879999934	-1	4700
120		1879999935	0	
108		1879999937	2	
98(End Point)		1879999913	-22	



Reference Frequency: WCDMA Band II Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
132	20	1879999971	-7	4700
120		1879999978	0	
108		1879999991	13	
98(End Point)		1879999916	-62	

Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
132	20	836000011	-5	2090
120		836000016	0	
108		835999985	-31	
98(End Point)		835999905	-111	



Reference Frequency: WCDMA HSDPA Band II Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
132	20	1880000007	12	4700
120		1879999995	0	
108		1880000012	17	
98(End Point)		1879999923	-72	

Reference Frequency: WCDMA HSDPA Band V Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
132	20	836000012	2	2090
120		836000010	0	
108		835999995	-15	
98(End Point)		836000094	84	



Reference Frequency: WCDMA HSUPA Band II Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
132	20	1879999988	-7	4700
120		1879999995	0	
108		1879999992	-3	
98(End Point)		1879999927	-68	

Reference Frequency: WCDMA HSUPA Band V Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
132	20	835999994	6	2090
120		835999988	0	
108		835999979	-9	
98(End Point)		835999915	-73	



7.9 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.



TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Operation Mode: Normal Link **Test Date:** June 12, 2010
Temperature: 26°C **Tested by:** Ryan Chen
Humidity: 60% RH

Freq. (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.1891	46.35	42.15	0.05	46.40	42.20	64.08	54.08	-17.68	-11.88	L1
0.2828	44.97	43.17	0.03	45.00	43.20	60.73	50.73	-15.73	-7.53	L1
0.4742	44.18	43.78	0.02	44.20	43.80	56.44	46.44	-12.24	-2.64	L1
0.6656	43.38	41.68	0.02	43.40	41.70	56.00	46.00	-12.60	-4.30	L1
0.7594	39.79	38.29	0.01	39.80	38.30	56.00	46.00	-16.20	-7.70	L1
1.0328	38.29	16.89	0.01	38.30	16.90	56.00	46.00	-17.70	-29.10	L1
0.1891	46.25	41.85	0.05	46.30	41.90	64.08	54.08	-17.78	-12.18	L2
0.3805	42.88	38.58	0.02	42.90	38.60	58.27	48.27	-15.37	-9.67	L2
0.5758	37.38	35.38	0.02	37.40	35.40	56.00	46.00	-18.60	-10.60	L2
0.6734	37.08	35.98	0.02	37.10	36.00	56.00	46.00	-18.90	-10.00	L2
0.7594	35.69	38.89	0.01	35.70	38.90	56.00	46.00	-20.30	-7.10	L2
1.5172	32.18	18.98	0.02	32.20	19.00	56.00	46.00	-23.80	-27.00	L2

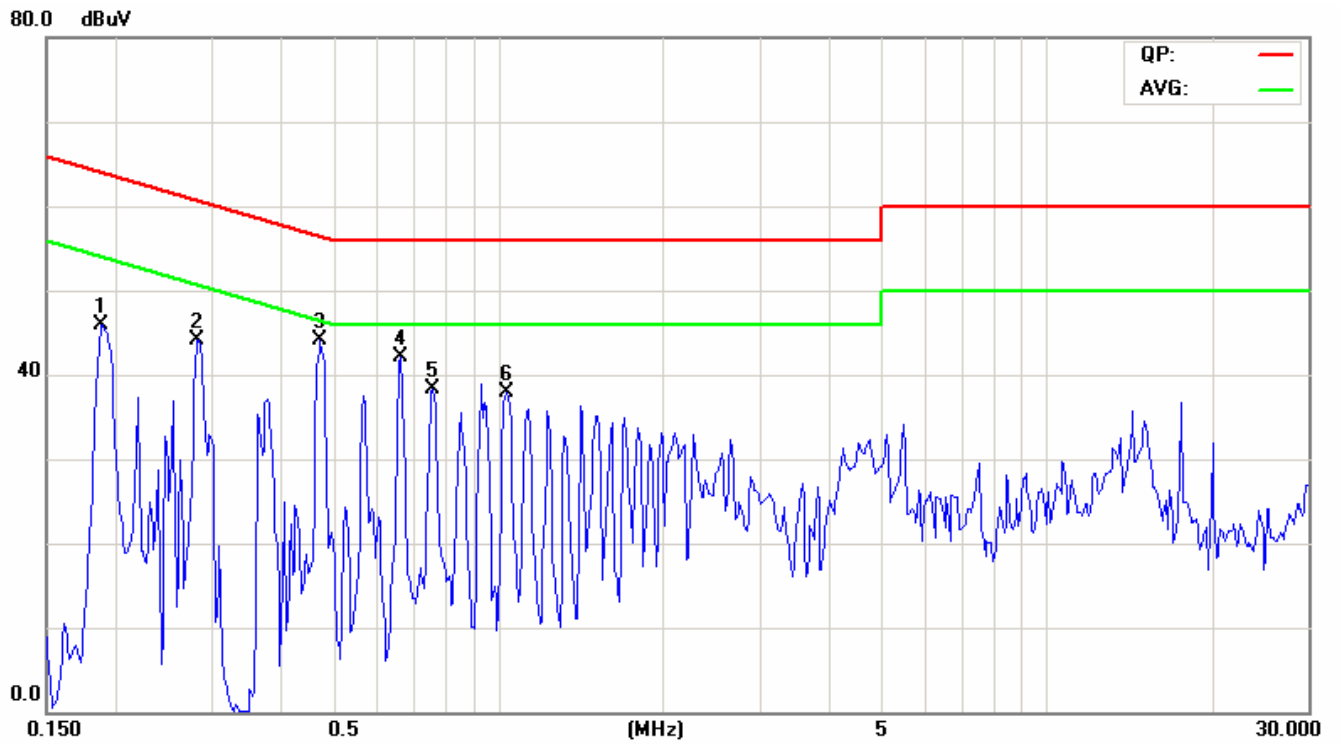
Remark:

1. Measuring frequencies from 0.15 MHz to 30MHz.
2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
3. The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;
4. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)
5. "-" means Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)

