FCC ID: FEOV6DC Date of Issue :April 11,2012

FCC 47 CFR PART 22 SUBPART H AND PART **24 SUBPART E** TEST REPORT

For

Product Name: Mobile Phone

Brand Name: JT) Model No.: v6DC Series Model: N/A **Test Report Number:** KS120314A01-RP1

Issued for

Domi Nav Ltd

40 Church Street, Flat 2, Walton On Thames KT12 2QS, UK

Issued by

Compliance Certification Services Inc.

Kun shan Laboratory

No.10 Weiye Rd., Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China

TEL: 86-512-57355888

FAX: 86-512-57370818



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Date of Issue : April 11,2012

REVISION HISTORY

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	April 11,2012	Initial Issue	ALL	Hadiif Hoo

Date of Issue : April 11,2012

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TEST RESULT CERTIFICATION

Product Name:	Mobile Phone		
Trade Name:	JT)		
Model Name.:	v6DC		
Series Model:	N/A		
Applicant Discrepancy:	Initial		
Devices supporting GPRS:	Class B		
Description Test Modes(worst case):	The all Models EUT were pretested, the SIM1 was found to transmit the highest SAR value		
Device Category:	PORTABLE DEVICES		
Exposure Category:	GENERAL POPULATION/UNCONTROLLED EXPOSURE		
Date of Test:	April 10, 2012		
Applicant:	Domi Nav Ltd 40 Church Street, Flat 2, Walton On Thames KT12 2QS, UK		
Manufacturer: Domi Nav Ltd 40 Church Street, Flat 2, Walton On Thames KT12 2QS, UK			
Application Type:	Certification		

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

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 ANSI C63.4: 2003 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:	Tested by:

Nachit . 400 Sean. yu

Hadiif Hoo Sean Yu RF Manager Test Engineer Compliance Certification Service Inc. Compliance Certification Service Inc.



2 EUT DESCRIPTION

Product Name:	Mobile Phone
Brand Name:	JT)
Model Name:	v6DC
Series Model:	N/A
Model Discrepancy:	N/A
Power Supply:	Power supply and ADP (rating): Input:100-240V-50/60HZ. 0.1A Output:DC3.7V 500mA Battery (rating): BL-5C 1050mAh Restrictive Voltage:4.2V Charging Voltage:3.7V
Frequency Range:	GSM/GPRS/EDGE 850: 824.20 ~ 848.80 MHz GSM/GPRS/EDGE1900: 1850.20 ~ 1909.80 MHz WCDMA/HSDPA:826.40 ~ 846.60 MHz BT:2402 ~ 2480 MHz
	GSM 850: 31.05 dBm GSM 1900: 31.49 dBm GPRS 850: 29.39 dBm GPRS 1900: 31.35 dBm WCDMA BAND V:21.88 dBm HSDPA BAND V:21.10 dBm
	GSM/GPRS: GMSK WCDMA/HSDPA: QPSK
Antenna Gain:	GSM/GPRS : -1.5 dBi
Antenna Type:	GSM/WCDMA: PIFA Antenna BT:Chip 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: FEOv6DC_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: Gobi2) had been tested under operating condition.

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.

EUT staying in continuous transmitting mode was programmed.

GSM/GPRS / 850:

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

GSM/GPRS / 1900:

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

WCDMA Band V:

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

HSDPA Band V:

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

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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

Conducted Emissions Test Site							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	E4446A	MY44020154	2012-5-13			
DETECTOR NEGATIVE	Agilent	8473B	MY42240176	2012-5-13			
OSCILLOSCOPE	Agilent	DSO6104A	MY44002585	2013-3-25			
Peak and Avg Power Sensor	Agilent	E9327A	US40441788	2013-3-25			
EPM-P Series Power Meter	Agilent	E4416A	GB41292714	2012-5-13			
Power SPLITTER	Mini-Circuits	ZN2PD-9G	SF078500430	2012-5-13			
DC POWER SUPPLY	GW instek	GPS-3303C	E903131	2012-5-13			
Temp. / Humidity Chamber	Kingson	THS-M1	242	2013-3-13			
Test Software	_	EZ	Z-EMC				

977 Chamber								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Spectrum Analyzer	Agilent	E4446A	MY44020154	2012-5-13				
EMI Test Receiver	R&S	ESPI3	101026	2013-3-16				
Pre-Amplfier	MINI	ZFL-1000VH2	d041703	2013-6-30				
Pre-Amplfier	Miteq	NSP4000-NF	870629	2013-6-30				
Bilog Antenna	Sunol	JB1	A110204-2	2013-6-24				
Horn-antenna	SCHWARZBECK	BBHA9120D	D:266	2012-5-13				
Turn Table	СТ	CT123	4165	N.C.R				
Antenna Tower	СТ	CTERG23	3256	N.C.R				
Controller	СТ	CT100	95637	N.C.R				
Test Software		EZ	Z-EMC					



Conducted Emission							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due			
EMI TEST RECEIVER	R&S	ESCI3	100781	2013-3-16			
V (V-LISN)	Schwarzbeck	NNLK 8129	8129-143	2013-3-16			
LISN (EUT)	FCC	FCC-LISN-50/250-50-2-02	SN:05012	2013-3-16			
TRANSIENT LIMITER	SCHAFFNER	CFL9206	1710	2013-4-9			
Test Software	EZ-EMC						

Remark: Each piece of equipment is scheduled for calibration once a year.

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement		Frequency		Uncertainty	
Conducted emissions		0.15MHz~30MHz		± 3.43 dB	
Measurement	Po	olarity	Frequency		Uncertainty
		П	30MHz ~ 200MH	Z	+/- 4.72dB
Radiated emissions			200MHz ~1000MHz		+/- 4.72dB
(below 1GHz)		V	30MHz ~ 200MH	Z	+/- 4.83dB
			200MHz ~1000MH	Ηz	+/- 4.70dB
		Н	1000MHz ~5000M	Hz	+/- 3.94dB
Radiated emissions			5000MHz ~6000M	Hz	+/- 3.94dB
(above 1GHz)		V	1000MHz ~5000M	Hz	+/- 3.94dB
			5000MHz ~6000M	Hz	+/- 3.94dB

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.10Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

The sites are constructed in conformance with the requirements of 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. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA A2LA China CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada Industry Canada

JapanVCCITaiwanBSMIUSAFCC

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccsrf.com Report NoKS120314A01-RP1

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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
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.

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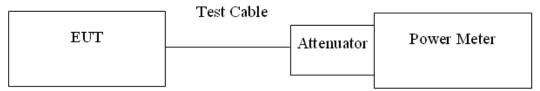
FCC PART 22 & 24 REQUIREMENTS

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	СН	Frequency (MHz)	Peak Power (dBm)
	128	824.20	30.75
GPRS 850 (Class 12)	190	836.40	30.71
(0.5.00 . =)	251	848.80	30.72
	128	824.20	30.70
EDGE 850 (Class 12)	190	836.40	30.71
(0.0.00)	251	848.80	30.75
	128	824.20	31.59
GSM 850	190	836.40	31.85
	251	848.80	31.75

Test Mode	СН	Frequency (MHz)	Peak Power (dBm)
0000 4000	512	1850.20	25.95
GPRS 1900 (Class 12)	661	1880.00	25.94
()	810	1909.80	24.93
	512	1850.20	24.59
EDGE 1900 (Class 12)	661	1880.00	24.56
	810	1909.80	24.84



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GSM 1900	512	1850.20	26.52
	661	1880.00	26.50
	810	1909.80	25.74

Test Mode	СН	Frequency (MHz)	Peak Power (dBm)
	4132	826.40	22.62
HSDPA (BAND V)	4182	836.40	22.58
(27.11.12.1)	4233	846.60	22.60
	4132	826.40	23.79
WCDMA (BAND V)	4182	836.40	23.75
(D) (IVD V)	4233	846.60	23.72

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

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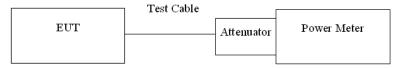
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7.2. AVERAGE POWER

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 Data

Test Mode	СН	Frequency (MHz)	AVG Power (dBm)
	128	824.20	30.98
GPRS 850 (Class 12)	190	836.40	30.55
(5.555 12)	251	848.80	30.52
	128	824.20	30.65
EDGE 850 (Class 12)	190	836.40	30.73
(2.332)	251	848.80	30.84
	128	824.20	31.19
GSM 850	190	836.40	31.26
	251	848.80	31.23

Test Mode	СН	Frequency (MHz)	AVG Power (dBm)
0000 4000	512	1850.20	25.81
GPRS 1900 (Class 12)	661	1880.00	25.05
(0.000 12)	810	1909.80	25.07
	512	1850.20	25.28
EDGE 1900 (Class 12)	661	1880.00	25.04
(0.000 12)	810	1909.80	24.85
GSM 1900	512	1850.20	26.34



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661	1880.00	26.44
810	1909.80	25.34

Test Mode	СН	Frequency (MHz)	Peak Power (dBm)
	4132	826.40	22.22
HSDPA (BAND V)	4182	836.40	22.40
(5/1115 1)	4233	846.60	22.26
	4132	826.40	23.44
WCDMA (BAND V)	4182	836.40	23.69
	4233	846.60	23.55

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

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7.3. ERP & EIRP MEASUREMENT

LIMIT

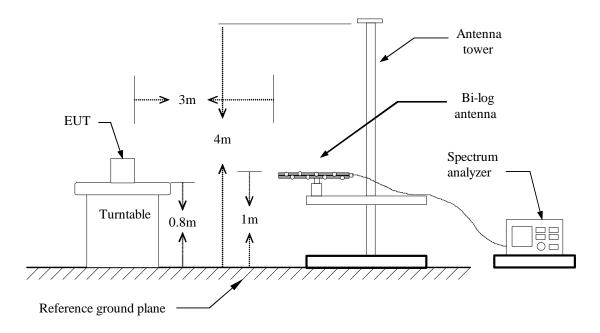
According to FCC §2.1046

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

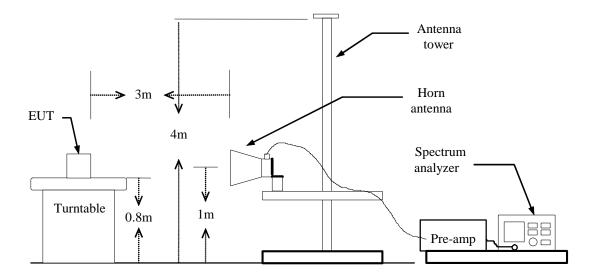
FCC 24.232(b): The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

TEST CONFIGURATION

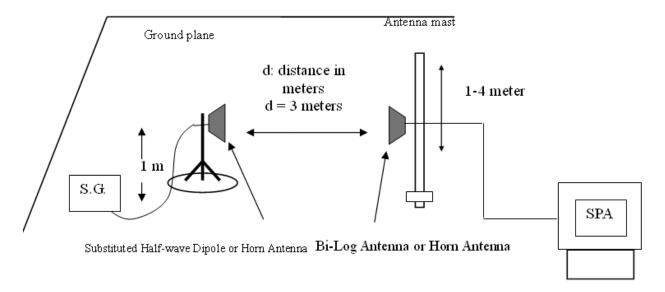
Below 1 GHz



Above 1 GHz



FOR SUBSTITUTED METHOD TEST SET-UP



TEST PROCEDURE

The EUT was placed on an 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:

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable (dB) EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable (dB)

TEST RESULTS

No non-compliance noted.



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GSM 850 TEST DATA

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dB)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.18	V	-14.54	34.61	20.07	38.5	-18.43
120	824.30	Н	-3.21	34.26	31.05	38.5	-7.45
190	836.66	V	-17.41	34.45	17.04	38.5	-21.46
190	836.78	Н	-4.34	34.26	29.92	38.5	-8.58
251	848.84	V	-16.97	34.64	17.67	38.5	-20.83
231	848.84	Н	-5.56	34.44	28.88	38.5	-9.62

GSM 1900 TEST DATA

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dB)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.10	V	-9.68	41.17	31.49	33	-1.51
312	1850.00	Н	-16.26	40.79	24.53	33	-8.47
661	1880.00	V	-9.94	41.23	31.29	33	-1.71
001	1879.80	Н	-17.86	41.14	23.28	33	-9.72
810	1909.90	V	-10.91	41.3	30.39	33	-2.61
010	1909.90	Н	-17.21	41.38	24.17	33	-8.83

GPRS 850 TEST DATA

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dB)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.18	V	-12.75	34.62	21.87	38.5	-16.63
120	824.18	Н	-5.26	34.65	29.39	38.5	-9.11
100	836.54	V	-15.67	34.53	18.86	38.5	-19.64
190	836.54	Н	-5.84	34.63	28.79	38.5	-9.71
251	848.78	V	-19.36	34.64	15.28	38.5	-23.22
231	849.08	Н	-6.98	34.75	27.77	38.5	-10.73

GPRS 1900 TEST DATA

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dB)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.20	V	-11.93	41.17	29.24	33	-3.76
312	1850.20	Н	-16.08	40.79	24.71	33	-8.29
661	1879.80	V	-10.5	41.23	30.73	33	-2.27
001	1879.80	Н	-17.38	41.14	23.76	33	-9.24
810	1909.70	V	-9.95	41.3	31.35	33	-1.65
010	1909.70	Н	-16.72	41.38	24.66	33	-8.34

EDGE 850 TEST DATA

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dB)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.18	V	-12.81	34.62	21.81	38.50	-16.69



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	824.18	Н	-5.30	34.65	*29.35	38.50	-9.15
190	836.54	V	-15.69	34.53	18.84	38.50	-19.66
190	836.54	Н	-5.84	34.63	28.79	38.50	-9.71
251	848.78	V	-19.58	34.64	15.06	38.50	-23.44
251	849.08	Н	-6.92	34.75	27.83	38.50	-10.67

EDGE 1900 TEST DATA

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dB)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.10	V	-9.86	41.17	*31.31	33.00	-1.69
312	1850.00	Н	-16.26	40.79	24.53	33.00	-8.47
661	1880.00	V	-10.02	41.23	31.21	33.00	-1.79
001	1879.80	Н	-17.57	41.14	23.57	33.00	-9.43
810	1909.90	V	-10.92	41.30	30.39	33.00	-2.61
010	1909.90	Н	-17.31	41.38	24.07	33.00	-8.93

WCDMA BAND V Test Data

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4132	826.40	V	-19.68	34.59	14.91	38.45	-23.54
4132	826.40	Н	-15.78	37.66	21.88	38.45	-16.57
4182	836.40	V	-17.36	34.54	17.18	38.45	-21.27
4102	836.40	Н	-13.96	34.63	20.67	38.45	-17.78
4233	846.60	V	-17.08	34.58	17.5	38.45	-20.95
4233	846.60	Н	-13.8	34.7	20.9	38.45	-17.55

HSDPA BAND V Test Data

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4132	826.40	V	-19.36	34.33	14.97	38.45	-23.48
4132	826.40	Н	-15.45	36.55	21.10	38.45	-17.35
4182	836.40	V	-16.78	34.99	18.21	38.45	-20.24
4102	836.40	Н	-13.72	34.12	20.4	38.45	-18.05
4233	846.60	V	-16.75	34.26	17.51	38.45	-20.94
4233	846.60	Н	-13.65	34.42	20.77	38.45	-17.68

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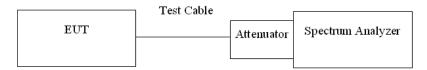
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7.4. OCCUPIED BANDWIDTH MEASUREMENT

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	СН	Frequency (MHz)	99% Bandwidth (kHz)
	128	824.20	247.7111
GPRS 850	190	836.40	249.4675
	251	848.80	247.3267
EDGE 850	128	824.20	237.2237
	190	836.40	247.7024
	251	848.80	246.5225
	128	824.20	244.5972
GSM 850	190	836.40	248.3829
	251	848.80	249.3973



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Test Mode	СН	Frequency (MHz)	99% Bandwidth (kHz)
	512	1850.20	250.2430
GPRS 1900	661	1880.00	249.6118
	810	1909.80	246.4672
EDGE 1900	512	1850.20	244.1619
	661	1880.00	246.3146
	810	1909.80	246.4034
	512	1850.20	247.6957
GSM 1900	661	1880.00	248.8254
	810	1909.80	246.3274

Test Mode	СН	Frequency (MHz)	99% Bandwidth (MHz)
	4132	826.40	4.1647
WCDMA (Band V)	4182	836.40	4.1745
	4233	846.60	4.1772
	4132	826.40	4.1911
HSDPA (BAND V)	4182	836.40	4.2002
	4233	846.60	4.1968

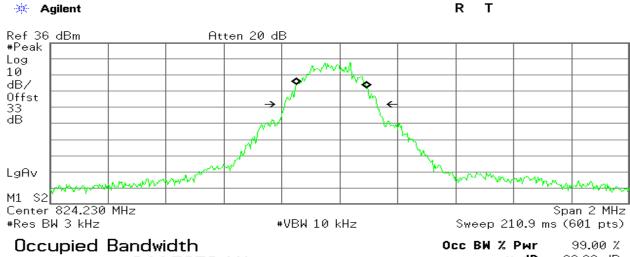


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Test Plot

GSM 850 (CH Low)

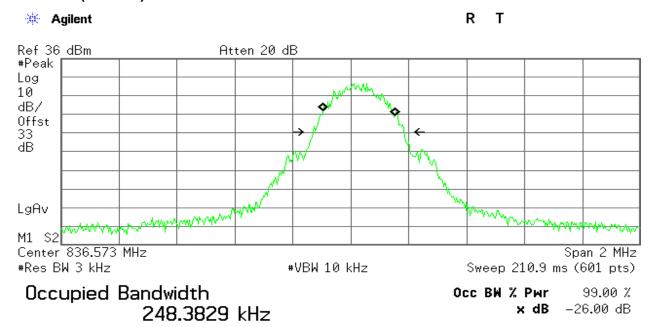


244.5972 kHz

x dB −26.00 dB

-28.725 kHz Transmit Freq Error x dB Bandwidth 319.020 kHz

GSM 850 (CH Mid)



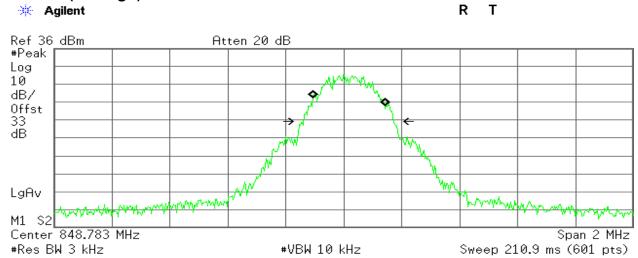
28.302 kHz Transmit Freq Error x dB Bandwidth 315.420 kHz



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GSM 850(CH High)

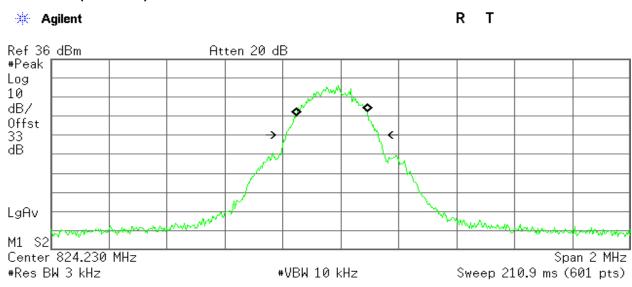


Occupied Bandwidth 249.3973 kHz

Occ BW % Pwr 99.00 % **x dB** -26.00 dB

Transmit Freq Error 17.011 kHz x dB Bandwidth 311.862 kHz

GPRS 850 (CH Low)



Occupied Bandwidth 247.7111 kHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

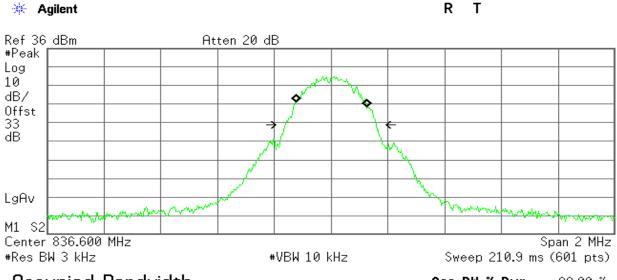
Transmit Freq Error -30.030 kHz x dB Bandwidth 319.749 kHz



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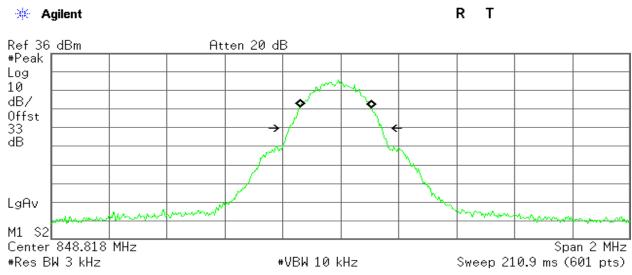
GPRS 850 (CH Mid)



Occupied Bandwidth 249.4675 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB

327.212 Hz Transmit Freq Error x dB Bandwidth 319.837 kHz

GPRS 850(CH High)



Occupied Bandwidth 247.3267 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB

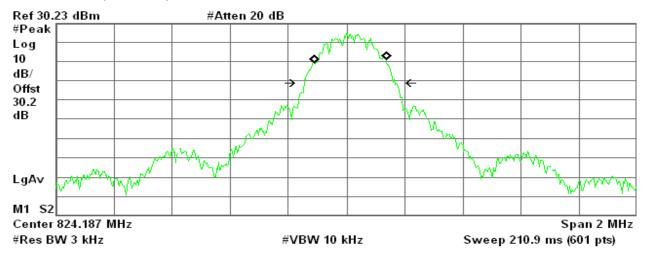
Transmit Freq Error -17.416 kHz x dB Bandwidth 320.981 kHz



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EGPRS 850(CH Low)

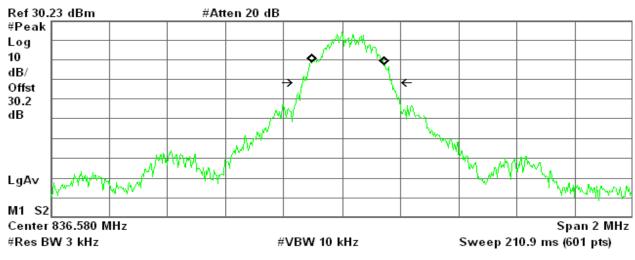


Occupied Bandwidth 246.5225 kHz

Occ BW % Pwr 99.00 % -26.00 dB x dB

Transmit Freq Error 12.448 kHz x dB Bandwidth 315.305 kHz

EGPRS 850(CH Mid)



Occupied Bandwidth 247.7024 kHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

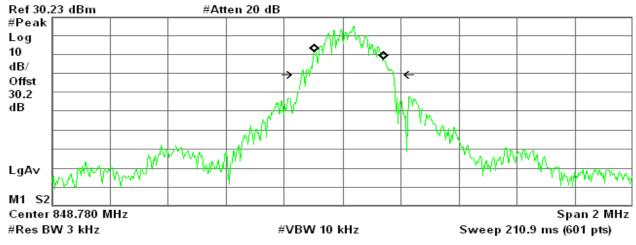
Transmit Freq Error 19.430 kHz x dB Bandwidth 305.680 kHz



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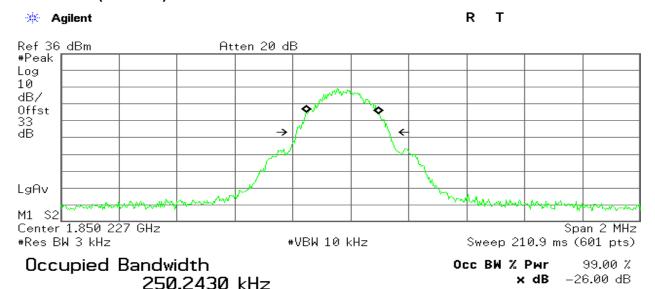
EGPRS 850(CH High)



Occupied Bandwidth 237.2237 kHz Occ BW % Pwr 99.00 % -26.00 dB x dB

Transmit Freq Error 20.937 kHz x dB Bandwidth 313.657 kHz

GPRS 1900 (CH Low)



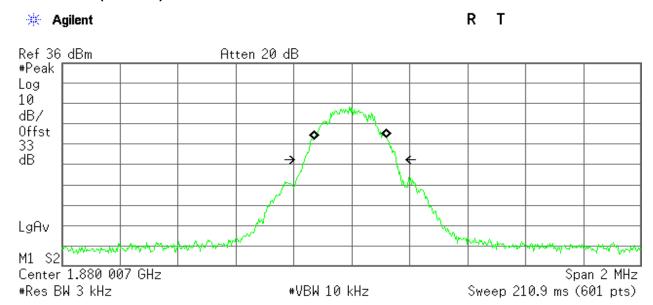
-26.808 kHz Transmit Freq Error x dB Bandwidth 319.477 kHz



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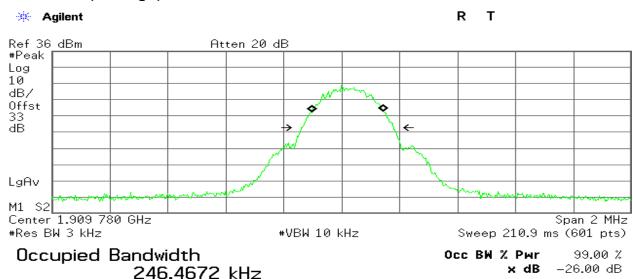
GPRS 1900 (CH Mid)



Occupied Bandwidth 249.8118 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -5.545 kHz x dB Bandwidth 316.594 kHz

GPRS 1900 (CH High)



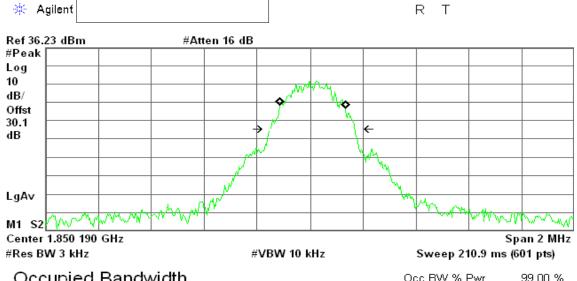
20.387 kHz Transmit Freq Error x dB Bandwidth 319.478 kHz



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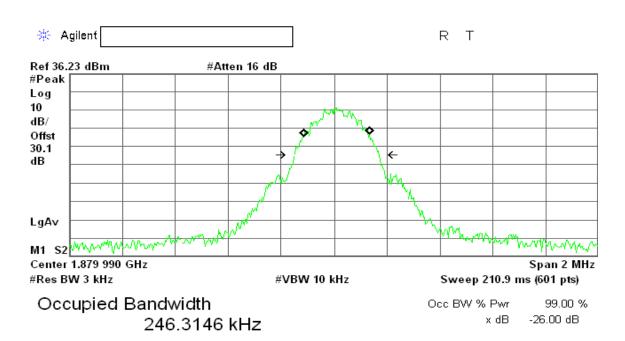
EDGE 1900 (CH Low)



Occupied Bandwidth 244.1619 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error 10.341 kHz x dB Bandwidth 315.626 kHz

EDGE 1900 (CH Mid)



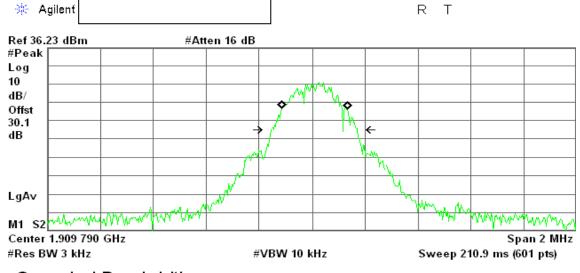
Transmit Freq Error 9.943 kHz x dB Bandwidth 318.011 kHz



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EDGE 1900 (CH High)

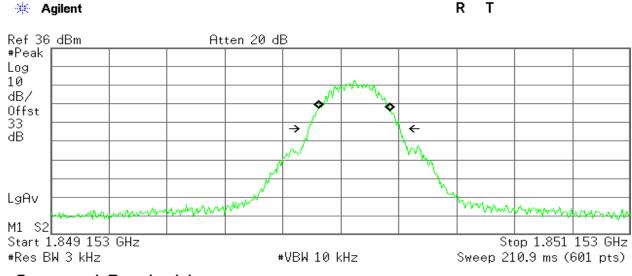


Occupied Bandwidth 246.4034 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error x dB Bandwidth

9.472 kHz 322.803 kHz

GSM 1900 (CH Low)



Occupied Bandwidth 247.6957 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB

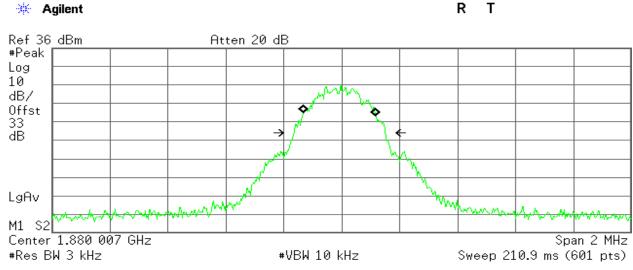
Transmit Freq Error 45.539 kHz x dB Bandwidth 316.023 kHz



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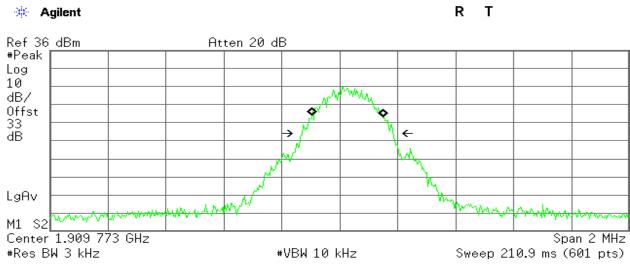
GSM 1900 (CH Mid)



Occupied Bandwidth 248.8254 kHz Occ BW % Pwr 99.00 % **x dB** -26.00 dB

Transmit Freq Error -7.384 kHz x dB Bandwidth 317.055 kHz

GSM 1900 (CH High)



Occupied Bandwidth 246.3274 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB

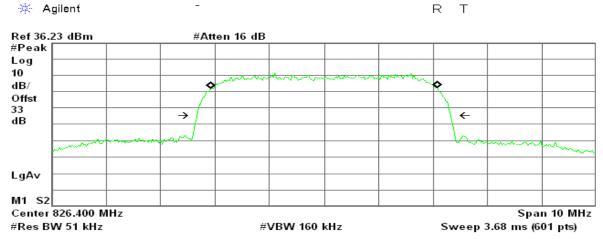
Transmit Freq Error 27.790 kHz x dB Bandwidth 314.653 kHz



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WCDMA Band V (CH Low)



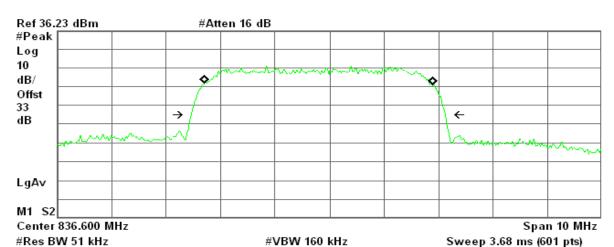
Occupied Bandwidth 4.1647 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error x dB Bandwidth

985.475 Hz 4.669 MHz

WCDMA Band V (CH Mid)

🔆 Agilent R T



Occupied Bandwidth 4.1745 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

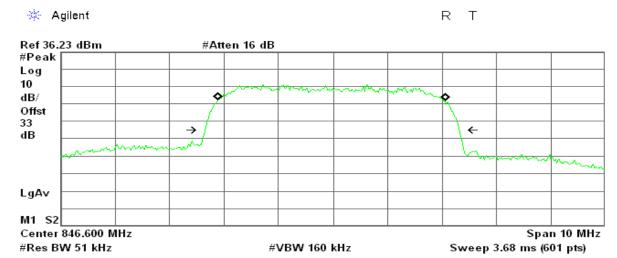
Transmit Freq Error -208,798 kHz x dB Bandwidth 4.669 MHz



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WCDMA Band V (CH High)

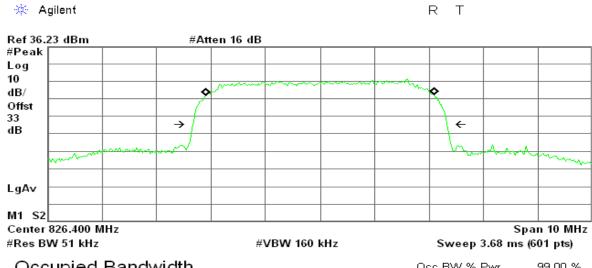


Occupied Bandwidth 4.1772 MHz

Occ BW % Pwr 99.00 % -26.00 dB x dB

-24.444 kHz Transmit Freq Error x dB Bandwidth 4.671 MHz

HSDPA Band V (CH Low)



Occupied Bandwidth 4.1911 MHz Occ BW % Pwr 99.00 % -26.00 dB x dB

Transmit Freg Error 2.178 kHz x dB Bandwidth 4.669 MHz

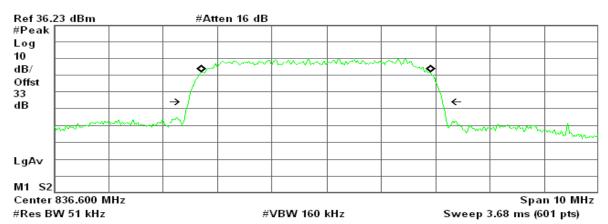


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HSDPA Band V (CH Mid)





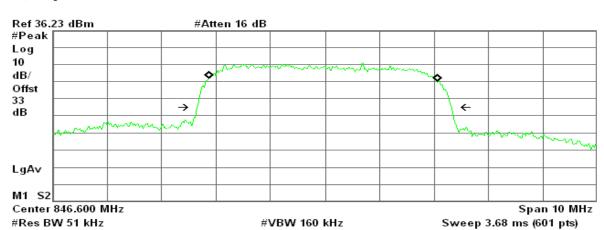
Occupied Bandwidth 4.2002 MHz

Occ BW % Pwr 99.00 % -26.00 dB x dB

Transmit Freq Error -202.181 kHz x dB Bandwidth 4.666 MHz

HSDPA Band V (CH High)





Occupied Bandwidth 4.1968 MHz

Occ BW % Pwr 99.00 % -26.00 dB x dB

Transmit Freq Error -36,135 kHz x dB Bandwidth 4.683 MHz

7.5. OUT OF BAND EMISSION AT ANTENNA TERMINALS

LIMIT

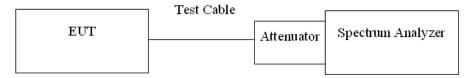
According to FCC §2.1051, FCC §22.917, FCC §24.238(a).

<u>Out of Band Emissions:</u> 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 lease 43 + 10 log P dB.

<u>Mobile Emissions in Base Frequency Range:</u> 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 lease 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the Out of band Emission

TEST CONFIGURATION



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.



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Test Data

Mode	СН	Location	Description
GSM 850	128	Figure 3-1	Band Edge emissions
	251	Figure 3-2	Band Edge emissions

Mode	СН	Location	Description
GSM 1900	512 Figure 4-1		Band Edge emissions
	810	Figure 4-2	Band Edge emissions

Mode	СН	Location	Description
	128	Figure 5-1	Conducted spurious emissions, 30MHz - 20GHz
GSM 850	190	Figure 5-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 5-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	СН	Location	Description
	512	Figure 6-1	Conducted spurious emissions, 30MHz - 20GHz
GSM 1900	661	Figure 6-2	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 6-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	СН	Location	Description
	128	Figure 7-1	Conducted spurious emissions, 30MHz - 20GHz
GPRS 850	190	Figure 7-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 7-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	СН	Location	Description
GPRS 1900	512	Figure 8-1	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 8-2	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 8-3	Conducted spurious emissions, 30MHz - 20GHz



Mode	СН	Location	Description
GPRS 850	128	Figure 9-1	Band Edge emissions
	251	Figure 9-2	Band Edge emissions

Mode	СН	Location	Description
GPRS 1900	512	Figure 10-1	Band Edge emissions
	810	Figure 10-2	Band Edge emissions

Mode	СН	Location	Description
WCDMA (Band V)	4132	Figure 11-1	Conducted spurious emissions, 30MHz - 20GHz
	4182	Figure 11-2	Conducted spurious emissions, 30MHz - 20GHz
	4233	Figure 11-3	Conducted spurious emissions, 30MHz - 20GHz
WCDMA (Band V)	4132	Figure 11-4	Band Edge emissions
	4233	Figure 11-5	Band Edge emissions

Mode	СН	Location	Description
HSDPA (Band V)	4132	Figure 12-1	Conducted spurious emissions, 30MHz - 20GHz
	4182	Figure 12-2	Conducted spurious emissions, 30MHz - 20GHz
	4233	Figure 12-3	Conducted spurious emissions, 30MHz - 20GHz
HSDPA (Band V)	4132	Figure 12-4	Band Edge emissions
	4233	Figure 12-5	Band Edge emissions

Mode	СН	Location	Description
	128	Figure 13-1	Conducted spurious emissions, 30MHz - 20GHz
EDGE 850	190	Figure 13-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 13-3	Conducted spurious emissions, 30MHz - 20GHz
EDGE 1900	512	Figure 13-4	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 13-5	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 13-6	Conducted spurious emissions, 30MHz - 20GHz

Mode	СН	Location	Description
EDGE 850	128	Figure 14-1	Band Edge emissions
	251	Figure 14-2	Band Edge emissions
EDGE 1900	512	Figure 14-3	Band Edge emissions



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Figure 14-4 810 Band Edge emissions

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Test Plot

GSM 850

Figure 5-1: Out of Band emission at antenna terminals – GSM CH Low

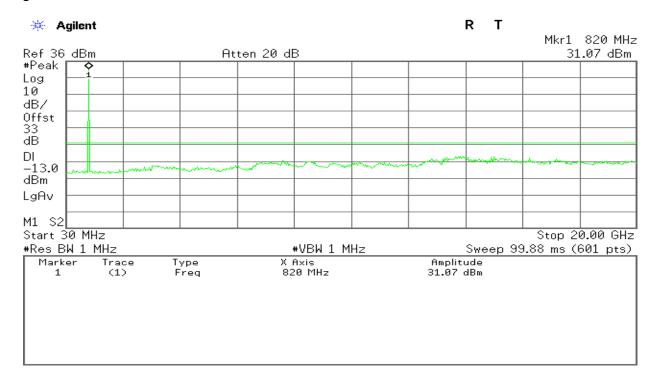


Figure 5-2: Out of Band emission at antenna terminals – GSM CH Mid

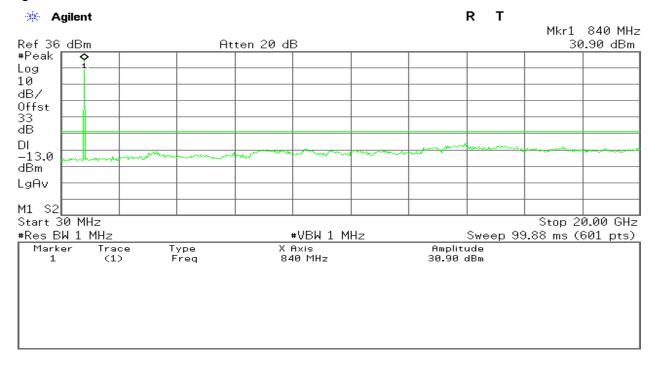
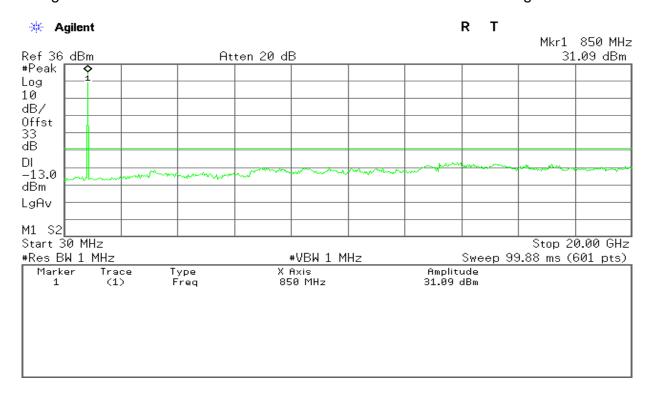


Figure 5-3: Out of Band emission at antenna terminals - GSM CH High



GSM 1900

Figure 6-1: Out of Band emission at antenna terminals – GSM CH Low

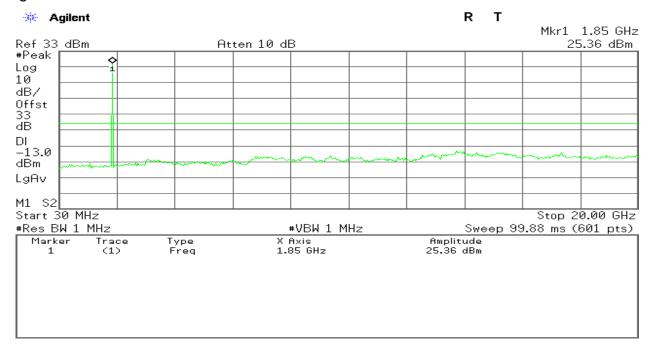




Figure 6-2: Out of Band emission at antenna terminals - GSM CH Mid

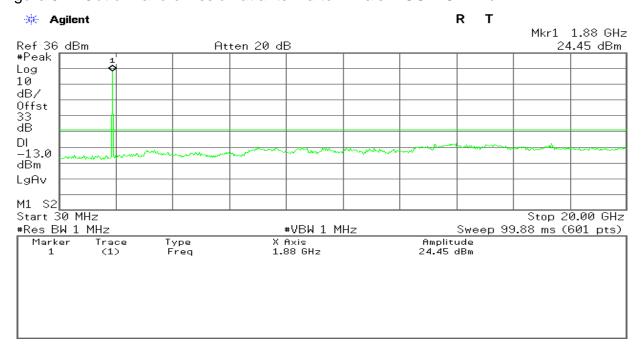
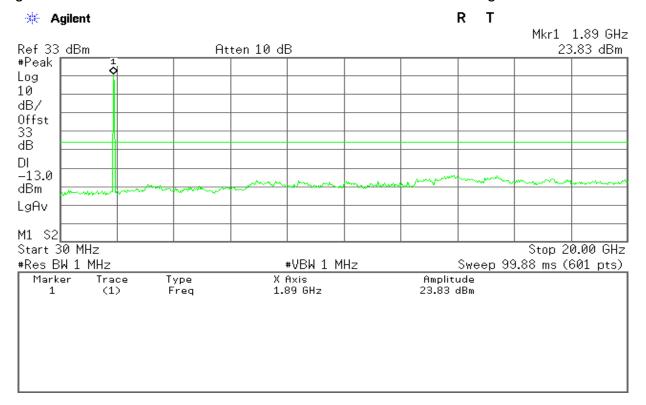


Figure 6-3: Out of Band emission at antenna terminals – GSM CH High



GSM 850

Figure 3-1: Band Edge emissions – GSM CH Low

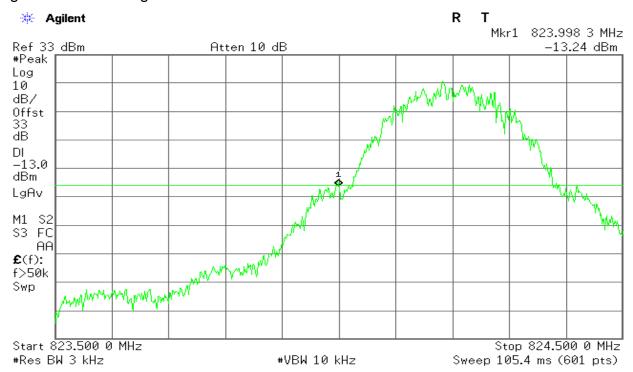
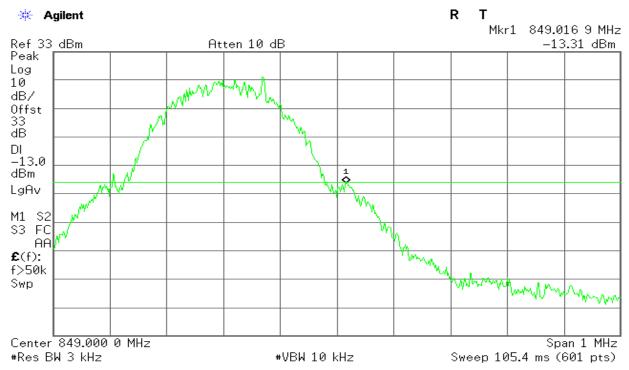


Figure 3-2: Band Edge emissions –GSM CH High



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GSM 1900

Figure 4-1: Band Edge emissions – GSM CH Low

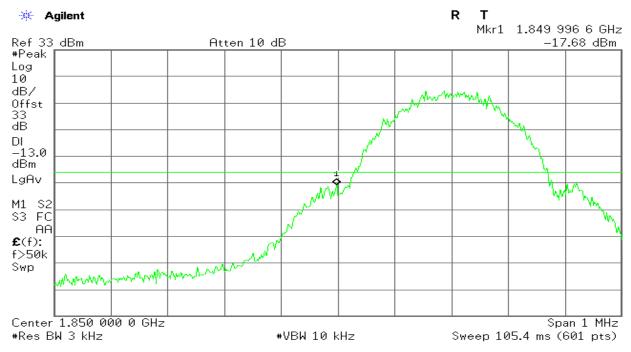
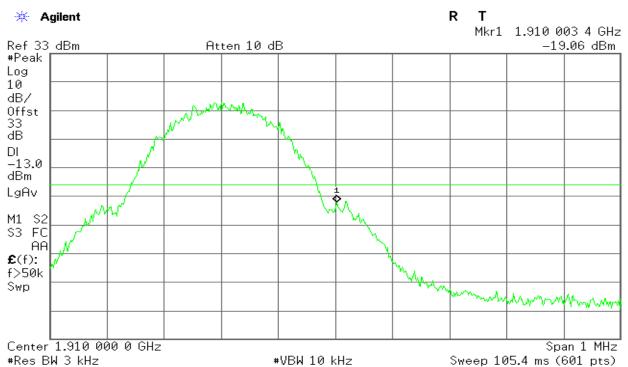


Figure 4-2: Band Edge emissions – GSM CH High



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GPRS 850

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

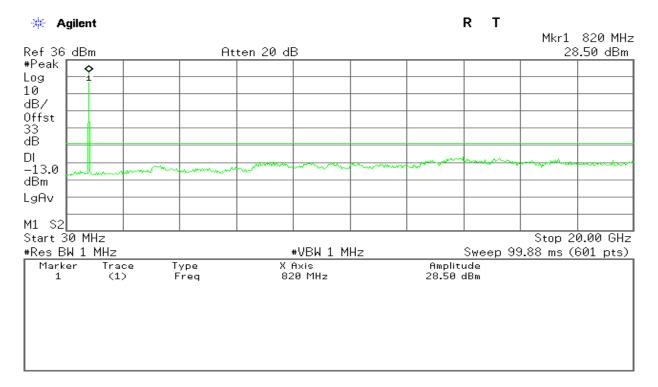
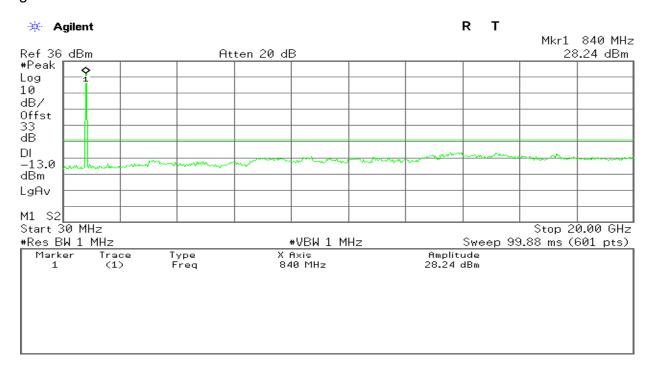


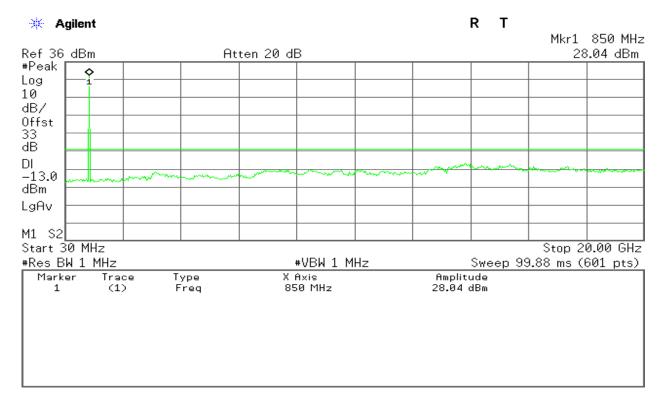
Figure 7-2: Out of Band emission at antenna terminals - GPRS CH Mid



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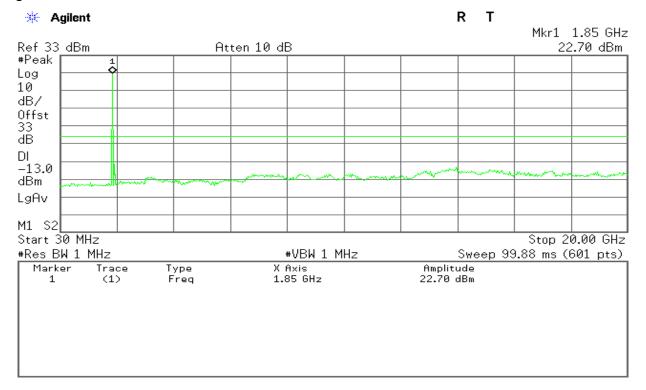
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Figure 7-3: Out of Band emission at antenna terminals – GPRS CH High



GPRS 1900

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





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

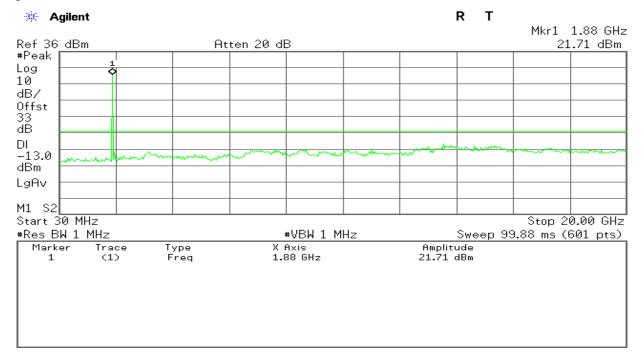
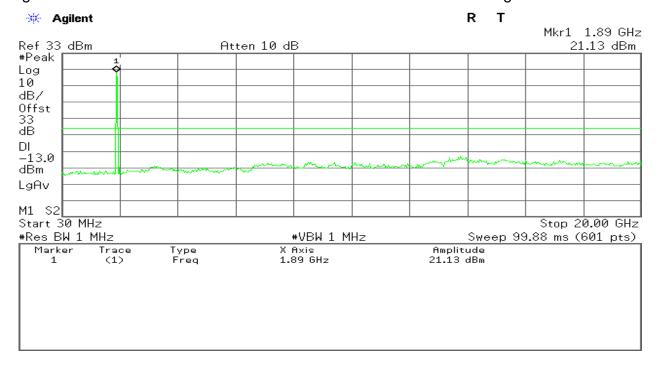


Figure 8-3: Out of Band emission at antenna terminals – GPRS CH High



GPRS 850

Figure 9-1: Band Edge emissions - GPRS CH Low

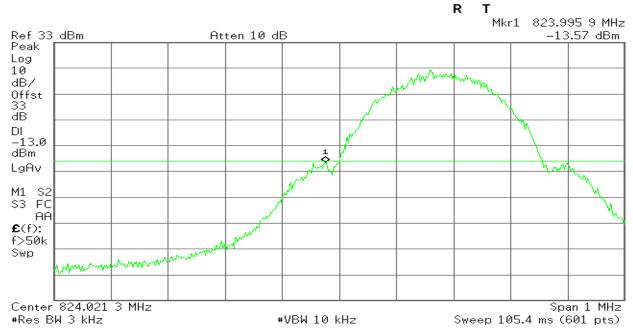


Figure 9-2: Band Edge emissions –GPRS CH High





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GPRS 1900

Figure 10-1: Band Edge emissions – GPRS CH Low

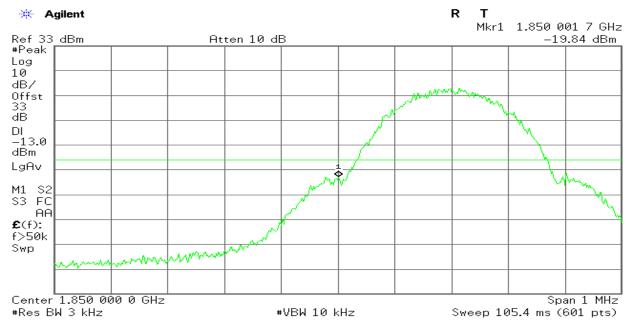
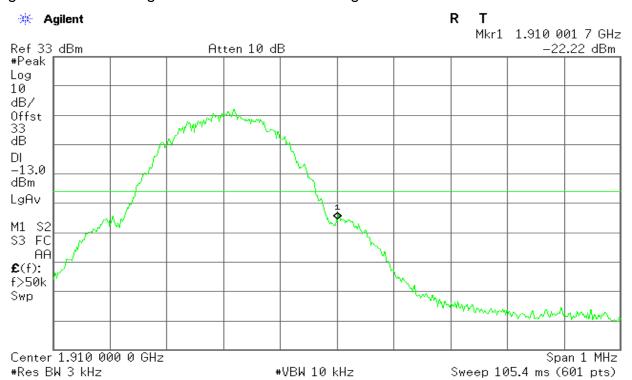


Figure 10-2: Band Edge emissions - GPRS CH High



WCDMA Band V

Figure 11-1: Out of Band emission at antenna terminals – WCDMA CH Low

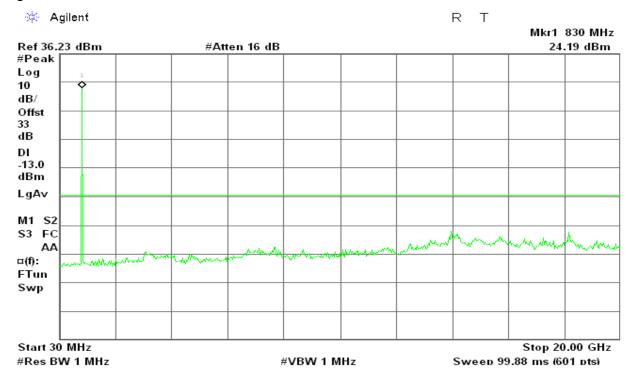
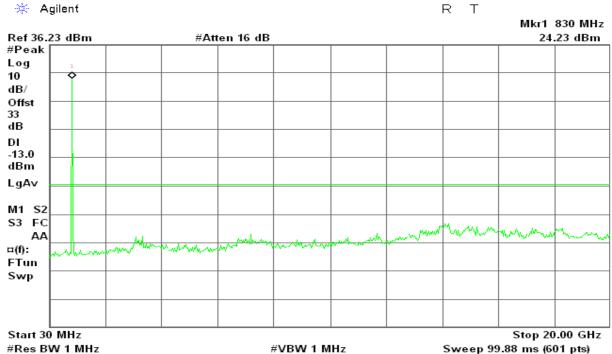


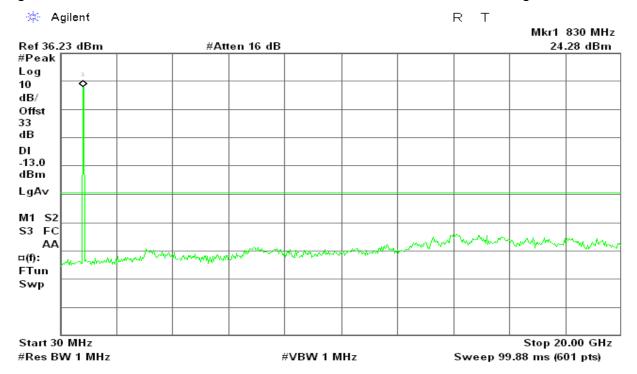
Figure 11-2: Out of Band emission at antenna terminals – WCDMA CH Mid





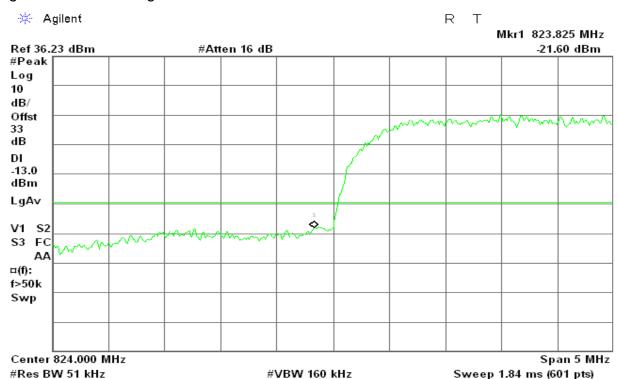
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Figure 11-3: Out of Band emission at antenna terminals – WCDMA CH High



WCDMA Band V

Figure 11-4: Band Edge emissions -WCDMA CH Low

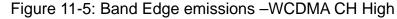


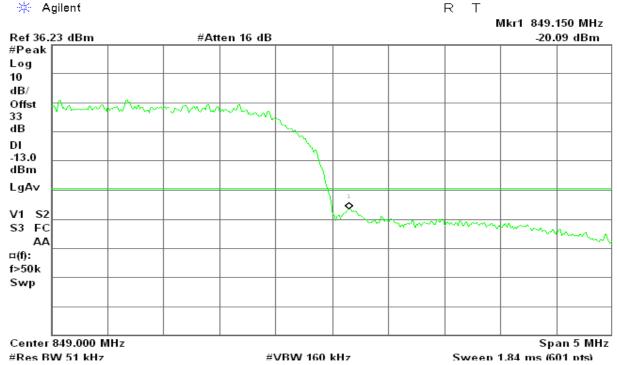


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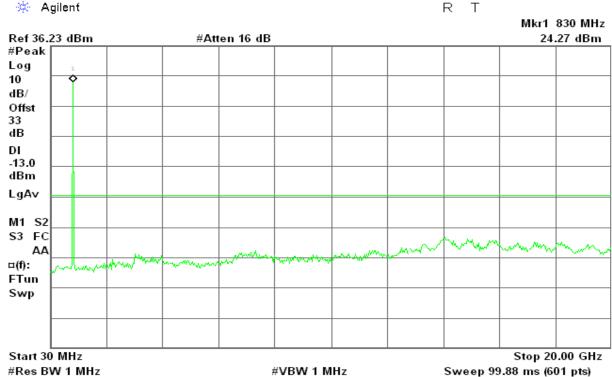
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HSDPA Band V

Figure 12-1: Out of Band emission at antenna terminals – HSDPA CH Low





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Figure 12-2: Out of Band emission at antenna terminals – HSDPA CH Mid

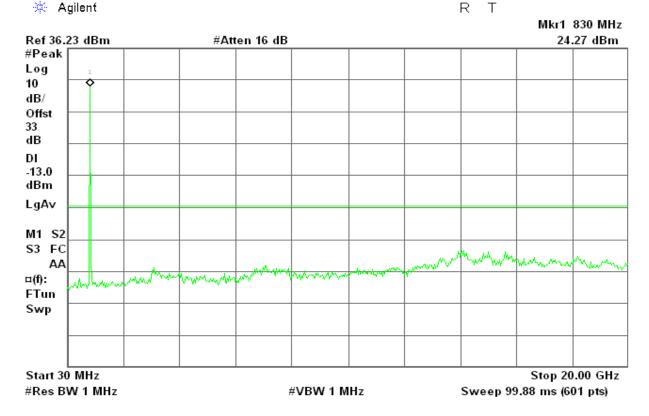
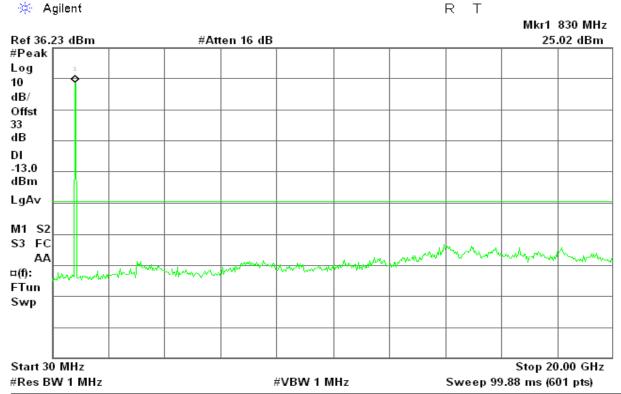


Figure 12-3: Out of Band emission at antenna terminals – HSDPA CH High





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WCDMA / HSDPA Band V

Figure 12-4: Band Edge emissions - HSDPA CH Low

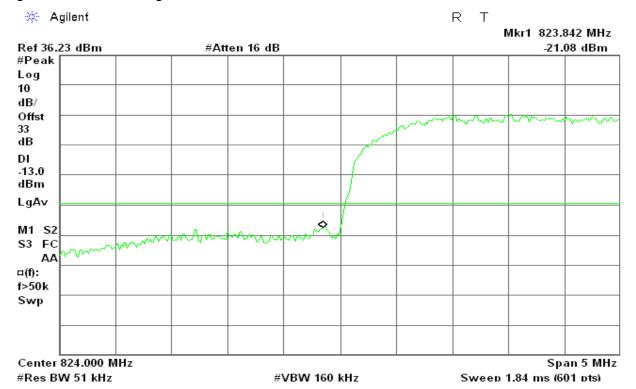
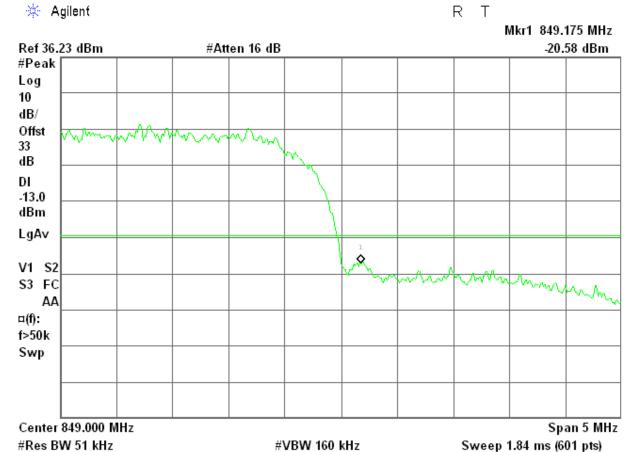


Figure 12-5: Band Edge emissions – HSDPA CH High





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EDGE 850

Figure 13-1: Out of Band emission at antenna terminals -EDGE CH Low

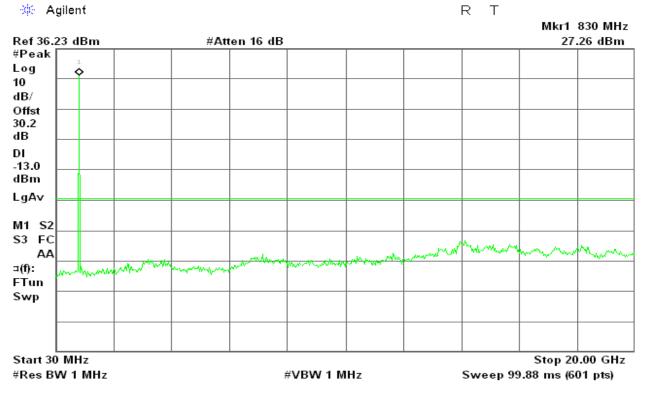
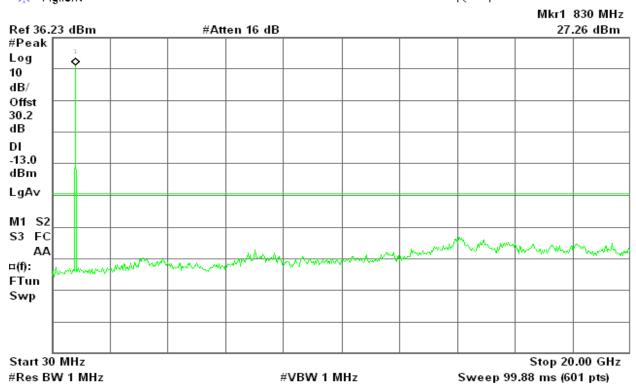


Figure 13-2: Out of Band emission at antenna terminals -EDGE CH Mid 🔆 Agilent R T

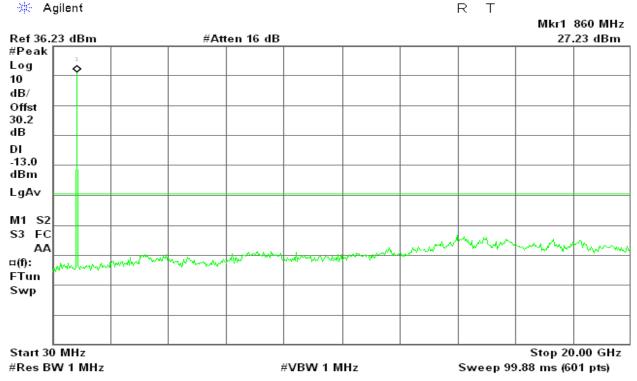




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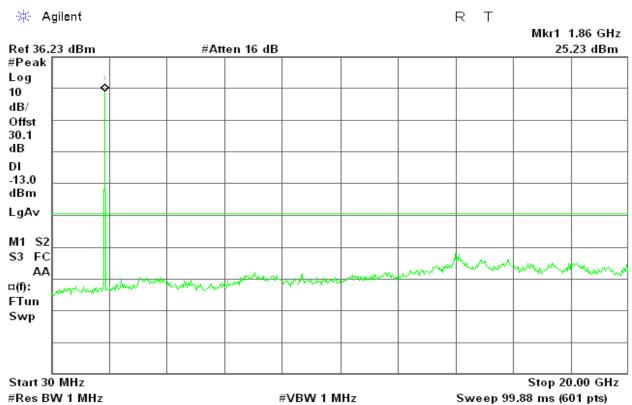
Date of Issue : April 11,2012

Figure 13-3: Out of Band emission at antenna terminals –EDGE CH High



EDGE 1900

Figure 13-4: Out of Band emission at antenna terminals -EDGE CH Low





Report NoKS120314A01-RP1 FCC ID: FEOV6DC

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Figure 13-5: Out of Band emission at antenna terminals -EDGE CH Mid

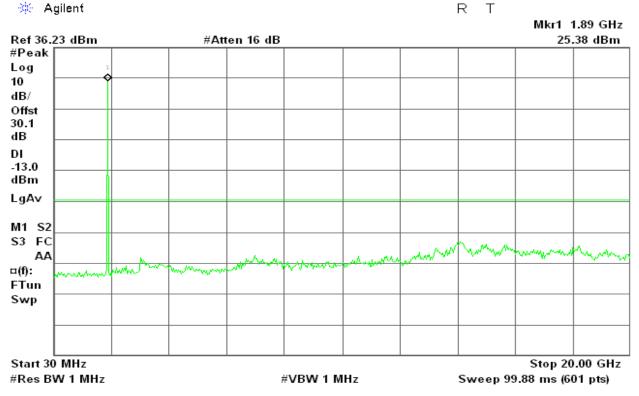
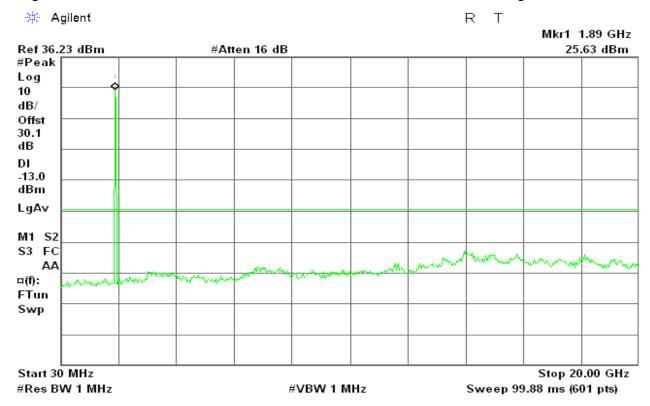


Figure 13-6: Out of Band emission at antenna terminals -EDGE CH High





Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Date of Issue : April 11,2012

EDGE 850

Figure 14-1: Band Edge emissions - EDGE CH Low

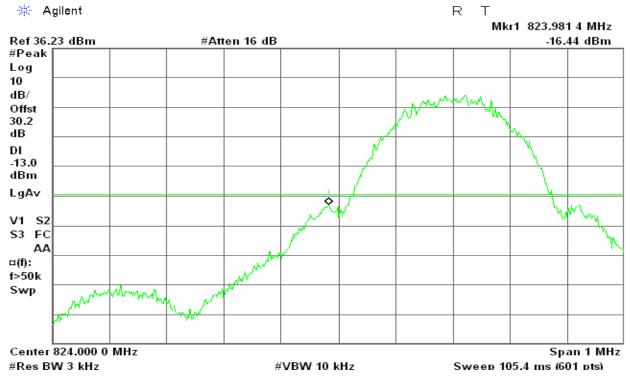
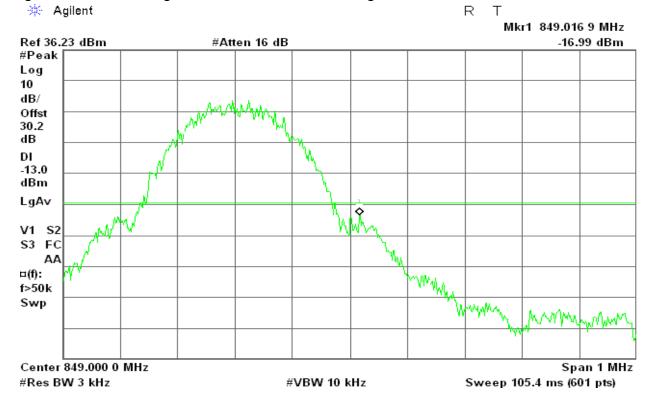


Figure 14-2: Band Edge emissions – EDGE CH High



Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Date of Issue : April 11,2012

EDGE 1900

Figure 14-3: Band Edge emissions - EDGE CH Low

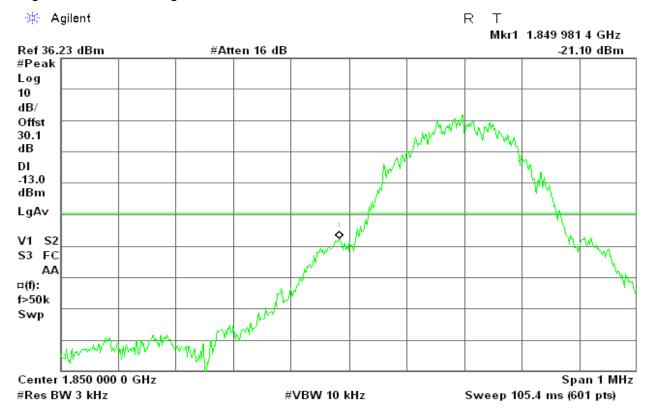
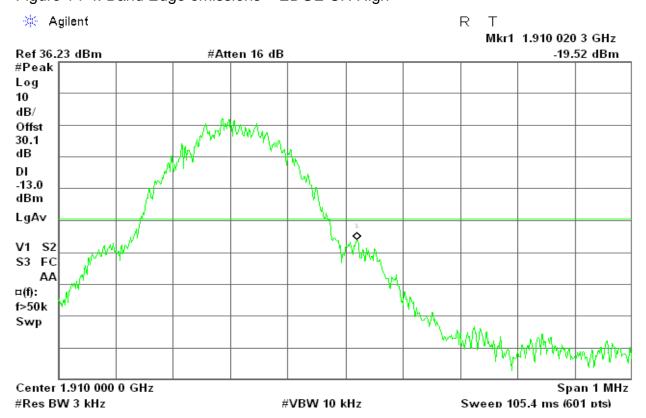


Figure 14-4: Band Edge emissions – EDGE CH High



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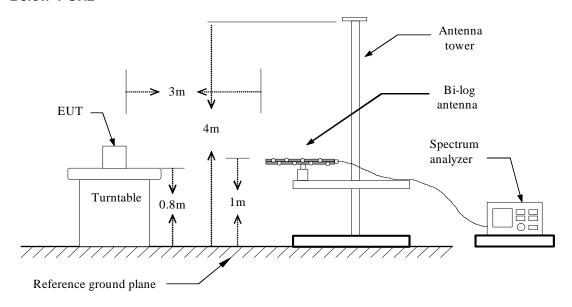
7.6. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

LIMIT

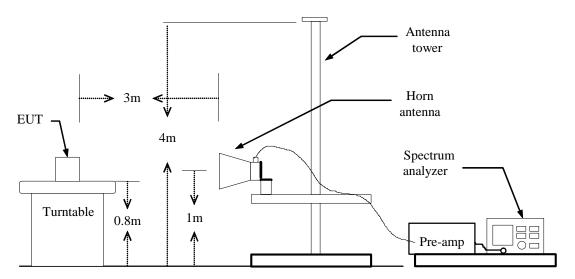
According to FCC §2.1053

TEST CONFIGURATION

Below 1 GHz



Above 1 GHz



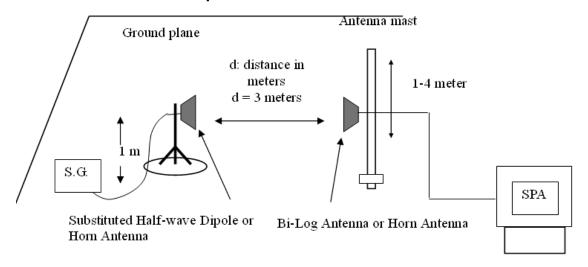


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Date of Issue: April 11,2012

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.

ERP = S.G. output (dBm) + Antenna Gain (dBd) - Cable (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) - Cable (dB)

Date of Issue : April 11,2012

TEST RESULTS

Refer to the attached tabular data sheets.

Radiated Spurious Emission Measurement Result / Below 1GHz

Operation Mode:	GPRS 850 / TX / CH 128	Test Date:	April 10,2012
Temperature:	23°C	Tested by:	Sean
Humidity:	51 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarizatio n	(dBm)	(dB)	(dBm)	(dBm)	(dB)
65.89	V	-36.25	-10.70	-46.95	-13.00	-33.95
112.45	V	-41.02	-5.90	-46.92	-13.00	-33.92
184.23	V	-38.58	-8.85	-47.43	-13.00	-34.43
270.56	V	-37.33	-9.18	-46.51	-13.00	-33.51
294.81	V	-34.69	-9.44	-44.13	-13.00	-31.13
363.68	V	-37.68	-6.68	-44.36	-13.00	-31.36
30.97	Н	-30.41	-16.87	-47.28	-13.00	-34.28
39.70	Н	-37.39	-8.79	-46.18	-13.00	-33.18
129.91	Н	-36.25	-8.95	-45.20	-13.00	-32.20
164.83	Н	-37.54	-10.97	-48.51	-13.00	-35.51
294.81	Н	-36.25	-9.01	-45.26	-13.00	-32.26
418.00	Н	-44.25	-4.31	-48.56	-13.00	-35.56



Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Date of Issue : April 11,2012

Operation Mode:	GPRS 850 / TX / CH 190	Test Date:	April 10,2012
Temperature:	23°C	Tested by:	Sean
Humidity:	51 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
61.44	V	-35.25	-10.70	-45.95	-13.00	-32.95
123.25	V	-42.14	-5.90	-48.04	-13.00	-35.04
185.41	V	-39.12	-8.85	-47.97	-13.00	-34.97
269.12	V	-36.20	-9.18	-45.38	-13.00	-32.38
291.36	V	-35.74	-9.44	-45.18	-13.00	-32.18
362.47	V	-36.25	-6.68	-42.93	-13.00	-29.93
31.54	Н	-31.20	-16.87	-48.07	-13.00	-35.07
39.25	Н	-36.41	-8.79	-45.20	-13.00	-32.20
130.25	Н	-35.75	-8.95	-44.70	-13.00	-31.70
163.98	Н	-36.24	-10.97	-47.21	-13.00	-34.21
295.47	Н	-35.12	-9.01	-44.13	-13.00	-31.13
417.36	Н	-43.36	-4.31	-47.67	-13.00	-34.67

- 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Date of Issue : April 11,2012

Operation Mode:	GPRS 850 / TX / CH 251	Test Date:	April 10,2012
Temperature:	23°C	Tested by:	Sean
Humidity:	51 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
164.44	V	-51.46	-13.84	-65.30	-13.00	-52.30
262.66	V	-47.34	-13.71	-61.05	-13.00	-48.05
399.64	V	-47.72	-11.17	-58.89	-13.00	-45.89
498.59	V	-54.85	-8.40	-63.25	-13.00	-50.25
694.56	V	-58.71	-6.25	-64.96	-13.00	-51.96
799.12	V	-60.54	-4.98	-65.52	-13.00	-52.52
115.68	Н	-55.41	-13.90	-69.31	-13.00	-56.31
161.86	Н	-48.75	-14.15	-62.90	-13.00	-49.90
263.56	Н	-52.62	-14.06	-66.68	-13.00	-53.68
400.36	Н	-51.42	-10.96	-62.38	-13.00	-49.38
498.59	Н	-59.52	-8.28	-67.80	-13.00	-54.80
695.56	Н	-57.11	-6.18	-63.29	-13.00	-50.29

- The emission behaviour belongs to narrowband spurious emission. 1.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser, with 2. " 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC Date of Issue : April 11,2012

Temperature: 21°C Tested by: Sean

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
100.36	V	-46.58	-17.68	-64.26	-13.00	-51.26
240.58	V	-49.76	-14.01	-63.77	-13.00	-50.77
264.52	V	-47.89	-13.71	-61.60	-13.00	-48.60
399.75	V	-46.95	-11.17	-58.12	-13.00	-45.12
499.21	V	-54.28	-8.38	-62.66	-13.00	-49.66
695.76	V	-58.43	-6.25	-64.68	-13.00	-51.68
100.46	Н	-45.98	-17.49	-63.47	-13.00	-50.47
264.59	Н	-52.04	-14.06	-66.10	-13.00	-53.10
400.28	Н	-52.64	-10.96	-63.60	-13.00	-50.60
511.49	Н	-58.73	-8.20	-66.93	-13.00	-53.93
695.73	Н	-57.75	-6.18	-63.93	-13.00	-50.93
742.35	Н	-62.33	-5.57	-67.90	-13.00	-54.90

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC Date of Issue : April 11,2012

Temperature: 21°C Tested by: Sean

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
131.26	V	-45.88	-12.34	-58.22	-13.00	-45.22
262.58	V	-48.75	-13.71	-62.46	-13.00	-49.46
400.29	V	-46.35	-11.22	-57.57	-13.00	-44.57
498.34	V	-54.39	-8.40	-62.79	-13.00	-49.79
698.76	V	-58.79	-6.25	-65.04	-13.00	-52.04
966.53	V	-60.33	-3.05	-63.38	-13.00	-50.38
131.55	Н	-45.83	-13.66	-59.49	-13.00	-46.49
264.91	Н	-52.14	-14.06	-66.20	-13.00	-53.20
400.31	Н	-51.65	-10.96	-62.61	-13.00	-49.61
451.89	Н	-55.73	-9.64	-65.37	-13.00	-52.37
695.67	Н	-57.49	-6.18	-63.67	-13.00	-50.67
966.38	Н	-61.25	-3.10	-64.35	-13.00	-51.35

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC Date of Issue : April 11,2012

Temperature: 21°C Tested by: Sean

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
262.59	V	-48.37	-13.71	-62.08	-13.00	-49.08
400.36	V	-48.91	-11.22	-60.13	-13.00	-47.13
497.81	V	-54.34	-8.40	-62.74	-13.00	-49.74
533.29	V	-57.46	-8.01	-65.47	-13.00	-52.47
695.74	V	-58.88	-6.25	-65.13	-13.00	-52.13
797.83	V	-60.34	-4.98	-65.32	-13.00	-52.32
115.67	Н	-55.43	-14.27	-69.70	-13.00	-56.70
161.34	Н	-48.21	-14.15	-62.36	-13.00	-49.36
262.91	Н	-51.62	-14.06	-65.68	-13.00	-52.68
400.33	Н	-51.37	-10.91	-62.28	-13.00	-49.28
497.82	Н	-59.86	-8.28	-68.14	-13.00	-55.14
695.67	Н	-58.70	-6.18	-64.88	-13.00	-51.88

- 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Date of Issue : April 11,2012

Operation Mode:	GPRS 1900 / TX / CH 512	Test Date:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
134.11	V	-43.55	-12.75	-56.30	-13.00	-43.30
226.89	V	-40.11	-14.56	-54.67	-13.00	-41.67
400.00	V	-41.25	-11.22	-52.47	-13.00	-39.47
500.74	V	-49.42	-8.38	-57.80	-13.00	-44.80
697.54	V	-54.14	-6.25	-60.39	-13.00	-47.39
801.65	V	-52.24	-4.97	-57.21	-13.00	-44.21
102.11	Н	-35.21	-16.71	-51.92	-13.00	-38.92
194.24	Н	-42.23	-13.34	-55.57	-13.00	-42.57
400.52	Н	-46.44	-10.96	-57.40	-13.00	-44.40
460.32	Н	-51.44	-9.30	-60.74	-13.00	-47.74
724.21	Н	-54.21	-6.03	-60.24	-13.00	-47.24
801.26	Н	-55.23	-4.87	-60.10	-13.00	-47.10

- 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Date of Issue : April 11,2012

Operation Mode:	GPRS 1900 / TX / CH 661	Test Date:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
42.22	V	-47.22	-12.36	-59.58	-13.00	-46.58
135.12	V	-43.11	-12.84	-55.95	-13.00	-42.95
228.20	V	-39.41	-14.56	-53.97	-13.00	-40.97
400.10	V	-41.24	-11.22	-52.46	-13.00	-39.46
500.74	V	-49.12	-8.38	-57.50	-13.00	-44.50
799.21	V	-51.44	-4.97	-56.41	-13.00	-43.41
117.12	Н	-37.25	-13.90	-51.15	-13.00	-38.15
191.20	Н	-42.14	-13.48	-55.62	-13.00	-42.62
400.01	Н	-46.25	-10.87	-57.12	-13.00	-44.12
501.41	Н	-53.15	-8.27	-61.42	-13.00	-48.42
721.02	Н	-54.25	-6.14	-60.39	-13.00	-47.39
800.12	Н	-55.25	-4.88	-60.13	-13.00	-47.13

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser, with 2. " 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Date of Issue : April 11,2012

Operation Mode:	GPRS 1900 / TX / CH 810	Test Date:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
135.55	V	-41.25	-12.84	-54.09	-13.00	-41.09
205.21	V	-41.24	-14.98	-56.22	-13.00	-43.22
401.41	V	-41.12	-11.17	-52.29	-13.00	-39.29
500.25	V	-49.75	-8.38	-58.13	-13.00	-45.13
695.15	V	-55.21	-6.25	-61.46	-13.00	-48.46
801.42	V	52.26	-4.92	47.34	-13.00	60.34
116.26	Н	-38.24	-14.09	-52.33	-13.00	-39.33
194.24	Н	-42.24	-13.34	-55.58	-13.00	-42.58
400.12	Н	-46.45	-10.96	-57.41	-13.00	-44.41
500.24	Н	-53.75	-8.27	-62.02	-13.00	-49.02
698.52	Н	-52.54	-6.18	-58.72	-13.00	-45.72
799.42	Н	-54.62	-4.89	-59.51	-13.00	-46.51

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency. 1.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser, with 2. " 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Operation EDGE 1900 / TX / CH 512 Test Date: April 10,2012 Mode:

21°C Tested by: Sean Temperature:

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
86.59	V	-36.64	-19.92	-56.56	-13.00	-43.56
133.25	V	-43.28	-12.67	-55.95	-13.00	-42.95
215.43	V	-39.75	-15.47	-55.22	-13.00	-42.22
400.58	V	-42.51	-11.22	-53.73	-13.00	-40.73
500.82	V	-49.70	-8.38	-58.08	-13.00	-45.08
800.13	V	-50.82	-4.97	-55.79	-13.00	-42.79
32.64	Н	-37.15	-15.23	-52.38	-13.00	-39.38
115.48	Н	-38.54	-14.27	-52.81	-13.00	-39.81
400.56	Н	-47.90	-10.96	-58.86	-13.00	-45.86
500.23	Н	-53.22	-8.27	-61.49	-13.00	-48.49
697.45	Н	-54.82	-6.18	-61.00	-13.00	-48.00
800.33	Н	-53.64	-4.90	-58.54	-13.00	-45.54

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC Date of Issue : April 11,2012

Temperature: 21°C Tested by: Sean

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
140.35	V	-41.82	-13.09	-54.91	-13.00	-41.91
241.52	V	-41.33	-14.02	-55.35	-13.00	-42.35
400.82	V	-42.01	-11.22	-53.23	-13.00	-40.23
499.85	V	-49.67	-8.38	-58.05	-13.00	-45.05
695.34	V	-55.34	-6.25	-61.59	-13.00	-48.59
797.34	V	-51.89	-4.98	-56.87	-13.00	-43.87
117.64	Н	-36.67	-13.90	-50.57	-13.00	-37.57
191.64	Н	-42.56	-13.48	-56.04	-13.00	-43.04
400.35	Н	-46.57	-10.87	-57.44	-13.00	-44.44
499.61	Н	-53.89	-8.27	-62.16	-13.00	-49.16
695.82	Н	-54.61	-6.18	-60.79	-13.00	-47.79
799.31	Н	-54.34	-4.90	-59.24	-13.00	-46.24

- 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC Date of Issue : April 11,2012

Temperature: 21°C Tested by: Sean

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
137.68	V	-43.25	-13.00	-56.25	-13.00	-43.25
231.56	V	-41.27	-14.43	-55.70	-13.00	-42.70
400.33	V	-42.65	-11.17	-53.82	-13.00	-40.82
452.19	V	-48.97	-9.76	-58.73	-13.00	-45.73
500.49	V	-50.31	-8.38	-58.69	-13.00	-45.69
797.86	V	-50.42	-4.98	-55.40	-13.00	-42.40
117.46	Н	-39.88	-13.90	-53.78	-13.00	-40.78
193.26	Н	-44.67	-13.20	-57.87	-13.00	-44.87
287.46	Н	-42.57	-12.87	-55.44	-13.00	-42.44
400.58	Н	-47.61	-10.96	-58.57	-13.00	-45.57
697.85	Н	-52.37	-6.18	-58.55	-13.00	-45.55
800.16	Н	-55.82	-4.88	-60.70	-13.00	-47.70

- 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Date of Issue : April 11,2012

Operation Mode:	WCDMA / TX / CH 4132	Test Date:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
101.21	V	-46.24	-17.68	-63.92	-13.00	-50.92
240.20	V	-49.12	-14.01	-63.13	-13.00	-50.13
264.41	V	-47.24	-13.71	-60.95	-13.00	-47.95
399.25	V	-46.25	-11.17	-57.42	-13.00	-44.42
499.20	V	-54.74	-8.38	-63.12	-13.00	-50.12
695.20	V	-58.26	-6.25	-64.51	-13.00	-51.51
100.35	Н	-45.25	-17.49	-62.74	-13.00	-49.74
264.26	Н	-52.50	-14.06	-66.56	-13.00	-53.56
400.24	Н	-52.20	-10.96	-63.16	-13.00	-50.16
511.21	Н	-58.30	-8.20	-66.50	-13.00	-53.50
695.35	Н	-55.25	-6.18	-61.43	-13.00	-48.43
742.26	Н	-62.80	-5.57	-68.37	-13.00	-55.37

- 2. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Date of Issue : April 11,2012

Operation Mode:	WCDMA Band V / TX / CH 4182	Test Date:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
131.53	V	-45.46	-12.34	-57.80	-13.00	-44.80
261.53	V	-48.47	-13.71	-62.18	-13.00	-49.18
401.24	V	-46.41	-11.22	-57.63	-13.00	-44.63
498.78	V	-54.24	-8.40	-62.64	-13.00	-49.64
698.25	V	-58.53	-6.25	-64.78	-13.00	-51.78
966.41	V	-60.24	-3.05	-63.29	-13.00	-50.29
131.25	Н	-45.74	-13.66	-59.40	-13.00	-46.40
264.43	Н	-52.15	-14.06	-66.21	-13.00	-53.21
400.47	Н	-51.42	-10.96	-62.38	-13.00	-49.38
451.52	Н	-55.74	-9.64	-65.38	-13.00	-52.38
695.85	Н	-57.15	-6.18	-63.33	-13.00	-50.33
966.16	Н	-61.43	-3.10	-64.53	-13.00	-51.53

- 2. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 3. 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.



Compliance Certification Services Inc.

Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Date of Issue : April 11,2012

Operation Mode:	WCDMA Band V / TX / CH 4233	Test Date:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
261.26	V	-48.71	-13.71	-62.42	-13.00	-49.42
400.25	V	-48.20	-11.22	-59.42	-13.00	-46.42
497.16	V	-53.55	-8.40	-61.95	-13.00	-48.95
533.24	V	-56.84	-8.01	-64.85	-13.00	-51.85
695.26	V	-51.25	-6.25	-57.50	-13.00	-44.50
797.25	V	-60.11	-4.98	-65.09	-13.00	-52.09
114.42	Н	-50.23	-14.27	-64.50	-13.00	-51.50
161.21	Н	-49.33	-14.15	-63.48	-13.00	-50.48
262.23	Н	-50.23	-14.06	-64.29	-13.00	-51.29
400.24	Н	-51.47	-10.91	-62.38	-13.00	-49.38
497.26	Н	-49.25	-8.28	-57.53	-13.00	-44.53
695.37	Н	-58.70	-6.18	-64.88	-13.00	-51.88

- 3. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 4. 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.



Compliance Certification Services Inc.

Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Date of Issue : April 11,2012

Above 1GHz

Operation Mode:	GPRS 850 / TX / CH 128	Test Date:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
1678.50	V	-52.11	0.73	-51.38	-13.00	-38.38
6955.30	V	-53.10	13.76	-39.34	-13.00	-26.34
1678.40	Н	-54.25	0.84	-53.41	-13.00	-40.41
6673.45	Н	-59.21	12.80	-46.41	-13.00	-33.41

- 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:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
1678.75	V	-50.44	0.73	-49.71	-13.00	-36.71
6950.25	V	-55.24	13.76	-41.48	-13.00	-28.48
1675.20	Н	-55.12	0.84	-54.28	-13.00	-41.28
6675.24	Н	-61.32	12.80	-48.52	-13.00	-35.52
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- 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Operation Mode:	GPRS 850 / TX / CH 251	Test Date:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
1398.12	V	-58.75	0.05	-58.70	-13.00	-45.70
5688.24	V	-60.12	9.95	-50.17	-13.00	-37.17
1395.68	Н	-52.30	0.90	-51.40	-13.00	-38.40
5241.30	Н	-60.45	10.22	-50.23	-13.00	-37.23

- 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC Date of Issue : April 11,2012

Operation Mode:	GPRS 1900 / TX / CH 512	Test Date:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
5395.50	V	-55.20	9.86	-45.34	-13.00	-32.34
7133.35	V	-55.25	14.34	-40.91	-13.00	-27.91
5437.35	Н	-51.30	10.24	-41.06	-13.00	-28.06
7621.25	Н	-52.30	16.14	-36.16	-13.00	-23.16
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- 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:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
5640.50	V	-58.75	9.94	-48.81	-13.00	-35.81
7348.25	V	-61.36	14.97	-46.39	-13.00	-33.39
5640.20	Н	-52.35	10.28	-42.07	-13.00	-29.07
6807.10	Н	-61.00	13.34	-47.66	-13.00	-34.66

- 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC Date of Issue : April 11,2012

Operation Mode:	GPRS 1900 / TX / CH 810	Test Date:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
4761.20	V	-61.55	8.99	-52.56	-13.00	-39.56
7075.10	V	-61.12	14.17	-46.95	-13.00	-33.95
5192.10	Н	-55.21	10.22	-44.99	-13.00	-31.99
7033.10	Н	-55.23	14.23	-41.00	-13.00	-28.00
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- 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Operation Mode:	HSDPA Band V / TX / CH 4132	Test Date:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
2499.20	V	-59.35	3.61	-55.74	-13.00	-42.74
7796.30	V	-61.20	16.19	-45.01	-13.00	-32.01
2498.30	Н	-61.38	3.91	-57.47	-13.00	-44.47
7399.12	Н	-61.36	15.48	-45.88	-13.00	-32.88

- 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC Date of Issue : April 11,2012

Operation Mode:	WCDMA / HSDPA Band V / TX / CH 4182	Test Date:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
1671.26	V	-55.30	0.73	-54.57	-13.00	-41.57
7736.26	V	-56.20	3.66	-52.54	-13.00	-39.54
4954.50	Н	-60.30	10.14	-50.16	-13.00	-37.16
7377.50	Н	-61.25	15.41	-45.84	-13.00	-32.84

- 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.



Report NoKS120314A01-RP1 FCC ID: FEOV6DC

Operation Mode:	WCDMA / HSDPA Band V / TX / CH 4233	Test Date:	April 10,2012
Temperature:	21°C	Tested by:	Sean
Humidity:	53 % RH	Polarity:	Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
1699.30	V	-54.60	0.79	-53.81	-13.00	-40.81
2546.50	V	-55.50	3.77	-51.73	-13.00	-38.73
1700.50	Н	-56.42	0.90	-55.52	-13.00	-42.52
4597.35	Н	-51.36	9.69	-41.67	-13.00	-28.67

- 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.

Report NoKS120314A01-RP1

FCC ID: FEOV6DC

Date of Issue: April 11,2012

7.7. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

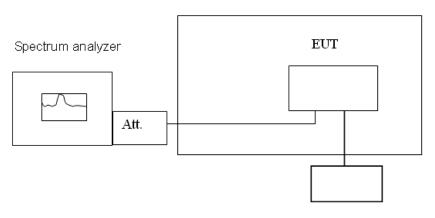
LIMIT

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

Frequency Tolerance: 2.5 ppm

TEST CONFIGURATION

Temperature Chamber



Variable Power Supply

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	2.5 ppm = 2091.5 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)		
	45	836600027	27			
	40	836600031	31			
	30	836600023	23			
3.7	20	836599985	0	2091.5		
3.7	10	836600026	26	2091.5		
	0	836600027	27			
	-5	836600036	36			
	-10	836600038	38			

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)	
	45	1879999983	-17		
	40	1879999983	-17		
	30	1879999979	-21		
3.7	20	1880000015	0	4700	
3.7	10	1879999991	-9	4700	
	0	1879999977	-23		
	-5	1879999982	-18		
	-10	1879999986	-14		

Reference Frequency: GPRS Mid Channel 836.6 MHz @ 20°C					
	Limit: +/	- 2.5 ppm = 2090 Hz			
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
	45	83660018	33		
	40	83660020	35		
	30	83660024	39		
2.7	20	83659985	0	2090	
3.7	10	83660014	29	2090	
	0	83660017	32		
	-5	83660010	25		
	-10	83660023	38		



Reference Frequency: GPRS Mid Channel 1880 MHz @ 20°C					
	Limit: ±	2.5 ppm = 4700 Hz			
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
	45	1880000050	96		
	40	1880000047	93		
	30	1880000051	97		
3.7	20	1879999954	0	4700	
3.7	10	1880000045	91	4700	
	0	1880000052	98		
	-5	1880000047	93		
	-10	1880000051	97		

Reference Frequency: EDGE Mid Channel 836.6 MHz @ 20°C								
	Limit: +/- 2.5 ppm = 2090 Hz							
Power Supply Vac	Environment Temperature (°C)	' '						
	45	83660001	12					
	40 30	83660007	18					
		83659999	10					
3.7	20	83659989	0	2090				
3.7	10	83660002	13	2090				
	0	83660004	15					
	-5	83660006	17					
	-10	83660003	14					

Reference Frequency: EDGE Mid Channel 1880 MHz @ 20°C						
	Limit: ± 2	2.5 ppm = 4700 Hz	7			
Power Supply Vac	Environment Temperature (°C)	Limit (Hz)				
	45	1880000030	64			
	3.7 20 10 0 -5	1880000029	63			
		1880000032	66			
2.7		1879999966	0	4700		
3.7		1880000027	61	4700		
		1880000031	65			
		1880000028	62			
	-10	1880000024	58			



Compliance Certification Services Inc. Report NoKS120314A01-RP1 FCC ID: FEOV6DC Date of Issue:

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Reference Frequency: HSDPA Band V Mid Channel 836.6 MHz @ 20°C								
	Limit: +/- 2.5 ppm = 2090 Hz							
Power Supply Vac	Environment Temperature (°C)	Limit (Hz)						
	45	83660001	12					
	3.7 20 10 0 -5	83660007	18					
		83659999	10					
2.7		83659989	0	2090				
3.7		83660002	13	2090				
		83660004	15					
		83660006	17					
	-10	83660003	14					

Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 20°C								
	Limit: +/-	- 2.5 ppm = 2090 Hz						
Power Supply Vac	Environment Temperature (°C)							
	45	83639998	14					
	3.7 40 30 20 10 0	83640001	17					
		83640013	29					
2.7		83639984	0	2090				
3.7		83640000	16	2090				
		83639996	12					
	-5	83640018	34					
	-10	83640014	30					

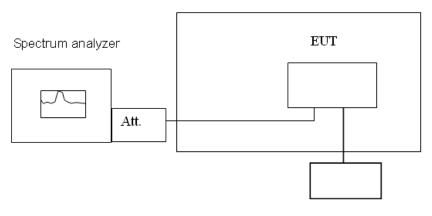
7.8. REQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

LIMIT

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

TEST CONFIGURATION

Temperature Chamber



Variable Power Supply

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: GPRS Mid Channel 836.6 MHz @ 20°C						
	Limit: ± 2.5 ppm = 2090Hz					
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)		
4.2		83599987	2			
3.7	20	83599985	0	2090		
3.6 end		83599982	-3			

Reference Frequency: GPRS Mid Channel 1880 MHz @ 20°C						
	Limit: ± 2.5 ppm = 4700 Hz					
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)		
4.2		1879999950	-4			
3.7	20	1879999954	0	4700		
3.6 end		1879999951	-3			

Reference Frequency: EDGE Mid Channel 836.6 MHz @ 20°C						
	Limit: ± 2.5 ppm = 2090Hz					
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)		
4.2		83599999	10			
3.7	20	83599989	0	2090		
3.6 end		83599993	4			

Reference Frequency: EDGE Mid Channel 1880 MHz @ 20°C						
	Limit: ± 2.5 ppm = 4700 Hz					
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)		
4.2		1879999974	8			
3.7	20	1879999966	0	4700		
3.6 end		1879999973	7			

Reference Frequency: HSDPA Band V Mid Channel 836.6 MHz @ 20°C						
Limit: ± 2.5 ppm = 2090Hz						
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)		
4.2		83599986	1			
3.7	20	83599985	0	2090		
3.6 end		83599999	14			

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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 (dBμV)			
rrequeries range (milz)	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

- 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.
- Repeat above procedures until all frequency measured were complete. 3.



80.0

dBuV

Compliance Certification Services Inc.

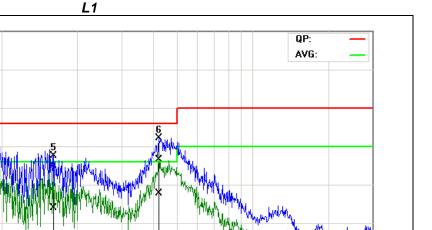
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TEST RESULTS

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:	April 10,2012
Temperature:	23°C	Tested by:	Sean
Humidity:	50% RH		



No.	Frequ ency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Rem ark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.2682	41.54	34.31	10.22	51.76	44.53	61.17	51.17	-9.41	-6.64	Pass
2	0.3738	37.01	28.69	10.37	47.38	39.06	58.42	48.42	-11.04	-9.36	Pass
3	0.5282	35.92	21.64	10.84	46.76	32.48	56.00	46.00	-9.24	-13.52	Pass
4	0.8923	37.14	27.11	11.00	48.14	38.11	56.00	46.00	-7.86	-7.89	Pass
5	1.5936	33.80	22.84	11.06	44.86	33.90	56.00	46.00	-11.14	-12.10	Pass
6	4.2619	35.28	26.56	11.16	46.44	37.72	56.00	46.00	-9.56	-8.28	Pass

(MHz)

Remark:

0.0

0.150

Measuring frequencies from 0.15 MHz to 30MHz. 1.

0.5

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

AVG

30.000



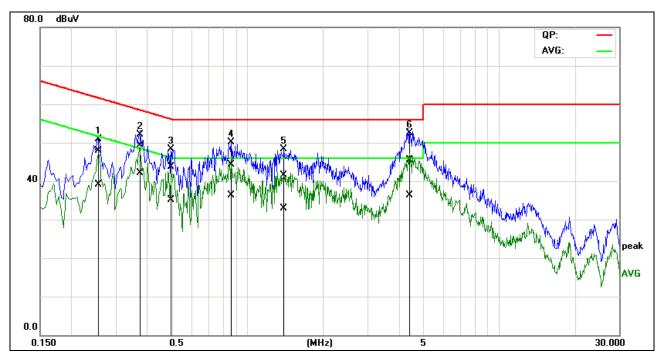
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L2



No.	Frequ ency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Rem ark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.2564	37.72	28.88	10.20	47.92	39.08	61.55	51.55	-13.63	-12.47	Pass
2*	0.3775	38.96	31.64	10.38	49.34	42.02	58.33	48.33	-8.99	-6.31	Pass
3	0.4965	32.85	24.36	10.81	43.66	35.17	56.06	46.06	-12.40	-10.89	Pass
4	0.8609	33.27	25.21	11.00	44.27	36.21	56.00	46.00	-11.73	-9.79	Pass
5	1.3868	30.42	21.88	11.05	41.47	32.93	56.00	46.00	-14.53	-13.07	Pass
6	4.3854	34.41	25.23	11.17	45.58	36.40	56.00	46.00	-10.42	-9.60	Pass

Remark:

- 5. Measuring frequencies from 0.15 MHz to 30MHz.
- 6. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 7. 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;
- 8. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)
- "-" means Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessay

END OF REPORT