

FCC Report (GSM&WCDMA)

Applicant: Gasei S.A.

Address of Applicant: Los Conquistadores 2068 Providencia Santiago-Chile

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: G5500

FCC ID: 2AEWP-G5500

Applicable standards: FCC CFR Title 47 Part 2: 2014
FCC CFR Title 47 Part22 Subpart H: 2014
FCC CFR Title 47 Part24 Subpart E: 2014

Date of sample receipt: May 19, 2015

Date of Test: May 20-22, 2015

Date of report issued: May 25, 2015

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

A circular blue ink stamp from GTS Global United Technology Services Co., Ltd. is visible. The stamp contains the text "GTS", "GLOBAL TESTING", and "GLOBAL UNITED TECHNOLOGY SERVICES CO., LTD." around the perimeter. A handwritten signature in black ink is written over the stamp.

Robinson Lo

Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	May 25, 2015	Original

Prepared By:

Edward Pan

Date:

May 25, 2015

Project Engineer

Check By:

Hank Yan

Date:

May 25, 2015

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Pass* (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 22.913 (a)(2) Part 24.232 (c)	Pass
Modulation Characteristics	Part 2.1047	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917 Part 24.238	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 (a) Part 24.238 (a)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a)	Pass
Out of band emission, Band Edge	Part 22.917 (a) Part 24.238 (a)	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2)	Pass

Pass: The EUT complies with the essential requirements in the standard.

5 General Information

5.1 Client Information

Applicant:	Gasei S.A.
Address of Applicant:	Los Conquistadores 2068 Providencia Santiago-Chile
Manufacturer/Factory:	Huizhou Hengdu Electronics Co., Ltd
Address of Manufacturer/Factory:	DIP South Area, Huiao Highway, Huizhou, Guangdong, China

5.2 General Description of EUT

Product Name:	Mobile Phone
Model No.:	G5500
Support Networks:	GSM, GPRS, EGPRS, WCDMA
Support Bands:	GSM850, PCS1900, WCDMA Band II, Band V
TX Frequency:	GSM850: 824.20MHz-848.80MHz PCS1900: 1850.20MHz-1909.80MHz WCDMA Band II: 1852.40MHz -1907.60MHz WCDMA Band V: 826.40MHz -846.60MHz
GPRS/EGPRS Class:	12
Modulation type:	GSM/GPRS: GMSK EGPRS: GMSK/8PSK WCDMA Band II/V: QPSK
IMEI:	355287000474480 355287000456457
Hardware Version:	S17E-ZX-Android4.4.2-150430
Software Version:	Android 4.4.2
Antenna type:	PIFA antenna
Antenna gain:	2.5dBi (declare by Applicant)
Power supply:	Adapter: Model No.: OV-VERTIS Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 1.0A or DC 3.7V Li-ion Battery

Operation Frequency List:

GSM 850		PCS1900		WCDMA Band V		WCDMA Band II	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
128	824.20	512	1850.20	4132	826.40	9262	1852.40
129	824.40	513	1850.40	4133	826.60	9263	1852.60
· ∴	· ∴	· ∴	· ∴	· ∴	· ∴	· ∴	· ∴
189	836.40	660	1879.80	4181	836.20	9399	1879.80
190	836.60	661	1880.00	4182	836.40	9400	1880.00
191	836.80	662	1880.20	4183	836.60	9401	1880.20
· ∴	· ∴	· ∴	· ∴	· ∴	· ∴	· ∴	· ∴
250	848.60	809	1909.60	4232	846.40	9537	1907.40
251	848.80	810	1909.80	4233	846.60	9538	1907.60

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Final test channel:

GSM 850		PCS1900		WCDMA Band V		WCDMA Band II	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
128	824.20	512	1850.20	4132	826.40	9262	1852.40
190	836.60	661	1880.00	4183	836.60	9400	1880.00
251	848.80	810	1909.80	4233	846.60	9538	1907.60

5.3 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

5.4 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA 603 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

5.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS —Registration No.: CNAS L5775**

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102

Tel: 0755-27798480

Fax: 0755-27798960

6 Test Instruments list

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 27 2015	Mar. 26 2016
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016
9	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016
10	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016
11	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 01 2014	June 30 2015
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015
15	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016
16	Universal radio communication tester	Rohde & Schwarz	CMU200	GTS235	May 08 2015	May 07 2016
17	Signal Generator	Rohde & Schwarz	SML03	GTS236	May 08 2015	May 07 2016
18	Temp. Humidity/Barometer	Oregon Scientific	BA-888	GTS248	May 08 2015	May 07 2016
19	D.C. Power Supply	Instek	PS-3030	GTS232	NA	NA
20	Splitter	Agilent	11636B	GTS237	May 08 2015	May 07 2016
21	Power meter	Rohde & Schwarz	NRVS	GTS238	May 08 2015	May 07 2016
22	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 4 2014	Dec. 3 2015
23	Temp.&Humidity chamber	Chuang wei	GDS-225	GTS005-1	May 06 2015	May 05 2016
24	Highpass filter	Micro-Tronics	HPM50108	GTS549	Mar. 28 2015	Mar. 27 2016
25	Highpass filter	Micro-Tronics	HPM50111	GTS550	Mar. 28 2015	Mar. 27 2016

7 System test configuration

7.1 Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes		
Band	Radiated	Conducted
GSM 850	<ul style="list-style-type: none"> ■ GSM link ■ GPRS 1 link ■ EPRS 1 link 	<ul style="list-style-type: none"> ■ GSM link ■ GPRS 1 link ■ EGPRS 1 link
PCS 1900	<ul style="list-style-type: none"> ■ GSM link ■ GPRS 1 link ■ EGPRS 1 link 	<ul style="list-style-type: none"> ■ GSM link ■ GPRS 1 link ■ EGPRS 1 link
WCDMA II	<ul style="list-style-type: none"> ■ RMC 12.2Kbps link 	<ul style="list-style-type: none"> ■ RMC 12.2Kbps link
WCDMA Band V	<ul style="list-style-type: none"> ■ RMC 12.2Kbps link 	<ul style="list-style-type: none"> ■ RMC 12.2Kbps link

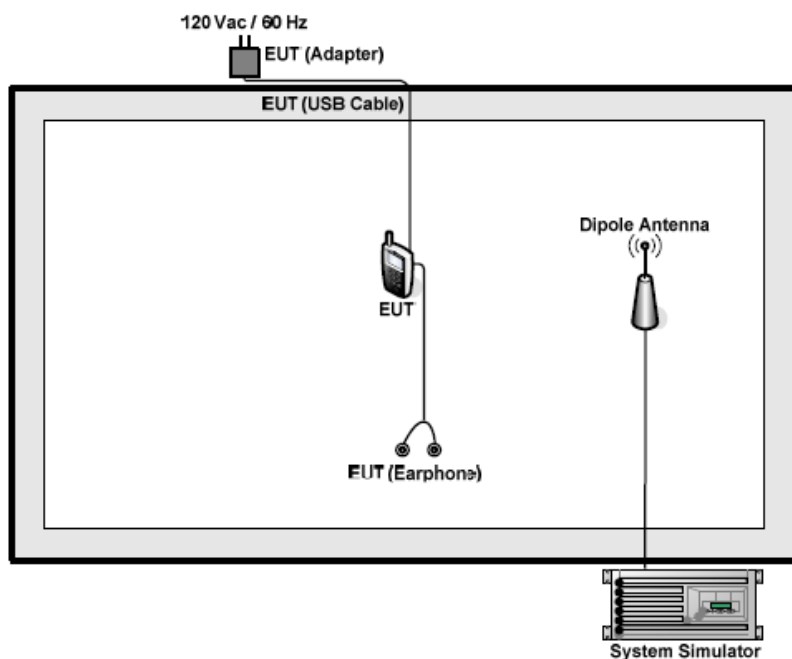
Note: The maximum power levels are GSM mode for GMSK link, GPRS multi-slot class 4 mode for GMSK link, EGPRS multi-slot class 8 mode for 8PSK link, RMC12.2Kbps mode for WCDMA Band V and Band II. only these modes were used for all tests.

The conducted power tables are as follows:

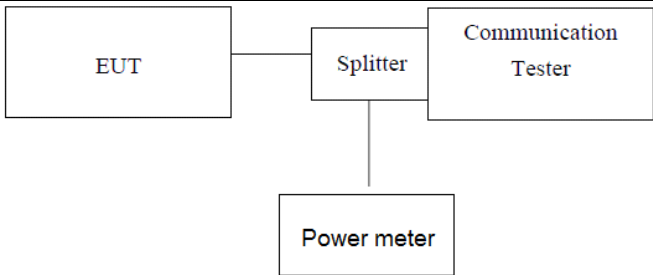
Conducted Power (dBm)						
Band	GSM850			PCS1900		
Channel	128	190	251	512	661	810
Frequency	824.20	836.60	848.80	1850.20	1880.00	1909.80
GSM (GMSK, 1 TX slot)	32.64	32.44	32.58	28.54	28.67	28.93
GPRS (GMSK, 1 TX slot)	32.61	32.42	32.51	28.52	28.64	28.75
GPRS (GMSK, 2 TX slot)	31.72	31.46	31.74	27.49	27.62	27.73
GPRS (GMSK, 3 TX slot)	30.42	30.23	30.37	26.59	26.45	26.66
GPRS (GMSK, 4 TX slot)	29.30	29.19	29.34	25.58	25.56	25.61
EGPRS (8PSK, 1 TX slot)	29.96	29.99	29.85	24.86	24.95	24.88
EGPRS (8PSK, 2 TX slot)	28.95	28.93	28.95	23.87	23.89	23.77
EGPRS (8PSK, 3 TX slot)	27.86	27.82	27.84	22.84	22.83	22.74
EGPRS (8PSK, 4 TX slot)	26.79	26.67	26.74	21.81	21.69	21.62

Conducted Power (dBm)						
Band	WCDMA Band II			WCDMA Band V		
Channel	9262	9400	9538	4132	4183	4233
Frequency	1852.4	1880.0	1907.6	826.4	836.6	846.6
RMC 12.2Kbps	22.01	21.85	21.62	22.35	22.42	22.33
HSDPA Subtest-1	21.34	20.79	20.67	22.09	22.16	22.27
HSDPA Subtest-2	20.68	20.59	20.78	20.32	20.65	20.63
HSDPA Subtest-3	20.43	20.62	20.59	20.24	20.35	20.38
HSDPA Subtest-4	20.67	20.85	20.78	19.17	19.42	20.46
HSUPA Subtest-1	21.26	20.67	20.64	21.95	21.93	22.05
HSUPA Subtest-2	20.58	20.36	20.52	20.65	20.32	20.68
HSUPA Subtest-3	20.37	20.85	20.49	20.61	20.50	20.34
HSUPA Subtest-4	20.26	20.84	20.32	20.12	20.33	20.68
HSUPA Subtest-5	20.12	20.33	20.24	20.04	20.11	20.28
AMR	20.87	20.41	20.31	21.82	21.67	21.75

7.2 Configuration of Tested System



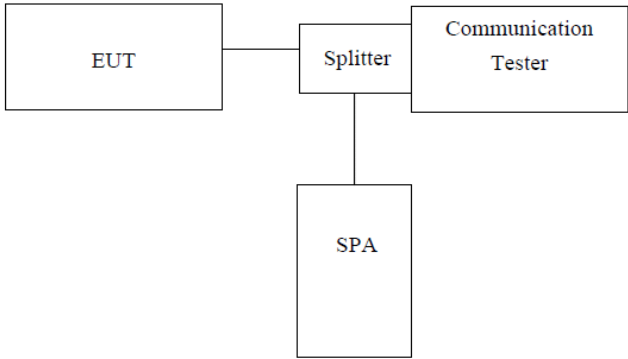
7.3 Conducted Peak Output Power

Test Requirement:	FCC part22.913(a) and FCC part24.232(b)
Test Method:	FCC part2.1046
Limit:	GSM850,: 7W PCS1900, WCDMA Band V: 2W
Test setup:	 <p><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test Procedure:	<ol style="list-style-type: none"> 1. The transmitter output port was connected to base station. 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement. 3. Set EUT at maximum power through base station. 4. Select lowest, middle, and highest channels for each band and different modulation. 5. Measure the maximum burst average power.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

EUT Mode	Channel	Frequency (MHz)	PK power (dBm)
GSM 850 (GSM link)	128	824.20	32.64
	190	836.60	32.44
	251	848.80	32.58
GSM 850 (GPRS 1 link)	128	824.20	32.61
	190	836.60	32.42
	251	848.80	32.51
GSM 850 (EGPRS 1 link)	128	824.20	29.96
	190	836.60	29.99
	251	848.80	29.85
PCS 1900 (GSM link)	512	1850.20	28.54
	661	1880.00	28.67
	810	1909.80	28.93
PCS 1900 (GPRS 1 link)	512	1850.20	28.52
	661	1880.00	28.64
	810	1909.80	28.75
PCS 1900 (EGPRS 1 link)	512	1850.20	24.86
	661	1880.00	24.95
	810	1909.80	24.88
WCDMA Band V (RMC 12.2Kbps link)	4132	826.40	22.35
	4183	836.60	22.42
	4233	846.60	22.33
WCDMA Band II (RMC 12.2Kbps link)	9262	1852.40	22.01
	9400	1880.00	21.85
	9538	1907.60	21.62

7.4 Occupy Bandwidth

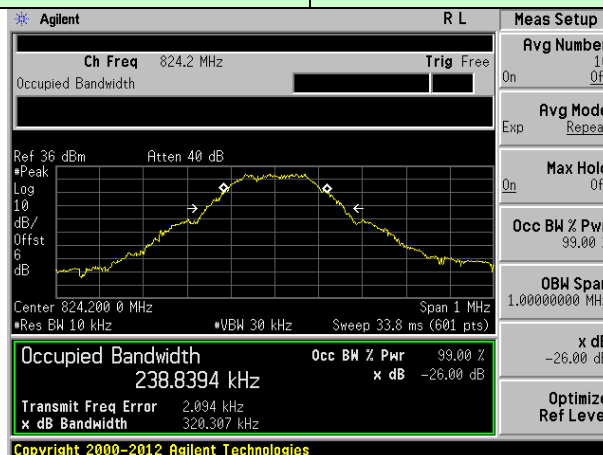
Test Requirement:	FCC part22.913(a) and FCC part24.232(b)
Test Method:	FCC part2.1049
Test setup:	 <p><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test Procedure:	<ol style="list-style-type: none"> 1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer 2. RBW was set to about 1% of emission BW, VBW= 3 times RBW. 3. -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 Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

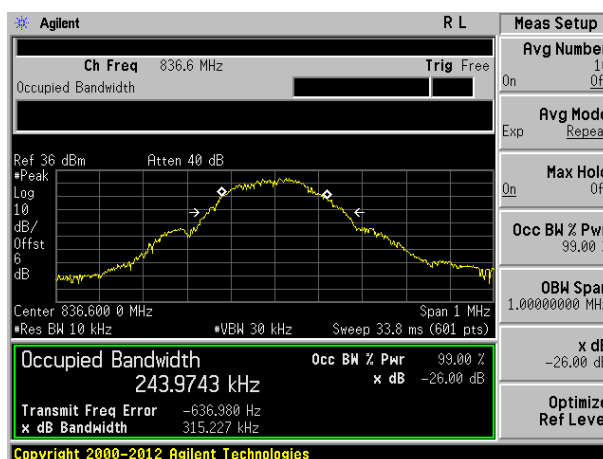
EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
GSM 850 (GSM link)	128	824.20	238.839	320.307
	190	836.60	243.974	315.227
	251	848.80	237.571	315.023
GSM 850 (GPRS 1 link)	128	824.20	249.535	310.529
	190	836.60	245.473	316.577
	251	848.80	247.121	315.752
GSM 850 (EGPRS 1 link)	128	824.20	246.682	320.750
	190	836.60	255.564	333.414
	251	848.80	249.019	320.271
PCS 1900 (GSM link)	512	1850.20	238.208	316.421
	661	1880.00	245.886	318.255
	810	1909.80	241.037	313.998
PCS 1900 (GPRS 1 link)	512	1850.20	252.293	321.218
	661	1880.00	237.274	311.097
	810	1909.80	236.509	315.375
PCS 1900 (EGPRS 1 link)	512	1850.20	247.787	311.265
	661	1880.00	252.658	336.296
	810	1909.80	249.488	321.235
WCDMA Band V (RMC 12.2Kbps link)	4132	826.40	4162.80	4694.00
	4183	836.60	4166.80	4695.00
	4233	846.60	4138.00	4689.00
WCDMA Band II (RMC 12.2Kbps link)	9262	1852.40	4171.70	4715.00
	9400	1880.00	4177.40	4731.00
	9538	1907.60	4196.30	4735.00

Test plot as follows:

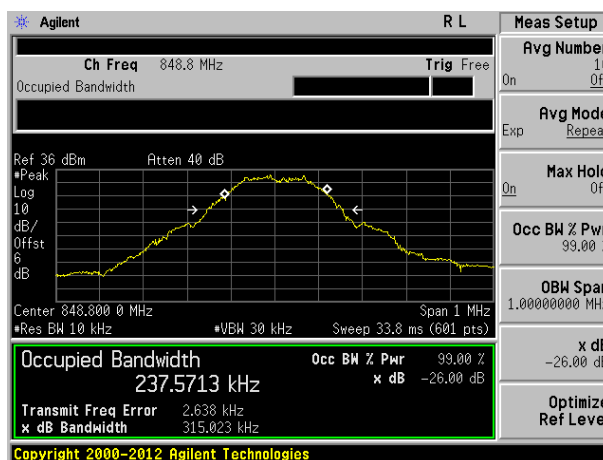
Test band:	GSM 850 (GSM link)
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Lowest channel

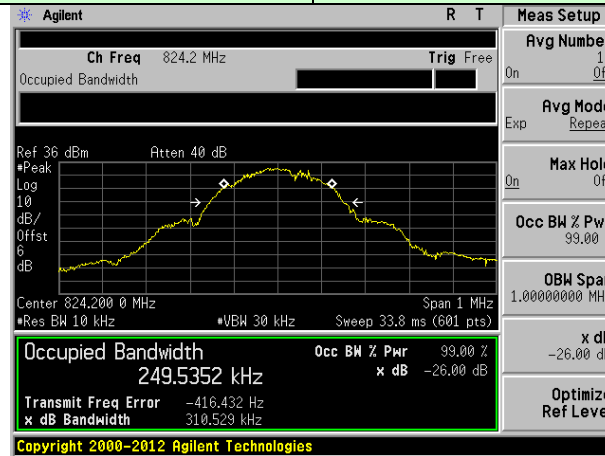


Middle channel

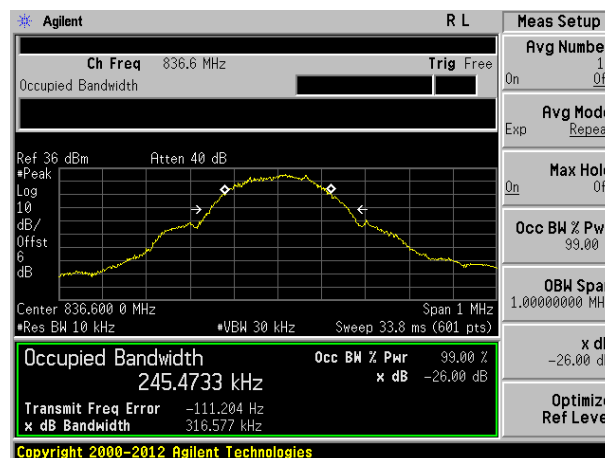


Highest channel

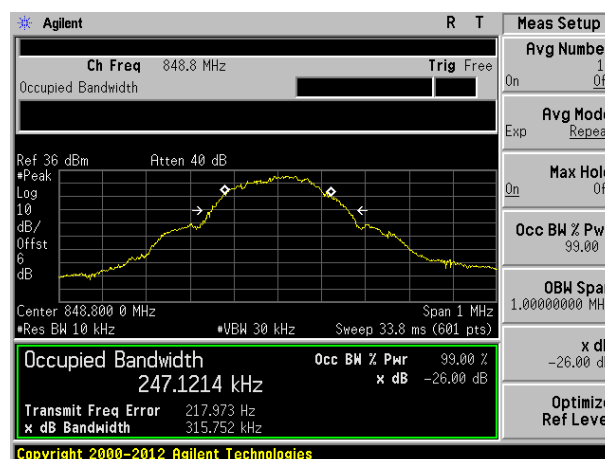
Test band:	GSM 850 (GPRS 1 link)
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Lowest channel

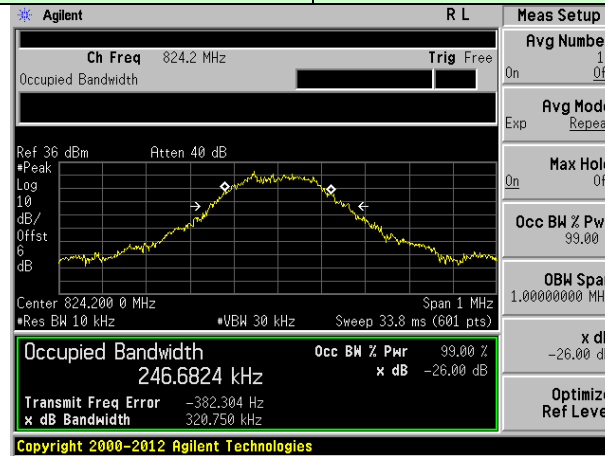


Middle channel

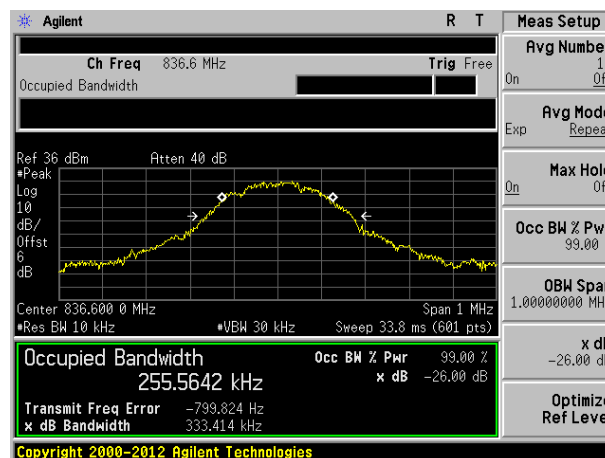


Highest channel

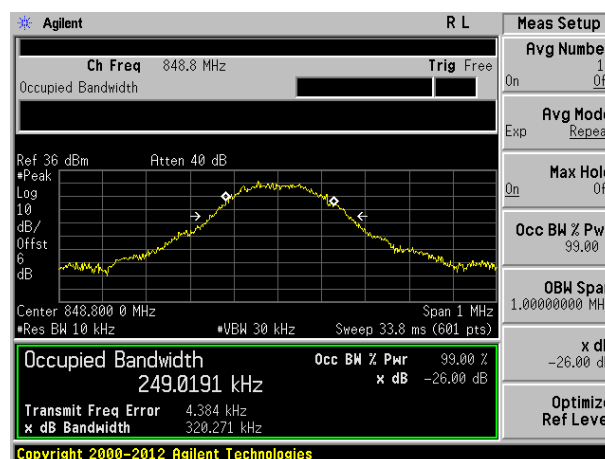
Test band:	GSM 850 (EGPRS 1 link)
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Lowest channel

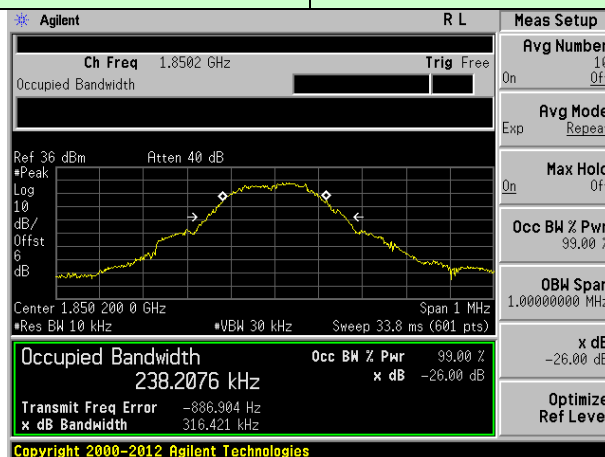


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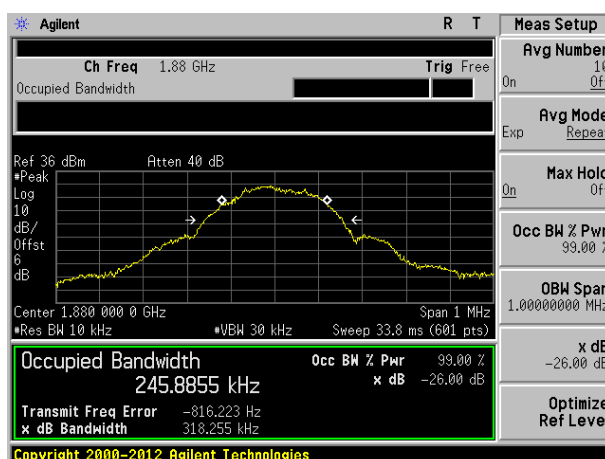


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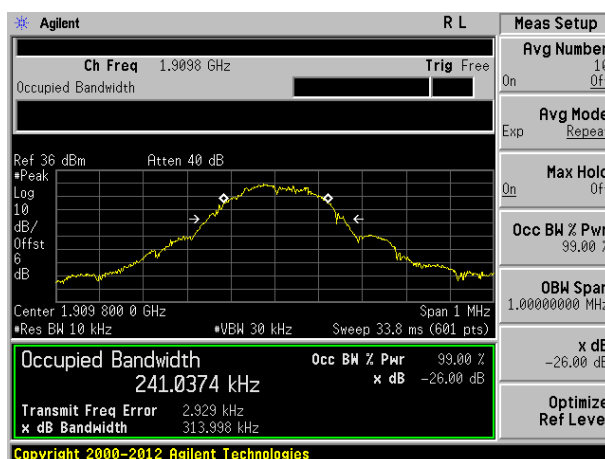
Test band:	PCS 1900 (GSM link)
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Lowest channel

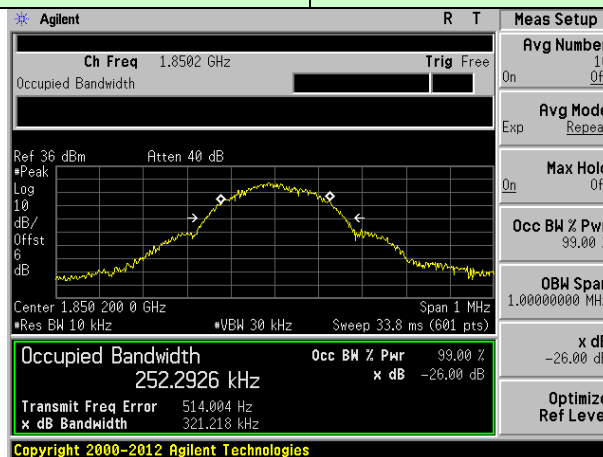


Middle channel

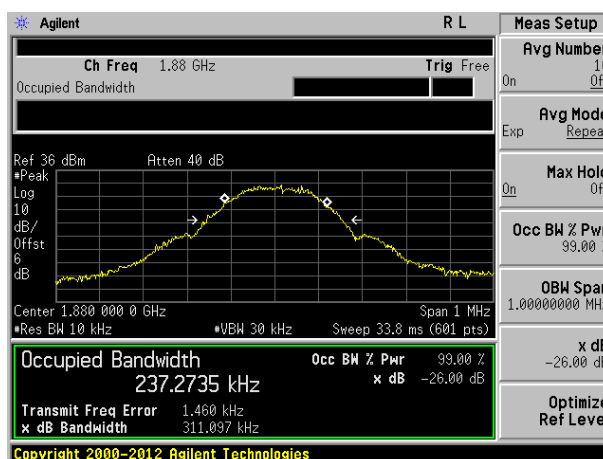


Highest channel

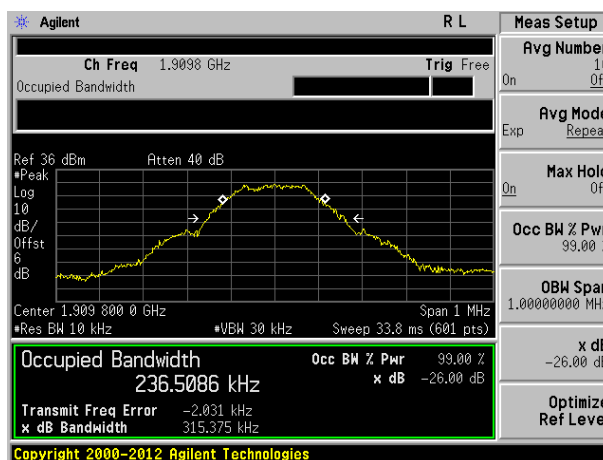
Test band:	PCS 1900 (GPRS 1 link)
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Lowest channel

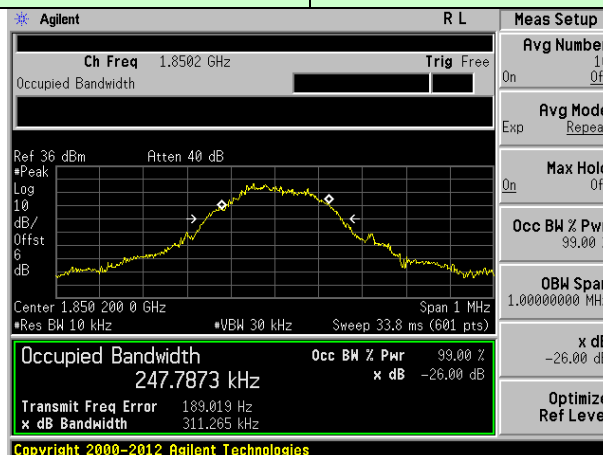


Middle channel

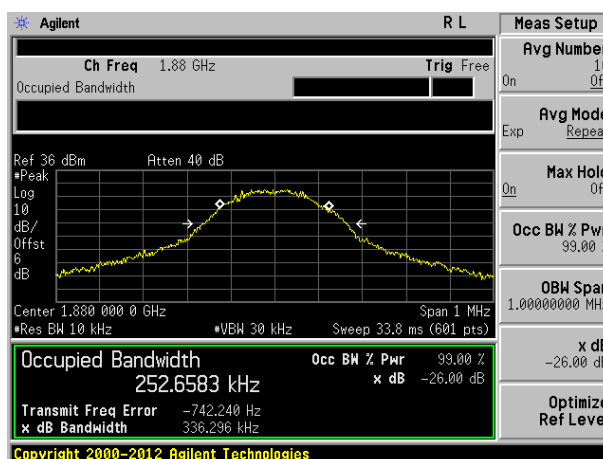


Highest channel

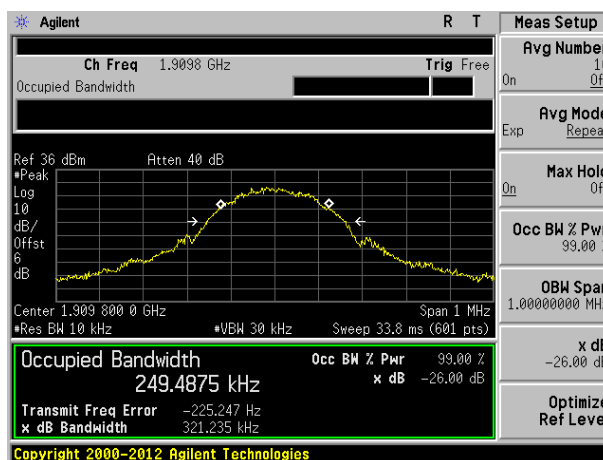
Test band:	PCS 1900 (EGPRS 1 link)
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Lowest channel

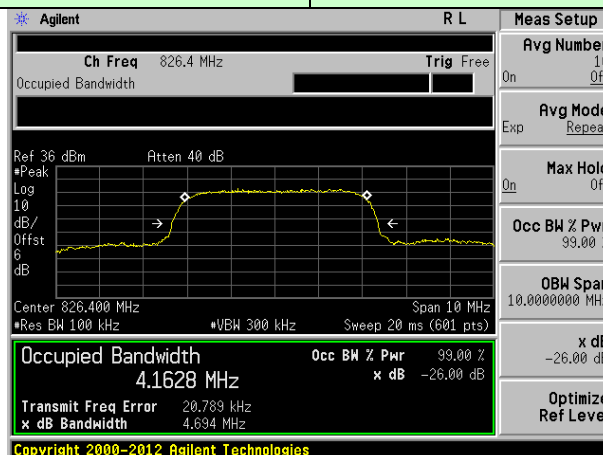


Middle channel

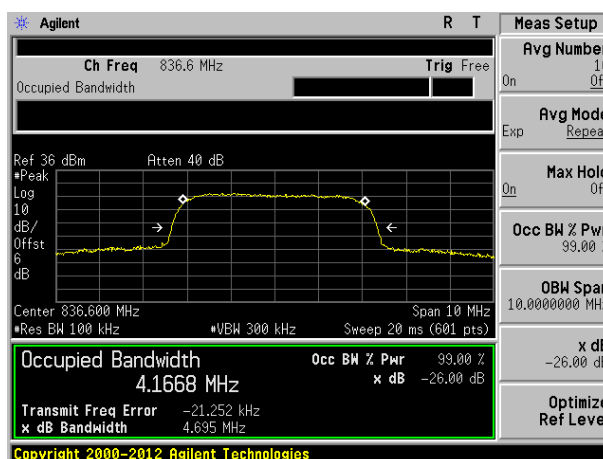


Highest channel

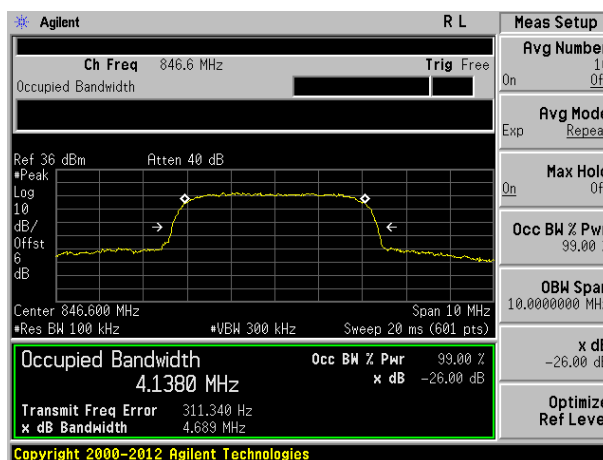
Test band:	WCDMA Band V (RMC 12.2Kbps link)
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Lowest channel

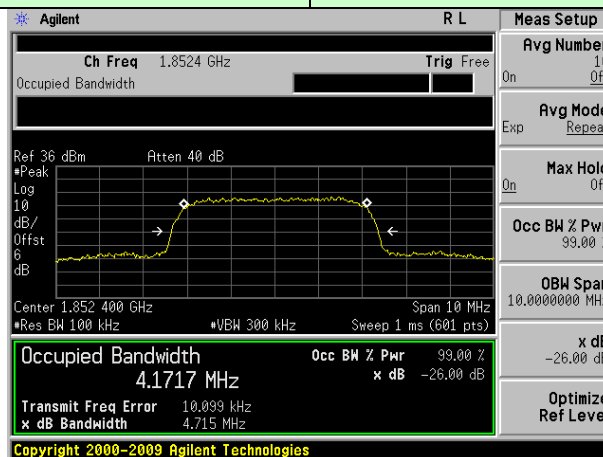


Middle channel

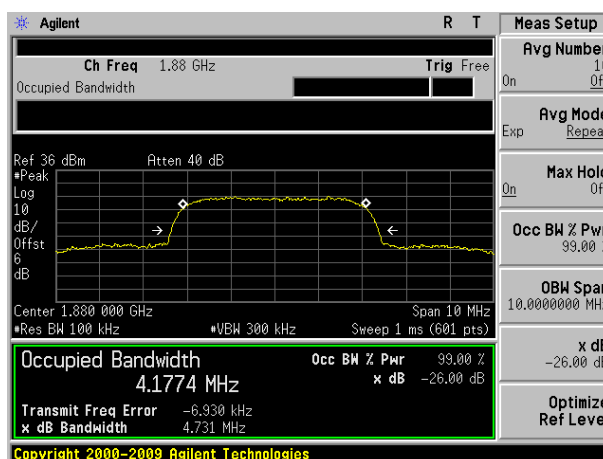


Highest channel

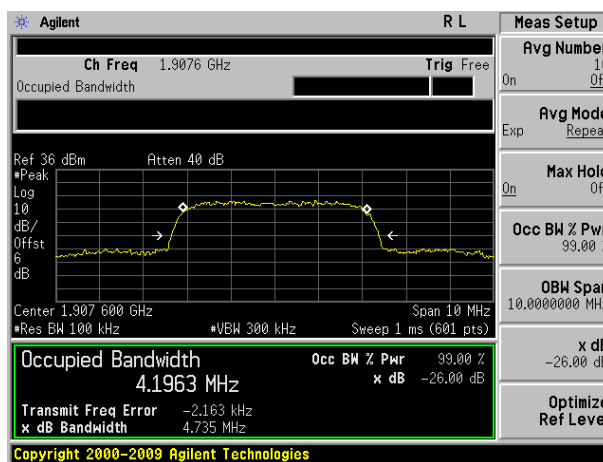
Test band:	WCDMA Band II (RMC 12.2Kbps link)
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Lowest channel



Middle channel

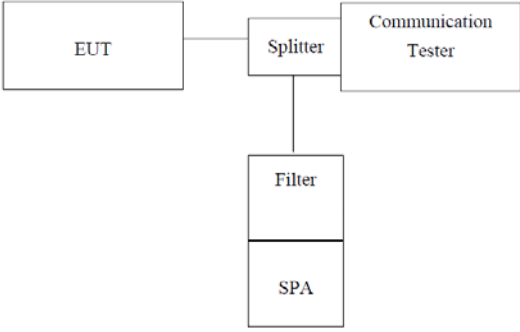


Highest channel

7.5 MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

7.6 Out of band emission at antenna terminals

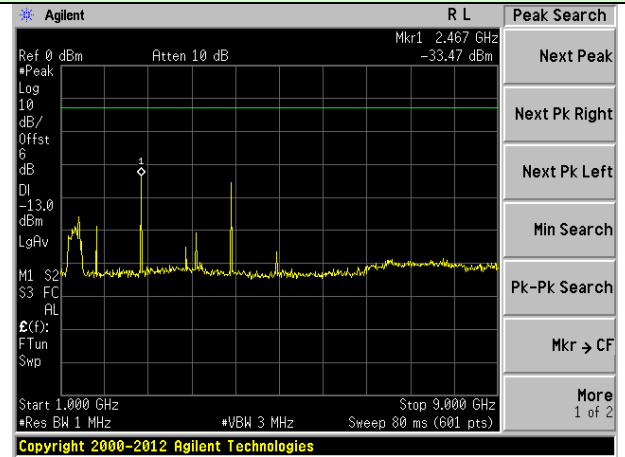
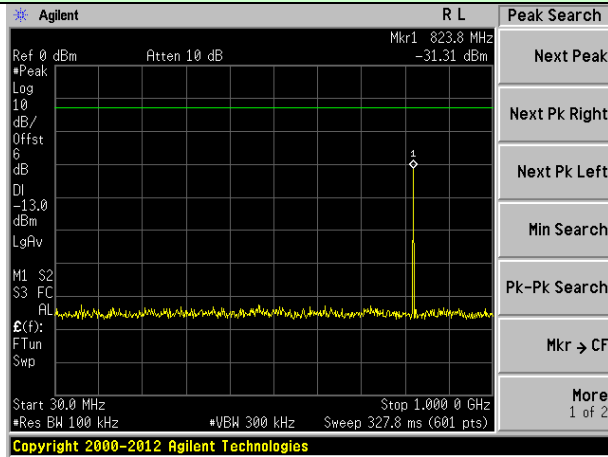
Test Requirement:	FCC part22.917(a) and FCC part24.238(a)
Test Method:	FCC part2.1051
Limit:	-13dBm
Test setup:	 <p><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test Procedure:	<ol style="list-style-type: none"> 1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 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. 3 For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic. 4 Band Edge Requirements: 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.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Test plot as follows:

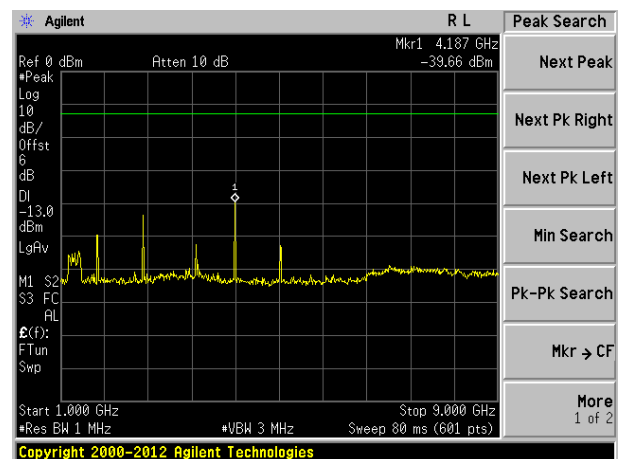
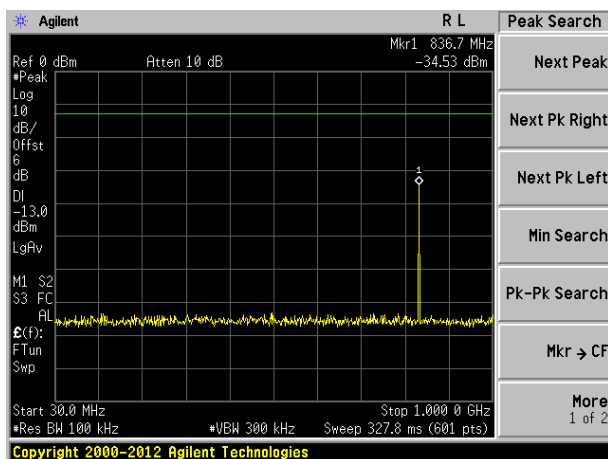
Note: During the conducted spurious emission test, a band filter was used. The information of the filter is reported at section 6.0 (refer to item 24, 25).

Test Mode: Traffic mode

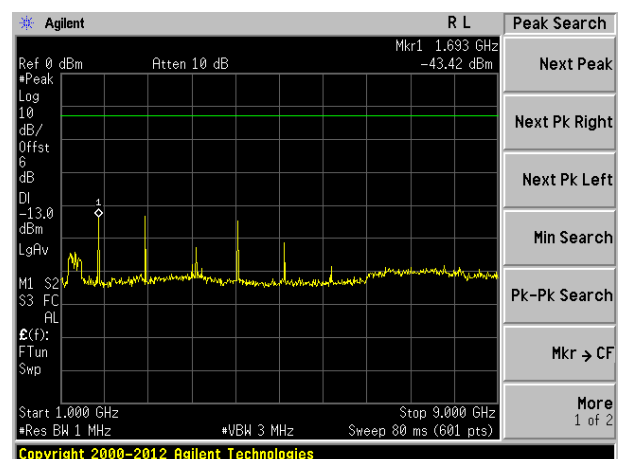
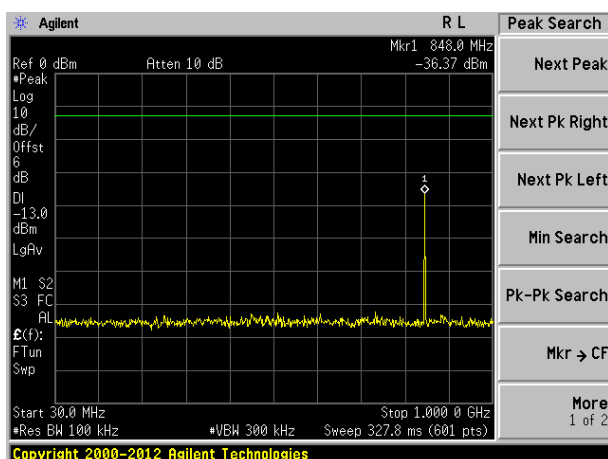
GSM 850 (GSM link)



Lowest channel



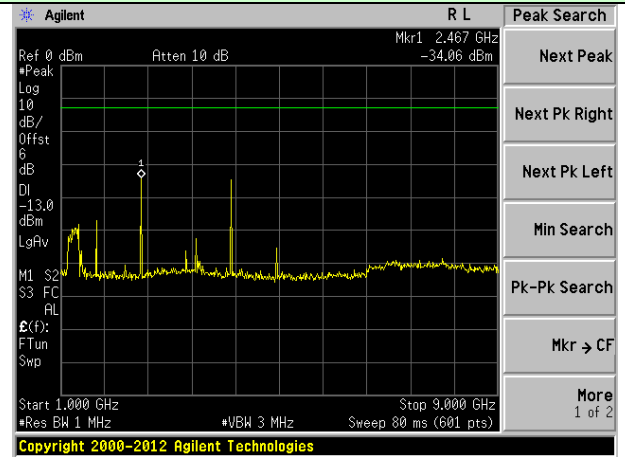
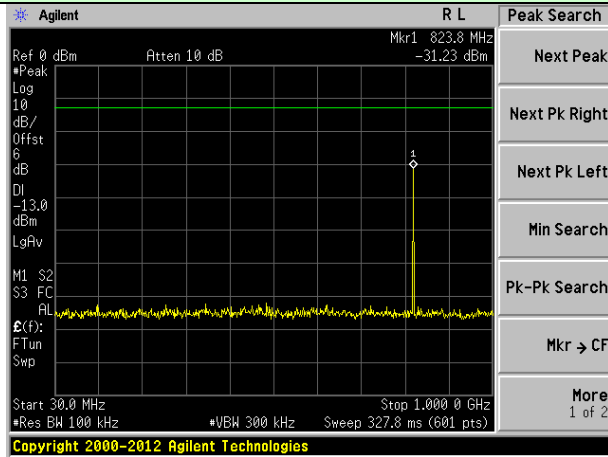
Middle channel



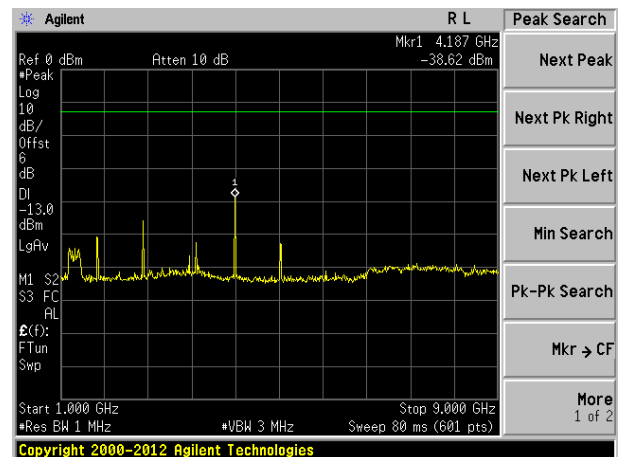
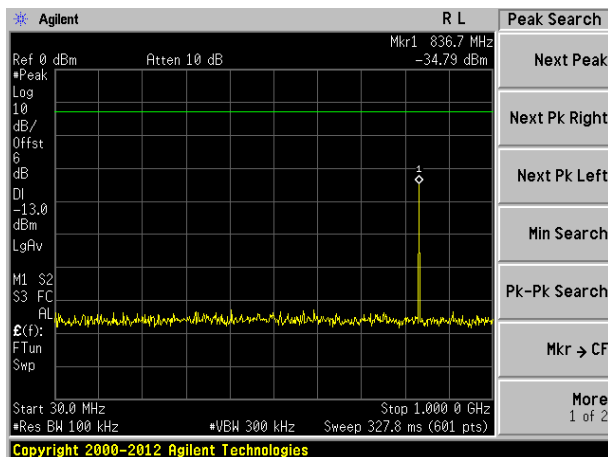
Highest channel

Test Mode: Traffic mode

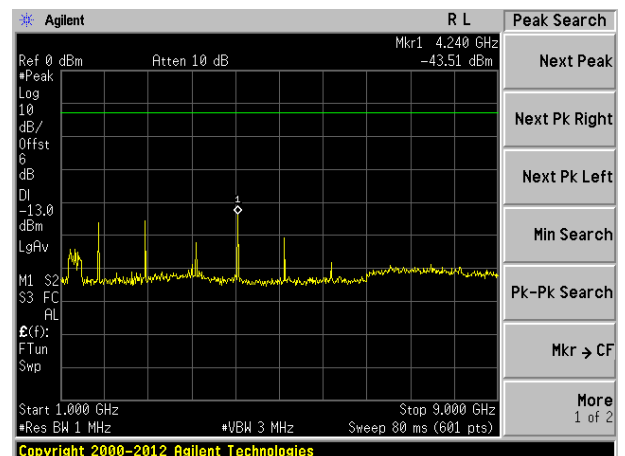
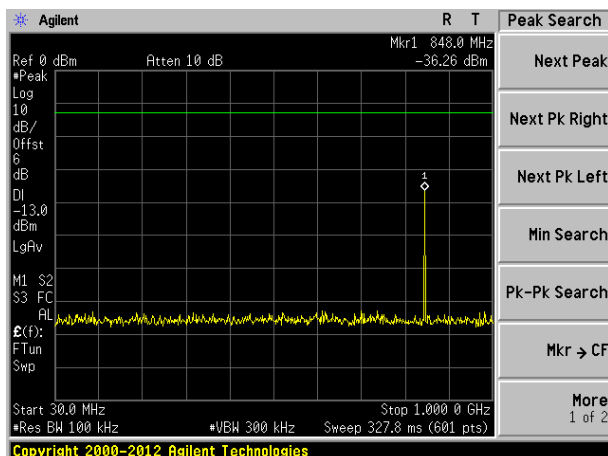
GSM 850 (GPRS 1 link)



Lowest channel



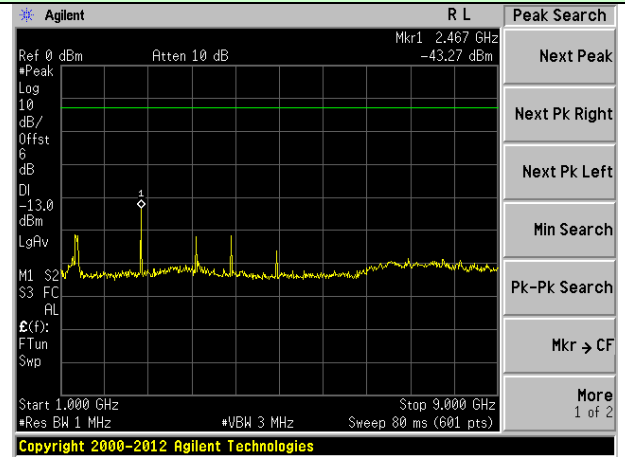
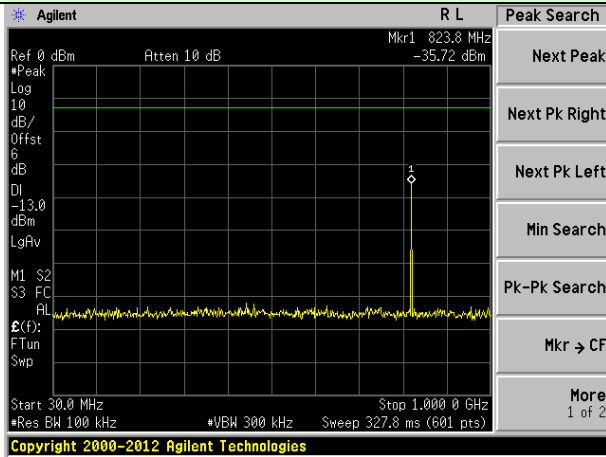
Middle channel



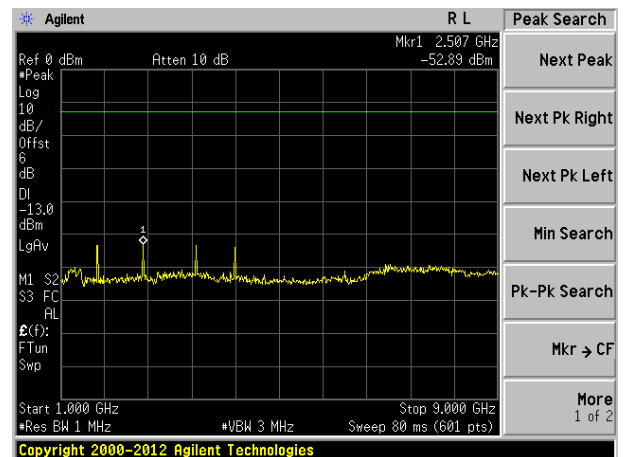
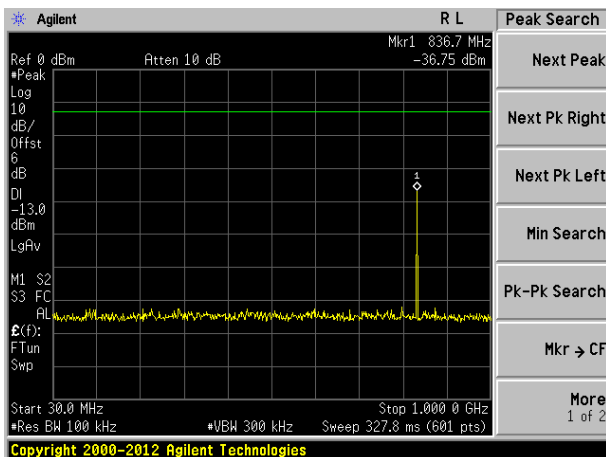
Highest channel

Test Mode: Traffic mode

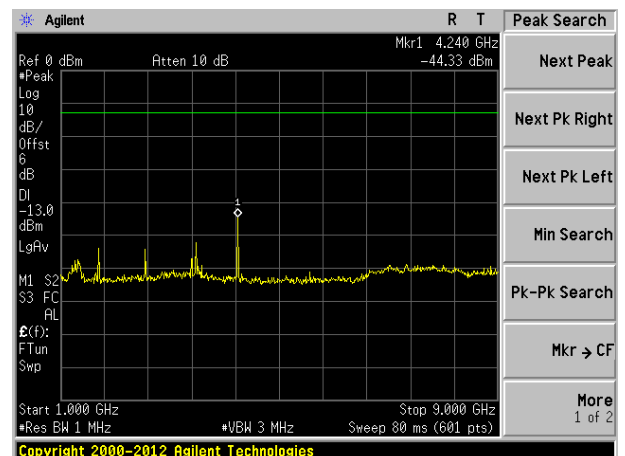
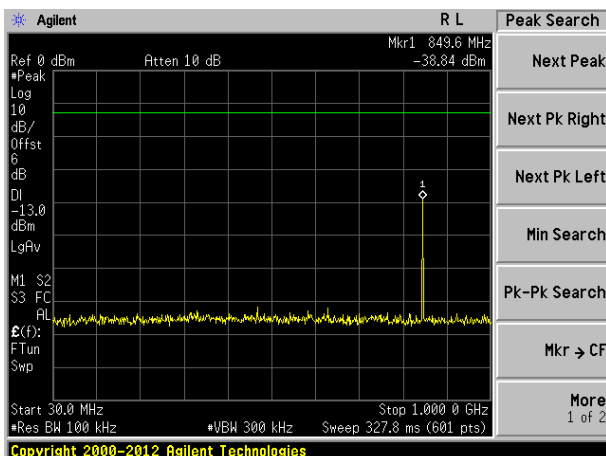
GSM 850 (EGPRS 1 link)



Lowest channel



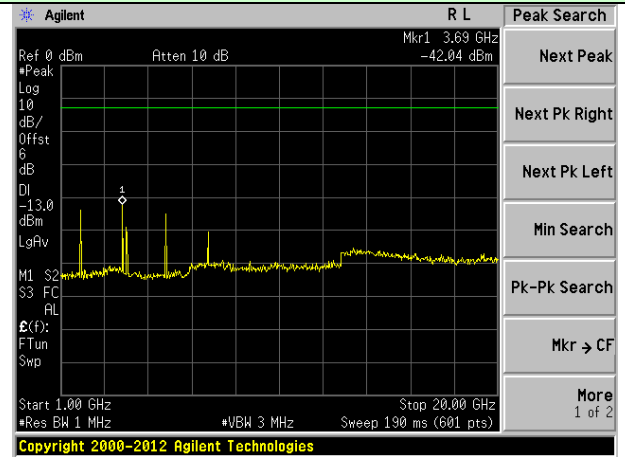
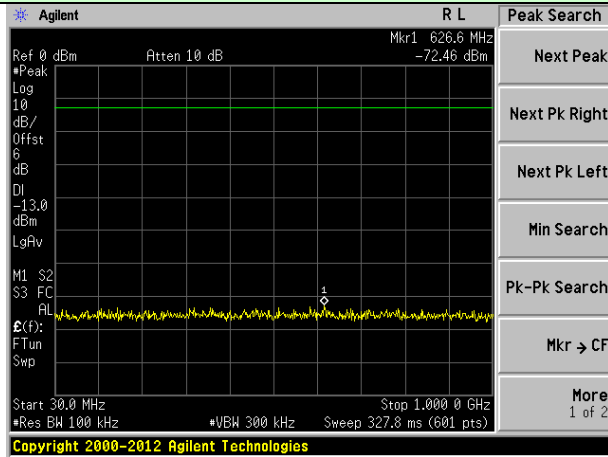
Middle channel



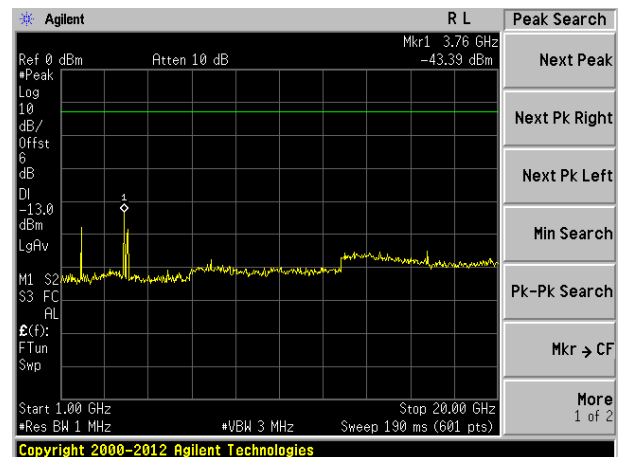
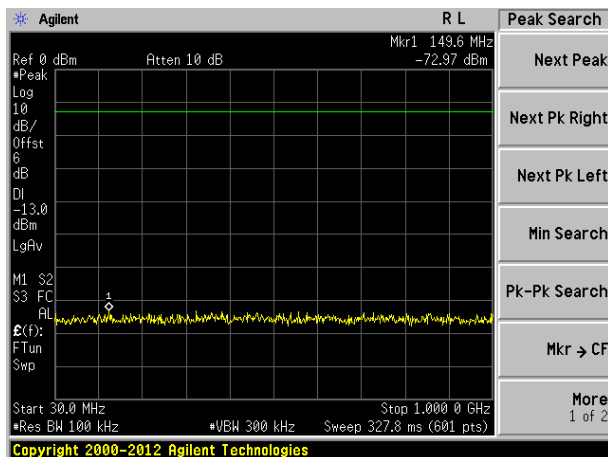
Highest channel

Test Mode: Traffic mode

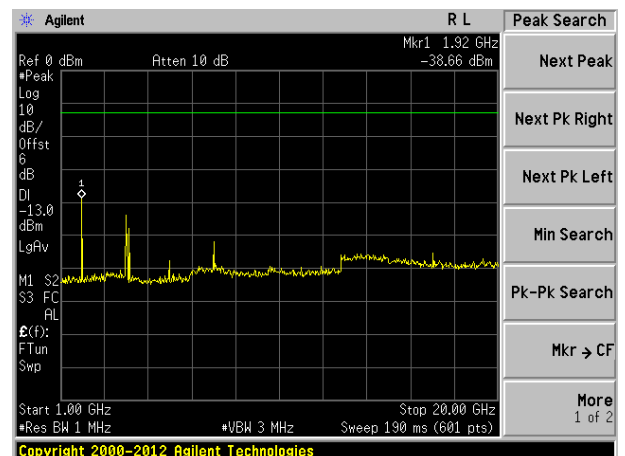
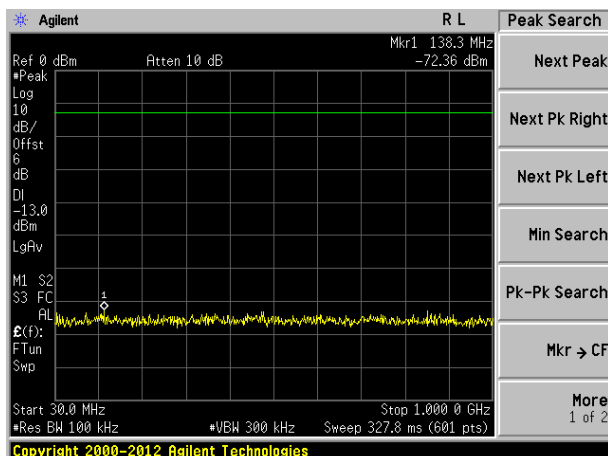
PCS1900 (GSM link)



Lowest channel



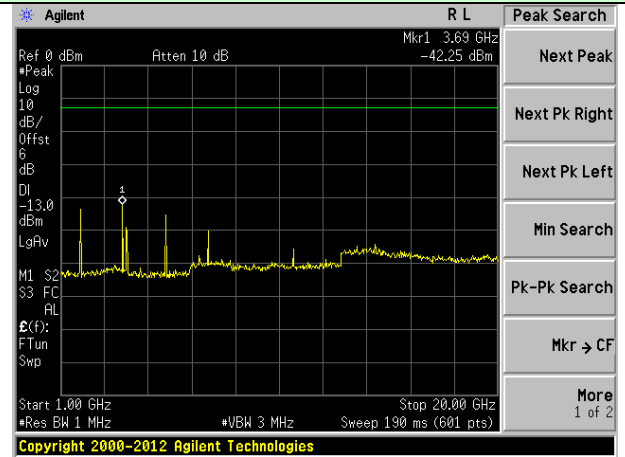
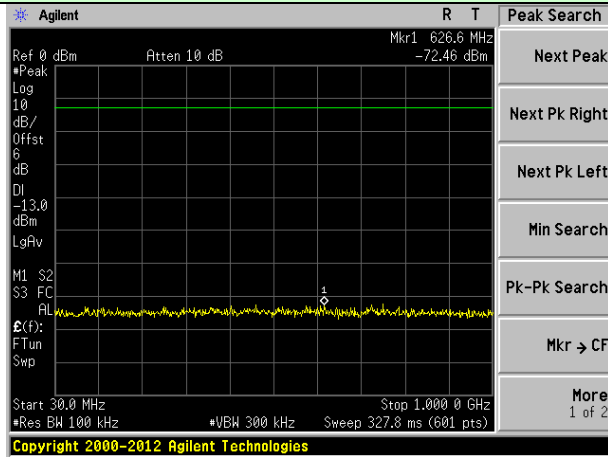
Middle channel



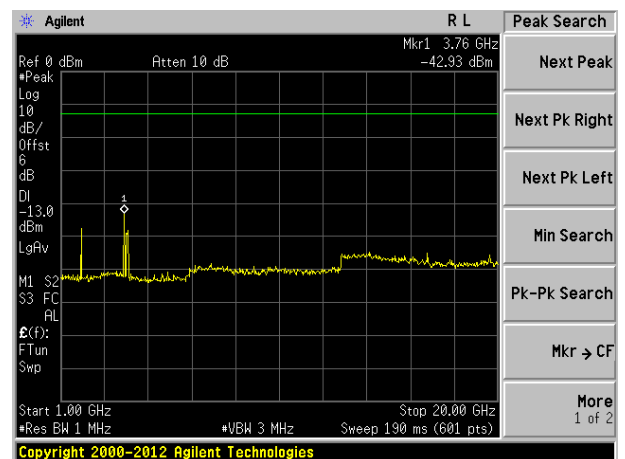
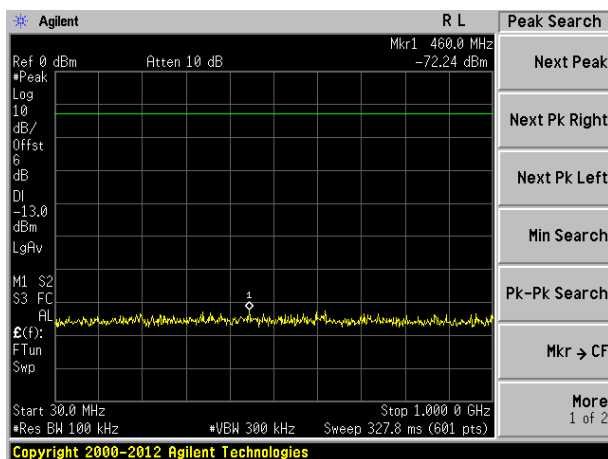
Highest channel

Test Mode: Traffic mode

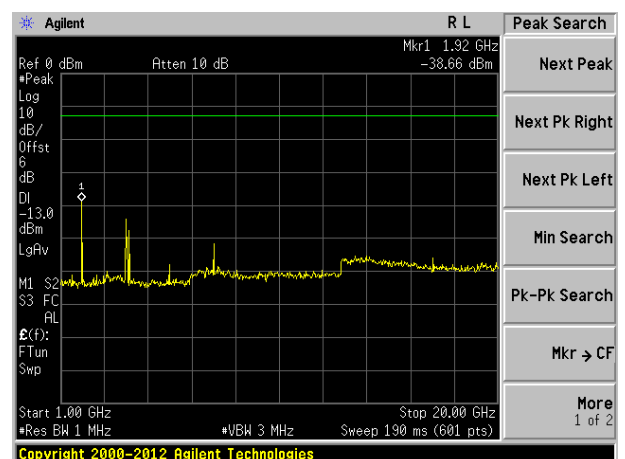
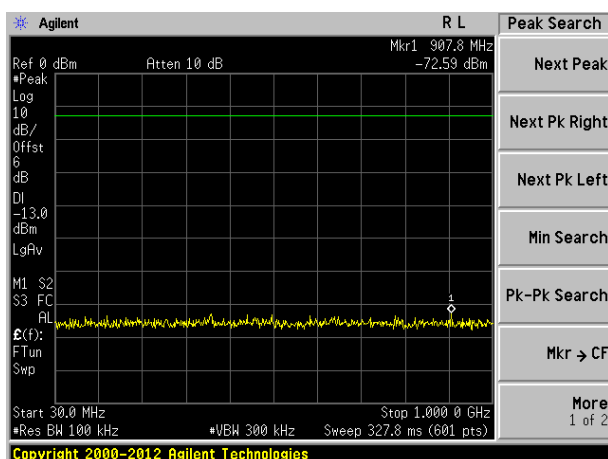
PCS1900 (GPRS 1 link)



Lowest channel



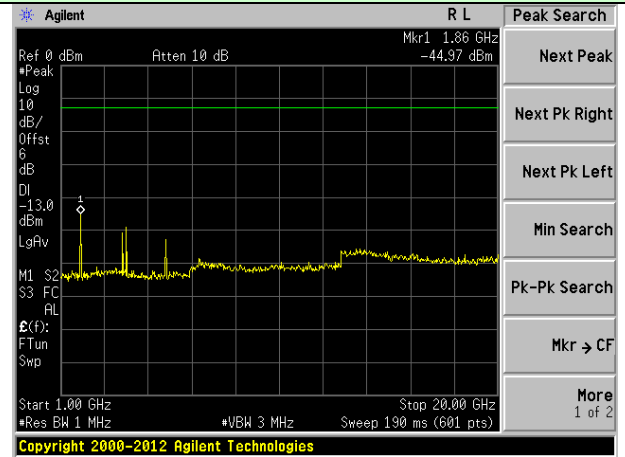
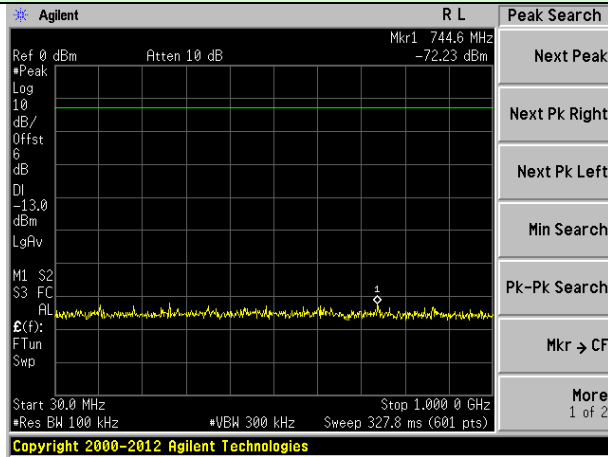
Middle channel



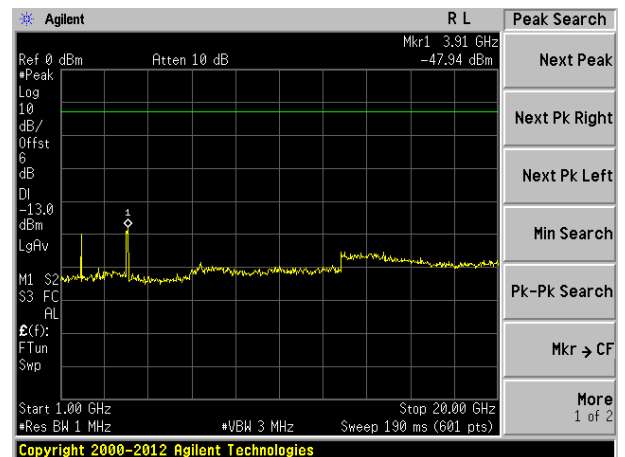
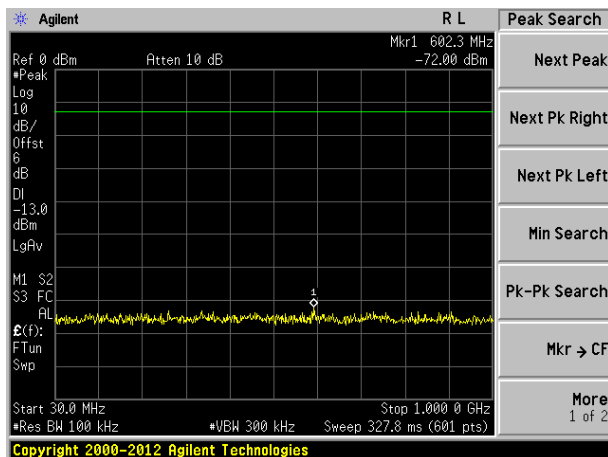
Highest channel

Test Mode: Traffic mode

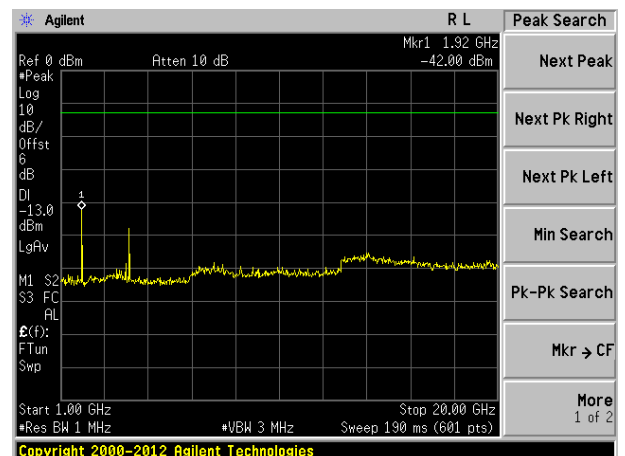
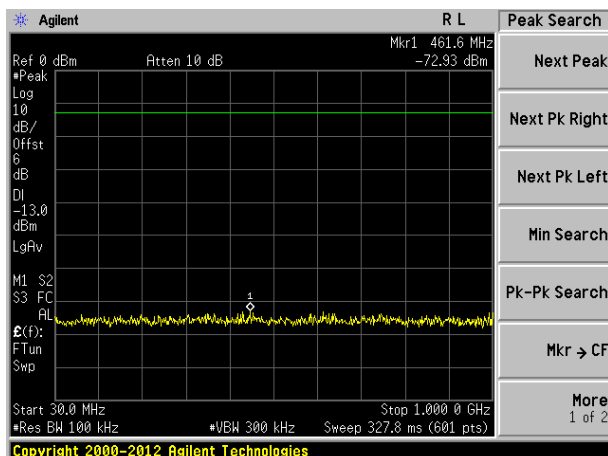
PCS1900 (EGPRS 1 link)



Lowest channel



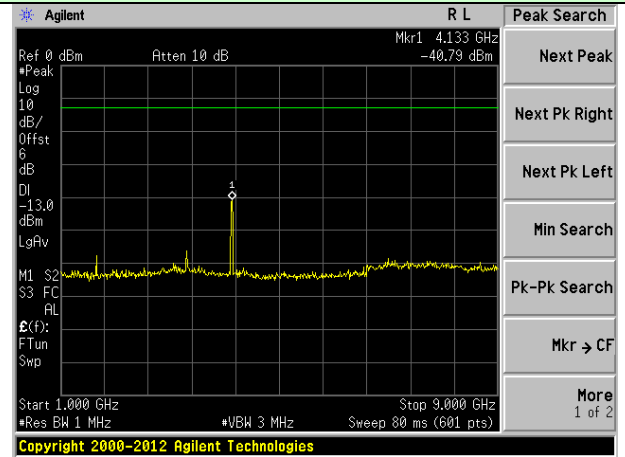
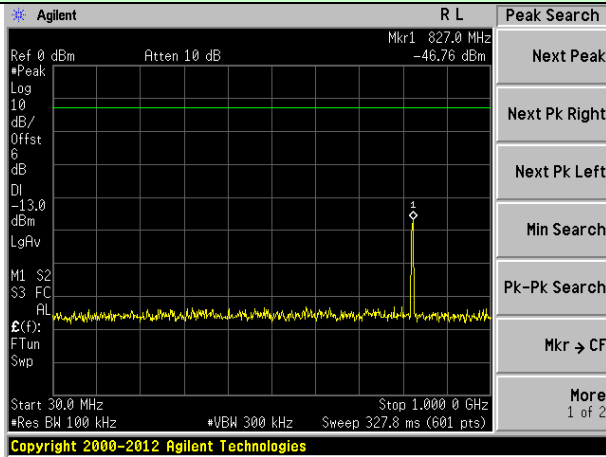
Middle channel



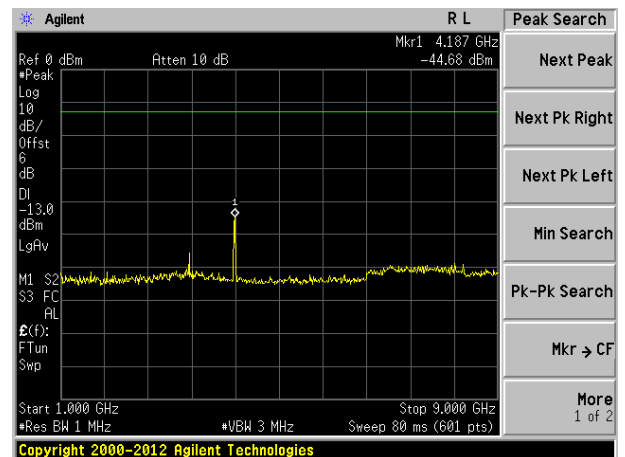
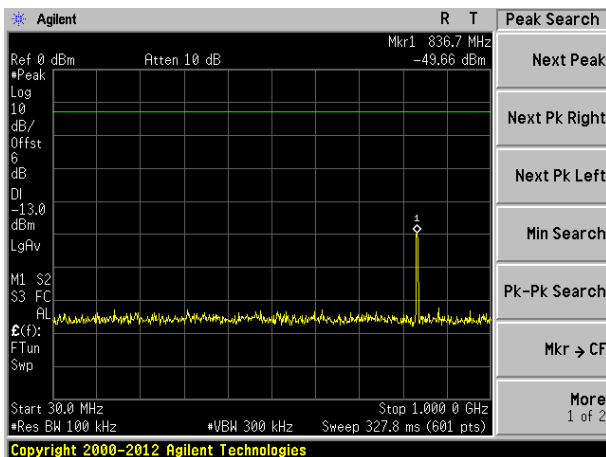
Highest channel

Test Mode: Traffic mode

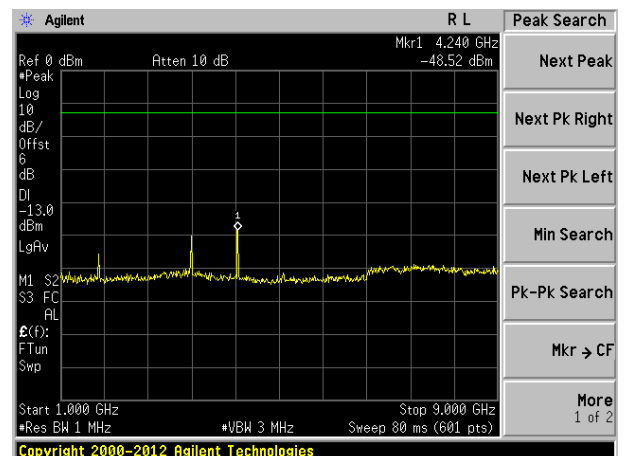
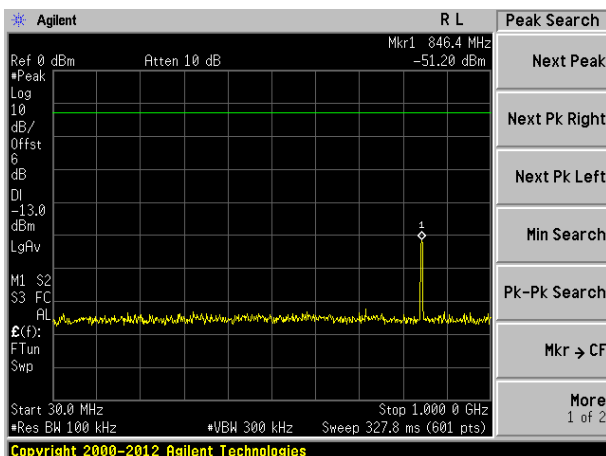
WCDMA Band V (RMC 12.2Kbps link)



Lowest channel

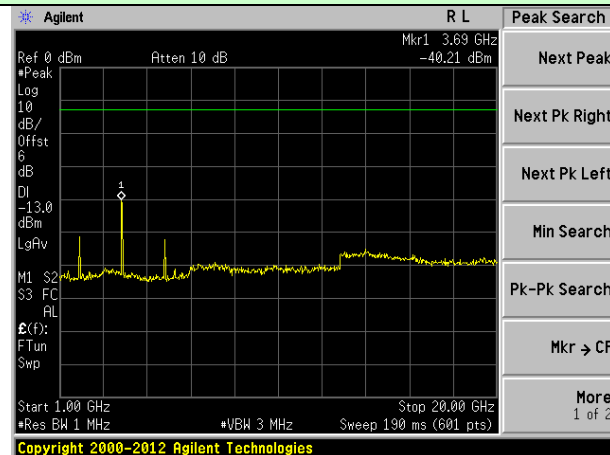
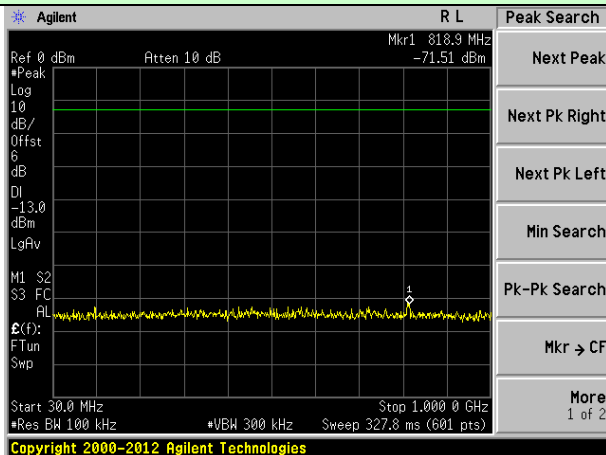


Middle channel

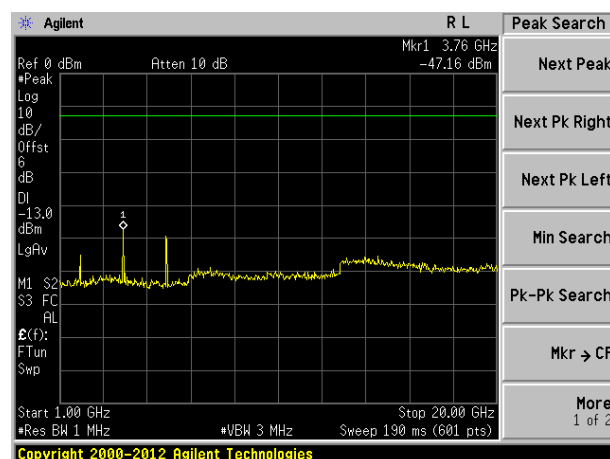
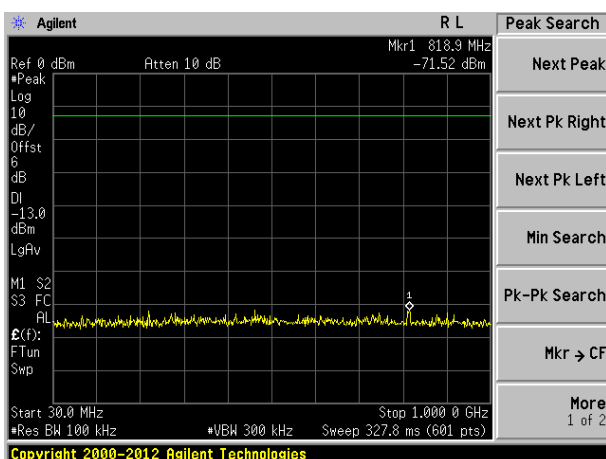


Highest channel

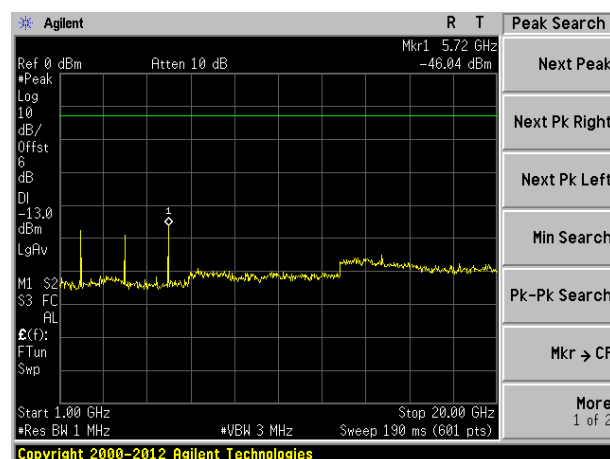
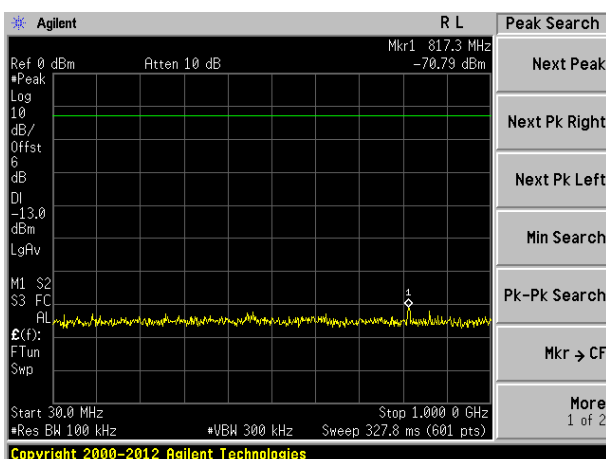
Test Mode: Traffic mode	WCDMA Band II (RMC 12.2Kbps link)
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Lowest channel

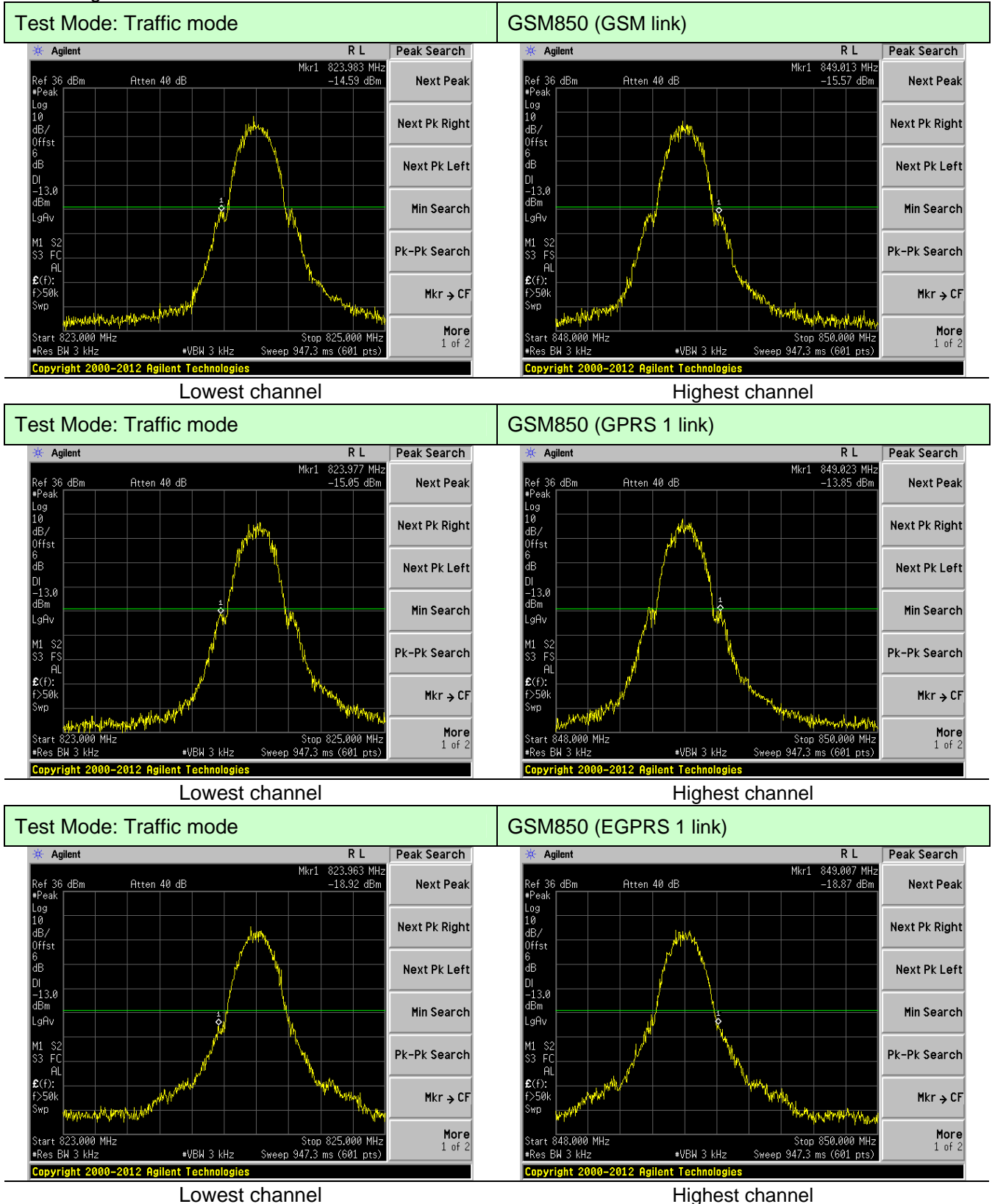


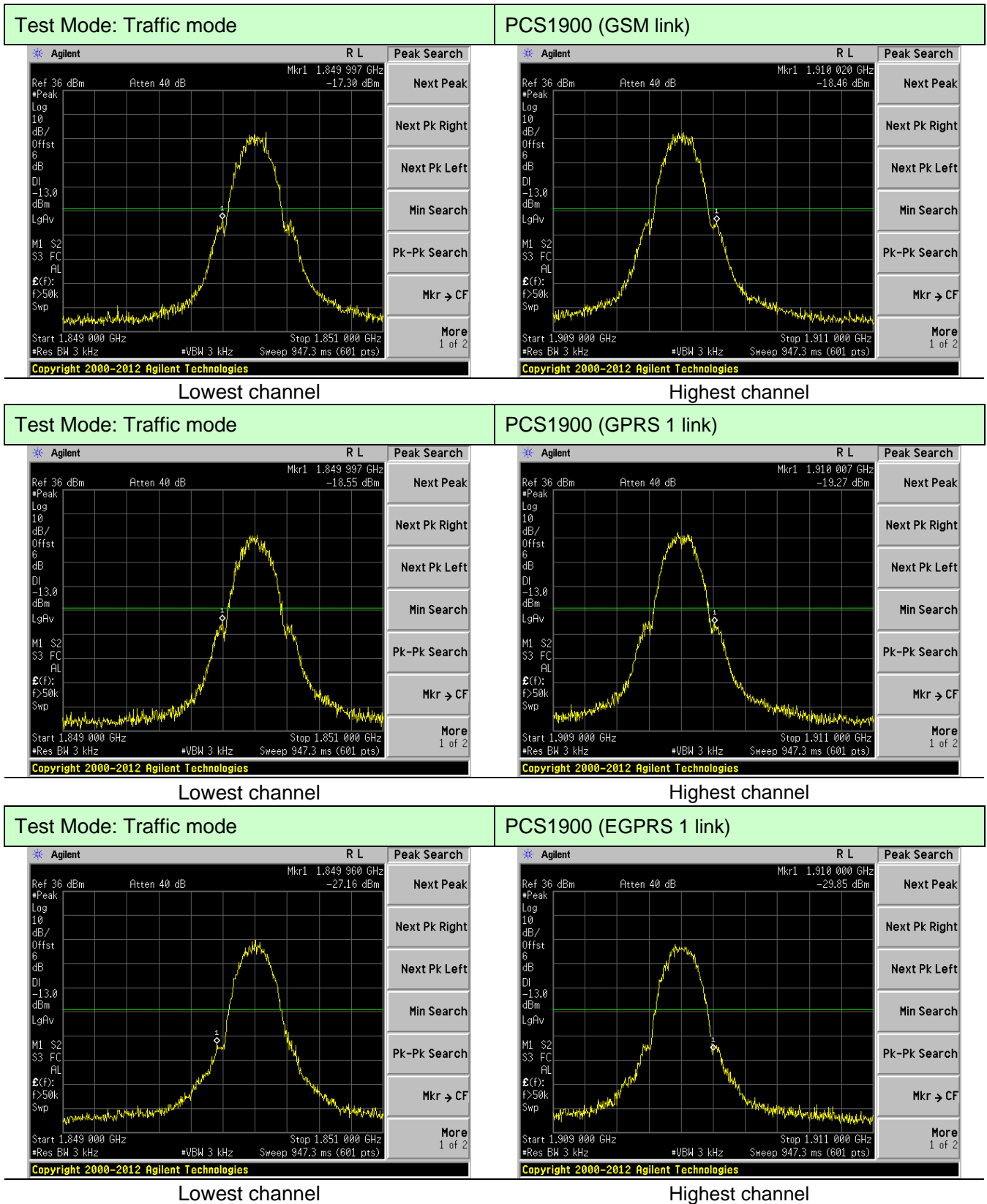
Middle channel



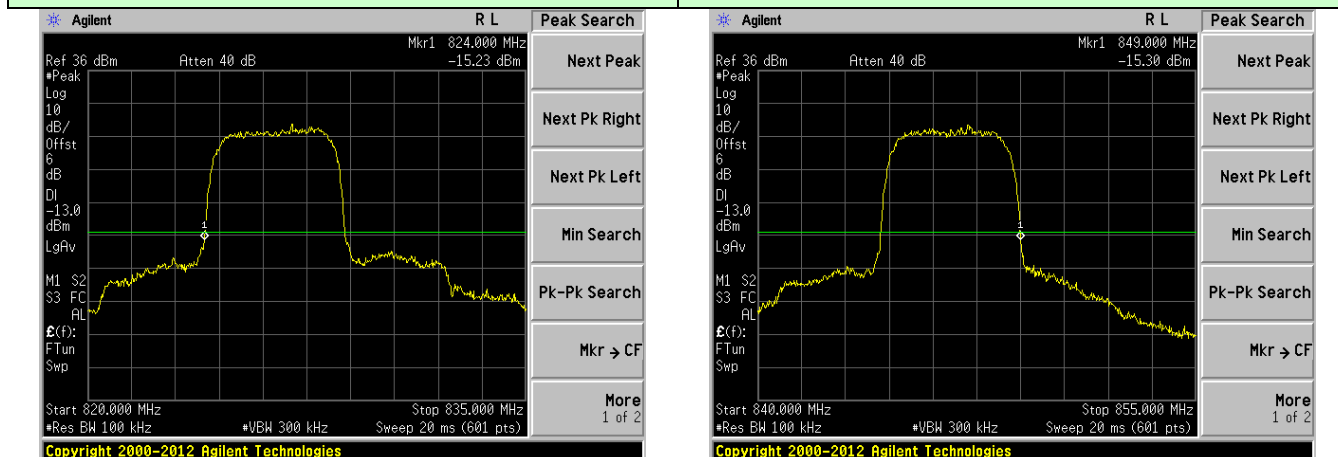
Highest channel

Band Edge:





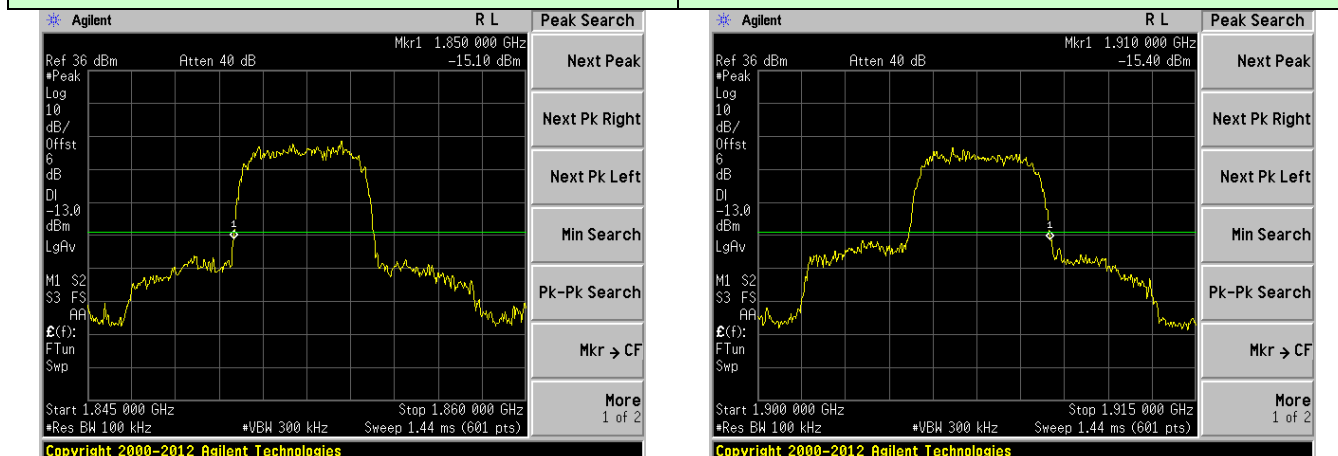
Test Mode: Traffic mode	WCDMA Band V (RMC 12.2Kbps link)
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Lowest channel

Highest channel

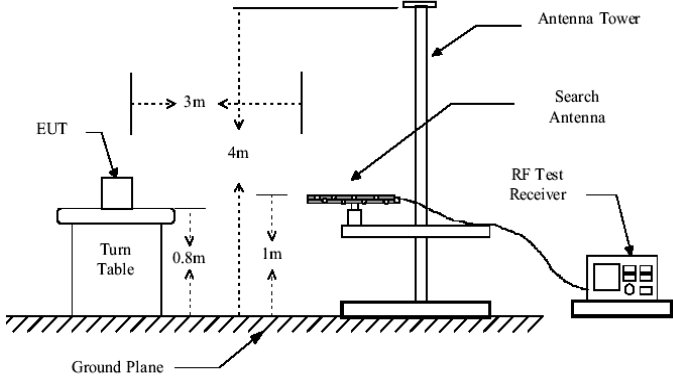
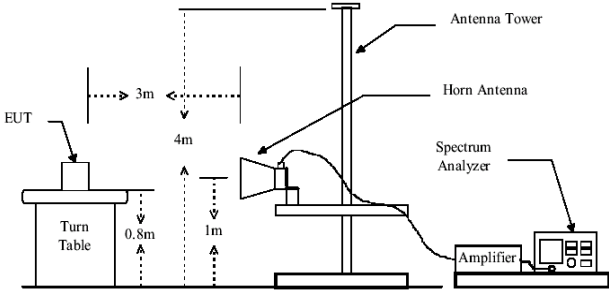
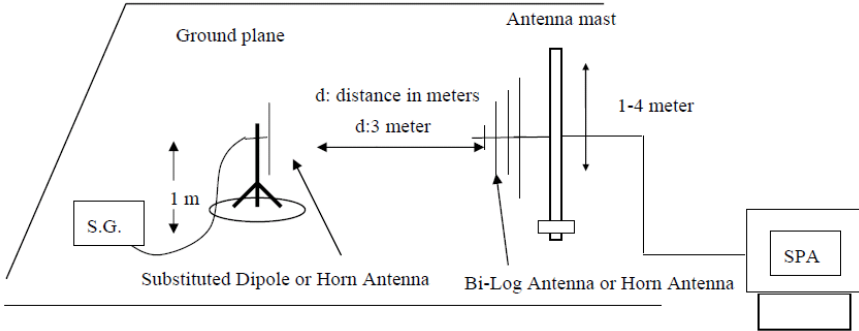
Test Mode: Traffic mode	WCDMA Band II (RMC 12.2Kbps link)
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Lowest channel

Highest channel

7.7 ERP, EIRP Measurement

Test Requirement:	FCC part22.913(a) and FCC part24.232(b)
Test Method:	FCC part2.1046
Limit:	GSM850 7W ERP PCS1900 2W EIRP
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p> 

Test Procedure:	<ol style="list-style-type: none"> 1. 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. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows: $\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$ 4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: $\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
GSM850 (GSM link)	Lowest	H	V	31.86	38.45	Pass
			H	28.73		
		E1	V	23.35		
			H	28.87		
		E2	V	22.39		
			H	26.47		
	Middle	H	V	31.69	38.45	Pass
			H	28.51		
		E1	V	23.21		
			H	28.77		
		E2	V	23.98		
			H	26.98		
	Highest	H	V	32.12	38.45	Pass
			H	28.34		
		E1	V	23.27		
			H	27.78		
		E2	V	22.32		
			H	27.69		

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
GSM850 (GPRS 1 link)	Lowest	H	V	31.40	38.45	Pass
			H	28.23		
		E1	V	22.82		
			H	28.30		
		E2	V	21.78		
			H	25.82		
	Middle	H	V	31.10	38.45	Pass
			H	27.83		
		E1	V	22.49		
			H	28.01		
		E2	V	23.32		
			H	26.28		
	Highest	H	V	31.53	38.45	Pass
			H	27.72		
		E1	V	22.61		
			H	27.08		
		E2	V	21.79		
			H	27.12		

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
GSM850 (EGPRS 1 link)	Lowest	H	V	27.63	38.45	Pass
			H	24.60		
		E1	V	19.24		
			H	25.14		
		E2	V	18.65		
			H	23.06		
	Middle	H	V	27.95	38.45	Pass
			H	25.11		
		E1	V	19.89		
			H	25.84		
		E2	V	20.39		
			H	23.69		
	Highest	H	V	28.16	38.45	Pass
			H	24.46		
		E1	V	19.42		
			H	24.27		
		E2	V	17.75		
			H	23.49		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
PCS1900 (GSM link)	Lowest	H	V	28.29	33.01	Pass
			H	25.50		
		E1	V	20.71		
			H	25.68		
		E2	V	19.89		
			H	23.56		
	Middle	H	V	28.27	33.01	Pass
			H	25.46		
		E1	V	20.75		
			H	25.76		
		E2	V	21.41		
			H	24.11		
	Highest	H	V	28.75	33.01	Pass
			H	25.38		
		E1	V	20.87		
			H	24.92		
		E2	V	19.93		
			H	24.77		

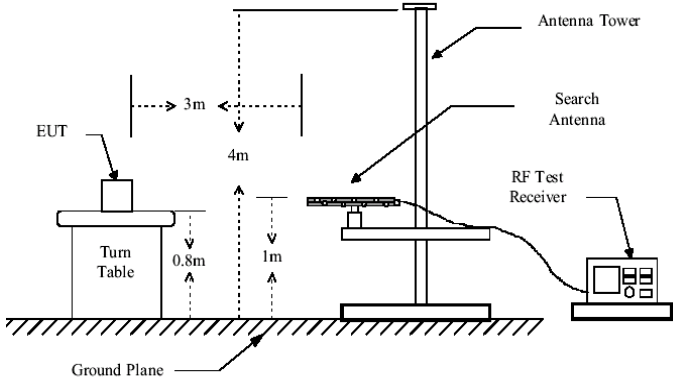
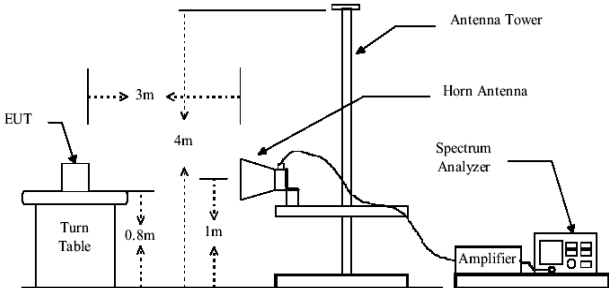
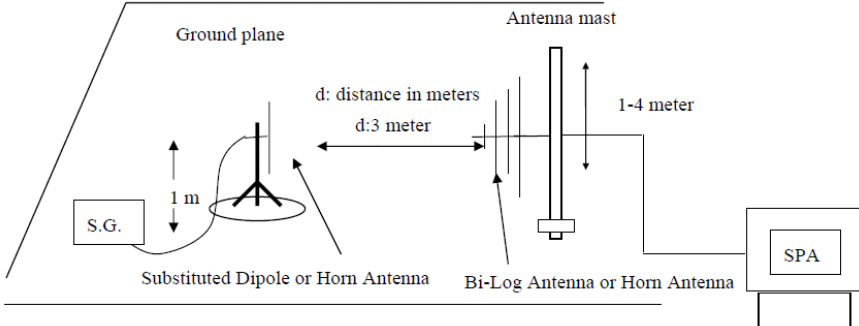
EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
PCS1900 (GPRS 1 link)	Lowest	H	V	27.77	33.01	Pass
			H	24.94		
		E1	V	20.10		
			H	25.03		
		E2	V	19.19		
			H	22.82		
	Middle	H	V	27.60	33.01	Pass
			H	24.69		
		E1	V	19.92		
			H	24.88		
		E2	V	20.65		
			H	23.31		
	Highest	H	V	28.08	33.01	Pass
			H	24.67		
		E1	V	20.11		
			H	24.12		
		E2	V	19.34		
			H	24.13		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
PCS1900 (EGPRS 1 link)	Lowest	H	V	24.56	33.01	Pass
			H	20.19		
		E1	V	14.40		
			H	20.34		
		E2	V	13.36		
			H	17.74		
	Middle	H	V	23.33	33.01	Pass
			H	19.89		
		E1	V	14.21		
			H	20.17		
		E2	V	15.03		
			H	18.26		
	Highest	H	V	23.74	33.01	Pass
			H	19.67		
		E1	V	14.22		
			H	19.07		
		E2	V	13.21		
			H	18.99		

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
WCDMA Band V	Lowest	H	V	20.98	38.45	Pass
			H	18.52		
		E1	V	14.63		
			H	17.70		
		E2	V	13.11		
			H	15.26		
	Middle	H	V	19.42	38.45	Pass
			H	16.36		
		E1	V	12.41		
			H	15.50		
		E2	V	13.58		
			H	15.04		
	Highest	H	V	18.42	38.45	Pass
			H	15.55		
		E1	V	11.84		
			H	14.28		
		E2	V	12.83		
			H	15.81		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
WCDMA Band II	Lowest	H	V	22.90	33.01	Pass
			H	20.70		
		E1	V	17.05		
			H	20.37		
		E2	V	16.03		
			H	18.43		
	Middle	H	V	22.21	33.01	Pass
			H	19.71		
		E1	V	16.07		
			H	19.42		
		E2	V	16.87		
			H	18.58		
	Highest	H	V	21.15	33.01	Pass
			H	18.53		
		E1	V	15.07		
			H	17.76		
		E2	V	15.19		
			H	18.42		

7.8 Field strength of spurious radiation measurement

Test Requirement:	FCC part22.917(a) and FCC part24.238(a)
Test Method:	FCC part2.1053
Limit:	-13dBm
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p> 

Test Procedure:	<ol style="list-style-type: none"> 1. 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. 2. 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. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

Test mode:	GSM850		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1648.40	Vertical	-35.78	-13.00	Pass
2472.60	V	-38.52		
3296.80	V	-40.80		
4121.00	V	-42.96		
4945.20	V	---		
1648.40	Horizontal	-41.03	-13.00	Pass
2472.60	H	-44.91		
3296.80	H	-46.49		
4121.00	H	-49.23		
4945.20	H	---		
Test mode:	GSM850		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1673.20	Vertical	-37.18	-13.00	Pass
2509.80	V	-39.46		
3346.40	V	-41.36		
4183.00	V	-43.17		
5019.60	V	---		
1673.20	Horizontal	-41.56	-13.00	Pass
2509.80	H	-44.79		
3346.40	H	-46.11		
4183.00	H	-48.39		
5019.60	H	---		
Test mode:	GSM850		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1697.60	Vertical	-37.44	-13.00	Pass
2546.40	V	-39.47		
3395.20	V	-41.15		
4244.00	V	-42.76		
5092.80	V	---		
1697.60	Horizontal	-41.33	-13.00	Pass
2546.40	H	-44.21		
3395.20	H	-45.38		
4244.00	H	-47.41		
5092.80	H	---		

Remark :

1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Test mode:	PCS1900		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3700.40	Vertical	-36.94	-13.00	Pass
5550.60	V	-39.32		
7400.80	V	-41.30		
9251.00	V	-43.20		
11101.20	V	---		
3700.40	Horizontal	-41.52	-13.00	Pass
5550.60	H	-44.90		
7400.80	H	-46.26		
9251.00	H	-48.63		
11101.20	H	---		
Test mode:	PCS1900		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760.00	Vertical	-34.60	-13.00	Pass
5640.00	V	-37.07		
7520.00	V	-39.11		
9400.00	V	-41.08		
11280.00	V	---		
3760.00	Horizontal	-39.35	-13.00	Pass
5640.00	H	-42.84		
7520.00	H	-44.26		
9400.00	H	-46.72		
11280.00	H	---		
Test mode:	PCS1900		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3819.60	Vertical	-35.81	-13.00	Pass
5729.40	V	-38.20		
7639.20	V	-40.18		
9549.00	V	-42.08		
11458.80	V	---		
3819.60	Horizontal	-40.40	-13.00	Pass
5729.40	H	-43.79		
7639.20	H	-45.15		
9549.00	H	-47.53		
11458.80	H	---		

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Test mode:	WCDMA Band V		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1652.80	Vertical	-37.42	-13.00	Pass
2479.20	V	-41.17		
3305.60	V	-43.90		
4132.00	V	-41.43		
4958.40	V	---		
1652.80	Horizontal	-40.22	-13.00	Pass
2479.20	H	-42.91		
3305.60	H	-48.33		
4132.00	H	-51.95		
4958.40	H	---		
Test mode:	WCDMA Band V		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1672.80	Vertical	-39.45	-13.00	Pass
2509.20	V	-40.76		
3345.60	V	-44.38		
4182.00	V	-46.84		
5018.40	V	---		
1672.80	Horizontal	-41.90	-13.00	Pass
2509.20	H	-43.80		
3345.60	H	-48.49		
4182.00	H	-50.88		
5018.40	H	---		
Test mode:	WCDMA Band V		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1693.20	Vertical	-37.94	-13.00	Pass
2539.80	V	-40.38		
3386.40	V	-43.00		
4233.00	V	-45.90		
5079.60	V	---		
1693.20	Horizontal	-41.29	-13.00	Pass
2539.80	H	-43.71		
3386.40	H	-45.08		
4233.00	H	-51.27		
5079.60	H	---		

Remark :

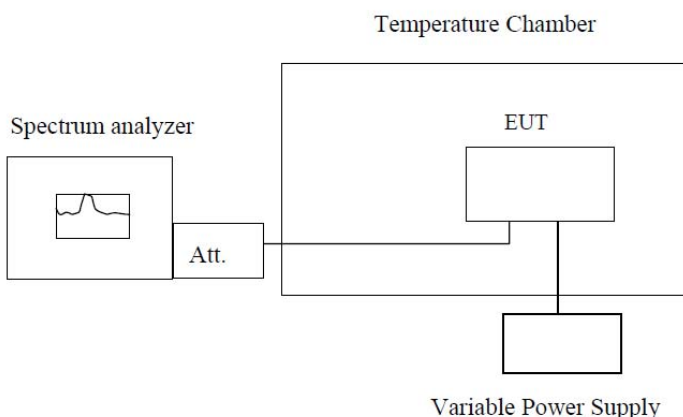
1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Test mode:	WCDMA Band II		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3704.46	Vertical	-38.83	-13.00	Pass
5556.86	V	-41.91		
7409.26	V	-44.46		
9261.66	V	-46.91		
11114.40	V	---		
3704.46	Horizontal	-44.74	-13.00	Pass
5556.86	H	-49.10		
7409.26	H	-50.86		
9261.66	H	-53.92		
11114.40	H	---		
Test mode:	WCDMA Band II		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3759.83	Vertical	-39.58	-13.00	Pass
5639.83	V	-42.50		
7519.83	V	-44.91		
9399.83	V	-47.24		
11280.00	V	---		
3759.83	Horizontal	-45.19	-13.00	Pass
5639.83	H	-49.32		
7519.83	H	-50.98		
9399.83	H	-53.89		
11280.00	H	---		
Test mode:	WCDMA Band II		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3815.03	Vertical	-38.82	-13.00	Pass
5722.63	V	-41.55		
7630.23	V	-43.79		
9537.83	V	-45.97		
11445.60	V	---		
3815.03	Horizontal	-44.05	-13.00	Pass
5722.63	H	-47.90		
7630.23	H	-49.45		
9537.83	H	-52.16		
11445.60	H	---		

Remark :

1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

7.9 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	2.5ppm
Test setup:	 <p>Note : Measurement setup for testing on Antenna connector</p>
Test procedure:	<ol style="list-style-type: none"> 1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to –20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

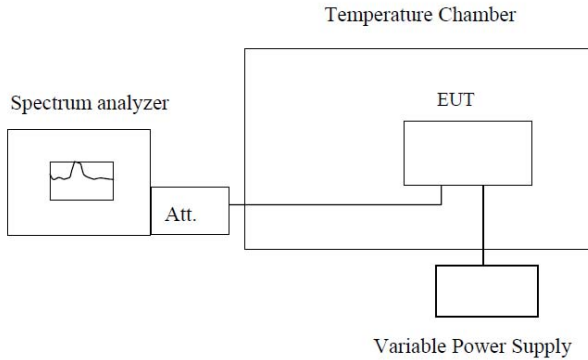
Measurement Data

Reference Frequency: GSM850 (GSM link) Middle channel=190 channel=836.6MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	35	0.0413	2.5	Pass
	-20	38	0.0458		
	-10	33	0.0399		
	0	28	0.0339		
	10	32	0.0384		
	20	28	0.0339		
	30	43	0.0517		
	40	40	0.0473		
	50	38	0.0458		
Reference Frequency: GSM850 (GPRS 1 link) Middle channel=190 channel=836.6MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	51	0.0607	2.5	Pass
	-20	59	0.0709		
	-10	49	0.0586		
	0	42	0.0503		
	10	48	0.0569		
	20	41	0.0490		
	30	72	0.0860		
	40	62	0.0743		
	50	59	0.0700		
Reference Frequency: GSM850 (EGPRS 1 link) Middle channel=190 channel=836.6MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	29	0.0341	2.5	Pass
	-20	31	0.0368		
	-10	27	0.0328		
	0	25	0.0301		
	10	26	0.0314		
	20	24	0.0287		
	30	36	0.0436		
	40	32	0.0382		
	50	31	0.0368		

Reference Frequency: PCS1900 (GSM link) Middle channel=661 channel=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error			Result
		Hz	ppm		
3.70	-30	33	0.0177	2.5	Pass
	-20	42	0.0221		
	-10	33	0.0177		
	0	26	0.0140		
	10	33	0.0177		
	20	28	0.0147		
	30	51	0.0273		
	40	43	0.0229		
	50	40	0.0214		
Reference Frequency: PCS1900 (GPRS 1 link) Middle channel=661 channel=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error			Result
		Hz	ppm		
3.70	-30	114	0.0605	2.5	Pass
	-20	134	0.0715		
	-10	109	0.0580		
	0	89	0.0474		
	10	110	0.0587		
	20	92	0.0489		
	30	151	0.0805		
	40	126	0.0670		
	50	133	0.0705		
Reference Frequency: PCS1900 (EGPRS 1 link) Middle channel=661 channel=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error			Result
		Hz	ppm		
3.70	-30	34	0.0181	2.5	Pass
	-20	40	0.0215		
	-10	31	0.0167		
	0	25	0.0133		
	10	33	0.0174		
	20	25	0.0133		
	30	47	0.0249		
	40	38	0.0201		
	50	40	0.0215		

Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	32	0.0383	2.5	Pass
	-20	44	0.0532		
	-10	50	0.0599		
	0	24	0.0289		
	10	35	0.0424		
	20	39	0.0464		
	30	57	0.0680		
	40	54	0.0640		
	50	64	0.0761		
Reference Frequency: WCDMA Band II Middle channel=9400 channel=1880.0MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	111	0.0588	2.5	Pass
	-20	98	0.0522		
	-10	84	0.0449		
	0	79	0.0420		
	10	72	0.0384		
	20	63	0.0333		
	30	79	0.0420		
	40	89	0.0471		
	50	84	0.0449		

7.10 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	 <p>Note : Measurement setup for testing on Antenna connector</p>
Test procedure:	<ol style="list-style-type: none"> 1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

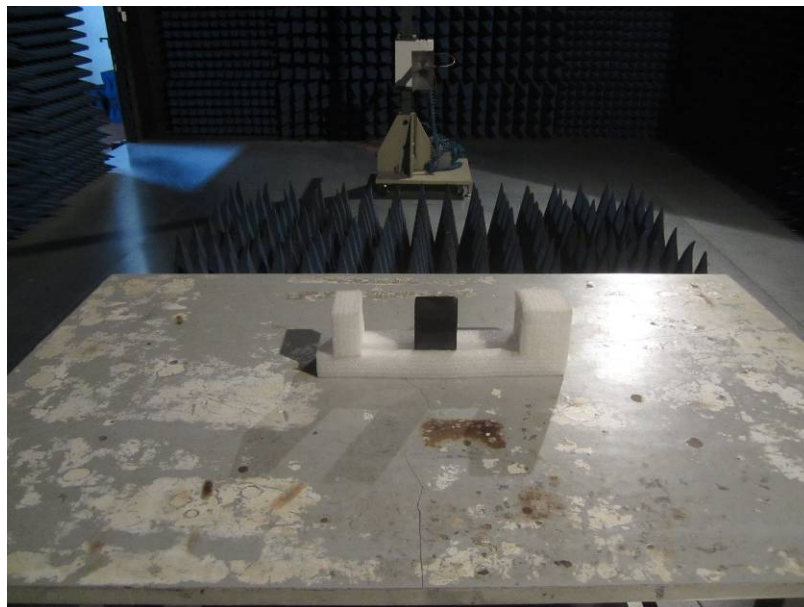
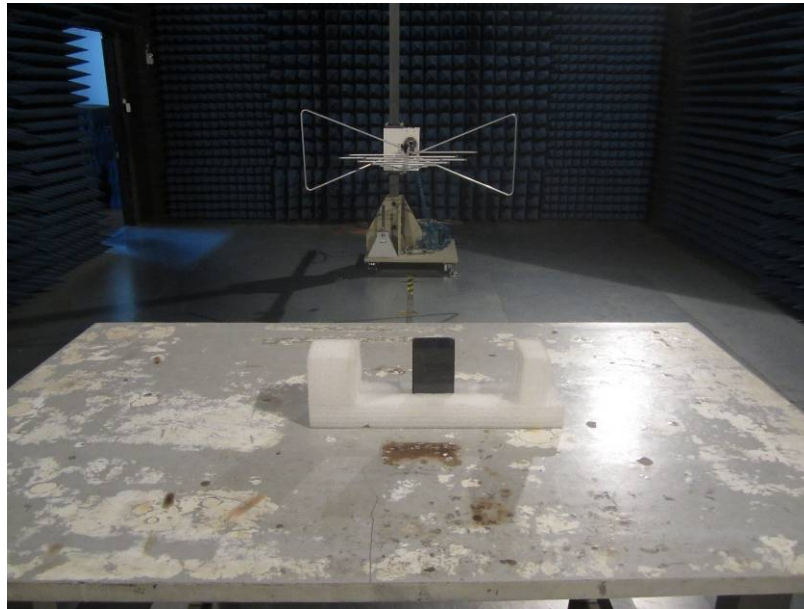
Measurement Data

Reference Frequency: GSM850 (GSM link) Middle channel=190 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	20	0.0242	2.5	Pass
	3.70	23	0.0272		
	3.40	25	0.0302		
Reference Frequency: GSM850 (GPRS 1 link) Middle channel=190 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	32	0.0383	2.5	Pass
	3.70	37	0.0444		
	3.40	42	0.0502		
Reference Frequency: GSM850 (EGPRS 1 link) Middle channel=190 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	24	0.0288	2.5	Pass
	3.70	16	0.0186		
	3.40	18	0.0220		

Reference Frequency: PCS1900 (GSM link) Middle channel=661 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	19	0.0102	2.5	Pass
	3.70	27	0.0143		
	3.40	27	0.0143		
Reference Frequency: PCS1900 (GPRS 1 link) Middle channel=661 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	70	0.0373	2.5	Pass
	3.70	80	0.0423		
	3.40	80	0.0425		
Reference Frequency: PCS1900 (EGPRS 1 link) Middle channel=661 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	48	0.0257	2.5	Pass
	3.70	38	0.0202		
	3.40	40	0.0213		
Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	30	0.0356	2.5	Pass
	3.70	39	0.0464		
	3.40	21	0.0248		
Reference Frequency: WCDMA Band II Middle channel=940 channel=1880.0MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	59	0.0316	2.5	Pass
	3.70	49	0.0259		
	3.40	55	0.0291		

8 Test Setup Photo

Radiated Emission

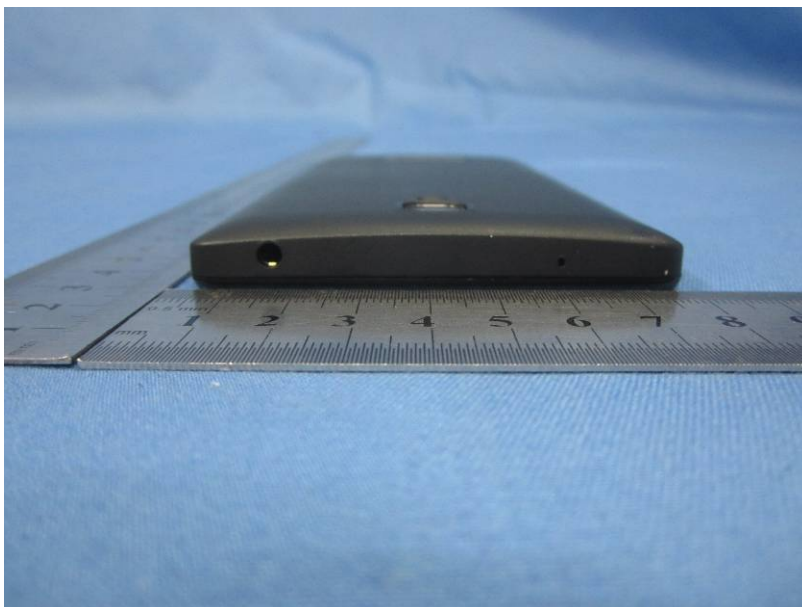


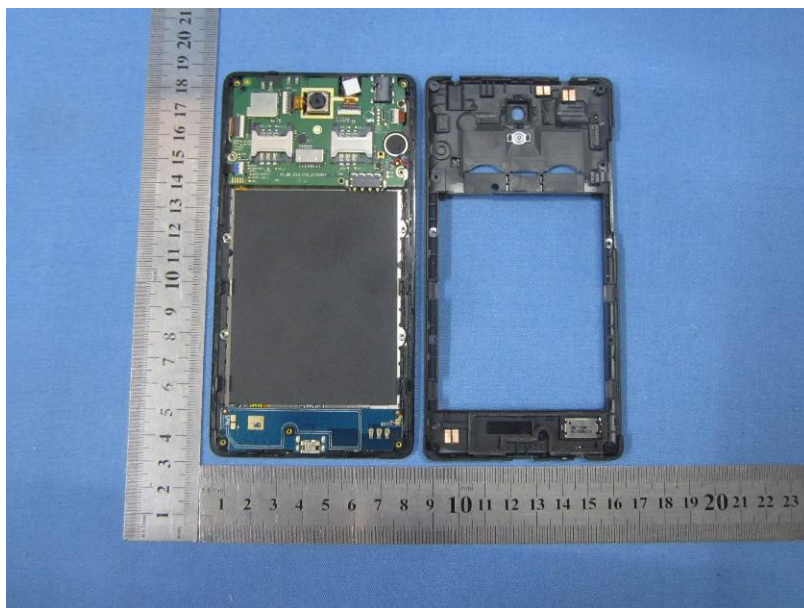
9 EUT Constructional Details

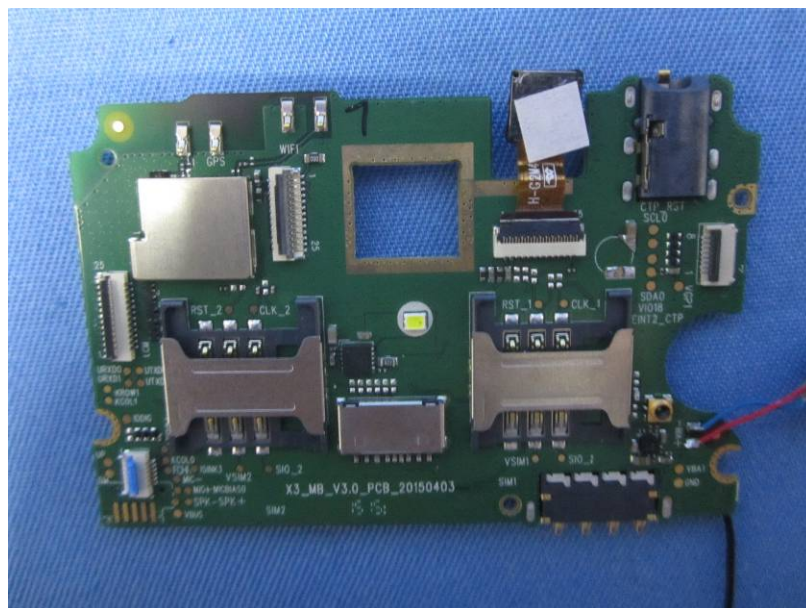
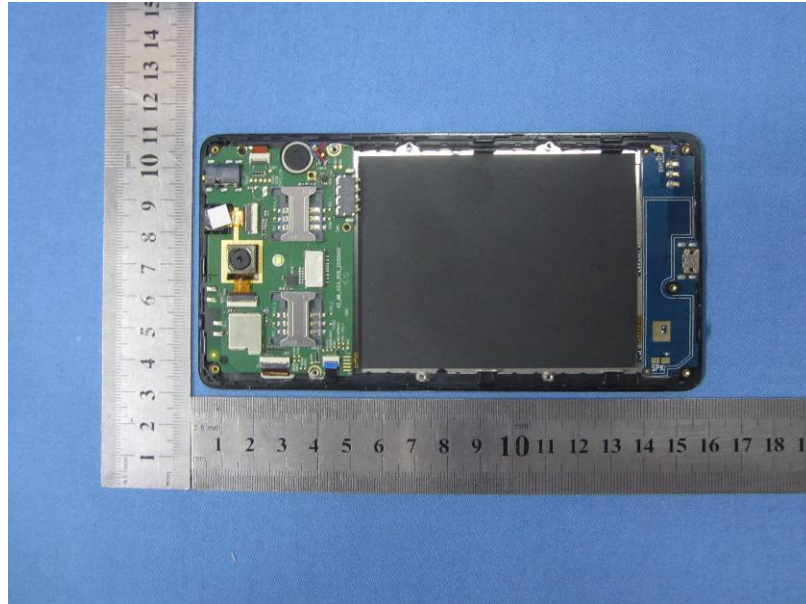




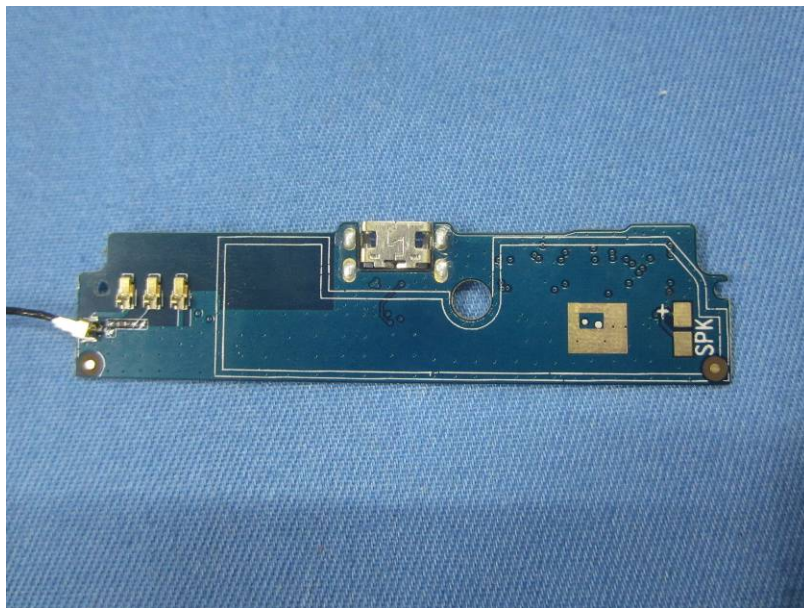
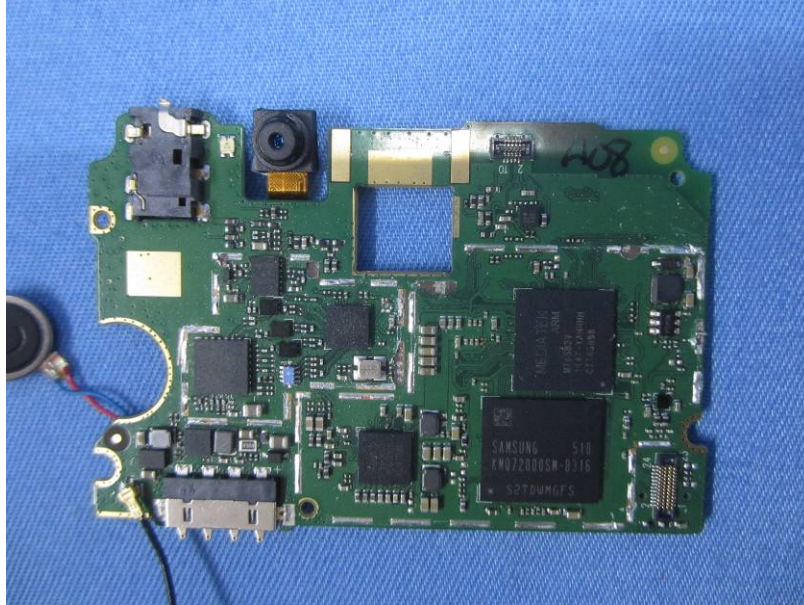


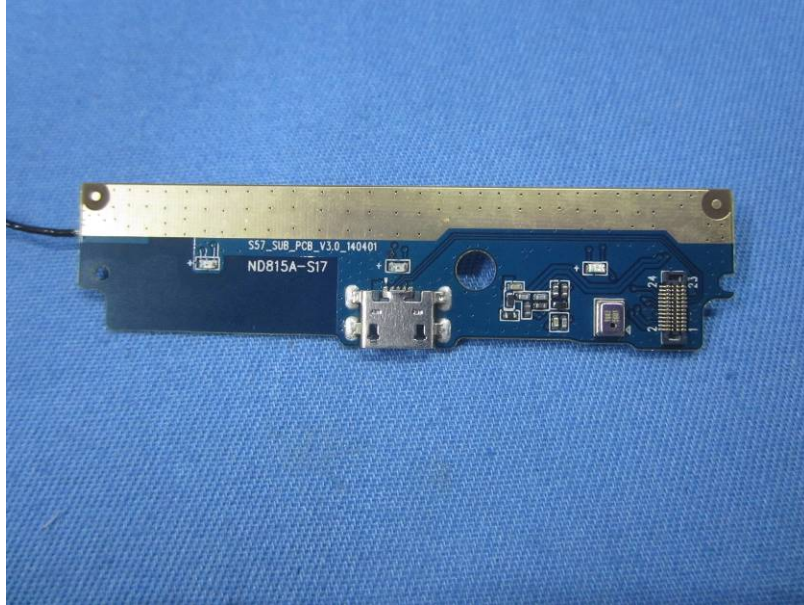


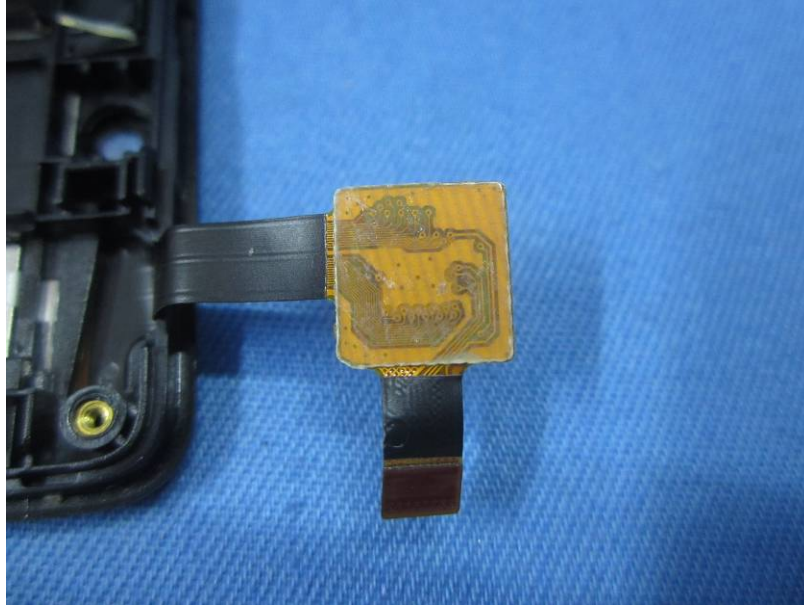














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