FCC Report (GSM&WCDMA)

Applicant:	Distribuidora Sinn, S.A. de C.V.
Address of Applicant:	Lago Zurich No.219 Piso 12, Colonia Ampliacion Granada, Del. Miguel Hidalgo, Mexico City, Mexico
Equipment Under Test (EUT)	
Product Name:	3G Smartphone
Model No.:	R505
Trade mark:	RINNO
FCC ID:	2AGTFR505
Applicable standards:	FCC CFR Title 47 Part 2: 2015 FCC CFR Title 47 Part22 Subpart H: 2015 FCC CFR Title 47 Part24 Subpart E: 2015
Date of sample receipt:	August 17, 2016
Date of Test:	August 18-24, 2016
Date of report issued:	August 25, 2016
Test Result :	PASS *

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

Authorized Signature:

Robinson Lo
Laboratory Manager

2 Version

Version No.	Date	Description
00	*August 25, 2016*	*Original*

Prepared By: Edward.Pan ***Date:*** *August 25, 2016*

Project Engineer

Check By: Andy.Wu ***Date:*** *August 25, 2016*

Reviewer

3 Contents

Page

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
Peak-to-Average Ratio	Part 2.1046 Part 24.232 (d)	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:	Distribuidora Sinn, S.A. de C.V.
Address of Applicant:	Lago Zurich No.219 Piso 12, Colonia Ampliacion Granada, Del. Miguel Hidalgo, Mexico City, Mexico
Manufacturer:	ZTECH communication (shenzhen) Co.,Ltd
Address of Manufacturer:	7 floor. D block.ZHIGU .XIxiang,BAOAN District, ShenZhen, China, 518000

5.2 General Description of EUT

Product Name:	3G Smartphone
Model No.:	R505
Support Networks:	GSM, GPRS, EGPRS, WCDMA
Support Bands:	GSM850, PCS1900, WCDMA Band V, WCDMA Band II
TX Frequency:	GSM850: 824.20MHz-848.80MHz PCS1900: 1850.20MHz-1909.80MHz WCDMA Band V: 826.40MHz -846.60MHz WCDMA Band II: 1852.40MHz -1907.60MHz
GPRS Class:	12
EGPRS Class	12
Modulation type:	GSM/GPRS: GMSK EGPRS: GMSK/8PSK WCDMA Band II/V: QPSK
Antenna type:	PIFA antenna
Antenna gain:	1.0dBi
Power supply:	Adapter Model No.: R505-A Input: AC 100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 1000mA or DC 3.7V 2200mAh 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:

● **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 22, 2016.

● **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, August 15, 2016.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 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	9.0(L)*6.0(W)* 6.0(H)	GTS250	July 03 2015	July 02 2020
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	June 29 2016	June 28 2017
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 29 2016	June 28 2017
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 29 2016	June 28 2017
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 29 2016	June 28 2017
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June 29 2016	June 28 2017
9	Coaxial Cable	GTS	N/A	GTS211	June 29 2016	June 28 2017
10	Coaxial cable	GTS	N/A	GTS210	June 29 2016	June 28 2017
11	Coaxial Cable	GTS	N/A	GTS212	June 29 2016	June 28 2017
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 29 2016	June 28 2017
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 29 2016	June 28 2017
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 29 2016	June 28 2017
15	Band filter	Amindeon	82346	GTS219	June 29 2016	June 28 2017
16	Universal radio communication tester	Rohde & Schwarz	CMU200	GTS235	June 29 2016	June 28 2017
17	Signal Generator	Rohde & Schwarz	SML03	GTS236	June 29 2016	June 28 2017
18	Temp. Humidity/ Barometer	Oregon Scientific	BA-888	GTS248	June 29 2016	June 28 2017
19	D.C. Power Supply	Instek	PS-3030	GTS232	June 29 2016	June 28 2017
20	Splitter	Agilent	11636B	GTS237	June 29 2016	June 28 2017
21	Power meter	Anritsu	ML2495A	GTS540	June 29 2016	June 28 2017
22	Power Sensor	Anritsu	MA2411B	GTS541	June 29 2016	June 28 2017
23	Spectrum Analyzer	Agilent	E4440A	GTS533	June 29 2016	June 28 2017
24	Temp.&Humidity chamber	Chuang wei	GDS-225	GTS005-1	June 29 2016	June 28 2017
25	Highpass filter	Micro-Tronics	HPM50108	GTS549	June 29 2016	June 28 2017
26	Highpass filter	Micro-Tronics	HPM50111	GTS550	June 29 2016	June 28 2017

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	■ GSM link ■ GPRS 1 link ■ EPRS 1 link	■ GSM link ■ GPRS 1 link ■ EGPRS 1 link
PCS 1900	■ GSM link ■ GPRS 1 link ■ EGPRS 1 link	■ GSM link ■ GPRS 1 link ■ EGPRS 1 link
WCDMA II	■ RMC 12.2Kbps link	■ RMC 12.2Kbps link
WCDMA Band V	■ RMC 12.2Kbps link	■ RMC 12.2Kbps link

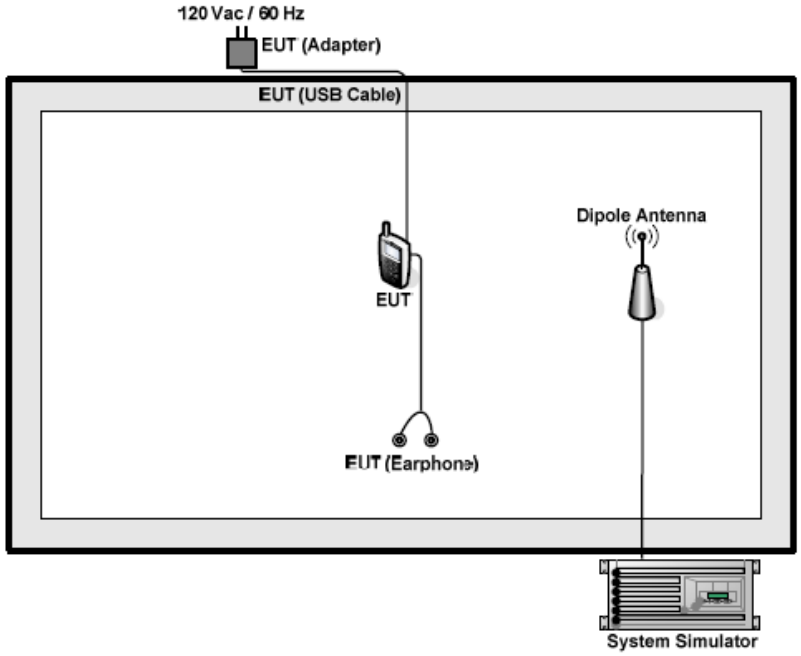
Note: The maximum power levels are GSM mode for GMSK link, GPRS multi-slot class 8 mode for GMSK link, EGPRS multi-slot class 8 mode for 8PSK link, RMC12.2Kbps mode for WCDMA Band V/II. only these modes were used for all tests.

The conducted power tables are as follows:

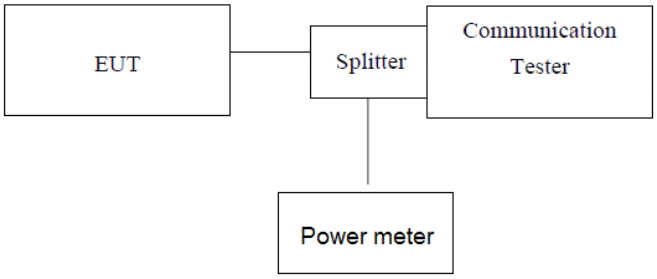
Conducted Power (dBm)						
Band	GSM850			PCS1900		
Channel	128	190	251	512	661	810
Frequency	824.20	836.60	848.80	1850.20	1880.00	1909.80
GSM (GMSK, 1 TX slot)	32.31	32.39	32.38	28.19	28.26	28.33
GPRS (GMSK, 1 TX slot)	32.29	32.37	32.36	28.15	28.21	28.29
GPRS (GMSK, 2 TX slot)	31.25	31.20	31.29	27.09	27.16	27.25
GPRS (GMSK, 3 TX slot)	30.17	30.26	30.33	26.18	26.18	26.21
GPRS (GMSK, 4 TX slot)	29.13	29.28	29.30	25.11	25.24	25.37
EGPRS (8PSK, 1 TX slot)	27.12	27.19	27.06	24.41	24.26	24.34
EGPRS (8PSK, 2 TX slot)	26.15	26.18	26.16	23.29	23.18	23.32
EGPRS (8PSK, 3 TX slot)	25.06	25.11	25.08	22.18	22.34	22.15
EGPRS (8PSK, 4 TX slot)	24.16	24.17	24.19	21.14	21.26	21.22

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	23.12	23.16	23.24	23.22	23.25	23.28
HSDPA Subtest-1	22.22	22.31	22.35	22.25	22.34	22.37
HSDPA Subtest-2	22.13	22.26	22.24	22.10	22.15	22.22
HSDPA Subtest-3	22.03	22.12	22.10	22.04	22.06	22.09
HSDPA Subtest-4	21.95	22.06	21.97	21.89	21.95	21.97
HSUPA Subtest-1	22.24	22.29	22.31	22.24	22.28	22.33
HSUPA Subtest-2	22.13	22.18	22.20	22.18	22.21	22.24
HSUPA Subtest-3	22.06	22.07	22.11	22.07	22.12	22.15
HSUPA Subtest-4	21.87	21.94	21.99	21.97	22.04	22.07
HSUPA Subtest-5	21.72	21.80	21.84	21.75	21.89	21.95
AMR	23.09	23.11	23.15	23.07	23.11	23.16

7.2 Configuration of Tested System



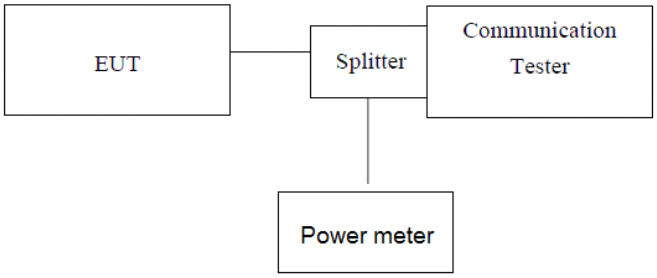
7.3 Conducted Peak Output Power

Test Requirement:	FCC part22.913(a) and FCC part24.232(b)
Test Method:	FCC part2.1046
Limit:	GSM850, WCDMA Band V: 7W PCS1900, WCDMA Band II: 2W
Test setup:	 *Note: Measurement setup for testing on Antenna connector*
Test Procedure:	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 7.1 for details
Test results:	Pass

Measurement Data

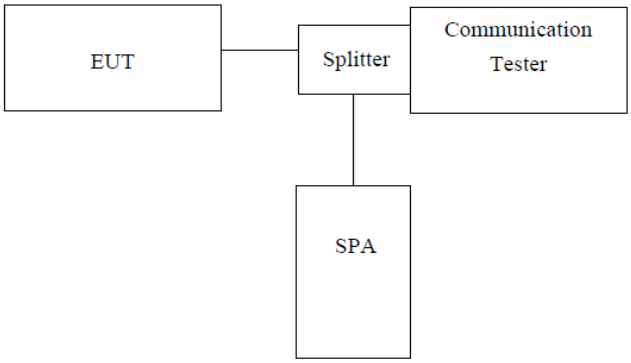
EUT Mode	Channel	Frequency (MHz)	PK power (dBm)	Limit (dBm)	Result
GSM 850 (GSM link)	128	824.20	32.32	38.45	Pass
	190	836.60	32.39		
	251	848.80	32.38		
GSM 850 (GPRS 1 link)	128	824.20	32.29	38.45	Pass
	190	836.60	32.37		
	251	848.80	32.36		
GSM 850 (EGPRS 1 link)	128	824.20	27.12	38.45	Pass
	190	836.60	27.19		
	251	848.80	27.06		
PCS 1900 (GSM link)	512	1850.20	28.19	33.01	Pass
	661	1880.00	28.26		
	810	1909.80	28.33		
PCS 1900 (GPRS 1 link)	512	1850.20	28.15	33.01	Pass
	661	1880.00	28.21		
	810	1909.80	28.29		
PCS 1900 (EGPRS 1 link)	512	1850.20	24.41	33.01	Pass
	661	1880.00	24.26		
	810	1909.80	24.34		
WCDMA Band V (RMC 12.2Kbps link)	4132	826.40	23.22	38.45	Pass
	4183	836.60	23.25		
	4233	846.60	23.28		
WCDMA Band II (RMC 12.2Kbps link)	9262	1852.4	23.12	33.01	Pass
	9400	1880.0	23.16		
	9538	1907.6	23.24		

7.4 Peak-to-Average Ratio

Test Requirement:	FCC part24.232(d)
Test Method:	FCC part2.1046
Limit:	13db
Test setup:	 *Note: Measurement setup for testing on Antenna connector*
Test Procedure:	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. 6. Record the maximum peak-to-average ratio value.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

Test mode	Peak to Average Ratio (dB)			Limit (dB)	Result
	Low Ch.	Middle Ch.	High Ch.		
WCDMA	5.75	5.52	5.64	13	PASS
GSM	0.70	0.69	0.75	13	PASS
EDGE	0.65	0.58	0.67	13	PASS

7.5 Occupy Bandwidth

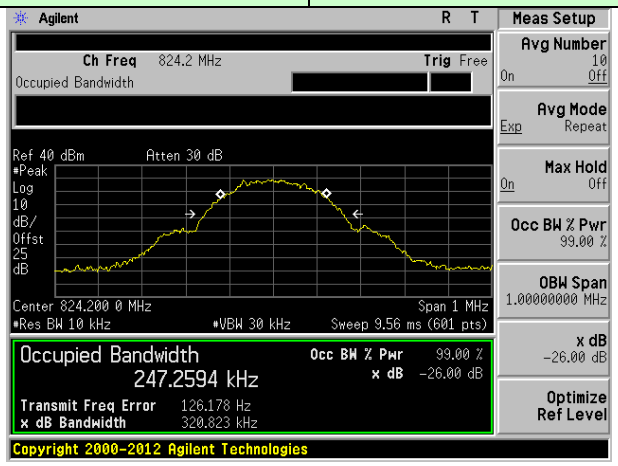
Test Requirement:	FCC part22.913(a) and FCC part24.232(b)
Test Method:	FCC part2.1049
Test setup:	 *Note: Measurement setup for testing on Antenna connector*
Test Procedure:	1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer 2. RBW was set to about 1% of emission 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 7.1 for details
Test results:	Pass

Measurement Data

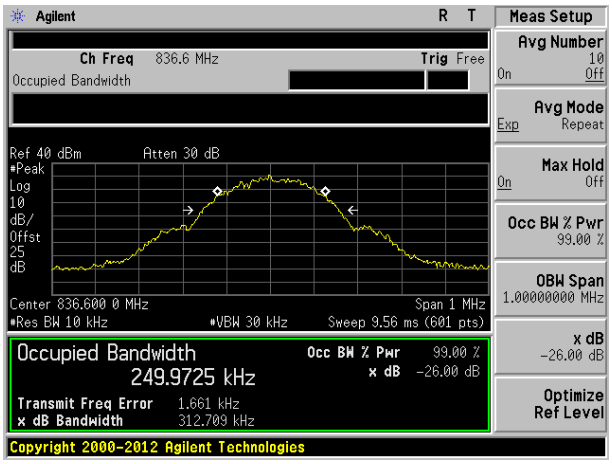
EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
GSM 850 (GSM link)	128	824.20	247.259	320.823
	190	836.60	249.973	312.709
	251	848.80	244.689	310.580
GSM 850 (GPRS 1 link)	128	824.20	248.459	315.929
	190	836.60	247.010	313.721
	251	848.80	245.950	327.047
GSM 850 (EGPRS 1 link)	128	824.20	255.888	340.375
	190	836.60	245.908	316.322
	251	848.80	262.344	340.218
PCS 1900 (GSM link)	512	1850.20	248.336	316.768
	661	1880.00	253.358	319.255
	810	1909.80	241.587	316.353
PCS 1900 (GPRS 1 link)	512	1850.20	248.111	327.274
	661	1880.00	244.718	318.272
	810	1909.80	240.777	322.359
PCS 1900 (EGPRS 1 link)	512	1850.20	245.597	324.732
	661	1880.00	238.973	312.241
	810	1909.80	237.811	321.062
WCDMA Band V (RMC 12.2Kbps link)	4132	826.40	4149.60	4692.00
	4183	836.60	4166.60	4707.00
	4233	846.60	4146.40	4728.00
WCDMA Band II (RMC 12.2Kbps link)	9262	1852.4	4172.30	4704.00
	9400	1880.0	4165.60	4714.00
	9538	1907.6	4182.90	4729.00

Test plot as follows:

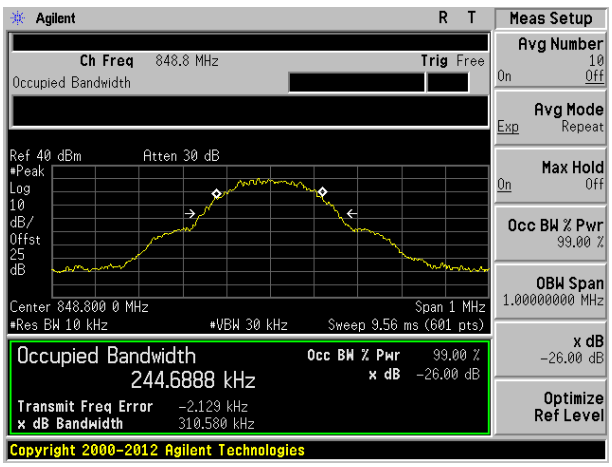
Test band:	GSM 850 (GSM link)



Lowest channel

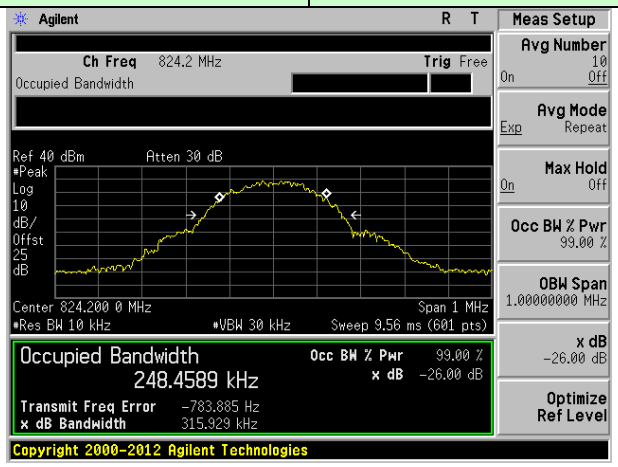


Middle channel



Highest channel

Test band:	GSM 850 (GPRS 1 link)



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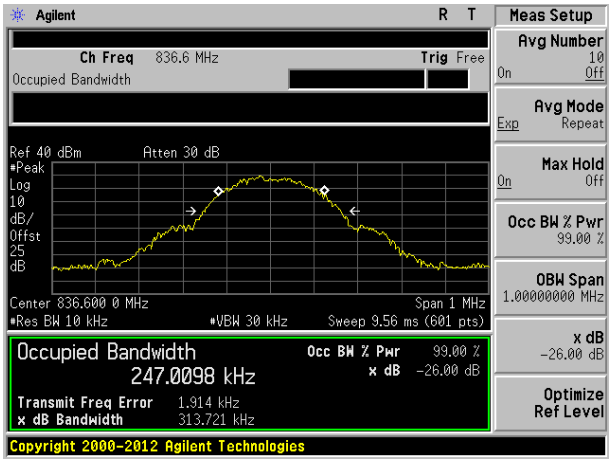
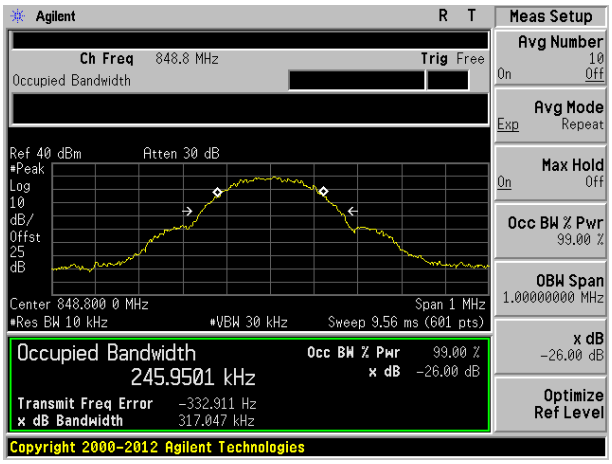
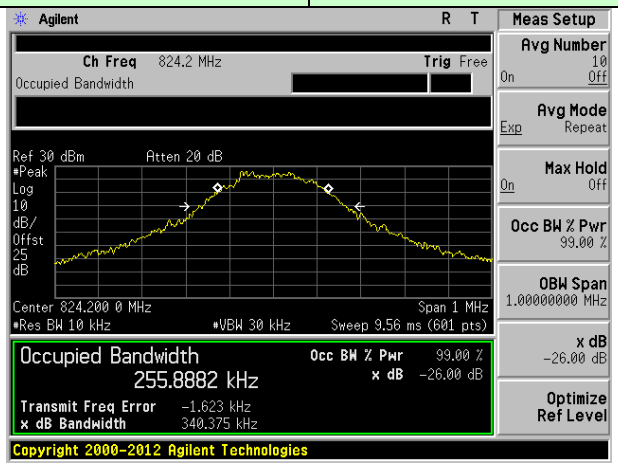


Middle channel

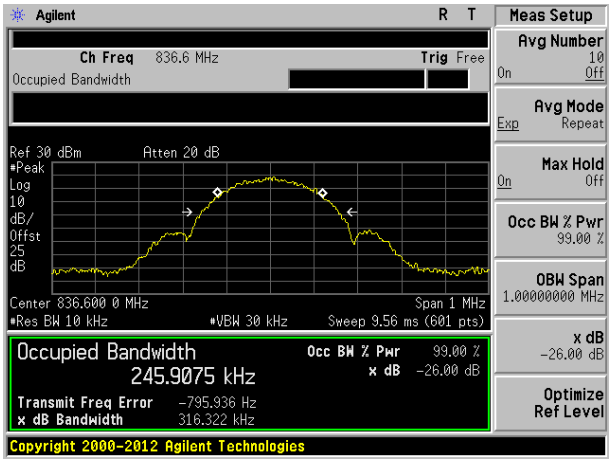


Highest channel

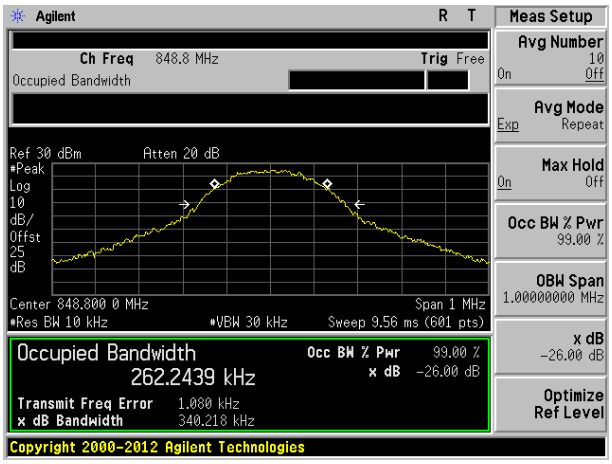
Test band:	GSM 850 (EGPRS 1 link)



Lowest channel

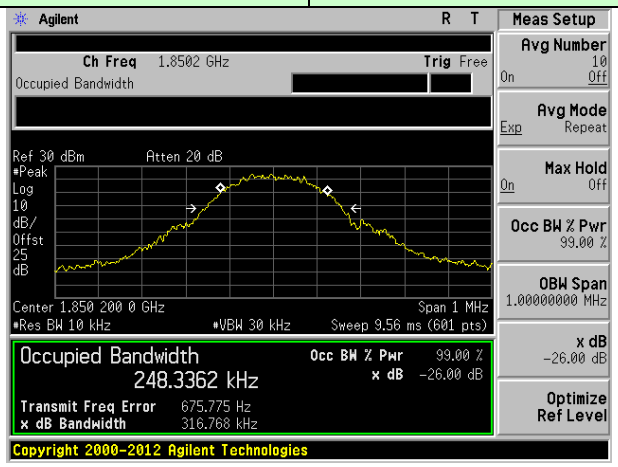


Middle channel

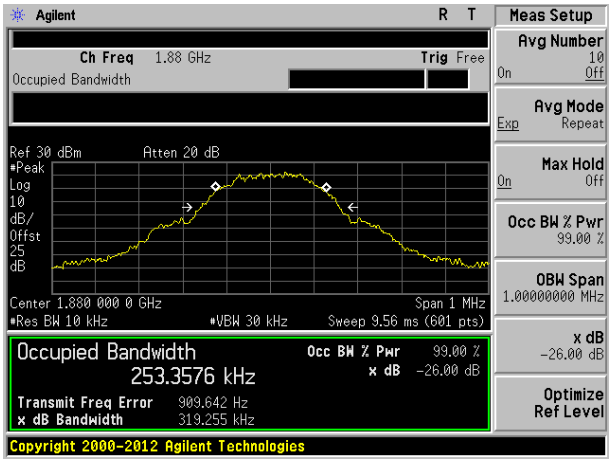


Highest channel

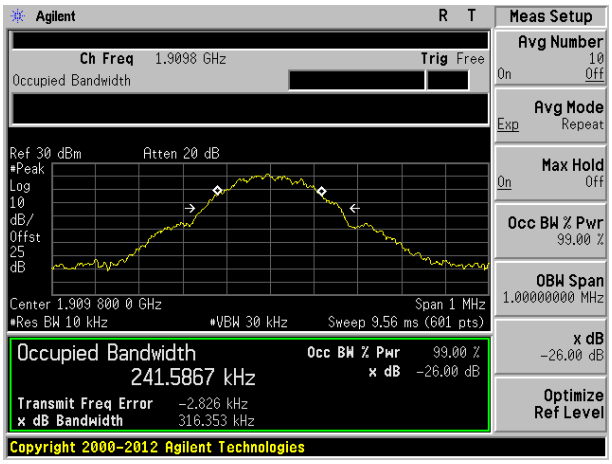
Test band:	PCS 1900 (GSM link)



Lowest channel

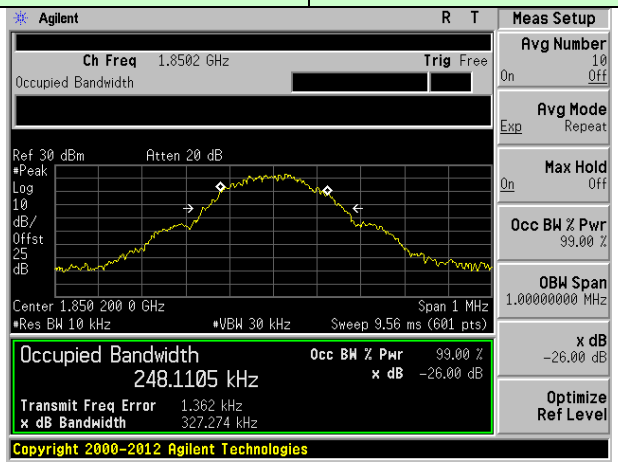


Middle channel

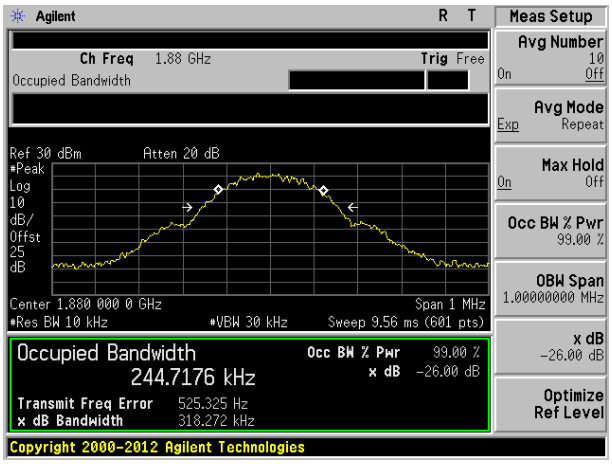


Highest channel

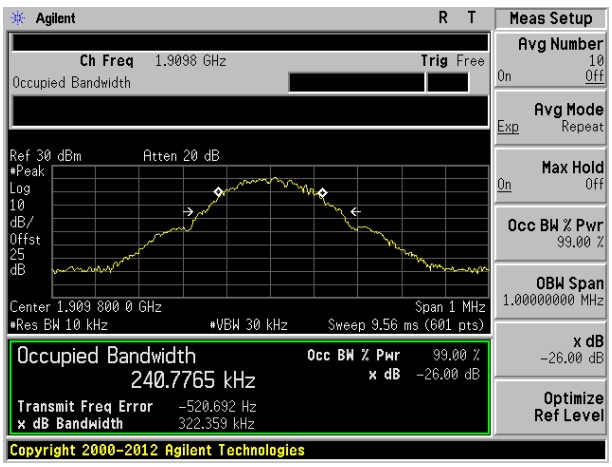
Test band:	PCS 1900 (GPRS 1 link)



Lowest channel

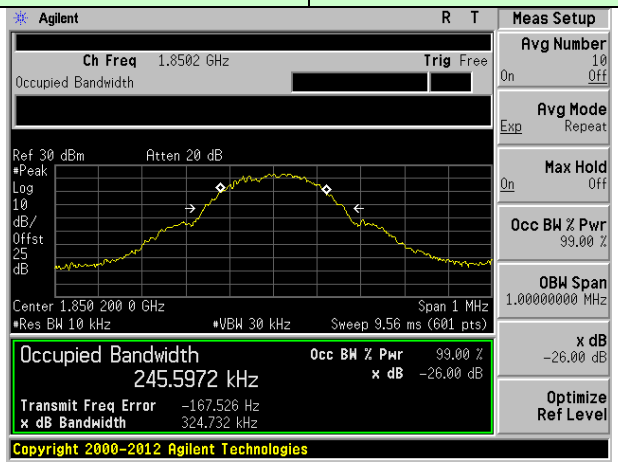


Middle channel

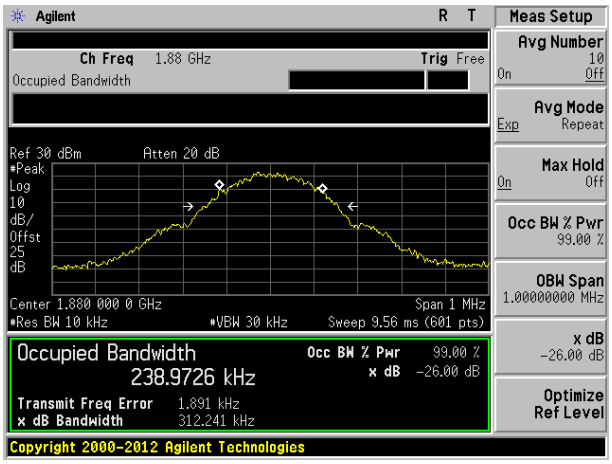


Highest channel

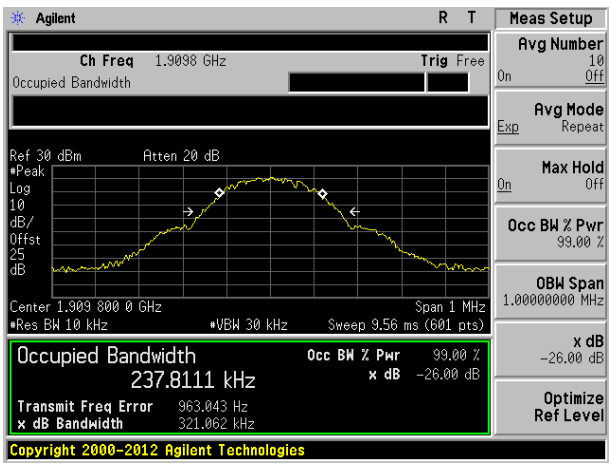
Test band:	PCS 1900 (EGPRS 1 link)



Lowest channel

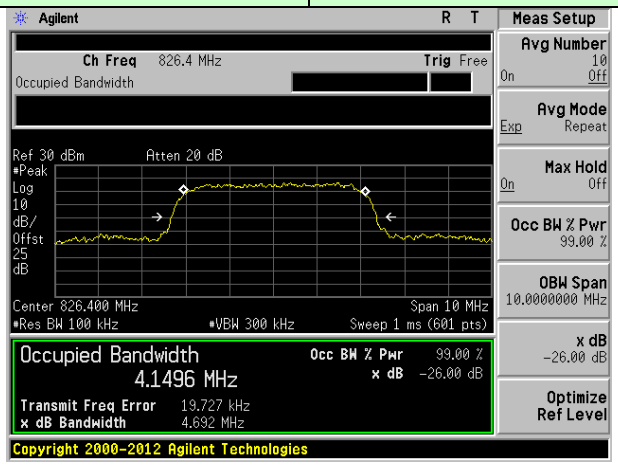


Middle channel

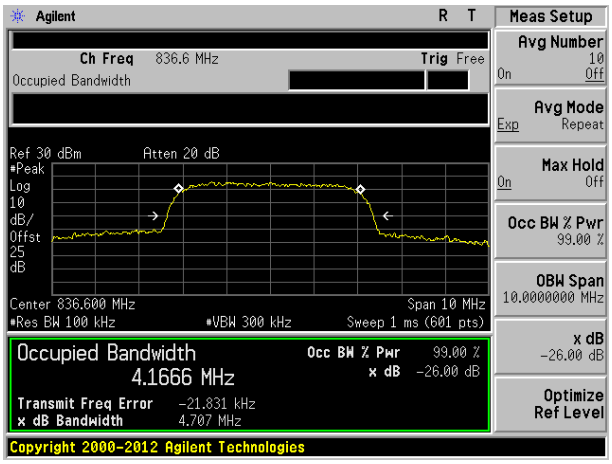


Highest channel

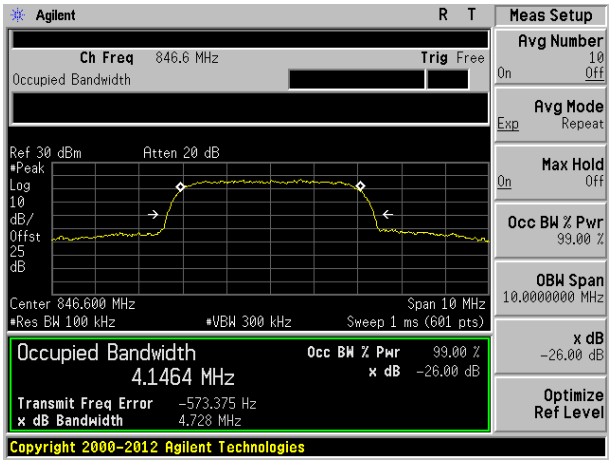
Test band:	WCDMA Band V (RMC 12.2Kbps link)



Lowest channel

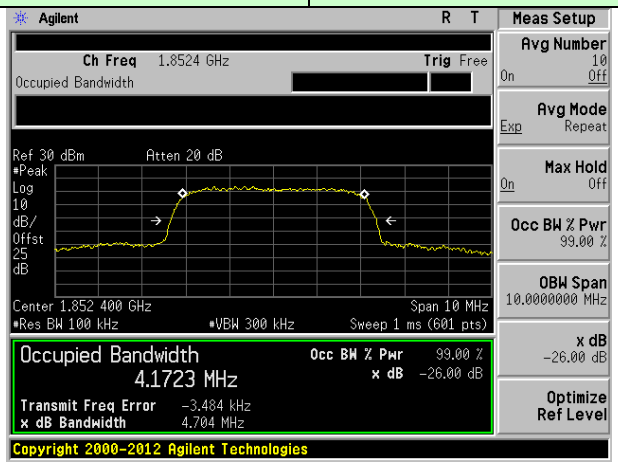


Middle channel

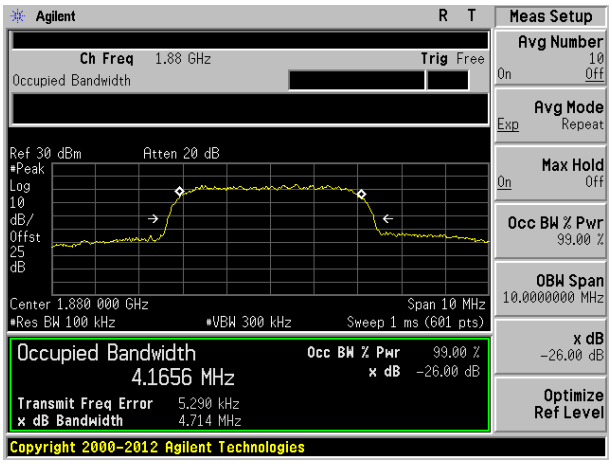


Highest channel

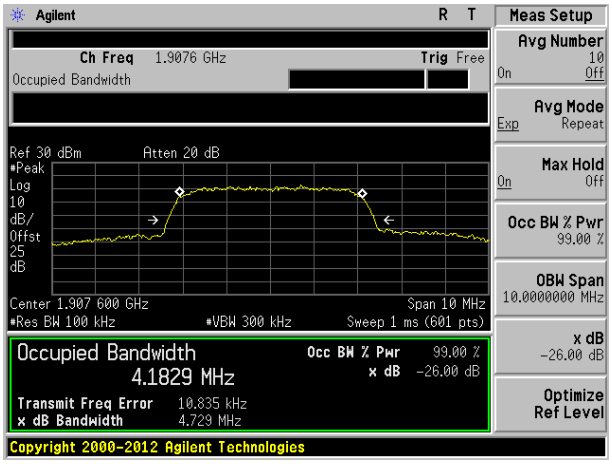
Test band:	WCDMA Band II (RMC 12.2Kbps link)



Lowest channel



Middle channel

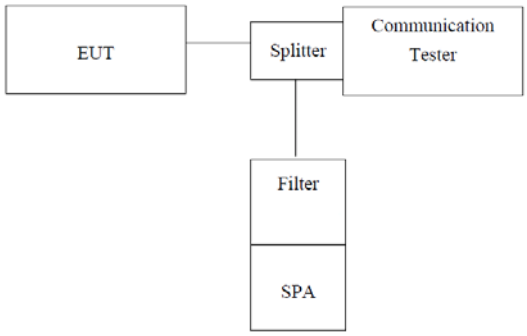


Highest channel

7.6 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.

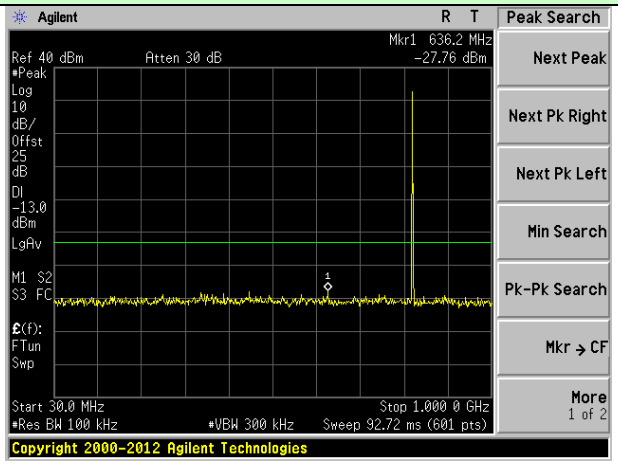
7.7 Out of band emission at antenna terminals

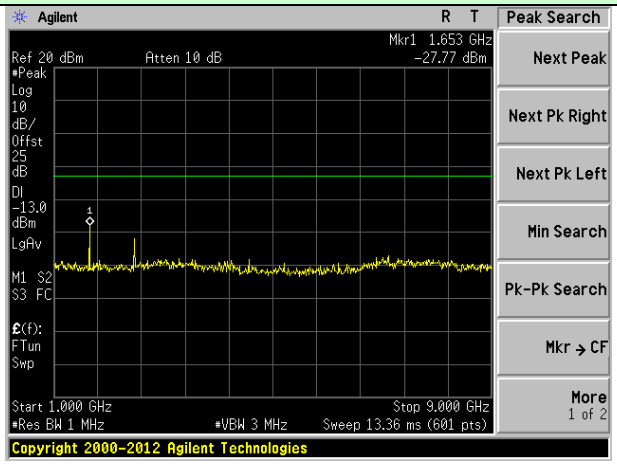
Test Requirement:	FCC part22.917(a) and FCC part24.238(a)
Test Method:	FCC part2.1051
Limit:	-13dBm
Test setup:	 *Note: Measurement setup for testing on Antenna connector*
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 The resolution 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 7.1 for details
Test results:	Pass

Test plot as follows:

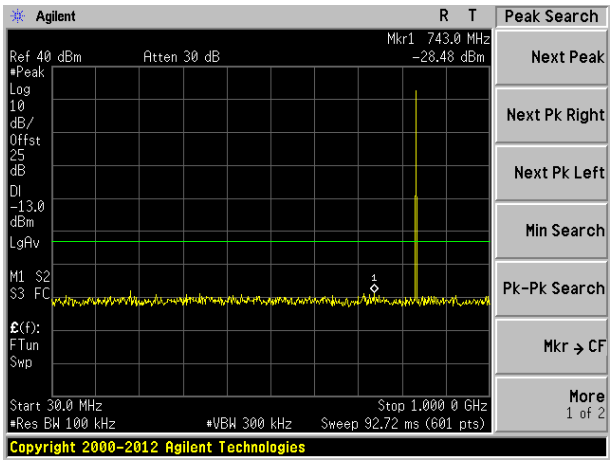
Note: During the conducted spurious emission test, a band filter was used. The information of the filter is reported at section 6.0 (refer to item 24, 25).

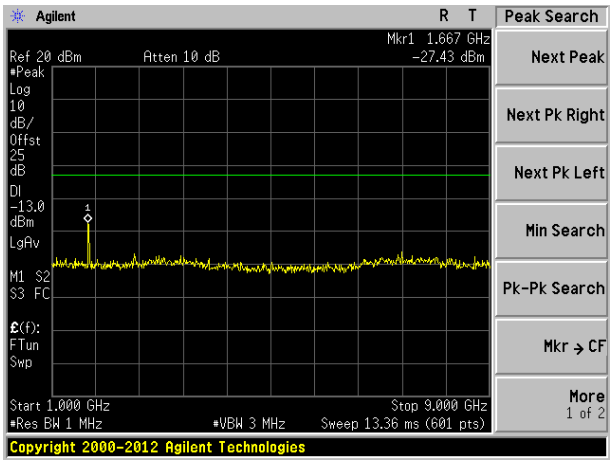
Test Mode: Traffic mode	GSM 850 (GSM link)



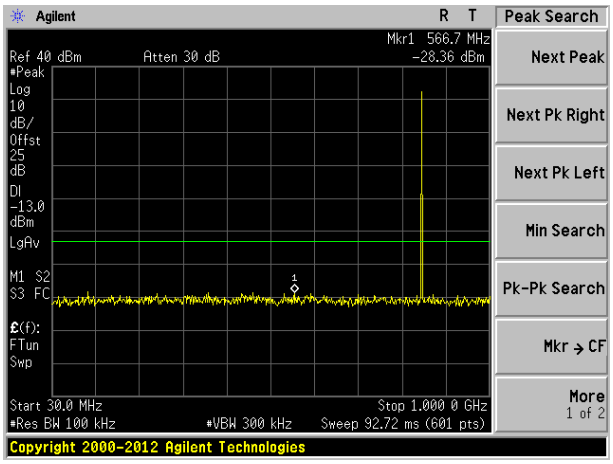


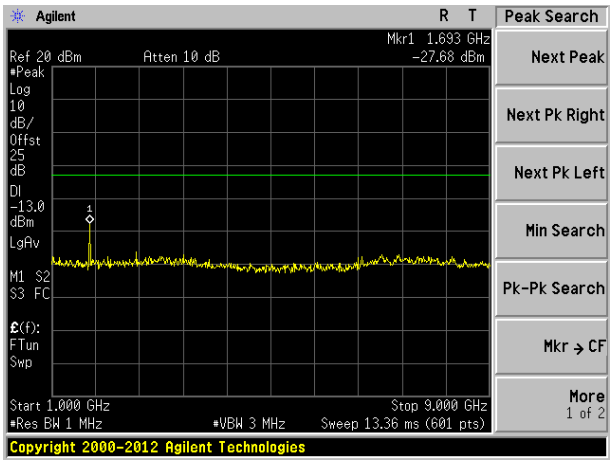
Lowest channel





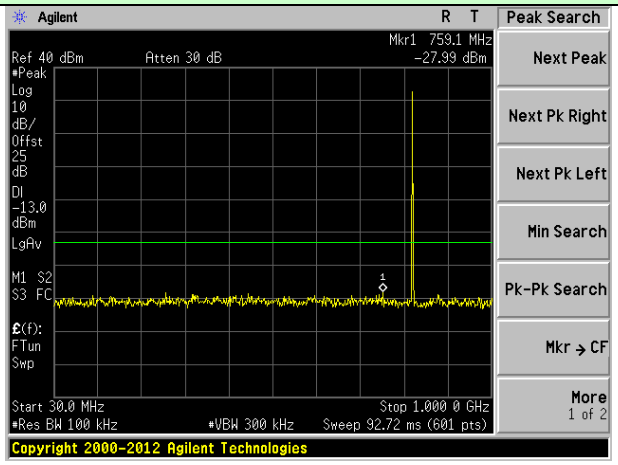
Middle channel

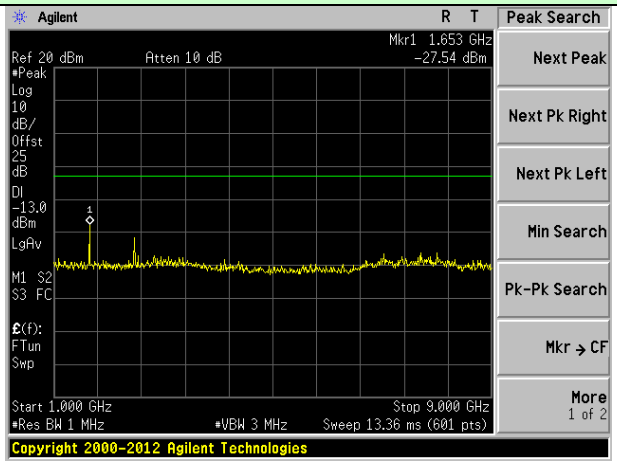




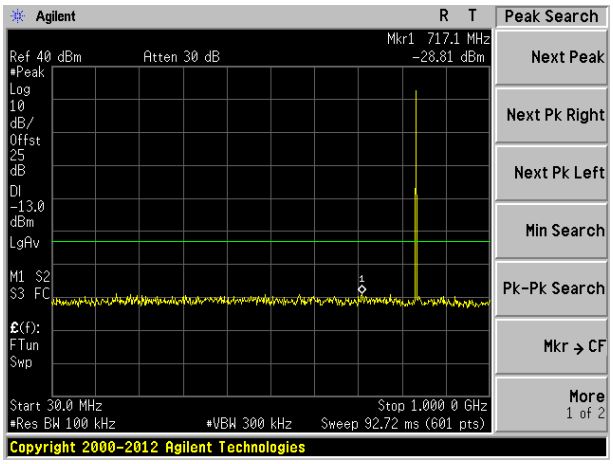
Highest channel

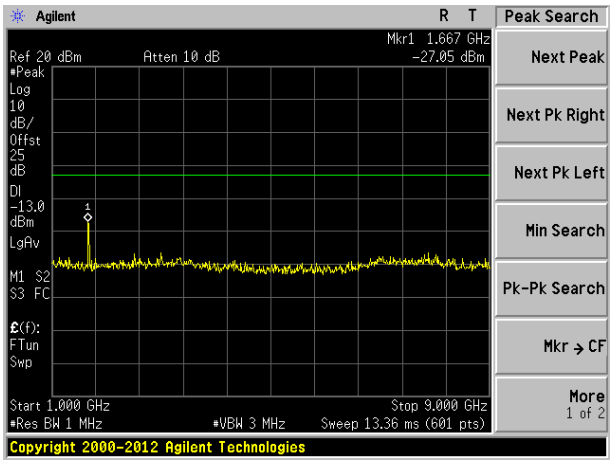
Test Mode: Traffic mode	GSM 850 (GPRS 1 link)



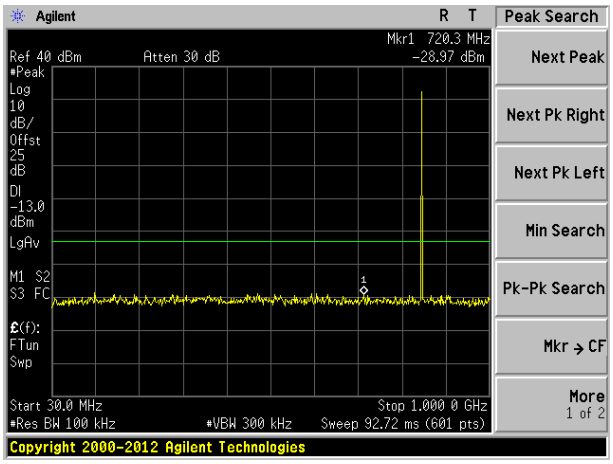


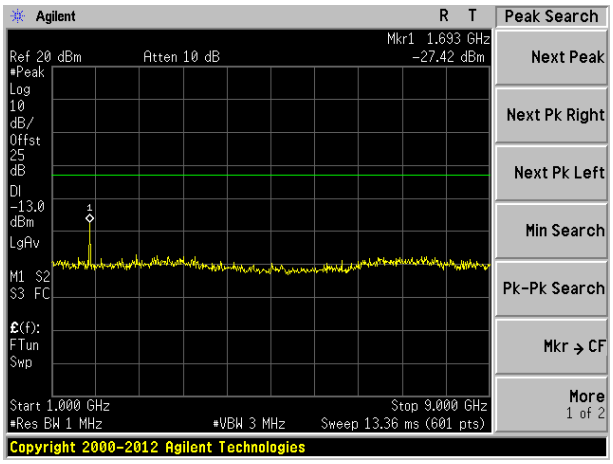
Lowest channel





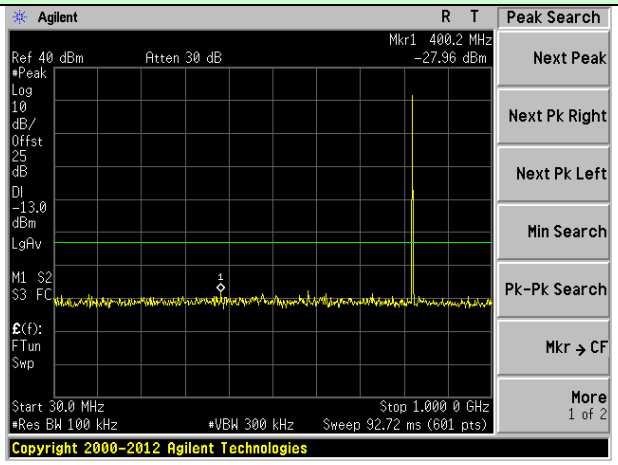
Middle channel

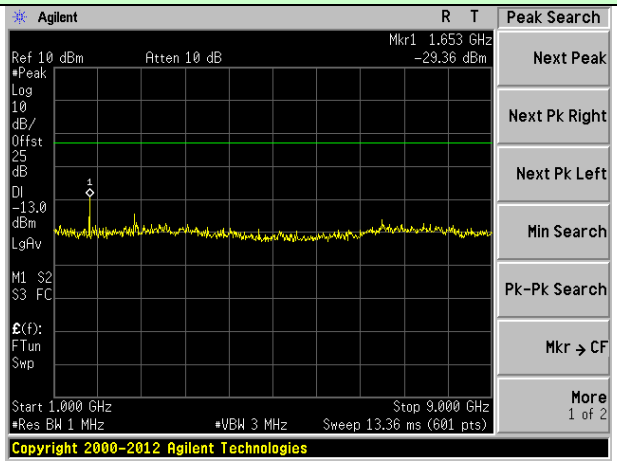




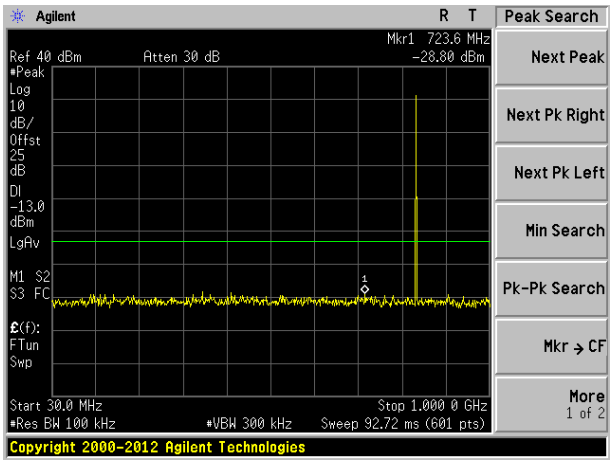
Highest channel

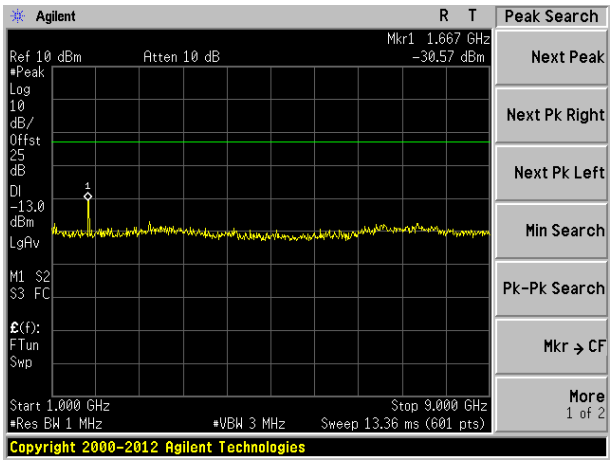
Test Mode: Traffic mode	GSM 850 (EGPRS 1 link)



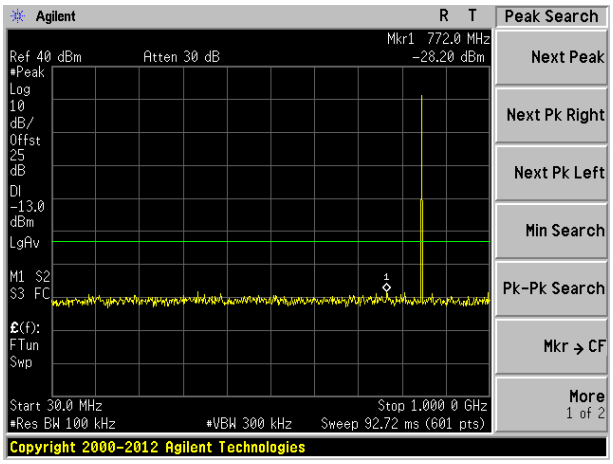


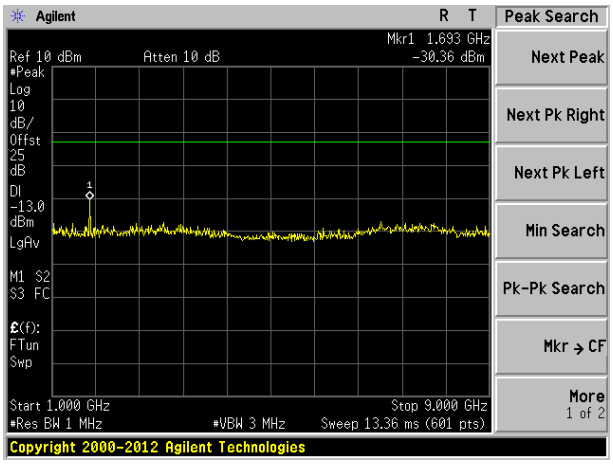
Lowest channel





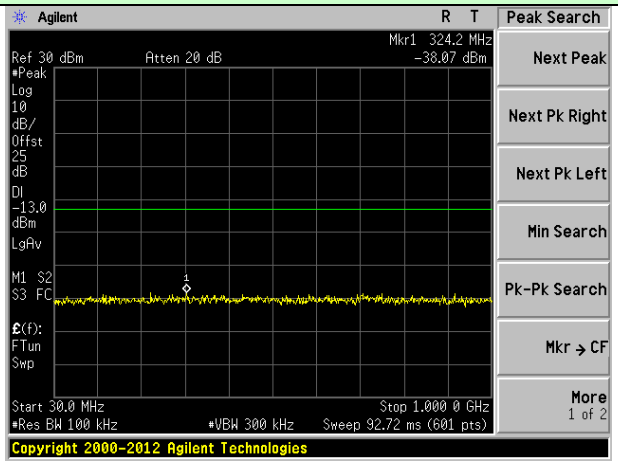
Middle channel

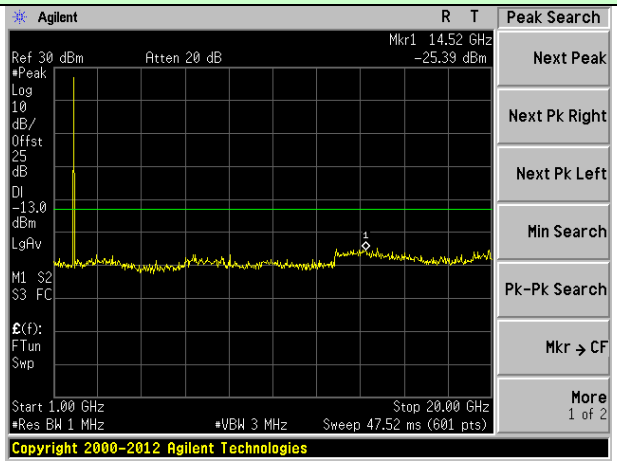




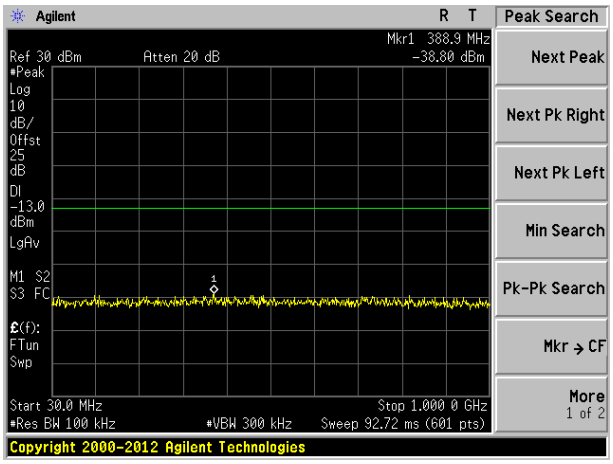
Highest channel

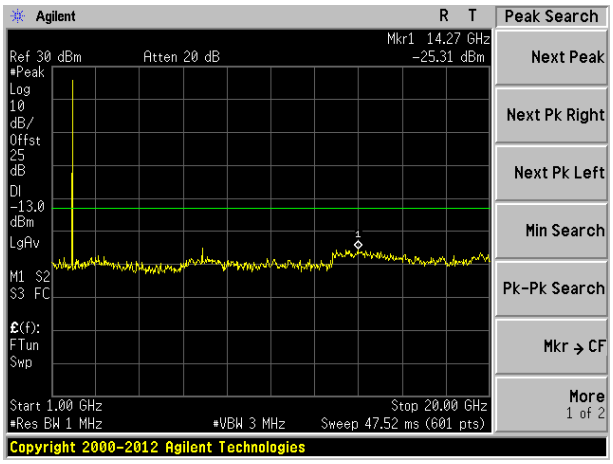
Test Mode: Traffic mode	PCS1900 (GSM link)



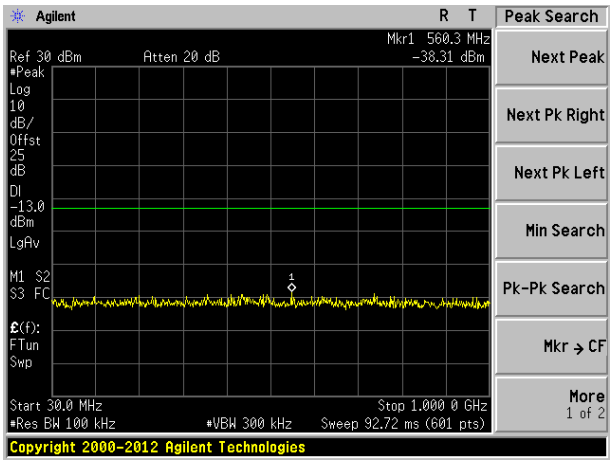


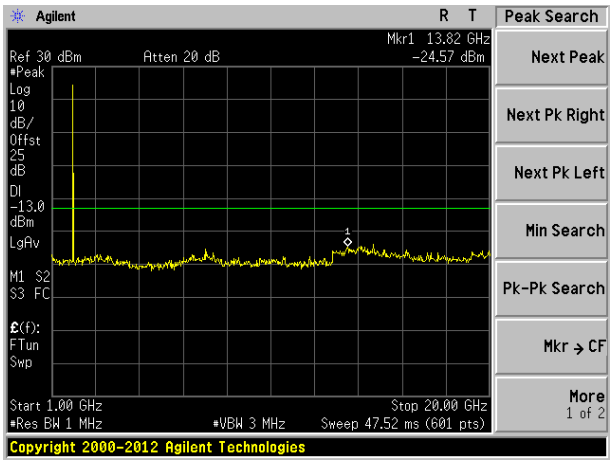
Lowest channel





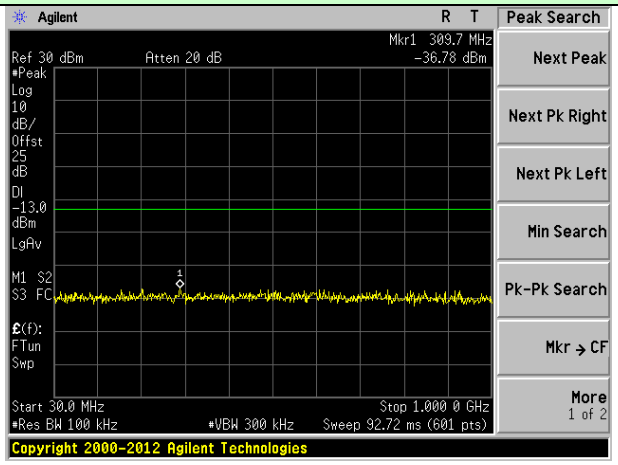
Middle channel

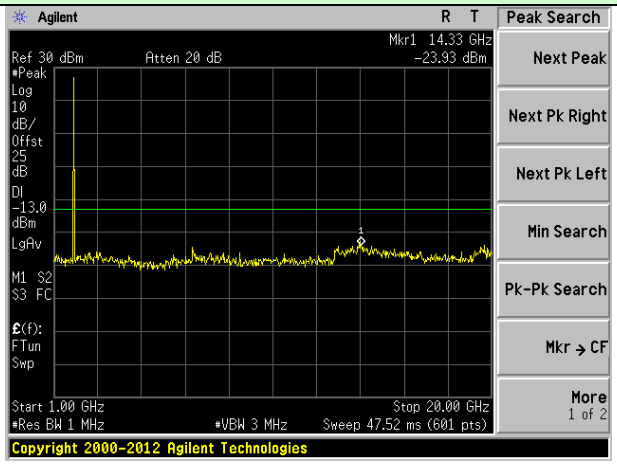




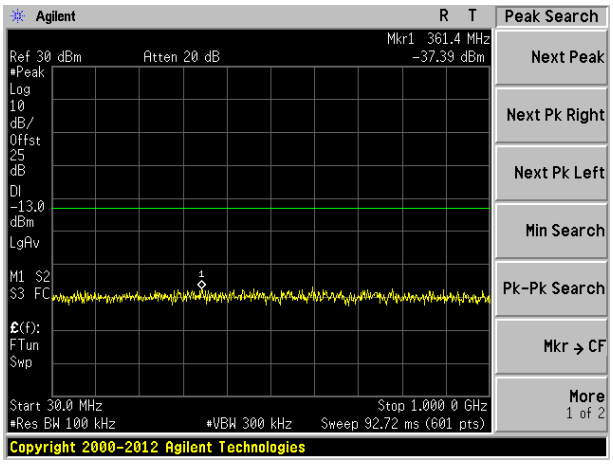
Highest channel

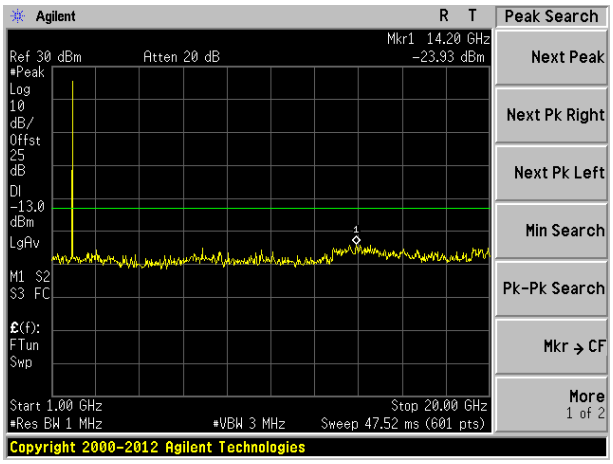
Test Mode: Traffic mode	PCS1900 (GPRS 1 link)



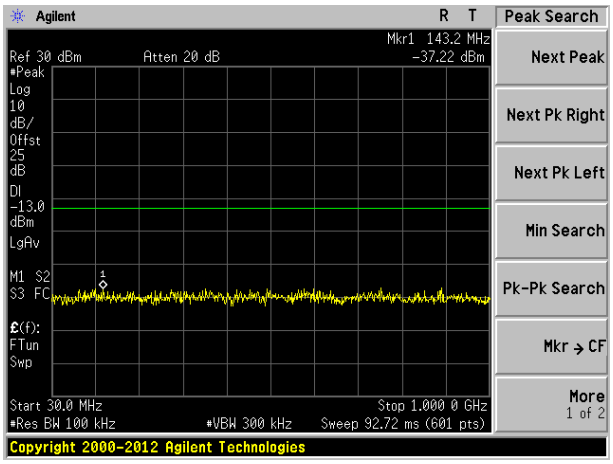


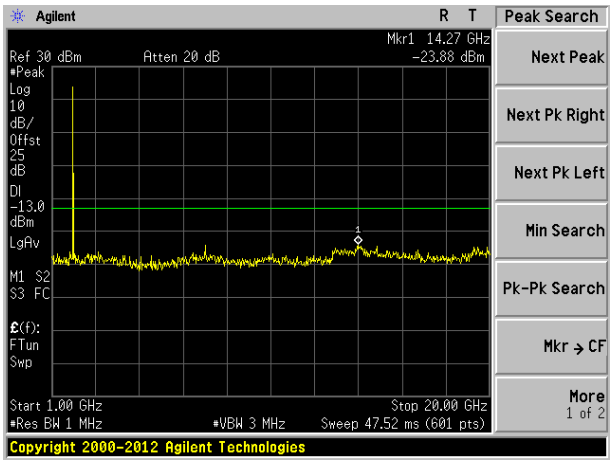
Lowest channel





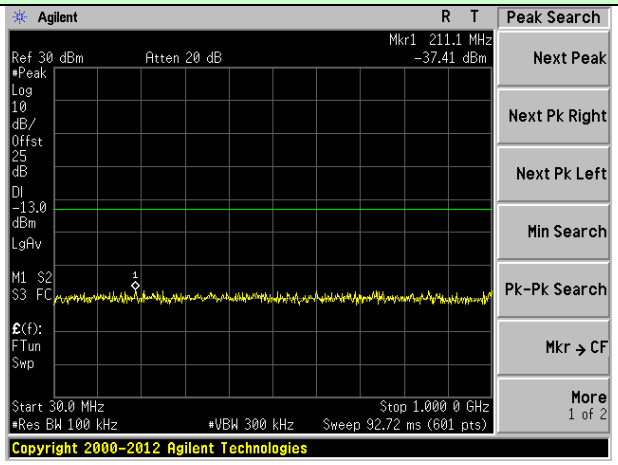
Middle channel

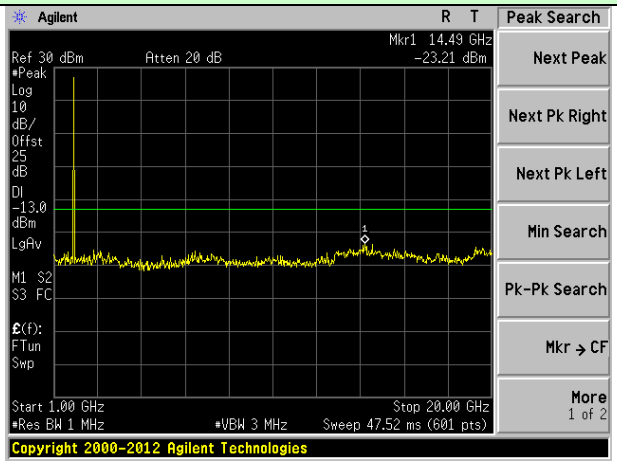




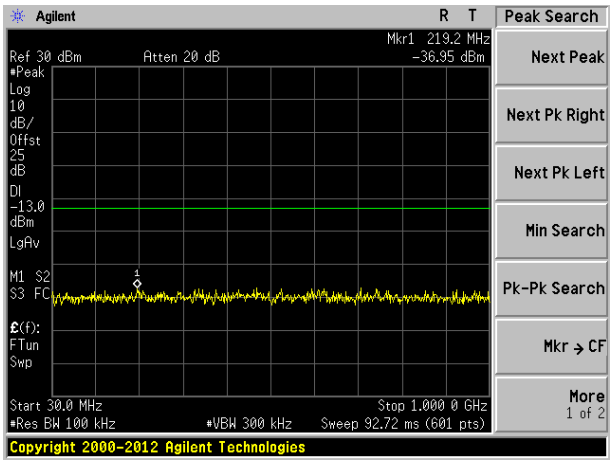
Highest channel

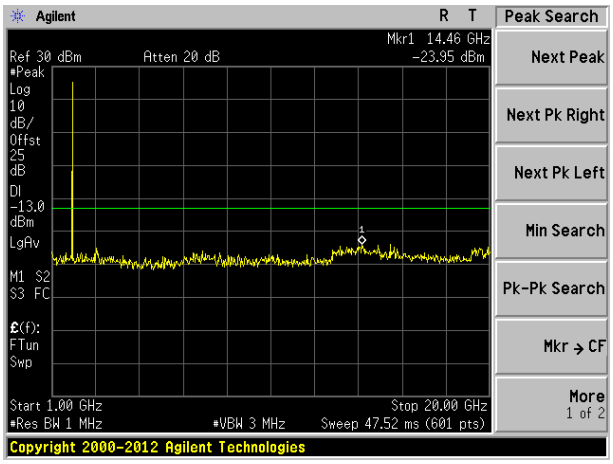
Test Mode: Traffic mode	PCS1900 (EGPRS 1 link)



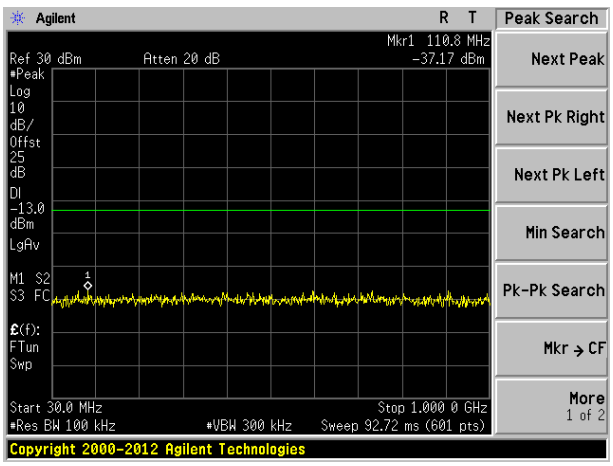


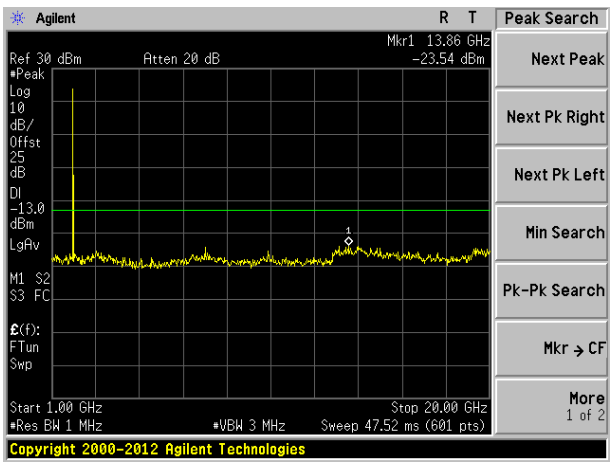
Lowest channel





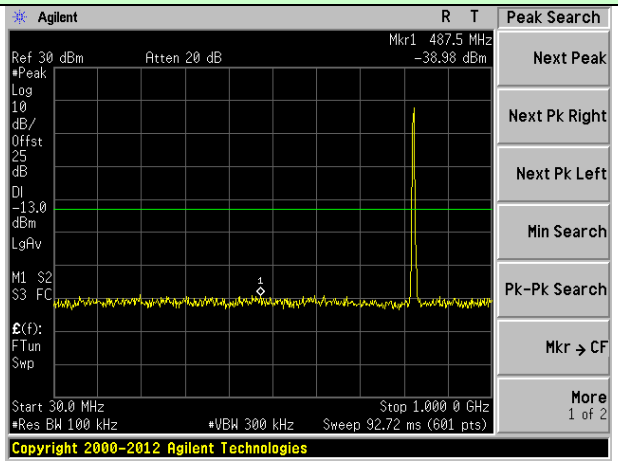
Middle channel

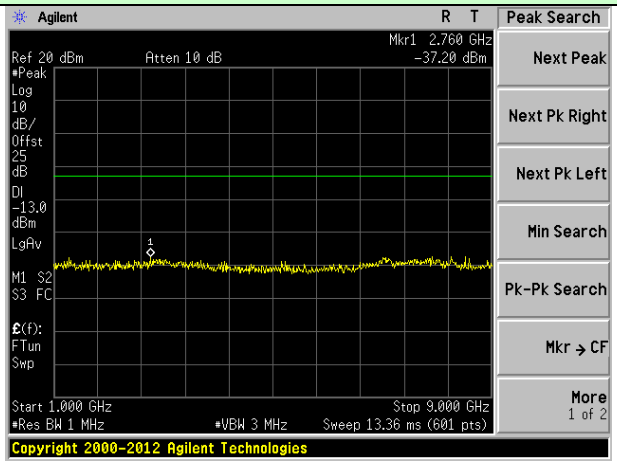




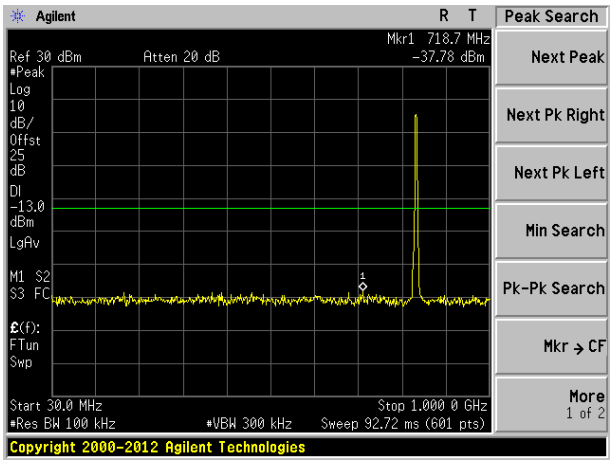
Highest channel

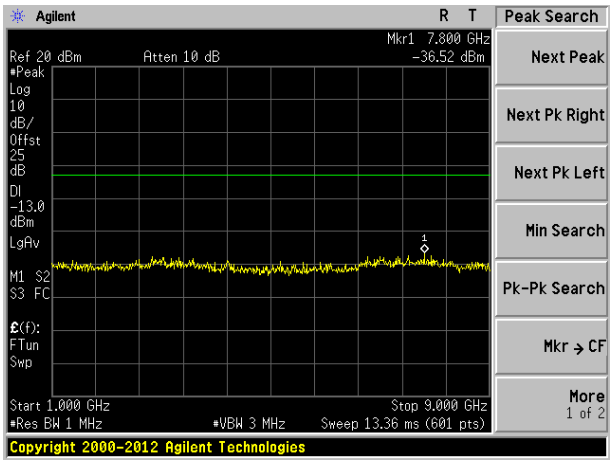
Test Mode: Traffic mode	WCDMA Band V (RMC 12.2Kbps link)



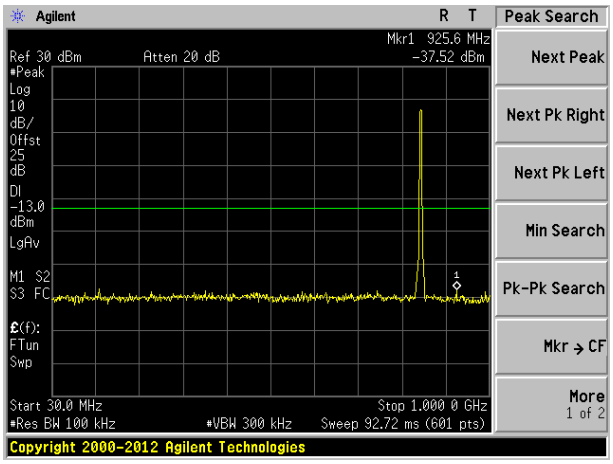


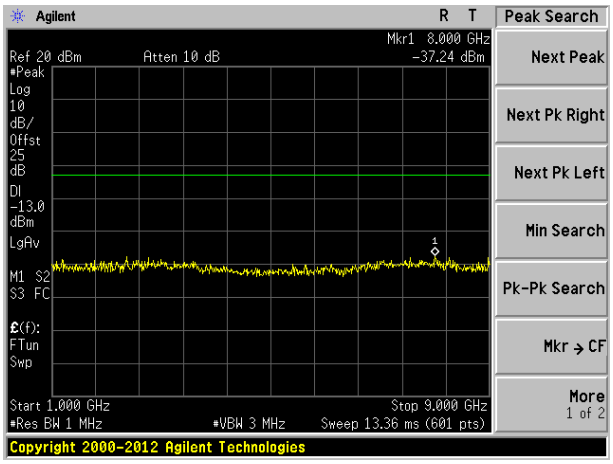
Lowest channel





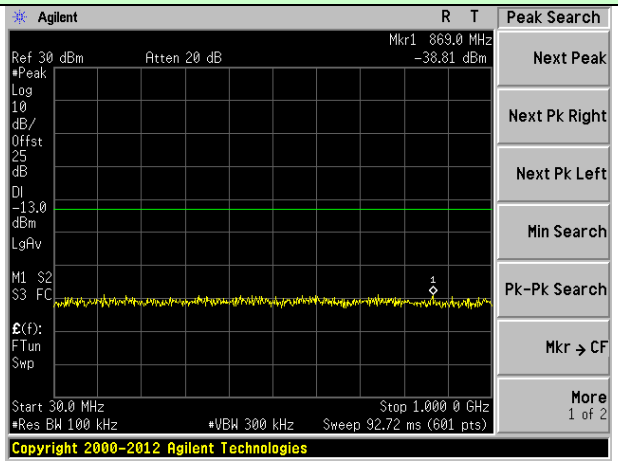
Middle channel

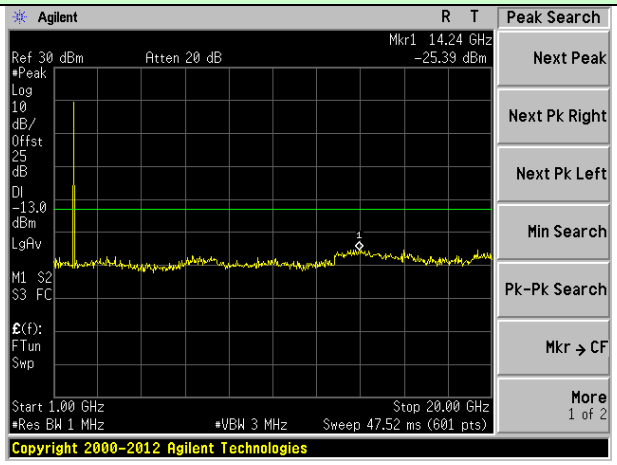




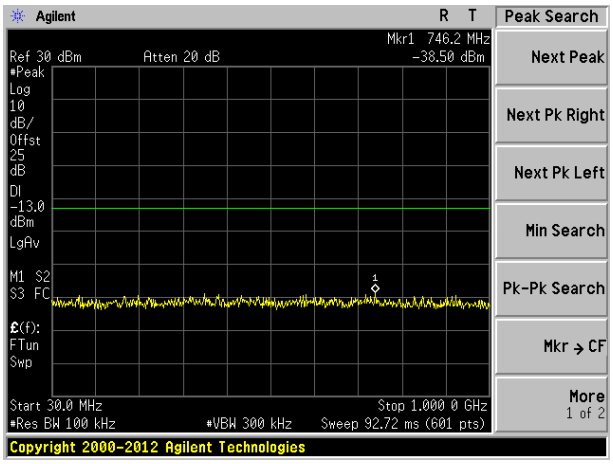
Highest channel

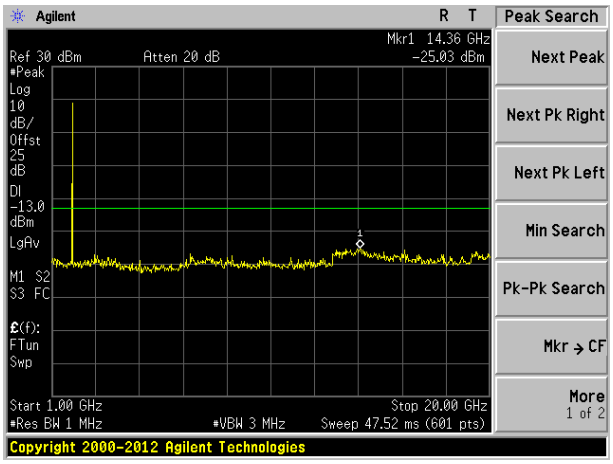
Test Mode: Traffic mode	WCDMA Band II (RMC 12.2Kbps link)



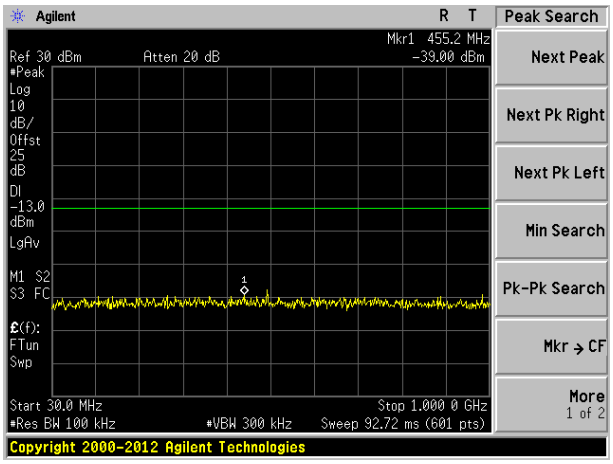


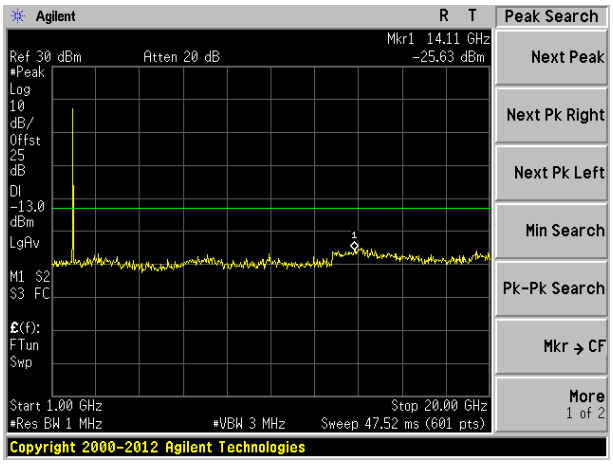
Lowest channel





Middle channel

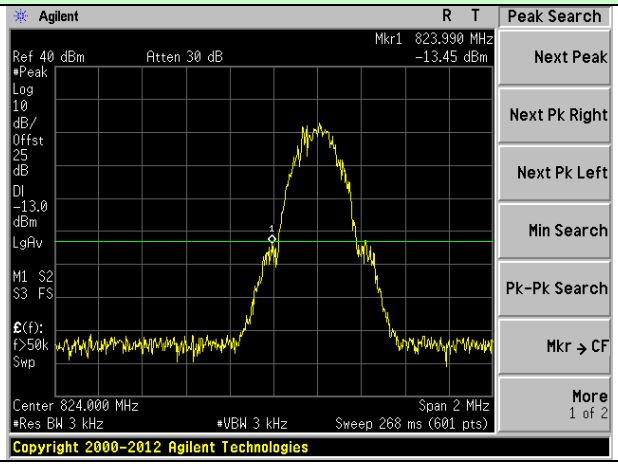




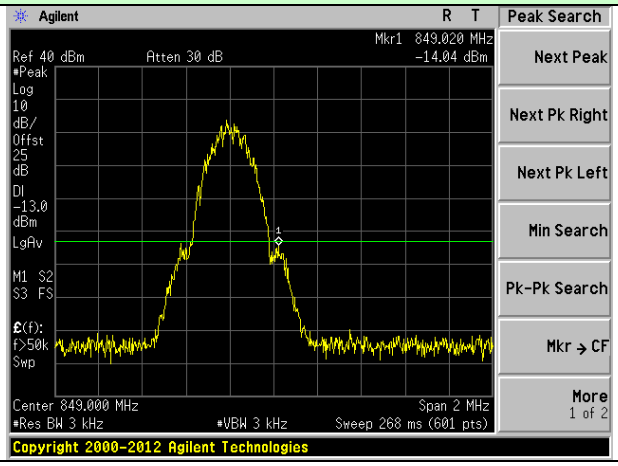
Highest channel

Band Edge:

Test Mode: Traffic mode	GSM850 (GSM link)

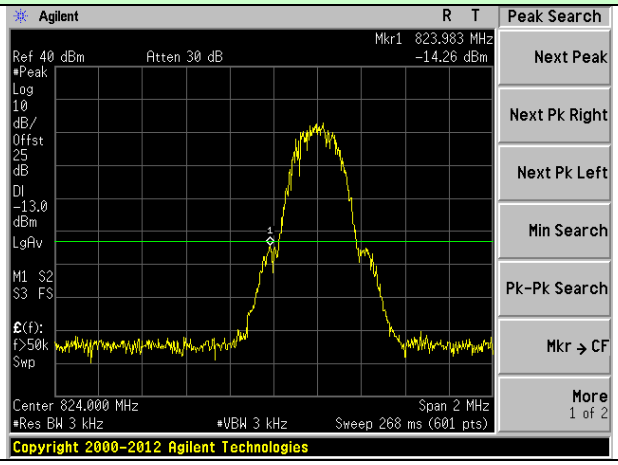


Lowest channel

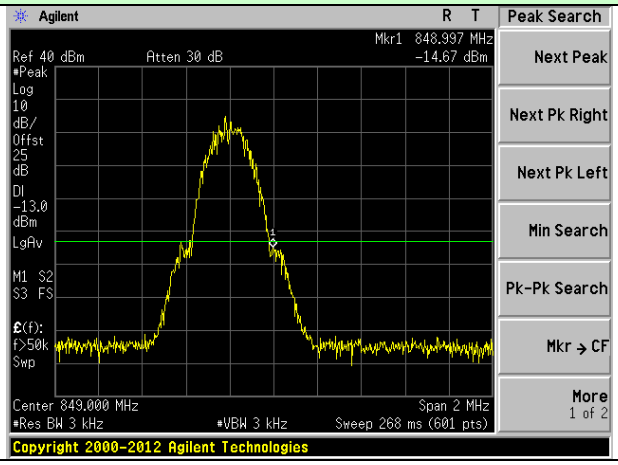


Highest channel

Test Mode: Traffic mode	GSM850 (GPRS 1 link)

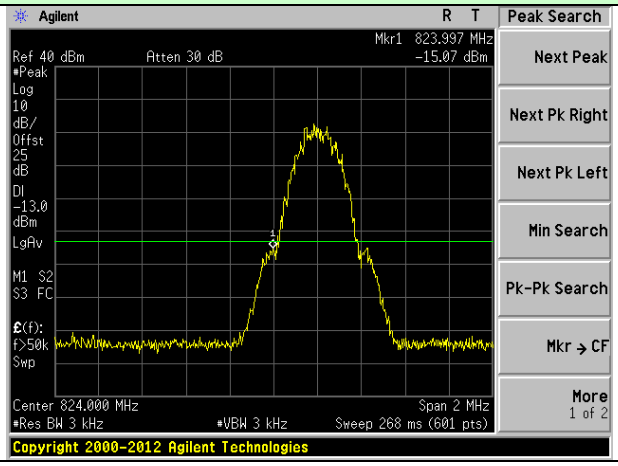


Lowest channel

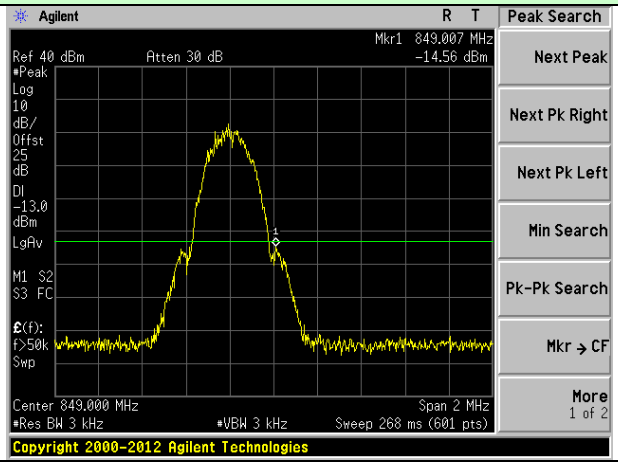


Highest channel

Test Mode: Traffic mode	GSM850 (EGPRS 1 link)

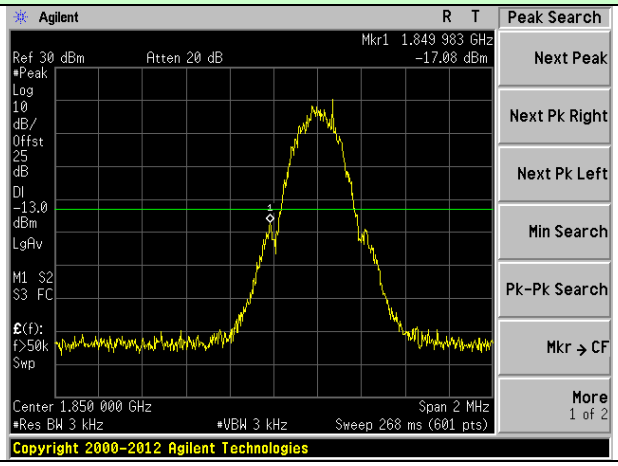


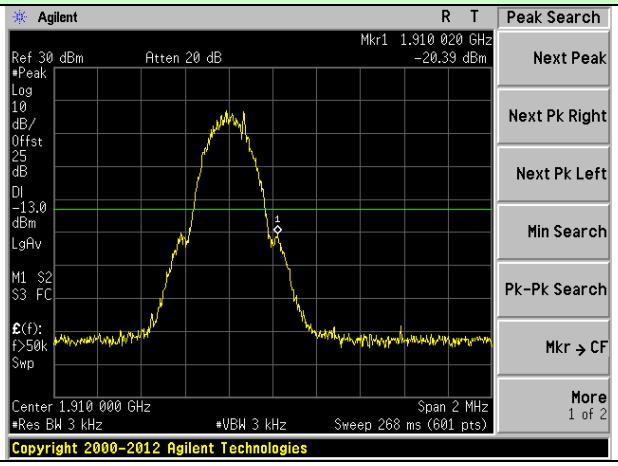
Lowest channel



Highest channel

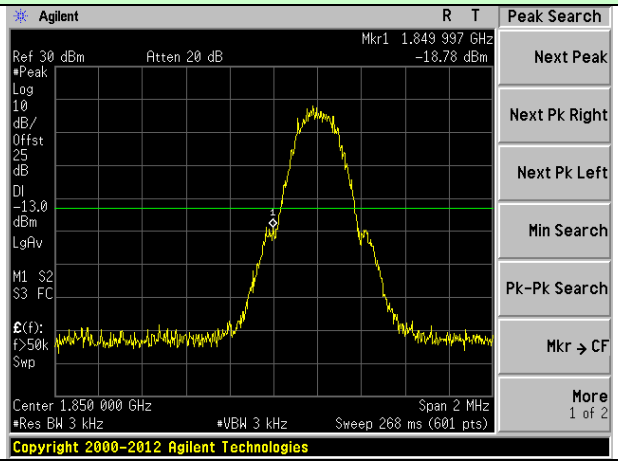
Test Mode: Traffic mode	PCS1900 (GSM link)

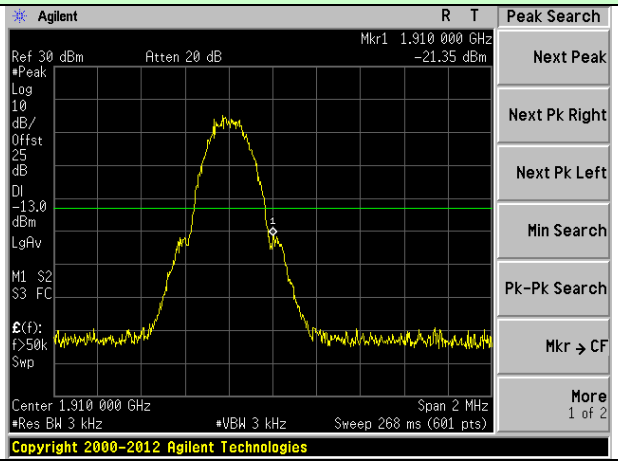




Lowest channel | Highest channel

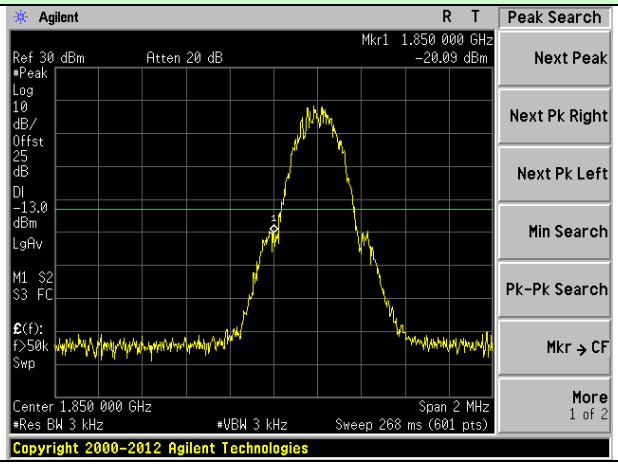
Test Mode: Traffic mode	PCS1900 (GPRS 1 link)

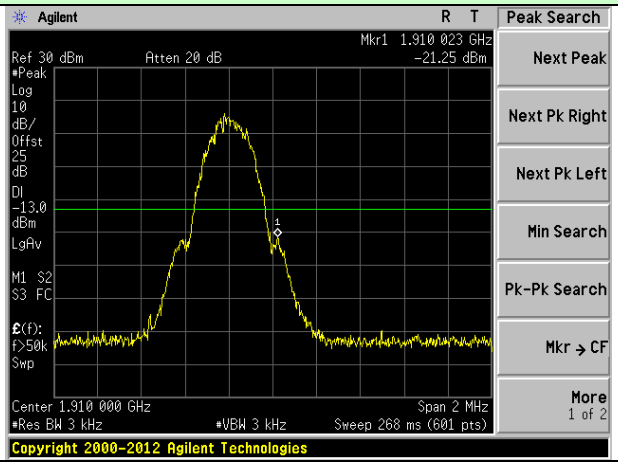




Lowest channel | Highest channel

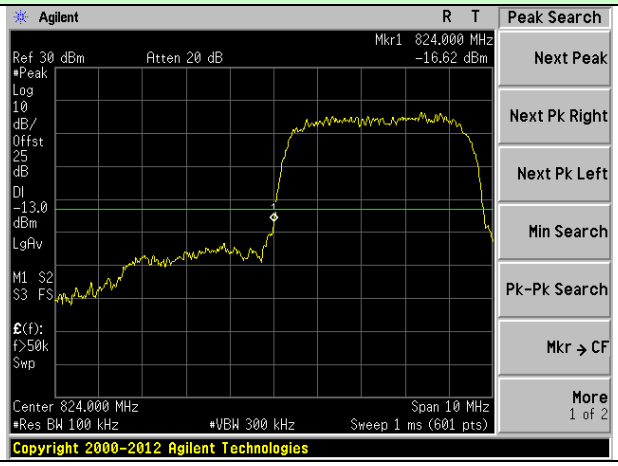
Test Mode: Traffic mode	PCS1900 (EGPRS 1 link)



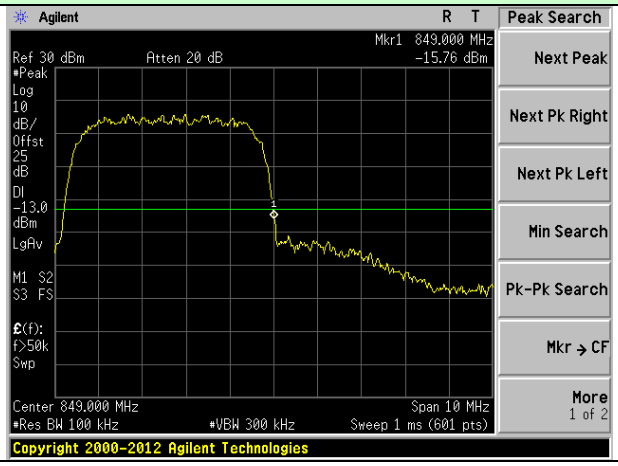


Lowest channel | Highest channel

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

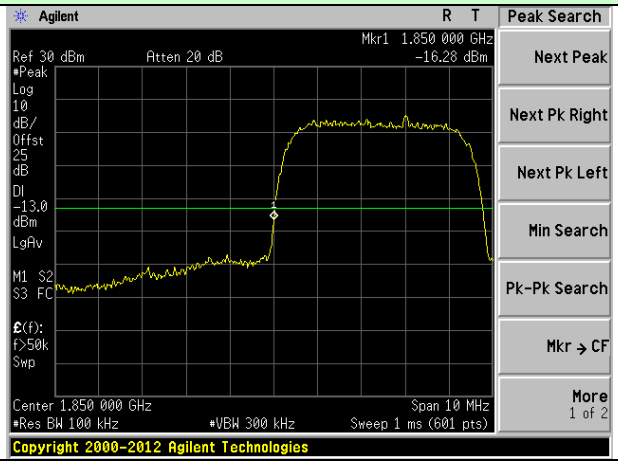


Lowest channel

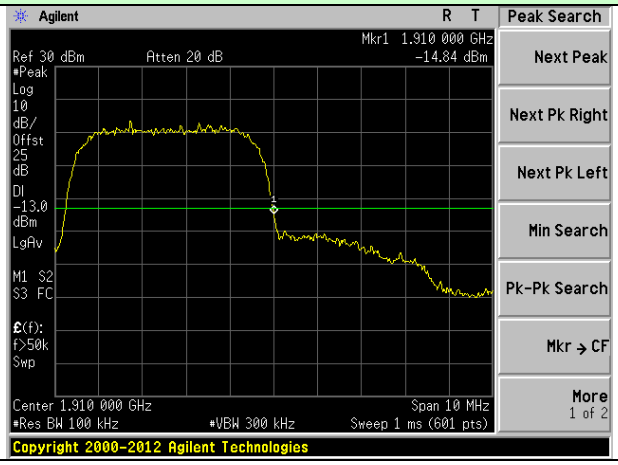


Highest channel

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

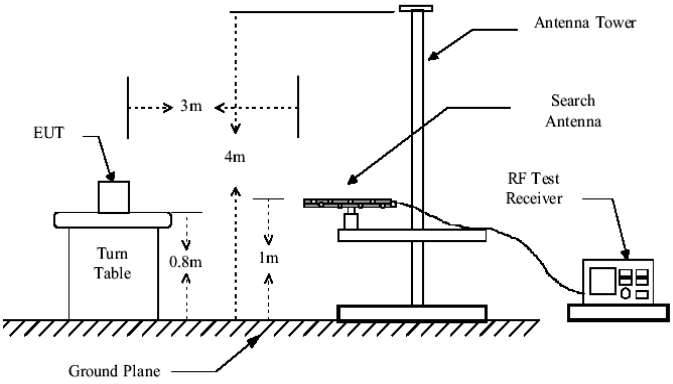
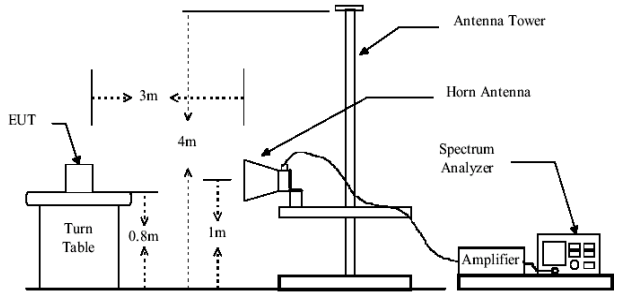
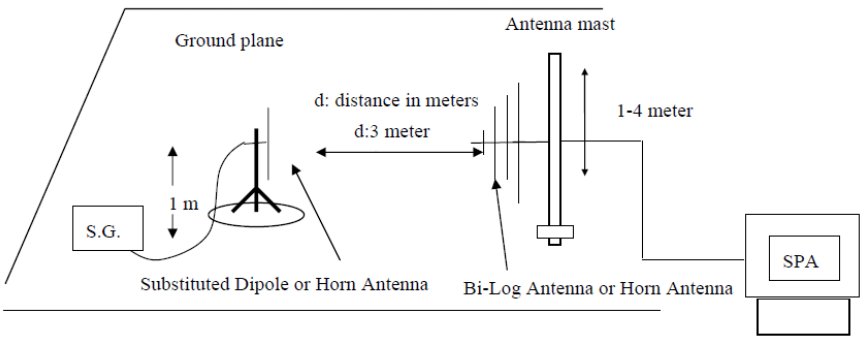


Lowest channel



Highest channel

7.8 ERP, EIRP Measurement

Test Requirement:	FCC part22.913(a) and FCC part24.232(b)
Test Method:	FCC part2.1046
Limit:	GSM850, WCDMA Band V: 7W ERP PCS1900, WCDMA Band II: 2W EIRP
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 

Test Procedure:	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 asfollows: ERP = S.G. output (dBm) + Antenna Gain (dBd) – 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: EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 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	32.12	38.45	Pass
			H	29.02		
		E1	V	23.68		
			H	29.24		
		E2	V	22.79		
			H	26.90		
	Middle	H	V	32.07	38.45	Pass
			H	28.97		
		E1	V	23.71		
			H	29.31		
		E2	V	24.44		
			H	27.47		
	Highest	H	V	32.49	38.45	Pass
			H	28.75		
		E1	V	23.71		
			H	28.25		
		E2	V	22.64		
			H	28.04		

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
GSM850 (GPRS 1 link)	Lowest	H	V	31.73	38.45	Pass
			H	28.60		
		E1	V	23.24		
			H	28.76		
		E2	V	22.28		
			H	26.37		
	Middle	H	V	31.58	38.45	Pass
			H	28.41		
		E1	V	23.12		
			H	28.69		
		E2	V	23.89		
			H	26.89		
	Highest	H	V	32.01	38.45	Pass
			H	28.24		
		E1	V	23.17		
			H	27.69		
		E2	V	22.20		
			H	27.57		

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
GSM850 (EGPRS 1 link)	Lowest	H	V	27.53	38.45	Pass
			H	24.49		
		E1	V	19.12		
			H	25.01		
		E2	V	18.50		
			H	22.90		
	Middle	H	V	27.81	38.45	Pass
			H	24.94		
		E1	V	19.71		
			H	25.64		
		E2	V	20.23		
			H	23.51		
	Highest	H	V	28.02	38.45	Pass
			H	24.31		
		E1	V	19.26		
			H	24.10		
		E2	V	17.63		
			H	23.36		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
PCS1900 (GSM link)	Lowest	H	V	28.44	33.01	Pass
			H	25.68		
		E1	V	20.90		
			H	25.90		
		E2	V	20.12		
			H	23.82		
	Middle	H	V	28.50	33.01	Pass
			H	25.73		
		E1	V	21.05		
			H	26.07		
		E2	V	21.68		
			H	24.40		
	Highest	H	V	28.97	33.01	Pass
			H	25.62		
		E1	V	21.13		
			H	25.20		
		E2	V	20.12		
			H	24.98		

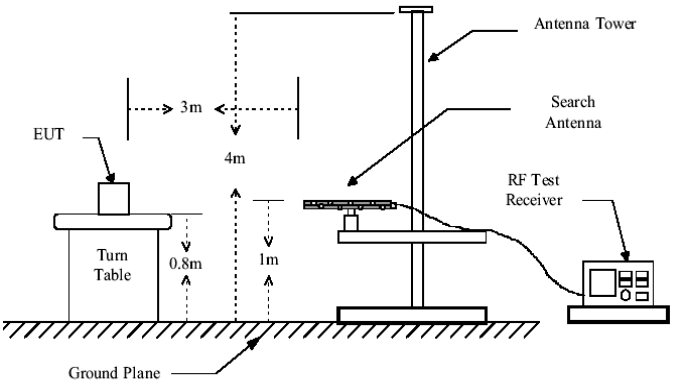
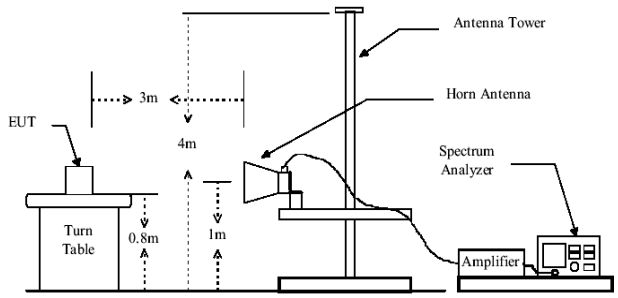
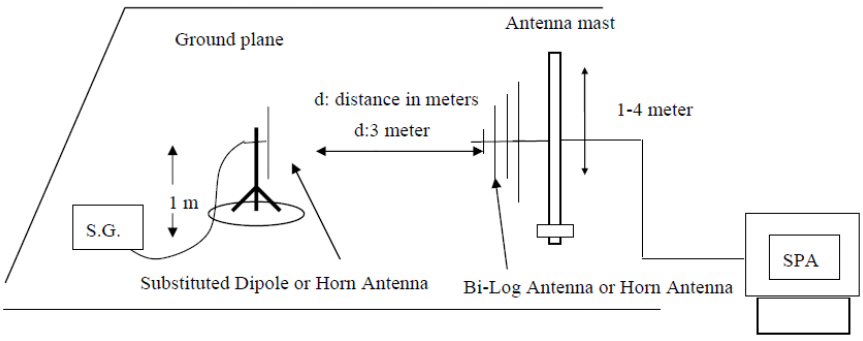
EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
PCS1900 (GPRS 1 link)	Lowest	H	V	27.99	33.01	Pass
			H	25.19		
		E1	V	20.38		
			H	25.34		
		E2	V	19.53		
			H	23.19		
	Middle	H	V	27.92	33.01	Pass
			H	25.08		
		E1	V	20.34		
			H	25.33		
		E2	V	21.03		
			H	23.71		
	Highest	H	V	28.40	33.01	Pass
			H	25.02		
		E1	V	20.49		
			H	24.53		
		E2	V	19.61		
			H	24.43		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
PCS1900 (EGPRS 1 link)	Lowest	H	V	24.79	33.01	Pass
			H	20.46		
		E1	V	14.70		
			H	20.66		
		E2	V	13.71		
			H	18.13		
	Middle	H	V	23.67	33.01	Pass
			H	20.30		
		E1	V	14.65		
			H	20.65		
		E2	V	15.43		
			H	18.69		
	Highest	H	V	24.07	33.01	Pass
			H	20.03		
		E1	V	14.62		
			H	19.49		
		E2	V	13.50		
			H	19.30		

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
WCDMA Band V	Lowest	H	V	21.30	38.45	Pass
			H	18.88		
		E1	V	15.03		
			H	18.15		
		E2	V	13.59		
			H	15.79		
	Middle	H	V	19.88	38.45	Pass
			H	16.92		
		E1	V	13.02		
			H	16.15		
		E2	V	14.12		
			H	15.63		
	Highest	H	V	18.87	38.45	Pass
			H	16.05		
		E1	V	12.38		
			H	14.86		
		E2	V	13.23		
			H	16.24		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
WCDMA Band II	Lowest	H	V	22.77	33.01	Pass
			H	21.05		
		E1	V	17.45		
			H	20.81		
		E2	V	16.50		
			H	18.95		
	Middle	H	V	22.67	33.01	Pass
			H	20.26		
		E1	V	16.67		
			H	20.06		
		E2	V	17.41		
			H	19.16		
	Highest	H	V	21.59	33.01	Pass
			H	19.02		
		E1	V	15.60		
			H	18.32		
		E2	V	15.58		
			H	18.84		

7.9 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:	Below 1GHz  Above 1GHz  Substituted method: 

Test Procedure:	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. ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 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	-35.86	-13.00	Pass
2472.60	V	-38.60		
3296.80	V	-40.87		
4121.00	V	-43.03		
4945.20	V	---		
1648.40	Horizontal	-41.11	-13.00	Pass
2472.60	H	-44.98		
3296.80	H	-46.56		
4121.00	H	-49.30		
4945.20	H	---		
Test mode:	**GSM850**		**Test channel:**	**Middle**
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1673.20	Vertical	-37.24	-13.00	Pass
2509.80	V	-39.52		
3346.40	V	-41.42		
4183.00	V	-43.23		
5019.60	V	---		
1673.20	Horizontal	-41.62	-13.00	Pass
2509.80	H	-44.85		
3346.40	H	-46.16		
4183.00	H	-48.44		
5019.60	H	---		
Test mode:	**GSM850**		**Test channel:**	**Highest**
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1697.60	Vertical	-37.49	-13.00	Pass
2546.40	V	-39.52		
3395.20	V	-41.20		
4244.00	V	-42.81		
5092.80	V	---		
1697.60	Horizontal	-41.38	-13.00	Pass
2546.40	H	-44.26		
3395.20	H	-45.42		
4244.00	H	-47.45		
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	-36.96	-13.00	Pass
5550.60	V	-39.35		
7400.80	V	-41.32		
9251.00	V	-43.22		
11101.20	V	---		
3700.40	Horizontal	-41.54	-13.00	Pass
5550.60	H	-44.92		
7400.80	H	-46.28		
9251.00	H	-48.65		
11101.20	H	---		
Test mode:	**PCS1900**		**Test channel:**	**Middle**
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760.00	Vertical	-34.64	-13.00	Pass
5640.00	V	-37.11		
7520.00	V	-39.15		
9400.00	V	-41.12		
11280.00	V	---		
3760.00	Horizontal	-39.39	-13.00	Pass
5640.00	H	-42.87		
7520.00	H	-44.29		
9400.00	H	-46.75		
11280.00	H	---		
Test mode:	**PCS1900**		**Test channel:**	**Highest**
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3819.60	Vertical	-35.84	-13.00	Pass
5729.40	V	-38.23		
7639.20	V	-40.21		
9549.00	V	-42.11		
11458.80	V	---		
3819.60	Horizontal	-40.43	-13.00	Pass
5729.40	H	-43.82		
7639.20	H	-45.18		
9549.00	H	-47.56		
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	-37.26	-13.00	Pass
2479.20	V	-41.01		
3305.60	V	-43.75		
4132.00	V	-41.28		
4958.40	V	---		
1652.80	Horizontal	-40.07	-13.00	Pass
2479.20	H	-42.77		
3305.60	H	-48.19		
4132.00	H	-51.82		
4958.40	H	---		
Test mode:	**WCDMA Band V**		**Test channel:**	**Middle**
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1672.80	Vertical	-39.31	-13.00	Pass
2509.20	V	-40.63		
3345.60	V	-44.25		
4182.00	V	-46.72		
5018.40	V	---		
1672.80	Horizontal	-41.78	-13.00	Pass
2509.20	H	-43.69		
3345.60	H	-48.38		
4182.00	H	-50.78		
5018.40	H	---		
Test mode:	**WCDMA Band V**		**Test channel:**	**Highest**
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1693.20	Vertical	-37.83	-13.00	Pass
2539.80	V	-40.27		
3386.40	V	-42.90		
4233.00	V	-45.80		
5079.60	V	---		
1693.20	Horizontal	-41.19	-13.00	Pass
2539.80	H	-43.61		
3386.40	H	-44.99		
4233.00	H	-51.18		
5079.60	H	---		

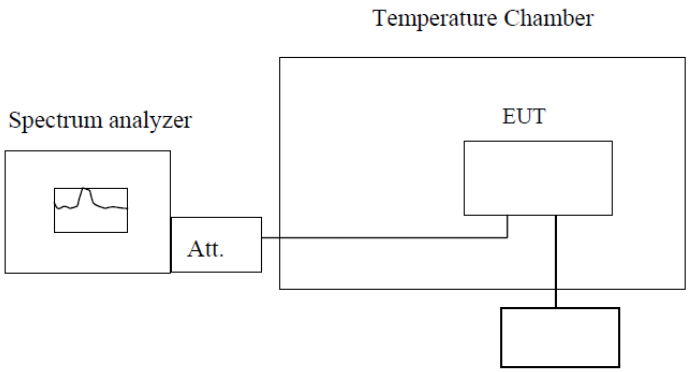
Remark：

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	-38.70	-13.00	Pass
5556.86	V	-41.78		
7409.26	V	-44.33		
9261.66	V	-46.79		
11114.40	V	---		
3704.46	Horizontal	-44.62	-13.00	Pass
5556.86	H	-48.98		
7409.26	H	-50.75		
9261.66	H	-53.82		
11114.40	H	---		
Test mode:	**WCDMA Band II**		**Test channel:**	**Middle**
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3759.83	Vertical	-39.47	-13.00	Pass
5639.83	V	-42.40		
7519.83	V	-44.81		
9399.83	V	-47.14		
11280.00	V	---		
3759.83	Horizontal	-45.09	-13.00	Pass
5639.83	H	-49.22		
7519.83	H	-50.89		
9399.83	H	-53.81		
11280.00	H	---		
Test mode:	**WCDMA Band II**		**Test channel:**	**Highest**
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3815.03	Vertical	-38.73	-13.00	Pass
5722.63	V	-41.46		
7630.23	V	-43.71		
9537.83	V	-45.89		
11445.60	V	---		
3815.03	Horizontal	-43.97	-13.00	Pass
5722.63	H	-47.83		
7630.23	H	-49.38		
9537.83	H	-52.09		
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.

7.10 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:	 **Note :** Measurement setup for testing on Antenna connector
Test procedure:	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 7.1 for details
Test results:	Pass

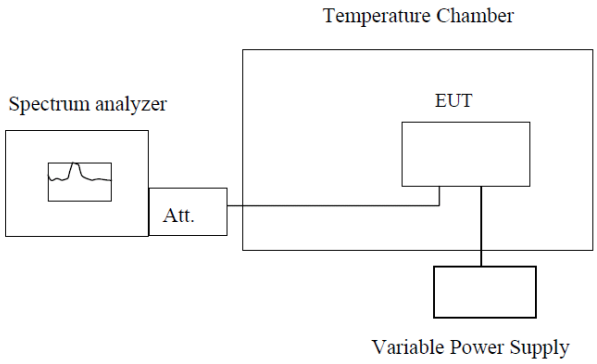
Measurement Data

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	36	0.0426	2.5	Pass
	-20	40	0.0473		
	-10	34	0.0411		
	0	29	0.0349		
	10	33	0.0396		
	20	29	0.0349		
	30	45	0.0534		
	40	41	0.0488		
	50	40	0.0473		
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	31	0.0369	2.5	Pass
	-20	33	0.0399		
	-10	30	0.0354		
	0	27	0.0324		
	10	28	0.0339		
	20	26	0.0309		
	30	40	0.0475		
	40	35	0.0414		
	50	33	0.0399		
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	41	0.0494	2.5	Pass
	-20	48	0.0578		
	-10	40	0.0477		
	0	34	0.0408		
	10	39	0.0463		
	20	33	0.0397		
	30	59	0.0703		
	40	51	0.0606		
	50	48	0.0571		

Reference Frequency: PCS1900 (GSM link) Middle channel=661 channel=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error			Result
		Hz	ppm		
3.70	-30	25	0.0131	2.5	Pass
	-20	31	0.0167		
	-10	25	0.0131		
	0	19	0.0101		
	10	25	0.0131		
	20	20	0.0107		
	30	39	0.0209		
	40	32	0.0173		
	50	30	0.0161		
Reference Frequency: PCS1900 (GPRS 1 link) Middle channel=661 channel=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error			Result
		Hz	ppm		
3.70	-30	33	0.0176	2.5	Pass
	-20	39	0.0209		
	-10	31	0.0163		
	0	24	0.0129		
	10	32	0.0169		
	20	24	0.0129		
	30	46	0.0242		
	40	37	0.0196		
	50	39	0.0209		
Reference Frequency: PCS1900 (EGPRS 1 link) Middle channel=661 channel=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error			Result
		Hz	ppm		
3.70	-30	74	0.0396	2.5	Pass
	-20	88	0.0470		
	-10	71	0.0379		
	0	58	0.0308		
	10	72	0.0384		
	20	60	0.0318		
	30	100	0.0530		
	40	83	0.0440		
	50	87	0.0463		

Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	31	0.0368	2.5	Pass
	-20	43	0.0510		
	-10	48	0.0575		
	0	23	0.0278		
	10	34	0.0407		
	20	37	0.0446		
	30	55	0.0652		
	40	51	0.0614		
	50	61	0.0730		
Reference Frequency: WCDMA Band II Middle channel=9400 channel=1880.0MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	99	0.0526	2.5	Pass
	-20	88	0.0467		
	-10	76	0.0402		
	0	71	0.0376		
	10	64	0.0343		
	20	56	0.0297		
	30	71	0.0376		
	40	79	0.0421		
	50	76	0.0402		

7.11 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:	 **Note :** Measurement setup for testing on Antenna connector
Test procedure:	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 7.1 for details
Test results:	Pass

Measurement Data

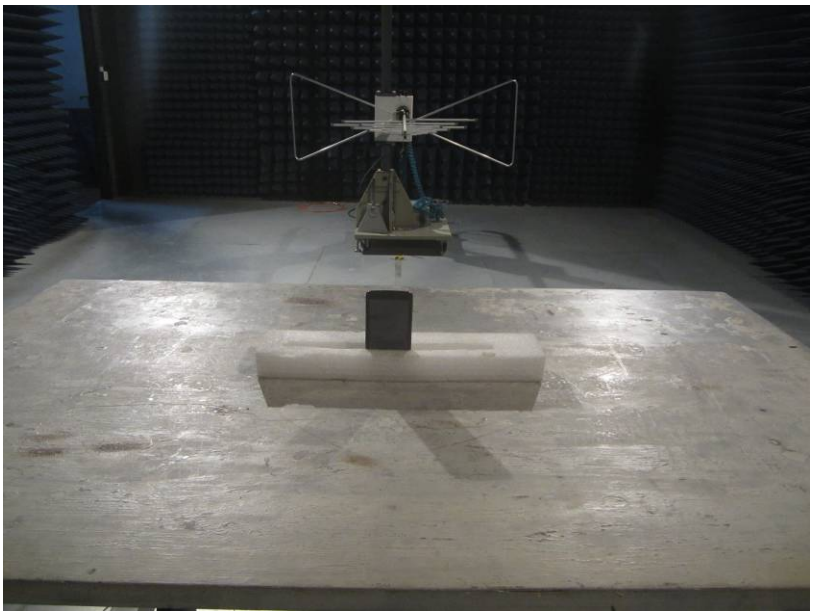
Reference Frequency: GSM850 (GSM link) Middle channel=190 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	20	0.0242	2.5	Pass
	3.7	23	0.0272		
	3.4	25	0.0302		
Reference Frequency: GSM850 (GPRS 1 link) Middle channel=190 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	29	0.0343	2.5	Pass
	3.7	33	0.0398		
	3.4	38	0.0451		
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	20	0.0243	2.5	Pass
	3.7	13	0.0154		
	3.4	15	0.0184		

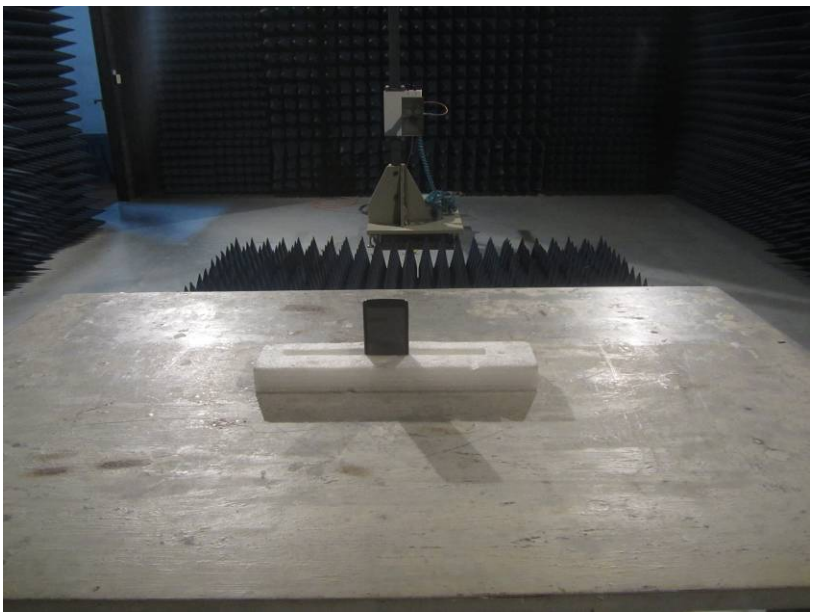
Reference Frequency: PCS1900 (GSM link) Middle channel=661 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	12	0.0061	2.5	Pass
	3.7	17	0.0093		
	3.4	17	0.0093		
Reference Frequency: PCS1900 (GPRS 1 link) Middle channel=661 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	75	0.0397	2.5	Pass
	3.7	85	0.0451		
	3.4	85	0.0453		
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	46	0.0243	2.5	Pass
	3.7	36	0.0192		
	3.4	38	0.0202		

Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	24	0.0287	2.5	Pass
	3.7	32	0.0377		
	3.4	17	0.0198		
Reference Frequency: WCDMA Band II Middle channel=940 channel=1880.0MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	50	0.0268	2.5	Pass
	3.7	41	0.0218		
	3.4	46	0.0247		

8 Test Setup Photo

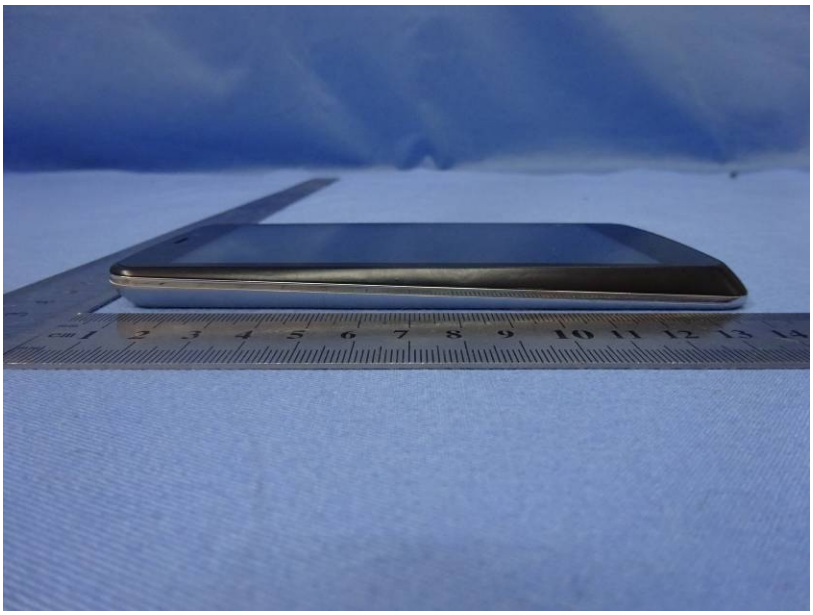
Radiated Emission

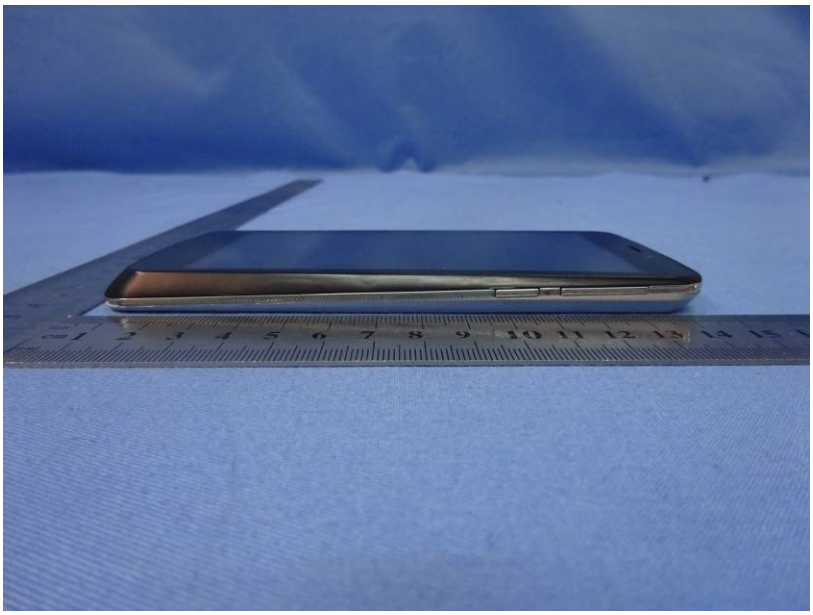


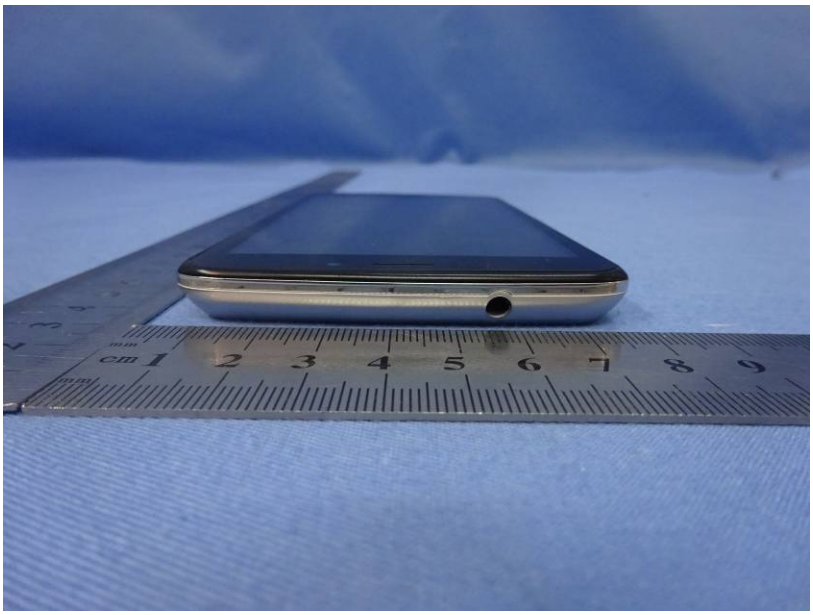


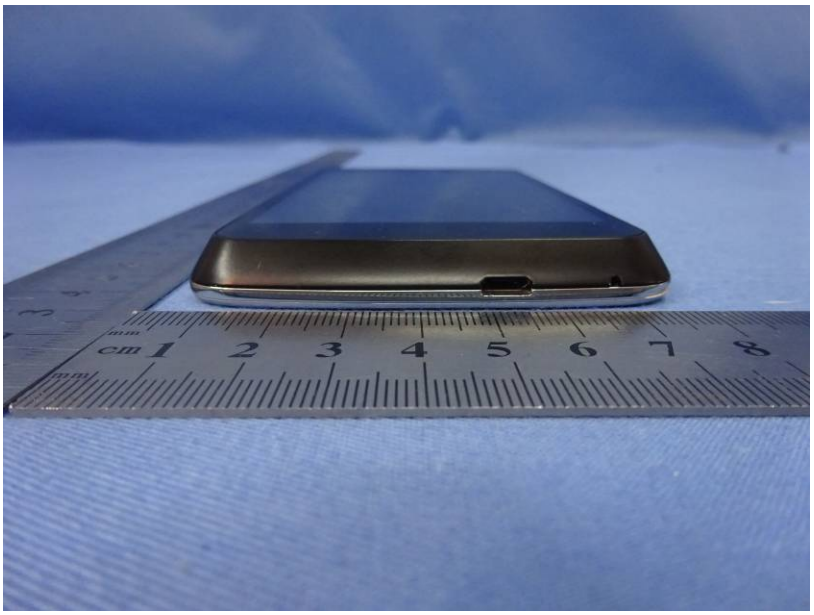
9 EUT Constructional Details

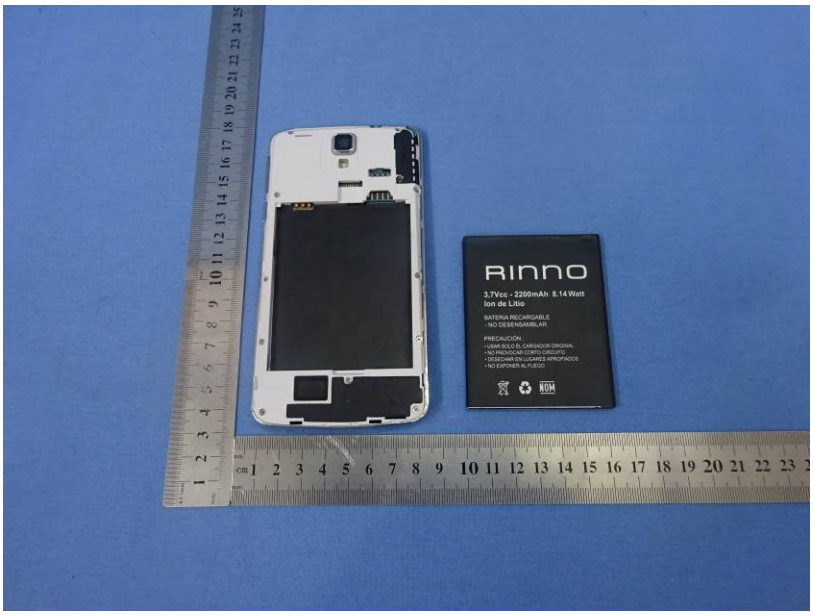

RINNO
telcel

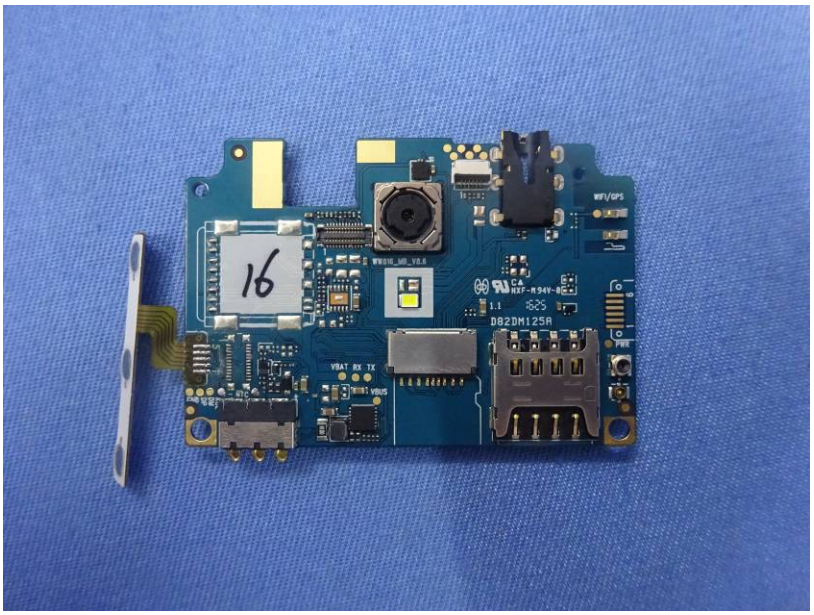


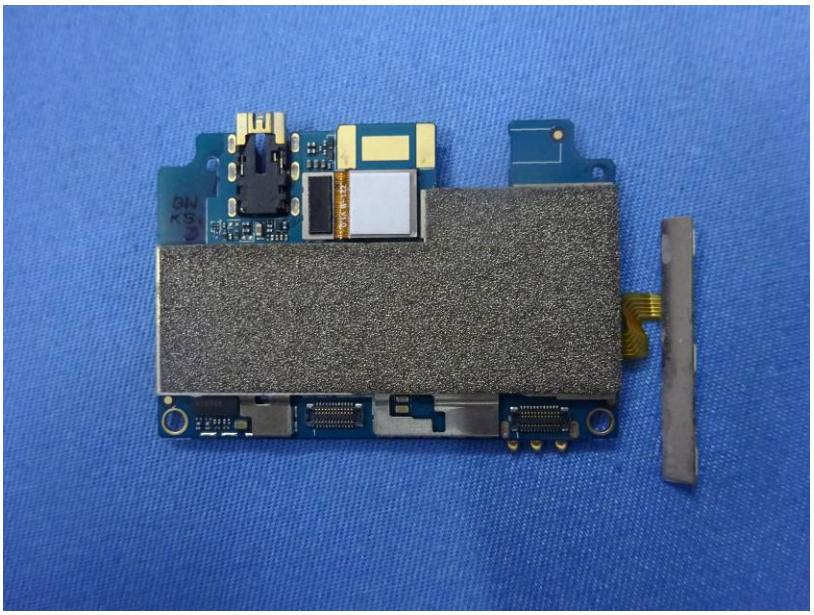


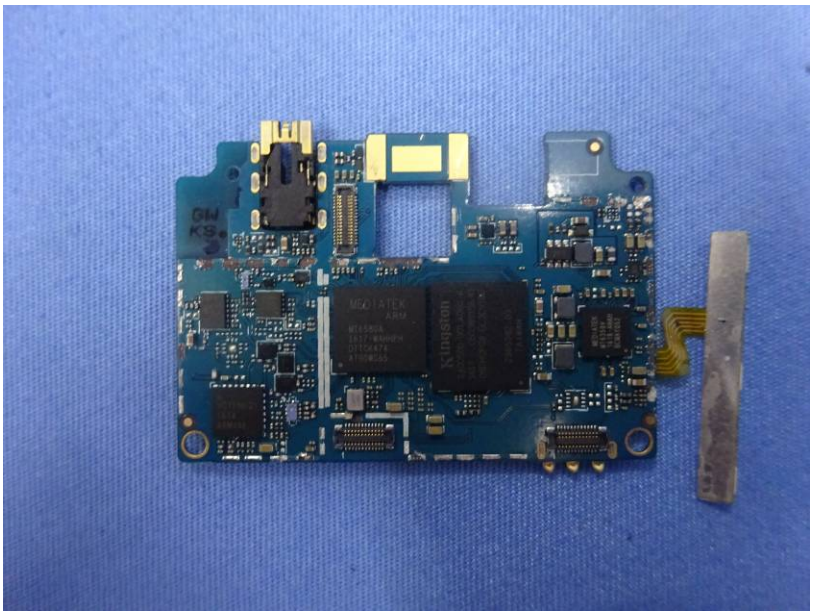


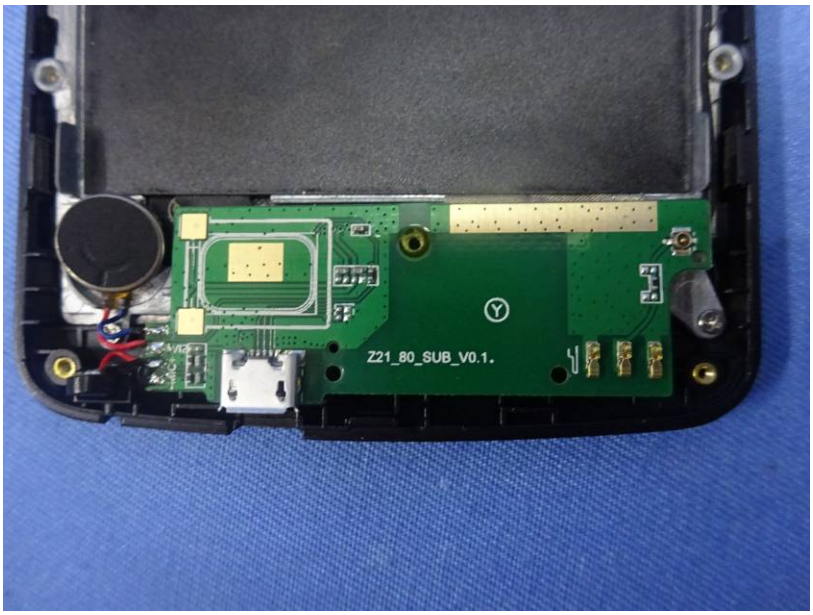



RINNO
3,7Vcc - 2200mAh 8.14Watt
Ion de Litio
BATERIA RECARGABLE
- NO DESENSAMBLAR
PRECAUCIÓN :


16
D82DM125A



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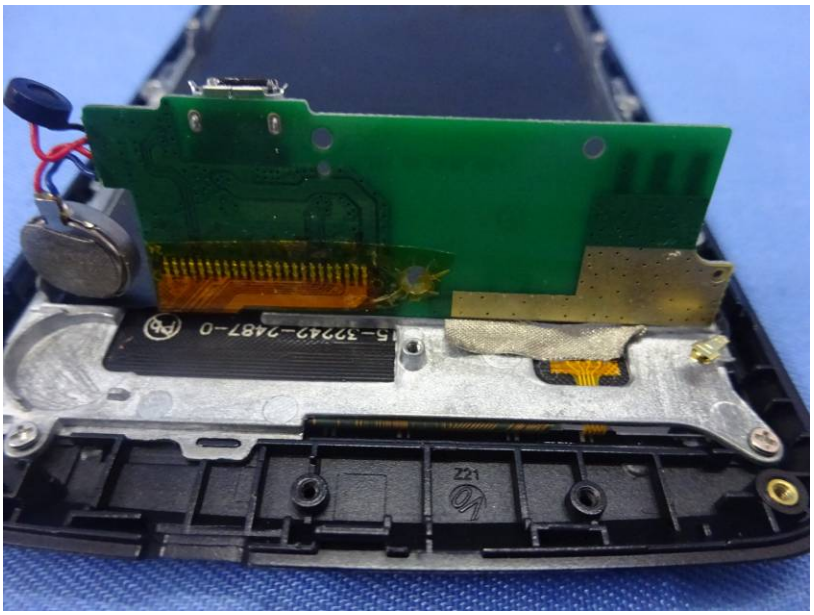


RINNO
3,7Vcc - 2200mAh 8.14 Watt
Ion de Litio
BATERIA RECARGABLE
- NO DESENSAMBLAR
PRECAUCIÓN :
• USAR SOLO EL CARGADOR ORIGINAL
• NO PROVOCAR CORTO CIRCUITO
• DESECHAR EN LUGARES APROPIADOS
• NO EXPONER AL FUEGO
NOM


RINNO
Modelo R505-A
Adaptador ca/cc
50/60Hz 150mA
Entrada:100-240Vca
Salida: 5Vcc 1A
0.7 Wh Carga
5 Wh Sin Carga
HECHO EN CHINA


GSM/WCDMA ANT

-----End------