

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H and PART 24 SUBPART E AND INDUSTRY CANADA RSS-132 and RSS-133 REQUIREMENT

OF

Product Name: POS terminal
Brand Name: ingenico
Model Name: iPA280
Model Difference: N/A
FCC ID: XKBIPA280
IC Number: 2586D-IPA280
Report No.: EH/2009/30021
Issue Date: Dec. 04, 2009
FCC Rule Part: 2 , 22H & 24E
IC Rule Part: RSS 132, Issue 2 and RSS 133, Issue 4
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VERIFICATION OF COMPLIANCE

Applicant: INGENICO
1 rue Claude Chappe BP346 Guilhaerand-Granges France

Product Name: POS terminal

FCC ID: XKBIPA280

IC Number: 2586D-IPA280

Brand Name: ingenico

Model No.: iPA280

Model Difference: N/A

File Number: EH/2009/30021

Date of test: Nov. 25, 2009 ~ Dec. 03, 2009

Date of EUT Received: Mar. 27, 2009

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004, Issue 2 of RSS-Gen and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule PART 22 subpart H, PART 24 subpart E and IC standards Issue 2 of RSS-129, Issue 4 of RSS-133.

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

Test By:		Date	Dec. 04, 2009
	_____ <i>Jazz Huang / Engineer</i>		_____
Prepared By:		Date	Dec. 04, 2009
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Version

Version No.	Date	Description
00	Dec. 04, 2009	Initial creation of document

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1. GENERAL INFORMATION

General:

Product Name:	POS terminal	
Brand Name:	ingenico	
Model Name:	iPA280	
Model Difference:	N/A	
Power Supply	3.6 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery:	Model: IPA200-BAT, Supplier: ingenico
	Adapter:	Model: T010WM0512

GSM / DCS:

	Operation Band	Frequency Range	Rated Power
Cellular Phone Standards Frequency Range and Power	GSM/ GPRS/ EDGE 850 Class 10	824.2 MHz– 848.8 MHz	33 dBm
	GSM/ GPRS/EDGE 900 Class 10	880.2MHz – 914.8MHz	33 dBm
	GSM/ GPRS/EDGE 1800 Class 10	1710.2MHz – 1784.8MHz	30 dBm
	GSM/ GPRS/EDGE 1900 Class 10	1850.2MHz – 1909.8MHz	30 dBm
Type of Emission	300KGXW		
Hardware Version	PVT		
Software Version	0.34.00.Q		
IMEI	354060011335375		

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WLAN:

Frequency Range:	2412 – 2472 MHz
Channel number:	11 channels
Max. Output Power:	802.11 b: 16.61 dBm (Peak) 802.11 g: 16.54 dBm (Peak)
Modulation Technology:	DSSS, OFDM
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps
Antenna Designation:	PIFA Antenna /-0.51dBi.

The EUT is compliance with IEEE 802.11 b/g Standard.

Bluetooth:

Bluetooth Version	<input type="checkbox"/> V1.1 (GFSK) <input type="checkbox"/> V1.2 (GFSK) <input type="checkbox"/> V2.0 (GFSK) <input type="checkbox"/> V2.0 + EDR (GFSK + /4DQPSK + 8DPSK) <input checked="" type="checkbox"/> V2.1 + EDR (GFSK + /4DQPSK + 8DPSK)
Frequency Range	2402 – 2480MHz
Channel number	79 channels max.
Rated Power	1.93 dBm (Peak)
Modulation type	Frequency Hopping Spread Spectrum
Antenna Designation	PIFA Antenna / -0.42dBi.

The EUT is compliance with Bluetooth 2.1 Standard.

RFID:

Operating Frequency	13.56MHz
Transmit Power	< 123dBuV/m at 3m.
Number of Channels	1
Operating Mode	Point-to-Point
Antenna Type	Print antenna
Module Type	ASK

The EUT is compliance with RFID Standard.

GPS:

Receiver Frequency	L1 Band, 1575.42MHz
Frequency Conversion oscillator	26MHz
Antenna Designation	Patch

This test report applies for GSM/GPRS/EDGE 850/1900 MHz.

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: XKBIPA280** filing to comply with Section Part 22 subpart H, Part 24 subpart E of the FCC CFR 47 Rules.

And **IC: 2586D-IPA280** filing to comply with issue 2 of RSS-129, issue 4 of RSS-133.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4 (2003) and FCC 47 CFR 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, issue 2 of RSS-132 and issue 3 of RSS-133.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

All equipment is calibrated externally and traceable to SI (International System of Unit).

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 AC Power Line Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C and RSS-Gen, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.3 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C and RSS-Gen. The EUT is placed on a turn table which is 1.0 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements.

A standard antenna was used to replace the EUT and connect to the SG. Adjust the SG output level to reach the max emission level which were measured above.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel)

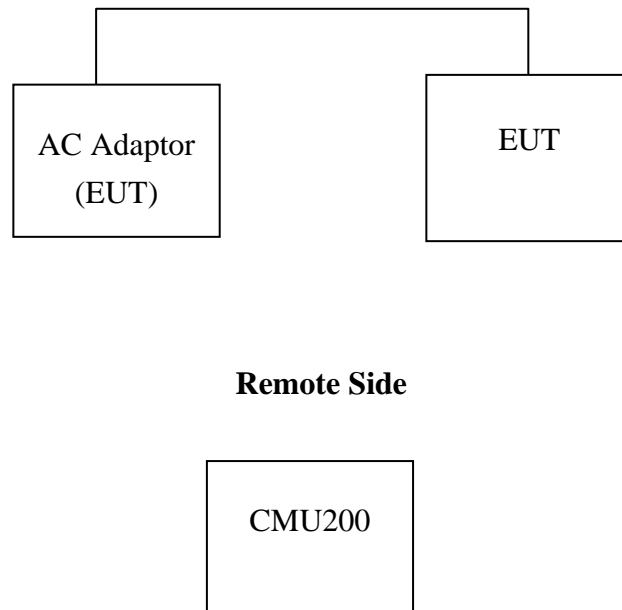


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1	Universal Radio Communication Tester	R&S	CMU200	102189	N/A	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a) §22.913(a)(2) §24.232(c)	N/A	RF Conducted Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c)	§4.8 (RSS-Gen) §4.4 (RSS-132) §6.4 (RSS-133)	ERP/EIRP measurement	Compliant
§2.1049(h)	§4.6.1 (RSS-Gen) §2.3 (RSS-133)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a)	§4.9 (RSS-Gen) §4.5 (RSS-132) §6.5 (RSS-133)	Out of Band Emissions at Antenna Terminals	Compliant
§2.1053 §22.917(a) §24.238(a)	§4.9 (RSS-Gen) §4.5 (RSS-132) §6.5 (RSS-133)	Field Strength of Spurious Radiation (TX)	Compliant
§2.1055(a)(1) §22.355 §24.235	§4.7 (RSS-Gen) §4.3 (RSS-132) §6.3 (RSS-133)	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(2) §22.355 §24.235	§4.7 (RSS-Gen) §4.3 (RSS-132) §6.3 (RSS-133)	Frequency Stability vs. Voltage	Compliant
N/A	§4.10 (RSS-Gen) §4.6 (RSS-132) §6.6 (RSS-133)	Receiver Spurious Emissions	Compliant
§15.207(a)	§7.2.2 (RSS-Gen)	AC Power Line Conducted Emission	Compliant

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for GSM with power adaptor. The worst-case of E2 position for GSM 850 band, E1 position for PCS 1900 band were reported.

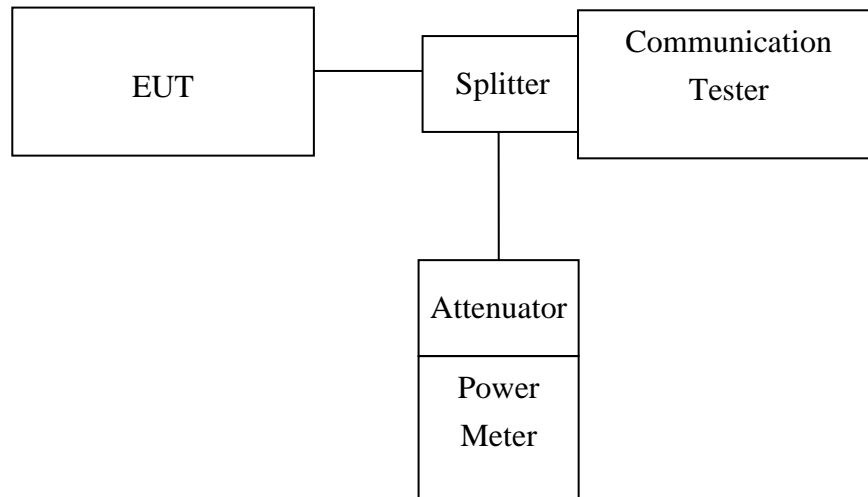
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5. RF POWER OUTPUT MEASUREMENT

5.1 Standard Applicable

According to FCC §2.1046(a), §22.913(a)(2) and §24.232(c).

5.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

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5.3 Measurement Procedure

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

5.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2008	01/22/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2010
DC Block	Agilent	BLK-18	155452	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2009	07/04/2010
Splitter	Agilent	11636B	N/A	07/05/2009	07/04/2010

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5.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Avg. Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Avg. Power (1DN 2UP) (dBm)
GPRS 850 (Class 10)	824.2	128	32.80	32.70	32.70	32.60
	836.6	190	32.90	32.80	32.80	32.70
	848.8	251	32.90	32.80	32.80	32.70

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Avg. Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Avg. Power (1DN 2UP) (dBm)
GPRS 1900 (Class 10)	1850.2	512	28.90	28.80	28.90	28.70
	1880.0	661	28.60	28.50	28.60	28.50
	1909.8	810	28.40	28.30	28.40	28.30

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Avg. Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Avg. Power (1DN 2UP) (dBm)
EDGE 850 (Class 10)	824.2	128	29.30	26.00	29.20	26.00
	836.6	190	29.10	25.90	29.00	25.90
	848.8	251	29.00	25.70	29.00	25.70

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Avg. Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Avg. Power (1DN 2UP) (dBm)
EDGE 1900 (Class 10)	1850.2	512	28.80	25.50	28.90	25.50
	1880.0	661	28.70	25.40	28.80	25.40
	1909.8	810	28.50	25.40	28.50	25.40

Note: offset:0.5dB

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Minimum Communications Power Measurement: PCS1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	28.7	27.2	25.3	23.4	21.4	19.4	17.4	15.4	13.4
PCL	9	10	11	12	13	14	15	16	17
Output power (dBm)	11.4	9.3	7.2	5.2	3.1	1	-1.1		

Minimum Communications Power Measurement: EDGE1900 band

PCL	0	1	2	3	4	5	6	7	8	
Output power (dBm)	25.5	25.5	25.5	25.5	25.5	25.5	24.5	22.3	20.5	
PCL	9	10	11	12	13	14	15	16	17	18
Output power (dBm)	18.4	16.5	14.4	12.5	10.4	8.4	6.4	4.4	2.4	0.5

Note: The EUT output power was controlled by simulator. Set Communication Tester CMU200 PCL as above, and get the mobile phone output power reading.

6. ERP, EIRP MEASUREMENT

6.1 Standard Applicable

According to FCC §2.1046(a)

FCC 22.913(a) Mobile station are limited to 7W ERP.

FCC 24.232(c) Mobile station are limited to 2W EIRP.

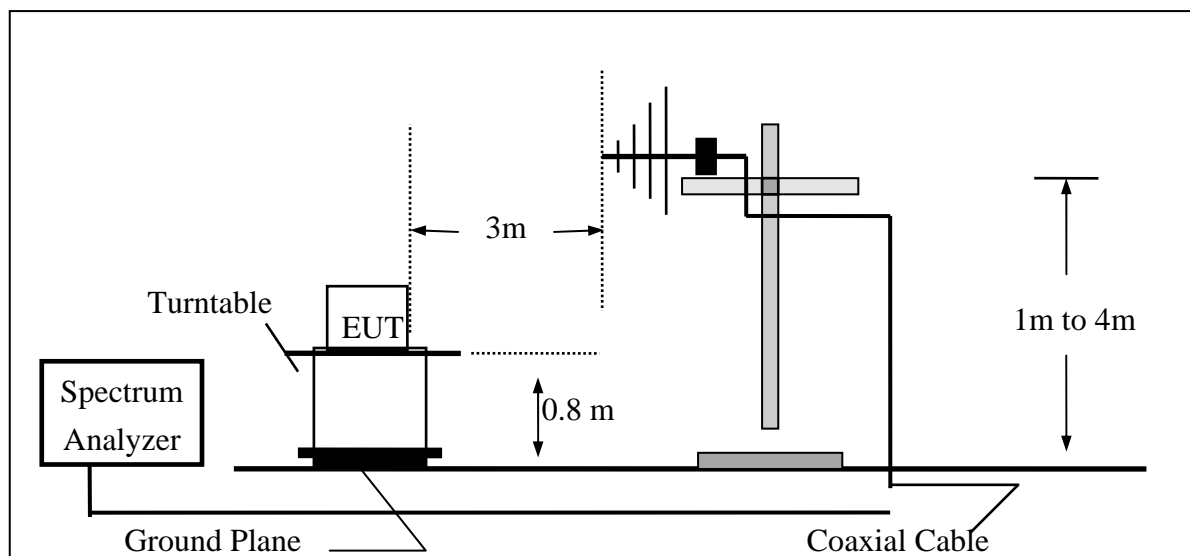
According to IC RSS-133 §6.4

The peak e.i.r.p. for transmitters operating in the band 1850-1910 MHz shall not exceed the limits 2W which given in SRSP-510.

According to issue 2 of RSS 132, section 4.4. The transmitter output power shall not exceed the limits given in SRSP-503.

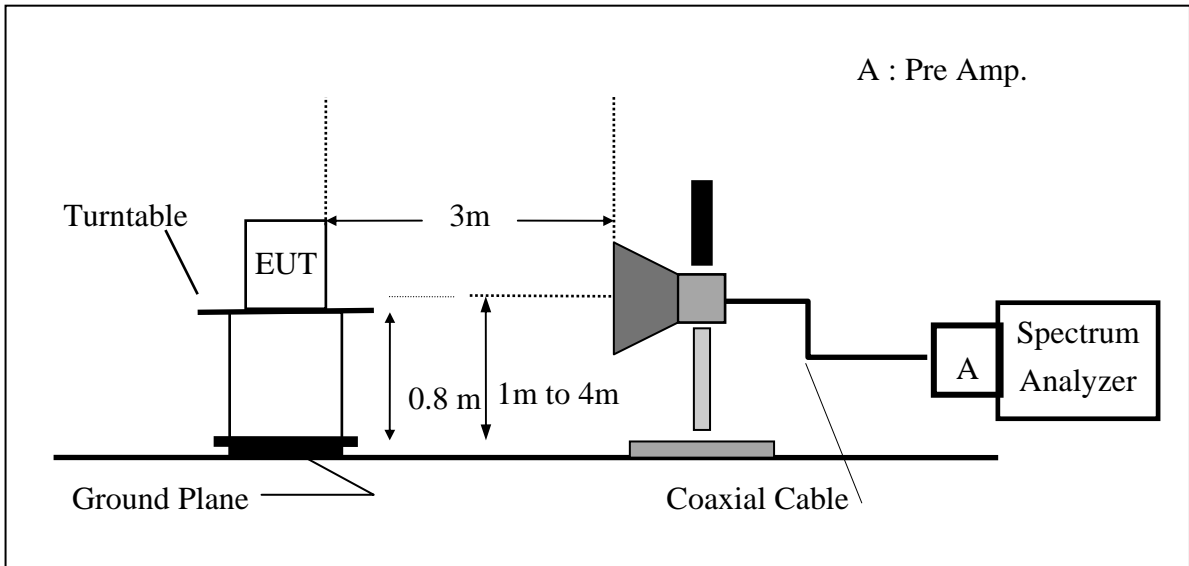
6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz

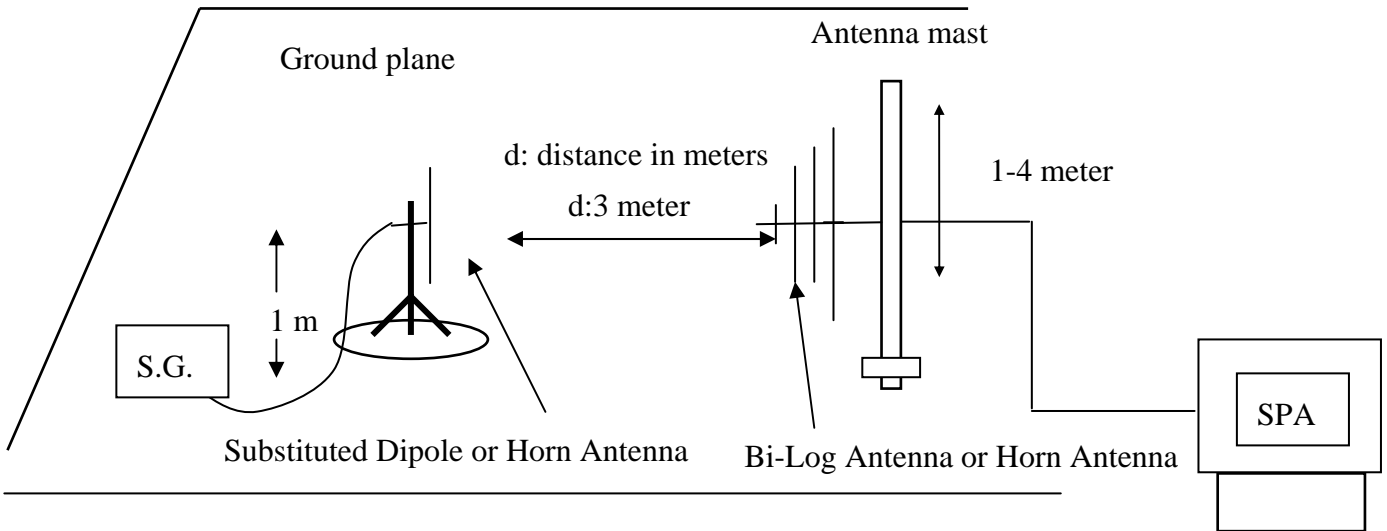


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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3 Measurement Procedure

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

During the measurement, the EUT was in 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.

ERP in frequency band 824.2 –848.80MHz were measured using a substitution method. The EUT was replaced by a dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

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

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

6.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2009	02/11/2010
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2009	11/14/2010
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/10/2008	07/09/2010
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/10/2008	07/09/2010
Hor.n antenna	SCHWAZBECK	BBHA 9120D	309	01/22/2008	01/21/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010
Signal Generator	R&S	SMR40	100210	01/22/2008	01/21/2010
Signal Generator	Agilent	E4438C	MY45093613	05/22/2009	05/21/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2009	11/29/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2009	07/04/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2010
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2009	01/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2009	01/04/2010
3m Site	SGS	966 chamber	N/A	11/08/2009	11/09/2010

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6.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GSM 850	824.20	128	H	V	123.15	36.76	-7.87	3.62	25.26	38.45
				H	129.53	43.26	-7.87	3.62	31.76	38.45
			E1	V	126.96	40.57	-7.87	3.62	29.07	38.45
				H	122.52	36.25	-7.87	3.62	24.75	38.45
			E2	V	119.73	33.34	-7.87	3.62	21.84	38.45
				H	130.71	44.44	-7.87	3.62	32.94	38.45
	836.60	190	H	V	122.35	36.10	-7.88	3.65	24.57	38.45
				H	129.03	42.80	-7.88	3.65	31.27	38.45
			E1	V	126.44	40.19	-7.88	3.65	28.66	38.45
				H	122.65	36.42	-7.88	3.65	24.89	38.45
			E2	V	119.68	33.43	-7.88	3.65	21.90	38.45
				H	130.33	44.10	-7.88	3.65	32.57	38.45
	848.80	251	H	V	120.67	34.55	-7.88	3.68	22.99	38.45
				H	127.18	40.99	-7.88	3.68	29.43	38.45
			E1	V	125.39	39.27	-7.88	3.68	27.71	38.45
				H	121.88	35.69	-7.88	3.68	24.13	38.45
			E2	V	129.47	43.35	-7.88	3.68	31.79	38.45
				H	119.01	32.82	-7.88	3.68	21.26	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency
RBW=300 KHz, VBW=1MHz,

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
PCS 1900	1850.20	512	H	V	120.88	16.49	9.90	5.56	20.83	33.00
				H	125.34	21.16	9.90	5.56	25.50	33.00
			E1	V	125.91	21.52	9.90	5.56	25.86	33.00
				H	127.01	22.83	9.90	5.56	27.17	33.00
			E2	V	126.45	22.06	9.90	5.56	26.40	33.00
				H	126.25	22.07	9.90	5.84	26.13	33.00
	1880.00	661	H	V	119.71	15.35	9.99	5.61	19.73	33.00
				H	124.99	20.85	9.99	5.61	25.22	33.00
			E1	V	125.66	21.30	9.99	5.61	25.68	33.00
				H	129.07	24.93	9.99	5.61	29.30	33.00
			E2	V	125.34	20.98	9.99	5.61	25.36	33.00
				H	126.02	21.88	9.99	5.61	26.25	33.00
	1909.80	810	H	V	117.04	12.71	10.08	5.66	17.13	33.00
				H	123.29	19.18	10.08	5.66	23.60	33.00
			E1	V	125.01	20.68	10.08	5.66	25.10	33.00
				H	126.58	22.47	10.08	5.66	26.89	33.00
			E2	V	126.87	22.54	10.08	5.66	26.96	33.00
				H	126.73	22.62	10.08	5.66	27.04	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
RBW=300 KHz, VBW=1MHz,

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
EDGE 850	824.20	128	H	V	119.35	32.96	-7.87	3.62	21.46	38.45
				H	125.15	38.88	-7.87	3.62	27.38	38.45
			E1	V	123.00	36.61	-7.87	3.62	25.11	38.45
				H	116.32	30.05	-7.87	3.62	18.55	38.45
			E2	V	114.47	28.08	-7.87	3.62	16.58	38.45
				H	126.60	40.33	-7.87	3.62	28.83	38.45
	836.60	190	H	V	119.51	33.26	-7.88	3.65	21.73	38.45
				H	125.62	39.39	-7.88	3.65	27.86	38.45
			E1	V	123.06	36.81	-7.88	3.65	25.28	38.45
				H	117.42	31.19	-7.88	3.65	19.66	38.45
			E2	V	114.94	28.69	-7.88	3.65	17.16	38.45
				H	127.11	40.88	-7.88	3.65	29.35	38.45
	848.80	251	H	V	119.83	33.71	-7.88	3.68	22.15	38.45
				H	125.85	39.66	-7.88	3.68	28.10	38.45
			E1	V	122.73	36.61	-7.88	3.68	25.05	38.45
				H	118.45	32.26	-7.88	3.68	20.70	38.45
			E2	V	116.58	30.46	-7.88	3.68	18.90	38.45
				H	127.30	41.11	-7.88	3.68	29.55	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency
RBW=300 KHz, VBW=1MHz,

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
EDGE 1900	1850.20	512	H	V	120.88	16.49	9.90	5.56	20.83	33.00
				H	126.85	22.67	9.90	5.56	27.01	33.00
			E1	V	126.27	21.88	9.90	5.56	26.22	33.00
				H	127.68	23.50	9.90	5.56	27.84	33.00
			E2	V	126.49	22.10	9.90	5.56	26.44	33.00
				H	127.39	23.21	9.90	5.84	27.27	33.00
	1880.00	661	H	V	118.28	13.92	9.99	5.61	18.30	33.00
				H	124.66	20.52	9.99	5.61	24.89	33.00
			E1	V	124.31	19.95	9.99	5.61	24.33	33.00
				H	126.01	21.87	9.99	5.61	26.24	33.00
			E2	V	124.91	20.55	9.99	5.61	24.93	33.00
				H	126.79	22.65	9.99	5.61	27.02	33.00
	1909.80	810	H	V	116.18	11.85	10.08	5.66	16.27	33.00
				H	122.38	18.27	10.08	5.66	22.69	33.00
			E1	V	122.65	18.32	10.08	5.66	22.74	33.00
				H	124.84	20.73	10.08	5.66	25.15	33.00
			E2	V	123.64	19.31	10.08	5.66	23.73	33.00
				H	125.63	21.52	10.08	5.66	25.94	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
RBW=300 KHz, VBW=1MHz,

7. 99% OCCUPIED BANDWIDTH MEASUREMENT

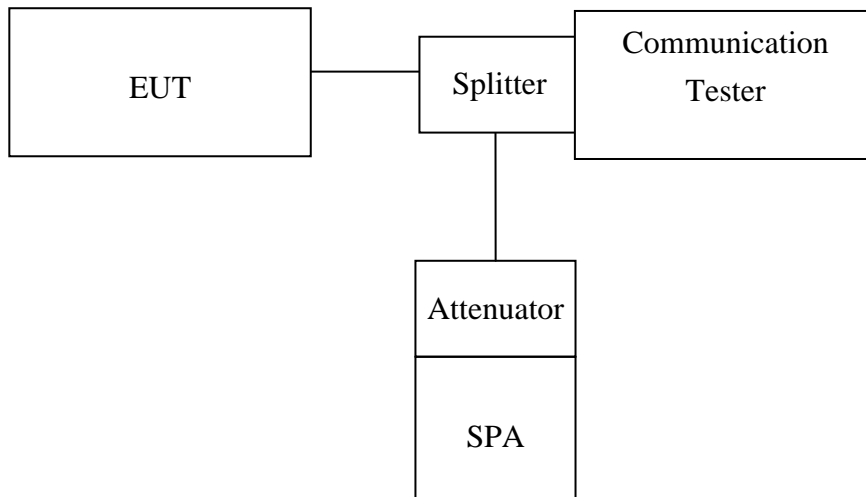
7.1 Standard Applicable

According to FCC§2.1049(h).

According to IC RSS-Gen §4.6.1

According to IC RSS-133 §2.3

7.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

7.3 Measurement Procedure

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW (10KHz) was set to about 1% of emission BW, VBW= 30KHz, -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.

7.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2008	01/22/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
DC Block	Agilent	BLK-18	155452	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2009	07/04/2010
Splitter	Agilent	11636B	N/A	07/05/2009	07/04/2010
DC Power Supply	HP	6038A	2929A-07548	06/27/2009	06/26/2011
DC Power Supply	Topward	3303D	981327	10/26/2009	10/25/2011

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7.5 Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.2407
	836.60	190	0.2407
	848.80	251	0.2340

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 1900	1850.20	512	0.2402
	1880.00	661	0.2333
	1909.80	810	0.2375

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.2427
	836.60	190	0.2365
	848.80	251	0.2401

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.2394
	1880.00	661	0.2364
	1909.80	810	0.2432

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Figure 7-1: GSM 850 Channel Low

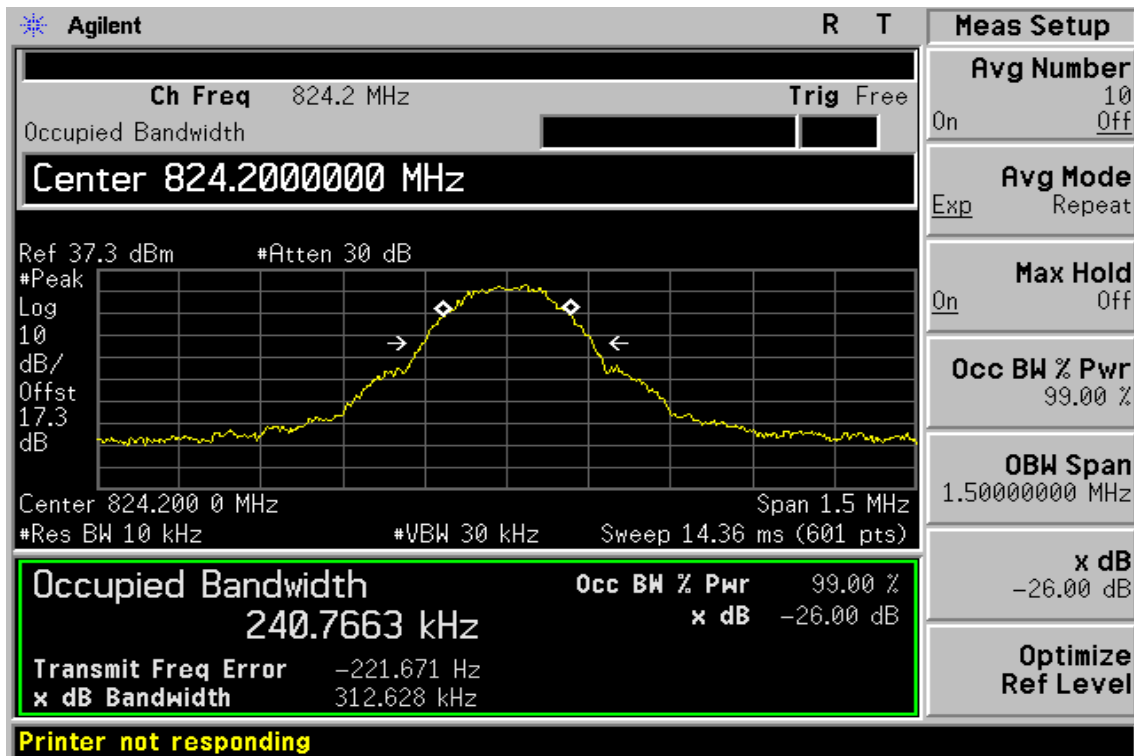
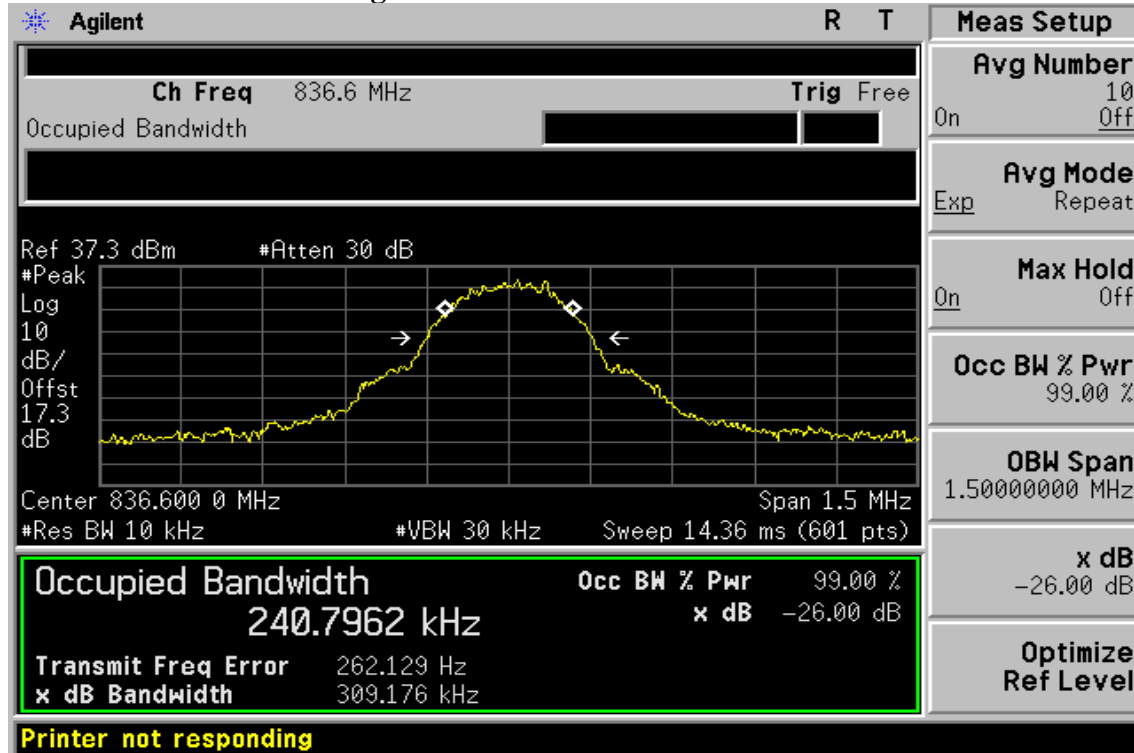


Figure 7-2 GSM 850 Channel Mid



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Figure 7-3: GSM 850 Channel High

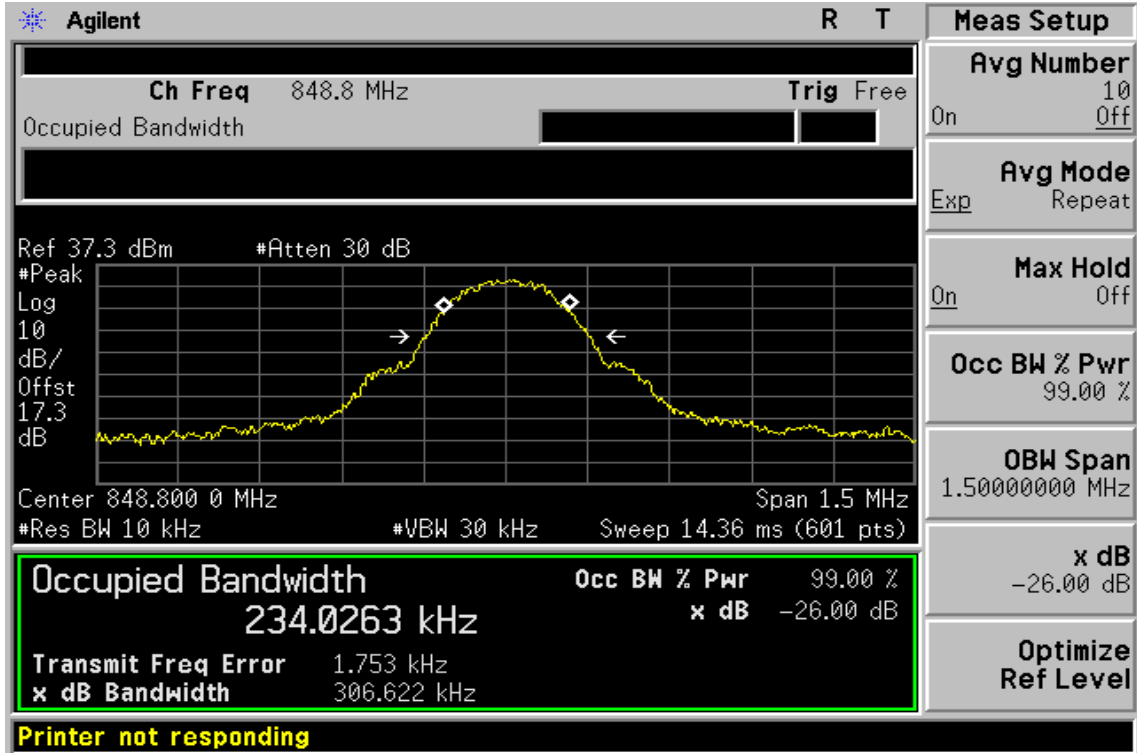
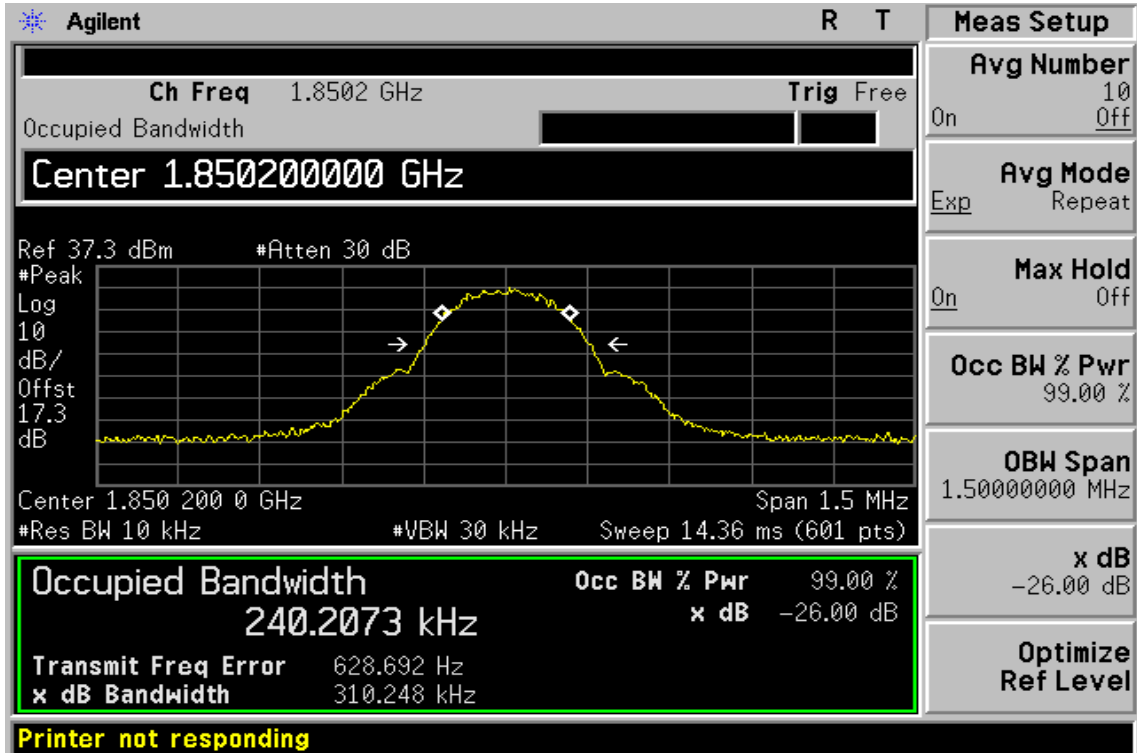


Figure 7-4: PCS 1900 Channel Low



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Figure 7-5 PCS 1900 Channel Mid

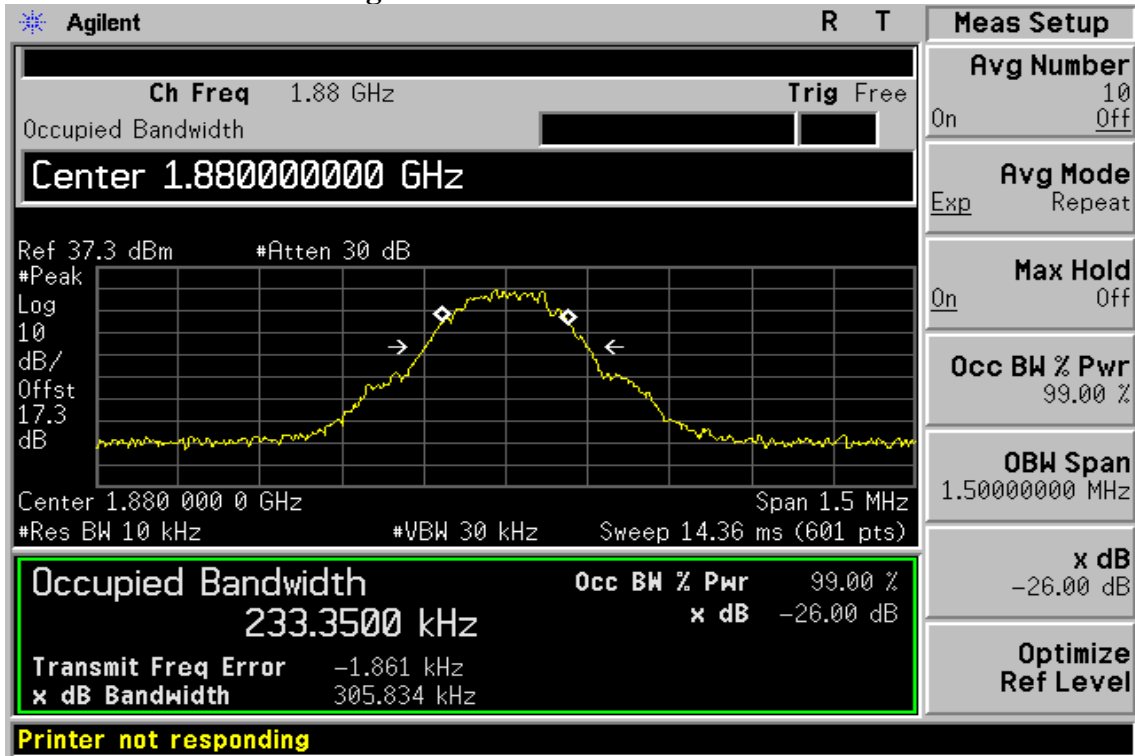
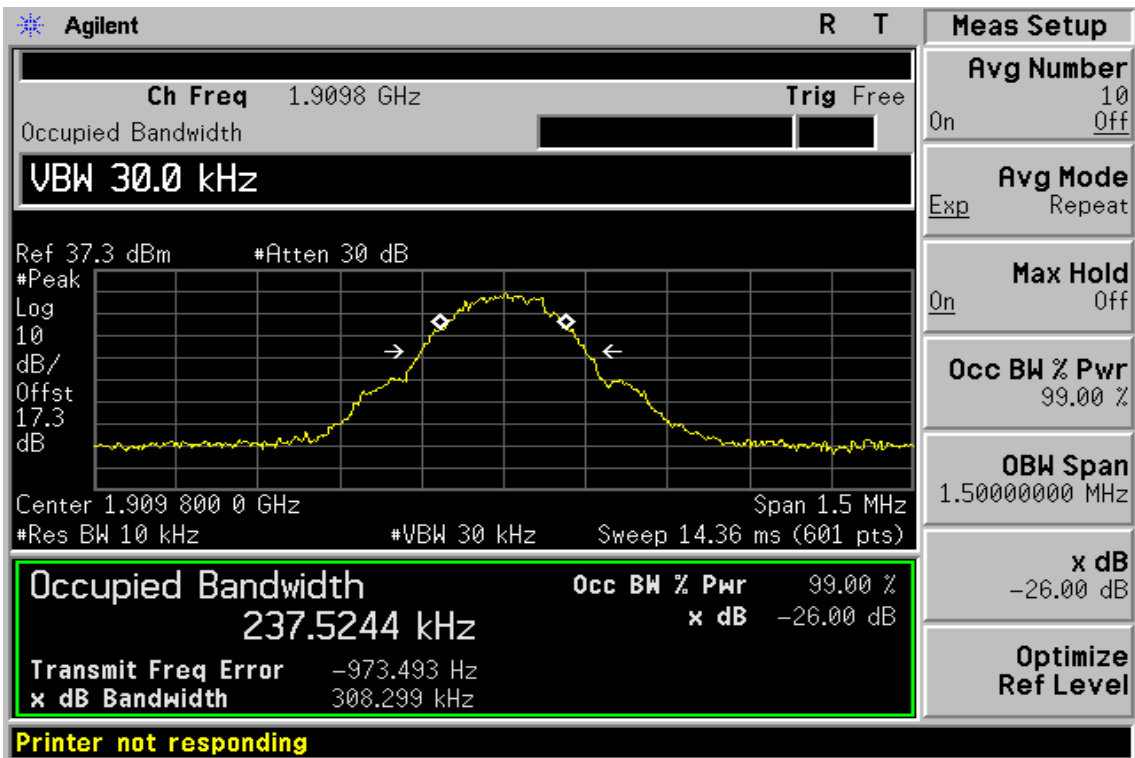


Figure 7-6: PCS 1900 Channel High



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Figure 7-1: EDGE 850 Channel Low

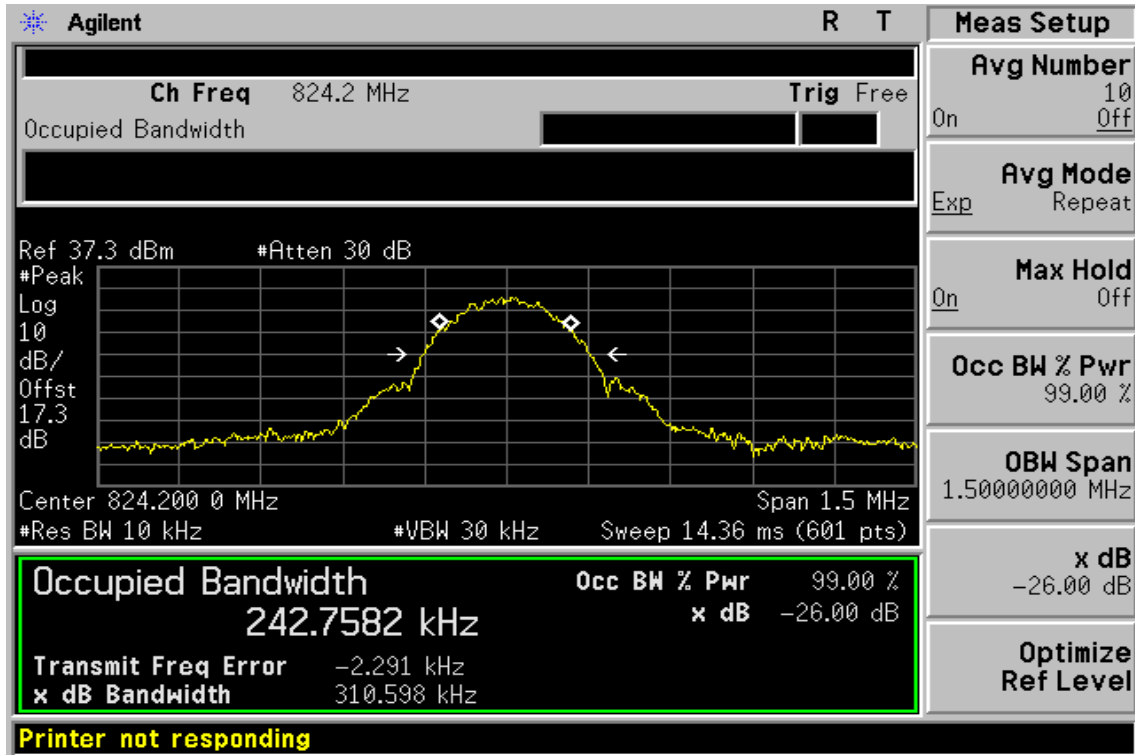
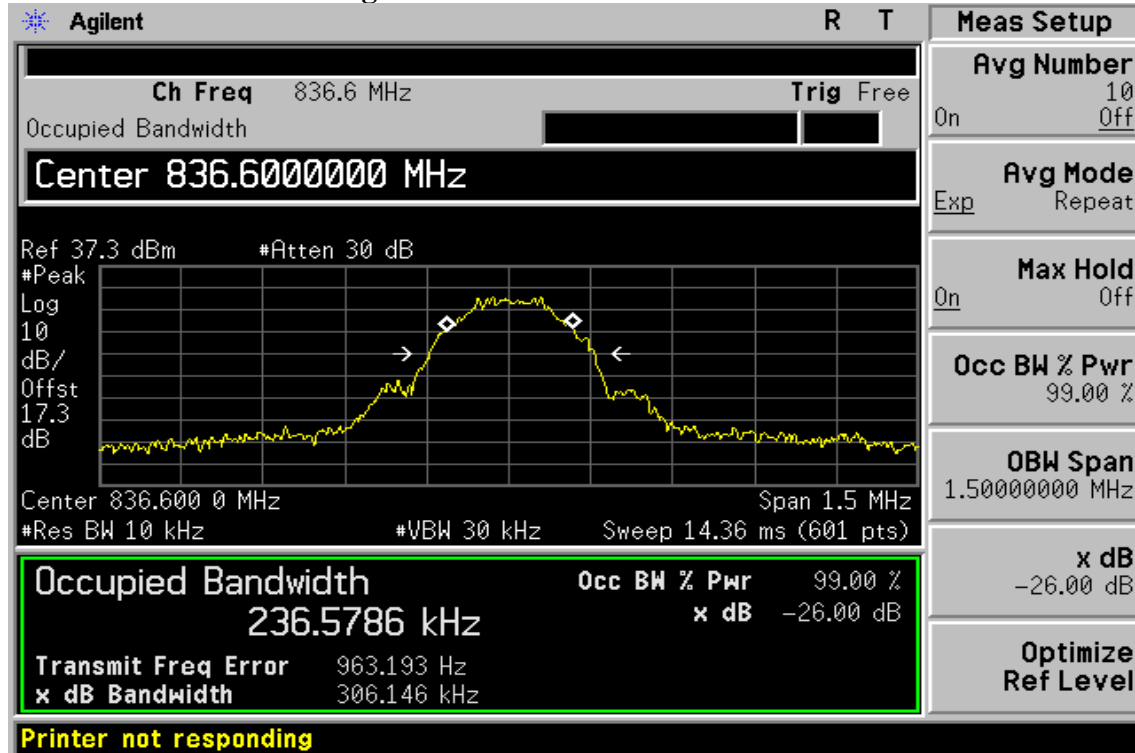


Figure 7-2 EDGE 850 Channel Mid



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Figure 7-3: EDGE 850 Channel High

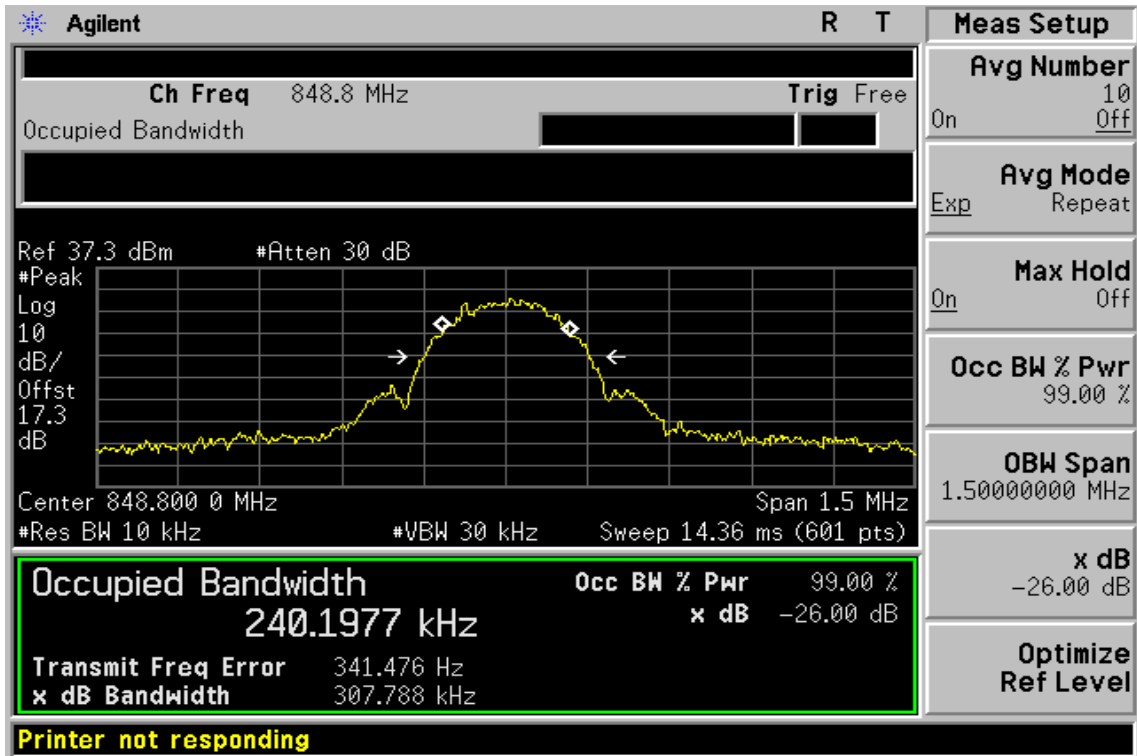
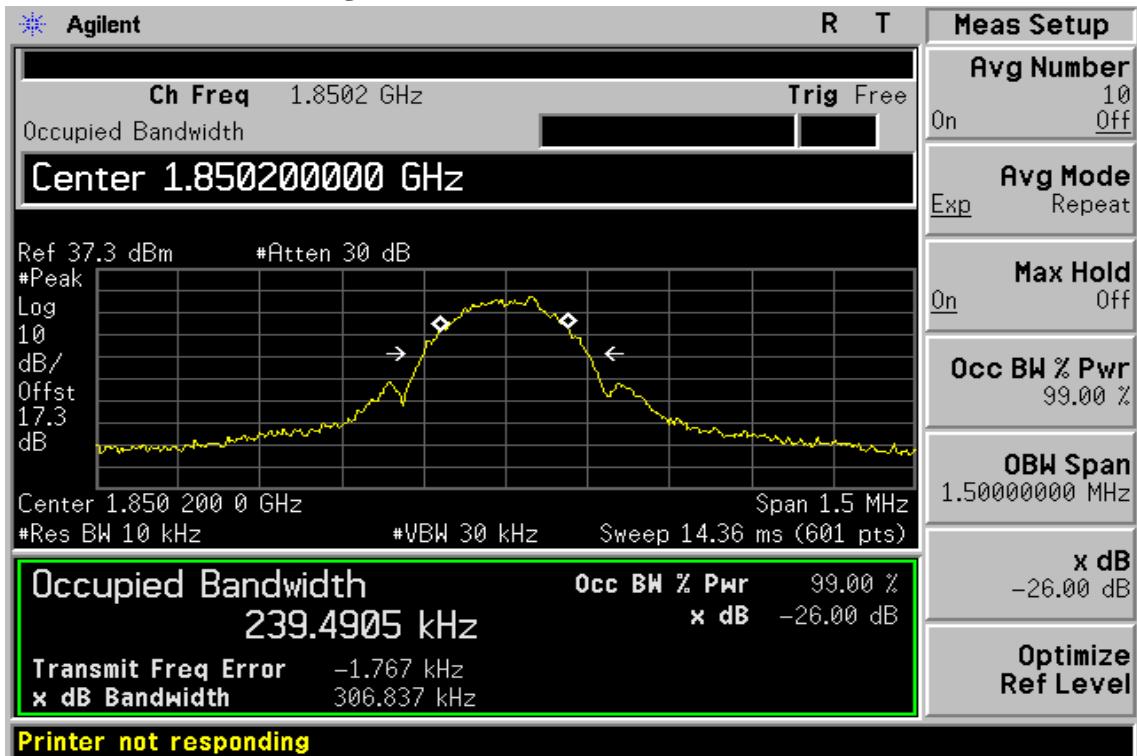


Figure 7-4: EDGE 1900 Channel Low



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Figure 7-5 EDGE 1900 Channel Mid

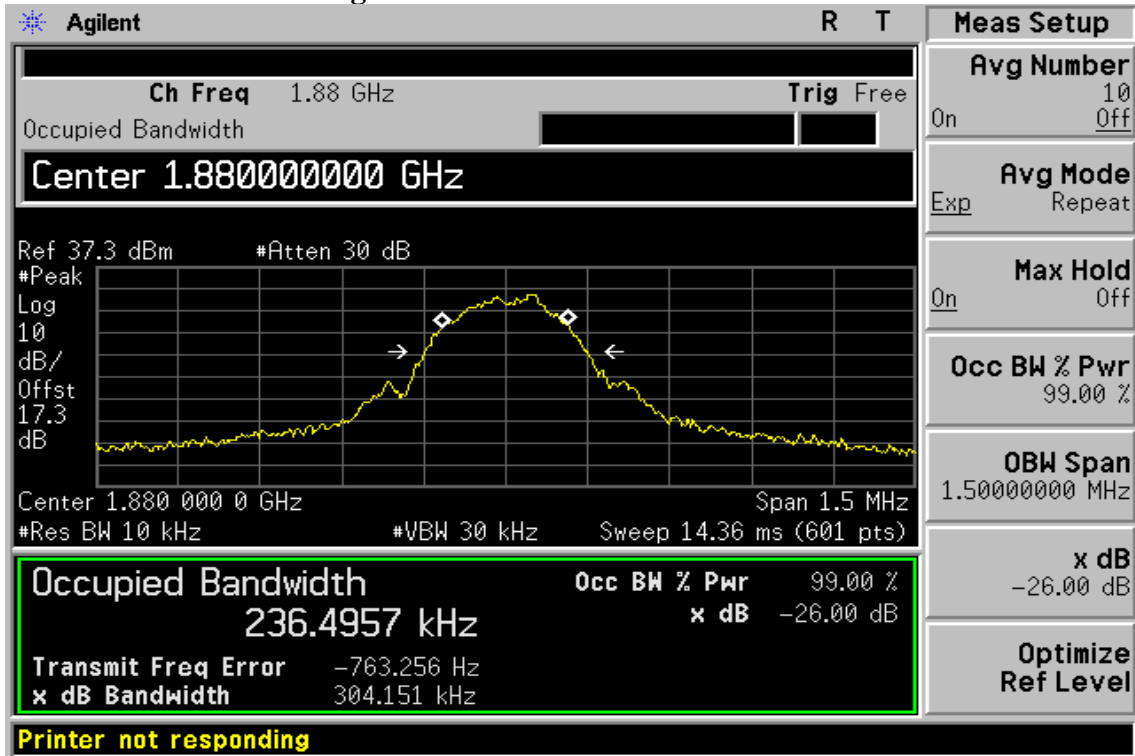
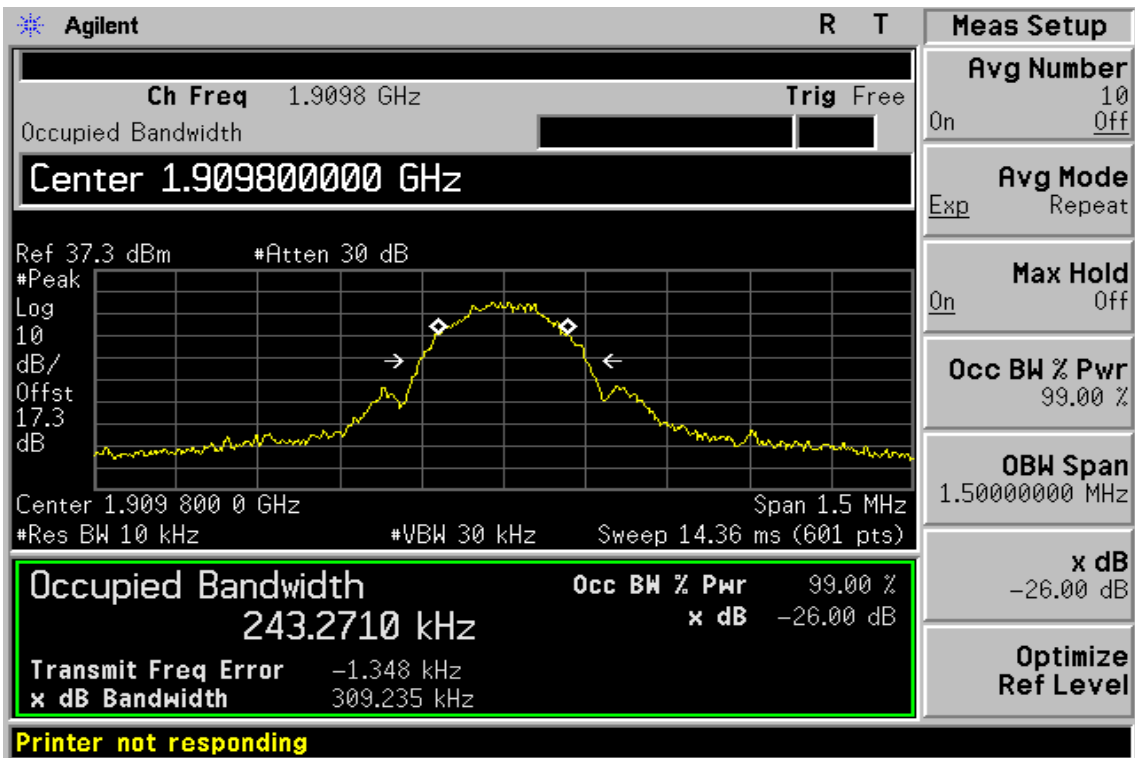


Figure 7-6: EDGE 1900 Channel High



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8. OUT OF BAND EMISSION AT ANTENNA TERMINALS (TX)

8.1 Standard Applicable

According to FCC §2.1051.

FCC §22.917(a), §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

According to RSS-132 §4.5

4.5.1 Out-of-block Emissions

Mobile and base station equipment with emission bandwidth less than or equal to 4 MHz shall comply with 4.5.1.1. Mobile station equipment with emission bandwidth greater than 4 MHz shall comply with 4.5.1.2. Base station equipment with emission bandwidth greater than 4 MHz shall comply with either 4.5.1.2 or 4.5.1.3.

4.5.1.1 In the first 1.0 MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least $43 + 10 \log (P)$, dB. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least

$43 + 10 \log (P)$, dB, in any 100 kHz bandwidth.

4.5.1.2 In the first 1.0 MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least $43 + 10 \log (P)$, dB. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least

$43 + 10 \log (P)$, dB, in any 1 MHz bandwidth

According to RSS-133 §6.5

6.5.1 Out-of-Block Emissions

a. Mobile stations must comply with subsection i. below.

In the first 1.0MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least $43 + 10 \log (P)$ dB.

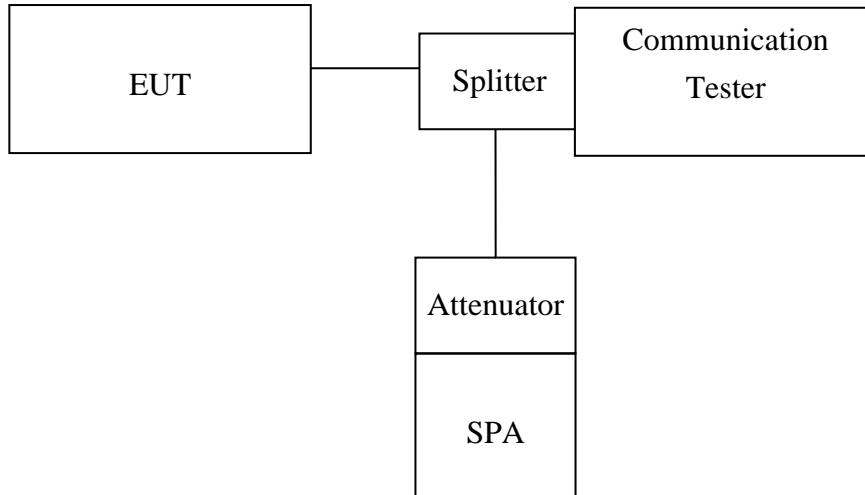
b. After the first 1.0 MHz (for equipment that complies with a.i. of this subsection) or 1.5 MHz (for equipment that complies with all of this subsection), the power of emissions shall be attenuated below the transmitter output power by at least $43 + 10 \log (P)$, dB, per any MHz of bandwidth.

(Note: If the test result using 1% of the emission bandwidth is used, then power integration over 1.0 MHz is required; alternatively, the spectrum analyzer resolution and video bandwidths can be increased to 1.0 MHz for this measurement).

6.5.2 Out-of-Sub-band Emissions

Outside the sub-bands 1850-1910 MHz and 1930-1990 MHz, the attenuation shall be equal to or greater than the out-of-block emission limits in Section 6.5.1.

8.2 Test SET-UP



Note: Measurement setup for testing on Antenna connector

8.3 Measurement Procedure

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

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

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

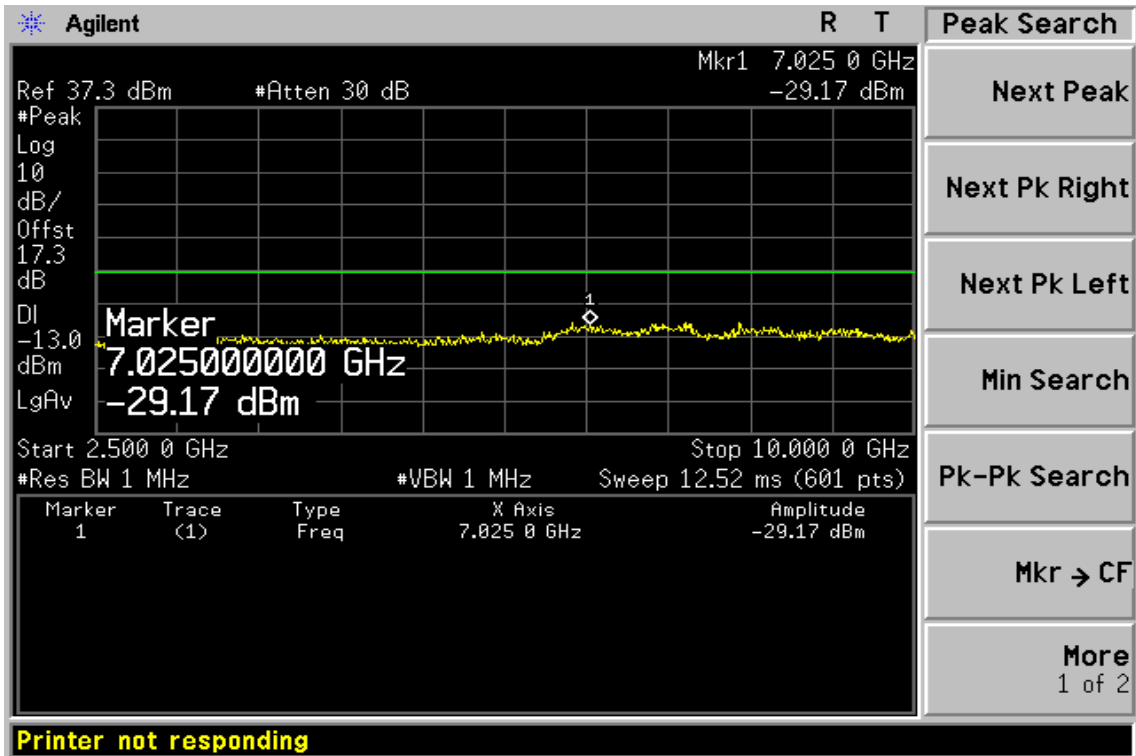
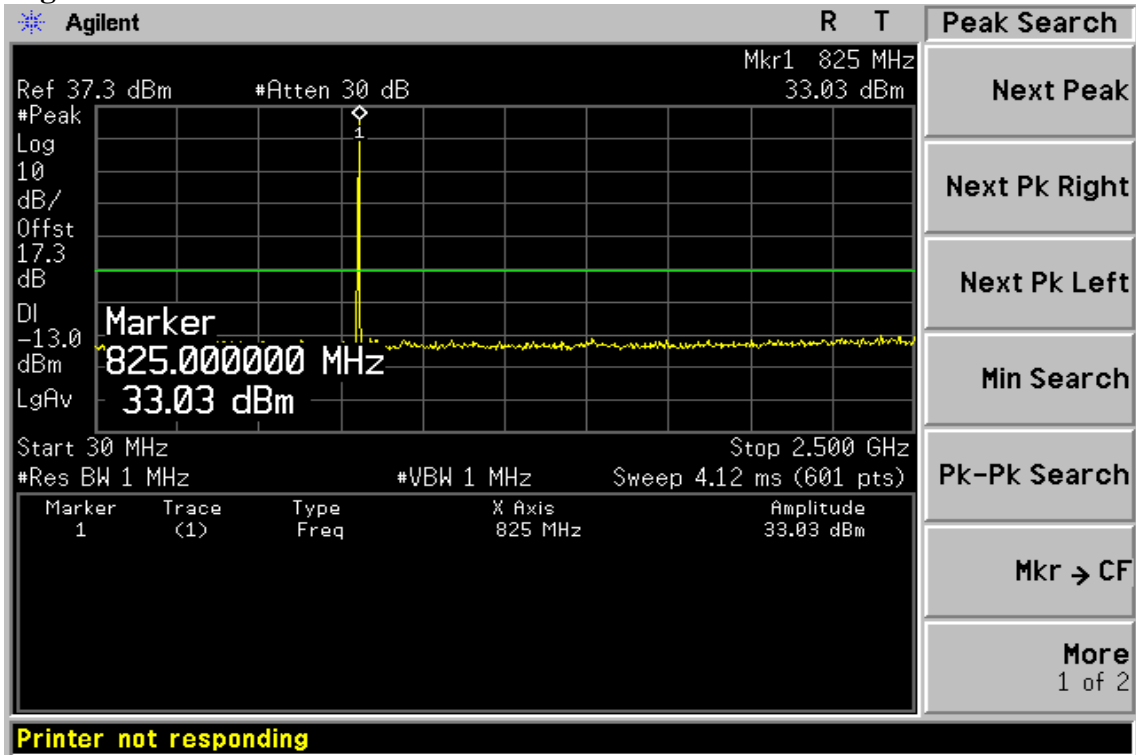
8.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2008	01/22/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2010
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2009	01/04/2010
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2009	01/04/2010
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2008	04/13/2010
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/05/2008	02/04/2010
DC Block	Agilent	BLK-18	155452	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2009	07/04/2010
Splitter	Agilent	11636B	N/A	07/05/2009	07/04/2010
DC Power Supply	HP	6038A	2929A-07548	06/27/2009	06/26/2011
DC Power Supply	Topward	3303D	981327	10/26/2009	10/25/2011

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8.5 Measurement Result

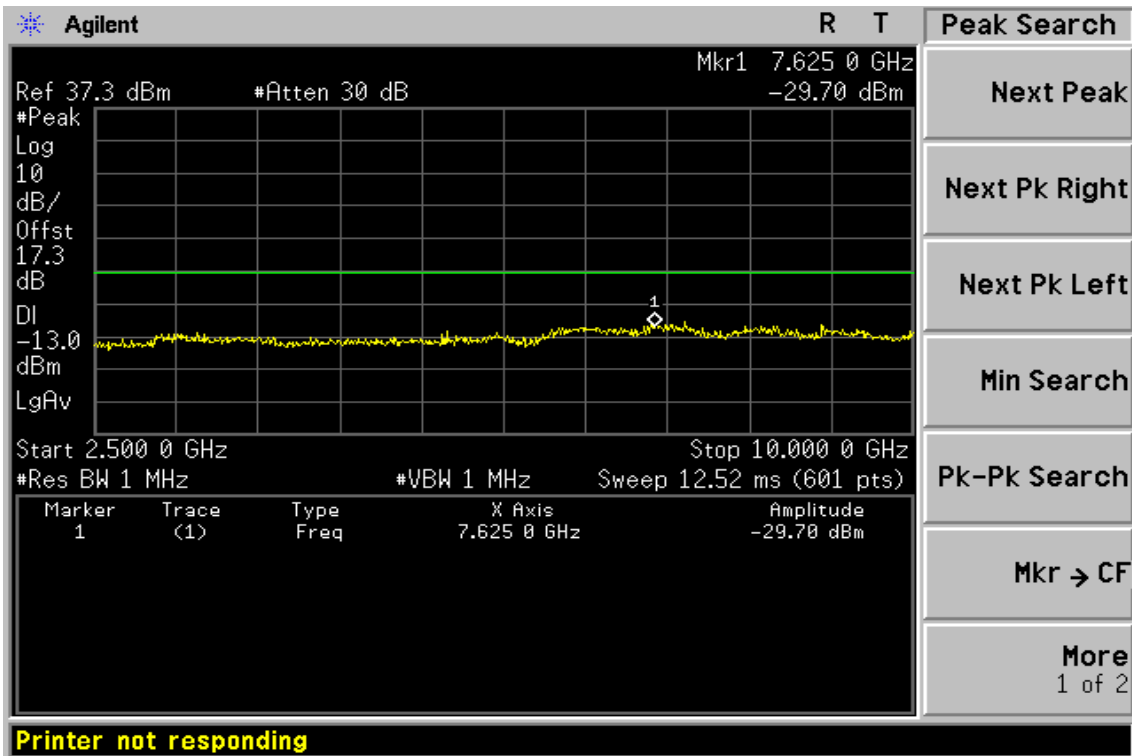
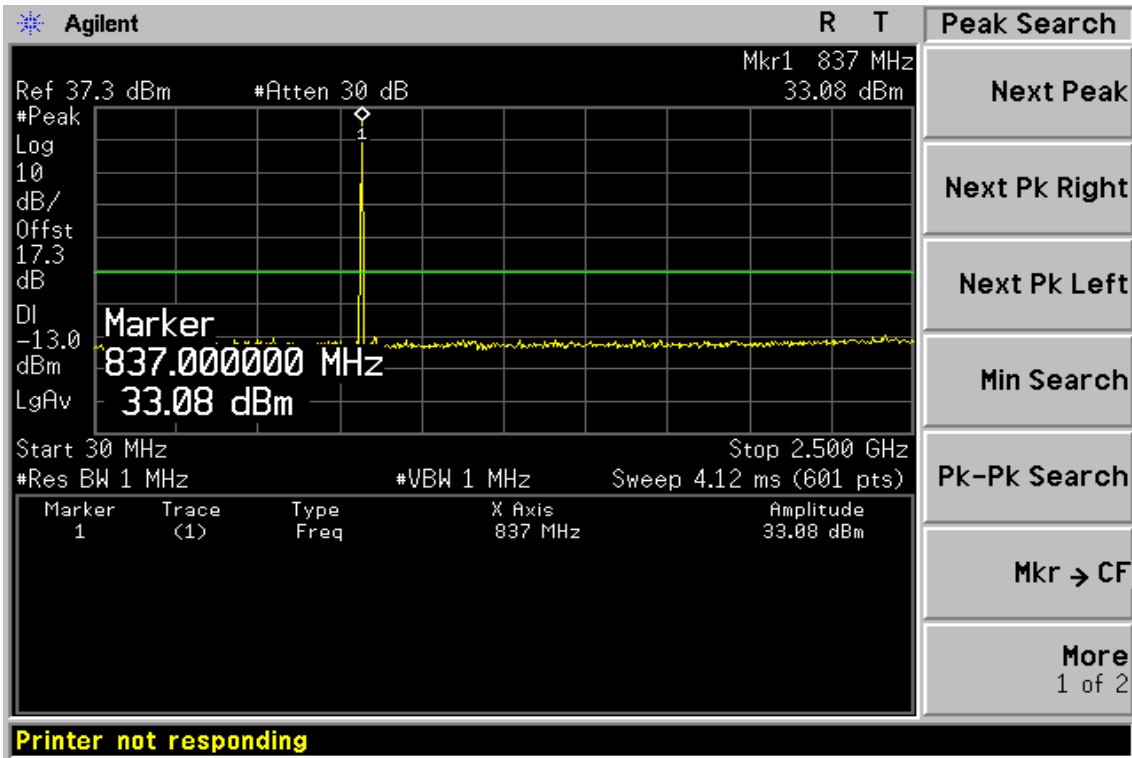
Figure 8-1: Out of Band emission at antenna terminals–GSM 850 Channel Lowest



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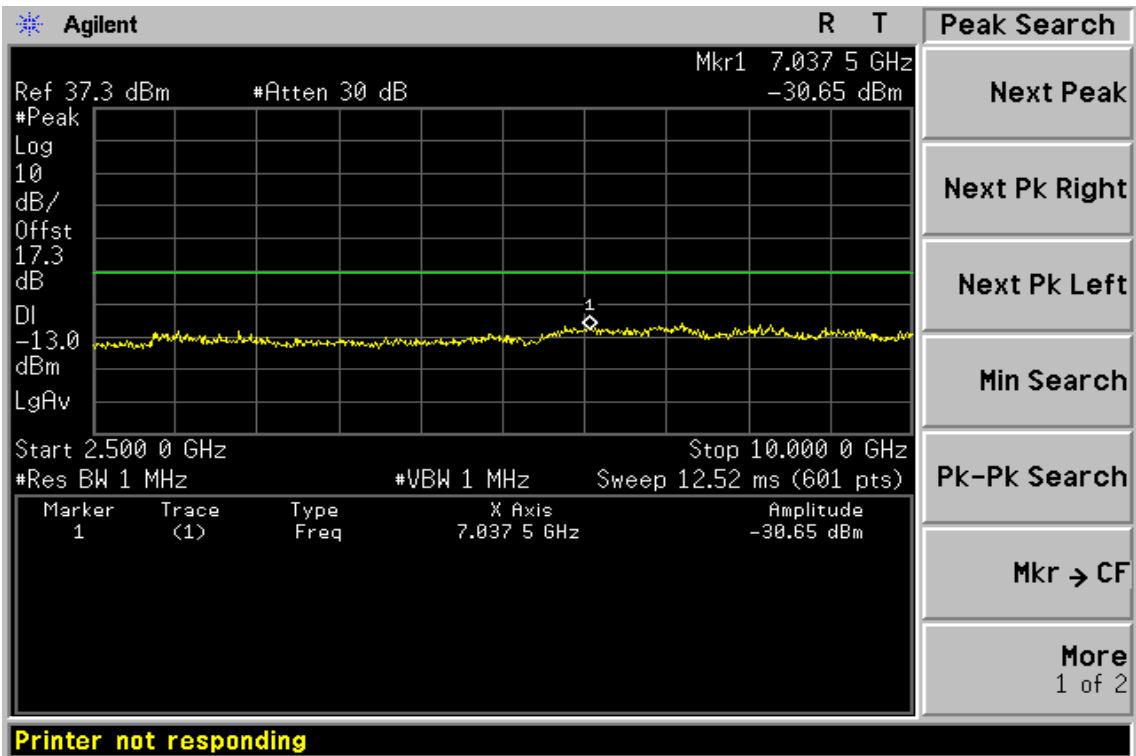
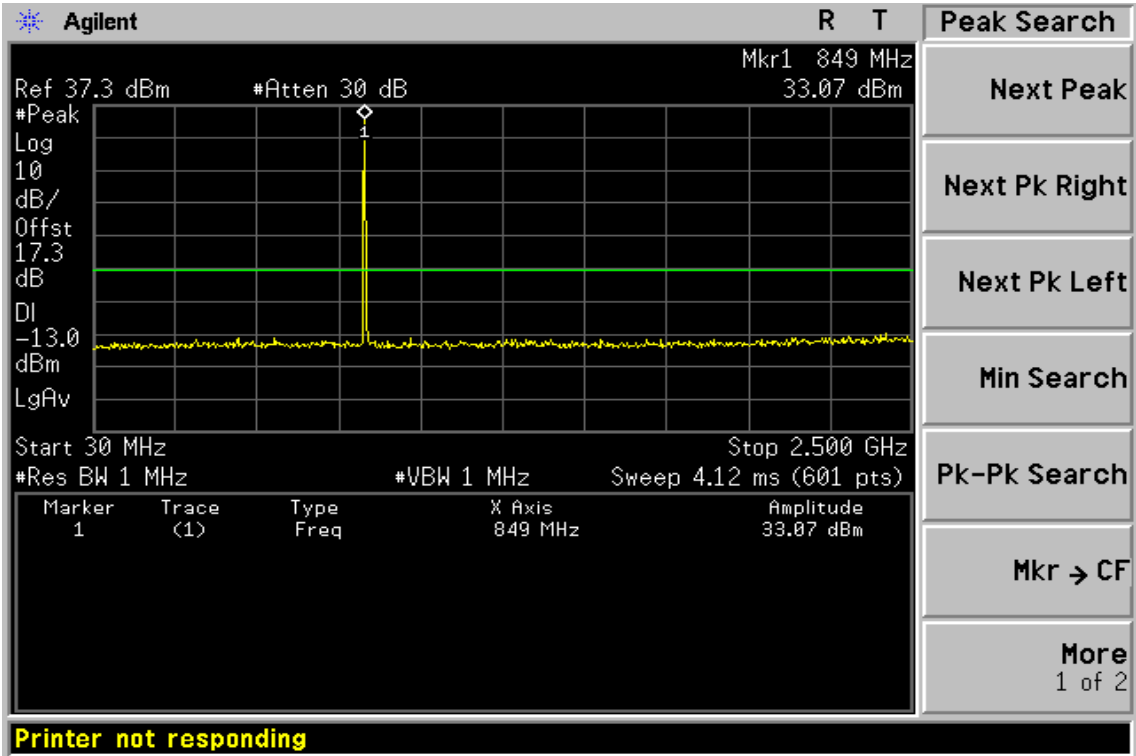
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Figure 8-2: Out of Band emission at antenna terminals –GSM 850 Channel Mid



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Figure 8-3: Out of Band emission at antenna terminals–GSM 850 Channel Highest



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Figure 8-4: Band edge emission at antenna terminals –GSM 850 Channel Lowest

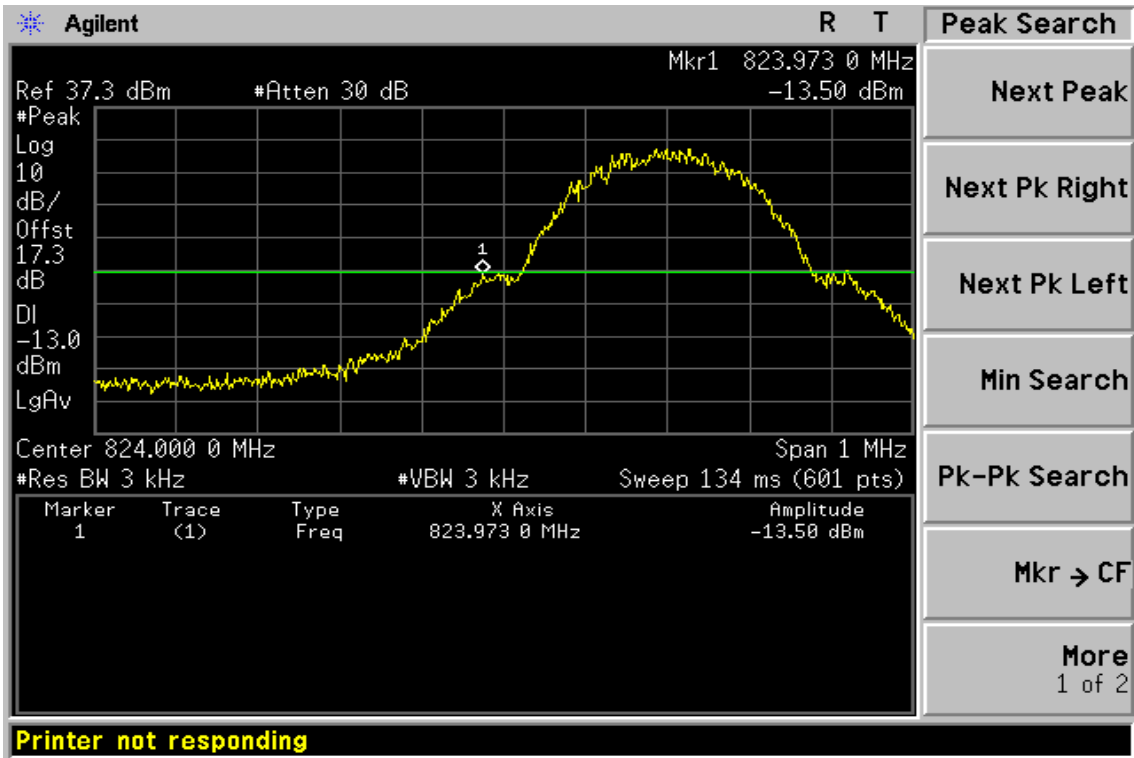
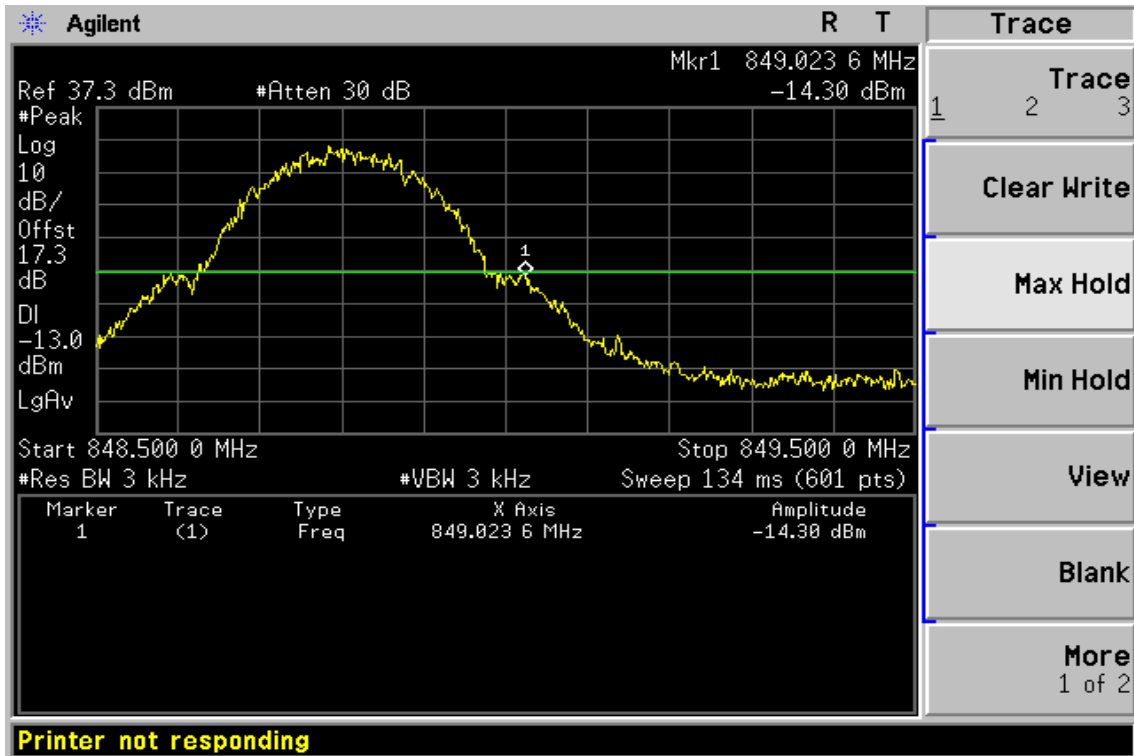


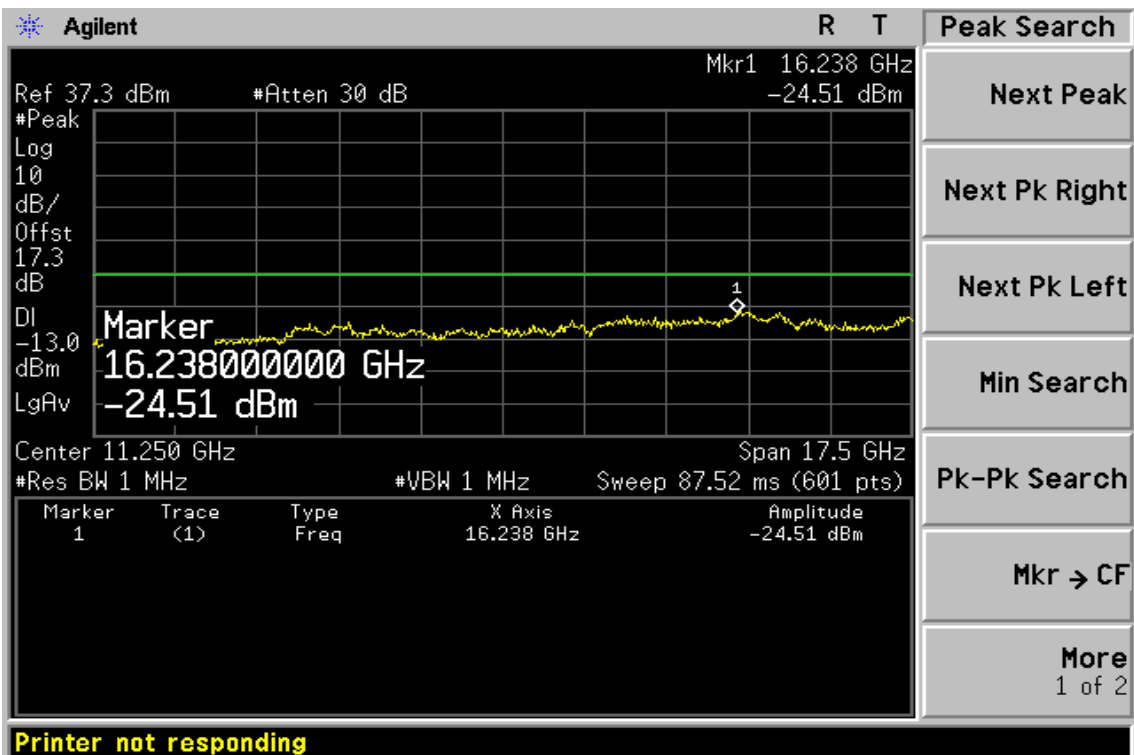
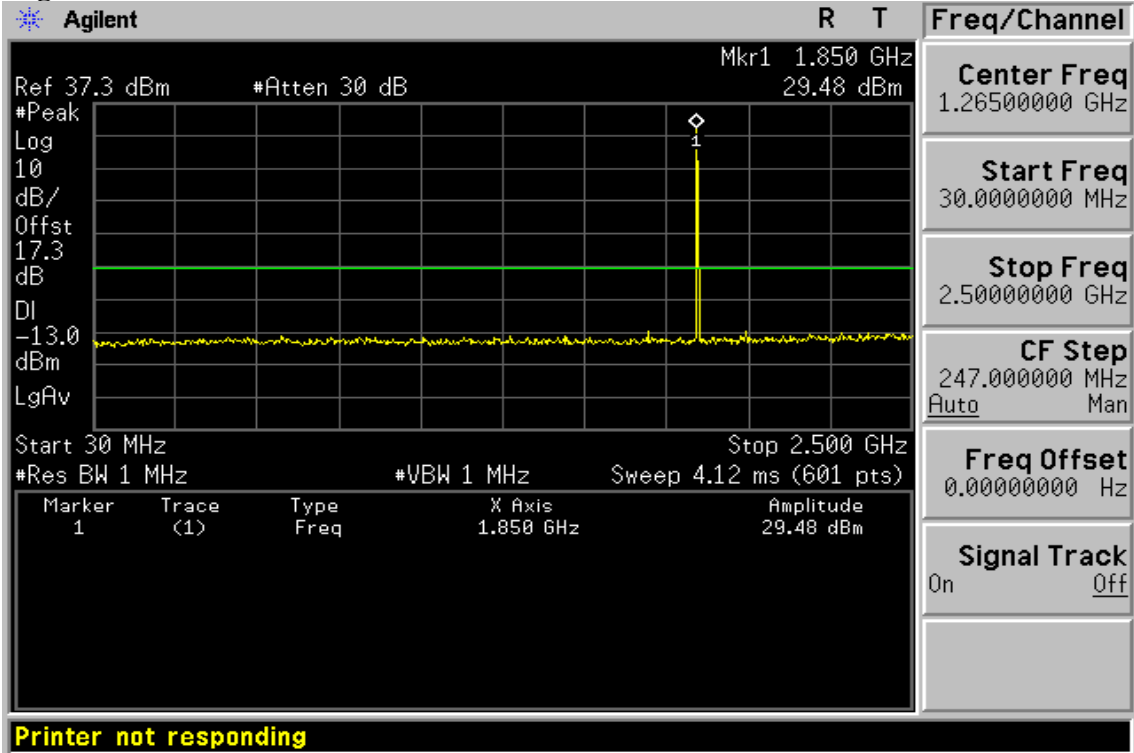
Figure 8-5: Band edge emission at antenna terminals –GPRS 850 Channel Highest



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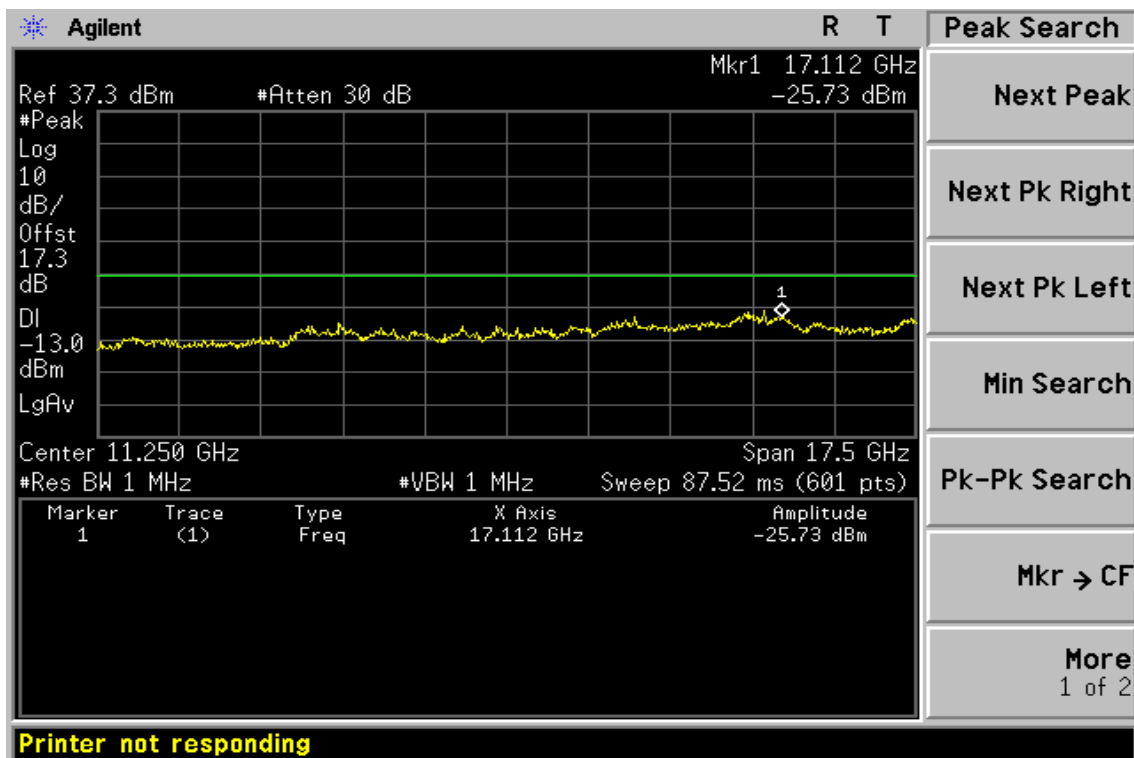
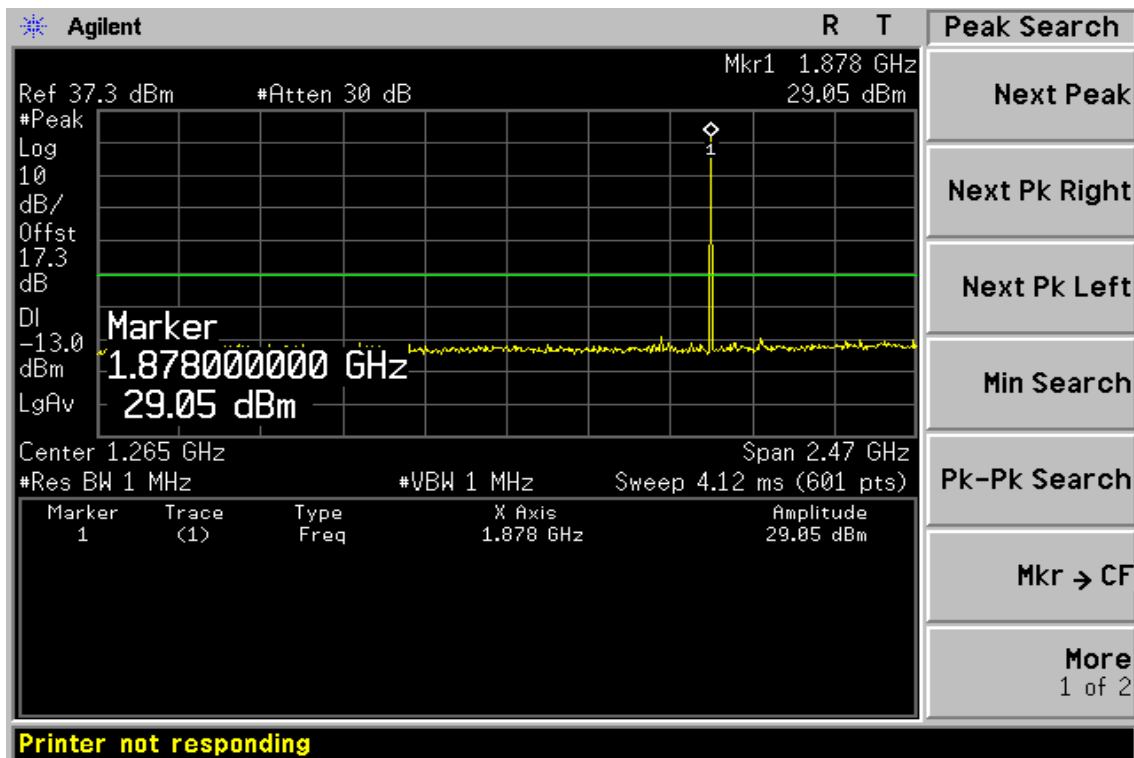
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Figure 8-6: Out of Band emission at antenna terminals–PCS 1900 Channel Lowest



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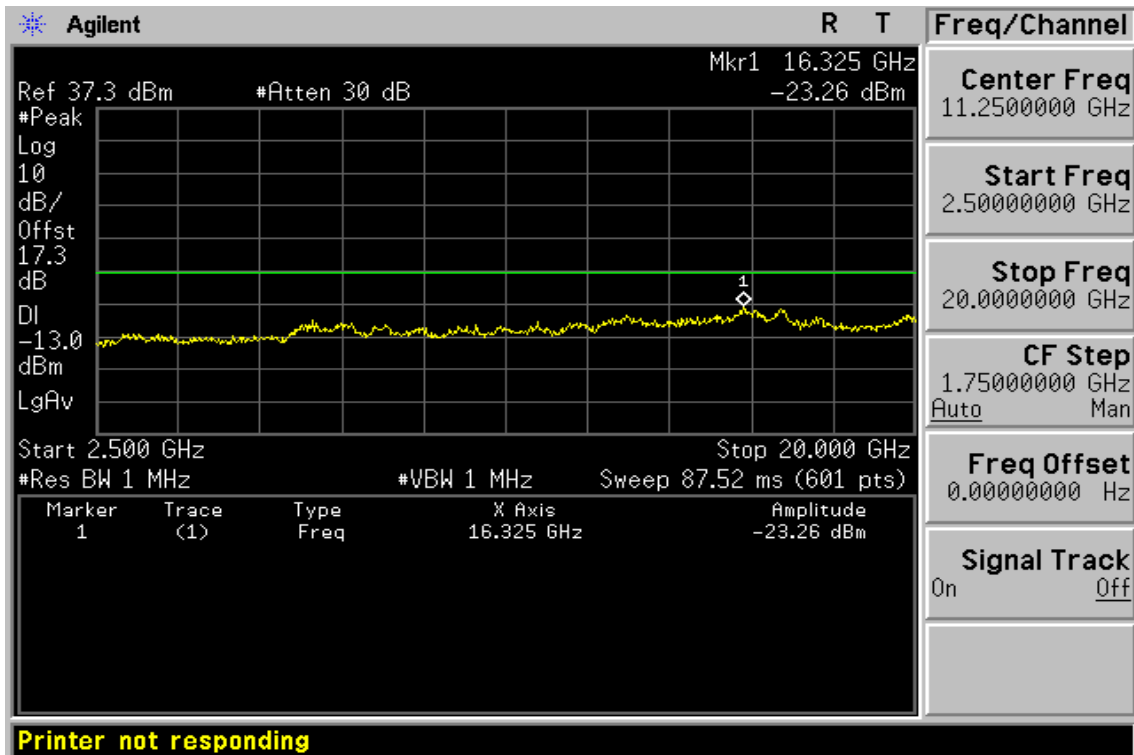
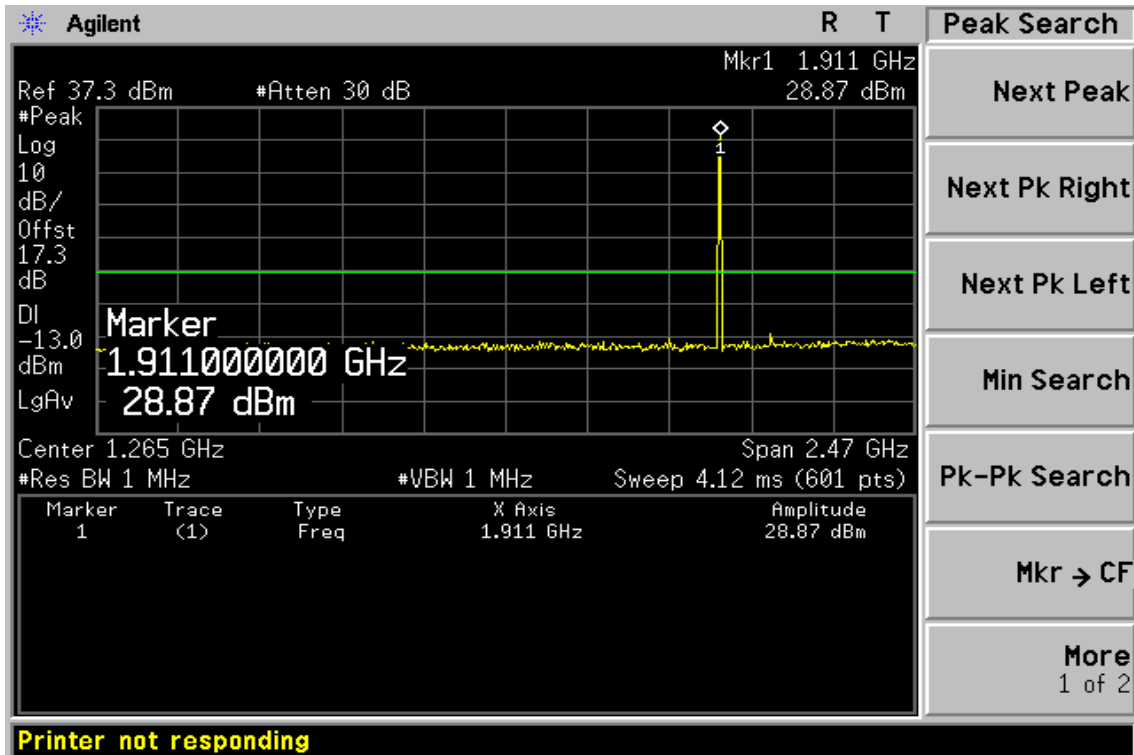
Figure 8-7: Out of Band emission at antenna terminals –PCS 1900 Channel Mid



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Figure 8-8: Out of Band emission at antenna terminals–PCS 1900 Channel Highest



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Figure 8-9: Band edge emission at antenna terminals –PCS 1900 Channel Lowest

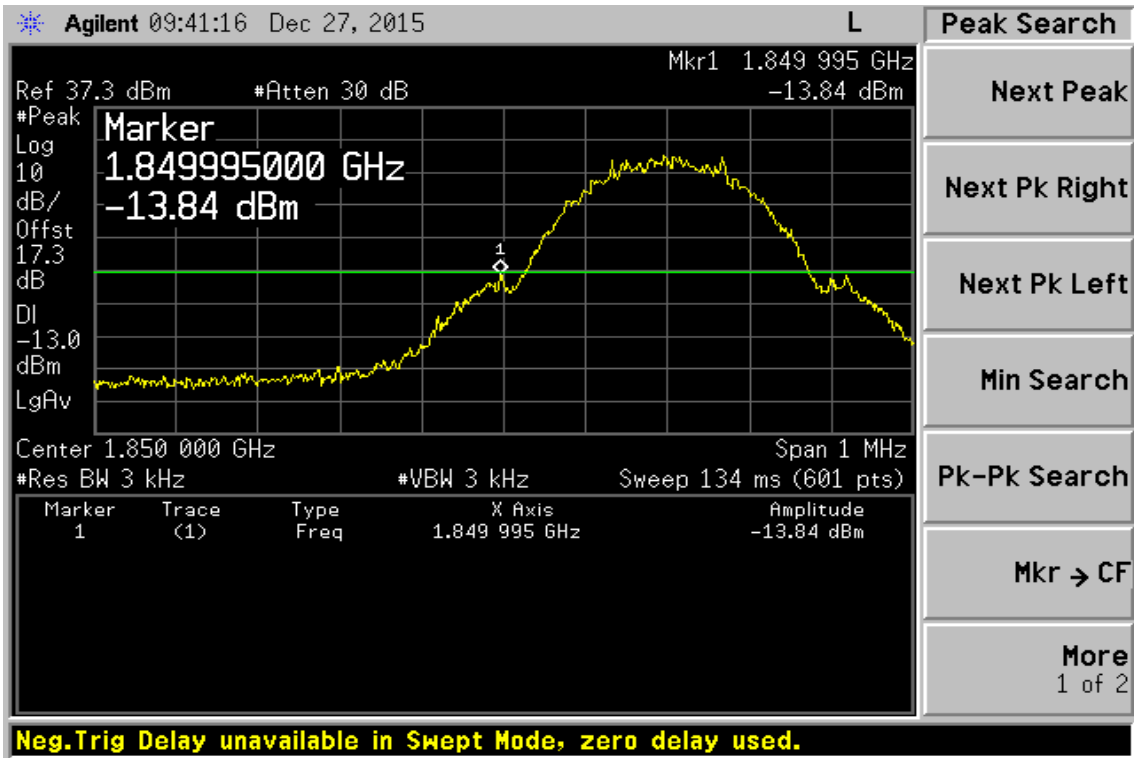
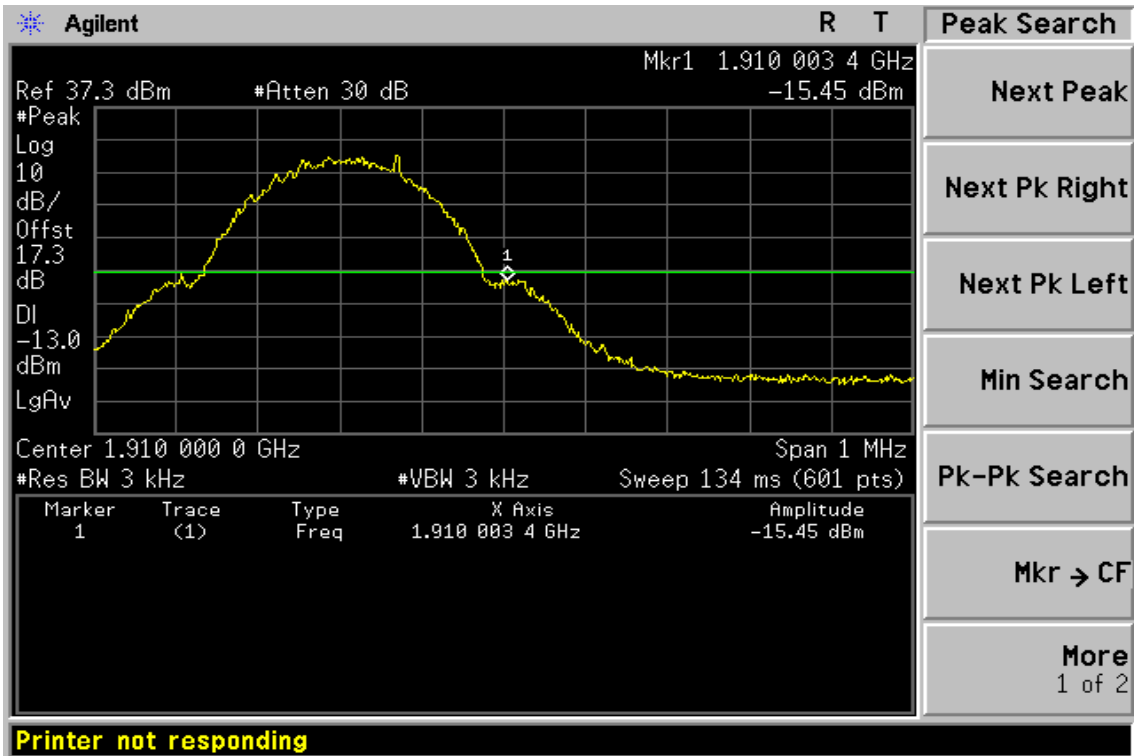


Figure 8-10: Band edge emission at antenna terminals –PCS 1900 Channel Highest



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT (TX)

9.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

According to RSS-132 §4.5

4.5.1 Out-of-block Emissions

Mobile and base station equipment with emission bandwidth less than or equal to 4 MHz shall comply with 4.5.1.1. Mobile station equipment with emission bandwidth greater than 4 MHz shall comply with 4.5.1.2. Base station equipment with emission bandwidth greater than 4 MHz shall comply with either 4.5.1.2 or 4.5.1.3.

4.5.1.1 In the first 1.0 MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least $43 + 10 \log (P)$, dB. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least

$43 + 10 \log (P)$, dB, in any 100 kHz bandwidth.

4.5.1.2 In the first 1.0 MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least $43 + 10 \log (P)$, dB. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least

$43 + 10 \log (P)$, dB, in any 1 MHz bandwidth

According to RSS-133 §6.5

6.5.1 Out-of-Block Emissions

a. Mobile stations must comply with subsection i. below.

In the first 1.0MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least $43 + 10 \log (P)$ dB.

b. After the first 1.0 MHz (for equipment that complies with a.i. of this subsection) or 1.5 MHz (for equipment that complies with all of this subsection), the power of emissions shall be attenuated below the transmitter output power by at least $43 + 10 \log (P)$, dB, per any MHz of bandwidth.

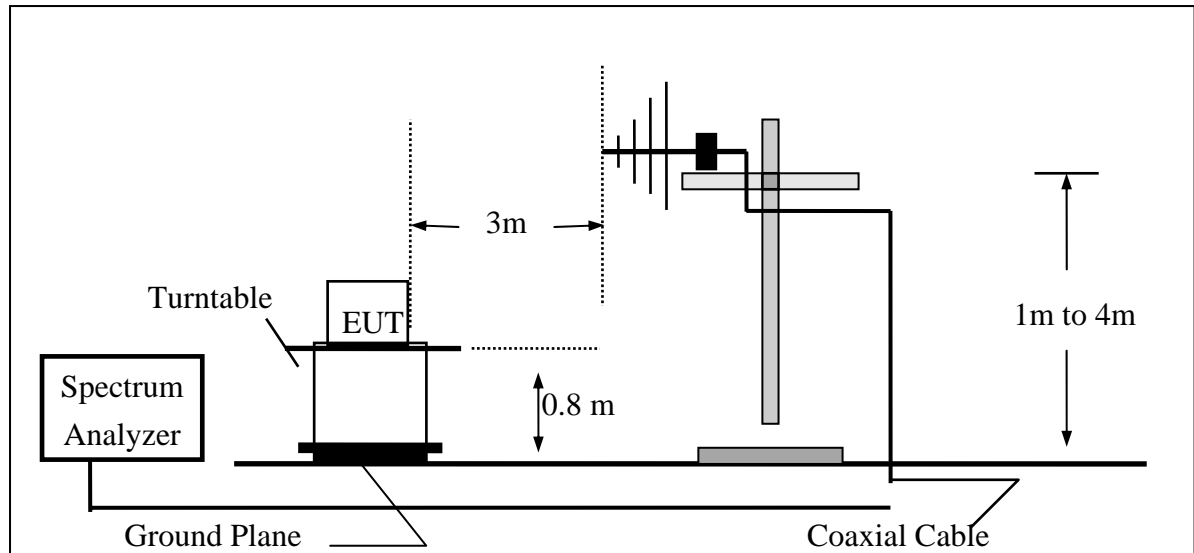
(Note: If the test result using 1% of the emission bandwidth is used, then power integration over 1.0 MHz is required; alternatively, the spectrum analyzer resolution and video bandwidths can be increased to 1.0 MHz for this measurement).

6.5.2 Out-of-Sub-band Emissions

Outside the sub-bands 1850-1910 MHz and 1930-1990 MHz, the attenuation shall be equal to or greater than the out-of-block emission limits in Section 6.5.1.

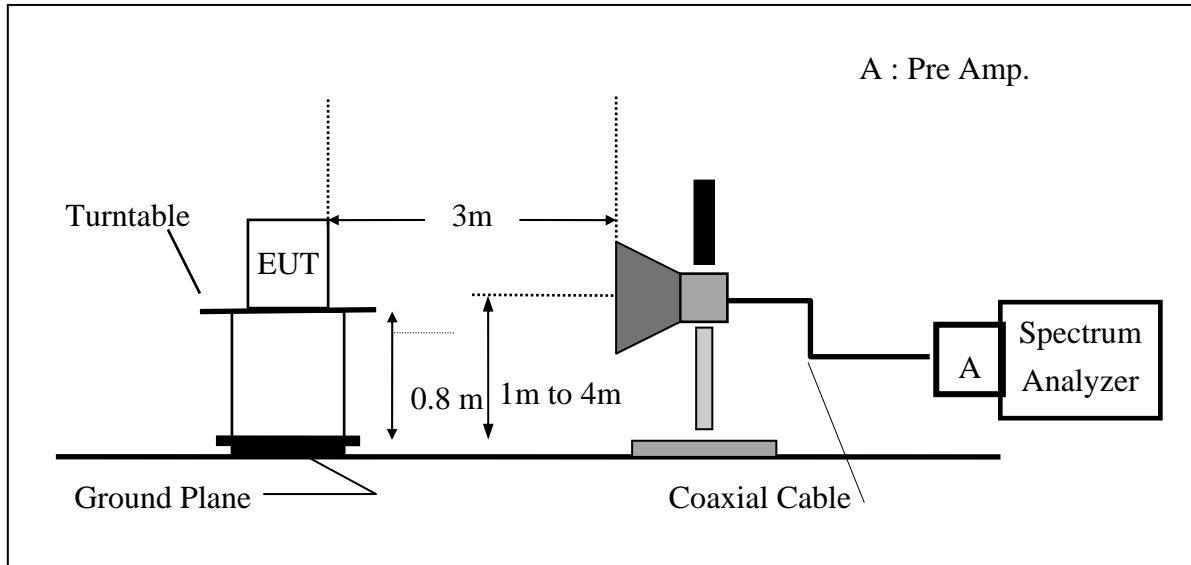
9.2 EUT Setup (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz

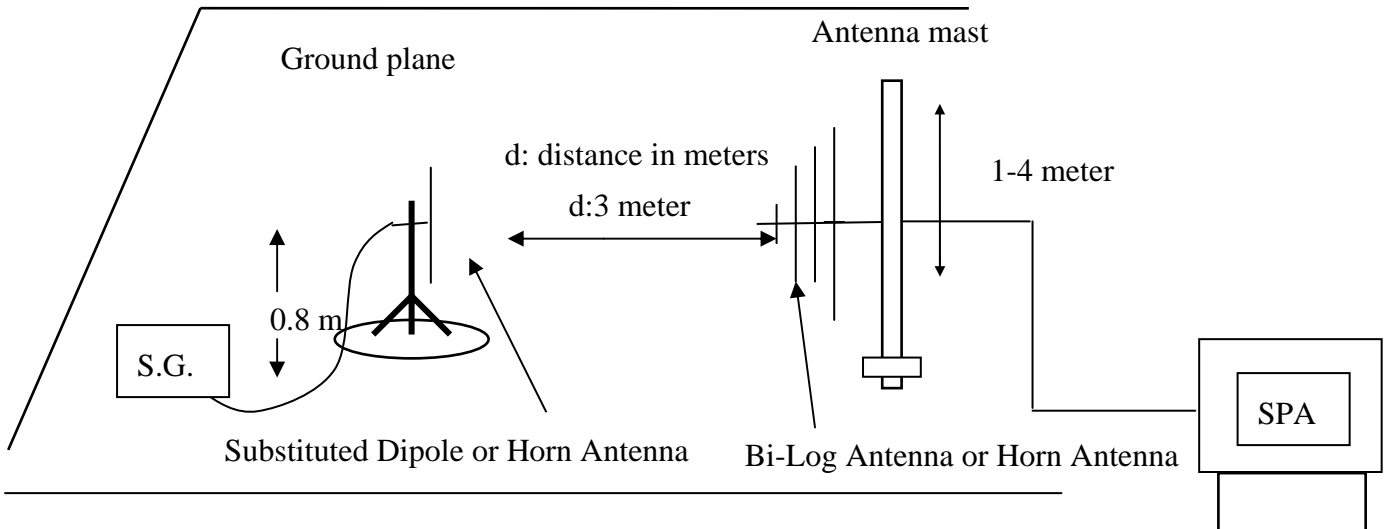


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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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9.3 Measurement Procedure

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

During the measurement, the EUT was in 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.

ERP in frequency band 824.2 –848.8 MHz were measured using a substitution method. The EUT was replaced by a dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

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

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

9.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2009	02/11/2010
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2009	11/14/2010
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/10/2008	07/09/2010
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/10/2008	07/09/2010
Hor.n antenna	SCHWAZBECK	BBHA 9120D	309	01/22/2008	01/21/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010
Signal Generator	R&S	SMR40	100210	01/22/2008	01/21/2010
Signal Generator	Agilent	E4438C	MY45093613	05/22/2009	05/21/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2009	07/04/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/208	05/12/2010
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2009	01/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2009	01/04/2010
3m Site	SGS	966 chamber	N/A	11/08/2009	11/09/2010

9.5 Measurement Result

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	Nov. 28, 2009
Fundamental Frequency	: 824.20 MHz	Test By:	Jazz
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
75.59	42.65	V	-68.87	-1.85	1.19	-71.92	-13.00	-58.92
94.99	42.22	V	-60.34	-7.75	1.31	-69.41	-13.00	-56.41
153.19	33.39	V	-64.19	-7.80	1.60	-73.59	-13.00	-60.59
342.34	31.07	V	-66.65	-7.68	2.33	-76.67	-13.00	-63.67
463.59	31.76	V	-62.23	-7.71	2.70	-72.63	-13.00	-59.63
654.68	32.46	V	-56.51	-7.81	3.17	-67.50	-13.00	-54.50
824.00	77.14	V	-9.25	-7.87	3.62	-20.75	-13.00	-7.75
1648.40	78.28	V	-26.30	9.29	5.23	-22.24	-13.00	-9.24
2472.60	60.49	V	-40.52	10.08	6.53	-36.97	-13.00	-23.97
3296.80	56.58	V	-42.29	12.17	7.71	-37.84	-13.00	-24.84
4121.00	47.60	V	-48.52	12.61	8.86	-44.77	-13.00	-31.77
4945.20	40.56	V	-51.91	12.65	9.74	-49.00	-13.00	-36.00
5769.40	---	V		13.55	10.54		-13.00	
6593.60	---	V		12.05	11.30		-13.00	
7417.80	---	V		11.49	12.10		-13.00	
8242.00	---	V		11.48	12.71		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	Nov. 28, 2009
Fundamental Frequency	: 824.20 MHz	Test By:	Jazz
Temperature	: 25	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
75.59	44.80	H	-67.56	-1.85	1.19	-70.60	-13.00	-57.60
90.14	42.27	H	-61.46	-7.75	1.27	-70.48	-13.00	-57.48
179.38	33.80	H	-66.25	-7.82	1.66	-75.73	-13.00	-62.73
390.84	35.97	H	-60.60	-7.66	2.48	-70.74	-13.00	-57.74
547.98	36.75	H	-55.04	-7.76	2.95	-65.75	-13.00	-52.75
649.83	37.03	H	-52.69	-7.81	3.16	-63.66	-13.00	-50.66
824.00	82.90	H	-3.37	-7.87	3.62	-14.87	-13.00	-1.87
1648.40	75.45	H	-28.95	9.29	5.23	-24.89	-13.00	-11.89
2472.60	61.13	H	-39.78	10.08	6.53	-36.23	-13.00	-23.23
3296.80	50.70	H	-48.40	12.17	7.71	-43.94	-13.00	-30.94
4121.00	53.70	H	-42.55	12.61	8.86	-38.80	-13.00	-25.80
4945.20	44.19	H	-48.45	12.65	9.74	-45.53	-13.00	-32.53
5769.40	38.98	H	-51.33	13.55	10.54	-48.32	-13.00	-35.32
6593.60	---	H		12.05	11.30		-13.00	
7417.80	---	H		11.49	12.10		-13.00	
8242.00	---	H		11.48	12.71		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid E2 Mode Test Date: Nov. 28, 2009
 Fundamental Frequency : 836.60 MHz Test By: Jazz
 Temperature : 25 Pol: Ver
 Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
75.59	43.76	V	-67.76	-1.85	1.19	-70.81	-13.00	-57.81
94.99	43.79	V	-58.77	-7.75	1.31	-67.84	-13.00	-54.84
153.19	33.50	V	-64.08	-7.80	1.60	-73.48	-13.00	-60.48
303.54	32.84	V	-65.37	-7.90	2.18	-75.45	-13.00	-62.45
410.24	31.63	V	-63.55	-7.67	2.54	-73.76	-13.00	-60.76
754.59	32.23	V	-54.84	-7.87	3.48	-66.19	-13.00	-53.19
1673.20	80.96	V	-23.60	9.36	5.27	-19.50	-13.00	-6.50
2509.80	54.02	V	-46.76	10.09	6.58	-43.26	-13.00	-30.26
3346.40	57.74	V	-41.12	12.28	7.79	-36.64	-13.00	-23.64
4183.00	---	V		12.62	8.93		-13.00	
5019.60	---	V		12.67	9.81		-13.00	
5856.20	---	V		13.68	10.62		-13.00	
6692.80	---	V		11.95	11.39		-13.00	
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM Mode

Operation Mode : TX CH Mid E2 Mode Test Date: Nov. 28, 2009
Fundamental Frequency : 836.60 MHz Test By: Jazz
Temperature : 25 Pol: Hor
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
41.64	40.28	H	-63.23	-2.31	0.93	-66.47	-13.00	-53.47
75.59	45.49	H	-66.87	-1.85	1.19	-69.91	-13.00	-56.91
159.98	33.14	H	-65.40	-7.81	1.61	-74.83	-13.00	-61.83
256.98	35.28	H	-63.72	-7.89	2.02	-73.63	-13.00	-60.63
387.93	35.98	H	-60.64	-7.66	2.47	-70.76	-13.00	-57.76
557.68	36.37	H	-55.19	-7.76	2.97	-65.93	-13.00	-52.93
1673.20	73.12	H	-31.26	9.36	5.27	-27.16	-13.00	-14.16
2509.80	55.45	H	-45.25	10.09	6.58	-41.75	-13.00	-28.75
3346.40	48.22	H	-50.84	12.28	7.79	-46.36	-13.00	-33.36
4183.00	39.67	H	-56.36	12.62	8.93	-52.67	-13.00	-39.67
5019.60	---	H		12.67	9.81		-13.00	
5856.20	---	H		13.68	10.62		-13.00	
6692.80	---	H		11.95	11.39		-13.00	
7529.40	---	H		11.45	12.20		-13.00	
8366.00	---	H		11.59	12.81		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High E2 Mode Test Date: Nov. 28, 2009
 Fundamental Frequency : 848.80 MHz Test By: Jazz
 Temperature : 25 Pol: Ver
 Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
75.59	43.64	V	-67.88	-1.85	1.19	-70.93	-13.00	-57.93
102.75	41.96	V	-59.71	-7.76	1.37	-68.84	-13.00	-55.84
153.19	32.41	V	-65.17	-7.80	1.60	-74.57	-13.00	-61.57
247.28	31.92	V	-68.07	-7.89	1.97	-77.93	-13.00	-64.93
465.53	32.64	V	-61.36	-7.71	2.70	-71.76	-13.00	-58.76
649.83	32.21	V	-56.71	-7.81	3.16	-67.68	-13.00	-54.68
850.00	72.44	V	-13.67	-7.88	3.68	-25.23	-13.00	-12.23
1697.60	79.83	V	-24.71	9.44	5.31	-20.58	-13.00	-7.58
2546.40	54.42	V	-46.22	10.20	6.63	-42.66	-13.00	-29.66
3395.20	55.89	V	-42.96	12.38	7.87	-38.45	-13.00	-25.45
4244.00	40.19	V	-55.47	12.63	9.00	-51.84	-13.00	-38.84
5092.80	---	V		12.74	9.88		-13.00	
5941.60	---	V		13.81	10.70		-13.00	
6790.40	---	V		11.86	11.48		-13.00	
7639.20	---	V		11.40	12.27		-13.00	
8488.00	---	V		11.70	12.91		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High E2 Mode Test Date: Nov. 28, 2009
 Fundamental Frequency : 848.80 MHz Test By: Jazz
 Temperature : 25 Pol: Hor
 Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
75.59	46.45	H	-65.91	-1.85	1.19	-68.95	-13.00	-55.95
90.14	41.90	H	-61.83	-7.75	1.27	-70.85	-13.00	-57.85
159.98	33.64	H	-64.90	-7.81	1.61	-74.33	-13.00	-61.33
264.74	33.34	H	-65.42	-7.90	2.04	-75.36	-13.00	-62.36
390.84	34.39	H	-62.18	-7.66	2.48	-72.32	-13.00	-59.32
565.44	35.29	H	-56.12	-7.77	2.98	-66.87	-13.00	-53.87
649.83	36.24	H	-53.48	-7.81	3.16	-64.45	-13.00	-51.45
850.00	80.57	H	-5.62	-7.88	3.68	-17.18	-13.00	-4.18
1697.60	78.56	H	-25.79	9.44	5.31	-21.66	-13.00	-8.66
2546.40	56.52	H	-44.08	10.20	6.63	-40.52	-13.00	-27.52
3395.20	52.12	H	-46.91	12.38	7.87	-42.39	-13.00	-29.39
4244.00	40.81	H	-55.00	12.63	9.00	-51.38	-13.00	-38.38
5092.80	---	H		12.74	9.88		-13.00	
5941.60	---	H		13.81	10.70		-13.00	
6790.40	---	H		11.86	11.48		-13.00	
7639.20	---	H		11.40	12.27		-13.00	
8488.00	---	H		11.70	12.91		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low E1 Mode Test Date: Nov. 28, 2009
Fundamental Frequency : 1850.20MHz Test By: Jazz
Temperature : 25 Pol: Ver
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
101.78	44.84	V	-56.92	-7.76	1.37	-66.04	-13.00	-53.04
153.19	31.90	V	-65.68	-7.80	1.60	-75.08	-13.00	-62.08
318.09	32.02	V	-66.01	-7.82	2.24	-76.06	-13.00	-63.06
441.28	31.25	V	-62.95	-7.69	2.63	-73.28	-13.00	-60.28
604.24	32.94	V	-56.57	-7.79	3.04	-67.41	-13.00	-54.41
807.97	31.81	V	-54.75	-7.87	3.59	-66.21	-13.00	-53.21
1850.00	78.66	V	-25.73	9.90	5.56	-21.39	-13.00	-8.39
3700.40	49.06	V	-48.87	12.61	8.31	-44.57	-13.00	-31.57
5550.60	45.47	V	-45.37	13.23	10.33	-42.47	-13.00	-29.47
7400.80	---	V		11.50	12.08		-13.00	
9251.00	---	V		11.92	13.50		-13.00	
11101.20	---	V		11.66	15.11		-13.00	
12951.40	---	V		13.63	16.60		-13.00	
14801.60	---	V		12.76	17.95		-13.00	
16651.80	---	V		15.92	19.14		-13.00	
18502.00	---	V		18.75	10.40		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low E1 Mode Test Date: Nov. 28, 2009
Fundamental Frequency : 1850.20MHz Test By: Jazz
Temperature : 25 Pol: Hor
Humidity : 65%

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
75.59	44.42	H	-67.94	-1.85	1.19	-70.98	-13.00	-57.98
159.98	32.99	H	-65.55	-7.81	1.61	-74.98	-13.00	-61.98
211.39	35.62	H	-65.48	-7.85	1.77	-75.10	-13.00	-62.10
256.98	34.78	H	-64.22	-7.89	2.02	-74.13	-13.00	-61.13
387.93	35.78	H	-60.84	-7.66	2.47	-70.96	-13.00	-57.96
649.83	34.40	H	-55.32	-7.81	3.16	-66.29	-13.00	-53.29
1850.00	79.58	H	-24.60	9.90	5.56	-20.26	-13.00	-7.26
3700.40	50.31	H	-47.73	12.61	8.31	-43.43	-13.00	-30.43
5550.60	40.57	H	-50.48	13.23	10.33	-47.58	-13.00	-34.58
7400.80	---	H		11.50	12.08		-13.00	
9251.00	---	H		11.92	13.50		-13.00	
11101.20	---	H		11.66	15.11		-13.00	
12951.40	---	H		13.63	16.60		-13.00	
14801.60	---	H		12.76	17.95		-13.00	
16651.80	---	H		15.92	19.14		-13.00	
18502.00	---	H		18.75	10.40		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Mid E1 Mode	Test Date:	Nov. 28, 2009
Fundamental Frequency	: 1880MHz	Test By:	Jazz
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
74.62	42.23	V	-69.34	-1.72	1.19	-72.24	-13.00	-59.24
101.78	44.20	V	-57.56	-7.76	1.37	-66.68	-13.00	-53.68
153.19	31.84	V	-65.74	-7.80	1.60	-75.14	-13.00	-62.14
402.48	32.01	V	-63.41	-7.66	2.52	-73.59	-13.00	-60.59
523.73	33.63	V	-59.73	-7.74	2.88	-70.34	-13.00	-57.34
730.34	31.40	V	-56.63	-7.87	3.40	-67.89	-13.00	-54.89
3760.00	49.64	V	-48.02	12.60	8.39	-43.80	-13.00	-30.80
5640.00	46.33	V	-44.25	13.36	10.41	-41.30	-13.00	-28.30
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	
18800.00	---	V		18.68	16.58		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Mid E1 Mode Test Date: Nov. 28, 2009
 Fundamental Frequency : 1880MHz Test By: Jazz
 Temperature : 25 Pol: Hor
 Humidity : 65%

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
75.59	43.91	H	-68.45	-1.85	1.19	-71.49	-13.00	-58.49
101.78	39.92	H	-62.89	-7.76	1.37	-72.02	-13.00	-59.02
225.94	36.15	H	-64.24	-7.87	1.86	-73.96	-13.00	-60.96
387.93	35.52	H	-61.10	-7.66	2.47	-71.22	-13.00	-58.22
594.54	32.88	H	-57.93	-7.79	3.02	-68.74	-13.00	-55.74
652.74	34.10	H	-55.51	-7.81	3.17	-66.49	-13.00	-53.49
3760.00	50.87	H	-46.90	12.60	8.39	-42.69	-13.00	-29.69
5640.00	42.48	H	-48.27	13.36	10.41	-45.32	-13.00	-32.32
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH High E1 Mode	Test Date:	Nov. 28, 2009
Fundamental Frequency	: 1909.8 MHz	Test By:	Jazz
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
94.99	43.76	V	-58.80	-7.75	1.31	-67.87	-13.00	-54.87
458.74	31.93	V	-62.04	-7.70	2.68	-72.42	-13.00	-59.42
611.03	33.09	V	-56.34	-7.79	3.06	-67.19	-13.00	-54.19
870.99	32.32	V	-53.22	-7.91	3.73	-64.85	-13.00	-51.85
1910.00	80.23	V	-24.10	10.08	5.66	-19.68	-13.00	-6.68
3814.00	44.41	V	-53.01	12.60	8.46	-48.87	-13.00	-35.87
3981.60	---	V		12.60	8.69		-13.00	
5718.00	41.72	V	-48.63	13.48	10.49	-45.64	-13.00	-32.64
5972.40	---	V		13.86	10.73		-13.00	
7963.20	---	V		11.27	12.49		-13.00	
9954.00	---	V		12.08	14.24		-13.00	
11944.80	---	V		13.08	15.87		-13.00	
13935.60	---	V		11.82	17.21		-13.00	
15926.40	---	V		17.08	18.70		-13.00	
17917.20	---	V		9.63	19.97		-13.00	
19908.00	---	V		18.88	21.24		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH High E1 Mode Test Date: Nov. 28, 2009
 Fundamental Frequency : 1909.8 MHz Test By: Jazz
 Temperature : 25 Pol: Hor
 Humidity : 65%

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
75.59	44.97	H	-67.39	-1.85	1.19	-70.43	-13.00	-57.43
387.93	34.28	H	-62.34	-7.66	2.47	-72.46	-13.00	-59.46
475.23	33.93	H	-59.74	-7.71	2.73	-70.18	-13.00	-57.18
647.89	34.45	H	-55.31	-7.81	3.15	-66.28	-13.00	-53.28
1910.00	79.13	H	-24.98	10.08	5.66	-20.56	-13.00	-7.56
3814.00	41.53	H	-56.00	12.60	8.46	-51.86	-13.00	-38.86
3981.60	---	H		12.60	8.69		-13.00	
5718.00	45.21	H	-45.28	13.48	10.49	-42.29	-13.00	-29.29
5972.40	---	H		13.86	10.73		-13.00	
7963.20	---	H		11.27	12.49		-13.00	
9954.00	---	H		12.08	14.24		-13.00	
11944.80	---	H		13.08	15.87		-13.00	
13935.60	---	H		11.82	17.21		-13.00	
15926.40	---	H		17.08	18.70		-13.00	
17917.20	---	H		9.63	19.97		-13.00	
19908.00	---	H		18.88	21.24		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark”---“ means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

10.1 Standard Applicable

According to FCC §2.1055(a)(1), §22.355, §24.235.

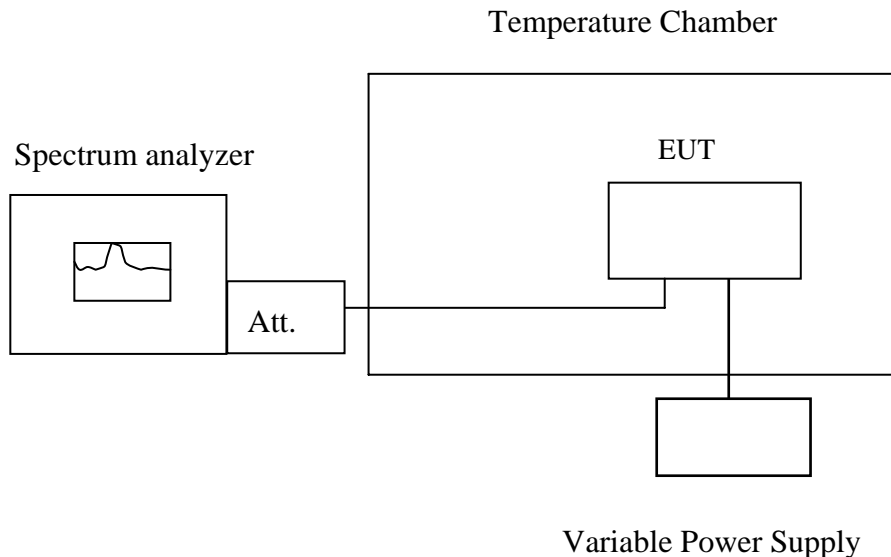
Frequency Tolerance: +/-2.5 ppm for 850MHz band

+/-2.5 ppm for 1900MHz band

According to RSS-133 §6.3, RSS-132 §4.3

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

10.2 Test Set-up:



Note : Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to 5°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

10.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2008	01/22/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2010
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2008	04/13/2010
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/05/2008	02/04/2010
DC Block	Agilent	BLK-18	155452	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2009	07/04/2010
Splitter	Agilent	11636B	N/A	07/05/2009	07/04/2010
DC Power Supply	HP	6038A	2929A-07548	06/27/2009	06/26/2011
DC Power Supply	Topward	3303D	981327	10/26/2009	10/25/2011

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10.5 Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-30	836.600001	-3.00	2091
3.6	-20	836.599996	2.00	2091
3.6	-10	836.599994	4.00	2091
3.6	0	836.599997	1.00	2091
3.6	10	836.599994	4.00	2091
3.6	20	836.599998	0.00	2091
3.6	30	836.599999	-1.00	2091
3.6	40	836.599995	3.00	2091
3.6	50	836.599997	1.00	2091

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-30	1879.999988	10.00	4700
3.6	-20	1879.999997	1.00	4700
3.6	-10	1879.999995	3.00	4700
3.6	0	1879.999993	5.00	4700
3.6	10	1879.999997	1.00	4700
3.6	20	1879.999998	0.00	4700
3.6	30	1880.000002	-4.00	4700
3.6	40	1879.999994	4.00	4700
3.6	50	1879.999993	5.00	4700

Note: The battery is rated 3.6V dc.

11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

11.1 Standard Applicable

According to FCC §2.1055(d)(1), §22.355, §24.235)

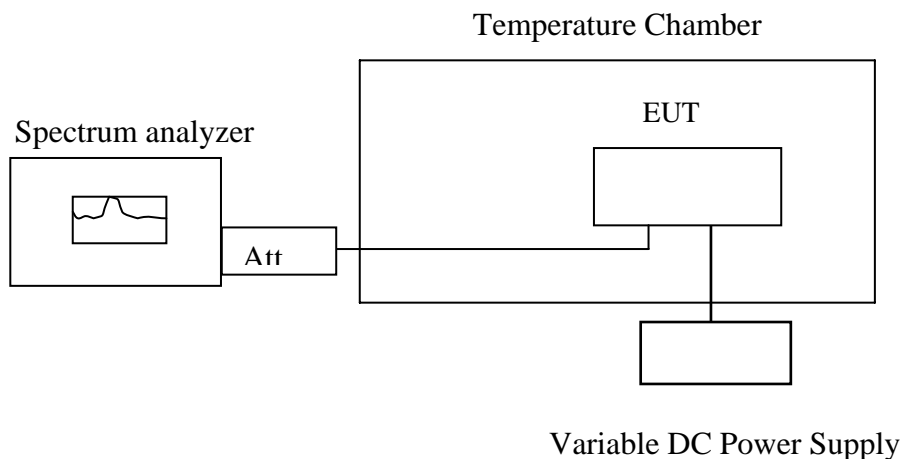
Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

According to RSS-133 §6.3, RSS-132 §4.3

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

11.2 Test Set-up:



Note: Measurement setup for t.....

11.3 Measurement Procedure

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

11.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2008	01/22/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2010
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2009	01/04/2010
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2009	01/04/2010
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2008	04/13/2010
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/05/2008	02/04/2010
DC Block	Agilent	BLK-18	155452	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2009	07/04/2010
Splitter	Agilent	11636B	N/A	07/05/2009	07/04/2010
DC Power Supply	HP	6038A	2929A-07548	06/27/2009	06/26/2011
DC Power Supply	Topward	3303D	981327	10/26/2009	10/25/2011

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11.5 Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	25.00	836.599996	0.00	2091.00
3.6	25.00	836.599993	3.00	2091.00
3.5	25.00	836.599992	4.00	2091.00
3.4 (Endpoint)	25.00	836.599989	7.00	2091.00

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	25	1879.999999	0.00	4700
3.6	25	1879.999997	2.00	4700
3.5	25	1879.999994	5.00	4700
3.4 (Endpoint)	25	1879.999992	7.00	4700

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12. AC POWER LINE CONDUCTED EMISSION TEST

12.1 Standard Applicable

According to §15.207. The emission value for frequency within 150KHz to 30MHz shall not exceed criteria of below chart.

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

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2003.
2. The EUT was plug-in DC power adaptor and was placed on the center of the back edge on the test table. The peripherals like earphone was placed on the side of the EUT. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The Power adaptor was connected with 110Vac/60Hz power source.

12.3 Measurement Procedure

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

12.4 Measurement Equipment Used:

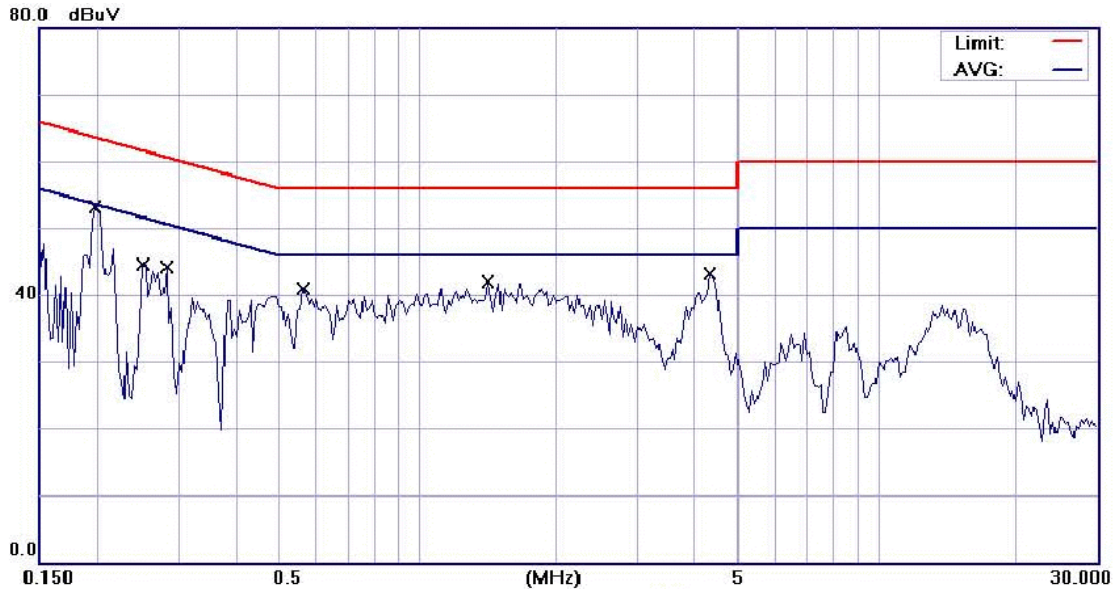
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/15/2009	09/14/2010
LISN	Rolf-Heine	NNB-2/16Z	99012	02/18/2009	02/17/2010
LISN	FCC	FCC-LISN-50/250 -25-2-01	04034	02/18/2009	02/17/2010
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2009	10/29/2010

12.5 Measurement Result

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

AC POWER LINE CONDUCTED EMISSION TEST DATA

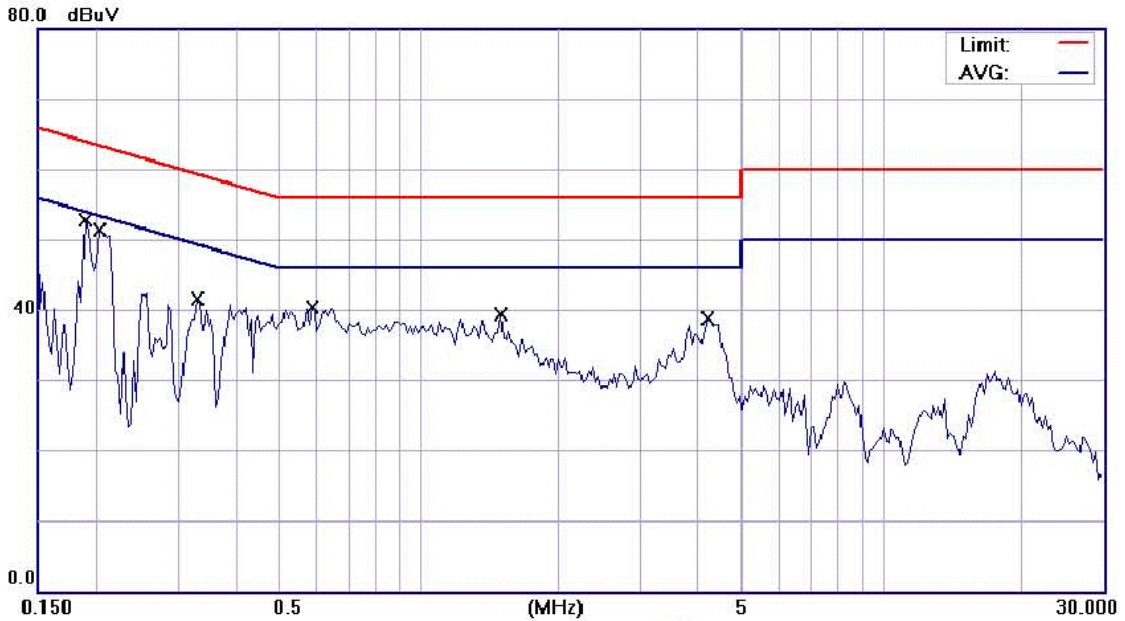
Operation Mode:	GSM 850 LINK			Test Date:	Nov. 28, 2009
Temperature:	23 °C	Humidity:	60 %	Test By:	Jazz



Site SGS CONDUCTED #1 Phase: **L1** Temperature: 23 °C
 Limit: CISPR22/11 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %
 EUT: POS terminal Distance: Air Pressure: hpa
 M/N: M81B
 Note: GSM 850 LINK

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1981	50.72	0.12	50.84	63.69	-12.85	QP	
2		0.1981	33.74	0.12	33.86	53.69	-19.83	AVG	
3		0.2514	34.81	0.11	34.92	61.71	-26.79	QP	
4		0.2514	21.78	0.11	21.89	51.71	-29.82	AVG	
5		0.2833	40.83	0.10	40.93	60.72	-19.79	QP	
6		0.2833	29.46	0.10	29.56	50.72	-21.16	AVG	
7		0.5641	35.31	0.07	35.38	56.00	-20.62	QP	
8		0.5641	28.35	0.07	28.42	46.00	-17.58	AVG	
9		1.4257	37.60	0.11	37.71	56.00	-18.29	QP	
10		1.4257	29.70	0.11	29.81	46.00	-16.19	AVG	
11		4.3376	31.80	0.15	31.95	56.00	-24.05	QP	
12		4.3376	32.88	0.15	33.03	46.00	-12.97	AVG	

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Site SGS CONDUCTED #1
Limit: CISPR22/11 Class B Conduction(QP)
EUT: POS terminal
M/N: M81B
Note: GSM 850 LINK

Phase: **N**
Power: AC 120V/60Hz
Distance:

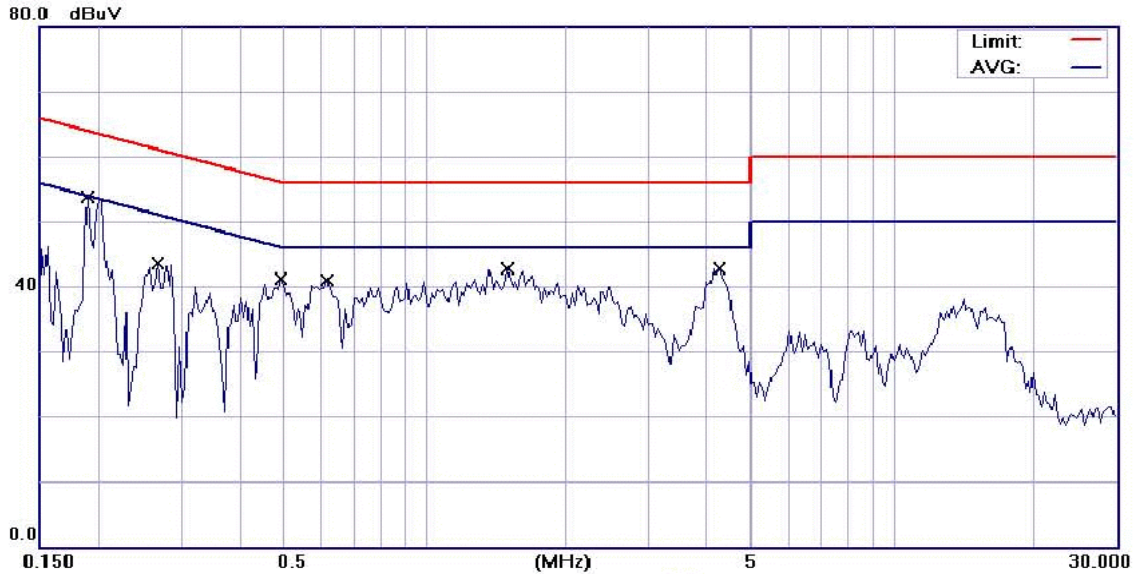
Temperature: 23 °C
Humidity: 60 %
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1904	42.46	0.15	42.61	64.02	-21.41	QP	
2		0.1904	32.22	0.15	32.37	54.02	-21.65	AVG	
3	*	0.2034	48.23	0.14	48.37	63.47	-15.10	QP	
4		0.2034	35.70	0.14	35.84	53.47	-17.63	AVG	
5		0.3321	35.27	0.12	35.39	59.40	-24.01	QP	
6		0.5870	34.20	0.10	34.30	56.00	-21.70	QP	
7		0.5870	27.28	0.10	27.38	46.00	-18.62	AVG	
8		1.5033	29.30	0.14	29.44	56.00	-26.56	QP	
9		1.5033	23.35	0.14	23.49	46.00	-22.51	AVG	
10		4.2242	33.75	0.17	33.92	56.00	-22.08	QP	
11		4.2242	25.48	0.17	25.65	46.00	-20.35	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 Link			Test Date:	Nov. 28, 2009
Temperature:	23 °C	Humidity:	60 %	Test By:	Jazz



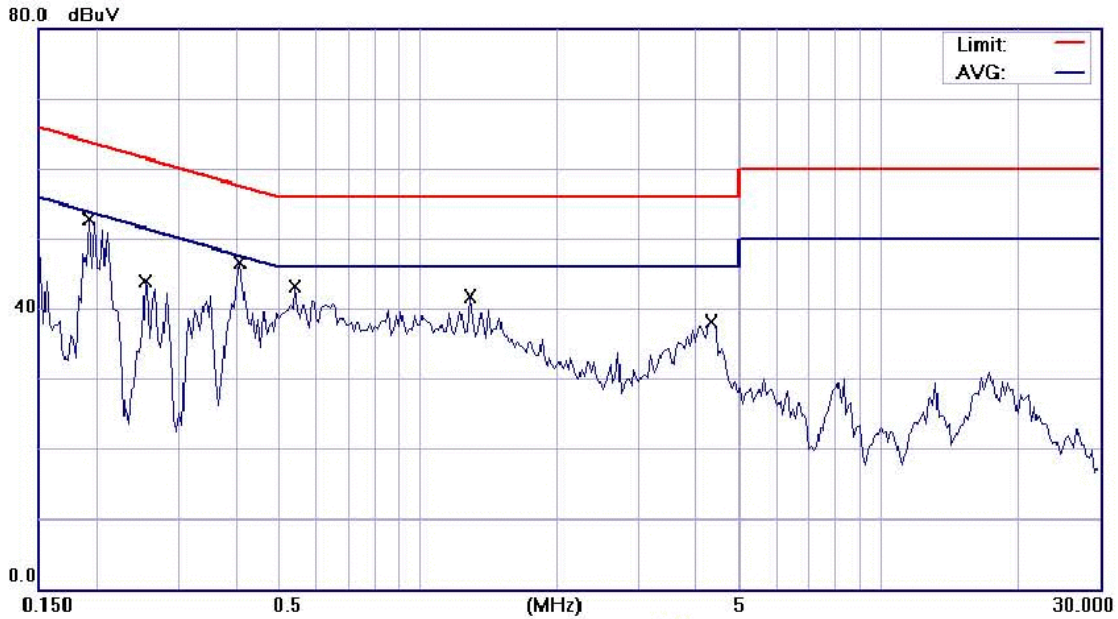
Site: SGS CONDUCTED #1
Limit: CISPR22/11 Class B Conduction(QP)
EUT: POS terminal
M/N: M81B
Note: GSM 1900 LINK

Phase: L1
Power: AC 120V/60Hz
Distance:

Temperature: 23 °C
Humidity: 60 %
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1904	47.16	0.13	47.29	64.02	-16.73	QP	
2		0.1904	28.69	0.13	28.82	54.02	-25.20	AVG	
3		0.2687	41.50	0.11	41.61	61.16	-19.55	QP	
4		0.2687	30.23	0.11	30.34	51.16	-20.82	AVG	
5		0.4941	38.08	0.07	38.15	56.10	-17.95	QP	
6		0.4941	25.09	0.07	25.16	46.10	-20.94	AVG	
7		0.6189	37.10	0.07	37.17	56.00	-18.83	QP	
8		0.6189	23.93	0.07	24.00	46.00	-22.00	AVG	
9		1.5033	35.36	0.11	35.47	56.00	-20.53	QP	
10		1.5033	29.12	0.11	29.23	46.00	-16.77	AVG	
11		4.2805	40.19	0.15	40.34	56.00	-15.66	QP	
12	*	4.2805	32.64	0.15	32.79	46.00	-13.21	AVG	

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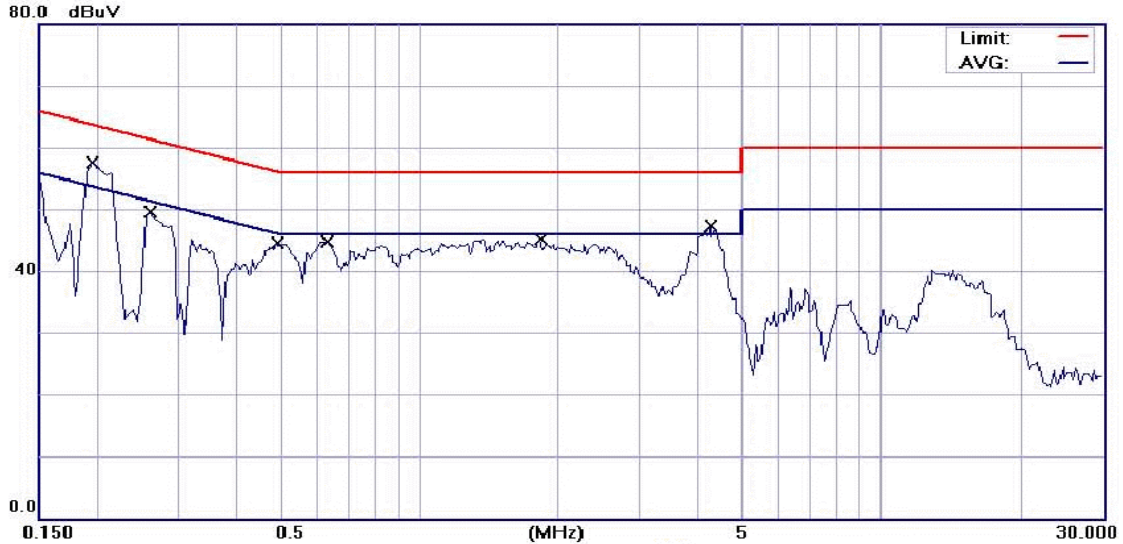
Site: SGS CONDUCTED #1	Phase: N	Temperature: 23 °C
Limit: CISPR22/11 Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 60 %
EUT: POS terminal	Distance:	Air Pressure: hpa
M/N: M81B		
Note: GSM 1900 LINK		

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1929	50.24	0.15	50.39	63.91	-13.52	QP	
2	*	0.1929	40.90	0.15	41.05	53.91	-12.86	AVG	
3		0.2548	37.43	0.13	37.56	61.60	-24.04	QP	
4		0.2548	22.81	0.13	22.94	51.60	-28.66	AVG	
5		0.4105	39.19	0.11	39.30	57.64	-18.34	QP	
6		0.4105	30.27	0.11	30.38	47.64	-17.26	AVG	
7		0.5421	39.47	0.10	39.57	56.00	-16.43	QP	
8		0.5421	29.12	0.10	29.22	46.00	-16.78	AVG	
9		1.2995	36.11	0.13	36.24	56.00	-19.76	QP	
10		1.2995	27.81	0.13	27.94	46.00	-18.06	AVG	
11		4.3376	36.08	0.17	36.25	56.00	-19.75	QP	
12		4.3376	29.41	0.17	29.58	46.00	-16.42	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

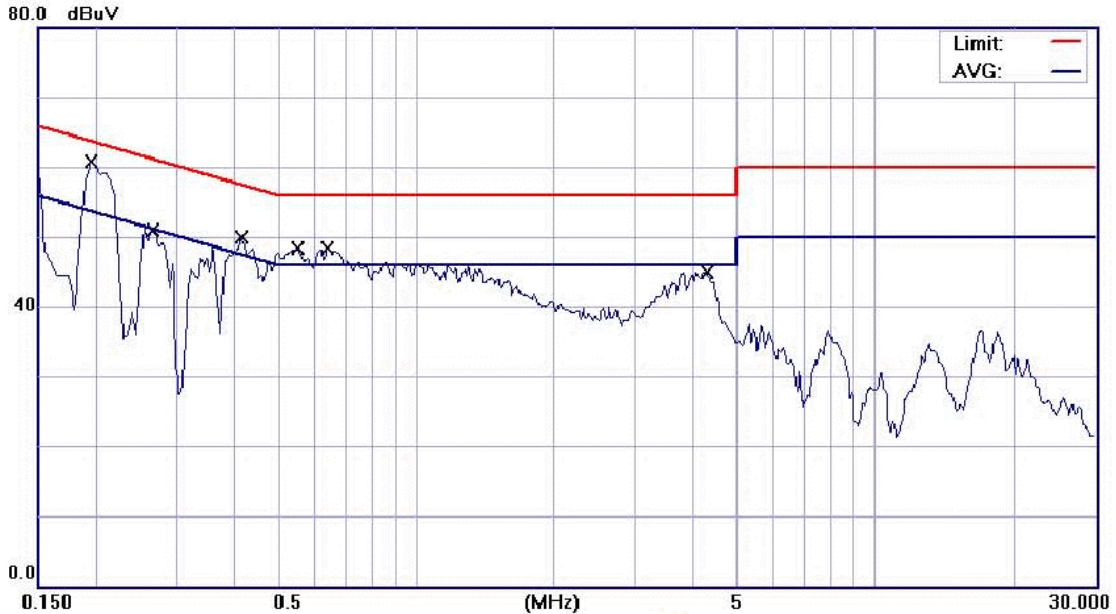
Operation Mode:	EGPS 850 LINK	Test Date:	Nov. 28, 2009
Temperature:	23 °C	Humidity:	60 %
		Test By:	Jazz



Site: SGS CONDUCTED #1	Phase: L1	Temperature: 23 °C
Limit: CISPR22/11 Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 60 %
EUT: POS terminal	Distance:	Air Pressure: hpa
MN: M81B		
Note: EDGE 850 LINK		

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1950	53.60	0.13	53.73	63.82	-10.09	QP	
2		0.1950	39.30	0.13	39.43	53.82	-14.39	AVG	
3		0.2600	44.80	0.11	44.91	61.43	-16.52	QP	
4		0.2600	32.40	0.11	32.51	51.43	-18.92	AVG	
5		0.4900	40.40	0.07	40.47	56.17	-15.70	QP	
6		0.4900	28.80	0.07	28.87	46.17	-17.30	AVG	
7		0.6300	41.30	0.08	41.38	56.00	-14.62	QP	
8		0.6300	29.30	0.08	29.38	46.00	-16.62	AVG	
9		1.8200	39.80	0.12	39.92	56.00	-16.08	QP	
10		1.8200	29.50	0.12	29.62	46.00	-16.38	AVG	
11		4.2800	41.80	0.15	41.95	56.00	-14.05	QP	
12		4.2800	31.20	0.15	31.35	46.00	-14.65	AVG	

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Site: SGS CONDUCTED #1
Limit: CISPR22/11 Class B Conduction(QP)
EUT: POS terminal
MN: M81B
Note: EDGE 850 LINK

Phase: N
Power: AC 120V/60Hz
Distance:

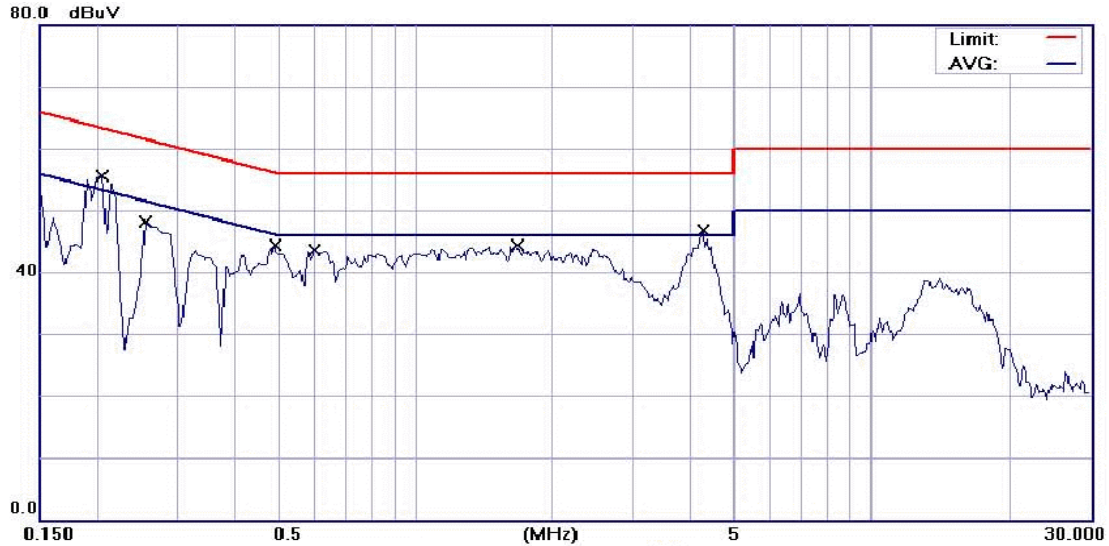
Temperature: 23 °C
Humidity: 60 %
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1950	55.80	0.15	55.95	63.82	-7.87	QP	
2		0.1950	45.30	0.15	45.45	53.82	-8.37	AVG	
3		0.2650	46.70	0.13	46.83	61.27	-14.44	QP	
4		0.2650	31.90	0.13	32.03	51.27	-19.24	AVG	
5		0.4150	45.60	0.11	45.71	57.55	-11.84	QP	
6		0.4150	34.70	0.11	34.81	47.55	-12.74	AVG	
7		0.5500	45.40	0.10	45.50	56.00	-10.50	QP	
8		0.5500	33.60	0.10	33.70	46.00	-12.30	AVG	
9		0.6400	44.90	0.11	45.01	56.00	-10.99	QP	
10		0.6400	34.50	0.11	34.61	46.00	-11.39	AVG	
11		4.3000	39.50	0.17	39.67	56.00	-16.33	QP	
12		4.3000	28.40	0.17	28.57	46.00	-17.43	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

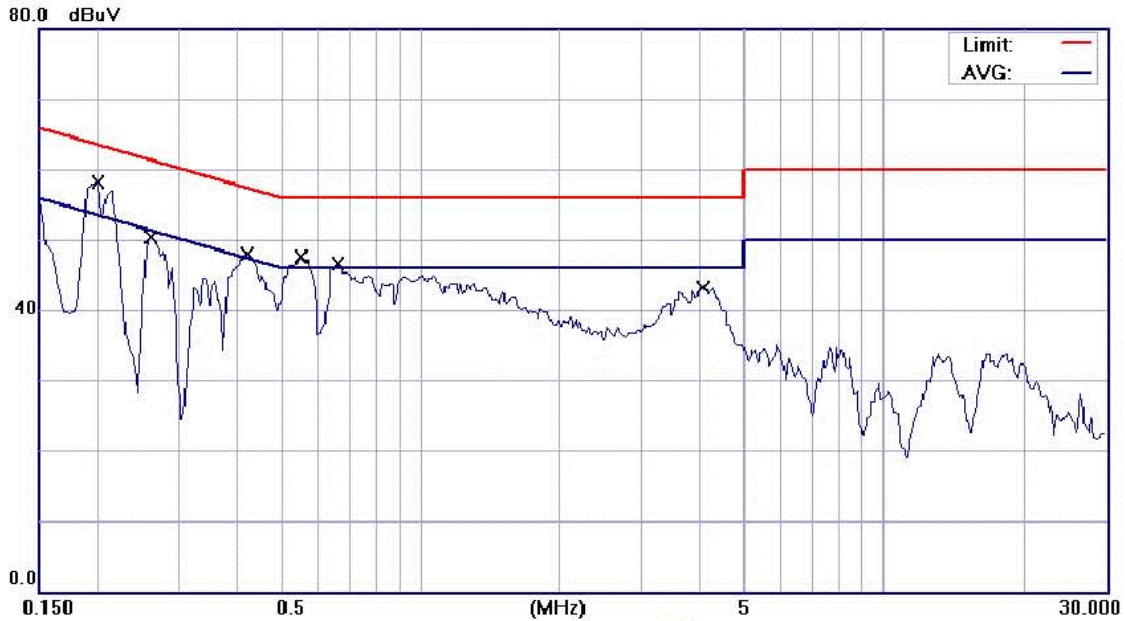
Operation Mode:	EGPS 1900 Link	Test Date:	Nov. 28, 2009
Temperature:	23 °C	Humidity:	60 %
		Test By:	Jazz



Site: SGS CONDUCTED #1	Phase: L1	Temperature: 23 °C
Limit: CISPR22/11 Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 60 %
EUT: POS terminal	Distance:	Air Pressure: hpa
MN: M81B		
Note: EDGE 1900 LINK		

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.2050	51.90	0.12	52.02	63.41	-11.39	QP	
2		0.2050	39.20	0.12	39.32	53.41	-14.09	AVG	
3		0.2550	43.90	0.11	44.01	61.59	-17.58	QP	
4		0.2550	29.50	0.11	29.61	51.59	-21.98	AVG	
5		0.4900	39.70	0.07	39.77	56.17	-16.40	QP	
6		0.4900	28.10	0.07	28.17	46.17	-18.00	AVG	
7		0.6000	39.80	0.07	39.87	56.00	-16.13	QP	
8		0.6000	27.60	0.07	27.67	46.00	-18.33	AVG	
9		1.6700	39.50	0.12	39.62	56.00	-16.38	QP	
10		1.6700	28.70	0.12	28.82	46.00	-17.18	AVG	
11		4.2800	41.10	0.15	41.25	56.00	-14.75	QP	
12		4.2800	30.50	0.15	30.65	46.00	-15.35	AVG	

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Site: SGS CONDUCTED #1
Limit: CISPR22/11 Class B Conduction(QP)
EUT: POS terminal
M/N: M81B
Note: EDGE 1900 LINK

Phase: **N**
Power: AC120V/60Hz
Distance:

Temperature: 23 °C
Humidity: 60 %
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.2000	54.70	0.12	54.82	63.61	-8.79	QP	
2		0.2000	44.50	0.12	44.62	53.61	-8.99	AVG	
3		0.2600	46.00	0.11	46.11	61.43	-15.32	QP	
4		0.2600	32.30	0.11	32.41	51.43	-19.02	AVG	
5		0.4200	44.50	0.08	44.58	57.45	-12.87	QP	
6		0.4200	33.70	0.08	33.78	47.45	-13.67	AVG	
7		0.5500	44.20	0.07	44.27	56.00	-11.73	QP	
8		0.5500	32.50	0.07	32.57	46.00	-13.43	AVG	
9		0.6600	43.60	0.08	43.68	56.00	-12.32	QP	
10		0.6600	33.30	0.08	33.38	46.00	-12.62	AVG	
11		4.0700	38.10	0.15	38.25	56.00	-17.75	QP	
12		4.0700	28.00	0.15	28.15	46.00	-17.85	AVG	

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13. SPURIOUS RADIATED EMISSION TEST (RX)

13.1 Standard Applicable

According to RSS 132 §4.6, all spurious emissions shall comply with the limits of Table 2. The resolution bandwidth of the spectrum analyzer shall be 100 kHz for spurious emissions measurements below 1.0 GHz, and 1.0 MHz for measurements above 1.0 GHz.

Frequency (MHz)	Field strength $\mu\text{V}/\text{m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V}/\text{m}$
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

According to RSS 133 §6.6, Receiver spurious emissions shall comply with the limits specified in RSS-Gen.

13.2 EUT Setup

1. The radiated emission tests were performed in the 3 meter open-test site, using the setup in accordance with the ANSI C63.4-2003.
2. The EUT was put in the front of the test table. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The spacing between the peripherals was 10 centimeters.
4. External I/O cables were draped along the edge of the test table and bundle when necessary.
5. The host was connected with 110Vac/60Hz power source.

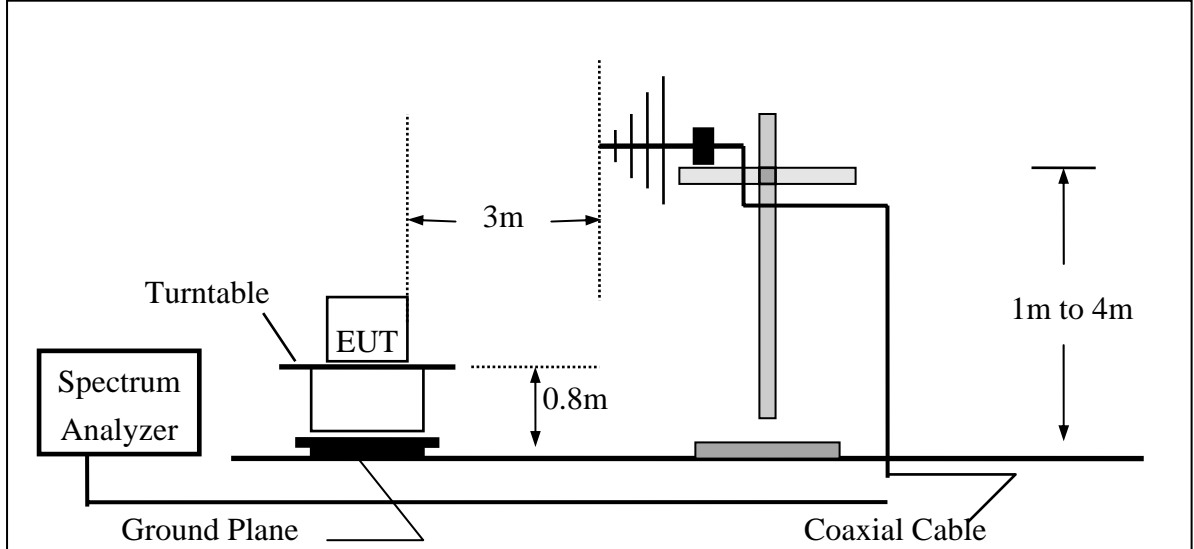
13.3 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Repeat above procedures until all frequency measured were complete.

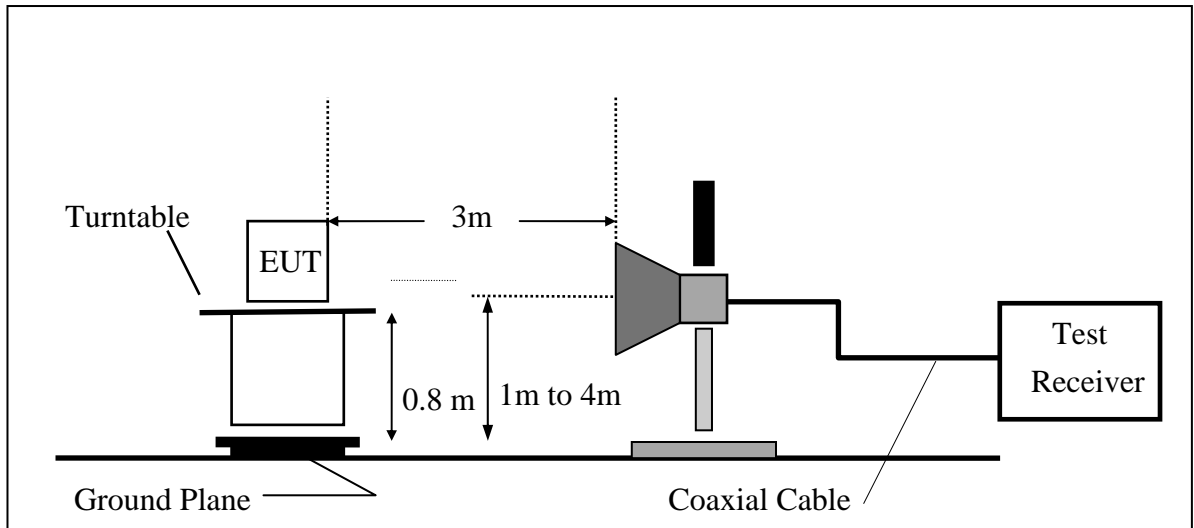
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13.4 Test SET-UP (Block Diagram of Configuration)

Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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13.5 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2009	02/11/2010
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2009	11/14/2010
Hor.n antenna	SCHWAZBECK	BBHA 9120D	309	01/22/2008	01/21/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2009	11/29/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2009	07/04/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/208	05/12/2010
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2009	01/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2009	01/04/2010
3m Site	SGS	966 chamber	N/A	11/08/2009	11/09/2010

13.6 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

13.7 Measurement Result

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	GSM 850 CH Low	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Ant./CL/ Amp. CF(dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	44.36	-16.87	27.49	43.50	-16.01
153.19	V	Peak	32.40	-13.00	19.40	43.50	-24.10
349.13	V	Peak	31.93	-11.82	20.11	46.00	-25.89
478.14	V	Peak	31.87	-8.56	23.31	46.00	-22.69
606.18	V	Peak	33.38	-5.88	27.50	46.00	-18.50
868.08	V	Peak	32.76	-1.63	31.13	46.00	-14.87
75.59	H	Peak	44.22	-17.13	27.09	40.00	-12.91
90.14	H	Peak	41.87	-17.62	24.25	43.50	-19.25
208.48	H	Peak	35.89	-15.32	20.57	43.50	-22.93
387.93	H	Peak	35.35	-10.41	24.94	46.00	-21.06
475.23	H	Peak	33.35	-8.56	24.79	46.00	-21.21
649.83	H	Peak	37.63	-4.95	32.68	46.00	-13.32

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/AV detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	GSM 850 CH Mid	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Ant./CL/ Amp. CF(dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	45.02	-16.87	28.15	43.50	-15.35
162.89	V	Peak	33.45	-13.57	19.88	43.50	-23.62
320.03	V	Peak	33.49	-12.55	20.94	46.00	-25.06
429.64	V	Peak	32.15	-9.14	23.01	46.00	-22.99
480.08	V	Peak	32.52	-8.56	23.96	46.00	-22.04
644.98	V	Peak	32.56	-5.10	27.46	46.00	-18.54
75.59	H	Peak	44.33	-17.13	27.20	40.00	-12.80
94.99	H	Peak	40.76	-17.26	23.50	43.50	-20.00
218.18	H	Peak	34.60	-14.99	19.61	46.00	-26.39
264.74	H	Peak	34.79	-13.59	21.20	46.00	-24.80
387.93	H	Peak	37.22	-10.41	26.81	46.00	-19.19
649.83	H	Peak	34.87	-4.95	29.92	46.00	-16.08

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/AV detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	GSM 850 CH High	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Ant./CL/ Amp. CF(dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	45.73	-16.87	28.86	43.50	-14.64
153.19	V	Peak	32.98	-13.00	19.98	43.50	-23.52
286.08	V	Peak	32.62	-13.26	19.36	46.00	-26.64
431.58	V	Peak	32.04	-9.09	22.95	46.00	-23.05
657.59	V	Peak	32.79	-4.98	27.81	46.00	-18.19
834.13	V	Peak	32.48	-2.28	30.20	46.00	-15.80
75.59	H	Peak	43.34	-17.13	26.21	40.00	-13.79
94.99	H	Peak	41.56	-17.26	24.30	43.50	-19.20
208.48	H	Peak	35.21	-15.32	19.89	43.50	-23.61
293.84	H	Peak	33.41	-13.19	20.22	46.00	-25.78
387.93	H	Peak	38.57	-10.41	28.16	46.00	-17.84
649.83	H	Peak	37.77	-4.95	32.82	46.00	-13.18

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/AV detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM 850 CH Low	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant/CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Peak
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1648.4	35.61	---	-5.22	30.39	---	74.00	54.00	-23.61	Peak
2472.6	--								
3296.8	--								
4121.0	--								
4945.2	--								
5769.4	--								
6593.6	--								
7417.8	--								
8242.0	--								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM 850 CH Low	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1648.4	35.64	---	-5.22	30.42	---	74.00	54.00	-23.58	Peak
2472.6	--								
3296.8	--								
4121.0	--								
4945.2	--								
5769.4	--								
6593.6	--								
7417.8	--								
8242.0	--								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM 850 CH Mid	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Peak
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1673.2	34.89	---	-5.04	29.85	---	74.00	54.00	-24.15	Peak
2509.8	--								
3346.4	--								
4183.0	--								
5019.6	--								
5856.2	--								
6692.8	--								
7529.4	--								
8366.0	--								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM 850 CH Mid	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Peak
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1673.2	35.28	---	-5.04	30.24	---	74.00	54.00	-23.76	
2509.8	--								
3346.4	--								
4183.0	--								
5019.6	--								
5856.2	--								
6692.8	--								
7529.4	--								
8366.0	--								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM 850 CH High	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Peak
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1697.6	35.04	---	-4.96	30.08	---	74.00	54.00	-23.92	Peak
2546.4	--								
3395.2	--								
4244.0	--								
5092.8	--								
5941.6	--								
6790.4	--								
7639.2	--								
8488.0	--								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM 850 CH High	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Peak
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1697.6	35.41	---	-4.96	30.45	---	74.00	54.00	-23.55	Peak
2546.4	--								
3395.2	--								
4244.0	--								
5092.8	--								
5941.6	--								
6790.4	--								
7639.2	--								
8488.0	--								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	PCS 1900 CH Low	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Ant./CL/ Amp. CF(dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
30.00	V	Peak	42.60	-14.97	27.63	40.00	-12.37
101.78	V	Peak	42.89	-16.87	26.02	43.50	-17.48
153.19	V	Peak	33.59	-13.00	20.59	43.50	-22.91
410.24	V	Peak	31.59	-9.64	21.95	46.00	-24.05
594.54	V	Peak	33.68	-6.18	27.50	46.00	-18.50
834.13	V	Peak	33.16	-2.28	30.88	46.00	-15.12
75.59	H	Peak	43.19	-17.13	26.06	40.00	-13.94
208.48	H	Peak	37.98	-15.32	22.66	43.50	-20.84
295.78	H	Peak	34.69	-13.17	21.52	46.00	-24.48
390.84	H	Peak	35.63	-10.31	25.32	46.00	-20.68
419.94	H	Peak	34.83	-9.39	25.44	46.00	-20.56
649.83	H	Peak	35.77	-4.95	30.82	46.00	-15.18

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/AV detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	PCS 1900 CH Mid	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Ant./CL/ Amp. CF(dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	44.36	-16.87	27.49	43.50	-16.01
153.19	V	Peak	33.71	-13.00	20.71	43.50	-22.79
329.73	V	Peak	33.06	-12.24	20.82	46.00	-25.18
417.03	V	Peak	32.75	-9.46	23.29	46.00	-22.71
615.88	V	Peak	33.18	-5.70	27.48	46.00	-18.52
875.84	V	Peak	33.49	-1.51	31.98	46.00	-14.02
75.59	H	Peak	43.81	-17.13	26.68	40.00	-13.32
90.14	H	Peak	42.00	-17.62	24.38	43.50	-19.12
159.98	H	Peak	32.88	-13.40	19.48	43.50	-24.02
240.49	H	Peak	35.24	-14.11	21.13	46.00	-24.87
390.84	H	Peak	36.06	-10.31	25.75	46.00	-20.25
647.89	H	Peak	34.12	-4.99	29.13	46.00	-16.87

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/AV detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	PCS 1900 CH High	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Ant./CL/ Amp. CF(dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	43.95	-16.87	27.08	43.50	-16.42
153.19	V	Peak	33.78	-13.00	20.78	43.50	-22.72
361.74	V	Peak	31.53	-11.33	20.20	46.00	-25.80
455.83	V	Peak	32.31	-8.61	23.70	46.00	-22.30
643.04	V	Peak	32.97	-5.14	27.83	46.00	-18.17
872.93	V	Peak	32.87	-1.56	31.31	46.00	-14.69
75.59	H	Peak	45.73	-17.13	28.60	40.00	-11.40
94.99	H	Peak	40.93	-17.26	23.67	43.50	-19.83
211.39	H	Peak	35.96	-15.22	20.74	43.50	-22.76
390.84	H	Peak	35.39	-10.31	25.08	46.00	-20.92
453.89	H	Peak	33.62	-8.60	25.02	46.00	-20.98
649.83	H	Peak	34.06	-4.95	29.11	46.00	-16.89

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/AV detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	PCS 1900 CH Low	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Peak
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3700.4	35.30	---	6.80	42.10	---	74.00	54.00	-11.90	Peak
5550.6	--								
7400.8	--								
9251.0	--								
11101.2	--								
12951.4	--								
14801.6	--								
16651.8	--								
18502.0	--								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	PCS 1900 CH Low	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Peak
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3700.4	34.98	---	2.66	37.64	---	74.00	54.00	-16.36	Peak
5550.6	--								
7400.8	--								
9251.0	--								
11101.2	--								
12951.4	--								
14801.6	--								
16651.8	--								
18502.0	--								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	PCS 1900 CH Mid	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Peak
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3760.0	35.14	---	2.88	38.02	---	74.00	54.00	-15.98	Peak
5640.0	--								
7520.0	--								
9400.0	--								
11280.0	--								
13160.0	--								
15040.0	--								
16920.0	--								
18800.0	--								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	PCS 1900 CH Mid	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Peak
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3760.0	34.17	---	2.88	37.05	---	74.00	54.00	-16.95	Peak
5640.0	--								
7520.0	--								
9400.0	--								
11280.0	--								
13160.0	--								
15040.0	--								
16920.0	--								
18800.0	--								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	PCS 1900 CH High	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Peak
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3819.6	34.51	---	3.09	37.60	---	74.00	54.00	-16.40	Peak
5729.4	--								
7639.2	--								
9549.0	--								
11458.8	--								
13368.6	--								
15278.4	--								
17188.2	--								
19098.0	--								

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	PCS 1900 CH High	Test Date	Nov. 28, 2009
Fundamental Frequency	N/A	Test By	Jazz
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
3819.6	33.70	---	3.09	36.79	---	74.00	54.00	-17.21
5729.4	--							
7639.2	--							
9549.0	--							
11458.8	--							
13368.6	--							
15278.4	--							
17188.2	--							
19098.0	--							

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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14. Maximum Permissible Exposure (MPE)

14.1 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section Part 22, subpart H and Part 24, subpart E of the FCC CFR 47 Rules. For 47 CFR 1.1310 Radio frequency Radiation Exposure requirement.

14.2 Special Accessories

Not available for this EUT intended for grant.

14.3 Equipment Modifications

Not available for this EUT intended for grant.

14.4 Limitation

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

14.5 Maximum Permissible Exposure (MPE) Evaluation

In this application we seek approval to the iPA280. Based on the FCC OET Bulletin 65 Supplement C and 47 CFR §2.1091, we have concluded that the Quki Q2687 module will comply with the FCC rules on RF exposure for mobile devices in cellular band and PCS band. The following analysis will demonstrate such compliance. The analysis will be done in two US bands.

Operation in cellular band (824 – 849 MHz)

The ERP of TD-3261G in cellular band is 32.94dBm max at GSM/GPRS mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GSM 850	824.20	128	H	V	123.15	36.76	-7.87	3.62	25.26	38.45
				H	129.53	43.26	-7.87	3.62	31.76	38.45
			E1	V	126.96	40.57	-7.87	3.62	29.07	38.45
				H	122.52	36.25	-7.87	3.62	24.75	38.45
			E2	V	119.73	33.34	-7.87	3.62	21.84	38.45
				H	130.71	44.44	-7.87	3.62	32.94	38.45
	836.60	190	H	V	122.35	36.10	-7.88	3.65	24.57	38.45
				H	129.03	42.80	-7.88	3.65	31.27	38.45
			E1	V	126.44	40.19	-7.88	3.65	28.66	38.45
				H	122.65	36.42	-7.88	3.65	24.89	38.45
			E2	V	119.68	33.43	-7.88	3.65	21.90	38.45
				H	130.33	44.10	-7.88	3.65	32.57	38.45
	848.80	251	H	V	120.67	34.55	-7.88	3.68	22.99	38.45
				H	127.18	40.99	-7.88	3.68	29.43	38.45
			E1	V	125.39	39.27	-7.88	3.68	27.71	38.45
				H	121.88	35.69	-7.88	3.68	24.13	38.45
			E2	V	129.47	43.35	-7.88	3.68	31.79	38.45
				H	119.01	32.82	-7.88	3.68	21.26	38.45

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$$\text{ERP} = 32.94 \text{ dBm} = 1967.88629 \text{ mW}$$

$$\begin{aligned} \text{Power Density} &= \text{ERP} * \text{Duty Cycle} / (4 \pi R^2) \\ &= 1967.89 * 0.25 / (4 * \pi * 20^2) = 0.098 \text{ mW/cm}^2 \end{aligned}$$

where Duty Cycle is 0.25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

$$\text{MPE limit} = 824/1500 = 0.55 \text{ mW/cm}^2$$

As we can see the resulted power density is below the MPE limit, therefore iPA280. in cellular band is compliant with the FCC rules on RF exposure.

Operation in PCS band (1850 – 1910 MHz)

The EIRP of TD-3261G in PCS band is 29.30 dBm. max. The resulted EIRP can be expressed as follows:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
PCS 1900	1850.20	512	H	V	120.88	16.49	9.90	5.56	20.83	33.00
				H	125.34	21.16	9.90	5.56	25.50	33.00
			E1	V	125.91	21.52	9.90	5.56	25.86	33.00
				H	127.01	22.83	9.90	5.56	27.17	33.00
			E2	V	126.45	22.06	9.90	5.56	26.40	33.00
				H	126.25	22.07	9.90	5.84	26.13	33.00
	1880.00	661	H	V	119.71	15.35	9.99	5.61	19.73	33.00
				H	124.99	20.85	9.99	5.61	25.22	33.00
			E1	V	125.66	21.30	9.99	5.61	25.68	33.00
				H	129.07	24.93	9.99	5.61	29.30	33.00
			E2	V	125.34	20.98	9.99	5.61	25.36	33.00
				H	126.02	21.88	9.99	5.61	26.25	33.00
	1909.80	810	H	V	117.04	12.71	10.08	5.66	17.13	33.00
				H	123.29	19.18	10.08	5.66	23.60	33.00
			E1	V	125.01	20.68	10.08	5.66	25.10	33.00
				H	126.58	22.47	10.08	5.66	26.89	33.00
			E2	V	126.87	22.54	10.08	5.66	26.96	33.00
				H	126.73	22.62	10.08	5.66	27.04	33.00

$$\text{EIRP} = 29.30 \text{ dBm} = 851.138038 \text{ mW}$$

$$\begin{aligned} \text{Power Density} &= \text{EIRP} \cdot \text{Duty Cycle} / (4 \pi R^2) \\ &= 851.138 \cdot 0.25 / (4 \pi \cdot 20^2) = 0.0113 \text{ mW/cm}^2 \end{aligned}$$

where Duty Cycle is 0.25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

$$\text{MPE limit} = 1.0 \text{ mW/cm}^2$$

As we can see the resulted power density is below the MPE limit, therefore iPA280. in PCS band is compliant with the FCC rules on RF exposure.

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