

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: Mobile Phone
Brand Name: Sony
Marketing Name: ST23i
Model No.: PM-0180-BV
Model Difference: N/A
FCC ID: PY7PM-0180
IC: 4170B-PM0180
Report No.: EH/2012/40028
Issue Date: Jul. 20, 2012
FCC Rule Part: 2, 22H & 24E
IC Rule Part: RSS 132, Issue 2 and RSS 133, Issue 5
Prepared for: Sony Mobile Communications AB
Nya Vattentornet 22188 Lund/SWEDEN
SGS Taiwan Ltd.
Prepared by: Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial
Zone, Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Applicant: Sony Mobile Communications AB
Nya Vattentornet 22188 Lund/SWEDEN

Product Name: Mobile Phone

Brand Name: Sony

Marketing Name: ST23i

Model No.: PM-0180-BV

Model Difference: N/A

FCC ID: PY7PM-0180

IC: 4170B-PM0180

File Number: EH/2012/40028

Date of test: Apr. 17, 2012 ~ Jul. 12, 2012

Date of EUT Received: Apr. 17, 2012

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 3 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-132, Issue 5 of RSS-133.

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

Test By:

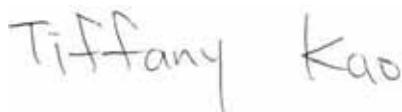


Date:

Jul. 20, 2012

Jay Lin / Engineer

Prepared By:

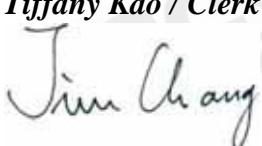


Date:

Jul. 20, 2012

Tiffany Kao / Clerk

Approved By:



Date:

Jul. 20, 2012

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	May. 28, 2012	Initial creation of document
01	Jul. 13, 2012	The Result of Conducted Test Item is updated in section 6-9, 11-12

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1. GENERAL PRODUCT INFORMATION

General:

Product Name:	Mobile Phone		
Brand Name:	Sony		
Marketing Name:	ST23i		
Model No.:	PM-0180-BV		
Model difference:	N/A		
Data Cable (USB):	Model No.: EC450, Supplier: K-one, Part No.: 1242-6715		
Simple Hands-free (SHF):	Model No.: MH410C, Supplier: Foster Electric Type No.: CCA-0004017		
Car Charger:	Model No.: AN400, Supplier: Salcomp, Type No.: CAA-0003013		
Power Supply:	3.7Vdc form Li-Ion battery or 5Vdc form adapter.		
	Battery:	1. Model No.: BA700, Supplier: LG Type No.: CBA-0002025 2. Model No.: BA700, Supplier: Samsung Type No.: CBA-0002026	
	Adapter :	1. Model No.: EP800, Supplier: Salcomp Type No.: CAA-0002016-US, CAA-0002016-BV 2. Model No.: EP800, Supplier: EMERSON Type No.: CAA-0002022-US, CAA-0002022-BV	

GSM/GPRS:

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	GSM/GPRS 850, Class 12	824 MHz– 849MHz	33 dBm
	EDGE 850, Class 12	824 MHz– 849MHz	33 dBm
	GSM/GPRS 1900, Class 12	1850MHz – 1910MHz	30 dBm
	EDGE 1900, Class 12	1850MHz – 1910MHz	30 dBm
Type of Emission	GSM 850: 247KGXW, GSM 1900: 246KGXW GPRS 850: 251KGXW, GPRS 1900: 243KGXW EDGE 850: 247KG7W, EDGE 1900: 244KG7W		
Hardware Version:	A		
Software Version:	2.3.J.3.8_userdebug		
IMEI:	004402145494492		

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

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Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.7 Vdc	330
GSM 1900	3.7 Vdc	230
GPRS 850	3.7 Vdc	300
GPRS 1900	3.7 Vdc	200
EDGE 850	3.7 Vdc	180
EDGE 1900	3.7 Vdc	150

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1.1. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: PY7PM-0180** filing to comply with Section Part 22 subpart H, Part 24 subpart E of the FCC CFR 47 Rules and **IC: 4170B-PM0180** filing to comply with Issue 2 of RSS-132, Issue 5 of RSS-133.

1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, issue 2 of RSS-132 and issue 3 of RSS-133..

1.3. 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-4

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).

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. Equipment Modifications

Not available for this EUT intended for grant.

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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 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C, 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.

2.3.2 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C and RSS-Gen Issue 3, The EUT is placed on a turn table which is 0.8 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 and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13 of ANSI C63.4:2003.

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2.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Sensor	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014
Power Meter	Anritsu	MA2411B	917032	02/08/2012	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
Spectrum Analyzer	Agilent	E4440A	US41160416	03/17/2012	03/16/2014
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2010	08/11/2012
WIDEB. RADIO COMIN. TESTER	R & S	CMW500	101582	07/12/2010	07/11/2012
Temperature Chamber	TERCHY	MHG-120LF	911009	04/16/2012	04/15/2014
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2012	02/27/2013
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2012	02/27/2013
Splitter	Agilent	11636B	N/A	02/28/2012	02/27/2013
DC Power Supply	Agilent	E3640A	MY40005907	07/15/2011	07/14/2013

Conducted Emission Test Site – Equipments Calibrated During the Test					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
WIDEB. RADIO COMIN. TESTER	R & S	CMW500	101582	07/11/2012	07/10/2014

Remark: Please note that the duration to conduct the test took place in the mean time when the calibration for several equipments is due, and therefore extra tables of equipment calibration is constructed to indicate the calibration work is still maintained.

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/15/2011	02/14/2013
Spectrum Analyzer	R&S	FSV-30	101398	10/18/2011	10/17/2013
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/10/2012	01/09/2014
Bilog Antenna	SCHWAZBECK	VULB9160	3158	11/24/2011	11/23/2013
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/17/2010	07/16/2012
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/17/2010	07/16/2012
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2011	05/18/2013
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2011	05/18/2013
Horn Antenna	Schwarzbeck	BBHA9170	184	01/17/2012	01/17/2014
Horn Antenna	Schwarzbeck	BBHA9170	185	07/11/2011	07/10/2013
RF amplifier	Miteq	AMF-6F-2600 400-40-8P	971576	12/28/2011	12/27/2012
Signal Generator	R&S	SMR40	100210	02/02/2012	02/01/2014
Signal Generator	Agilent	E4438C	MY45093613	07/15/2011	07/14/2013
Pre-Amplifier	Agilent	8447D	1937A02834	01/04/2012	01/03/2013
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2012	01/03/2013
Attenuator	Mini-Circuit	BW-S10W2+	004	02/28/2012	02/27/2013
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2010	08/11/2012
WIDEB. RADIO COMIN. TESTER	R & S	CMW500	101582	07/12/2010	07/11/2012
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	966_Tx	10m	01/04/2012	01/03/2013
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/04/2012	01/03/2013
Filter 800-1000	Micro-Tronics	EWT	M2	05/25/2011	05/24/2013
Filter 1800-2000	Micro-Tronics	EWT	M2	05/25/2011	05/24/2013
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/28/2012	02/27/2013
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/28/2012	02/27/2013
3m Site NSA	SGS	966 chamber	N/A	07/15/2011	07/14/2012

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
WIDEB. RADIO COMIN. TESTER	R & S	CMW500	101582	07/11/2012	07/10/2014

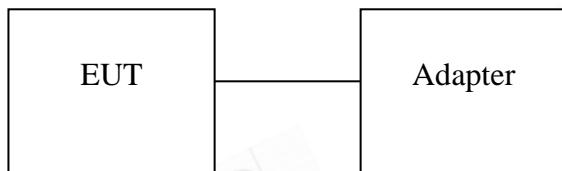
Remark: Please note that the duration to conduct the test took place in the mean time when the calibration for several equipments is due, and therefore extra tables of equipment calibration is constructed to indicate the calibration work is still maintained.

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2.5. Configuration of Tested System

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



Remote Side

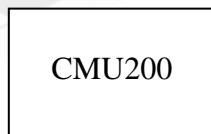


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Adapter	Salcomp / EMERSON	EP800	N/A	shielded	Un-shielded
2.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	N/A	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c)	§4.8 (RSS-Gen Issue 3) §4.4 (RSS-132) §6.4 (RSS-133)	ERP/ EIRP measurement	Compliant
§2.1049(h)	§4.6.1 (RSS-Gen Issue 3) §2.3 (RSS-133)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a)	§4.9 (RSS-Gen Issue 3) §4.5 (RSS-132) §6.5 (RSS-133)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a)	§4.9 (RSS-Gen Issue 3) §4.5 (RSS-132) §6.5 (RSS-133)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1) §22.355 §24.235	§4.7 (RSS-Gen Issue 3) §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 Issue 3) §4.3 (RSS-132) §6.3 (RSS-133)	Frequency Stability vs. Voltage	Compliant
N/A	§4.10 (RSS-Gen Issue 3) §4.6 (RSS-132) §6.6 (RSS-133)	Receiver Spurious Emissions	N/A

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Max ERP/EIRP measurement result:

	dBm		W
GSM 850 Band	27.24	ERP	0.530
GSM 1900 Band	30.94	EIRP	1.242
GPRS 850 Band	27.21	ERP	0.526
GPRS 1900 Band	32.45	EIRP	1.758
EDGE 850 Band	26.62	ERP	0.459
EDGE 1900 Band	30.41	EIRP	1.099

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/GPRS/EDGE with power adaptor. The worst-case of E2 position for GSM 850, E1 position for GPRS 1900 were reported.

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5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: 3.37dB
	180MHz -417MHz: 3.19dB
	0.417GHz-1GHz: 3.19dB
	1GHz - 18GHz: 4.04dB
	18GHz - 40GHz: 4.04dB
Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: 4.22dB
	167MHz -500MHz: 3.44dB
	0.5GHz-1GHz: 3.39dB
	1GHz - 18GHz: 4.08dB
	18GHz - 40GHz: 4.08dB

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6. RF POWER OUTPUT MEASUREMENT

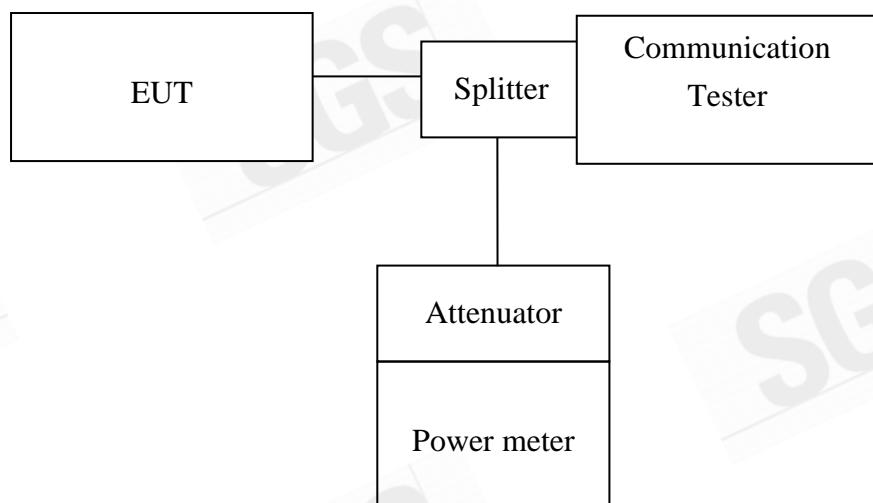
6.1 Standard Applicable:

According to FCC §2.1046.

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

FCC 24.232(C) Peak Power Measurement to 2W.

6.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

6.3 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.

6.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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6.5 Measurement Result:

6.5.1 RF Conducted Output Power

6.5.1.1. GSM/GPRS/EDGE (GMSK; 8-PSK)

Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
GSM 850	824.2	128	34.00	33.90
	836.6	190	34.30	34.10
	848.8	251	34.50	34.30

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
GSM 1900	1850.2	512	32.00	31.80
	1880.0	661	31.40	31.20
	1909.8	810	31.10	30.90

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 850	824.2	128	34.40	34.20	30.10	30.00
	836.6	190	34.60	34.50	30.00	29.90
	848.8	251	34.60	34.50	30.10	29.90

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 11 (dBm)	Average Burst Power (4DN 3UP) Cass 11 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	28.90	28.70	28.80	28.60
	836.6	190	28.90	28.70	28.80	28.70
	848.8	251	28.90	28.70	28.90	28.60

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EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 1900	1850.2	512	32.00	31.80	29.20	29.00
	1880.0	661	31.60	31.40	28.90	28.70
	1909.8	810	31.00	30.80	28.50	28.30

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 11 (dBm)	Average Burst Power (4DN 3UP) Cass 11 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
GPRS 1900	1850.2	512	28.20	28.10	27.30	27.10
	1880.0	661	28.00	27.80	26.90	26.80
	1909.8	810	27.50	27.30	26.60	26.40

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
EDGE 850	824.2	128	27.80	27.60	26.80	26.60
	836.6	190	27.80	27.60	26.80	26.60
	848.8	251	27.60	27.50	26.70	26.50

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 11 (dBm)	Average Burst Power (4DN 3UP) Cass 11 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
EDGE 850	824.2	128	26.60	26.40	26.40	26.20
	836.6	190	26.70	26.50	26.50	26.30
	848.8	251	26.50	26.40	26.50	26.30

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EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
EDGE 1900	1850.2	512	27.30	27.10	26.50	26.30
	1880.0	661	27.00	26.80	26.00	25.90
	1909.8	810	26.80	26.60	25.90	25.70

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 11 (dBm)	Average Burst Power (4DN 3UP) Cass 11 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
EDGE 1900	1850.2	512	26.40	26.20	26.20	26.00
	1880.0	661	26.00	25.90	26.00	25.90
	1909.8	810	25.90	25.70	25.90	25.70

Cable loss offset Low Band: 0.5 dB

Cable loss offset High Band: 0.7 dB

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6.5.2. Minimum Communications Power Measurement**PCS 1900 band**

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	31.20	29.00	26.90	24.70	22.50	20.20	18.40	16.30	14.30
<hr/>									
PCL	9	10	11	12	13	14	15		
Output power (dBm)	12.30	10.40	8.30	6.30	4.30	2.40	0.30		

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

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7. ERP, EIRP MEASUREMENT

7.1. Standard Applicable:

According to FCC §2.1046

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

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

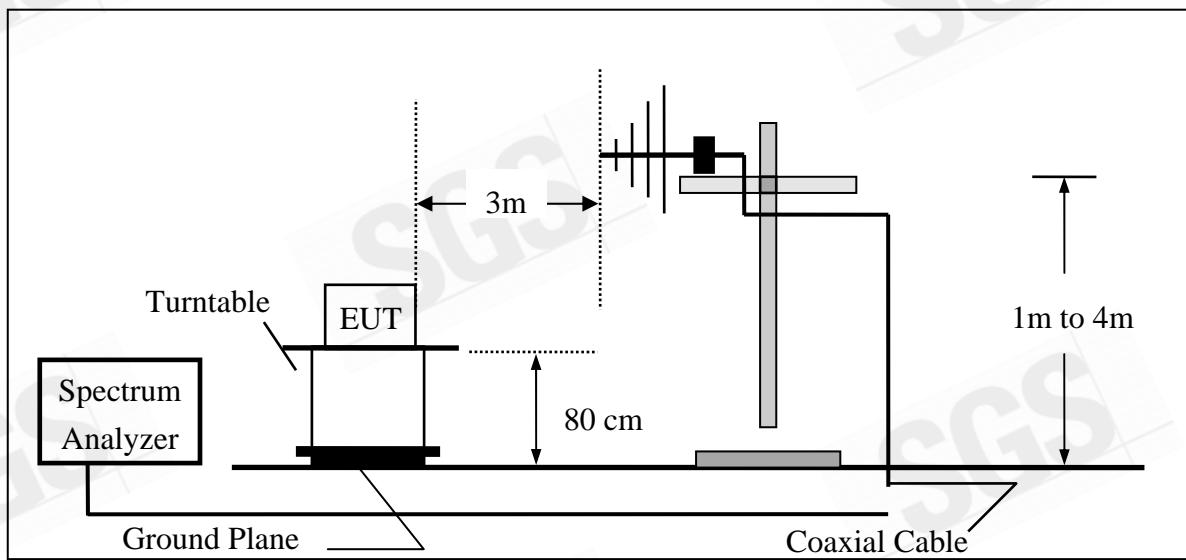
According to IC RSS-133 §6.4

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.

7.2. Test SET-UP (Block Diagram of Configuration):

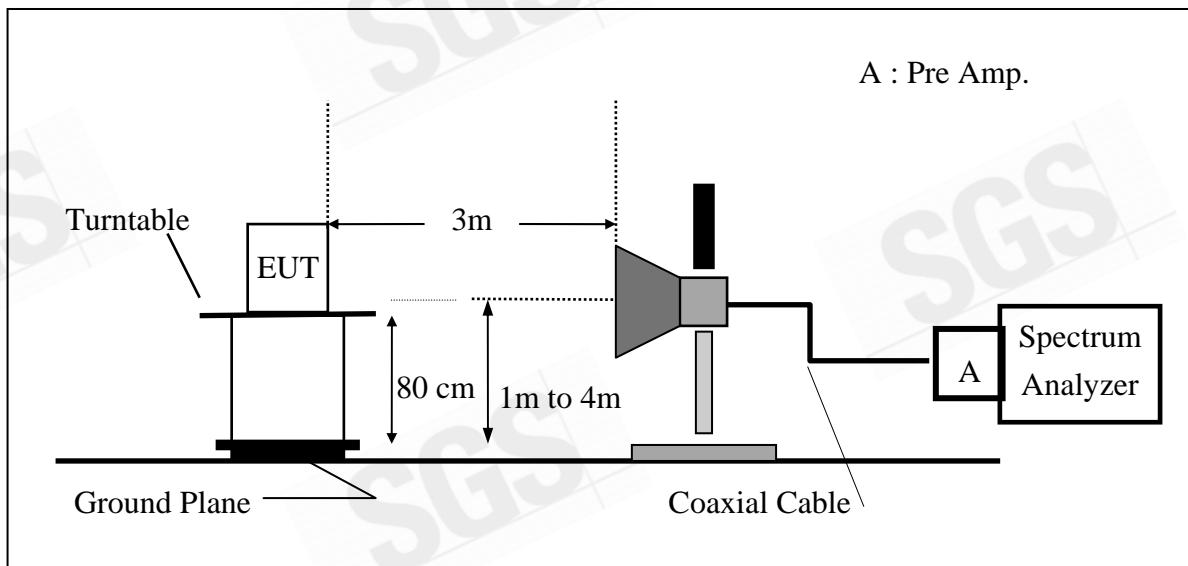
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



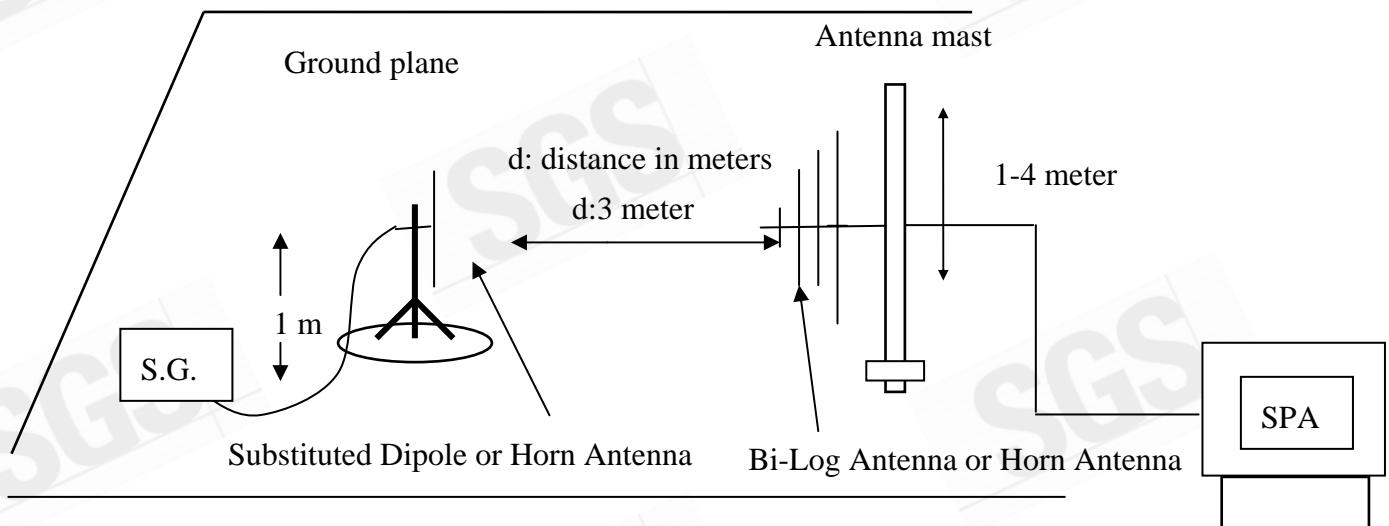
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure:

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

During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

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

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:

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

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

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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7.5. Measurement Result:

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
GSM 850	H	824.20	128	V	26.43	3.96	-4.22	26.17	38.45
				H	22.73	3.96	-4.22	22.47	38.45
		836.60	190	V	26.48	4.00	-4.24	26.24	38.45
				H	22.80	4.00	-4.24	22.56	38.45
		848.80	251	V	27.37	4.03	-4.33	27.07	38.45
				H	23.37	4.03	-4.33	23.07	38.45
	E1	824.20	128	V	18.68	3.96	-4.22	18.42	38.45
				H	24.00	3.96	-4.22	23.74	38.45
		836.60	190	V	18.72	4.00	-4.24	18.48	38.45
				H	25.32	4.00	-4.24	25.08	38.45
		848.80	251	V	22.80	4.03	-4.33	22.50	38.45
				H	26.64	4.03	-4.33	26.34	38.45
	E2	824.20	128	V	20.19	3.96	-4.22	19.93	38.45
				H	26.42	3.96	-4.22	26.16	38.45
		836.60	190	V	21.16	4.00	-4.24	20.92	38.45
				H	27.11	4.00	-4.24	26.87	38.45
		848.80	251	V	23.15	4.03	-4.33	22.85	38.45
				H	27.54	4.03	-4.33	27.24	38.45

Remark :

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
GSM 1900	H	1850.20	512	V	31.06	4.17	-5.49	29.75	33.00
				H	29.55	4.51	-5.49	28.58	33.00
		1880.00	661	V	29.81	4.13	-5.56	28.38	33.00
				H	29.79	4.44	-5.56	28.66	33.00
		1909.80	810	V	28.89	4.09	-5.56	27.43	33.00
				H	29.09	4.36	-5.56	27.89	33.00
	E1	1850.20	512	V	32.25	4.17	-5.49	30.94	33.00
				H	25.98	4.51	-5.49	25.00	33.00
		1880.00	661	V	31.46	4.13	-5.56	30.03	33.00
				H	24.11	4.44	-5.56	22.98	33.00
		1909.80	810	V	31.44	4.09	-5.56	29.98	33.00
				H	24.77	4.36	-5.56	23.57	33.00
	E2	1850.20	512	V	29.63	4.17	-5.49	28.31	33.00
				H	31.37	4.51	-5.49	30.39	33.00
		1880.00	661	V	28.59	4.13	-5.56	27.16	33.00
				H	30.62	4.44	-5.56	29.49	33.00
		1909.80	810	V	28.28	4.09	-5.56	26.81	33.00
				H	30.58	4.36	-5.56	29.38	33.00

Remark :

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	H	824.20	128	V	26.42	3.96	-4.22	26.16	38.45
				H	22.70	3.96	-4.22	22.44	38.45
		836.60	190	V	26.90	4.00	-4.24	26.66	38.45
				H	23.39	4.00	-4.24	23.15	38.45
		848.80	251	V	27.39	4.03	-4.33	27.09	38.45
				H	24.62	4.03	-4.33	24.32	38.45
	E1	824.20	128	V	16.98	3.96	-4.22	16.72	38.45
				H	23.17	3.96	-4.22	22.91	38.45
		836.60	190	V	20.77	4.00	-4.24	20.53	38.45
				H	24.57	4.00	-4.24	24.33	38.45
		848.80	251	V	23.33	4.03	-4.33	23.03	38.45
				H	25.77	4.03	-4.33	25.47	38.45
	E2	824.20	128	V	21.06	3.96	-4.22	20.80	38.45
				H	26.58	3.96	-4.22	26.32	38.45
		836.60	190	V	21.11	4.00	-4.24	20.87	38.45
				H	27.06	4.00	-4.24	26.82	38.45
		848.80	251	V	23.08	4.03	-4.33	22.78	38.45
				H	27.51	4.03	-4.33	27.21	38.45

Remark :

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	H	1850.20	512	V	31.04	4.17	-5.49	29.73	33.00
				H	27.87	4.51	-5.49	26.89	33.00
		1880.00	661	V	30.67	4.13	-5.56	29.24	33.00
				H	29.79	4.44	-5.56	28.67	33.00
		1909.80	810	V	29.61	4.09	-5.56	28.14	33.00
				H	29.51	4.36	-5.56	28.32	33.00
	E1	1850.20	512	V	33.77	4.17	-5.49	32.45	33.00
				H	26.77	4.51	-5.49	25.79	33.00
		1880.00	661	V	31.92	4.13	-5.56	30.50	33.00
				H	24.41	4.44	-5.56	23.29	33.00
		1909.80	810	V	31.88	4.09	-5.56	30.42	33.00
				H	23.93	4.36	-5.56	22.73	33.00
	E2	1850.20	512	V	29.53	4.17	-5.49	28.22	33.00
				H	31.34	4.51	-5.49	30.37	33.00
		1880.00	661	V	28.75	4.13	-5.56	27.33	33.00
				H	30.64	4.44	-5.56	29.52	33.00
		1909.80	810	V	28.51	4.09	-5.56	27.05	33.00
				H	30.96	4.36	-5.56	29.76	33.00

Remark :

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
EDGE 850	H	824.20	128	V	25.32	3.96	-4.22	25.06	38.45
				H	21.58	3.96	-4.22	21.32	38.45
		836.60	190	V	25.92	4.00	-4.24	25.68	38.45
				H	22.58	4.00	-4.24	22.34	38.45
		848.80	251	V	26.47	4.03	-4.33	26.17	38.45
				H	22.77	4.03	-4.33	22.47	38.45
	E1	824.20	128	V	16.06	3.96	-4.22	15.80	38.45
				H	23.32	3.96	-4.22	23.06	38.45
		836.60	190	V	17.11	4.00	-4.24	16.87	38.45
				H	24.58	4.00	-4.24	24.34	38.45
		848.80	251	V	21.01	4.03	-4.33	20.71	38.45
				H	25.28	4.03	-4.33	24.98	38.45
	E2	824.20	128	V	20.11	3.96	-4.22	19.85	38.45
				H	25.82	3.96	-4.22	25.56	38.45
		836.60	190	V	21.34	4.00	-4.24	21.10	38.45
				H	26.74	4.00	-4.24	26.50	38.45
		848.80	251	V	21.86	4.03	-4.33	21.56	38.45
				H	26.92	4.03	-4.33	26.62	38.45

Remark :

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
EDGE 1900	H	1850.20	512	V	30.84	4.17	-5.49	29.52	33.00
				H	25.98	4.51	-5.49	25.00	33.00
		1880.00	661	V	29.54	4.13	-5.56	28.11	33.00
				H	27.86	4.44	-5.56	26.73	33.00
		1909.80	810	V	27.81	4.09	-5.56	26.34	33.00
				H	27.79	4.36	-5.56	26.60	33.00
	E1	1850.20	512	V	31.72	4.17	-5.49	30.41	33.00
				H	25.23	4.51	-5.49	24.26	33.00
		1880.00	661	V	30.14	4.13	-5.56	28.71	33.00
				H	23.62	4.44	-5.56	22.49	33.00
		1909.80	810	V	30.34	4.09	-5.56	28.88	33.00
				H	22.63	4.36	-5.56	21.44	33.00
	E2	1850.20	512	V	26.88	4.17	-5.49	25.56	33.00
				H	29.56	4.51	-5.49	28.58	33.00
		1880.00	661	V	28.97	4.13	-5.56	27.54	33.00
				H	28.36	4.44	-5.56	27.24	33.00
		1909.80	810	V	27.17	4.09	-5.56	25.71	33.00
				H	28.52	4.36	-5.56	27.33	33.00

Remark :

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

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8. 99% OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable:

According to §FCC 2.1049.

According to IC RSS-Gen Issue 3 §4.6.1

According to IC RSS-133 §2.3

8.2. Test Set-up:

Refer to section 6.2 in this report

8.3. Measurement Procedure:

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

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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8.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GSM 850	824.20	128	244.0587
	836.60	190	240.8299
	848.80	251	246.8813

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GSM 1900	1850.20	512	244.1094
	1880.00	661	241.2418
	1909.80	810	246.2472

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GPRS 850	824.20	128	251.2293
	836.60	190	241.0294
	848.80	251	241.1679

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GPRS 1900	1850.20	512	242.8871
	1880.00	661	240.2306
	1909.80	810	241.0005

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
EDGE 850	824.20	128	246.5741
	836.60	190	241.8004
	848.80	251	246.5472

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
EDGE 1900	1850.20	512	243.0969
	1880.00	661	242.9775
	1909.80	810	243.5768

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Figure 8-1: GSM 850 Channel Low

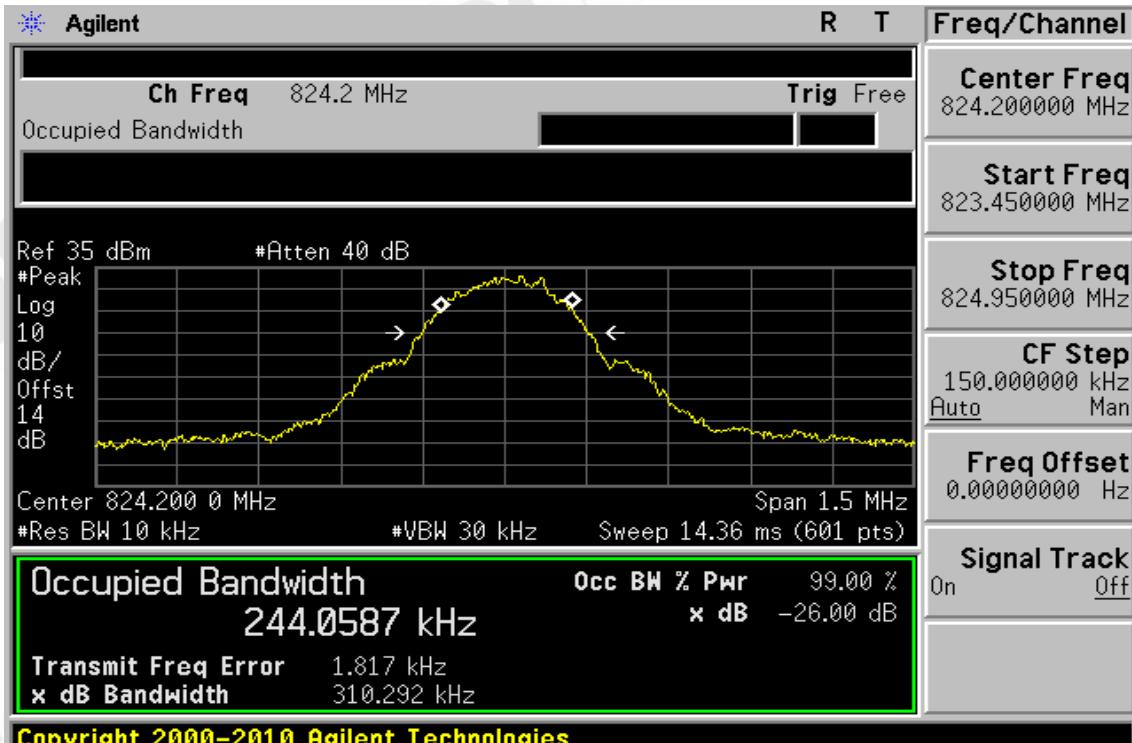
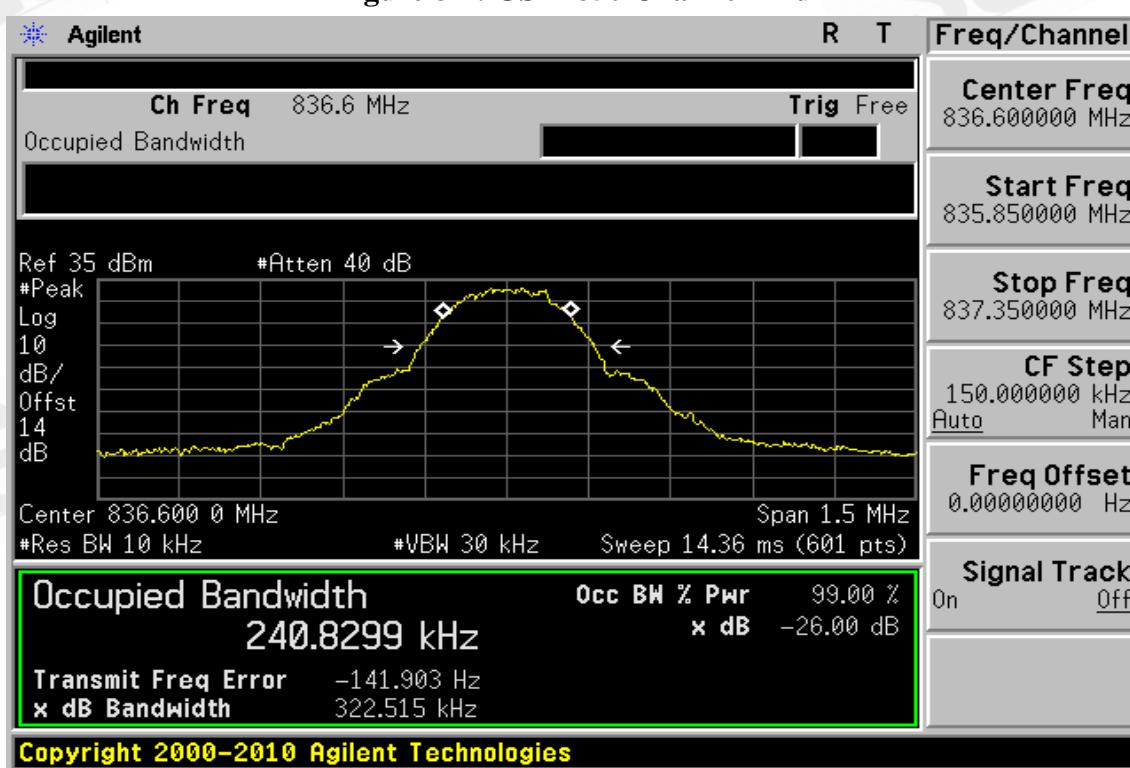


Figure 8-2: GSM 850 Channel Mid



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Figure 8-3: GSM 850 Channel High

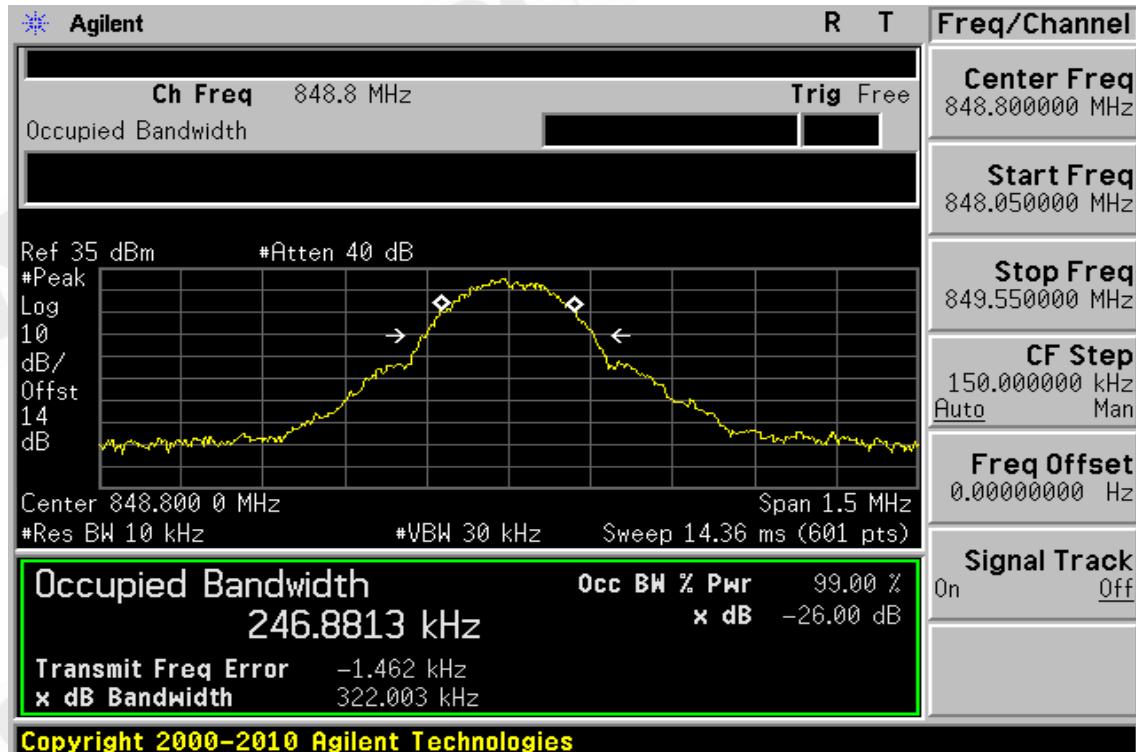
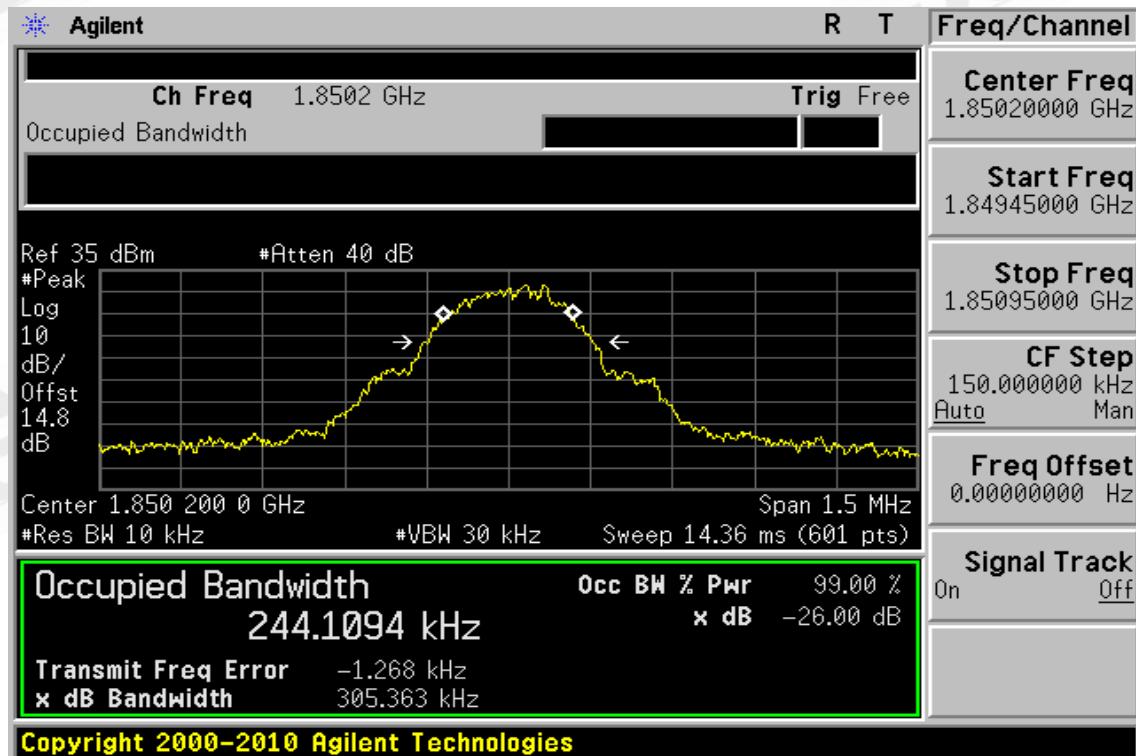


Figure 8-4: GSM 1900 Channel Low



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Figure 8-5: GSM 1900 Channel Mid

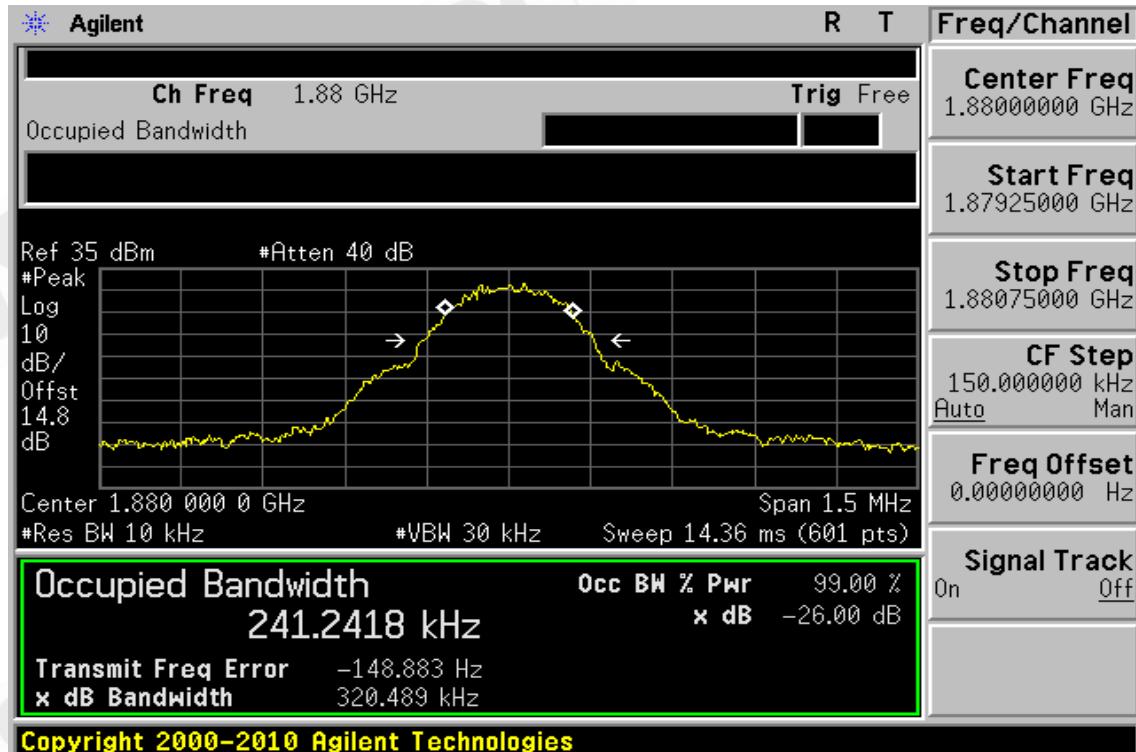
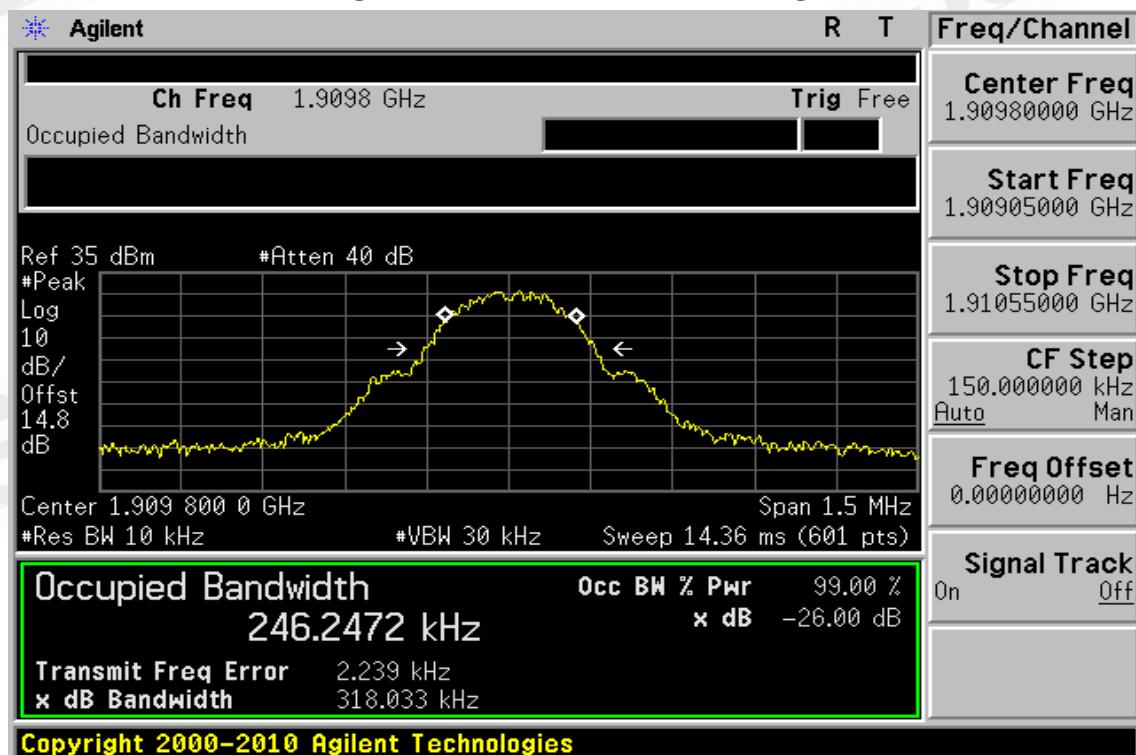


Figure 8-6: GSM 1900 Channel High



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Figure 8-7: GPRS 850 Channel Low

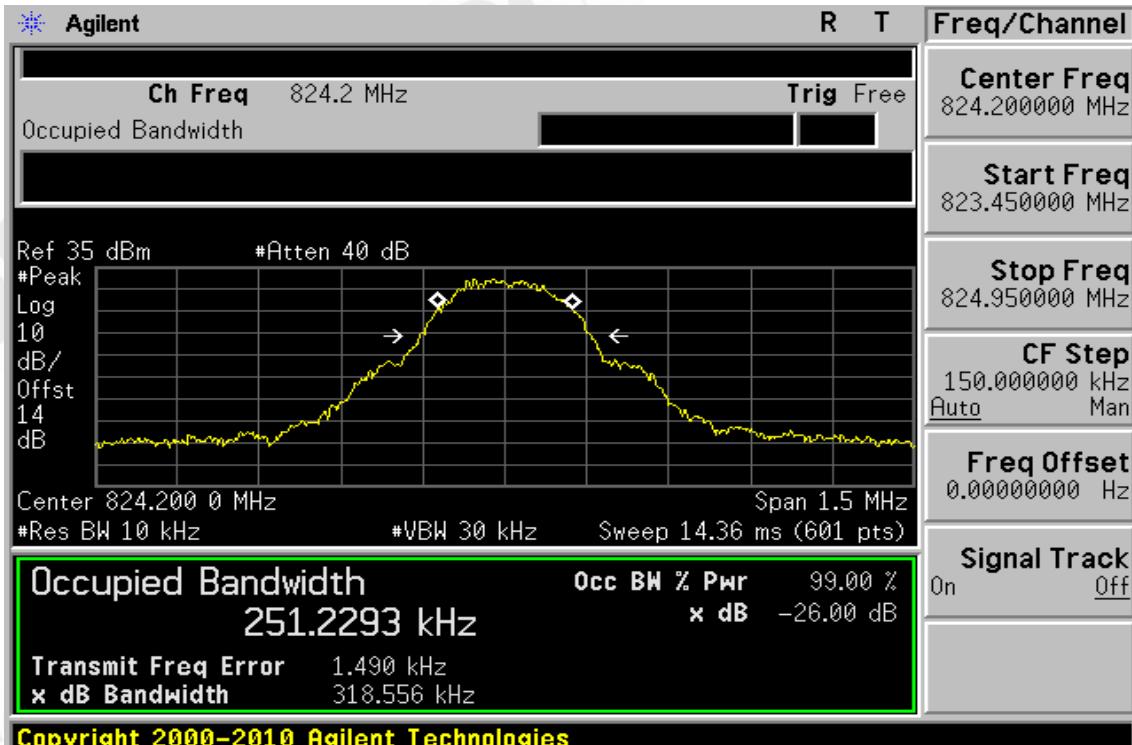
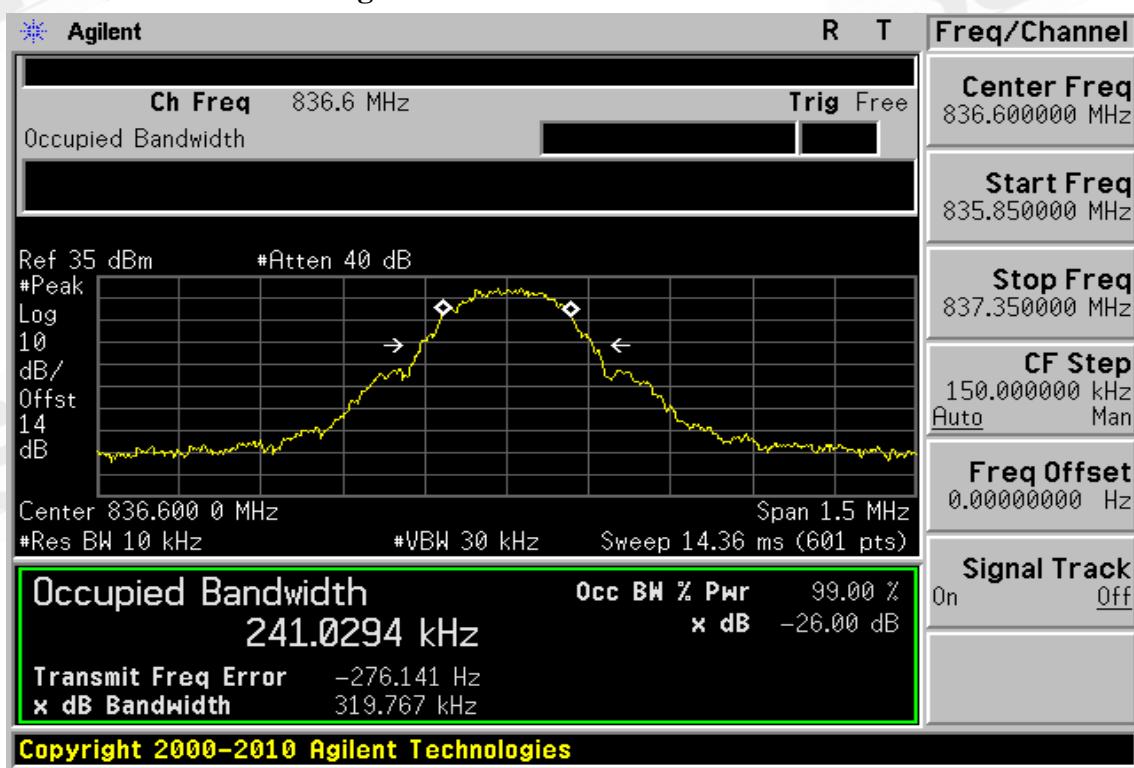


Figure 8-8: GPRS 850 Channel Mid



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Figure 8-9: GPRS 850 Channel High

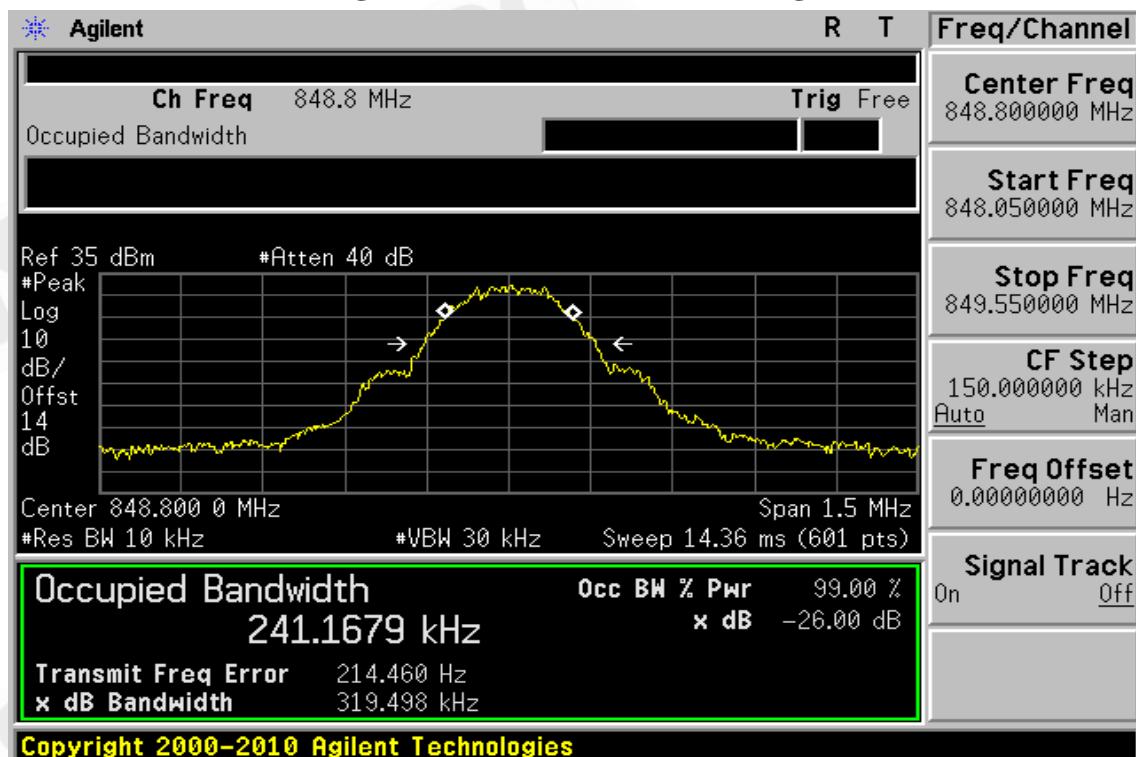
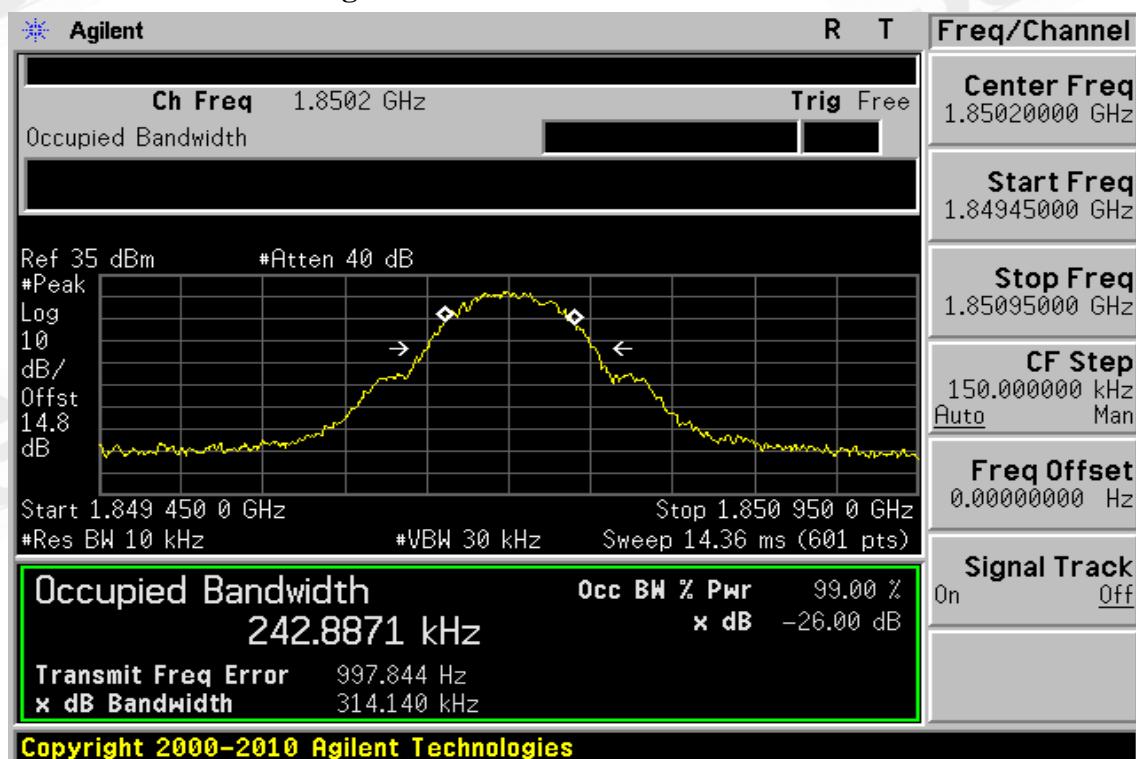


Figure 8-10: GPRS 1900 Channel Low



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Figure 8-11 GPRS 1900 Channel Mid

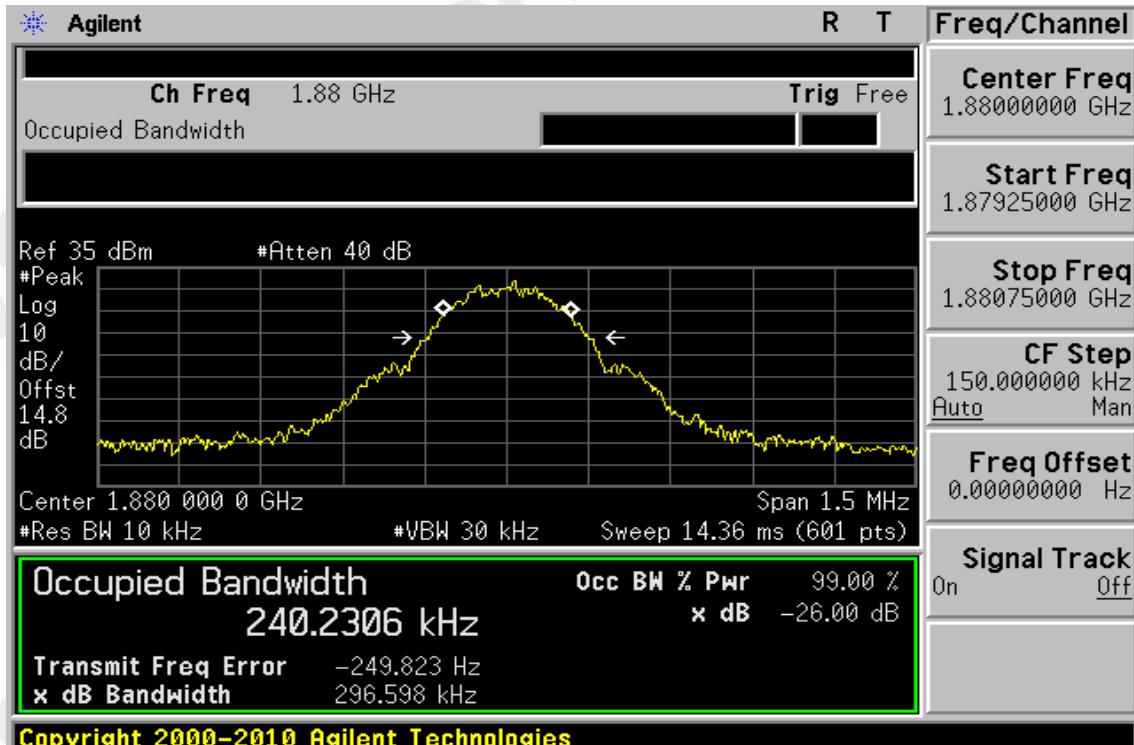
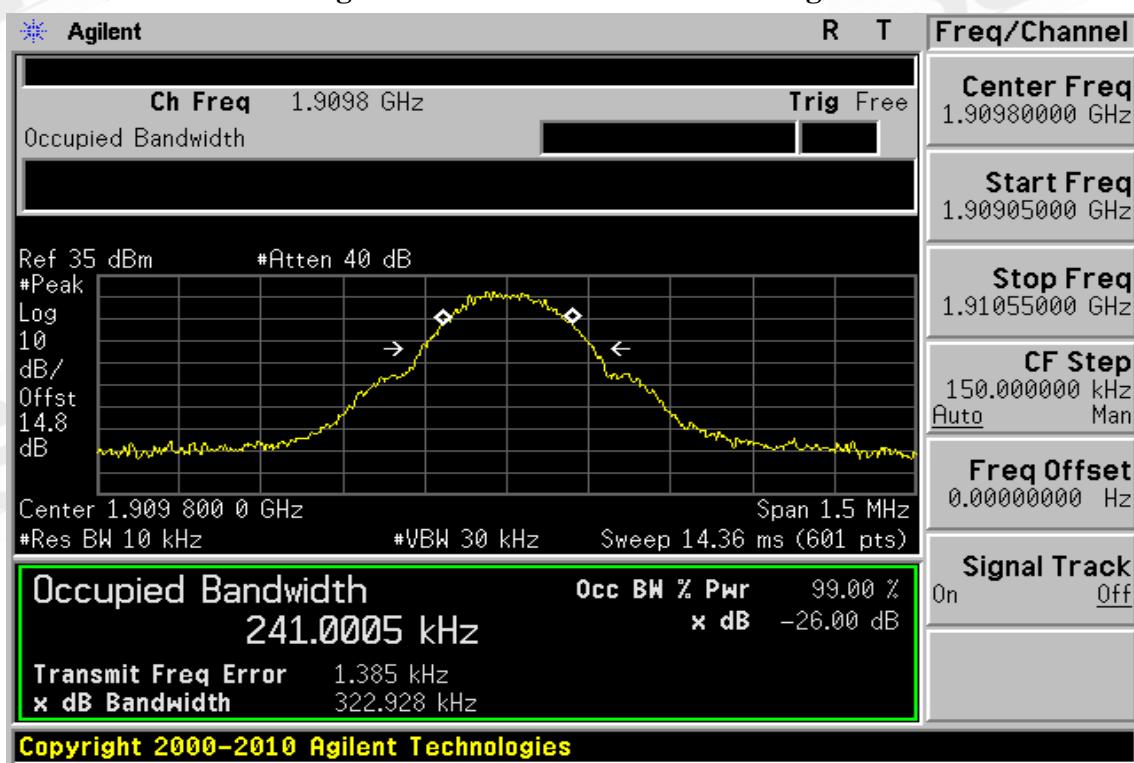


Figure 8-12: GPRS 1900 Channel High



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Figure 8-13: EDGE 850 Channel Low

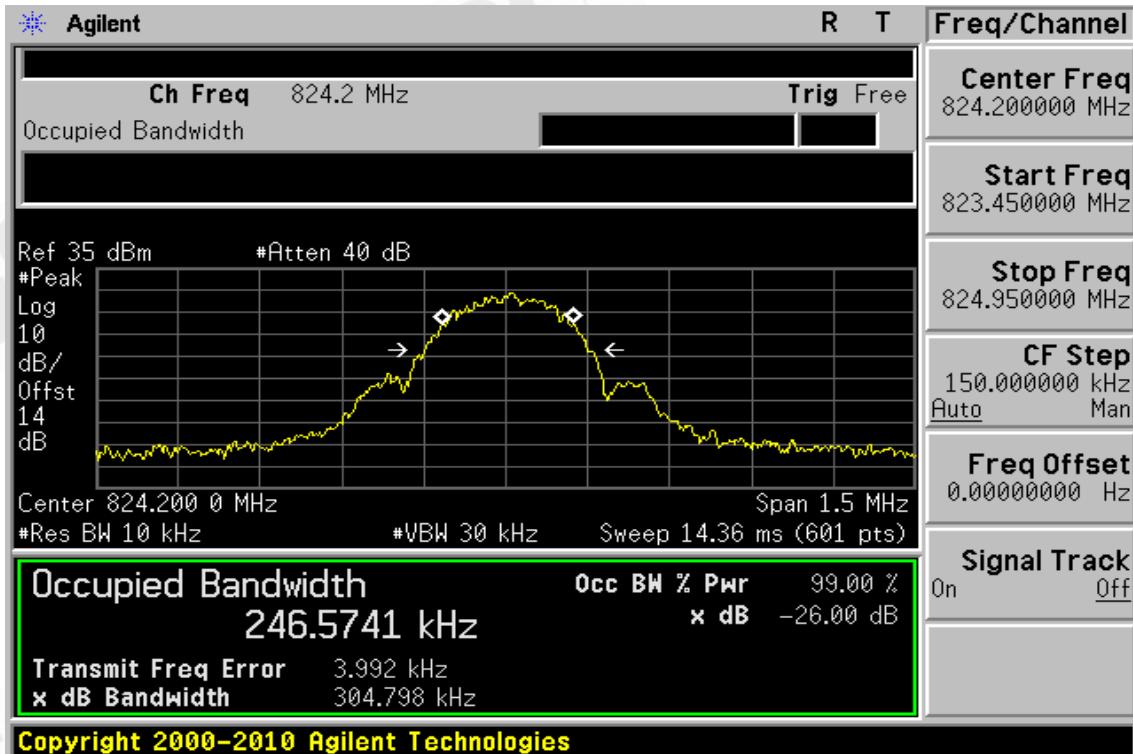
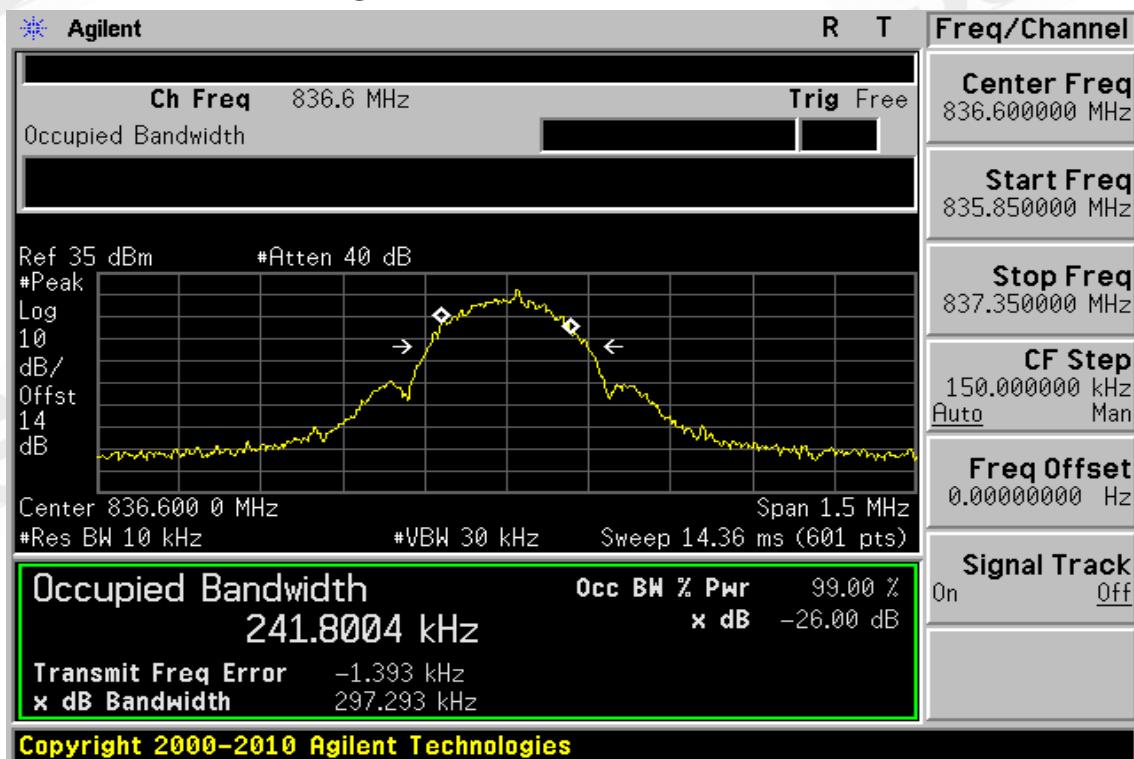


Figure 8-14 EDGE 850 Channel Mid



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Figure 8-15: EDGE 850 Channel High

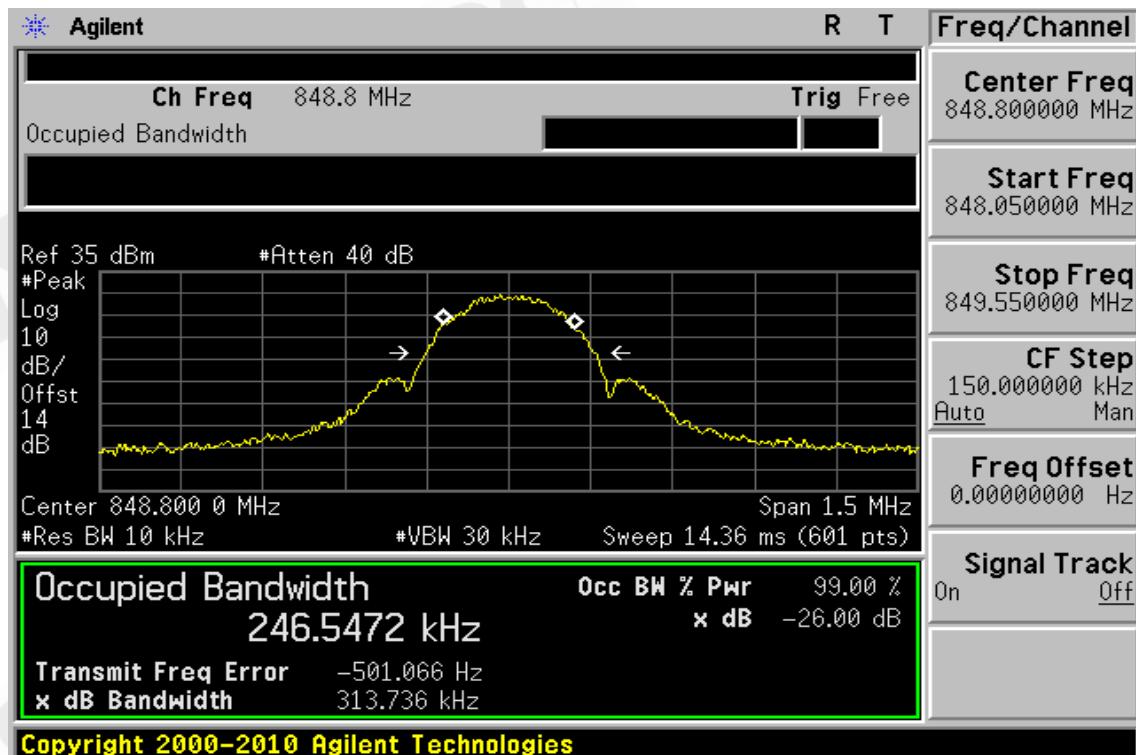
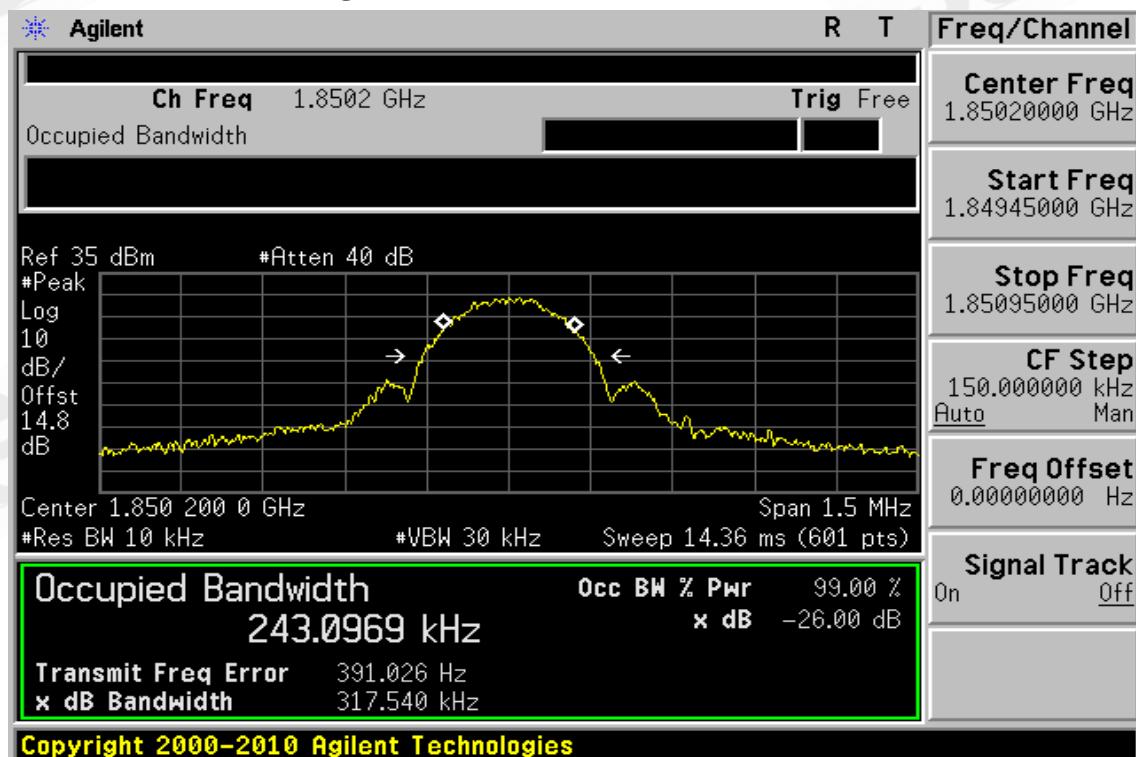


Figure 8-16: EDGE 1900 Channel Low



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Figure 8-17 EDGE 1900 Channel Mid

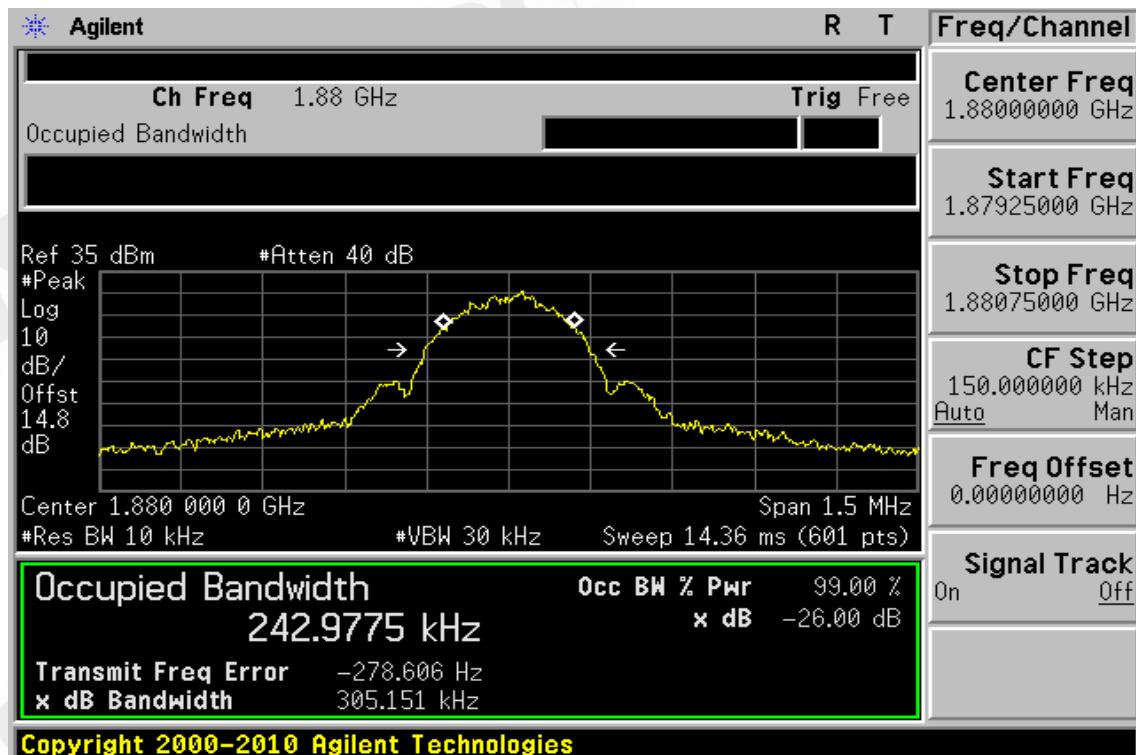
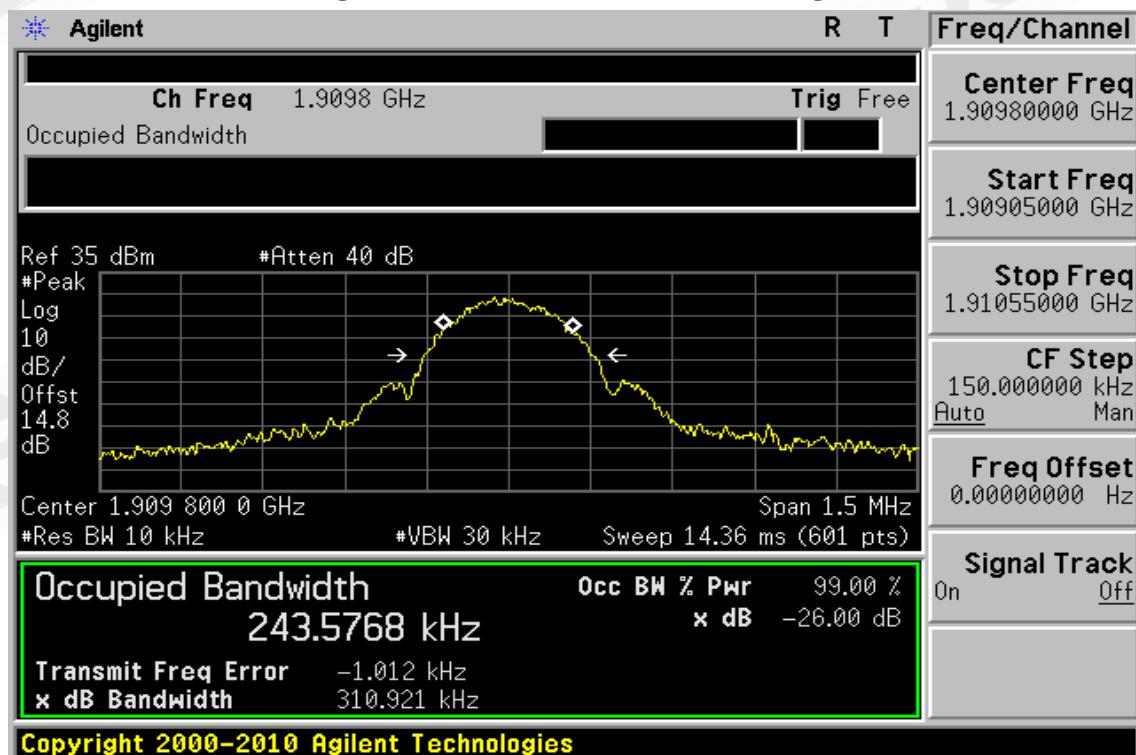


Figure 8-18: EDGE 1900 Channel High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. 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

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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

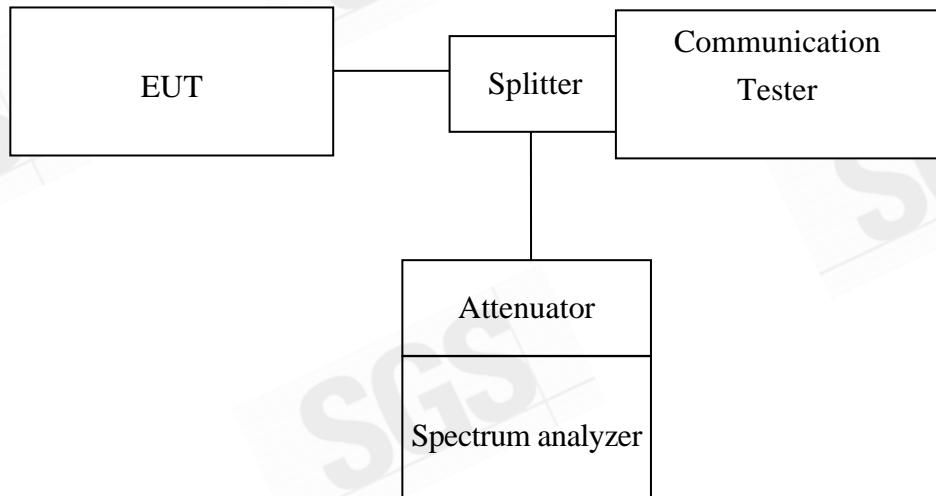
Outside the sub-bands 1850-1910 MHz and 1930-1990 MHz, the attenuation shall be equal to or greater than the out-of-block emission limits in Section 6.5.1.

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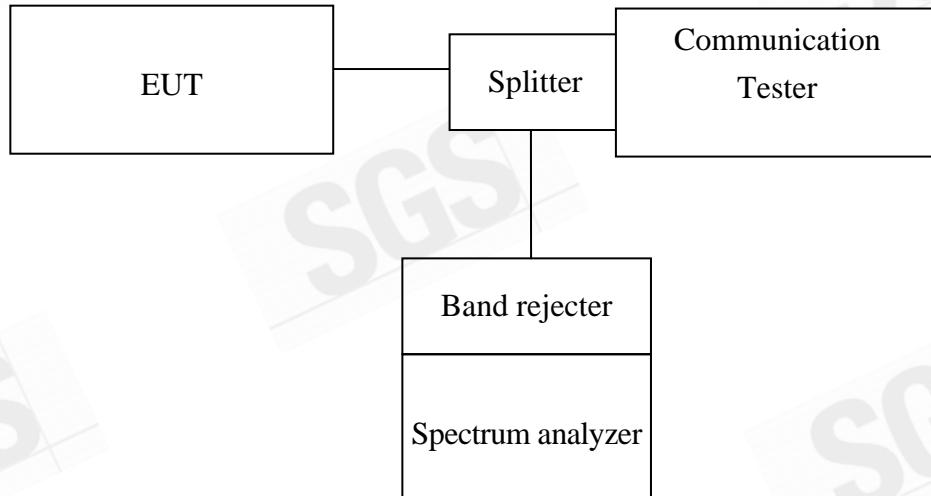
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9.2. Test SET-UP:

Out of band emission



Band Edge



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9.3. 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= 10 th harmonic. Limit = -13dBm

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

Conducted Emission:

- 1、 To connect Antenna Port of EUT to Spectrum.
- 2、 Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3、 Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 1G, 1G to 2.5G, 2.5G to 7.5G, 7.5G to 10G ,10G to 15G and 15G to 20GHz
- 4、 Via Software, combine 6 spans of frequency range into one plot

9.4. Measurement Equipment Used:

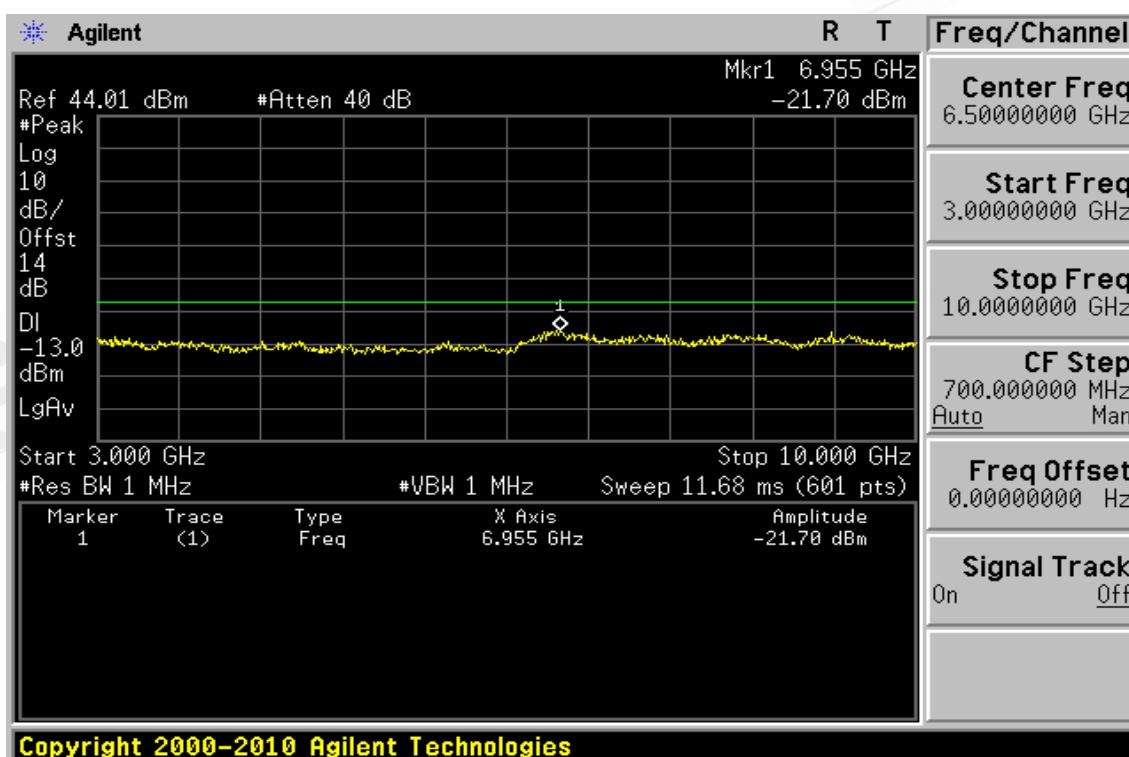
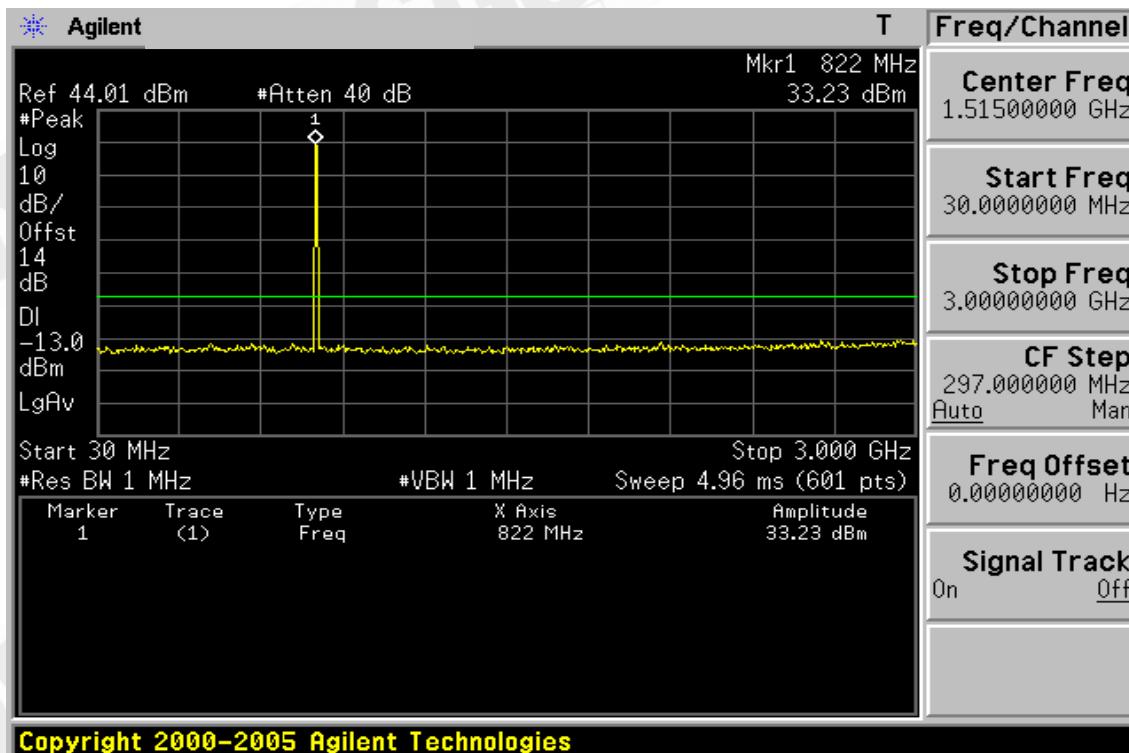
Refer to section 2.4 in this report

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9.5. Measurement Result:

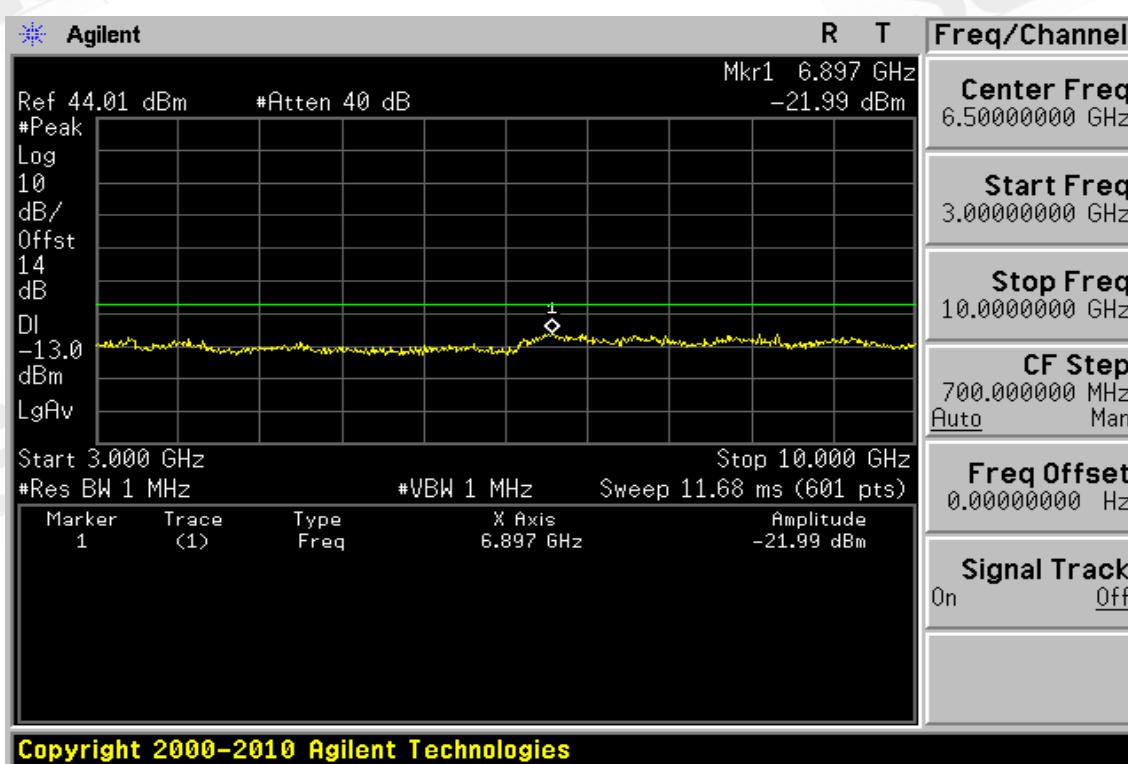
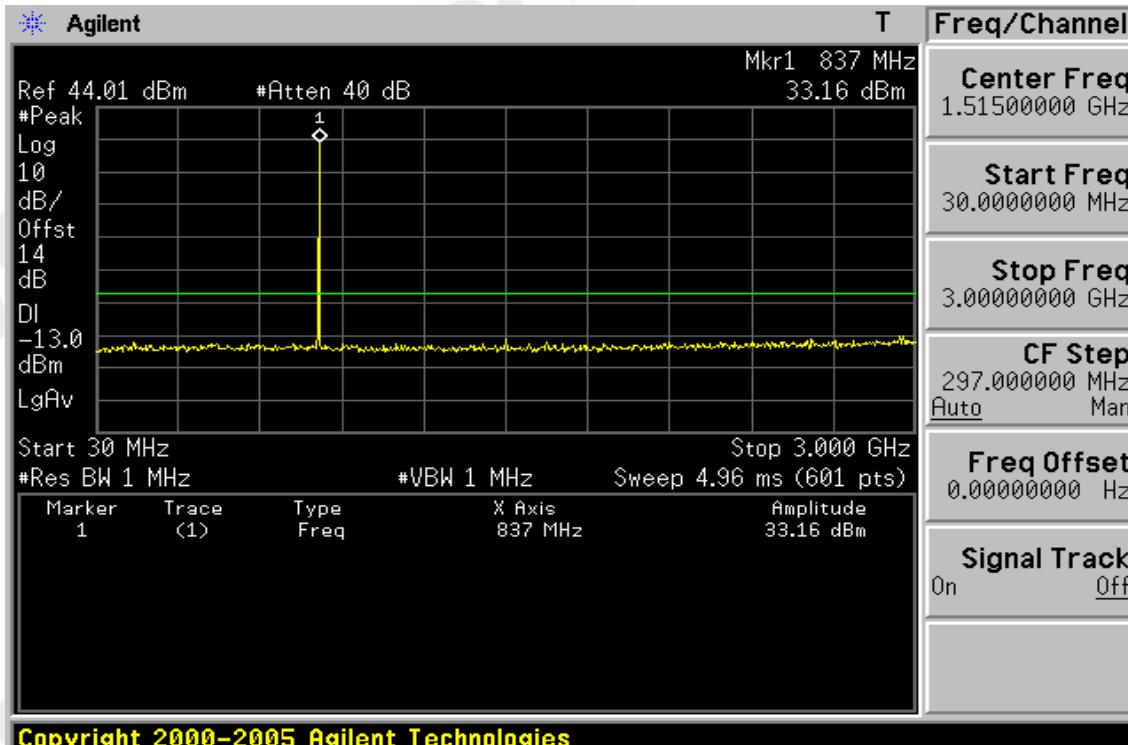
Figure 9-1: Out of Band emission at antenna terminals – GSM 850 Channel Lowest



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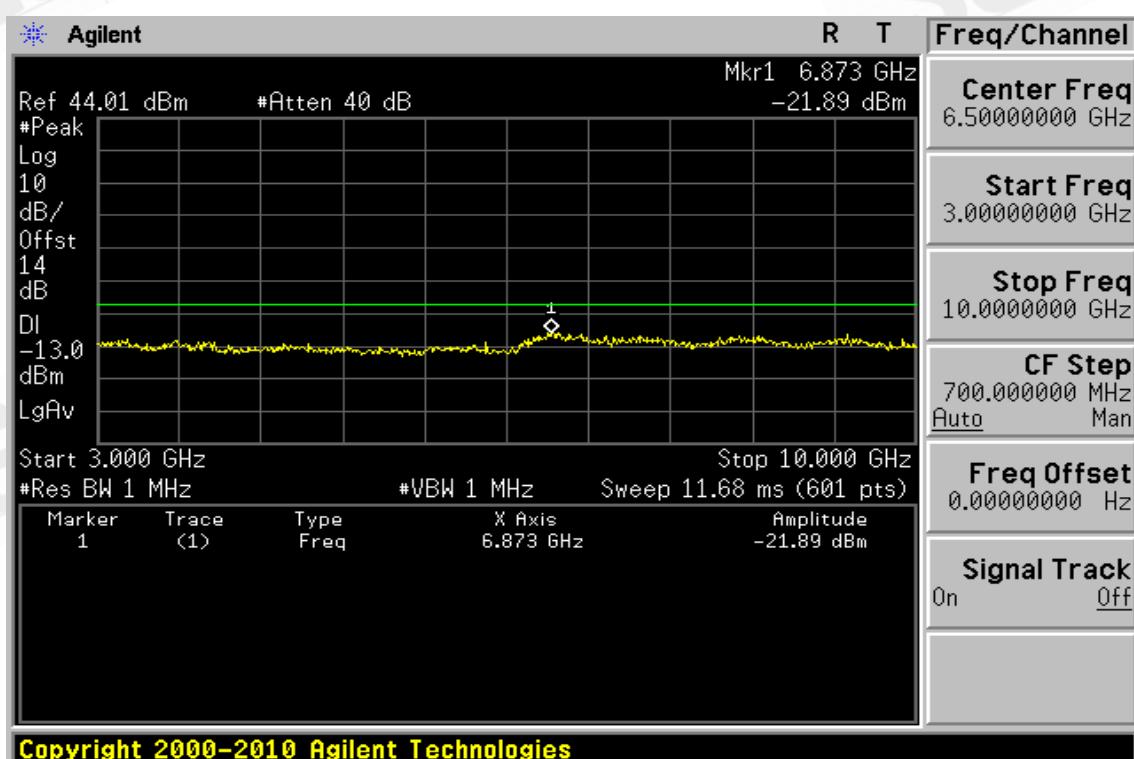
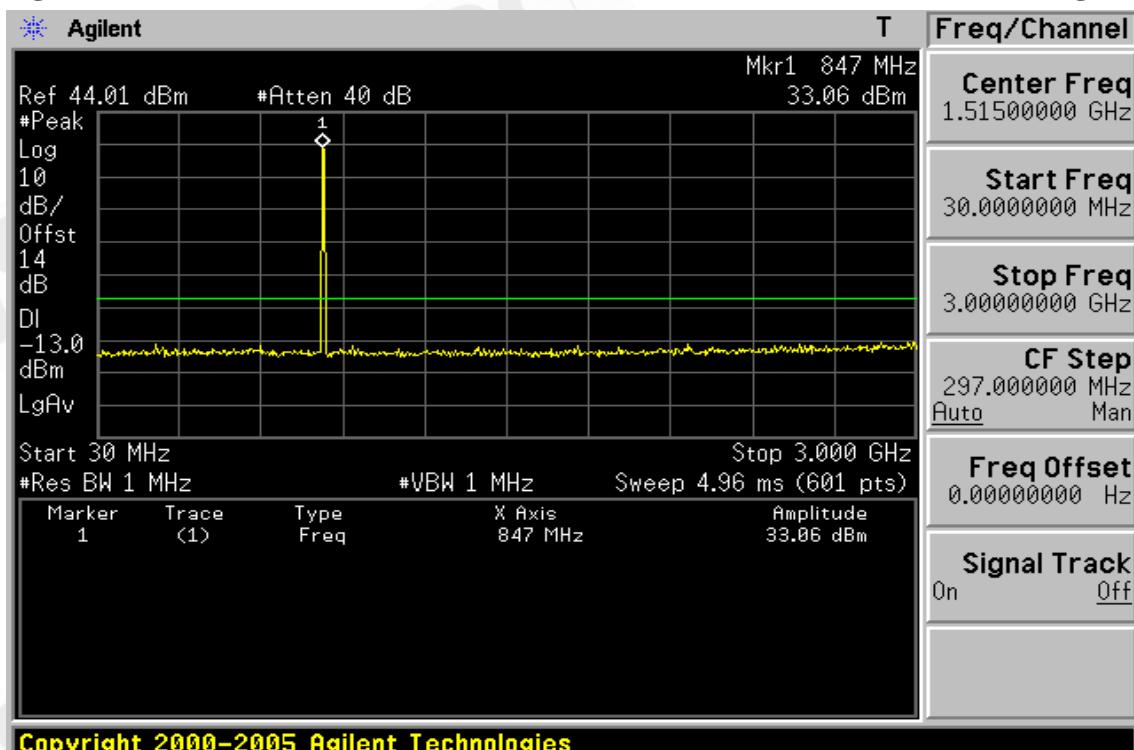
Figure 9-2: Out of Band emission at antenna terminals – GSM 850 Channel Mid



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Figure 9-3: Out of Band emission at antenna terminals – GSM 850 Channel Highest



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Out of Band emission at antenna terminals – GSM 850Fundamental Frequency :824.2 MHz
Operation Mode :TX Low

Engineer

:Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1648.40	H	---	-13.00	---
2472.60	H	---	-13.00	---
3296.80	H	---	-13.00	---
4121.00	H	---	-13.00	---
4945.20	H	---	-13.00	---
5769.40	H	---	-13.00	---
6593.60	H	---	-13.00	---
6955.00	S	-21.7	-13.00	8.70
7417.80	H	---	-13.00	---
8242.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz
Operation Mode :TX Mid

Engineer :Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	S	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
6897.00	S	-21.99	-13.00	8.99
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“---” : denotes Noise Floor.

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Fundamental Frequency :848.8MHz
Operation Mode :TX High

Engineer :Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1697.60	S	---	-13.00	---
2546.40	H	---	-13.00	---
3395.20	H	---	-13.00	---
4244.00	H	---	-13.00	---
5092.80	H	---	-13.00	---
5941.60	H	---	-13.00	---
6790.40	H	---	-13.00	---
6873.00	S	-21.89	-13.00	8.89
7639.20	H	---	-13.00	---
8488.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“---” : denotes Noise Floor.

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Figure 9-4: Band edge emission at antenna terminals – GSM 850 Channel Lowest

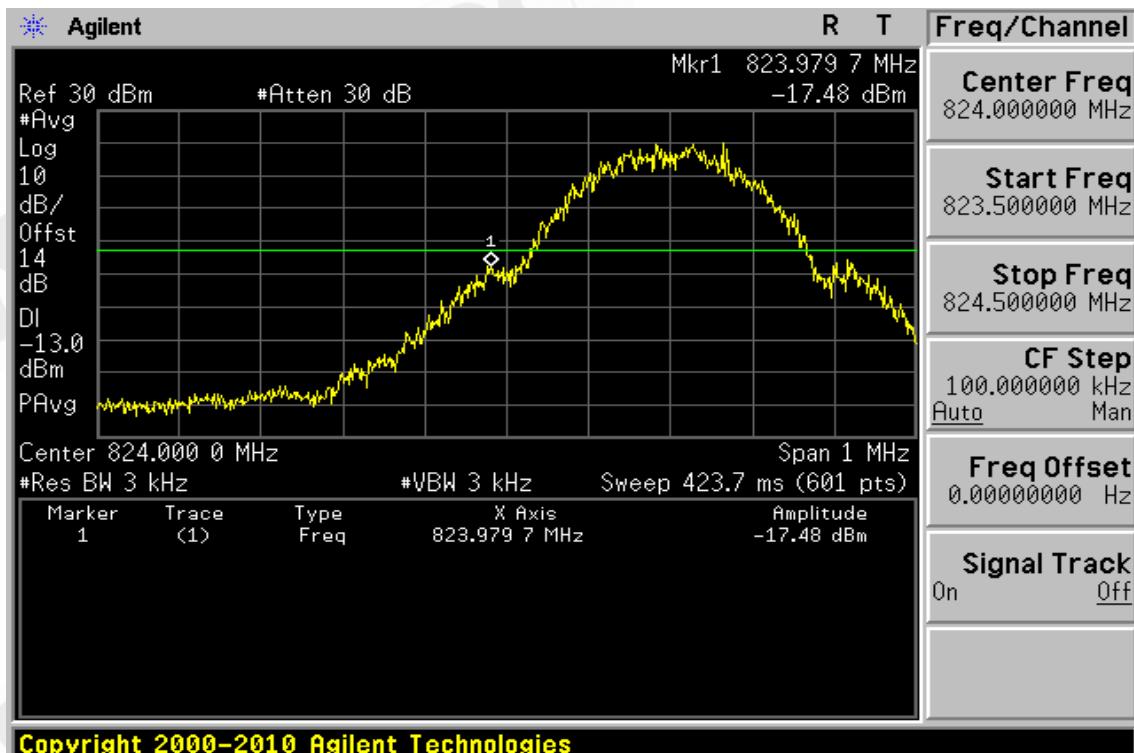
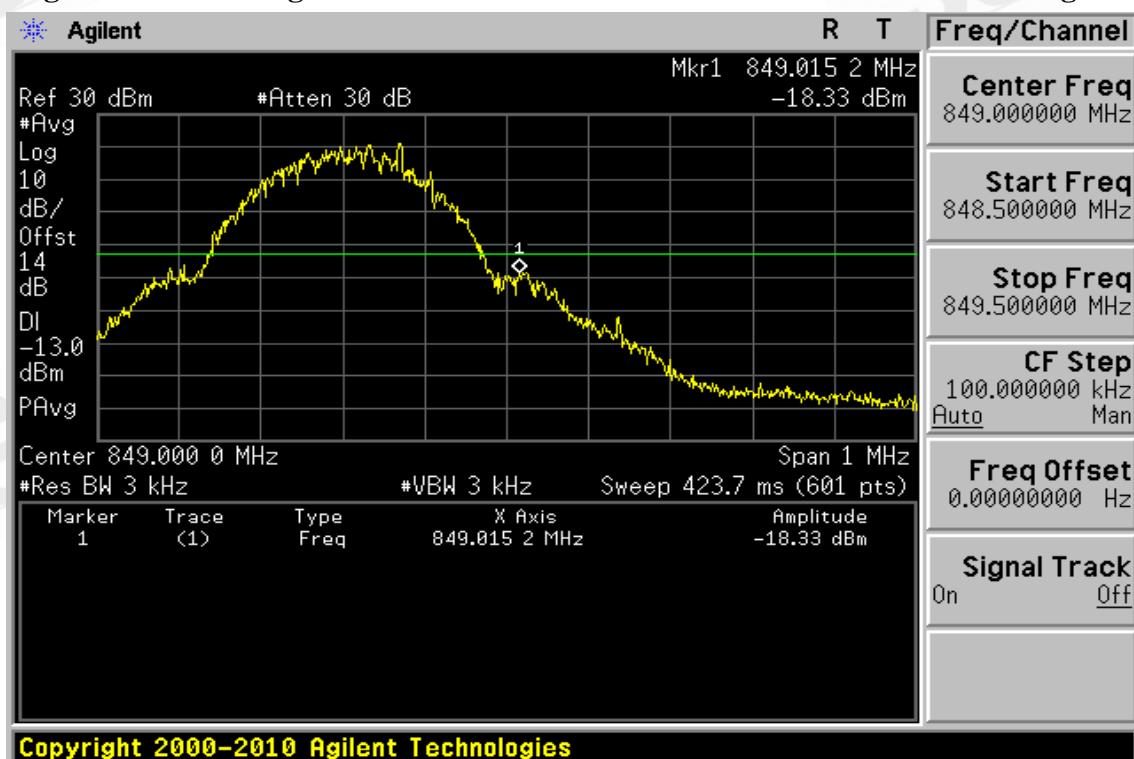


Figure 9-5: Band edge emission at antenna terminals – GSM 850 Channel Highest



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Band edge emission at antenna terminals – GSM 850 Low & High

Test Mode

GSM 850

Engineer

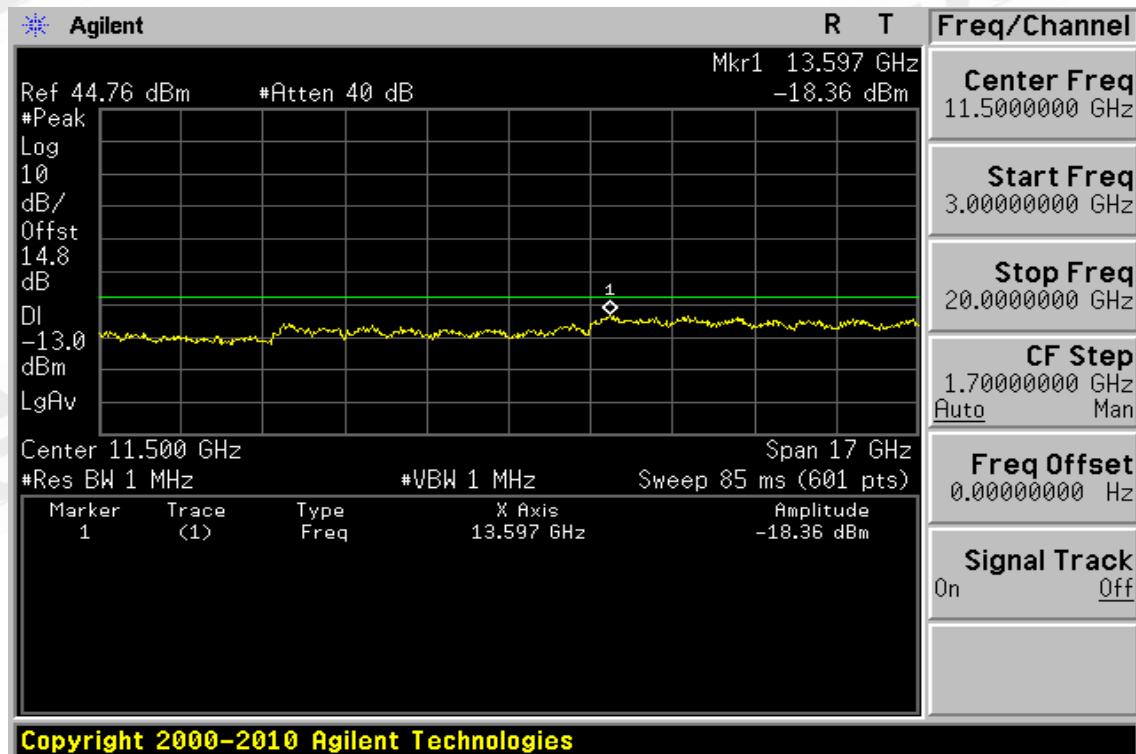
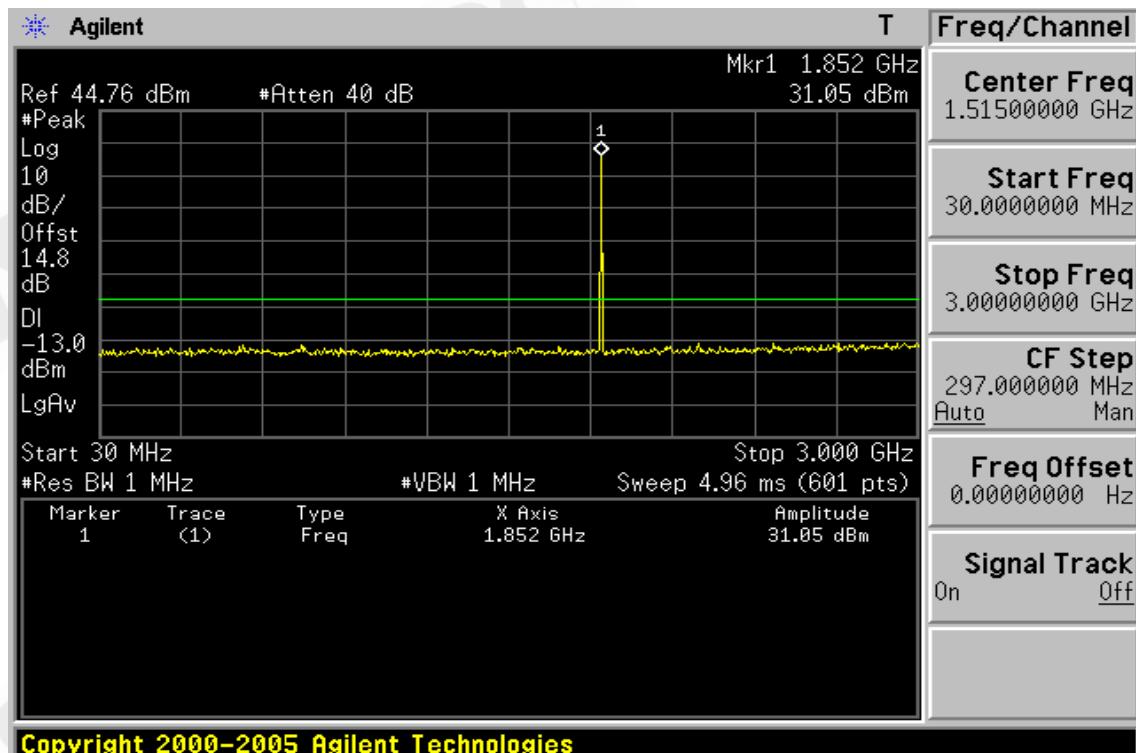
:Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.979	-17.48	-13.00	4.48
849.015	-18.33	-13.00	5.33

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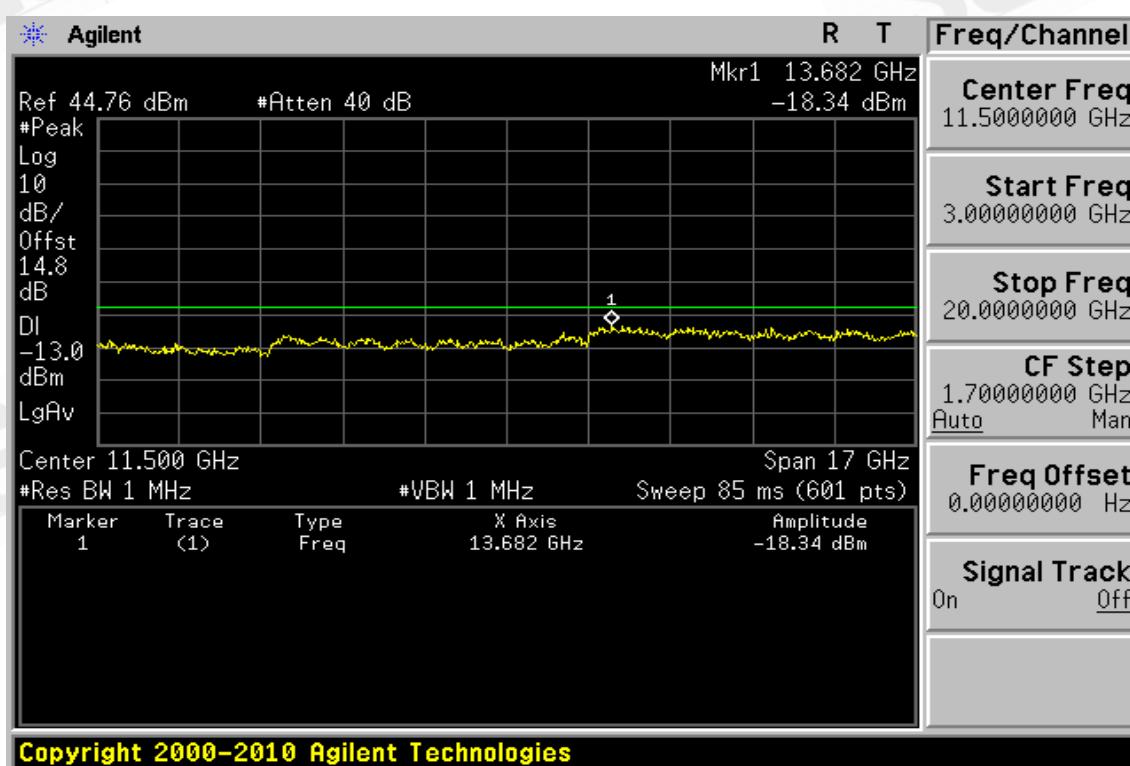
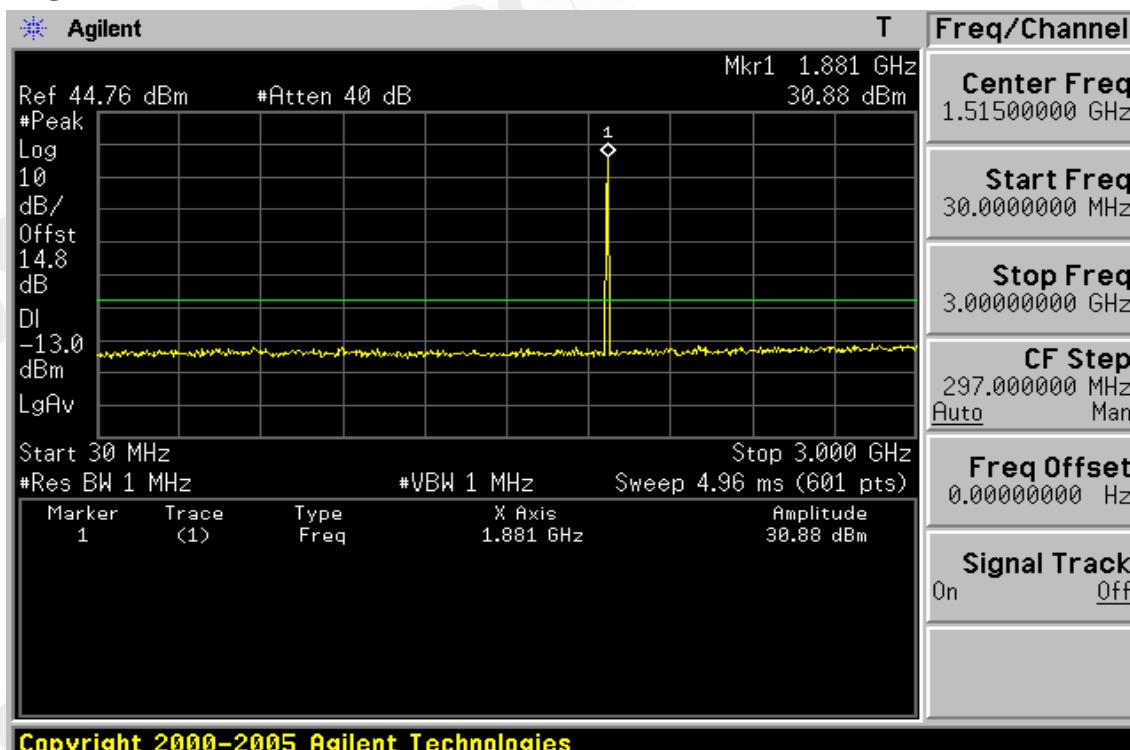
Figure 9-6: Out of Band emission at antenna terminals – GSM 1900 Channel Lowest



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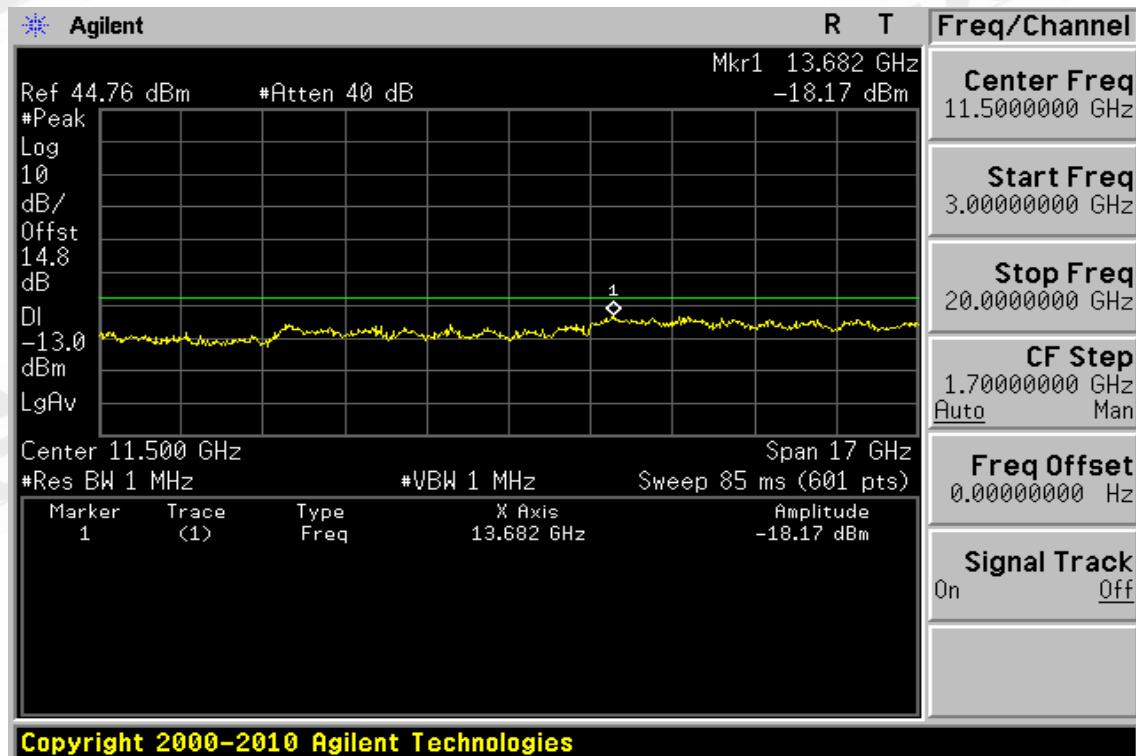
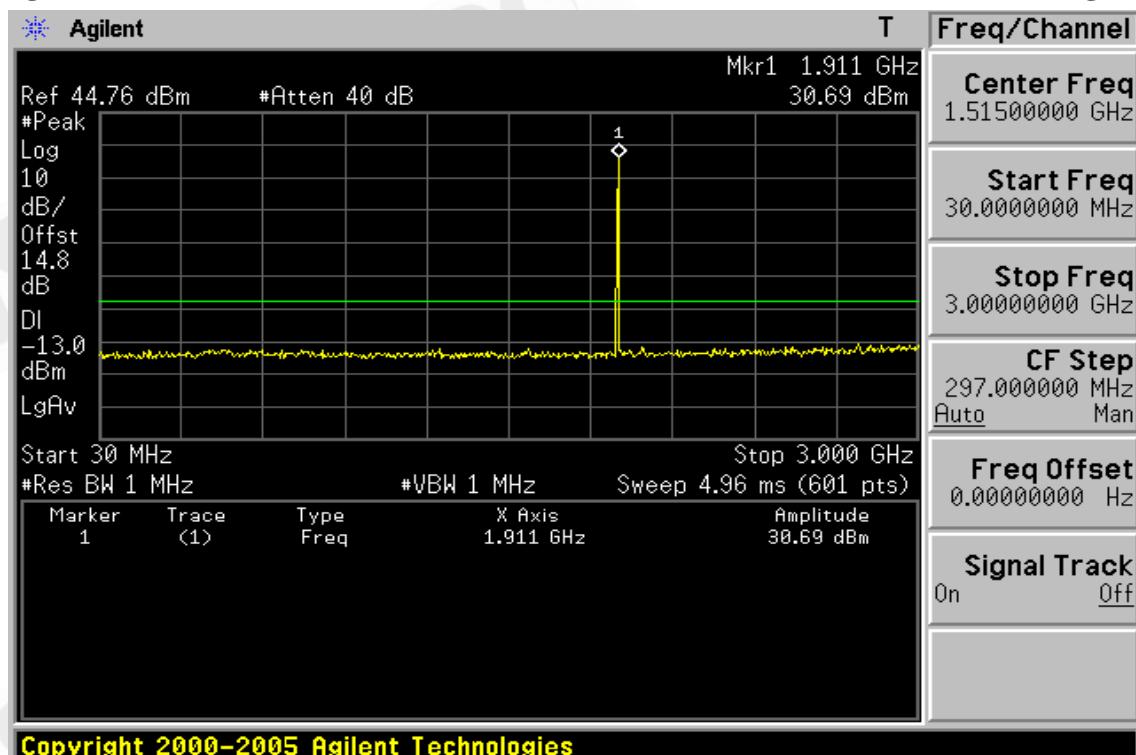
Figure 9-7: Out of Band emission at antenna terminals – GSM 1900 Channel Mid



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Figure 9-8: Out of Band emission at antenna terminals – GSM 1900 Channel Highest



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Out of Band emission at antenna terminals – GSM 1900

Fundamental Frequency :1850.2 MHz Engineer :Jay
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3700.40	H	---	-13.00	---
5550.60	H	---	-13.00	---
7400.80	H	---	-13.00	---
9251.00	H	---	-13.00	---
11101.20	H	---	-13.00	---
12951.40	H	---	-13.00	---
13597.00	S	-18.36	-13.00	5.36
14801.60	H	---	-13.00	---
16651.80	H	---	-13.00	---
18502.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz
Operation Mode :TX Mid

Engineer :Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
13682.00	S	-18.34	-13.00	5.34
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz
Operation Mode :TX High

Engineer :Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3819.60	H	---	-13.00	---
5729.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
9549.00	H	---	-13.00	---
11458.80	H	---	-13.00	---
13368.60	H	---	-13.00	---
13682.00	S	-18.17	-13.00	5.17
15278.40	H	---	-13.00	---
17188.20	H	---	-13.00	---
19098.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“---” : denotes Noise Floor.

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Figure 9-9: Bad edge emission at antenna terminals – GSM 1900 Channel Lowest

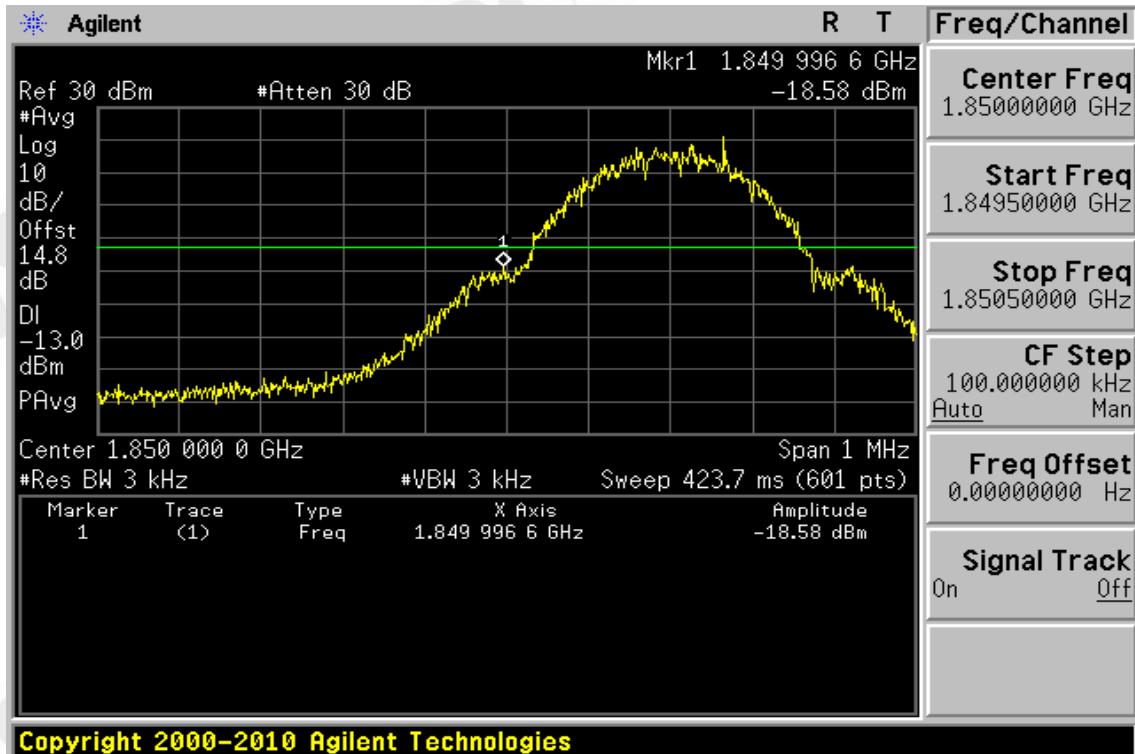
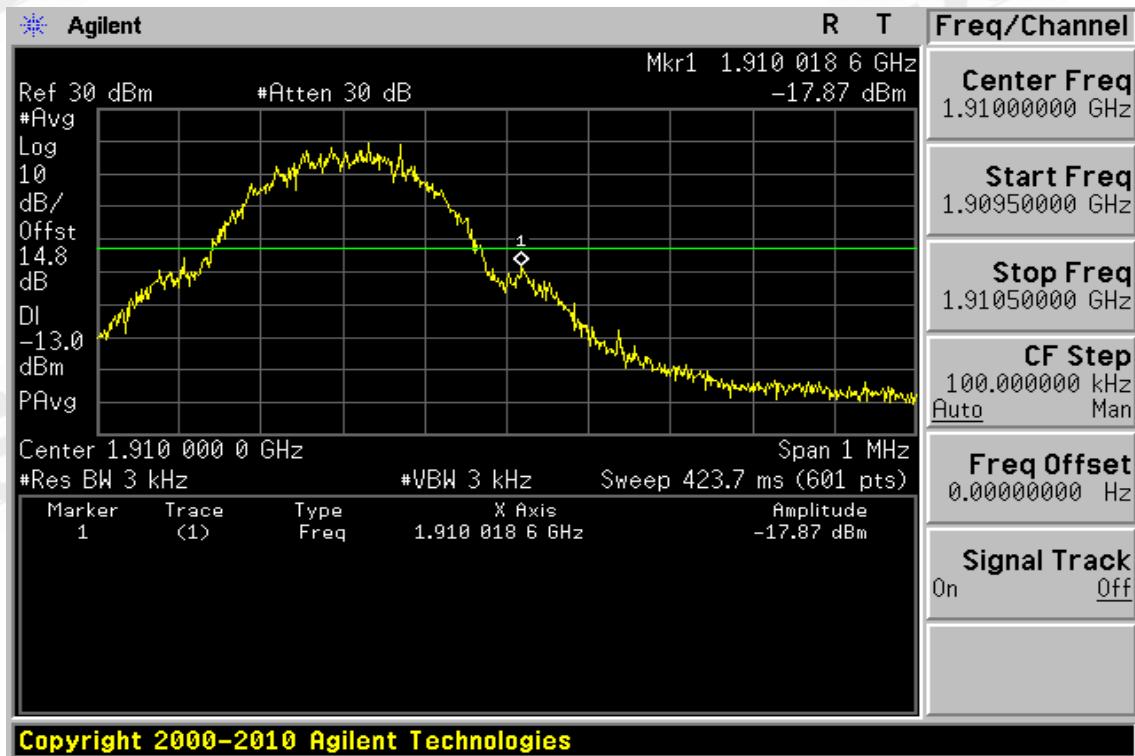


Figure 9-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest



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Band edge emission at antenna terminals – GSM 1900 Low & High

Test Mode

GSM 1900

Engineer

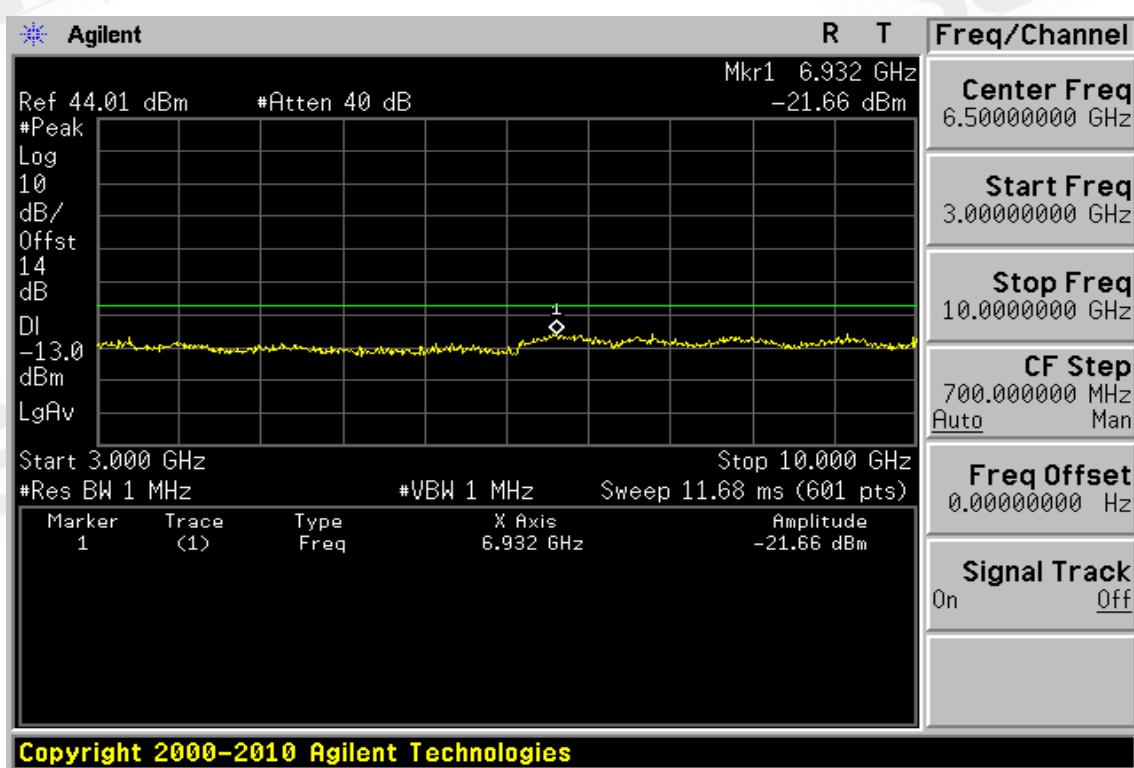
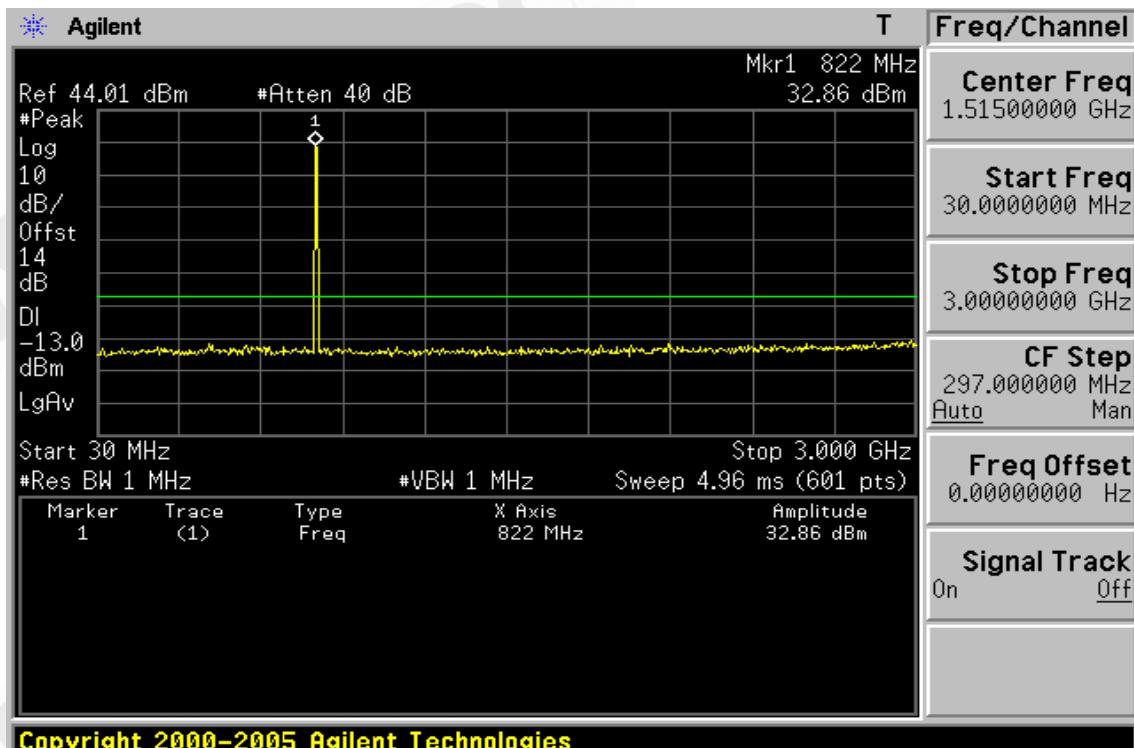
:Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.996	-15.58	-13.00	2.58
1910.018	-17.87	-13.00	4.87

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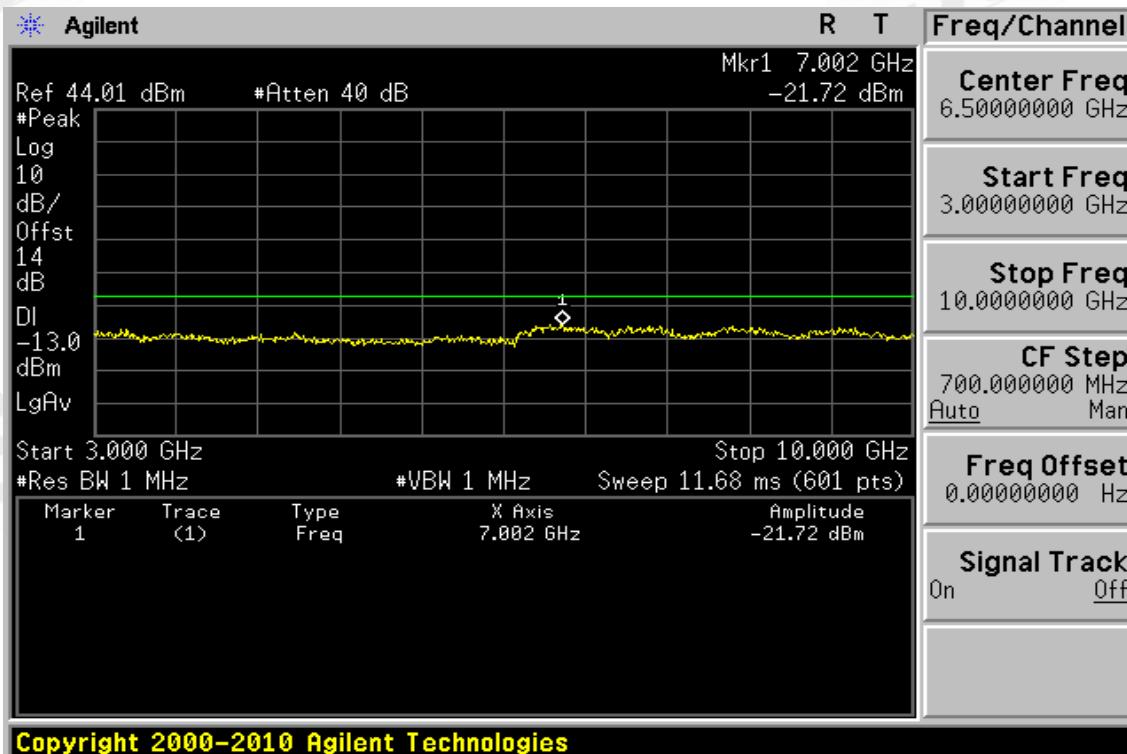
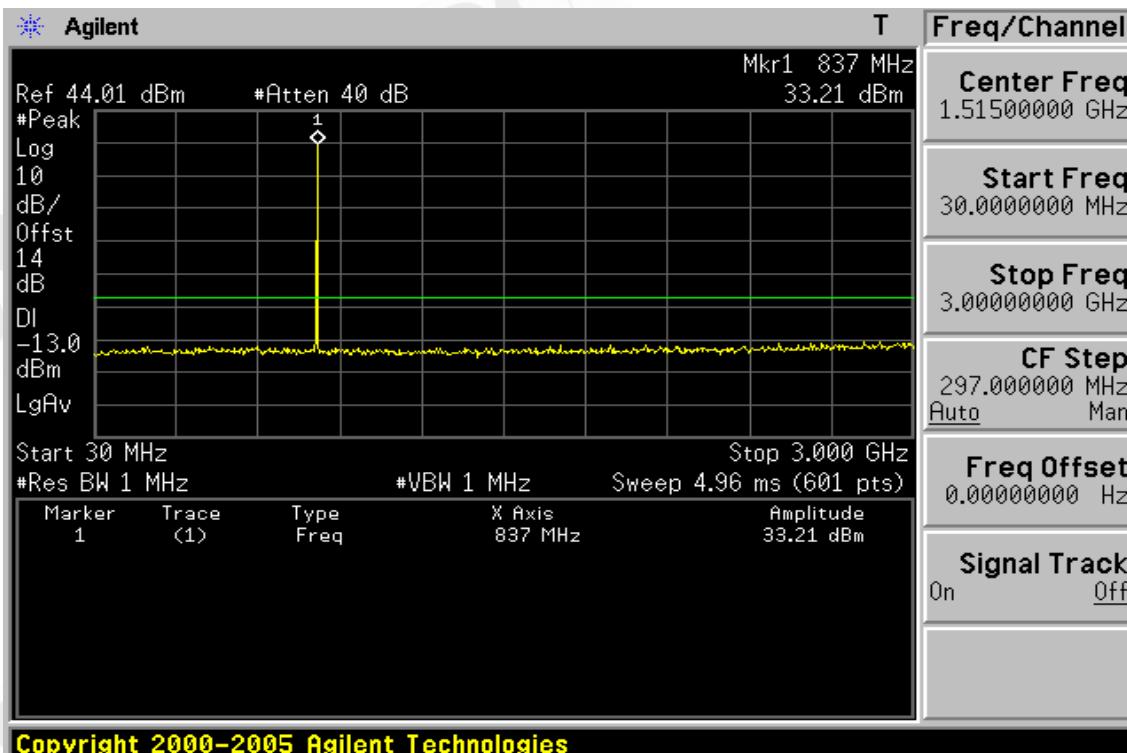
Figure 9-11: Out of Band emission at antenna terminals – GPRS850 Channel Lowest



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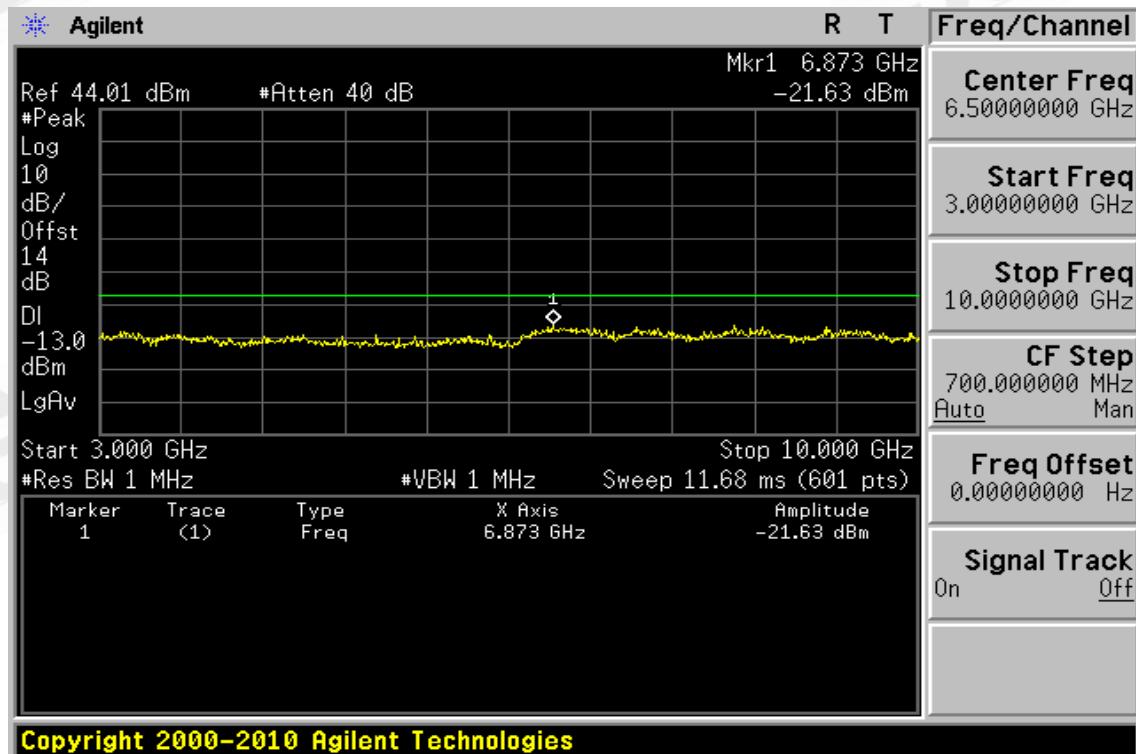
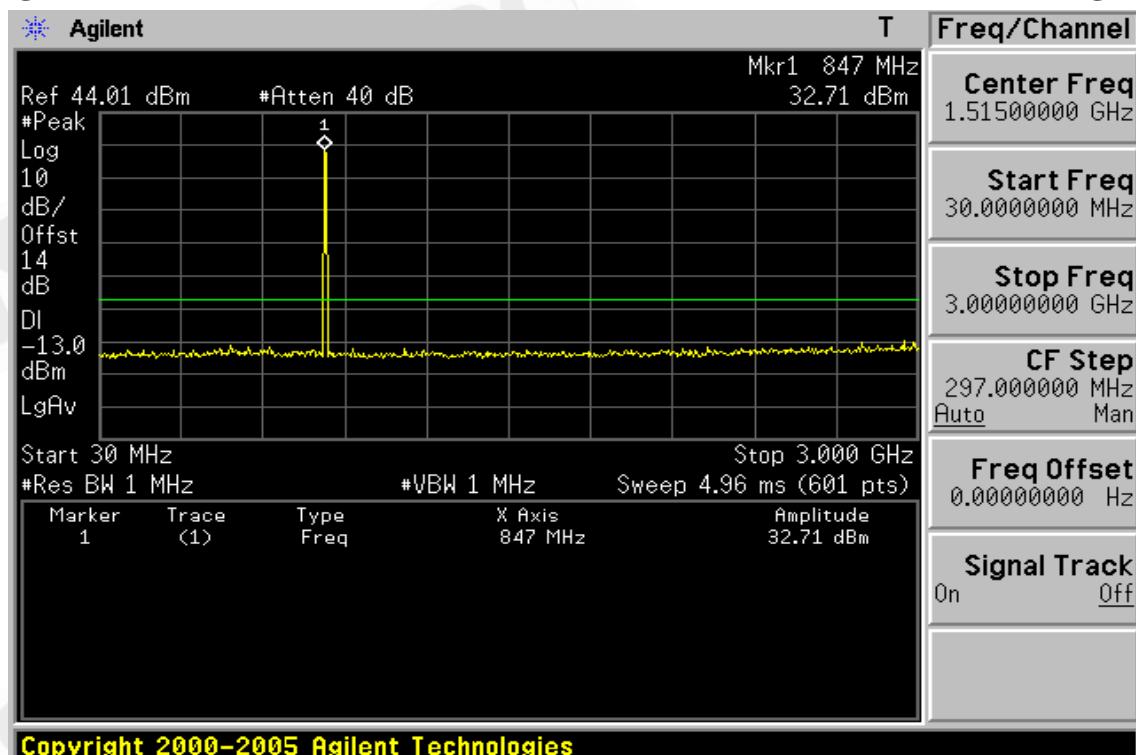
Figure 9-12: Out of Band emission at antenna terminals – GPRS 850 Channel Mid



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Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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Out of Band emission at antenna terminals – GPRS 850Fundamental Frequency :824.2 MHz
Operation Mode :TX Low

Engineer

:Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1648.40	H	---	-13.00	---
2472.60	H	---	-13.00	---
3296.80	H	---	-13.00	---
4121.00	H	---	-13.00	---
4945.20	H	---	-13.00	---
5769.40	H	---	-13.00	---
6593.60	H	---	-13.00	---
6932.00	S	-21.66	-13.00	8.66
7417.80	H	---	-13.00	---
8242.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz
Operation Mode :TX Mid

Engineer :Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
7002.00	S	-21.72	-13.00	8.72
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“---” : denotes Noise Floor.

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Fundamental Frequency :848.8MHz
Operation Mode :TX High

Engineer :Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1697.60	H	---	-13.00	---
2546.40	H	---	-13.00	---
3395.20	H	---	-13.00	---
4244.00	H	---	-13.00	---
5092.80	H	---	-13.00	---
5941.60	H	---	-13.00	---
6790.40	H	---	-13.00	---
6873.00	S	-21.63	-13.00	8.63
7639.20	H	---	-13.00	---
8488.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“---” : denotes Noise Floor.

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Figure 9-14: Band edge emission at antenna terminals – GPRS 850 Channel Lowest

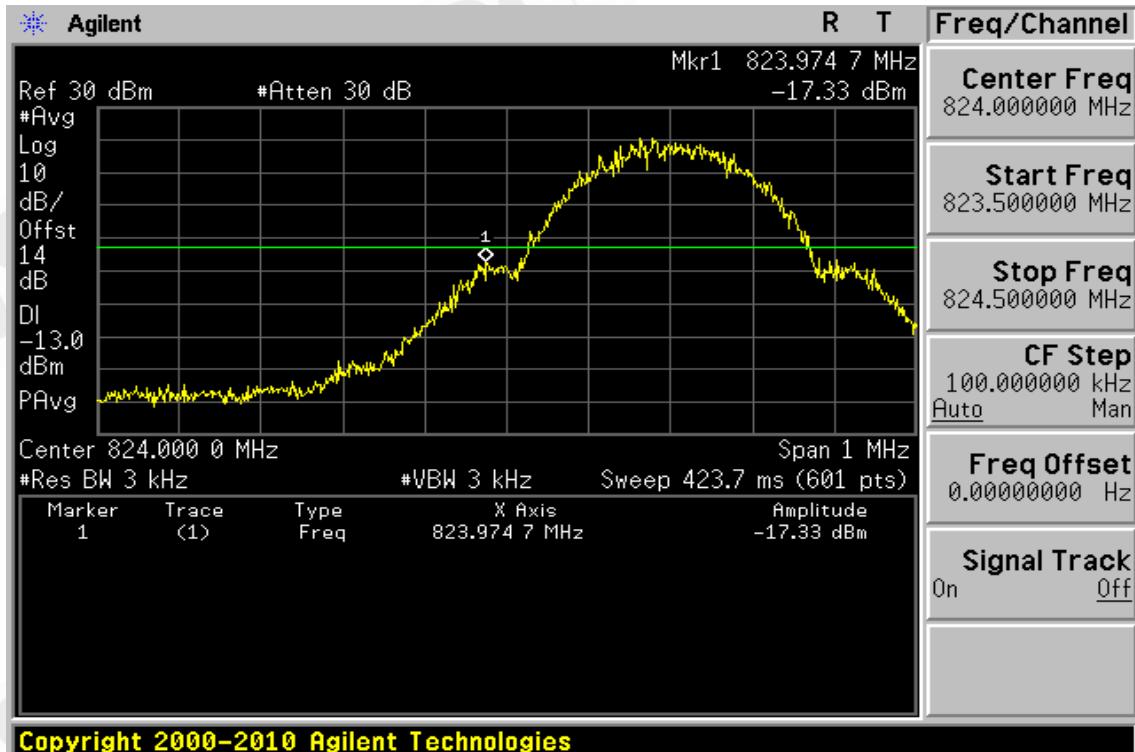
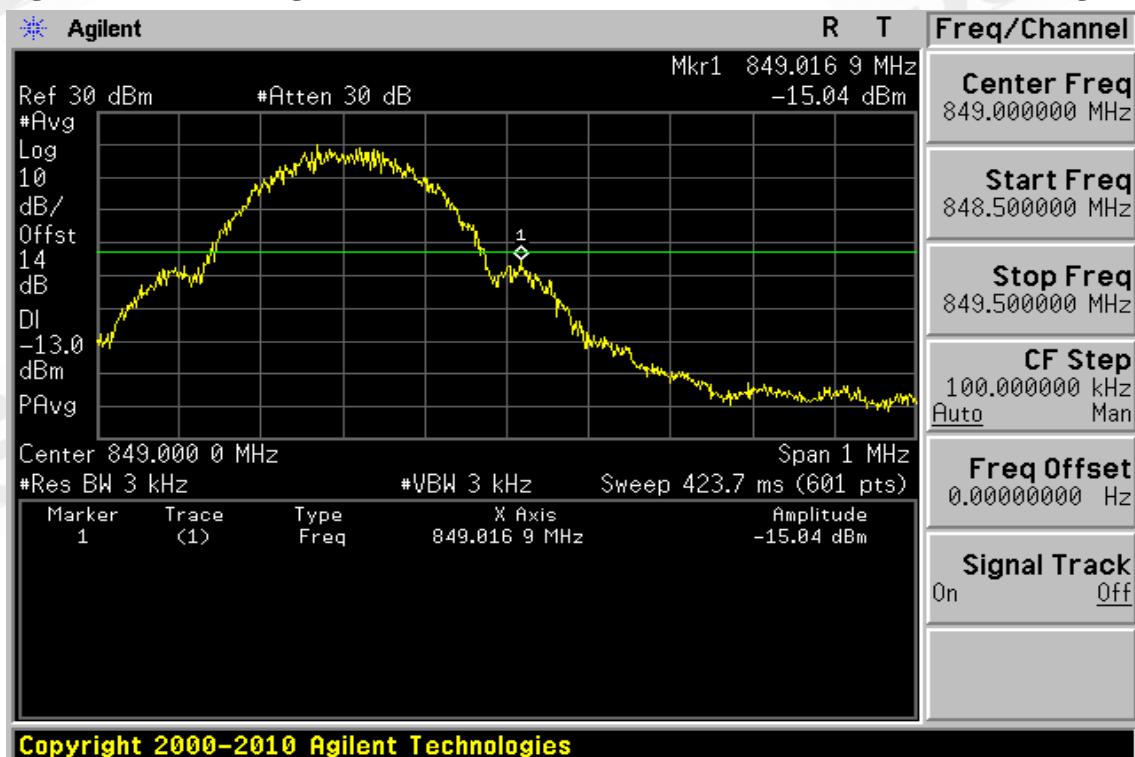


Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest



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Band edge emission at antenna terminals – GPRS 850 Low & High

Test Mode

GPRS 850

Engineer

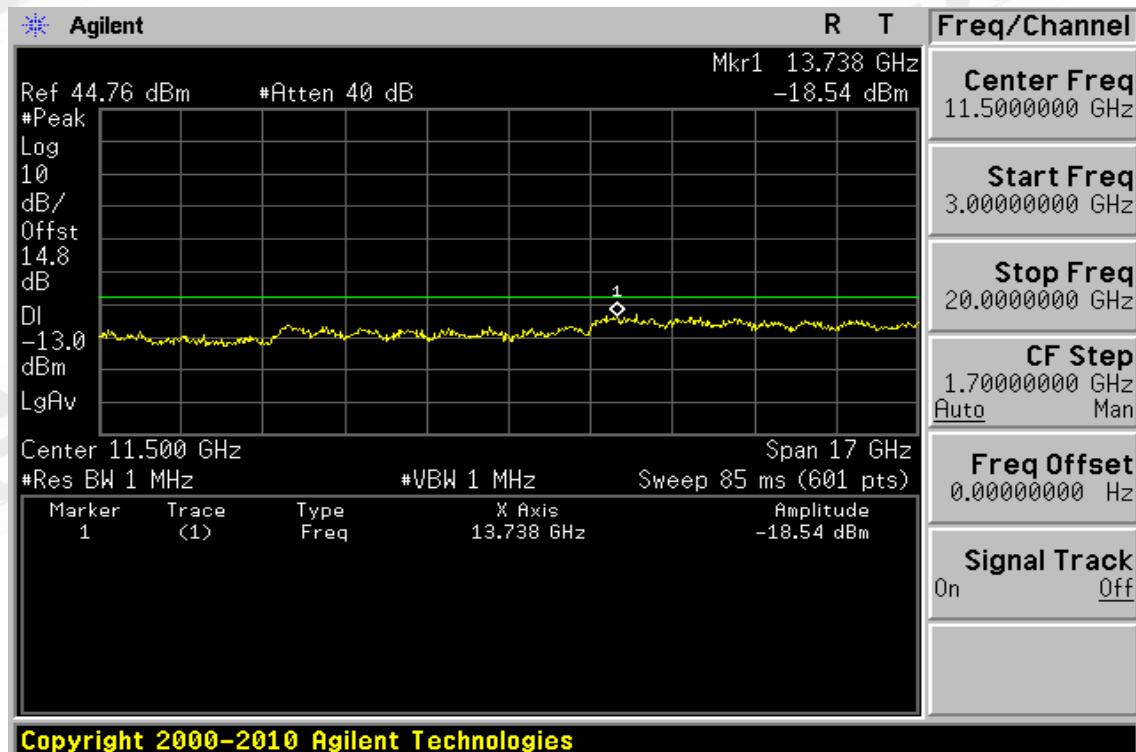
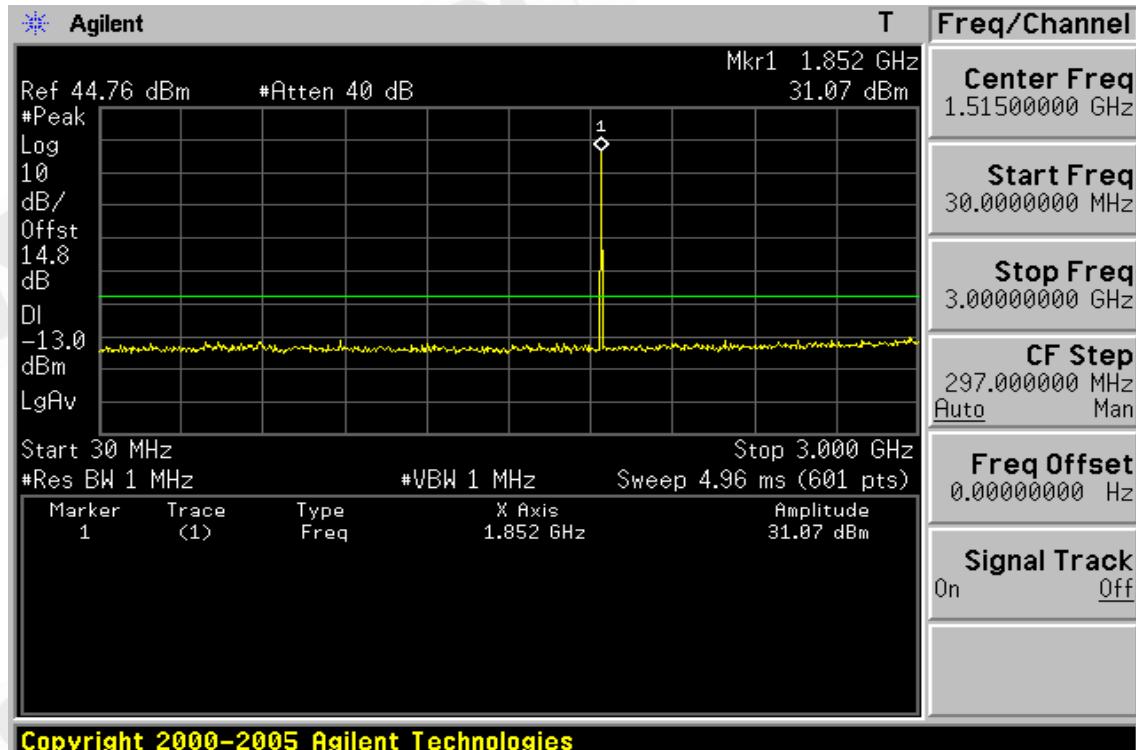
:Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.974	-17.33	-13.00	4.33
849.016	-15.04	-13.00	2.04

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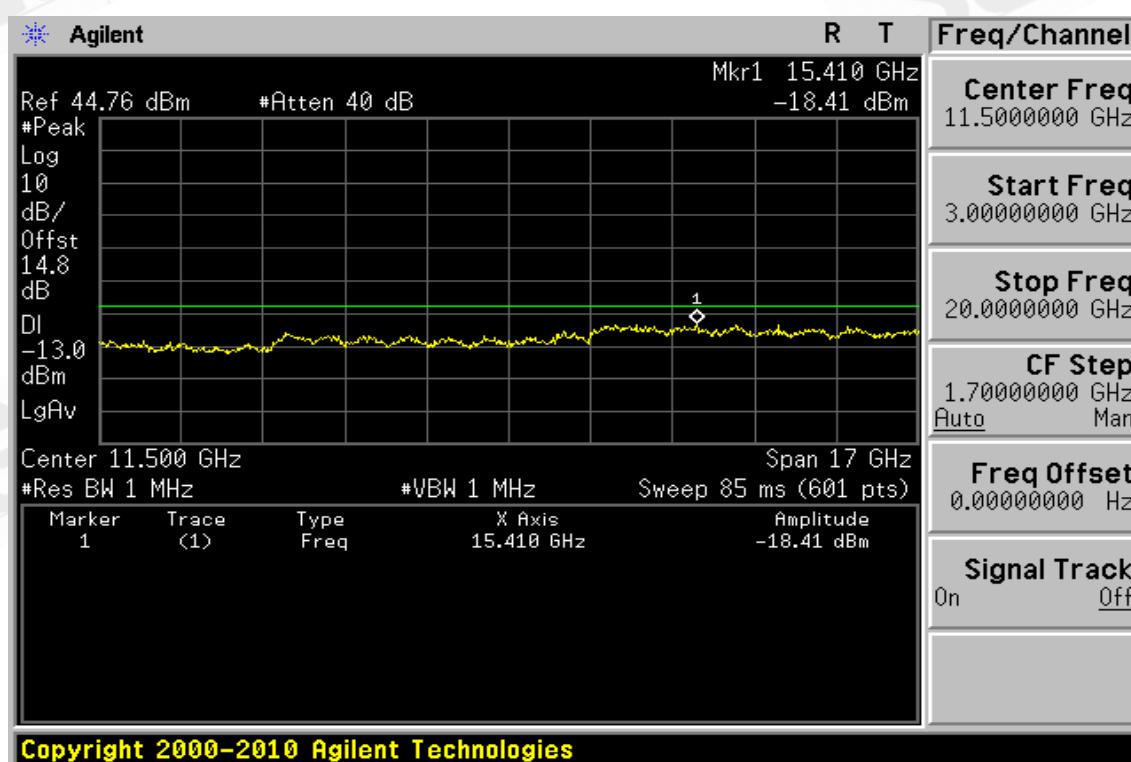
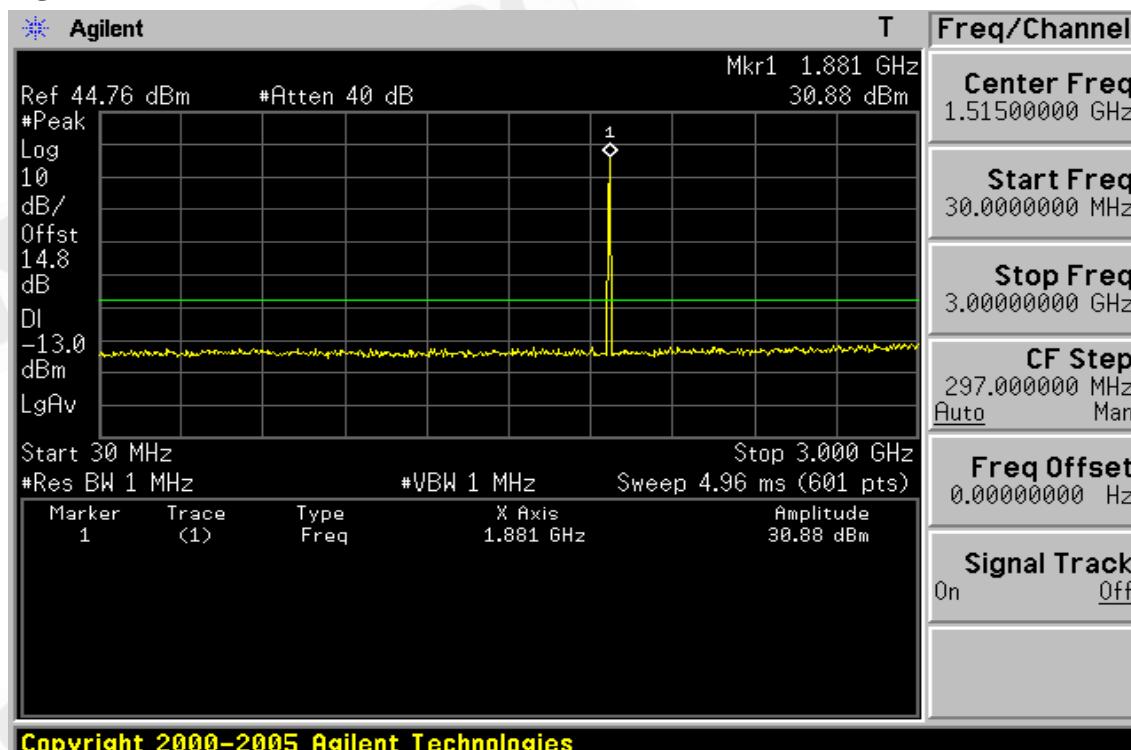
Figure 9-16: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



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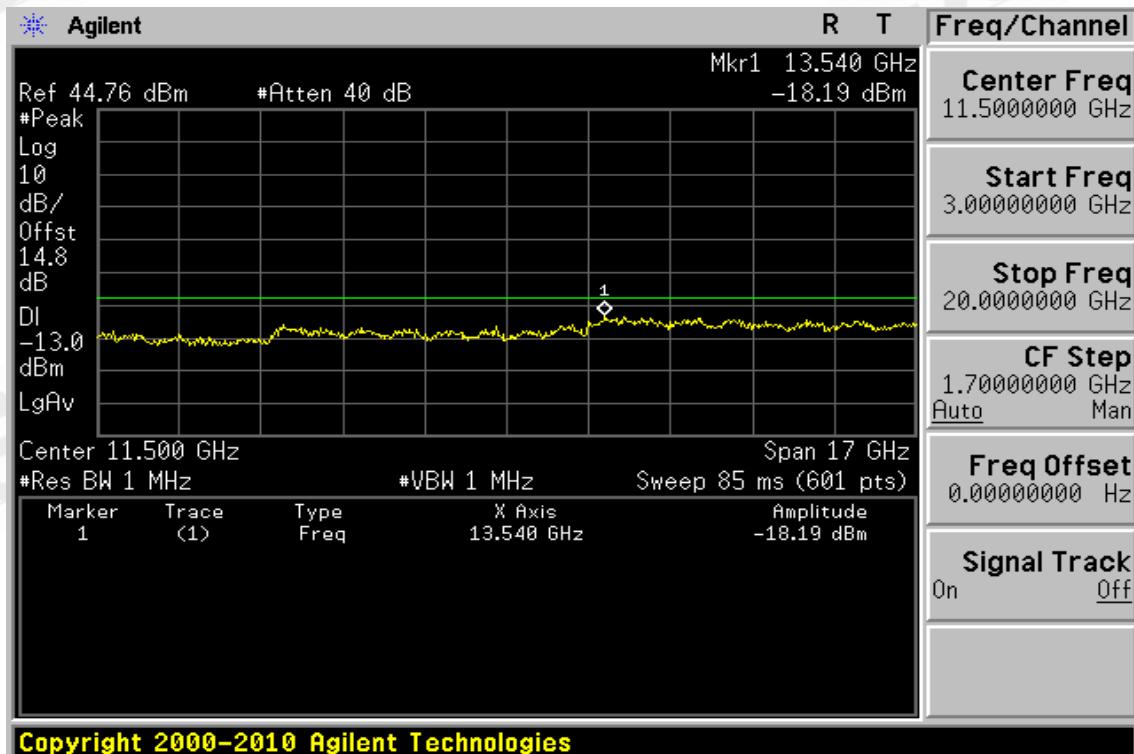
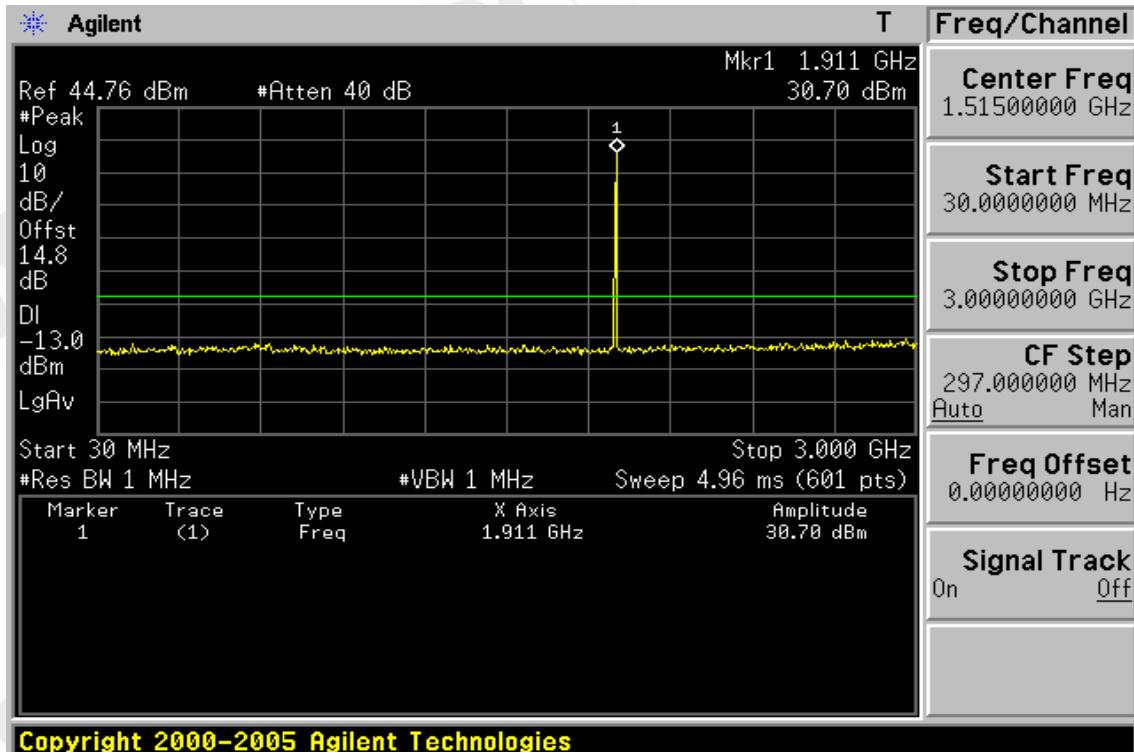
Figure 9-17: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



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Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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Out of Band emission at antenna terminals – GPRS 1900

Fundamental Frequency :1850.2 MHz Engineer :Jay
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3700.40	H	---	-13.00	---
5550.60	H	---	-13.00	---
7400.80	H	---	-13.00	---
9251.00	H	---	-13.00	---
11101.20	H	---	-13.00	---
12951.40	H	---	-13.00	---
13738.00	S	-18.54	-13.00	5.54
14801.60	H	---	-13.00	---
16651.80	H	---	-13.00	---
18502.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz
Operation Mode :TX Mid

Engineer :Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
15410.00	S	-18.41	-13.00	5.41
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz
Operation Mode :TX High

Engineer :Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3819.60	H	---	-13.00	---
5729.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
9549.00	H	---	-13.00	---
11458.80	H	---	-13.00	---
13368.60	H	---	-13.00	---
13540.00	S	-18.19	-13.00	5.19
15278.40	H	---	-13.00	---
17188.20	H	---	-13.00	---
19098.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Figure 9-19: Bad edge emission at antenna terminals – GPRS 1900 Channel Lowest

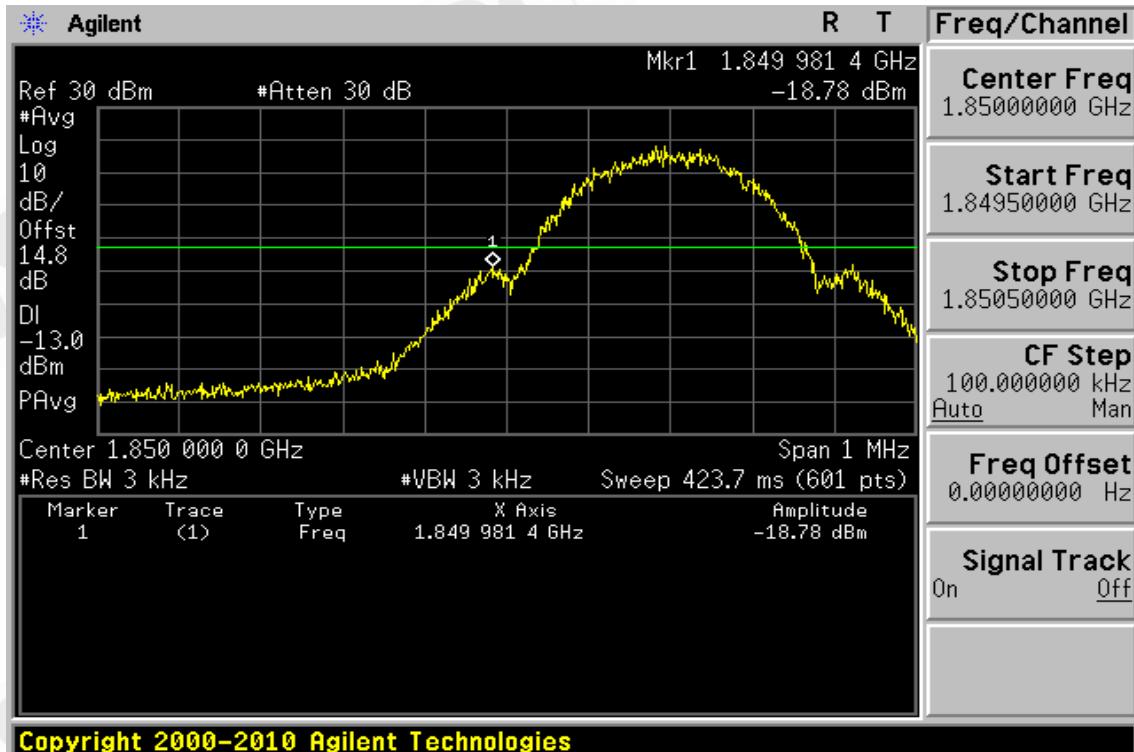
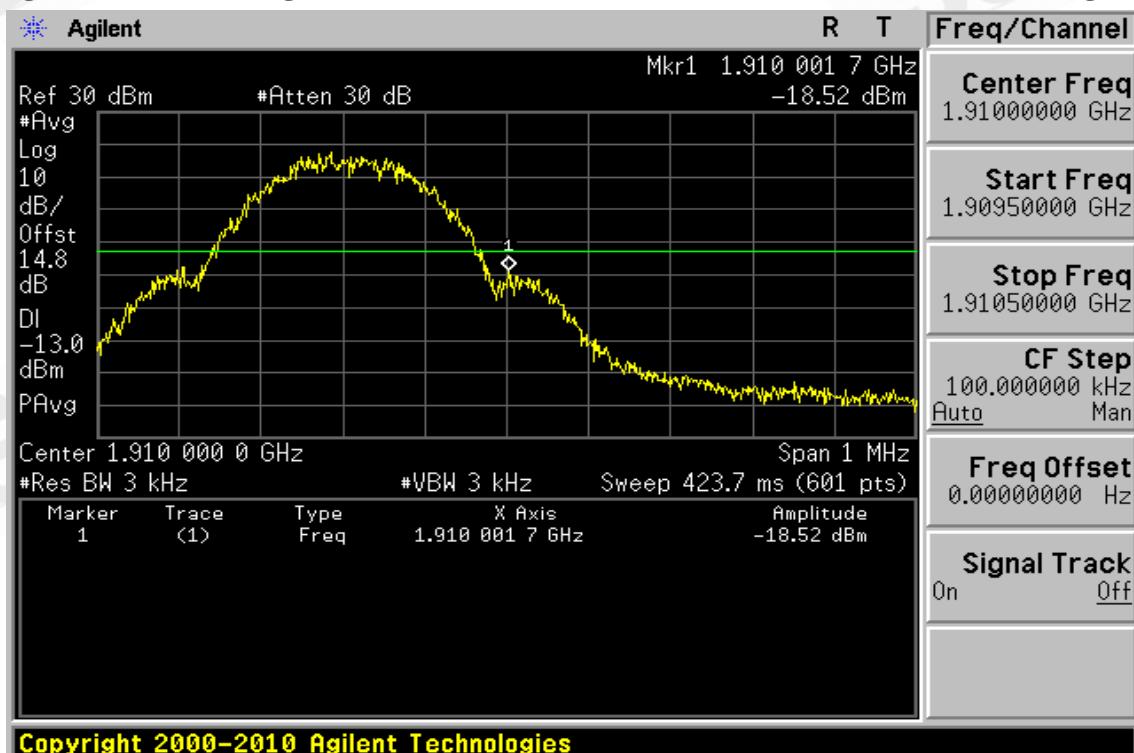


Figure 9-20: Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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Band edge emission at antenna terminals – GPRS 1900 Low & High

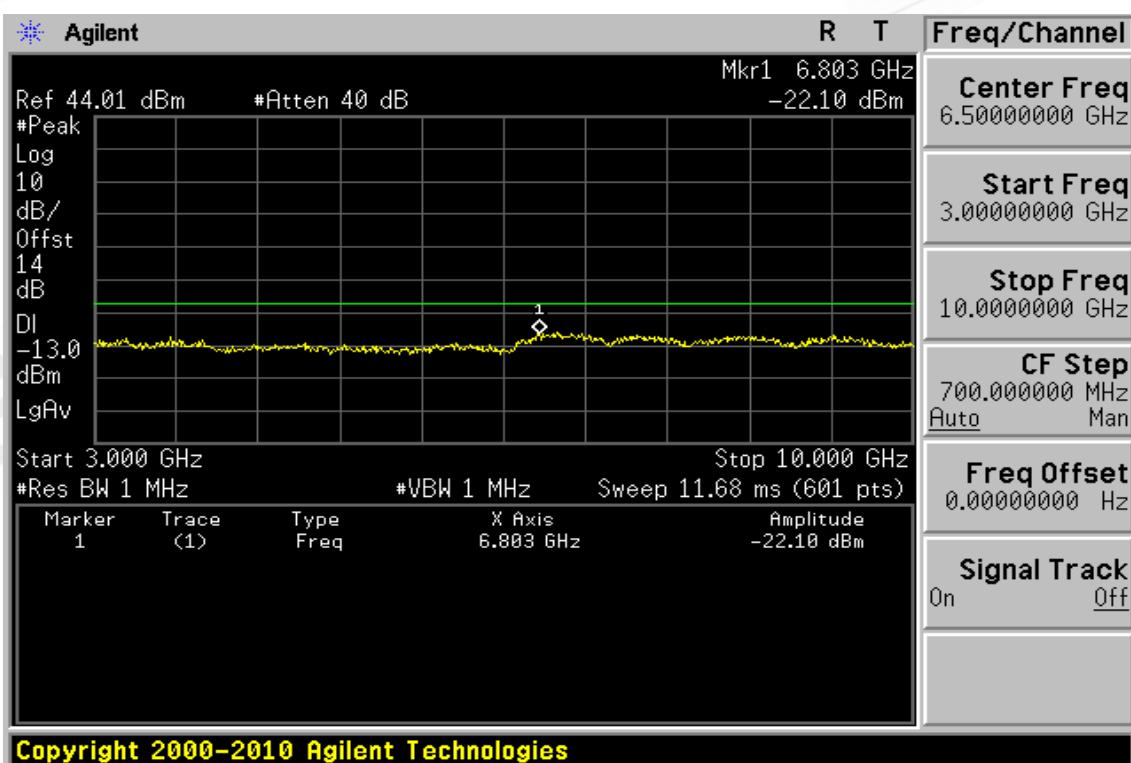
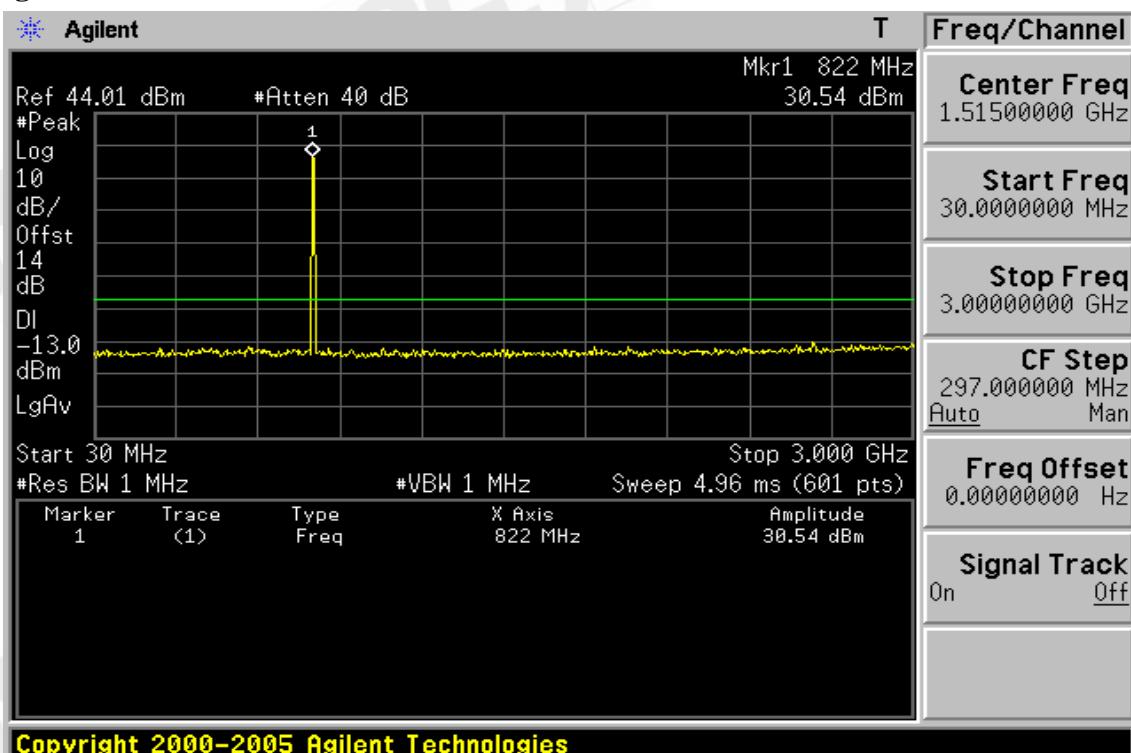
Test Mode GPRS 1900 Engineer :Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.981	-18.78	-13.00	5.78
1910.001	-18.52	-13.00	5.52

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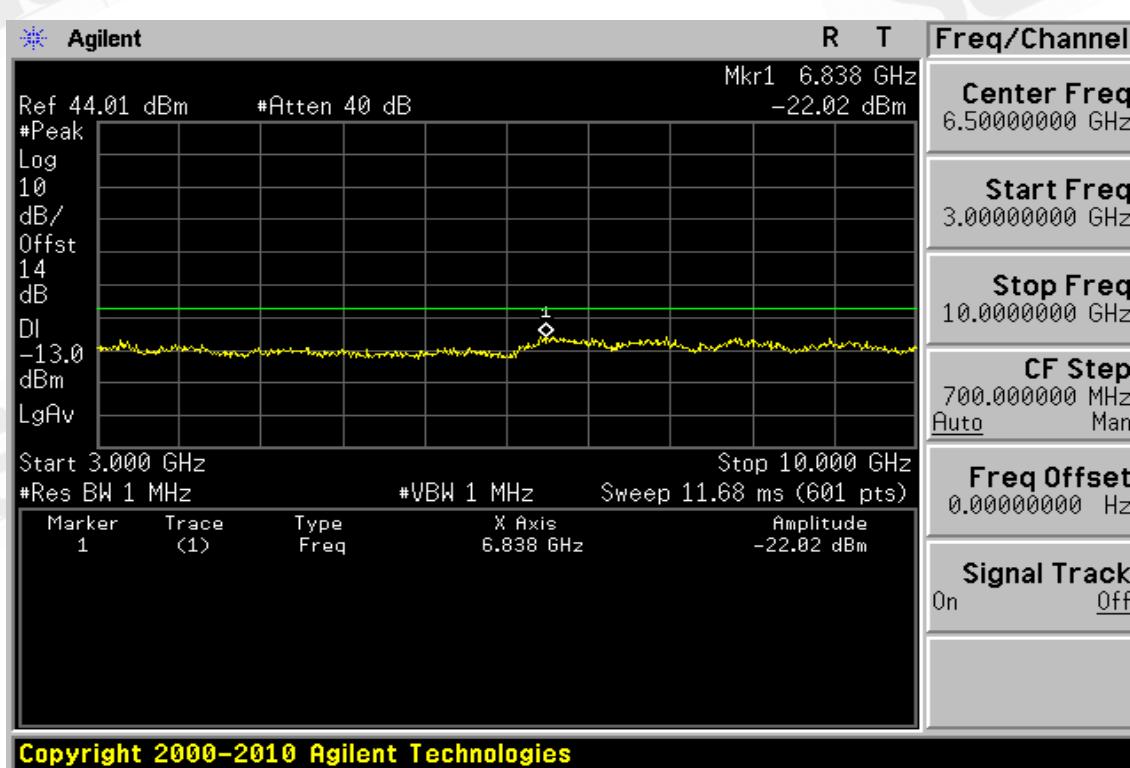
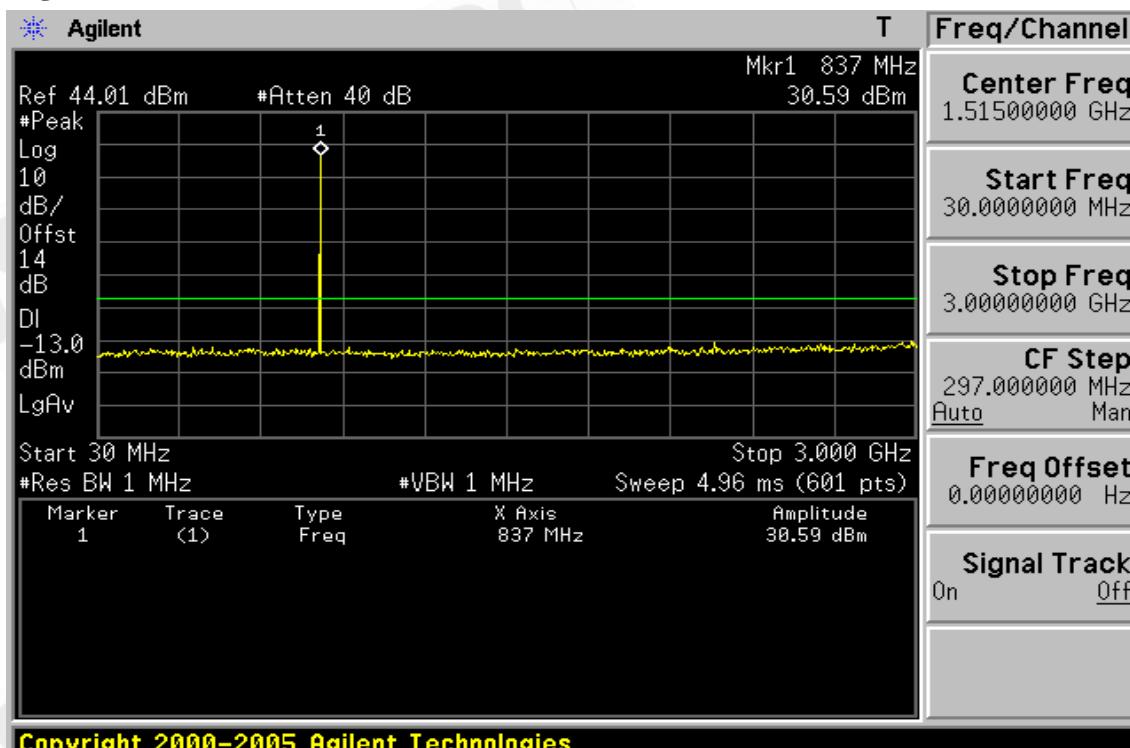
Figure 9-21: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



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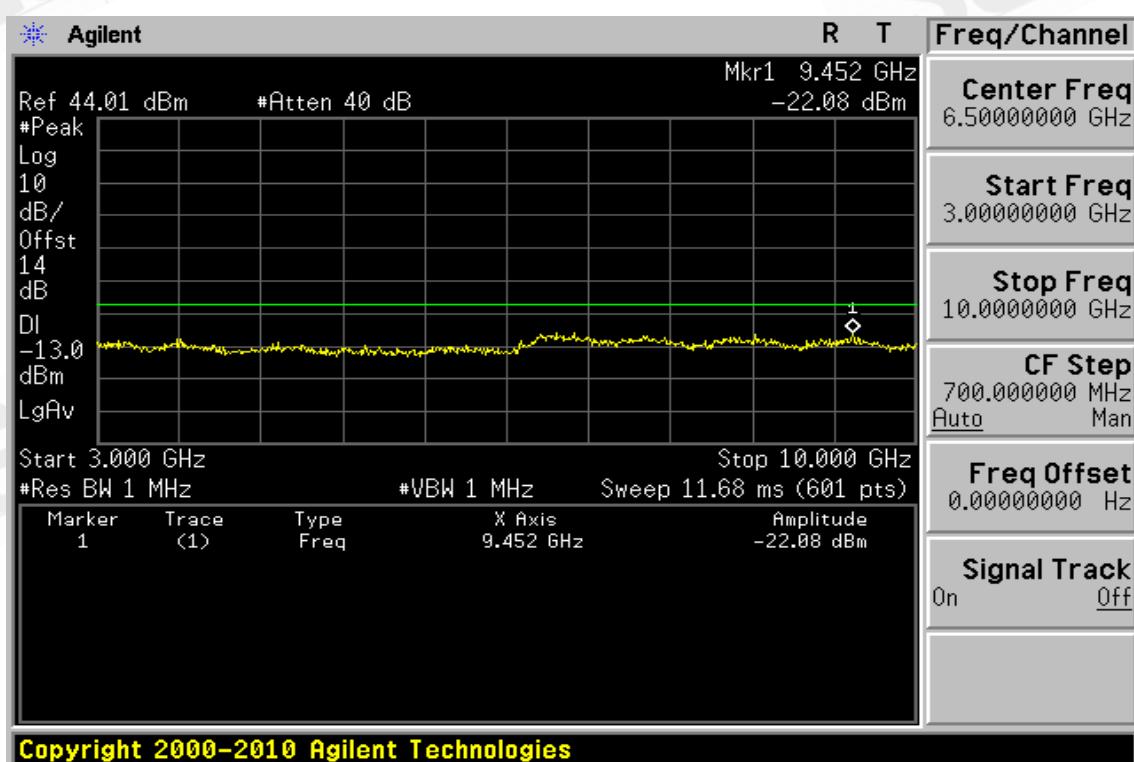
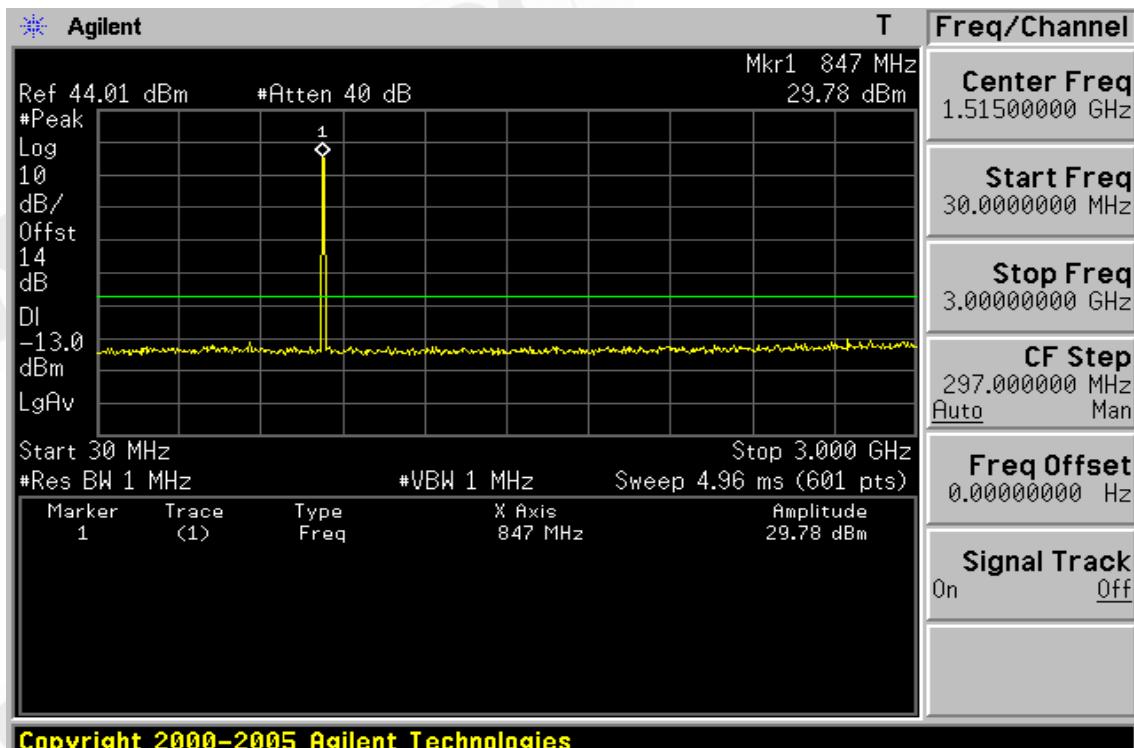
Figure 9-22: Out of Band emission at antenna terminals – EDGE 850 Channel Mid



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Figure 9-23: Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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Out of Band emission at antenna terminals – EDGE 850Fundamental Frequency :824.2 MHz
Operation Mode :TX Low

Engineer

:Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1648.40	H	---	-13.00	---
2472.60	H	---	-13.00	---
3296.80	H	---	-13.00	---
4121.00	H	---	-13.00	---
4945.20	H	---	-13.00	---
5769.40	H	---	-13.00	---
6593.60	H	---	-13.00	---
6803.00	S	-22.10	-13.00	9.10
7417.80	H	---	-13.00	---
8242.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“---” : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz
Operation Mode :TX Mid

Engineer :Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
6692.80	H	---	-13.00	---
6838.00	S	-22.02	-13.00	9.02
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :848.8MHz
Operation Mode :TX High

Engineer :Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1697.60	H	---	-13.00	---
2546.40	H	---	-13.00	---
3395.20	H	---	-13.00	---
4244.00	H	---	-13.00	---
5092.80	H	---	-13.00	---
5941.60	H	---	-13.00	---
6790.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
8488.00	H	---	-13.00	---
9452.00	S	-22.08	-13.00	9.08

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Figure 9-24: Band edge emission at antenna terminals – EDGE 850 Channel Lowest

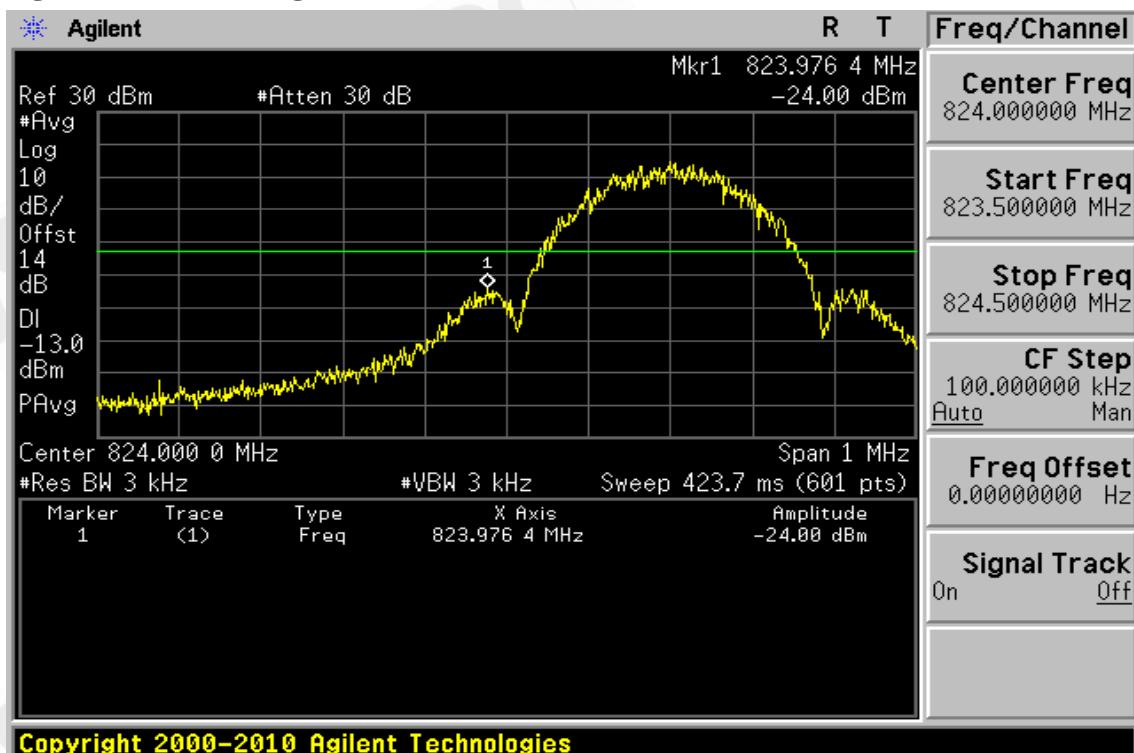
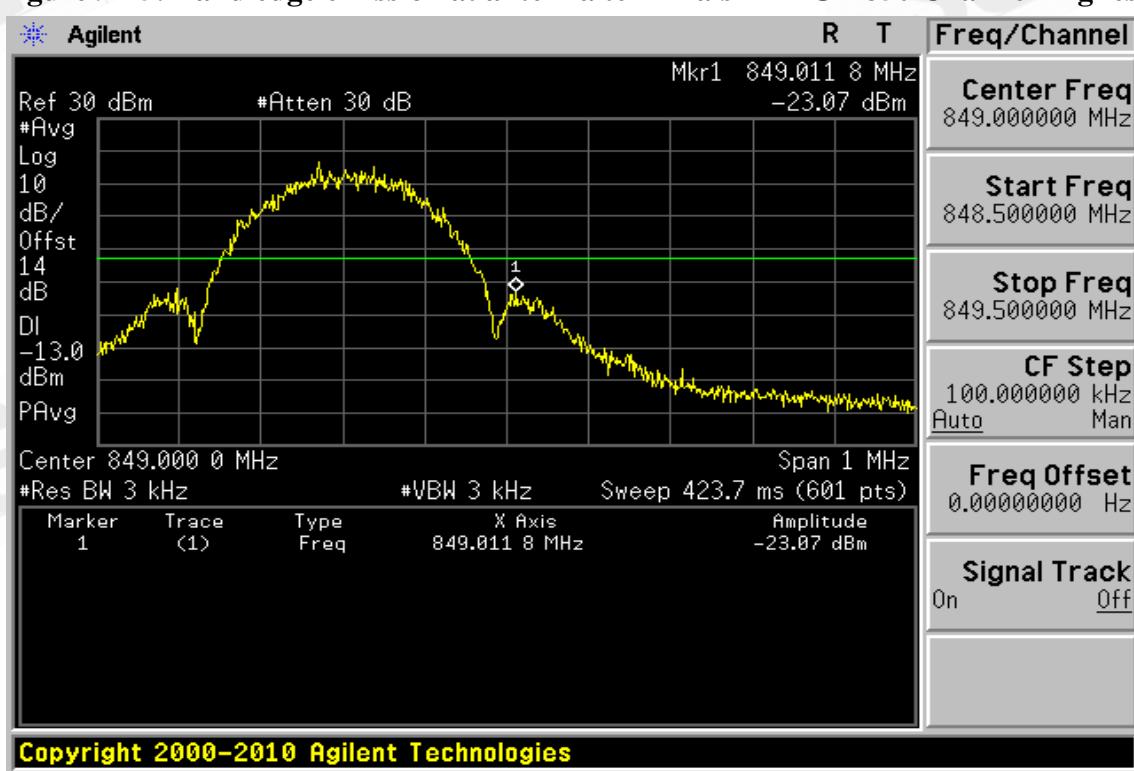


Figure 9-25: Band edge emission at antenna terminals – EDGE 850 Channel Highest



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Band edge emission at antenna terminals – EDGE 850 Low & High

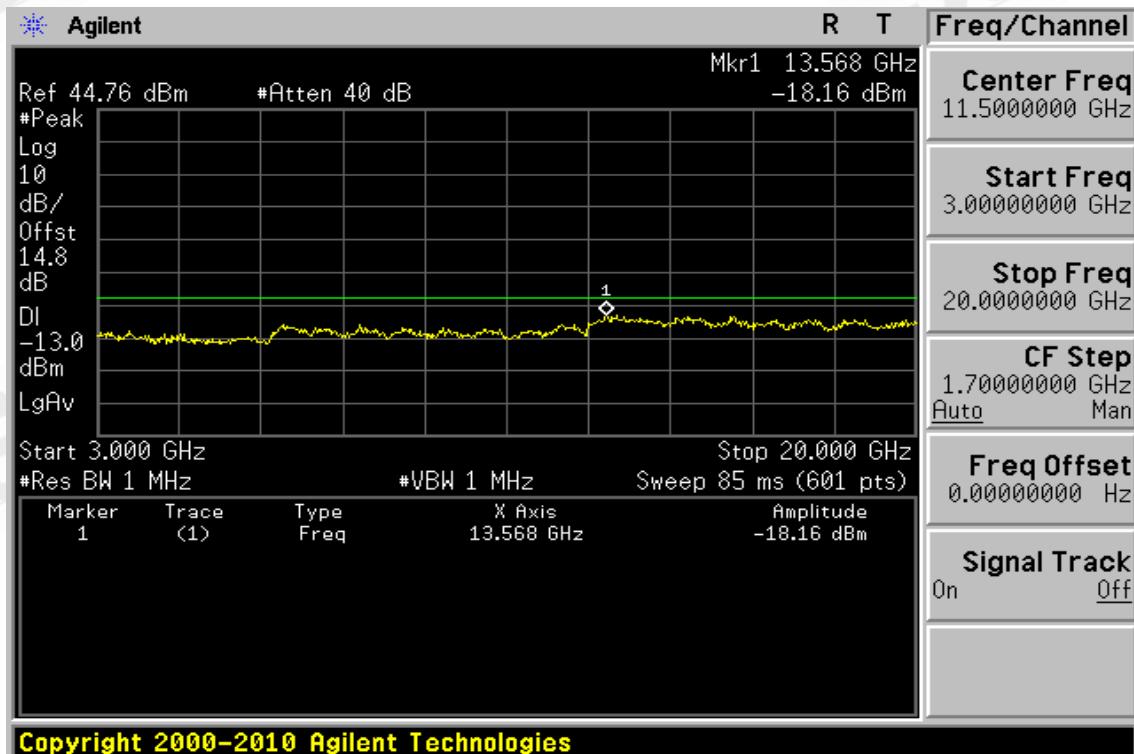
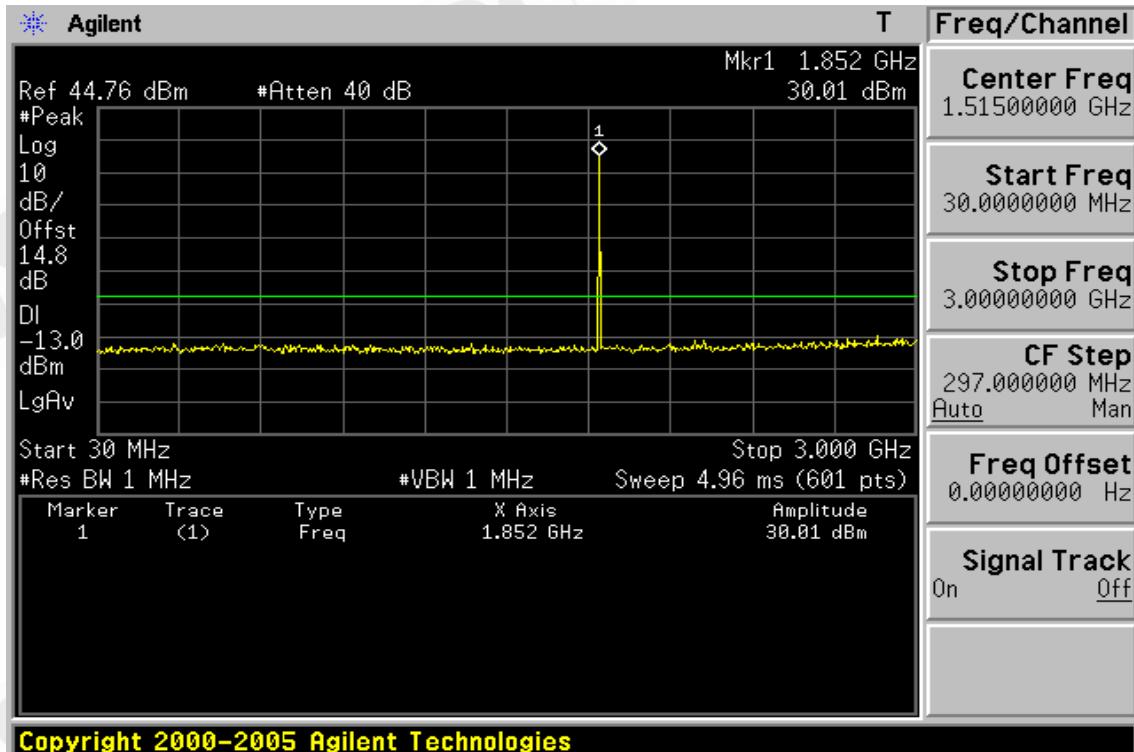
Test Mode EDGE 850 Engineer :Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.976	-24.24	-13.00	11.24
849.011	-23.07	-13.00	10.07

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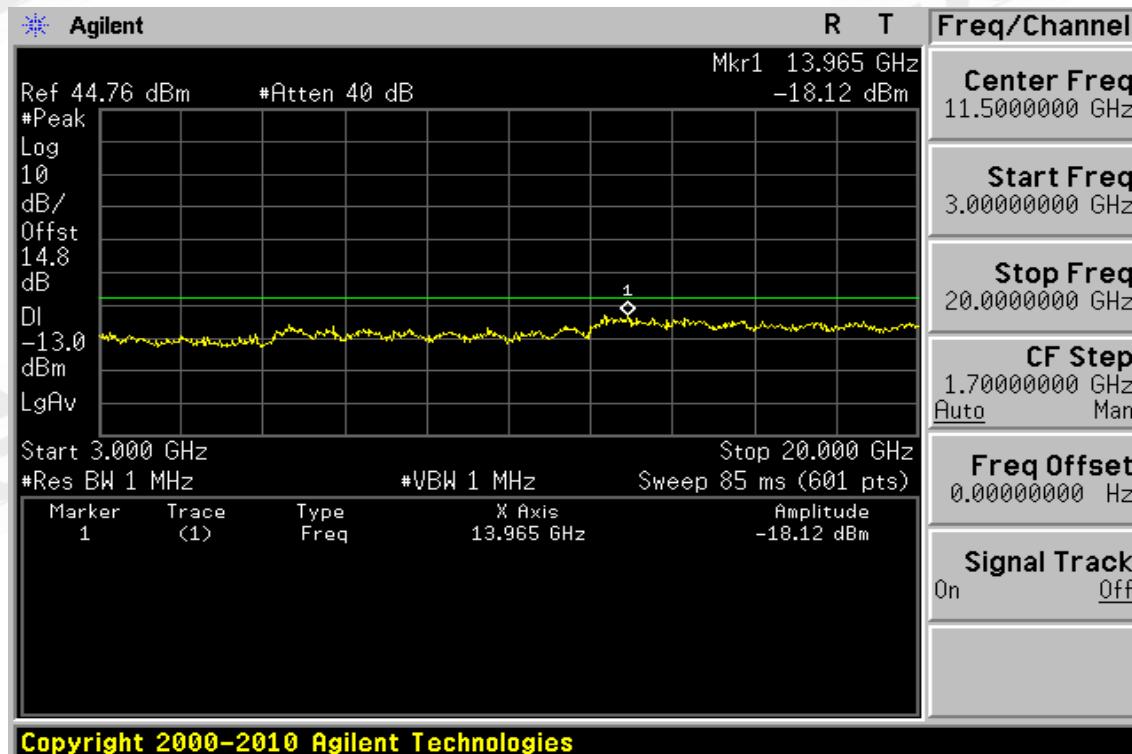
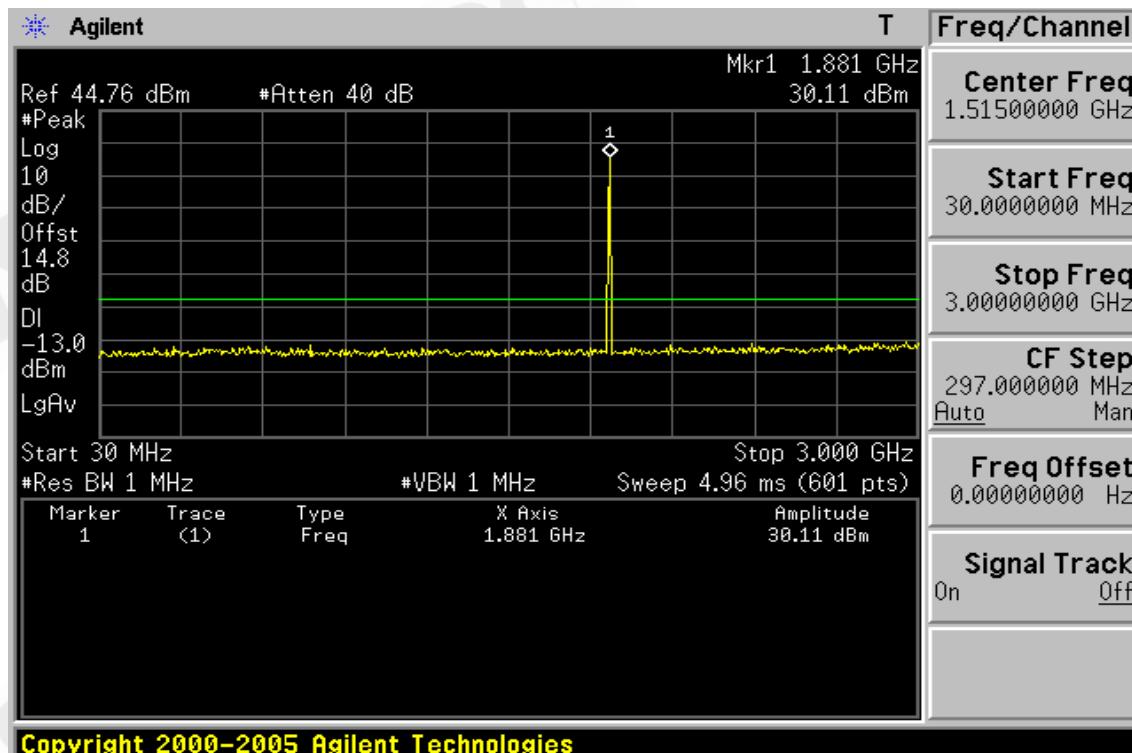
Figure 9-26: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest



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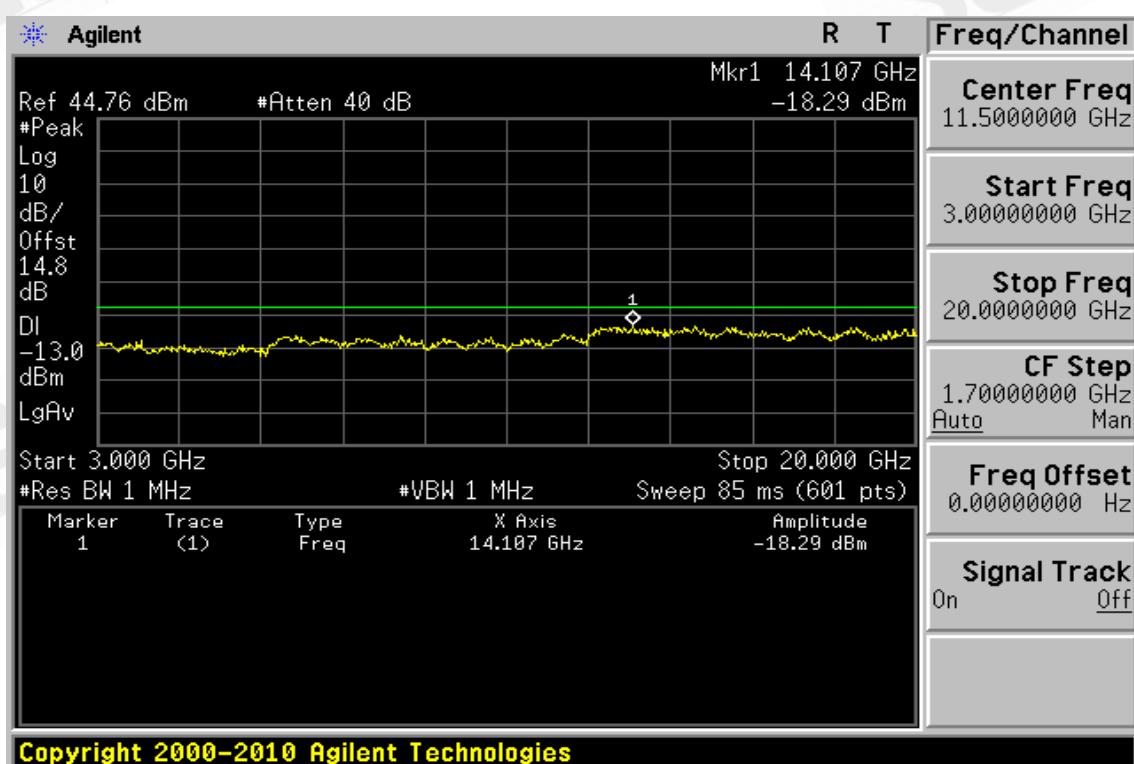
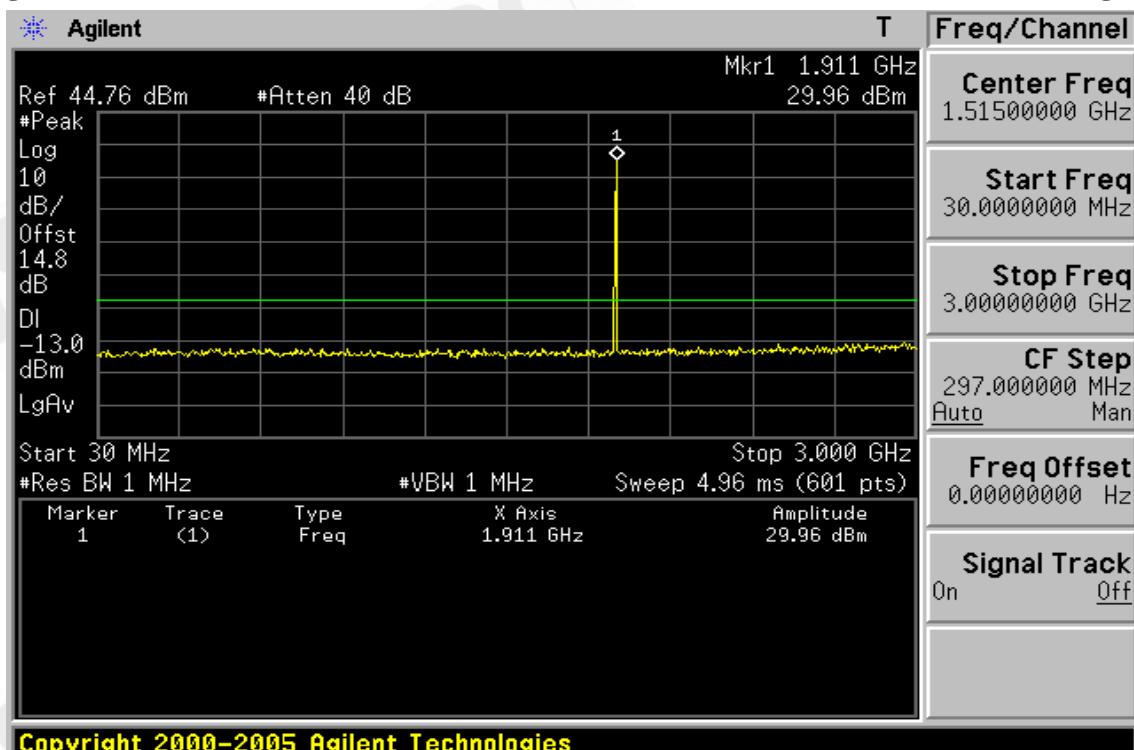
Figure 9-27: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid



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Figure 9-28: Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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Out of Band emission at antenna terminals – EDGE 1900

Fundamental Frequency :1850.2 MHz Engineer :Jay
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3700.40	H	---	-13.00	---
5550.60	H	---	-13.00	---
7400.80	H	---	-13.00	---
9251.00	H	---	-13.00	---
11101.20	H	---	-13.00	---
12951.40	H	---	-13.00	---
13568.00	S	-18.16	-13.00	5.16
14801.60	H	---	-13.00	---
16651.80	H	---	-13.00	---
18502.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz
Operation Mode :TX Mid

Engineer :Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
13965.00	S	-18.12	-13.00	5.12
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz
Operation Mode :TX High

Engineer :Jay

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3819.60	H	---	-13.00	---
5729.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
9549.00	H	---	-13.00	---
11458.80	H	---	-13.00	---
14107.00	H	-18.29	-13.00	5.29
15278.40	H	---	-13.00	---
17188.20	H	---	-13.00	---
19098.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Figure 9-29: Bad edge emission at antenna terminals – EDGE 1900 Channel Lowest

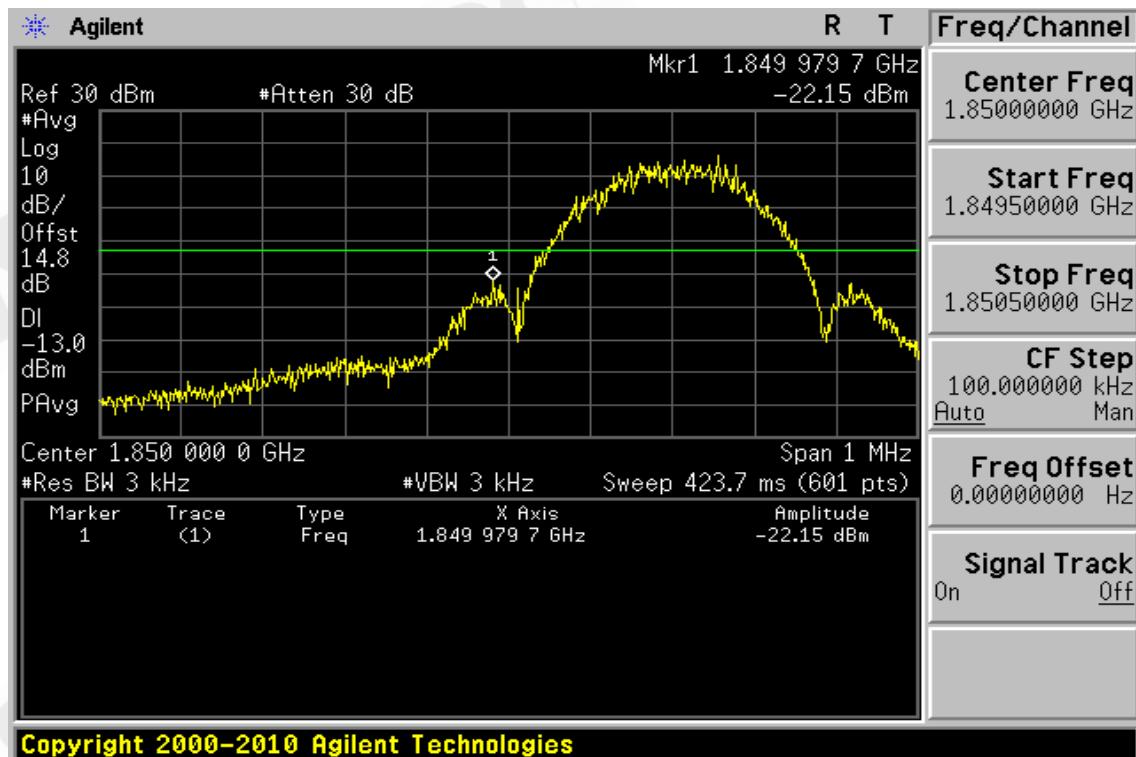
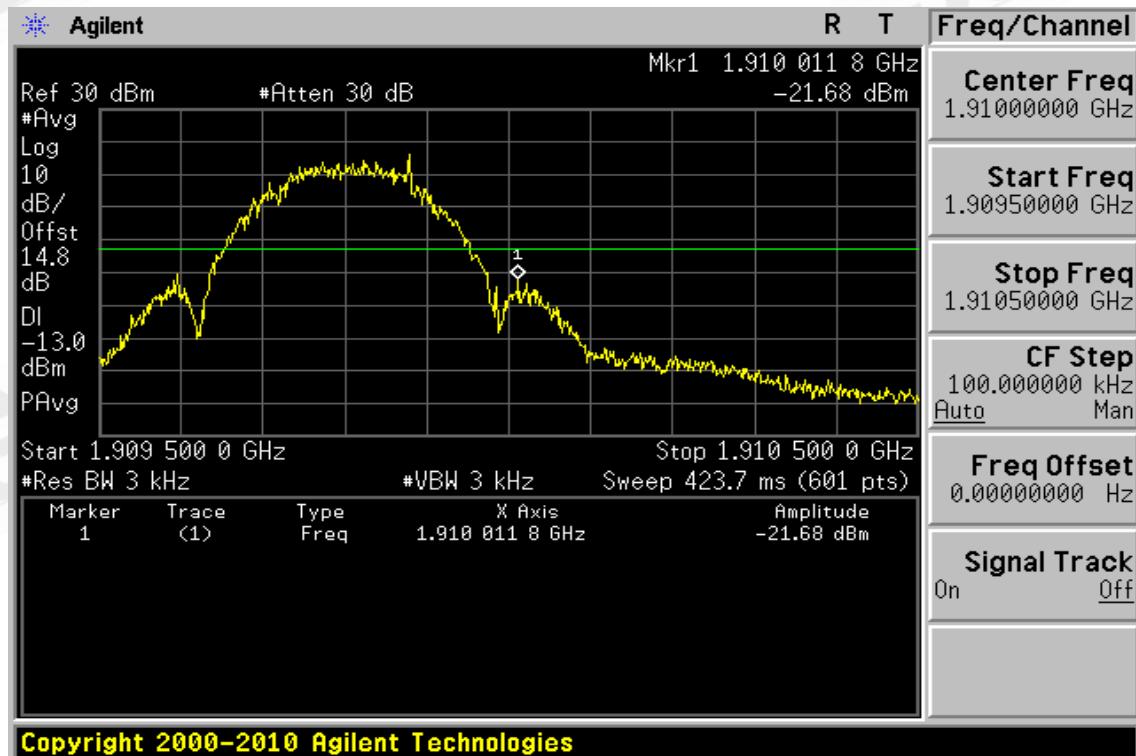


Figure 9-30: Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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Band edge emission at antenna terminals – EDGE 1900 Low & High

Test Mode GSM 1900: Engineer :Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.979	-22.15	-13.00	9.15
1910.011	-26.68	-13.00	13.68

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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. 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.

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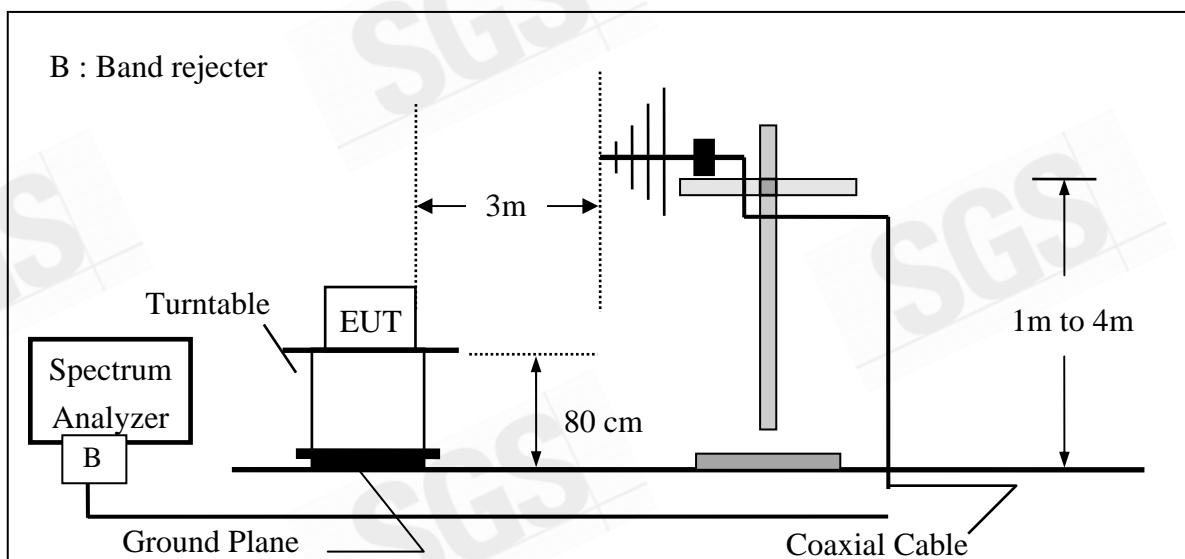
(Note: If the test result using 1% of the emission bandwidth is used, then power integration over 1.0 MHz is required; alternatively, the spectrum analyzer resolution and video bandwidths can be increased to 1.0 MHz for this measurement).

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.

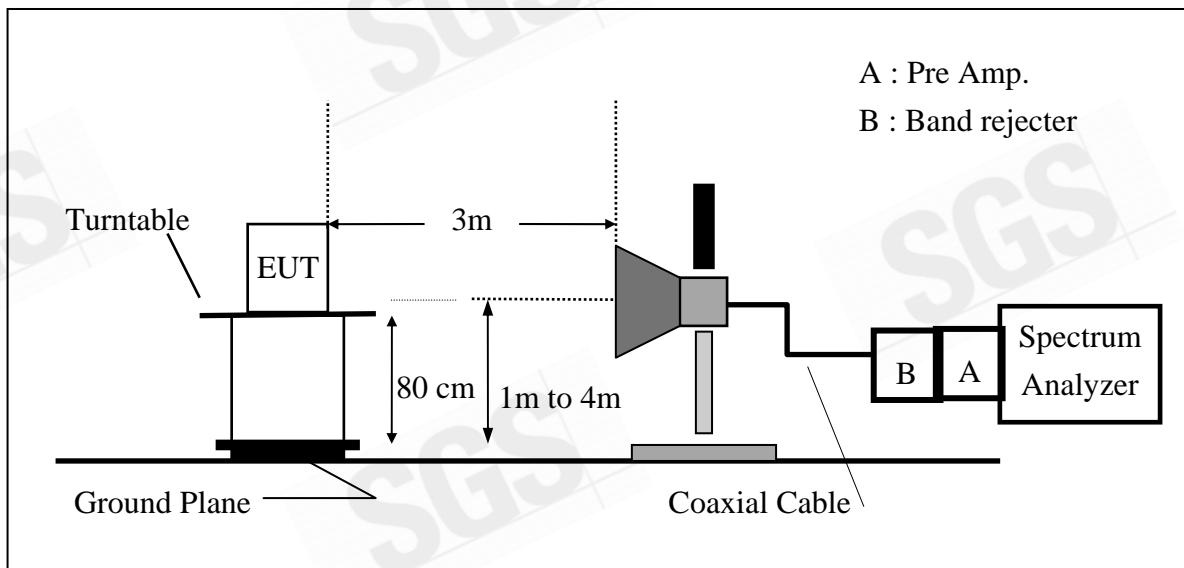
10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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Radiated Emission Test Set-UP Frequency Over 1 GHz**10.3. Measurement Procedure:**

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

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

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

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

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

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

For radiated plot of test data, please refer to Appendix 1, page 112.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Band :GSM 850 Test Date :2012-05-22
ARFCN :CH 128 Temp./Humi. :21 deg_C / 59 RH
Fundamental Frequency :824.2 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
40.67	S	-80.64	-64.61	-13.29	-2.73	-13.00	-67.64
106.63	S	-82.70	-78.94	-1.04	-2.72	-13.00	-69.70
143.49	S	-85.98	-81.94	-1.26	-2.79	-13.00	-72.98
267.65	S	-85.28	-86.60	4.59	-3.27	-13.00	-72.28
420.91	S	-83.56	-84.51	4.61	-3.66	-13.00	-70.56
699.30	S	-78.35	-78.43	4.15	-4.07	-13.00	-65.35
1648.40	H	-57.05	-54.09	2.39	-5.36	-13.00	-44.05
2472.60	H	---					
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---” : denotes Noise Floor.

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Operation Band :GSM 850 Test Date :2012-05-22
ARFCN :CH 128 Temp./Humi. :21 deg_C / 59 RH
Fundamental Frequency :824.2 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E2 Plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
41.64	S	-89.35	-73.52	-13.10	-2.73	-13.00	-76.35
136.70	S	-88.16	-84.23	-1.14	-2.79	-13.00	-75.16
286.08	S	-86.71	-87.99	4.50	-3.22	-13.00	-73.71
461.65	S	-83.96	-84.76	4.53	-3.72	-13.00	-70.96
491.72	S	-83.12	-84.10	4.68	-3.70	-13.00	-70.12
659.53	S	-81.36	-81.34	4.13	-4.14	-13.00	-68.36
1648.40	H	-49.16	-46.48	2.68	-5.36	-13.00	-36.16
2472.60	H	---					
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band :GSM 850 Test Date :2012-05-22
ARFCN :CH 190 Temp./Humi. :21 deg_C / 59 RH
Fundamental Frequency :836.6 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
41.64	S	-80.60	-64.76	-13.10	-2.73	-13.00	-67.60
108.57	S	-83.34	-79.57	-1.06	-2.72	-13.00	-70.34
144.46	S	-85.05	-81.03	-1.24	-2.79	-13.00	-72.05
543.13	S	-80.53	-81.27	4.60	-3.85	-13.00	-67.53
623.64	S	-78.36	-78.46	4.07	-3.97	-13.00	-65.36
711.91	S	-77.90	-77.92	4.00	-3.98	-13.00	-64.90
1673.20	H	-58.54	-55.53	2.33	-5.34	-13.00	-45.54
2509.80	H	-56.96	-54.03	3.19	-6.13	-13.00	-43.96
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band :GSM 850 Test Date :2012-05-22
ARFCN :CH 190 Temp./Humi. :21 deg_C / 59 RH
Fundamental Frequency :836.6 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E2 Plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
41.64	S	-89.74	-73.91	-13.10	-2.73	-13.00	-76.74
101.78	S	-90.06	-86.34	-1.00	-2.72	-13.00	-77.06
195.87	S	-90.74	-91.95	4.29	-3.09	-13.00	-77.74
286.08	S	-86.31	-87.58	4.50	-3.22	-13.00	-73.31
522.76	S	-83.21	-84.12	4.65	-3.74	-13.00	-70.21
762.35	S	-79.24	-78.67	3.62	-4.20	-13.00	-66.24
1673.20	H	-51.60	-48.92	2.66	-5.34	-13.00	-38.60
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band :GSM 850 Test Date :2012-05-22
 ARFCN :CH 251 Temp./Humi. :21 deg_C / 59 RH
 Fundamental Frequency :848.8 MHz Engineer :Jimmy
 Operation Mode :TX
 EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
40.67	S	-80.06	-64.03	-13.29	-2.73	-13.00	-67.06
108.57	S	-82.45	-78.67	-1.06	-2.72	-13.00	-69.45
143.49	S	-85.69	-81.64	-1.26	-2.79	-13.00	-72.69
286.08	S	-84.75	-86.02	4.50	-3.22	-13.00	-71.75
486.87	S	-82.28	-83.23	4.65	-3.70	-13.00	-69.28
628.49	S	-78.84	-78.95	4.08	-3.97	-13.00	-65.84
1697.60	H	-56.95	-53.84	2.29	-5.40	-13.00	-43.95
2546.40	H	-56.13	-53.20	3.30	-6.24	-13.00	-43.13
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band :GSM 850 Test Date :2012-05-22
ARFCN :CH 251 Temp./Humi. :21 deg_C / 59 RH
Fundamental Frequency :848.8 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E2 Plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
41.64	S	-88.90	-73.06	-13.10	-2.73	-13.00	-75.90
129.91	S	-89.07	-85.57	-0.72	-2.79	-13.00	-76.07
286.08	S	-86.57	-87.85	4.50	-3.22	-13.00	-73.57
388.90	S	-84.66	-85.81	4.71	-3.56	-13.00	-71.66
552.83	S	-82.24	-82.94	4.55	-3.85	-13.00	-69.24
923.37	S	-76.92	-76.06	3.64	-4.50	-13.00	-63.92
1697.60	H	-48.00	-45.25	2.65	-5.40	-13.00	-35.00
2546.40	H	-56.88	-54.31	3.66	-6.24	-13.00	-43.88
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Band :GPRS 1900 Test Date :2012-05-22
 ARFCN :CH 512 Temp./Humi. :21 deg_C / 59 RH
 Fundamental Frequency :1850.2 MHz Engineer :Jimmy
 Operation Mode :TX
 EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm				
41.64	S	-78.75	-65.07	-10.95	-2.73	-13.00	-65.75
107.60	S	-81.27	-79.65	1.10	-2.72	-13.00	-68.27
199.75	S	-80.11	-83.88	6.85	-3.09	-13.00	-67.11
286.08	S	-82.81	-86.24	6.65	-3.22	-13.00	-69.81
533.43	S	-79.14	-82.14	6.77	-3.77	-13.00	-66.14
765.26	S	-76.36	-77.95	5.80	-4.20	-13.00	-63.36
3700.40	H	-54.72	-55.15	7.40	-6.98	-13.00	-41.72
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

$$\text{EIRP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Operation Band :GPRS 1900
 ARFCN :CH 512
 Fundamental Frequency :1850.2 MHz
 Operation Mode :TX
 EUT Pol. :E1 Plan

Test Date :2012-05-22
 Temp./Humi. :21 deg_C / 59 RH
 Engineer :Jimmy
 Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
46.49	S	-86.83	-74.26	-9.84	-2.73	-13.00	-73.83
114.39	S	-87.94	-86.12	0.95	-2.77	-13.00	-74.94
198.78	S	-84.80	-88.47	6.75	-3.09	-13.00	-71.80
286.08	S	-84.81	-88.24	6.65	-3.22	-13.00	-71.81
548.95	S	-81.41	-84.29	6.73	-3.85	-13.00	-68.41
797.27	S	-77.21	-79.04	6.03	-4.20	-13.00	-64.21
3700.40	H	-55.41	-55.34	6.92	-6.98	-13.00	-42.41
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

$$\text{EIRP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band :GPRS 1900 Test Date :2012-05-22
ARFCN :CH 661 Temp./Humi. :21 deg_C / 59 RH
Fundamental Frequency :1880.0 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
40.67	S	-79.11	-65.23	-11.14	-2.73	-13.00	-66.11
107.60	S	-81.57	-79.95	1.10	-2.72	-13.00	-68.57
198.78	S	-79.29	-82.95	6.75	-3.09	-13.00	-66.29
286.08	S	-82.66	-86.08	6.65	-3.22	-13.00	-69.66
535.37	S	-78.98	-81.99	6.77	-3.77	-13.00	-65.98
788.54	S	-76.58	-78.39	5.97	-4.16	-13.00	-63.58
3760.00	H	-54.57	-54.88	7.42	-7.12	-13.00	-41.57
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

$$\text{EIRP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band :GPRS 1900 Test Date :2012-05-22
ARFCN :CH 661 Temp./Humi. :21 deg_C / 59 RH
Fundamental Frequency :1880.0 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
41.64	S	-87.09	-73.41	-10.95	-2.73	-13.00	-74.09
112.45	S	-87.72	-85.96	1.00	-2.77	-13.00	-74.72
199.75	S	-83.15	-86.92	6.85	-3.09	-13.00	-70.15
286.08	S	-84.11	-87.54	6.65	-3.22	-13.00	-71.11
501.42	S	-81.65	-84.81	6.87	-3.70	-13.00	-68.65
794.36	S	-77.15	-78.96	6.01	-4.20	-13.00	-64.15
3760.00	H	-56.03	-55.76	6.85	-7.12	-13.00	-43.03
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

$$\text{EIRP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band :GPRS 1900 Test Date :2012-05-22
ARFCN :CH 810 Temp./Humi. :21 deg_C / 59 RH
Fundamental Frequency :1909.8 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
40.67	S	-78.76	-64.89	-11.14	-2.73	-13.00	-65.76
106.63	S	-81.36	-79.75	1.11	-2.72	-13.00	-68.36
198.78	S	-79.38	-83.05	6.75	-3.09	-13.00	-66.38
290.93	S	-82.53	-85.98	6.71	-3.25	-13.00	-69.53
548.95	S	-79.24	-82.12	6.73	-3.85	-13.00	-66.24
793.39	S	-76.20	-78.04	6.00	-4.16	-13.00	-63.20
3819.60	H	-54.33	-54.65	7.51	-7.20	-13.00	-41.33
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

$$\text{EIRP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band :GPRS 1900
 ARFCN :CH 810
 Fundamental Frequency :1909.8 MHz
 Operation Mode :TX
 EUT Pol. :E1 Plan

Test Date :2012-05-22
 Temp./Humi. :21 deg_C / 59 RH
 Engineer :Jimmy
 Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit	Safe
						Margin dB	
59.10	S	-88.99	-80.03	-6.37	-2.59	-13.00	-75.99
113.42	S	-88.51	-86.72	0.97	-2.77	-13.00	-75.51
199.75	S	-84.17	-87.94	6.85	-3.09	-13.00	-71.17
286.08	S	-83.38	-86.81	6.65	-3.22	-13.00	-70.38
536.34	S	-80.99	-83.99	6.77	-3.77	-13.00	-67.99
789.51	S	-76.82	-78.64	5.97	-4.16	-13.00	-63.82
3819.60	H	-56.57	-56.42	7.05	-7.20	-13.00	-43.57
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

$$\text{EIRP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

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

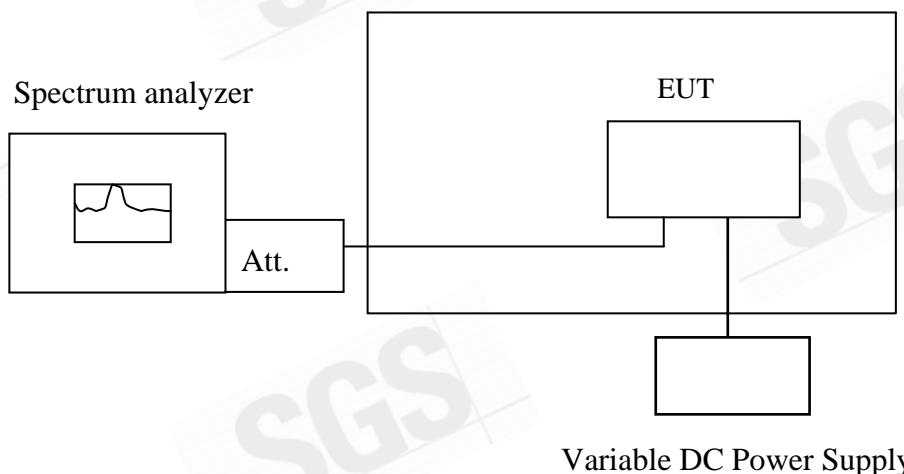
+/-2.5ppm for 1900MHz band

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:

Temperature Chamber



Note : Measurement setup for testing on Antenna connector

11.3. 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 25oC operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30oC. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10oC increased per stage until the highest temperature of +50oC reached.

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5. Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	-30	836.599985	7.00	2091
3.7	-20	836.599990	2.00	2091
3.7	-10	836.599993	-1.00	2091
3.7	0	836.599990	2.00	2091
3.7	10	836.599990	2.00	2091
3.7	20	836.599992	0.00	2091
3.7	30	836.599990	2.00	2091
3.7	40	836.599994	-2.00	2091
3.7	50	836.599985	7.00	2091

Reference Frequency: GPRS 1900Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	-30	1879.999984	8.00	4700
3.7	-20	1879.999990	2.00	4700
3.7	-10	1879.999991	1.00	4700
3.7	0	1879.999989	3.00	4700
3.7	10	1879.999990	2.00	4700
3.7	20	1879.999992	0.00	4700
3.7	30	1879.999993	-1.00	4700
3.7	40	1879.999989	3.00	4700
3.7	50	1879.999983	9.00	4700

Note: The battery is rated 3.7V dc.

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12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(a) (1)

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.

12.2. Test Set-up:

Refer to section 11.2 in this report

12.3. Measurement Procedure:

Set chamber temperature to 25 $^{\circ}$ 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.

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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12.5. Measurement Result:

Reference Frequency: GSM 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.2	25.00	836.599990	5.00	2091.00
3.7	25.00	836.599995	0.00	2091.00
3.3	25.00	836.599987	8.00	2091.00
3.2 (End Point)	25.00	836.599993	2.00	2091.00

Reference Frequency: GSM 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.2	25.00	1879.999993	-3.00	4700
3.7	25.00	1879.99999	0.00	4700
3.3	25.00	1879.999996	-6.00	4700
3.2 (End Point)	25.00	1879.999997	-7.00	4700

Note: The battery is rated 3.7V dc.

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APPENDIX 1

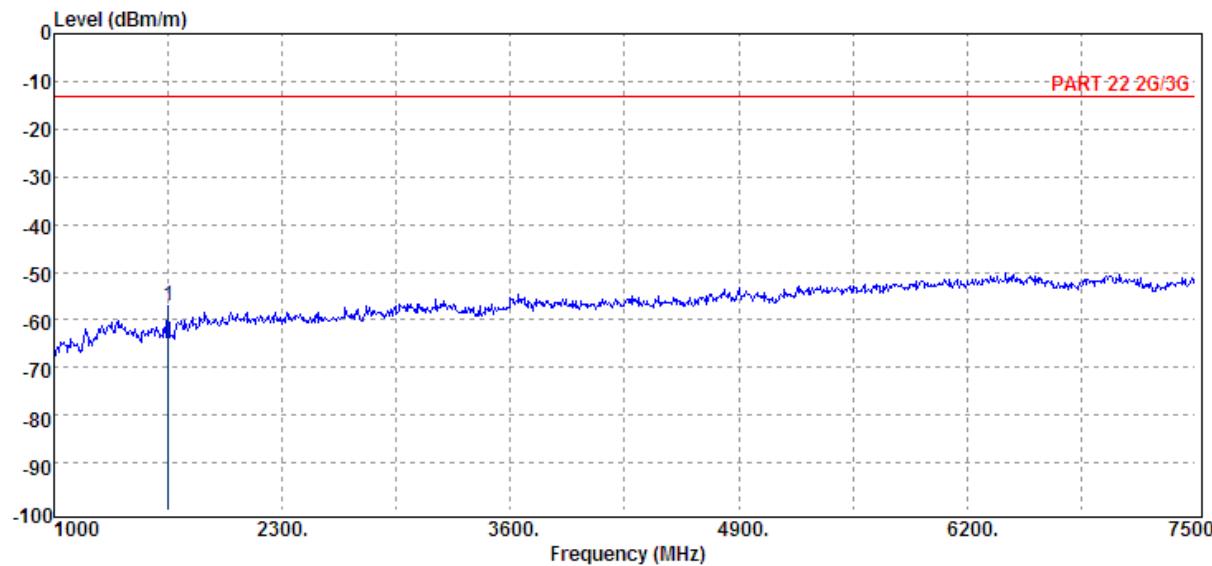
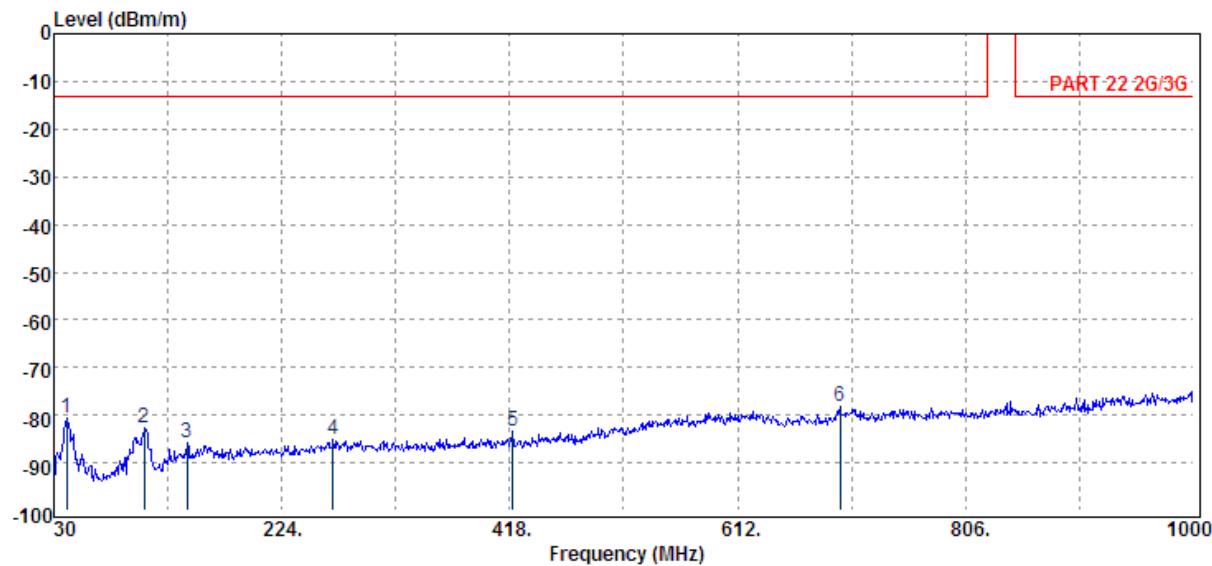
MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

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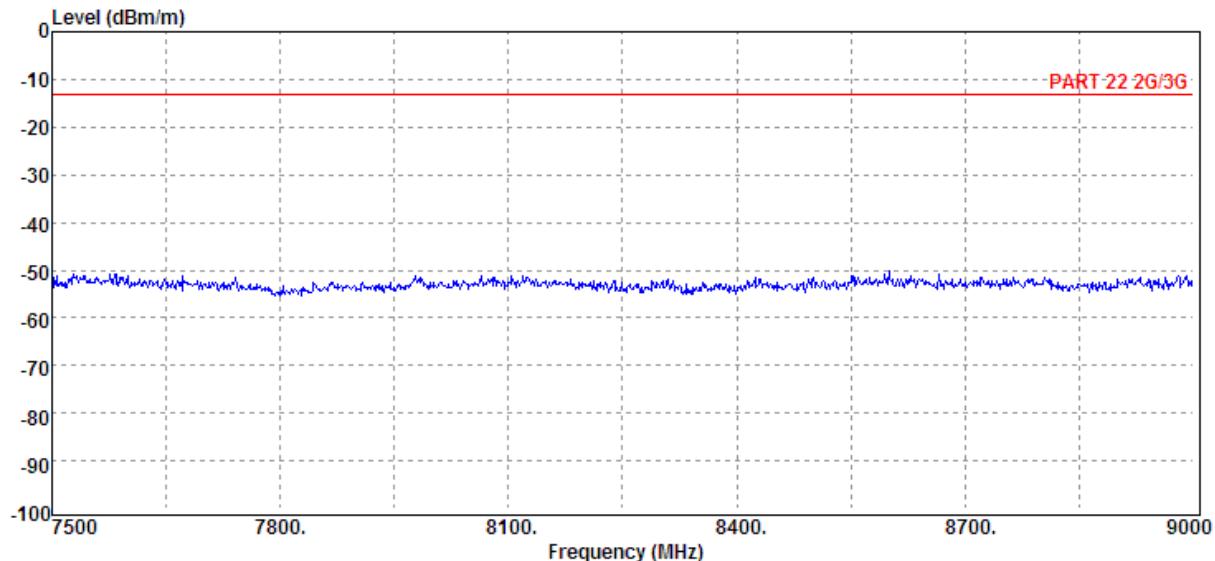
Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Band	:GSM 850	Test Date	:2012-05-22
ARFCN	:CH 128	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Jimmy
Operation Mode	:TX	Measurement Antenna Pol. :VERTICAL	
EUT Pol.	:E2 Plan		



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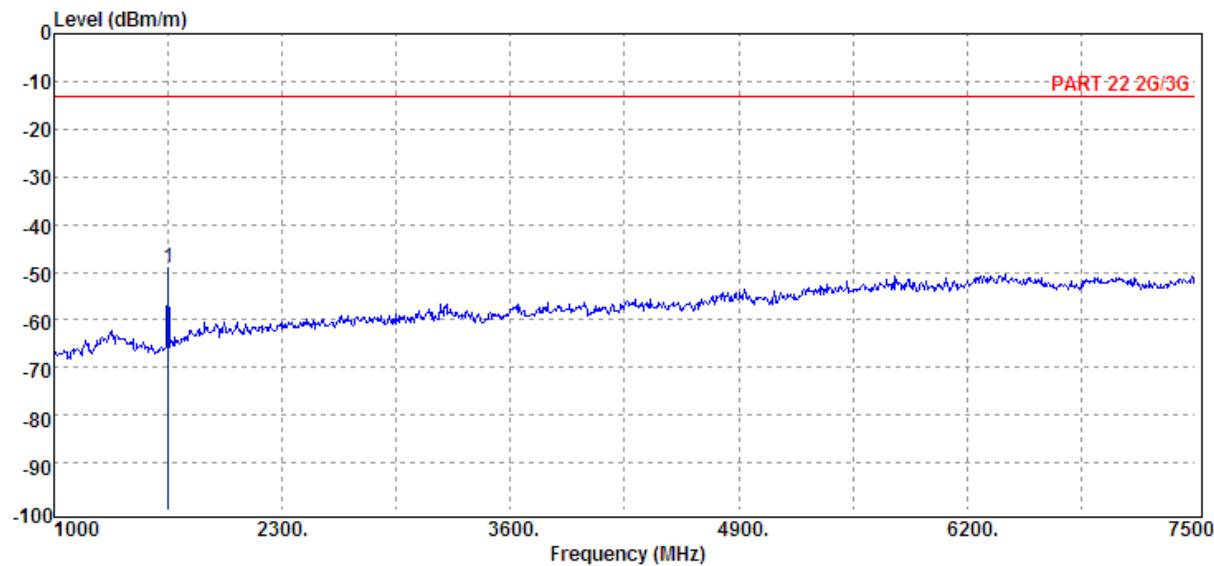
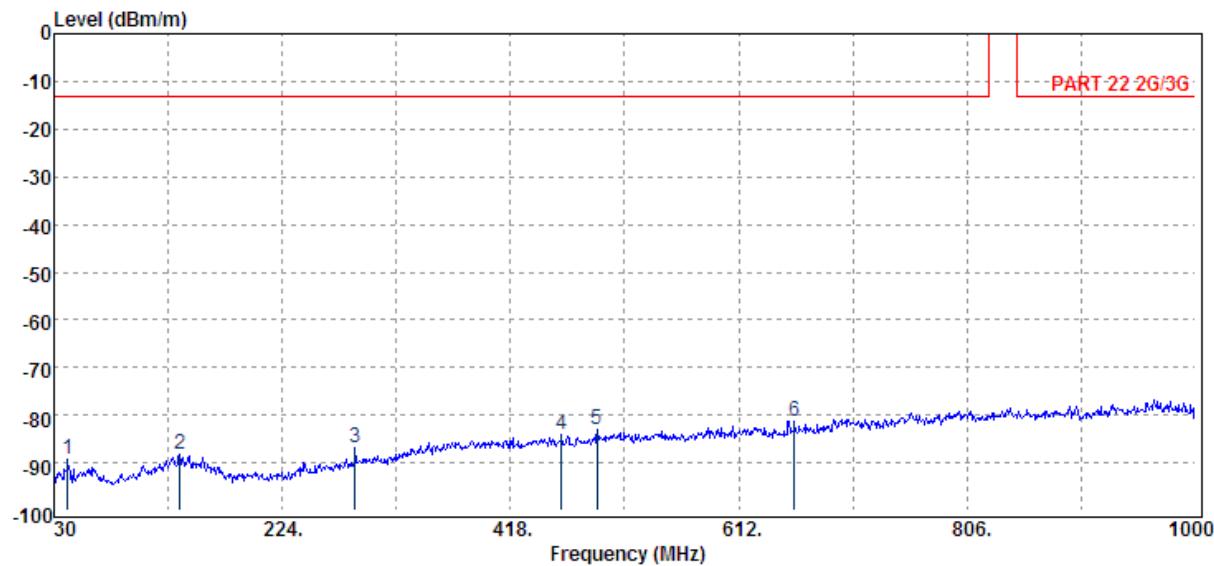
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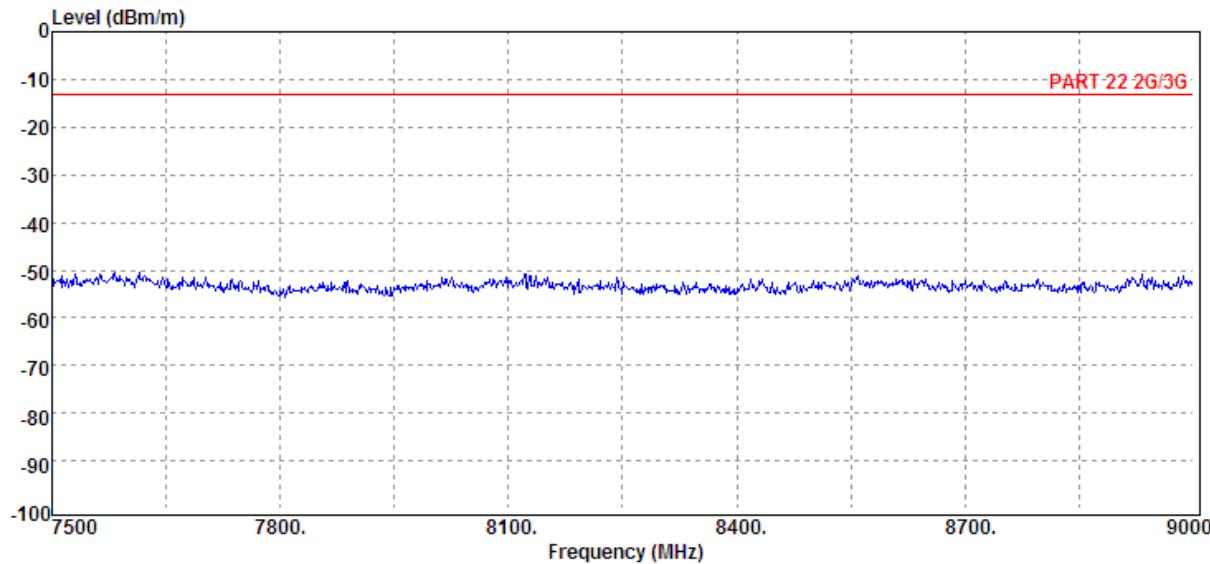
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Operation Band	:GSM 850	Test Date	:2012-05-22
ARFCN	:CH 128	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Jimmy
Operation Mode	:TX		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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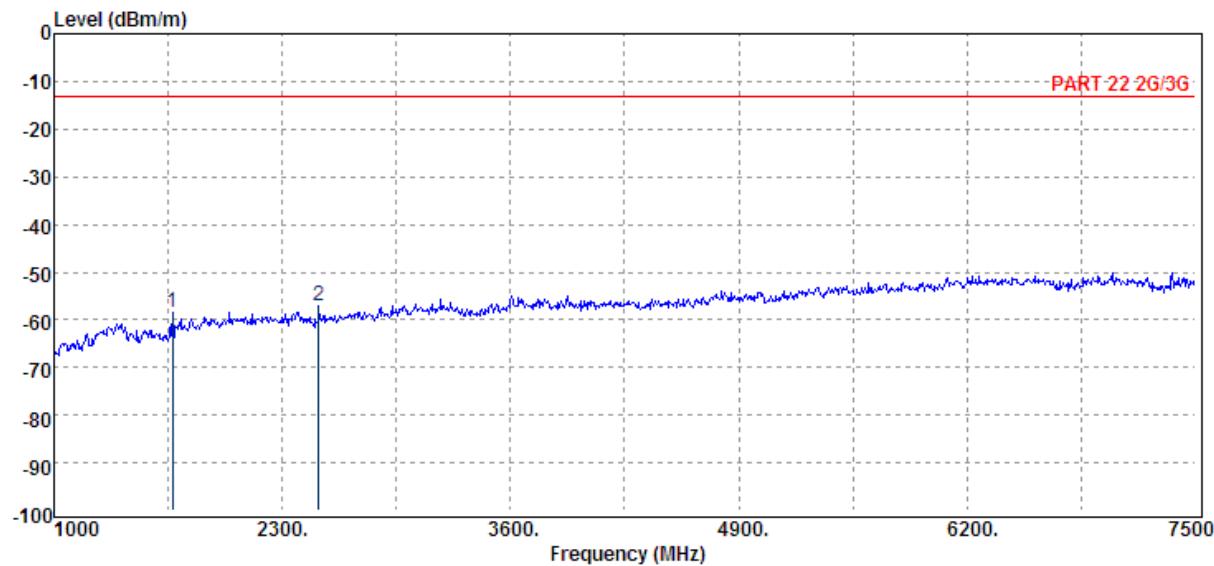
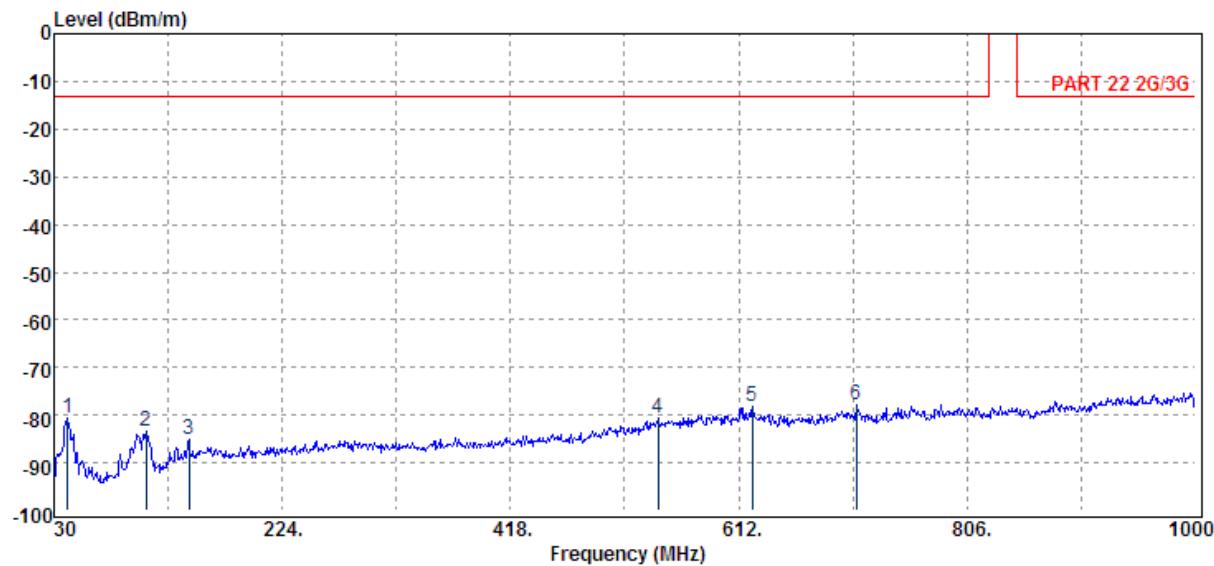
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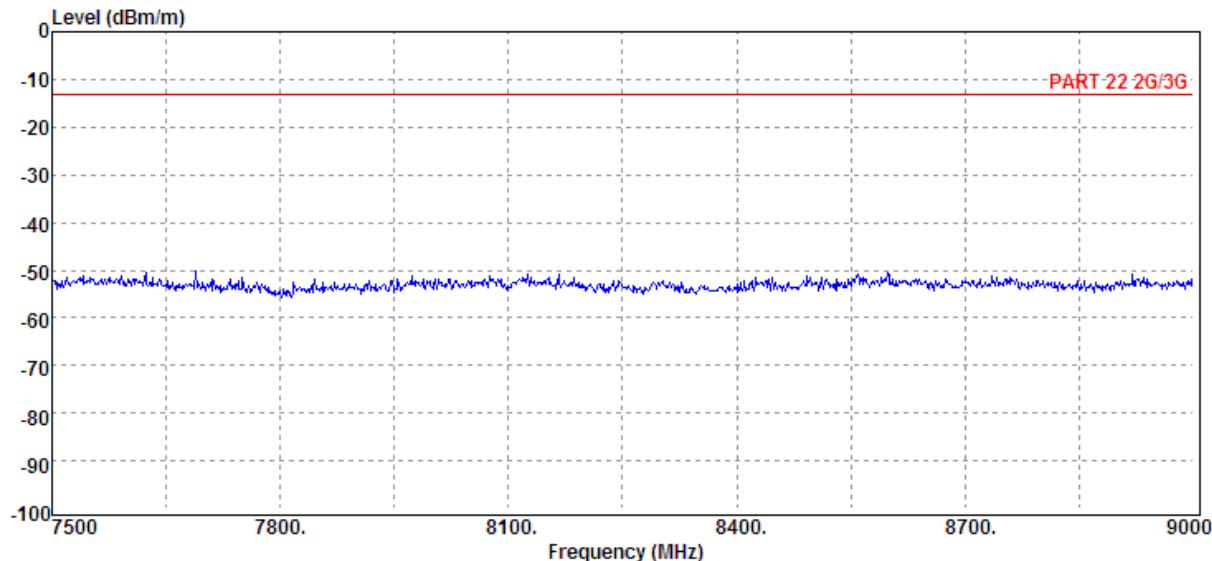
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Operation Band	:GSM 850	Test Date	:2012-05-22
ARFCN	:CH 190	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Jimmy
Operation Mode	:TX		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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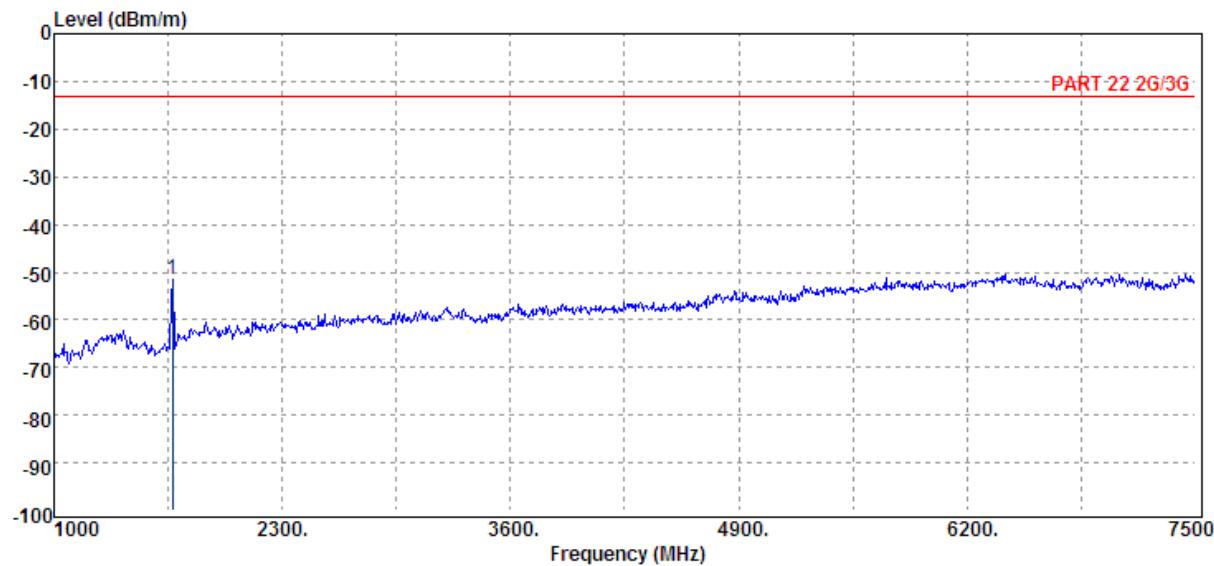
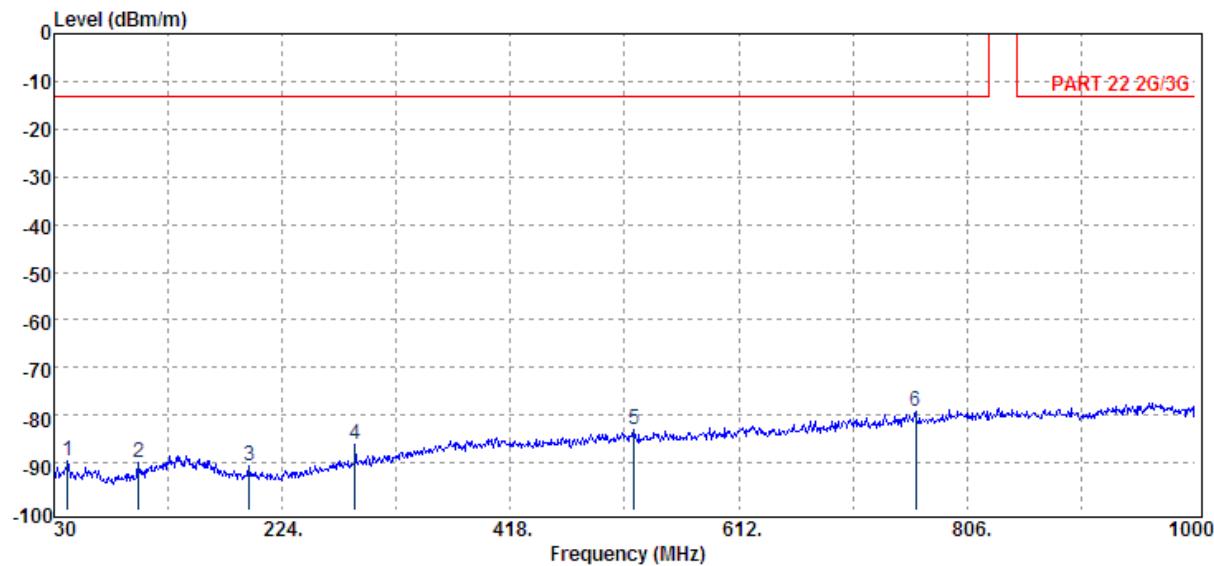


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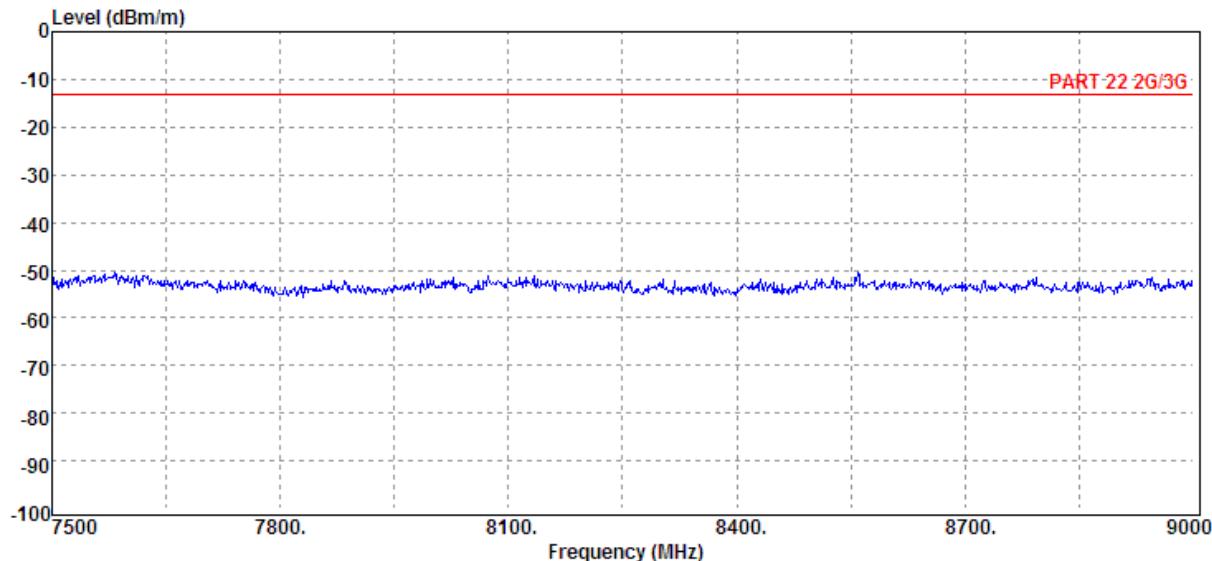
Operation Band :GSM 850
ARFCN :CH 190
Fundamental Frequency :836.6 MHz
Operation Mode :TX
EUT Pol. :E2 Plan

Test Date :2012-05-22
Temp./Humi. :21 deg_C / 59 RH
Engineer :Jimmy
Measurement Antenna Pol. :HORIZONTAL



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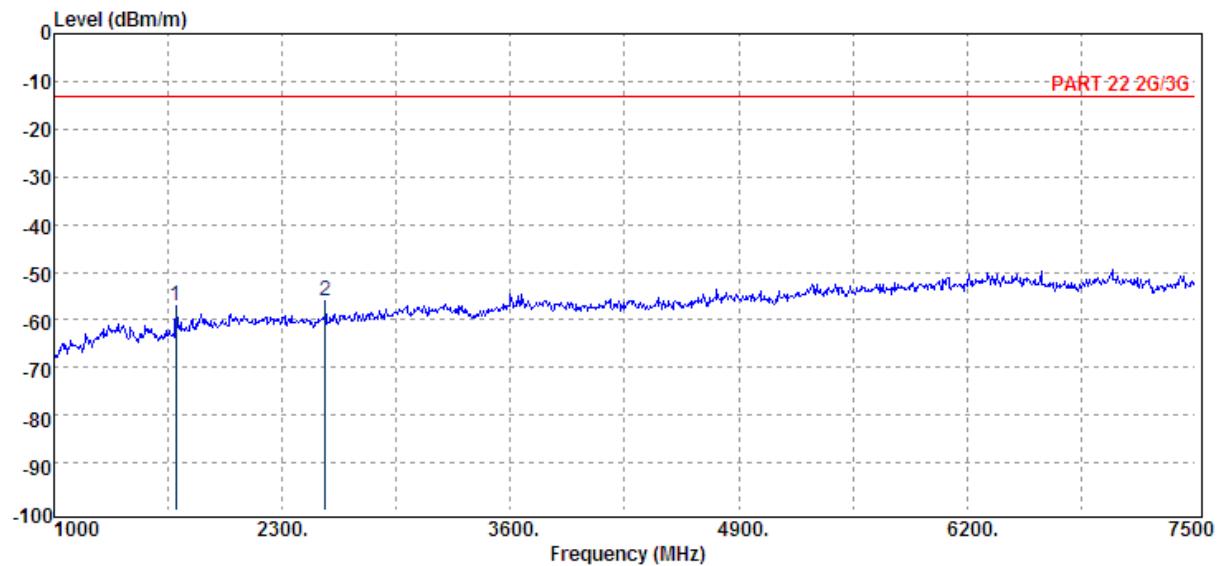
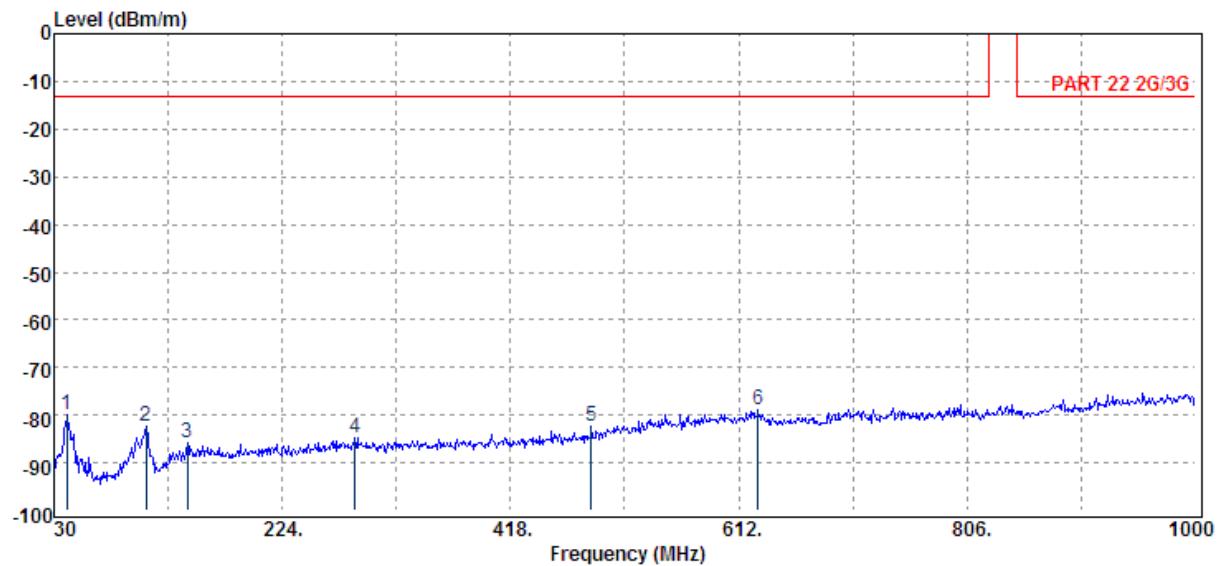
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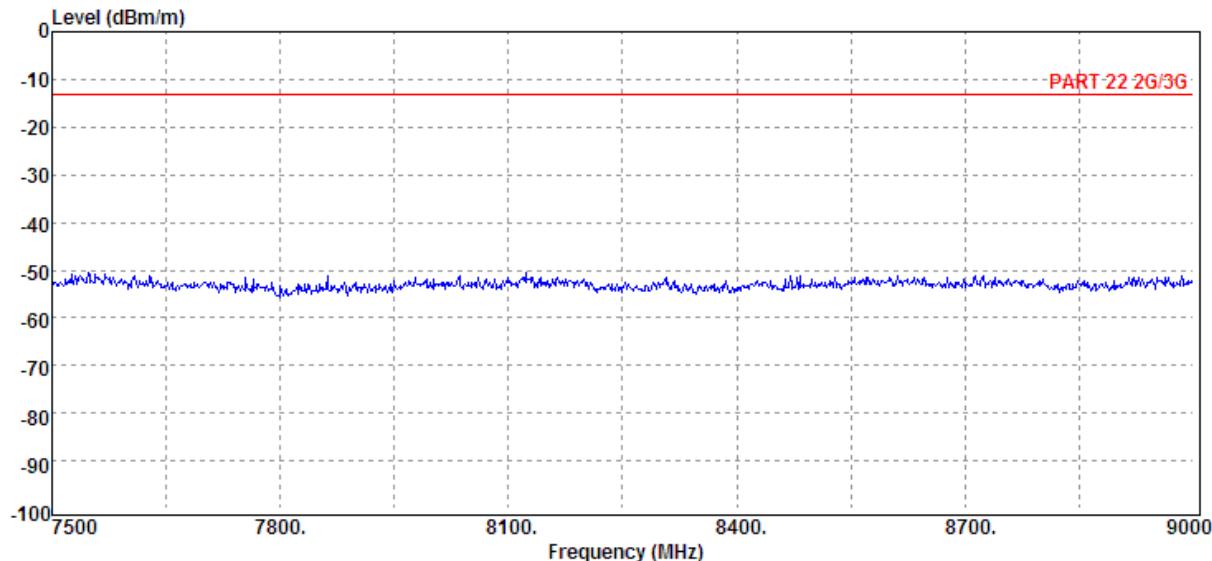
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Operation Band	:GSM 850	Test Date	:2012-05-22
ARFCN	:CH 251	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Jimmy
Operation Mode	:TX		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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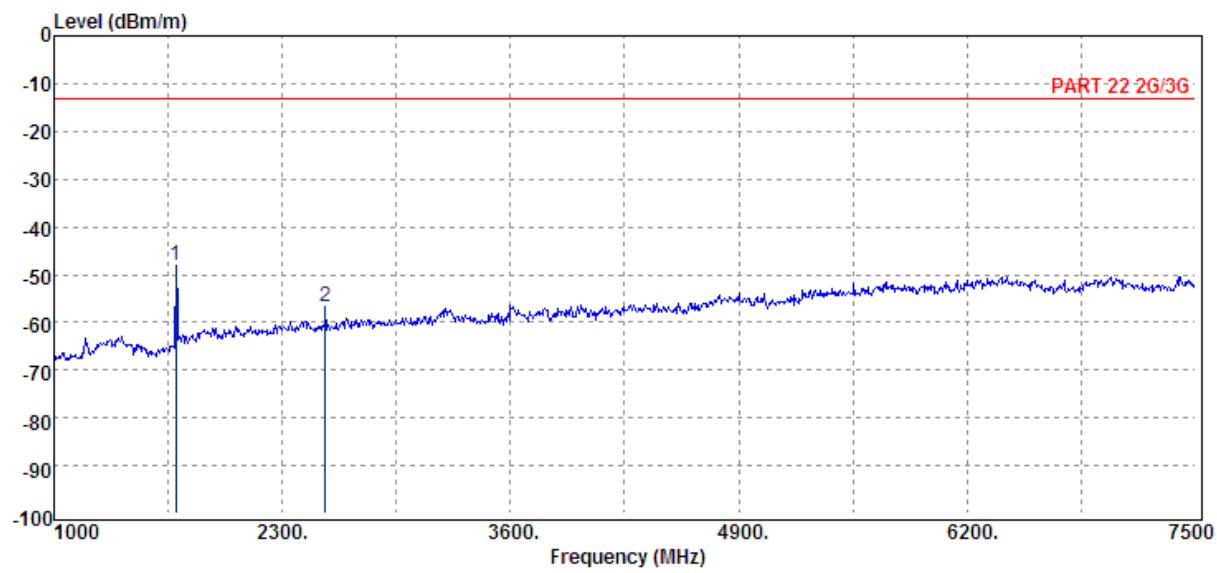
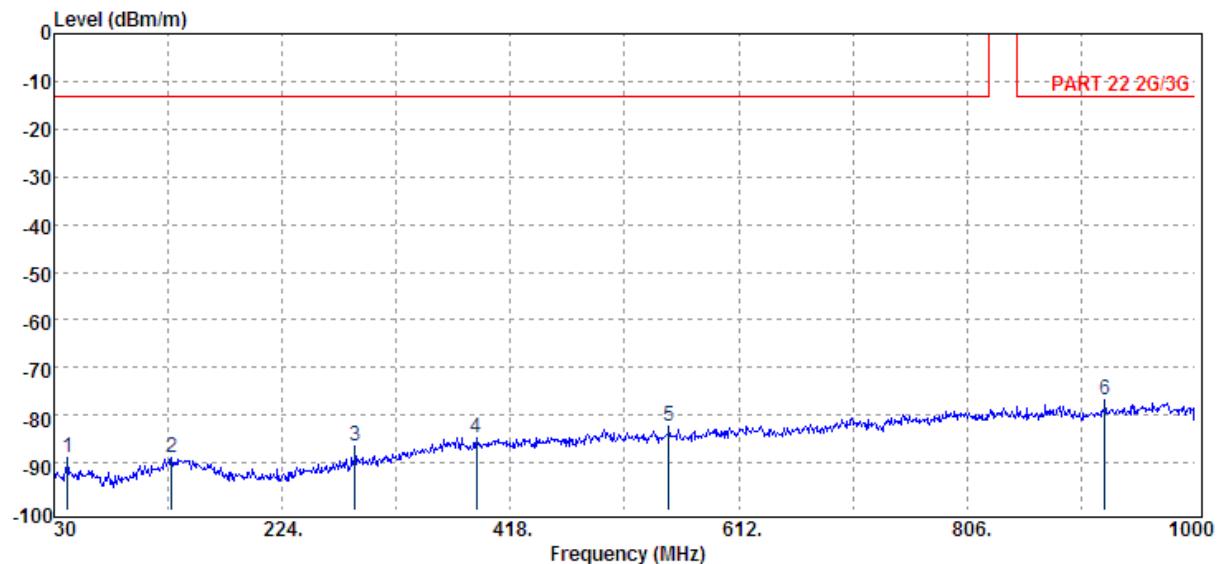
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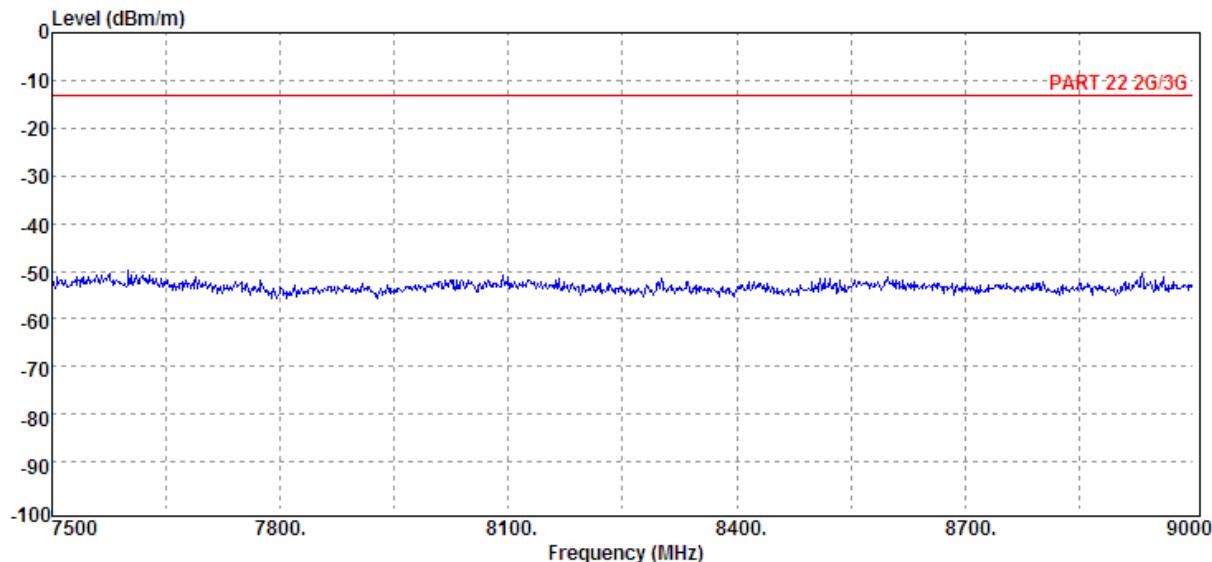
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Operation Band	:GSM 850	Test Date	:2012-05-22
ARFCN	:CH 251	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Jimmy
Operation Mode	:TX		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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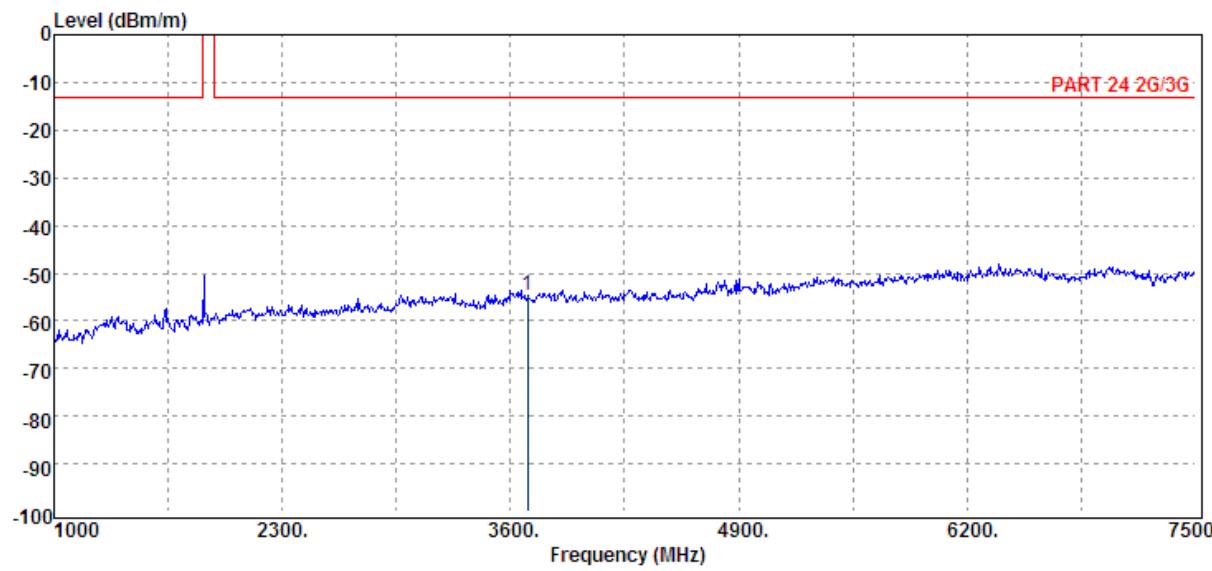
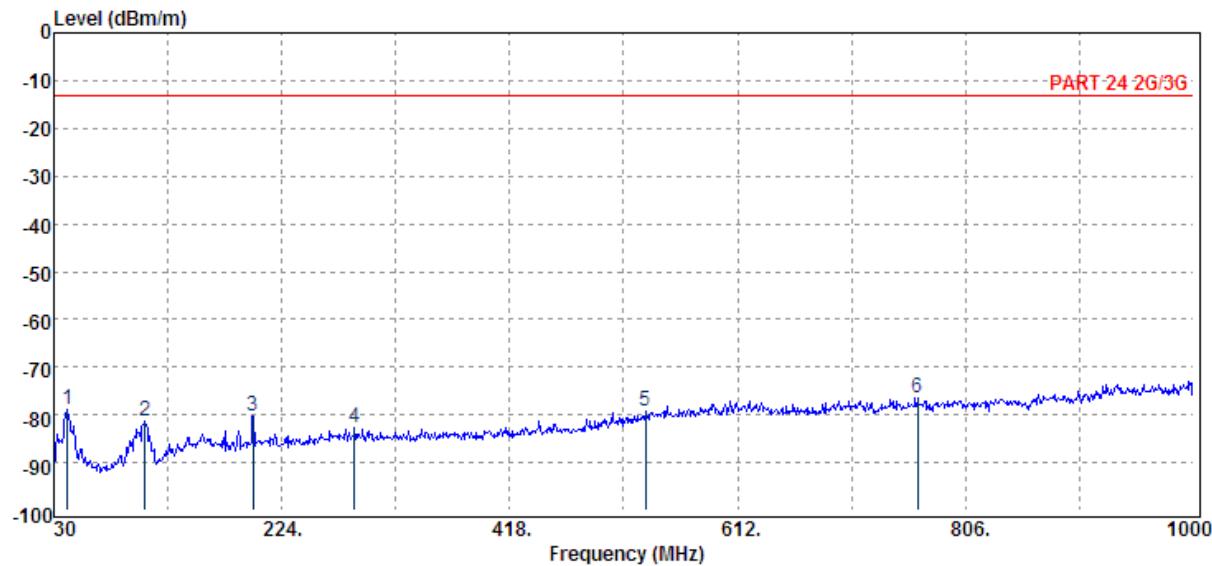


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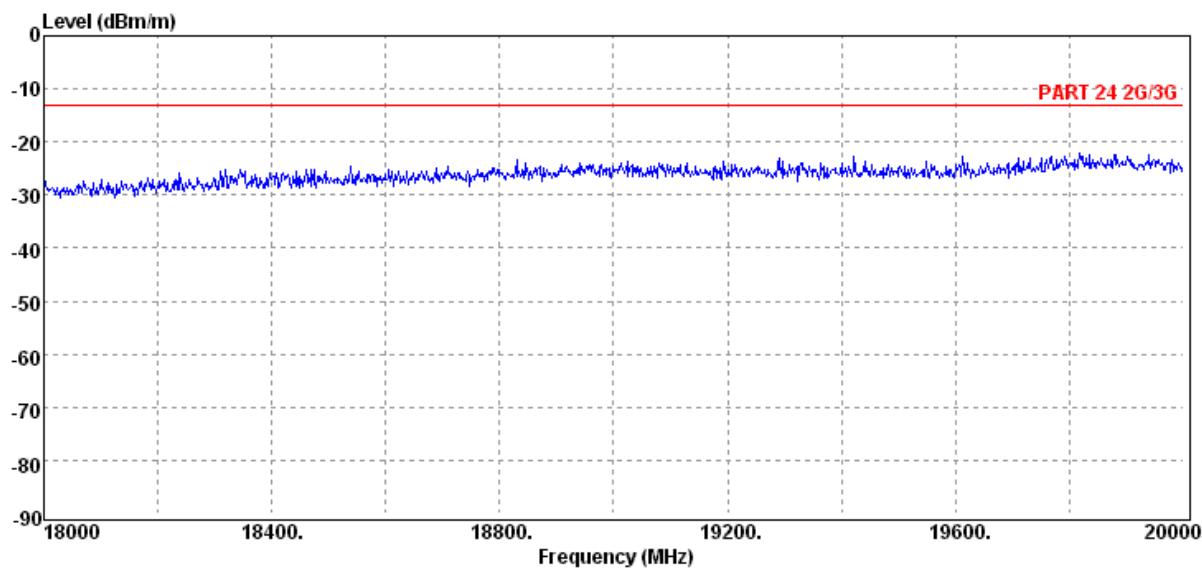
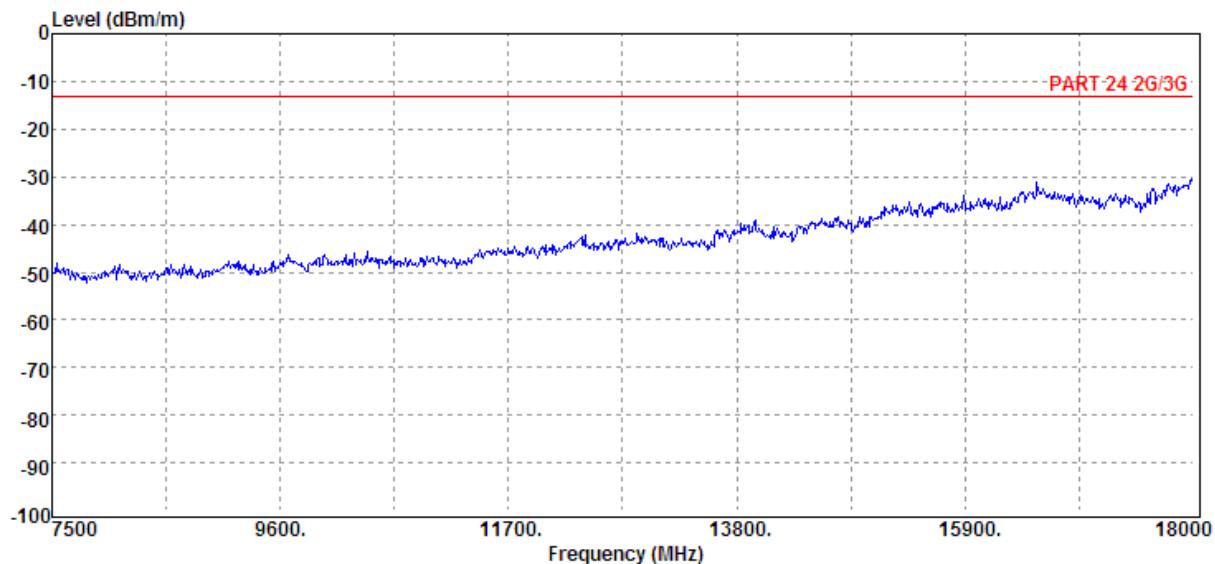
Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Band :GPRS 1900 Test Date :2012-05-22
ARFCN :CH 512 Temp./Humi. :21 deg_C / 59 RH
Fundamental Frequency :1850.2 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL



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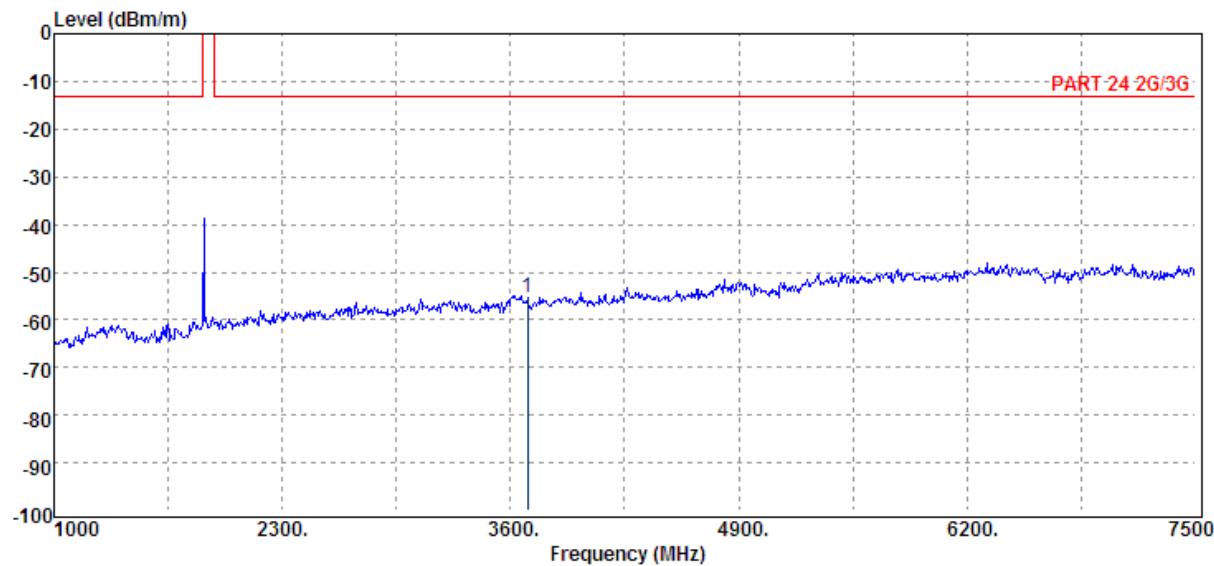
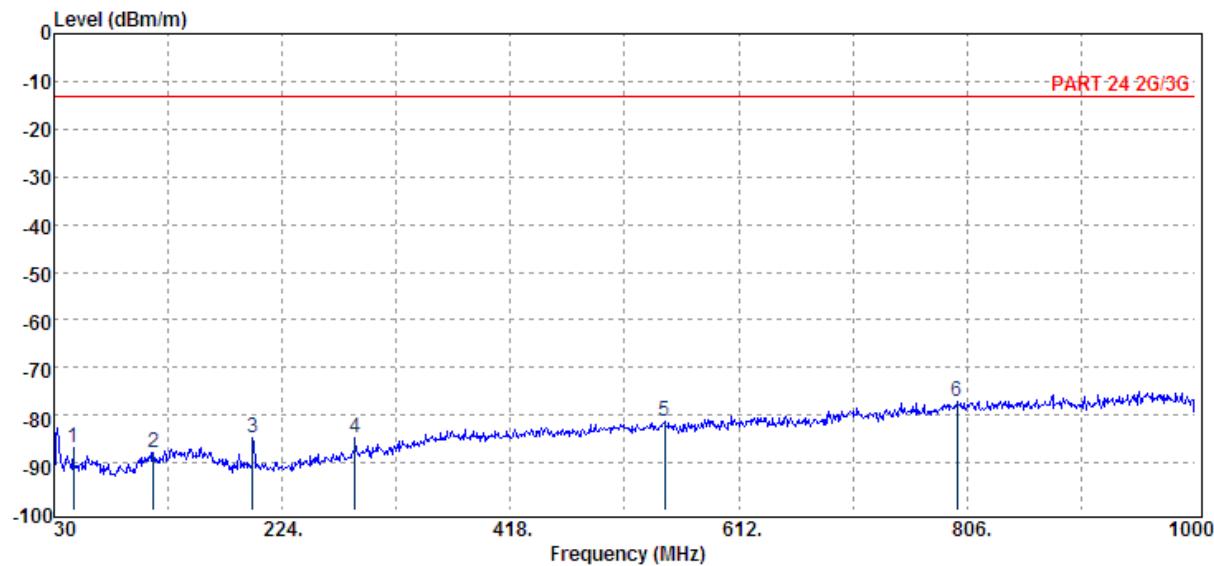


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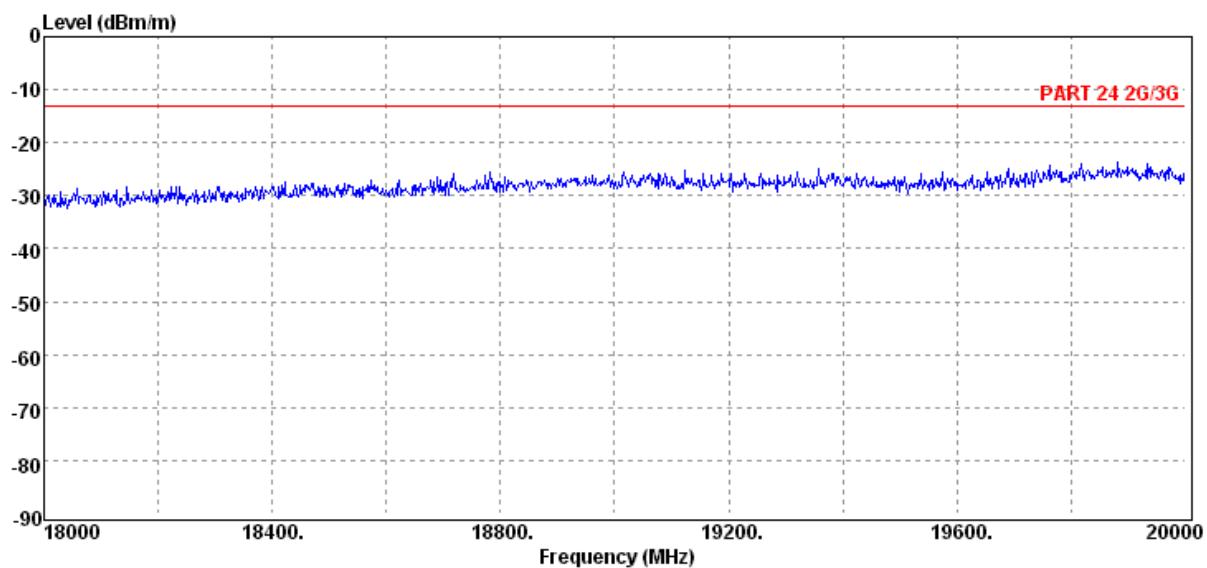
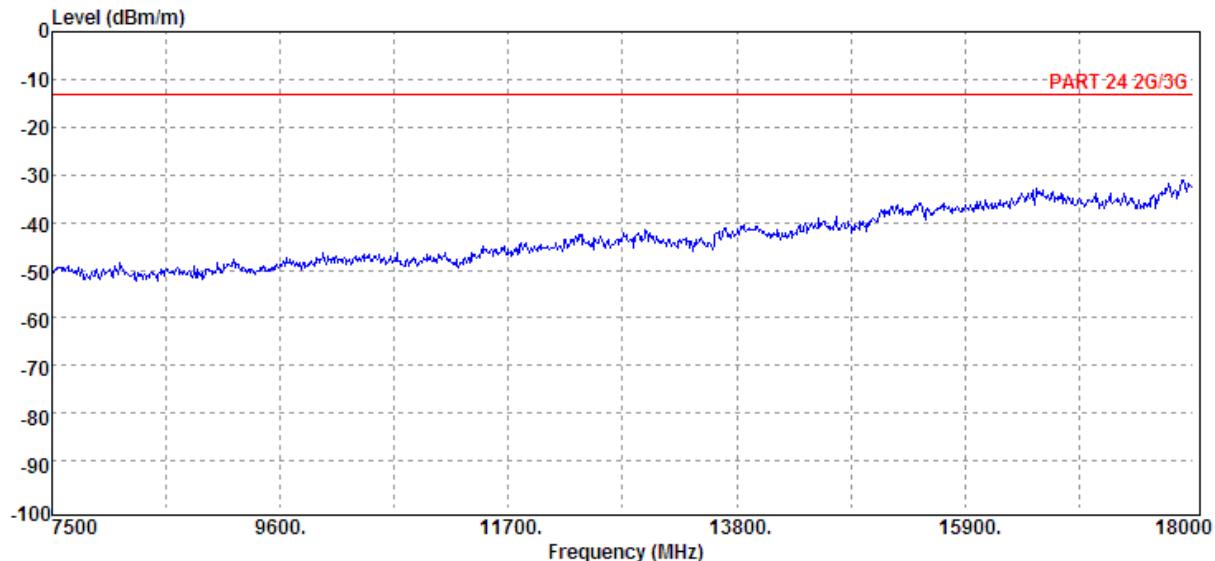
Operation Band :GPRS 1900
ARFCN :CH 512
Fundamental Frequency :1850.2 MHz
Operation Mode :TX
EUT Pol. :E1 Plan

Test Date :2012-05-22
Temp./Humi. :21 deg_C / 59 RH
Engineer :Jimmy
Measurement Antenna Pol. :HORIZONTAL



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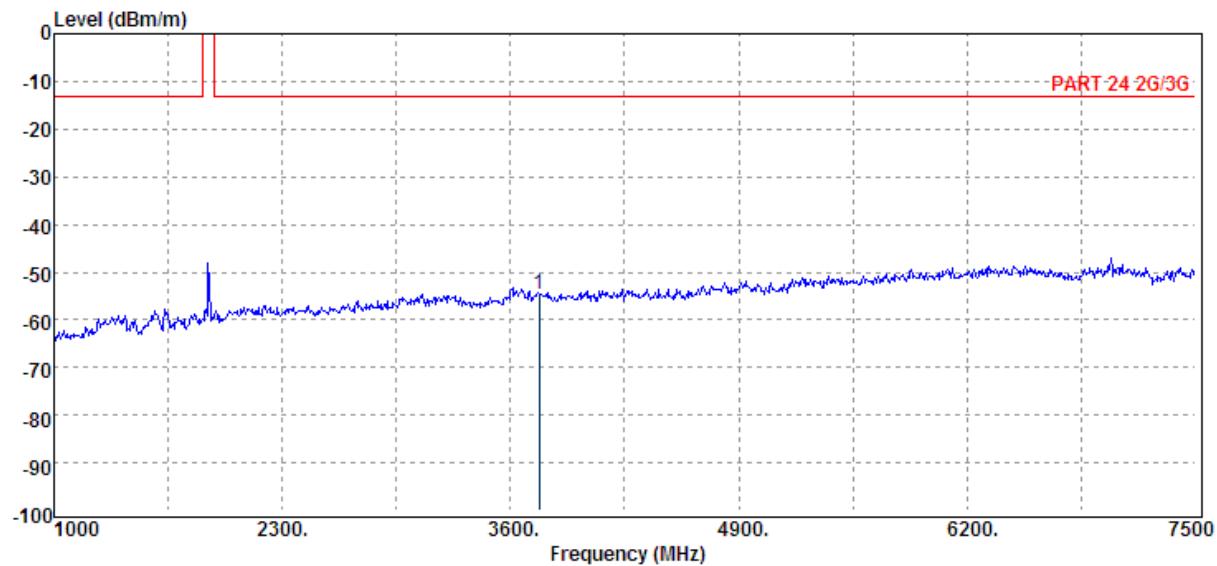
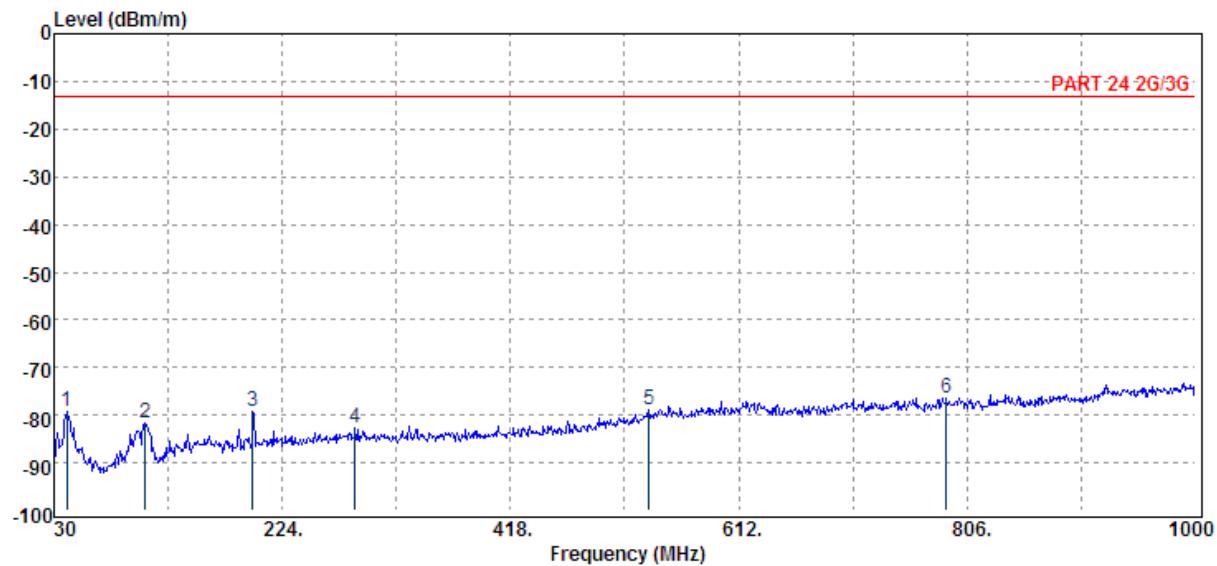
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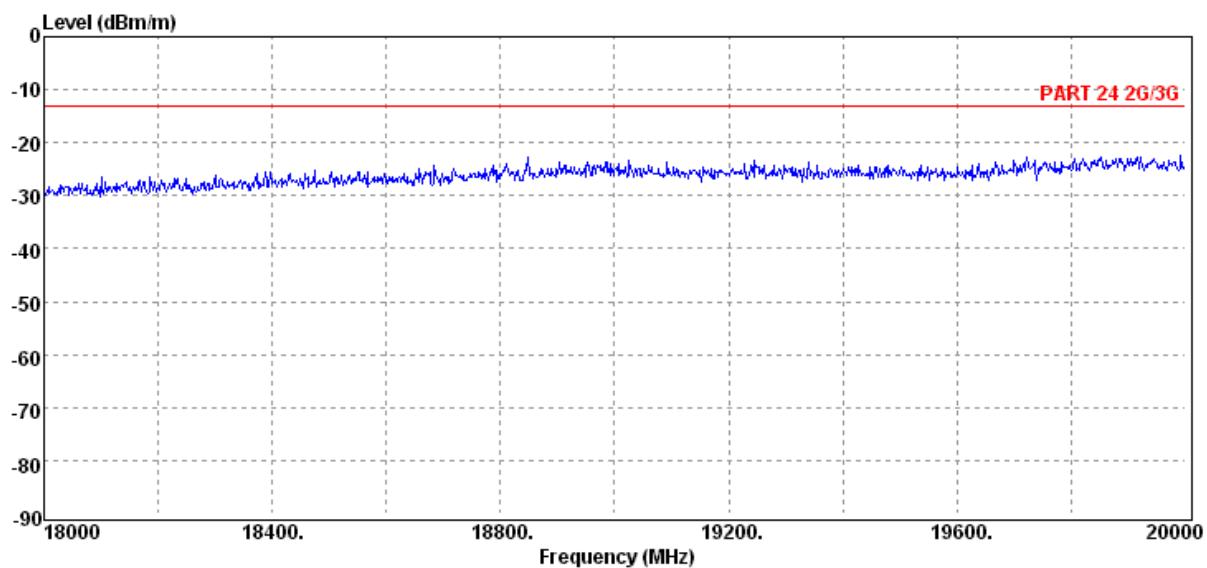
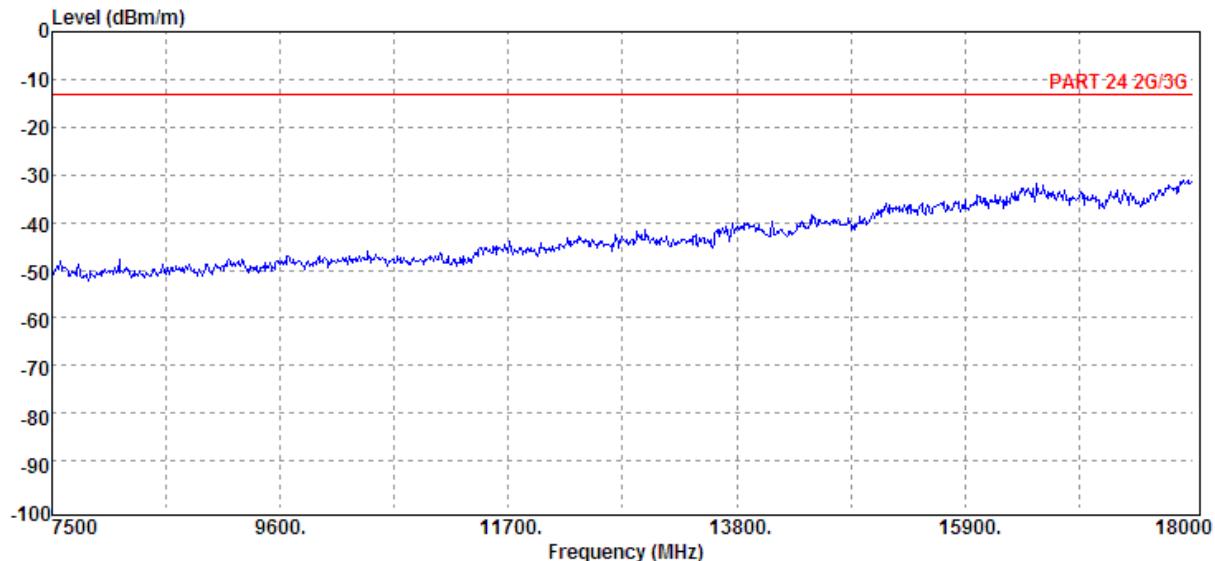
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Operation Band	:GPRS 1900	Test Date	:2012-05-22
ARFCN	:CH 661	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Jimmy
Operation Mode	:TX	Measurement Antenna Pol. :VERTICAL	
EUT Pol.	:E1 Plan		



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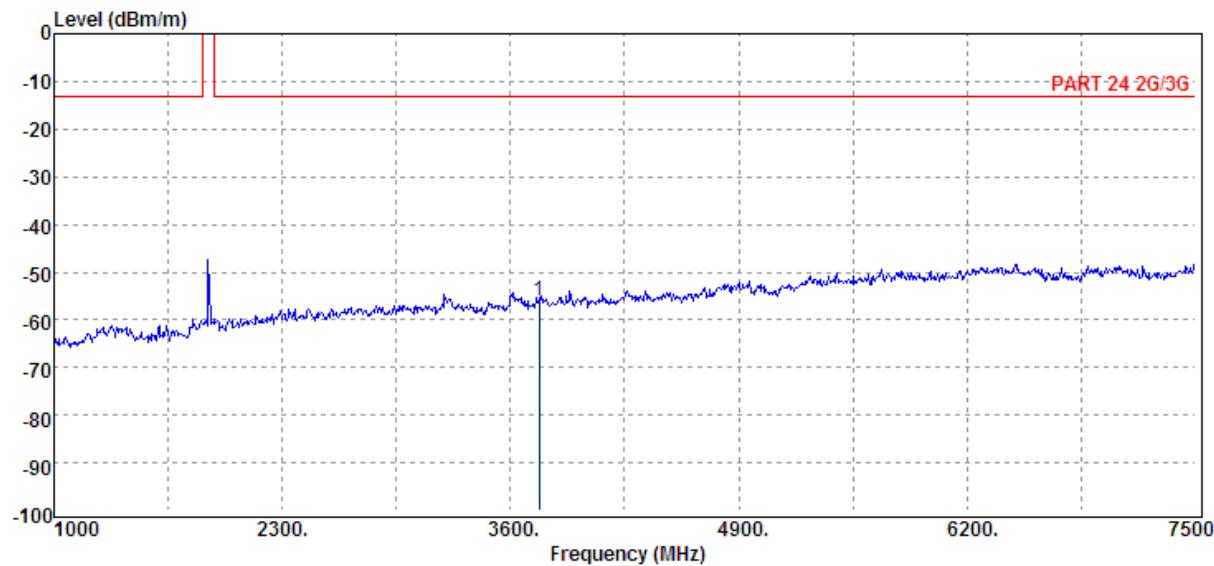
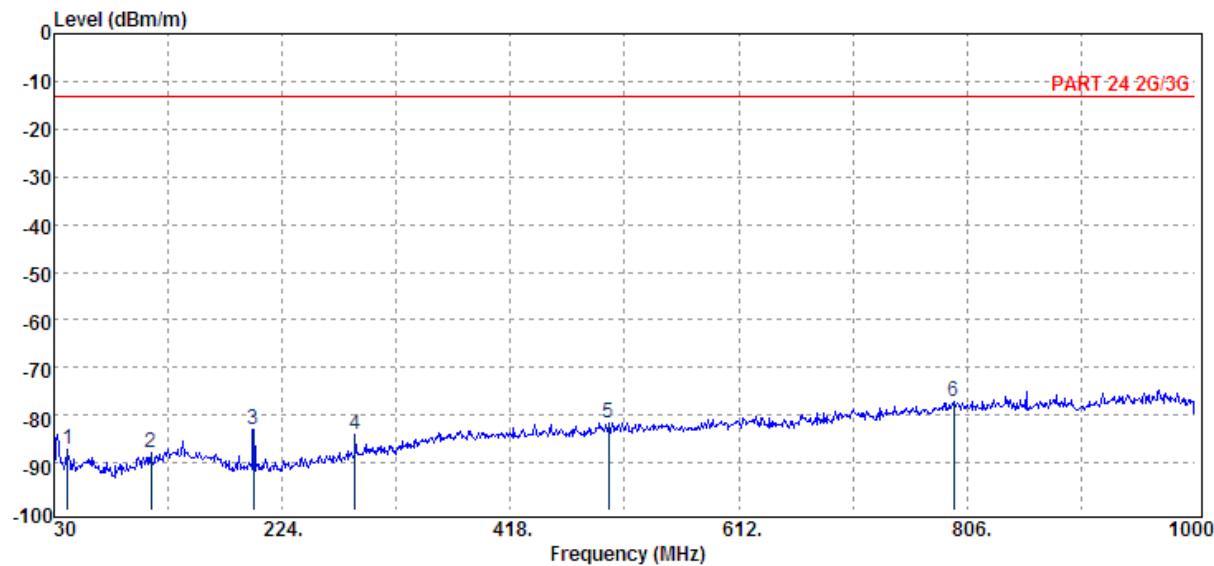


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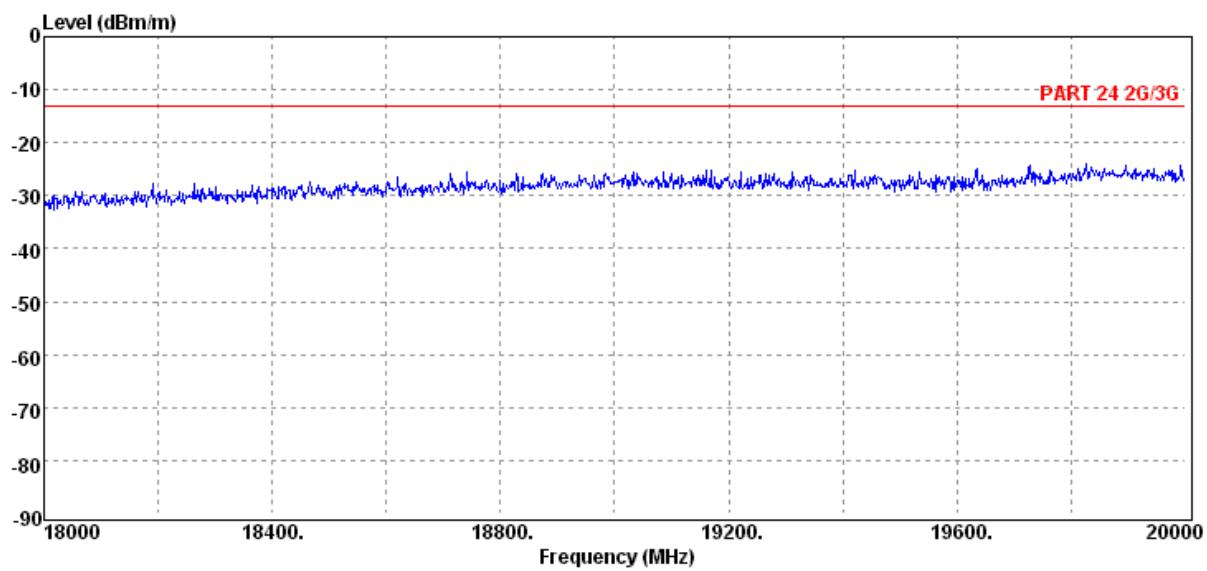
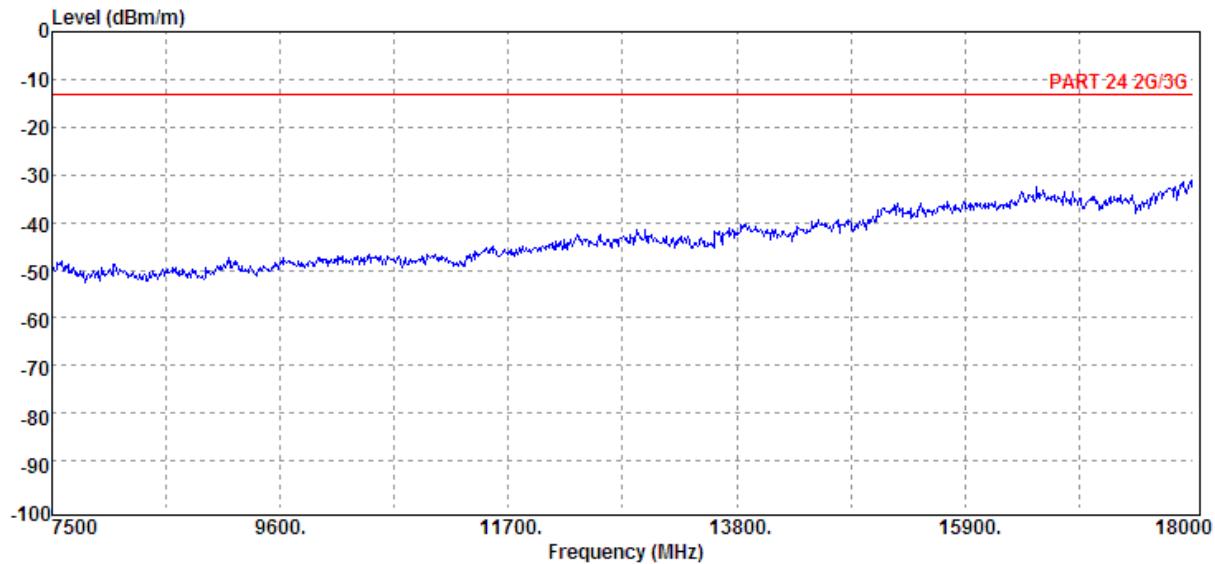
Operation Band :GPRS 1900
ARFCN :CH 661
Fundamental Frequency :1880.0 MHz
Operation Mode :TX
EUT Pol. :E1 Plan

Test Date :2012-05-22
Temp./Humi. :21 deg_C / 59 RH
Engineer :Jimmy
Measurement Antenna Pol. :HORIZONTAL



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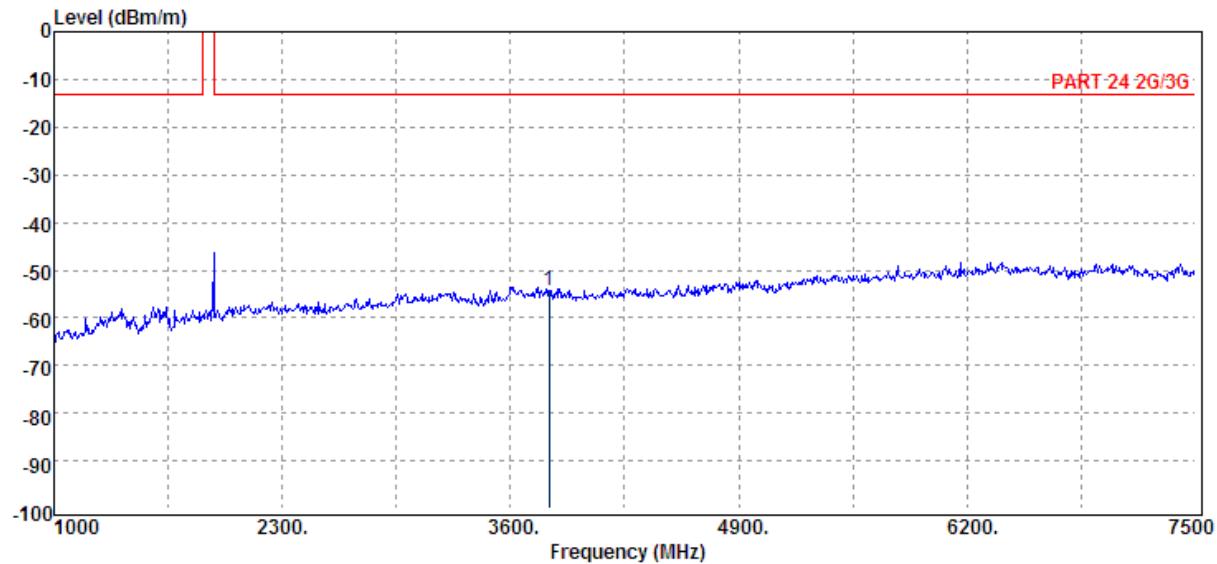
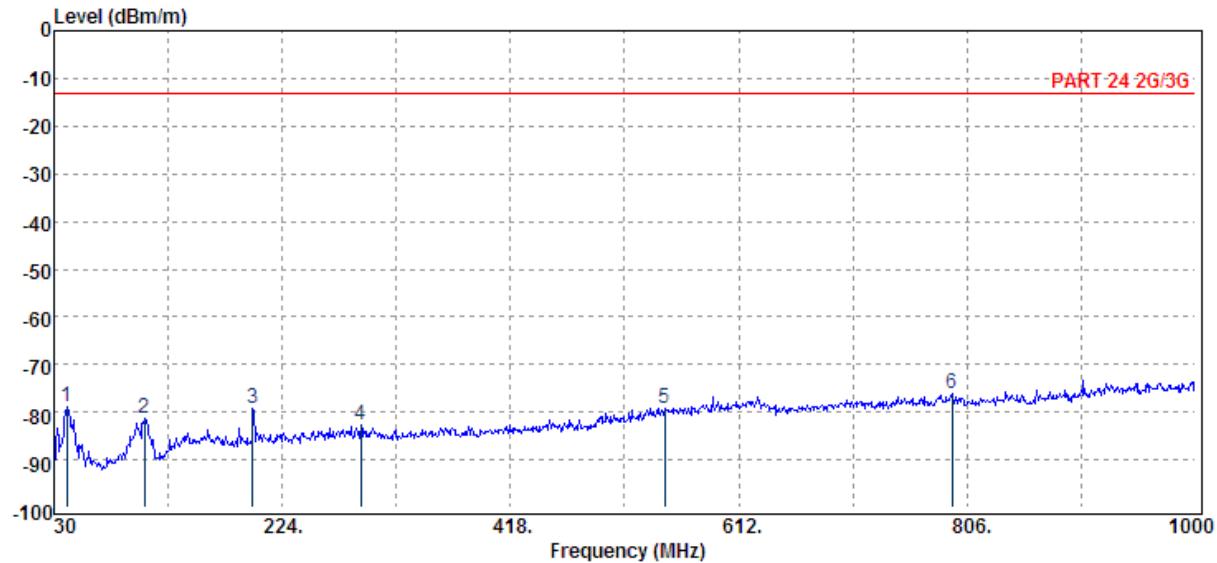


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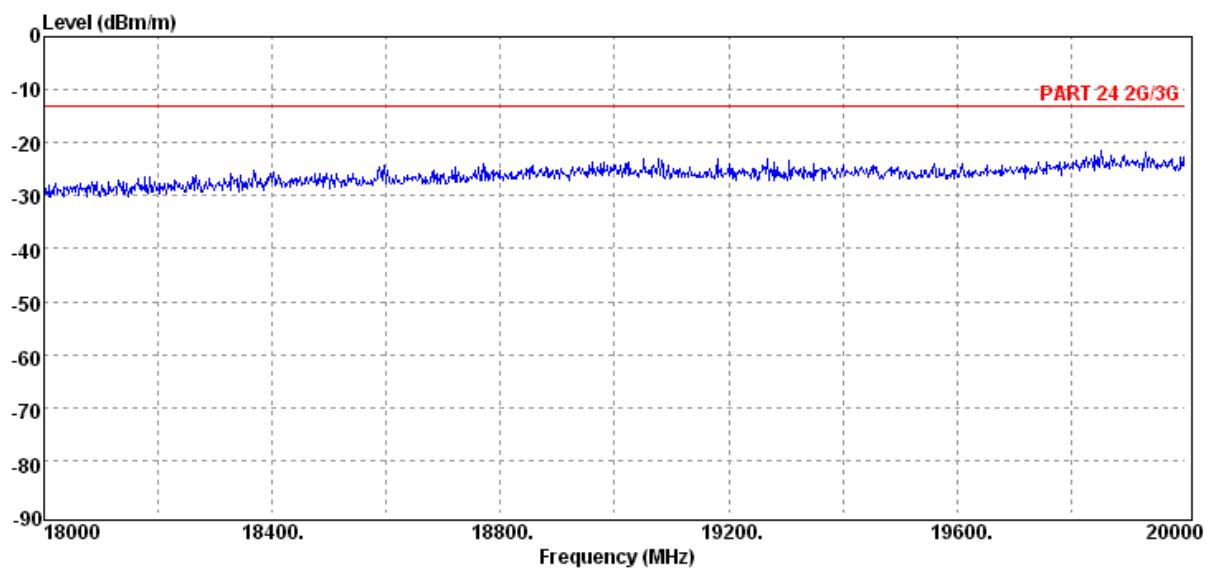
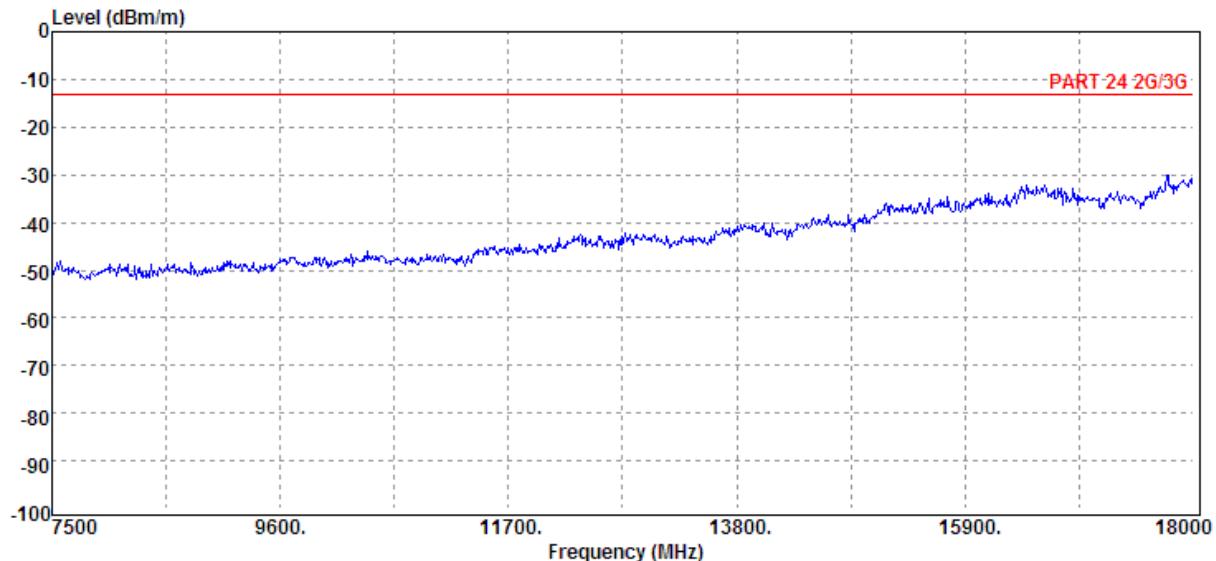
Operation Band :GPRS 1900
ARFCN :CH 810
Fundamental Frequency :1909.8 MHz
Operation Mode :TX
EUT Pol. :E1 Plan

Test Date :2012-05-22
Temp./Humi. :21 deg_C / 59 RH
Engineer :Jimmy
Measurement Antenna Pol. :VERTICAL



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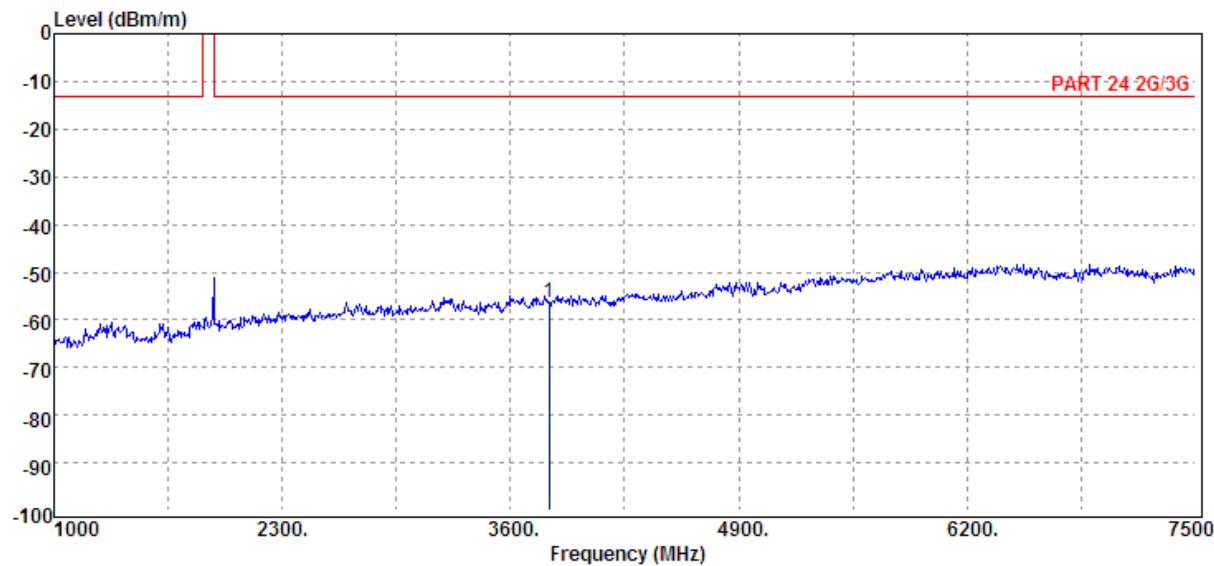
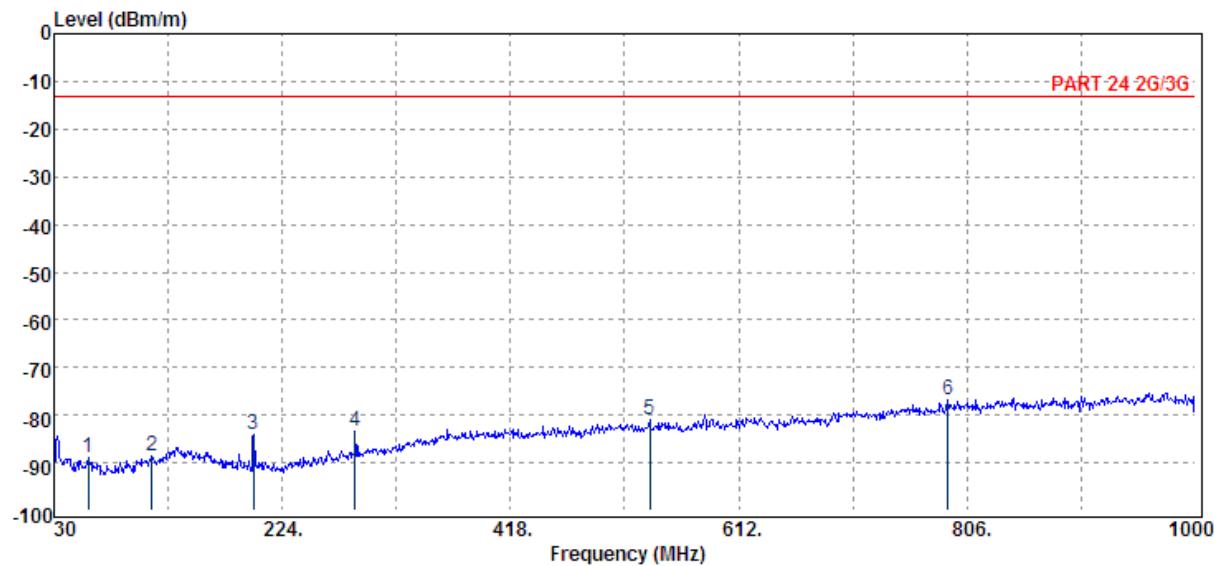


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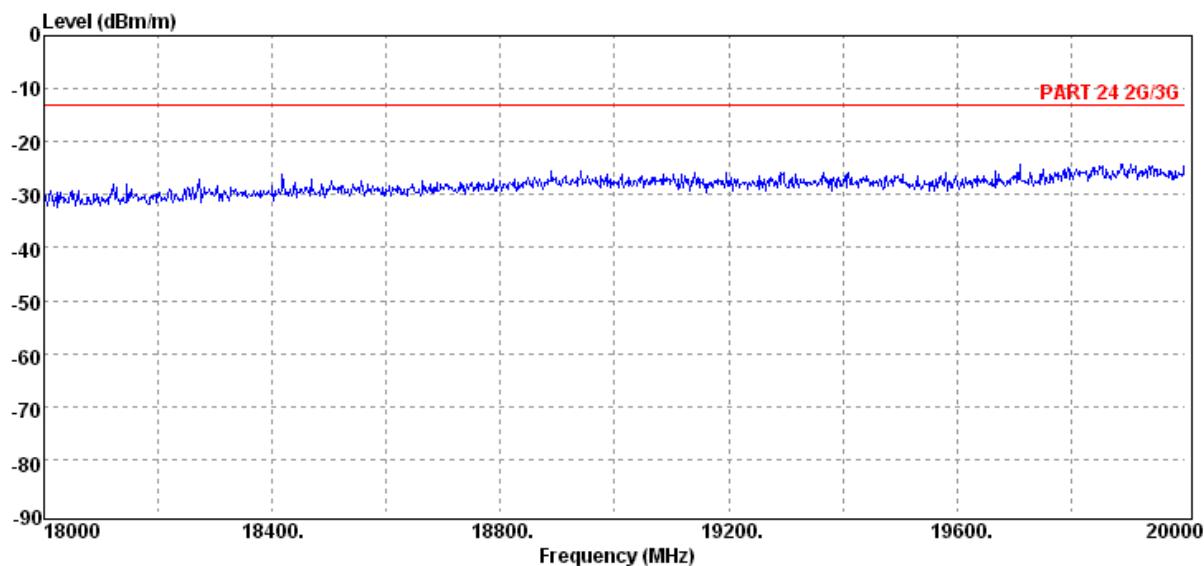
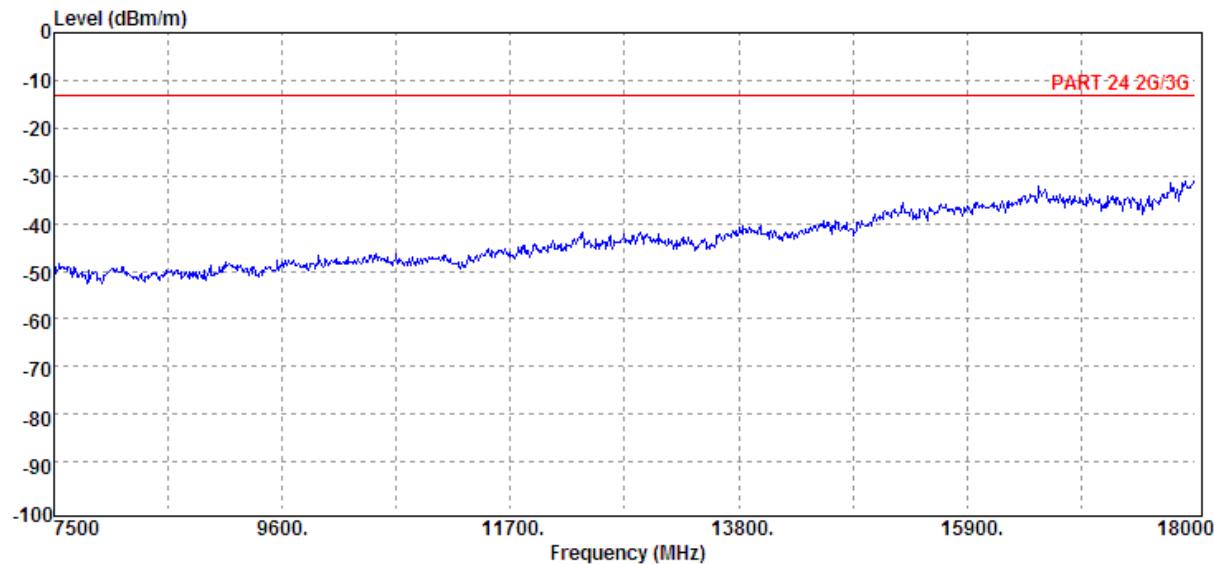
Operation Band :GPRS 1900
ARFCN :CH 810
Fundamental Frequency :1909.8 MHz
Operation Mode :TX
EUT Pol. :E1 Plan

Test Date :2012-05-22
Temp./Humi. :21 deg_C / 59 RH
Engineer :Jimmy
Measurement Antenna Pol. :HORIZONTAL



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