FCC/IC TEST REPORT

for

47 CFR Part 22H, 24E, RSS-132, and RSS-133

Equipment	:	**GSM EGPRS Quad-Band Messaging Device**
Trade Name	:	**Ogo**
Model No.	:	**CT-25E**
FCC ID	:	**SOW-OGOCT25E**
IC ID	:	**5621A-OGOCT25E**
Tx Frequency Range	:	**GSM850 : 824~849 MHz** **PCS1900 : 1850~1910 MHz**
Max. ERP/EIRP Power	:	**GSM850(GSM) : 0.63 W** **GSM850(EDGE) : 0.24 W** **PCS1900(GSM) : 0.67 W** **PCS1900(EDGE) : 0.51 W**
Emission Designator	:	**GSM : 300KGXW** **EDGE : 300KG7W**
Applicant	:	**IXI Mobile (R&D) Ltd.** 17 Hatidhar St. Ra'anana, 43665 Israel

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- The data shown in this test report were carried out on Apr. 23, 2007 at **Sporton International Inc. LAB.**
- Report No.: FG741220, Report Version: Rev. 01.

Roy Wu
Deputy Manager

SPORTON International Inc.
6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

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History of this test report

Report Issue Date: May 28, 2007

Report No.	Description

1. General Information

1.1. Applicant

IXI Mobile (R&D) Ltd.
17 Hatidhar St. Ra'anana, 43665 Israel

1.2 Manufacturer

FIH CO., LTD.
6F, North 2A, No. 7, Sec. 2, Sianmin Blvd., Banciao City, Taipei County 22041, Taiwan

1.3 Basic Description of Equipment under Test

Equipment	: GSM EGPRS Quad-Band Messaging Device
Trade Name	: Ogo
Model No.	: CT-25E
FCC ID	: SOW-OGOCT25E
IC ID	: 5621A-OGOCT25E
Power Supply Type	: Switching
AC Power Cord	: AC 120V, Wall-mount, 1.6 meter, 2 pin
Earphone	: Data Fountain International Co., LH1—E0115
Adapter	: PIE, P925BW05050AB1U
Battery	: Well Done Company, IXC00185

1.4 Feature of Equipment under Test

DUT Type :	GSM EGPRS Quad-Band Messaging Device
Trade Name :	Ogo
Model Name :	CT-25E
FCC ID :	SOW-OGOCT25E
IC ID :	5621A-OGOCT25E
Tx Frequency :	GSM850 : 824 ~ 849 MHz PCS1900 : 1850 ~1910 MHz Bluetooth : 2400 ~ 2483.5
Rx Frequency :	GSM850 : 869 ~ 894 MHz PCS1900 : 1930 ~ 1990 MHz Bluetooth : 2400 ~ 2483.5
Maximum Output Power to Antenna :	GSM850 : 32.86 dBm (GSM); 32.87 dBm (GPRS8); 31.30 dBm (GPRS10); 27.45 dBm (EDGE10) PCS1900 : 29.97 dBm (GSM); 29.87 dBm (GPRS8); 28.48 dBm (GPRS10); 27.47 dBm (EDGE10) Bluetooth : 0.98 dBm
Maximum ERP/EIRP :	GSM850(GSM) : 0.63 W (27.98 dBm) GSM850(EDGE) : 0.24 W (23.84 dBm) PCS1900(GSM) : 0.67 W (28.29 dBm) PCS1900(EDGE) : 0.51 W (27.04 dBm)
Antenna Type :	GSM/DCS: Fixed Internal Bluetooth: Chip Antenna
HW Version :	A
SW Version :	V0.070
Power Rating (DC/AC , Voltage and Current of RF element or PA) :	DC 5V / 1A
Digital Modulation Emission :	GSM : GMSK EDGE : 8PSK Bluetooth : GFSK
Type of Emission :	GSM : 300KGXW EDGE : 300KG7W
Device Power Class :	GSM850 : 4 PCS1900 : 1
DUT Stage :	Identical Prototype

1.5 Report Date

EUT Received : Apr. 12, 2007

Report Date : May 28, 2007

2 Test Configuration of Equipment under Test

2.1 Test Manner

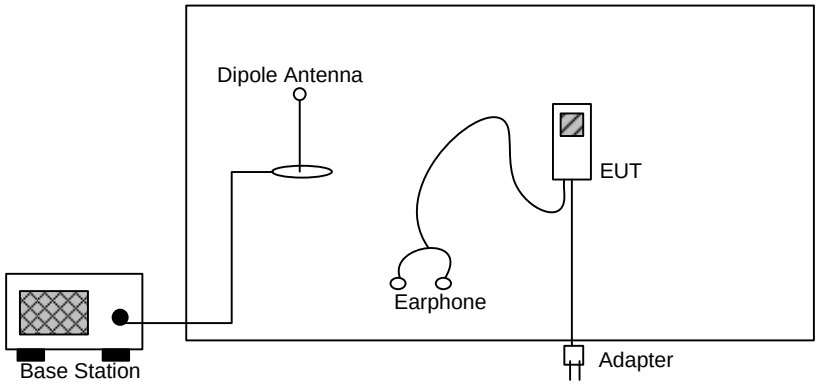
a. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
b. During all testings, EUT is in link mode with base station emulator at maximum power level.
c. Frequency range investigated: radiated emission 30 MHz to 9000 MHz for GSM850; 30MHz to 19000 MHz for PCS.

2.2 Test Mode

Application	GSM850	PCS1900
Radiated Emission	☒ Mode 1: GSM Link_CH 189 ☒ Mode 2: EDGE Link_CH 189 ☒ Mode 5: GSM Link with BT Link	☒ Mode 3: GSM Link_CH 661 ☒ Mode 4: EDGE Link_CH 661
Conducted Measurement	☒ Mode 1: GSM_CH 189 ☒ Mode 2: EDGE_CH 189	☒ Mode 3: GSM_CH 661 ☒ Mode 4: EDGE_CH 661

2.3 Connection Diagram of Test System

<Mode 1~4>



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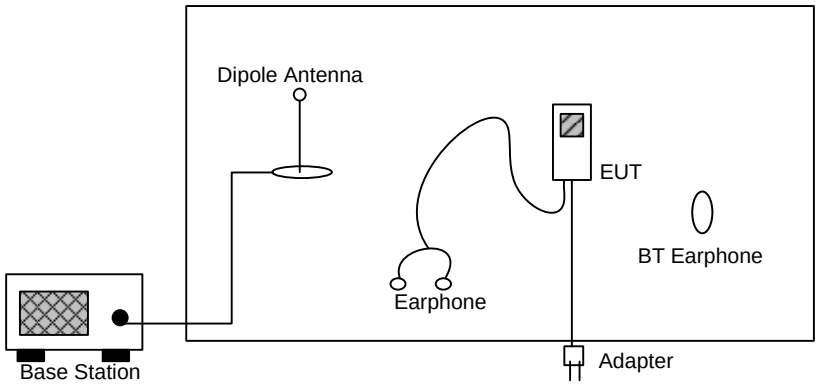


2.4 Ancillary Equipment List

Item	Equipment	Model No.	FCC ID	Serial No.
1.	Base Station(R&S)	CMU200	N/A	106656
2.	Bluetooth Device (Free Style)	JD-100	PQY471087	N/A

3. General Information of Test Site

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
TEL : 886-3-327-3456
FAX : 886-3-318-0055
Test Site No : 03CH06-HY

The chamber meets the characteristics of ANSI C63.4-2003. This site is on file with the FCC.

3.1 Test Voltage

120V/ 60Hz

3.2 Test in Compliance with

47 CFR Part 22H, 24E, Part 2, IC RSS-132 Issued 2 and RSS-133 Issued 3

3.3 Frequency Range Investigated

a. Radiation: from 30MHz to 9000MHz for GSM850.
b. Radiation: from 30 MHz to 19000 MHz for PCS1900.

3.4 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.

4. Test Data and Test Result

4.1 List of Measurements and Examinations

FCC Rule	IC Rule	DESCRIPTION OF TEST	Result	Section
§2.1046	RSS-132 §4.4 RSS-133 §6.4	RF Output Power	Passed	4.2
§ 22.913 §24.232	RSS-132 §4.4 RSS-133 §6.4	ERP / EIRP	Passed	4.3
§2.1049, § 22.917, § 24.238(b)	RSS-132 §4.5 RSS-133 §6.5	Occupied Bandwidth & Band Edge Measurement	Passed	4.4
§2.1051	RSS-132 §4.5 RSS-133 §6.5	Conducted Emission	Passed	4.5
§2.1053	RSS-132 §4.5 RSS-133 §6.5	Field Strength of Spurious Radiation	Passed	4.6
§2.1055, § 22.355, §24.235	RSS-132 §4.3 RSS-133 §6.3	Frequency Stability vs. Temperature	Passed	4.7
§2.1055, §22.355, §24.235	RSS-132 §4.3 RSS-133 §6.3	Frequency Stability vs. Voltage	Passed	4.8

4.2 RF Output Power

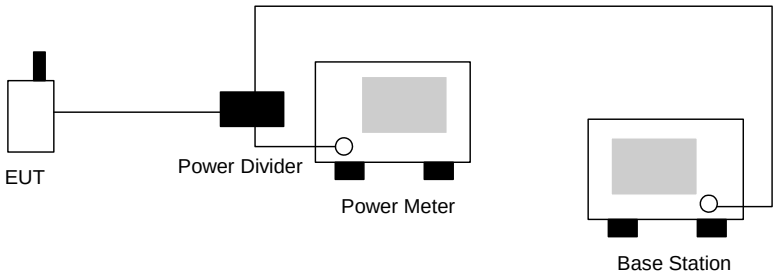
4.2.1 Measurement Instruments：

As described in chapter 5 of this test report.

4.2.2 Test Procedure：

1. The transmitter output was connected to power meter and base station through power divider.
2. Set EUT at PCL=5 for GSM850 and/or PCL=0 for PCS1900 maximum power through base station.
3. Select lowest, middle, and highest channels for each band.

4.2.3 Test Setup Layout：



4.2.4 Test Result：

Bands	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
GSM850 (GSM)	128	824.2 (Low)	32.70	1.862
	189	836.4 (Mid)	32.80	1.905
	251	848.8 (High)	32.86	1.932
GSM850 (GPRS8)	128	824.2 (Low)	32.72	1.871
	189	836.4 (Mid)	32.82	1.914
	251	848.8 (High)	32.87	1.936
GSM850 (GPRS10)	128	824.2 (Low)	31.14	1.300
	189	836.4 (Mid)	31.23	1.327
	251	848.8 (High)	31.30	1.349
GSM850 (EDGE10)	128	824.2 (Low)	27.12	0.515
	189	836.4 (Mid)	27.45	0.556
	251	848.8 (High)	27.43	0.553
PCS1900 (GSM)	512	1850.2 (Low)	29.97	0.993
	661	1880.0 (Mid)	29.85	0.966
	810	1909.8 (High)	29.53	0.897
PCS1900 (GPRS8)	512	1850.2 (Low)	28.98	0.791
	661	1880.0 (Mid)	29.87	0.971
	810	1909.8 (High)	29.56	0.904
PCS1900 (GPRS10)	512	1850.2 (Low)	28.48	0.705
	661	1880.0 (Mid)	28.37	0.687
	810	1909.8 (High)	28.07	0.641
PCS1900 (EDGE10)	512	1850.2 (Low)	27.18	0.522
	661	1880.0 (Mid)	27.47	0.558
	810	1909.8 (High)	27.35	0.543

4.3 ERP / EIRP Measurement

Equivalent isotropic radiated power measurements by substitution method according to ANSI/TIA/EIA-603-C.

4.3.1 Measurement Instruments

As described in chapter 5 of this test report.

4.3.2 Test Procedure

1. The EUT was placed on a rotatable table with 1.0 meter height in an fully anechoic chamber.
2. The EUT was set 1.2 meters from the receiving antenna which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiated power.
4. The height of the receiving antenna is also kept at 1.0M height.
5. Taking the record of maximum ERP/EIRP.
6. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
7. The conducted power at the terminal of the dipole antenna is measured.
8. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
9. ERP/EIRP = Ps + Et – Es + Gs = Ps + Rt – Rs + Gs

   Ps (dBm)：Input power to substitution antenna.

   Gs (dBi or dBd)：Substitution antenna Gain.

   Et = Rt + AF

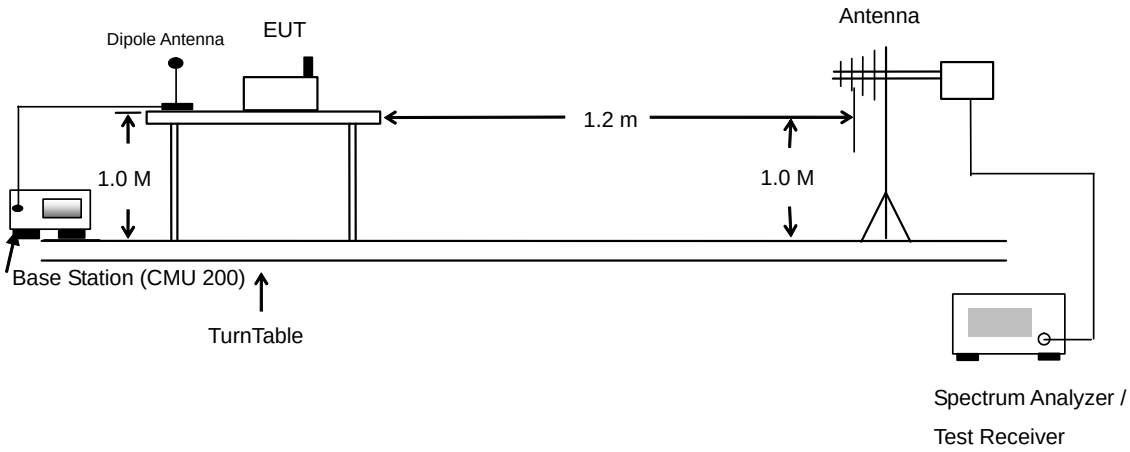
   Es = Rs + AF

   AF (dB/m)：Receive antenna factor

   Rt：The highest received signal in Spectrum Analyzer for EUT.

   Rs：The highest received signal in spectrum analyzer for substitution antenna.

4.3.3 Test Setup Layout of ERP/EIRP



4.3.4 Test Result

GSM850 (GSM) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-32.15	-48.12	0.00	-1.08	14.89	0.03
836.40	-31.07	-48.28	0.00	-0.93	16.28	0.04
848.80	-31.31	-48.35	0.00	-0.76	16.28	0.04
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-19.97	-47.97	0.00	-1.08	26.92	0.49
836.40	-19.80	-48.01	0.00	-0.93	27.28	0.53
848.80	**-19.31**	**-48.05**	**0.00**	**-0.76**	**27.98**	**0.63**

GSM850 (EDGE) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-27.37	-48.12	0.00	-1.08	19.67	0.09
836.40	**-23.51**	**-48.28**	**0.00**	**-0.93**	**23.84**	**0.24**
848.80	-23.80	-48.35	0.00	-0.76	23.79	0.24
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-40.50	-47.97	0.00	-1.08	6.39	0.00
836.40	-34.41	-48.01	0.00	-0.93	12.67	0.02
848.80	-35.24	-48.05	0.00	-0.76	12.05	0.02

PCS1900 (GSM) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-26.53	-51.88	0.00	1.96	27.31	0.54
1880.00	**-26.70**	**-52.99**	**0.00**	**2.00**	**28.29**	**0.67**
1909.80	-28.00	-54.28	0.00	1.98	28.26	0.67
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-30.50	-52.13	0.00	1.96	23.59	0.23
1880.00	-30.92	-53.17	0.00	2.00	24.25	0.27
1909.80	-31.99	-54.13	0.00	1.98	24.12	0.26

PCS1900 (EDGE) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-28.41	-51.88	0.00	1.96	25.43	0.35
1880.00	**-27.95**	**-52.99**	**0.00**	**2.00**	**27.04**	**0.51**
1909.80	-29.59	-54.28	0.00	1.98	26.67	0.46
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-29.25	-52.13	0.00	1.96	24.84	0.30
1880.00	-29.91	-53.17	0.00	2.00	25.26	0.34
1909.80	-31.66	-54.13	0.00	1.98	24.45	0.28

4.4 Occupied Bandwidth and Band Edge Measurement

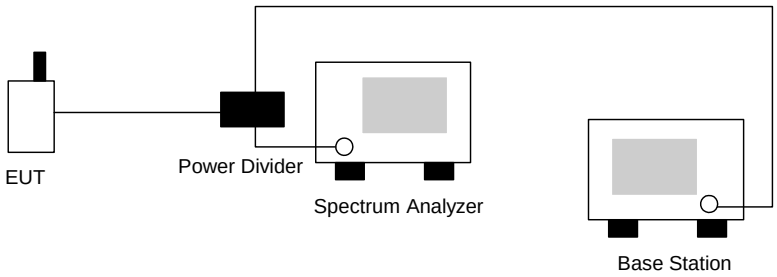
4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

4.4.2 Test Procedure

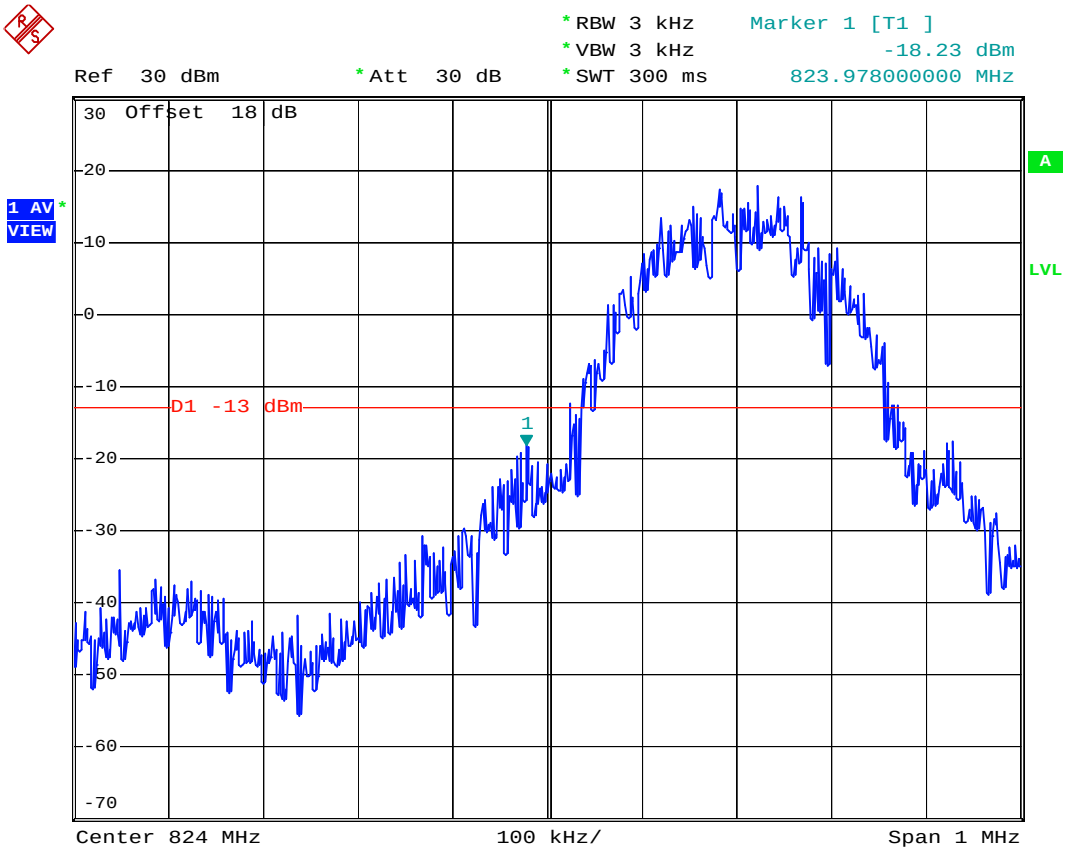
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The 99% occupied bandwidth of middle channel for the highest and lowest RF powers were measured.
3. The bandedge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/100.

4.4.3 Test Setup Layout



4.4.4 Test Result

- Mode 1
- Test Mode : GSM850 (GSM) CH128 Lower Band Edge
- Power State : High



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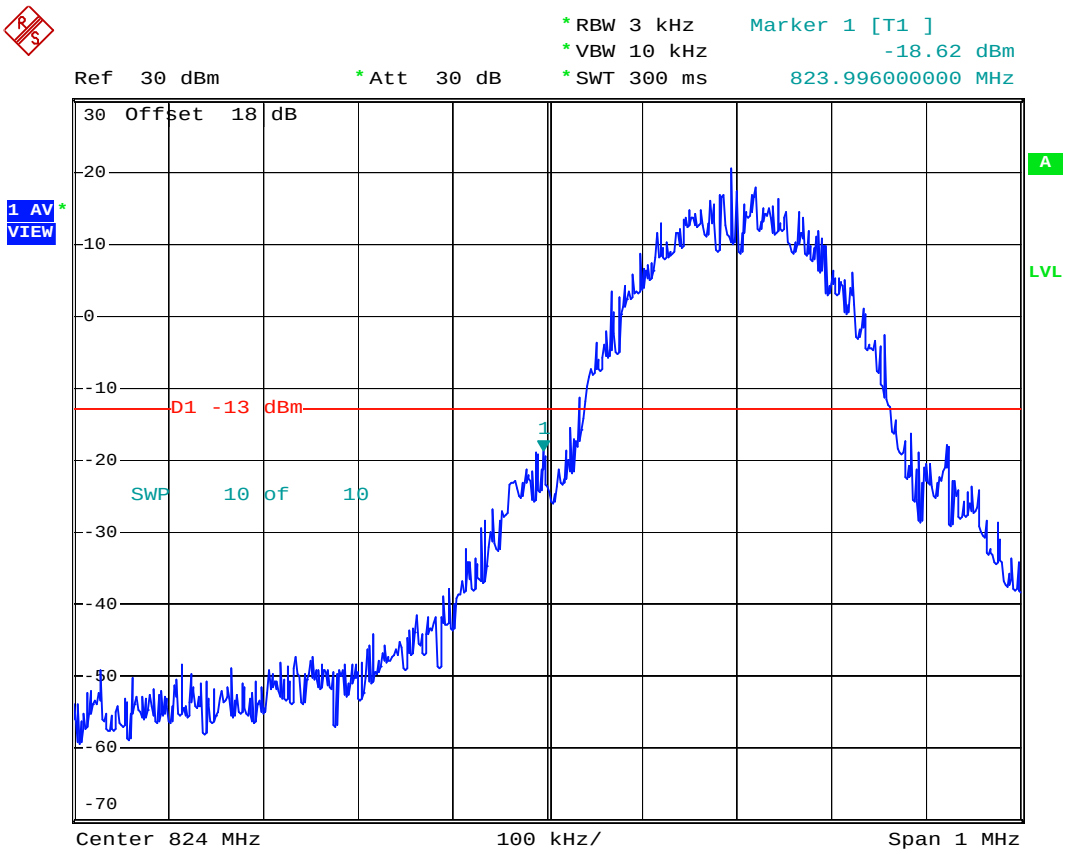

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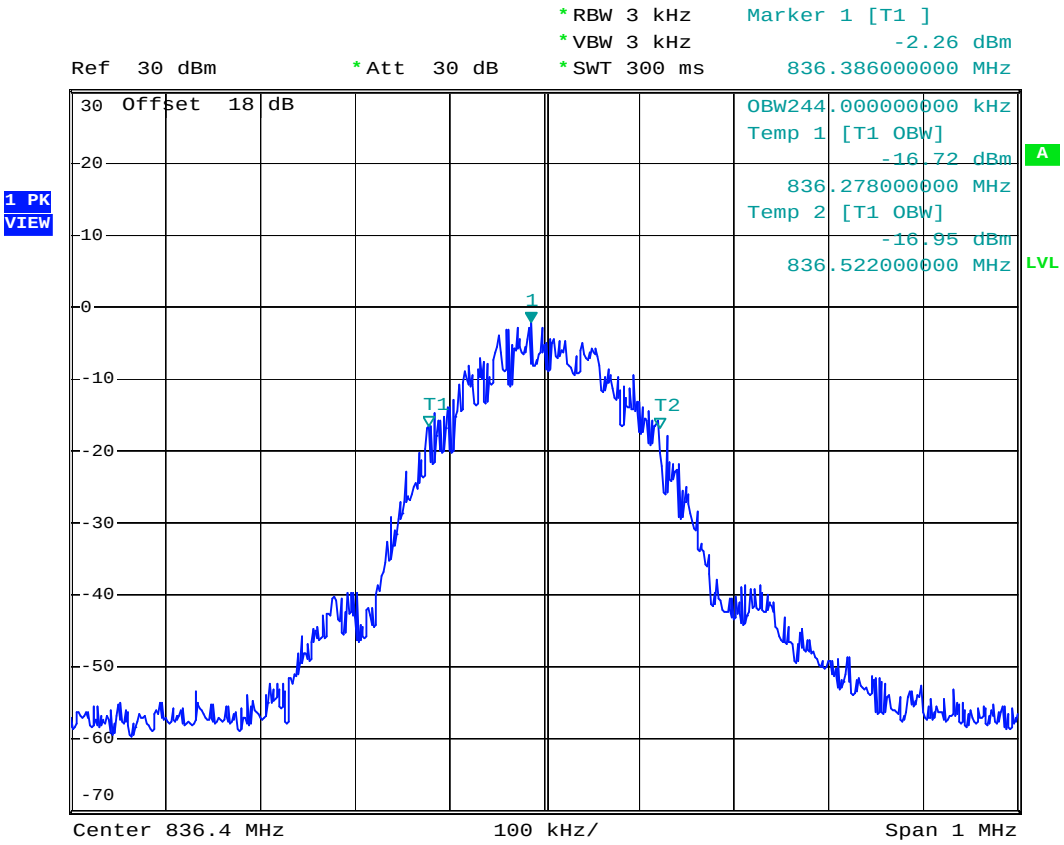
- Test Mode : GSM850 (GSM) CH189 99% Occupid Bandwidth
- Power State : Low



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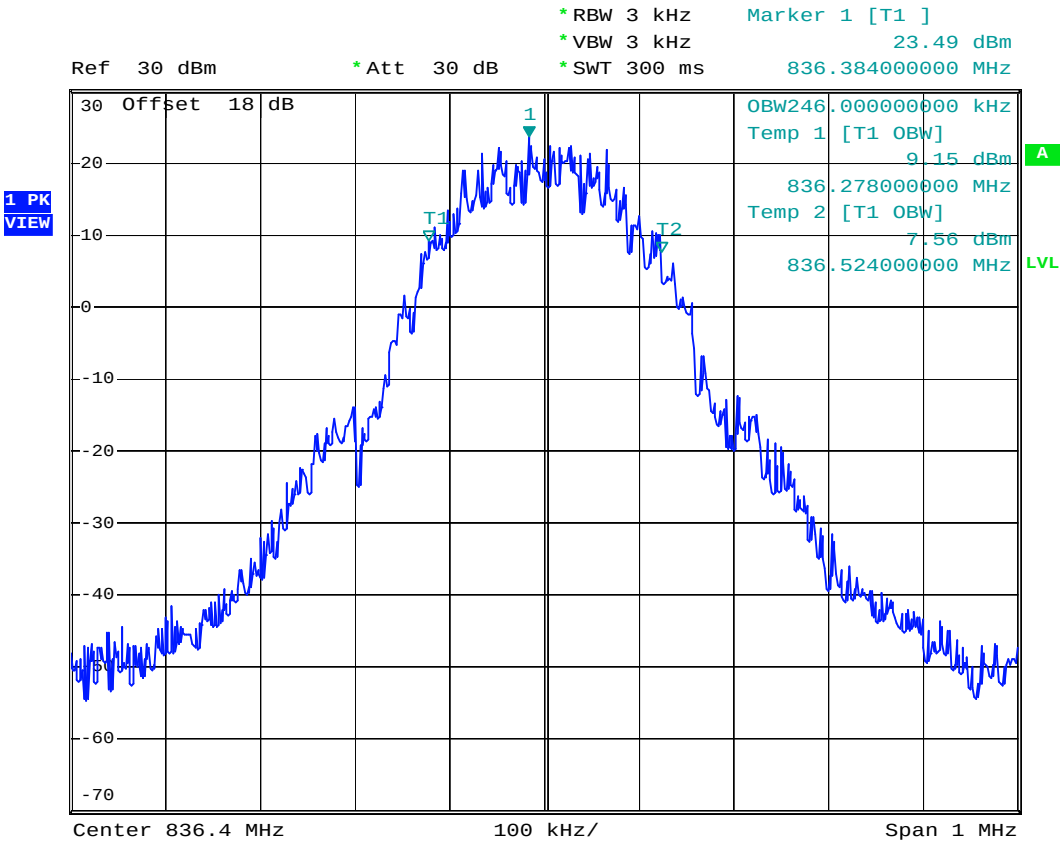
- Test Mode : GSM850 (GSM) CH189 99% Occupid Bandwidth
- Power State : High



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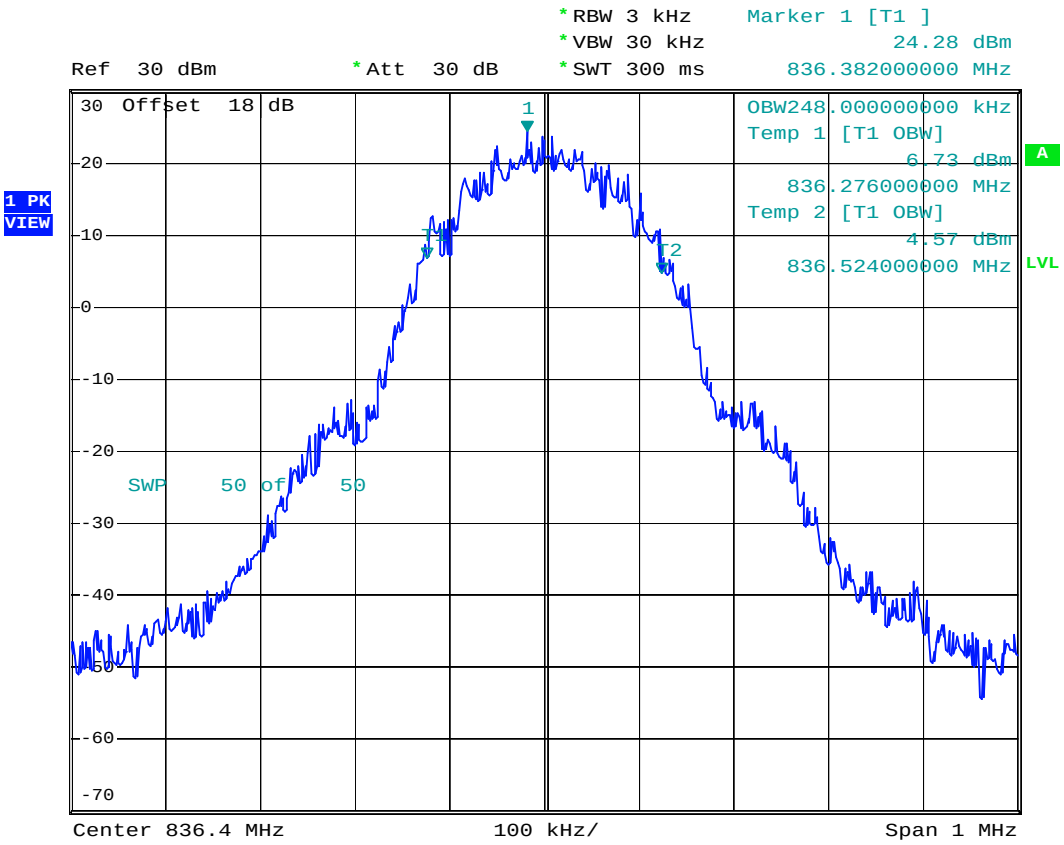

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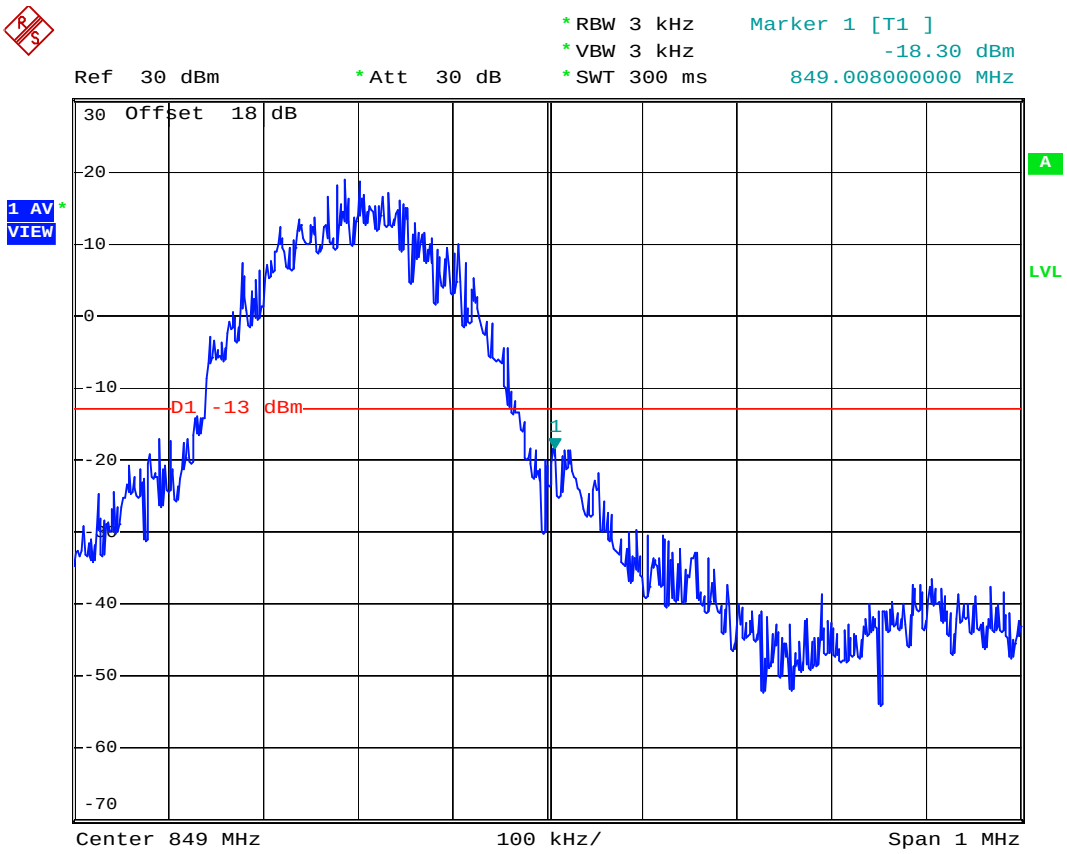
- Test Mode : GSM850 (GSM) CH251 Higher Band Edge
- Power State : High



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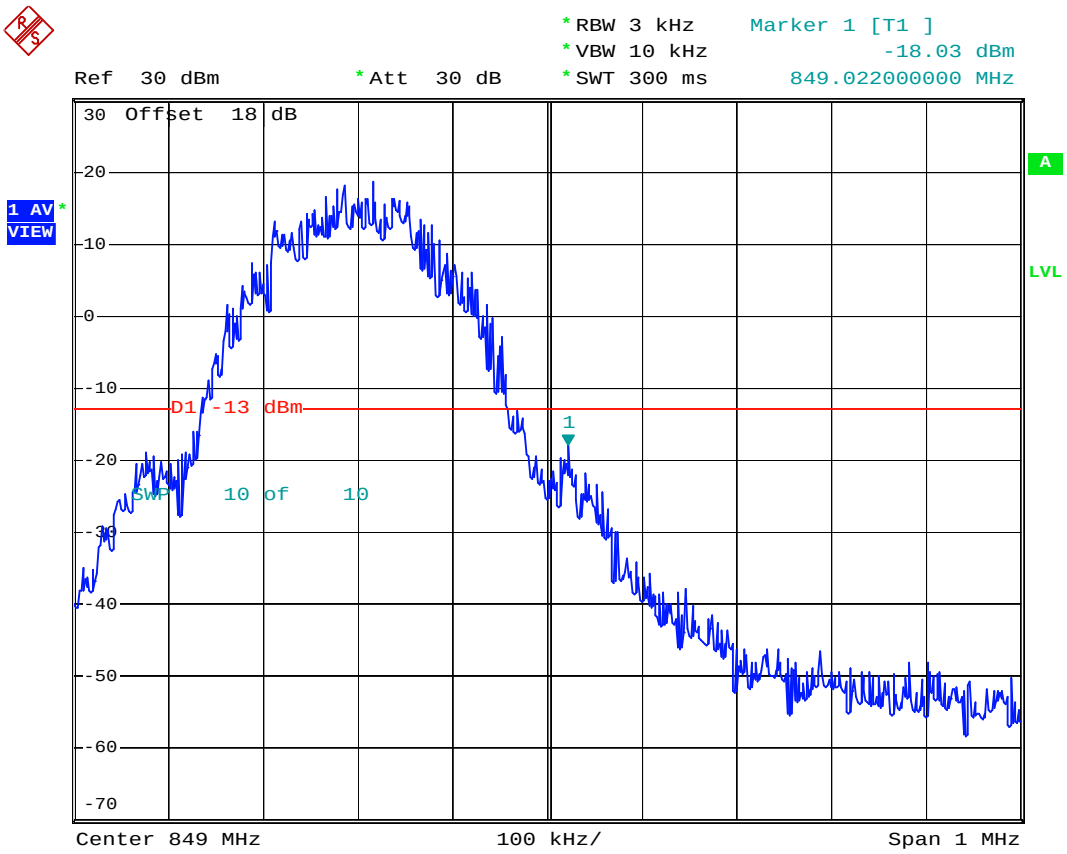

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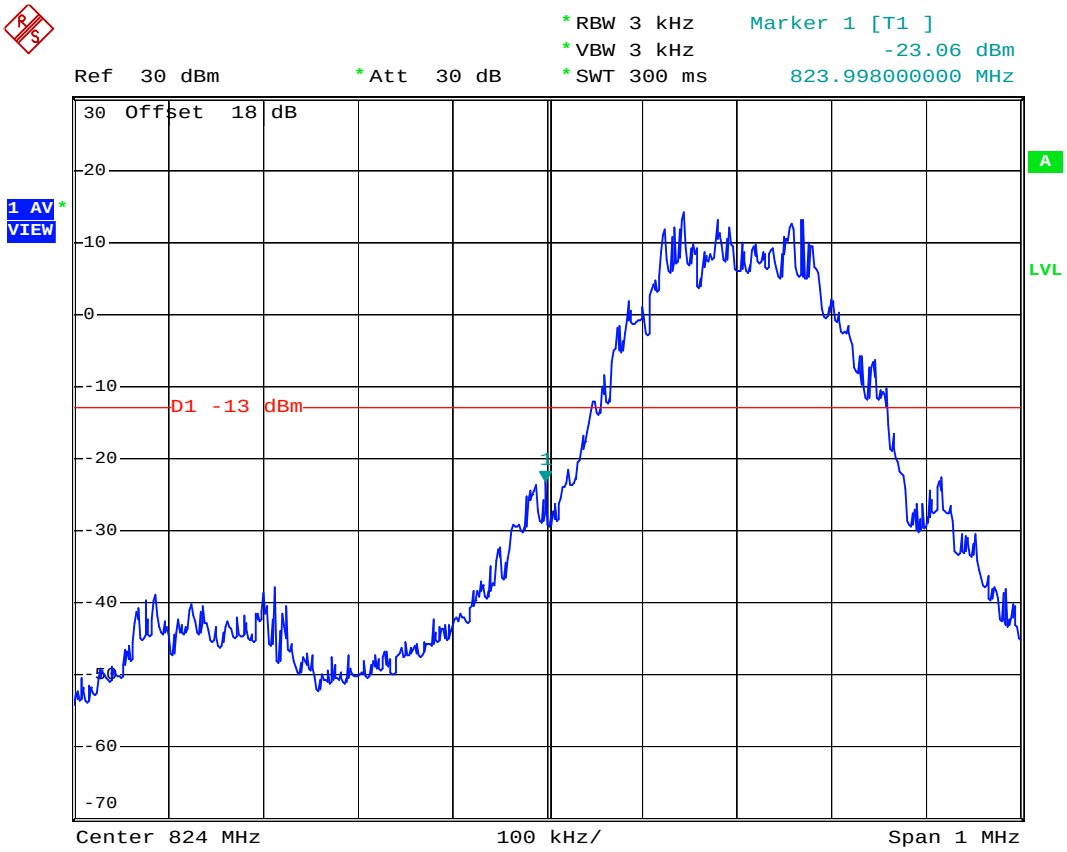
- Mode 2
- Test Mode : GSM850 (EDGE) CH128 Lower Band Edge
- Power State : High



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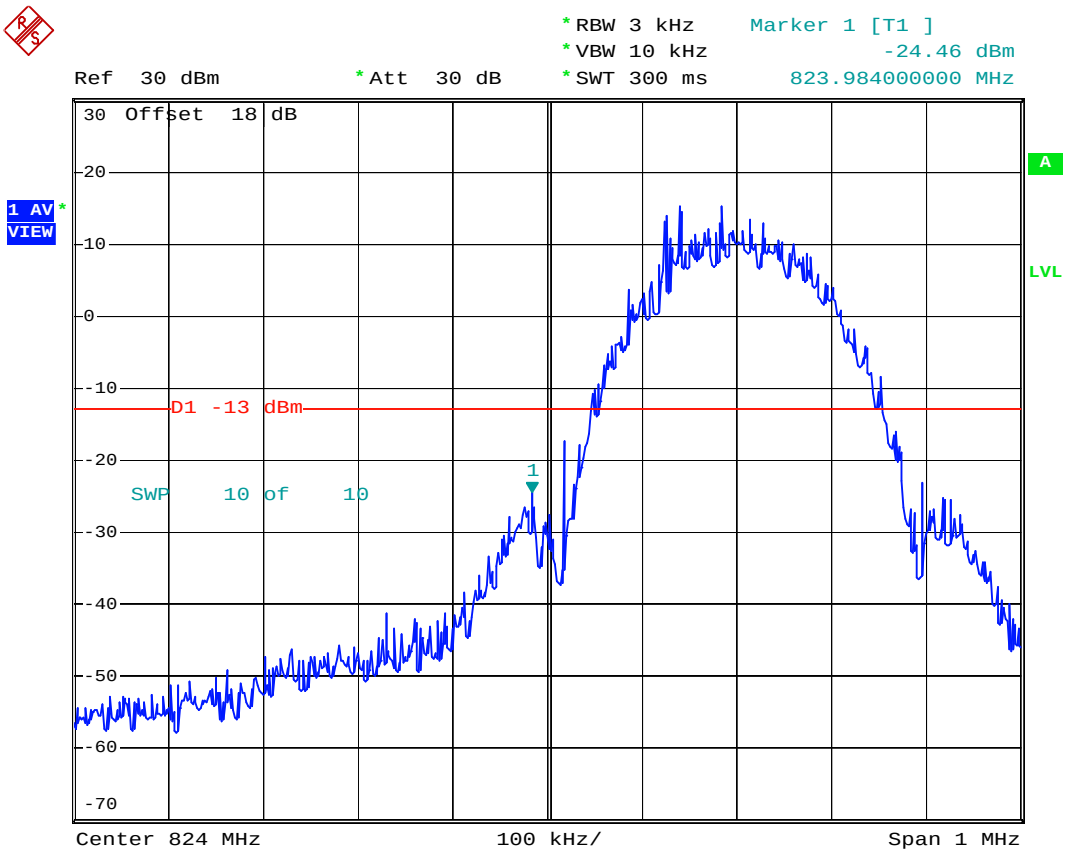

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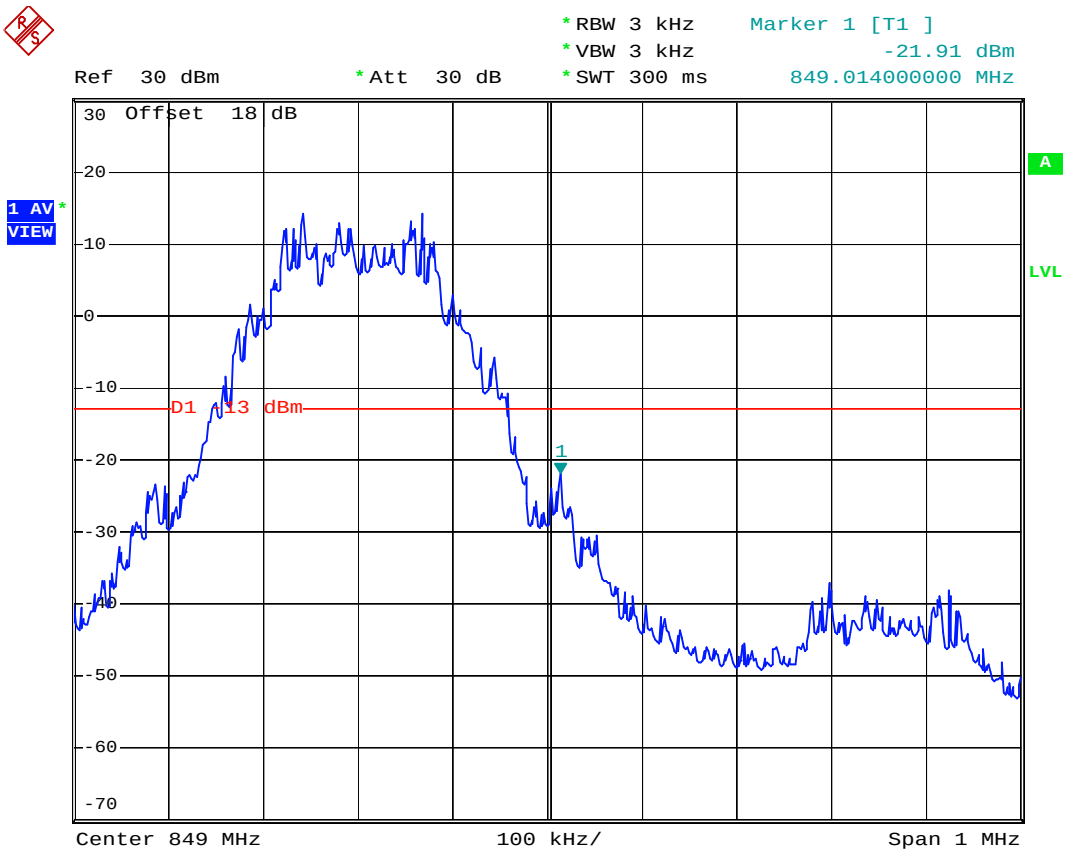
- Test Mode : GSM850 (EDGE) CH251 Higher Band Edge
- Power State : High



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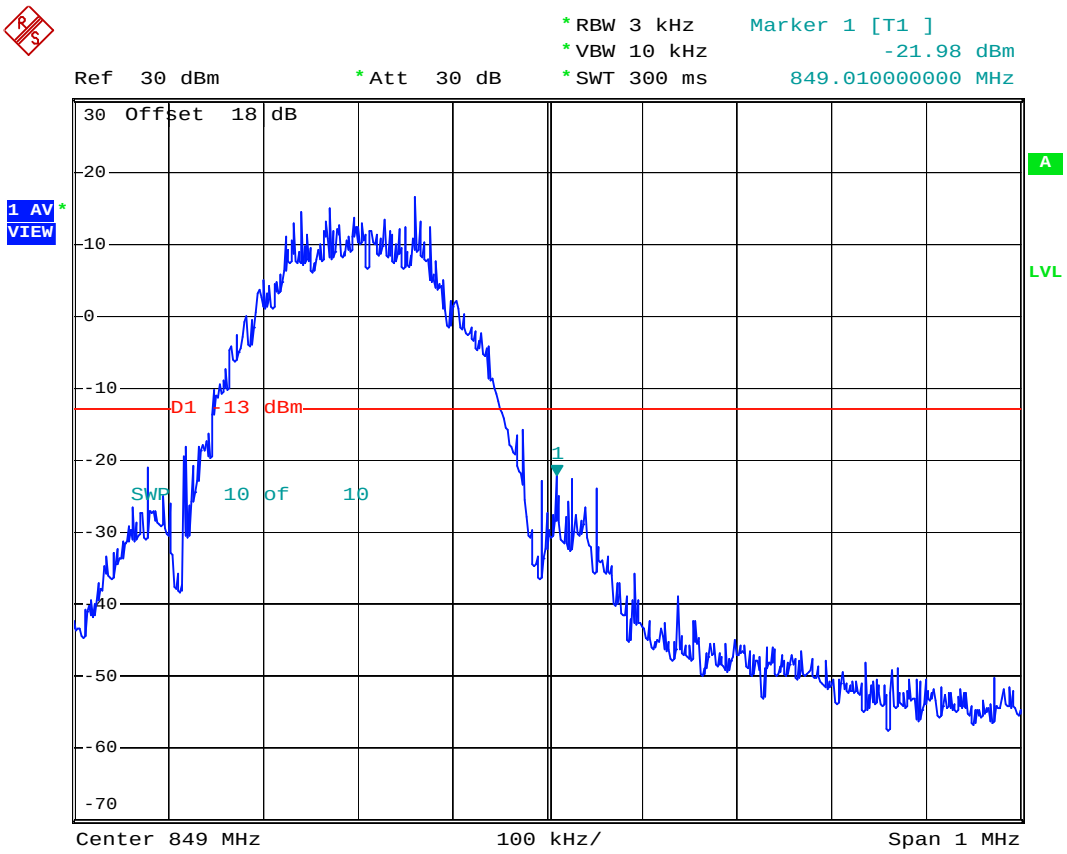

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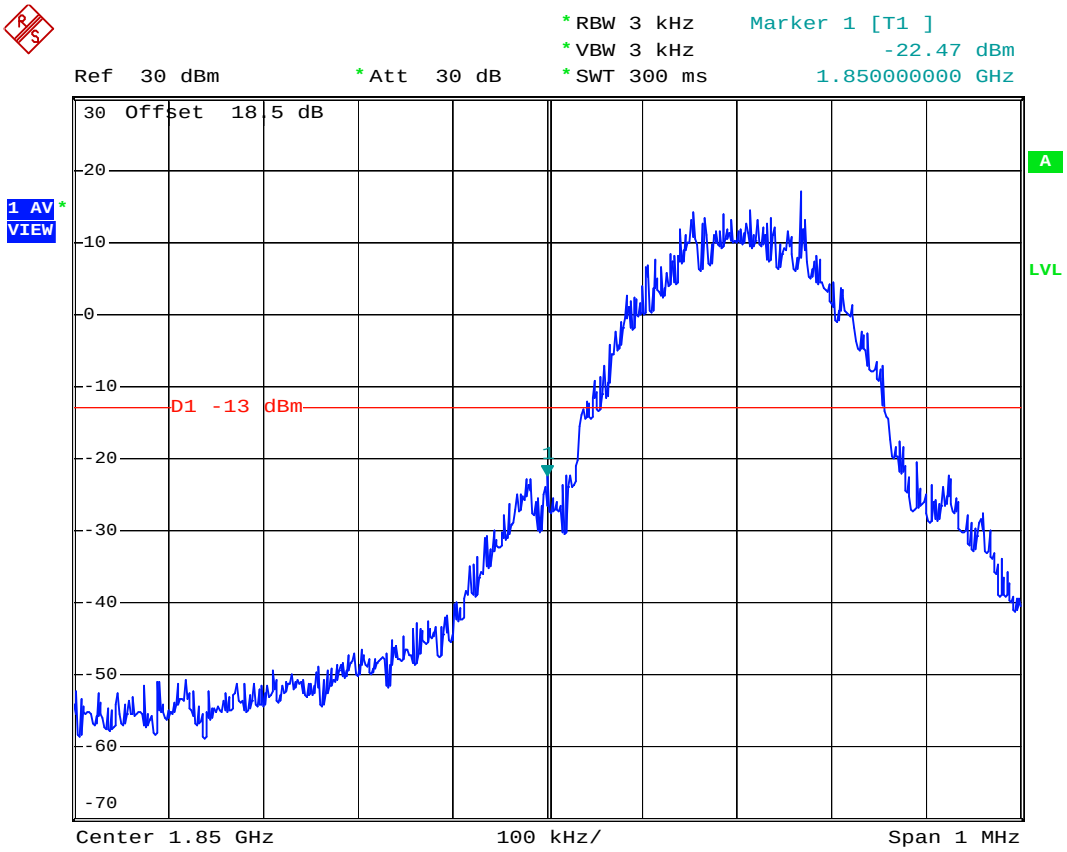
- Mode 3
- Test Mode : PCS1900 (GSM) CH512 Lower Band Edge
- Power State : High



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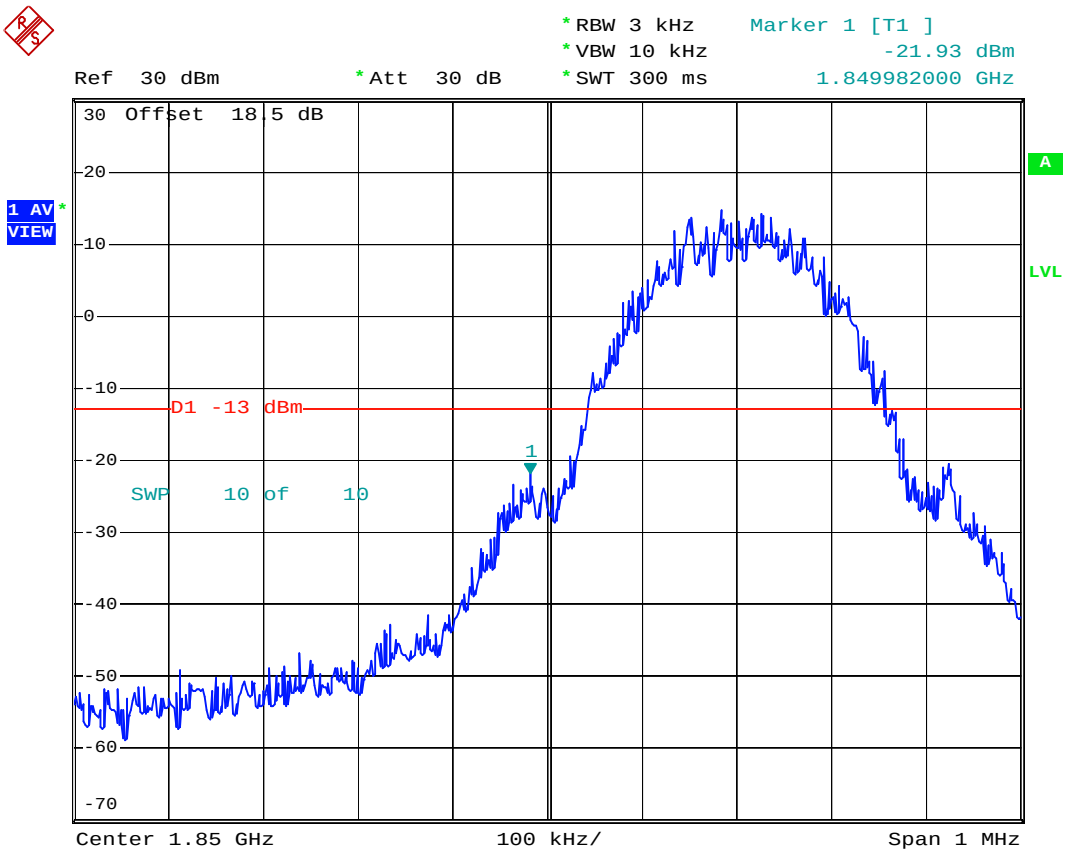

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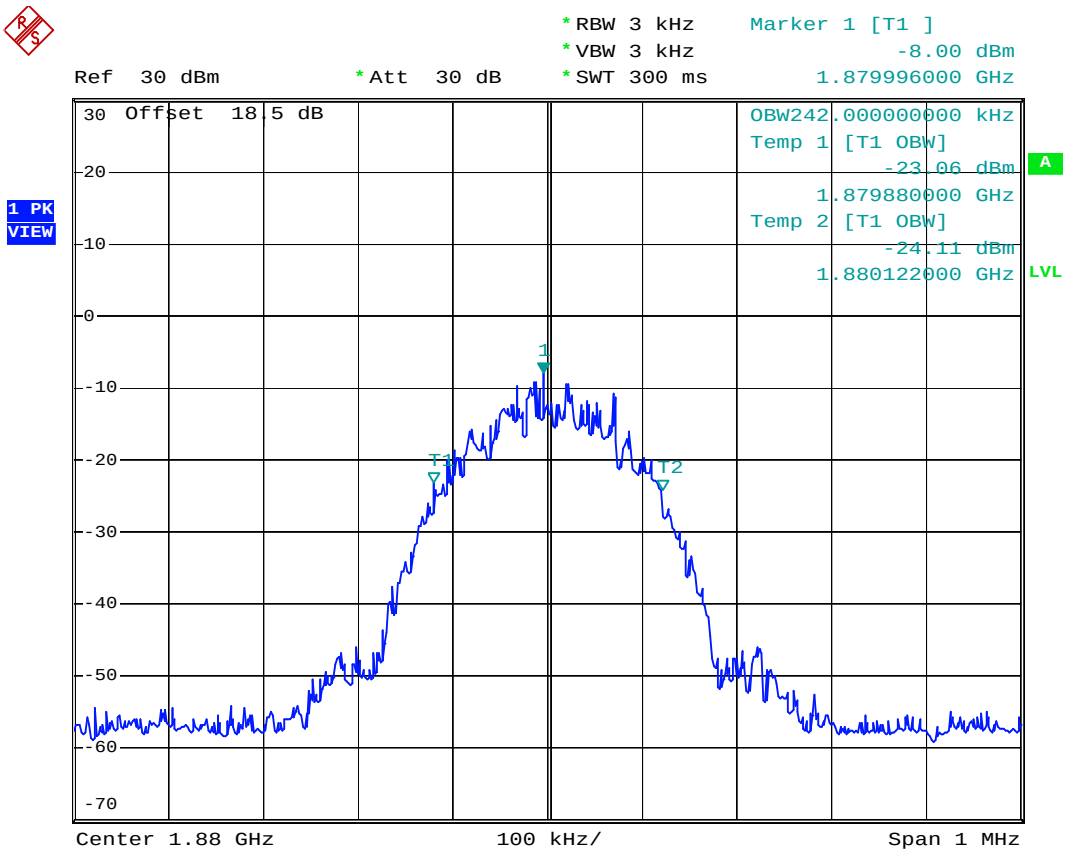
- Test Mode : PCS1900 (GSM) CH661 99% Occupid Bandwidth
- Power State : Low



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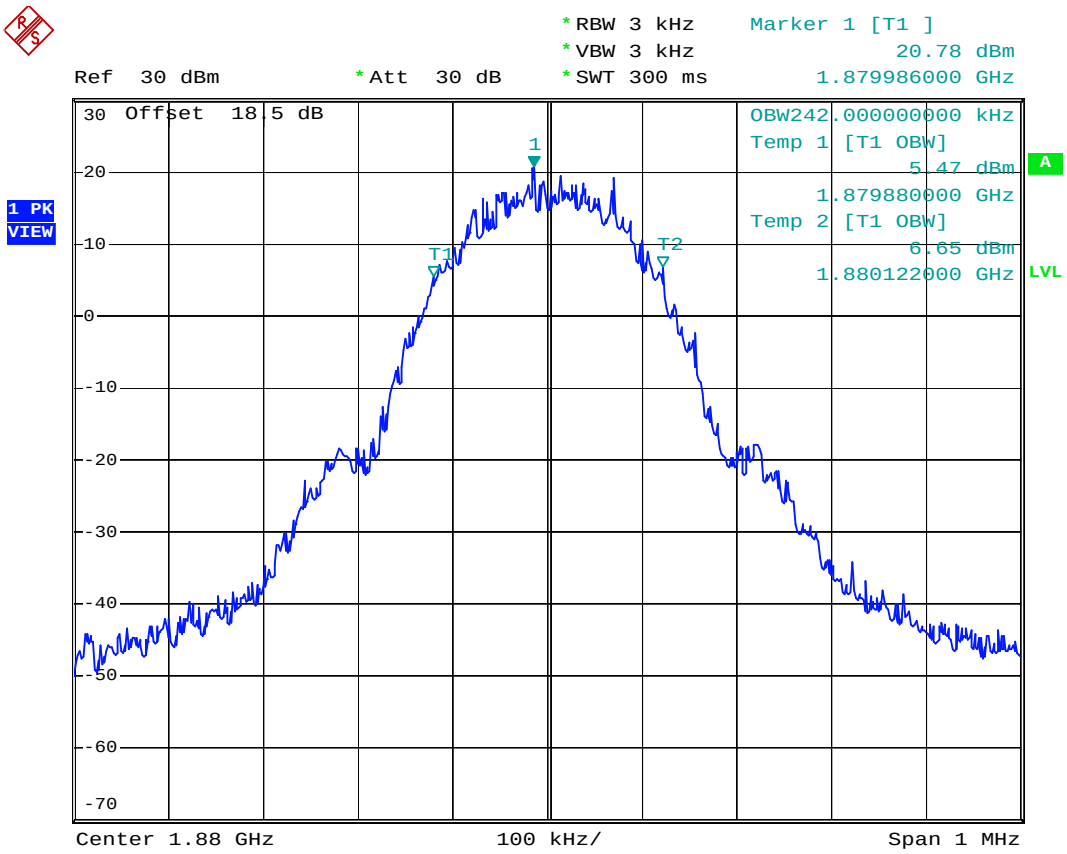
- Test Mode : PCS1900 (GSM) CH661 99% Occupid Bandwidth
- Power State : High



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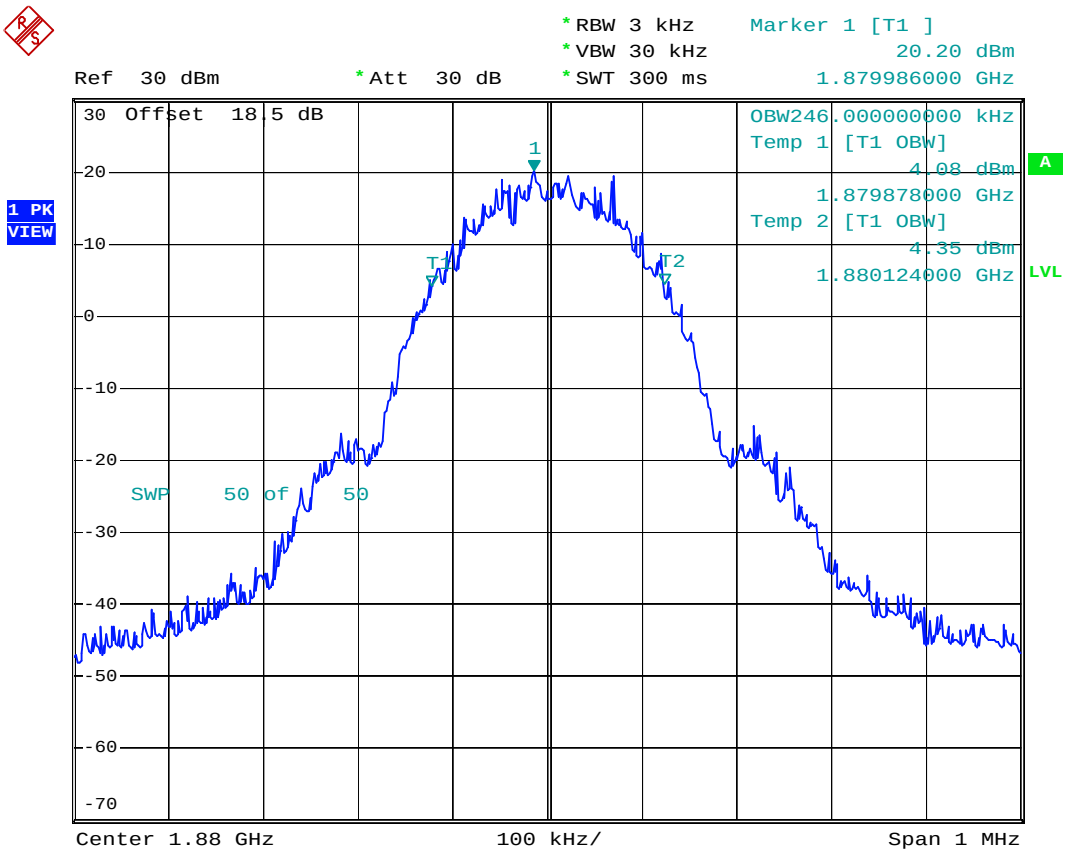

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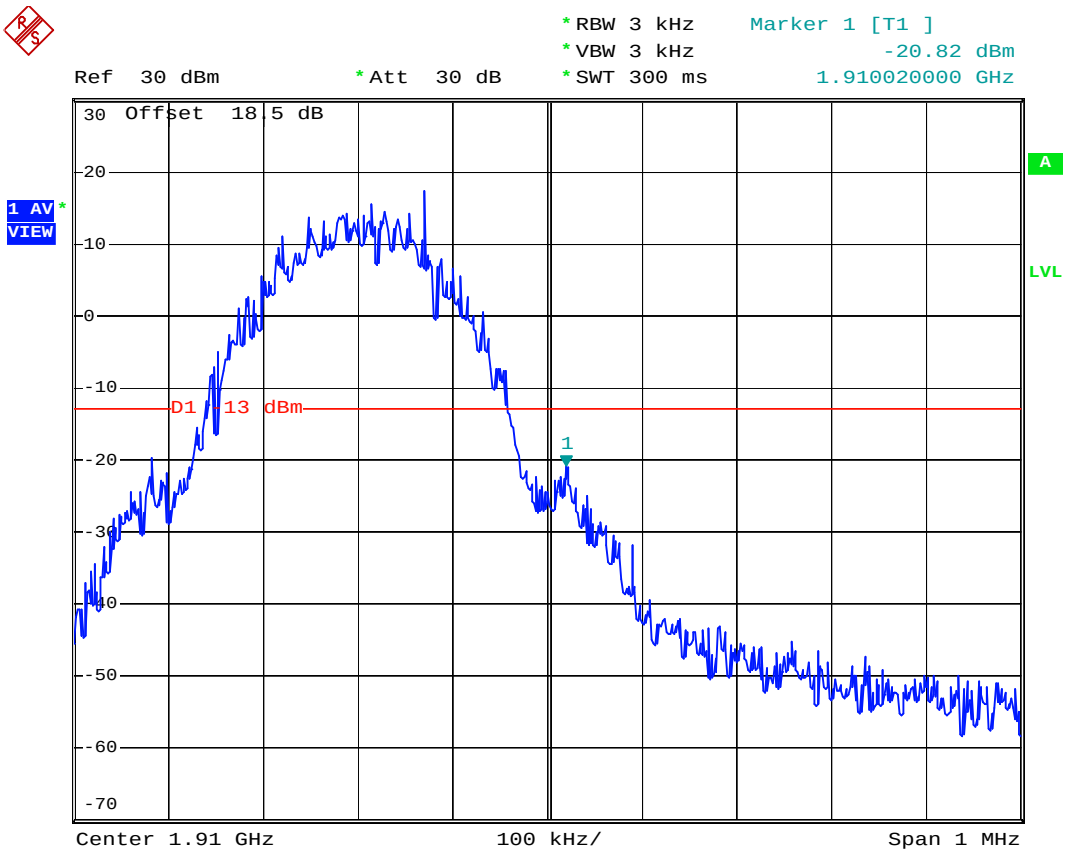
- Test Mode : PCS1900 (GSM) CH810 Higher Band Edge
- Power State : High



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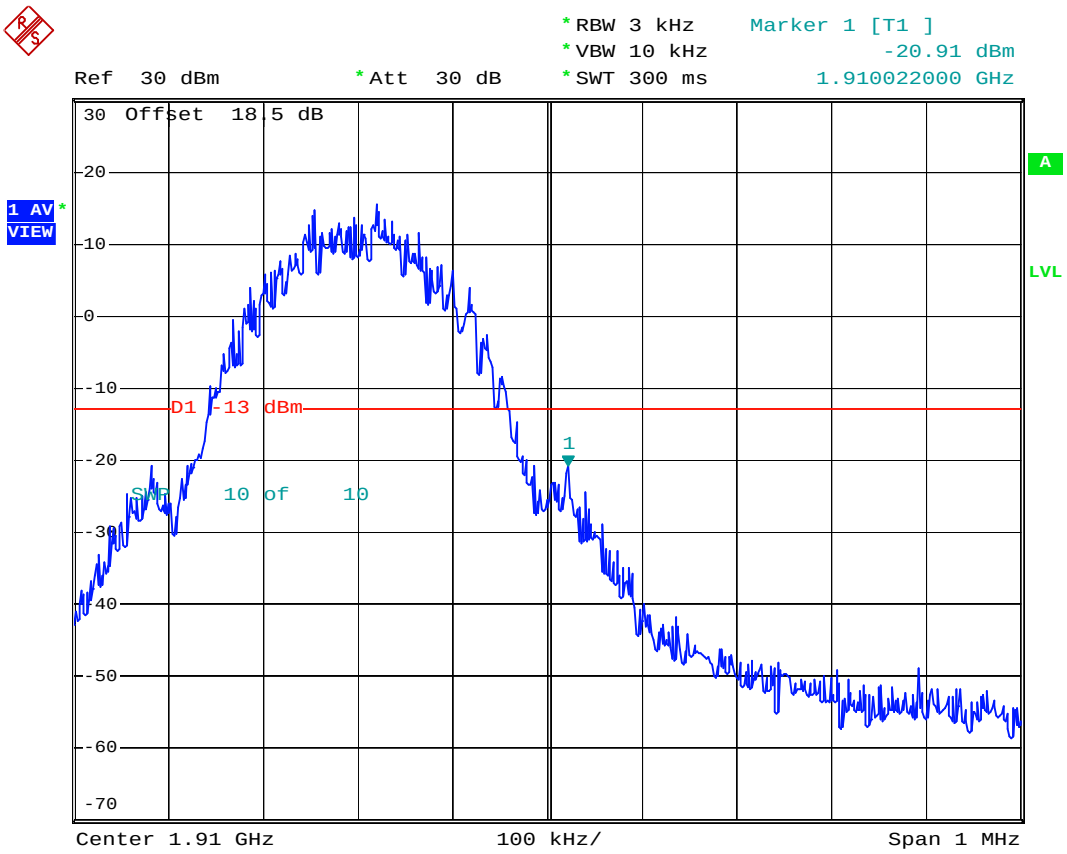
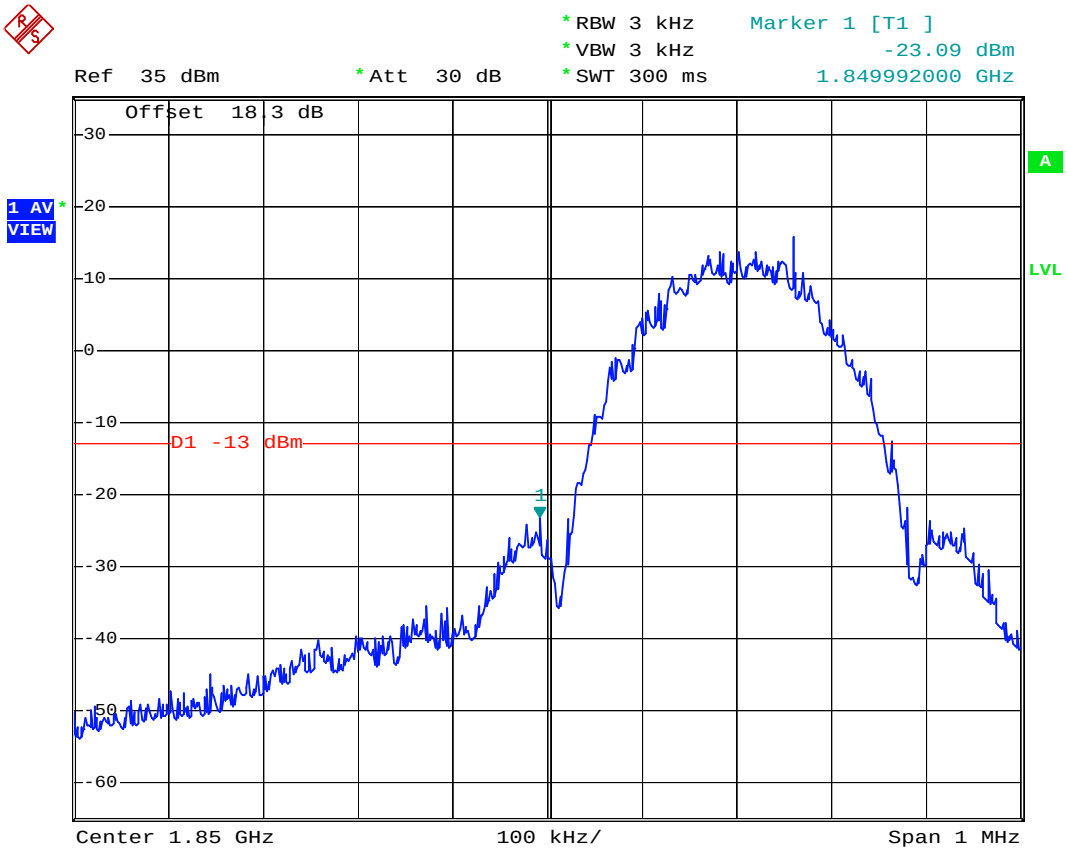


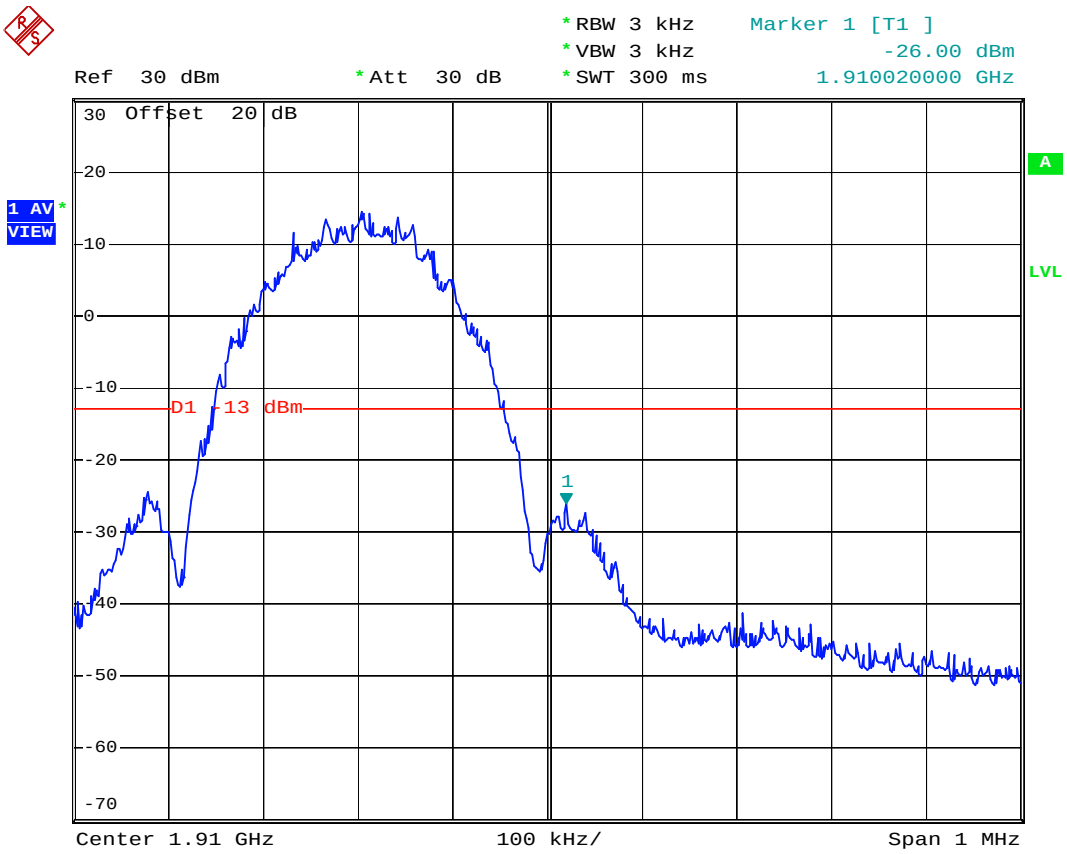
Date: 23.APR.2007 15:30:12

- Mode 4
- Test Mode : PCS1900 (EDGE) CH512 Lower Band Edge
- Power State : High



Date: 27.JAN.2007 16:25:29

- Test Mode : PCS1900(EDGE) CH810 Higher Band Edge
- Power State : High



Date: 26.APR.2007 05:57:08

4.5 Conducted Emission

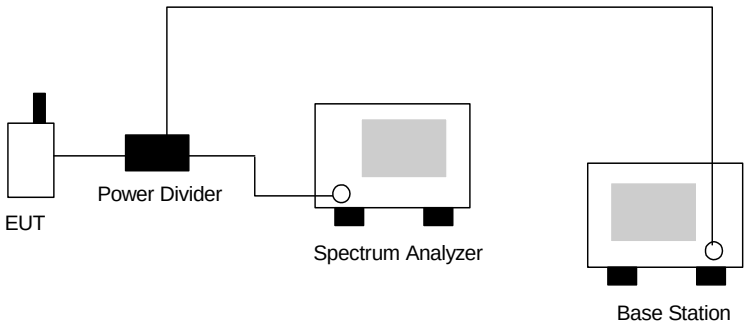
4.5.1 Measurement Instruments

As described in chapter 5 of this test report.

4.5.2 Test Procedure

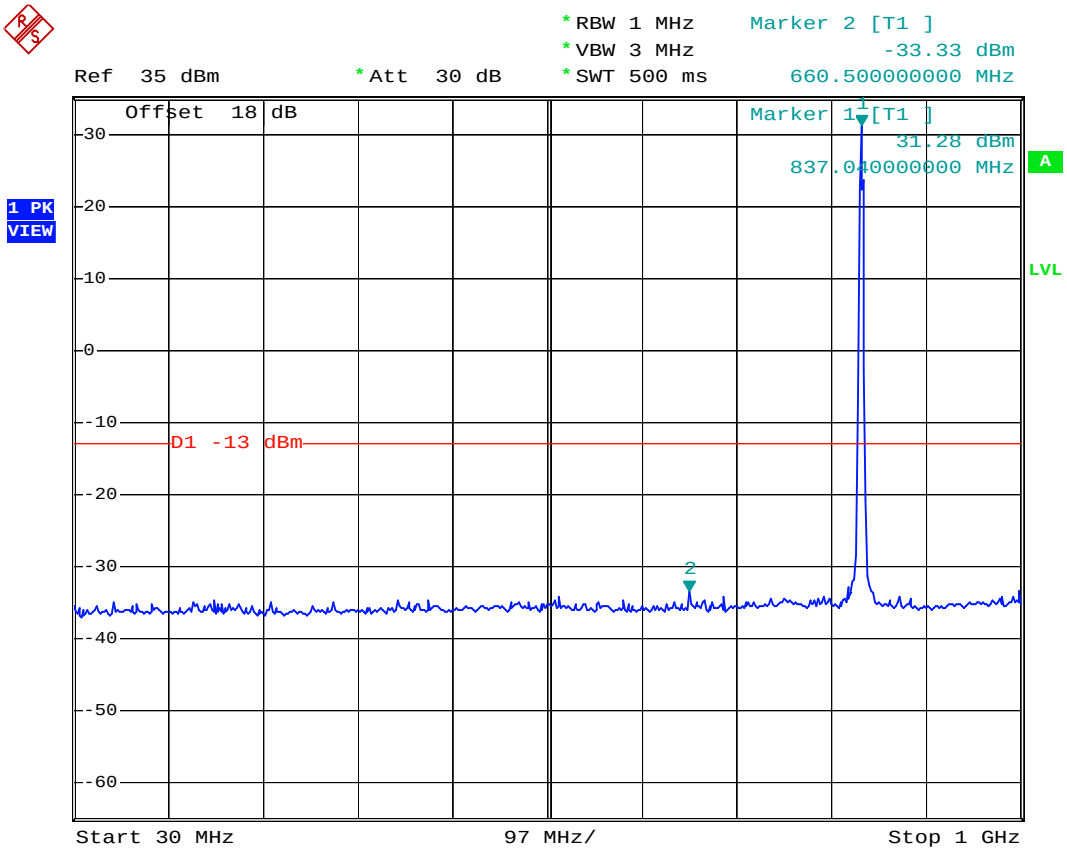
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.

4.5.3 Test Setup Layout



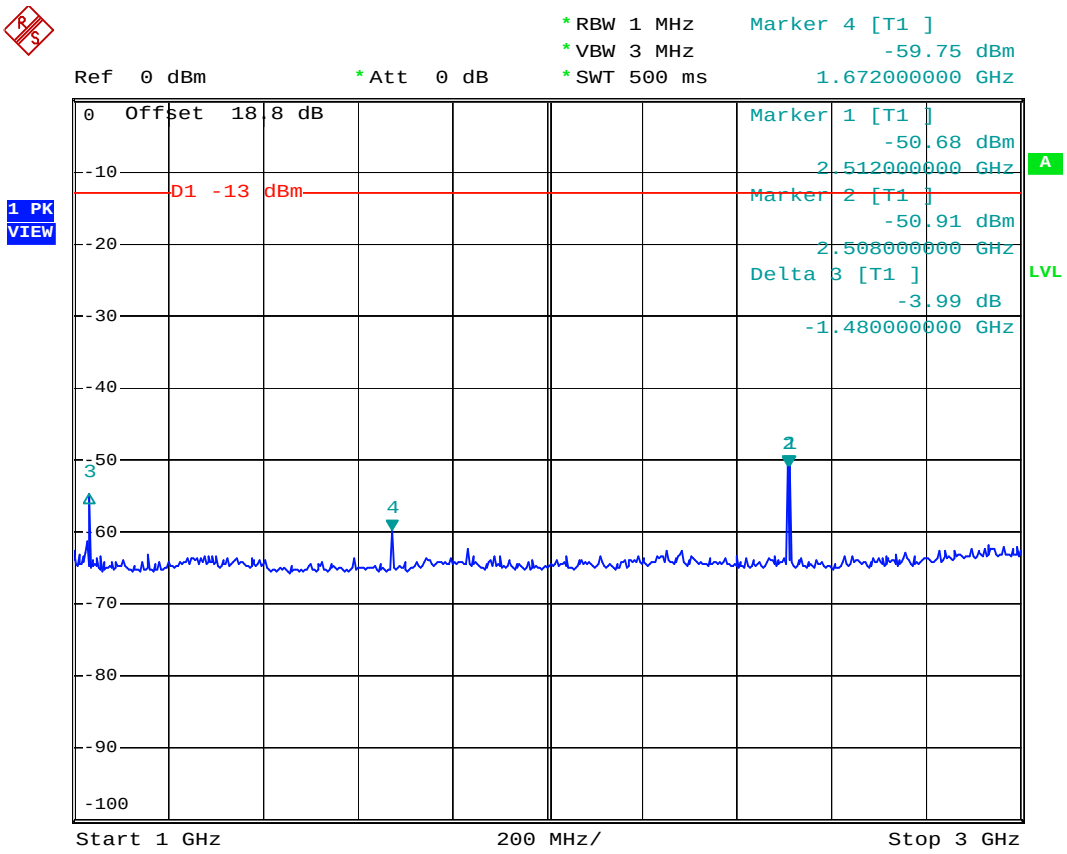
4.5.4 Test Result

- Mode 1
- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 30M-1G



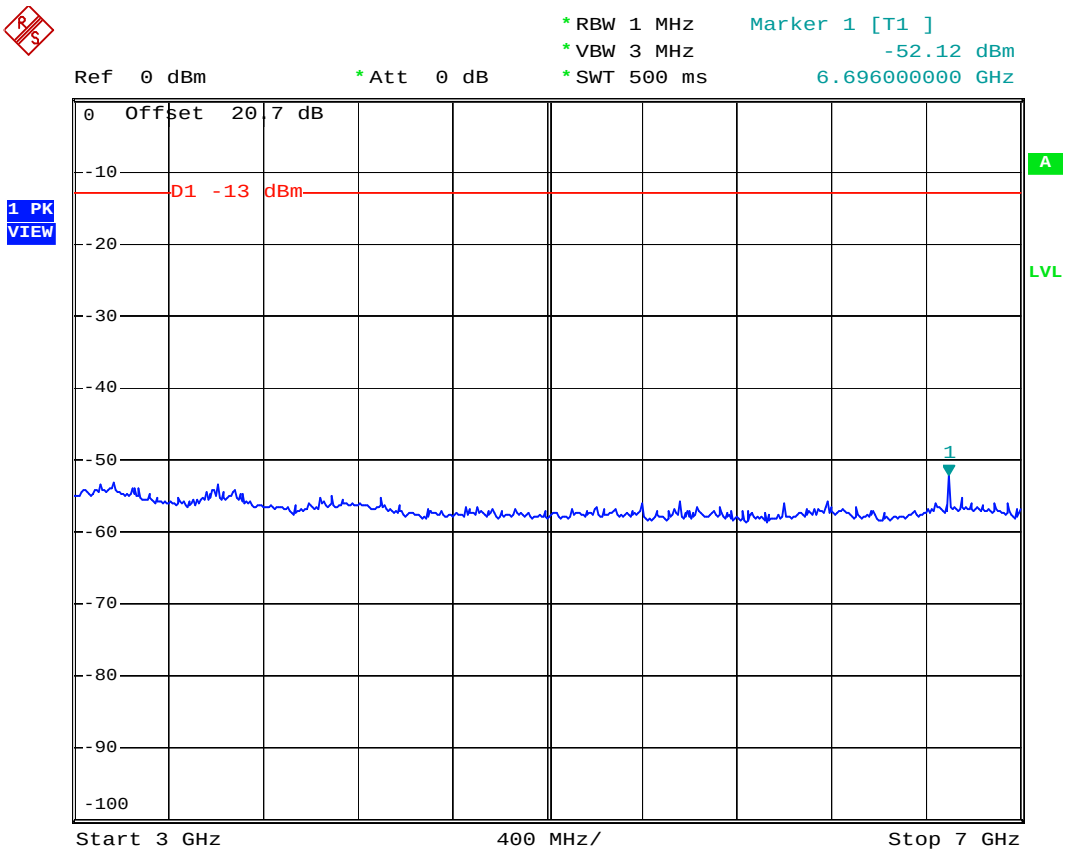
Date: 22.APR.2007 14:12:14

- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 1G-3G



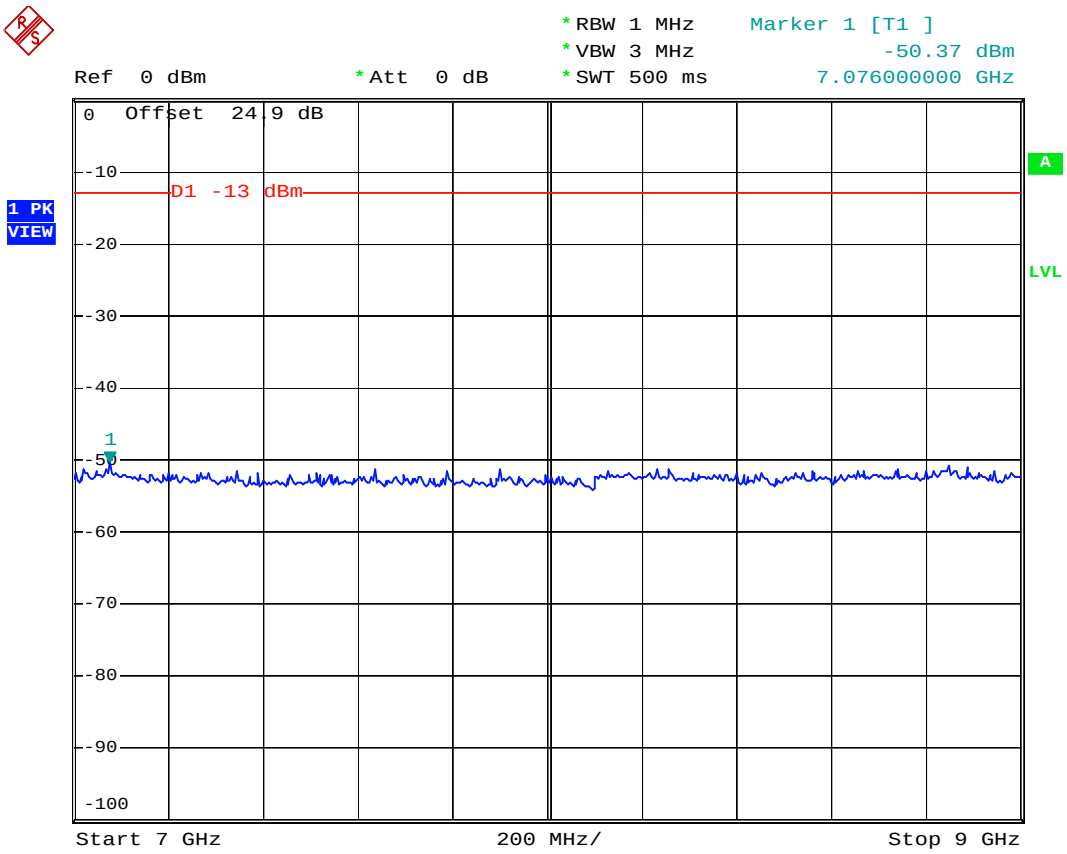
Date: 22.APR.2007 14:26:04

- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 3G-7G



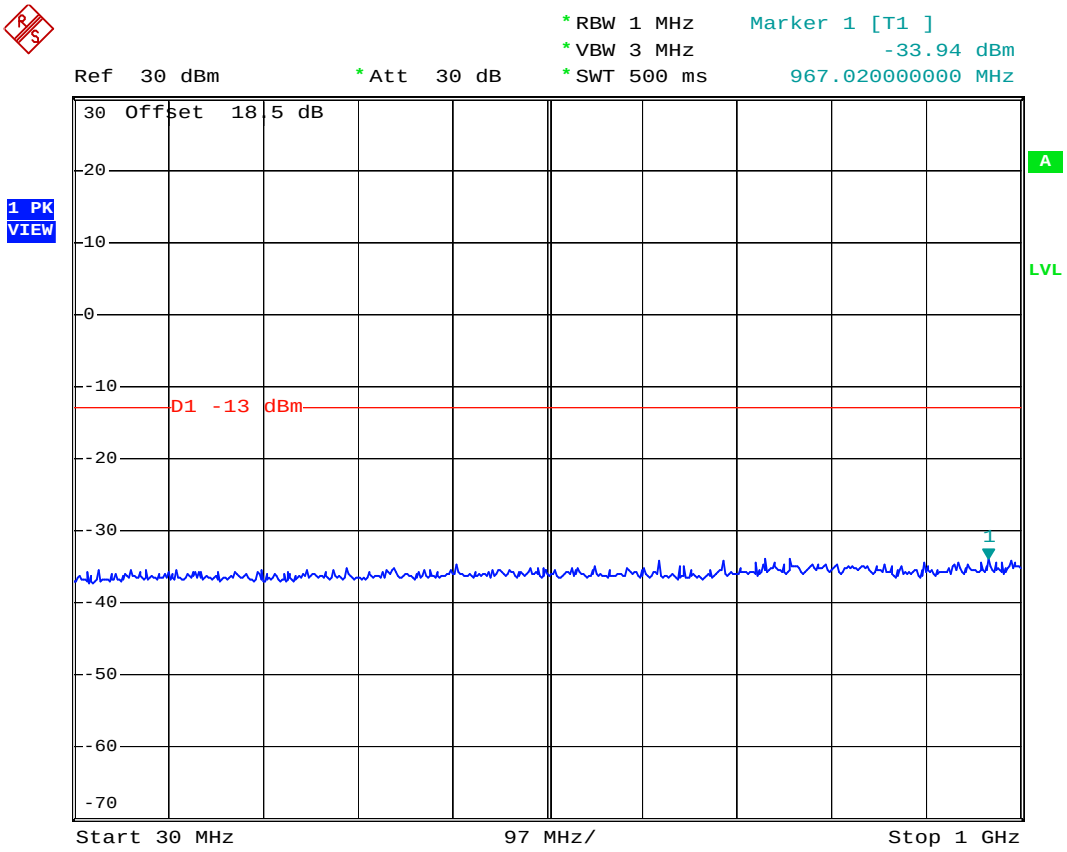
Date: 22.APR.2007 14:15:39

- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 7G-9G



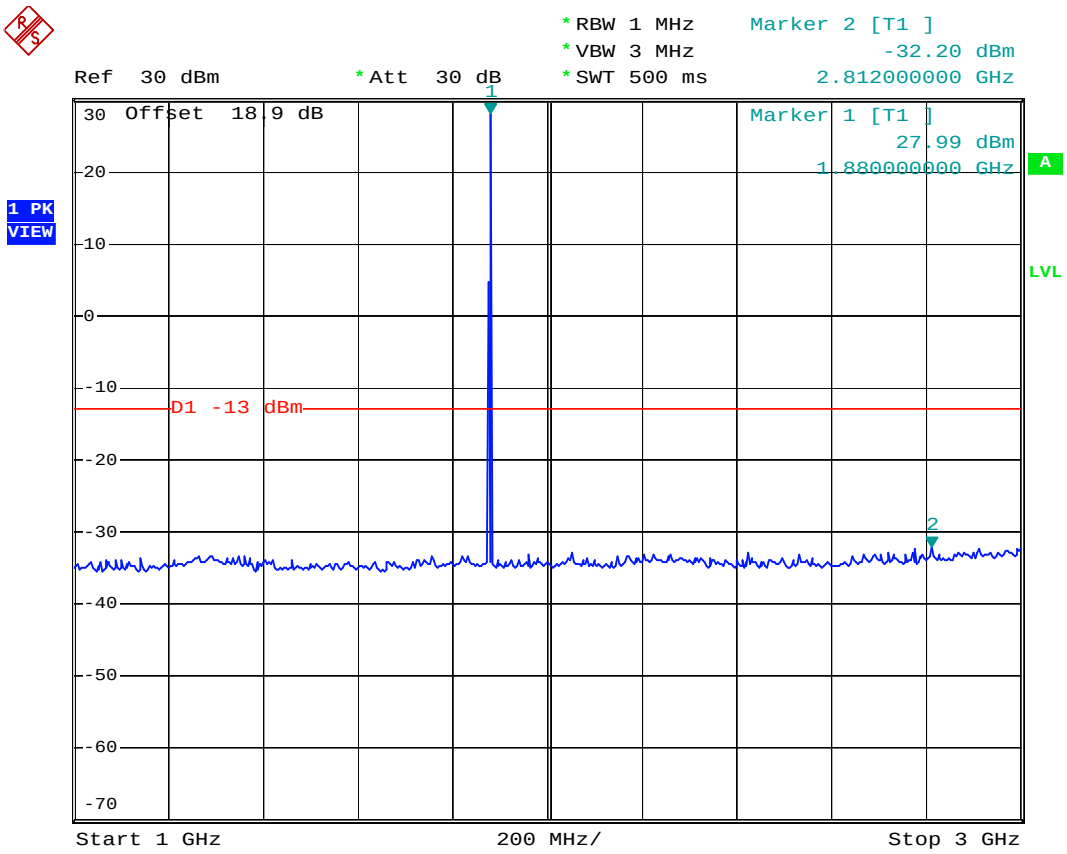
Date: 22.APR.2007 14:18:01

- Mode 3
- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 30M-1G



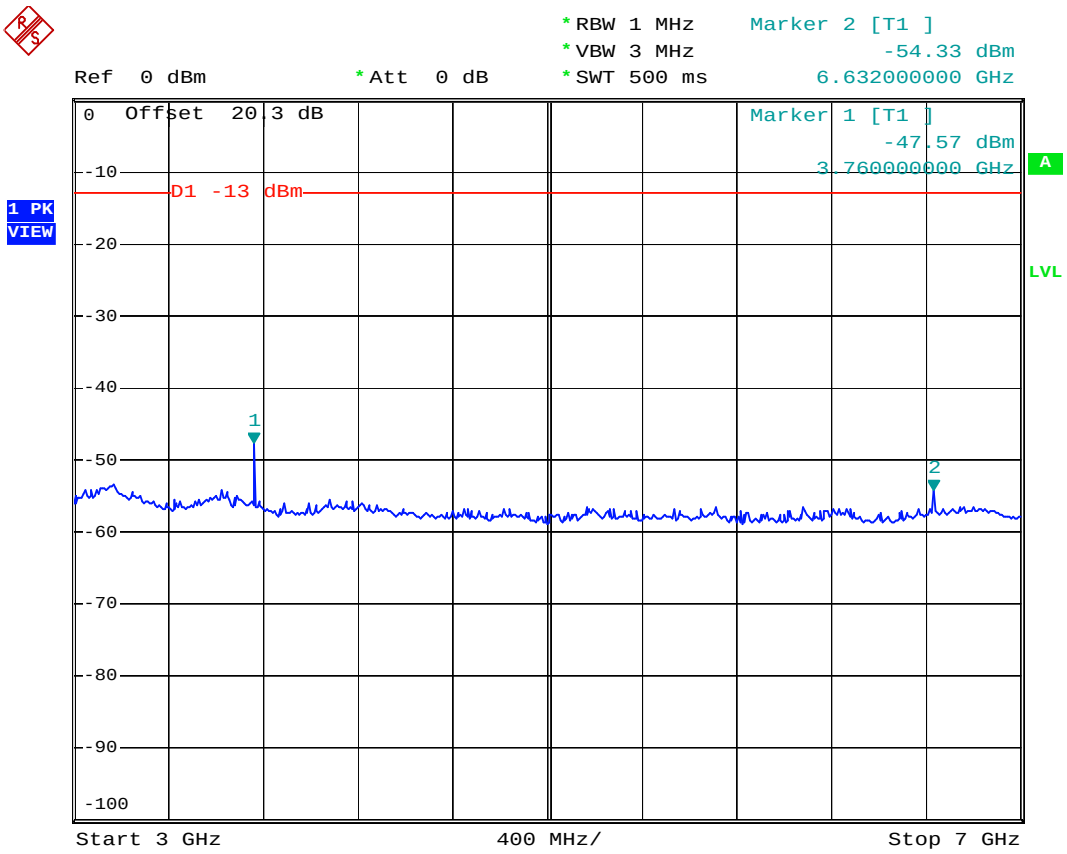
Date: 22.APR.2007 11:20:52

- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 1G-3G



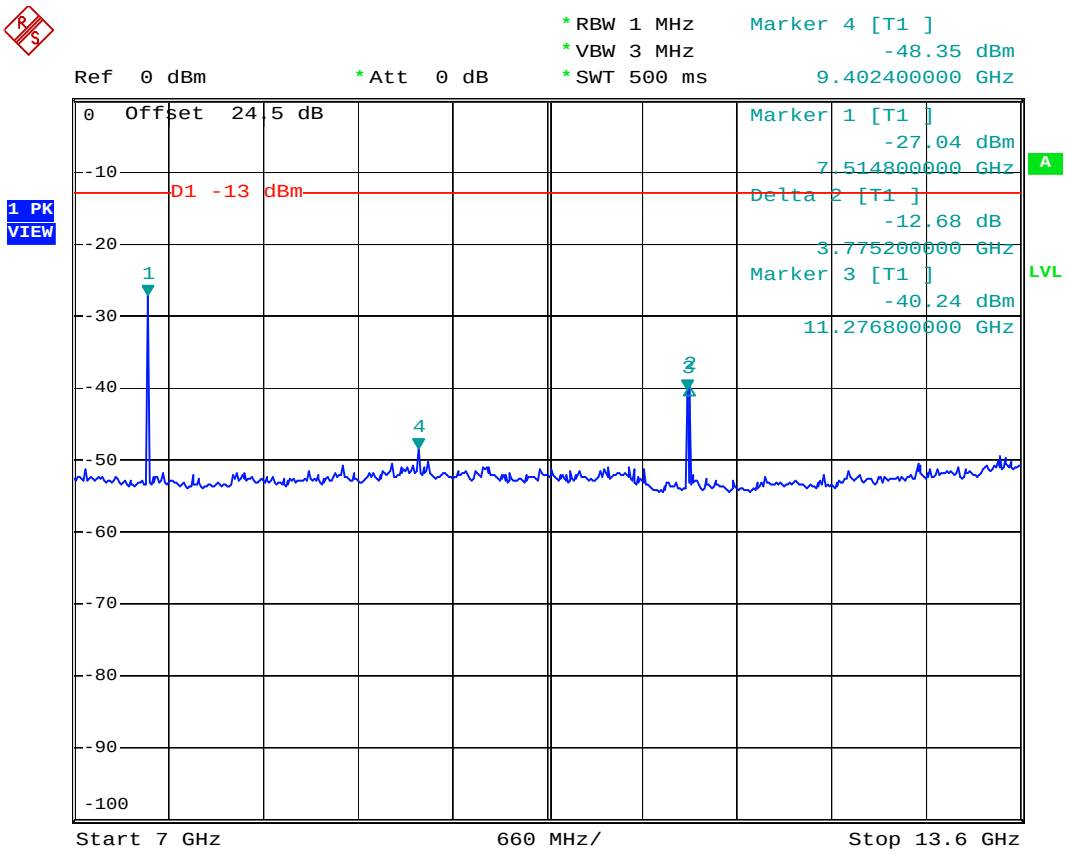
Date: 22.APR.2007 11:34:03

- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 3G-7G



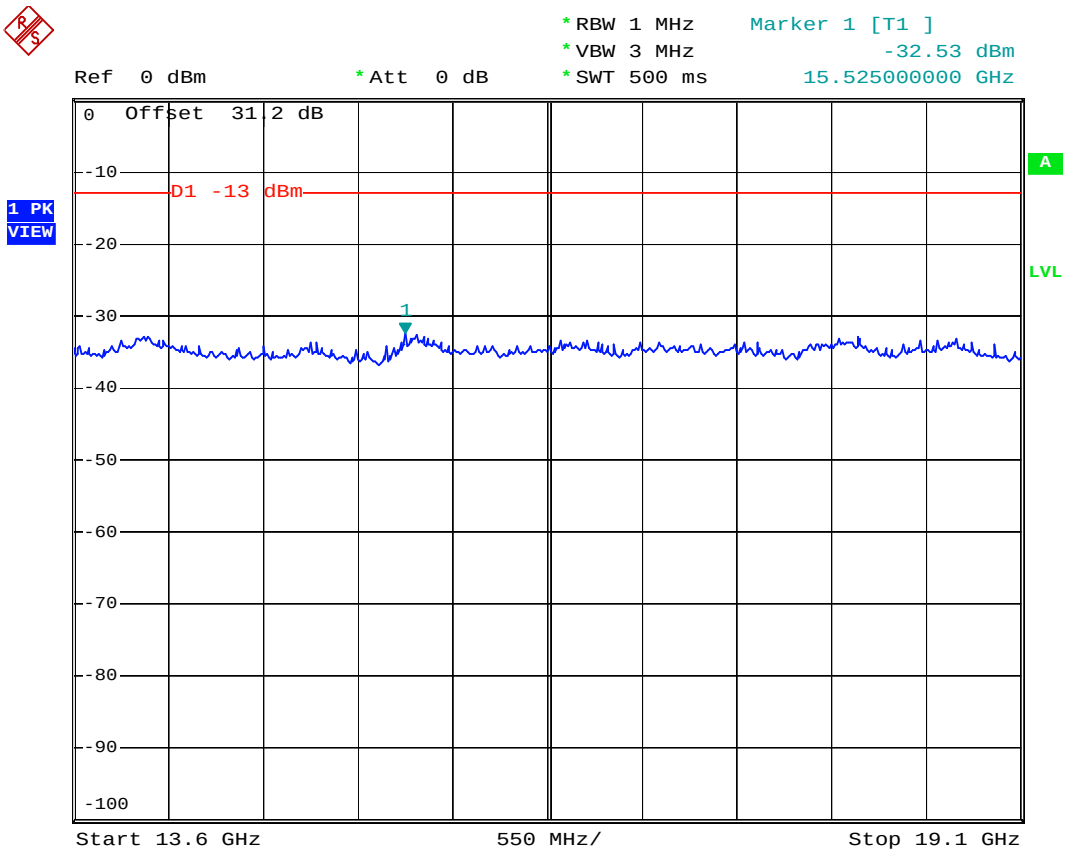
Date: 22.APR.2007 11:24:03

- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 7G-13.6G



Date: 22.APR.2007 11:26:07

- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 13.6G-19.1G



Date: 22.APR.2007 11:35:26

4.6 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to ANSI/TIA/EIA-603-C.

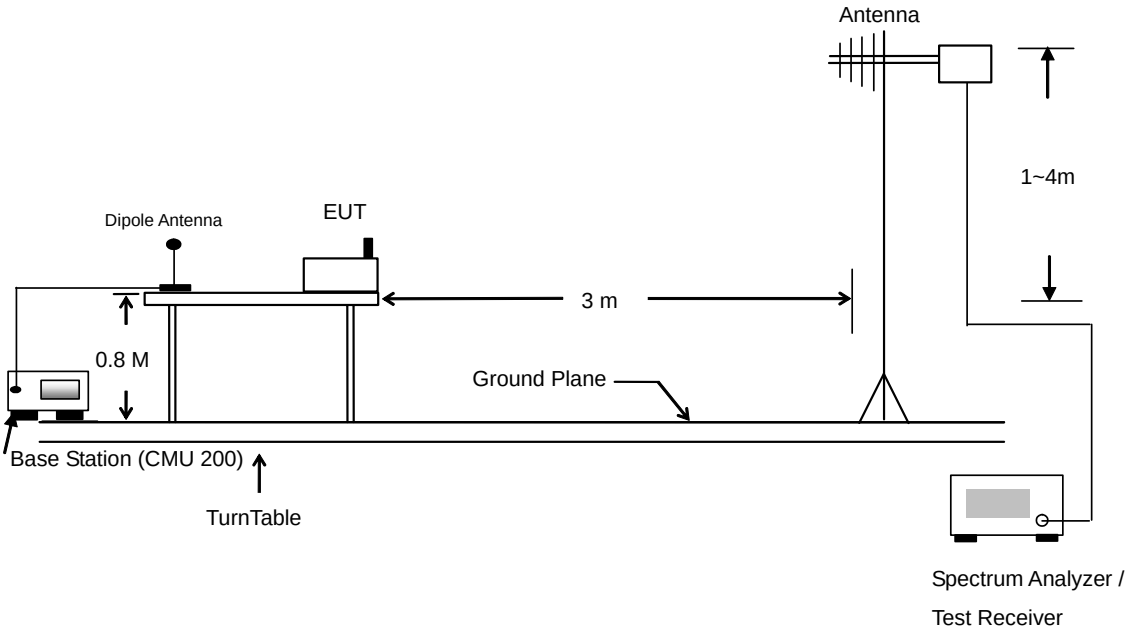
4.6.1 Measurement Instruments

As described in chapter 5 of this test report.

4.6.2 Test Procedure

1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
2. The EUT was set 3 meters from the receiving antenna which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to reach the maximum spurious emission for both horizontal and vertical polarizations.
5. Taking the record of maximum spurious emission.
6. A Horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the recored of output power at antenna port.
9. Repeat step 7 to step 8 for another polariztion.
10. Emission level (dBm) = output power + substituion Gain.

4.6.3 Test Setup Layout



4.6.4 Test Result

- Test Mode : Mode 1

GSM850 (GSM) Radiated Spurious ERP							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
32.430	-53.680	-13	-40.68	**31.890**	**-46.710**	**-13**	**-33.71**
37.830	-62.580	-13	-49.58	81.030	-65.810	-13	-52.81
81.840	-67.340	-13	-54.34	145.290	-50.820	-13	-37.82
995.800	-59.680	-13	-46.68	675.900	-65.450	-13	-52.45
1674.000	-53.950	-13	-40.95	1674.000	-61.580	-13	-48.58
2508.000	-60.190	-13	-47.19				

- Test Mode : Mode 2

GSM850 (EDGE) Radiated Spurious ERP							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
30.000	-53.930	-13	-40.93	**32.430**	**-45.730**	**-13**	**-32.73**
38.640	-62.520	-13	-49.52	82.380	-66.020	-13	-53.02
48.630	-70.260	-13	-57.26	91.830	-61.940	-13	-48.94
995.800	-57.110	-13	-44.11	995.800	-61.210	-13	-48.21
1674.000	-53.170	-13	-40.17	1674.000	-58.290	-13	-45.29
2508.000	-60.280	-13	-47.28	2508.000	-53.280	-13	-40.28

- Test Mode : Mode 3

PCS1900 (GSM) Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
33.780	-61.580	-13	-48.58	33.780	-54.510	-13	-41.51
81.030	-68.730	-13	-55.73	68.340	-57.410	-13	-44.41
102.630	-56.970	-13	-43.97	81.030	-67.980	-13	-54.98
490.400	-66.010	-13	-53.01	787.900	-62.890	-13	-49.89
789.300	-66.010	-13	-53.01	883.800	-62.670	-13	-49.67
980.400	-64.170	-13	-51.17	976.900	-62.260	-13	-49.26
1718.000	-49.860	-13	-36.86	1718.000	-54.060	-13	-41.06
5638.000	-52.450	-13	-39.45	3758.000	-50.270	-13	-37.27
7518.000	**-41.150**	**-13**	**-28.15**	5638.000	-51.350	-13	-38.35
				7520.000	-41.450	-13	-28.45

- Test Mode : Mode 4

PCS1900 (EDGE) Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
33.780	-57.420	-13	-44.42	33.780	-54.640	-13	-41.64
92.640	-58.710	-13	-45.71	75.630	-57.550	-13	-44.55
199.830	-61.890	-13	-48.89	105.330	-56.140	-13	-43.14
789.300	-66.160	-13	-53.16	717.900	-64.230	-13	-51.23
897.800	-65.370	-13	-52.37	792.800	-63.020	-13	-50.02
981.800	-64.180	-13	-51.18	859.300	-62.320	-13	-49.32
1718.000	-51.010	-13	-38.01	1014.000	-58.090	-13	-45.09
7518.000	-44.650	-13	-31.65	1718.000	-54.810	-13	-41.81
				5638.000	-52.700	-13	-39.70
				7518.000	**-40.920**	**-13**	**-27.92**

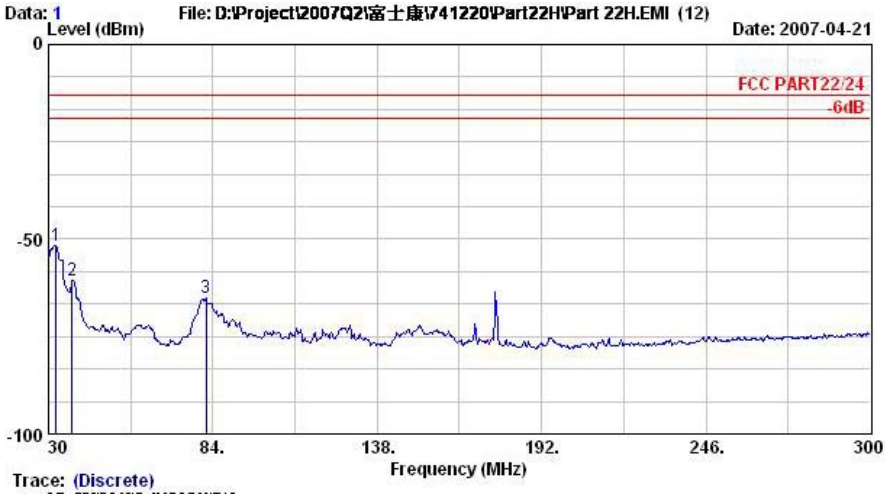
- Test Mode : Mode 5

GSM850 (GSM) with Bluetooth Co-location Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
30.000	-50.690	-13	-37.69	31.890	-45.490	-13	-32.49
46.740	-68.530	-13	-55.53	106.140	-60.690	-13	-47.69
135.030	-62.300	-13	-49.30	145.830	-50.600	-13	-37.60
995.800	-59.880	-13	-46.88	675.900	-63.880	-13	-50.88
1074.000	-49.810	-13	-36.81	1674.000	-61.650	-13	-48.65
1674.000	-55.490	-13	-42.49	**4858.000**	**-38.260**	**-13**	**-25.26**
4828.000	-44.370	-13	-31.37	4944.000	-46.250	-13	-33.25
4908.000	-44.480	-13	-31.48	7528.000	-48.070	-13	-35.07

4.6.5 Test Data

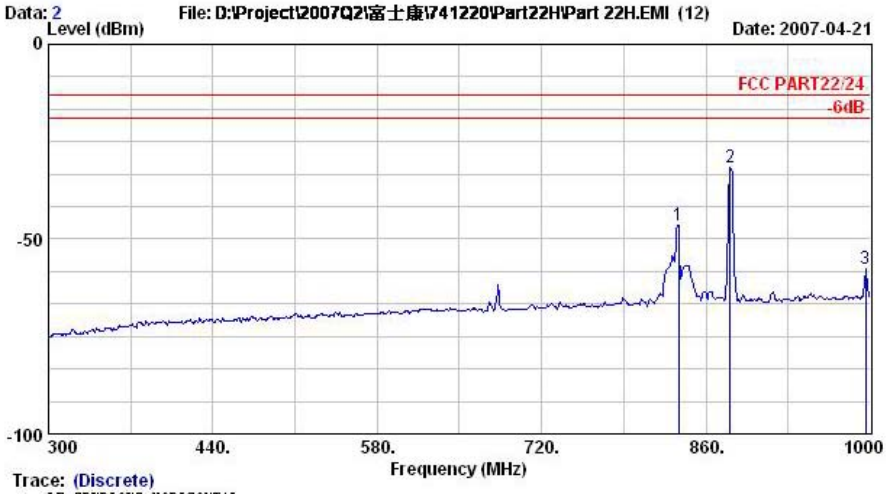
4.6.5.1 Mode 1

Horizontal Polarization



Condition : LF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link, Ch189 + Adaptor + Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	32.43	-51.53	-38.53	-13.00	-50.06	-1.47	Peak
2	37.83	-60.43	-47.43	-13.00	-55.92	-4.51	Peak
3	81.84	-65.19	-52.19	-13.00	-52.88	-12.31	Peak

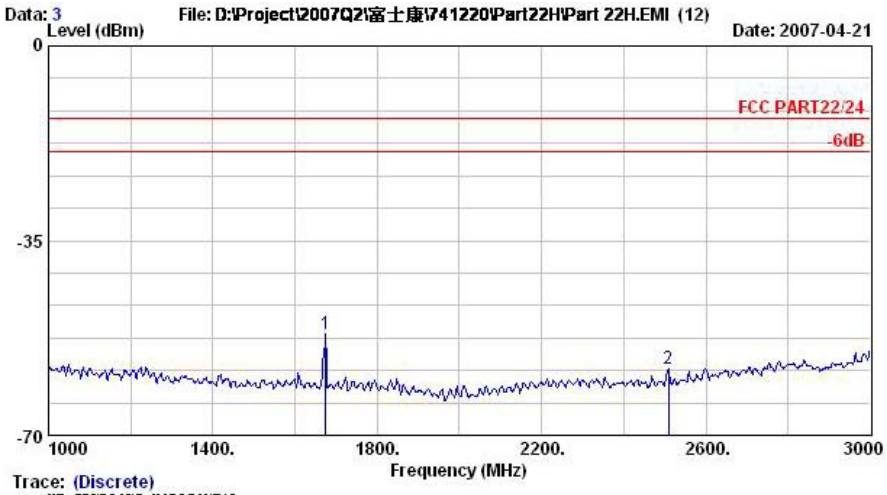


Condition : LF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link, Ch189 + Adaptor + Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	836.90	-46.31			-44.98	-1.33	Peak
2 @	880.30	-31.50			-30.59	-0.91	Peak
3	995.80	-57.53	-44.53	-13.00	-57.73	0.20	Peak

Remark:

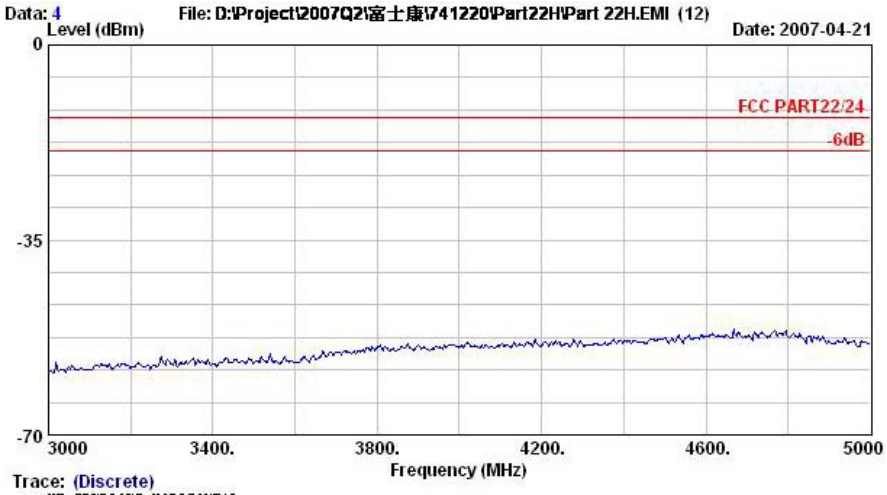
1. #1: MS Signal
2. #2: BS Signal



Trace: (Discrete)

Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link, Ch189 + Adaptor + Earphone
Plane : E2

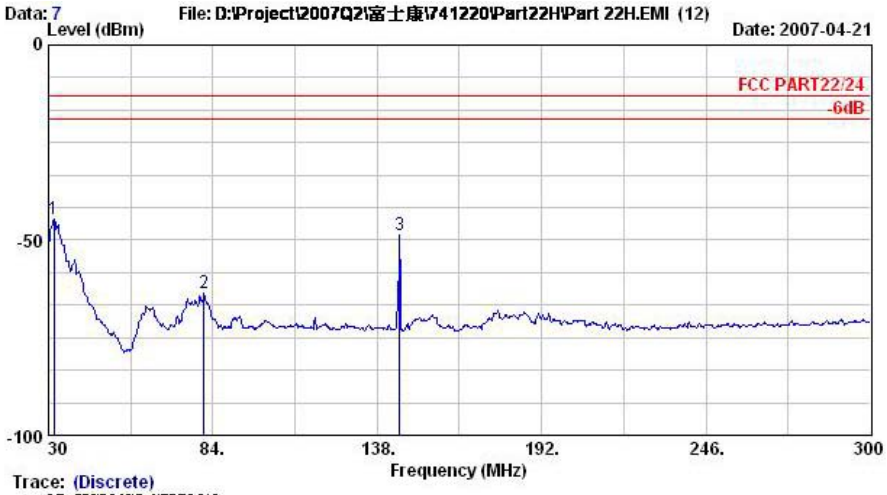
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	1674.00	-51.80	-38.80	-13.00	-52.02	0.22	Peak
2	2508.00	-58.04	-45.04	-13.00	-59.24	1.20	Peak



Trace: (Discrete)

Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link, Ch189 + Adaptor + Earphone
Plane : E2

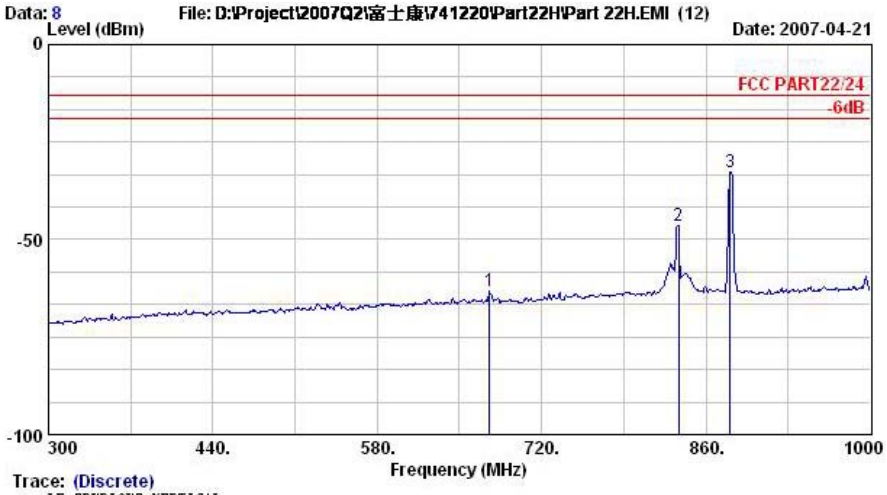
Vertical Polarization



Trace: (Discrete)

Condition : LF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link, Ch189 + Adaptor + Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	31.89	-44.56	-31.56	-13.00	-34.94	-9.62	Peak
2	81.03	-63.66	-50.66	-13.00	-53.31	-10.35	Peak
3 @	145.29	-48.67	-35.67	-13.00	-40.57	-8.10	Peak

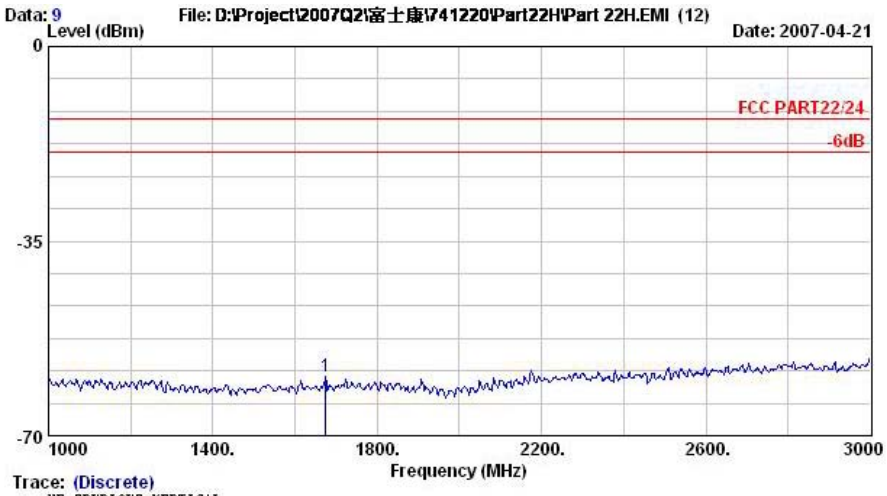


Trace: (Discrete)

Condition : LF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link, Ch189 + Adaptor + Earphone
Plane : E2

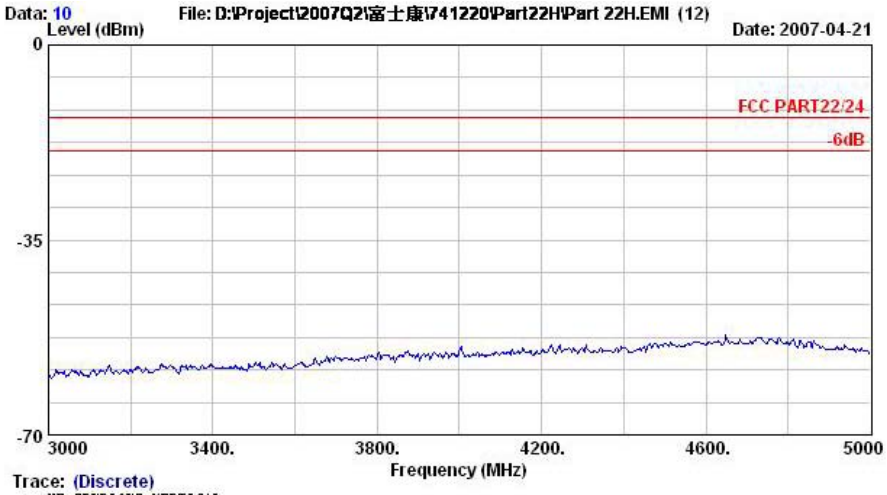
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	675.90	-63.30	-50.30	-13.00	-62.50	-0.79	Peak
2 @	836.90	-46.34			-47.70	1.36	Peak
3 @	880.30	-32.58			-34.29	1.71	Peak

Remark:
1. #2: MS Signal
2. #3: BS Signal



Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link, Ch189 + Adaptor + Earphone
Plane : E2

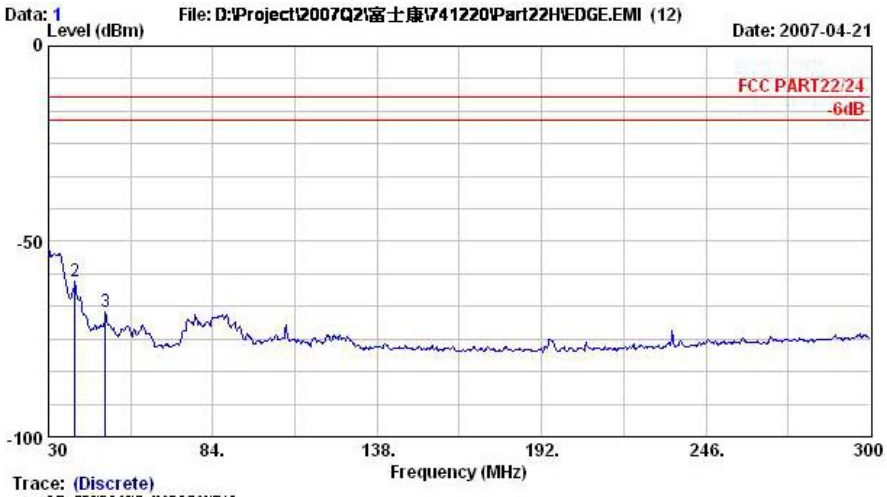
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	1674.00	-59.43	-46.43	-13.00	-58.95	-0.48	Peak



Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link, Ch189 + Adaptor + Earphone
Plane : E2

Remark：There is no more obvious emission except the listings above.

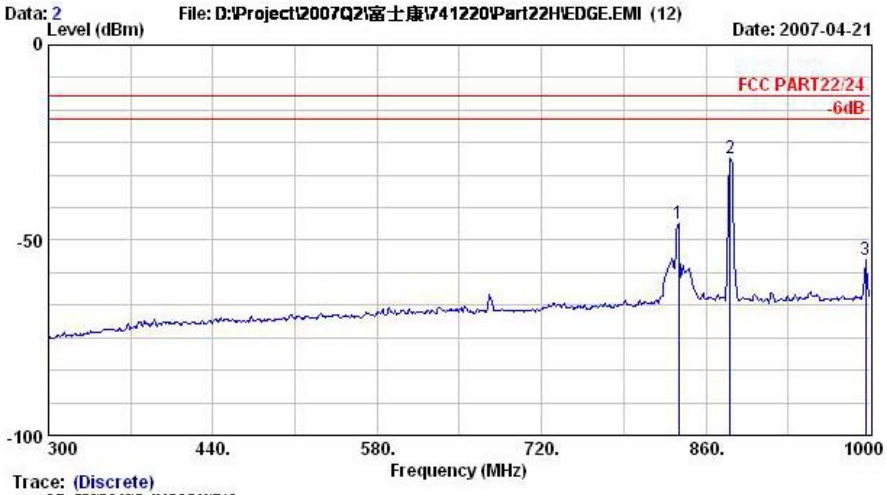
4.6.5.2 Mode 2
Horizontal Polarization



Trace: (Discrete)

Condition : LF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link+ Adaptor+ Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	30.00	-51.78	-38.78	-13.00	-52.14	0.36	Peak
2	38.64	-60.37	-47.37	-13.00	-55.25	-5.12	Peak
3	48.63	-68.11	-55.11	-13.00	-56.90	-11.21	Peak

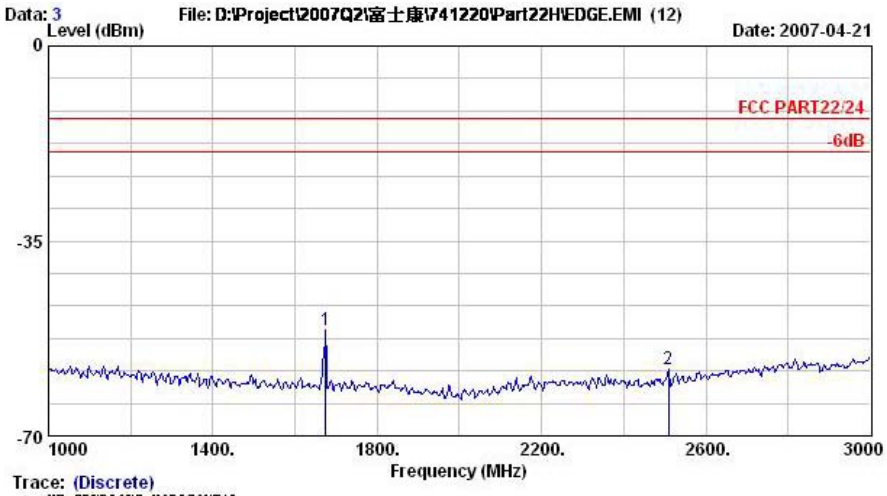


Trace: (Discrete)

Condition : LF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link+ Adaptor+ Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	836.90	-45.78			-44.45	-1.33	Peak
2 @	880.30	-29.01			-28.10	-0.91	Peak
3	995.80	-54.96	-41.96	-13.00	-55.16	0.20	Peak

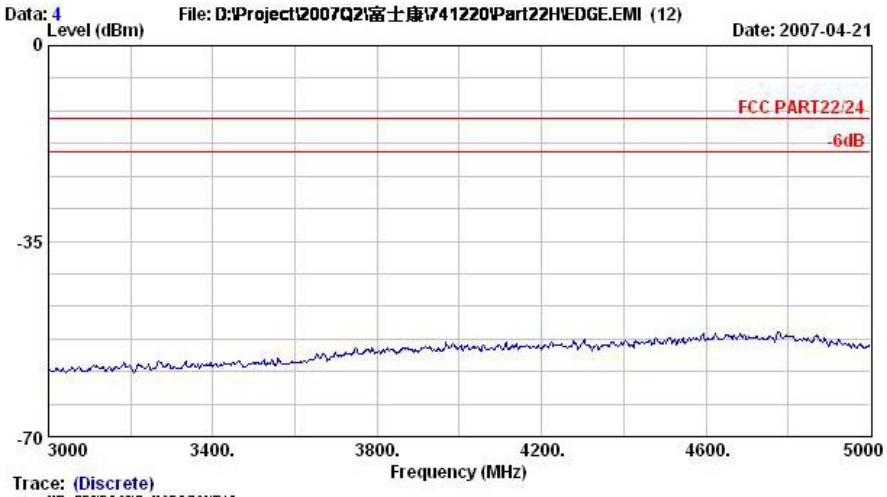
Remark:
1. #1: MS Signal
2. #2: BS Signal



Trace: (Discrete)

Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link+ Adaptor+ Earphone
Plane : E2

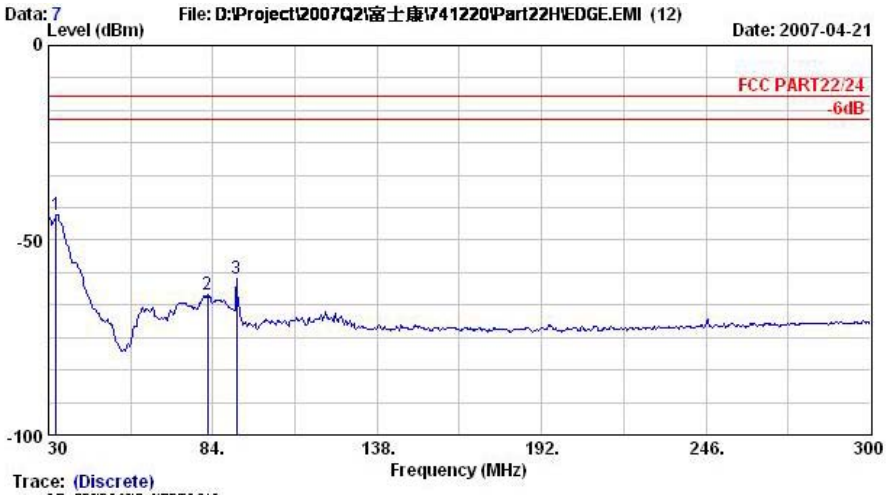
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1674.00	-51.02	-38.02	-13.00	-51.25	0.22	Peak
2	2508.00	-58.13	-45.13	-13.00	-59.33	1.20	Peak



Trace: (Discrete)

Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link+ Adaptor+ Earphone
Plane : E2

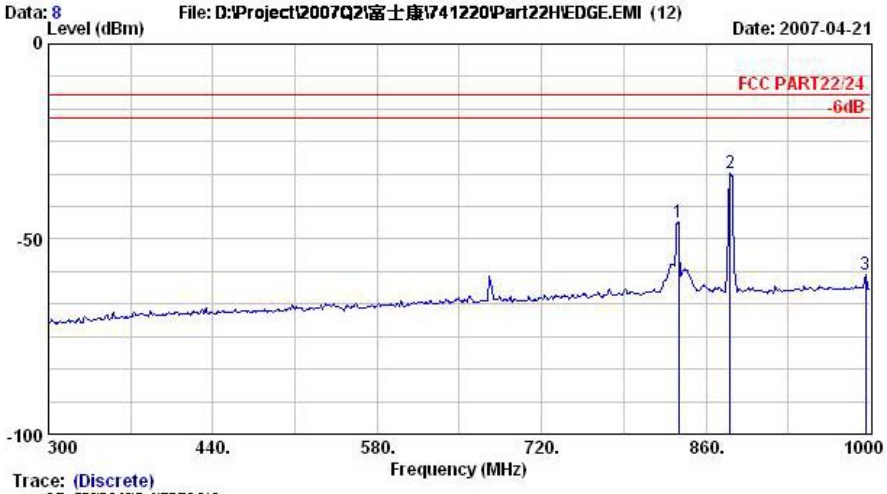
Vertical Polarization



Trace: (Discrete)

Condition : LF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link+ Adaptor+ Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	32.43	-43.58	-30.58	-13.00	-33.69	-9.89	Peak
2	82.38	-63.87	-50.87	-13.00	-53.67	-10.21	Peak
3	91.83	-59.79	-46.79	-13.00	-50.98	-8.81	Peak

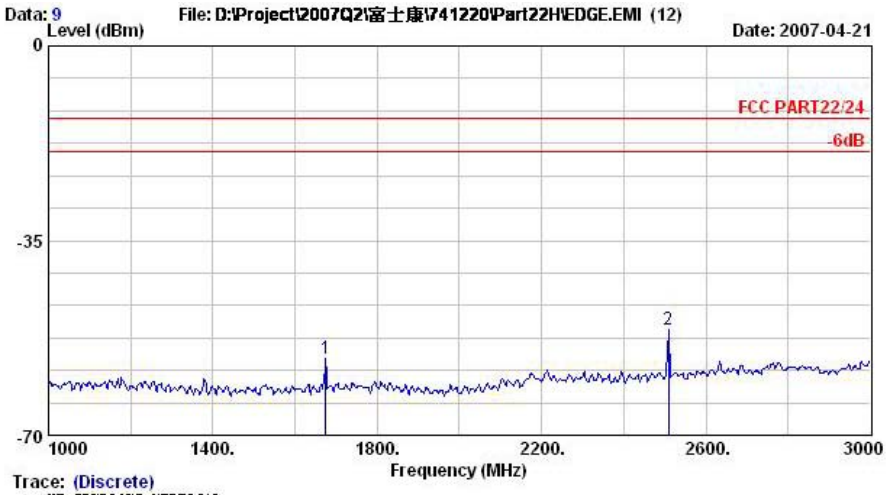


Trace: (Discrete)

Condition : LF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link+ Adaptor+ Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	836.90	-45.58			-46.94	1.36	Peak
2 @	880.30	-33.11			-34.82	1.71	Peak
3	995.80	-59.06	-46.06	-13.00	-61.69	2.63	Peak

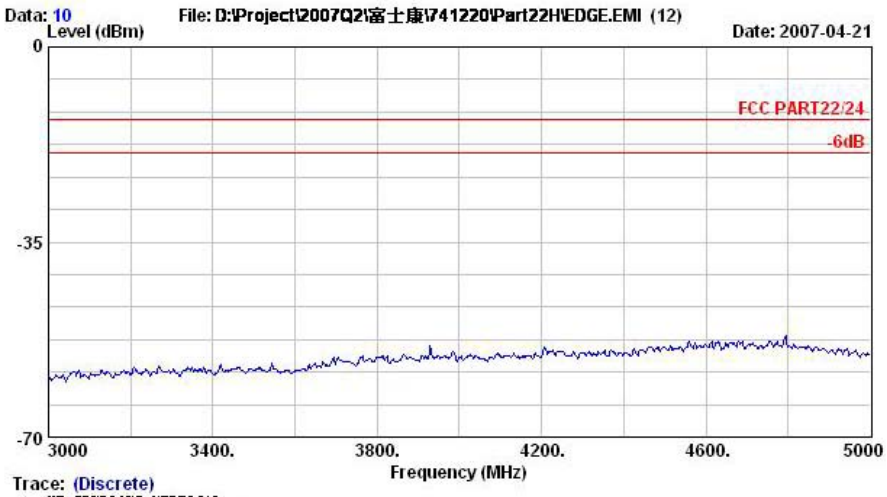
Remark:
1. #1: MS Signal
2. #2: BS Signal



Trace: (Discrete)

Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link+ Adaptor+ Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	1674.00	-56.14	-43.14	-13.00	-55.66	-0.48	Peak
2 @	2508.00	-51.13	-38.13	-13.00	-53.40	2.27	Peak

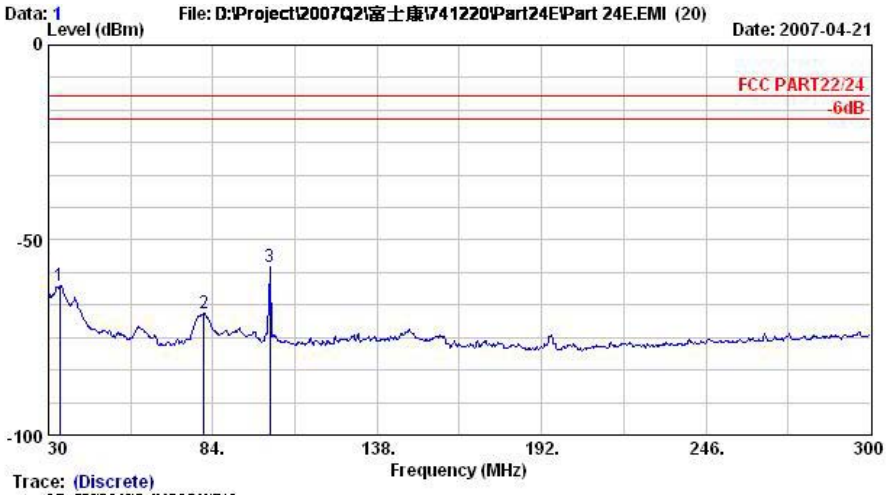


Trace: (Discrete)

Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link+ Adaptor+ Earphone
Plane : E2

Remark：There is no more obvious emission except the listings above.

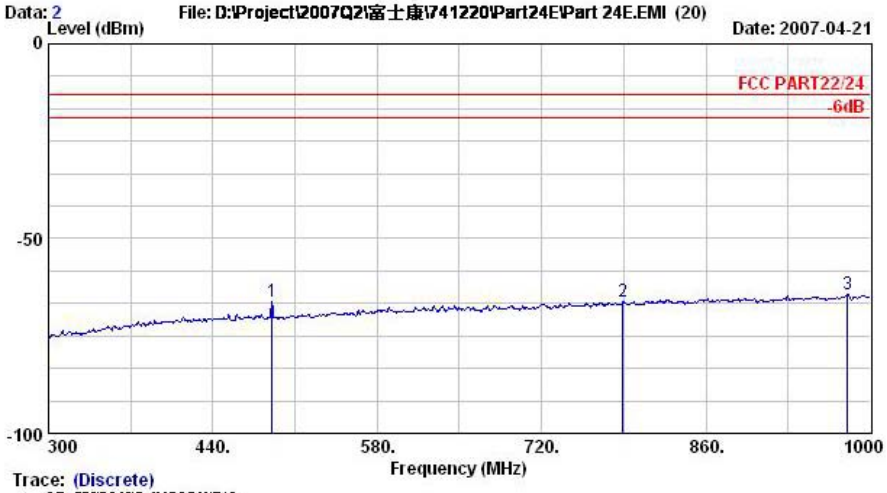
4.6.5.3 Mode 3
Horizontal Polarization



Trace: (Discrete)

Condition : LF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2

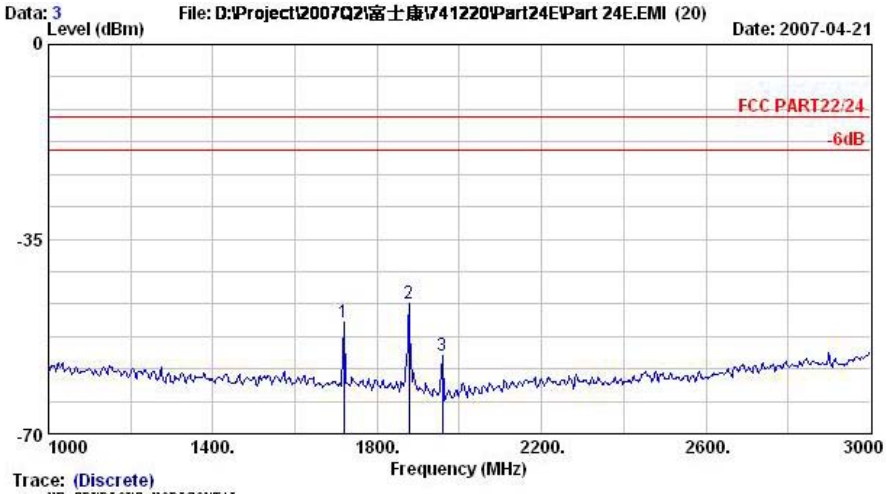
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	33.78	-61.58	-48.58	-13.00	-59.50	-2.08	Peak
2	81.03	-68.73	-55.73	-13.00	-56.42	-12.31	Peak
3 @	102.63	-56.97	-43.97	-13.00	-44.70	-12.27	Peak



Trace: (Discrete)

Condition : LF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	490.40	-66.01	-53.01	-13.00	-60.77	-5.25	Peak
2	789.30	-66.01	-53.01	-13.00	-64.21	-1.80	Peak
3	980.40	-64.17	-51.17	-13.00	-64.22	0.05	Peak

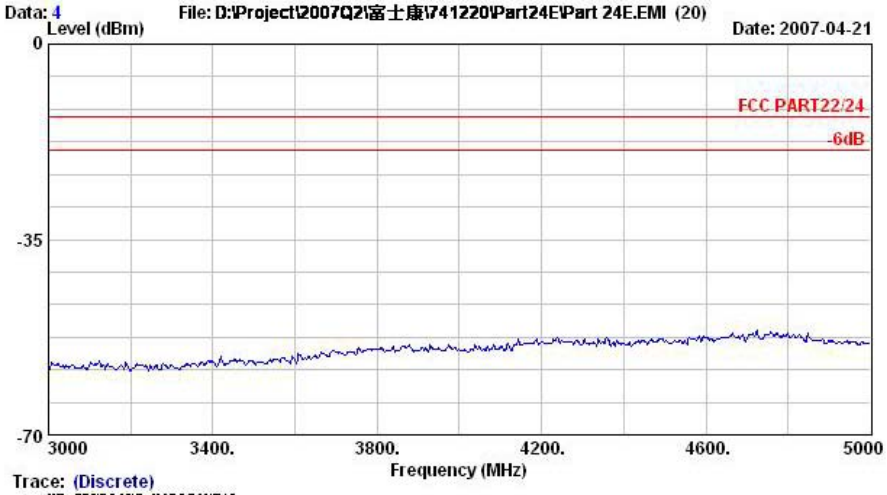


Trace: (Discrete)

Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2

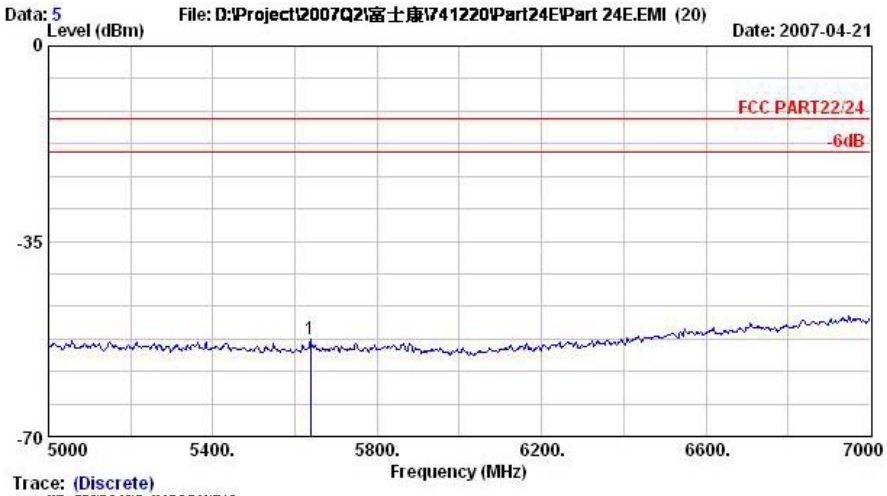
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1718.00	-49.86	-36.86	-13.00	-49.94	0.08	Peak
2 @	1878.00	-46.53			-46.02	-0.51	Peak
3 @	1958.00	-55.87			-54.76	-1.11	Peak

Remark:
1. #2: MS Signal
2. #3: BS Signal



Trace: (Discrete)

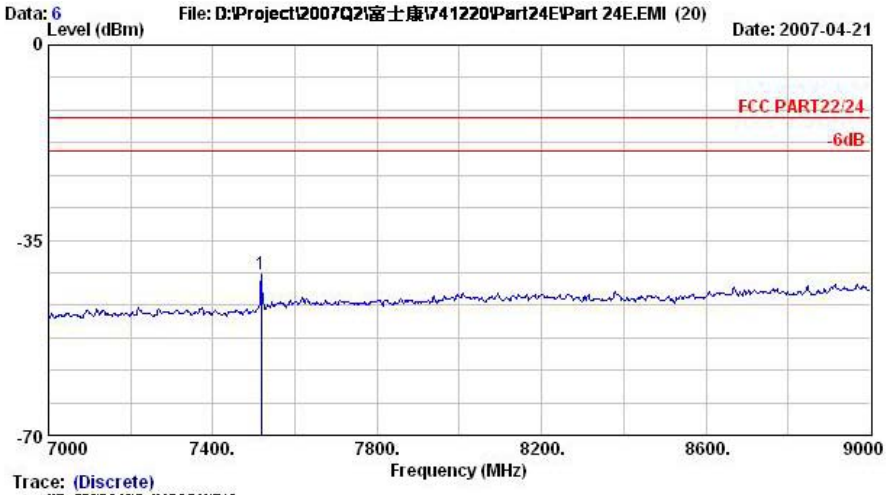
Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2



Trace: (Discrete)

Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2

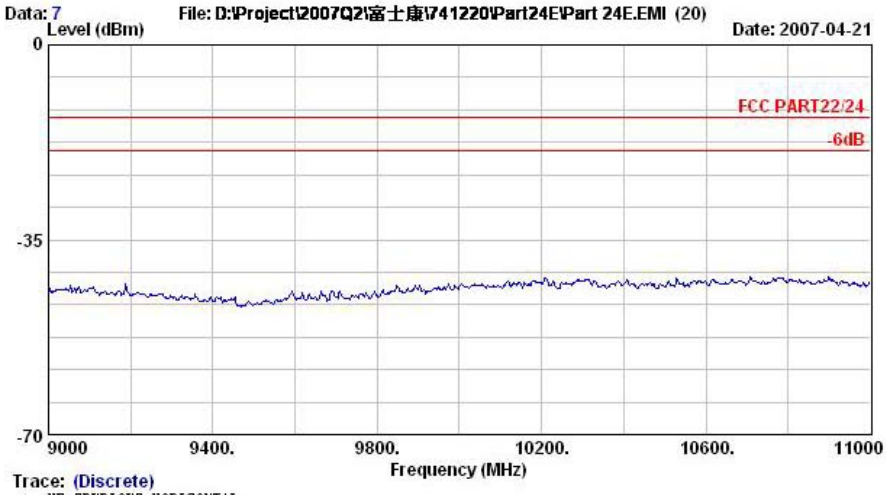
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	5638.00	-52.45	-39.45	-13.00	-62.42	9.97	Peak



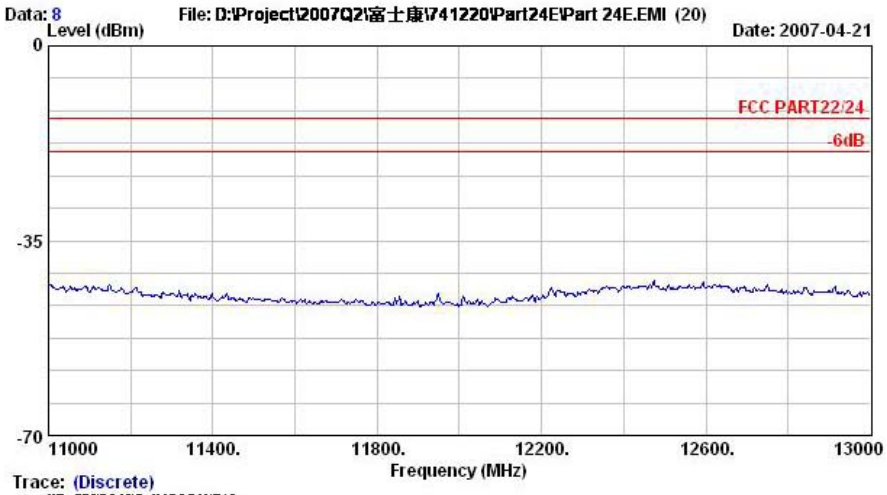
Trace: (Discrete)

Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	7518.00	-41.15	-28.15	-13.00	-56.96	15.80	Peak

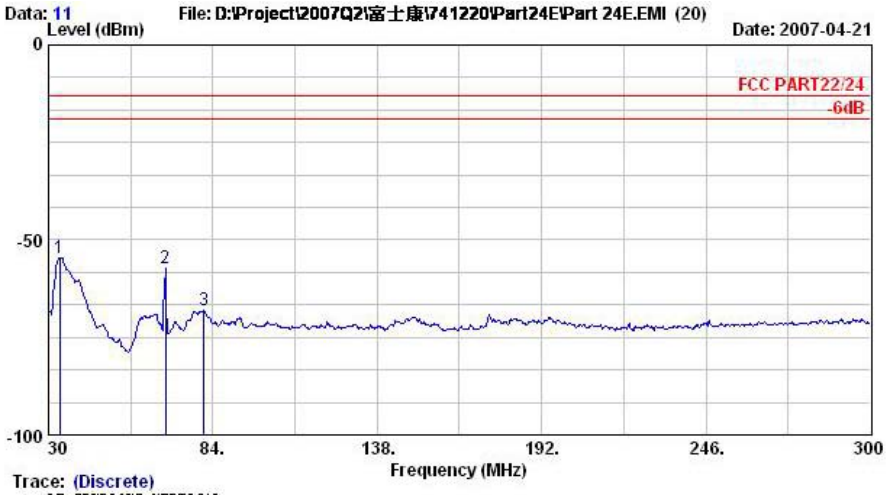


Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2



Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2

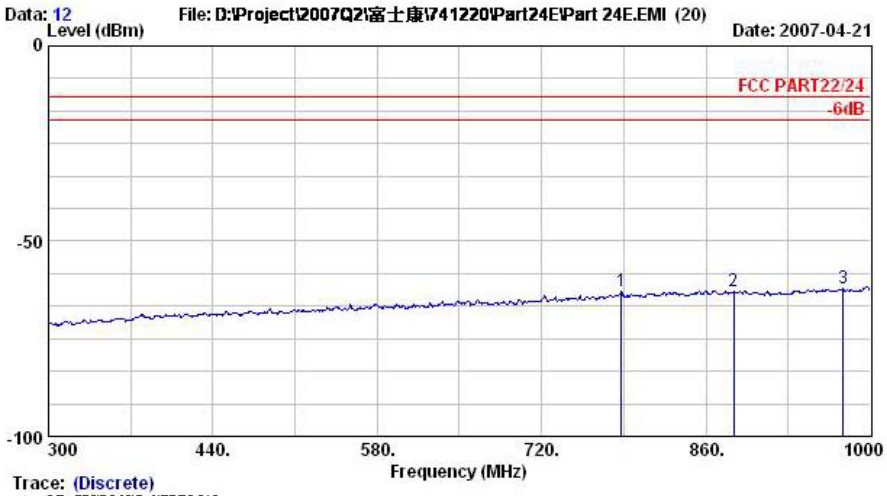
Vertical Polarization



Trace: (Discrete)

Condition : LF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2

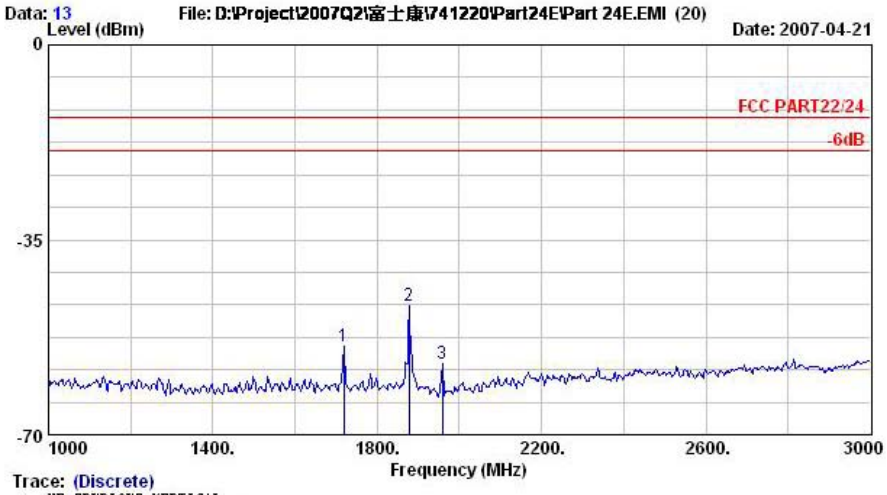
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	33.78	-54.51	-41.51	-13.00	-44.34	-10.17	Peak
2	68.34	-57.41	-44.41	-13.00	-45.25	-12.16	Peak
3	81.03	-67.98	-54.98	-13.00	-57.64	-10.35	Peak



Trace: (Discrete)

Condition : LF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	787.90	-62.89	-49.89	-13.00	-63.77	0.88	Peak
2	883.80	-62.67	-49.67	-13.00	-64.40	1.73	Peak
3	976.90	-62.26	-49.26	-13.00	-64.74	2.47	Peak

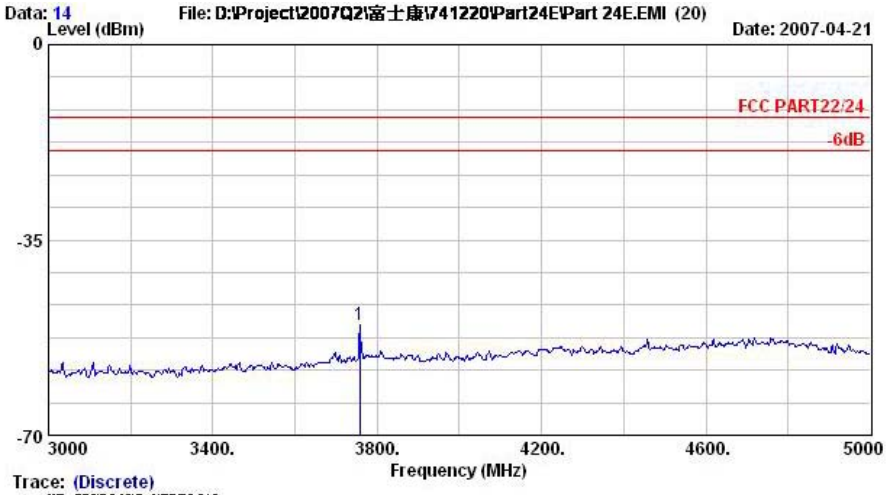


Trace: (Discrete)

Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1718.00	-54.06	-41.06	-13.00	-53.64	-0.42	Peak
2 @	1878.00	-46.80			-46.39	-0.40	Peak
3	1958.00	-57.34			-56.74	-0.60	Peak

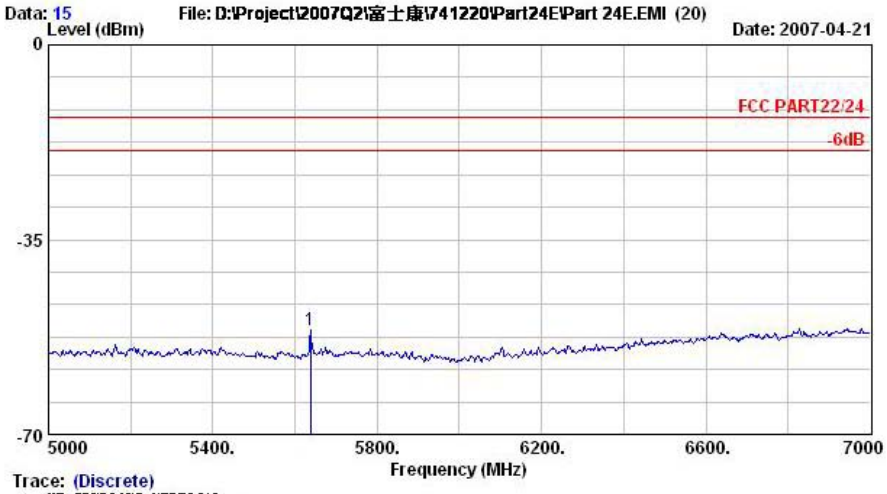
Remark:
1. #2: MS Signal
2. #3: BS Signal



Trace: (Discrete)

Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2

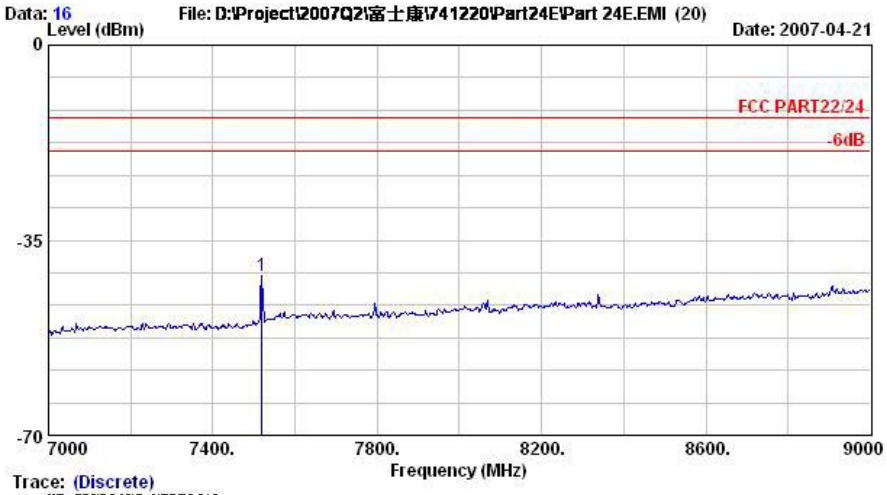
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	3758.00	-50.27	-37.27	-13.00	-56.90	6.64	Peak



Trace: (Discrete)

Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2

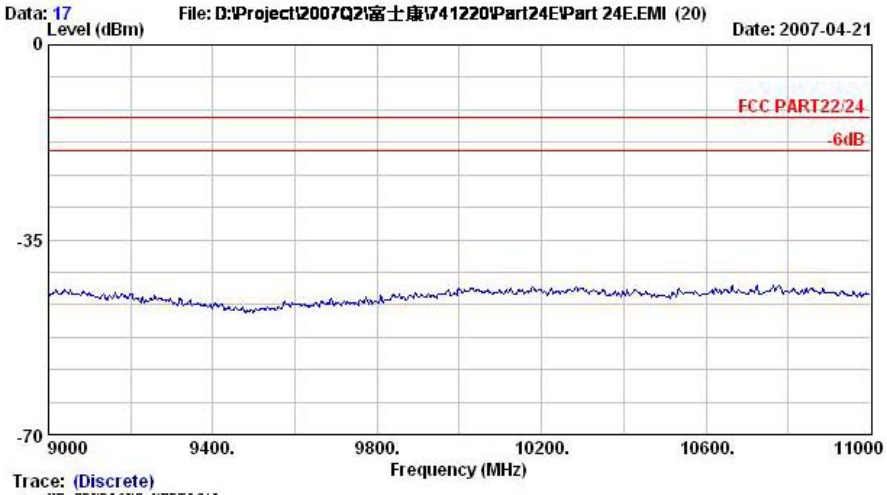
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	5638.00	-51.35	-38.35	-13.00	-60.01	8.65	Peak



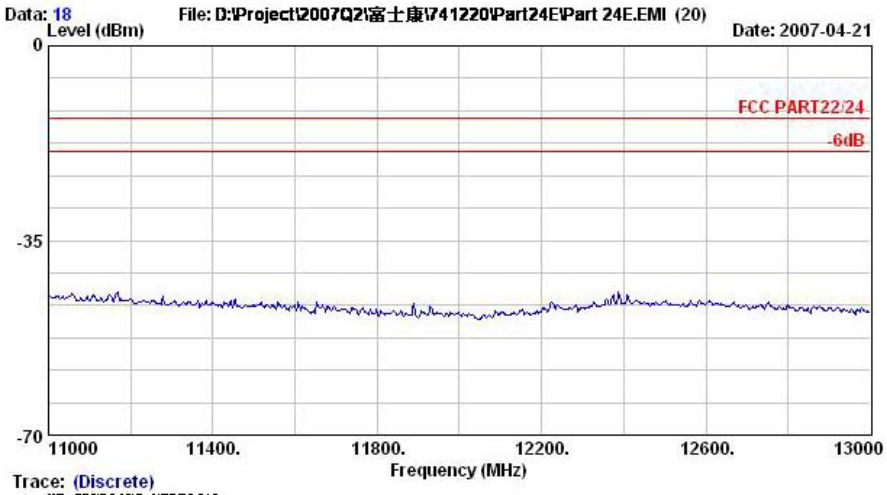
Trace: (Discrete)

Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	7520.00	-41.45	-28.45	-13.00	-54.81	13.37	Peak



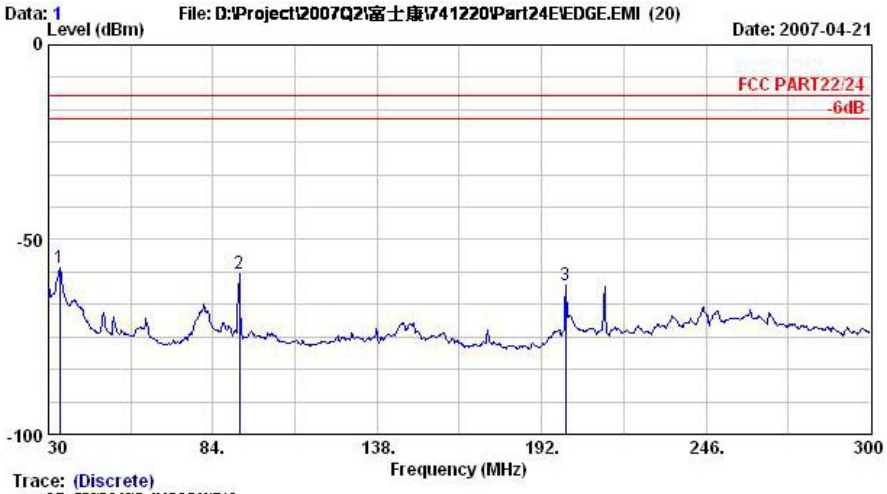
Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2



Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : PCS 1900 Link, Ch661 + Adaptor +Earphone
Plane : E2

Remark：There is no more obvious emission except the listings above.

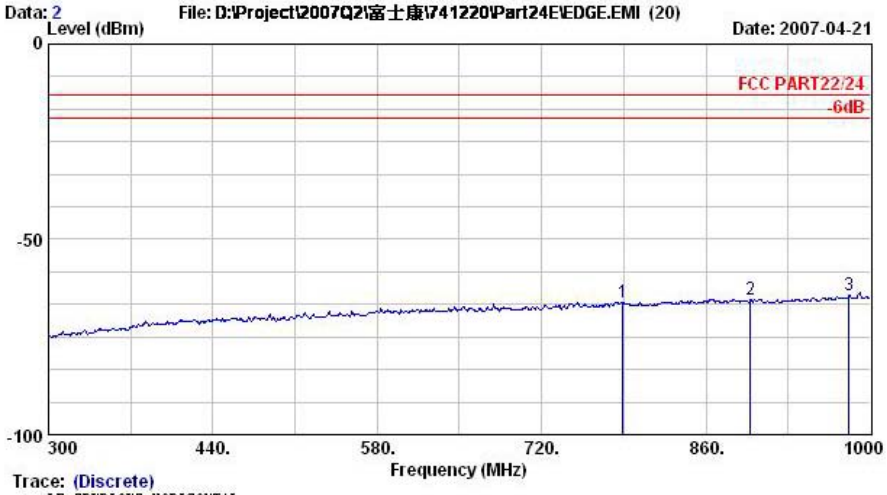
4.6.5.4 Mode 4
Horizontal Polarization



Trace: (Discrete)

Condition : LF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link + Adaptor + Earphone
Plane : E2

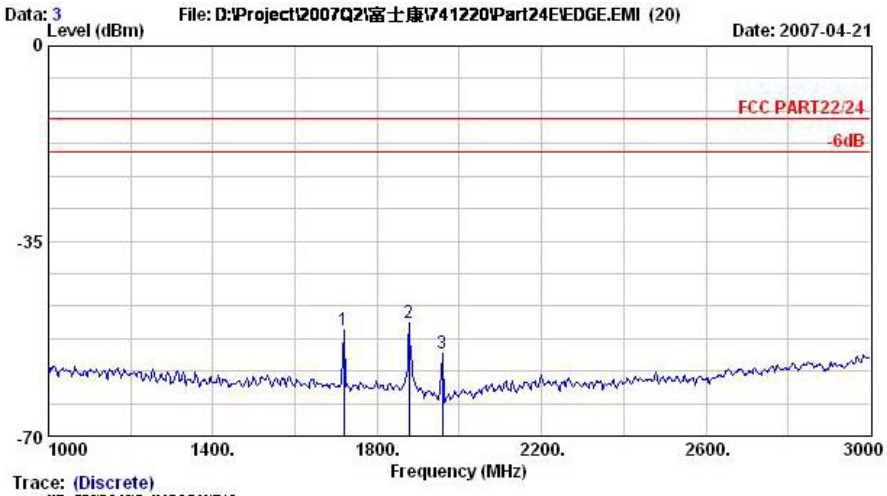
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	33.78	-57.42	-44.42	-13.00	-55.34	-2.08	Peak
2	92.64	-58.71	-45.71	-13.00	-46.44	-12.27	Peak
3	199.83	-61.89	-48.89	-13.00	-48.50	-13.39	Peak



Trace: (Discrete)

Condition : LF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link + Adaptor + Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	789.30	-66.16	-53.16	-13.00	-64.36	-1.80	Peak
2	897.80	-65.37	-52.37	-13.00	-64.63	-0.74	Peak
3	981.80	-64.18	-51.18	-13.00	-64.25	0.06	Peak

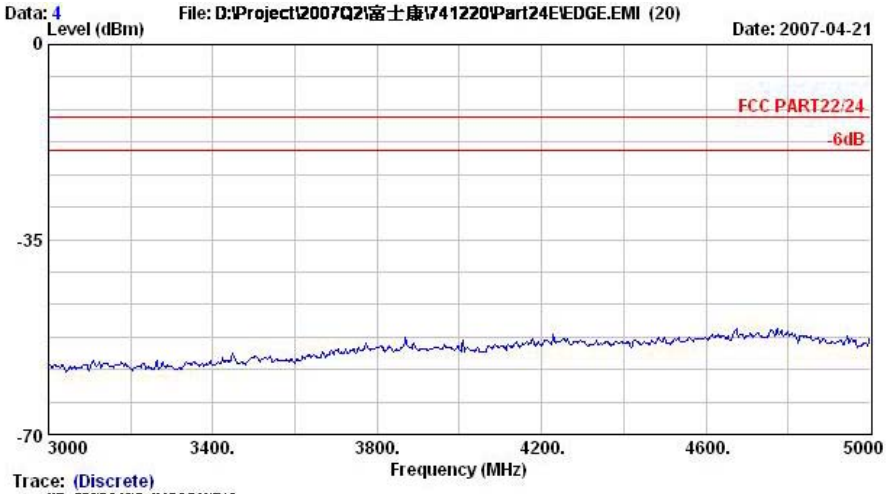


Trace: (Discrete)

Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link + Adaptor + Earphone
Plane : E2

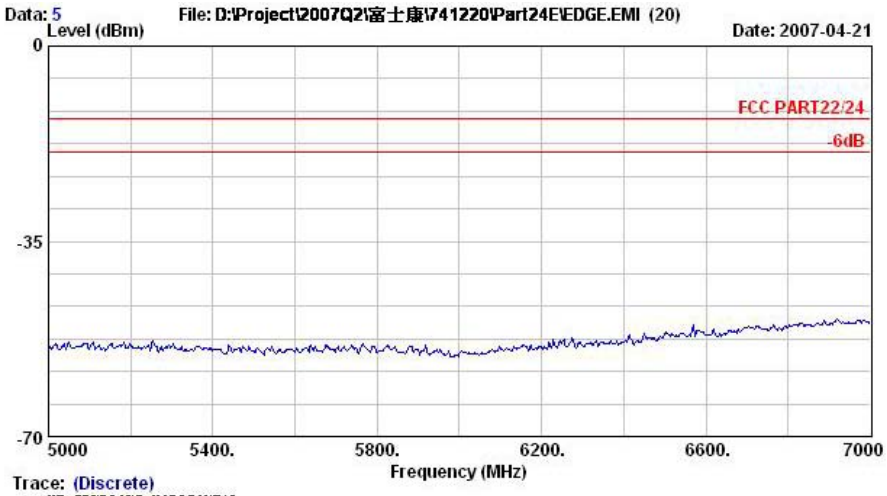
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1718.00	-51.01	-38.01	-13.00	-51.09	0.08	Peak
2 @	1878.00	-49.60			-49.09	-0.51	Peak
3 @	1958.00	-55.20			-54.09	-1.11	Peak

Remark:
1. #2: MS Signal
2. #3: BS Signal



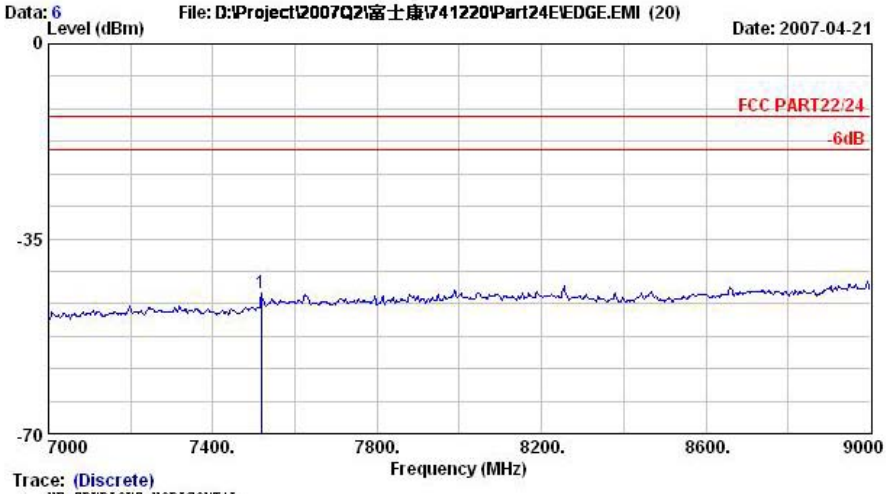
Trace: (Discrete)

Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link + Adaptor + Earphone
Plane : E2



Trace: (Discrete)

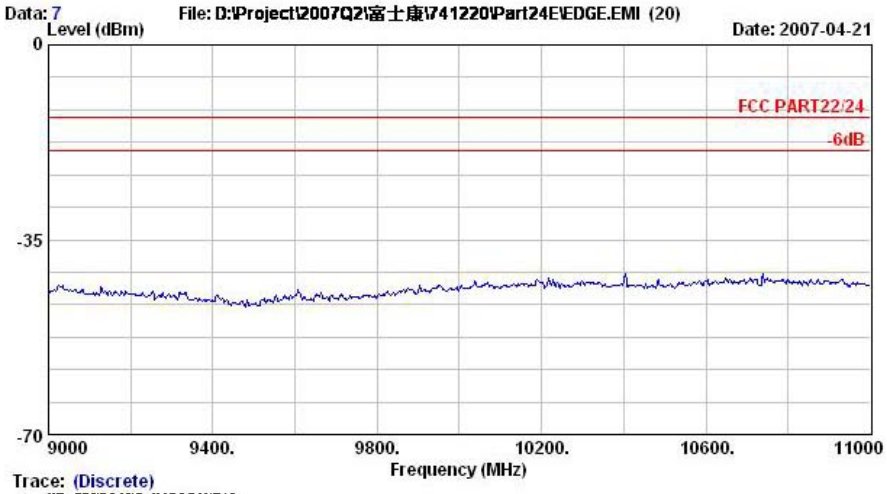
Condition	:	HF-SPURIOUS HORIZONTAL
EUT	:	GSM/GPRS/EDGE Mobile Phone
Power	:	120Vac/60Hz
Model	:	FG 741220
Memo	:	EDGE Link + Adaptor + Earphone
Plane	:	E2



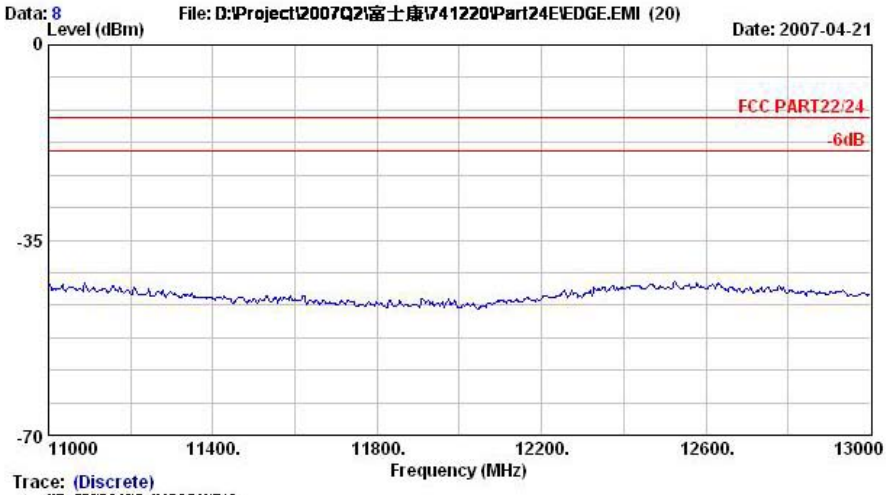
Trace: (Discrete)

Condition	:	HF-SPURIOUS HORIZONTAL
EUT	:	GSM/GPRS/EDGE Mobile Phone
Power	:	120Vac/60Hz
Model	:	FG 741220
Memo	:	EDGE Link + Adaptor + Earphone
Plane	:	E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	7518.00	-44.65	-31.65	-13.00	-60.45	15.80	Peak

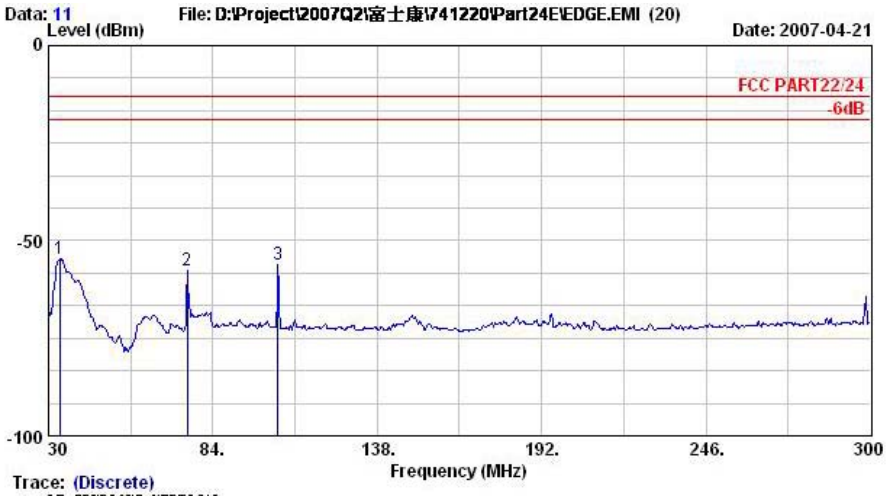


Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link + Adaptor + Earphone
Plane : E2



Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link + Adaptor + Earphone
Plane : E2

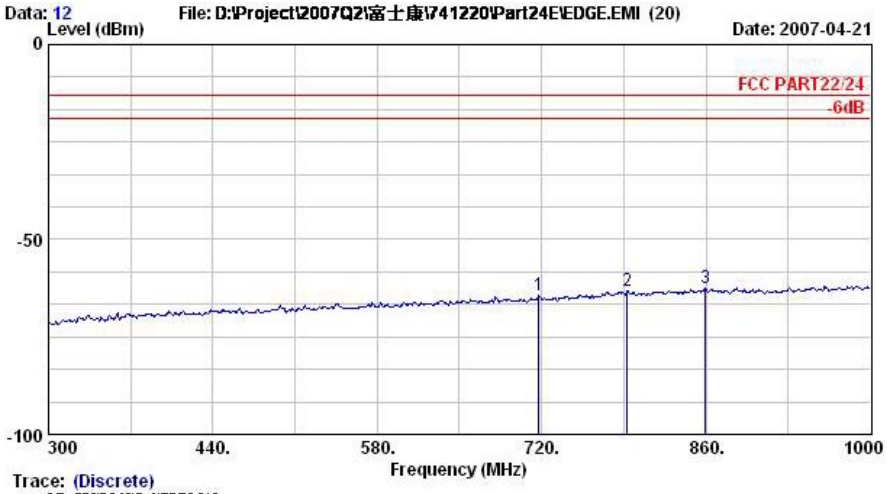
Vertical Polarization



Trace: (Discrete)

Condition : LF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link + Adaptor + Earphone
Plane : E2

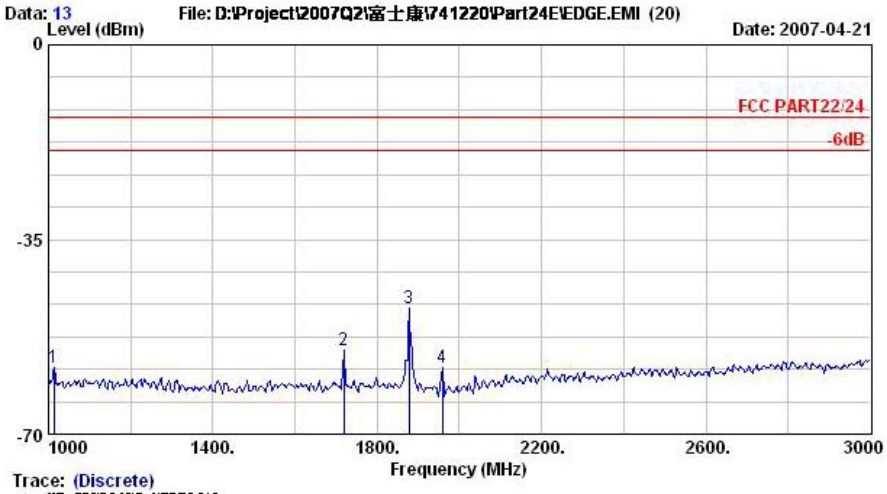
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	33.78	-54.64	-41.64	-13.00	-44.47	-10.17	Peak
2	75.63	-57.55	-44.55	-13.00	-46.36	-11.19	Peak
3 @	105.33	-56.14	-43.14	-13.00	-48.39	-7.74	Peak



Trace: (Discrete)

Condition : LF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link + Adaptor + Earphone
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	717.90	-64.23	-51.23	-13.00	-64.06	-0.17	Peak
2	792.80	-63.02	-50.02	-13.00	-63.98	0.95	Peak
3	859.30	-62.32	-49.32	-13.00	-63.86	1.54	Peak

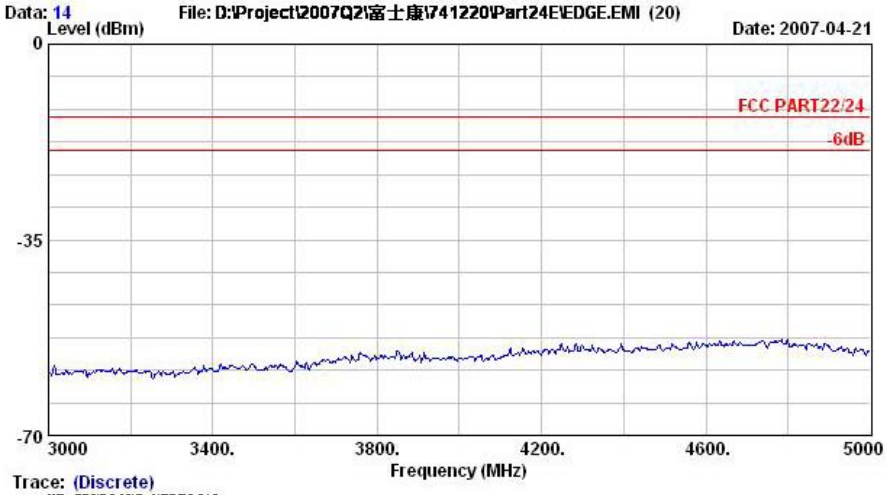


Trace: (Discrete)

Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link + Adaptor + Earphone
Plane : E2

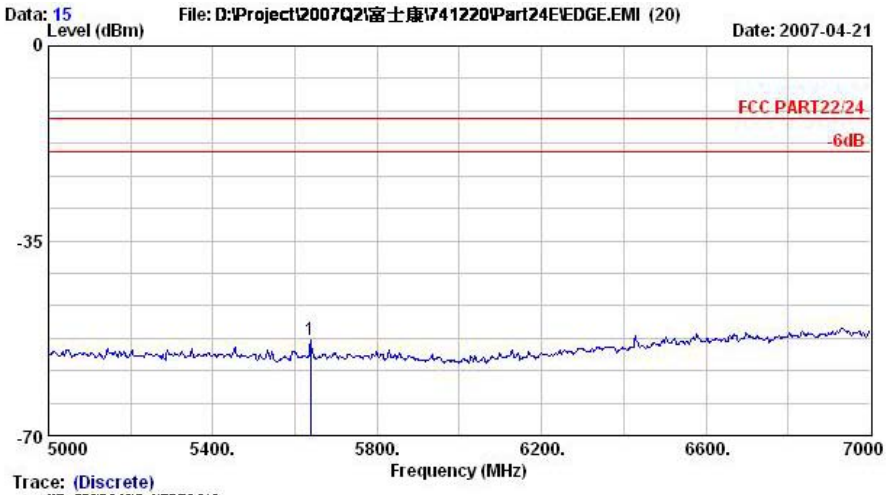
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	1014.00	-58.09	-45.09	-13.00	-57.36	-0.73	Peak
2 @	1718.00	-54.81	-41.81	-13.00	-54.39	-0.42	Peak
3 @	1878.00	-47.37			-46.97	-0.40	Peak
4	1958.00	-57.96			-57.36	-0.60	Peak

Remark:
1. #3: MS Signal
2. #4: BS Signal



Trace: (Discrete)

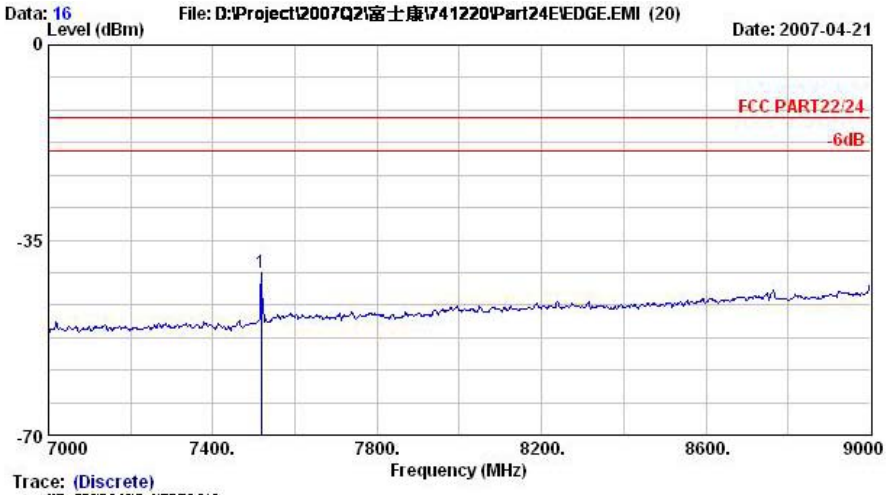
Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link + Adaptor + Earphone
Plane : E2



Trace: (Discrete)

Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link + Adaptor + Earphone
Plane : E2

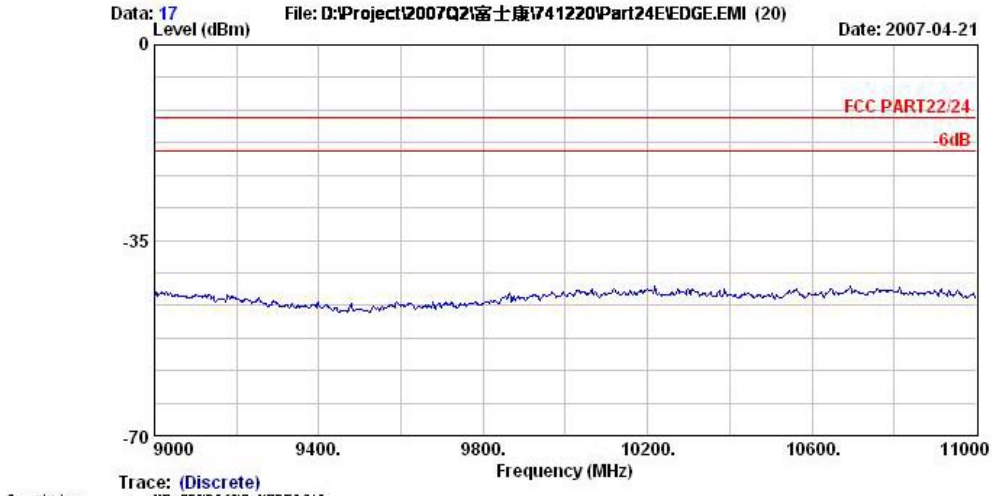
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	5638.00	-52.70	-39.70	-13.00	-61.36	8.65	Peak

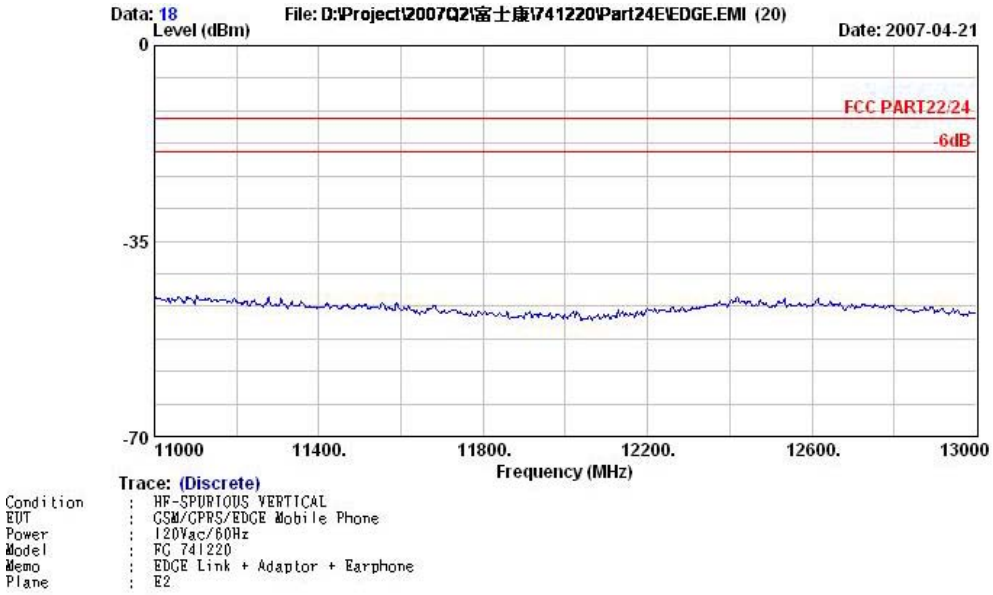


Trace: (Discrete)

Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : EDGE Link + Adaptor + Earphone
Plane : E2

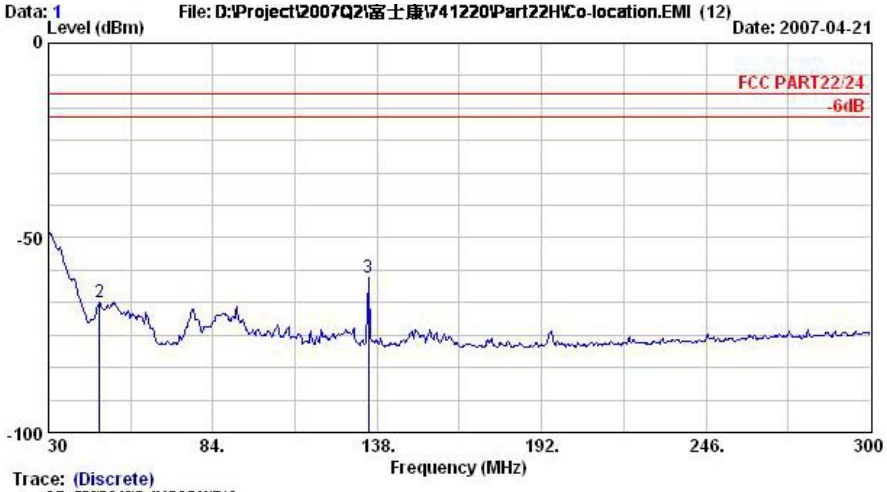
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	7518.00	-40.92	-27.92	-13.00	-54.29	13.37	Peak





Remark：There is no more obvious emission except the listings above.

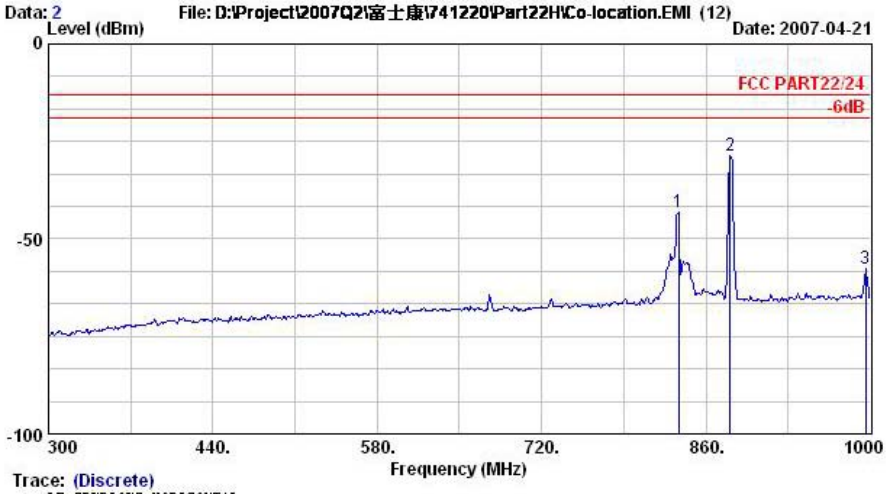
4.6.5.5 Mode 5
Horizontal Polarization



Trace: (Discrete)

Condition : LF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link; Ch189 + Adaptor + Earphone
Memo : + BT Link
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	dB	dB	cm	deg	
1	30.00	-48.54	-35.54	-13.00	-48.90	0.36	0.00	0.00	---	---	Peak
2	46.74	-66.38	-53.38	-13.00	-56.39	-9.99	0.00	0.00	---	---	Peak
3	135.03	-60.15	-47.15	-13.00	-47.51	-12.64	0.00	0.00	---	---	Peak

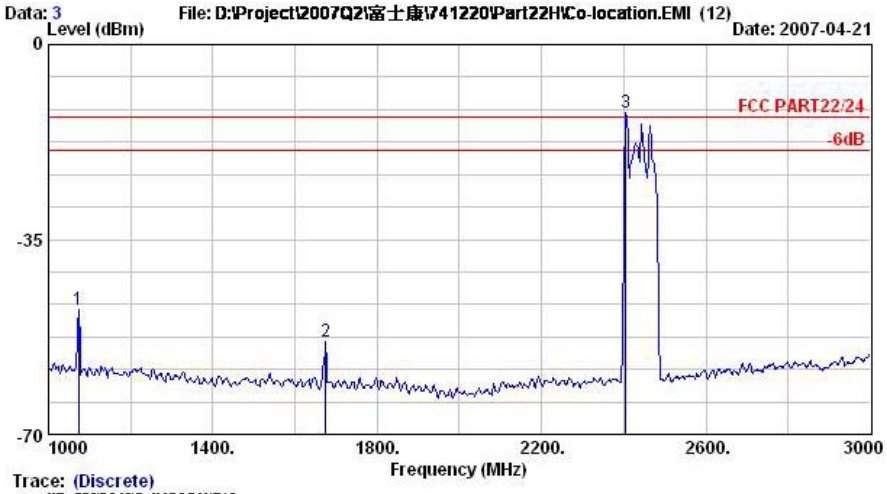


Trace: (Discrete)

Condition : LF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link; Ch189 + Adaptor + Earphone
Memo : + BT Link
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	dB	dB	cm	deg	
1 @	836.90	-43.16			-41.82	-1.33	0.00	0.00	---	---	Peak
2 @	880.30	-28.75			-27.84	-0.91	0.00	0.00	---	---	Peak
3	995.80	-57.73	-44.73	-13.00	-57.93	0.20	0.00	0.00	---	---	Peak

Remark:
1. #1: MS Signal
2. #2: BS Signal



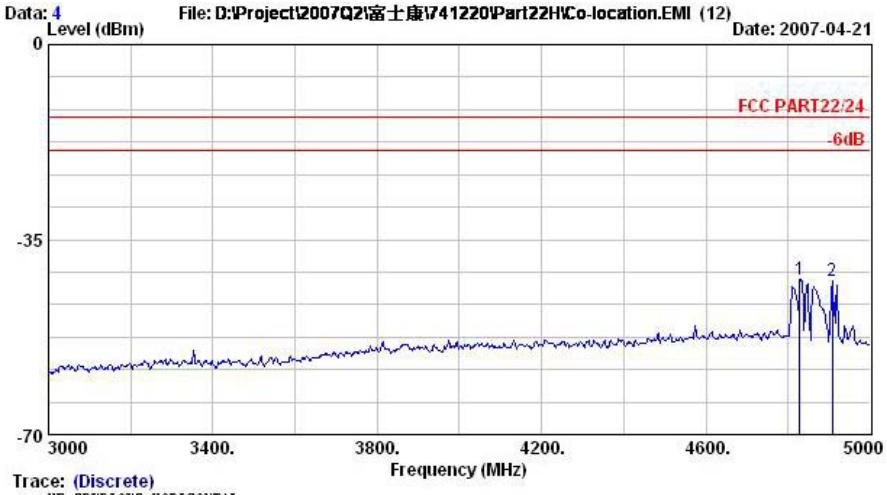
Trace: (Discrete)

Condition	:	HF-SPURIOUS HORIZONTAL
EUT	:	GSM/GPRS/EDGE Mobile Phone
Power	:	120Vac/60Hz
Model	:	FG 741220
Memo	:	GSM 850 Link; Ch189 + Adaptor + Earphone
Memo	:	+ BT Link
Plane	:	E2

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	dB	dB	cm	deg	
1	1074.00	-47.66	-34.66	-13.00	-49.30	1.64	0.00	0.00	---	---	Peak
2	1674.00	-53.34	-40.34	-13.00	-53.56	0.22	0.00	0.00	---	---	Peak
3 @	2404.00	-12.11			-13.00	0.89	0.00	0.00	---	---	Peak

Remark:

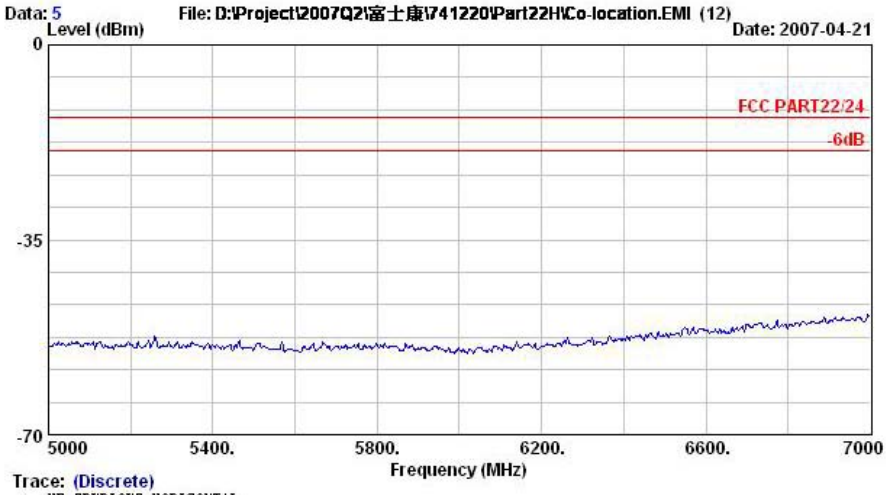
1. #3: BT Signal



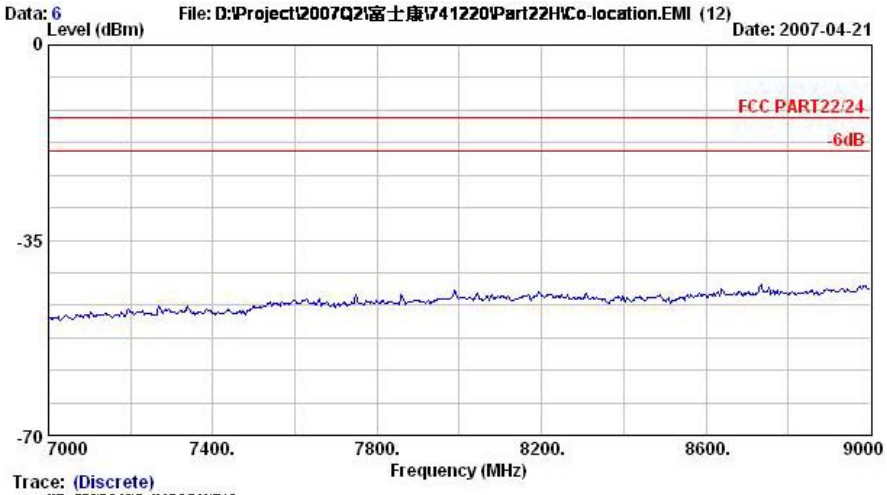
Trace: (Discrete)

Condition	:	HF-SPURIOUS HORIZONTAL
EUT	:	GSM/GPRS/EDGE Mobile Phone
Power	:	120Vac/60Hz
Model	:	FG 741220
Memo	:	GSM 850 Link; Ch189 + Adaptor + Earphone
Memo	:	+ BT Link
Plane	:	E2

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	dB	dB	cm	deg	
1 @	4828.00	-42.22	-29.22	-13.00	-53.77	11.55	0.00	0.00	---	---	Peak
2 @	4908.00	-42.33	-29.33	-13.00	-53.35	11.02	0.00	0.00	---	---	Peak

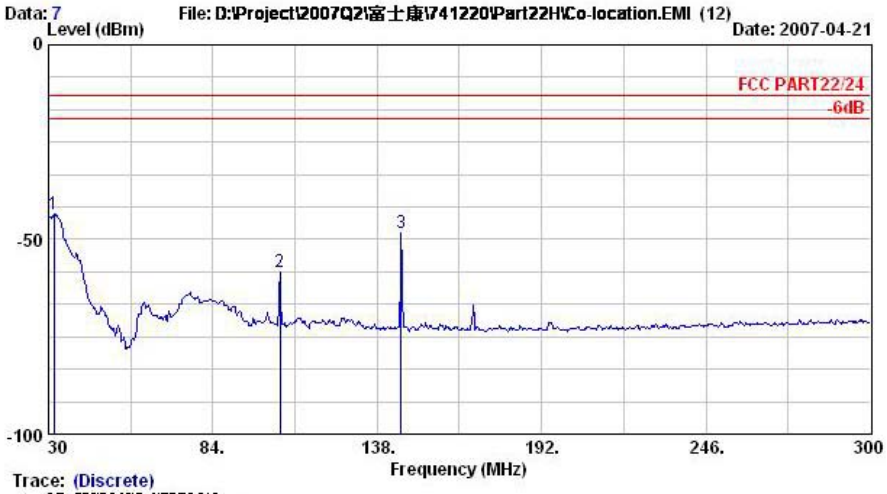


Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link; Ch189 + Adaptor + Earphone
Memo : + BT Link
Plane : E2



Condition : HF-SPURIOUS HORIZONTAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link; Ch189 + Adaptor + Earphone
Memo : + BT Link
Plane : E2

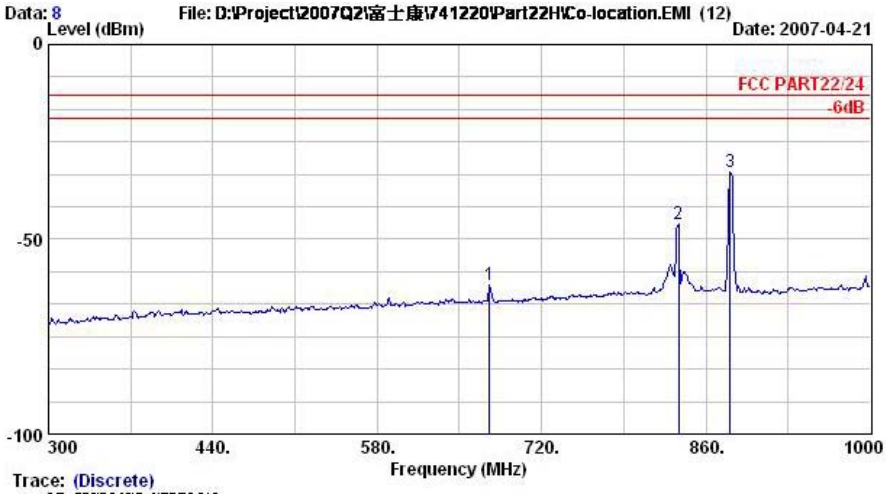
Vertical Polarization



Trace: (Discrete)

Condition : LF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link; Ch189 + Adaptor + Earphone
Memo : + BT Link
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	dB	dB	cm	deg	
1 @	31.89	-43.34	-30.34	-13.00	-33.72	-9.62	0.00	0.00	---	---	Peak
2	106.14	-58.54	-45.54	-13.00	-50.80	-7.74	0.00	0.00	---	---	Peak
3	145.83	-48.45	-35.45	-13.00	-40.35	-8.10	0.00	0.00	---	---	Peak

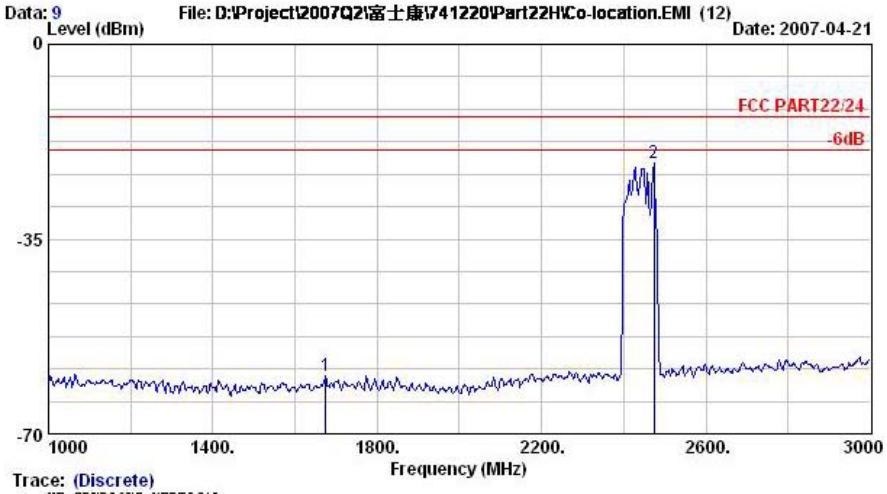


Trace: (Discrete)

Condition : LF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link; Ch189 + Adaptor + Earphone
Memo : + BT Link
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	dB	dB	cm	deg	
1	675.90	-61.73	-48.73	-13.00	-60.93	-0.79	0.00	0.00	---	---	Peak
2	836.90	-46.22			-47.58	1.36	0.00	0.00	---	---	Peak
3 @	880.30	-32.77			-34.49	1.71	0.00	0.00	---	---	Peak

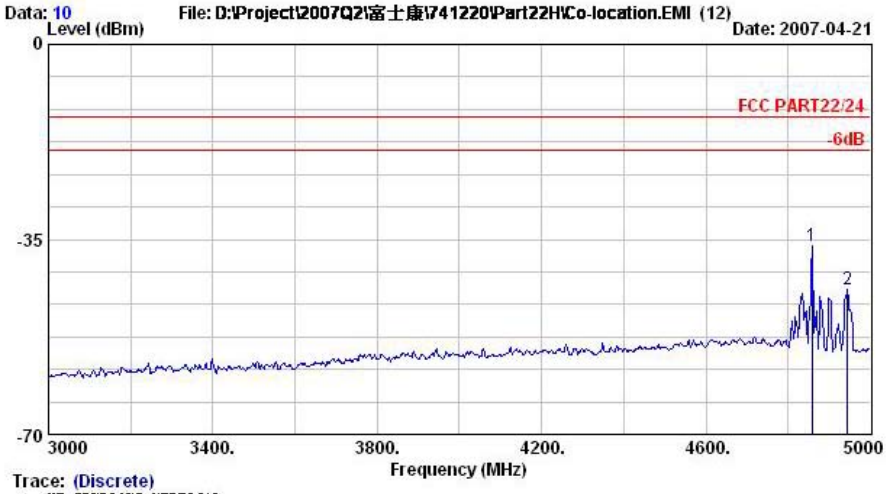
Remark:
1. #2: MS Signal
2. #3: BS Siganl



Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link; Ch189 + Adaptor + Earphone
Memo : + BT Link
Plane : E2

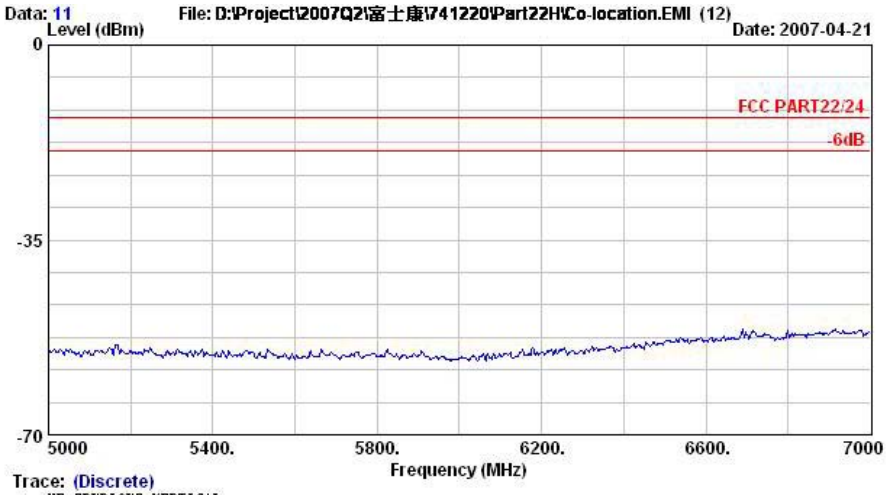
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	dB	dB	cm	deg	
1	1674.00	-59.50	-46.50	-13.00	-59.02	-0.48	0.00	0.00	---	---	Peak
2 @	2474.00	-21.33			-23.54	2.21	0.00	0.00	---	---	Peak

Remark:
1. #2: BT Signal

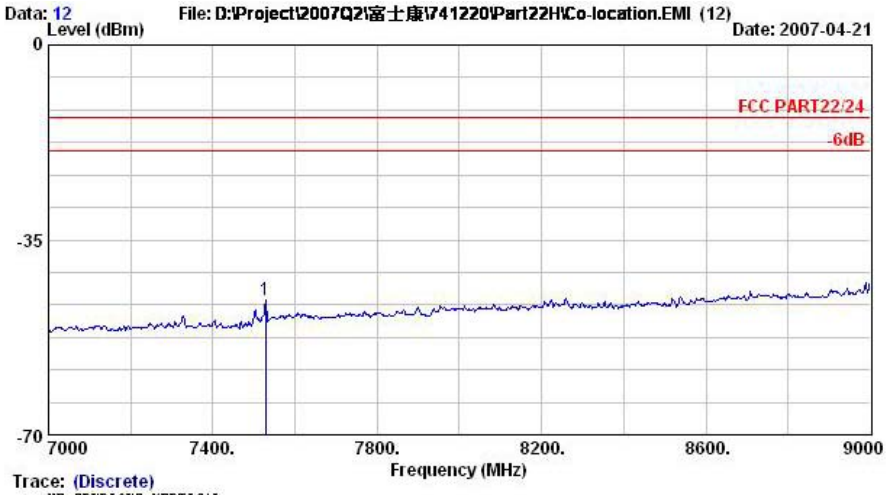


Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link; Ch189 + Adaptor + Earphone
Memo : + BT Link
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	dB	dB	cm	deg	
1 @	4858.00	-36.11	-23.11	-13.00	-46.14	10.03	0.00	0.00	---	---	Peak
2 @	4944.00	-44.10	-31.10	-13.00	-53.35	9.25	0.00	0.00	---	---	Peak



Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link; Ch189 + Adaptor + Earphone
Memo : + BT Link
Plane : E2



Condition : HF-SPURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG 741220
Memo : GSM 850 Link; Ch189 + Adaptor + Earphone
Memo : + BT Link
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBm	dB	dBm	dBm	dB	dB	dB	cm	deg	
1 @	7528.00	-45.92	-32.92	-13.00	-59.29	13.37	0.00	0.00	---	---	Peak

Remark：There is no more obvious emission except the listings above.

4.7 Frequency Stability (Temperature Variation)

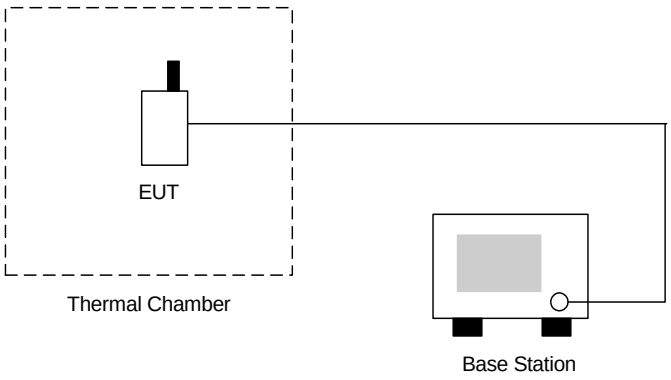
4.7.1 Measurement Instrument

As decribed in chapter 5 of this test report.

4.7.2 Test Procedure

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to -30°C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
3. With power OFF, the temperature was raised in 10°C steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change ws noted within one minute.
4. The temperature tests were performed for the worst case.
5. Test data was recorded.

4.7.3 Test Setup Layout



4.7.4 Test Result

- Test Mode : GSM850 (GSM) CH189

Temperature(℃)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	NA	NA	2.5	Passed
-20	NA	NA		
-10	-15	-0.01		
0	-16	-0.01		
10	-11	-0.01		
20	-13	-0.01		
30	-19	-0.01		
40	-14	-0.01		
50	-25	-0.01		

Remark : The DUT can not be turned on at -30~-20 ℃.

- Test Mode : PCS1900 (GSM) CH661

Temperature(℃)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	NA	NA	2.5	Passed
-20	NA	NA		
-10	-22	-0.01		
0	-23	-0.01		
10	-19	-0.01		
20	-21	-0.01		
30	-24	-0.01		
40	-17	-0.01		
50	-21	-0.01		

Remark : The DUT can not be turned on at -30~-20 ℃.

4.8 Frequency Stability (Voltage Variation)

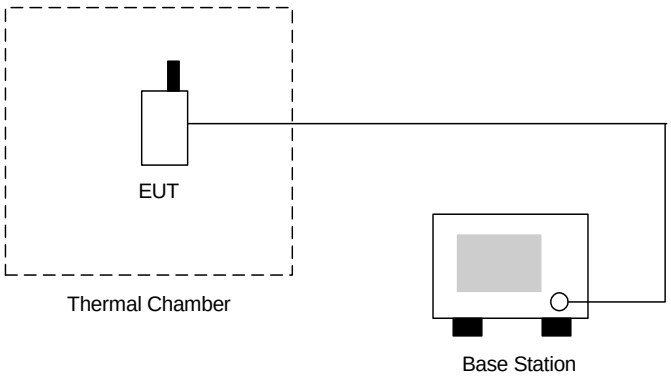
4.8.1 Measurement Instrument

As described in chapter 5 of this test report.

4.8.2 Test Procedure

1. The EUT was placed in a temperature chamber at 25±5 °C and connected as the following section.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

4.8.3 Test Setup Layout



4.8.4 Test Result

- Test Mode : GSM850 (GSM) CH189

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	-11.0	-0.01	2.5	Passed
BEP	-12.0	-0.01		
4.2	-14.0	-0.01		

- Test Mode : PCS1900 (GSM) CH661

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	-23.0	-0.01	2.5	Passed
BEP	-20.0	-0.01		
4.2	-19.0	-0.01		

Remark:
1. Normal Voltage=3.7V.
2. Battery End Point (BEP)=3.2 V.

5 List of Measurement Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Oct. 05, 2006	Oct. 04, 2007	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 13, 2006	Jul. 12, 2007	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Com-Power	AH118	10094	1G~18G	Dec. 26, 2006	Dec. 25, 2007	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Nov. 20, 2006	Nov. 19, 2008	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G - 26.5G	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Pre Amplifier	Mini Circuits	ZKL-2	D092004-1	10~2500MHz	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Base Station Simulator	R & S	CMU200	106656	WCDMA	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)

6 Uncertainty Evaluation

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
combined standard uncertainty Uc(y)	**1.27**		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	**2.54**		

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncertainty of x_i		$u(x_i)$	Ci	$Ci*u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR Γ1= 0.197 Antenna VSWR Γ2= 0.194 Uncertainty=20log(1-Γ1*Γ2*Γ3)	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty Uc(y)	**2.36**				
Measuring uncertainty for a level of confidence of 95% U=2Ue(y)	**4.72**				

END OF TEST REPORT