



FCC/IC TEST REPORT

for

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

Equipment : GSM/GPRS/EDGE Smart phone
Trade Name : HP
Model No. : HSTNH-F13C
FCC ID : B94HSTNH-F13C
IC ID : 466Q-HHF13C
Tx Frequency Range : GSM850 : 824~849 MHz
PCS1900 : 1850~1910 MHz
Max. ERP/EIRP Power : GSM850(GSM) : 0.76 W
GSM850(EDGE) : 0.24 W
PCS1900(GSM) : 0.61 W
PCS1900(EDGE) : 0.52 W
Emission Designator : GSM : 300KGXW
EDGE : 300KG7W
Applicant : Hewlett-Packard Company
3000 Hanover Street, Palo Alto, CA 94304

- The test result refers exclusively to the test presented test model / sample.
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- **Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of U.S. government.**
- The data shown in this test report were carried out on Jan. 24, 2007 at **Sporton International Inc. LAB.**
- Report No.: FG711207, 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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1. General Information

1.1. Applicant

Hewlett-Packard Company
3000 Hanover Street, Palo Alto, CA 94304

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/GPRS/EDGE Smart phone
Trade Name : HP
Model No. : HSTNH-F13C
FCC ID : B94HSTNH-F13C
IC ID : 466Q-HHF13C
Power Supply Type : Switching
AC Power Cord : AC 120V, Wall-mount, 2 pin
Adapter : PhiHong, PSB05R-050Q
Battery : Foxlink, HSTNH-K13B
Earphone : Merry, EMC220-X007



1.4 Feature of Equipment under Test

DUT Type :	GSM/GPRS/EDGE Smart phone
Trade Name :	HP
Model Name :	HSTNH-F13C
FCC ID :	B94HSTNH-F13C
IC ID :	466Q-HHF13C
Tx Frequency :	GSM850 : 824 ~ 849 MHz PCS1900 : 1850 ~1910 MHz WLAN / Bluetooth : 2400 ~ 2483.5
Rx Frequency :	GSM850 : 869 ~ 894 MHz PCS1900 : 1930 ~ 1990 MHz WLAN / Bluetooth : 2400 ~ 2483.5
Maximum Output Power to Antenna :	GSM : 32.25 dBm(GSM) ; 30.29 dBm(GPRS) ; 30.7 dBm(EDGE) DCS : 30.36 dBm(GSM) ; 30.29 dBm(GPRS) ; 29.3 dBm(EDGE) 802.11b : 17.97 dBm / 802.11g : 20.39 dBm Bluetooth : 0.92 dBm
Maximum ERP/EIRP :	GSM850(GSM) : 0.76 W (28.80 dBm) GSM850(EDGE) : 0.24 W (23.72 dBm) PCS1900(GSM) : 0.61 W (27.83 dBm) PCS1900(EDGE) : 0.52 W (27.12 dBm)
Antenna Type :	GSM/DCS: Fixed Internal Bluetooth: PIFA Antenna WLAN: PIFA Antenna
HW Version :	5
SW Version :	0.061
Power Rating (DC/AC , Voltage and Current of RF element or PA) :	DC 5V / 1A
Digital Modulation Emission :	GSM : GMSK EDGE : 8PSK WLAN : DSSS / OFDM 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 : Jan. 12, 2007

Report Date : Jan. 26, 2007

2 Test Configuration of Equipment under Test

2.1 Test Manner

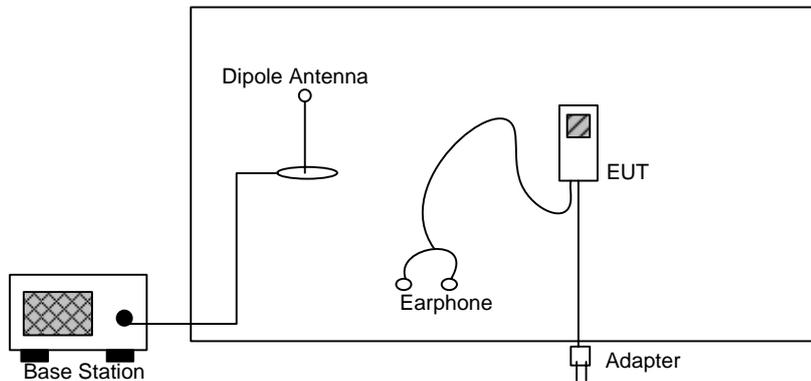
- a. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- b. During all testings, EUT is in link mode with base station emulator at maximum power level.
- c. Frequency range investigated: radiated emission 30 MHz to 9000 MHz for GSM850; 30MHz to 19000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

2.2 Test Mode

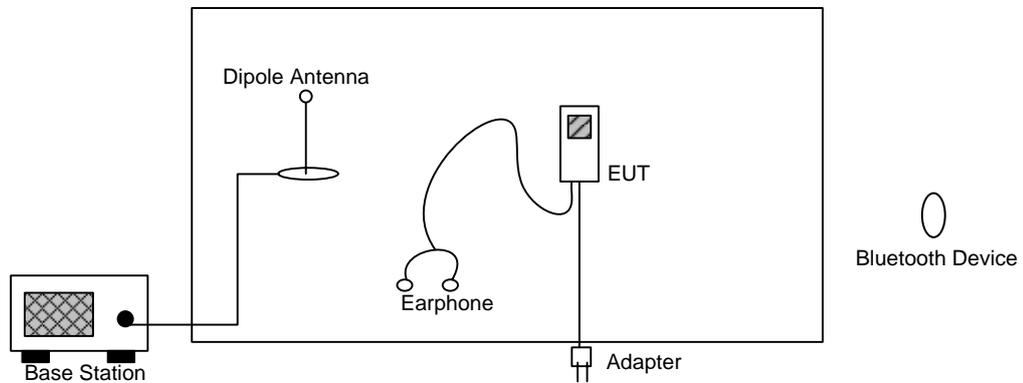
Application	GSM850	PCS1900
Radiated Emission	<input checked="" type="checkbox"/> Mode 1: GSM Link_CH 189 <input checked="" type="checkbox"/> Mode 2: EDGE Link_CH 189 <input checked="" type="checkbox"/> Mode 5: GSM Link with Bluetooth Link	<input checked="" type="checkbox"/> Mode 3: GSM Link_CH 661 <input checked="" type="checkbox"/> Mode 4: EDGE Link_CH 661
Conducted Measurement	<input checked="" type="checkbox"/> Mode 1: GSM_CH 189 <input checked="" type="checkbox"/> Mode 2: EDGE_CH 189	<input checked="" type="checkbox"/> Mode 3: GSM_CH 661 <input checked="" type="checkbox"/> Mode 4: EDGE_CH 661

2.3 Connection Diagram of Test System

<Mode 1~4>



<Mode 5>



2.4 Ancillary Equipment List

Item	Equipment	Model No.	Serial No.
1.	Base Station(R&S)	CMU200	106656
2.	Bluetooth Device (Engotech)	ET-BH111	N/A
3.	BT Base Station (Anritus)	8852A	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

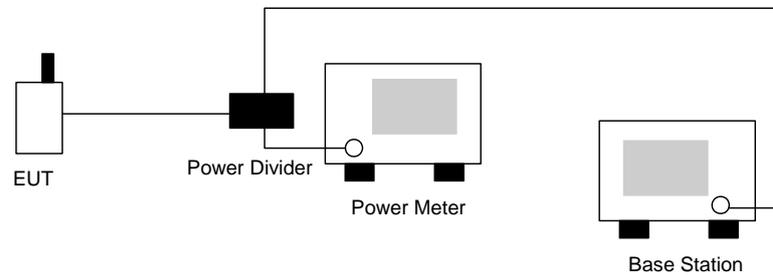
4.2.1 Measurement Instruments :

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)	32.25	1.679
	189	836.4 (Mid)	31.73	1.489
	251	848.8 (High)	31.73	1.489
GSM850 (EDGE)	128	824.2 (Low)	30.70	1.175
	189	836.4 (Mid)	30.40	1.096
	251	848.8 (High)	30.10	1.023
PCS1900 (GSM)	512	1850.2 (Low)	30.29	1.069
	661	1880.0 (Mid)	30.36	1.086
	810	1909.8 (High)	30.32	1.076
PCS1900 (EDGE)	512	1850.2 (Low)	29.30	0.851
	661	1880.0 (Mid)	29.00	0.794
	810	1909.8 (High)	28.90	0.776



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. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm) : Input power to substitution antenna.

G_s (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

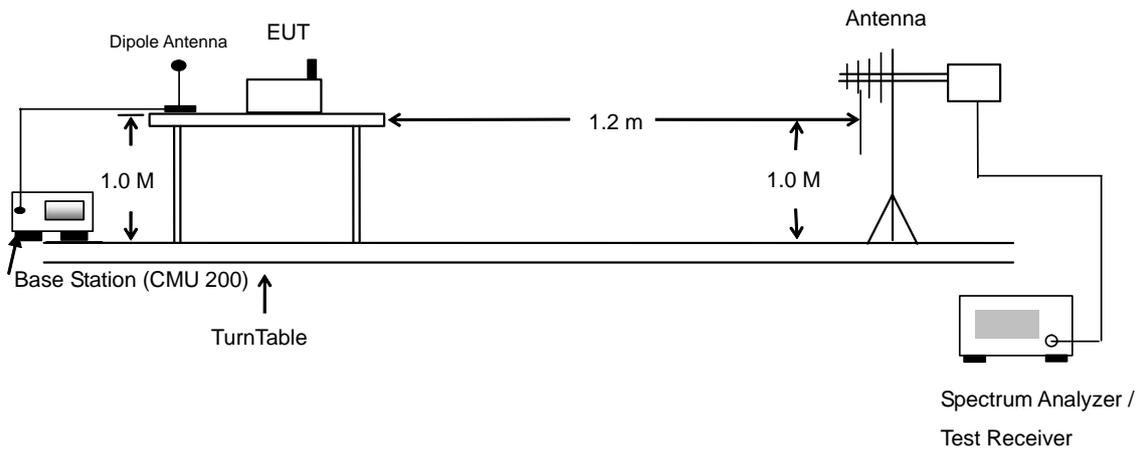
$E_s = R_s + AF$

AF (dB/m) : Receive antenna factor

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

R_s : 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	-19.36	-48.12	0.00	-1.08	27.68	0.59
836.40	-19.12	-48.28	0.00	-0.93	28.23	0.67
848.80	-18.79	-48.35	0.00	-0.76	28.80	0.76
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-32.10	-47.97	0.00	-1.08	14.79	0.03
836.40	-31.86	-48.01	0.00	-0.93	15.22	0.03
848.80	-34.29	-48.05	0.00	-0.76	13.00	0.02

GSM850 (EDGE) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-24.61	-48.12	0.00	-1.08	22.43	0.17
836.40	-24.06	-48.28	0.00	-0.93	23.29	0.21
848.80	-23.87	-48.35	0.00	-0.76	23.72	0.24
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-37.59	-47.97	0.00	-1.08	9.30	0.01
836.40	-36.69	-48.01	0.00	-0.93	10.39	0.01
848.80	-36.72	-48.05	0.00	-0.76	10.57	0.01



PCS1900 (GSM) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-26.54	-51.88	0.00	1.96	27.30	0.54
1880.00	-27.29	-52.99	0.00	2.00	27.70	0.59
1909.80	-28.43	-54.28	0.00	1.98	27.83	0.61
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-33.41	-52.13	0.00	1.96	20.68	0.12
1880.00	-35.23	-53.17	0.00	2.00	19.94	0.10
1909.80	-36.45	-54.13	0.00	1.98	19.66	0.09

PCS1900 (EDGE) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-27.04	-51.88	0.00	1.96	26.80	0.48
1880.00	-28.48	-52.99	0.00	2.00	26.51	0.45
1909.80	-29.14	-54.28	0.00	1.98	27.12	0.52
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-34.20	-52.13	0.00	1.96	19.89	0.10
1880.00	-36.02	-53.17	0.00	2.00	19.15	0.08
1909.80	-37.20	-54.13	0.00	1.98	18.91	0.08

4.4 Occupied Bandwidth and Band Edge Measurement

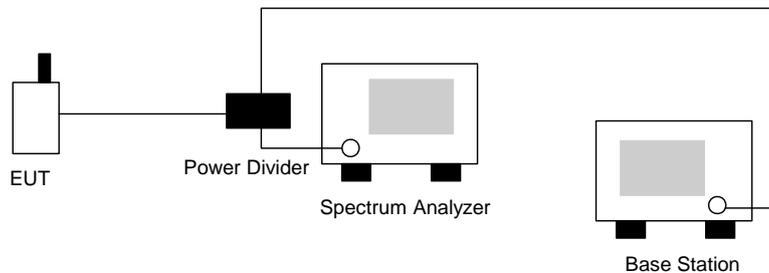
4.4.1 Measurement Instruments

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 $BW/100$.

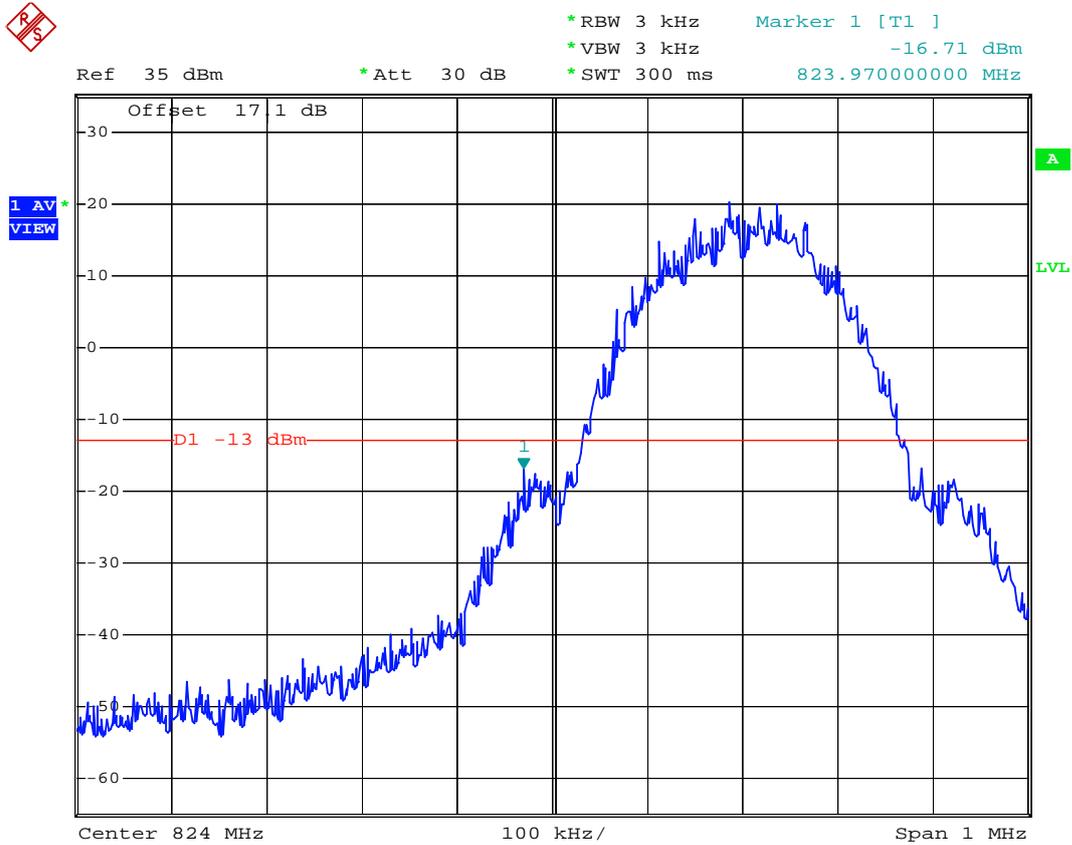
4.4.3 Test Setup Layout





4.4.4 Test Result

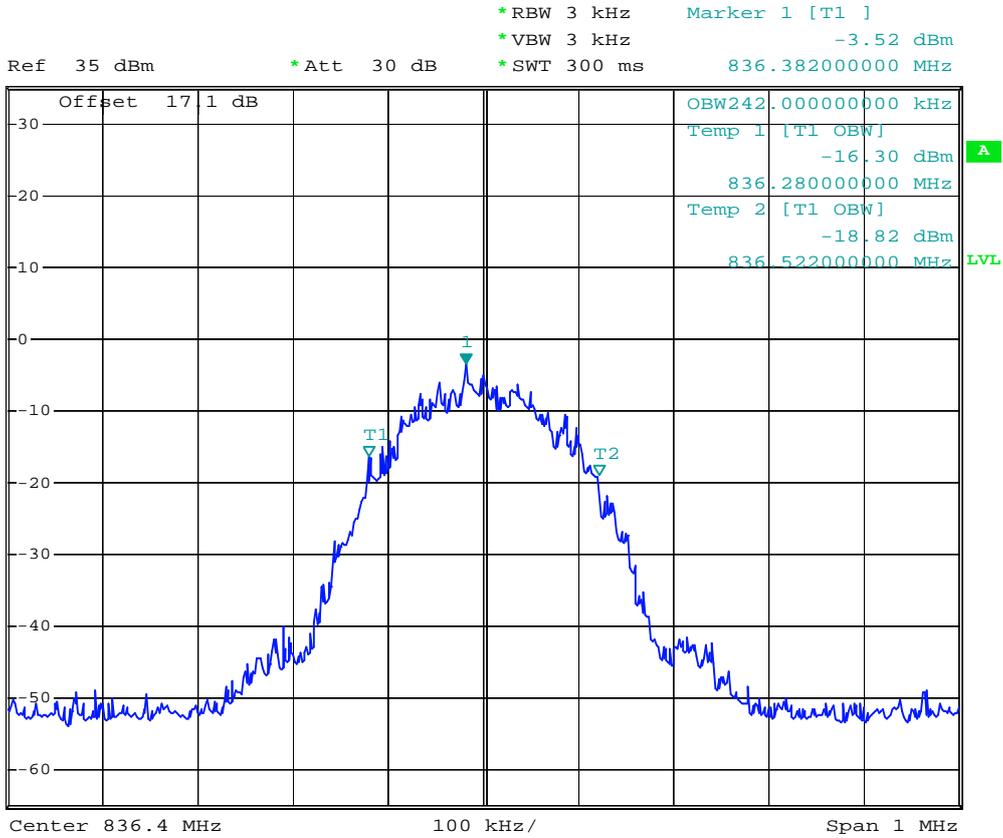
- Mode 1
- Test Mode : GSM850 (GSM) CH128 Lower Band Edge
- Power State : High



Date: 12.JAN.2007 19:44:04



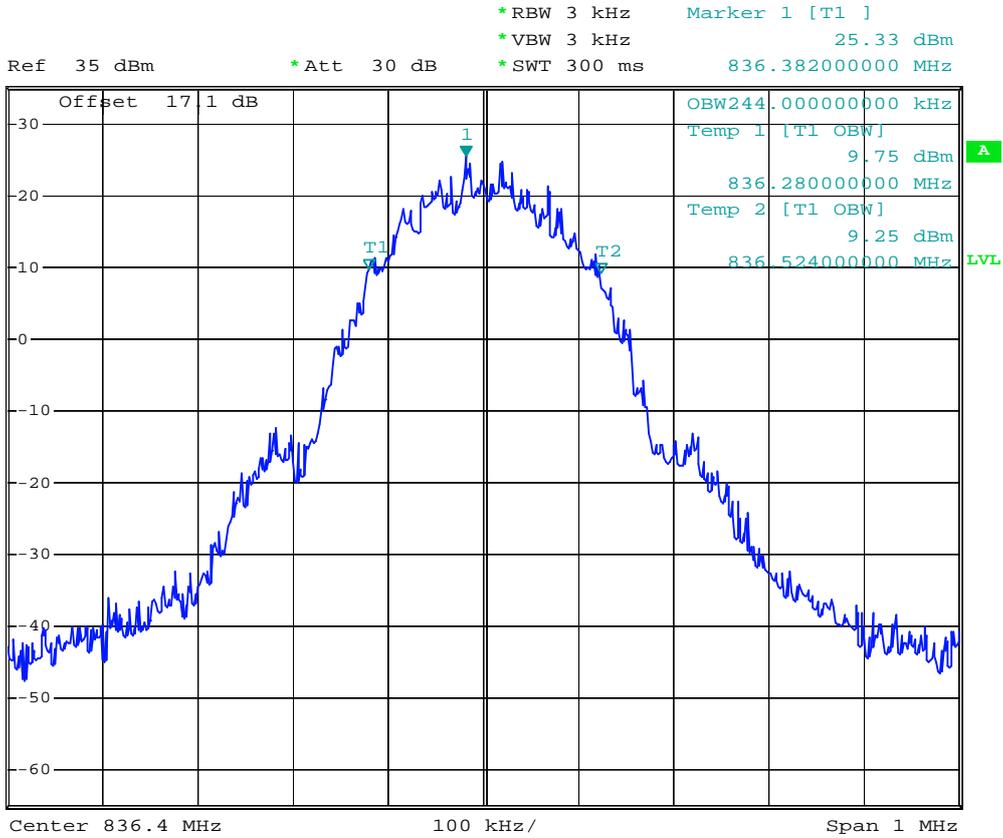
- Test Mode : GSM850 (GSM) CH189 99% Occupied Bandwidth
- Power State : Low



Date: 12.JAN.2007 19:41:47



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



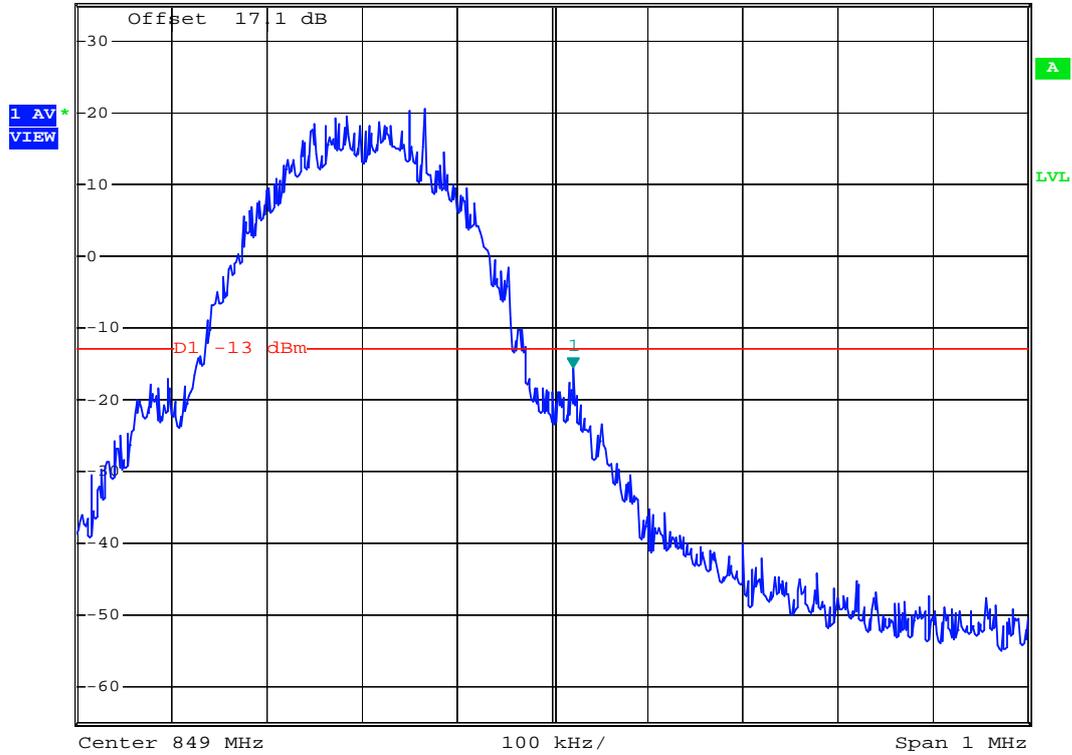
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- Test Mode : GSM850 (GSM) CH251 Higher Band Edge
- Power State : High



Ref 35 dBm *Att 30 dB *RBW 3 kHz Marker 1 [T1]
*VBW 3 kHz -15.52 dBm
*SWT 300 ms 849.02200000 MHz



Date: 12.JAN.2007 19:44:32



- Test Mode : GSM850 (EDGE) CH189 99% Occupied Bandwidth
- Power State : High

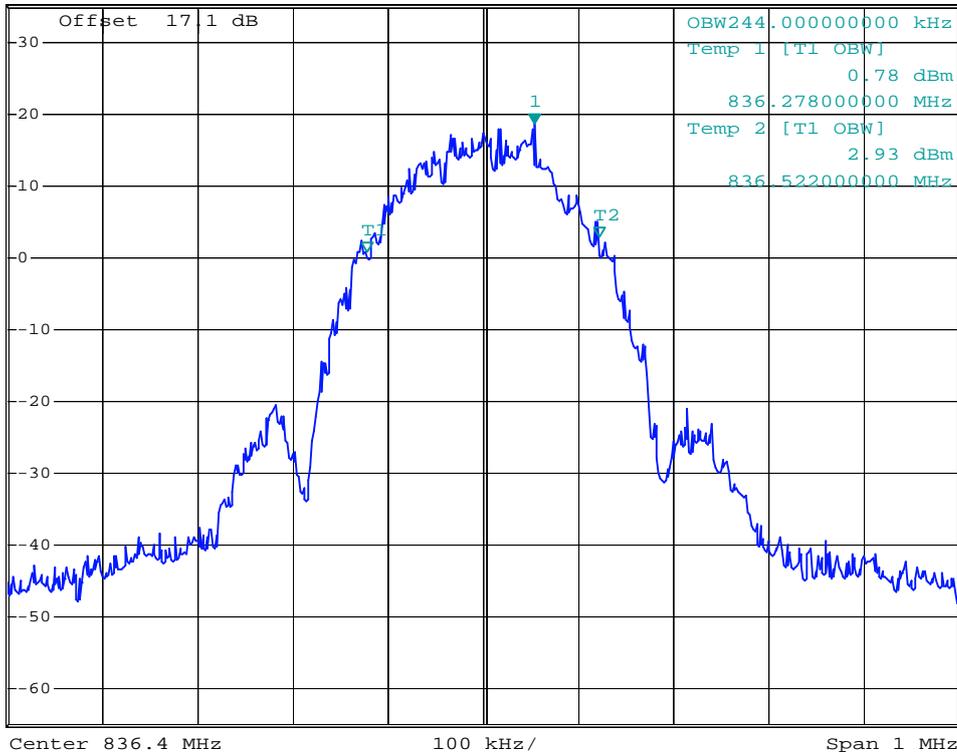


*RBW 3 kHz Marker 1 [T1]
 *VBW 3 kHz 18.57 dBm
 *SWT 300 ms 836.454000000 MHz

Ref 35 dBm

*Att 30 dB

1 PK VIEW



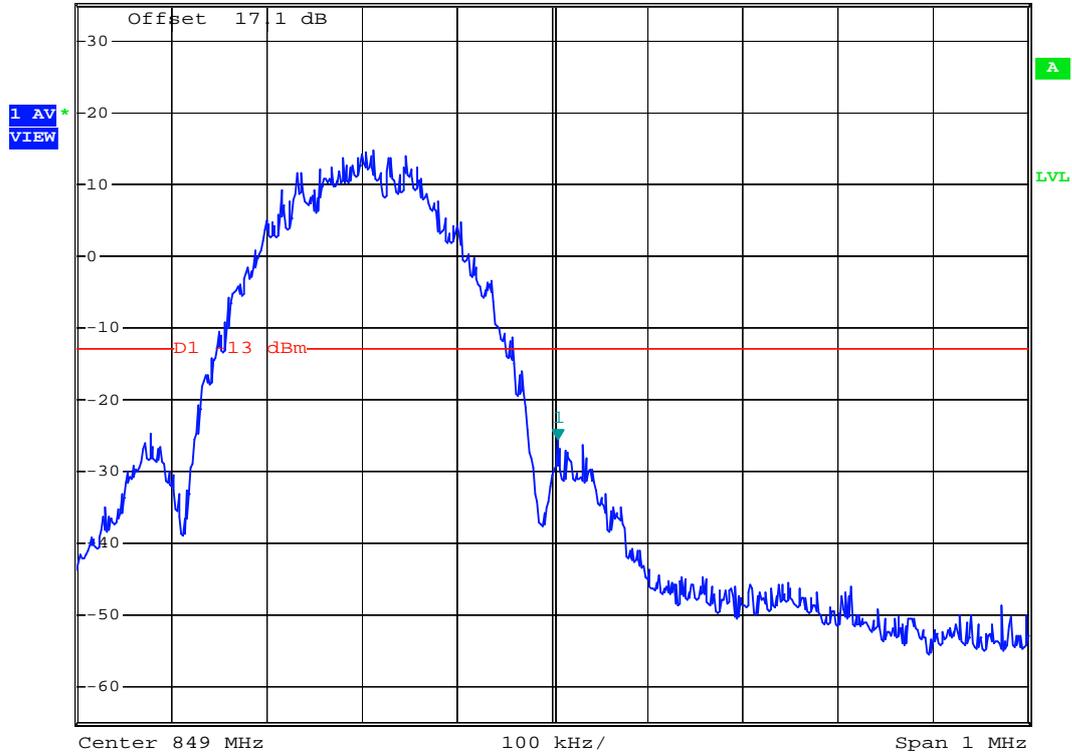
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- Test Mode : GSM850 (EDGE) CH251 Higher Band Edge
- Power State : High



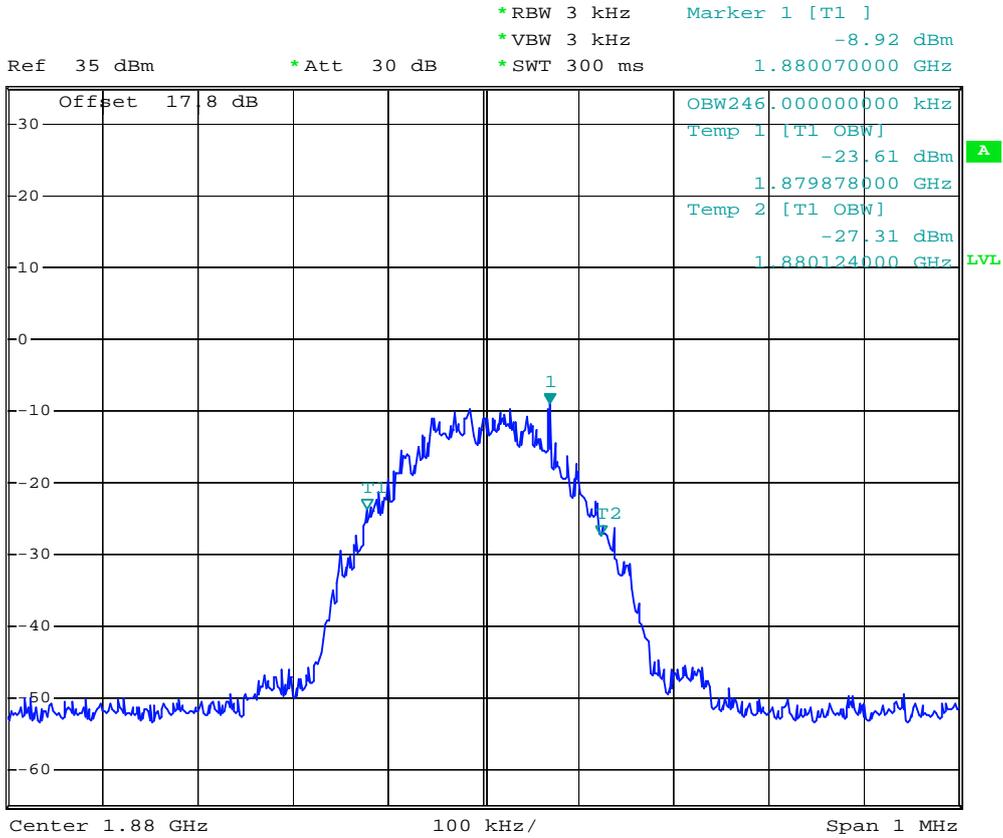
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*VBW 3 kHz 849.006000000 MHz
*SWT 300 ms



Date: 15.JAN.2007 11:05:04



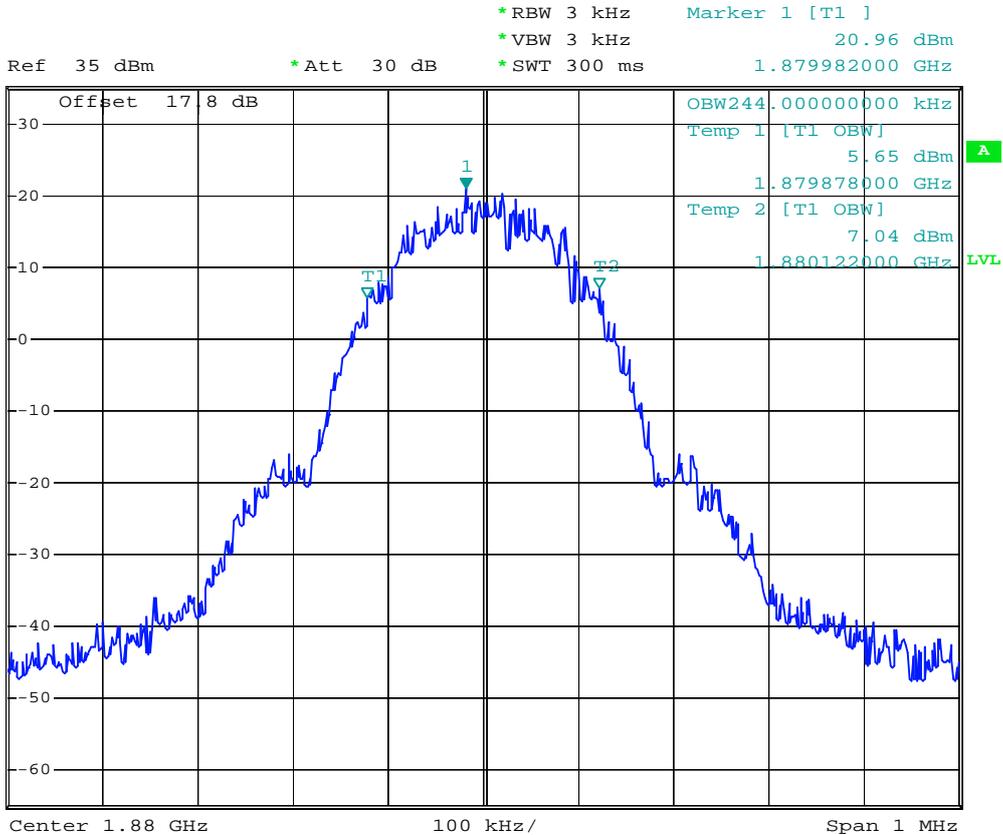
- Test Mode : PCS1900 (GSM) CH661 99% Occupied Bandwidth
- Power State : Low



Date: 12.JAN.2007 20:07:00



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



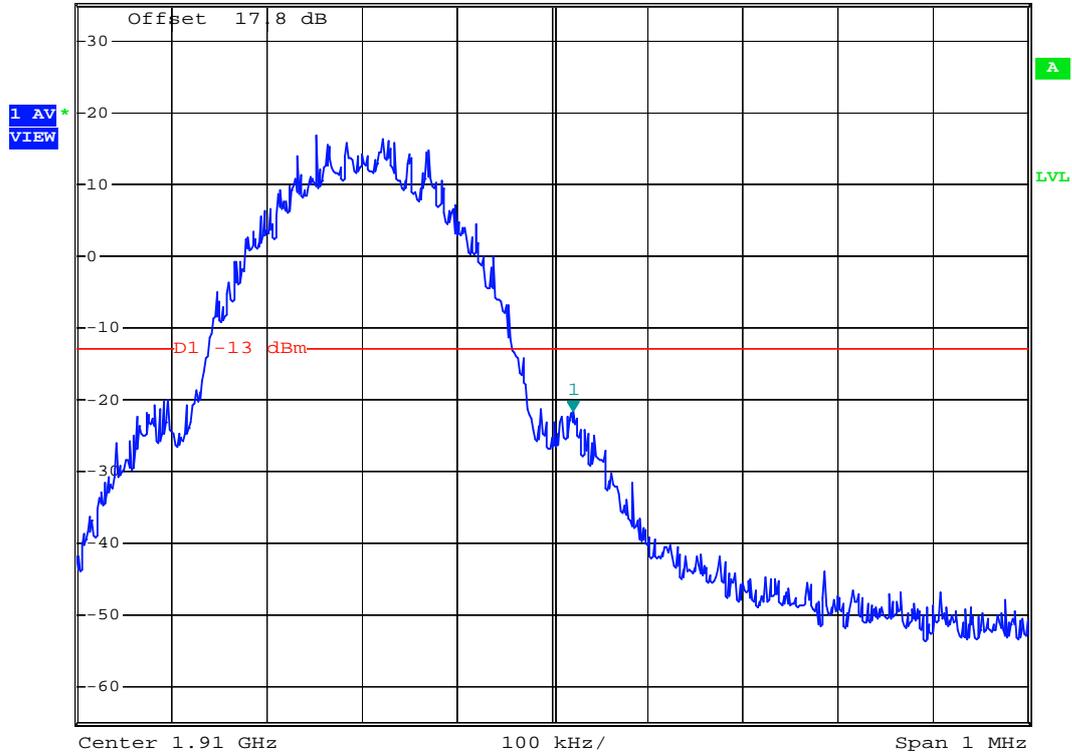
Date: 12.JAN.2007 20:05:52



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



Ref 35 dBm *Att 30 dB *RBW 3 kHz Marker 1 [T1]
*VBW 3 kHz -21.66 dBm
*SWT 300 ms 1.910022000 GHz



Date: 12.JAN.2007 20:11:04



- Test Mode : PCS1900(EDGE) CH661 99% Occupied Bandwidth
- Power State : High

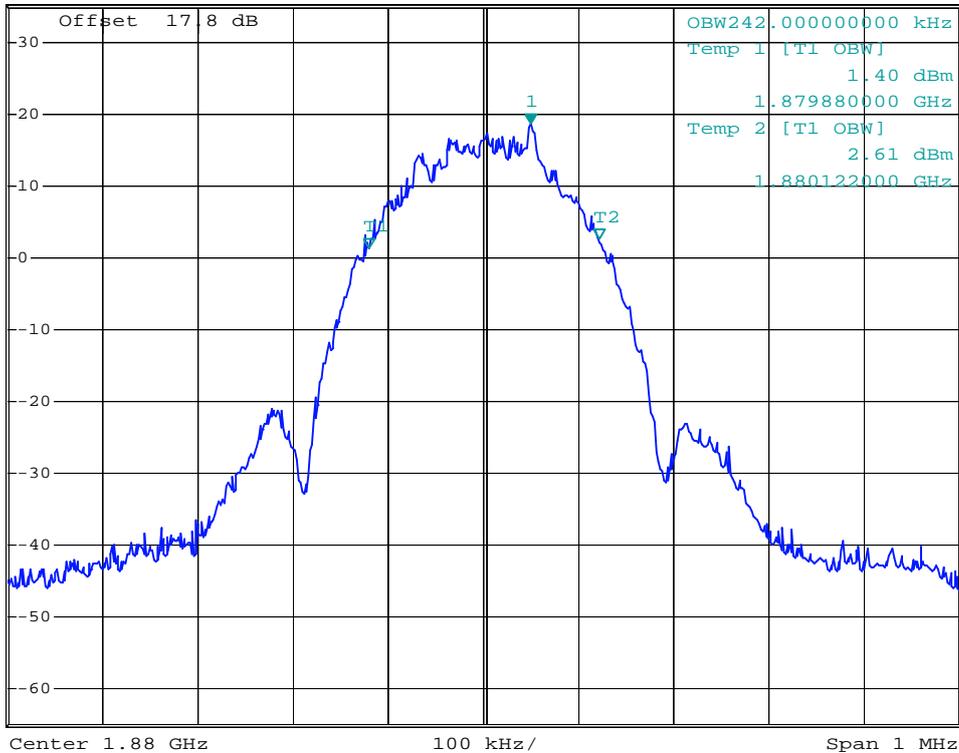


*RBW 3 kHz Marker 1 [T1]
 *VBW 3 kHz 18.52 dBm
 *SWT 300 ms 1.880050000 GHz

Ref 35 dBm

*Att 30 dB

1 PK VIEW



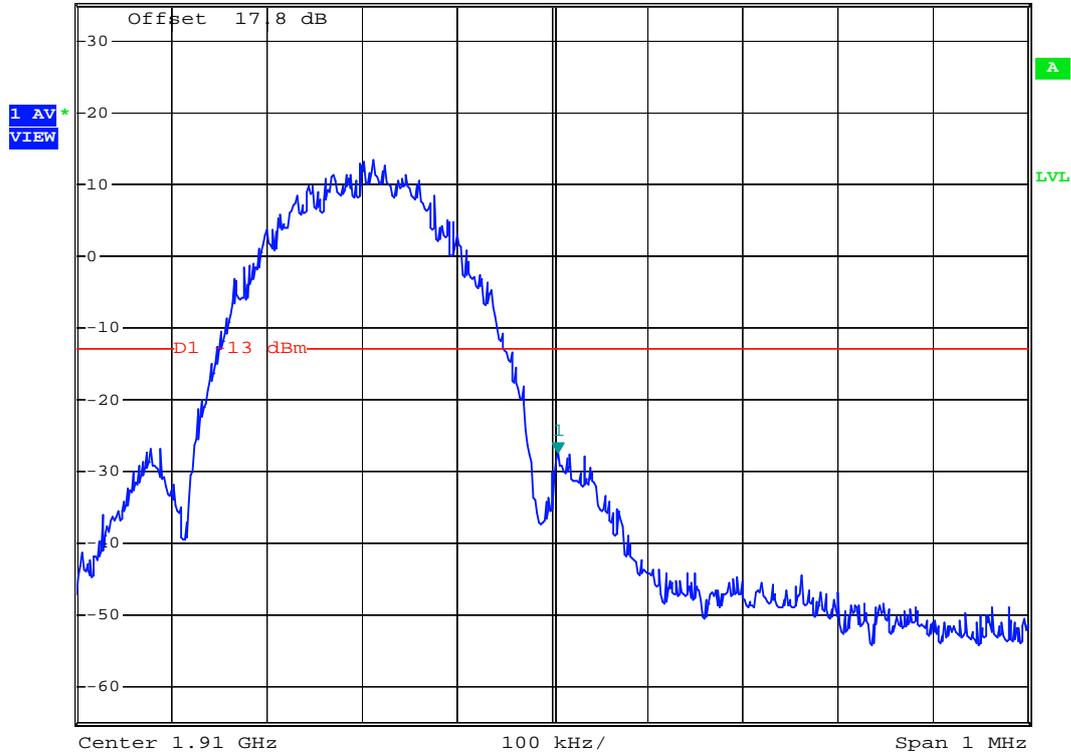
Date: 15.JAN.2007 11:36:53



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



Ref 35 dBm *Att 30 dB *RBW 3 kHz Marker 1 [T1]
*VBW 3 kHz -27.30 dBm
*SWT 300 ms 1.910006000 GHz



Date: 15.JAN.2007 11:41:43

4.5 Conducted Emission

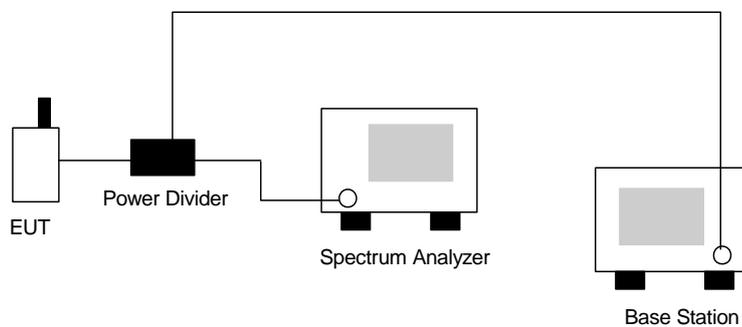
4.5.1 Measurement Instruments

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.

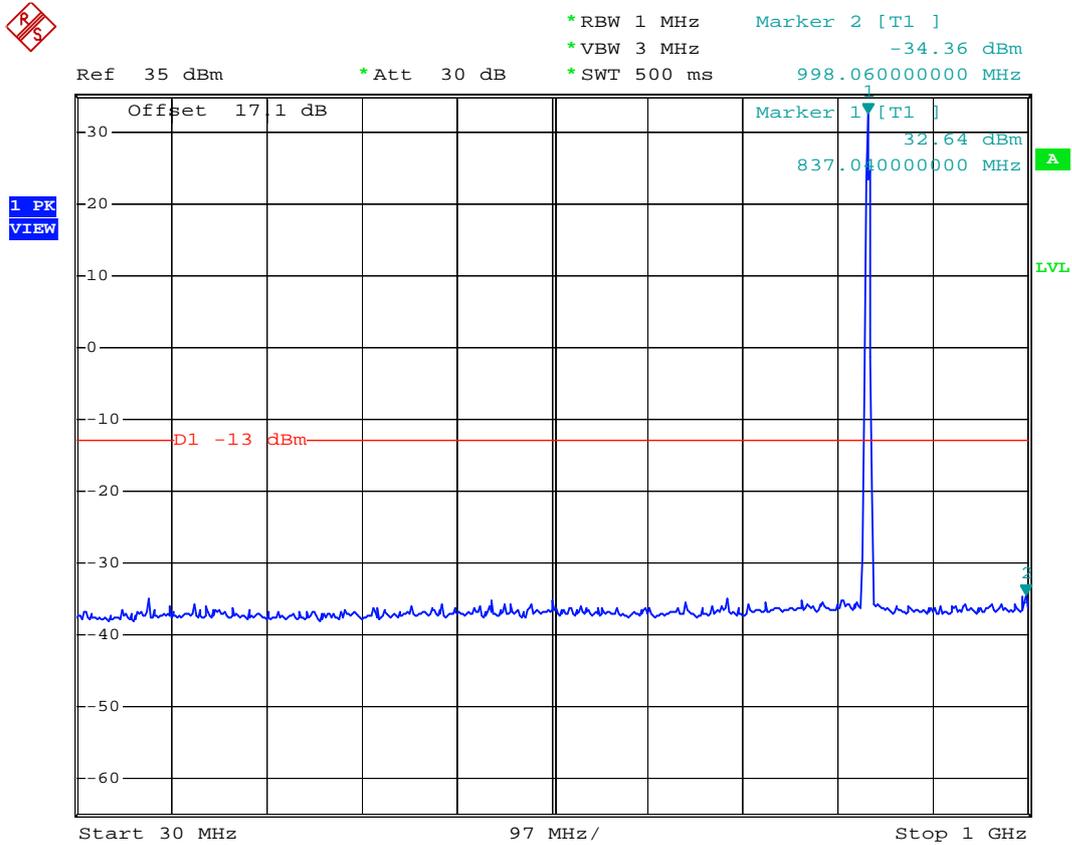
4.5.3 Test Setup Layout





4.5.4 Test Result

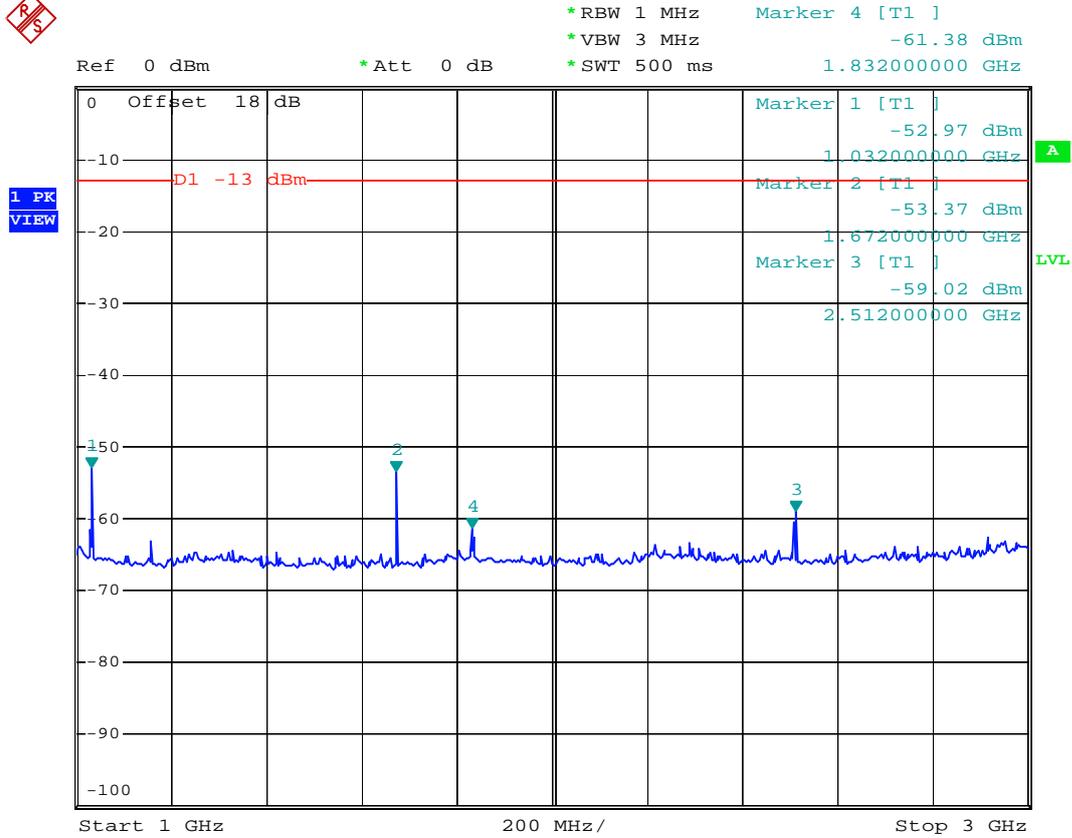
- Mode 1
- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 30M-1G



Date: 12.JAN.2007 19:49:47



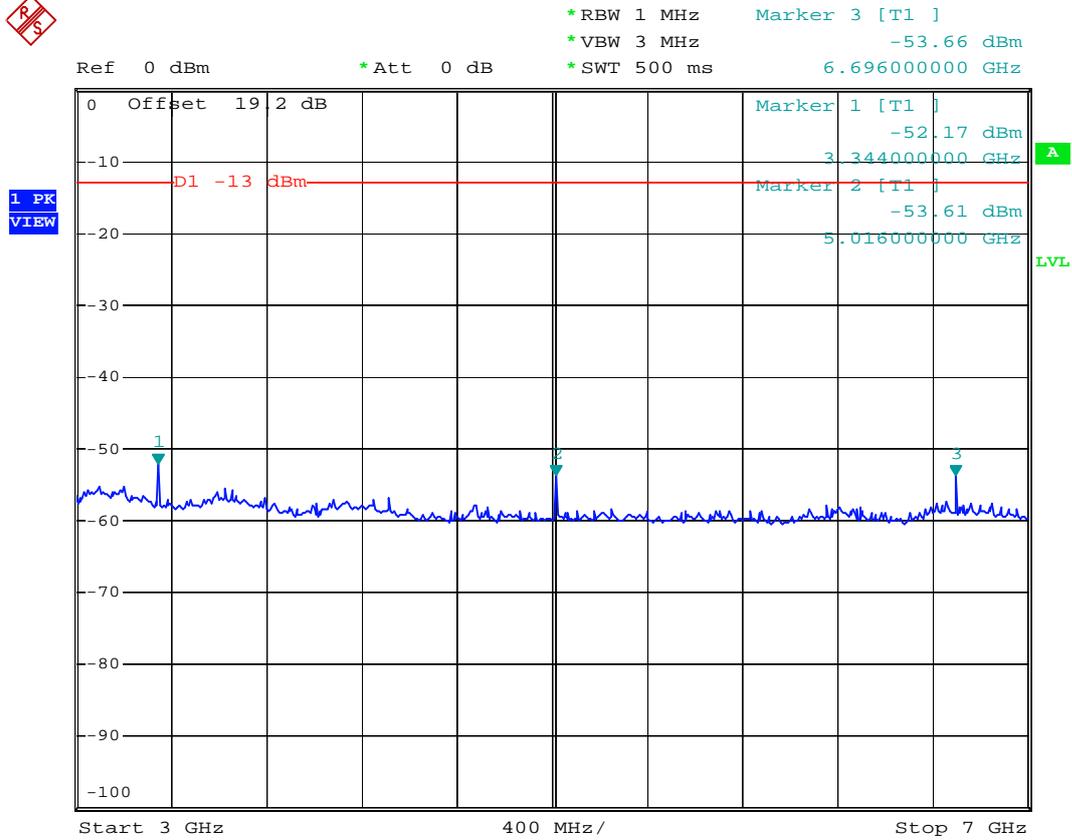
- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 1G-3G



Date: 12.JAN.2007 19:51:13



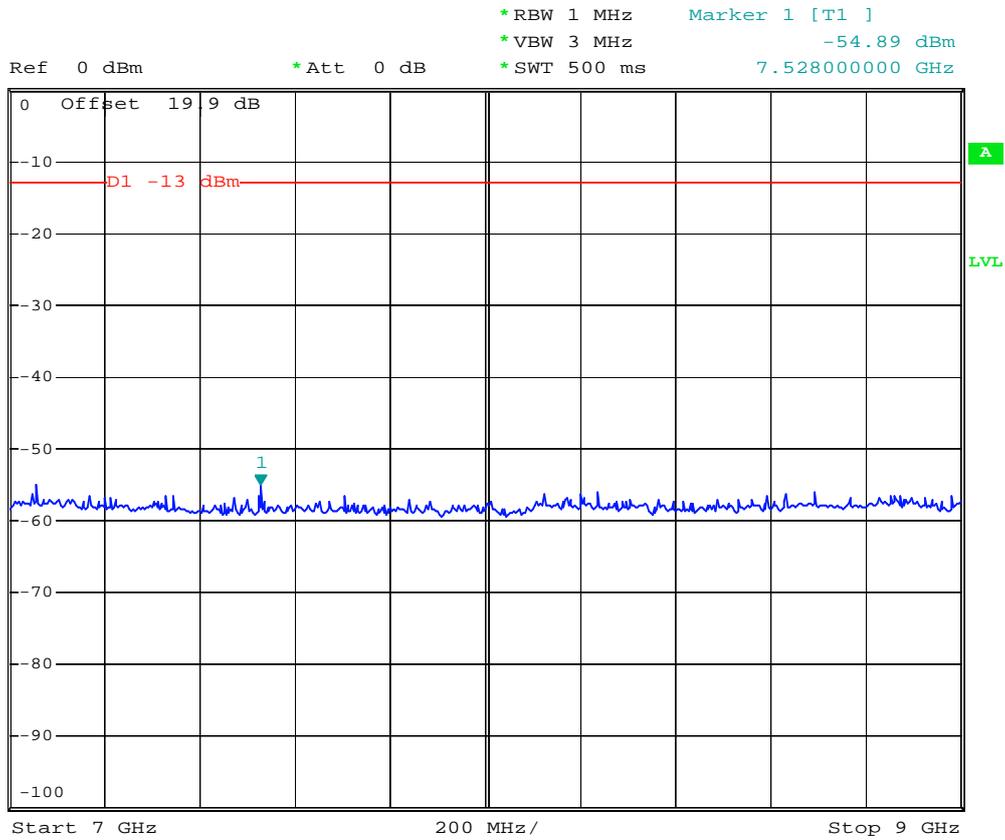
- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 3G-7G



Date: 12.JAN.2007 19:52:01



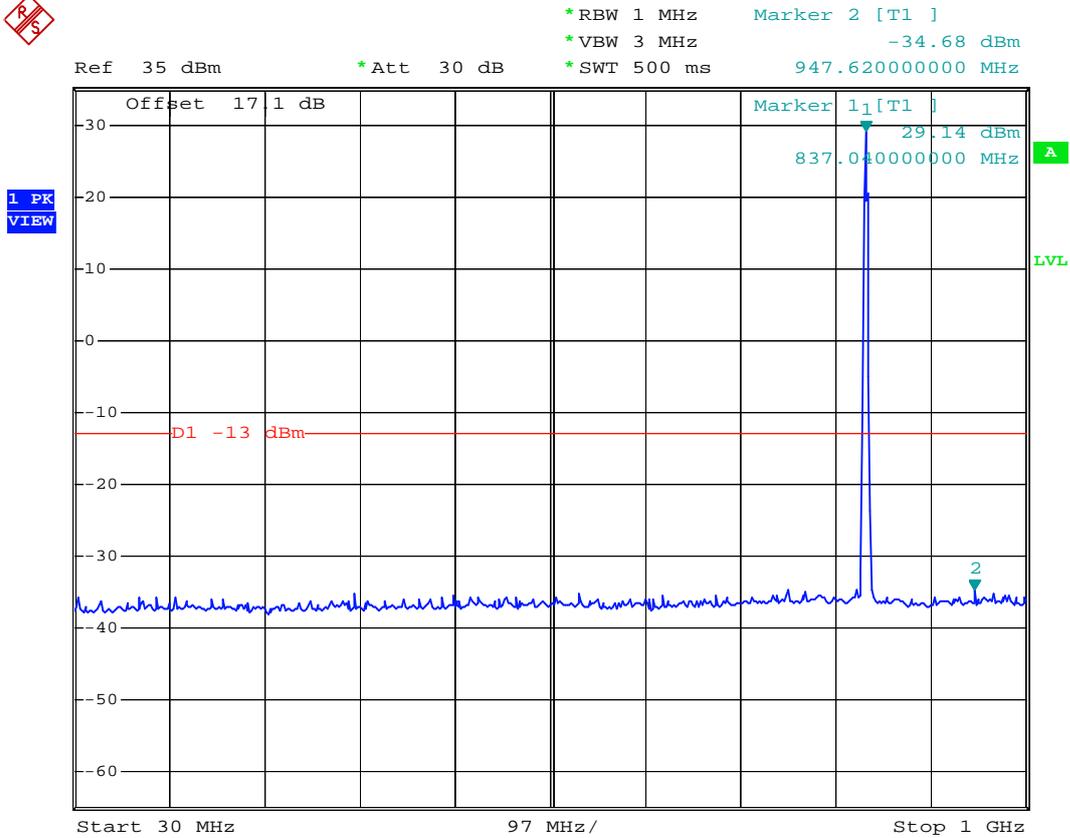
- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 7G-9G



Date: 12.JAN.2007 19:52:46



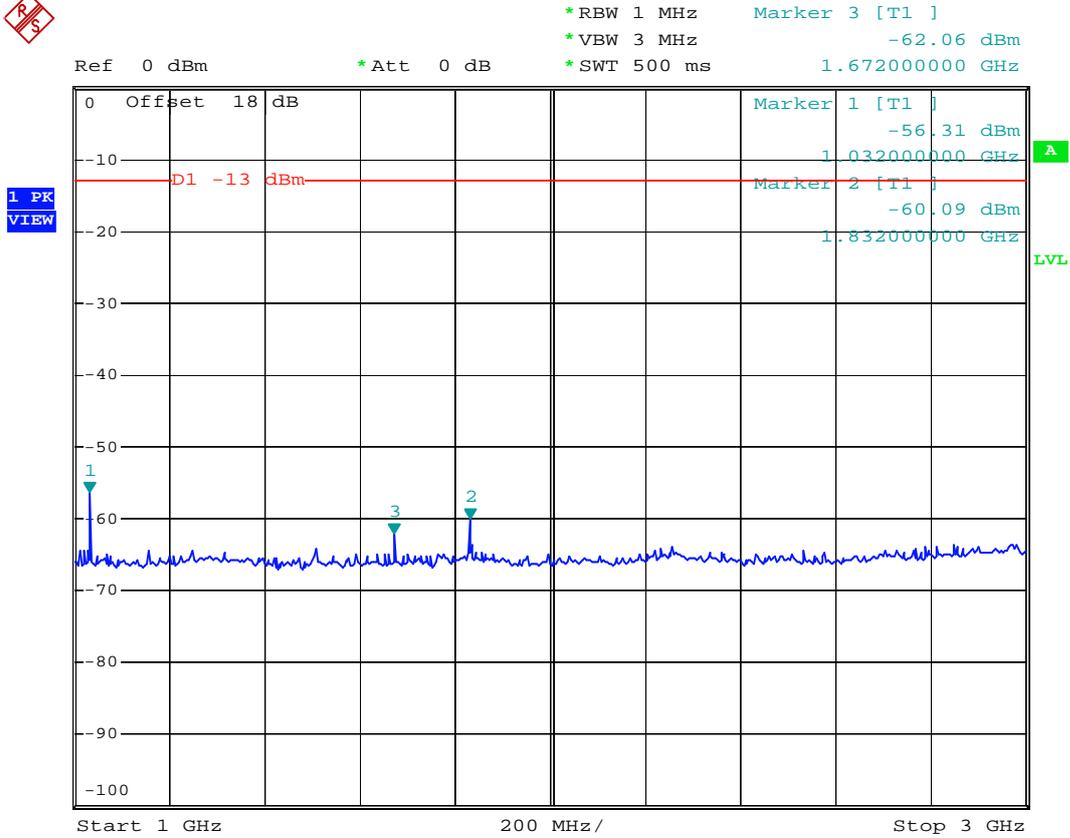
- Mode 2
- Test Mode : GSM850 (EDGE) CH189
- Frequency Range : 30M-1G



Date: 15.JAN.2007 11:09:31



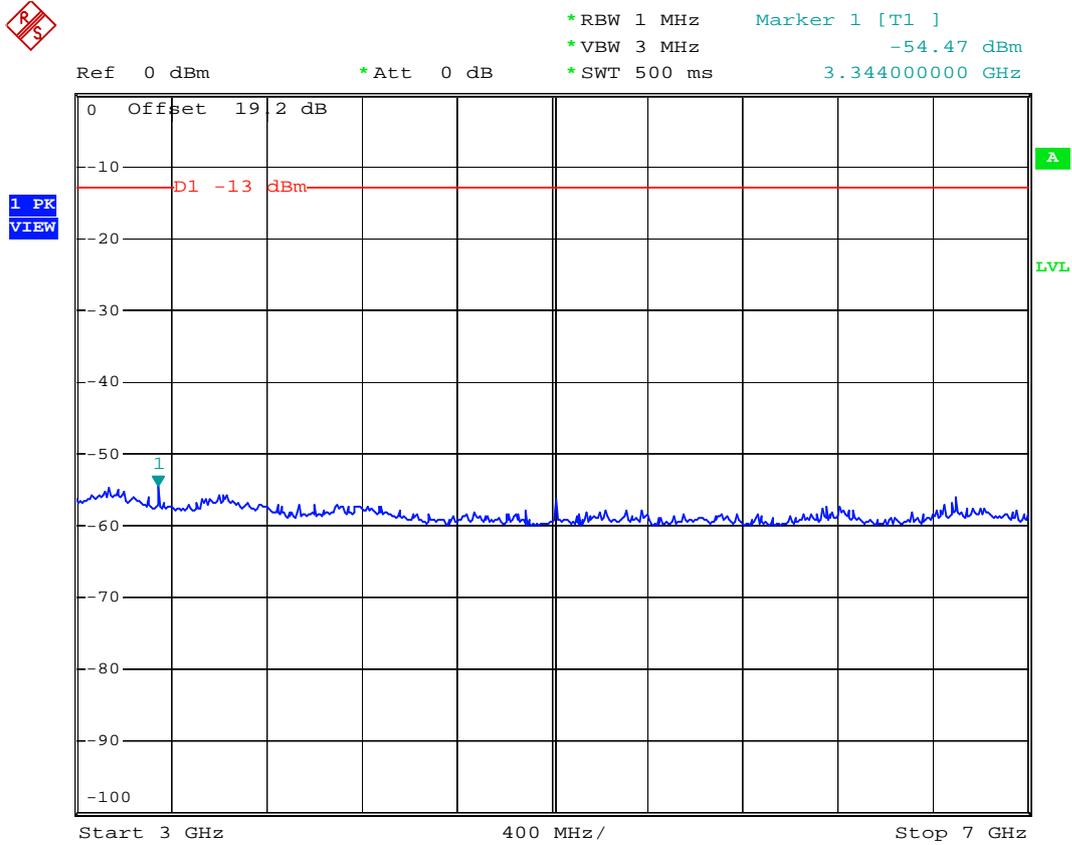
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- Frequency Range : 1G-3G



Date: 15.JAN.2007 11:17:09



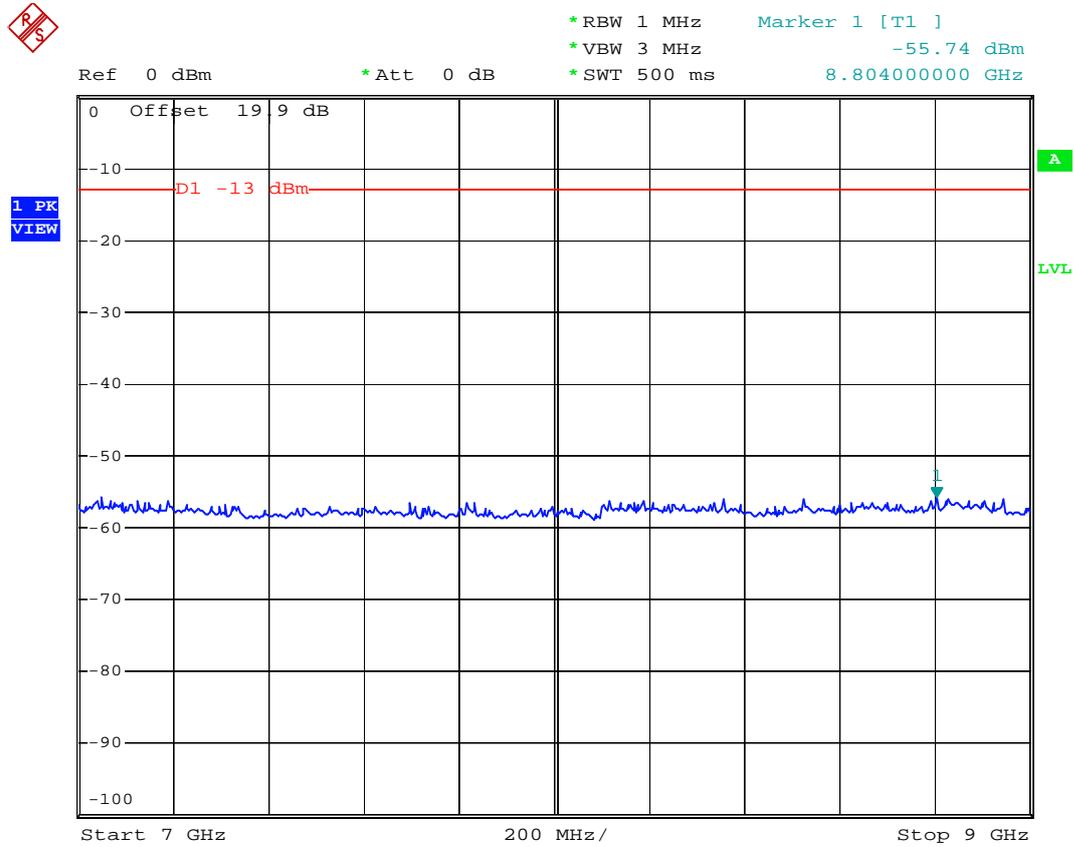
- Test Mode : GSM850 (EDGE) CH189
- Frequency Range : 3G-7G



Date: 15.JAN.2007 11:18:06



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



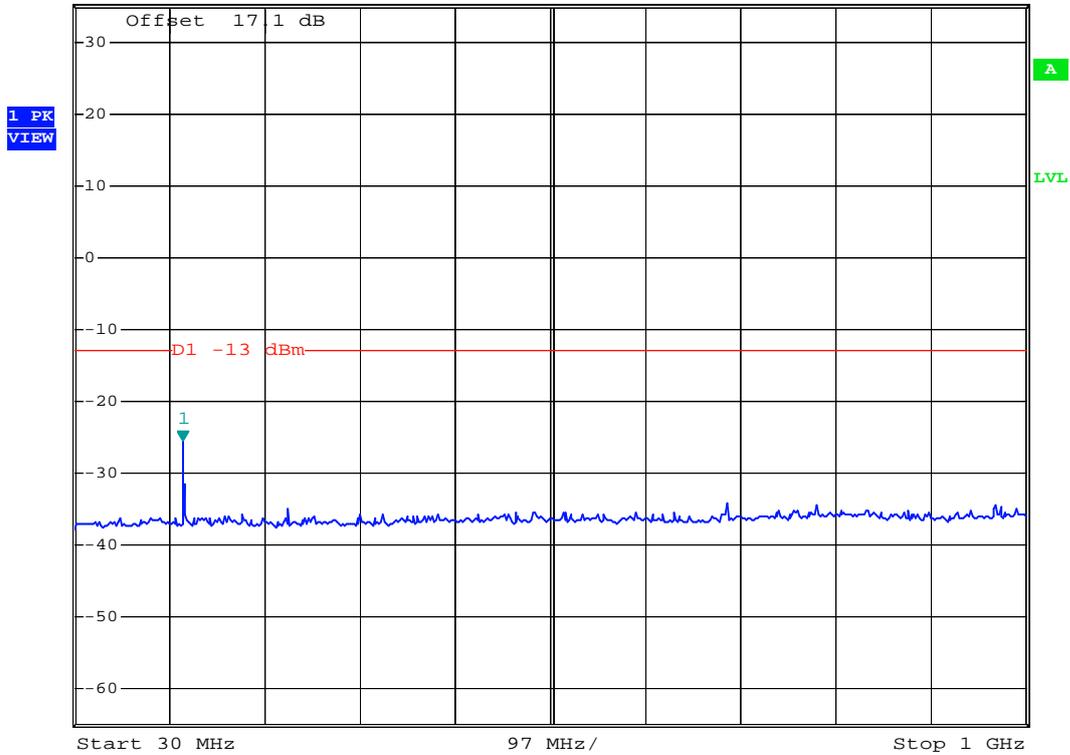
Date: 15.JAN.2007 11:19:37



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



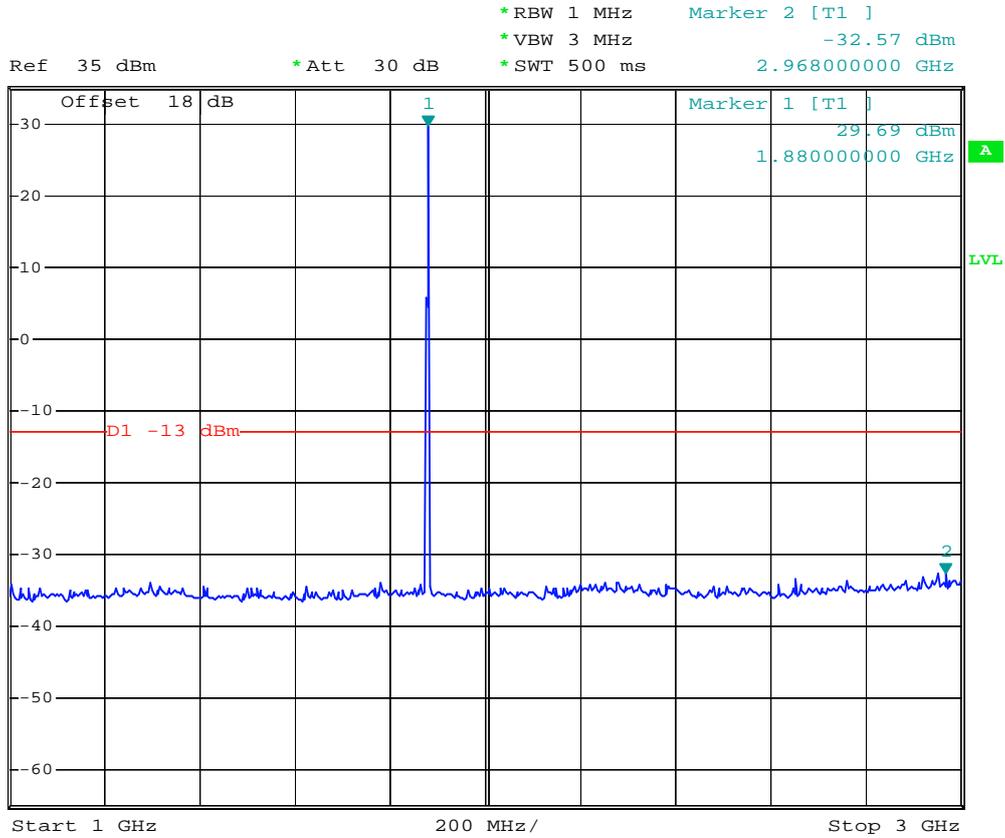
Ref 35 dBm * Att 30 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -25.60 dBm
* SWT 500 ms 140.58000000 MHz



Date: 12.JAN.2007 19:59:15



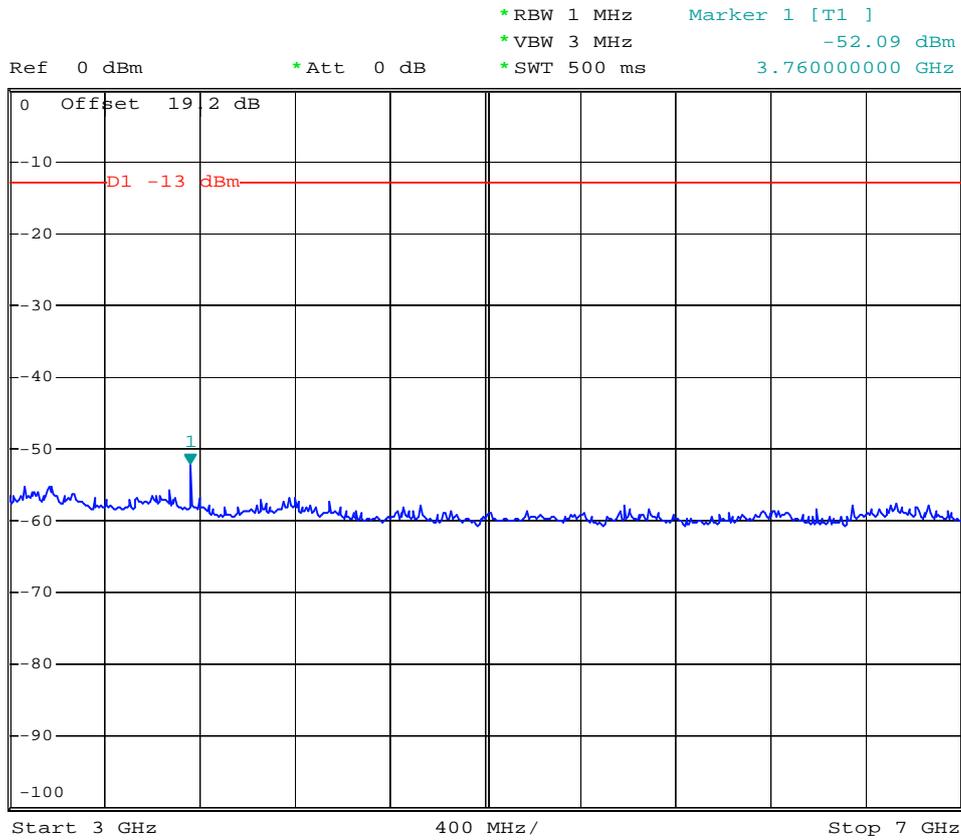
- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 1G-3G



Date: 12.JAN.2007 20:00:04



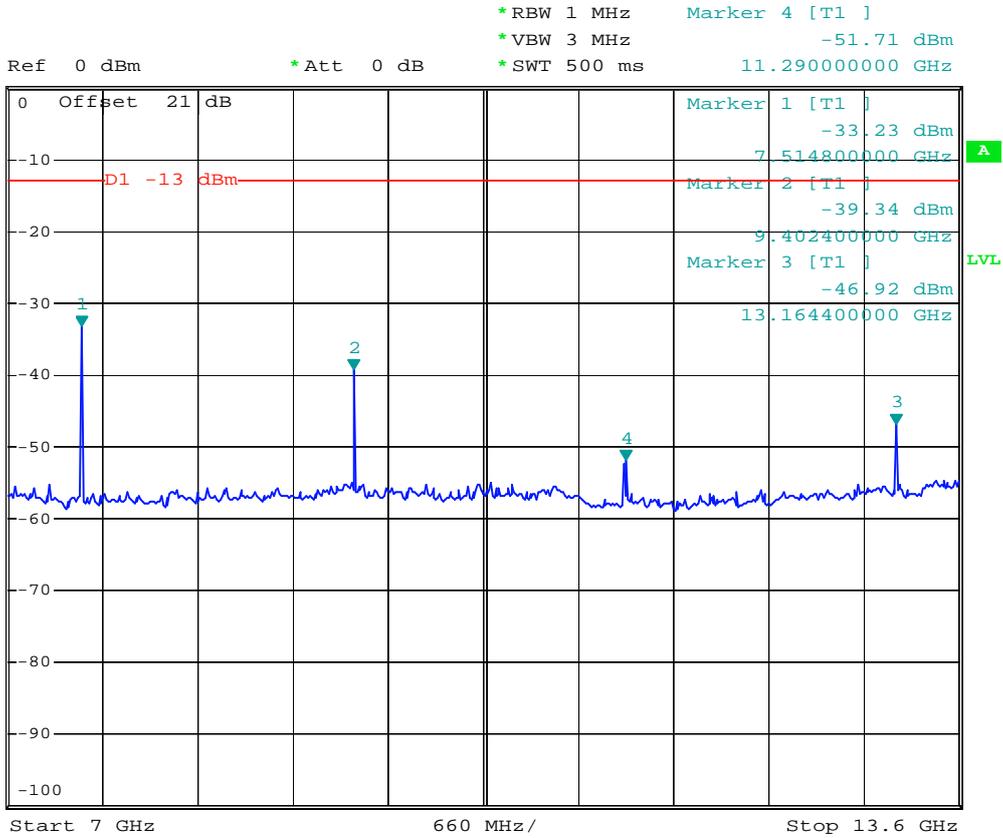
- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 3G-7G



Date: 12.JAN.2007 20:01:01



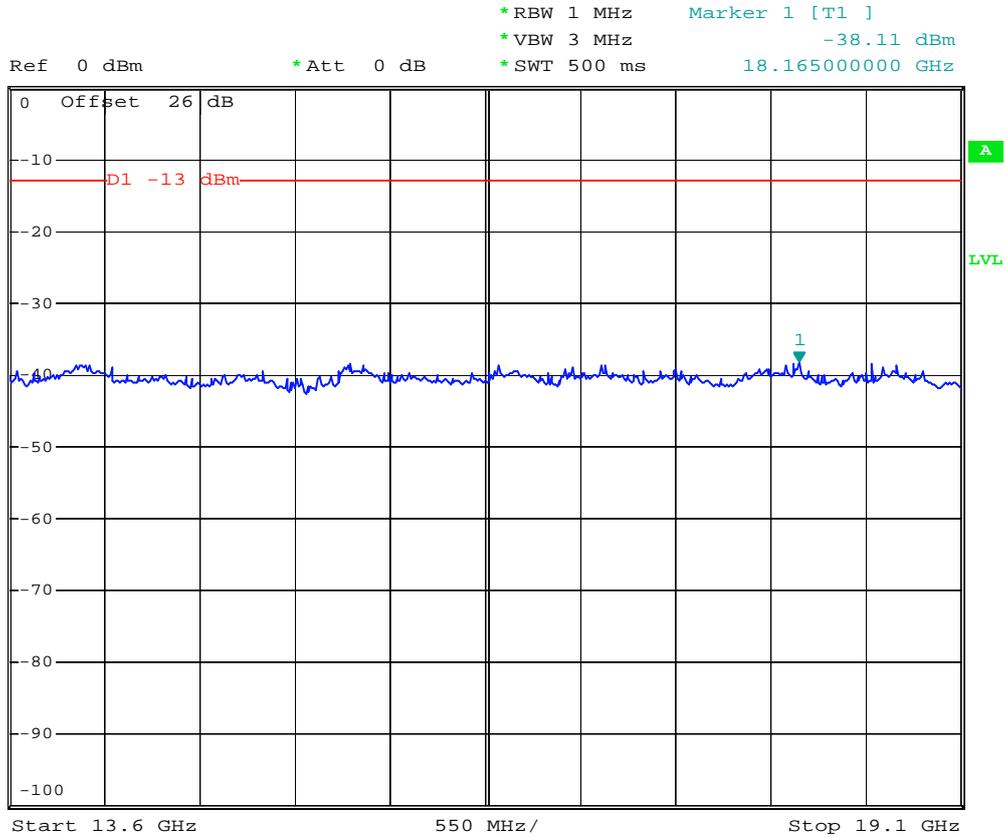
- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 7G-13.6G



Date: 12.JAN.2007 20:02:17



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



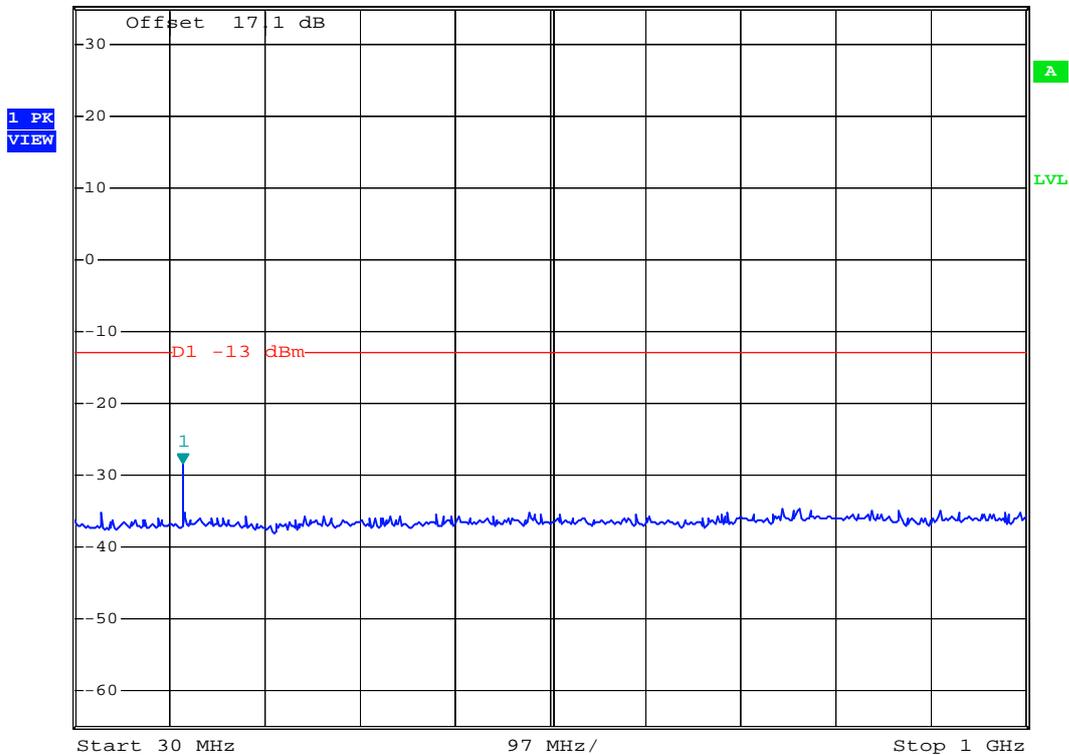
Date: 12.JAN.2007 20:03:12



- Mode 4
- Test Mode : PCS1900 (EDGE) CH661
- Frequency Range : 30M-1G



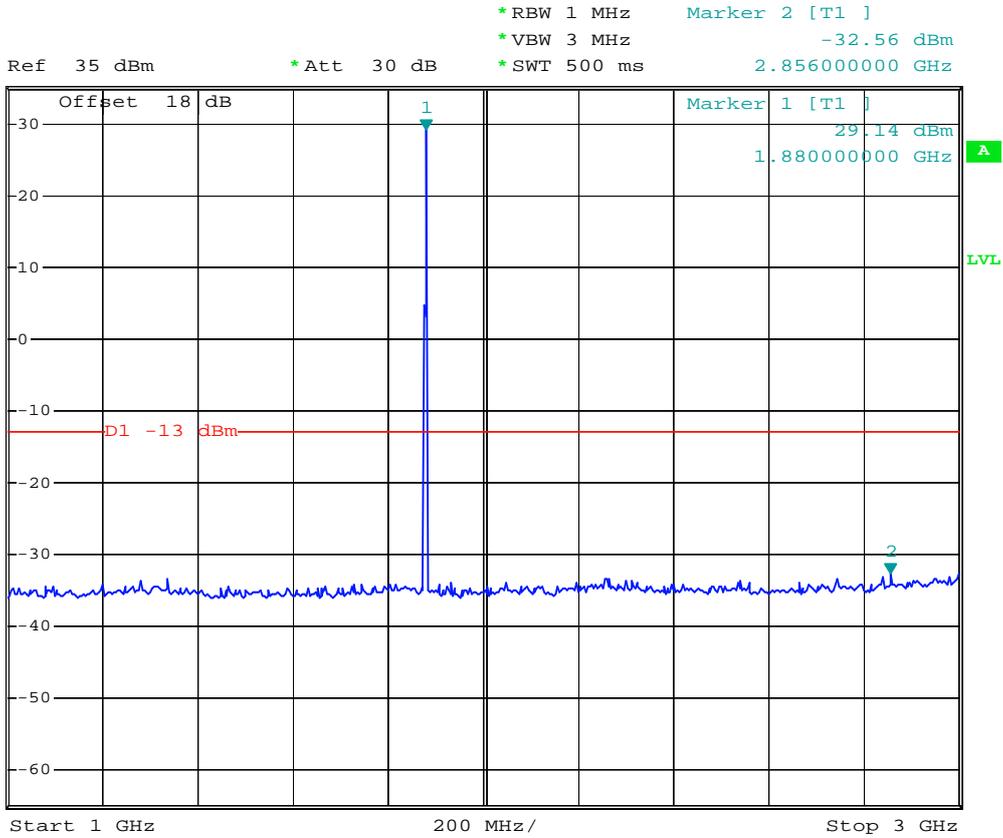
Ref 35 dBm * Att 30 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -28.41 dBm
* SWT 500 ms 140.580000000 MHz



Date: 15.JAN.2007 11:29:40



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



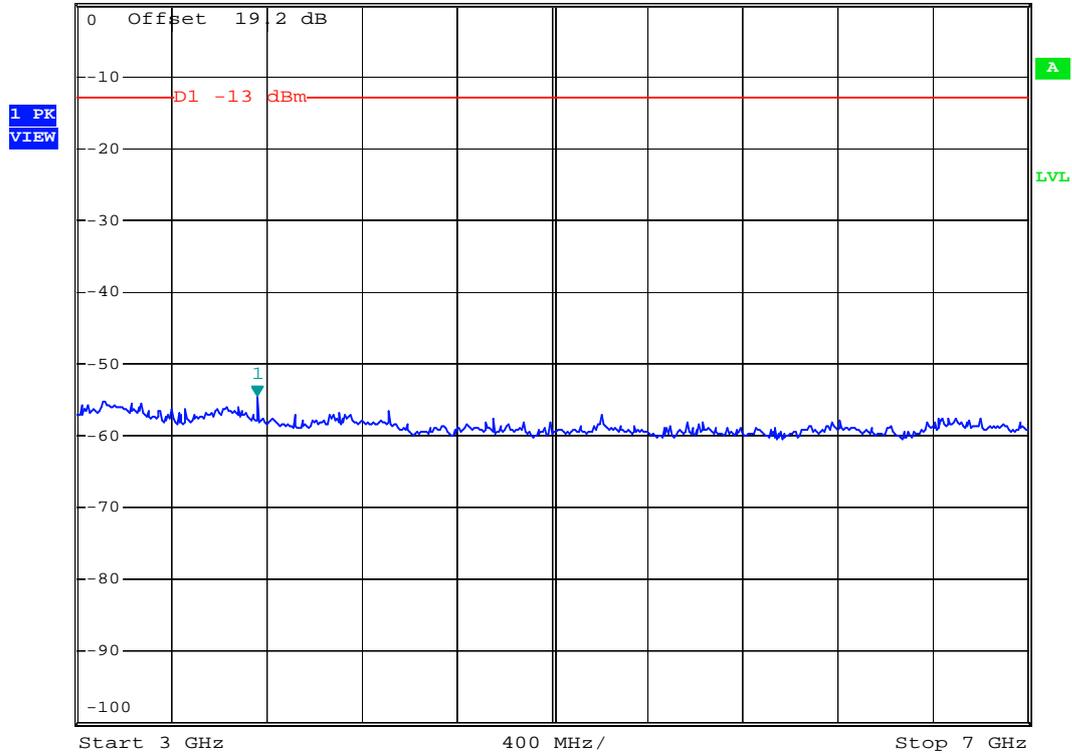
Date: 15.JAN.2007 11:31:04



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



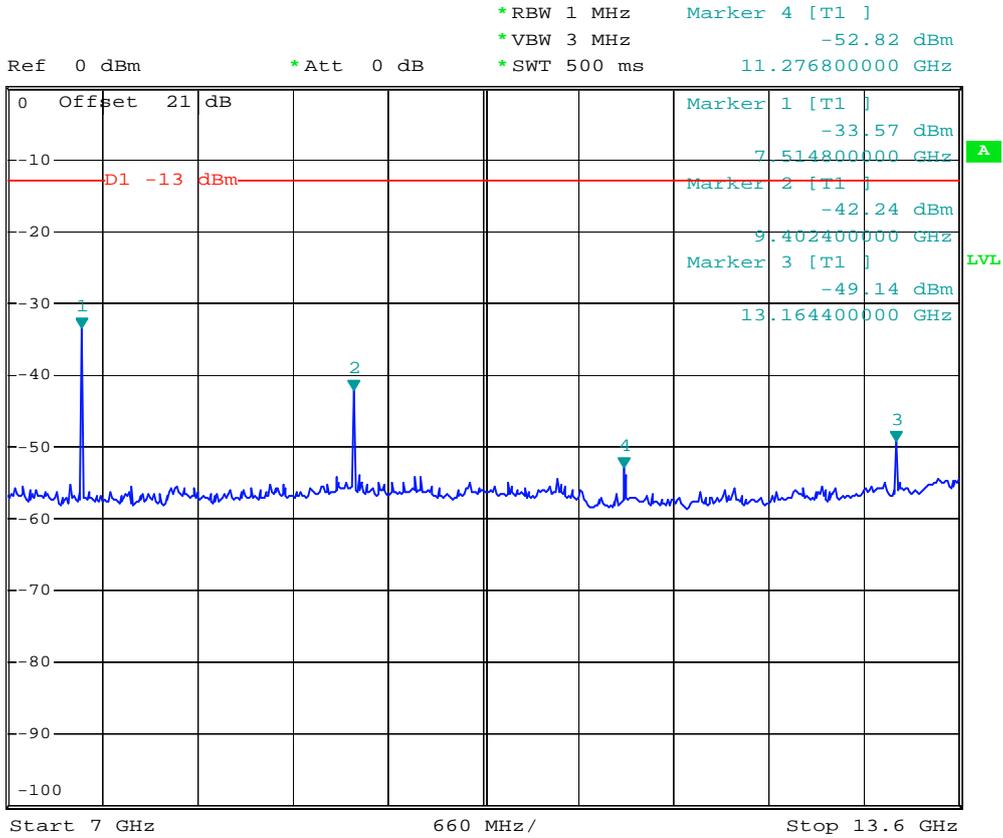
Ref 0 dBm *Att 0 dB *RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -54.45 dBm
*SWT 500 ms 3.760000000 GHz



Date: 15.JAN.2007 11:31:42



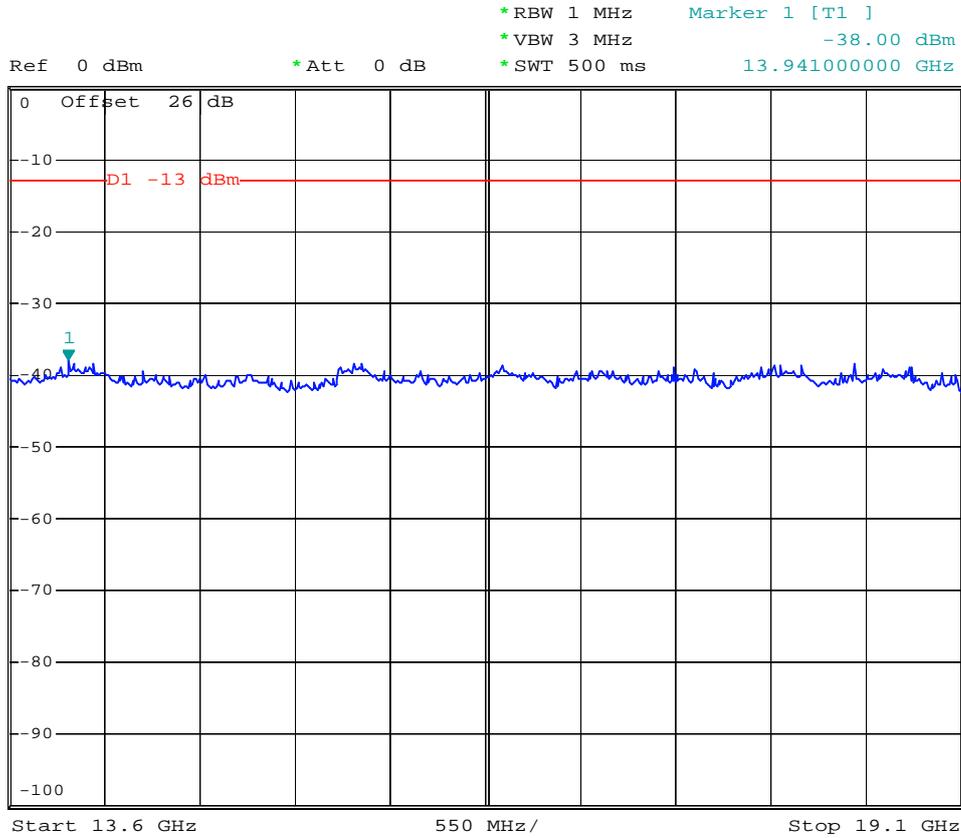
- Test Mode : PCS1900 (EDGE) CH661
- Frequency Range : 7G-13.6G



Date: 15.JAN.2007 11:33:10



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



Date: 15.JAN.2007 11:34:26

4.6 Field Strength of Spurious Radiation

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

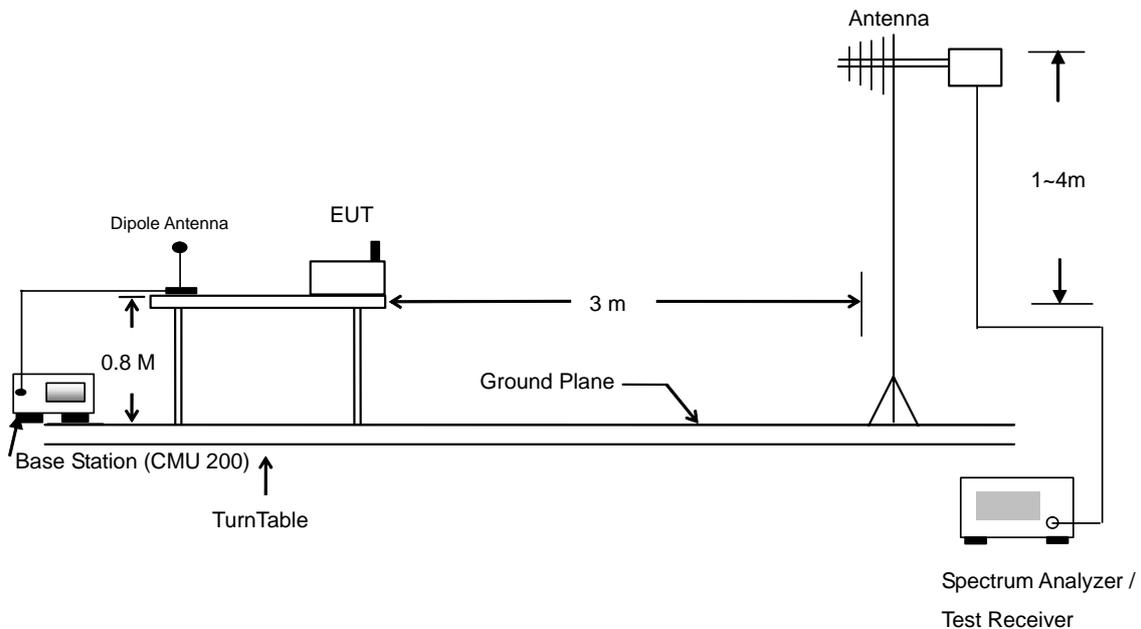
4.6.1 Measurement Instruments

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 record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. Emission level (dBm) = output power + substitution 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)
30.000	-52.030	-13	-39.03	59.430	-53.910	-13	-40.91
97.230	-58.570	-13	-45.57	75.090	-54.540	-13	-41.54
103.440	-60.160	-13	-47.16	153.390	-59.380	-13	-46.38
995.800	-47.690	-13	-34.69	995.800	-54.040	-13	-41.04
1674.000	-51.030	-13	-38.03	1674.000	-58.370	-13	-45.37
2508.000	-51.970	-13	-38.97	2508.000	-48.660	-13	-35.66

- 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)
31.080	-59.330	-13	-46.33	30.540	-54.670	-13	-41.67
59.430	-54.690	-13	-41.69	61.590	-52.320	-13	-39.32
88.590	-57.380	-13	-44.38	156.630	-51.900	-13	-38.90
995.800	-56.830	-13	-43.83	302.800	-65.450	-13	-52.45
1674.000	-56.540	-13	-43.54	1674.000	-58.010	-13	-45.01
2508.000	-56.820	-13	-43.82	2508.000	-55.530	-13	-42.53
				2658.000	-55.770	-13	-42.77



- 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)
83.730	-55.350	-13	-42.35	31.080	-53.450	-13	-40.45
229.530	-56.200	-13	-43.20	59.430	-47.650	-13	-34.65
282.180	-57.870	-13	-44.87	154.740	-50.720	-13	-37.72
304.900	-60.070	-13	-47.07	301.400	-63.120	-13	-50.12
439.300	-66.160	-13	-53.16	427.400	-64.930	-13	-51.93
1000.000	-64.060	-13	-51.06	897.800	-61.530	-13	-48.53
1718.000	-55.660	-13	-42.66	1718.000	-55.650	-13	-42.65
7518.000	-41.680	-13	-28.68	3758.000	-52.690	-13	-39.69
9398.000	-35.870	-13	-22.87	5638.000	-53.180	-13	-40.18
11278.000	-37.540	-13	-24.54	7518.000	-45.700	-13	-32.70
				9398.000	-31.310	-13	-18.31
				11278.000	-36.490	-13	-23.49

- 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)
60.240	-50.660	-13	-37.66	73.740	-55.890	-13	-42.89
89.130	-52.610	-13	-39.61	172.290	-57.600	-13	-44.60
291.090	-50.420	-13	-37.42	259.230	-64.700	-13	-51.70
323.800	-68.880	-13	-55.88	826.400	-62.170	-13	-49.17
894.300	-64.520	-13	-51.52	868.400	-61.390	-13	-48.39
950.300	-64.100	-13	-51.10	957.300	-61.680	-13	-48.68
5638.000	-51.020	-13	-38.02	1718.000	-57.140	-13	-44.14
7518.000	-45.220	-13	-32.22	3758.000	-52.400	-13	-39.40
9398.000	-31.190	-13	-18.19	5638.000	-53.020	-13	-40.02
11278.000	-36.970	-13	-23.97	7518.000	-46.760	-13	-33.76
				9398.000	-35.810	-13	-22.81
				11278.000	-44.620	-13	-31.62



- Test Mode : Mode 5

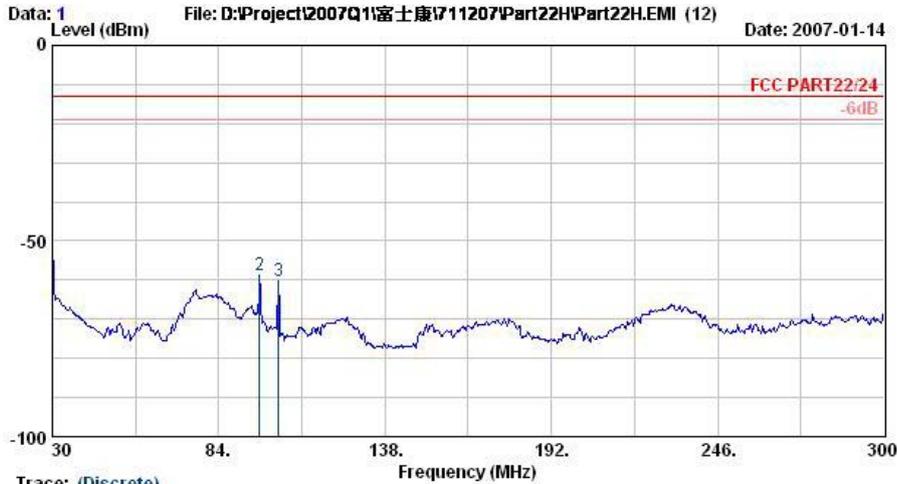
GSM850 (GSM) with Bluetooth Co-location Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
77.790	-59.420	-13	-46.42	58.890	-54.770	-13	-41.77
146.640	-64.050	-13	-51.05	149.880	-63.040	-13	-50.04
226.290	-67.140	-13	-54.14	234.930	-59.330	-13	-46.33
995.800	-51.930	-13	-38.93	995.800	-52.400	-13	-39.40
1674.000	-54.500	-13	-41.50	1674.000	-59.150	-13	-46.15
2508.000	-58.030	-13	-45.03	2508.000	-55.100	-13	-42.10
4178.000	-52.930	-13	-39.93	4828.000	-52.110	-13	-39.11



4.6.5 Test Data

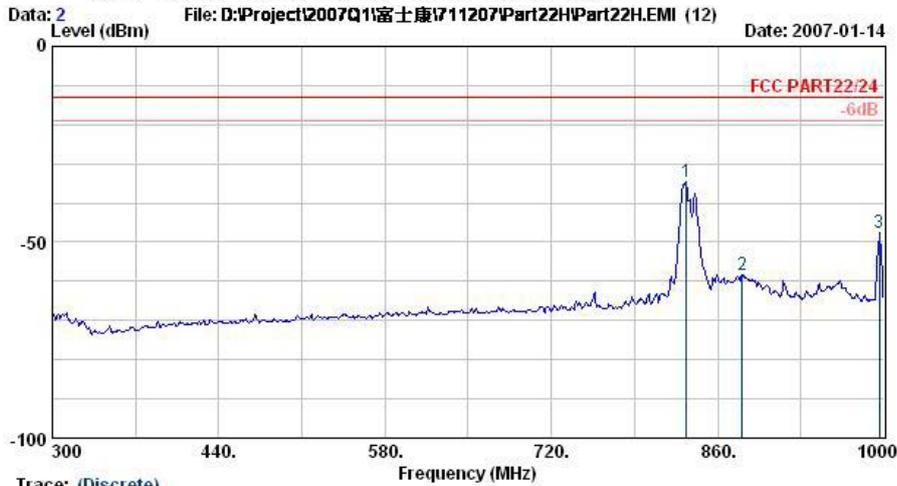
4.6.5.1 Mode 1

Horizontal Polarization



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Wac/60Hz
 Model : FG711207
 Mode : GSM850 Link;CH189+Esaphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	30.0	-52.03	-39.03	-13.00	-52.39	0.36	Peak
2	97.2	-58.57	-45.57	-13.00	-46.31	-12.25	Peak
3	103.4	-60.16	-47.16	-13.00	-47.88	-12.28	Peak



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Wac/60Hz
 Model : FG711207
 Mode : GSM850 Link;CH189+Esaphone+Adaptor
 Plane : E1

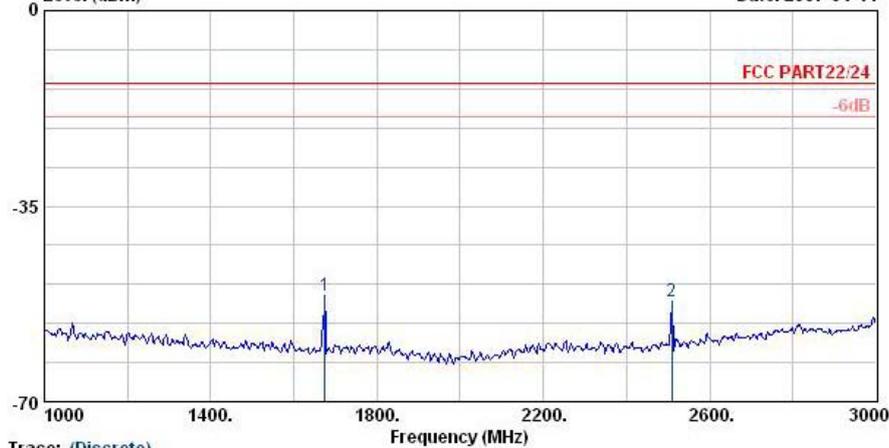
	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	833.4	-34.70			-33.33	-1.37	Peak
2	880.3	-58.21			-57.29	-0.91	Peak
3 @	995.8	-47.69	-34.69	-13.00	-47.90	0.20	Peak

Remark:

- #1: MS Signal
- #2: BS Signal



Data: 3 File: D:\Project\2007Q1\富士康\711207\Part22H\Part22H.EMI (12) Date: 2007-01-14

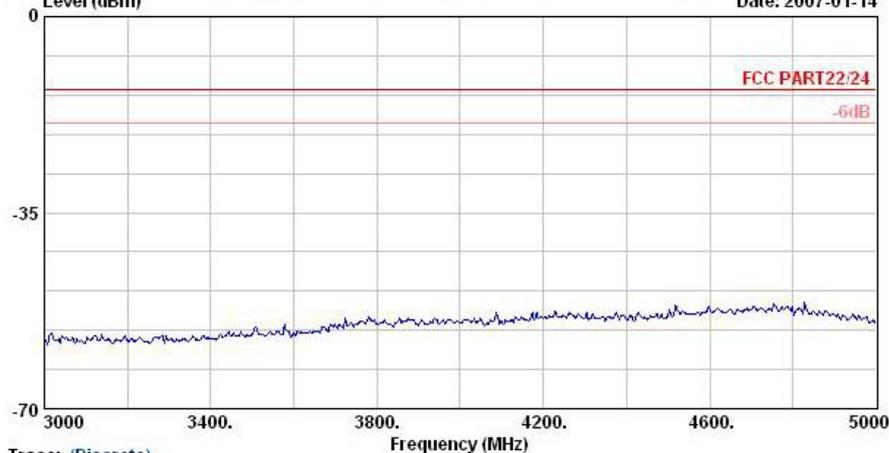


Trace: (Discrete)

Site : 08CHO6-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : GSM850 Link;CH189+Earpicme+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1 @	1674.0	-51.03	-38.03	-13.00	-51.26	0.22	Peak
2 @	2508.0	-51.97	-38.97	-13.00	-53.17	1.20	Peak

Data: 4 File: D:\Project\2007Q1\富士康\711207\Part22H\Part22H.EMI (12) Date: 2007-01-14

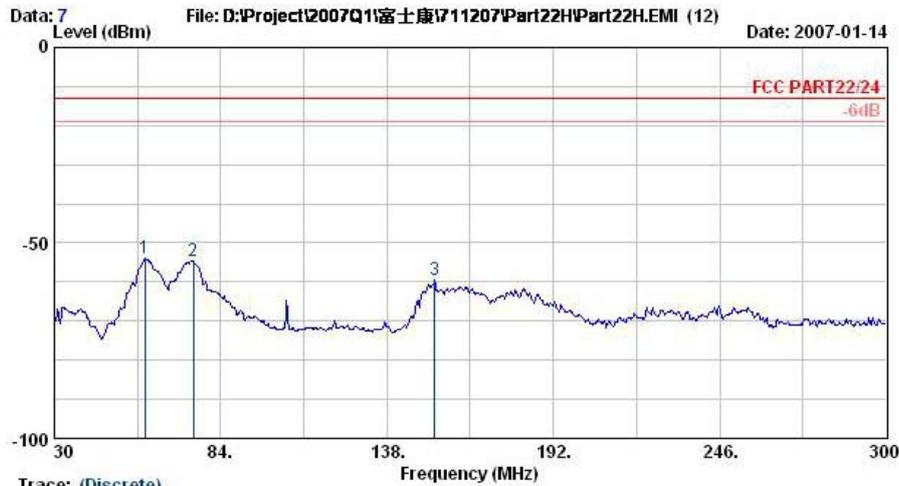


Trace: (Discrete)

Site : 08CHO6-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : GSM850 Link;CH189+Earpicme+Adaptor
 Plane : E1

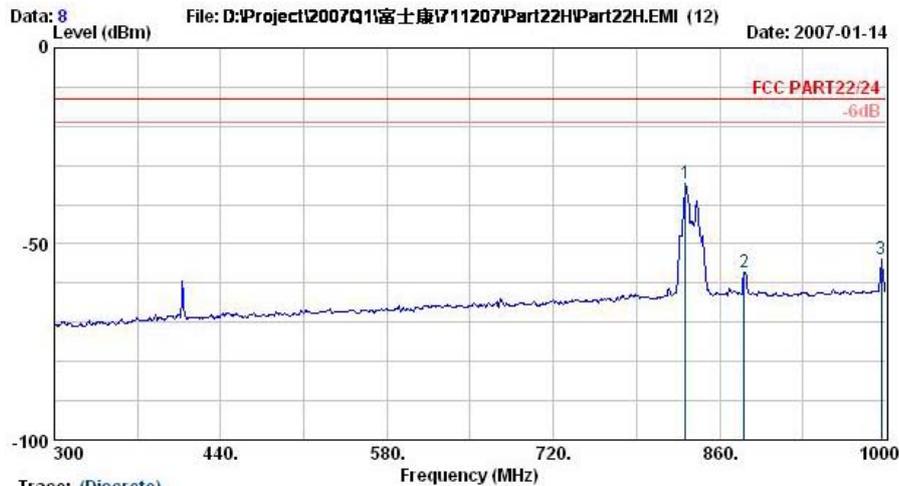


Vertical Polarization



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LP-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120V_{ac}/60Hz
 Model : FG711207
 Mode : GSM850 Link;CH189+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	Limit	Line	Level	dB	
1	59.4	-53.91	-40.91	-13.00	-40.34	-13.56	Peak
2	75.1	-54.54	-41.54	-13.00	-43.22	-11.32	Peak
3	153.4	-59.38	-46.38	-13.00	-51.21	-8.17	Peak



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LP-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120V_{ac}/60Hz
 Model : FG711207
 Mode : GSM850 Link;CH189+Earphone+Adaptor
 Plane : E1

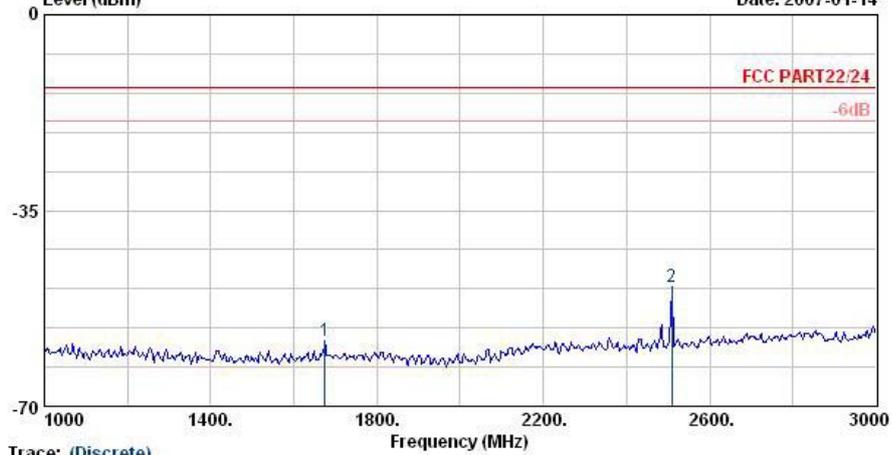
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBm	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBm	dBm	dB	dB	dB	cm	deg	
1 @	831.3	-34.76			-36.07	1.32	0.00	0.00	---	---	Peak
2	880.3	-57.19			-58.90	1.71	0.00	0.00	---	---	Peak
3	995.8	-54.04	-41.04	-13.00	-56.67	2.63	0.00	0.00	---	---	Peak

Remark:

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



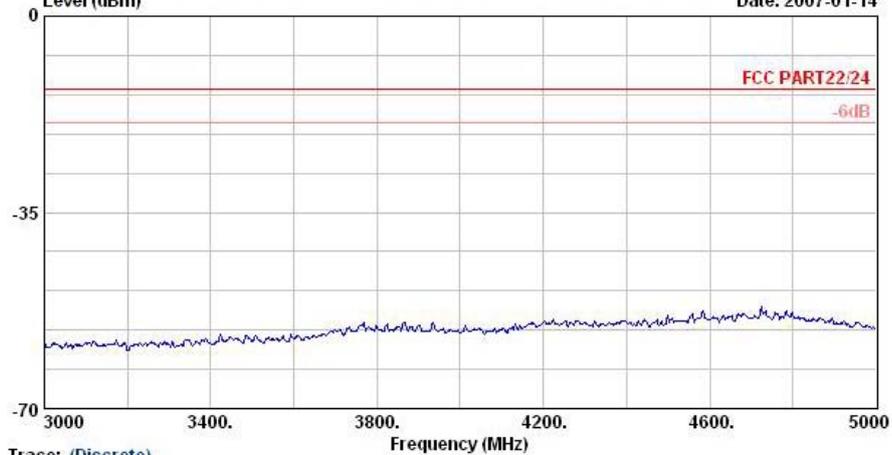
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Trace: (Discrete)
Site : 03CH06-HY
Condition : HF-SFURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG711207
Mode : GSM850 Link;CH189+Earphone+Adaptor
Plane : E1

Table with columns: Freq (MHz), Level (dBm), Over Limit (dB), Limit Line (dBm), Read Level (dBm), Factor (dB), Remark. Contains two rows of peak data.

Data: 10 Level (dBm) File: D:\Project\2007Q1\富士康\711207\Part22H\Part22H.EMI (12) Date: 2007-01-14

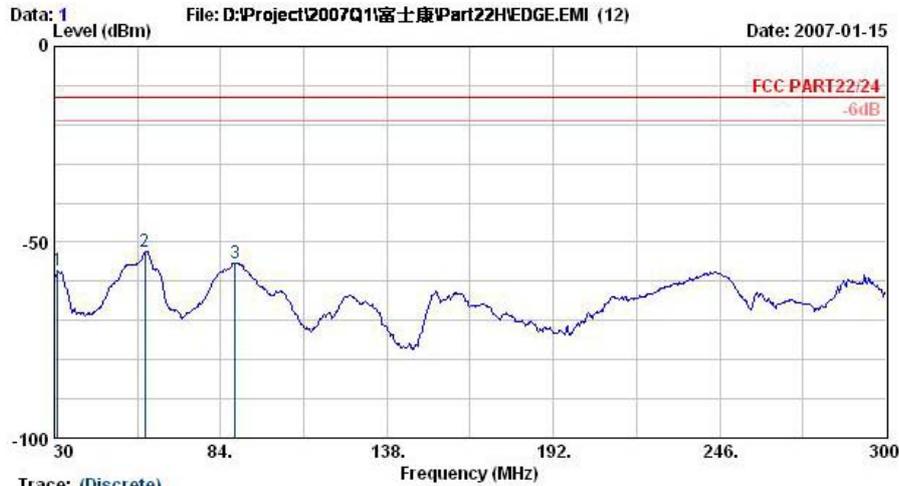


Trace: (Discrete)
Site : 03CH06-HY
Condition : HF-SFURIOUS VERTICAL
EUT : GSM/GPRS/EDGE Mobile Phone
Power : 120Vac/60Hz
Model : FG711207
Mode : GSM850 Link;CH189+Earphone+Adaptor
Plane : E1

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

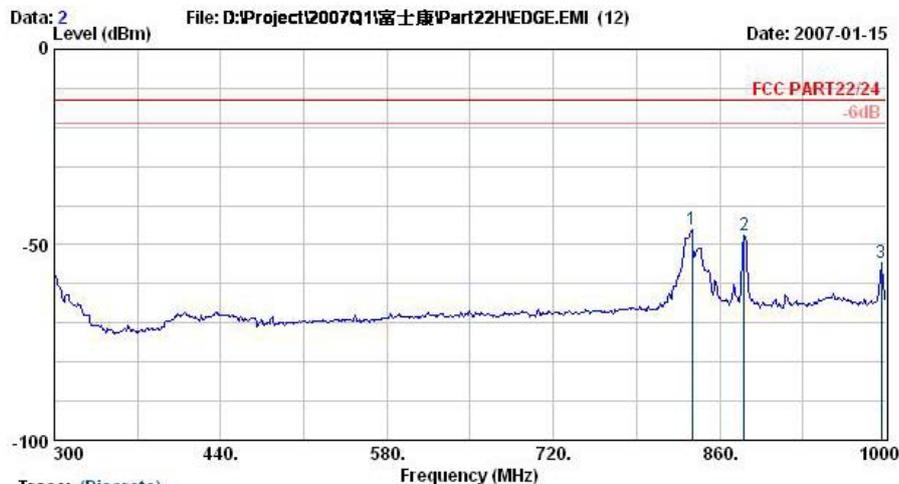


4.6.5.2 Mode 2
Horizontal Polarization



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LP-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

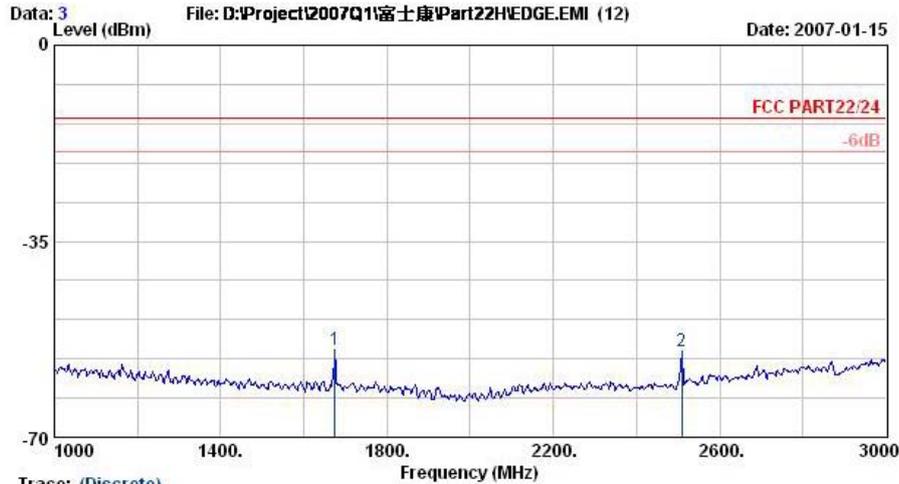
	Freq MHz	Level dBm	Over Limit dB	Limit Line dBm	Read Level dBm	Factor dB	Remark
1	31.1	-57.18	-44.18	-13.00	-56.93	-0.25	Peak
2 @	59.4	-52.54	-39.54	-13.00	-40.14	-12.40	Peak
3	88.6	-55.23	-42.23	-13.00	-42.95	-12.28	Peak



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LP-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

	Freq MHz	Level dBm	Over Limit dB	Limit Line dBm	Read Level dBm	Factor dB	Remark
1 @	836.9	-46.00			-44.67	-1.33	Peak
2 @	880.3	-47.71			-46.80	-0.91	Peak
3	995.8	-54.68	-41.68	-13.00	-54.88	0.20	Peak

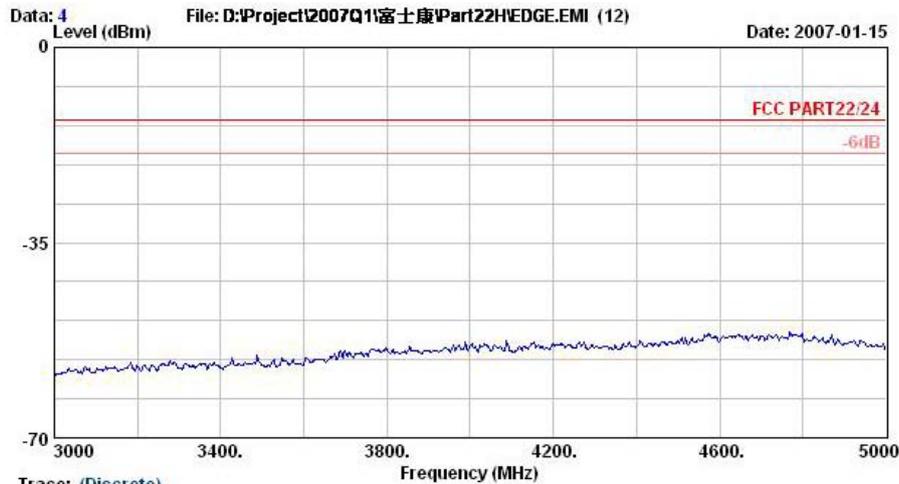
Remark:
 1. #1: MS Signal
 2. #2: BS Signal



Trace: (Discrete)

Site : 08CHO6-HY
 Condition : HF-SFURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Exaphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1	1674.0	-54.39	-41.39	-13.00	-54.61	0.22	Peak
2	2508.0	-54.67	-41.67	-13.00	-55.87	1.20	Peak

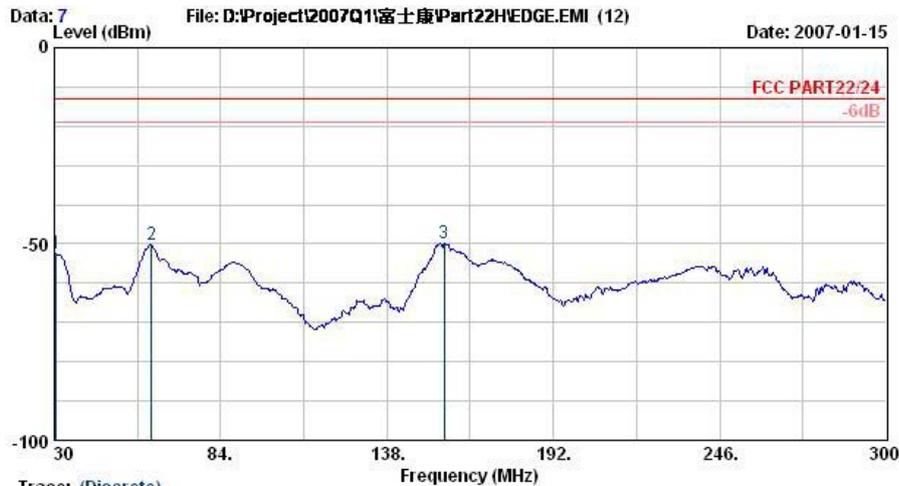


Trace: (Discrete)

Site : 08CHO6-HY
 Condition : HF-SFURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Exaphone+Adaptor
 Plane : E1



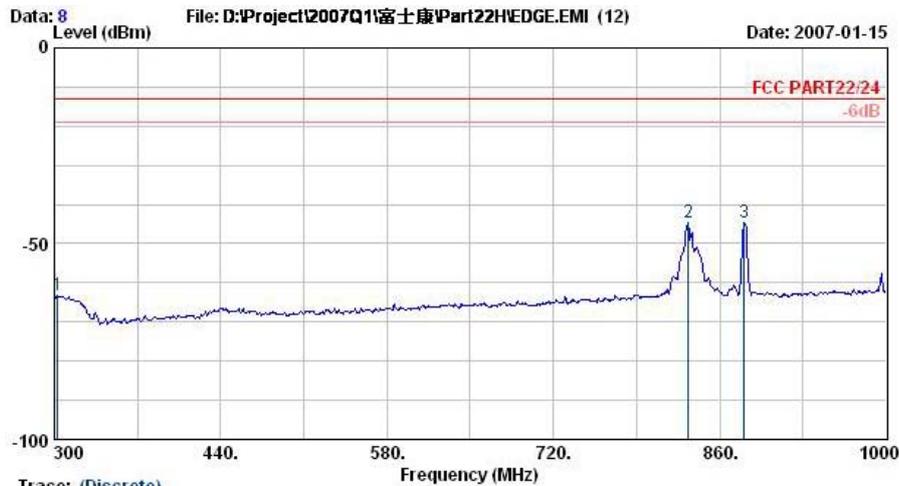
Vertical Polarization



Site : 08CHO6-HY
 Condition : LF-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120V_{ac}/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

Trace: (Discrete)

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	30.5	-52.52	-39.52	-13.00	-43.18	-9.34	Peak
2 @	61.6	-50.17	-37.17	-13.00	-37.03	-13.14	Peak
3 @	156.6	-49.75	-36.75	-13.00	-41.54	-8.21	Peak



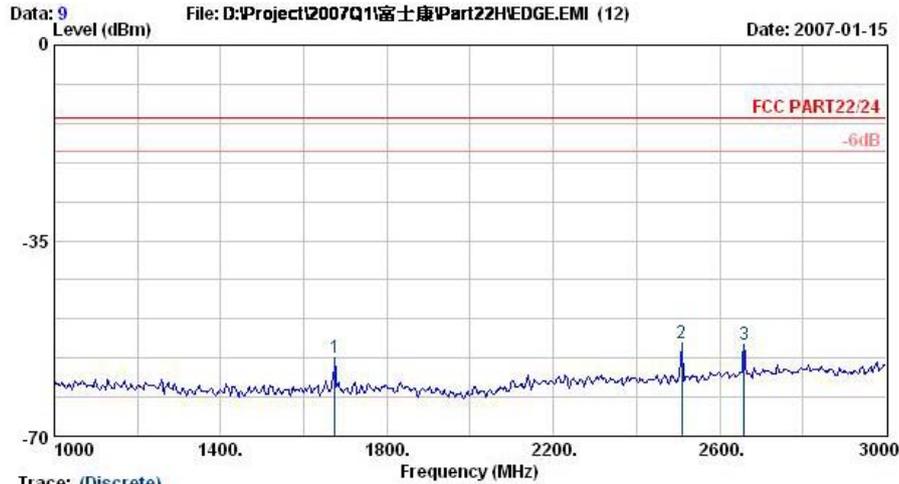
Site : 08CHO6-HY
 Condition : LF-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120V_{ac}/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

Trace: (Discrete)

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	302.8	-63.30	-50.30	-13.00	-56.90	-6.40	Peak
2 @	833.4	-44.73			-46.06	1.33	Peak
3 @	880.3	-44.66			-46.37	1.71	Peak

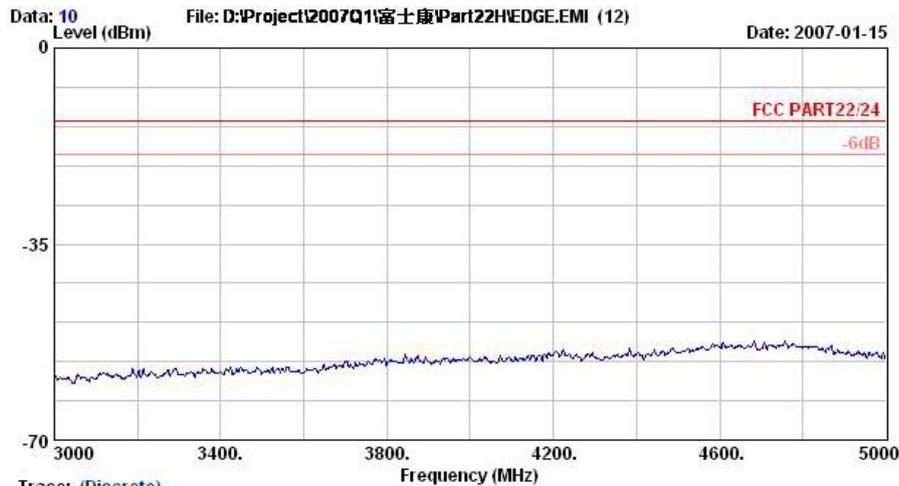
Remark:

- #2: MS Signal
- #3: BS Signal



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : HF-SFURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

	Freq MHz	Level dBm	Over Limit dB	Limit Line dBm	Read Level dBm	Factor dB	Remark
1	1674.0	-55.86	-42.86	-13.00	-55.38	-0.48	Peak
2	2508.0	-53.38	-40.38	-13.00	-55.65	2.27	Peak
3	2658.0	-53.62	-40.62	-13.00	-56.33	2.71	Peak

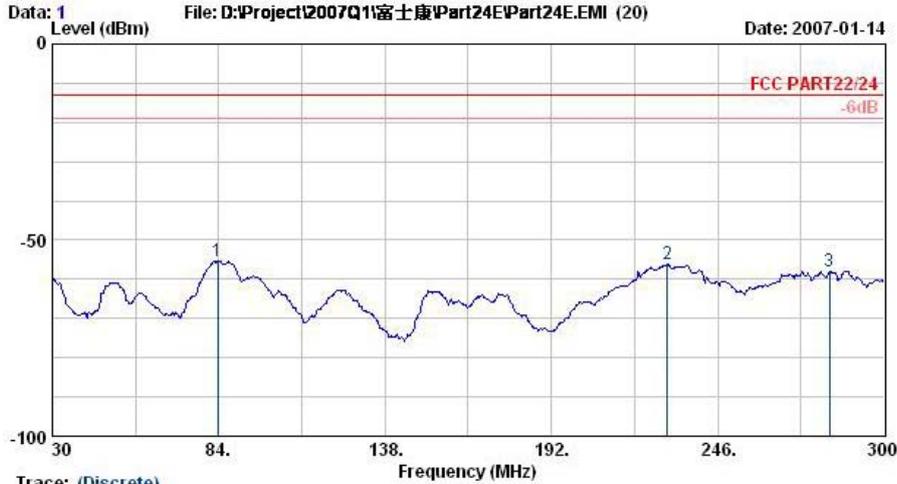


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : HF-SFURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

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

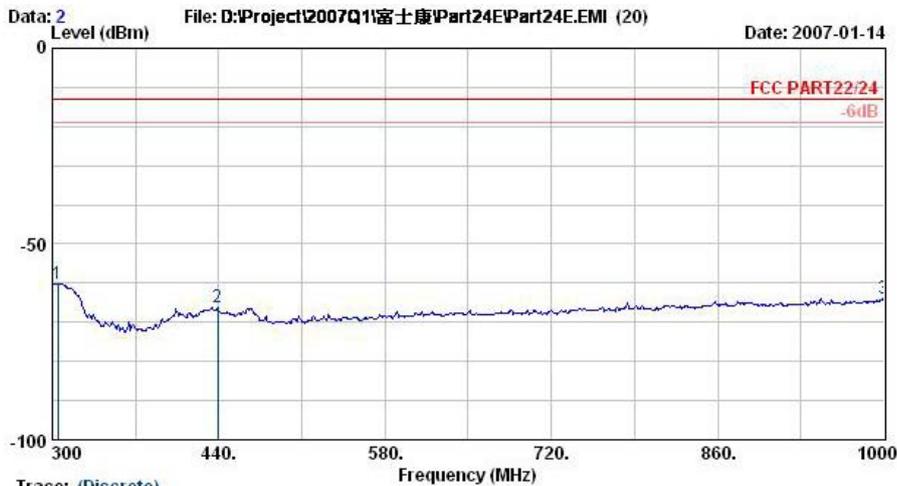


4.6.5.3 Mode 3
Horizontal Polarization



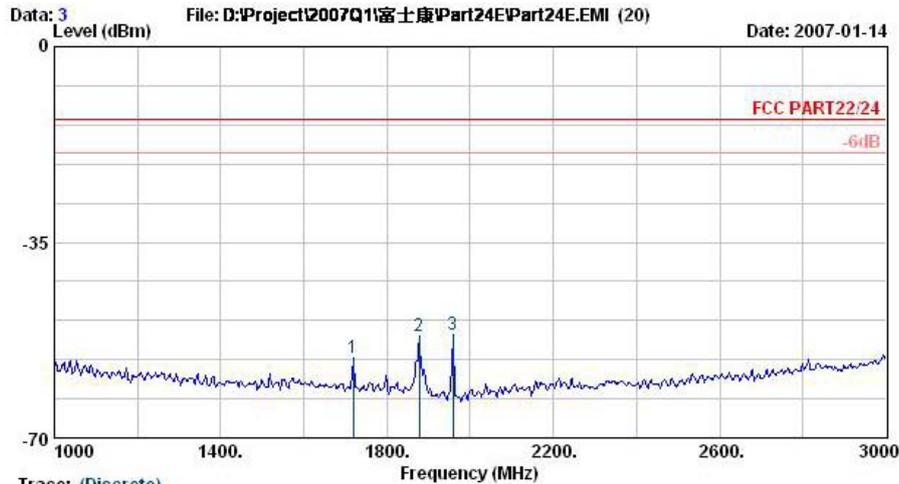
Site : 08CH06-HY
 Condition : LF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

	Freq MHz	Level dBm	Over Limit dB	Limit Line dBm	Read Level dBm	Factor dB	Remark
1 @	83.7	-55.35	-42.35	-13.00	-43.05	-12.30	Peak
2	229.5	-56.20	-43.20	-13.00	-43.84	-12.35	Peak
3	282.2	-57.87	-44.87	-13.00	-47.32	-10.55	Peak



Site : 08CH06-HY
 Condition : LF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

	Freq MHz	Level dBm	Over Limit dB	Limit Line dBm	Read Level dBm	Factor dB	Remark
1	304.9	-60.07	-47.07	-13.00	-50.30	-9.78	Peak
2	439.3	-66.16	-53.16	-13.00	-60.21	-5.95	Peak
3	1000.0	-64.06	-51.06	-13.00	-64.30	0.24	Peak



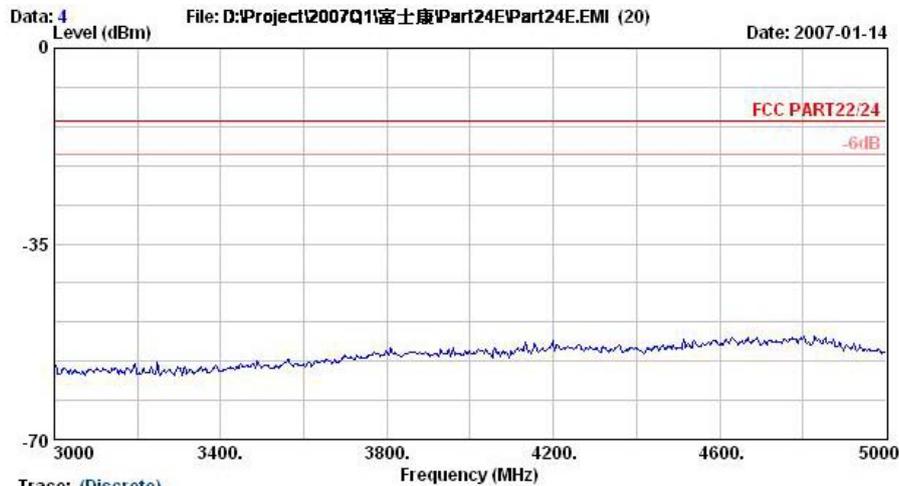
Trace: (Discrete)

Site : 08CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1	1718.0	-55.66	-42.66	-13.00	-55.74	0.08	Peak
2 @	1878.0	-51.91			-51.40	-0.51	Peak
3 @	1958.0	-51.42			-50.31	-1.11	Peak

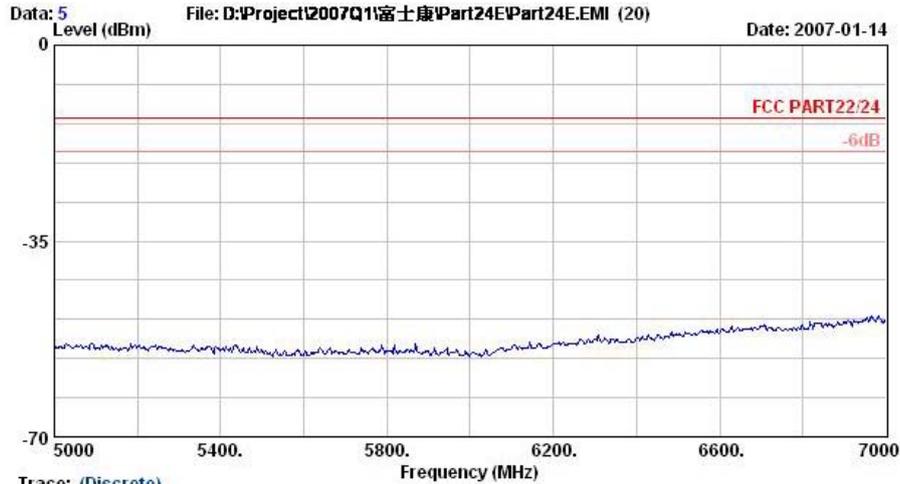
Remark:

- #2: MS Signal
- #3: BS Signal

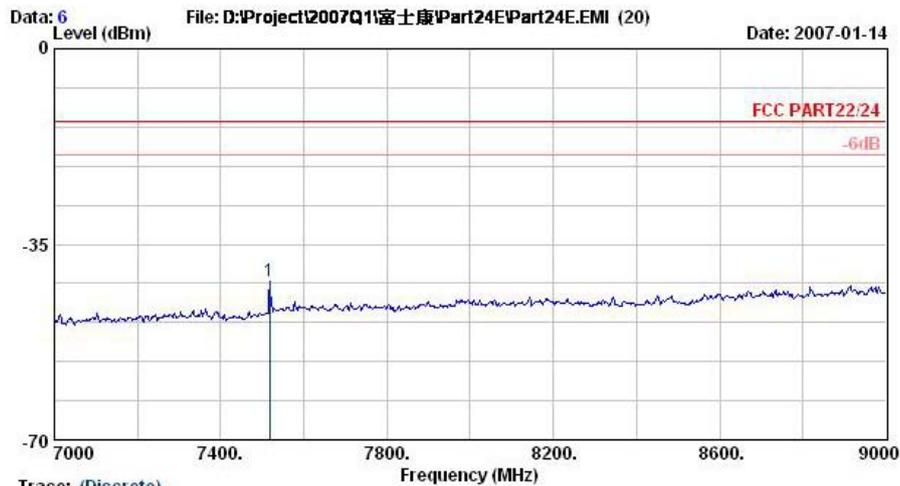


Trace: (Discrete)

Site : 08CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

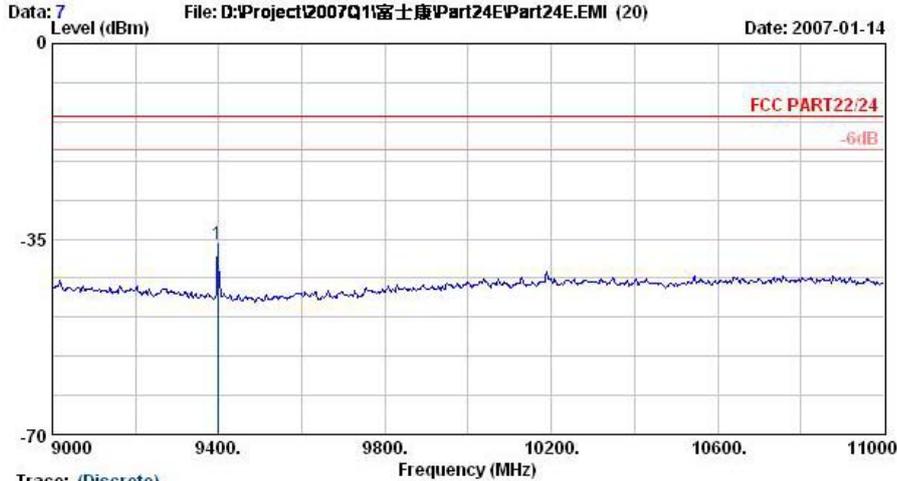


Trace: (Discrete)
 Site : 09CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120V_{ac}/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1



Trace: (Discrete)
 Site : 09CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120V_{ac}/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

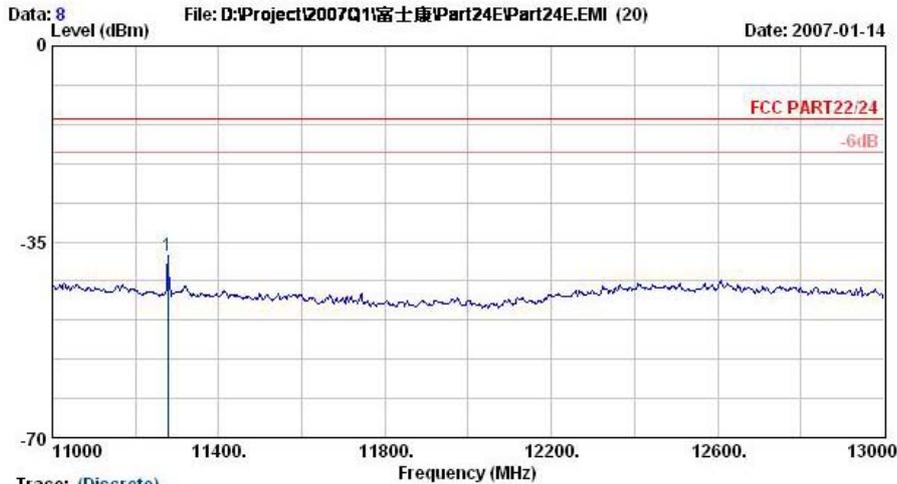
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	7518.0	-41.68	-28.68	-13.00	-57.48	15.80	Peak



Trace: (Discrete)

Site : 08CH06-HY
 Condition : HF-SFURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	dB	dBm	dBm	dB
1 @	9398.0	-35.87	-22.87	-13.00	-54.09	18.22 Peak



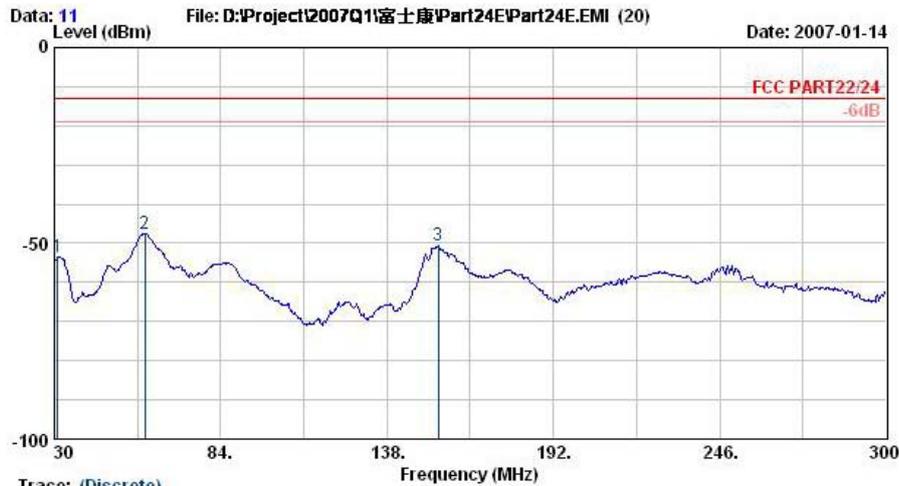
Trace: (Discrete)

Site : 08CH06-HY
 Condition : HF-SFURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	dB	dBm	dBm	dB
1 @	11278.0	-37.54	-24.54	-13.00	-57.84	20.30 Peak

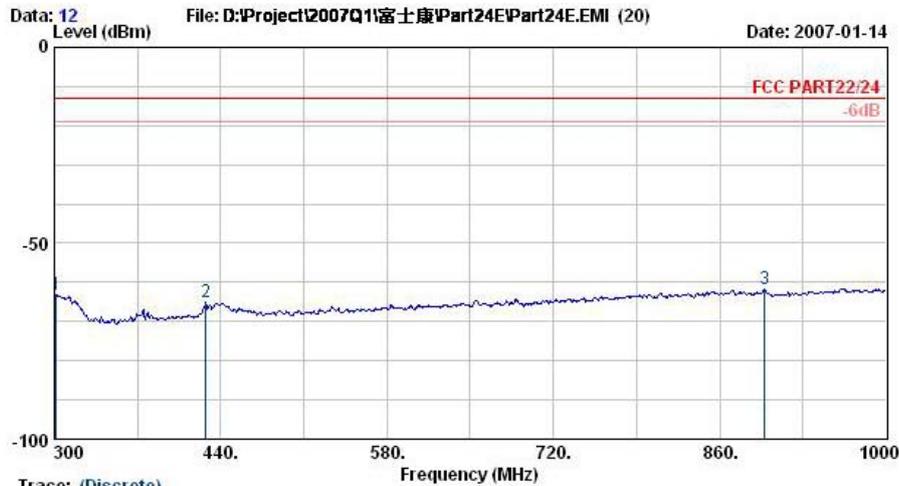


Vertical Polarization



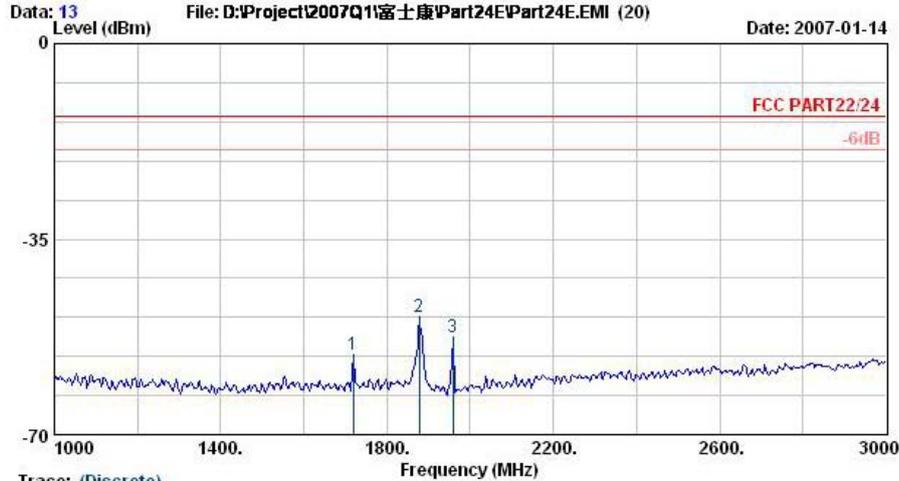
Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LP-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	31.1	-53.45	-40.45	-13.00	-44.11	-9.34	Peak
2 @	59.4	-47.65	-34.65	-13.00	-34.09	-13.56	Peak
3 @	154.7	-50.72	-37.72	-13.00	-42.53	-8.19	Peak



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LP-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	301.4	-63.12	-50.12	-13.00	-56.70	-6.42	Peak
2	427.4	-64.93	-51.93	-13.00	-60.93	-3.99	Peak
3	897.8	-61.53	-48.53	-13.00	-63.38	1.85	Peak

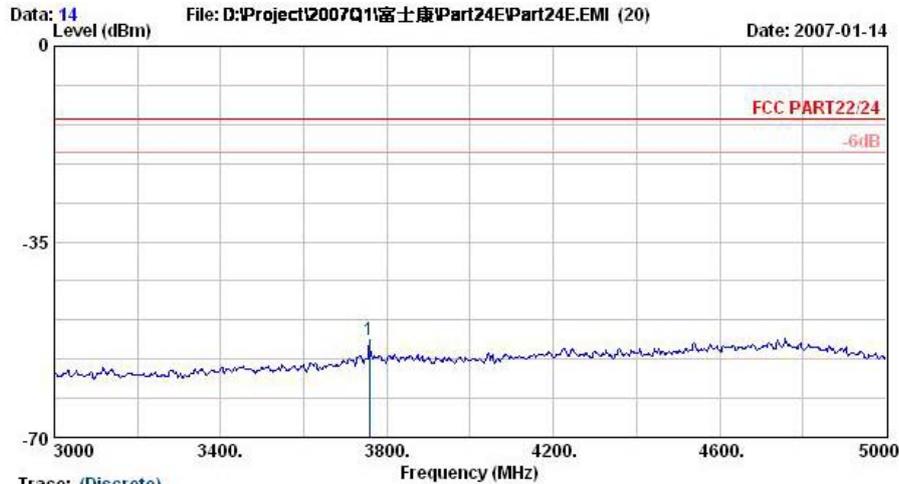


Trace: (Discrete)
 Site : 08CHO6-HY
 Condition : HF-SFURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Wac/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	1718.0	-55.65	-42.65	-13.00	-55.23	-0.42	Peak
2 @	1878.0	-49.04			-48.64	-0.40	Peak
3 @	1958.0	-52.67			-52.07	-0.60	Peak

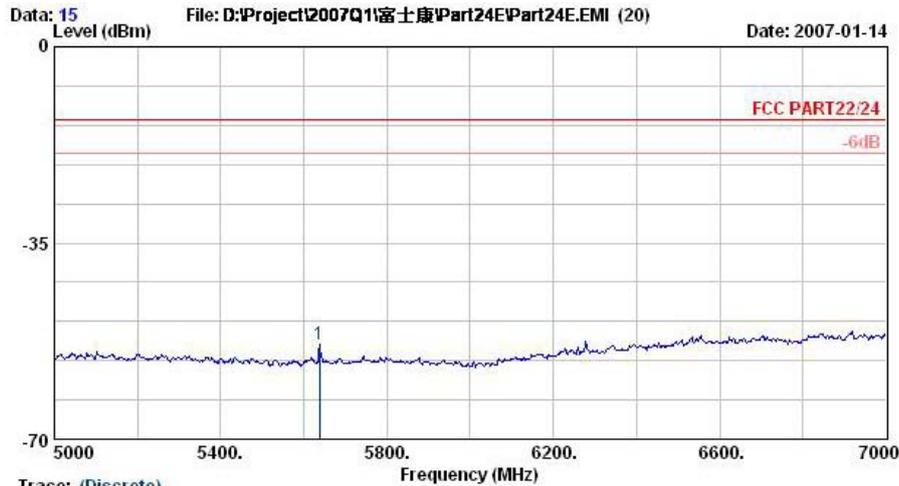
Remark:

- #2: MS Signal
- #3: BS Signal



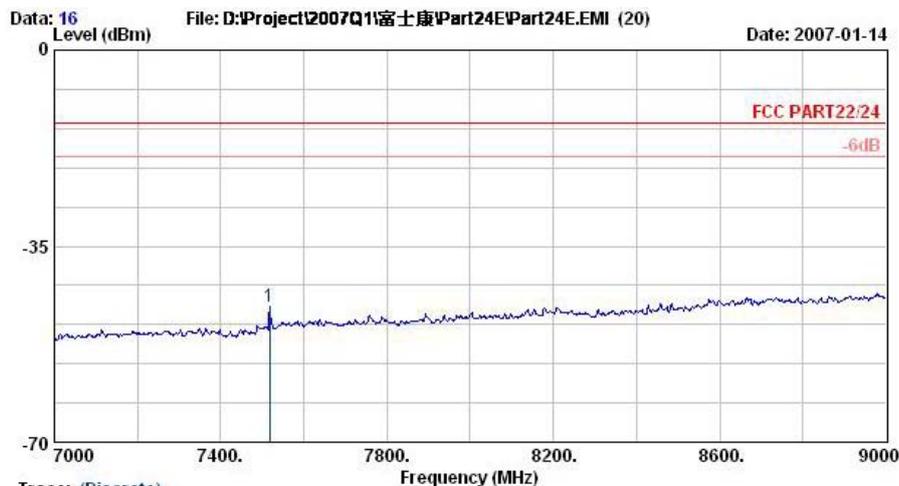
Trace: (Discrete)
 Site : 08CHO6-HY
 Condition : HF-SFURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Wac/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	3758.0	-52.69	-39.69	-13.00	-59.33	6.64	Peak



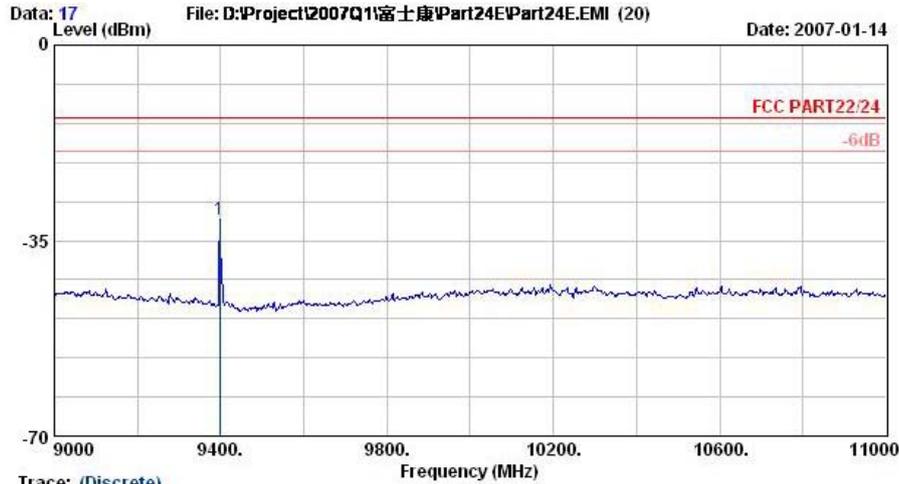
Trace: (Discrete)
 Site : 08CH06-HY
 Condition : HP-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Wac/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	5638.0	-53.18	-40.18	-13.00	-61.83	8.65	Peak



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : HP-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Wac/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

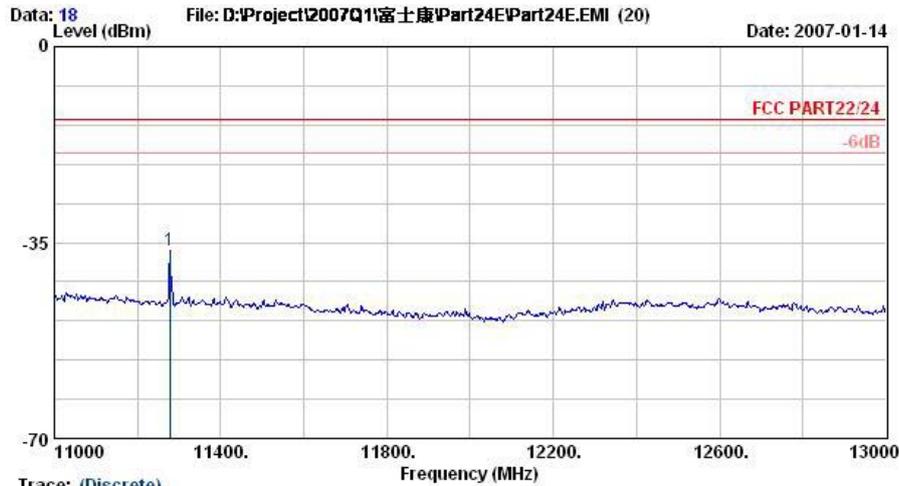
	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	7518.0	-45.70	-32.70	-13.00	-59.06	13.37	Peak



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : HF-SFURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

Freq	Level	Over	Limit	Read	Factor	Remark
MHz	dBm	dB	dBm	dBm	dB	

1 @	9398.0	-31.31	-18.31	-13.00	-48.51	17.20 Peak
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Trace: (Discrete)
 Site : 03CH06-HY
 Condition : HF-SFURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : PCS1900 Link+Earphone+Adaptor
 Plane : E1

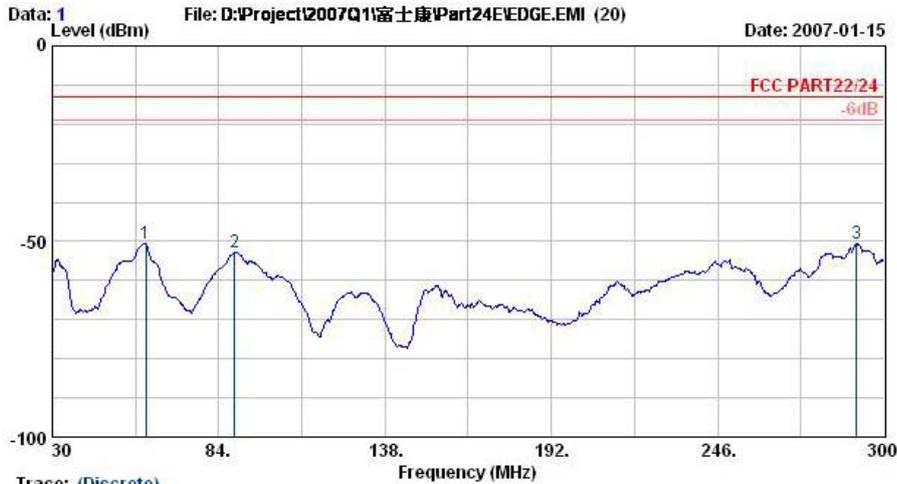
Freq	Level	Over	Limit	Read	Factor	Remark
MHz	dBm	dB	dBm	dBm	dB	

1 @	11278.0	-36.49	-23.49	-13.00	-55.37	18.87 Peak
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Remark : There is no more obvious emission except the listings above.

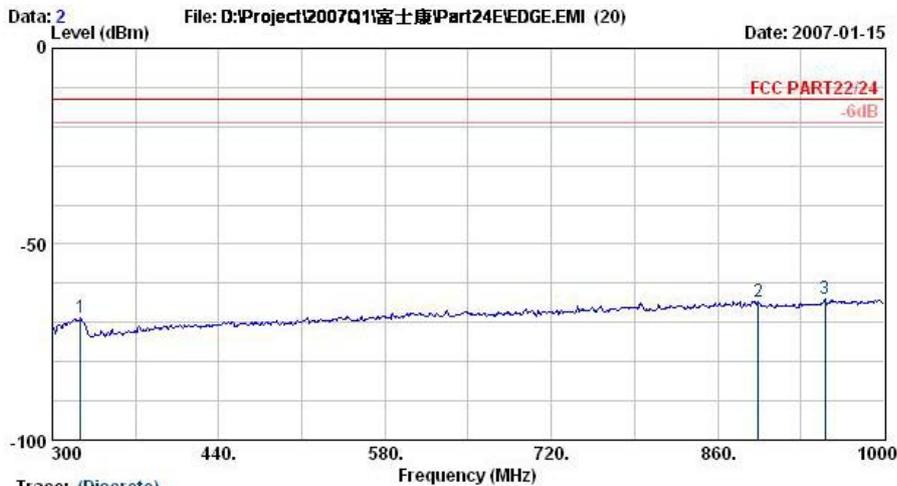


4.6.5.4 Mode 4
Horizontal Polarization



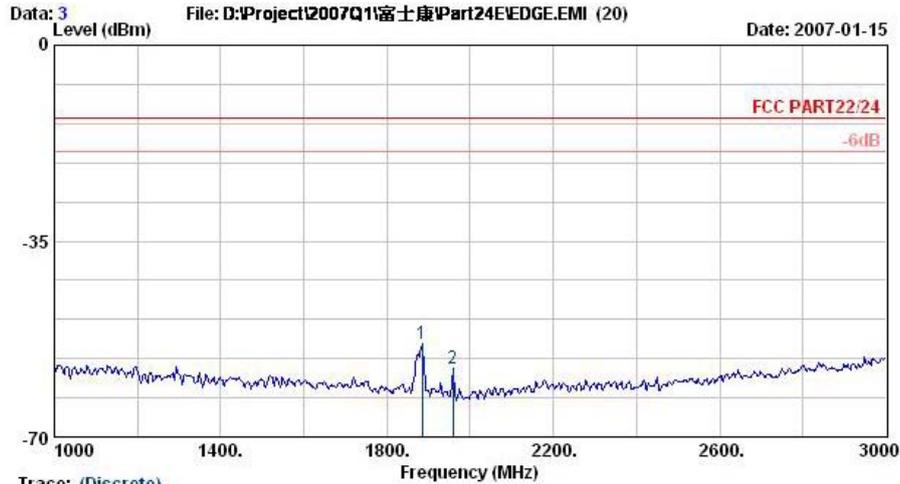
Site : 08CH06-HY
 Condition : LP-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120V_{vac}/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

	Freq MHz	Level dBm	Over Limit dB	Limit Line dBm	Read Level dBm	Factor dB	Remark
1	60.2	-50.66	-37.66	-13.00	-38.26	-12.39	Peak
2	89.1	-52.61	-39.61	-13.00	-40.33	-12.28	Peak
3 @	291.1	-50.42	-37.42	-13.00	-40.17	-10.25	Peak



Site : 08CH06-HY
 Condition : LP-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120V_{vac}/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

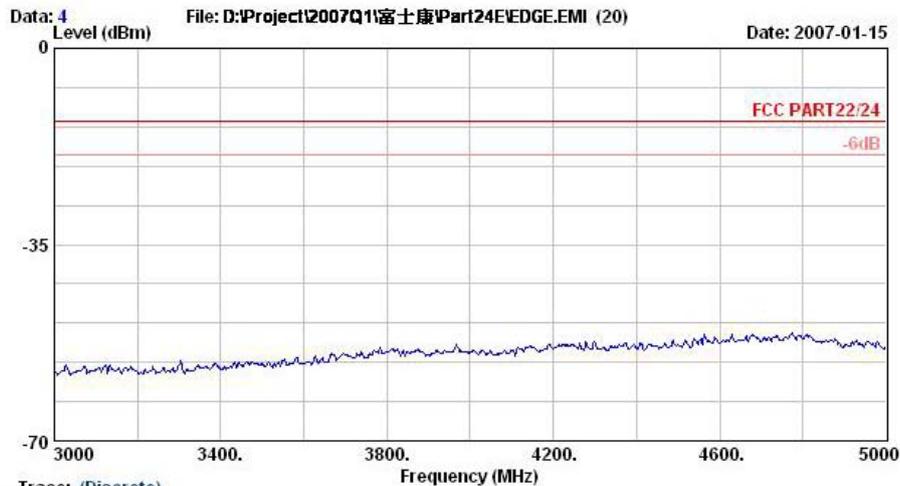
	Freq MHz	Level dBm	Over Limit dB	Limit Line dBm	Read Level dBm	Factor dB	Remark
1	323.8	-68.88	-55.88	-13.00	-59.77	-9.11	Peak
2	894.3	-64.52	-51.52	-13.00	-63.74	-0.78	Peak
3	950.3	-64.10	-51.10	-13.00	-63.87	-0.24	Peak



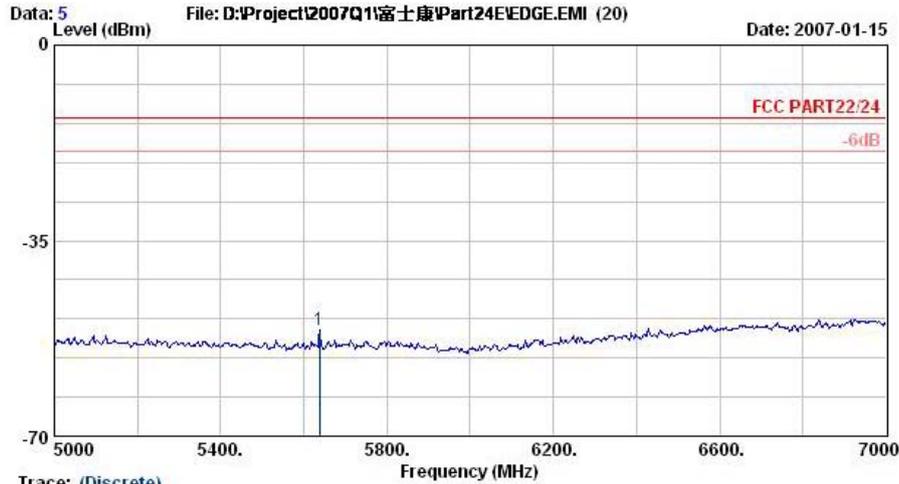
Trace: (Discrete)
 Site : 03CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Wac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1	1884.0	-53.40			-52.73	-0.68	Peak
2	1958.0	-57.76			-56.65	-1.11	Peak

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

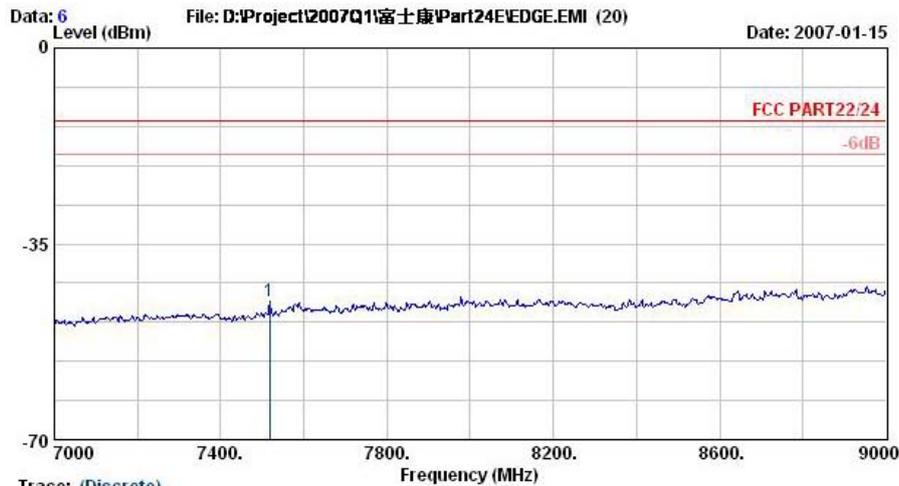


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Wac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1



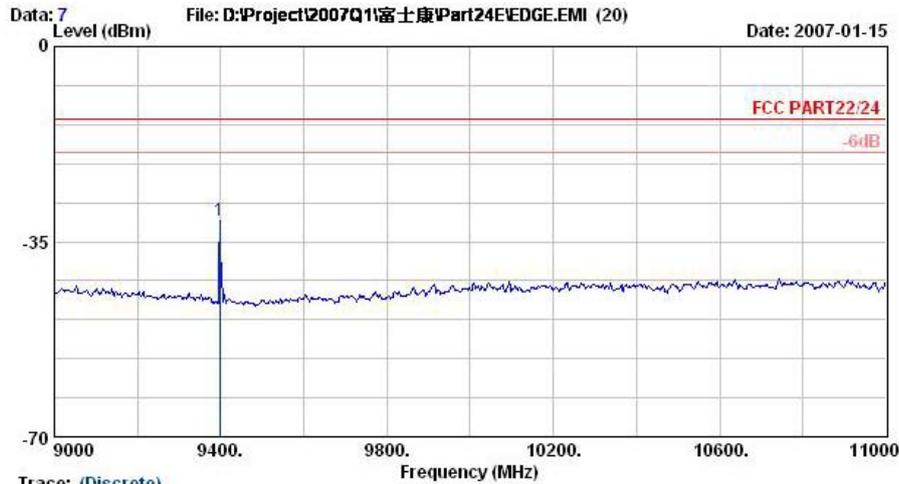
Trace: (Discrete)
 Site : 08CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1	5638.0	-51.02	-38.02	-13.00	-60.98	9.97	Peak



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

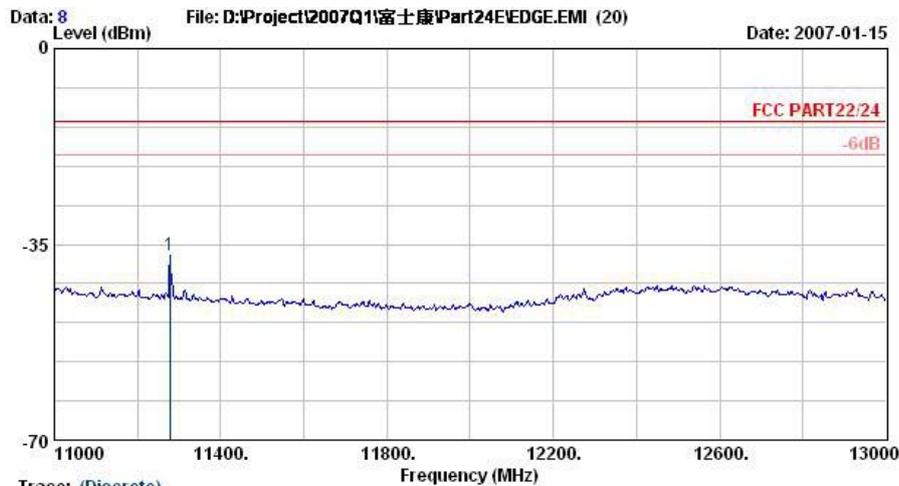
	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Remark
1 @	7518.0	-45.22	-32.22	-13.00	-61.02	15.80	Peak



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Exaphone+Adaptor
 Plane : E1

Freq	Level	Over	Limit	Read	Factor	Remark
MHz	dBm	dB	dBm	dBm	dB	

1 @	9398.0	-31.19	-18.19	-13.00	-49.41	18.22 Peak
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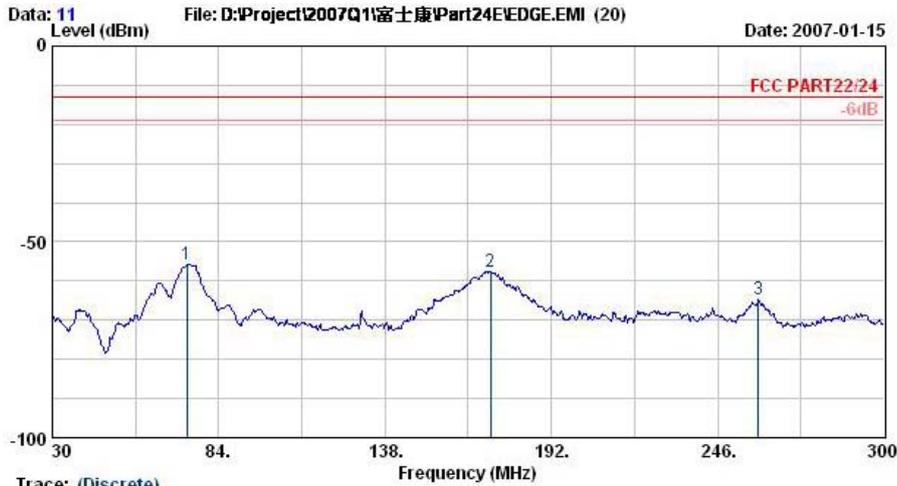
Trace: (Discrete)
 Site : 08CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Exaphone+Adaptor
 Plane : E1

Freq	Level	Over	Limit	Read	Factor	Remark
MHz	dBm	dB	dBm	dBm	dB	

1 @	11278.0	-36.97	-23.97	-13.00	-57.26	20.30 Peak
-----	---------	--------	--------	--------	--------	------------

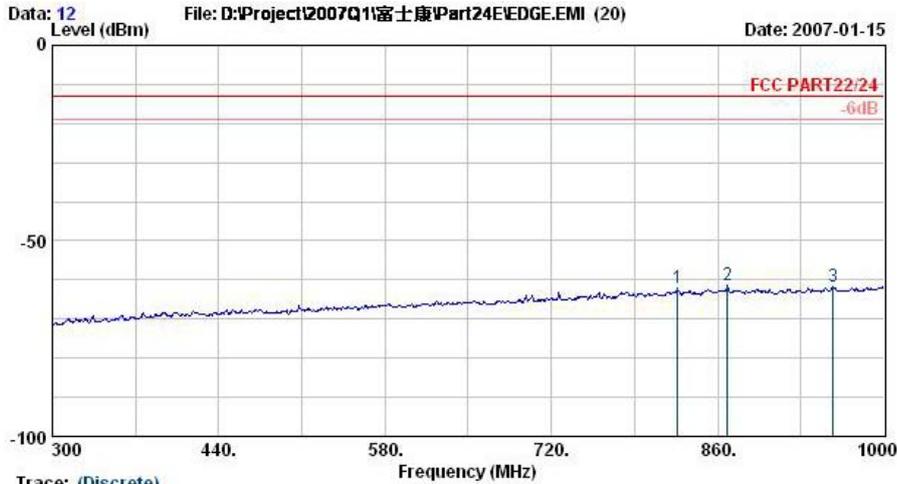


Vertical Polarization



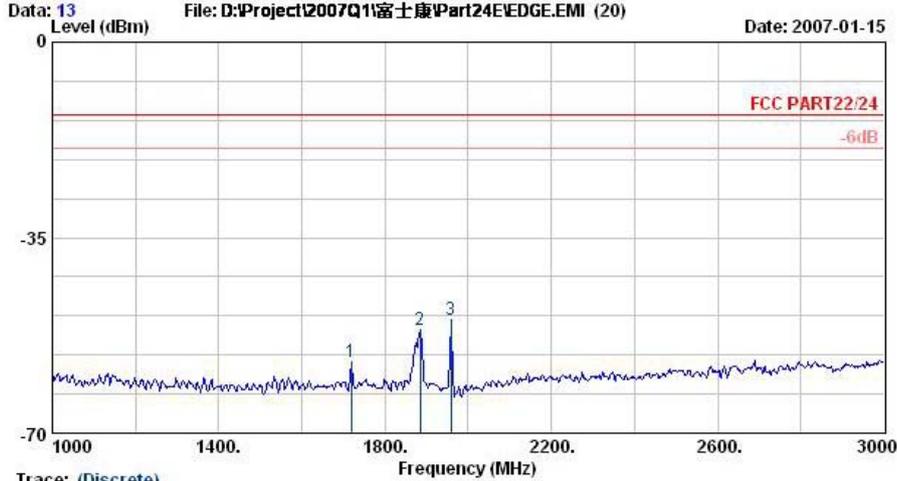
Trace: (Discrete)
 Site : 03CH06-HY
 Condition : LP-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	73.7	-55.89	-42.89	-13.00	-44.42	-11.46	Peak
2	172.3	-57.60	-44.60	-13.00	-49.25	-8.35	Peak
3	259.2	-64.70	-51.70	-13.00	-57.37	-7.33	Peak



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : LP-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

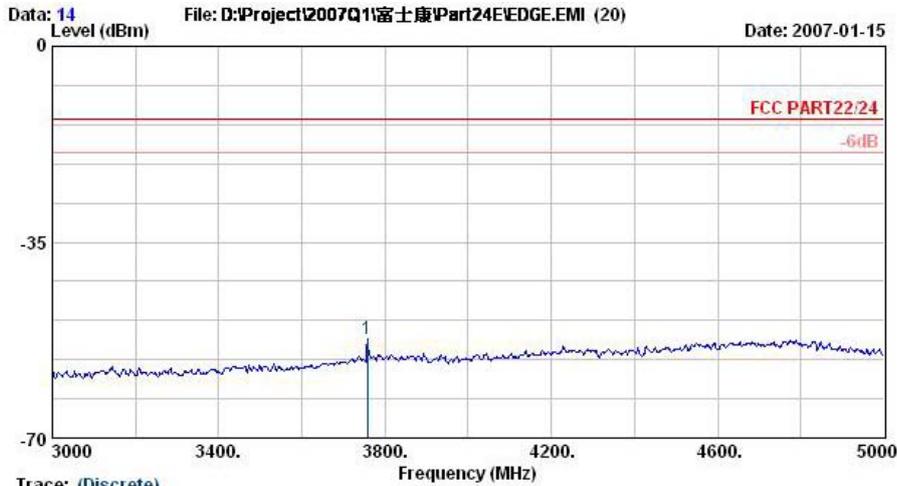
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	826.4	-62.17	-49.17	-13.00	-63.45	1.28	Peak
2	868.4	-61.39	-48.39	-13.00	-63.00	1.61	Peak
3	957.3	-61.68	-48.68	-13.00	-64.00	2.32	Peak



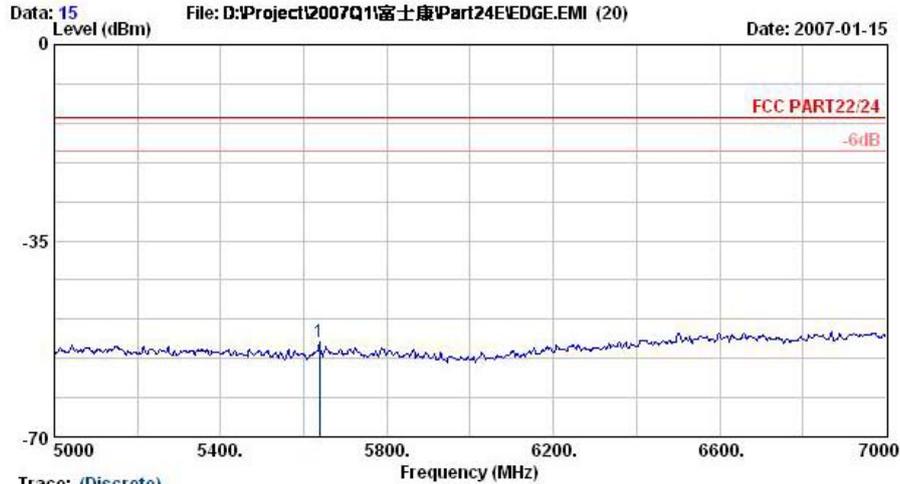
Site : 08CH06-HY
 Condition : HF-SFURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

Remark:

- #2: MS Signal
- #3: BS Signal

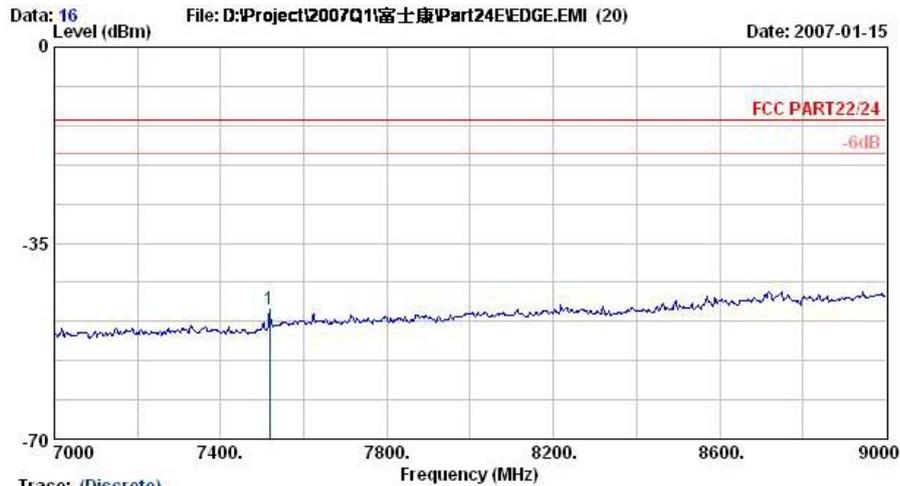


Site : 08CH06-HY
 Condition : HF-SFURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1



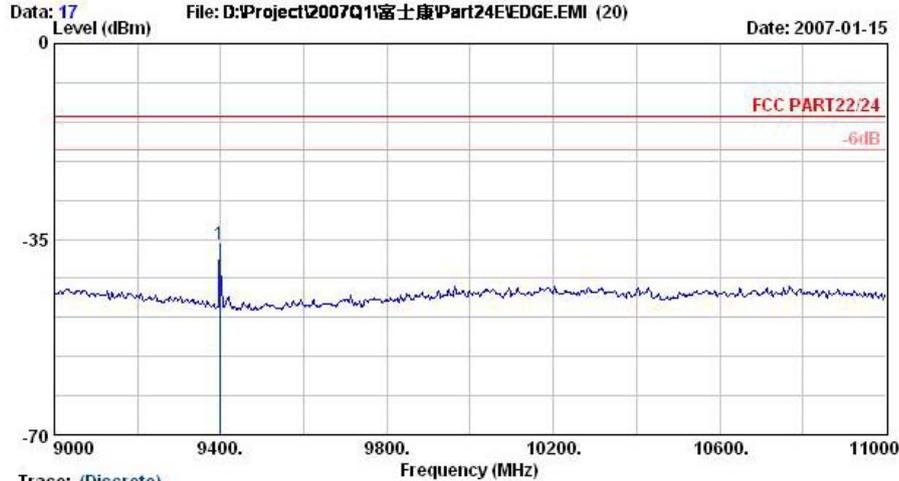
Site : 03CH06-HY
 Condition : HF-SFURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	5638.0	-53.02	-40.02	-13.00	-61.67	8.65	Peak



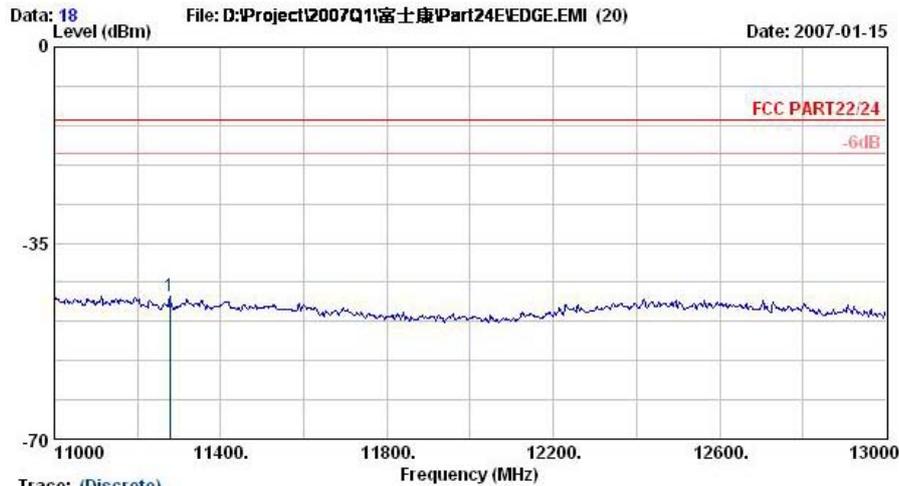
Site : 03CH06-HY
 Condition : HF-SFURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Vac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	7518.0	-46.76	-33.76	-13.00	-60.13	13.37	Peak



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Wac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	dB	dBm	dBm	dB
1 @	9398.0	-35.81	-22.81	-13.00	-53.01	17.20 Peak



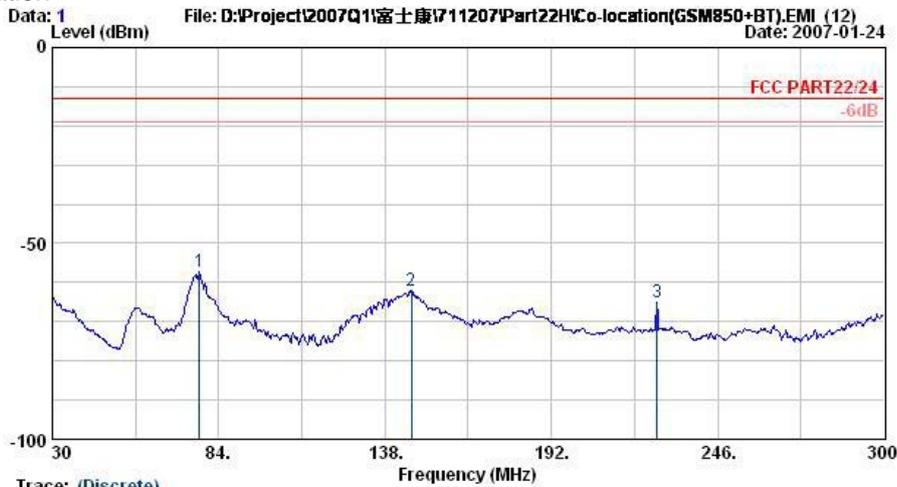
Trace: (Discrete)
 Site : 08CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Wac/60Hz
 Model : FG711207
 Mode : EDGE Link+Earphone+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	
	MHz	dBm	dB	dBm	dBm	dB
1 @	11278.0	-44.62	-31.62	-13.00	-63.49	18.87 Peak

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

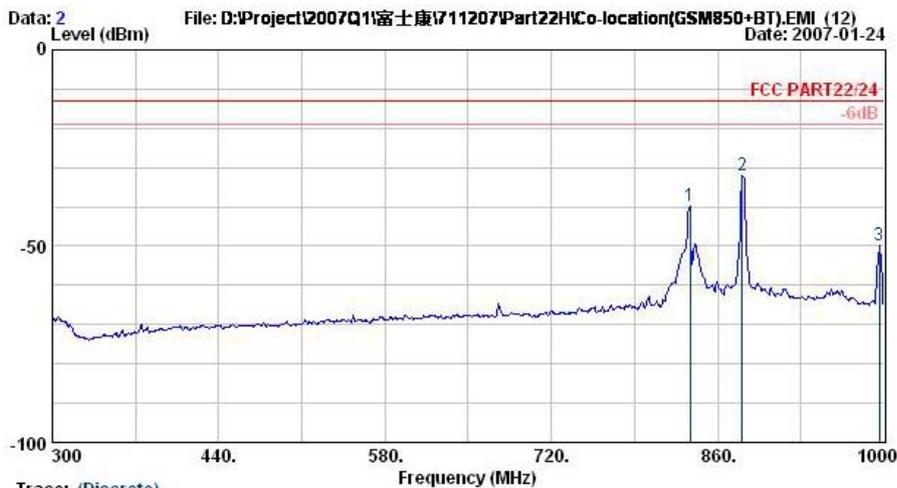


4.6.5.5 Mode 5
Horizontal Polarization



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120V_{ac}/60Hz
 Model : FG711207
 Mode : GSM 850 Link;CH189+BT Link+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	77.8	-57.27	-44.27	-13.00	-44.95	-12.33	Peak
2	146.6	-61.90	-48.90	-13.00	-49.12	-12.78	Peak
3	226.3	-64.99	-51.99	-13.00	-52.50	-12.49	Peak

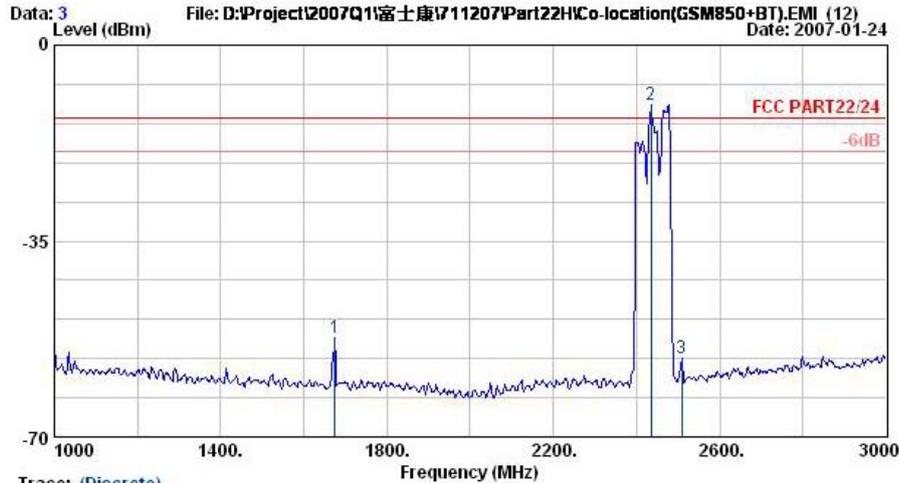


Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120V_{ac}/60Hz
 Model : FG711207
 Mode : GSM 850 Link;CH189+BT Link+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	836.9	-39.61			-38.27	-1.33	Peak
2 @	880.3	-31.88			-30.97	-0.91	Peak
3 @	995.8	-49.78	-36.78	-13.00	-49.99	0.20	Peak

Remark:

- #1: MS Signal
- #2: BS Signal

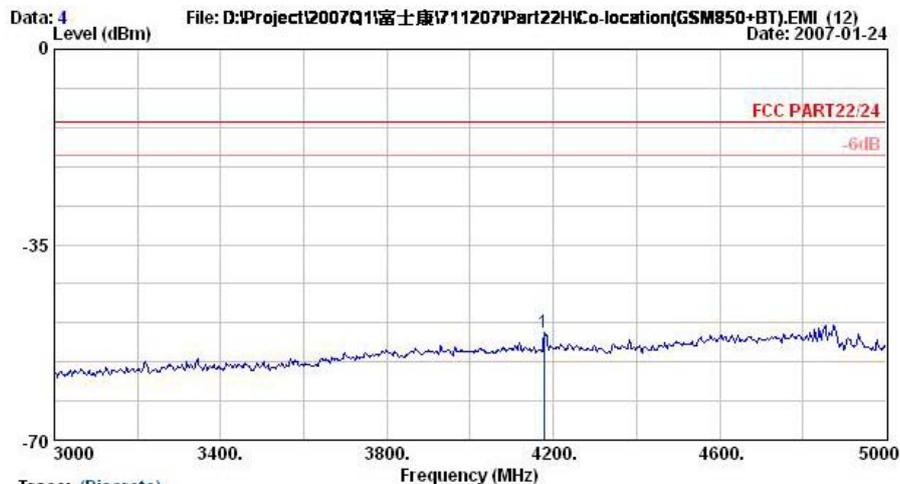


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Wac/60Hz
 Model : FG711207
 Mode : GSM 850 Link;CH189+BT Link+Adaptor
 Plane : E1

	Freq MHz	Level dBm	Over Limit dB	Limit Line dBm	Read Level dBm	Factor dB	Remark
1 @	1674.0	-52.35	-39.35	-13.00	-52.57	0.22	Peak
2 @	2434.0	-10.63			-11.63	1.00	Peak
3 @	2508.0	-55.88	-42.88	-13.00	-57.08	1.20	Peak

Remark:

- #2: BT Signal

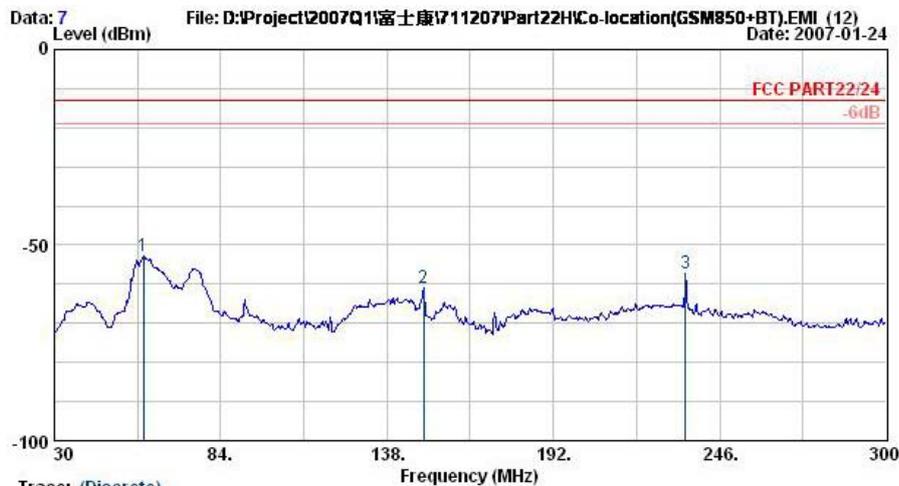


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : HF-SPURIOUS HORIZONTAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Wac/60Hz
 Model : FG711207
 Mode : GSM 850 Link;CH189+BT Link+Adaptor
 Plane : E1

	Freq MHz	Level dBm	Over Limit dB	Limit Line dBm	Read Level dBm	Factor dB	Remark
1 @	4178.0	-50.78	-37.78	-13.00	-60.57	9.79	Peak

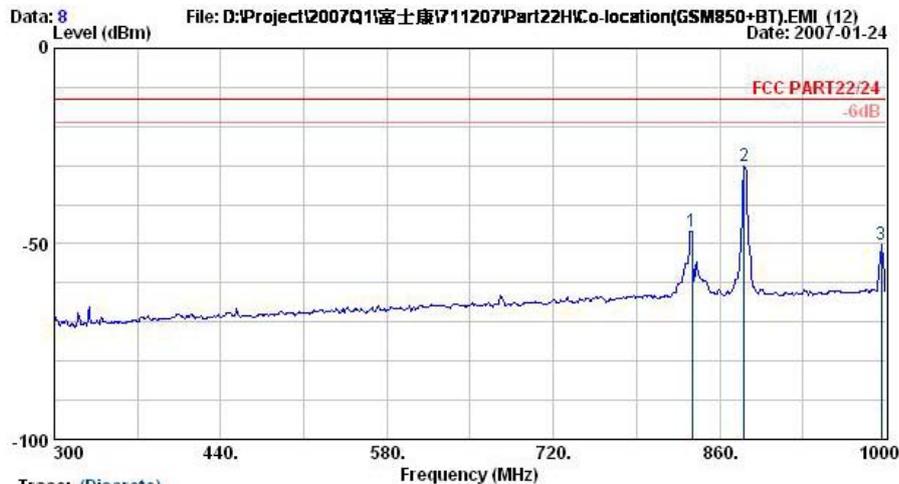


Vertical Polarization



Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LP-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Wac/60Hz
 Model : FG711207
 Mode : GSM 850 Link;CH189+BT Link+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	58.9	-52.62	-39.62	-13.00	-39.06	-13.56	Peak
2	149.9	-60.89	-47.89	-13.00	-52.74	-8.14	Peak
3 @	234.9	-57.18	-44.18	-13.00	-49.33	-7.85	Peak

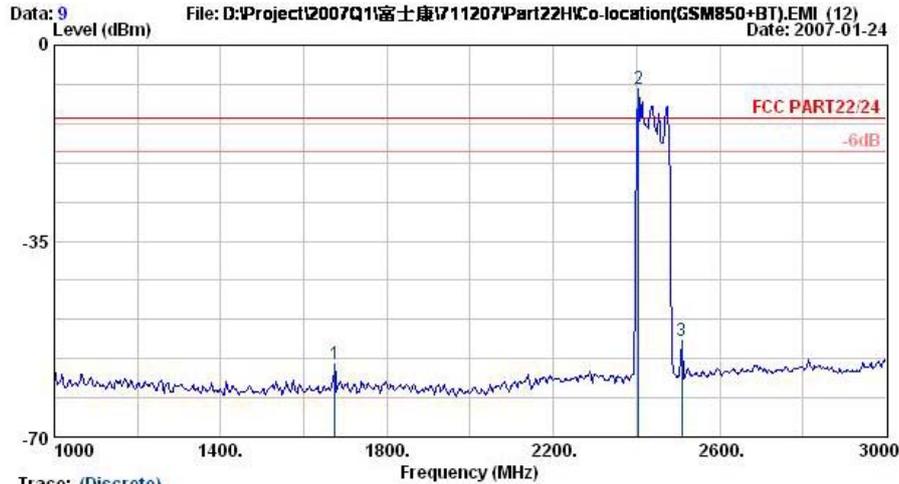


Trace: (Discrete)
 Site : 08CH06-HY
 Condition : LP-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120Wac/60Hz
 Model : FG711207
 Mode : GSM 850 Link;CH189+BT Link+Adaptor
 Plane : E1

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	836.9	-46.71			-48.08	1.36	Peak
2 @	880.3	-30.22			-31.94	1.71	Peak
3 @	995.8	-50.25	-37.25	-13.00	-52.88	2.63	Peak

Remark:

- #1: MS Signal
- #2: BS Signal



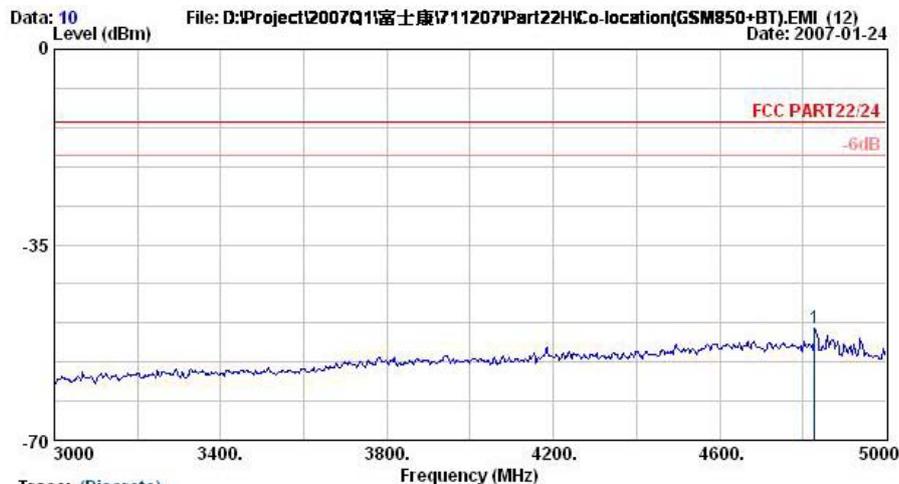
Trace: (Discrete)

Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120V_{ac}/60Hz
 Model : FG711207
 Mode : GSM 850 Link;CH189+BT Link+Adaptor
 Plane : E1

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1674.0	-57.00	-44.00	-13.00	-56.52	-0.48	Peak
2 @	2404.0	-7.90			-9.77	1.87	Peak
3 @	2508.0	-52.95	-39.95	-13.00	-55.22	2.27	Peak

Remark:

- #2: BT Signal



Trace: (Discrete)

Site : 03CH06-HY
 Condition : HF-SPURIOUS VERTICAL
 EUT : GSM/GPRS/EDGE Mobile Phone
 Power : 120V_{ac}/60Hz
 Model : FG711207
 Mode : GSM 850 Link;CH189+BT Link+Adaptor
 Plane : E1

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	4828.0	-49.96	-36.96	-13.00	-60.19	10.23	Peak

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

4.7 Frequency Stability (Temperature Variation)

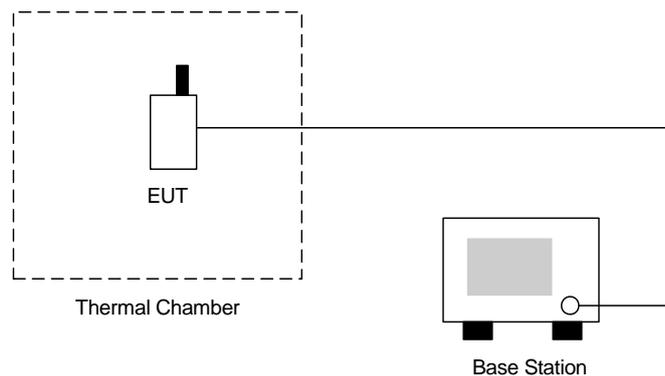
4.7.1 Measurement Instrument

As described 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 noted 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 was 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	-	-	2.5	Passed
-20	-31	-0.02		
-10	-28	-0.01		
0	24	0.01		
10	-20	-0.01		
20	17	0.01		
30	-18	-0.01		
40	32	0.02		
50	-31	-0.02		

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

- Test Mode : GSM850 (EDGE) CH189

Temperature()	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-	-	2.5	Passed
-20	-28	-0.01		
-10	-22	-0.01		
0	21	0.01		
10	18	0.01		
20	-21	-0.01		
30	-26	-0.01		
40	-30	-0.02		
50	-31	-0.02		

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



▪ Test Mode : PCS1900 (GSM) CH661

Temperature()	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-	-	2.5	Passed
-20	-38	-0.02		
-10	32	0.02		
0	24	0.01		
10	-26	-0.01		
20	25	0.01		
30	-20	-0.01		
40	31	0.02		
50	-44	-0.02		

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

▪ Test Mode : PCS1900 (EDGE) CH661

Temperature()	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-	-	2.5	Passed
-20	-30	-0.02		
-10	28	0.01		
0	21	0.01		
10	16	0.01		
20	-18	-0.01		
30	-22	-0.01		
40	-25	-0.01		
50	-29	-0.02		

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

4.8 Frequency Stability (Voltage Variation)

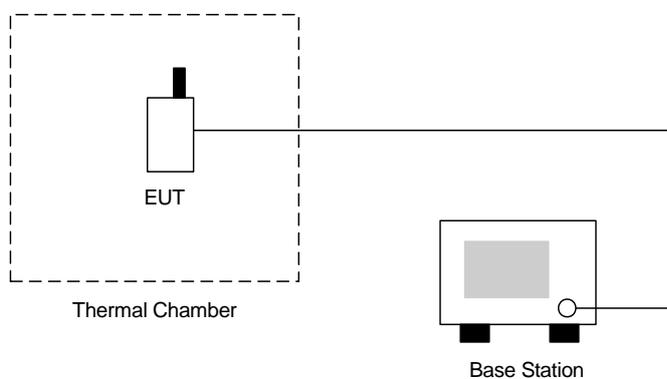
4.8.1 Measurement Instrument

As described in chapter 5 of this test report.

4.8.2 Test Procedure

1. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ 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	22.0	0.01	2.5	Passed
BEP	-18.0	-0.01		
4.2	23.0	0.01		

- Test Mode : GSM850 (EDGE) CH189

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	20.0	0.01	2.5	Passed
BEP	15.0	0.01		
4.2	11.0	0.01		



- Test Mode : PCS1900 (GSM) CH661

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	25.0	0.01	2.5	Passed
BEP	-20.0	-0.01		
4.2	-17.0	-0.01		

- Test Mode : PCS1900 (EDGE8) CH661

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	16.0	0.01	2.5	Passed
BEP	-19.0	-0.01		
4.2	23.0	0.01		

Remark:

1. Normal Voltage=3.7V.
2. Battery End Point (BEP)=3.3 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	Jul. 25, 2006	Jul. 24, 2007	Radiation (03CH06-HY)
Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jun. 28, 2006	Jun. 27, 2007	Radiation (03CH06-HY)
Controller	CT	SC100	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 21, 2006	Nov. 21, 2008	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Feb. 1, 2005	Feb. 1, 2007	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Jul. 21, 2006	Jul. 20, 2007	Radiation (03CH06-HY)
Amplifier	MITEQ	AMF-6F	997165	26G - 40G	Jul. 21, 2006	Jul. 20, 2007	Radiation (03CH06-HY)
Turn Table	HD	DS 420	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)
Power Meter	Agilent	E4416A	GB41292344	N/A	Jan. 23, 2006	Jan. 22, 2008	Radiation (03CH06-HY)
Power Sensor	Agilent	E9327A	US40441548	N/A	Feb. 06, 2006	Feb. 05, 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		$u(x_i)$	C_i	$C_i * u(x_i)$
	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 $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20 \log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$	+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