



FCC/IC TEST REPORT

for

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

Equipment : PDA Phone
Trade Name : Palm
Model No. : Centro 685
FCC ID : O8F-728
IC ID : 3905A-728
Tx Frequency Range : GSM850 : 824~849 MHz
PCS1900 : 1850~1910 MHz
Max. ERP/EIRP Power : GSM850(GSM) : 1.07 W
GSM850(EDGE) : 0.23 W
PCS1900(GSM) : 0.49 W
PCS1900(EDGE) : 0.15 W
Emission Designator : GSM : 300KGXW
EDGE : 300KG7W
Applicant : Palm Inc.
950 W Maude Avenue MS 22L02 Sunnyvale,
CA 94085-2801

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.
- **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 Jun. 20, 2007 at **Sporton International Inc. LAB.**
- Report No.: FG750805, Report Version: Rev. 02.

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Report Version: Rev. 02



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Appendix A - Setup Photographs



History of this test report

Report Issue Date: Jun. 21, 2007

Report No.	Description



1. General Information

1.1. Applicant

Palm Inc.

950 W Maude Avenue MS 22L02 Sunnyvale, CA 94085-2801

1.2 Manufacturer

Palm Inc.

950 W Maude Avenue MS 22L02 Sunnyvale, CA 94085-2801

1.3 Basic Description of Equipment under Test

Equipment : PDA Phone
Trade Name : Palm
Model No. : Centro 685
FCC ID : O8F-728
IC ID : 3905A-728
Power Supply Type : Switching, From battery 3.7V
AC Power Cord : AC 120V, Wall-mount, 1.6 meter, 2 pin
Adapter 1 : Nibit / DCS-51FL-52P US
Adapter 2 : PIE / P005WA05YY
Battery : Samsung / DS22784
Earphone : Palm / EMC219-001-01

**1.4 Feature of Equipment under Test**

DUT Type :	PDA Phone
Trade Name :	Palm
Model Name :	Centro 685
FCC ID :	O8F-728
IC ID :	3905A-728
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 :	GSM : 33.29 dBm (GSM) ; 32.38 dBm (GPRS8) ; 32.33 dBm (GPRS10) ; 26.5 dBm (EDGE) PCS : 29.85 dBm (GSM) ; 28.99 dBm (GPRS8) ; 28.98 dBm (GPRS10) ; 24.68 dBm (EDGE) Bluetooth : 1.9 dBm
Maximum ERP/EIRP :	GSM850(GSM) : 1.07 W (30.3 dBm) GSM850(EDGE) : 0.23 W (23.59 dBm) PCS1900(GSM) : 0.49 W (26.89 dBm) PCS1900(EDGE) : 0.15 W (21.71 dBm)
Antenna Type :	GSM/DCS: Fixed Internal Bluetooth: PIFA Antenna
Power Rating (DC/AC , Voltage and Current of RF element or PA) :	DC 3.7V / 1150mA
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 : May 08, 2007

Report Date : Jun. 21, 2007

2 Test Configuration of Equipment under Test

2.1 Test Manner

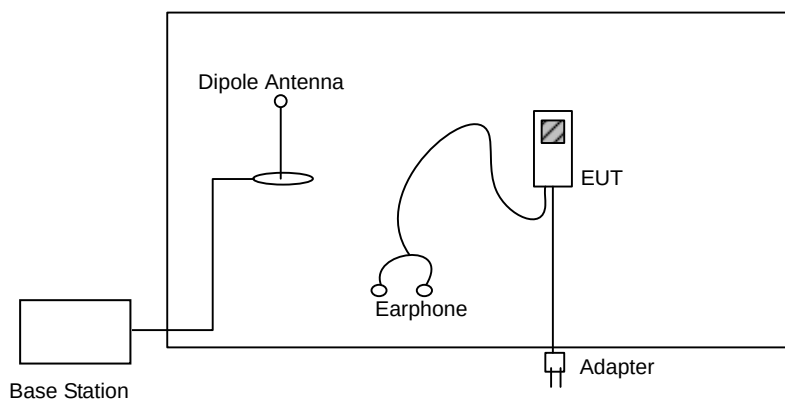
- The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- During all testings, EUT is in link mode with base station emulator at maximum power level.
- Frequency range investigated: radiated emission 30 MHz to 9000 MHz for GSM850; 30MHz to 19000 MHz for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

2.2 Test Mode

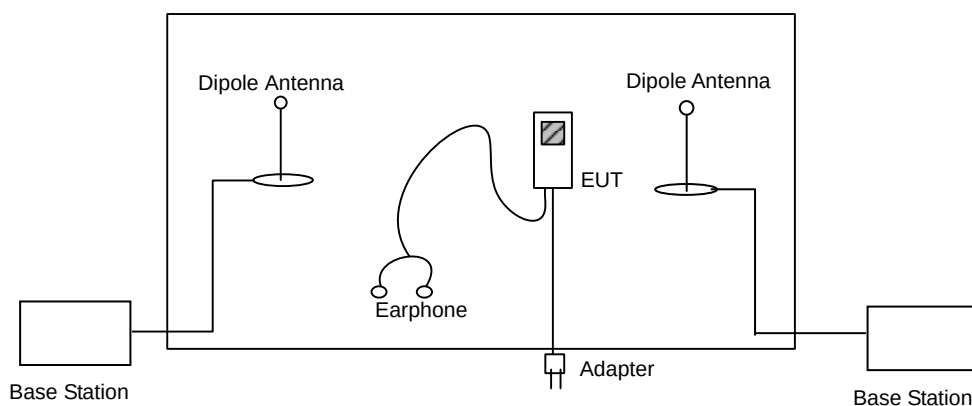
Application	GSM850	PCS1900
Radiated Emission	☒ Mode 1: GSM Link_CH 189	☒ Mode 3: GSM Link_CH 661
	☒ Mode 2: EDGE Link_CH 189	☒ Mode 4: EDGE Link_CH 661
	☒ Mode 5: GSM Link with BT Link	
Conducted Measurement	☒ Mode 1: GSM_CH 189	☒ Mode 3: GSM_CH 661
	☒ Mode 2: EDGE_CH 189	☒ Mode 4: EDGE_CH 661

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.	Base Station (Agilent)	E5515C	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

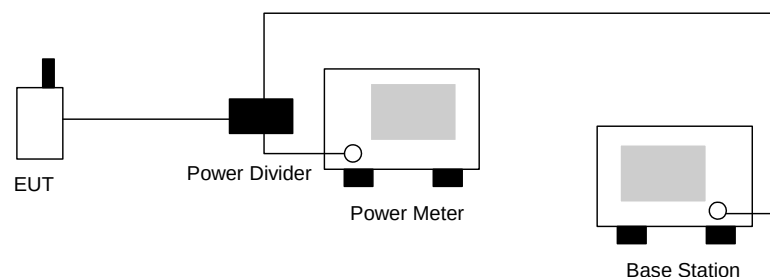
4.2.1 Measurement Instruments :

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)	32.61	1.824
	189	836.4 (Mid)	33.03	2.009
	251	848.8 (High)	33.29	2.133
GSM850 (GPRS8)	128	824.2 (Low)	32.11	1.626
	189	836.4 (Mid)	32.33	1.710
	251	848.8 (High)	32.38	1.730
GSM850 (GPRS10)	128	824.2 (Low)	32.08	1.614
	189	836.4 (Mid)	32.29	1.694
	251	848.8 (High)	32.33	1.710
GSM850 (EDGE)	128	824.2 (Low)	26.18	0.415
	189	836.4 (Mid)	26.31	0.428
	251	848.8 (High)	26.50	0.447
PCS1900 (GSM)	512	1850.2 (Low)	29.85	0.966
	661	1880.0 (Mid)	29.53	0.897
	810	1909.8 (High)	29.15	0.822
PCS1900 (GPRS8)	512	1850.2 (Low)	28.99	0.793
	661	1880.0 (Mid)	28.99	0.793
	810	1909.8 (High)	28.84	0.766
PCS1900 (GPRS10)	512	1850.2 (Low)	28.95	0.785
	661	1880.0 (Mid)	28.98	0.791
	810	1909.8 (High)	28.80	0.759
PCS1900 (EDGE)	512	1850.2 (Low)	24.55	0.285
	661	1880.0 (Mid)	24.64	0.291
	810	1909.8 (High)	24.68	0.294



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.

$E_t = R_t + AF$

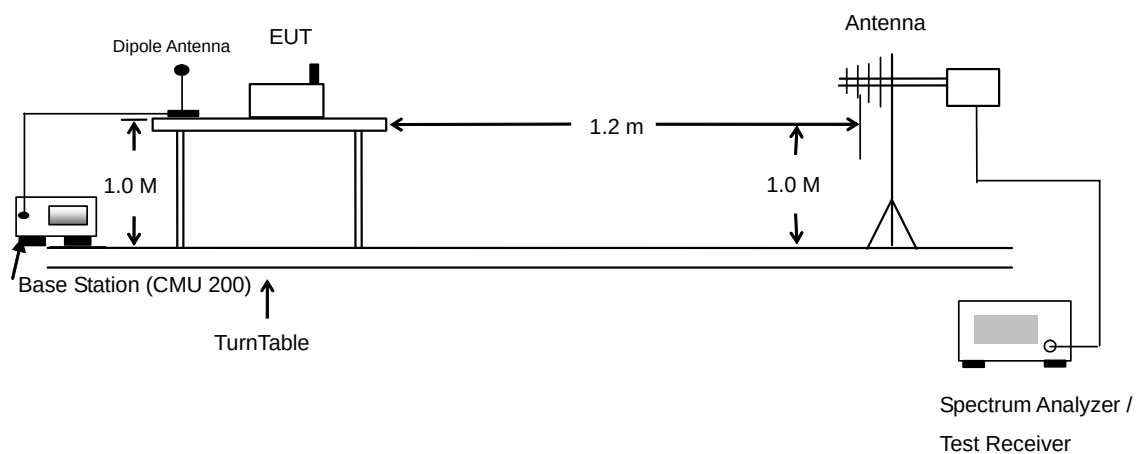
$E_s = R_s + AF$

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	-16.98	-48.12	0.00	-1.08	30.06	1.01
836.40	-17.58	-48.28	0.00	-0.93	29.77	0.95
848.80	-17.29	-48.35	0.00	-0.76	30.30	1.07
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-29.80	-47.97	0.00	-1.08	17.09	0.05
836.40	-30.28	-48.01	0.00	-0.93	16.80	0.05
848.80	-30.11	-48.05	0.00	-0.76	17.18	0.05

GSM850 (EDGE) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-23.96	-48.12	0.00	-1.08	23.08	0.20
836.40	-24.68	-48.28	0.00	-0.93	22.67	0.18
848.80	-24.00	-48.35	0.00	-0.76	23.59	0.23
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-36.39	-47.97	0.00	-1.08	10.50	0.01
836.40	-37.12	-48.01	0.00	-0.93	9.96	0.01
848.80	-36.61	-48.05	0.00	-0.76	10.68	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	-32.49	-51.88	0.00	1.96	21.35	0.14
1880.00	-37.46	-52.99	0.00	2.00	17.53	0.06
1909.80	-35.79	-54.28	0.00	1.98	20.47	0.11
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-27.20	-52.13	0.00	1.96	26.89	0.49
1880.00	-30.93	-53.17	0.00	2.00	24.24	0.27
1909.80	-34.87	-54.13	0.00	1.98	21.24	0.13

PCS1900 (EDGE) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-37.62	-51.88	0.00	1.96	16.22	0.04
1880.00	-42.54	-52.99	0.00	2.00	12.45	0.02
1909.80	-39.93	-54.28	0.00	1.98	16.33	0.04
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-32.38	-52.13	0.00	1.96	21.71	0.15
1880.00	-35.31	-53.17	0.00	2.00	19.86	0.10
1909.80	-39.62	-54.13	0.00	1.98	16.49	0.04

4.4 Occupied Bandwidth and Band Edge Measurement

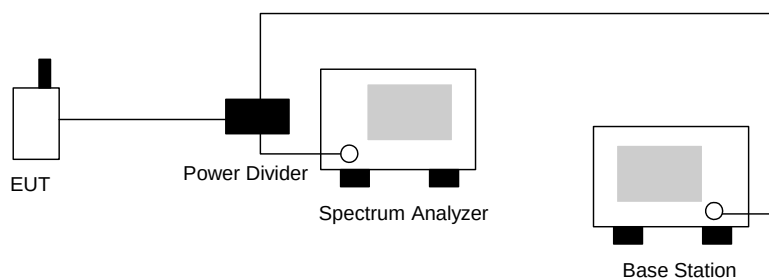
4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

4.4.2 Test Procedure

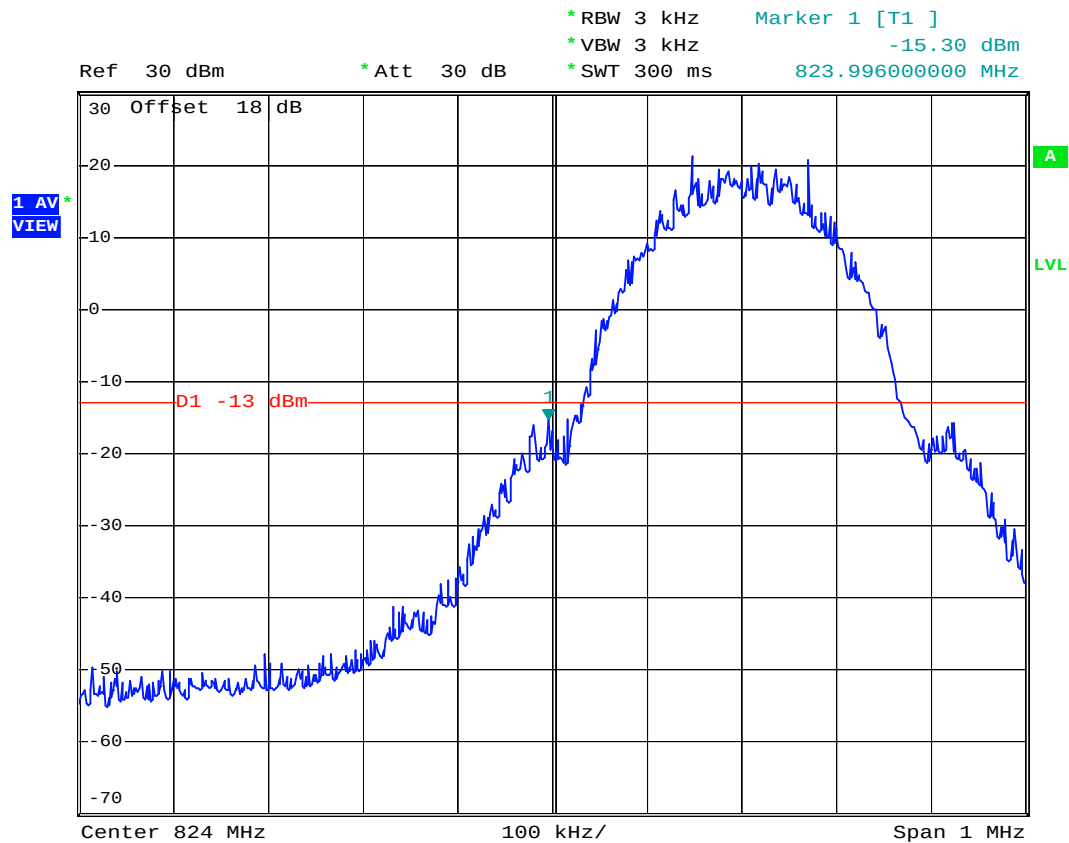
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The 99% occupied bandwidth of middle channel for the highest and lowest RF powers were measured.
3. The bandedge of low and high channels for the highest RF powers within the transmitting frequency band were measured.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

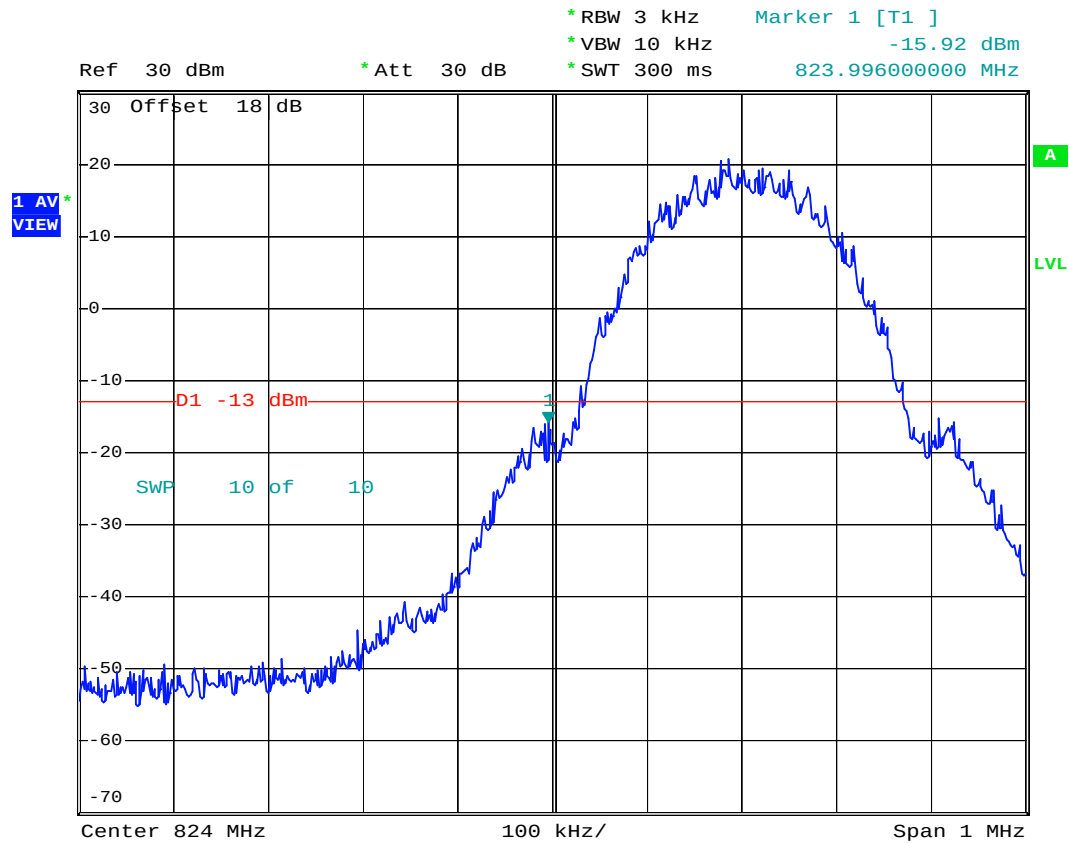


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FCC/IC TEST REPORT

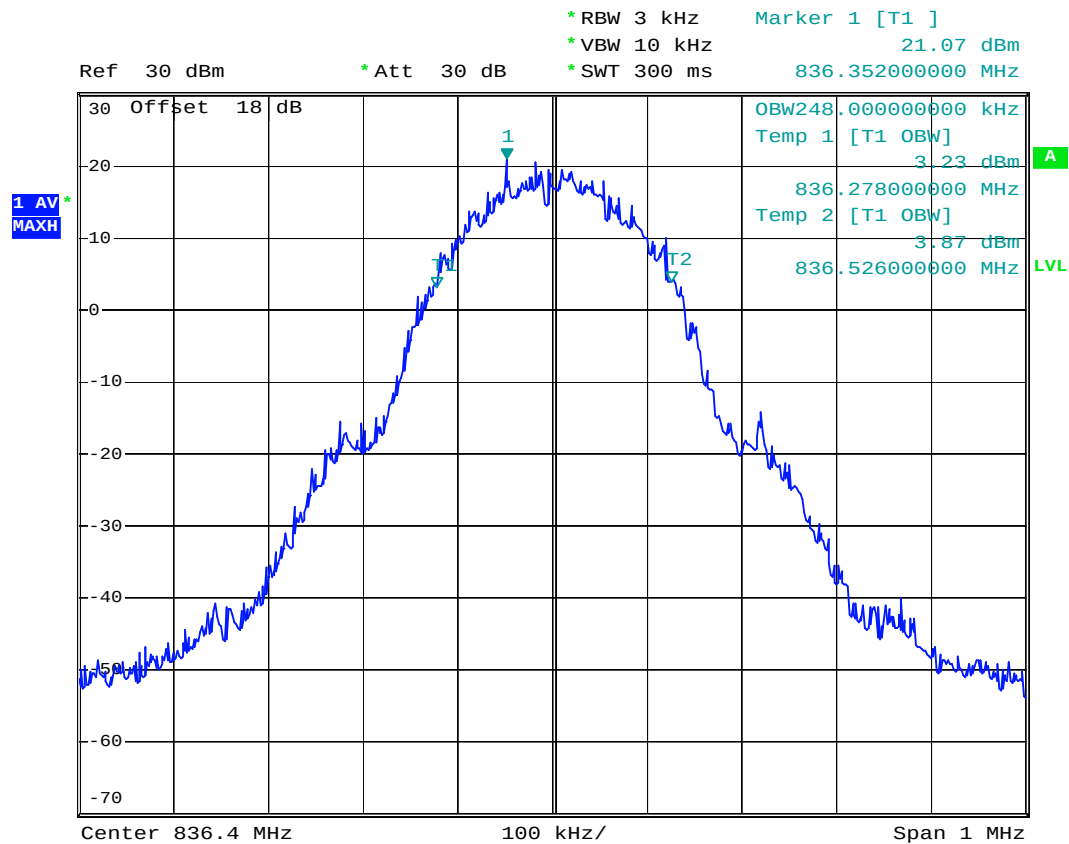
Report No. : FG750805



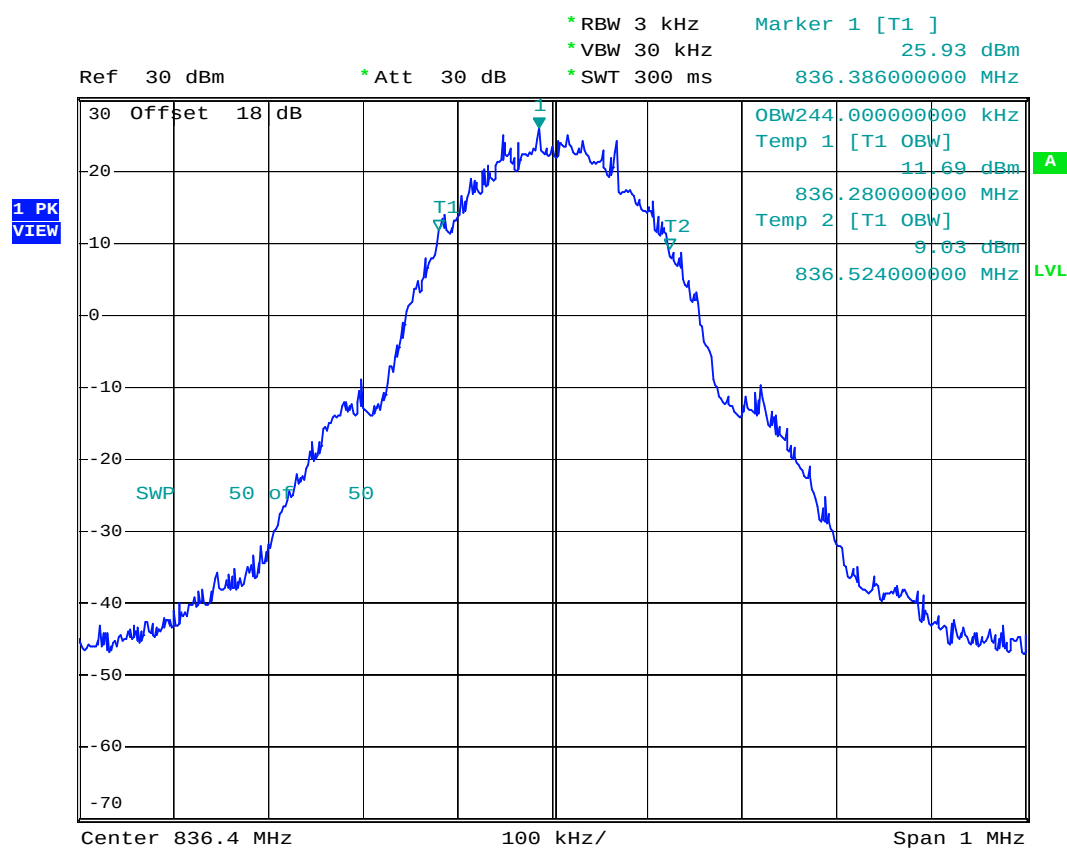
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- Test Mode : GSM850 (GSM) CH189 99% Occupied Bandwidth
- Power State : High



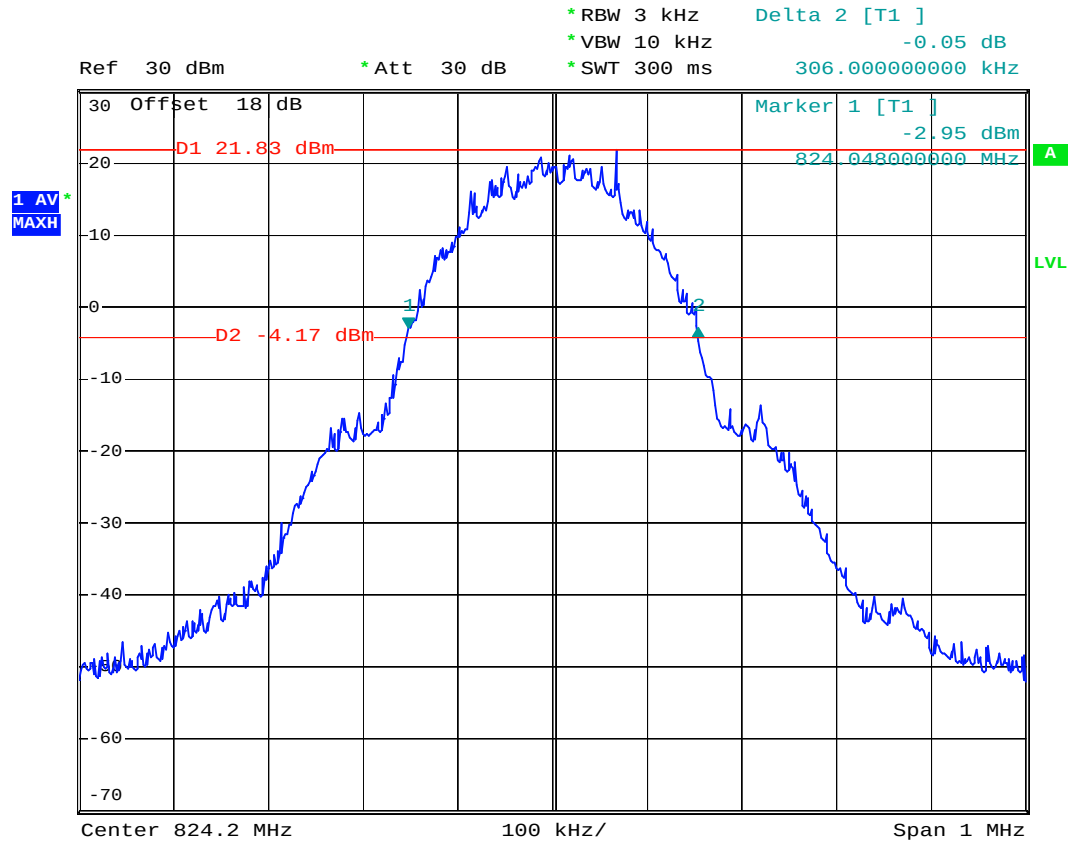
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Date: 15.MAY.2007 02:52:28



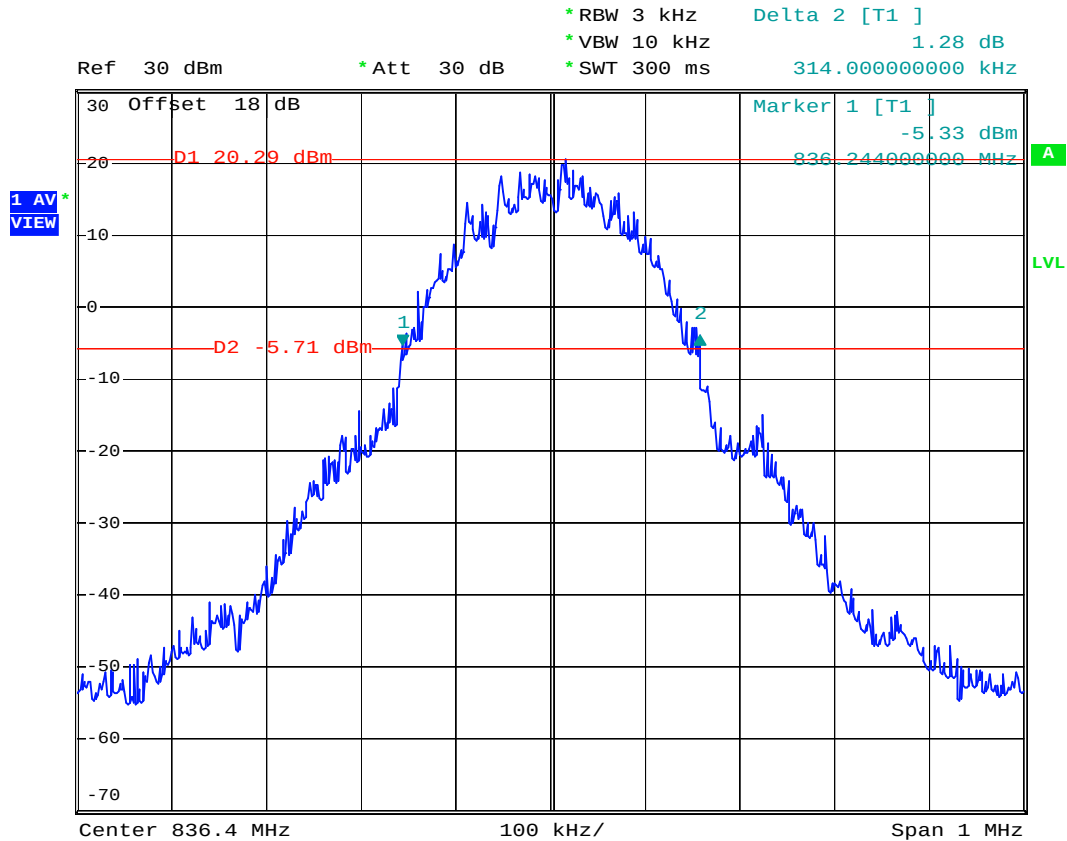
- Test Mode : GSM850 (GSM) CH128 26dB Occupied Bandwidth
- Power State : High



Date: 20.JUN.2007 22:17:18



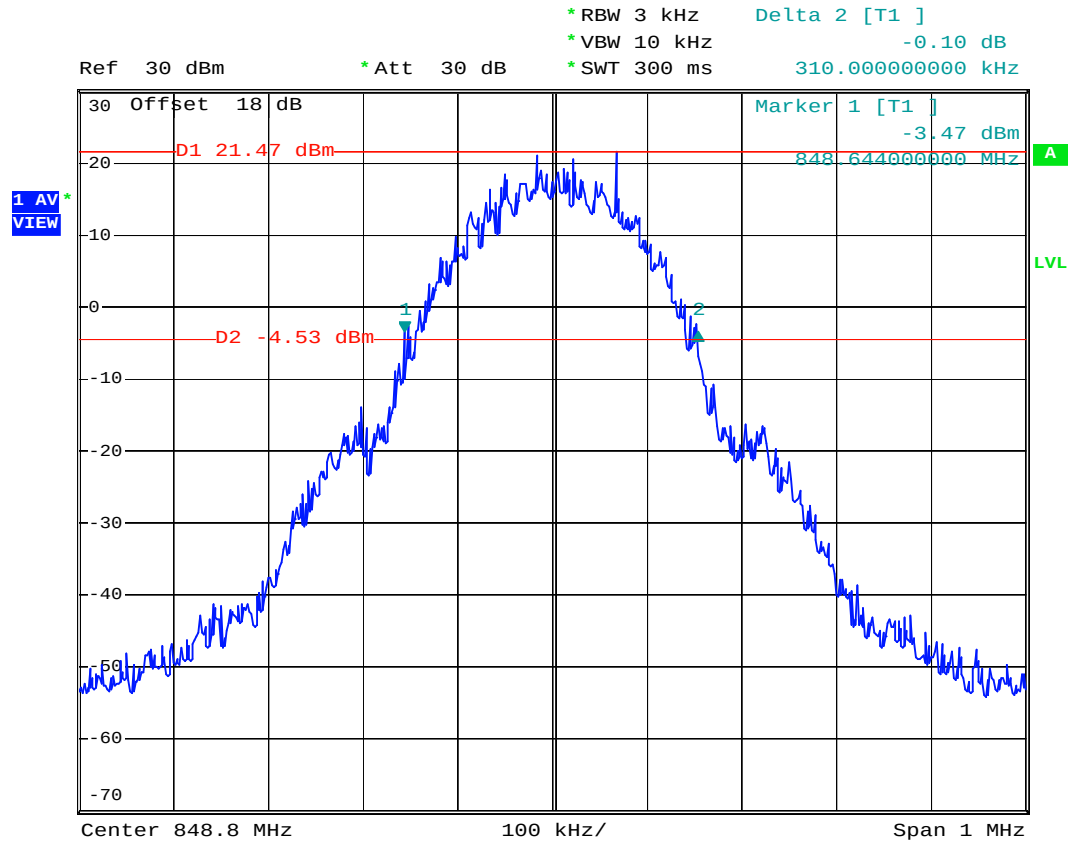
- Test Mode : GSM850 (GSM) CH189 26dB Occupied Bandwidth
- Power State : High



Date: 20.JUN.2007 22:13:15



- Test Mode : GSM850 (GSM) CH251 26dB Occupied Bandwidth
- Power State : High



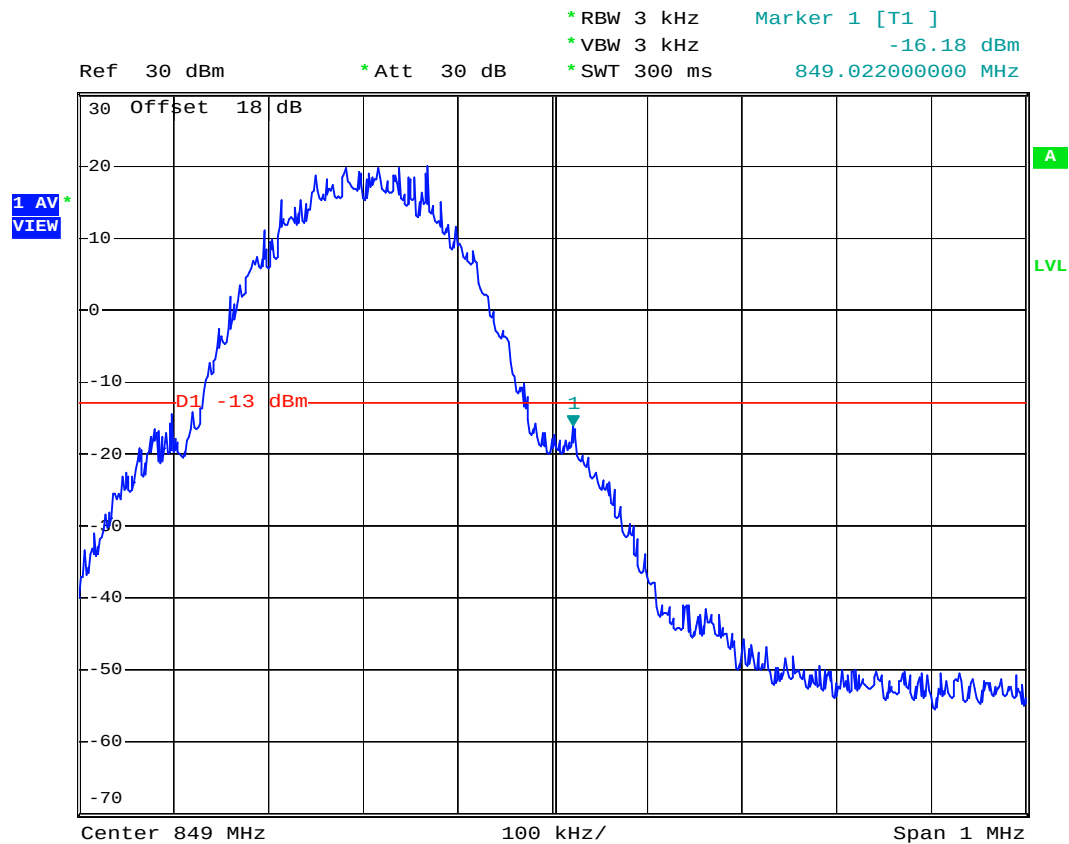
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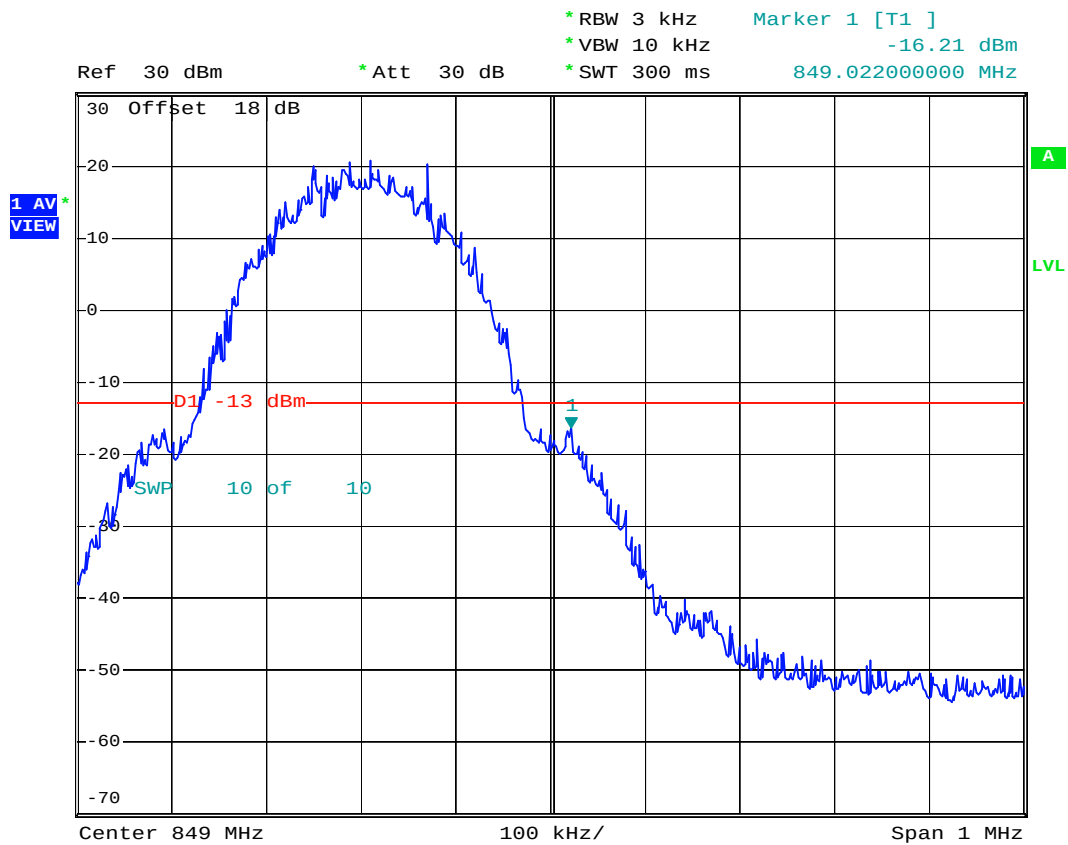
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Report No. : FG750805

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



Date: 15.MAY.2007 02:45:15



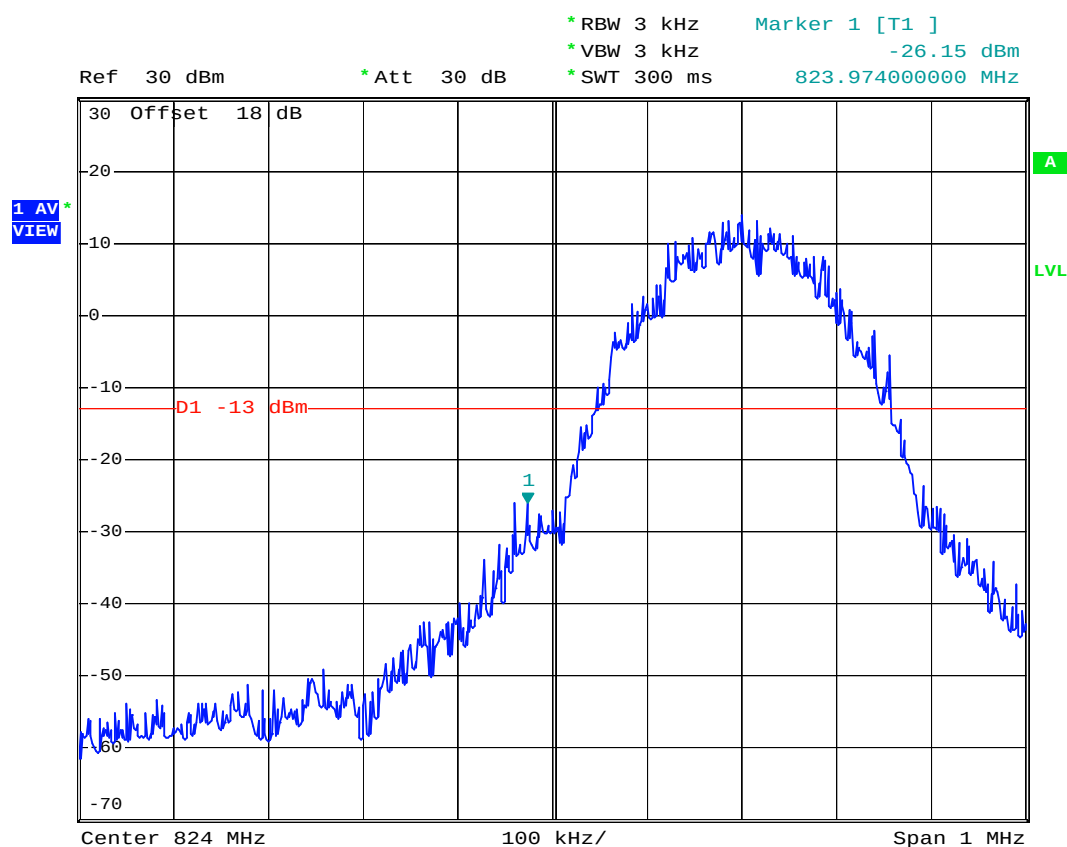
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FCC/IC TEST REPORT

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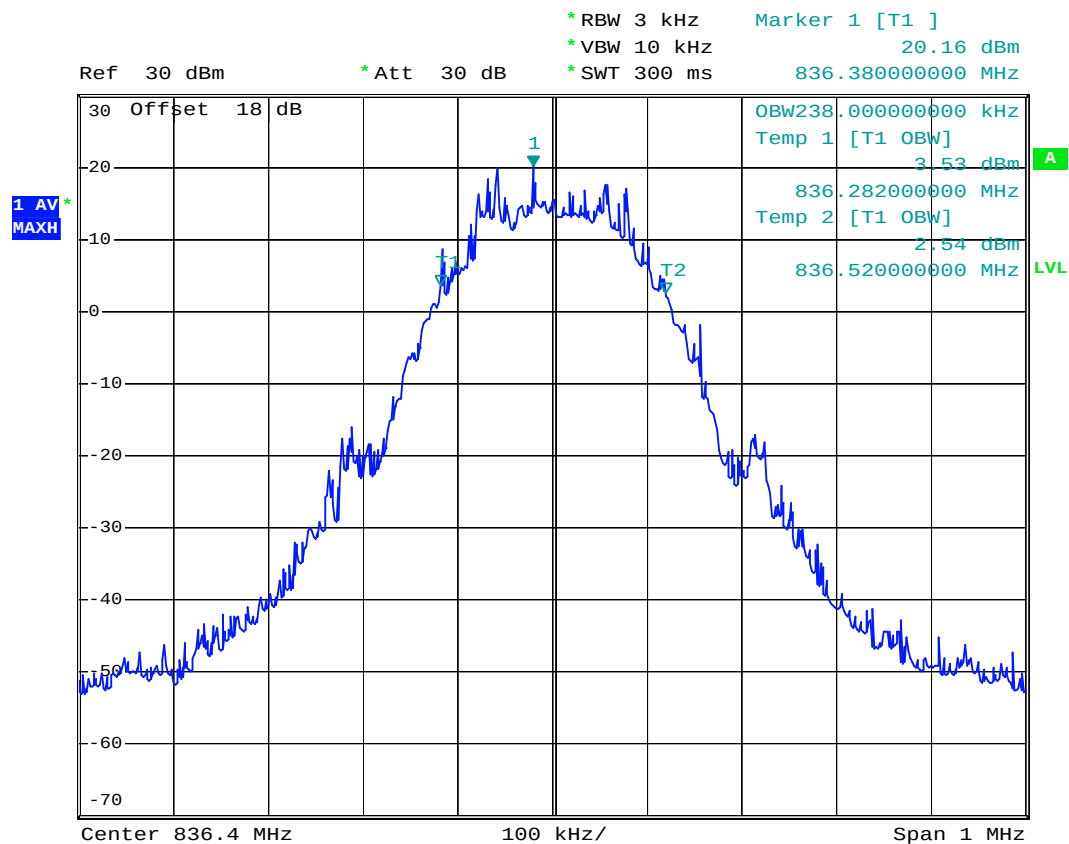
- Mode 2
- Test Mode : GSM850 (EDGE) CH128 Lower Band Edge
- Power State : High



Date: 14.MAY.2007 18:47:46



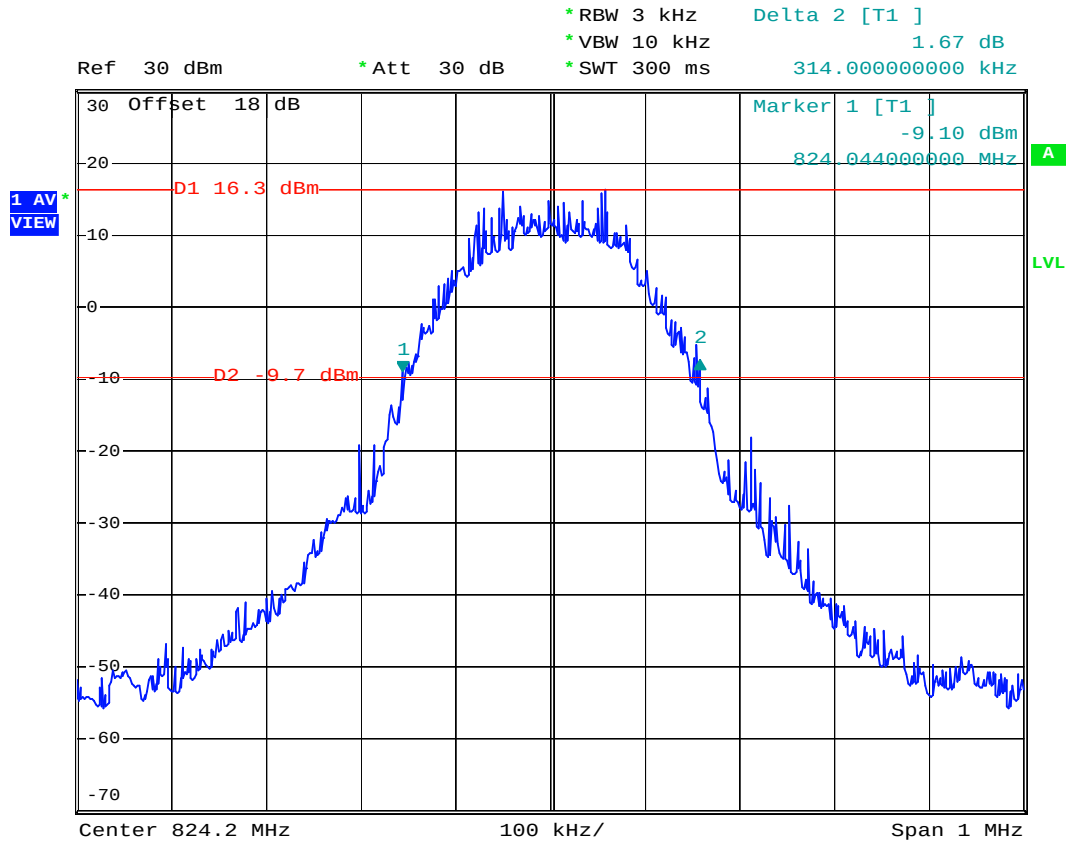
- Test Mode : GSM850 (EDGE) CH189 99% Occupied Bandwidth
- Power State : High



Date: 20.JUN.2007 22:52:44



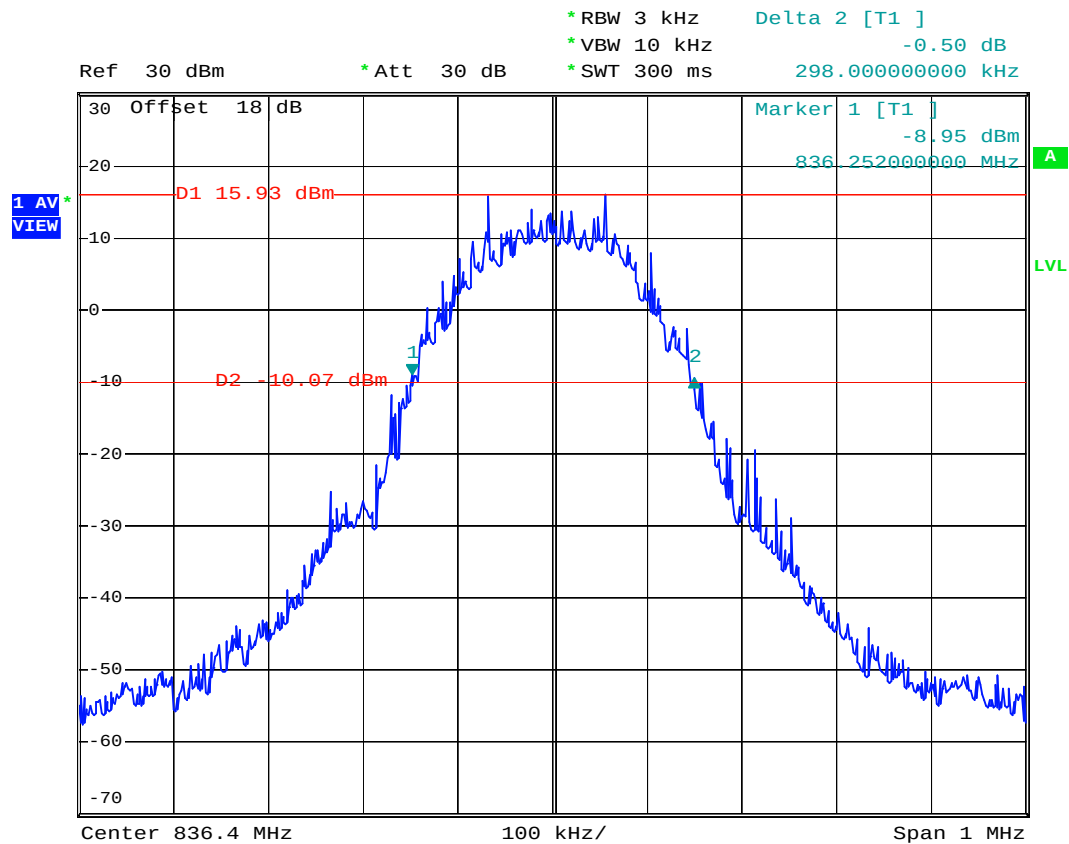
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- Power State : High



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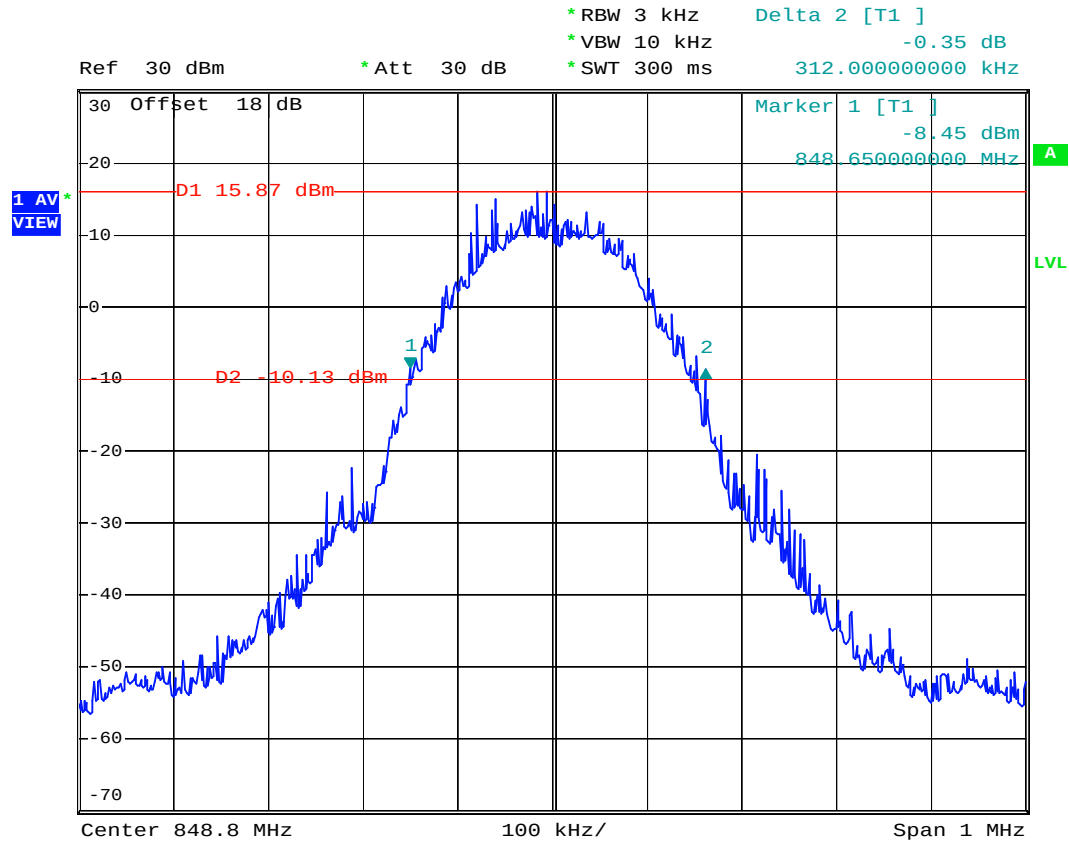
- Test Mode : GSM850 (EDGE) CH189 26dB Occupied Bandwidth
- Power State : High



Date: 20.JUN.2007 22:43:41



- Test Mode : GSM850 (EDGE) CH251 26dB Occupied Bandwidth
- Power State : High



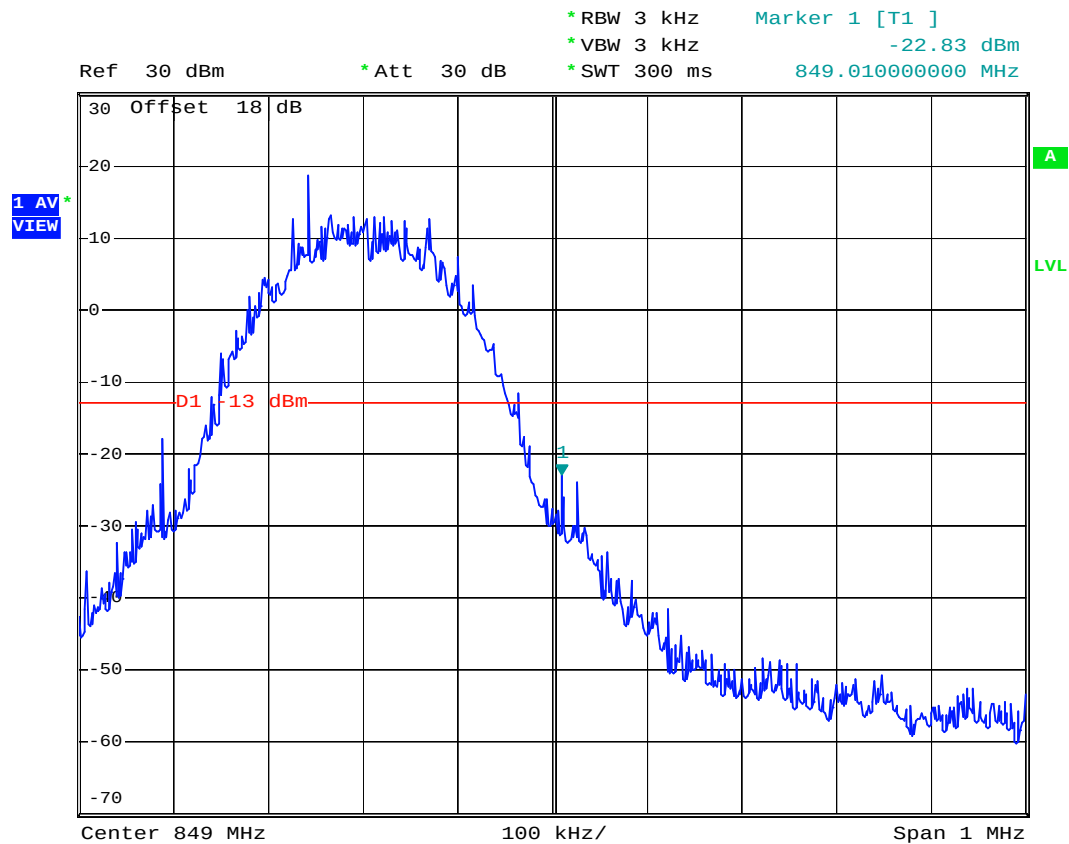
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FCC/IC TEST REPORT

Report No. : FG750805

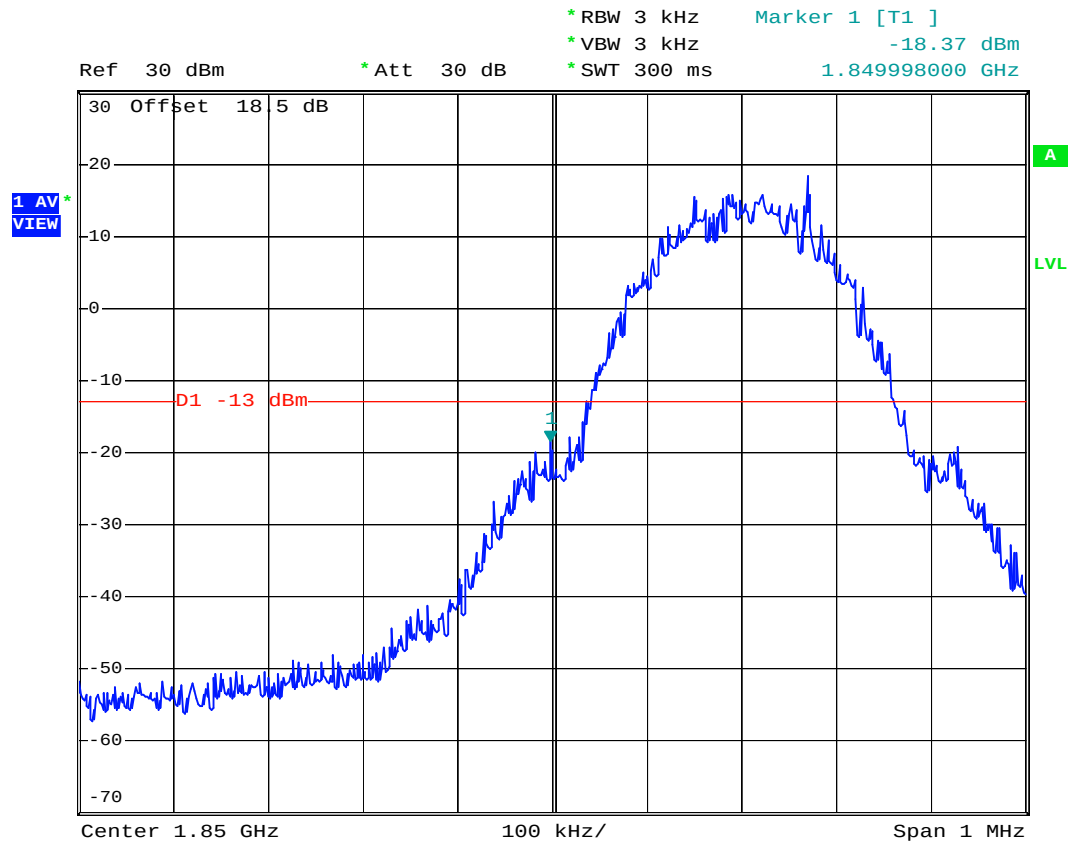
- Test Mode : GSM850 (EDGE) CH251 Higher Band Edge
- Power State : High



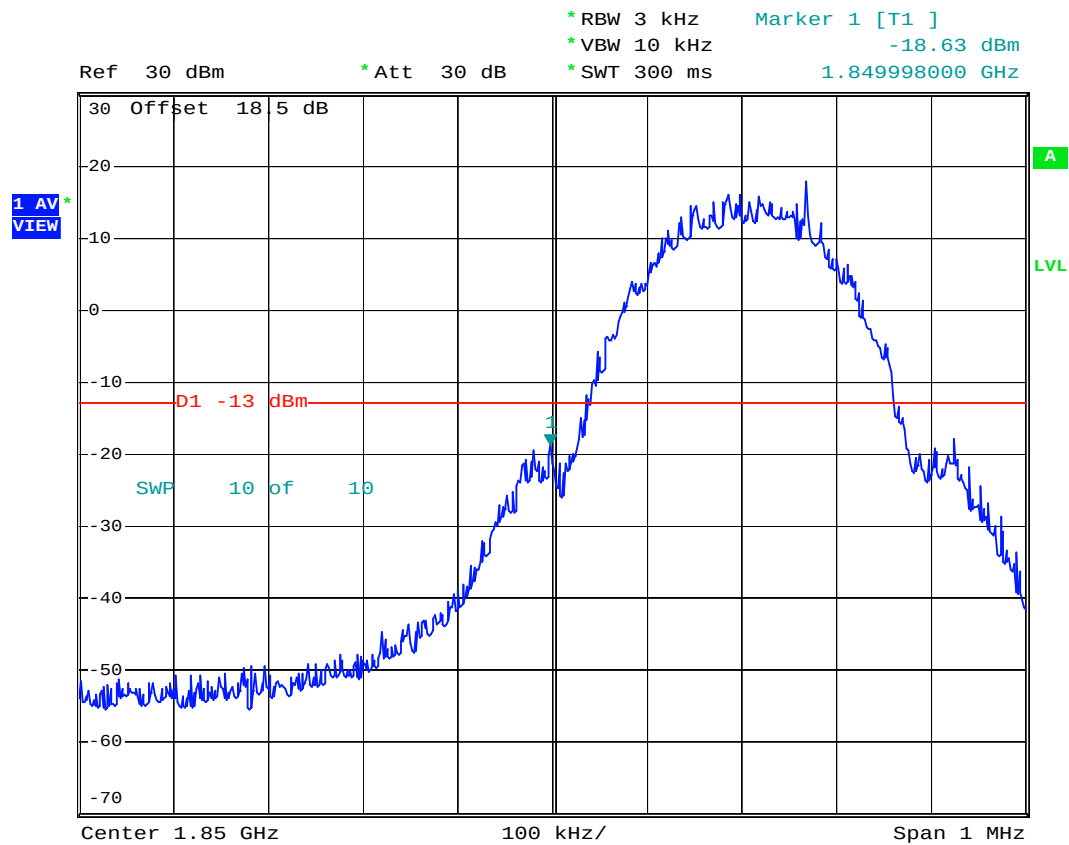
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- Mode 3
- Test Mode : PCS1900 (GSM) CH512 Lower Band Edge
- Power State : High



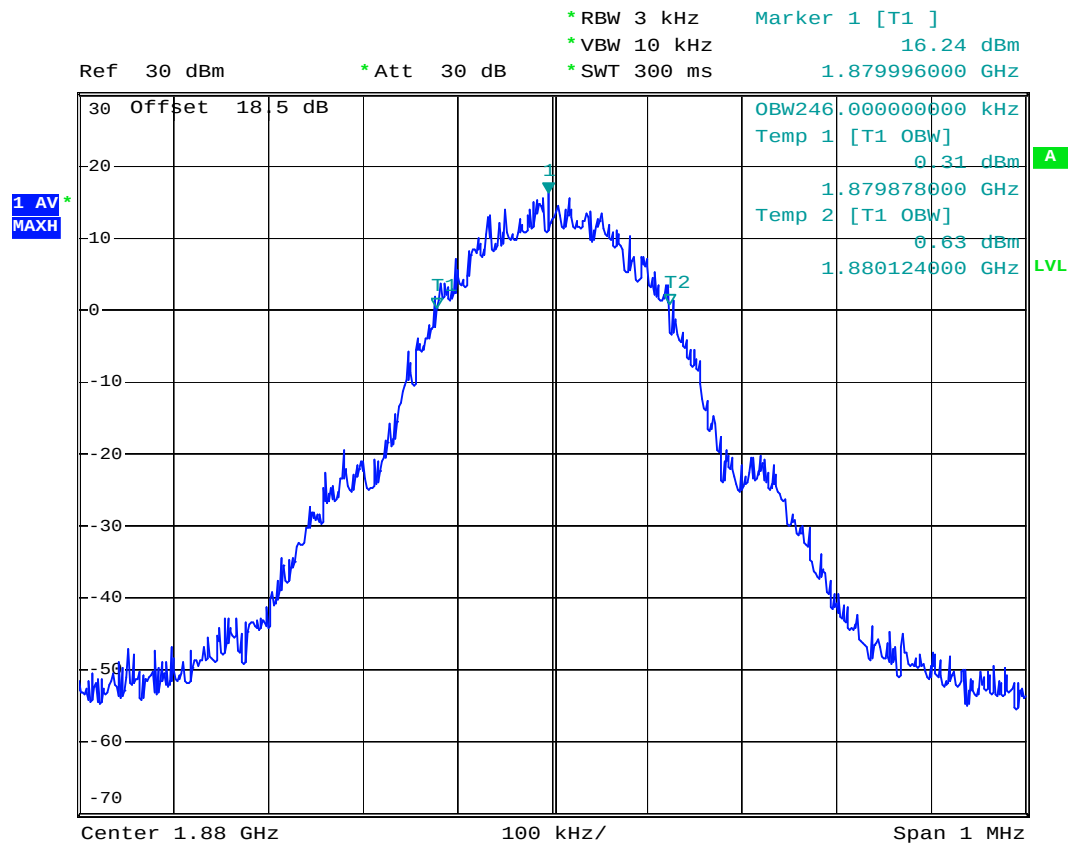
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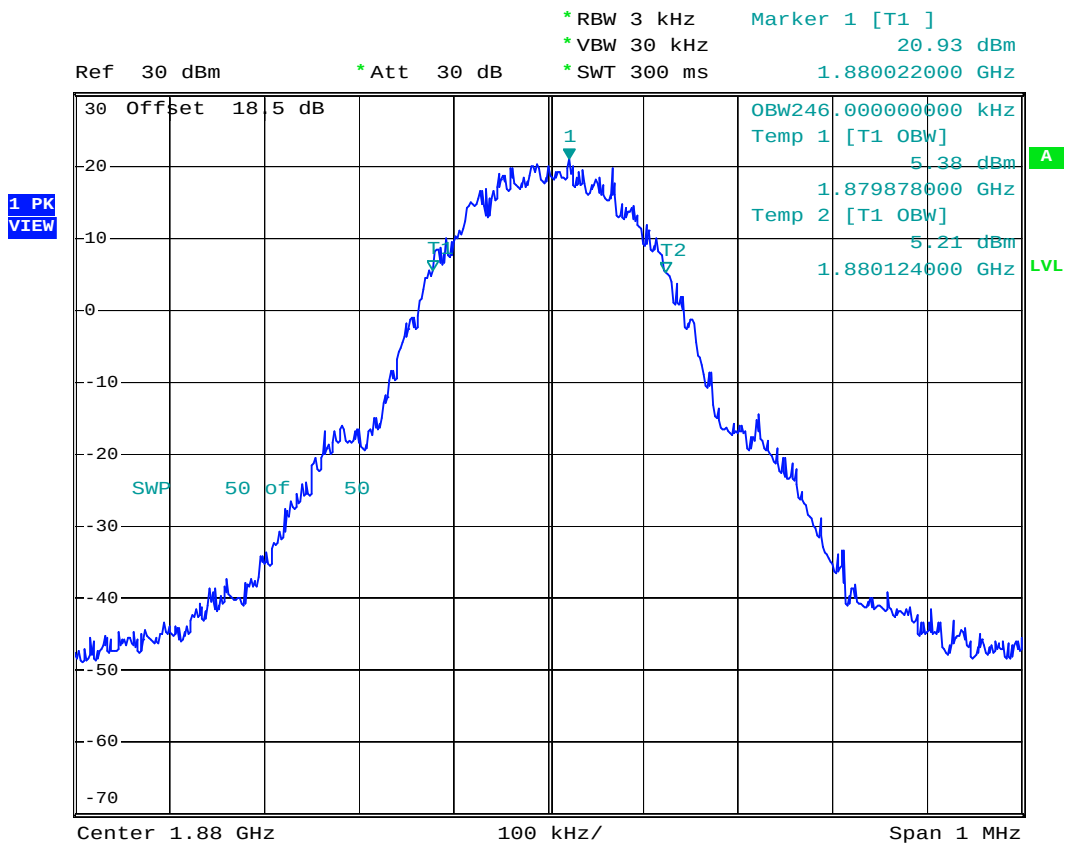
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- Test Mode : PCS1900 (GSM) CH661 99% Occupied Bandwidth
- Power State : High



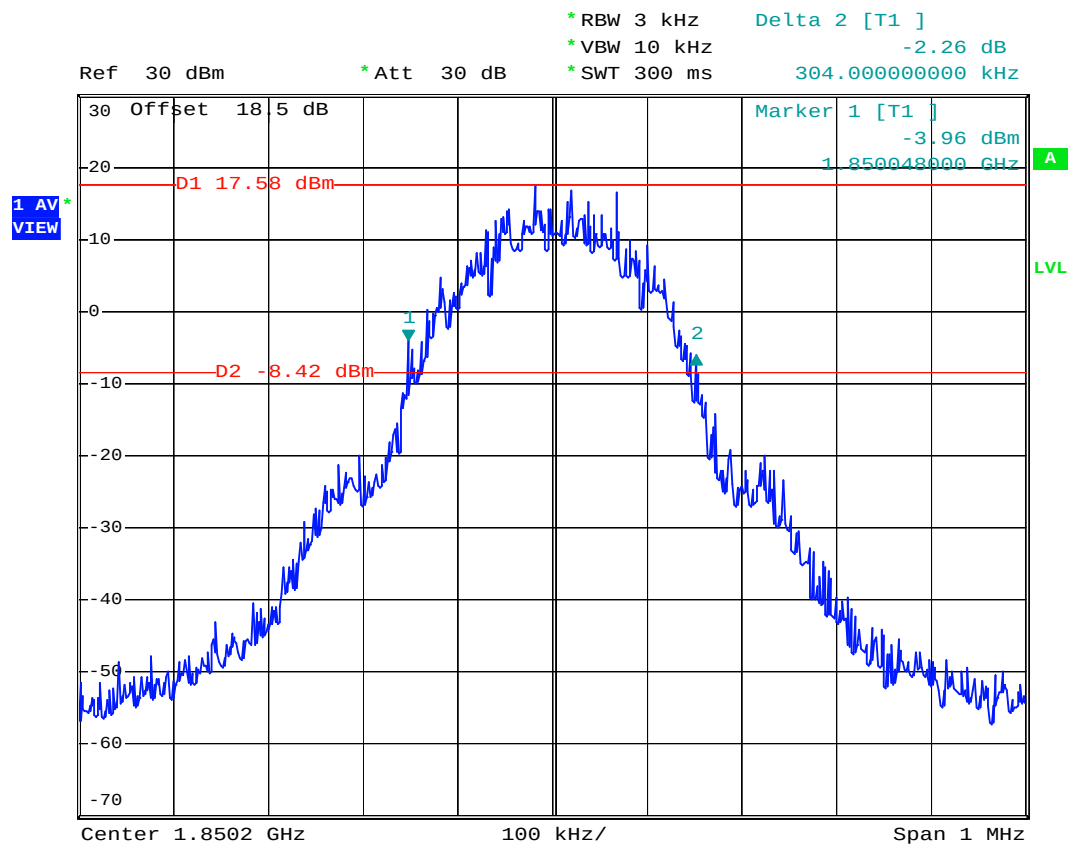
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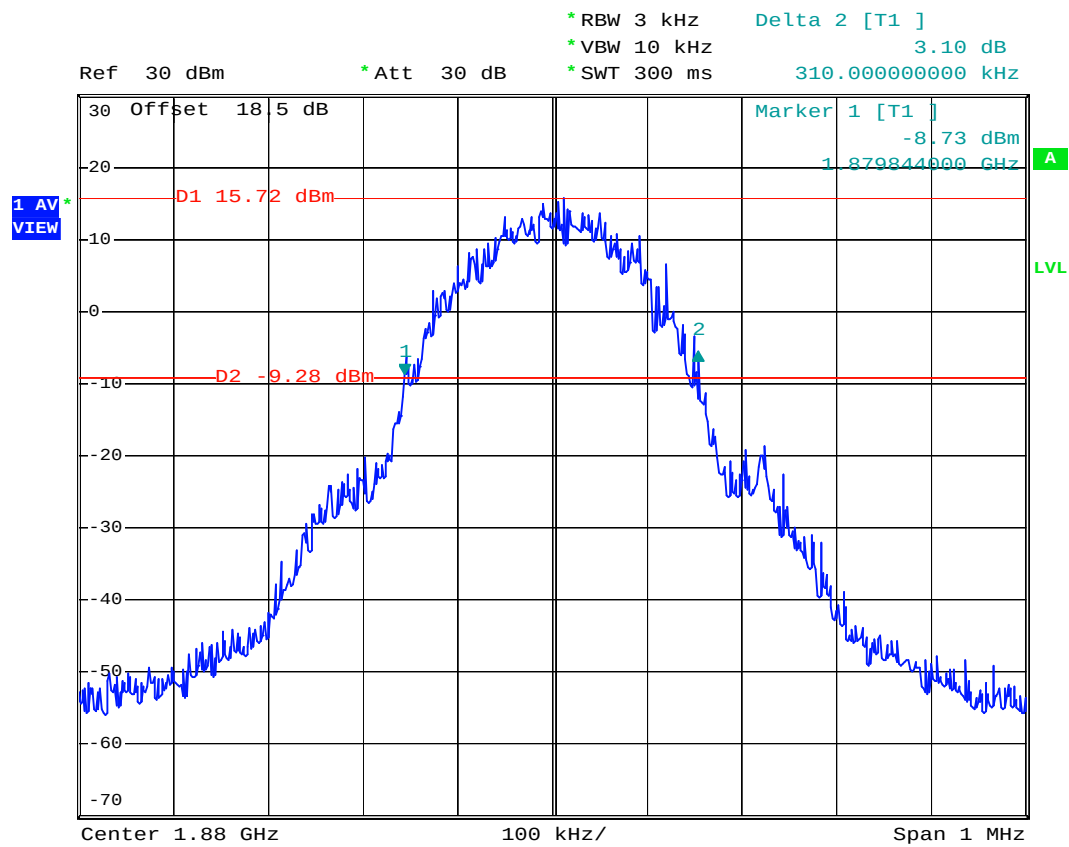
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- Power State : High



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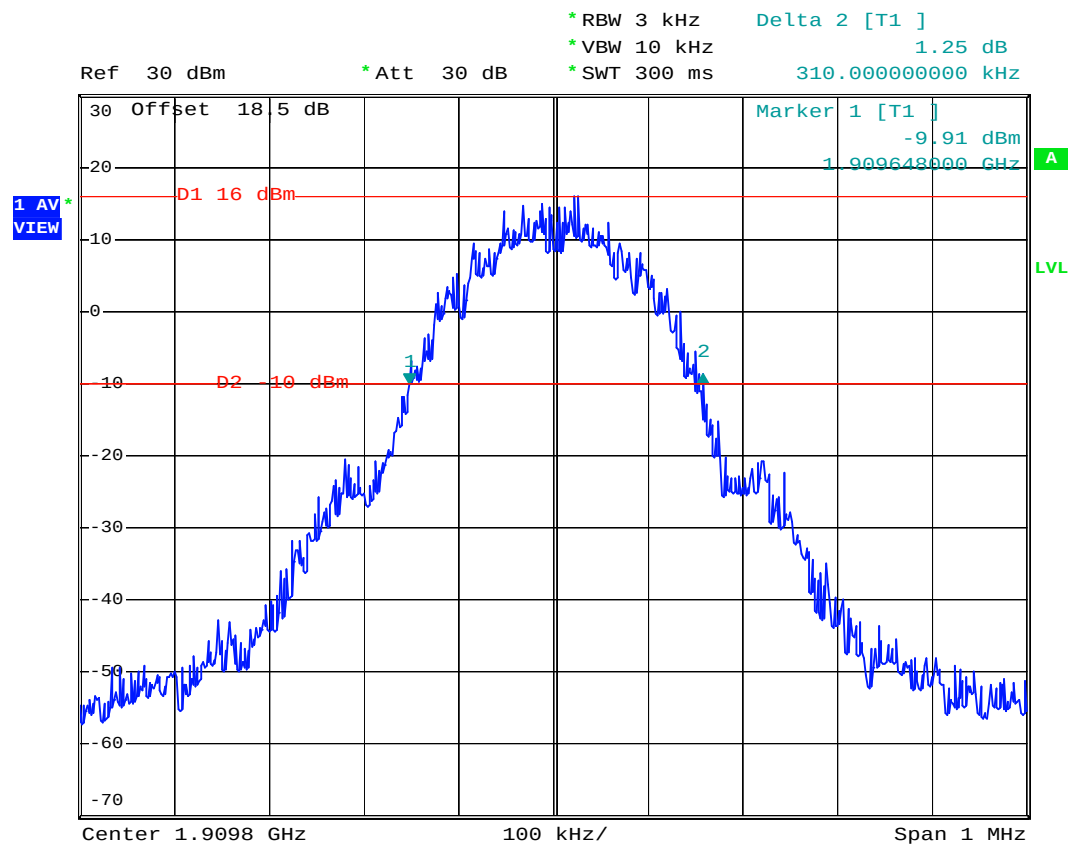
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- Power State : High



Date: 20.JUN.2007 21:23:31



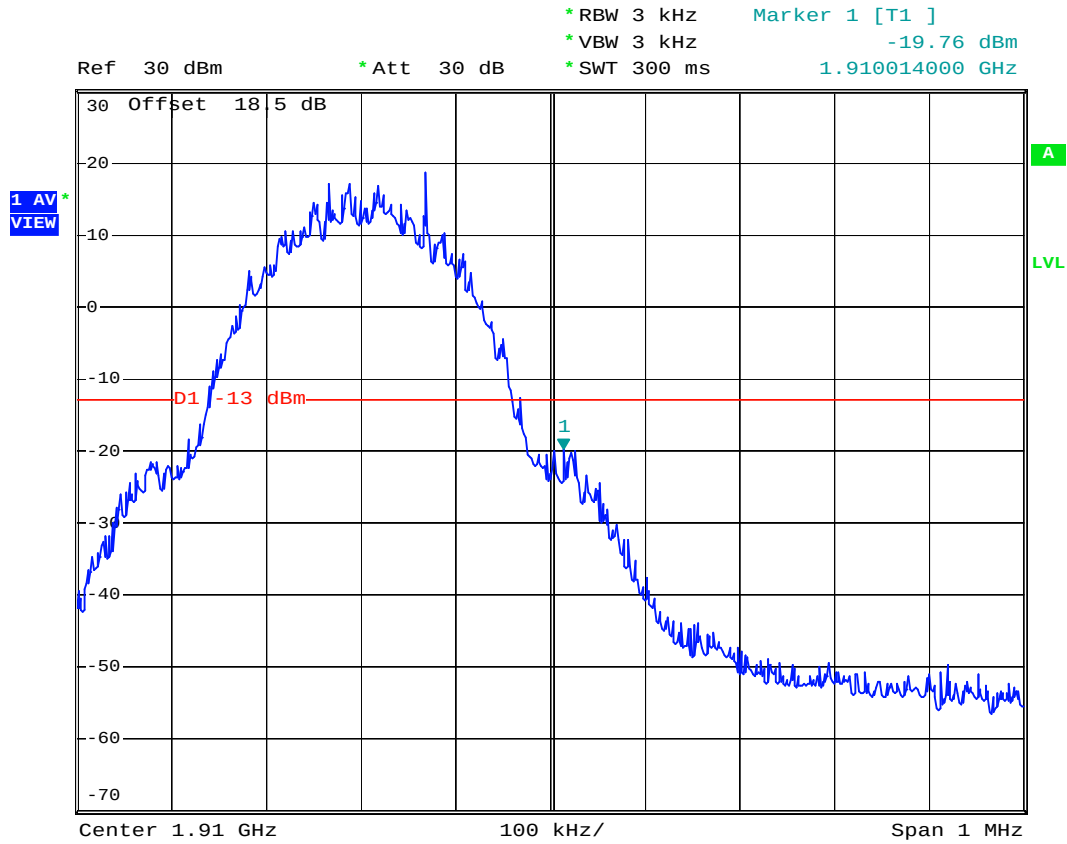
- Test Mode : PCS1900 (GSM) CH810 26dB Occupied Bandwidth
- Power State : High



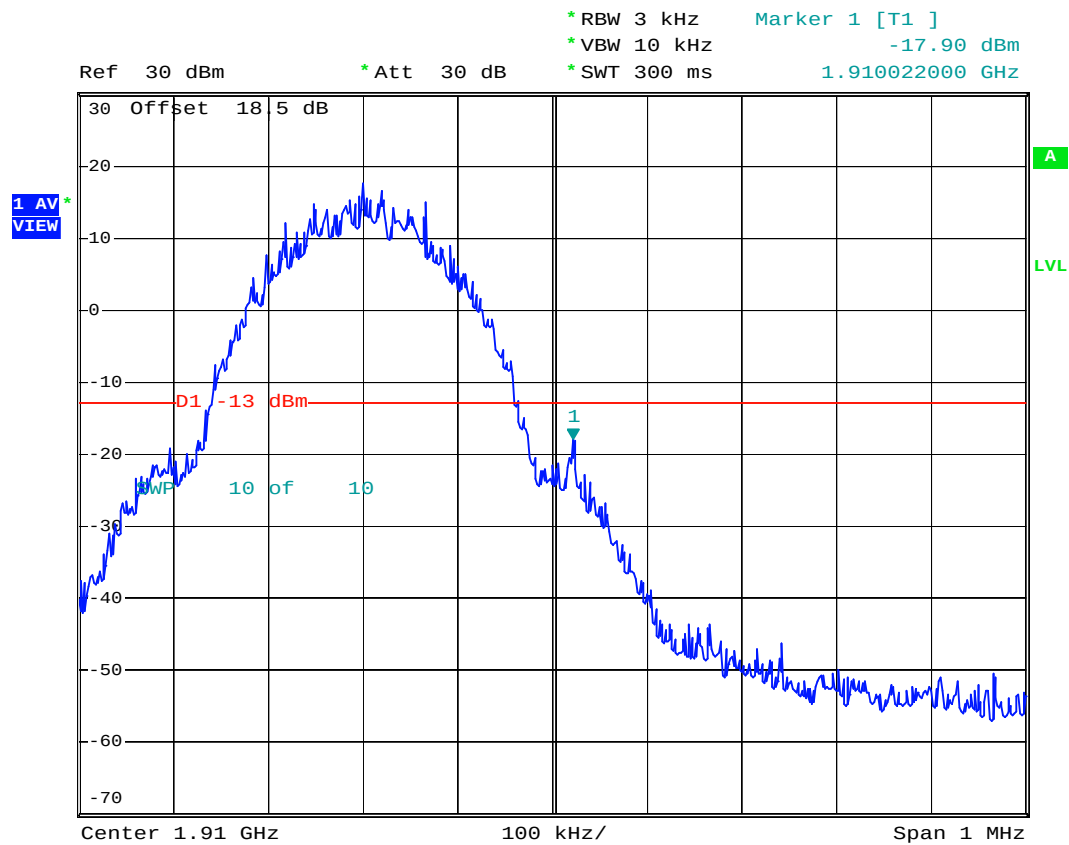
Date: 20.JUN.2007 21:25:00



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



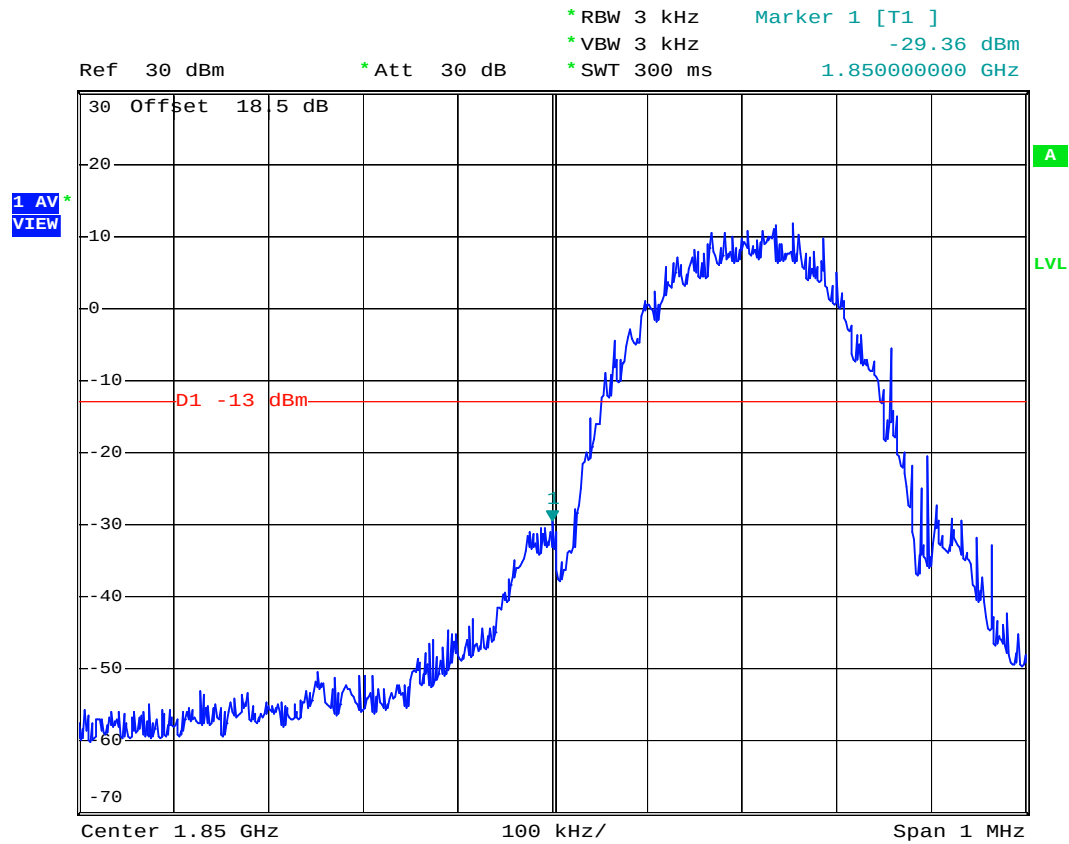
Date: 15.MAY.2007 03:52:36



Date: 15.MAY.2007 03:51:05



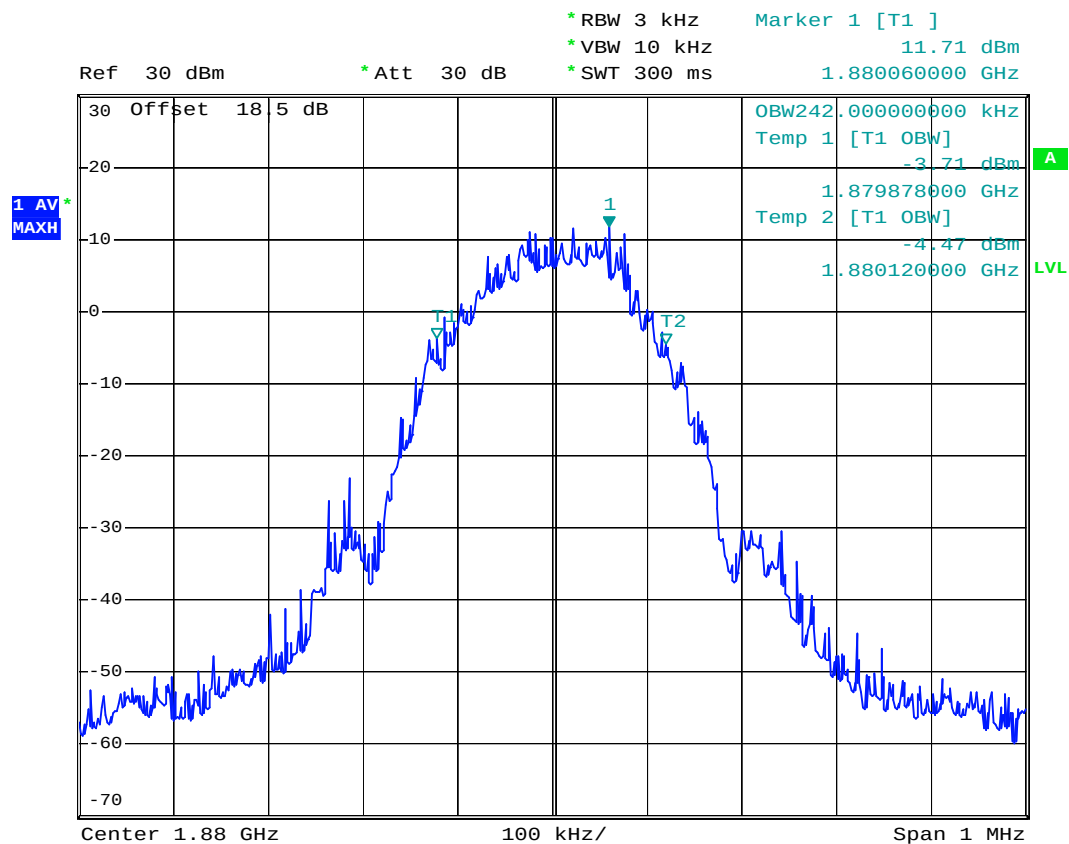
- Mode 4
- Test Mode : PCS1900 (EDGE) CH512 Lower Band Edge
- Power State : High



Date: 14.MAY.2007 18:40:25



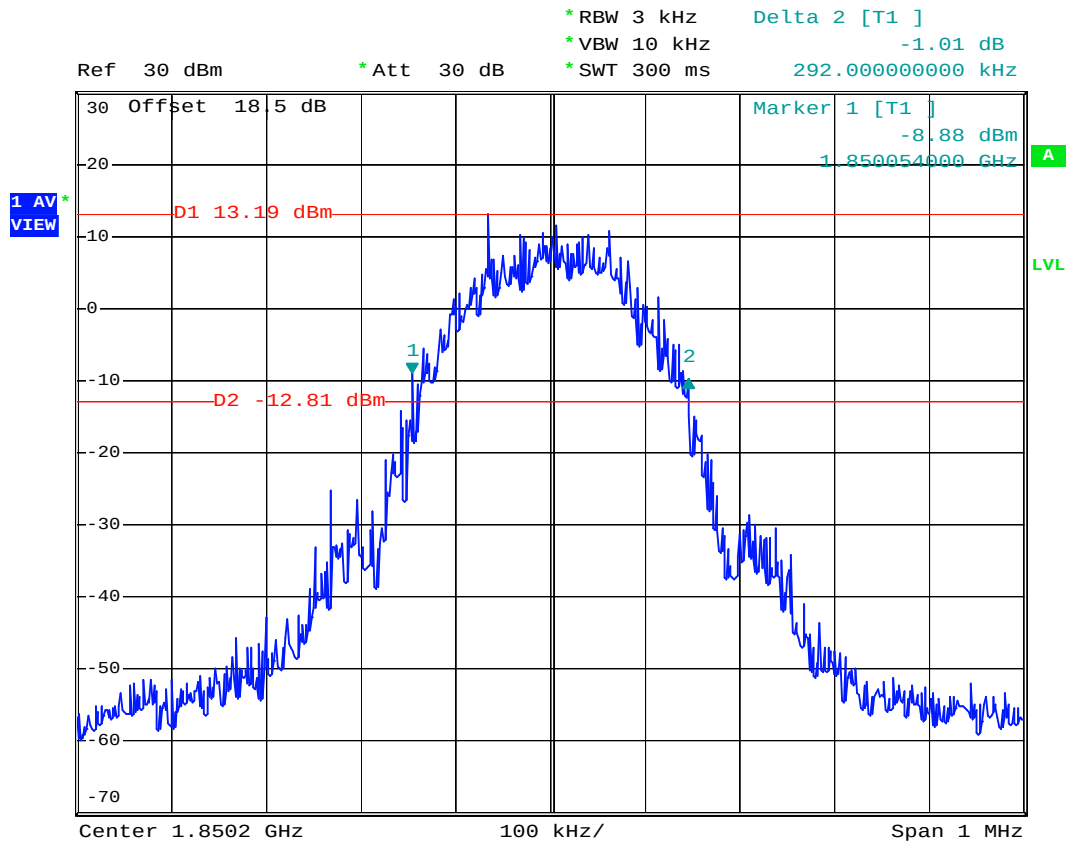
- Test Mode : PCS1900 (EDGE) CH661 99% Occupied Bandwidth
- Power State : High



Date: 20.JUN.2007 21:26:52



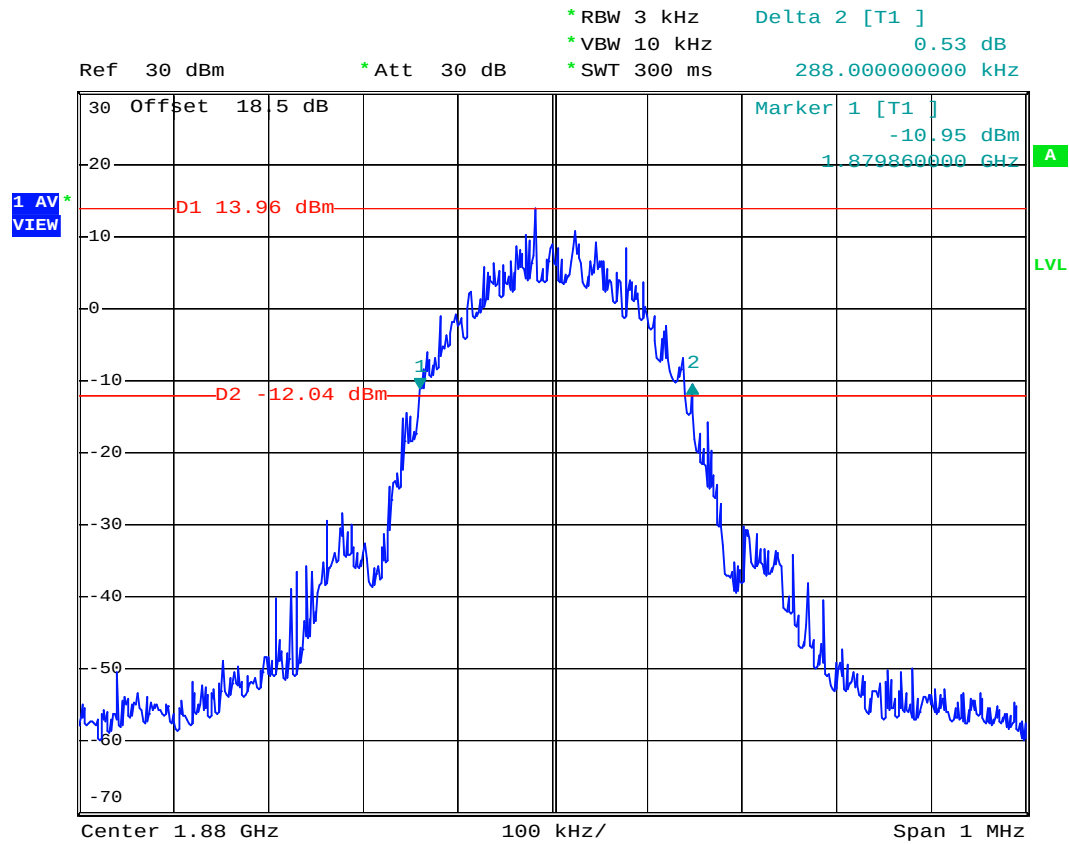
- Test Mode : PCS1900 (EDGE) CH512 26dB Occupied Bandwidth
- Power State : High



Date: 20.JUN.2007 21:27:58



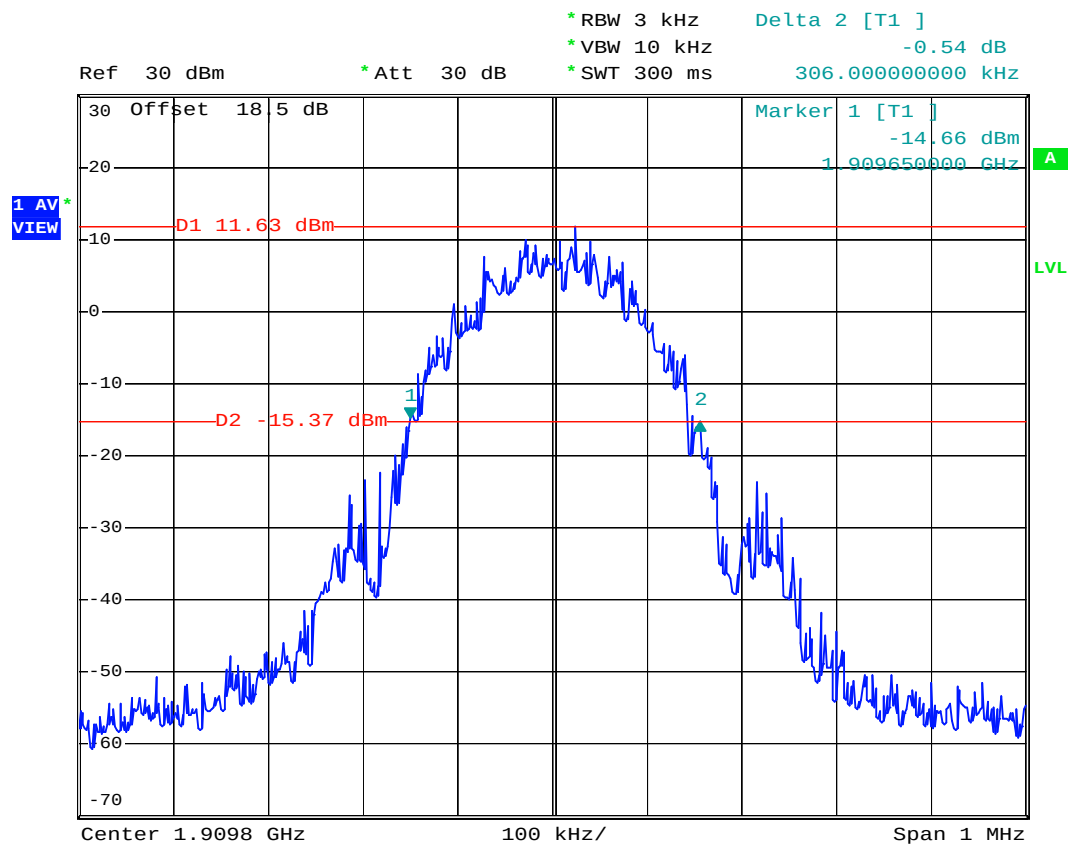
- Test Mode : PCS1900 (EDGE) CH661 26dB Occupied Bandwidth
- Power State : High



Date: 20.JUN.2007 21:28:53



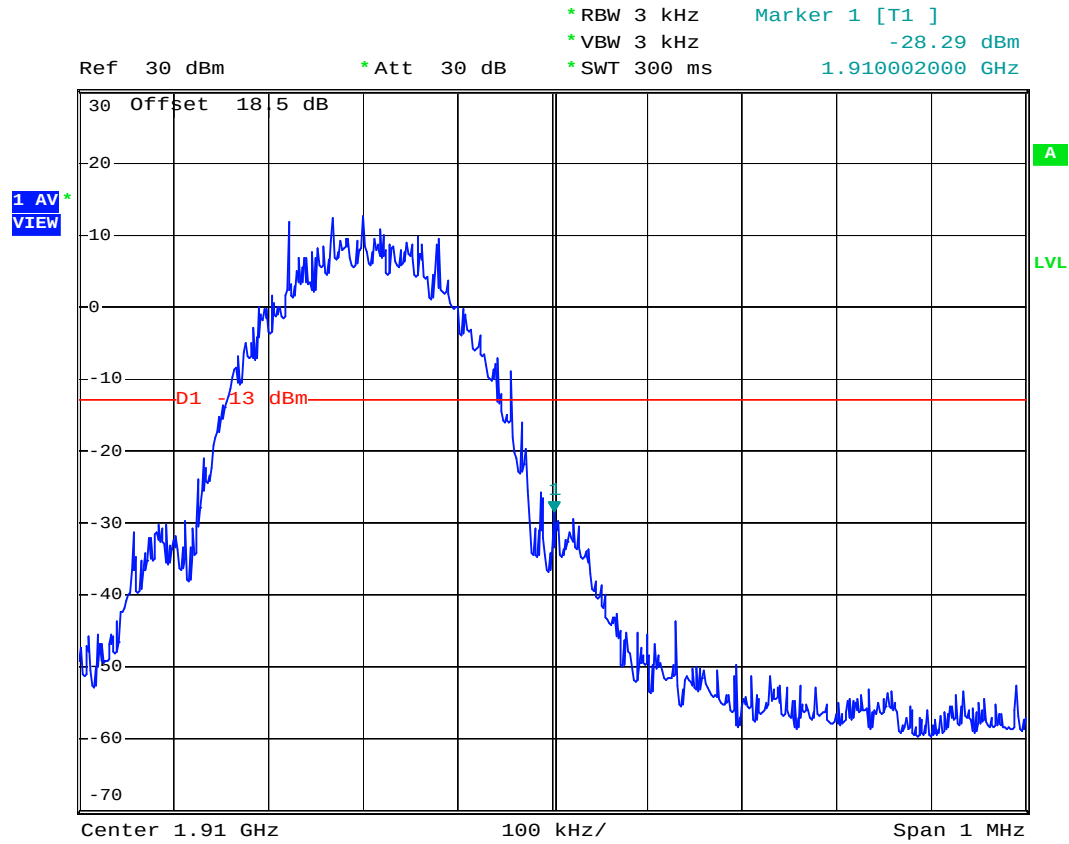
- Test Mode : PCS1900 (EDGE) CH810 26dB Occupied Bandwidth
- Power State : High



Date: 20.JUN.2007 21:30:02



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



Date: 14.MAY.2007 18:42:32

4.5 Conducted Emission

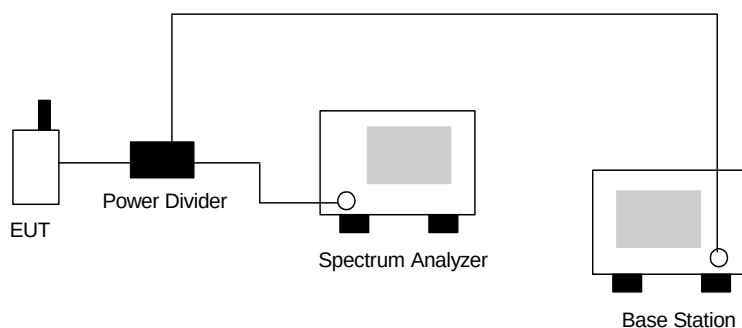
4.5.1 Measurement Instruments

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.

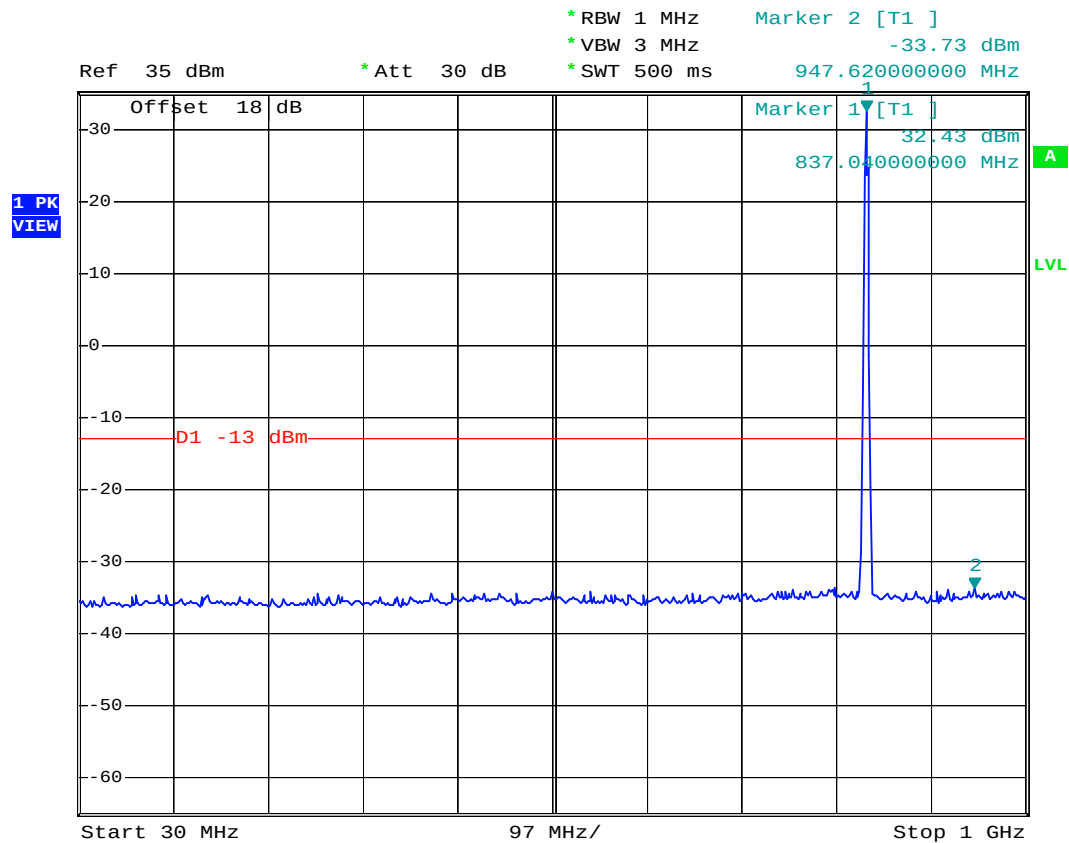
4.5.3 Test Setup Layout





4.5.4 Test Result

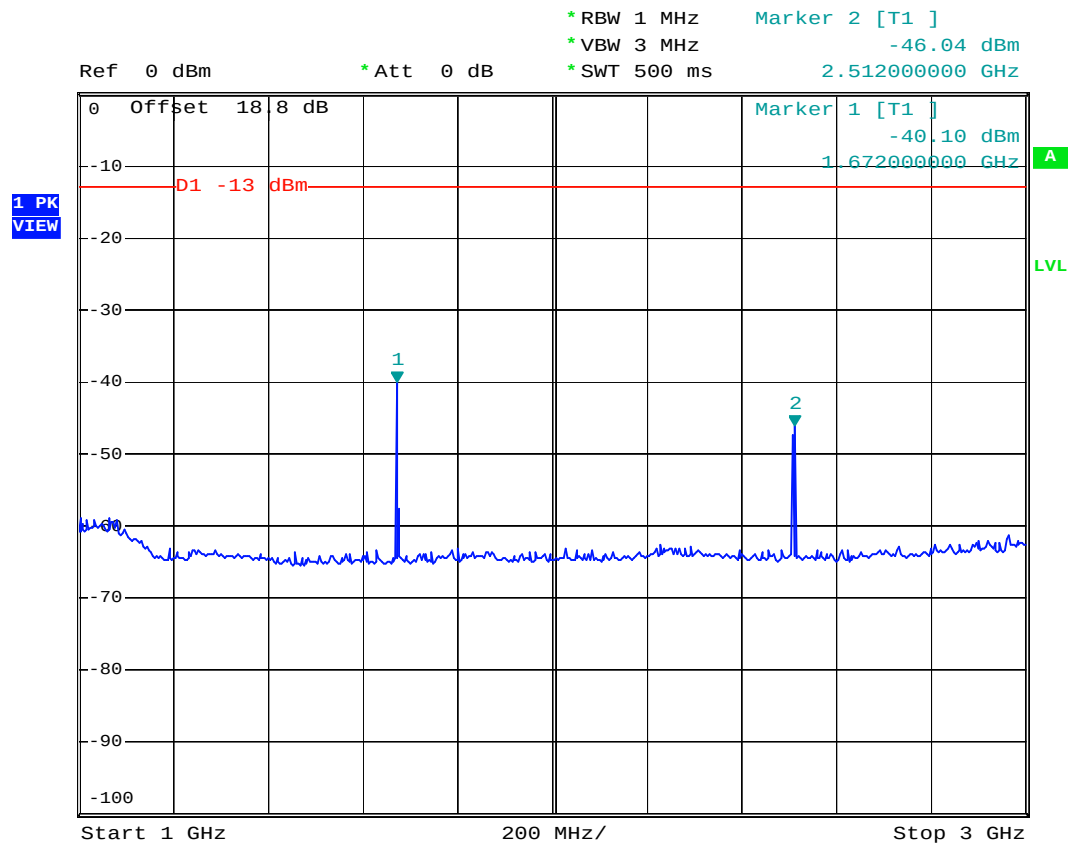
- Mode 1
- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 30M-1G



Date: 15.MAY.2007 03:03:57



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



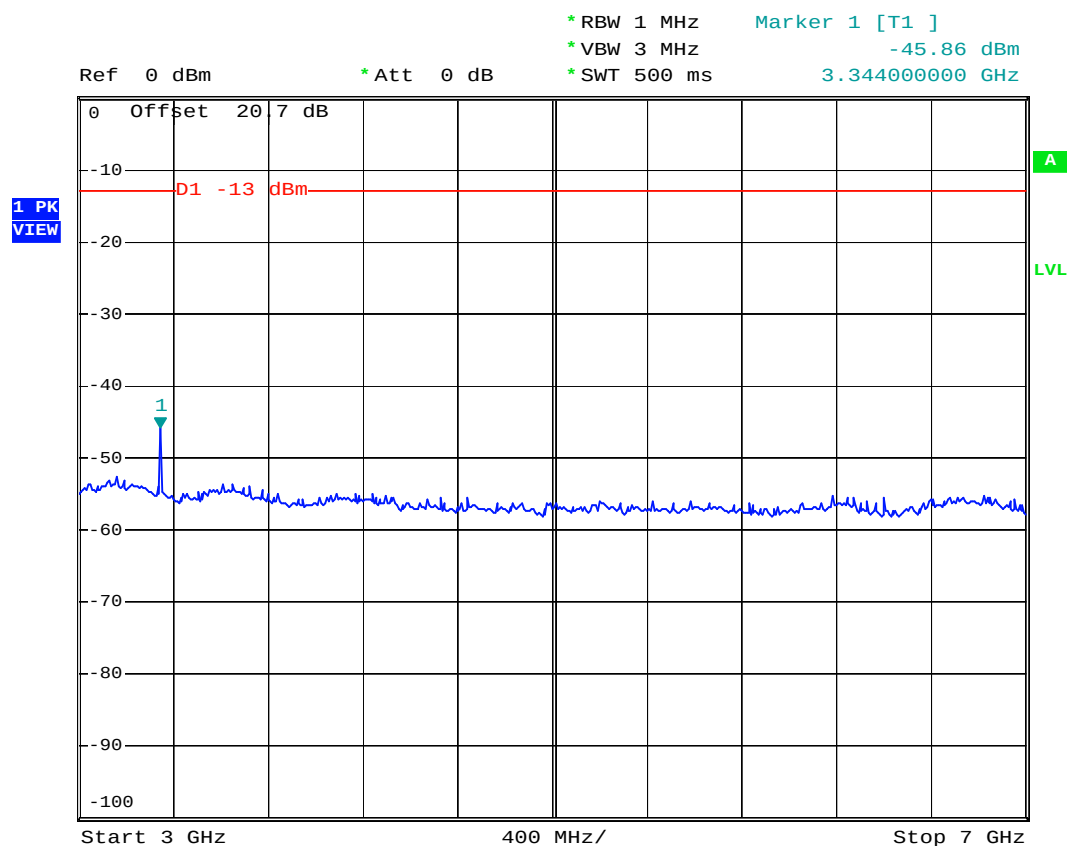
Date: 15.MAY.2007 03:08:03



FCC/IC TEST REPORT

Report No. : FG750805

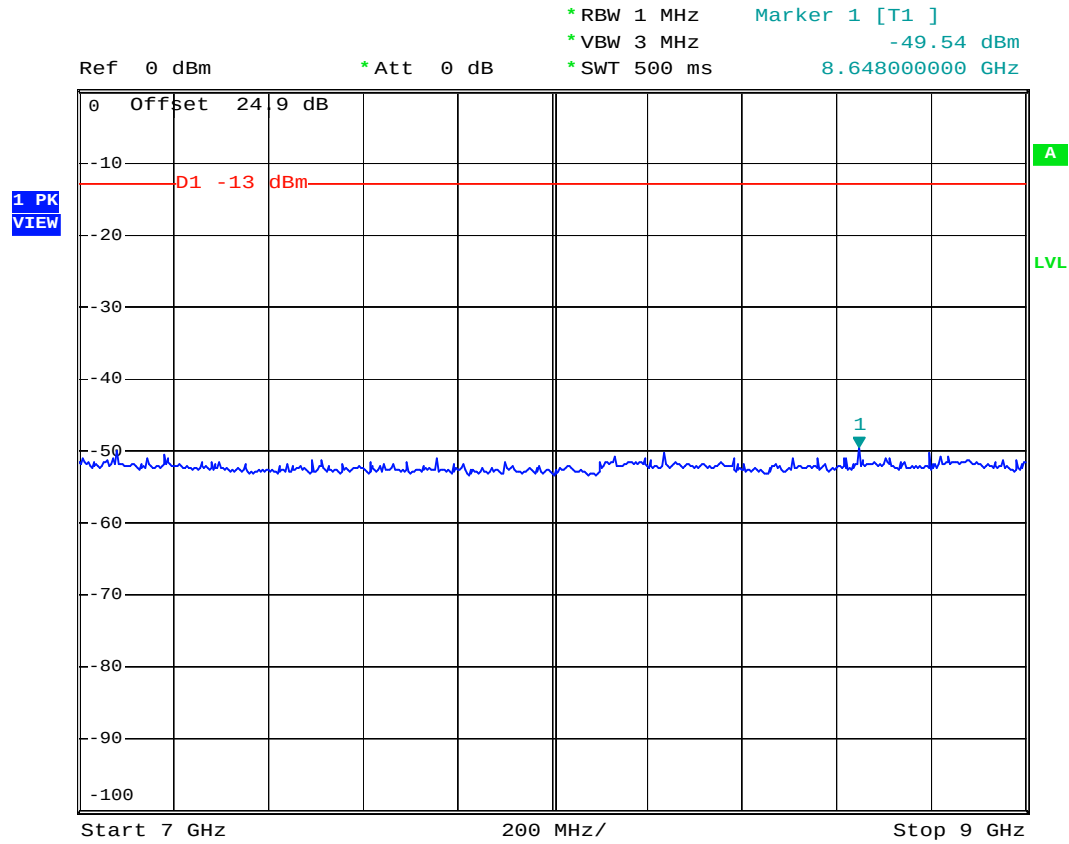
- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 3G-7G



Date: 15.MAY.2007 03:09:47



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



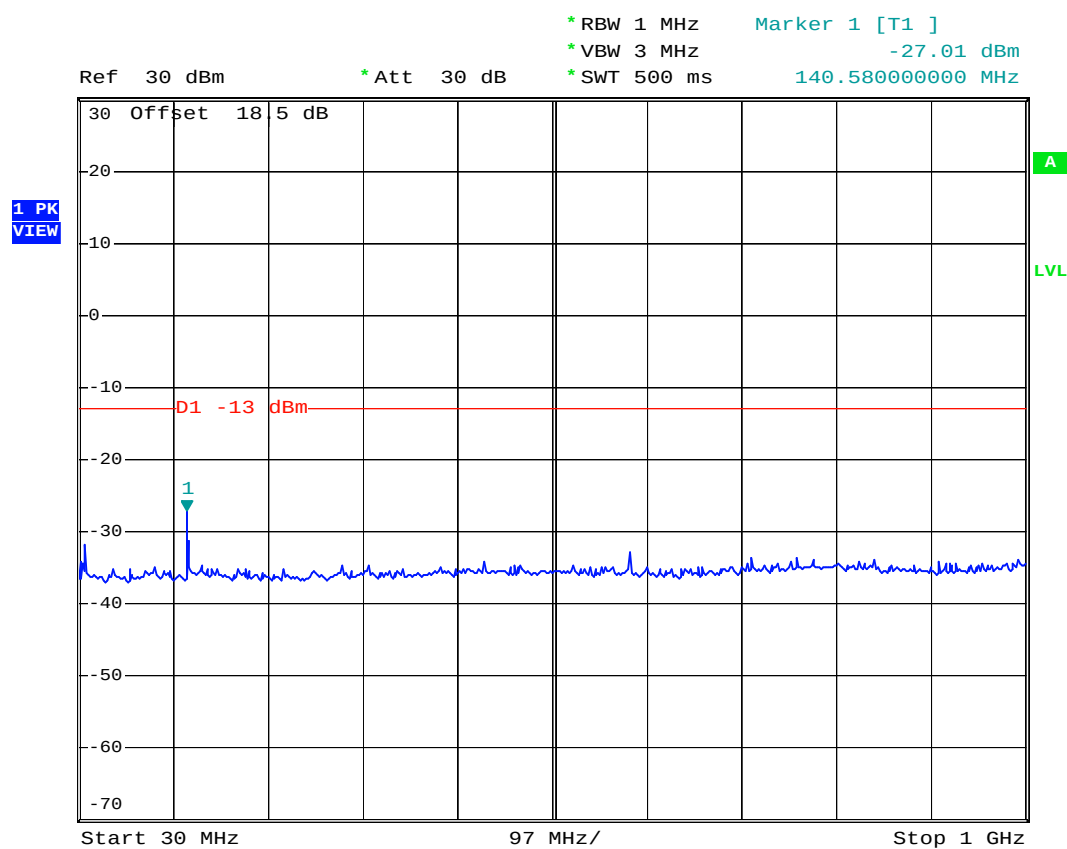
Date: 15.MAY.2007 03:11:44



FCC/IC TEST REPORT

Report No. : FG750805

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



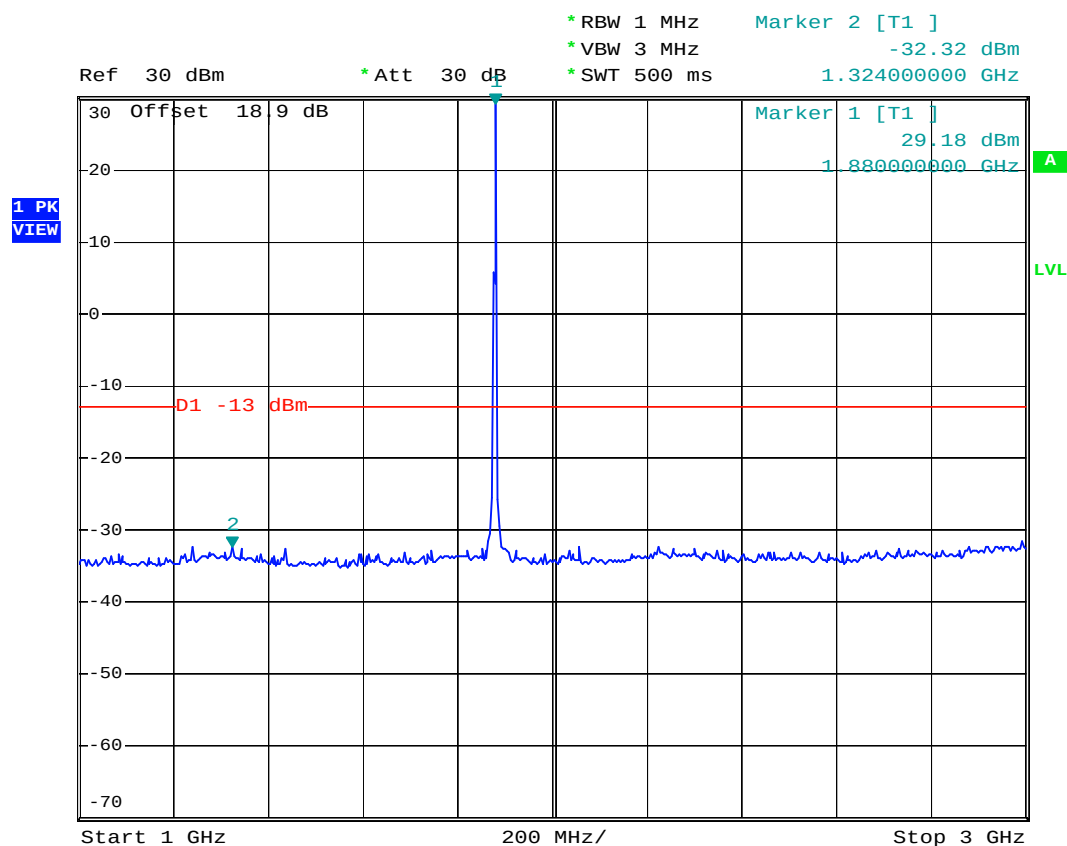
Date: 15.MAY.2007 03:22:28



FCC/IC TEST REPORT

Report No. : FG750805

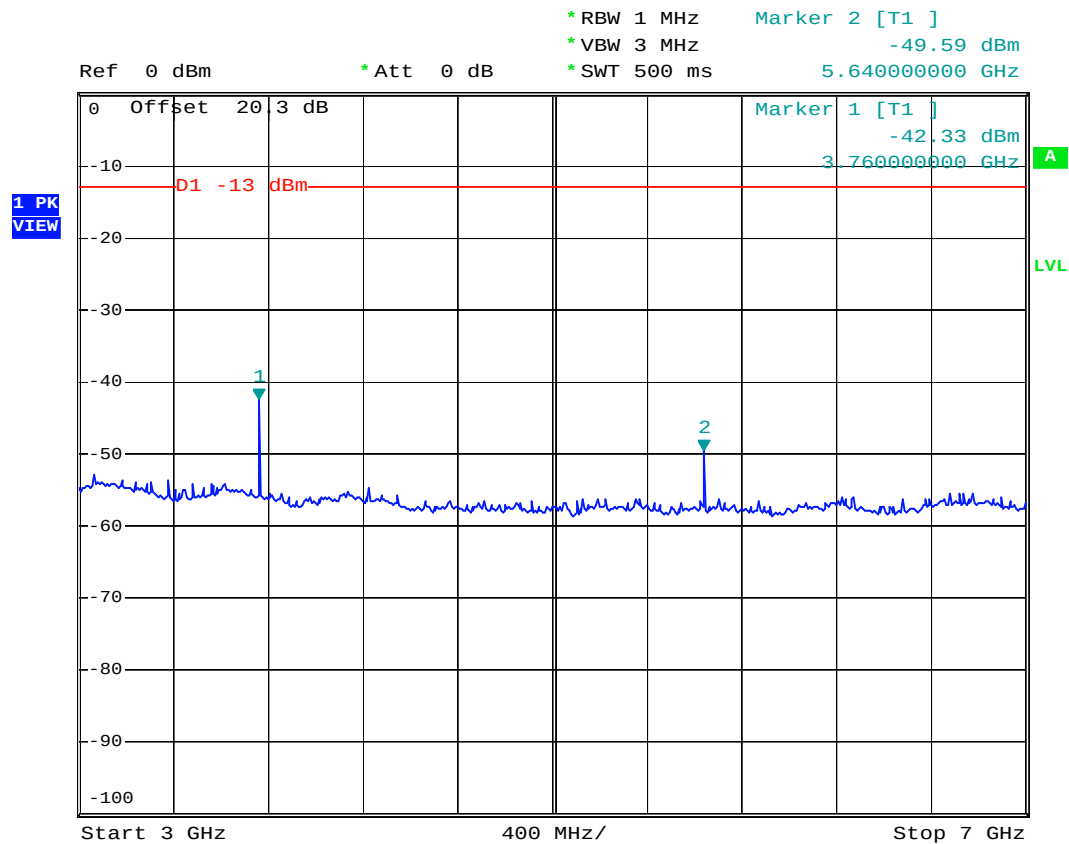
- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 1G-3G



Date: 15.MAY.2007 03:24:26



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



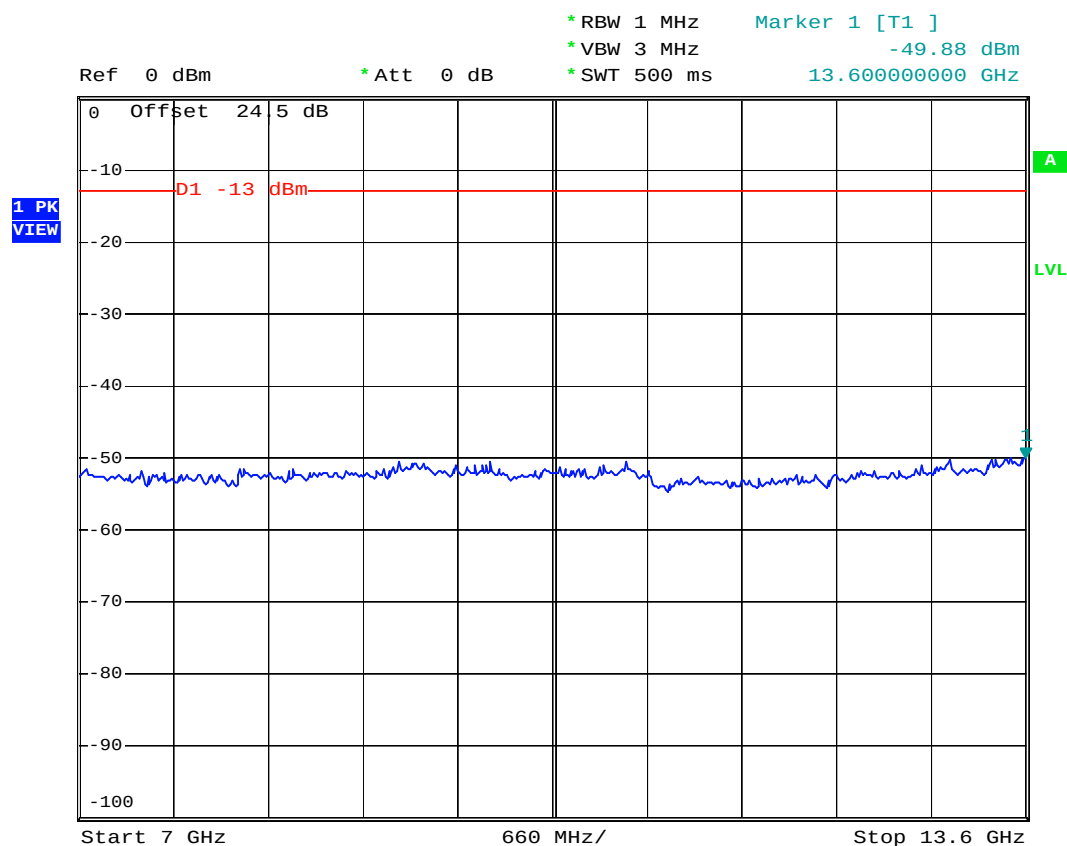
Date: 15.MAY.2007 03:27:13



FCC/IC TEST REPORT

Report No. : FG750805

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



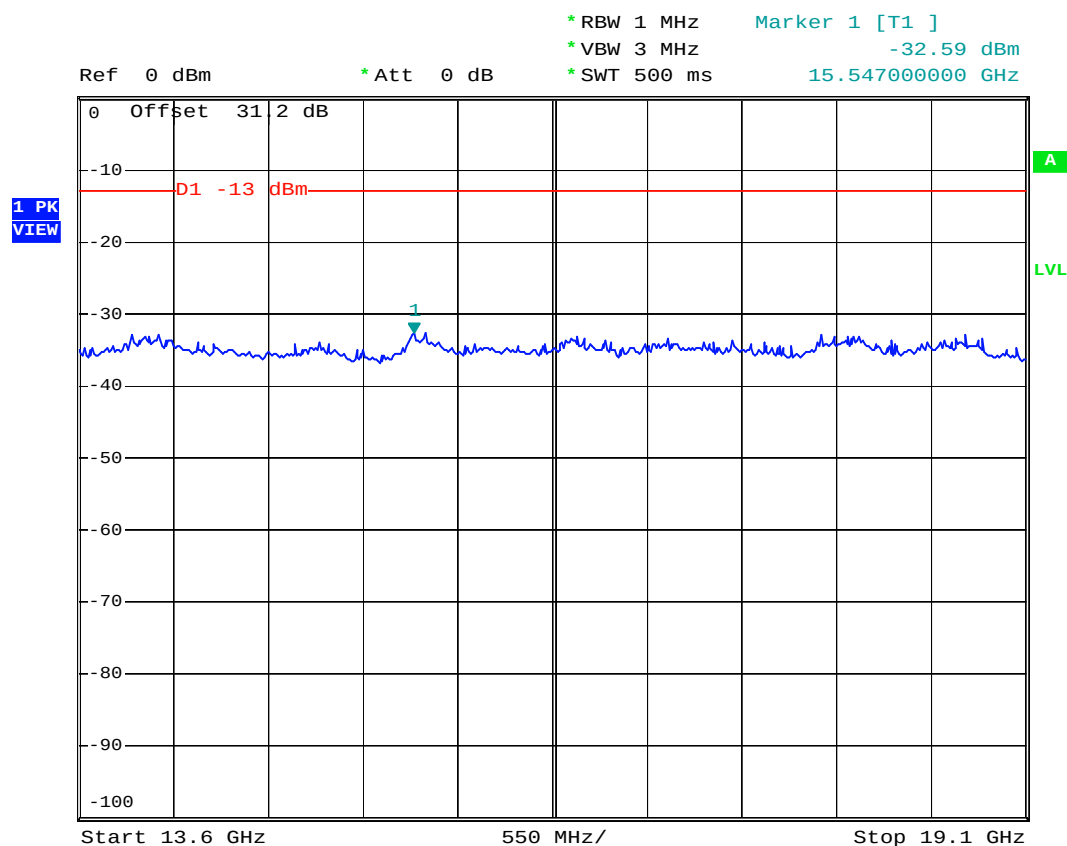
Date: 15.MAY.2007 03:28:38



FCC/IC TEST REPORT

Report No. : FG750805

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



Date: 15.MAY.2007 03:29:40

4.6 Field Strength of Spurious Radiation

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

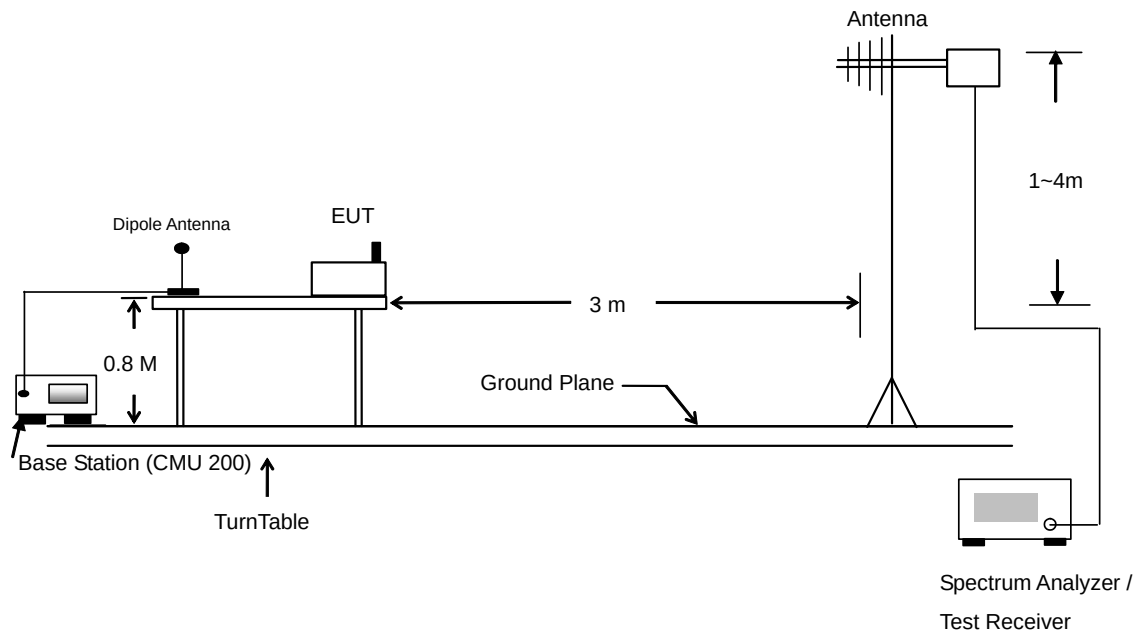
4.6.1 Measurement Instruments

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)
38.640	-58.950	-13	-45.95	33.240	-51.460	-13	-38.46
62.130	-51.210	-13	-38.21	63.480	-45.590	-13	-32.59
82.380	-53.420	-13	-40.42	71.580	-51.580	-13	-38.58
931.400	-65.320	-13	-52.32	987.400	-63.550	-13	-50.55
1674.000	-48.950	-13	-35.95	1674.000	-58.140	-13	-45.14
2508.000	-57.940	-13	-44.94	2508.000	-59.230	-13	-46.23
				4184.000	-54.740	-13	-41.74

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)
33.780	-59.650	-13	-46.65	33.240	-52.790	-13	-39.79
62.130	-50.740	-13	-37.74	62.940	-46.830	-13	-33.83
81.030	-53.190	-13	-40.19	71.580	-52.150	-13	-39.15
962.900	-65.870	-13	-52.87	987.400	-63.460	-13	-50.46
1674.000	-55.470	-13	-42.47	1674.000	-59.640	-13	-46.64
2508.000	-57.940	-13	-44.94				



▪ 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)
33.240	-56.660	-13	-43.66	33.780	-49.240	-13	-36.24
62.940	-49.160	-13	-36.16	64.290	-44.750	-13	-31.75
79.680	-50.600	-13	-37.60	71.580	-49.500	-13	-36.50
798.400	-65.290	-13	-52.29	827.800	-61.690	-13	-48.69
868.400	-64.730	-13	-51.73	922.300	-62.180	-13	-49.18
950.300	-63.800	-13	-50.80	969.900	-61.390	-13	-48.39
				3758.000	-53.420	-13	-40.42

▪ 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)
39.180	-58.470	-13	-45.47	33.780	-50.440	-13	-37.44
62.940	-49.180	-13	-36.18	62.940	-46.800	-13	-33.80
81.030	-49.710	-13	-36.71	72.660	-53.900	-13	-40.90
358.800	-65.550	-13	-52.55	852.300	-61.300	-13	-48.30
939.800	-64.360	-13	-51.36	964.300	-61.500	-13	-48.50
995.800	-64.110	-13	-51.11	987.400	-61.360	-13	-48.36

- Test Mode : Mode 5

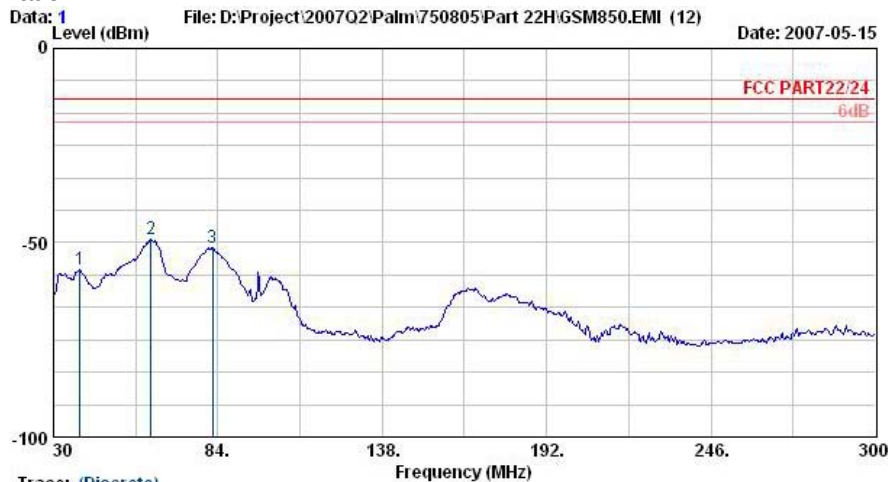
GSM850 (GSM) with BT Co-location Radiated Spurious ERP							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
33.240	-52.910	-13	-39.91	39.180	-52.350	-13	-39.35
52.680	-51.960	-13	-38.96	61.590	-44.740	-13	-31.74
79.680	-52.280	-13	-39.28	86.160	-51.520	-13	-38.52
943.300	-65.300	-13	-52.30	988.800	-62.810	-13	-49.81
1384.000	-56.750	-13	-43.75	1498.000	-58.440	-13	-45.44
1674.000	-46.920	-13	-33.92	1674.000	-55.730	-13	-42.73
2508.000	-57.580	-13	-44.58	2508.000	-58.230	-13	-45.23
				3344.000	-57.120	-13	-44.12



4.6.5 Test Data

4.6.5.1 Mode 1

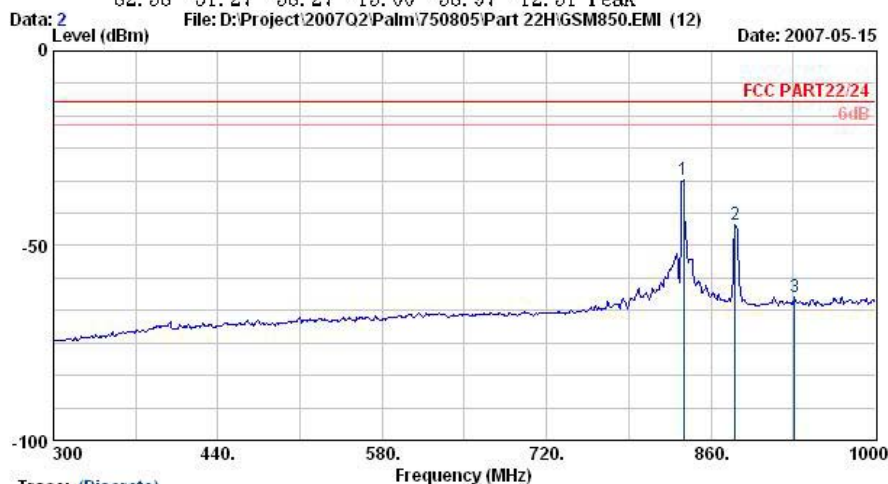
Horizontal Polarization



Trace: (Discrete)

Site : 03CH06-HV
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FC 750805
Memo : GSM 850 Link;Ch189+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	38.64	-56.80	-43.80	-13.00	-51.68	-5.12 Peak
2 @	62.13	-49.06	-36.06	-13.00	-36.67	-12.39 Peak
3 @	82.38	-51.27	-38.27	-13.00	-38.97	-12.31 Peak



Trace: (Discrete)

Site : 03CH06-HV
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FC 750805
Memo : GSM 850 Link;Ch189+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	836.90	-33.20			-31.86	-1.33 Peak
2 @	880.30	-44.67			-43.75	-0.91 Peak
3	931.40	-63.17	-50.17	-13.00	-62.74	-0.43 Peak

Remark:

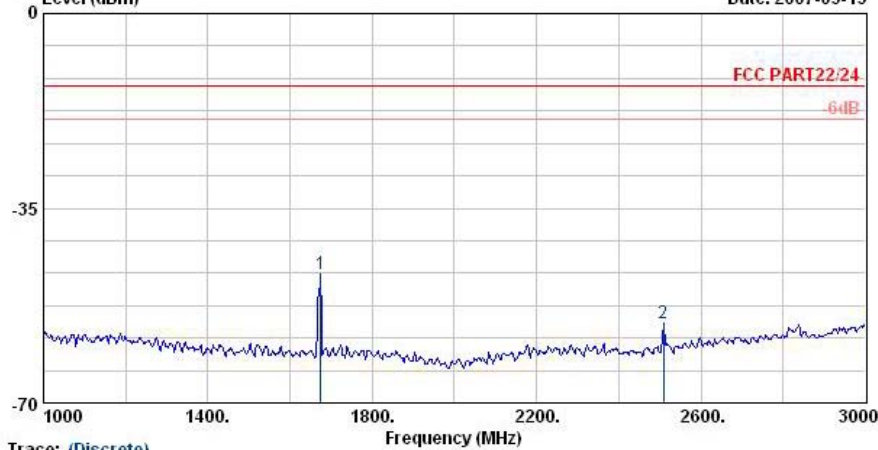
1. #1: MS Signal
2. #2: BS Signal



FCC/IC TEST REPORT

Report No. : FG750805

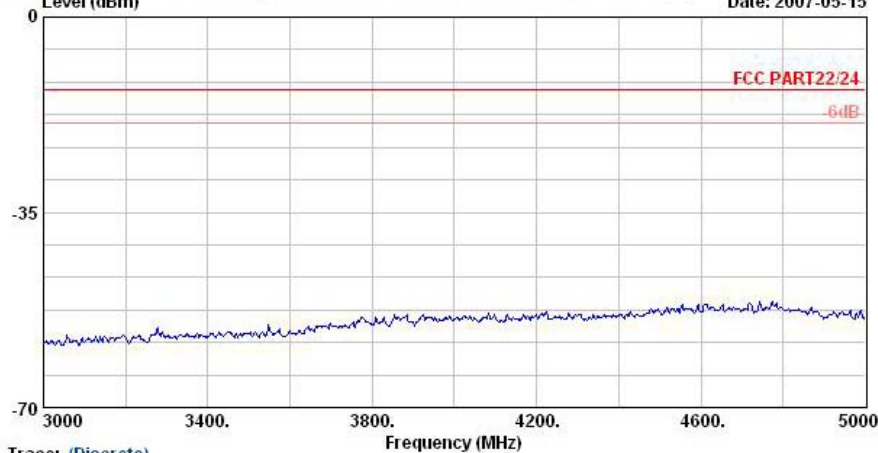
Data: 3 File: D:\Project\200702\Palm\750805\Part 22H\GSM850.EMI (12) Date: 2007-05-15



Trace: (Discrete)
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dBm	dB	dBm	dBm	dB
1 @	1674.00	-46.80	-33.80	-13.00	-47.02	0.22 Peak
2 @	2508.00	-55.79	-42.79	-13.00	-56.99	1.20 Peak

Data: 4 File: D:\Project\200702\Palm\750805\Part 22H\GSM850.EMI (12) Date: 2007-05-15

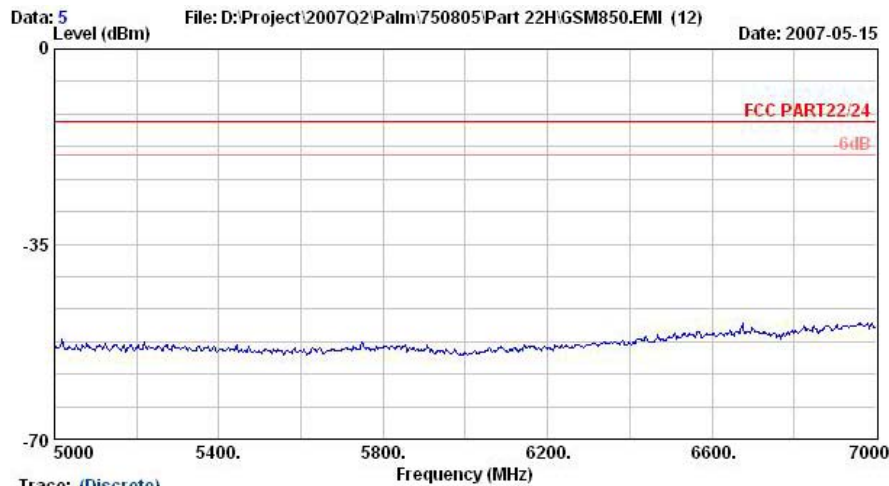


Trace: (Discrete)
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347



FCC/IC TEST REPORT

Report No. : FG750805



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch180+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

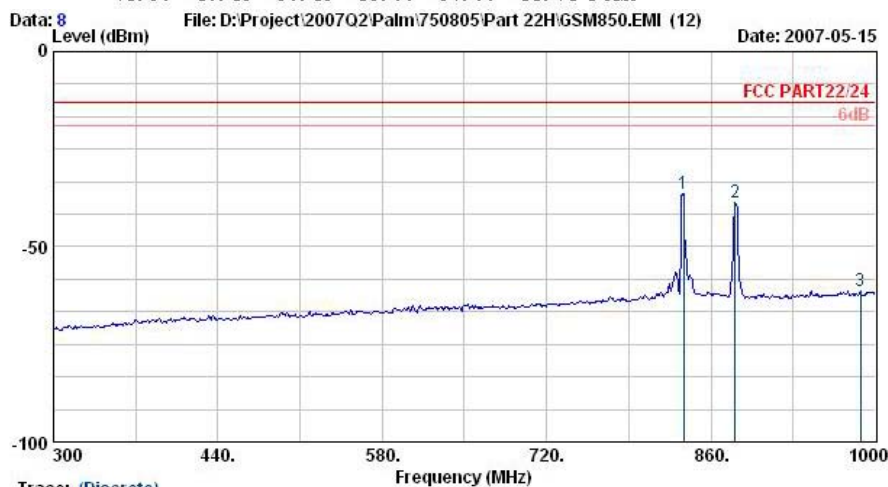


Vertical Polarization



Trace: (Discrete)
Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	33.24	-49.31	-36.31	-13.00	-39.41	-9.89 Peak
2 @	63.48	-43.44	-30.44	-13.00	-30.57	-12.86 Peak
3 @	71.58	-49.43	-36.43	-13.00	-37.69	-11.74 Peak



Trace: (Discrete)
Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	836.90	-36.38			-37.75	1.36 Peak
2 @	880.30	-38.54			-40.25	1.71 Peak
3 @	987.40	-61.40	-48.40	-13.00	-63.96	2.56 Peak

Remark:

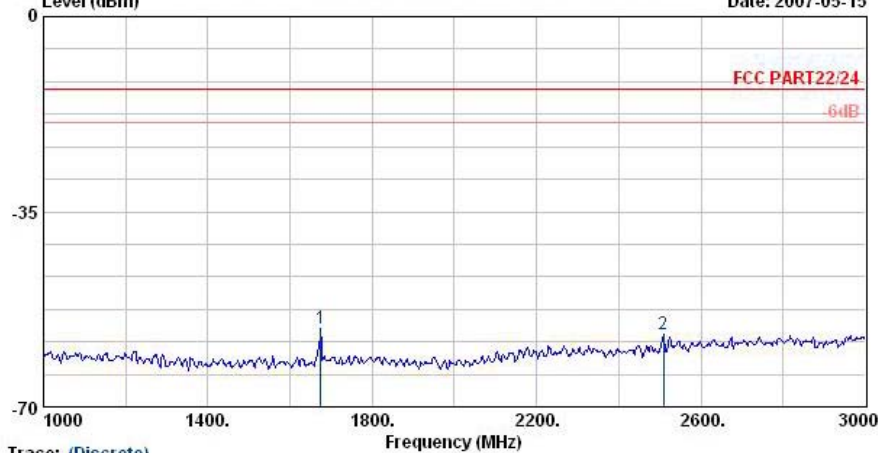
- #1: MS Signal
- #2: BS Signal



FCC/IC TEST REPORT

Report No. : FG750805

Data: 9 Level (dBm) File: D:\Project\2007Q2\Palm\750805\Part 22H\GSM850.EMI (12) Date: 2007-05-15

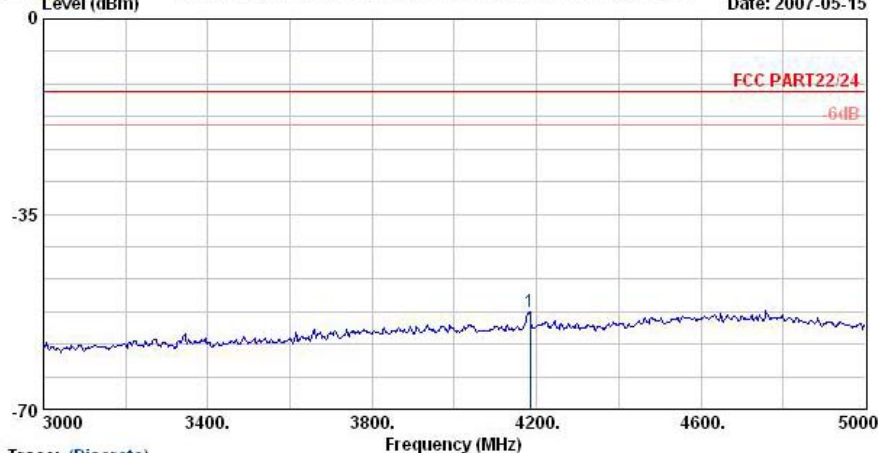


Trace: (Discrete)

Site : 03CH06-HV
Condition : HF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dBm	dB	dBm	dBm	dB
1 @	1674.00	-55.99	-42.99	-13.00	-55.51	-0.48 Peak
2	2508.00	-57.08	-44.08	-13.00	-59.35	2.27 Peak

Data: 10 Level (dBm) File: D:\Project\2007Q2\Palm\750805\Part 22H\GSM850.EMI (12) Date: 2007-05-15



Trace: (Discrete)

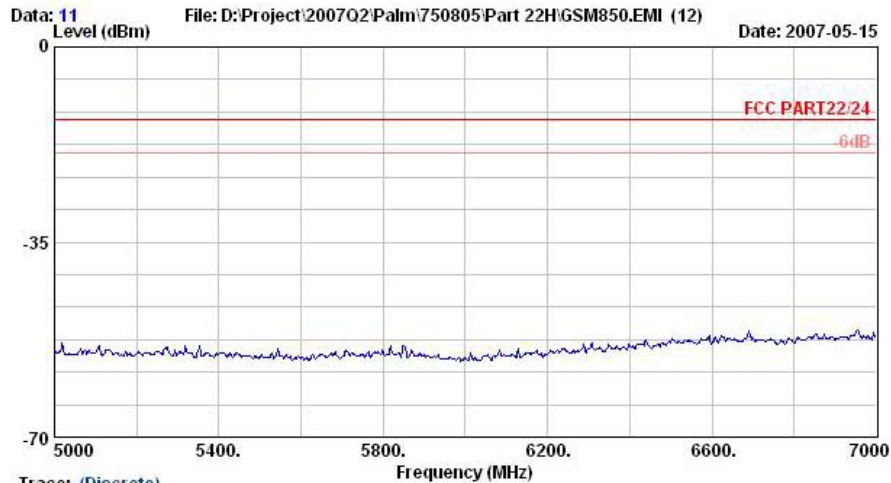
Site : 03CH06-HV
Condition : HF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dBm	dB	dBm	dBm	dB
1 @	4184.00	-52.59	-39.59	-13.00	-60.95	8.36 Peak



FCC/IC TEST REPORT

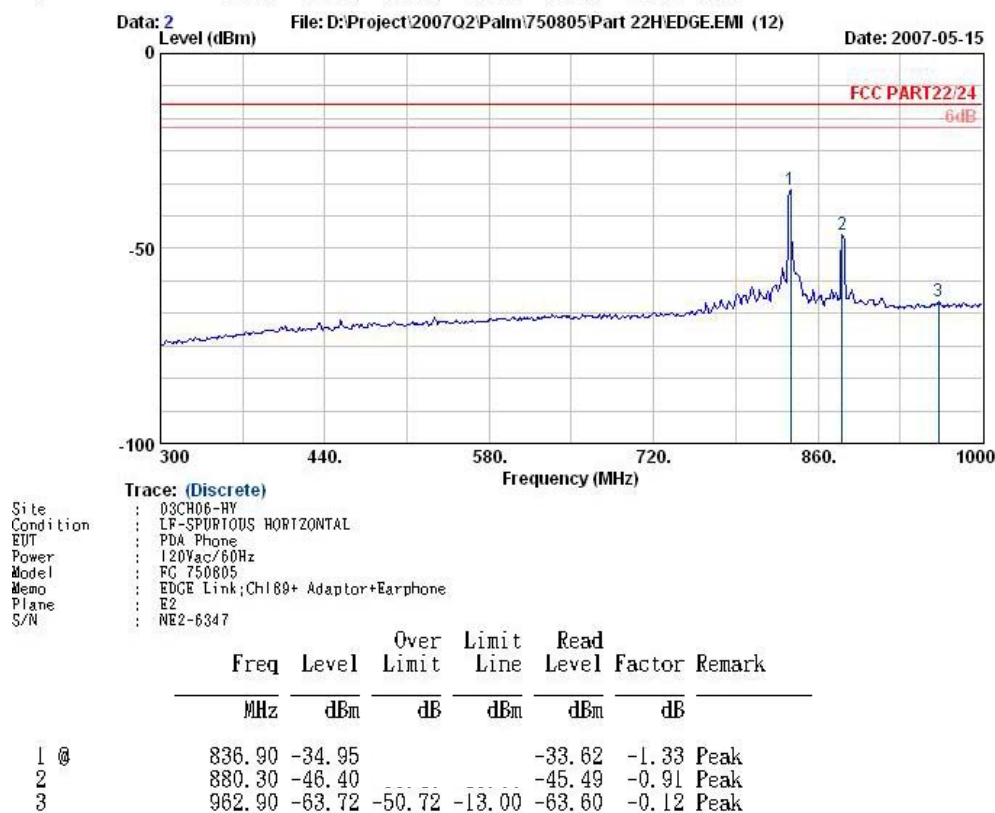
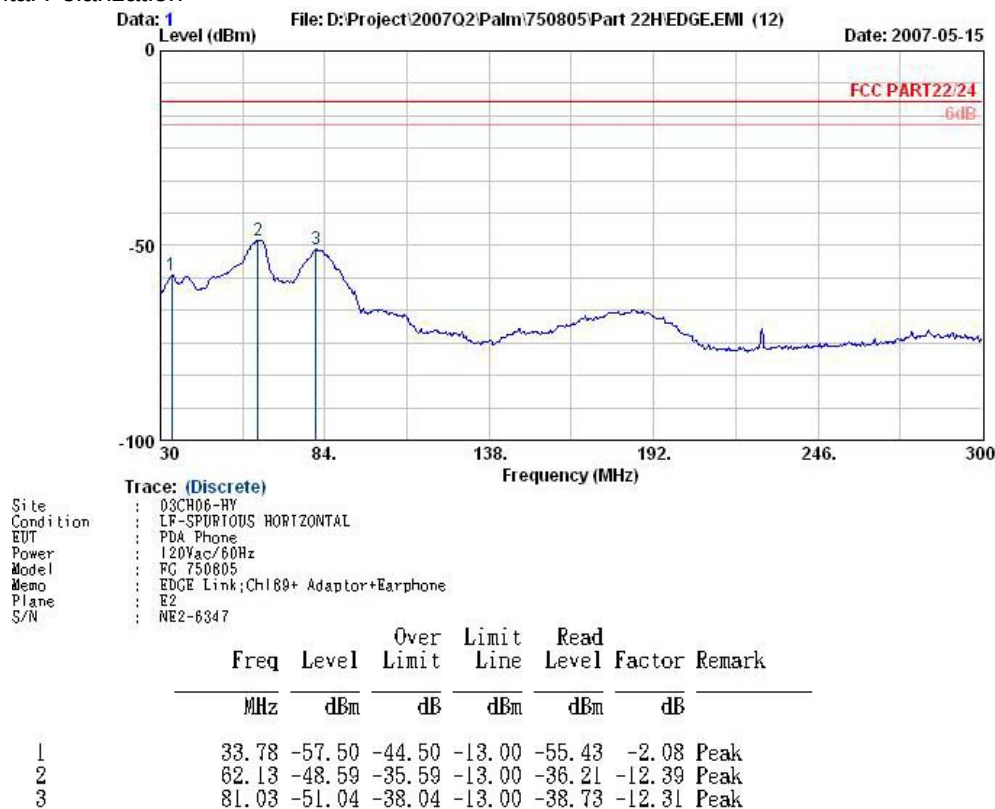
Report No. : FG750805



Trace: (Discrete)

Site : 03CH06-HY
Condition : HP-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

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

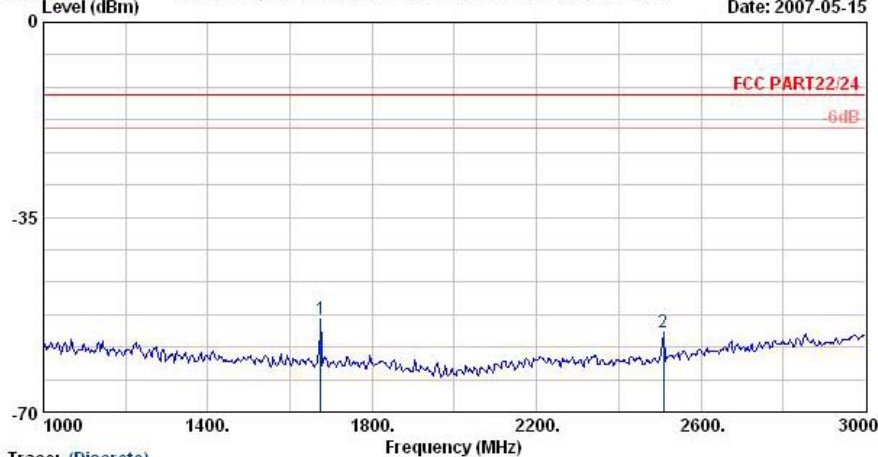
4.6.5.2 Mode 2
Horizontal Polarization

Remark:

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



Data: 3 File: D:\Project\2007Q2\Palm\750805\Part 22\EDGE.EMI (12) Date: 2007-05-15

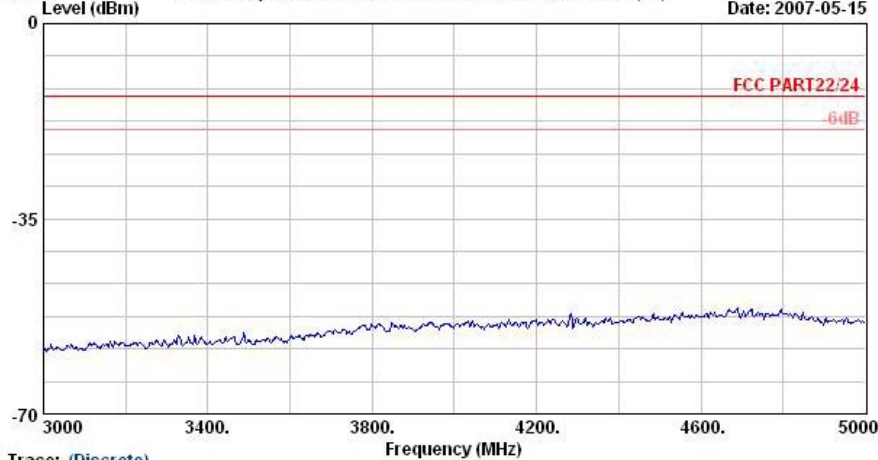


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FC 750805
Memo : EDGE Link;Ch180+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dBm	dB	dBm	dBm	dB
1	1674.00	-53.32	-40.32	-13.00	-53.54	0.22 Peak
2	2508.00	-55.79	-42.79	-13.00	-56.99	1.20 Peak

Data: 4 File: D:\Project\2007Q2\Palm\750805\Part 22\EDGE.EMI (12) Date: 2007-05-15



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FC 750805
Memo : EDGE Link;Ch180+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347



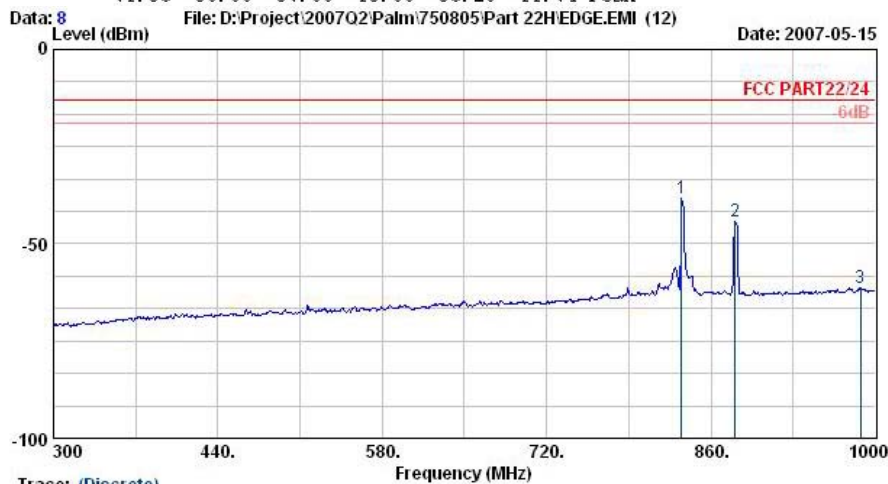
Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LP-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : EDGE Link;Ch180+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	33.24	-50.64	-37.64	-13.00	-40.75	-9.89 Peak
2 @	62.94	-44.68	-31.68	-13.00	-31.68	-13.00 Peak
3	71.58	-50.00	-37.00	-13.00	-38.26	-11.74 Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : LP-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : EDGE Link;Ch180+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

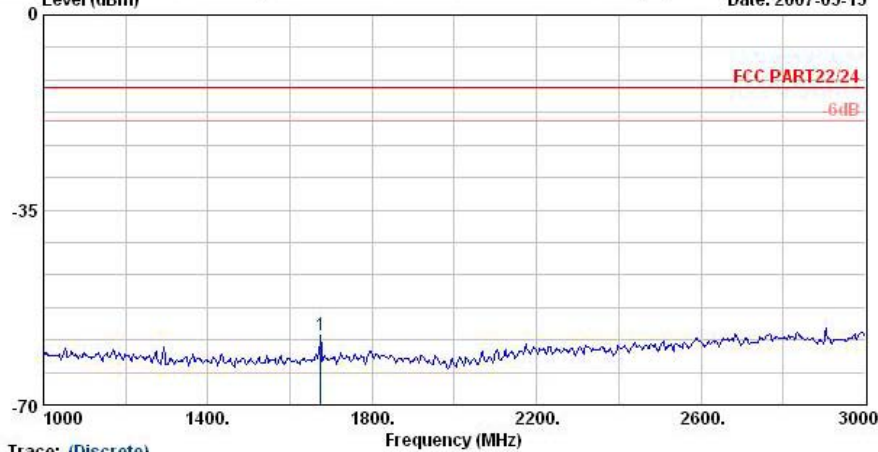
	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	834.80	-38.11			-39.46	1.35 Peak
2 @	880.30	-44.13			-45.85	1.71 Peak
3	987.40	-61.31	-48.31	-13.00	-63.87	2.56 Peak

Remark:

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



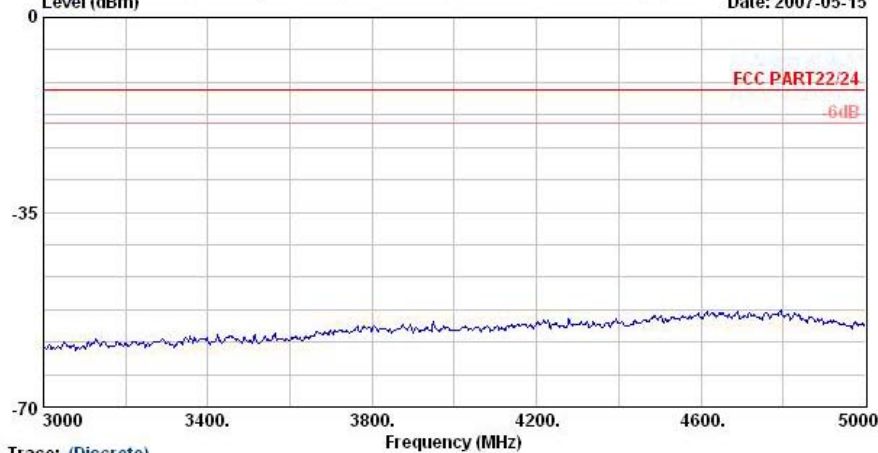
Data: 9 File: D:\Project\2007Q2\Palm\750805\Part 22H\EDGE.EMI (12) Date: 2007-05-15



Trace: (Discrete)
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : EDGE Link;Ch189+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	1674.00	-57.49	-44.49	-13.00	-57.01	-0.48 Peak

Data: 10 File: D:\Project\2007Q2\Palm\750805\Part 22H\EDGE.EMI (12) Date: 2007-05-15



Trace: (Discrete)
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : EDGE Link;Ch189+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

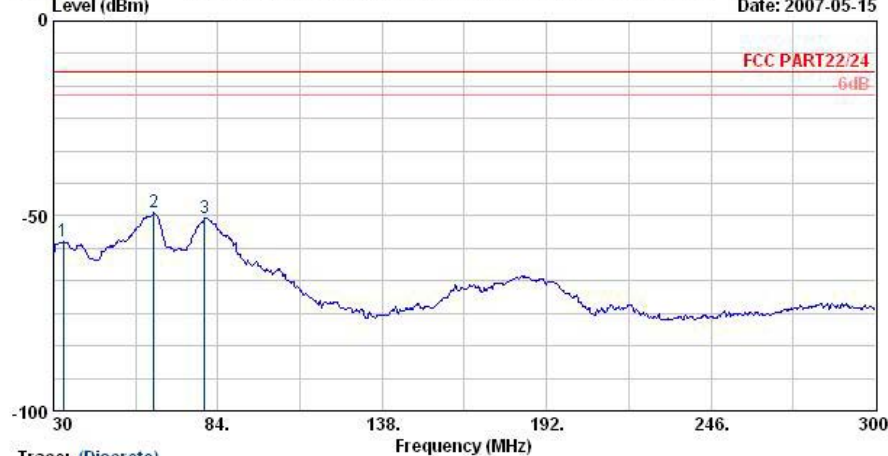
Remark : There is no more obvious emission except the listings above.



4.6.5.3 Mode 3

Horizontal Polarization

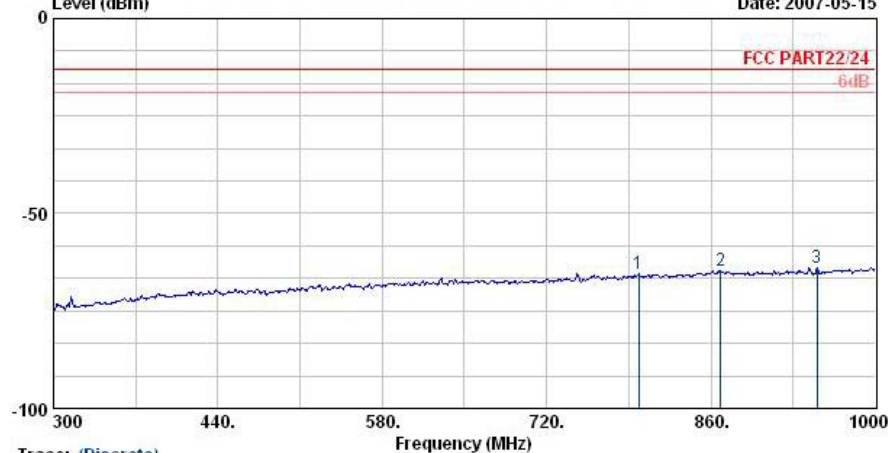
Data: 1 File: D:\Project\2007Q2\Palm\750805\Part 24EPCS 1900.EMI (20) Date: 2007-05-15



Trace: (Discrete)
Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : PCS 1900 Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	33.24	-56.66	-43.66	-13.00	-55.19	-1.47 Peak
2 @	62.94	-49.16	-36.16	-13.00	-36.78	-12.38 Peak
3 @	79.68	-50.60	-37.60	-13.00	-38.28	-12.32 Peak

Data: 2 File: D:\Project\2007Q2\Palm\750805\Part 24EPCS 1900.EMI (20) Date: 2007-05-15

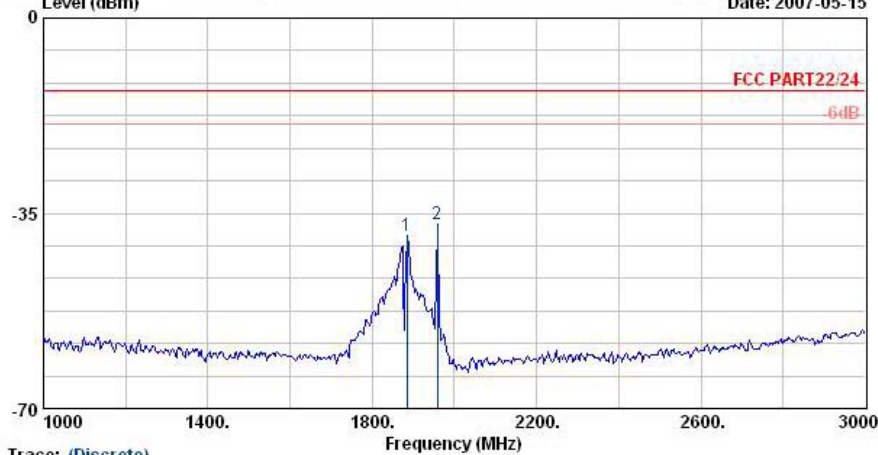


Trace: (Discrete)
Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : PCS 1900 Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	798.40	-65.29	-52.29	-13.00	-63.58	-1.71 Peak
2	868.40	-64.73	-51.73	-13.00	-63.70	-1.03 Peak
3 @	950.30	-63.80	-50.80	-13.00	-63.57	-0.24 Peak



Data: 3 File: D:\Project\2007Q2\Palm\750805\Part 24E\PCS 1900.EMI (20) Date: 2007-05-15



Trace: (Discrete)

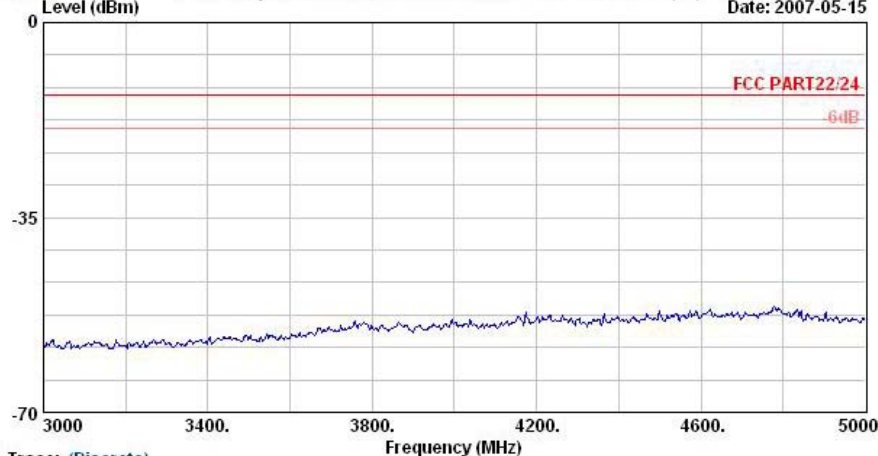
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : PCS 1900 Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	1884.00	-39.11			-38.44	-0.68 Peak
2 @	1958.00	-36.93			-35.82	-1.11 Peak

Remark:

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

Data: 4 File: D:\Project\2007Q2\Palm\750805\Part 24E\PCS 1900.EMI (20) Date: 2007-05-15



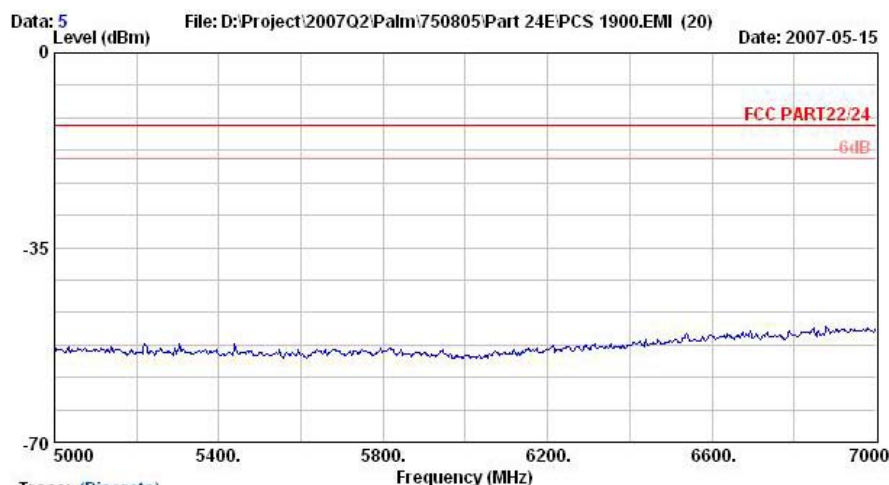
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : PCS 1900 Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347



FCC/IC TEST REPORT

Report No. : FG750805



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : PCS 1900 Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347



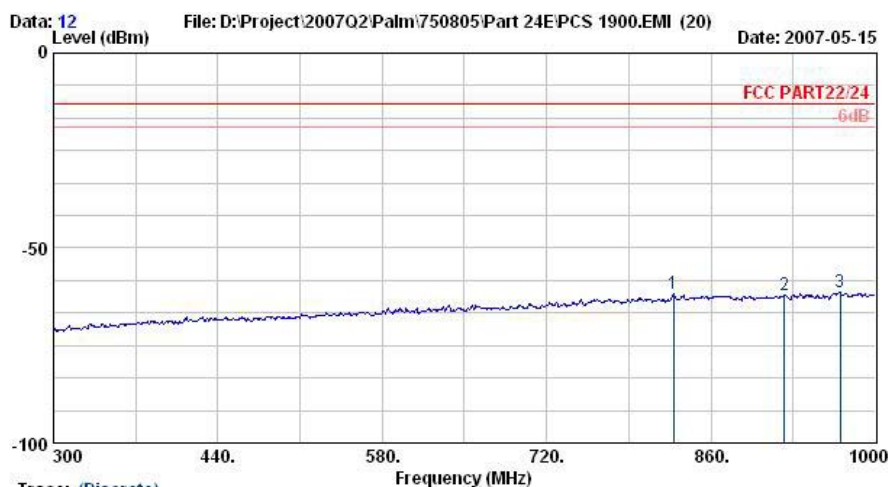
Vertical Polarization



Trace: (Discrete)

Site : D3CH06-HV
Condition : LF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : PCS 1900 Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	33.78	-49.24	-36.24	-13.00	-39.08	-10.17	Peak
2 @	64.29	-44.75	-31.75	-13.00	-31.89	-12.86	Peak
3 @	71.58	-49.50	-36.50	-13.00	-37.76	-11.74	Peak



Trace: (Discrete)

Site : D3CH06-HV
Condition : LF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : PCS 1900 Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

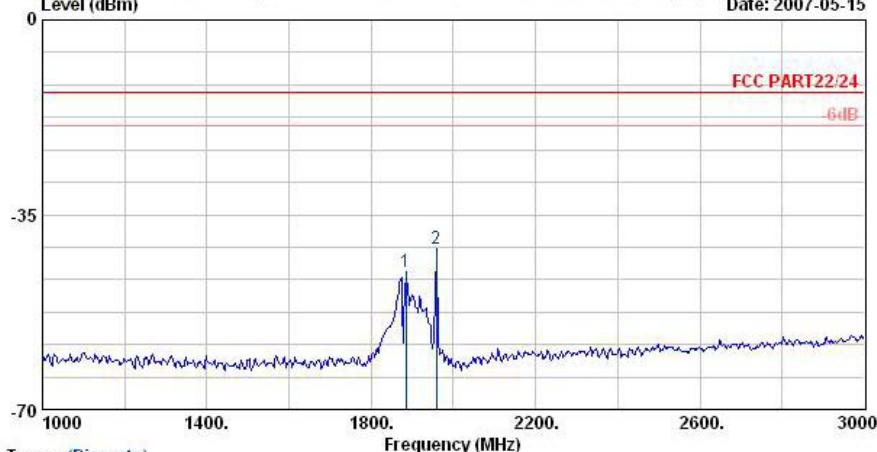
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	827.80	-61.69	-48.69	-13.00	-62.98	1.29	Peak
2 @	922.30	-62.18	-49.18	-13.00	-64.23	2.04	Peak
3 @	969.90	-61.39	-48.39	-13.00	-63.81	2.42	Peak



FCC/IC TEST REPORT

Report No. : FG750805

Data: 13 File: D:\Project\2007Q2\Palm\750805\Part 24E\PCS 1900.EMI (20) Date: 2007-05-15



Trace: (Discrete)

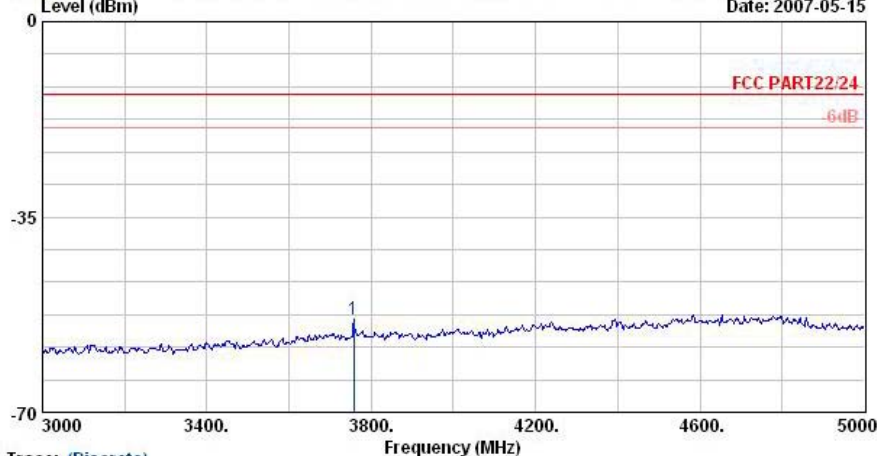
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : PCS 1900 Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dB		dBm	dBm	dB
1 @	1884.00	-45.21			-44.71	-0.50 Peak
2 @	1958.00	-41.06			-40.46	-0.60 Peak

Remark:

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

Data: 14 File: D:\Project\2007Q2\Palm\750805\Part 24E\PCS 1900.EMI (20) Date: 2007-05-15



Trace: (Discrete)

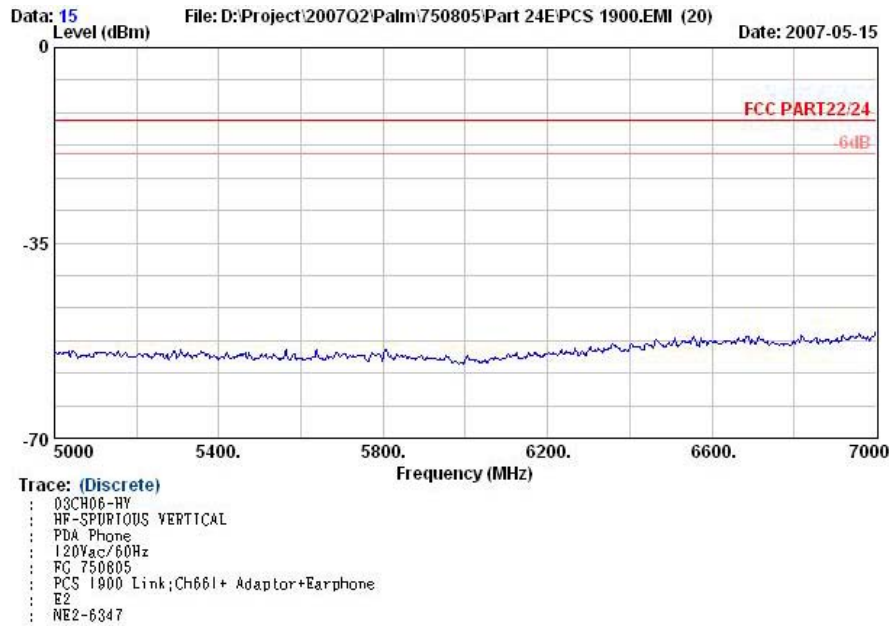
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : PCS 1900 Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dB		dBm	dBm	dB
1 @	3758.00	-53.42	-40.42	-13.00	-60.05	6.64 Peak



FCC/IC TEST REPORT

Report No. : FG750805



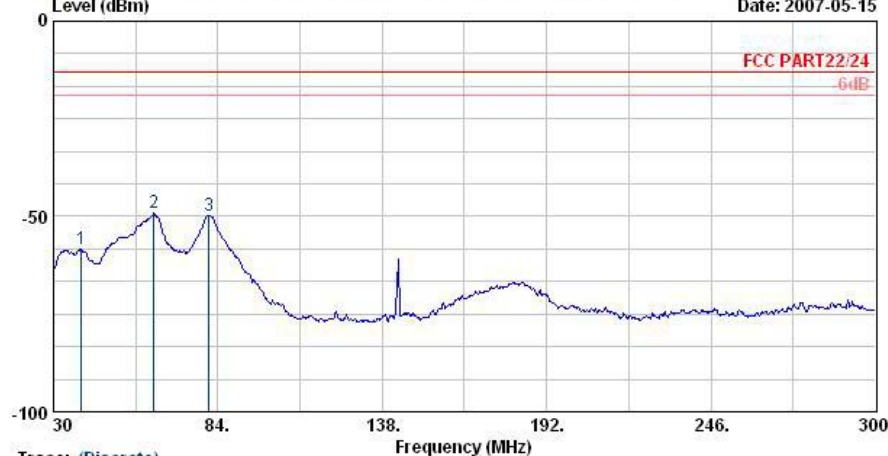
Remark : There is no more obvious emission except the listings above.



4.6.5.4 Mode 4

Horizontal Polarization

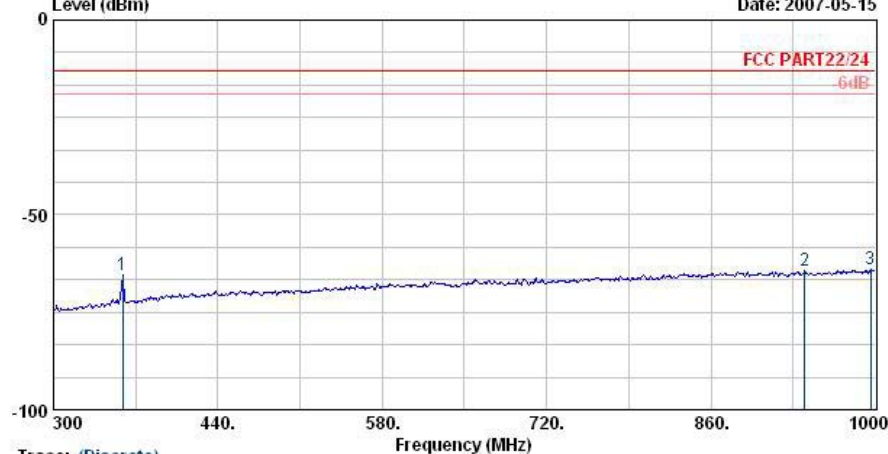
Data: 1 File: D:\Project\2007Q2\Palm\750805\Part 24\EDGE.EMI (20) Date: 2007-05-15



Trace: (Discrete)
Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : EDGE Link;Ch66I+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	39.18	-58.47	-45.47	-13.00	-53.35	-5.12	Peak
2	62.94	-49.18	-36.18	-13.00	-36.80	-12.38	Peak
3	81.03	-49.71	-36.71	-13.00	-37.40	-12.31	Peak

Data: 2 File: D:\Project\2007Q2\Palm\750805\Part 24\EDGE.EMI (20) Date: 2007-05-15

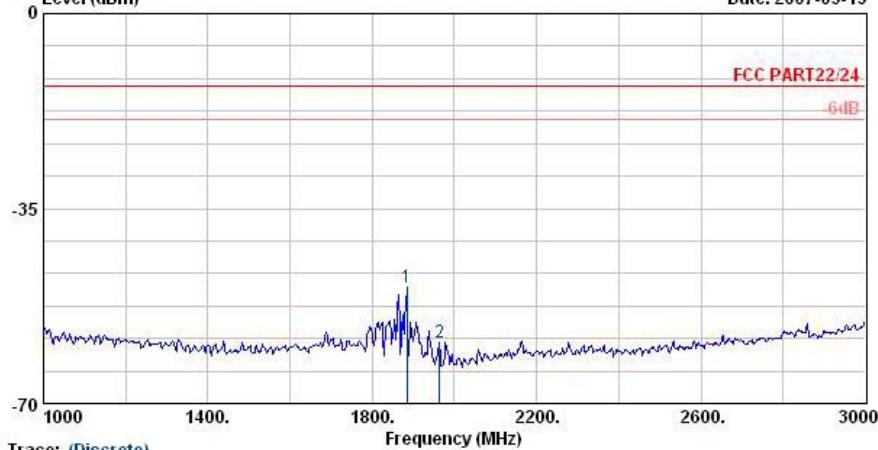


Trace: (Discrete)
Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : EDGE Link;Ch66I+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	358.80	-65.55	-52.55	-13.00	-57.65	-7.90	Peak
2	939.80	-64.36	-51.36	-13.00	-64.02	-0.34	Peak
3	995.80	-64.11	-51.11	-13.00	-64.32	0.20	Peak



Data: 3 File: D:\Project\2007Q2\Palm\750805\Part 24E\EDGE.EMI (20) Date: 2007-05-15



Trace: (Discrete)

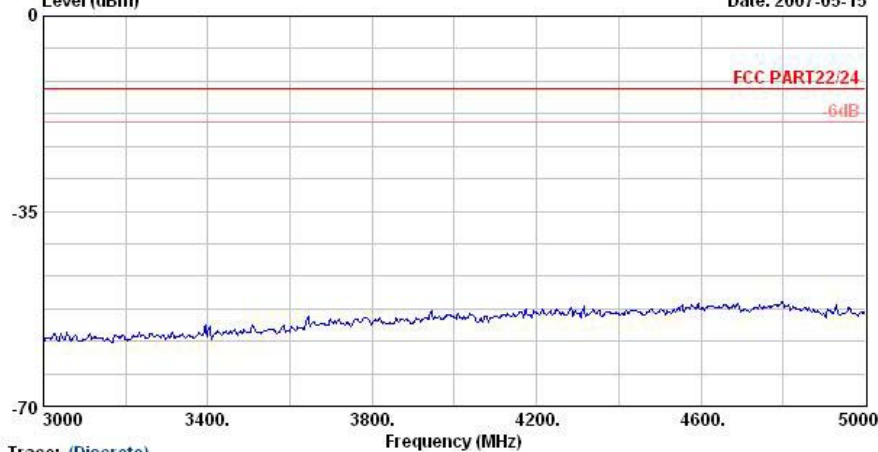
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : EDGE Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	1884.00	-49.24			-48.56	-0.68	Peak
2	1964.00	-59.09			-57.98	-1.11	Peak

Remark:

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

Data: 4 File: D:\Project\2007Q2\Palm\750805\Part 24E\EDGE.EMI (20) Date: 2007-05-15



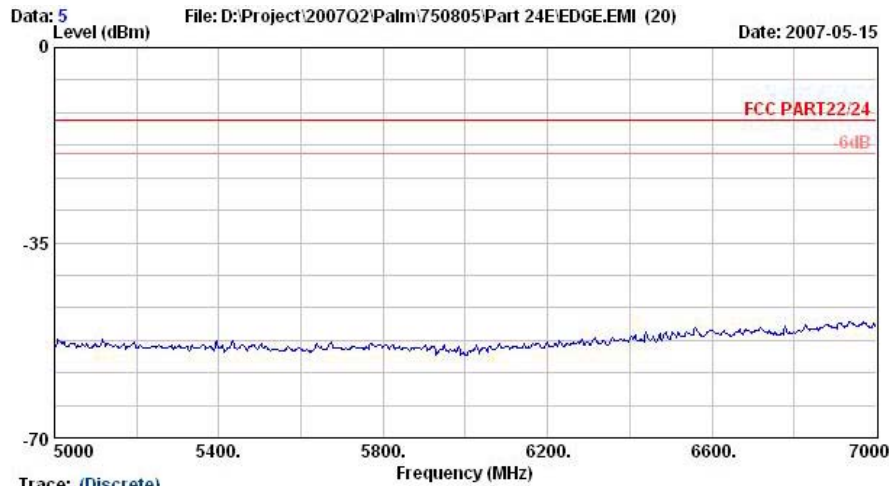
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : EDGE Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347



FCC/IC TEST REPORT

Report No. : FG750805

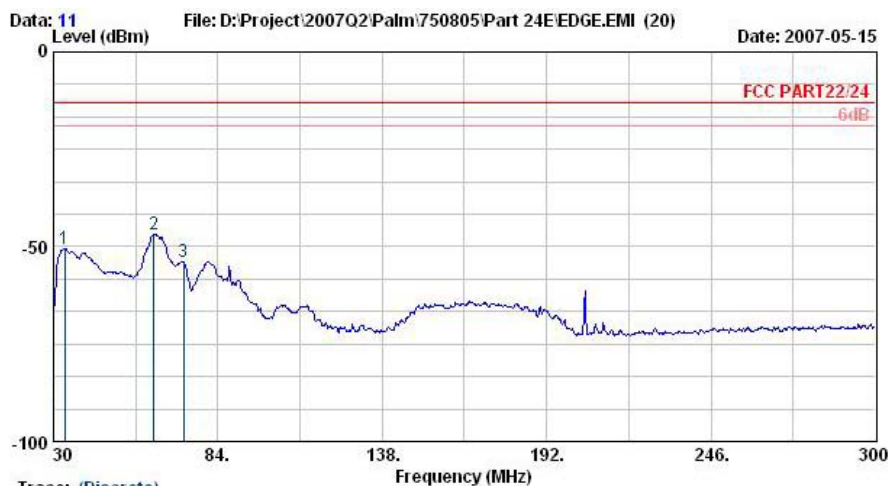


Trace: (Discrete)

Site : 03CH06-HV
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : EDGE Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347



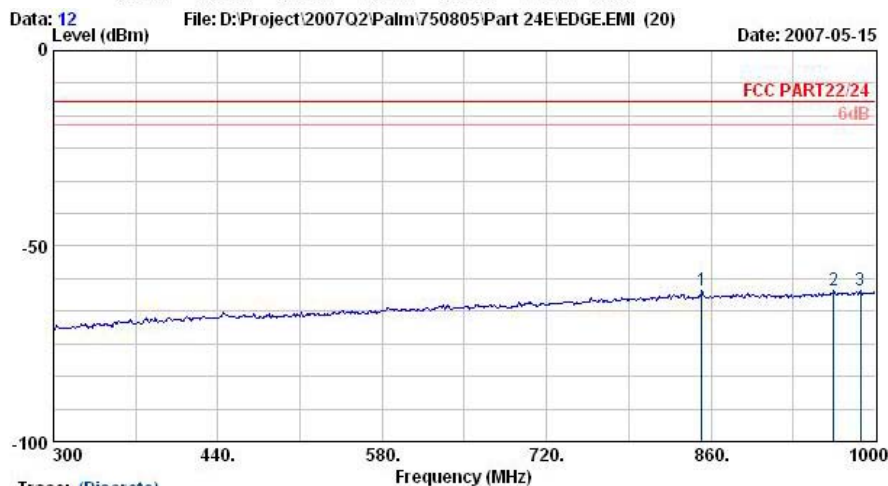
Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : EDGE Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	33.78	-50.44	-37.44	-13.00	-40.28	-10.17 Peak
2	62.94	-46.80	-33.80	-13.00	-33.79	-13.00 Peak
3	72.66	-53.90	-40.90	-13.00	-42.29	-11.60 Peak



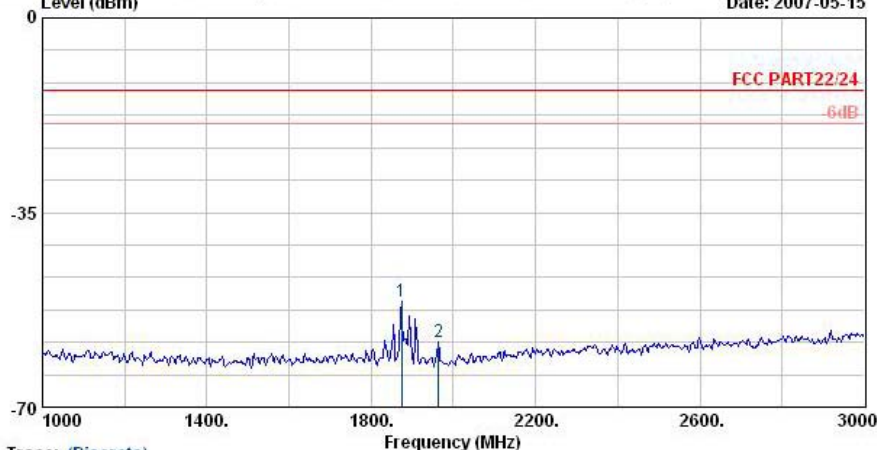
Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : EDGE Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	852.30	-61.30	-48.30	-13.00	-62.79	1.49 Peak
2	964.30	-61.50	-48.50	-13.00	-63.88	2.37 Peak
3	987.40	-61.36	-48.36	-13.00	-63.92	2.56 Peak



Data: 13 Level (dBm) File: D:\Project\2007Q2\Palm\750805\Part 24E\EDGE.EMI (20) Date: 2007-05-15



Trace: (Discrete)

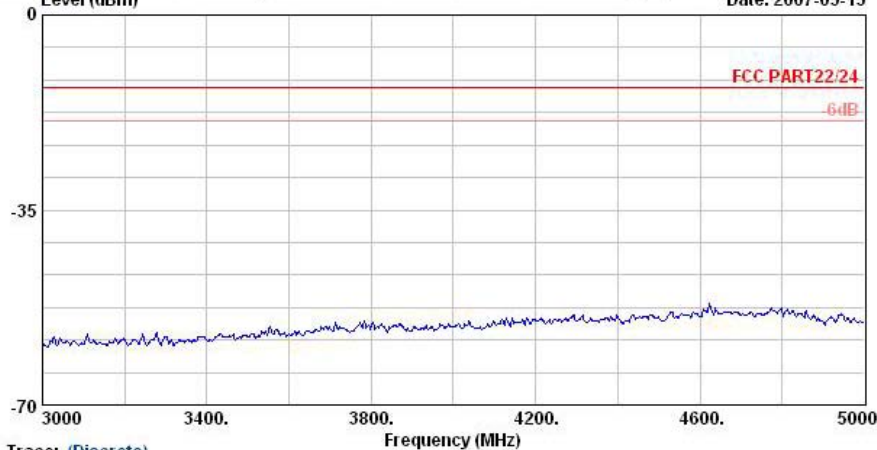
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : EDGE Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	1874.00	-51.08			-50.68	-0.40 Peak
2	1964.00	-58.19			-57.60	-0.60 Peak

Remark:

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

Data: 14 Level (dBm) File: D:\Project\2007Q2\Palm\750805\Part 24E\EDGE.EMI (20) Date: 2007-05-15



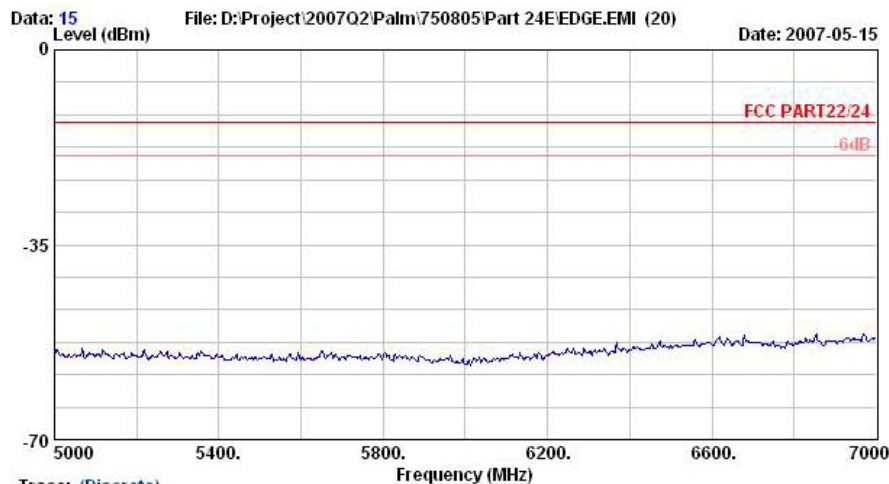
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : EDGE Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347



FCC/IC TEST REPORT

Report No. : FG750805



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : EDGE Link;Ch661+ Adaptor+Earphone
Plane : E2
S/N : NE2-6347

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



4.6.5.5 Mode 5

Horizontal Polarization

Data: 1 File: D:\Project\2007Q2\Palm\750805\Part 22H\Co-location.EMI (12) Date: 2007-05-16

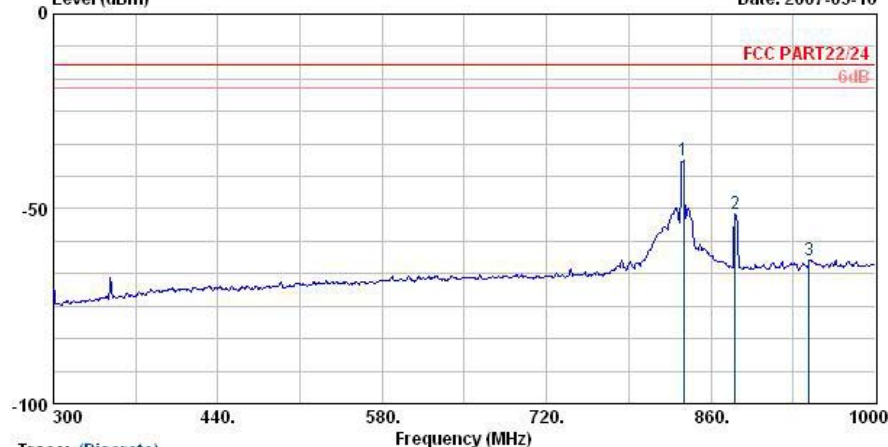


Trace: (Discrete)

Site : 03CH06-HY
Condition : LR-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor I+Earphone
Memo : + BT Tx_CH00;2402MHz
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	33.24	-50.76	-37.76	-13.00	-49.29	-1.47 Peak
2 @	52.68	-49.81	-36.81	-13.00	-37.39	-12.42 Peak
3	79.68	-50.13	-37.13	-13.00	-37.82	-12.32 Peak

Data: 2 File: D:\Project\2007Q2\Palm\750805\Part 22H\Co-location.EMI (12) Date: 2007-05-16



Trace: (Discrete)

Site : 03CH06-HY
Condition : LR-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor I+Earphone
Memo : + BT Tx_CH00;2402MHz
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	836.90	-37.70			-36.37	-1.33 Peak
2	880.30	-51.12			-50.21	-0.91 Peak
3	943.30	-63.15	-50.15	-13.00	-62.85	-0.30 Peak

Remark:

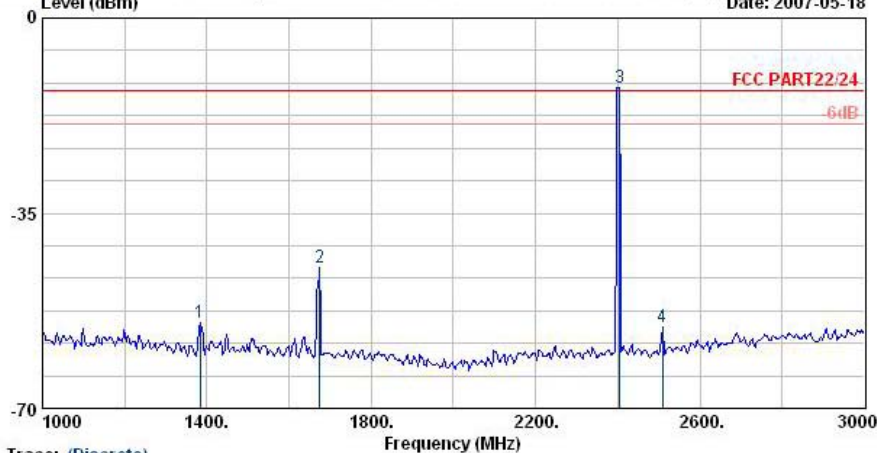
1. #1: MS Signal
2. #2: BS Signal



FCC/IC TEST REPORT

Report No. : FG750805

Data: 3 File: D:\Project\2007Q2\Palm\750805\Part 22H\Co-location.EMI (12) Date: 2007-05-18



Trace: (Discrete)

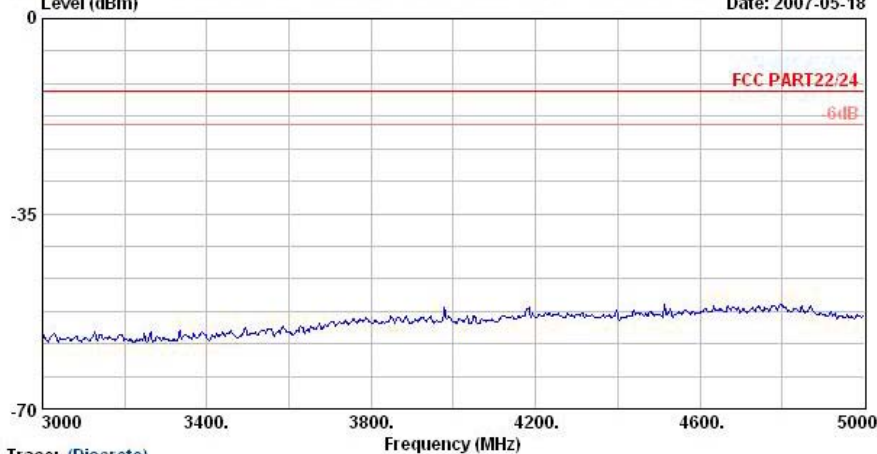
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor I+Earphone
Memo : + BT Tx_CH00;2402MHz
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	1384.00	-54.60	-41.60	-13.00	-55.34	0.74	Peak
2 @	1674.00	-44.77	-31.77	-13.00	-44.99	0.22	Peak
3 @	2404.00	-12.52		-13.41		0.89	Peak
4	2508.00	-55.43	-42.43	-13.00	-56.63	1.20	Peak

Remark:

1. #3: BT Signal

Data: 4 File: D:\Project\2007Q2\Palm\750805\Part 22H\Co-location.EMI (12) Date: 2007-05-18



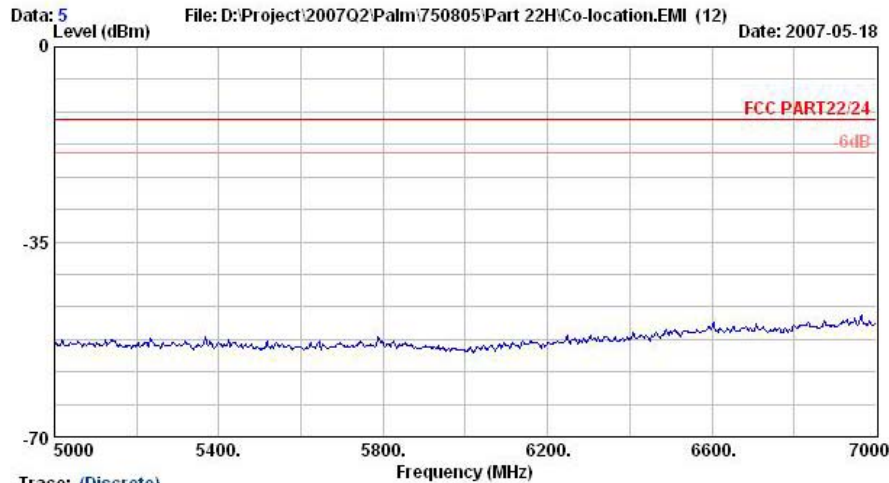
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor I+Earphone
Memo : + BT Tx_CH00;2402MHz
Plane : E2
S/N : NE2-6347



FCC/IC TEST REPORT

Report No. : FG750805

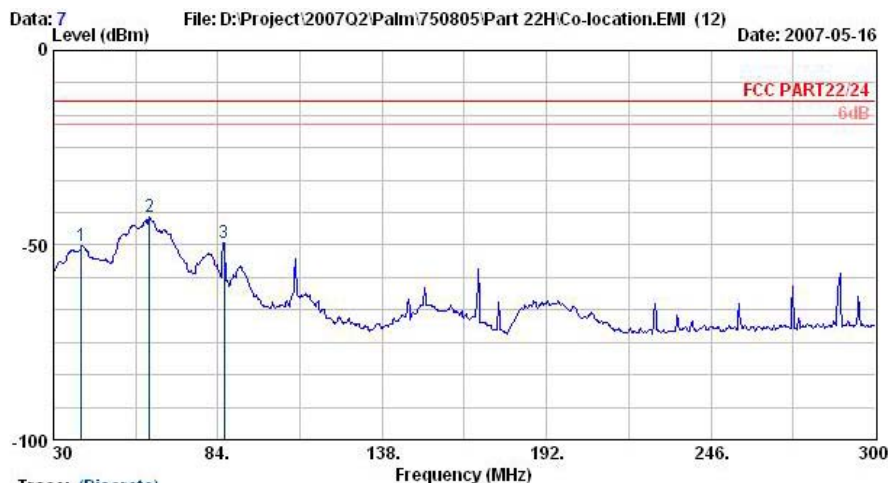


Trace: (Discrete)

Site : 03CH06-HY
Condition : HP-SPURIOUS HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor 1+Earphone
Memo : + BT Tx_CH00;2402MHz
Plane : E2
S/N : NE2-6347



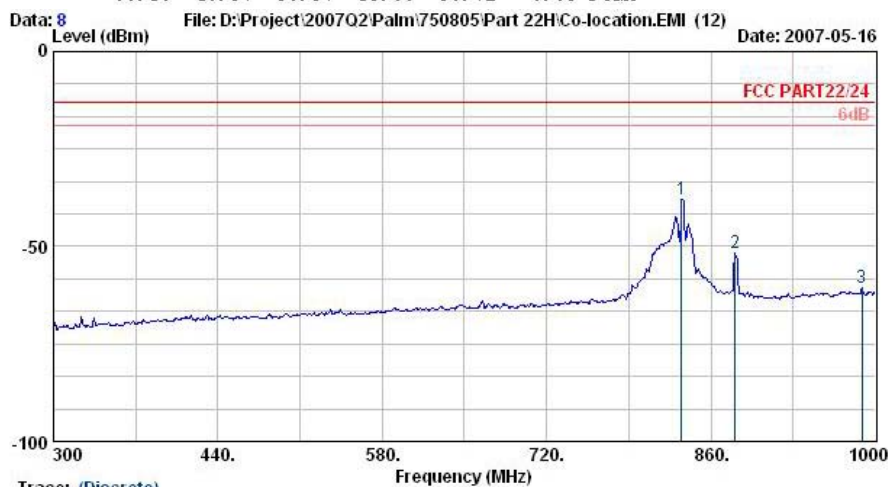
Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LP-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor I+Earphone
Memo : + BT Tx_CH00;2402MHz
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	39.18	-50.20	-37.20	-13.00	-38.67	-11.53 Peak
2 @	61.59	-42.59	-29.59	-13.00	-29.45	-13.14 Peak
3 @	86.16	-49.37	-36.37	-13.00	-39.72	-9.65 Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : LP-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor I+Earphone
Memo : + BT Tx_CH00;2402MHz
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1 @	834.80	-37.79			-39.14	1.35 Peak
2	880.30	-51.83			-53.54	1.71 Peak
3	988.80	-60.66	-47.66	-13.00	-63.23	2.57 Peak

Remark:

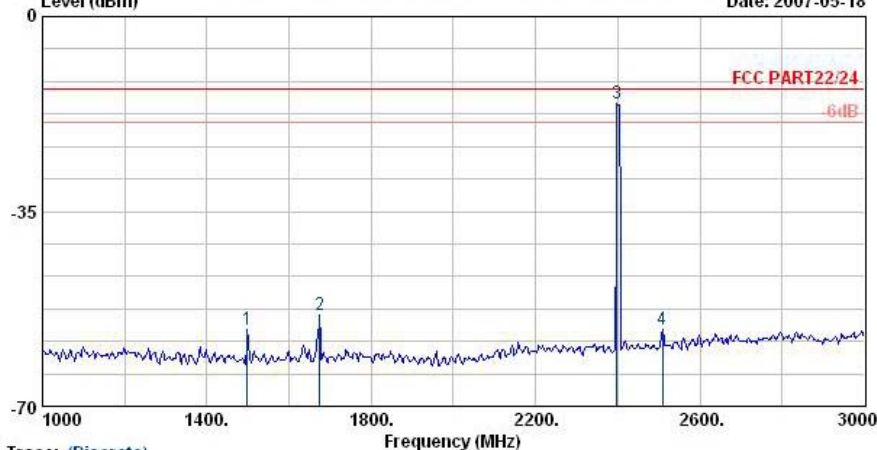
- #1: MS Signal
- #2: BS Signal



FCC/IC TEST REPORT

Report No. : FG750805

Data: 9 File: D:\Project\2007Q2\Palm\750805\Part 22H\Co-location.EMI (12) Date: 2007-05-18



Trace: (Discrete)

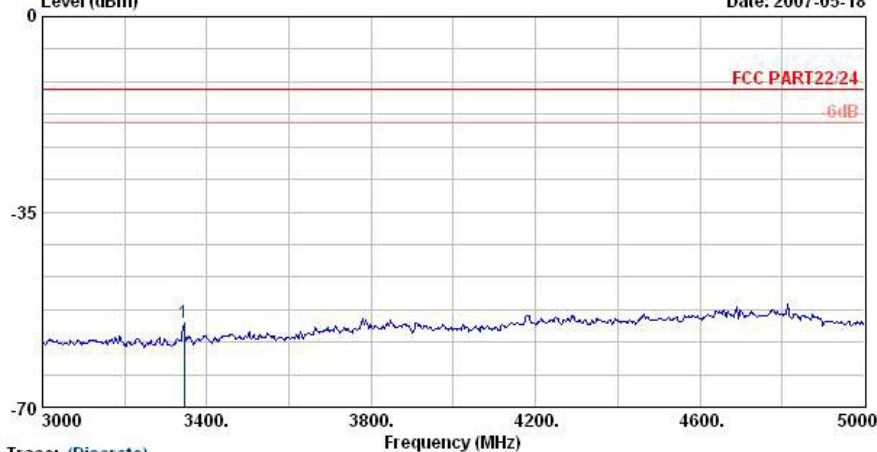
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor I+Earphone
Memo : + BT Tx_CH00;2402MHz
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	1498.00	-56.29	-43.29	-13.00	-55.43	-0.86 Peak
2	1674.00	-53.58	-40.58	-13.00	-53.10	-0.48 Peak
3 @	2398.00	-15.74			-17.61	1.87 Peak
4	2508.00	-56.08	-43.08	-13.00	-58.35	2.27 Peak

Remark:

1. #3: BT Signal

Data: 10 File: D:\Project\2007Q2\Palm\750805\Part 22H\Co-location.EMI (12) Date: 2007-05-18



Trace: (Discrete)

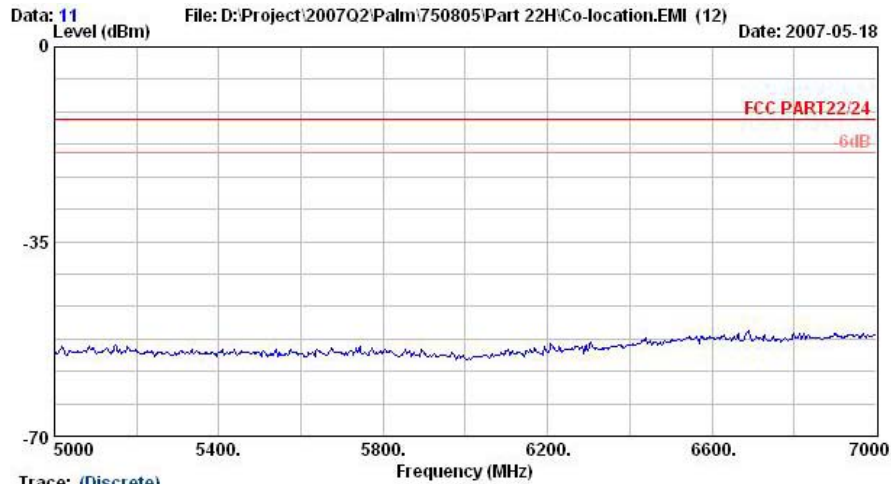
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor I+Earphone
Memo : + BT Tx_CH00;2402MHz
Plane : E2
S/N : NE2-6347

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
			dB	dBm	dBm	dB
1	3344.00	-54.97	-41.97	-13.00	-59.43	4.47 Peak



FCC/IC TEST REPORT

Report No. : FG750805



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA Phone
Power : 120Vac/60Hz
Model : FG 750805
Memo : GSM 850 Link;Ch189+ Adaptor 1+Earphone
Memo : + BT Tx_CH00;2402MHz
Plane : E2
S/N : NE2-6347

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

4.7 Frequency Stability (Temperature Variation)

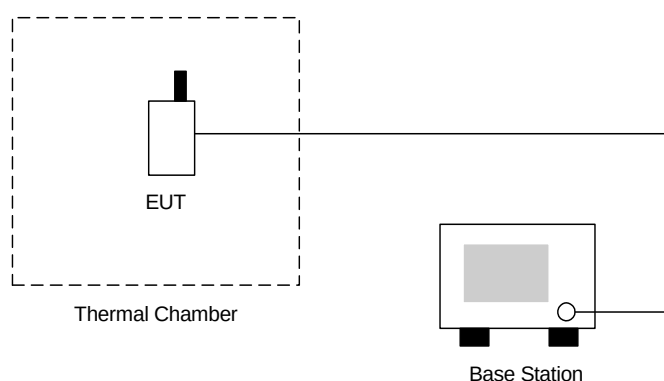
4.7.1 Measurement Instrument

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(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-45	-0.02	2.5	Passed
-20	-28	-0.01		
-10	13	0.01		
0	18	0.01		
10	-6	0.00		
20	11	0.01		
30	-32	-0.02		
40	-40	-0.02		
50	-28	-0.01		

▪ Test Mode : PCS1900 (GSM) CH661

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-41	-0.02	2.5	Passed
-20	-35	-0.02		
-10	10	0.01		
0	16	0.01		
10	3	0.00		
20	-22	-0.01		
30	-31	-0.02		
40	-29	-0.02		
50	-25	-0.01		

4.8 Frequency Stability (Voltage Variation)

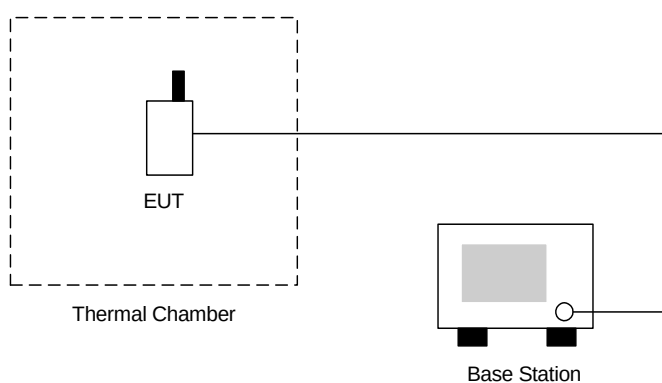
4.8.1 Measurement Instrument

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	9.0	0.00	2.5	Passed
BEP	-31.0	-0.02		
4.2	-24.0	-0.01		

- Test Mode : PCS1900 (GSM) CH661

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	17.0	0.01	2.5	Passed
BEP	-21.0	-0.01		
4.2	-33.0	-0.02		

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	SCHWARZBEC K	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		$u(x_i)$	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