FCC/IC TEST REPORT

for

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

Equipment	:	**Hand-held Micro-computer**
Trade Name	:	**WORKABOUT PRO**
Model No.	:	**RA3030-G2**
FCC ID	:	**GM375273RADA**
IC ID	:	**2739D-7527RADA**
Tx Frequency Range	:	**GSM850 : 824~849 MHz** **PCS1900 : 1850~1910 MHz**
Max. ERP/EIRP Power	:	**GSM850(GSM) : 0.40 W for 7527C** **0.47 W for 7527S** **GSM850(EDGE) : 0.07 W for 7527C** **0.06 W for 7527S** **PCS1900(GSM) : 1.38 W for 7527C** **0.98 W for 7527S** **PCS1900(EDGE) : 0.19 W for 7527C** **0.12 W for 7527S**
Emission Designator	:	**GSM : 300KGXW** **EDGE : 300KG7W**
Applicant	:	**Psion Teklogix Inc.** 2100 Meadowvale Blvd., Mississauga, Ontario, L5N 7J9, Canada

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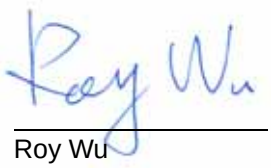
- The data shown in this test report were carried out on Jan. 28, 2007 at **Sporton International Inc. LAB.**
- Report No.: FG710211-A, Report Version: Rev. 01.



Roy Wu
Deputy Manager

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History of this test report

Report Issue Date: Feb. 28, 2007

Report No.	Description

1. General Information

1.1. Applicant

Psion Teklogix Inc.
2100 Meadowvale Blvd., Mississauga, Ontario, L5N 7J9, Canada

1.2 Manufacturer

ASKEY COMPUTER CORP.
10F, No. 119, Chienkang Rd., Chung-Ho, Taipei, Taiwan, R.O.C.

1.3 Basic Description of Equipment under Test

Equipment	: Hand-held Micro-computer
Trade Name	: WORKABOUT PRO
Model No.	: RA3030-G2
FCC ID	: GM375273RADA
IC ID	: 2739D-7527RADA
Power Supply Type	: Switching
AC Power Cord	: AC 120V, Wall-mount, 2 pin

Remark:
1. The hosts 7527S is the shorter version of model 7527C. They have the same module and antenna. The only difference between the two models is the keypad.

1.4 Feature of Equipment under Test

GSM module

Product Feature & Specification	
1. Model Name :	RA3030-G2
2. FCC ID :	GM375273RADA
3. IC ID :	2739D-7527RADA
4. Tx Frequency :	GSM850 : 824 ~ 849 MHz PCS1900 : 1850 ~1910 MHz
5. Rx Frequency :	GSM850 : 869 ~ 894 MHz PCS1900 : 1930 ~ 1990 MHz
6. Maximum Output Power to Antenna :	GSM : 31.54 dBm(GSM) ; 23.10 dBm(EDGE) PCS : 29.03 dBm(GSM) ; 22.00 dBm(EDGE)
7. Maximum ERP/EIRP :	GSM850(GSM) : 0.40 W (26.01 dBm) for 7527C 0.47 W (26.71 dBm) for 7527S GSM850(EDGE) : 0.07 W (18.17 dBm) for 7527C 0.06 W (17.85 dBm) for 7527S PCS1900(GSM) : 1.38 W (31.39 dBm) for 7527C 0.98 W (29.92 dBm) for 7527S PCS1900(EDGE) : 0.19 W (22.84 dBm) for 7527C 0.12 W (20.85 dBm) for 7527S
8. Antenna Type :	PCB Antenna
9. Power Rating (DC/AC , Voltage and Current of RF element or PA) :	DC 3.8V / 810 mA
10. Digital Modulation Emission :	GSM : GMSK EDGE : 8PSK
11. Type of Emission :	GSM : 300KGXW EDGE : 300KG7W
12. Device Power Class :	GSM850 : 4 PCS1900 : 1

Co-transmission BT module

Product Feature & Specification	
1. Model Name	BTL040
2. FCC ID	GM37525BTB
3. IC ID	2739D-7525BTB
4. Modulation Type/Data Rate	GFSK
5. Frequency Range.	2400 MHz ~ 2483.5 MHz
6. Number of Channels	79
7. Carrier Frequency of each channel	2402+ n*1 MHz, n= 0~78
8. Channel Spacing	1 MHz
9. Maximum Output Power to Antenna (Normal condition)	0.59 dBm
10. Antenna Type	Chip Antenna
11. Antenna Gain	4.1 dBi

Host

Product Feature & Specification		
1.	Equipment	Hand-held Micro-computer
2.	Trade Name	WORKABOUT PRO
3.	Model Name	7527C / 7527S Series
4.	HW Version	7527C : ES3 7527S : ES2
5.	SW Version	A
6.	Battery	WA3006
7.	DUT Stage	Identical Prototype

1.5 Report Date

EUT Received : Jan. 02, 2007

Report Date : Feb. 28, 2007

2 Test Configuration of Equipment under Test

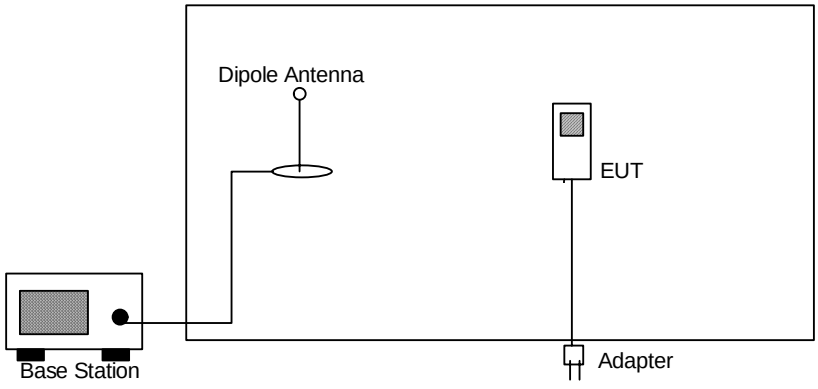
2.1 Test Manner

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

2.2 Test Mode

Application	GSM850	PCS1900
Radiated Emission	☒ Mode 1: GSM Link_CH 189 for 7527C ☒ Mode 2: EDGE Link_CH 189 for 7527C ☒ Mode 5: GSM Link_CH 189 for 7527S ☒ Mode 6: EDGE Link_CH 189 for 7527S ☒ Mode 9: GSM Link with BT Link for 7527C	☒ Mode 3: GSM Link_CH 661 for 7527C ☒ Mode 4: EDGE Link_CH 661 for 7527C ☒ Mode 7: GSM Link_CH 661 for 7527S ☒ Mode 8: EDGE Link_CH 661 for 7527S
Conducted Measurement	☒ Mode 1: GSM_CH 189 ☒ Mode 2: EDGE_CH 189	☒ Mode 3: GSM_CH 661 ☒ Mode 4: EDGE_CH 661

2.3 Connection Diagram of Test System



2.4 Ancillary Equipment List

Item	Equipment	Model No.	Serial No.
1.	Base Station(R&S)	CMU200	106656

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

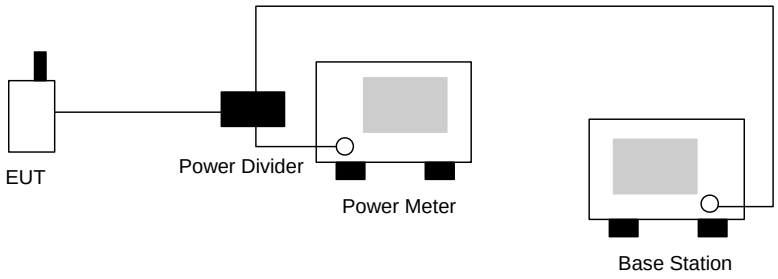
4.2.1 Measurement Instruments：

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)	31.54	1.426
	189	836.4 (Mid)	31.49	1.409
	251	848.8 (High)	31.44	1.393
GSM850 (EDGE)	128	824.2 (Low)	23.10	0.204
	189	836.4 (Mid)	23.10	0.204
	251	848.8 (High)	23.00	0.200
PCS1900 (GSM)	512	1850.2 (Low)	29.03	0.800
	661	1880.0 (Mid)	28.76	0.752
	810	1909.8 (High)	28.41	0.693
PCS1900 (EDGE)	512	1850.2 (Low)	22.00	0.158
	661	1880.0 (Mid)	21.90	0.155
	810	1909.8 (High)	21.70	0.148

4.3 ERP / EIRP Measurement

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

4.3.1 Measurement Instruments

As described in chapter 5 of this test report.

4.3.2 Test Procedure

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

   Ps (dBm)：Input power to substitution antenna.

   Gs (dBi or dBd)：Substitution antenna Gain.

   Et = Rt + AF

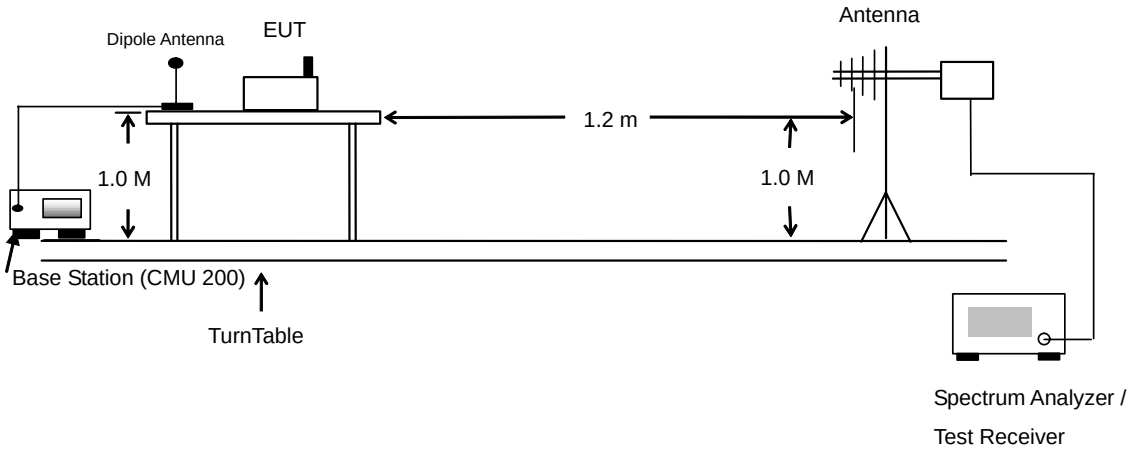
   Es = Rs + AF

   AF (dB/m)：Receive antenna factor

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

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

4.3.3 Test Setup Layout of ERP/EIRP



4.3.4 Test Result

GSM850 (GSM) Radiated Power ERP for 7527C						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-22.90	-48.12	0.00	-1.08	24.14	0.26
836.40	-22.44	-48.28	0.00	-0.93	24.91	0.31
848.80	**-21.58**	**-48.35**	**0.00**	**-0.76**	**26.01**	**0.40**
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-23.06	-47.97	0.00	-1.08	23.83	0.24
836.40	-22.97	-48.01	0.00	-0.93	24.11	0.26
848.80	-22.45	-48.05	0.00	-0.76	24.84	0.30

GSM850 (GSM) Radiated Power ERP for 7527S						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-22.90	-48.12	0.00	-1.08	24.14	0.26
836.40	-22.12	-48.28	0.00	-0.93	25.23	0.33
848.80	-21.10	-48.35	0.00	-0.76	26.49	0.45
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-23.06	-47.97	0.00	-1.08	23.83	0.24
836.40	-21.17	-48.01	0.00	-0.93	25.91	0.39
848.80	**-20.58**	**-48.05**	**0.00**	**-0.76**	**26.71**	**0.47**

GSM850 (EDGE) Radiated Power ERP for 7527C						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-29.97	-48.12	0.00	-1.08	17.07	0.05
836.40	-30.00	-48.28	0.00	-0.93	17.35	0.05
848.80	-30.27	-48.35	0.00	-0.76	17.32	0.05
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-29.55	-47.97	0.00	-1.08	17.34	0.05
836.40	-29.14	-48.01	0.00	-0.93	17.94	0.06
848.80	**-29.12**	**-48.05**	**0.00**	**-0.76**	**18.17**	**0.07**

GSM850 (EDGE) Radiated Power ERP for 7527S						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-29.74	-48.12	0.00	-1.08	17.30	0.05
836.40	-29.56	-48.28	0.00	-0.93	17.79	0.06
848.80	**-29.74**	**-48.35**	**0.00**	**-0.76**	**17.85**	**0.06**
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-31.68	-47.97	0.00	-1.08	15.21	0.03
836.40	-31.00	-48.01	0.00	-0.93	16.08	0.04
848.80	-30.75	-48.05	0.00	-0.76	16.54	0.05

PCS1900 (GSM) Radiated Power EIRP for 7527C						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-26.29	-51.88	0.00	1.96	27.55	0.57
1880.00	-27.42	-52.99	0.00	2.00	27.57	0.57
1909.80	-30.07	-54.28	0.00	1.98	26.19	0.42
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-22.98	-52.13	0.00	1.96	31.11	1.29
1880.00	**-23.78**	**-53.17**	**0.00**	**2.00**	**31.39**	**1.38**
1909.80	-25.64	-54.13	0.00	1.98	30.47	1.11

PCS1900 (GSM) Radiated Power EIRP for 7527S						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-25.05	-51.88	0.00	1.96	28.79	0.76
1880.00	-25.96	-52.99	0.00	2.00	29.03	0.80
1909.80	-27.88	-54.28	0.00	1.98	28.38	0.69
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-24.58	-52.13	0.00	1.96	29.51	0.89
1880.00	**-25.25**	**-53.17**	**0.00**	**2.00**	**29.92**	**0.98**
1909.80	-26.42	-54.13	0.00	1.98	29.69	0.93

PCS1900 (EDGE) Radiated Power EIRP for 7527C						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-31.38	-51.88	0.00	1.96	22.46	0.18
1880.00	**-32.15**	**-52.99**	**0.00**	**2.00**	**22.84**	**0.19**
1909.80	-34.23	-54.28	0.00	1.98	22.03	0.16
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-33.54	-52.13	0.00	1.96	20.55	0.11
1880.00	-35.24	-53.17	0.00	2.00	19.93	0.10
1909.80	-37.46	-54.13	0.00	1.98	18.65	0.07

PCS1900 (EDGE) Radiated Power EIRP for 7527S						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-33.70	-51.88	0.00	1.96	20.14	0.10
1880.00	-35.15	-52.99	0.00	2.00	19.84	0.10
1909.80	-36.67	-54.28	0.00	1.98	19.59	0.09
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	**-33.24**	**-52.13**	**0.00**	**1.96**	**20.85**	**0.12**
1880.00	-34.66	-53.17	0.00	2.00	20.51	0.11
1909.80	-36.37	-54.13	0.00	1.98	19.74	0.09

4.4 Occupied Bandwidth and Band Edge Measurement

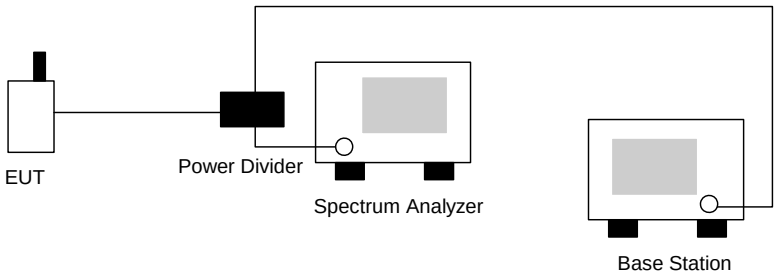
4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

4.4.2 Test Procedure

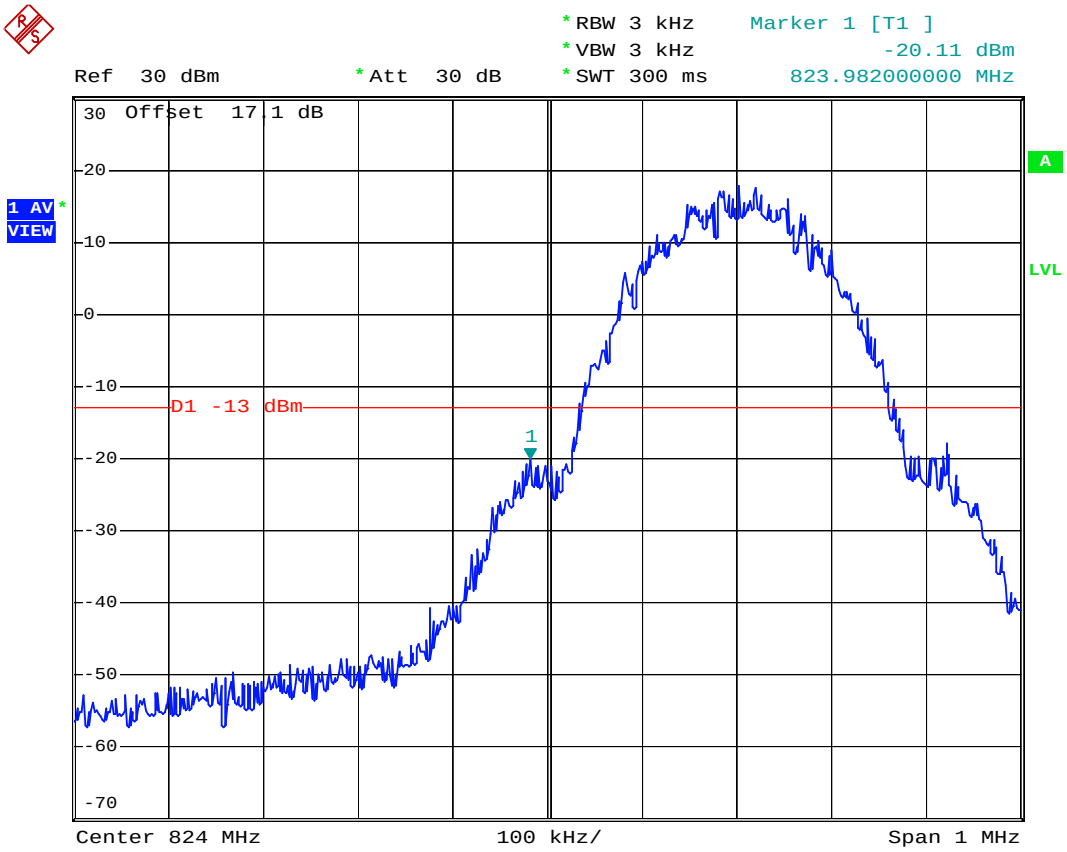
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The 99% occupied bandwidth of middle channel for the highest and lowest RF powers were measured.
3. The bandedge of low and high channels for the highest RF powers within the transmitting frequency band were measured.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

4.4.3 Test Setup Layout



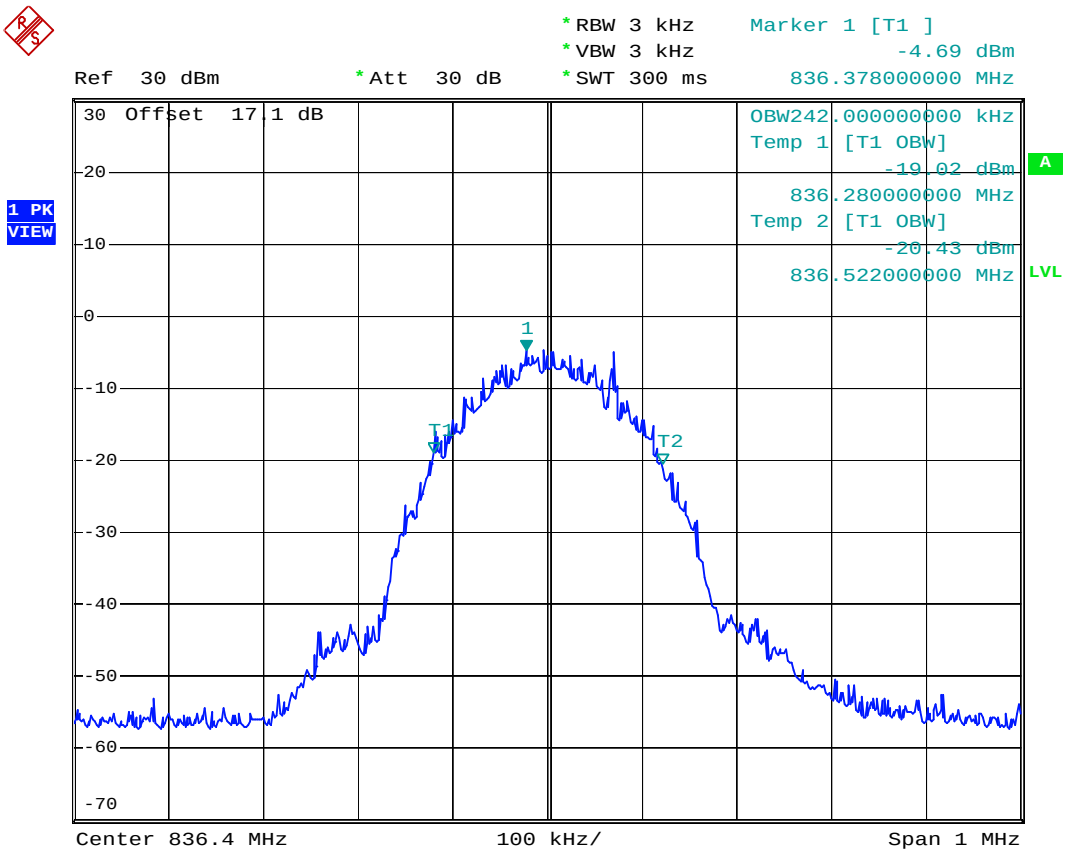
4.4.4 Test Result

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



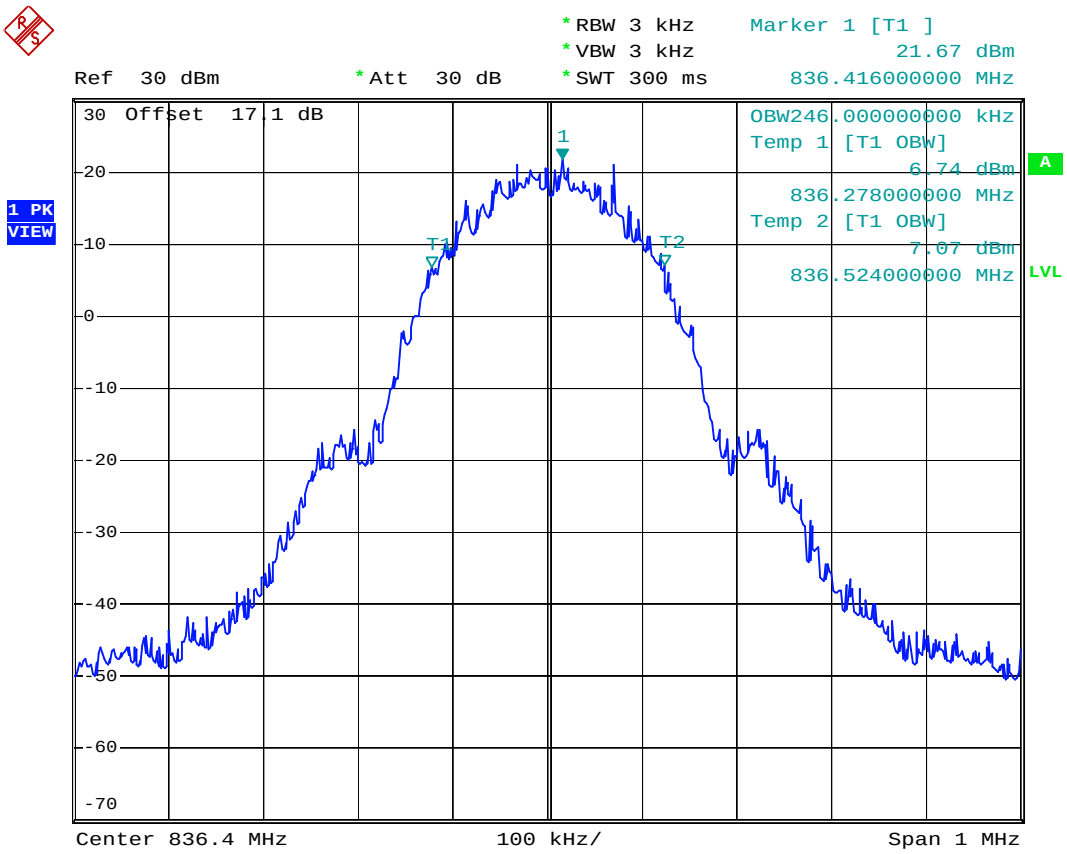
Date: 1.DEC.2006 16:20:47

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



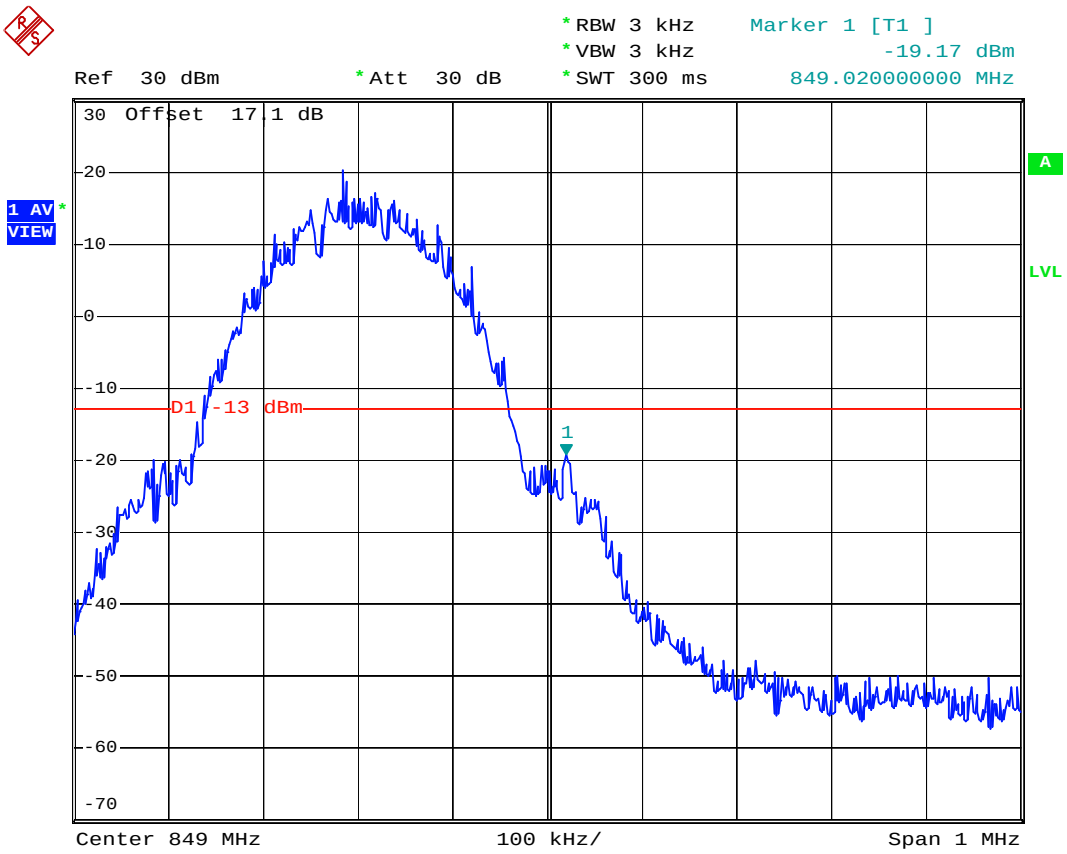
Date: 1.DEC.2006 16:11:03

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



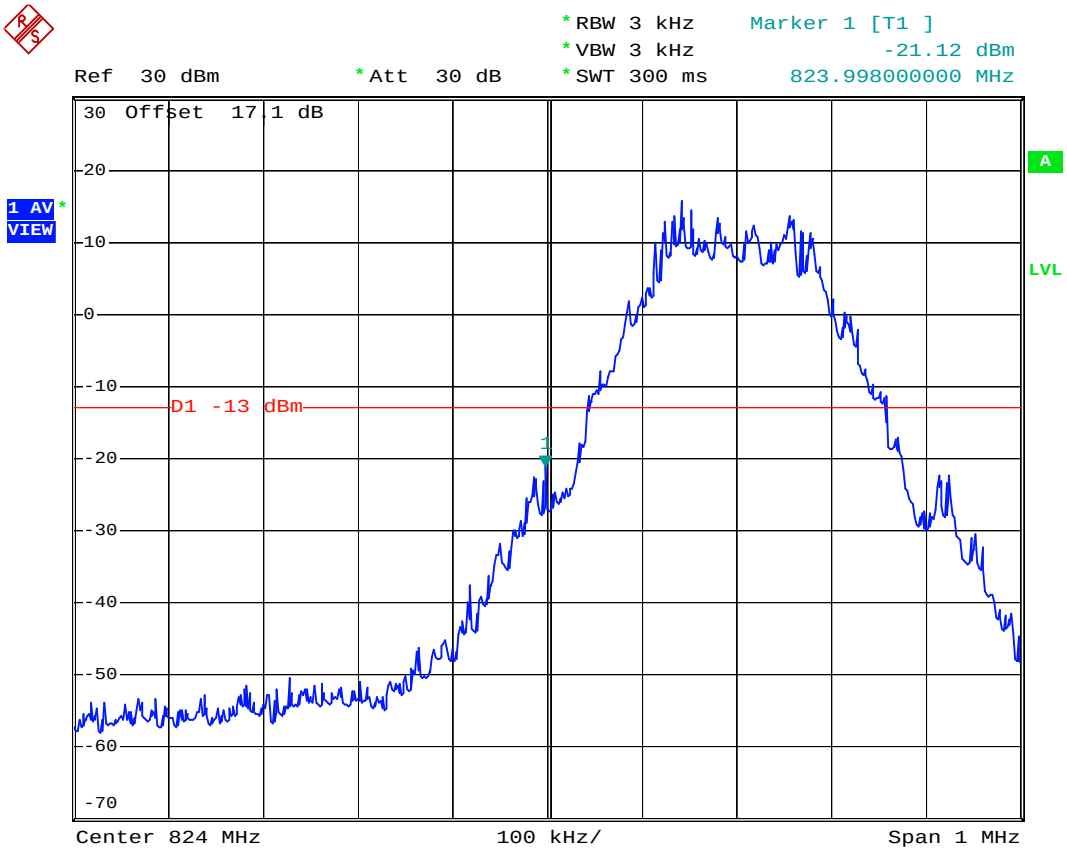
Date: 1.DEC.2006 16:09:57

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



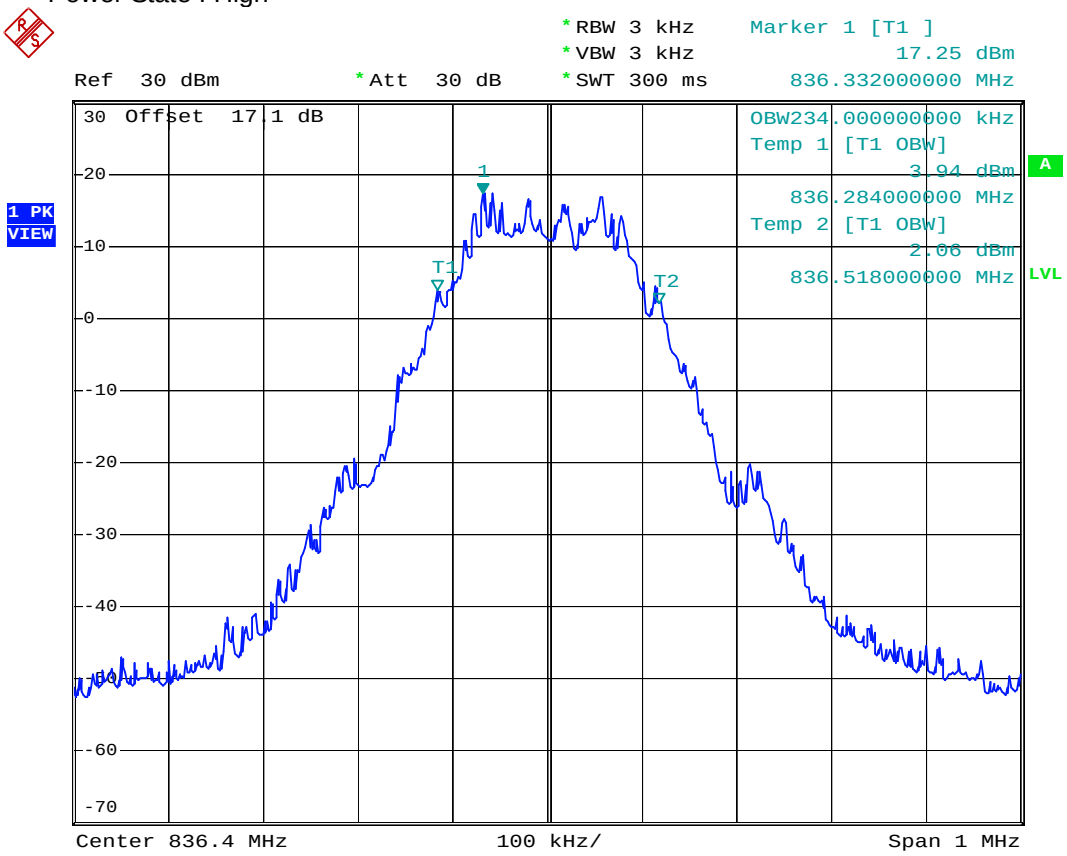
Date: 1.DEC.2006 16:21:28

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



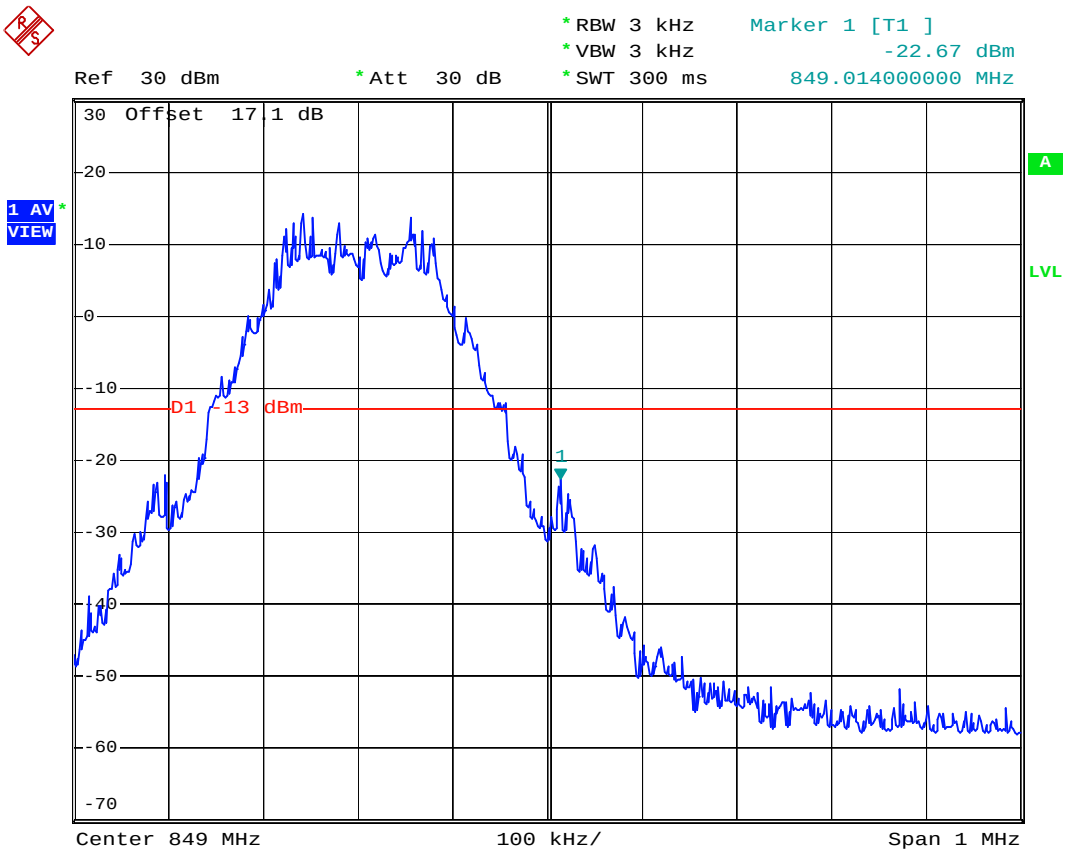
Date: 7.FEB.2007 15:06:32

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



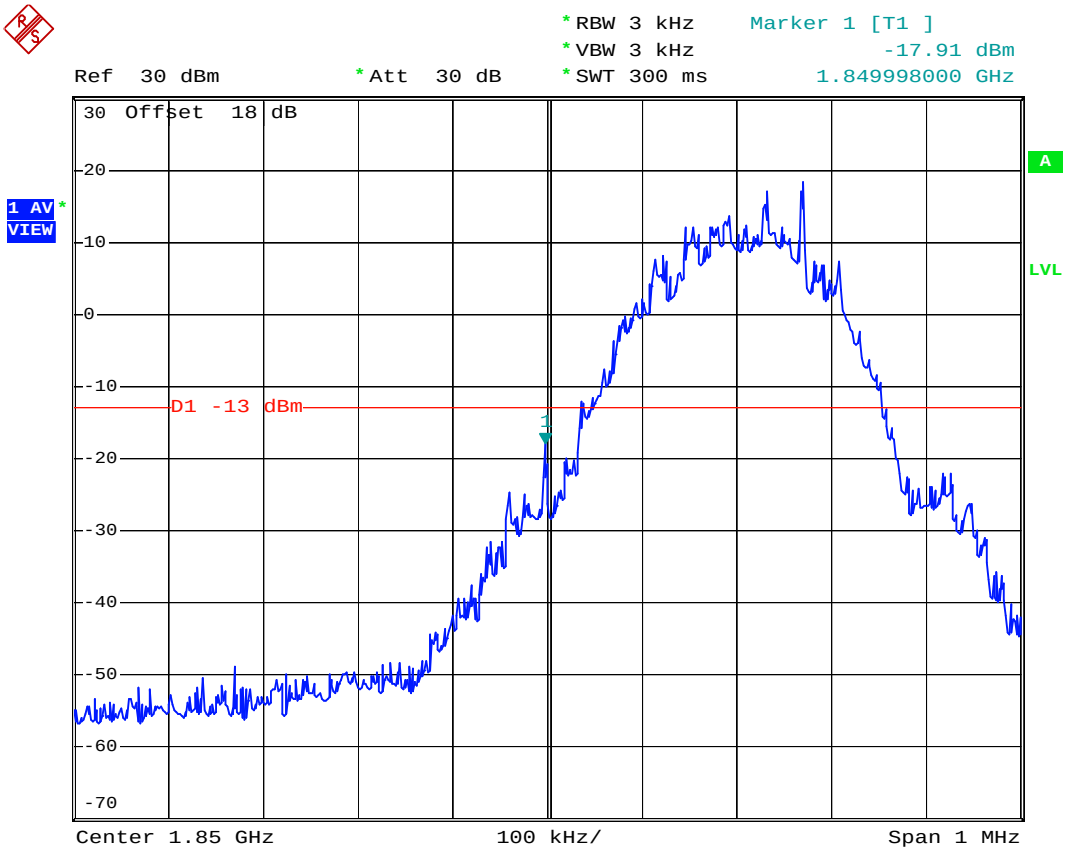
Date: 9.FEB.2007 14:33:24

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



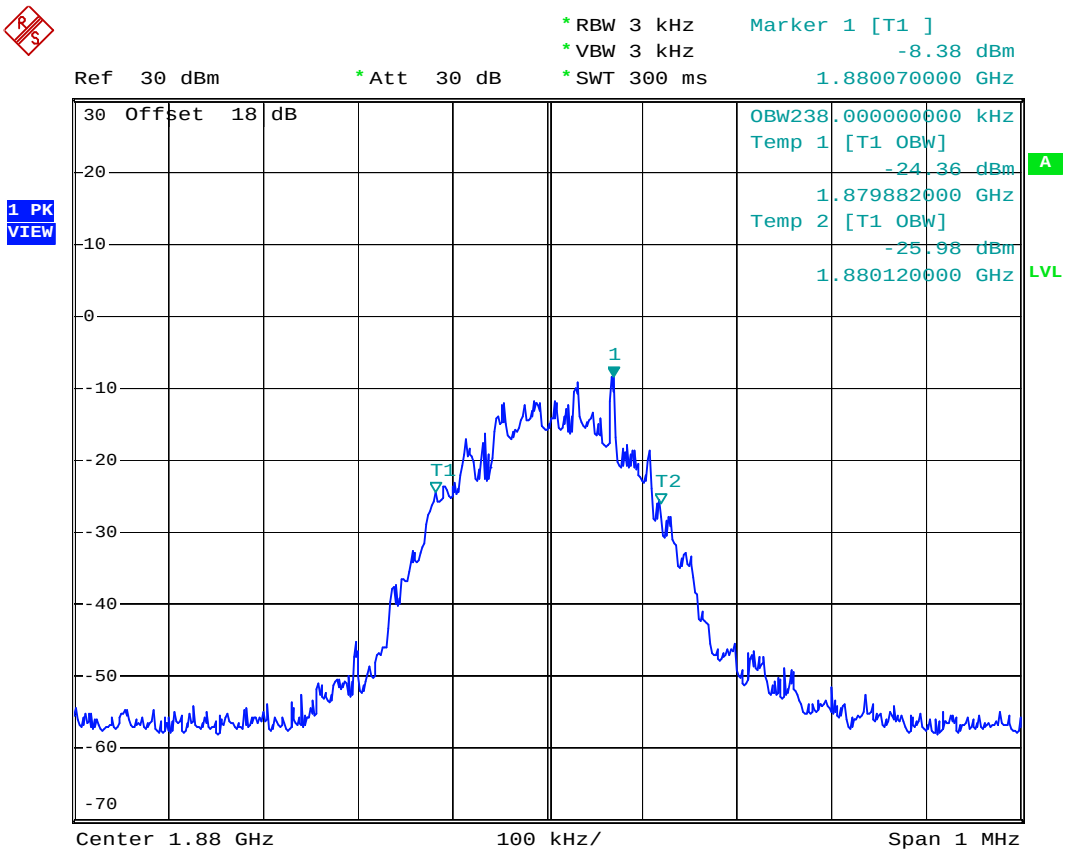
Date: 7.FEB.2007 15:07:10

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



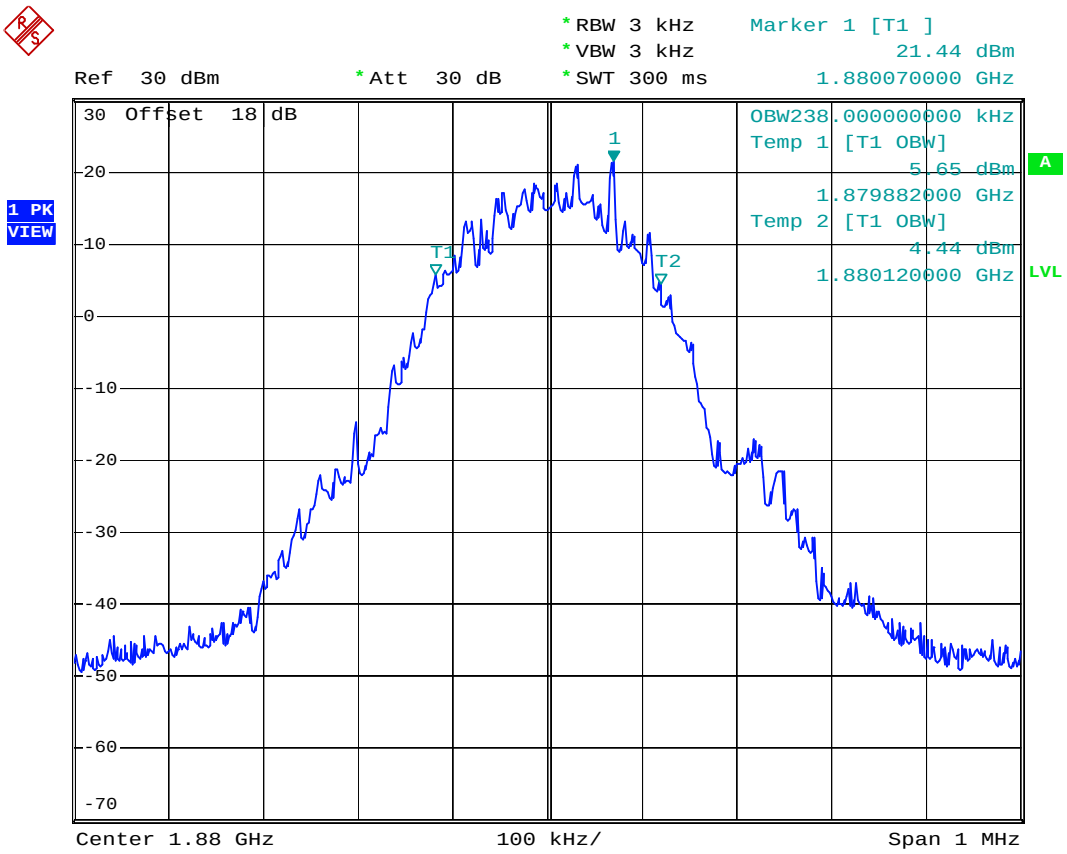
Date: 1.DEC.2006 16:51:34

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



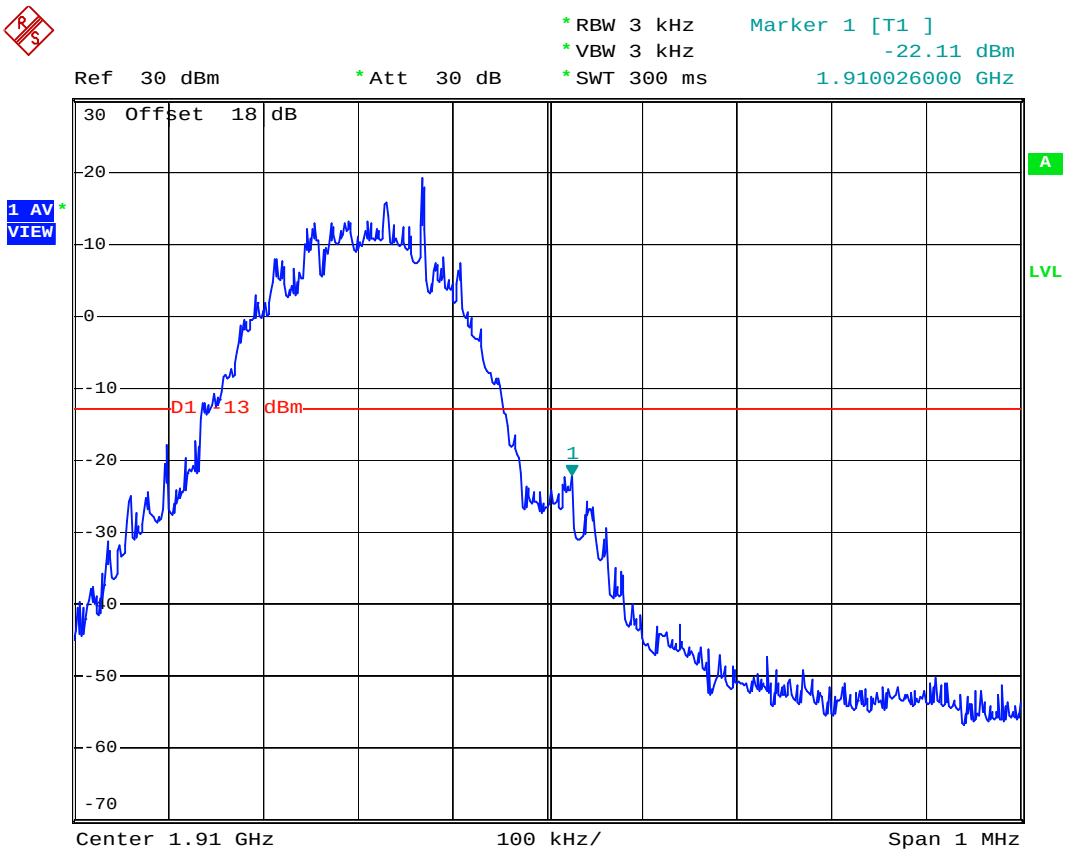
Date: 1.DEC.2006 16:48:24

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



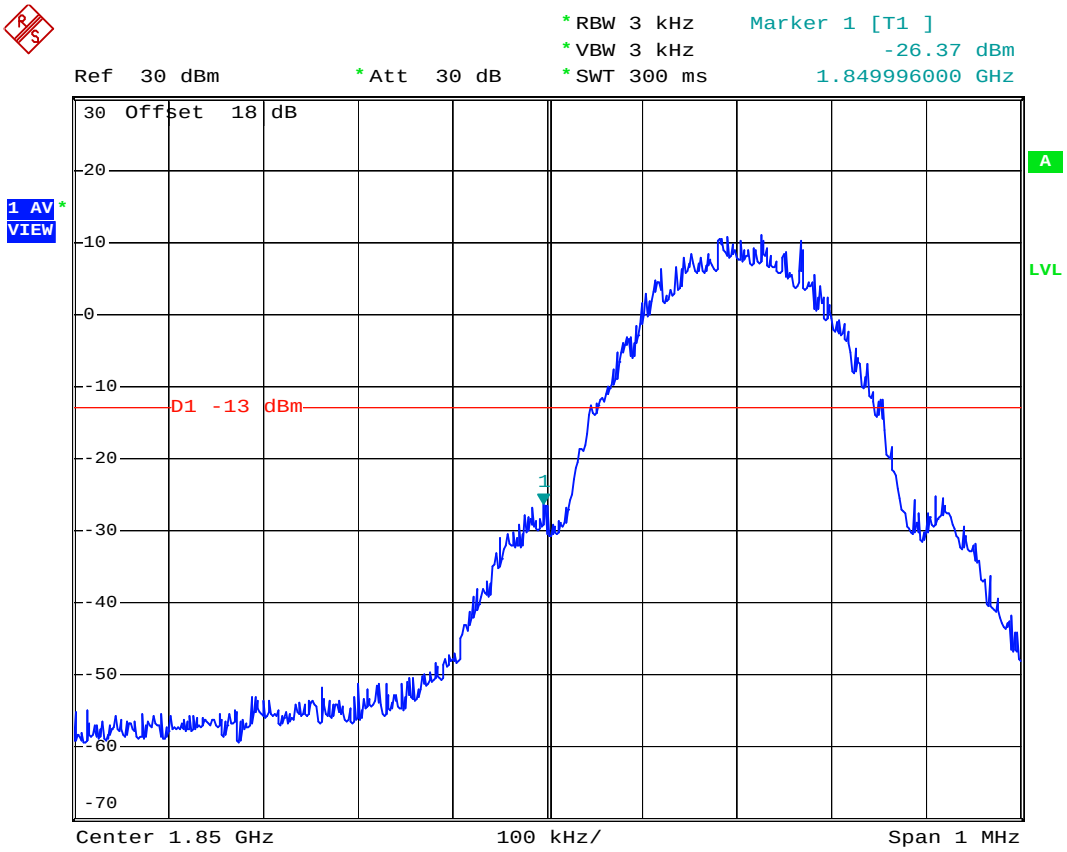
Date: 1.DEC.2006 16:47:51

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



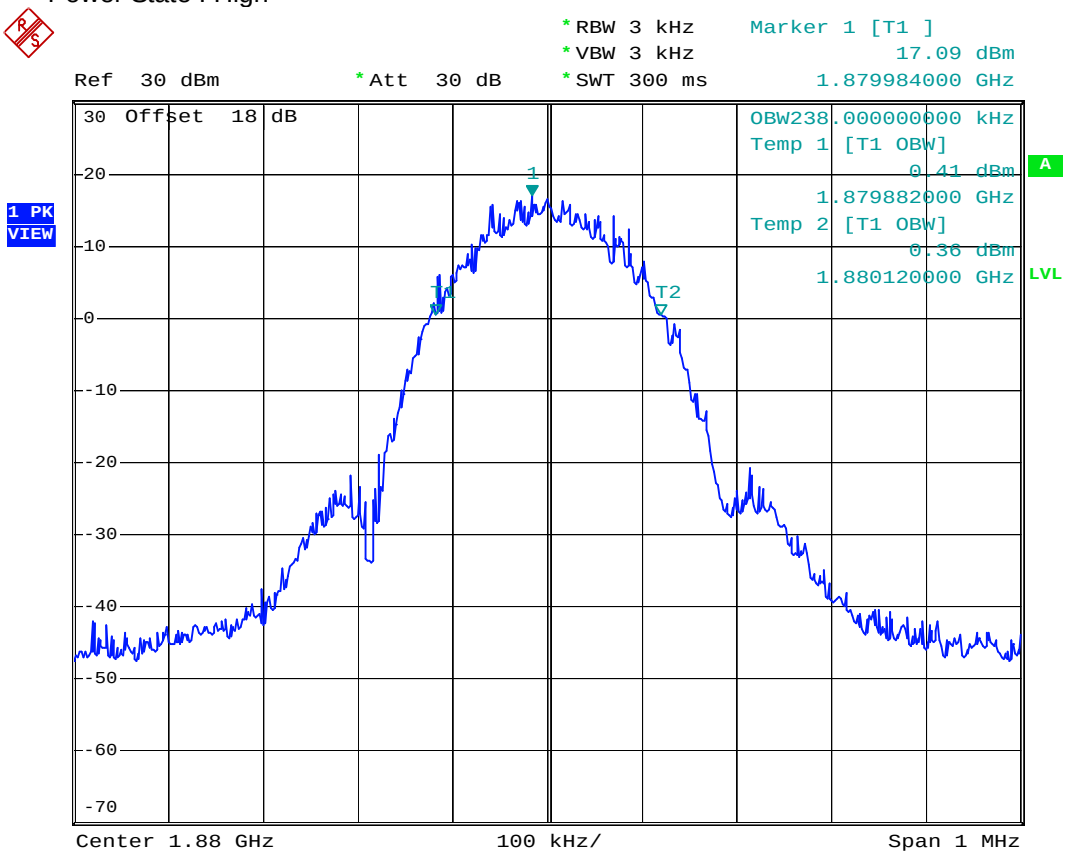
Date: 1.DEC.2006 16:50:12

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



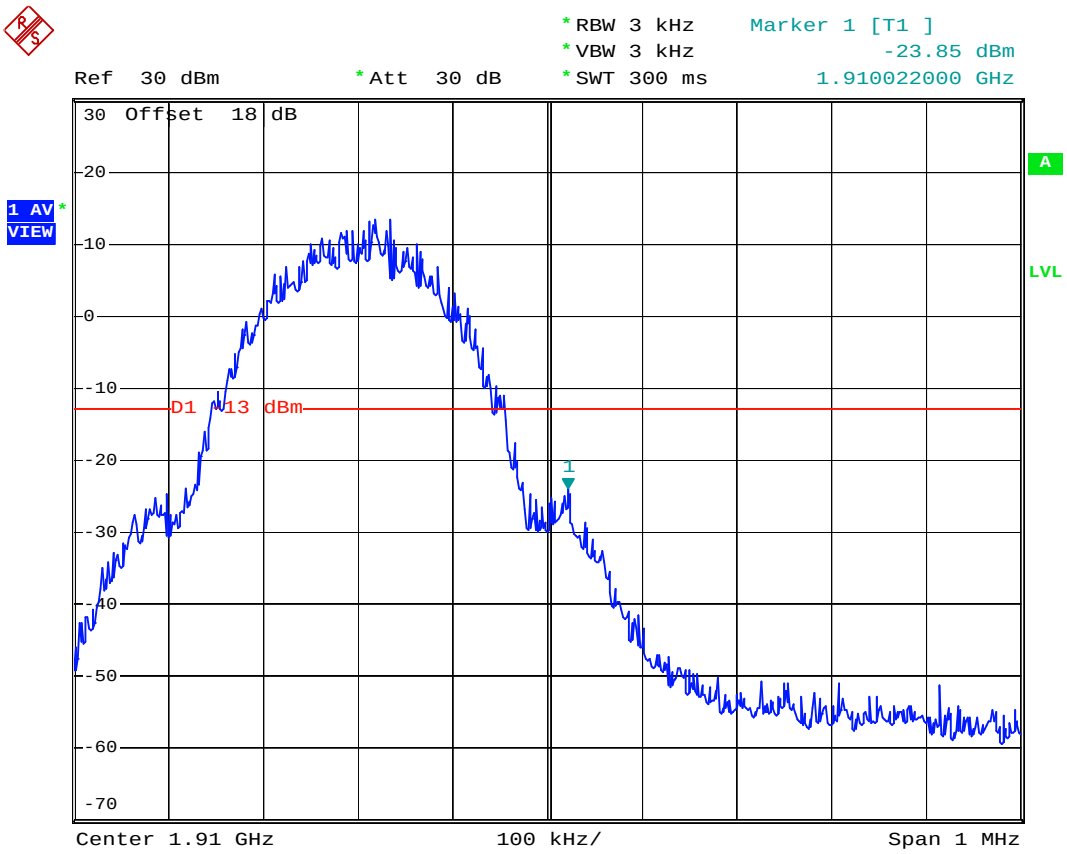
Date: 12.FEB.2007 11:16:12

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



Date: 7.FEB.2007 19:22:41

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



Date: 12.FEB.2007 11:17:34

4.5 Conducted Emission

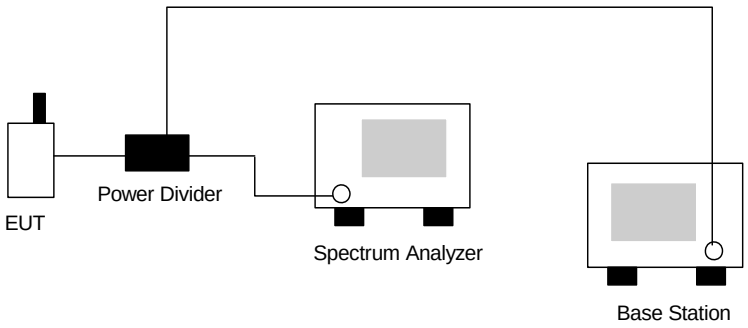
4.5.1 Measurement Instruments

As described in chapter 5 of this test report.

4.5.2 Test Procedure

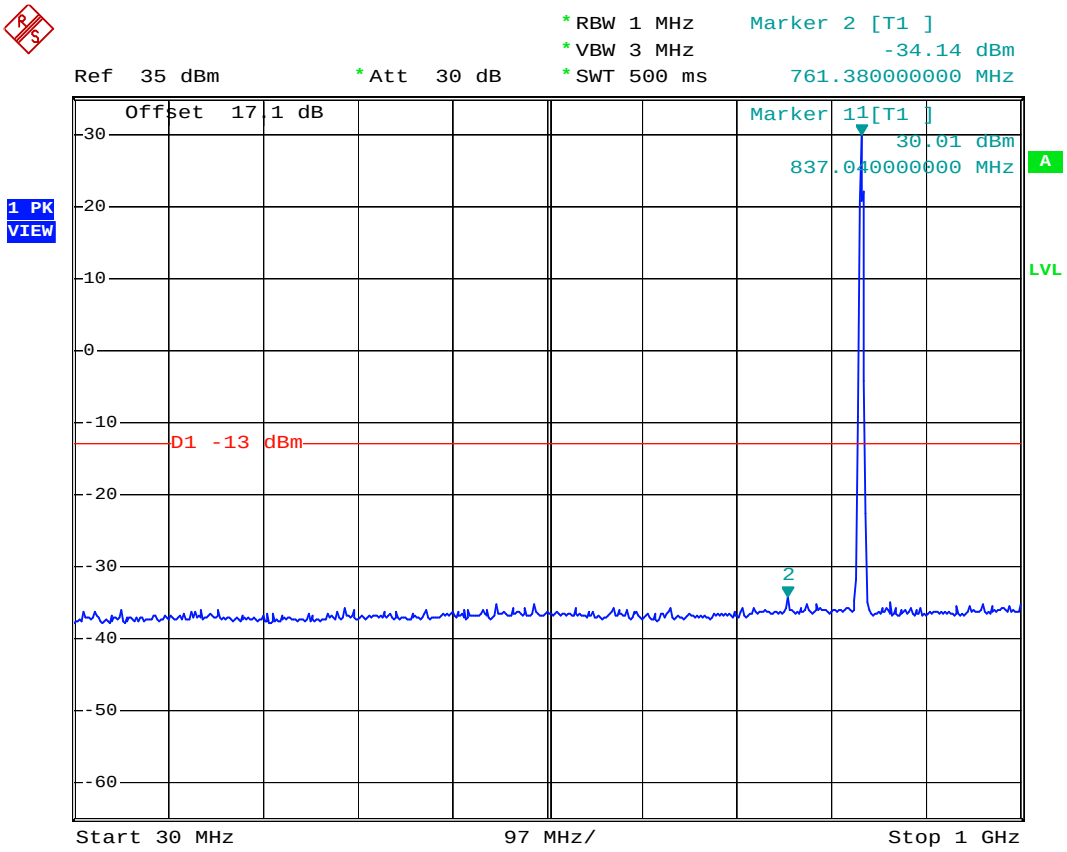
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.

4.5.3 Test Setup Layout



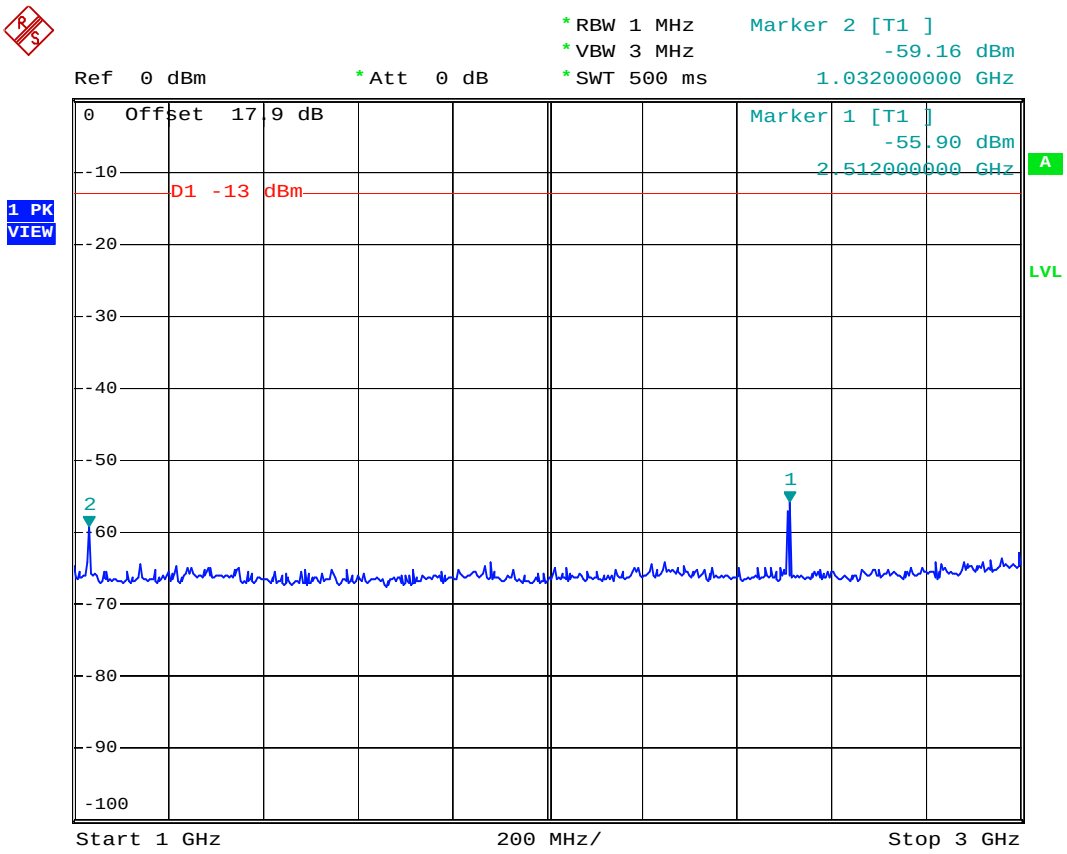
4.5.4 Test Result

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



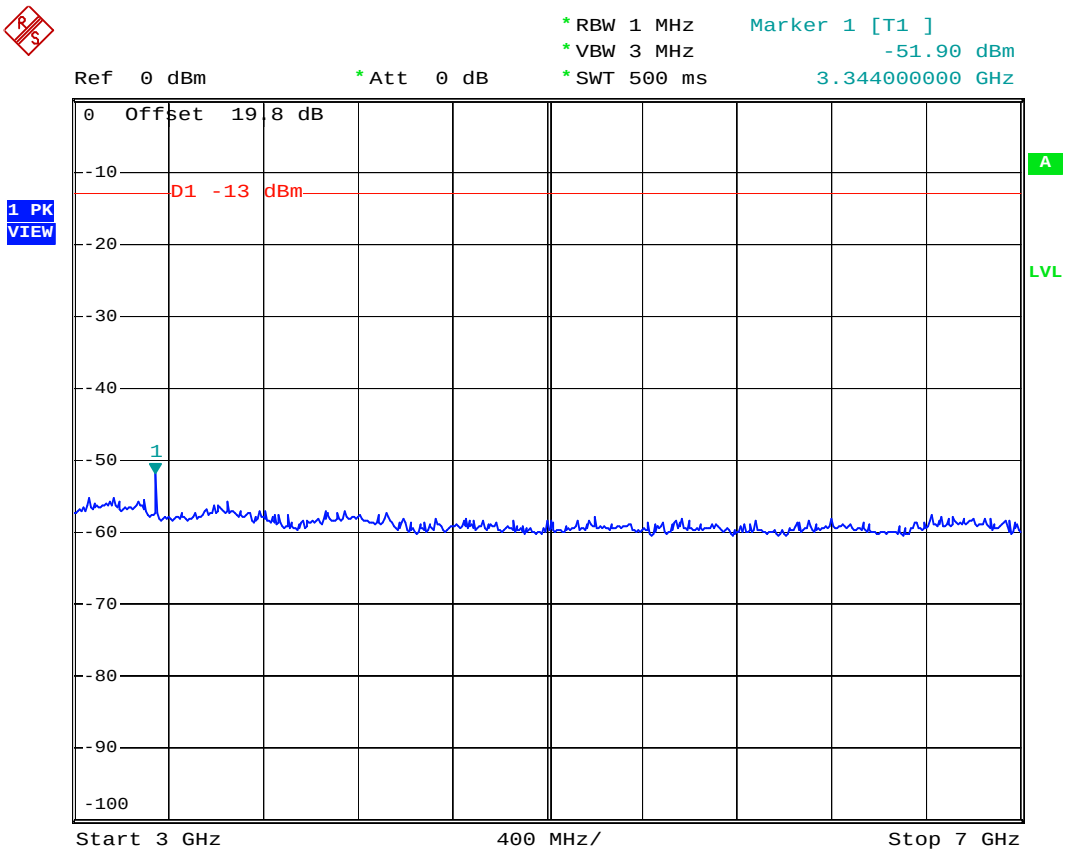
Date: 1.DEC.2006 16:23:50

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



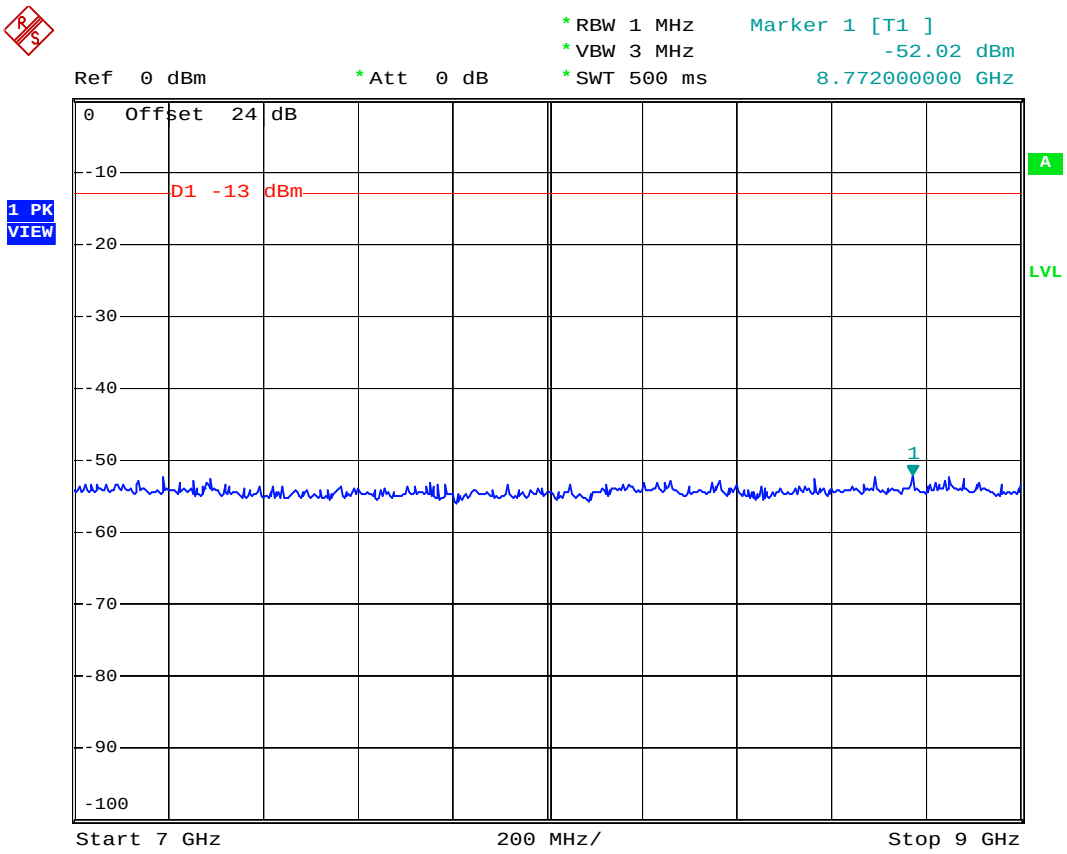
Date: 1.DEC.2006 16:28:46

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



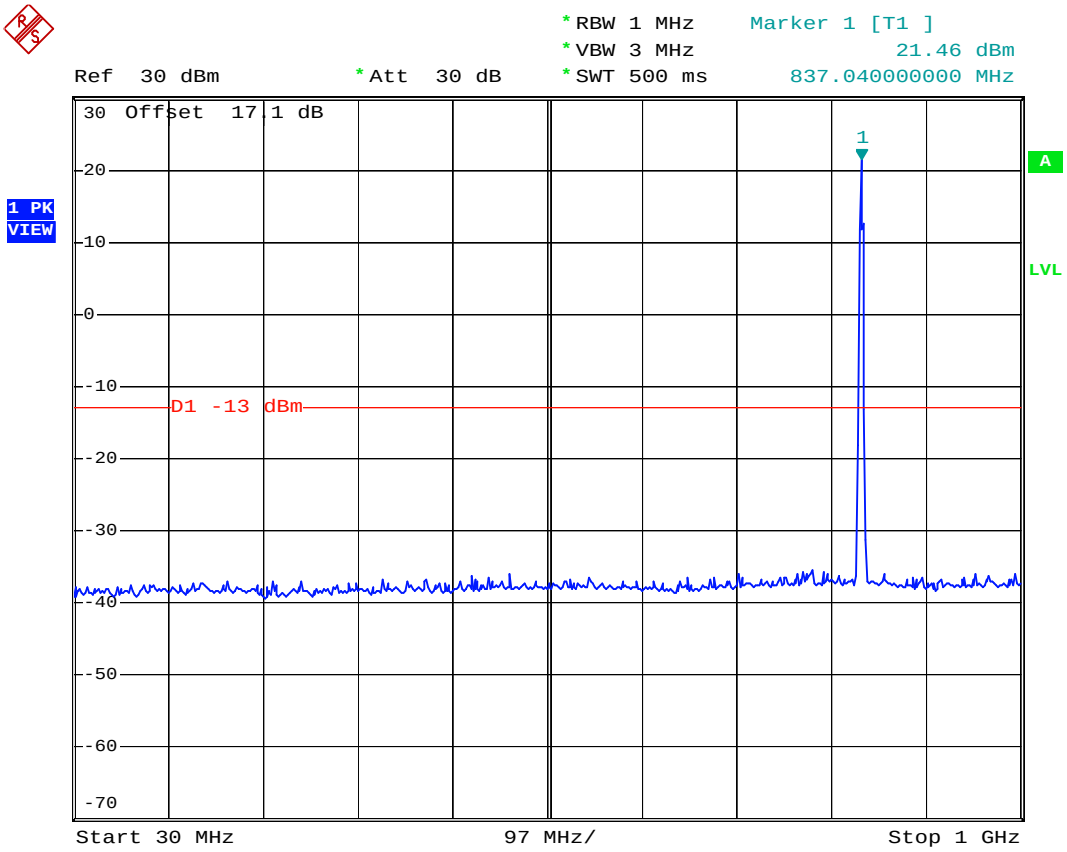
Date: 1.DEC.2006 16:30:30

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



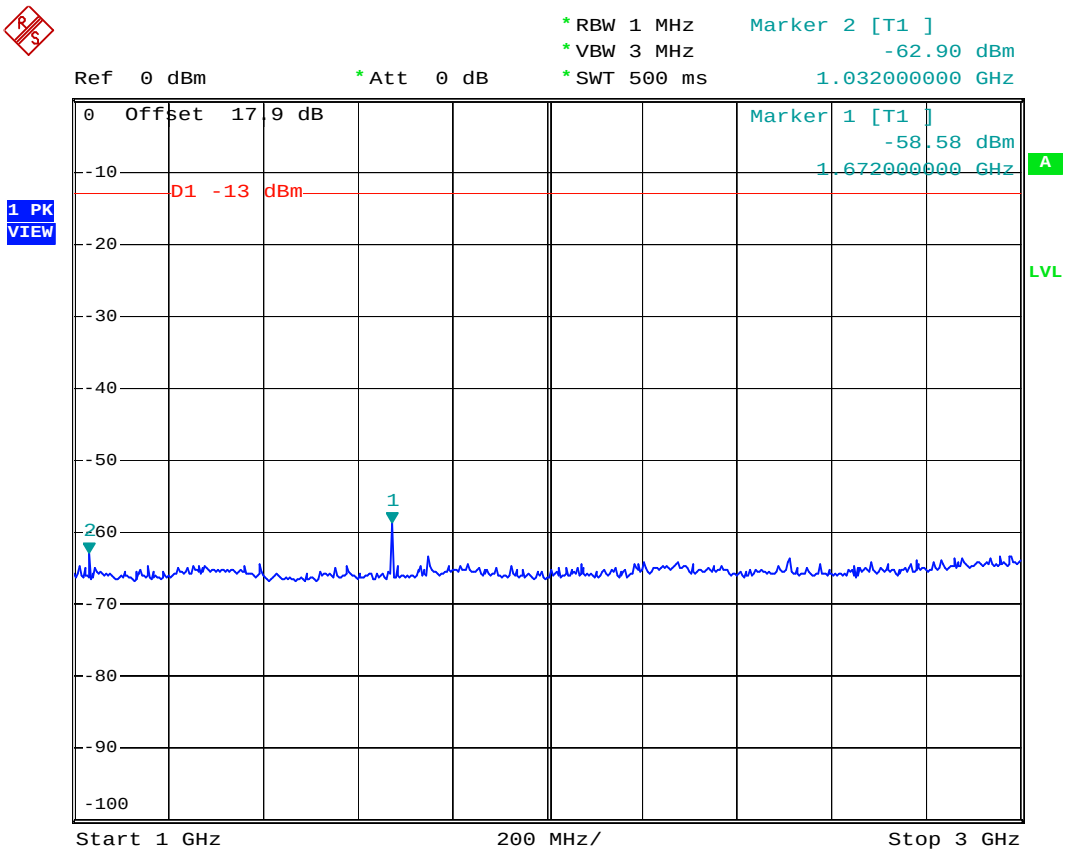
Date: 1.DEC.2006 16:31:44

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



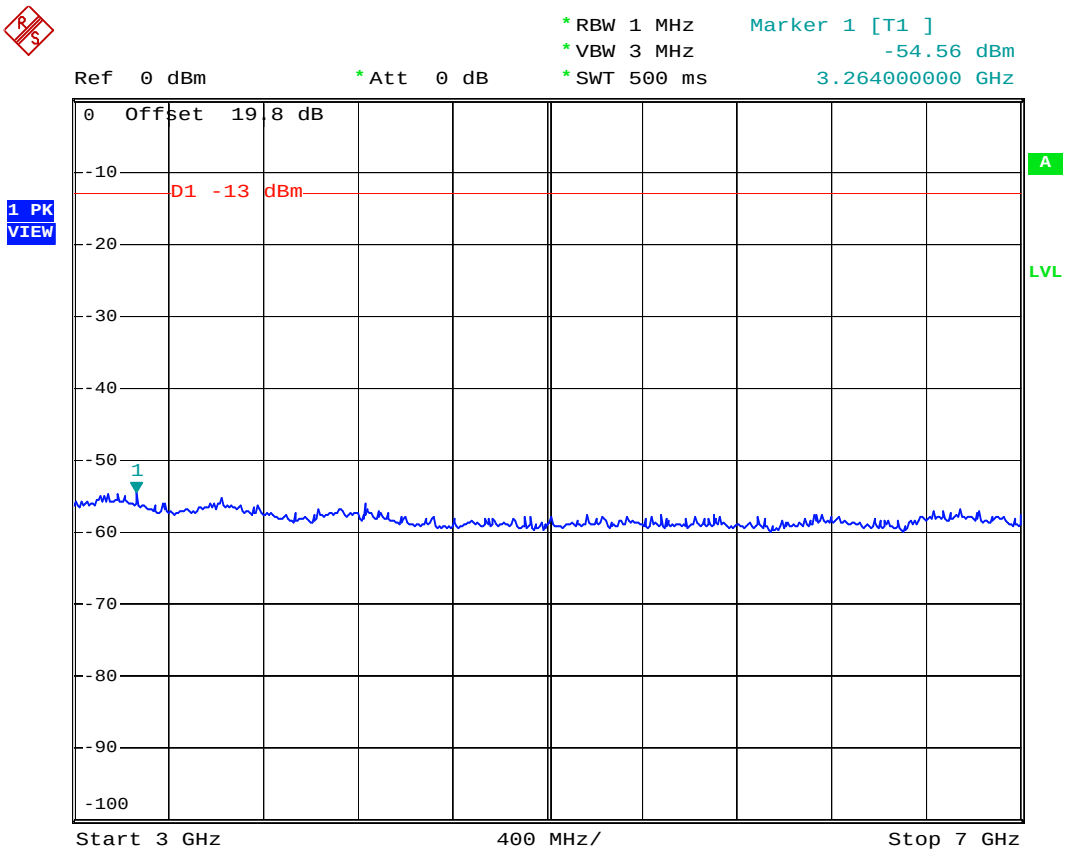
Date: 7.FEB.2007 15:08:27

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



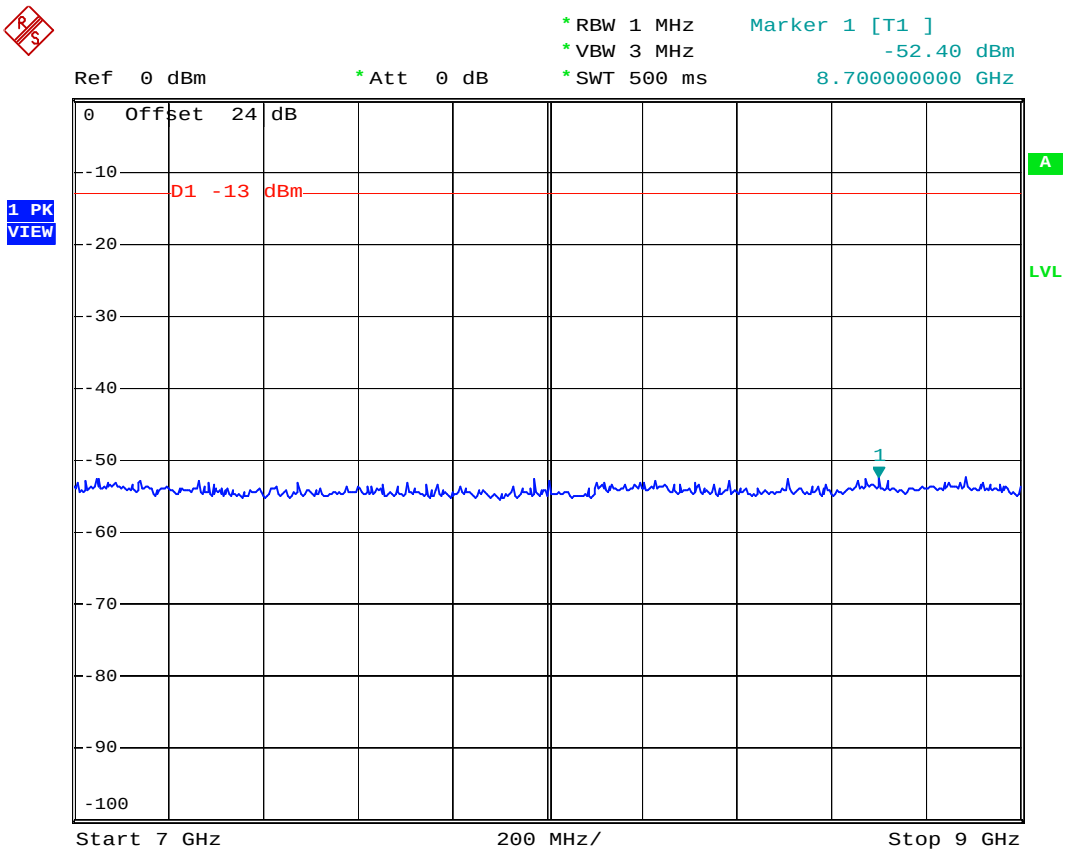
Date: 7.FEB.2007 15:13:49

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



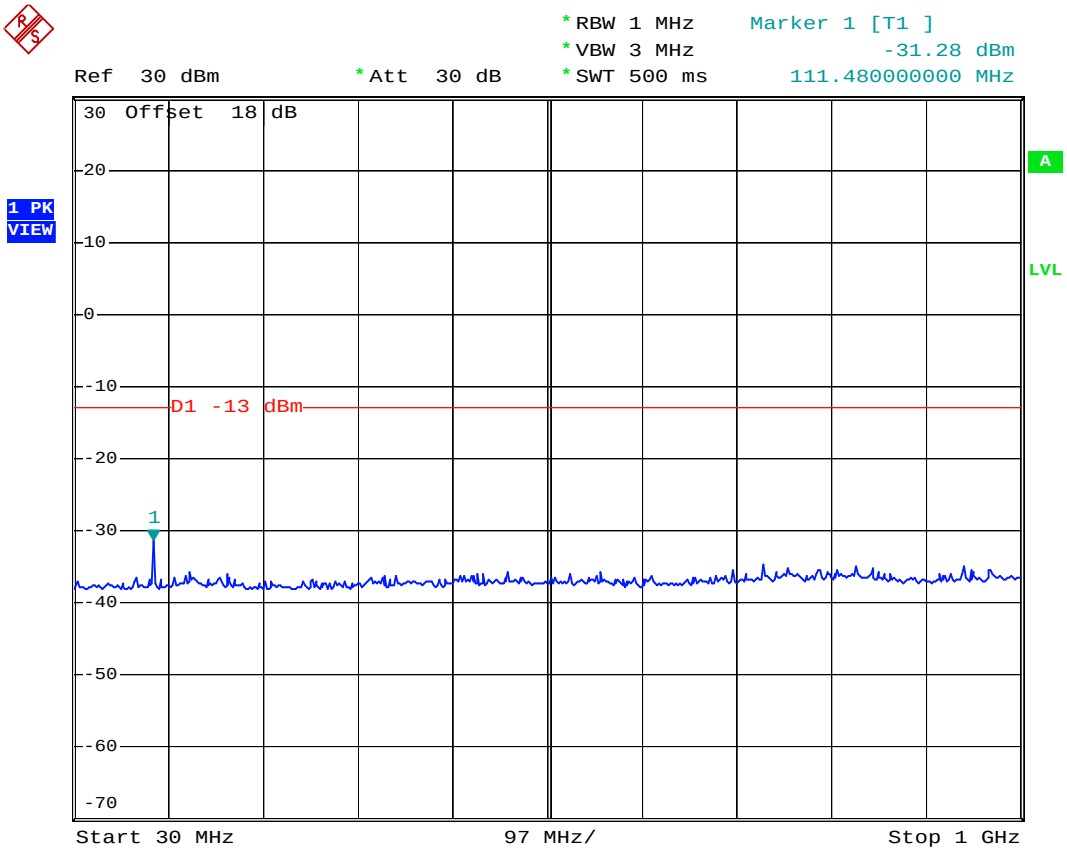
Date: 7.FEB.2007 15:15:31

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



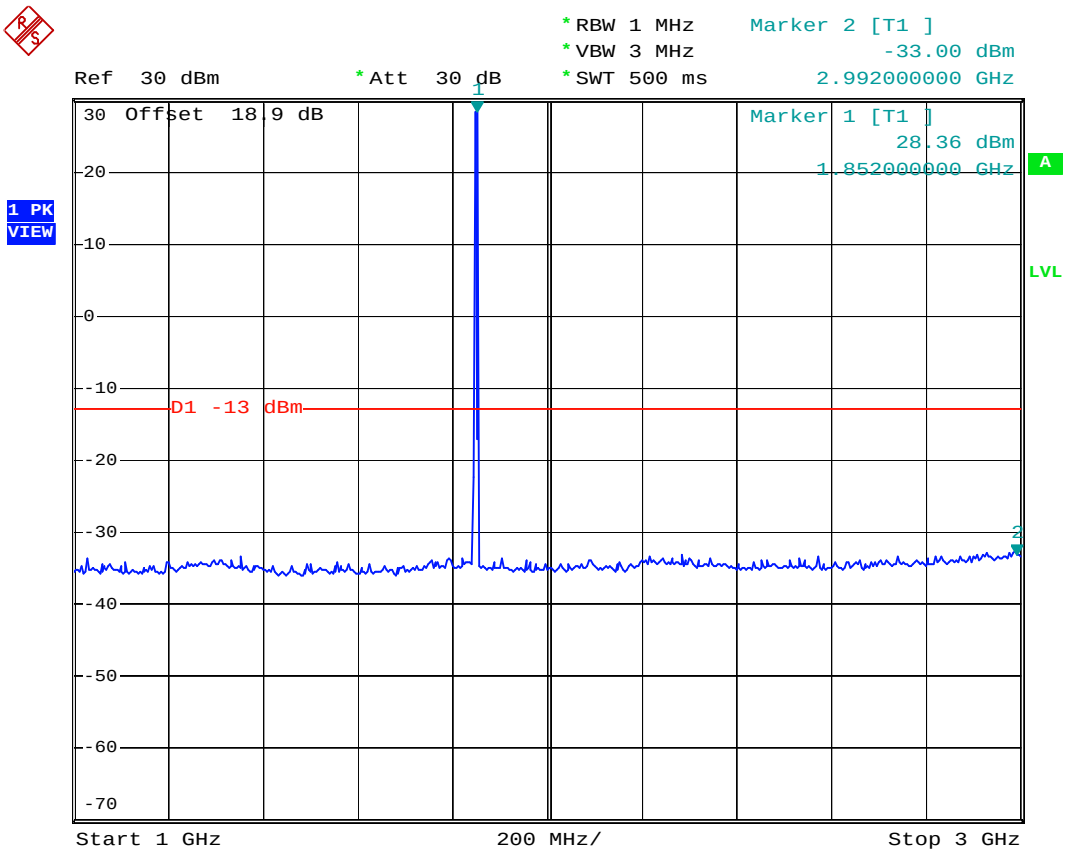
Date: 7.FEB.2007 15:18:03

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



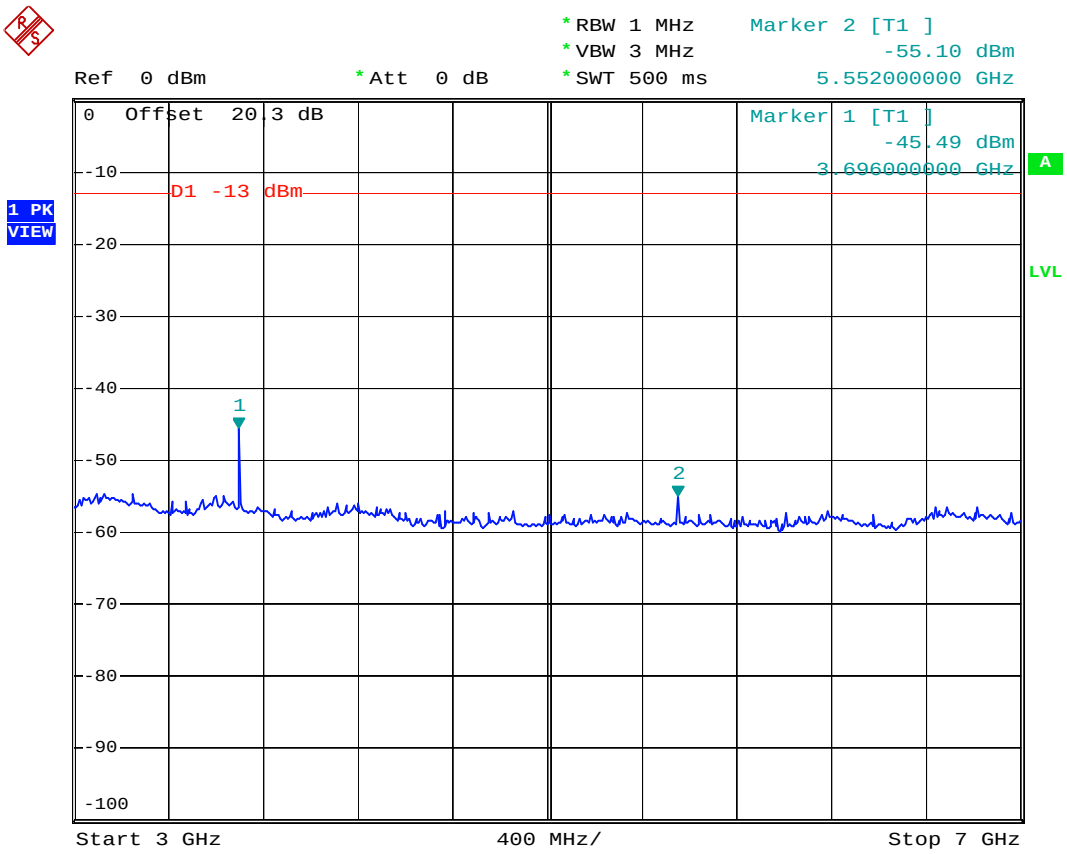
Date: 1.DEC.2006 16:55:15

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



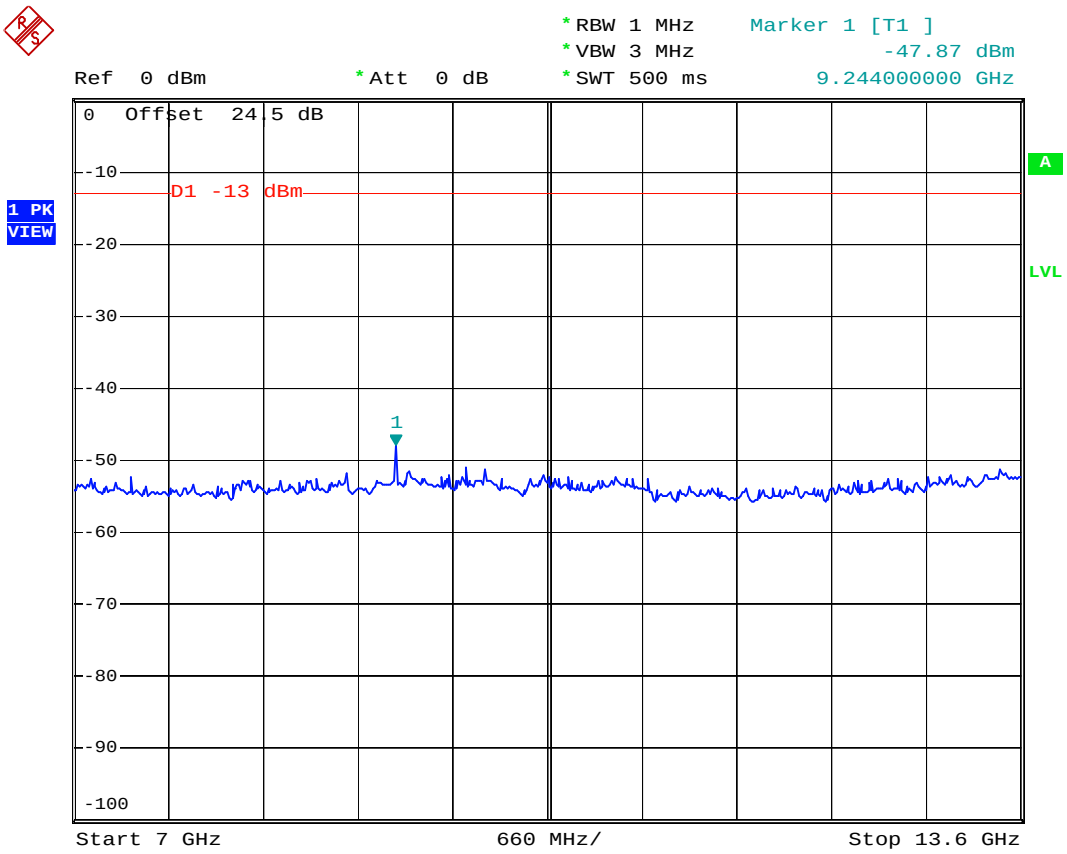
Date: 1.DEC.2006 16:56:59

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



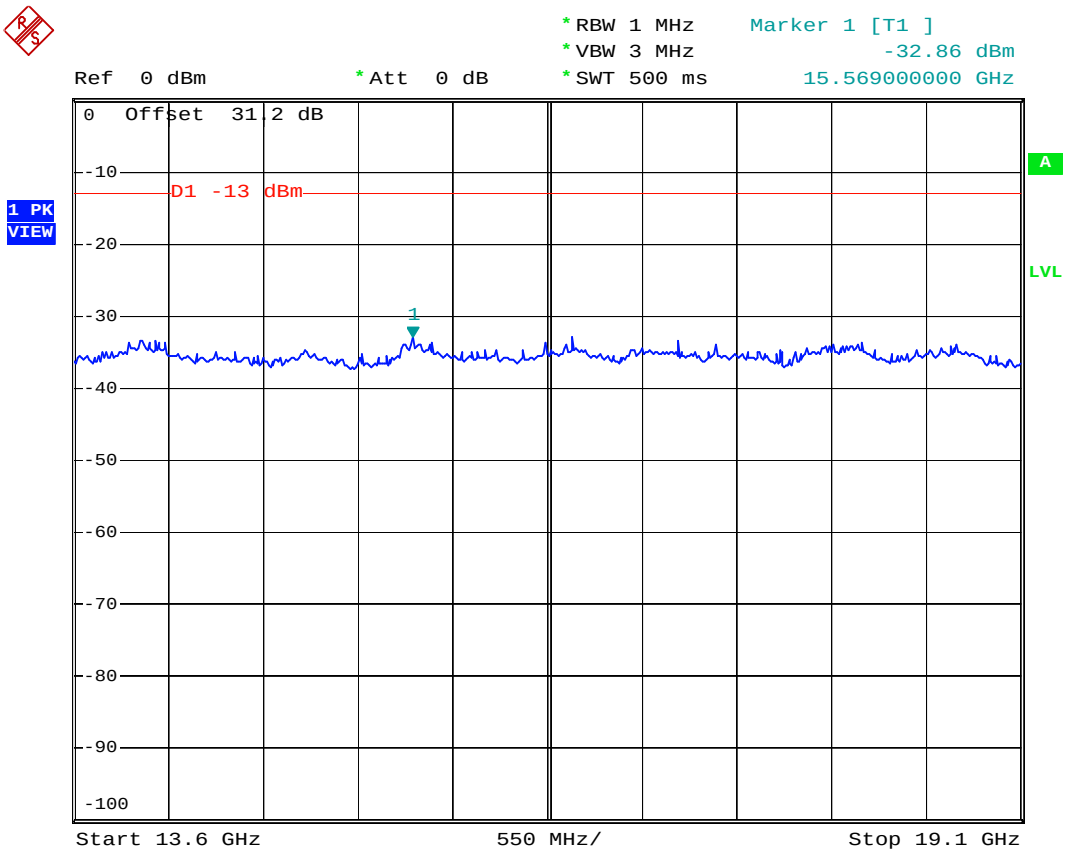
Date: 1.DEC.2006 16:58:53

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



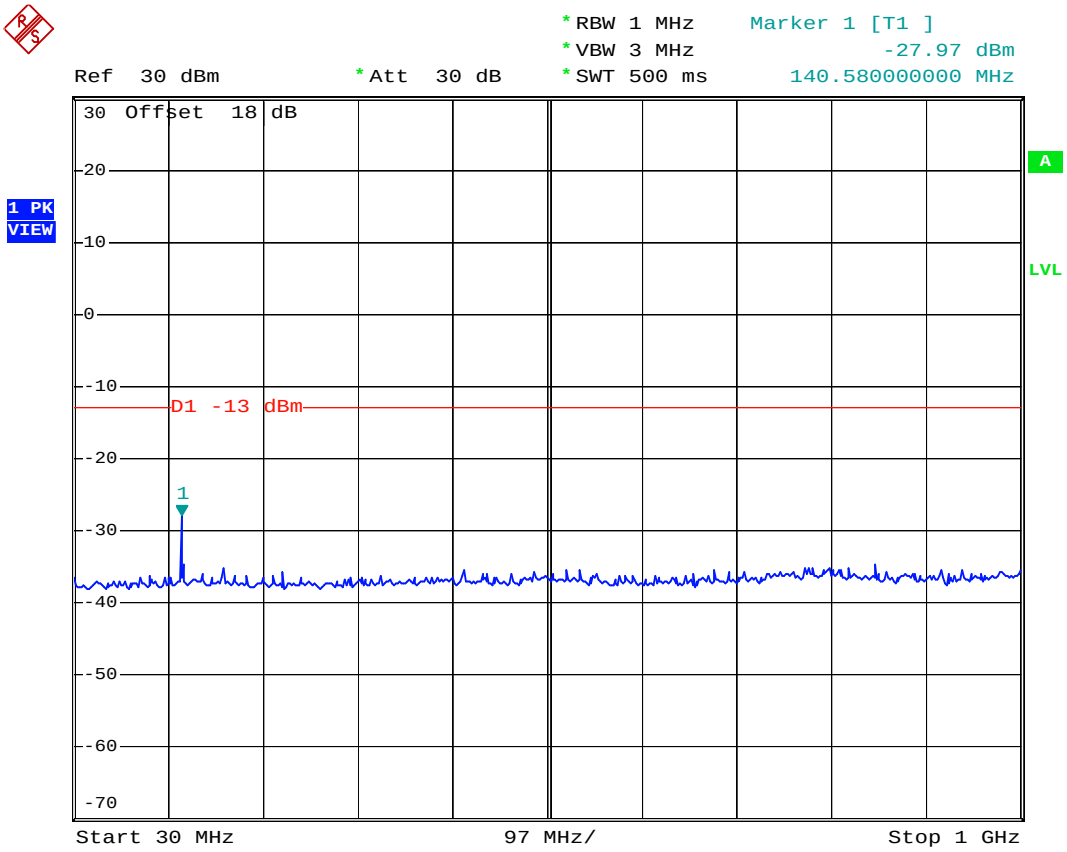
Date: 1.DEC.2006 17:04:34

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



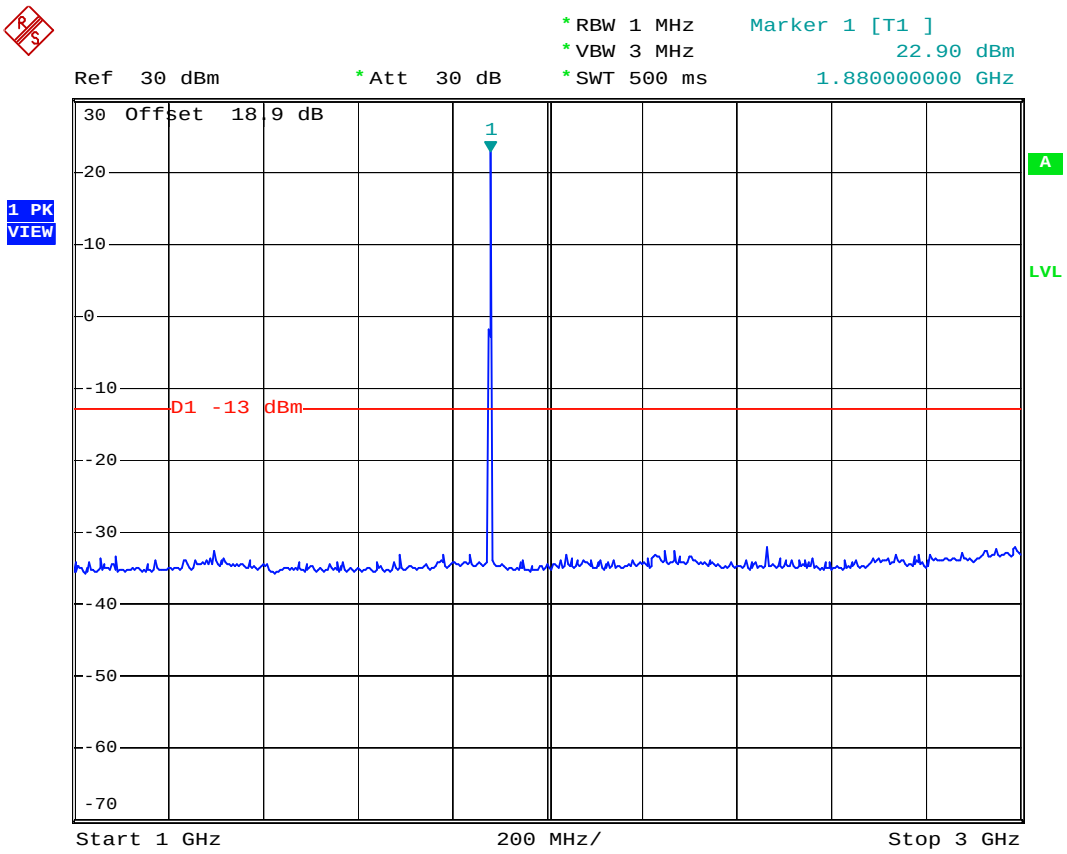
Date: 1.DEC.2006 17:06:29

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



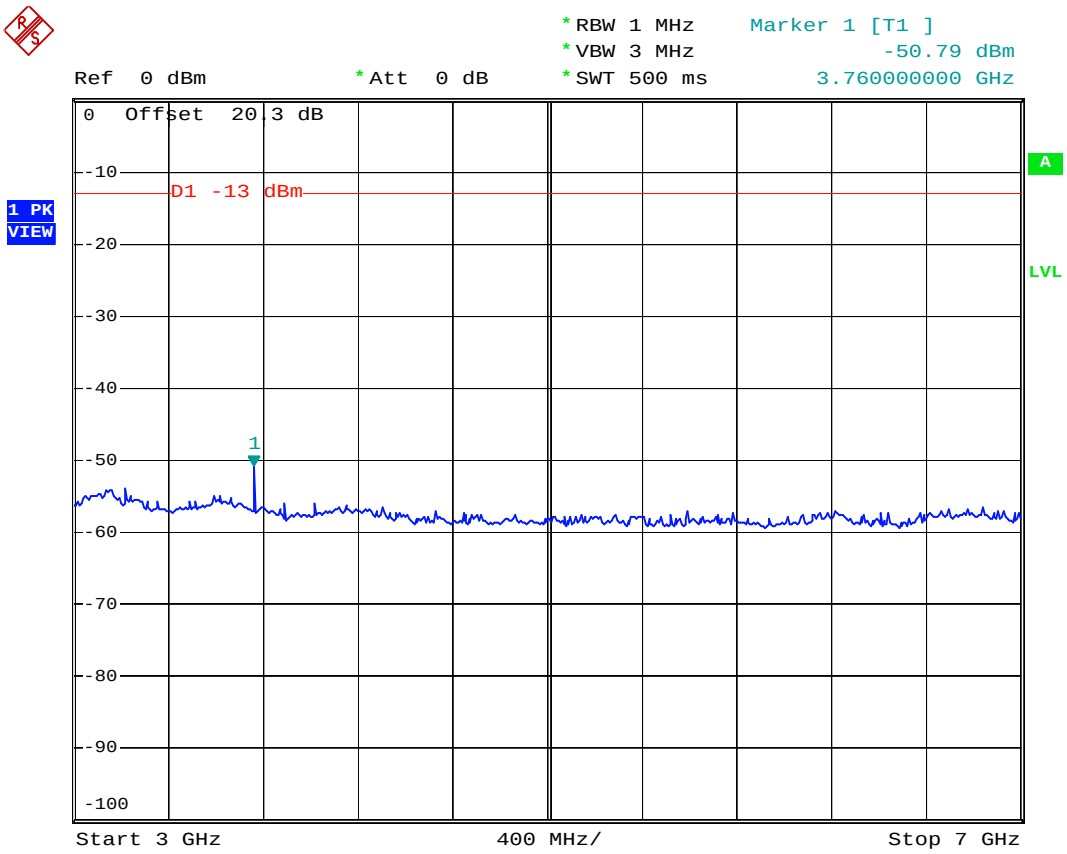
Date: 7.FEB.2007 19:28:56

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



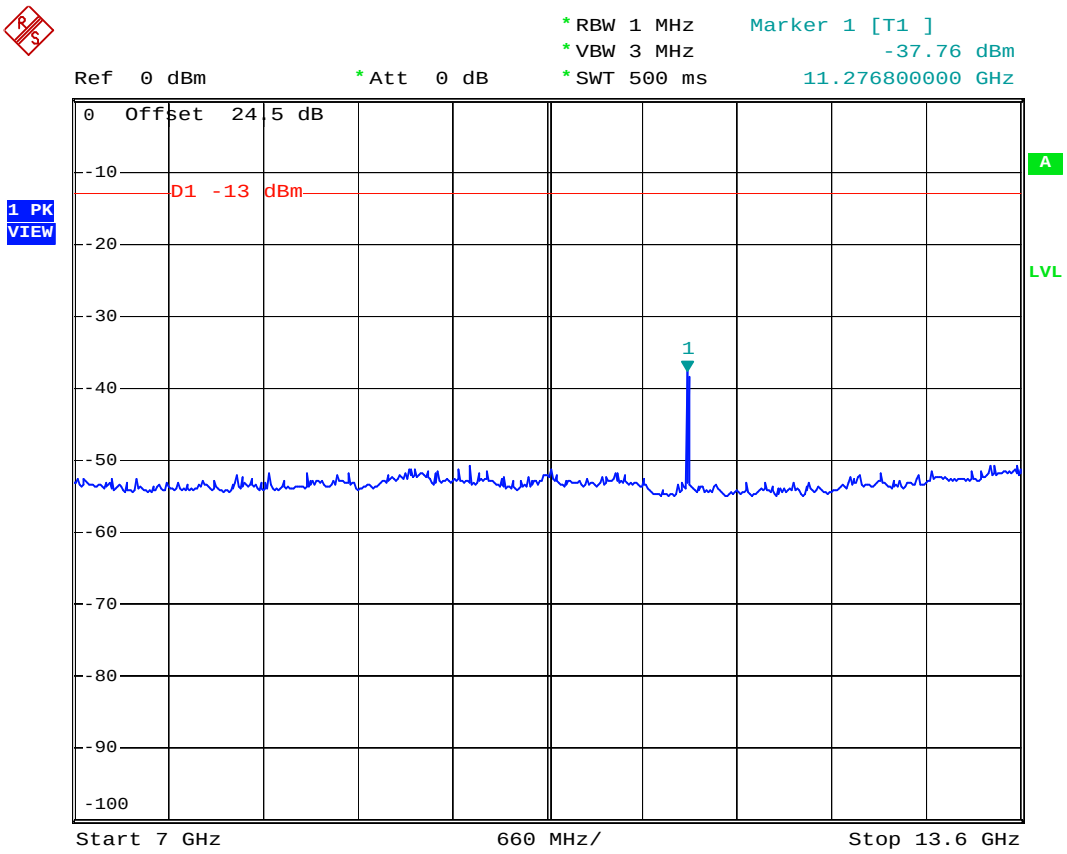
Date: 9.FEB.2007 14:48:31

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



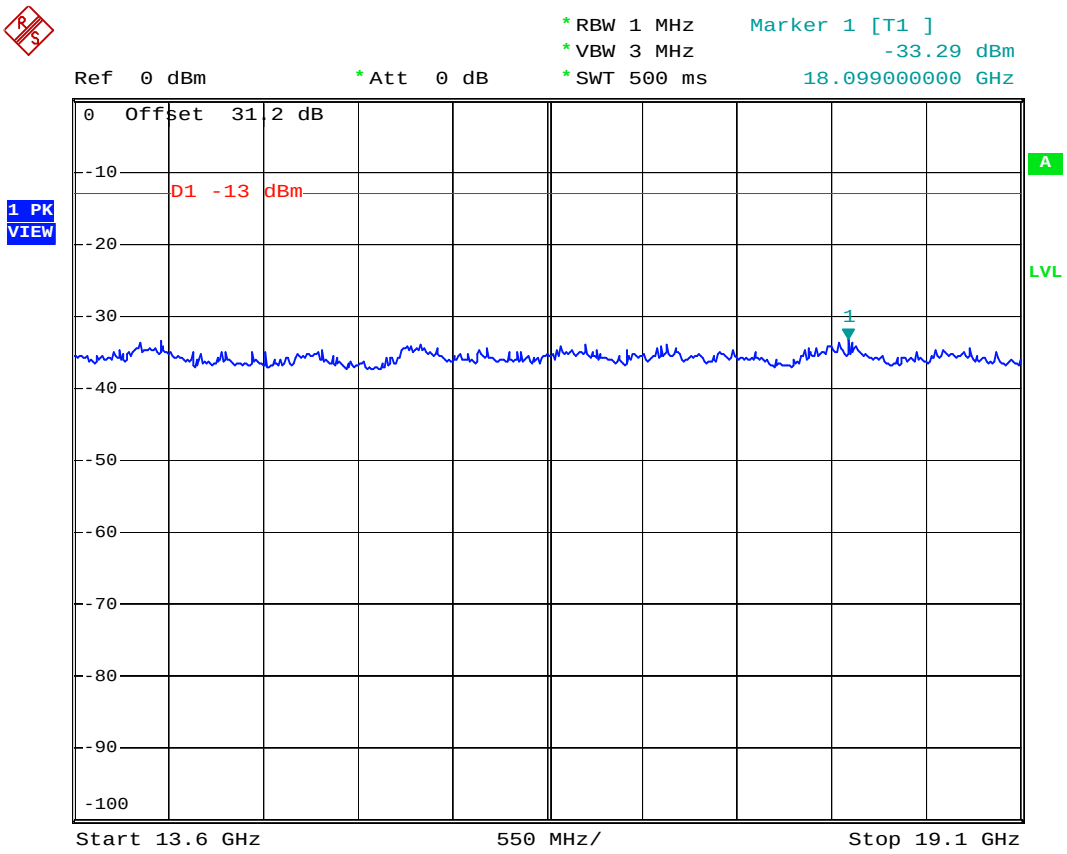
Date: 7.FEB.2007 19:41:20

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



Date: 7.FEB.2007 19:43:12

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



Date: 7.FEB.2007 19:44:50

4.6 Field Strength of Spurious Radiation

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

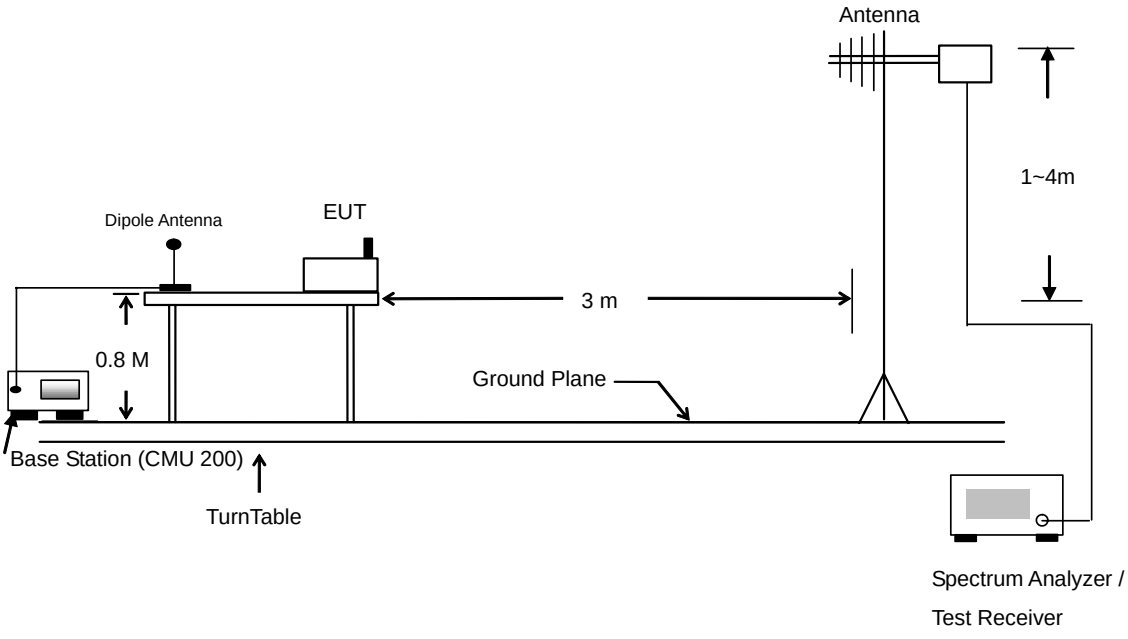
4.6.1 Measurement Instruments

As described in chapter 5 of this test report.

4.6.2 Test Procedure

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

4.6.3 Test Setup Layout



4.6.4 Test Result

- Test Mode : Mode 1

GSM850 (GSM) Radiated Spurious ERP for 7527C							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
33.780	-52.260	-13	-39.26	34.590	-40.360	-13	-27.36
146.640	-51.830	-13	-38.83	154.740	-46.010	-13	-33.01
225.480	-44.650	-13	-31.65	226.290	-40.380	-13	-27.38
402.900	-56.560	-13	-43.56	623.400	-56.420	-13	-43.42
1674.000	-37.210	-13	-24.21	1674.000	-34.020	-13	-21.02
2508.000	-47.230	-13	-34.23	2508.000	-45.820	-13	-32.82
3344.000	**-33.790**	**-13**	**-20.79**	3344.000	-38.020	-13	-25.02
4184.000	-50.030	-13	-37.03	3498.000	-54.940	-13	-41.94
5018.000	-52.250	-13	-39.25	3524.000	-53.370	-13	-40.37
				3578.000	-54.680	-13	-41.68
				3664.000	-55.360	-13	-42.36
				5018.000	-51.790	-13	-38.79
				5854.000	-53.810	-13	-40.81

- Test Mode : Mode 2

GSM850 (EDGE) Radiated Spurious ERP for 7527C							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
33.240	-50.480	-13	-37.48	**33.240**	**-38.120**	**-13**	**-25.12**
145.290	-50.900	-13	-37.90	82.380	-46.500	-13	-33.50
238.440	-45.560	-13	-32.56	237.630	-42.160	-13	-29.16
995.800	-50.140	-13	-37.14	995.800	-57.070	-13	-44.07
1000.000	-54.880	-13	-41.88	1674.000	-52.040	-13	-39.04
1034.000	-55.680	-13	-42.68	2508.000	-47.110	-13	-34.11
1674.000	-49.390	-13	-36.39	4184.000	-55.470	-13	-42.47
2508.000	-46.680	-13	-33.68				

- Test Mode : Mode 3

PCS1900 (GSM) Radiated Spurious EIRP for 7527C							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
70.230	-57.660	-13	-44.66	44.580	-52.440	-13	-39.44
204.690	-58.770	-13	-45.77	95.880	-57.330	-13	-44.33
298.380	-47.580	-13	-34.58	299.190	-48.070	-13	-35.07
308.400	-44.500	-13	-31.50	304.900	-48.430	-13	-35.43
519.800	-57.360	-13	-44.36	519.800	-54.700	-13	-41.70
623.400	-56.790	-13	-43.79	623.400	-51.810	-13	-38.81
1718.000	-46.480	-13	-33.48	1718.000	-51.080	-13	-38.08
3758.000	-43.780	-13	-30.78	3758.000	-53.370	-13	-40.37
5638.000	-51.250	-13	-38.25	5638.000	-48.160	-13	-35.16
				7518.000	**-32.280**	**-13**	**-19.28**

- Test Mode : Mode 4

PCS1900 (EDGE) Radiated Spurious EIRP for 7527C							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
39.180	-54.510	-13	-41.51	40.530	-50.590	-13	-37.59
112.080	-50.650	-13	-37.65	79.680	-49.120	-13	-36.12
145.290	-53.410	-13	-40.41	145.830	-49.390	-13	-36.39
449.800	-63.830	-13	-50.83	376.300	-61.220	-13	-48.22
831.300	-64.230	-13	-51.23	453.300	-62.860	-13	-49.86
962.900	-63.650	-13	-50.65	995.800	-61.280	-13	-48.28
1634.000	-58.380	-13	-45.38	1718.000	-49.640	-13	-36.64
1698.000	-54.980	-13	-41.98	3758.000	-42.390	-13	-29.39
1718.000	-46.500	-13	-33.50	5638.000	-46.760	-13	-33.76
3758.000	-46.020	-13	-33.02	7518.000	-43.640	-13	-30.64
5638.000	-45.670	-13	-32.67	11278.000	-42.250	-13	-29.25
7518.000	**-38.370**	**-13**	**-25.37**				
11278.000	-41.430	-13	-28.43				

- Test Mode : Mode 5

GSM850 (GSM) Radiated Spurious ERP for 7527S							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
33.780	-46.260	-13	-33.26	**33.780**	**-36.170**	**-13**	**-23.17**
144.480	-45.380	-13	-32.38	130.440	-47.230	-13	-34.23
219.540	-40.470	-13	-27.47	220.080	-38.620	-13	-25.62
444.900	-52.280	-13	-39.28	439.300	-51.090	-13	-38.09
1674.000	-40.150	-13	-27.15	1634.000	-56.890	-13	-43.89
2508.000	-46.810	-13	-33.81	1674.000	-43.100	-13	-30.10
				2508.000	-44.960	-13	-31.96

- Test Mode : Mode 6

GSM850 (EDGE) Radiated Spurious ERP for 7527S							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
39.180	-57.350	-13	-44.35	40.530	-52.810	-13	-39.81
123.690	-58.670	-13	-45.67	81.840	-48.960	-13	-35.96
141.780	-55.480	-13	-42.48	103.980	-42.890	-13	-29.89
179.040	-57.810	-13	-44.81	143.130	-47.540	-13	-34.54
516.300	-58.150	-13	-45.15	521.900	-59.730	-13	-46.73
675.900	-60.450	-13	-47.45	675.900	-61.220	-13	-48.22
995.800	-53.810	-13	-40.81	995.800	-58.100	-13	-45.10
1674.000	**-36.510**	**-13**	**-23.51**	1674.000	-37.470	-13	-24.47
2508.000	-39.650	-13	-26.65	2508.000	-40.970	-13	-27.97

- Test Mode : Mode 7

PCS1900 (GSM) Radiated Spurious EIRP for 7527S							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
81.030	-55.400	-13	-42.40	65.640	-53.350	-13	-40.35
99.930	-60.380	-13	-47.38	149.880	-46.880	-13	-33.88
148.530	-58.660	-13	-45.66	178.230	-53.390	-13	-40.39
402.900	-50.390	-13	-37.39	437.900	-50.930	-13	-37.93
439.300	-48.150	-13	-35.15	519.800	-58.120	-13	-45.12
519.800	-54.250	-13	-41.25	623.400	-57.480	-13	-44.48
1718.000	-47.280	-13	-34.28	1718.000	-52.470	-13	-39.47
3758.000	-45.920	-13	-32.92	3758.000	-43.630	-13	-30.63
5638.000	-48.780	-13	-35.78	5638.000	-51.580	-13	-38.58
				11278.000	**-43.310**	**-13**	**-30.31**

- Test Mode : Mode 8

PCS1900 (EDGE) Radiated Spurious EIRP for 7527S							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
80.490	-56.450	-13	-43.45	81.030	-48.870	-13	-35.87
125.040	-53.540	-13	-40.54	120.990	-48.570	-13	-35.57
147.180	-56.570	-13	-43.57	146.640	-49.920	-13	-36.92
831.300	-63.540	-13	-50.54	327.300	-60.550	-13	-47.55
917.400	-64.580	-13	-51.58	442.800	-63.700	-13	-50.70
978.300	-63.940	-13	-50.94	519.800	-63.060	-13	-50.06
1718.000	-48.920	-13	-35.92	1718.000	-55.940	-13	-42.94
3758.000	-35.720	-13	-22.72	1738.000	-53.980	-13	-40.98
5638.000	-41.410	-13	-28.41	**3758.000**	**-34.380**	**-13**	**-21.38**
5638.000	-37.120	-13	-24.12				

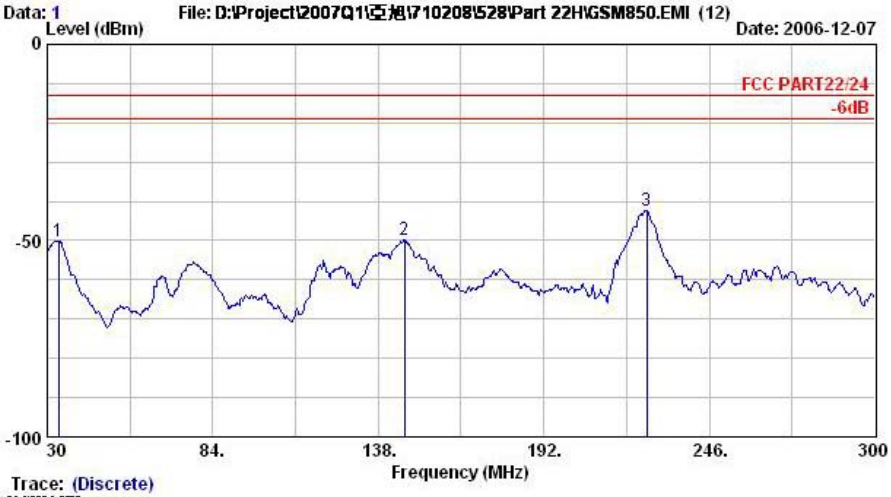
- Test Mode : Mode 9

GSM850 (GSM) with Bluetooth Co-location Radiated Spurious EIRP for 7527C							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
34.590	-49.690	-13	-36.69	35.940	-39.690	-13	-26.69
220.890	-38.990	-13	-25.99	146.640	-43.560	-13	-30.56
293.790	-48.950	-13	-35.95	**221.430**	**-35.530**	**-13**	**-22.53**
320.300	-44.220	-13	-31.22	308.400	-45.790	-13	-32.79
1000.000	-53.860	-13	-40.86	1674.000	-44.970	-13	-31.97
1034.000	-54.370	-13	-41.37	2508.000	-46.190	-13	-33.19
1674.000	-47.450	-13	-34.45	4804.000	-47.120	-13	-34.12
1858.000	-58.640	-13	-45.64				
2508.000	-45.840	-13	-32.84				
4804.000	-46.750	-13	-33.75				
5104.000	-52.740	-13	-39.74				

4.6.5 Test Data

4.6.5.1 Mode 1

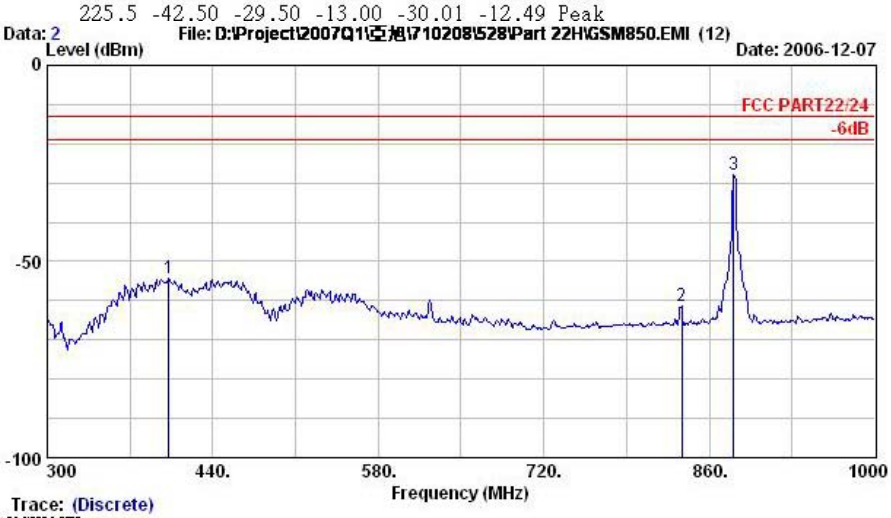
Horizontal Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM850 Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	33.8	-50.11	-37.11	-13.00	-48.04	-2.08	Peak
2 @	146.6	-49.68	-36.68	-13.00	-36.90	-12.78	Peak
3 @	225.5	-42.50	-29.50	-13.00	-30.01	-12.49	Peak



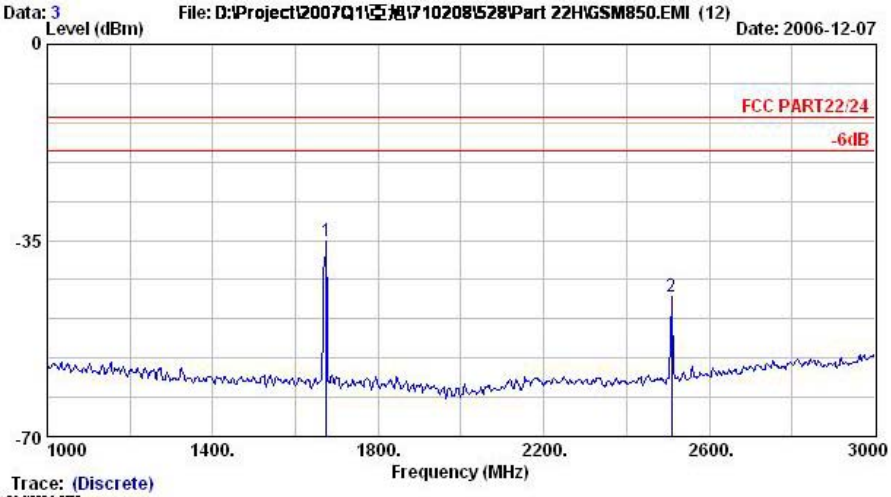
Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM850 Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	402.9	-54.41	-41.41	-13.00	-47.95	-6.46	Peak
2 @	836.9	-61.42			-60.08	-1.33	Peak
3 @	880.3	-27.95			-27.03	-0.91	Peak

Remark:

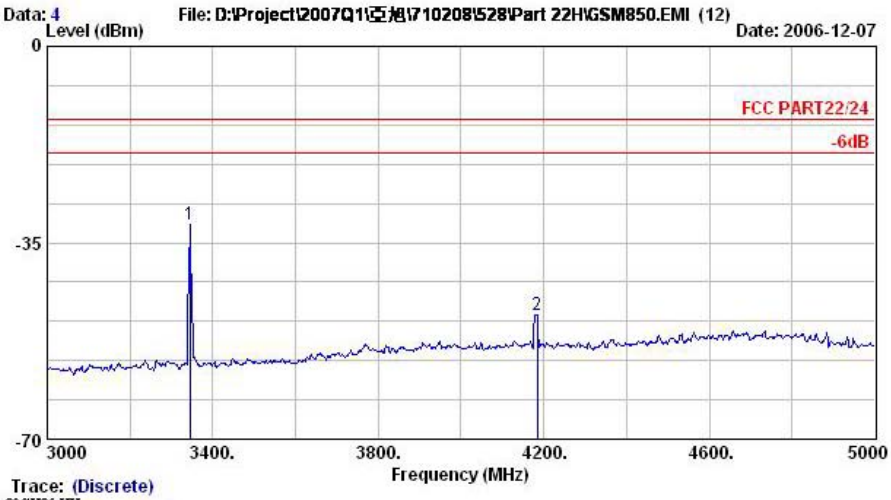
1. #2: MS Signal
2. #3: BS Signal



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM850 Link Mode;Ch189+Adaptor
Plane : E2

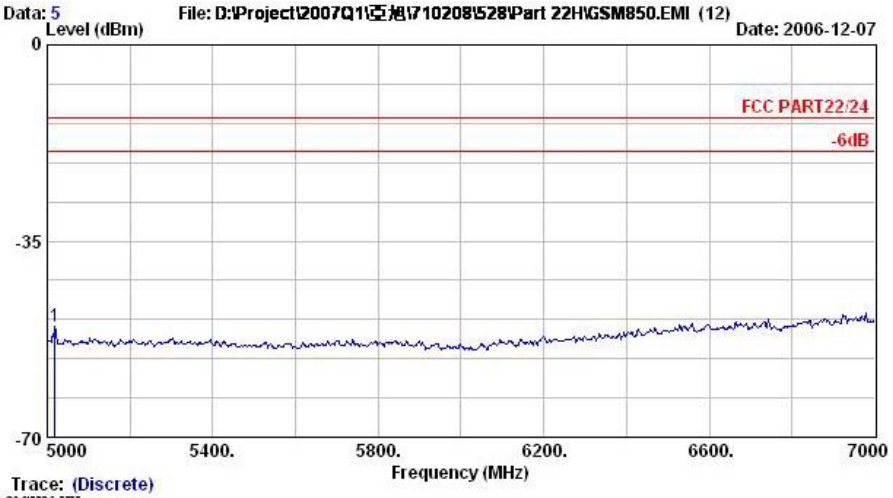
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1674.0	-35.06	-22.06	-13.00	-35.28	0.22	Peak
2 @	2508.0	-45.08	-32.08	-13.00	-46.28	1.20	Peak



Trace: (Discrete)

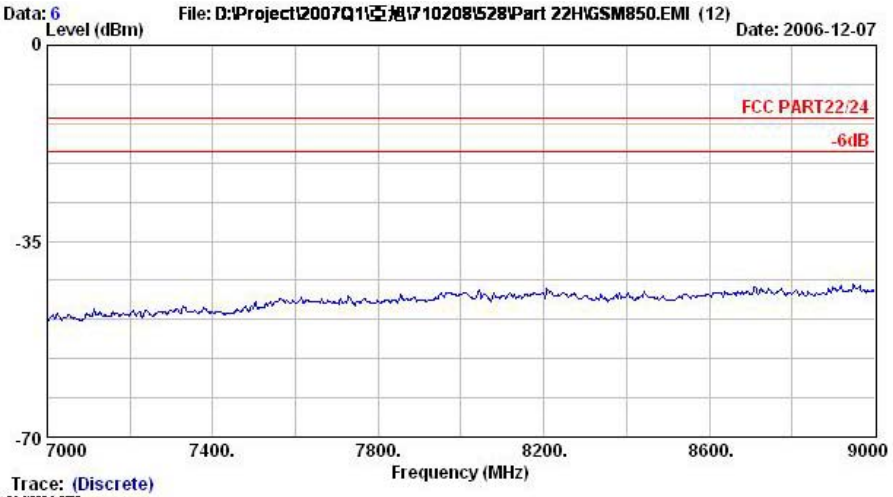
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM850 Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	3344.0	-31.64	-18.64	-13.00	-37.04	5.41	Peak
2 @	4184.0	-47.88	-34.88	-13.00	-57.67	9.79	Peak



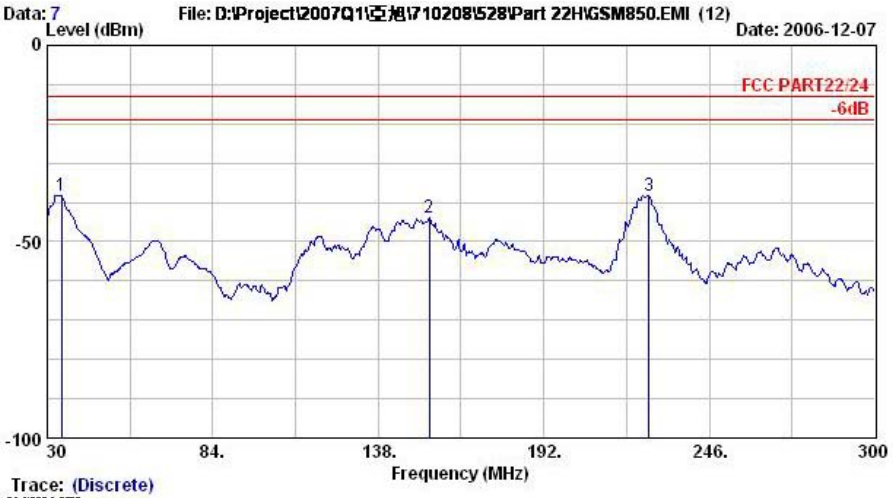
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM850 Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	5018.0	-50.10	-37.10	-13.00	-60.33	10.24	Peak



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM850 Link Mode;Ch189+Adaptor
Plane : E2

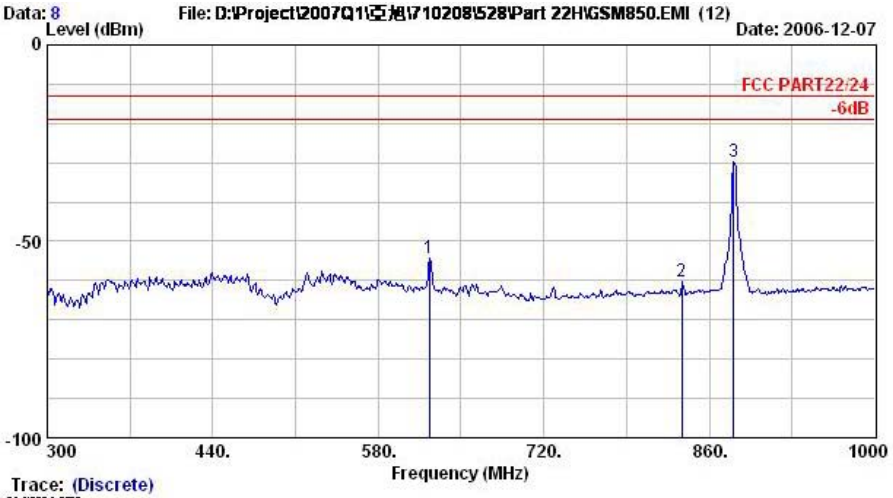
Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM850 Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	34.6	-38.21	-25.21	-13.00	-27.77	-10.44	Peak
2 @	154.7	-43.86	-30.86	-13.00	-35.68	-8.19	Peak
3 @	226.3	-38.23	-25.23	-13.00	-30.19	-8.03	Peak

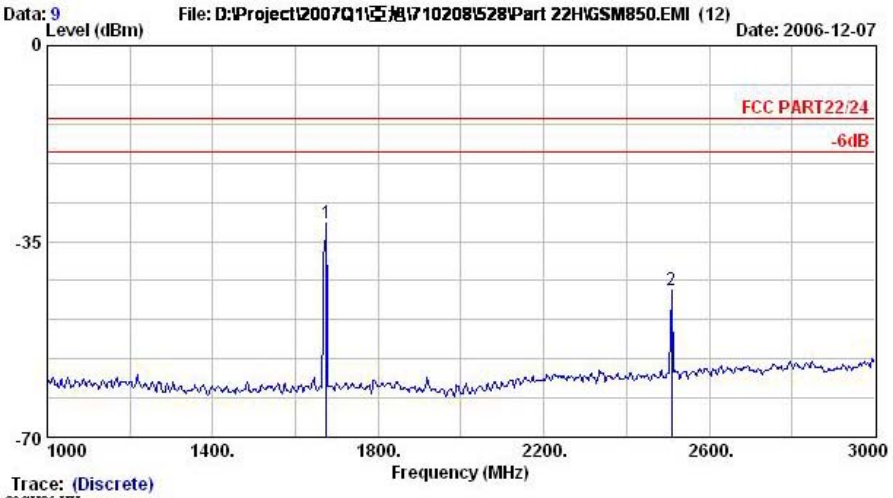


Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM850 Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	623.4	-54.27	-41.27	-13.00	-52.69	-1.58	Peak
2 @	836.9	-60.32			-61.68	1.36	Peak
3 @	880.3	-29.83			-31.54	1.71	Peak

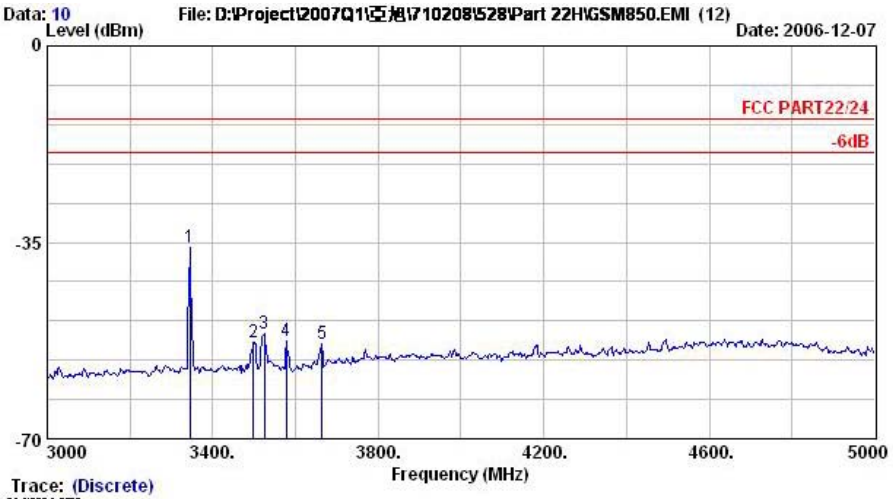
Remark:
1. #2: MS Signal
2. #3: BS Signal



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM850 Link Mode;Ch189+Adaptor
Plane : E2

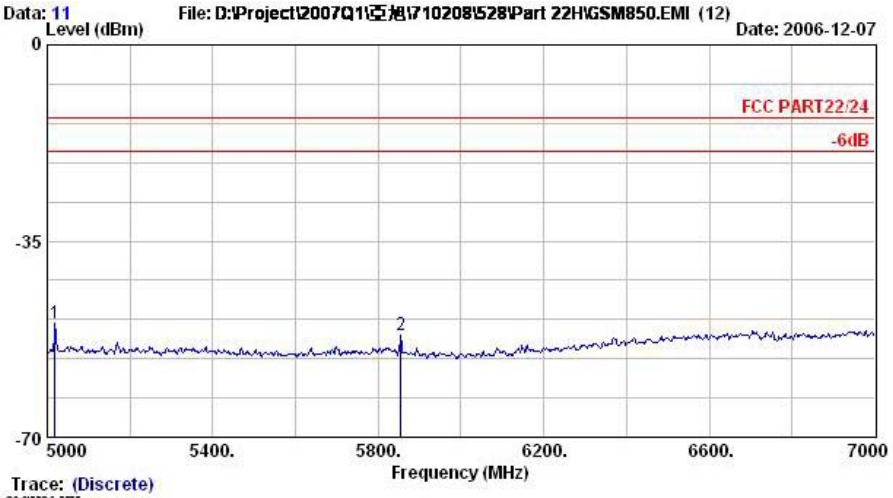
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1674.0	-31.87	-18.87	-13.00	-31.39	-0.48	Peak
2 @	2508.0	-43.67	-30.67	-13.00	-45.94	2.27	Peak



Trace: (Discrete)

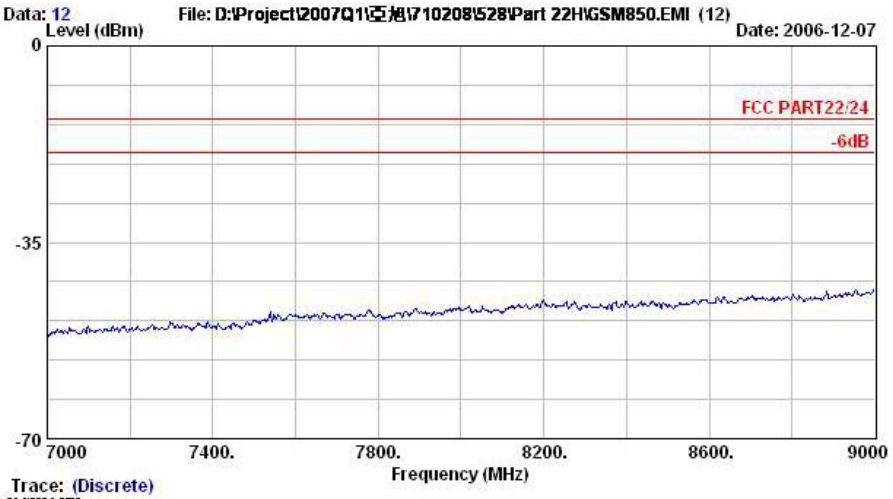
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM850 Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	3344.0	-35.87	-22.87	-13.00	-40.33	4.47	Peak
2 @	3498.0	-52.79	-39.79	-13.00	-57.66	4.87	Peak
3 @	3524.0	-51.22	-38.22	-13.00	-56.15	4.93	Peak
4 @	3578.0	-52.53	-39.53	-13.00	-57.81	5.28	Peak
5 @	3664.0	-53.21	-40.21	-13.00	-58.98	5.77	Peak



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM850 Link Mode;Ch189+Adaptor
Plane : E2

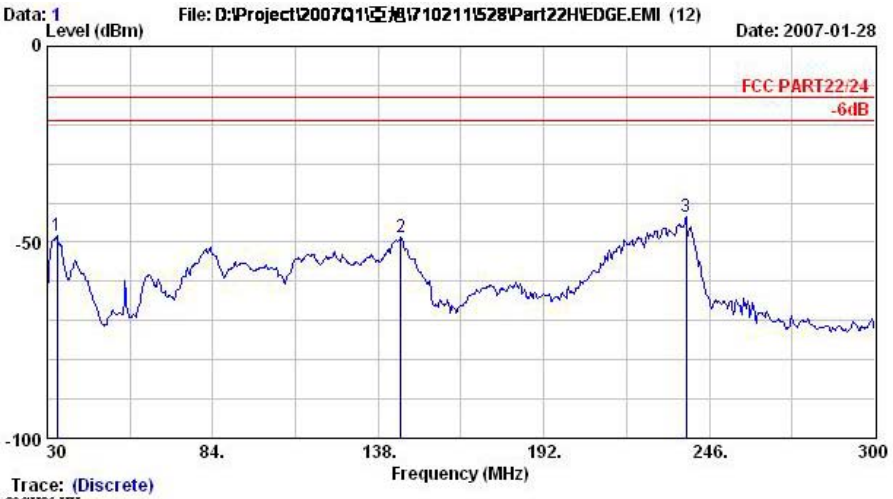
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	5018.0	-49.64	-36.64	-13.00	-58.49	8.85	Peak
2 @	5854.0	-51.66	-38.66	-13.00	-60.47	8.81	Peak



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM850 Link Mode;Ch189+Adaptor
Plane : E2

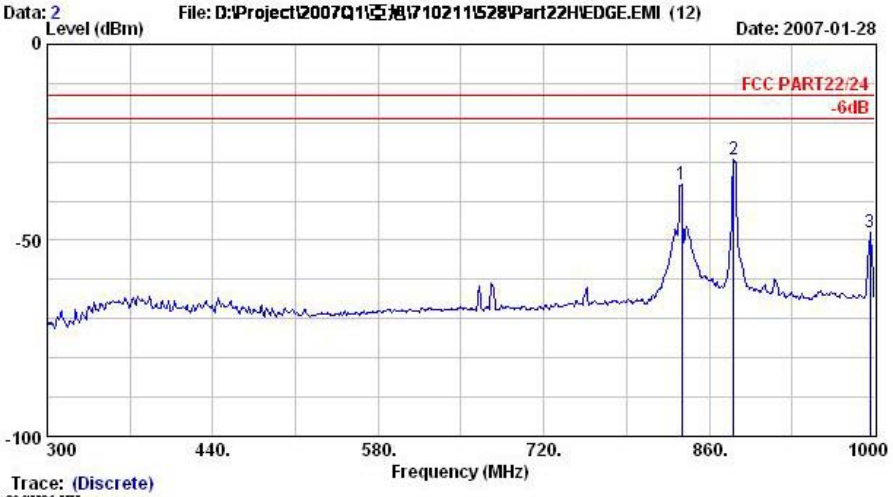
Remark：There is no more obvious emission except the listings above.

4.6.5.2 Mode 2
Horizontal Polarization



Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA with GPRS/EDGE+WLAN11g+BT
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch189+Adaptor
Plane : E2

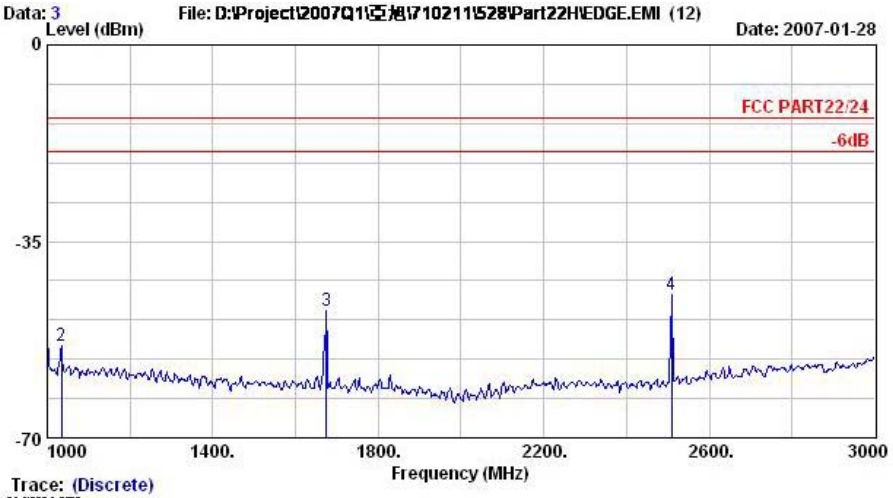
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	33.2	-48.33	-35.33	-13.00	-46.87	-1.47	Peak
2	145.3	-48.75	-35.75	-13.00	-35.98	-12.76	Peak
3 @	238.4	-43.41	-30.41	-13.00	-31.35	-12.05	Peak



Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA with GPRS/EDGE+WLAN11g+BT
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch189+Adaptor
Plane : E2

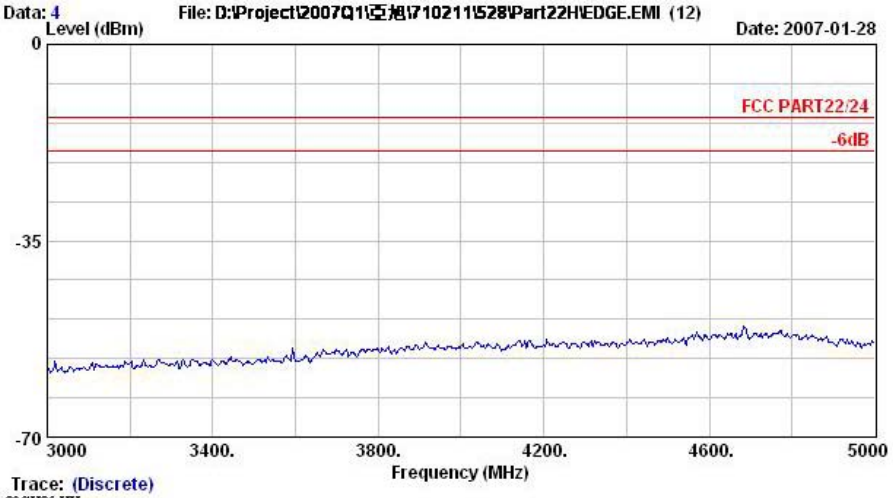
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	836.9	-35.81			-34.48	-1.33	Peak
2 @	880.3	-29.33			-28.42	-0.91	Peak
3	995.8	-47.99	-34.99	-13.00	-48.20	0.20	Peak

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

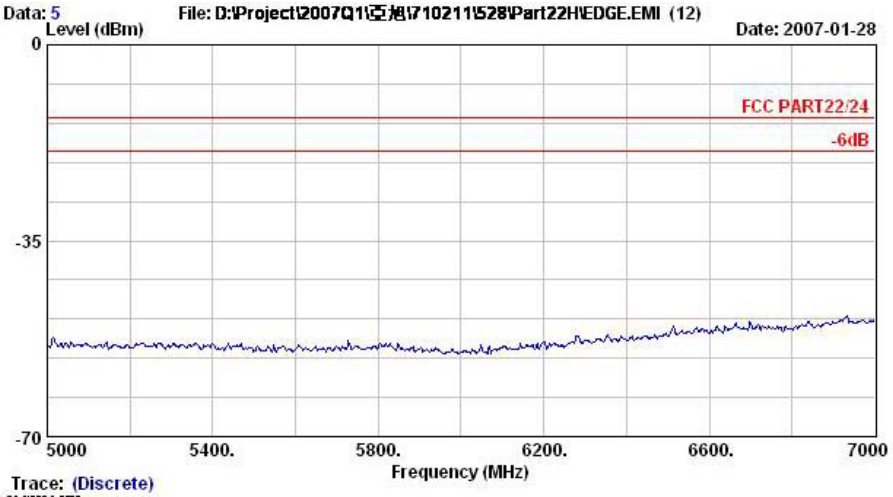


Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA with GPRS/EDGE+WLAN11g+BT
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	1000.0	-52.73	-39.73	-13.00	-54.54	1.80	Peak
2	1034.0	-53.53	-40.53	-13.00	-55.30	1.78	Peak
3	1674.0	-47.24	-34.24	-13.00	-47.46	0.22	Peak
4	2508.0	-44.53	-31.53	-13.00	-45.73	1.20	Peak

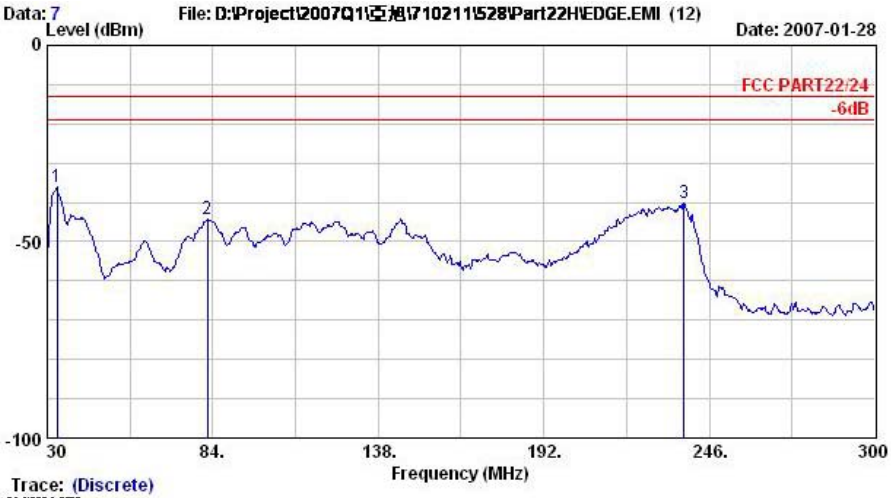


Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA with GPRS/EDGE+WLAN11g+BT
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch189+Adaptor
Plane : E2



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA with GPRS/EDGE+WLAN11g+BT
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch189+Adaptor
Plane : E2

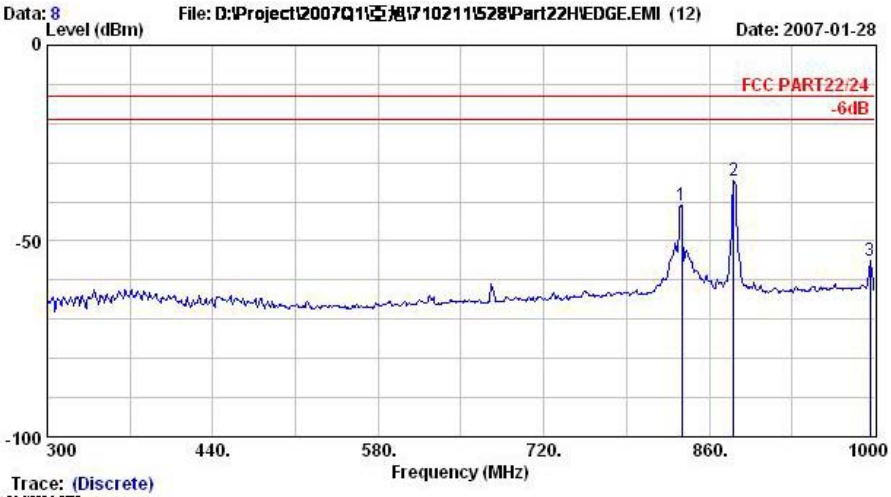
Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : PDA with GPRS/EDGE+WLAN11g+BT
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	33.2	-35.97	-22.97	-13.00	-26.07	-9.89	Peak
2	82.4	-44.35	-31.35	-13.00	-34.15	-10.21	Peak
3 @	237.6	-40.01	-27.01	-13.00	-32.23	-7.78	Peak

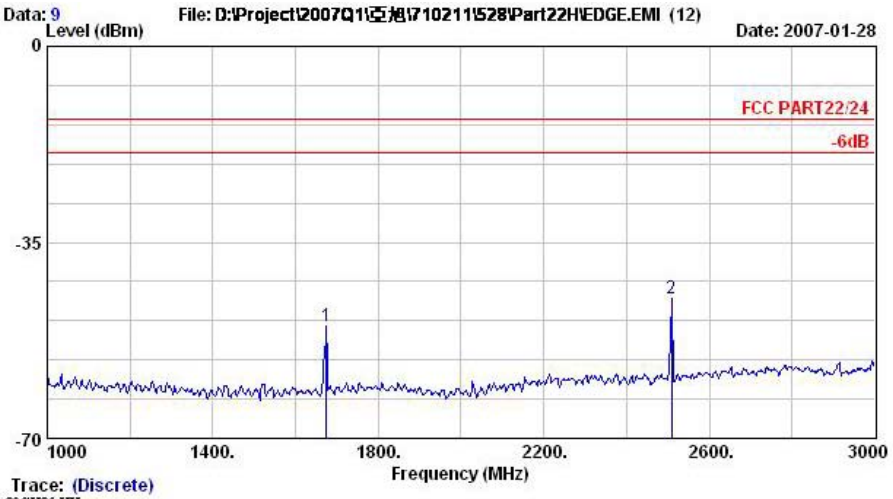


Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : PDA with GPRS/EDGE+WLAN11g+BT
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	836.9	-40.89			-42.25	1.36	Peak
2 @	880.3	-34.56			-36.28	1.71	Peak
3	995.8	-54.92	-41.92	-13.00	-57.55	2.63	Peak

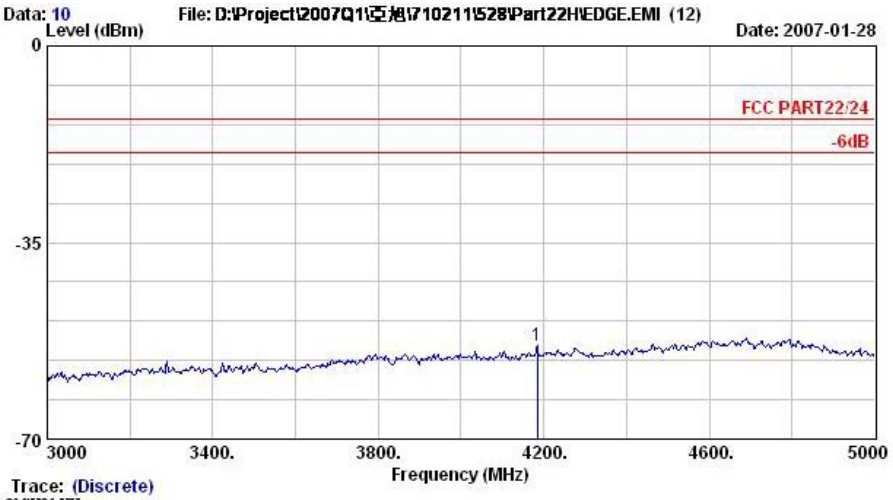
Remark:
1. #1: MS Signal
2. #2: BS Signal



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA with GPRS/EDGE+WLAN11g+BT
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch189+Adaptor
Plane : E2

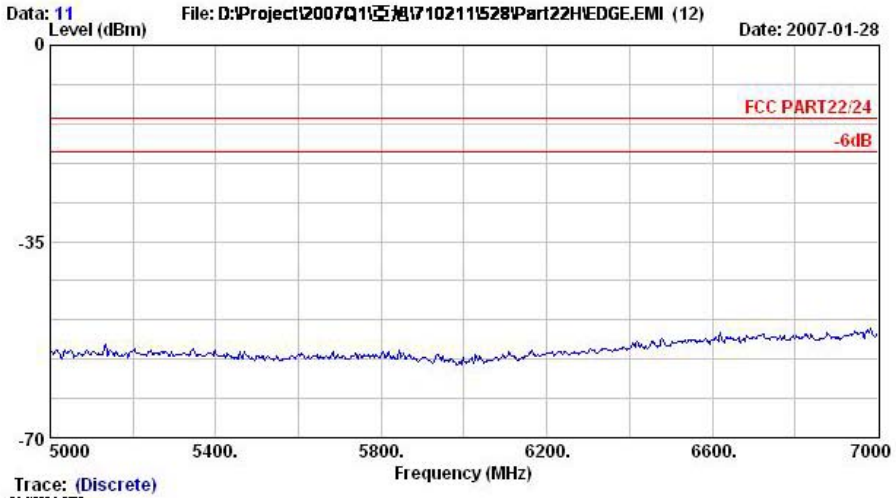
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	1674.0	-49.89	-36.89	-13.00	-49.41	-0.48	Peak
2	2508.0	-44.96	-31.96	-13.00	-47.23	2.27	Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA with GPRS/EDGE+WLAN11g+BT
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch189+Adaptor
Plane : E2

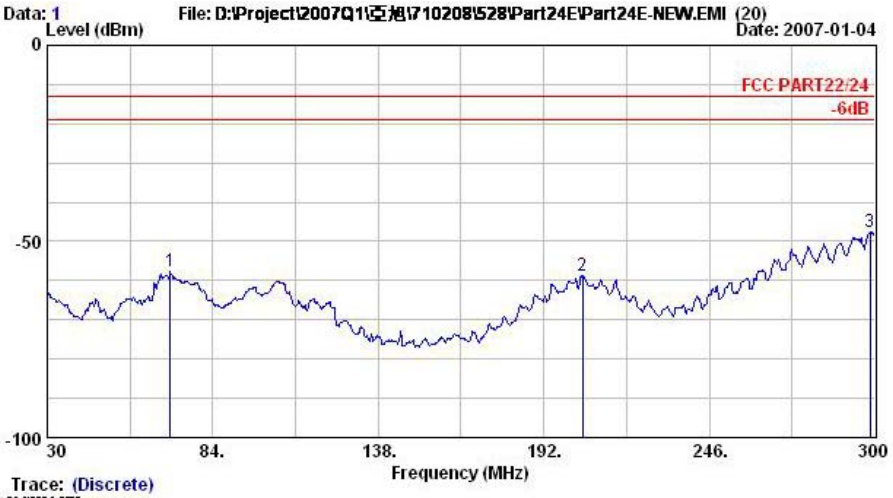
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	4184.0	-53.32	-40.32	-13.00	-61.68	8.36	Peak



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA with GPRS/EDGE+WLAN11g+BT
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch189+Adaptor
Plane : E2

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

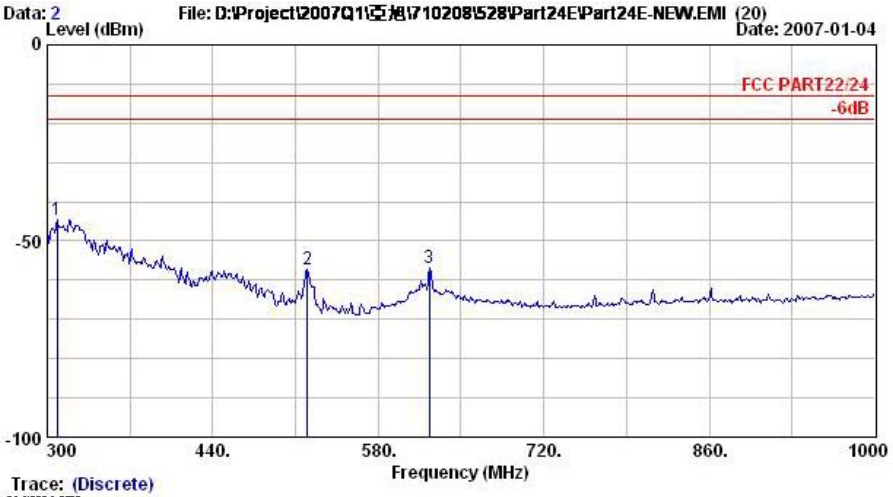
4.6.5.3 Mode 3
Horizontal Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : PCS1900 Link Mode;Ch661+Adaptor
Plane : E2

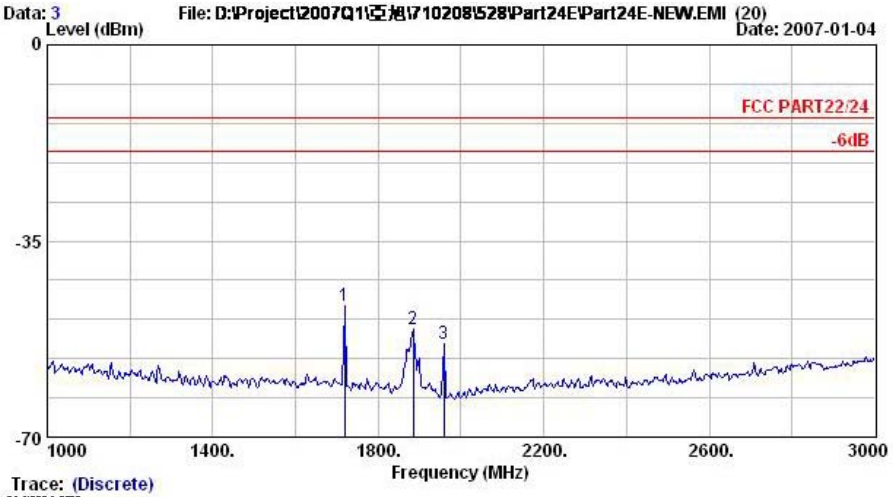
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	70.2	-57.66	-44.66	-13.00	-45.30	-12.36	Peak
2 @	204.7	-58.77	-45.77	-13.00	-45.54	-13.22	Peak
3 @	298.4	-47.58	-34.58	-13.00	-37.60	-9.98	Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : PCS1900 Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	308.4	-44.50	-31.50	-13.00	-34.86	-9.64	Peak
2 @	519.8	-57.36	-44.36	-13.00	-52.51	-4.85	Peak
3 @	623.4	-56.79	-43.79	-13.00	-53.29	-3.50	Peak

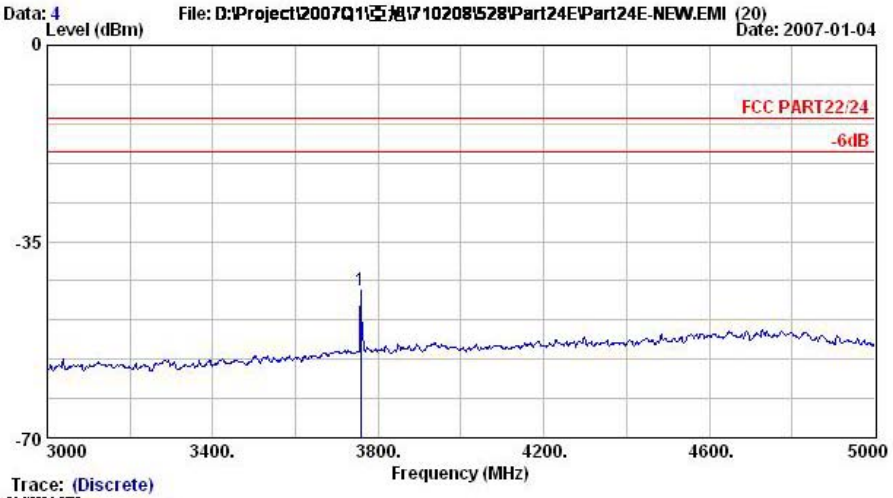


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : PCS1900 Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1718.0	-46.48	-33.48	-13.00	-46.55	0.08	Peak
2 @	1884.0	-50.66			-49.98	-0.68	Peak
3 @	1958.0	-53.46			-52.35	-1.11	Peak

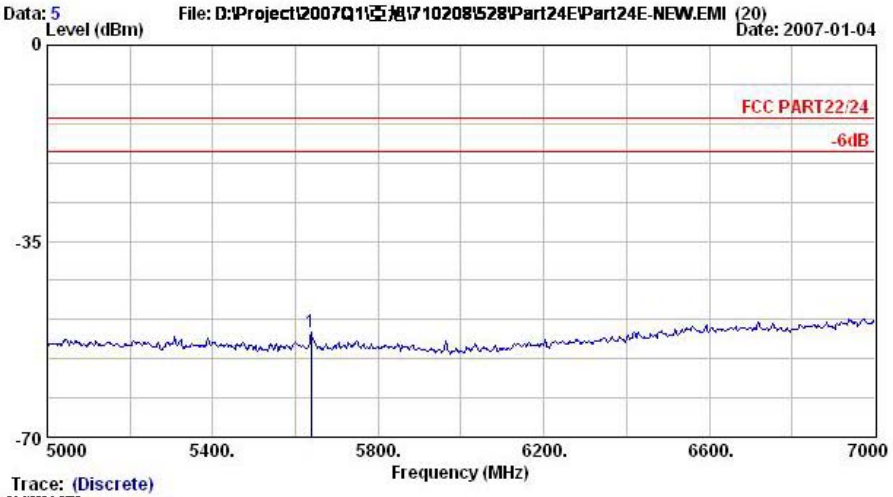
Remark:
1. #2: MS Signal
2. #3: BS Signal



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : PCS1900 Link Mode;Ch661+Adaptor
Plane : E2

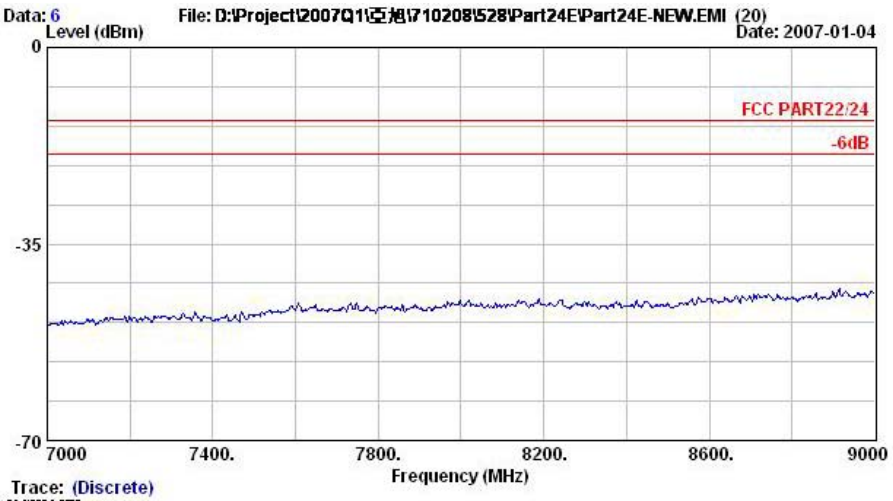
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	3758.0	-43.78	-30.78	-13.00	-51.70	7.92	Peak



Trace: (Discrete)

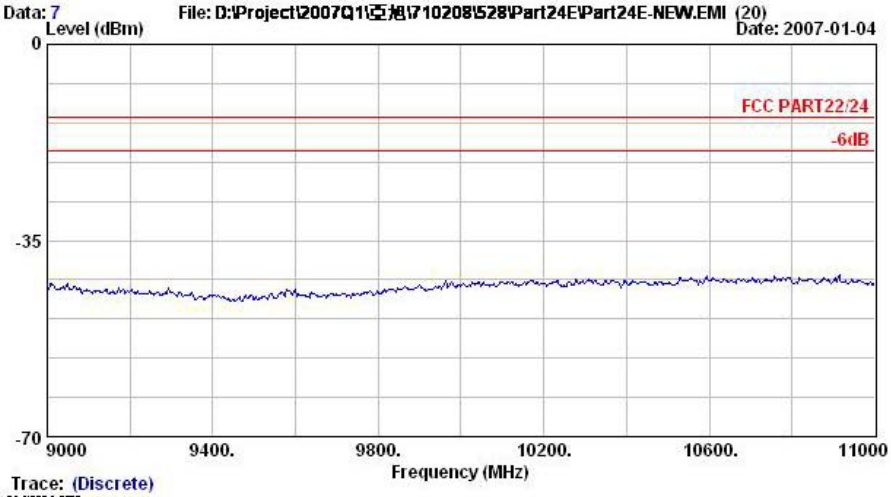
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : PCS1900 Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	5638.0	-51.25	-38.25	-13.00	-61.22	9.97	Peak



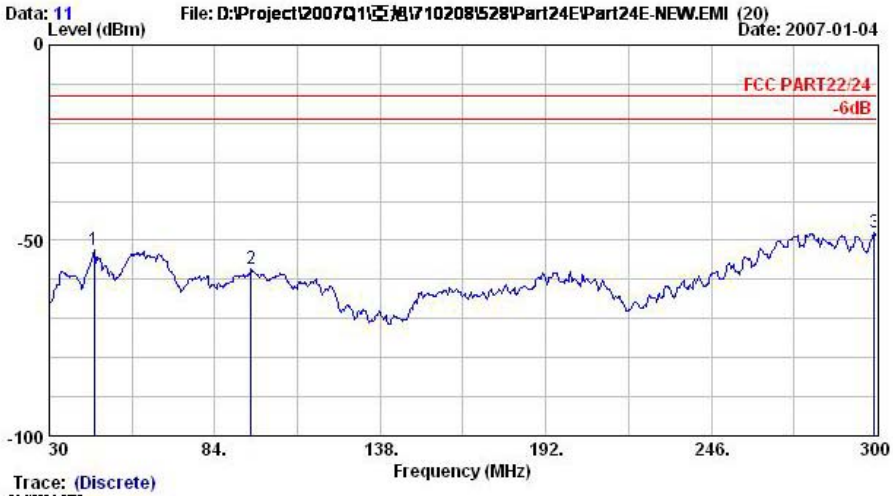
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : PCS1900 Link Mode;Ch661+Adaptor
Plane : E2



Site	: 03CH06-HY
Condition	: HF-SPURIOUS HORIZONTAL
EUT	: PDA
Power	: 120Vac/60Hz
Model	: FG 710211
Memo	: PCS1900 Link Mode;Ch661+Adaptor
Plane	: E2

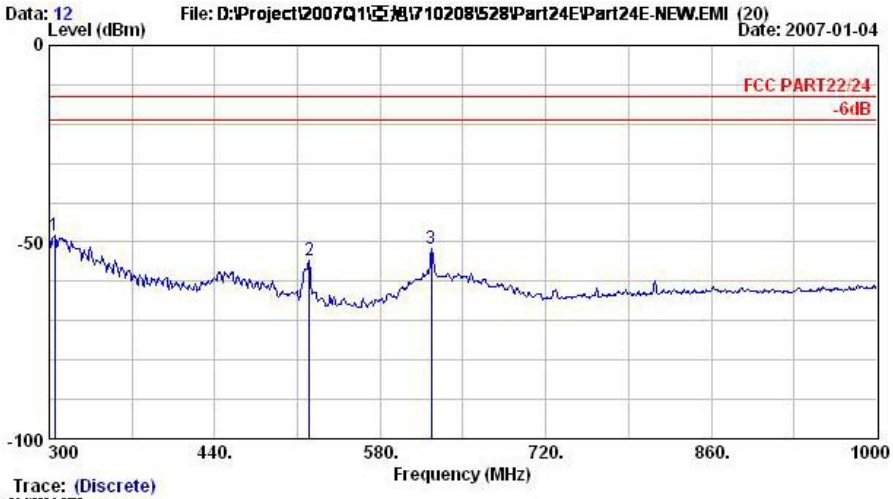
Vertical Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : PCS1900 Link Mode;Ch661+Adaptor
Plane : E2

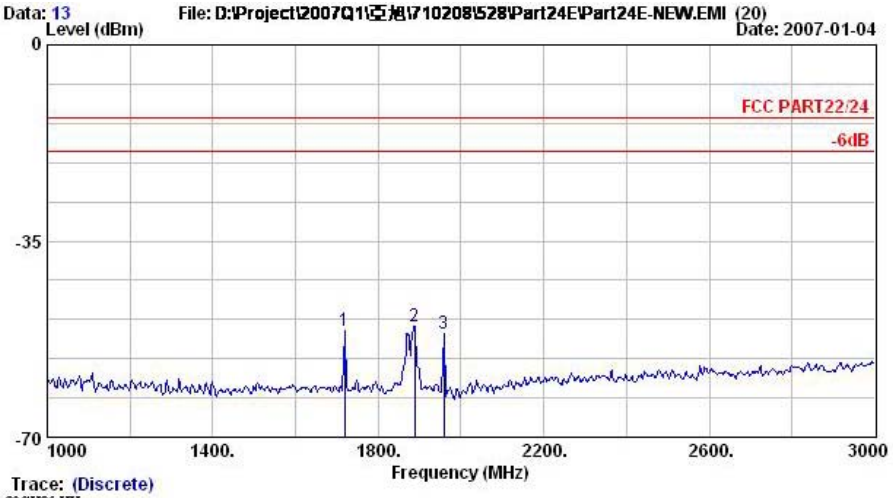
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	44.6	-52.44	-39.44	-13.00	-39.27	-13.18	Peak
2 @	95.9	-57.33	-44.33	-13.00	-49.08	-8.25	Peak
3 @	299.2	-48.07	-35.07	-13.00	-41.61	-6.46	Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : PCS1900 Link Mode;Ch661+Adaptor
Plane : E2

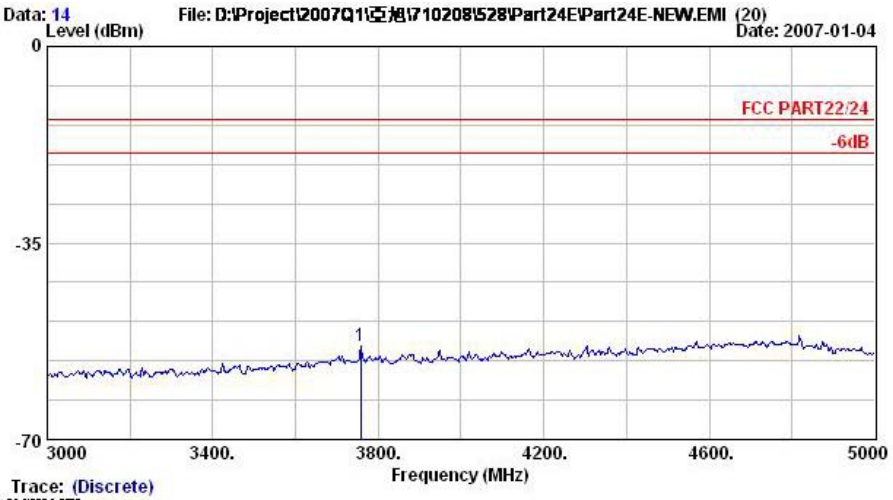
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	304.9	-48.43	-35.43	-13.00	-42.08	-6.36	Peak
2 @	519.8	-54.70	-41.70	-13.00	-51.81	-2.89	Peak
3 @	623.4	-51.81	-38.81	-13.00	-50.23	-1.58	Peak



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : PCS1900 Link Mode;Ch661+Adaptor
Plane : E2

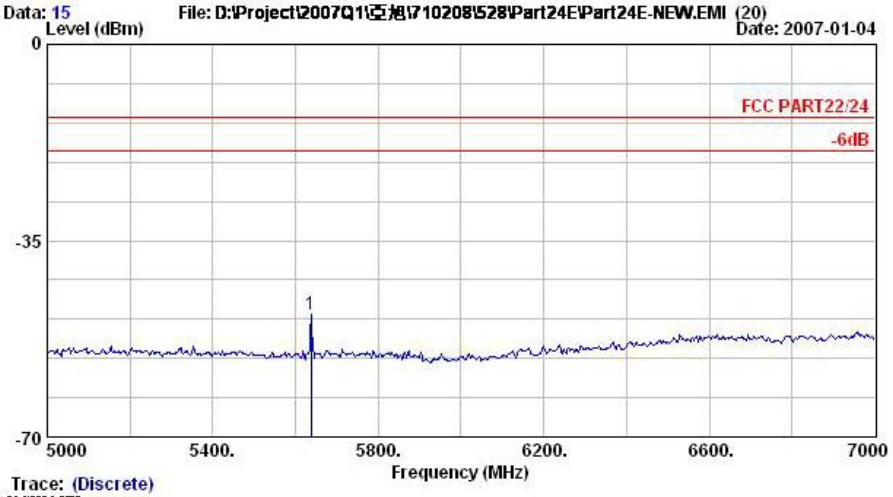
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1718.0	-51.08	-38.08	-13.00	-50.65	-0.42	Peak
2 @	1888.0	-50.29			-49.79	-0.50	Peak
3 @	1958.0	-51.41			-50.81	-0.60	Peak

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



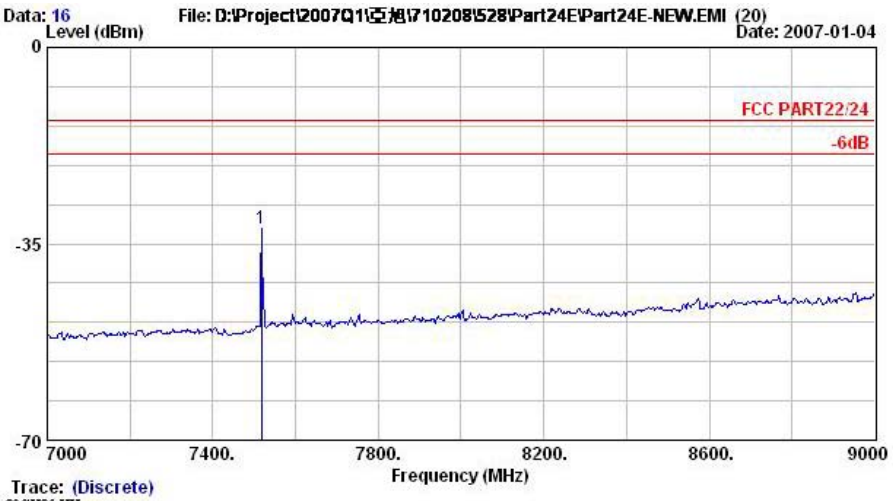
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : PCS1900 Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	3758.0	-53.37	-40.37	-13.00	-60.01	6.64	Peak



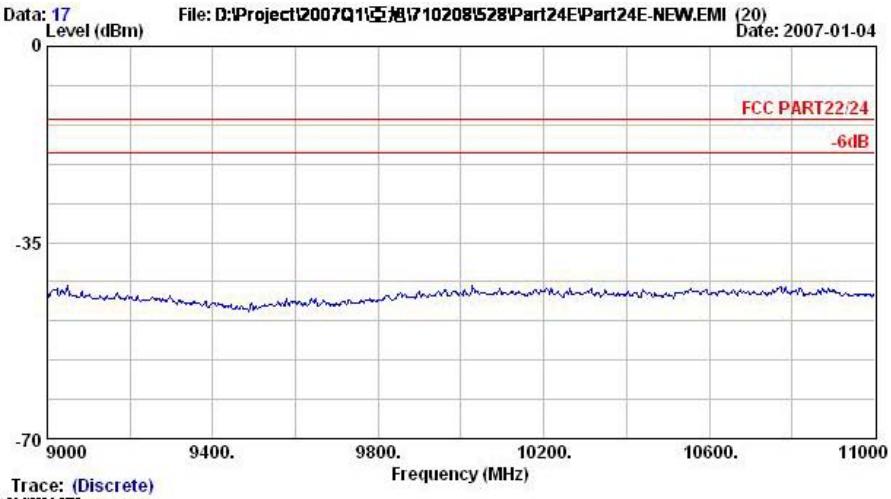
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : PCS1900 Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	5638.0	-48.16	-35.16	-13.00	-56.81	8.65	Peak



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : PCS1900 Link Mode;Ch661+Adaptor
Plane : E2

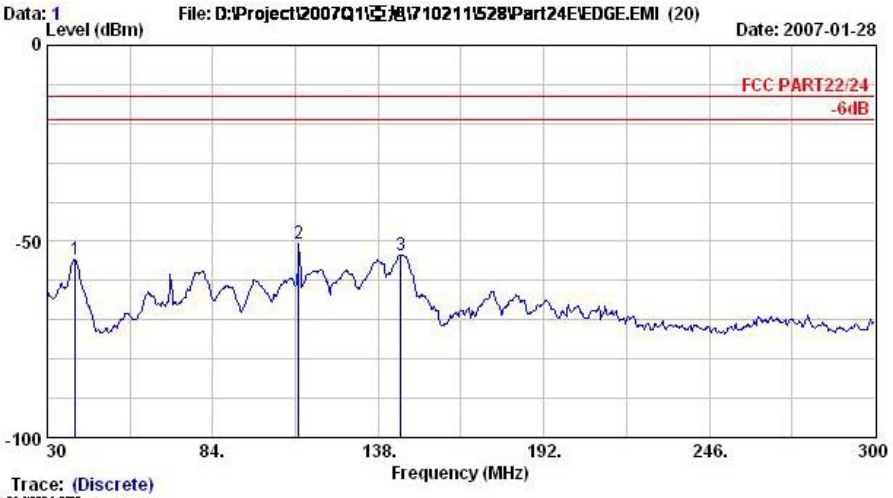
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	7518.0	-32.28	-19.28	-13.00	-45.65	13.37	Peak



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : PCS1900 Link Mode;Ch661+Adaptor
Plane : E2

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

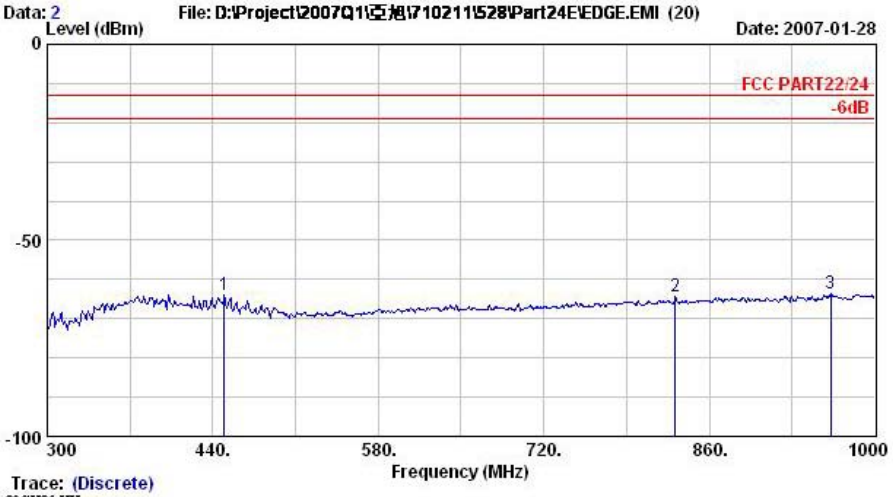
4.6.5.4 Mode 4
Horizontal Polarization



Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL

Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

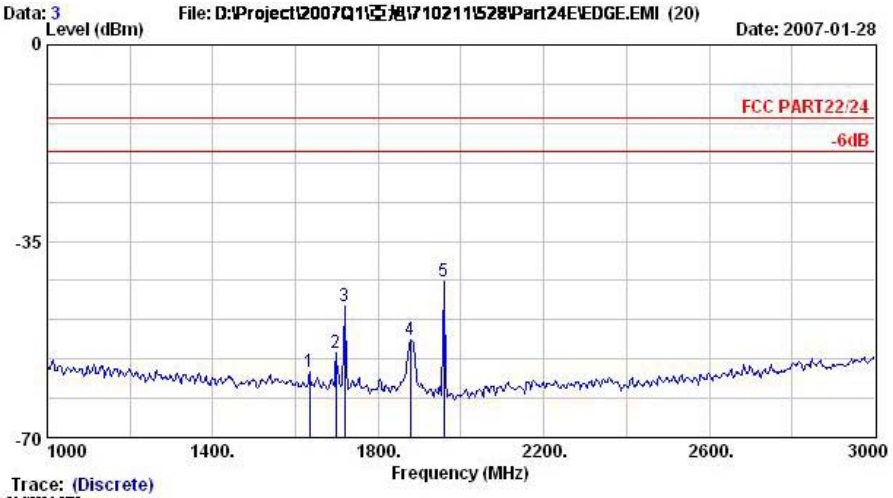
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	39.2	-54.51	-41.51	-13.00	-49.39	-5.12	Peak
2	112.1	-50.65	-37.65	-13.00	-38.26	-12.39	Peak
3	145.3	-53.41	-40.41	-13.00	-40.65	-12.76	Peak



Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL

Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	449.8	-63.83	-50.83	-13.00	-58.02	-5.81	Peak
2	831.3	-64.23	-51.23	-13.00	-62.84	-1.39	Peak
3	962.9	-63.65	-50.65	-13.00	-63.54	-0.12	Peak



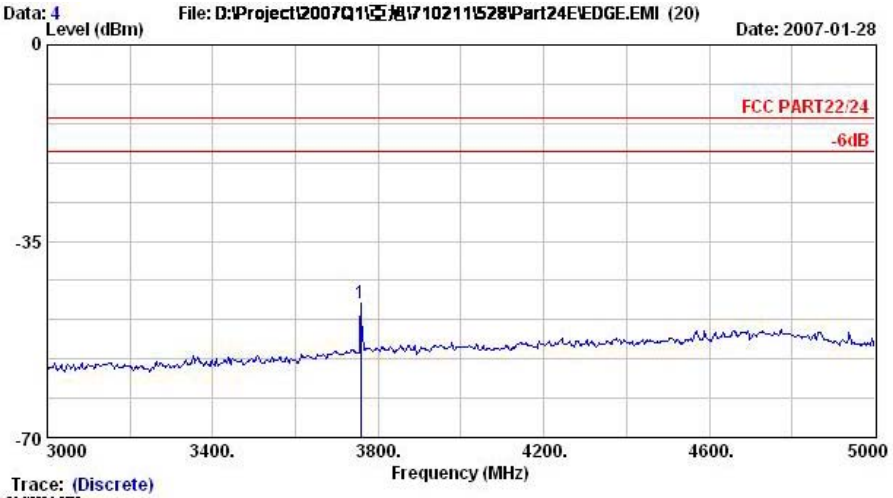
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL

Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	1634.0	-58.38	-45.38	-13.00	-58.69	0.31	Peak
2	1698.0	-54.98	-41.98	-13.00	-55.12	0.13	Peak
3	1718.0	-46.50	-33.50	-13.00	-46.58	0.08	Peak
4	1878.0	-52.52			-52.01	-0.51	Peak
5 @	1958.0	-42.08			-40.97	-1.11	Peak

Remark:
1. #4: MS Signal
2. #5: BS Signal

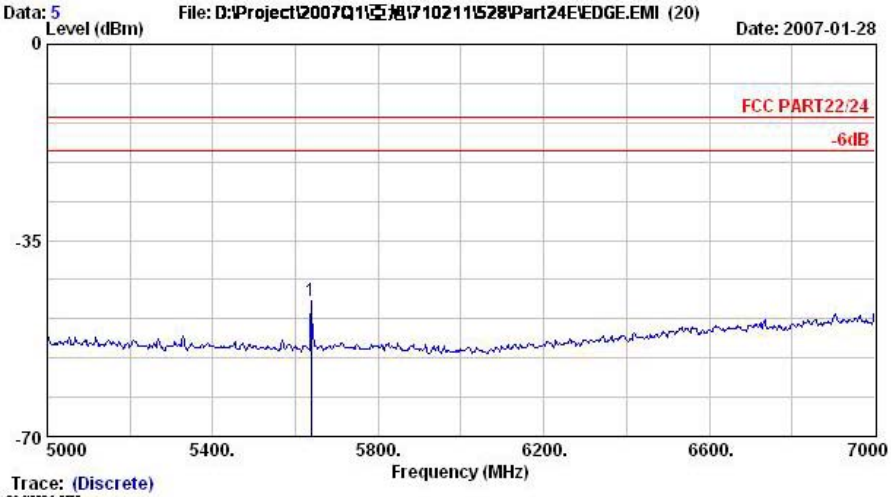


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL

Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	3758.0	-46.02	-33.02	-13.00	-53.94	7.92	Peak

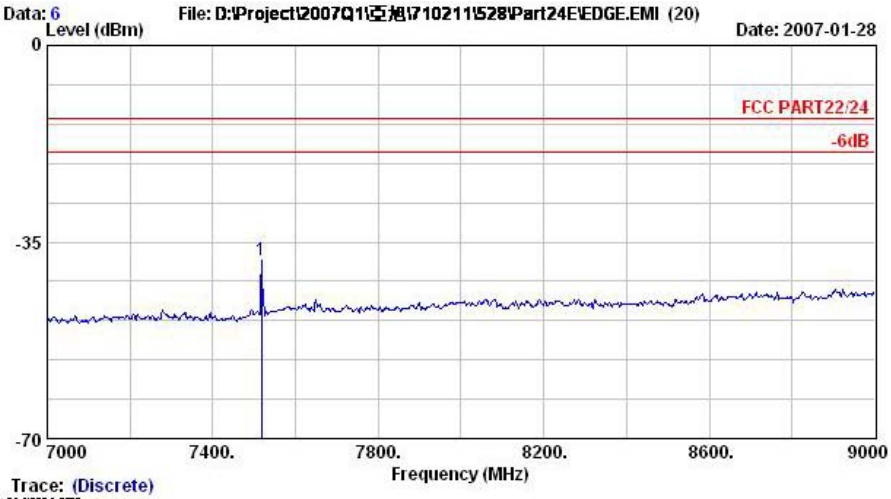


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL

Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	5638.0	-45.67	-32.67	-13.00	-55.64	9.97	Peak

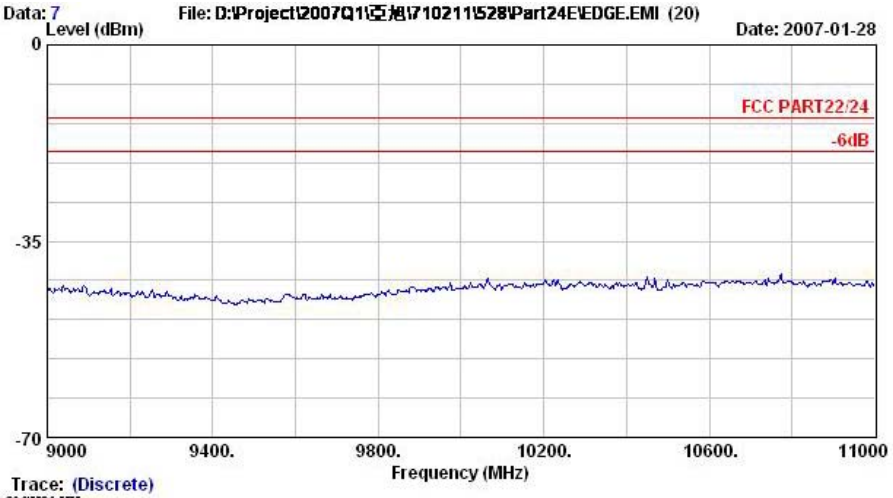


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL

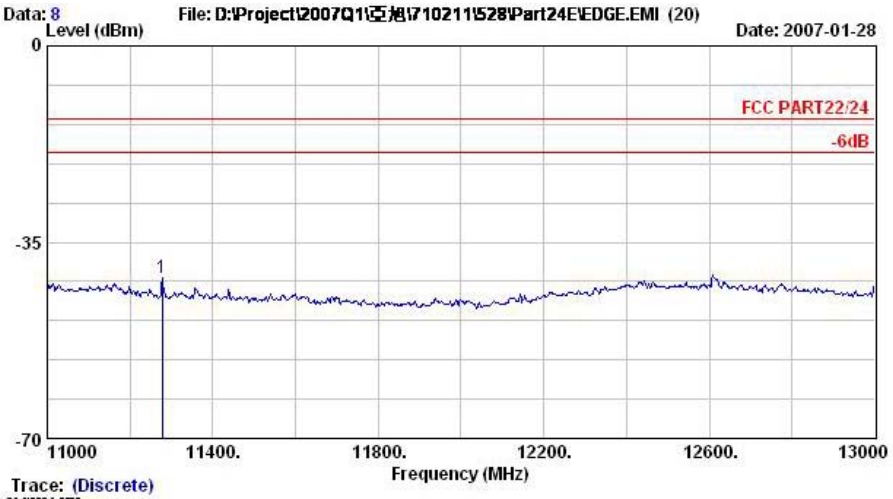
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	7518.0	-38.37	-25.37	-13.00	-54.17	15.80	Peak



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL

Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

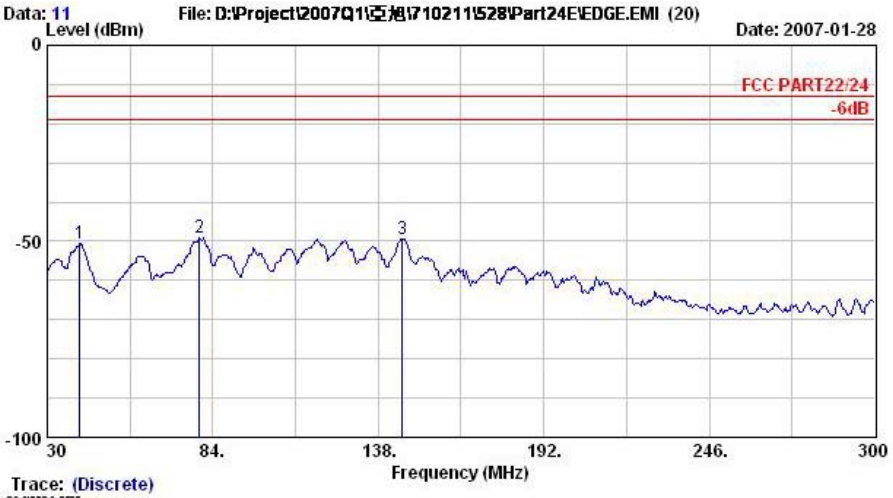


Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL

Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	11278.0	-41.43	-28.43	-13.00	-61.72	20.30	Peak

Vertical Polarization

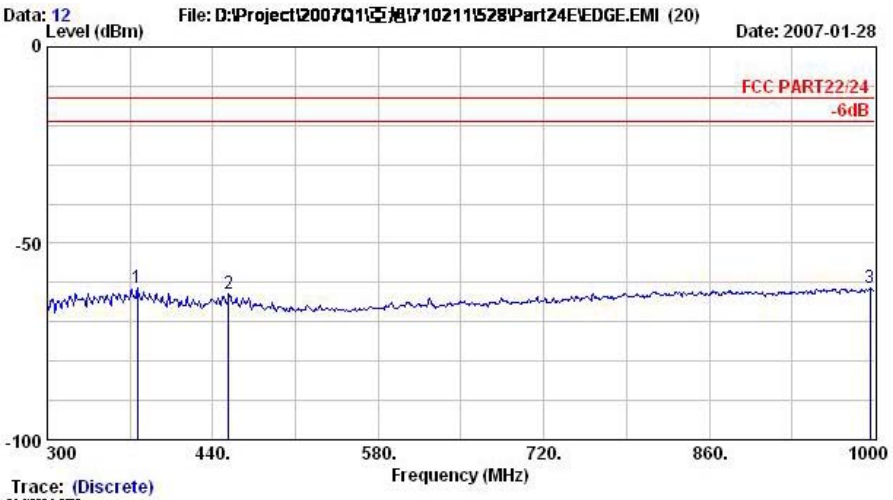


Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL

Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	40.5	-50.59	-37.59	-13.00	-38.51	-12.08	Peak
2	79.7	-49.12	-36.12	-13.00	-38.49	-10.63	Peak
3	145.8	-49.39	-36.39	-13.00	-41.29	-8.10	Peak

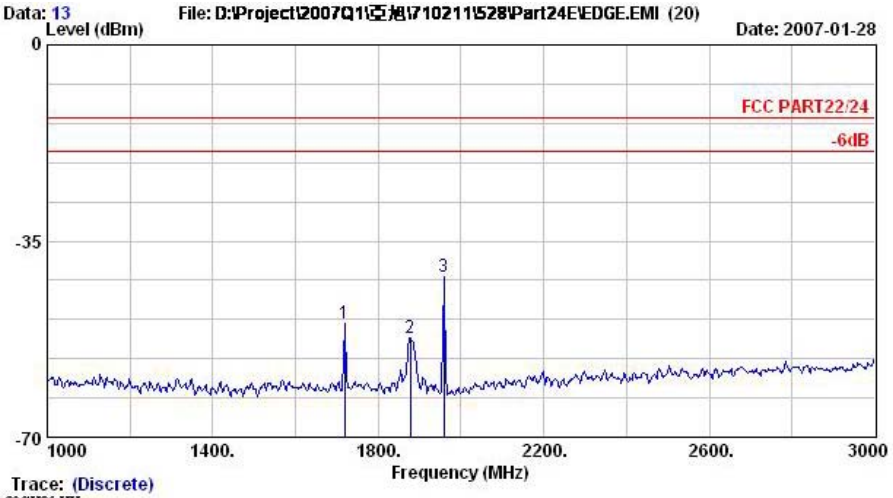


Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL

Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	376.3	-61.22	-48.22	-13.00	-56.40	-4.83	Peak
2	453.3	-62.86	-49.86	-13.00	-59.16	-3.69	Peak
3	995.8	-61.28	-48.28	-13.00	-63.91	2.63	Peak



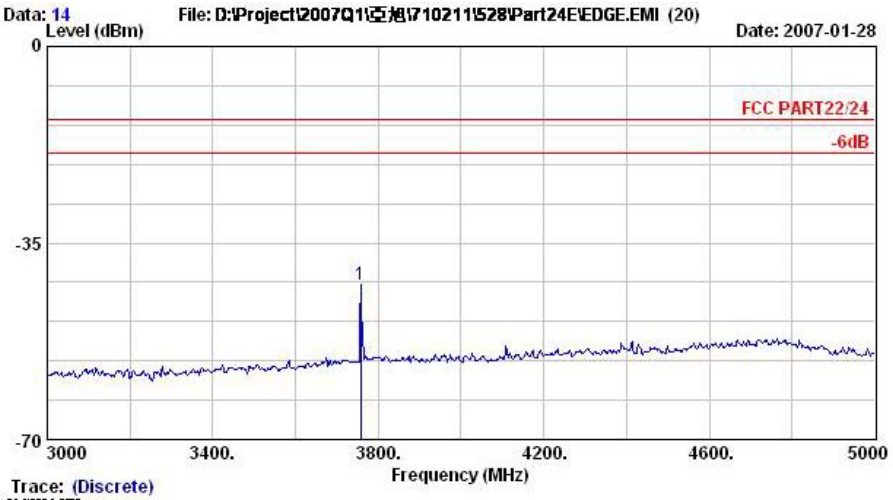
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL

Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	1718.0	-49.64	-36.64	-13.00	-49.21	-0.42	Peak
2	1878.0	-52.23			-51.83	-0.40	Peak
3 @	1958.0	-41.47			-40.88	-0.60	Peak

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

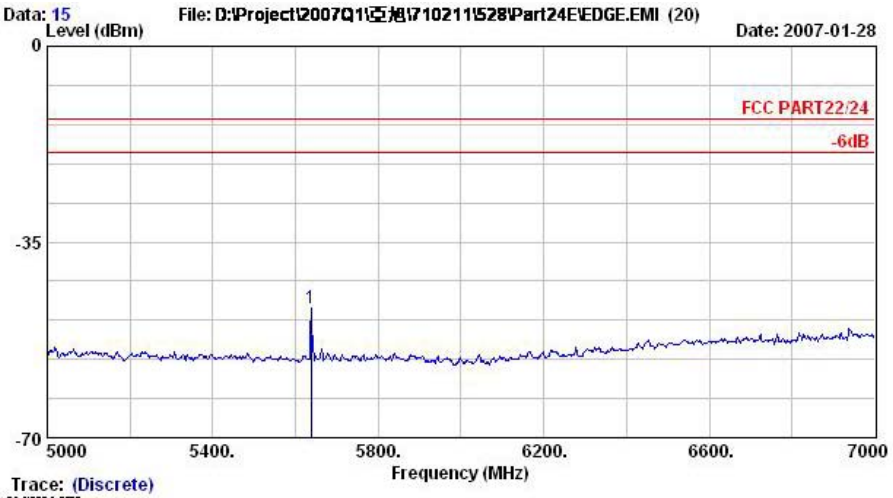


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL

Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

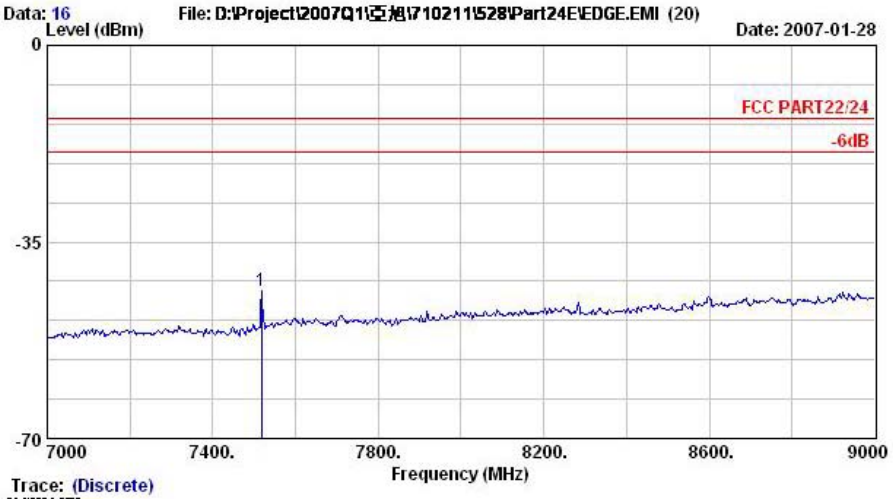
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	3758.0	-42.39	-29.39	-13.00	-49.03	6.64	Peak



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL

Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

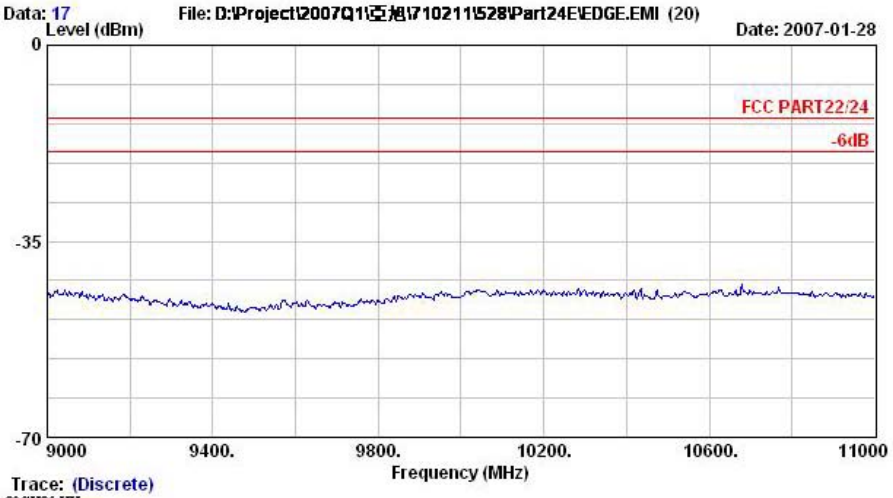
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	5638.0	-46.76	-33.76	-13.00	-55.42	8.65	Peak



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL

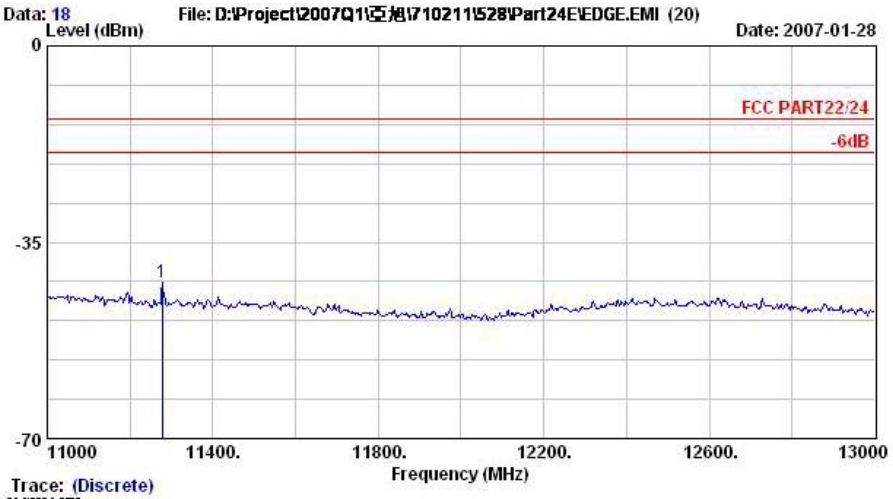
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	7518.0	-43.64	-30.64	-13.00	-57.00	13.37	Peak



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL

Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2



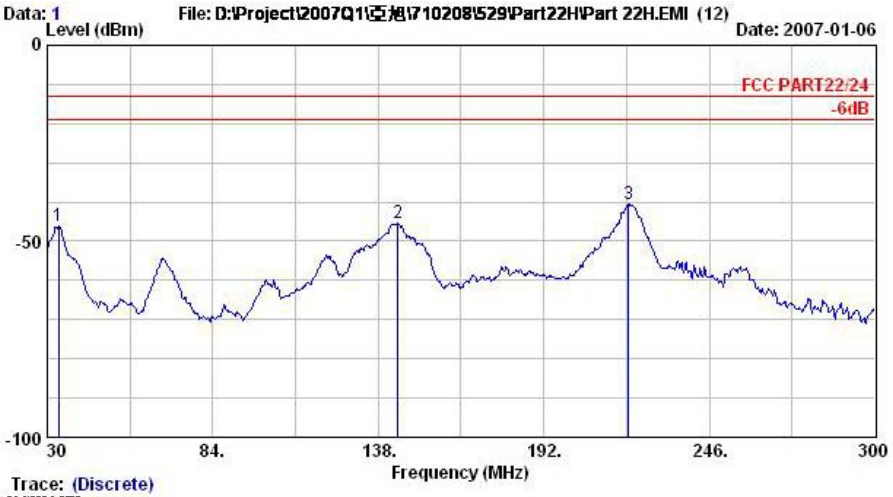
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL

Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch661+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	11278.0	-42.25	-29.25	-13.00	-61.13	18.87	Peak

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

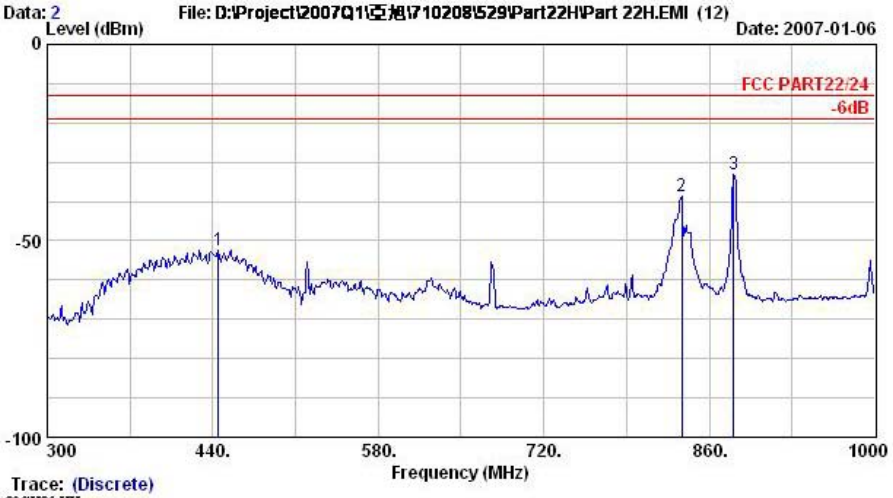
4.6.5.5 Mode 5
Horizontal Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM 850 Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	33.8	-46.26	-33.26	-13.00	-44.18	-2.08	Peak
2	144.5	-45.38	-32.38	-13.00	-32.63	-12.75	Peak
3 @	219.5	-40.47	-27.47	-13.00	-27.75	-12.72	Peak

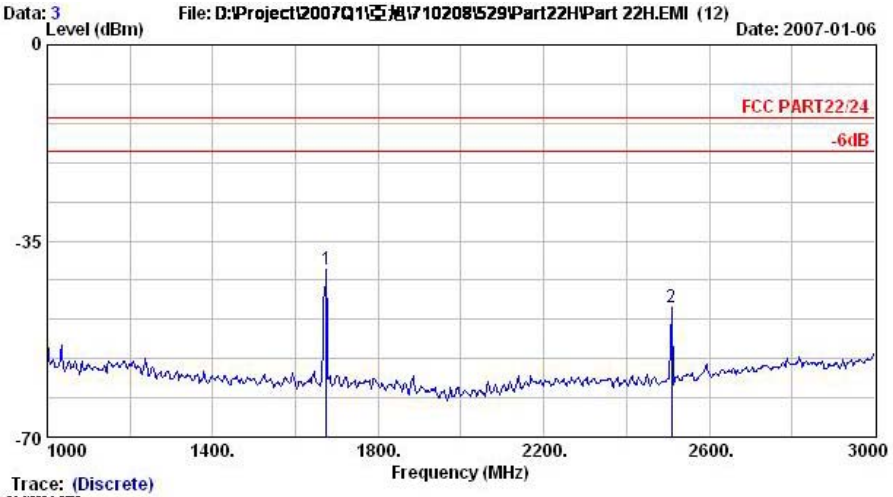


Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM 850 Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	444.9	-52.28	-39.28	-13.00	-46.41	-5.87	Peak
2 @	836.9	-38.77			-37.44	-1.33	Peak
3 @	880.3	-32.91			-32.00	-0.91	Peak

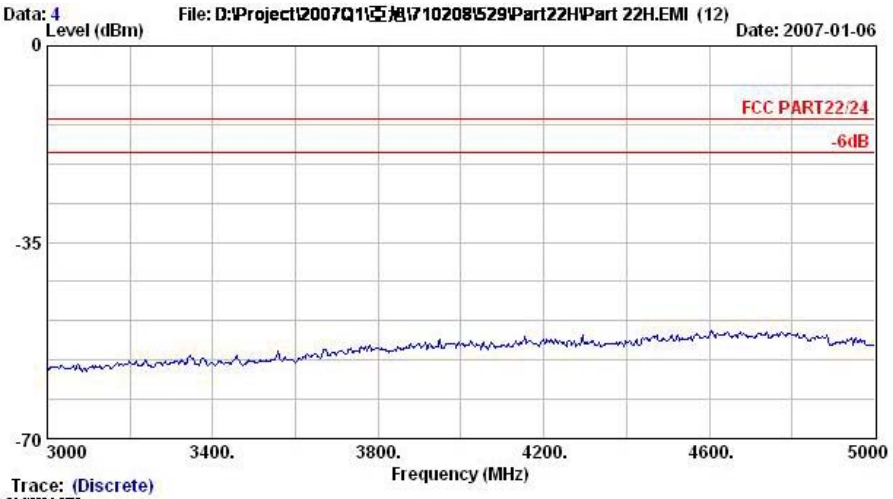
Remark:
1. #2: MS Signal
2. #3: BS Signal



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM 850 Link Mode;Ch189+Adaptor
Plane : E2

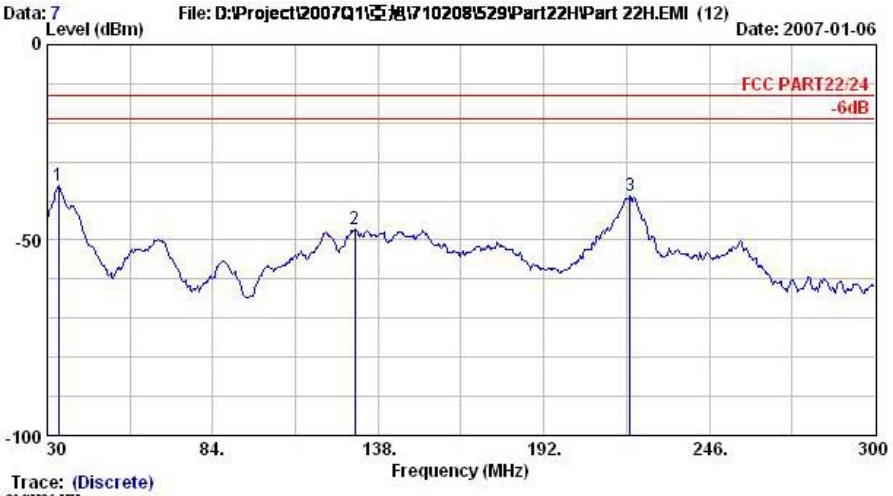
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1674.0	-40.15	-27.15	-13.00	-40.37	0.22	Peak
2	2508.0	-46.81	-33.81	-13.00	-48.01	1.20	Peak



Trace: (Discrete)

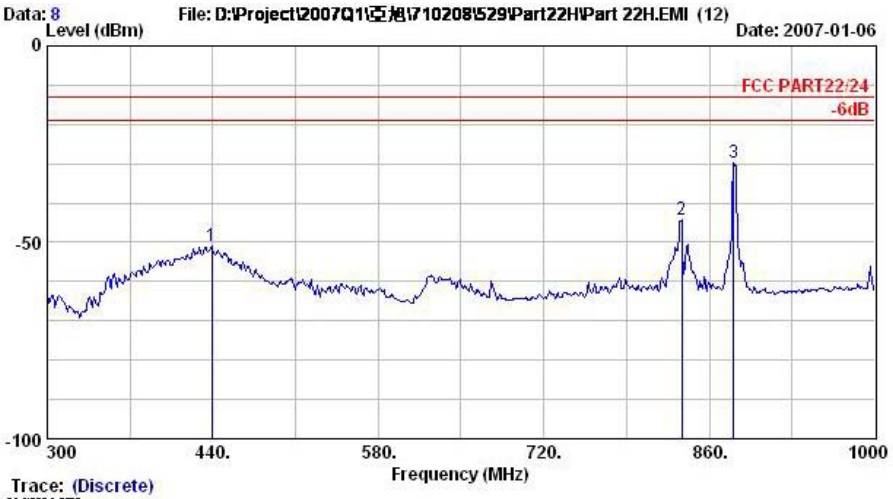
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM 850 Link Mode;Ch189+Adaptor
Plane : E2

Vertical Polarization



Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM 850 Link Mode;Ch189+Adaptor
Plane : E2

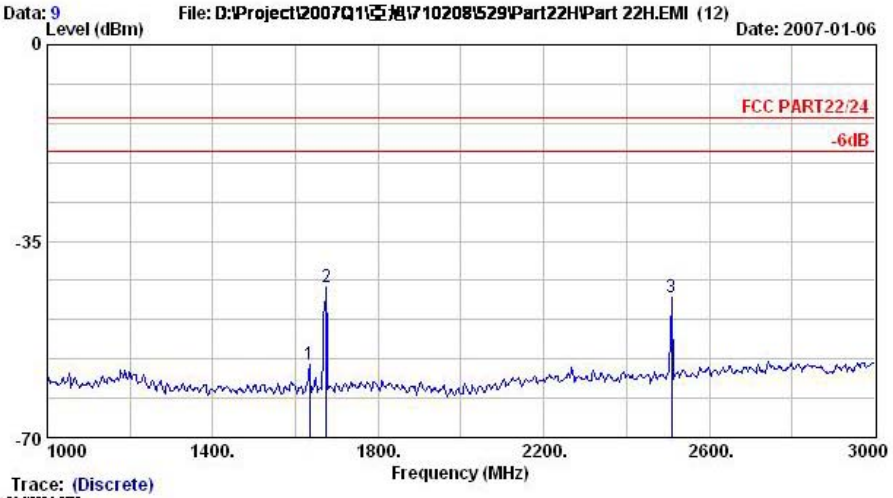
	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	33.8	-36.17	-23.17	-13.00	-26.01	-10.17	Peak
2	130.4	-47.23	-34.23	-13.00	-39.26	-7.97	Peak
3 @	220.1	-38.62	-25.62	-13.00	-30.47	-8.16	Peak



Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM 850 Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	439.3	-51.09	-38.09	-13.00	-47.24	-3.85	Peak
2	836.9	-44.41			-45.77	1.36	Peak
3 @	880.3	-29.74			-31.45	1.71	Peak

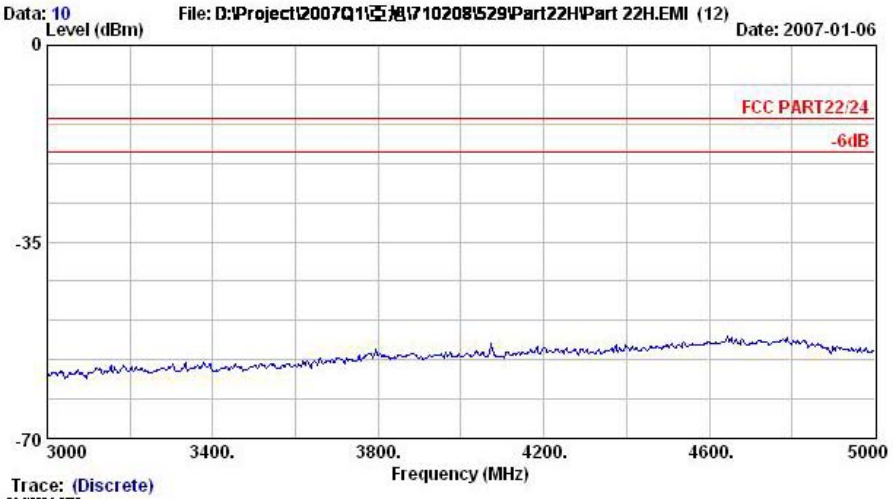
Remark:
1. #2: MS Signal
2. #3: BS Signal



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM 850 Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	1634.0	-56.89	-43.89	-13.00	-56.43	-0.46	Peak
2	1674.0	-43.10	-30.10	-13.00	-42.62	-0.48	Peak
3	2508.0	-44.96	-31.96	-13.00	-47.23	2.27	Peak

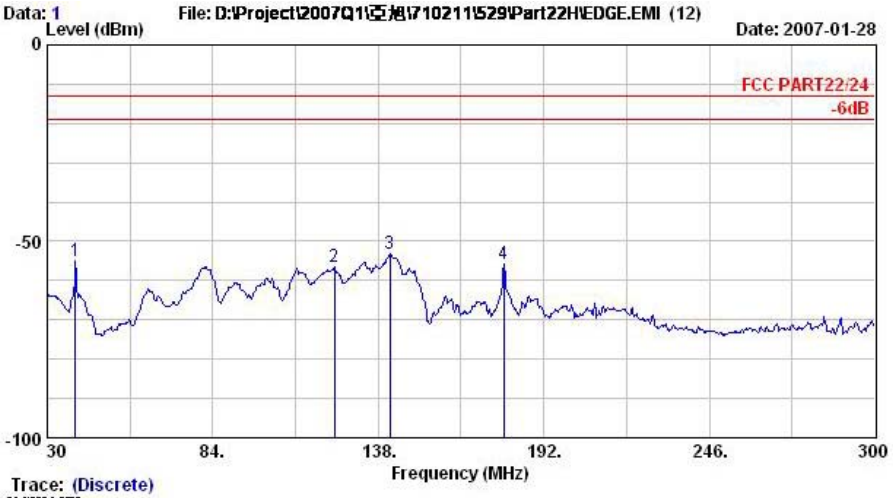


Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : PDA
Power : 120Vac/60Hz
Model : FG 710211
Memo : GSM 850 Link Mode;Ch189+Adaptor
Plane : E2

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

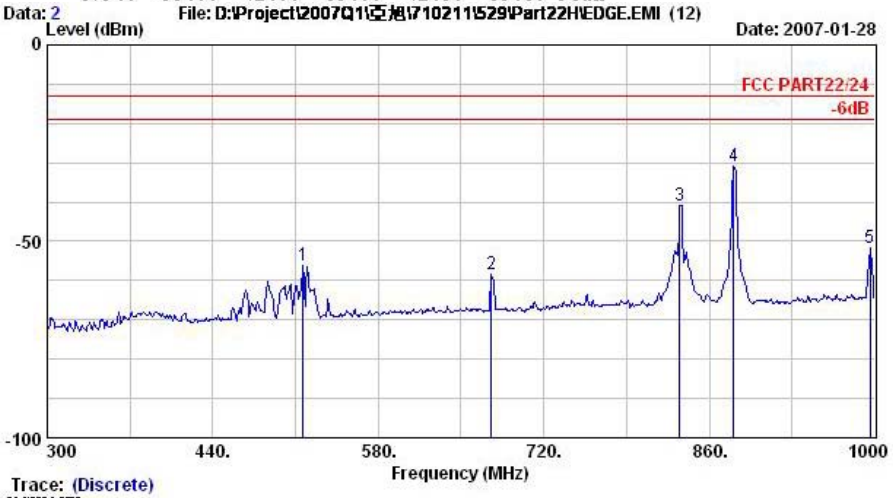
4.6.5.6 Mode 6
Horizontal Polarization



Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA with GPRS/EDGE+WLAN11g+BT
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	39.2	-55.20	-42.20	-13.00	-50.08	-5.12	Peak
2	123.7	-56.52	-43.52	-13.00	-44.00	-12.52	Peak
3 @	141.8	-53.33	-40.33	-13.00	-40.61	-12.72	Peak
4	179.0	-55.66	-42.66	-13.00	-42.50	-13.16	Peak

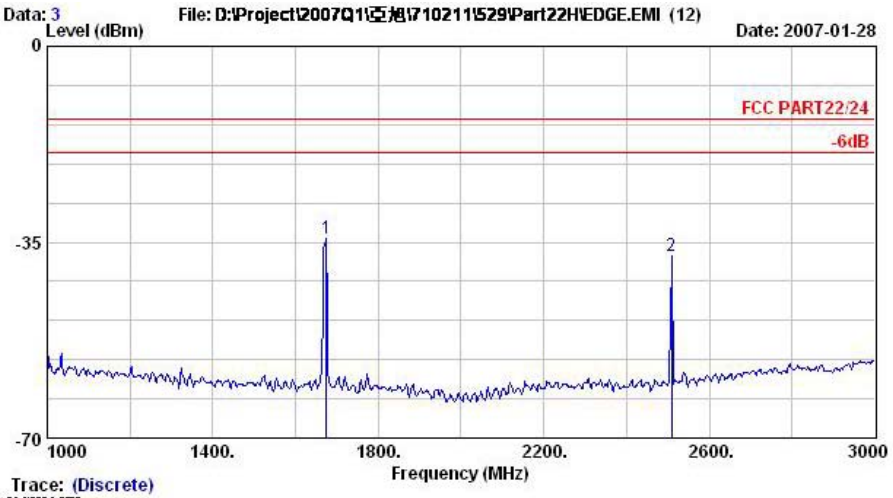


Trace: (Discrete)

Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : PDA with GPRS/EDGE+WLAN11g+BT
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	516.3	-56.00	-43.00	-13.00	-51.10	-4.90	Peak
2	675.9	-58.30	-45.30	-13.00	-55.34	-2.96	Peak
3 @	834.8	-40.95			-39.60	-1.35	Peak
4 @	880.3	-31.04			-30.12	-0.91	Peak
5 @	995.8	-51.66	-38.66	-13.00	-51.86	0.20	Peak

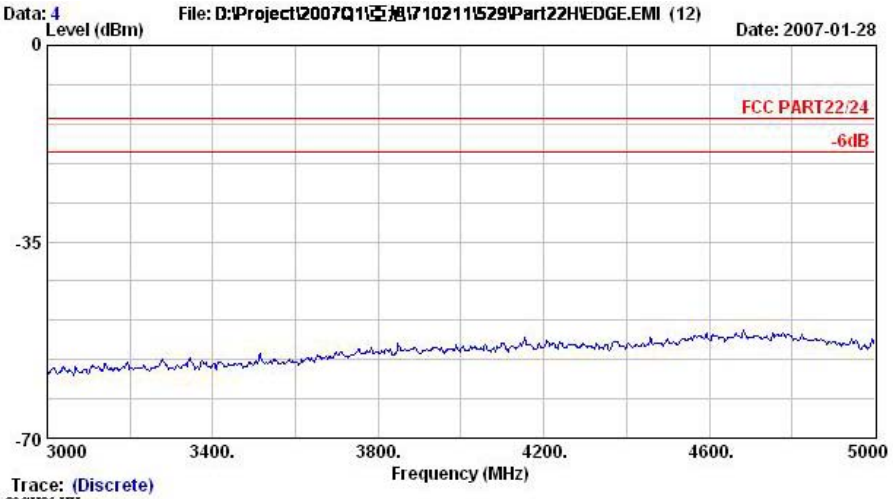
Remark:
1. #3: MS Signal
2. #4: BS Signal



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA with GPRS/EDGE+WLAN11g+BT
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch189+Adaptor
Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1674.0	-34.36	-21.36	-13.00	-34.58	0.22	Peak
2 @	2508.0	-37.50	-24.50	-13.00	-38.70	1.20	Peak



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : PDA with GPRS/EDGE+WLAN11g+BT
Power : 120Vac/60Hz
Model : FG710211
Memo : EDGE Link Mode;Ch189+Adaptor
Plane : E2