



FCC TEST REPORT

for

47 CFR Part 24E

Equipment : Smart-Phone
Trade Name : Kinpo
Model No. : SP70R
Tx Frequency Range : PCS 1900: 1850.2~1909.8MHz
Max. EIRP Power : PCS 1900: 1.24W
Emission Designator : 300 KGXW
Applicant : Kinpo Electronics, Inc.
10TH FL., 99 NAN-KING E. RD., SEC. 5, TAIPEI, TAIWAN, (105)
R.O.C.

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- The data shown in this test report were carried out on Apr. 27, 2006 at **Sporton International Inc. LAB.**
- Report No.: FG631719-B, Report Version: Rev. 01.

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Report Version: Rev. 01



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History of this test report

Report Issue Date: May 06, 2006

Report No.	Description
FG631719	Kinpo SP70R is the serial model of SP70. Difference between these models is ID. Updating Sporton report FG610605 by retesting conducted power, EIRP and radiated emission.



1. General Information

1.1. Applicant

Kinpo Electronics, Inc.

10TH FL., 99 NAN-KING E. RD., SEC. 5, TAIPEI, TAIWAN, (105) R.O.C.

1.2. Manufacturer

Kinpo Electronics (China) Co., Ltd.

SHA TOU VILLAGE, CHANG AN TOWN DONG GUAN CITY, GUAN DONG PROVINCE

1.3. Basic Description of Equipment under Test

Equipment	: Smart-Phone
Trade Name	: Kinpo
Model No.	: SP70R
Power Supply Type	: Switching
AC Power Cord	: AC 120V, Wall-mount, 1.8 meter, 2pin
Battery	: Kinpo, SXXXX (X=0~9 or A~Z or a~z or black or -)
Adapter	: Phihong, PSC11R-050

1.2 Feature of Equipment under Test

DUT Type :	Smart-Phone
Trade Name :	Kinpo
Model Name :	SP70R
Tx Frequency :	PCS : 1850.2-1909.8 MHz. BT /WLAN: 2400-2483.5 MHz
Rx Frequency :	PCS : 1930.2-1989.8 MHz BT /WLAN: 2400-2483.5 MHz
Antenna Type :	Fixed Internal
Maximum Output Power to Antenna :	PCS: 29.3 dBm WLAN: 18.69 dBm BT: 0.13 dBm
Maximum EIRP :	1.24 W (30.93 dBm)
HW Version :	SP70-11
SW Version :	03.07
Power Rating (DC/AC Voltage) :	3.8V / 1300mA
Digital Modulation Emission :	PCS: GMSK WLAN: DSSS Bluetooth: GFSK
Type of Emission :	300 KGXW
DUT Stage :	Production Unit

1.3 Report Date

EUT Received : Mar. 17, 2006

Report Date : May 06, 2006

2 Test Configuration of Equipment under Test

2.1 Test Manner

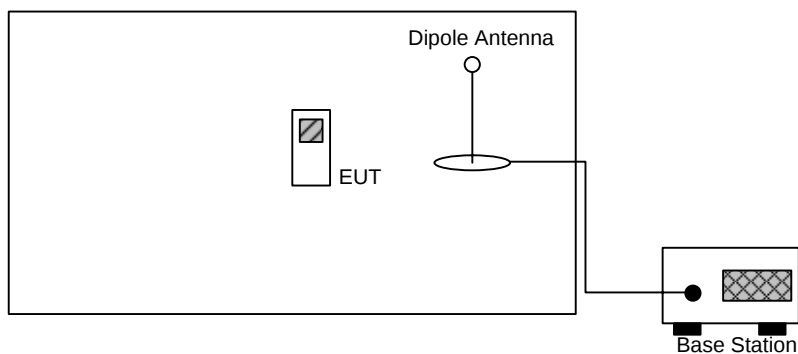
- The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- During all testings, EUT is in link mode with base station emulator at maximum power level. (PCL=0 for PCS 1900)
- Frequency range investigated: radiated emission 30MHz to 19000 MHz for PCS 1900.

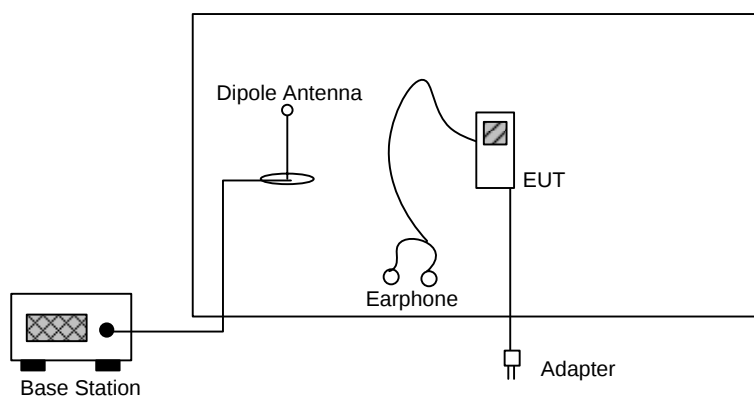
2.2 Test Mode

Application	PCS 1900
Radiated Emission	☒ Mode 1: PCS 1900 Link Mode_CH 661
	☒ Mode 2: PCS 1900 Link Mode_CH 661 + WLAN Link Mode_CH06
	☒ Mode 3: PCS 1900 Link Mode_CH 661 for SP70R
Conducted Measurement	☒ Mode 1: PCS 1900 Link Mode_CH 661

2.3 Connection Diagram of Test System

Mode 1-2



Mode 3

2.4 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	Power Cord
1.	Base Station	R & S	CMU200	AC 100-240V
2.	Earphone	iDo	CHM305STS01018	N/A
3.	Adapter	Phihong	PSC11R-050	AC 100-240V



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. The Industry Canada file number for this site is IC 4088.

3.1 Test Voltage

120V / 60Hz

3.2 Test in Compliance with

47 CFR Part 24E

3.3 Frequency Range Investigated

- a. Radiation: from 30 MHz to 19000 MHz for PCS 1900.

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	DESCRIPTION OF TEST	Result	Section
§2.1046	RF Output Power	Passed	4.2
§24.232	ERP / EIRP	Passed	4.3
§2.1049, § 24.238(b)	Occupied Bandwidth & Band Edge Measurement	Passed	4.4
§2.1051	Conducted Emission	Passed	4.5
§2.1053	Field Strength of Spurious Radiation	Passed	4.6
§2.1055, §24.235	Frequency Stability vs. Temperature	Passed	4.7
§2.1055, §24.235	Frequency Stability vs. Voltage	Passed	4.8

4.2 RF Output Power

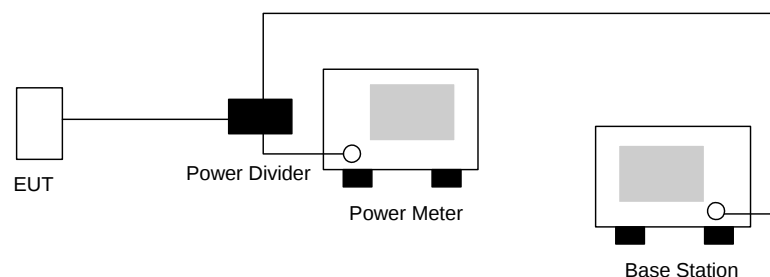
4.2.1 Measurement Instruments :

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=0 for PCS 1900 through base station.
3. Select lowest, middle, and highest channels for each band.

4.2.3 Test Setup Layout :



4.2.4 Test Result :

Model	Bands	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
SP70R	PCS 1900	512	1850.2 (Low)	29.14	0.820
		661	1880.0 (Mid)	29.17	0.826
		810	1909.8 (High)	29.30	0.851
SP70	PCS 1900	512	1850.2 (Low)	29.10	0.815
		661	1880.0 (Mid)	29.10	0.815
		810	1909.8 (High)	29.20	0.839

4.3 ERP / EIRP Measurement

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

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.

$E_t = R_t + AF$

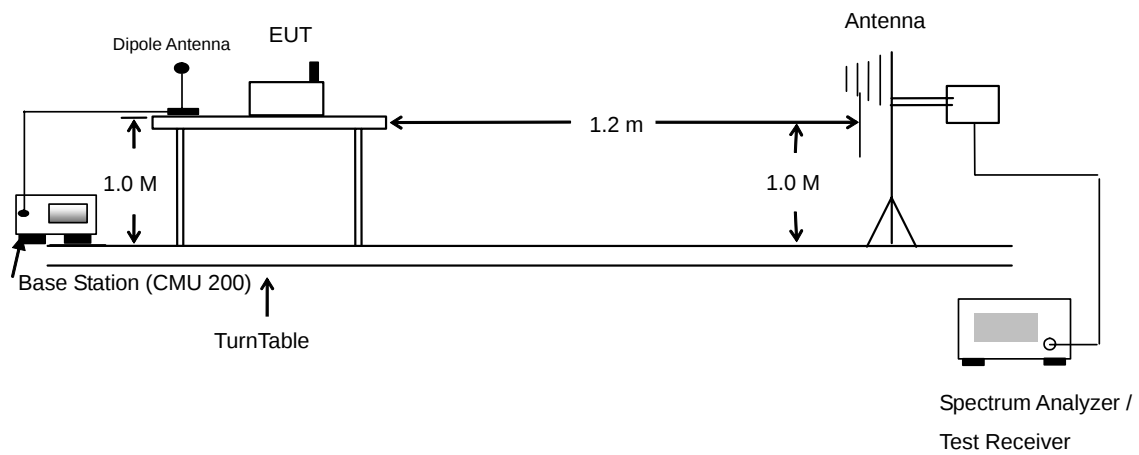
$E_s + R_s + AF$

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

Kinpo/SP70R						
PCS1900 Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.2	-25.60	-51.88	0	1.96	28.24	0.67
1880.0	-25.81	-52.99	0	2.00	29.18	0.83
1909.8	-28.15	-54.28	0	1.98	28.11	0.65
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.2	-24.19	-52.13	0	1.96	29.90	0.98
1880.0	-24.24	-53.17	0	2.00	30.93	1.24
1909.8	-25.91	-54.13	0	1.98	30.20	1.05

Kinpo/SP70						
PCS1900 Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	ERP (dBm)	ERP (W)
1850.2	-28.61	-51.88	0	1.96	25.23	0.33
1880.0	-28.91	-52.99	0	2.00	26.08	0.41
1909.8	-29.41	-54.28	0	1.98	26.85	0.48
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	ERP (dBm)	ERP (W)
1850.2	-24.12	-52.13	0	1.96	29.97	0.99
1880.0	-24.08	-53.17	0	2.00	31.09	1.29
1909.8	-23.70	-54.13	0	1.98	32.41	1.74

4.4 Occupied Bandwidth and Band Edge Measurement

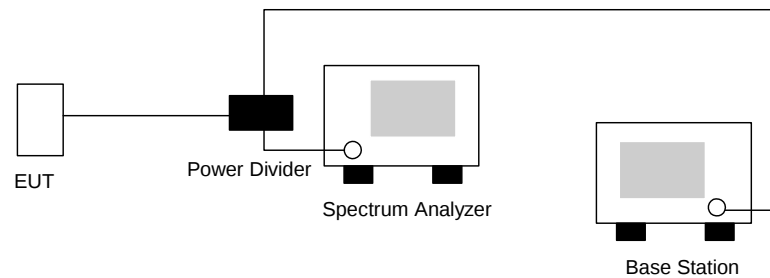
4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

4.4.2 Test Procedure

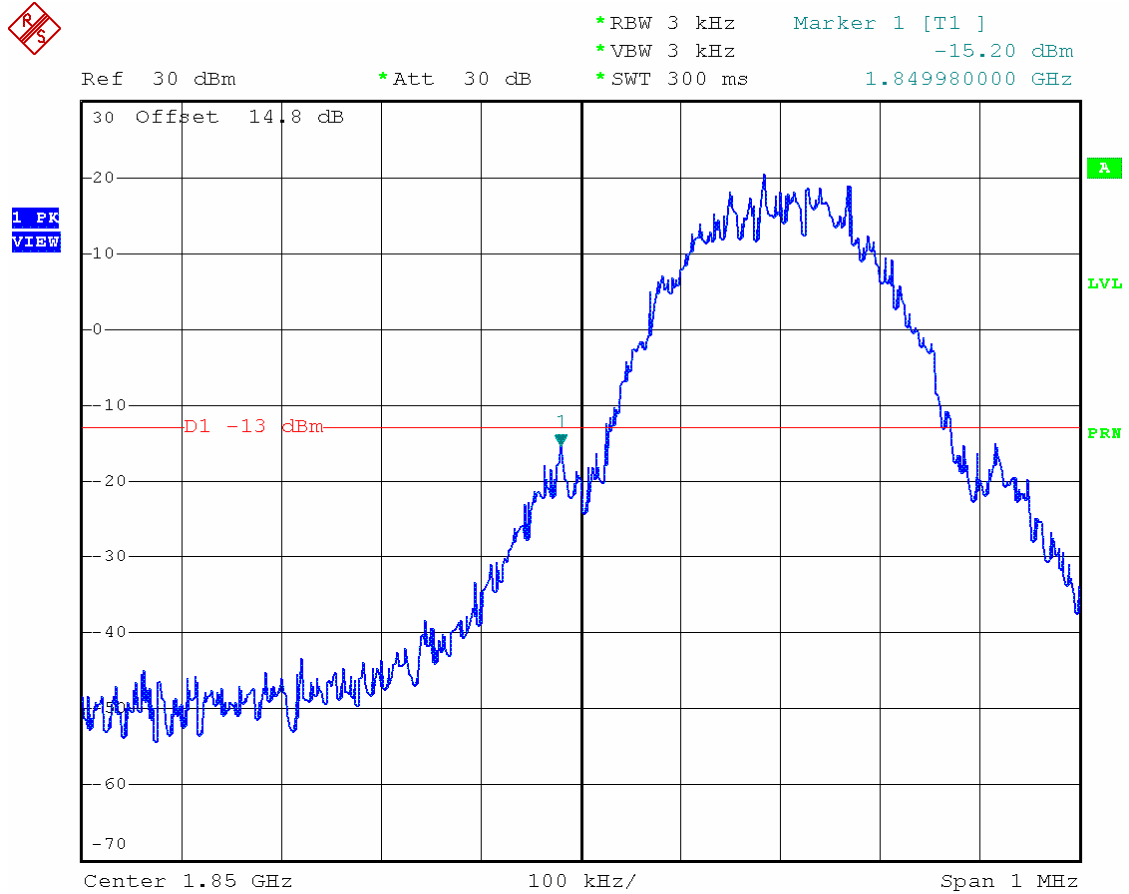
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The occupied bandwidth of middle channel for the highest and lowest RF powers were measured.
3. The bandedge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting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

4.4.3 Test Setup Layout



4.4.4 Test Result

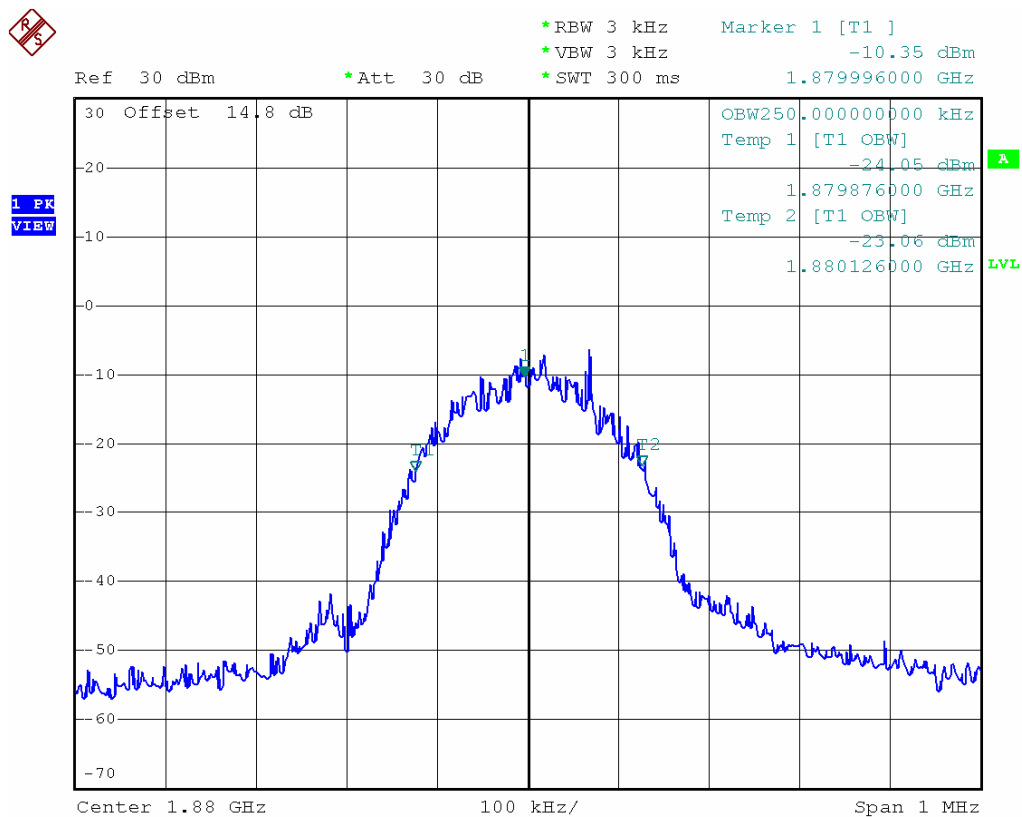
- Test Mode : PCS 1900 CH512 Lower Band Edge
- Power State : High



Date: 18.JAN.2006 19:25:43



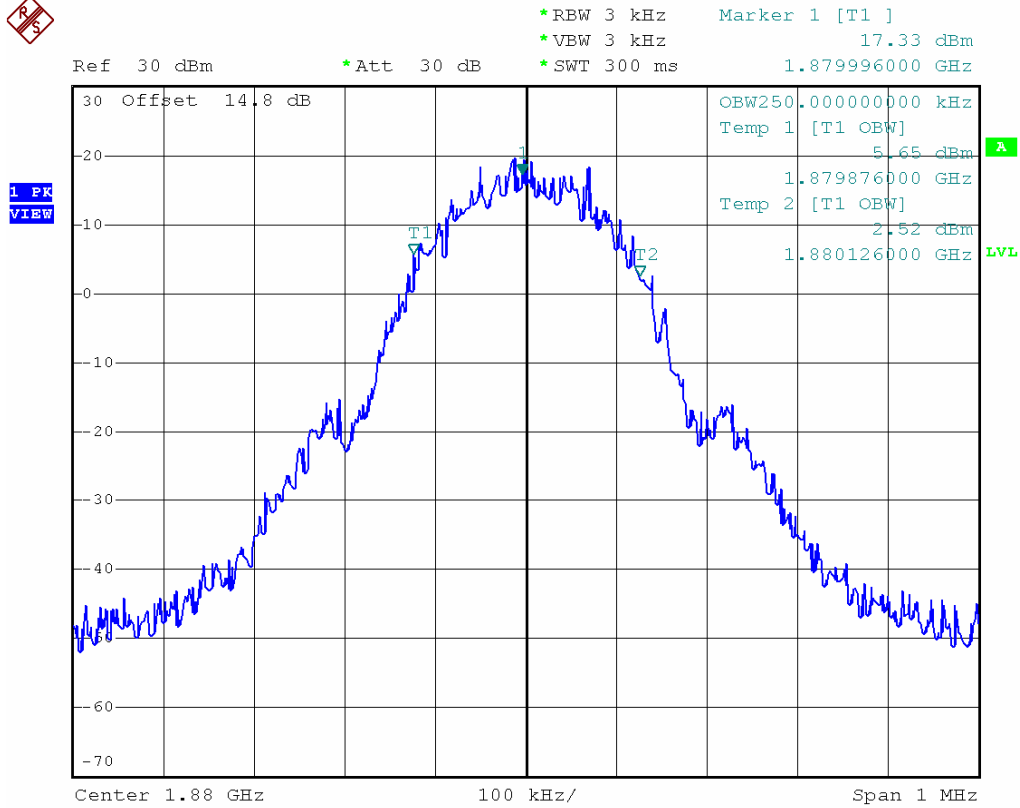
- Test Mode : PCS 1900 CH661 99% Occupied Bandwidth
- Power State : Low



Date: 18.JAN.2006 20:23:33



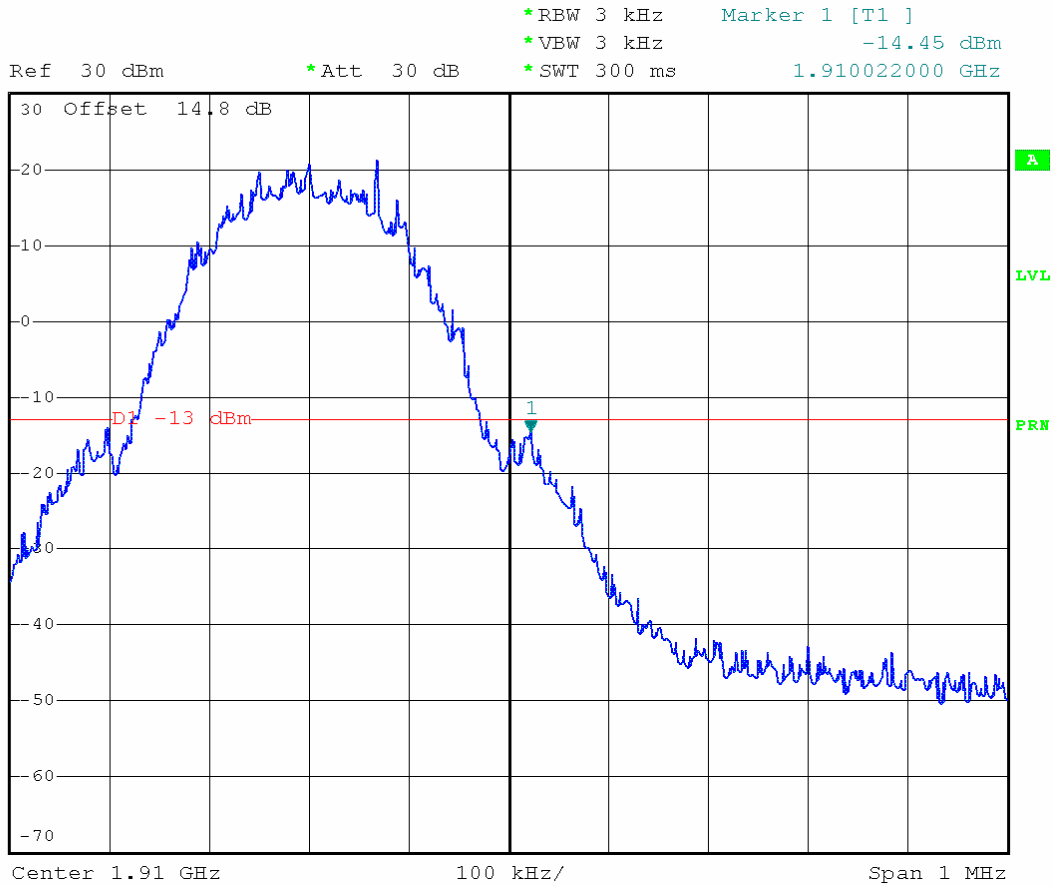
- Test Mode : PCS 1900 CH661 99% Occupied Bandwidth
- Power State : High



Date: 18.JAN.2006 20:22:15



- Test Mode : PCS 1900 CH810 Higher Band Edge
- Power State : High



Date: 18.JAN.2006 19:21:52

4.5 Conducted Emission

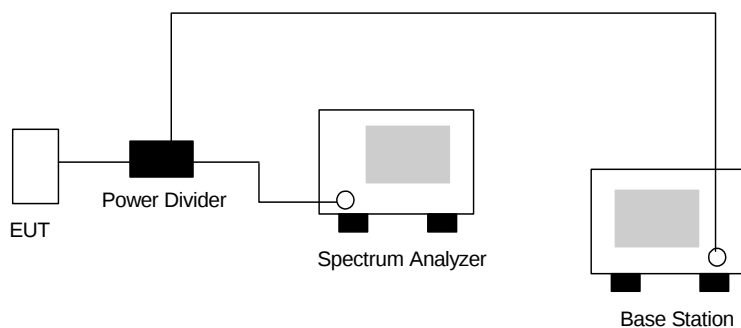
4.5.1 Measurement Instruments

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.

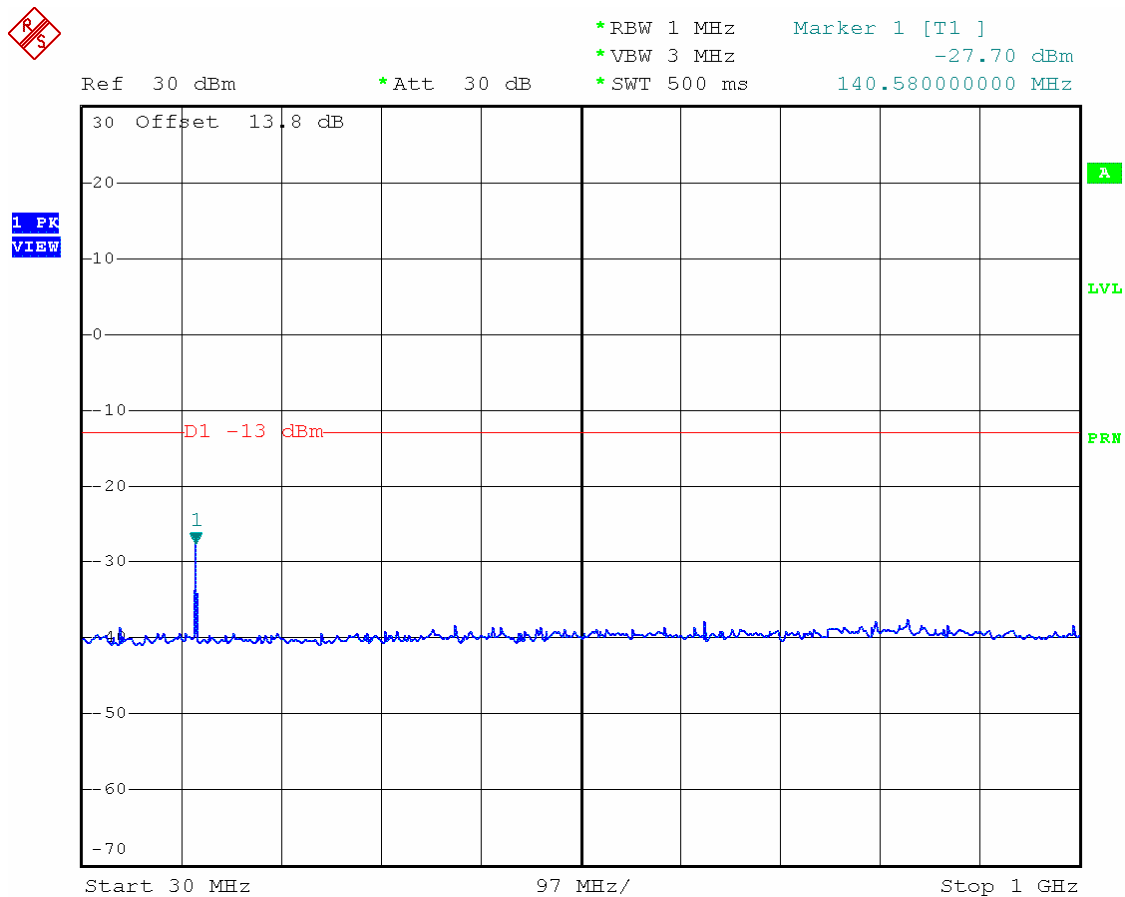
4.5.3 Test Setup Layout





4.5.4 Test Result

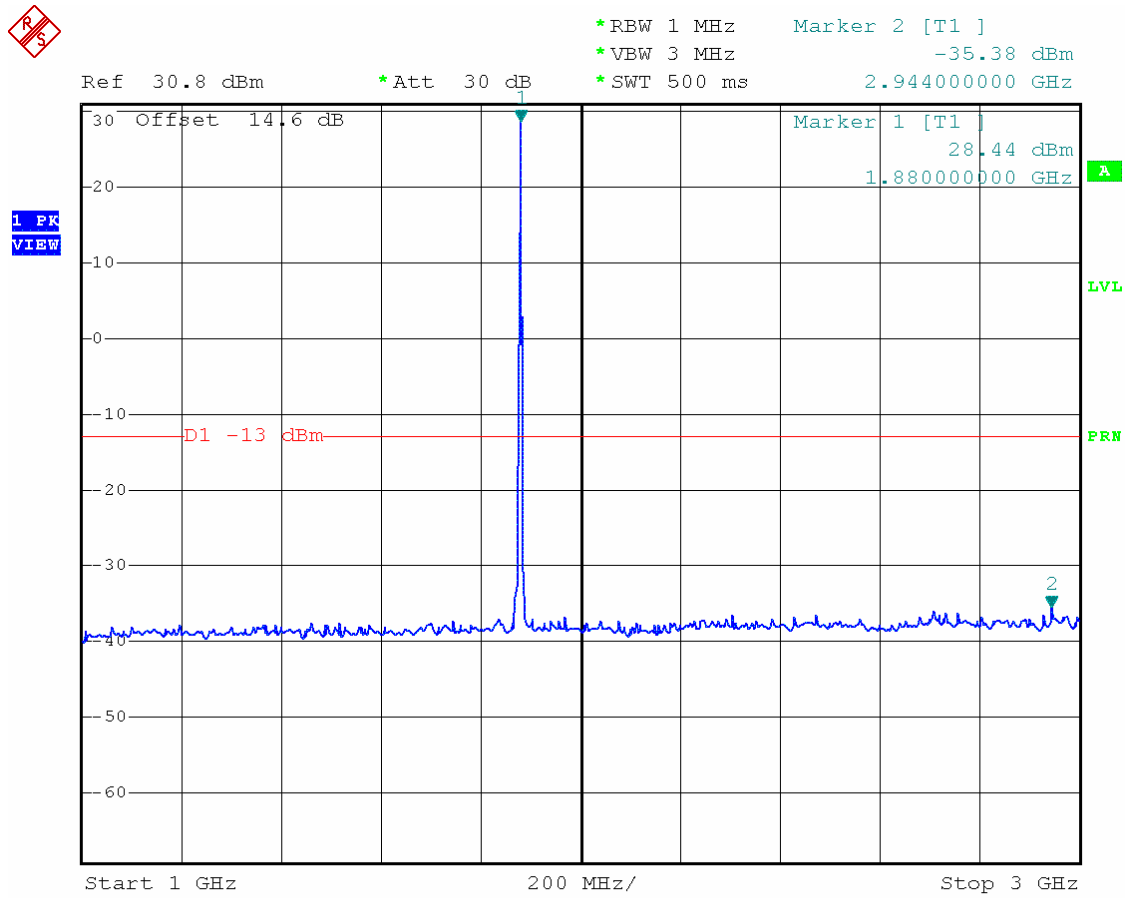
- Test Mode : PCS 1900 CH661
- Frequency Range : 0.3G-1G



Date: 18.JAN.2006 19:32:00



- Test Mode : PCS 1900 CH661
- Frequency Range : 1G-3G



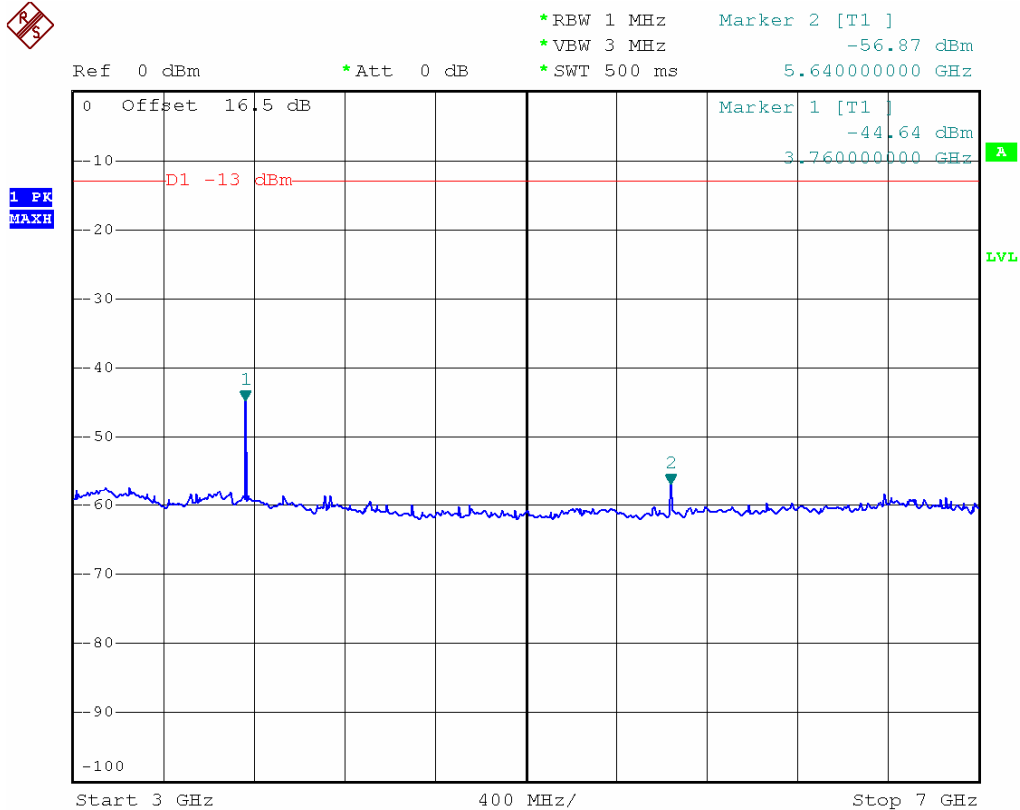
Date: 18.JAN.2006 19:33:52



FCC TEST REPORT

Report No. : FG631719-B

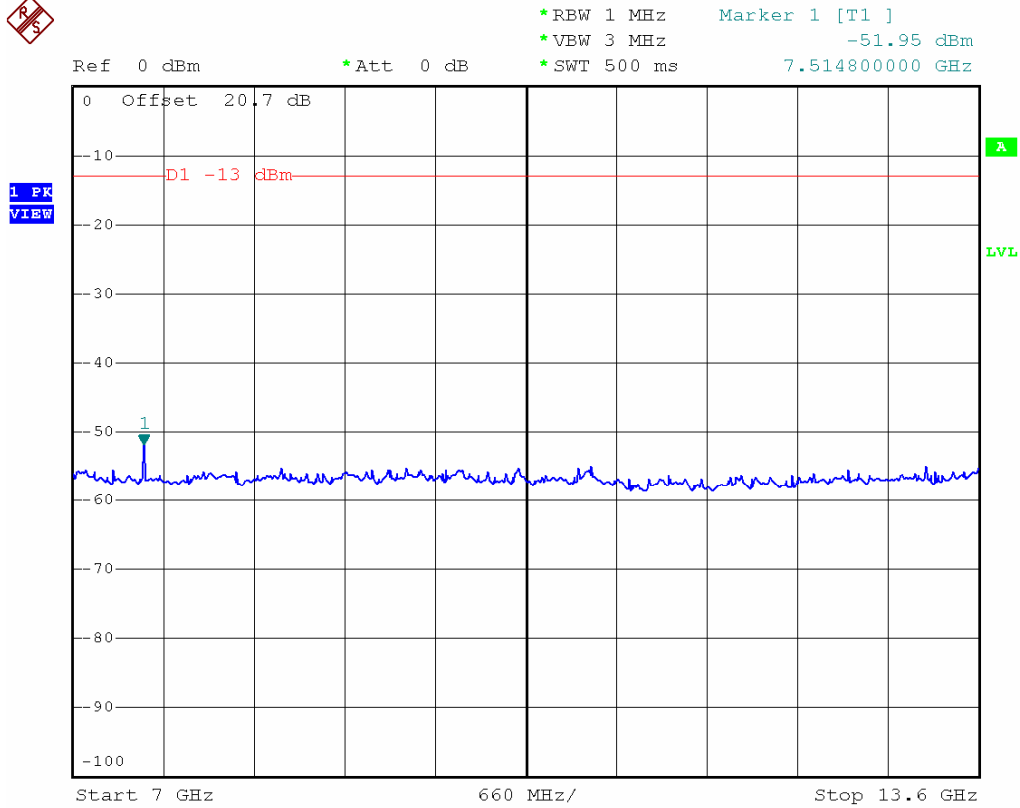
- Test Mode : PCS 1900 CH661
- Frequency Range : 3G-7G



Date: 18.JAN.2006 20:27:20



- Test Mode : PCS 1900 CH661
- Frequency Range : 7G-13.6G



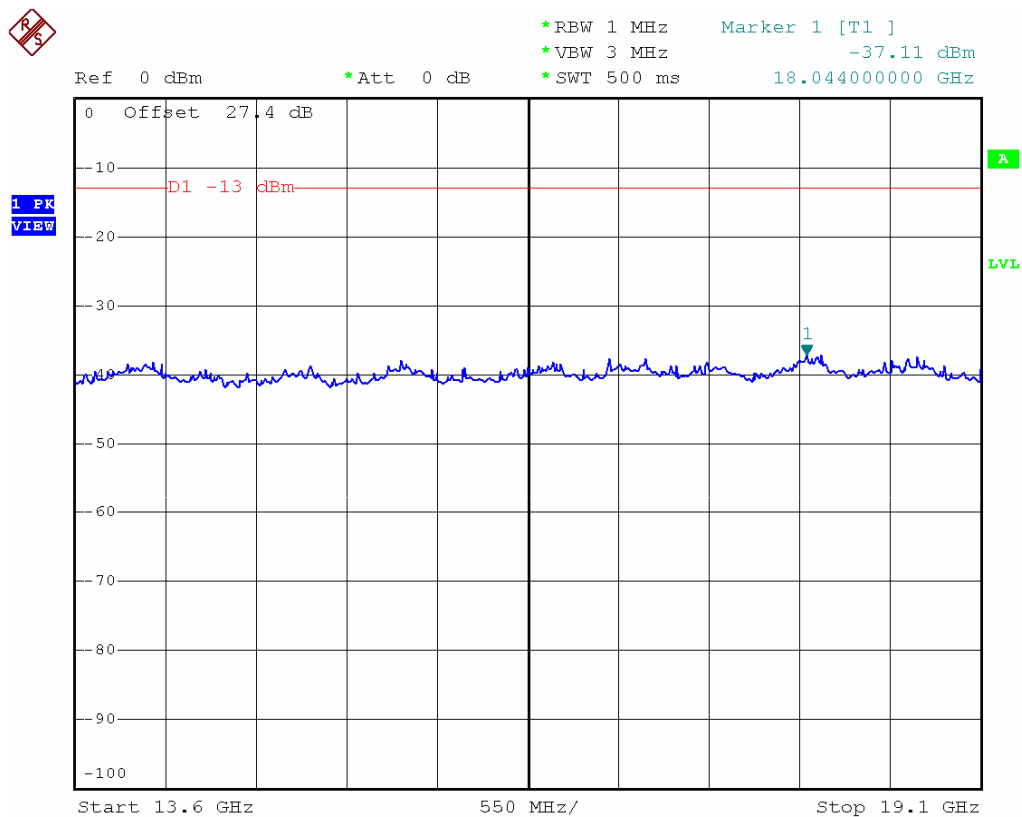
Date: 18.JAN.2006 20:28:35



FCC TEST REPORT

Report No. : FG631719-B

- Test Mode : PCS 1900 CH661
- Frequency Range : 13.6G-19.1G



Date: 18.JAN.2006 20:29:43

4.6 Field Strength of Spurious Radiation

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

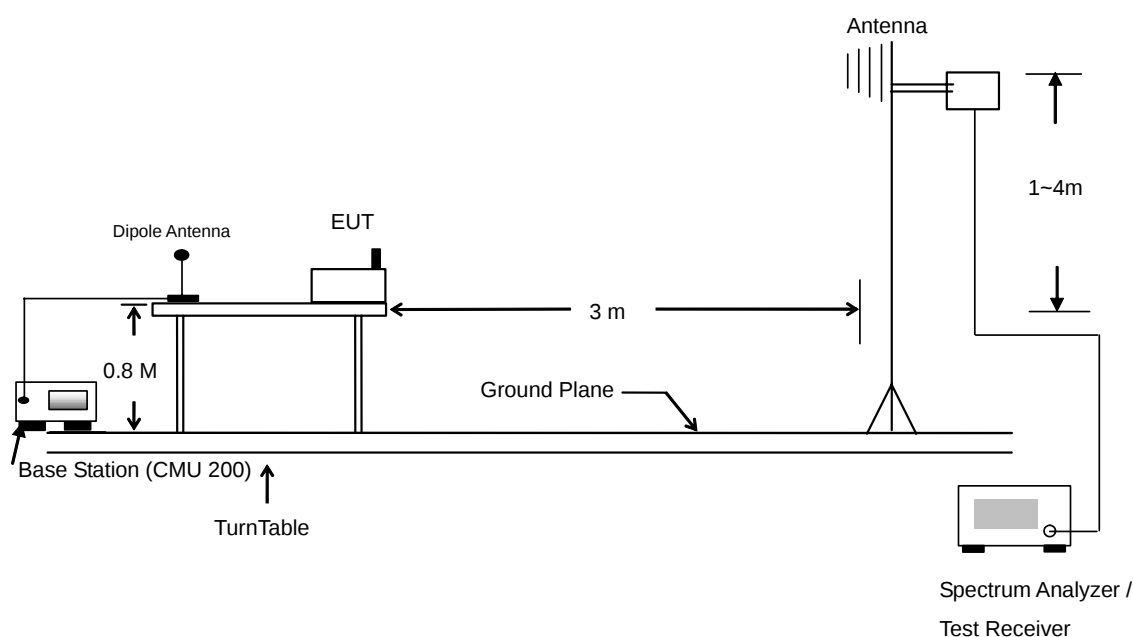
4.6.1 Measurement Instruments

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

PCS1900 Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
30.000	-57.940	-13	-44.94	54.030	-51.740	-13	-38.74
55.380	-61.150	-13	-48.15	71.040	-52.500	-13	-39.50
171.480	-61.480	-13	-48.48	98.040	-55.530	-13	-42.53
383.300	-65.740	-13	-52.74	532.400	-59.750	-13	-46.75
3758.000	-38.810	-13	-25.81	3758.000	-45.850	-13	-32.85
5638.000	-48.030	-13	-35.03				
7518.000	-40.410	-13	-27.41				
9398.000	-42.120	-13	-29.12				

Test Mode : Mode 2

PCS1900 with WLAN Co-location Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
31.080	-56.750	-13	-43.75	43.230	-50.730	-13	-37.73
141.780	-49.600	-13	-36.60	58.080	-50.050	-13	-37.05
207.390	-57.900	-13	-44.90	80.490	-41.170	-13	-28.17
351.800	-61.290	-13	-48.29	469.400	-62.940	-13	-49.94
820.800	-62.020	-13	-49.02	703.900	-62.930	-13	-49.93
3758.000	-50.080	-13	-37.08	1774.000	-58.080	-13	-45.08
4874.000	-41.580	-13	-28.58	4874.000	-43.880	-13	-30.88
5638.000	-47.950	-13	-34.95	5638.000	-46.480	-13	-33.48
				7518.000	-46.030	-13	-33.03

- Test Mode : Mode 3

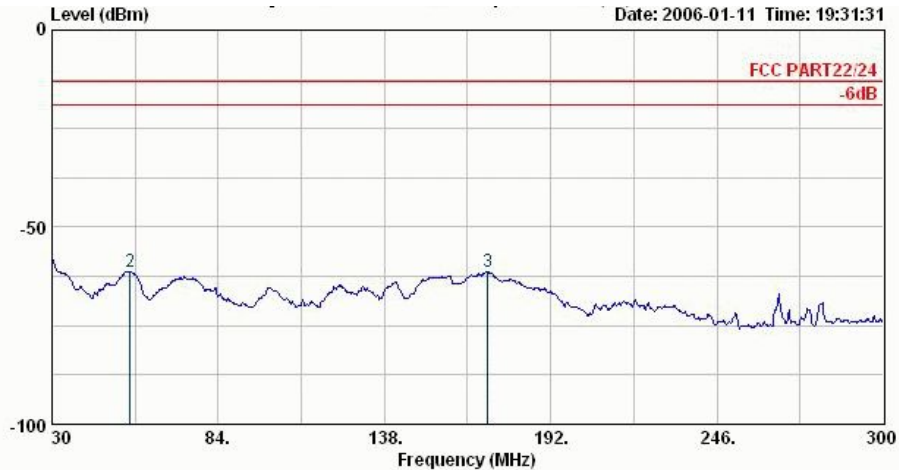
PCS1900 Radiated Spurious EIRP for SP70R							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
30.54	-52.35	-13	-39.35	30.00	-50.95	-13	-37.95
66.99	-62.11	-13	-49.11	72.39	-43.62	-13	-30.62
97.23	-55.41	-13	-42.41	142.59	-52.78	-13	-39.78
469.40	-58.18	-13	-45.18	434.40	-51.70	-13	-38.70
502.30	-51.33	-13	-38.33	455.40	-48.09	-13	-35.09
824.30	-55.34	-13	-42.34	511.40	-51.56	-13	-38.56
3758.00	-44.57	-13	-31.57	3758.00	-46.40	-13	-33.40
3868.00	-47.96	-13	-34.96	5638.00	-52.61	-13	-39.61
5638.00	-42.91	-13	-29.91				



4.6.5 Test Data

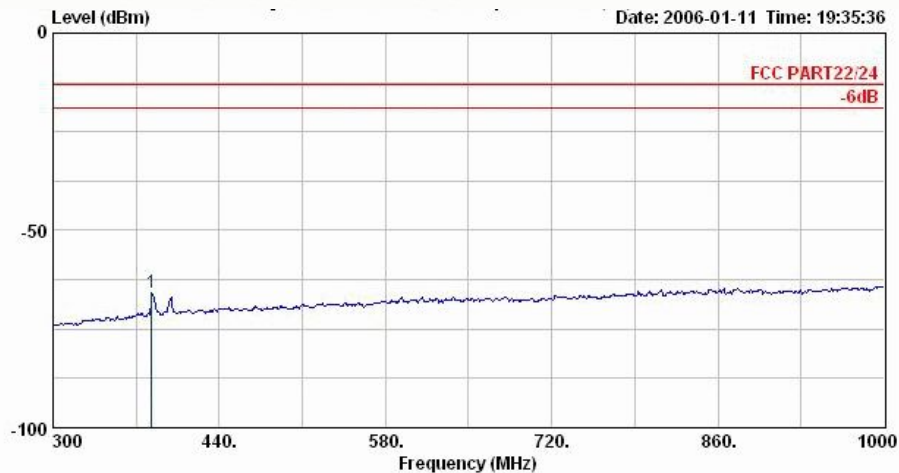
Mode 1

Horizontal Polarization



Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

	Freq	Level	Over	Limit	ReadAntenna		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1 @	30.00	-57.94	-44.94	-13.00	-58.30	0.36	Peak
2	55.38	-61.15	-48.15	-13.00	-48.74	-12.41	Peak
3	171.48	-61.48	-48.48	-13.00	-48.42	-13.07	Peak



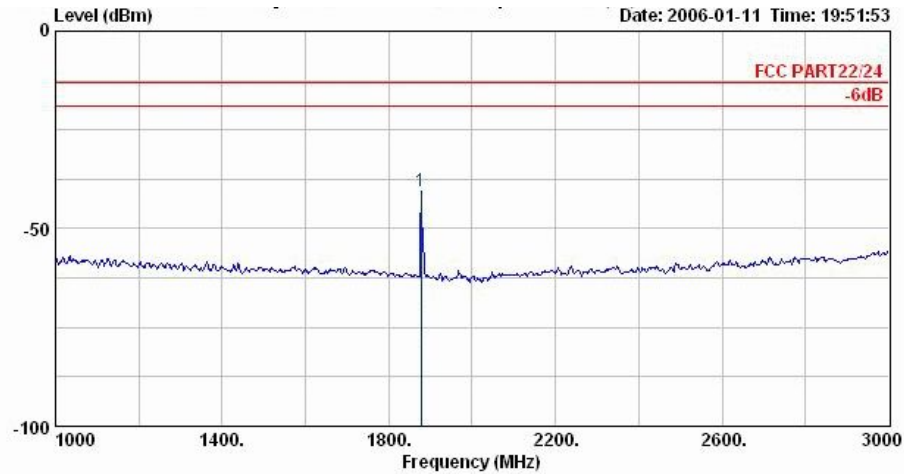
Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

	Freq	Level	Over	Limit	ReadAntenna		
	MHz	dBm	Limit	Line	Level	Factor	Remark
			dB	dBm	dBm	dB	
1	383.30	-65.74	-52.74	-13.00	-58.67	-7.07	Peak



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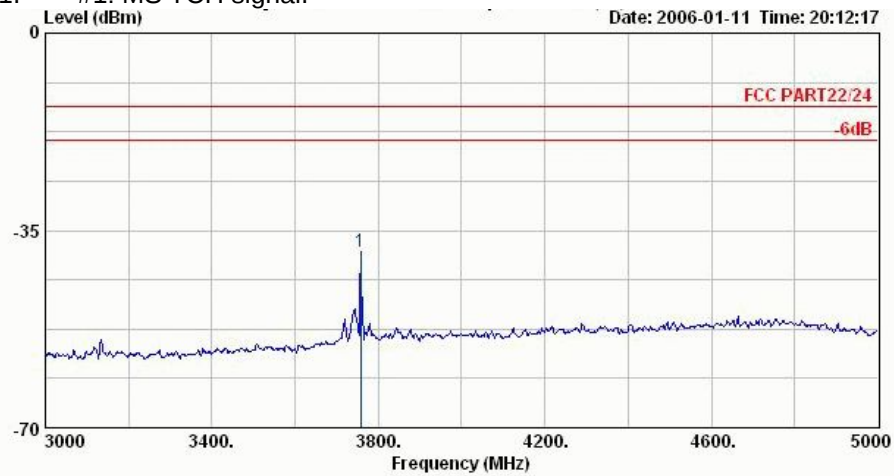


Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Remark
	MHz	dBm	dB	dBm	dB	
1 @	1878.00	-40.54		-40.03	-0.51	Peak

Remark:

1. #1: MS TCH signal.



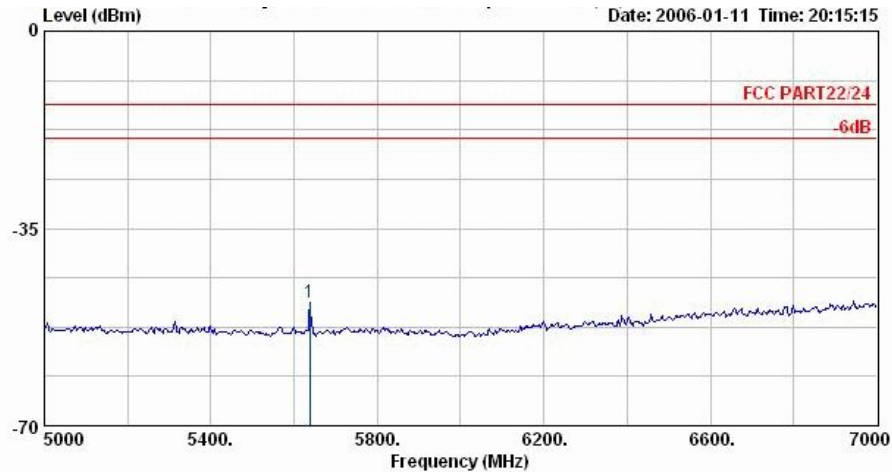
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Remark
	MHz	dBm	dB	dBm	dB	
1 @	3758.00	-38.81	-25.81	-13.00	-46.73	7.92 Peak



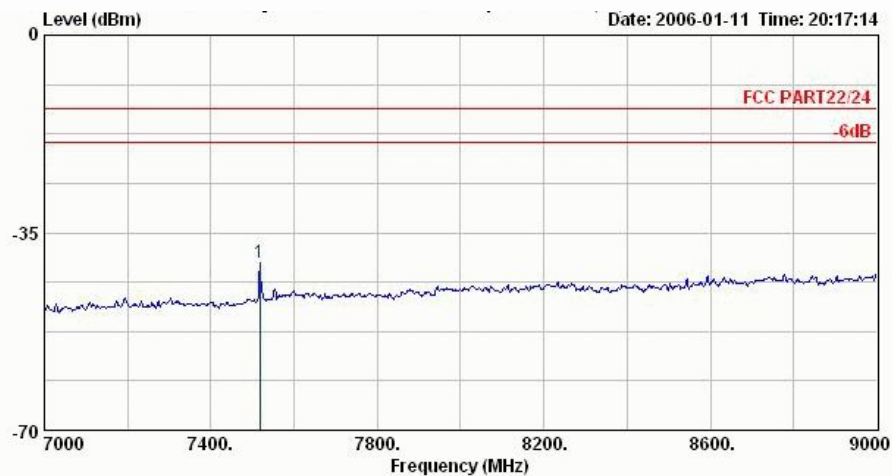
FCC TEST REPORT

Report No. : FG631719-B



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	5638.00	-48.03	-35.03	-13.00	-58.00	9.97	Peak



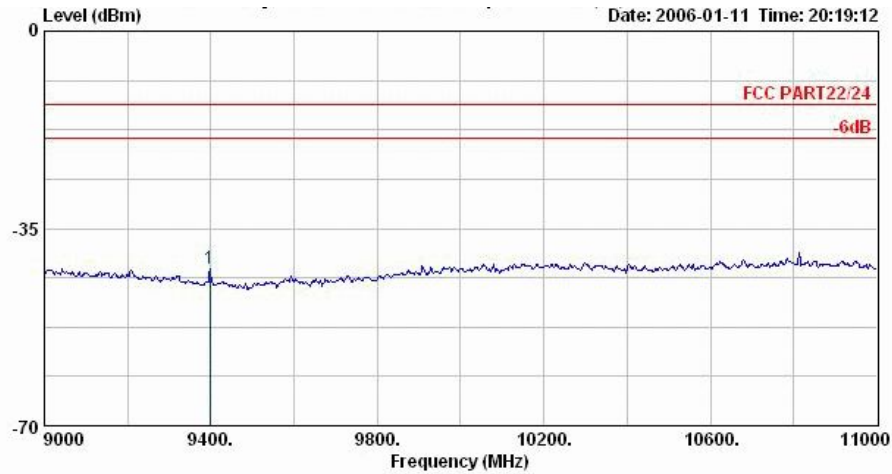
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	7518.00	-40.41	-27.41	-13.00	-56.21	15.80	Peak



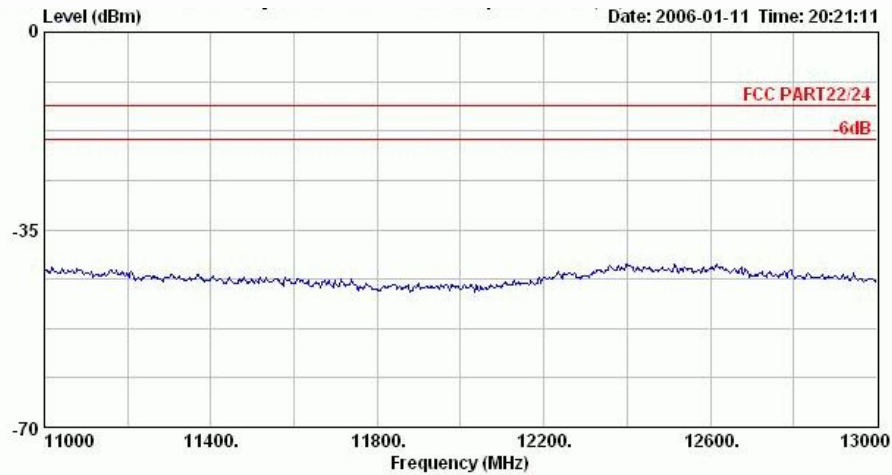
FCC TEST REPORT

Report No. : FG631719-B



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : PG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

	Freq	Level	Over	Limit	ReadAntenna	
	MHz	dBm	Limit	Line	Level Factor	Remark
			dB	dBm	dB	
1 @	9398.00	-42.12	-29.12	-13.00	-60.34	18.22 Peak

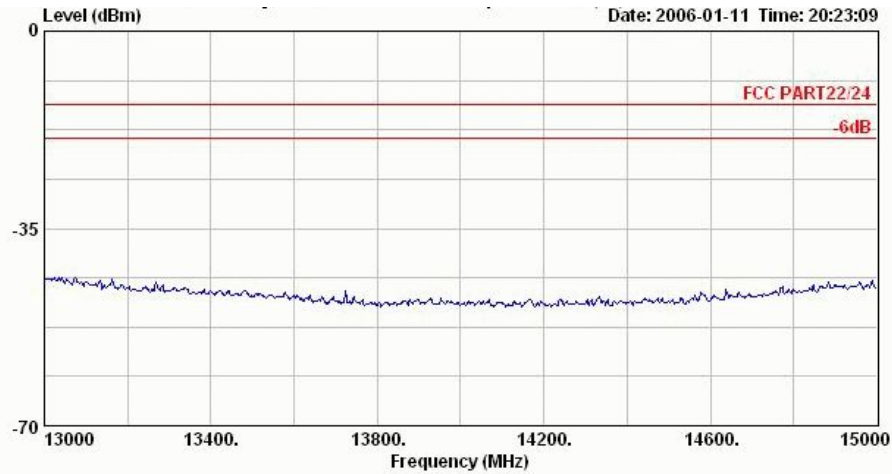


Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : PG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

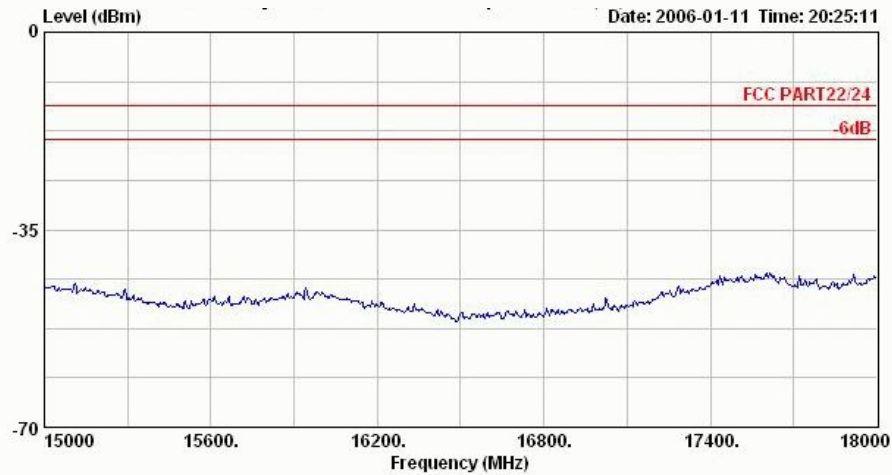


FCC TEST REPORT

Report No. : FG631719-B



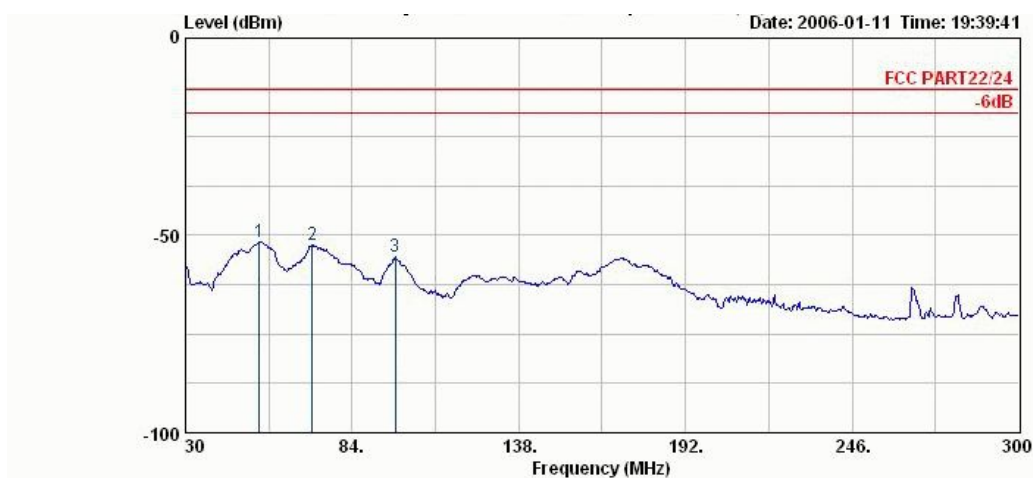
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

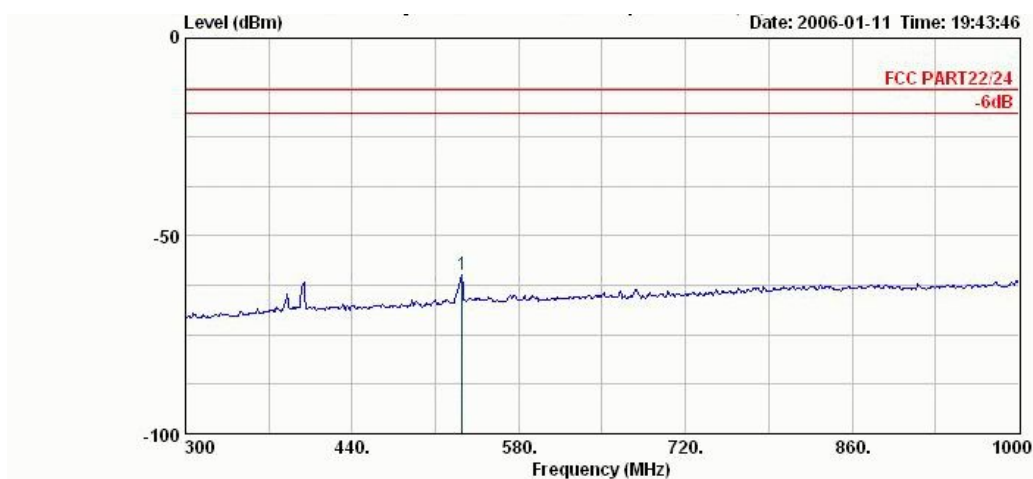


Vertical Polarization



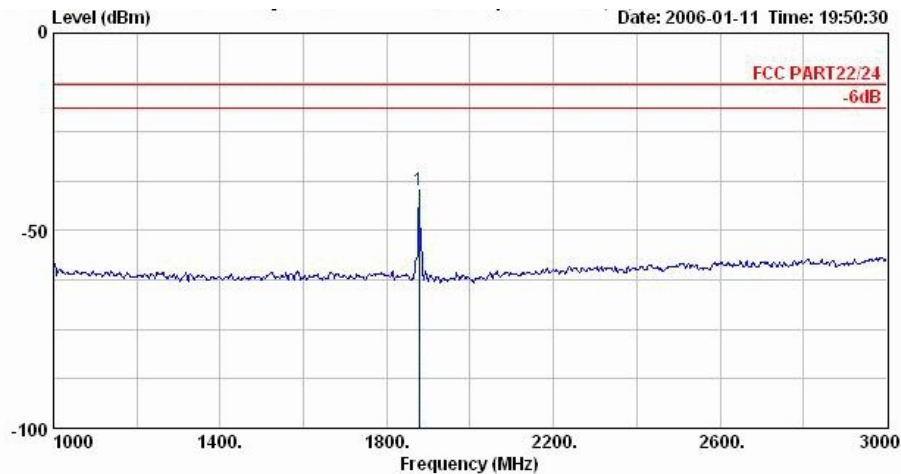
Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

	Freq	Level	Over	Limit	ReadAntenna	
	MHz	dBm	Limit	Line	Level Factor	Remark
			dB	dBm	dB	
1 @	54.03	-51.74	-38.74	-13.00	-37.48	-14.26 Peak
2 @	71.04	-52.50	-39.50	-13.00	-40.62	-11.88 Peak
3 @	98.04	-55.53	-42.53	-13.00	-47.56	-7.97 Peak



Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

	Freq	Level	Over	Limit	ReadAntenna	
	MHz	dBm	Limit	Line	Level Factor	Remark
			dB	dBm	dB	
1	532.40	-59.75	-46.75	-13.00	-57.01	-2.74 Peak

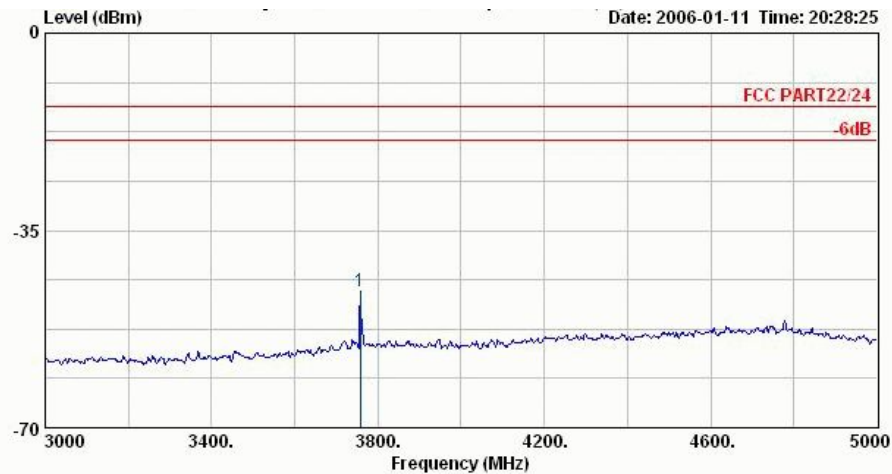


Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

	Freq	Level	Over	Limit	ReadAntenna	
	MHz	dBm	Limit	Line	Level Factor	Remark
			dB	dBm	dB	
1 @	1878.00	-39.93		-39.53	-0.40	Peak

Remark:

1. #1: MS TCH signal.



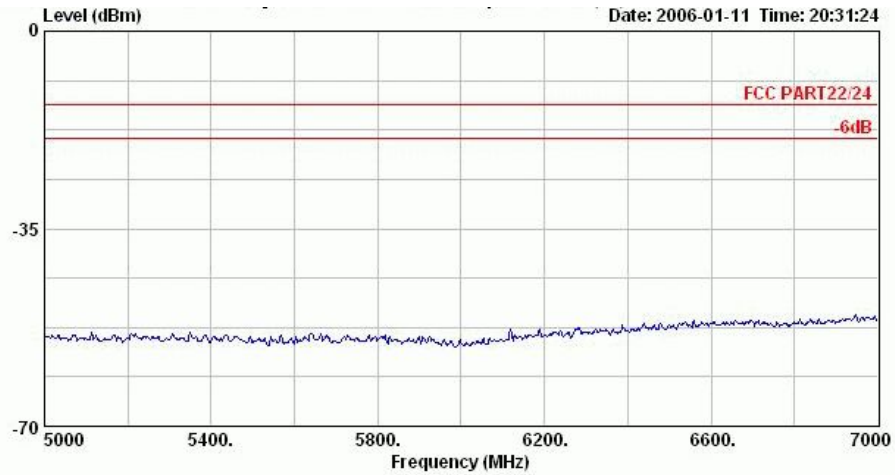
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

	Freq	Level	Over	Limit	ReadAntenna	
	MHz	dBm	Limit	Line	Level Factor	Remark
			dB	dBm	dB	
1 @	3758.00	-45.85	-32.85	-13.00	-52.49	6.64 Peak

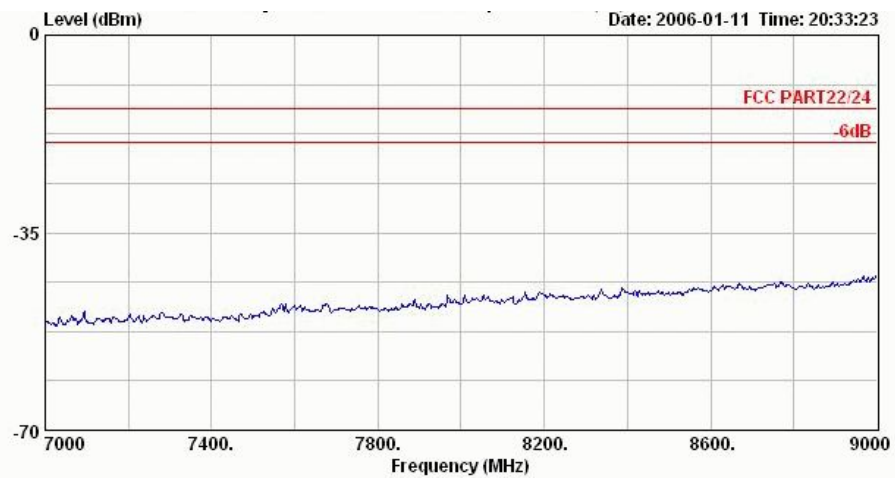


FCC TEST REPORT

Report No. : FG631719-B



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

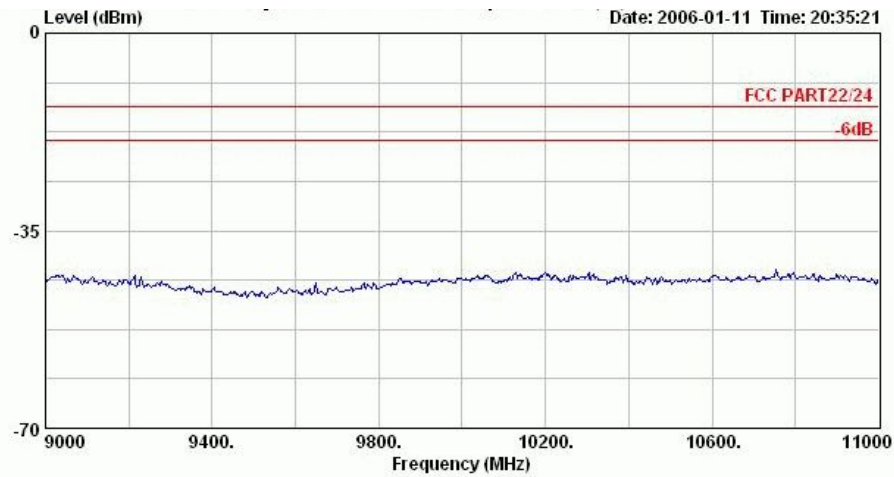


Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

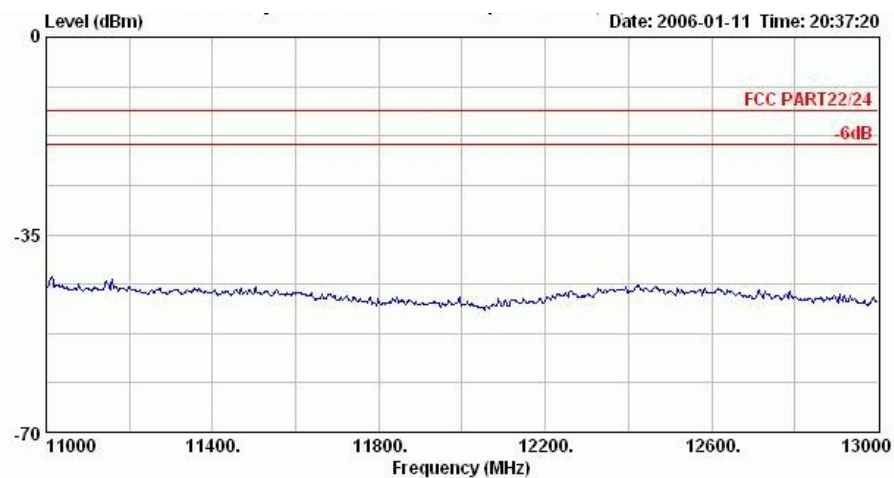


FCC TEST REPORT

Report No. : FG631719-B



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

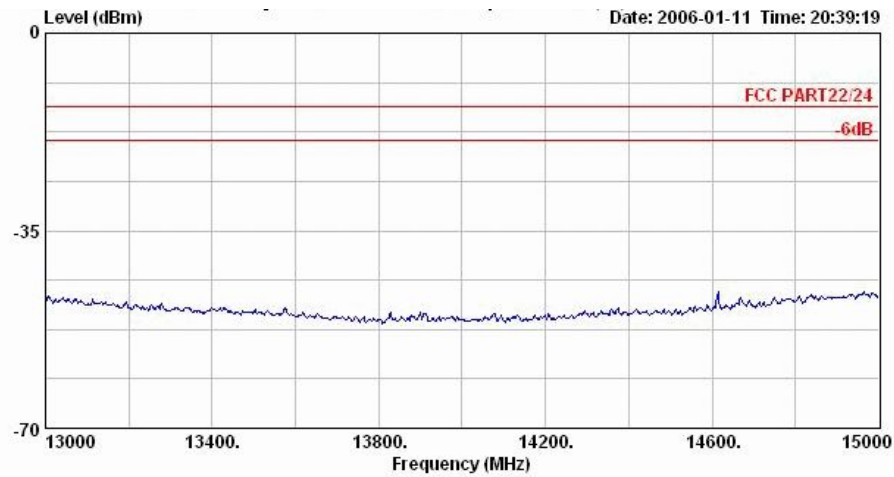


Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

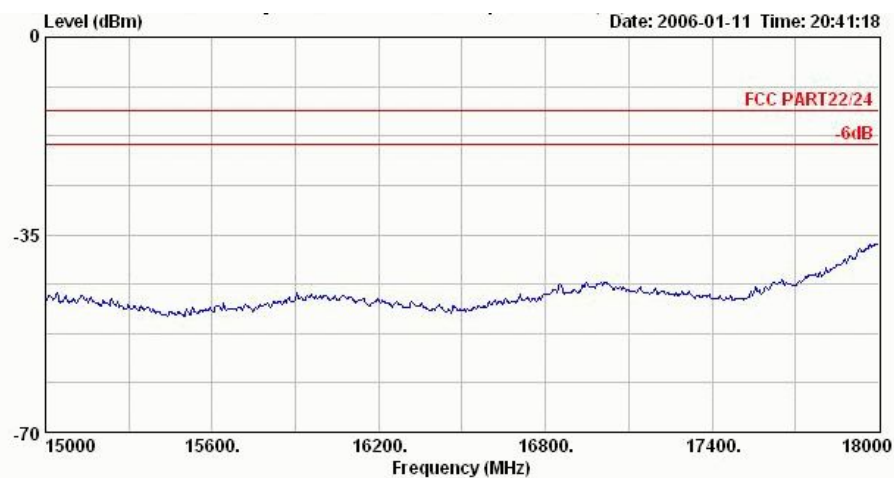


FCC TEST REPORT

Report No. : FG631719-B



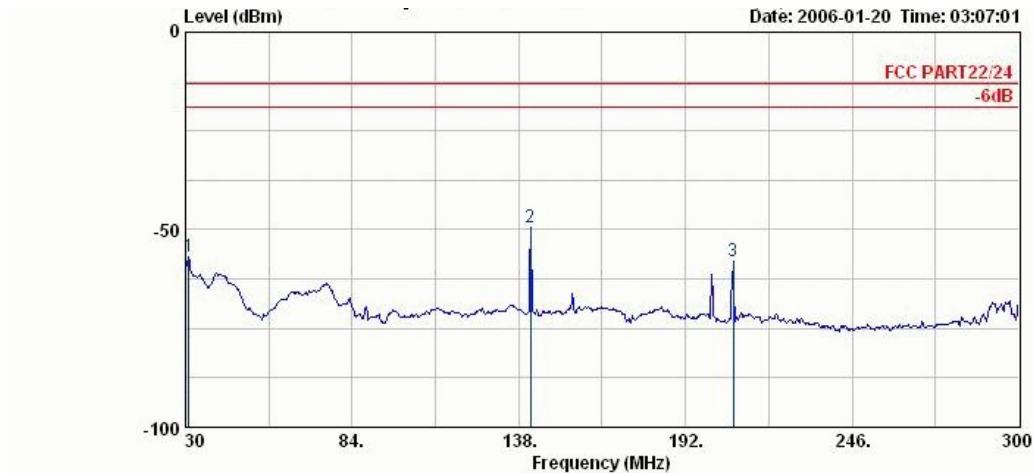
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : Real Battery
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661
Plane : H

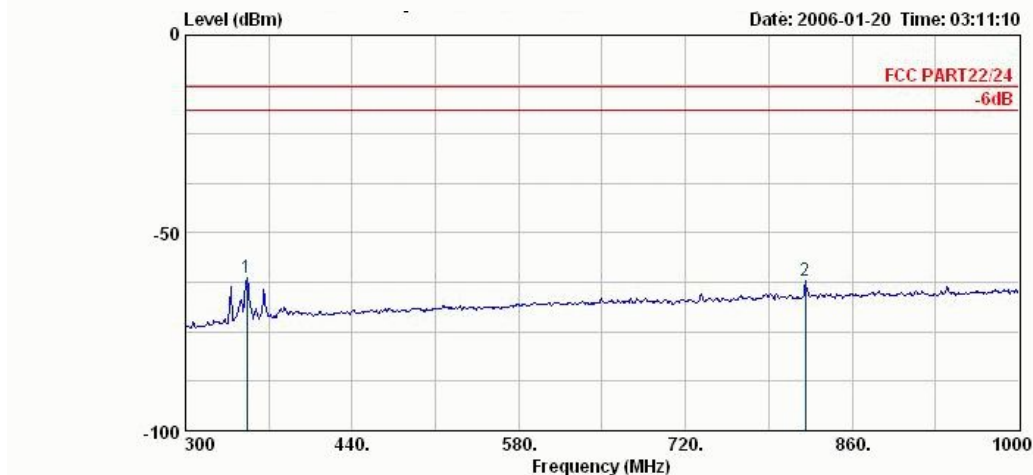
Mode 2

Horizontal Polarization



Site : 03CH06-HY
 Condition : LF-SPURIOUS HORIZONTAL
 EUT : (900/1800/1900) Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 610605
 Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

	Freq	Level	Over	Limit	ReadAntenna	
	MHz	dBm	Limit	Line	Level Factor	Remark
	MHz	dBm	dB	dBm	dB	
1 @	31.08	-56.75	-43.75	-13.00	-56.50	-0.25 Peak
2 @	141.78	-49.60	-36.60	-13.00	-36.88	-12.72 Peak
3 @	207.39	-57.90	-44.90	-13.00	-44.78	-13.12 Peak



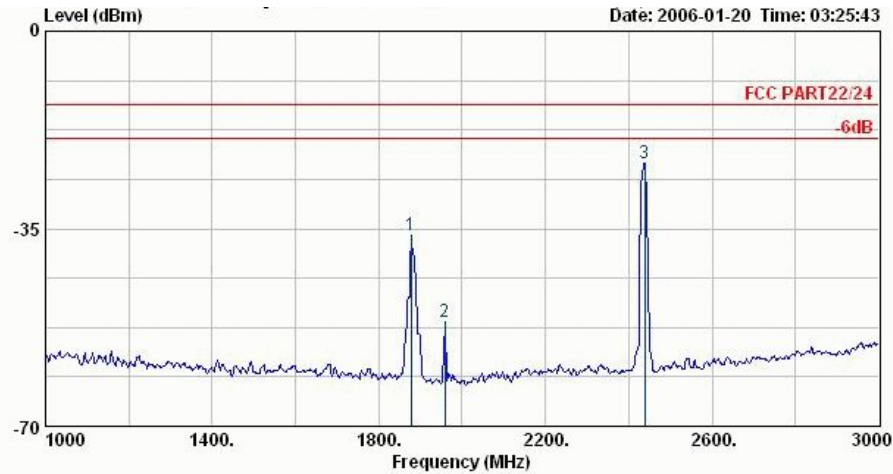
Site : 03CH06-HY
 Condition : LF-SPURIOUS HORIZONTAL
 EUT : (900/1800/1900) Mobile Phone
 Power : 120Vac/60Hz
 Model : FG 610605
 Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

	Freq	Level	Over	Limit	ReadAntenna	
	MHz	dBm	Limit	Line	Level Factor	Remark
	MHz	dBm	dB	dBm	dB	
1 @	351.80	-61.29	-48.29	-13.00	-53.15	-8.14 Peak
2 @	820.80	-62.02	-49.02	-13.00	-60.52	-1.49 Peak



FCC TEST REPORT

Report No. : FG631719-B

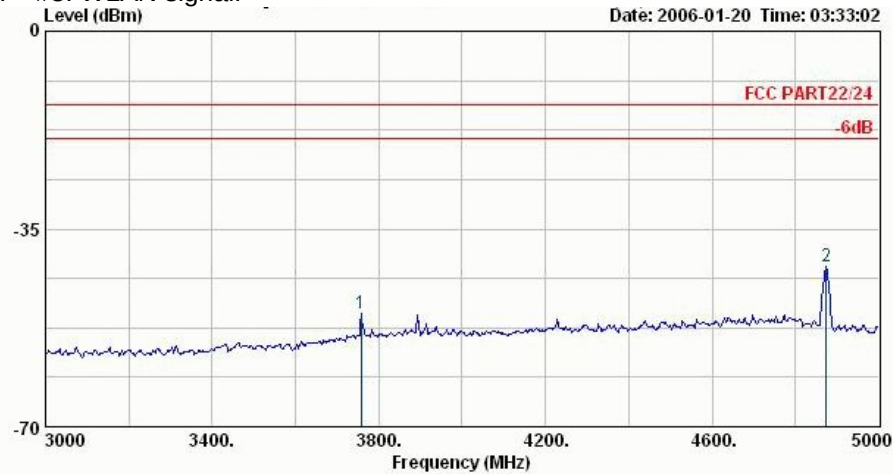


Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

	Over	Limit	ReadAntenna	
Freq	Level	Limit	Line	Level Factor Remark
MHz	dBm	dB	dBm	dB
1 @	1878.00	-36.06	-35.55	-0.51 Peak
2 @	1958.00	-51.61	-50.50	-1.11 Peak
3 @	2438.00	-23.46	-24.46	1.00 Peak

Remark:

1. #1: MS TCH signal.
2. #2: BS TCH signal.
3. #3: WLAN signal.



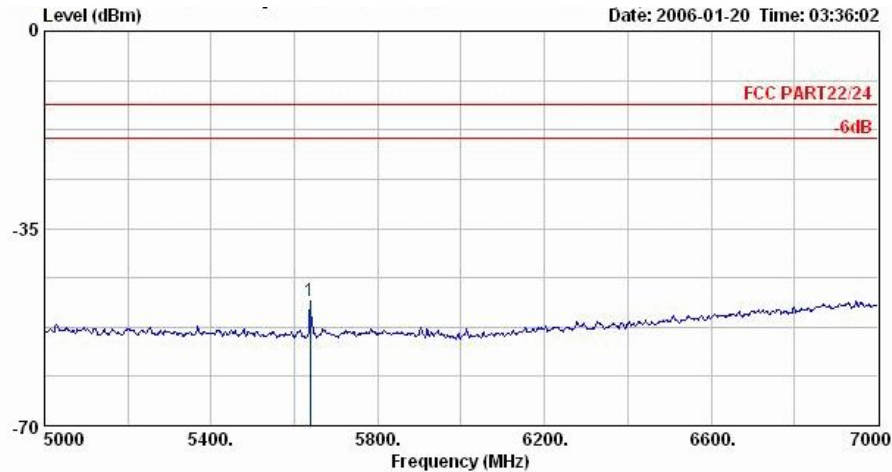
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

	Over	Limit	ReadAntenna	
Freq	Level	Limit	Line	Level Factor Remark
MHz	dBm	dB	dBm	dB
1 @	3758.00	-50.08	-37.08	-13.00 -58.01 7.92 Peak
2 @	4874.00	-41.58	-28.58	-13.00 -52.77 11.19 Peak



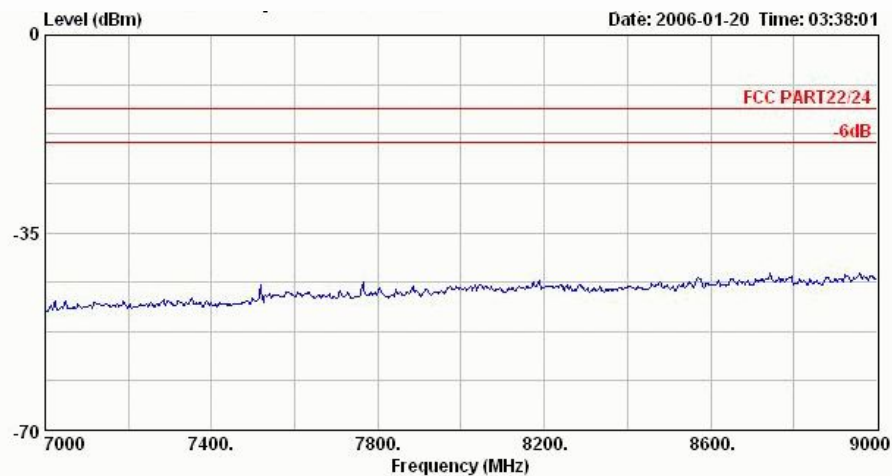
FCC TEST REPORT

Report No. : FG631719-B



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

	Over	Limit	Read	Antenna	
Freq	Level	Limit	Line	Level	Factor
MHz	dBm	dB	dBm	dBm	dB
1 @	5638.00	-47.95	-34.95	-13.00	-57.91 9.97 Peak

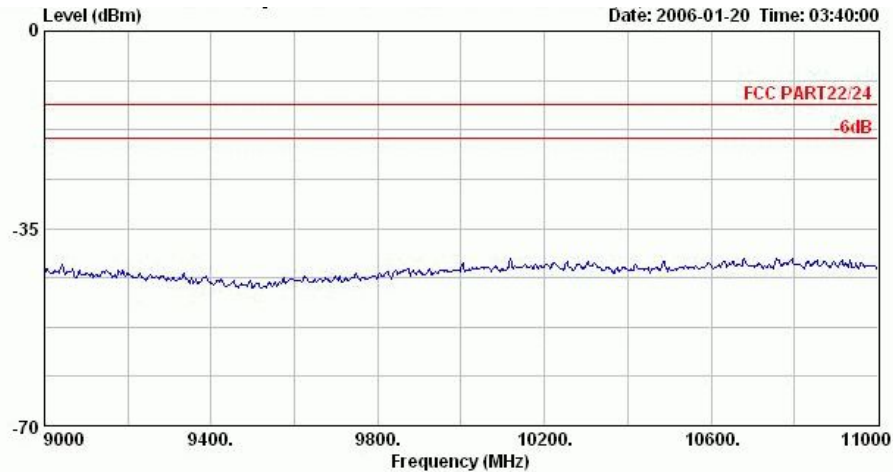


Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

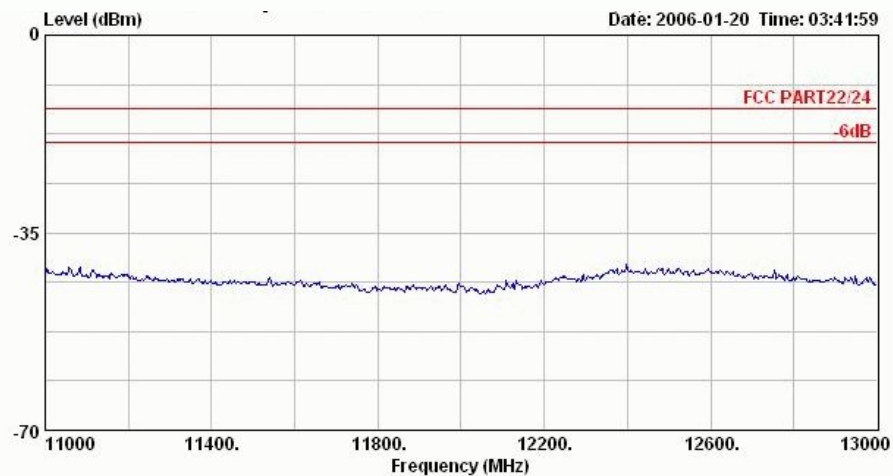


FCC TEST REPORT

Report No. : FG631719-B



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

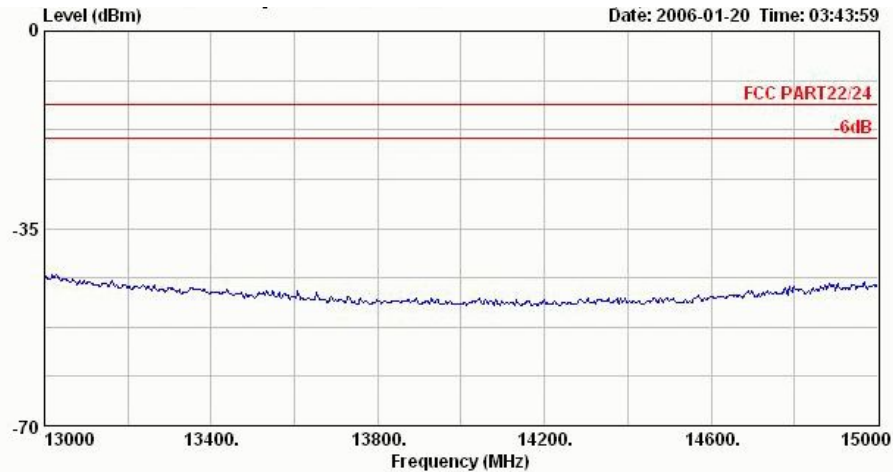


Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

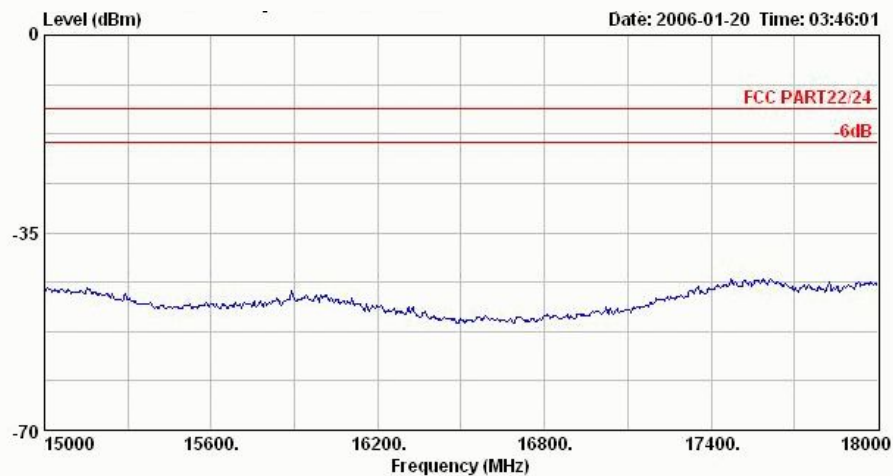


FCC TEST REPORT

Report No. : FG631719-B



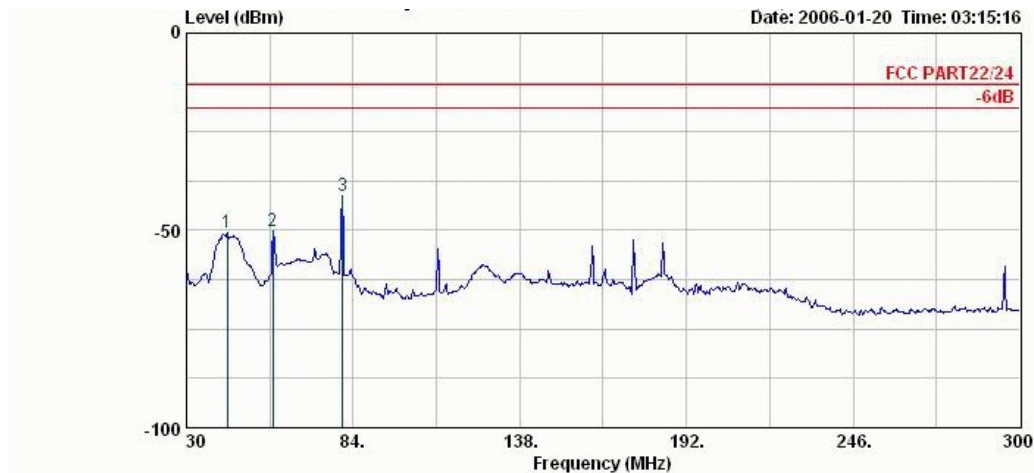
Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

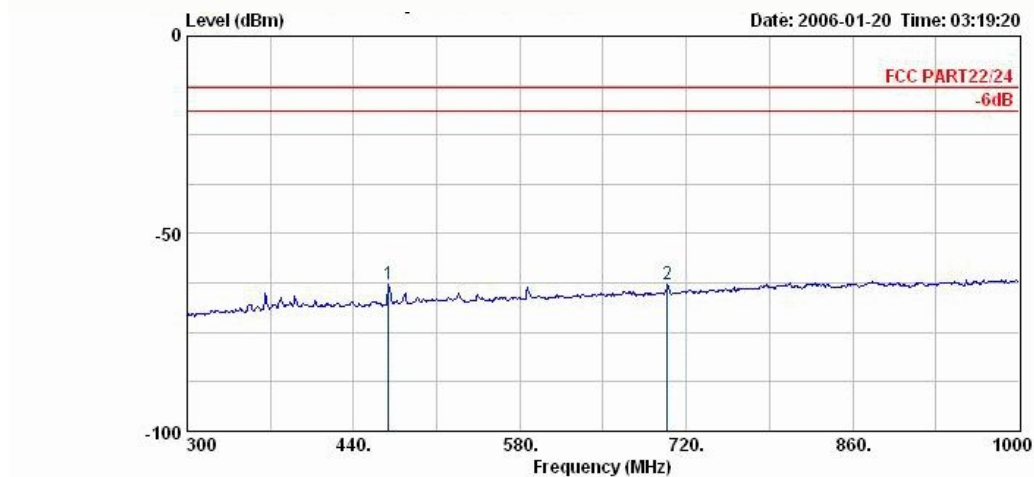


Vertical Polarization



Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

	Freq	Level	Over	Limit	ReadAntenna	
	MHz	dBm	Limit	Line	Level Factor	Remark
	MHz	dBm	dB	dBm	dB	
1 @	43.23	-50.73	-37.73	-13.00	-37.83	-12.90 Peak
2 @	58.08	-50.05	-37.05	-13.00	-36.35	-13.70 Peak
3 @	80.49	-41.17	-28.17	-13.00	-30.69	-10.49 Peak



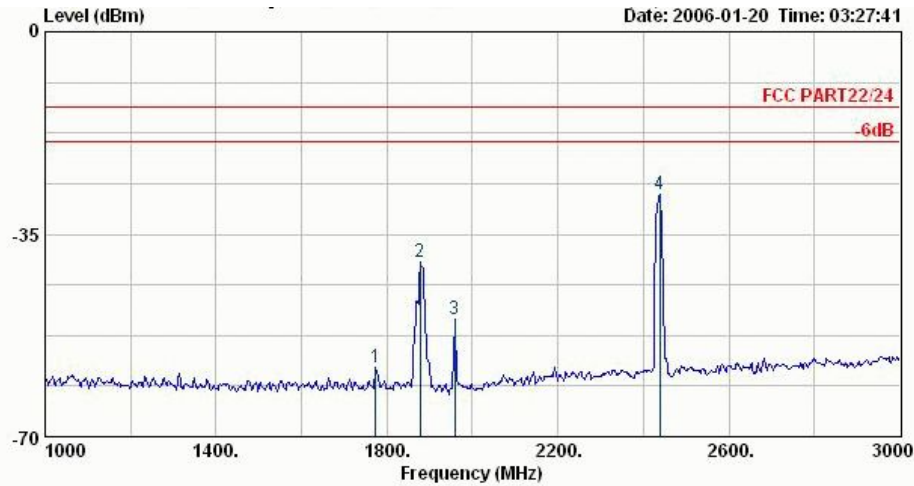
Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

	Freq	Level	Over	Limit	ReadAntenna	
	MHz	dBm	Limit	Line	Level Factor	Remark
	MHz	dBm	dB	dBm	dB	
1 @	469.40	-62.94	-49.94	-13.00	-59.45	-3.50 Peak
2 @	703.90	-62.93	-49.93	-13.00	-62.56	-0.37 Peak



FCC TEST REPORT

Report No. : FG631719-B

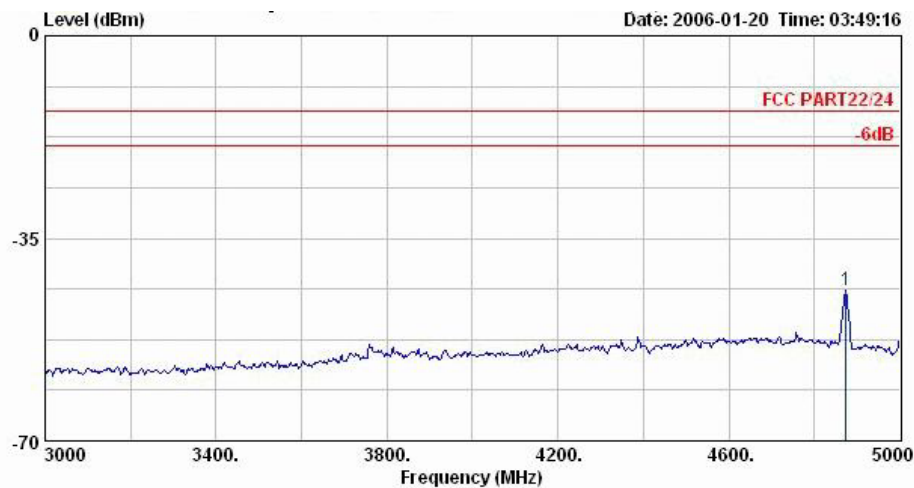


Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

	Freq	Level	Over Limit	Limit Line	ReadAntenna		Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	1774.00	-58.08	-45.08	-13.00	-57.72	-0.36	Peak
2 @	1878.00	-39.81			-39.40	-0.40	Peak
3 @	1958.00	-49.63			-49.03	-0.60	Peak
4 @	2438.00	-28.18			-30.19	2.01	Peak

Remark:

- #2: MS TCH signal.
- #3: BS TCH signal.
- #4: WLAN signal.



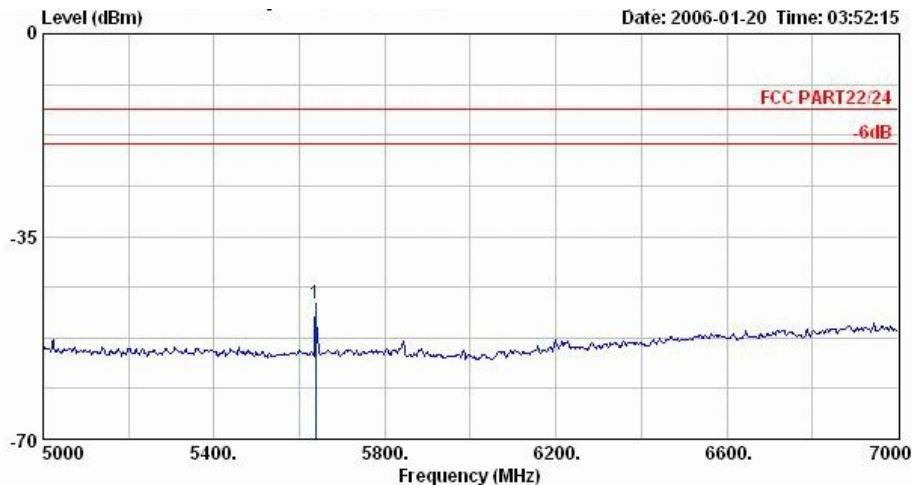
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Remark	
	MHz	dBm	dB	dBm	dBm	dB	
1 @	4874.00	-43.88	-30.88	-13.00	-53.72	9.85	Peak



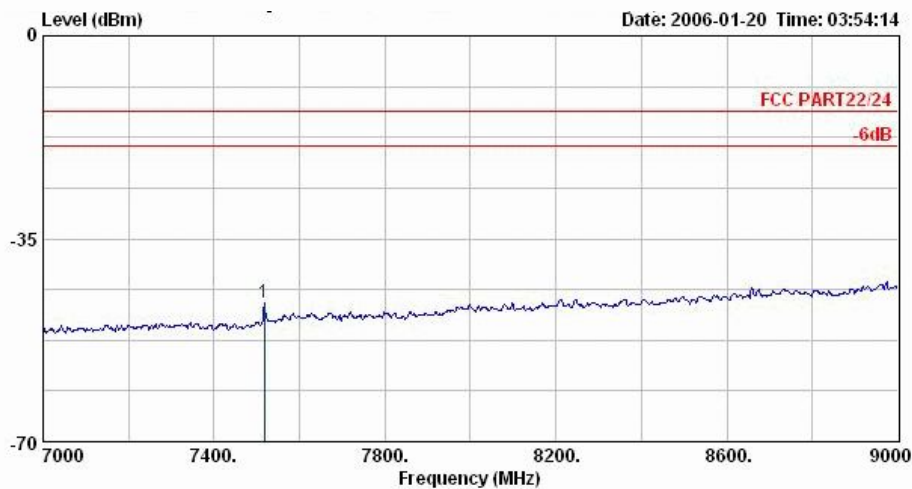
FCC TEST REPORT

Report No. : FG631719-B



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	5638.00	-46.48	-33.48	-13.00	-55.14	8.65	Peak



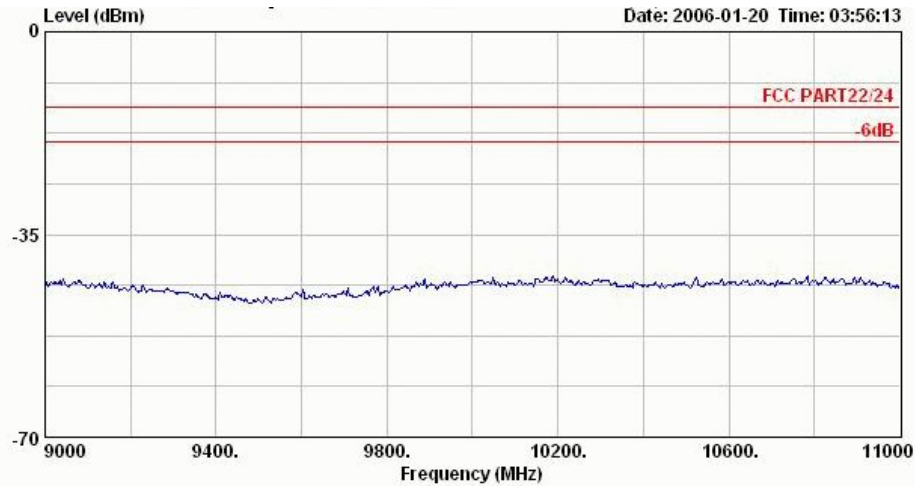
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	7518.00	-46.03	-33.03	-13.00	-59.40	13.37	Peak

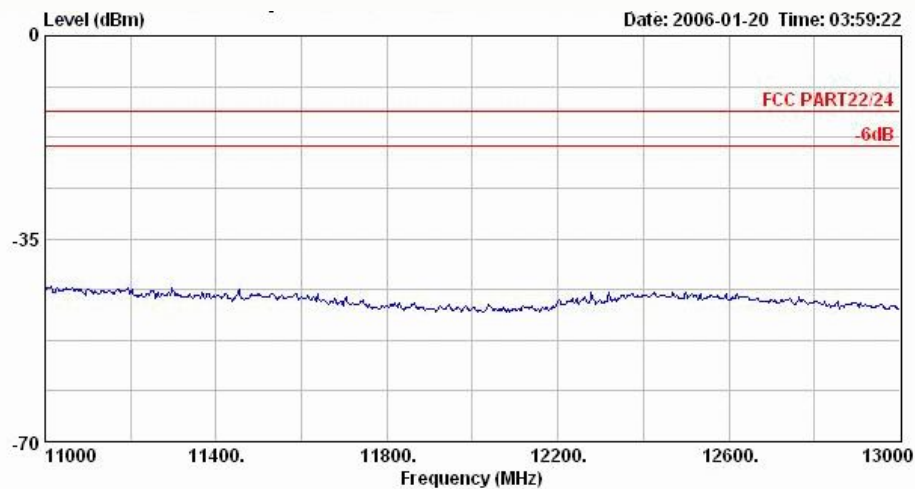


FCC TEST REPORT

Report No. : FG631719-B



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

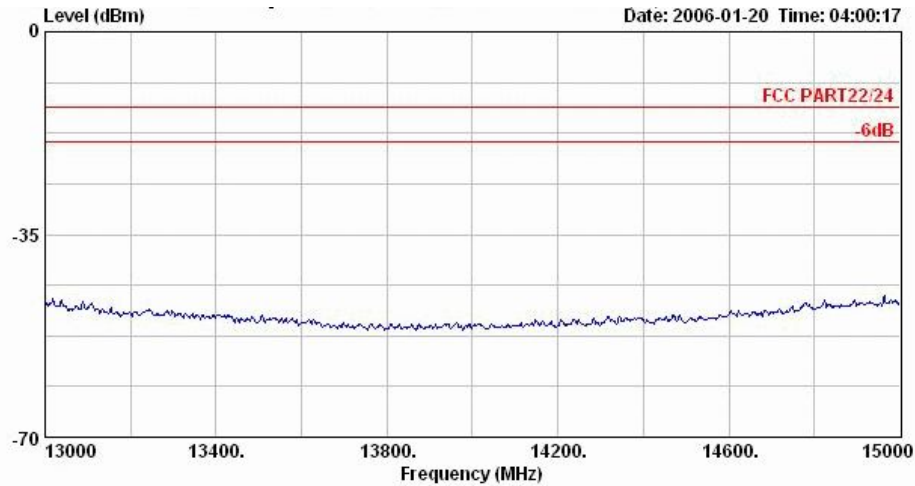


Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

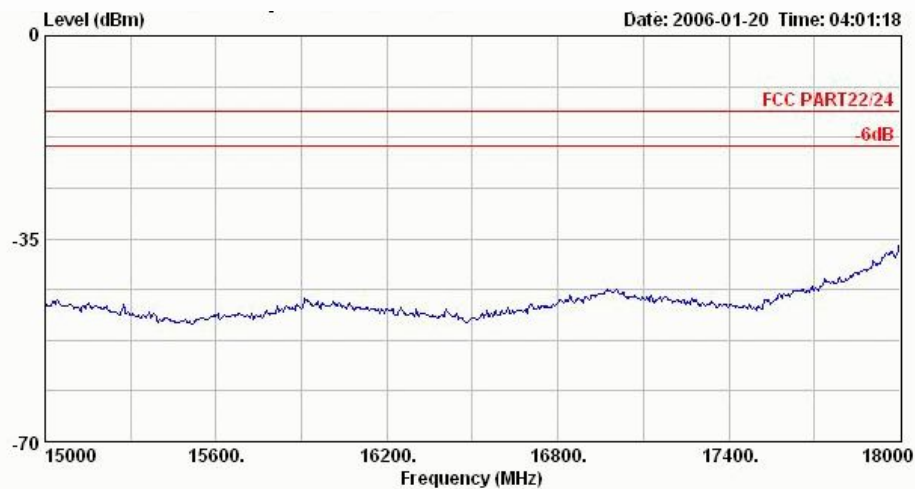


FCC TEST REPORT

Report No. : FG631719-B



Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06

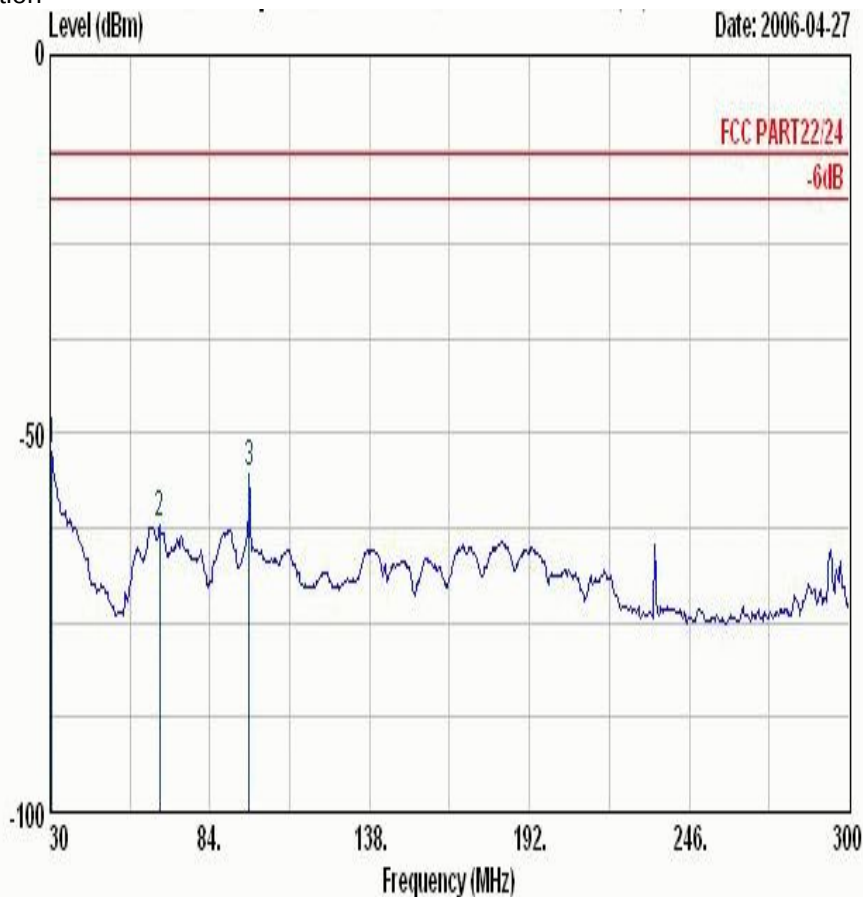


Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) Mobile Phone
Power : 120Vac/60Hz
Model : FG 610605
Memo : PCS1900 Link Mode;Ch661+WLAN Tx_Ch06



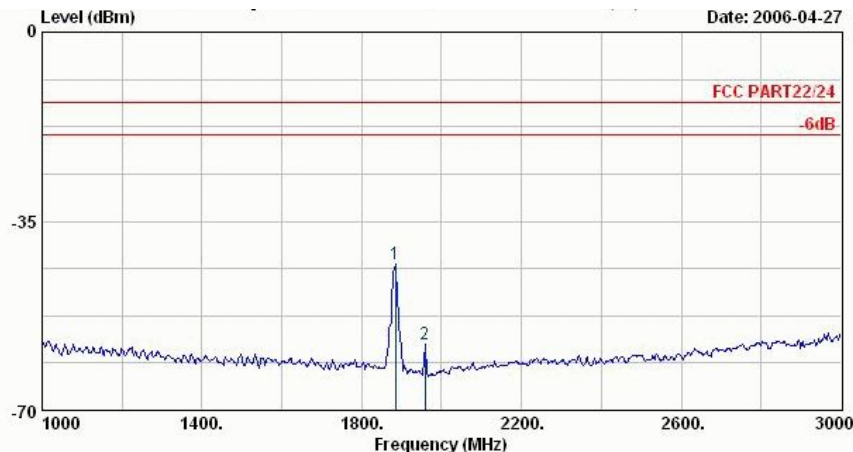
Mode 3

Horizontal Polarization



Site : 03CH06-HY
Condition : LF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) 手機Price list for keypa
: 及外殼改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Remark	Factor
		dBm	dB	dBm	dBm		dB
1	30.54	-52.35	-39.35	-13.00	-52.10	Peak	-0.25
2	66.99	-62.11	-49.11	-13.00	-49.74	Peak	-12.37
3	97.23	-55.41	-42.41	-13.00	-43.16	Peak	-12.25

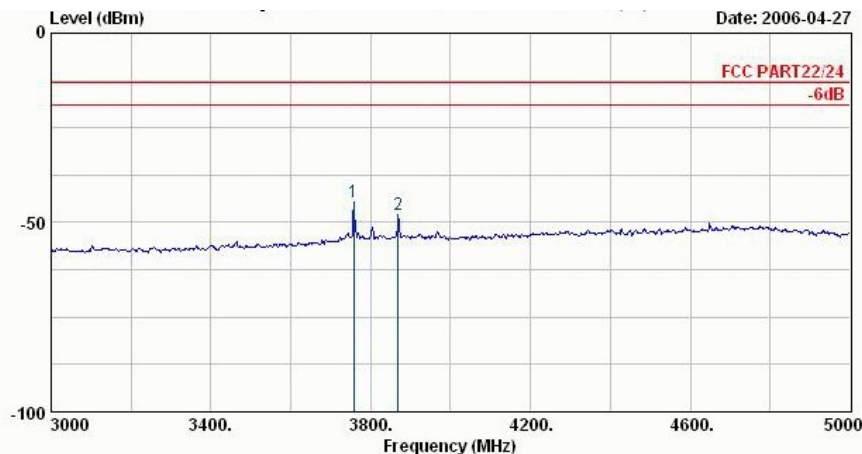


Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) 手機Price list for keypa
及外觀改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H

	Freq	Level	Over	Limit	Read	Remark	Factor
	MHz	dBm	dB	dBm	dBm		dB
1 @	1884.00	-43.00			-42.32	Peak	-0.68
2	1958.00	-57.71			-56.60	Peak	-1.11

Remark:

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



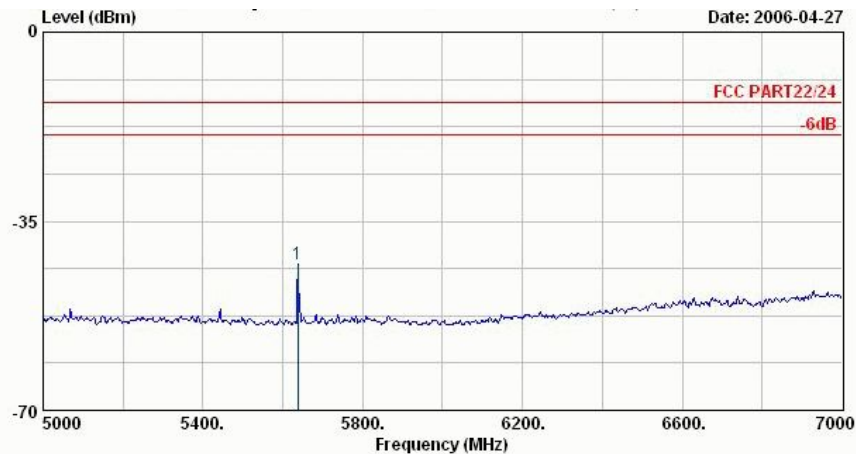
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Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) 手機Price list for keypa
及外觀改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H

	Freq	Level	Over	Limit	Read	Remark	Factor
	MHz	dBm	dB	dBm	dBm		dB
1	3758.00	-44.57	-31.57	-13.00	-52.49	Peak	7.92
2	3868.00	-47.96	-34.96	-13.00	-56.46	Peak	8.50



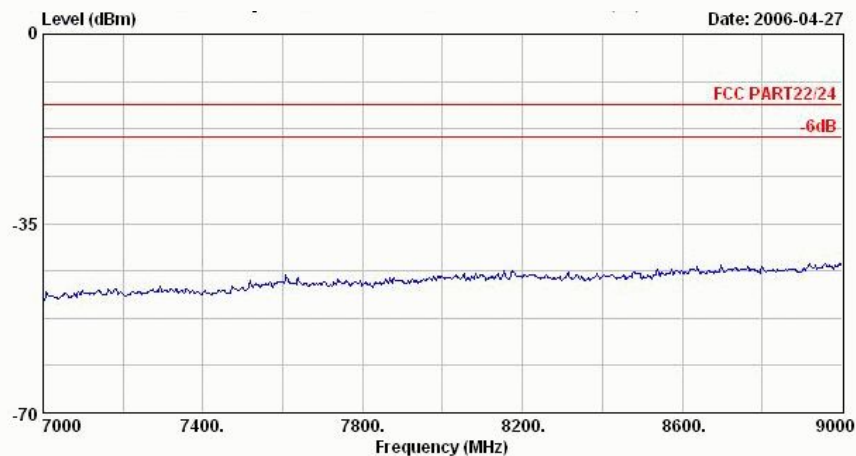
FCC TEST REPORT

Report No. : FG631719-B



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) 手機Price list for keypa
: 及外殼改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	Remark	Factor
1 @	5638.00	-42.91	-29.91	-13.00	-52.88	Peak	9.97

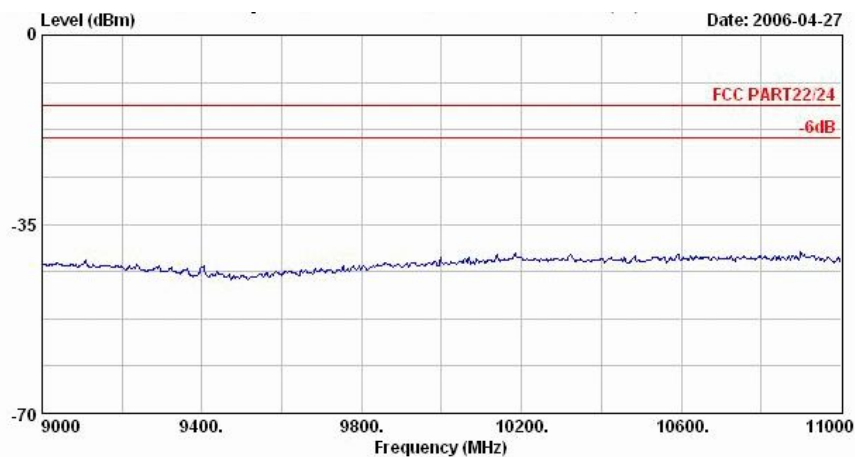


Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) 手機Price list for keypa
: 及外殼改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H

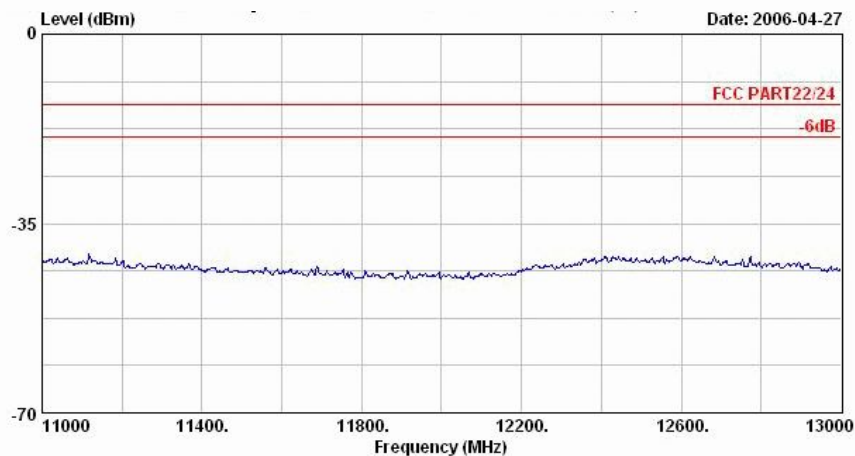


FCC TEST REPORT

Report No. : FG631719-B



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) 手機Price list for keypa
: 及外殼改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H

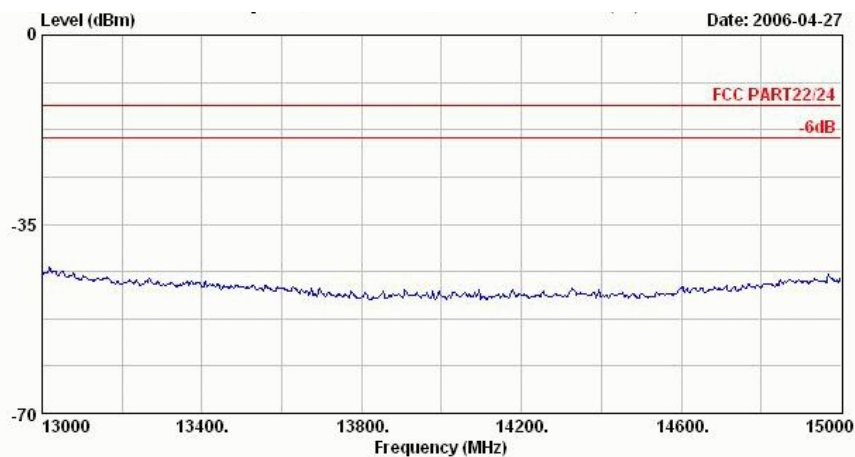


Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) 手機Price list for keypa
: 及外殼改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H

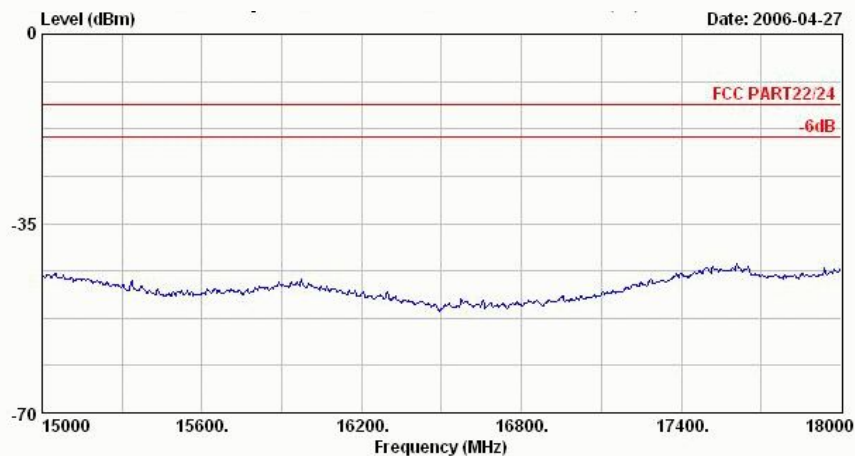


FCC TEST REPORT

Report No. : FG631719-B



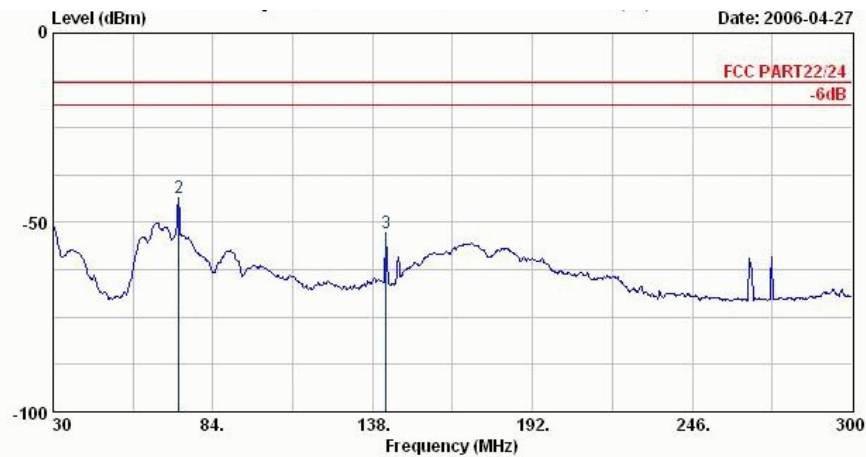
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Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) 手機Price list for keypa
: 及外殼改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H



Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : (900/1800/1900) 手機Price list for keypa
: 及外殼改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H

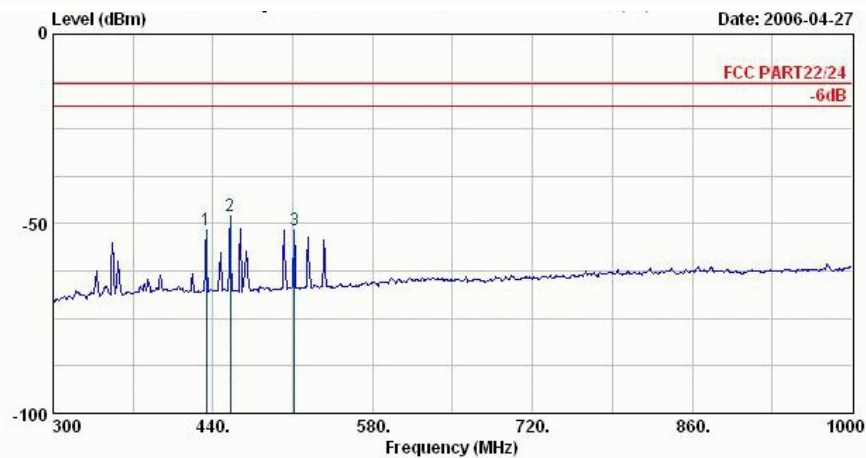


Vertical Polarization



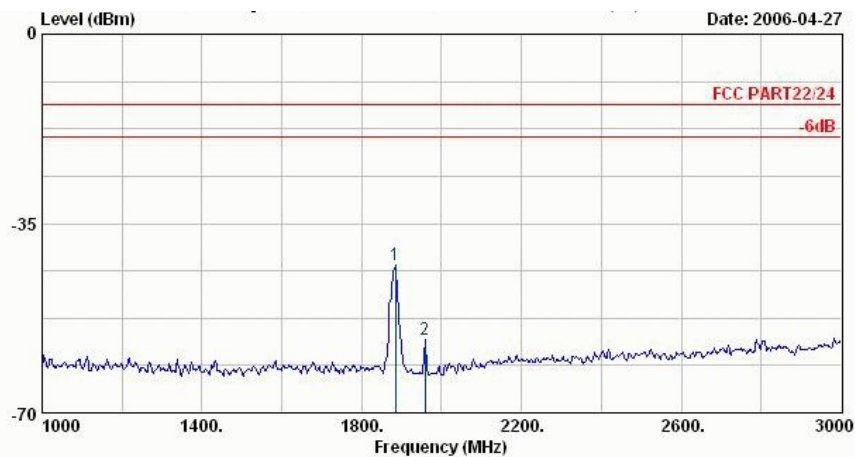
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Condition : LF-SPURIOUS VERTICAL
EUT : (900/1800/1900) 手機Price list for keypa
: 及外殼改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Remark	Factor
			dB	dBm	dBm		dB
1	30.00	-50.95	-37.95	-13.00	-41.88	Peak	-9.07
2	72.39	-43.62	-30.62	-13.00	-32.01	Peak	-11.60
3	142.59	-52.78	-39.78	-13.00	-44.71	Peak	-8.07



Site : 03CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : (900/1800/1900) 手機Price list for keypa
: 及外殼改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Remark	Factor
			dB	dBm	dBm		dB
1	434.40	-51.70	-38.70	-13.00	-47.79	Peak	-3.91
2	455.40	-48.09	-35.09	-13.00	-44.43	Peak	-3.66
3	511.40	-51.56	-38.56	-13.00	-48.56	Peak	-3.00

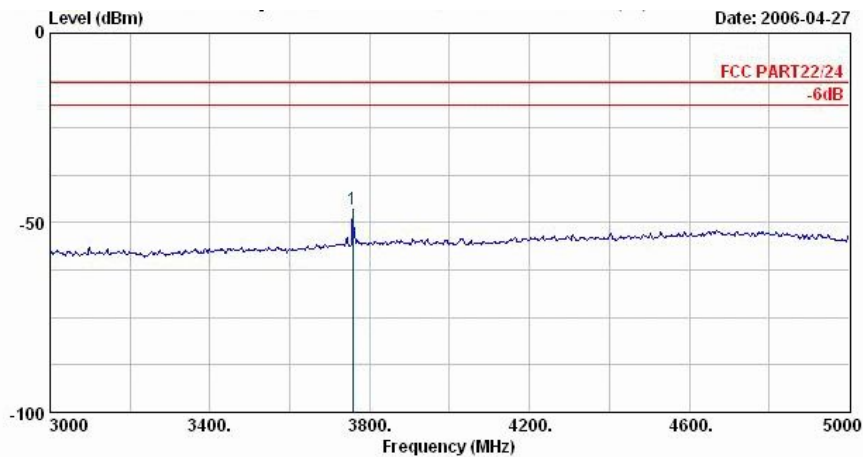


Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) 手機Price list for keypa
: 及外殼改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H

	Freq	Level	Over	Limit	Read	Remark	Factor
	MHz	dBm	dB	dBm	dBm		dB
1 @	1884.00	-42.68			-42.18	Peak	-0.50
2	1958.00	-56.59			-56.00	Peak	-0.60

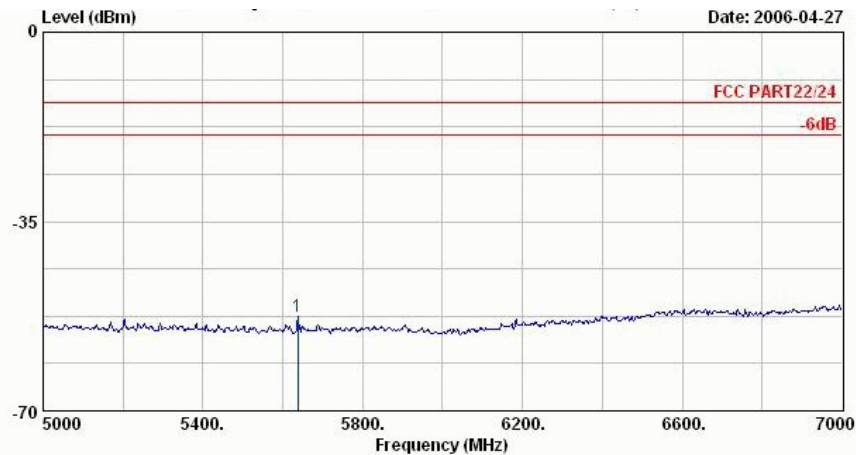
Remark:

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



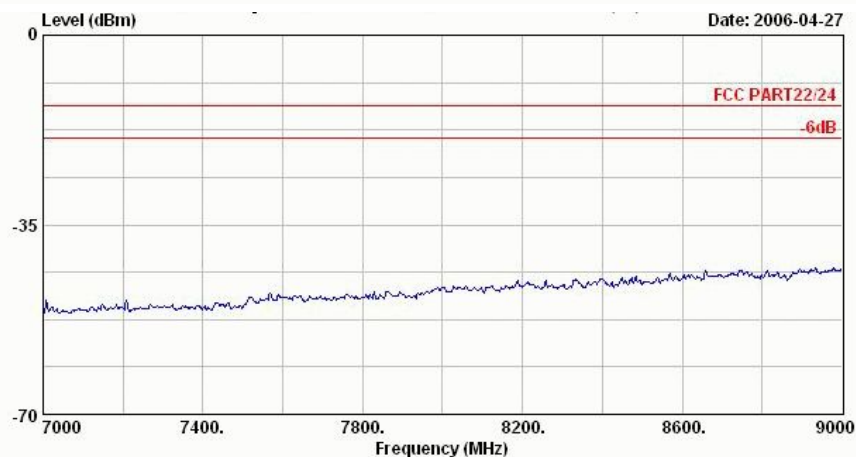
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Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) 手機Price list for keypa
: 及外殼改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H

	Freq	Level	Over	Limit	Read	Remark	Factor
	MHz	dBm	dB	dBm	dBm		dB
1	3758.00	-46.40	-33.40	-13.00	-53.03	Peak	6.64

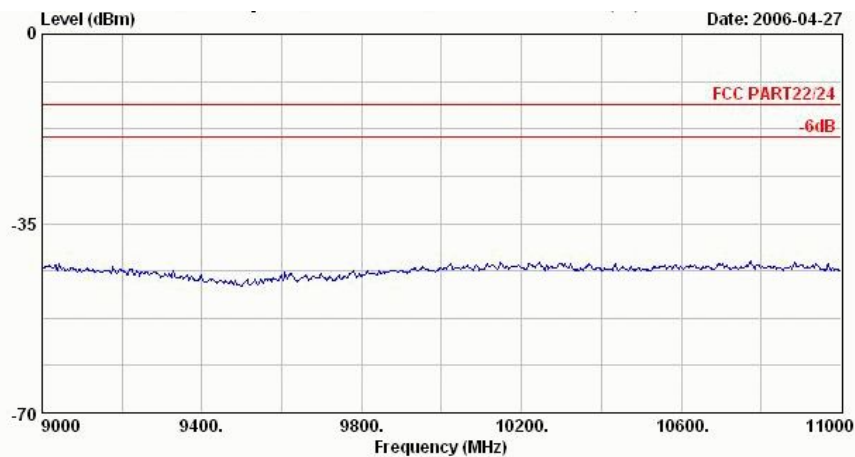


Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) 手機Price list for keypa
: 及外殼改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H

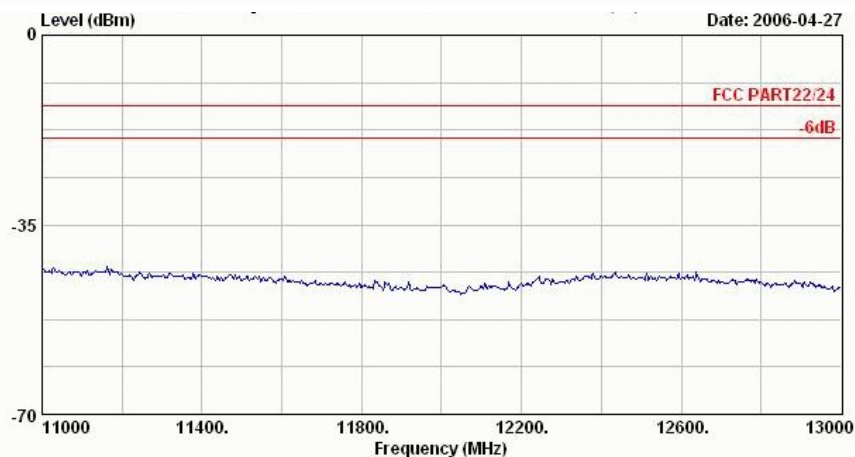
	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Remark	Factor
		dBm	dB	dBm	dBm		dB
1	5638.00	-52.61	-39.61	-13.00	-61.27	Peak	8.65



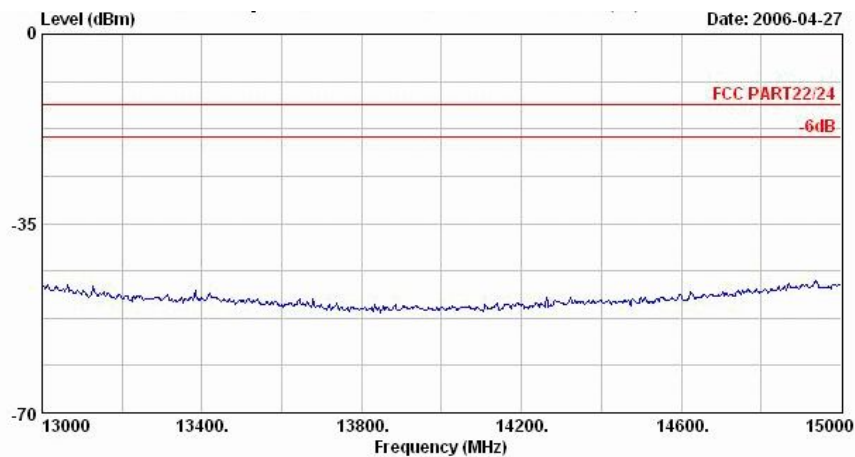
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) 手機Price list for keypa
: 及外殼改金屬殼Change
Power : 120Vac/60Hz
Model : FG 631719
Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H



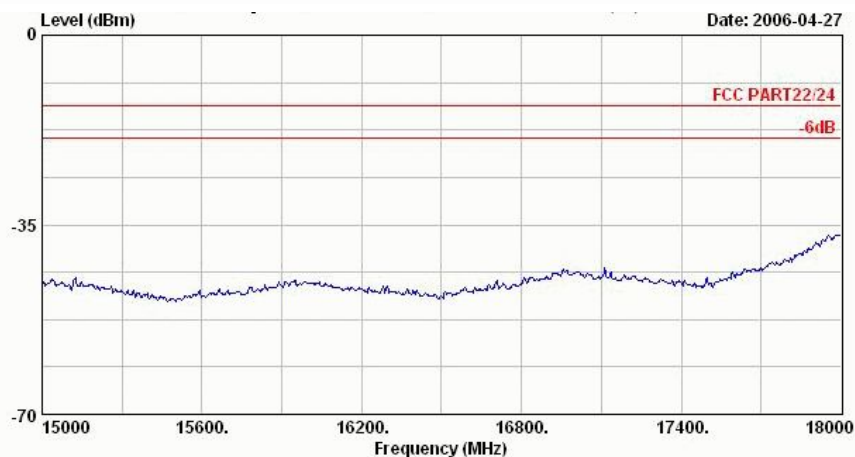
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Condition : HF-SPURIOUS VERTICAL
EUT : (900/1800/1900) 手機Price list for keypa
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Power : 120Vac/60Hz
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Memo : PCS1900 Link Mode;Ch661+Adapter+Earphone
Plane : H

4.7 Frequency Stability (Temperature Variation)

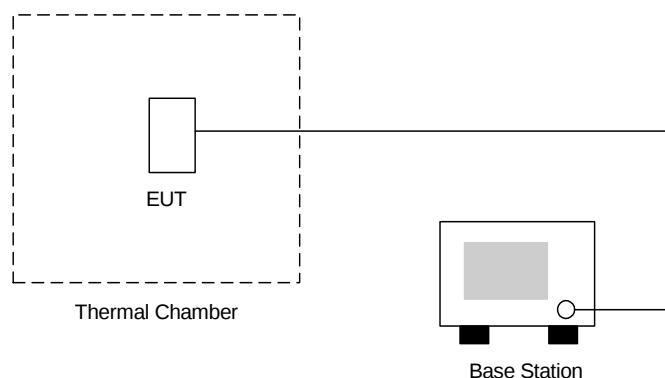
4.7.1 Measurement Instrument

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 : PCS 1900 CH661

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-20	115	0.06	2.5	Passed
-10	107	0.06		
0	104	0.05		
10	100	0.05		
20	96	0.05		
30	95	0.05		
40	111	0.06		
50	114	0.06		

4.8 Frequency Stability (Voltage Variation)

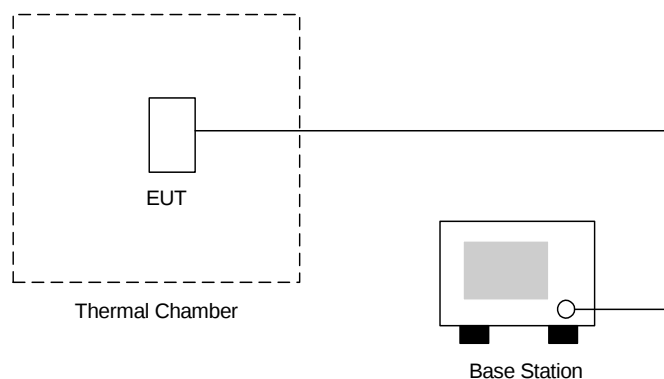
4.8.1 Measurement Instrument

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 : PCS 1900 CH661

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	104	0.05	2.5	Passed
BEP	95	0.05		
4.3	99	0.05		

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	Jul. 25, 2005	Jul. 24, 2006	Radiation (03CH06-HY)
Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jun. 28, 2005	Jun. 27, 2006	Radiation (03CH06-HY)
Controller	CT	SC100	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 22, 2004	Nov. 22, 2006	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Feb. 1, 2005	Feb. 1, 2007	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Jul. 21, 2005	Jul. 20, 2006	Radiation (03CH06-HY)
Amplifier	MITEQ	AMF-6F	997165	26G - 40G	Jul. 21, 2005	Jul. 20, 2006	Radiation (03CH06-HY)
Turn Table	HD	DS 420	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)

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 $U_c(y)$	1.27		
Measuring uncertainty for a level of confidence of 95% $U=2U_c(y)$	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 $U_c(y)$	2.36				
Measuring uncertainty for a level of confidence of 95% $U=2U_c(y)$	4.72				

END OF TEST REPORT