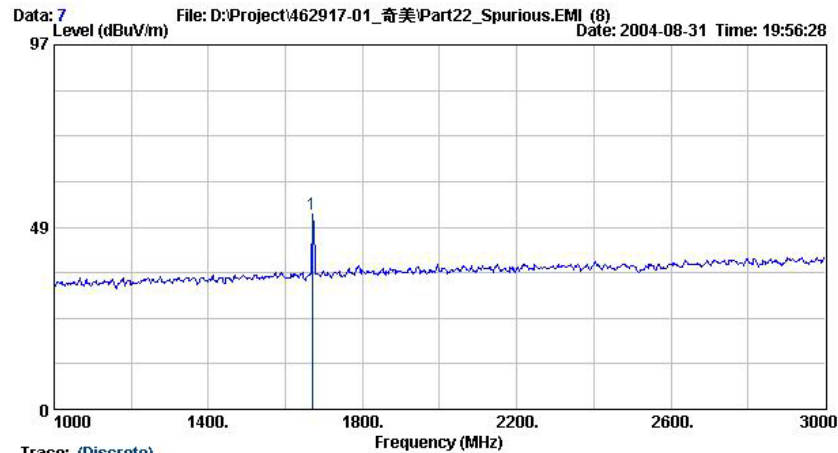


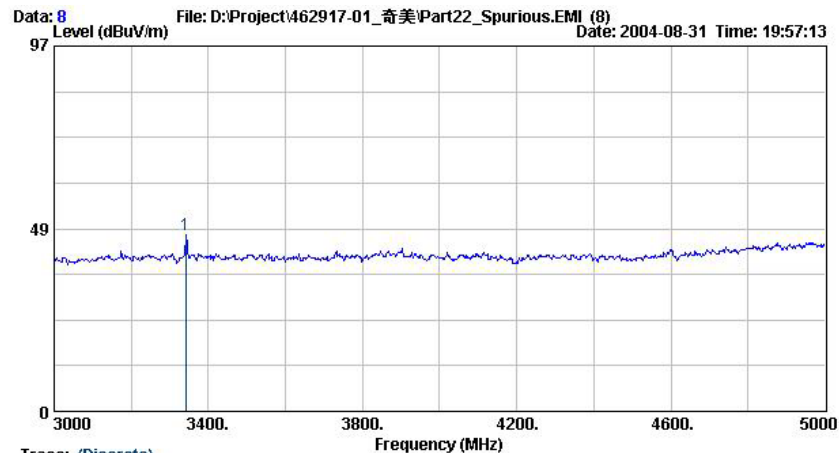
FCC TEST REPORT

Report No. : FG462917-01



Site : 03CH06-HY
 Condition : 3m HF-HORN AH-118 VERTICAL 114cm 353deg
 EUT : GSM/GPRS With Bluetooth
 Power : AC 120V / 60Hz
 Model : Chiai CT-10
 Memo : GSM850 CH189 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Factor	Pos	Pos
					dBuV	dB/m	dB	cm	deg
1 @	1670.00	51.90	-----	-----	67.05	26.33	44.24	2.76	114 353



Site : 03CH06-HY
 Condition : 3m HF-HORN AH-118 VERTICAL 114cm 0deg
 EUT : GSM/GPRS With Bluetooth
 Power : AC 120V / 60Hz
 Model : Chiai CT-10
 Memo : GSM850 CH189 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Factor	Pos	Pos
					dBuV	dB/m	dB	cm	deg
1 @	3342.00	46.93	-----	-----	57.39	30.00	44.38	3.92	114 0

- Mark:
 Frequency from 5GHz to 19GHz, the emission emitted by the EUT is too low to be measured.

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 FAX : 886-2-2696-2255

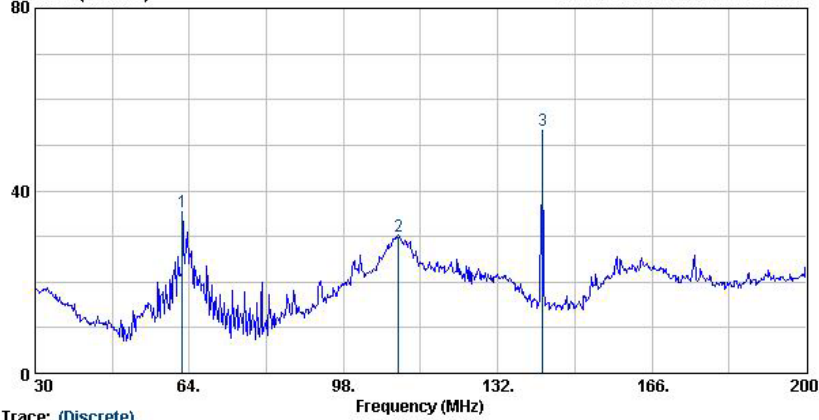
FCC ID QDJ-0406CHAI1
 Page No. 51 of 66
 Issued Date Sep. 08, 2004

FCC TEST REPORT

Report No. : FG462917-01

PCS 1900, Horizontal Polarization

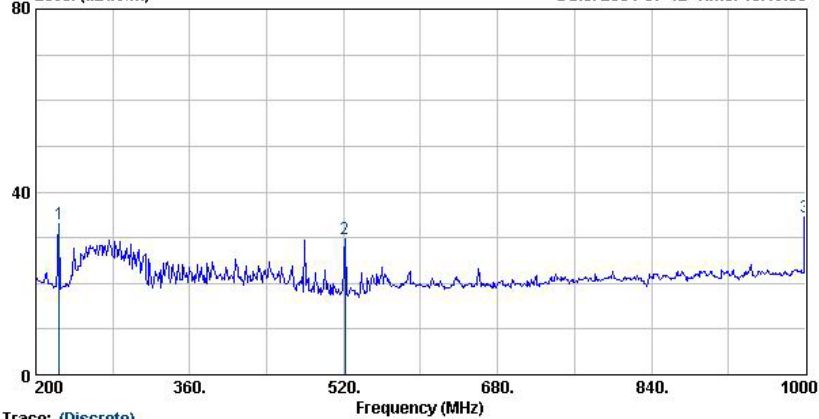
Data: 1 File: D:\Project\462917-01_奇美\Part24_Spurious.EML (15) Date: 2004-07-12 Time: 15:23:22



Trace: (Discrete)
Site : 03CH06
Condition : 3m BI LOG 2004 0629 HORIZONTAL
eut : GSM/GPRS With Bluetooth
power : AC 120V / 60Hz
model : Chiai CT-10
memo : PCS CH661 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg
1	62.47	35.36	-----	-----	61.88	5.23	32.43	0.67	---
2	110.07	30.18	-----	-----	49.86	11.50	32.11	0.93	---
3	141.86	53.20	-----	-----	73.72	10.74	32.27	1.03	---

Data: 2 File: D:\Project\462917-01_奇美\Part24_Spurious.EML (15) Date: 2004-07-12 Time: 15:19:30



Trace: (Discrete)
Site : 03CH06
Condition : 3m BI LOG 2004 0629 HORIZONTAL
eut : GSM/GPRS With Bluetooth
power : AC 120V / 60Hz
model : Chiai CT-10
memo : PCS CH661 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg
1	224.00	32.98	-----	-----	54.53	8.94	31.81	1.32	---
2	521.60	29.74	-----	-----	42.22	16.92	31.54	2.14	---
3	1000.00	34.58	-----	-----	41.34	21.10	31.07	3.20	---

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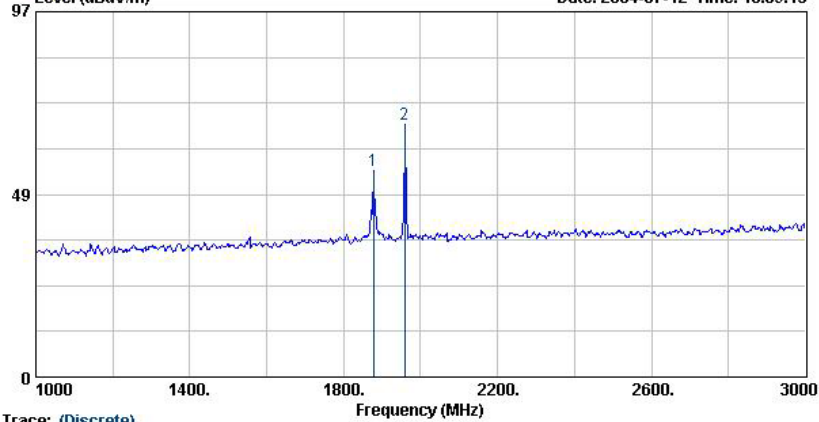
Page No. 52 of 66

Issued Date Sep. 08, 2004

FCC TEST REPORT

Report No. : FG462917-01

Data: 3 File: D:\Project\462917-01_奇美\Part24_Spurious.EMI (15) Date: 2004-07-12 Time: 18:09:15



Trace: (Discrete)

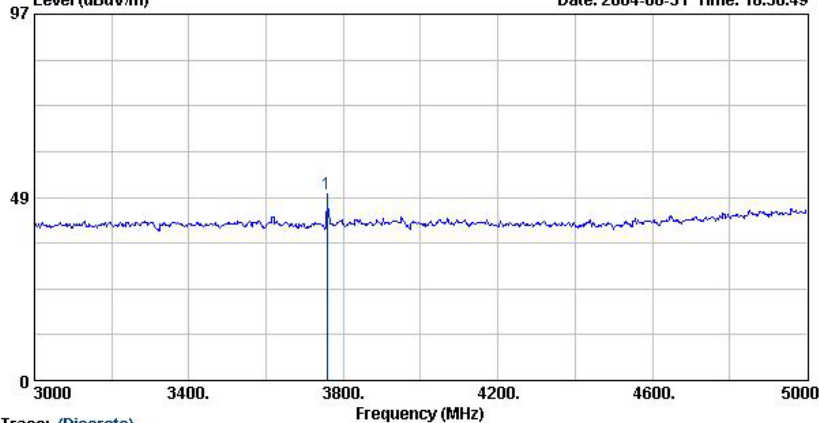
Site : 03CH06
Condition : 3m HF-HORN AH-118 HORIZONTAL
eut : GSM/GPRS With Bluetooth
power : AC 120V / 60Hz
model : Chiai CT-10
memo : PCS CH661 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg
1	1878.00	54.95	-----	-----	69.00	27.42	44.40	2.93	---
2 @	1958.00	66.94	-----	-----	80.63	27.75	44.46	3.02	---

Remark :

- #1 : Fundamental Signal
- #2 : BCCH Signal

Data: 4 File: D:\Project\462917-01_奇美\Part24_Spurious.EMI (14) Date: 2004-08-31 Time: 18:36:49



Trace: (Discrete)

Site : 03CH06-HY
Condition : 3m HF-HORN AH-118 HORIZONTAL 0cm 0deg
EUT : GSM/GPRS With Bluetooth
Power : AC 120V / 60Hz
Model : Chiai CT-10
Memo : PCS CH661 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg
1 @	3758.00	49.35	-----	-----	59.62	30.26	44.75	4.22	110 315

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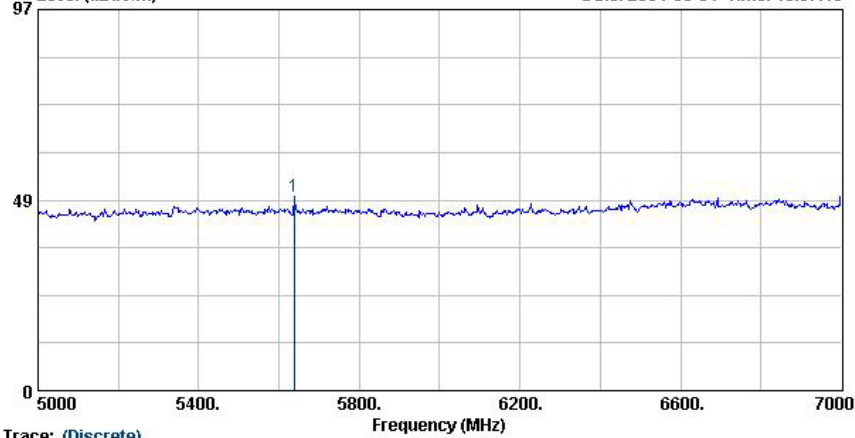
Page No. 53 of 66

Issued Date Sep. 08, 2004

FCC TEST REPORT

Report No. : FG462917-01

Data: 5 File: D:\Project\462917-01_奇美\Part24_Spurious.EMI (14) Date: 2004-08-31 Time: 18:37:43
Level (dBuV/m)

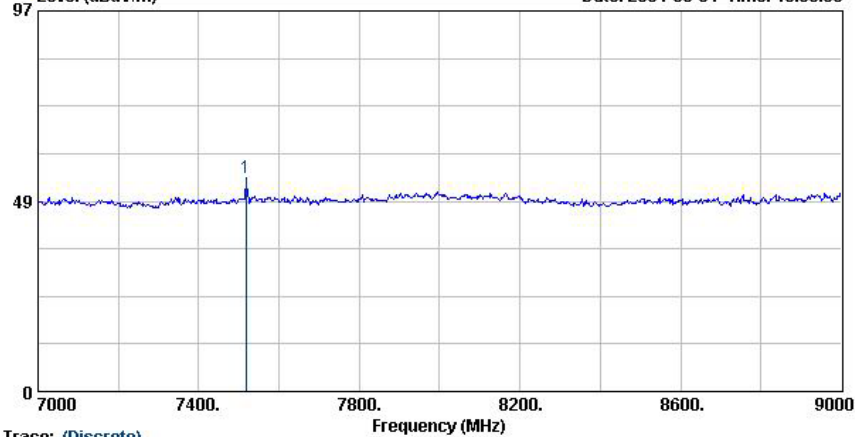


Trace: (Discrete)

Site : 03CH06-HY
Condition : 3m HF-HORN AH-118 HORIZONTAL 114cm 360deg
EUT : GSM/GPRS With Bluetooth
Power : AC 120V / 60Hz
Model : Chiai CT-10
Memo : PCS CH661 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg
1	5638.00	49.54	-----	-----	56.74	34.01	46.55	5.35	114 360

Data: 6 File: D:\Project\462917-01_奇美\Part24_Spurious.EMI (14) Date: 2004-08-31 Time: 18:38:58
Level (dBuV/m)



Trace: (Discrete)

Site : 03CH06-HY
Condition : 3m HF-HORN AH-118 HORIZONTAL 114cm 0deg
EUT : GSM/GPRS With Bluetooth
Power : AC 120V / 60Hz
Model : Chiai CT-10
Memo : PCS CH661 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg
1	7518.00	54.54	-----	-----	58.51	36.03	46.19	6.19	114 0

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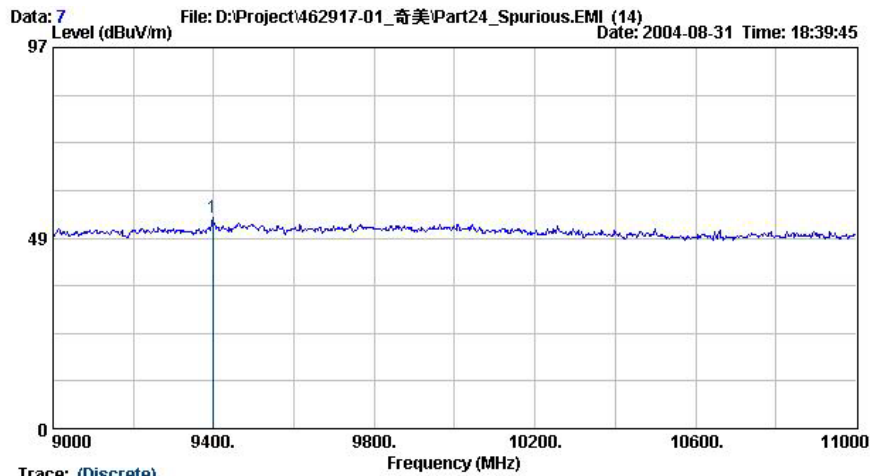
FCC ID QDJ-0406CHAI1

Page No. 54 of 66

Issued Date Sep. 08, 2004

FCC TEST REPORT

Report No. : FG462917-01



Site : 03CH06-HY
 Condition : 3m HF-HORN AH-118 HORIZONTAL 114cm 360deg
 EUT : GSM/GPRS With Bluetooth
 Power : AC 120V / 60Hz
 Model : Chiai CT-10
 Memo : PCS CH661 Link mode

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Preamp Factor	Cable Loss	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg
1	9398.00	53.61	-----	-----	52.64	37.79	44.62	7.80	114 360

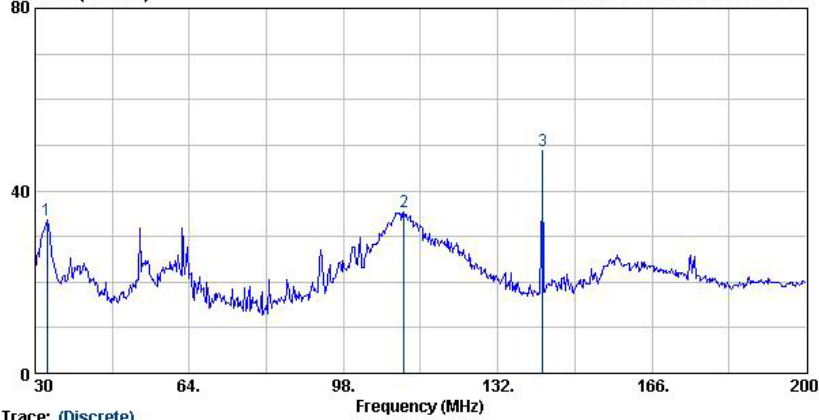
- Mark:
 Frequency from 11GHz to 19GHz, the emission emitted by the EUT is too low to be measured.

FCC TEST REPORT

Report No. : FG462917-01

PCS 1900, Vertical Polarization

Data: 8 File: D:\Project\462917-01_奇美\Part24_Spurious.EMI (15) Date: 2004-07-12 Time: 15:06:37

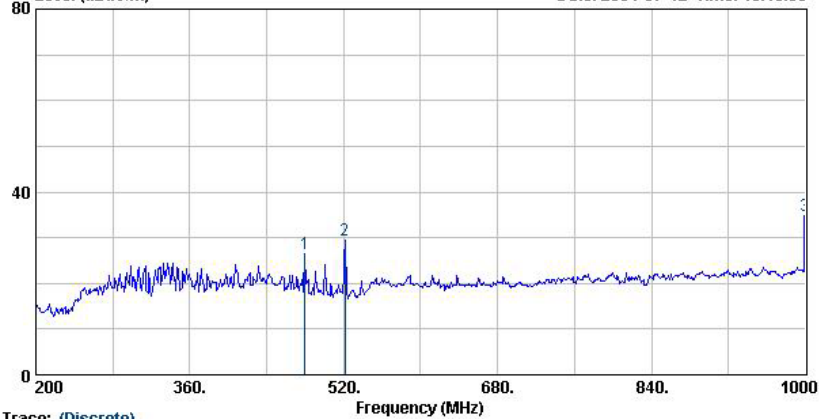


Trace: (Discrete)

Site : 03CH06
Condition : 3m BI LOG 2004 0629 VERTICAL
eut : GSM/GPRS With Bluetooth
power : AC 120V / 60Hz
model : Chai CT-10
memo : PCS CH661 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg
1	32.55	33.66	-----	-----	49.08	16.20	32.13	0.52	---
2	111.26	35.51	-----	-----	55.15	11.52	32.09	0.93	---
3	141.86	48.71	-----	-----	69.22	10.74	32.27	1.03	---

Data: 9 File: D:\Project\462917-01_奇美\Part24_Spurious.EMI (15) Date: 2004-07-12 Time: 15:13:08



Trace: (Discrete)

Site : 03CH06
Condition : 3m BI LOG 2004 0629 VERTICAL
eut : GSM/GPRS With Bluetooth
power : AC 120V / 60Hz
model : Chai CT-10
memo : PCS CH661 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg
1	480.00	26.46	-----	-----	39.19	17.09	31.84	2.02	---
2	521.60	29.37	-----	-----	41.85	16.92	31.54	2.14	---
3	1000.00	34.78	-----	-----	41.55	21.10	31.07	3.20	---

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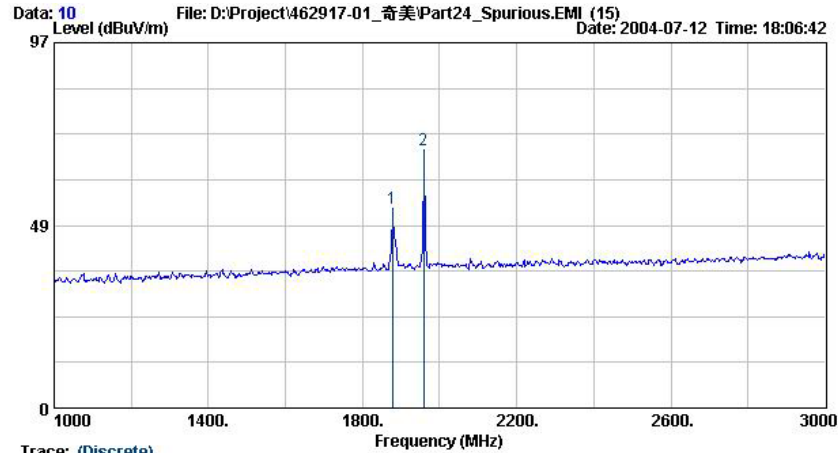
FCC ID QDJ-0406CHAI1

Page No. 56 of 66

Issued Date Sep. 08, 2004

FCC TEST REPORT

Report No. : FG462917-01

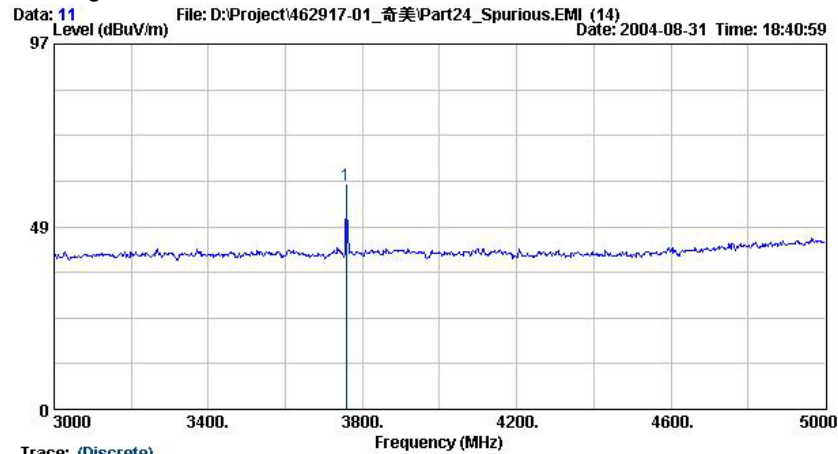


Site : 03CH06
 Condition : 3m HF-HORN AH-118 VERTICAL
 eut : GSM/GPRS With Bluetooth
 power : AC 120V / 60Hz
 model : Chiai CT-10
 memo : PCS CH661 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg
1	1878.00	52.95	-----	-----	67.00	27.42	44.40	2.93	---
2 @	1958.00	68.40	-----	-----	82.09	27.75	44.46	3.02	---

Remark :

- #1 : Fundamental Signal
- #2 : BCCH Signal



Site : 03CH06-HY
 Condition : 3m HF-HORN AH-118 VERTICAL 114cm 0deg
 EUT : GSM/GPRS With Bluetooth
 Power : AC 120V / 60Hz
 Model : Chiai CT-10
 Memo : PCS CH661 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg
1 @	3758.00	59.46	-----	-----	69.73	30.26	44.75	4.22	114 0

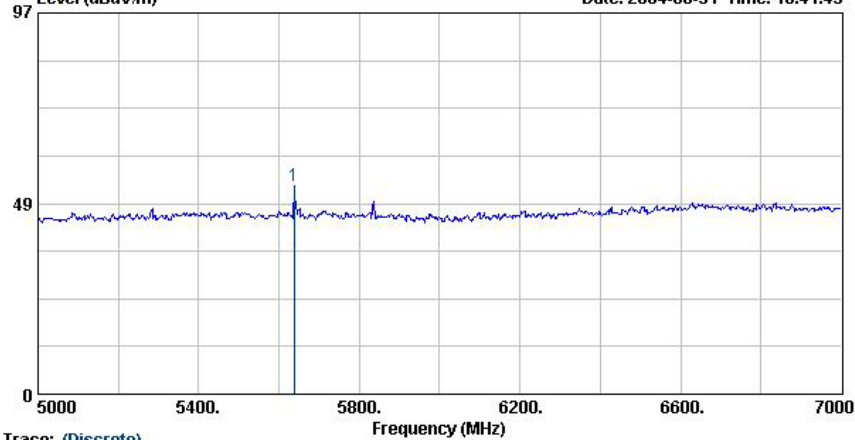
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FCC ID : QDJ-0406CHAI1
 Page No. : 57 of 66
 Issued Date : Sep. 08, 2004

FCC TEST REPORT

Report No. : FG462917-01

Data: 12 File: D:\Project\462917-01_奇美\Part24_Spurious.EMI (14) Date: 2004-08-31 Time: 18:41:45

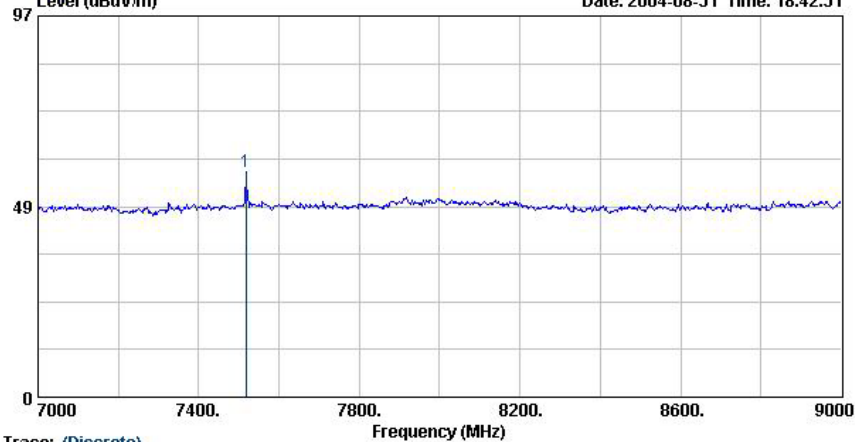


Trace: (Discrete)

Site : 03CH06-HY
Condition : 3m HF-HORN AH-118 VERTICAL 114cm 360deg
EUT : GSM/GPRS With Bluetooth
Power : AC 120V / 60Hz
Model : Chiai CT-10
Memo : PCS CH661 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm
1	5638.00	52.89	-----	-----	60.08	34.01	46.55	5.35	114
									360

Data: 13 File: D:\Project\462917-01_奇美\Part24_Spurious.EMI (14) Date: 2004-08-31 Time: 18:42:31



Trace: (Discrete)

Site : 03CH06-HY
Condition : 3m HF-HORN AH-118 VERTICAL 114cm 0deg
EUT : GSM/GPRS With Bluetooth
Power : AC 120V / 60Hz
Model : Chiai CT-10
Memo : PCS CH661 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm
1 @	7518.00	57.46	-----	-----	61.43	36.03	46.19	6.19	114
									0

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FAX : 886-2-2696-2255

FCC ID QDJ-0406CHAI1

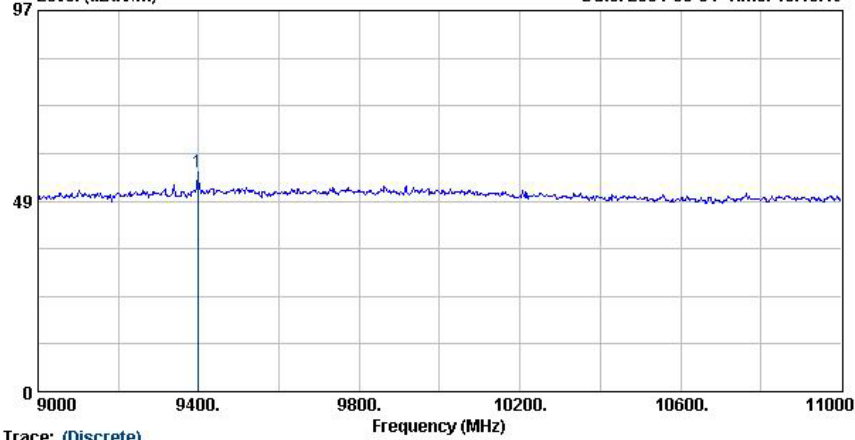
Page No. 58 of 66

Issued Date Sep. 08, 2004

FCC TEST REPORT

Report No. : FG462917-01

Data: 14 File: D:\Project\462917-01_奇美\Part24_Spurious.EMI (14) Date: 2004-08-31 Time: 18:43:19
Level (dBuV/m)



Trace: (Discrete)

Site : 03CH06-HY
Condition : 3m HF-HORN AH-118 VERTICAL 114cm 360deg
EUT : GSM/GPRS With Bluetooth
Power : AC 120V / 60Hz
Model : Chiai CT-10
Memo : PCS CH661 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Factor	Loss	Pos
					dBuV	dB/m	dB	dB	cm
1 @	9398.00	55.87	-----	-----	54.89	37.79	44.62	7.80	114
									360

- Mark:
Frequency from 11GHz to 19GHz, the emission emitted by the EUT is too low to be measured.

Name of Test: Frequency Stability (Temperature Variation)

Specification: 47 CFR 2.1055(a)(1)

Test Conditions: As Indicated

Test Equipment: As per previous page

Measurement Procedure

1. The EUT and test equipment were set up as shown on the following page.
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. Measurement Results: Attached

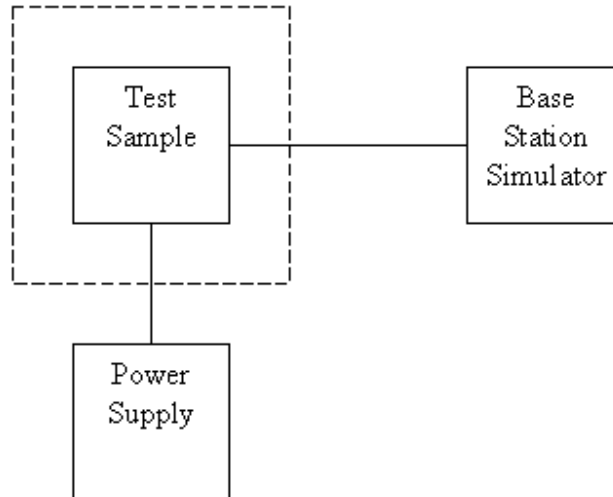


Tested By:

Tim Kao

Transmitter Test Set-Up

Frequency Stability: Temperature Variation
Frequency Stability: Voltage Variation



Asset	Model Name	S/N
Temperature & Humidity Controller	P-9000	612
AC/DC Power Source	HPA-500W	HPA0100024
Base Station Simulator	CMU200	102278
Base Station Simulator	E5515C	GB43460754

FCC TEST REPORTReport No. : FG462917-01

Name of Test: Frequency Stability (Temperature Variation)**GSM 850 (Channel 189)**

Temperature(°C)	Change, Hz	Change, ppm
-30	30	0.02
-20	42	0.02
-10	-38	-0.02
0	-30	-0.02
10	-35	-0.02
20	22	0.01
30	47	0.02
40	-34	-0.02
50	-29	-0.02

PCS 1900 (Channel 611)

Temperature(°C)	Change, Hz	Change, ppm
-30	31	0.02
-20	46	0.02
-10	35	0.02
0	-30	-0.02
10	-35	-0.02
20	22	0.01
30	42	0.02
40	-34	-0.02
50	-36	-0.02

FCC TEST REPORT

Report No. : FG462917-01

Name of Test: Frequency Stability (Voltage Variation)

Specification: 47 CFR 2.1055 (b)(1)

Test Equipment: As per previous page

Measurement Procedure

1. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ and connected as for "Frequency Stability - Temperature Variation" test.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

Results: Frequency Stability (Voltage Variation)

GSM 850 (Channel 189)

Nominal Value (Voltage) = 3.7V

Battery End Point = 3.2V

Voltage(Volt)	Change, Hz	Change, ppm
3.7	47	0.02
BEP	51	0.03
4.3	43	0.02

PCS 1900 (Channel 611)

Nominal Value (Voltage) = 3.7V

Voltage(Volt)	Change, Hz	Change, ppm
3.7	42	0.02
BEP	38	0.02
4.3	44	0.02

Limit: Must remain within authorized frequency block.



Tested By:

Tim Kao

SPORTON International Inc.

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FCC ID QDJ-0406CHAI1

Page No. 63 of 66

Issued Date Sep. 08, 2004

FCC TEST REPORT

Report No. : FG462917-01

Antenna Factor & Cable Loss

Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)	Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)
30	15.35	4.50	1000	24.10	3.92
35	13.63	1.13	2000	27.40	5.66
40	11.11	1.18	3000	30.00	7.20
45	10.59	1.26	4000	32.60	9.36
50	6.47	1.31	5000	33.40	9.16
55	5.83	1.34	6000	34.20	10.70
60	5.18	1.43	7000	35.30	12.16
65	4.81	1.52	8000	36.90	13.12
70	4.43	1.56	9000	38.10	13.81
75	5.10	1.57	10000	39.00	14.83
80	5.91	1.60	11000	38.60	15.83
85	7.33	1.66	12000	39.50	17.11
90	8.74	1.75	13000	39.30	17.62
95	9.05	1.76	14000	41.60	18.37
100	9.36	1.83	15000	40.60	19.10
110	9.65	1.86	16000	37.20	19.72
120	9.97	1.92	17000	40.20	21.98
130	10.51	2.00	18000	48.90	21.22
140	10.32	2.11	19000	37.60	23.90
150	9.42	2.18	20000	37.30	24.07
160	8.09	2.22	21000	37.00	25.49
170	7.43	2.26	22000	38.00	24.92
180	7.60	2.31	23000	38.70	25.60
190	7.43	2.37	24000	38.60	25.70
200	7.26	2.43	25000	24.10	3.92
220	9.11	2.56	14000	27.40	5.66
240	10.88	2.70	15000	30.00	7.20
260	11.75	2.83	16000	32.60	9.36
280	11.55	2.93	17000	33.40	9.16
300	11.36	3.03	18000	34.20	10.70
320	12.03	3.13	19000	35.30	12.16
340	12.69	3.23	20000	36.90	13.12
360	13.33	3.32	21000	38.10	13.81
380	14.00	3.41	22000	39.00	14.83
400	14.63	3.48	23000	38.60	15.83
450	15.33	3.71	24000	39.50	17.11
500	16.03	3.85	25000	39.30	17.62
550	16.65	4.03			
600	17.29	4.32			
650	17.64	4.51			
700	18.00	4.54			
750	18.39	4.90			
800	18.79	5.04			
850	19.10	5.04			
900	19.42	5.20			
950	19.58	5.28			
1000	19.75	5.58			

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FCC ID

QDJ-0406CHAI1

Page No.

64 of 66

Issued Date

Sep. 08, 2004

FCC TEST REPORT**Report No. : FG462917-01****List of Measuring Equipments**

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum analyzer	R&S	FSP40	100057	9KHz-40GHz	Feb. 26, 2004	Feb. 26, 2005	Radiation (03CH06-HY)
Controller	CT	SC100	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Dec. 18, 2003	Dec. 18, 2004	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Feb. 11, 2004	Feb. 11, 2005	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Jun. 22, 2004	Jun. 22, 2005	Radiation (03CH06-HY)
PreAmplifier	Com-Power	PA-103	161055	1MHz - 1000MHz	Apr. 26, 2004	Apr. 26, 2005	Radiation (03CH06-HY)
HF Amplifier	MITEQ	AFS44	973248	0.1G - 26.5G	May. 20, 2004	May. 20, 2005	Radiation (03CH06-HY)
Amplifier	MITEQ	AMF-6F	997165	26G - 40G	Jun. 24, 2004	Jun. 24, 2005	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)
Wireless Communications Test Set	Agilent	8960	E5515C	Qual-band	N/A	N/A	Radiation (03CH06-HY)

Uncertainty of Test Site

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 Receiver VSWR $\Gamma_1 = 0.20$ Antenna VSWR $\Gamma_2 = 0.23$ Uncertainty = $20\log(1-\Gamma_1*\Gamma_2)$	+0.39/-0.41	U-shaped	0.28
combined standard uncertainty Uc(y)	1.27		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.54		

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

Contribution	Uncertainty of x_i		$u(x_i)$	C_i	$C_i*u(x_i)$
	dB	Probability Distribution			
Receiver reading	± 0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	± 1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	± 0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	± 2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	± 1.50	Rectangular	0.87	1	0.87
Site imperfection	± 2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\log(1-\Gamma_1*\Gamma_2*\Gamma_3)$	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty Uc(y)	2.36				
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	4.72				

$$U = \sqrt{\{(1/2)^2 + (0.3/2)^2 + (2^2 + 0.5^2 + 2^2 + 0.25^2 + 2^2)/3 + (0.54)^2/2\}} = 2.2 \text{ for 10m test distance}$$

$$U = \sqrt{\{(1/2)^2 + (0.3/2)^2 + (2^2 + 3^2 + 2^2 + 0.25^2 + 2^2)/3 + (0.54)^2/2\}} = 2.7 \text{ for 3m test distance}$$

END OF TEST REPORT