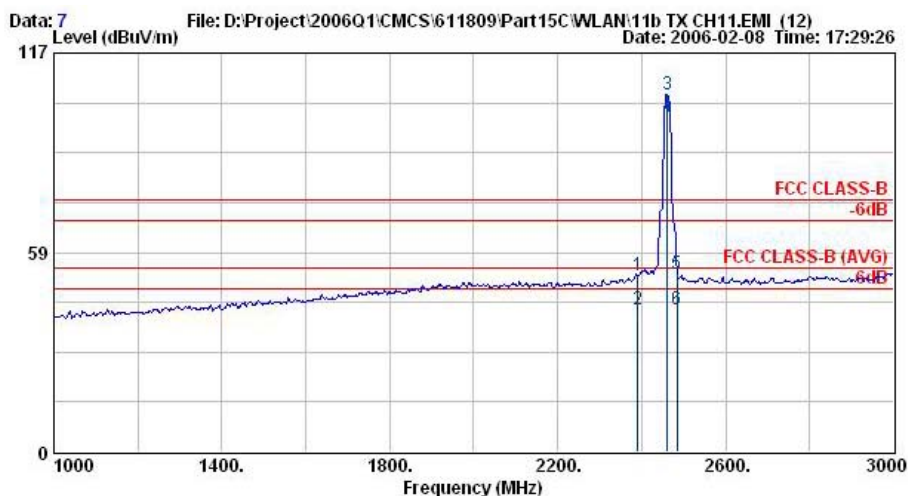




- Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11b TX CH11,2462MHz
Plane : E2

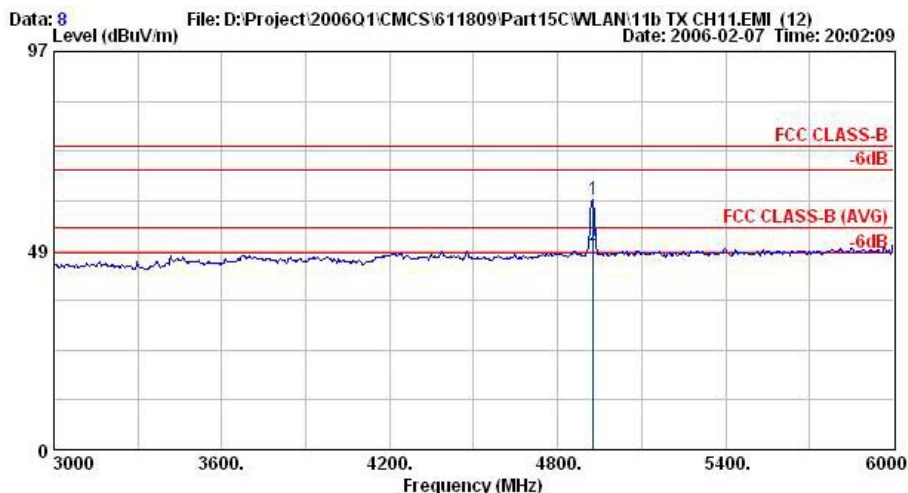
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	2390.00	51.91	-22.09	74.00	52.62	30.48	4.26	35.46	200	0 Peak
2 @	2390.00	41.71	-12.29	54.00	42.42	30.48	4.26	35.46	100	255 Average
3 @	2462.00	104.96			105.70	30.43	4.33	35.49	200	0 Peak
4 @	2462.00	98.11			98.85	30.43	4.33	35.49	100	255 Average
5 @	2483.50	52.23	-21.77	74.00	52.97	30.41	4.36	35.51	200	0 Peak
6 @	2483.50	41.87	-12.13	54.00	42.61	30.41	4.36	35.51	100	255 Average

Remark: #3 and #4 Fundamental Signal



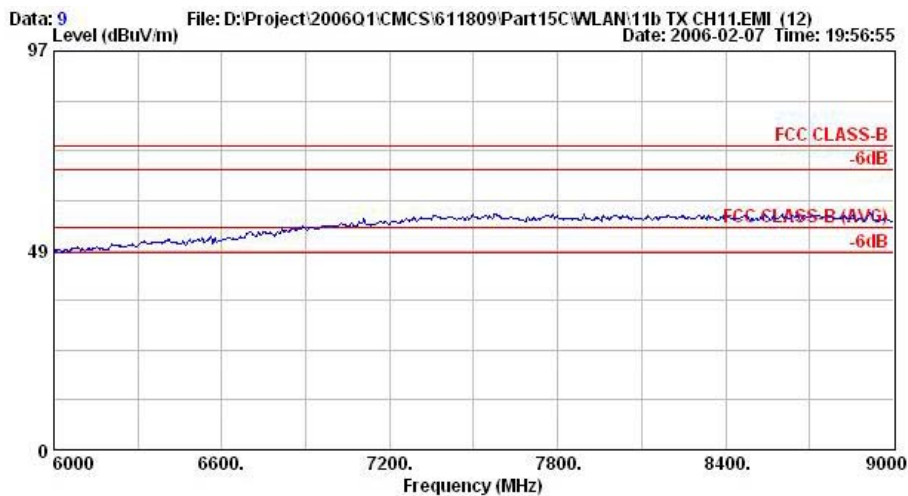
FCC TEST REPORT

Report No. : FR611809



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11b TX CH11,2462MHz
Plane : E2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	4926.00	61.08	-12.92	74.00	57.36	33.57	6.36	36.21	200	0 Peak
2 @	4926.00	49.75	-4.25	54.00	46.03	33.57	6.36	36.21	100	6 Average

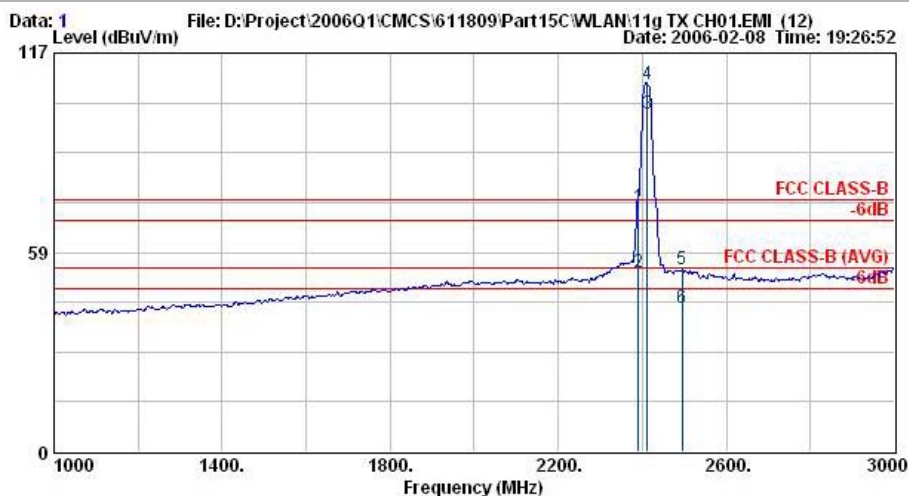


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11b TX CH11,2462MHz
Plane : E2



- Test Mode : Mode 4
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH01,2412MHz
Plane : E2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	2390.00	71.68	-2.32	74.00	72.39	30.48	4.26	35.46	100	0
2 @	2390.00	52.83	-1.17	54.00	53.54	30.48	4.26	35.46	100	187
3 @	2412.00	99.18			99.90	30.47	4.26	35.46	100	187
4 @	2412.00	107.82			108.54	30.47	4.26	35.46	100	0
5 @	2494.00	53.32	-20.68	74.00	54.06	30.40	4.39	35.53	100	0
6 @	2494.00	42.39	-11.61	54.00	43.13	30.40	4.39	35.53	100	187

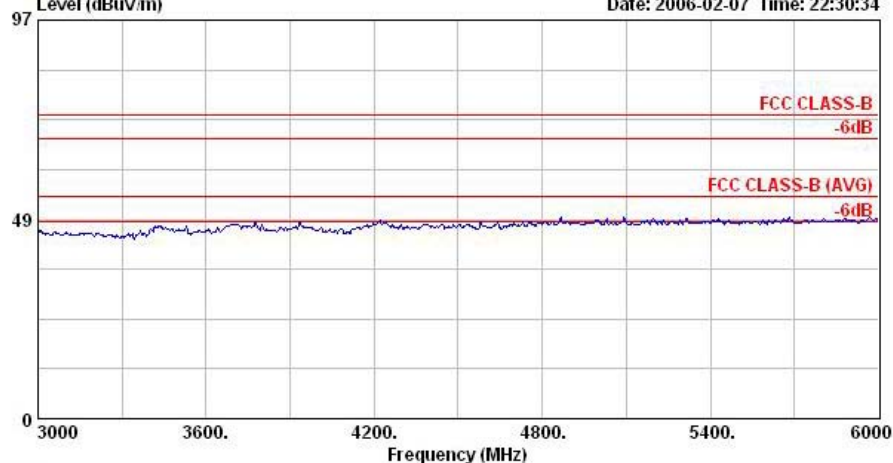
Remark: #3 and #4 Fundamental Signal



FCC TEST REPORT

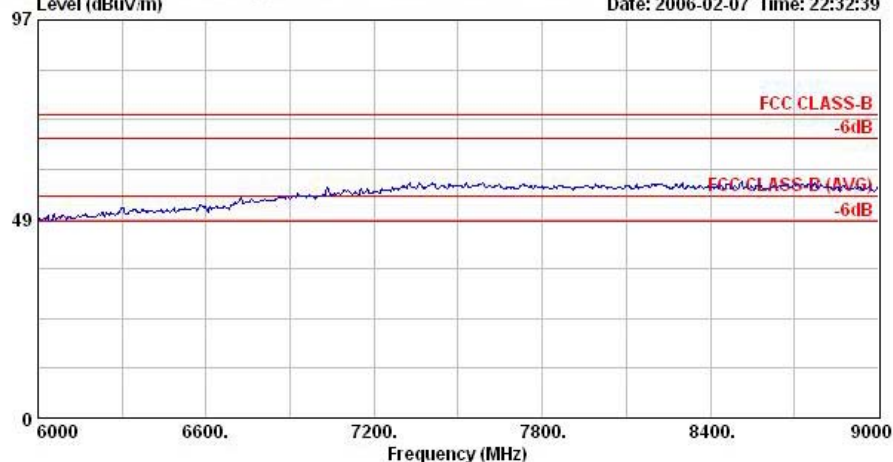
Report No. : FR611809

Data: 2 File: D:\Project\2006Q1\CMCS\611809\Part15C\WLAN\11g TX CH01.EMI (12)
Level (dBuV/m) Date: 2006-02-07 Time: 22:30:34



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH01,2412MHz
Plane : E2

Data: 3 File: D:\Project\2006Q1\CMCS\611809\Part15C\WLAN\11g TX CH01.EMI (12)
Level (dBuV/m) Date: 2006-02-07 Time: 22:32:39

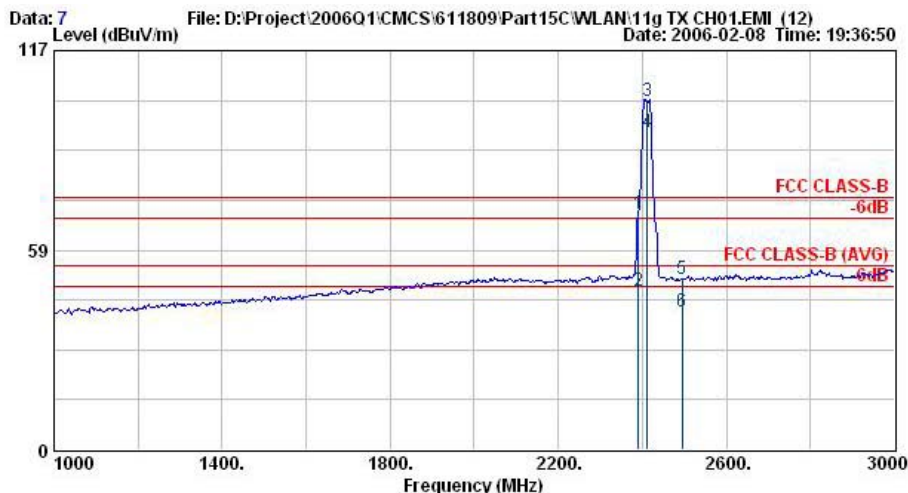


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH01,2412MHz
Plane : E2



- Polarization : Vertical

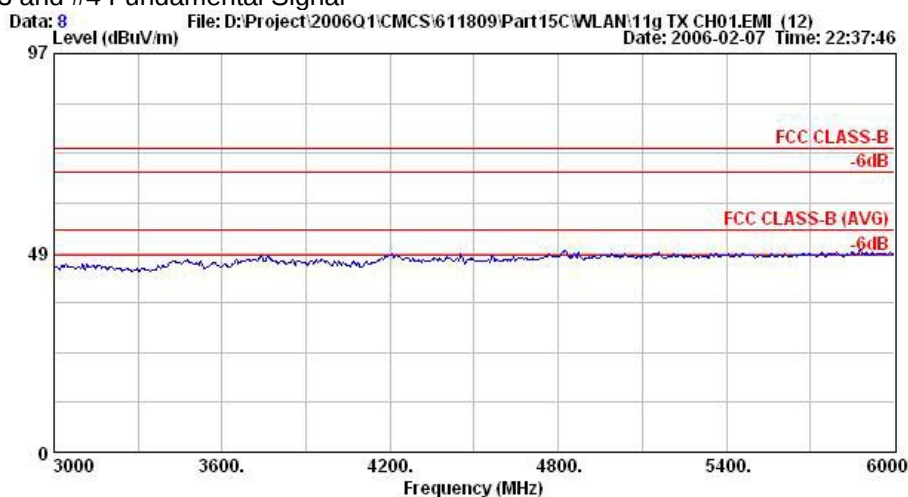
■ The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH01,2412MHz
Plane : E2

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2390.00	68.97	-5.03	74.00	69.68	30.48	4.26	35.46	100	0	Peak
2 @	2390.00	46.61	-7.39	54.00	47.32	30.48	4.26	35.46	100	253	Average
3 @	2412.00	102.00			102.72	30.47	4.26	35.46	100	0	Peak
4 @	2412.00	93.27			93.99	30.47	4.26	35.46	100	253	Average
5 @	2494.00	50.16	-23.84	74.00	50.90	30.40	4.39	35.53	100	0	Peak
6 @	2494.00	40.24	-13.76	54.00	40.98	30.40	4.39	35.53	100	253	Average

Remark: #3 and #4 Fundamental Signal

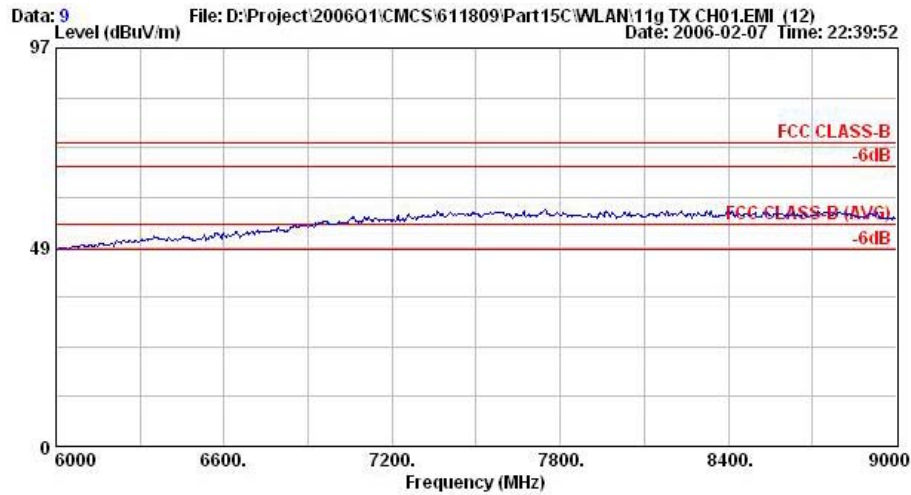


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH01,2412MHz
Plane : E2



FCC TEST REPORT

Report No. : FR611809

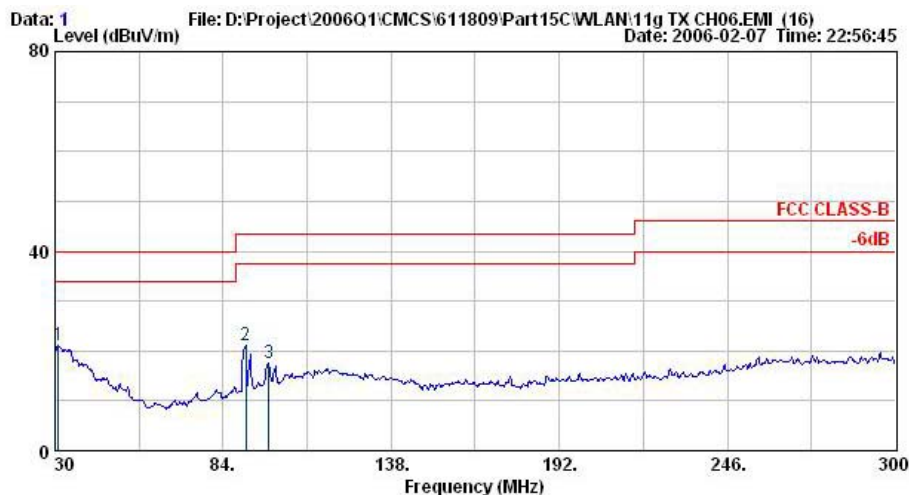


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH01, 2412MHz
Plane : E2



- Test Mode : Mode 5
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
 Condition : BI-LOG-2004-1122 HORIZONTAL
 EUT : GSM/GPRS/EGPRS Mobile Phone with
 : Bluetooth
 Power : 120Vac/60Hz
 Model : FR611809
 Memo : 802.11g TX CH06,2437MHz
 Plane : E2

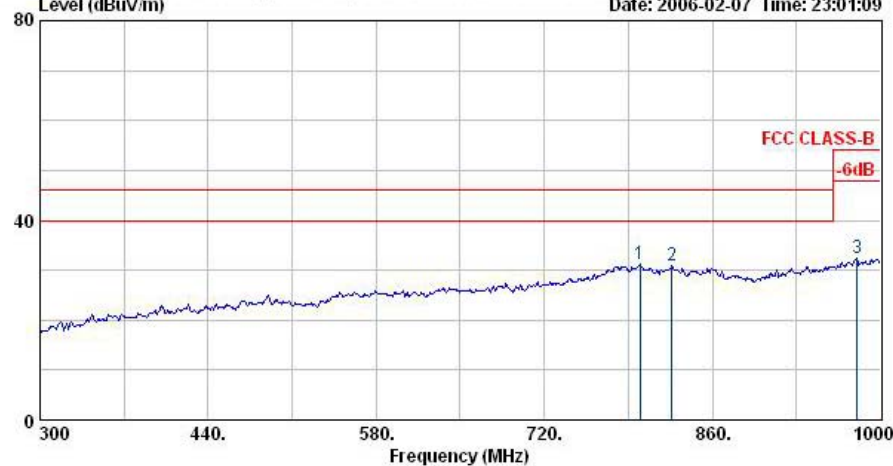
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	31.08	21.16	-18.84	40.00	32.91	18.40	1.37	31.52	400	0 Peak
2 @	91.29	21.26	-22.24	43.50	41.27	9.18	2.33	31.52	400	0 Peak
3 @	98.58	17.53	-25.97	43.50	36.10	10.32	2.42	31.32	400	0 Peak



FCC TEST REPORT

Report No. : FR611809

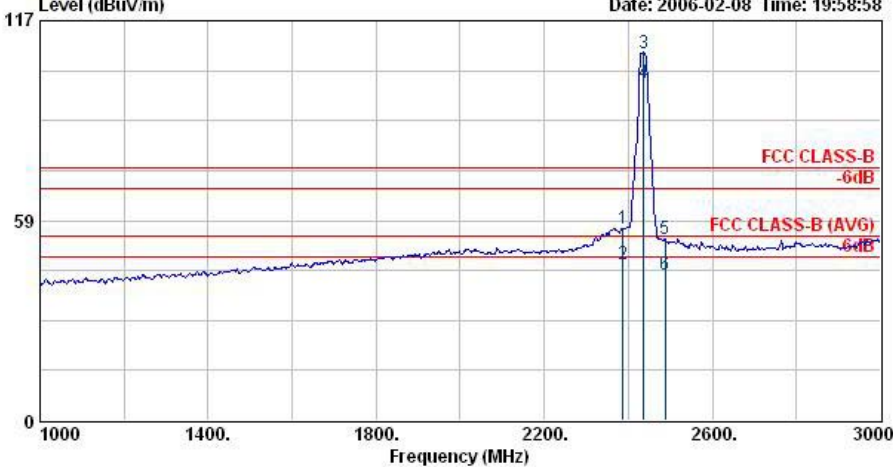
Data: 2 File: D:\Project\2006Q1\CMCS\611809\Part15C\WLAN\11g TX CH06.EMI (16) Date: 2006-02-07 Time: 23:01:09



Site : 03CH06-HY
Condition : BI-LOG-2004-1122 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH06,2437MHz
Plane : E2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	799.80	31.20	-14.80	46.00	31.98	21.90	7.45	30.12	142	226 Peak
2 @	826.40	31.03	-14.97	46.00	32.47	21.39	7.59	30.43	100	0 Peak
3 @	980.40	32.56	-21.44	54.00	32.05	22.38	8.35	30.22	100	0 Peak

Data: 3 File: D:\Project\2006Q1\CMCS\611809\Part15C\WLAN\11g TX CH06.EMI (16) Date: 2006-02-08 Time: 19:58:58



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH06,2437MHz
Plane : E2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	2388.00	56.22	-17.78	74.00	56.94	30.48	4.23	35.44	100	2 Peak
2 @	2388.00	45.79	-8.21	54.00	46.51	30.48	4.23	35.44	100	194 Average
3 @	2437.00	107.52			108.26	30.44	4.29	35.47	100	2 Peak
4 @	2437.00	98.88			99.62	30.44	4.29	35.47	100	194 Average
5 @	2488.00	53.16	-20.84	74.00	53.92	30.40	4.36	35.51	100	2 Peak
6 @	2488.00	42.79	-11.21	54.00	43.54	30.40	4.36	35.51	100	194 Average

Remark: #3 and #4 Fundamental Signal

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

Page No. : 95 of 121

Report Issued Date : Mar. 10, 2006

Report Version : Rev. 01

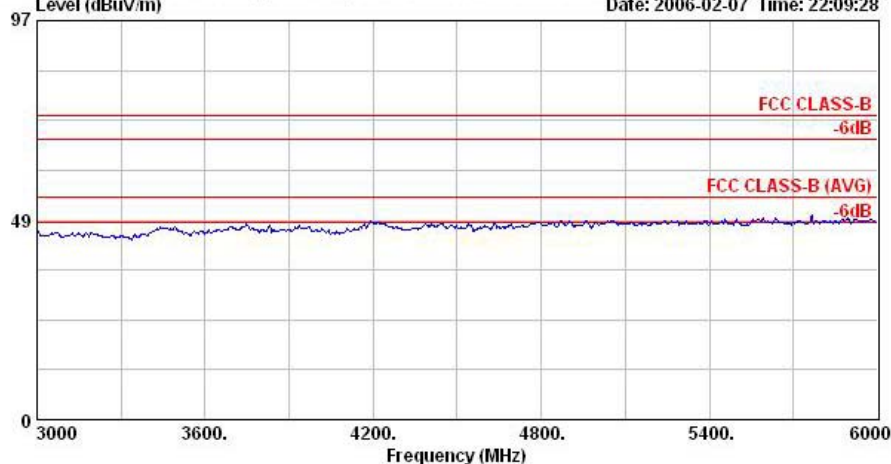
FCC ID : QDJ-0602DBS01



FCC TEST REPORT

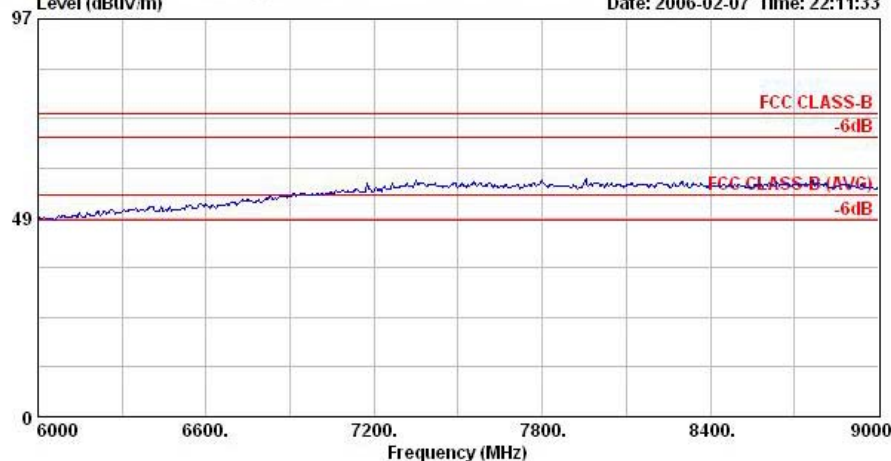
Report No. : FR611809

Data: 4 File: D:\Project\2006Q1\CMCS\611809\Part15C\WLAN\11g TX CH06.EMI (16)
Level (dBuV/m) Date: 2006-02-07 Time: 22:09:28



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH06,2437MHz
Plane : E2

Data: 5 File: D:\Project\2006Q1\CMCS\611809\Part15C\WLAN\11g TX CH06.EMI (16)
Level (dBuV/m) Date: 2006-02-07 Time: 22:11:33

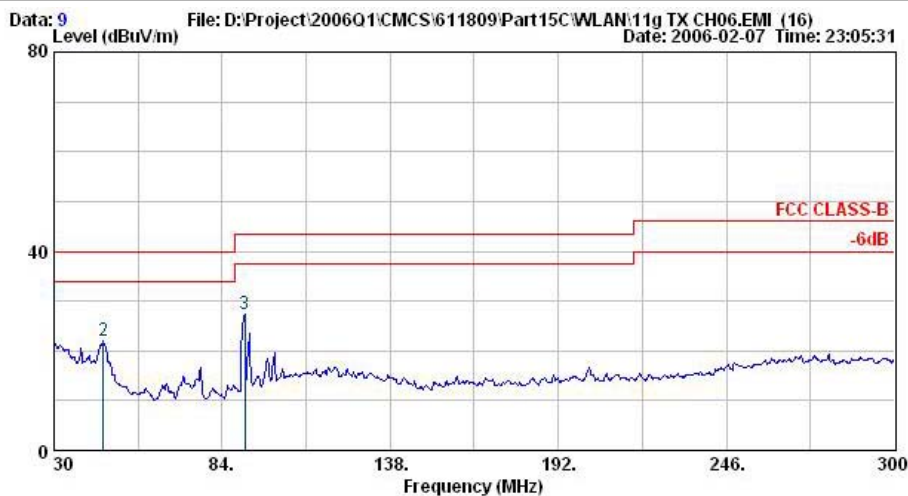


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH06,2437MHz
Plane : E2



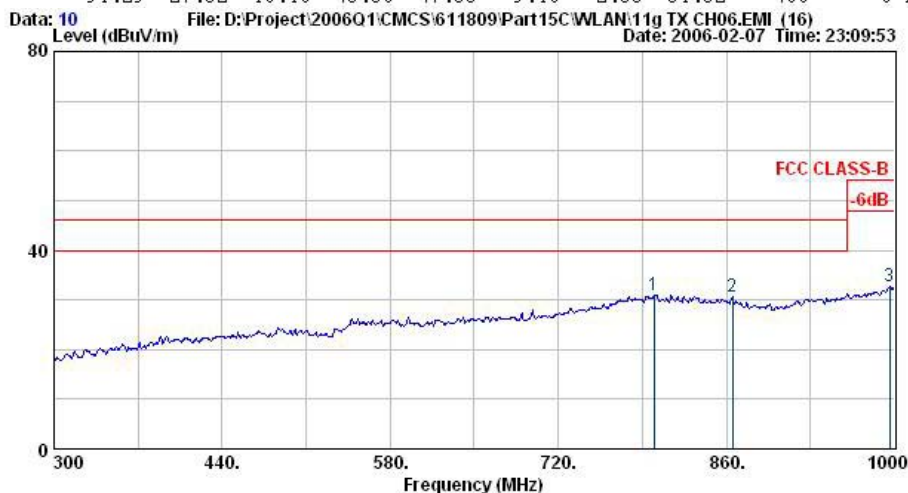
Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
Condition : BI-LOG-2004-1122 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH06,2437MHz
Plane : E2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	30.00	21.45	-18.55	40.00	32.86	18.73	1.35	31.49	400	0 Peak
2 @	45.93	22.06	-17.94	40.00	40.27	11.74	1.65	31.59	400	0 Peak
3 @	91.29	27.32	-16.18	43.50	47.33	9.18	2.33	31.52	400	0 Peak



Site : 03CH06-HY
Condition : BI-LOG-2004-1122 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH06,2437MHz
Plane : E2

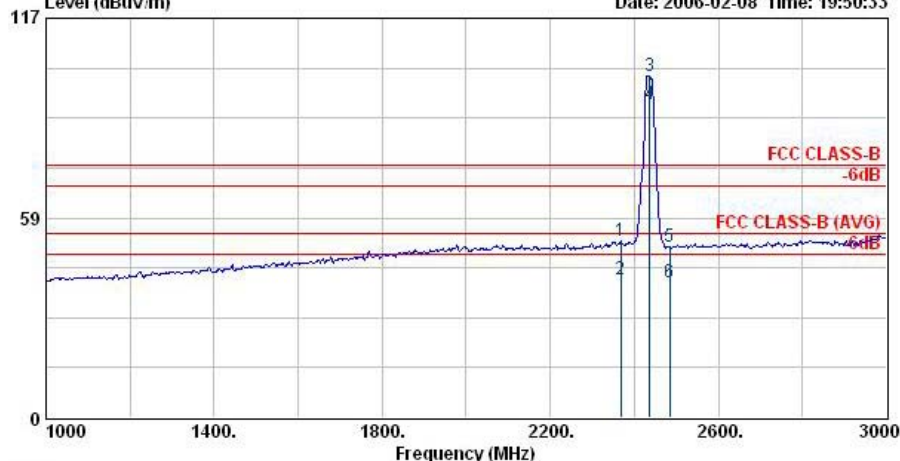
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	799.80	31.02	-14.98	46.00	31.79	21.90	7.45	30.12	128	251 Peak
2 @	864.90	30.51	-15.49	46.00	32.31	20.63	7.79	30.21	100	0 Peak
3 @	995.80	32.79	-21.21	54.00	32.04	22.85	8.41	30.51	100	0 Peak



FCC TEST REPORT

Report No. : FR611809

Data: 11 File: D:\Project\2006Q1\CMCS\611809\Part15C\WLAN\11g TX CH06.EMI (16)
Level (dBuV/m) Date: 2006-02-08 Time: 19:50:33

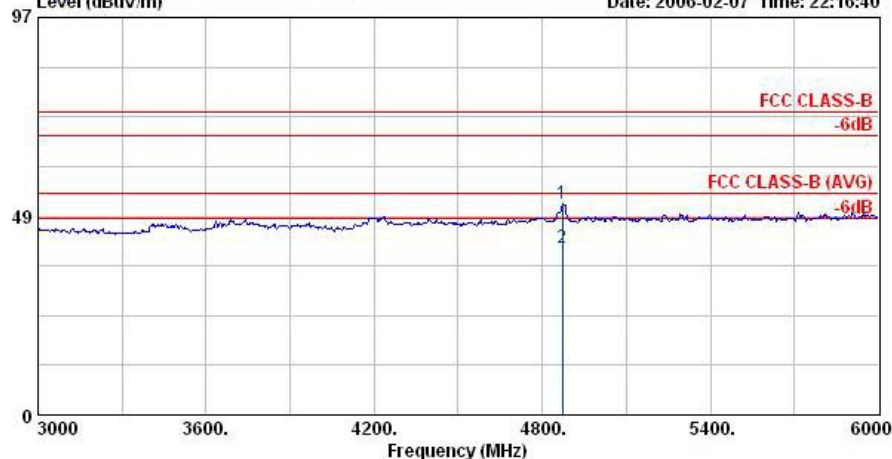


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH06,2437MHz
Plane : E2

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2368.00	51.69	-22.31	74.00	52.38	30.51	4.23	35.44	100	0	Peak
2 @	2368.00	40.40	-13.60	54.00	41.10	30.51	4.23	35.44	100	280	Average
3 @	2437.00	99.83			100.57	30.44	4.29	35.47	100	0	Peak
4 @	2437.00	91.64			92.38	30.44	4.29	35.47	100	280	Average
5 @	2484.00	50.20	-23.80	74.00	50.94	30.41	4.36	35.51	100	0	Peak
6 @	2484.00	39.50	-14.50	54.00	40.24	30.41	4.36	35.51	100	280	Average

Remark: #3 and #4 Fundamental Signal

Data: 12 File: D:\Project\2006Q1\CMCS\611809\Part15C\WLAN\11g TX CH06.EMI (16)
Level (dBuV/m) Date: 2006-02-07 Time: 22:16:40



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH06,2437MHz
Plane : E2

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	4872.00	51.55	-22.45	74.00	48.02	33.39	6.30	36.16	200	360	Peak
2 @	4872.00	40.65	-13.35	54.00	37.12	33.39	6.30	36.16	100	348	Average

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

Page No. : 98 of 121

Report Issued Date : Mar. 10, 2006

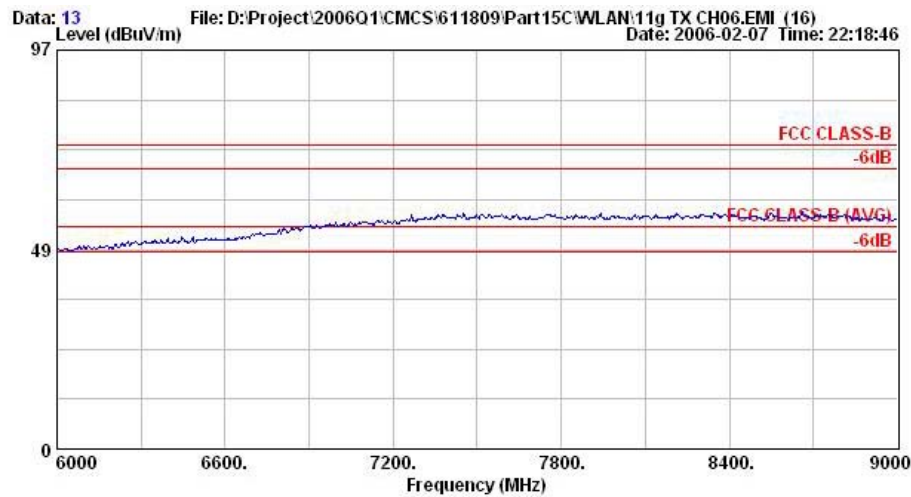
Report Version : Rev. 01

FCC ID : QDJ-0602DBS01



FCC TEST REPORT

Report No. : FR611809

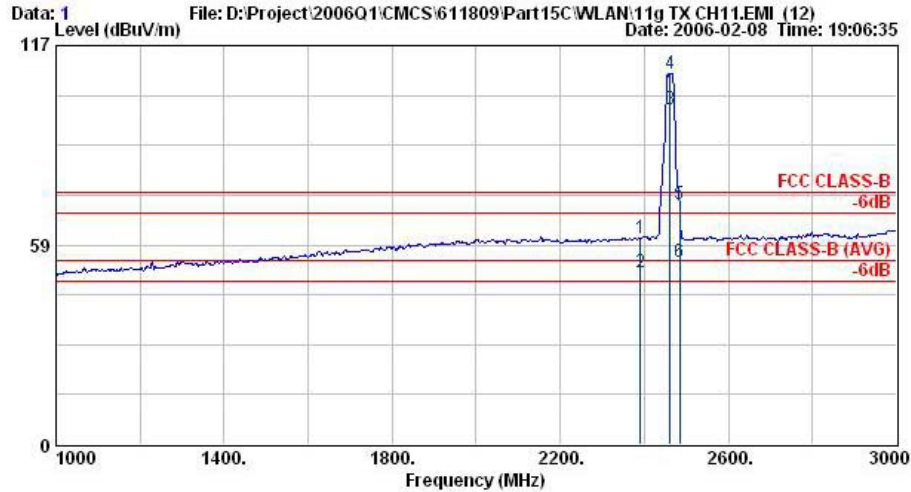


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH06,2437MHz
Plane : E2



- Test Mode : Mode 6
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH11,2462MHz
Plane : E2

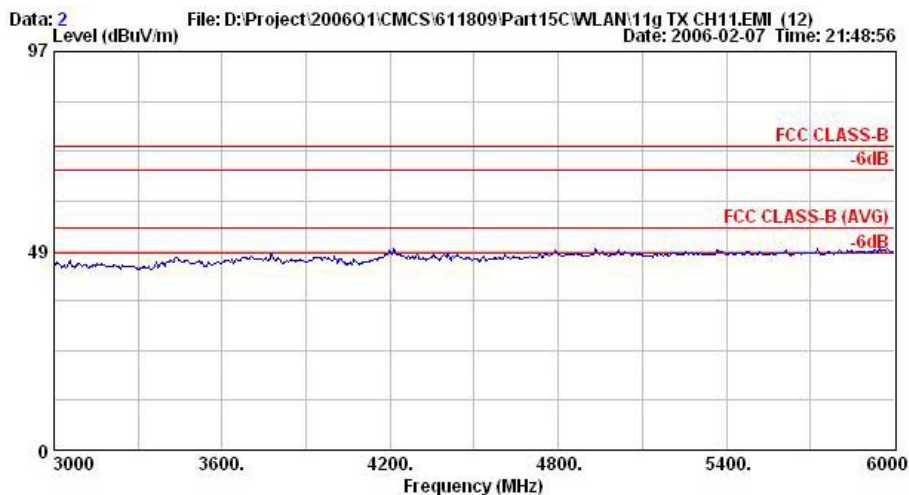
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	2390.00	60.54	-13.46	74.00	61.25	30.48	4.26	35.46	199	360 Peak
2 @	2390.00	50.44	-3.56	54.00	51.15	30.48	4.26	35.46	100	197 Average
3 @	2462.00	98.50			99.24	30.43	4.33	35.49	100	197 Average
4 @	2462.00	108.71			109.45	30.43	4.33	35.49	199	360 Peak
5 @	2483.50	70.25	-3.75	74.00	70.99	30.41	4.36	35.51	199	360 Peak
6 @	2483.50	53.60	-0.40	54.00	54.34	30.41	4.36	35.51	100	197 Average

Remark: #3 and #4 Fundamental Signal

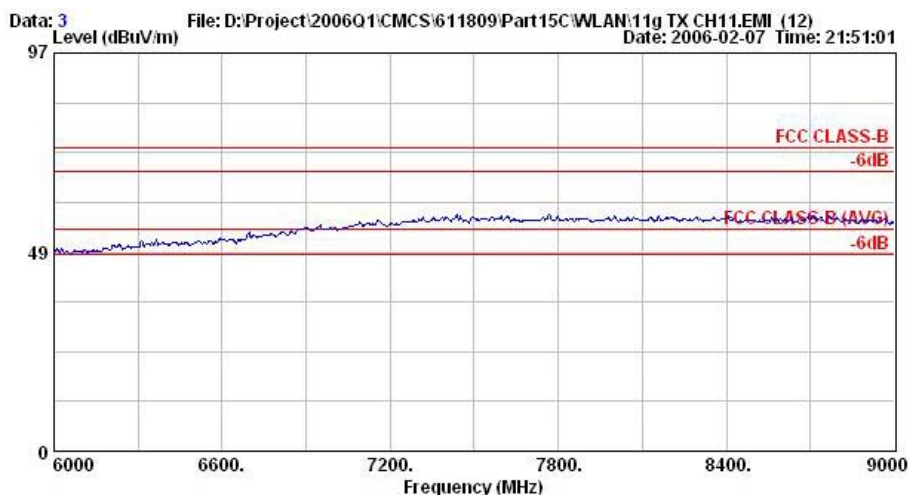


FCC TEST REPORT

Report No. : FR611809



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH11, 2462MHz
Plane : E2

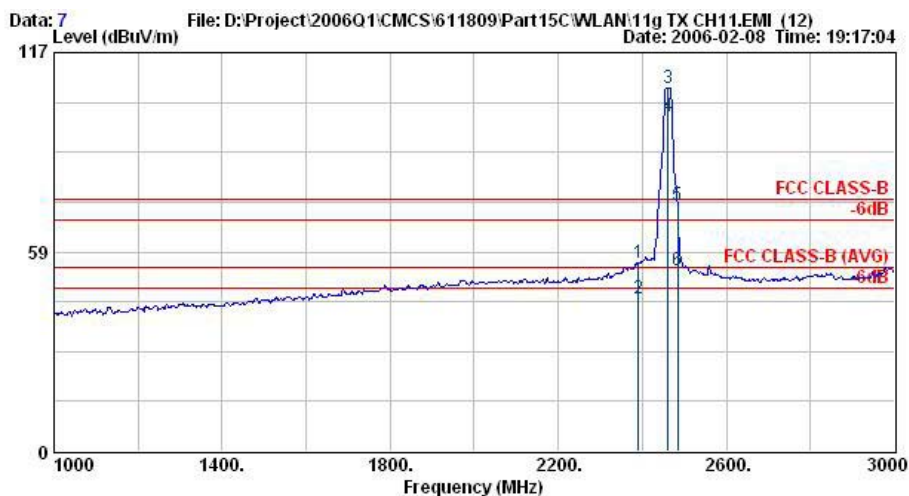


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH11, 2462MHz
Plane : E2



- Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH11,2462MHz
Plane : E2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV		dB		deg	
1 @	2390.00	55.17	-18.83	74.00	55.88	30.48	4.26	35.46	100	0 Peak
2 @	2390.00	44.90	-9.10	54.00	45.61	30.48	4.26	35.46	100	204 Average
3 @	2462.00	106.53			107.27	30.43	4.33	35.49	100	0 Peak
4 @	2462.00	98.17			98.91	30.43	4.33	35.49	100	204 Average
5 @	2483.50	72.14	-1.86	74.00	72.87	30.41	4.36	35.51	100	0 Peak
6 @	2483.50	53.14	-0.86	54.00	53.88	30.41	4.36	35.51	100	204 Average

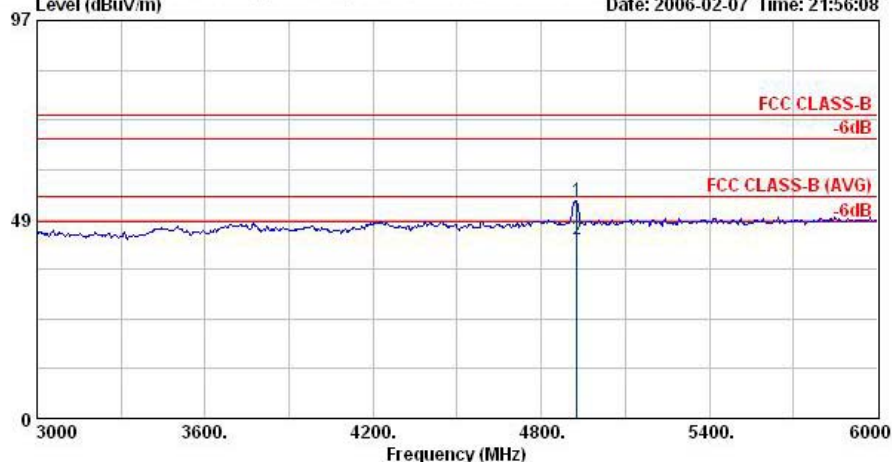
Remark: #3 and #4 Fundamental Signal



FCC TEST REPORT

Report No. : FR611809

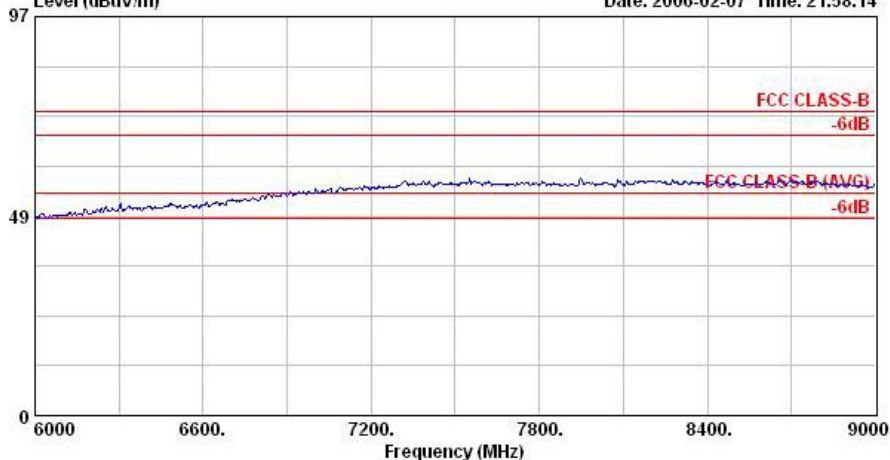
Data: 8 File: D:\Project\2006Q1\CMCS\611809\Part15C\WLAN\11g TX CH11.EMI (12)
Level (dBuV/m) Date: 2006-02-07 Time: 21:56:08



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH11,2462MHz
Plane : E2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	4926.00	53.04	-20.96	74.00	49.32	33.57	6.36	36.21	200	360 Peak
2 @	4926.00	43.47	-10.53	54.00	39.75	33.57	6.36	36.21	100	11 Average

Data: 9 File: D:\Project\2006Q1\CMCS\611809\Part15C\WLAN\11g TX CH11.EMI (12)
Level (dBuV/m) Date: 2006-02-07 Time: 21:58:14



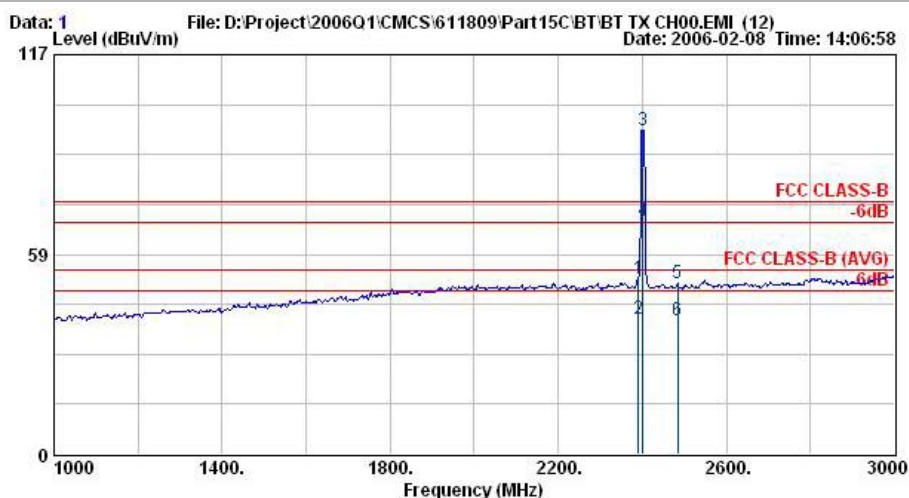
Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : 802.11g TX CH11,2462MHz
Plane : E2



Test Mode : Mode 7

- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH00,2402MHz
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	2390.00	51.48	-22.52	74.00	52.19	30.48	4.26	35.46	200	0
2 @	2390.00	39.39	-14.61	54.00	40.10	30.48	4.26	35.46	205	269
3 @	2402.00	94.92			95.63	30.48	4.26	35.46	200	0
4 @	2402.00	68.19			68.90	30.48	4.26	35.46	205	269
5 @	2483.50	49.81	-24.19	74.00	50.55	30.41	4.36	35.51	200	0
6 @	2483.50	39.26	-14.74	54.00	40.00	30.41	4.36	35.51	205	269

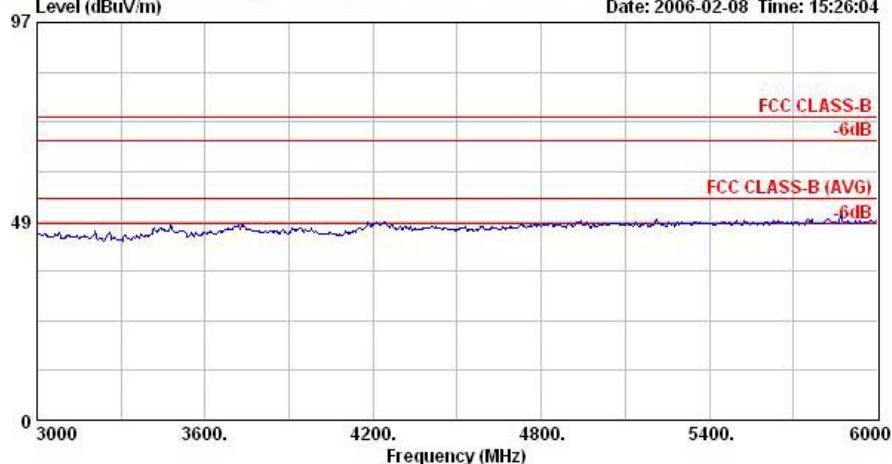
Remark: #3 and #4 Fundamental Signal



FCC TEST REPORT

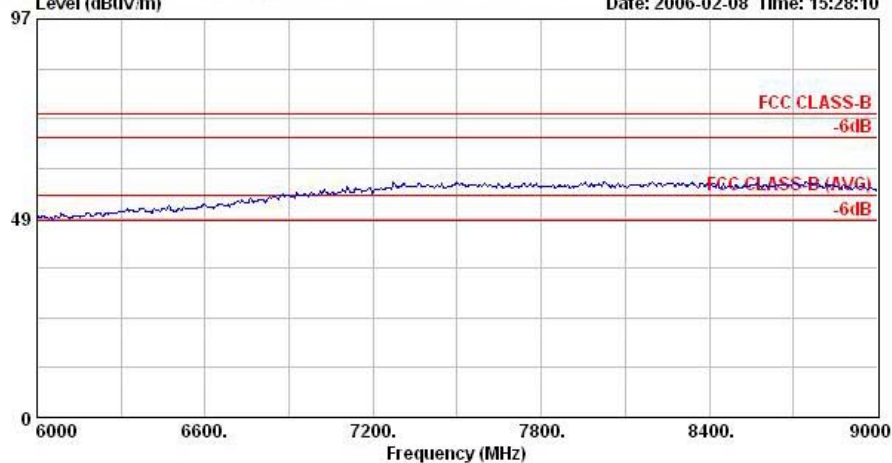
Report No. : FR611809

Data: 2 File: D:\Project\2006Q1\CMCS\611809\Part15C\BT\BT TX CH00.EMI (12)
Level (dBuV/m) Date: 2006-02-08 Time: 15:26:04



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH00;2402MHz
Plane : E1

Data: 3 File: D:\Project\2006Q1\CMCS\611809\Part15C\BT\BT TX CH00.EMI (12)
Level (dBuV/m) Date: 2006-02-08 Time: 15:28:10

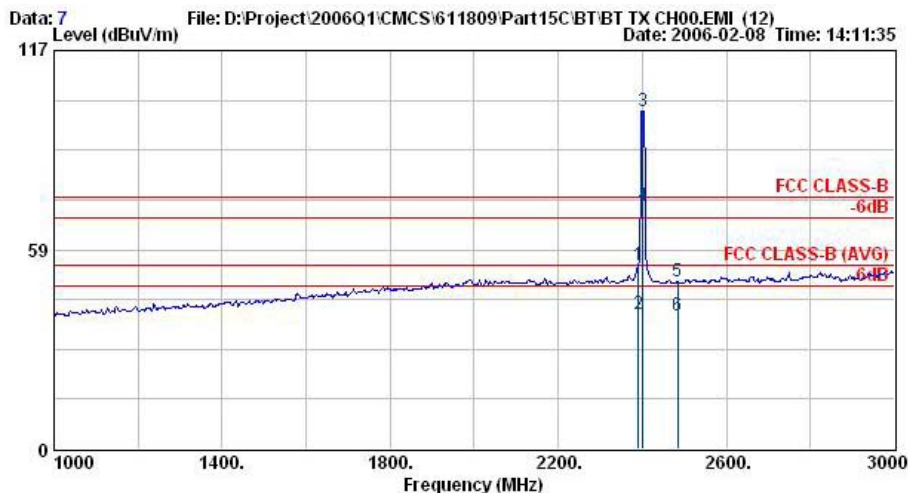


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH00;2402MHz
Plane : E1



- Polarization : Vertical

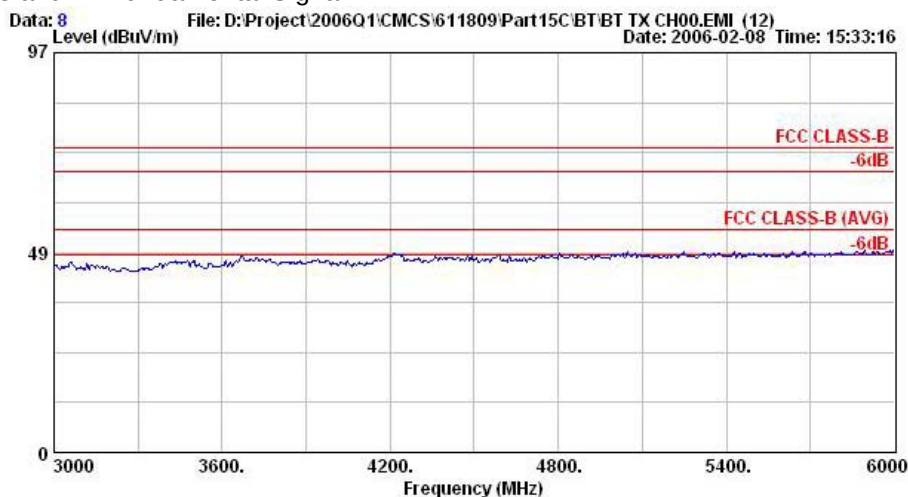
■ The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH00;2402MHz
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	2390.00	53.93	-20.07	74.00	54.65	30.48	4.26	35.46	100	0 Peak
2 @	2390.00	39.46	-14.54	54.00	40.17	30.48	4.26	35.46	100	101 Average
3 @	2402.00	99.14			99.85	30.48	4.26	35.46	100	0 Peak
4 @	2402.00	71.17			71.88	30.48	4.26	35.46	100	101 Average
5 @	2483.50	49.08	-24.92	74.00	49.81	30.41	4.36	35.51	100	0 Peak
6 @	2483.50	39.26	-14.74	54.00	40.00	30.41	4.36	35.51	100	101 Average

Remark: #3 and #4 Fundamental Signal

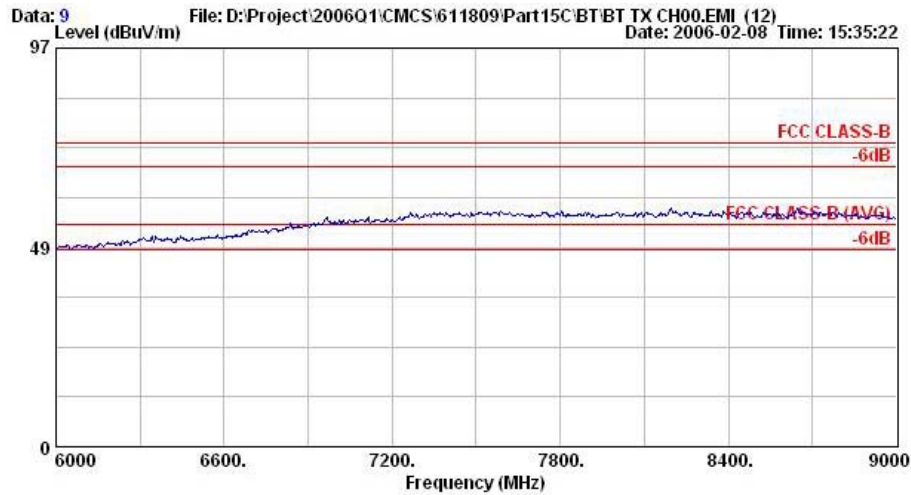


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH00;2402MHz
Plane : E1



FCC TEST REPORT

Report No. : FR611809

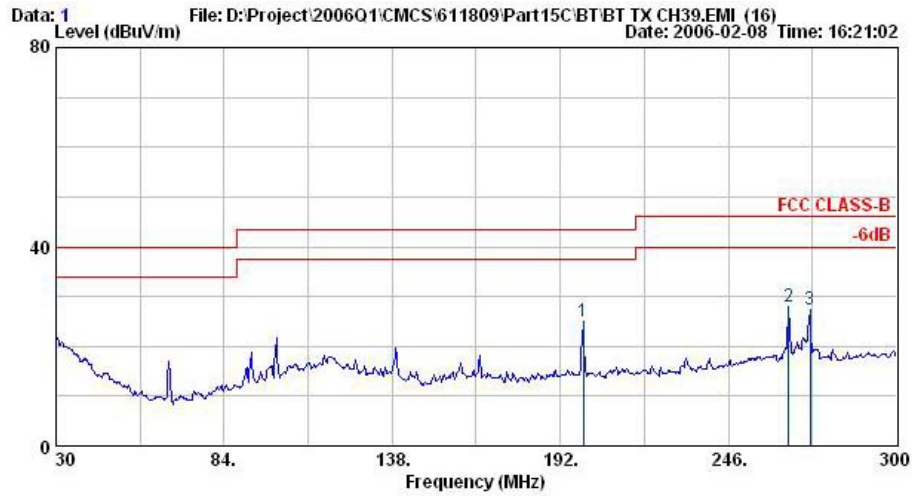


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH00,2402MHz
Plane : E1



- Test Mode : Mode 8
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
Condition : BI-LOG-2004-1122 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH39,2441MHz
Plane : E1

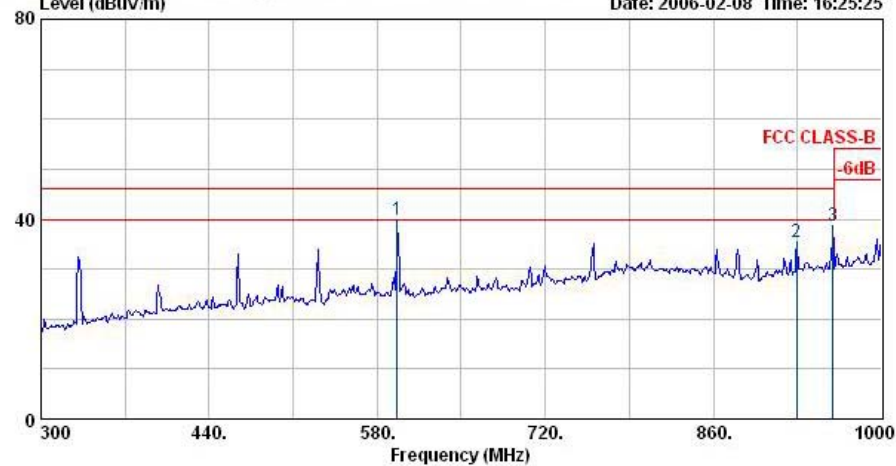
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	199.29	25.00	-18.50	43.50	42.91	9.93	3.50	31.34	400	0 Peak
2	265.44	28.02	-17.98	46.00	41.99	12.91	4.07	30.94	400	0 Peak
3	272.19	27.38	-18.62	46.00	41.31	12.91	4.12	30.97	400	0 Peak



FCC TEST REPORT

Report No. : FR611809

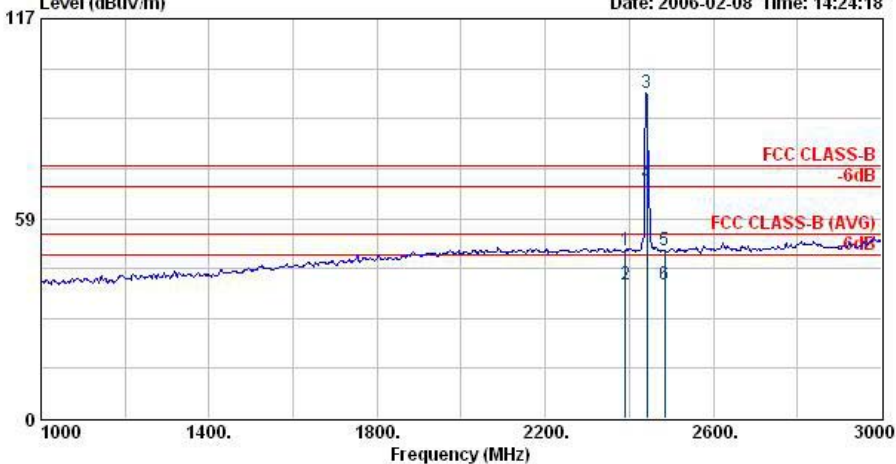
Data: 2 File: D:\Project\2006Q1\CMCS\611809\Part15C\BT\TX CH39.EMI (16) Date: 2006-02-08 Time: 16:25:25



Site : 03CH06-HY
Condition : BI-LOG-2004-1122 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH39,2441MHz
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	596.80	39.99	-6.01	46.00	46.36	18.00	6.33	30.70	152	279 Peak
2	929.30	35.35	-10.65	46.00	36.46	20.82	8.19	30.12	100	0 Peak
3	959.40	38.72	-7.28	46.00	39.05	21.73	8.31	30.38	100	0 Peak

Data: 3 File: D:\Project\2006Q1\CMCS\611809\Part15C\BT\TX CH39.EMI (16) Date: 2006-02-08 Time: 14:24:18



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH39,2441MHz
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.00	49.11	-24.89	74.00	49.82	30.48	4.26	35.46	100	0 Peak
2	2390.00	39.35	-14.65	54.00	40.06	30.48	4.26	35.46	105	268 Average
3 @	2441.00	95.06			95.80	30.44	4.29	35.47	100	0 Peak
4 @	2441.00	68.62			69.35	30.44	4.33	35.49	105	268 Average
5	2483.50	49.04	-24.96	74.00	49.78	30.41	4.36	35.51	100	0 Peak
6	2483.50	39.28	-14.72	54.00	40.02	30.41	4.36	35.51	105	268 Average

Remark: #3 and #4 Fundamental Signal

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

Page No. : 109 of 121

Report Issued Date : Mar. 10, 2006

Report Version : Rev. 01

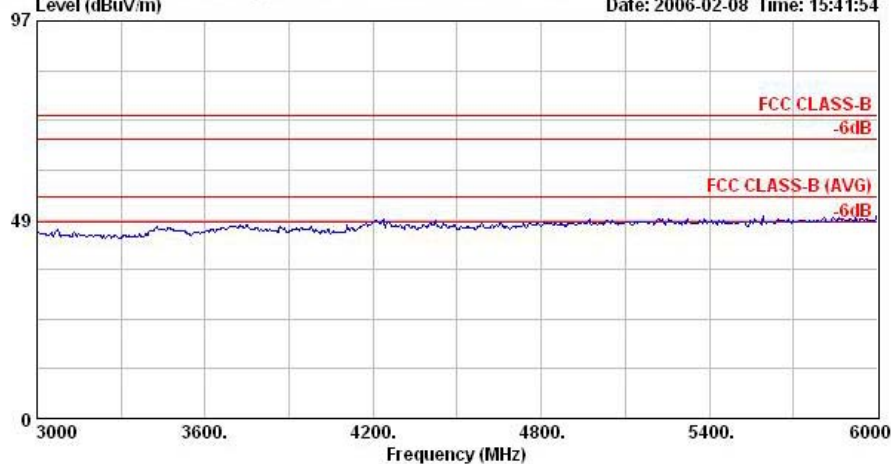
FCC ID : QDJ-0602DBS01



FCC TEST REPORT

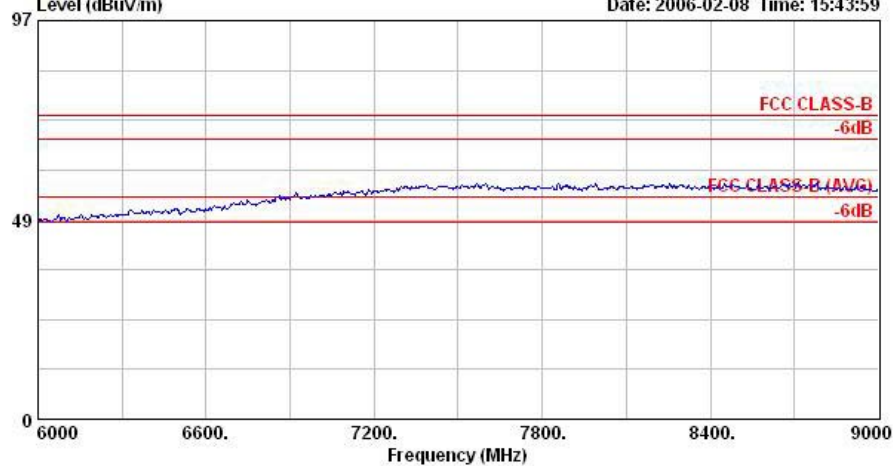
Report No. : FR611809

Data: 4 File: D:\Project\2006Q1\CMCS\611809\Part15C\BT\BT TX CH39.EMI (16)
Level (dBuV/m) Date: 2006-02-08 Time: 15:41:54



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH39,2441MHz
Plane : E1

Data: 5 File: D:\Project\2006Q1\CMCS\611809\Part15C\BT\BT TX CH39.EMI (16)
Level (dBuV/m) Date: 2006-02-08 Time: 15:43:59

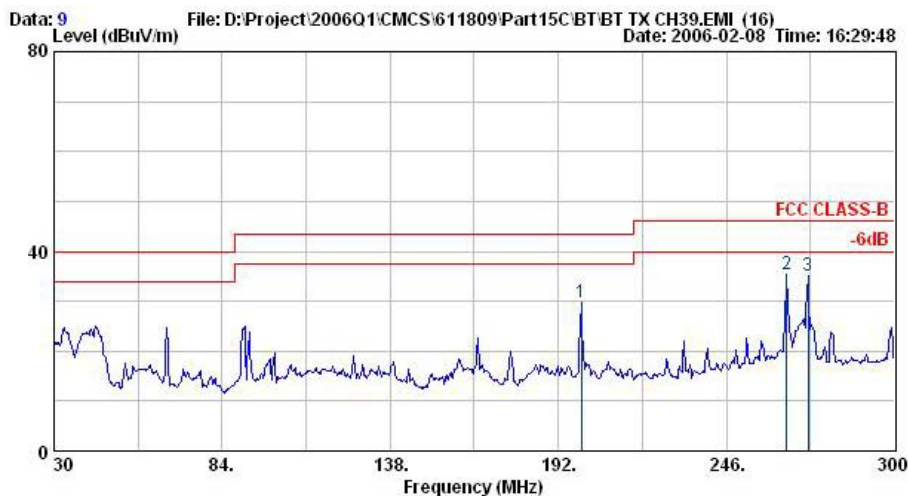


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH39,2441MHz
Plane : E1



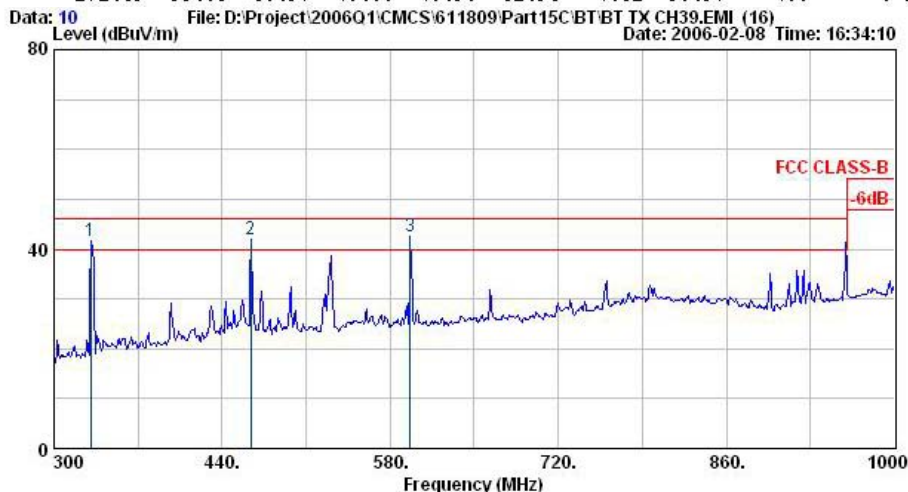
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
Condition : BI-LOG-2004-1122 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH39,2441MHz
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	199.29	29.87	-13.63	43.50	47.78	9.93	3.50	31.34	400	0 Peak
2	265.44	35.51	-10.49	46.00	49.48	12.91	4.07	30.94	400	0 Peak
3	272.19	35.03	-10.97	46.00	48.96	12.91	4.12	30.97	400	0 Peak



Site : 03CH06-HY
Condition : BI-LOG-2004-1122 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH39,2441MHz
Plane : E1

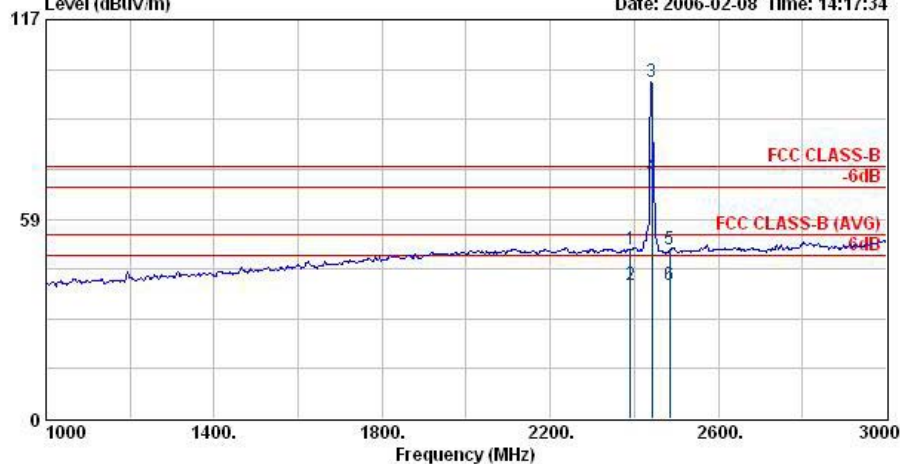
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	330.80	41.65	-4.35	46.00	54.08	13.85	4.62	30.90	100	0 Peak
2 @	463.80	42.02	-3.98	46.00	50.70	16.64	5.47	30.78	100	0 Peak
3 @	596.80	42.38	-3.62	46.00	48.75	18.00	6.33	30.70	127	146 Peak



FCC TEST REPORT

Report No. : FR611809

Data: 11 File: D:\Project\2006Q1\CMCS\611809\Part15C\BT\BT TX CH39.EMI (16)
Level (dBuV/m) Date: 2006-02-08 Time: 14:17:34

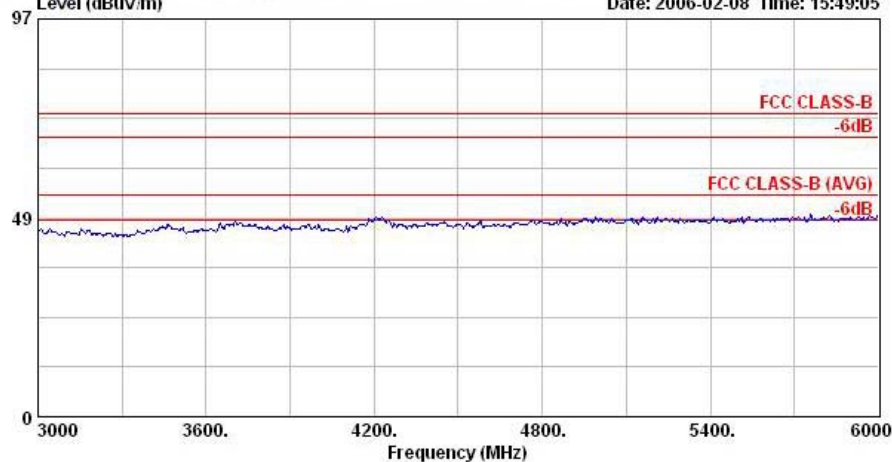


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH39,2441MHz
Plane : E1

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2390.00	49.74	-24.26	74.00	50.45	30.48	4.26	35.46	200	0	Peak
2	2390.00	39.35	-14.65	54.00	40.06	30.48	4.26	35.46	100	102	Average
3 @	2441.00	98.64			99.38	30.44	4.29	35.47	200	0	Peak
4 @	2441.00	70.84			71.57	30.44	4.33	35.49	100	102	Average
5	2483.50	49.44	-24.56	74.00	50.18	30.41	4.36	35.51	200	0	Peak
6	2483.50	39.27	-14.73	54.00	40.01	30.41	4.36	35.51	100	102	Average

Remark: #3 and #4 Fundamental Signal

Data: 12 File: D:\Project\2006Q1\CMCS\611809\Part15C\BT\BT TX CH39.EMI (16)
Level (dBuV/m) Date: 2006-02-08 Time: 15:49:05

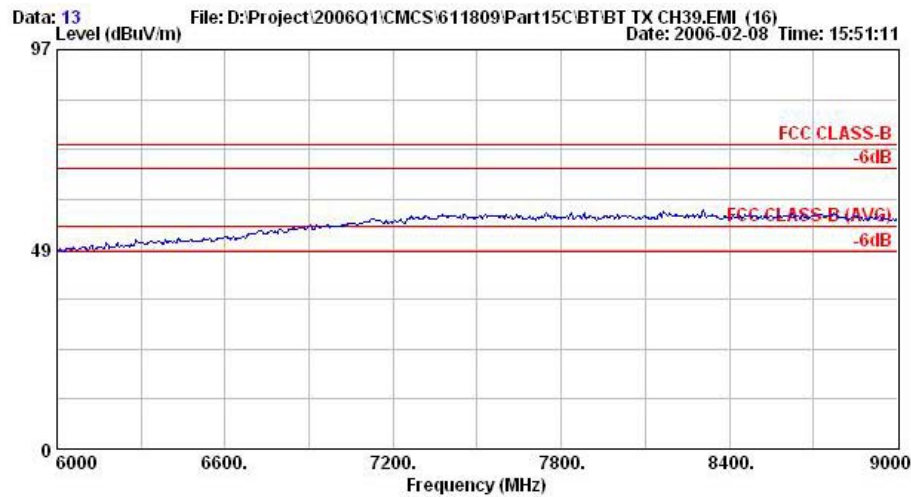


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH39,2441MHz
Plane : E1



FCC TEST REPORT

Report No. : FR611809

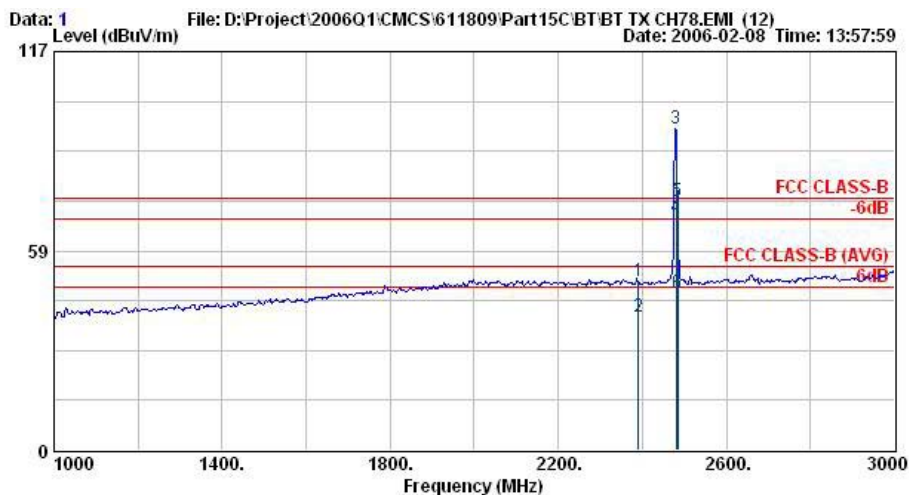


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH39,2441MHz
Plane : E1



- Test Mode : Mode 9
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH78,2480MHz
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV		dB	dB	cm	deg
1 @	2390.00	49.74	-24.26	74.00	50.45	30.48	4.26	35.46	100	0 Peak
2 @	2390.00	39.35	-14.65	54.00	40.06	30.48	4.26	35.46	105	269 Average
3 @	2480.00	94.42			95.16	30.41	4.36	35.51	100	0 Peak
4 @	2480.00	68.14			68.88	30.41	4.36	35.51	105	269 Average
5 @	2483.50	73.00	-1.00	74.00	73.74	30.41	4.36	35.51	100	0 Peak
6 @	2483.50	46.27	-7.73	54.00	47.01	30.41	4.36	35.51	105	269 Average

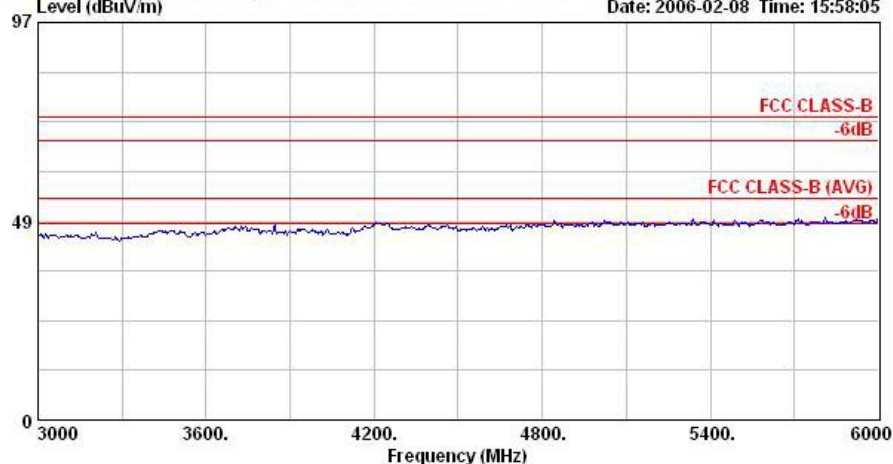
Remark: #3 and #4 Fundamental Signal



FCC TEST REPORT

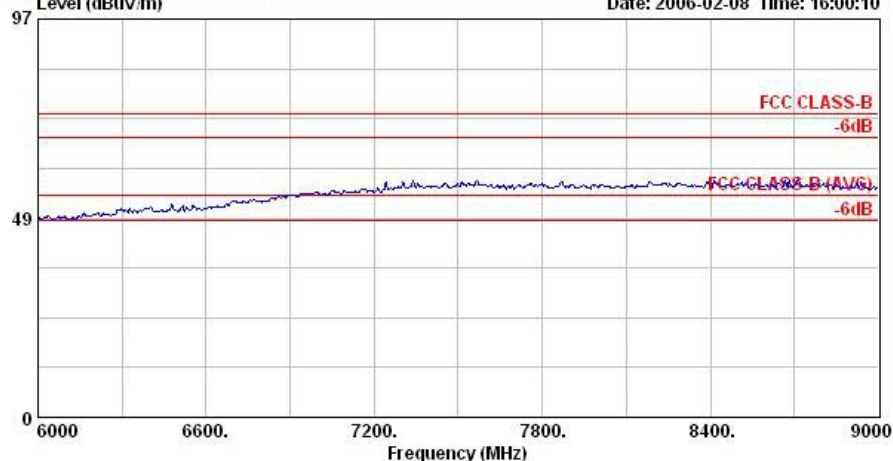
Report No. : FR611809

Data: 2 File: D:\Project\2006Q1\CMCS\611809\Part15C\BT\BT TX CH78.EMI (12)
Level (dBuV/m) Date: 2006-02-08 Time: 15:58:05



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH78,2480MHz
Plane : E1

Data: 3 File: D:\Project\2006Q1\CMCS\611809\Part15C\BT\BT TX CH78.EMI (12)
Level (dBuV/m) Date: 2006-02-08 Time: 16:00:10

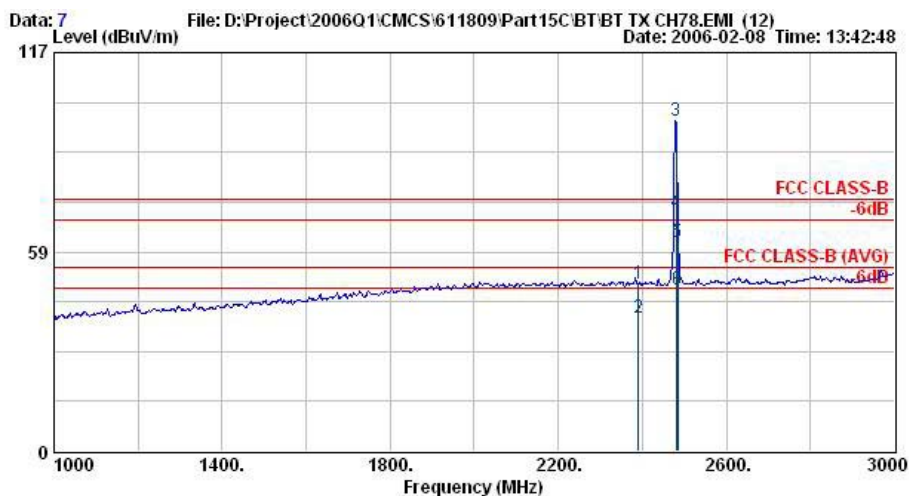


Site : 03CH06-HY
Condition : HF-ANT-071025-940201 HORIZONTAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH78,2480MHz
Plane : E1



- Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH78,2480MHz
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	2390.00	49.21	-24.79	74.00	49.92	30.48	4.26	35.46	200	0 Peak
2 @	2390.00	39.35	-14.65	54.00	40.06	30.48	4.26	35.46	100	272 Average
3 @	2480.00	96.97			97.71	30.41	4.36	35.51	200	0 Peak
4 @	2480.00	69.89			70.63	30.41	4.36	35.51	100	272 Average
5 @	2483.50	61.19	-12.81	74.00	61.93	30.41	4.36	35.51	200	0 Peak
6 @	2483.50	47.52	-6.48	54.00	48.26	30.41	4.36	35.51	100	272 Average

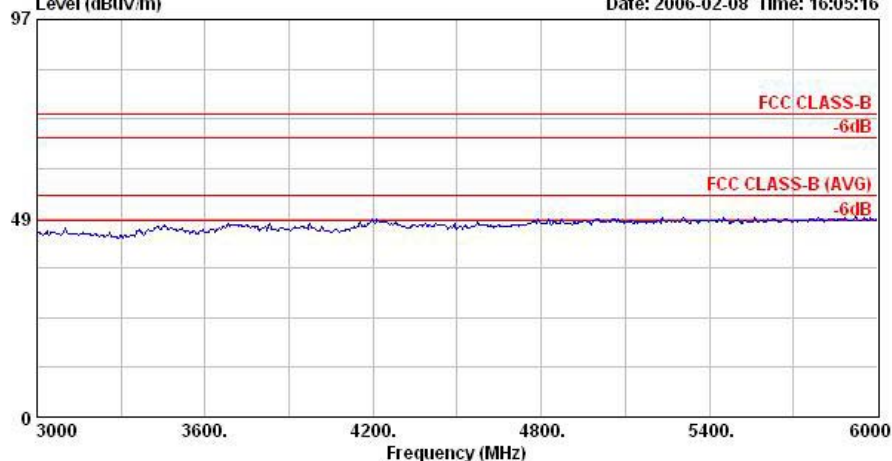
Remark: #3 and #4 Fundamental Signal



FCC TEST REPORT

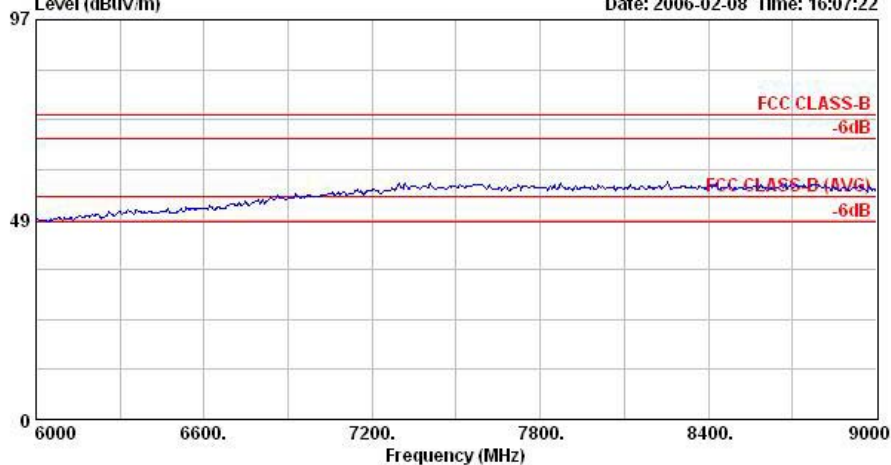
Report No. : FR611809

Data: 8 File: D:\Project\2006Q1\CMCS\611809\Part15C\BT\BT TX CH78.EMI (12)
Level (dBuV/m) Date: 2006-02-08 Time: 16:05:16



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH78,2480MHz
Plane : E1

Data: 9 File: D:\Project\2006Q1\CMCS\611809\Part15C\BT\BT TX CH78.EMI (12)
Level (dBuV/m) Date: 2006-02-08 Time: 16:07:22



Site : 03CH06-HY
Condition : HF-ANT-071025-940201 VERTICAL
EUT : GSM/GPRS/EGPRS Mobile Phone with
Bluetooth
Power : 120Vac/60Hz
Model : FR611809
Memo : BT TX CH78,2480MHz
Plane : E1

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



5.12 Antenna Requirements

5.12.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no other antenna except assembled by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

5.12.2 Antenna Connected Construction

The antennas used in this product are PIFAs for both WLAN and BT. There are no connector on antenna port and it is considered to meet antenna requirement of FCC.

5.12.3 Antenna Gain

The antenna gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

6. List of Measuring Equipments Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Oct. 19, 2005	Oct. 19, 2006	Conduction (CO01-HY)
LISN	MessTec	NNB-2/16Z	2001/009	9kHz – 30MHz	Apr. 26, 2005	Apr. 26, 2006	Conduction (CO01-HY)
LISN (Support Unit)	MessTec	NNB-2/16Z	2001/004	9kHz – 30MHz	Apr. 20, 2005	Apr. 20, 2006	Conduction (CO01-HY)
EMI Filter	LINDGREN	LRE-2060	1004	< 450Hz	N/A	N/A	Conduction (CO01-HY)
EMI Filter	LINDGREN	N6006	201052	0 – 60Hz	N/A	N/A	Conduction (CO01-HY)
RF Cable-CON	Suhner Switzerland	RG223/U	CB029	9kHz – 30MHz	Dec. 22, 2005	Dec. 22, 2006	Conduction (CO01-HY)
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)

7. Uncertainty Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.10	Normal(k=2)	0.05
Cable loss	0.10	Normal(k=2)	0.05
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.39	Rectangular	0.80
Mismatch	+0.34/-0.35	U-shape	0.24
combined standard uncertainty Uc(y)	1.13		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.26		

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
combined standard uncertainty Uc(y)	1.27		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.54		

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

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