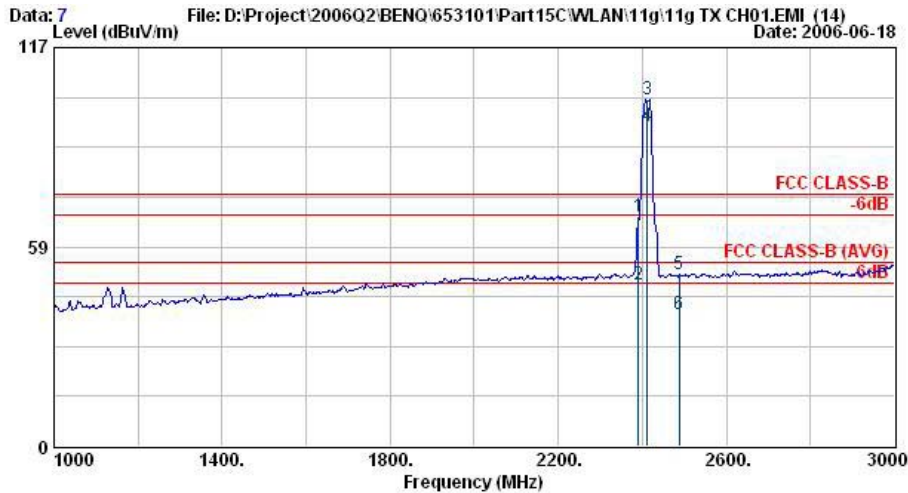




- Polarization : Vertical

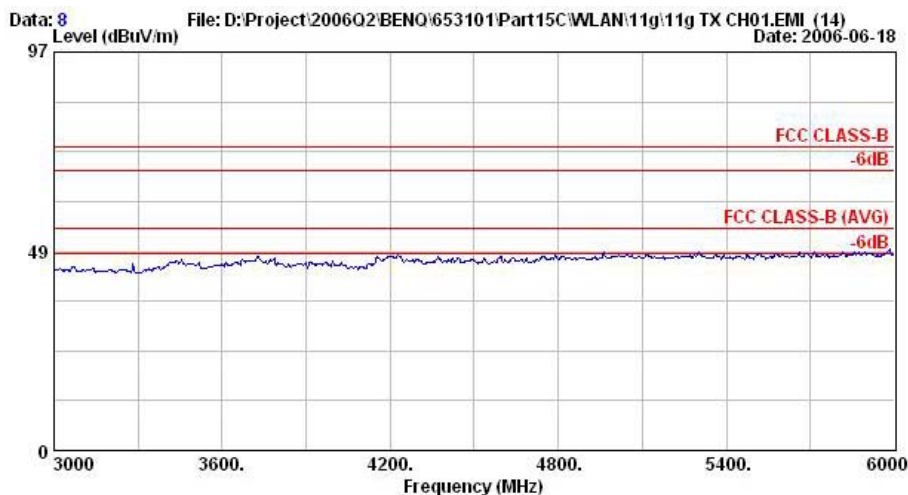
The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH01,2412MHz
 Plane : E2

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	Remark
1	2390.00	67.44	-6.56	74.00	68.38	30.26	4.26	35.46	100	0	Peak
2	2390.00	47.40	-6.60	54.00	48.34	30.26	4.26	35.46	112	18	Average
3 X	2412.00	101.67			102.59	30.27	4.29	35.47	100	0	Peak
4 @	2412.00	93.75			94.68	30.27	4.26	35.46	112	18	Average
5	2488.00	50.52	-23.48	74.00	51.38	30.30	4.36	35.51	100	0	Peak
6	2488.00	38.90	-15.10	54.00	39.75	30.30	4.36	35.51	112	18	Average

Remark: #3 and #4 Fundamental Signal

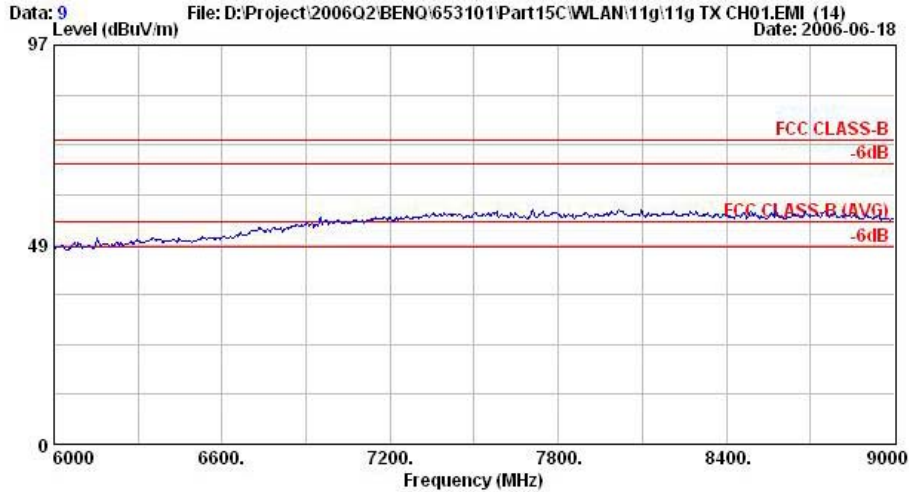


Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH01,2412MHz
 Plane : E2

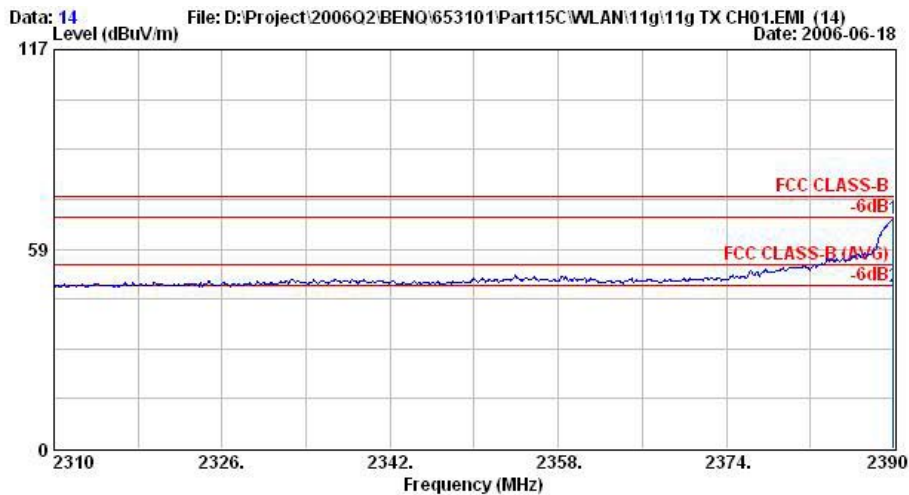


FCC TEST REPORT

Report No. : FR653101



Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH01,2412MHz
 Plane : E2



Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH01,2412MHz
 Plane : E2

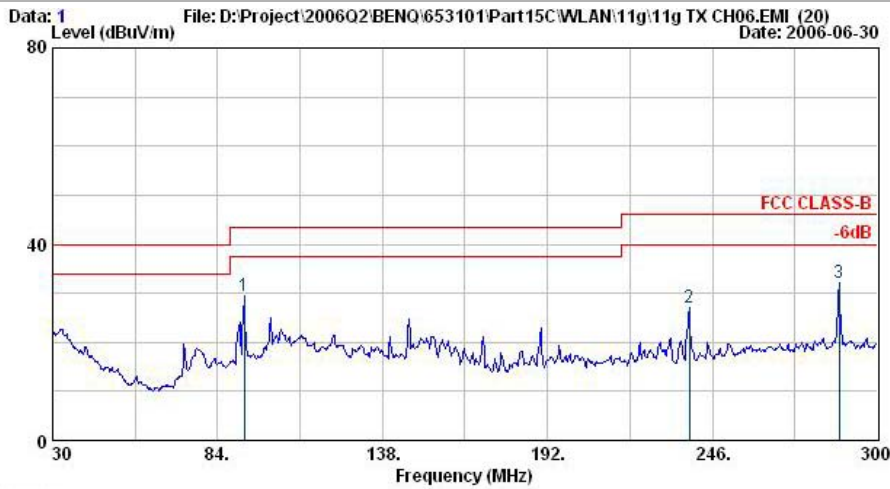
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2389.92	67.44	-6.56	74.00	68.37	30.26	4.26	35.46	100	0	Peak
2	2389.92	47.40	-6.60	54.00	48.34	30.26	4.26	35.46	112	18	Average

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



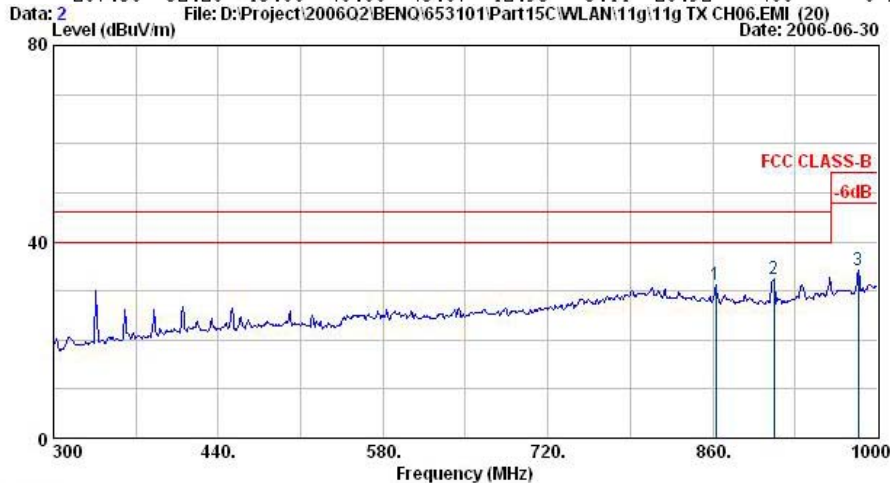
- Test Mode : Mode 5
- Polarization : Horizontal

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 : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH06,2437MHz
 Plane : E2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	92.64	29.56	-13.94	43.50	47.24	9.47	1.67 28.82	400	0	Peak
2	238.44	26.96	-19.04	46.00	42.23	10.87	2.79 28.93	400	0	Peak
3	287.58	32.20	-13.80	46.00	45.07	12.93	3.11 28.92	400	0	Peak



Site : 03CH06-HY
 Condition : BI-LOG-2004-1122 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH06,2437MHz
 Plane : E2

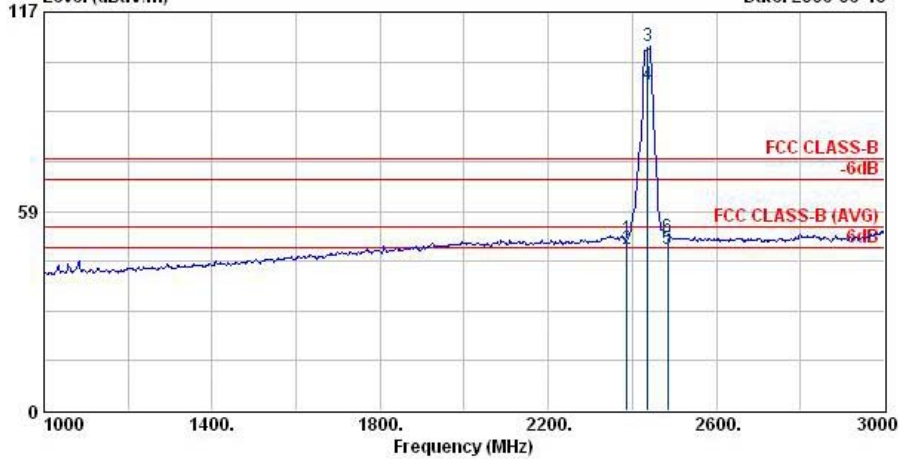
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	862.80	31.35	-14.65	46.00	34.07	20.66	5.65 29.03	100	0	Peak
2	911.80	32.37	-13.63	46.00	35.05	20.29	5.76 28.73	105	330	Peak
3	983.90	34.21	-19.79	54.00	34.52	22.47	6.05 28.82	100	0	Peak



FCC TEST REPORT

Report No. : FR653101

Data: 3 File: D:\Project\2006Q2\BENQ\653101\Part15C\WLAN\11g\11g TX CH06.EMI (20) Date: 2006-06-18
 Level (dBuV/m)

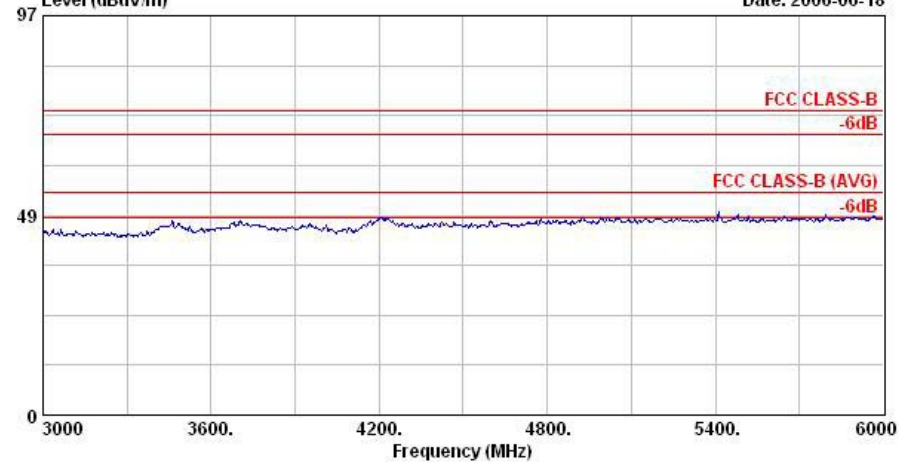


Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH06,2437MHz
 Plane : E2

	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	50.59	-23.41	74.00	51.54	30.26	4.23	35.44	100	360	Peak
2	2388.00	47.38	-6.62	54.00	48.32	30.26	4.26	35.46	100	0	Average
3 X	2437.00	106.81			107.70	30.28	4.33	35.49	100	360	Peak
4 @	2437.00	95.81			96.71	30.28	4.29	35.47	100	0	Average
5	2483.50	47.40	-6.60	54.00	48.26	30.29	4.36	35.51	100	0	Average
6	2483.50	50.72	-23.28	74.00	51.58	30.29	4.36	35.51	100	360	Peak

Remark: #3 and #4 Fundamental Signal

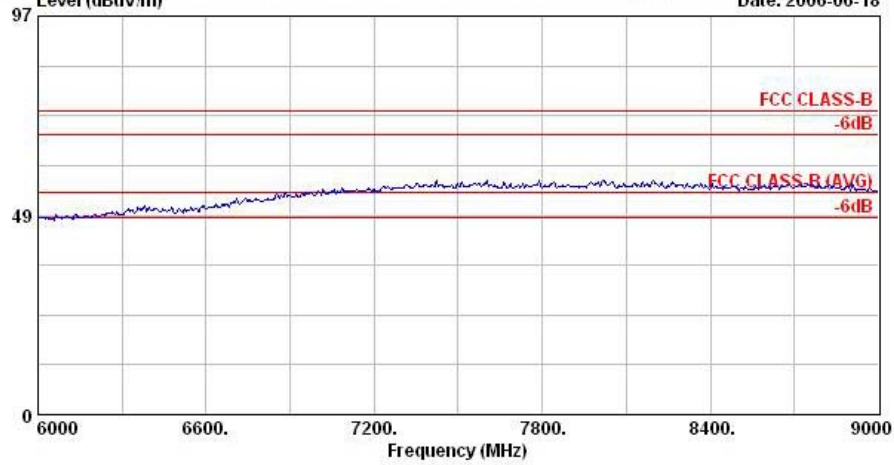
Data: 4 File: D:\Project\2006Q2\BENQ\653101\Part15C\WLAN\11g\11g TX CH06.EMI (20) Date: 2006-06-18
 Level (dBuV/m)



Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH06,2437MHz
 Plane : E2



Data: 5 File: D:\Project\2006Q2\BENQ\653101\Part15C\WLAN\11g\11g TX CH06.EMI (20) Level (dBuV/m) Date: 2006-06-18

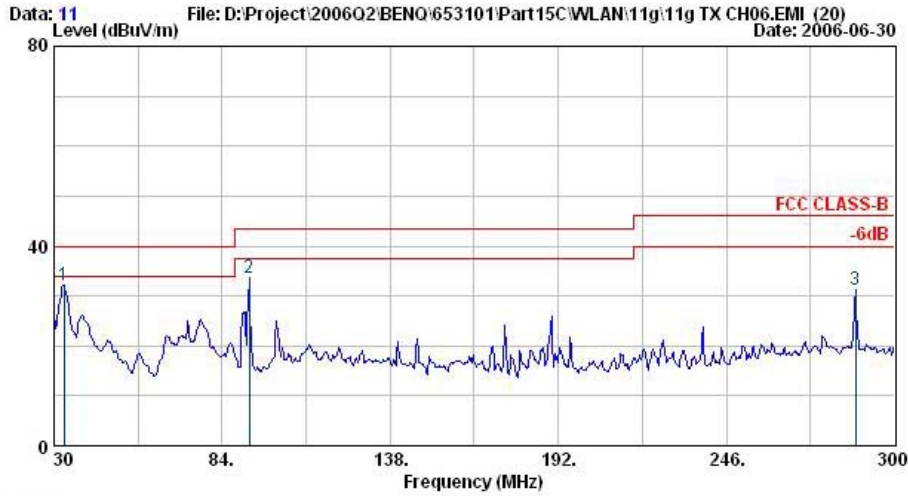


Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
(802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11g TX CH06,2437MHz
Plane : E2



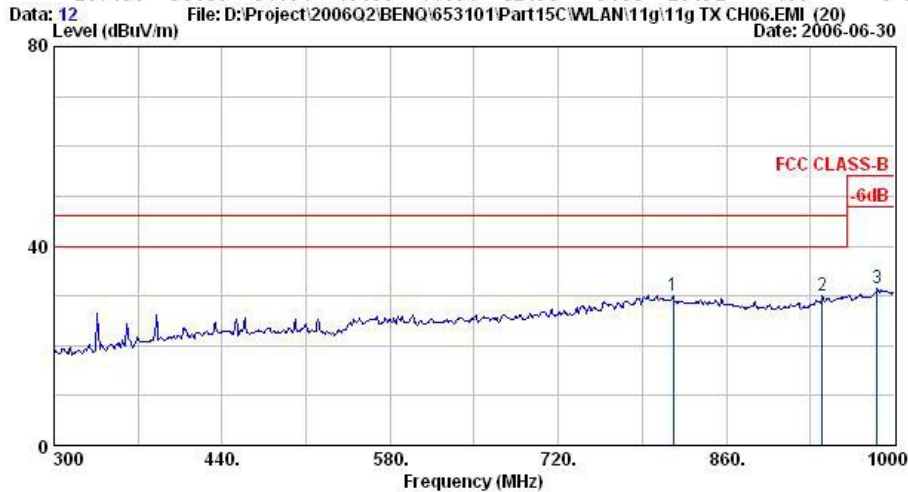
- Polarization : Vertical

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 : GSM850/900/1800/1900 Mobile Phone
(802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 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	33.24	32.21	-7.79	40.00	42.11	17.73	1.01	28.63	125	220 Peak
2	92.64	33.65	-9.85	43.50	51.33	9.47	1.67	28.82	400	0 Peak
3	287.58	31.16	-14.84	46.00	44.04	12.93	3.11	28.92	400	0 Peak



Site : 03CH06-HY
Condition : BI-LOG-2004-1122 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
(802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11g TX CH06;2437MHz
Plane : E2

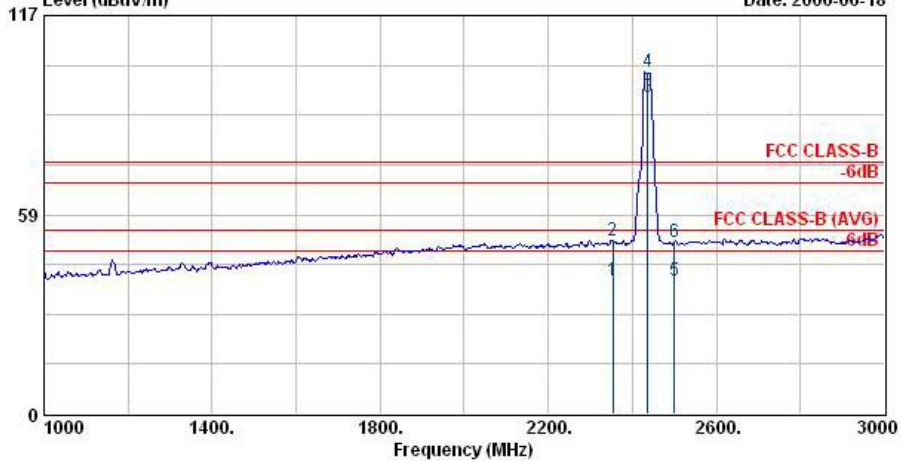
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	815.90	30.13	-15.87	46.00	31.93	21.60	5.56	28.95	100	0 Peak
2	939.80	30.12	-15.88	46.00	31.75	21.15	6.06	28.84	100	0 Peak
3	985.30	31.57	-22.43	54.00	31.78	22.53	6.08	28.81	100	0 Peak



FCC TEST REPORT

Report No. : FR653101

Data: 13 File: D:\Project\2006Q2\BENQ\653101\Part15C\WLAN\11g\11g TX CH06.EMI (20) Date: 2006-06-18
 Level (dBuV/m)

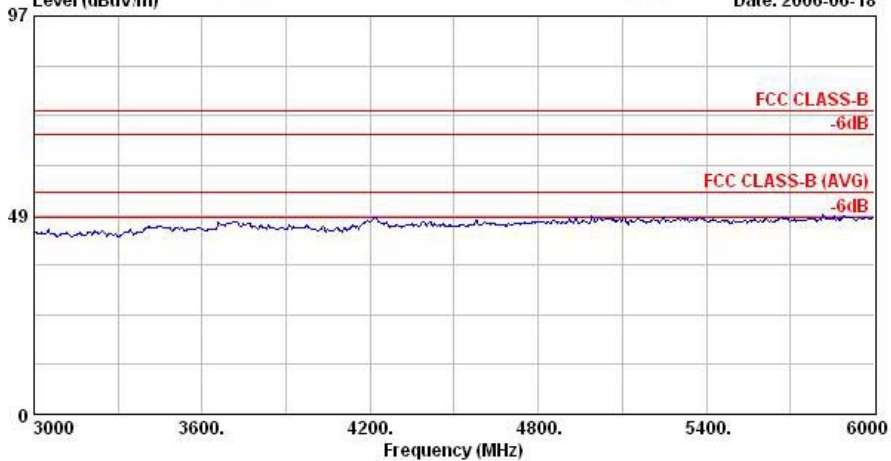


Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH06,2437MHz
 Plane : E2

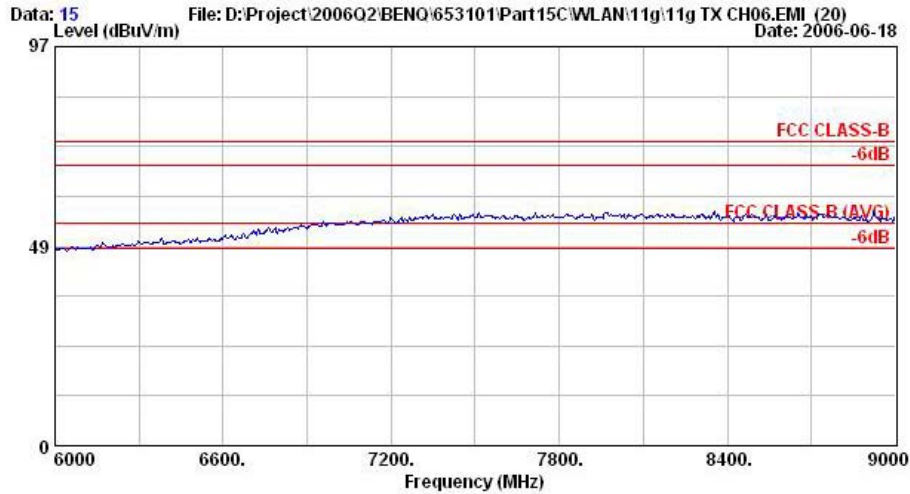
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2354.00	39.10	-14.90	54.00	40.08	30.24	4.20	35.42	109	15	Average
2	2354.00	51.04	-22.96	74.00	52.02	30.24	4.20	35.42	100	360	Peak
3 @	2437.00	92.94			93.84	30.28	4.29	35.47	109	15	Average
4 X	2437.00	100.48			101.39	30.27	4.29	35.47	100	360	Peak
5	2500.00	39.32	-14.68	54.00	40.18	30.29	4.36	35.51	109	15	Average
6	2500.00	50.58	-23.42	74.00	51.42	30.30	4.39	35.53	100	360	Peak

Remark: #3 and #4 Fundamental Signal

Data: 14 File: D:\Project\2006Q2\BENQ\653101\Part15C\WLAN\11g\11g TX CH06.EMI (20) Date: 2006-06-18
 Level (dBuV/m)



Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH06,2437MHz
 Plane : E2



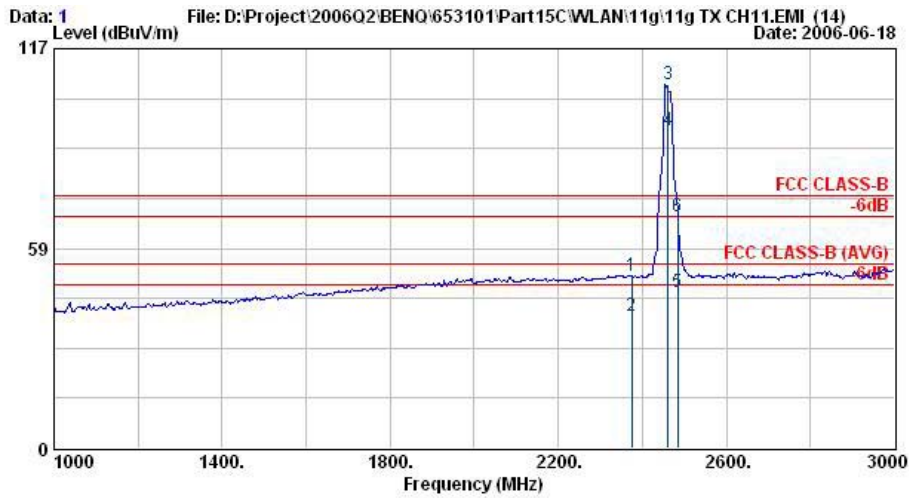
Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11g TX CH06;2437MHz
Plane : E2

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



- Test Mode : Mode 6
- Polarization : Horizontal

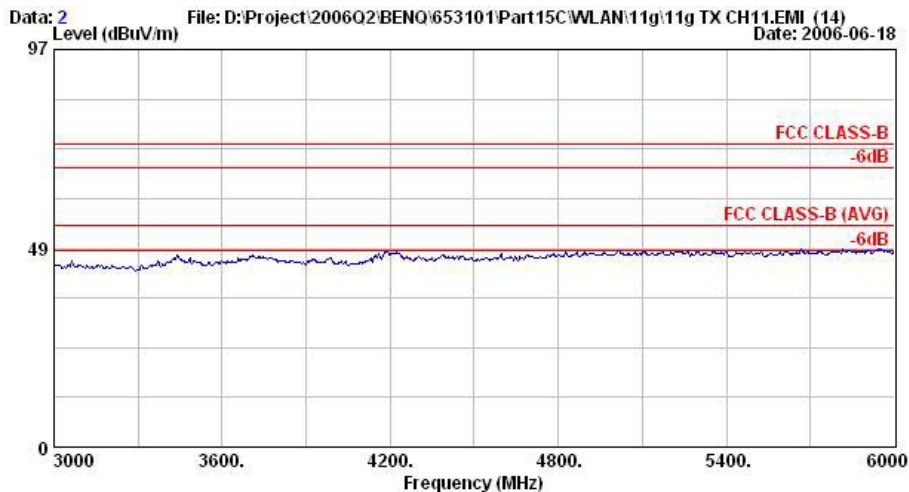
The test that passed at minimum margin is marked by the frame in the following table.



Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH11,2462MHz
 Plane : E2

	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	2374.00	50.64	-23.36	74.00	51.60	30.25	4.23	35.44	100	360	Peak
2	2374.00	38.75	-15.25	54.00	39.71	30.25	4.23	35.44	100	331	Average
3 @	2462.00	106.44			107.32	30.29	4.33	35.49	100	360	Peak
4 @	2462.00	93.27			94.15	30.29	4.33	35.49	100	331	Average
5 @	2483.50	45.86	-8.14	54.00	46.72	30.29	4.36	35.51	100	331	Average
6 @	2483.50	67.70	-6.30	74.00	68.56	30.29	4.36	35.51	100	360	Peak

Remark: #3 and #4 Fundamental Signal



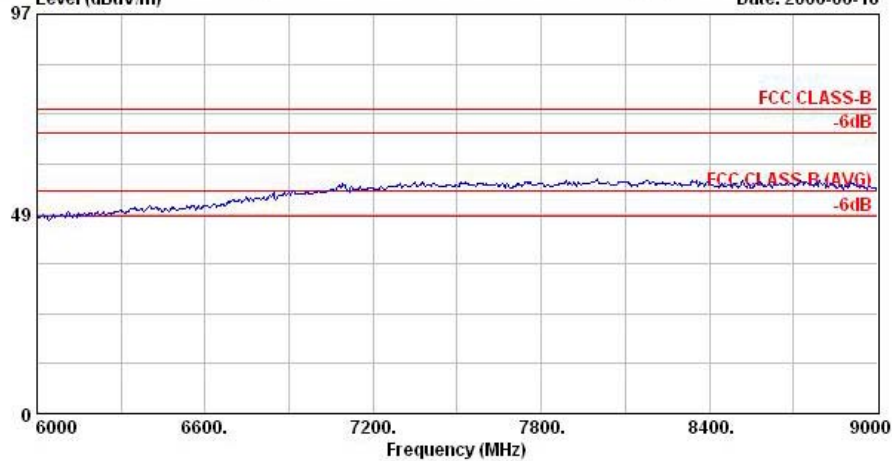
Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH11,2462MHz
 Plane : E2



FCC TEST REPORT

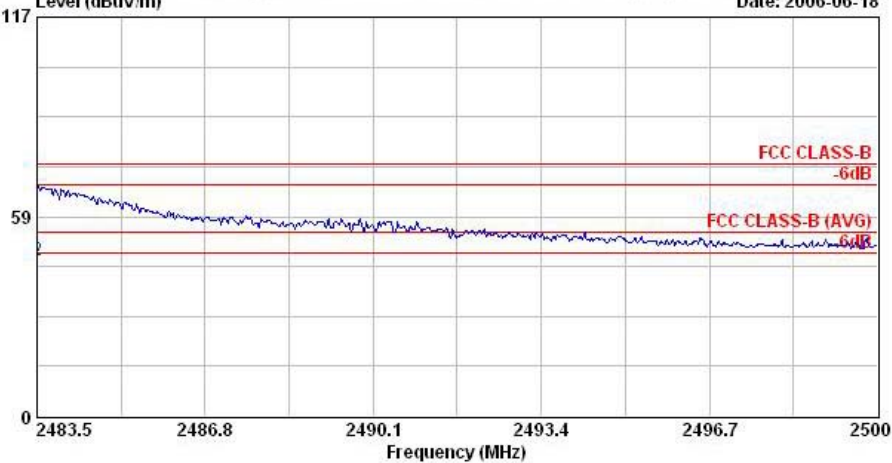
Report No. : FR653101

Data: 3 File: D:\Project\2006Q2\BENQ\653101\Part15C\WLAN\11g\11g TX CH11.EMI (14) Date: 2006-06-18
 Level (dBuV/m)



Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH11,2462MHz
 Plane : E2

Data: 13 File: D:\Project\2006Q2\BENQ\653101\Part15C\WLAN\11g\11g TX CH11.EMI (14) Date: 2006-06-18
 Level (dBuV/m)



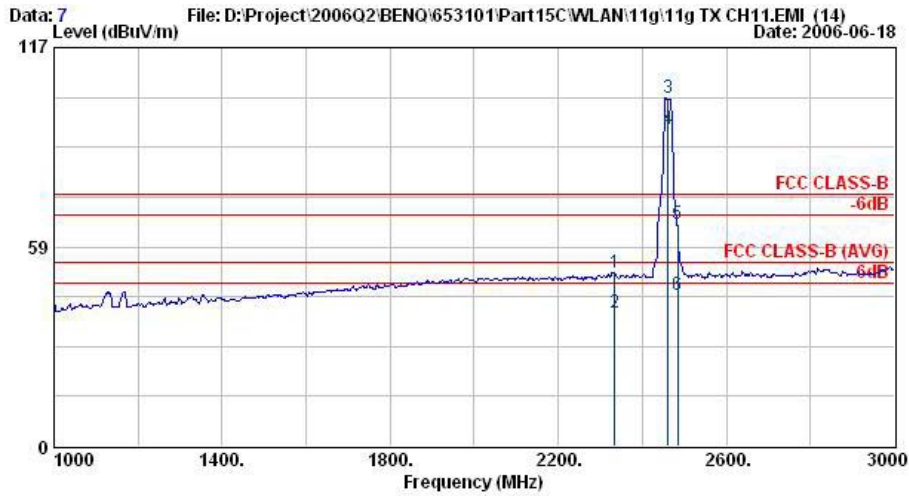
Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH11,2462MHz
 Plane : E2

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2483.50	67.70	-6.30	74.00	68.56	30.29	4.36	35.51	100	0	Peak
2 @	2483.50	45.86	-8.14	54.00	46.72	30.29	4.36	35.51	100	331	Average



- Polarization : Vertical

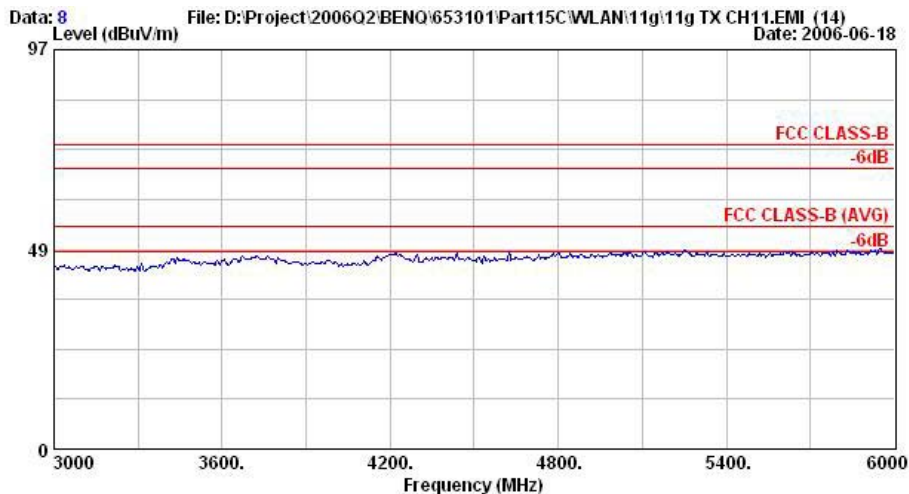
The test that passed at minimum margin was marked by the frame in the following table.



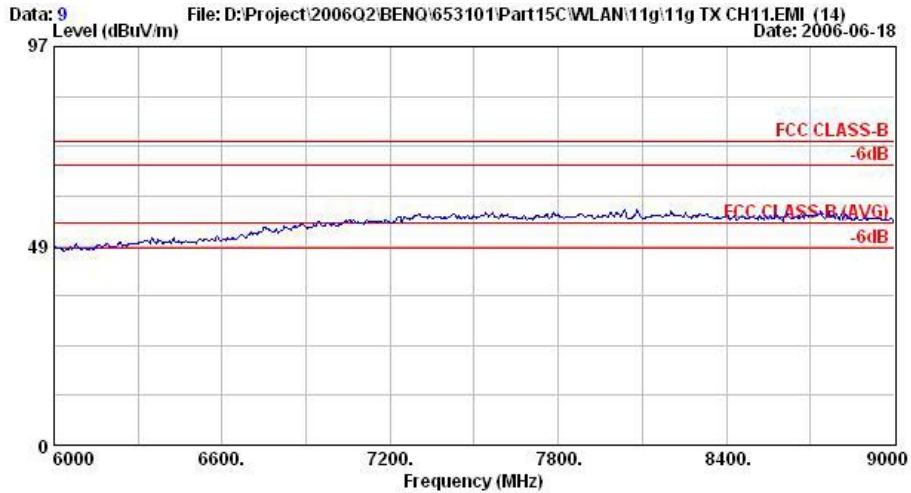
Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH11,2462MHz
 Plane : E2

	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	2334.00	50.76	-23.24	74.00	51.76	30.23	4.17	35.40	100	0 Peak
2	2334.00	39.14	-14.86	54.00	40.14	30.23	4.17	35.40	105	17 Average
3 @	2462.00	102.14			103.02	30.29	4.33	35.49	100	0 Peak
4 @	2462.00	93.03			93.91	30.29	4.33	35.49	105	17 Average
5 @	2483.50	65.16	-8.84	74.00	66.02	30.29	4.36	35.51	100	0 Peak
6	2483.50	44.53	-9.47	54.00	45.39	30.29	4.36	35.51	105	17 Average

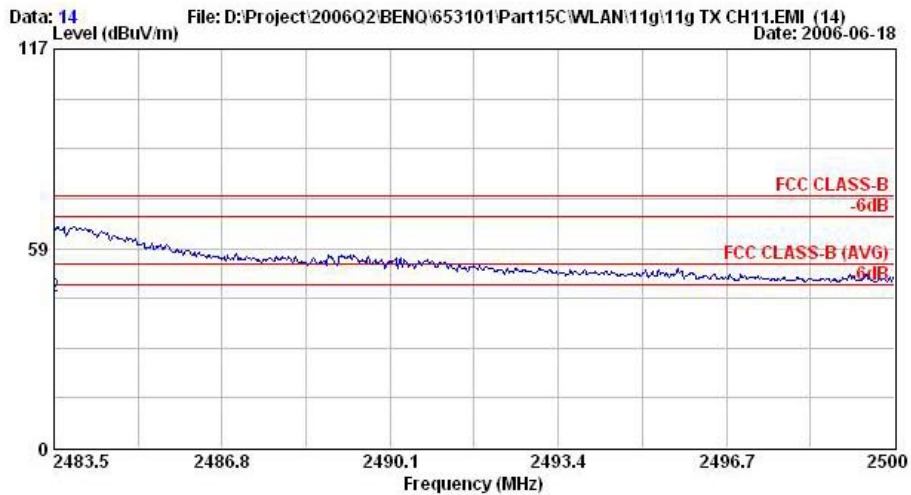
Remark: #3 and #4 Fundamental Signal



Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH11,2462MHz
 Plane : E2



Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH11,2462MHz
 Plane : E2



Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : 11g TX CH11,2462MHz
 Plane : E2

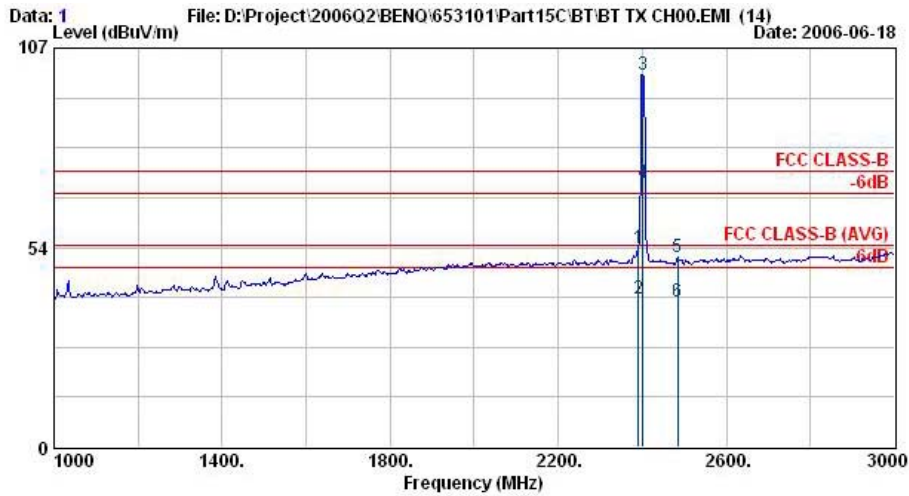
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2483.50	65.16	-8.84	74.00	66.02	30.29	4.36	35.51	100	0	Peak
2	2483.50	44.53	-9.47	54.00	45.39	30.29	4.36	35.51	105	17	Average

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



- Test Mode : Mode 7
- Polarization : Horizontal

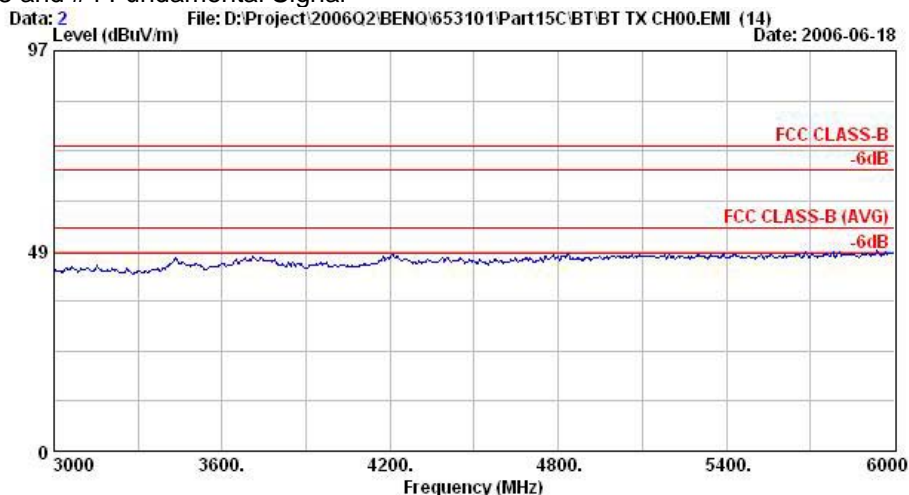
The test that passed at minimum margin was marked by the frame in the following table.



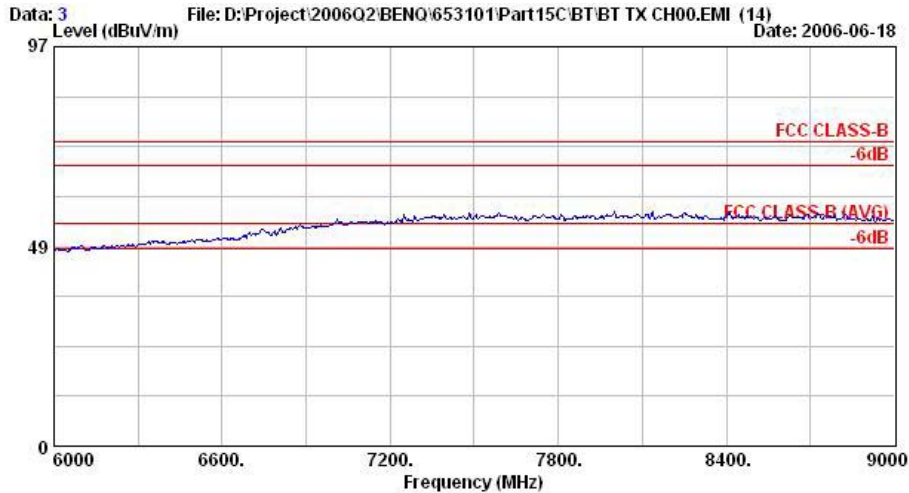
Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH00;2402MHz
 Plane : E2
 Memo : DH1

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	Remark
1	2390.00	53.25	-20.75	74.00	54.19	30.26	4.26	35.46	100	0	Peak
2	2390.00	39.65	-14.35	54.00	40.59	30.26	4.26	35.46	100	338	Average
3 @	2402.00	99.68			100.61	30.26	4.26	35.46	100	0	Peak
4 X	2402.00	70.65			71.59	30.26	4.26	35.46	100	338	Average
5	2483.50	50.93	-23.07	74.00	51.79	30.29	4.36	35.51	100	0	Peak
6	2483.50	39.17	-14.83	54.00	40.03	30.29	4.36	35.51	100	338	Average

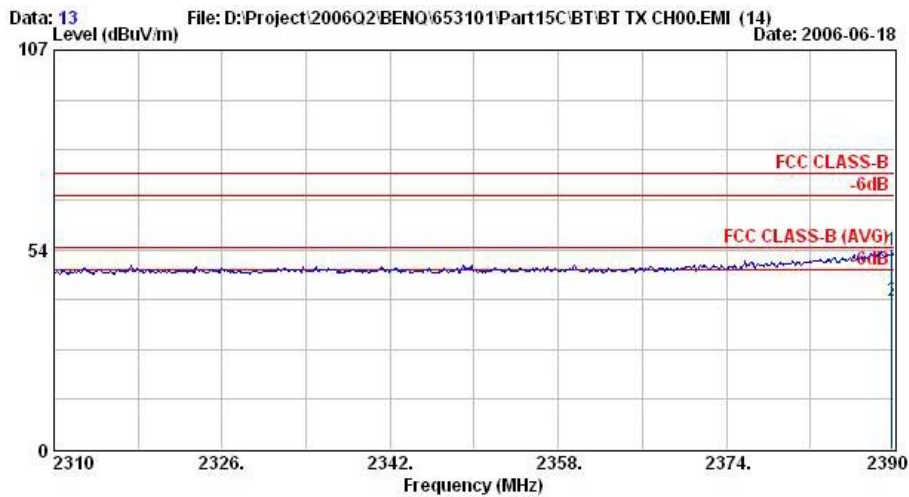
Remark: #3 and #4 Fundamental Signal



Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH00;2402MHz
 Plane : E2
 Memo : DH1



Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH00,2402MHz
 Plane : E2
 Memo : DH1



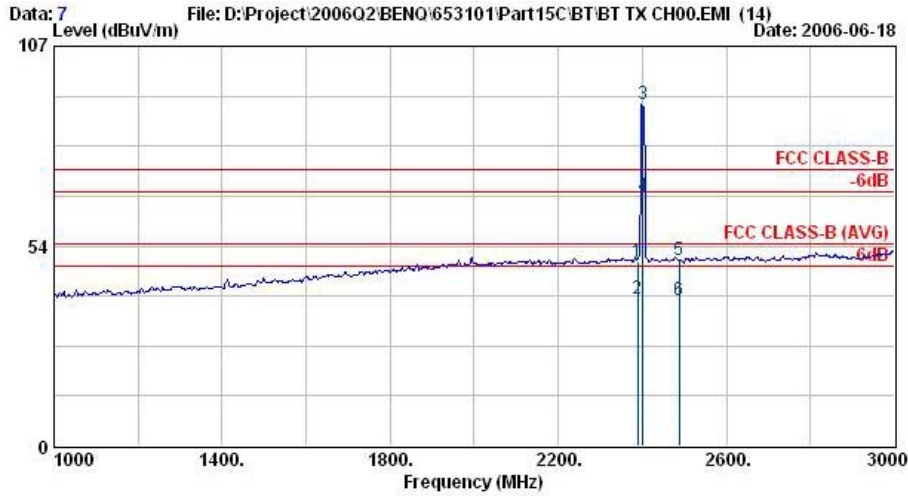
Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH00,2402MHz
 Plane : E2
 Memo : DH1

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2389.76	53.25	-20.75	74.00	54.19	30.26	4.26	35.46	100	0	Peak
2	2389.76	39.65	-34.35	74.00	40.59	30.26	4.26	35.46	100	338	Peak



- Polarization : Vertical

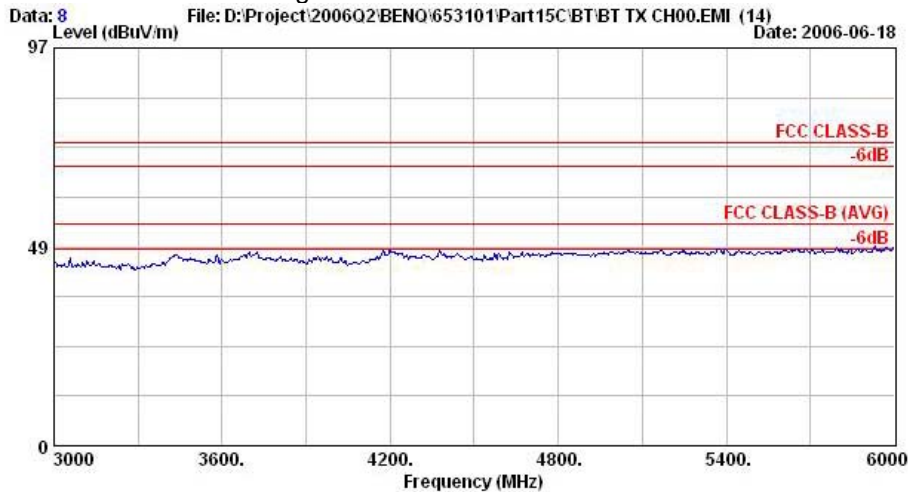
The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH00,2402MHz
 Plane : E2
 Memo : DH1

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2389.00	49.44	-24.56	74.00	50.39	30.26	4.23	35.44	100	0	Peak
2	2389.00	39.26	-14.74	54.00	40.21	30.26	4.23	35.44	100	355	Average
3 X	2402.00	91.38			92.32	30.26	4.26	35.46	100	0	Peak
4 X	2402.00	66.63			67.57	30.26	4.26	35.46	100	355	Average
5	2488.00	49.85	-24.15	74.00	50.70	30.30	4.36	35.51	100	0	Peak
6	2488.00	39.14	-14.86	54.00	39.99	30.30	4.36	35.51	100	355	Average

Remark: #3 and #4 Fundamental Signal



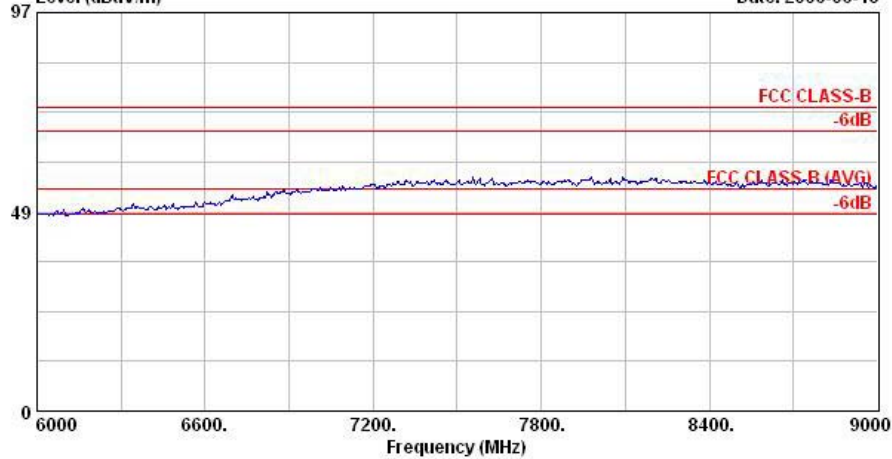
Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH00,2402MHz
 Plane : E2
 Memo : DH1



FCC TEST REPORT

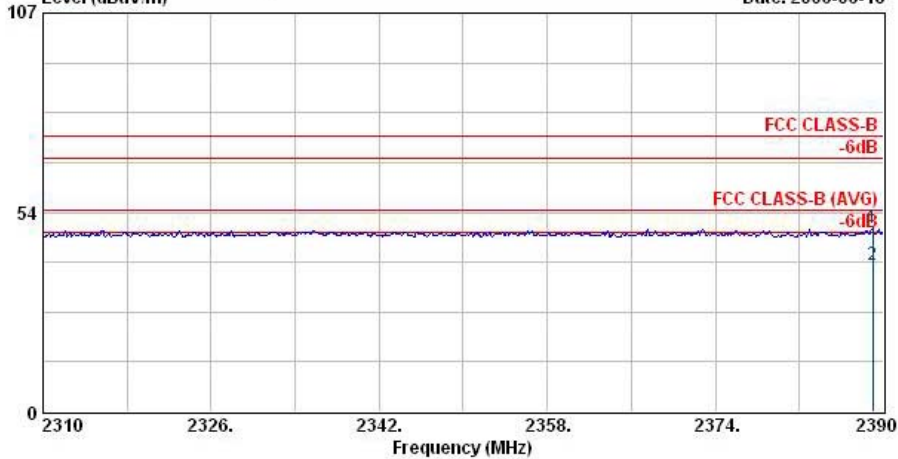
Report No. : FR653101

Data: 9 File: D:\Project\2006Q2\BENQ\653101\Part15C\BT\BT TX CH00.EMI (14) Date: 2006-06-18
 Level (dBuV/m)



Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH00,2402MHz
 Plane : E2
 Memo : DH1

Data: 14 File: D:\Project\2006Q2\BENQ\653101\Part15C\BT\BT TX CH00.EMI (14) Date: 2006-06-18
 Level (dBuV/m)



Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH00,2402MHz
 Plane : E2
 Memo : DH1

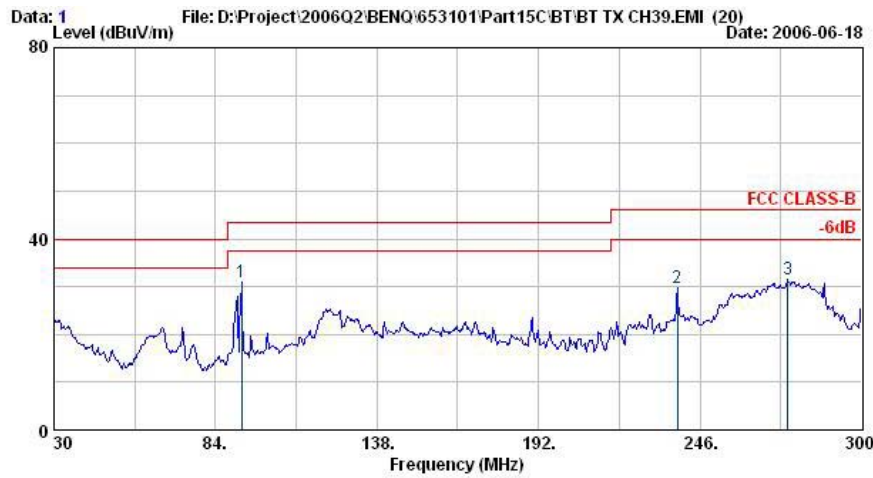
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2388.96	49.44	-24.56	74.00	50.39	30.26	4.23	35.44	100	0	Peak
2	2388.96	39.26	-14.74	54.00	40.21	30.26	4.23	35.44	100	355	Average

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



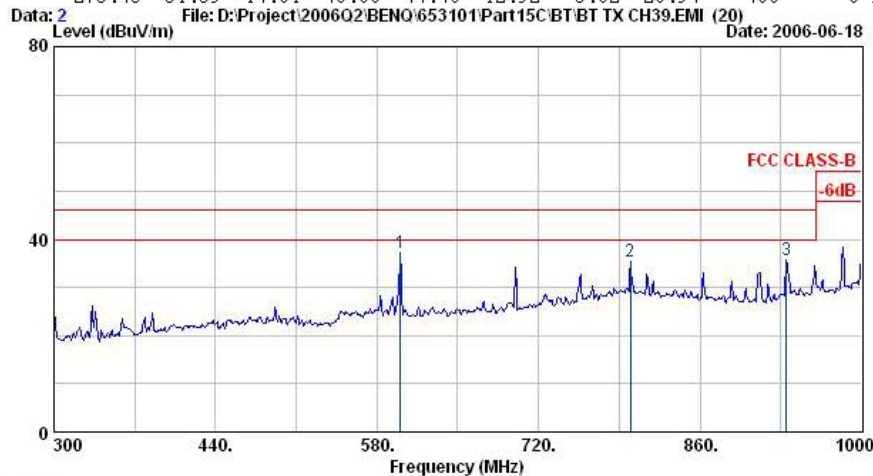
- Test Mode : Mode 8
- Polarization : Horizontal

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 : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH39,2441MHz
 Plane : E2
 Memo : DH1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	92.64	30.89	-12.61	43.50	48.57	9.47	1.67	28.82	400	0 Peak
2	238.44	29.70	-16.30	46.00	44.97	10.87	2.79	28.93	400	0 Peak
3	275.43	31.39	-14.61	46.00	44.40	12.92	3.02	28.94	400	0 Peak



Site : 03CH06-HY
 Condition : BI-LOG-2004-1122 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH39,2441MHz
 Plane : E2
 Memo : DH1

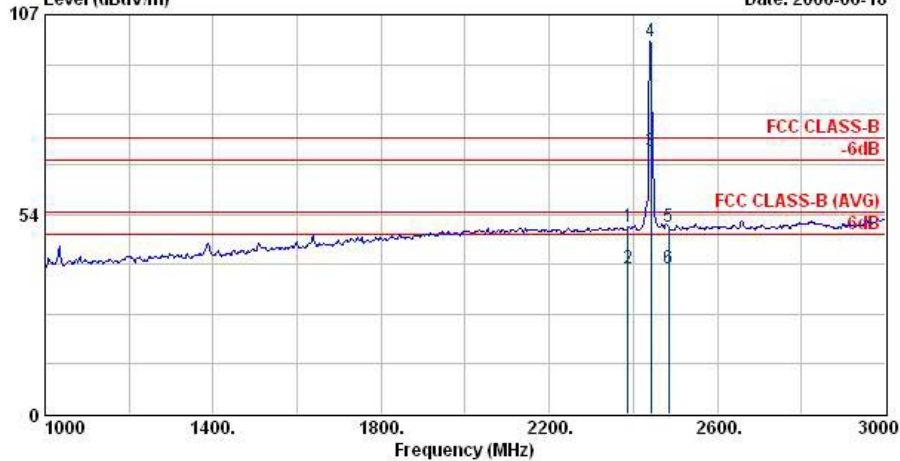
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	600.30	37.21	-8.79	46.00	43.39	17.94	4.65	28.77	100	0 Peak
2 @	799.80	35.27	-10.73	46.00	36.61	21.90	5.62	28.87	100	0 Peak
3 @	934.90	35.77	-10.23	46.00	37.62	21.00	5.97	28.82	100	0 Peak



FCC TEST REPORT

Report No. : FR653101

Data: 3 File: D:\Project\2006Q2\BENQ\653101\Part15C\BT\BT TX CH39.EMI (20) Date: 2006-06-18
 Level (dBuV/m)

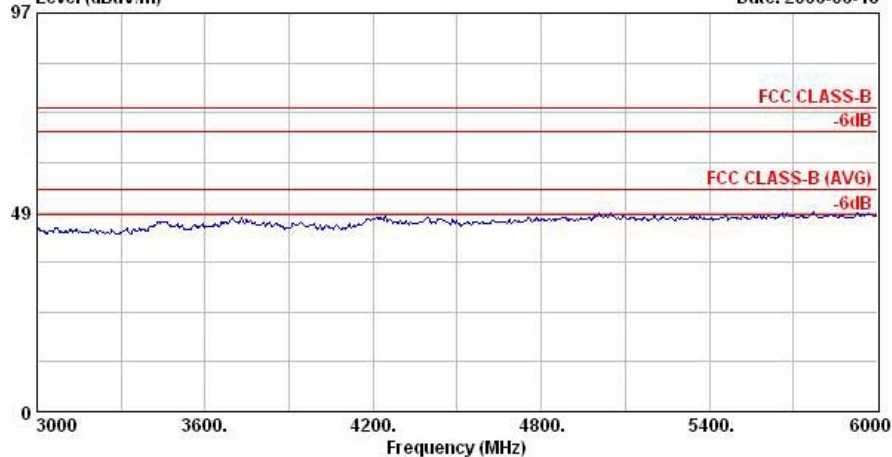


Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH39,2441MHz
 Plane : E2
 Memo : DH1

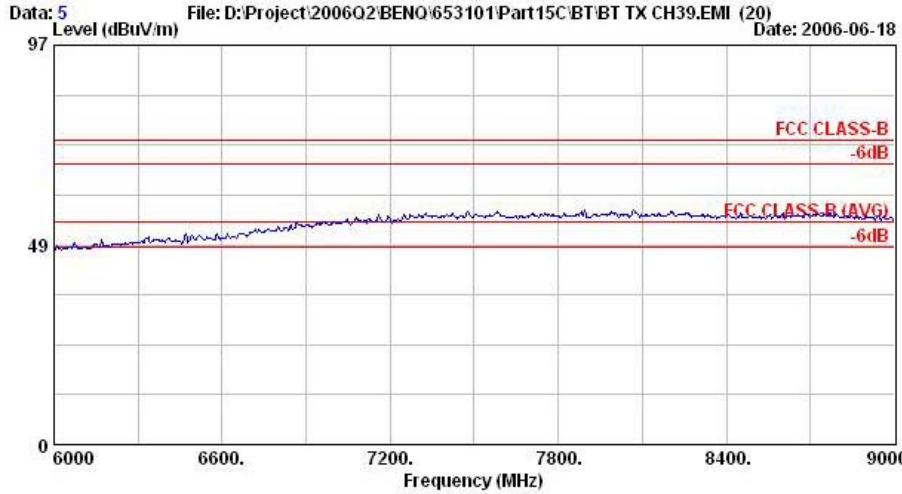
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		
1	2388.00	50.16	-23.84	74.00	51.10	30.26	4.23	35.44	100	360	Peak
2	2388.00	38.94	-15.06	54.00	39.89	30.26	4.23	35.44	100	339	Average
3 @	2441.00	70.49			71.38	30.28	4.33	35.49	100	339	Average
4 @	2441.00	99.74			100.64	30.28	4.29	35.47	100	360	Peak
5	2483.50	50.13	-23.87	74.00	50.99	30.29	4.36	35.51	100	360	Peak
6	2483.50	39.03	-14.97	54.00	39.89	30.29	4.36	35.51	100	339	Average

Remark: #3 and #4 Fundamental Signal

Data: 4 File: D:\Project\2006Q2\BENQ\653101\Part15C\BT\BT TX CH39.EMI (20) Date: 2006-06-18
 Level (dBuV/m)



Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH39,2441MHz
 Plane : E2
 Memo : DH1

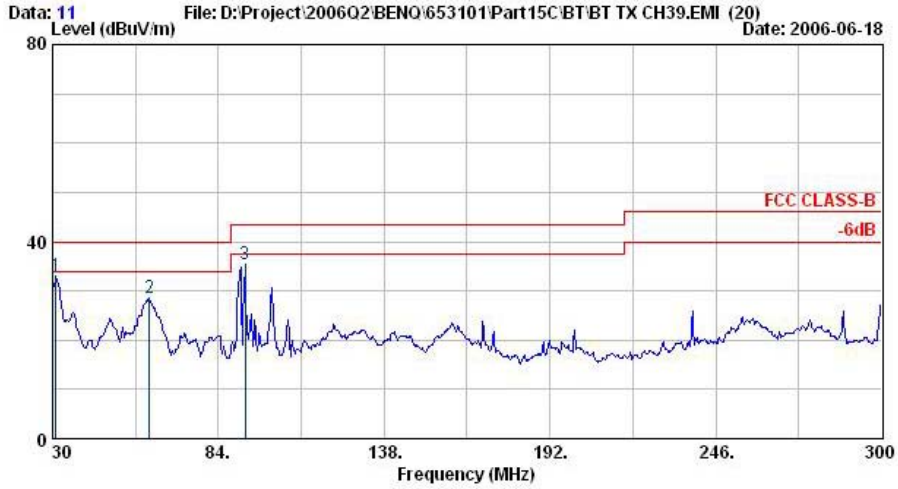


Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : BT TX CH39,2441MHz
Plane : E2
Memo : DH1



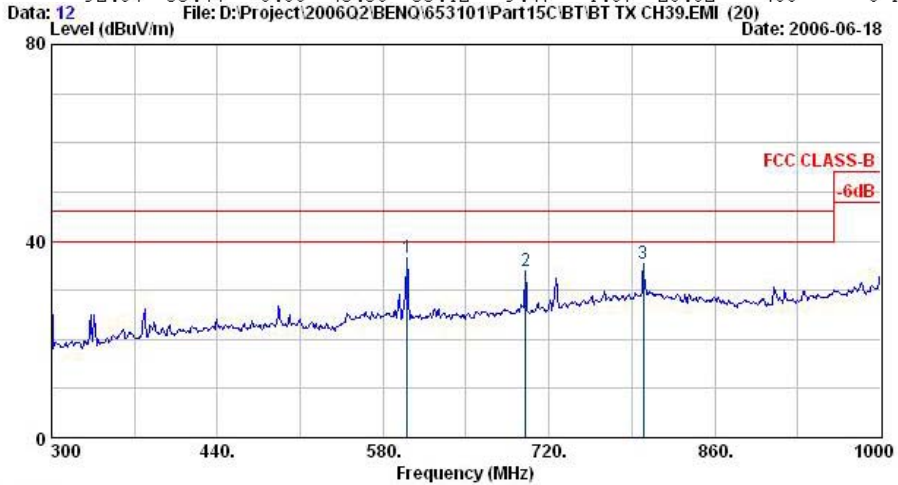
• Polarization : Vertical

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 : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH39,2441MHz
 Plane : E2
 Memo : DH1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	31.08	32.92	-7.08	40.00	42.21	18.40	0.93	28.62	400	0 Peak
2 @	61.59	28.42	-11.58	40.00	49.32	6.51	1.25	28.66	400	0 Peak
3 @	92.64	35.44	-8.06	43.50	53.12	9.47	1.67	28.82	400	0 Peak



Site : 03CH06-HY
 Condition : BI-LOG-2004-1122 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH39,2441MHz
 Plane : E2
 Memo : DH1

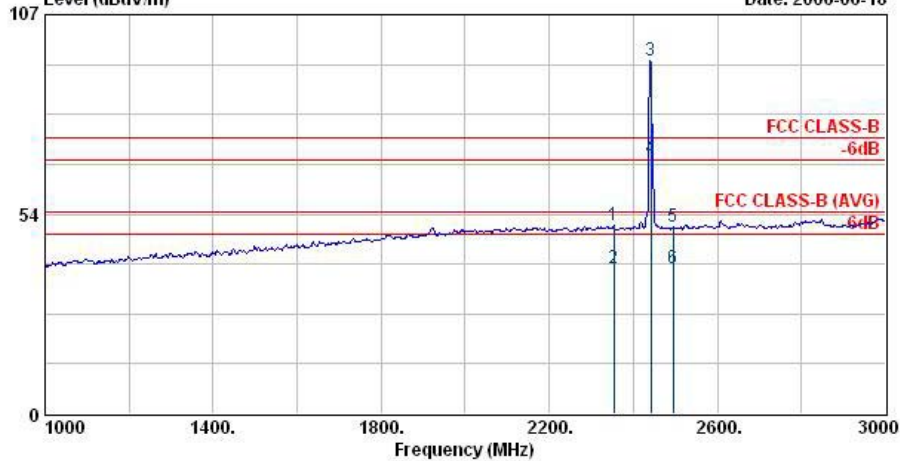
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	600.30	36.58	-9.42	46.00	42.76	17.94	4.65	28.77	100	0 Peak
2 @	700.40	33.95	-12.05	46.00	38.54	19.04	5.13	28.76	100	0 Peak
3 @	799.80	35.46	-10.54	46.00	36.81	21.90	5.62	28.87	100	0 Peak



FCC TEST REPORT

Report No. : FR653101

Data: 13 File: D:\Project\2006Q2\BENQ\653101\Part15C\BT\BT TX CH39.EMI (20) Date: 2006-06-18
 Level (dBuV/m)

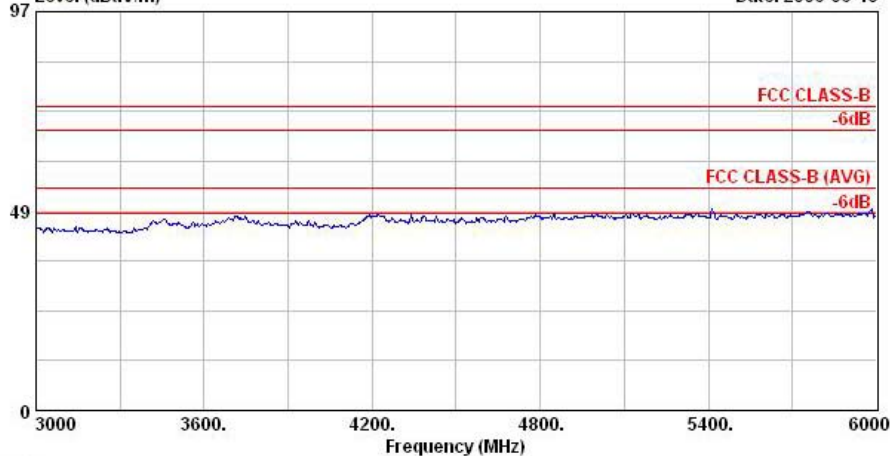


Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH39,2441MHz
 Plane : E2
 Memo : DH1

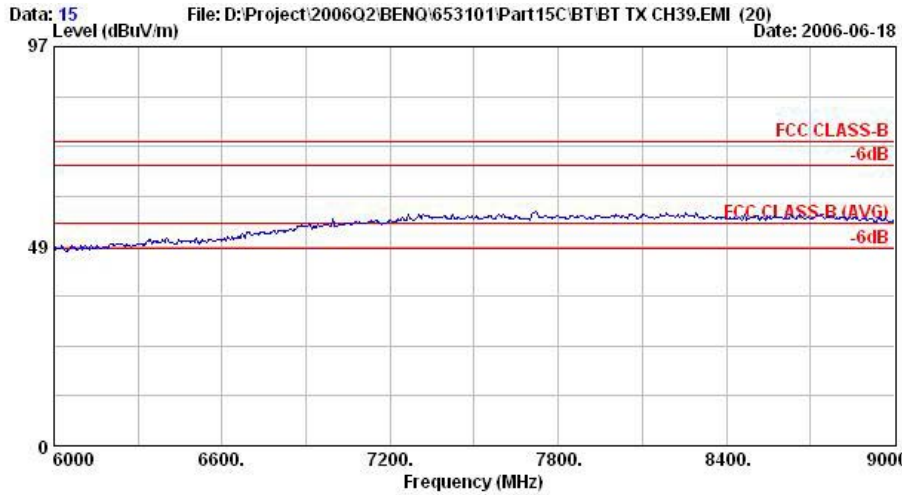
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	2354.00	50.45	-23.55	74.00	51.42	30.24	4.20	35.42	100	0 Peak
2	2354.00	39.01	-14.99	54.00	39.99	30.24	4.20	35.42	117	31 Average
3 @	2441.00	94.86			95.76	30.28	4.29	35.47	100	0 Peak
4 @	2441.00	68.37			69.26	30.28	4.33	35.49	117	31 Average
5	2494.00	50.11	-23.89	74.00	50.95	30.30	4.39	35.53	100	0 Peak
6	2494.00	39.09	-14.91	54.00	39.93	30.30	4.39	35.53	117	31 Average

Remark: #3 and #4 Fundamental Signal

Data: 14 File: D:\Project\2006Q2\BENQ\653101\Part15C\BT\BT TX CH39.EMI (20) Date: 2006-06-18
 Level (dBuV/m)



Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH39,2441MHz
 Plane : E2
 Memo : DH1



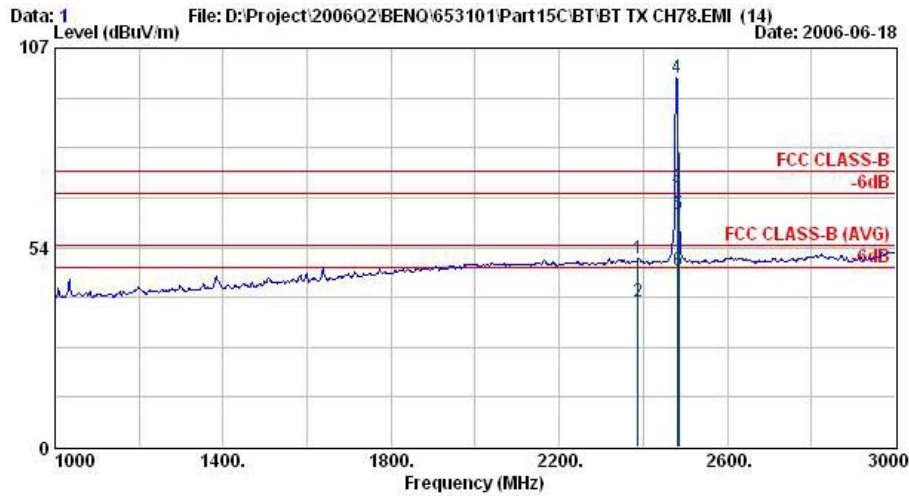
Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
(802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : BT TX CH39,2441MHz
Plane : E2
Memo : DH1

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



- Test Mode : Mode 9
- Polarization : Horizontal

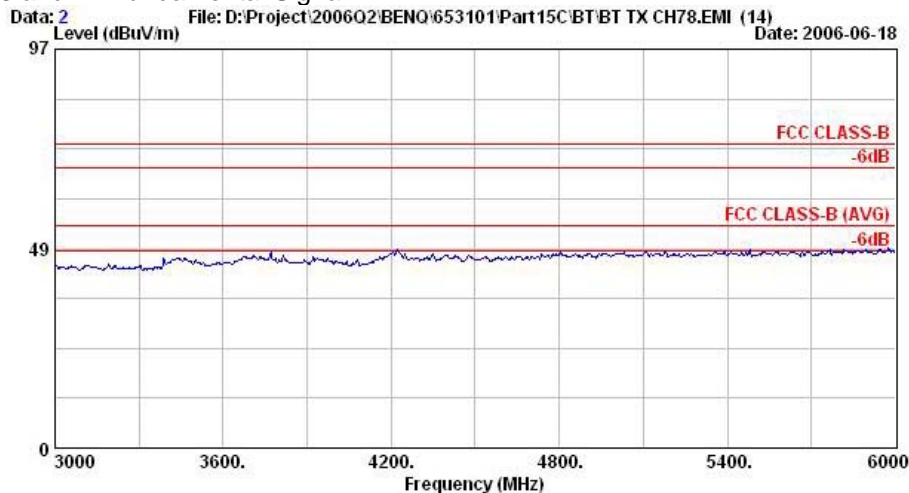
The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH78,2480MHz
 Plane : E2
 Memo : DH1

	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	50.72	-23.28	74.00	51.66	30.26	4.23	35.44	100	0 Peak
2	2388.00	38.99	-15.01	54.00	39.94	30.26	4.23	35.44	100	336 Average
3 @	2480.00	69.71			70.57	30.29	4.36	35.51	100	336 Average
4 @	2480.00	98.91			99.77	30.29	4.36	35.51	100	0 Peak
5	2483.50	62.55	-11.45	74.00	63.41	30.29	4.36	35.51	100	0 Peak
6 @	2483.50	47.37	-6.63	54.00	48.23	30.29	4.36	35.51	100	336 Average

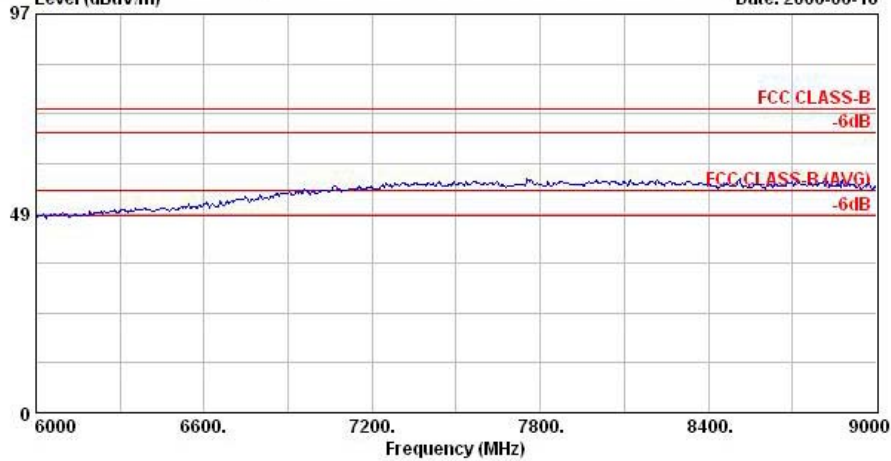
Remark: #3 and #4 Fundamental Signal



Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH78,2480MHz
 Plane : E2
 Memo : DH1

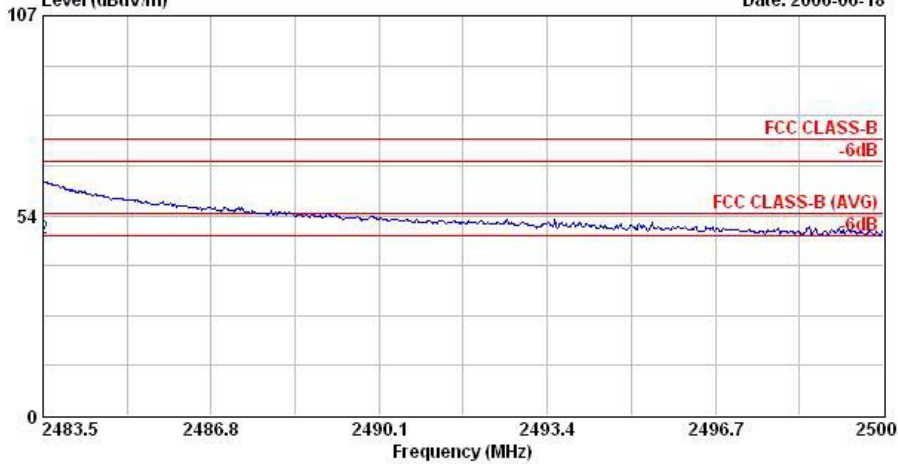


Data: 3 File: D:\Project\2006Q2\BENQ\653101\Part15C\BT\BT TX CH78.EMI (14) Date: 2006-06-18
 Level (dBuV/m)



Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH78;2480MHz
 Plane : E2
 Memo : DH1

Data: 13 File: D:\Project\2006Q2\BENQ\653101\Part15C\BT\BT TX CH78.EMI (14) Date: 2006-06-18
 Level (dBuV/m)



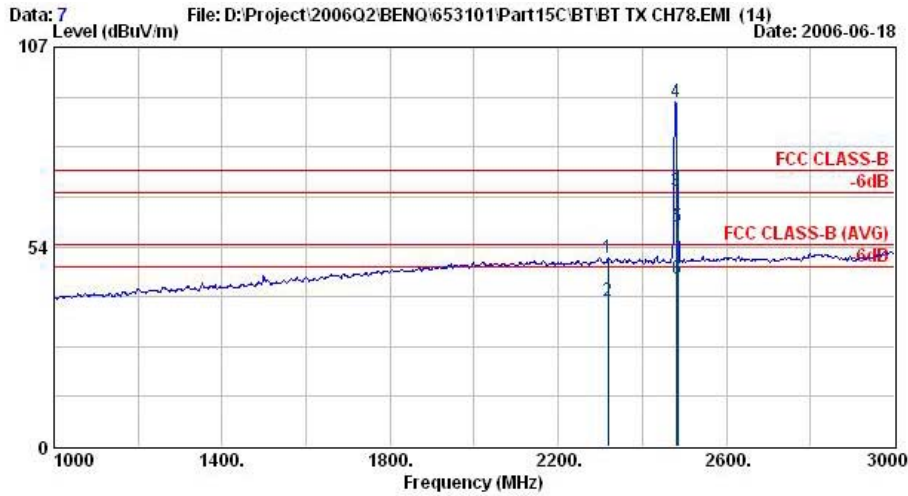
Site : 03CH06-HY
 Condition : HF-ANT-060410 HORIZONTAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH78;2480MHz
 Plane : E2
 Memo : DH1

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor	Pos	Pos	
					dBuV	dB/m	dB	dB	cm	deg	
1	2483.50	62.55	-11.45	74.00	63.41	30.29	4.36	35.51	100	0	Peak
2 @	2483.50	47.37	-6.63	54.00	48.23	30.29	4.36	35.51	100	336	Average



- Polarization : Vertical

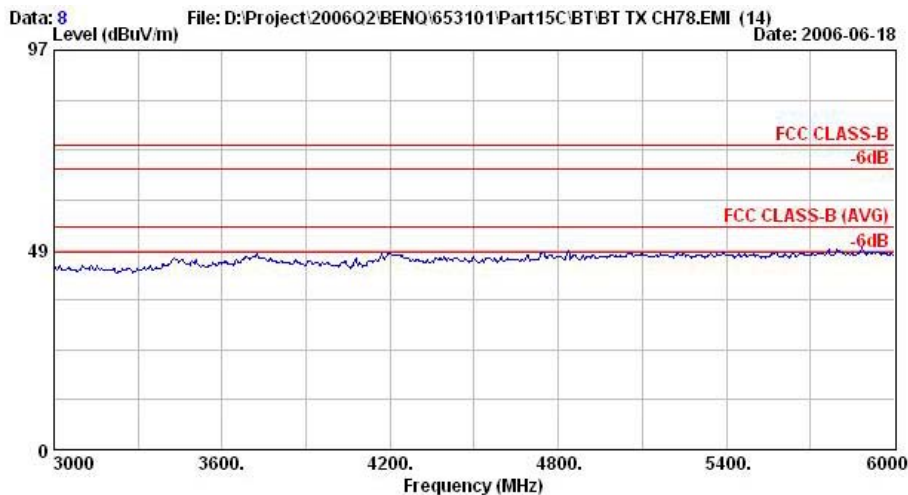
The test that passed at minimum margin was marked by the frame in the following table.



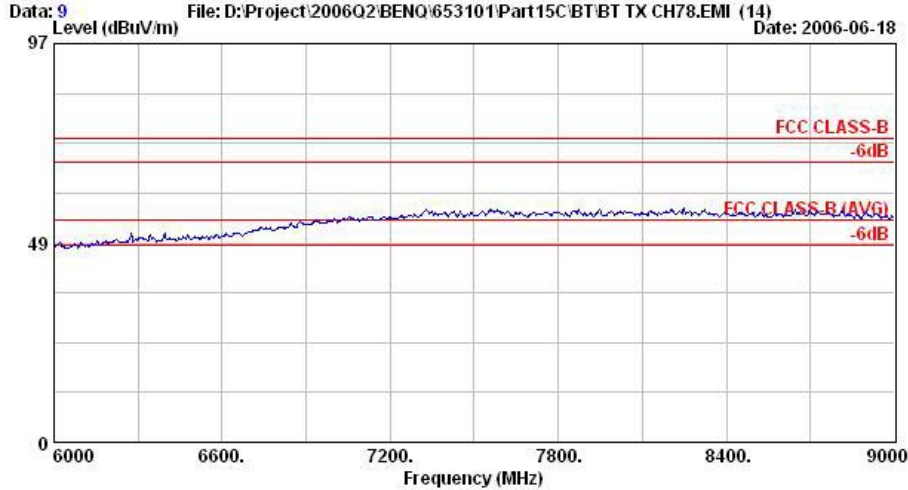
Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH78,2480MHz
 Plane : E2
 Memo : DH1

	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	2318.00	50.32	-23.68	74.00	51.32	30.23	4.17	35.40	100	0	Peak
2	2318.00	38.93	-15.07	54.00	39.93	30.23	4.17	35.40	110	29	Average
3 @	2480.00	68.55			69.41	30.29	4.36	35.51	110	29	Average
4 @	2480.00	92.36			93.22	30.29	4.36	35.51	100	0	Peak
5	2483.50	58.85	-15.15	74.00	59.71	30.29	4.36	35.51	100	0	Peak
6 @	2483.50	45.01	-8.99	54.00	45.87	30.29	4.36	35.51	110	29	Average

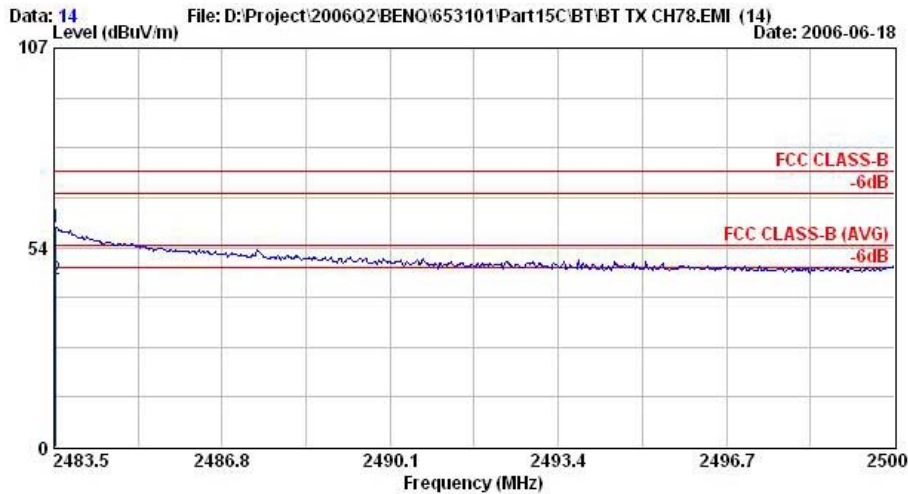
Remark: #3 and #4 Fundamental Signal



Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH78,2480MHz
 Plane : E2
 Memo : DH1



Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH78,2480MHz
 Plane : E2
 Memo : DH1



Site : 03CH06-HY
 Condition : HF-ANT-060410 VERTICAL
 EUT : GSM850/900/1800/1900 Mobile Phone
 : (802.11b and Bluetooth and GPS)
 Power : 120Vac/60Hz
 Model : FR653101
 Memo : BT TX CH78,2480MHz
 Plane : E2
 Memo : DH1

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2483.53	58.85	-15.15	74.00	59.71	30.29	4.36	35.51	100	0	Peak
2 @	2483.53	45.01	-8.99	54.00	45.87	30.29	4.36	35.51	110	29	Average

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 Patch antennas for both WLAN and BT without antenna connector 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	Feb. 22, 2006	Feb. 22, 2007	Conduction (CO01-HY)
LISN	MessTec	NNB-2/16Z	2001/009	9kHz – 30MHz	Mar. 29, 2006	Mar. 29, 2007	Conduction (CO01-HY)
LISN (Support Unit)	MessTec	NNB-2/16Z	2001/004	9kHz – 30MHz	Apr. 19, 2006	Apr. 19, 2007	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	Dec. 22, 2005	Dec. 22, 2006	Radiation (03CH06-HY)
Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 25, 2005	Jul. 24, 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	Nov. 22, 2004	Nov. 22, 2006	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Feb. 1, 2005	Feb. 1, 2007	Radiation (03CH06-HY)
HF Amplifier	MITEQ	AFS44	973248	0.1G - 26.5G	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				