



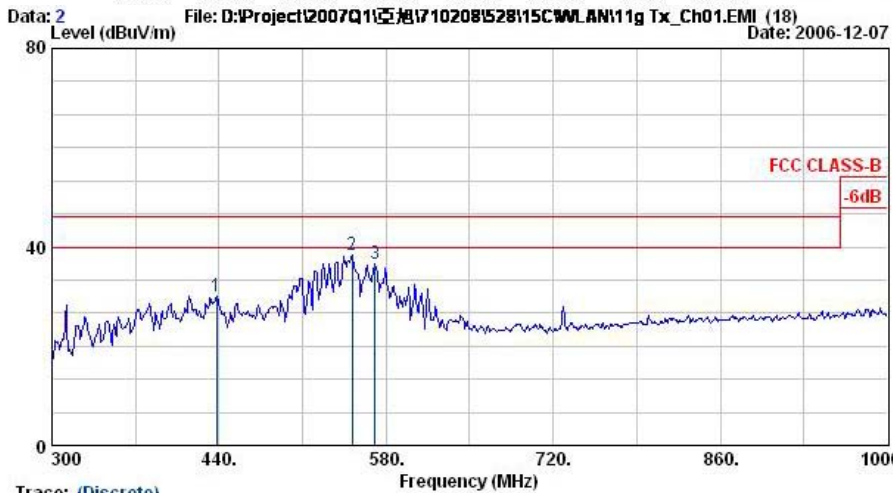
- Test Mode : Mode 4
- Polarization : Horizontal

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



Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_CM01;2412MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	30.0	20.69	-19.31	40.00	31.65	19.66	0.84	31.46	---	Peak
2	72.4	17.74	-22.26	40.00	40.53	7.06	1.32	31.16	---	Peak
3	146.6	23.15	-20.35	43.50	42.07	10.35	1.80	31.06	---	Peak

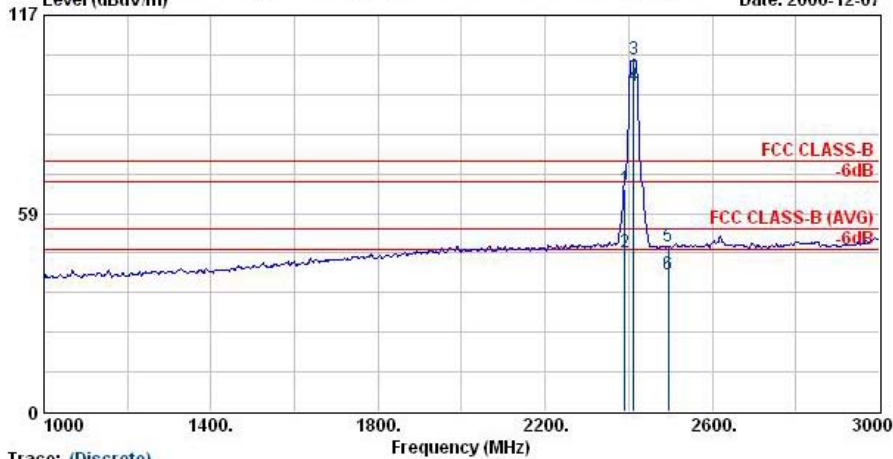


Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	437.90	30.15	-15.85	46.00	41.31	16.40	3.27	30.83	---	Peak
2 @	551.30	38.44	-7.56	46.00	47.48	17.96	3.73	30.73	100	225 Peak
3	570.90	36.65	-9.35	46.00	45.40	18.17	3.79	30.70	---	Peak



Data: 3 File: D:\Project\2007Q1\亞旭\710208\52815C\WLAN\11g Tx\_Ch01.EMI (18) Date: 2006-12-07



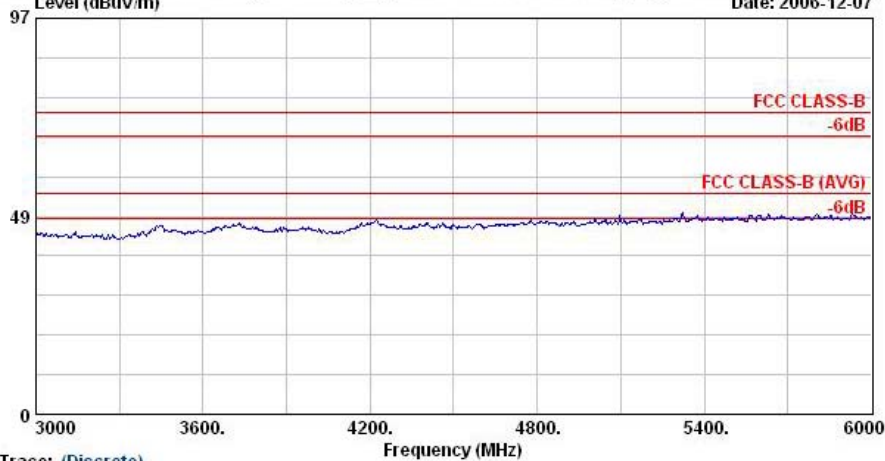
Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : HF-ANT-060410 HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6

	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	2390.0	65.88	-8.12	74.00	67.33	30.26	3.75	35.46	100	0	Peak
2	2390.0	46.86	-7.14	54.00	48.31	30.26	3.75	35.46	128	95	Average
3 @	2412.0	103.94			105.36	30.27	3.77	35.46	100	0	Peak
4 @	2412.0	96.13			97.55	30.27	3.77	35.46	128	95	Average
5	2494.0	48.73	-25.27	74.00	50.08	30.30	3.88	35.53	100	0	Peak
6	2494.0	40.27	-13.73	54.00	41.62	30.30	3.88	35.53	128	95	Average

Remark: #3 and #4 Fundamental Signal

Data: 4 File: D:\Project\2007Q1\亞旭\710208\52815C\WLAN\11g Tx\_Ch01.EMI (18) Date: 2006-12-07

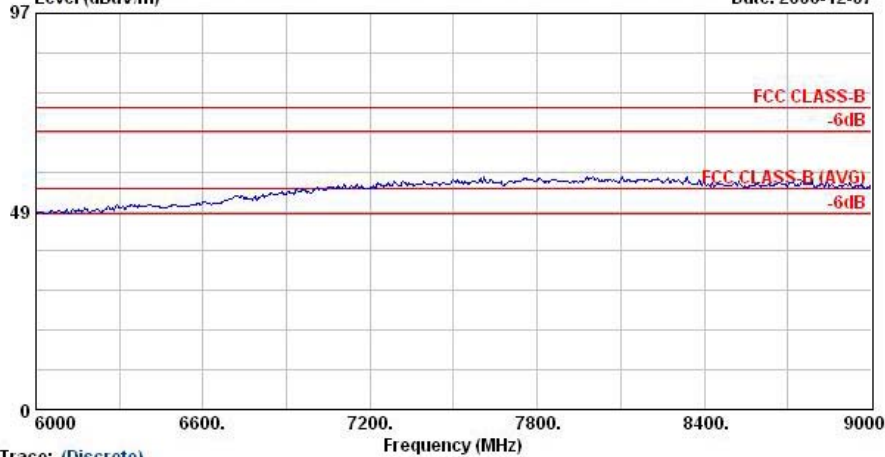


Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : HF-ANT-060410 HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6



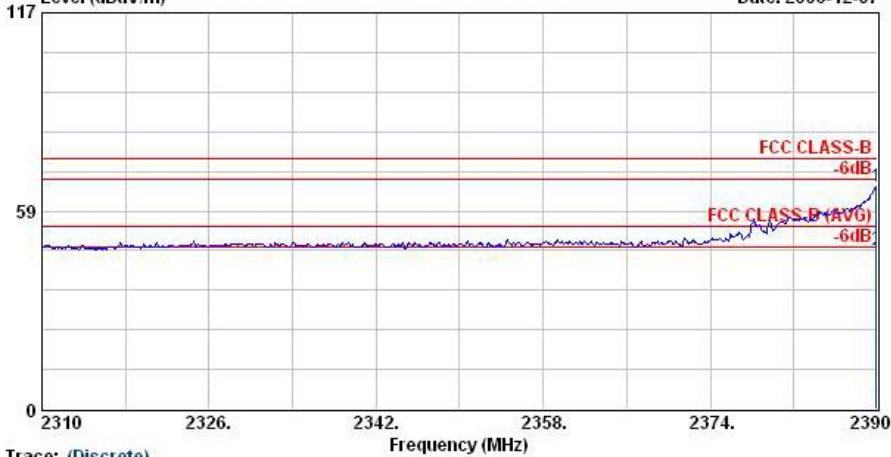
Data: 5 File: D:\Project\2007Q1\亞旭\710208\52815C\WLAN\11g Tx\_Ch01.EMI (18) Date: 2006-12-07  
 Level (dBuV/m)



Trace: (Discrete)

Site : 09CH06-HY  
 Condition : HF-ANT-060410 HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01,2412MHz  
 Plane : E2  
 Data Rate : 6

Data: 17 File: D:\Project\2007Q1\亞旭\710208\52815C\WLAN\11g Tx\_Ch01.EMI (18) Date: 2006-12-07  
 Level (dBuV/m)



Trace: (Discrete)

Site : 09CH06-HY  
 Condition : HF-ANT-060410 HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01,2412MHz  
 Plane : E2  
 Data Rate : 6

	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	2389.9	65.88	-8.12	74.00	67.32	30.26	3.75	35.46	100	0	Peak
2	2389.9	46.86	-7.14	54.00	48.31	30.26	3.75	35.46	128	95	Average



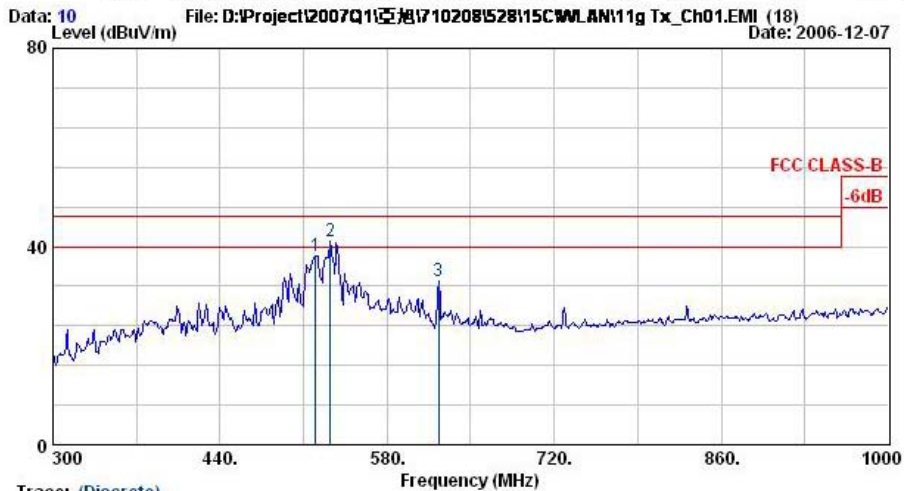
- Polarization : Vertical

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



Trace: (Discrete)  
 Site : 08CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	33.2	28.74	-11.26	40.00	41.69	17.54	0.86	31.36	---	Peak
2	37.8	27.70	-12.30	40.00	43.48	14.56	0.90	31.24	---	Peak
3	72.4	25.31	-14.69	40.00	48.09	7.06	1.32	31.16	---	Peak

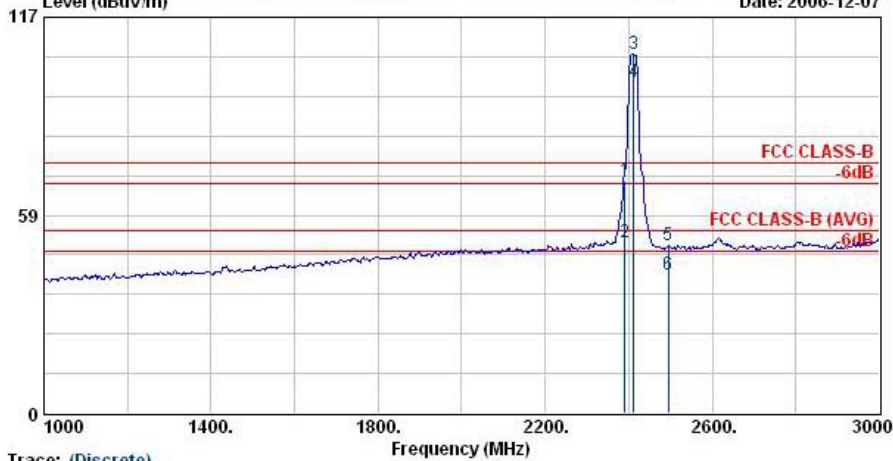


Trace: (Discrete)  
 Site : 08CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	519.8	38.19	-7.81	46.00	47.72	17.63	3.60	30.77	---	Peak
2	532.4	41.07	-4.93	46.00	50.41	17.76	3.65	30.75	100	0 Peak
3	623.4	32.88	-13.12	46.00	40.98	18.57	3.99	30.66	---	Peak



Data: 11 File: D:\Project\2007Q1\亞旭\710208\52815C\WLAN\11g Tx\_Ch01.EMI (18) Date: 2006-12-07



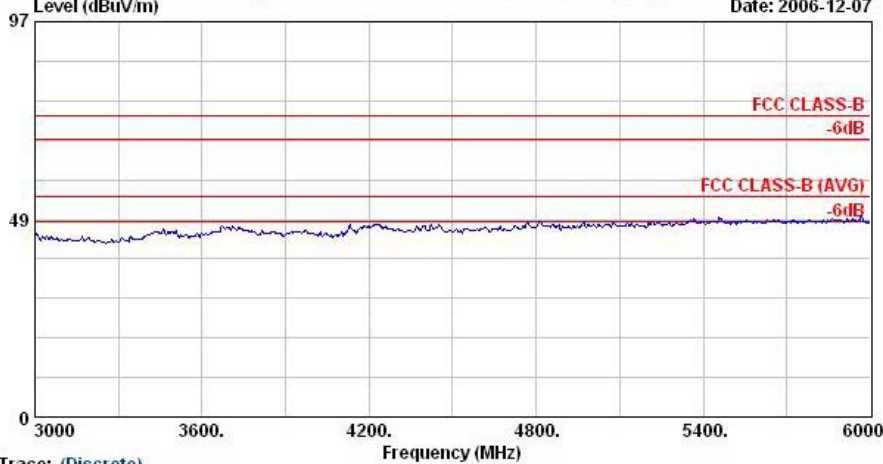
Trace: (Discrete)

Site : 08CH06-HY  
 Condition : HP-ANT-060410 VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6

	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	2390.0	68.53	-5.47	74.00	69.98	30.26	3.75	35.46	100	0	Peak
2	2390.0	50.47	-3.53	54.00	51.92	30.26	3.75	35.46	121	265	Average
3	2412.0	106.25			107.67	30.27	3.77	35.46	100	0	Peak
4	2412.0	97.71			99.13	30.27	3.77	35.46	121	265	Average
5	2494.0	49.51	-24.49	74.00	50.86	30.30	3.88	35.53	100	0	Peak
6	2494.0	40.82	-13.18	54.00	42.17	30.30	3.88	35.53	121	265	Average

Remark: #3 and #4 Fundamental Signal

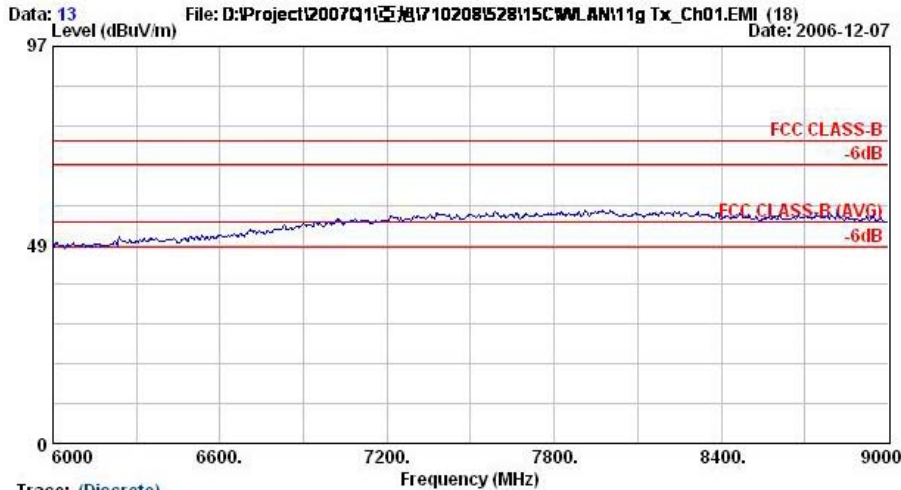
Data: 12 File: D:\Project\2007Q1\亞旭\710208\52815C\WLAN\11g Tx\_Ch01.EMI (18) Date: 2006-12-07



Trace: (Discrete)

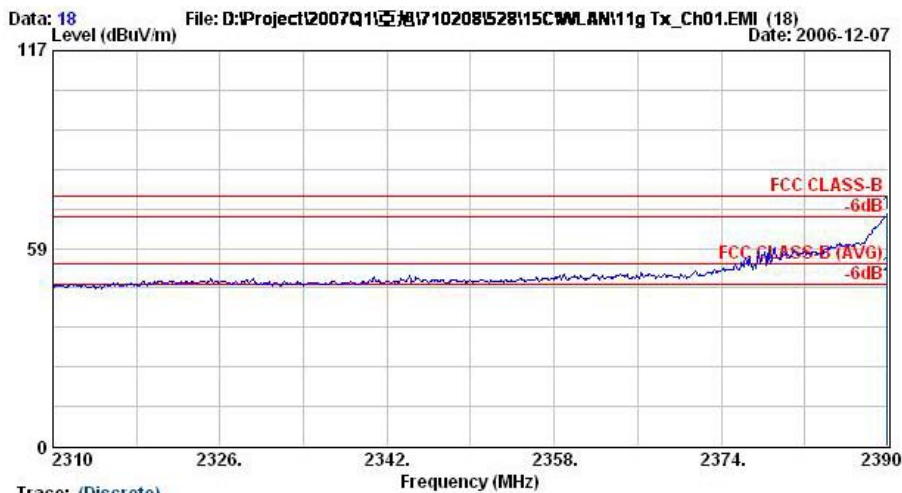
Site : 08CH06-HY  
 Condition : HP-ANT-060410 VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6





Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : HF-ANT-060410 VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Wac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6



Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : HF-ANT-060410 VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Wac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6

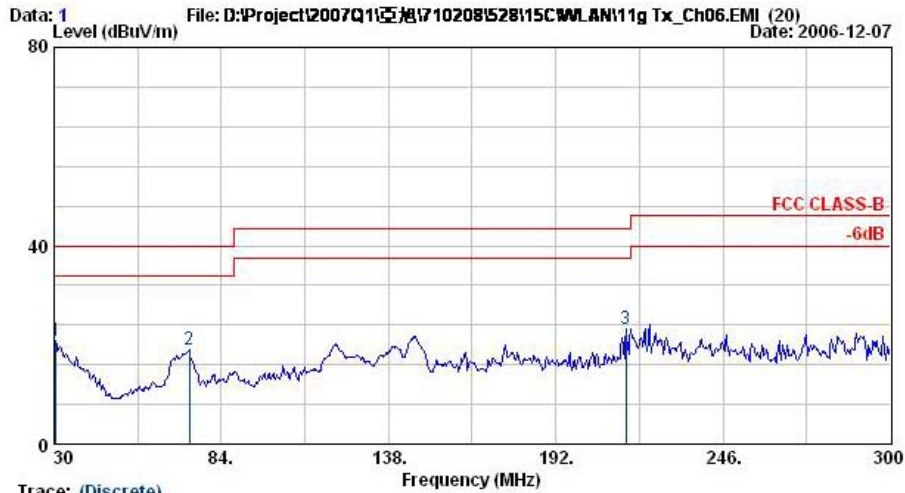
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	!	2389.9	68.53	-5.47	74.00	69.98	30.26	3.75	35.46	100	0 Peak
2	@	2389.9	50.47	-3.53	54.00	51.92	30.26	3.75	35.46	121	265 Average

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



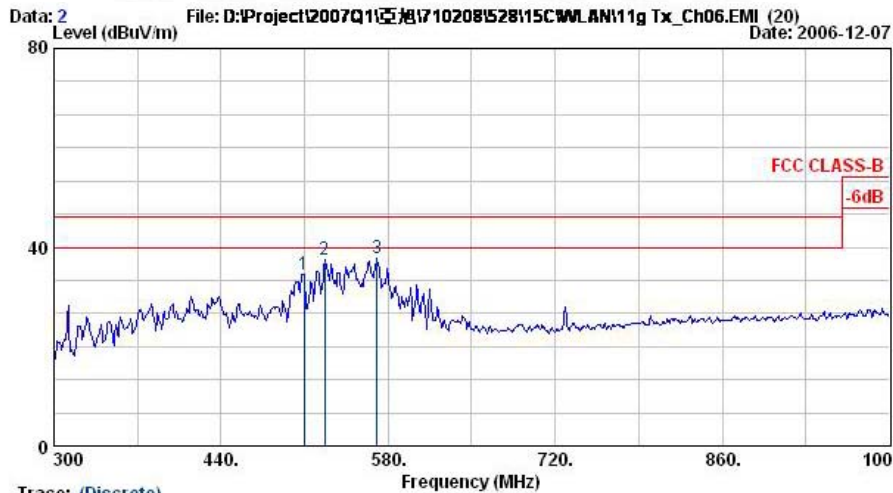
- Test Mode : Mode 5
- Polarization : Horizontal

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



Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : LP-ANT(951121) HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch06;2437MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	30.5	20.71	-19.29	40.00	32.33	18.95	0.85	31.43	---	---	Peak
2 @	73.7	19.04	-20.96	40.00	41.76	7.12	1.32	31.16	---	---	Peak
3 @	214.7	23.32	-20.18	43.50	42.02	10.16	2.17	31.03	---	---	Peak

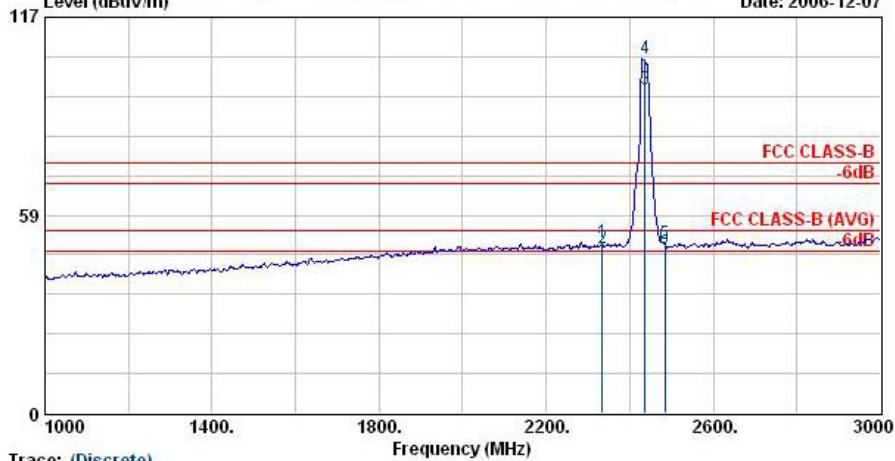


Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : LP-ANT(951121) HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch06;2437MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	509.30	34.54	-11.46	46.00	44.25	17.52	3.55	30.78	---	---	Peak
2	526.80	37.61	-8.39	46.00	47.04	17.70	3.63	30.76	---	---	Peak
3 @	570.90	37.65	-8.35	46.00	46.40	18.17	3.79	30.70	100	128	Peak



Data: 3 File: D:\Project\2007Q1\亞旭\710208\528\15C\WLAN\11g Tx\_Ch06.EMI (20) Date: 2006-12-07



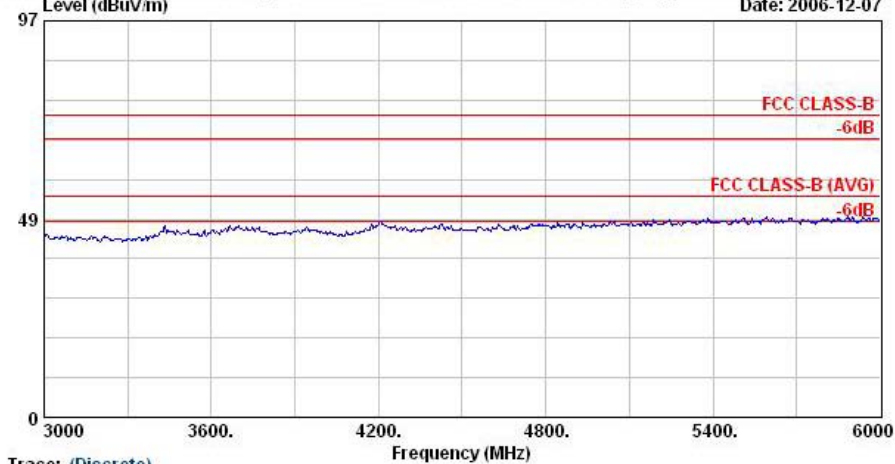
Trace: (Discrete)

Site : 03CH06-HY  
 Condition : HF-ANT-060410 HORIZONTAL  
 EUT : FDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120V<sub>ac</sub>/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch06;2437MHz  
 Plane : E2  
 Data Rate : 6

	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 @	2334.0	50.41	-23.59	74.00	51.90	30.23	3.69	35.40	100	0	Peak
2 @	2334.0	48.74	-5.26	54.00	50.23	30.23	3.69	35.40	126	97	Average
3 @	2437.0	95.89			97.27	30.28	3.82	35.47	126	97	Average
4 @	2437.0	104.76			106.16	30.27	3.79	35.47	100	0	Peak
5 @	2484.0	50.00	-24.00	74.00	51.36	30.29	3.86	35.51	100	0	Peak
6 @	2484.0	48.76	-5.24	54.00	50.12	30.29	3.86	35.51	126	97	Average

Remark: #3 and #4 Fundamental Signal

Data: 4 File: D:\Project\2007Q1\亞旭\710208\528\15C\WLAN\11g Tx\_Ch06.EMI (20) Date: 2006-12-07



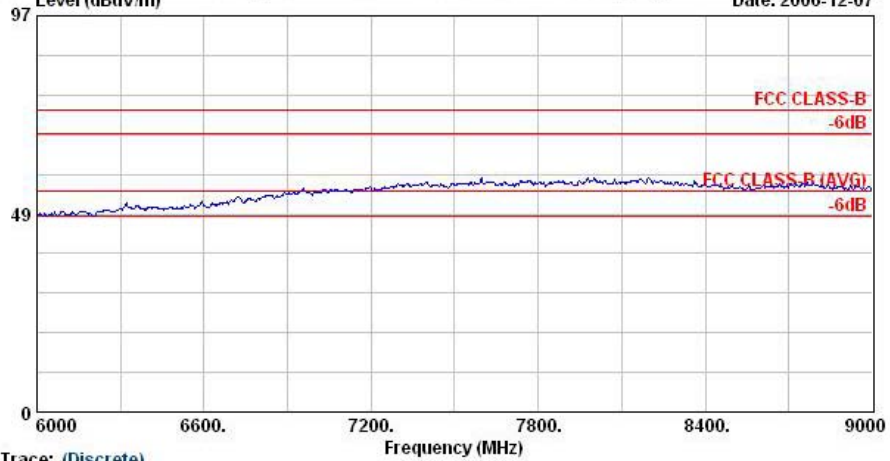
Trace: (Discrete)

Site : 03CH06-HY  
 Condition : HF-ANT-060410 HORIZONTAL  
 EUT : FDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120V<sub>ac</sub>/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch06;2437MHz  
 Plane : E2  
 Data Rate : 6





Data: 5 File: D:\Project\2007Q1\2710208\52815C\WLAN11g Tx\_Ch06.EMI (20) Date: 2006-12-07  
Level (dBuV/m)



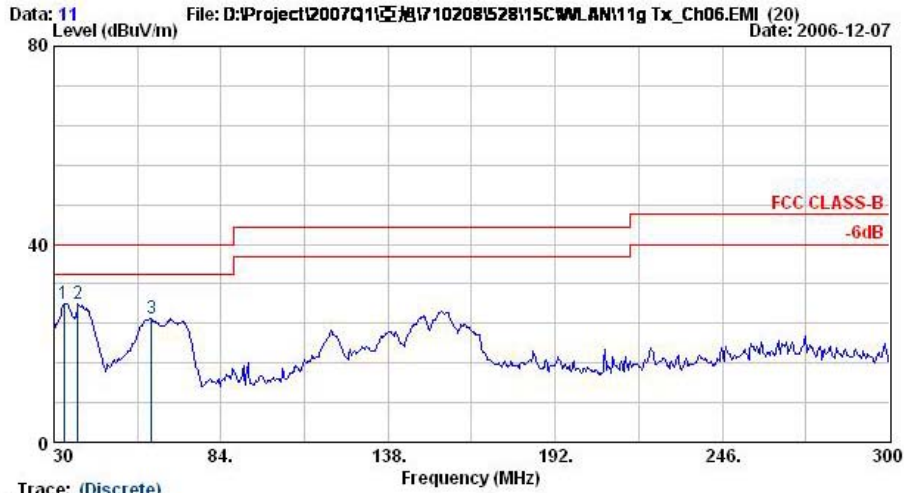
Trace: (Discrete)

Site : 03CH06-HY  
Condition : HF ANT-060410 HORIZONTAL  
EUT : FDA with GPRS/EDGE+WLAN 11g+BT  
Power : 120V<sub>ac</sub>/60Hz  
Model : FR 710210  
Memo : 11g Tx\_Ch06:243.7MHz  
Plane : E2  
Data Rate : 6



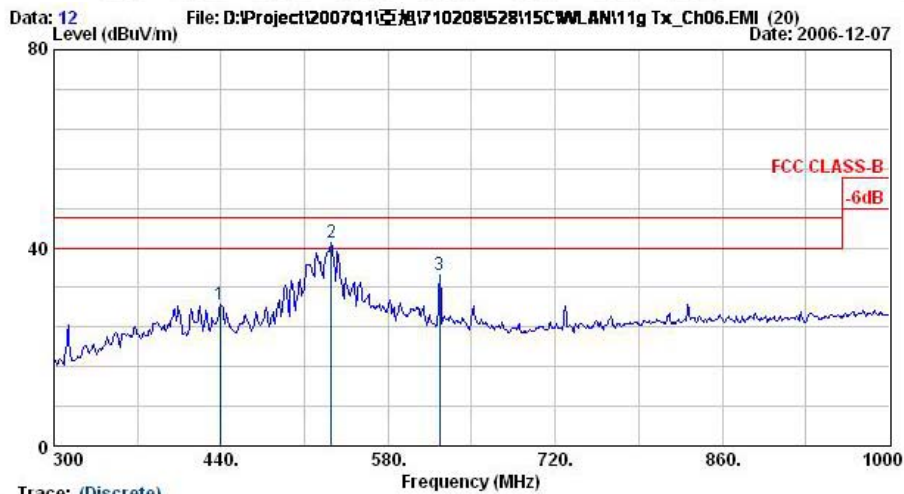
- Polarization : Vertical

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



Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch06;2437MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	33.2	28.04	-11.96	40.00	40.99	17.54	0.86	31.36	---	---	Peak
2 @	37.8	28.07	-11.93	40.00	43.85	14.56	0.90	31.24	---	---	Peak
3 @	61.6	25.11	-14.89	40.00	48.47	6.67	1.17	31.20	---	---	Peak



Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch06;2437MHz  
 Plane : E2  
 Data Rate : 6

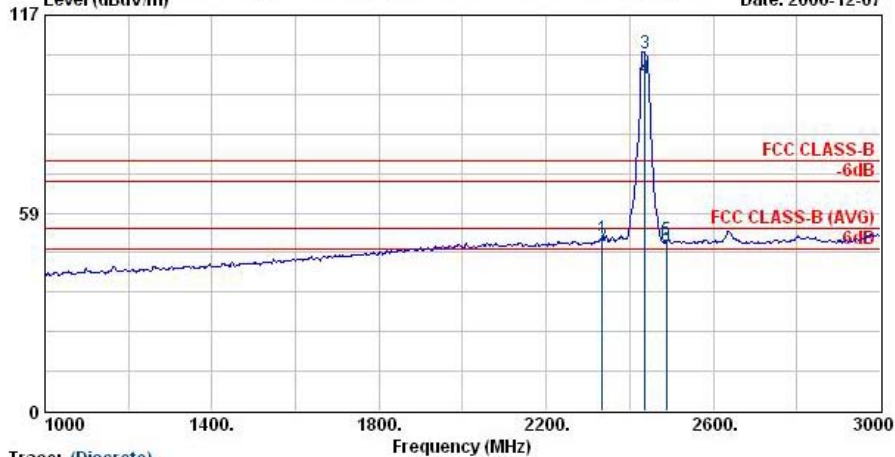
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	439.3	28.46	-17.54	46.00	39.61	16.42	3.27	30.83	---	---	Peak
2 @	532.4	41.03	-4.97	46.00	50.36	17.76	3.65	30.75	100	253	Peak
3 @	623.4	34.37	-11.63	46.00	42.47	18.57	3.99	30.66	---	---	Peak



# FCC/IC TEST REPORT

Report No. : FR710210

Data: 13 File: D:\Project\2007Q1\200710208\52815C\WLAN11g Tx\_Ch06.EMI (20) Date: 2006-12-07  
 Level (dBuV/m)



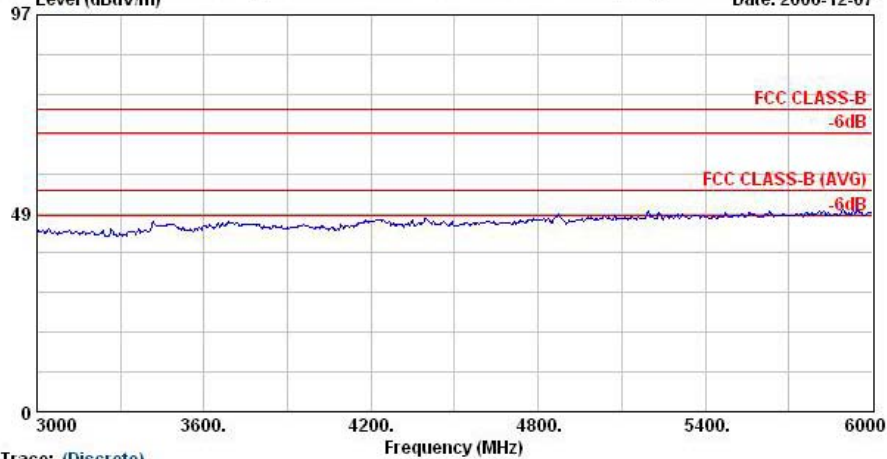
Trace: (Discrete)

Site : 08CH06-HY  
 Condition : HP-ANT-060410 VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch06;2437MHz  
 Plane : E2  
 Data Rate : 6

	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 @	2334.0	50.73	-23.27	74.00	52.22	30.23	3.69	35.40	100	0	Peak
2 @	2334.0	48.75	-5.25	54.00	50.24	30.23	3.69	35.40	124	262	Average
3 @	2437.0	105.88			107.29	30.27	3.79	35.47	100	0	Peak
4 @	2437.0	98.26			99.64	30.28	3.82	35.47	124	262	Average
5 @	2488.0	50.59	-23.41	74.00	51.94	30.30	3.86	35.51	100	0	Peak
6 @	2488.0	48.81	-5.19	54.00	50.16	30.30	3.86	35.51	124	262	Average

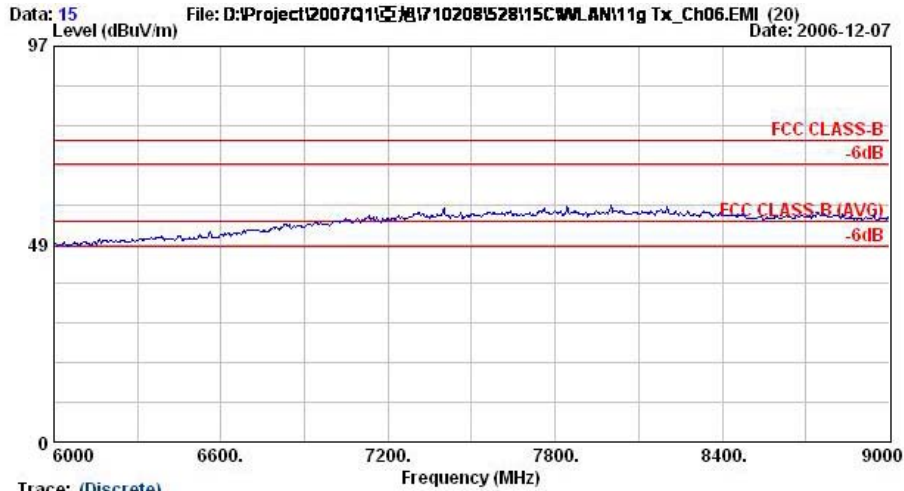
Remark: #3 and #4 Fundamental Signal

Data: 14 File: D:\Project\2007Q1\200710208\52815C\WLAN11g Tx\_Ch06.EMI (20) Date: 2006-12-07  
 Level (dBuV/m)



Trace: (Discrete)

Site : 08CH06-HY  
 Condition : HP-ANT-060410 VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch06;2437MHz  
 Plane : E2  
 Data Rate : 6



Site : 08CH06-HY  
Condition : HP-ANT-060410 VERTICAL  
EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
Power : 120Wac/60Hz  
Model : FR 710210  
Memo : 11g Tx\_Ch06;2437MHz  
Plane : E2  
Data Rate : 6

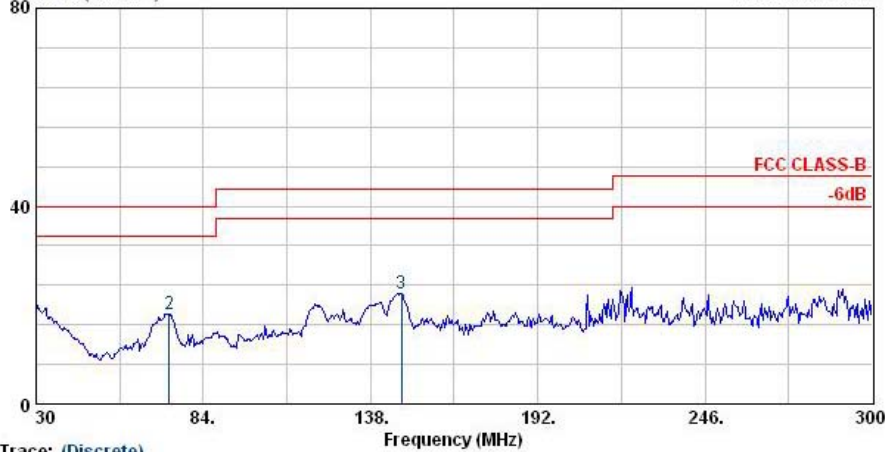
Remark: There is no more obvious spurious emission except the listings above.



- Test Mode : Mode 6
- Polarization : Horizontal

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

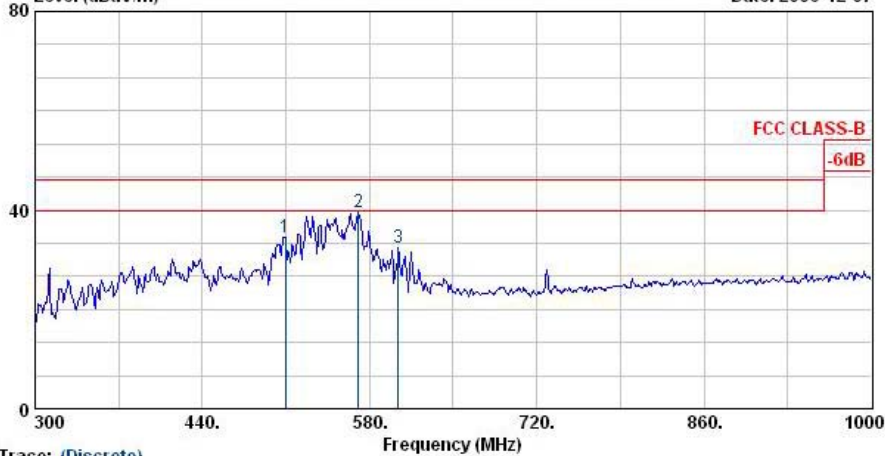
Data: 1 File: D:\Project\2007Q1\200710208\52815C\WLAN11g Tx\_Ch11.EMI (18) Date: 2006-12-07



Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch11;2462MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	30.0	20.48	-19.52	40.00	31.44	19.66	0.84	31.46	---	---	Peak
2	72.9	18.22	-21.78	40.00	41.00	7.06	1.32	31.16	---	---	Peak
3	148.0	22.33	-21.17	43.50	41.21	10.37	1.81	31.06	---	---	Peak

Data: 2 File: D:\Project\2007Q1\200710208\52815C\WLAN11g Tx\_Ch11.EMI (18) Date: 2006-12-07



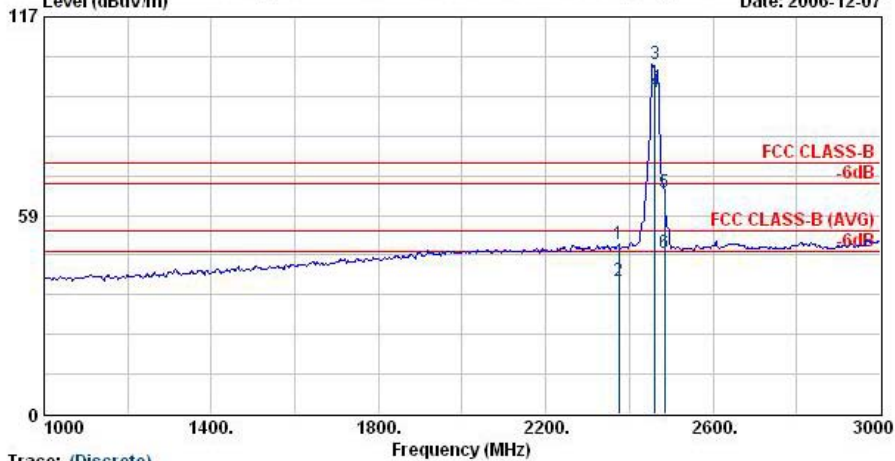
Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch11;2462MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	509.30	34.54	-11.46	46.00	44.25	17.52	3.55	30.78	---	---	Peak
2 @	570.90	39.65	-6.35	46.00	48.40	18.17	3.79	30.70	100	75	Peak
3	603.80	32.43	-13.57	46.00	40.71	18.49	3.89	30.66	---	---	Peak





Data: 3 File: D:\Project\2007Q1\2462\710208\52815C\WLAN11g Tx\_Ch11.EMI (18) Date: 2006-12-07



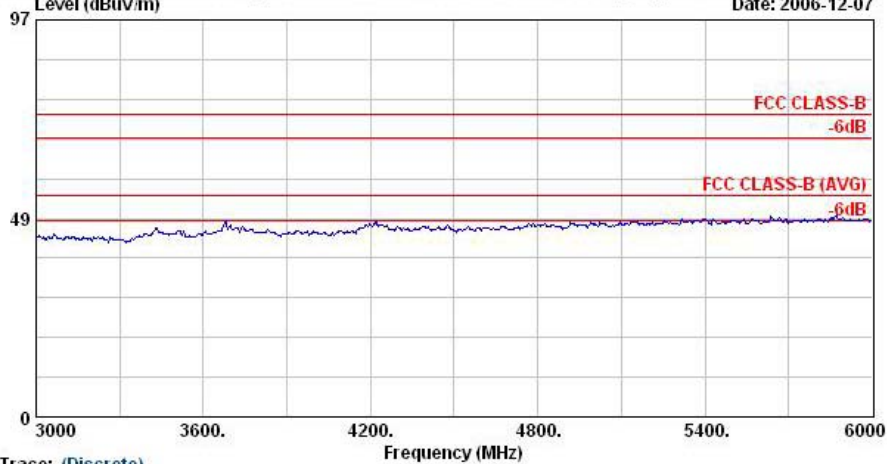
Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : HP-ANT-060410 HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch11;2462MHz  
 Plane : E2  
 Data Rate : 6

	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	2374.0	50.05	-23.95	74.00	51.51	30.25	3.73	35.44	100	0	Peak
2 @	2374.0	39.33	-14.67	54.00	40.79	30.25	3.73	35.44	129	83	Average
3 @	2462.0	103.18			104.55	30.29	3.84	35.49	100	0	Peak
4 @	2462.0	94.70			96.07	30.29	3.84	35.49	129	83	Average
5 @	2484.0	65.38	-8.62	74.00	66.74	30.29	3.86	35.51	100	0	Peak
6 @	2484.0	47.49	-6.51	54.00	48.85	30.29	3.86	35.51	129	83	Average

Remark: #3 and #4 Fundamental Signal

Data: 4 File: D:\Project\2007Q1\2462\710208\52815C\WLAN11g Tx\_Ch11.EMI (18) Date: 2006-12-07

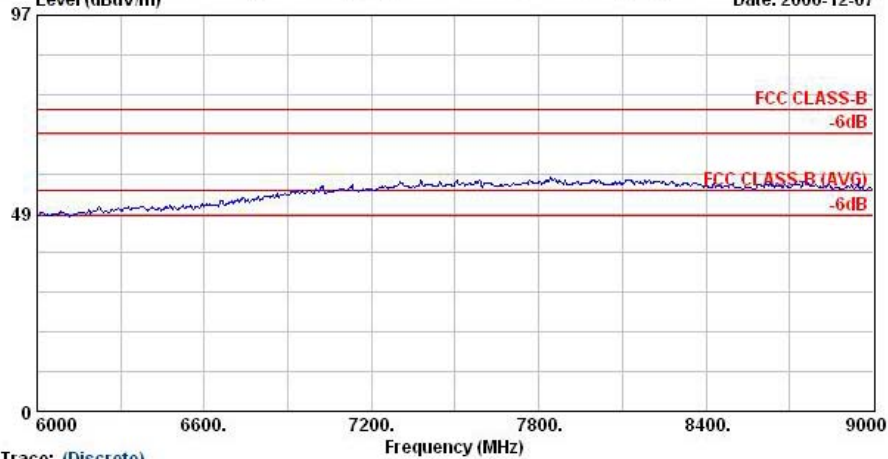


Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : HP-ANT-060410 HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch11;2462MHz  
 Plane : E2  
 Data Rate : 6



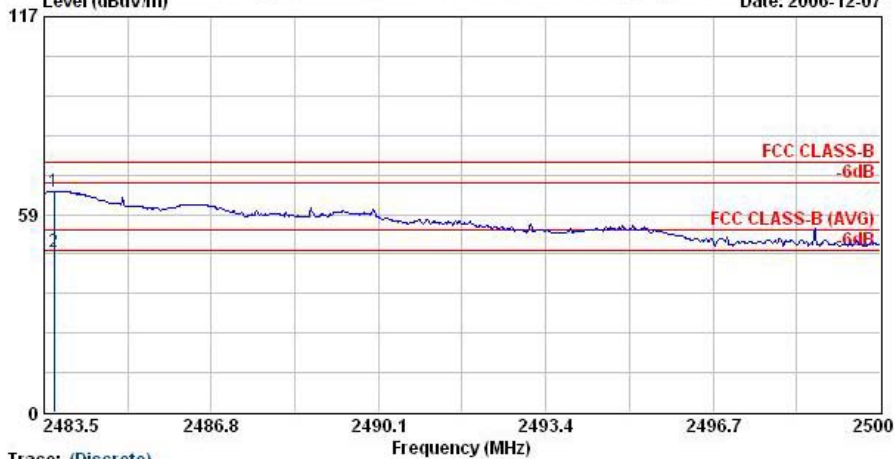
Data: 5 File: D:\Project\2007Q1\亞旭\710208\52815C\WLAN\11g Tx\_Ch11.EMI (18) Date: 2006-12-07



Trace: (Discrete)

Site : 03CH06-HY  
 Condition : HP-ANT-060410 HORIZONTAL  
 EUT : FDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch11;2462MHz  
 Plane : E2  
 Data Rate : 6

Data: 17 File: D:\Project\2007Q1\亞旭\710208\52815C\WLAN\11g Tx\_Ch11.EMI (18) Date: 2006-12-07



Trace: (Discrete)

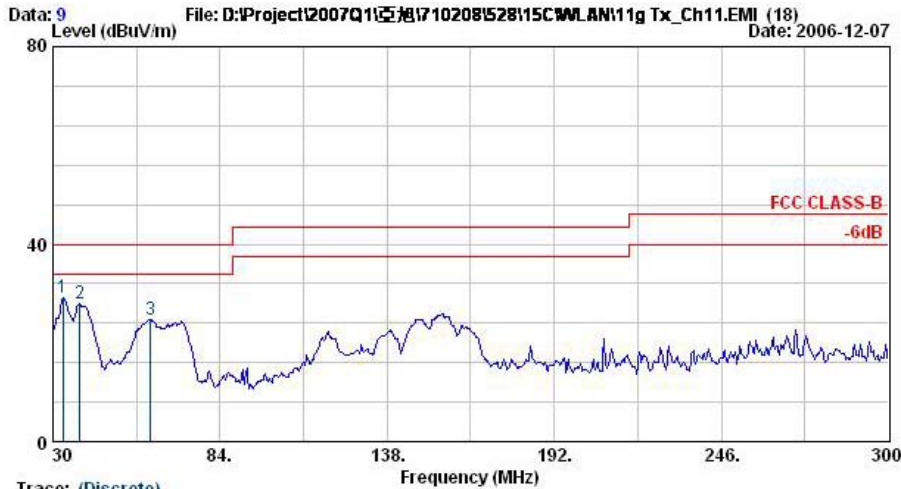
Site : 03CH06-HY  
 Condition : HP-ANT-060410 HORIZONTAL  
 EUT : FDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch11;2462MHz  
 Plane : E2  
 Data Rate : 6

	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 @	2483.7	65.38	-8.62	74.00	66.74	30.29	3.86	35.51	100	0	Peak
2 @	2483.7	47.49	-6.51	54.00	48.85	30.29	3.86	35.51	129	83	Average



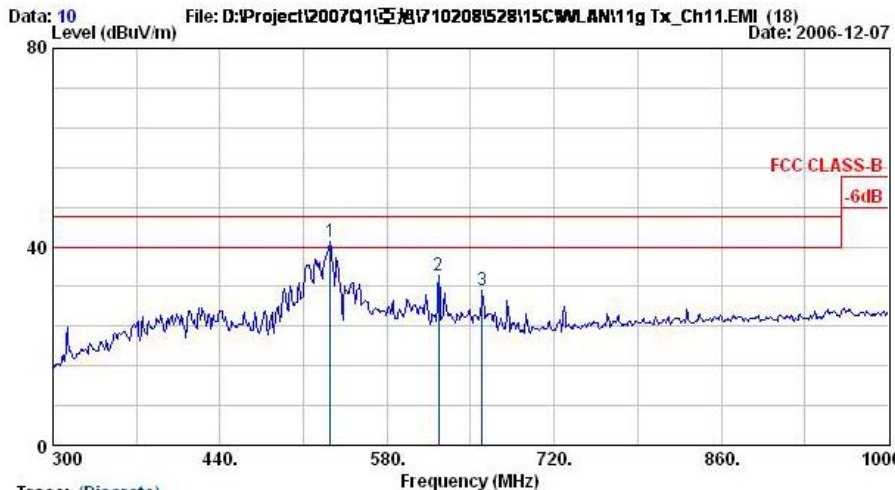
- Polarization : Vertical

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



Trace: (Discrete)  
 Site : 08CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch11,2462MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	33.2	29.05	-10.95	40.00	42.01	17.54	0.86	31.36	---	Peak
2 @	38.6	27.87	-12.13	40.00	44.15	14.03	0.91	31.23	---	Peak
3 @	61.6	24.79	-15.21	40.00	48.15	6.67	1.17	31.20	---	Peak

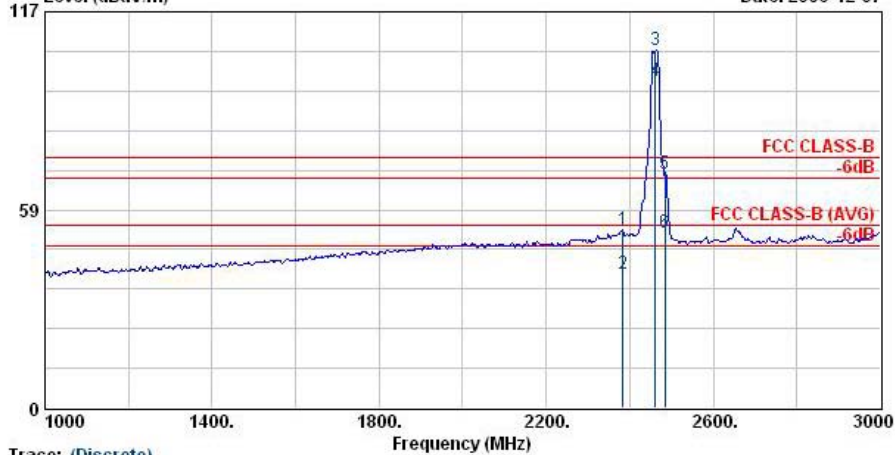


Trace: (Discrete)  
 Site : 08CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch11,2462MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	532.4	40.91	-5.09	46.00	50.24	17.76	3.65	30.75	100	0 Peak
2 @	623.4	34.32	-11.68	46.00	42.42	18.57	3.99	30.66	---	Peak
3 @	659.8	31.12	-14.88	46.00	38.90	18.72	4.15	30.64	---	Peak



Data: 11 File: D:\Project\2007Q1\亞旭\710208\528\15C\WLAN\11g Tx\_Ch11.EMI (18) Date: 2006-12-07



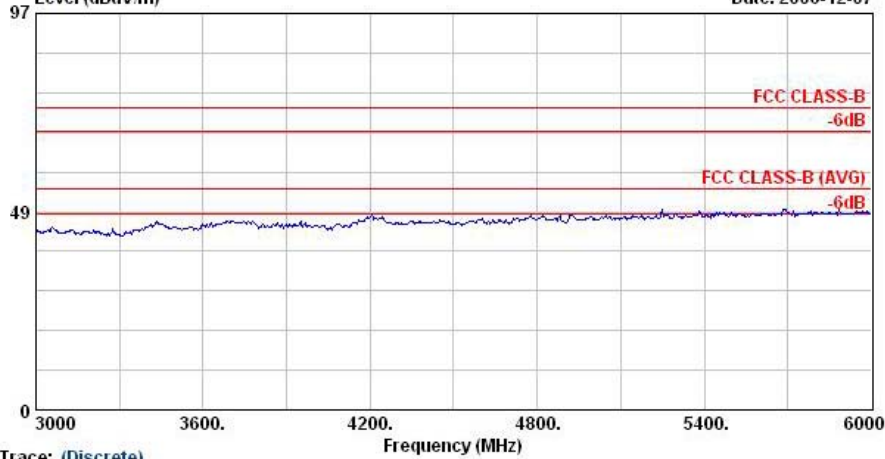
Trace: (Discrete)

Site : 08CH06-HY
Condition : HP-ANT-060410 VERTICAL
EUT : PDA with GPRS/EDGE+WLAN 11g+BT
Power : 120Vac/60Hz
Model : FR 710210
Memo : 11g Tx\_Ch11\_2462MHz
Plane : E2
Data Rate : 6

Table with 11 columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Loss, Preamp Factor, Ant Pos, Table Pos, Remark. It lists measurement points 1 through 6 with their respective frequency and level values.

Remark: #3 and #4 Fundamental Signal

Data: 12 File: D:\Project\2007Q1\亞旭\710208\528\15C\WLAN\11g Tx\_Ch11.EMI (18) Date: 2006-12-07

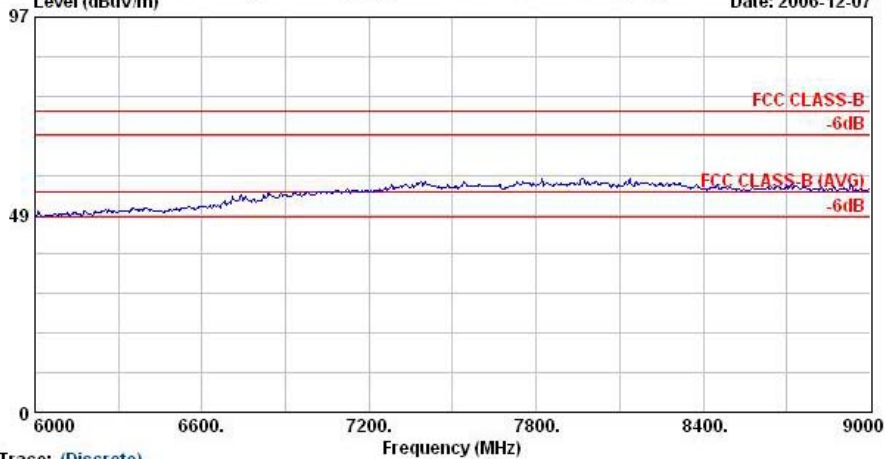


Trace: (Discrete)

Site : 08CH06-HY
Condition : HP-ANT-060410 VERTICAL
EUT : PDA with GPRS/EDGE+WLAN 11g+BT
Power : 120Vac/60Hz
Model : FR 710210
Memo : 11g Tx\_Ch11\_2462MHz
Plane : E2
Data Rate : 6



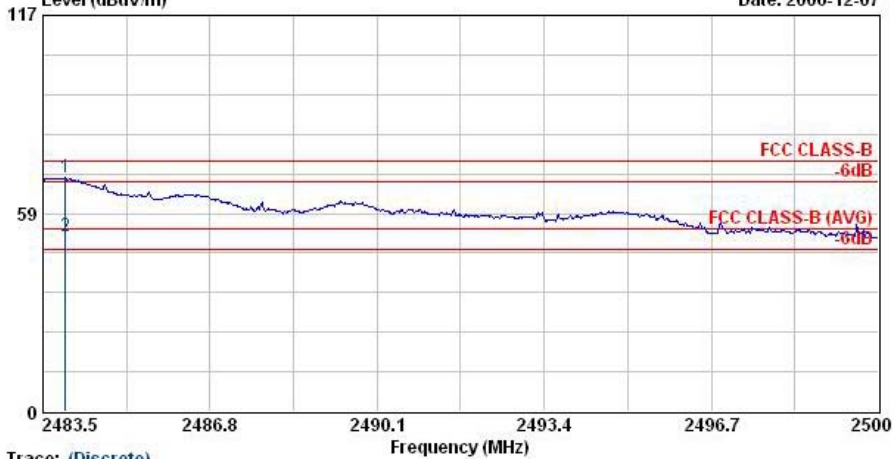
Data: 13 File: D:\Project\2007Q1\2462\1710208\528\15C\WLAN\11g Tx\_Ch11.EMI (18) Date: 2006-12-07



Trace: (Discrete)

Site : 08CH06-HY  
 Condition : HF-ANT-060410 VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch11\_2462MHz  
 Plane : E2  
 Data Rate : 6

Data: 18 File: D:\Project\2007Q1\2462\1710208\528\15C\WLAN\11g Tx\_Ch11.EMI (18) Date: 2006-12-07



Trace: (Discrete)

Site : 08CH06-HY  
 Condition : HF-ANT-060410 VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch11\_2462MHz  
 Plane : E2  
 Data Rate : 6

	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 @	2483.9	69.03	-4.97	74.00	70.39	30.29	3.86	35.51	100	0	Peak
2 @	2483.9	51.74	-2.26	54.00	53.10	30.29	3.86	35.51	121	261	Average

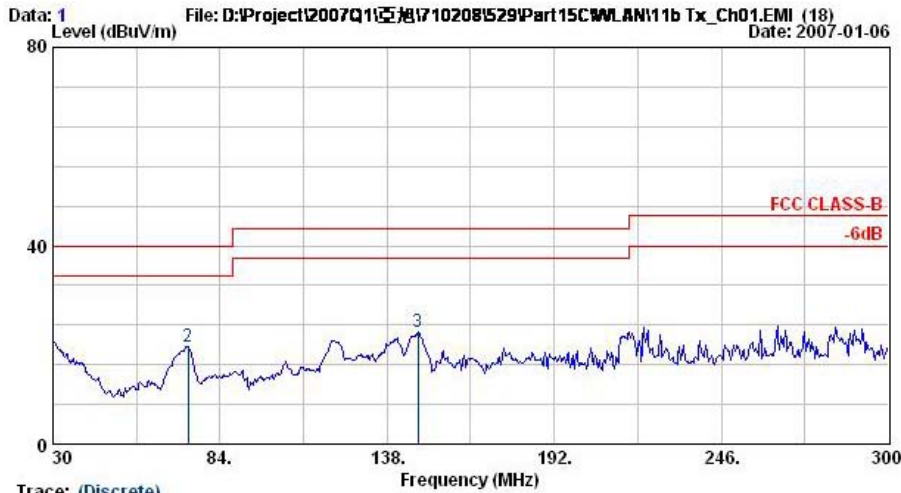
Remark: There is no more obvious spurious emission except the listings above.





- Test Mode : Mode 7
- Polarization : Horizontal

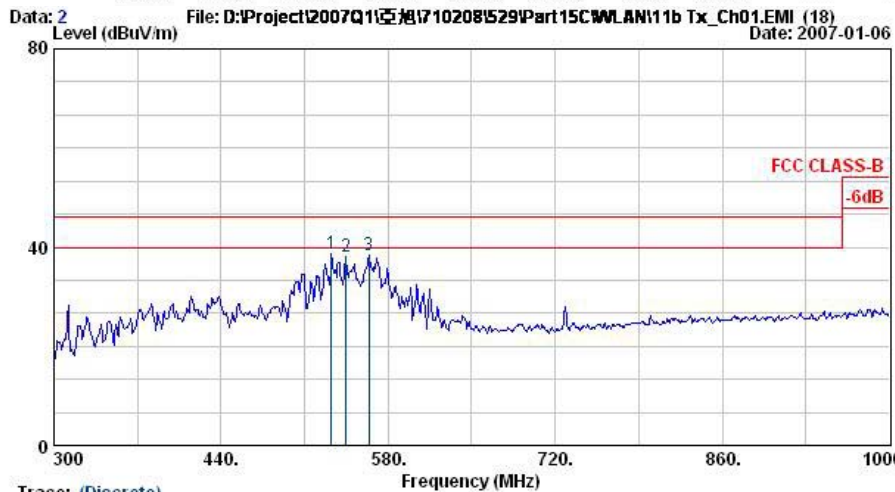
The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 09CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11b Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 11

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	30.0	20.59	-19.41	40.00	31.55	19.66	0.84	31.46	---	---	Peak
2	73.7	19.62	-20.38	40.00	42.35	7.12	1.32	31.16	---	---	Peak
3	148.0	22.70	-20.80	43.50	41.58	10.37	1.81	31.06	---	---	Peak



Trace: (Discrete)

Site : 09CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11b Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 11

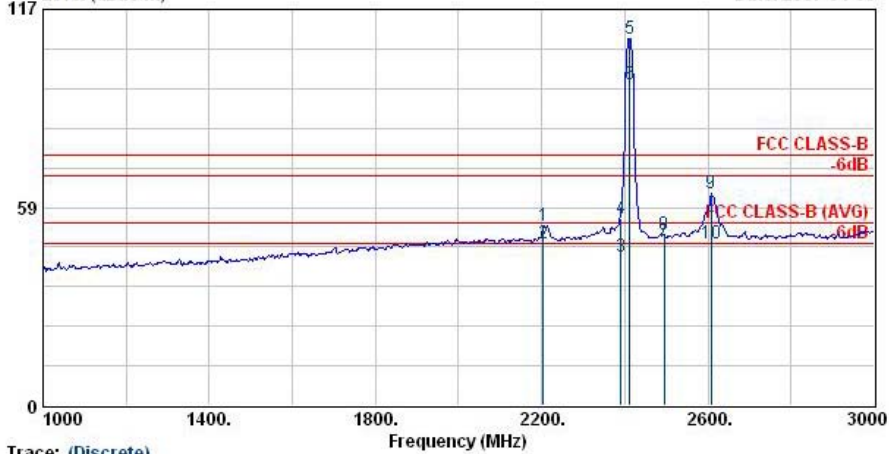
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	532.40	38.55	-7.45	46.00	47.89	17.76	3.65	30.75	---	---	Peak
2	545.00	38.04	-7.96	46.00	47.17	17.89	3.71	30.74	---	---	Peak
3	563.90	38.32	-7.68	46.00	47.17	18.09	3.77	30.71	---	---	Peak



**FCC/IC TEST REPORT**

**Report No. : FR710210**

Data: 3 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN\11b Tx\_Ch01.EMI (18) Date: 2007-01-06  
 Level (dBuV/m)



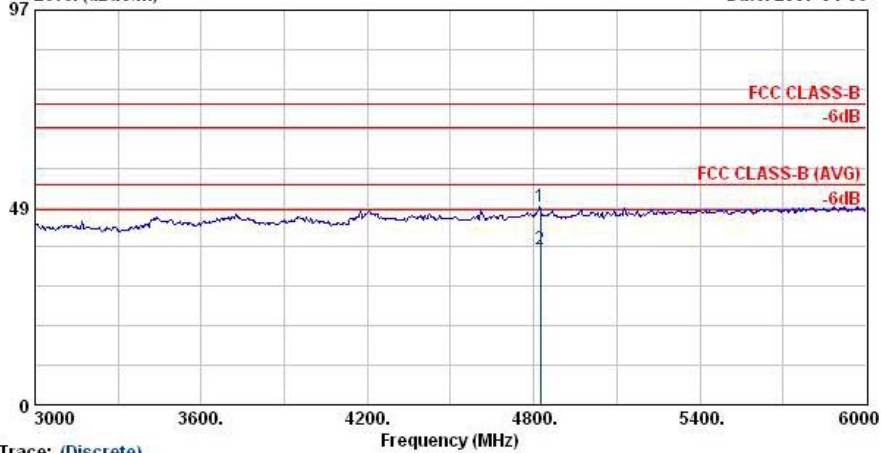
Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : HF-ANT-060410 HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11b Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 11

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2204.0	53.13	-20.87	74.00	54.73	30.18	3.54	35.31	100	0 Peak
2 @	2204.0	47.95	-6.05	54.00	49.55	30.18	3.54	35.31	100	114 Average
3 @	2390.0	43.83	-10.17	54.00	45.28	30.26	3.75	35.46	100	114 Average
4 @	2390.0	55.38	-18.62	74.00	56.83	30.26	3.75	35.46	100	0 Peak
5 @	2412.0	108.41			109.83	30.27	3.77	35.46	100	0 Peak
6 @	2412.0	94.73			96.15	30.27	3.77	35.46	100	114 Average
7 @	2494.0	48.06	-5.94	54.00	49.41	30.30	3.88	35.53	100	114 Average
8	2494.0	50.60	-23.40	74.00	51.95	30.30	3.88	35.53	100	0 Peak
9 @	2608.0	62.62	-11.38	74.00	64.03	30.14	3.98	35.52	100	0 Peak
10 @	2608.0	47.84	-6.16	54.00	49.25	30.14	3.98	35.52	100	114 Average

Remark: #5 and #6 Fundamental Signal

Data: 4 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN\11b Tx\_Ch01.EMI (18) Date: 2007-01-06  
 Level (dBuV/m)



Trace: (Discrete)

Site : 03CHD6-HY  
 Condition : HF-ANT-060410 HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11b Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 11

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	4824.0	48.71	-25.29	74.00	46.04	32.94	5.84	36.12	100	0 Peak
2 @	4824.0	38.40	-15.60	54.00	35.73	32.94	5.84	36.12	100	0 Average

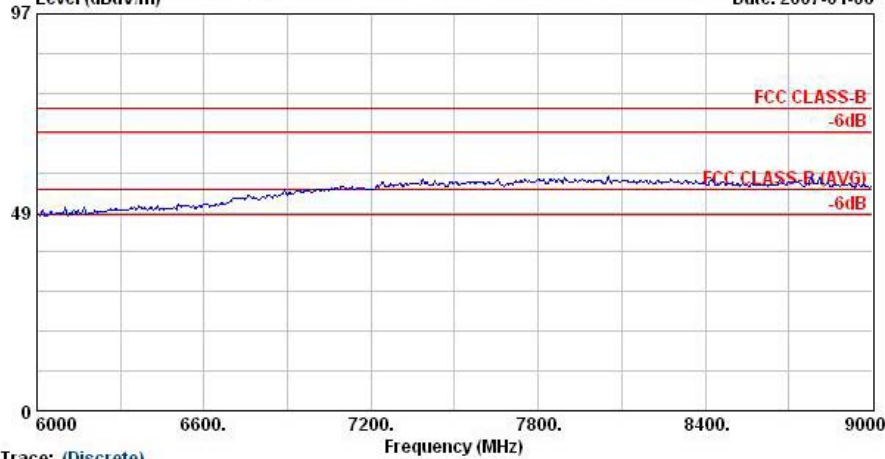
**SPORTON International Inc.**

TEL : 886-2-2696-2468  
 FAX : 886-2-2696-2255  
 FCC ID : GM37527RA2041  
 IC ID : 2739D-BGRADA

Page No. : 82 of 98  
 Report Issued Date : Feb. 28, 2007  
 Report Version : Rev. 02



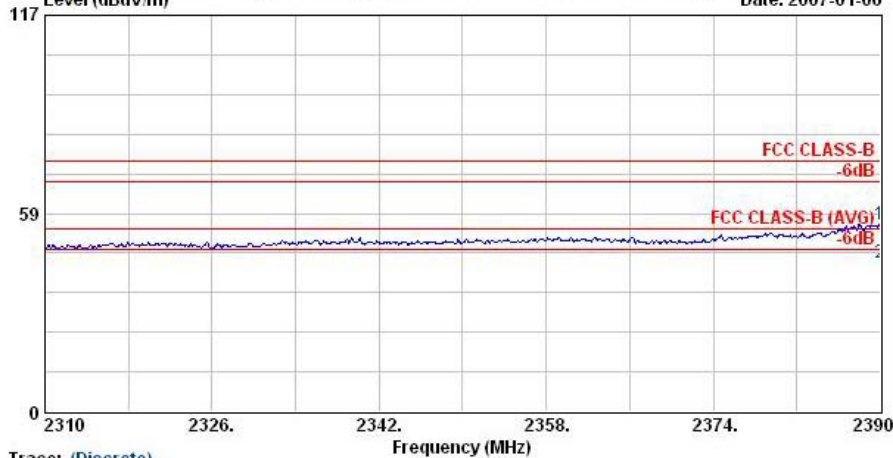
Data: 5 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN\11b Tx\_Ch01.EMI (18) Date: 2007-01-06



Trace: (Discrete)

Site : 03CH06-HY  
 Condition : HF-ANT-060410 HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11b Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 11

Data: 17 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN\11b Tx\_Ch01.EMI (18) Date: 2007-01-06



Trace: (Discrete)

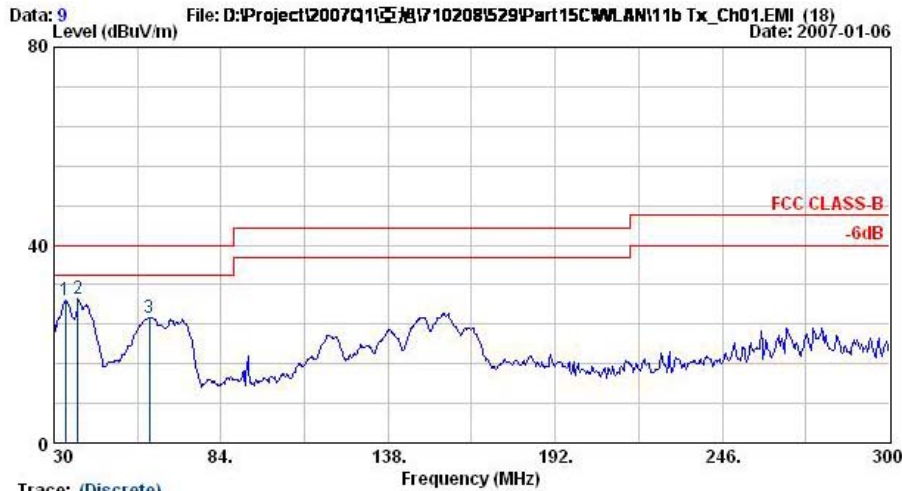
Site : 03CH06-HY  
 Condition : HF-ANT-060410 HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11b Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 11

	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 @	2390.0	55.38	-18.62	74.00	56.82	30.26	3.75	35.46	100	0	Peak
2 @	2390.0	43.83	-10.17	54.00	45.28	30.26	3.75	35.46	100	114	Average



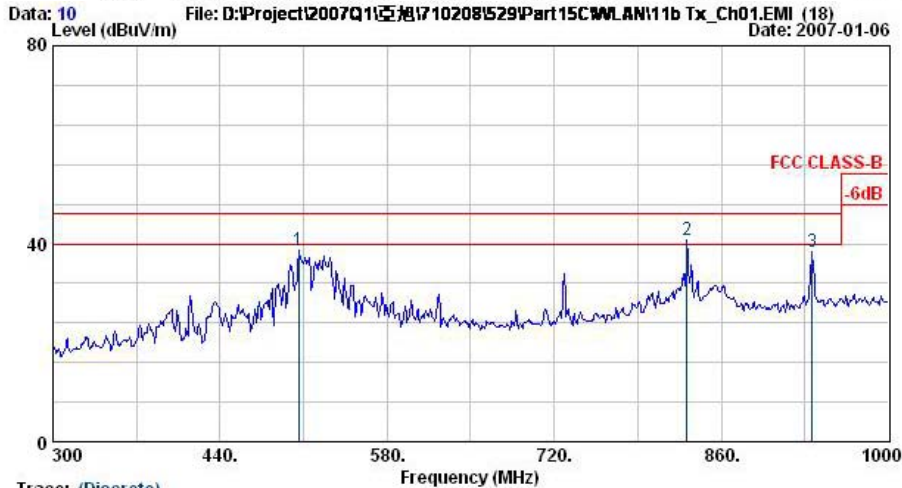
- Polarization : Vertical

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



Trace: (Discrete)  
Site : 08CH06-HY  
Condition : LF-ANT(951121) VERTICAL  
EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
Power : 120Vac/60Hz  
Model : FR 710210  
Memo : 11b Tx\_Ch01;2412MHz  
Plane : E2  
Data Rate : 11

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	33.8	28.73	-11.27	40.00	42.35	16.84	0.87	31.32	---	---	Peak
2 @	37.8	29.02	-10.98	40.00	44.80	14.56	0.90	31.24	---	---	Peak
3 @	60.8	25.36	-14.64	40.00	48.80	6.65	1.15	31.23	---	---	Peak



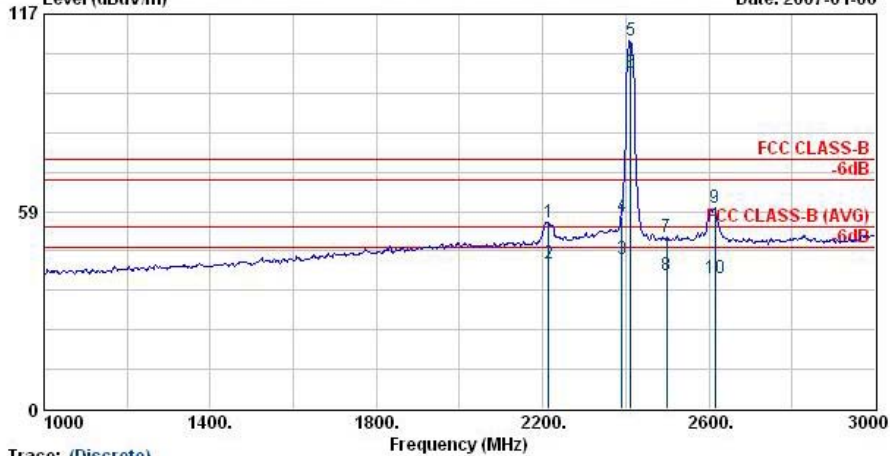
Trace: (Discrete)  
Site : 08CH06-HY  
Condition : LF-ANT(951121) VERTICAL  
EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
Power : 120Vac/60Hz  
Model : FR 710210  
Memo : 11b Tx\_Ch01;2412MHz  
Plane : E2  
Data Rate : 11

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	505.8	38.59	-7.41	46.00	48.35	17.49	3.54	30.78	---	---	Peak
2 @	831.3	40.71	-5.29	46.00	46.48	20.04	4.64	30.45	100	168	Peak
3 @	936.3	38.37	-7.63	46.00	42.97	20.79	4.92	30.30	---	---	Peak





Data: 11 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN\11b Tx\_Ch01.EMI (18) Date: 2007-01-06



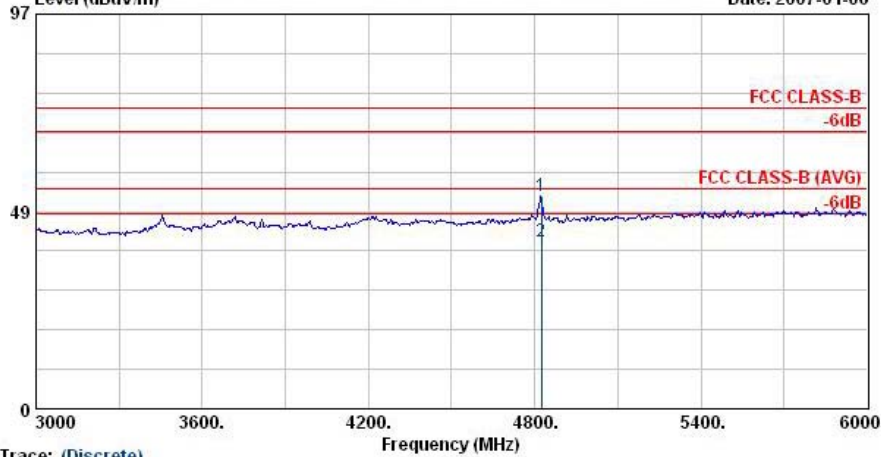
Trace: (Discrete)

Site : 08CHD6-HY  
 Condition : HF-ANT-060410 VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11b Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 11

	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 @	2214.9	55.42	-18.58	74.00	56.99	30.18	3.56	35.31	100	0	Peak
2 @	2214.9	43.13	-10.87	54.00	44.72	30.18	3.56	35.33	125	155	Average
3 @	2390.0	44.39	-9.61	54.00	45.84	30.26	3.75	35.46	125	155	Average
4 @	2390.0	56.80	-17.20	74.00	58.25	30.26	3.75	35.46	100	0	Peak
5 @	2412.0	109.02			110.44	30.27	3.77	35.46	100	0	Peak
6 @	2412.0	99.68			101.10	30.27	3.77	35.46	125	155	Average
7	2498.0	50.84	-23.16	74.00	52.19	30.30	3.88	35.53	100	0	Peak
8 @	2498.0	39.49	-14.51	54.00	40.84	30.30	3.88	35.53	125	155	Average
9 @	2614.6	59.66	-14.34	74.00	61.07	30.14	3.98	35.52	100	0	Peak
10 @	2614.6	38.85	-15.15	54.00	40.26	30.14	3.98	35.52	125	155	Average

Remark: #5 and #6 Fundamental Signal

Data: 12 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN\11b Tx\_Ch01.EMI (18) Date: 2007-01-06



Trace: (Discrete)

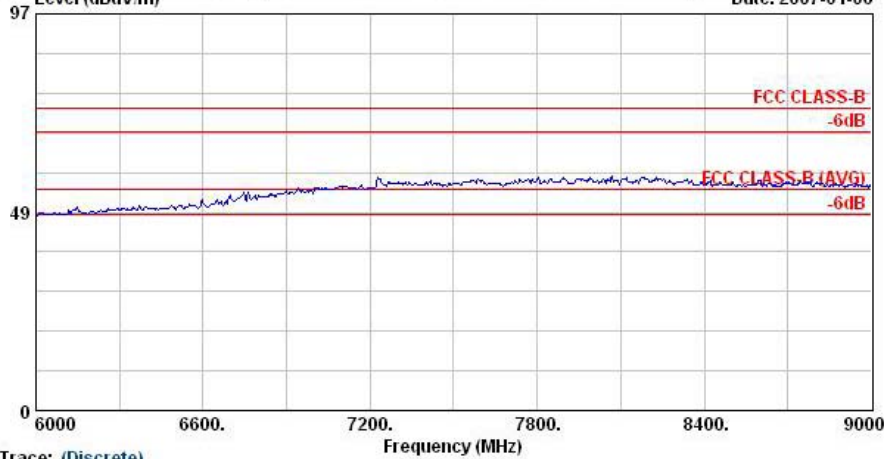
Site : 08CHD6-HY  
 Condition : HF-ANT-060410 VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11b Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 11

	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	4824.0	52.37	-21.63	74.00	49.70	32.94	5.84	36.12	100	0	Peak
2 @	4824.0	41.07	-12.93	54.00	38.40	32.94	5.84	36.12	100	180	Average





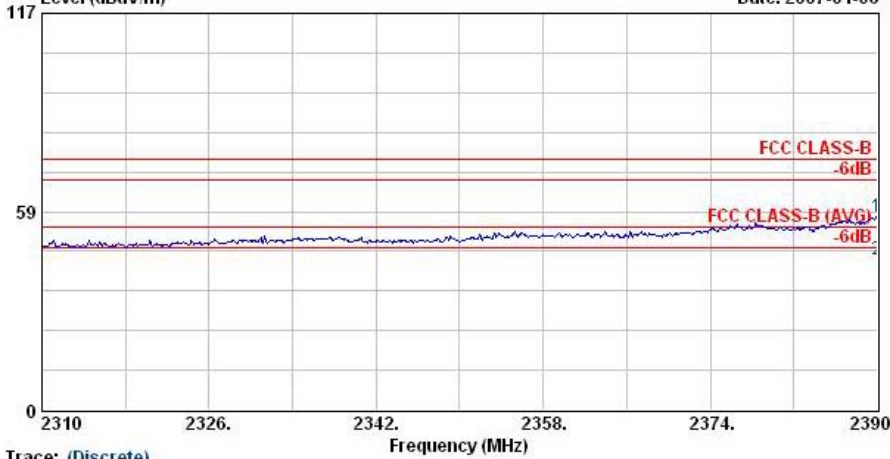
Data: 13 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN\11b Tx\_Ch01.EMI (18) Date: 2007-01-06  
 Level (dBuV/m)



Trace: (Discrete)

Site : 08CH06-HY  
 Condition : HF-ANT-060410 VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11b Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 11

Data: 18 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN\11b Tx\_Ch01.EMI (18) Date: 2007-01-06  
 Level (dBuV/m)



Trace: (Discrete)

Site : 08CH06-HY  
 Condition : HF-ANT-060410 VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11b Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 11

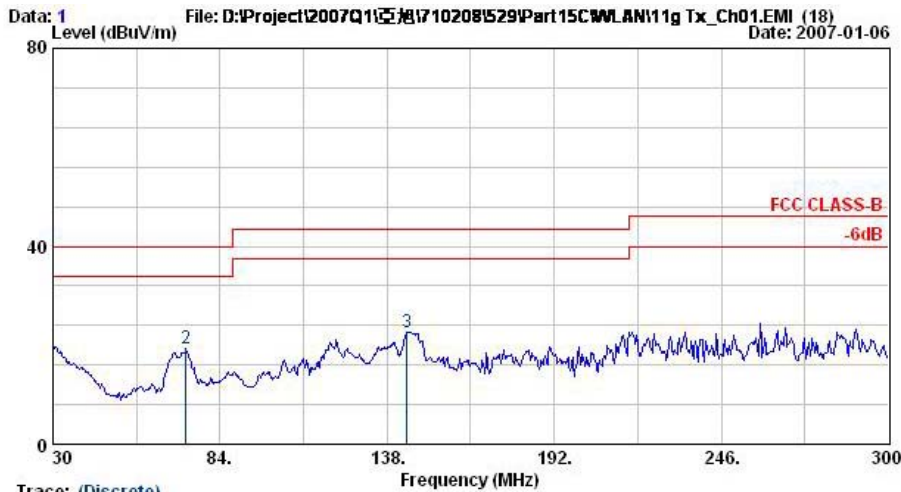
	Freq	Level	Over	Limit	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	2390.0	56.80	-17.20	74.00	58.25	30.26	3.75	35.46	100	0	Peak
2 @	2390.0	44.39	-9.61	54.00	45.84	30.26	3.75	35.46	125	155	Average

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.



Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	30.0	20.00	-20.00	40.00	30.96	19.66	0.84	31.46	---	Peak
2	72.9	19.24	-20.76	40.00	42.02	7.06	1.32	31.16	---	Peak
3	144.5	22.70	-20.80	43.50	41.66	10.32	1.78	31.06	---	Peak

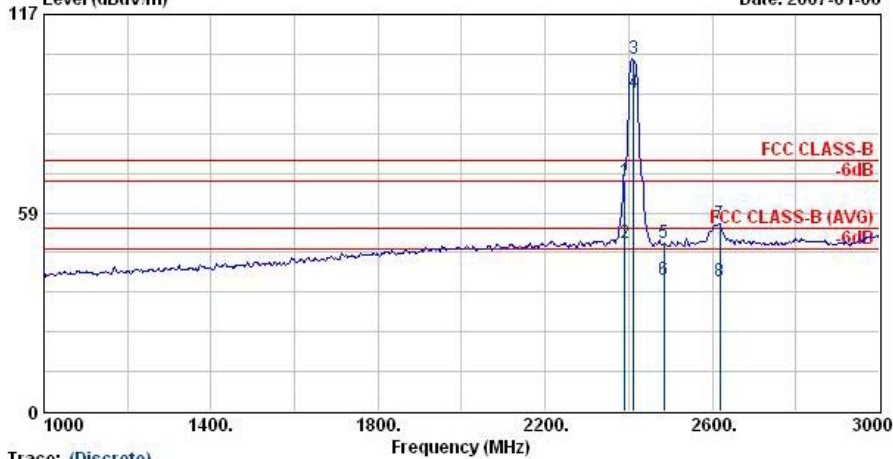


Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	437.90	30.15	-15.85	46.00	41.31	16.40	3.27	30.83	---	Peak
2 @	570.90	39.65	-6.35	46.00	48.40	18.17	3.79	30.70	100	258 Peak
3	728.40	27.82	-18.18	46.00	34.91	19.15	4.32	30.56	---	Peak



Data: 3 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN\11g Tx\_Ch01.EMI (18) Date: 2007-01-06  
 Level (dBuV/m)



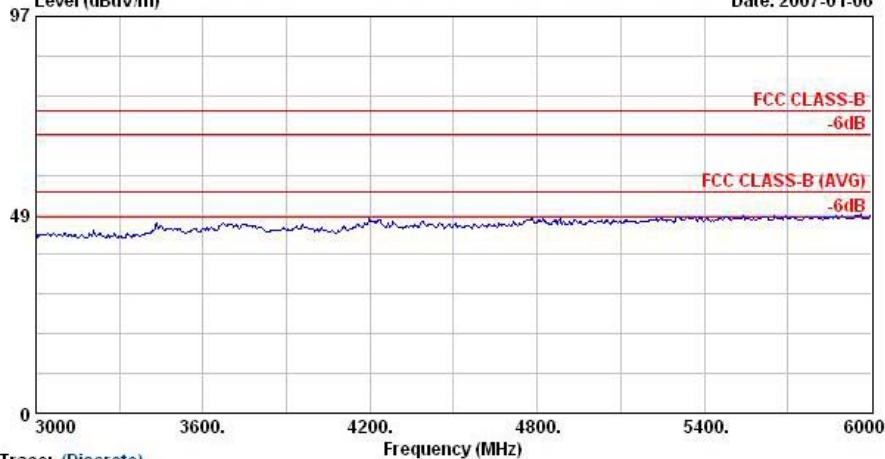
Trace: (Discrete)

Site : 08CHD6-HY  
 Condition : HP-ANT-060410 HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6

	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	2390.0	67.90	-6.10	74.00	69.35	30.26	3.75	35.46	100	0	Peak
2 @	2390.0	49.45	-4.55	54.00	50.90	30.26	3.75	35.46	100	111	Average
3 @	2412.0	103.89			105.31	30.27	3.77	35.46	100	0	Peak
4 @	2412.0	93.97			95.39	30.27	3.77	35.46	100	111	Average
5	2484.0	49.43	-24.57	74.00	50.79	30.29	3.86	35.51	100	0	Peak
6	2484.0	38.63	-15.37	54.00	39.99	30.29	3.86	35.51	100	111	Average
7	2618.0	55.39	-18.61	74.00	56.80	30.14	3.98	35.52	100	0	Peak
8	2618.0	38.37	-15.63	54.00	39.78	30.14	3.98	35.52	100	111	Average

Remark: #3 and #4 Fundamental Signal

Data: 4 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN\11g Tx\_Ch01.EMI (18) Date: 2007-01-06  
 Level (dBuV/m)

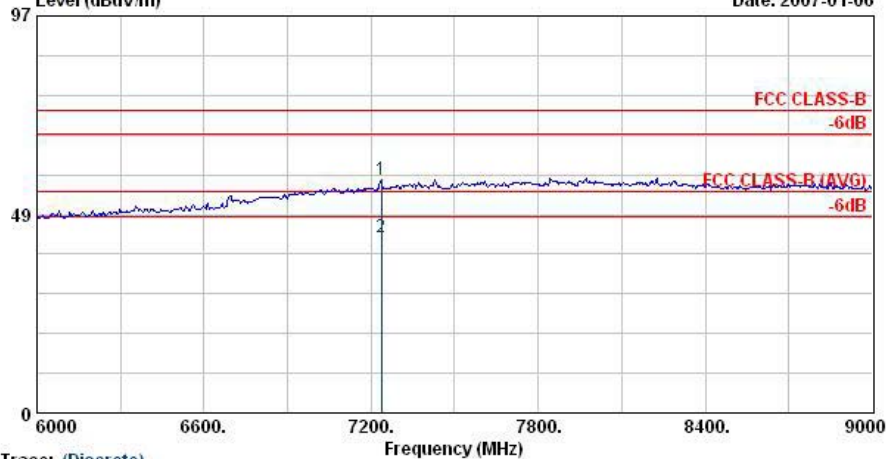


Trace: (Discrete)

Site : 08CHD6-HY  
 Condition : HP-ANT-060410 HORIZONTAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6



Data: 5 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN11g Tx\_Ch01.EMI (18) Date: 2007-01-06

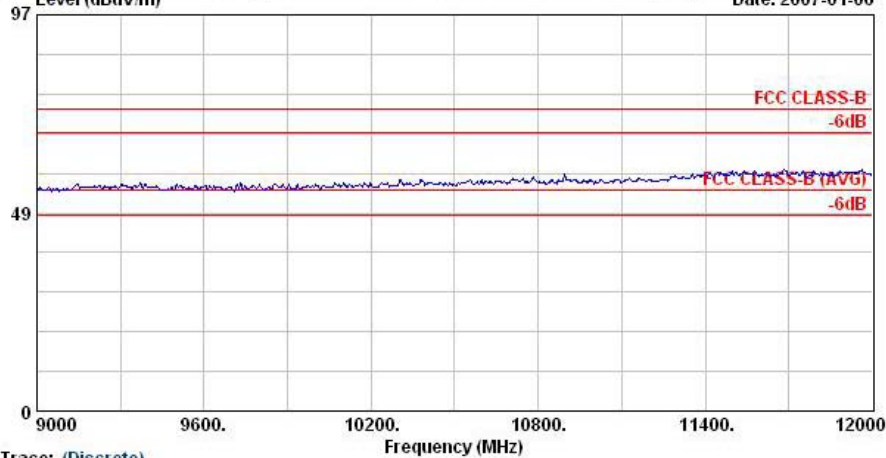


Trace: (Discrete)

Site : 08CHD6-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : PDA with GPRS/EDGE+WLAN 11g+BT
Power : 120Vac/60Hz
Model : FR 710210
Memo : 11g Tx\_Ch01;2412MHz
Plane : E2
Data Rate : 6

Table with columns: Freq, Level, Over Limit, Limit Line, Read Level, Antenna Factor, Cable Loss, Preamp Factor, Ant Pos, Table Pos, Remark. Contains two rows of data for peak and average values at 7236.0 MHz.

Data: 6 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN11g Tx\_Ch01.EMI (18) Date: 2007-01-06

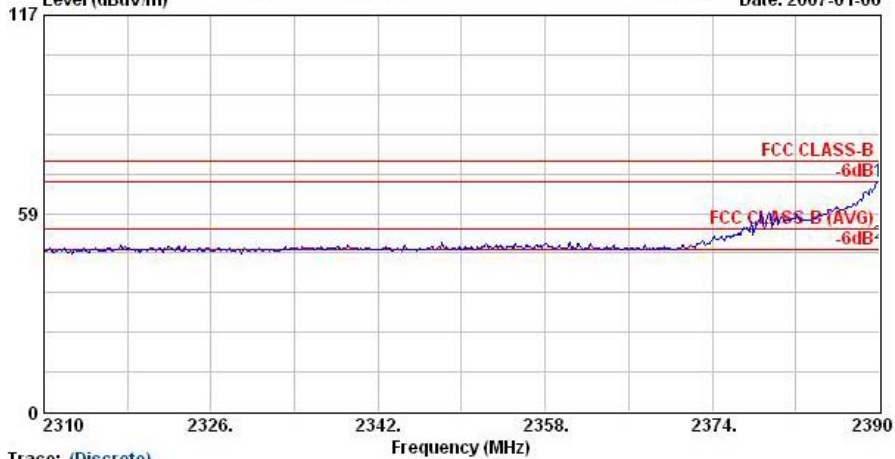


Trace: (Discrete)

Site : 08CHD6-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : PDA with GPRS/EDGE+WLAN 11g+BT
Power : 120Vac/60Hz
Model : FR 710210
Memo : 11g Tx\_Ch01;2412MHz
Plane : E2
Data Rate : 6



Data: 17 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\MLAN\11g Tx\_Ch01.EMI (18) Date: 2007-01-06



Trace: (Discrete)

Site : 03CH06-HY  
 Condition : HF-ANT-060410 HORIZONTAL  
 EUT : FDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_CN01;2412MHz  
 Plane : E2  
 Data Rate : 6

	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	2390.0	67.90	-6.10	74.00	69.35	30.26	3.75	35.46	100	0	Peak
2 @	2390.0	49.45	-4.55	54.00	50.90	30.26	3.75	35.46	100	111	Average





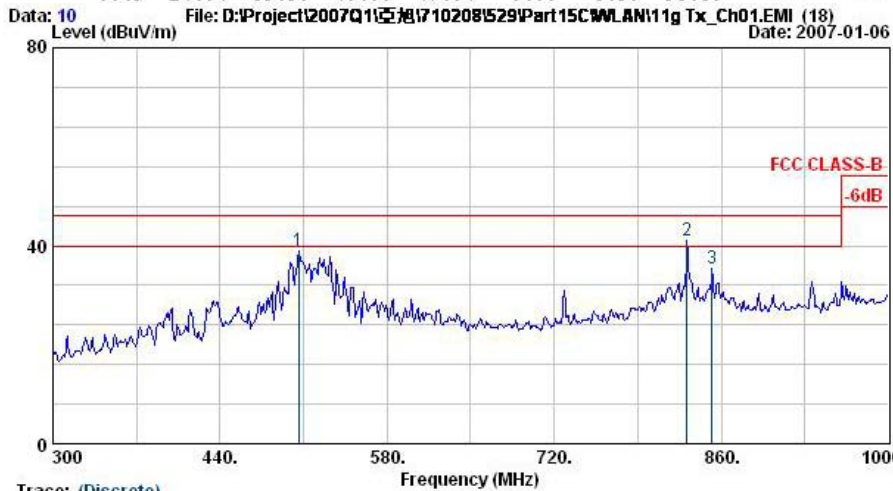
- Polarization : Vertical

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



Trace: (Discrete)  
 Site : 08CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	33.8	28.97	-11.03	40.00	42.59	16.84	0.87	31.32	---	---	Peak
2	37.8	28.09	-11.91	40.00	43.87	14.56	0.90	31.24	---	---	Peak
3	68.9	24.64	-15.36	40.00	47.64	6.86	1.30	31.16	---	---	Peak

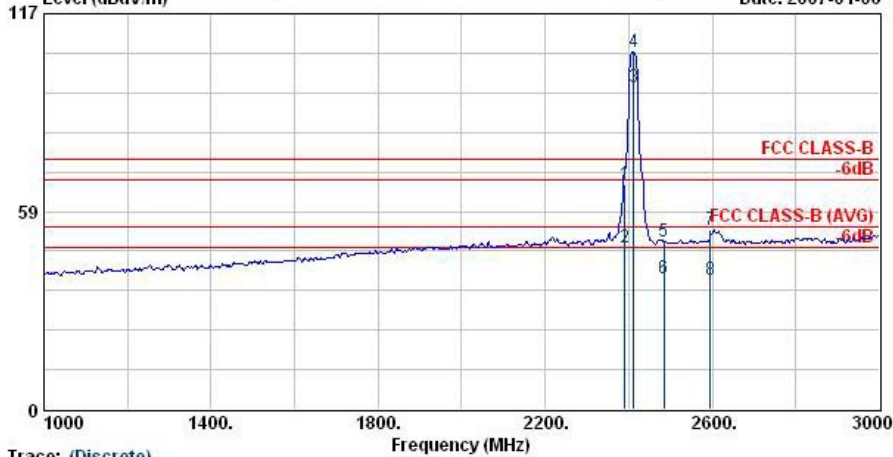


Trace: (Discrete)  
 Site : 08CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	505.8	39.06	-6.94	46.00	48.81	17.49	3.54	30.78	---	---	Peak
2 @	831.3	41.18	-4.82	46.00	46.95	20.04	4.64	30.45	100	165	Peak
3	852.3	35.36	-10.64	46.00	40.93	20.19	4.66	30.43	---	---	Peak



Data: 11 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN11g Tx\_Ch01.EMI (18) Level (dBuV/m) Date: 2007-01-06



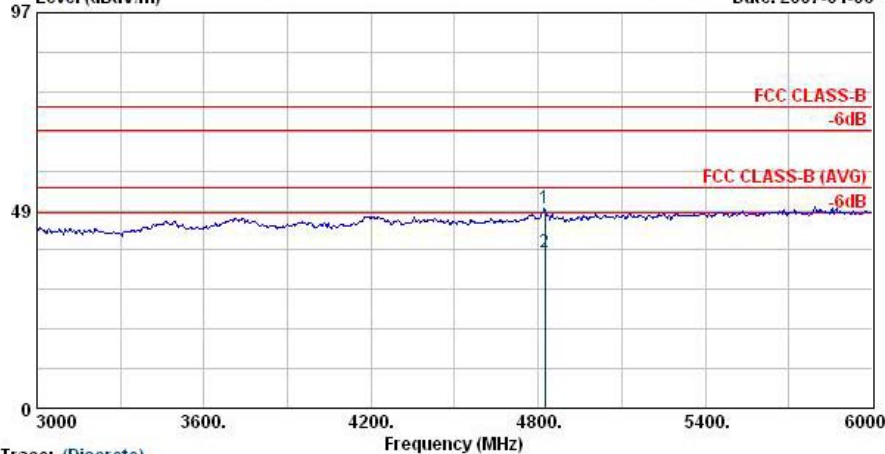
Trace: (Discrete)

Site : 08CH06-HY  
 Condition : HF-ANT-060410 VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01\_2412MHz  
 Plane : E2  
 Data Rate : 6

	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	2390.0	66.71	-7.29	74.00	68.16	30.26	3.75	35.46	100	0	Peak
2 !	2390.0	48.06	-5.94	54.00	49.51	30.26	3.75	35.46	100	328	Average
3 @	2412.0	95.37			96.82	30.26	3.75	35.46	100	328	Average
4 @	2412.0	105.59			107.01	30.27	3.77	35.46	100	0	Peak
5	2484.0	49.58	-24.42	74.00	50.94	30.29	3.86	35.51	100	0	Peak
6	2484.0	38.90	-15.10	54.00	40.26	30.29	3.86	35.51	100	328	Average
7	2596.0	53.11	-20.89	74.00	54.51	30.16	3.96	35.52	100	0	Peak
8	2596.0	38.40	-15.60	54.00	39.80	30.16	3.96	35.52	100	328	Average

Remark: #3 and #4 Fundamental Signal

Data: 12 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN11g Tx\_Ch01.EMI (18) Level (dBuV/m) Date: 2007-01-06



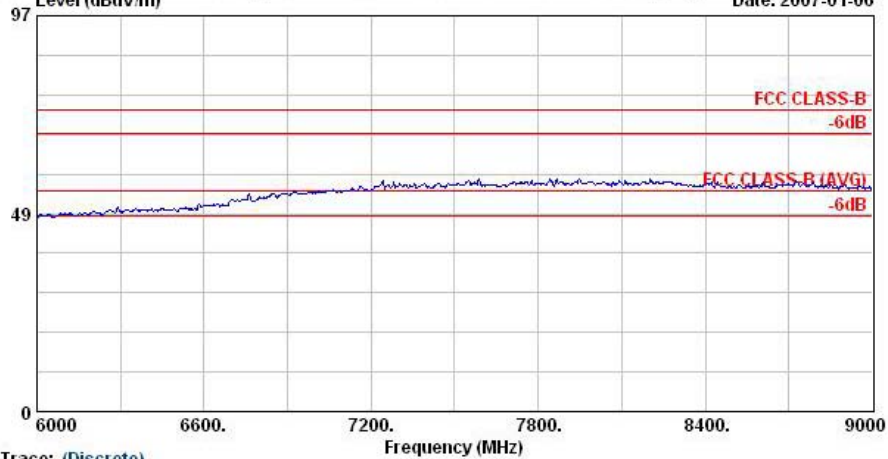
Trace: (Discrete)

Site : 08CH06-HY  
 Condition : HF-ANT-060410 VERTICAL  
 EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01\_2412MHz  
 Plane : E2  
 Data Rate : 6

	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	4824.0	48.89	-25.11	74.00	46.23	32.94	5.84	36.12	100	0	Peak
2	4824.0	38.24	-15.76	54.00	35.57	32.94	5.84	36.12	100	180	Average



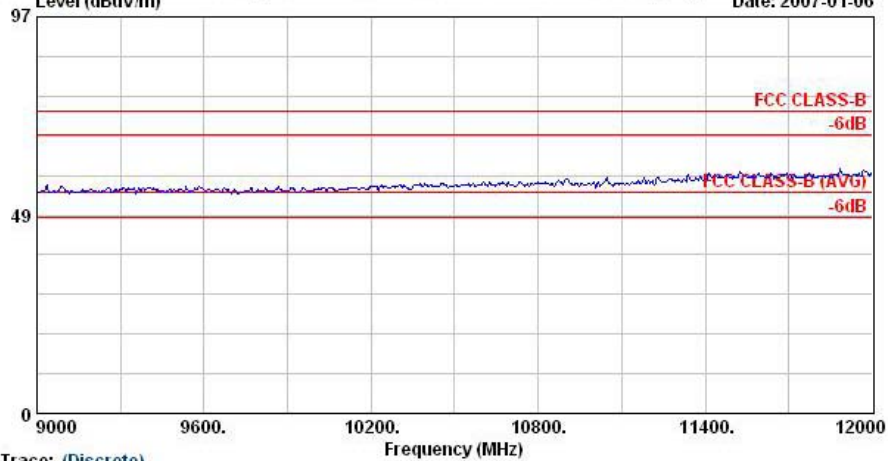
Data: 13 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN\11g Tx\_Ch01.EMI (18) Date: 2007-01-06



Trace: (Discrete)

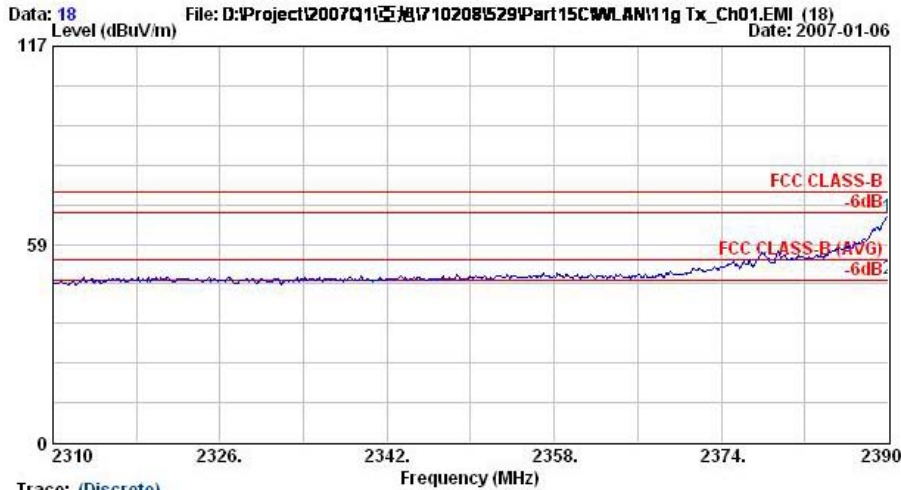
Site : 08CH06-HY  
Condition : HF-ANT-060410 VERTICAL  
EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
Power : 120Vac/60Hz  
Model : FR 710210  
Memo : 11g Tx\_Ch01;2412MHz  
Plane : E2  
Data Rate : 6

Data: 14 File: D:\Project\2007Q1\亞旭\710208\529\Part15C\WLAN\11g Tx\_Ch01.EMI (18) Date: 2007-01-06



Trace: (Discrete)

Site : 08CH06-HY  
Condition : HF-ANT-060410 VERTICAL  
EUT : PDA with GPRS/EDGE+WLAN 11g+BT  
Power : 120Vac/60Hz  
Model : FR 710210  
Memo : 11g Tx\_Ch01;2412MHz  
Plane : E2  
Data Rate : 6



Trace: (Discrete)  
 Site : 03CH06-HY  
 Condition : HP-ANT-060410 VERTICAL  
 EUT : FDA with GPRS/EDGE+WLAN 11g+BT  
 Power : 120Vac/60Hz  
 Model : FR 710210  
 Memo : 11g Tx\_Ch01;2412MHz  
 Plane : E2  
 Data Rate : 6

	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	2390.0	66.71	-7.29	74.00	68.16	30.26	3.75	35.46	100	0	Peak
2 @	2390.0	48.06	-5.94	54.00	49.51	30.26	3.75	35.46	100	328	Average

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



## **5.8 Antenna Requirements**

### **5.8.1 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.

### **5.8.2 Antenna Connected Construction**

The antennas used in this product are embedded Antenna for WLAN and BT without antenna connector and it is considered to meet antenna requirement of FCC.

### **5.8.3 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. 04, 2006	Dec. 04, 2007	Conduction (CO01-HY)
Spectrum analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Oct. 05, 2006	Oct. 04, 2007	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 13, 2006	Jul. 12, 2007	Radiation (03CH06-HY)
Controller	INN-CO	CO2000	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Mar. 29, 2006	Mar. 28, 2007	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Nov. 20, 2006	Nov. 19, 2008	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G - 26.5G	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Pre Amplifier	Mini Circuits	ZKL-2	D092004-1	10~2500MHz	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	INN-CO	MM3000	114/8000604/L	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)
Base Station Simulator	R & S	CMU200	106656	WCDMA	Nov. 20, 2006	Nov. 19, 2007	Radiation (05CH02-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
<b>combined standard uncertainty Uc(y)</b>	<b>1.13</b>		
<b>Measuring uncertainty for a level of confidence of 95% U=2Uc(y)</b>	<b>2.26</b>		

### 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
<b>combined standard uncertainty Uc(y)</b>	<b>1.27</b>		
<b>Measuring uncertainty for a level of confidence of 95% U=2Uc(y)</b>	<b>2.54</b>		



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
<b>Combined standard uncertainty <math>U_c(y)</math></b>	<b>2.36</b>				
<b>Measuring uncertainty for a level of confidence of 95% <math>U = 2U_c(y)</math></b>	<b>4.72</b>				