Co-location Report

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FCC TEST REPORT Report No.: FR130931-03

1 TEST RESULT

1.1 Radiated Emissions Measurement

1.1.1 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

1.1.2 Measuring Instruments and Setting

Please refer to section 2 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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1.1.3 Test Procedures

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

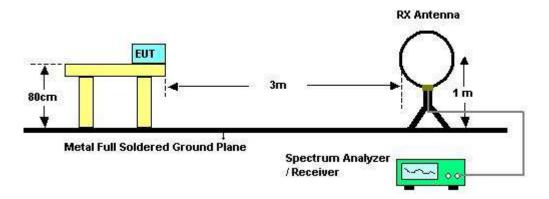
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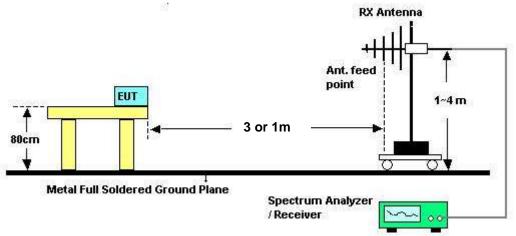
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1.1.4 Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m] / test distance [1m]}) (dB);$ Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

1.1.5 Test Deviation

There is no deviation with the original standard.

1.1.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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1.1.7 Results of Radiated Emissions (9kHz~30MHz)

Final Test Date	Aug. 04, 2011	Test Site No.	03CH02-HY
Temperature	24.2℃	Humidity	50.5%
Test Engineer	Daniel		

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Freq.	Level	Over Limit	Limit Line	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

Note:

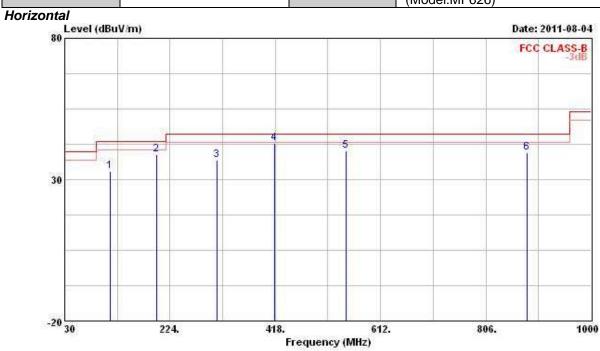
The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor.

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1.1.8 Results of Radiated Emissions (30MHz~1GHz)

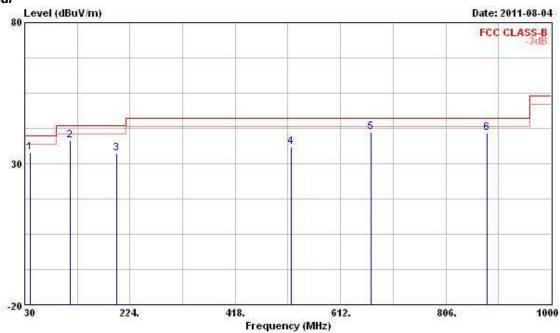
Final Test Date	Aug. 04, 2011	Test Site No.	03CH02-HY
Temperature	24.2 ℃	Humidity	50.5%
			WLAN + 3G Function
Test Engineer	Daniel	Configuration	ZTE 3G Dongle
			(Model:MF626)



	Freq	Level	Over Limit	58000		Antenna Factor		Self 165 55	Remark	Ant Pos	Table Pos
<u>s</u>	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	dB	×	- — cm	deg
1	113.420	33.10	-10.40	43.50	46.15	12.80	1.72	27.57	Peak		18.55
2	198.780	38.98	-4.52	43.50	52.46	11.28	2.31	27.07	Peak		-
3	311.300	36.91	-9.09	46.00	46.98	13.88	2.93	26.88	Peak		
4 @	417.030	42.89	-3.11	46.00	51.64	15.61	3.39	27.75	Peak		200
5	547.980	40.04	-5.96	46.00	45.76	18.66	3.78	28.16	Peak	20000	37,000
6	882.630	39.58	-6.42	46.00	41.97	20.07	4.95	27.41	Peak		-

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			Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	-	cm	deg
1	40.670	33.86	-6.14	40.00	47.63	13.01	1.01	27.79	Peak		
2	113.420	38.15	-5.35	43.50	51.20	12.80	1.72	27.57	Peak		
3	198.780	33.53	-9.97	43.50	47.01	11.28	2.31	27.07	Peak		
4	520.820	35.81	-10.19	46.00	42.30	17.90	3.79	28.18	Peak	-++	
5	668.260	41.23	-4.77	46.00	45.72	19.27	4.30	28.06	Peak		-
6	882.630	40.70	-5.30	46.00	43.09	20.07	4.95	27.41	Peak		

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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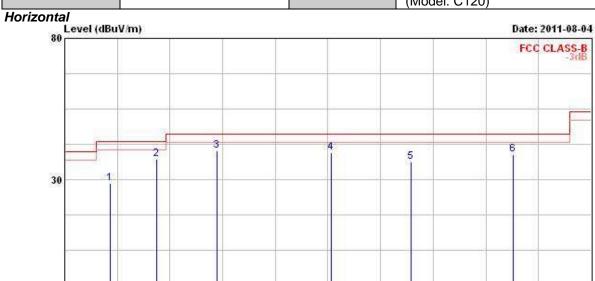
-20 30

224.

1000

806.

Final Test Date	Aug. 04, 2011	Test Site No.	03CH02-HY
Temperature	24.2 ℃	Humidity	50.5%
			WLAN + 3G Function
Test Engineer	Daniel	Configuration	BandLuxe 3G Dongle
			(Model: C120)



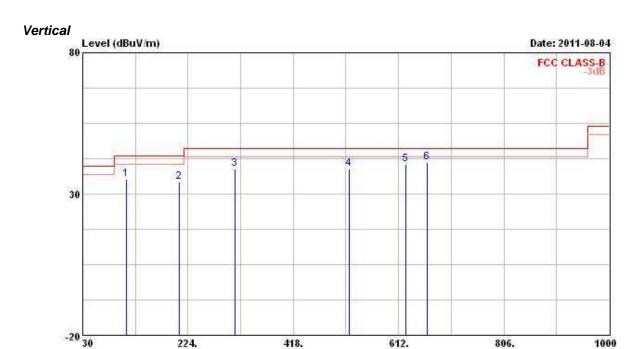
418.

Frequency (MHz)

612.

	Freq	Level	Over Limit	0.3547	188	Antenna Factor		(8)(8) (1)(8) (1)(8)		Ant Pos	Table Pos
<u></u>	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	dB		cm	deg
1	113.420	28.67	-14.83	43.50	41.72	12.80	1.72	27.57	Peak	277	-
2	198.780	37.13	-6.37	43.50	50.61	11.28	2.31	27.07	Peak	1000	
3	311.300	40.33	-5.67	46.00	50.40	13.88	2.93	26.88	Peak		222
4	520.820	39.68	-6.32	46.00	46.17	17.90	3.79	28.18	Peak	25.50	
5	668.260	36.18	-9.82	46.00	40.67	19.27	4.30	28.06	Peak	27.757	15000
6	855.470	38.85	-7.15	46.00	41.33	20.14	4.88	27.50	Peak	10.000	

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Frequency (MHz)

	DESCRIPTION OF		Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
2	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	дв	dB	8	cm.	deg
1	110.510	35.38	-8.12	43.50	48.79	12.46	1.70	27.57	Peak	500	1000
2	207.510	34.15	-9.35	43.50	47.20	11.60	2.37	27.02	Peak		-77.7
3	311.300	38.74	-7.26	46.00	48.81	13.88	2.93	26.88	Peak		
4	520.820	39.00	-7.00	46.00	45.49	17.90	3.79	28.18	Peak		
5	625.580	40.69	-5.31	46.00	44.84	19.84	4.14	28.13	Peak	556565	3535
6	665.350	41.04	-4.96	46.00	45.50	19.31	4.30	28.07	Peak	777	

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

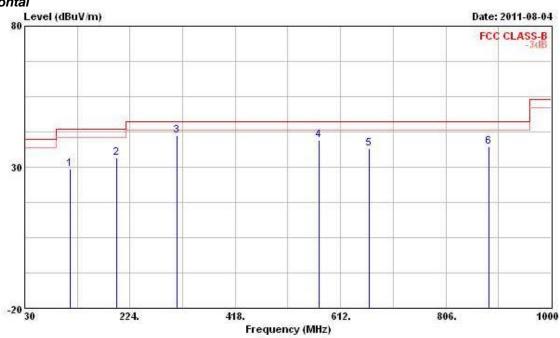
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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Final Test Date	Aug. 04, 2011	Test Site No.	03CH02-HY
Temperature	24.2 ℃	Humidity	50.5%
Test Engineer	Daniel	Configuration	WLAN + 3G Taiwan Mobile 3G Dongle (Model: Q101)

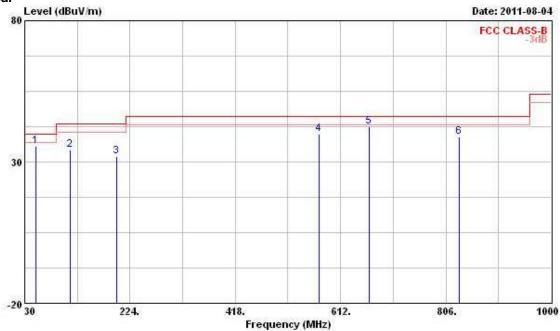
Horizontal



			Over	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	- dB		cm	deg
1	113.420	29.48	-14.02	43.50	42.53	12.80	1.72	27.57	Peak		
2	198.780	33.16	-10.34	43.50	46.64	11.28	2.31	27.07	Peak		
3	311.300	41.16	-4.84	46.00	51.23	13.88	2.93	26.88	Peak		
4	572.230	39.47	-6.53	46.00	44.39	19.36	3.88	28.16	Peak		
5	665.350	36.47	-9.53	46.00	40.93	19.31	4.30	28.07	Peak	****	1888
6	885.540	37.15	-8.85	46.00	39.53	20.06	4.96	27.40	Peak		

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			Over	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MXz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		can	deg
1	51.340	35.57	-4.43	40.00	53.07	9.16	1.14	27.80	Peak		
2	113.420	34.38	-9.12	43.50	47.43	12.80	1.72	27.57	Peak		
3	198.780	31.81	-11.69	43.50	45.29	11.28	2.31	27.07	Peak	211	200
4	572.230	39.73	-6.27	46.00	44.65	19.36	3.88	28.16	Peak		
5	665.350	42.63	-3.37	46.00	47.09	19.31	4.30	28.07	Peak		
6	831,220	39.01	-6.99	46.00	41.59	20.19	4.83	27.60	Peak	2.77	

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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1.1.9 Results for Radiated Emissions (1GHz~10th Harmonic)

6100.

1000

Final Test Date	Jul. 06, 2011	Test Site No.	03CH02-HY
Temperature	24.2 ℃	Humidity	50.5%
			WLAN + 3G Function
Test Engineer	Daniel	Configuration	ZTE 3G Dongle
			(Model:MF626)



11200.

Frequency (MHz)

16300.

21400.

26500

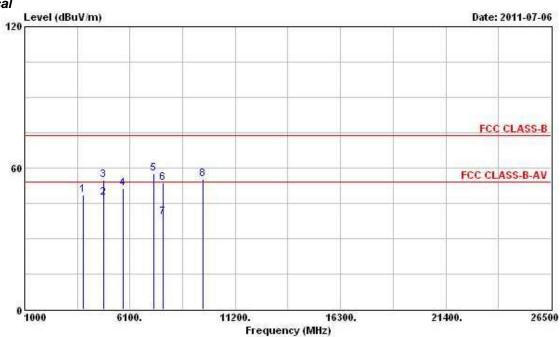
			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB		cm	deg
1	3844.000	47.98	-26.02	74.00	44.40	34.09	4.06	34.57	Peak		
2	4824.000	52.56	-21.44	74.00	46.73	35.76	4.58	34.51	Peak	277	
3	4824.000	41.19	-12.81	54.00	35.36	35.76	4.58	34.51	Average	55,650	2500
4	5766.000	50.78			43.05	37.01	5.07	34.35	Peak		
5	7236.000	56.27			47.08	37.85	5.63	34.29	Peak		
6	7688.000	39.83	-14.17	54.00	30.43	38.01	5.71	34.32	Average	277	
7	7688.000	53.93	-20.07	74.00	44.53	38.01	5.71	34.32	Peak	55,650	2500
8	9648.000	55.24			44.14	39.39	6.34	34.63	Peak		

Note: The Items 4, 5 and 8 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions.

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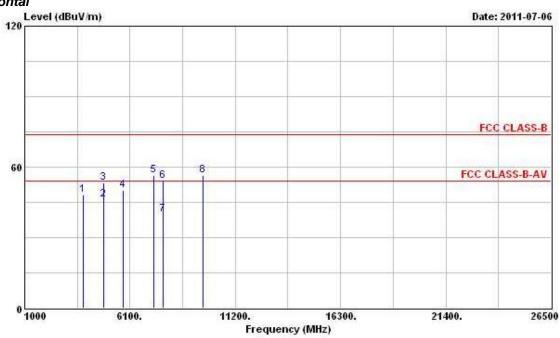
			Over	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	3844.000	48.72	-25.28	74.00	45.31	33.92	4.06	34.57	Peak		net.
2	4824.000	47.37	-6.63	54.00	42.17	35.13	4.58	34.51	Average	277	
3	4824.000	54.75	-19.25	74.00	49.55	35.13	4.58	34.51	Peak	55-153	250
4	5766.000	51.25			44.32	36.21	5.07	34.35	Peak		-
5	7236.000	57.62			49.38	36.90	5.63	34.29	Peak		555
6	7688.000	53.80	-20.20	74.00	45.30	37.11	5.71	34.32	Peak	277	
7	7688.000	39.05	-14.95	54.00	30.55	37.11	5.71	34.32	Average	55,650	225
8	9648.000	55.44			45.14	38.59	6.34	34.63	Peak		

Note: The Items 4, 5 and 8 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions.

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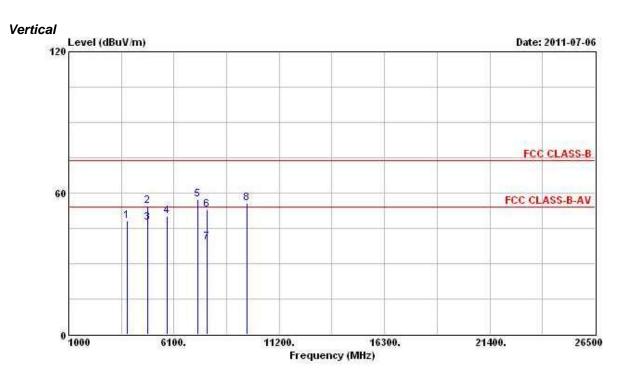
Final Test Date	Jul. 06, 2011	Test Site No.	03CH02-HY
Temperature	24.2 ℃	Humidity	50.5%
			WLAN + 3G Function
Test Engineer	Daniel	Configuration	BandLuxe 3G Dongle
			(Model: C120)

Horizontal



			Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	дв	dB	-	cm	deg
1	3844.000	48.35	-25.65	74.00	44.77	34.09	4.06	34.57	Peak		
2	4824.000	46.32	-7.68	54.00	40.49	35.76	4.58	34.51	Average		
3	4824.000	53.42	-20.58	74.00	47.59	35.76	4.58	34.51	Peak		
4	5766.000	49.95			42.22	37.01	5.07	34.35	Peak		
5	7236.000	56.42			47.23	37.85	5.63	34.29	Peak		
6	7688.000	54.13	-19.87	74.00	44.73	38.01	5.71	34.32	Peak	-	
7	7688.000	39.76	-14.24	54.00	30.36	38.01	5.71	34.32	Average		
8	9648.000	56.40			45.30	39.39	6.34	34.63	Peak		

Note: The Items 4, 5 and 8 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions.



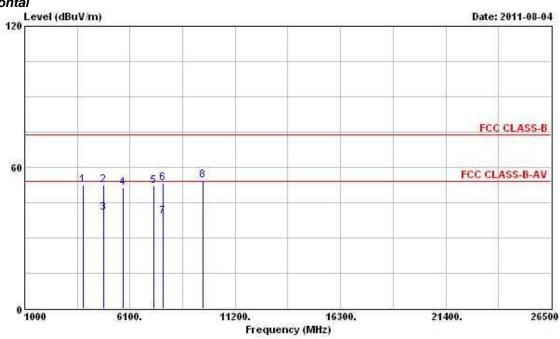
			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
3	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	* <u> </u>	cm	deg
1	3844.000	48.04	-25.96	74.00	44.63	33.92	4.06	34.57	Peak	-50.000	1000
2	4824.000	54.38	-19.62	74.00	49.18	35.13	4.58	34.51	Peak	-	
3	4824.000	47.36	-6.64	54.00	42.16	35.13	4.58	34.51	Average		
4	5766.000	49.99			43.06	36.21	5.07	34.35	Peak		
5	7236.000	57.08			48.84	36.90	5.63	34.29	Peak	550,360	15000
6	7688.000	52.85	-21.15	74.00	44.35	37.11	5.71	34.32	Peak		
7	7688.000	38.89	-15.11	54.00	30.39	37.11	5.71	34.32	Average		
8	9648.000	55.72			45.42	38.59	6.34	34.63	Peak		

Note: The Items 4, 5 and 8 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions.

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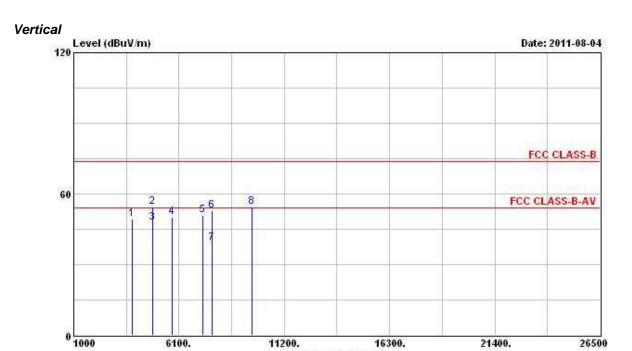
Final Test Date	Aug. 04, 2011	Test Site No.	03CH02-HY
Temperature	24.2 ℃	Humidity	50.5%
Test Engineer	Daniel	Configuration	WLAN + 3G Taiwan Mobile 3G Dongle (Model: Q101)

Horizontal



			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	Mz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	3844.000	52.38	-21.62	74.00	48.80	34.09	4.06	34.57	Peak		
2	4824.000	52.63	-21.37	74.00	46.80	35.76	4.58	34.51	Peak	777	
3	4824.000	40.52	-13.48	54.00	34.69	35.76	4.58	34.51	Average	50,600	2500
4	5766.000	51.44			43.71	37.01	5.07	34.35	Peak		
5	7236.000	52.18			42.99	37.85	5.63	34.29	Peak		
6	7688.000	53.18	-20.82	74.00	43.78	38.01	5.71	34.32	Peak		
7	7688.000	38.98	-15.02	54.00	29.58	38.01	5.71	34.32	Average	2.50	
8	9648.000	54.50			43.40	39.39	6.34	34.63	Peak		

Note: The Items 4, 5 and 8 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions.



Frequency (MHz)

			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	8	cm	deg
1	3844.000	49.45	-24.55	74.00	46.04	33.92	4.06	34.57	Peak		
2	4824.000	54.43	-19.57	74.00	49.23	35.13	4.58	34.51	Peak	222	
3	4824.000	47.76	-6.24	54.00	42.56	35.13	4.58	34.51	Average	220000	12500
4	5766.000	50.25			43.32	36.21	5.07	34.35	Peak		
5	7236.000	51.08			42.84	36.90	5.63	34.29	Peak		-
6	7688.000	53.09	-20.91	74.00	44.59	37.11	5.71	34.32	Peak	277	
7	7688.000	39.09	-14.91	54.00	30.59	37.11	5.71	34.32	Average	5000	250.6
8	9648.000	54.30			44.00	38.59	6.34	34.63	Peak		

Note: The Items 4, 5 and 8 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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2 LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP40	100305/040	9 kHz ~ 40 GHz	Feb. 11, 2011	Radiation (03CH02-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30 MHz ~ 1 GHz 3m	May 11, 2011	Radiation (03CH02-HY)
Amplifier	Agilent	8447D	2944A11146	100 kHz ~ 1.3 GHz	Jul. 25, 2011	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02373	1 GHz ~ 26.5 GHz	Jul. 25, 2011	Radiation (03CH02-HY)
Horn Antenna	ETS-LINDGREN	3117	00091920	1 GHz ~ 18 GHz	Nov. 11, 2010	Radiation (03CH02-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz ~ 1 GHz	Mar. 07, 2011	Radiation (03CH02-HY)
RF Cable-high	SUHNER	SUCOFLEX106	03CH02-HY	1 GHz ~ 40 GHz	Mar. 07, 2011	Radiation (03CH02-HY)
Bilog Antenna	SCHAFFNER	CBL61128	2723	30 MHz ~ 2 GHz	Oct. 16, 2010	Radiation (03CH02-HY)
Turn Table	HD	DS 420	420/649/00	0 - 360 degree	N/A	Radiation (03CH02-HY)
Antenna Mast	НО	MA 240	240/559/00	1 m - 4 m	N/A	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Loop Antenna	R&S	HFH2-Z2	860004/001	9kHz ~ 30MHz	Jul. 29, 2010*	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is two year.

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3 TEST LOCATION

SHIJR	ADD	:	6FI., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
	TEL	:	886-2-2696-2468
	FAX	:	886-2-2696-2255
HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
	TEL	:	886-3-327-3456
	FAX	:	886-3-318-0055
LINKOU	ADD	:	No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
	TEL	:	886-2-2601-1640
	FAX	:	886-2-2601-1695
DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
	TEL	:	886-2-2631-4739
	FAX	:	886-2-2631-9740
JUNGHE	ADD	:	7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.
	TEL	:	886-2-8227-2020
	FAX	:	886-2-8227-2626
NEIHU	ADD	:	4FI., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C.
	TEL	:	886-2-2794-8886
	FAX	:	886-2-2794-9777
JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
	TEL	:	886-3-656-9065
	FAX	:	886-3-656-9085

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