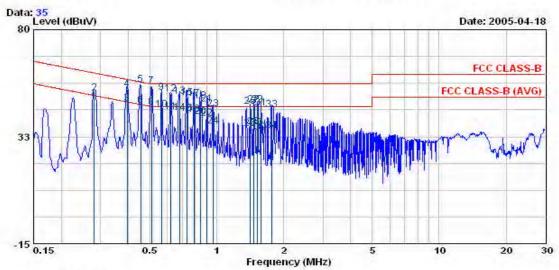
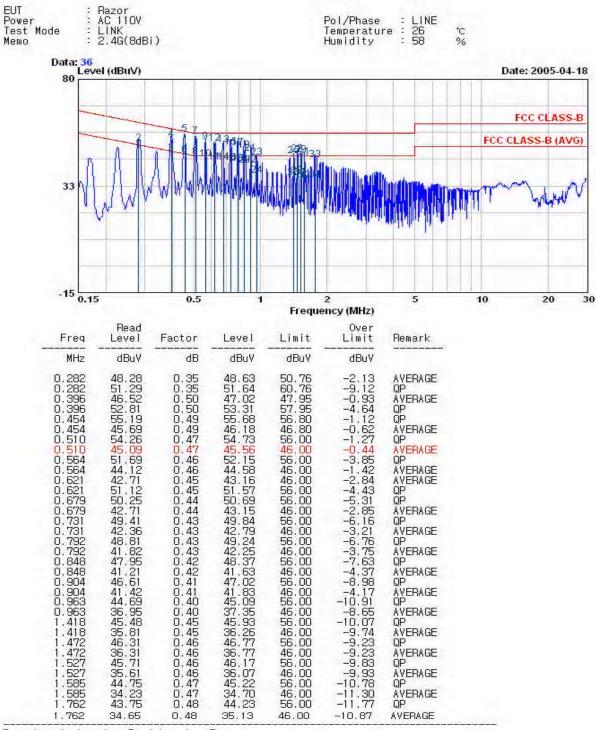
## Test mode 4





Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.282 0.282 0.396 0.454 0.454 0.510 0.564 0.621 0.679 0.731 0.731 0.792 0.848 0.963 0.963 1.418 1.472 1.527 1.585 1.585 1.762	48.12 48.12 46.75 52.979 54.80 54.31 45.86 50.96 50.96 42.75 64.36 42.75 64.36 42.75 64.36 44.50 46.31 4	0.35 0.35 0.49 0.44 0.445 0.445 0.445 0.445 0.445 0.445 0.445 0.445 0.445 0.446 0.447 0.446 0.447 0.446 0.447 0.447 0.446 0.447 0.446 0.447 0.446 0.447 0.447 0.446 0.447 0.446 0.447 0.446 0.447 0.446 0.447 0.446 0.447 0.446 0.447 0.446 0.447 0.446 0.447 0.446 0.44	48. 47 51. 66 47. 25 53. 68 46. 29 54. 78 45. 57 52. 31 44. 32 51. 51 51. 51 42. 38 42. 38 41. 52 42. 38 44. 90 45. 21 36. 23 46. 58 46. 33 46. 58 46. 33 46. 33 46. 33 47 36. 33 48. 34 57 57 57 57 57 57 57 57 57 57 57 57 57	50.76 60.76 47.95 56.80 46.00	-2.29 -9.10 -0.70 -4.48 -1.56 -1.56 -1.56 -1.56 -1.56 -2.69 -1.68 -3.62 -7.67 -4.46 -9.28 -1.10 -9.42 -9.56 -9.67 -10.66 -11.41 -11.63	AVERAGE QP
1.762	34.71	0.48	35.19	46.00	-10.81	AVERAGE

Remarks: 1. Level = Read Level + Factor 2. Factor = LISN(ISN) Factor + Cable Loss



Remarks: 1. Level = Read Level + Factor 2. Factor = LISN(ISN) Factor + Cable Loss

Test engineer:

## 2.5.1 Photographs of Conducted Emission Test

Test mode 1, 2



Front View



Rear View

Test mode 3, 4



Front View



Rear View

## 3. Test of Radiated Emission

### 3.1. Test Limit

Radiated emissions from 30 MHz to 1,000 MHz were measured with a bandwidth of 120 kHz according to the methods defines in ANSI C63.4-2003. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in section 3.2. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency	Distance	Radiated	Radiated	
(MHz)	Meters	(µ <b>V/M</b> )	(dB µ V/M)	
30-88	3	100	40.0	
88-216	3	150	43.5	
216-960	3	200	46.0	
Above 960	3	500	54.0	

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the above table.

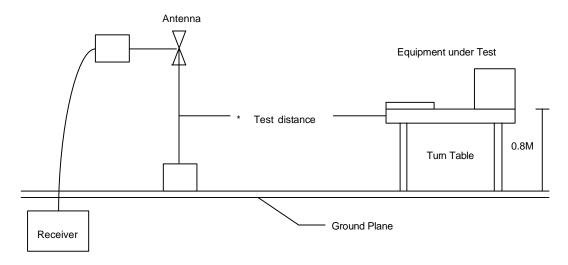
Frequency	Distance	Radiated		
(MHz)	Meters	(dB µ V/M)		
30-230	10	30		
230-1000	10	37		

#### 3.2. Test Procedures

- a. The EUT was placed on a Rota table top 0.8 meter above ground.
- b. The EUT was set 10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 6 dB margin will be repeated one by one using the quasi-peak method and reported.

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# 3.3. Typical test Setup



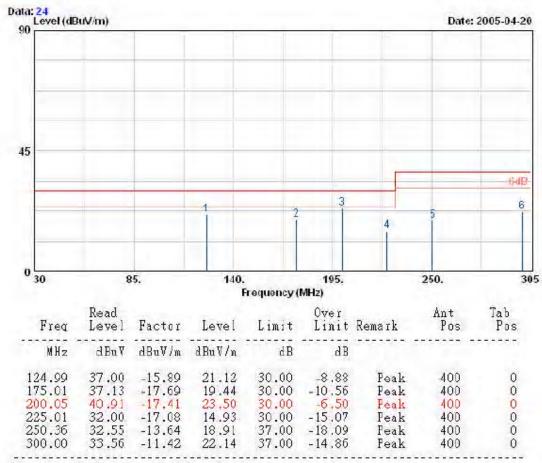
# 3.4. Measurement equipment

Instrument	Model No.	Manufacturer	Next Cal. Date	
Bilog Antenna	CBL6111C	Schaffner	2006/02/14	
Signal Generator	8648B	HP	2006/02/09	
Amplifier	8447D	Agilent	2005/10/09	
Amplifier	8447D	Agilent	2005/06/30	
EMI Receiver	8546A	HP	2006/04/13	
RF Filter Section	85460A	HP	2006/04/13	
AC Power Converter	AFC-11005	APC	N/A	

## 3.5. Test Result and Data

The test result including four kind of mode

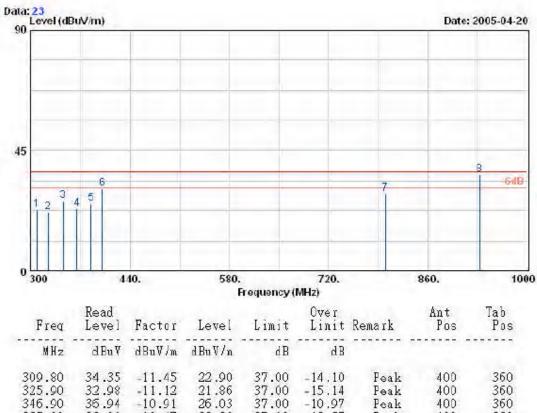
#### Test mode 1



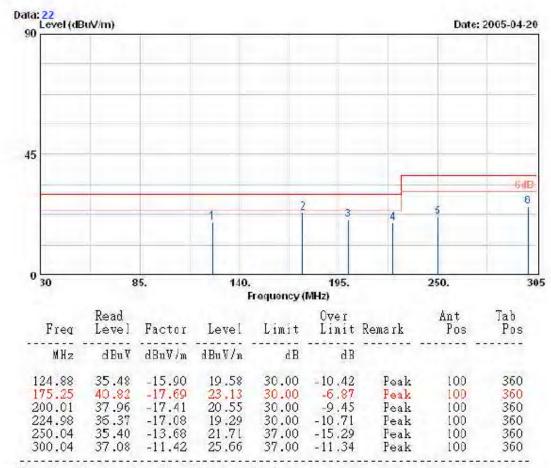
Remarks: 1. Level = Read Level + factor

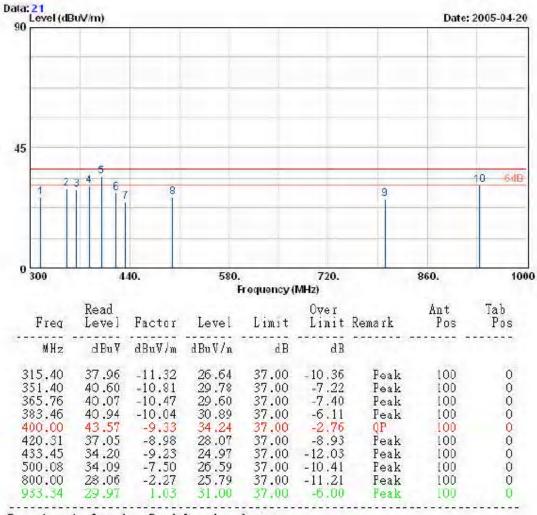
<sup>2.</sup> Factor = Antenna factor + Cable loss - Amplifier factor

EUT : RAZOR Power : AC 110V Pol/Phase : HORIZONTAL Test Mode : LINK Temperature : 27  $^{\circ}$ C Memo : 5.86(4dBi) Humidity : 68  $^{\circ}$ 6



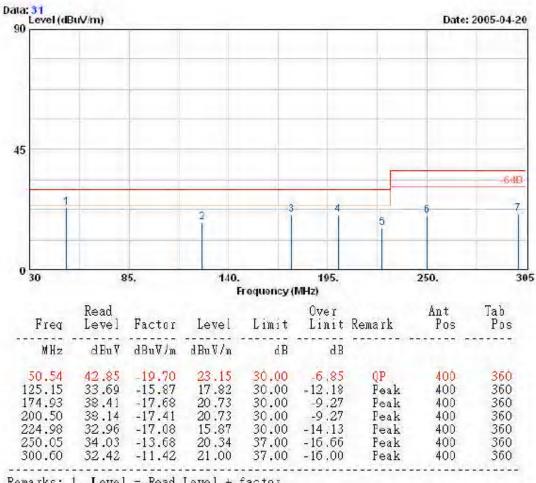
23 .33 25 .25 365.80 37.00 -13.67 33.80 -10.47Peak 400 360 35.20 -11.75 385.40 -9.96 37.00 400 360 Peak 400.00 40.05 -9.33 30.72 37.00 -6,28 QP 400 360 799.96 31.17 -2.2728.90 37.00 -8.10 Feak 400 360 35.99 37.00 933.33 34.96 1.03 -1.01Peak 100 350





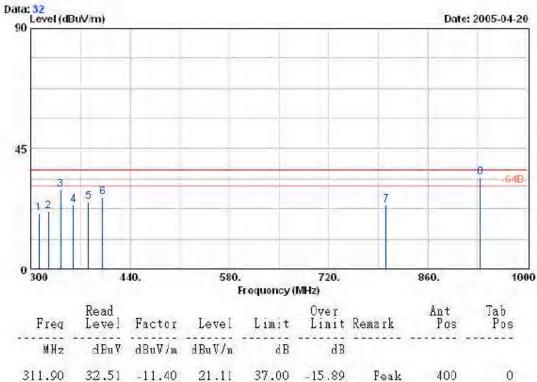
### Test mode 2

EUT : RAZOR Power. Pol/Phase : HORIZONTAL : AC 110V : LINK Test Mode Temperature: 27 % Memo : 2.4G(3dBi) Hamidity : 68

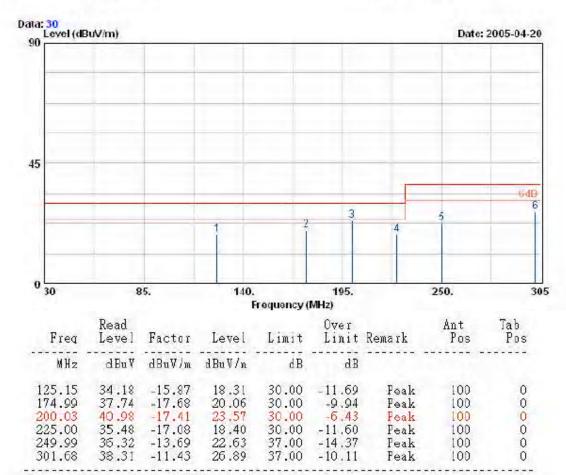


Remarks: 1. Level = Read Level + factor

<sup>2.</sup> Factor = Antenna factor + Cable loss - Amplifier factor

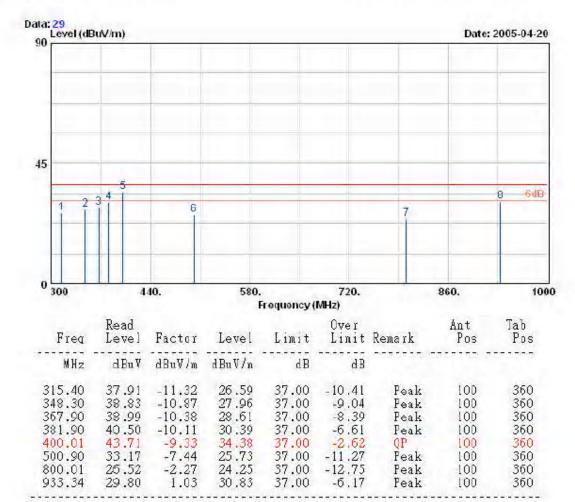


Level	Factor	Level	Limit		Remark	Pos	Pos
dBuV	dBuV/m	dBuV/n	dВ	dB		,444,444	H-1
32.51	-11.40	21.11	37.00	-15.89	Feak	400	0
32.80	-11.12	21.68	37.00	-15.32	Feak	400	0
40.87	-11.02	29.85	37.00	-7.15	Feak	400	0
34.57	-10.66	23.91	37.00	-13.09	Feak	400	0
35.35	-10.11	25.23	37.00	-11.77	Feak	400	0
36.14	-9.33	26.81	37.00	-10.19	Feak	400	0 0 0 0
25.06	-2.26	23.80	37.00	-13.20	Feak	400	0
33.42	1.03	34.46	37.00	-2.54	QP	400	0
	dBuV 32.51 32.90 40.87 34.57 35.35 36.14 25.06	Level Factor  dBuV dBuV/m  32.51 -11.40 32.80 -11.12 40.87 -11.02 34.57 -10.66 35.35 -10.11 36.14 -9.33 25.06 -2.26	Level Factor Level  dBuV dBuV/m dBuV/m  32.51 -11.40 21.11  32.80 -11.12 21.68  40.87 -11.02 29.85  34.57 -10.66 23.91  35.35 -10.11 25.23  36.14 -9.33 26.81  25.06 -2.26 23.80	Level Factor Level Limit  dBuV dBuV/m dBuV/n dB  32.51 -11.40 21.11 37.00 32.90 -11.12 21.68 37.00 40.87 -11.02 29.85 37.00 34.57 -10.66 23.91 37.00 35.35 -10.11 25.23 37.00 36.14 -9.33 26.81 37.00 25.06 -2.26 23.80 37.00	Level         Factor         Level         Limit         Linit           dBuV         dBuV/m         dBuV/n         dB         dB           32.51         -11.40         21.11         37.00         -15.89           32.90         -11.12         21.68         37.00         -15.32           40.87         -11.02         29.85         37.00         -7.15           34.57         -10.66         23.91         37.00         -13.09           35.35         -10.11         25.23         37.00         -11.77           36.14         -9.33         26.81         37.00         -10.19           25.06         -2.26         23.80         37.00         -13.20	Level         Factor         Level         Limit         Linit         Remark           dBuV         dBuV/m         dB         dB           32.51         -11.40         21.11         37.00         -15.89         Feak           32.80         -11.12         21.68         37.00         -15.32         Feak           40.87         -11.02         29.85         37.00         -7.15         Feak           34.57         -10.66         23.91         37.00         -13.09         Feak           35.35         -10.11         25.23         37.00         -11.77         Feak           36.14         -9.33         26.81         37.00         -10.19         Feak           25.06         -2.26         23.80         37.00         -13.20         Feak	Level         Factor         Level         Limit         Linit         Remark         Pos           dBuV         dBuV/m         dB         dB         dB           32.51         -11.40         21.11         37.00         -15.89         Feak         400           32.80         -11.12         21.68         37.00         -15.32         Feak         400           40.87         -11.02         29.85         37.00         -7.15         Feak         400           34.57         -10.66         23.91         37.00         -13.09         Feak         400           35.35         -10.11         25.23         37.00         -11.77         Feak         400           36.14         -9.33         26.81         37.00         -10.19         Feak         400           25.06         -2.26         23.80         37.00         -13.20         Feak         400



Remarks: 1. Level = Read Level + factor

2. Factor = Antenna factor + Cable loss - Amplifier factor



Remarks: 1. Level = Read Level + factor

2. Factor = Antenna factor + Cable loss - Amplifier factor