

## 7. Test of Radiated Emission

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defined in ANSI C63.4-2001. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions

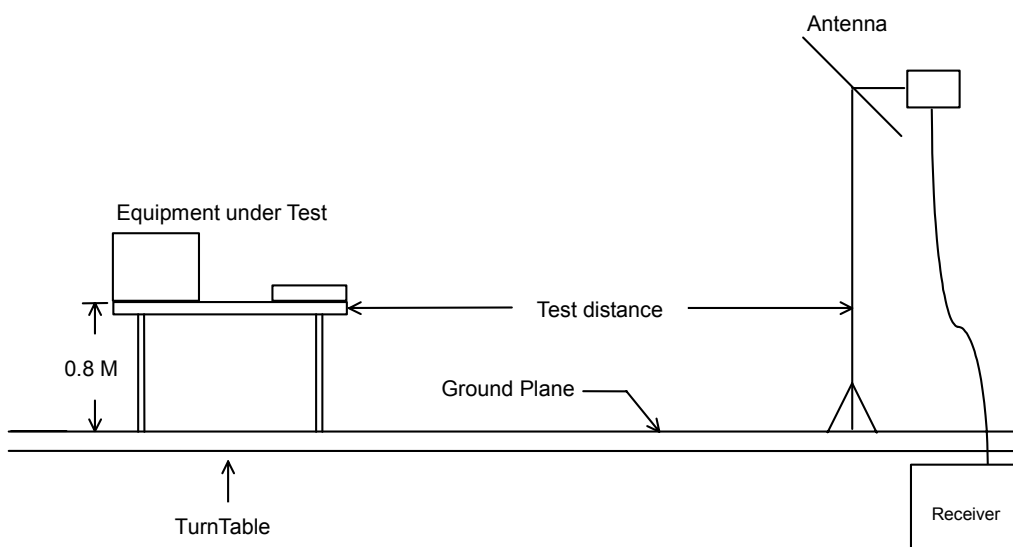
### 7.1. Major Measuring Instruments

- Amplifier (MITEQ AFS44 )
  - RF Gain 40 dB
  - Signal Input 100 MHz to 26.5 GHz
  
- Amplifier (HP8447D)
  - RF Gain 30 dB
  - Signal Input 100 MHz to 1.3 GHz
  
- Spectrum analyzer ( R&S FSP40 )
  - Attenuation 10 dB
  - Start Frequency 1 GHz
  - Stop Frequency 25 GHz
  - Resolution Bandwidth 1 MHz
  - Video Bandwidth 1 MHz
  - Signal Input 9 kHz to 40 GHz
  
- Spectrum analyzer ( R&S FSP40 )
  - Attenuation 10 dB
  - Start Frequency 30MHz
  - Stop Frequency 1 GHz
  - Resolution Bandwidth 120 KHz
  - Video Bandwidth 300KHz
  - Signal Input 9 kHz to 40 GHz

### 7.2. Test Procedures

1. The EUT was placed on a rotatable table top 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. 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 turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average 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.

### 7.3. Typical Test Setup Layout of Radiated Emission



7.4. Test Result of Radiated Emission

7.4.1 Test Mode: Mode 1

- Test Distance : 3 m
- Temperature : 22.5°C
- Relative Humidity :56 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading : Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

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

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m BIC-9124--301 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	42.070	35.12	-4.88	40.00	52.01	10.88	0.25	28.02	Peak	100	360
2	45.640	34.58	-5.42	40.00	51.85	10.54	0.20	28.01	Peak	100	360
3	132.510	31.46	-12.04	43.50	47.24	11.46	0.59	27.83	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m LOG-9111-221 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	400.000	33.76	-12.24	46.00	44.59	15.79	1.18	27.80	Peak	100	360
2	528.000	32.48	-13.52	46.00	42.23	17.59	1.39	28.73	Peak	100	360
3	800.000	34.06	-11.94	46.00	40.87	20.38	1.61	28.80	Peak	100	360

**FCC TEST REPORT**

**Report No. : F411614**

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m BIC-9124--301 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	84.230	32.81	-7.19	40.00	50.65	9.70	0.39	27.93	Peak	100	360
2 !	165.830	40.39	-3.11	43.50	54.43	13.02	0.71	27.77	Peak	100	360
3 !	199.320	38.09	-5.41	43.50	49.98	14.78	1.03	27.70	QP	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m LOG-9111-221 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	220.800	36.17	-9.83	46.00	48.88	14.03	0.88	27.62	Peak	100	360
2	359.200	37.43	-8.57	46.00	48.71	15.23	1.09	27.60	Peak	100	360
3	400.000	36.83	-9.17	46.00	47.66	15.79	1.18	27.80	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1 !	2390.000	72.72	-1.28	74.00	73.79	28.20	6.97	36.24	Peak	---	---
2 !	2390.000	50.35	-3.65	54.00	51.42	28.20	6.97	36.24	Average	---	---
3 X	2414.000	103.88	49.88	54.00	104.86	28.25	7.00	36.23	Average	112	295
4 X	2414.000	112.67	38.67	74.00	113.65	28.25	7.00	36.23	Peak	---	---
5	2483.500	63.28	-10.72	74.00	63.95	28.39	7.16	36.22	Peak	---	---
6 !	2483.500	51.81	-2.19	54.00	52.48	28.39	7.16	36.22	Average	---	---

**FCC TEST REPORT**

**Report No. : F411614**

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4824.000	36.26	-17.74	54.00	29.23	33.07	10.16	36.20	Average	112	295
2	4824.000	56.10	-17.90	74.00	49.07	33.07	10.16	36.20	Peak	---	---

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	7236.000	38.18	-15.82	54.00	25.56	35.89	13.20	36.47	Average	112	295
2	7236.000	62.94	-11.06	74.00	50.32	35.89	13.20	36.47	Peak	---	---

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	2390.000	62.36	-11.64	74.00	63.43	28.20	6.97	36.24	Peak	---	---
2	2390.000	43.25	-10.75	54.00	44.32	28.20	6.97	36.24	Average	---	---
3 X	2412.000	106.50	32.50	74.00	107.49	28.24	7.00	36.23	Peak	112	295
4 X	2412.000	98.54	44.54	54.00	99.53	28.24	7.00	36.23	Average	112	295
5	2483.500	56.93	-17.07	74.00	57.60	28.39	7.16	36.22	Peak	---	---
6	2483.500	44.45	-9.55	54.00	45.12	28.39	7.16	36.22	Average	---	---

**FCC TEST REPORT**

**Report No. : F411614**

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4824.000	56.11	-17.89	74.00	50.18	33.07	9.06	36.20	Peak	---	---
2	4824.000	44.99	-9.01	54.00	39.06	33.07	9.06	36.20	Average	112	295

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	7236.000	62.84	-11.16	74.00	51.07	35.89	12.35	36.47	Peak	---	---
2	7236.000	50.28	-3.72	54.00	38.51	35.89	12.35	36.47	Average	112	295

For 7.236GHz ~ 25GHz

Frequency from 7236MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

Frequency ( MHz )	Antenna Polarity	Cable Factor	Reading Loss	Limits ( dBuV )	Emission ( dBuV/m )	Level ( dBuV/m )	Margin ( uV/m )	Detect ( dB )	Mode
2414.000	V	28.25	7.00	77.42	-	112.67	430031.23	-	Peak
2414.000	V	28.25	7.00	68.63	-	103.88	156314.76	-	AV
2412.000	H	28.24	7.00	71.26	-	106.50	211348.90	-	Peak
2412.000	H	28.24	7.00	63.30	-	98.54	84527.88	-	AV
4824.000	V	33.07	10.16	12.87	74.00	56.10	638.26	-17.90	Peak
4824.000	V	33.07	10.16	-6.97	54.00	36.26	65.01	-17.74	AV
7236.000	V	35.89	13.20	13.85	74.00	62.94	1402.81	-11.06	Peak
7236.000	V	35.89	13.20	-10.91	54.00	38.18	81.10	-15.82	AV
4824.000	H	33.07	9.06	13.98	74.00	56.11	639.00	-17.89	Peak
4824.000	H	33.07	9.06	2.86	54.00	44.99	177.62	-9.01	AV
7236.000	H	35.89	12.35	-15.40	74.00	32.84	43.85	-41.16	Peak
7236.000	H	35.89	12.35	2.04	54.00	50.28	326.59	-3.72	AV
9648.000	V/H	-	-	-	-	-	-	-	AV/Peak
12060.000	V/H	-	-	-	-	-	-	-	AV/Peak
14472.000	V/H	-	-	-	-	-	-	-	AV/Peak
16884.000	V/H	-	-	-	-	-	-	-	AV/Peak
19296.000	V/H	-	-	-	-	-	-	-	AV/Peak
21708.000	V/H	-	-	-	-	-	-	-	AV/Peak
24120.000	V/H	-	-	-	-	-	-	-	AV/Peak

Remark:

1. The emission emitted by the EUT is too low to be measured except the emission listed above,
2. Reading = Reading on SA-Preamp Factor

Test Engineer : Jones Tsai  
 Jones Tsai

7.4.2 Test Mode: Mode 2

- Test Distance : 3 m
- Temperature : 22.5°C
- Relative Humidity :56 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading : Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

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

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m BIC-9124--301 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	42.070	34.25	-5.75	40.00	51.14	10.88	0.25	28.02	Peak	100	360
2	48.020	25.74	-14.26	40.00	43.20	10.25	0.29	28.00	Peak	208	360
3	99.700	27.86	-15.64	43.50	45.50	9.77	0.49	27.90	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m LOG-9111-221 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	400.000	34.40	-11.60	46.00	45.23	15.79	1.18	27.80	Peak	100	360
2	528.000	32.61	-13.39	46.00	42.36	17.59	1.39	28.73	Peak	100	360
3	794.400	34.19	-11.81	46.00	41.04	20.34	1.60	28.79	Peak	100	360



**FCC TEST REPORT**

**Report No. : F411614**

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m BIC-9124--301 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	84.230	33.13	-6.87	40.00	50.97	9.70	0.39	27.93	Peak	100	360
2 !	166.340	39.96	-3.54	43.50	53.96	13.05	0.72	27.77	Peak	100	360
3 !	200.000	40.45	-3.05	43.50	52.32	14.80	1.03	27.70	QP	173	304

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m LOG-9111-221 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1 !	200.000	37.72	-5.78	43.50	49.00	15.39	1.03	27.70	Peak	100	360
2	359.200	37.47	-8.53	46.00	48.75	15.23	1.09	27.60	Peak	100	360
3	400.000	37.03	-8.97	46.00	47.86	15.79	1.18	27.80	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	2390.000	56.10	-17.90	74.00	57.17	28.20	6.97	36.24	Peak	---	---
2	2390.000	43.80	-10.20	54.00	44.87	28.20	6.97	36.24	Average	---	---
3 X	2438.000	105.96	51.96	54.00	106.86	28.30	7.03	36.23	Average	112	295
4 X	2438.000	114.83	40.83	74.00	115.73	28.30	7.03	36.23	Peak	---	---
5	2483.500	56.83	-17.17	74.00	57.50	28.39	7.16	36.22	Peak	---	---
6	2483.500	44.97	-9.03	54.00	45.64	28.39	7.16	36.22	Average	---	---

**FCC TEST REPORT**

**Report No. : F411614**

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4874.000	65.35	-8.65	74.00	59.29	33.17	9.09	36.20	Peak	---	---
2	4874.000	44.56	-9.44	54.00	38.50	33.17	9.09	36.20	Average	112	259

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	7311.000	61.78	-12.22	74.00	49.80	36.07	12.41	36.50	Peak	---	---
2	7311.000	50.58	-3.42	54.00	38.60	36.07	12.41	36.50	Average	112	295

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	2390.000	55.61	-18.39	74.00	56.68	28.20	6.97	36.24	Peak	---	---
2	2390.000	43.68	-10.32	54.00	44.75	28.20	6.97	36.24	Average	---	---
3	X 2438.000	98.13	44.13	54.00	99.03	28.30	7.03	36.23	Average	112	259
4	X 2438.000	106.86	32.86	74.00	107.76	28.30	7.03	36.23	Peak	---	---
5	2483.500	56.25	-17.75	74.00	56.92	28.39	7.16	36.22	Peak	---	---
6	2483.500	45.11	-8.89	54.00	45.78	28.39	7.16	36.22	Average	---	---

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4874.000	55.92	-18.08	74.00	49.86	33.17	9.09	36.20	Peak	---	---
2	4874.000	44.56	-9.44	54.00	38.50	33.17	9.09	36.20	Average	112	295

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	7311.000	62.44	-11.56	74.00	50.46	36.07	12.41	36.50	Peak	---	---
2	7311.000	50.09	-3.91	54.00	38.11	36.07	12.41	36.50	Average	112	295

For 7.311GHz ~ 25GHz

Frequency from 7311MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

Frequency ( MHz )	Antenna Polarity	Cable Factor ( dB/m )	Reading Loss ( dB )	Reading ( dBuV )	Limits ( dBuV/m )	Emission ( dBuV/m )	Level ( uV/m )	Margin ( dB )	Detect Mode
2438.000	V	28.30	7.03	79.50	-	114.83	551442.20	-	Peak
2438.000	V	28.30	7.03	70.63	-	105.96	198609.49	-	AV
2438.000	H	28.30	7.03	71.53	-	106.86	220292.65	-	Peak
2438.000	H	28.30	7.03	62.80	-	98.13	80630.62	-	AV
4874.000	V	33.17	9.09	23.09	74.00	65.35	1851.40	-8.65	Peak
4874.000	V	33.17	9.09	2.30	54.00	44.56	169.04	-9.44	AV
7311.000	V	36.07	12.41	13.30	74.00	61.78	1227.44	-12.22	Peak
7311.000	V	36.07	12.41	2.10	54.00	50.58	338.06	-3.42	AV
4874.000	H	33.17	9.09	13.66	74.00	55.92	625.17	-18.08	Peak
4874.000	H	33.17	9.09	2.30	54.00	44.56	169.04	-9.44	AV
7311.000	H	36.07	12.41	13.96	74.00	62.44	1324.34	-11.56	Peak
7311.000	H	36.07	12.41	1.61	54.00	50.09	319.52	-3.91	AV
9648.000	V/H	-	-	-	-	-	-	-	AV/Peak
12060.000	V/H	-	-	-	-	-	-	-	AV/Peak
14472.000	V/H	-	-	-	-	-	-	-	AV/Peak
16884.000	V/H	-	-	-	-	-	-	-	AV/Peak
19296.000	V/H	-	-	-	-	-	-	-	AV/Peak
21708.000	V/H	-	-	-	-	-	-	-	AV/Peak
24120.000	V/H	-	-	-	-	-	-	-	AV/Peak

Remark:

1. The emission emitted by the EUT is too low to be measured except the emission listed above,
2. Reading = Reading on SA-Preamp Factor

Test Engineer :

*Jones Tsai*

Jones Tsai

7.4.3 Test Mode: Mode 3

- Test Distance : 3 m
- Temperature : 22.5°C
- Relative Humidity :56 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading : Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

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

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m BIC-9124--301 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	46.150	33.61	-6.39	40.00	50.94	10.47	0.21	28.01	Peak	100	360
2	47.850	33.50	-6.50	40.00	50.95	10.26	0.29	28.00	Peak	100	360
3	133.190	28.50	-15.00	43.50	44.18	11.49	0.66	27.83	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m LOG-9111-221 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	400.000	29.97	-16.03	46.00	40.80	15.79	1.18	27.80	Peak	100	360
2	528.000	30.55	-15.45	46.00	40.30	17.59	1.39	28.73	Peak	100	360
3	800.000	32.63	-13.37	46.00	39.44	20.38	1.61	28.80	Peak	100	360

**FCC TEST REPORT**

**Report No. : F411614**

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m BIC-9124--301 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	46.150	36.98	-3.02	40.00	54.31	10.47	0.21	28.01	QP	100	360
2	133.020	32.18	-11.32	43.50	47.87	11.48	0.66	27.83	Peak	100	360
3	176.710	33.97	-9.53	43.50	47.57	13.46	0.69	27.75	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m LOG-9111-221 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	400.000	33.76	-12.24	46.00	44.59	15.79	1.18	27.80	Peak	100	360
2	528.000	32.73	-13.27	46.00	42.48	17.59	1.39	28.73	Peak	100	360
3	800.000	31.65	-14.35	46.00	38.46	20.38	1.61	28.80	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	2390.000	56.02	-17.98	74.00	57.09	28.20	6.97	36.24	Peak	---	---
2	2390.000	42.61	-11.39	54.00	43.68	28.20	6.97	36.24	Average	---	---
3	X 2462.000	103.78	49.78	54.00	104.59	28.35	7.06	36.22	Average	112	257
4	X 2462.000	112.37	38.37	74.00	113.18	28.35	7.06	36.22	Peak	---	---
5	2483.500	66.19	-7.81	74.00	66.86	28.39	7.16	36.22	Peak	---	---
6	2483.500	47.12	-6.88	54.00	47.79	28.39	7.16	36.22	Average	---	---

**FCC TEST REPORT**

**Report No. : F411614**

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4924.000	55.36	-18.64	74.00	49.16	33.27	9.12	36.19	Peak	---	---
2	4924.000	44.90	-9.10	54.00	38.70	33.27	9.12	36.19	Average	112	257

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	7311.000	61.36	-12.64	74.00	49.38	36.07	12.41	36.50	Peak	---	---
2	7311.000	50.32	-3.68	54.00	38.34	36.07	12.41	36.50	Average	112	257

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	2390.000	56.38	-17.62	74.00	57.45	28.20	6.97	36.24	Peak	---	---
2	2390.000	44.87	-9.13	54.00	45.94	28.20	6.97	36.24	Average	---	---
3	X 2462.000	107.38	33.38	74.00	108.19	28.35	7.06	36.22	Peak	---	---
4	X 2462.000	95.68	41.68	54.00	96.49	28.35	7.06	36.22	Average	112	232
5	2483.500	61.01	-12.99	74.00	61.68	28.39	7.16	36.22	Peak	---	---
6	2483.500	44.92	-9.08	54.00	45.59	28.39	7.16	36.22	Average	---	---

**FCC TEST REPORT**

**Report No. : F411614**

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4924.000	55.27	-18.73	74.00	49.07	33.27	9.12	36.19	Peak	---	---
2	4924.000	45.70	-8.30	54.00	39.50	33.27	9.12	36.19	Average	112	232

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11b Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	7386.000	62.42	-11.58	74.00	50.24	36.25	12.47	36.54	Peak	---	---
2	7386.000	49.68	-4.32	54.00	37.50	36.25	12.47	36.54	Average	112	232

For 7.386GHz ~ 25GHz

Frequency from 7386MHz to 25000MHz, the emission emitted by the EUT is too low to be measured



■ Field strength of fundamental and harmonics

Frequency ( MHz )	Antenna Polarity	Cable Factor	Reading Loss	Limits	Emission	Level	Margin	Detect	
( dBuV )	( dB/m )	( dB )	( dBuV )	( dBuV/m )	( dBuV/m )	( uV/m )	( dB )	Mode	
2462.000	V	28.35	7.06	76.96	-	112.37	415432.05	-	Peak
2462.000	V	28.35	7.06	68.37	-	103.78	154525.44	-	AV
2462.000	H	28.35	7.06	71.97	-	107.38	233883.72	-	Peak
2462.000	H	28.35	7.06	60.27	-	95.68	60813.50	-	AV
4924.000	V	33.27	9.12	12.97	74.00	55.36	586.14	-18.64	Peak
4924.000	V	33.27	9.12	2.51	54.00	44.90	175.79	-9.10	AV
7311.000	V	36.07	12.41	12.88	74.00	61.36	1169.50	-12.64	Peak
7311.000	V	36.07	12.41	1.84	54.00	50.32	328.10	-3.68	AV
4924.000	H	33.27	9.12	12.88	74.00	55.27	580.10	-18.73	Peak
4924.000	H	33.27	9.12	3.31	54.00	45.70	192.75	-8.30	AV
7386.000	H	36.07	12.41	13.94	74.00	62.42	1321.30	-11.58	Peak
7386.000	H	36.07	12.41	1.20	54.00	49.68	304.79	-4.32	AV
9648.000	V/H	-	-	-	-	-	-	-	AV/Peak
12060.000	V/H	-	-	-	-	-	-	-	AV/Peak
14472.000	V/H	-	-	-	-	-	-	-	AV/Peak
16884.000	V/H	-	-	-	-	-	-	-	AV/Peak
19296.000	V/H	-	-	-	-	-	-	-	AV/Peak
21708.000	V/H	-	-	-	-	-	-	-	AV/Peak
24120.000	V/H	-	-	-	-	-	-	-	AV/Peak

Remark:

1. The emission emitted by the EUT is too low to be measured except the emission listed above,
2. Reading = Reading on SA-Preamp Factor

Test Engineer : Jones Tsai  
 Jones Tsai

7.4.4 Test Mode: Mode 4

- Test Distance : 3 m
- Temperature : 22.5°C
- Relative Humidity :56 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading : Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

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

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m BIC-9124--301 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXXX/MiniPCI 11G Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1 !	41.900	35.76	-4.24	40.00	52.64	10.90	0.24	28.02	Peak	100	360
2	46.150	26.15	-13.85	40.00	43.48	10.47	0.21	28.01	QP	100	360
3 !	48.190	34.10	-5.90	40.00	51.57	10.24	0.29	28.00	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m LOG-9111-221 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXXX/MiniPCI 11g Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	282.400	28.86	-17.14	46.00	42.32	12.90	1.01	27.37	Peak	100	360
2	396.800	38.33	-7.67	46.00	49.18	15.73	1.20	27.78	Peak	210	360
3	480.000	25.44	-20.56	46.00	35.55	17.08	1.33	28.52	Peak	100	360

**FCC TEST REPORT**

**Report No. : F411614**

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m BIC-9124--301 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11G Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1 !	48.020	35.37	-4.63	40.00	52.83	10.25	0.29	28.00	Peak	100	360
2 !	84.230	37.28	-2.72	40.00	55.12	9.70	0.39	27.93	Peak	100	360
3	84.230	31.44	-8.56	40.00	49.28	9.70	0.39	27.93	QP	100	360
4 !	198.980	40.19	-3.31	43.50	52.13	14.78	0.98	27.70	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m LOG-9111-221 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1 !	200.100	40.36	-3.14	43.50	51.64	15.39	1.03	27.70	Peak	100	360
2	282.400	36.83	-9.17	46.00	50.29	12.90	1.01	27.37	Peak	100	360
3	359.200	37.83	-8.17	46.00	49.11	15.23	1.09	27.60	Peak	100	360
4	400.000	37.13	-8.87	46.00	47.96	15.79	1.18	27.80	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g TX Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1830.000	45.70	-28.30	74.00	53.62	26.72	6.17	40.81	Peak	---	---
2 !	2390.000	70.04	-3.96	74.00	76.01	28.20	6.97	41.14	Peak	---	---
3	2390.000	47.07	-6.93	54.00	53.04	28.20	6.97	41.14	Average	---	---
4 X	2412.000	105.10	31.10	74.00	111.01	28.24	7.00	41.15	Peak	---	---
5 X	2412.000	97.85	43.85	54.00	103.76	28.24	7.00	41.15	Average	---	---
6	2483.500	60.84	-13.16	74.00	66.49	28.39	7.16	41.20	Peak	---	---
7	2483.500	47.72	-6.28	54.00	53.37	28.39	7.16	41.20	Average	---	---

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g TX Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	2390.000	65.60	-8.40	74.00	71.57	28.20	6.97	41.14	Peak	---	---
2	2390.000	47.48	-6.52	54.00	53.45	28.20	6.97	41.14	Average	---	---
3 X	2412.000	96.80	22.80	74.00	102.71	28.24	7.00	41.15	Peak	---	---
4 X	2412.000	88.73	34.73	54.00	94.64	28.24	7.00	41.15	Average	---	---
5	2483.500	63.93	-10.07	74.00	69.58	28.39	7.16	41.20	Peak	---	---
6 !	2483.500	48.47	-5.53	54.00	54.12	28.39	7.16	41.20	Average	---	---

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g Ch01 2412MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	3942.000	61.65	-12.35	74.00	61.37	32.48	9.28	41.48	Peak	112	152
2 !	3942.000	51.58	-2.42	54.00	51.30	32.48	9.28	41.48	Average	112	152

For 3.942GHz ~ 25GHz

Frequency from 3942MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

Frequency ( MHz )	Antenna Polarity	Cable Factor ( dB/m )	Cable Loss ( dB )	Reading ( dBuV )	Limits ( dBuV/m )	Emission ( dBuV/m )	Level ( uV/m )	Margin ( dB )	Detect Mode
2412.000	V	28.24	7.00	69.86	-	105.10	179887.09	-	Peak
2412.000	V	28.24	7.00	62.61	-	97.85	78072.84	-	AV
2412.000	H	28.24	7.00	61.56	-	96.80	69183.10	-	Peak
2412.000	H	28.24	7.00	53.49	-	88.73	27321.21	-	AV
3942.000	H	32.48	9.28	19.89	74.00	61.65	1209.21	-12.35	Peak
3942.000	H	32.48	9.28	9.82	54.00	51.58	379.31	-2.42	AV
4821.000	V/H	-	-	-	-	-	-	-	AV/Peak
7236.000	V/H	-	-	-	-	-	-	-	AV/Peak
9648.000	V/H	-	-	-	-	-	-	-	AV/Peak
12060.000	V/H	-	-	-	-	-	-	-	AV/Peak
14472.000	V/H	-	-	-	-	-	-	-	AV/Peak
16884.000	V/H	-	-	-	-	-	-	-	AV/Peak
19296.000	V/H	-	-	-	-	-	-	-	AV/Peak
21708.000	V/H	-	-	-	-	-	-	-	AV/Peak
24120.000	V/H	-	-	-	-	-	-	-	AV/Peak

Remark:

1. The emission emitted by the EUT is too low to be measured except the emission listed above,
2. Reading = Reading on SA-Preamp Factor

Test Engineer : *Jones Tsai*  
 Jones Tsai

7.4.5 Test Mode: Mode 5

- Test Distance : 3 m
- Temperature : 22.5°C
- Relative Humidity :56 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading : Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

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

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m BIC-9124--301 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11G Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1 !	42.070	34.89	-5.11	40.00	51.78	10.88	0.25	28.02	Peak	100	360
2 !	46.150	36.19	-3.81	40.00	53.52	10.47	0.21	28.01	Peak	100	360
3 !	47.680	34.23	-5.77	40.00	51.67	10.27	0.29	28.00	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m LOG-9111-221 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	282.400	31.29	-14.71	46.00	44.75	12.90	1.01	27.37	Peak	100	360
2	400.000	39.93	-6.07	46.00	50.76	15.79	1.18	27.80	Peak	100	360
3	528.000	32.99	-13.01	46.00	42.74	17.59	1.39	28.73	Peak	100	360

**FCC TEST REPORT**

**Report No. : F411614**

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m BIC-9124--301 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11G Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	48.020	31.37	-8.63	40.00	48.83	10.25	0.29	28.00	Peak	100	360
2	84.230	33.66	-6.34	40.00	51.50	9.70	0.39	27.93	Peak	100	360
3 !	166.510	39.31	-4.19	43.50	53.30	13.06	0.72	27.77	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m LOG-9111-221 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1 !	200.100	39.13	-4.37	43.50	50.41	15.39	1.03	27.70	Peak	100	360
2	359.200	37.32	-8.68	46.00	48.60	15.23	1.09	27.60	Peak	100	360
3	396.800	36.36	-9.64	46.00	47.21	15.73	1.20	27.78	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g TX Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	2390.000	65.79	-8.21	74.00	71.76	28.20	6.97	41.14	Peak	---	---
2	2390.000	47.40	-6.60	54.00	53.37	28.20	6.97	41.14	Average	---	---
3 X	2444.230	95.78	41.78	54.00	101.60	28.31	7.04	41.17	Average	---	---
4 X	2444.230	104.97	30.97	74.00	110.79	28.31	7.04	41.17	Peak	---	---
5	2483.500	67.81	-6.19	74.00	73.46	28.39	7.16	41.20	Peak	---	---
6 !	2483.500	48.81	-5.19	54.00	54.46	28.39	7.16	41.20	Average	---	---

**FCC TEST REPORT**

**Report No. : F411614**

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4874.000	43.21	-30.79	74.00	43.39	33.17	9.09	42.44	Peak	---	---

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	7311.000	49.55	-24.45	74.00	37.57	36.07	12.41	36.50	Peak	---	---
2	7311.000	42.55	-11.45	54.00	30.57	36.07	12.41	36.50	Average	112	256

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g TX Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1830.000	49.27	-24.73	74.00	57.19	26.72	6.17	40.81	Peak	---	---
2	2390.000	47.70	-6.30	54.00	53.67	28.20	6.97	41.14	Average	---	---
3	2390.000	60.98	-13.02	74.00	66.95	28.20	6.97	41.14	Peak	---	---
4 X	2444.230	95.75	21.75	74.00	101.57	28.31	7.04	41.17	Peak	---	---
5 X	2444.230	88.42	34.42	54.00	94.24	28.31	7.04	41.17	Average	---	---
6	2483.500	66.07	-7.93	74.00	71.72	28.39	7.16	41.20	Peak	---	---
7	2483.500	47.74	-6.26	54.00	53.39	28.39	7.16	41.20	Average	---	---



Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4874.000	36.92	-17.08	54.00	35.65	33.17	10.54	42.44	Average	---	---
2	4874.000	51.70	-22.30	74.00	50.43	33.17	10.54	42.44	Peak	---	---

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g Ch06 2437MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	7311.000	49.38	-24.62	74.00	43.51	36.07	12.41	42.61	Peak	---	---
2	7311.000	36.39	-17.61	54.00	30.52	36.07	12.41	42.61	Average	112	259

For 7.311GHz ~ 25GHz

Frequency from 7311MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

Frequency ( MHz )	Antenna Polarity	Cable Factor ( dB/m )	Loss ( dB )	Reading ( dBuV )	Limits ( dBuV/m )	Emission ( dBuV/m )	Level ( uV/m )	Margin ( dB )	Detect Mode
2444.000	V	28.31	7.04	69.62	-	104.97	177214.80	-	Peak
2444.000	V	28.31	7.04	60.43	-	95.78	61517.69	-	AV
2444.000	H	28.31	7.04	60.40	-	95.75	61305.58	-	Peak
2444.000	H	28.31	7.04	53.07	-	88.42	26363.31	-	AV
4874.000	V	33.17	9.09	0.95	74.00	43.21	144.71	-30.79	Peak
7311.000	V	36.07	12.41	1.07	74.00	49.55	300.26	-24.45	Peak
7311.000	V	36.07	12.41	-5.93	54.00	42.55	134.12	-11.45	AV
4874.000	H	33.17	10.54	7.99	74.00	51.70	384.59	-22.30	Peak
4874.000	H	33.17	10.54	-6.79	54.00	36.92	70.15	-17.08	AV
7311.000	H	36.07	12.41	0.90	74.00	49.38	294.44	-24.62	Peak
7311.000	H	36.07	12.41	-12.09	54.00	36.39	65.99	-17.61	AV
9648.000	V/H	-	-	-	-	-	-	-	AV/Peak
12060.000	V/H	-	-	-	-	-	-	-	AV/Peak
14472.000	V/H	-	-	-	-	-	-	-	AV/Peak
16884.000	V/H	-	-	-	-	-	-	-	AV/Peak
19296.000	V/H	-	-	-	-	-	-	-	AV/Peak
21708.000	V/H	-	-	-	-	-	-	-	AV/Peak
24120.000	V/H	-	-	-	-	-	-	-	AV/Peak

Remark:

1. The emission emitted by the EUT is too low to be measured except the emission listed above,
2. Reading = Reading on SA-Preamp Factor

Test Engineer : Jones Tsai  
 Jones Tsai

7.4.6 Test Mode: Mode 6

- Test Distance : 3 m
- Temperature : 22.5°C
- Relative Humidity :56 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading : Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

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

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m BIC-9124--301 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11G Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	47.850	33.52	-6.48	40.00	50.97	10.26	0.29	28.00	Peak	100	360
2	84.230	31.84	-8.16	40.00	49.68	9.70	0.39	27.93	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m LOG-9111-221 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	400.000	33.73	-12.27	46.00	44.56	15.79	1.18	27.80	Peak	100	360
2	528.000	32.73	-13.27	46.00	42.48	17.59	1.39	28.73	Peak	100	360
3	662.400	32.09	-13.91	46.00	40.18	19.04	1.61	28.74	Peak	100	360

**FCC TEST REPORT**

**Report No. : F411614**

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m BIC-9124--301 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11G Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	48.020	31.80	-8.20	40.00	49.26	10.25	0.29	28.00	Peak	100	360
2	84.230	32.72	-7.28	40.00	50.56	9.70	0.39	27.93	Peak	100	360
3 !	165.660	38.96	-4.54	43.50	53.01	13.01	0.71	27.77	Peak	100	360
4 !	198.300	37.88	-5.62	43.50	50.04	14.76	0.78	27.70	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m LOG-9111-221 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1 !	200.100	39.63	-3.87	43.50	50.91	15.39	1.03	27.70	Peak	100	360
2	359.200	37.59	-8.41	46.00	48.87	15.23	1.09	27.60	Peak	100	360
3	400.000	36.92	-9.08	46.00	47.75	15.79	1.18	27.80	Peak	100	360

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g TX Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	2390.000	66.02	-7.98	74.00	71.99	28.20	6.97	41.14	Peak	---	---
2	2390.000	47.65	-6.35	54.00	53.62	28.20	6.97	41.14	Average	---	---
3 X	2464.720	106.38	32.38	74.00	112.16	28.35	7.06	41.19	Peak	100	321
4 X	2464.720	98.85	44.85	54.00	104.63	28.35	7.06	41.19	Average	100	321
5 !	2483.500	71.64	-2.36	74.00	77.29	28.39	7.16	41.20	Peak	100	321
6	2483.500	47.84	-6.16	54.00	53.49	28.39	7.16	41.20	Average	100	321

**FCC TEST REPORT**

**Report No. : F411614**

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4924.000	56.06	-17.94	74.00	49.86	33.27	9.12	36.19	Peak	---	---
2	4924.000	44.62	-9.38	54.00	38.42	33.27	9.12	36.19	Average	112	251

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	7386.000	63.07	-10.93	74.00	50.89	36.25	12.47	36.54	Peak	---	---
2	7386.000	50.60	-3.40	54.00	38.42	36.25	12.47	36.54	Average	112	255

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g TX Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	2390.000	58.13	-15.87	74.00	64.10	28.20	6.97	41.14	Peak	---	---
2	2390.000	47.45	-6.55	54.00	53.42	28.20	6.97	41.14	Average	---	---
3	X 2466.670	97.34	23.34	74.00	103.12	28.35	7.06	41.19	Peak	---	---
4	X 2466.670	91.26	37.26	54.00	97.04	28.35	7.06	41.19	Average	---	---
5	! 2483.500	69.38	-4.62	74.00	75.03	28.39	7.16	41.20	Peak	---	---
6	! 2483.500	48.09	-5.91	54.00	53.74	28.39	7.16	41.20	Average	---	---

**FCC TEST REPORT**

**Report No. : F411614**

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4924.000	56.06	-17.94	74.00	49.86	33.27	9.12	36.19	Peak	---	---
2	4924.000	45.24	-8.76	54.00	39.04	33.27	9.12	36.19	Average	112	295

Site : 03CH03-HY  
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL  
 EUT : TeamPed7500w  
 Power : 110 V /60Hz  
 Memo : FHT68XXXX/MiniPCI 11g Ch11 2462MHz

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	7386.000	62.41	-11.59	74.00	50.23	36.25	12.47	36.54	Peak	---	---
2	7386.000	50.68	-3.32	54.00	38.50	36.25	12.47	36.54	Average	112	259

For 7.386GHz ~ 25GHz

Frequency from 7386MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

Frequency ( MHz )	Polarity	Antenna Factor ( dB/m )	Cable Loss ( dB )	Reading ( dBuV )	Limits ( dBuV/m )	Emission ( dBuV/m )	Level ( uV/m )	Margin ( dB )	Detect Mode
2464.000	V	28.35	7.06	70.97	-	106.38	208449.09	-	Peak
2464.000	V	28.35	7.06	63.44	-	98.85	87599.17	-	AV
2466.000	H	28.35	7.06	61.93	-	97.34	73620.71	-	Peak
2466.000	H	28.35	7.06	55.85	-	91.26	36559.48	-	AV
4924.000	V	33.27	9.12	13.67	74.00	56.06	635.33	-17.94	Peak
4924.000	V	33.27	9.12	2.23	54.00	44.62	170.22	-9.38	AV
7386.000	V	36.25	12.47	14.35	74.00	63.07	1423.97	-10.93	Peak
7386.000	V	36.25	12.47	1.88	54.00	50.60	338.84	-3.40	AV
4924.000	H	33.27	9.12	13.67	74.00	56.06	635.33	-17.94	Peak
4924.000	H	33.27	9.12	2.85	54.00	45.24	182.81	-8.76	AV
7386.000	H	36.25	12.47	13.69	74.00	62.41	1319.78	-11.59	Peak
7386.000	H	36.25	12.47	1.96	54.00	50.68	341.98	-3.32	AV
9648.000	V/H	-	-	-	-	-	-	-	AV/Peak
12060.000	V/H	-	-	-	-	-	-	-	AV/Peak
14472.000	V/H	-	-	-	-	-	-	-	AV/Peak
16884.000	V/H	-	-	-	-	-	-	-	AV/Peak
19296.000	V/H	-	-	-	-	-	-	-	AV/Peak
21708.000	V/H	-	-	-	-	-	-	-	AV/Peak
24120.000	V/H	-	-	-	-	-	-	-	AV/Peak

Remark:

1. The emission emitted by the EUT is too low to be measured except the emission listed above,
2. Reading = Reading on SA-Preamp Factor

Test Engineer : Jones Tsai  
 Jones Tsai

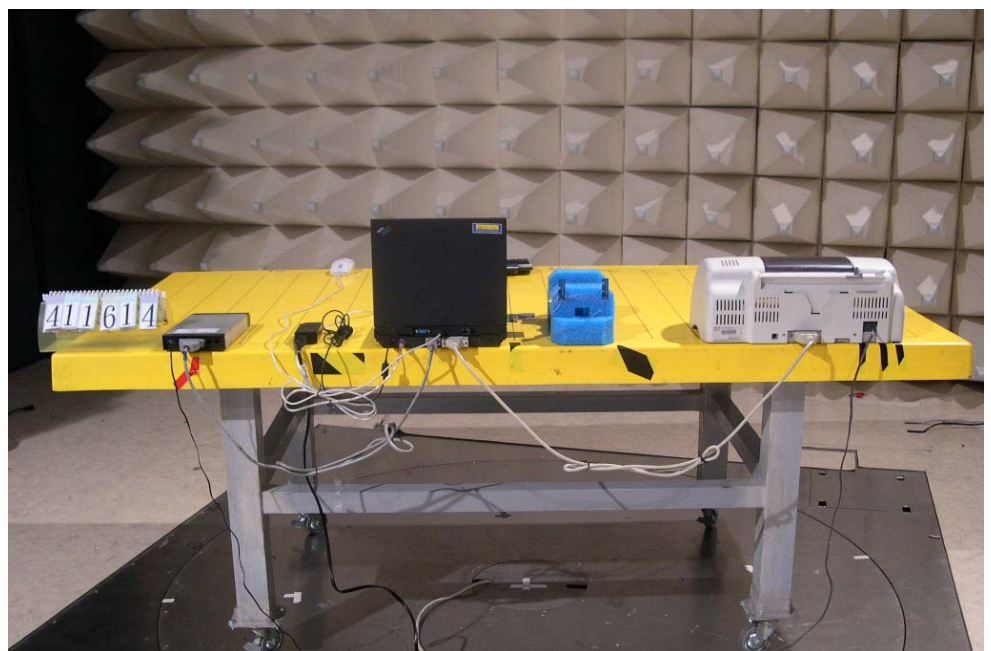
**7.5. Photographs of Radiated Emission Test Configuration**

- The photographs show the configuration that generates the maximum emission.

FRONT VIEW



REAR VIEW





## **8. Antenna Requirements**

The EUT use an embedded PCB antenna with I-PEX connector. It is considered to meet antenna requirement of FCC.

### **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.

### **8.2. Antenna Connected Construction**

The antenna used in this product is embedded PCB antenna with I-PEX connector.

## 9. RF Exposure

FCC Rules and Regulations Part 1.1307,1.1310,2.1091,2.1093:

RF Exposure Compliance

### 9.1. Limit For Maximum Permissible Exposure (MPE)

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S ( minutes )
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

F=frequency in MHz

\*Plane-wave equivalent power density

**9.2. MPE Calculations**

Power Density =Pd (mW/cm<sup>2</sup>) = EIRP/4 π d<sup>2</sup>

EIRP = P · G

P=Peak output power (mW)

G=Antenna numeric gain (numeric)

d=Separation distance (cm)

Because the EUT belongs to General Population/ Uncontrolled Exposure, the limit of power density is 1.0 mW/cm<sup>2</sup>.

Channel NO.	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated RF Exposure at d=20cm (mW/cm <sup>2</sup> )	Calculated RF Exposure at d=2.5cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
Channel 01	1.0	1.26	11.6	15.13	0.0038	0.24	1.0
Channel 06	1.3	1.35	12.0	15.80	0.0043	0.27	1.0
Channel 11	1.5	1.41	12.0	15.80	0.0044	0.29	1.0

**9.3. FCC Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 2.5cm during normal operation.

## 10. List of Measuring Equipments Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100132	9 KHz – 2.75 GHz	Jun. 12, 2003	Conduction (CO01-HY)
LISN	MessTec	NNB-2/16Z	2001-008	9 KHz – 30 MHz	Apr. 30, 2003	Conduction (CO01-HY)
LISN (Support Unit)	MessTec	NNB-2/16Z	2001-009	9 KHz – 30 MHz	Apr. 30, 2003	Conduction (CO01-HY)
EMI Filter	LINDGREN	LRE-2060	1004	< 450 Hz	N/A	Conduction (CO01-HY)
EMI Filter	LINDGREN	N6006	201052	0 ~ 60 Hz	N/A	Conduction (CO01-HY)
RF Cable-CON	Suhner Switzerland	RG223/U	CB029	9KHz~30MHz	Dec. 24, 2003	Conduction (CO01-HY)
50 ohm BNC type Terminal	NOBLE	50ohm	TM013	50 ohm	Apr. 24, 2003	Conduction (CO01-HY)

※ Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	Jun. 21, 2003	Radiation (03CH03-HY)
Spectrum analyzer	R&S	FSP40	100004	9KHZ~40GHz	Aug. 23, 2003	Radiation (03CH03-HY)
Amplifier	HP	8447D	2944A09072	100KHz – 1.3GHz	Nov. 05, 2003	Radiation (03CH03-HY)
Biconical Antenna	SCHWARZBECK	VHBB 9124	301	30MHz –200MHz	Jul. 24, 2003	Radiation (03CH03-HY)
Log Antenna	SCHWARZBECK	VUSLP 9111	221	200MHz -1GHz	Jul. 24, 2003	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz~1GHz	Dec. 03, 2003	Radiation (03CH03-HY)
Amplifier	MITEQ	AFS44	879981	100MHz~26.5GHz	Jul. 23, 2003	Radiation (03CH03-HY)
Horn Antenna	COM-POWER	3115	6741	1GHz – 18GHz	Apr. 08, 2003	Radiation (03CH03-HY)
Turn Table	HD	DS 420	420/650/00	0 ~ 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	Radiation (03CH03-HY)
Horn Antenna	Schwarzbeck	BBHA9170	154	15GHz~40GHz	Jun. 02, 2003	Radiation (03CH03-HY)
RF Cable-HIGH	Jye Bao	RG142	CB030-HIGH	1GHz~29.5GHz	Dec. 05, 2003	Radiation (03CH03-HY)

※ Calibration Interval of instruments listed above is one year, except for Horn Antenna, BBHA9170.

※ Calibration Interval of Horn Antenna, BBHA9170, is three years.

### 11. Uncertainty of Test Site

Uncertainty of Radiated Emission Measurement

Contribution	Probability Distribution	3m
Antenna factor calibration	normal(k=2)	±1
cable loss calibration	normal(k=2)	±0.3
RCV/SPA specification	rectangular	±2
Antenna Directivity	rectangular	±3
Antenna Factor V.S. Height	rectangular	±2
Antenna Factor Interpolation for Frequency	rectangular	±0.25
site imperfection	rectangular	±2
Mismatch Receiver VSWR $\Gamma_1=0.09$ Antenna VSWR $\Gamma_2=0.67$ Uncertainty= $20\log(1-\Gamma_1\Gamma_2)$	U-shaped	±0.54
combined standard uncertainty Ue(y)	normal	±2.7
Measuring uncertainty for a level of confidence of 95% U=2Ue(y)	normal (k=2)	±5.4

$U = \sqrt{\{(1/2)^2 + (0.3/2)^2 + (2^2 + 0.5^2 + 2^2 + 0.25^2 + 2^2)/3 + (0.54)^2/2\}} = 2.2$  for 10m test distance

$U = \sqrt{\{(1/2)^2 + (0.3/2)^2 + (2^2 + 3^2 + 2^2 + 0.25^2 + 2^2)/3 + (0.54)^2/2\}} = 2.7$  for 3m test distance

Uncertainty of Conducted Emission Measurement

Contribution	Probability Distribution	150KHz – 30MHz
Cable and I/P attenuator calibration	normal(k=2)	±0.3
RCV/SPA specification	rectangular	±2
LISN coupling specification	rectangular	±1.5
Transducer factor frequency interpolation	rectangular	±0.2
Mismatch Receiver VSWR $\Gamma_1=0.09$ LISN VSWR $\Gamma_2=0.33$ Uncertainty= $20\log(1-\Gamma_1\Gamma_2)$	U-shaped	0.2
combined standard uncertainty Ue(y)	normal	±1.66
Measuring uncertainty for a level of confidence of 95% U=2Ue(y)	normal (k=2)	±3.32

$U = \sqrt{\{(0.3/2)^2 + (2^2 + 1.5^2 + 0.2^2)/3 + (0.2)^2/2\}} = 1.66$