APPLICATION FOR CERTIFICATION

On Behalf of

Inventec Besta Co., Ltd

Electronic Dictionary

(Within Wireless LAN Module: WM-G-MR-05)

Model No.: Z1

Brand: NURIAN

FCC ID: U6OKA015Z1

Prepared for : Inventec Besta Co., Ltd
10 FL., No. 36, Lane 513, Rui Guang Road,
Nei Hu Dist., Taipei 114, Taiwan, R.O.C.

Prepared by : Audix Technology Corporation
EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou,
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File Number	:	EM960403
Report Number	:	EM-F960142
Date of Test	:	Mar. 21 ~ Apr. 04, 2007
Date of Report	:	Apr. 10, 2007

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TEST REPORT CERTIFICATION

Applicant	:	Inventec Besta Co., Ltd
Manufacturer	:	Sinobond Electronic Co., Ltd.
EUT Description	:	Electronic Dictionary
		(Within Wireless LAN Module: WM-G-MR-05)
		(A) MODEL NO. : Z1
		(B) SERIAL NO. : N/A
		(C) BRAND : NURIAN
		(D) POWER SUPPLY : (1)DC 5V (Via Power Supply) (2)DC 3.7V (Via Battery)
		(E) TEST VOLTAGE : AC 120V, 60Hz (Via Power Supply)

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, OCTOBER 2006
AND ANSI C63.4/2003

(FCC CFR 47 Part 15C, §15.205, §15.207, §15.209 and §15.247)

The device described above was tested by AUDIX TECHNOLOGY COPORATION to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C limits.

The measurement results are contained in this test report and AUDIX TECHNOLOGY COPORATION is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY COPORATION.

Date of Test: Mar. 21 ~ Apr. 04, 2007

Prepared by: Nita Lee Jul.26.2007
(Nita Lee/Assistant Administrator)

Test Engineer: Ben Cheng Jul. 26. 2007
(Ben Cheng/Section Manager)

Approved & Authorized Signer : Leon Liu Jul. 26 2007
(Leon Liu/Vice President)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Electronic Dictionary (Within Wireless LAN Module: WM-G-MR-05)
Model Number	:	Z1
FCC ID	:	U6OKA015Z1
Brand	:	NURIAN
Applicant	:	Inventec Besta Co., Ltd 10 FL., No. 36, Lane 513, Rui Guang Road, Nei Hu Dist., Taipei 114, Taiwan, R.O.C.
Manufacturer	:	Sinobond Electronic Co., Ltd. Wu Sha Cai Wu 6th Industrial Zone, Changan Town, Dongguan City, Guangdong Province, P.R.C.
Fundamental Range	:	2400MHz ~ 2483.5MHz (802.11b/g)
Channel Number	:	11 (802.11b/g)
Radio Technology	:	WLAN: 802.11b DSSS Modulation 802.11g OFDM Modulation

Data Rate	802.11b	1, 2, 5.5, 11 MB/Sec.
	802.11g	6, 9, 12, 18, 24, 36, 48, 54 MB/Sec.

Antenna Gain	:	-1.23dBi
Lithium Battery	:	TIAN YU, M/N KA015 3.7V/1900mAh
Wireless LAN Module	:	WM-G-MR-05
Power Supply (2Pin)	:	ENG, M/N: 3A-041WU05A Input: 100-240V~, 50-60Hz, 0.2A Output: DC 5V, 1A Cable: Non-Shielded, Undetachable, 1.8m Bonded a ferrite core
Date of Receipt of Sample	:	Mar. 19, 2007
Date of Test	:	Mar. 21 ~ Apr. 04, 2007

1.2.Tested Supporting System Details

1.2.1. POWER SOCKET

Model Number	:	N/A
Manufacturer	:	N/A
Power Cord	:	Non-Shielded, Undetachable, 1.2m

1.3.Description of Test Facility

Name of Firm **:** **Audix Technology Corporation**
EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou,
Taipei County, Taiwan, R.O.C.

Test Location & Facility (C2/Semi-AC) **:** **No. 2 Shielded Room**
No. 53-11, Tin-Fu Tsun, Lin-Kou,
Taipei County, Taiwan, R.O.C.
Semi-Anechoic Chamber
Federal Communication Commission
Registration Number: 90993
Filing on May 16, 2006
No. 53-11, Tin-Fu Tsun, Lin-Kou,
Taipei County, Taiwan, R.O.C.

NVLAP Lab. Code **:** 200077-0
(NVLAP is a NATA accredited body under Mutual Recognition Agreement)

1.4.Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±1.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	±2.91dB
	300MHz~1000MHz	±2.94dB
	Above 1GHz	± 5.02dB

Remark **:** Uncertainty = $ku_c(y)$

Test Item	Uncertainty
6dB Bandwidth	± 1kHz
Maximum peak Output power	± 0.52dBm
Emission Limitations	± 0.13dB
Band Edges	± 0.13dB
Power spectral Density	± 0.33dB

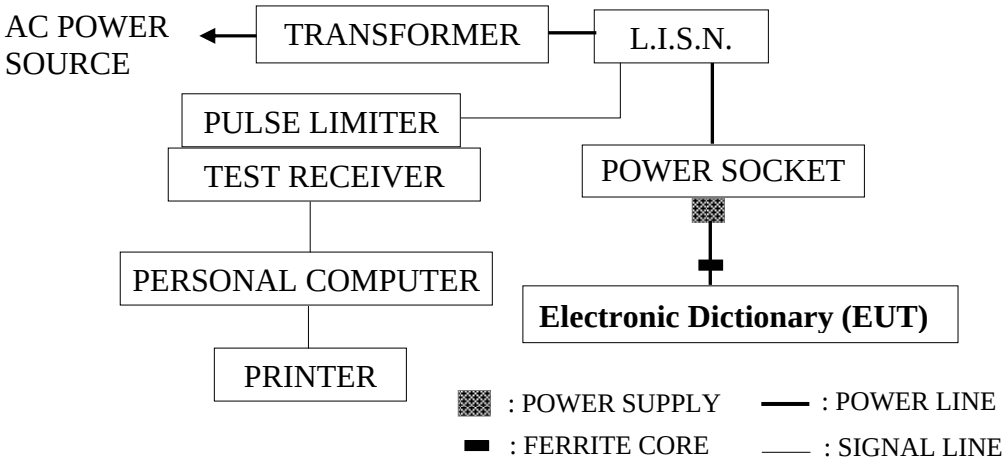
2. POWERLINE CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment were used during the power line conducted measurement**:** (No. 2 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	Rohde & Schwarz	ESCS 30	100265	Sep. 19, 06’	Sep. 18, 07’
2.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	Apr. 19, 06’	Apr. 18, 07’
3.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	001	Mar. 10, 07’	Mar. 09, 08’

2.2. Block Diagram of Test Setup



2.3.Conducted Emission Limits (§15.207)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

Remark1.: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.: The lower limit applies at the band edges.

2.4.Operating Condition of EUT

2.4.1.Setup the EUT and simulator as shown on 2.2.

2.4.2.Turn on the power of all equipment.

2.4.3. Run the test program "MyLab Tool", 802.11b data rate set at 1MB/sec. and 802.11g data rate set at 6MB/sec. during the testing.

2.5.Test Procedure

The EUT was put on table which was above the ground by 80cm and its power cord was connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.) Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions simulators of the interface cables should be manipulated according to FCC ANSI C63.4-2003 during conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was checked.

All the final readings from Test Receiver were measured with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.6.Conducted Emission Measurement Results

PASSED.
All emissions not reported below are too low against the prescribed limits.

EUT with following test modes was measured during the conducted emission measurement and selected the **worst test mode (Mode 2)** to read Q.P. value, all the test results are listed in next pages.

EUT：Electronic Dictionary M/N：Z1

Test Date：Mar. 21, 2007 Temperature：17℃ Humidity：63%

The details of test modes and reference test data are as follows：

No.	Frequency	Test Mode	Reference Test Data No.	
			Neutral	Line
1.	TX 2437MHz	WLAN (802.11b)	# 1	# 2
※2.	**TX 2437MHz**	**WLAN (802.11g)**	**# 8**	**# 7**

(※ worst test mode)

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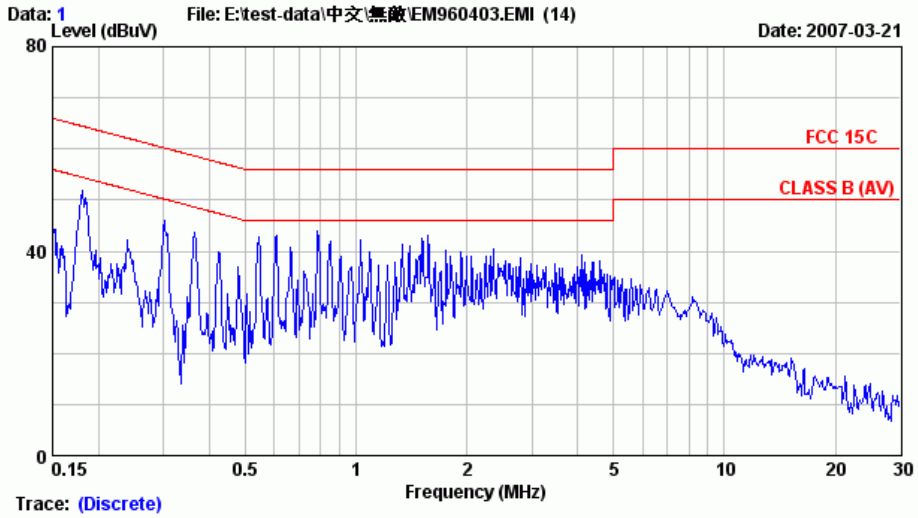

Trace: (Discrete)

Site	: No.2 Shielded room	Data	: 1
Condition	: KNW-407	Phase	: NEUTRAL
Limit	: FCC 15B-B		
Env. / Ins.	: 17*C,63% / ESCS 30	Engineer	: Ada Huang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2437(802.11b)		

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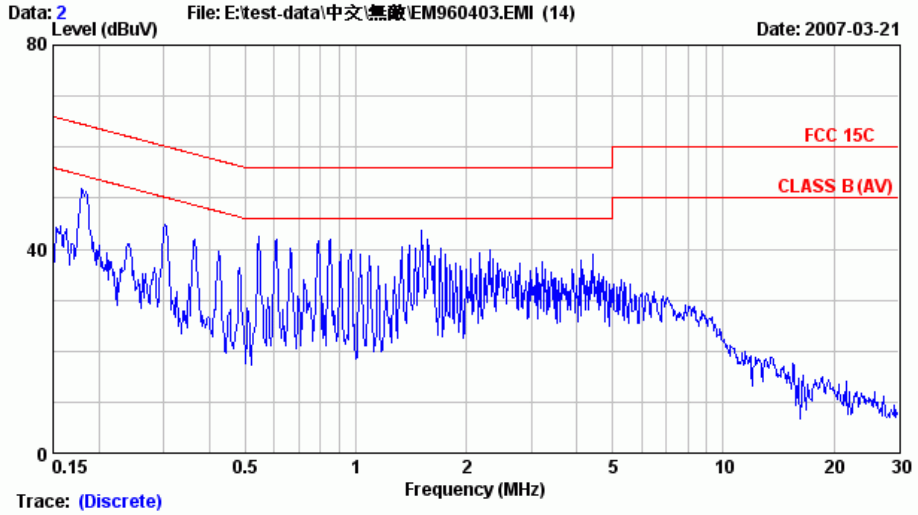

Trace: (Discrete)

Site	: No.2 Shielded room	Data	: 2
Condition	: KNW-407	Phase	: LINE
Limit	: FCC 15B-B		
Env. / Ins.	: 17*C,63% / ESCS 30	Engineer	: Ada Huang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2437(802.11b)		

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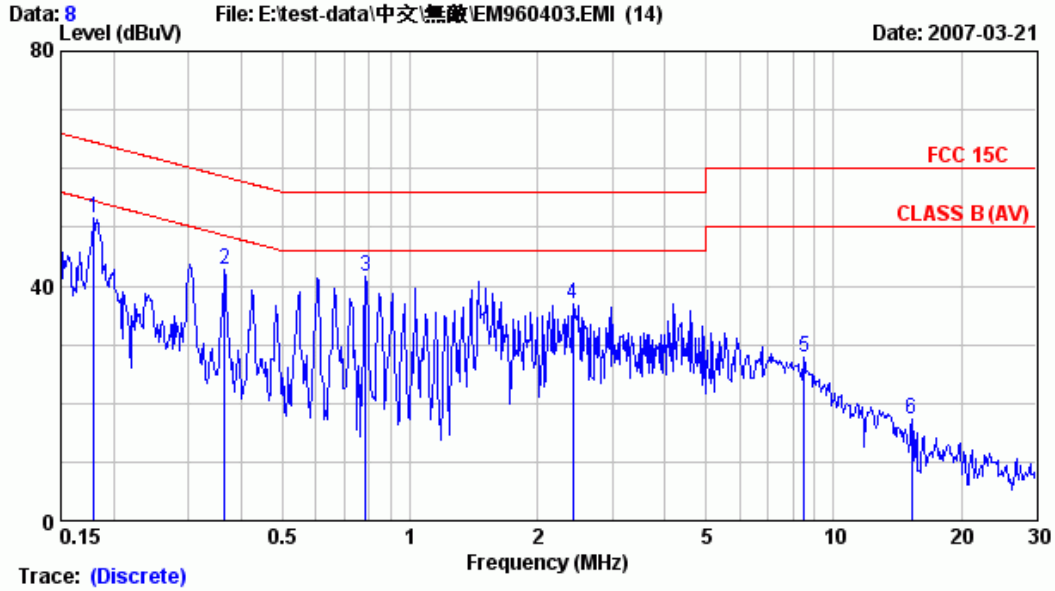

Site : No.2 Shielded room Data : 8
Condition : KNW-407 Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : 17*C,63% / ESCS 30 Engineer: Ada Huang
EUT : Electronic Dictionary M/N:Z1
Power Rating : 120Vac/60Hz
Test Mode : TX2437(802.11g)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Emission Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.180	0.24	0.25	51.03	51.52	64.50	12.99	QP
2	0.365	0.11	0.31	42.41	42.84	58.61	15.77	QP
3	0.788	0.10	0.38	41.02	41.50	56.00	14.50	QP
4	2.422	0.10	0.40	36.50	37.00	56.00	19.00	QP
5	8.501	0.10	0.65	27.05	27.80	60.00	32.20	QP
6	15.307	0.21	0.70	16.45	17.36	60.00	42.64	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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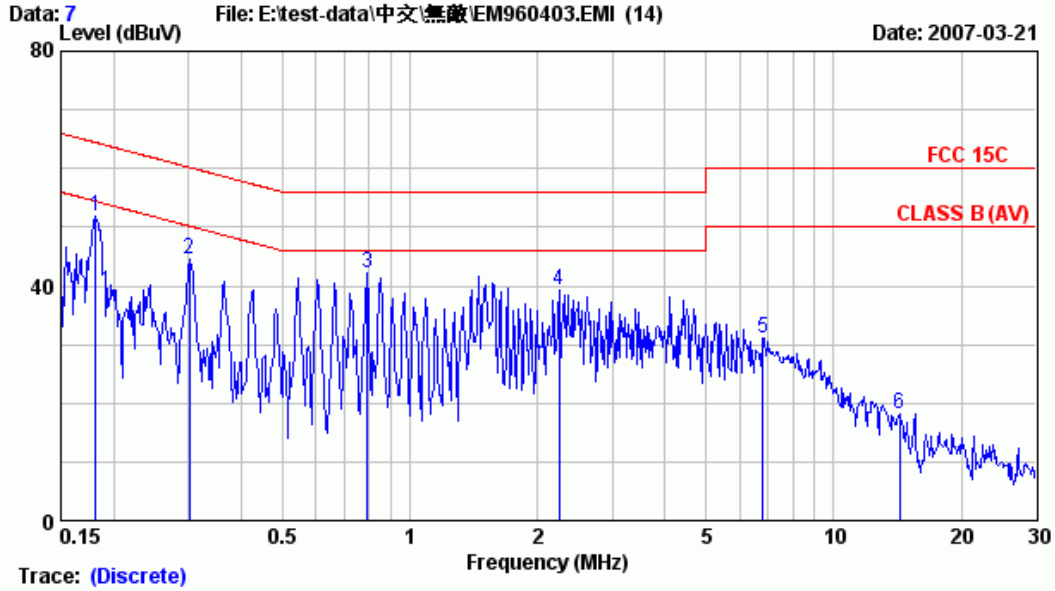


Site : No.2 Shielded room Data : 7
Condition : KNW-407 Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 17*C,63% / ESCS 30 Engineer: Ada Huang
EUT : Electronic Dictionary M/N:Z1
Power Rating : 120Vac/60Hz
Test Mode : TX2437(802.11g)

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.182	0.23	0.25	51.49	51.98	64.42	12.44	QP
2	0.302	0.14	0.30	44.03	44.47	60.19	15.72	QP
3	0.792	0.10	0.38	41.77	42.25	56.00	13.75	QP
4	2.249	0.10	0.40	38.82	39.32	56.00	16.68	QP
5	6.805	0.16	0.57	30.35	31.08	60.00	28.92	QP
6	14.288	0.20	0.70	17.24	18.14	60.00	41.86	QP

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

3.1.1. For Frequency Range 30MHz-1000MHz (Semi-Anechoic Chamber)

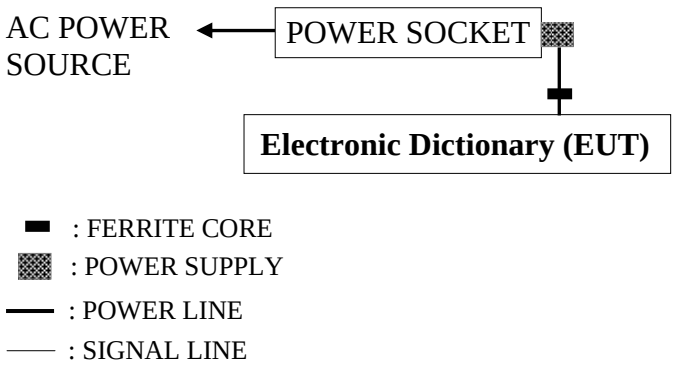
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Aug. 23, 06'	Aug. 22, 07'
2.	Test Receiver	R & S	ESCS30	100339	Mar. 22, 07'	Mar. 21, 08'
3.	Pre-Amplifier	HP	8447D	2944A06669	Jul. 26, 06'	Jul. 25, 07'
4.	Biconical Antenna	CHASE	VBA6106A	1264	Apr. 19, 06'	Apr. 18, 07'
5.	Log Periodic Antenna	Schwarzbeck	UHALP9108-A	0139	Apr. 19, 06'	Apr. 18, 07'

3.1.2. For Frequency Above 1GHz (Semi-Anechoic Chamber)

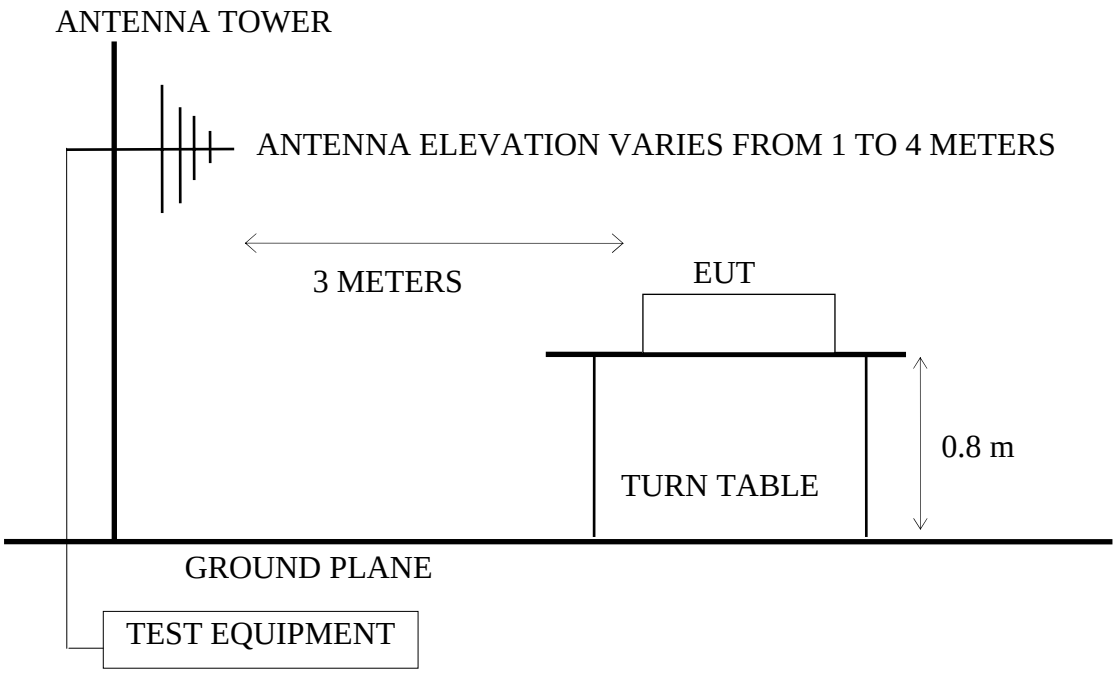
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Aug. 23, 06'	Aug. 22, 07'
2.	Pre-Amplifier	HP	8449B	3008A01284	Jun. 30, 06'	Jun. 29, 07'
3.	2.4G Notch Filter	EWT	EWT-14-0070	G2	Dec. 08, 06'	Dec. 07, 07'
4.	Horn Antenna	EMCO	3115	9112-3775	Jun. 01, 06'	May 31, 07'
5.	Horn Antenna	EMCO	3116	2653	Oct. 04, 04'	Oct. 03, 07'

3.2. Block Diagram of Test Setup

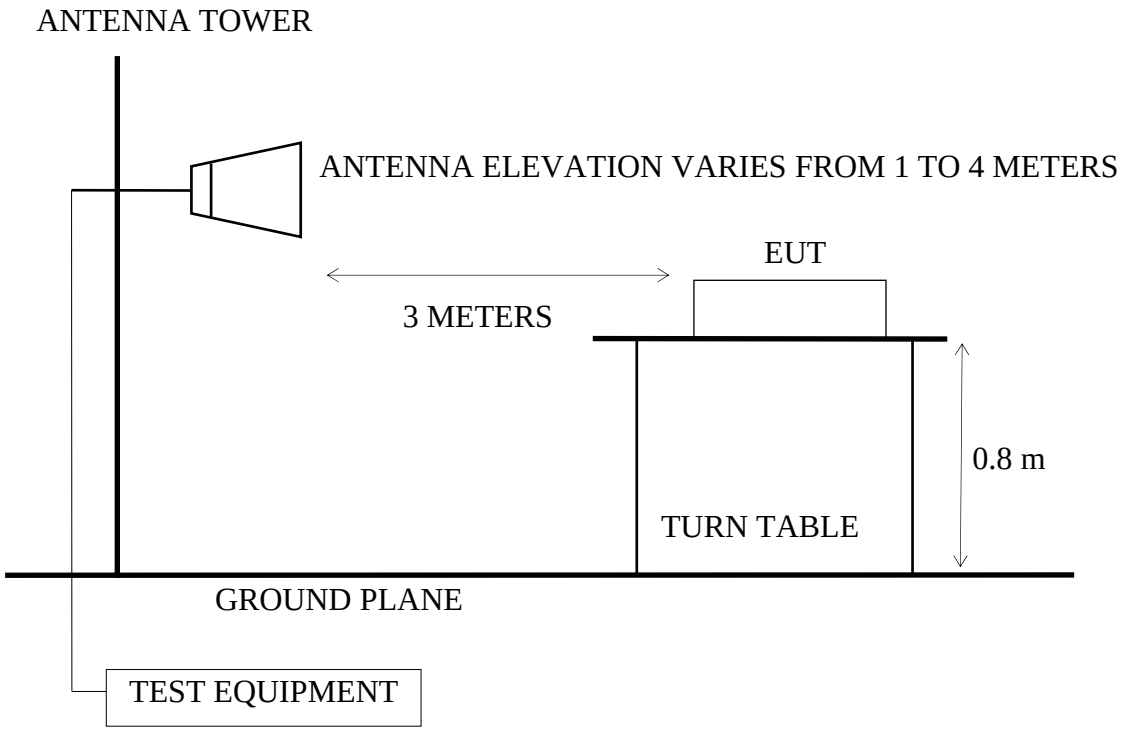
3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz



3.2.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz



3.3.Radiated Emission Limits (§15.209)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		μV/m	dBμV/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
Above 1000	3	74.0 dBμV/m (Peak) 54.0 dBμV/m (Average)	

Remark：(1) Emission level (dBμV/m) = 20 log Emission level (μV/m)
(2) The tighter limit applies at the edge between two frequency bands.
(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
(4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
(5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

3.4.Operating Condition of EUT

3.4.1.Setup the EUT and simulator as shown on 3.2.

3.4.2.Turn on the power of all equipment.

3.4.3. Run the test program “MyLab Tool”, 802.11b data rate set at 1MB/sec. and 802.11g data rate set at 6MB/sec. during the testing.

3.5.Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set to 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna was moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log-periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.
The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz. (For 30MHz to 1000MHz)
The resolution bandwidth and video bandwidth of test spectrum analyzer is 1MHz for peak detection (PK) at frequency above 1GHz.
The resolution bandwidth of test spectrum analyzer is 1MHz and the video bandwidth is 10Hz for average detection (AV) at frequency above 1GHz.
The frequency range from 30MHz to 25GHz (Up to 10^{th} harmonics from fundamental frequency) was checked.

3.6. Radiated Emission Measurement Results

PASSED. All the emissions not reported below are too low against the official limits.

EUT：Electronic Dictionary M/N：Z1

Test Date: Apr. 04, 2007 Temperature: 19 ℃ Humidity: 49 %

For Frequency Range 30MHz~1000MHz:

EUT with following test modes was performed during this section testing and all the test results are listed in section 3.6.1.

No.	Test Mode and Frequency			Reference Test Data No.	
				Horizontal	Vertical
1.	WLAN (802.11b)	Transmitting	2412MHz (CH1)	# 9	# 10
2.			2437MHz (CH6)	# 9	# 10
3.			2462MHz (CH11)	# 10	# 9
4.		Receiver	2437MHz (CH6)	# 10	# 9
5.	WLAN (802.11g)	Transmitting	2412MHz (CH1)	# 10	# 9
6.			2437MHz (CH6)	# 9	# 10
7.			2462MHz (CH11)	# 10	# 9
8.		Receiver	2437MHz (CH6)	# 9	# 10

* Above all final readings were measured with Quasi-Peak detector.

For Frequency above 1GHz:

Test Date: Apr. 04, 2007 Temperature: 19 ℃ Humidity: 49 %

EUT with following test modes was performed during this section testing and all the test results are listed in section 3.6.2.

No.	Test Mode and Frequency		
1.	WLAN (802.11b)	Transmitting	2412MHz (CH1)
2.			2437MHz (CH6)
3.			2462MHz (CH11)
4.		Receiver	2437MHz (CH6)
5.	WLAN (802.11g)	Transmitting	2412MHz (CH1)
6.			2437MHz (CH6)
7.			2462MHz (CH11)
8.		Receiver	2437MHz (CH6)

* Above all final readings were measured with Peak detector and Average detector.

For Restricted Bands:

Test Date: Apr. 04, 2007 Temperature: 19 ℃ Humidity: 49 %

The EUT was tested in restricted bands and all the test results are listed in section 3.6.3. (The restricted bands defined in RSS-210, Table 1)

No.	Test Mode and Frequency			Reference Test Data No.	
				Horizontal	Vertical
1.	WLAN (802.11b)	Transmitting	2412MHz (CH1)	# 9, # 18	# 10 # 17
2.		Transmitting	2462MHz (CH11)	# 16, # 19	# 15 # 20
3.	WLAN (802.11g)	Transmitting	2412MHz (CH1)	# 16, # 22	# 15, # 23
4.		Transmitting	2462MHz (CH11)	# 10, # 21	# 9 # 20

3.6.1. Frequency Range 30MHz-1000MHz Measurement Result

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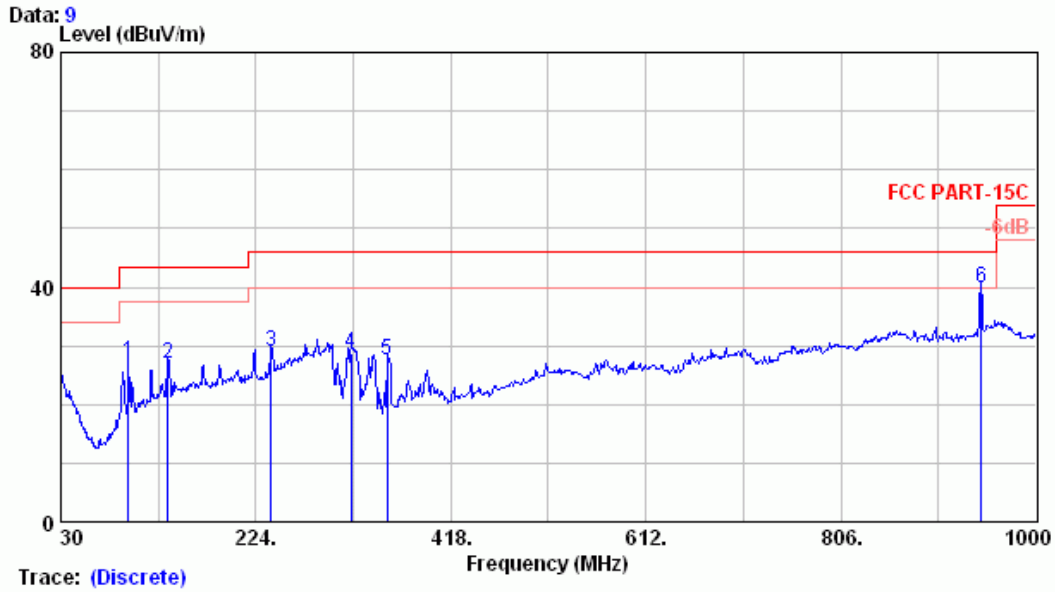


```
Site no.      : A/C Chamber                    Data no.   : 9
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A       Ant. pol.  : HORIZONTAL
Limit         : FCC PART-15C
Env. / Ins.   : 8593EM  21*C/52%               Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	96.930	16.75	2.05	8.49	27.29	43.50	16.21	
2	136.700	19.97	2.40	4.61	26.98	43.50	16.52	
3	239.520	23.03	3.40	2.71	29.14	46.00	16.86	
4	319.060	14.93	4.10	9.72	28.75	46.00	17.25	
5	354.950	15.69	4.37	7.38	27.44	46.00	18.56	
6	945.680	25.68	7.50	6.56	39.74	46.00	6.26	

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
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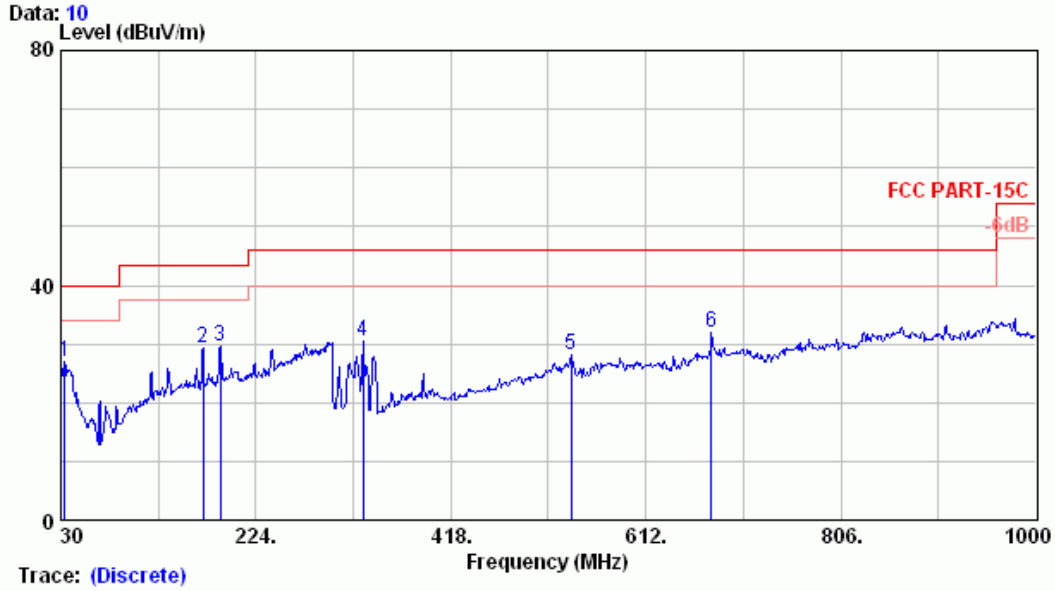


```
Site no.      : A/C Chamber                    Data no.   : 10
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A       Ant. pol.  : VERTICAL
Limit         : FCC PART-15C
Env. / Ins.   : 8593EM  21*C/52%               Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	33.880	23.12	1.10	2.73	26.95	40.00	13.05	
2	171.620	21.04	2.80	5.38	29.22	43.50	14.28	
3	189.080	21.46	2.90	5.12	29.48	43.50	14.02	
4	330.700	15.32	4.20	10.87	30.39	46.00	15.61	
5	537.310	19.41	7.10	1.61	28.12	46.00	17.88	
6	676.990	22.90	6.40	2.63	31.93	46.00	14.07	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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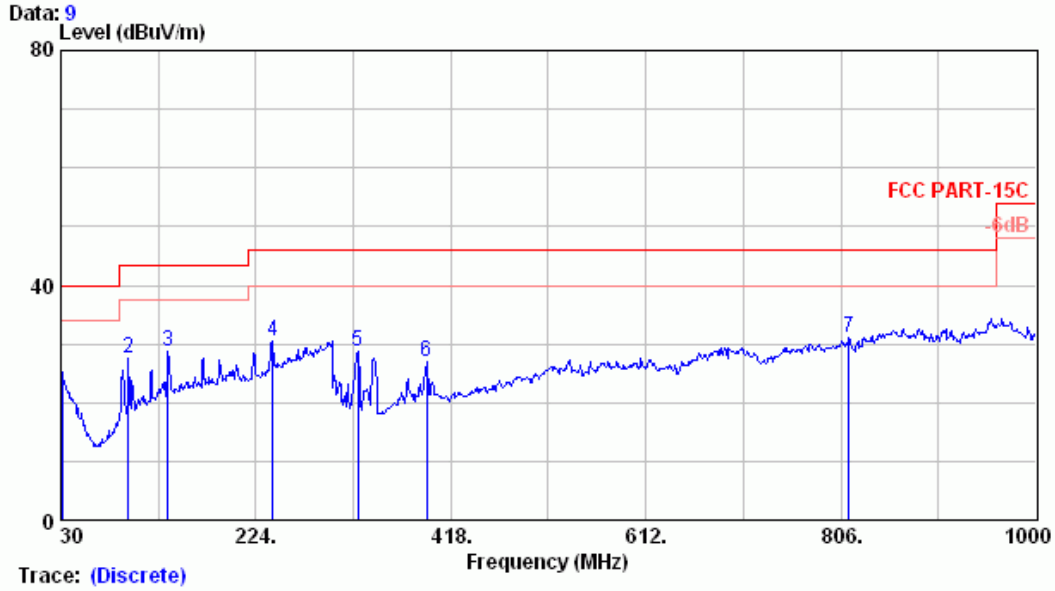

Site no. : A/C Chamber Data no. : 9
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 21*C/52% Engineer : Jarwei Wang
EUT : Electronic Dictionary M/N:Z1
Power Rating : 120Vac/60Hz
Test Mode : TX2437(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	-0.85	25.06	40.00	14.94	
2	96.930	16.75	2.05	8.89	27.69	43.50	15.81	
3	136.700	19.97	2.40	6.24	28.61	43.50	14.89	
4	240.490	23.10	3.40	3.99	30.49	46.00	15.51	
5	325.850	15.15	4.20	9.25	28.60	46.00	17.40	
6	393.750	17.56	4.70	4.74	27.00	46.00	19.00	
7	813.760	23.98	7.00	0.20	31.18	46.00	14.82	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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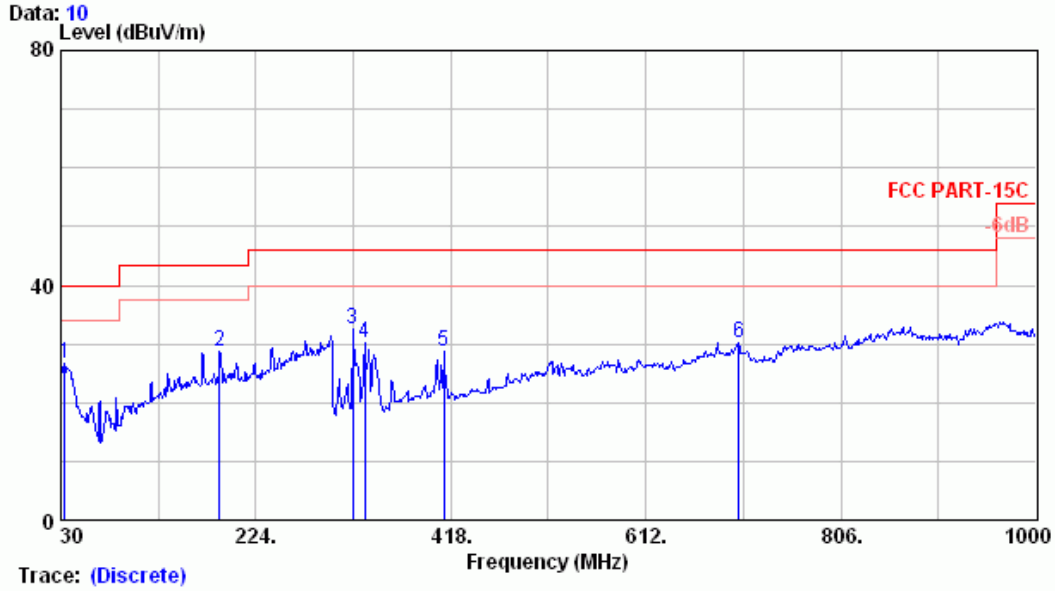

Site no. : A/C Chamber Data no. : 10
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 21*C/52% Engineer : Jarwei Wang
EUT : Electronic Dictionary M/N:Z1
Power Rating : 120Vac/60Hz
Test Mode : TX2437(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	33.880	23.12	1.10	2.55	26.77	40.00	13.23	
2	188.110	21.43	2.90	4.45	28.78	43.50	14.72	
3	320.030	14.99	4.20	13.46	32.64	46.00	13.36	
4	332.640	15.21	4.20	10.75	30.16	46.00	15.84	
5	411.210	17.15	4.90	6.54	28.59	46.00	17.41	
6	704.150	23.56	6.60	0.07	30.23	46.00	15.77	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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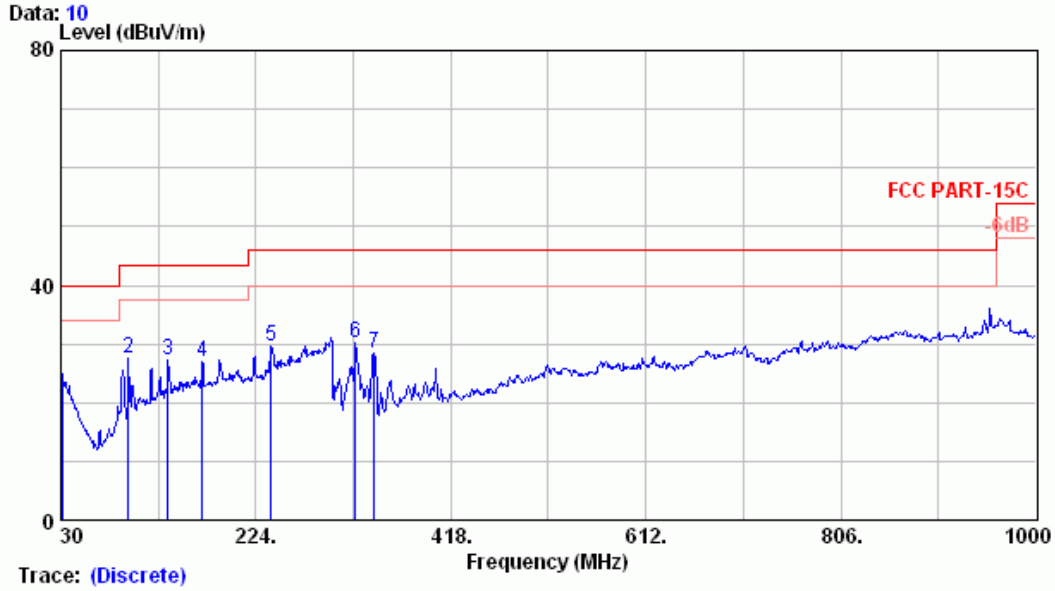

Site no. : A/C Chamber Data no. : 10
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 21*C/52% Engineer : Jarwei Wang
EUT : Electronic Dictionary M/N:Z1
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	-1.06	24.85	40.00	15.15	
2	96.930	16.75	2.05	8.63	27.43	43.50	16.07	
3	136.700	19.97	2.40	4.90	27.27	43.50	16.23	
4	170.650	21.03	2.80	3.24	27.06	43.50	16.44	
5	239.520	23.03	3.40	3.15	29.58	46.00	16.42	
6	322.940	15.08	4.15	11.07	30.30	46.00	15.70	
7	341.370	15.06	4.30	9.14	28.50	46.00	17.50	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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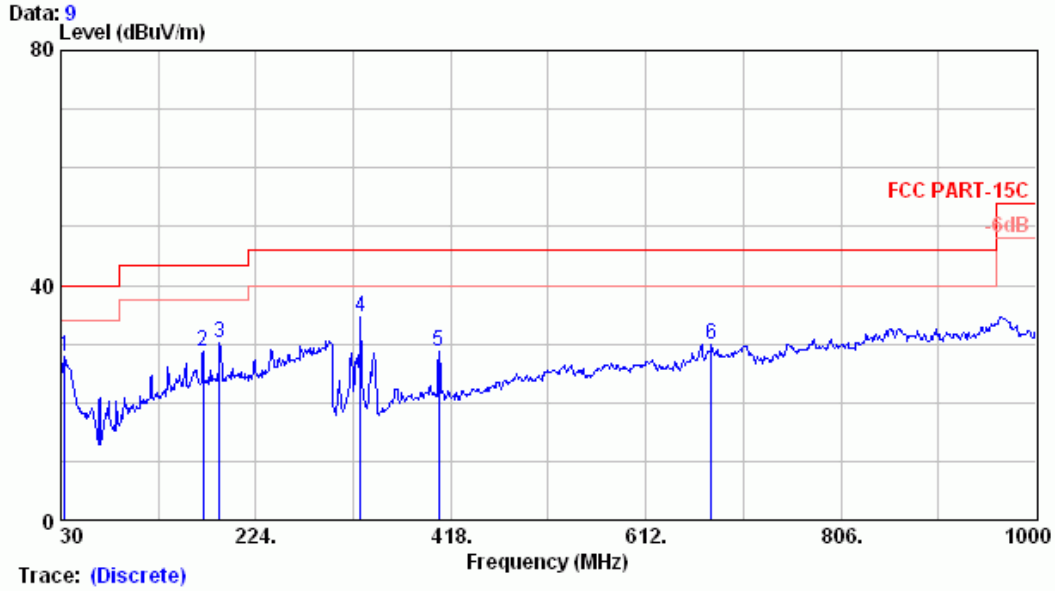

Site no. : A/C Chamber Data no. : 9
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 21*C/52% Engineer : Jarwei Wang
EUT : Electronic Dictionary M/N:Z1
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	33.880	23.12	1.10	3.58	27.80	40.00	12.20	
2	171.620	21.04	2.80	4.95	28.79	43.50	14.71	
3	188.110	21.43	2.90	5.83	30.16	43.50	13.34	
4	327.790	15.28	4.10	15.21	34.59	46.00	11.41	
5	406.360	17.35	4.90	6.58	28.83	46.00	17.17	
6	676.990	22.90	6.40	0.60	29.90	46.00	16.10	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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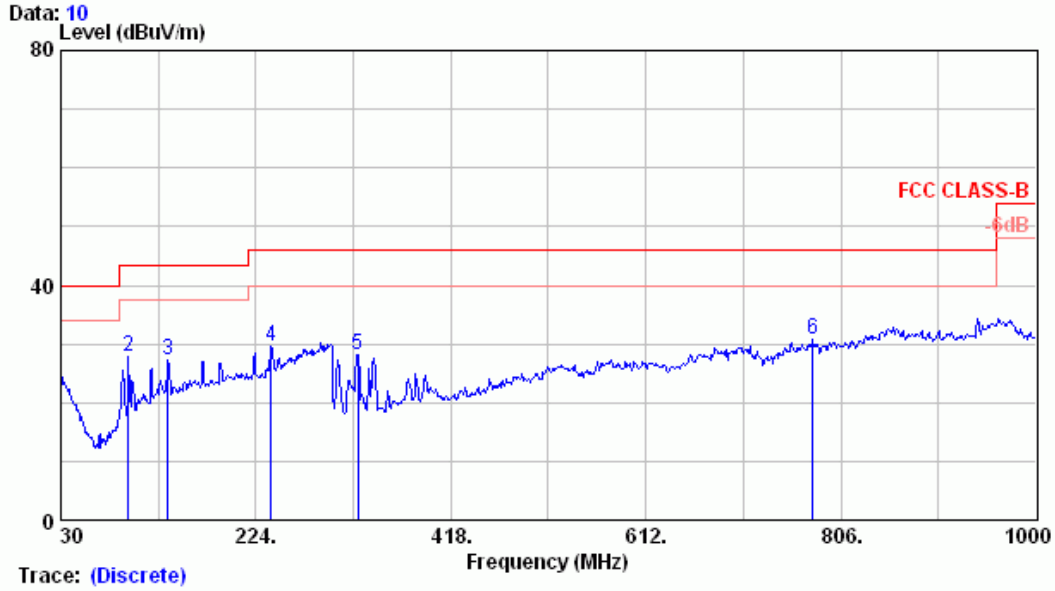

Site no. : A/C Chamber Data no. : 10
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 21*C/52% Engineer : Jarwei Wang
EUT : Electronic Dictionary M/N:Z1
Power Rating : 120Vac/60Hz
Test Mode : RX2437(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.000	24.86	1.10	-1.62	24.34	40.00	15.66	
2	96.930	16.75	2.05	9.08	27.88	43.50	15.62	
3	136.700	19.97	2.40	4.99	27.36	43.50	16.14	
4	239.520	23.03	3.40	3.22	29.65	46.00	16.35	
5	325.850	15.15	4.20	8.74	28.09	46.00	17.91	
6	777.870	24.18	6.80	-0.14	30.85	46.00	15.15	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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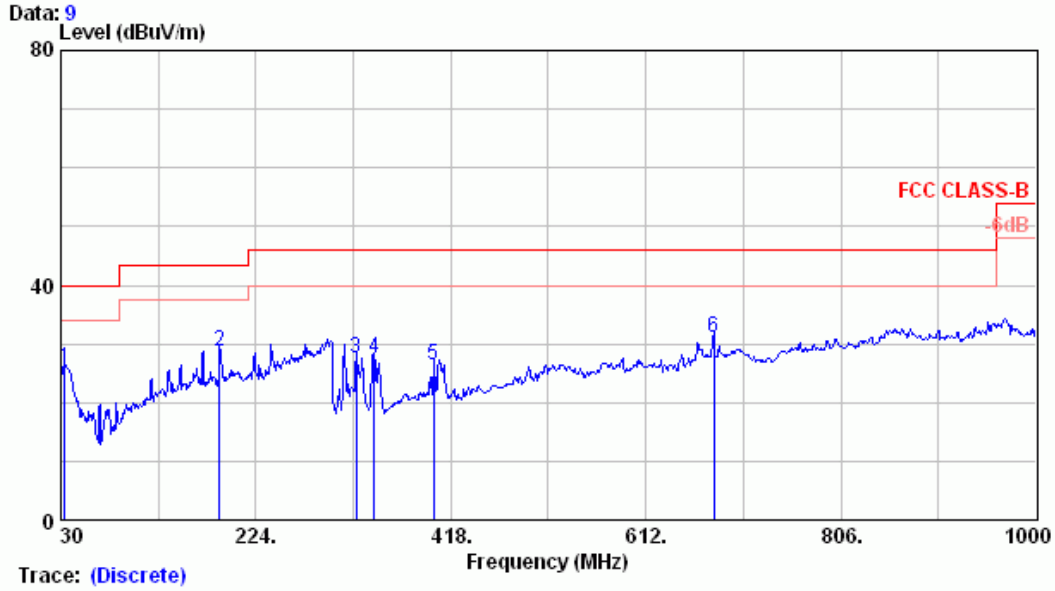


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Site no.      : A/C Chamber                    Data no.   : 9
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A       Ant. pol.  : VERTICAL
Limit         : FCC CLASS-B
Env. / Ins.   : 8593EM  21*C/52%               Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : RX2437(802.11b)
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	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	33.880	23.12	1.10	1.64	25.86	40.00	14.14	
2	188.110	21.43	2.90	4.44	28.77	43.50	14.73	
3	323.910	15.10	4.14	8.42	27.66	46.00	18.34	
4	341.370	15.06	4.30	8.12	27.48	46.00	18.52	
5	400.540	17.66	4.80	3.94	26.40	46.00	19.60	
6	679.900	22.97	6.40	1.67	31.03	46.00	14.97	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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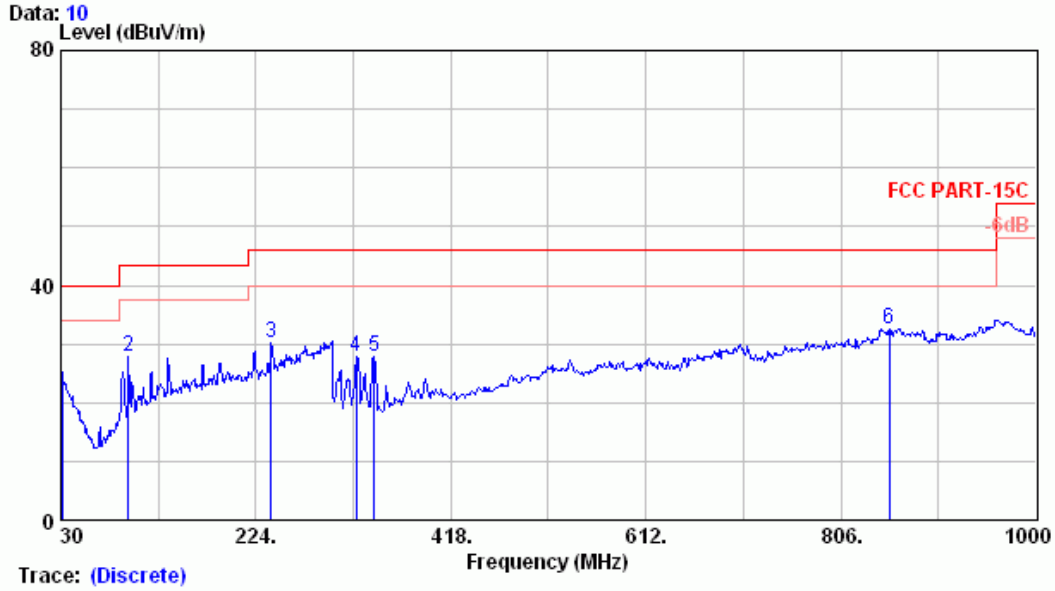

Site no. : A/C Chamber Data no. : 10
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 21*C/52% Engineer : Jarwei Wang
EUT : Electronic Dictionary M/N:Z1
Power Rating : 120Vac/60Hz
Test Mode : TX2412(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	-0.83	25.08	40.00	14.92	
2	96.930	16.75	2.05	8.92	27.72	43.50	15.78	
3	239.520	23.03	3.40	3.69	30.12	46.00	15.88	
4	323.910	15.10	4.14	8.58	27.82	46.00	18.18	
5	341.370	15.06	4.30	8.49	27.85	46.00	18.15	
6	854.500	25.81	7.10	-0.32	32.59	46.00	13.41	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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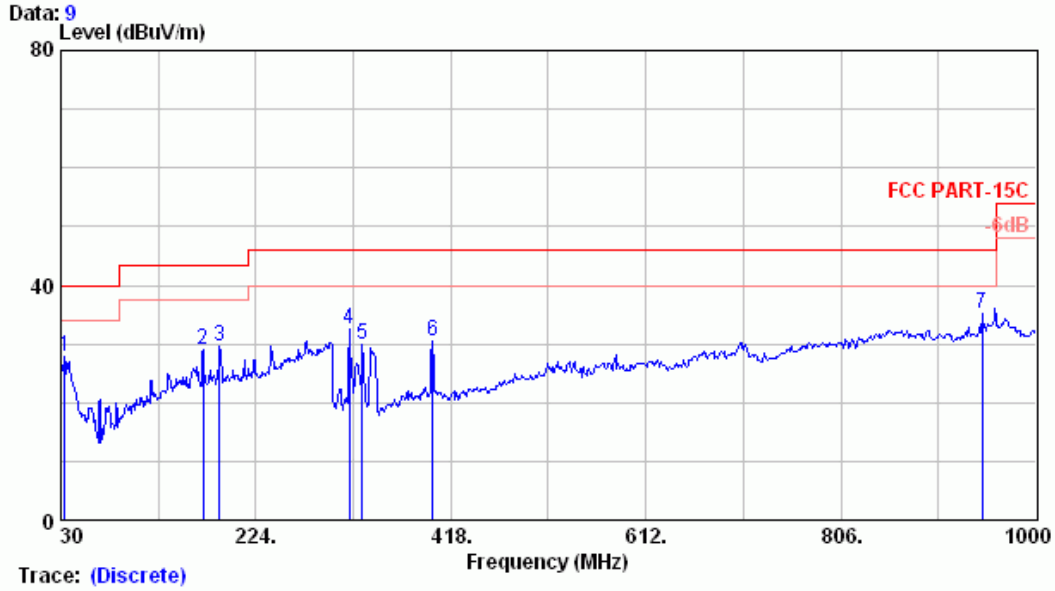

Site no. : A/C Chamber Data no. : 9
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 21*C/52% Engineer : Jarwei Wang
EUT : Electronic Dictionary M/N:Z1
Power Rating : 120Vac/60Hz
Test Mode : TX2412(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	33.880	23.12	1.10	3.58	27.80	40.00	12.20	
2	171.620	21.04	2.80	5.08	28.92	43.50	14.58	
3	188.110	21.43	2.90	5.25	29.58	43.50	13.92	
4	317.120	14.80	4.10	13.52	32.42	46.00	13.58	
5	329.730	15.36	4.14	10.33	29.83	46.00	16.17	
6	399.570	17.69	4.80	8.01	30.49	46.00	15.51	
7	946.650	25.76	7.50	1.89	35.15	46.00	10.85	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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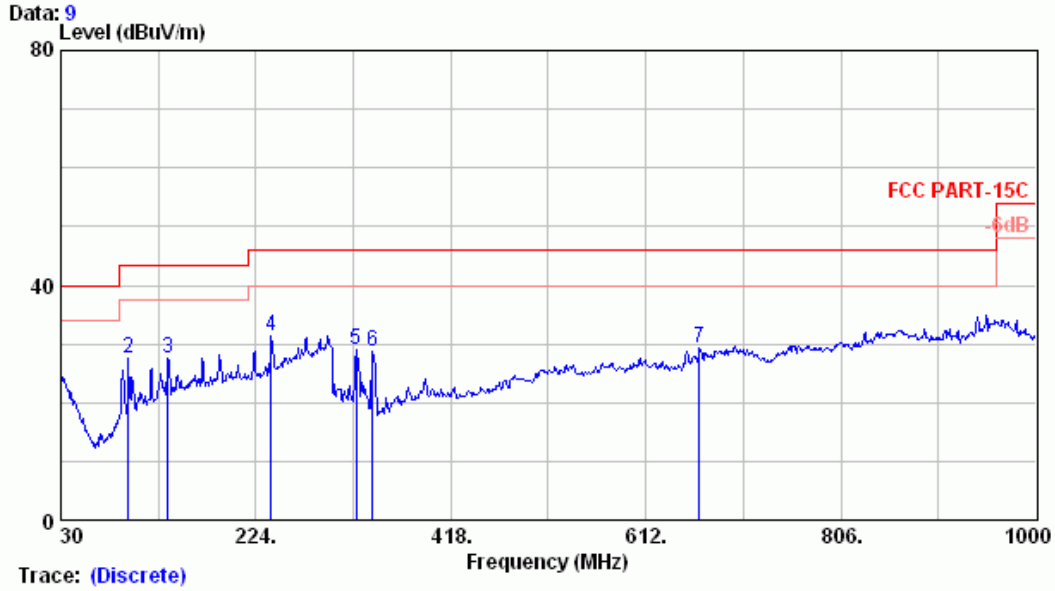

Site no. : A/C Chamber Data no. : 9
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 21*C/52% Engineer : Jarwei Wang
EUT : Electronic Dictionary M/N:Z1
Power Rating : 120Vac/60Hz
Test Mode : TX2437(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.000	24.86	1.10	-1.49	24.47	40.00	15.53	
2	96.930	16.75	2.05	8.80	27.60	43.50	15.90	
3	136.700	19.97	2.40	5.30	27.67	43.50	15.83	
4	239.520	23.03	3.40	4.96	31.39	46.00	14.61	
5	323.910	15.10	4.14	9.65	28.89	46.00	17.11	
6	340.400	15.08	4.30	9.27	28.65	46.00	17.35	
7	665.350	22.65	6.40	0.38	29.43	46.00	16.57	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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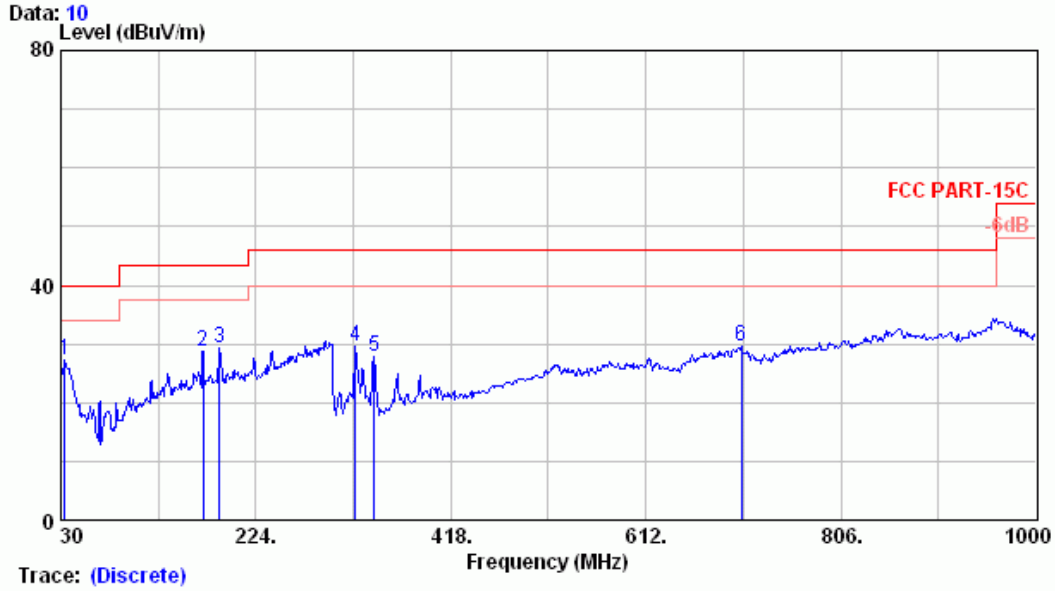


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Site no.      : A/C Chamber                    Data no.   : 10
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A       Ant. pol.  : VERTICAL
Limit         : FCC PART-15C
Env. / Ins.   : 8593EM  21*C/52%               Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2437(802.11g)
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	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	33.880	23.12	1.10	2.89	27.11	40.00	12.89	
2	171.620	21.04	2.80	4.88	28.72	43.50	14.78	
3	188.110	21.43	2.90	5.03	29.36	43.50	14.14	
4	322.940	15.08	4.15	10.47	29.70	46.00	16.30	
5	341.370	15.06	4.30	8.60	27.96	46.00	18.04	
6	707.060	23.55	6.60	-0.67	29.48	46.00	16.52	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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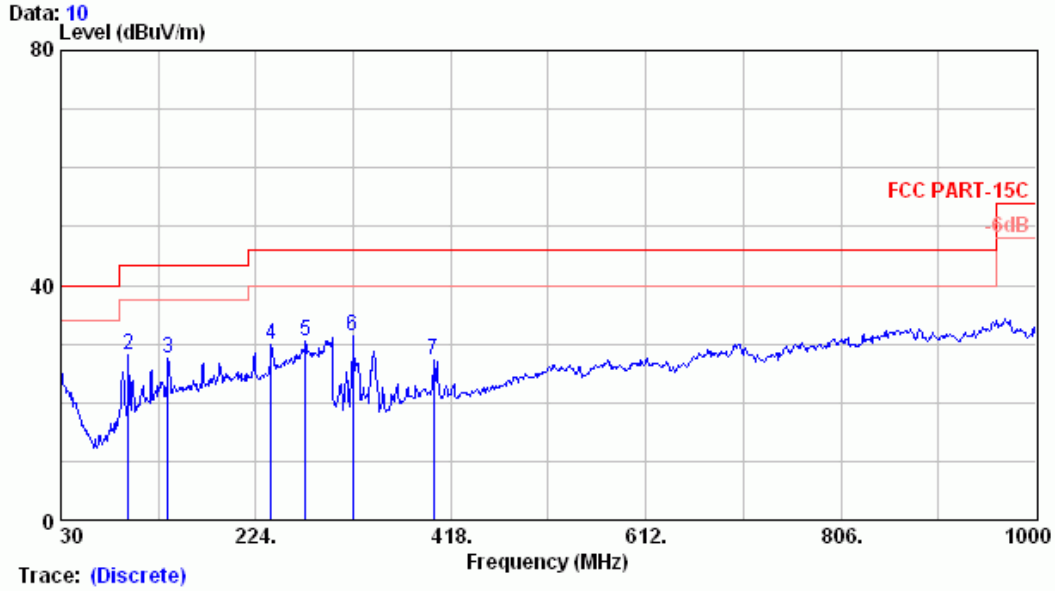

Site no. : A/C Chamber Data no. : 10
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 21*C/52% Engineer : Jarwei Wang
EUT : Electronic Dictionary M/N:Z1
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.000	24.86	1.10	-0.78	25.18	40.00	14.82	
2	96.930	16.75	2.05	9.20	28.00	43.50	15.50	
3	136.700	19.97	2.40	5.09	27.46	43.50	16.04	
4	239.520	23.03	3.40	3.46	29.89	46.00	16.11	
5	273.470	25.14	3.70	1.55	30.39	46.00	15.61	
6	320.030	14.99	4.20	12.11	31.29	46.00	14.71	
7	400.540	17.66	4.80	4.66	27.12	46.00	18.88	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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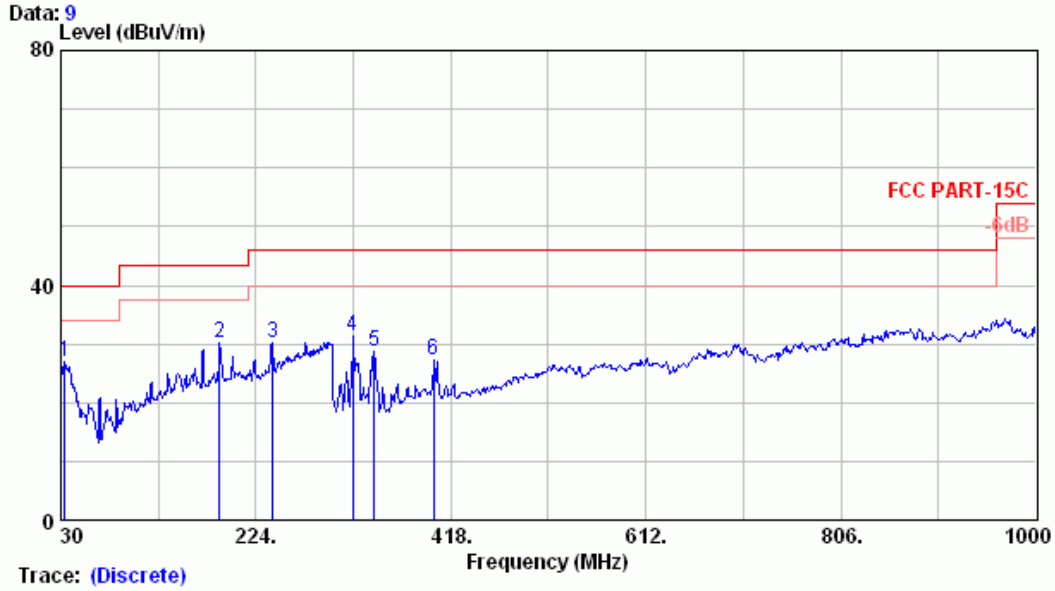

Site no. : A/C Chamber Data no. : 9
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 21*C/52% Engineer : Jarwei Wang
EUT : Electronic Dictionary M/N:Z1
Power Rating : 120Vac/60Hz
Test Mode : TX2462(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	33.880	23.12	1.10	2.66	26.88	40.00	13.12	
2	188.110	21.43	2.90	5.85	30.18	43.50	13.32	
3	240.490	23.10	3.40	3.72	30.22	46.00	15.78	
4	320.030	14.99	4.20	12.11	31.29	46.00	14.71	
5	341.370	15.06	4.30	9.40	28.76	46.00	17.24	
6	400.540	17.66	4.80	4.66	27.12	46.00	18.88	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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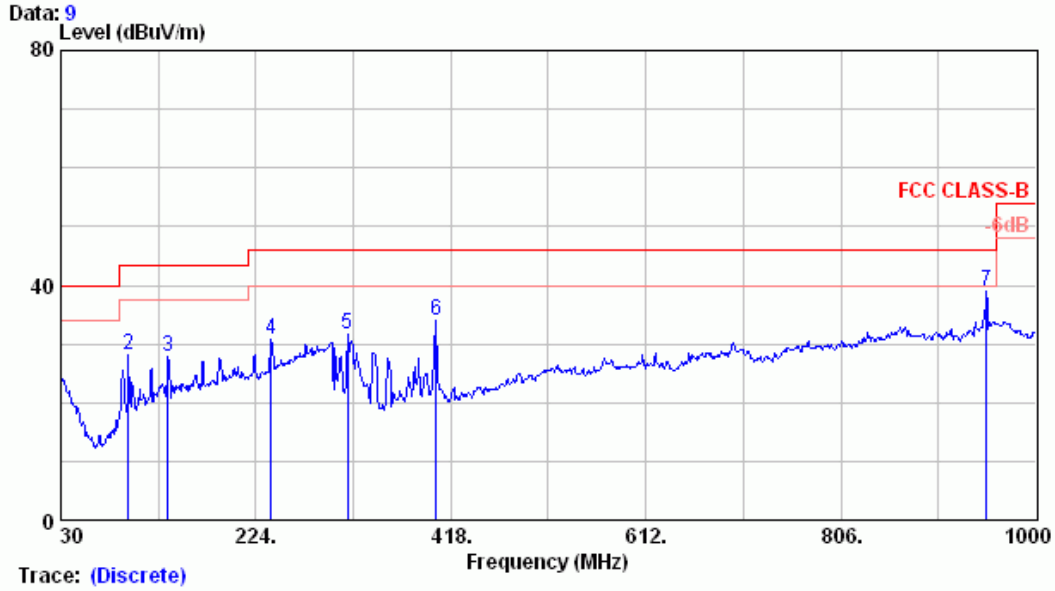

Site no. : A/C Chamber Data no. : 9
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 21*C/52% Engineer : Jarwei Wang
EUT : Electronic Dictionary M/N:Z1
Power Rating : 120Vac/60Hz
Test Mode : RX2437(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.000	24.86	1.10	-1.66	24.30	40.00	15.70	
2	96.930	16.75	2.05	9.31	28.11	43.50	15.39	
3	136.700	19.97	2.40	5.55	27.92	43.50	15.58	
4	239.520	23.03	3.40	4.45	30.88	46.00	15.12	
5	315.180	14.71	4.01	13.00	31.72	46.00	14.28	
6	403.450	17.54	4.90	11.53	33.96	46.00	12.04	
7	950.530	25.93	7.55	5.42	38.91	46.00	7.09	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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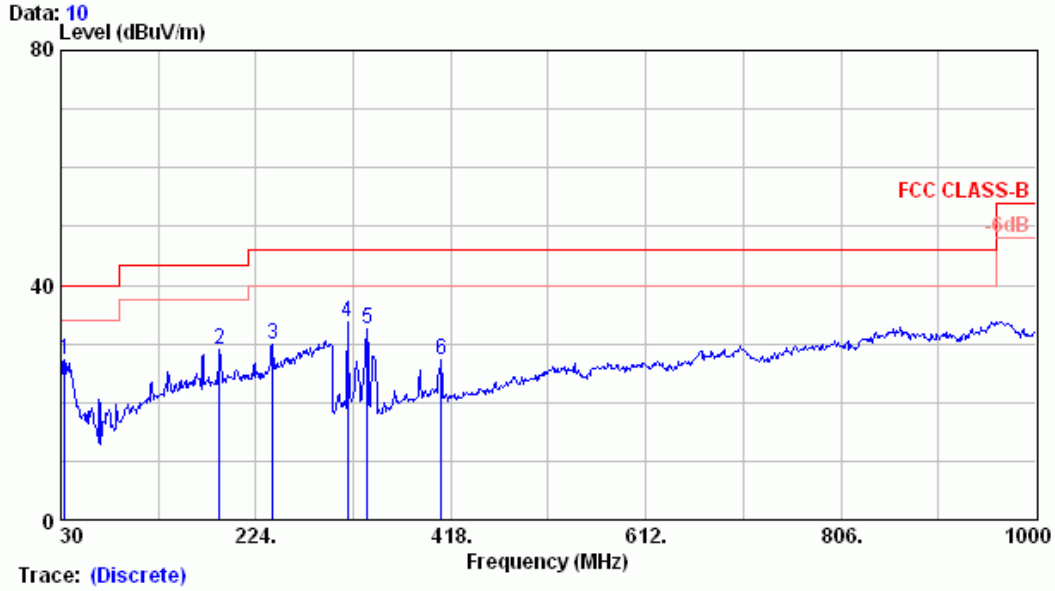

Site no. : A/C Chamber Data no. : 10
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 21*C/52% Engineer : Jarwei Wang
EUT : Electronic Dictionary M/N:Z1
Power Rating : 120Vac/60Hz
Test Mode : RX2437(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	33.880	23.12	1.10	3.08	27.30	40.00	12.70	
2	188.110	21.43	2.90	4.70	29.03	43.50	14.47	
3	240.490	23.10	3.40	3.51	30.01	46.00	15.99	
4	315.180	14.71	4.01	14.99	33.71	46.00	12.29	
5	334.580	15.09	4.20	13.31	32.60	46.00	13.40	
6	408.300	17.28	4.90	5.10	27.27	46.00	18.73	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3.6.2. Frequency Range Above 1GHz Measurement Results

3.6.2.1. WLAN (802.11b)

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Transmitting Mode, Frequency: 2412MHz (CH1)	Test Voltage：	AC 120V, 60Hz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1700.560	26.46	6.83	8.28	41.57	74.00	32.43	Peak
2061.760	27.93	5.94	7.52	41.40	74.00	32.60	Peak
1700.560	26.46	6.83	0.28	33.57	54.00	20.43	Average
2061.760	27.93	5.94	-0.48	33.40	54.00	20.60	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1720.720	26.55	6.96	7.11	40.62	74.00	33.38	Peak
2065.120	27.94	5.94	7.01	40.90	74.00	33.10	Peak
1720.720	26.55	6.96	-0.89	32.62	54.00	21.38	Average
2065.120	27.94	5.94	-0.99	32.90	54.00	21.10	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Transmitting Mode, Frequency: 2437MHz (CH6)	Test Voltage：	AC 120V, 60Hz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1414.960	25.37	5.18	7.90	38.46	74.00	35.54	Peak
1947.520	27.58	6.11	7.97	41.66	74.00	32.34	Peak
1414.960	25.37	5.18	-0.10	30.46	54.00	23.54	Average
1947.520	27.58	6.11	-0.03	33.66	54.00	20.34	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1099.120	25.25	4.39	9.85	39.49	74.00	34.51	Peak
1897.120	27.37	6.38	7.77	41.52	74.00	32.48	Peak
1099.120	25.25	4.39	1.85	31.49	54.00	22.51	Average
1897.120	27.37	6.38	-0.23	33.52	54.00	20.48	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Transmitting Mode, Frequency: 2462MHz (CH11)	Test Voltage：	AC 120V, 60Hz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1687.120	26.38	6.76	7.89	41.03	74.00	32.97	Peak
2065.120	27.94	5.94	7.88	41.77	74.00	32.23	Peak
1687.120	26.38	6.76	-0.11	33.03	54.00	20.97	Average
2065.120	27.94	5.94	-0.12	33.77	54.00	20.23	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1641.760	26.17	6.41	7.89	40.47	74.00	33.53	Peak
1981.120	27.73	5.98	7.17	40.87	74.00	33.13	Peak
1641.760	26.17	6.41	-0.11	32.47	54.00	21.53	Average
1981.120	27.73	5.98	-0.83	32.87	54.00	21.13	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Receiving Mode, Frequency: 2437MHz (CH6)	Test Voltage：	AC 120V, 60Hz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1818.160	27.01	6.80	7.61	41.42	74.00	32.58	Peak
2145.760	28.11	6.04	7.52	41.67	74.00	32.33	Peak
1818.160	27.01	6.80	-0.39	33.42	54.00	20.58	Average
2145.760	28.11	6.04	-0.48	33.67	54.00	20.33	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1893.760	27.34	6.42	8.14	41.90	74.00	32.10	Peak
2145.760	28.11	6.04	9.31	43.46	74.00	30.54	Peak
1893.760	27.34	6.42	0.14	33.90	54.00	20.10	Average
2145.760	28.11	6.04	1.31	35.46	54.00	18.54	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

3.6.2.2. WLAN (802.11g)

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Transmitting Mode, Frequency: 2412MHz (CH1)	Test Voltage：	AC 120V, 60Hz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1250.320	25.31	4.68	8.34	38.33	74.00	35.67	Peak
2224.720	28.28	6.14	7.83	42.25	74.00	31.75	Peak
1250.320	25.31	4.68	2.34	32.33	54.00	21.67	Average
2224.720	28.28	6.14	0.83	35.25	54.00	18.75	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1082.320	25.24	4.35	8.81	38.40	74.00	35.60	Peak
2165.920	28.15	6.07	8.08	42.30	74.00	31.70	Peak
1082.320	25.24	4.35	1.81	31.40	54.00	22.60	Average
2165.920	28.15	6.07	1.08	35.30	54.00	18.70	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Transmitting Mode, Frequency: 2437MHz (CH6)	Test Voltage：	AC 120V, 60Hz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1359.520	25.35	5.03	7.77	38.15	74.00	35.85	Peak
1888.720	27.32	6.45	7.47	41.24	74.00	32.76	Peak
1359.520	25.35	5.03	0.77	31.15	54.00	22.85	Average
1888.720	27.32	6.45	0.47	34.24	54.00	19.76	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1712.320	26.50	6.92	7.62	41.05	74.00	32.95	Peak
2221.360	28.27	6.13	7.59	41.99	74.00	32.01	Peak
1712.320	26.50	6.92	0.62	34.05	54.00	19.95	Average
2221.360	28.27	6.13	0.59	34.99	54.00	19.01	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Transmitting Mode, Frequency: 2462MHz (CH11)	Test Voltage：	AC 120V, 60Hz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1641.760	26.17	6.41	8.18	40.76	74.00	33.24	Peak
2229.760	28.28	6.14	8.12	42.55	74.00	31.45	Peak
1641.760	26.17	6.41	1.18	33.76	54.00	20.24	Average
2229.760	28.28	6.14	1.12	35.55	54.00	18.45	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1418.320	25.37	5.20	8.30	38.87	74.00	35.13	Peak
2023.120	27.85	5.89	7.93	41.67	74.00	32.33	Peak
1418.320	25.37	5.20	1.30	31.87	54.00	22.13	Average
2023.120	27.85	5.89	0.93	34.67	54.00	19.33	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Receiving Mode, Frequency: 2437MHz (CH6)	Test Voltage：	AC 120V, 60Hz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1112.560	25.25	4.42	8.06	37.73	74.00	36.27	Peak
1888.720	27.32	6.45	8.43	42.20	74.00	31.80	Peak
1112.560	25.25	4.42	1.06	30.73	54.00	23.27	Average
1888.720	27.32	6.45	1.43	35.20	54.00	18.80	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1065.520	25.23	4.32	7.82	37.37	74.00	36.63	Peak
2216.320	28.25	6.13	8.26	42.65	74.00	31.35	Peak
1065.520	25.23	4.32	0.82	30.37	54.00	23.63	Average
2216.320	28.25	6.13	1.26	35.65	54.00	18.35	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

3.6.3. Restricted Bands Measurement Results

3.6.3.1. WLAN (802.11b)

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Transmitting Mode, Frequency: 2412MHz (CH1)	Test Voltage：	AC 120V, 60Hz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2389.680	28.59	6.34	8.05	42.99	74.00	31.01	Peak
2384.520	**28.59**	**6.33**	**2.13**	**37.06**	**54.00**	**16.94**	**Average**

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2390MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

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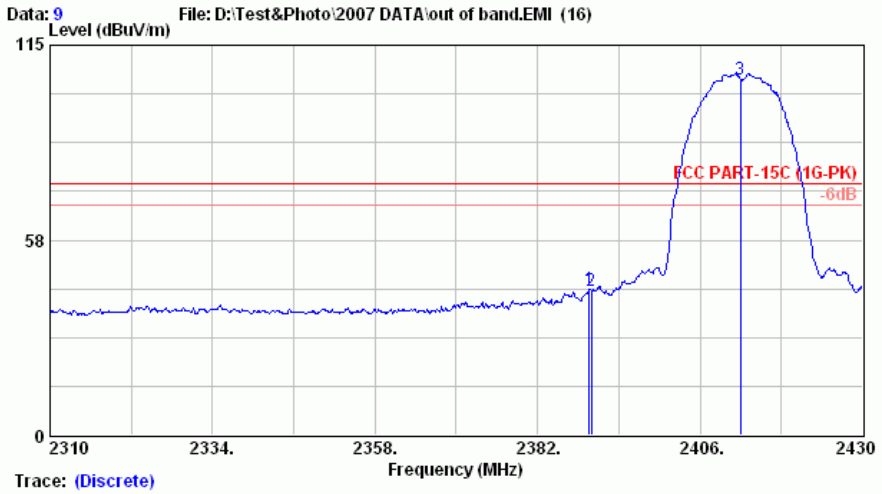
Email:ttemc@ttemc.



Trace: (Discrete)

```
Site no.      : A/C Chamber                 Data no.   : 9
Dis. / Ant.   : 3m   3115                   Ant. pol.  : HORIZONTAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%            Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(out of band)
```

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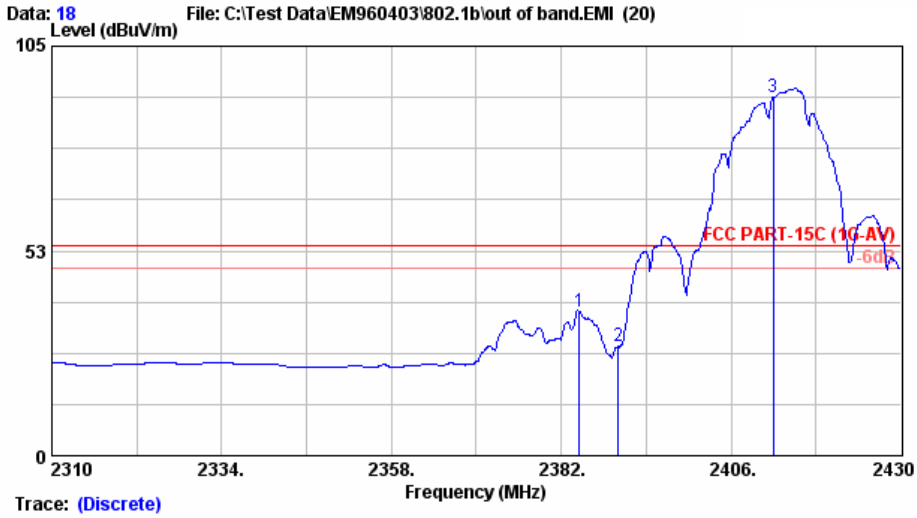

Trace: (Discrete)

```
Site no.      : A/C Chamber                 Data no.   : 18
Dis. / Ant.   : 3m   3115                   Ant. pol.  : HORIZONTAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : 8593EM  21*C/52%            Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(out of band)
```

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Transmitting Mode, Frequency: 2412MHz (CH1)	Test Voltage：	AC 120V, 60Hz

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2389.680	28.59	6.34	6.39	41.33	74.00	32.67	Peak
2374.440	**28.57**	**6.32**	**12.90**	**47.79**	**54.00**	**6.21**	**Average**

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2390MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

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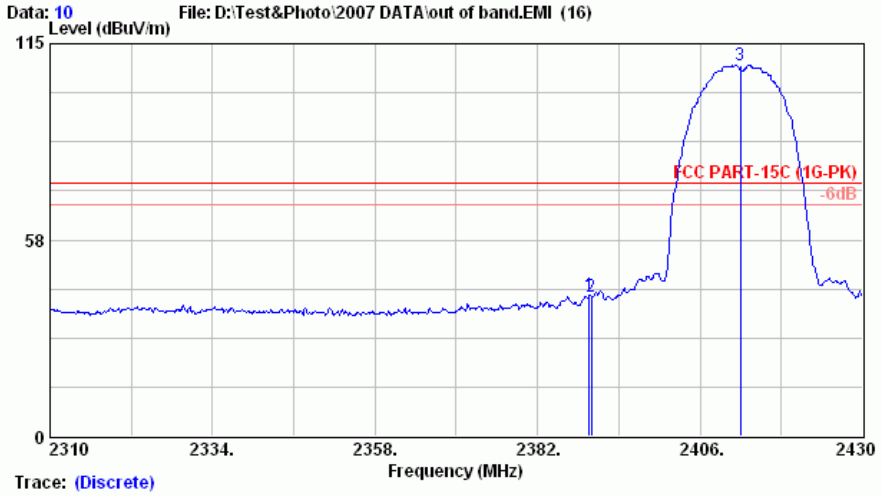

Trace: (Discrete)

```
Site no.      : A/C Chamber                  Data no.   : 10
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(out of band)
```

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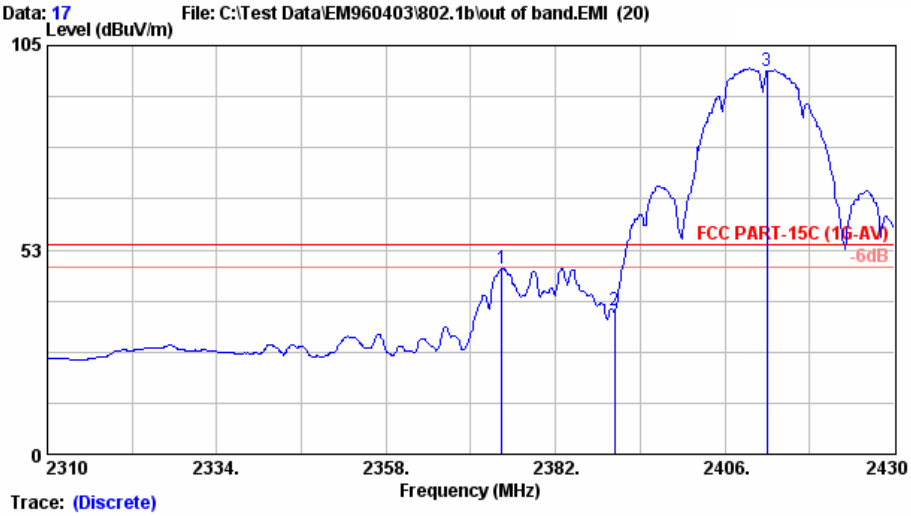

Trace: (Discrete)

```
Site no.      : A/C Chamber                  Data no.   : 17
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(out of band)
```

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Transmitting Mode, Frequency: 2462MHz (CH11)	Test Voltage：	AC 120V, 60Hz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.920	28.77	6.45	3.66	38.88	74.00	35.12	Peak
2488.240	**28.77**	**6.45**	**46.74**	**41.85**	**54.00**	**12.15**	**Average**

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2483.5-2500MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

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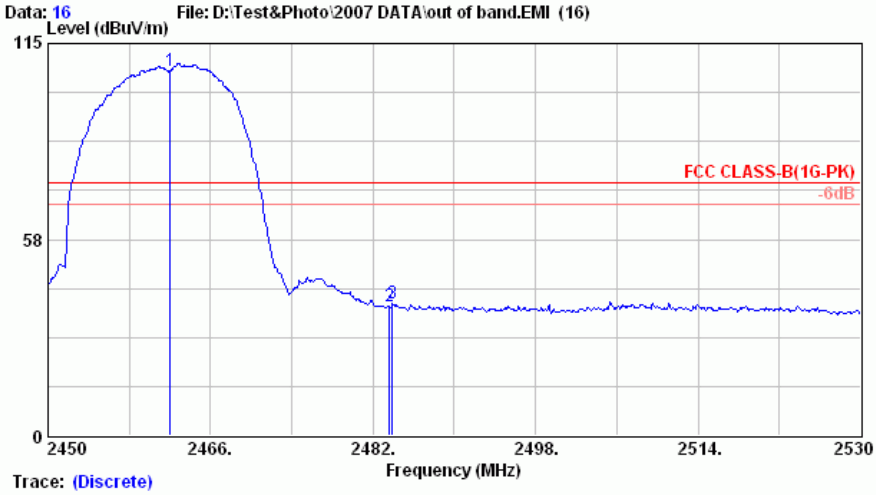

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 16
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC CLASS-B(1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(out of band)		

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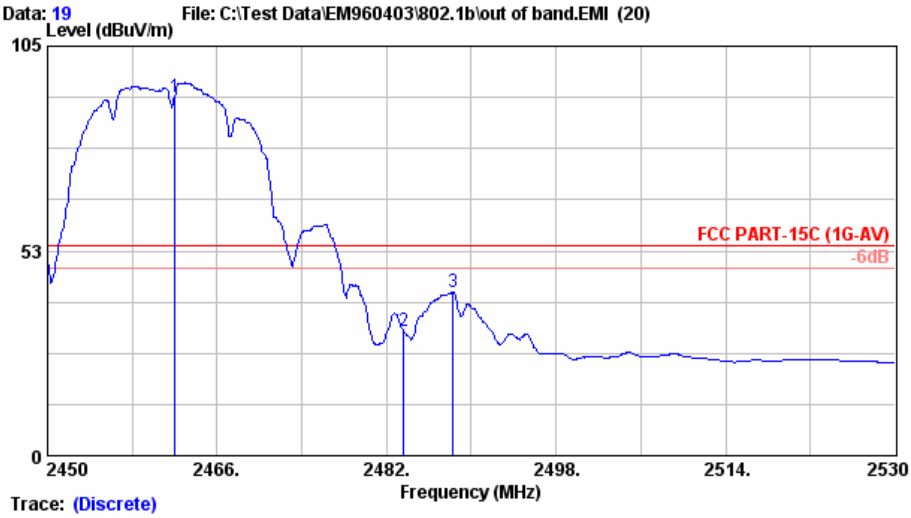

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 19
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(out of band)		

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Transmitting Mode, Frequency: 2462MHz (CH11)	Test Voltage：	AC 120V, 60Hz

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2488.960	28.77	6.45	2.80	38.03	74.00	35.97	Peak
2487.120	**28.77**	**6.45**	**49.50**	**44.61**	**54.00**	**9.39**	**Average**

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2483.5-2500MHz).
3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

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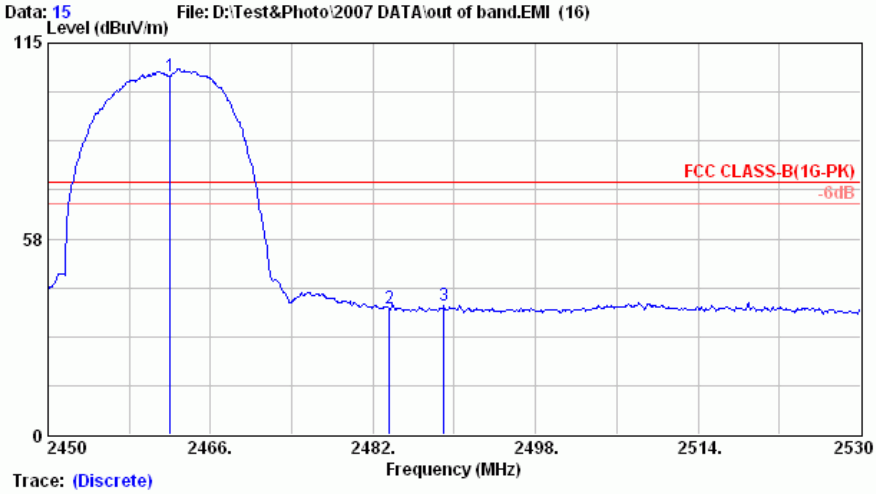
Email:ttemc@ttemc.



Trace: (Discrete)

```
Site no.      : A/C Chamber                 Data no.   : 15
Dis. / Ant.   : 3m   3115                   Ant. pol.  : VERTICAL
Limit         : FCC CLASS-B(1G-PK)
Env. / Ins.   : 8593EM  21*C/52%            Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2462(out of band)
```

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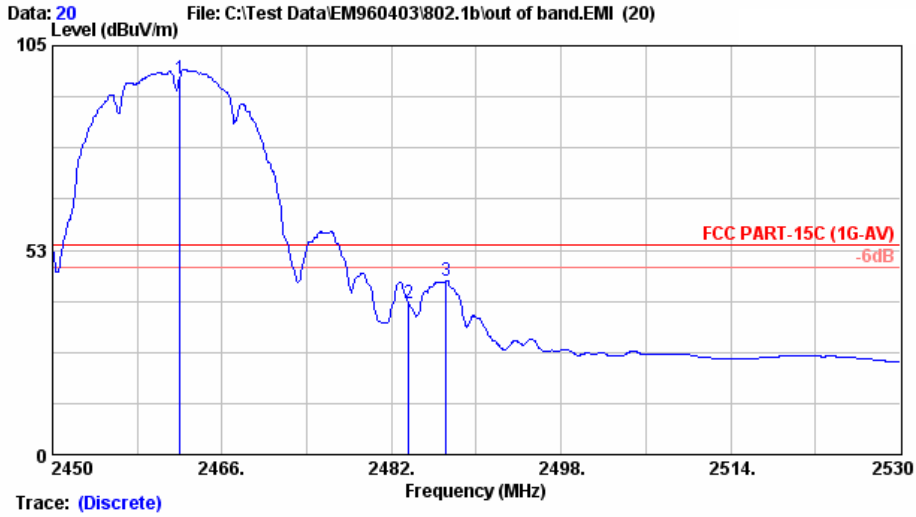

Trace: (Discrete)

```
Site no.      : A/C Chamber                 Data no.   : 20
Dis. / Ant.   : 3m   3115                   Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : 8593EM  21*C/52%            Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2462(out of band)
```

3.6.3.2. WLAN (802.11g)

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Transmitting Mode, Frequency: 2412MHz (CH1)	Test Voltage：	AC 120V, 60Hz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2389.920	28.59	6.34	20.60	55.53	74.00	18.47	Peak
2378.040	**28.58**	**6.32**	**-10.57**	**24.33**	**54.00**	**29.67**	**Average**

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2390MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

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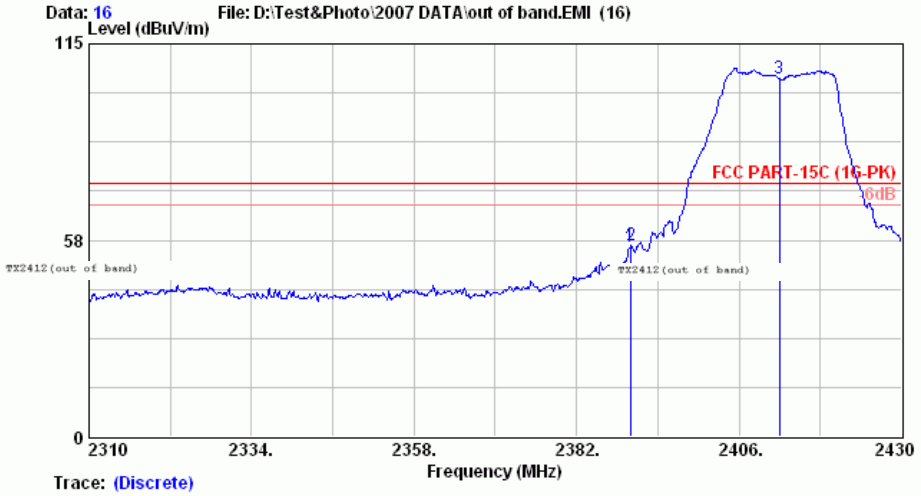

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 16
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(out of band)		

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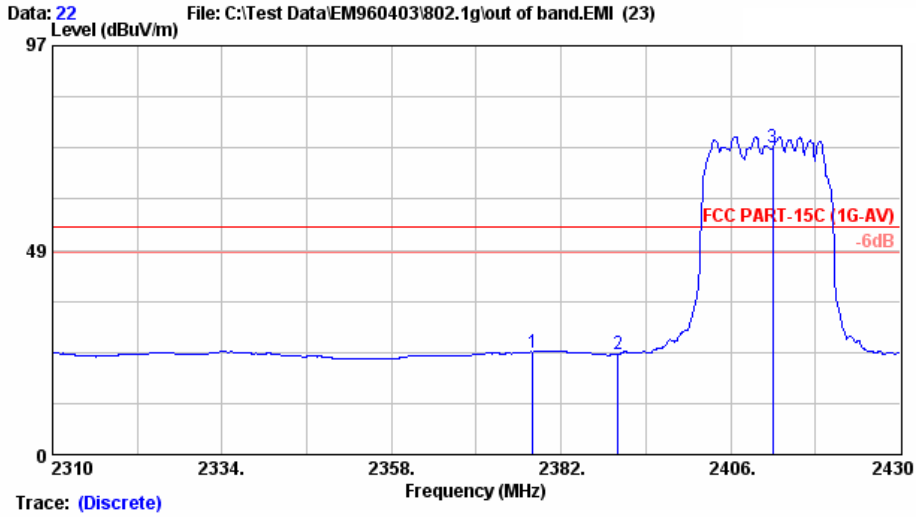

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 22
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2412(out of band)		

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Transmitting Mode, Frequency: 2412MHz (CH1)	Test Voltage：	AC 120V, 60Hz

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2389.080	28.59	6.34	11.90	46.83	74.00	27.17	Peak
2379.000	**28.58**	**6.32**	**-9.64**	**25.26**	**54.00**	**28.74**	**Average**

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2390MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

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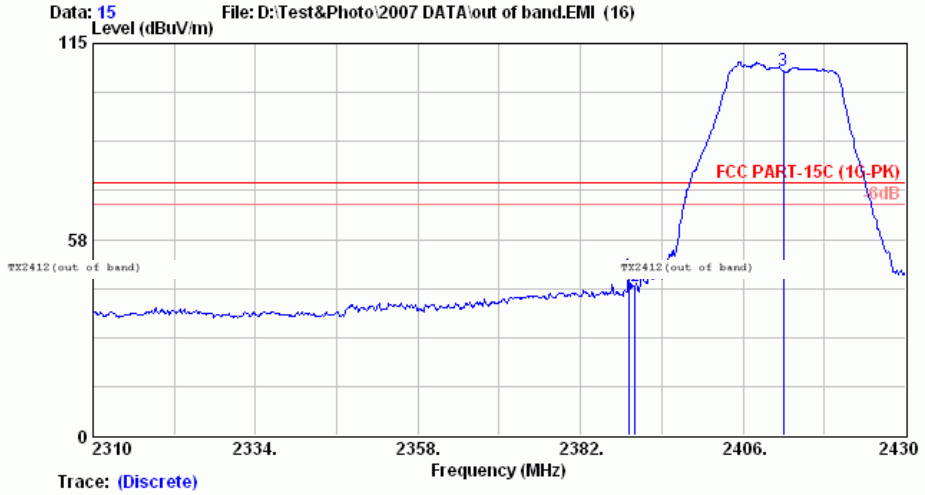

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 15
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(out of band)		

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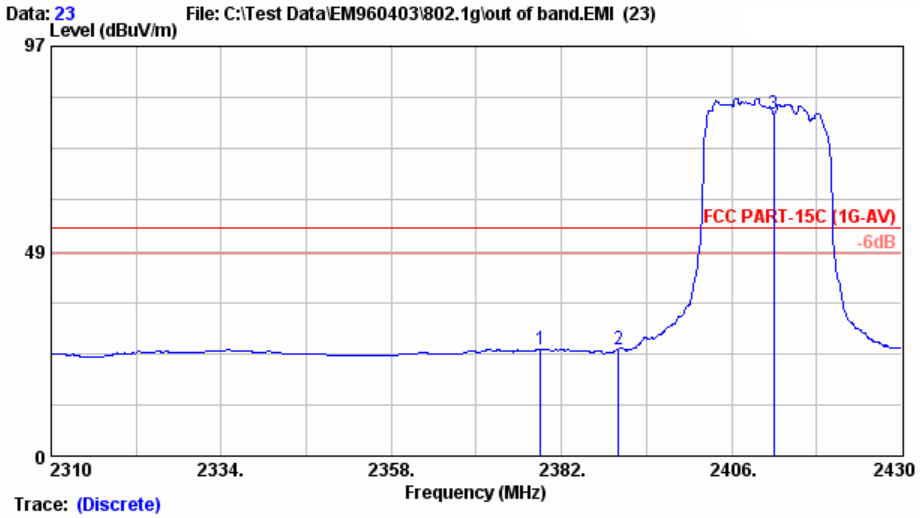

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 23
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2412(out of band)		

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Transmitting Mode, Frequency: 2462MHz (CH11)	Test Voltage：	AC 120V, 60Hz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.600	28.77	6.45	1.23	36.46	74.00	37.54	Peak
2487.840	**28.77**	**6.45**	**-10.37**	**24.86**	**54.00**	**29.14**	**Average**

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2483.5-2500MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

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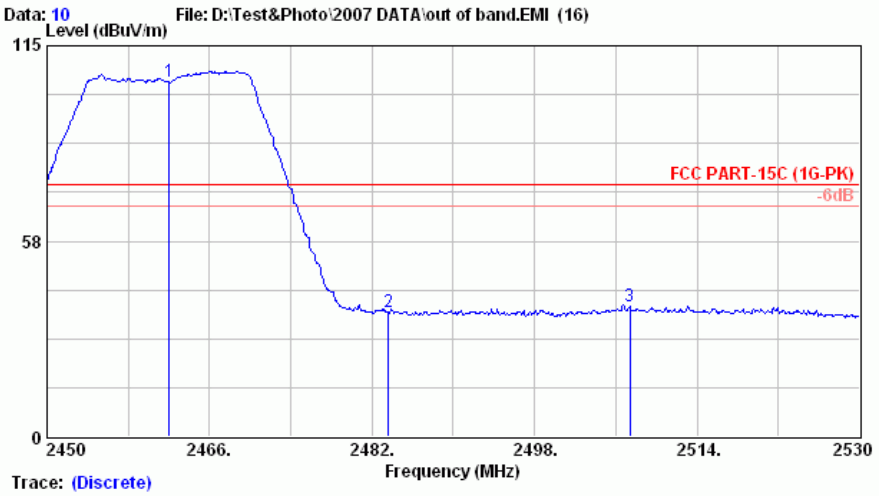

Trace: (Discrete)

```
Site no.      : A/C Chamber                 Data no.   : 10
Dis. / Ant.   : 3m   3115                   Ant. pol.  : HORIZONTAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%            Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2462(out of band)
```

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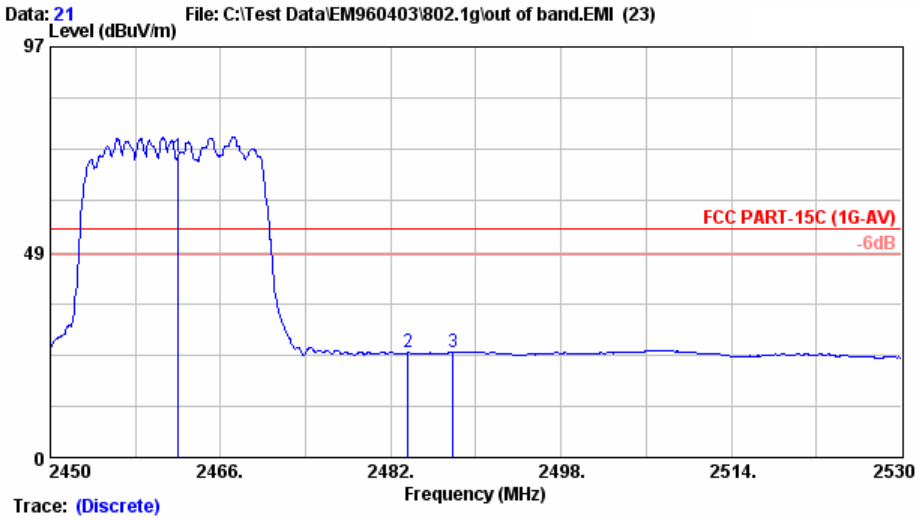

Trace: (Discrete)

```
Site no.      : A/C Chamber                 Data no.   : 21
Dis. / Ant.   : 3m   3115                   Ant. pol.  : HORIZONTAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : 8593EM  21*C/52%            Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2462(out of band)
```

Date of Test：	Apr. 04, 2007	Temperature：	19℃
EUT：	Electronic Dictionary	Humidity：	49%
Test Mode：	Transmitting Mode, Frequency: 2462MHz (CH11)	Test Voltage：	AC 120V, 60Hz

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.600	28.77	6.45	1.14	36.37	74.00	37.63	Peak
2483.600	**28.77**	**6.45**	**-9.47**	**25.75**	**54.00**	**28.25**	**Average**

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2483.5-2500MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

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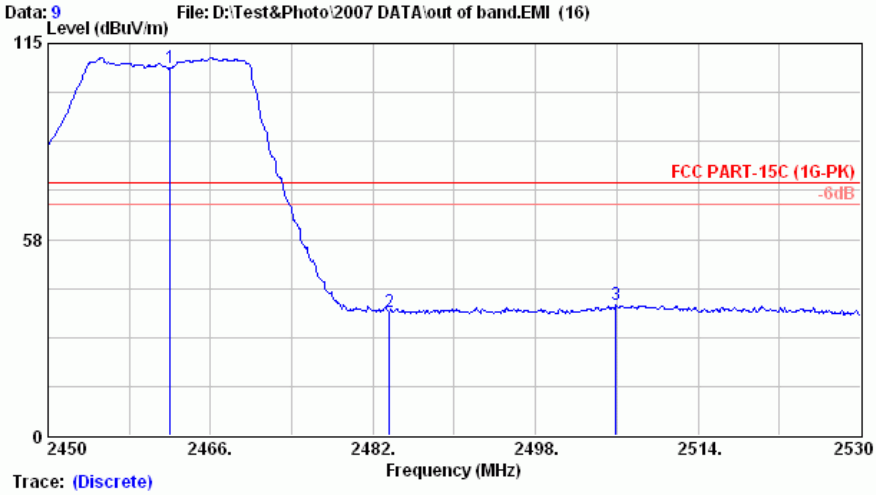


```
Site no.      : A/C Chamber                 Data no.   : 9
Dis. / Ant.   : 3m   3115                   Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%            Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2462(out of band)
```

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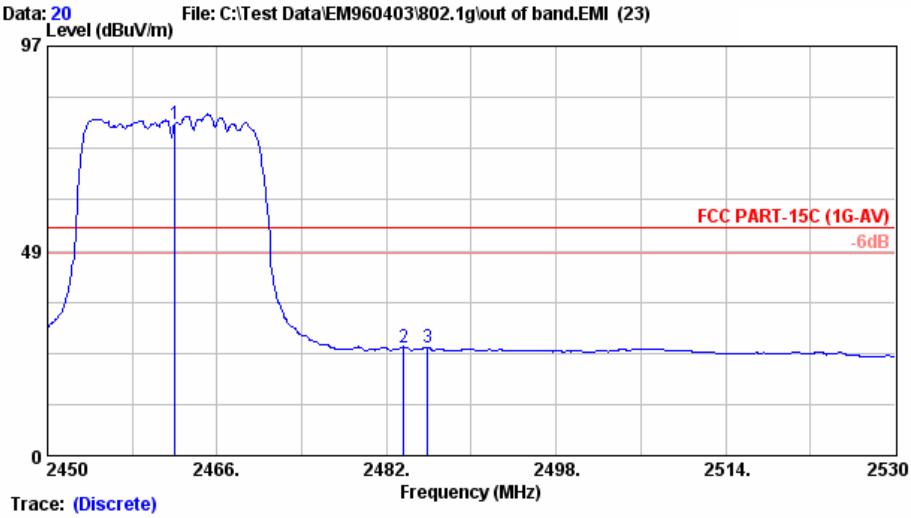



```
Site no.      : A/C Chamber                 Data no.   : 20
Dis. / Ant.   : 3m   3115                   Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : 8593EM  21*C/52%            Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2462(out of band)
```

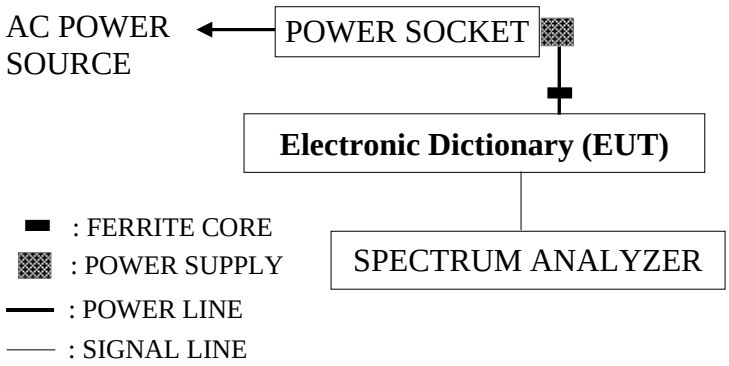
4. 6dB BANDWIDTH MEASUREMENT

4.1.Test Equipment

The following test equipment was used during the 6dB bandwidth measurement：

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Monitor	Agilent	E4446A	US44300366	Aug. 11, 06’	Aug. 10. 07’

4.2.Block Diagram of Test Setup



4.3.Specification Limits (§15.247(a)(2))

The minimum 6dB bandwidth shall be at least 500kHz.

4.4.Operating Condition of EUT

4.4.1.Setup the EUT and simulator as shown on 4.2.

4.4.2.Turn on the power of all equipment.

4.4.3. Run the test program “MyLab Tool”, 802.11b data rate set at 1MB/sec. and 802.11g data rate set at 6MB/sec. during the testing.

4.5.Test Procedure

The RF output of EUT was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.6.Test Results

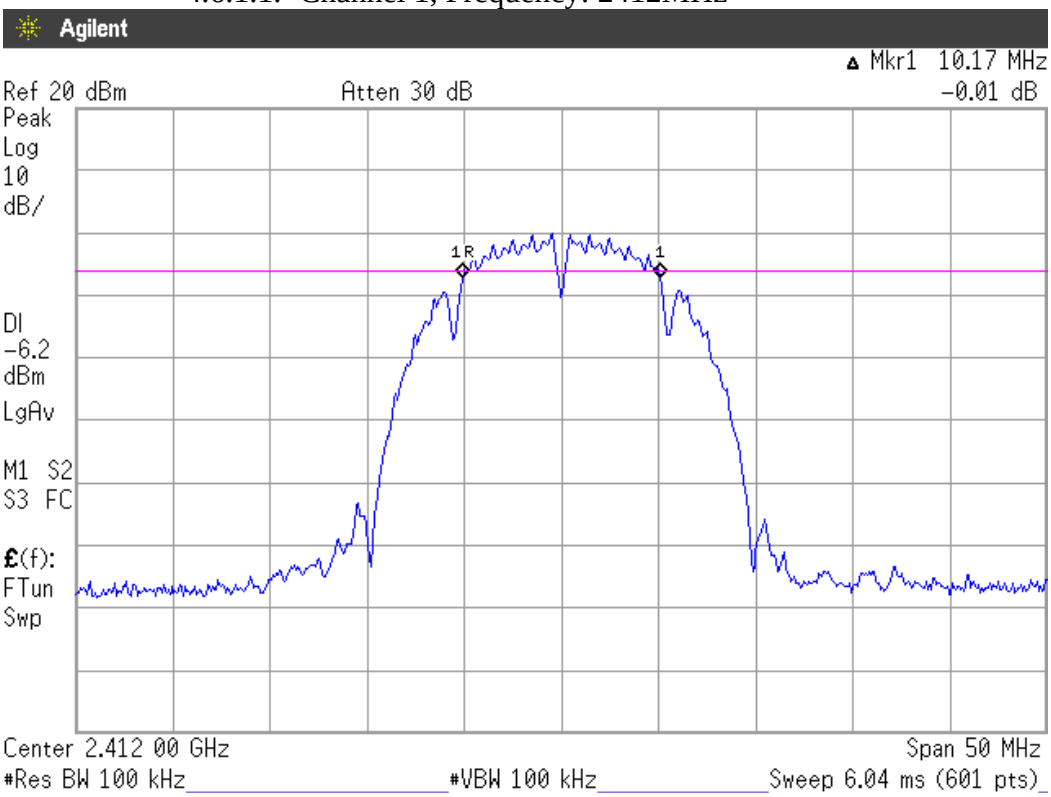
PASSED. All the test results are listed in next pages.

Test Date: Apr. 04, 2007 Temperature: 19 ℃ Humidity: 49 %

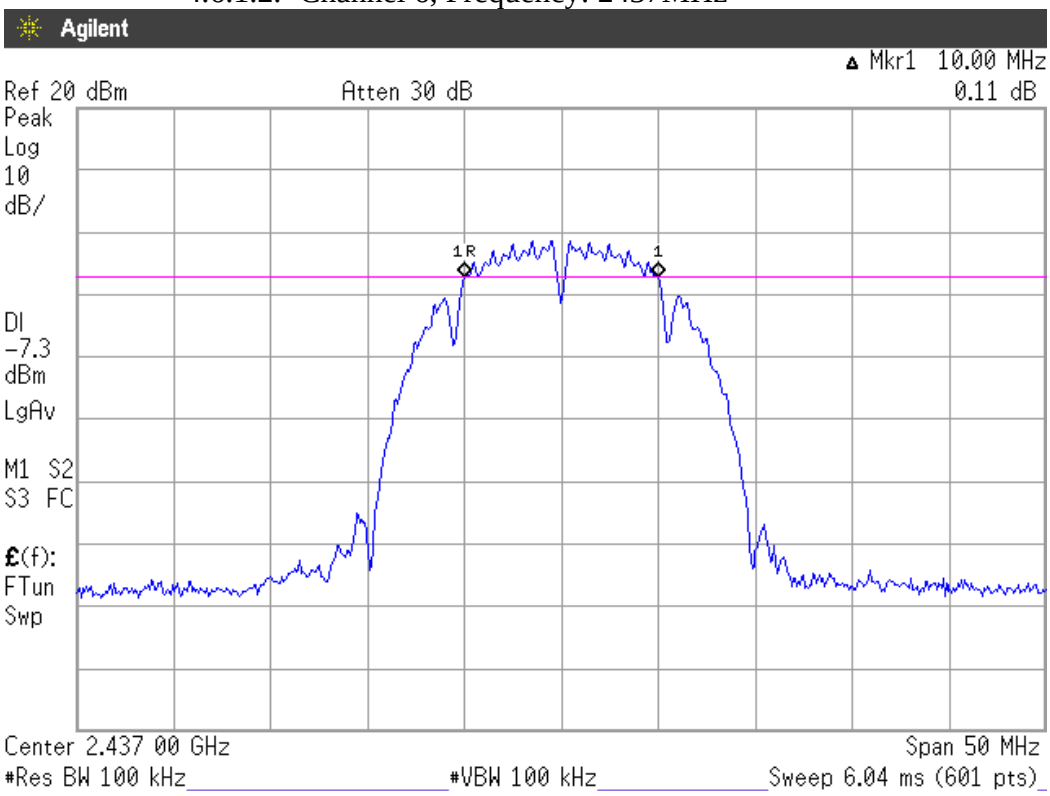
No.	Test Mode	Channel	Frequency	**6dB Bandwidth**
1.	WLAN (802.11b)	1	2412MHz	**10.17MHz**
2.		6	2437MHz	**10.00MHz**
3.		11	2462MHz	**10.17MHz**
4.	WLAN (802.11g)	1	2412MHz	**16.67MHz**
5.		6	2437MHz	**16.67MHz**
6.		11	2462MHz	**16.67MHz**

4.6.1. Test Mode: WLAN (802.11b)

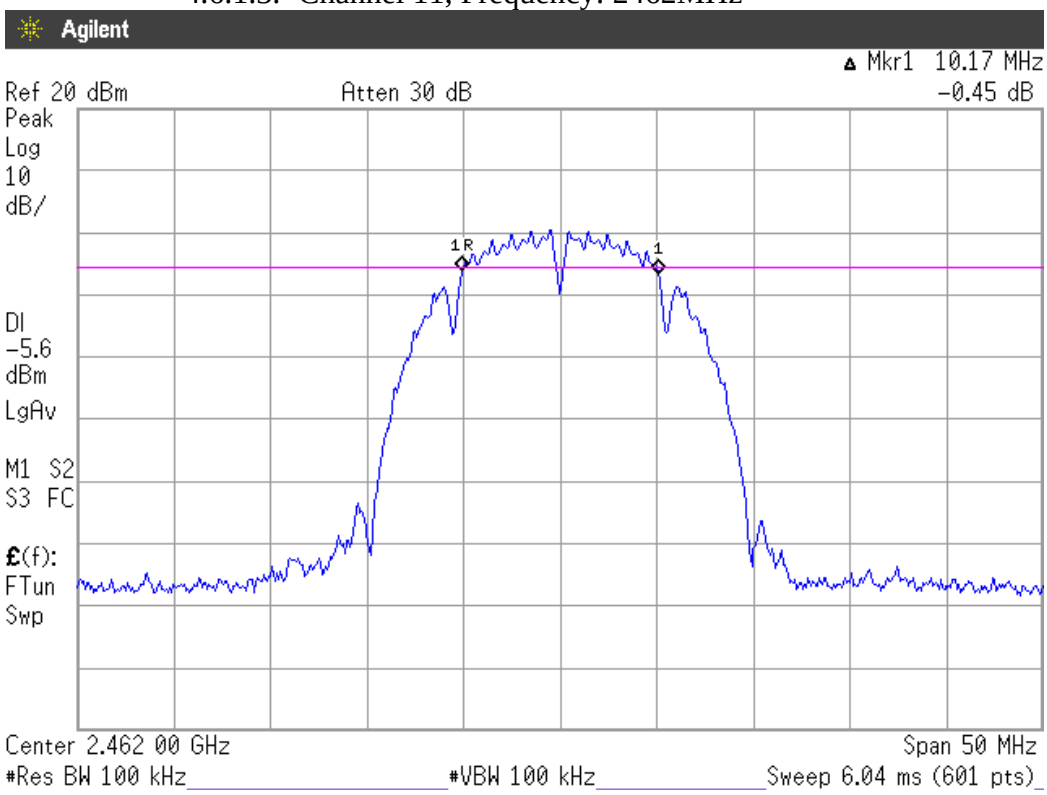
4.6.1.1. Channel 1, Frequency: 2412MHz



4.6.1.2. Channel 6, Frequency: 2437MHz

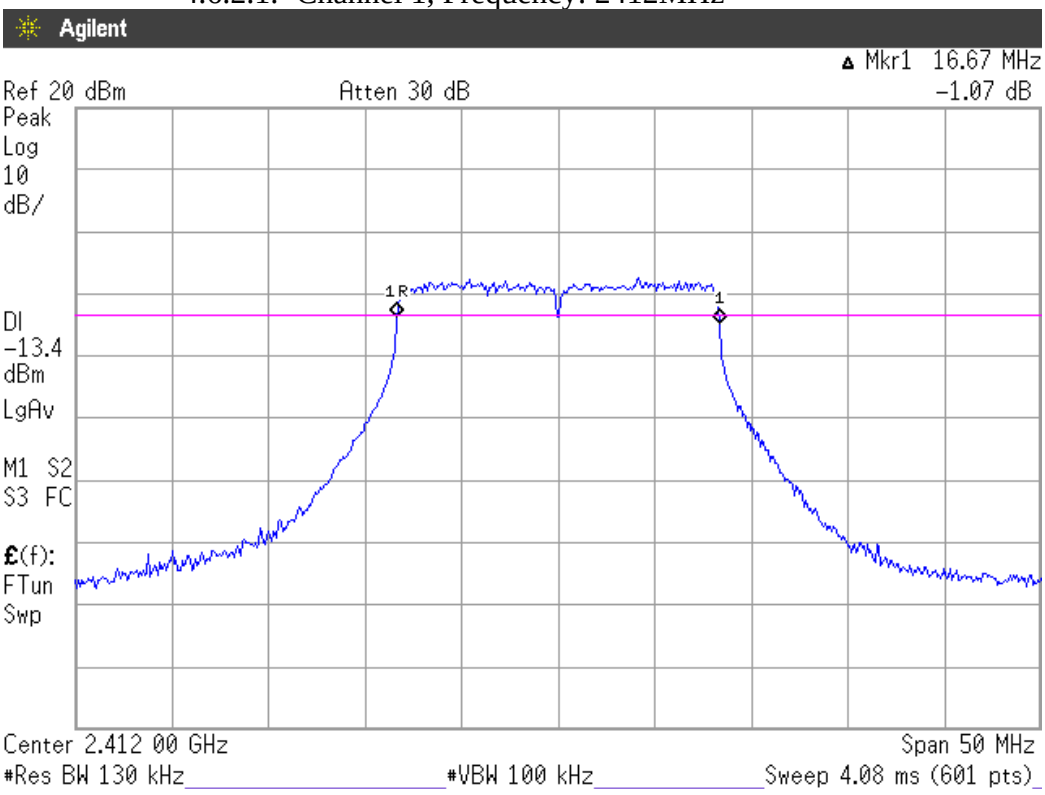


4.6.1.3. Channel 11, Frequency: 2462MHz

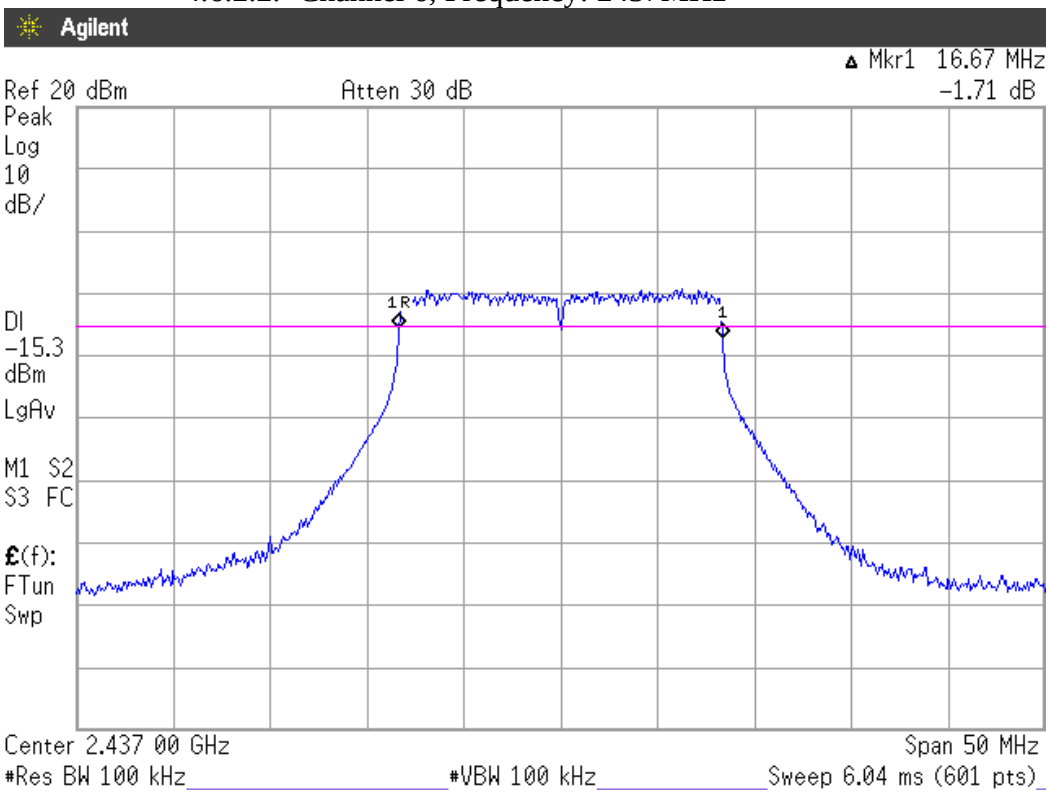


4.6.2. Test Mode: WLAN (802.11g)

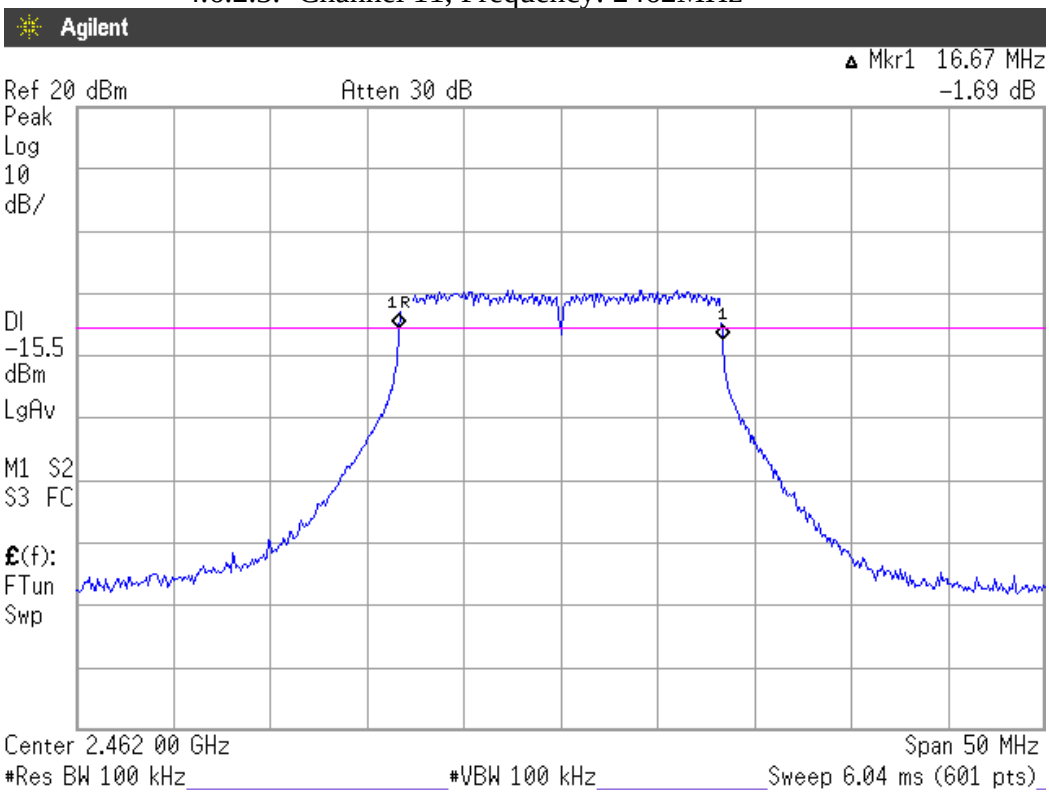
4.6.2.1. Channel 1, Frequency: 2412MHz



4.6.2.2. Channel 6, Frequency: 2437MHz



4.6.2.3. Channel 11, Frequency: 2462MHz



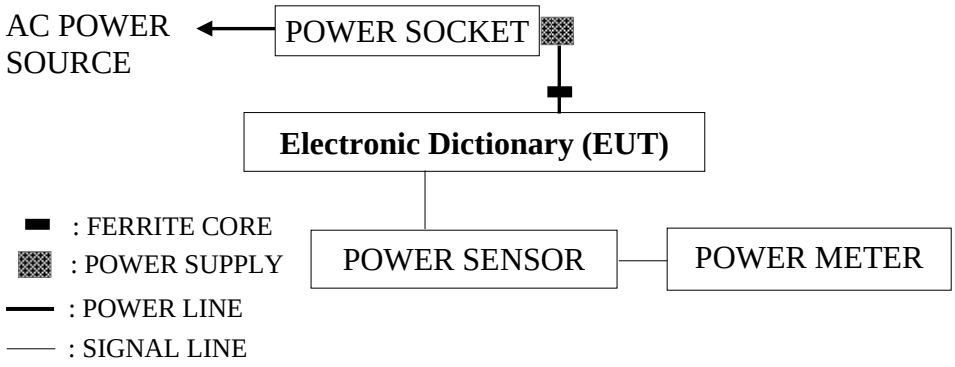
5. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

5.1.Test Equipment

The following test equipment was used during the maximum peak output power measurement：

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Antrisu	ML2487A	6K00005406	Jan. 10, 07’	Jan. 09, 08’
2.	Power Sensor	Antrisu	MA2491A	030873	Jan. 10, 07’	Jan. 09, 08’

5.2.Block Diagram of Test Setup



5.3.Specification Limits (§15.247(b)(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is: 1Watt. (30dBm)

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown on 5.2.

5.4.2.Turn on the power of all equipment.

5.4.3. Run the test program “MyLab Tool”, 802.11b data rate set at 1MB/sec. and 802.11g data rate set at 6MB/sec. during the testing.

5.5.Test Procedure

The RF output of EUT was connected to the power meter and sensor with 20MHz bandwidth that was designed to detect peak value automatically.

5.6.Test Results

PASSED. All the test results are listed in following page.

Test Date: Apr. 04, 2007 Temperature: 19 ℃ Humidity: 49 %

No.	Test Mode	Channel	Frequency	**Peak Output Power**	**Output Power (RMS)**	Limit
1.	WLAN (802.11b)	1	2412MHz	**14.25dBm**	**10.33dBm**	30dBm
2.		6	2437MHz	**14.01dBm**	**9.84dBm**	30dBm
3.		11	2462MHz	**14.58dBm**	**10.39dBm**	30dBm
4.	WLAN (802.11g)	1	2412MHz	**16.25dBm**	**12.04dBm**	30dBm
5.		6	2437MHz	**16.82dBm**	**12.63dBm**	30dBm
6.		11	2462MHz	**16.89dBm**	**12.66dBm**	30dBm

6. EMISSION LIMITATIONS MEASUREMENT

6.1.Test Equipment

The following test equipment was used during the emission limitations test：

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Monitor	Agilent	E4446A	US44300366	Aug. 11, 06’	Aug. 10. 07’

6.2.Block Diagram of Test Setup

The same as section.4.2

6.3.Specification Limits (§15.247(c))

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (See Section 15.205(c)).(※ This test result attaching to §3.6.3)

6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown on 6.2.

6.4.2.Turn on the power of all equipment.

6.4.3. Run the test program “MyLab Tool”, 802.11b data rate set at 1MB/sec. and 802.11g data rate set at 6MB/sec. during the testing.

6.5.Test Procedure

The RF output of EUT was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW.

6.6. Test Results

PASSED. The testing data was attached in the next pages.

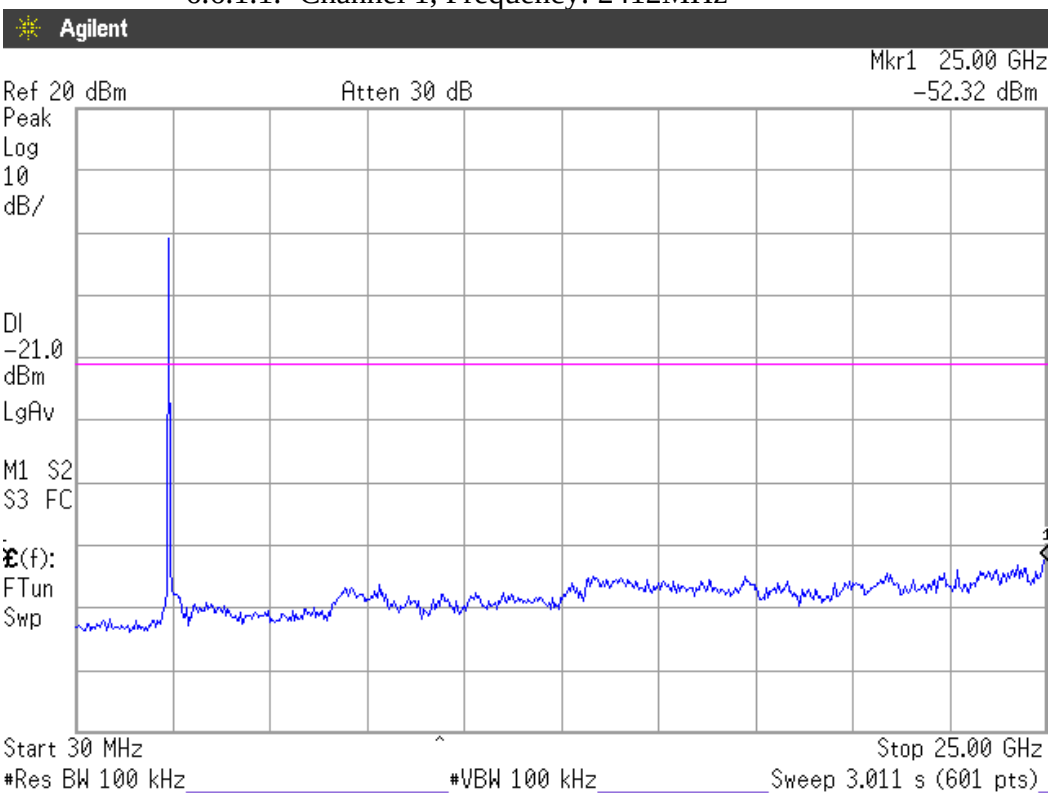
Test Date: Apr. 04, 2007 Temperature: 19 ℃ Humidity: 49 %

6.6.1. Test Mode: WLAN (802.11b)

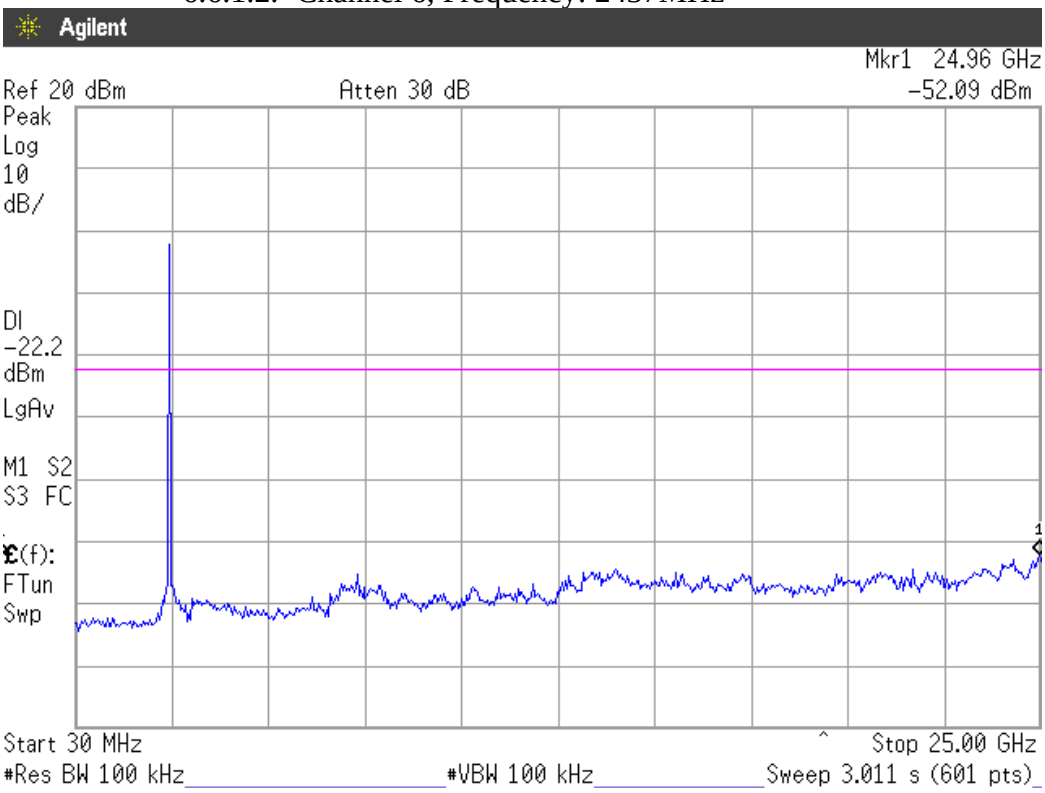
1. 2412MHz: During 30MHz~25GHz bandwidth. the max value is -52.32dBm of 25GHz that is lower than 20dB of primary channel.
2. 2437MHz: During 30MHz~25GHz bandwidth. the max value is -52.09dBm of 24.96GHz that is lower than 20dB of primary channel.
3. 2462MHz: During 30MHz~25GHz bandwidth. the max value is -50.64dBm of 24.96GHz that is lower than 20dB of primary channel.

Note: The peak above the limit line is the carrier frequency.

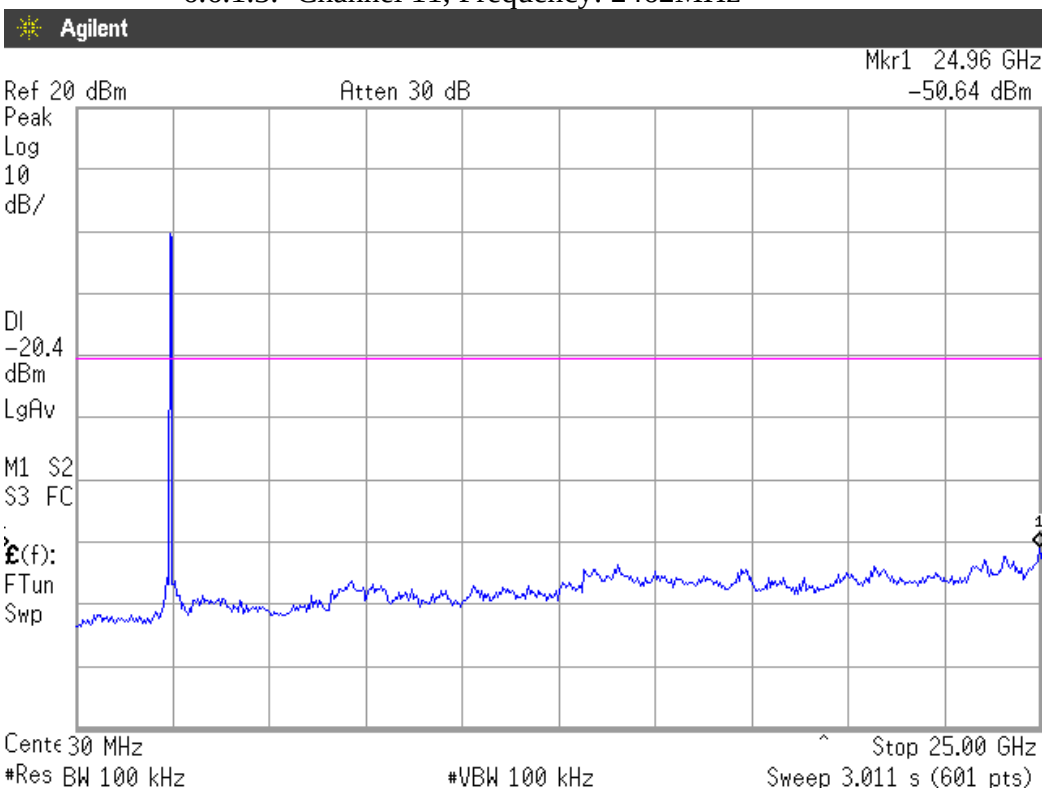
6.6.1.1. Channel 1, Frequency: 2412MHz



6.6.1.2. Channel 6, Frequency: 2437MHz



6.6.1.3. Channel 11, Frequency: 2462MHz

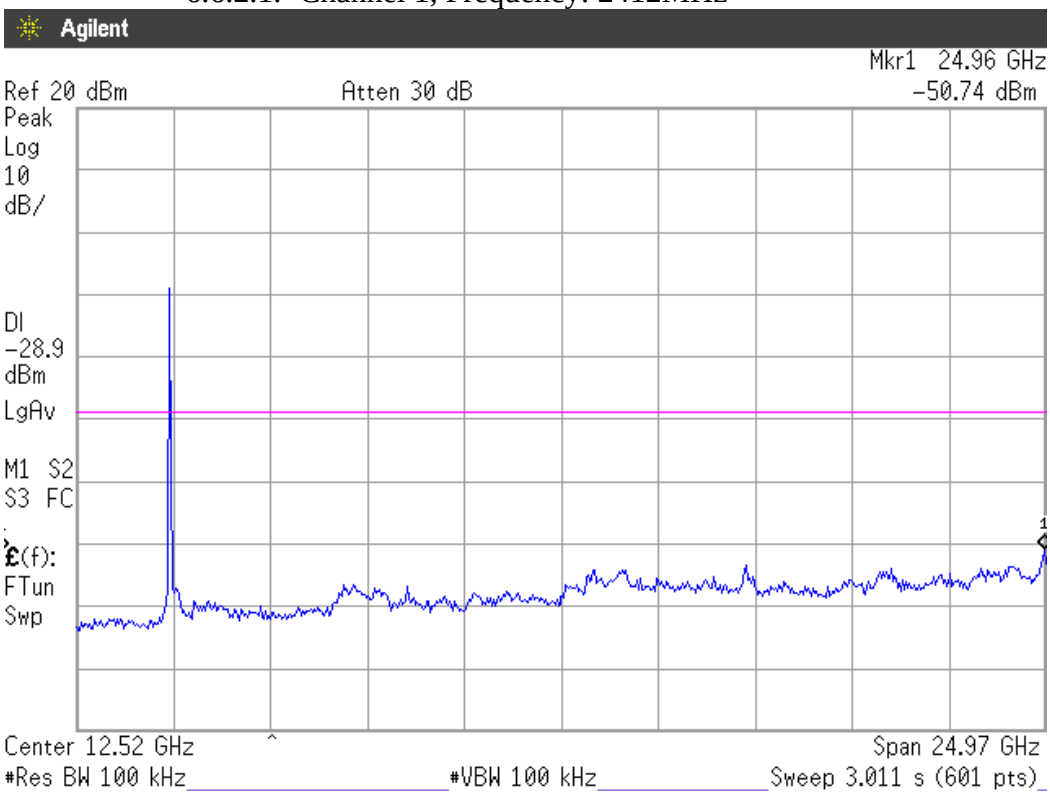


6.6.2. Test Mode: WLAN (802.11g)

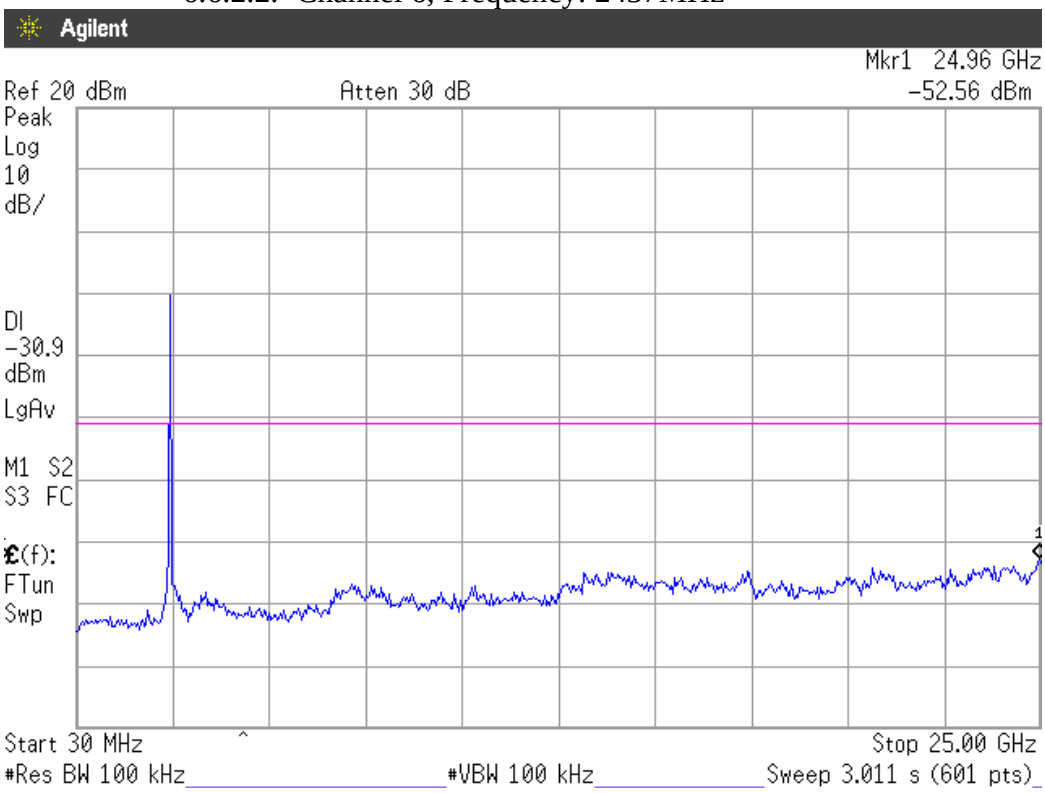
1. 2412MHz: During 30MHz~25GHz bandwidth. the max value is -50.74dBm of 24.96GHz that is lower than 20dB of primary channel.
2. 2437MHz: During 30MHz~25GHz bandwidth. the max value is -52.56dBm of 24.96GHz that is lower than 20dB of primary channel.
3. 2462MHz: During 30MHz~25GHz bandwidth. the max value is -51.65dBm of 24.96GHz that is lower than 20dB of primary channel.

Note: The peak above the limit line is the carrier frequency.

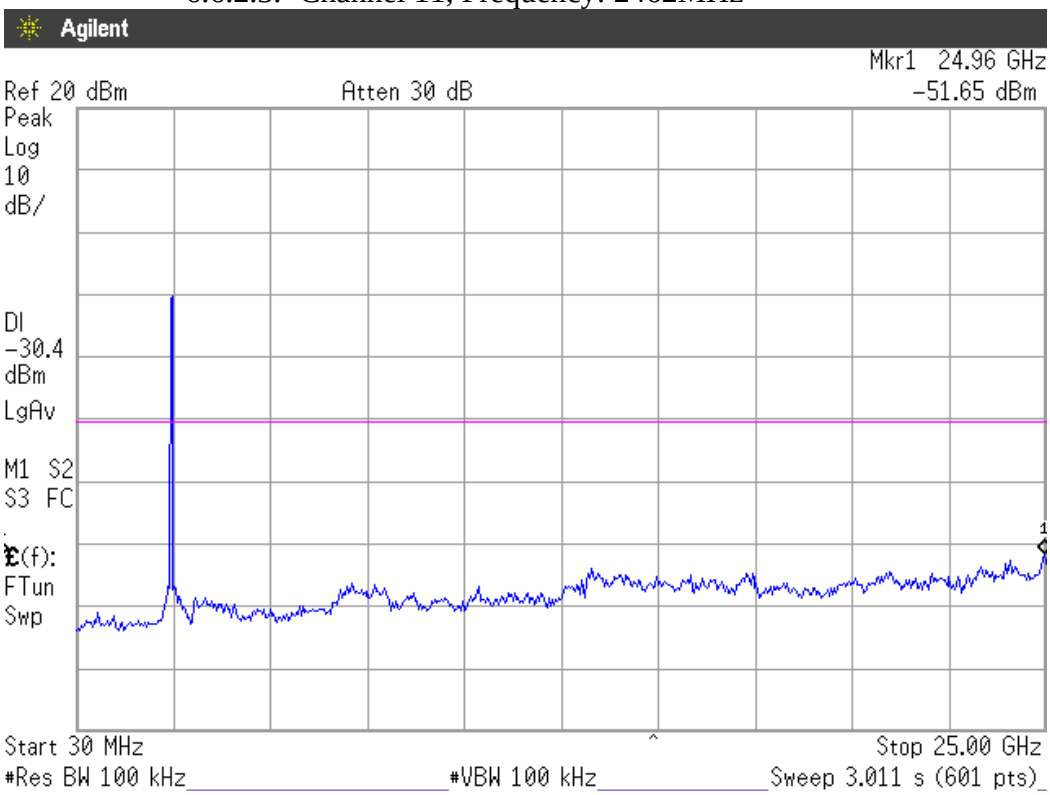
6.6.2.1. Channel 1, Frequency: 2412MHz



6.6.2.2. Channel 6, Frequency: 2437MHz



6.6.2.3. Channel 11, Frequency: 2462MHz



7. BAND EDGES MEASUREMENT

7.1.Test Equipment

The following test equipment was used during the band edges measurement：

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Monitor	Agilent	E4446A	US44300366	Aug. 11, 06’	Aug. 10. 07’

7.2.Block Diagram of Test Setup

The same as section.4.2.

7.3.Specification Limits (§15.247(c))

The highest level should be at least 20 dB below that in the 100kHz bandwidth.

7.4.Operating Condition of EUT

7.4.1.Setup the EUT and simulator as shown on 7.2.

7.4.2.Turn on the power of all equipment.

7.4.3. Run the test program “MyLab Tool”, 802.11b data rate set at 1MB/sec. and 802.11g data rate set at 6MB/sec. during the testing.

7.5.Test Procedure

The RF output of EUT was connected to the spectrum analyzer. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge.

7.6.Test Results

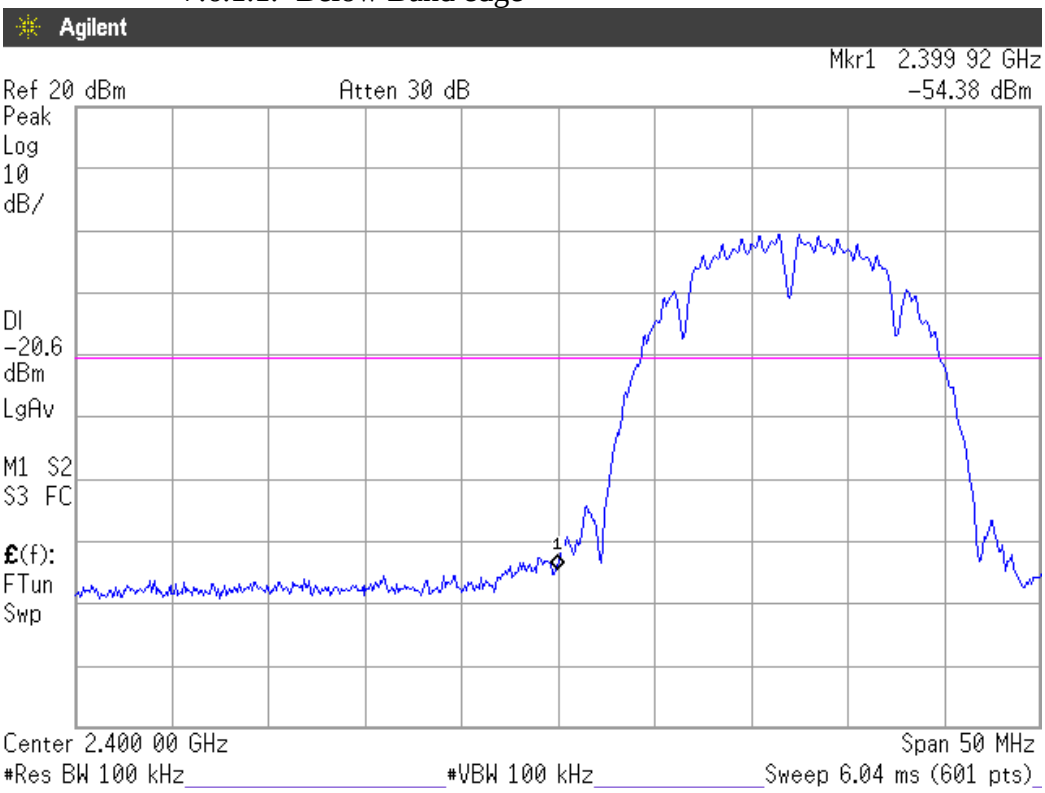
PASSED. All the test results are listed in next page.

Test Date: Apr. 04, 2007 Temperature: 19 ℃ Humidity: 49 %

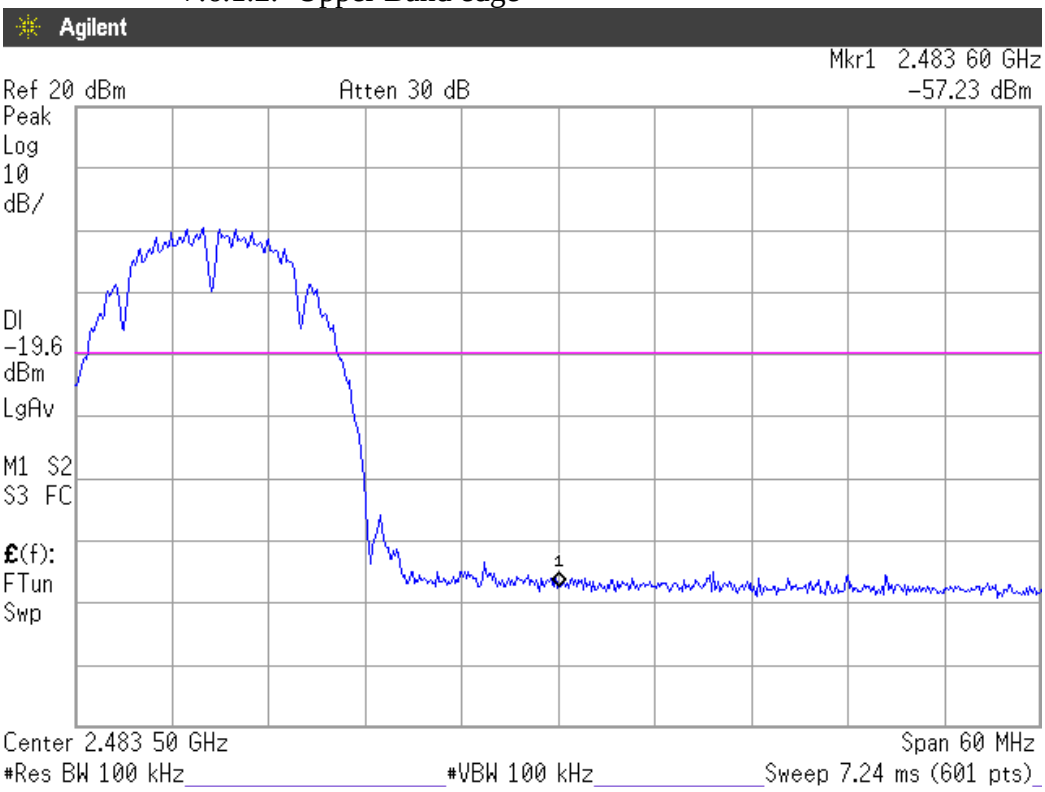
7.6.1. Test Mode: WLAN (802.11b)

1. Upper Band edge: The highest emission level is -54.38dBm on 2.39992GHz。
2. Below Band edge : The highest emission level is -57.23dBm on 2.48360GHz。

7.6.1.1. Below Band edge



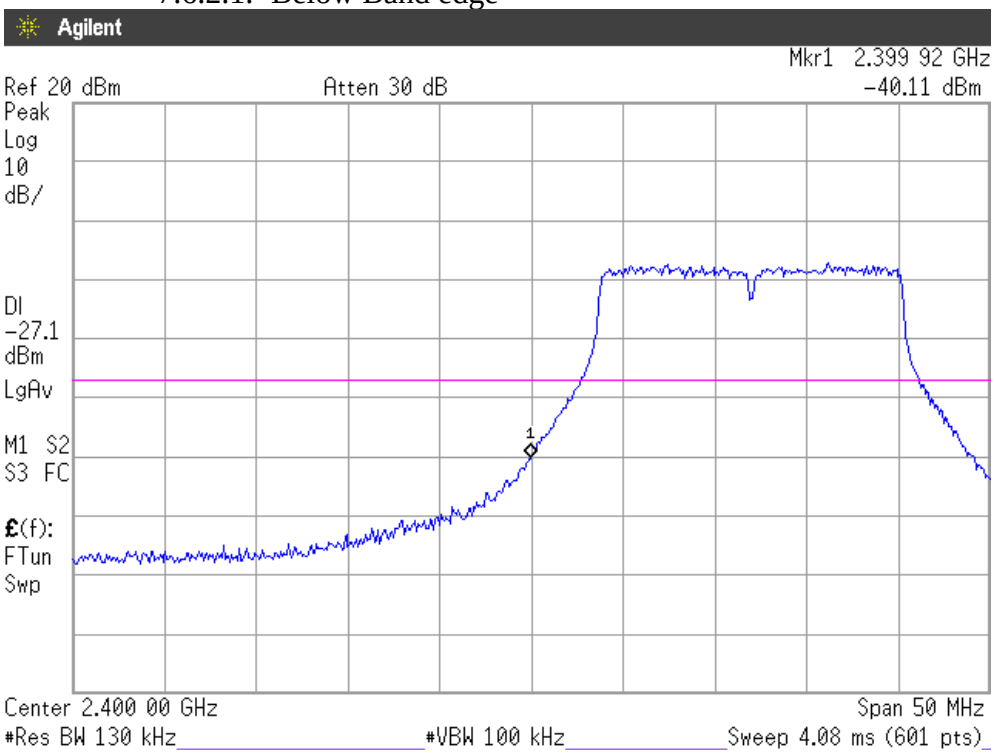
7.6.1.2. Upper Band edge



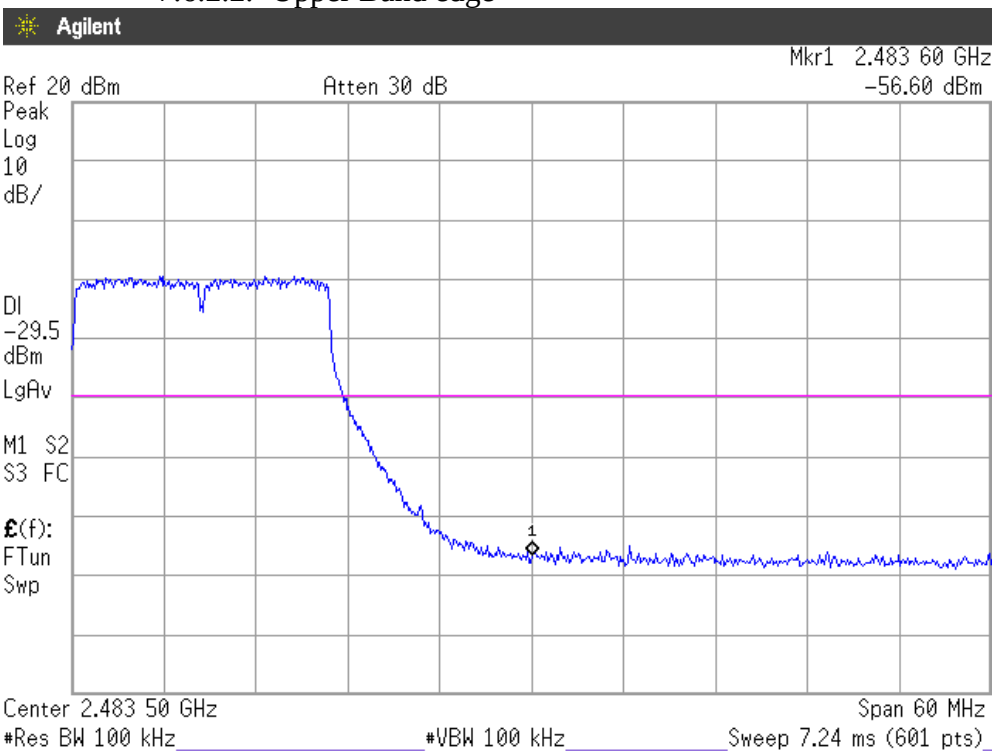
7.6.2. Test Mode: WLAN (802.11g)

1. Upper Band edge: The highest emission level is -40.11dBm on 2.39992GHz。
2. Below Band edge : The highest emission level is -56.60 dBm on 2.48360GHz。

7.6.2.1. Below Band edge



7.6.2.2. Upper Band edge



8. POWER SPECTRAL DENSITY MEASUREMENT

8.1.Test Equipment

The following test equipment was used during the power spectral density measurement：

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Monitor	Agilent	E4446A	US44300366	Aug. 11, 06’	Aug. 10. 07’

8.2.Block Diagram of Test Setup

The same as section.4.2.

8.3.Specification Limits (§15.247(d))

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

8.4.Operating Condition of EUT

8.4.1.Setup the EUT and simulator as shown on 8.2.

8.4.2.Turn on the power of all equipment.

8.4.3. Run the test program “MyLab Tool”, 802.11b data rate set at 1MB/sec. and 802.11g data rate set at 6MB/sec. during the testing.

8.5.Test Procedure

The RF output of EUT was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, span 300kHz set sweep time = span/3kHz.

8.6.Test Results

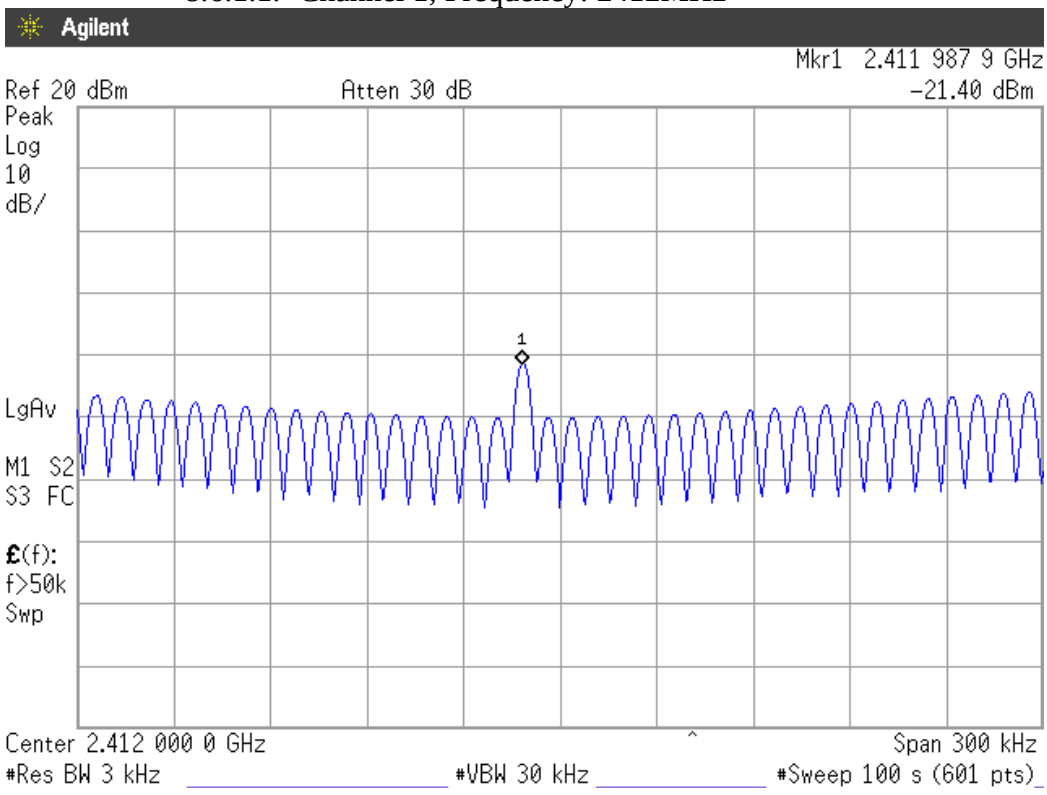
PASSED. All the test results are attached in next pages.

Test Date: Apr. 04, 2007 Temperature: 19 ℃ Humidity: 49 %

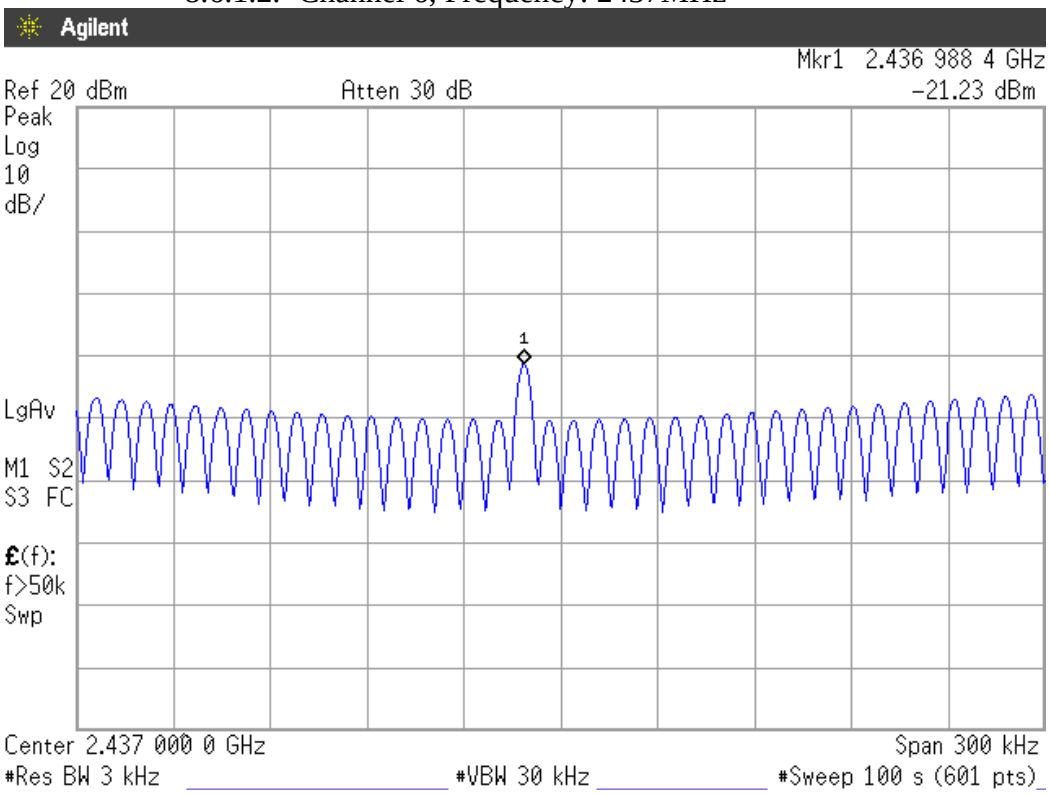
No.	Test Mode	Channel	Frequency	**Power Spectral Density**	Limit
1.	WLAN (802.11b)	1	2412MHz	**-21.40dBm**	8dBm
2.		6	2437MHz	**-21.23dBm**	8dBm
3.		11	2462MHz	**-21.25dBm**	8dBm
4.	WLAN (802.11g)	1	2412MHz	**-19.90dBm**	8dBm
5.		6	2437MHz	**-19.60dBm**	8dBm
6.		11	2462MHz	**-19.10dBm**	8dBm

8.6.1. Test Mode: WLAN (802.11b)

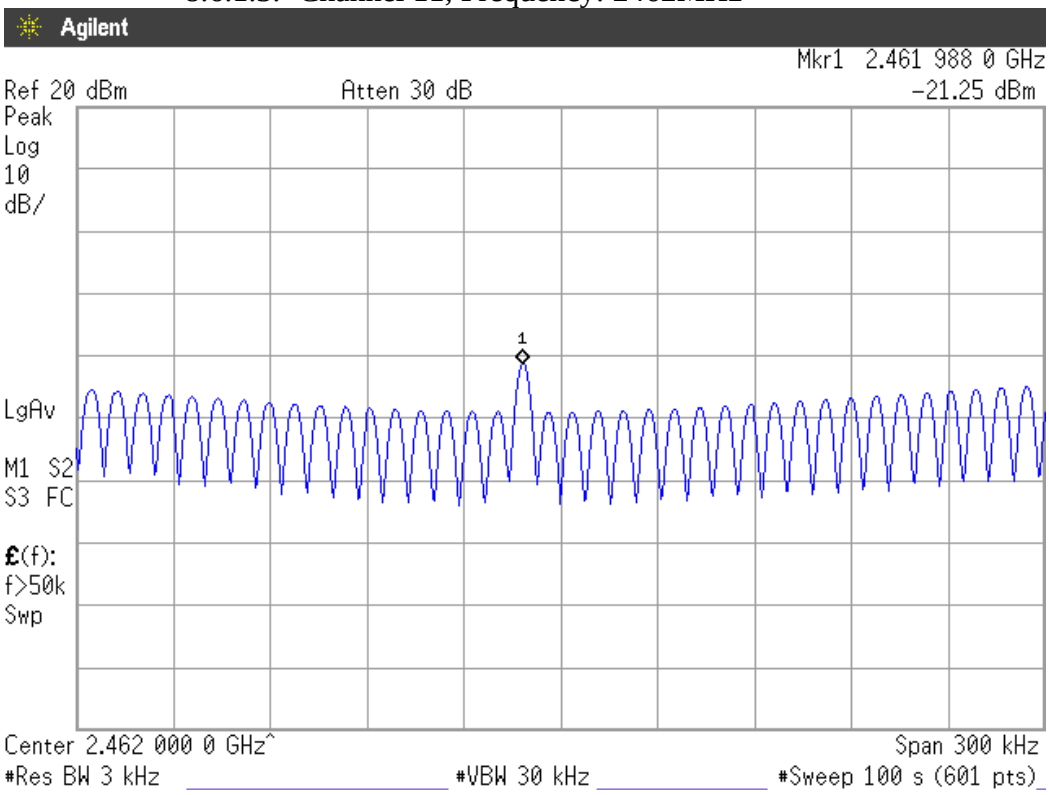
8.6.1.1. Channel 1, Frequency: 2412MHz



8.6.1.2. Channel 6, Frequency: 2437MHz

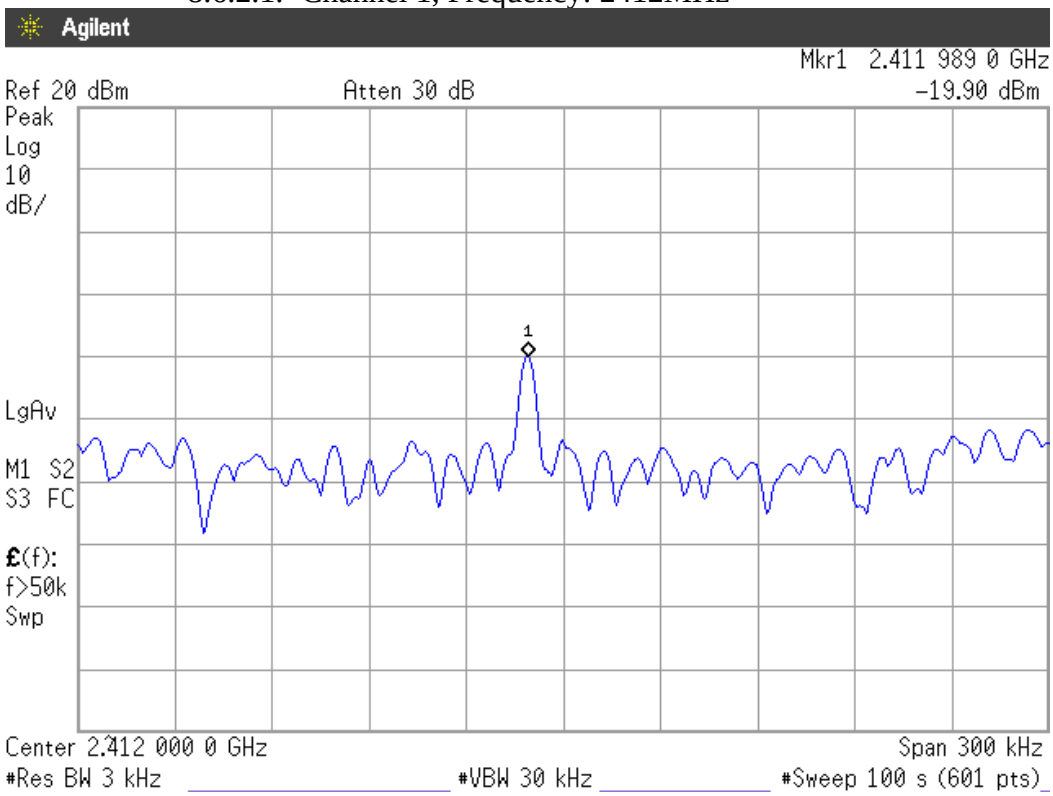


8.6.1.3. Channel 11, Frequency: 2462MHz

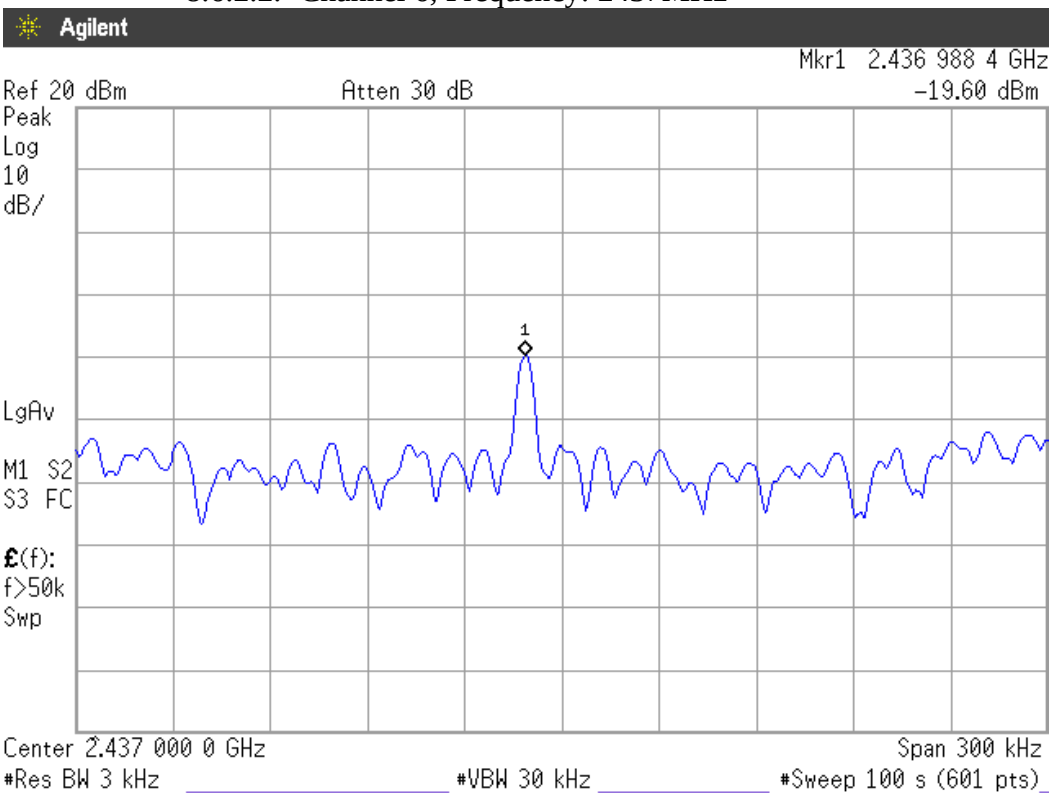


8.6.2. Test Mode: WLAN (802.11g)

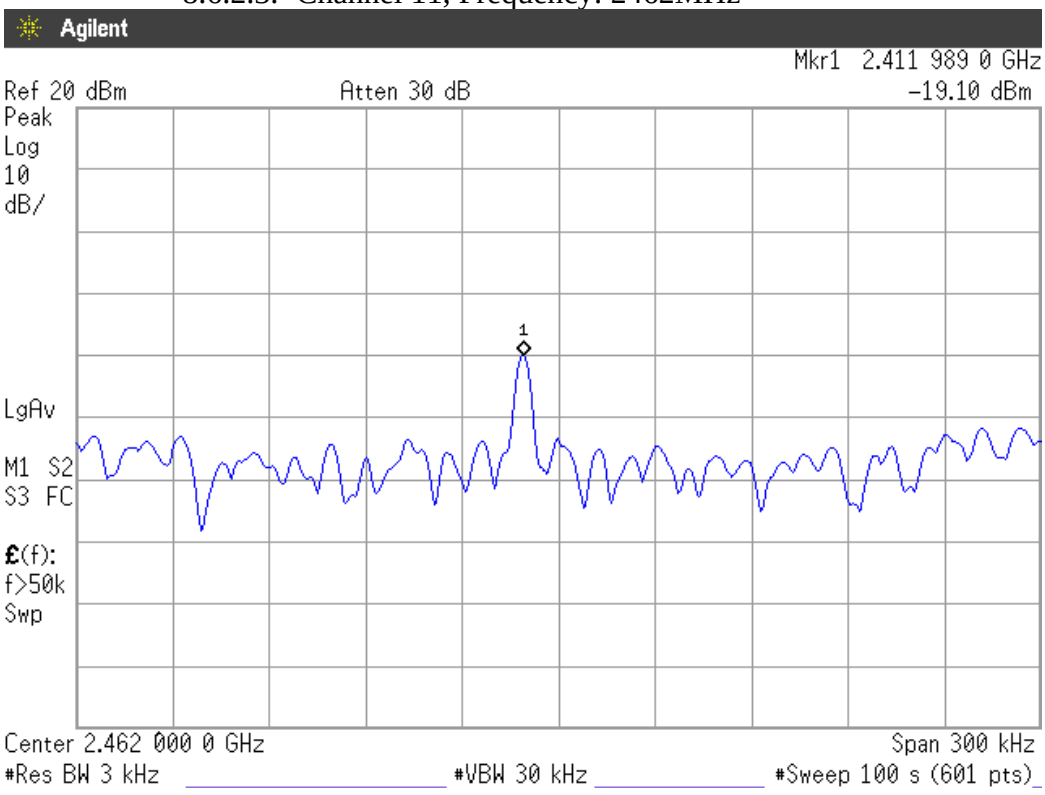
8.6.2.1. Channel 1, Frequency: 2412MHz



8.6.2.2. Channel 6, Frequency: 2437MHz



8.6.2.3. Channel 11, Frequency: 2462MHz



9. DEVIATION TO TEST SPECIFICATIONS

【NONE】

10. PHOTOGRAPHS

10.1. Photos of Powerline Conducted Emission Measurement

FRONT VIEW OF CONDUCTED MEASUREMENT

BACK VIEW OF CONDUCTED MEASUREMENT

10.2.Photos of Radiated Measurement at Semi-Anechoic Chamber

10.2.1. Frequency Range 30MHz-1GHz

FRONT VIEW OF RADIATED MEASUREMENT

BACK VIEW OF RADIATED MEASUREMENT

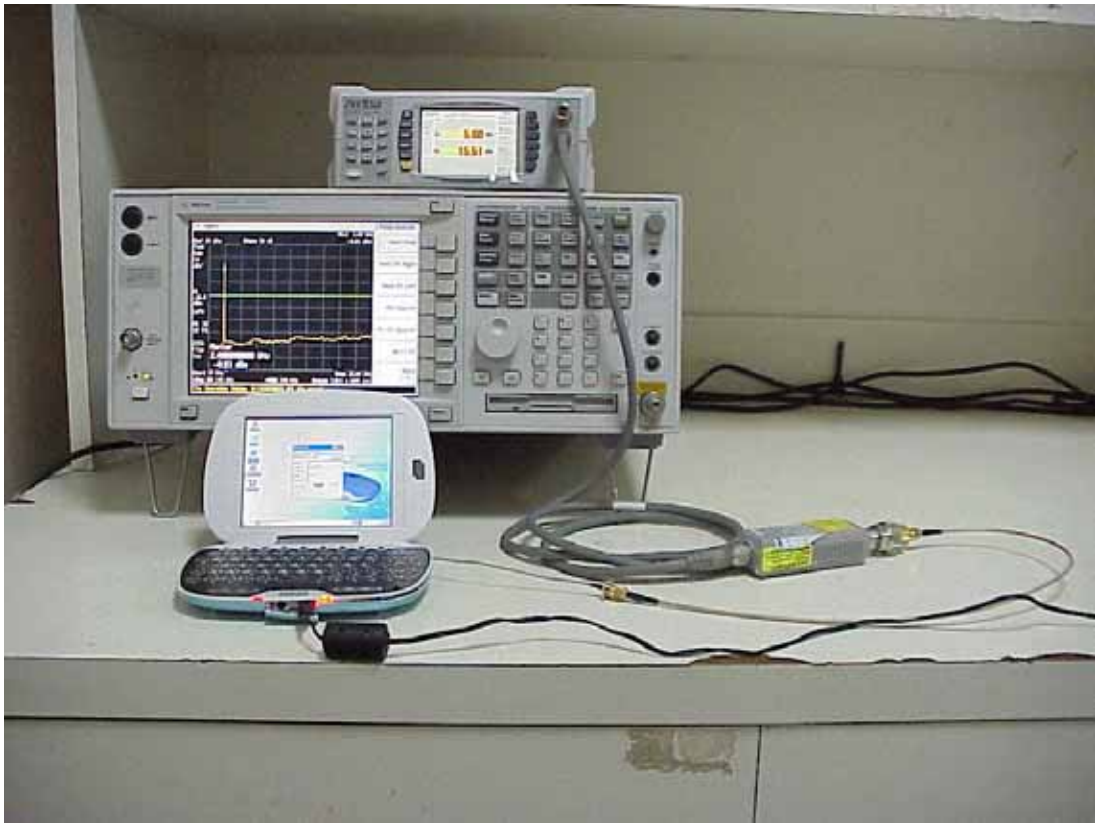
10.2.2. Frequency Range Above 1GHz

FRONT VIEW OF RADIATED MEASUREMENT

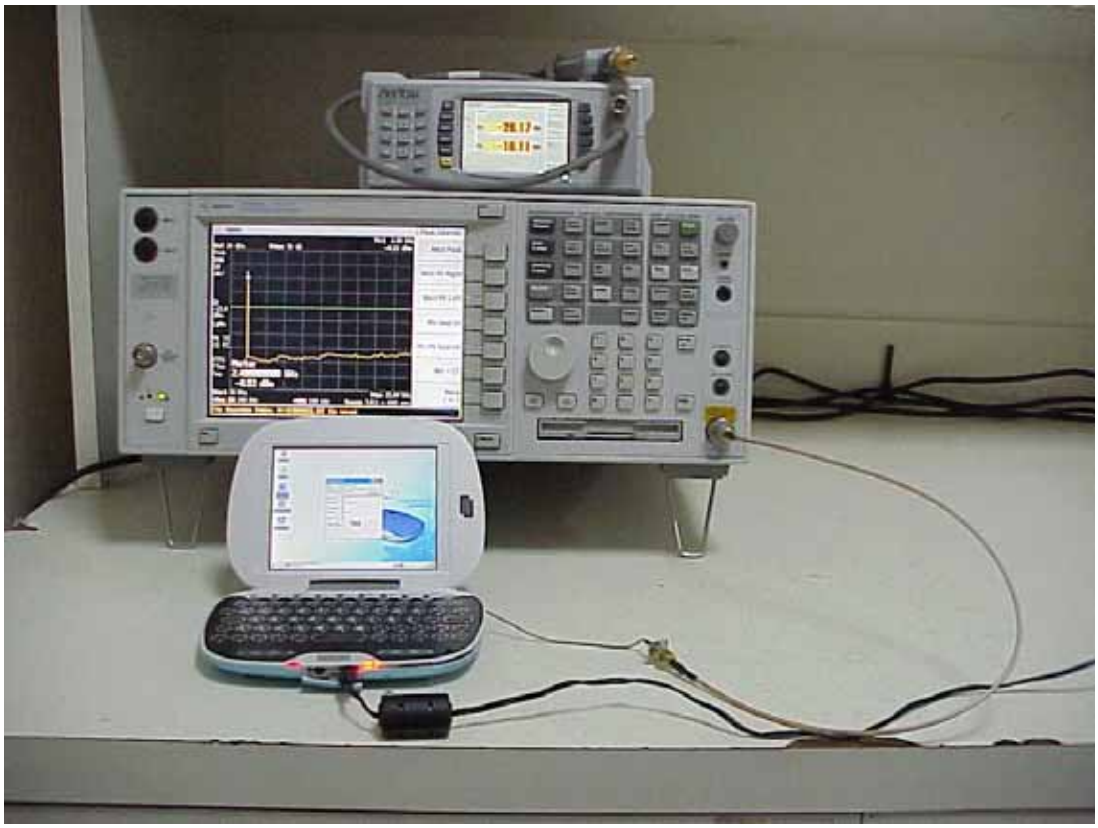
BACK VIEW OF RADIATED MEASUREMENT

10.3.Photo of 6dB Bandwidth Measurement (Conducted)

10.4.Photo of Maximum Peak Output Power Measurement (Conducted)



10.5.Photo of Emission Limitations Measurement (Conducted)



10.6.Photo of Band Edges Measurement (Conducted)

10.7.Photo of Power Spectral Density Measurement (Conducted)

APPENDIX

(Radiated Emission Measurement for Frequency Range 2680MHz-18000MHz)

No.	Test Mode and Frequency			Reference Test Data No.	
				Horizontal	Vertical
1.	WLAN (802.11b)	Transmitting	2412MHz (CH1)	# 2, #3	# 1, #4
2.			2437MHz (CH6)	# 1, #4	# 2, #3
3.			2462MHz (CH11)	# 2, #3	# 1, #4
4.		Receiver	2437MHz (CH6)	# 1, #4	# 2, #3
5.	WLAN (802.11g)	Transmitting	2412MHz (CH1)	# 1, #4	# 2, #3
6.			2437MHz (CH6)	# 2, #3	# 1, #4
7.			2462MHz (CH11)	# 1, #4	# 2, #3
8.		Receiver	2437MHz (CH6)	# 2, #4	# 1, #3

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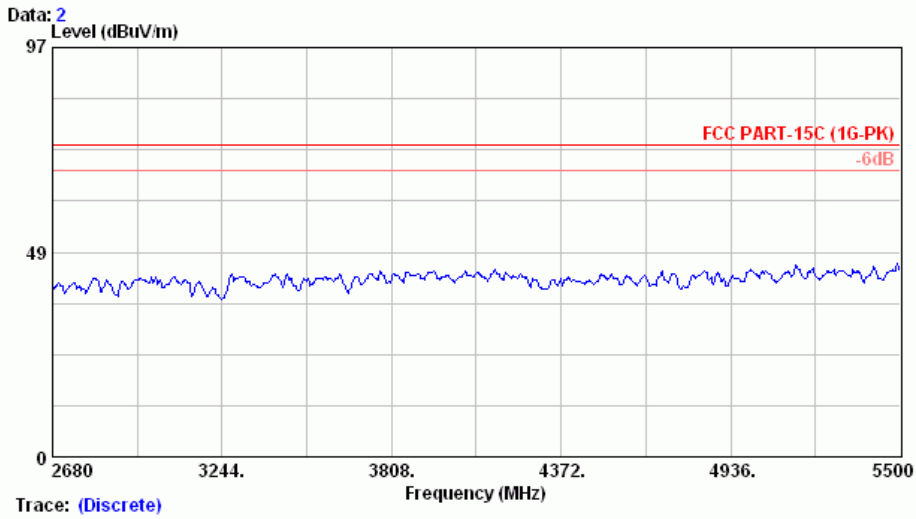


```
Site no.      : A/C Chamber                  Data no.   : 2
Dis. / Ant.   : 3m   3115                    Ant. pol.  : HORIZONTAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(802.11b)
```

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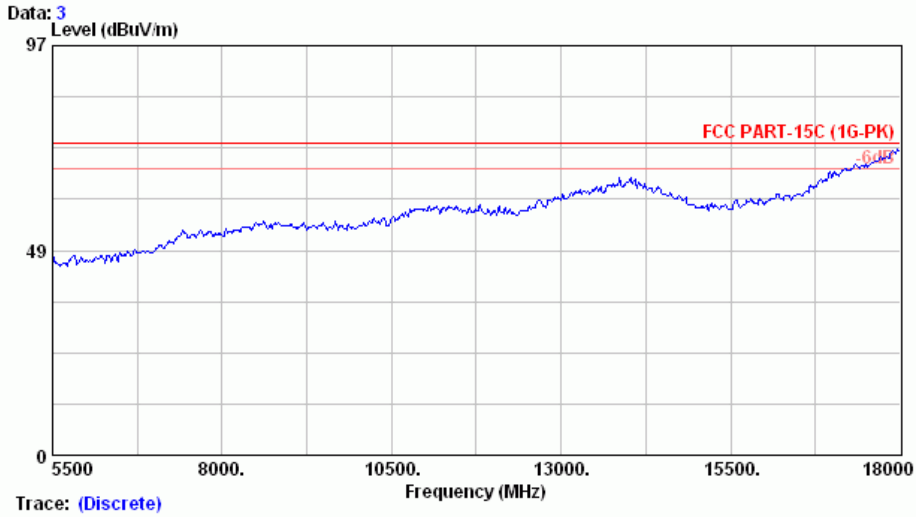


```
Site no.      : A/C Chamber                  Data no.   : 3
Dis. / Ant.   : 3m   3115                    Ant. pol.  : HORIZONTAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(802.11b)
```

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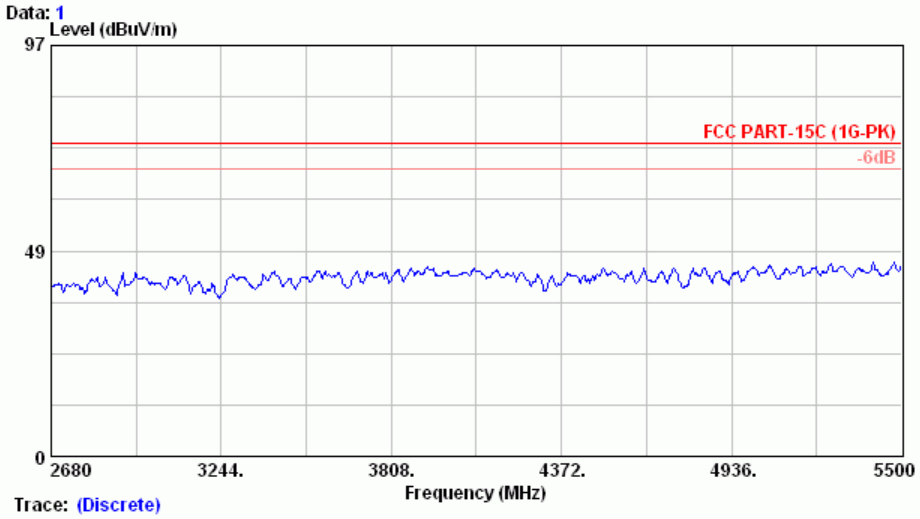

Trace: (Discrete)

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Site no.      : A/C Chamber                  Data no.   : 1
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(802.11b)
```

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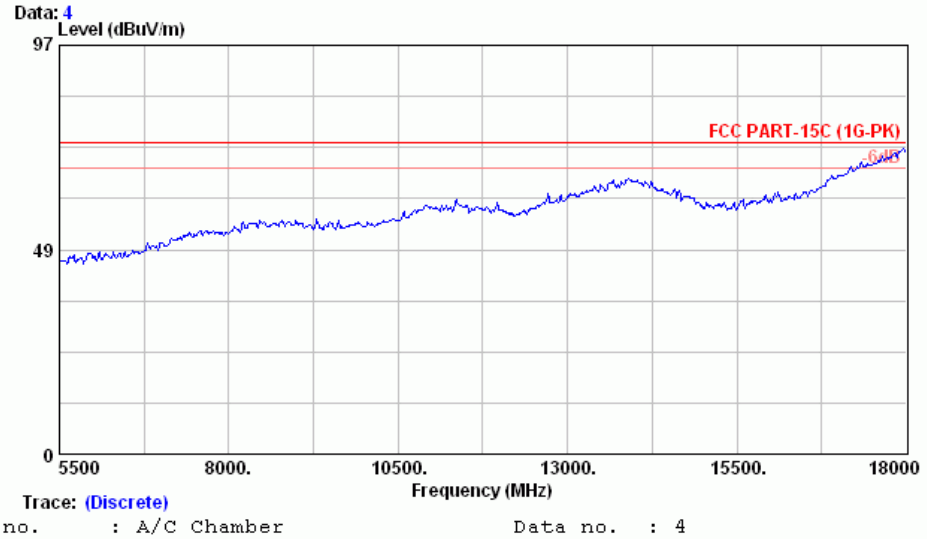

Trace: (Discrete)

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Site no.      : A/C Chamber                  Data no.   : 4
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(802.11b)
```

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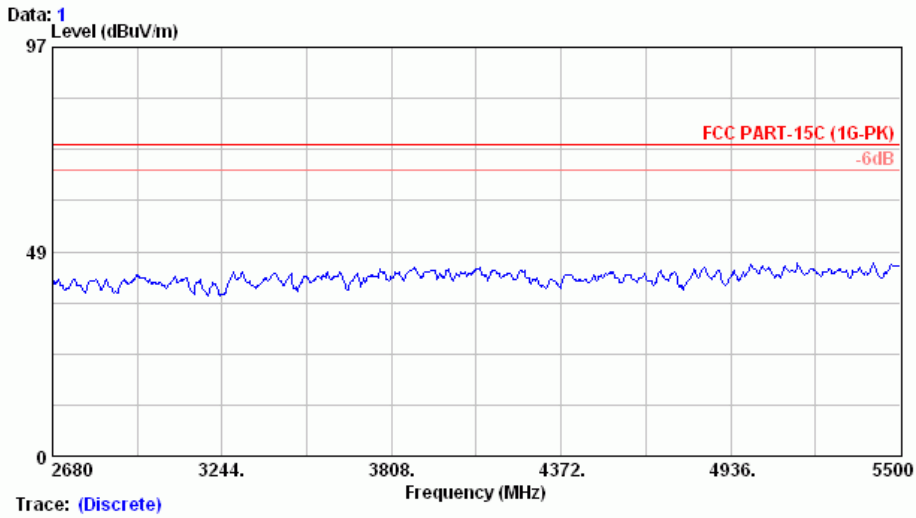

Site no.	: A/C Chamber	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2437(802.11b)		

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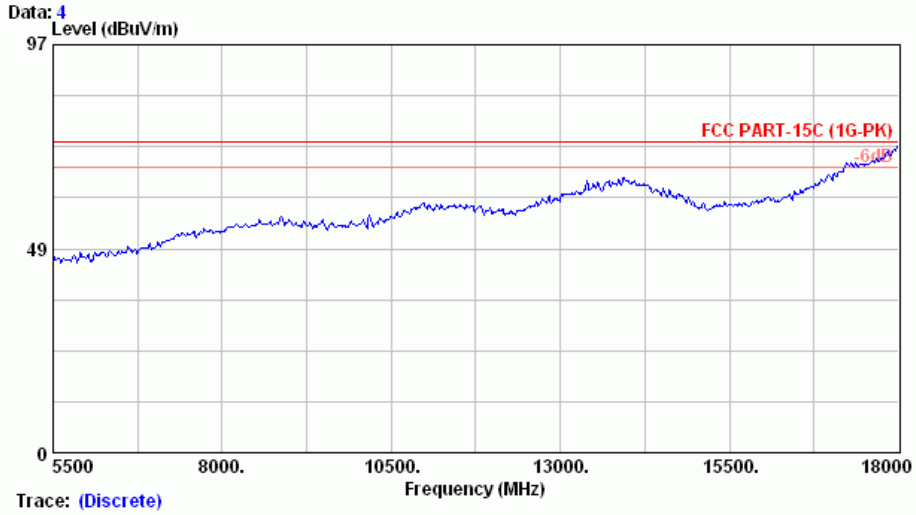

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2437(802.11b)		

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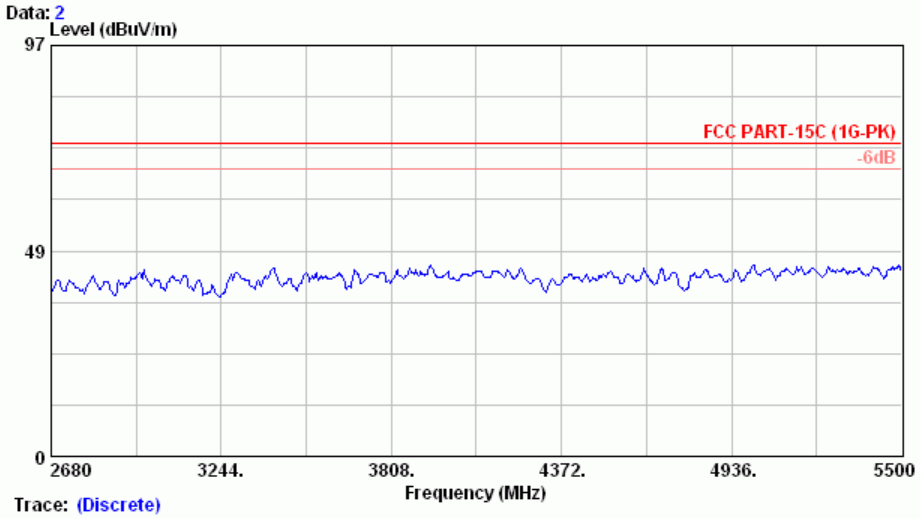

Trace: (Discrete)

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Site no.      : A/C Chamber                  Data no.   : 2
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2437(802.11b)
```

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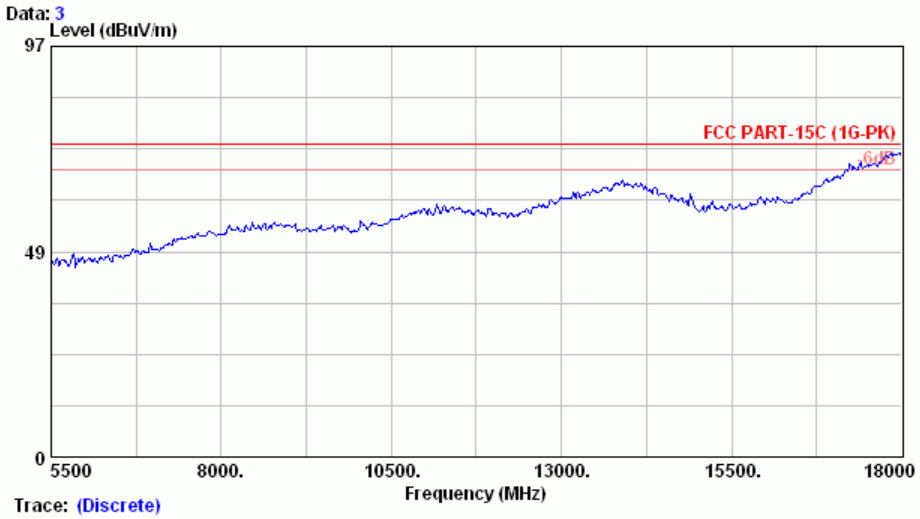

Trace: (Discrete)

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Site no.      : A/C Chamber                  Data no.   : 3
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2437(802.11b)
```

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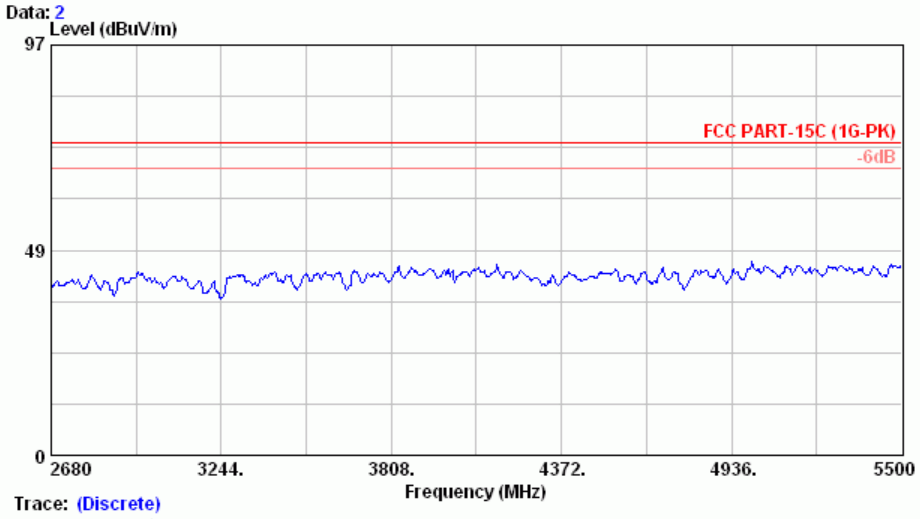

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 2
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Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(802.11b)		

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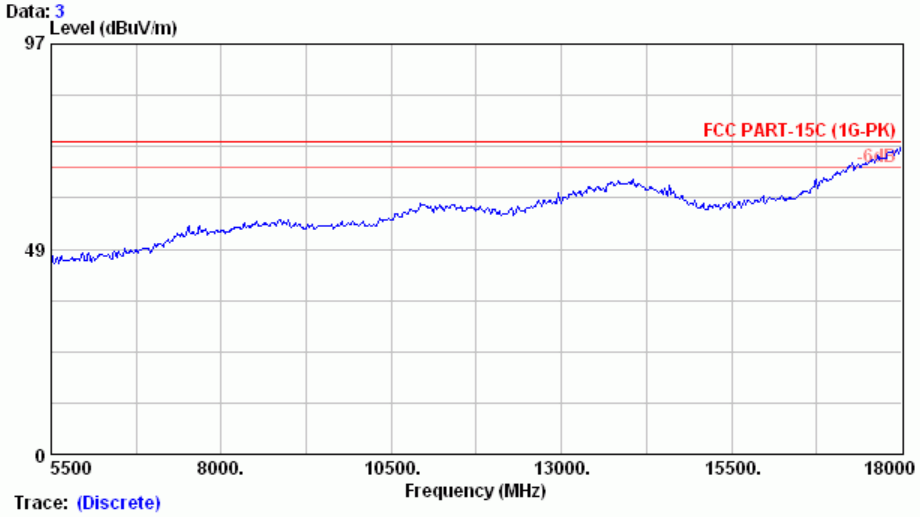

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 3
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(802.11b)		

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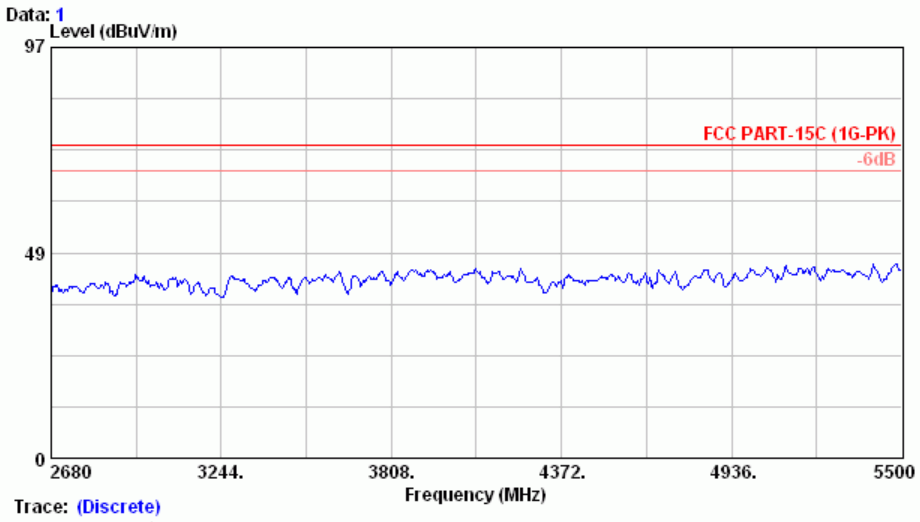

Trace: (Discrete)

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Site no.      : A/C Chamber                  Data no.   : 1
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2462(802.11b)
```

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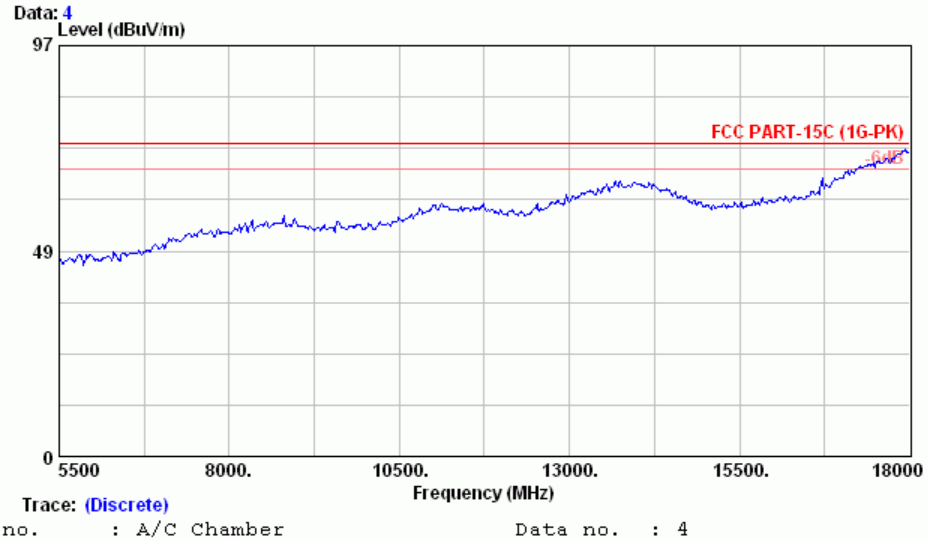
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

```
Site no.      : A/C Chamber                  Data no.   : 4
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2462(802.11b)
```

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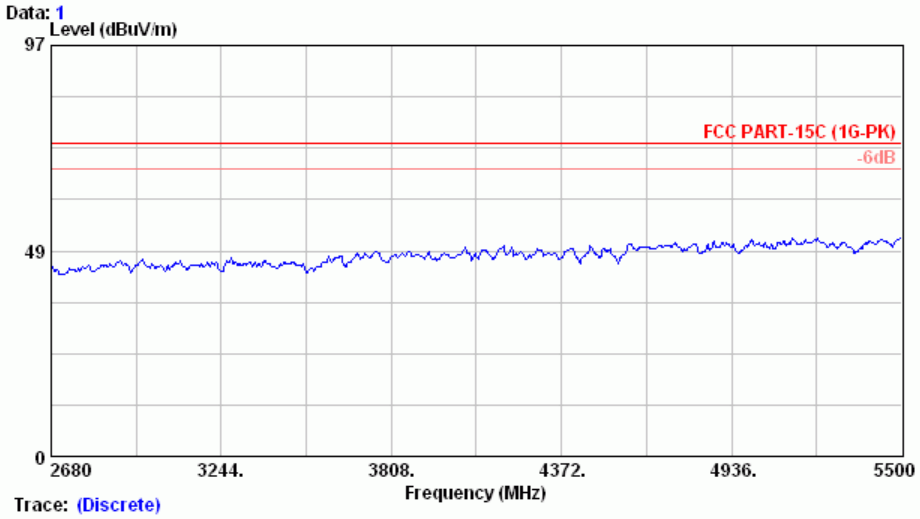

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2437(802.11b)		

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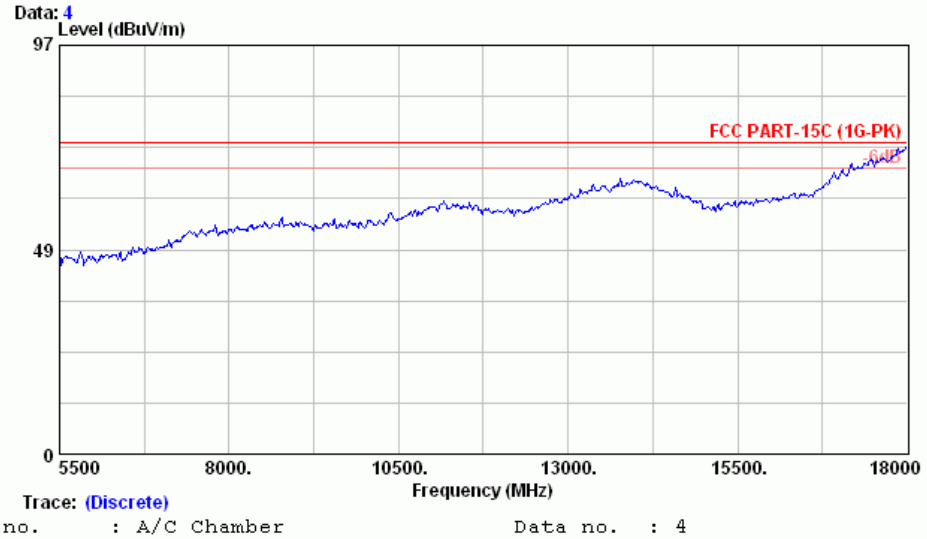

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2437(802.11b)		

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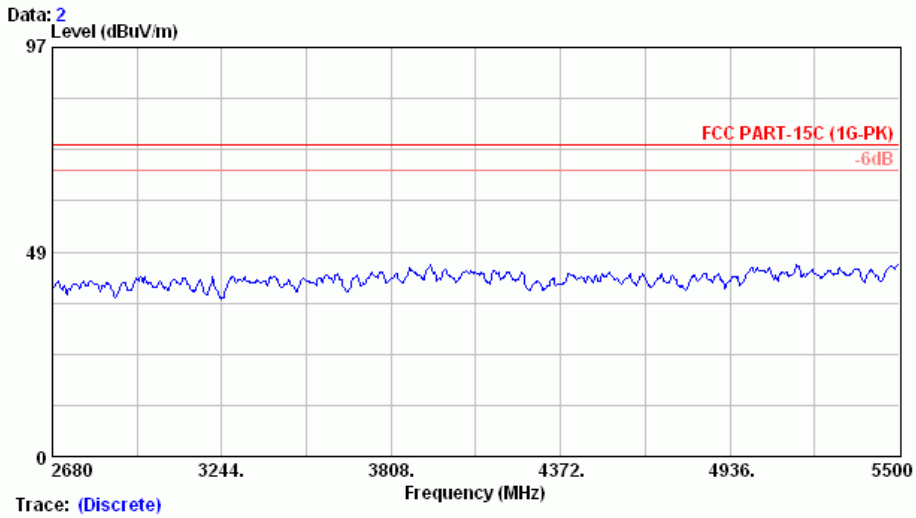

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 2
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2437(802.11b)		

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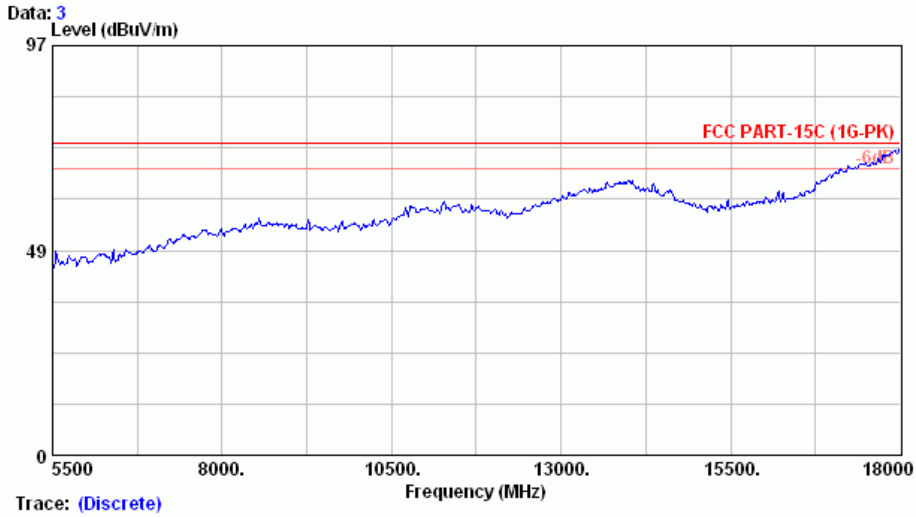

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 3
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2437(802.11b)		

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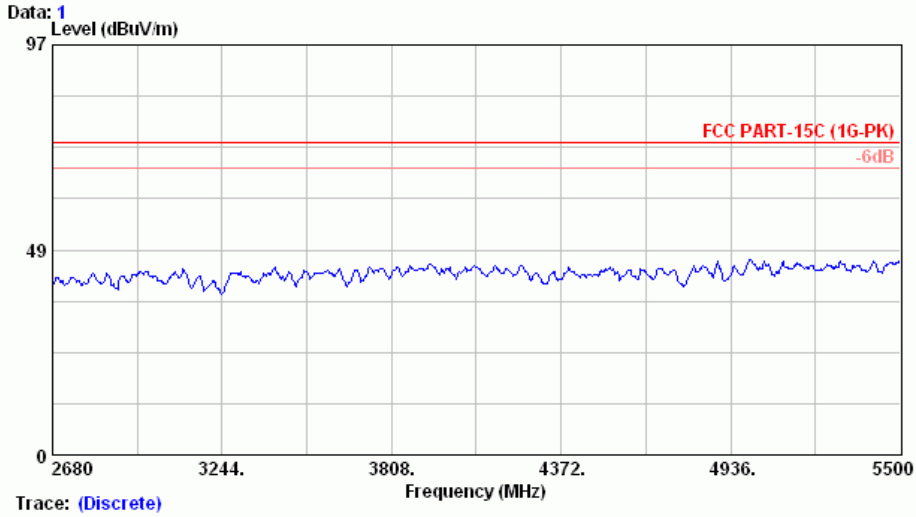

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2412(802.11g)		

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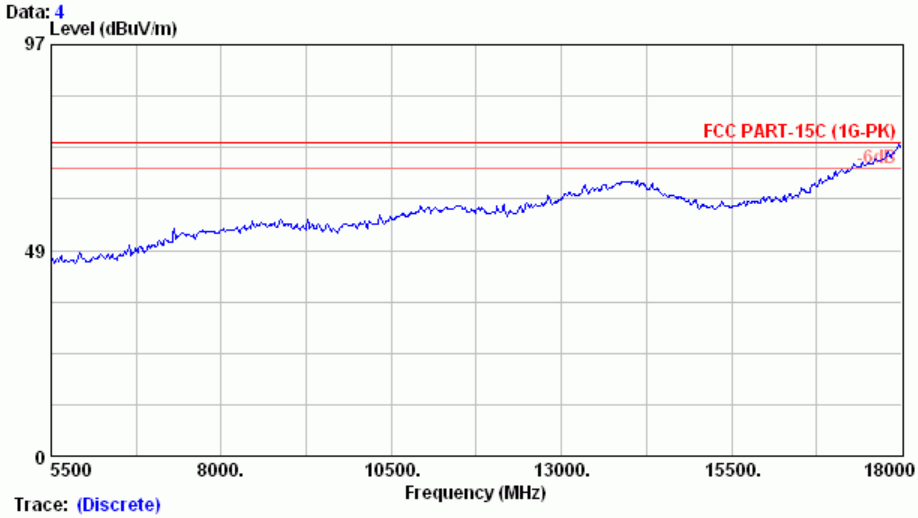

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2412(802.11g)		

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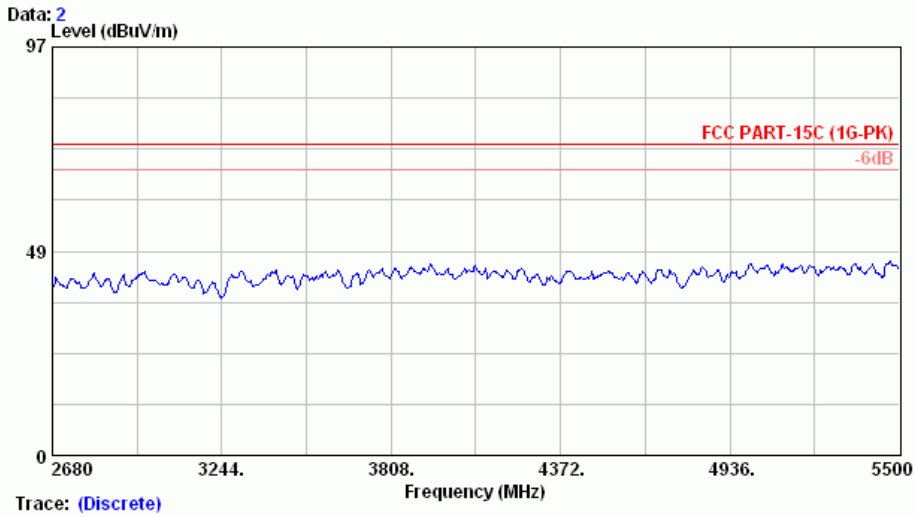

Trace: (Discrete)

```
Site no.      : A/C Chamber                  Data no.   : 2
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(802.11g)
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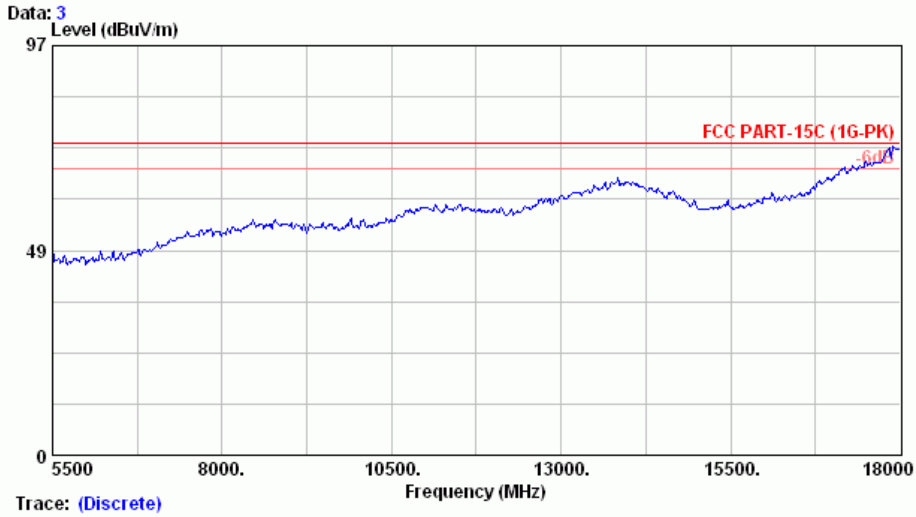

Trace: (Discrete)

```
Site no.      : A/C Chamber                  Data no.   : 3
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2412(802.11g)
```

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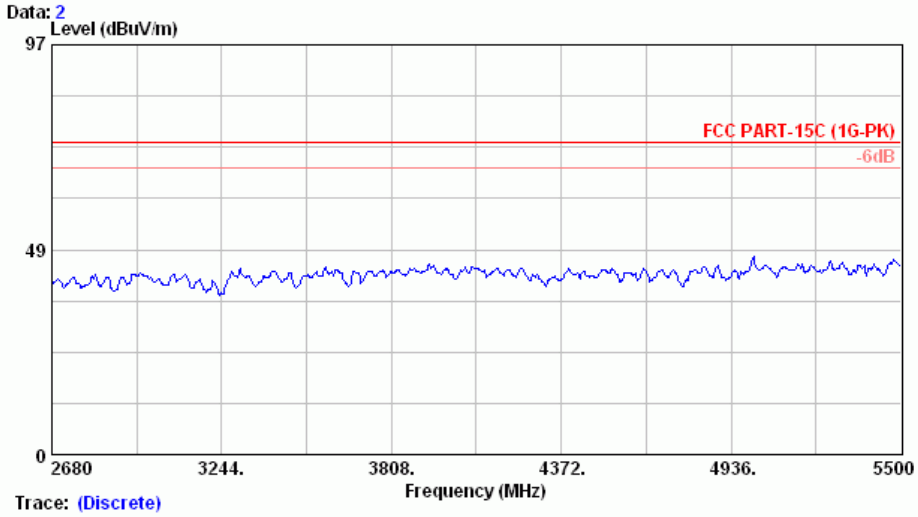


```
Site no.      : A/C Chamber                  Data no.   : 2
Dis. / Ant.   : 3m   3115                    Ant. pol.  : HORIZONTAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2437(802.11g)
```

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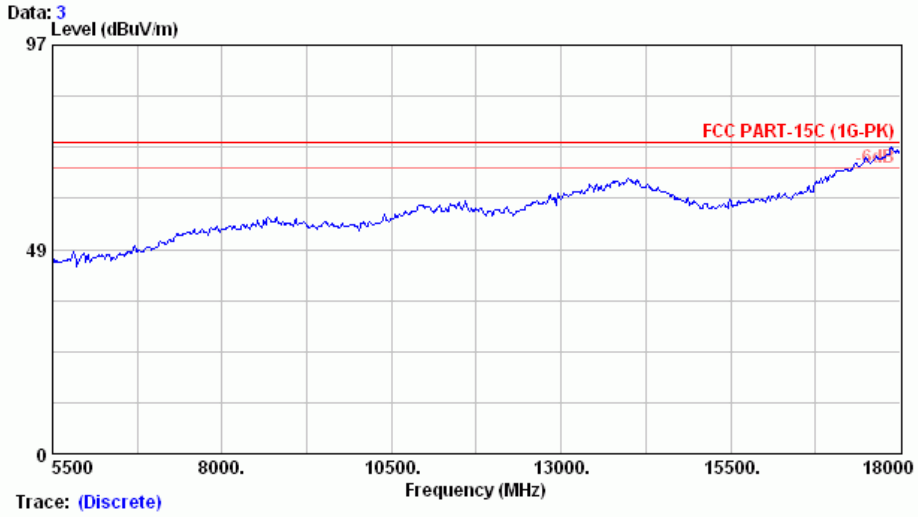


```
Site no.      : A/C Chamber                  Data no.   : 3
Dis. / Ant.   : 3m   3115                    Ant. pol.  : HORIZONTAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2437(802.11g)
```

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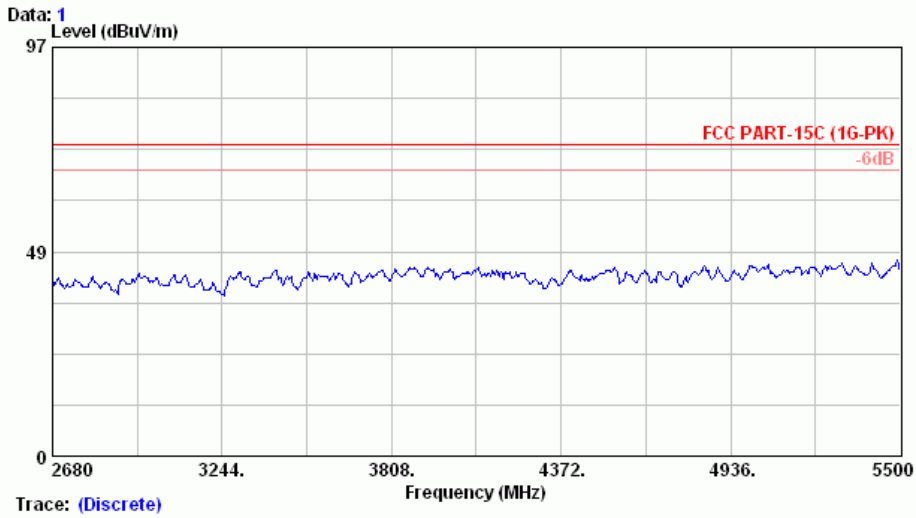


```
Site no.      : A/C Chamber                  Data no.   : 1
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2437(802.11g)
```

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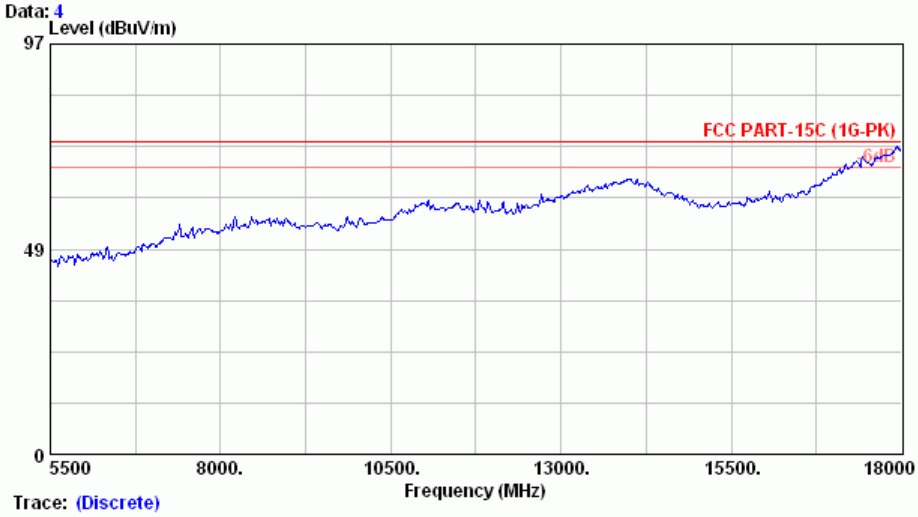


```
Site no.      : A/C Chamber                  Data no.   : 4
Dis. / Ant.   : 3m   3115                    Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : TX2437(802.11g)
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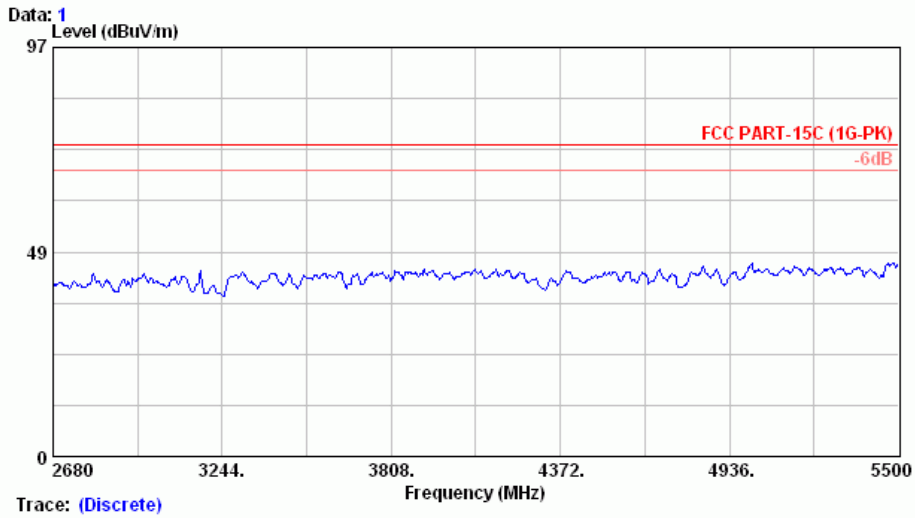

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(802.11g)		

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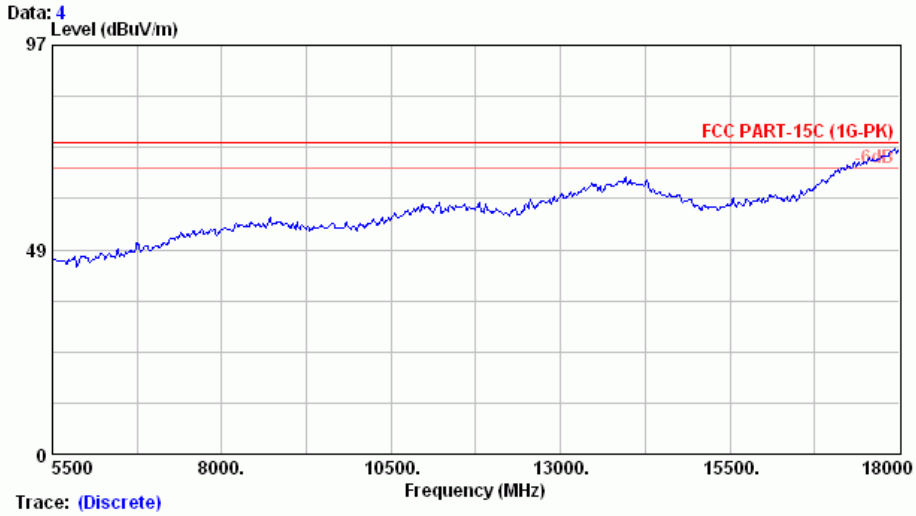

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(802.11g)		

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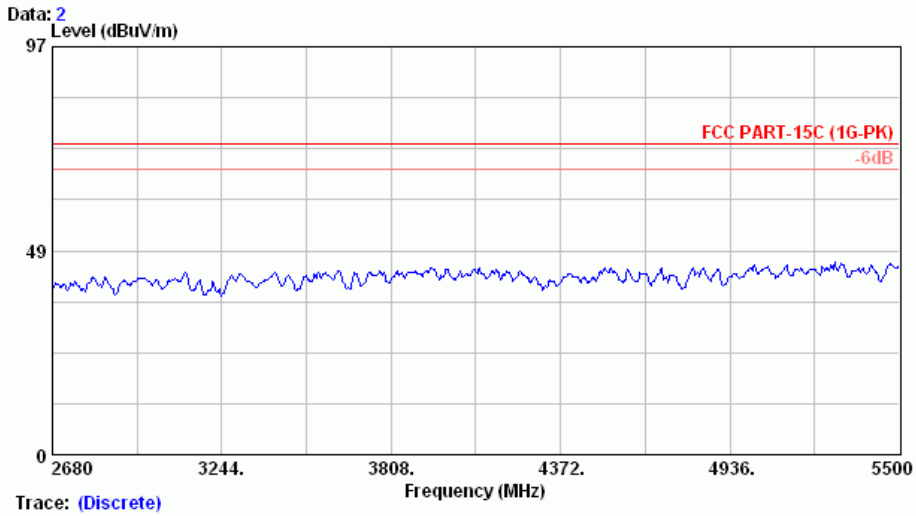

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 2
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(802.11g)		

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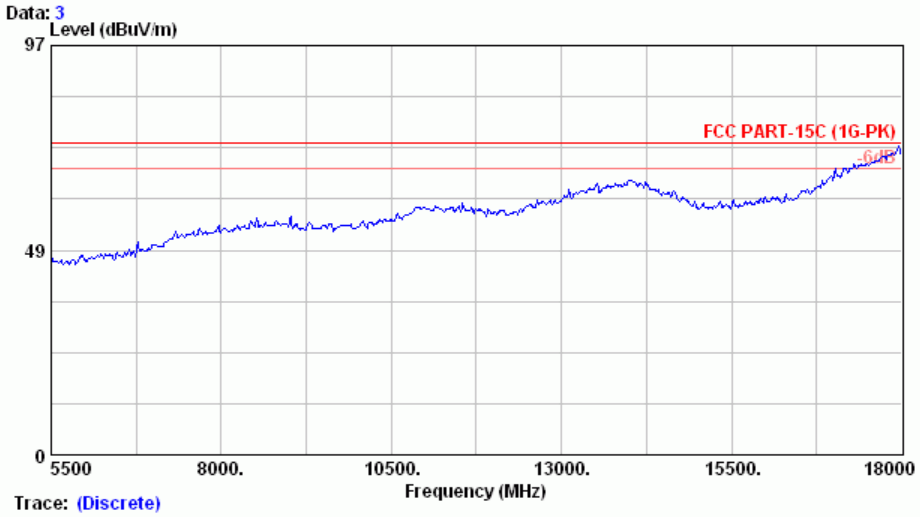

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 3
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: TX2462(802.11g)		

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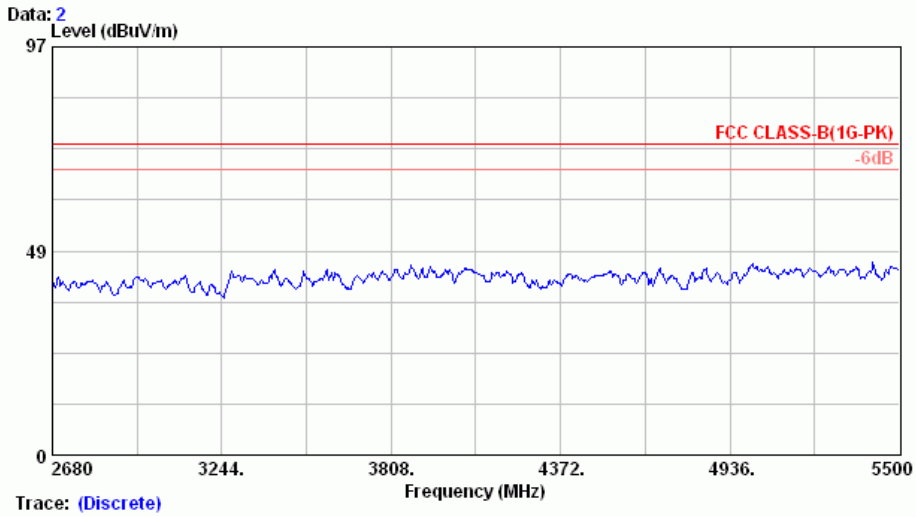

Trace: (Discrete)

```
Site no.      : A/C Chamber                  Data no.   : 2
Dis. / Ant.   : 3m   3115                    Ant. pol.  : HORIZONTAL
Limit         : FCC CLASS-B(1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : RX2437(802.11g)
```

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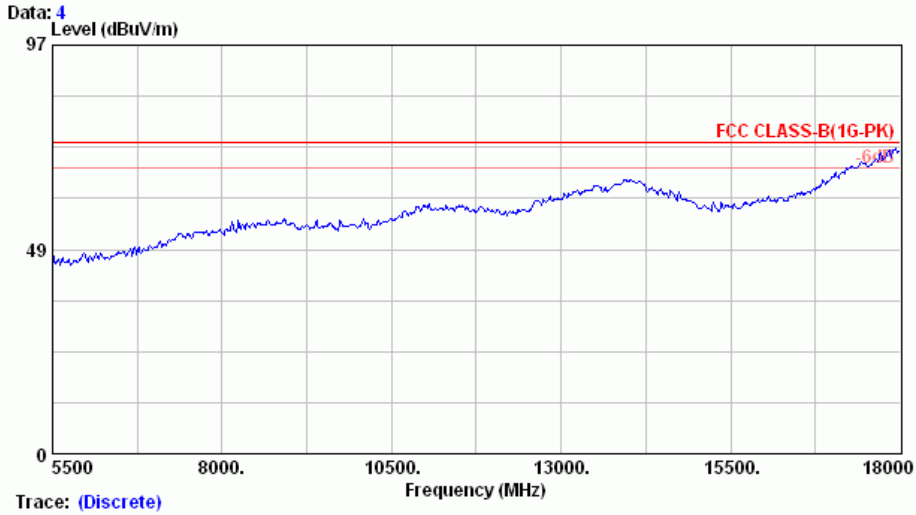

Trace: (Discrete)

```
Site no.      : A/C Chamber                  Data no.   : 4
Dis. / Ant.   : 3m   3115                    Ant. pol.  : HORIZONTAL
Limit         : FCC CLASS-B(1G-PK)
Env. / Ins.   : 8593EM  21*C/52%             Engineer   : Jarwei Wang
EUT           : Electronic Dictionary  M/N:Z1
Power Rating  : 120Vac/60Hz
Test Mode     : RX2437(802.11g)
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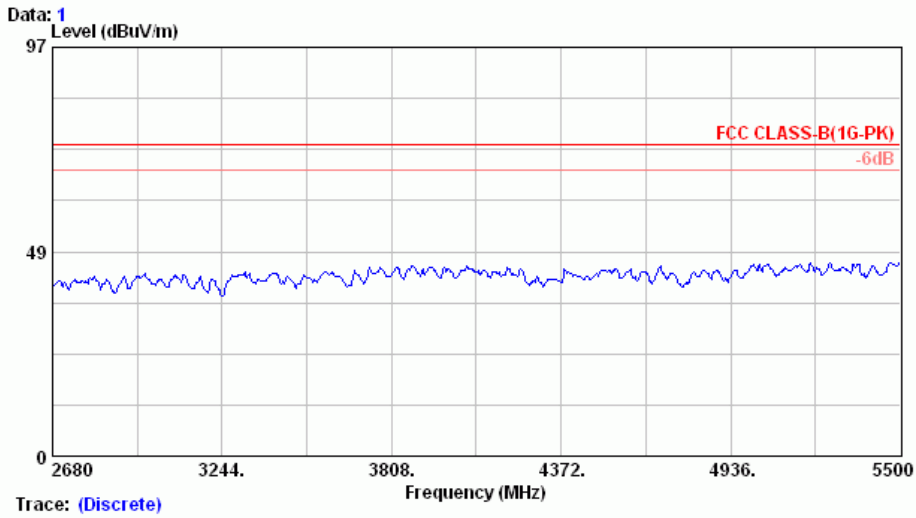

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC CLASS-B(1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2437(802.11g)		

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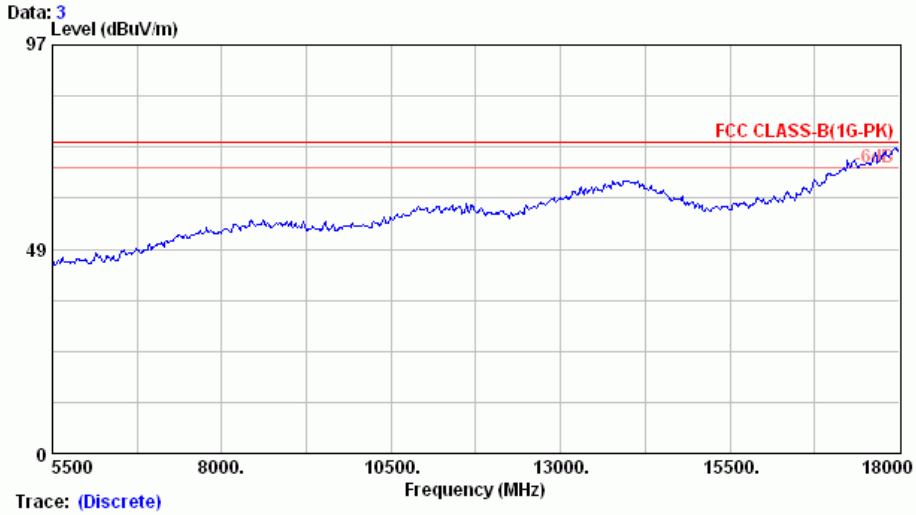

Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 3
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC CLASS-B(1G-PK)		
Env. / Ins.	: 8593EM 21*C/52%	Engineer	: Jarwei Wang
EUT	: Electronic Dictionary M/N:Z1		
Power Rating	: 120Vac/60Hz		
Test Mode	: RX2437(802.11g)		