

HomeTek Technology Inc.

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CERTIFICATION

EUT	:	Wi-Music Wireless Audio Transceiver		
MODEL NO.	:	PC2410		
TRADE MARK	:	Hauppauge		
FCC ID	:	WEGPC2410		
Receipt Date	:	05/06/2008	Final Test Date:	05/24/2008
REPORT #	:	FBE0805025		
APPLICANT	:	Hauppauge Computer Works, Inc		
ADDRESS	:	91 Cabot Court, Hauppauge, NY 11788		

MEASUREMENT PROCEDURE USED :

FCC RULES AND REGULATION PART 15, SUBPART B AND SUBPART C
AND FCC / ANSI C63.4-2003

We hereby show that:


The measurement shown in this test report were made in accordance with and no deviation with the procedures indicated, and the maximum energy emitted by the equipment was found to be within the FCC limits applicable.

This test result of this report applies to above tested sample only.

This test report shall not be reproduce in part without written approval of HomeTek Technology (Chang-An) Inc.

PREPARED BY : SANDY HE DATE : 06/14/2008

CHECK BY : DAWN DATE : 06/14/2008
Director

APPROVED BY :  DATE : 6/16/2008
Manager



FBE0805025



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PHOTO OF FCC ID LABEL 38

APPENDIX A

FCC ID LABEL AND LOCATION PHOTOS OF EUT

APPENDIX B

EUT PHOTOS OF TEST SETUP

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EXTERNAL PHOTOS OF EUT

APPENDIX D

INTERNAL PHOTOS OF EUT

APPENDIX E

PLOT OF OCCUPIED BANDWIDTH



GENERAL INFORMATION

1	APPLICANT	:	<u>Hauppauge Computer Works, Inc</u>
2	ADDRESS	:	<u>91 Cabot Court, Hauppauge, NY 11788</u>
3	MANUFACTURER	:	<u>GRAND SHINE MANAGEMENT LTD</u>
4	ADDRESS	:	<u>Changlang Ave, Changping, DongGuan</u>
5	DESCRIPTION OF EUT	:	
	EUT	:	<u>Wi-Music Wireless Audio Transceiver</u>
	FCC ID	:	<u>WEGPC2410</u>
	Model Number	:	<u>PC2410</u>
	Trade Mark	:	<u>Hauppauge</u>
	Serial #	:	<u>N/A</u>

5.1 The EUT were investigated with three operation modes as below:

- (1) Channel(1)2405.376MHz Mode
- (2) Channel(5)2446.336MHz Mode
- (3) Channel(8)2475.008MHz Mode

The worst case of EMC test Mode is Channel(1)2405.376MHz Mode.

And the final test data were shown on this test report.

6 FEATURES

Wi-Music USB Transmitter:

- Plug and play
- No software driver required
- Supported operating systems
 - ✧ Windows XP, Windows Vista
 - ✧ MAC OS9.2.1, MAC OS10.2
- USB 1.1 full-speed compliant stereo audio transmitter.
- Uncompressed audio transmission.
- Support 8 KHz, 11.025KHz, 44.1KHz and 48KHz sampling rates for 2 channels playback.
- 2.4GHz GFSK Transmitter with 8 select able channels.
- Separate buttons for channel select and ID Pairing.
- The LED will light up upon power up and it will turn to blinking mode when transmitting Audio steams.
- USB type A interface.
- Typical 15m indoor range.

Wi-Music Receiver:

- Auto power off when there is no music transmission
- Supports 48KHz, 16-bit 2 channels, uncompressed audio transmission
- 2.4GHz GFSK wireless link with 8 selectable channels
- Up to 30m indoor range (Line of Sight)
- Frequency Range: 2400 MHz ~ 2483.5 MHz
- Frequency of Each Channel: (1) 2405.376 MHz, (2) 2415.616 MHz,
(3) 2425.856 MHz, (4) 2436.096 MHz,
(5) 2446.336 MHz, (6) 2456.576 MHz,
(7) 2466.816 MHz, (8) 2475.008 MHz



MODIFICATION LIST

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING :

NO MODIFICATION BY HOMETEK TECHNOLOGY(Chang-An) INC.

CONDUCTED POWER LINE TEST

1 TEST INSTRUMENTS & FACILITIES

The following test Instruments was used during the conducted test :

Item	Instruments/ Facilities	Specification	Manufacturer	Model #	Date Of Cal.
1	EMI Receiver	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESHS10 840449/001	DEC/2007
2	LISN (for EUT)	50Ω/50uH/16A 9KHz ~ 30MHz	AFJ	LT32 32039930056	DEC/2007
3	LISN (for Support Unit)	50Ω/50uH/15A 150KHz ~ 30MHz	SANKI	LISN1-15V 080404E	DEC/2007
4	Terminator	50Ω	N/A	N/A	NOV/2007
5	Attenuation	50Ω/10dB	Mini-Circuit	NAT-10 AT-002	DEC/2007
6	Cable	5.4m	SUHNER	RG-223 CON2-001	DEC/2007
7	ESXS-K1 (software)	Version 2.03b 9KHz ~ 30MHz	ROHDE & SCHWARZ	1082.9678.02 840.913/246	N/A

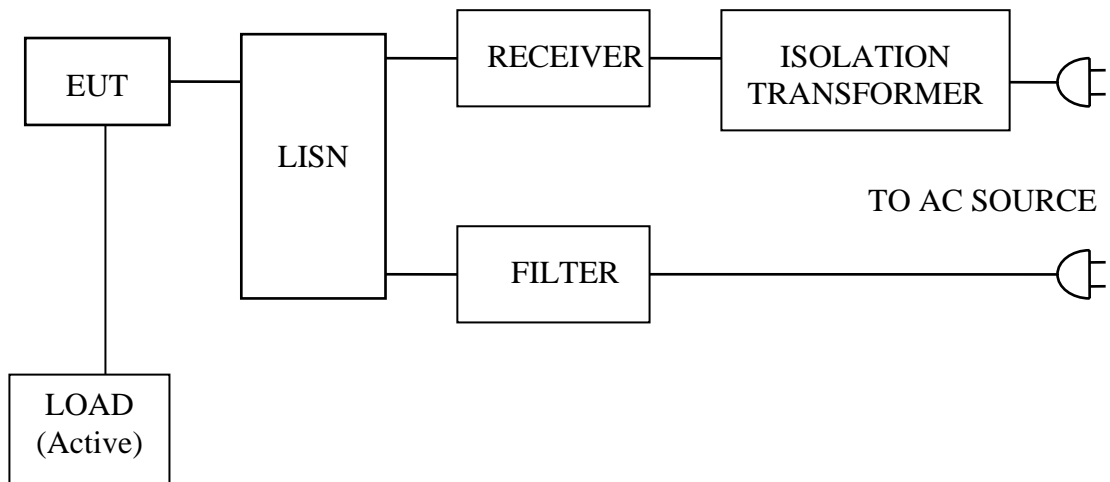
Note : Items 1 ~ 6 were calibrated within period of 1 year.

2 TEST PROCEDURE

- 2.1 The EUT was tested according to **ANSI C63.4 - 2003**.
- 2.2 The EUT was placed 0.4 meter from the conducting wall of shielding room and kept at least 0.8 meter from any other grounded conducting surface.
- 2.3 The frequency range form 0.15 MHz to 30 MHz was investigated.
- 2.4 The LISN used was 50 Ohm / 50 uHenry as specified by by Section 4.1.2 of **ANSI C63.4 - 2003**.
- 2.5 All the support peripherals are connect to the other LISN.
- 2.6 Cables and peripherals were moved to find the maximum emission levels for each frequency.

3 TEST SETUP

3.1 Block Diagram Of Conducted Test



- PC
- Monitor
- Mouse
- KeyBoard
- Printer
- Modem
- Speaker
- AC Adaptor

4 CONFIGURATION OF THE EUT

The EUT was configured according to **ANSI C63.4 - 2003**. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device) :

4.1 EUT

EUT Type : Proto Type Engineer Type Mass Production

Condition when received : Good Damage :

Device : Wi-Music Wireless Audio Transceiver

Applicant : Hauppauge Computer Works, Inc

Manufacturer : GRAND SHINE MANAGEMENT LTD

Model Number : PC2410

Trade Mark : Hauppauge

Audio Cable : Un-Shielded ,1 m

4.2 Peripheral

Host Personal Computer

Manufacturer : DELL

Model Number : DMC

Power Cord : Un-Shielded ,3pin,1.8m

Power Supply Type : Switching

Serial Number : JMM5L 1X

FCC ID : FCC DoC



Monitor

Manufacturer : DELL
Model Number : E158FPc
Power Cord : Un-Shielded ,3pin,1.8m
Power Supply Type : Switching
Serial Number : CN-0FJ179-64180-6BD-0G2S
FCC ID : FCC DoC

Mouse

Manufacturer : DELL
Model Number : M056U0A
Serial Number : N/A
FCC ID : FCC DoC
Data Cable : Shielded,1 m,Connected to the USB port
Power Cord : N/A

KeyBoard

Manufacturer : DELL
Model Number : SK-8115
Serial Number : CN-0DJ313-7616-6BF-0J3X
FCC ID : FCC DoC
Data Cable : Shielded,2 m,Connected to the USB port
Power Cord : N/A

Printer

Manufacturer : EPSON
Model Number : P310B
Serial Number : N/A
FCC ID : N/A
Data Cable : Shielded, 1 m, Connected to the Printer port
Power Cord & Adaptor : Un-Shielded, 1.8 m

 Modem

Manufacturer : ACEEX
Model Number : 1414
Serial Number : 98002779
FCC ID : N/A
Data Cable : Shielded, 1.7 m, Connected to the COM port
Power Cord & Adaptor : Un-Shielded, 1.9 m

 Speaker

Manufacturer : Logitech
Model Number : N/A

 AC Adaptor

Manufacturer : Ktec
Model Number : KSUFB0500050D1EU
INPUT : 100-240V,50/60Hz,0.15A
OUTPUT : 5.0V,0.5A
Power Cord & Adaptor : Un-Shielded, 1.2 m

4.3 REMARK : N/A

5 EUT OPERATING CONDITION

- 5.1 Configure the EUT according to the **ANSI C63.4 - 2003**.
- 5.2 The frequency of the EUT is 2.4 GHz.
- 5.3 Execute the EUT and performance the EMI testing procedures, and measure the maximum emission noise.
- 5.4 The photos of conducted test configuration, please refer to appendix A.**

6 LIMIT OF CONDUCTED POWER LINE EMISSION CLASS B

Frequency Range	Quasi Peak	Average
0.15 ~ 0.5 MHz	66 - 56 dBuV	56 - 46 dBuV
0.5 ~ 5 MHz	56 dBuV	46 dBuV
5 ~ 30 MHz	60 dBuV	50 dBuV

In the above table, the tighter limit applies at the band edges.

7 RESULT OF CONDUCTED POWER LINE TEST

- 7.1 The frequency range from 0.15 MHz to 30 MHz was investigated. All readings are quasi-peak values.
- 7.2 IF bandwidth : 9 kHz, Meas Time : 1 sec.
- 7.3 Temperature : 27.6 °C, Humidity : 73 % RH.
- 7.4 Deviations from the test standards and rules : None
- 7.5 The conducted test result were gained by following procedures :
 Level = Reading Level + Insertion Loss of LISN + Cable Loss
 (All calculation were done by ESHS10 EMI test receiver.)
- 7.6 Result : **PASSED**

8 CONDUCTED POWER LINE TEST DATA (PAGE 1)

HomeTek EMC LAB. TEL :86-769-85303005 , 886-2-22608375

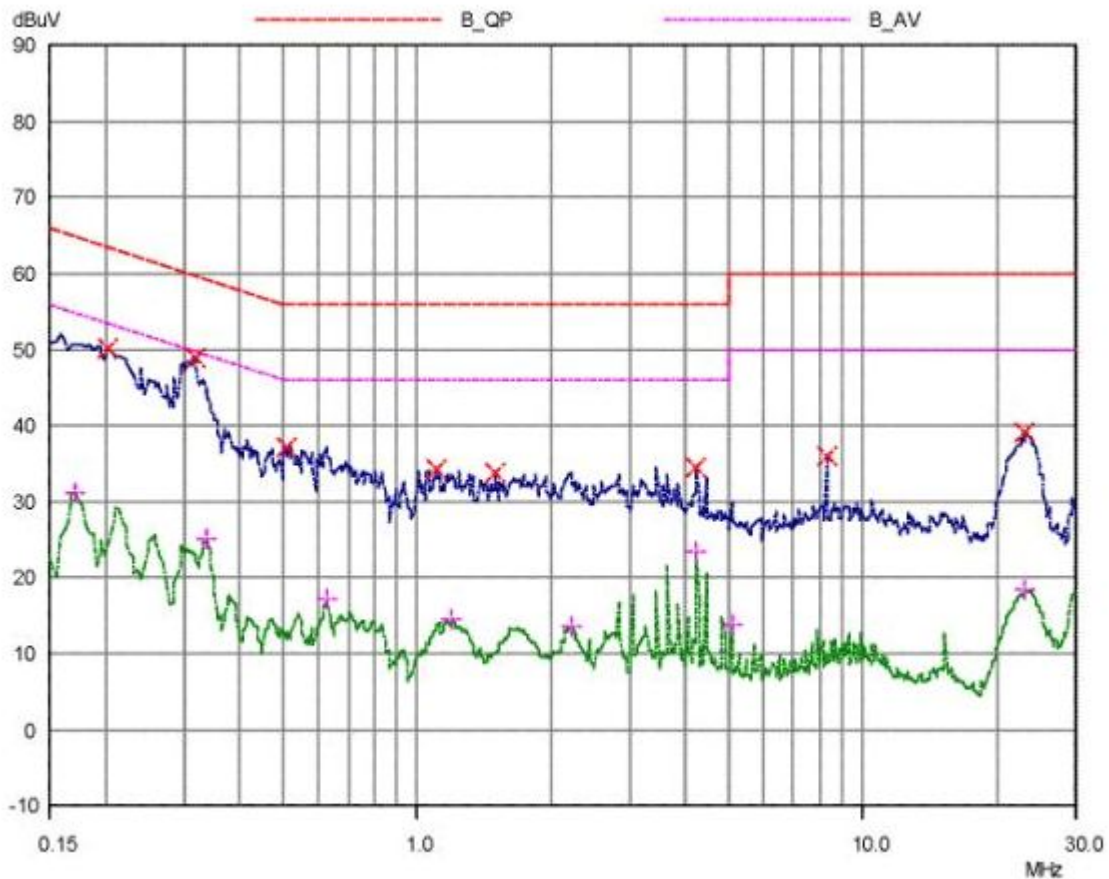
24 May 2008 09:10

CONDUCTED EMISSIONS

EUT: FC2410
 Manuf: E0805025
 Op Cond: LINE
 Operator: BELINDA
 Test Spec: FOR FCC PART 15 CLASS B
 Comment: 110V/60Hz

Result File: 08050250021.dat :

Prescan Measurement: Detectors: X PK / + AV
 Meas Time: see scan settings
 Subranges: 8
 Acc Margin: 55 dB





9 CONDUCTED POWER LINE TEST DATA (PAGE 2)

HomeTek EMC LAB. TEL :86-769-85303005 , 886-2-22608375

24 May 2008 09:10

CONDUCTED EMISSIONS

EUT: PC2410
 Manuf: ED805025
 Op Cond: LINE
 Operator: BELINDA
 Test Spec: FOR FCC PART 15 CLASS B
 Comment: 110V/60Hz

Result File: 08050250021.dat :

Prescan Measurement: Detectors: X PK / + AV
 Meas Time: see scan settings
 Subranges: 8
 Acc Margin: 55 dB

Peak Search Results

Frequency MHz	PK Level dBuV	PK Limit dBuV	PK Delta dB
0.201	50.06	63.57	13.51
0.315	48.85	59.84	10.99
0.51	37.20	56.00	18.80
1.1	34.40	56.00	21.60
1.496	33.93	56.00	22.07
4.238	34.44	56.00	21.56
8.3	36.09	60.00	23.91
23.13	39.03	60.00	20.97

Frequency MHz	AV Level dBuV	AV Limit dBuV	AV Delta dB
0.171	31.20	54.91	23.71
0.336	25.06	49.30	24.24
0.624	17.26	46.00	28.74
1.196	14.65	46.00	31.35
2.222	13.72	46.00	32.28
4.238	23.39	46.00	22.61
5.05	13.77	50.00	36.23
23.22	18.34	50.00	31.66

* limit exceeded

10 CONDUCTED POWER LINE TEST DATA (PAGE 3)

HomeTek EMC LAB. TEL :86-769-85303005 , 886-2-22608375

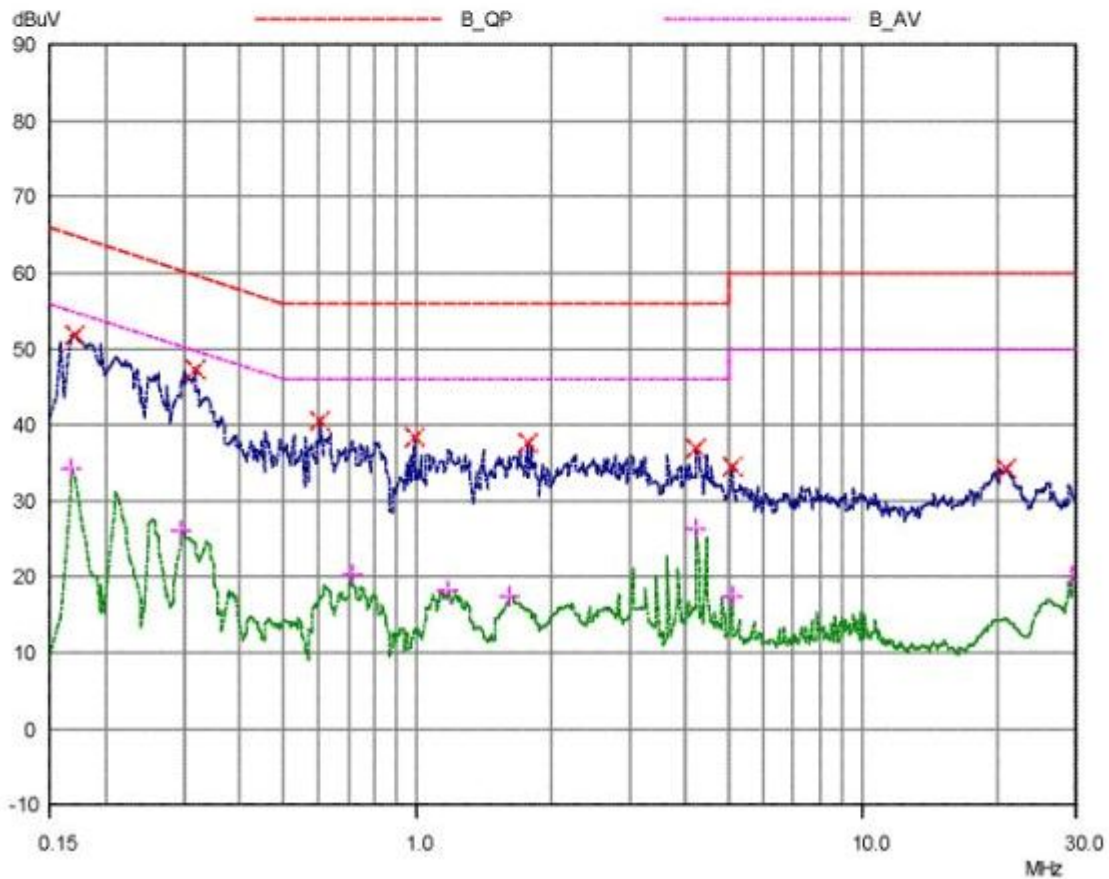
24 May 2008 09:22

CONDUCTED EMISSIONS

EUT: FC2410
Manuf: E0805025
Op Cond: NEUTRAL
Operator: BELINDA
Test Spec: FOR FCC PART 15 CLASS B
Comment: 110V/60Hz

Result File: 08050250022.dat :

Prescan Measurement: Detectors: X PK / + AV
Meas Time: see scan settings
Subranges: 8
Acc Margin: 55 dB





11 CONDUCTED POWER LINE TEST DATA (PAGE 4)

HomeTek EMC LAB. TEL :86-769-85303005 , 886-2-22608375

24 May 2008 09:22

CONDUCTED EMISSIONS

EUT: FC2410
 Manuf: E0805025
 Op Cond: NEUTRAL
 Operator: BELINDA
 Test Spec: FOR FCC PART 15 CLASS B
 Comment: 110V/60Hz

Result File: 08050250022.dat :

Prescan Measurement: Detectors: X PK / + AV
 Meas Time: see scan settings
 Subranges: 8
 Acc Margin: 55 dB

Peak Search Results

Frequency MHz	PK Level dBuV	PK Limit dBuV	PK Delta dB
0.171	51.77	64.91	13.14
0.315	47.16	59.84	12.68
0.606	40.51	56.00	15.49
0.98	38.43	56.00	17.57
1.754	37.75	56.00	18.25
4.238	36.89	56.00	19.11
5.04	34.49	60.00	25.51
21.09	34.34	60.00	25.66

Frequency MHz	AV Level dBuV	AV Limit dBuV	AV Delta dB
0.168	34.38	55.06	20.68
0.294	26.14	50.41	24.27
0.708	20.25	46.00	25.75
1.166	18.30	46.00	27.70
1.616	17.38	46.00	28.62
4.238	26.31	46.00	19.69
5.05	17.39	50.00	32.61
29.49	20.01	50.00	29.99

* limit exceeded

RADIATED EMISSION TEST

1 TEST INSTRUMENTS & FACILITIES

The following test Instruments was used during the radiated emission test :

Item	Instruments /facilities	Specification	Manufacturer	Model # / S/N#	Date of Cal.
1	OPEN AREA TEST SITE	<input checked="" type="checkbox"/> OATS 1			JAN/2008
2	EMI TEST RECEIVER	20Hz ~ 26.5GHz	ROHDE & SCHWARZ	ESMI 845636/007	DEC/2007
3	PRE-AMPLIFIER	9KHz ~ 3000MHz	ADVANTEST	BB525C 90081001	DEC/2007
4	ANTENNA (BI-LOG)	25MHz ~ 2GHz	SCHAFFNER	CBL6112B S/N : 2611	DEC/2007
5	Attenuation	50Ω/6dB	JYE BAO	FAT-N (M-F) 001	DEC/2007
6	Cable	10m	SUHNER	RG214/U OS3-003	DEC/2007
7	Cable	14m	BELDEN	9913 OS3-001	DEC/2007
8	EMI 32 (software)	N/A	AUDIX	19991013-0923	N/A

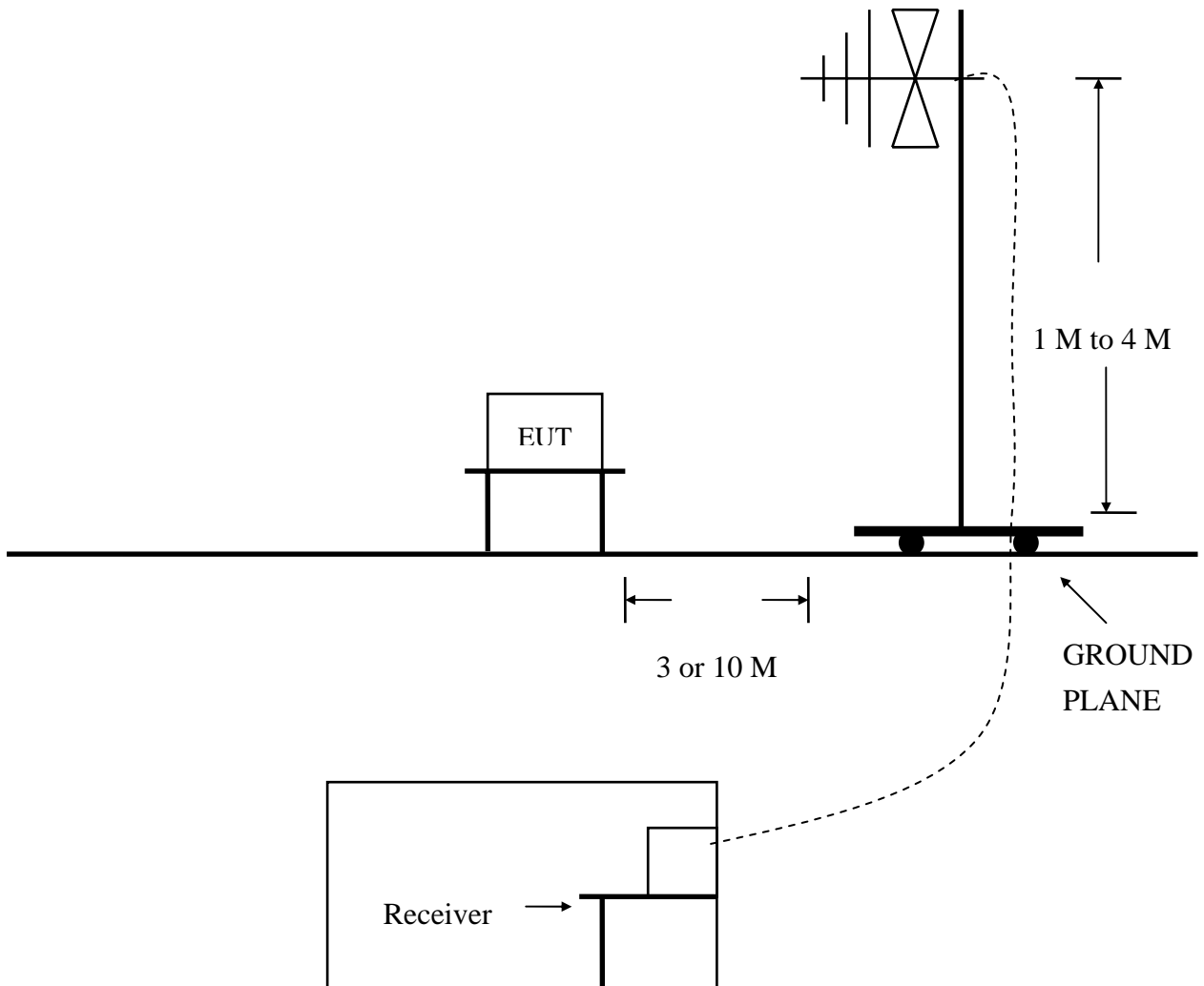
Note : Items 1 ~ 7 were calibrated within period of 1 year.

2 EUT OPERATING CONDITION

- 2.1 Configure the EUT according to the **ANSI C63.4 - 2003**.
- 2.2 The radiated emission in the frequency range from 30 MHz - 1000 MHz was test in a horizontal and vertical polarization at HomeTek Lab's open site I.
- 2.3 The crystal frequency of the EUT is 2.4 GHz.
- 2.4 EUT(TX) is connected to PC via USB port.
- 2.5 Turn on all the power of EUT and peripheral.
- 2.6 The EUT was tested using the audio signal from the PC, and TX will broadcast audio to RX. RX is connected to a HiFi system to playback the music.
- 2.7 The EUT was operated in its normal operating mode for the purpose of the measurements.
- 2.8 The receiving antenna polarized horizontally was varied from 1 to 4 meters and the wooden turntable was rotated through 360 degrees to obtain the highest reading on the ESMI test receiver or on the display of the spectrum analyzer. And also, each emission was to be maximized by changing the orientation of the EUT.
- 2.9 **The photos of radiated test configuration, please refer to appendix A.**

3 TEST SETUP

3.1 TEST SETUP OF OPEN SITE.



4 CONFIGURATION OF THE EUT

Same as “Conducted Power Line test”, section 4

5 TEST PROCEDURE

- 5.1 The EUT was test according to **ANSI C63.4 – 2003 & FCC Part 15.203/15.209/15.207/15.249.**
- 5.2 The radiated test was performed at HomeTek Lab’s Open Site I.
- 5.3 This site is on file with the FCC laboratory division, test firm registration number: 140723, expiration Date : 2004/09/29.
- 5.4 For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies. The signal of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
- 5.5 For emission frequencies measured below and above 1 GHz, set the spectrum analyzer or a 100KHz and 1MHz resolution bandwidth respectively for each frequency measured in item 5.4.
- 5.6 The receiving antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Move the antenna to a position where the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading. A RF test receiver is also used to confirm emissions measured.
- 5.7 Repeat item 5.6 until all frequencies need to be measured were completed.
- 5.8 Repeat item 5.7 with search antenna in vertical polarized orientations.
- 5.9 Check seven frequencies of highest emission with varying the placement of cables (if any) associated with EUT to obtain the worst case and record the result.
- 5.10 The frequency range from 30 MHz to 1 GHz were investigated, the measurement were made at 3 meters, with a BI-log antenna.

6 LIMIT OF RADIATED EMISSION CLASS B

Frequency (MHz)	Measurement Distance	Limit	
		dBuV/m	
Fundamental frequency		137	1W
Power spectral density		115	8dBm
Bandwidth			>500KHz
30 - 88	3 (M)	40	100uV/m
88 - 216	3 (M)	43.5	150uV/m
216 - 960	3 (M)	46	200uV/m
Above 960	3 (M)	54	500uV/m

- 6.1 The tighter limit shall apply at the edge between two frequency bands.
- 6.2 Measurement distance in meters between the measuring instrument antenna and the closed point of any part of the EUT or peripherals.

7 RESULT OF RADIATED EMISSION TEST

- 7.1 The frequency range from 30 MHz to 1 GHz was investigated.
- 7.2 All readings below or equal 1 GHz are quasi-peak or peak values with resolution bandwidth of 120 KHz. The reading of fundamental frequency is peak or average values. With resolution bandwidth of 120KHz.
- 7.3 The measurements were made at 3 meters of HomeTek(Chang-An) Lab's open site I.
- 7.4 Temperature : 29.2 °C, Humidity : 65 % RH.
- 7.5 Deviation form the test standards and rules : None
- 7.6 The radiation emission result were gained by the following method :
 Level = Reading Level + Probe Factor (Antenna Factor) + Cable Loss – Preamp Factor
 Over Limit = Level – Limit Line
- 7.7 Result : **PASSED**

8 RADIATED EMISSION TEST DATA (PAGE 1)

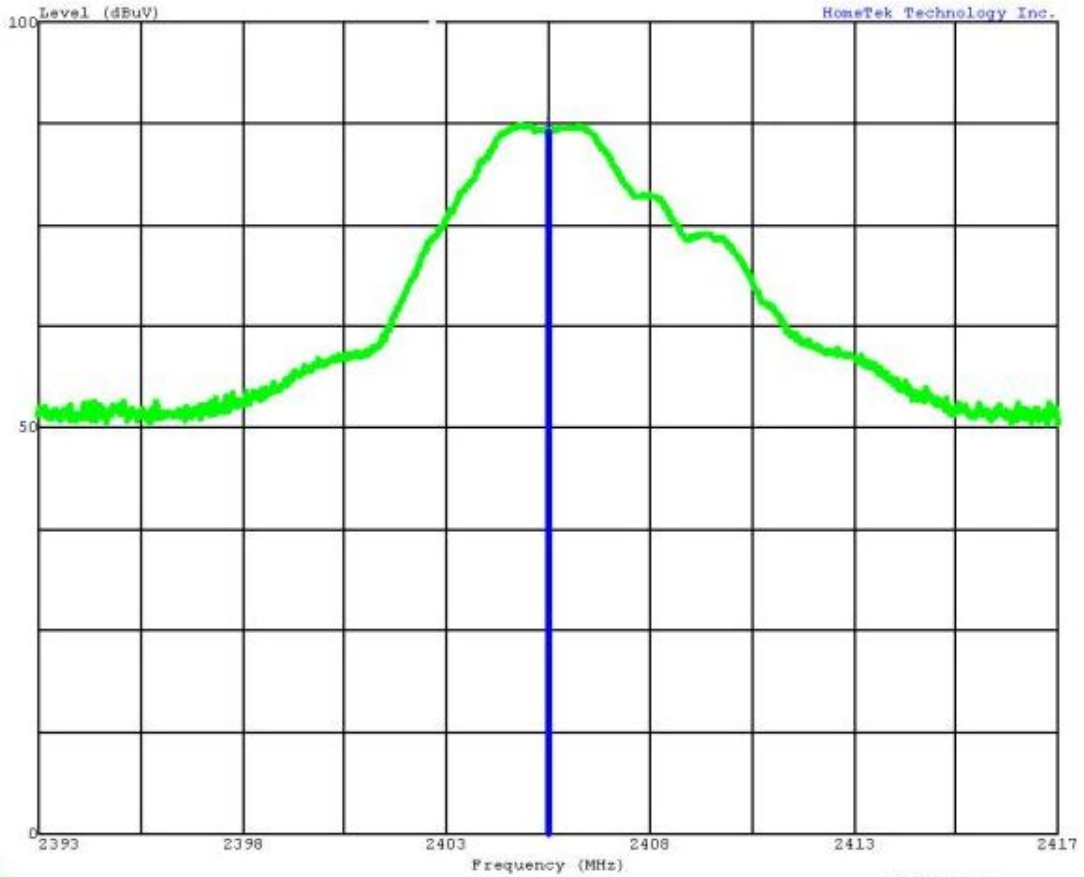


HomeTek Technology Inc.

Tel:02-22608375 Fax:02-22748013

Data#: 2 File#: B0805025.EMI

Date: 5-24,2008 Time: 19:58:31



Hometek
 Trace : 17
 Limit :
 Probe :
 Margin: -10.0dB
 SUP : PC2410
 Power : From PC
 Memo : 2405.376 MHz
 :
 :

Ref Trace:

Page: 1

Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
MHz	dB	dB	dB	dB	dB	dB	dB	
1 2405.370	86.52	-50.48	137.0	92.65	18.62	1.49	25.64	



9 RADIATED EMISSION TEST DATA (PAGE 2)

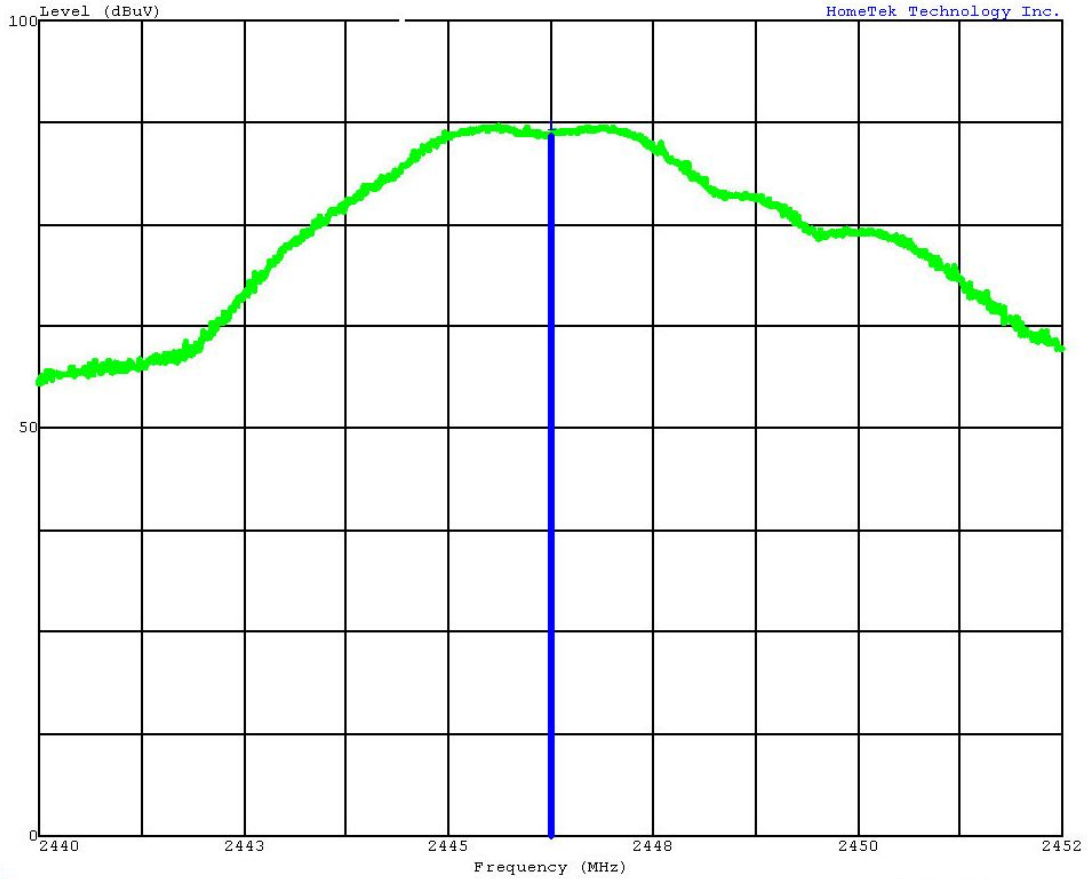


HomeTek Technology Inc.

Tel:02-22608375 Fax:02-22748013

Data#: 8 File#: E0805025.EMI

Date: 5-24,2008 Time: 22:42:20



Hometek
 Trace : 30
 Limit :
 Probe :
 Margin: -10.0dB
 EUT : PC2410
 Power : From PC
 Memo : 2446.336 MHz
 :
 :

Ref Trace:

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1	2446.330	85.98	-51.02	137.0	92.15	17.56	1.46	25.19	



10 RADIATED EMISSION TEST DATA (PAGE 3)

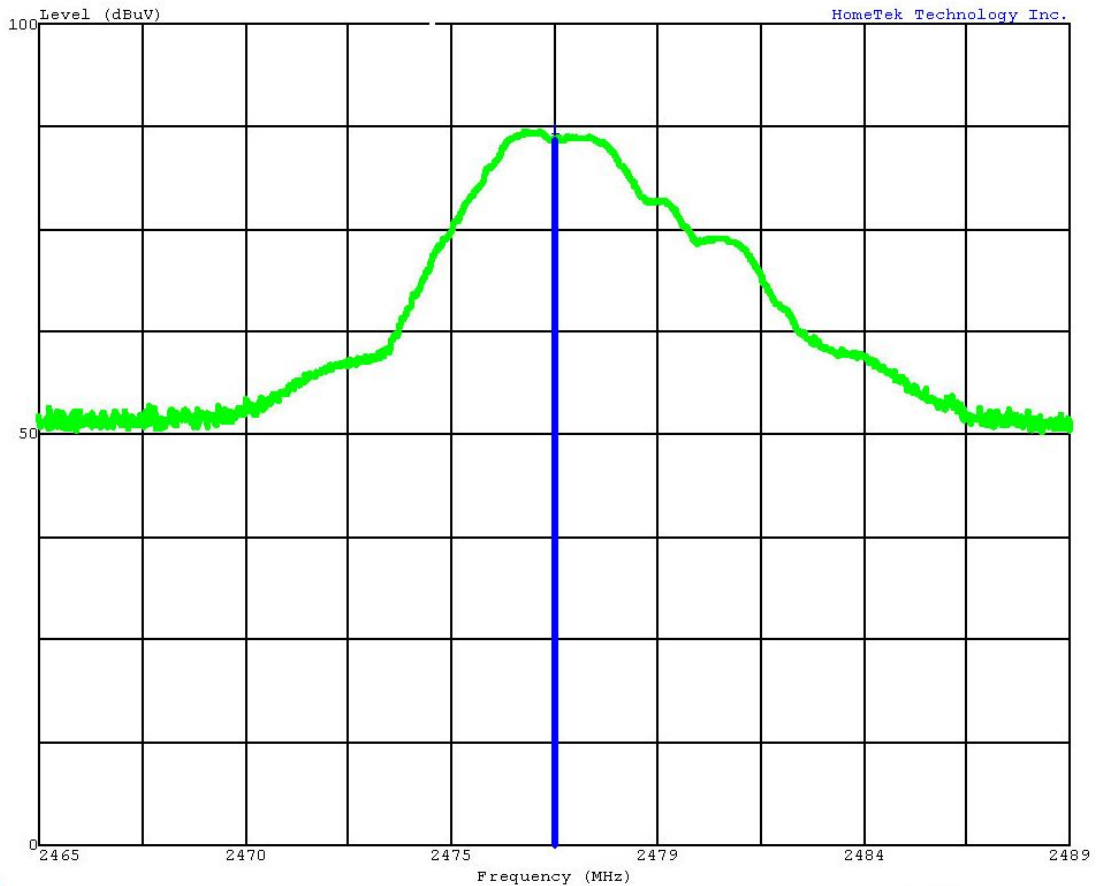


HomeTek Technology Inc.

Tel:02-22608375 Fax:02-22748013

Data#: 5 File#: E0805025.EMI

Date: 5-24,2008 Time: 21:49:48



Hometek
 Trace : 24
 Limit :
 Probe :
 Margin: -10.0dB
 EUT : PC2410
 Power : From PC
 Memo : 2475.008 MHz
 :
 :

Ref Trace:

Page: 1

Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
MHz	dB	dB	dB	dB	dB	dB	dB	
1 2477.000	85.96	-51.04	137.0	91.42	18.68	1.57	25.71	

11 RADIATED EMISSION TEST DATA (PAGE 4)

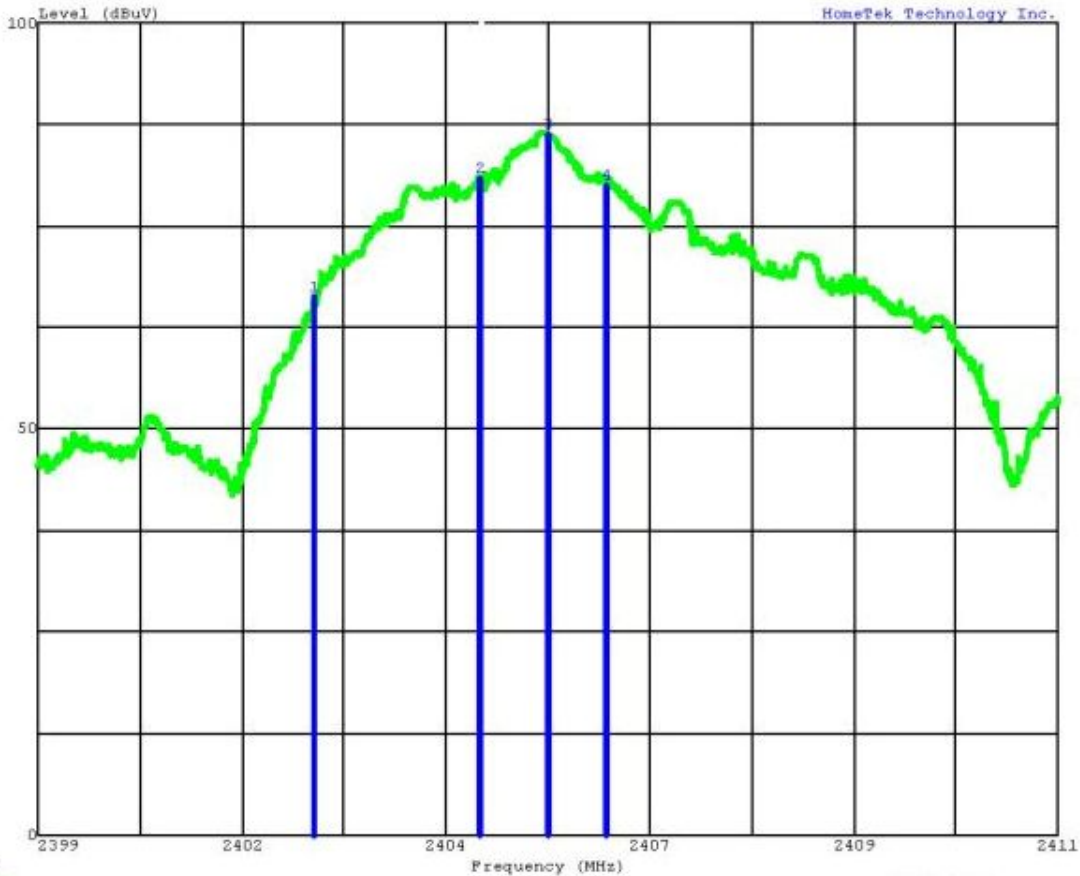


HomeTek Technology Inc.

Tel:02-22608375 Fax:02-22748013

Data#: 1 File#: B0805025.EMI

Date: 5-24,2008 Time: 18:15:48



Hometek
 Trace : 15
 Limit :
 Probe :
 Margin: -10.0dB
 SUT : PC2410
 Power : From PC
 Memo : 2405.376 MHz
 :
 :

Ref Trace:

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1	2402.622	66.25	-27.45	93.70	71.56	17.50	1.35	24.16	
2	2404.566	80.83	-12.87	93.70	85.53	18.41	1.52	24.63	
3	2405.370	86.36	-7.34	93.70	90.41	18.92	1.87	24.84	
4	2406.066	80.09	-13.61	93.70	84.16	19.50	1.93	25.50	

12 RADIATED EMISSION TEST DATA (PAGE 5)

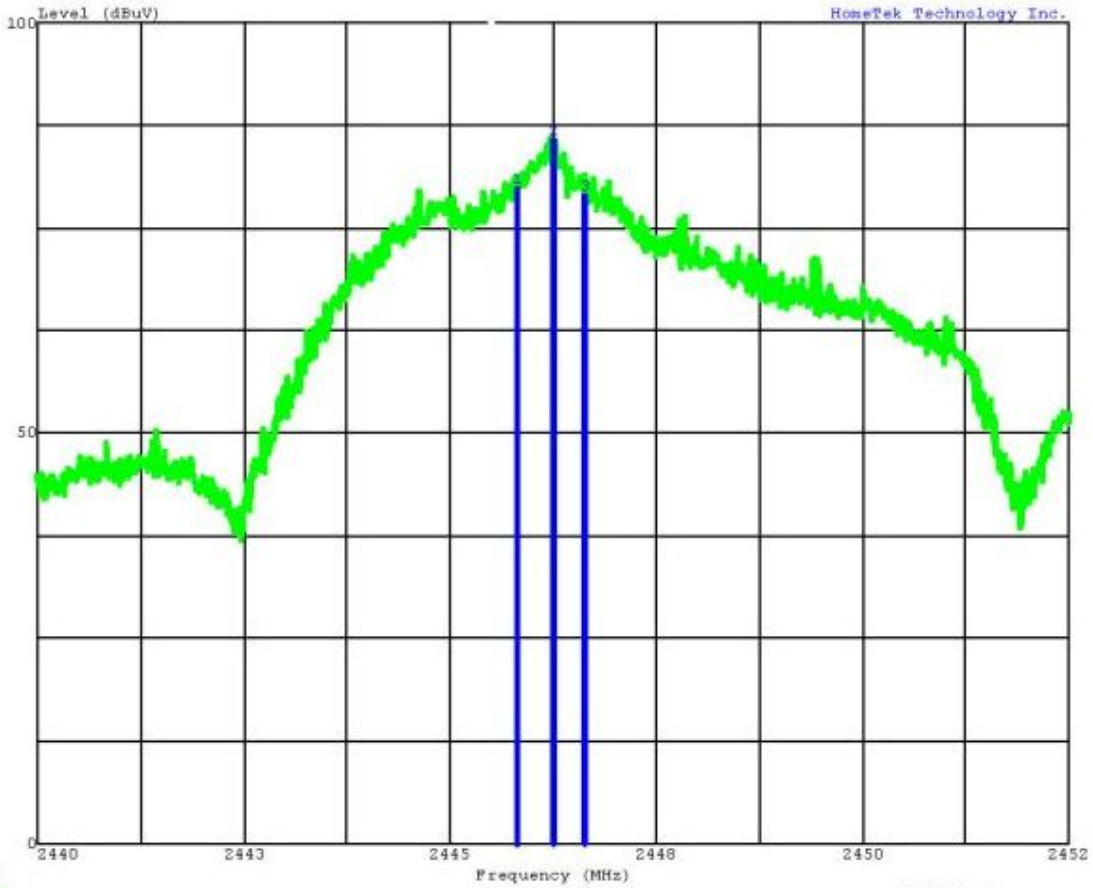


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Tel:02-22608375 Fax:02-22748013

Data#: 7 File#: E0805025.EMI

Date: 5-24,2008 Time: 22:01:10



Hometek
Trace : 38
Limit :
Probe :
Margin: -10.0dB
EUT : PC2410
Power : From PC
Memo : 2446.336 MHz
:
:

Ref Trace:

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	
	MHz	dB	dB	dB	Level	Factor	Loss	Factor	Remark
					dB	dB	dB	dB	
1	2445.922	79.74	-13.96	93.70	85.38	17.52	1.46	24.62	QP
2	2446.330	85.78	-7.92	93.70	90.80	18.41	1.70	25.13	QP
3	2446.690	78.97	-14.73	93.70	83.59	19.37	1.98	25.97	QP



13 RADIATED EMISSION TEST DATA (PAGE 6)

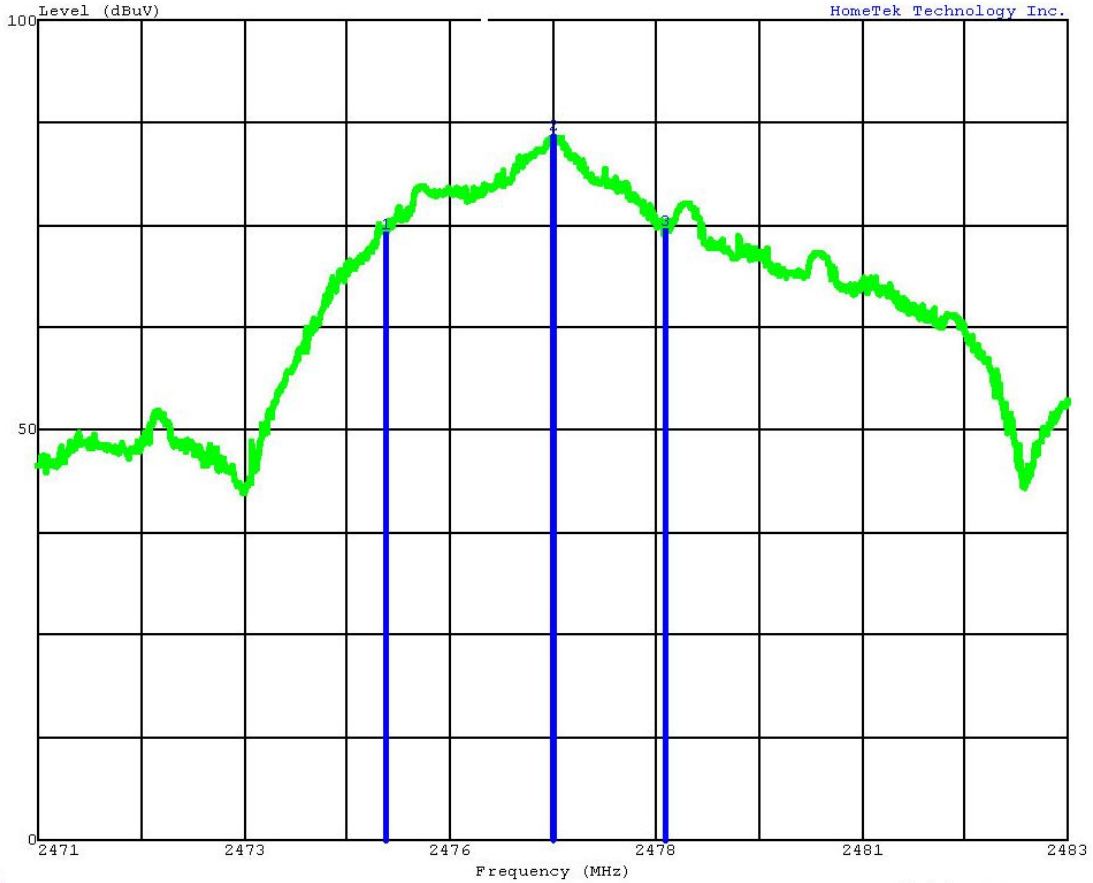


HomeTek Technology Inc.

Tel:02-22608375 Fax:02-22748013

Data#: 4 File#: E0805025.EMI

Date: 5-24,2008 Time: 21:08:33



Hometek
 Trace : 21
 Limit :
 Probe :
 Margin: -10.0dB
 EUT : PC2410
 Power : From PC
 Memo : 2475.008 MHz
 :
 :

Ref Trace:

Page: 1

Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
MHz	dB	dB	dB	dB	dB	dB	dB	
1 2475.056	73.92	-19.78	93.70	79.90	17.63	1.25	24.86	QP
2 2477.012	85.86	-7.84	93.70	91.16	18.24	1.59	25.13	QP
3 2478.320	74.40	-19.30	93.70	79.48	18.69	1.97	25.74	QP

14 RADIATED EMISSION TEST DATA (PAGE 7)

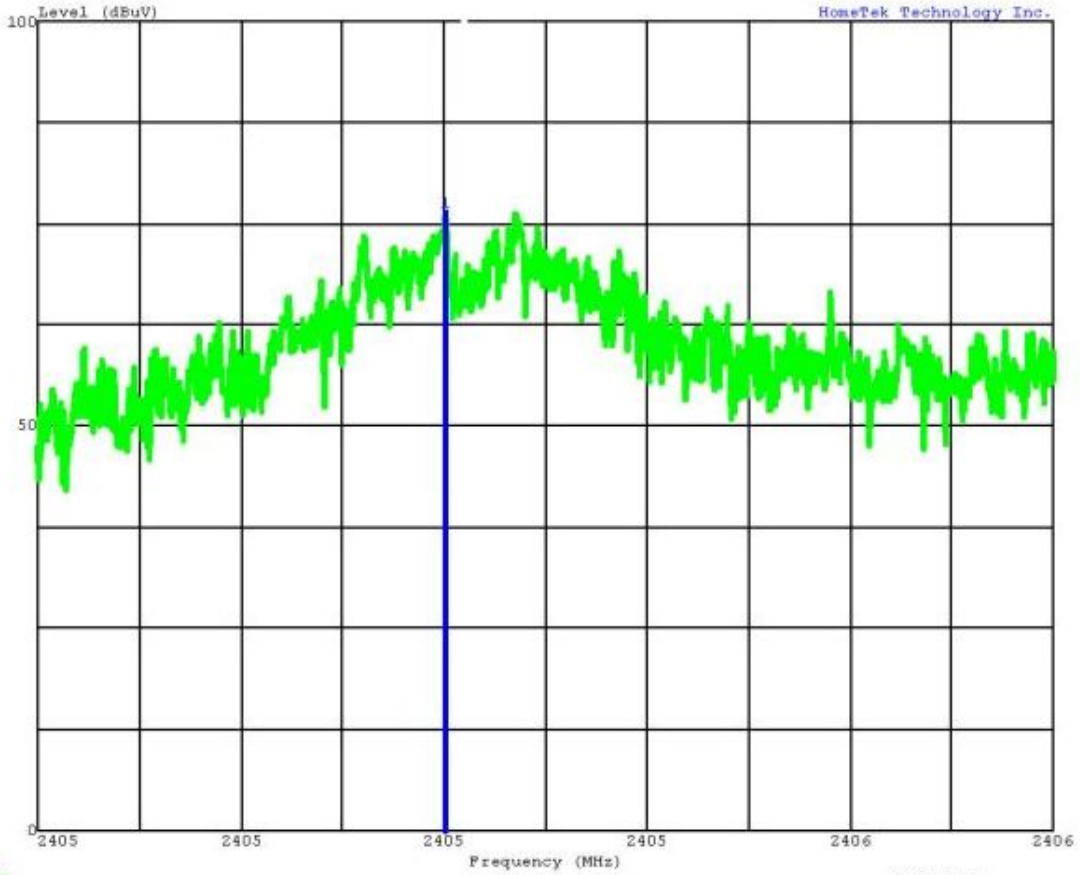


HomeTek Technology Inc.

Tel:02-22608375 Fax:02-22748013

Data#: 3 File#: B0805025.EMI

Date: 5-24,2008 Time: 20:32:36



Hometek
 Trace : 15
 Limit :
 Probe :
 Margin: -10.0dB
 EUT : PC2410
 Power : From PC
 Memo : 2405.376 MHz
 :
 :

Ref Trace:

Page: 1

Preq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp	Remark
MHz	dB	dB	dB	dB	dB	dB	dB	
1 2405.241	76.41	-38.59	115.0	81.81	17.68	1.59	24.67	



15 RADIATED EMISSION TEST DATA (PAGE 8)

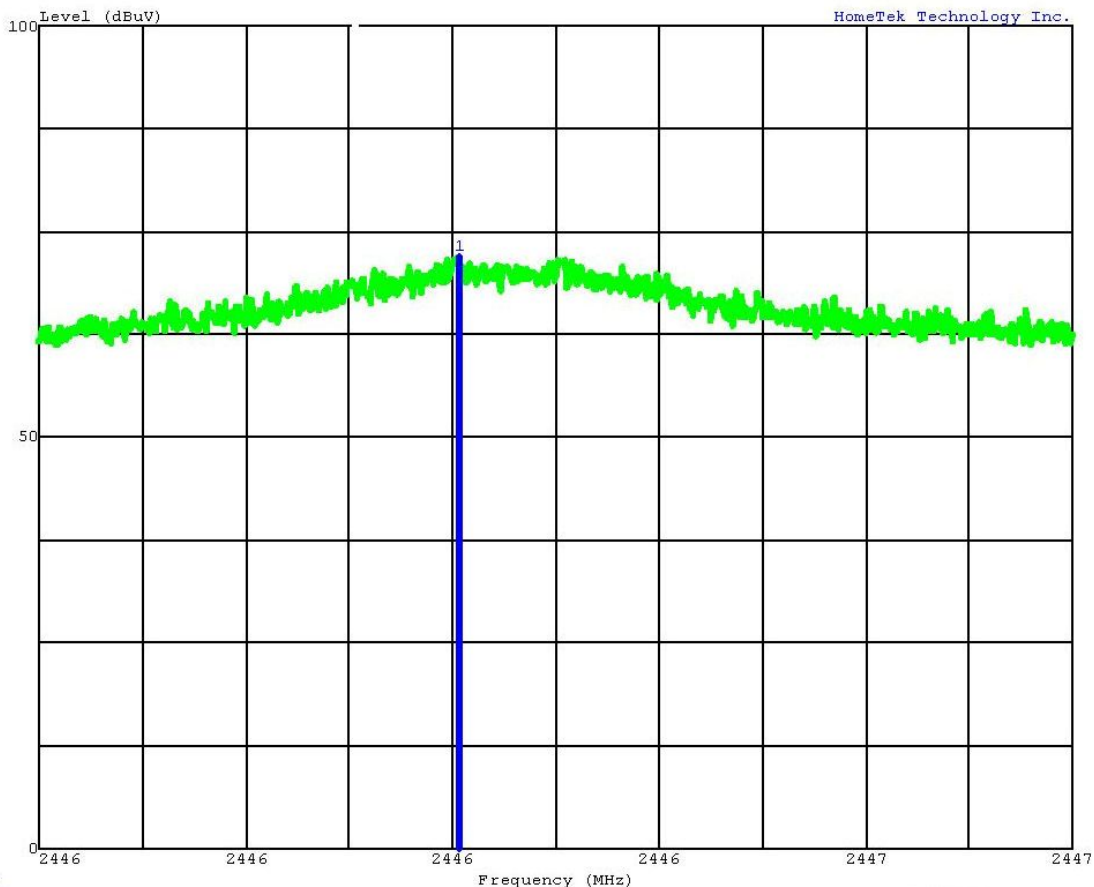


HomeTek Technology Inc.

Tel:02-22608375 Fax:02-22748013

Data#: 9 File#: E0805025.EMI

Date: 5-24,2008 Time: 23:04:29



Hometek
 Trace : 32
 Limit :
 Probe :
 Margin: -10.0dB
 EUT : PC2410
 Power : From PC
 Memo : 2446.336 MHz
 :
 :

Ref Trace:

Page: 1

Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
MHz	dB	dB	dB	dB	dB	dB	dB	
1 2446.109	72.09	-42.91	115.0	77.98	18.15	1.59	25.63	QP



16 RADIATED EMISSION TEST DATA (PAGE 9)

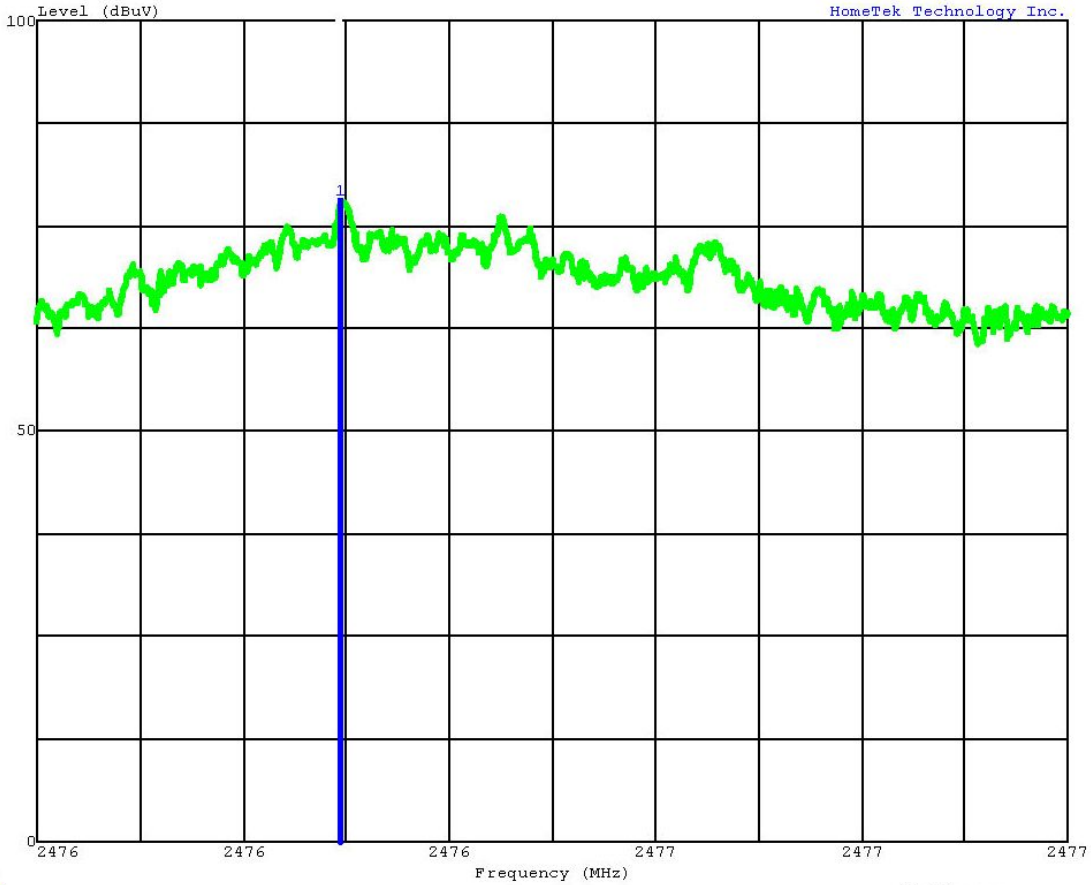


HomeTek Technology Inc.

Tel:02-22608375 Fax:02-22748013

Data#: 6 File#: E0805025.EMI

Date: 5-24,2008 Time: 22:35:49



Hometek
 Trace : 26
 Limit :
 Probe :
 Margin: -10.0dB
 EUT : PC2410
 Power : From PC
 Memo : 2475.008 MHz
 :
 :

Ref Trace:

Page: 1

Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
MHz	dB	dB	dB	dB	dB	dB	dB	
1 2476.295	78.11	-36.89	115.0	84.18	17.15	1.92	25.14	

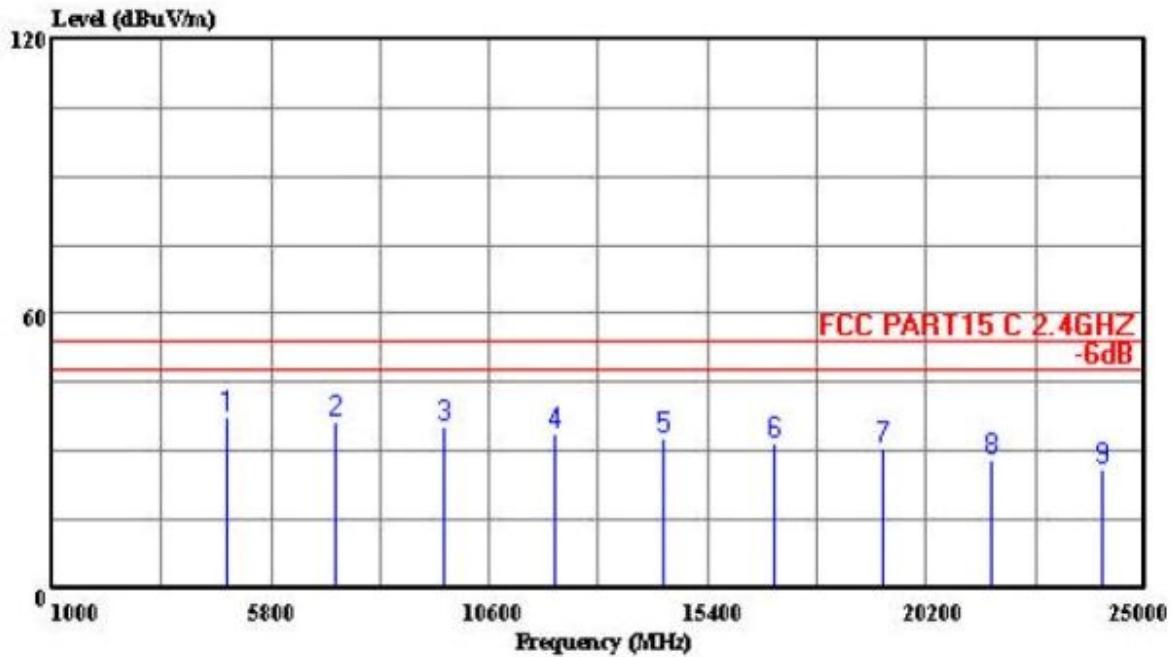
17 RADIATED EMISSION TEST DATA (PAGE 10)



HomeTek Technology Inc.
 Tel:02-22608375
 Fax:02-22748013

HomeTek Technology Inc.

Data#: 4 File#: E0805025.EMI Date: 2008-05-24 Time: 18:52:02



Trace:

Ref Trace:

Condition: FCC PART15 C 2.4GHZ 3m HORIZONTAL
 out : PC2410
 power: 110V/60Hz
 memo : TX MODE(Freq 2405.376MHz)

Page:

	Freq	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4810.920	37.29	54.00	-16.71	30.78	6.51	Peak
2	7215.050	36.58	54.00	-17.42	29.65	6.93	Peak
3	9620.470	35.16	54.00	-18.84	27.74	7.42	Peak
4	12025.480	33.54	54.00	-20.46	25.74	7.80	Peak
5	14430.740	32.59	54.00	-21.41	24.02	8.57	Peak
6	16835.860	31.58	54.00	-22.42	22.64	8.94	Peak
7	19240.340	30.51	54.00	-23.49	20.90	9.61	Peak
8	21645.290	28.16	54.00	-25.84	18.44	9.72	Peak
9	24050.170	26.16	54.00	-27.84	15.81	10.35	Peak



18 RADIATED EMISSION TEST DATA (PAGE 11)



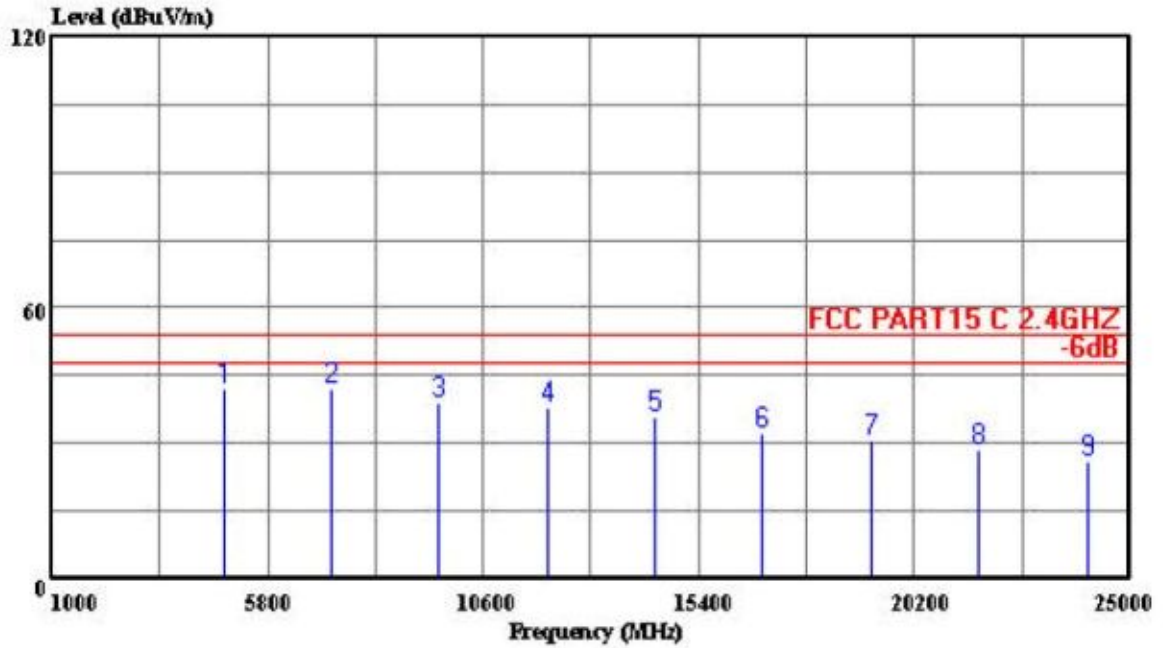
HomeTek Technology Inc.

HomeTek Technology Inc.

Tel:02-22608375

Fax:02-22748013

Data#: 3 File#: E0805025.EMI Date: 2008-05-24 Time: 18:15:21



Trace:

Ref Trace:

Condition: FCC PART15 C 2.4GHZ 3m VERTICAL

cut : PC2410

power: 110V/60Hz

memo : TX MODE(Freq 2405.376MHz)

Page:

	Freq	Level	Limit	Over	Read		Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	Factor	
				dB	dBuV	dB	
1	4810.920	41.87	54.00	-12.13	35.40	6.47	Peak
2	7215.580	42.20	54.00	-11.80	35.46	6.74	Peak
3	9620.460	39.04	54.00	-14.96	31.84	7.20	Peak
4	12025.420	37.83	54.00	-16.17	29.93	7.90	Peak
5	14430.500	35.80	54.00	-18.20	27.40	8.40	Peak
6	16835.790	32.45	54.00	-21.55	23.59	8.86	Peak
7	19240.510	30.42	54.00	-23.58	21.32	9.10	Peak
8	21645.300	28.62	54.00	-25.38	18.89	9.73	Peak
9	24050.620	26.15	54.00	-27.85	15.63	10.52	Peak

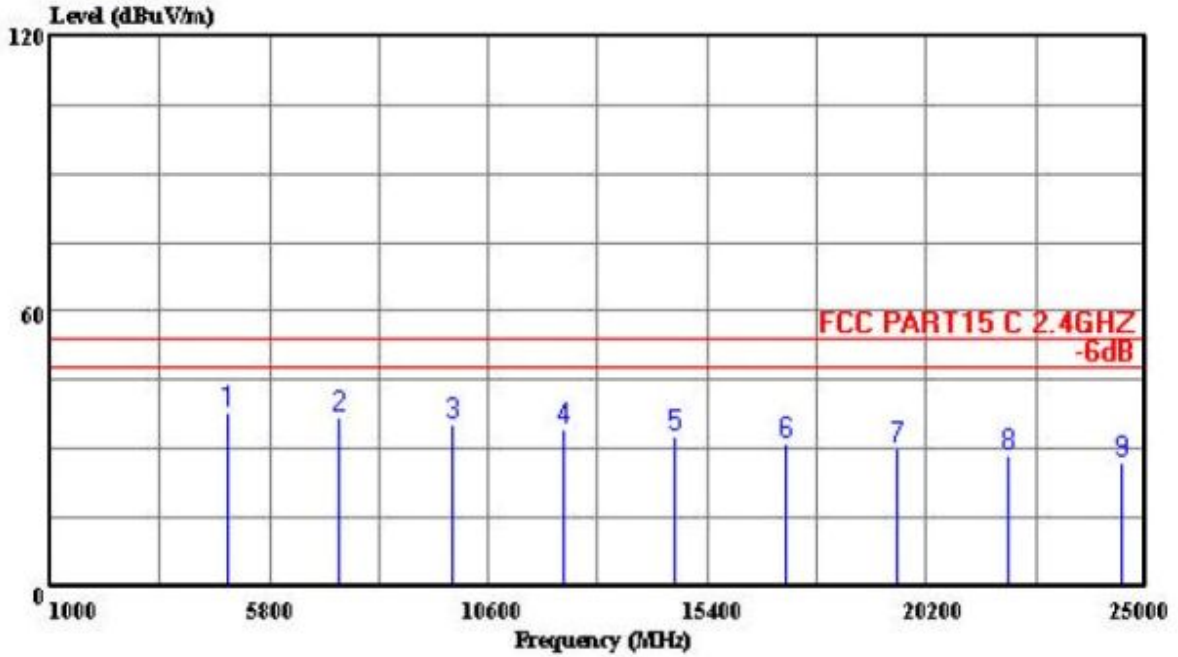
19 RADIATED EMISSION TEST DATA (PAGE 12)



HomeTek Technology Inc.

HomeTek Technology Inc.
 Tel:02-22608375
 Fax:02-22748013

Data#: 3 File#: E0805025.EMI Date: 2008-05-24 Time: 20:41:52



Trace:

Ref Trace:

Condition: FCC PART15 C 2.4GHZ 3m HORIZONTAL
 eut : PC2410
 power: 110V/60Hz
 memo : TX MODE (Freq 2446.336MHz)

Page:

	Freq	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4892.790	38.03	54.00	-15.97	31.47	6.56	Peak
2	7339.210	36.98	54.00	-17.02	30.09	6.89	Peak
3	9786.250	35.26	54.00	-18.74	27.90	7.36	Peak
4	12231.730	34.20	54.00	-19.80	26.38	7.82	Peak
5	14678.510	32.67	54.00	-21.33	23.97	8.47	Peak
6	17124.560	31.29	54.00	-22.71	22.49	8.80	Peak
7	19570.860	30.27	54.00	-23.73	20.93	9.34	Peak
8	22017.150	28.43	54.00	-25.57	18.54	9.89	Peak
9	24463.500	27.03	54.00	-26.97	16.76	10.27	Peak

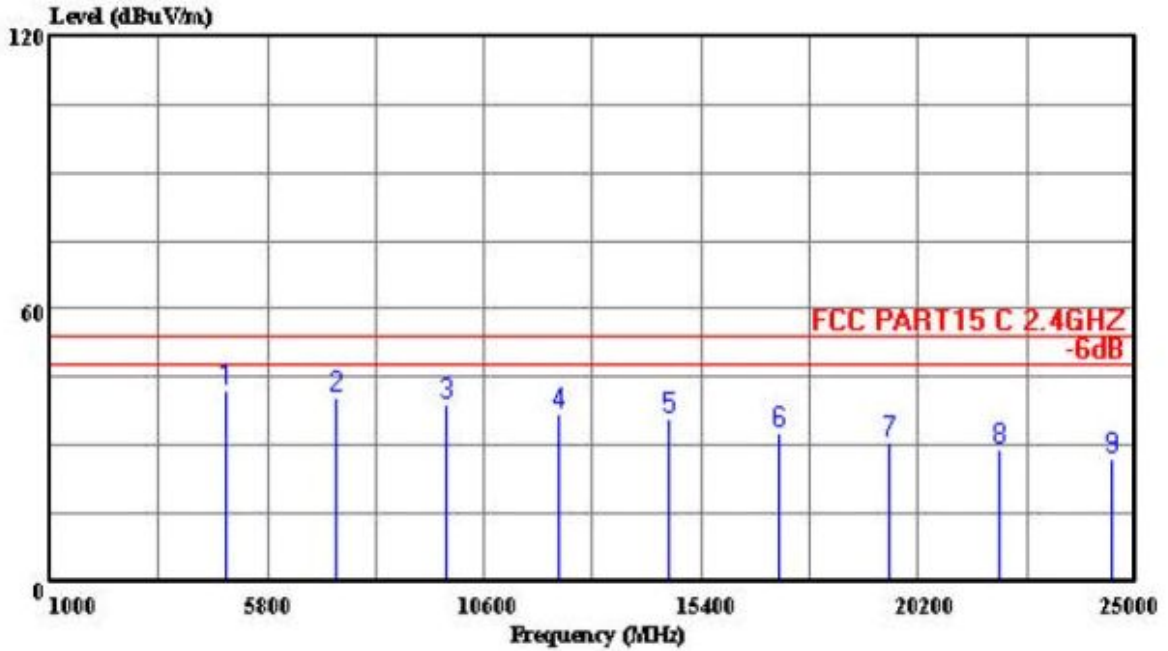
20 RADIATED EMISSION TEST DATA (PAGE 13)



HomeTek Technology Inc.

HomeTek Technology Inc.
 Tel:02-22608375
 Fax:02-22748013

Data#: 4 File#: E0805025.EMI Date: 2008-05-24 Time: 21:28:33



Trace:

Ref Trace:

Condition: FCC PART15 C 2.4GHZ 3m VERTICAL
 out : PC2410
 power: 110V/60Hz
 memo : TX MODE (Freq 2446.336MHz)

Page:

	Freq	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4892.680	42.17	54.00	-11.83	35.59	6.58	Peak
2	7339.570	40.53	54.00	-13.47	33.62	6.91	Peak
3	9785.640	39.15	54.00	-14.85	32.12	7.03	Peak
4	12231.580	37.00	54.00	-17.00	29.44	7.56	Peak
5	14677.820	35.76	54.00	-18.24	27.64	8.12	Peak
6	17124.690	32.57	54.00	-21.43	23.73	8.84	Peak
7	19570.930	30.58	54.00	-23.42	21.24	9.34	Peak
8	22017.410	28.95	54.00	-25.05	19.28	9.67	Peak
9	24463.570	27.05	54.00	-26.95	16.80	10.25	Peak



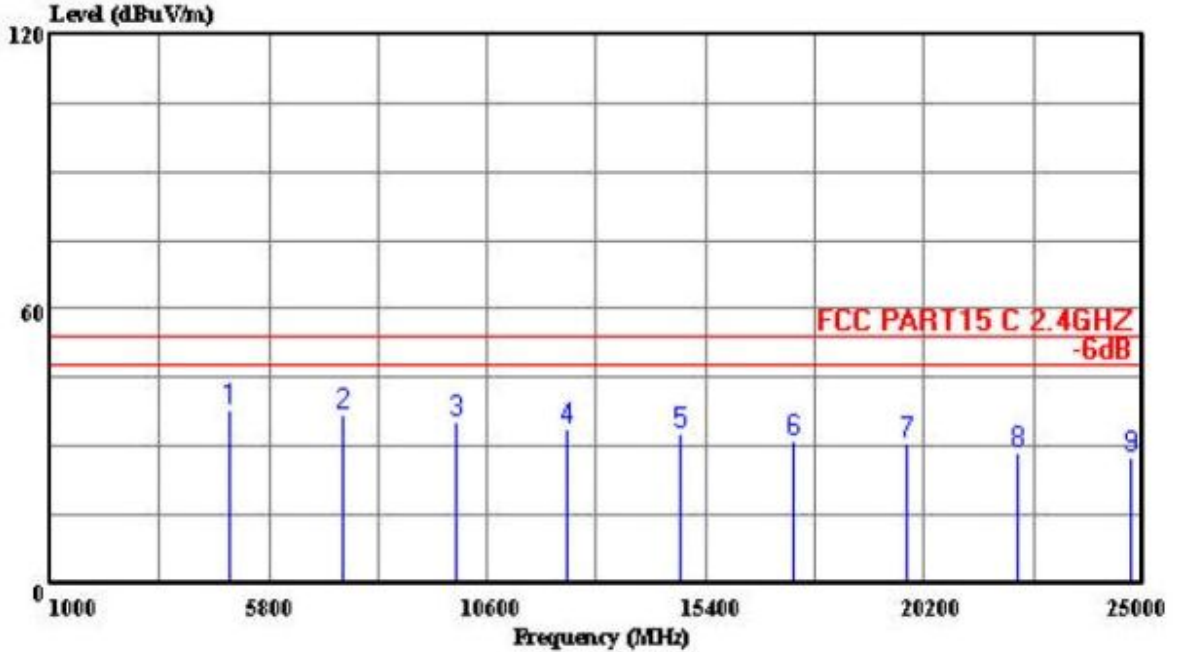
21 RADIATED EMISSION TEST DATA (PAGE 14)



HomeTek Technology Inc.

HomeTek Technology Inc.
Tel:02-22608375
Fax:02-22748013

Data#: 2 File#: E0805025.EMI Date: 2008-05-24 Time: 20:04:52



Trace:

Ref Trace:

Condition: FCC PART15 C 2.4GHZ 3m HORIZONTAL
cut : PC2410
power: 110V/60Hz
memo : TX MODE (Freq 2475.008MHz)

Page:

	Freq	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	4950.370	38.06	54.00	-15.94	31.71	6.35	Peak
2	7425.370	37.07	54.00	-16.93	30.20	6.87	Peak
3	9900.750	35.54	54.00	-18.46	28.09	7.45	Peak
4	12375.260	33.56	54.00	-20.44	25.69	7.87	Peak
5	14851.560	32.51	54.00	-21.49	23.95	8.56	Peak
6	17325.970	31.27	54.00	-22.73	22.46	8.81	Peak
7	19800.720	30.62	54.00	-23.38	21.26	9.36	Peak
8	22275.030	28.61	54.00	-25.39	18.90	9.71	Peak
9	24750.370	27.58	54.00	-26.42	17.33	10.25	Peak



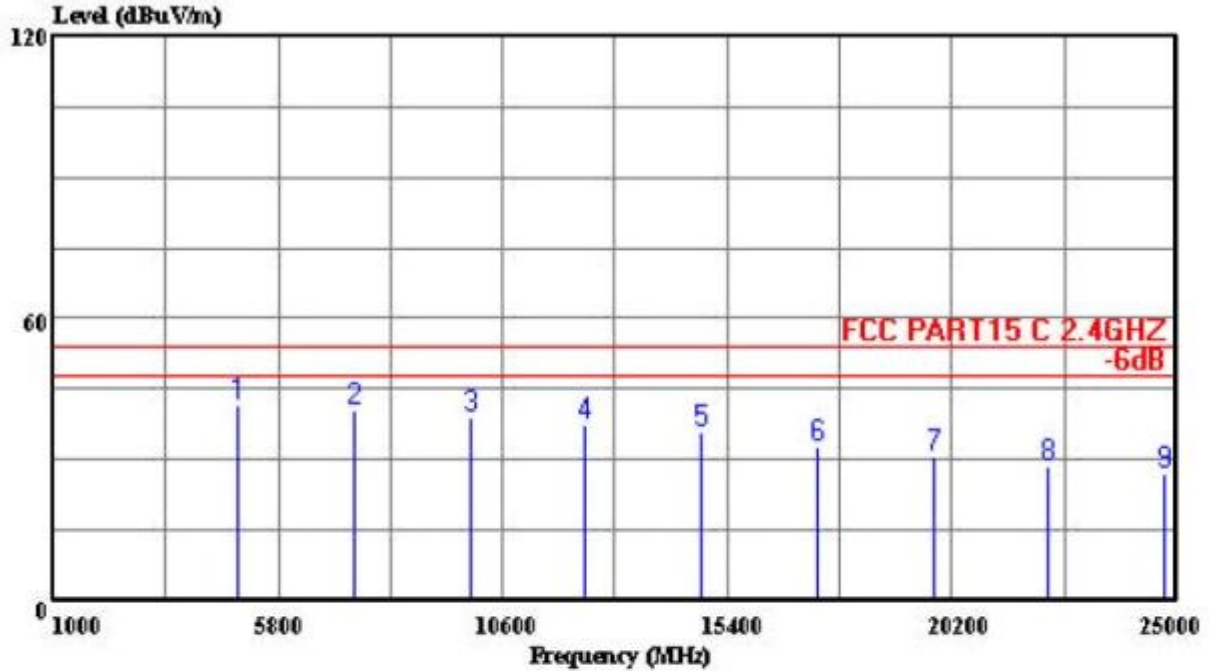
22 RADIATED EMISSION TEST DATA (PAGE 15)



HomeTek Technology Inc.

HomeTek Technology Inc.
Tel:02-22608375
Fax:02-22748013

Data#: 1 File#: E0805025.EMI Date: 2008-05-24 Time: 19:31:56



Trace:

Ref Trace:

Condition: FCC PART15 C 2.4GHZ 3m VERTICAL
cut : PC2410
power: 110V/60Hz
memo : TX MODE (Freq 2475.008MHz)

Page:

	Freq	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
				dB	dBuV	dB	
1	4950.530	41.50	54.00	-12.50	35.26	6.24	Peak
2	7425.350	40.59	54.00	-13.41	33.78	6.81	Peak
3	9900.240	38.92	54.00	-15.08	31.57	7.35	Peak
4	12375.690	37.16	54.00	-16.84	29.48	7.68	Peak
5	14850.370	35.67	54.00	-18.33	27.33	8.34	Peak
6	17325.190	32.85	54.00	-21.15	23.88	8.97	Peak
7	19800.750	30.61	54.00	-23.39	20.98	9.63	Peak
8	22275.340	28.64	54.00	-25.36	19.01	9.71	Peak
9	24750.160	26.83	54.00	-27.17	16.49	10.34	Peak

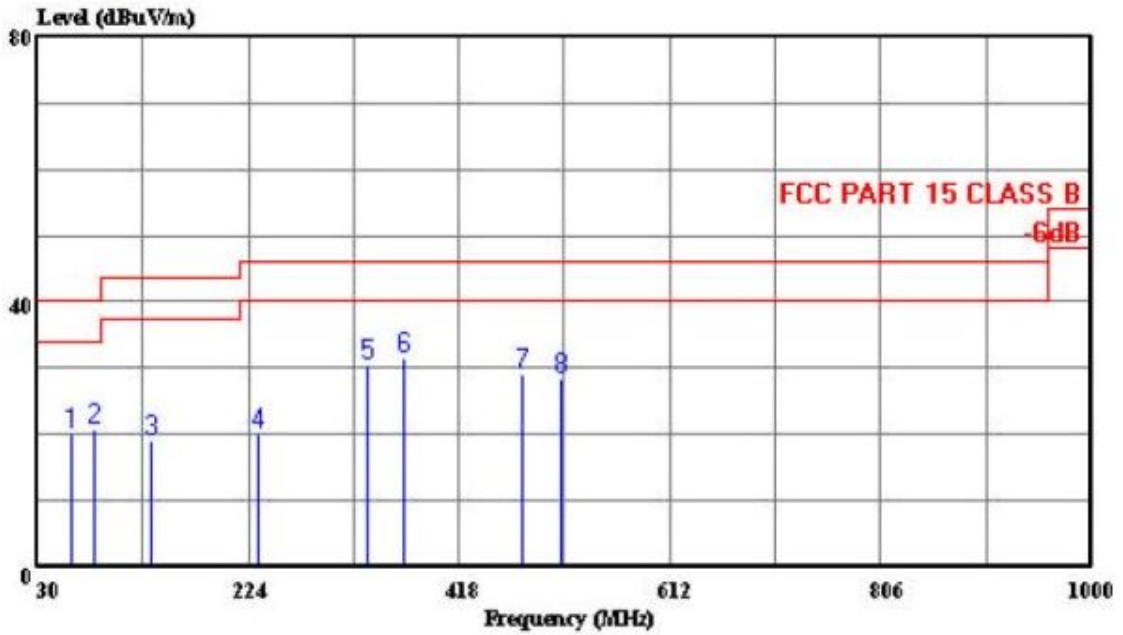
23 RADIATED EMISSION TEST DATA (PAGE 16)



HomeTek Technology Inc.

HomeTek Technology Inc.
 Tel:02-22608375
 Fax:02-22748013

Data#: 1 File#: E0805025.EMI Date: 2008-05-24 Time: 14:02:35



Trace:

Ref Trace:

Condition: FCC PART 15 CLASS B 3m LPB-250/A-031028_3 HORIZONTAL
 eut : PC2410
 power: 110V/60Hz
 memo : WORKING MODE

Page:

	Freq	Level	Limit	Over	Read		
	MHz	dBuV/m	dBuV/m	Limit	Level	Factor	Remark
				dB	dBuV	dB	
1	61.040	20.00	40.00	-20.00	28.70	-8.70	Peak
2	82.380	20.78	40.00	-19.22	33.60	-12.82	QP
3	135.730	19.10	43.50	-24.40	32.20	-13.10	QP
4	233.700	20.15	46.00	-25.85	31.90	-11.75	Peak
5	333.610	30.54	46.00	-15.46	36.20	-5.66	Peak
6	367.560	31.52	46.00	-14.48	36.30	-4.78	Peak
7	476.200	28.95	46.00	-17.05	34.00	-5.05	Peak
8	512.090	28.51	46.00	-17.49	30.80	-2.29	Peak

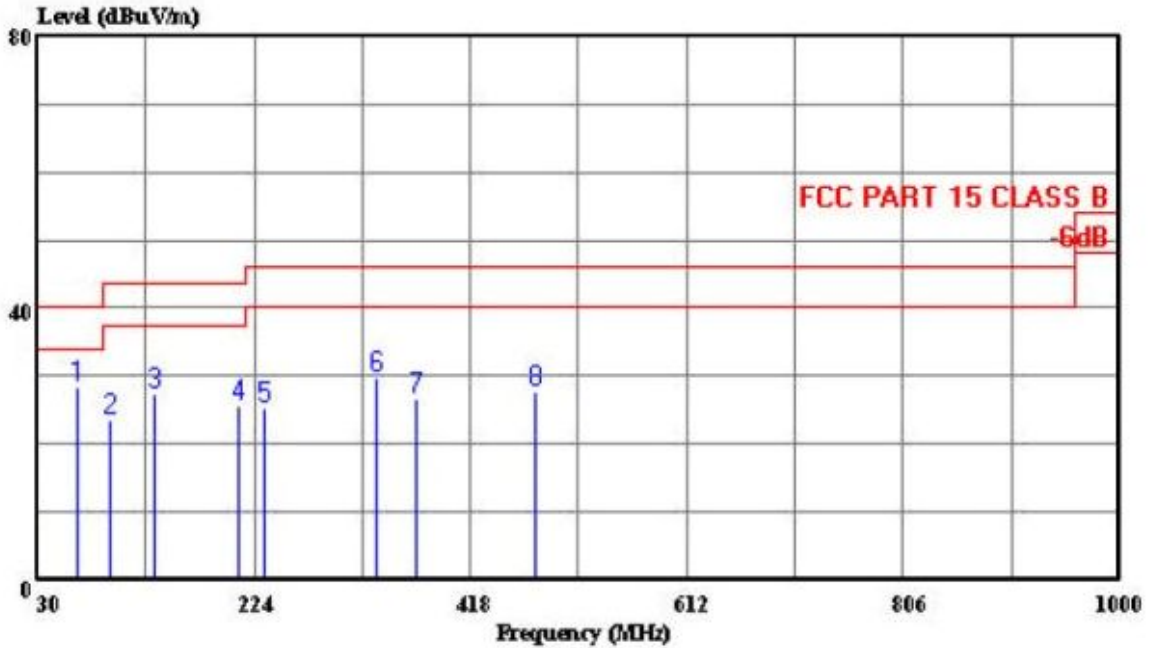
24 RADIATED EMISSION TEST DATA (PAGE 17)



HomeTek Technology Inc.

HomeTek Technology Inc.
 Tel:02-22608375
 Fax:02-22748013

Data#: 2 File#: E0805025.EMI Date: 2008-05-24 Time: 14:56:31



Trace:

Ref Trace:

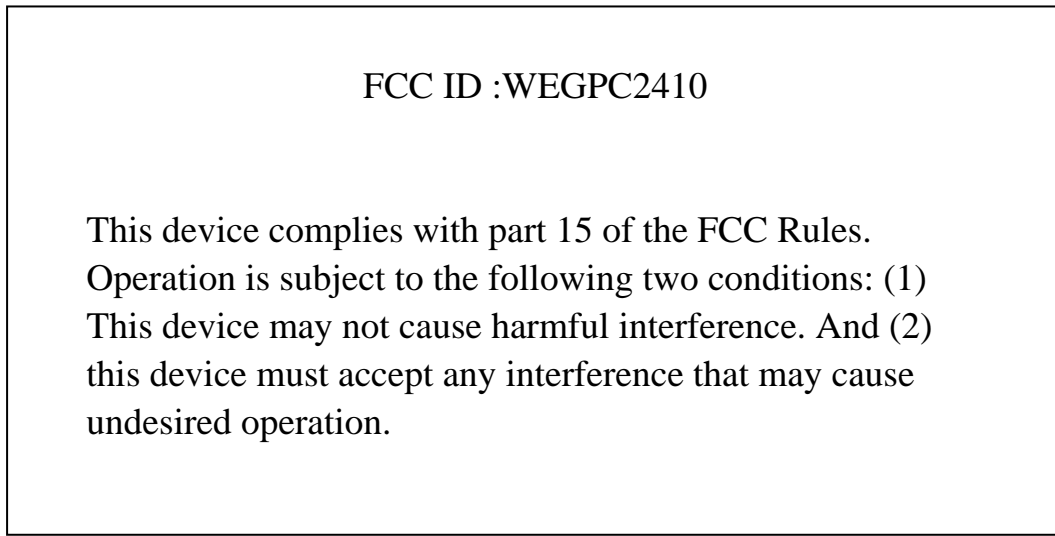
Condition: FCC PART 15 CLASS B 3m LPB-250/A-031028_3 VERTICAL
 out : PC2410
 power: 110V/60Hz
 memo : WORKING MODE

Page:

	Freq	Level	Limit	Over	Read		
	MHz	dBuV/m	Line	Limit	Level	Factor	Remark
			dBuV/m	dB	dBuV	dB	
1	64.920	28.34	40.00	-11.66	40.30	-11.96	Peak
2	94.990	23.39	43.50	-20.11	30.70	-7.31	QP
3	135.730	27.40	43.50	-16.10	36.10	-8.70	QP
4	209.450	25.57	43.50	-17.93	33.70	-8.13	Peak
5	233.700	25.41	46.00	-20.59	33.20	-7.79	Peak
6	333.610	29.79	46.00	-16.21	32.70	-2.91	Peak
7	368.530	26.64	46.00	-19.36	30.50	-3.86	Peak
8	476.200	27.71	46.00	-18.29	29.20	-1.49	Peak

PHOTO OF FCC ID LABEL

SAMPLE OF FCC ID LABEL :

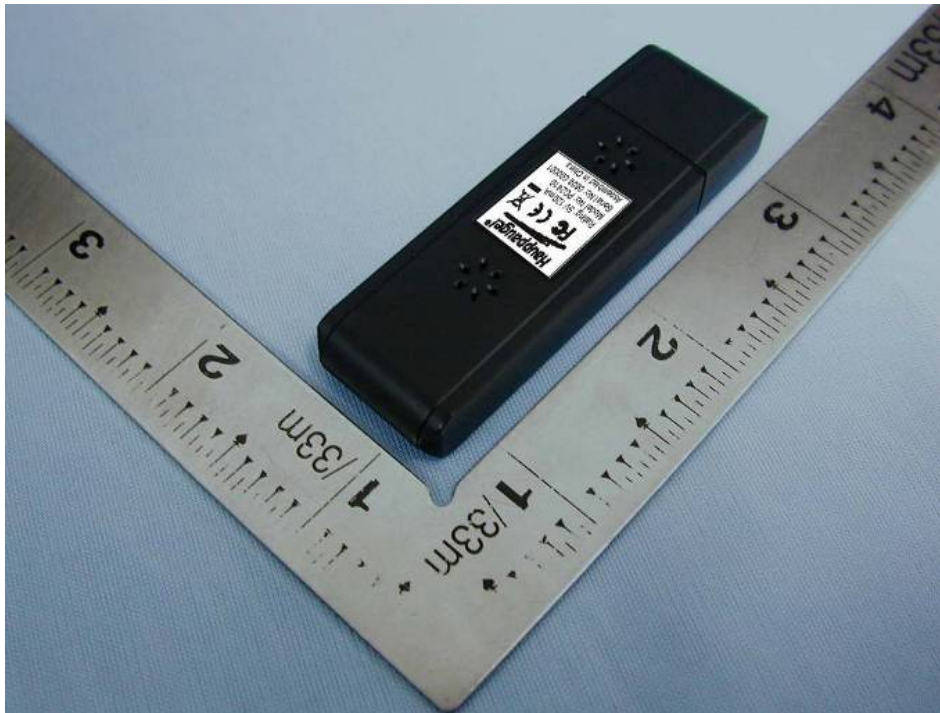


Please refer to appendix B photo of ID location.



Appendix A
FCC ID Label and Location Photos of EUT

Label Photo And Location



Full View Label of EUT(TX)

FCC ID: WEGPC2410

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1)

This device may not cause harmful interference. And (2)

this device must accept any interference received, including interference that may cause undesired operation.

Label

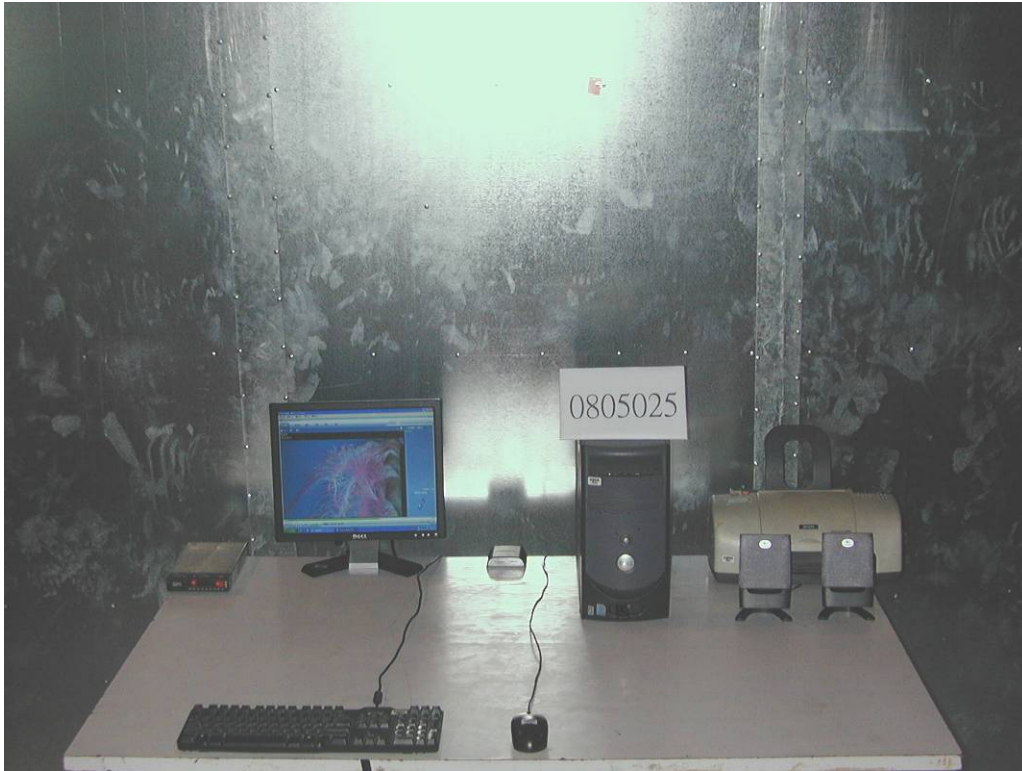


Appendix B

Photos of Test Setup

PHOTOS OF CONDUCTED EMISSION TEST

Model: PC2410



Front View

PHOTOS OF RADIATED EMISSION TEST

Model: PC2410



Front View



Rear View

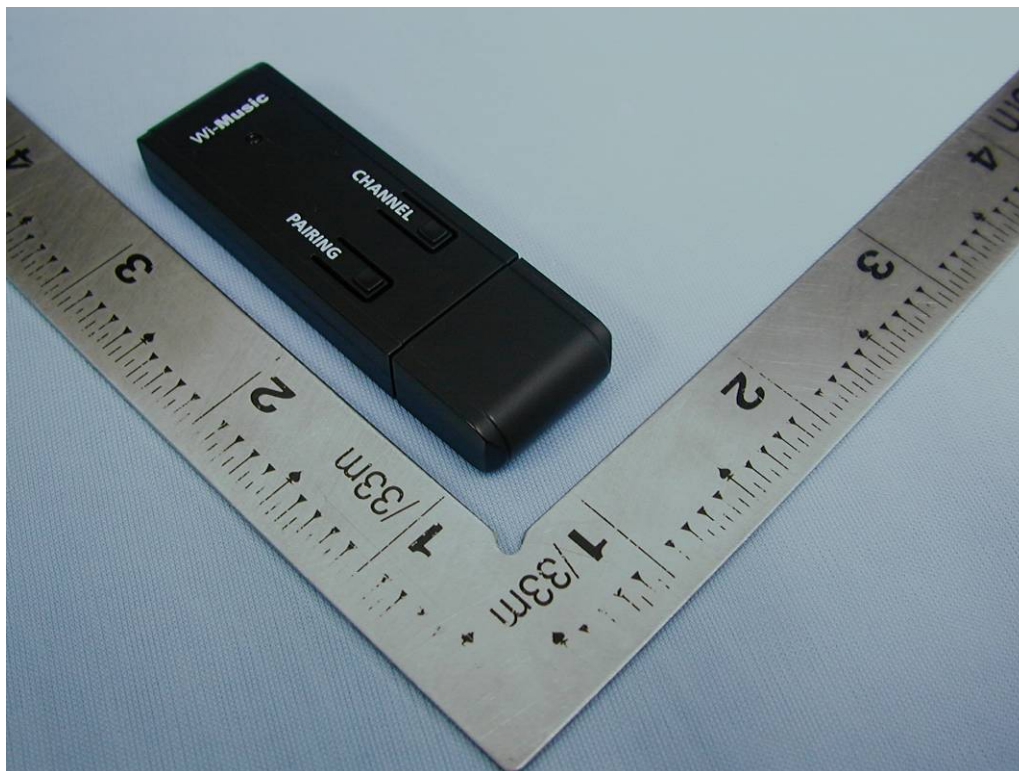


Appendix C

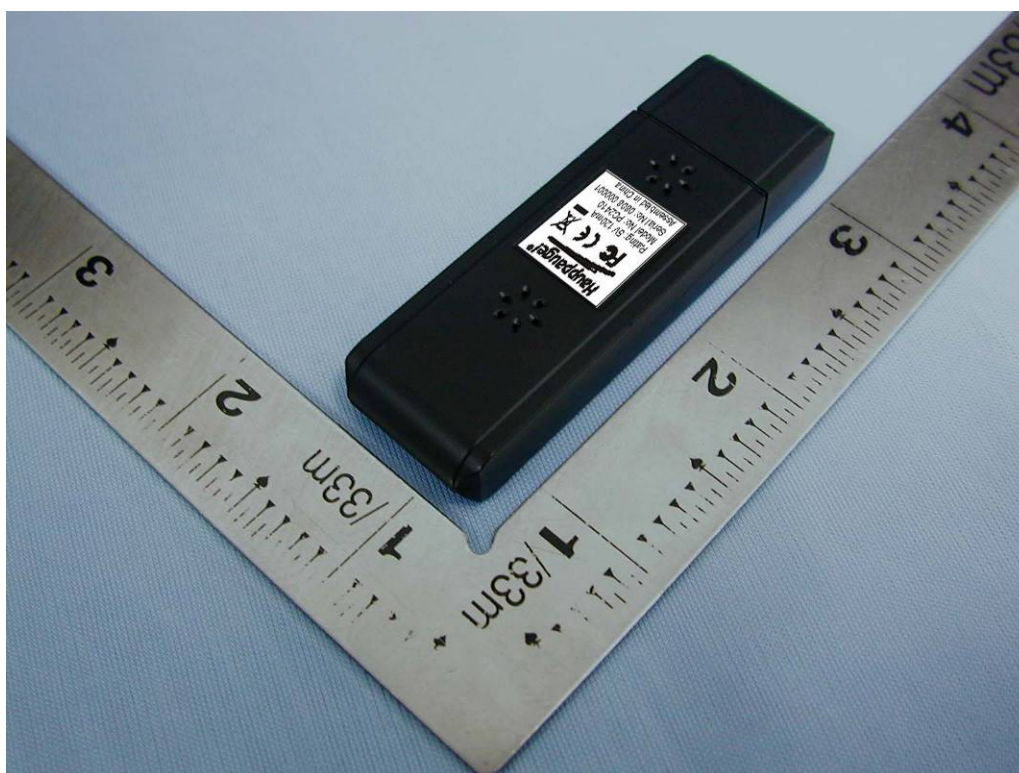
External Photos of EUT

PHOTO OF EUT

Model : PC2410



Front View of EUT (TX)



Rear View of EUT (TX)

PHOTO OF EUT

Model : PC2410



Front View of RX



Rear View of RX

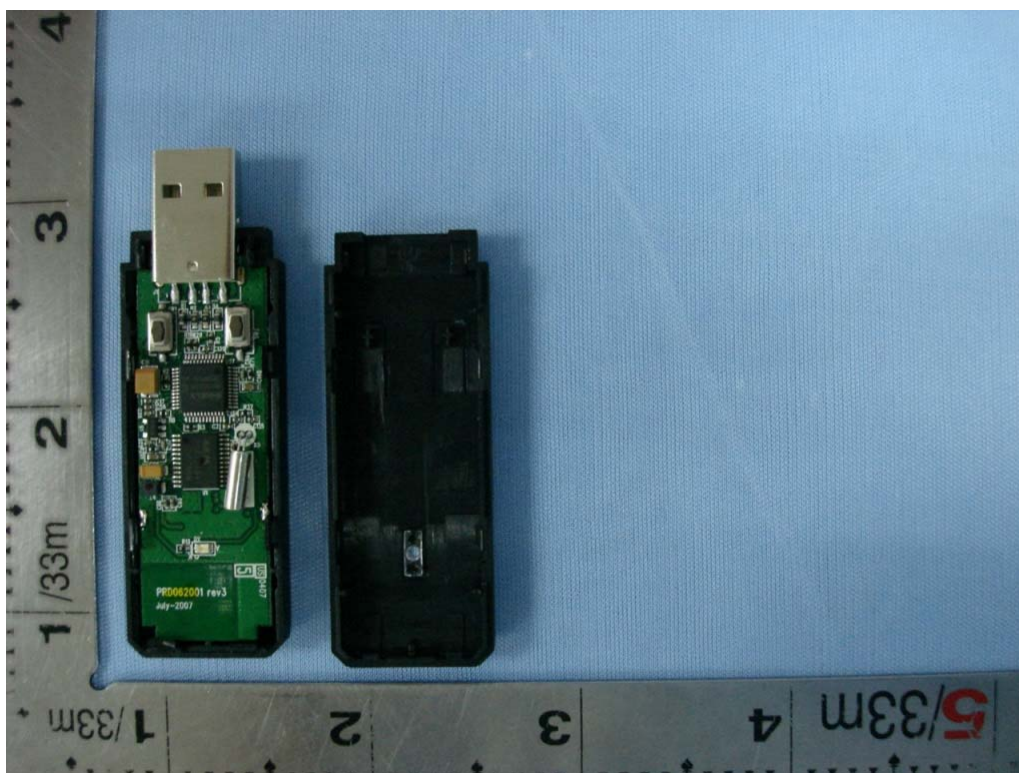


Appendix D

Internal Photos of EUT

PHOTO OF EUT

Model : PC2410



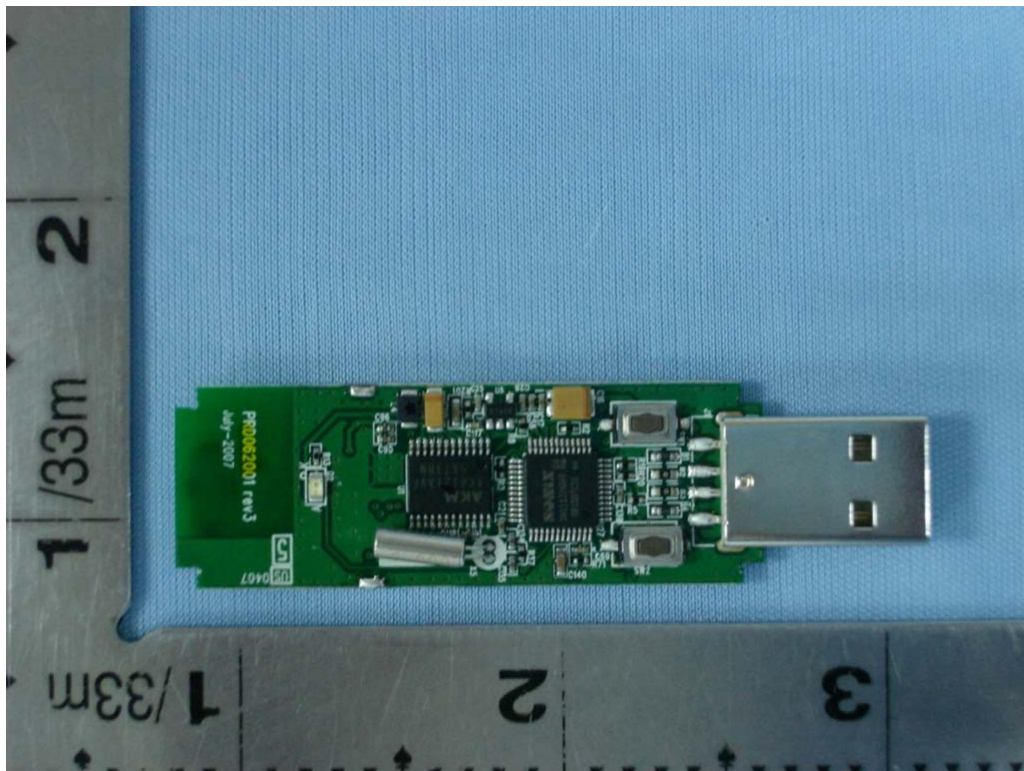
Inside View of TX



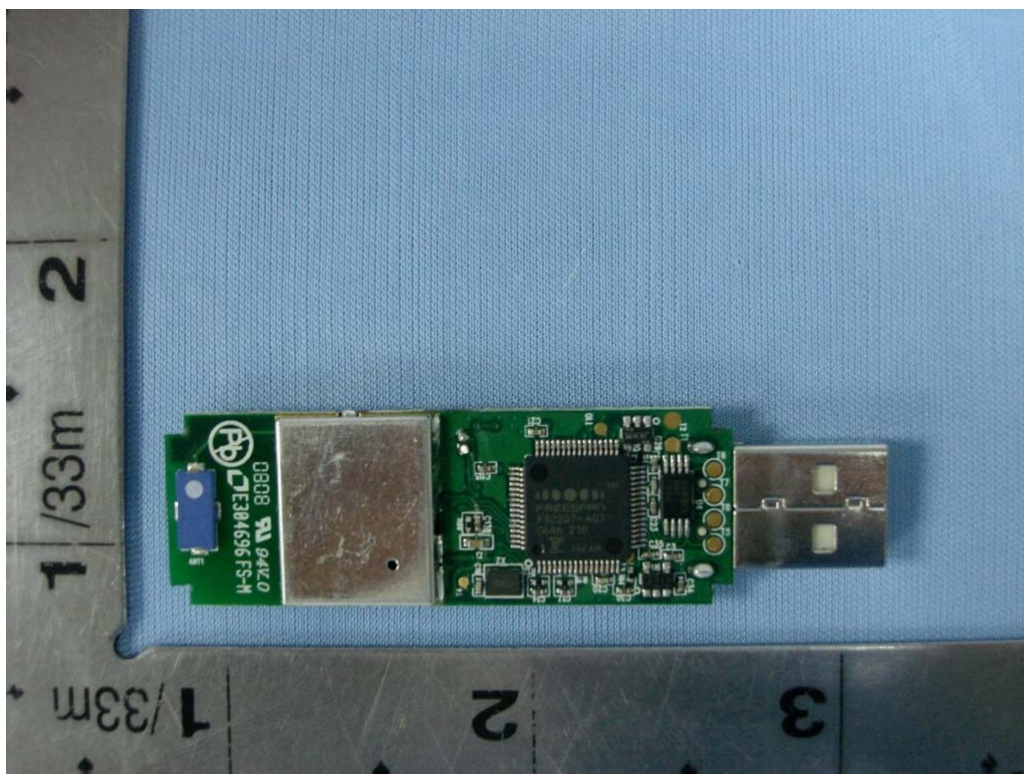
Inside View of RX

PHOTO OF EUT

Model : PC2410



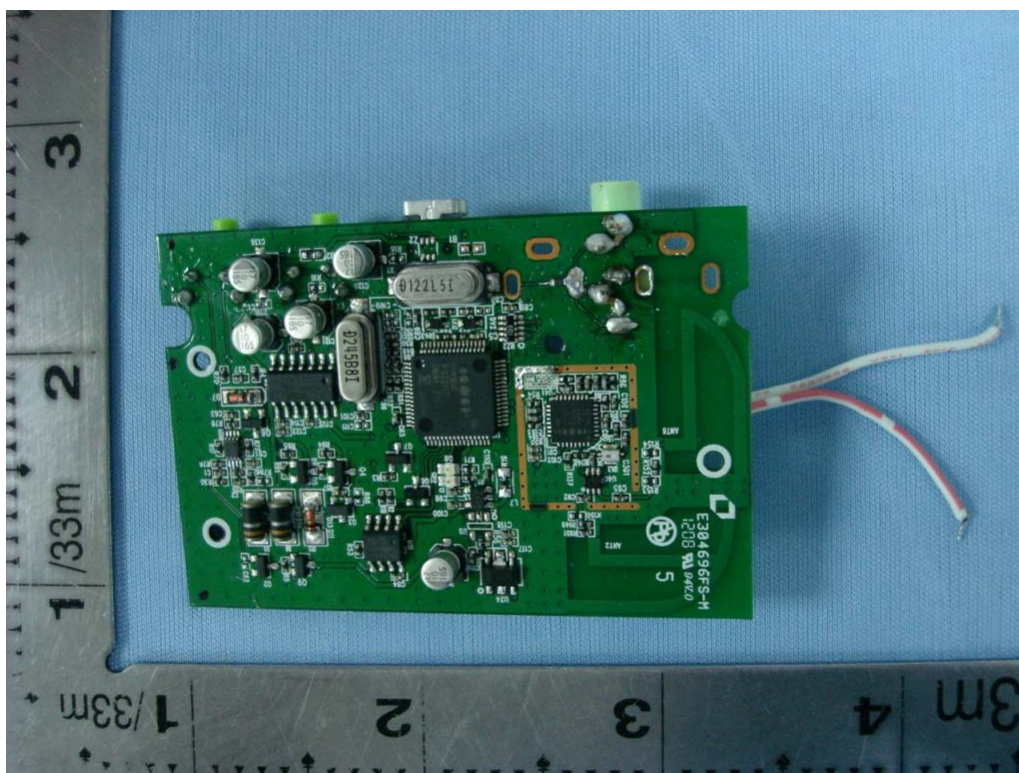
Full View of Component Side of TX



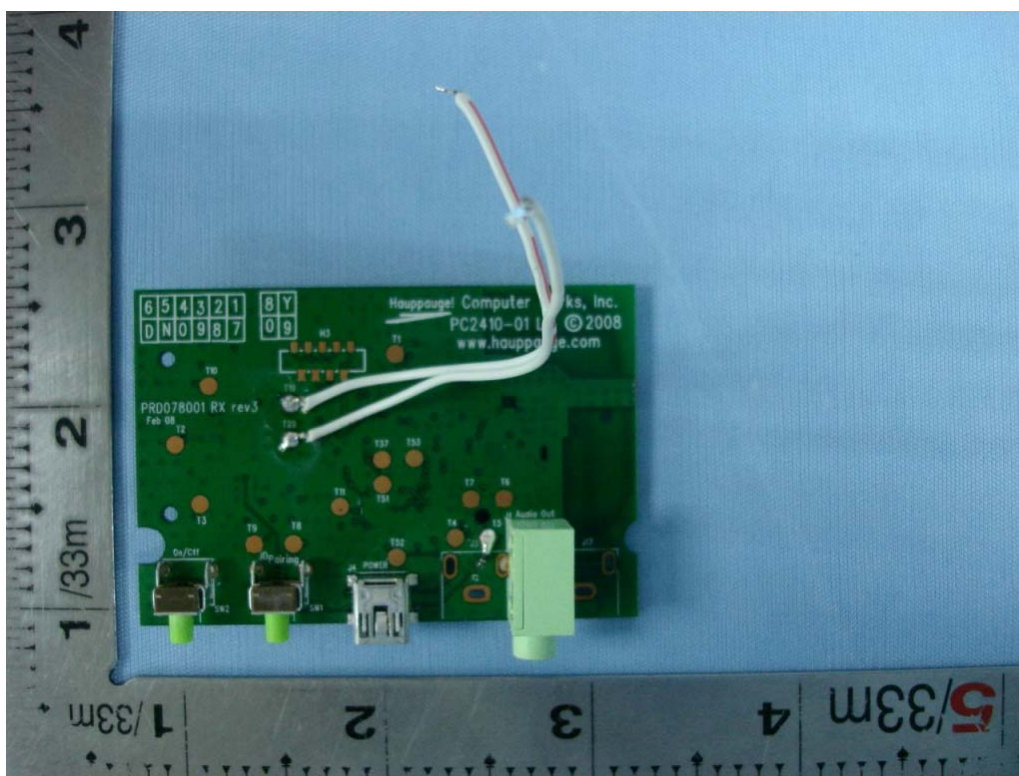
Full View of Solder Side of TX

PHOTO OF EUT

Model : PC2410



Full View of Component Side of RX



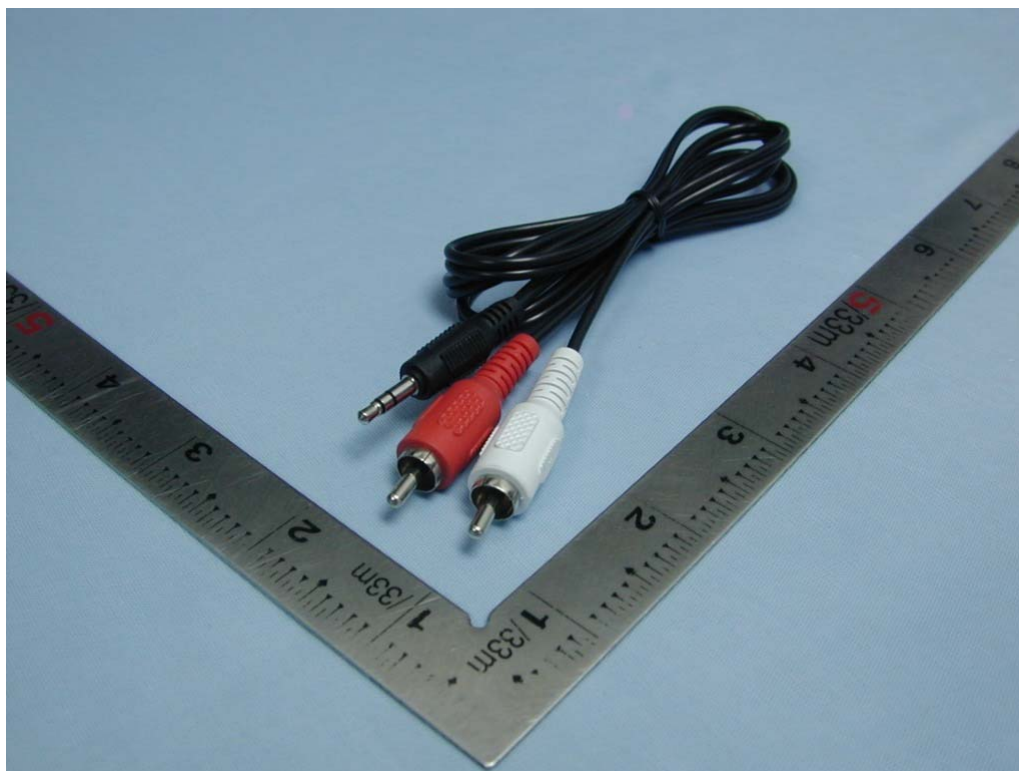
Full View of Solder Side of RX

PHOTO OF EUT

Model : PC2410



Full View of AC Adaptor



Full View of AV Cable



Appendix E

Plot of Occupied Bandwidth

2.4 GHz

