FCC PART 15.249 EMI MEASUREMENT AND TEST REPORT

For

Joyplus International Enterprise Limited

805 Technology Building, Duoli Industrial Park, Shangmeilin, Meihua Road, Futian Dist., Shenzhen, China

FCC ID: Z4UNVT21204

May 30, 2012

This Report Concerns: Equipment Type:

Original Report USB Bluetooth Dongle

Test Engineer: Eric Li

Report No.: BST12050221Y-1E-3-2

Receive EUT
Date/Test Date:

May 10, 2012/ May 11-29, 2012

Reviewed By
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1. GENERAL INFORMATION

1.1. Report information

- 1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BST approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BST in any way guarantees the later performance of the product/equipment.
- 1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BST therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BST, unless the applicant has authorized BST in writing to do so.

Test Facility -

The test site used to collect the radiated data is located on the address of Shenzhen Certification Technology Service Co., Ltd (FCC Registered Test Site Number: 197647) on 2F, Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road, Bao'an District, shenzhen 518126, China The Test Site is constructed and calibrated to meet the FCC requirements.

1.2. Measurement Uncertainty

Available upon request.

2. PRODUCT DESCRIPTION

2.1. EUT Description

Applicant : Joyplus International Enterprise Limited

Address : 805 Technology Building, Duoli Industrial Park, Shangmeilin,

Meihua Road, Futian Dist., Shenzhen, China

Manufacturer : Joyplus International Enterprise Limited

Address : 805 Technology Building, Duoli Industrial Park, Shangmeilin,

Meihua Road, Futian Dist., Shenzhen, China

EUT Description : Tablet PC

Trade Name : JOYPLUS

Frequency Band : 2402-2480MHz

Number of Channels : 79

Model Number : M97B

Power Supply : DC 12V (Powered by Adapter) or DC 7.4V (Li-ion battery)

Antenna gain : 0dBi(2.4GHz)

2.2. Block Diagram of EUT Configuration

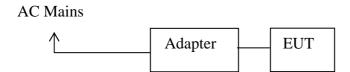


Figure 1 EUT Setup

2.3. Support Equipment List

Name	Model No	S/N	Manufacturer	Used ""
Adapter Input: AC 100-240V, 50/60Hz, 1.5A Output: DC 12V, 2A	DJ-U48S1202		Dajing	

2.4. Test Conditions		
Temperature: 20~25 Relative Humidity: 50~63 %		
Relative Humany. 30 403 /6		

3. FCC ID LABEL

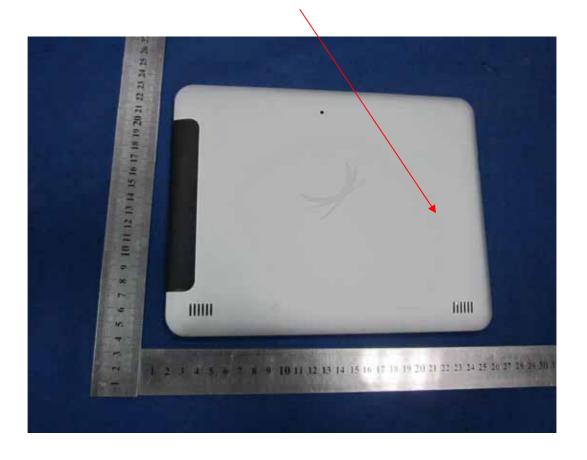
FCC ID: Z4UNVT21204

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 Location on EUT

EUT View/ FCC ID Label Location



4. TEST RESULTS SUMMARY

FCC 15 Subpart C, Paragraph 15.249

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	Compliant
Section 15.249(a)	The fundamental field strength and the harmonics	Compliant
Section 15.209 Section 15.249(d)	Radiated Emission	Compliant
Section 15.249(d)	Band Edge	Compliant
Section 15.203	Antenna Requirement	Compliant

Statement: All testing was performed using the test procedures found in ANSI C63.4-2003.

Modifications

No modification was made.

5. TEST EQUIPMENT USED

Equipment/Facilities	Manufacturer	Model #	Serial no.	Date of Cal.	Cal. Interval
Cable	Resenberger	N/A	NO.1	Mar 10 , 2012	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Mar 10 , 2012	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Mar 10 , 2012	1 Year
LISN	Rohde & Schwarz	ESH3-Z5	100305	Mar 10 , 2012	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10 , 2012	1 Year
EMI Test Receiver	Rohde & Schwarz	ESP13	100180	Oct.11,2011	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSP40	100273	Sep.10,2011	1 Year
3m Semi-Anechoic Chamber	Albatross Projects	9m×6m×6m	N/A	Feb.20,2012	1 Year
Signal Generator	FLUKE	PM5418 + Y/C	LO747012	Feb.20,2012	1 Year
Signal Generator	FLUKE	PM5418TX	LO738007	Feb.20,2012	1 Year
Loop Antenna	SCHWARZBECK	FMZB1516	113	Jan.30,2012	1 Year
Trilog-Super Broadband Antenna	SCHWARZBECK	VULB9161	9161-4079	Sep.22,2011	1 Year
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-564	Sep.22,2011	1 Year
Horn Antenna	Schwarzbeck	BBHA9170	208 279	May 12, 2012	1 Year
Ultra Broadband Antenna	Rohde & Schwarz	HL-562	100110	June.15,2011	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100196	Oct.11,2011	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100197	Oct.11,2011	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A
Power Meter	Rohde & Schwarz	NRVD	100041	Feb.20,2012	1 Year
EMI Test Receiver	Rohde & Schwarz	ESCS30	100003	Feb.20,2012	1 Year
Coaxial Cable with N-connectors	SCHWARZBECK	AK9515H	95549	Sep.22,2011	1 Year
Radio Communication Test Set	Rohde & Schwarz	CMS 54	846621/024	Feb.20,2012	1 Year
Modulation Analyzer	Hewlett-Packard	8901B	2303A00362	Feb.20,2012	1 Year
Absorbing clamp	Rohde & Schwarz	MDS-21	N/A	Oct.11,2011	1 Year

6. ANTENNA REQUIREMENT

6.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

6.2. ANTENNA CONNECTED CONSTRUCTION

According to § 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The antenna used for this product is a short metal soldered wire. The antenna is permanently attached. Refer to the product photo.

6.3. Result

Compliance

BST FCC ID REPORT: BST12050221Y-1E-3-2

7. CONDUCTED POWER LINE TEST

7.1. Test Equipment

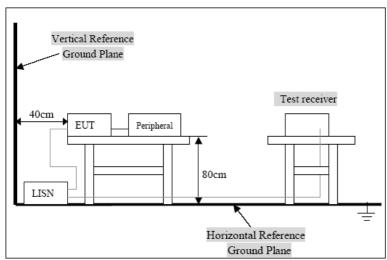
Please refer to section 5 this report.

7.2. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uh coupling inpedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uh coupling inpedance with 500hm termination.

Both sides of A.C. Line are check for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ASIN C63.4:2003 on conducted measurement. Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9Khz.

7.3. Test Setup



For the actual test configuration, Please refer to the related items-Photos of testing

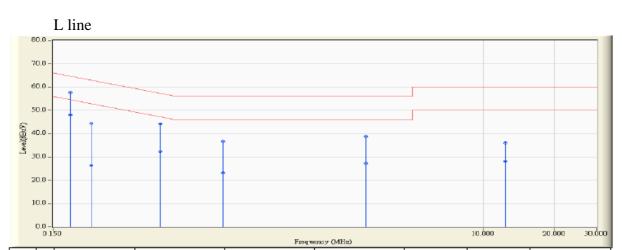
7.4. Conducted Power line Emission Limits

FCC Part 15 Paragraph 15.207 (dBuV)					
Frequency Range (MHZ)	Class B QP/AV				
0.15-0.5	79/66	65-56/56-46			
0.5-5.0	73/60	56-46			
5.0-3.0	73/60	60-50			

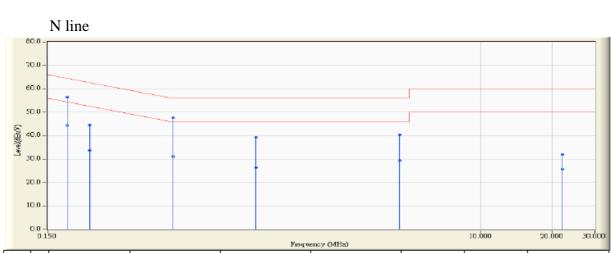
Note: In the above table, the tighter limit applies at the band edges.

7.5. Conducted Power Line Test Result

Pass.



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV)	(dB)	(dBuV)	
1		0.178	9.600	48.143	57.743	-6.836	64.578	QUASIPEAK
2	*	0.178	9.600	38.376	47.976	-6.602	54.578	AVERAGE
3		0.218	9.600	34.899	44.499	-18.396	62.895	QUASIPEAK
4		0.218	9.600	16.716	26.316	-26.579	52.895	AVERAGE
5		0.426	9.610	34.578	44.188	-13.142	57.330	QUASIPEAK
6		0.426	9.610	22.882	32.492	-14.838	47.330	AVERAGE
7		0.786	9.629	27.055	36.684	-19.316	56.000	QUASIPEAK
8		0.786	9.629	13.508	23.137	-22.863	46.000	AVERAGE
9		3.158	9.819	28.970	38.789	-17.211	56.000	QUASIPEAK
10		3.158	9.819	17.526	27.345	-18.655	46.000	AVERAGE
11		12.302	10.141	25.931	36.073	-23.927	60.000	QUASIPEAK
12		12.302	10.141	17.991	28.132	-21.868	50.000	AVERAGE



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV)	(dB)	(dBuV)	
1	*	0.182	9.600	46.823	56.423	-7.971	64.394	QUASIPEAK
2		0.182	9.600	34.837	44.437	-9.957	54.394	AVERAGE
3		0.226	9.600	34.990	44.590	-18.006	62.595	QUASIPEAK
4		0.226	9.600	24.151	33.751	-18.844	52.595	AVERAGE
5		0.506	9.600	38.120	47.720	-8.280	56.000	QUASIPEAK
6		0.506	9.600	21.478	31.078	-14.922	46.000	AVERAGE
7		1.126	9.686	29.615	39.301	-16.699	56.000	QUASIPEAK
8		1.126	9.686	16.633	26.319	-19.681	46.000	AVERAGE
9		4.526	9.872	30.500	40.372	-15.628	56.000	QUASIPEAK
10		4.526	9.872	19.607	29.478	-16.522	46.000	AVERAGE
11		21.910	10.654	21.396	32.051	-27.949	60.000	QUASIPEAK
12		21.910	10.654	15.027	25.681	-24.319	50.000	AVERAGE

8. RADIATED EMISSION TEST

8.1. Test Equipment

Please refer to section 5 this report.

8.2. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Calibrated Loop antenna is used as receiving antenna for frequencies below 30MHz, Calibrated Bilog antenna is used as receiving antenna for frequencies between 30 MHz and 1 GHz, Calibrated Horn antenna is used as receiving antenna for frequencies above 1000MHz. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

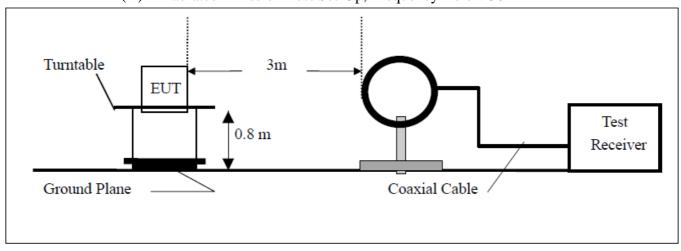
The frequency range from 9kHz to 25GHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Peak detector and Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

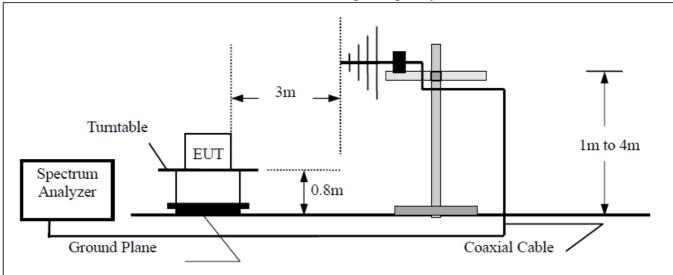
Through three orthogonal axes to determine which attitude and equipment arrangement produces the highest emission relative to the limit.

8.3. Radiated Test Setup

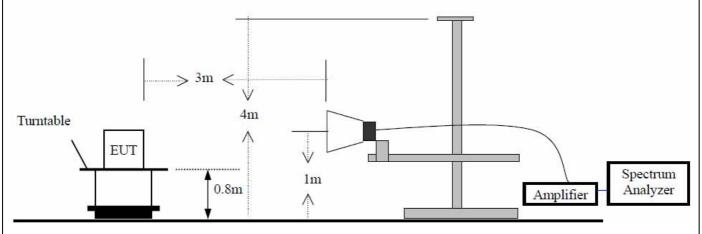
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



8.4. Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A . Fundamental and Harmonics Radiated Emissions 15.249(a) Limit

Fundamental Frequency	Field as trength of Fundamental(3m)			Field as trength of Harmonics(3m)		
(MHZ)	mV/m	dBuV/m		uV/m	dBuV/m	
902~928	50	94(AV)	114(Peak)	500	54(AV)	74(Peak)
2400~2483.5	50	94(AV)	114(Peak)	500	54(AV)	74(Peak)

ote: (1) RF Voltage (dBuV)=20 log Voltage(uV)

- (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (3) The emission limit in this paragraph os based on measurement instrumentation employing an average detector. Measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

B. Spurious Radiated Emissions.

	Limit					
Frequency (MHz)	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dBµV/m)	Measurement distance (m)	The final measurement in band 9-90kHz,		
0.009 - 0.490	2400/F(kHz)	/	300	110-490kHz and above 1000MHz is		
0.490 - 1.705	24000/F(kHz)	/	30	performed with		
1.705-30	30	29.5	30	Average detector. Except those		
30 - 88	100	40	3	frequency bands mention above, the		
88 - 216	150	43.5	3	final measurement for frequencies		
216 - 960	200	46	3	below 1000MHz is		
Above 960	500	54	3	performed with Quasi Peak detector.		

Note: (1) RF Voltage (dBuV)=20 log Voltage(uV)

- (2) In the Above Table, the tighter limit applies at the band edges.
- (3) Distagnce refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

N

8.5. Radiated Emission Test Result

Pass

A. Fundamental Radiated Emissions Data

CH Low

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2402	76.19/89.41	VERT	94/114	17.81/24.59
2402	83.22/98.08	HORIZ	94/114	10.78/15.92

CH Middle

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
2441	75.78/89.31	VERT	94/114	18.22/24.69
2441	83.55/98.23	HORIZ	94/114	10.45/15.77

CH High

<u>8</u>				
Freq.	Emission(dBuV/m)	HORIZ/	Limits(dBuV/m)	Margin
(MHz)	AV/PK	VERT	AV/PK	(dB)
2480	75.80/88.74	VERT	94/114	18.20/25.26
2480	84.06/98.65	HORIZ	94/114	9.94/15.35

B.Harmonics Radiated Emissions Data

CH Low

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4804.0	37.57/49.86	VERT	54.0/74.0	16.43/24.14
4804.0	45.62/58.62	HORIZ	54.0/74.0	8.38/15.38

Emissions attenuated more than 20 dB below the permissible value are not reported.

CH Middle

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4882.0	36.89/48.88	VERT	54.0/74.0	17.11/25.12
4882.0	45.16/58.02	HORIZ	54.0/74.0	8.84/15.98

Emissions attenuated more than 20 dB below the permissible value are not reported.

CH High

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
4960.0	38.32/50.45	VERT	54.0/74.0	15.68/23.55
4960.0	47.63/59.94	HORIZ	54.0/74.0	6.37/14.06

Emissions attenuated more than 20 dB below the permissible value are not reported.

C. Spurious Radiated Emissions Data

Freq. (MHz)	Emission(dBuV/m) AV/PK	HORIZ/ VERT	Limits(dBuV/m) AV/PK	Margin (dB)
-	-	HORIZ	-	-
-	-	VERT	-	-

Emissions attenuated more than 20 dB below the permissible value are not reported.

9. BAND EDGE

9.1. Test Equipment

Please refer to Section 5 this report.

9.2. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The bandwidth setting below 1GHz and above 1GHz on the field strength meter is 120 kHz and 1MHz respectively.

9.3. Band Edge FCC 15.249(d) Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 50dB

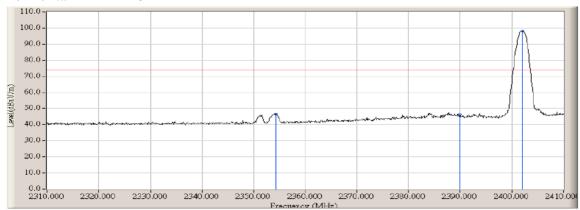
below that in the 100kHz bandwidth within the band that contains the desired power, based on either an RF conducted or a radited measurement, Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

BST FCC ID REPORT: BST12050221Y-1E-3-2

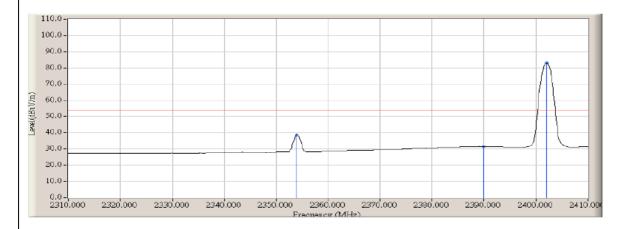
9.4. Band Edge Test Result

Pass

Horizontal TX 2402MHz

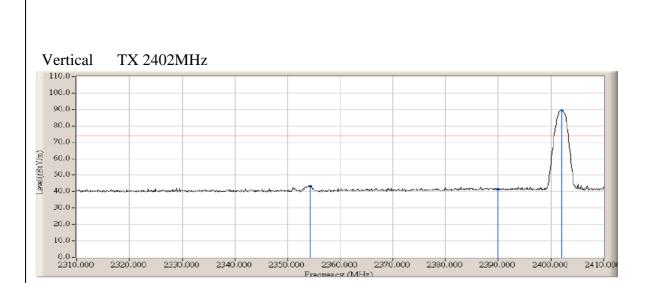


		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2354.300	-3.287	49.987	46.700	-27.270	73.970	PEAK
2		2390.000	-3.202	49.422	46.220	-27.750	73.970	PEAK
3	*	2402.100	-3.199	101.283	98.083	N/A	N/A	PEAK

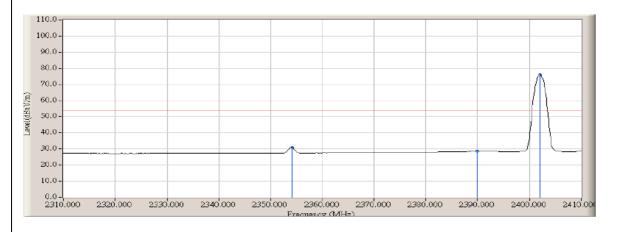


		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2353.900	-3.287	41.879	38.592	-15.378	53.970	AVERAGE
2		2390.000	-3.202	34.846	31.644	-22.326	53.970	AVERAGE
3	*	2402.100	-3.199	86.420	83.220	N/A	N/A	AVERAGE

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported. 2. Measurement Level = Reading Level + Correct Factor.



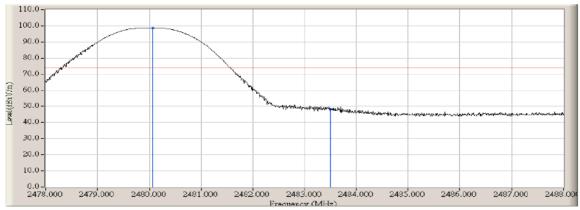
		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2354.300	-3.287	46.697	43.410	-30.560	73.970	PEAK
2		2390.000	-3.202	44.661	41.459	-32.511	73.970	PEAK
3	*	2402.100	-3.199	92.610	89.410	N/A	N/A	PEAK



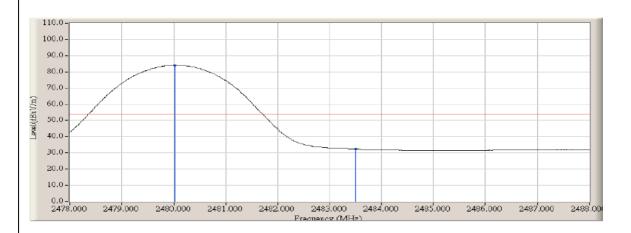
		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		2354.200	-3.287	34.390	31.103	-22.867	53.970	AVERAGE
2		2390.000	-3.202	31.747	28.545	-25.425	53.970	AVERAGE
3	*	2402.100	-3.199	79.386	76.186	N/A	N/A	AVERAGE

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported. 2. Measurement Level = Reading Level + Correct Factor.





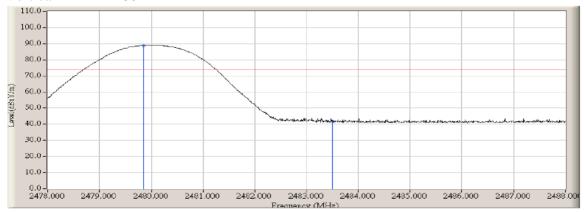
		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1	*	2480.070	-3.187	101.827	98.640	N/A	N/A	PEAK
2		2483.500	-3.177	51.589	48.412	-25.558	73.970	PEAK



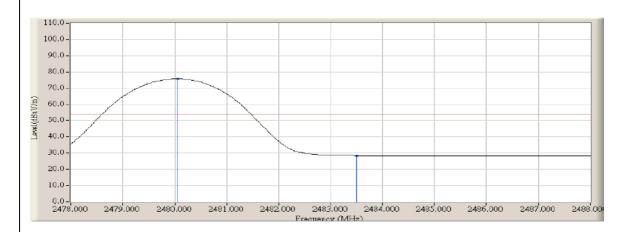
		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1	*	2480.020	-3.187	87.248	84.061	N/A	N/A	AVERAGE
2		2483.500	-3.177	35.553	32.376	-21.594	53.970	AVERAGE

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported. 2. Measurement Level = Reading Level + Correct Factor.

Vertical TX 2480MHz



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1	*	2479.850	-3.187	91.923	88.736	N/A	N/A	PEAK
2		2483.500	-3.177	45.019	41.842	-32.128	73.970	PEAK



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1	*	2480.050	-3.187	78.987	75.800	N/A	N/A	AVERAGE
2		2483.500	-3.177	31.616	28.439	-25.531	53.970	AVERAGE

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported. 2. Measurement Level = Reading Level + Correct Factor.