TEST REPORT FOR FCC
Class II PERMISSIVE CHANGE
On Behalf of
Amtran Technology Co., Ltd.
Bluetooth Embedded Module
Model No.: BCM92046MD_EMB
FCC ID: MDZSV422XVT-BT

Prepared for : Amtran Technology Co., Ltd.
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File Number	:	C1M1104291
Report Number	:	EM-F1000460
Date of Test	:	May 11 ~ 13, 2011
Date of Report	:	May 16, 2011

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TEST REPORT CERTIFICATION
(Class II Permissive Change)

Applicant	:	Amtran Technology Co., Ltd.
EUT Description	:	Bluetooth Embedded Module
FCC ID	:	MDZSV422XVT-BT
(A) Model No.	:	BCM92046MD_EMB
(B) Serial No.	:	N/A
(C) Power Supply	:	DC 3.3V
(D) Test Voltage	:	AC 120V, 60Hz (Via LCD TV or Notebook PC)

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, Oct. 2010
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 Corporation 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 Corporation 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 Corporation.

This report is based on reports of EM-F980571, EM-F980641, EM-F990210, EM-F990320 and EM-F990341 & EM-F990923 & EM-F991051.

Date of Test: May 11 ~ 13, 2011 Date of Report: May 16, 2011

Date of Test of Original: Aug. 03 ~ 05, 2009 Date of Original: Aug. 13, 2009

Producer: _____
(Tina Huang/Administrator)

Signatory: _____
(Ben Cheng/Manager)

1. DESCRIPTION OF VERSION

Edition No.	Date of Rev.	Summary	Report No.
Rev. 0	Aug. 13, 2009	Original Report.	EM-F980571
Rev. 1	Sep. 01, 2009	1. There is no hardware or electrical modification made to the applying modular transmitter itself. The changes filed under this application are adding LCD TV Model VIZIO VF552XVT collocated with Bluetooth Embedded Module, FCC ID: MDZSV422XVT-BT. 2. Supplementary test data are recorded in report of EM-F980641.	EM-F980641
Rev. 2	Mar. 15, 2010	1. The changes filed under this application are adding LCD TV Model VIZIO M550NV collocated with Bluetooth Embedded Module, FCC ID: MDZSV422XVT-BT. And the PCB's electronic circuit changes are described at appendix. 2. Supplementary test data are recorded in test report of EM-F990210.	EM-F990210
Rev. 3	Apr. 12, 2010	1. The changes filed under this application are adding LCD TV Model VIZIO XVT423SV / VIZIO XVT423SV-XX / XVT423SV collocated with Bluetooth Embedded Module, FCC ID: MDZSV422XVT-BT. And the PCB's electronic circuit changes are described at appendix. 2. Supplementary test data are recorded in test report of EM-F990320.	EM-F990320
Rev. 4	Apr. 14, 2010	1. The changes filed under this application are adding LCD TV Model VIZIO XVT323SV###, XVT323SV### collocated with Bluetooth Embedded Module, FCC ID: MDZSV422XVT-BT. And the PCB's electronic circuit changes are described at appendix. 2. Supplementary test data are recorded in test report of EM-F990342.	EM-F990342
Rev. 5	Sep. 16, 2010	1. The changes filed under this application are adding LCD TV Model XVT3D424SV / VIZIO XVT3D424SV / VIZIO XVT3D424SV-XX collocated with Bluetooth Embedded Module, FCC ID: MDZSV422XVT-BT. And the PCB's electronic circuit changes are described at appendix. 2. Supplementary test data are recorded in test report of EM-F990923.	EM-F990923

Edition No.	Date of Rev.	Summary	Report No.
Rev. 6	Oct. 28, 2010	1. The changes filed under this application are adding LCD TV Model XVT3D650SV / VIZIO XVT3D650SV / VIZIO XVT3D650SV-XX collocated with Bluetooth Embedded Module, FCC ID: MDZSV422XVT-BT. And the PCB's electronic circuit changes are described at appendix. 2. Supplementary test data are recorded in test report of EM-F991051.	EM-F991051
Rev. 7	May 16, 2011	1. The changes filed under this application are adding LCD TV Model XVT3D475SP / VIZIO XVT3D475SP / VIZIO XVT3D475SP-XX、XVT3D555SP / VIZIO XVT3D555SP / VIZIO XVT3D555SP-XX collocated with Bluetooth Embedded Module, FCC ID: MDZSV422XVT-BT. And the PCB's electronic circuit changes are described at appendix. 2. Supplementary test data are recorded in test report of EM-F1000460.	EM-F1000460

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D475SP and VIZIO XVT3D555SP)
Model Number	:	BCM92046MD_EMB
FCC ID	:	MDZSV422XVT-BT
Applicant	:	Amtran Technology Co., Ltd. 17F., No. 268, Liancheng Rd., Jhonghe District New Taipei City 23553, Taiwan, R.O.C.
Fundamental Range	:	2400MHz ~ 2483.5MHz
Channel Number	:	79
Radio Technology	:	FHSS Modulation
Antenna Gain	:	1.87dBi
Date of Receipt of Sample	:	Apr. 29, 2011
Date of Test	:	May 11 ~ 13, 2011

Information for Class II Permissive Change:

1. This EUT is additional version with original FCC ID MDZSV422XVT-BT.
2. The changes filed under this application are adding LCD TV Model XVT3D475SP / VIZIO XVT3D475SP / VIZIO XVT3D475SP-XX、XVT3D555SP / VIZIO XVT3D555SP / VIZIO XVT3D555SP-XX (The "X" is number suffix 0 ~9 or alphabet A ~Z or blank.) collocated with Bluetooth Embedded Module, FCC ID: MDZSV422XVT-BT. And the PCB's electronic circuit changes are described at appendix.
3. The differences among six models of LCD TV are in brand name、marketing purpose and panel inch, the models VIZIO XVT3D475SP (Panel is 47 inch) and VIZIO XVT3D555SP (Panel is 55 inch) are representative tested in this report of EM-F1000460.
4. This report is based on reports of EM-F980571 & EM-F980641 & EM-F990210 & EM-F990320 & EM-F990341 & EM-F990923 & EM-F991051.

2.2. Tested Supporting System Details

2.2.1. LCD TV (HOST)

Model Number	:	VIZIO XVT3D475SP
Serial Number	:	N/A
FCC ID	:	FCC By DoC
Manufacturer	:	VIZIO
Power Cord	: :	Non-Shielded, Detachable, 1.8m

2.2.2. LCD TV (HOST)

Model Number	:	VIZIO XVT3D555SP
Serial Number	:	N/A
FCC ID	:	FCC By DoC
Manufacturer	:	VIZIO
Power Cord	: :	Non-Shielded, Detachable, 1.8m

2.2.3. NOTEBOOK PC

Model Number	:	PP2130
Serial Number	:	5Y32KSQZ40ME
BSMI ID	:	3912A556
FCC ID	:	FCC By DoC
Manufacturer	:	LG (Brand Compaq)
Power Adapter	:	COMPAQ, M/N PA-1650-02C DC Power Cord: Shielded, Undetachable, 1.8m Bonded a ferrite core AC Power Cord: Non-Shielded, Undetachable, 1.8m

2.3. Description of Test Facility

Name of Firm	:	**AUDIX Technology Corporation** **EMC Department** No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei County, Taiwan, R.O.C.
Test Site	:	**Semi-Anechoic Chamber** No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien, Taiwan May 14, 2009 Renewal on Federal Communication Commission Registration Number: 90993
NVLAP Lab. Code	:	200077-0
TAF Accreditation No	:	1724

2.4. Measurement Uncertainty

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

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

Test Item	Uncertainty
Maximum peak Output power	± 0.52dBm

3. CONDUCTED EMISSION MEASUREMET

【The EUT only employs DC power for operation, no conductive emission limits are required according to FCC Part 15 Section §15.207】

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

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

4.1.1. For Frequency 30MHz~1000MHz (at Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10’	Aug. 03, 11’
2.	Test Receiver	R & S	ESCS30	100338	Jul. 08, 10’	Jul. 07, 11’
3.	Amplifier	HP	8447D	2944A06305	Feb. 10, 11’	Feb. 09, 12’
4.	Log Periodic Antenna	Schwarzbeck	UHALP 9108-A	0810	Mar. 08, 11’	Mar. 07, 12’
5.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 08, 11’	Mar. 07, 12’

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

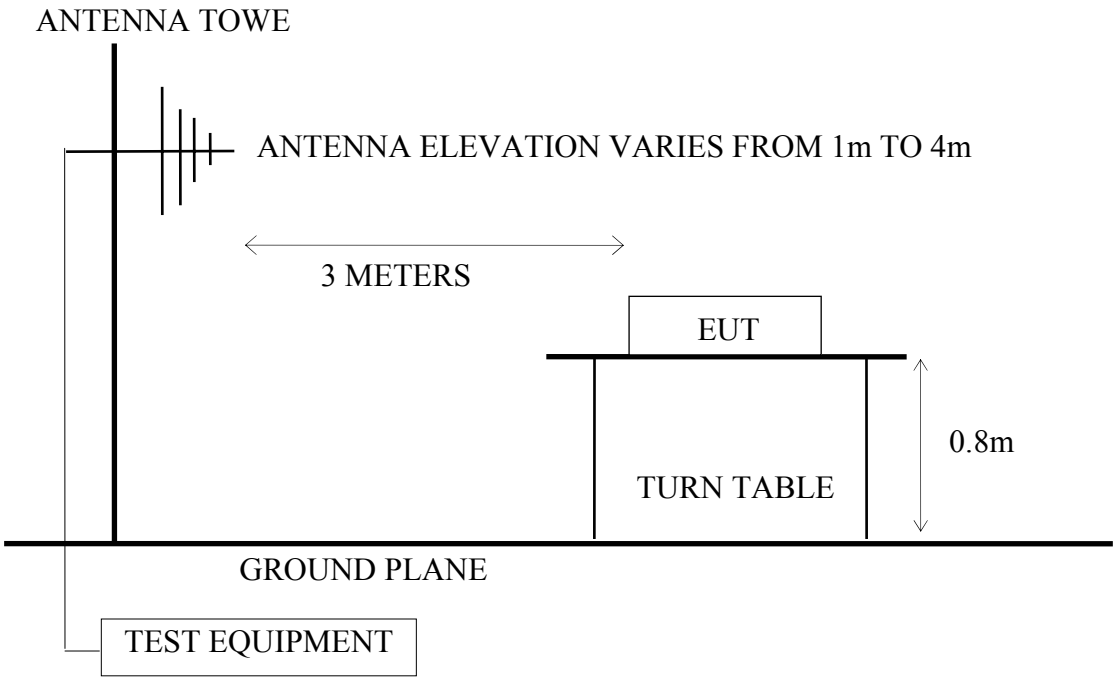
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 04, 10’	Aug. 03, 11’
2.	Amplifier	HP	8449B	3008A00529	Dec. 10, 10’	Dec. 09, 11’
3.	Horn Antenna	EMCO	3115	9112-3775	May 09, 11’	May 08, 12’
4.	Horn Antenna	EMCO	3116	2653	Oct. 04, 10’	Oct. 03, 11’

4.2. Test Setup

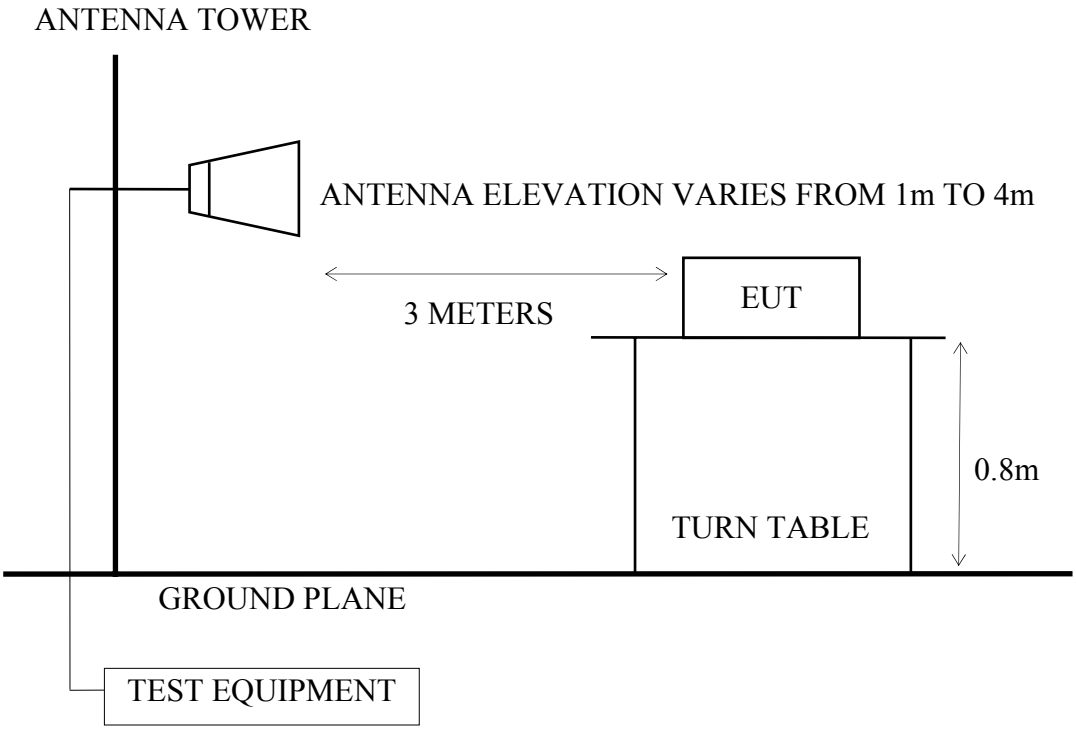
4.2.1. Block Diagram of connection between EUT and simulators

EUT: BLUETOOTH EMBEDDED MODULE

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



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



4.3. 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).

4.4. Operating Condition of EUT

4.4.1. Set up the EUT (Bluetooth Embedded Module) and simulator as shown on 3.2.1.

4.4.2. To turn on the power of all equipment.

4.4.3. The EUT was set to continuously transmit signals at 2402MHz, 2441MHz and 2480MHz during testing.

4.4.4. The EUT was set to continuously receive signals at 2441MHz during testing.

4.5. 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 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 antennas 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 3kHz for average detection (AV) at frequency above 1GHz.

The frequency range from 30MHz to 25GHz (Up to 10th harmonics from fundamental frequency) was checked. 30MHz to 1000MHz was measured with Qusai-Peak detector. Above 1GHz was measured with peak and average detector. For average reading in frequency from 1G to 25GHz, we checked it in 1 meter distance and with a shorter cable 2 meter instead of original's. There is no signal exist.

4.6. Radiated Emission Measurement Results

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

EUT：Bluetooth Embedded Module M/N：BCM92046MD_EMB

Test Date : May 13, 2011 Temperature : 25 ℃ Humidity : 56 %

For Frequency Range 30MHz~1000MHz:

[Note: Three types of modulation (GFSK and 8-DPSK and π/4-DQPSK) were evaluated but only the worst case (GFSK) was reported in section 4.6.1 & 4.6.2]

The EUT (Bluetooth Embedded Module) with following test modes was performed during this section testing and all the test results are listed in section 4.6.1.

Mode	Host (LCD TV)	Test Mode and Frequency	
1.	VIZIO XVT3D475SP	Transmitting	2402MHz (CH0)
2.			2441MHz (CH39)
3.			2480MHz (CH78)
4.		Receiving	2441MHz (CH39)
5.	VIZIO XVT3D555SP	Transmitting	2402MHz (CH0)
6.			2441MHz (CH39)
7.			2480MHz (CH78)
8.		Receiving	2441MHz (CH39)

Remark 1：Type of modulation: GFSK.
Remark 2：All above final readings were measured with Quasi-Peak detector.

For Frequency above 1GHz:

The EUT (Bluetooth Embedded Module) with following test modes was performed during this section testing and all the test results are listed in section 4.6.2.

Mode	Host (LCD TV)	Test Mode and Frequency		Test Frequency Range
1.	VIZIO XVT3D475SP	Transmitting	2402MHz (CH0)	1000-2680MHz
2.				2680-5500MHz
3.				5500-18000MHz
4.				18000-25000MHz
5.		Transmitting	2441MHz (CH39)	1000-2680MHz
6.				2680-5500MHz
7.				5500-18000MHz
8.				18000-25000MHz
9.		Transmitting	2480MHz (CH78)	1000-2680MHz
10.				2680-5500MHz
11.				5500-18000MHz
12.				18000-25000MHz
13.		Receiving	2441MHz (CH39)	1000-2680MHz
14.				2680-5500MHz
15.				5500-18000MHz
16.				18000-25000MHz
17.	VIZIO XVT3D555SP	Transmitting	2402MHz (CH0)	1000-2680MHz
18.				2680-5500MHz
19.				5500-18000MHz
20.				18000-25000MHz
21.		Transmitting	2441MHz (CH39)	1000-2680MHz
22.				2680-5500MHz
23.				5500-18000MHz
24.				18000-25000MHz
25.		Transmitting	2480MHz (CH78)	1000-2680MHz
26.				2680-5500MHz
27.				5500-18000MHz
28.				18000-25000MHz
29.		Receiving	2441MHz (CH39)	1000-2680MHz
30.				2680-5500MHz
31.				5500-18000MHz
32.				18000-25000MHz

Remark 1：The emissions level were too low against the official limit and not report.
Remark 2：Type of modulation: GFSK.

For Restricted Bands:

The EUT (Bluetooth Embedded Module) with following test modes was tested in restricted bands and all the test results are listed in section 4.6.3. (The restricted bands defined in part 15.205(a))

Mode	Host (LCD TV)	Type of Modulation	Test Mode and Frequency		Reference Test Data No.	
					Horizontal	Vertical
1.	VIZIO XVT3D475SP	GFSK	Transmitting	2402MHz (CH0)	# 2, 3	# 1, 4
2.				2480MHz (CH78)	# 7, 6	# 8, 5
3.		8-DPSK	Transmitting	2402MHz (CH0)	# 10, 11	# 9, 12
4.				2480MHz (CH78)	# 15, 14	# 16, 13
5.	VIZIO XVT3D555SP	GFSK	Transmitting	2402MHz (CH0)	# 2, 3	# 1, 4
6.				2480MHz (CH78)	# 8, 5	# 7, 6
7.		8-DPSK	Transmitting	2402MHz (CH0)	# 10, 11	# 9, 12
8.				2480MHz (CH78)	# 15, 14	# 16, 13

[Note: Two types of modulation (GFSK and 8-DPSK) were reported in section 4.6.3]

4.6.1. 30MHz~ 1000MHz Frequency Range Measurement Result

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D475SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2402MHz (CH0) Type of Modulation: GFSK		

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
132.820	19.87	2.40	8.87	31.13	43.50	12.37
223.030	21.94	3.30	9.78	35.02	46.00	10.98
373.380	17.13	4.60	11.97	33.71	46.00	12.29
445.160	17.60	5.40	10.61	33.61	46.00	12.39
519.850	19.99	6.90	6.56	33.45	46.00	12.55
595.510	20.94	6.27	10.64	37.85	46.00	8.15
714.820	22.95	6.60	5.76	35.31	46.00	10.69
750.710	23.35	6.70	6.48	36.53	46.00	9.47
966.050	26.89	7.70	3.73	38.32	54.00	15.68

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

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
149.310	20.61	2.60	11.10	34.31	43.50	9.19
224.970	21.95	3.30	9.03	34.28	46.00	11.72
250.190	23.83	3.50	8.30	35.63	46.00	10.37
443.220	17.62	5.33	14.61	37.56	46.00	8.44
515.000	19.97	6.80	16.69	43.46	46.00	2.54
554.770	19.46	6.80	12.01	38.27	46.00	7.73
593.570	20.95	6.20	14.37	41.52	46.00	4.48
665.350	22.65	6.40	9.46	38.51	46.00	7.49
957.320	26.33	7.60	8.60	42.53	46.00	3.47
967.990	26.90	7.69	8.22	42.81	54.00	11.19

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

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D475SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2441MHz (CH39) Type of Modulation: GFSK		

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
135.730	19.95	2.40	9.81	32.15	43.50	11.35
224.970	21.95	3.30	7.54	32.79	46.00	13.21
369.500	16.93	4.60	13.89	35.42	46.00	10.58
408.300	17.28	4.90	10.83	33.01	46.00	12.99
445.160	17.60	5.40	11.17	34.17	46.00	11.83
588.720	21.02	6.30	11.90	39.21	46.00	6.79
616.850	21.31	6.30	8.33	35.94	46.00	10.06
750.710	23.35	6.70	6.23	36.28	46.00	9.72
959.260	26.38	7.60	3.94	37.93	46.00	8.07

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

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
149.310	20.61	2.60	9.67	32.89	43.50	10.61
223.030	21.94	3.30	8.52	33.76	46.00	12.24
411.210	17.15	4.90	11.42	33.48	46.00	12.52
448.070	17.63	5.40	14.12	37.15	46.00	8.85
515.000	19.97	6.80	12.60	39.37	46.00	6.63
556.710	19.67	6.76	10.93	37.37	46.00	8.63
589.690	21.01	6.30	13.77	41.08	46.00	4.92
891.360	25.06	7.30	4.84	37.20	46.00	8.80
964.110	26.80	7.60	7.18	41.58	54.00	12.42

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

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D475SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2480MHz (CH78) Type of Modulation: GFSK		

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
135.730	19.95	2.40	8.81	31.15	43.50	12.35
224.970	21.95	3.30	8.54	33.79	46.00	12.21
299.660	26.77	3.90	3.22	33.89	46.00	12.12
334.580	15.09	4.20	11.70	30.99	46.00	15.01
369.500	16.93	4.60	12.91	34.44	46.00	11.56
445.160	17.60	5.40	11.08	34.08	46.00	11.92
588.720	21.02	6.30	10.64	37.96	46.00	8.04
750.710	23.35	6.70	6.01	36.06	46.00	9.95
959.260	26.38	7.60	3.87	37.85	46.00	8.15

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

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
123.120	19.27	2.30	10.83	32.40	43.50	11.10
223.030	21.94	3.30	7.52	32.76	46.00	13.24
448.070	17.63	5.40	14.67	37.70	46.00	8.30
515.970	19.98	6.80	9.41	36.19	46.00	9.81
556.710	19.67	6.76	10.16	36.59	46.00	9.41
590.660	21.00	6.24	11.42	38.66	46.00	7.34
604.240	21.42	6.30	9.70	37.42	46.00	8.58
749.740	23.25	6.70	6.06	36.01	46.00	9.99
891.360	25.06	7.30	4.46	36.82	46.00	9.18
964.110	26.80	7.60	6.45	40.85	54.00	13.15

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

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D475SP)	Humidity：	56%
Test Mode：	Receiving Mode, Frequency: 2441MHz (CH39) Type of Modulation: GFSK		

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
132.820	19.87	2.40	11.11	33.37	43.50	10.13
223.030	21.94	3.30	7.73	32.97	46.00	13.03
369.500	16.93	4.60	12.69	34.22	46.00	11.78
448.070	17.63	5.40	10.81	33.84	46.00	12.16
511.120	19.69	6.80	11.79	38.28	46.00	7.72
588.720	21.02	6.30	11.26	38.57	46.00	7.43
749.740	23.25	6.70	6.31	36.26	46.00	9.74
964.110	26.80	7.60	3.71	38.11	54.00	15.89

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

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
149.310	20.61	2.60	10.68	33.90	43.50	9.60
223.030	21.94	3.30	10.67	35.91	46.00	10.09
446.130	17.59	5.40	14.95	37.94	46.00	8.06
511.120	19.69	6.80	12.45	38.94	46.00	7.06
554.770	19.46	6.80	13.94	40.20	46.00	5.80
599.390	21.30	6.30	14.19	41.79	46.00	4.22
712.880	23.30	6.53	9.16	38.99	46.00	7.01
889.420	25.09	7.30	5.10	37.49	46.00	8.51
966.050	26.89	7.70	6.53	41.12	54.00	12.88

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

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D555SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2402MHz (CH0) Type of Modulation: GFSK		

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
224.970	21.95	3.30	7.26	32.51	46.00	13.49
299.660	26.77	3.90	3.76	34.43	46.00	11.57
556.710	19.67	6.76	12.84	39.28	46.00	6.72
596.480	21.02	6.27	6.57	33.86	46.00	12.14
712.880	23.30	6.53	14.05	43.88	46.00	2.12
750.710	23.35	6.70	12.85	42.90	46.00	3.10
880.690	25.34	7.30	8.08	40.72	46.00	5.28
906.880	24.90	7.40	9.08	41.38	46.00	4.62

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

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
75.590	12.88	1.80	19.72	34.40	40.00	5.60
150.280	20.63	2.60	11.81	35.04	43.50	8.46
450.010	17.65	5.40	11.25	34.29	46.00	11.71
555.740	19.53	6.80	16.19	42.52	46.00	3.48
596.480	21.02	6.27	13.42	40.71	46.00	5.29
712.880	23.30	6.53	14.77	44.60	46.00	1.40
742.950	22.56	6.70	12.67	41.93	46.00	4.07
866.140	25.97	7.20	10.88	44.05	46.00	1.95
959.260	26.38	7.60	10.43	44.42	46.00	1.58

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

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D555SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2441MHz (CH39) Type of Modulation: GFSK		

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
223.030	21.94	3.30	7.57	32.81	46.00	13.19
298.690	26.72	3.90	5.21	35.83	46.00	10.17
560.590	20.03	6.70	13.77	40.50	46.00	5.50
596.480	21.02	6.27	7.57	34.86	46.00	11.14
712.880	23.30	6.53	12.45	42.28	46.00	3.72
750.710	23.35	6.70	12.49	42.54	46.00	3.46
871.960	25.52	7.20	8.80	41.52	46.00	4.48
935.980	25.39	7.50	8.35	41.24	46.00	4.76

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

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
74.620	12.72	1.80	17.13	31.64	40.00	8.36
149.310	20.61	2.60	12.06	35.28	43.50	8.22
296.750	26.59	4.00	4.16	34.75	46.00	11.25
446.130	17.59	5.40	11.27	34.26	46.00	11.74
560.590	20.03	6.70	16.73	43.46	46.00	2.54
596.480	21.02	6.27	14.23	41.52	46.00	4.48
712.880	23.30	6.53	14.05	43.88	46.00	2.12
750.710	23.35	6.70	13.93	43.98	46.00	2.02
873.900	25.37	7.30	10.81	43.49	46.00	2.51
956.350	26.33	7.60	10.44	44.37	46.00	1.63

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

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D555SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2480MHz (CH78) Type of Modulation: GFSK		

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
223.030	21.94	3.30	7.83	33.07	46.00	12.93
299.660	26.77	3.90	5.76	36.43	46.00	9.57
560.590	20.03	6.70	15.58	42.31	46.00	3.69
596.480	21.02	6.27	7.24	34.53	46.00	11.47
712.880	23.30	6.53	13.52	43.35	46.00	2.65
871.960	25.52	7.20	9.04	41.76	46.00	4.24
928.220	24.80	7.50	9.85	42.15	46.00	3.85

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

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
75.590	12.88	1.80	19.60	34.28	40.00	5.72
150.280	20.63	2.60	11.76	34.99	43.50	8.51
299.660	26.77	3.90	5.25	35.92	46.00	10.08
448.070	17.63	5.40	12.94	35.97	46.00	10.03
556.710	19.67	6.76	17.79	44.23	46.00	1.77
596.480	21.02	6.27	15.21	42.50	46.00	3.50
712.880	23.30	6.53	14.86	44.69	46.00	1.31
750.710	23.35	6.70	13.47	43.52	46.00	2.48
859.350	26.01	7.20	9.47	42.67	46.00	3.33
943.740	25.59	7.50	9.74	42.83	46.00	3.17

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

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D555SP)	Humidity：	56%
Test Mode：	Receiving Mode, Frequency: 2441MHz (CH39) Type of Modulation: GFSK		

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
224.000	21.96	3.30	6.32	31.58	46.00	14.42
296.750	26.59	4.00	3.90	34.49	46.00	11.51
558.650	19.89	6.70	12.10	38.68	46.00	7.32
596.480	21.02	6.27	6.97	34.26	46.00	11.74
712.880	23.30	6.53	12.69	42.52	46.00	3.48
739.070	22.32	6.60	13.50	42.43	46.00	3.57
889.420	25.09	7.30	10.05	42.44	46.00	3.56
929.190	24.92	7.50	9.51	41.93	46.00	4.07

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

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
74.620	12.72	1.80	19.82	34.33	40.00	5.67
448.070	17.63	5.40	17.97	41.00	46.00	5.00
554.770	19.46	6.80	17.58	43.84	46.00	2.16
596.480	21.02	6.27	16.11	43.40	46.00	2.60
713.850	23.07	6.60	14.29	43.95	46.00	2.05
750.710	23.35	6.70	12.34	42.39	46.00	3.61
871.960	25.52	7.20	12.24	44.96	46.00	1.04
948.590	25.88	7.50	10.38	43.76	46.00	2.24

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

4.6.2. Above 1GHz Frequency Range Measurement Results

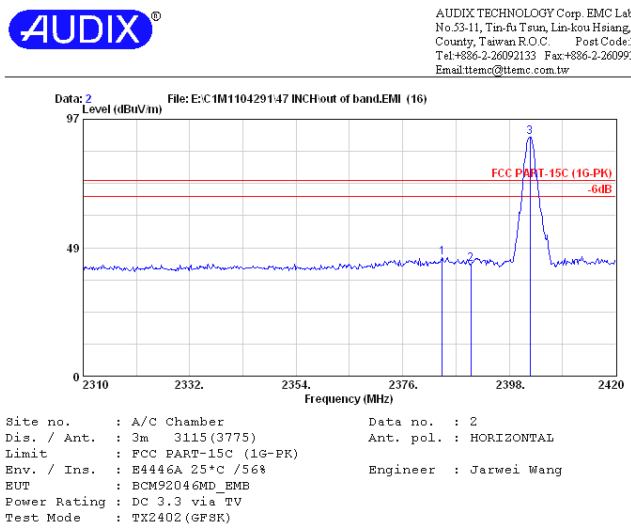
The emissions level were too low against the official limit and not report.

4.6.3. Restricted Bands Measurement Results

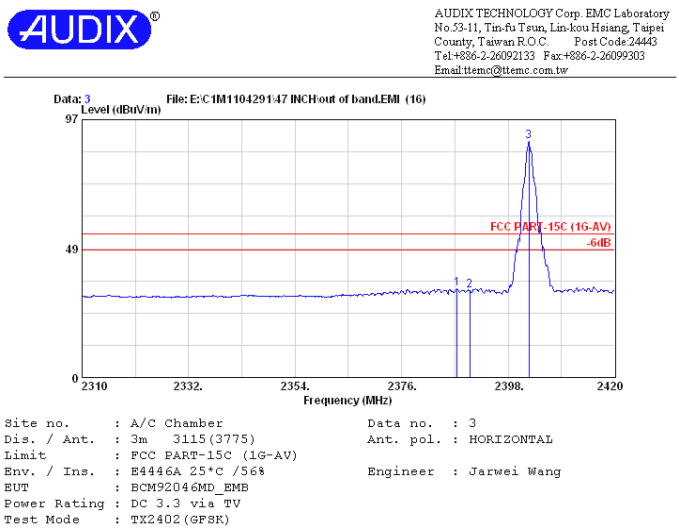
Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D475SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2402MHz (CH0) Type of Modulation: GFSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
Fundamental	2402.290	28.10	6.36	55.91	90.37		
Peak *	2384.140	28.08	6.33	10.48	44.89	74.00	29.11
Fundamental	2402.290	28.10	6.36	54.34	88.80		
Average *	2387.440	28.10	6.33	-1.18	33.25	54.00	20.75

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2420MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25*C /56% Engineer : Jarwei Wang
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2402(GFSK)



Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25*C /56% Engineer : Jarwei Wang
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2402(GFSK)

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D475SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2402MHz (CH0) Type of Modulation: GFSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
Fundamental	2401.740	28.10	6.35	59.18	93.63		
Peak *	2383.590	28.08	6.33	8.87	43.28	74.00	30.72
Fundamental	2402.290	28.10	6.36	58.64	93.10		
Average *	2386.120	28.10	6.33	-1.28	33.15	54.00	20.85

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2420MHz).
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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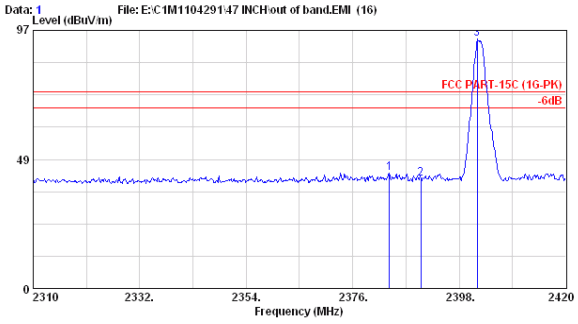

Site no. : A/C Chamber Data no. : 1
Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25*C /56% Engineer : Jarwei Wang
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2402(GFSK)

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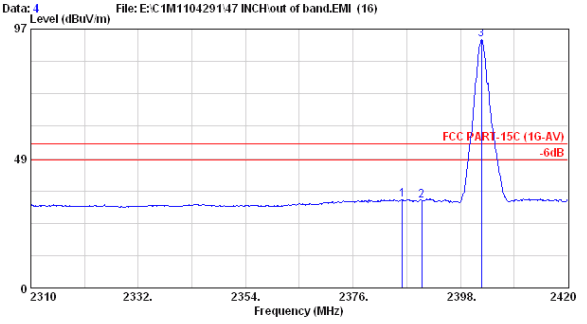

Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25*C /56% Engineer : Jarwei Wang
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2402(GFSK)

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D475SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2480MHz (CH78) Type of Modulation: GFSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
Fundamental	2480.100	28.18	6.44	56.35	90.97		
Peak *	2483.600	28.18	6.45	10.19	44.82	74.00	29.18
Fundamental	2479.950	28.18	6.44	53.67	88.29		
Average *	2483.600	28.18	6.45	7.71	42.34	54.00	11.66

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2470-2520MHz).
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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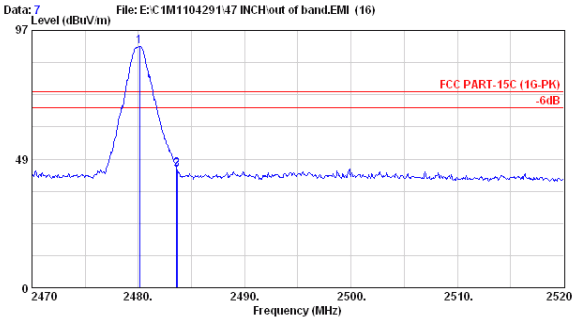


```
Site no.      : A/C Chamber                Data no.  : 7
Dis. / Ant.   : 3m   3115(3775)            Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : E4446A 25*C /56%           Engineer  : Jarwei Wang
EUT           : BCM92046MD_EMB
Power Rating  : DC 3.3 via TV
Test Mode     : TX2480(GFSK)
```

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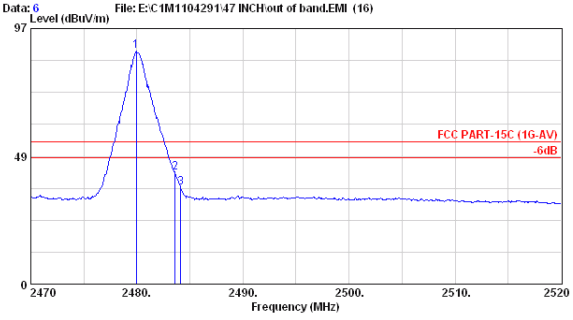


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Site no.      : A/C Chamber                Data no.  : 6
Dis. / Ant.   : 3m   3115(3775)            Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 25*C /56%           Engineer  : Jarwei Wang
EUT           : BCM92046MD_EMB
Power Rating  : DC 3.3 via TV
Test Mode     : TX2480(GFSK)
```

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D475SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2480MHz (CH78) Type of Modulation: GFSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
Fundamental	2480.100	28.18	6.44	59.74	94.36		
Peak *	2483.600	28.18	6.45	11.04	45.67	74.00	28.33
Fundamental	2479.700	28.18	6.44	57.67	92.29		
Average *	2483.600	28.18	6.45	8.28	42.91	54.00	11.09

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2470-2520MHz).
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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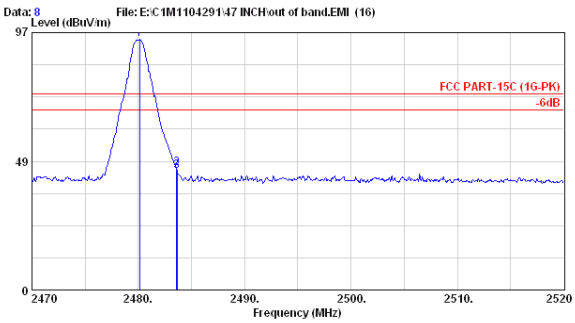


```
Site no.      : A/C Chamber                Data no.  : 8
Dis. / Ant.   : 3m   3115(3775)            Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : E4446A 25*C /56%           Engineer  : Jarwei Wang
EUT           : BCM92046MD_EMB
Power Rating  : DC 3.3 via TV
Test Mode     : TX2480(GFSK)
```

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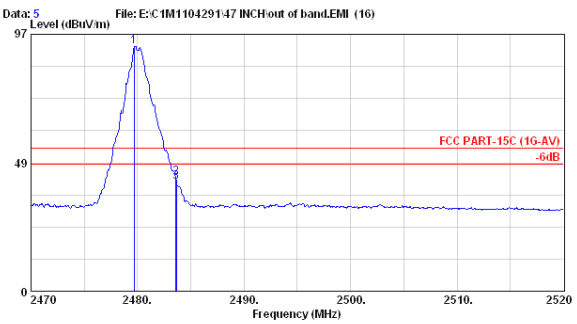


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Site no.      : A/C Chamber                Data no.  : 5
Dis. / Ant.   : 3m   3115(3775)            Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 25*C /56%           Engineer  : Jarwei Wang
EUT           : BCM92046MD_EMB
Power Rating  : DC 3.3 via TV
Test Mode     : TX2480(GFSK)
```

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D475SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2402MHz (CH0) Type of Modulation: 8-DPSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
Fundamental	2402.070	28.10	6.36	53.46	87.92		
Peak *	2390.080	28.10	6.34	6.47	40.91	74.00	33.09
Fundamental	2402.290	28.10	6.36	50.39	84.85		
Average *	2383.370	28.08	6.33	-2.48	31.93	54.00	22.07

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2420MHz).
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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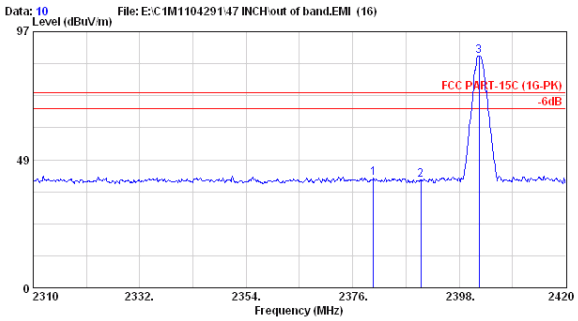


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Site no.      : A/C Chamber                Data no.   : 10
Dis. / Ant.   : 3m   3115(3775)            Ant. pol.  : HORIZONTAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : E4446A 25*C /56%           Engineer   : Jarwei Wang
EUT           : BCM92046MD_EMB
Power Rating  : DC 3.3 via TV
Test Mode     : TX2402(8DPSK)
```

AUDIX TECHNOLOGY Corp. EMC Laboratory
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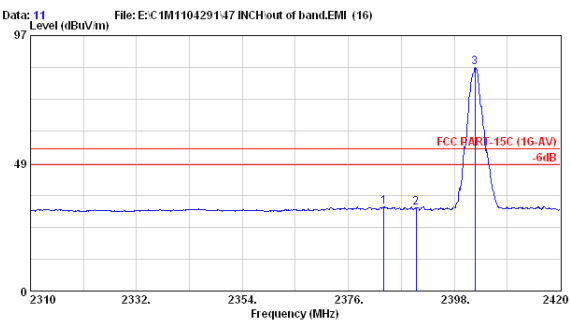


```
Site no.      : A/C Chamber                Data no.   : 11
Dis. / Ant.   : 3m   3115(3775)            Ant. pol.  : HORIZONTAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 25*C /56%           Engineer   : Jarwei Wang
EUT           : BCM92046MD_EMB
Power Rating  : DC 3.3 via TV
Test Mode     : TX2402(8DPSK)
```

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D475SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2402MHz (CH0) Type of Modulation: 8-DPSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
Fundamental	2401.740	28.10	6.35	55.25	89.70		
Peak *	2370.170	28.08	6.31	7.99	42.38	74.00	31.62
Fundamental	2402.070	28.10	6.36	51.90	86.36		
Average *	2384.140	28.08	6.33	-3.23	31.18	54.00	22.82

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2420MHz).
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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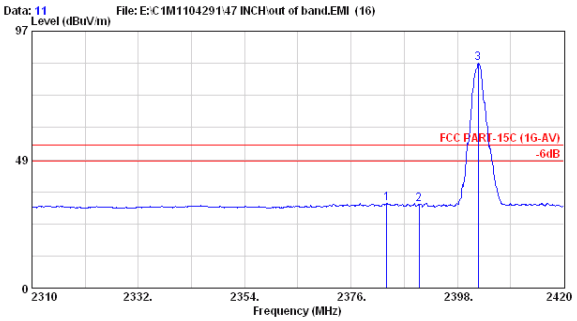

Site no. : A/C Chamber Data no. : 11
Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C /56% Engineer : Jarwei Wang
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2402(8DPSK)

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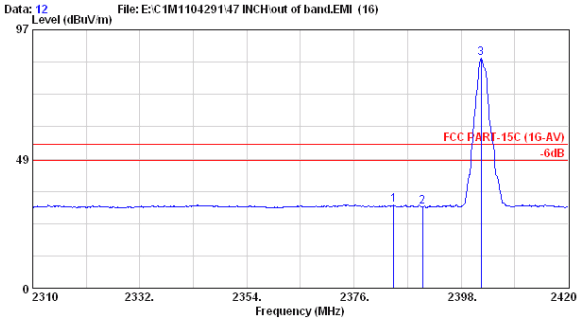

Site no. : A/C Chamber Data no. : 12
Dis. / Ant. : 3m 3115(3775) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C /56% Engineer : Jarwei Wang
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2402(8DPSK)

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D475SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2480MHz (CH78) Type of Modulation: 8-DPSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
Fundamental	2480.100	28.18	6.44	51.33	85.95		
Peak *	2483.600	28.18	6.45	1.88	36.51	74.00	37.49
Fundamental	2479.950	28.18	6.44	47.49	82.11		
Average *	2483.600	28.18	6.45	2.67	37.30	54.00	16.70

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2470-2520MHz).
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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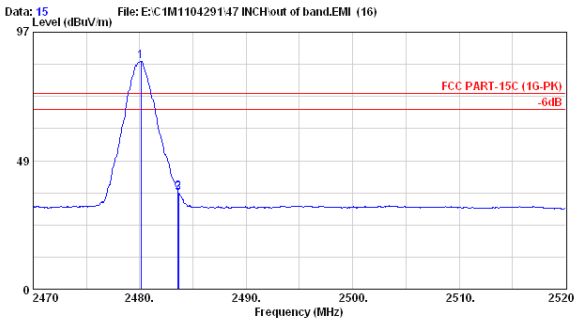

Site no. : A/C Chamber Data no. : 15
Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25*C /56% Engineer : Jarwei Wang
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2480(8DPSK)

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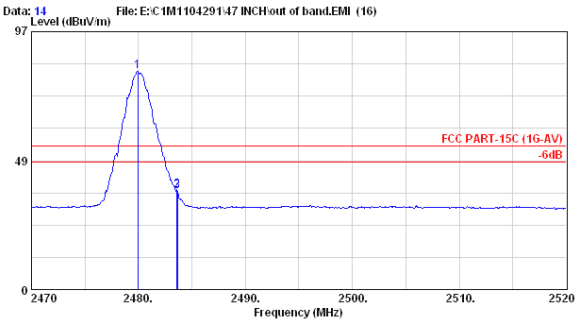

Site no. : A/C Chamber Data no. : 14
Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25*C /56% Engineer : Jarwei Wang
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2480(8DPSK)

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D475SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2480MHz (CH78) Type of Modulation: 8-DPSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
Fundamental	2480.100	28.18	6.44	51.74	86.36		
Peak *	2483.600	28.18	6.45	-0.11	34.52	74.00	39.48
Fundamental	2479.850	28.18	6.44	49.57	84.19		
Average *	2483.600	28.18	6.45	2.44	37.07	54.00	16.93

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2470-2520MHz).
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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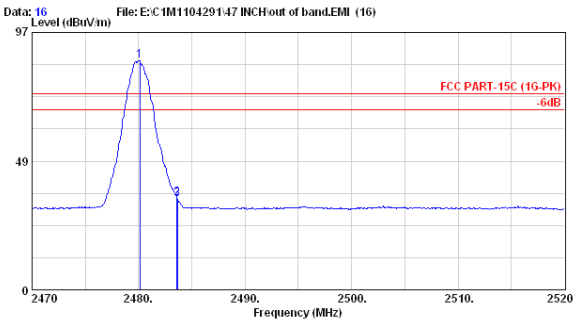


```
Site no.      : A/C Chamber              Data no.  : 16
Dis. / Ant.   : 3m   3115(3775)          Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : E4446A 25*C /56%         Engineer  : Jarwei Wang
EUT           : BCM92046MD_EMB
Power Rating  : DC 3.3 via TV
Test Mode     : TX2480(8DPSK)
```

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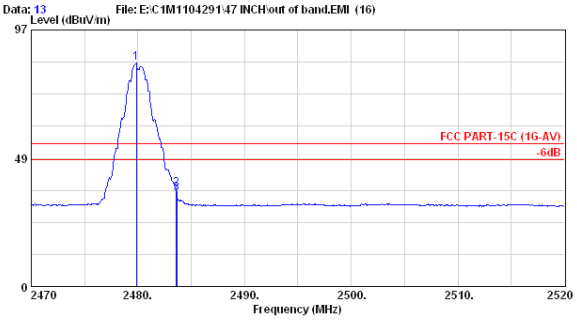


```
Site no.      : A/C Chamber              Data no.  : 13
Dis. / Ant.   : 3m   3115(3775)          Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 25*C /56%         Engineer  : Jarwei Wang
EUT           : BCM92046MD_EMB
Power Rating  : DC 3.3 via TV
Test Mode     : TX2480(8DPSK)
```

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D555SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2402MHz (CH0) Type of Modulation: GFSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
Fundamental	2402.070	28.10	6.36	54.91	89.37		
Peak *	2374.020	28.08	6.32	9.92	44.32	74.00	29.68
Fundamental	2402.620	28.11	6.36	54.78	89.25		
Average *	2383.920	28.08	6.33	0.80	35.21	54.00	18.79

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2420MHz).
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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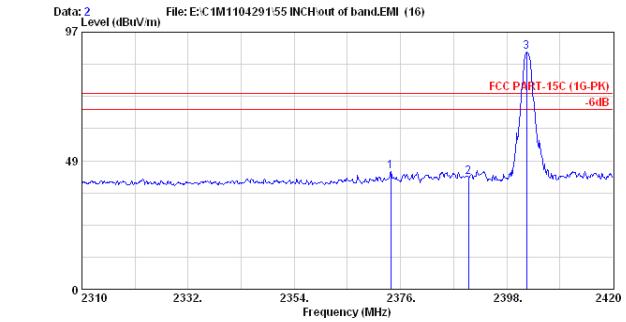


```
Site no.      : A/C Chamber              Data no.   : 2
Dis. / Ant.   : 3m   3115(3775)          Ant. pol.  : HORIZONTAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : E4446A 25*C /56%         Engineer   : Jarwei Wang
EUT           : BCM92046MD_EMB
Power Rating  : DC 3.3 via TV
Test Mode     : TX2402(GFSK)
```

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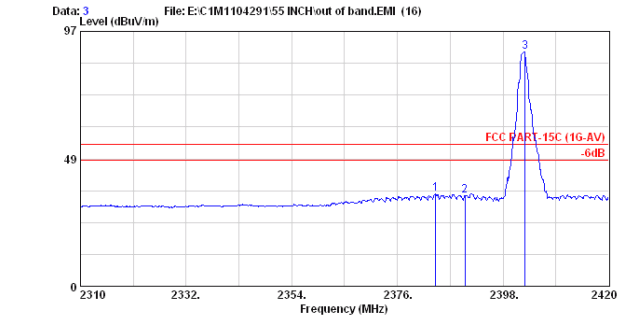
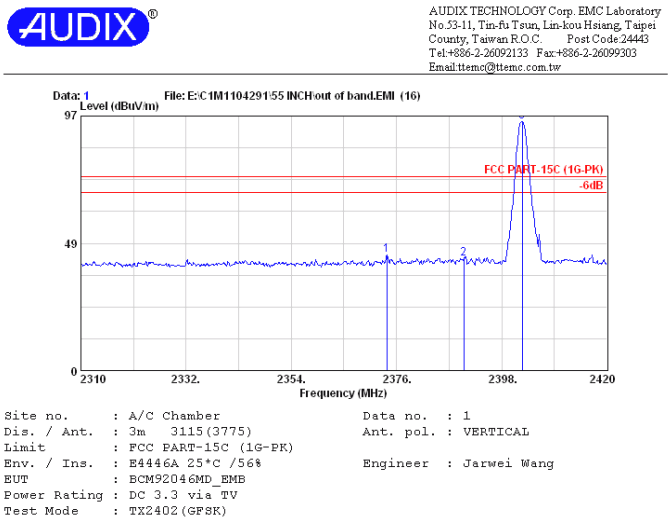


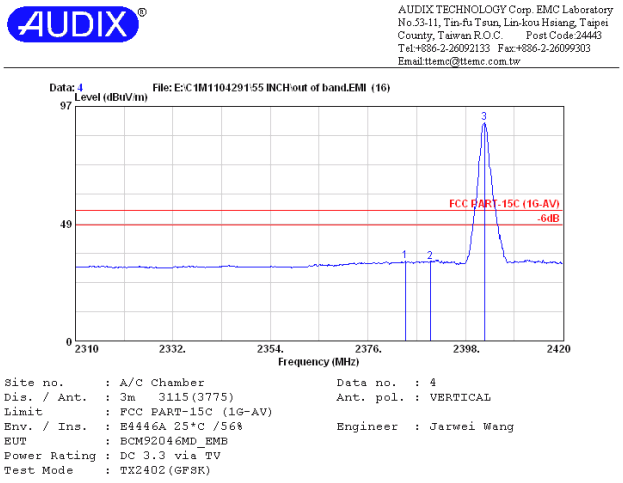

```
Site no.      : A/C Chamber              Data no.   : 3
Dis. / Ant.   : 3m   3115(3775)          Ant. pol.  : HORIZONTAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 25*C /56%         Engineer   : Jarwei Wang
EUT           : BCM92046MD_EMB
Power Rating  : DC 3.3 via TV
Test Mode     : TX2402(GFSK)
```

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D555SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2402MHz (CH0) Type of Modulation: GFSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
Fundamental	2402.290	28.10	6.36	60.27	94.73		
Peak *	2374.020	28.08	6.32	9.75	44.15	74.00	29.85
Fundamental	2402.290	28.10	6.36	55.79	90.25		
Average *	2384.470	28.08	6.33	-1.45	32.96	54.00	21.04

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2420MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

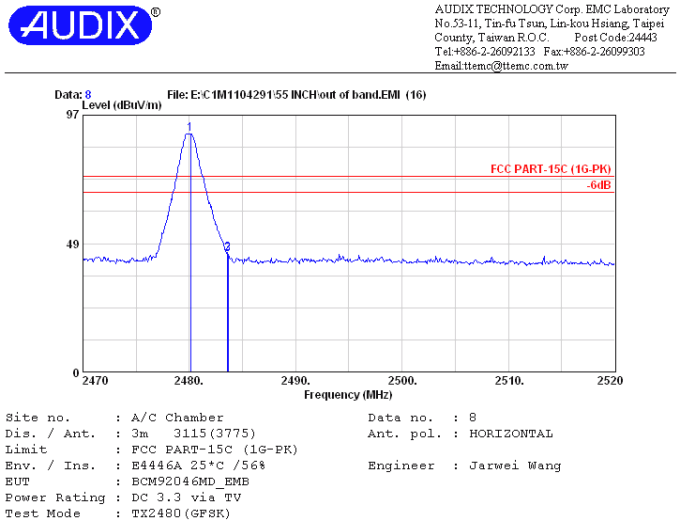


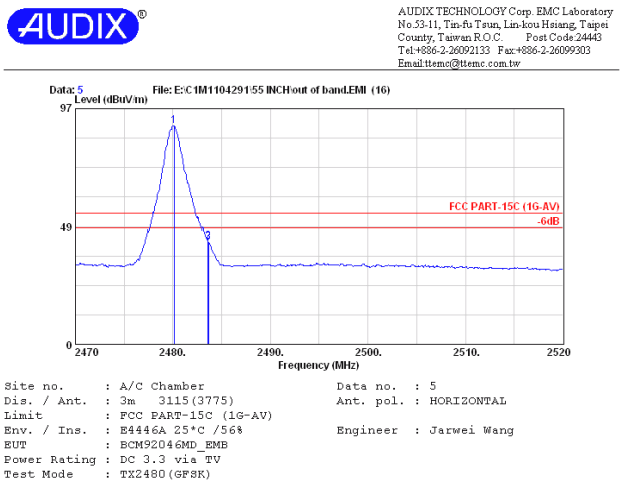


Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D555SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2480MHz (CH78) Type of Modulation: GFSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
Fundamental	2480.100	28.18	6.44	55.32	89.94		
Peak *	2483.600	28.18	6.45	10.10	44.73	74.00	29.27
Fundamental	2480.100	28.18	6.44	55.35	89.97		
Average *	2483.600	28.18	6.45	7.69	42.32	54.00	11.68

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2470-2520MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.





Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D555SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2480MHz (CH78) Type of Modulation: GFSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
Fundamental	2479.700	28.18	6.44	59.86	94.48		
Peak *	2483.600	28.18	6.45	8.62	43.25	74.00	30.75
Fundamental	2480.200	28.18	6.44	52.91	87.53		
Average *	2483.600	28.18	6.45	7.05	41.68	54.00	12.32

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2470-2520MHz).
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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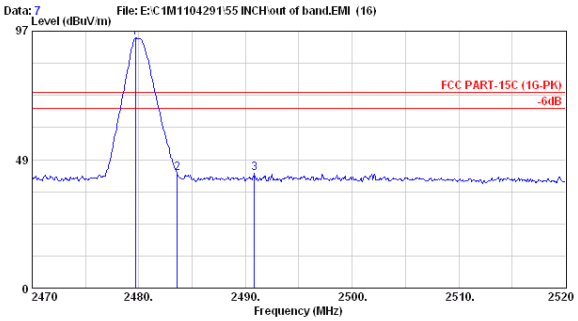


```
Site no.      : A/C Chamber              Data no.  : 7
Dis. / Ant.   : 3m   3115(3775)          Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : E4446A 25*C /56%         Engineer  : Jarwei Wang
EUT           : BCM92046MD_EMB
Power Rating  : DC 3.3 via TV
Test Mode     : TX2480(GFSK)
```

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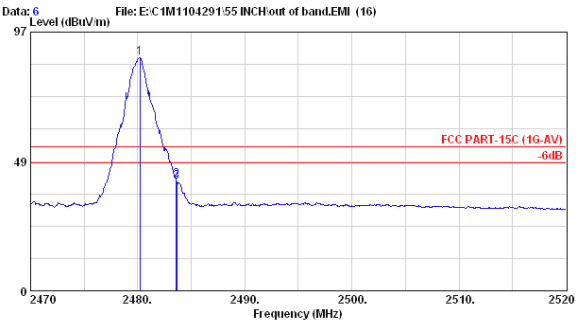


```
Site no.      : A/C Chamber              Data no.  : 6
Dis. / Ant.   : 3m   3115(3775)          Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 25*C /56%         Engineer  : Jarwei Wang
EUT           : BCM92046MD_EMB
Power Rating  : DC 3.3 via TV
Test Mode     : TX2480(GFSK)
```

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D555SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2402MHz (CH0) Type of Modulation: 8-DPSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
Fundamental	2402.290	28.10	6.36	52.25	86.71		
Peak *	2356.970	28.06	6.29	8.57	42.92	74.00	31.08
Fundamental	2402.290	28.10	6.36	49.69	84.15		
Average *	2385.240	28.08	6.33	-2.56	31.85	54.00	22.15

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2420MHz).
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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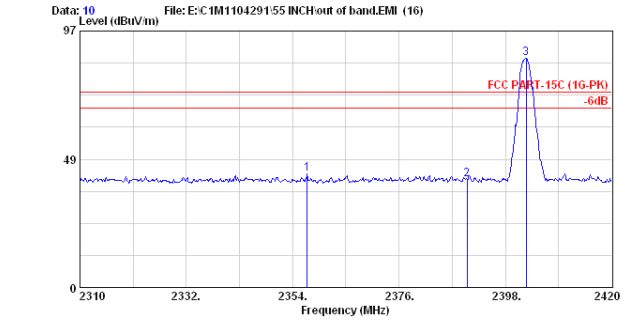

Site no. : A/C Chamber Data no. : 10
Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25*C /56% Engineer : Jarwei Wang
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2402(8DPSK)

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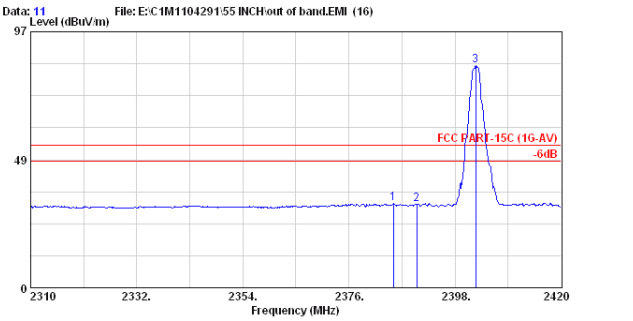

Site no. : A/C Chamber Data no. : 11
Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25*C /56% Engineer : Jarwei Wang
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2402(8DPSK)

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D555SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2402MHz (CH0) Type of Modulation: 8-DPSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
Fundamental	2401.740	28.10	6.35	53.86	88.31		
Peak *	2369.290	28.08	6.31	7.75	42.14	74.00	31.86
Fundamental	2402.290	28.10	6.36	51.44	85.90		
Average *	2383.590	28.08	6.33	-2.98	31.43	54.00	22.57

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2420MHz).
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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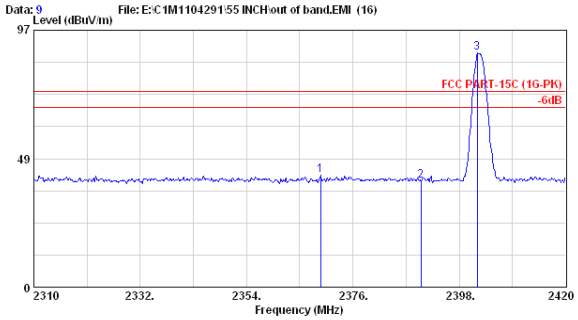

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25*C /56%
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2402(8DPSK)
Data no. : 9
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

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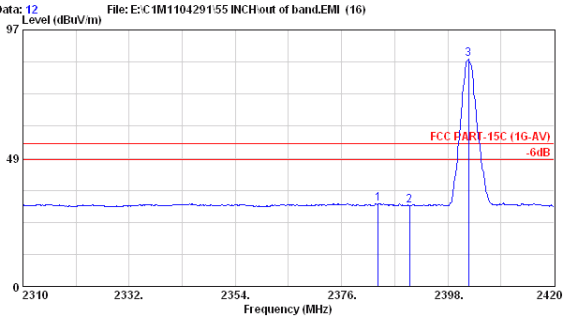

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25*C /56%
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2402(8DPSK)
Data no. : 12
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D555SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2480MHz (CH78) Type of Modulation: 8-DPSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Horizontal dBμV/m	Emission Level Horizontal dBμV/m	Limits dB	Margin
Fundamental	2479.600	28.18	6.44	50.70	85.32		
Peak *	2498.700	28.20	6.47	8.37	43.04	74.00	30.96
Fundamental	2479.950	28.18	6.44	46.79	81.41		
Average *	2483.600	28.18	6.45	2.46	37.09	54.00	16.91

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2470-2520MHz).
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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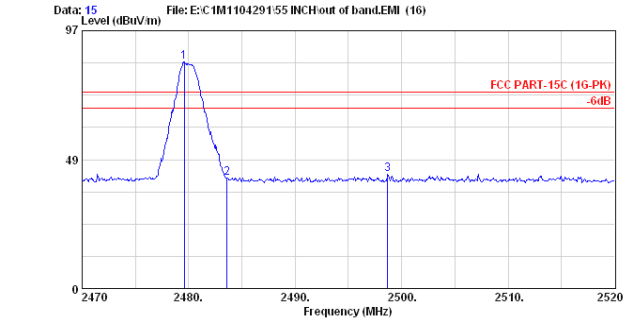

Site no. : A/C Chamber Data no. : 15
Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25*C /56% Engineer : Jarwei Wang
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2480(8DPSK)

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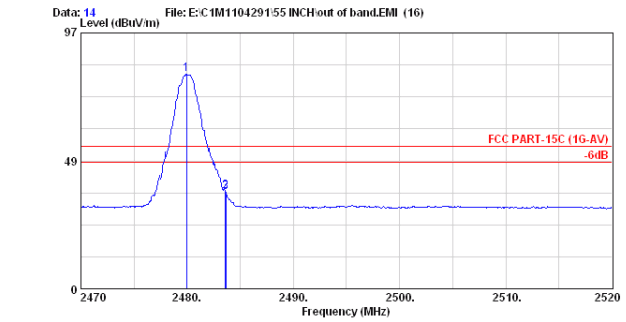

Site no. : A/C Chamber Data no. : 14
Dis. / Ant. : 3m 3115(3775) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25*C /56% Engineer : Jarwei Wang
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2480(8DPSK)

Date of Test：	May 13, 2011	Temperature：	25℃
EUT：	Bluetooth Embedded Module (With Host LCD TV: VIZIO XVT3D475SP)	Humidity：	56%
Test Mode：	Transmitting Mode, Frequency: 2480MHz (CH78) Type of Modulation: 8-DPSK		

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dBμV	Meter Reading Vertical dBμV/m	Emission Level Vertical dBμV/m	Limits dB	Margin
Fundamental	2480.200	28.18	6.44	53.37	87.99		
Peak *	2502.200.	28.20	6.45	6.11	40.76	74.00	33.24
Fundamental	2479.950	28.18	6.44	49.68	84.30		
Average *	2483.600	28.18	6.45	2.33	36.96	54.00	17.04

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2470-2520MHz).
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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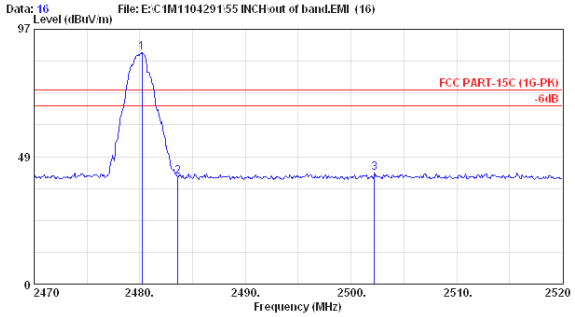

Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 25°C /56%
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2480(8DPSK)
Data no. : 16
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

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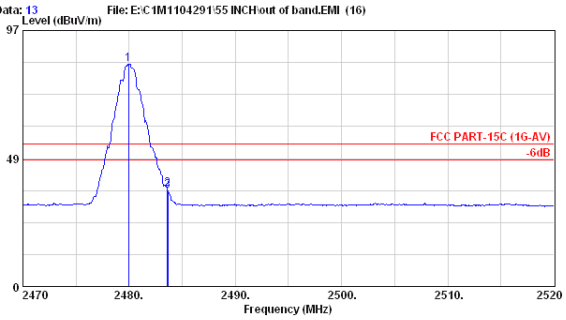


Site no. : A/C Chamber
Dis. / Ant. : 3m 3115(3775)
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 25°C /56%
EUT : BCM92046MD_EMB
Power Rating : DC 3.3 via TV
Test Mode : TX2480(8DPSK)
Data no. : 13
Ant. pol. : VERTICAL
Engineer : Jarwei Wang

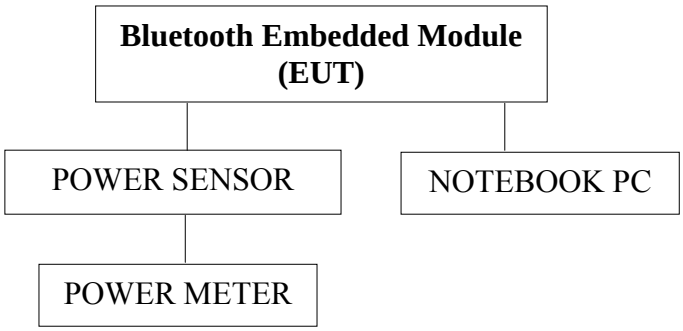
5. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

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	Feb. 11, 11'	Feb. 10, 12'
2.	Power Sensor	Antrisu	MA2491A	030873	Feb. 11, 11'	Feb. 10, 12'

5.2. Block Diagram of Test Setup



5.3. Specification Limits (§15.247(b)-(1))

The Limits of maximum Peak Output Power for frequency hopping systems in 2400-2483.5MHz is: 0.125Watt. (21dBm)

5.4. Operating Condition of EUT

5.4.1. Set up the EUT and simulator as shown on 5.2.

5.4.2. To turn on the power of all equipment.

5.4.3. The EUT (Bluetooth Embedded Module) was on transmitting frequency function during the testing.

5.5. Test Procedure follow DA00-705

The transmitter output was connected to the spectrum analyzer.
Span can encompass the waveform
RBW=VBW=1MHz
Sweep=Auto

5.6. Test Results

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

[Note: Two types of modulation (GFSK and 8-DPSK) were reported in this report.]

EUT：Bluetooth Embedded Module M/N：BCM92046MD_EMB

Test Date : May 11, 2011 Temperature : 27 ℃ Humidity : 61 %

5.6.1.Type of Modulation: GFSK

No.	Channel	Test Frequency	**Peak Output Power**	Limit
1.	0	2402MHz	**1.52dBm**	21dBm
2.	39	2441MHz	**1.31dBm**	21dBm
3.	78	2480MHz	**0.96dBm**	21dBm

5.6.2.Type of Modulation: 8-DPSK

No.	Channel	Test Frequency	**Peak Output Power**	Limit
1.	0	2402MHz	**-1.31dBm**	21dBm
2.	39	2441MHz	**-2.28dBm**	21dBm
3.	78	2480MHz	**-4.75dBm**	21dBm

6. DEVIATION TO TEST SPECIFICATIONS

【NONE】