

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

Prepared for : Amtran Technology Co., Ltd.
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Report Number : EM-F980656
Date of Test : Aug. 03 ~ 28, 2009
Date of Report : Sep. 01, 2009

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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 5V
 (D) TEST VOLTAGE : AC 120V, 60Hz (Via Notebook PC)

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, July. 2008
 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 report of EM-F980571.

Date of Test: Aug. 03 ~ 28, 2009 Date of Report: Sep. 01, 2009

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

Producer : 
 (Nita Lee/Administrator)

Review: 
 (Ben Cheng/Manager)

Signatory: 
 (Leon Liu/Deputy General 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 SV472XVT collocated with Bluetooth Embedded Module, FCC ID: MDZSV422XVT-BT. 2. Supplementary test data are recorded in test report.	EM-F980656

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	Bluetooth Embedded Module
Model Number	:	BCM92046MD_EMB
FCC ID	:	MDZSV422XVT-BT
Applicant	:	Amtran Technology Co., Ltd. 17F, No.268, Lien Chen Rd., Chung Ho City, Taipei County, Taiwan, 235 R.O.C.
Fundamental Range	:	2400MHz ~ 2483.5MHz
Channel Number	:	79
Radio Technology	:	FHSS Modulation
Antenna Gain	:	1.87dBi
Date of Receipt of Sample	:	Jul. 31, 2009
Date of Test	:	Aug. 03 ~ 28, 2009

Information for Class II Permissive Change:

1. This EUT is additional version with original FCC ID MDZSV422XVT-BT.
2. 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 SV472XVT collocated with Bluetooth Embedded Module, FCC ID: MDZSV422XVT-BT.
3. This report is based on report of EM-F980571.

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
20dB Bandwidth	± 0.2kHz
Carrier Frequency Separation	± 0.2kHz
Time Of Occupancy	± 0.03sec
Maximum peak Output power	± 0.52dBm
Emission Limitations	± 0.13dB
Band Edges	± 0.13dB

3. CONDUCTED EMISSION MEASUREMENT

【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	HP	8564EC	3946A00249	Oct. 24, 08'	Oct. 23, 09'
2.	Test Receiver	R & S	ESCS30	100265	Jul. 28, 09'	Jul. 27, 10'
3.	Amplifier	HP	8447D	2944A06305	Feb. 04, 09'	Feb. 03, 10'
4.	Log Periodic Antenna	Schwarzbeck	UHALP 9108-A	0810	Mar. 20, 09'	Mar. 19, 10'
5.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 20, 09'	Mar. 19, 10'

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	HP	8564EC	3946A00249	Oct. 24, 08'	Oct. 23, 09'
2.	Amplifier	HP	8449B	3008A01284	Jun. 17, 09'	Jun. 16, 10'
3.	Horn Antenna	EMCO	3115	9112-3775	May 15, 09'	May 14, 10'
4.	Horn Antenna	EMCO	3116	2653	Oct. 03, 08'	Oct. 02, 09'

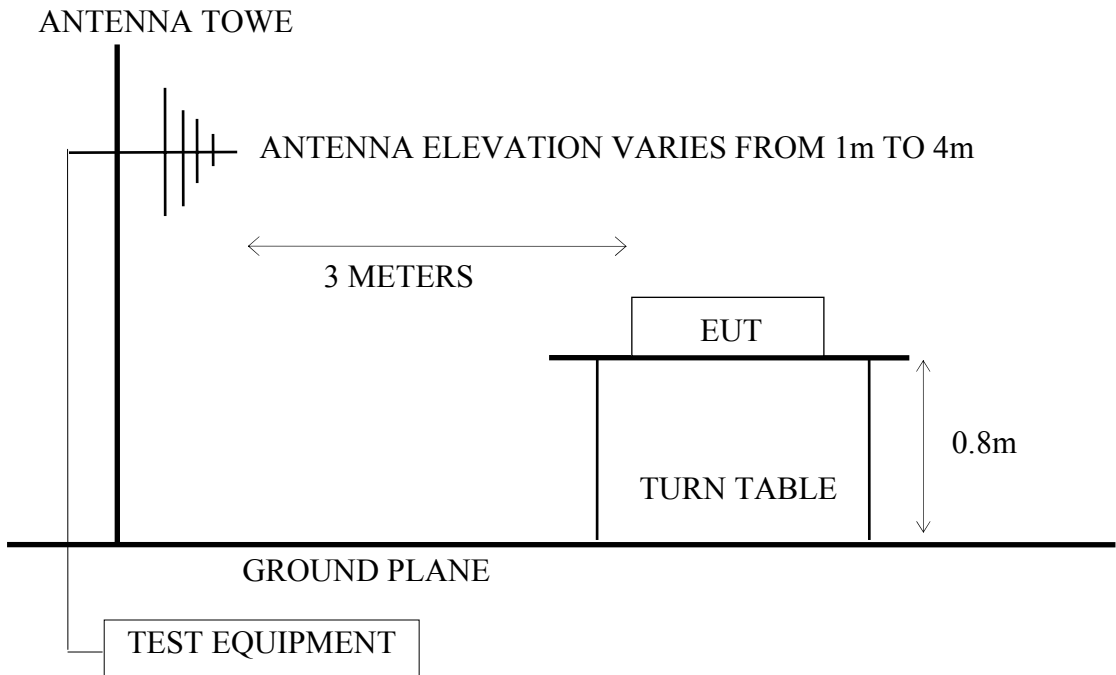
4.2. Test Setup

4.2.1. Block Diagram of connection between EUT and simulators

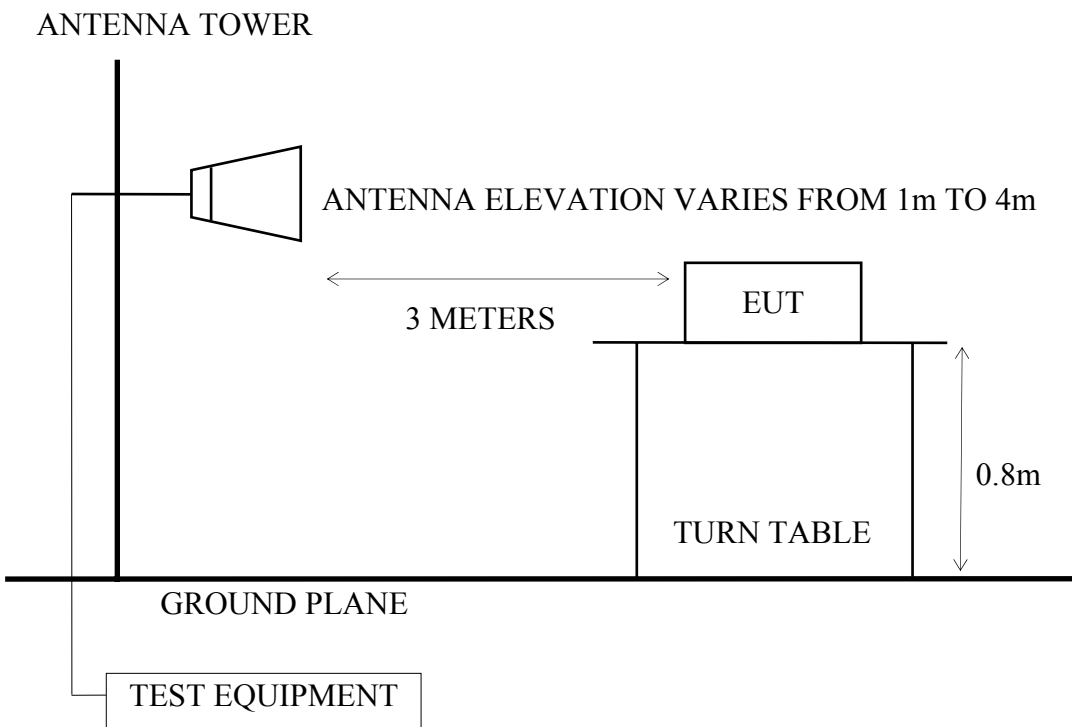
EUT: Bluetooth Embedded Module



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	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
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 $\text{dB}\mu\text{V/m}$ (Peak) 54.0 $\text{dB}\mu\text{V/m}$ (Average)	

- Remark :
- (1) Emission level ($\text{dB}\mu\text{V/m}$) = 20 log Emission level ($\mu\text{V/m}$)
 - (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.

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 : Aug. 27, 2009 Temperature : 28 Humidity : 58 %

For Frequency Range 30MHz~1000MHz:

[Note: Three types of modulation (GFSK and 8-DPSK and $\pi/4$ -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		Reference Test Data No.	
				Horizontal	Vertical
1.	VIZIO SV472XVT	Transmitting	2402MHz (CH0)	# 8	# 7
2.			2441MHz (CH39)	# 9	# 10
3.			2480MHz (CH78)	# 10	# 9
4.		Receiving	2441MHz (CH39)	# 9	# 10

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 SV472XVT	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

Remark 1 : The emissions level were too low against the official limit and not report.

Remark 2 : The average measurement of frequency range from 1000MHz to 25000MHz is measured at 1m distance and doesn't find any spurious emission in this frequency range. So just provide the peak measurement results.

Remark 3 : 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 SV472XVT	GFSK	Transmitting	2402MHz (CH0)	# 2, # 3	# 1 , # 4
2.				2480MHz (CH78)	# 7, # 6	# 8, # 5
3.		8-DPSK	Transmitting	2402MHz (CH0)	# 2, # 3	# 1 , # 4
4.				2480MHz (CH78)	# 6, # 7	# 5, # 8

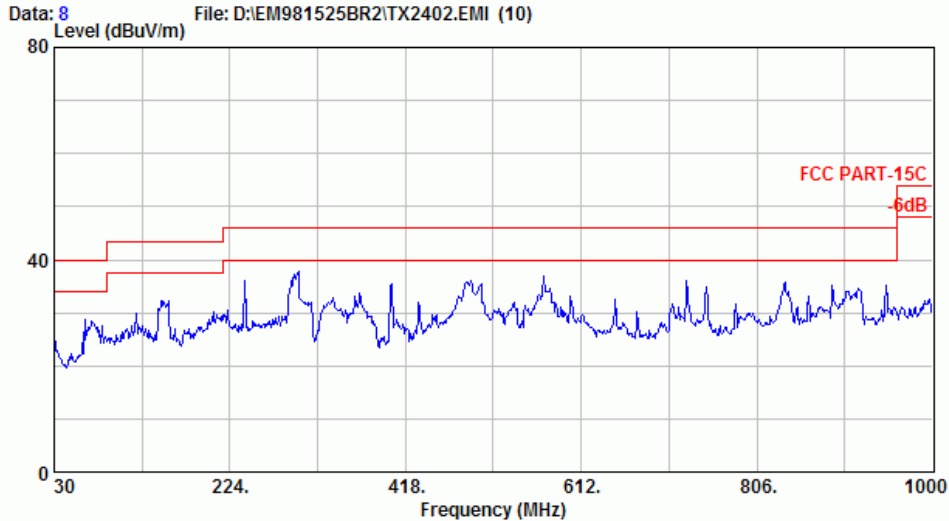
[Note: Two types of modulation (GFSK and 8-DPSK) were reported in section 4.6.3]

4.6.1. 30MHz~ 1000MHz Frequency Range Measurement Result

Host (LCD TV): VIZIO SV472XVT



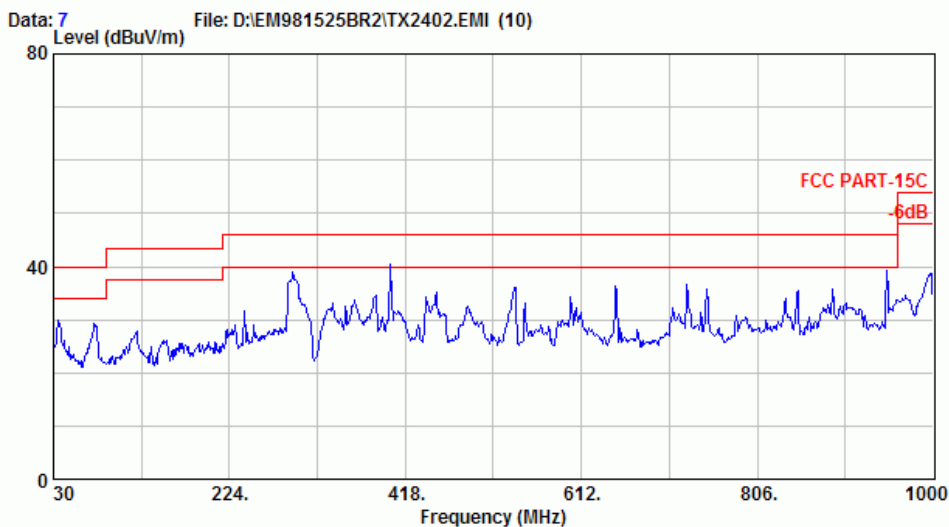
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Site no. : site Data no. : 8
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2402MHz



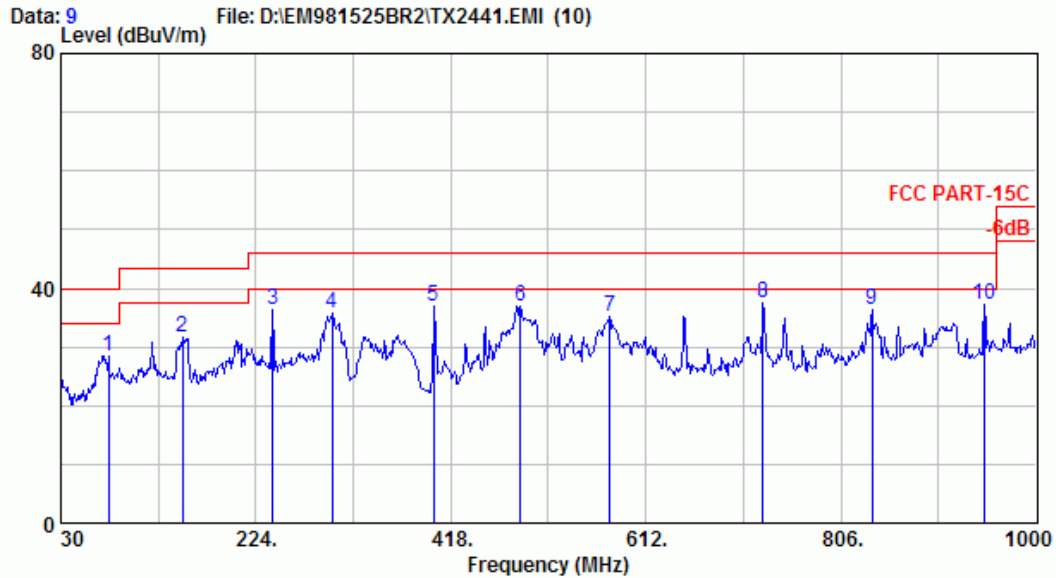
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Site no. : site Data no. : 7
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2402MHz



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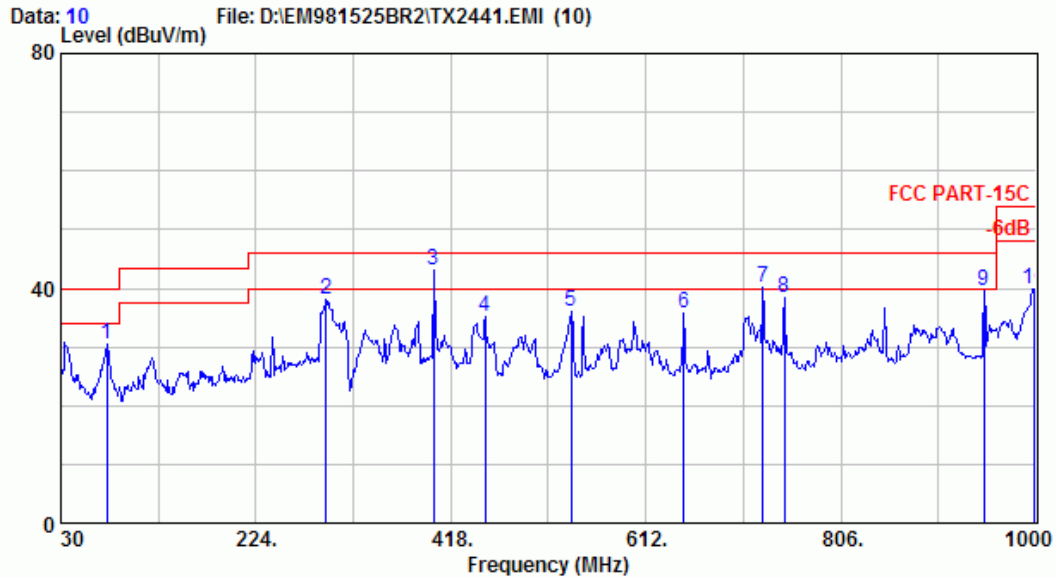
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 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	77.530	13.22	1.80	13.35	28.37	40.00	11.63	
2	151.250	20.65	2.60	8.31	31.56	43.50	11.94	
3	240.490	23.10	3.40	9.72	36.22	46.00	9.78	
4	299.660	26.77	3.90	4.95	35.62	46.00	10.38	
5	400.540	17.66	4.80	14.50	36.96	46.00	9.04	
6	486.870	18.67	6.20	12.04	36.91	46.00	9.09	
7	576.110	21.05	6.40	7.84	35.29	46.00	10.71	
8	728.400	21.99	6.60	8.80	37.39	46.00	8.61	
9	837.040	24.94	7.10	4.34	36.38	46.00	9.62	
10	948.590	25.88	7.50	3.72	37.10	46.00	8.90	

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



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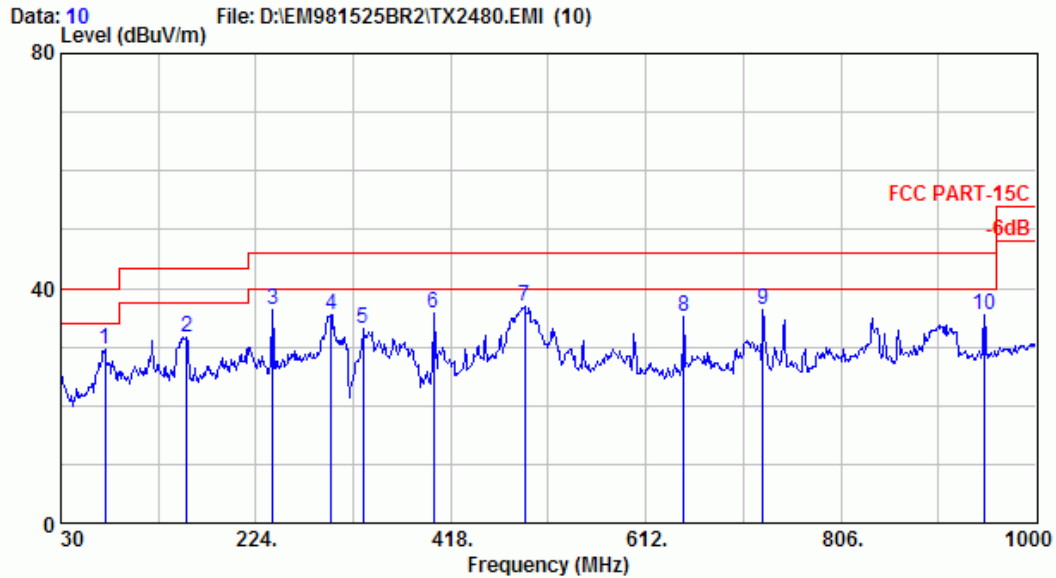
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 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 28*C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2441MHz

	Freq.	Ant.	Cable	Emission			Margin	Remark
	(MHz)	Factor	Loss	Reading	Level	Limits	(dB)	
		(dB/m)	(dB)	(dBµV)	(dBµV/m)	(dBµV/m)		
1	75.590	12.88	1.80	15.80	30.48	40.00	9.52	
2	293.840	26.33	3.96	7.77	38.06	46.00	7.94	
3	400.540	17.66	4.80	20.60	43.06	46.00	2.94	
4	451.950	17.65	5.40	12.25	35.30	46.00	10.70	
5	537.310	19.41	7.10	9.40	35.91	46.00	10.09	
6	649.830	21.50	6.30	7.96	35.76	46.00	10.24	
7	728.400	21.99	6.60	11.57	40.16	46.00	5.84	
8	749.740	23.25	6.70	8.39	38.34	46.00	7.66	
9	948.590	25.88	7.50	6.30	39.68	46.00	6.32	
10	998.060	24.70	7.80	7.42	39.92	54.00	14.08	

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



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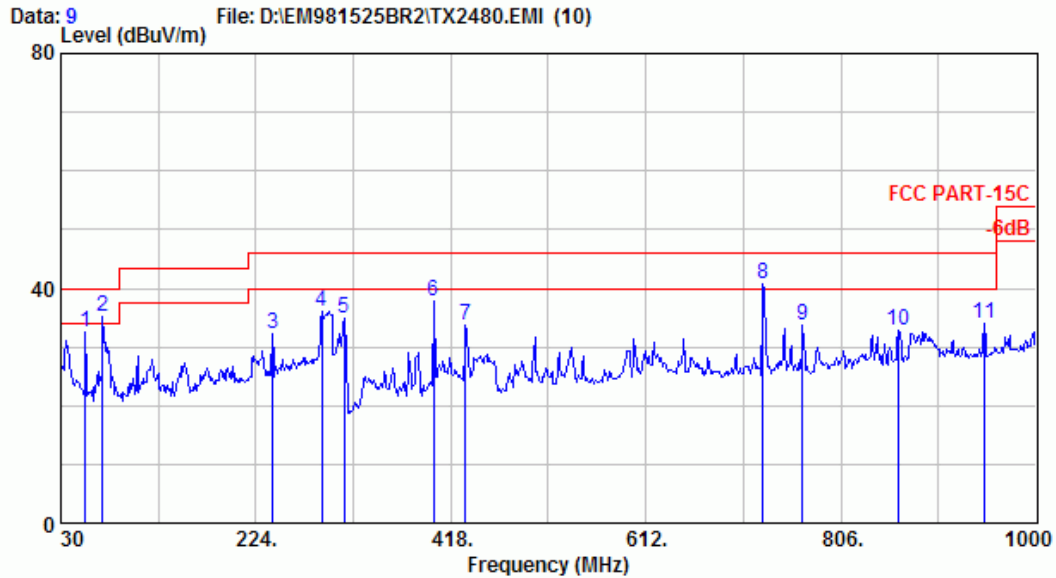
Site no. : site Data no. : 10
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	73.650	12.59	1.80	15.14	29.53	40.00	10.47	
2	155.130	20.71	2.63	8.42	31.75	43.50	11.75	
3	240.490	23.10	3.40	9.86	36.36	46.00	9.64	
4	298.690	26.72	3.90	4.86	35.48	46.00	10.52	
5	330.700	15.32	4.20	13.45	32.97	46.00	13.03	
6	400.540	17.66	4.80	13.29	35.75	46.00	10.25	
7	491.720	18.61	6.33	12.10	37.04	46.00	8.96	
8	649.830	21.50	6.30	7.38	35.18	46.00	10.82	
9	728.400	21.99	6.60	7.77	36.36	46.00	9.64	
10	948.590	25.88	7.50	1.94	35.32	46.00	10.68	

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



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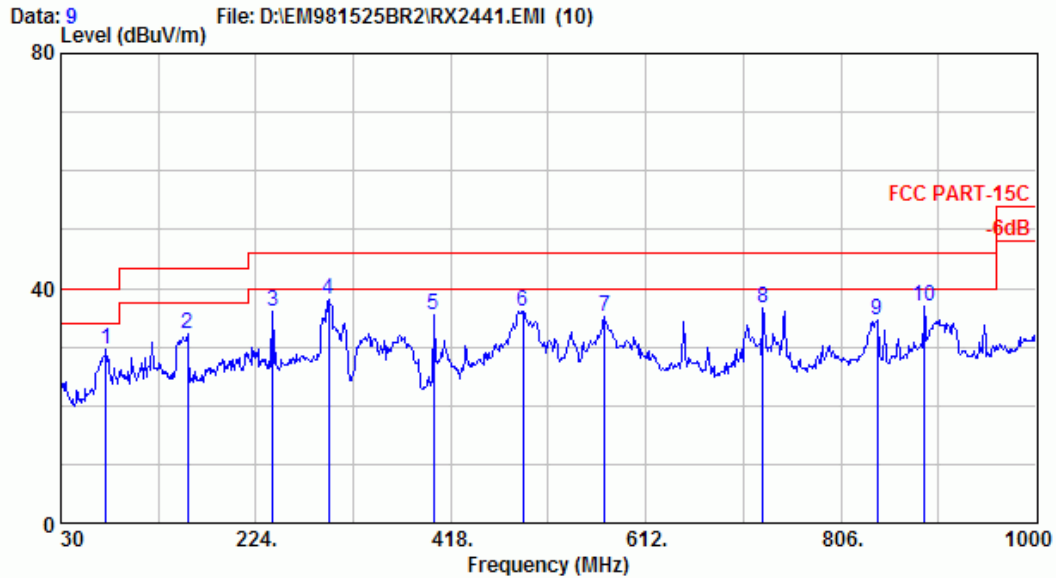
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 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	54.250	14.79	1.50	16.25	32.54	40.00	7.46	
2	71.710	12.26	1.80	21.14	35.21	40.00	4.79	
3	240.490	23.10	3.40	5.76	32.26	46.00	13.74	
4	289.960	26.08	3.80	6.17	36.05	46.00	9.95	
5	312.270	14.76	4.00	16.00	34.76	46.00	11.24	
6	400.540	17.66	4.80	15.47	37.93	46.00	8.07	
7	432.550	17.28	5.20	11.36	33.84	46.00	12.16	
8	728.400	21.99	6.60	12.01	40.60	46.00	5.40	
9	768.170	23.87	6.80	3.04	33.71	46.00	12.29	
10	863.230	26.09	7.20	-0.34	32.95	46.00	13.05	
11	948.590	25.88	7.50	0.48	33.86	46.00	12.14	

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



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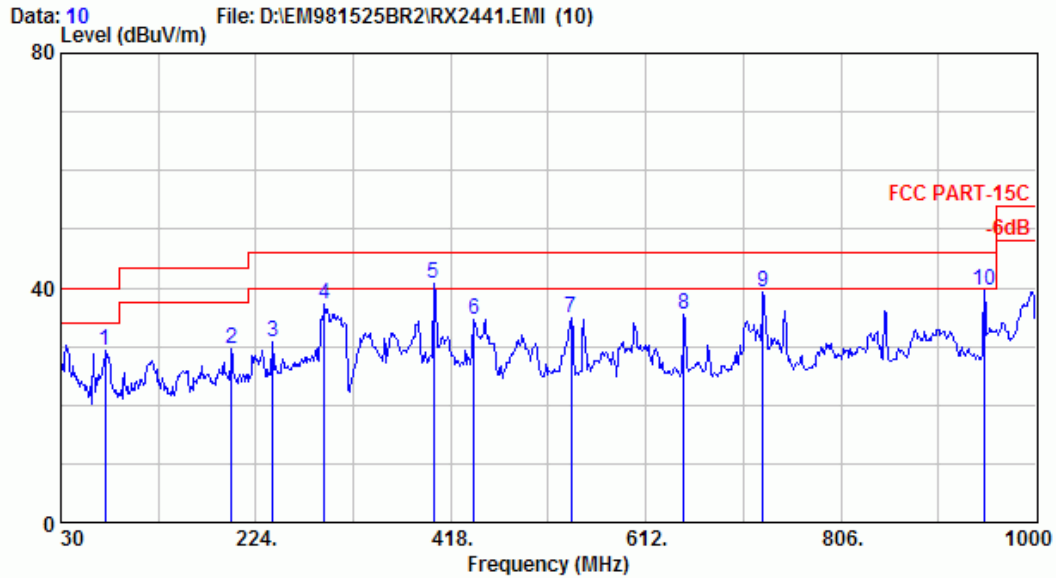
Site no. : site Data no. : 9
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : RX2441MHz

	Ant.	Cable	Emission				Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBµV)	Level (dBµV/m)	Limits (dBµV/m)	(dB)		
1	74.620	12.72	1.80	14.97	29.48	40.00	10.52	
2	156.100	20.70	2.70	8.96	32.36	43.50	11.14	
3	240.490	23.10	3.40	9.60	36.10	46.00	9.90	
4	296.750	26.59	4.00	7.55	38.14	46.00	7.86	
5	400.540	17.66	4.80	12.99	35.45	46.00	10.55	
6	489.780	18.56	6.30	11.26	36.12	46.00	9.88	
7	571.260	21.14	6.50	7.53	35.17	46.00	10.83	
8	728.400	21.99	6.60	8.11	36.70	46.00	9.30	
9	841.890	25.11	7.10	2.38	34.59	46.00	11.41	
10	889.420	25.09	7.30	4.61	37.00	46.00	9.00	

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



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 Email:ttmc@ttmc.com.tw



Site no. : site Data no. : 10
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 28*C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : RX2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	73.650	12.59	1.80	15.01	29.40	40.00	10.60	
2	199.750	22.09	3.00	4.56	29.65	43.50	13.85	
3	240.490	23.10	3.40	4.40	30.90	46.00	15.10	
4	291.900	26.17	3.90	7.04	37.11	46.00	8.89	
5	400.540	17.66	4.80	18.42	40.88	46.00	5.12	
6	441.280	17.63	5.30	11.55	34.49	46.00	11.51	
7	537.310	19.41	7.10	8.25	34.76	46.00	11.24	
8	649.830	21.50	6.30	7.80	35.60	46.00	10.40	
9	728.400	21.99	6.60	10.79	39.38	46.00	6.62	
10	948.590	25.88	7.50	6.27	39.65	46.00	6.35	

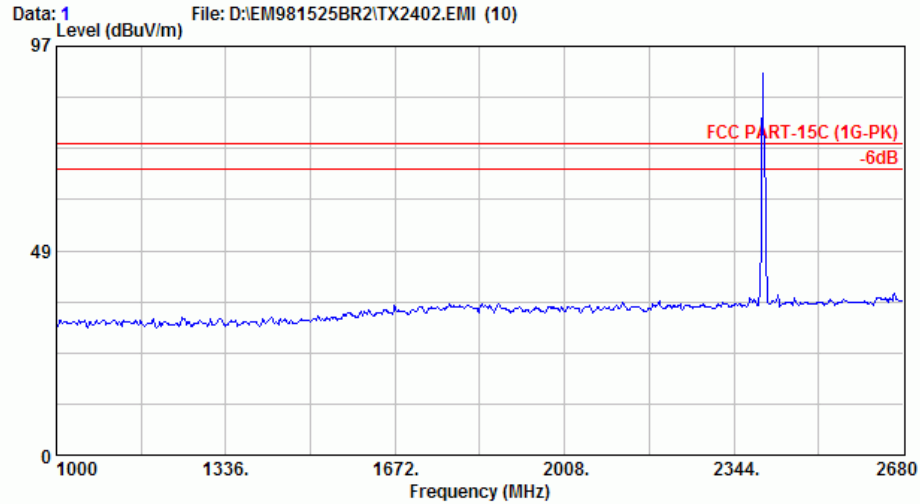
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

4.6.2. Above 1GHz Frequency Range Measurement Results

Test Mode: Transmitting Mode, Frequency: 2402MHz (CH0) with Host (LCD TV): VIZIO SV472XVT



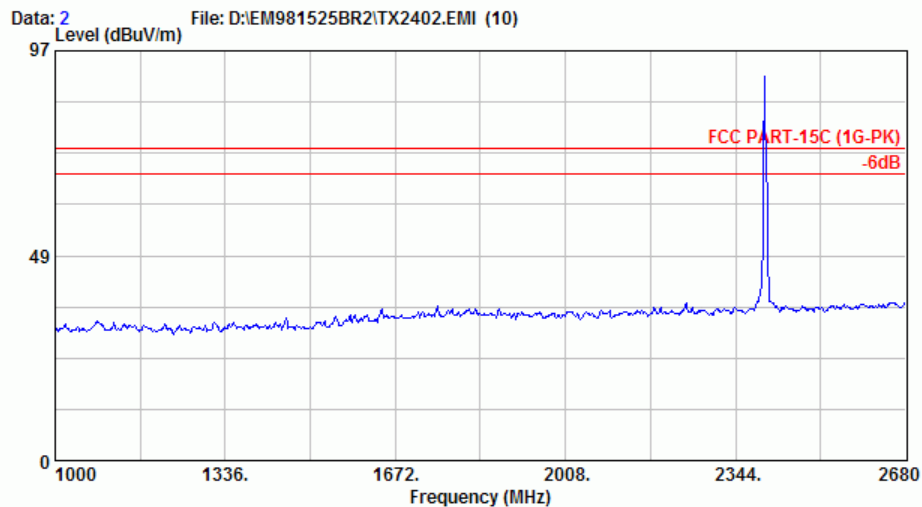
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 Email:ttmc@ttmc.com.tw



Site no. : site Data no. : 1
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2402MHz



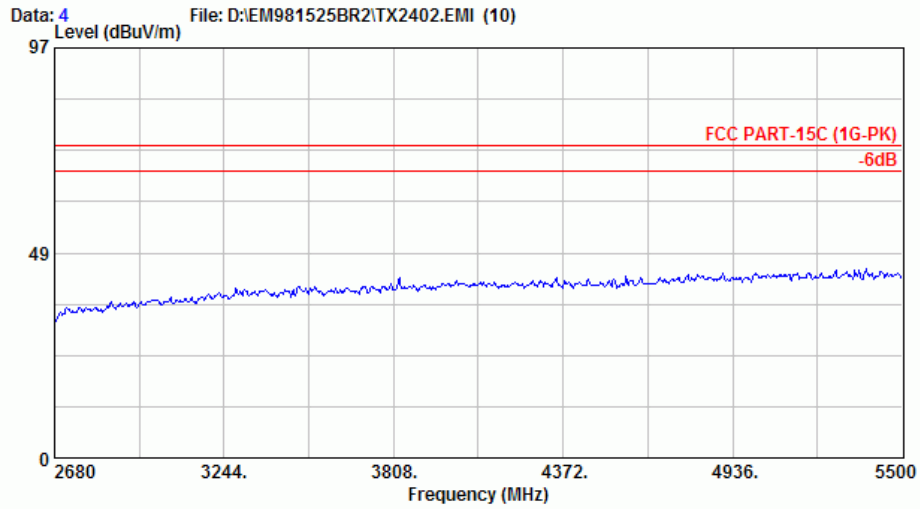
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 Email:ttmc@ttmc.com.tw



Site no. : site Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2402MHz



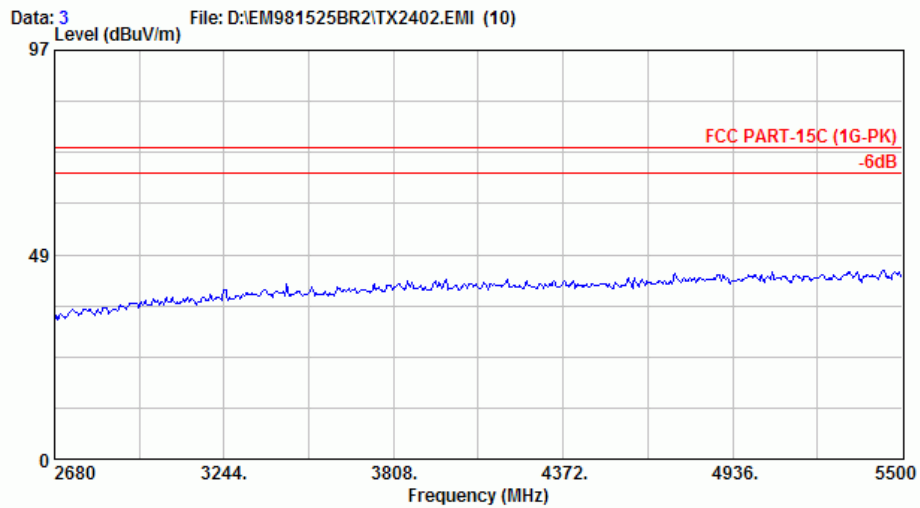
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 Email:ttemc@ttemc.com.tw



Site no. : site Data no. : 4
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2402MHz



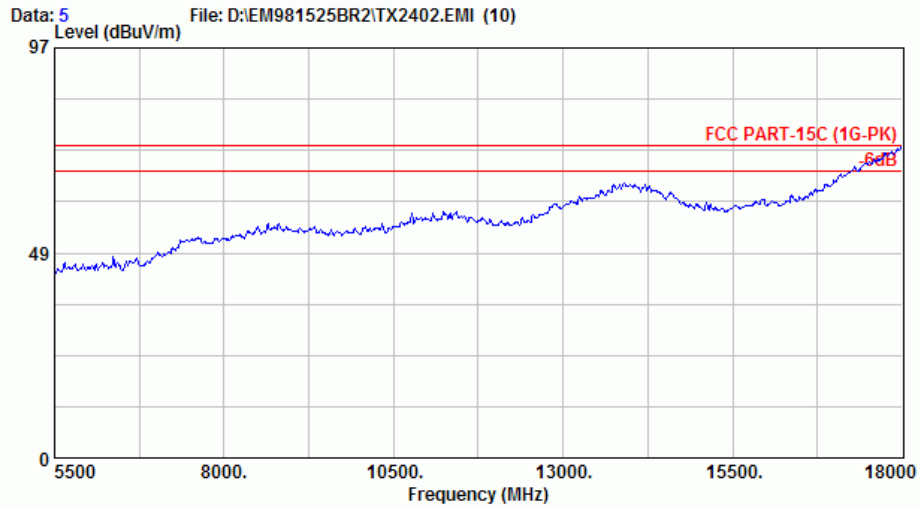
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 Email:ttemc@ttemc.com.tw



Site no. : site Data no. : 3
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2402MHz



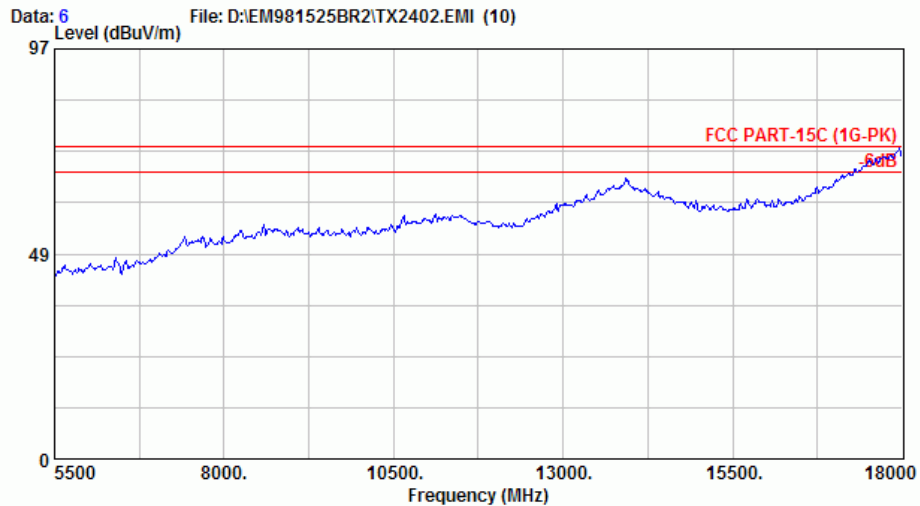
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 Email:ttemc@ttemc.com.tw



Site no. : site Data no. : 5
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28*C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2402MHz



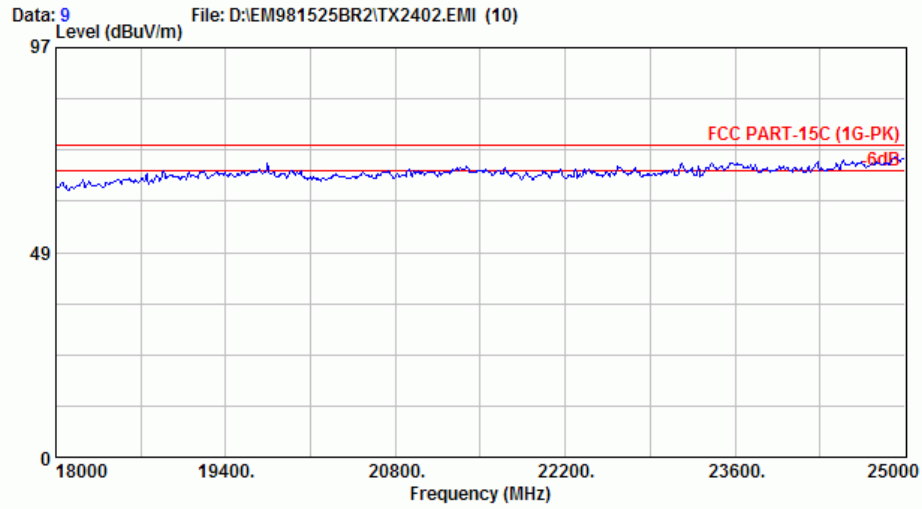
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Site no. : site Data no. : 6
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28*C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2402MHz



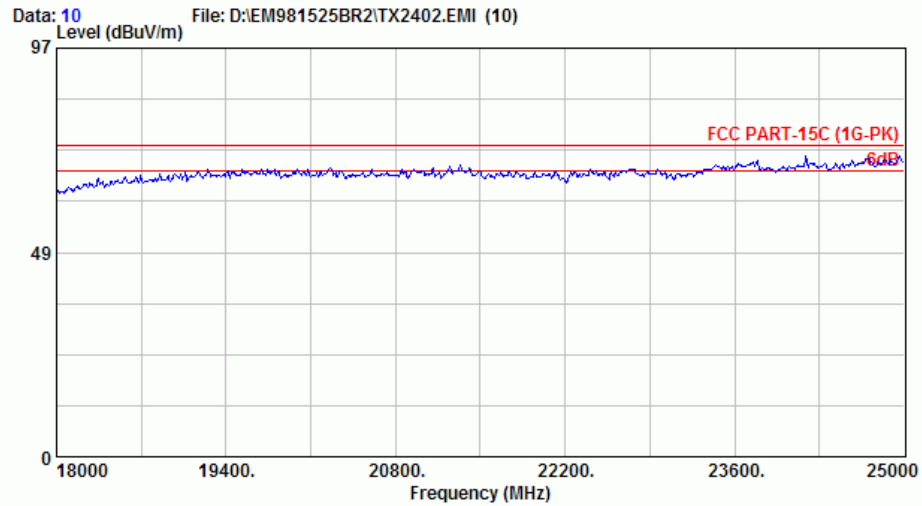
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 Email:ttemc@ttemc.com.tw



Site no. : site Data no. : 9
 Dis. / Ant. : 3m 3116 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2402MHz



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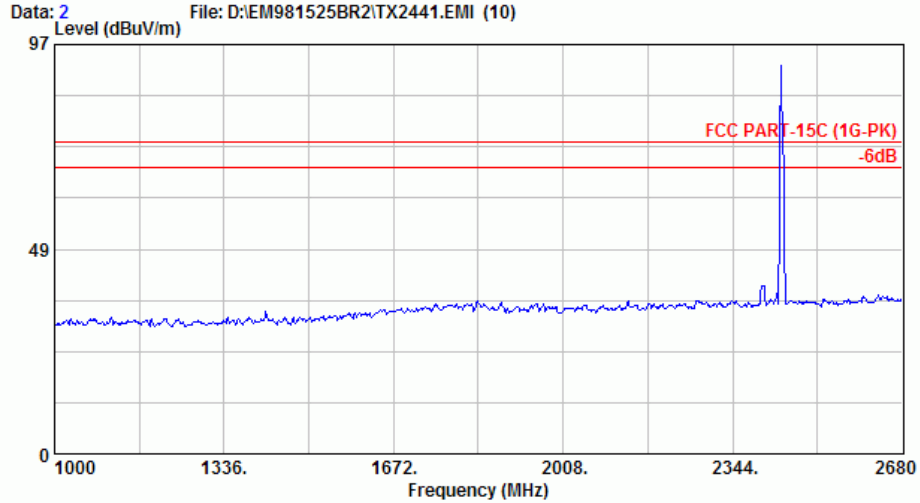


Site no. : site Data no. : 10
 Dis. / Ant. : 3m 3116 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2402MHz

Test Mode: Transmitting Mode, Frequency: 2441MHz (CH39) with Host (LCD TV): VIZIO SV472XVT



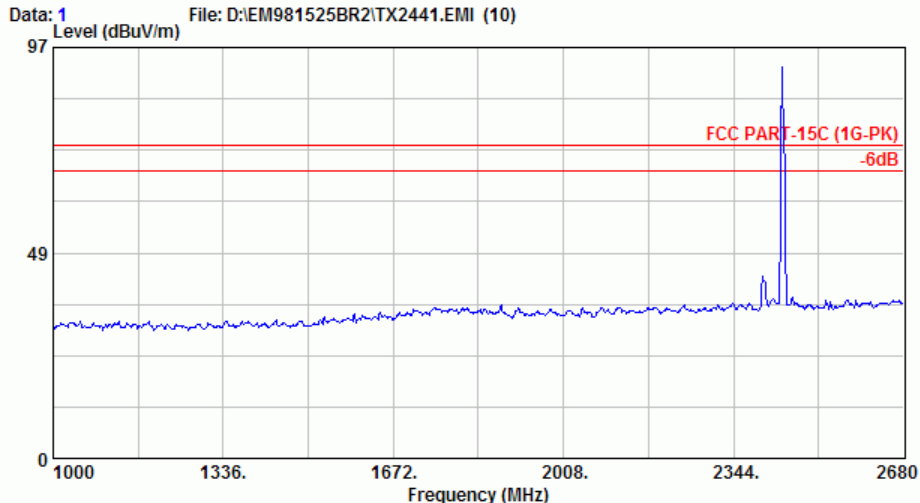
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Site no. : site Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2441MHz



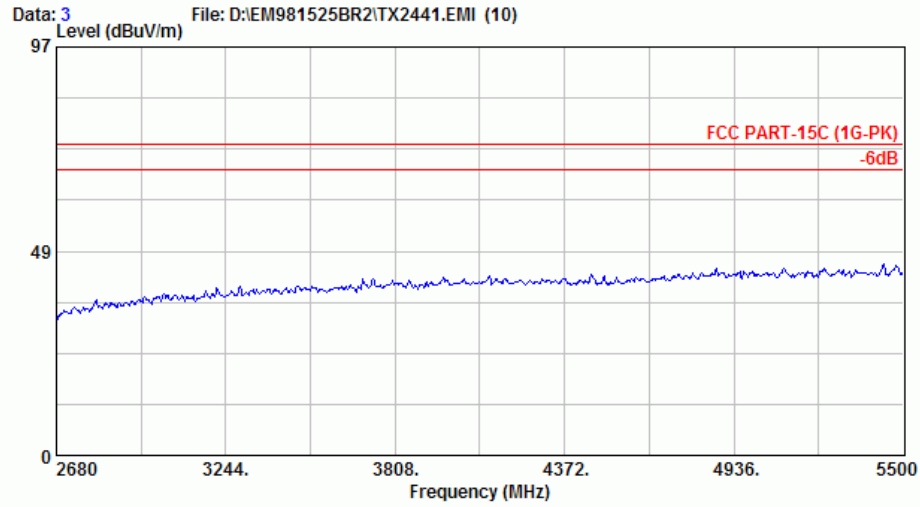
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Site no. : site Data no. : 1
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2441MHz



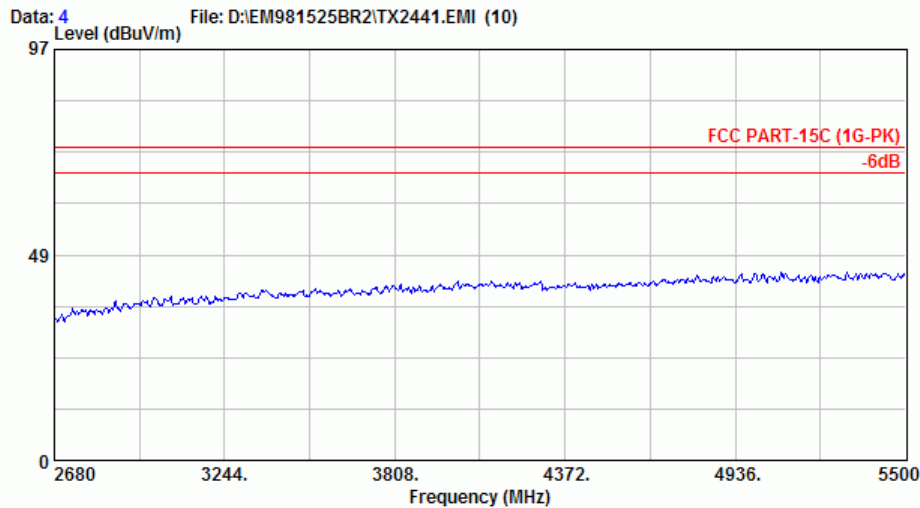
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Site no. : site Data no. : 3
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2441MHz



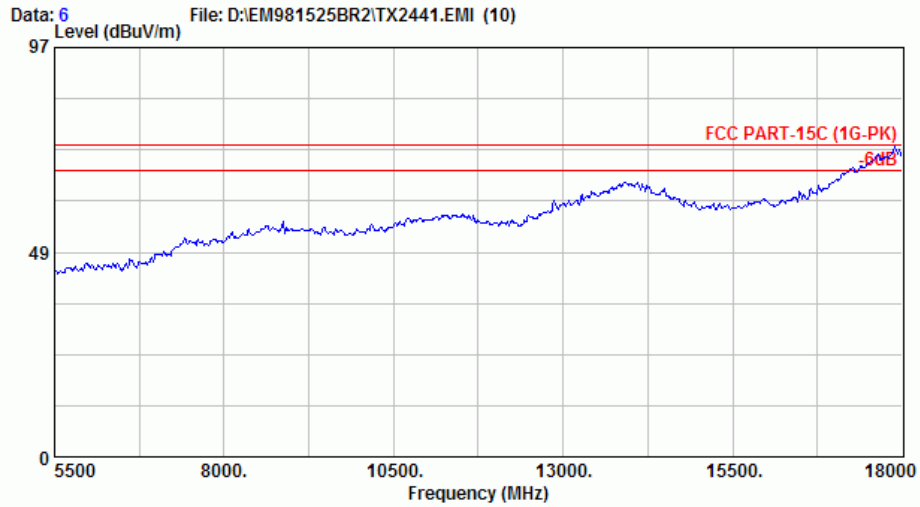
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Site no. : site Data no. : 4
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2441MHz



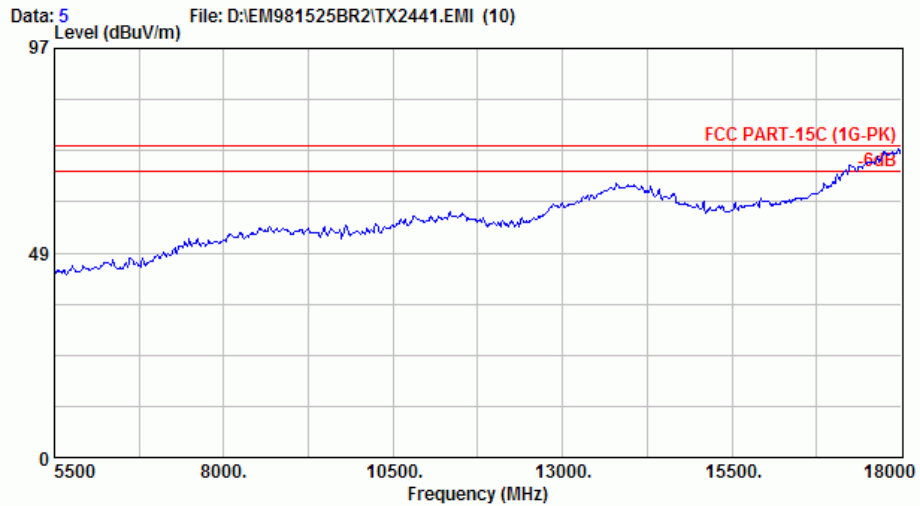
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Site no. : site Data no. : 6
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2441MHz



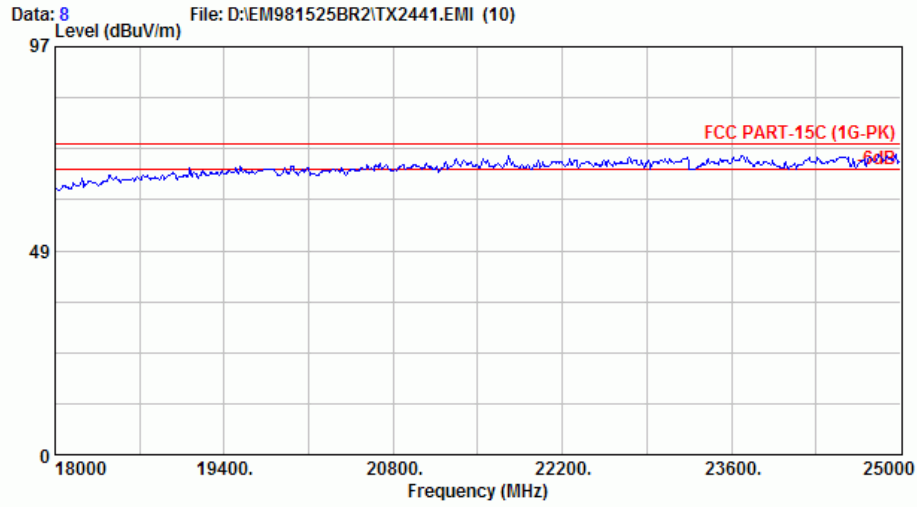
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Site no. : site Data no. : 5
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2441MHz



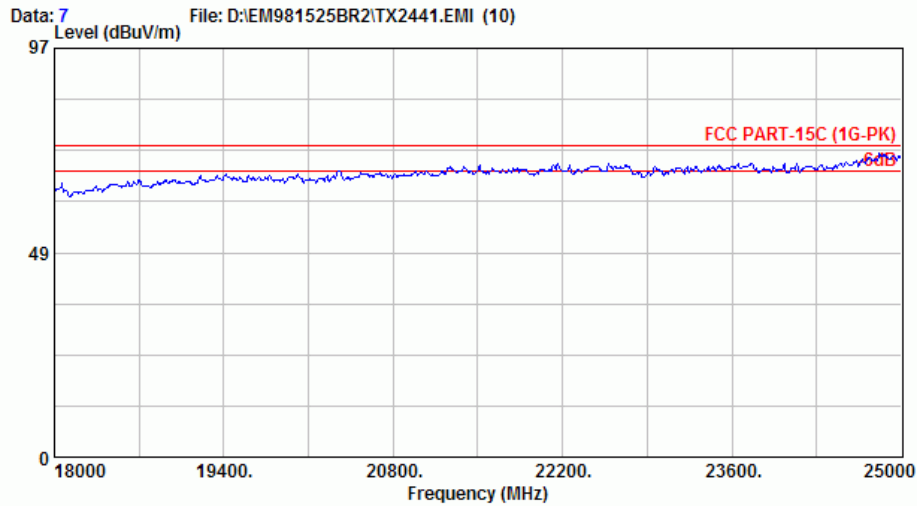
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 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no.	: site	Data no.	: 8
Dis. / Ant.	: 3m 3116	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 28°C/58%	Engineer	: Jarwei Wang
EUT	: Bluetooth Embedded Module		
Power Rating	: 120Vac/60Hz M/N:BCM92046MD_EMB		
Test Mode	: TX2441MHz		



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 Email:ttmc@ttmc.com.tw

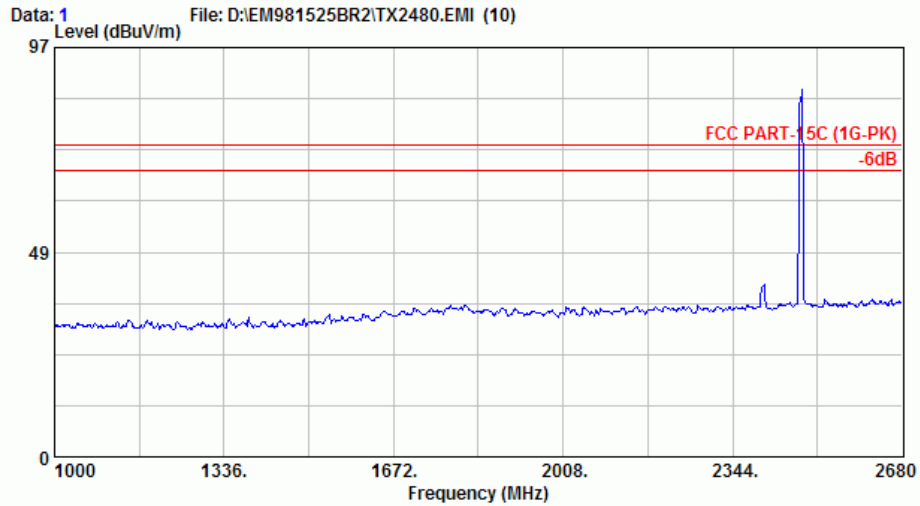


Site no.	: site	Data no.	: 7
Dis. / Ant.	: 3m 3116	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 28°C/58%	Engineer	: Jarwei Wang
EUT	: Bluetooth Embedded Module		
Power Rating	: 120Vac/60Hz M/N:BCM92046MD_EMB		
Test Mode	: TX2441MHz		

Test Mode: Transmitting Mode, Frequency: 2480MHz (CH78) with Host (LCD TV): VIZIO SV472XVT



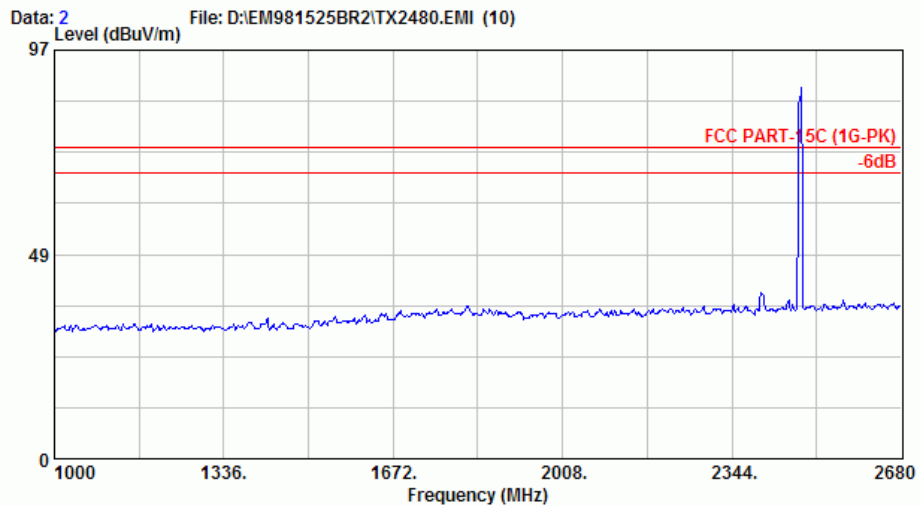
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 Email:ttemc@ttemc.com.tw



Site no. : site Data no. : 1
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28*C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2480MHz



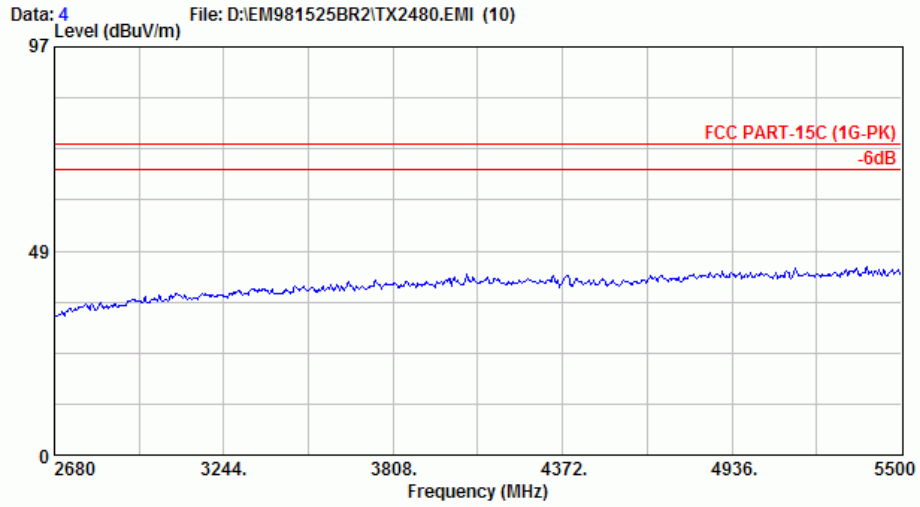
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 Email:ttemc@ttemc.com.tw



Site no. : site Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28*C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2480MHz



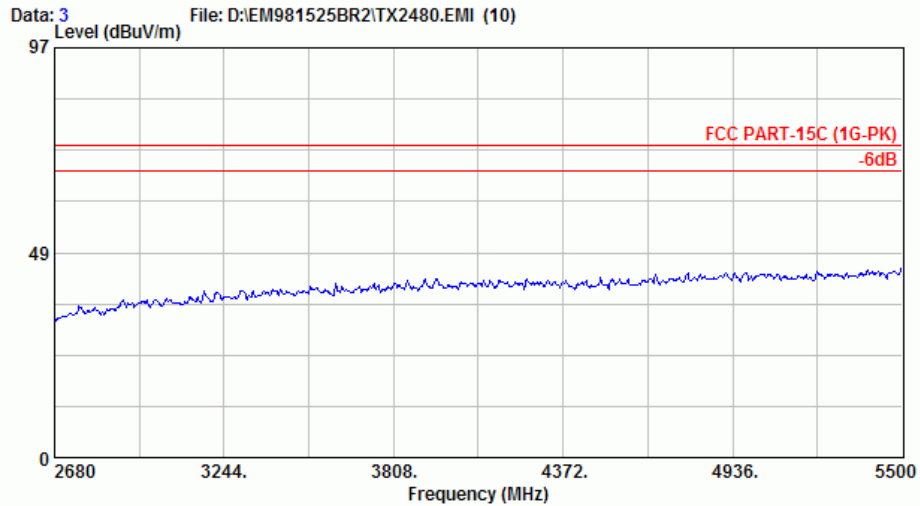
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 Email:ttemc@ttemc.com.tw



Site no. : site Data no. : 4
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2480MHz



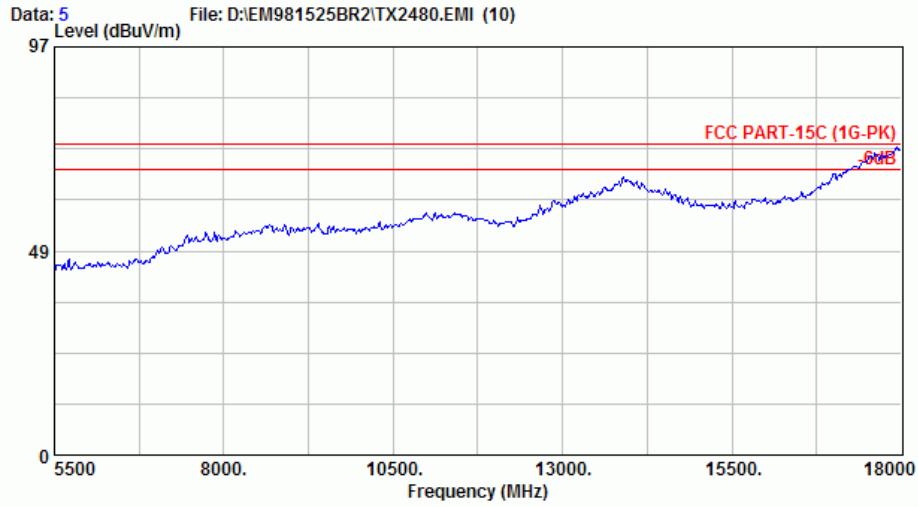
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 Email:ttemc@ttemc.com.tw



Site no. : site Data no. : 3
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2480MHz



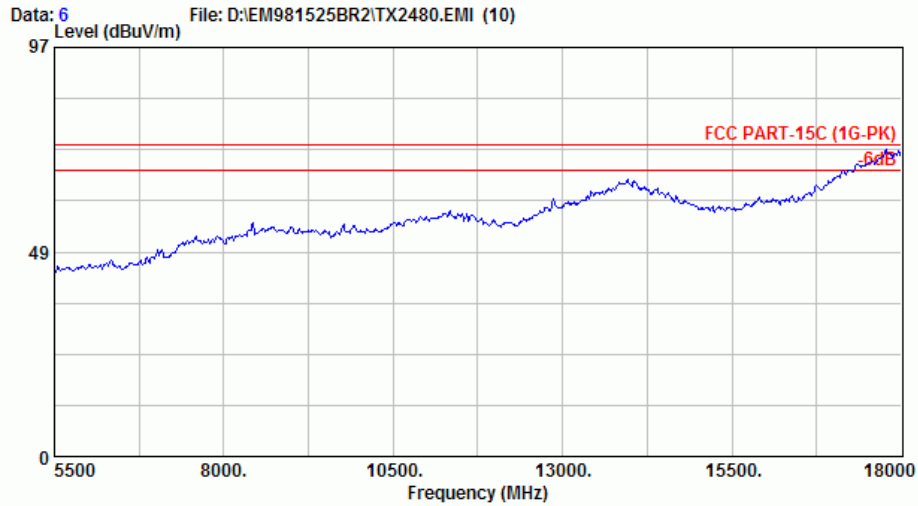
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 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : site Data no. : 5
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2480MHz



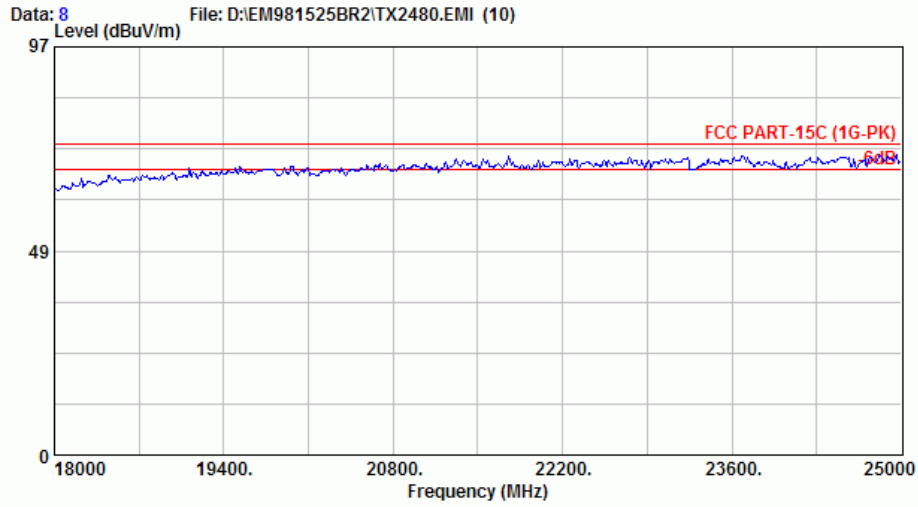
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Site no. : site Data no. : 6
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2480MHz



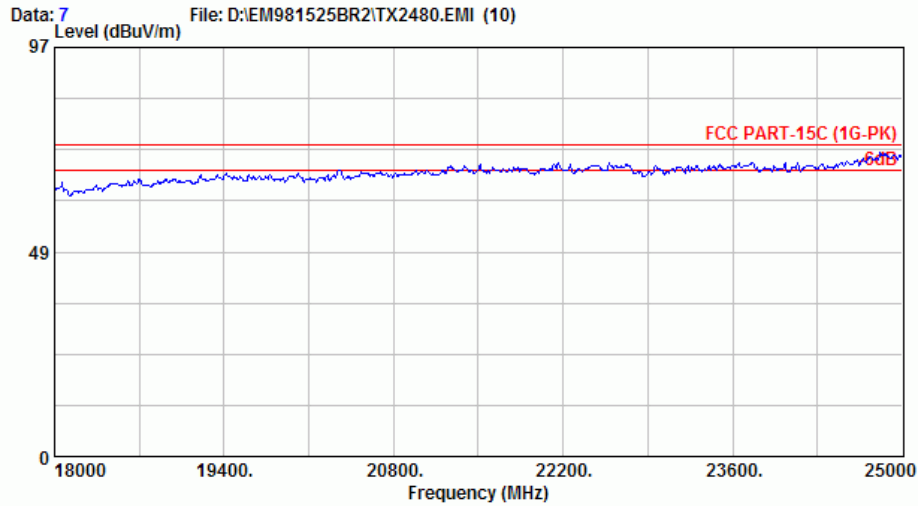
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 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



Site no. : site Data no. : 8
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2480MHz



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 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
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 Email:ttemc@ttemc.com.tw

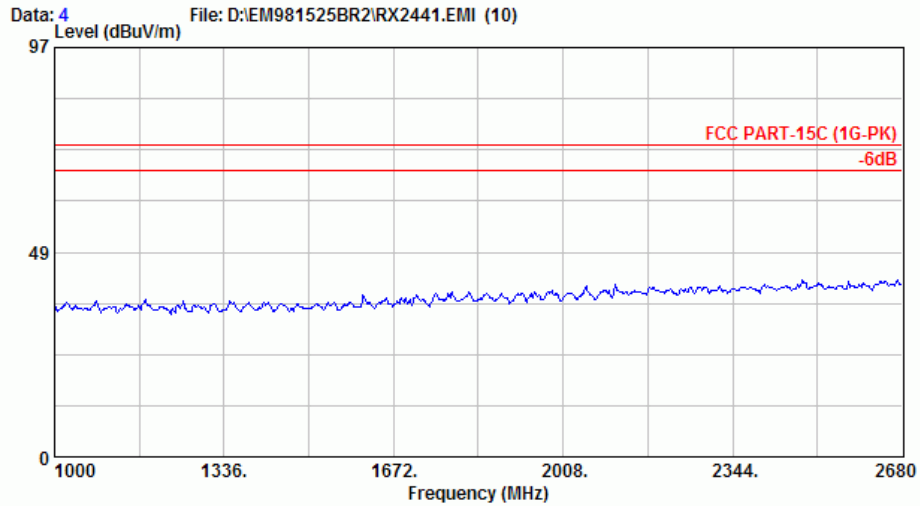


Site no. : site Data no. : 7
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : TX2480MHz

Test Mode: Receiving Mode, Frequency: 2441MHz (CH39) with Host (LCD TV): VIZIO SV472XVT



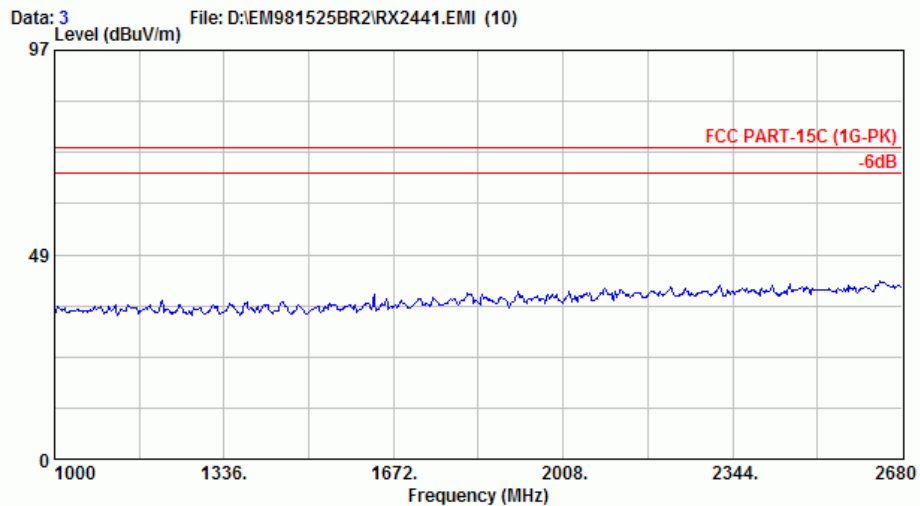
AUDIX TECHNOLOGY Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



Site no. : A/C Chamber Data no. : 4
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : RX2441MHz



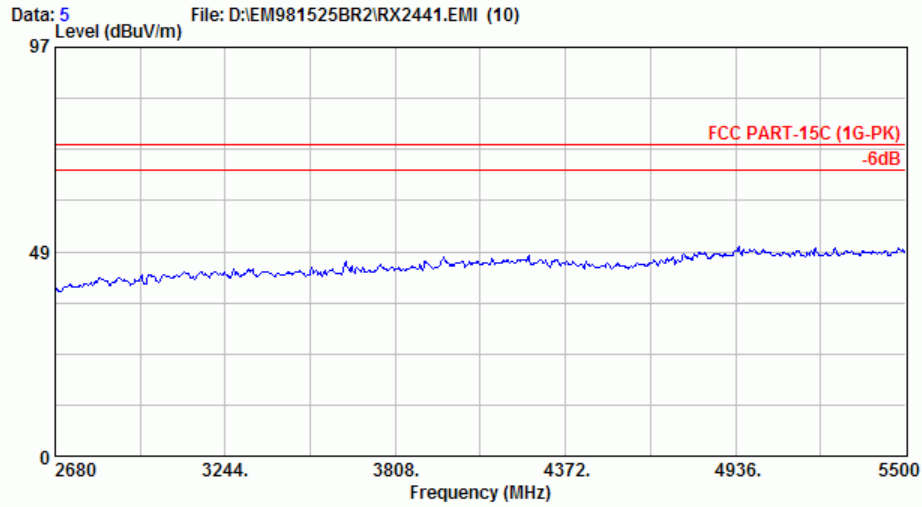
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 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



Site no. : A/C Chamber Data no. : 3
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : RX2441MHz



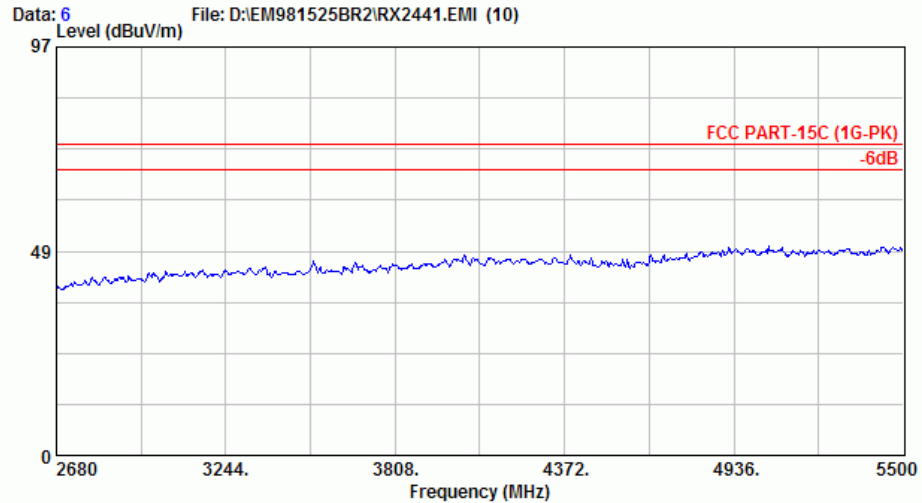
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 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 5
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : RX2441MHz



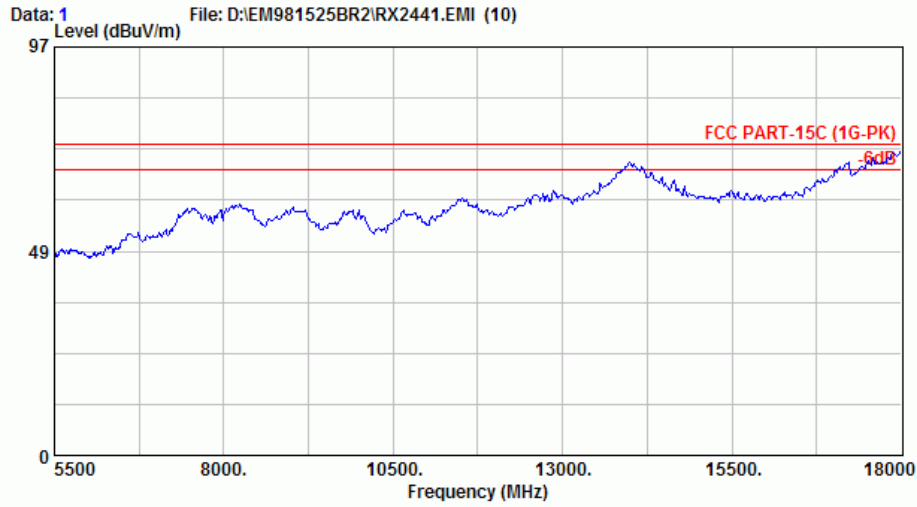
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 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 6
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : RX2441MHz



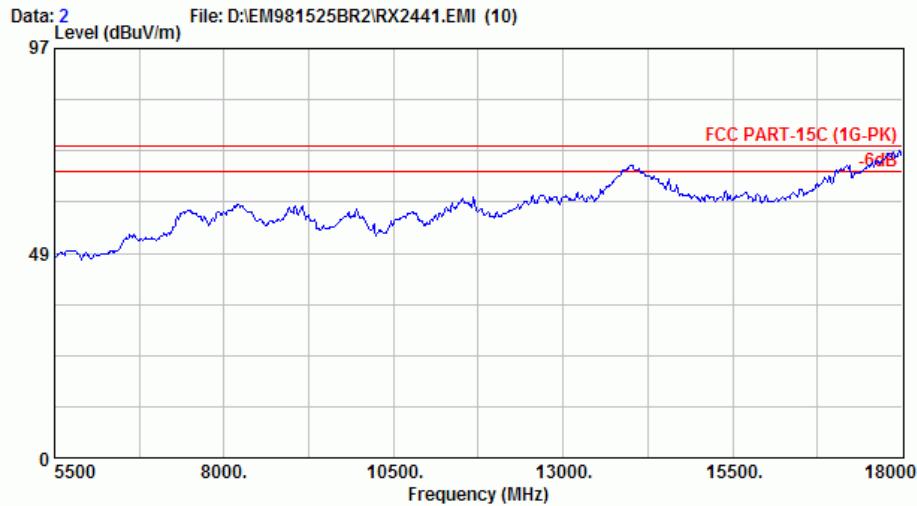
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 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : RX2441MHz



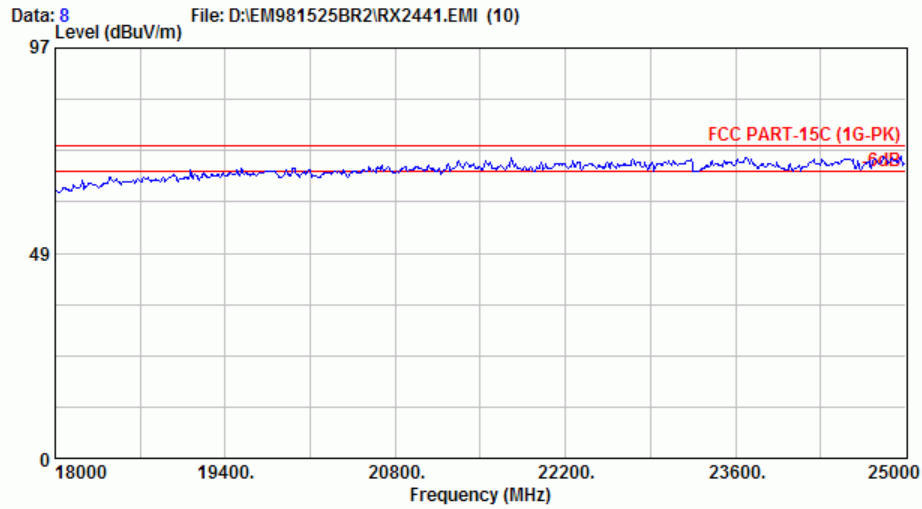
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 Email:ttemc@ttemc.com.tw



Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 28°C/58% Engineer : Jarwei Wang
 EUT : Bluetooth Embedded Module
 Power Rating : 120Vac/60Hz M/N:BCM92046MD_EMB
 Test Mode : RX2441MHz



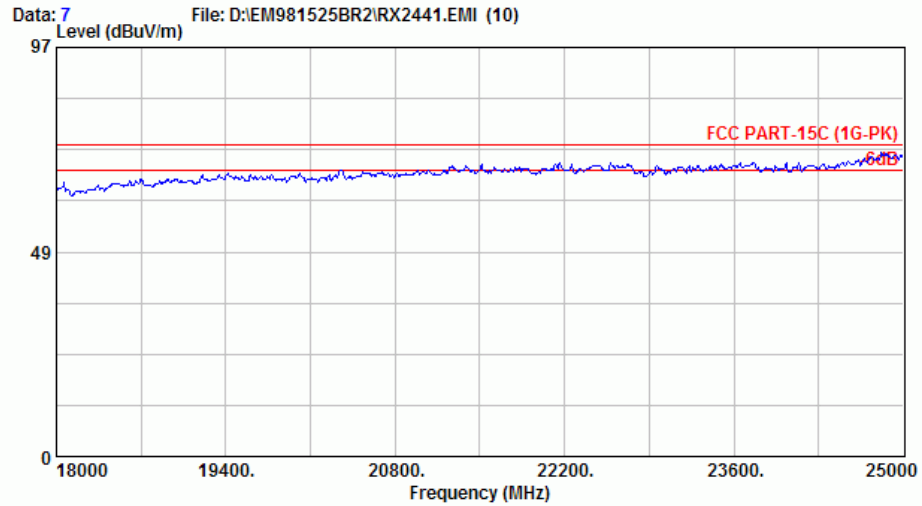
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 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



Site no.	: site	Data no.	: 8
Dis. / Ant.	: 3m 3116	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 28°C/58%	Engineer	: Jarwei Wang
EUT	: Bluetooth Embedded Module		
Power Rating	: 120Vac/60Hz M/N:BCM92046MD_EMB		
Test Mode	: RX2441MHz		



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 Email:ttemc@ttemc.com.tw



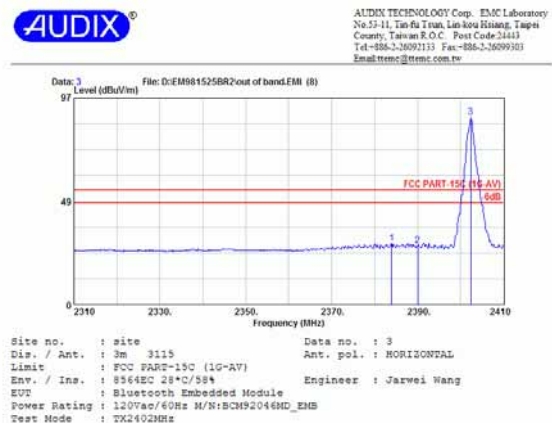
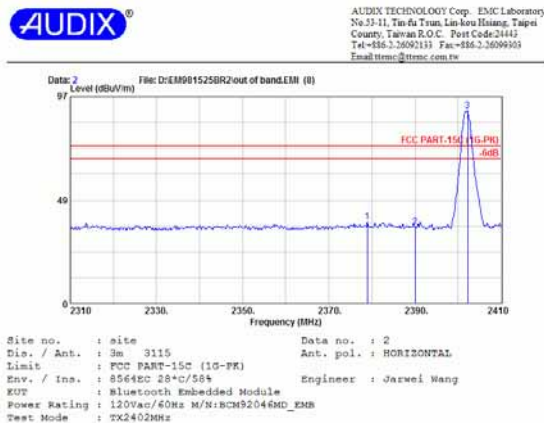
Site no.	: site	Data no.	: 7
Dis. / Ant.	: 3m 3116	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 28°C/58%	Engineer	: Jarwei Wang
EUT	: Bluetooth Embedded Module		
Power Rating	: 120Vac/60Hz M/N:BCM92046MD_EMB		
Test Mode	: RX2441MHz		

4.6.3. Restricted Bands Measurement Results

Date of Test :	Aug. 28, 2009	Temperature :	28
EUT :	Bluetooth Embedded Module (With Host LCD TV: VIZIO SV472XVT)	Humidity :	58%
Test Mode :	Transmitting Mode, Frequency: 2402MHz (CH0) Type of Modulation: GFSK	Test Voltage :	DC 5V

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Fundamental	2402.200	28.62	6.36	55.13	90.11		
Peak *	2378.900	28.58	6.32	3.30	38.20	74.00	35.80
Fundamental	2402.400	28.62	6.36	53.15	88.13		
Average *	2385.900	28.59	6.33	-6.04	28.88	54.00	25.12

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2410MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



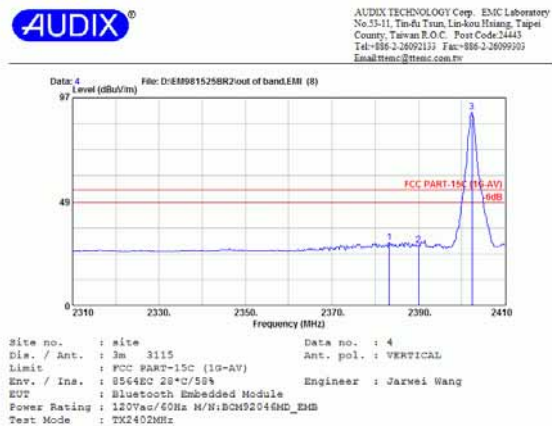
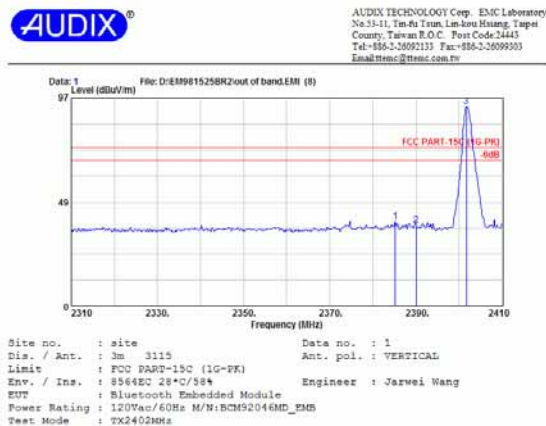
Date of Test : Aug. 28, 2009 Temperature : 28

EUT : Bluetooth Embedded Module Humidity : 58%
(With Host LCD TV: VIZIO SV472XVT)

Test Mode : Transmitting Mode, Frequency: Test Voltage : DC 5V
2402MHz (CH0)
Type of Modulation: GFSK

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Fundamental	2401.700	28.62	6.35	58.19	93.16		
Peak *	2385.200	28.59	6.33	4.67	39.59	74.00	34.41
Fundamental	2402.400	28.62	6.36	55.41	90.39		
Average *	2383.200	28.58	6.33	-5.41	29.50	54.00	24.50

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2410MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



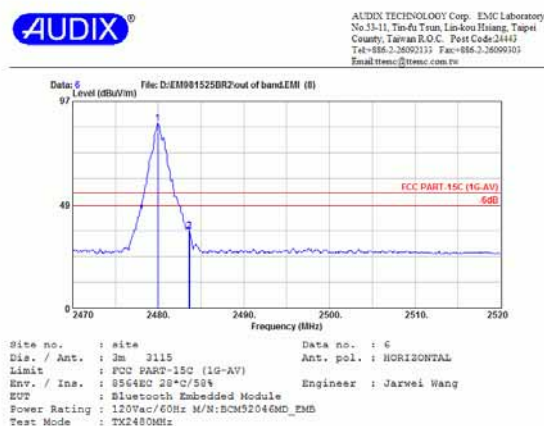
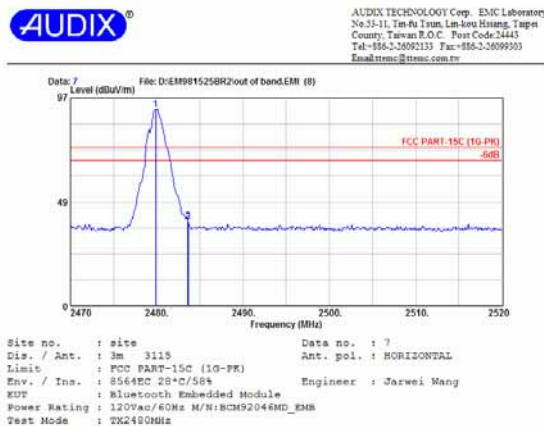
Date of Test : Aug. 28, 2009 Temperature : 28

EUT : Bluetooth Embedded Module Humidity : 58%
(With Host LCD TV: VIZIO SV472XVT)

Test Mode : Transmitting Mode, Frequency: Test Voltage : DC 5V
2480MHz (CH78)
Type of Modulation: GFSK

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Fundamental	2479.850	28.76	6.44	56.64	91.84		
Peak *	2483.600	28.77	6.45	4.19	39.41	74.00	34.59
Fundamental	2479.950	28.76	6.44	51.54	86.74		
Average *	2483.600	28.77	6.45	1.17	36.39	54.00	17.61

- 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.



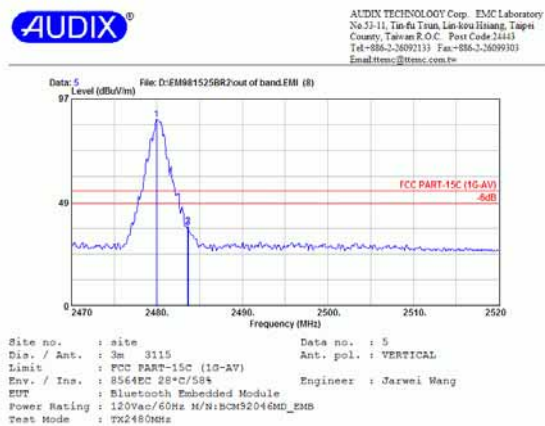
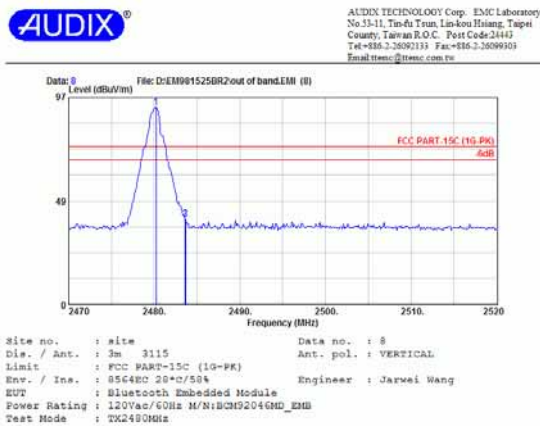
Date of Test : Aug. 28, 2009 Temperature : 28

EUT : Bluetooth Embedded Module Humidity : 58%
(With Host LCD TV: VIZIO SV472XVT)

Test Mode : Transmitting Mode, Frequency: Test Voltage : DC 5V
2480MHz (CH78)
Type of Modulation: GFSK

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Fundamental	2480.200	28.76	6.44	57.06	92.26		
Peak *	2483.600	28.77	6.45	5.01	40.23	74.00	33.77
Fundamental	2479.950	28.76	6.44	52.32	87.52		
Average *	2483.600	28.77	6.45	2.04	37.26	54.00	16.74

- 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.



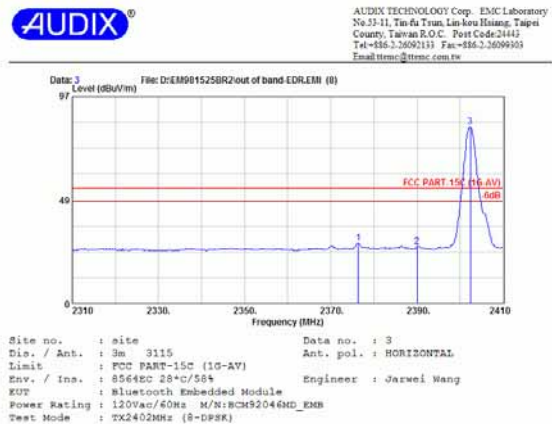
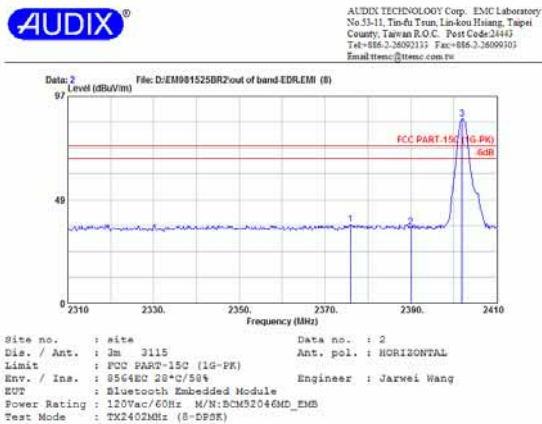
Date of Test : Aug. 28, 2009 Temperature : 28

EUT : Bluetooth Embedded Module Humidity : 58%
(With Host LCD TV: VIZIO SV472XVT)

Test Mode : Transmitting Mode, Frequency: Test Voltage : DC 5V
2402MHz (CH0)
Type of Modulation: 8-DPSK

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Fundamental	2401.900	28.62	6.36	51.42	86.40		
Peak *	2375.900	28.57	6.32	2.18	37.07	74.00	36.93
Fundamental	2402.400	28.62	6.36	47.76	82.74		
Average *	2376.400	28.57	6.32	-6.45	28.44	54.00	25.56

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2410MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



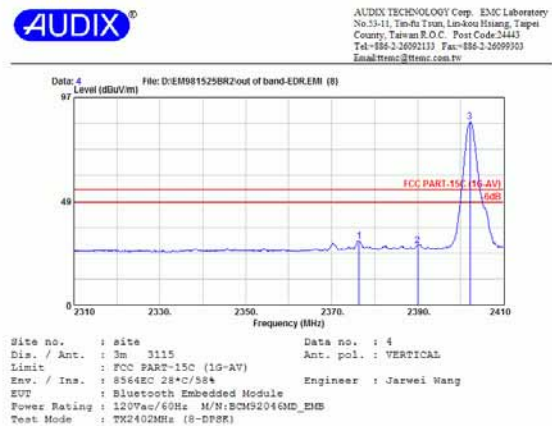
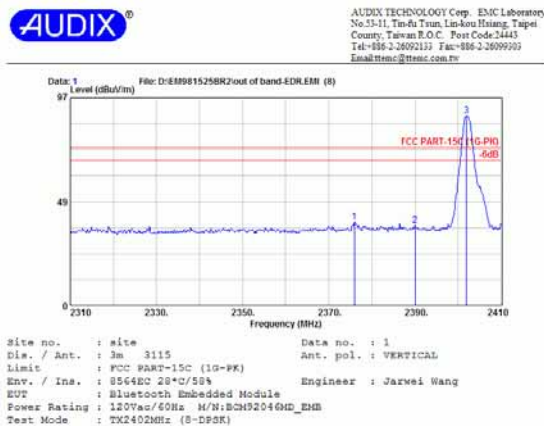
Date of Test : Aug. 28, 2009 Temperature : 28

EUT : Bluetooth Embedded Module Humidity : 58%
(With Host LCD TV: VIZIO SV472XVT)

Test Mode : Transmitting Mode, Frequency: Test Voltage : DC 5V
2402MHz (CH0)
Type of Modulation: 8-DPSK

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Fundamental	2401.900	28.62	6.36	53.52	88.50		
Peak *	2375.900	28.57	6.32	4.10	38.99	74.00	35.01
Fundamental	2402.200	28.62	6.36	50.77	85.75		
Average *	2376.400	28.57	6.32	-4.94	29.95	54.00	24.05

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2410MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



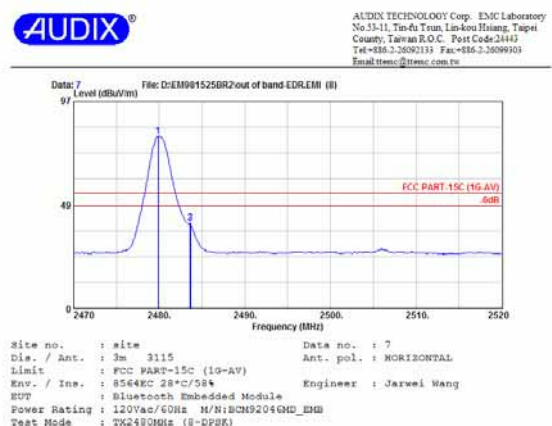
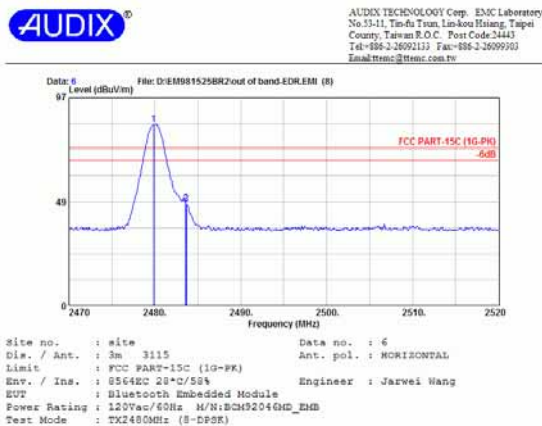
Date of Test : Aug. 28, 2009 Temperature : 28

EUT : Bluetooth Embedded Module Humidity : 58%
(With Host LCD TV: VIZIO SV472XVT)

Test Mode : Transmitting Mode, Frequency: Test Voltage : DC 5V
2480MHz (CH78)
Type of Modulation: 8-DPSK

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Horizontal dB μ V/m	Emission Level Horizontal dB μ V/m	Limits dB	Margin
Fundamental	2479.850	28.76	6.44	49.35	84.55		
Peak *	2483.600	28.77	6.45	12.54	47.76	74.00	26.24
Fundamental	2479.850	28.76	6.44	45.40	80.60		
Average *	2483.600	28.77	6.45	4.87	40.09	54.00	13.91

- 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.



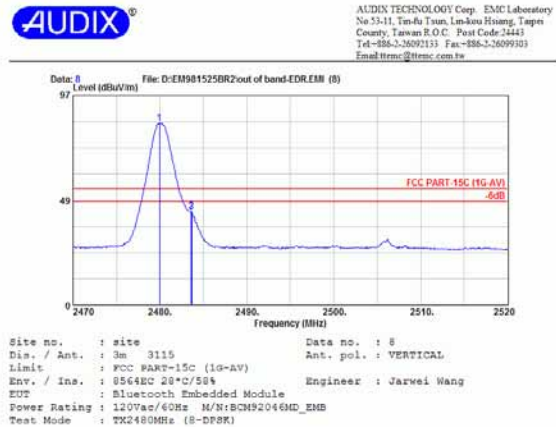
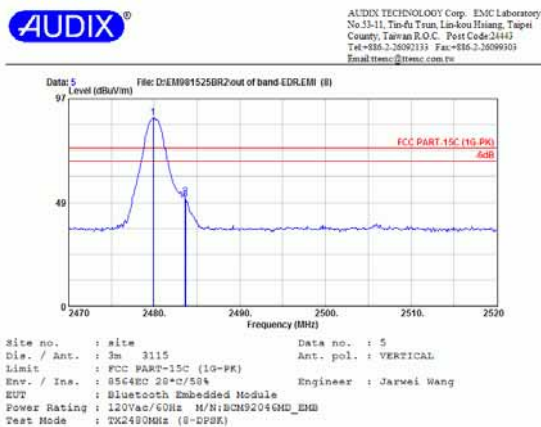
Date of Test : Aug. 28, 2009 Temperature : 28

EUT : Bluetooth Embedded Module Humidity : 58%
(With Host LCD TV: VIZIO SV472XVT)

Test Mode : Transmitting Mode, Frequency: Test Voltage : DC 5V
2480MHz (CH78)
Type of Modulation: 8-DPSK

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB μ V	Meter Reading Vertical dB μ V/m	Emission Level Vertical dB μ V/m	Limits dB	Margin
Fundamental	2479.850	28.76	6.44	52.75	87.95		
Peak *	2483.600	28.77	6.45	15.83	51.05	74.00	22.95
Fundamental	2479.950	28.76	6.44	49.16	84.36		
Average *	2483.600	28.77	6.45	8.21	43.43	54.00	10.57

- 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.



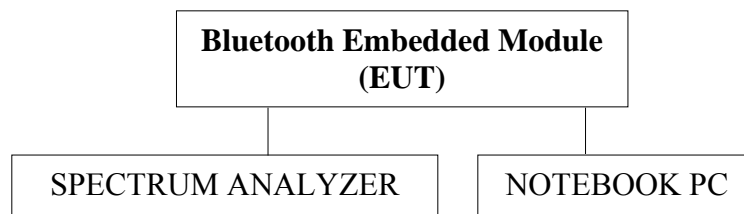
5. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

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.	Spectrum Analyzer	Agilent	N9020A	MY48011382	Sep. 22, 08'	Sep. 21, 09'

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 : Aug. 03, 2009 Temperature : 26 Humidity : 53 %

5.6.1.Type of Modulation: GFSK

No.	Channel	Test Frequency	Peak Output Power	Limit
1.	0	2402MHz	1.278dBm	21dBm
2.	39	2441MHz	1.201dBm	21dBm
3.	78	2480MHz	0.828dBm	21dBm

5.6.2.Type of Modulation: 8-DPSK

No.	Channel	Test Frequency	Peak Output Power	Limit
1.	0	2402MHz	-1.451dBm	21dBm
2.	39	2441MHz	-2.359dBm	21dBm
3.	78	2480MHz	-4.973dBm	21dBm

Figure 1: GFSK, Channel 0, Frequency: 2402MHz

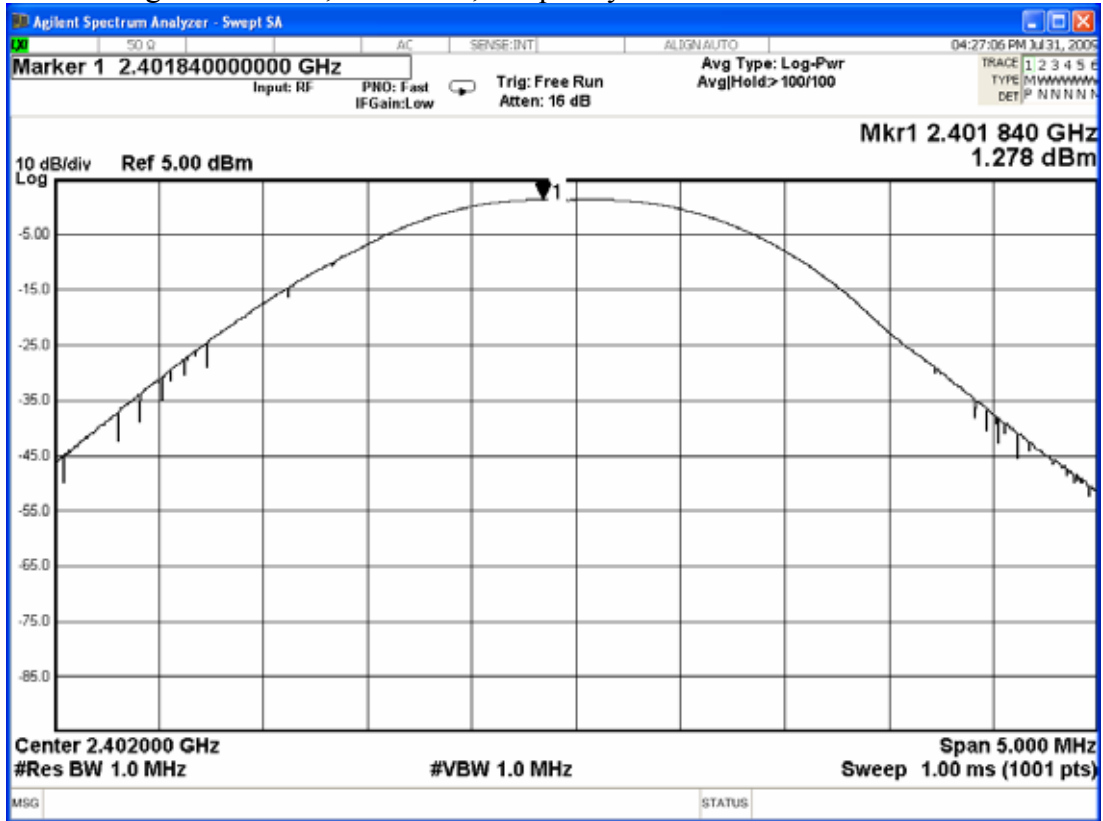


Figure 2: GFSK, Channel 39, Frequency: 2441MHz

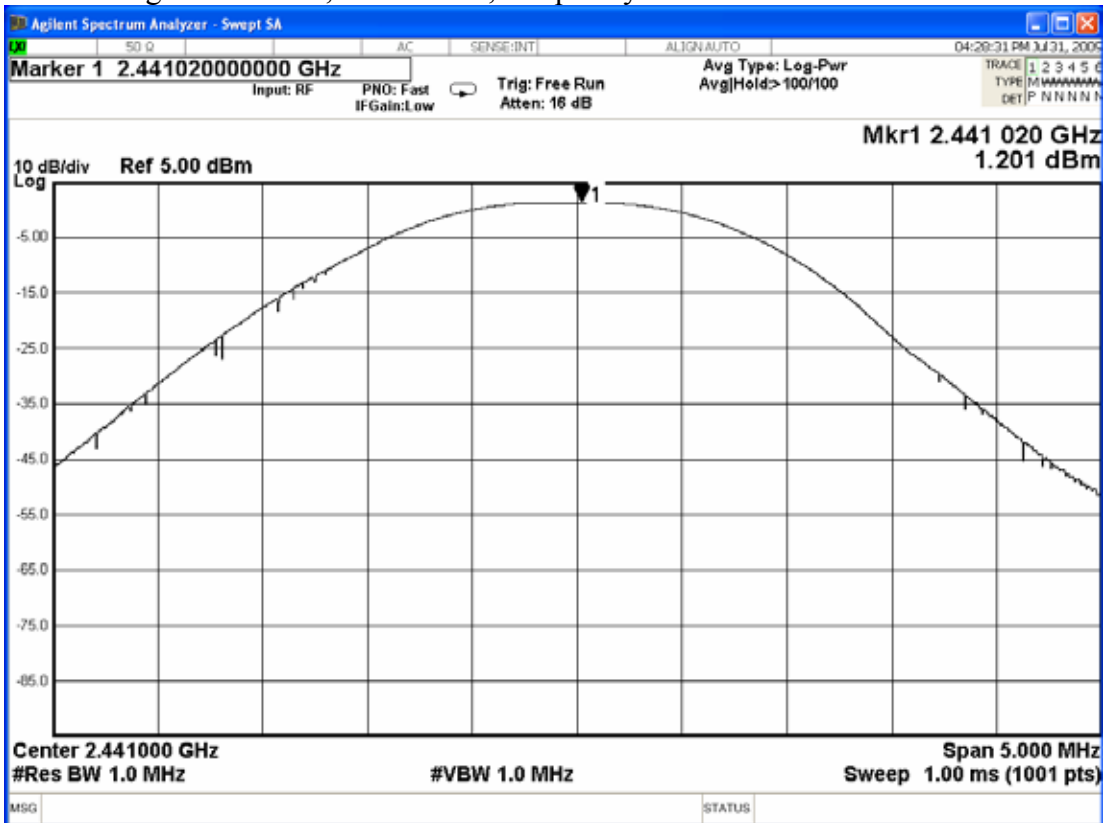


Figure 3: GFSK, Channel 78, Frequency: 2480MHz

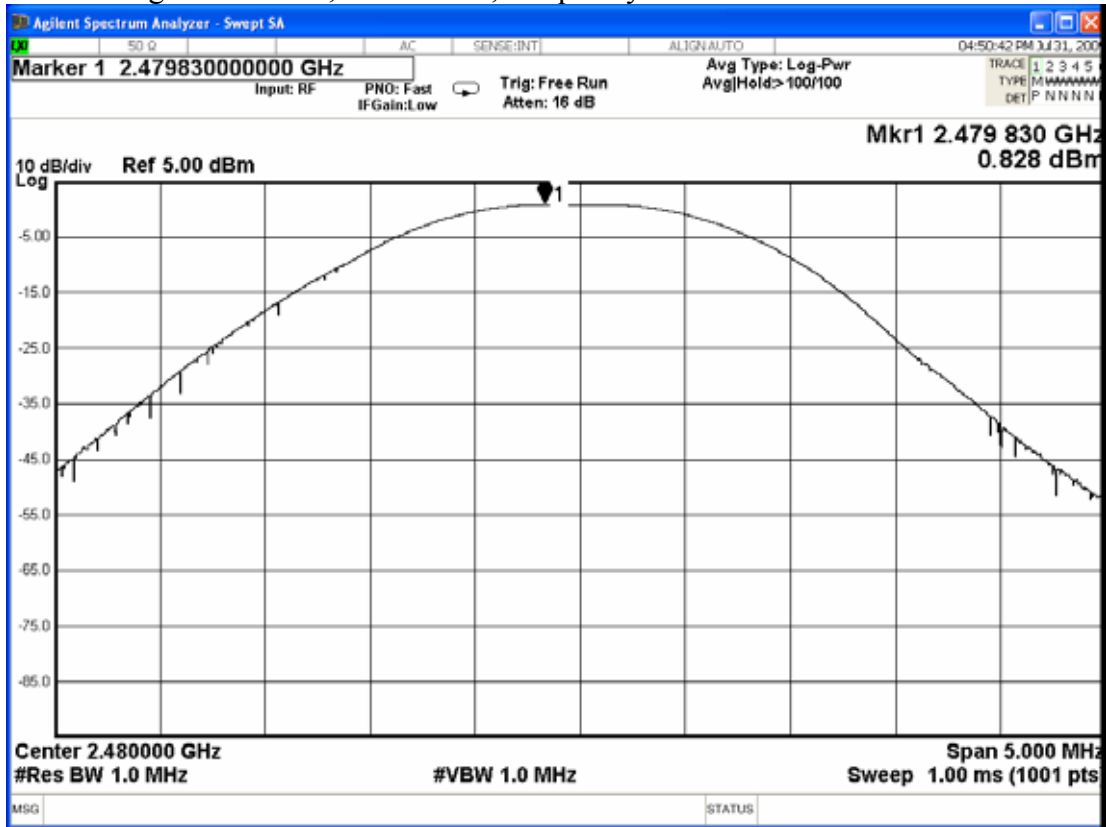


Figure 4: 8-DPSK, Channel 0, Frequency: 2402MHz

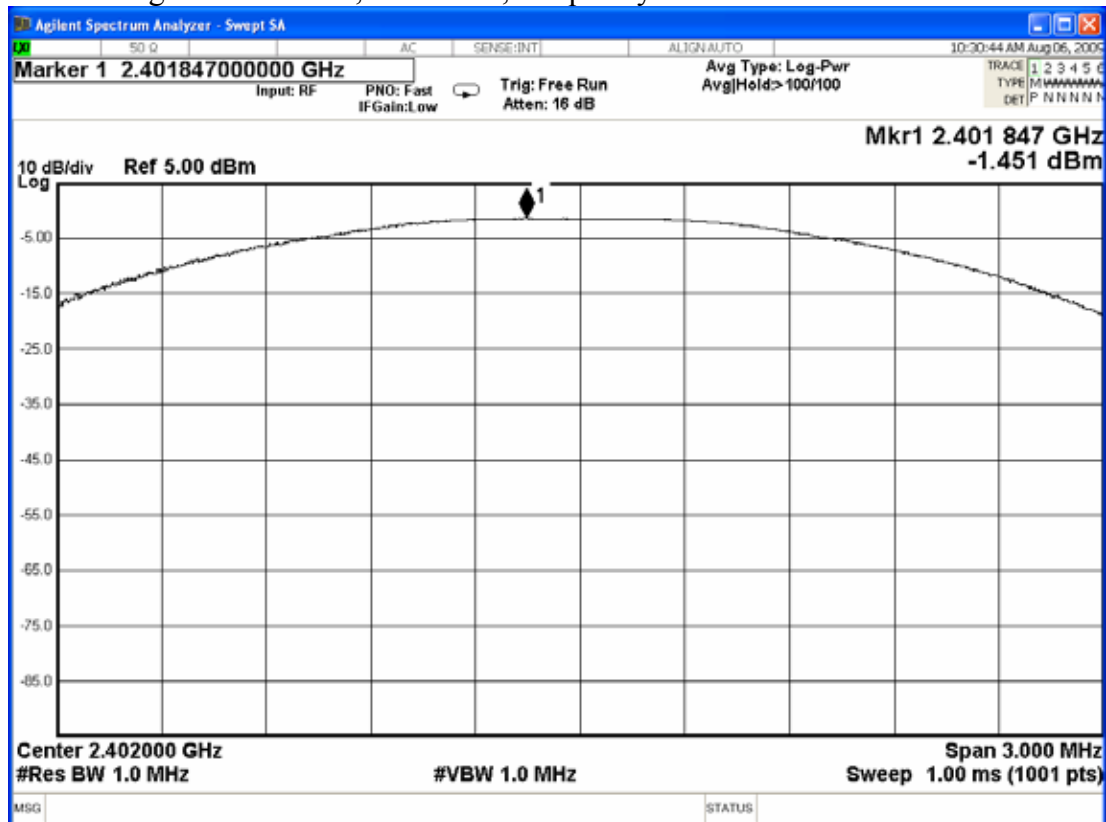


Figure 5: 8-DPSK, Channel 39, Frequency: 2441MHz

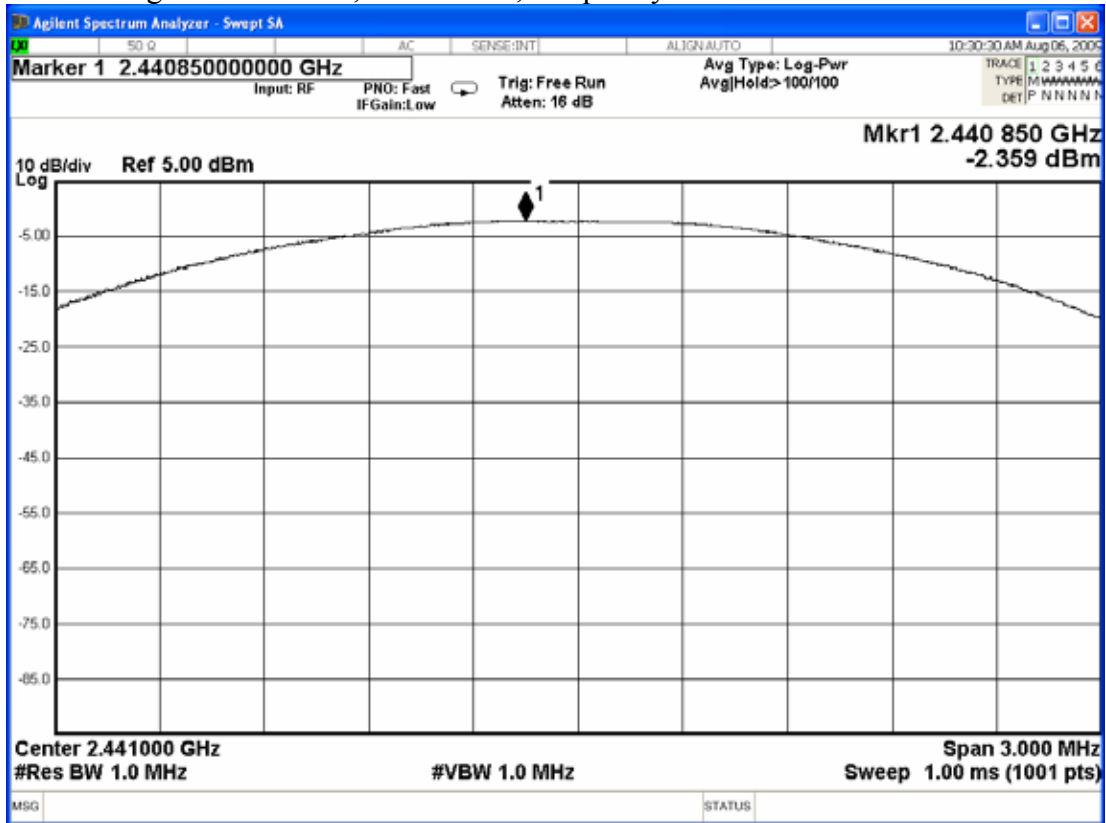
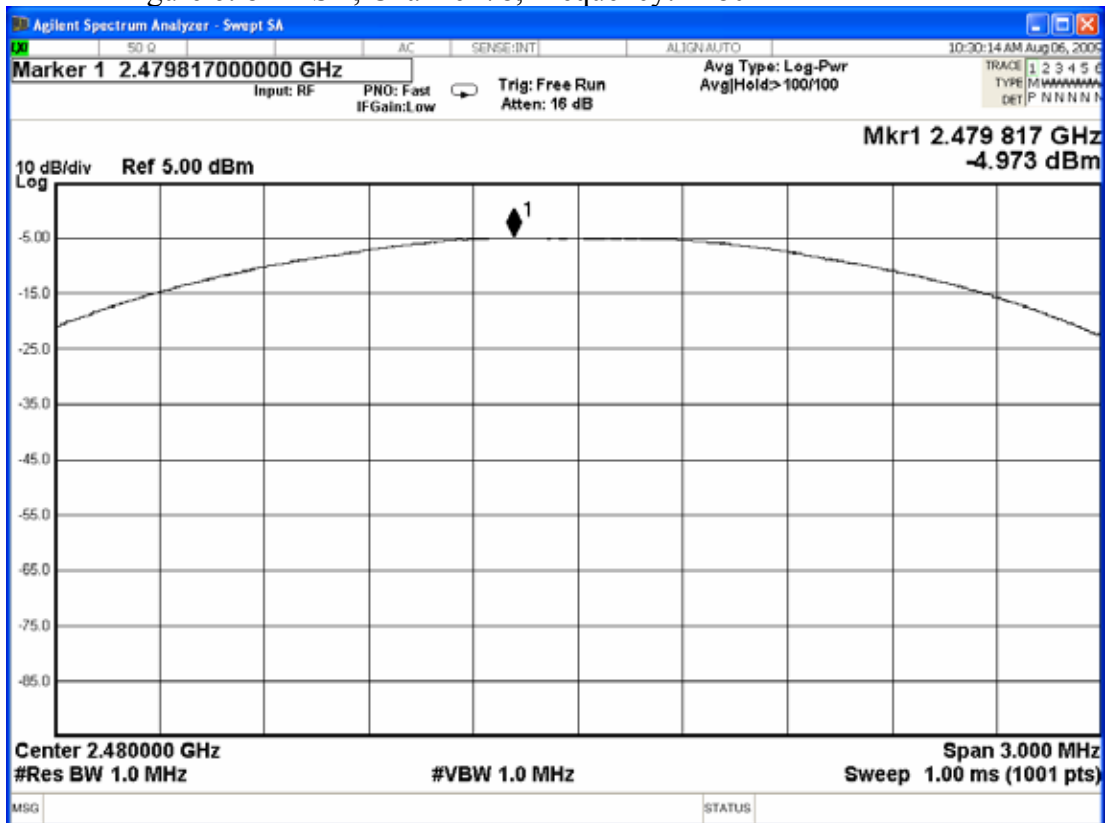


Figure 6: 8-DPSK, Channel 78, Frequency: 2480MHz



6. DEVIATION TO TEST SPECIFICATIONS

【NONE】