

APPLICATION FOR CERTIFICATION

On Behalf of
Yamaha Corporation
Desktop Audio System

Model No. : TSX-B15
FCC ID : A6RTSXB15A

Prepared for

Yamaha Corporation
10-1 Nakazawa-cho, naka-ku, Hamamatsu-shi, Shizuoka-ken, 430-8650 Japan

Prepared by

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Report Number : ACWE-F1406008
Date of Test : May 26~28, 2014
Date of Report : Jun.30, 2014

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TEST REPORT CERTIFICATION

Applicant : Yamaha Corporation
 Manufacturer : Yamaha Corporation
 EUT Description : Desktop Audio System
 (A) Model No. : TSX-B15
 (B) Brand : YAMAHA
 (C) Power Supply : DC 12V, 1.5A
 (D) Test Voltage : AC 120V, 60Hz (Via adapter)

Applicable Standards:

FCC RULES AND REGULATIONS PART 15 SUBPART C, Oct. 2012
ANSI C63.4-2003
FCC Public Notice DA 00-705, Mar.2000

The device described above was tested by Audix Technology (Wujiang) Co., Ltd. EMC Dept. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C section 15.207, 15.205, 15.209&15.247 limits.

The measurement results are contained in this test report and Audix Technology (Wujiang) Co., Ltd. EMC Dept. 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 limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Date of Test: May 26~28, 2014

Date of Report: Jun.30, 2014

Prepared by

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Reviewer

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Approved & Authorized Signer

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1. SUMMARY OF MEASUREMENTS AND RESULTS

The EUT has been tested according to the applicable standards and test results are referred as below.

Description of Test Item	Standard	Results	Remark
CONDUCTED EMISSION	FCC 47 CFR Part 15 Subpart C/ Section 15.207 And ANSI C63.4-2003 And FCC Public Notice DA 00-705, Mar.2000	PASS	Minimum passing margin is 15.23 dB at 0.56MHz
RADIATED EMISSION	FCC 47 CFR Part 15 Subpart C/ Section 15.209& Section 15.205 And ANSI C63.4-2003 And FCC Public Notice DA 00-705, Mar.2000	PASS	Minimum passing margin is 5.02 dB at 31.94MHz
20 dB BANDWIDTH	FCC 47 CFR Part 15 Subpart C/ Section 15.247(a)(1) And ANSI C63.4-2003 And FCC Public Notice DA 00-705, Mar.2000	PASS	---
CARRIER FREQUENCY SEPARATION MEASUREMENT	FCC 47 CFR Part 15 Subpart C/ Section 15.247(a)(1) And ANSI C63.4-2003 And FCC Public Notice DA 00-705, Mar.2000	PASS	---
DWELL TIME MEASUREMENT	FCC 47 CFR Part 15 Subpart C/ Section 15.247(a)(1)(iii) And ANSI C63.4-2003 And FCC Public Notice DA 00-705, Mar.2000	PASS	Minimum passing margin is 67.252ms at DH5 CH 39
NUMBER OF HOPPING CHANNELS MEASUREMENT	FCC 47 CFR Part 15 Subpart C/ Section 15.247(a)(1)(iii) And ANSI C63.4-2003 And FCC Public Notice DA 00-705, Mar.2000	PASS	---
MAXIMUM PEAK OUTPUT POWER	FCC 47 CFR Part 15 Subpart C/ Section 15.247(b)-(1) And ANSI C63.4-2003 And FCC Public Notice DA 00-705, Mar.2000	PASS	Minimum passing margin is 19.46dB at DH1 CH 39
BAND EDGES	FCC 47 CFR Part 15 Subpart C/ Section 15.247(c) And ANSI C63.4-2003 And FCC Public Notice DA 00-705, Mar.2000	PASS	---
EMISSION LIMITATIONS	FCC 47 CFR Part 15 Subpart C/ Section 15.247(c) And ANSI C63.4-2003 And FCC Public Notice DA 00-705, Mar.2000	PASS	---

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	Desktop Audio System
Model No.	:	TSX-B15
FCC ID	:	A6RTSXB15A
Brand	:	YAMAHA
Applicant	:	Yamaha Corporation 10-1 Nakazawa-cho, naka-ku, Hamamatsu-shi, Shizuoka-ken, 430-8650 Japan
Manufacturer	:	Yamaha Corporation 10-1 Nakazawa-cho, naka-ku, Hamamatsu-shi, Shizuoka-ken, 430-8650 Japan
Radio Technology	:	Bluetooth 3.0
Antenna Gain	:	2.54dBi
Fundamental Range	:	2402 MHz -2480MHz
Tested Frequency	:	2402MHz (CH0) 2441MHz (CH39) 2480MHz (CH78)
Working Frequency	:	2.4 GHz
Modulation type	:	FHSS(GFSK, $\pi/4$ DQPSK, 8-DPSK)
FM Antenna Cable	:	Unshielded, Detectable, 1.4m
Adapter	:	Model No.: MU18-D120150-A1 Brand: YAMAHA Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 12V, 1.5A DC Cord: Unshielded, Undetectable, 1.6m
Date of Receipt of Sample	:	May 26, 2014
Date of Test	:	May 26~28, 2014

2.2. Tested Supporting System Details

2.2.1. Notebook PC

Manufacturer : DELL
 Model Number : PP26L
 Serial Number : JX193A01
 Power Cord : Unshielded, Detachable, 1.5 m
 AC Adapter : M/N: LA65NS1-00
 Brand: DELL
 Input: AC 100-240V, 50-60Hz, 1.5A
 Output: DC 19.5V, 3.34A
 DC Cord: Unshielded, Undetachable, 2.0m, 1 ferrite core.

2.2.2. MP3

Manufacturer : Apple
 Model Number : A1204
 Serial Number : 4H7218SZXQS
 Audio Cable : Unshielded, Undetectable, 1.0 m

2.2.3. Load: 5Ω

2.3. Description of Test Facility

Name of Firm : **Audix Technology (Wujiang) Co., Ltd. EMC Dept.**

 Site Location : No. 1289 Jiangxing East Road, the Eastern Part of
 Wujiang Economic Development Zone
 Jiangsu China 215200

 Test Facilities : **No.1 3m Semi-anechoic Chamber**
 Date of Validity: May. 23, 2015
 FCC Registration No.: 897661
 IC Registration No.: 5183D-2

 RF Fully Chamber

 NVLAP Lab Code : 200786-0
 (NVLAP is a NATA accredited body under Mutual
 Recognition Agreement)
 Valid until on Sep.30, 2014

2.4. Measurement Uncertainty

Test Item	Range Frequency	Uncertainty
Radiated Disturbance Measurement (At 3m Chamber)	Below 1GHz	$\pm 3.42\text{dB}$
Radiated Disturbance Measurement (At 3m Chamber)	Above 1GHz	$\pm 4.49\text{dB}$

Remark: Uncertainty = $ku_c(y)$

Test Item	Uncertainty
20 dB Bandwidth	$\pm 3.1 \times 10^{-6} \text{ MHz}$
CARRIER FREQUENCY SEPARATION	$\pm 3.1 \times 10^{-6} \text{ MHz}$
Maximum Peak Output Power	$\pm 0.30\text{dB}$
Band Edges	$\pm 0.302\text{dB}$
Emission Limitations	$\pm 0.24\text{dB}$

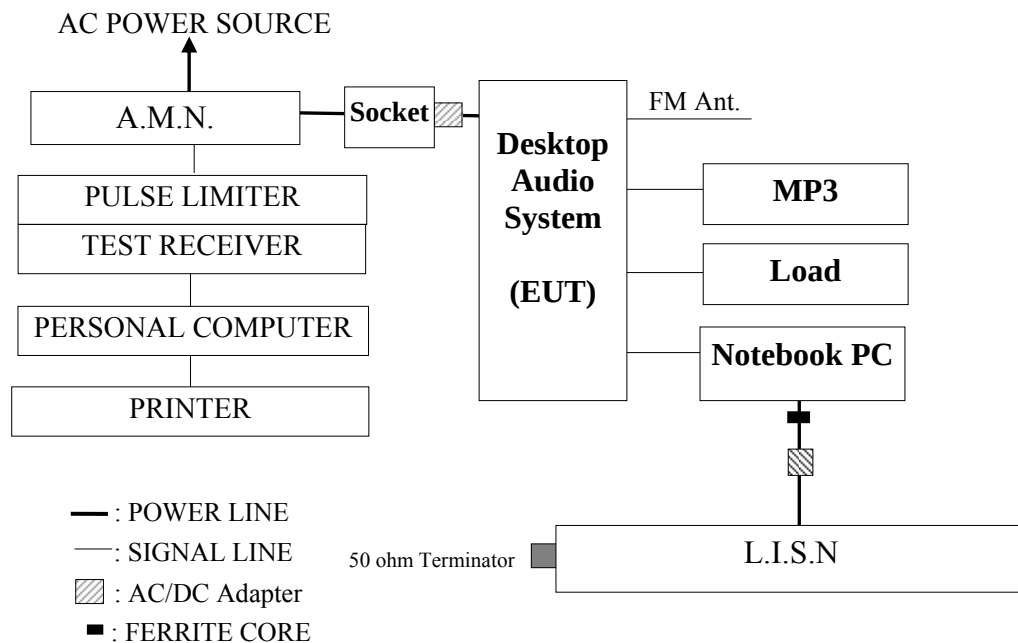
Remark: Uncertainty = $ku_c(y)$

3. CONDUCTED EMISSION MEASUREMENT

3.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCI	100839	2014-01-05	2015-01-04
2.	A.M.N.	R&S	ESH2-Z5	100153	2014-05-15	2015-05-14
3.	L.I.S.N	Kyoritsu	KNW-407	8-1793-3	2013-08-06	2014-08-05
4.	Pulse Limiter	R&S	ESH3-Z2	100605	2013-08-06	2014-08-05
5.	50Ω Terminator	Tektronis	MS4630B	001-con	2014-01-05	2015-01-04
6.	RF Cable	Harbour Industries	RG400	003	2013-03-24	2014-03-23

3.2. Block Diagram of Test Setup



3.3. Power line Conducted Emission Limit

(FCC Part 15, Section 15.207, Class B)

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

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

2: The lower limit applies at the band edges.

3.4. Test Procedure

The measuring process is according to ANSI C63.4-2003 and laboratory internal procedure TKC-301-004. (For FCC Part15 Subpart C)

In the conducted emission measurement, the EUT and all peripheral devices were set up on a non-metallic table which was 0.8 meters height above the ground plane, and 0.4 meters far away from the vertical plane. The EUT (installed in PC system) was powered by AC mains through Artificial Mains Network (A.M.N), other peripheral devices were powered by AC mains through the second Line Impedance Stabilization Network (L.I.S.N). For the measurement, the A.M.N measuring port was terminated by a 50Ω measuring equipment and the second L.I.S.N measuring port was terminated by a 50Ω resistive load. All measurements were done on the phase and neutral line of the EUT's power cord. All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver was set at 9 kHz.

The required frequency band (0.15 MHz ~ 30 MHz) was pre-scanned with peak detector, the final measurement was measured with quasi-peak detector and average detector. (If the average limit is met when using a quasi-peak detector, the average detector is necessary).

The emission level is calculated automatically by the test system which uses the following equation:

Emission level (dBμV) = Meter-Reading (dBμV) + A.M.N factor (dB) + Cable loss (dB).

(Cable loss include pulse limiter loss)

3.5. Conducted Emission Measurement Results

For FCC Part15 Subpart C

PASSED.

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

EUT was performed during this section testing and all the test results are attached in next pages.

Test Date : May 28, 2014

Temperature : 24.3°C

Humidity : 62%

Mode	Test Condition	Reference Test Data No.	
		Neutral	Line
1	Transmitting (DH1)	# 1	※# 2
2	Transmitting (DH3)	# 3	# 4
3	Transmitting (DH5)	# 5	# 6
4	Transmitting (3DH1)	# 7	# 8
5	Transmitting (3DH3)	# 9	# 10
6	Transmitting (3DH5)	# 11	# 12

NOTE 1- '※' means the worst test mode.

NOTE 2- The worst emission is detected at 0.56 MHz with emission level of 30.77 dB (μV) and with AV detector (Limit is 46 dB (μV)), when the Line of the EUT is connected to AMN.

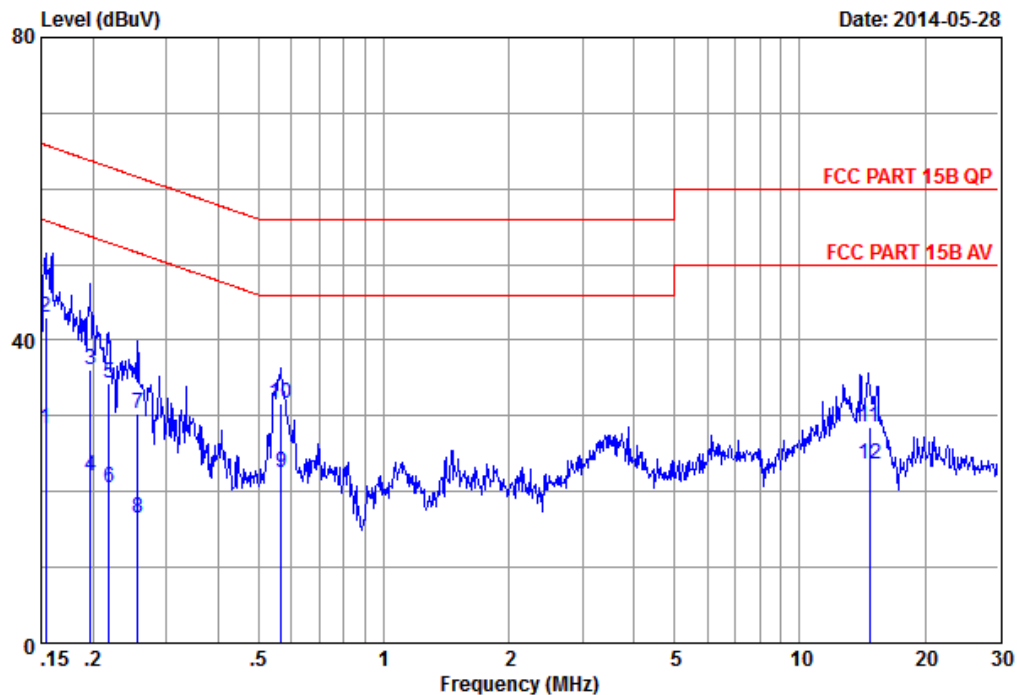


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Data: 1

File: F:\2014Test Data\Report\06\G1406003.EM6 (12)

Date: 2014-05-28



Site no. : No.1 Conducted shielding Enclosure Data no. : 1
 AMN/LISN : ESH2-Z5-1405 Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Env. / Ins. : 24.3°C&62%/ESCI Engineer : KM.Tong
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test mode : Transmitting
 Memo : DH1

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.13	9.86	18.31	28.30	55.78	27.48	Average
2	0.15	0.13	9.86	33.11	43.10	65.78	22.68	QP
3	0.20	0.13	9.87	26.10	36.10	63.74	27.64	QP
4	0.20	0.13	9.87	12.10	22.10	53.74	31.64	Average
5	0.22	0.13	9.87	24.40	34.40	62.89	28.49	QP
6	0.22	0.13	9.87	10.60	20.60	52.89	32.29	Average
7	0.26	0.14	9.86	20.30	30.30	61.56	31.26	QP
8	0.26	0.14	9.86	6.50	16.50	51.56	35.06	Average
9	0.57	0.15	9.87	12.51	22.53	46.00	23.47	Average
10	0.57	0.15	9.87	21.61	31.63	56.00	24.37	QP
11	14.69	0.53	10.06	18.00	28.59	60.00	31.41	QP
12	14.69	0.53	10.06	13.10	23.69	50.00	26.31	Average

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

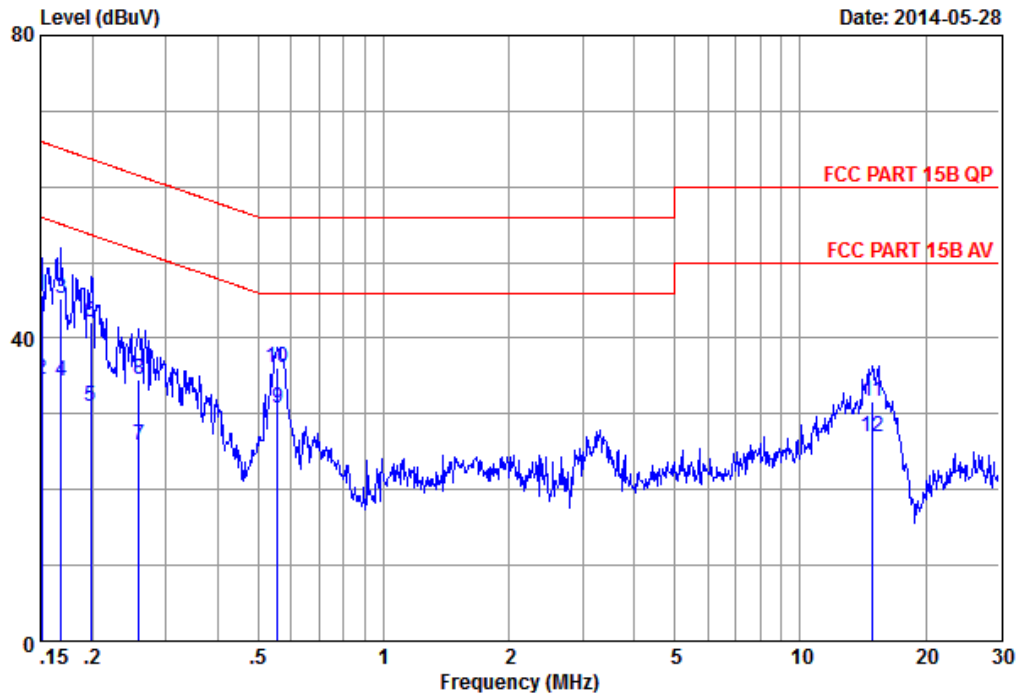


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Data: 2

File: F:\2014Test Data\Report\06\G1406003.EM6 (12)

Date: 2014-05-28



Site no. : No.1 Conducted shielding Enclosure Data no. : 2
 AMN/LISN : ESH2-Z5-1405 Phase : LINE
 Limit : FCC PART 15B QP
 Env. / Ins. : 24.3°C&62%/ESCI Engineer : KM.Tong
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test mode : Transmitting
 Memo : DH1

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.19	9.86	35.70	45.75	65.94	20.19	QP
2	0.15	0.19	9.86	24.60	34.65	55.94	21.29	Average
3	0.17	0.18	9.87	35.20	45.25	65.06	19.81	QP
4	0.17	0.18	9.87	24.20	34.25	55.06	20.81	Average
5	0.20	0.18	9.87	21.00	31.05	53.69	22.64	Average
6	0.20	0.18	9.87	32.00	42.05	63.69	21.64	QP
7	0.26	0.19	9.86	15.70	25.75	51.50	25.75	Average
8	0.26	0.19	9.86	24.60	34.65	61.50	26.85	QP
9	0.56	0.20	9.87	20.70	30.77	46.00	15.23	Average
10	0.56	0.20	9.87	26.00	36.07	56.00	19.93	QP
11	14.91	0.45	10.06	21.20	31.71	60.00	28.29	QP
12	14.91	0.45	10.06	16.50	27.01	50.00	22.99	Average

1. Emission Level = AMN Factor + Cable Loss + Reading.

2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

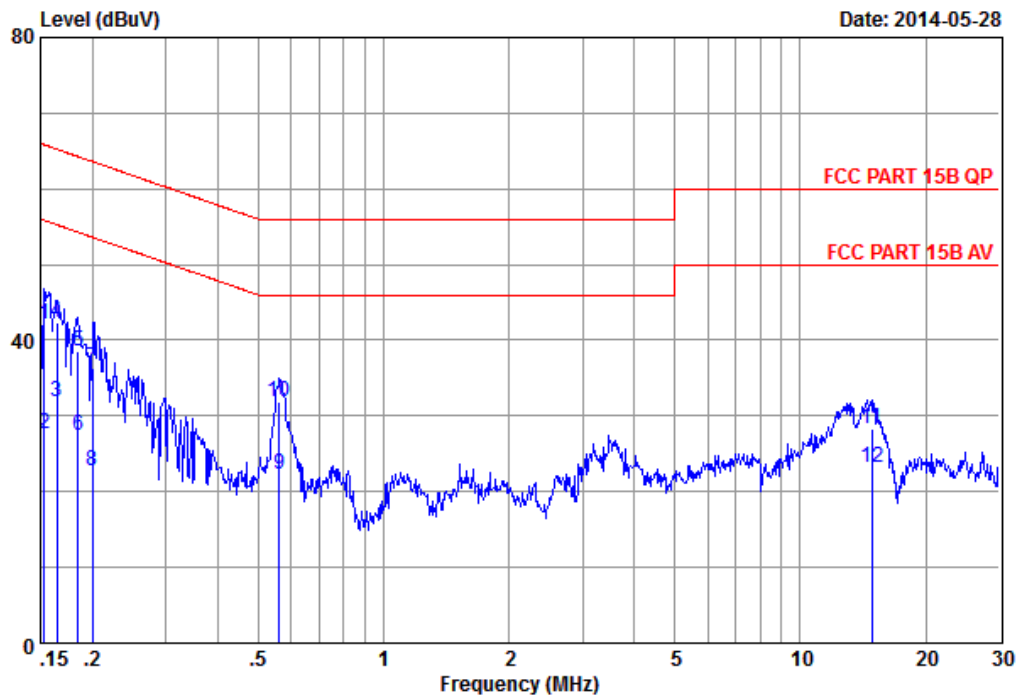


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Data: 3

File: F:\2014Test Data\Report\06\G1406003.EM6 (12)

Date: 2014-05-28



Site no. : No.1 Conducted shielding Enclosure Data no. : 3
 AMN/LISN : ESH2-Z5-1405 Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Env. / Ins. : 24.3°C&62%/ESCI Engineer : KM.Tong
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test mode : Transmitting
 Memo : DH3

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.13	9.86	32.11	42.10	65.84	23.74	QP
2	0.15	0.13	9.86	17.61	27.60	55.84	28.24	Average
3	0.16	0.13	9.86	21.81	31.80	55.23	23.43	Average
4	0.16	0.13	9.86	32.31	42.30	65.23	22.93	QP
5	0.18	0.13	9.87	28.60	38.60	64.28	25.68	QP
6	0.18	0.13	9.87	17.50	27.50	54.28	26.78	Average
7	0.20	0.13	9.87	26.40	36.40	63.61	27.21	QP
8	0.20	0.13	9.87	12.70	22.70	53.61	30.91	Average
9	0.56	0.15	9.87	12.30	22.32	46.00	23.68	Average
10	0.56	0.15	9.87	21.80	31.82	56.00	24.18	QP
11	14.83	0.53	10.06	17.60	28.19	60.00	31.81	QP
12	14.83	0.53	10.06	12.60	23.19	50.00	26.81	Average

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

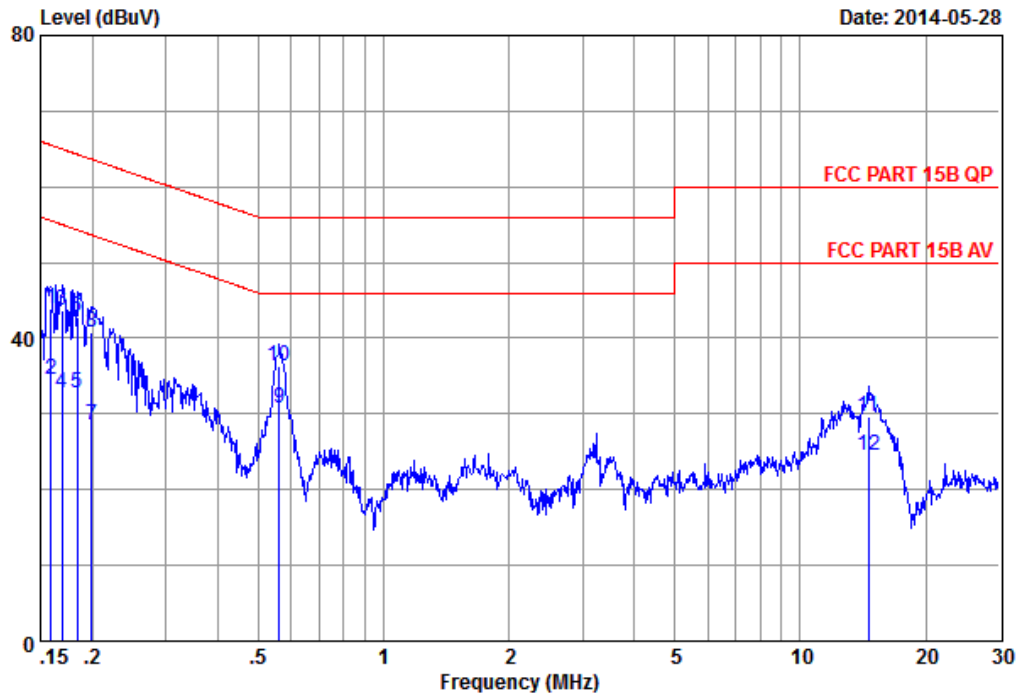


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Data: 4

File: F:\2014Test Data\Report\06\G1406003.EM6 (12)

Date: 2014-05-28



Site no.	: No.1 Conducted shielding Enclosure	Data no.	: 4
AMN/LISN	: ESH2-Z5-1405	Phase	: LINE
Limit	: FCC PART 15B QP		
Env. / Ins.	: 24.3*C&62%/ESCI	Engineer	: KM.Tong
EUT	: Desktop Audio System		
M/N	: TSX-B15		
Power Rating	: 120Vac/60Hz		
Test mode	: Transmitting		
Memo	: DH3		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	0.19	9.86	33.90	43.95	65.51	21.56	QP
2	0.16	0.19	9.86	24.40	34.45	55.51	21.06	Average
3	0.17	0.18	9.87	33.70	43.75	65.01	21.26	QP
4	0.17	0.18	9.87	22.70	32.75	55.01	22.26	Average
5	0.18	0.18	9.87	22.70	32.75	54.30	21.55	Average
6	0.18	0.18	9.87	32.70	42.75	64.30	21.55	QP
7	0.20	0.18	9.87	18.40	28.45	53.67	25.22	Average
8	0.20	0.18	9.87	30.80	40.85	63.67	22.82	QP
9	0.56	0.20	9.87	20.70	30.77	46.00	15.23	Average
10	0.56	0.20	9.87	26.30	36.37	56.00	19.63	QP
11	14.59	0.44	10.05	19.20	29.69	60.00	30.31	QP
12	14.59	0.44	10.05	14.00	24.49	50.00	25.51	Average

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

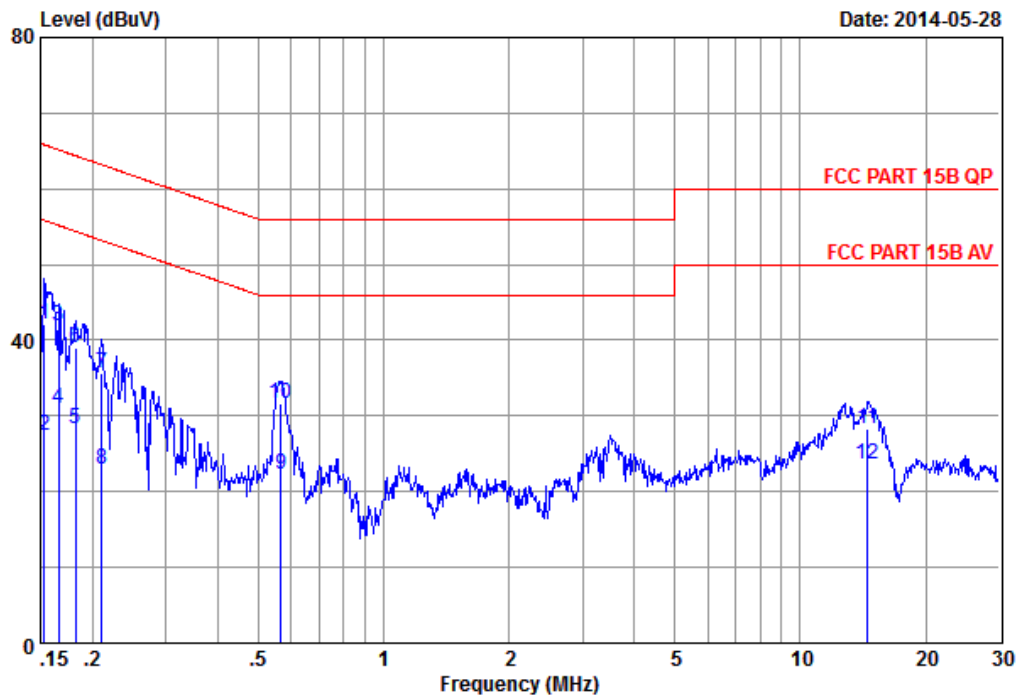


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Data: 5

File: F:\2014Test Data\Report\06\G1406003.EM6 (12)

Date: 2014-05-28



Site no. : No.1 Conducted shielding Enclosure Data no. : 5
 AMN/LISN : ESH2-Z5-1405 Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Env. / Ins. : 24.3°C&62%/ESCI Engineer : KM.Tong
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test mode : Transmitting
 Memo : DHS

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.13	9.86	32.11	42.10	65.83	23.73	QP
2	0.15	0.13	9.86	17.51	27.50	55.83	28.33	Average
3	0.17	0.13	9.86	32.01	42.00	65.17	23.17	QP
4	0.17	0.13	9.86	20.91	30.90	55.17	24.27	Average
5	0.18	0.13	9.87	18.30	28.30	54.37	26.07	Average
6	0.18	0.13	9.87	28.90	38.90	64.37	25.47	QP
7	0.21	0.13	9.87	25.70	35.70	63.20	27.50	QP
8	0.21	0.13	9.87	12.90	22.90	53.20	30.30	Average
9	0.57	0.15	9.87	12.31	22.33	46.00	23.67	Average
10	0.57	0.15	9.87	21.61	31.63	56.00	24.37	QP
11	14.52	0.53	10.05	17.80	28.38	60.00	31.62	QP
12	14.52	0.53	10.05	13.00	23.58	50.00	26.42	Average

1. Emission Level = AMN Factor + Cable Loss + Reading.

2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

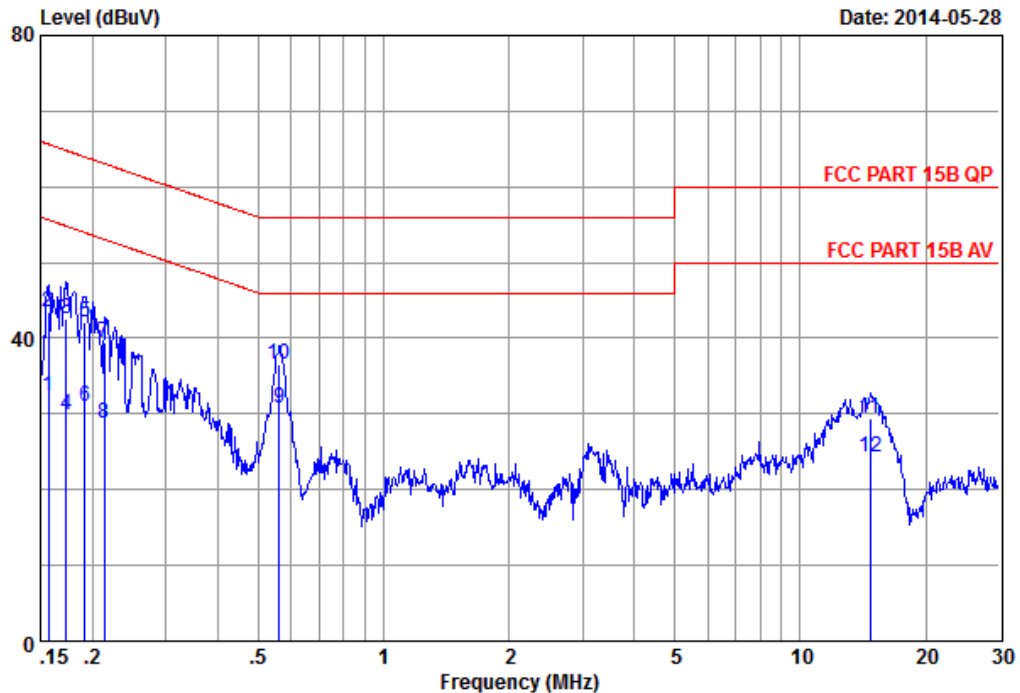


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Data: 6

File: F:\2014Test Data\Report\06\G1406003.EM6 (12)

Date: 2014-05-28



Site no. : No.1 Conducted shielding Enclosure Data no. : 6
 AMN/LISN : ESH2-Z5-1405 Phase : LINE
 Limit : FCC PART 15B QP
 Env. / Ins. : 24.3*C&62%/ESCI Engineer : KM.Tong
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test mode : Transmitting
 Memo : DHS

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	0.19	9.86	22.20	32.25	55.64	23.39	Average
2	0.16	0.19	9.86	33.30	43.35	65.64	22.29	QP
3	0.17	0.18	9.87	32.50	42.55	64.80	22.25	QP
4	0.17	0.18	9.87	19.80	29.85	54.80	24.95	Average
5	0.19	0.18	9.87	32.00	42.05	63.95	21.90	QP
6	0.19	0.18	9.87	21.00	31.05	53.95	22.90	Average
7	0.21	0.18	9.87	29.30	39.35	63.06	23.71	QP
8	0.21	0.18	9.87	18.60	28.65	53.06	24.41	Average
9	0.56	0.20	9.87	20.70	30.77	46.00	15.23	Average
10	0.56	0.20	9.87	26.40	36.47	56.00	19.53	QP
11	14.75	0.44	10.06	19.00	29.50	60.00	30.50	QP
12	14.75	0.44	10.06	13.90	24.40	50.00	25.60	Average

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

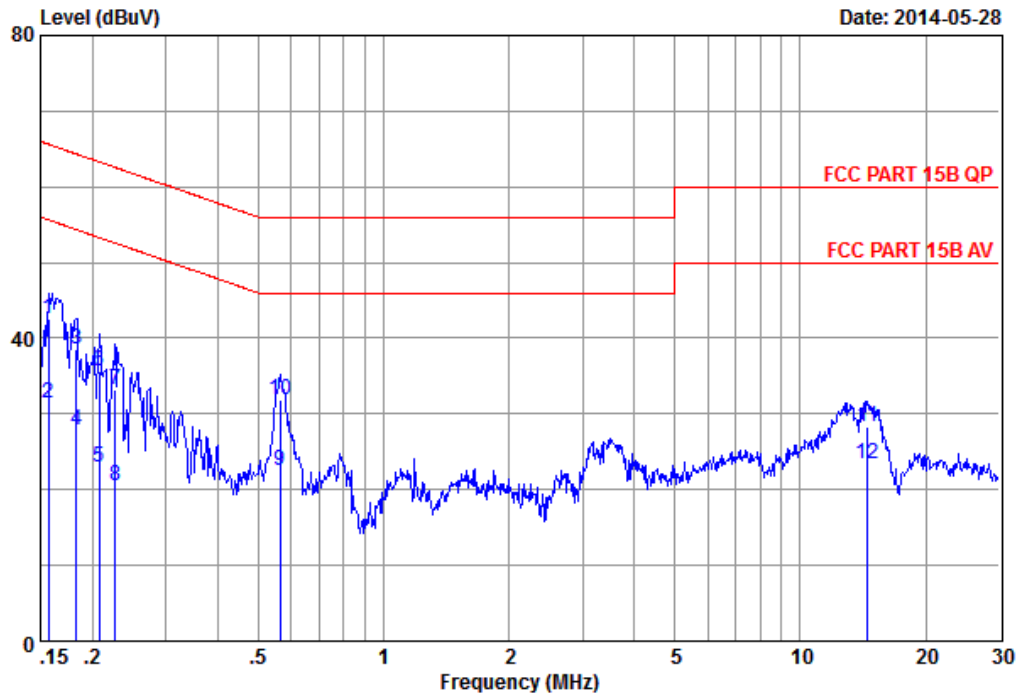


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Data: 7

File: F:\2014Test Data\Report\06\G1406003.EM6 (12)

Date: 2014-05-28



Site no. : No.1 Conducted shielding Enclosure Data no. : 7
 AMN/LISN : ESH2-Z5-1405 Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Env. / Ins. : 24.3°C&62%/ESCI Engineer : KM.Tong
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test mode : Transmitting
 Memo : 3DH1

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	0.13	9.86	32.51	42.50	65.62	23.12	QP
2	0.16	0.13	9.86	21.51	31.50	55.62	24.12	Average
3	0.18	0.13	9.87	28.60	38.60	64.35	25.75	QP
4	0.18	0.13	9.87	17.90	27.90	54.35	26.45	Average
5	0.21	0.13	9.87	13.00	23.00	53.28	30.28	Average
6	0.21	0.13	9.87	25.60	35.60	63.28	27.68	QP
7	0.23	0.13	9.87	23.10	33.10	62.58	29.48	QP
8	0.23	0.13	9.87	10.60	20.60	52.58	31.98	Average
9	0.56	0.15	9.87	12.51	22.53	46.00	23.47	Average
10	0.56	0.15	9.87	21.81	31.83	56.00	24.17	QP
11	14.52	0.53	10.05	17.70	28.28	60.00	31.72	QP
12	14.52	0.53	10.05	12.80	23.38	50.00	26.62	Average

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

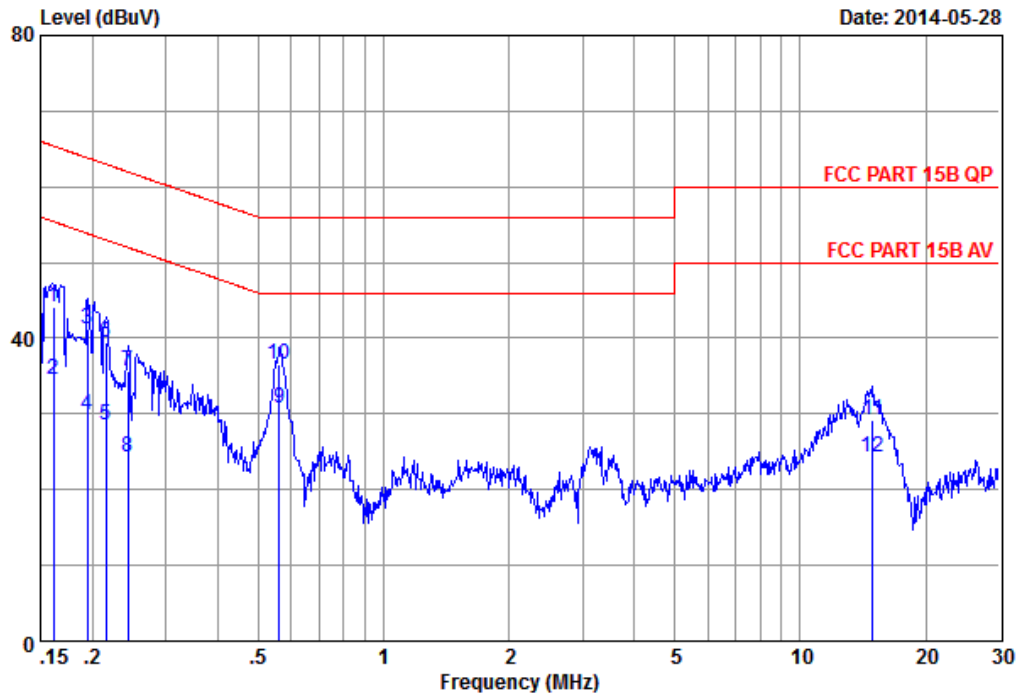


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Data: 8

File: F:\2014Test Data\Report\06\G1406003.EM6 (12)

Date: 2014-05-28



Site no. : No.1 Conducted shielding Enclosure Data no. : 8
 AMN/LISN : ESH2-Z5-1405 Phase : LINE
 Limit : FCC PART 15B QP
 Env. / Ins. : 24.3°C&62%/ESCI Engineer : KM.Tong
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test mode : Transmitting
 Memo : 3DH1

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	0.19	9.86	34.10	44.15	65.39	21.24	QP
2	0.16	0.19	9.86	24.60	34.65	55.39	20.74	Average
3	0.19	0.18	9.87	31.10	41.15	63.86	22.71	QP
4	0.19	0.18	9.87	19.90	29.95	53.86	23.91	Average
5	0.22	0.18	9.87	18.50	28.55	53.01	24.46	Average
6	0.22	0.18	9.87	29.30	39.35	63.01	23.66	QP
7	0.24	0.18	9.87	25.60	35.65	62.00	26.35	QP
8	0.24	0.18	9.87	14.30	24.35	52.00	27.65	Average
9	0.56	0.20	9.87	20.70	30.77	46.00	15.23	Average
10	0.56	0.20	9.87	26.50	36.57	56.00	19.43	QP
11	14.90	0.45	10.06	18.60	29.11	60.00	30.89	QP
12	14.90	0.45	10.06	13.70	24.21	50.00	25.79	Average

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

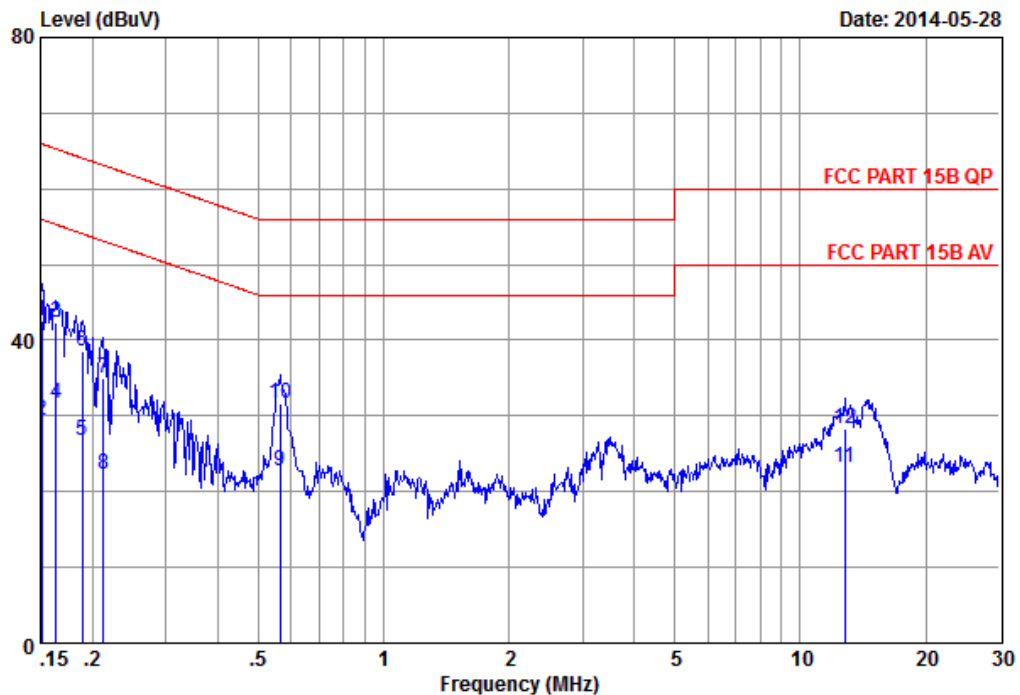


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Data: 9

File: F:\2014Test Data\Report\06\G1406003.EM6 (12)

Date: 2014-05-28



Site no. : No.1 Conducted shielding Enclosure Data no. : 9
 AMN/LISN : ESH2-Z5-1405 Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Env. / Ins. : 24.3°C&62%/ESCI Engineer : KM.Tong
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test mode : Transmitting
 Memo : 3DH3

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.13	9.86	32.61	42.60	65.96	23.36	QP
2	0.15	0.13	9.86	19.41	29.40	55.96	26.56	Average
3	0.16	0.13	9.86	32.31	42.30	65.28	22.98	QP
4	0.16	0.13	9.86	21.71	31.70	55.28	23.58	Average
5	0.19	0.13	9.87	16.80	26.80	54.08	27.28	Average
6	0.19	0.13	9.87	28.60	38.60	64.08	25.48	QP
7	0.21	0.13	9.87	25.00	35.00	63.11	28.11	QP
8	0.21	0.13	9.87	12.20	22.20	53.11	30.91	Average
9	0.56	0.15	9.87	12.71	22.73	46.00	23.27	Average
10	0.56	0.15	9.87	21.71	31.73	56.00	24.27	QP
11	12.77	0.47	10.04	12.60	23.11	50.00	26.89	Average
12	12.77	0.47	10.04	17.70	28.21	60.00	31.79	QP

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

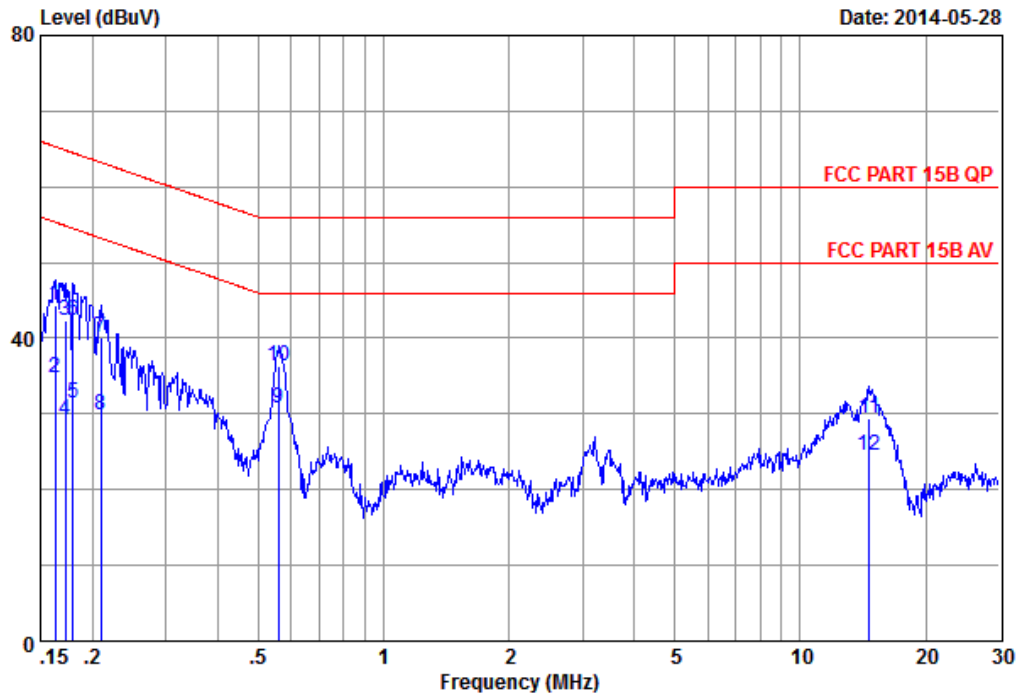


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Data: 10

File: F:\2014Test Data\Report\06\G1406003.EM6 (12)

Date: 2014-05-28



Site no. : No.1 Conducted shielding Enclosure Data no. : 10
 AMN/LISN : ESH2-Z5-1405 Phase : LINE
 Limit : FCC PART 15B QP
 Env. / Ins. : 24.3°C&62%/ESCI Engineer : KM.Tong
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test mode : Transmitting
 Memo : 3DH3

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	0.19	9.86	34.20	44.25	65.32	21.07	QP
2	0.16	0.19	9.86	24.80	34.85	55.32	20.47	Average
3	0.17	0.18	9.87	32.30	42.35	64.86	22.51	QP
4	0.17	0.18	9.87	19.20	29.25	54.86	25.61	Average
5	0.18	0.18	9.87	21.40	31.45	54.51	23.06	Average
6	0.18	0.18	9.87	32.30	42.35	64.51	22.16	QP
7	0.21	0.18	9.87	30.00	40.05	63.22	23.17	QP
8	0.21	0.18	9.87	19.70	29.75	53.22	23.47	Average
9	0.56	0.20	9.87	20.60	30.67	46.00	15.33	Average
10	0.56	0.20	9.87	26.30	36.37	56.00	19.63	QP
11	14.67	0.44	10.06	19.00	29.50	60.00	30.50	QP
12	14.67	0.44	10.06	14.00	24.50	50.00	25.50	Average

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

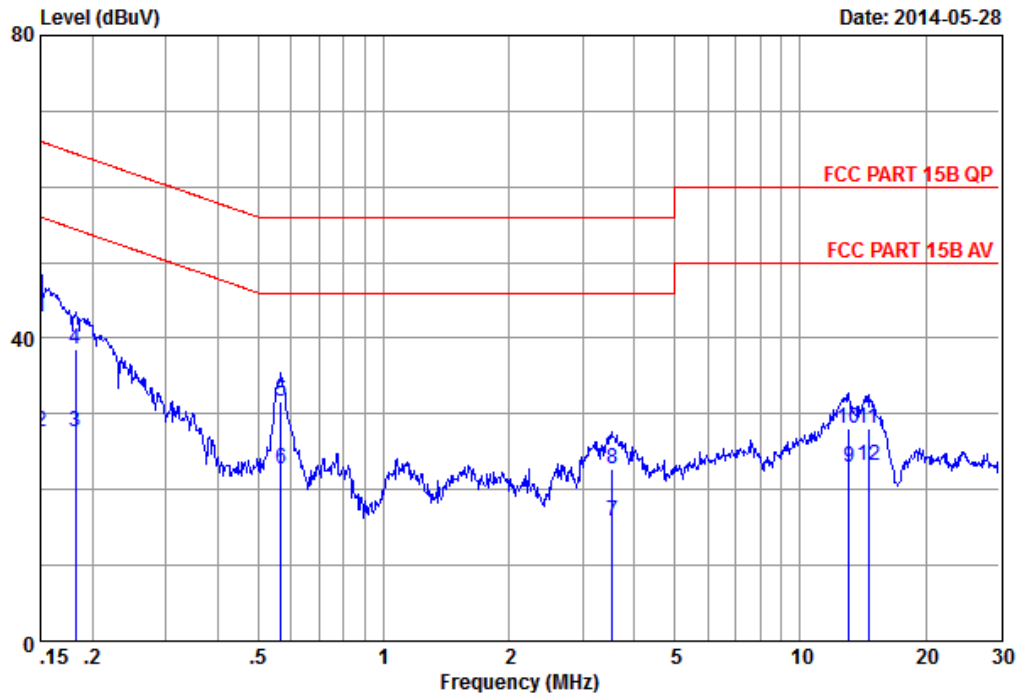


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Data: 11

File: F:\2014Test Data\Report\06\G1406003.EM6 (12)

Date: 2014-05-28



Site no. : No.1 Conducted shielding Enclosure Data no. : 11
 AMN/LISN : ESH2-Z5-1405 Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Env. / Ins. : 24.3*C&62%/ESCI Engineer : KM.Tong
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test mode : Transmitting
 Memo : 3DH5

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.13	9.86	32.91	42.90	65.96	23.06	QP
2	0.15	0.13	9.86	17.61	27.60	55.96	28.36	Average
3	0.18	0.13	9.87	17.70	27.70	54.39	26.69	Average
4	0.18	0.13	9.87	28.50	38.50	64.39	25.89	QP
5	0.57	0.15	9.87	21.71	31.73	56.00	24.27	QP
6	0.57	0.15	9.87	12.61	22.63	46.00	23.37	Average
7	3.53	0.24	9.92	5.60	15.76	46.00	30.24	Average
8	3.53	0.24	9.92	12.60	22.76	56.00	33.24	QP
9	13.06	0.48	10.04	12.40	22.92	50.00	27.08	Average
10	13.06	0.48	10.04	17.50	28.02	60.00	31.98	QP
11	14.59	0.53	10.05	17.50	28.08	60.00	31.92	QP
12	14.59	0.53	10.05	12.50	23.08	50.00	26.92	Average

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

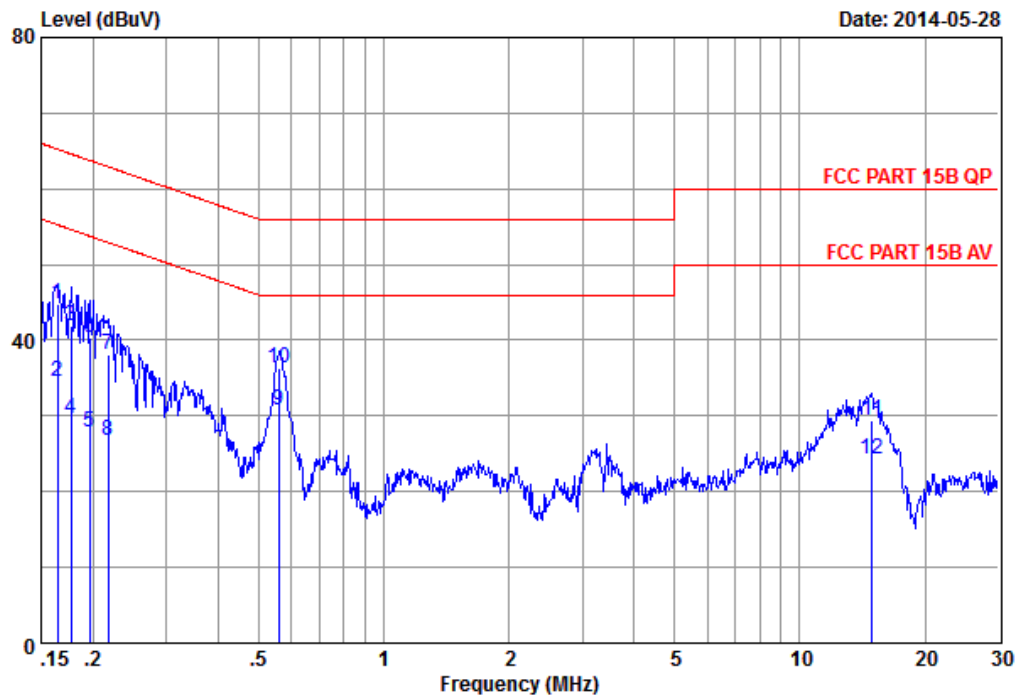


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Data: 12

File: F:\2014Test Data\Report\06\G1406003.EM6 (12)

Date: 2014-05-28



Site no. : No.1 Conducted shielding Enclosure Data no. : 12
 AMN/LISN : ESH2-Z5-1405 Phase : LINE
 Limit : FCC PART 15B QP
 Env. / Ins. : 24.3*C&62%/ESCI Engineer : KM.Tong
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test mode : Transmitting
 Memo : 3DH5

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	0.19	9.86	34.80	44.85	65.23	20.38	QP
2	0.16	0.19	9.86	24.60	34.65	55.23	20.58	Average
3	0.18	0.18	9.87	31.80	41.85	64.62	22.77	QP
4	0.18	0.18	9.87	19.50	29.55	54.62	25.07	Average
5	0.20	0.18	9.87	17.80	27.85	53.77	25.92	Average
6	0.20	0.18	9.87	30.20	40.25	63.77	23.52	QP
7	0.22	0.18	9.87	28.00	38.05	62.91	24.86	QP
8	0.22	0.18	9.87	16.60	26.65	52.91	26.26	Average
9	0.56	0.20	9.87	20.70	30.77	46.00	15.23	Average
10	0.56	0.20	9.87	26.30	36.37	56.00	19.63	QP
11	14.90	0.45	10.06	18.80	29.31	60.00	30.69	QP
12	14.90	0.45	10.06	13.70	24.21	50.00	25.79	Average

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

4. RADIATED EMISSION MEASUREMENT

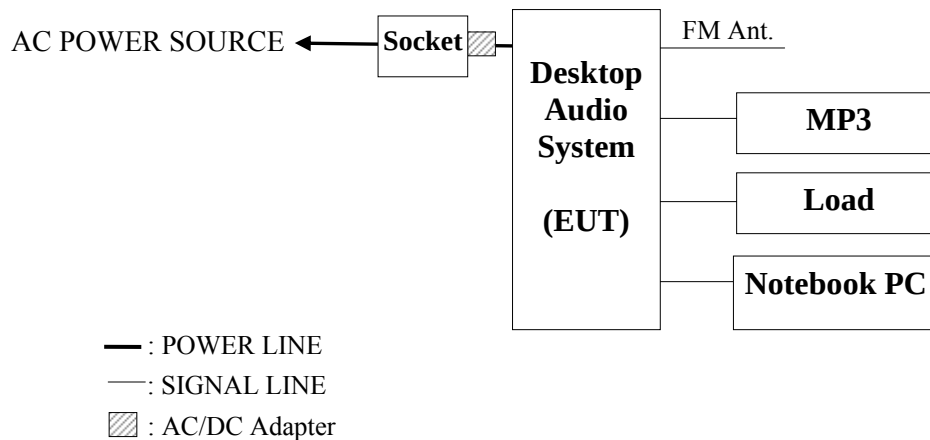
4.1. Test Equipment

The following test equipment was used during the radiated emission measurement:
At 3m Semi-Anechoic Chamber

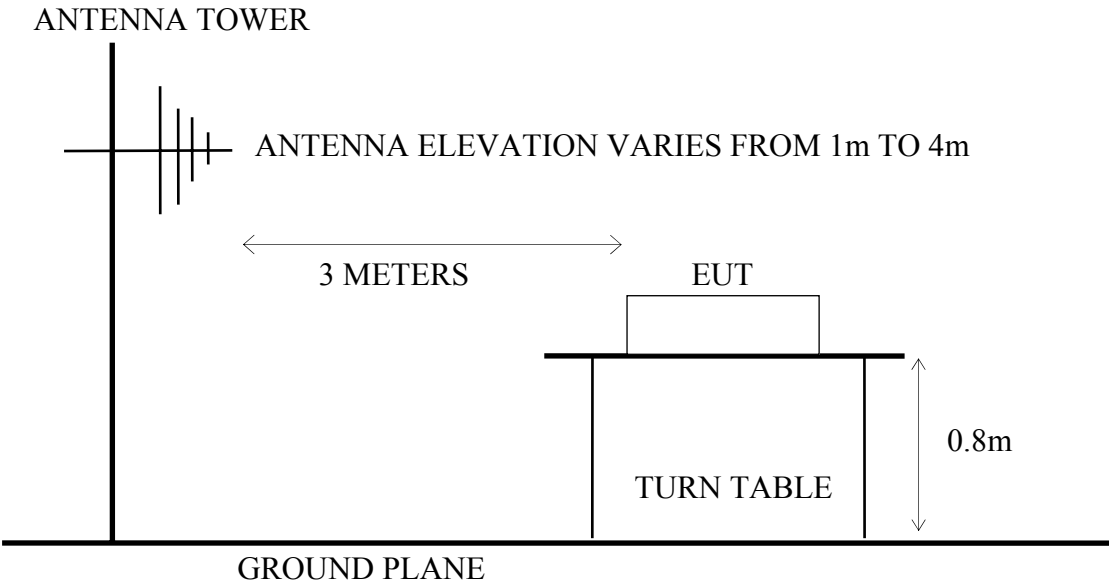
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Preamplifier	Agilent	8449B	3008A02233	2014-01-05	2015-01-04
2.	Preamplifier	Agilent	8447D	2944A10921	2013-08-14	2014-08-13
3.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2013-06-24	2014-06-23
4.	Test Receiver	R&S	ESCI	100361	2014-01-05	2015-01-04
5.	Bi-log Antenna	Schaffner	CBL6112D	22251	2014-04-09	2015-04-08
6.	Horn Antenna	EMCO	3115	00062593	2013-05-28	2014-05-27
7.	RF Cable	Yuhang CSYH	cable-3m	002(0.5m)	2014-03-24	2015-03-23
8.	RF Cable	Yuhang CSYH	cable-3m	003(3.0m)	2014-03-24	2015-03-23
9.	RF Cable	Yuhang CSYH	cable-3m	004(0.5m)	2014-03-24	2015-03-23

4.2. Block Diagram of Test Setup

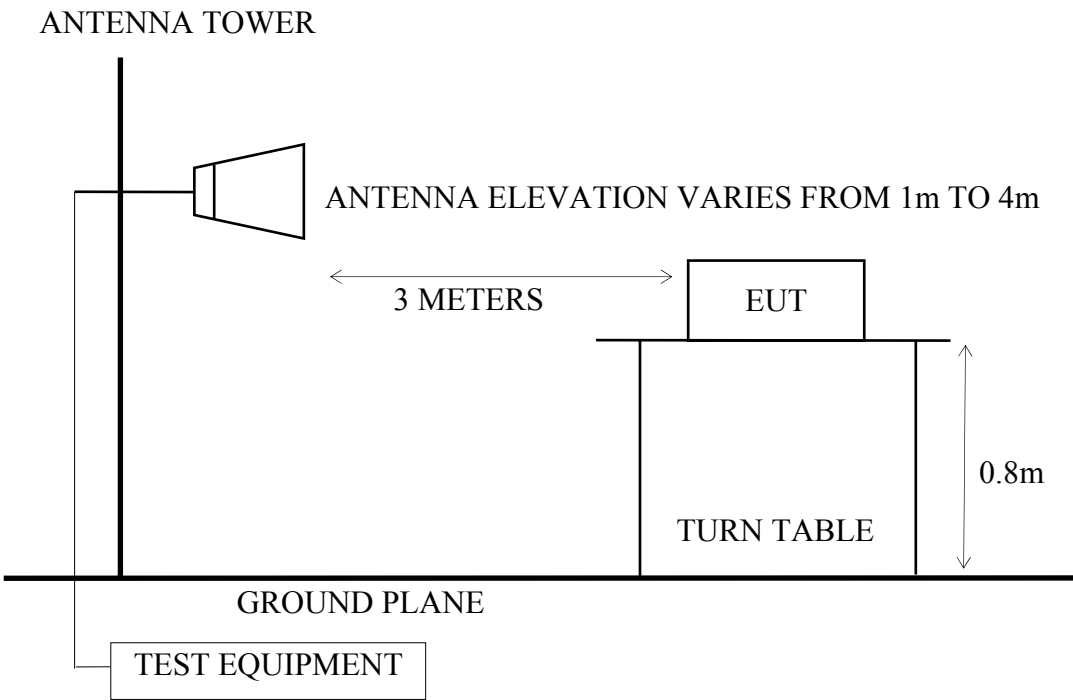
4.2.1. Block Diagram of Test Setup between EUT and simulators



4.2.2. No. 1 3m Semi-Anechoic Chamber Setup Diagram (Test distance:3m) for 30-1000MHz



4.2.3. No. 1 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for above 1GHz



4.3. Radiated Emission Limits

Radiated Emission Limits (FCC Part15 C, section 15.209, CISPR22)

Frequency MHz	Distance Meters	Field Strengths Limits
		dB μ V/m
30 ~ 230	10	30.0
230 ~ 1000	10	37.0
Above 1000	3	74.0 dB μ V/m (Peak) 54.0 dB μ V/m (Average)

Remark : (1) Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
(2)The tighter limit applies at the edge between two frequency bands.

4.4. Test Procedure

The measuring process is according to ANSI C63.4-2003 and laboratory internal procedure TKC-301-001. (For FCC Part15 Subpart C)

In the radiated disturbance measurement, the EUT and all simulators were set up on a non-metallic turn table which was 0.8 meters above the ground plane. Measurement distance between EUT and receiving antennas was set at 10 meters at 30MHz~1000MHz and 3 meters at above 1GHz. The specified distance is the distance between the antennas and the closest periphery of EUT. During the radiated measurement, the EUT was rotated 360° and receiving antennas were moved from 1 ~ 4 meters for finding maximum emission. Two receiving antennas were used for both horizontal and vertical polarization detection for 30MHz~1GHz, One receiving antennas was used for both horizontal and vertical polarization detection for above 1GHz (the absorbing material was added when testing of above 1GHz was done). All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver (or spectrum analyzer) was set to:

RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz
RBW (1 MHz), VBW (1MHz) for Peak detector above 1GHz
RBW (1 MHz), VBW (1MHz) for AV detector above 1GHz

The required frequency band (30 MHz ~ 12000 MHz) was pre-scanned with peak detector; all final measurements were measured with quasi-peak detector below 1GHz, measured with average detector and peak detector above 1GHz.

The emission level is calculated automatically by the test system which uses the following equation :

- For 30-1000MHz measurement:
Emission Level (dB μ V/m) = Meter-Reading (dB μ V)+Antenna Factor (dB/m)+Cable Loss (dB)
- For Above 1GHz measurement:
Emission Level (dB μ V/m) = Meter-Reading (dB μ V)+Antenna Factor (dB/m)+Cable Loss(dB)
-Pre-amplifier factor (dB)

4.5. Measurement Results

PASSED

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

4.5.1. For Restricted Bands:

The EUT was tested in restricted bands and all the test results are listed in section 4.6 & 4.7.

(The restricted bands defined in part 15.205(a))

For Frequency range : below 1GHz

No.	Test Mode and Frequency		Reference Test Data No.	
			Horizontal	Vertical
1	Transmitting	DH1:2402MHz (Channel 0)	# 33	# 34
2		DH1:2441MHz (Channel 39)	# 35	# 36
3		DH1:2480MHz (Channel 78)	# 37	# 38
4		DH5:2402MHz (Channel 0)	# 39	# 40
5		DH5:2441MHz (Channel 39)	# 41	# 42
6		DH5:2480MHz (Channel 78)	# 43	# 44
7		3DH1:2402MHz (Channel 0)	# 45	# 46
8		3DH1:2441MHz (Channel 39)	# 47	# 48
9		3DH1:2480MHz (Channel 78)	# 49	# 50
10		3DH5:2402MHz (Channel 0)	# 51	# 52
11		3DH5:2441MHz (Channel 39)	# 53	# 54
12		3DH5:2480MHz (Channel 78)	# 55	# 56
13	Receiving	2402MHz (Channel 0)	# 57	# 58
14		2480MHz (Channel 78)	# 59	# 60

For Frequency range : above 1GHz

No.	Test Mode and Frequency		Reference Test Data No.	
			Horizontal	Vertical
1	Transmitting	DH1:2402MHz (Channel 0)	# 61	# 62
2		DH1:2441MHz (Channel 39)	# 63	# 64
3		DH1:2480MHz (Channel 78)	# 65	# 66
4		DH5:2402MHz (Channel 0)	# 67	# 68
5		DH5:2441MHz (Channel 39)	# 69	# 70
6		DH5:2480MHz (Channel 78)	# 71	# 72
7		3DH1:2402MHz (Channel 0)	# 73	# 74
8		3DH1:2441MHz (Channel 39)	# 75	# 76
9		3DH1:2480MHz (Channel 78)	# 77	# 78

10		3DH5:2402MHz (Channel 0)	# 79	# 80
11		3DH5:2441MHz (Channel 39)	# 81	# 82
12		3DH5:2480MHz (Channel 78)	# 83	# 84
13	Receiving	2402MHz (Channel 0)	# 85	# 86
14		2480MHz (Channel 78)	# 87	# 88

4.5.2. For Band Edge Emission

The EUT was tested in restricted bands and all the test results are listed in section 4.8. The restricted bands defined in part 15.205(a))

No.	Test Mode and Frequency		Reference Test Data No.	
			Horizontal	Vertical
1	Transmitting	DH1:2402MHz (Channel 0)	# 1, # 3	# 2, # 4
2		DH1:2480MHz (Channel 78)	# 5, # 7	# 6, # 8
3		DH5:2402MHz (Channel 0)	# 9, # 11	# 10, # 12
4		DH5:2480MHz (Channel 78)	# 13, # 15	# 14, # 16
5		3DH1:2402MHz (Channel 0)	# 17, # 19	# 18, # 20
6		3DH1:2480MHz (Channel 78)	# 21, # 23	# 22, # 24
7		3DH5:2402MHz (Channel 0)	# 25, # 27	# 26, # 28
8		3DH5:2480MHz (Channel 78)	# 29 , # 31	# 30, # 32

4.6. Restricted Bands Measurement Results (For Below 1GHz)



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Site NO. : 3m chamber Data NO. :33
Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : HORIZONTAL
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8°C&52%/ESCI Engineer : Tiger
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : TX CH0 2402MHz
Memo : DH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	133.79	11.95	0.75	46.41	32.21	43.50	11.29	QP
2	159.98	10.50	0.91	45.47	30.11	43.50	13.39	QP
3	233.49	11.55	1.06	50.89	37.02	46.00	8.98	QP
4	254.07	13.30	1.24	46.49	34.61	46.00	11.39	QP
5	380.92	15.92	1.40	50.10	40.56	46.00	5.44	QP
6	405.53	16.92	1.48	47.90	39.27	46.00	6.73	QP

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. : 3m chamber Data NO. :34
Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : VERTICAL
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8°C&52%/ESCI Engineer : Tiger
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : TX CH0 2402MHz
Memo : DH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.26	19.85	0.21	41.89	34.45	40.00	5.55	QP
2	135.17	11.96	0.76	51.60	37.43	43.50	6.07	QP
3	159.98	10.50	0.91	47.73	32.37	43.50	11.13	QP
4	215.27	10.36	0.99	45.20	30.02	43.50	13.48	QP
5	256.98	13.50	1.20	43.40	31.69	46.00	14.31	QP
6	392.78	16.26	1.53	40.07	30.92	46.00	15.08	QP

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. : 3m chamber
Dis. / Ant. : 3m 6112D(22251)-1404-3M
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8°C&52%/ESCI
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : TX CH39 2441MHz
Memo : DH1

Data NO. :35
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	133.79	11.95	0.75	45.30	31.10	43.50	12.40	QP
2	199.75	11.05	1.00	48.23	33.70	43.50	9.80	QP
3	226.91	10.99	1.16	51.29	36.94	46.00	9.06	QP
4	241.46	12.27	1.05	48.69	35.55	46.00	10.45	QP
5	381.14	15.92	1.40	48.30	38.76	46.00	7.24	QP
6	405.39	16.92	1.48	45.82	37.19	46.00	8.81	QP

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. : 3m chamber
Dis. / Ant. : 3m 6112D(22251)-1404-3M
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8°C&52%/ESCI
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : TX CH39 2441MHz
Memo : DH1

Data NO. :36
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	32.91	19.05	0.24	41.53	33.32	40.00	6.68	QP
2	133.79	11.95	0.75	50.42	36.22	43.50	7.28	QP
3	159.98	10.50	0.91	47.53	32.17	43.50	11.33	QP
4	256.98	13.50	1.20	44.77	33.06	46.00	12.94	QP
5	343.31	15.20	1.39	41.02	30.98	46.00	15.02	QP
6	552.83	18.80	1.78	39.03	31.98	46.00	14.02	QP

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. : 3m chamber Data NO. :37
 Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 CLASS B
 Env. / Ins. : 25.8°C&52%/ESCI Engineer : Tiger
 EUT : Desktop Audio system
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : DH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	133.79	11.95	0.75	45.81	31.61	43.50	11.89	QP
2	203.63	10.92	1.00	49.26	34.62	43.50	8.88	QP
3	229.82	11.19	1.10	51.58	37.38	46.00	8.62	QP
4	246.31	12.72	1.09	48.40	35.77	46.00	10.23	QP
5	381.14	15.92	1.40	48.77	39.23	46.00	6.77	QP
6	405.39	16.92	1.48	46.15	37.52	46.00	8.48	QP

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. : 3m chamber Data NO. :38
 Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : VERTICAL
 Limit : FCC PART 15 CLASS B
 Env. / Ins. : 25.8°C&52%/ESCI Engineer : Tiger
 EUT : Desktop Audio system
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : DH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	19.71	0.22	40.91	33.34	40.00	6.66	QP
2	133.79	11.95	0.75	49.90	35.70	43.50	7.80	QP
3	159.98	10.50	0.91	46.70	31.34	43.50	12.16	QP
4	256.98	13.50	1.20	44.69	32.98	46.00	13.02	QP
5	343.31	15.20	1.39	42.58	32.54	46.00	13.46	QP
6	552.83	18.80	1.78	39.20	32.15	46.00	13.85	QP

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. : 3m chamber Data NO. :39
 Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 CLASS B
 Env. / Ins. : 25.8°C&52%/ESCI Engineer : Tiger
 EUT : Desktop Audio system
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test Mode : TX CHO 2402MHz
 Memo : DH5

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	94.02	10.70	0.64	47.93	32.16	43.50	11.34	QP
2	121.18	13.78	0.82	44.48	32.11	43.50	11.39	QP
3	136.70	11.89	0.78	43.53	29.31	43.50	14.19	QP
4	198.78	10.86	0.99	47.20	32.47	43.50	11.03	QP
5	237.58	12.06	1.07	51.14	37.80	46.00	8.20	QP
6	431.58	16.94	1.59	41.31	32.62	46.00	13.38	QP

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. : 3m chamber Data NO. :40
 Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : VERTICAL
 Limit : FCC PART 15 CLASS B
 Env. / Ins. : 25.8°C&52%/ESCI Engineer : Tiger
 EUT : Desktop Audio system
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test Mode : TX CHO 2402MHz
 Memo : DH5

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	19.71	0.22	40.95	33.38	40.00	6.62	QP
2	98.87	11.39	0.62	44.60	29.53	43.50	13.97	QP
3	118.27	13.21	0.87	44.49	31.59	43.50	11.91	QP
4	222.06	10.70	1.16	43.80	29.15	46.00	16.85	QP
5	312.27	14.19	1.24	42.38	31.35	46.00	14.65	QP
6	427.70	17.14	1.60	38.88	30.43	46.00	15.57	QP

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. : 3m chamber
Dis. / Ant. : 3m 6112D(22251)-1404-3M
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8°C&52%/ESCI
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : TX CH39 2441MHz
Memo : DH5

Data NO. :41
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	94.99	10.85	0.63	44.83	29.21	43.50	14.29	QP
2	137.67	11.75	0.81	45.71	31.39	43.50	12.11	QP
3	175.50	9.92	0.83	47.53	31.59	43.50	11.91	QP
4	198.78	10.86	0.99	47.47	32.74	43.50	10.76	QP
5	230.79	11.28	1.09	51.96	37.84	46.00	8.16	QP
6	427.70	17.14	1.60	42.31	33.86	46.00	12.14	QP

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. : 3m chamber
Dis. / Ant. : 3m 6112D(22251)-1404-3M
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8°C&52%/ESCI
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : TX CH39 2441MHz
Memo : DH5

Data NO. :42
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	19.71	0.22	41.61	34.04	40.00	5.96	QP
2	98.87	11.39	0.62	46.81	31.74	43.50	11.76	QP
3	118.27	13.21	0.87	48.03	35.13	43.50	8.37	QP
4	203.63	10.92	1.00	47.62	32.98	43.50	10.52	QP
5	229.82	11.19	1.10	47.30	33.10	46.00	12.90	QP
6	431.58	16.94	1.59	41.36	32.67	46.00	13.33	QP

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. : 3m chamber
 Dis. / Ant. : 3m 6112D(22251)-1404-3M
 Limit : FCC PART 15 CLASS B
 Env. / Ins. : 25.8°C&52%/ESCI
 EUT : Desktop Audio system
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : DH5

Data NO. :43
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.90	11.29	0.60	41.75	26.55	43.50	16.95	QP
2	131.85	12.41	0.74	43.82	30.06	43.50	13.44	QP
3	198.78	10.86	0.99	49.26	34.53	43.50	8.97	QP
4	234.67	11.70	1.06	52.57	38.85	46.00	7.15	QP
5	277.35	13.47	1.21	45.87	34.19	46.00	11.81	QP
6	431.58	16.94	1.59	42.21	33.52	46.00	12.48	QP

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. : 3m chamber
 Dis. / Ant. : 3m 6112D(22251)-1404-3M
 Limit : FCC PART 15 CLASS B
 Env. / Ins. : 25.8°C&52%/ESCI
 EUT : Desktop Audio system
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : DH5

Data NO. :44
 Ant. pol. : VERTICAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	19.71	0.22	41.36	33.79	40.00	6.21	QP
2	94.02	10.70	0.64	46.93	31.16	43.50	12.34	QP
3	121.18	13.78	0.82	46.48	34.11	43.50	9.39	QP
4	214.30	10.32	1.00	45.92	30.71	43.50	12.79	QP
5	254.07	13.30	1.24	42.45	30.57	46.00	15.43	QP
6	431.58	16.94	1.59	41.56	32.87	46.00	13.13	QP

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. : 3m chamber
Dis. / Ant. : 3m 6112D(22251)-1404-3M
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8°C&52%/ESCI
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : TX CH0 2402MHz
Memo : 3DH1

Data NO. :45
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	94.99	10.85	0.63	39.52	23.90	43.50	19.60	QP
2	131.85	12.41	0.74	45.30	31.54	43.50	11.96	QP
3	188.11	9.61	1.01	48.31	32.30	43.50	11.20	QP
4	225.94	10.90	1.16	51.80	37.36	46.00	8.64	QP
5	246.31	12.72	1.09	48.49	35.86	46.00	10.14	QP
6	432.55	16.90	1.59	43.38	34.64	46.00	11.36	QP

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. : 3m chamber
Dis. / Ant. : 3m 6112D(22251)-1404-3M
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8°C&52%/ESCI
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : TX CH0 2402MHz
Memo : 3DH1

Data NO. :46
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	19.71	0.22	42.32	34.75	40.00	5.25	QP
2	66.86	6.29	0.44	48.87	28.32	40.00	11.68	QP
3	94.99	10.85	0.63	48.21	32.59	43.50	10.91	QP
4	124.09	14.37	0.74	46.11	34.27	43.50	9.23	QP
5	254.07	13.30	1.24	48.86	36.98	46.00	9.02	QP
6	431.58	16.94	1.59	45.43	36.74	46.00	9.26	QP

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. : 3m chamber Data NO. :47
Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : HORIZONTAL
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8°C&52%/ESCI Engineer : Tiger
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : TX CH39 2441MHz
Memo : 3DH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	94.99	10.85	0.63	42.41	26.79	43.50	16.71	QP
2	136.70	11.89	0.78	46.10	31.88	43.50	11.62	QP
3	237.58	12.06	1.07	52.10	38.76	46.00	7.24	QP
4	312.27	14.19	1.24	46.67	35.64	46.00	10.36	QP
5	366.59	15.76	1.44	44.36	34.80	46.00	11.20	QP
6	431.58	16.94	1.59	43.03	34.34	46.00	11.66	QP

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. : 3m chamber Data NO. :48
Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : VERTICAL
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8°C&52%/ESCI Engineer : Tiger
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : TX CH39 2441MHz
Memo : 3DH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	19.71	0.22	41.59	34.02	40.00	5.98	QP
2	94.02	10.70	0.64	47.47	31.70	43.50	11.80	QP
3	121.18	13.78	0.82	46.51	34.14	43.50	9.36	QP
4	238.55	12.13	1.07	49.56	36.29	46.00	9.71	QP
5	431.58	16.94	1.59	42.20	33.51	46.00	12.49	QP
6	594.54	18.90	1.87	36.97	30.10	46.00	15.90	QP

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. : 3m chamber Data NO. :49
 Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 CLASS B
 Env. / Ins. : 25.8°C&52%/ESCI Engineer : Tiger
 EUT : Desktop Audio system
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : 3DH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.90	11.29	0.60	45.49	30.29	43.50	13.21	QP
2	128.94	12.87	0.75	43.19	29.88	43.50	13.62	QP
3	237.58	12.06	1.07	51.71	38.37	46.00	7.63	QP
4	256.98	13.50	1.20	49.55	37.84	46.00	8.16	QP
5	296.75	13.74	1.33	45.65	34.34	46.00	11.66	QP
6	431.58	16.94	1.59	43.64	34.95	46.00	11.05	QP

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. : 3m chamber Data NO. :50
 Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : VERTICAL
 Limit : FCC PART 15 CLASS B
 Env. / Ins. : 25.8°C&52%/ESCI Engineer : Tiger
 EUT : Desktop Audio system
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : 3DH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	19.71	0.22	42.15	34.58	40.00	5.42	QP
2	90.14	9.83	0.71	48.27	31.67	43.50	11.83	QP
3	122.15	13.75	0.80	43.87	31.46	43.50	12.04	QP
4	237.58	12.06	1.07	47.46	34.12	46.00	11.88	QP
5	431.58	16.94	1.59	43.52	34.83	46.00	11.17	QP
6	463.59	17.34	1.68	40.80	32.45	46.00	13.55	QP

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. : 3m chamber
Dis. / Ant. : 3m 6112D(22251)-1404-3M
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8°C&52%/ESCI
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : TX CHO 2402MHz
Memo : 3DH5

Data NO. : 51
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	19.71	0.22	42.15	34.58	40.00	5.42	QP
2	90.14	9.83	0.71	48.27	31.67	43.50	11.83	QP
3	122.15	13.75	0.80	46.87	34.46	43.50	9.04	QP
4	237.58	12.06	1.07	47.46	34.12	46.00	11.88	QP
5	303.54	13.97	1.32	42.97	31.85	46.00	14.15	QP
6	431.58	16.94	1.59	44.52	35.83	46.00	10.17	QP

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. : 3m chamber
Dis. / Ant. : 3m 6112D(22251)-1404-3M
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8°C&52%/ESCI
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : TX CHO 2402MHz
Memo : 3DH5

Data NO. : 52
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	19.71	0.22	41.04	33.47	40.00	6.53	QP
2	94.99	10.85	0.63	44.42	28.80	43.50	14.70	QP
3	118.27	13.21	0.87	45.55	32.65	43.50	10.85	QP
4	230.79	11.28	1.09	49.65	35.53	46.00	10.47	QP
5	254.07	13.30	1.24	47.76	35.88	46.00	10.12	QP
6	431.58	16.94	1.59	44.68	35.99	46.00	10.01	QP

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. : 3m chamber Data NO. :53
 Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 CLASS B
 Env. / Ins. : 25.8°C&52%/ESCI Engineer : Tiger
 EUT : Desktop Audio system
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test Mode : TX CH39 2441MHz
 Memo : 3DH5

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	94.02	10.70	0.64	42.29	26.52	43.50	16.98	QP
2	128.94	12.87	0.75	44.08	30.77	43.50	12.73	QP
3	225.94	10.90	1.16	53.11	38.67	46.00	7.33	QP
4	245.34	12.63	1.07	50.93	38.19	46.00	7.81	QP
5	308.39	14.07	1.21	47.23	36.07	46.00	9.93	QP
6	427.70	17.14	1.60	42.35	33.90	46.00	12.10	QP

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. : 3m chamber Data NO. :54
 Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : VERTICAL
 Limit : FCC PART 15 CLASS B
 Env. / Ins. : 25.8°C&52%/ESCI Engineer : Tiger
 EUT : Desktop Audio system
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test Mode : TX CH39 2441MHz
 Memo : 3DH5

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	19.71	0.22	40.91	33.34	40.00	6.66	QP
2	124.09	14.37	0.74	43.13	31.29	43.50	12.21	QP
3	179.38	9.93	0.95	44.93	29.14	43.50	14.36	QP
4	253.10	13.21	1.27	49.00	37.06	46.00	8.94	QP
5	431.58	16.94	1.59	44.16	35.47	46.00	10.53	QP
6	479.11	17.82	1.65	42.49	34.53	46.00	11.47	QP

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. : 3m chamber
Dis. / Ant. : 3m 6112D(22251)-1404-3M
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8°C&52%/ESCI
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : TX CH78 2480MHz
Memo : 3DH5

Data NO. :55
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	94.99	10.85	0.63	45.22	29.60	43.50	13.90	QP
2	132.82	12.19	0.74	46.08	32.10	43.50	11.40	QP
3	207.51	10.72	0.98	47.61	32.76	43.50	10.74	QP
4	241.46	12.27	1.05	51.15	38.01	46.00	7.99	QP
5	292.87	13.60	1.33	46.86	35.43	46.00	10.57	QP
6	431.58	16.94	1.59	43.17	34.48	46.00	11.52	QP

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. : 3m chamber
Dis. / Ant. : 3m 6112D(22251)-1404-3M
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8°C&52%/ESCI
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : TX CH78 2480MHz
Memo : 3DH5

Data NO. :56
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	19.71	0.22	41.84	34.27	40.00	5.73	QP
2	94.99	10.85	0.63	44.65	29.03	43.50	14.47	QP
3	110.51	12.50	0.68	44.63	30.79	43.50	12.71	QP
4	120.21	13.88	0.85	44.06	31.82	43.50	11.68	QP
5	245.34	12.63	1.07	49.40	36.66	46.00	9.34	QP
6	427.70	17.14	1.60	41.93	33.48	46.00	12.52	QP

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. : 3m chamber Data NO. :57
 Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 CLASS B
 Env. / Ins. : 25.8°C&52%/ESCI Engineer : Tiger
 EUT : Desktop Audio system
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test Mode : RX CH0 2402MHz
 Memo :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	94.99	10.85	0.63	38.58	22.96	43.50	20.54	QP
2	137.67	11.75	0.81	45.62	31.30	43.50	12.20	QP
3	223.03	10.75	1.17	52.03	37.44	46.00	8.56	QP
4	238.55	12.13	1.07	49.71	36.44	46.00	9.56	QP
5	319.06	14.46	1.32	45.31	34.59	46.00	11.41	QP
6	428.67	17.08	1.60	43.16	34.64	46.00	11.36	QP

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. : 3m chamber Data NO. :58
 Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : VERTICAL
 Limit : FCC PART 15 CLASS B
 Env. / Ins. : 25.8°C&52%/ESCI Engineer : Tiger
 EUT : Desktop Audio system
 M/N : TSX-B15
 Power Rating : 120Vac/60Hz
 Test Mode : RX CH0 2402MHz
 Memo :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	19.71	0.22	42.55	34.98	40.00	5.02	QP
2	47.46	9.79	0.44	44.04	26.86	40.00	13.14	QP
3	94.99	10.85	0.63	42.96	27.34	43.50	16.16	QP
4	121.18	13.78	0.82	44.30	31.93	43.50	11.57	QP
5	249.22	12.86	1.21	45.78	33.42	46.00	12.58	QP
6	427.70	17.14	1.60	40.56	32.11	46.00	13.89	QP

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. : 3m chamber Data NO. :59
Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : HORIZONTAL
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8*CS&52%/ESCI Engineer : Tiger
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : RX CH78 2480MHz
Memo :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	136.70	11.89	0.78	42.30	28.08	43.50	15.42	QP
2	198.78	10.86	0.99	45.95	31.22	43.50	12.28	QP
3	237.58	12.06	1.07	50.67	37.33	46.00	8.67	QP
4	272.50	13.40	1.20	46.01	34.24	46.00	11.76	QP
5	315.18	14.31	1.27	44.20	33.30	46.00	12.70	QP
6	428.67	17.08	1.60	42.77	34.25	46.00	11.75	QP

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. : 3m chamber Data NO. :60
Dis. / Ant. : 3m 6112D(22251)-1404-3M Ant. pol. : VERTICAL
Limit : FCC PART 15 CLASS B
Env. / Ins. : 25.8*CS&52%/ESCI Engineer : Tiger
EUT : Desktop Audio system
M/N : TSX-B15
Power Rating : 120Vac/60Hz
Test Mode : RX CH78 2480MHz
Memo :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	19.71	0.22	42.41	34.84	40.00	5.16	QP
2	94.99	10.85	0.63	42.69	27.07	43.50	16.43	QP
3	124.09	14.37	0.74	43.01	31.17	43.50	12.33	QP
4	210.42	10.46	1.02	47.57	32.51	43.50	10.99	QP
5	246.31	12.72	1.09	48.13	35.50	46.00	10.50	QP
6	396.66	16.37	1.53	40.81	31.74	46.00	14.26	QP

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

4.7. Restricted Bands Measurement Results (For Above 1GHz)



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Tel:(0512) 63403993 Fax:(0512) 63403993

Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH0 2402MHz
Memo : DH1

Data NO. : 61
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.20	6.40	37.75	34.81	37.54	74.00	36.46	Peak
2	4804.00	32.86	9.10	34.94	34.34	42.56	74.00	31.44	Peak
3	7206.00	35.96	11.27	34.57	33.67	48.13	74.00	25.87	Peak
4	9608.00	37.77	13.53	32.81	33.82	50.29	74.00	23.71	Peak
5	11200.00	38.52	14.42	34.40	33.10	54.24	74.00	19.76	Peak
6	12430.00	39.14	14.72	32.29	29.95	56.20	74.00	17.80	Peak
7	12431.12	39.14	14.72	20.63	29.95	44.54	54.00	9.46	Average

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



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Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH0 2402MHz
Memo : DH1

Data NO. : 62
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.20	6.40	38.08	34.81	37.87	74.00	36.13	Peak
2	4804.00	32.86	9.10	34.94	34.34	42.56	74.00	31.44	Peak
3	7206.00	35.96	11.27	33.71	33.67	47.27	74.00	26.73	Peak
4	8380.00	37.33	12.19	35.39	33.22	51.69	74.00	22.31	Peak
5	9608.00	37.77	13.53	33.43	33.82	50.91	74.00	23.09	Peak
6	10840.00	38.34	13.91	34.11	33.71	52.65	74.00	21.35	Peak

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



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Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH39 2441MHz
Memo : DH1

Data NO. : 63
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.29	6.47	36.56	34.80	36.52	74.00	37.48	Peak
2	4882.00	33.01	9.20	34.84	34.33	42.72	74.00	31.28	Peak
3	7323.00	36.23	11.36	33.57	33.59	47.57	74.00	26.43	Peak
4	8500.00	37.40	12.24	33.20	33.24	49.60	74.00	24.40	Peak
5	9764.00	37.85	13.87	33.48	33.94	51.26	74.00	22.74	Peak
6	11035.00	38.42	14.27	33.03	33.50	52.22	74.00	21.78	Peak

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



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Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH39 2441MHz
Memo : DH1

Data NO. : 64
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.29	6.47	37.55	34.80	37.51	74.00	36.49	Peak
2	4882.00	33.01	9.20	35.16	34.33	43.04	74.00	30.96	Peak
3	5725.00	34.09	9.93	35.56	34.57	45.01	74.00	28.99	Peak
4	7323.00	36.23	11.36	33.93	33.59	47.93	74.00	26.07	Peak
5	8590.00	37.48	12.40	35.09	33.26	51.71	74.00	22.29	Peak
6	9764.00	37.85	13.87	34.02	33.94	51.80	74.00	22.20	Peak

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



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Tel:(0512) 63403993 Fax:(0512) 63403993

Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH78 2480MHz
Memo : DH1

Data NO. : 65
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.36	6.44	36.61	34.79	36.62	74.00	37.38	Peak
2	4960.00	33.13	9.21	35.34	34.32	43.36	74.00	30.64	Peak
3	7440.00	36.46	11.38	33.30	33.51	47.63	74.00	26.37	Peak
4	8620.00	37.50	12.46	34.80	33.27	51.49	74.00	22.51	Peak
5	9265.00	37.75	12.87	35.37	33.54	52.45	74.00	21.55	Peak
6	9920.00	37.95	13.48	34.63	34.06	52.00	74.00	22.00	Peak

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



Audix Technology(Wujiang)Co.,Ltd.
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
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Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH78 2480MHz
Memo : DH1

Data NO. : 66
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.36	6.44	36.71	34.79	36.72	74.00	37.28	Peak
2	4960.00	33.13	9.21	35.29	34.32	43.31	74.00	30.69	Peak
3	7440.00	36.46	11.38	35.21	33.51	49.54	74.00	24.46	Peak
4	8770.00	37.62	12.86	33.15	33.30	50.33	74.00	23.67	Peak
5	9920.00	37.95	13.48	33.48	34.06	50.85	74.00	23.15	Peak
6	10900.00	38.35	13.87	31.96	33.69	50.49	74.00	23.51	Peak

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



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Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH0 2402MHz
Memo : DH5

Data NO. : 67
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4735.00	32.74	8.99	36.07	34.34	43.46	74.00	30.54	Peak
2	5155.00	33.44	9.39	36.68	34.37	45.14	74.00	28.86	Peak
3	6400.00	34.28	10.60	38.35	34.31	48.92	74.00	25.08	Peak
4	8515.00	37.42	12.29	35.81	33.25	52.27	74.00	21.73	Peak
5	10225.00	38.08	13.49	34.59	34.01	52.15	74.00	21.85	Peak
6	11305.00	38.58	14.38	33.87	32.83	54.00	74.00	20.00	Peak

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



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Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH0 2402MHz
Memo : DH5

Data NO. : 68
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5110.00	33.37	9.31	37.03	34.36	45.35	74.00	28.65	Peak
2	6460.00	34.29	10.64	35.80	34.27	46.46	74.00	27.54	Peak
3	7630.00	36.74	11.49	35.34	33.39	50.18	74.00	23.82	Peak
4	9025.00	37.79	12.75	35.30	33.36	52.48	74.00	21.52	Peak
5	9835.00	37.90	13.99	34.47	33.98	52.38	74.00	21.62	Peak
6	10855.00	38.34	13.91	33.84	33.71	52.38	74.00	21.62	Peak

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



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Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH39 2441MHz
Memo : DH5

Data NO. : 69
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5080.00	33.32	9.34	37.06	34.35	45.37	74.00	28.63	Peak
2	5875.00	34.15	10.02	35.54	34.63	45.08	74.00	28.92	Peak
3	7375.00	36.32	11.31	35.04	33.56	49.11	74.00	24.89	Peak
4	7780.00	36.90	11.69	35.19	33.30	50.48	74.00	23.52	Peak
5	8755.00	37.62	12.64	36.05	33.29	53.02	74.00	20.98	Peak
6	9910.00	37.95	13.75	33.93	34.04	51.59	74.00	22.41	Peak

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



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Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH39 2441MHz
Memo : DH5

Data NO. : 70
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5755.00	34.10	9.94	37.05	34.58	46.51	74.00	27.49	Peak
2	7390.00	36.37	11.38	36.02	33.54	50.23	74.00	23.77	Peak
3	8410.00	37.36	12.26	36.91	33.23	53.30	74.00	20.70	Peak
4	9670.00	37.80	13.70	35.17	33.86	52.81	74.00	21.19	Peak
5	10780.00	38.31	13.74	34.49	33.74	52.80	74.00	21.20	Peak
6	11500.00	38.70	14.31	34.17	32.29	54.89	74.00	19.11	Peak

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



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Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH78 2480MHz
Memo : DH5

Data NO. : 71
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5935.00	34.17	10.11	38.21	34.65	47.84	74.00	26.16	Peak
2	7510.00	36.62	11.43	36.72	33.47	51.30	74.00	22.70	Peak
3	9055.00	37.79	12.59	34.84	33.38	51.84	74.00	22.16	Peak
4	9790.00	37.87	13.90	36.01	33.96	53.82	74.00	20.18	Peak
5	11065.00	38.44	14.33	34.60	33.44	53.93	74.00	20.07	Peak
6	11785.00	39.07	14.63	33.83	31.54	55.99	74.00	18.01	Peak

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



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Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH78 2480MHz
Memo : DH5

Data NO. : 72
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5230.00	33.56	9.51	39.81	34.40	48.48	74.00	25.52	Peak
2	6295.00	34.26	10.54	37.66	34.40	48.06	74.00	25.94	Peak
3	7855.00	36.96	11.89	34.57	33.25	50.17	74.00	23.83	Peak
4	8950.00	37.76	12.67	34.68	33.33	51.78	74.00	22.22	Peak
5	9835.00	37.90	13.99	36.03	33.98	53.94	74.00	20.06	Peak
6	11215.00	38.52	14.41	35.01	33.03	54.91	74.00	19.09	Peak

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



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Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CHO 2402MHz
Memo : 3DH1

Data NO. : 73
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.20	6.40	37.37	34.81	37.16	74.00	36.84	Peak
2	4804.00	32.86	9.10	35.72	34.34	43.34	74.00	30.66	Peak
3	7206.00	35.96	11.27	33.81	33.67	47.37	74.00	26.63	Peak
4	8515.00	37.42	12.29	34.81	33.25	51.27	74.00	22.73	Peak
5	9608.00	37.77	13.53	32.83	33.82	50.31	74.00	23.69	Peak
6	10435.00	38.16	13.65	33.89	33.91	51.79	74.00	22.21	Peak

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



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Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CHO 2402MHz
Memo : 3DH1

Data NO. : 74
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.20	6.40	36.93	34.81	36.72	74.00	37.28	Peak
2	4804.00	32.86	9.10	35.20	34.34	42.82	74.00	31.18	Peak
3	7206.00	35.96	11.27	33.10	33.67	46.66	74.00	27.34	Peak
4	8500.00	37.40	12.24	33.61	33.24	50.01	74.00	23.99	Peak
5	9608.00	37.77	13.53	33.18	33.82	50.66	74.00	23.34	Peak
6	10840.00	38.34	13.91	32.17	33.71	50.71	74.00	23.29	Peak

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



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Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH39 2441MHz
Memo : 3DH1

Data NO. : 75
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.29	6.47	36.60	34.80	36.56	74.00	37.44	Peak
2	4882.00	33.01	9.20	35.26	34.33	43.14	74.00	30.86	Peak
3	7323.00	36.23	11.36	33.43	33.59	47.43	74.00	26.57	Peak
4	8740.00	37.60	12.64	33.34	33.29	50.29	74.00	23.71	Peak
5	9764.00	37.85	13.87	34.07	33.94	51.85	74.00	22.15	Peak
6	11155.00	38.48	14.33	32.76	33.23	52.34	74.00	21.66	Peak

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



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Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH39 2441MHz
Memo : 3DH1

Data NO. : 76
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.29	6.47	37.06	34.80	37.02	74.00	36.98	Peak
2	4882.00	33.01	9.20	34.68	34.33	42.56	74.00	31.44	Peak
3	7323.00	36.23	11.36	34.71	33.59	48.71	74.00	25.29	Peak
4	8995.00	37.80	12.69	34.08	33.34	51.23	74.00	22.77	Peak
5	9764.00	37.85	13.87	33.85	33.94	51.63	74.00	22.37	Peak
6	11080.00	38.44	14.33	33.04	33.44	52.37	74.00	21.63	Peak

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



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Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH79 2480MHz
Memo : 3DH1

Data NO. : 77
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.36	6.44	35.63	34.79	35.64	74.00	38.36	Peak
2	4960.00	33.13	9.21	35.66	34.32	43.68	74.00	30.32	Peak
3	7440.00	36.46	11.38	35.06	33.51	49.39	74.00	24.61	Peak
4	8830.00	37.68	12.71	34.90	33.31	51.98	74.00	22.02	Peak
5	9920.00	37.95	13.48	33.62	34.06	50.99	74.00	23.01	Peak
6	11305.00	38.58	14.38	33.08	32.83	53.21	74.00	20.79	Peak

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



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Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH79 2480MHz
Memo : 3DH1

Data NO. : 78
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.36	6.44	37.22	34.79	37.23	74.00	36.77	Peak
2	4960.00	33.13	9.21	36.22	34.32	44.24	74.00	29.76	Peak
3	7440.00	36.46	11.38	33.83	33.51	48.16	74.00	25.84	Peak
4	8935.00	37.76	12.71	34.93	33.33	52.07	74.00	21.93	Peak
5	9920.00	37.95	13.48	33.30	34.06	50.67	74.00	23.33	Peak
6	11185.00	38.50	14.37	33.95	33.17	53.65	74.00	20.35	Peak

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



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Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH0 2402MHz
Memo : 3DH5

Data NO. : 79
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.20	6.40	38.44	34.81	38.23	74.00	35.77	Peak
2	4804.00	32.86	9.10	34.34	34.34	41.96	74.00	32.04	Peak
3	7206.00	35.96	11.27	33.72	33.67	47.28	74.00	26.72	Peak
4	8500.00	37.40	12.24	34.02	33.24	50.42	74.00	23.58	Peak
5	9608.00	37.77	13.53	32.57	33.82	50.05	74.00	23.95	Peak
6	11155.00	38.48	14.33	32.44	33.23	52.02	74.00	21.98	Peak

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



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No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH0 2402MHz
Memo : 3DH5

Data NO. : 80
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.20	6.40	37.67	34.81	37.46	74.00	36.54	Peak
2	4804.00	32.86	9.10	34.51	34.34	42.13	74.00	31.87	Peak
3	7206.00	35.96	11.27	34.20	33.67	47.76	74.00	26.24	Peak
4	8500.00	37.40	12.24	34.57	33.24	50.97	74.00	23.03	Peak
5	9608.00	37.77	13.53	32.92	33.82	50.40	74.00	23.60	Peak
6	11125.00	38.48	14.38	33.79	33.30	53.35	74.00	20.65	Peak

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



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Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH39 2441MHz
Memo : 3DH5

Data NO. : 81
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.29	6.47	35.84	34.80	35.80	74.00	38.20	Peak
2	4882.00	33.01	9.20	35.15	34.33	43.03	74.00	30.97	Peak
3	7323.00	36.23	11.36	34.55	33.59	48.55	74.00	25.45	Peak
4	8695.00	37.56	12.56	33.40	33.28	50.24	74.00	23.76	Peak
5	9764.00	37.85	13.87	34.43	33.94	52.21	74.00	21.79	Peak
6	11095.00	38.46	14.44	32.15	33.37	51.68	74.00	22.32	Peak

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



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Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH39 2441MHz
Memo : 3DH5

Data NO. : 82
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.29	6.47	35.88	34.80	35.84	74.00	38.16	Peak
2	4882.00	33.01	9.20	34.52	34.33	42.40	74.00	31.60	Peak
3	7323.00	36.23	11.36	33.82	33.59	47.82	74.00	26.18	Peak
4	8500.00	37.40	12.24	33.86	33.24	50.26	74.00	23.74	Peak
5	9764.00	37.85	13.87	34.18	33.94	51.96	74.00	22.04	Peak
6	11350.00	38.60	14.22	31.56	32.69	51.69	74.00	22.31	Peak

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



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Site NO. : 3m Semi-Anechoic Chamber
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Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH78 2480MHz
Memo : 3DH5

Data NO. : 83
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.36	6.44	36.38	34.79	36.39	74.00	37.61	Peak
2	4960.00	33.13	9.21	35.50	34.32	43.52	74.00	30.48	Peak
3	7440.00	36.46	11.38	34.31	33.51	48.64	74.00	25.36	Peak
4	8875.00	37.70	12.61	33.10	33.32	50.09	74.00	23.91	Peak
5	9920.00	37.95	13.48	36.01	34.06	53.38	74.00	20.62	Peak
6	10825.00	38.33	13.64	32.36	33.73	50.60	74.00	23.40	Peak

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



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Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : TX CH78 2480MHz
Memo : 3DH5

Data NO. : 84
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.36	6.44	35.97	34.79	35.98	74.00	38.02	Peak
2	4960.00	33.13	9.21	35.22	34.32	43.24	74.00	30.76	Peak
3	7440.00	36.46	11.38	34.44	33.51	48.77	74.00	25.23	Peak
4	9175.00	37.76	12.76	34.30	33.48	51.34	74.00	22.66	Peak
5	9920.00	37.95	13.48	34.11	34.06	51.48	74.00	22.52	Peak
6	11350.00	38.60	14.22	32.53	32.69	52.66	74.00	21.34	Peak

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



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Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : RX CHO 2402MHz
Memo :

Data NO. : 85
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.20	6.40	37.48	34.81	37.27	74.00	36.73	Peak
2	4804.00	32.86	9.10	36.01	34.34	43.63	74.00	30.37	Peak
3	7206.00	35.96	11.27	34.06	33.67	47.62	74.00	26.38	Peak
4	8545.00	37.44	12.30	33.47	33.25	49.96	74.00	24.04	Peak
5	9608.00	37.77	13.53	33.27	33.82	50.75	74.00	23.25	Peak
6	11050.00	38.42	14.27	34.00	33.50	53.19	74.00	20.81	Peak

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



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Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : RX CHO 2402MHz
Memo :

Data NO. : 86
Ant. pol. : VERTICAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	28.20	6.40	37.85	34.81	37.64	74.00	36.36	Peak
2	4804.00	32.86	9.10	35.11	34.34	42.73	74.00	31.27	Peak
3	7206.00	35.96	11.27	34.10	33.67	47.66	74.00	26.34	Peak
4	9055.00	37.79	12.59	34.94	33.38	51.94	74.00	22.06	Peak
5	9608.00	37.77	13.53	33.46	33.82	50.94	74.00	23.06	Peak
6	11350.00	38.60	14.22	31.94	32.69	52.07	74.00	21.93	Peak

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



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Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : RX CH78 2480MHz
Memo :
Data NO. : 87
Ant. pol. : HORIZONTAL
Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.36	6.44	36.91	34.79	36.92	74.00	37.08	Peak
2	4960.00	33.13	9.21	35.71	34.32	43.73	74.00	30.27	Peak
3	7440.00	36.46	11.38	34.69	33.51	49.02	74.00	24.98	Peak
4	9190.00	37.76	12.76	36.37	33.48	53.41	74.00	20.59	Peak
5	9920.00	37.95	13.48	32.98	34.06	50.35	74.00	23.65	Peak
6	11155.00	38.48	14.33	33.71	33.23	53.29	74.00	20.71	Peak

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



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Dis. / Ant. : 3m 3115-62593-130528
Limit : FCC PART 15 C PK
Env. / Ins. : 24.1°C&52%/N9030A
EUT : Desktop Audio System
M/N : TSX-B15
Power Rating: 120Vac/60Hz
Test Mode : RX CH78 2480MHz
Memo :
Data NO. : 88
Ant. pol. : VERTICAL
Engineer : Tiger

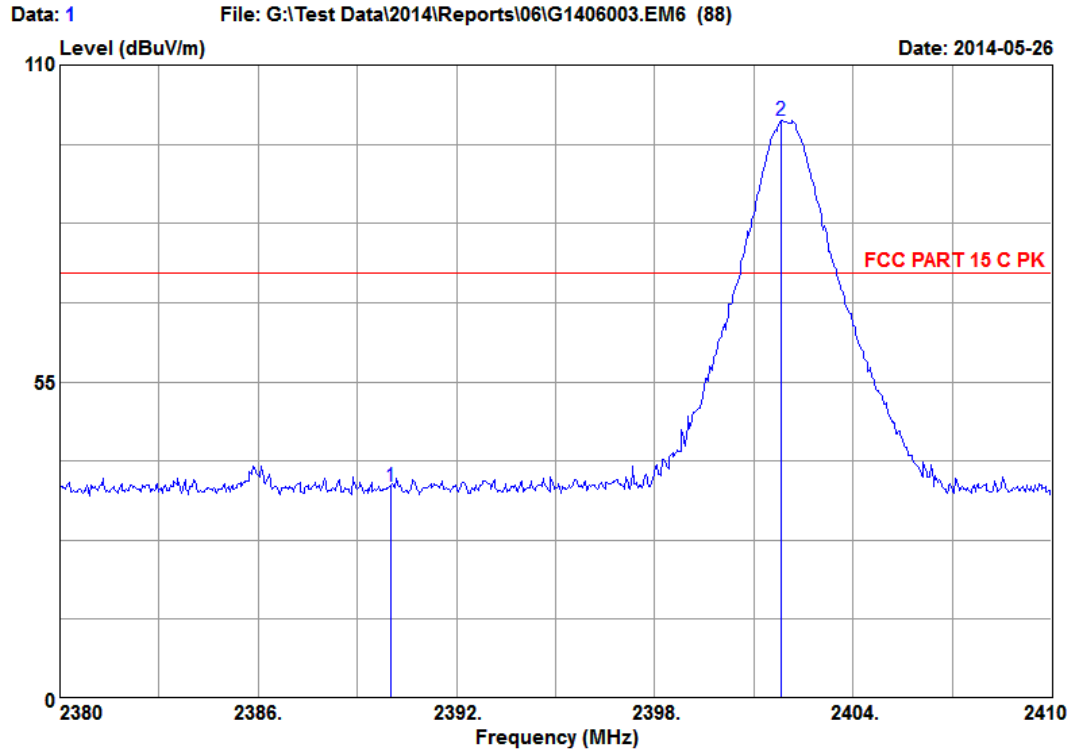
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.36	6.44	36.13	34.79	36.14	74.00	37.86	Peak
2	4960.00	33.13	9.21	34.83	34.32	42.85	74.00	31.15	Peak
3	7440.00	36.46	11.38	33.44	33.51	47.77	74.00	26.23	Peak
4	9055.00	37.79	12.59	34.28	33.38	51.28	74.00	22.72	Peak
5	9920.00	37.95	13.48	33.10	34.06	50.47	74.00	23.53	Peak
6	11125.00	38.48	14.38	33.40	33.30	52.96	74.00	21.04	Peak

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

4.8. Spurious Emission Measurement Results in Band Edge Emission (FCC Part 15, 15.205)



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Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*CS52/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : DH1

Data NO. : 1
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

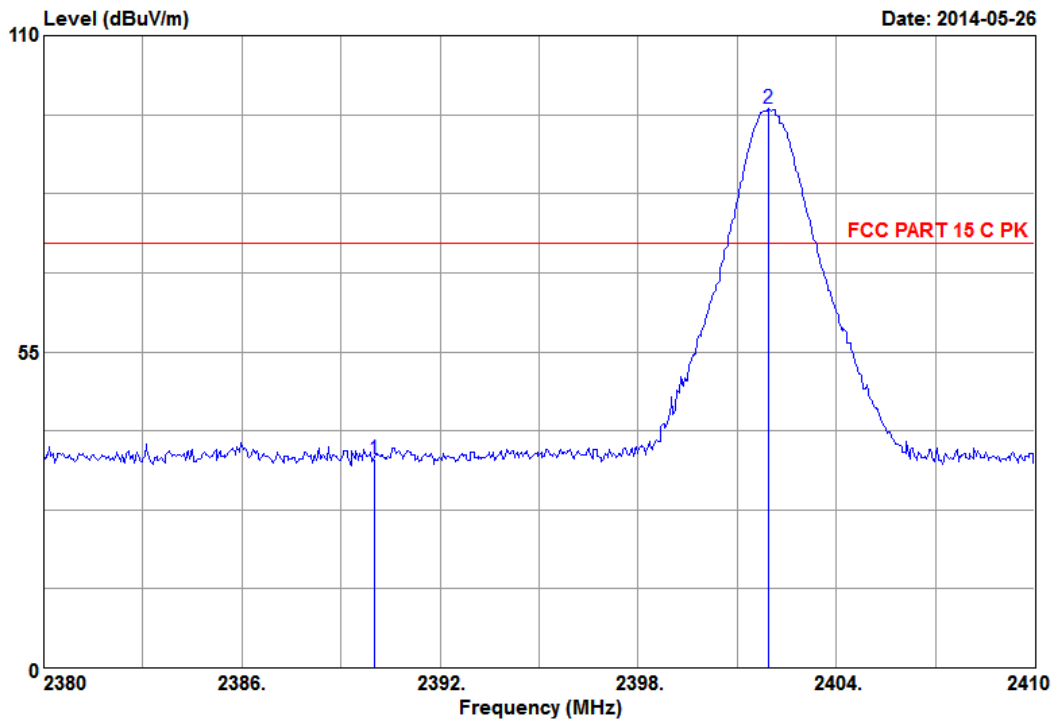
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.17	6.40	37.05	34.81	36.81	74.00	37.19	Peak
2	2401.81	28.20	6.40	100.62	34.81	100.41	74.00	-26.41	Peak

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



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Data: 2 File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : DH1

Data NO. : 2
 Ant. pol. : VERTICAL
 Engineer : Tiger

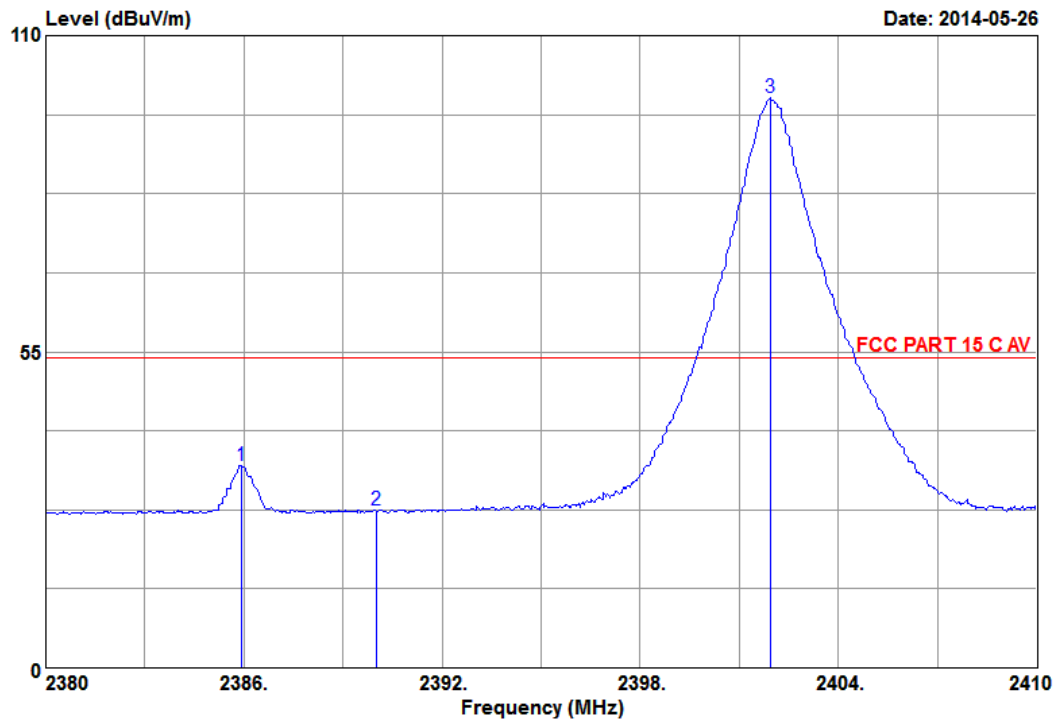
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.17	6.40	36.56	34.81	36.32	74.00	37.68	Peak
2	2401.93	28.20	6.40	97.44	34.81	97.23	74.00	-23.23	Peak

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



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Data: 3 File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : DH1

Data NO. : 3
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

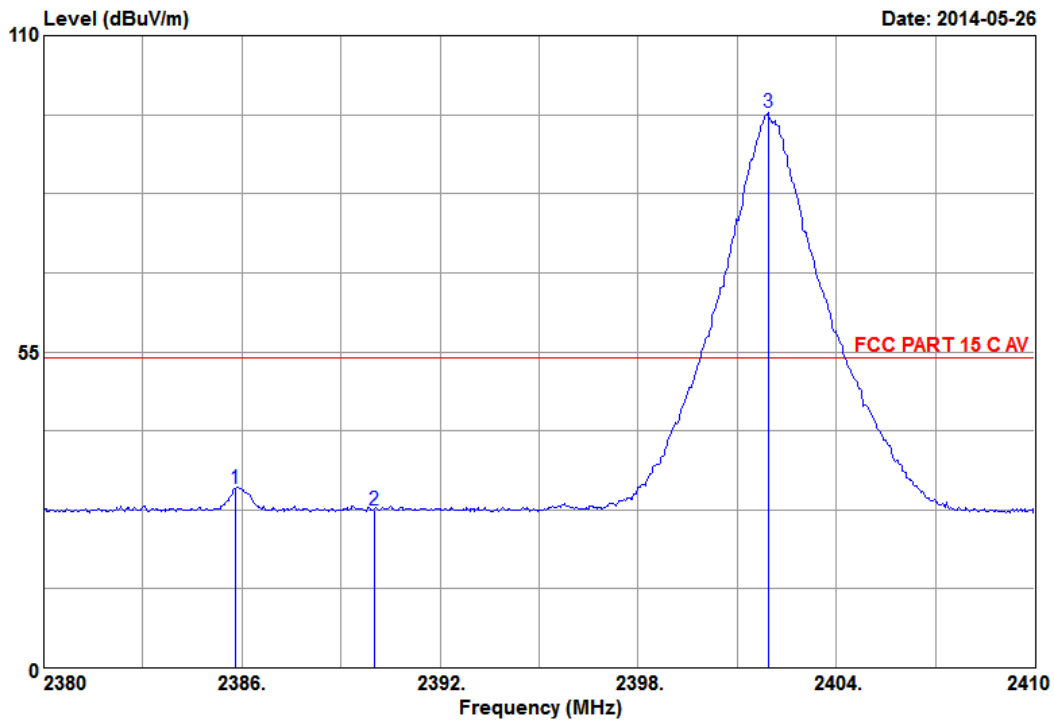
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.94	28.17	6.44	35.32	34.82	35.11	54.00	18.89	Average
2	2390.00	28.17	6.40	27.60	34.81	27.36	54.00	26.64	Average
3	2401.93	28.20	6.40	99.32	34.81	99.11	54.00	-45.11	Average

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



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Data: 4 File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : DH1

Data NO. : 4
 Ant. pol. : VERTICAL
 Engineer : Tiger

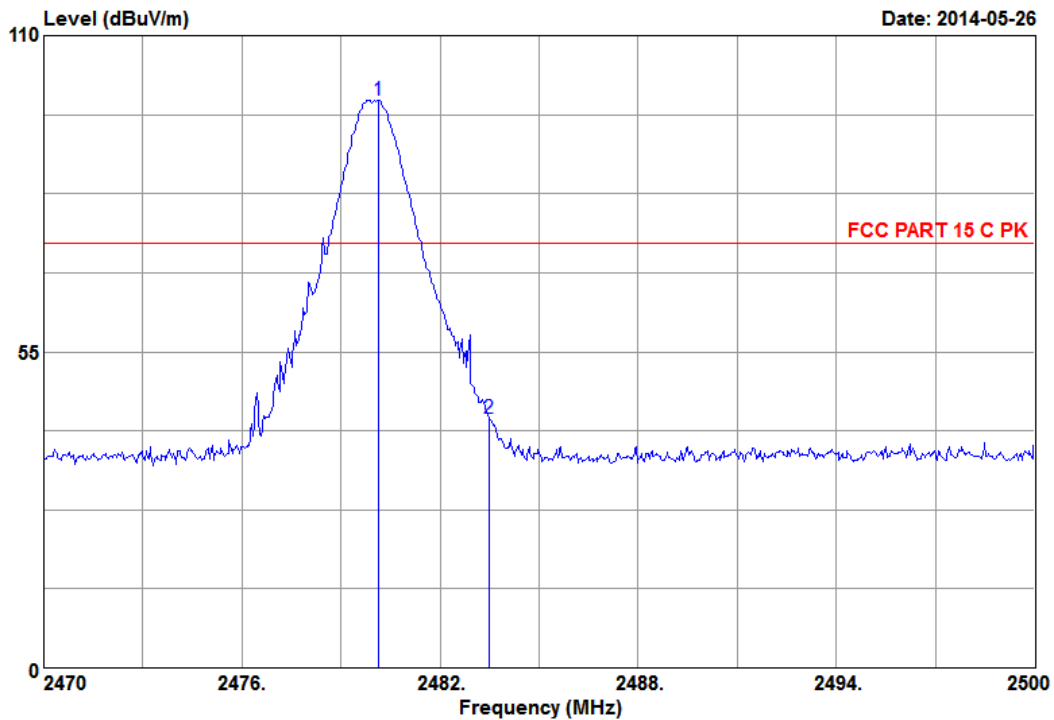
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamplifier Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.82	28.17	6.44	31.51	34.82	31.30	54.00	22.70	Average
2	2390.00	28.17	6.40	27.76	34.81	27.52	54.00	26.48	Average
3	2401.93	28.20	6.40	96.77	34.81	96.56	54.00	-42.56	Average

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



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Data: 5 File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : DH1

Data NO. : 5
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

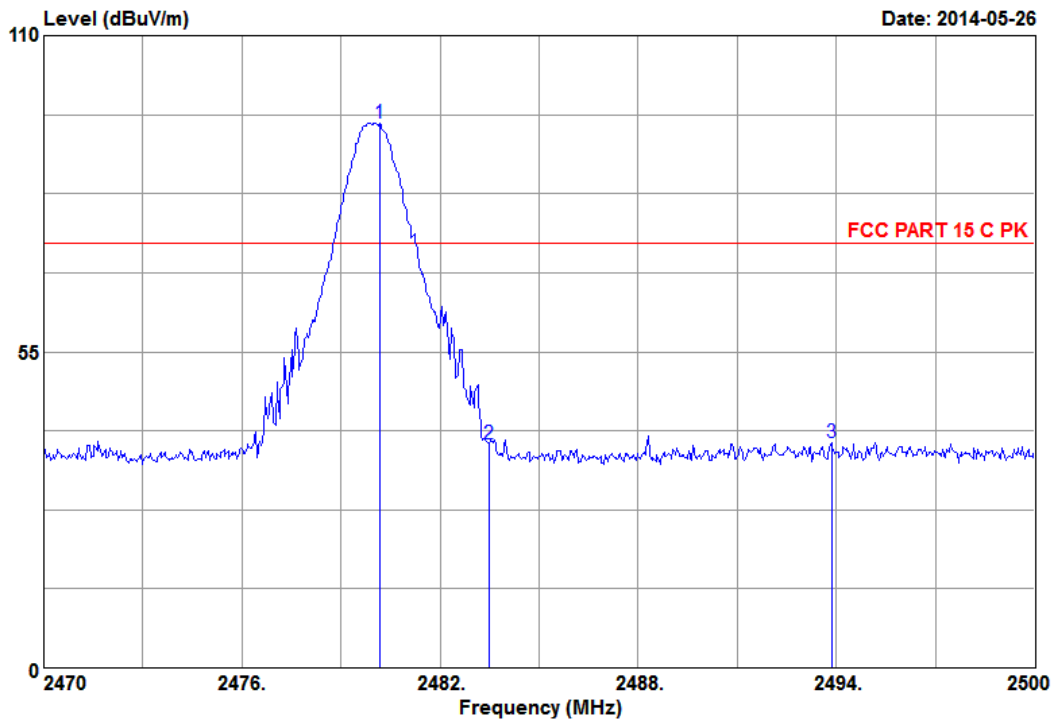
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.14	28.36	6.44	98.81	34.79	98.82	74.00	-24.82	Peak
2	2483.50	28.37	6.44	43.31	34.79	43.33	74.00	30.67	Peak

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



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Data: 6 File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : DH1

Data NO. : 6
 Ant. pol. : VERTICAL
 Engineer : Tiger

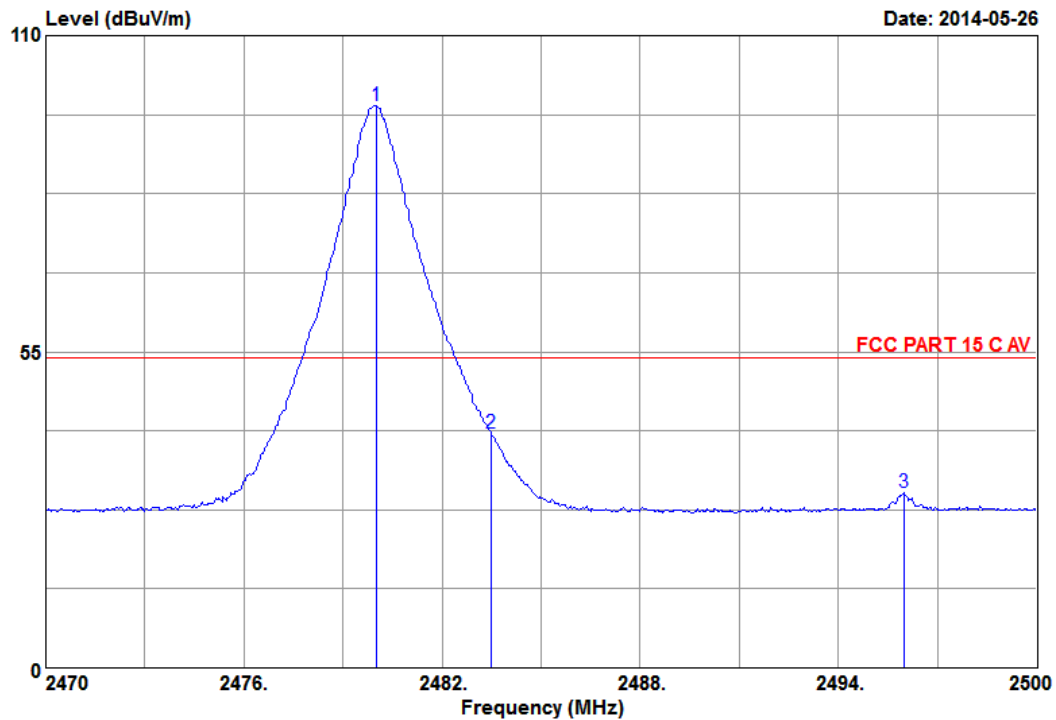
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.17	28.36	6.44	94.87	34.79	94.88	74.00	-20.88	Peak
2	2483.50	28.37	6.44	38.81	34.79	38.83	74.00	35.17	Peak
3	2493.85	28.39	6.56	39.05	34.78	39.22	74.00	34.78	Peak

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



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Data: 7 File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : DH1

Data NO. : 7
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.02	28.36	6.44	97.91	34.79	97.92	54.00	-43.92	Average
2	2483.50	28.37	6.44	40.86	34.79	40.88	54.00	13.12	Average
3	2495.98	28.39	6.56	30.38	34.78	30.55	54.00	23.45	Average

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

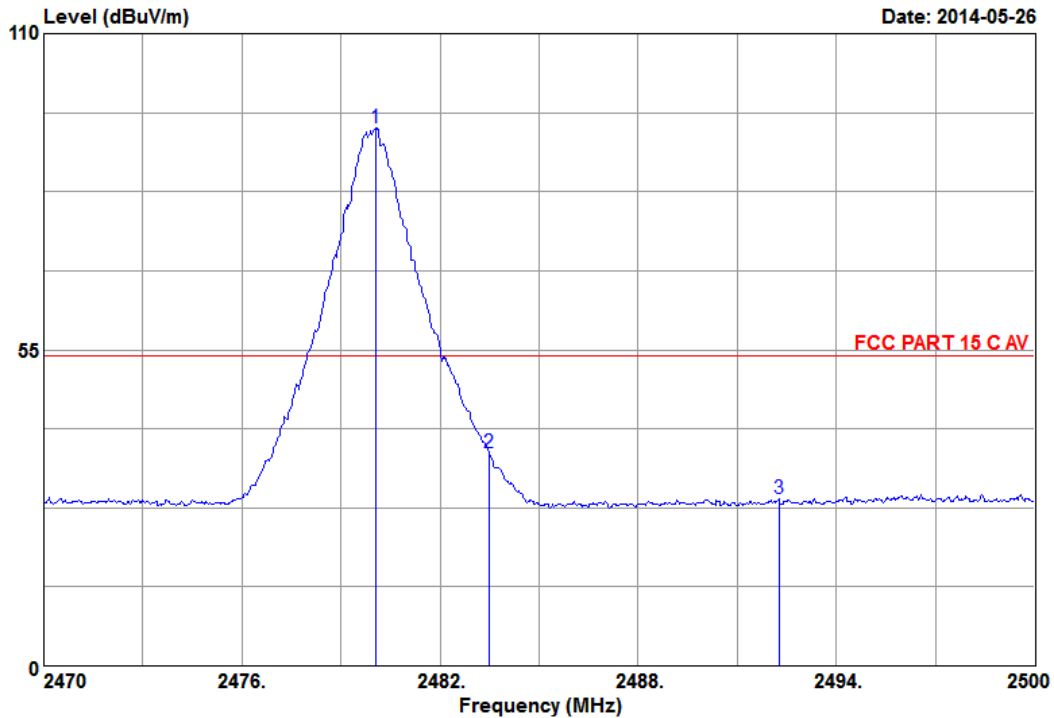


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Data: 8

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : DH1

Data NO. : 8
 Ant. pol. : VERTICAL
 Engineer : Tiger

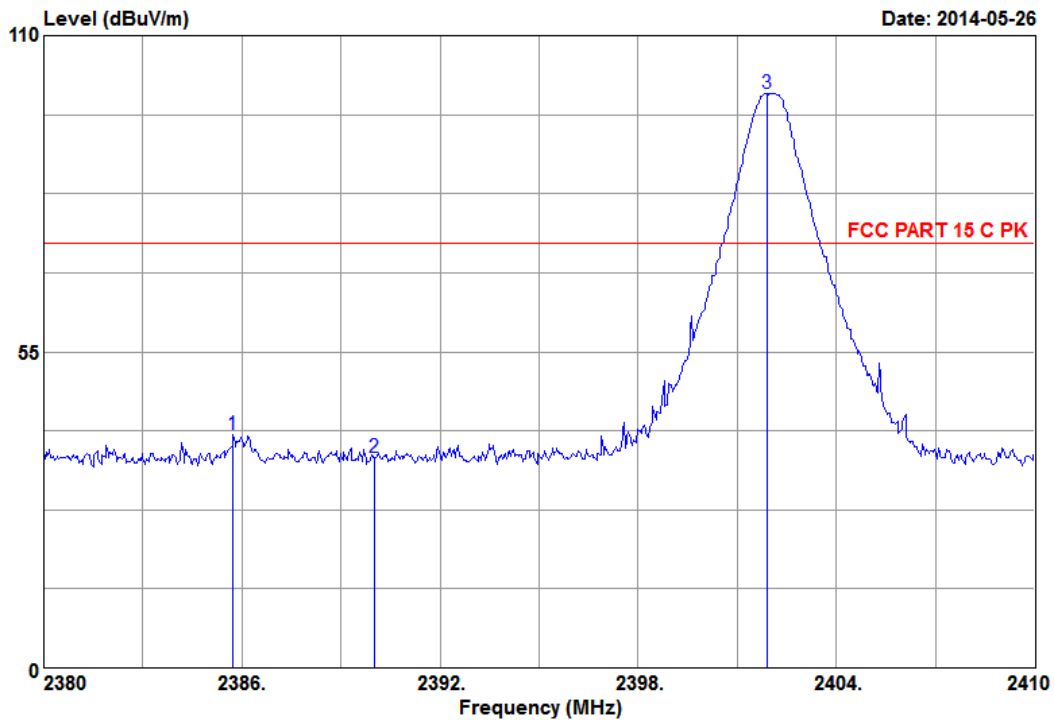
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.05	28.36	6.44	93.68	34.79	93.69	54.00	-39.69	Average
2	2483.50	28.37	6.44	37.03	34.79	37.05	54.00	16.95	Average
3	2492.26	28.39	6.56	28.99	34.78	29.16	54.00	24.84	Average

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



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Data: 9 File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1°C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : DH5

Data NO. : 9
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.73	28.17	6.44	40.74	34.82	40.53	74.00	33.47	Peak
2	2390.00	28.17	6.40	36.91	34.81	36.67	74.00	37.33	Peak
3	2401.90	28.20	6.40	100.13	34.81	99.92	74.00	-25.92	Peak

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

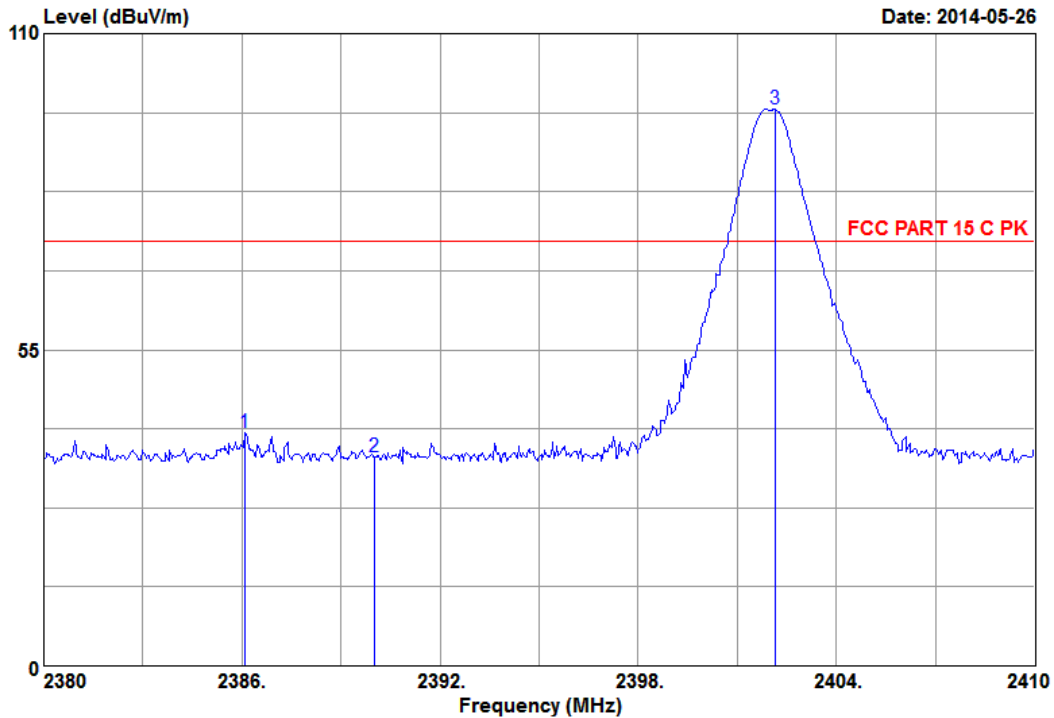


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Data: 10

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : DH5

Data NO. : 10
 Ant. pol. : VERTICAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2386.09	28.17	6.44	40.72	34.82	40.51	74.00	33.49	Peak
2	2390.00	28.17	6.40	36.71	34.81	36.47	74.00	37.53	Peak
3	2402.14	28.20	6.40	97.10	34.81	96.89	74.00	-22.89	Peak

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

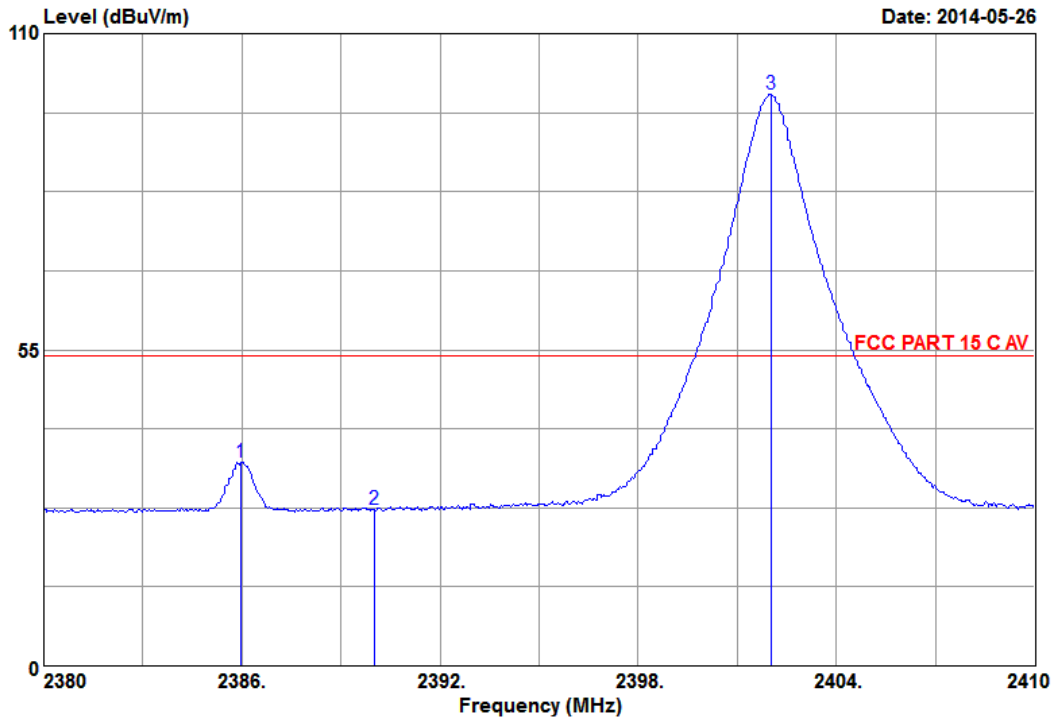


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Data: 11

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Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : DH5

Data NO. : 11
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.97	28.17	6.44	35.71	34.82	35.50	54.00	18.50	Average
2	2390.00	28.17	6.40	27.40	34.81	27.16	54.00	26.84	Average
3	2402.02	28.20	6.40	99.61	34.81	99.40	54.00	-45.40	Average

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

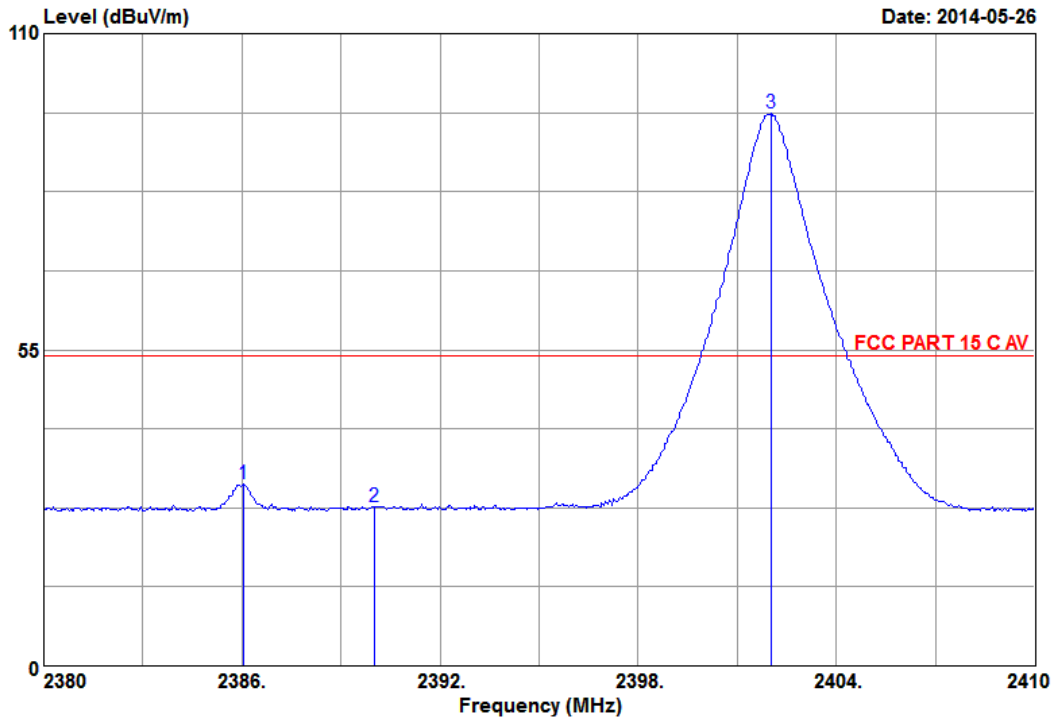


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Data: 12

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : DH5

Data NO. : 12
 Ant. pol. : VERTICAL
 Engineer : Tiger

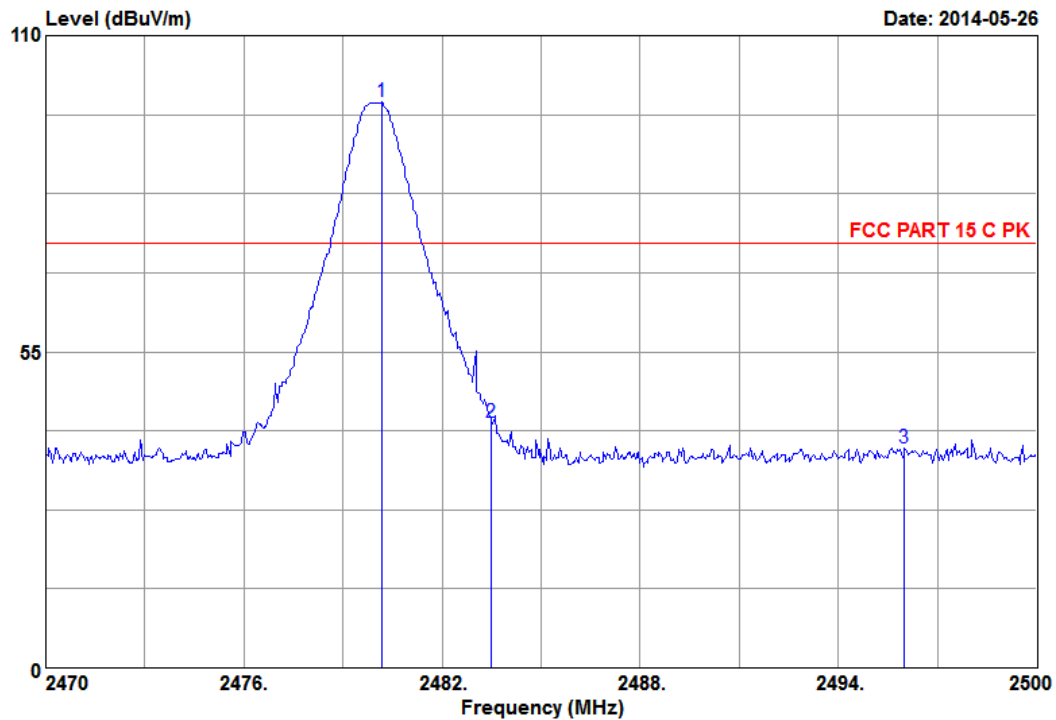
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2386.06	28.17	6.44	31.83	34.82	31.62	54.00	22.38	Average
2	2390.00	28.17	6.40	27.85	34.81	27.61	54.00	26.39	Average
3	2402.02	28.20	6.40	96.28	34.81	96.07	54.00	-42.07	Average

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



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Data: 13 File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : DH5

Data NO. : 13
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.17	28.36	6.44	98.46	34.79	98.47	74.00	-24.47	Peak
2	2483.50	28.37	6.44	42.78	34.79	42.80	74.00	31.20	Peak
3	2496.01	28.39	6.56	38.13	34.78	38.30	74.00	35.70	Peak

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

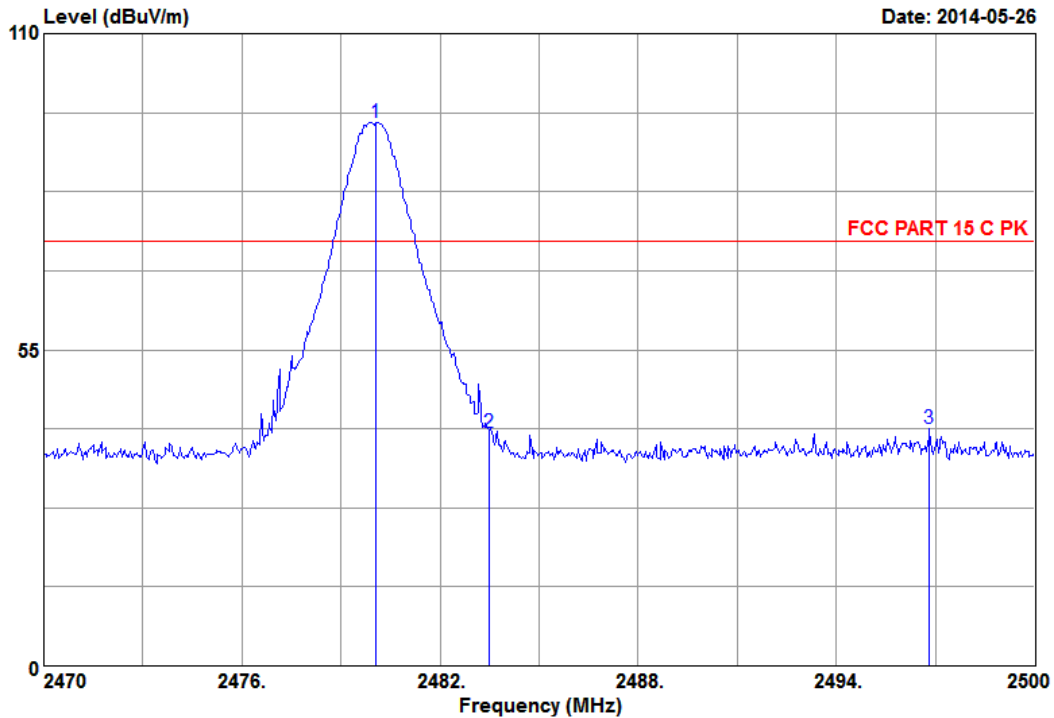


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Data: 14

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Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : DH5

Data NO. : 14
 Ant. pol. : VERTICAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.05	28.36	6.44	94.55	34.79	94.56	74.00	-20.56	Peak
2	2483.50	28.37	6.44	40.59	34.79	40.61	74.00	33.39	Peak
3	2496.82	28.40	6.56	41.09	34.78	41.27	74.00	32.73	Peak

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

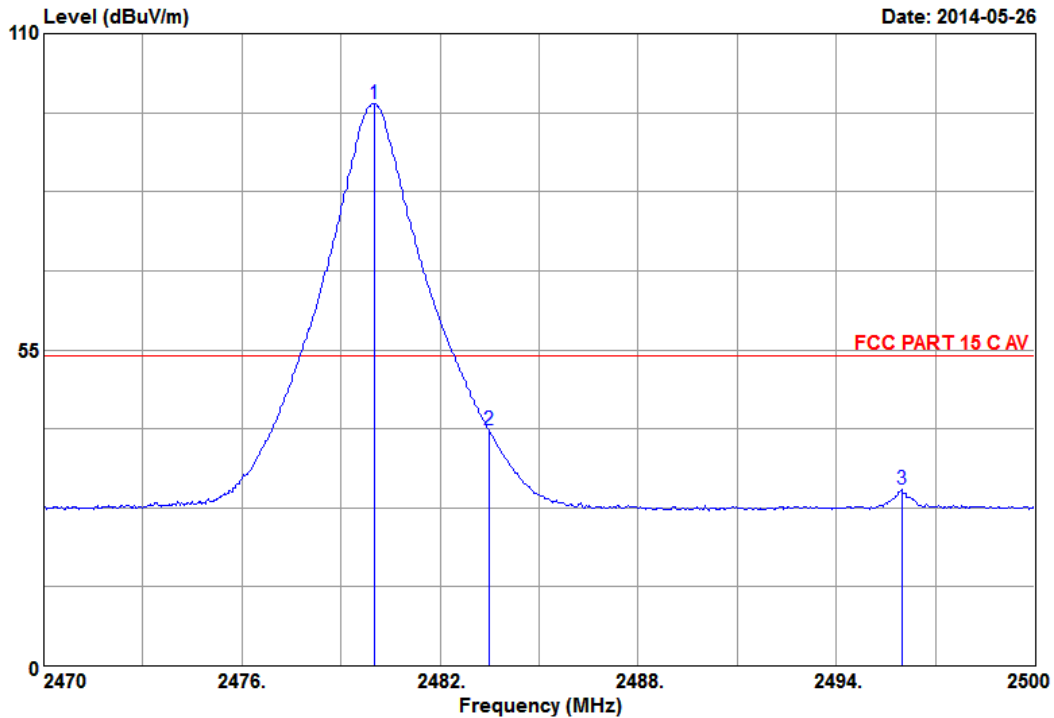


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Data: 15

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Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : DH5

Data NO. : 15
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.02	28.36	6.44	97.86	34.79	97.87	54.00	-43.87	Average
2	2483.50	28.37	6.44	40.98	34.79	41.00	54.00	13.00	Average
3	2495.98	28.39	6.56	30.46	34.78	30.63	54.00	23.37	Average

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

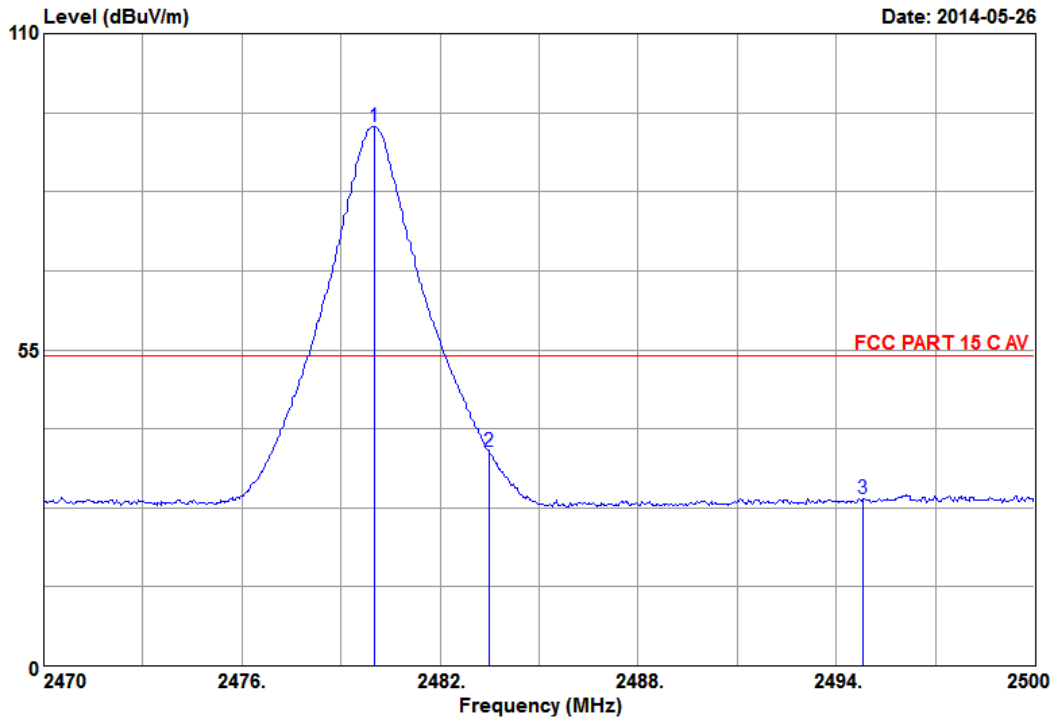


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Data: 16

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : DH5

Data NO. : 16
 Ant. pol. : VERTICAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.02	28.36	6.44	93.92	34.79	93.93	54.00	-39.93	Average
2	2483.50	28.37	6.44	37.31	34.79	37.33	54.00	16.67	Average
3	2494.81	28.39	6.56	28.92	34.78	29.09	54.00	24.91	Average

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

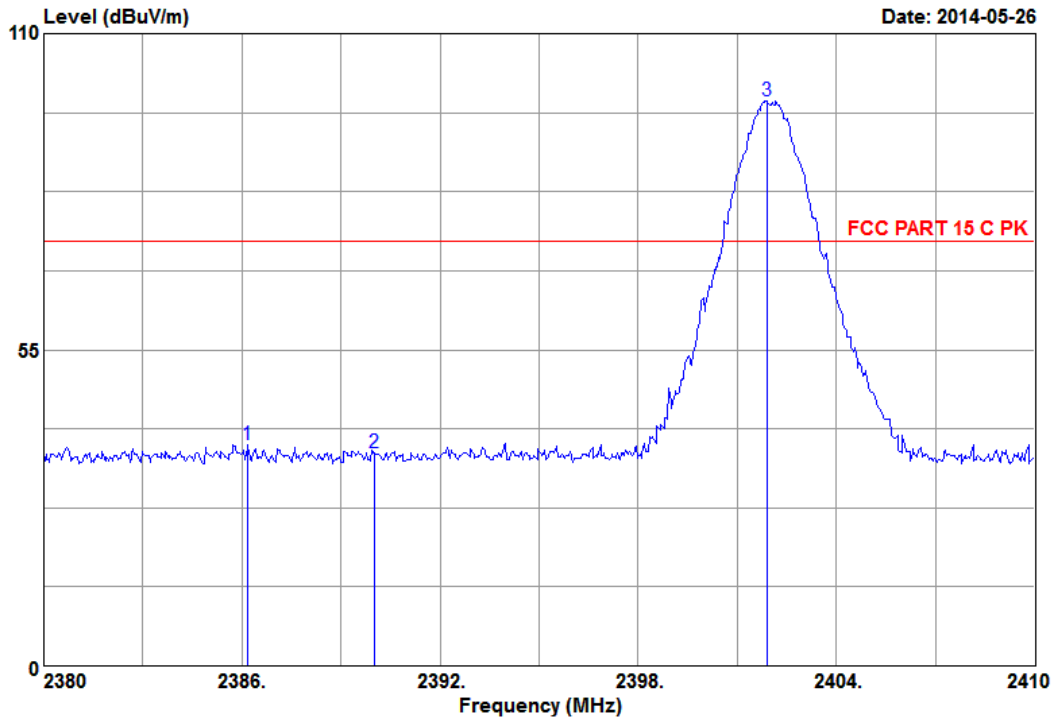


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Data: 17

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : 3DH1

Data NO. : 17
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2386.18	28.17	6.44	38.75	34.82	38.54	74.00	35.46	Peak
2	2390.00	28.17	6.40	37.39	34.81	37.15	74.00	36.85	Peak
3	2401.90	28.20	6.40	98.52	34.81	98.31	74.00	-24.31	Peak

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

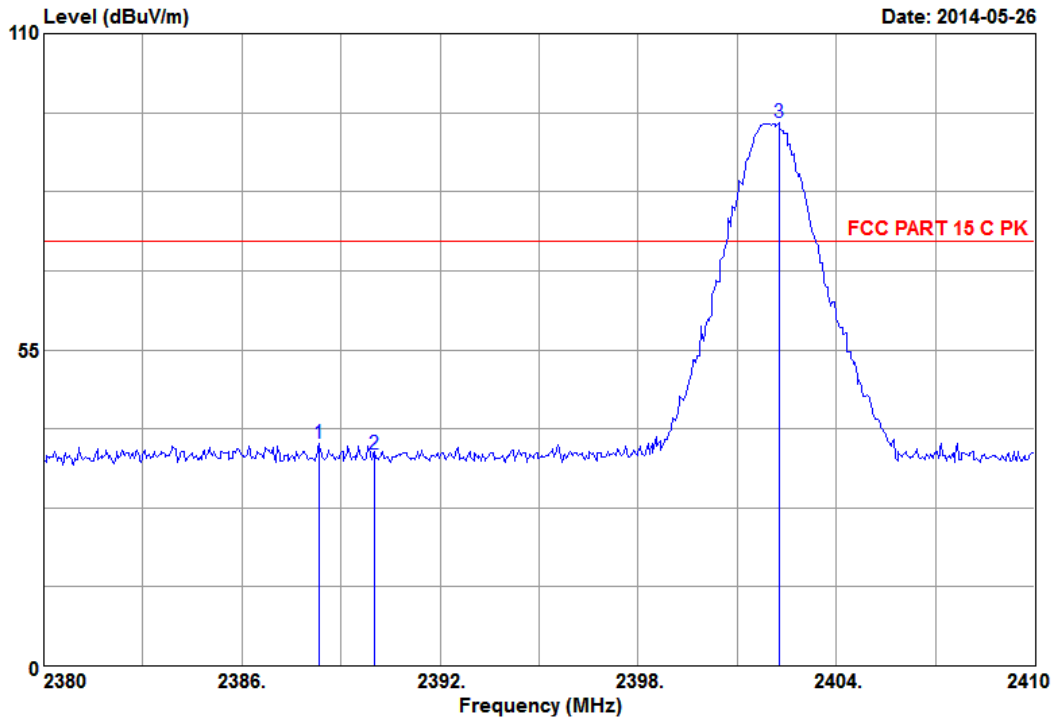


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Data: 18

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : 3DH1

Data NO. : 18
 Ant. pol. : VERTICAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.34	28.17	6.44	38.86	34.82	38.65	74.00	35.35	Peak
2	2390.00	28.17	6.40	37.12	34.81	36.88	74.00	37.12	Peak
3	2402.26	28.20	6.40	94.78	34.81	94.57	74.00	-20.57	Peak

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

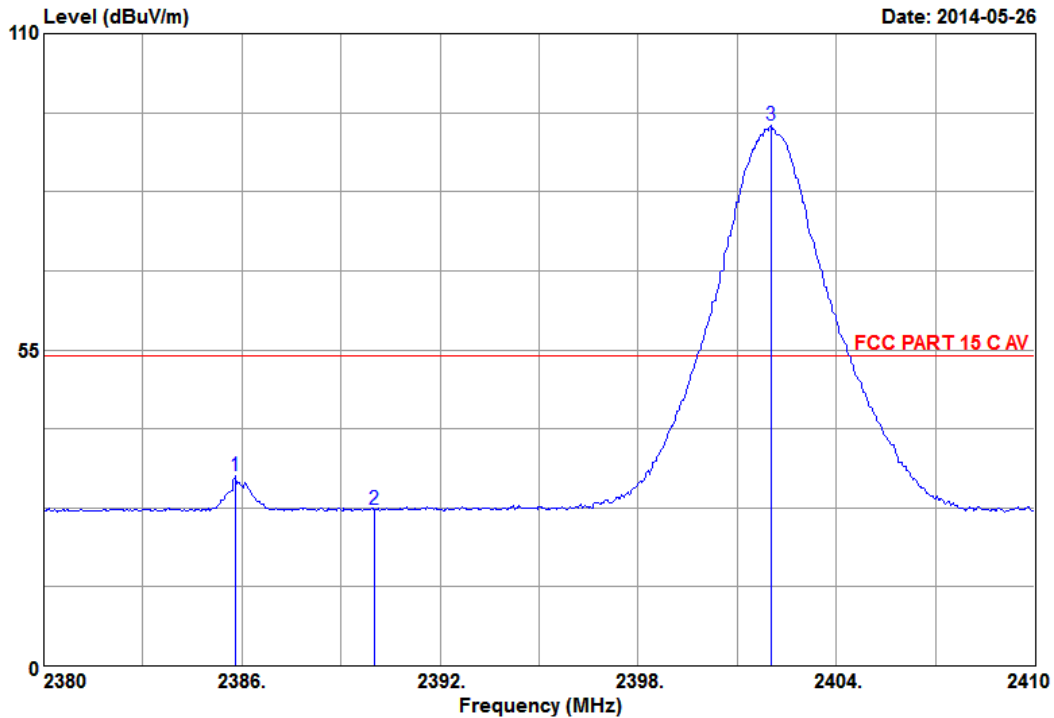


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Data: 19

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Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : 3DH1

Data NO. : 19
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.82	28.17	6.44	33.20	34.82	32.99	54.00	21.01	Average
2	2390.00	28.17	6.40	27.54	34.81	27.30	54.00	26.70	Average
3	2402.02	28.20	6.40	94.33	34.81	94.12	54.00	-40.12	Average

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

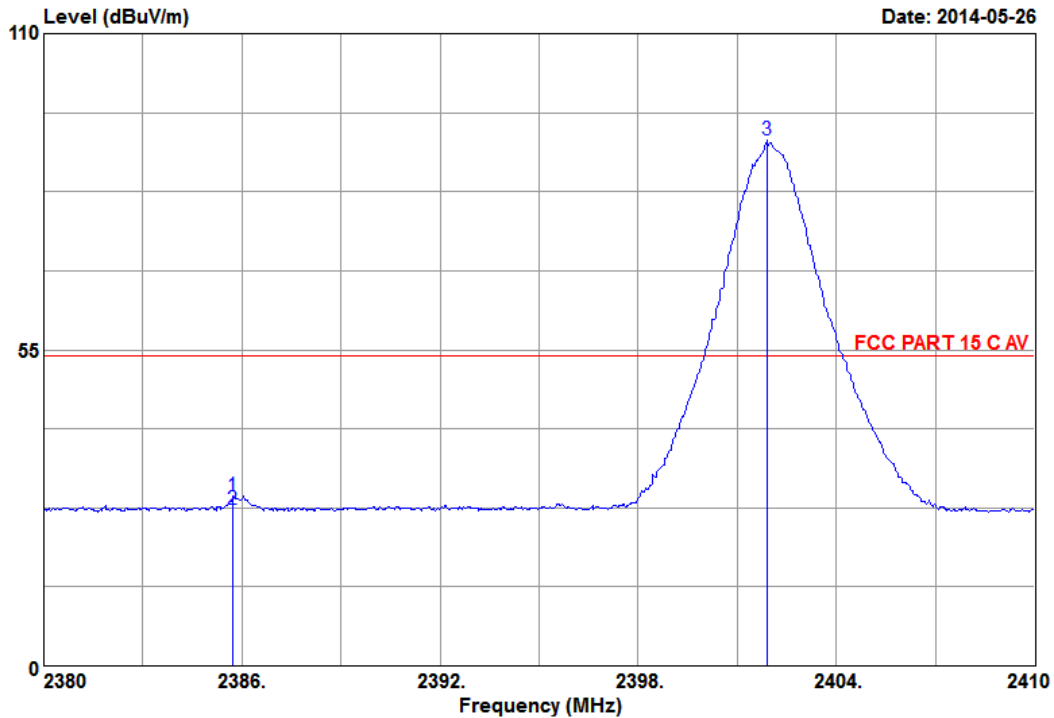


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Data: 20

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : 3DH1

Data NO. : 20
 Ant. pol. : VERTICAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.73	28.17	6.44	29.73	34.82	29.52	54.00	24.48	Average
2	2385.73	28.17	6.44	27.52	34.82	27.31	54.00	26.69	Average
3	2401.90	28.20	6.40	91.61	34.81	91.40	54.00	-37.40	Average

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

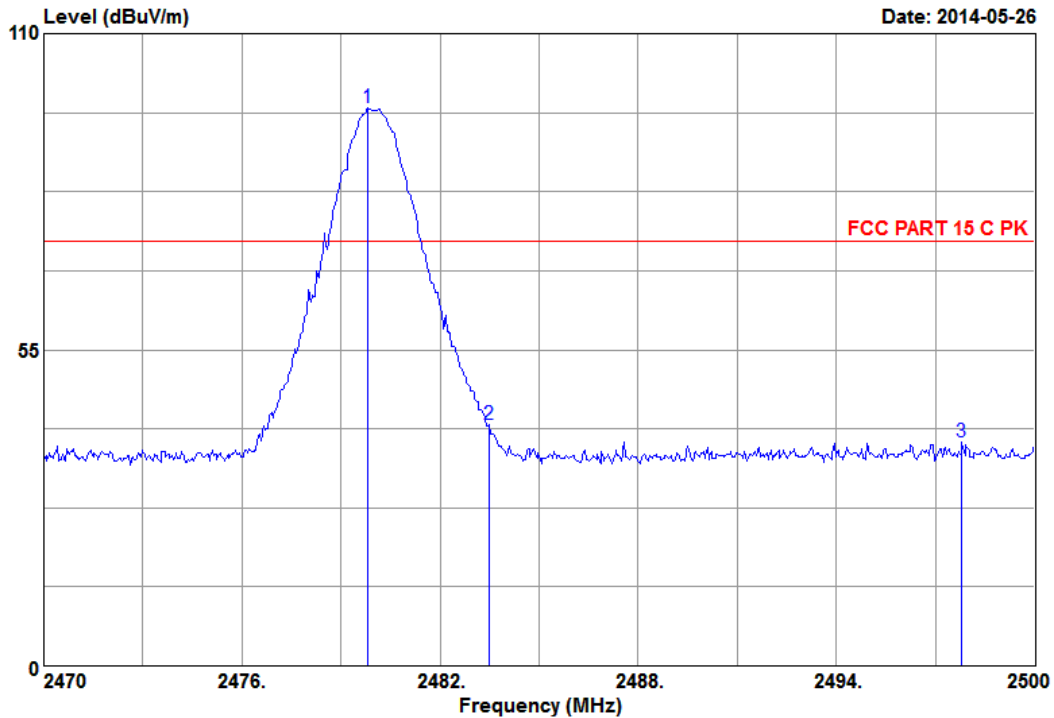


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Data: 21

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : 3DH1

Data NO. : 21
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.81	28.36	6.44	97.06	34.79	97.07	74.00	-23.07	Peak
2	2483.50	28.37	6.44	41.88	34.79	41.90	74.00	32.10	Peak
3	2497.81	28.40	6.56	38.67	34.78	38.85	74.00	35.15	Peak

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

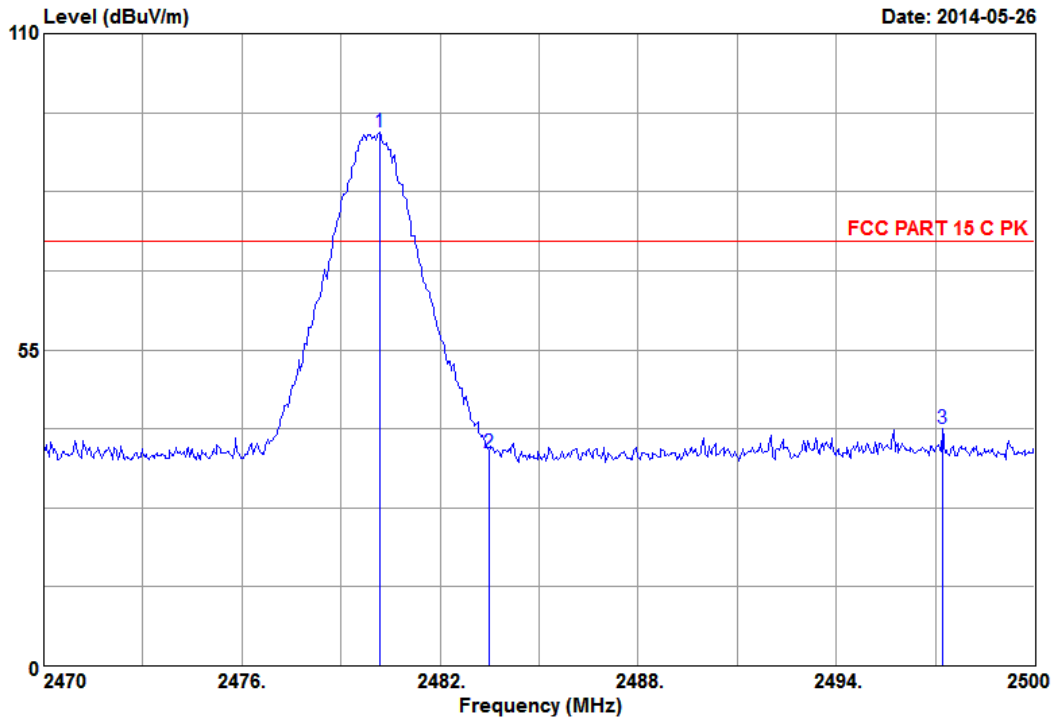


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Data: 22

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : 3DH1

Data NO. : 22
 Ant. pol. : VERTICAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.17	28.36	6.44	92.87	34.79	92.88	74.00	-18.88	Peak
2	2483.50	28.37	6.44	37.11	34.79	37.13	74.00	36.87	Peak
3	2497.21	28.40	6.56	41.17	34.78	41.35	74.00	32.65	Peak

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

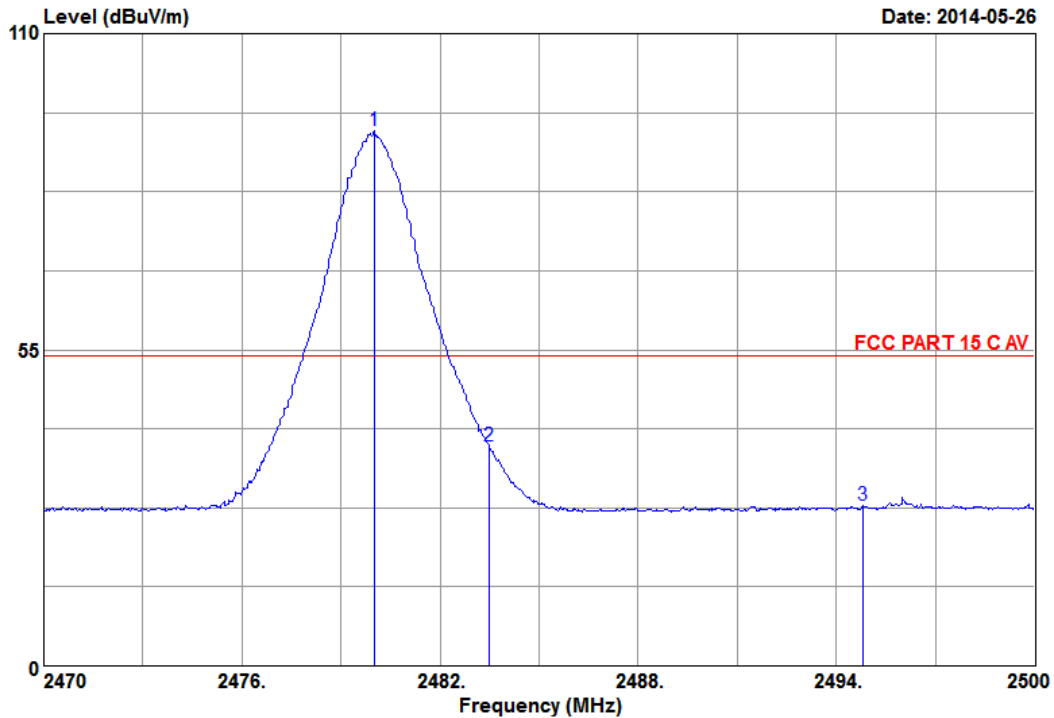


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Data: 23

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : 3DH1

Data NO. : 23
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.02	28.36	6.44	93.04	34.79	93.05	54.00	-39.05	Average
2	2483.50	28.37	6.44	38.11	34.79	38.13	54.00	15.87	Average
3	2494.81	28.39	6.56	27.64	34.78	27.81	54.00	26.19	Average

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

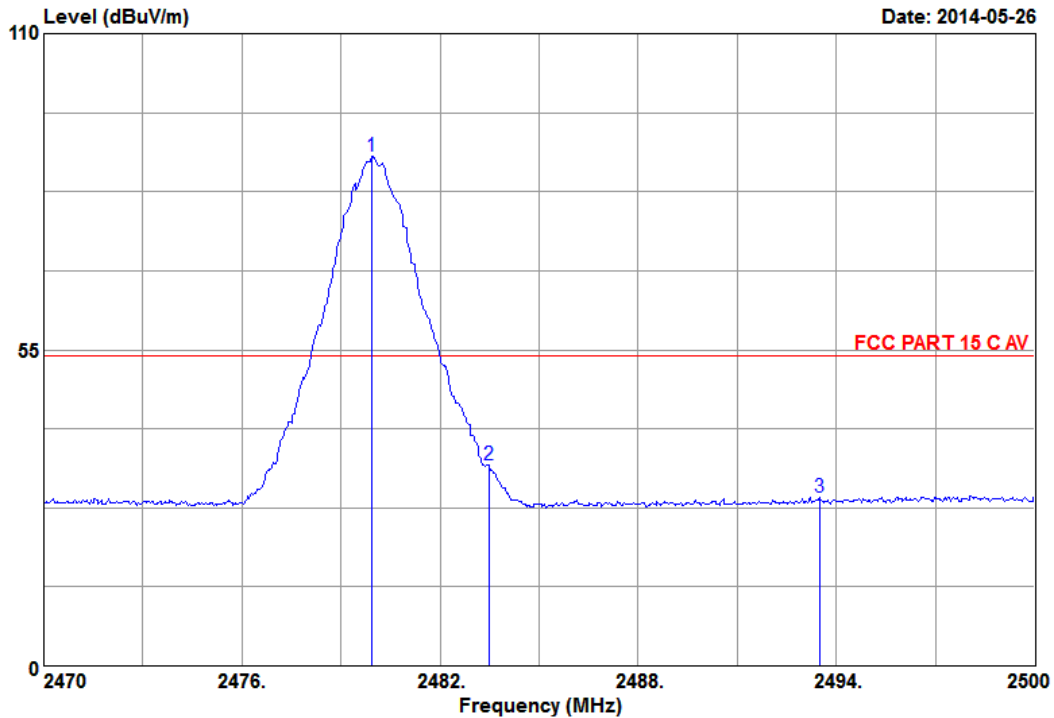


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Data: 24

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : 3DH1

Data NO. : 24
 Ant. pol. : VERTICAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.93	28.36	6.44	88.67	34.79	88.68	54.00	-34.68	Average
2	2483.50	28.37	6.44	35.05	34.79	35.07	54.00	18.93	Average
3	2493.49	28.39	6.56	29.27	34.78	29.44	54.00	24.56	Average

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

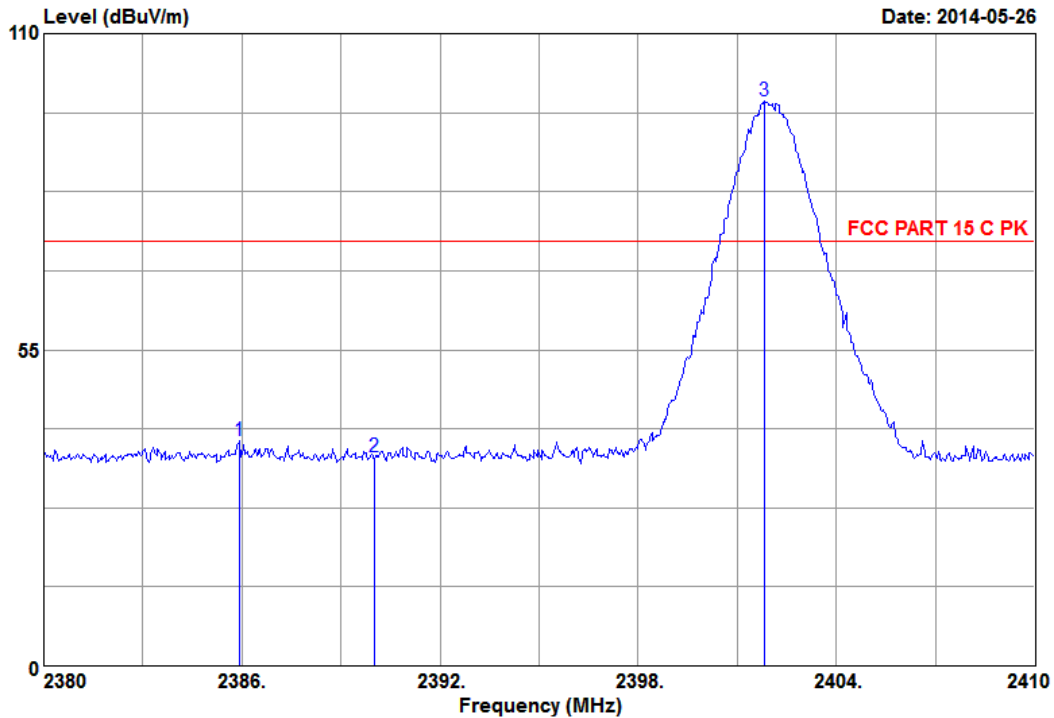


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Data: 25

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : 3DH5

Data NO. : 25
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.94	28.17	6.44	39.36	34.82	39.15	74.00	34.85	Peak
2	2390.00	28.17	6.40	36.49	34.81	36.25	74.00	37.75	Peak
3	2401.81	28.20	6.40	98.39	34.81	98.18	74.00	-24.18	Peak

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

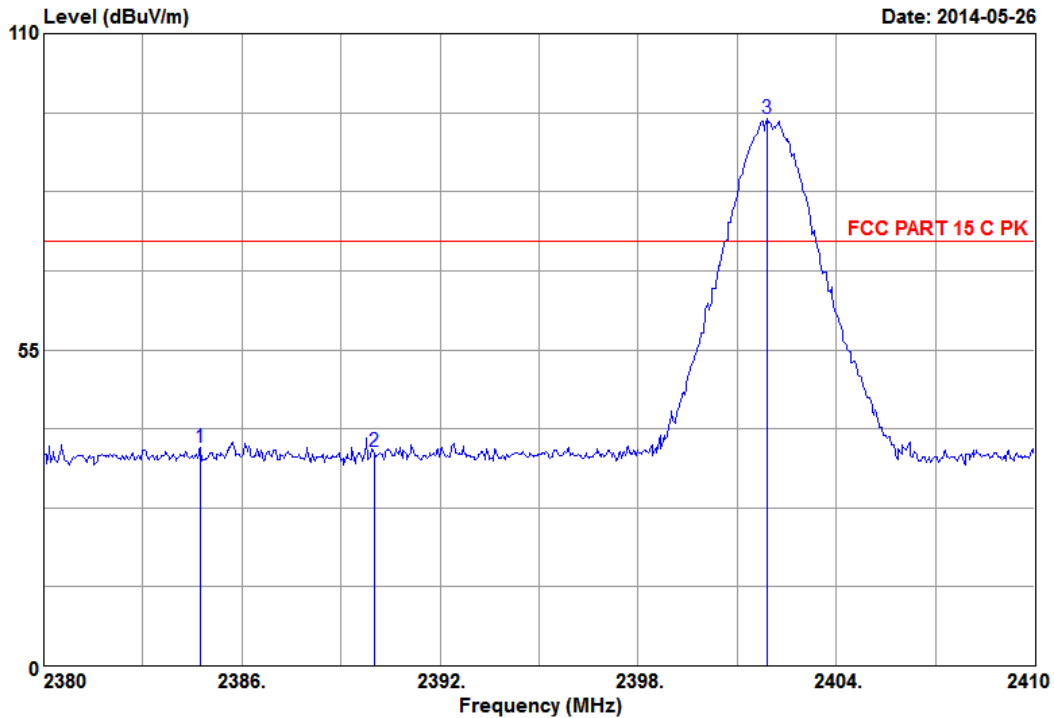


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Data: 26

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : 3DH5

Data NO. : 26
 Ant. pol. : VERTICAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2384.74	28.17	6.44	38.32	34.82	38.11	74.00	35.89	Peak
2	2390.00	28.17	6.40	37.54	34.81	37.30	74.00	36.70	Peak
3	2401.90	28.20	6.40	95.35	34.81	95.14	74.00	-21.14	Peak

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

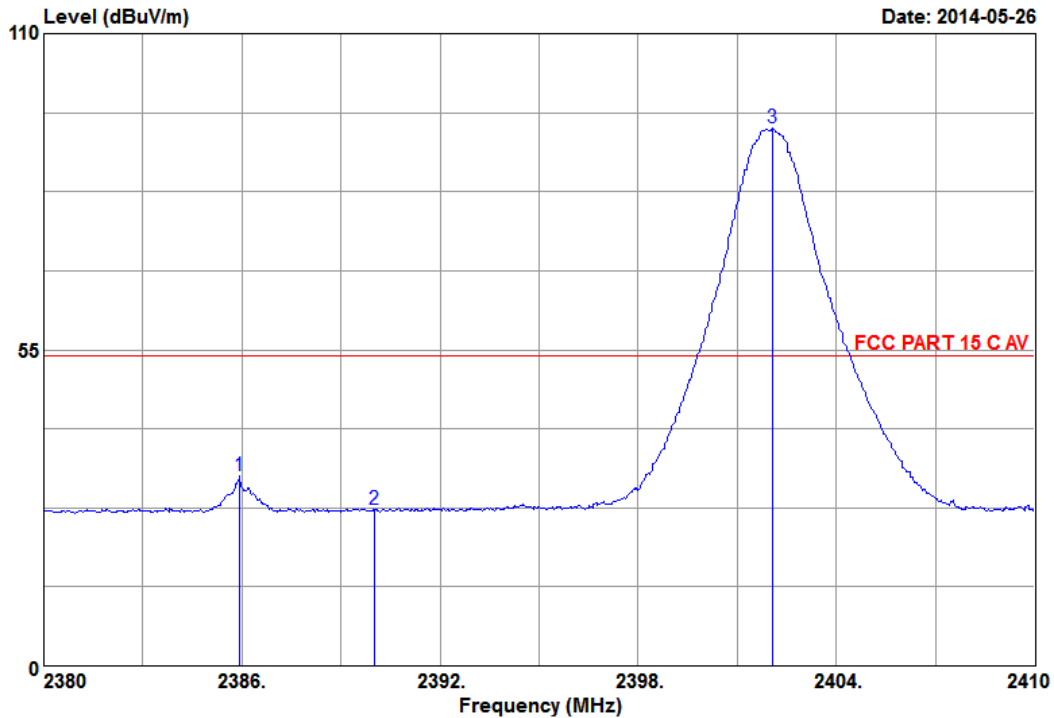


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Data: 27

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : 3DH5

Data NO. : 27
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.94	28.17	6.44	33.25	34.82	33.04	54.00	20.96	Average
2	2390.00	28.17	6.40	27.38	34.81	27.14	54.00	26.86	Average
3	2402.05	28.20	6.40	93.71	34.81	93.50	54.00	-39.50	Average

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

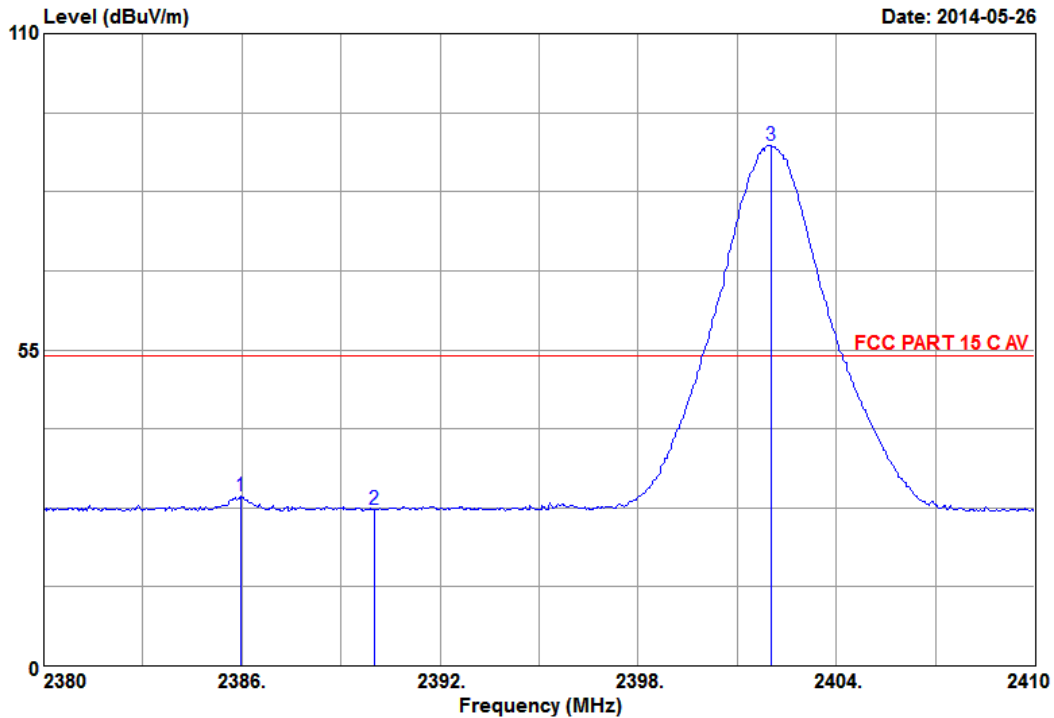


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Data: 28

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH0 2402MHz
 Memo : 3DH5

Data NO. : 28
 Ant. pol. : VERTICAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.97	28.17	6.44	29.83	34.82	29.62	54.00	24.38	Average
2	2390.00	28.17	6.40	27.45	34.81	27.21	54.00	26.79	Average
3	2402.02	28.20	6.40	90.85	34.81	90.64	54.00	-36.64	Average

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

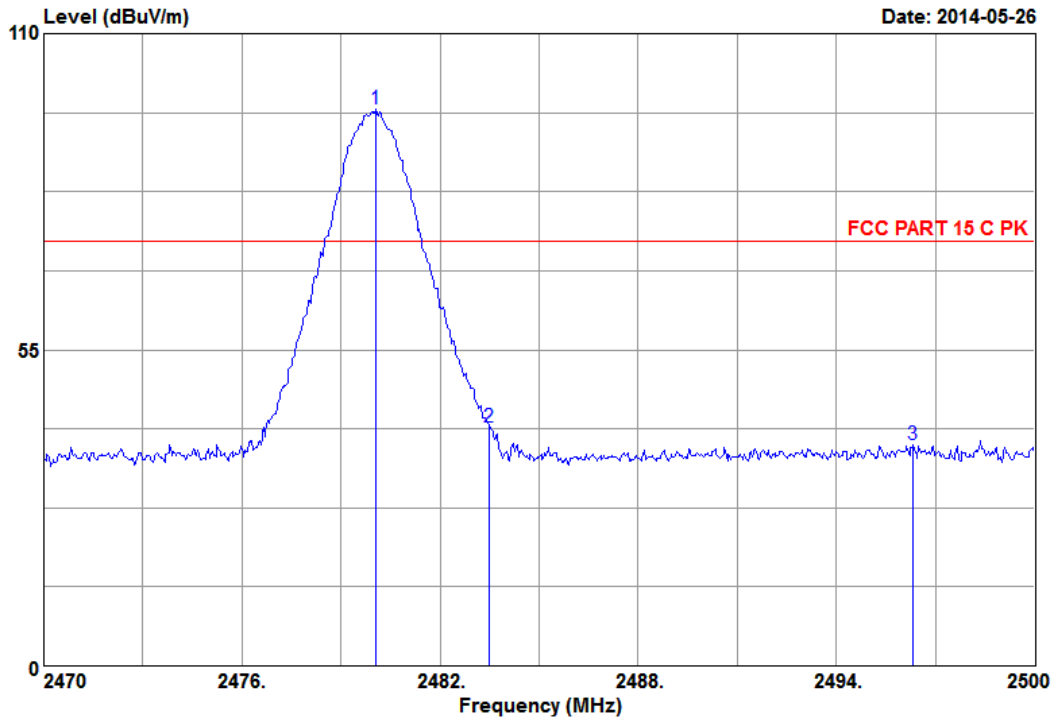


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Data: 29

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : 3DH5

Data NO. : 29
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.05	28.36	6.44	96.77	34.79	96.78	74.00	-22.78	Peak
2	2483.50	28.37	6.44	41.56	34.79	41.58	74.00	32.42	Peak
3	2496.34	28.40	6.56	38.27	34.78	38.45	74.00	35.55	Peak

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

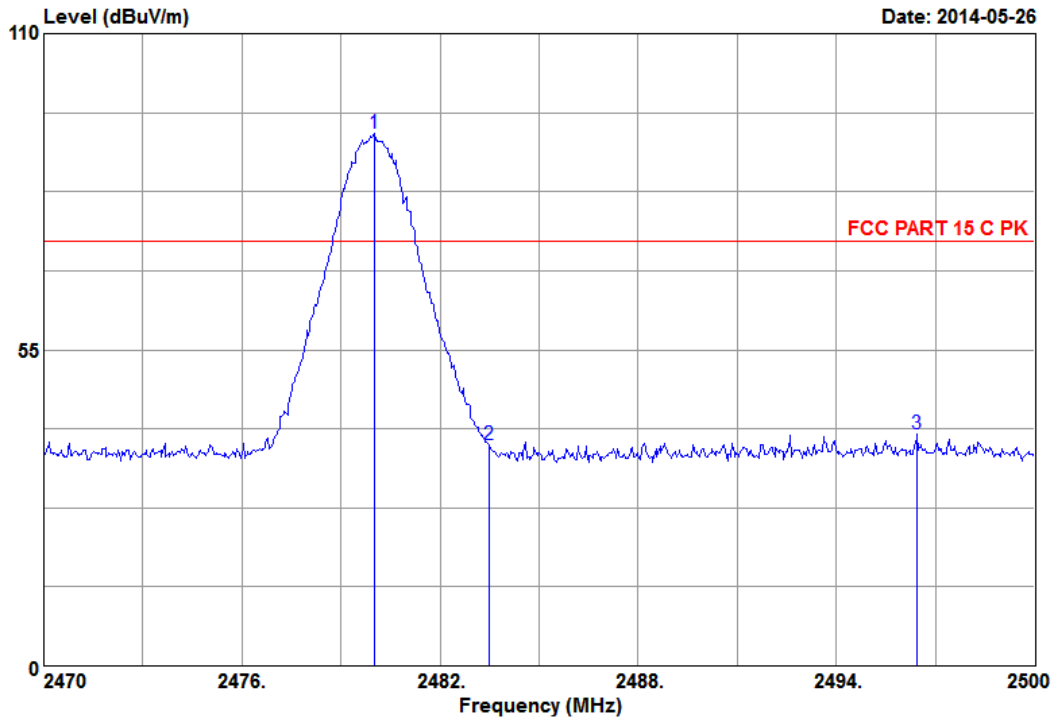


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Data: 30

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C PK
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : 3DH5

Data NO. : 30
 Ant. pol. : VERTICAL
 Engineer : Tiger

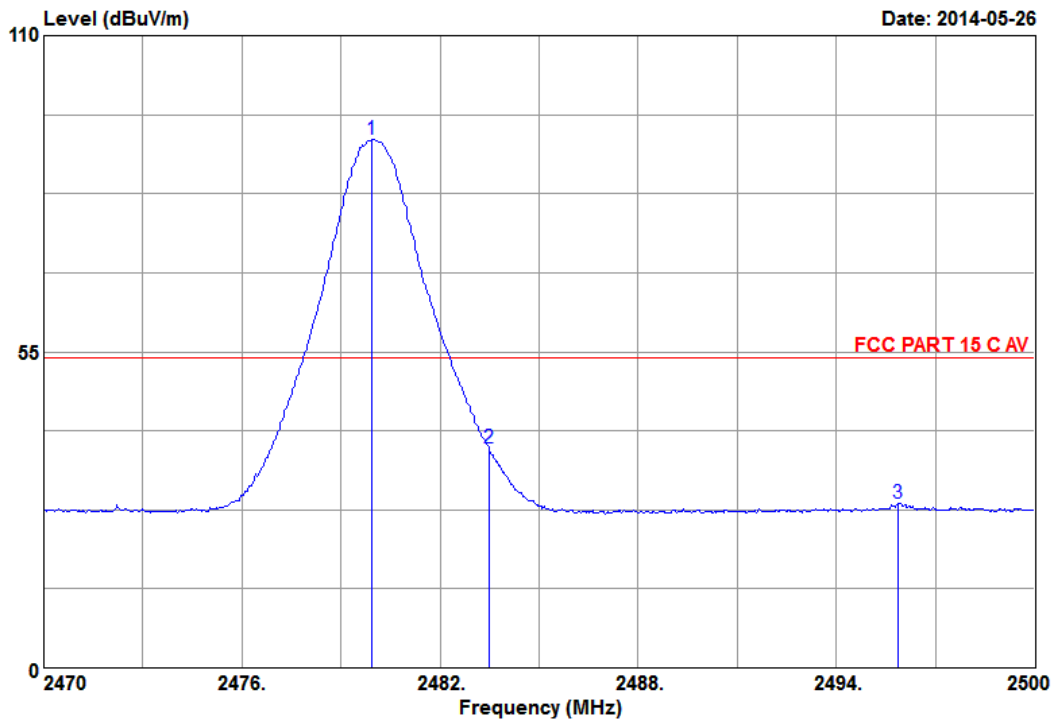
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.02	28.36	6.44	92.55	34.79	92.56	74.00	-18.56	Peak
2	2483.50	28.37	6.44	38.37	34.79	38.39	74.00	35.61	Peak
3	2496.46	28.40	6.56	40.20	34.78	40.38	74.00	33.62	Peak

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



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Data: 31 File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: 120Vac/60Hz
 Test Mode : TX CH78 2480MHz
 Memo : 3DH5

Data NO. : 31
 Ant. pol. : HORIZONTAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.93	28.36	6.44	91.94	34.79	91.95	54.00	-37.95	Average
2	2483.50	28.37	6.44	38.17	34.79	38.19	54.00	15.81	Average
3	2495.89	28.39	6.56	28.53	34.78	28.70	54.00	25.30	Average

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

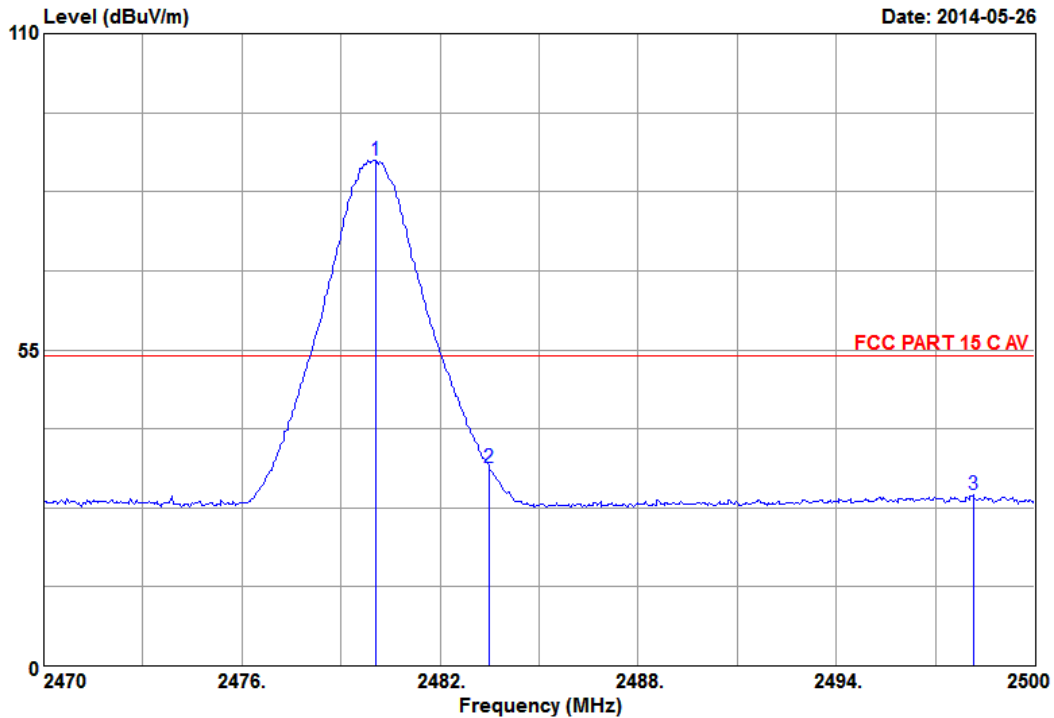


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Data: 32

File: G:\Test Data\2014\Reports\06\G1406003.EM6 (88)

Date: 2014-05-26



Site NO. : 3m Semi-Anechoic Chamber
 Dis. / Ant. : 3m 3115-62593-130528
 Limit : FCC PART 15 C AV
 Env. / Ins. : 24.1*C&52%/N9030A
 EUT : Desktop Audio System
 M/N : TSX-B15
 Power Rating: DC:3.3V JHz
 Test Mode : TX CH78 2480MHz
 Memo : 3DH5

Data NO. : 32
 Ant. pol. : VERTICAL
 Engineer : Tiger

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.05	28.36	6.44	88.00	34.79	88.01	54.00	-34.01	Average
2	2483.50	28.37	6.44	34.58	34.79	34.60	54.00	19.40	Average
3	2498.14	28.40	6.56	29.58	34.78	29.76	54.00	24.24	Average

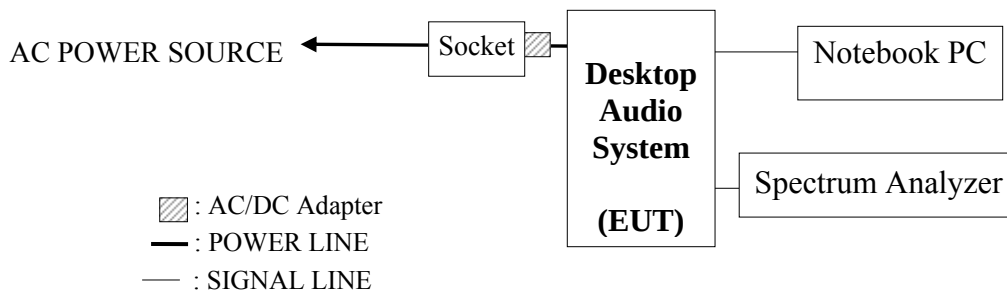
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
 2. The emission levels that are 20dB below the official limit are not reported.

5. 20 dB BANDWIDTH MEASUREMENT

5.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2013-06-24	2014-06-23

5.2. Block Diagram of Test Setup



5.3. Specification Limits (§15.247(a)(1))

Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

5.4. Test Procedure

The transmitter output was connected to the spectrum analyzer. The RBW of the fundamental frequency was measured by spectrum analyzer 1% of the 20dB bandwidth and the setting equal to RBW and VBW is equal to RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB. The measurement guideline was according to FCC Public Notice DA 00-705.

5.5. Test Results

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

DH1

Channel	Center Frequency(MHz)	20 dB Bandwidth(MHz)	$\frac{2}{3}$ 20 dB Bandwidth(MHz)
0	2402	0.8604	0.5736
39	2441	0.8594	0.5729
78	2480	0.8608	0.5739

The maximum two-third of the 20dB bandwidth shall be at maximum 0.5739.

DH5

Channel	Center Frequency(MHz)	20 dB Bandwidth(MHz)	$\frac{2}{3}$ 20 dB Bandwidth(MHz)
0	2402	0.9474	0.6316
39	2441	0.9480	0.6320
78	2480	0.9483	0.6322

The maximum two-third of the 20dB bandwidth shall be at maximum 0.6322.

3DH1

Channel	Center Frequency(MHz)	20 dB Bandwidth(MHz)	$\frac{2}{3}$ 20 dB Bandwidth(MHz)
0	2402	1.211	0.8073
39	2441	1.211	0.8073
78	2480	1.210	0.8067

The maximum two-third of the 20dB bandwidth shall be at maximum 0.8073.

3DH5

Channel	Center Frequency(MHz)	20 dB Bandwidth(MHz)	$\frac{2}{3}$ 20 dB Bandwidth(MHz)
0	2402	1.261	0.8407
39	2441	1.260	0.8400
78	2480	1.258	0.8387

The maximum two-third of the 20dB bandwidth shall be at maximum 0.8407.

DH1:
CH 0



CH 39



CH 78



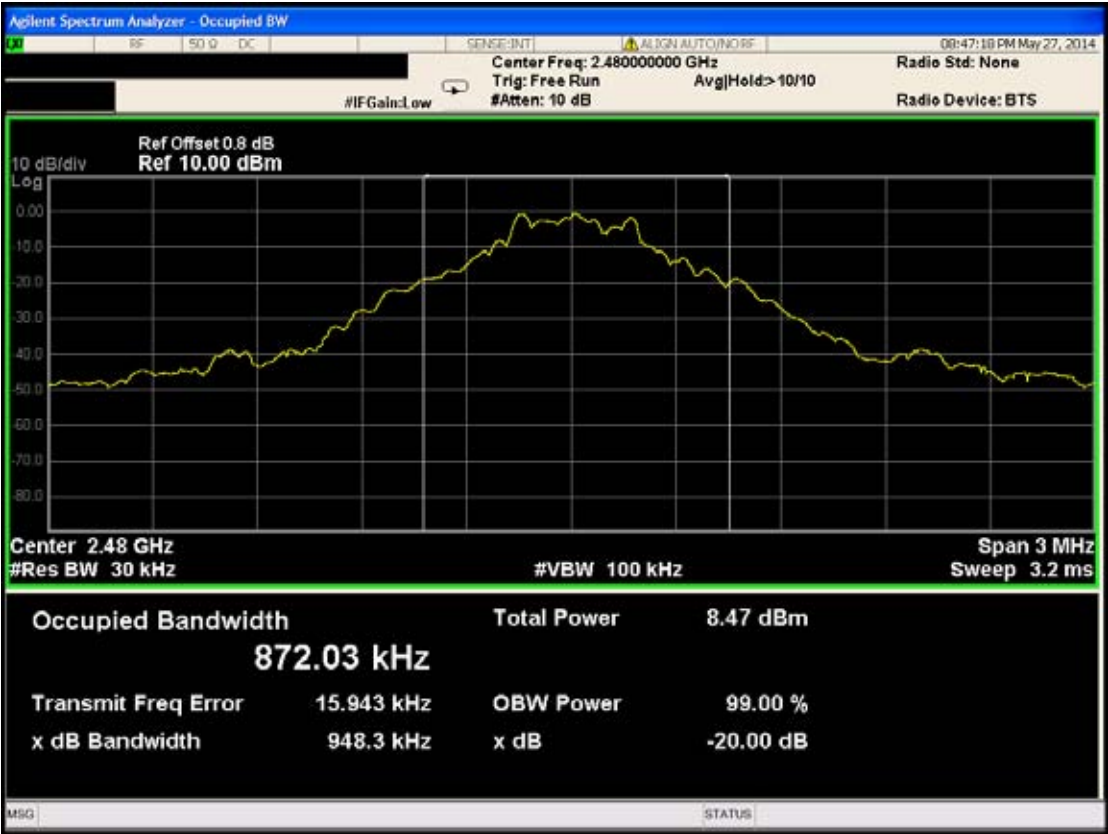
DH5:
CH 0



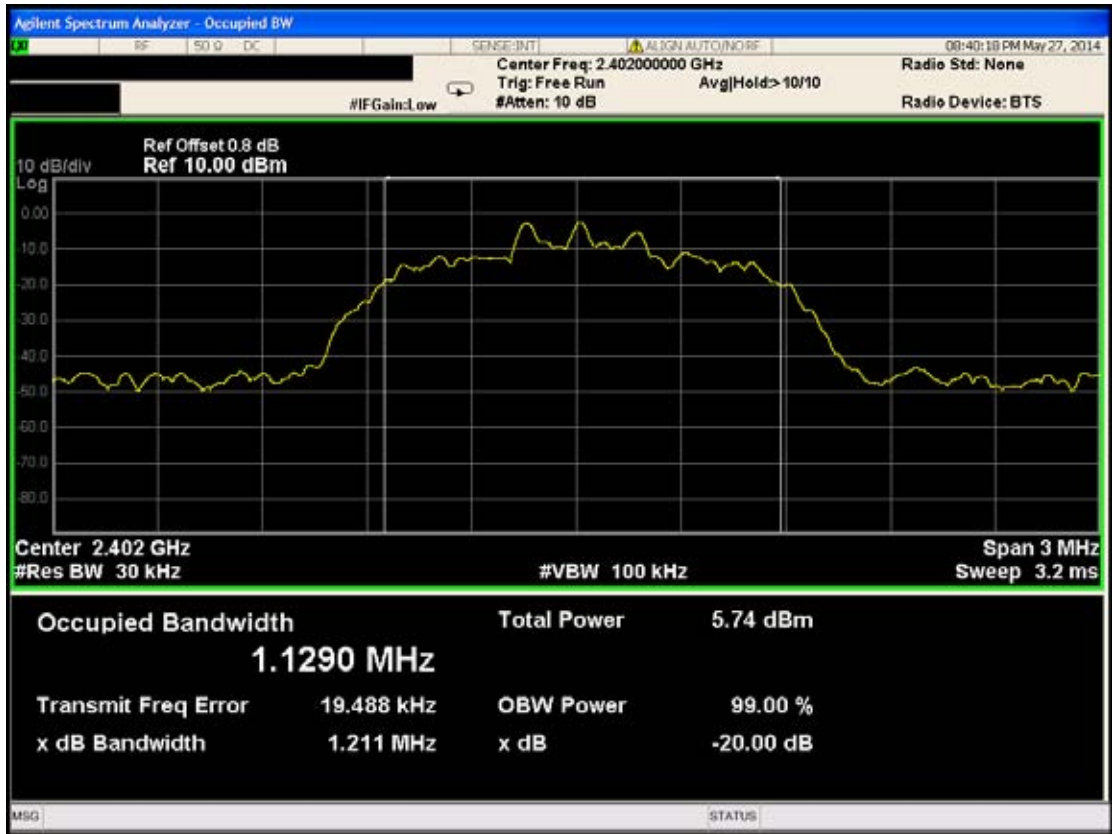
CH 39



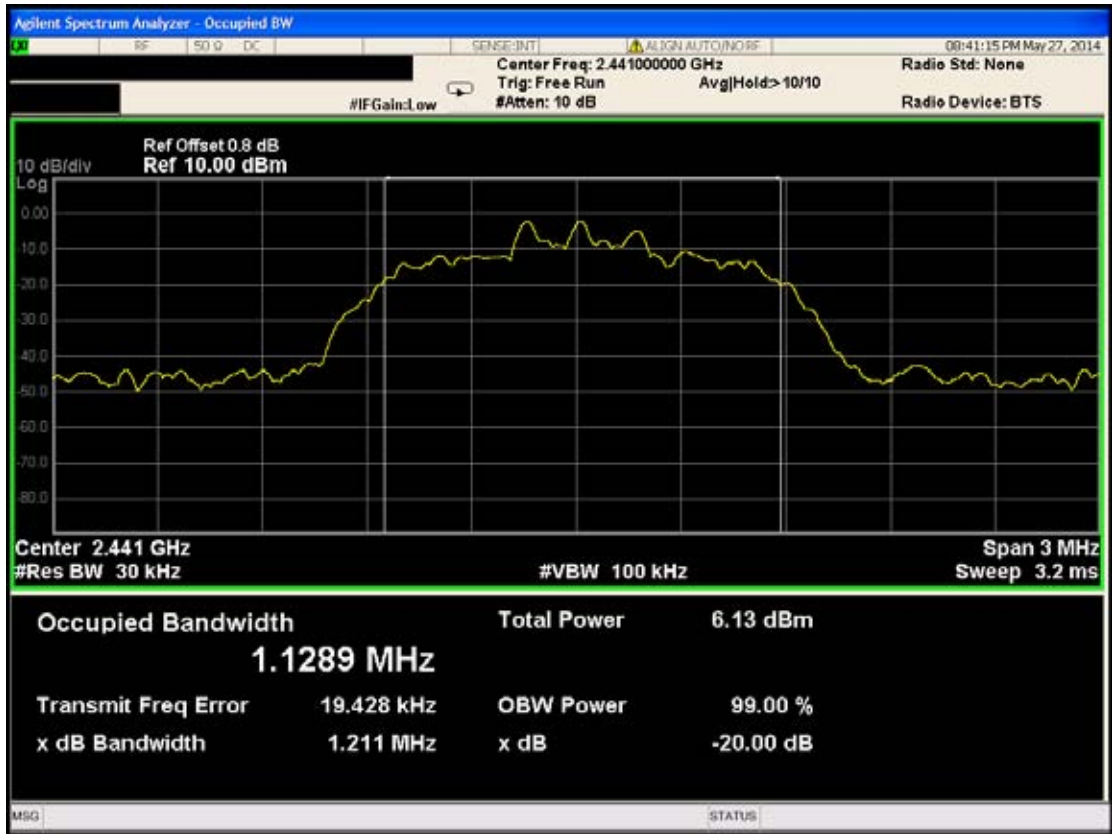
CH 78



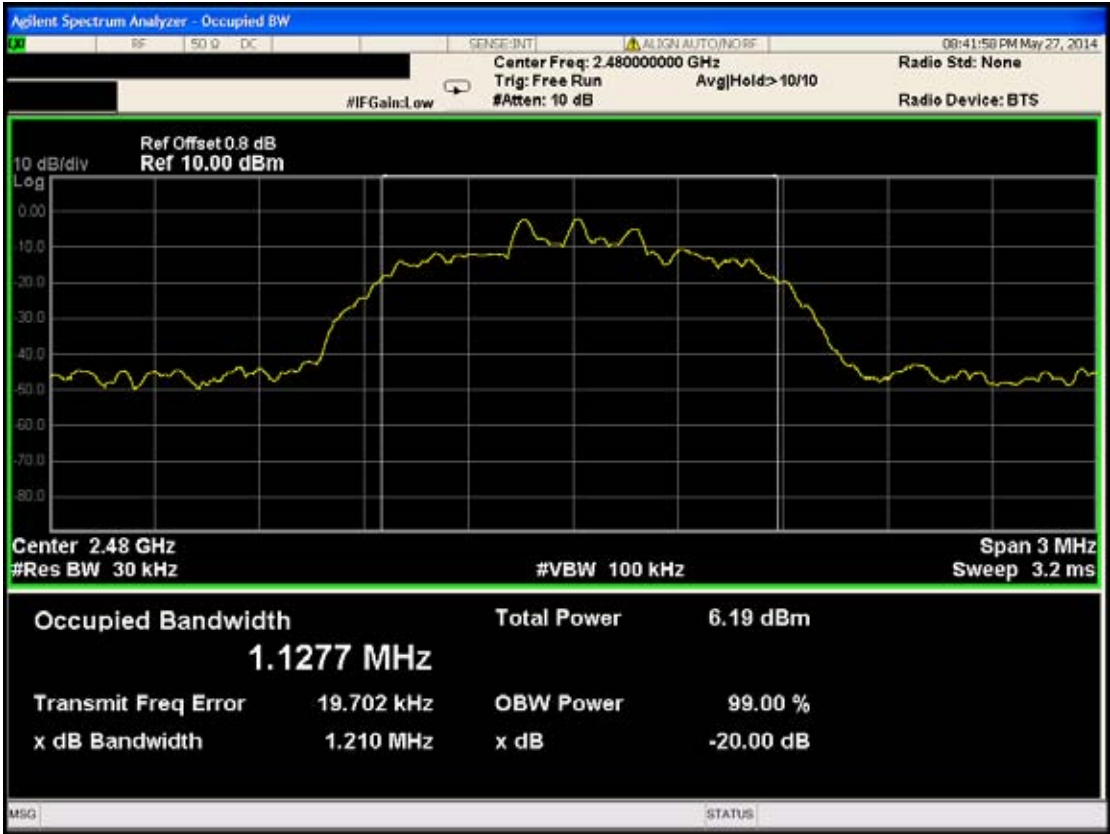
3DH1:
CH 0



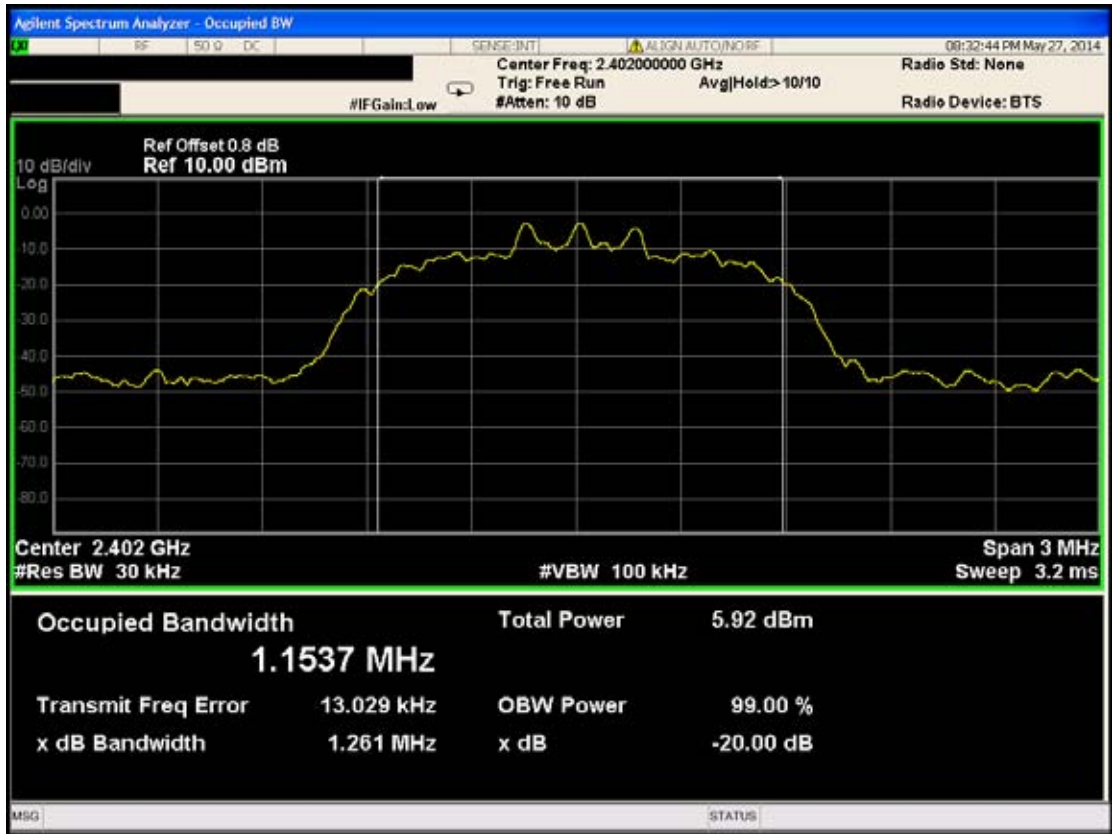
CH 39



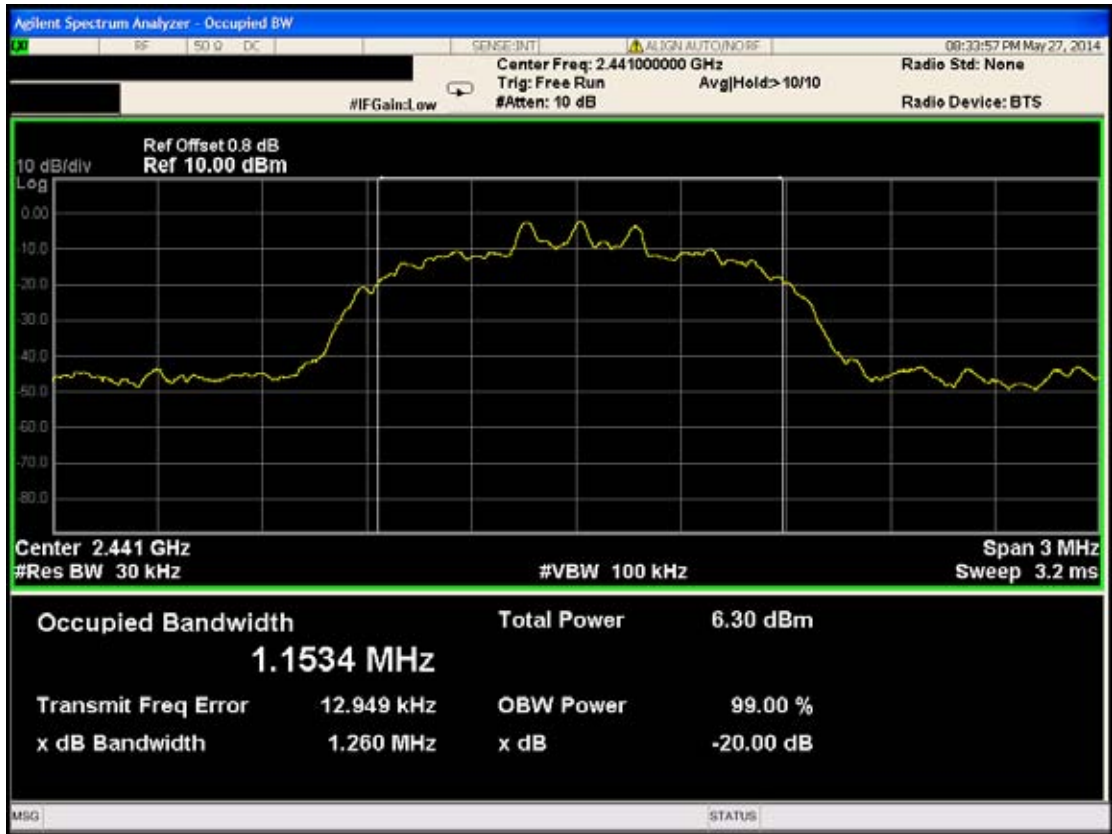
CH 78



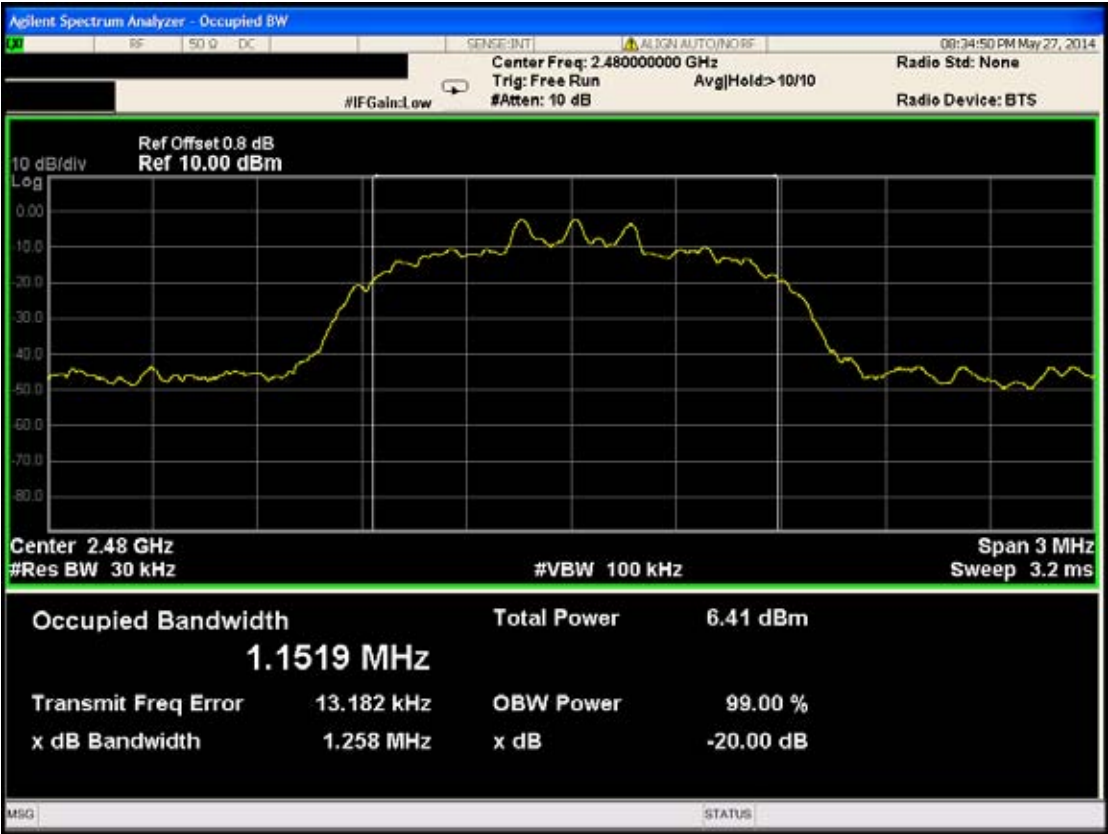
3DH5:
CH 0



CH 39



CH 78



6. CARRIER FREQUENCY SEPARATION MEASUREMENT

6.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2013-06-24	2014-06-23

6.2. Block Diagram of Test Setup

Same as section 5.2.

6.3. Specification Limits (§15.247(a)(1))

Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output no greater than 125mW.

6.4. Test Procedure

The transmitter output was connected to the spectrum analyzer. The channel separation was measure by spectrum analyzer with RBW equal to 1% of the span. The video bandwidth not to be smaller than resolution bandwidth, the peak was mark on adjacent bandwidth, the between of peak is carrier frequency separation. The measurement guideline was according to FCC Public Notice DA 00-705.

6.5. Test Results

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

Below values have met the requirement as specified in section 5.3: frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

DH1

Channel	Center Frequency(MHz)	Separation(MHz)
0	2402	1.002
39	2441	1.002
78	2480	1.005

DH5

Channel	Center Frequency(MHz)	Separation(MHz)
0	2402	1.002
39	2441	1.002
78	2480	1.002

3DH1

Channel	Center Frequency(MHz)	Separation(MHz)
0	2402	1.002
39	2441	1.002
78	2480	1.002

3DH5

Channel	Center Frequency(MHz)	Separation(MHz)
0	2402	1.002
39	2441	1.002
78	2480	1.002

DH1:
CH 0



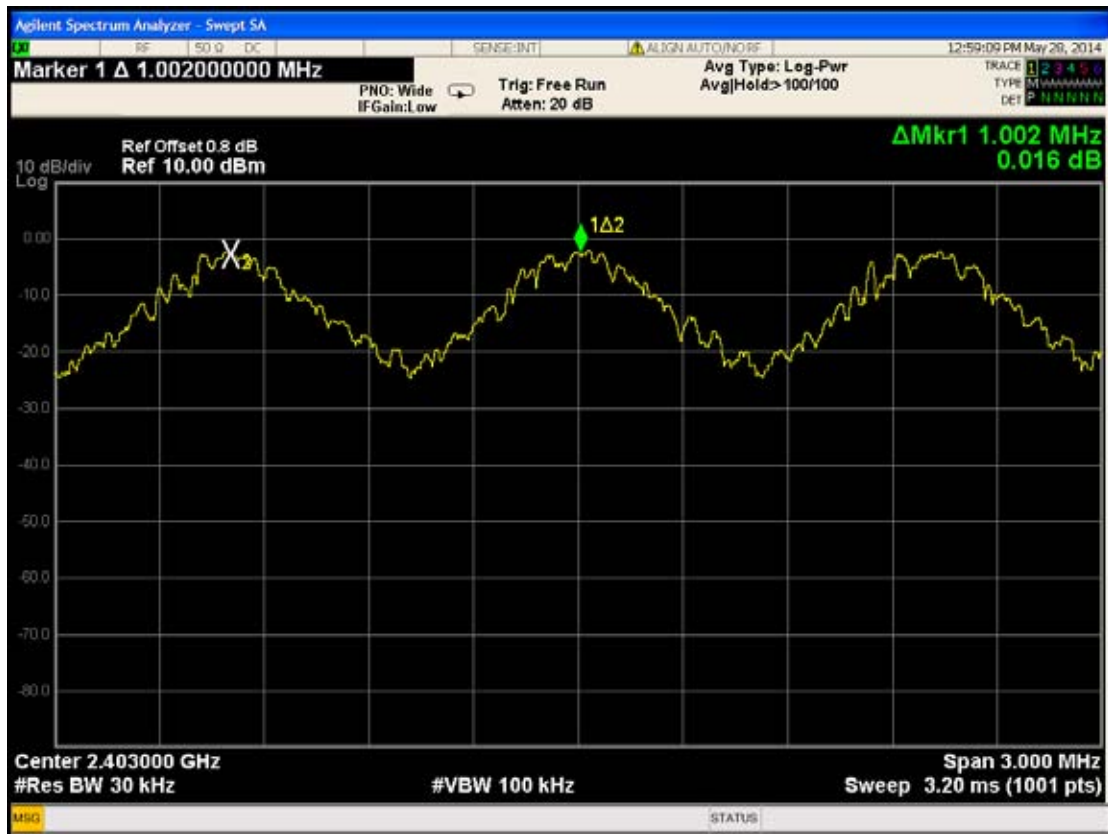
CH 39



CH 78



DH5:
CH 0



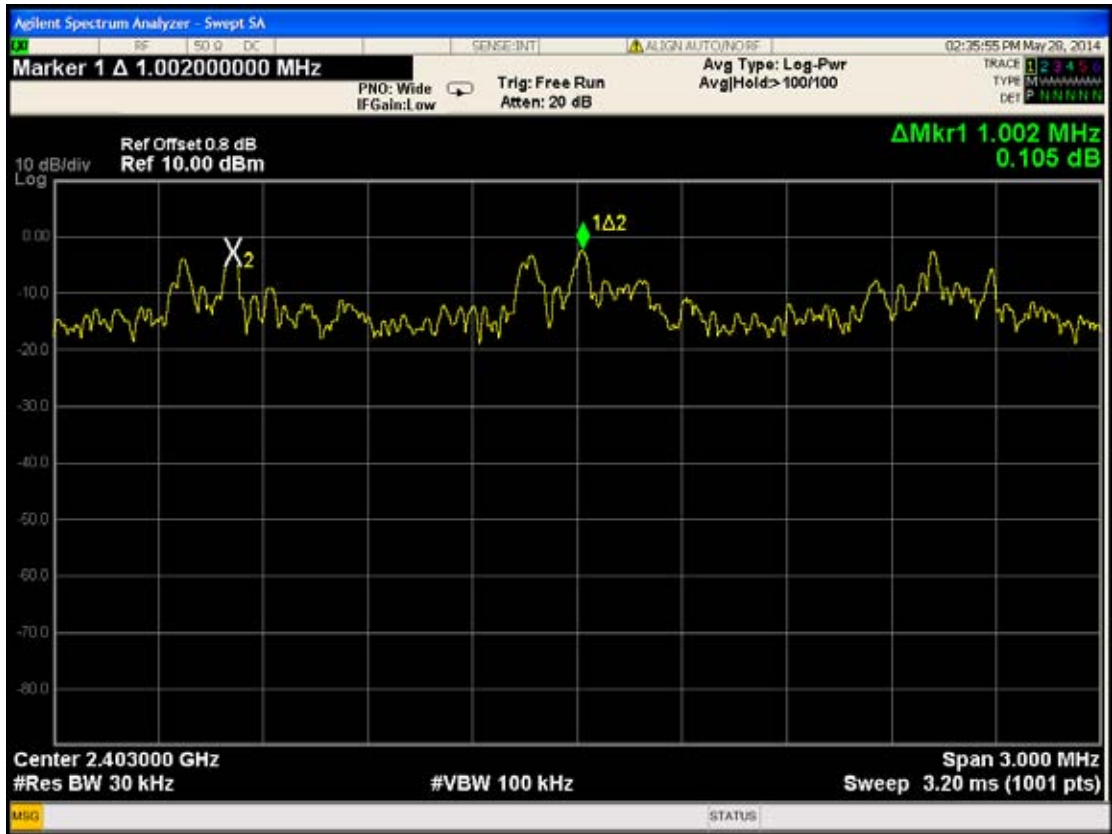
CH 39



CH 78



3DH1:
CH 0



CH 39



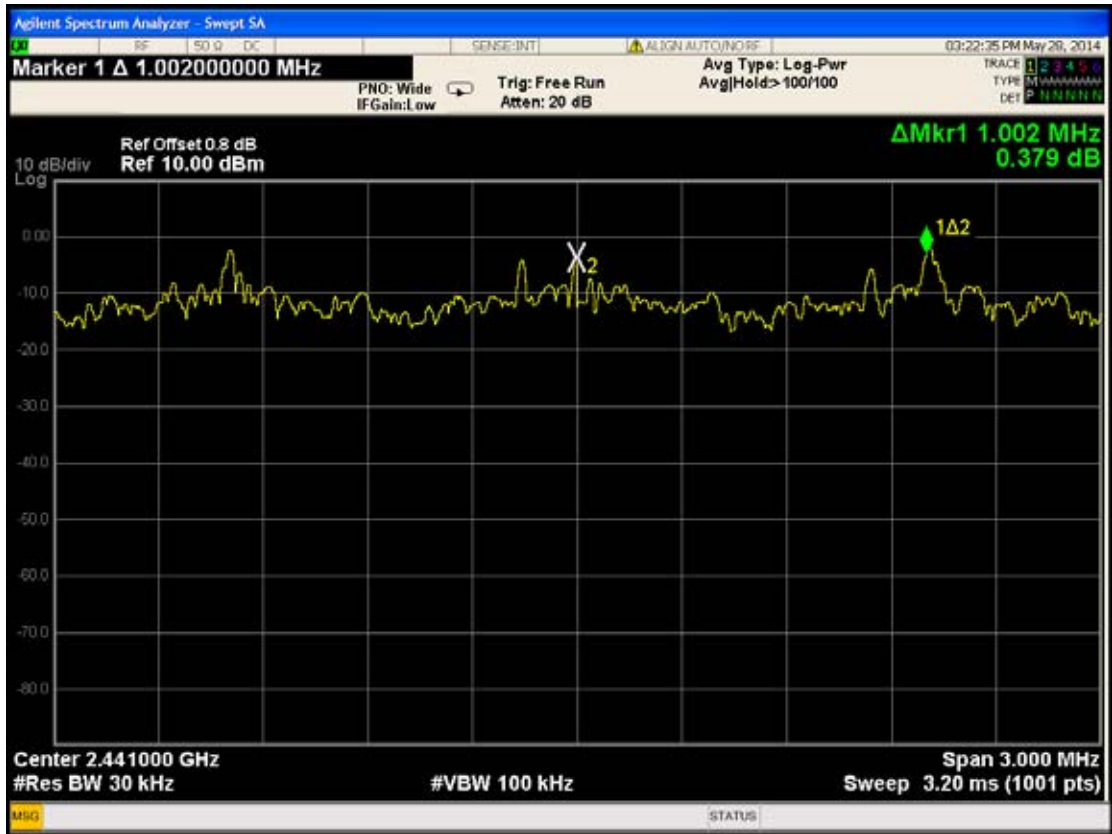
CH 78



3DH5:
CH 0



CH 39



CH 78

