



# FCC/IC Radio Test Report

**FCC ID: EMOIP76  
IC: 986B-IP76**

This report concerns (check one) :  Original Grant  Class II Change

**Issued Date** : Feb. 29, 2012  
**Project No.** : 1201C103  
**Equipment** : Glowtunes Wireless 4-Speaker Tower Stereo System  
**Model Name for FCC** : iP76;iP76X  
**Model Name for IC** : iP76  
**Applicant** : SDI TECHNOLOGIES INC.  
**Address** : 1299 Main Street, Rahway, NJ 07065, U.S.A

**Tested by:**

Neutron Engineering Inc. EMC Laboratory

**Date of Receipt:** Jan. 10, 2012

**Date of Test:**

Jan. 10, 2012 ~ Feb. 28, 2012

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## Declaration

**Neutron** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **CHINA**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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## Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.



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## **1. CERTIFICATION**

Equipment: Glowtunes Wireless 4-Speaker Tower Stereo System

Brand Name: iHome

Model Name : iP76;iP76X  
for FCC

Model Name : iP76  
for IC

Applicant: SDI TECHNOLOGIES INC.

Factory: Arts Electronics Co., Ltd

Address: NO.1, SHANGXING LU, SHANGJIAO COMMUNITY, CHANGAN TOWN,  
DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

Date of Test: Jan. 10, 2012 ~ Feb. 28, 2012

Test Item: ENGINEERING SAMPLE

FCC Part15, Subpart C(15.247) / ANSI C63.4 : 2003 / ANSI C63.10:2009 /

Standards: FCC Public Notice DA 00-705, March 30, 2000.

Canada RSS-210:2010

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FICP-1-1201C103) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).



## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

<b>APPLIED STANDARD: 47 CFR Part 15, Subpart C; Canada RSS-210:2010</b>				
Standard Section		Test Item	Judgment	Remark
RSS-210	47 CFR Part 15			
RSS-GEN 7.2.2	15.207	Conducted Emission	PASS	
RSS-210 Annex 8 (A8.1d)	15.247(d)	Antenna conducted Spurious Emission	PASS	
RSS-210 Annex 8 (A8.1d)	15.247 (a)(1)	Hopping Channel Separation	PASS	
RSS-210 Annex 8 (A8.1b)	15.247 (b)(1)	Peak Output Power	PASS	
RSS-210 Annex 8 (A8.1a)	15.247(d) 15.209	Radiated Spurious Emission	PASS	
RSS-210 Annex 8 (A8.4(2))	15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS	
RSS-210 Annex 8 (A8.5)	15.247 (a)(1)(iii)	Dwell Time	PASS	
RSS-Gen 7.2.3	15.205	Restricted Bands	PASS	
RSS-210 Annex 8 (A8.5)	15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

(2) According to FCC Public Notice DA 00-705, March 30, 2000.



## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3,Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792

Neutron's test firm number for FCC 319330

Neutron's test firm number for IC 4428B-1

## 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement  $y \pm U$  , where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2** , providing a level of confidence of approximately **95 %** .

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (dB)	NOTE
DG-CB03	CISPR	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	



### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Glowtunes Wireless 4-Speaker Tower Stereo System															
Brand Name	iHome															
Model Name for FCC	iP76;iP76X															
Model Name for IC	iP76															
OEM Brand/ Model Name	N/A															
Model Difference	"X" denote as the color of the cabinet															
Product Description	<p>The EUT is a Glowtunes Wireless 4-Speaker Tower Stereo System</p> <table border="1"><tr><td>Operation Frequency:</td><td>2402~2480 MHz</td></tr><tr><td>Modulation Type:</td><td>GFSK(1Mbps)</td></tr><tr><td>Bit Rate of Transmitter</td><td><math>\pi/4</math>-DQPSK(2Mbps) 8-DPSK(3Mbps)</td></tr><tr><td>Number of Channel</td><td>79 CH</td></tr><tr><td>Antenna Designation:</td><td>Please see Note 3.</td></tr><tr><td>Antenna Gain(Peak)</td><td>Please see Note 3.</td></tr><tr><td>Output Power:</td><td>1.99 dBm (1Mbps) 1.00 dBm (3Mbps)</td></tr></table>		Operation Frequency:	2402~2480 MHz	Modulation Type:	GFSK(1Mbps)	Bit Rate of Transmitter	$\pi/4$ -DQPSK(2Mbps) 8-DPSK(3Mbps)	Number of Channel	79 CH	Antenna Designation:	Please see Note 3.	Antenna Gain(Peak)	Please see Note 3.	Output Power:	1.99 dBm (1Mbps) 1.00 dBm (3Mbps)
Operation Frequency:	2402~2480 MHz															
Modulation Type:	GFSK(1Mbps)															
Bit Rate of Transmitter	$\pi/4$ -DQPSK(2Mbps) 8-DPSK(3Mbps)															
Number of Channel	79 CH															
Antenna Designation:	Please see Note 3.															
Antenna Gain(Peak)	Please see Note 3.															
Output Power:	1.99 dBm (1Mbps) 1.00 dBm (3Mbps)															
	<p>Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer</p>															
Power Source	DC Voltage supplied from AC Adapter. Brand/Model name: iHome/ Y48FE-120-4000U															
Power Rating	I/P: 100-240V~50-60Hz 1.2A O/P: 12V 4000mA															
Connecting I/O Port(s)	Please refer to the User's Manual															

**Note:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.

<b>Channel List</b>					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed Antenna	N/A	0



## 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	BT
Mode 2	Line in
Mode 3	iPod in
Mode 4	TX Mode <b>NOTE (1)</b>
Mode 5	RX Mode <b>NOTE (1)</b>

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

For Conducted Emission	
Final Test Mode	Description
Mode 1	BT
Mode 2	Line in
Mode 3	iPod in

For Radiated Emission	
Final Test Mode	Description
Mode 4	TX Mode <b>NOTE (1)</b>
Mode 5	RX Mode <b>NOTE (1)</b>

### Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.

## 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

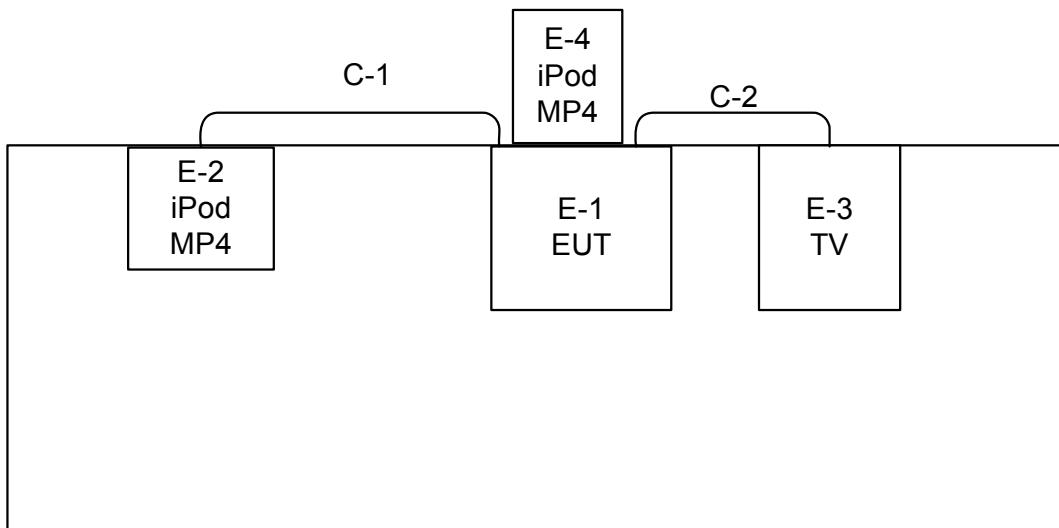
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Test program: CSR		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters-1Mbps	63	63	63
Parameters-3Mbps	100	100	100



### **3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**

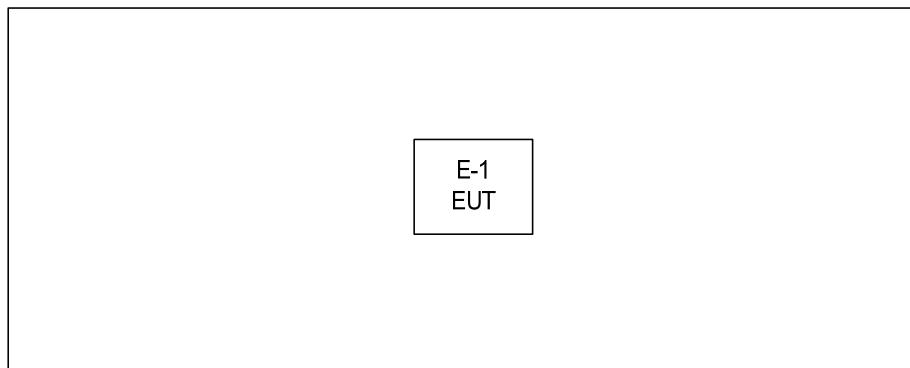
**Conducted:**



C-1: AUDIO Cable  
C-2: VIDEO Cable

E-5  
iPhone 3

**Radiated:**





### 3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID/IC	Series No.	Note
E-1	Glowtunes Wireless 4-Speaker Tower Stereo System	iHome	iP76	EMOIP76/986B-IP76	N/A	EUT
E-2	Ipod MP4	APPLE	A1337	DOC	GB023CTEA90	
E-3	TV	SONY	KLV-32EX400	N/A	N/A	
E-4	iPod MP4	APPLE	A1136	DOC	8M637MYXV9M	
E-5	IPhone 3	APPLE	A1241	N/A	BCGA1241	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.5m	
C-2	NO	NO	2.6m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

### 4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2SH	00052766	May.25.2012
2	LISN	R&S	ENV216	100526	May.25.2012
3	Test Cable	N/A	C_19	N/A	Apr.25.2012
4	EMI TEST RECEIVER	R&S	ESCI	100895	May.26.2012
5	50Ω Terminator	SHX	TF2-3G-A	08122901	May.26.2012

Remark: " N/A" denotes No Model No. , Serial No. or No Calibration specified.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

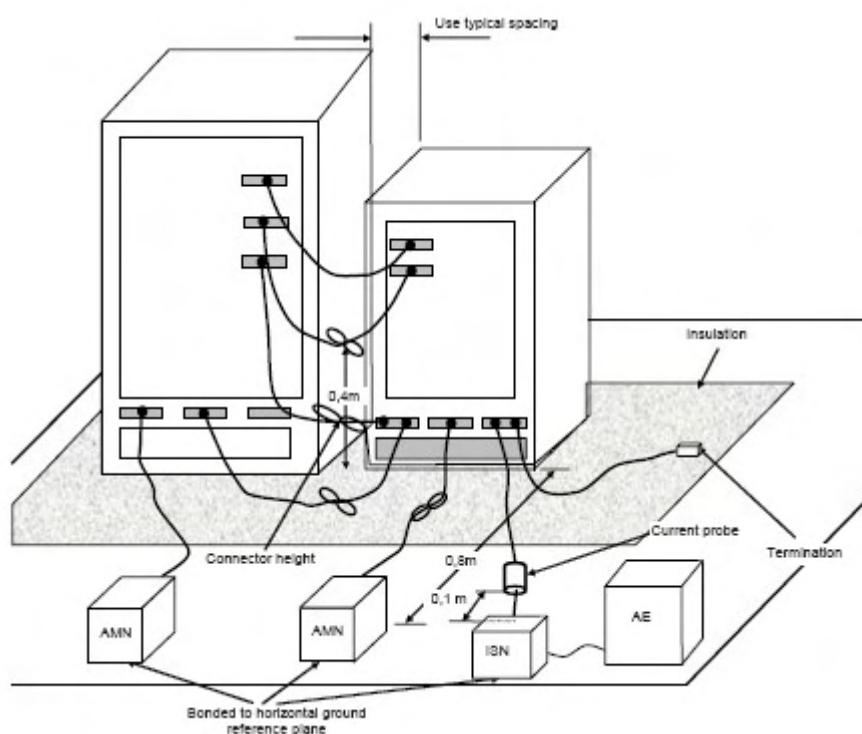
#### 4.1.3 TEST PROCEDURE

The EUT shall be placed on the horizontal ground reference plane, orientated for normal use, but separated from metallic contact with the ground reference plane by up to 15 cm of insulation. The cables shall be insulated (by up to 15 cm) from the horizontal ground reference plane. If the equipment requires a dedicated ground connection, then this shall be provided and bonded to the horizontal ground plane. Intra-unit cables (between units forming the EUT or between the EUT and associated equipment) shall drape to, but remain insulated from, the horizontal ground reference plane. Any excess shall either be folded at the cable centre into a bundle no longer than 0.4 m or arranged in a serpentine fashion. If an intra-unit cable length is not long enough to drape to the horizontal ground reference plane but drapes closer than 0.4 m, then the excess shall be folded at the cable centre into a bundle no longer than 0.4 m. The bundle shall be positioned such that it is either 0.4 m above the horizontal ground reference plane or at the height of the cable entry or connection point if this is within 0.4 m of the horizontal ground reference plane (See Figures 8 ).

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



Figures 8

#### 4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT is continuously transmitting/Receiving data or Hopping on mode.



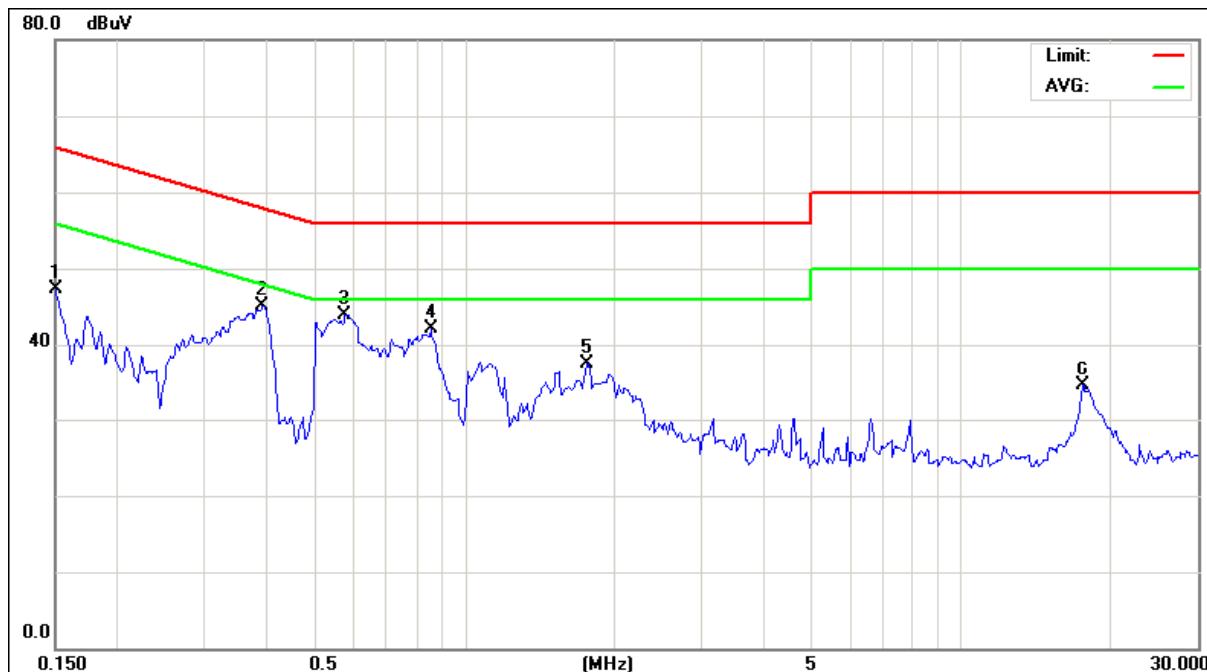
#### 4.1.7 TEST RESULTS

EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name. :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Power :	AC 120V/60Hz
Test Mode :	BT		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Line	47.30	*	66.00	56.00	-18.70	(QP)
0.39	Line	45.10	*	58.02	48.02	-12.92	(QP)
0.58	Line	43.87	*	56.00	46.00	-12.13	(QP)
0.85	Line	42.15	*	56.00	46.00	-13.85	(QP)
1.76	Line	37.58	*	56.00	46.00	-18.42	(QP)
7.65	Line	34.54	*	60.00	50.00	-25.46	(QP)

##### Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “ \* ” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.





EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name. :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Power :	AC 120V/60Hz
Test Mode :	BT		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Neutral	49.19	*	66.00	56.00	-16.81	(QP)
0.17	Neutral	47.17	*	64.80	54.80	-17.63	(QP)
0.37	Neutral	44.69	*	58.44	48.44	-13.75	(QP)
0.54	Neutral	42.85	*	56.00	46.00	-13.15	(QP)
0.82	Neutral	41.82	*	56.00	46.00	-14.18	(QP)
1.76	Neutral	36.95	*	56.00	46.00	-19.05	(QP)

**Remark**

- (1) All readings are QP Mode value unless otherwise stated AVG in column of "Note". If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.



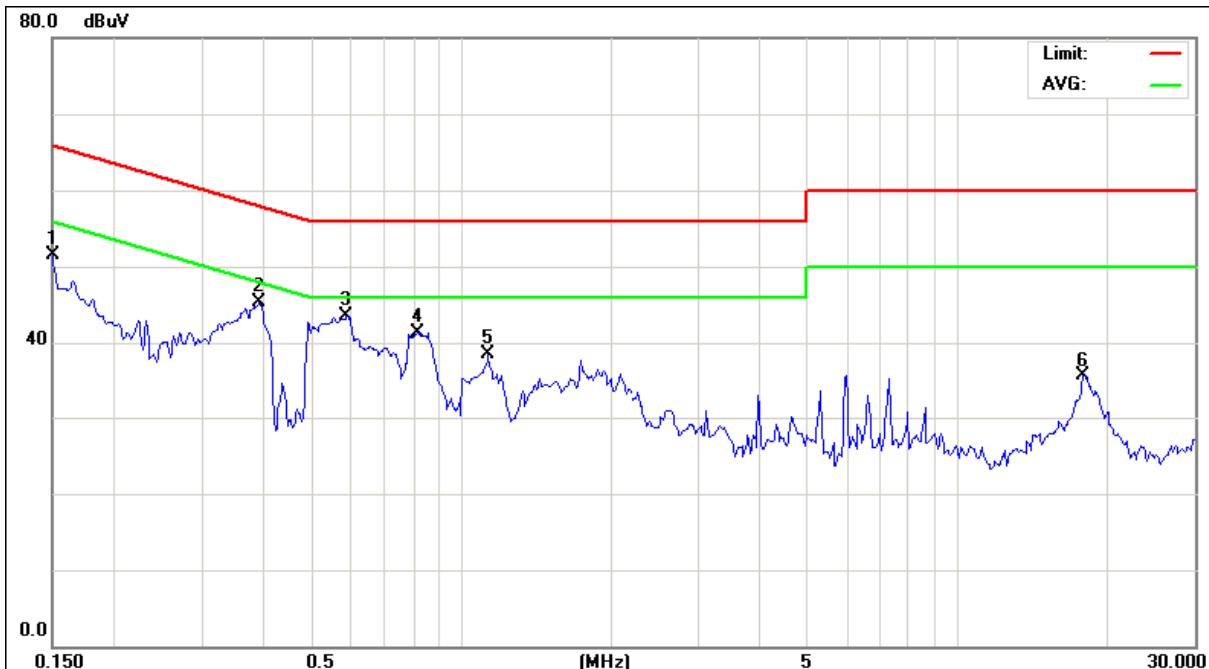


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name. :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Power :	AC 120V/60Hz
Test Mode :	Line in		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Line	51.47	*	66.00	56.00	-14.53	(QP)
0.39	Line	45.34	*	58.02	48.02	-12.68	(QP)
0.59	Line	43.49	*	56.00	46.00	-12.51	(QP)
0.81	Line	41.40	*	56.00	46.00	-14.60	(QP)
1.13	Line	38.53	*	56.00	46.00	-17.47	(QP)
17.93	Line	35.58	*	60.00	50.00	-24.42	(QP)

## Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “\*” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.





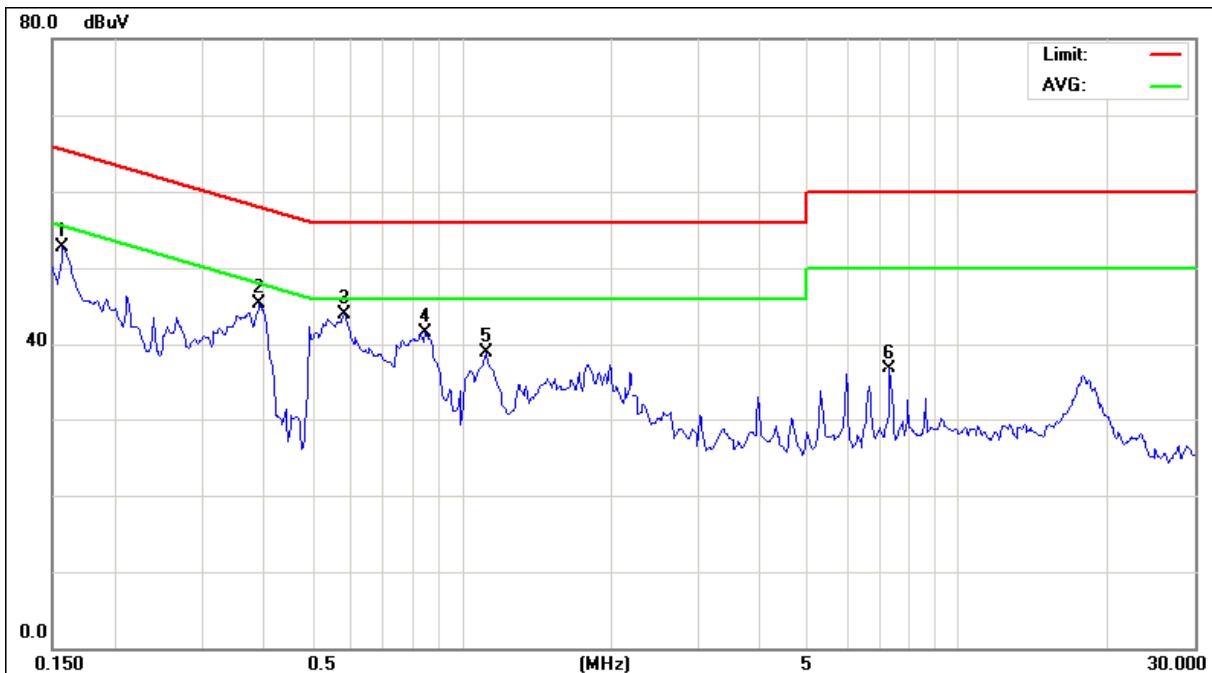
EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name. :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Power :	AC 120V/60Hz
Test Mode :	Line in		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.16	Neutral	52.68	*	65.58	55.58	-12.90	(QP)
0.39	Neutral	45.28	*	58.02	48.02	-12.74	(QP)
0.58	Neutral	43.91	*	56.00	46.00	-12.09	(QP)
0.85	Neutral	41.48	*	56.00	46.00	-14.52	(QP)
1.12	Neutral	38.85	*	56.00	46.00	-17.15	(QP)
7.29	Neutral	36.75	*	60.00	50.00	-23.25	(QP)

**Remark**

(1) All readings are QP Mode value unless otherwise stated AVG in column of **Note**. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “ \* ” marked in AVG Mode column of Interference Voltage Measured.

(2) Measuring frequency range from 150KHz to 30MHz.



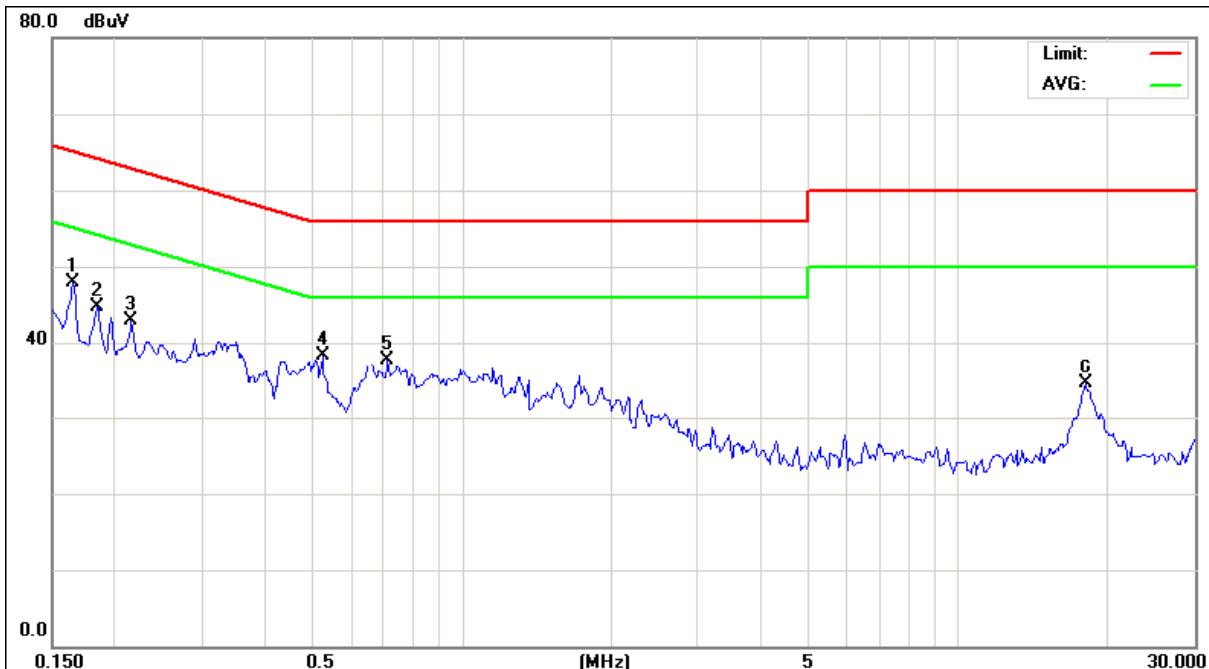


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name. :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Power :	AC 120V/60Hz
Test Mode :	iPod in		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.17	Line	47.89	*	65.18	55.18	-17.29	(QP)
0.19	Line	44.76	*	64.25	54.25	-19.49	(QP)
0.22	Line	42.88	*	62.96	52.96	-20.08	(QP)
0.53	Line	38.26	*	56.00	46.00	-17.74	(QP)
0.71	Line	37.62	*	56.00	46.00	-18.38	(QP)
18.09	Line	34.42	*	60.00	50.00	-25.58	(QP)

**Remark**

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “ \* ” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.





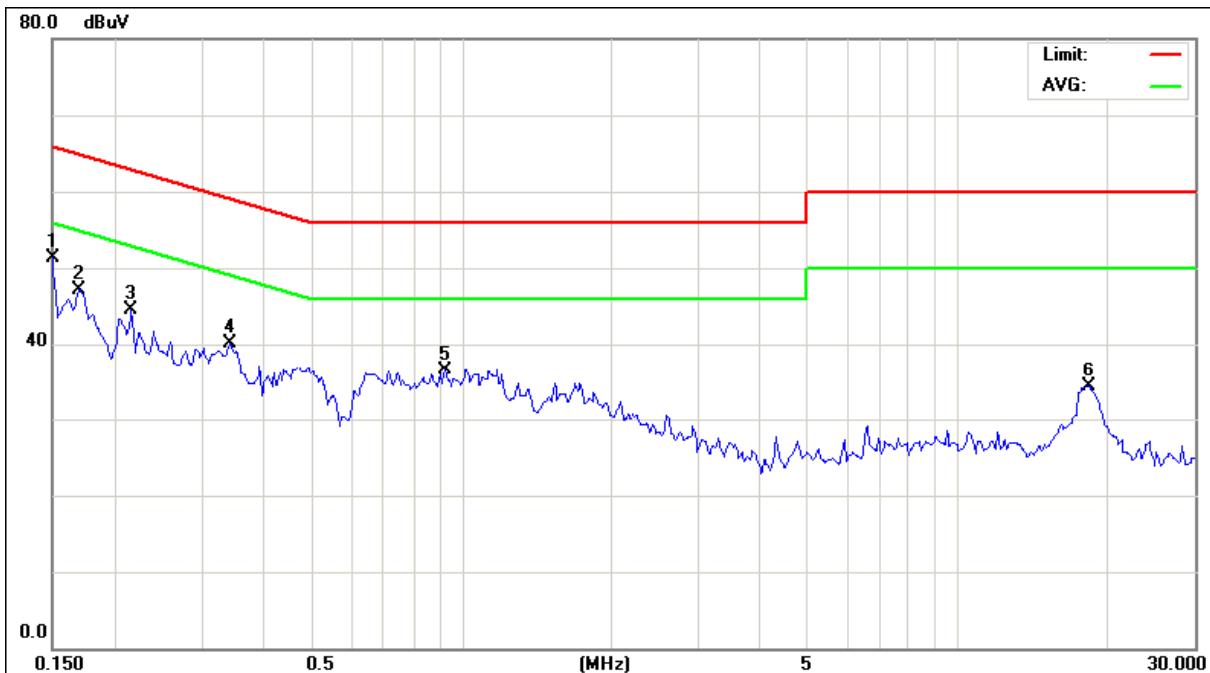
EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name. :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Power :	AC 120V/60Hz
Test Mode :	iPod in		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Neutral	51.40	*	66.00	56.00	-14.60	(QP)
0.17	Neutral	47.14	*	64.98	54.98	-17.84	(QP)
0.22	Neutral	44.52	*	62.96	52.96	-18.44	(QP)
0.34	Neutral	40.12	*	59.17	49.17	-19.05	(QP)
0.92	Neutral	36.56	*	56.00	46.00	-19.44	(QP)
18.39	Neutral	34.39	*	60.00	50.00	-25.61	(QP)

**Remark**

(1) All readings are QP Mode value unless otherwise stated AVG in column of **Note**. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “\*” marked in AVG Mode column of Interference Voltage Measured.

(2) Measuring frequency range from 150KHz to 30MHz.





## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower



## 4.2.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	R&S	HFH2-Z2	830749/020	May.26.2012
2	Bi-log Antenna	Schwarbeck	VULB9160	9160-3232	May.25.2012
3	Horn Antenna	ETS	3115	00075789	May.11.2012
4	Broad-Band Horn Antenna	Schwarbeck	BBHA 9170	9170340	Dec.14.2012
5	Amplifier	HP	8447D	2944A09673	May.25.2012
6	Amplifier	Agilent	8449B	3008A02274	May.25.2012
7	Amplifier	EMC	EMC2654045	980039	Aug.11.2012
8	Test Receiver	R&S	ESCI	100895	May.25.2012
9	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012
10	Test Cable	N/A	C-01_CB03	N/A	May.04.2012
11	Test Cable	HUBER+SUHNER	SUCOFLEX_8 m	313794/4	Apr.11.2012
12	Controller	CT	SC100	N/A	N/A

Remark: " N/A" denotes No Model Name / Serial No. and No Calibration specified.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/PK/AV
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



#### **4.2.3 TEST PROCEDURE**

The EUT shall be placed on the horizontal ground reference plane, orientated for normal use, but separated from metallic contact with the ground reference plane by up to 15 cm of insulation. The cables shall be insulated (by up to 15 cm) from the horizontal ground reference plane. If the equipment requires a dedicated ground connection, then this shall be provided and bonded to the horizontal ground plane. Intra-unit cables (between units forming the EUT or between the EUT and associated equipment) shall drape to, but remain insulated from, the horizontal ground reference plane. Any excess shall either be folded at the cable centre into a bundle no longer than 0,4 m or arranged in a serpentine fashion. If an intra-unit cable length is not long enough to drape to the horizontal ground reference plane but drapes closer than 0,4 m, then the excess shall be folded at the cable centre into a bundle no longer than 0,4 m. The bundle shall be positioned such that it is either 0,4 m above the horizontal ground reference plane or at the height of the cable entry or connection point if this is within 0,4 m of the horizontal ground reference plane (See Figures 11).

#### **4.2.4 DEVIATION FROM TEST STANDARD**

No deviation

#### 4.2.5 TEST SETUP

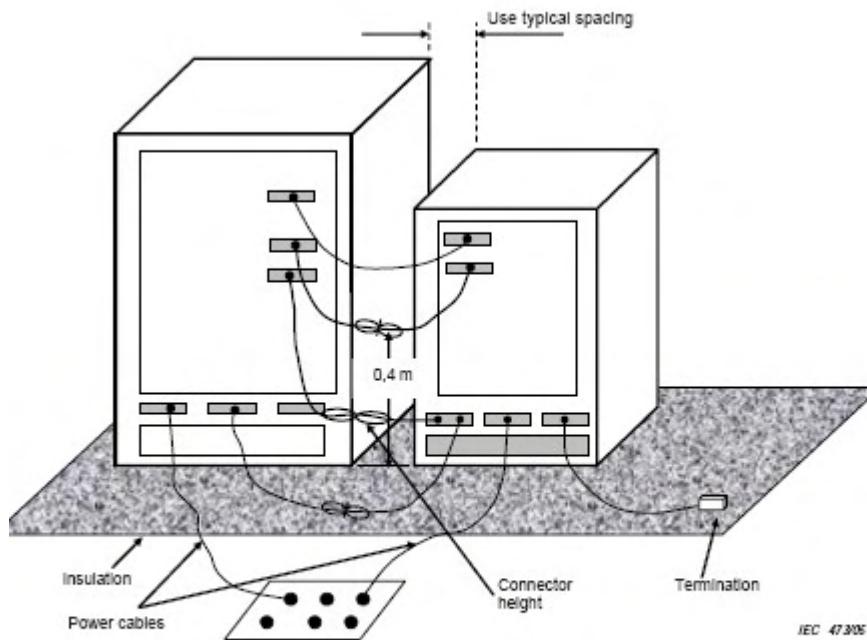


Figure 11 – Example test arrangement for floor-standing equipment  
(radiated emission measurement)

Figures 11

#### 4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

**4.2.7 TEST RESULTS (BELOW 30MHZ)**

EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	46 %
Pressure :	1010 Pa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz –CH00-1Mbps		

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Note
0.05	0°	21.25	22.71	43.96	114.52	-70.56	AVG
0.05	0°	23.87	22.71	46.58	134.52	-87.94	PK
0.49	0°	25.35	19.83	45.18	93.87	-48.69	AVG
0.49	0°	27.88	19.83	47.71	113.87	-66.16	PK
1.53	0°	23.35	19.55	42.90	63.90	-21.01	QP
4.76	0°	19.98	18.39	38.37	69.54	-31.17	QP
10.57	0°	26.67	17.83	44.50	69.54	-25.04	QP
15.46	0°	21.98	18.04	40.02	69.54	-29.52	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Note
0.31	90°	15.38	20.27	35.65	97.92	-62.27	AVG
0.31	90°	16.76	20.27	37.03	117.92	-80.89	PK
0.79	90°	21.38	20.43	41.81	69.63	-27.82	QP
1.56	90°	25.53	19.54	45.07	63.74	-18.67	QP
7.24	90°	22.57	18.02	40.59	69.54	-28.95	QP
12.33	90°	21.53	17.94	39.47	69.54	-30.07	QP
18.28	90°	30.05	17.64	47.69	69.54	-21.85	QP

Remark :

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported .
- (2) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB); °
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor. °

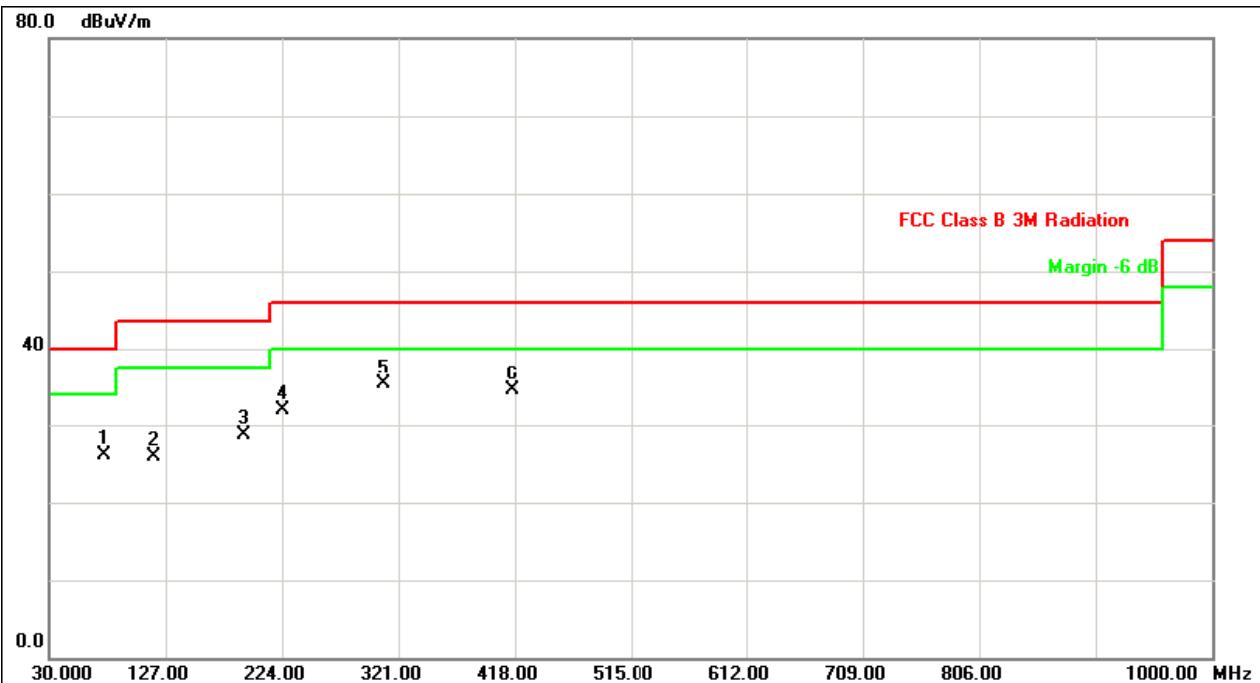
**4.2.8 TEST RESULTS (BETWEEN30 – 1000 MHZ)**

EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz –CH00-1Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
76.08	V	45.00	-18.86	26.14	40.00	- 13.86	
117.30	V	44.18	-18.30	25.88	43.50	- 17.62	
192.48	V	45.49	-16.69	28.80	43.50	- 14.70	
224.00	V	47.69	-15.76	31.93	43.50	- 11.57	
308.88	V	47.25	-11.85	35.40	46.00	- 10.60	
415.58	V	43.32	-8.74	34.58	46.00	- 11.42	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



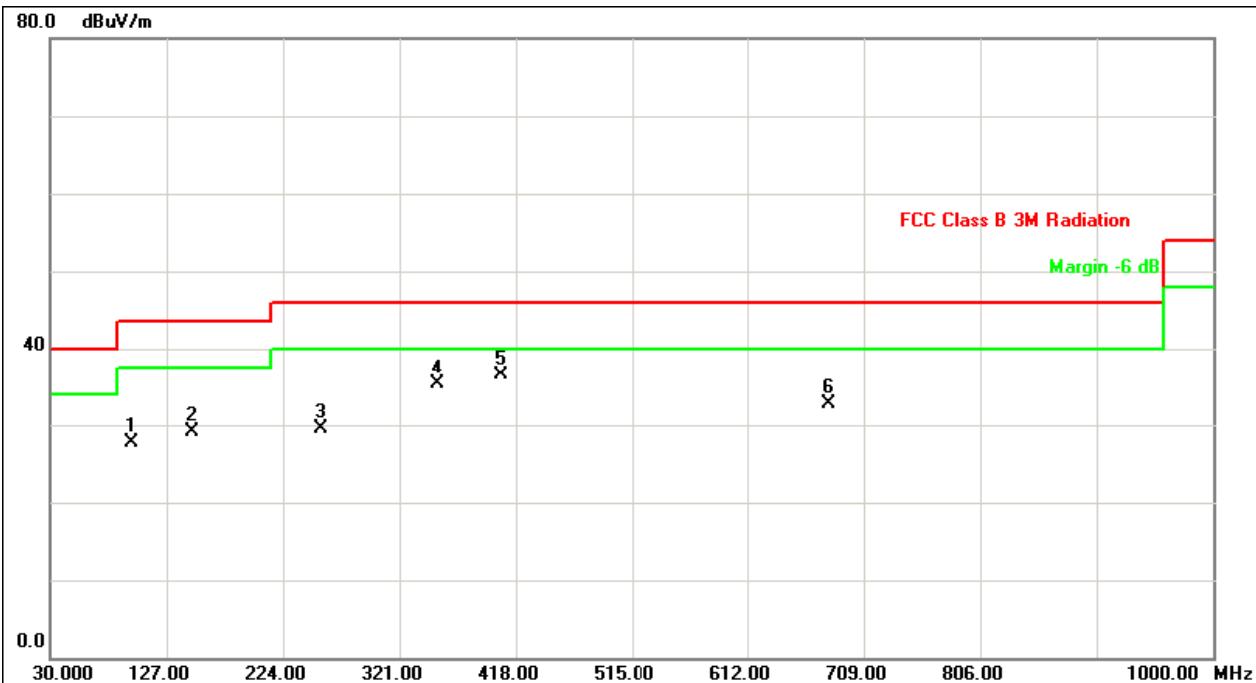


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz -CH00-1Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
97.90	H	46.10	-18.45	27.65	43.50	- 15.85	
148.83	H	46.78	-17.58	29.20	43.50	- 14.30	
255.53	H	43.67	-14.18	29.49	46.00	- 16.51	
352.53	H	46.10	-10.75	35.35	46.00	- 10.65	
405.88	H	45.33	-8.92	36.41	46.00	- 9.59	
679.90	H	35.89	-3.24	32.65	46.00	- 13.35	

## Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



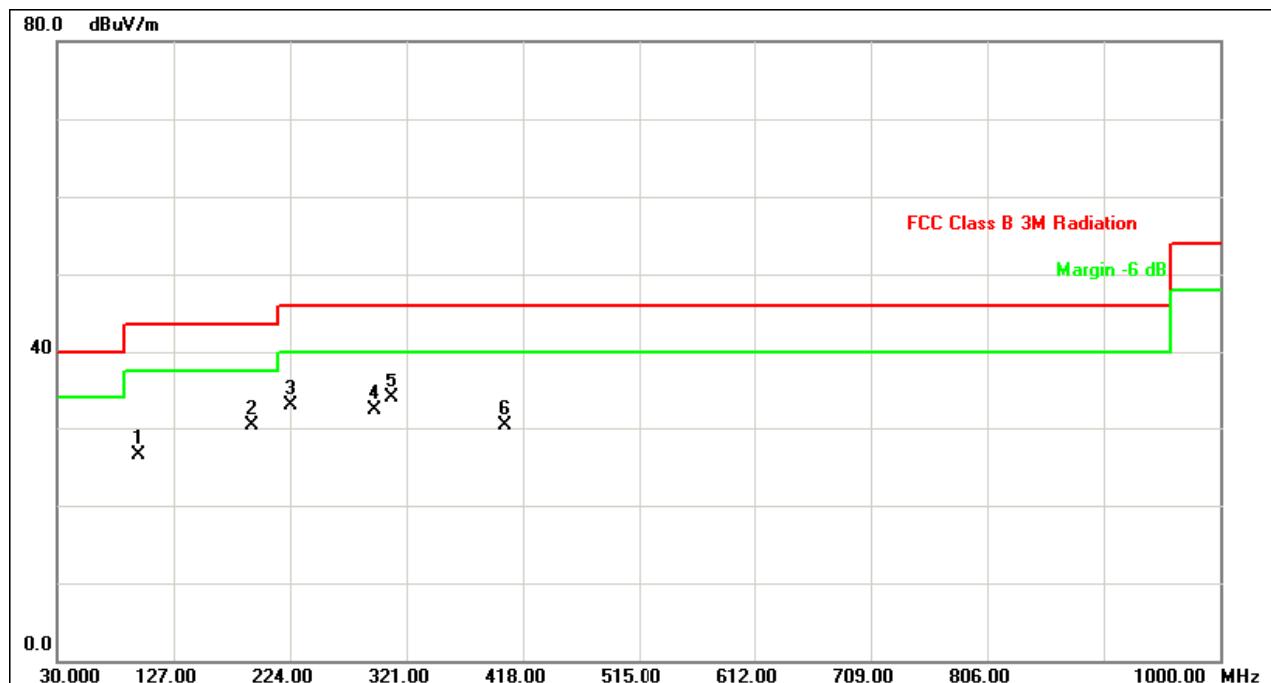


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz -CH39-1Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
97.90	V	45.00	-18.45	26.55	43.50	- 16.95	
192.48	V	46.99	-16.69	30.30	43.50	- 13.20	
224.00	V	48.69	-15.76	32.93	46.00	- 13.07	
294.33	V	44.32	-12.06	32.26	46.00	- 13.74	
308.88	V	45.75	-11.85	33.90	46.00	- 12.10	
403.45	V	39.20	-8.96	30.24	46.00	- 15.76	

## Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



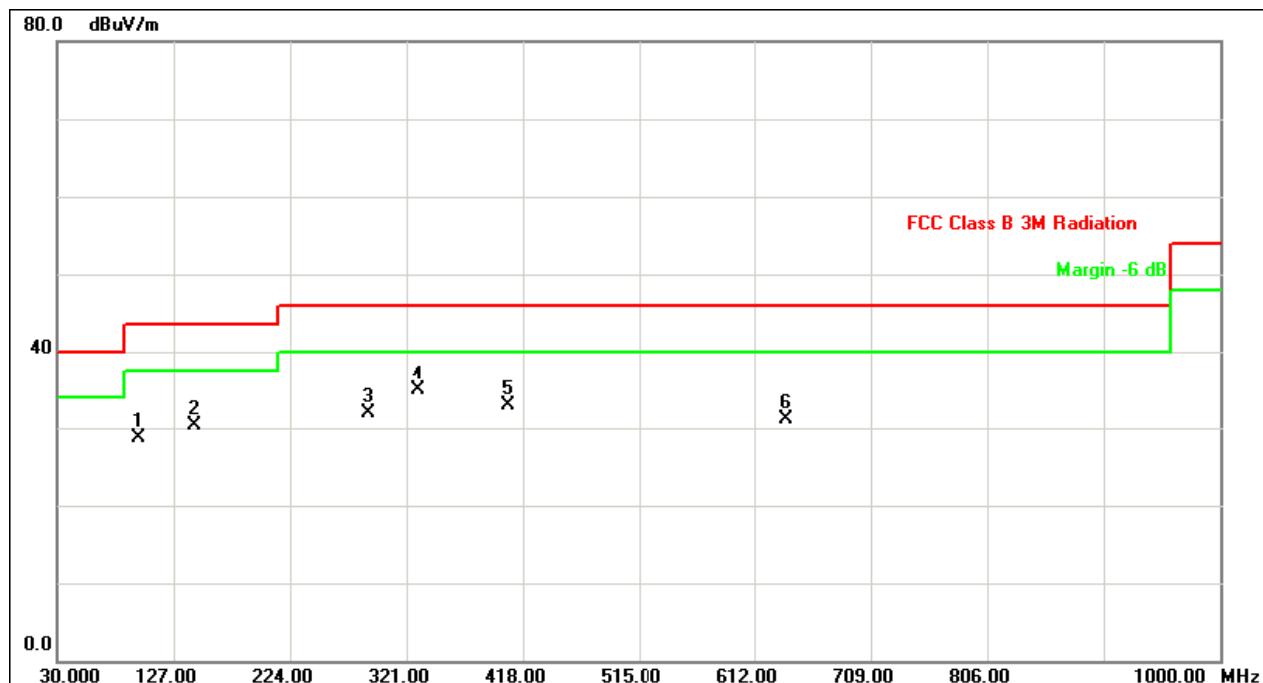


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz -CH39-1Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
97.90	H	47.10	-18.45	28.65	43.50	- 14.85	
143.98	H	47.87	-17.66	30.21	43.50	- 13.29	
289.48	H	43.99	-12.08	31.91	46.00	- 14.09	
330.70	H	46.30	-11.32	34.98	46.00	- 11.02	
405.88	H	41.83	-8.92	32.91	46.00	- 13.09	
638.68	H	34.59	-3.55	31.04	46.00	- 14.96	

## Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



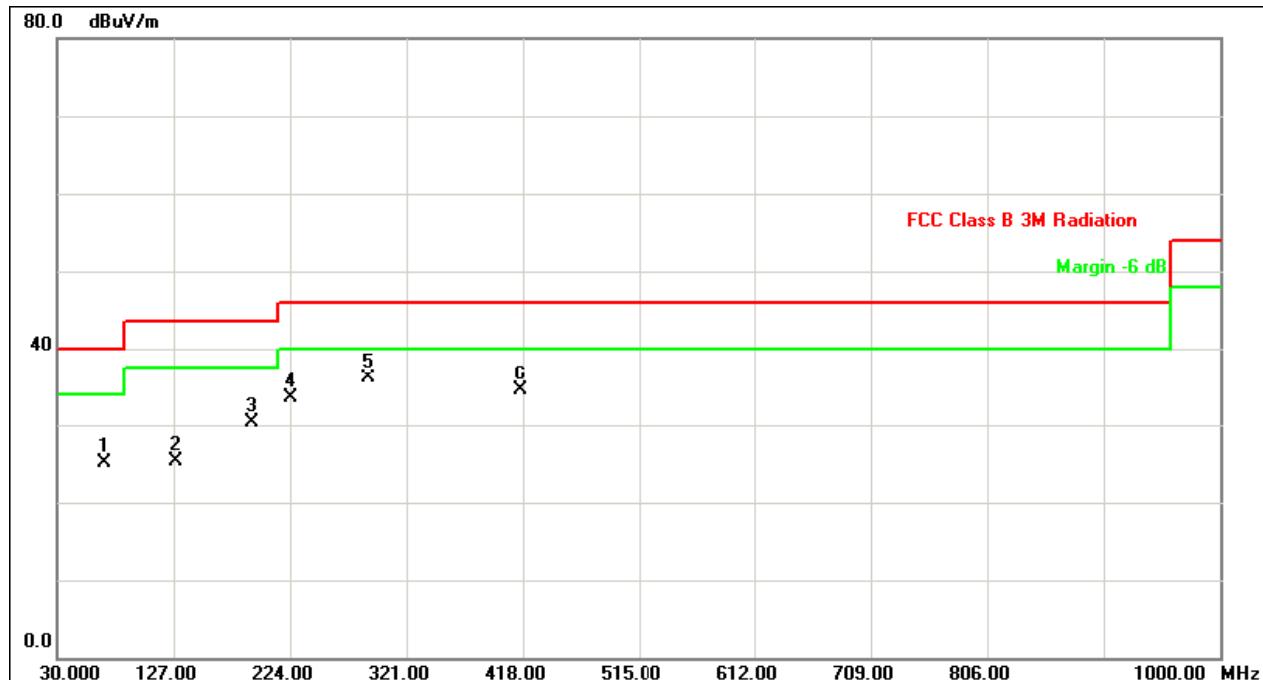


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz -CH78-1Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
68.80	V	43.32	-18.17	25.15	40.00	- 14.85	
129.43	V	43.35	-18.12	25.23	43.50	- 18.27	
192.48	V	46.99	-16.90	30.09	43.50	- 13.41	
224.00	V	49.19	-15.76	33.43	46.00	- 12.57	
289.48	V	48.20	-12.08	36.12	46.00	- 9.88	
415.58	V	43.32	-8.74	34.58	46.00	- 11.42	

**Remark :**

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



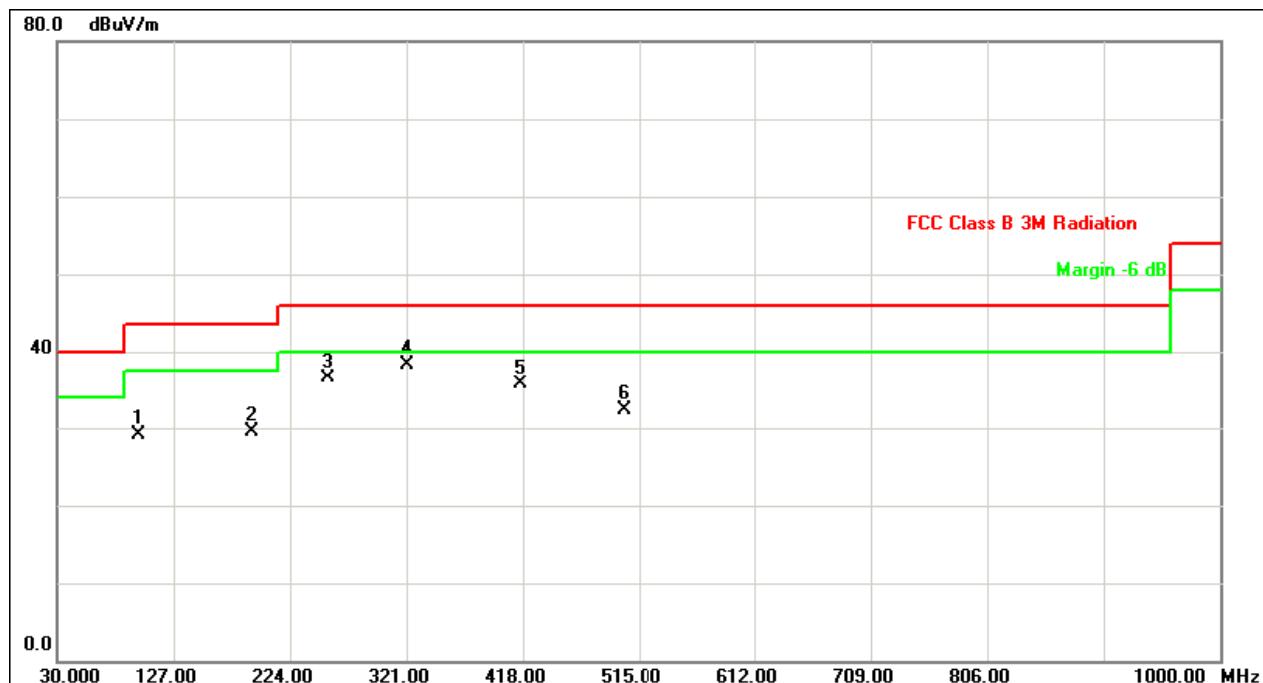


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz -CH78-1Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
97.90	H	47.60	-18.45	29.15	43.50	- 14.35	
192.48	H	46.18	-16.69	29.49	43.50	- 14.01	
355.53	H	50.67	-14.18	36.49	46.00	- 9.51	
321.00	H	49.82	-11.55	38.27	46.00	- 7.73	
418.58	H	44.45	-8.74	35.71	46.00	- 10.29	
502.88	H	39.53	-7.25	32.28	46.00	- 13.72	

#### Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



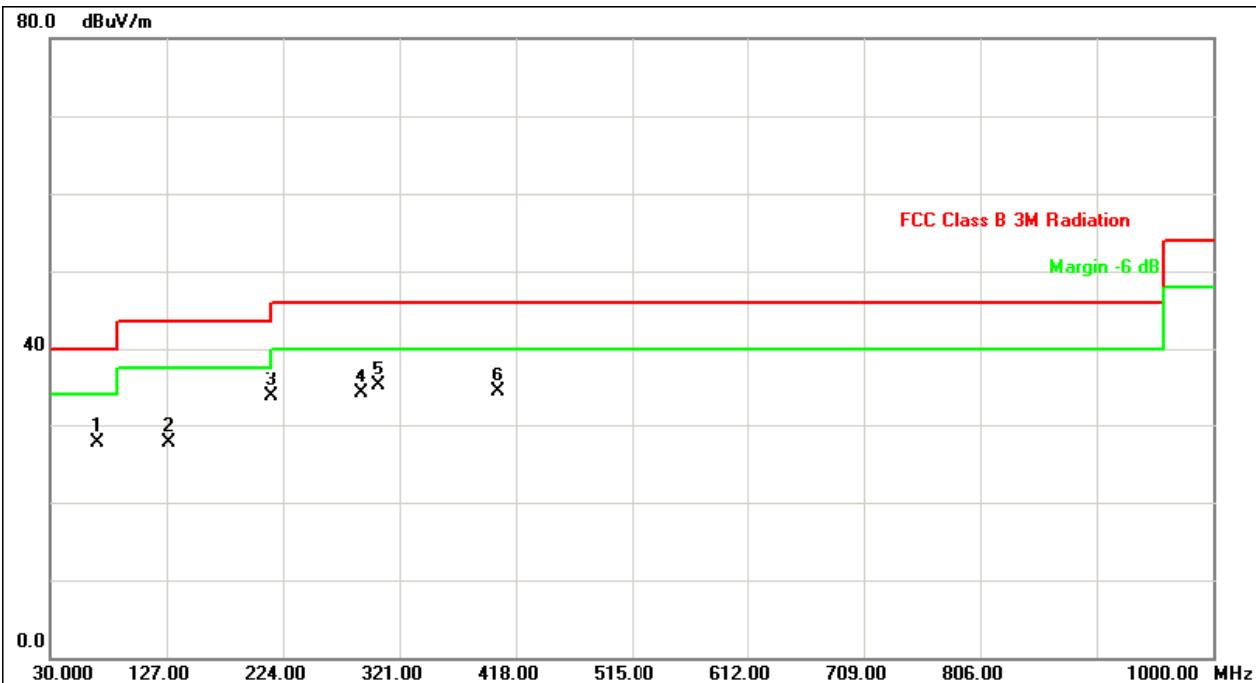


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz -CH00-3Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
68.80	V	45.82	-18.17	27.65	40.00	- 12.35	
129.43	V	45.85	-18.12	27.73	43.50	- 15.77	
214.30	V	49.76	-16.11	33.65	43.50	- 9.85	
289.48	V	46.20	-12.08	34.12	46.00	- 11.88	
304.03	V	47.12	-11.97	35.15	46.00	- 10.85	
403.45	V	43.20	-8.96	34.24	46.00	- 11.76	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



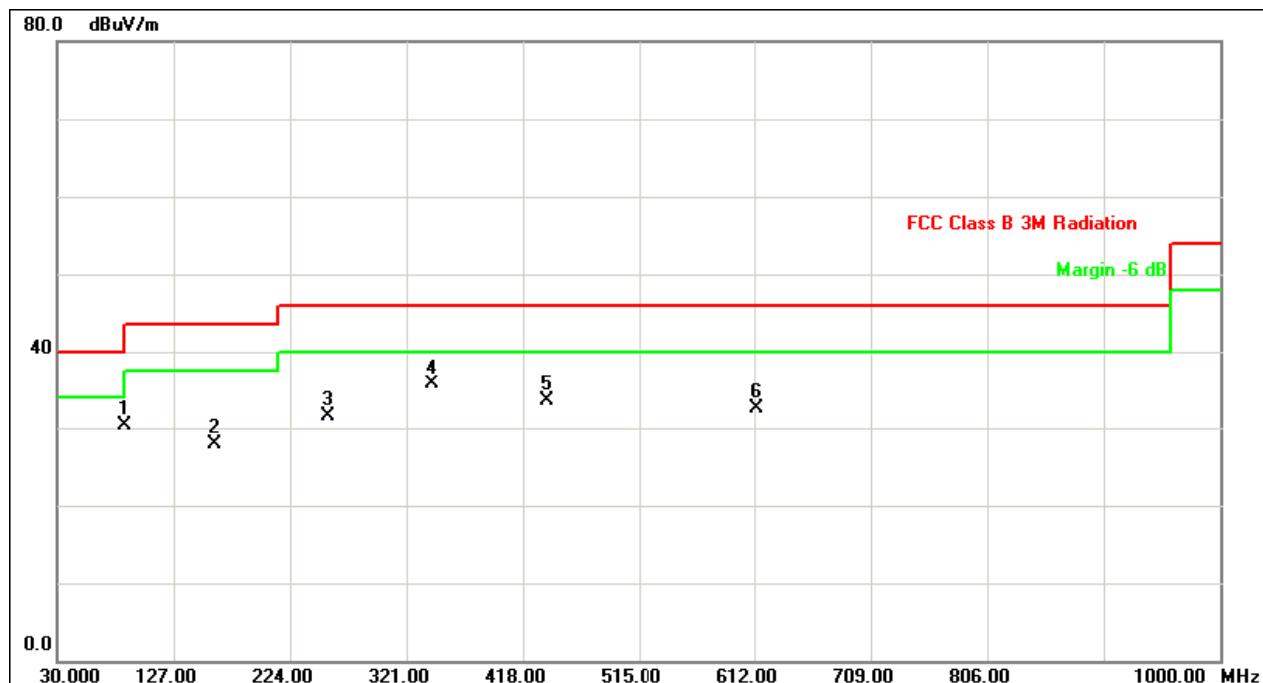


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz -CH00-3Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
85.78	H	49.32	-19.11	30.21	40.00	- 9.79	
160.95	H	45.48	-17.62	27.86	43.50	- 15.64	
255.53	H	45.67	-14.18	31.49	46.00	- 14.51	
342.83	H	46.76	-11.01	35.75	46.00	- 10.25	
437.40	H	41.95	-8.35	33.60	46.00	- 12.40	
614.43	H	36.54	-4.00	32.54	46.00	- 13.46	

## Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



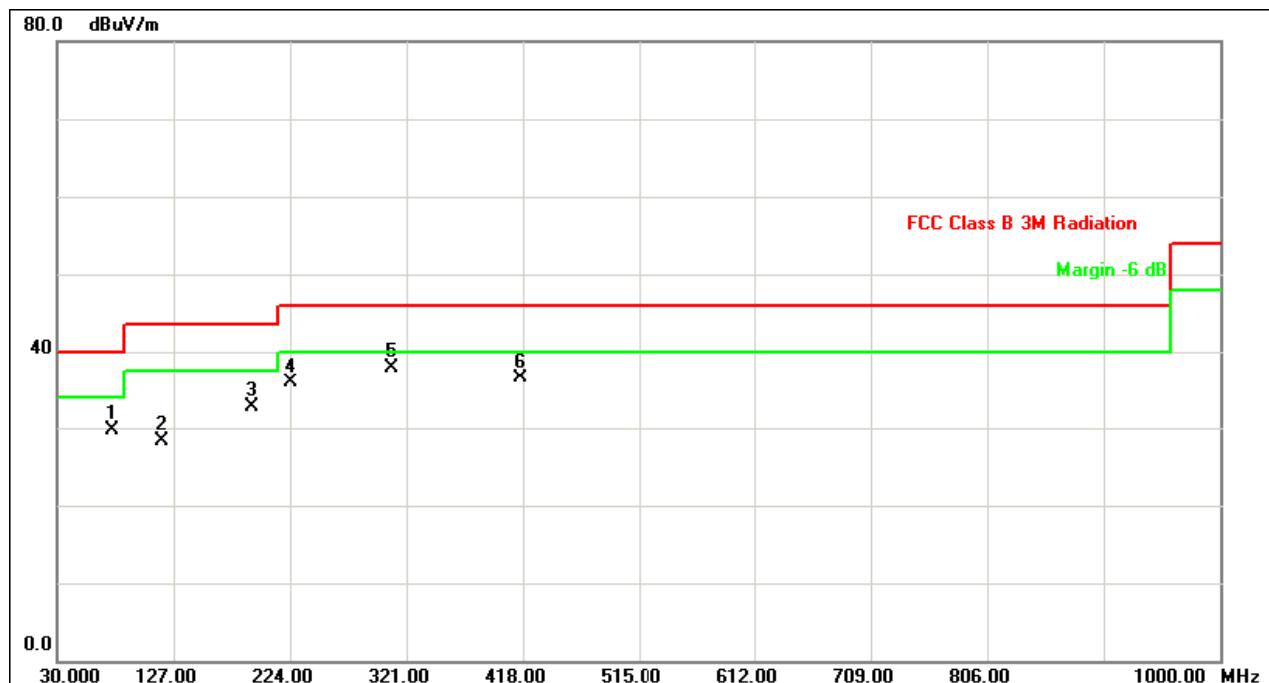


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz -CH39-3Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
76.08	V	48.50	-18.86	29.64	40.00	- 10.36	
117.30	V	46.68	-18.30	28.38	43.50	- 15.12	
192.48	V	49.49	-16.69	32.80	43.50	- 10.70	
224.00	V	51.69	-15.76	35.93	46.00	- 10.07	
308.88	V	49.75	-11.85	37.90	46.00	- 8.10	
415.58	V	45.32	-8.74	36.58	46.00	- 9.42	

## Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



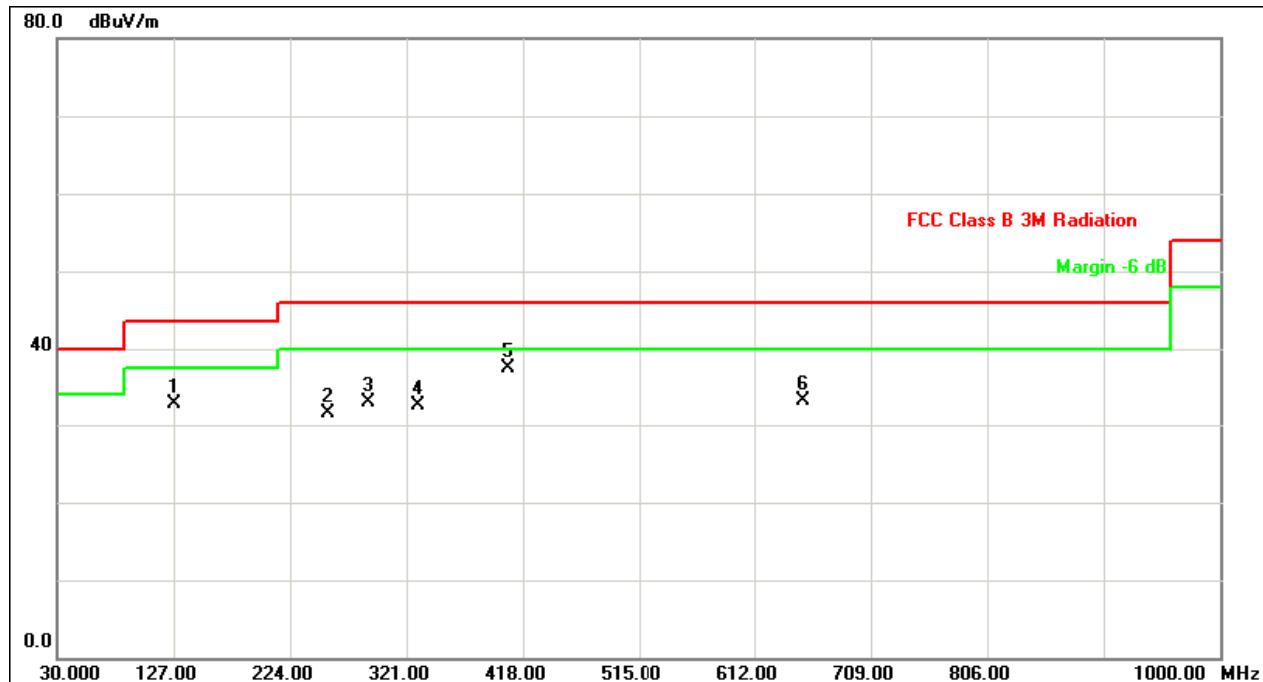


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz -CH39-3Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
127.00	H	50.95	-18.16	32.79	43.50	- 10.71	
255.53	H	45.67	-14.18	31.49	46.00	- 14.51	
289.48	H	44.99	-12.08	32.91	46.00	- 13.09	
330.70	H	43.80	-11.32	32.48	46.00	- 13.52	
405.88	H	46.33	-8.92	37.41	46.00	- 8.59	
653.23	H	36.46	-3.33	33.13	46.00	- 12.87	

## Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



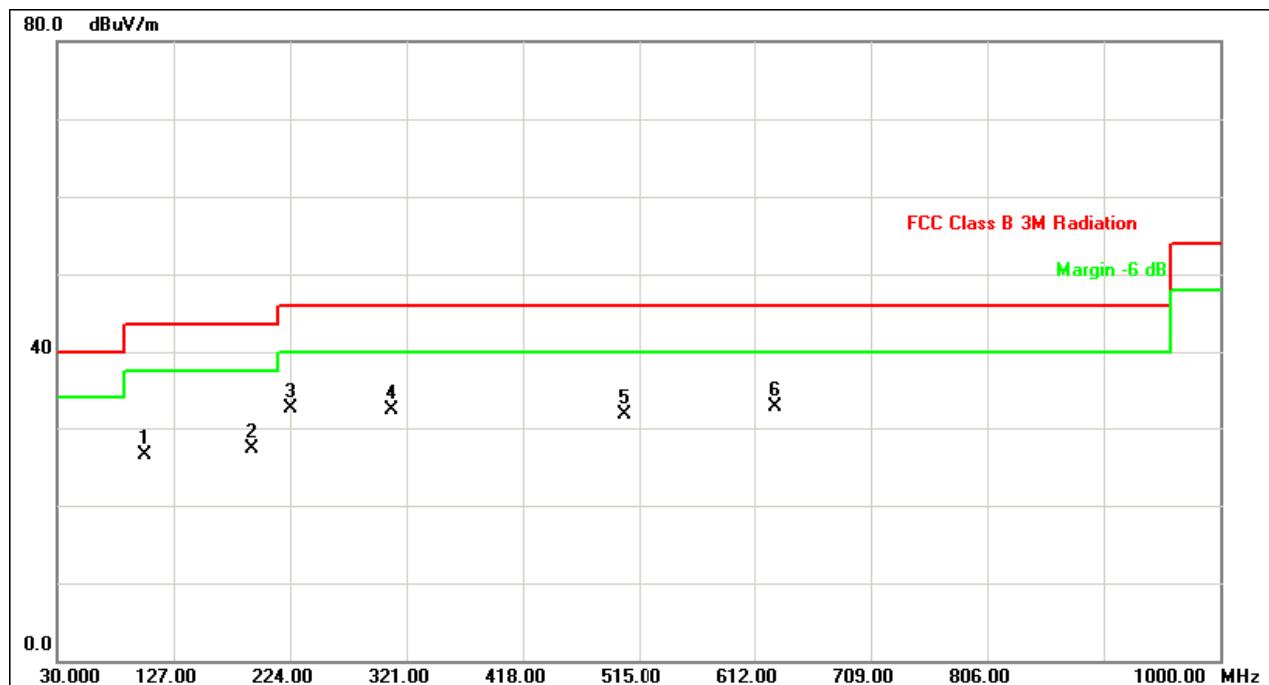


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz -CH78-3Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
102.75	V	44.90	-18.39	26.51	43.50	- 16.99	
192.48	V	43.99	-16.69	27.30	43.50	- 16.20	
224.00	V	48.19	-15.76	32.43	46.00	- 13.57	
308.88	V	44.25	-11.85	32.40	46.00	- 13.60	
502.88	V	38.95	-7.25	31.70	46.00	- 14.30	
358.98	V	36.37	-3.73	32.64	46.00	- 13.36	

**Remark :**

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



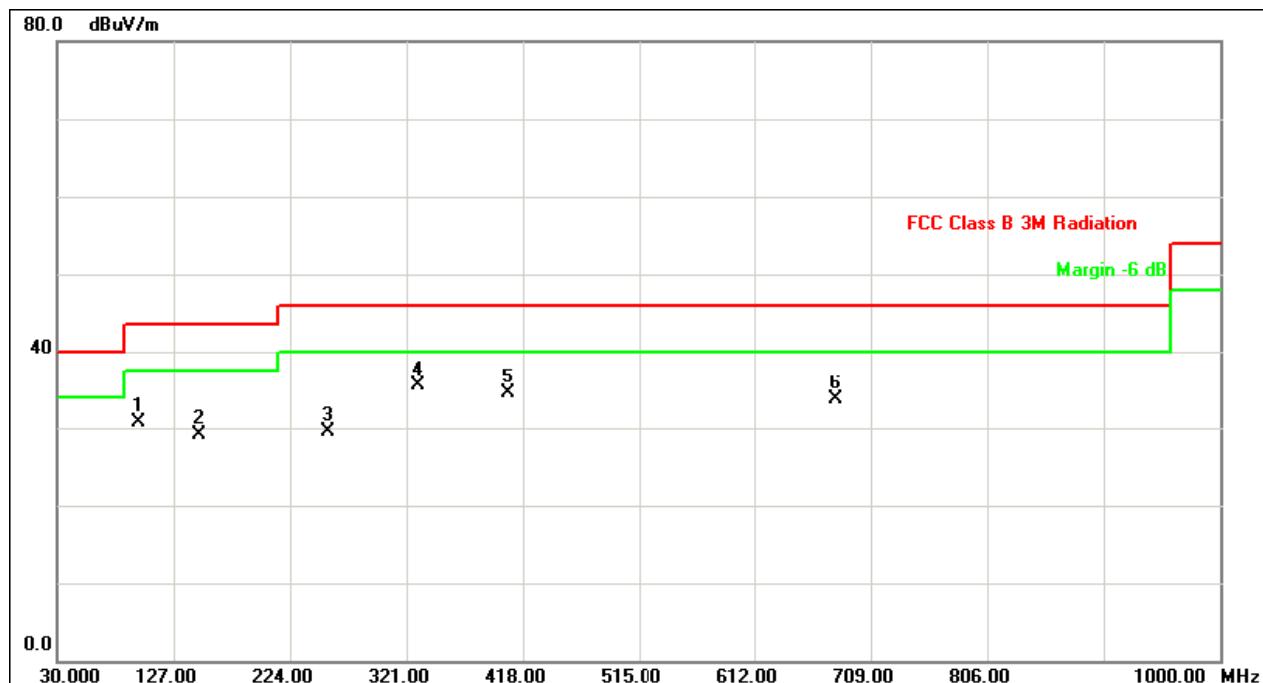


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz -CH78-3Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
97.90	H	49.10	-18.45	30.65	43.50	- 12.85	
148.83	H	46.78	-17.58	29.20	43.50	- 14.30	
255.53	H	43.67	-14.18	29.49	46.00	- 16.51	
330.70	H	46.80	-11.32	35.48	46.00	- 10.52	
405.88	H	43.33	-8.92	34.41	46.00	- 11.59	
679.90	H	36.89	-3.24	33.65	46.00	- 12.35	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



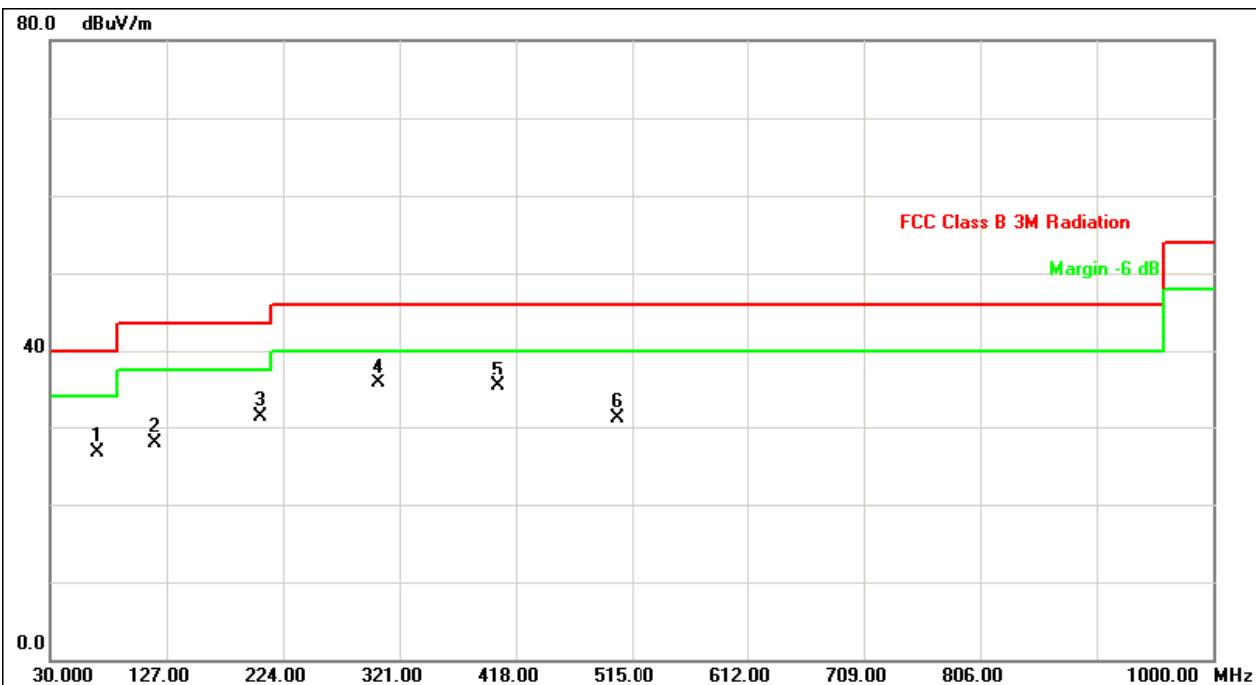


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	RX Mode 2402MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
68.80	V	44.82	-18.17	26.65	40.00	- 13.35	
117.30	V	46.18	-18.30	27.88	43.50	- 15.62	
204.60	V	47.73	-16.44	31.29	43.50	- 12.21	
304.03	V	47.62	-11.97	35.65	46.00	- 10.35	
403.45	V	44.20	-8.96	35.24	46.00	- 10.76	
502.88	V	38.45	-7.25	31.20	46.00	- 14.80	

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .



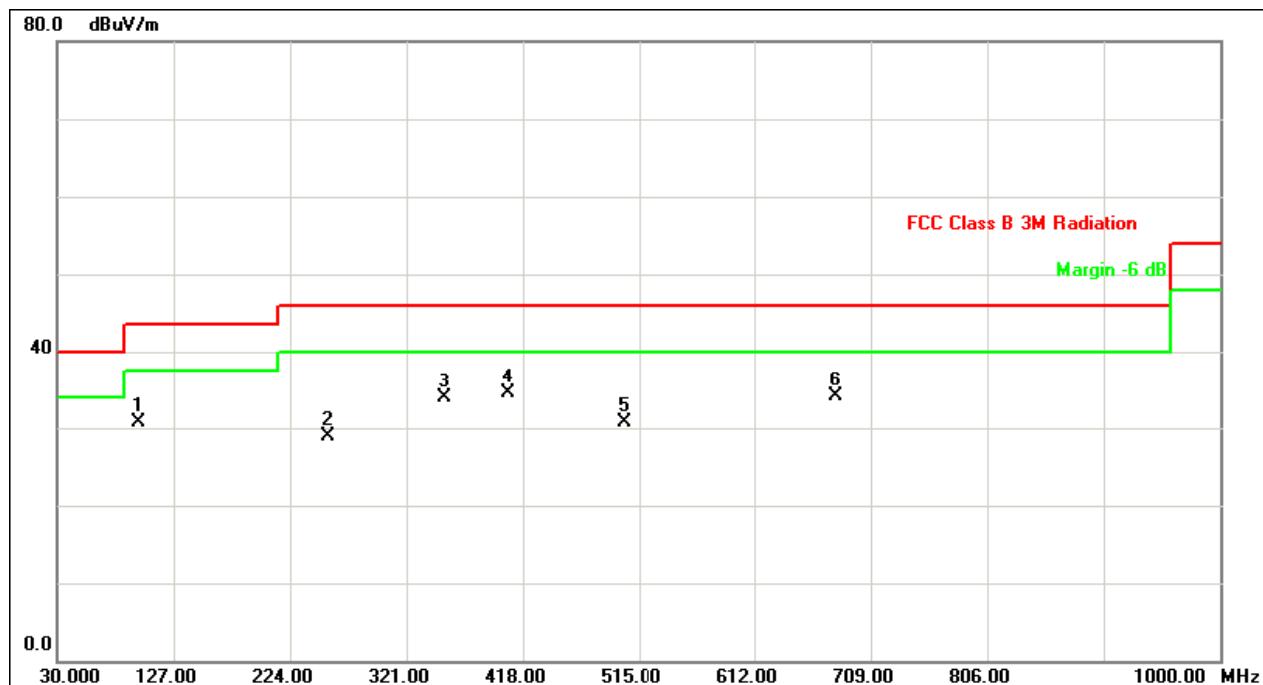


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	RX Mode 2402MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
97.90	H	49.10	-18.45	30.65	43.50	- 12.85	
255.53	H	43.17	-14.18	28.99	46.00	- 17.01	
352.53	H	44.60	-10.75	33.85	46.00	- 12.15	
405.88	H	43.33	-8.92	34.41	46.00	- 11.59	
502.88	H	38.03	-7.25	30.78	46.00	- 15.22	
679.90	H	37.39	-3.24	34.15	46.00	- 11.85	

## Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz .
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .





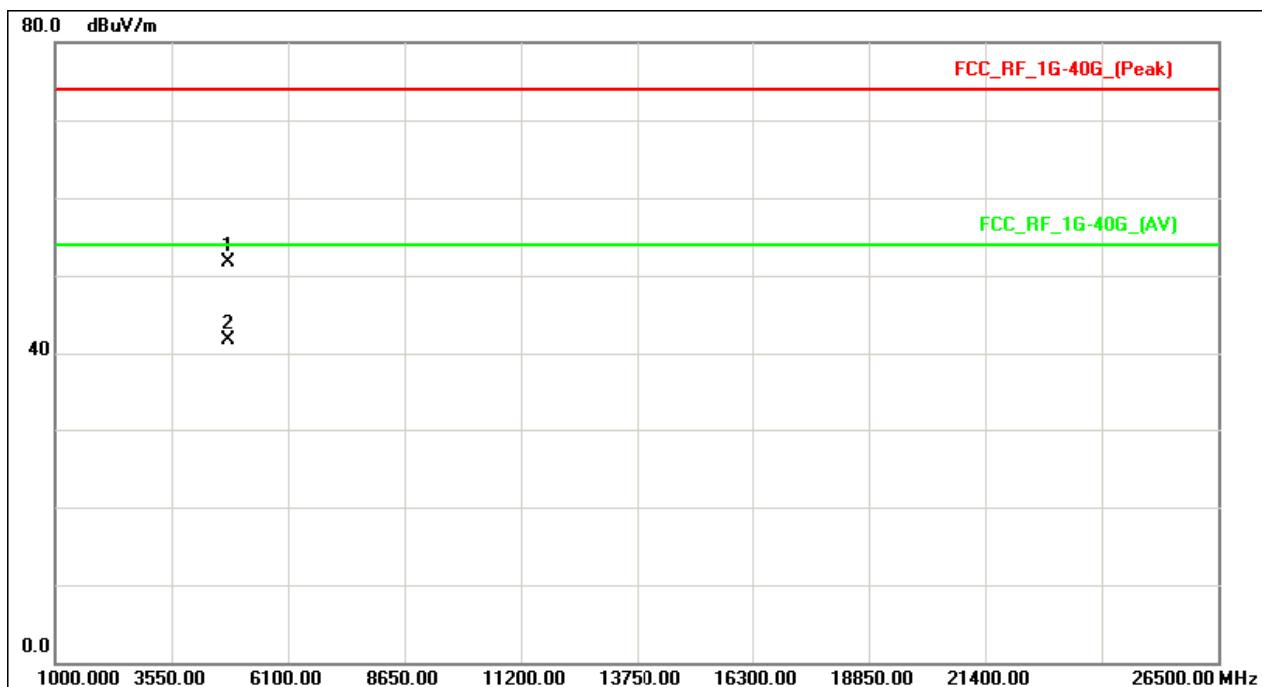
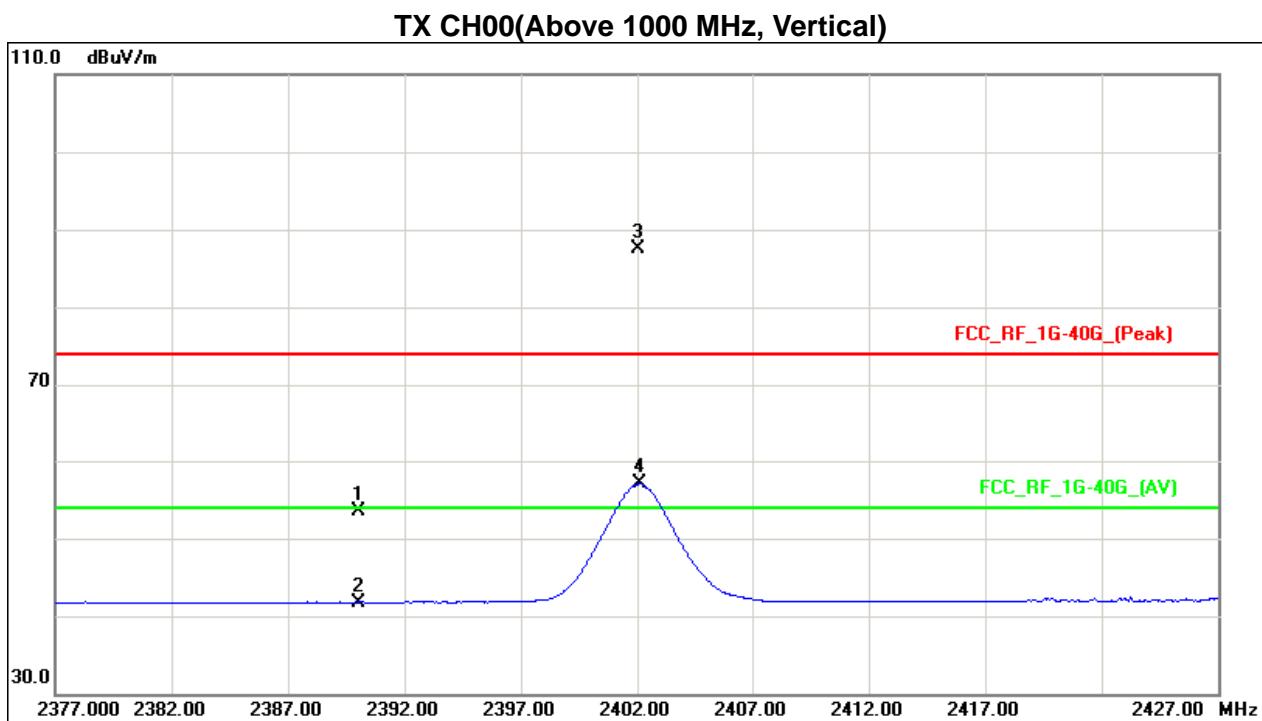
## 4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System			Model Name :	iP76		
Temperature :	23 °C			Relative Humidity :	55 %		
Pressure :	1010 hPa			Test Voltage :	AC 120V/60Hz		
Test Mode :	TX 2402MHz – CH 00-1Mbps						

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	21.97	10.26	31.54	53.51	41.80	74.00	54.00	X/E
<b>2402.10</b>	<b>V</b>	<b>55.92</b>	<b>25.46</b>	<b>31.56</b>	<b>87.48</b>	<b>57.02</b>			<b>X/F</b>
4804.08	V	45.84	35.77	5.94	51.78	41.71	74.00	54.00	X/H

### Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna





EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz – CH 00-1Mbps		

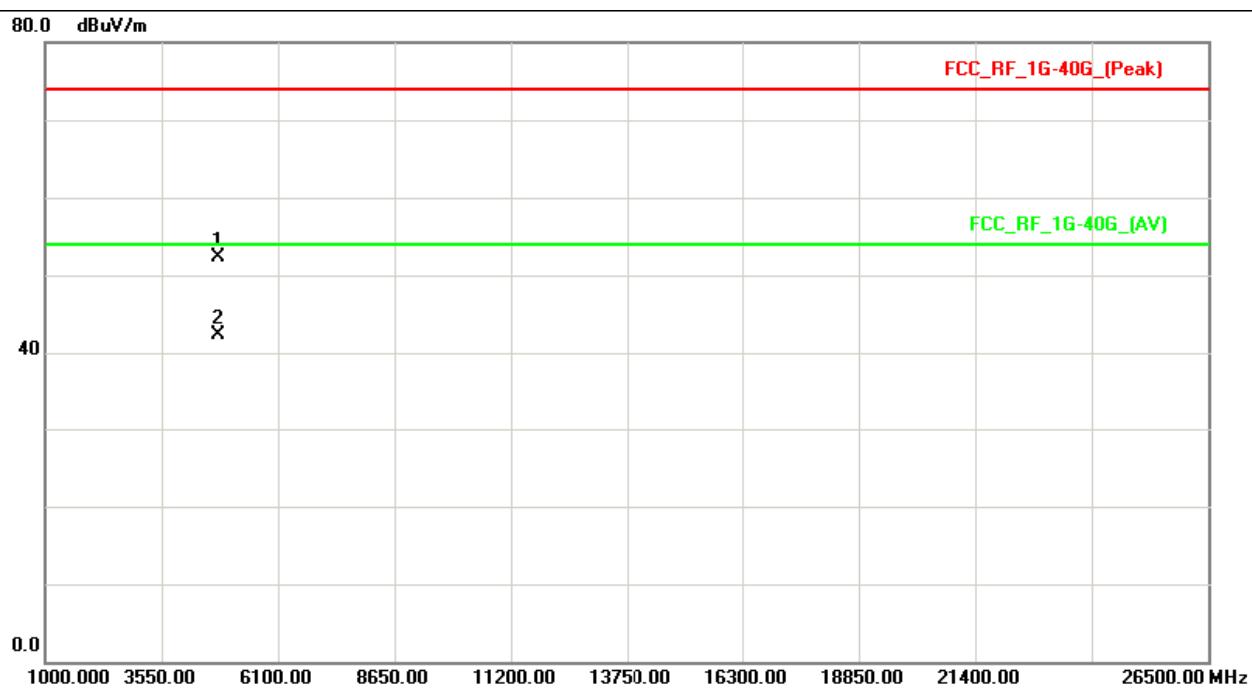
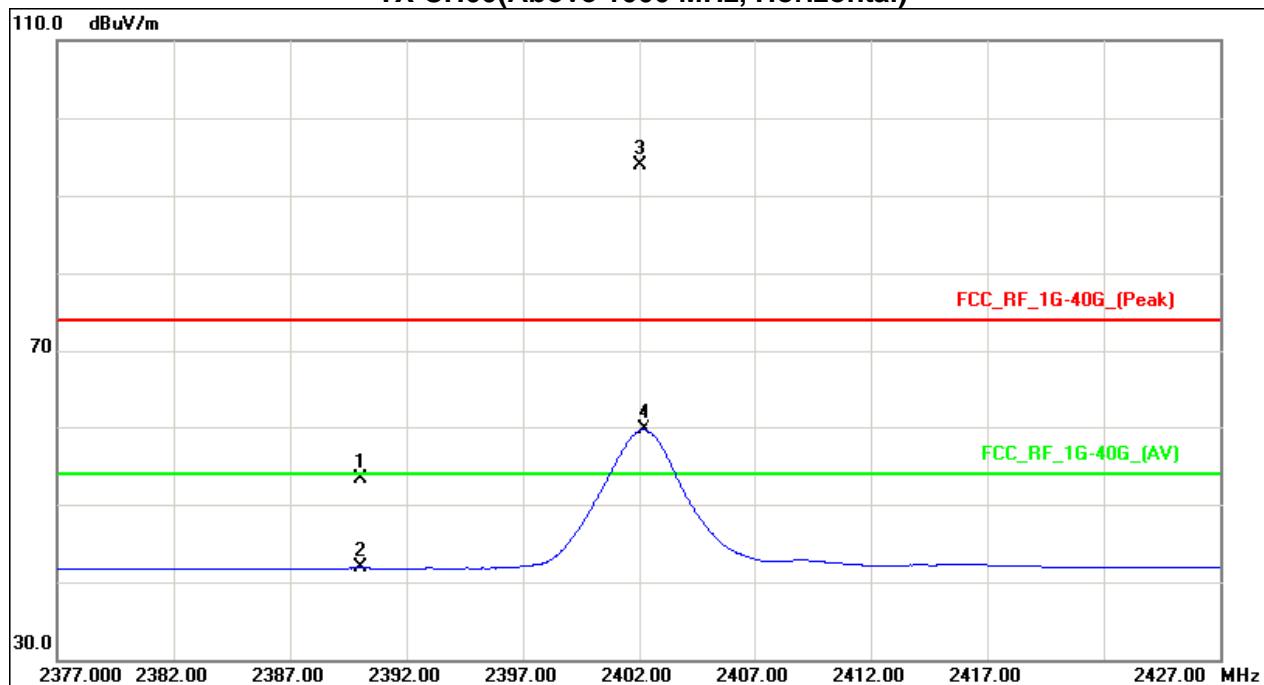
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	21.79	10.32	31.54	53.33	41.86	74.00	54.00	X/E
<b>2402.20</b>	<b>H</b>	<b>62.39</b>	<b>28.09</b>	<b>31.56</b>	<b>93.95</b>	<b>59.65</b>			<b>X/F</b>
4803.92	H	46.46	36.31	5.94	52.40	42.25	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



**TX CH00(Above 1000 MHz, Horizontal)**





EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System		Model Name :	iP76	
Temperature :	23 °C		Relative Humidity :	55 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX 2441MHz -CH39-1Mbps				

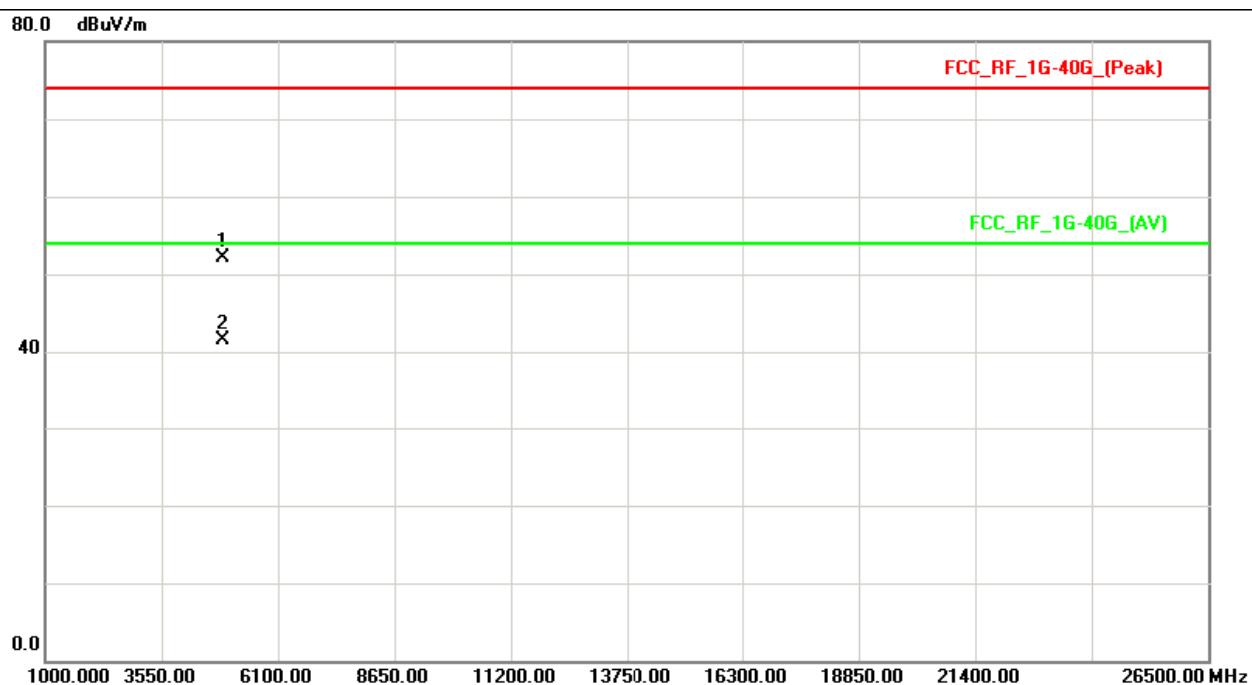
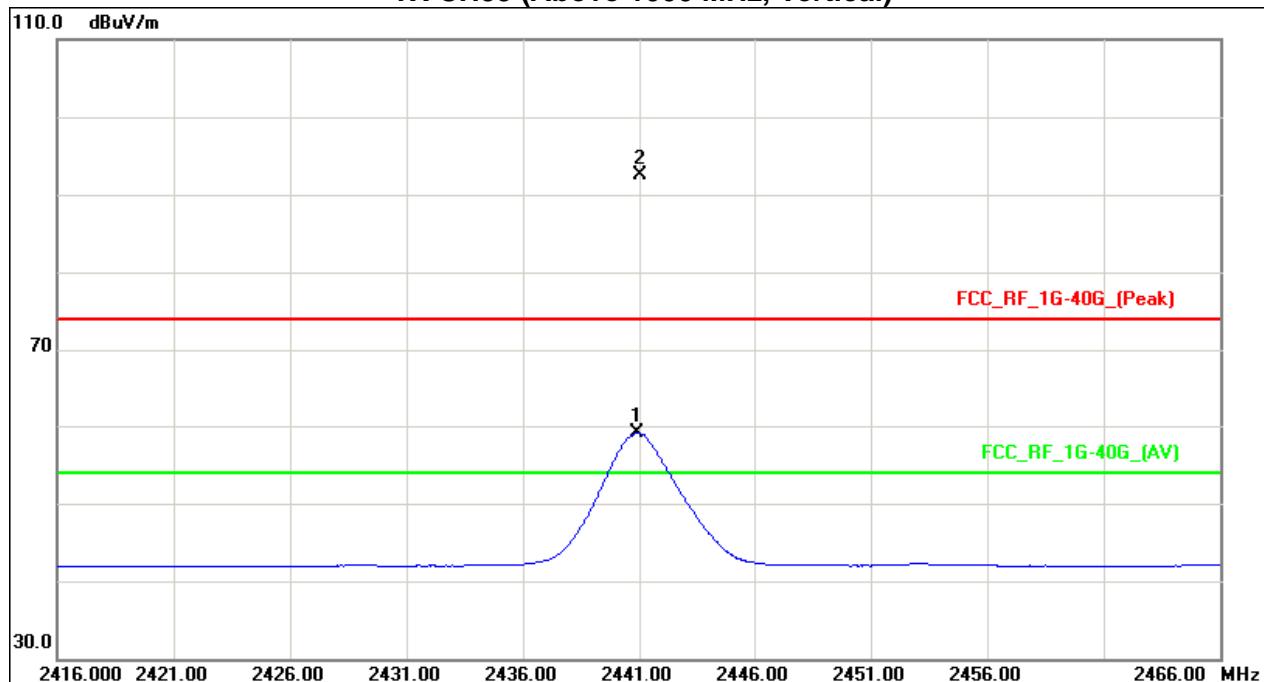
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.90	V	60.82	27.45	31.62	92.45	59.07			X/F
4882.01	V	45.98	35.27	6.17	52.15	41.44	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



**TX CH39 (Above 1000 MHz, Vertical)**





EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz -CH39-1Mbps		

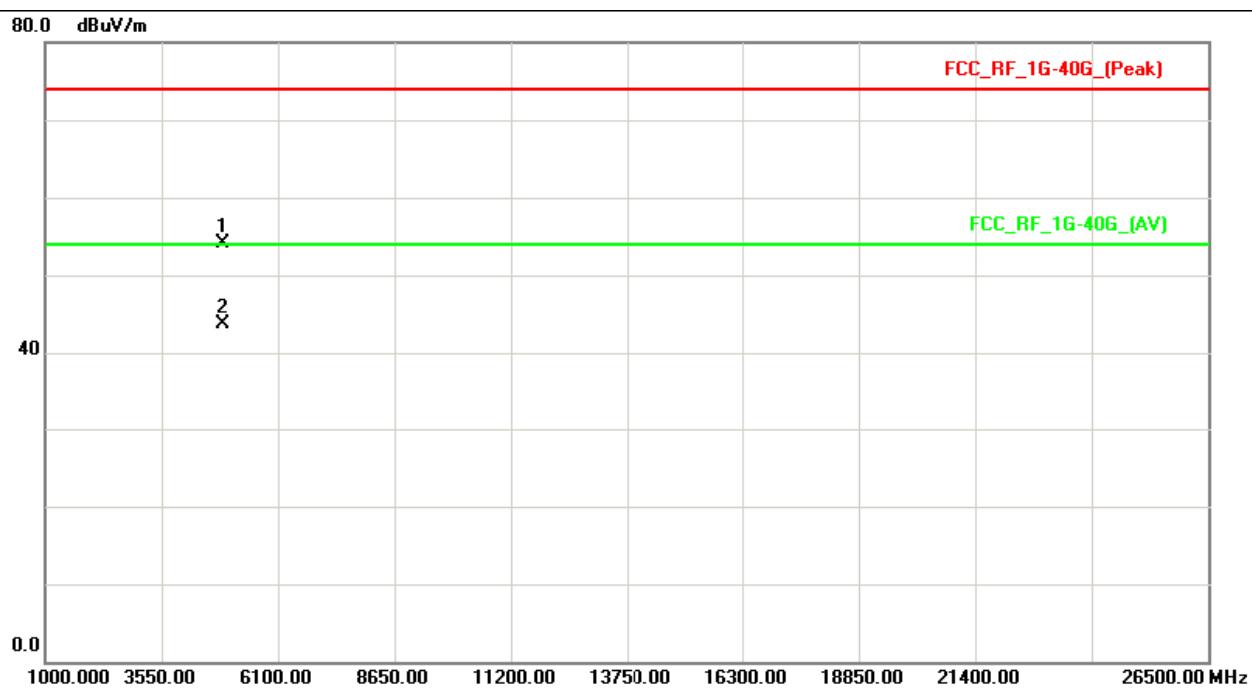
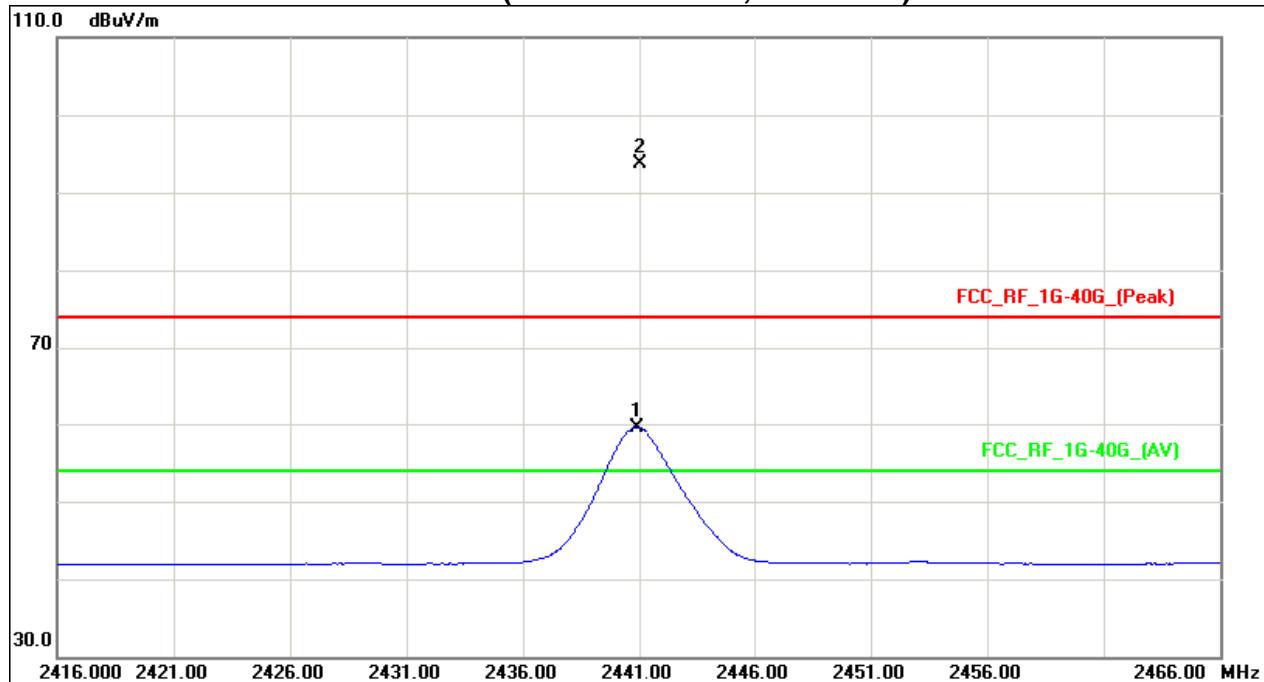
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2440.90	H	62.04	27.96	31.62	93.66	59.58			X/F
4882.25	H	47.89	37.62	6.17	54.06	43.79	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency . "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



**TX CH39 (Above 1000 MHz, Horizontal)**





EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz -CH78-1Mbps		

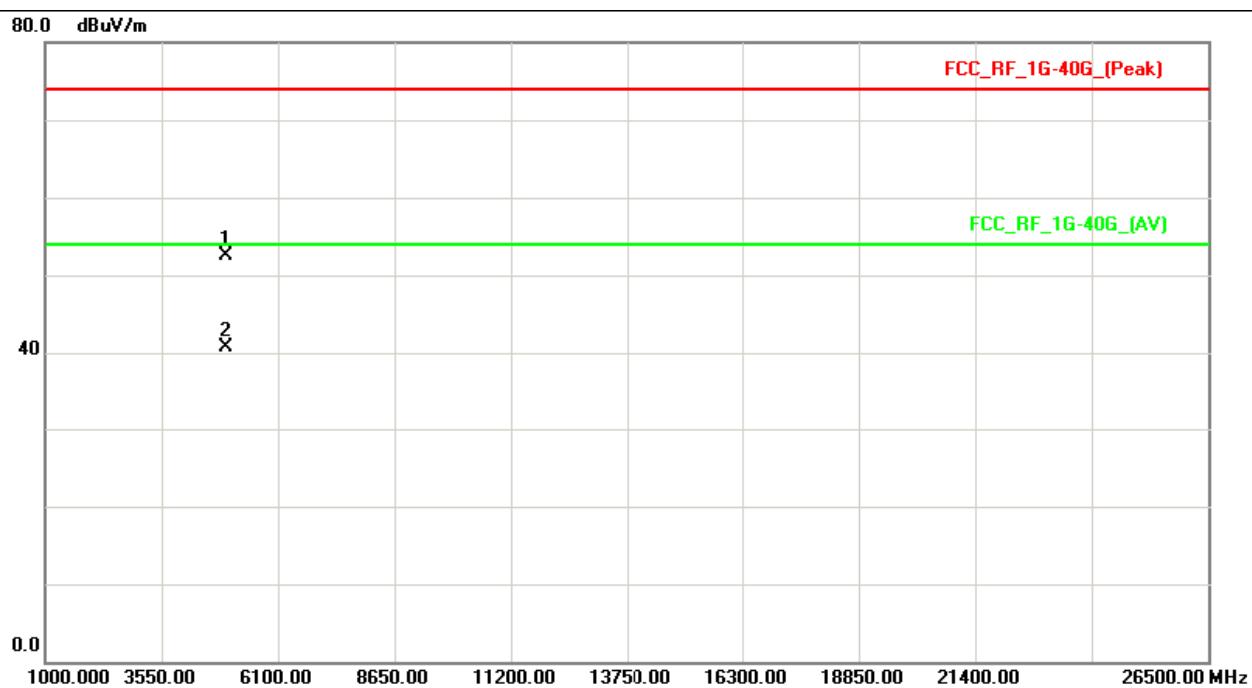
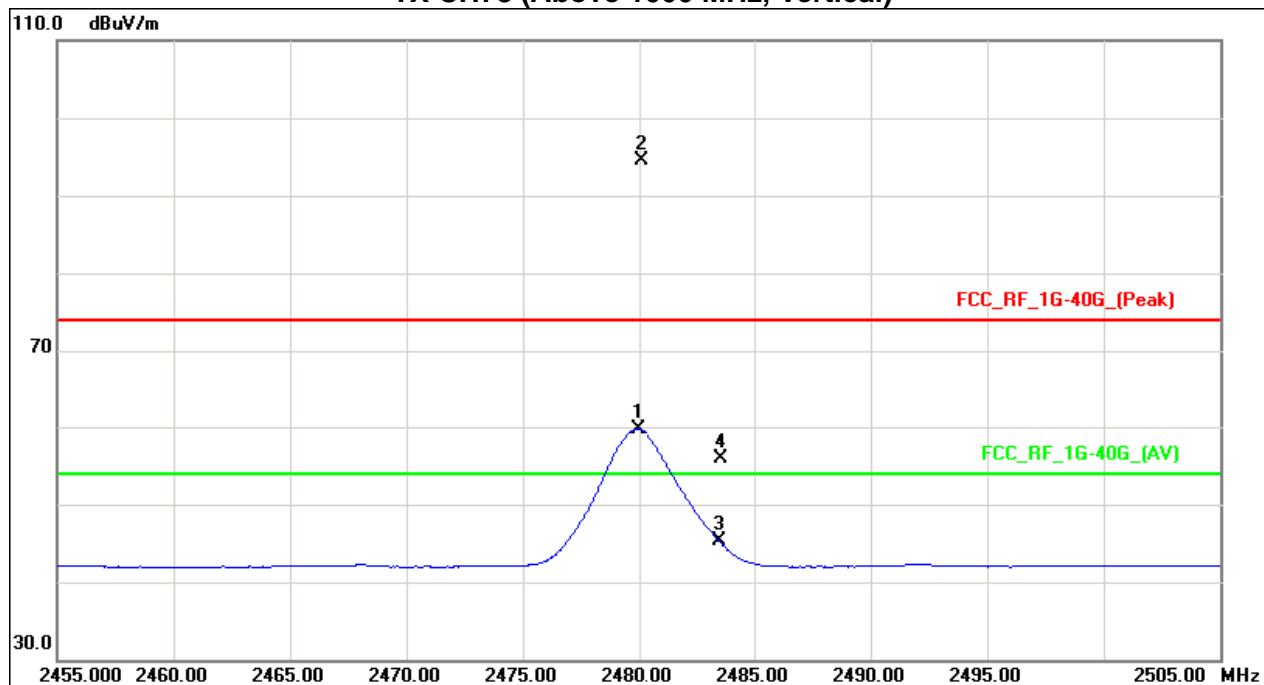
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.10	V	62.81	28.07	31.69	94.50	59.76			
<b>2483.50</b>	<b>V</b>	<b>24.15</b>	<b>13.52</b>	<b>34.70</b>	<b>58.85</b>	<b>45.22</b>	<b>74.00</b>	<b>54.00</b>	<b>X/F</b>
4960.35	V	46.02	34.41	6.40	52.42	40.80	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



**TX CH78 (Above 1000 MHz, Vertical)**





EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz -CH78-1Mbps		

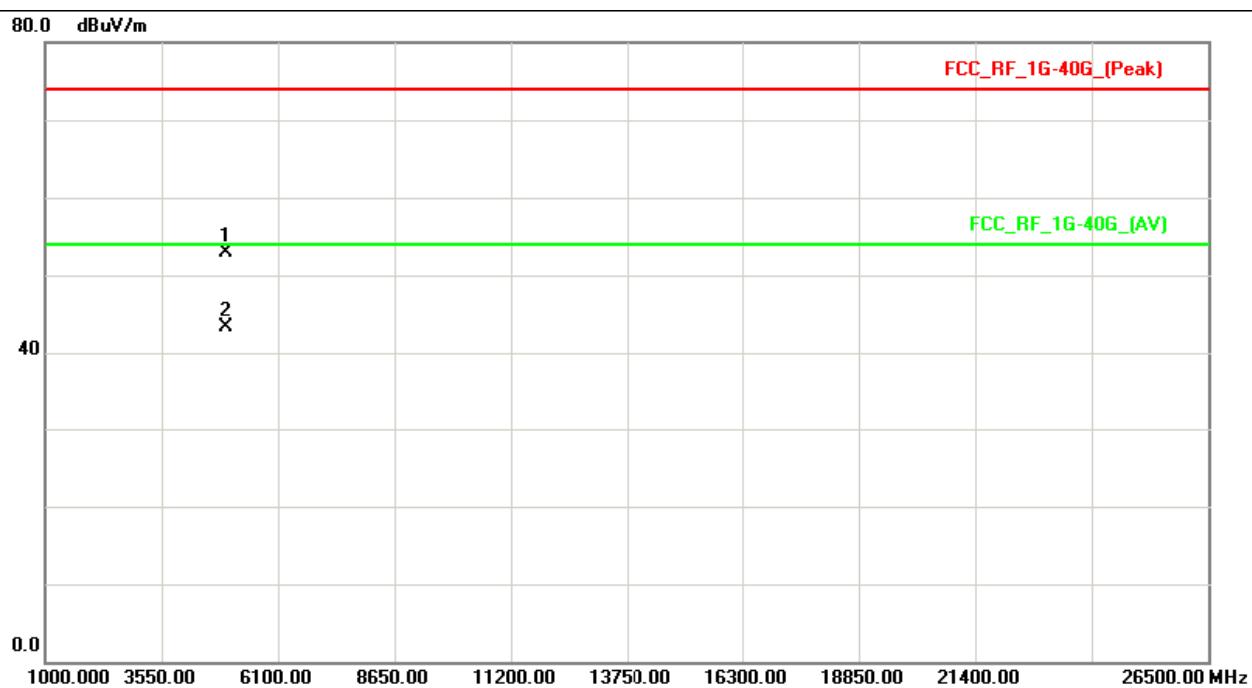
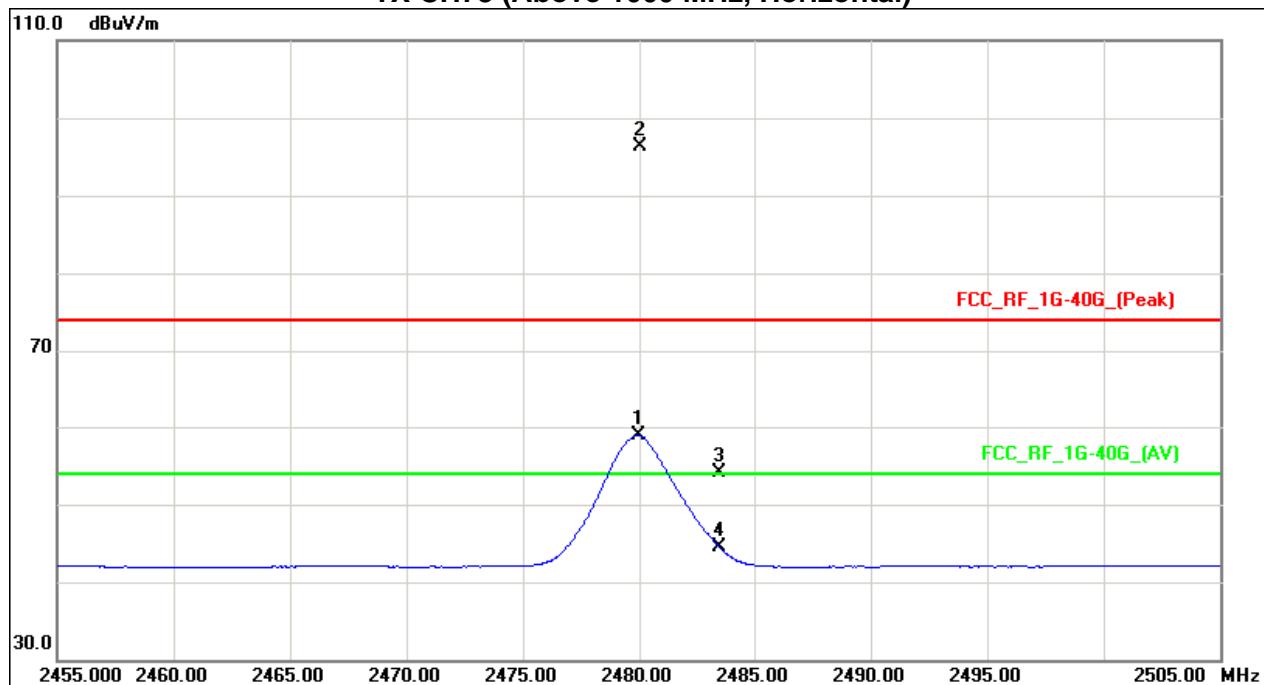
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2480.05	H	64.52	27.19	31.69	96.21	58.88			X/F
2483.50	H	22.41	12.81	31.70	54.11	44.51	74.00	54.00	X/E
4960.40	H	46.58	36.82	6.39	52.97	43.21	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency ; "H" denotes spurious frequency . "E" denotes band edge frequency . (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



**TX CH78 (Above 1000 MHz, Horizontal)**



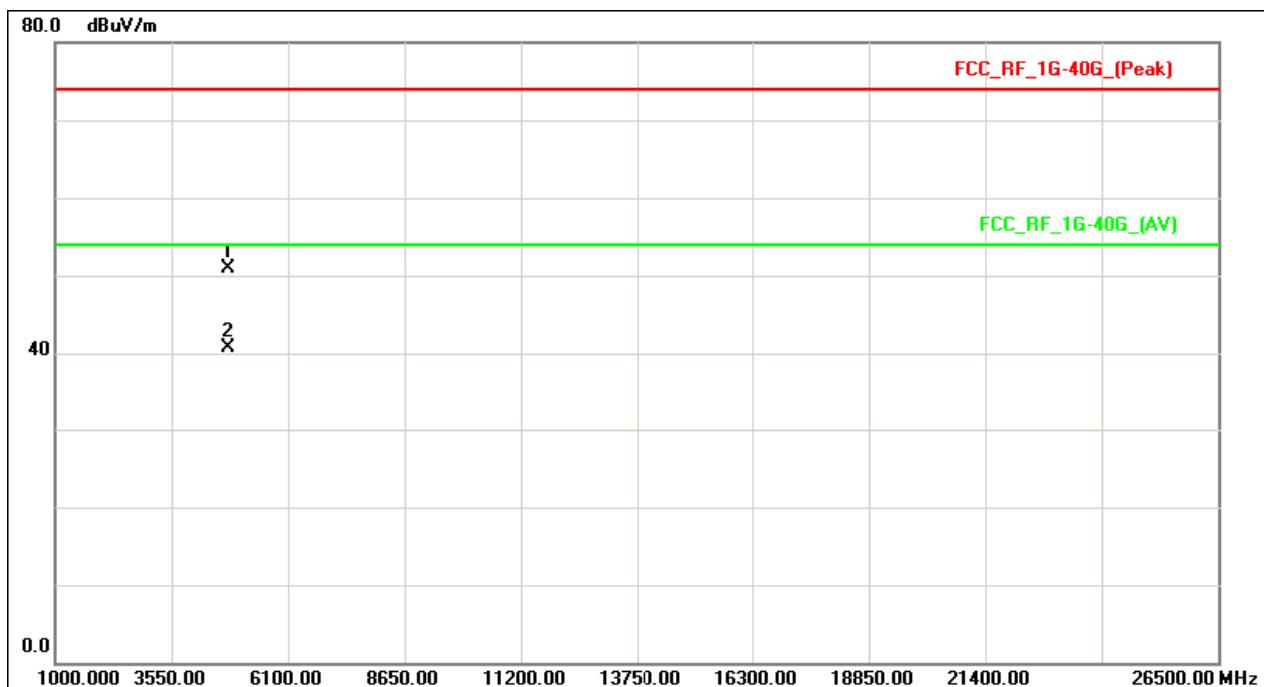
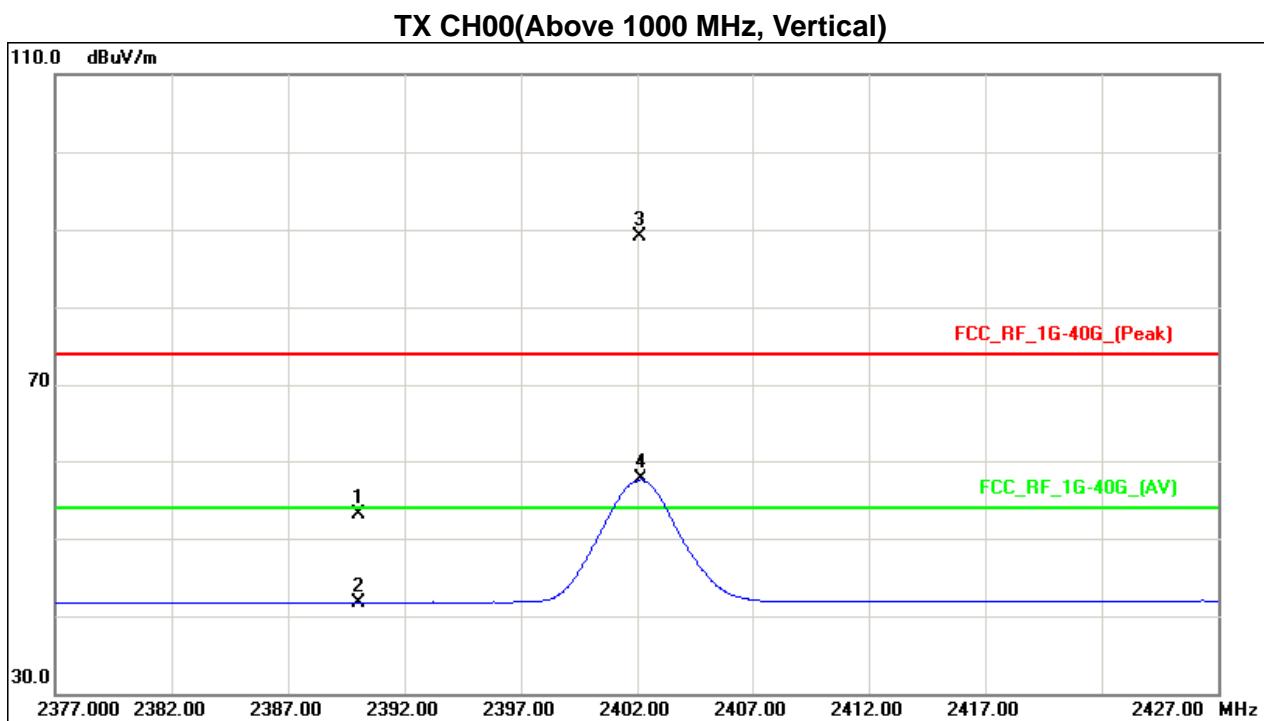


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz – CH 00-3Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	21.54	10.22	31.54	53.08	41.76	74.00	54.00	X/E
<b>2402.10</b>	<b>V</b>	<b>57.50</b>	<b>26.05</b>	<b>31.56</b>	<b>89.06</b>	<b>57.61</b>			<b>X/F</b>
4804.39	V	44.89	34.68	5.94	50.83	40.62	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna





EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz – CH 00-3Mbps		

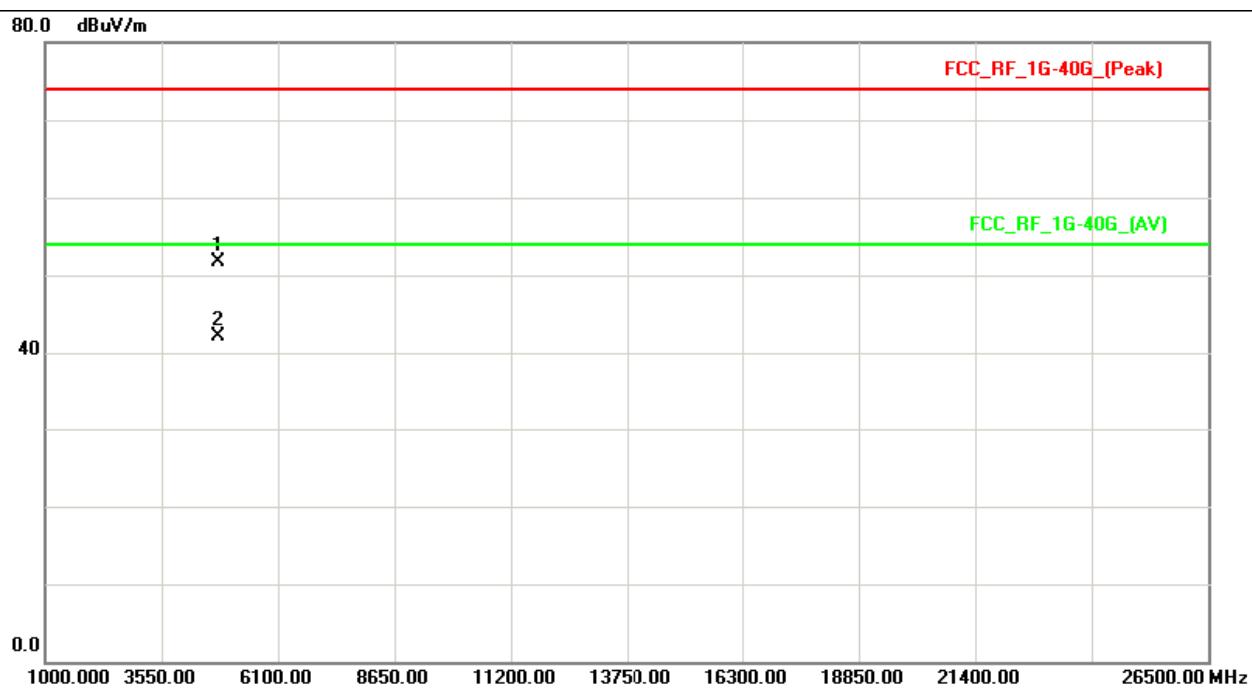
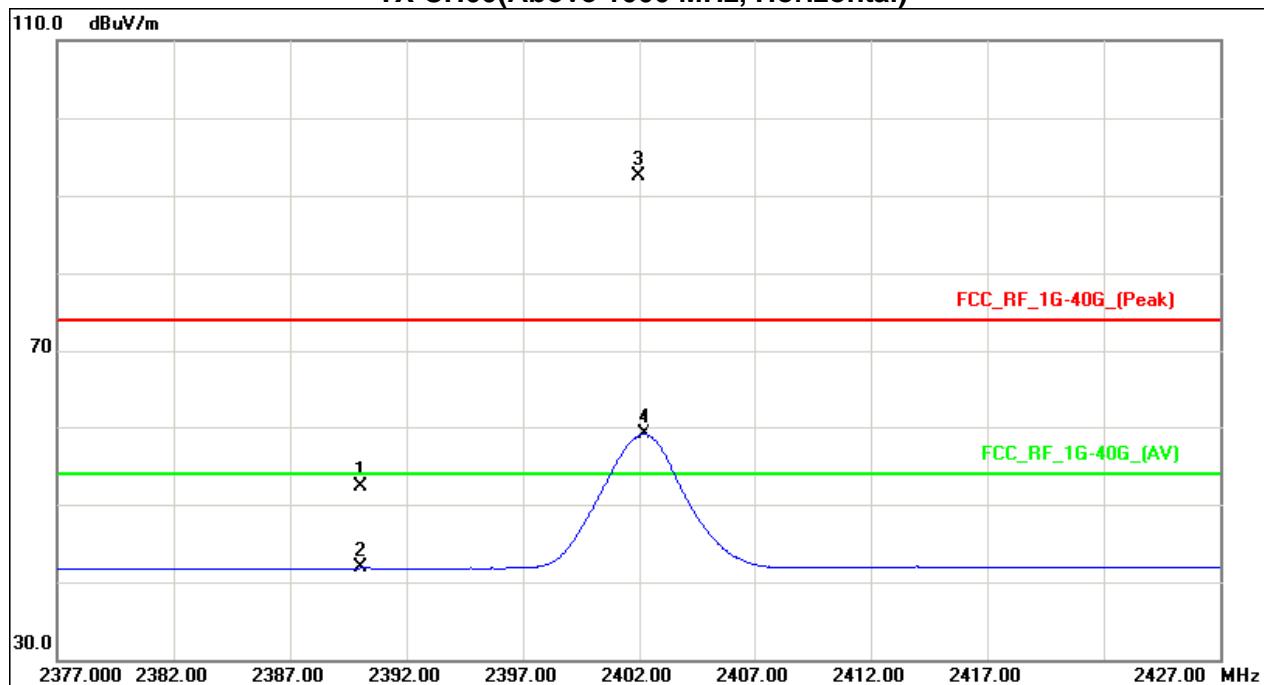
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	20.72	10.27	31.54	52.26	41.81	74.00	54.00	X/E
<b>2402.25</b>	<b>H</b>	<b>60.98</b>	<b>27.49</b>	<b>31.56</b>	<b>92.54</b>	<b>59.05</b>			<b>X/F</b>
4803.73	H	45.78	36.26	5.94	51.72	42.20	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



**TX CH00(Above 1000 MHz, Horizontal)**





EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System		Model Name :	iP76	
Temperature :	23 °C		Relative Humidity :	55 %	
Pressure :	1010 hPa		Test Voltage :	AC 120V/60Hz	
Test Mode :	TX 2441MHz -CH39-3Mbps				

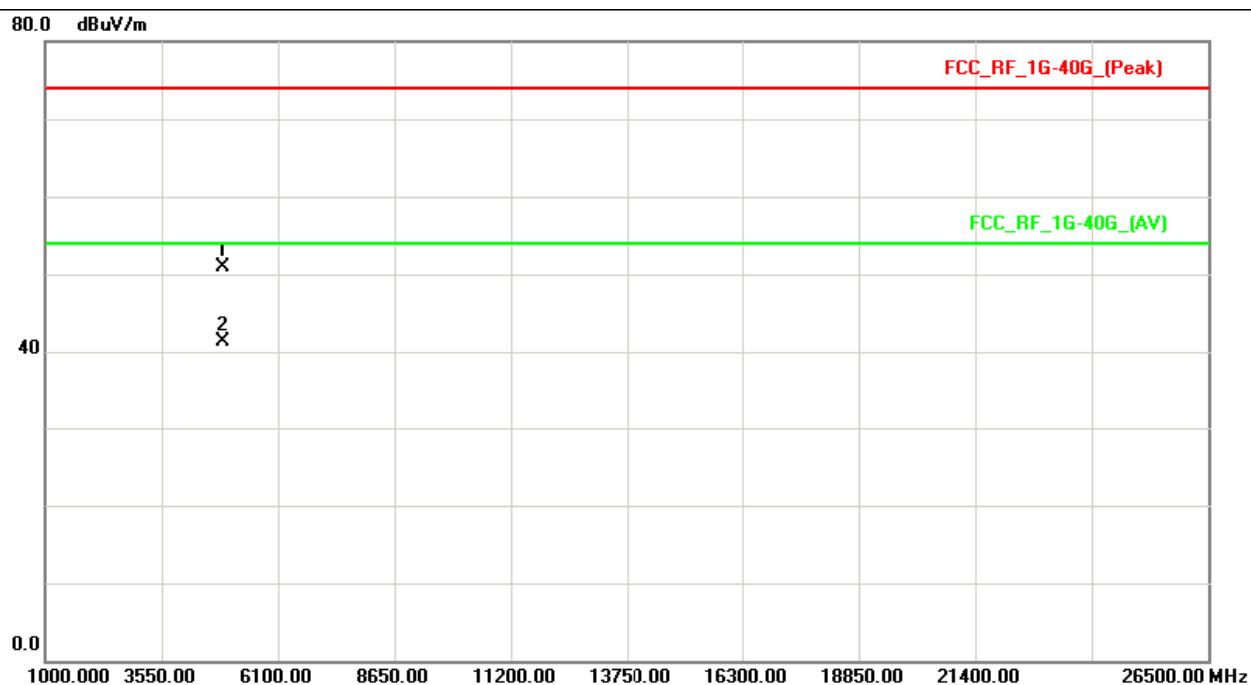
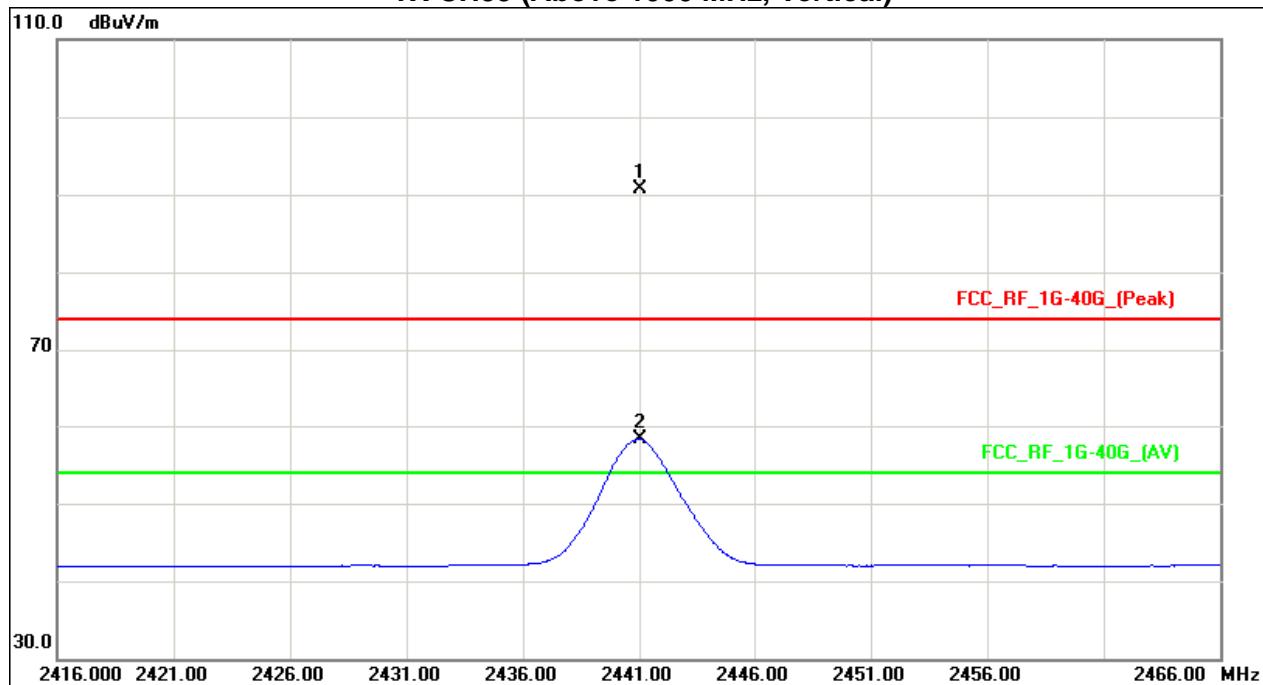
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2441.00	V	59.02	26.64	31.63	90.65	58.27			X/F
4882.21	V	44.71	35.06	6.17	50.88	41.23	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency . "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



**TX CH39 (Above 1000 MHz, Vertical)**





EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz -CH39-3Mbps		

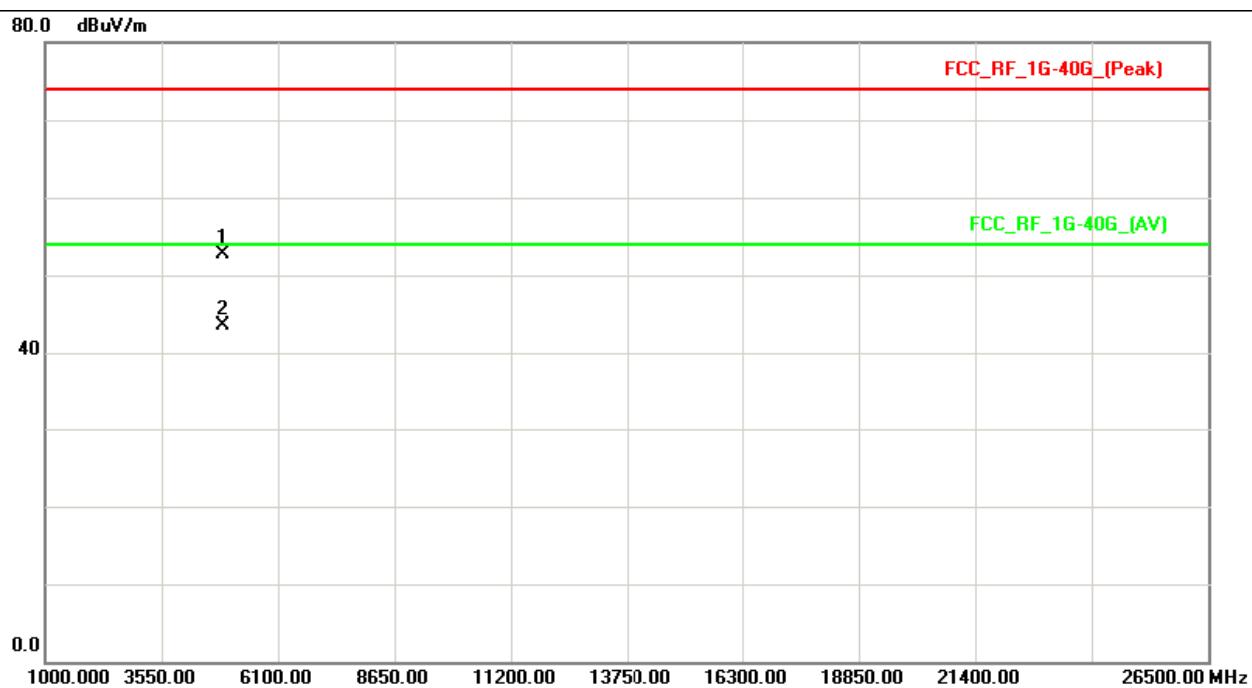
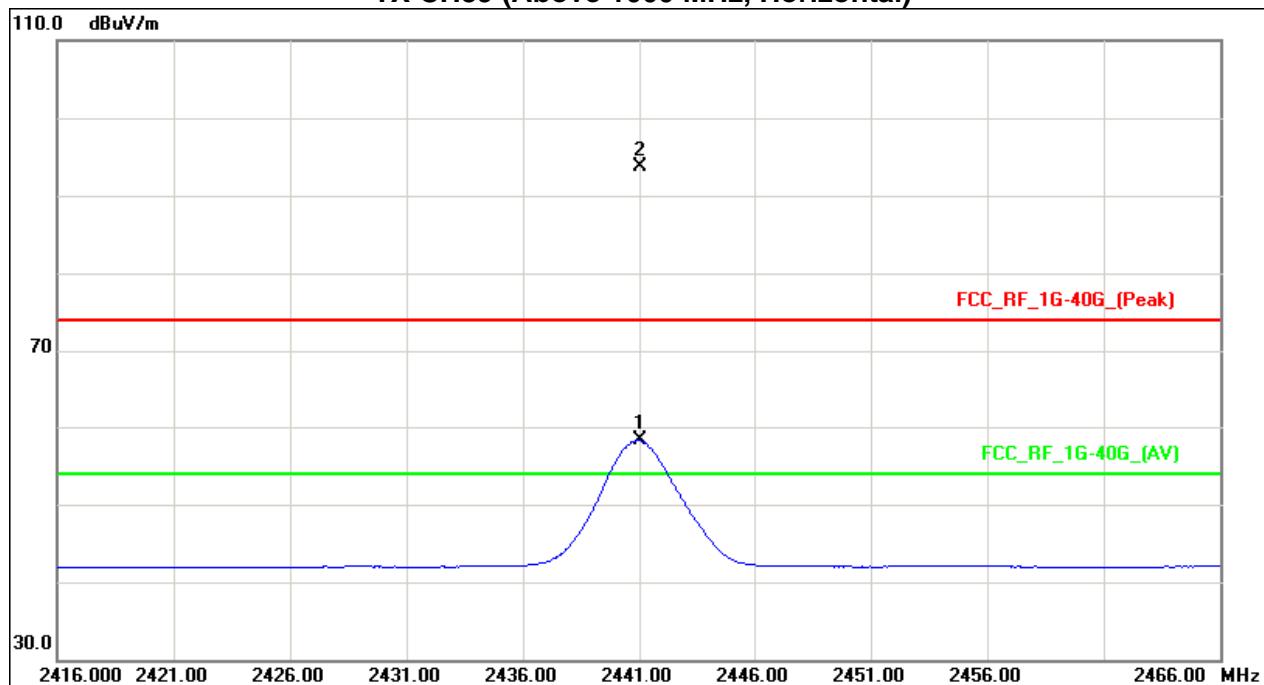
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.05	H	62.00	26.62	31.63	93.63	58.25			X/F
4882.02	H	46.52	37.41	6.17	52.69	43.58	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



**TX CH39 (Above 1000 MHz, Horizontal)**





EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz -CH78-3Mbps		

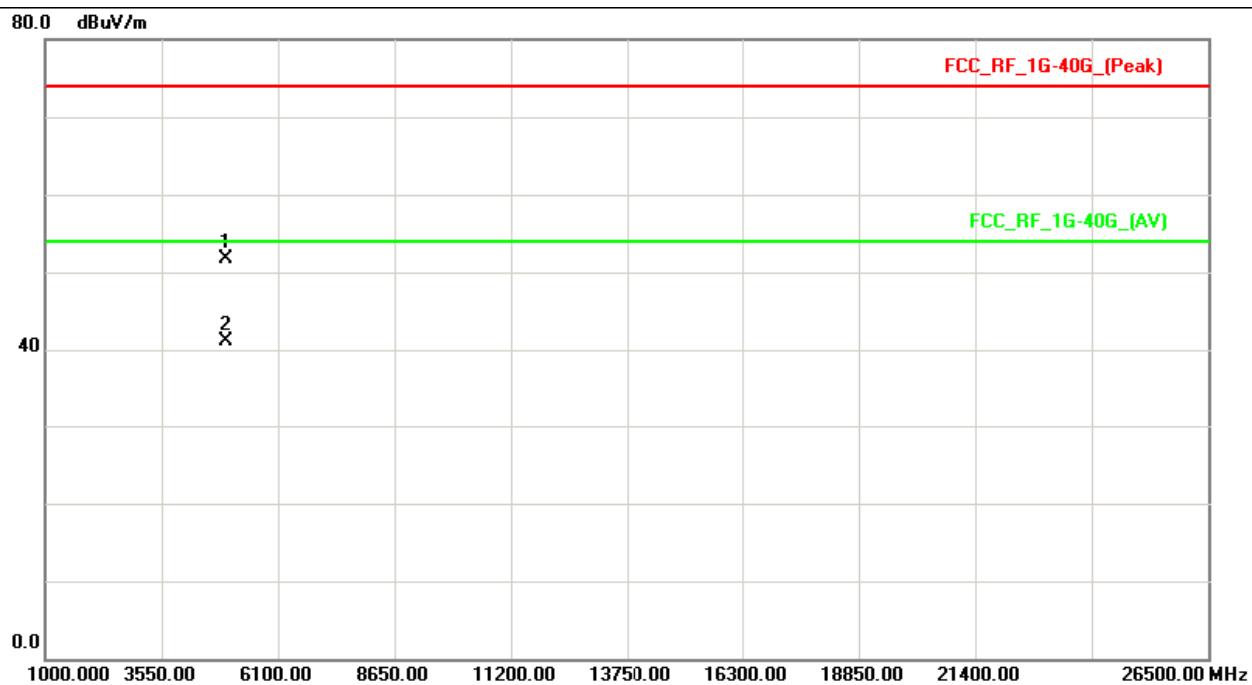
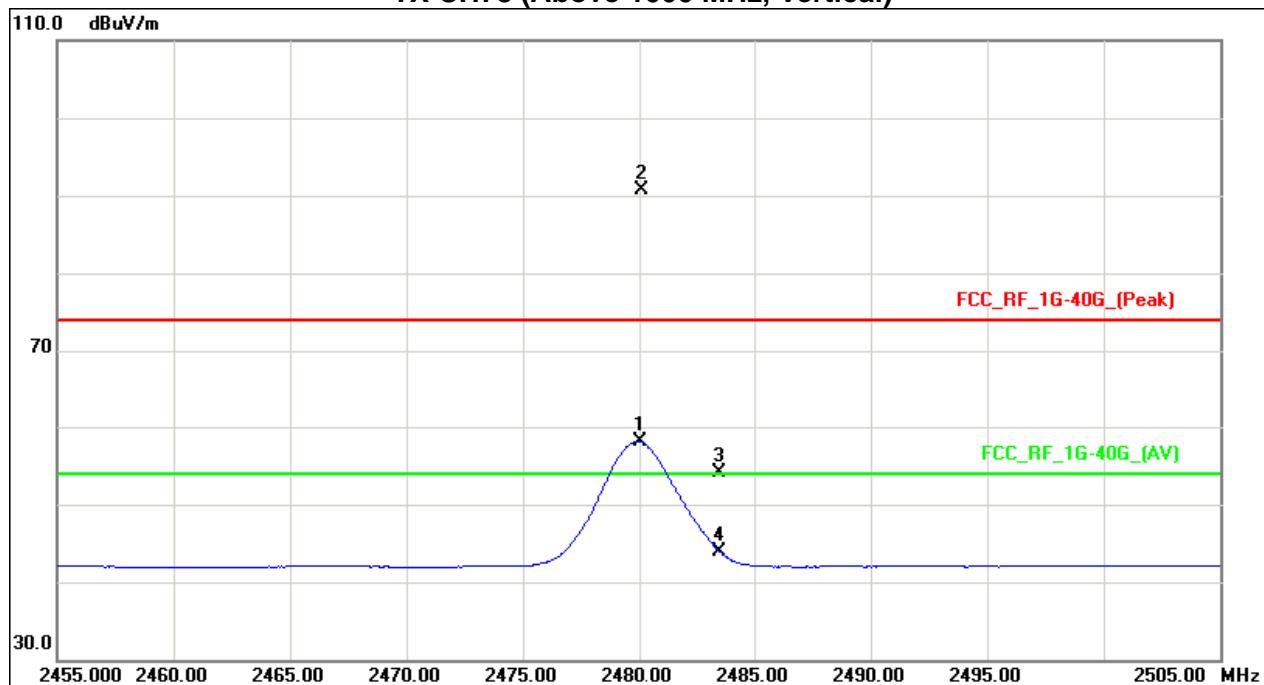
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.10	V	58.95	26.45	31.69	90.64	58.14			X/F
2483.50	V	22.38	12.25	31.70	54.08	43.95	74.00	54.00	X/E
4960.37	V	45.25	34.68	6.40	51.65	41.08	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



**TX CH78 (Above 1000 MHz, Vertical)**





EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz -CH78-3Mbps		

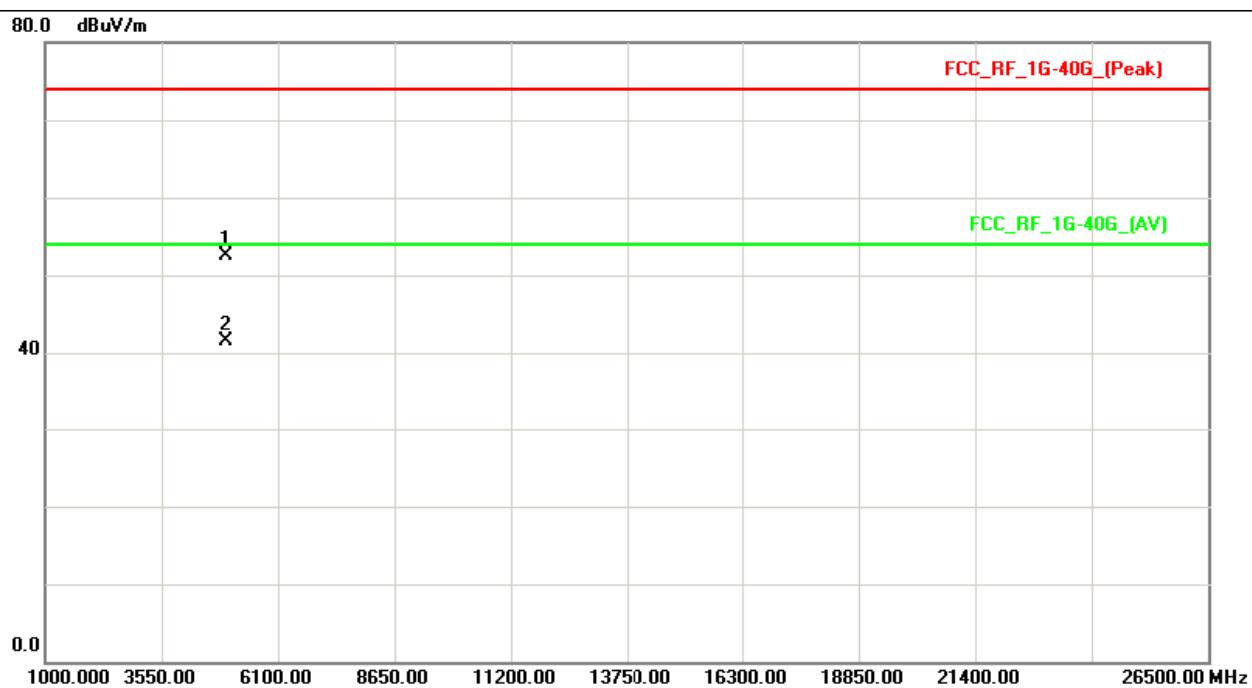
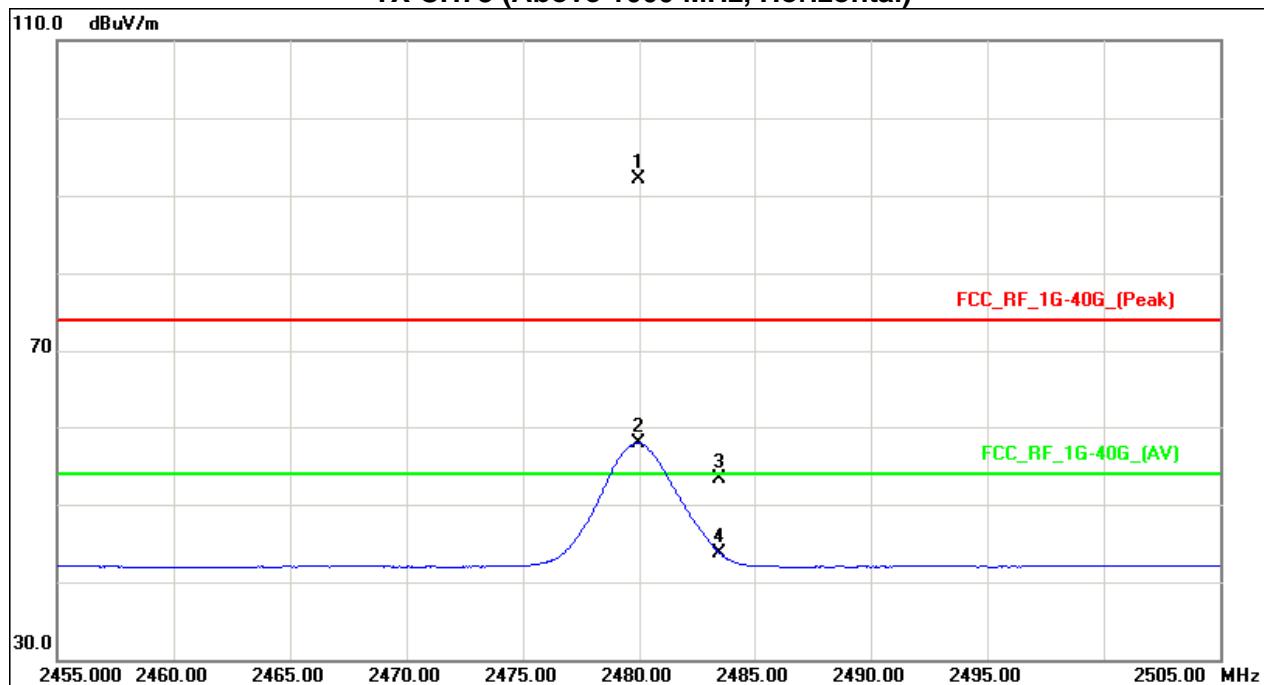
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2479.95	H	60.32	26.19	31.69	92.01	57.88			X/F
2483.50	H	21.69	12.09	31.70	53.39	43.79	74.00	54.00	X/E
4960.77	H	46.14	35.08	6.39	52.53	41.47	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



**TX CH78 (Above 1000 MHz, Horizontal)**



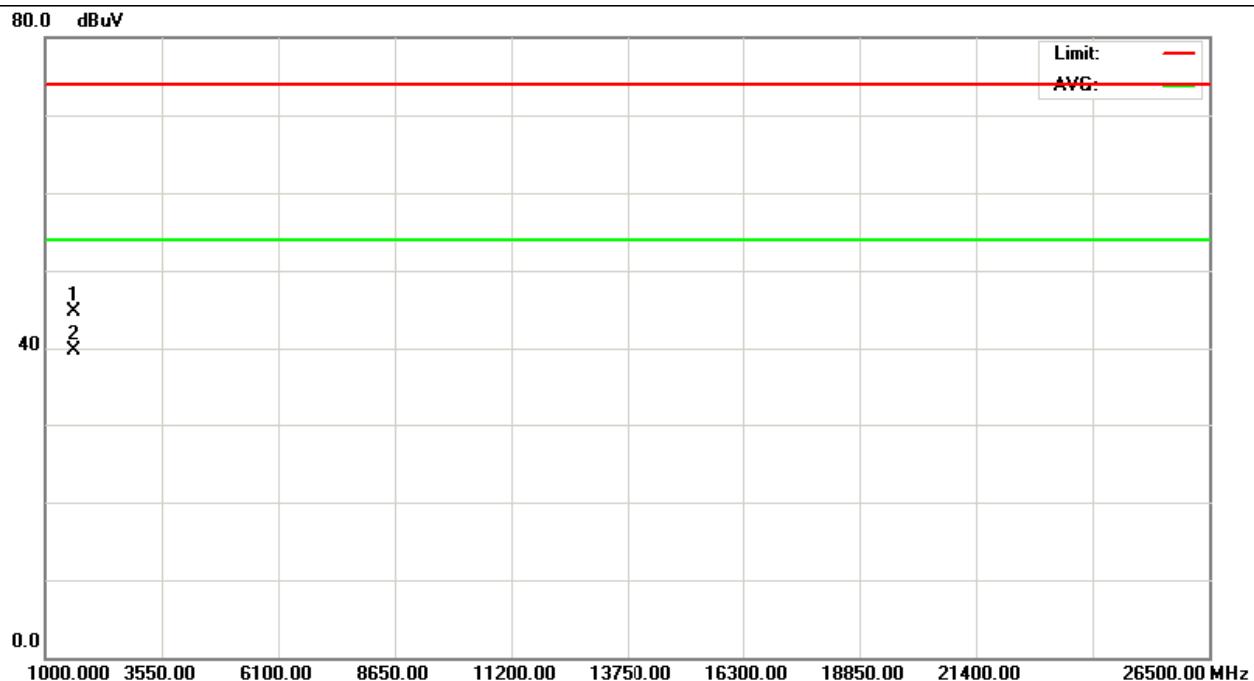


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	RX Mode 2402MHz - 1Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
1602.33	V	50.09	44.92	-5.30	44.79	39.62	74.00	54.00	X/H

## Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



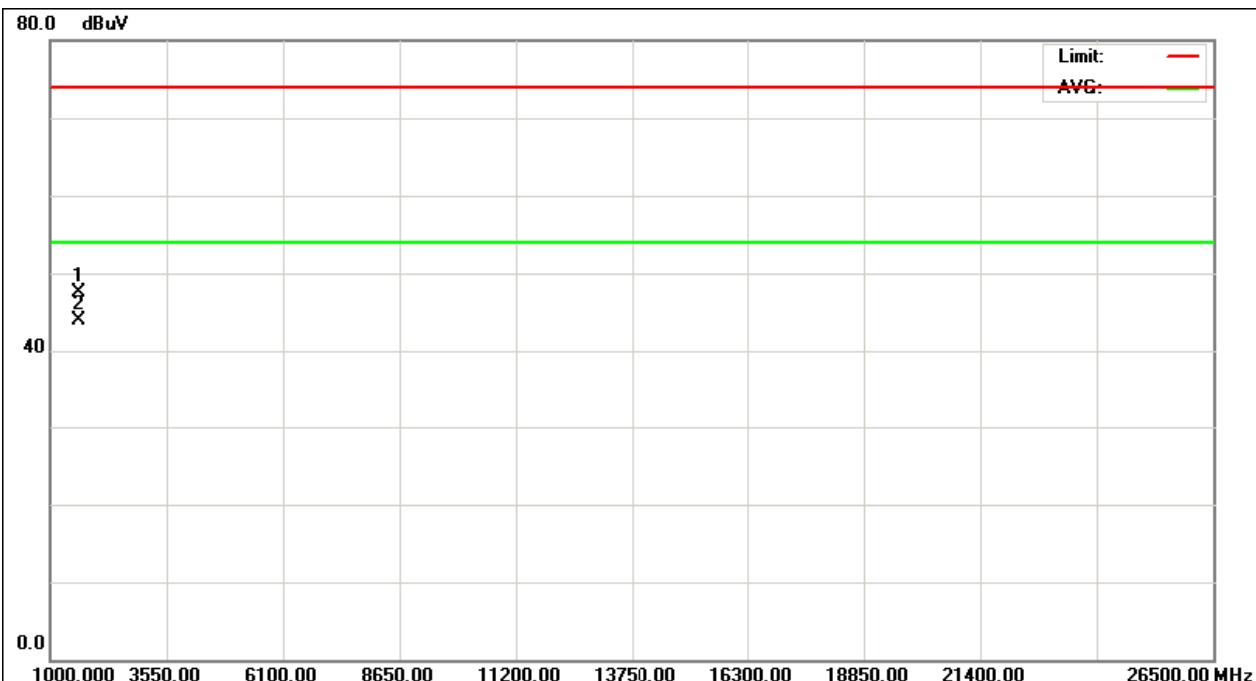


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	RX Mode 2402MHz - 1Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
1602.35	H	52.89	49.13	-5.30	47.59	43.83	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



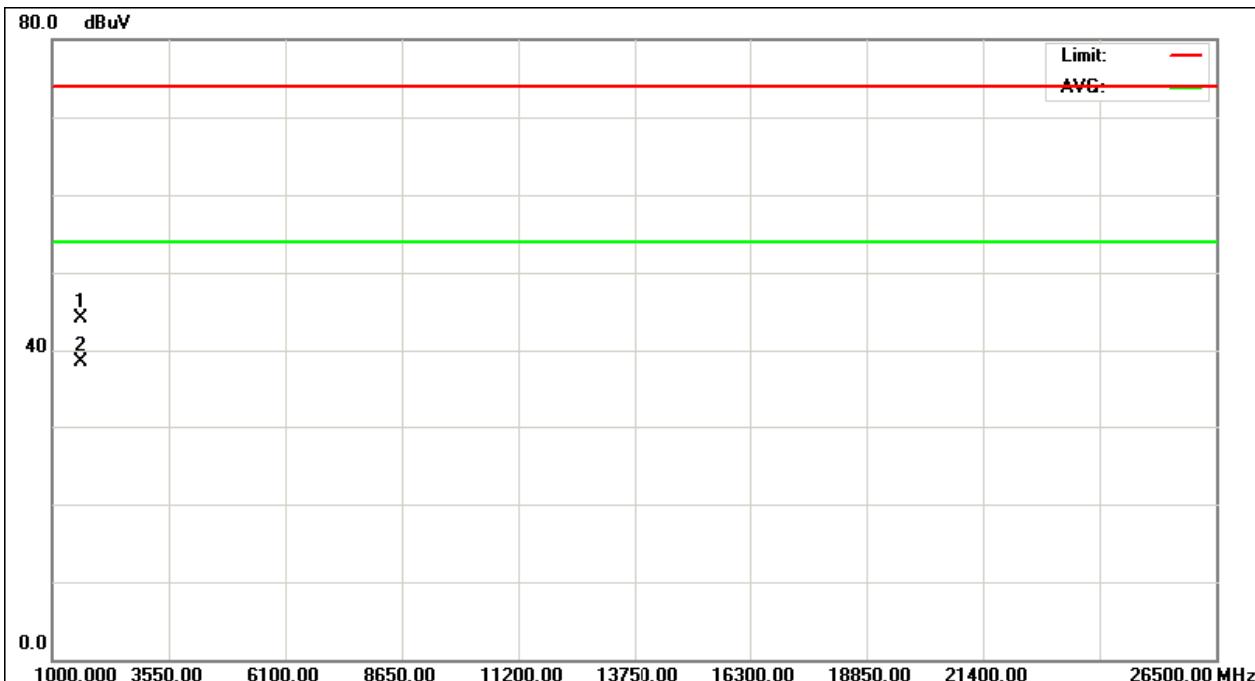


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	RX Mode 2441MHz - 1Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
1627.86	V	49.02	43.56	-5.01	44.01	38.55	74.00	54.00	X/H

**Remark :**

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



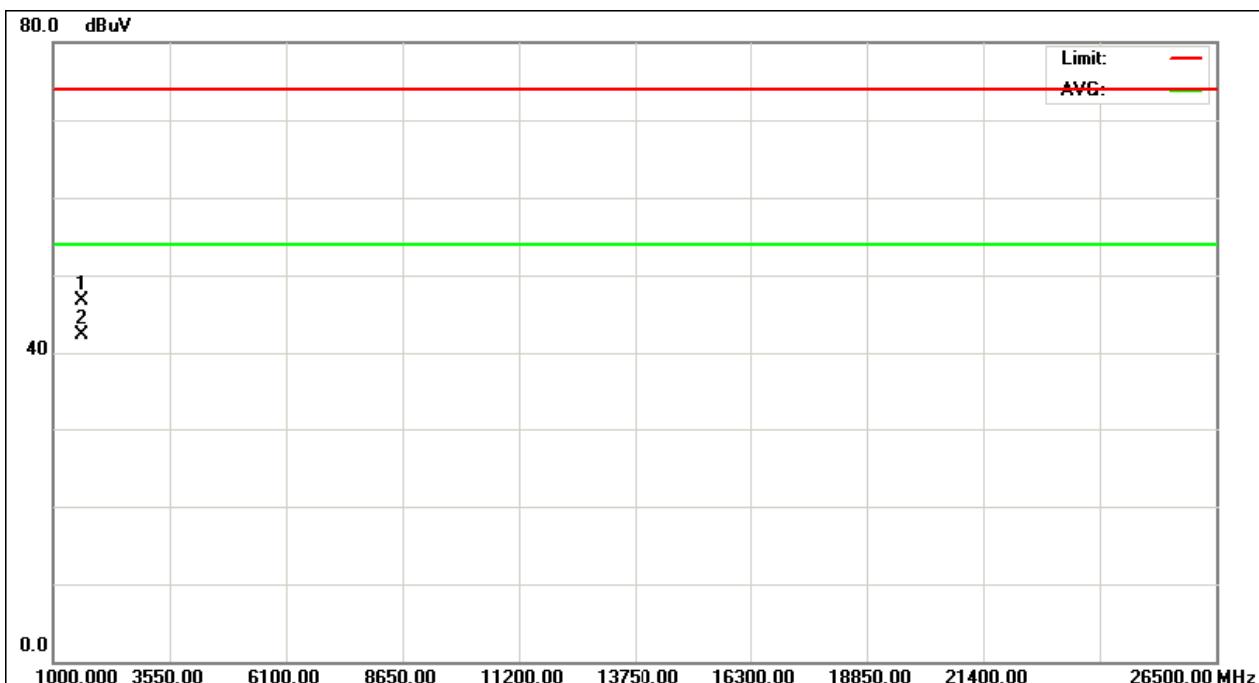


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	RX Mode 2441MHz - 1Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
1628.02	H	51.78	47.24	-5.01	46.77	42.23	74.00	54.00	X/H

## Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



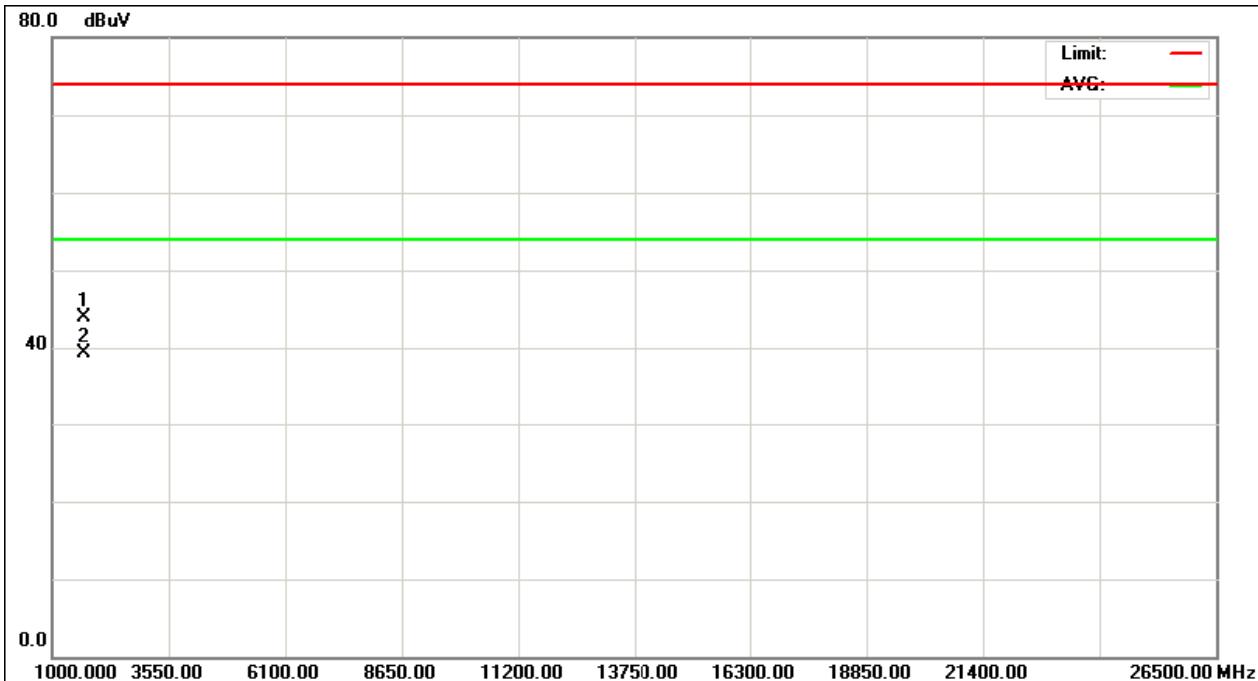


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	RX Mode 2480MHz - 1Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
1653.41	V	48.59	43.98	-4.73	43.86	39.25	74.00	54.00	X/H

**Remark :**

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



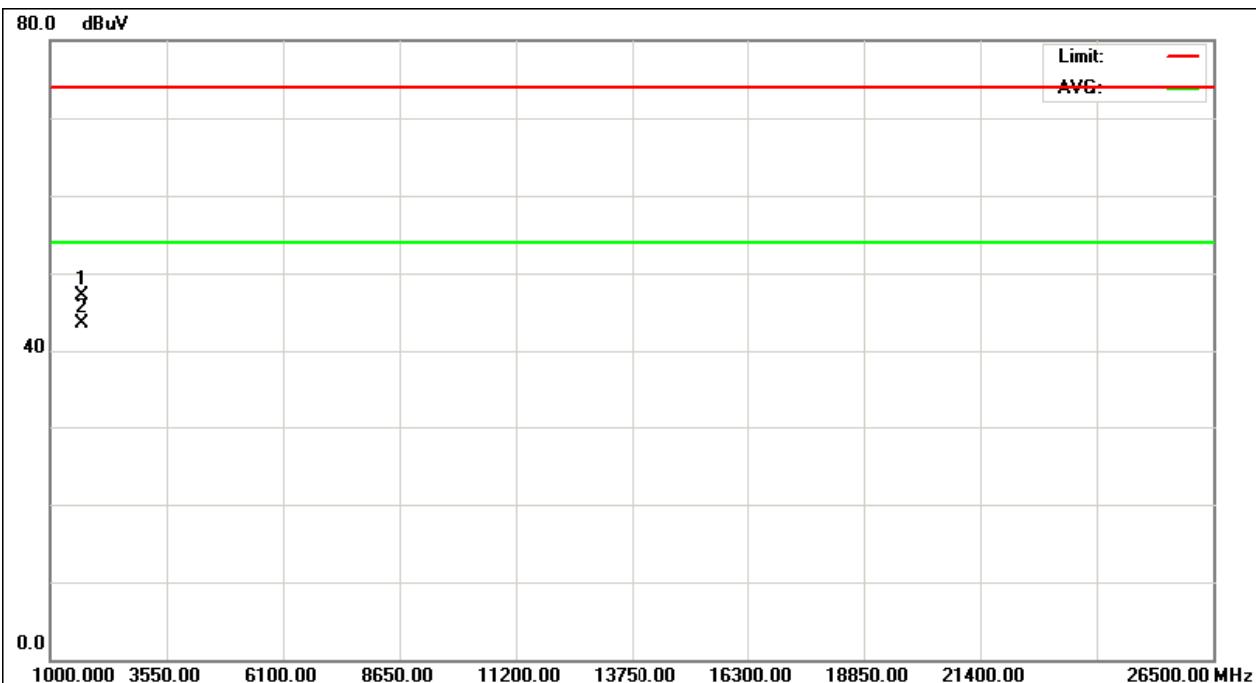


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	RX Mode 2480MHz - 1Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
1653.14	H	51.79	48.21	-4.73	47.06	43.48	74.00	54.00	X/H

## Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



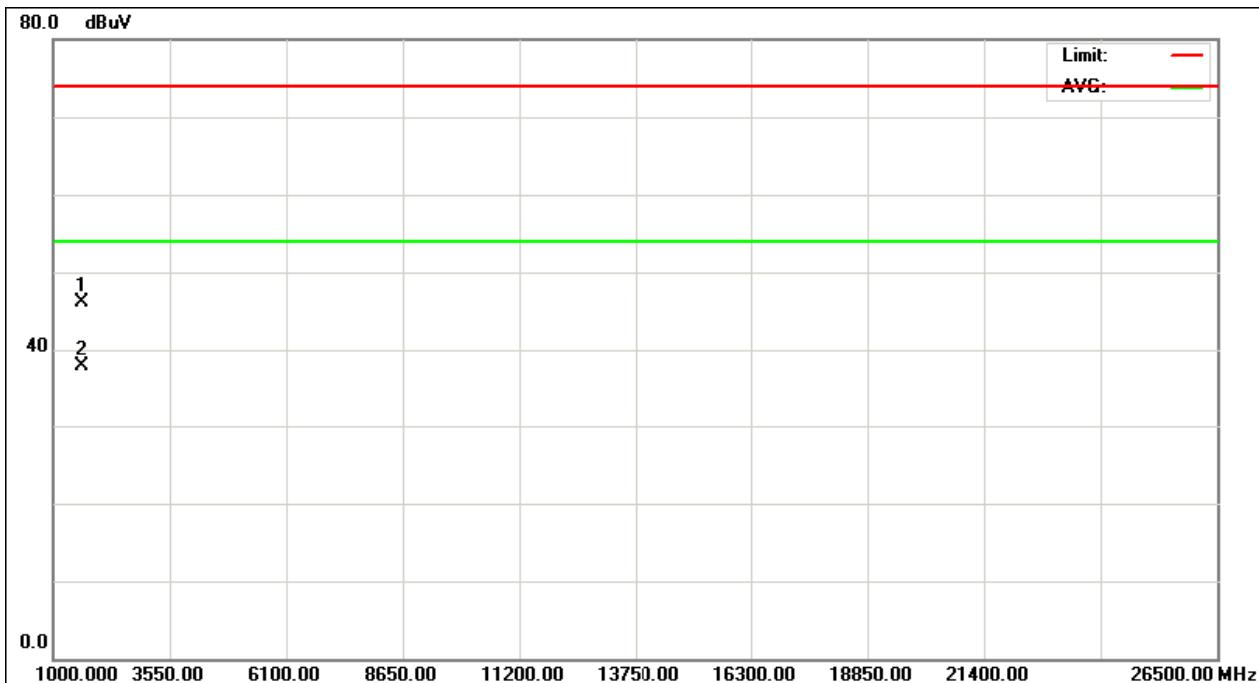


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	RX Mode 2402MHz - 3Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
1602.40	V	51.47	43.28	-5.30	46.17	37.98	74.00	54.00	X/H

**Remark :**

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



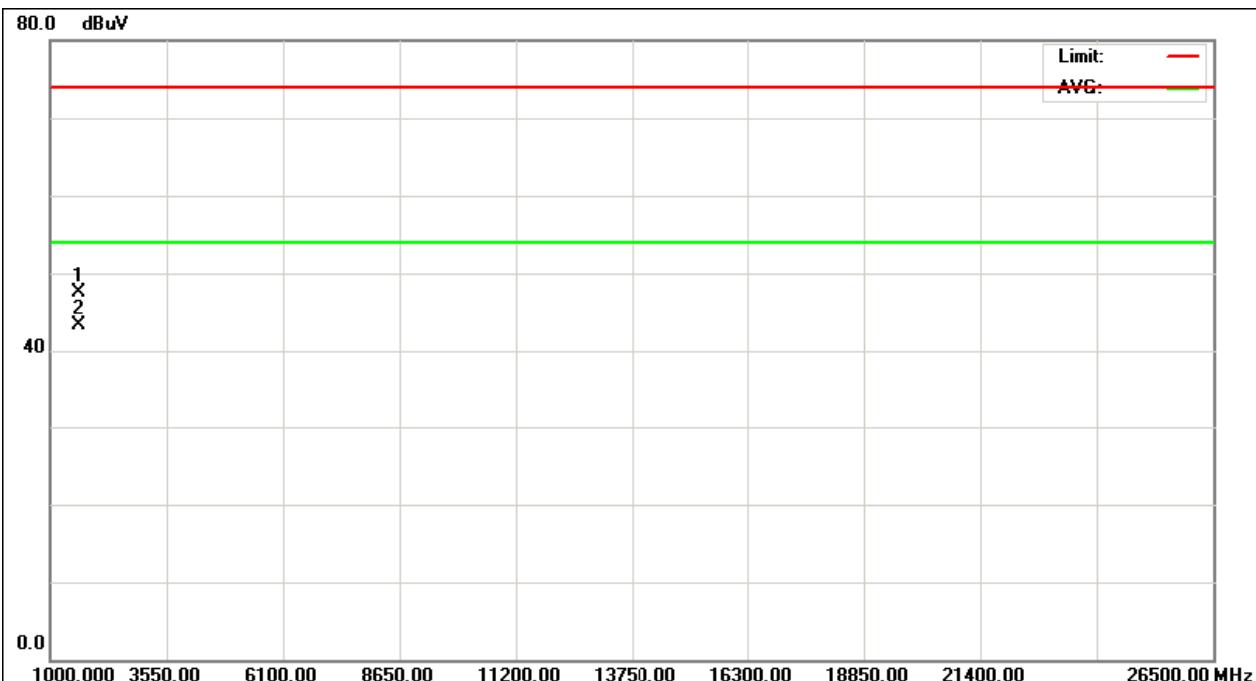


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	RX Mode 2402MHz - 3Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
1601.89	H	52.73	48.55	-5.30	47.43	43.25	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



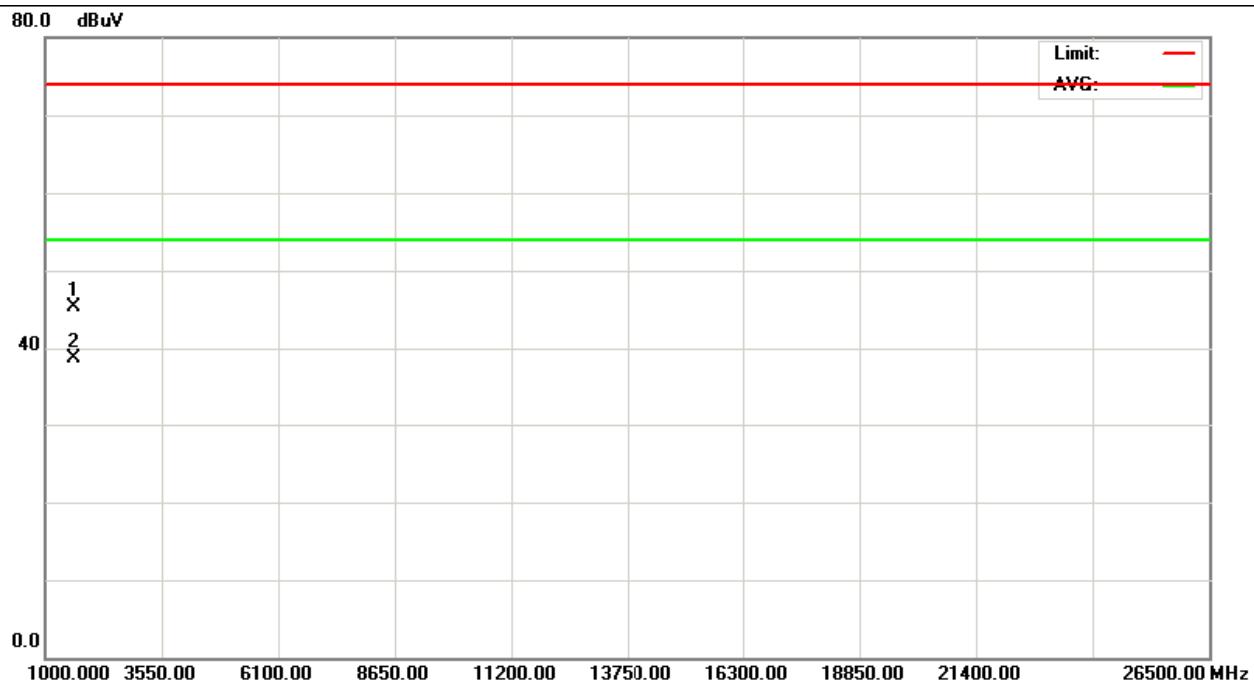


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	RX Mode 2441MHz - 3Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
1627.75	V	50.28	43.66	-5.01	45.27	38.65	74.00	54.00	X/H

## Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



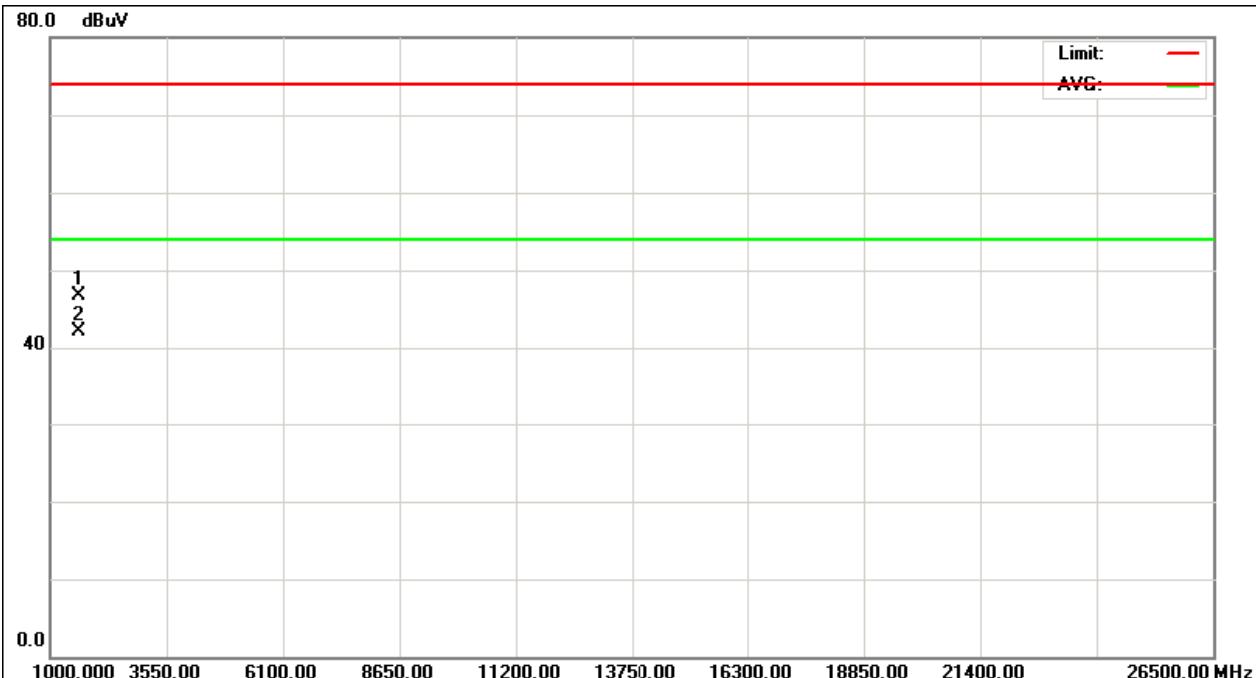


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	RX Mode 2441MHz - 3Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
1627.46	H	51.72	47.02	-5.01	46.71	42.01	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



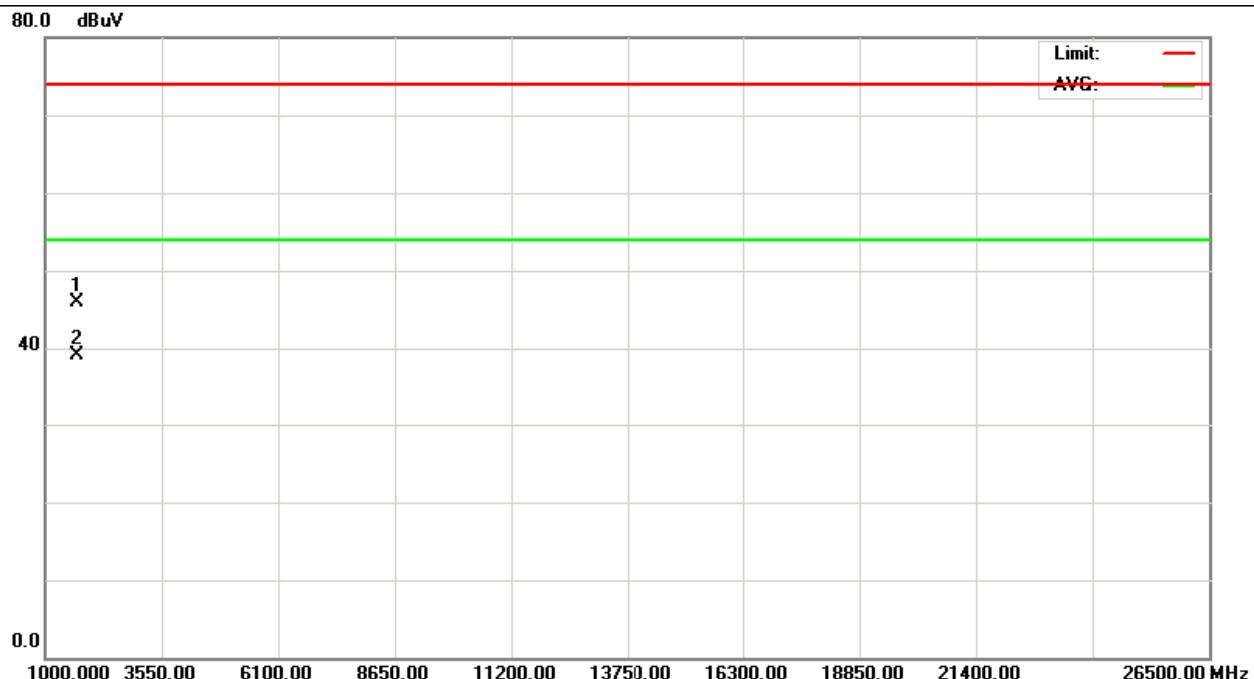


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	RX Mode 2480MHz - 3Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
1654.35	V	50.72	43.87	-4.72	46.00	39.15	74.00	54.00	X/H

## Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



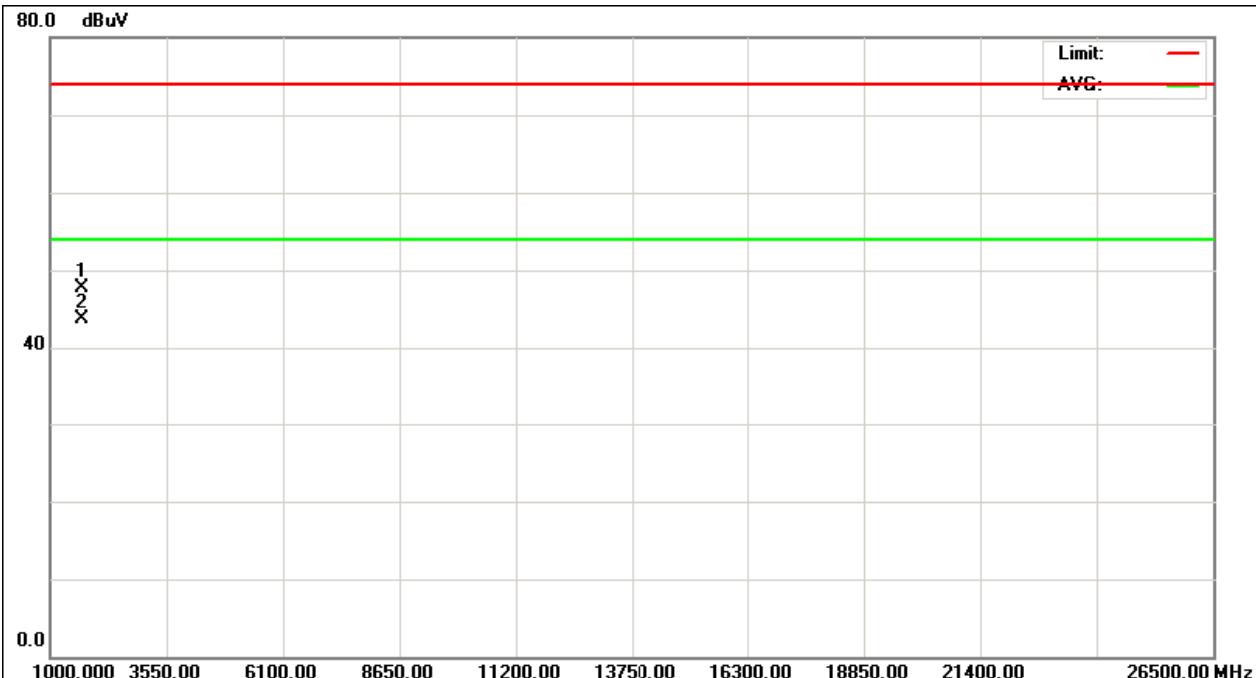


EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	RX Mode 2480MHz - 3Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
1654.65	H	52.46	48.39	-4.72	47.74	43.67	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand





## 5. NUMBER OF HOPPING CHANNEL

### 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	2400-2483.5	PASS

#### 5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: " N/A " denotes No Model Name , Serial No. or No Calibration specified.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

#### 5.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

#### 5.1.3 DEVIATION FROM STANDARD

No deviation.

#### 5.1.4 TEST SETUP



#### 5.1.5 EUT OPERATION CONDITIONS

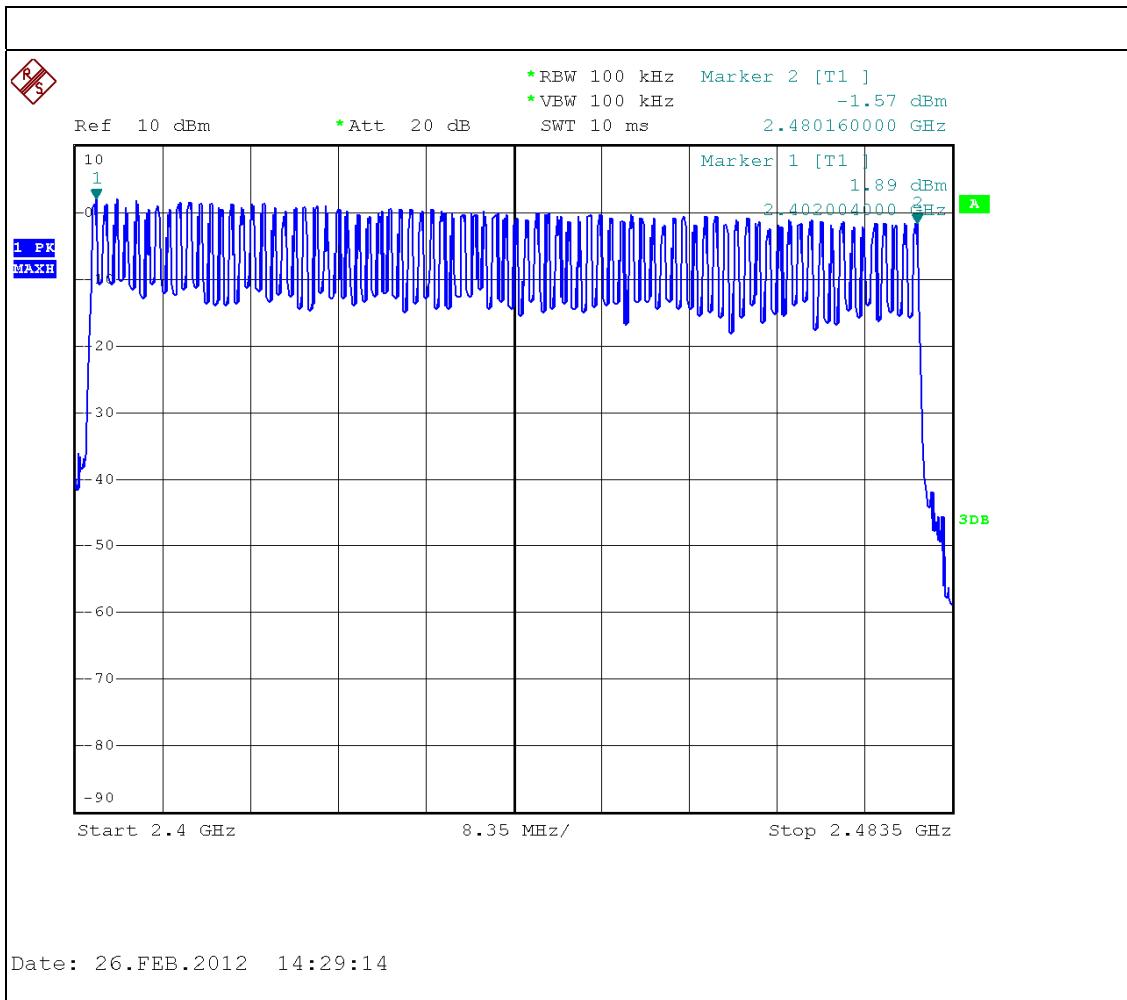
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



### 5.1.6 TEST RESULTS

EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Hopping Mode -1Mbps		

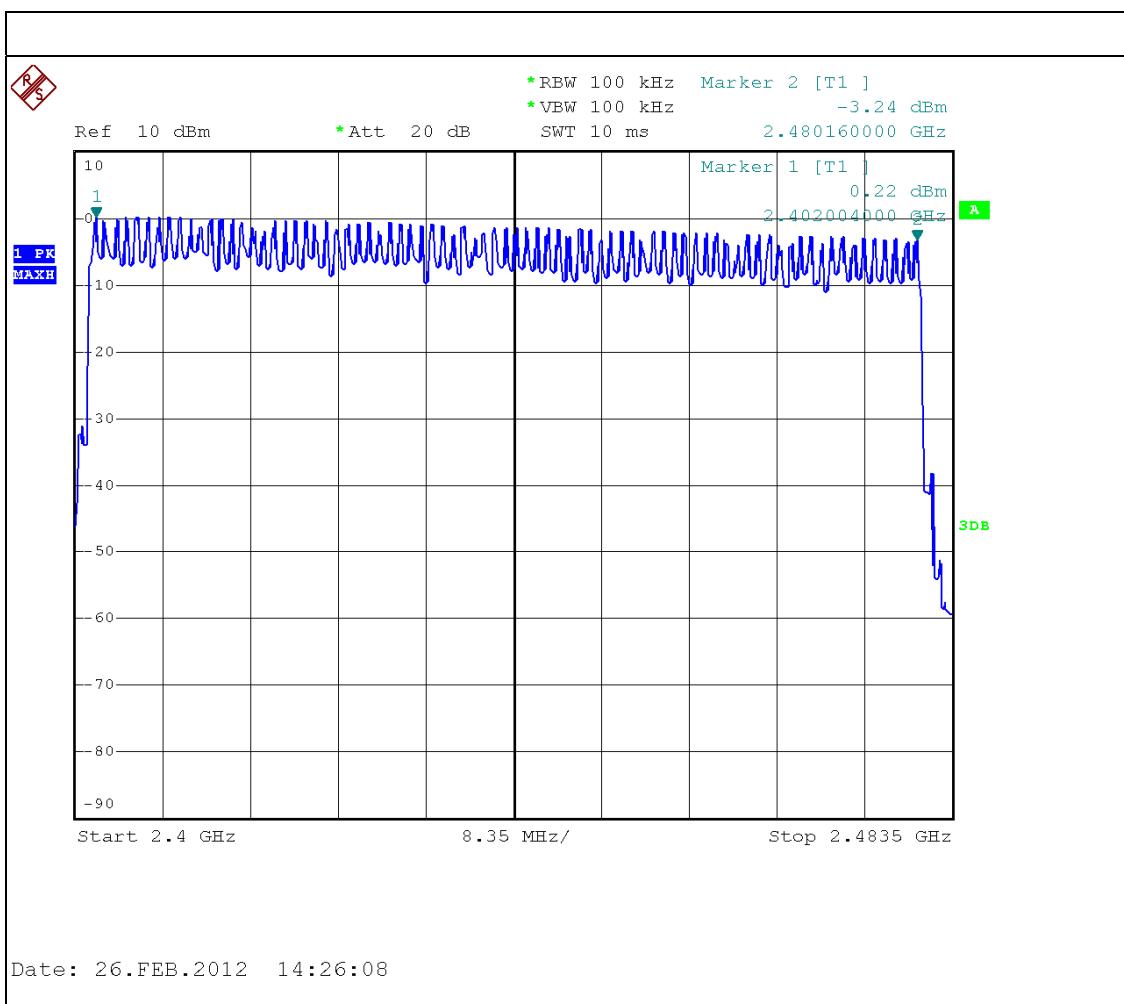
Number of Hopping Channel	79
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EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Hopping Mode -3Mbps		

Number of Hopping Channel	79
---------------------------	----





## 6. AVERAGE TIME OF OCCUPANCY

### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

#### 6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

#### 6.1.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum  $1600 / 79 / 6 = 3.37$  hops per second in each channel (5 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times  $3.37 \times 31.6 = 106.6$  within 31.6 seconds.
- j. DH3 Packet permit maximum  $1600 / 79 / 4 = 5.06$  hops per second in each channel (3 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times  $5.06 \times 31.6 = 160$  within 31.6 seconds.
- k. DH1 Packet permit maximum  $1600 / 79 / 2 = 10.12$  hops per second in each channel (1 time slot TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times  $10.12 \times 31.6 = 320$  within 31.6 seconds.

#### 6.1.3 DEVIATION FROM STANDARD

No deviation.



#### **6.1.4 TEST SETUP**



#### **6.1.5 EUT OPERATION CONDITIONS**

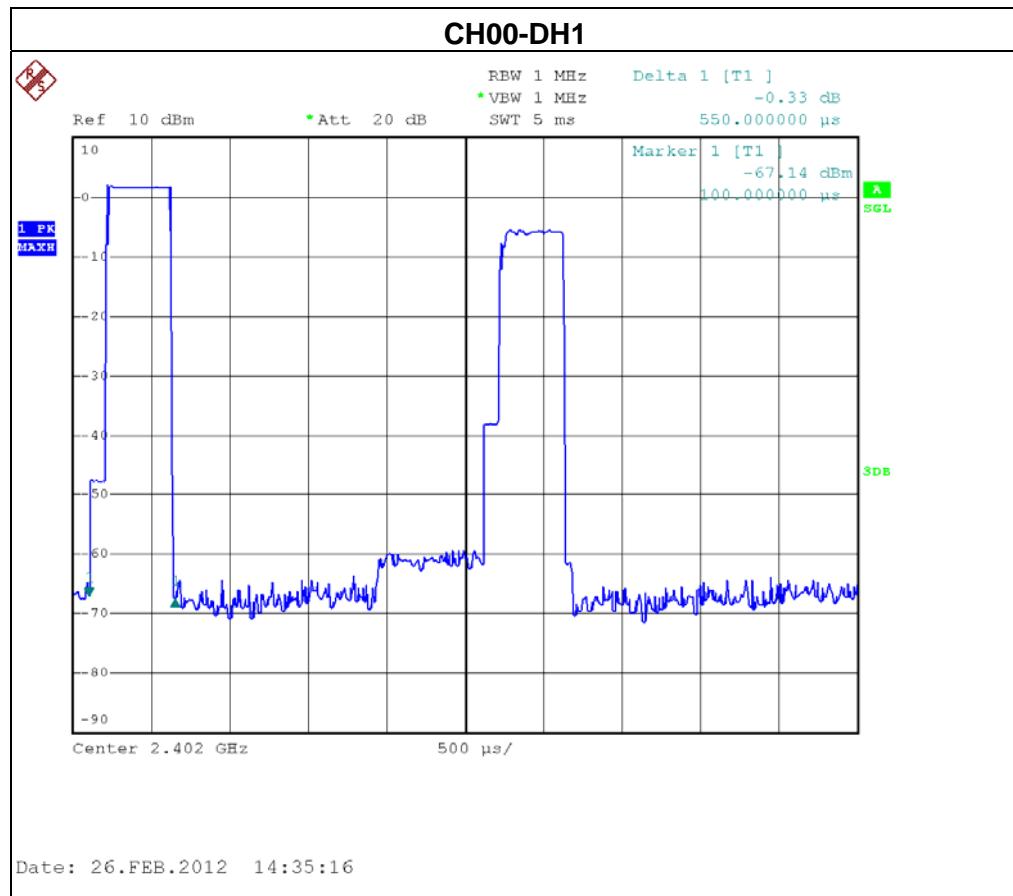
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

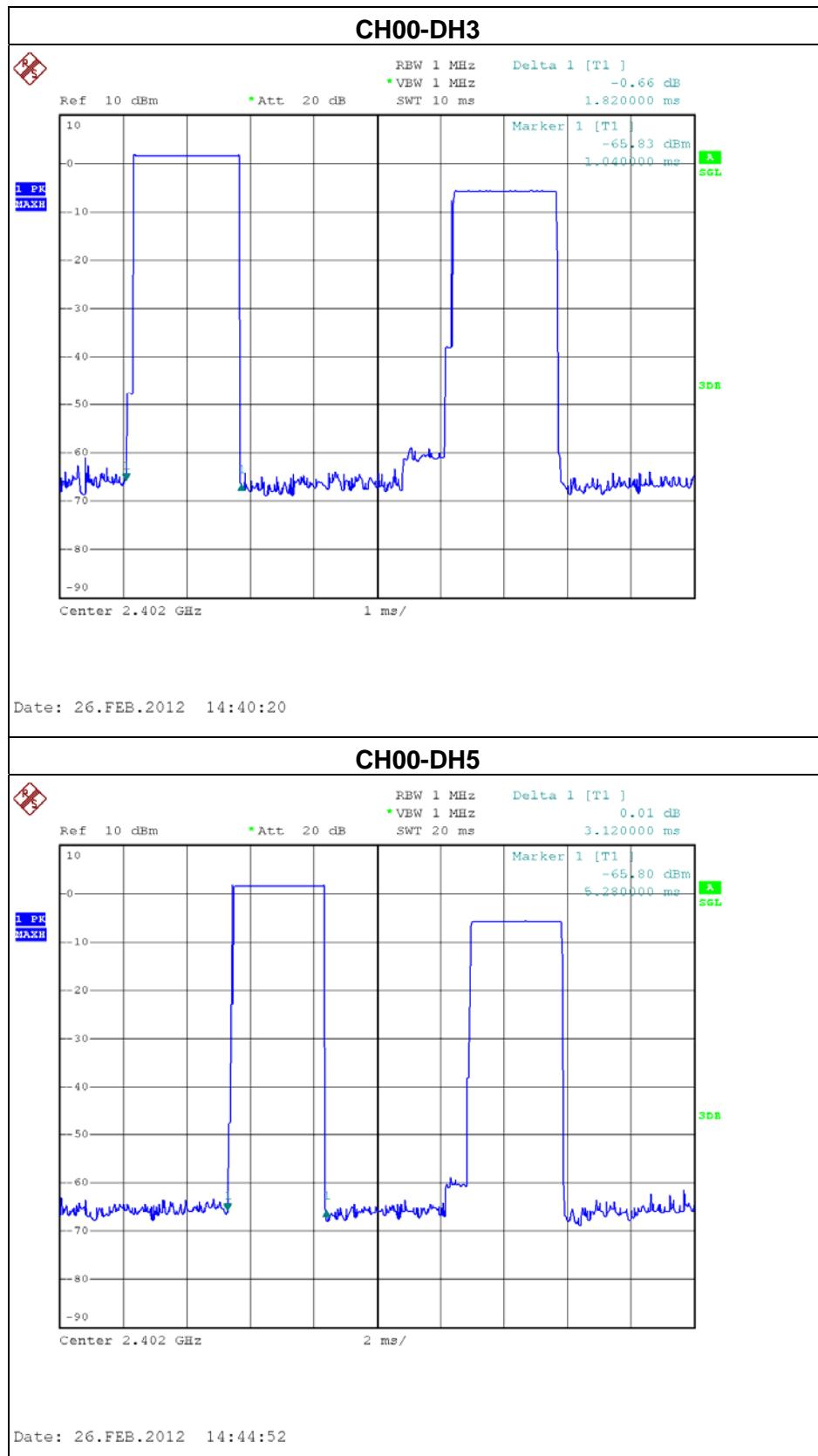


## 6.1.6 TEST RESULTS

EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00-DH1/DH3/DH5 -1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402 MHz	3.1200	0.3328	0.4000
DH3	2402 MHz	1.8200	0.2912	0.4000
DH1	2402 MHz	0.5500	0.1760	0.4000

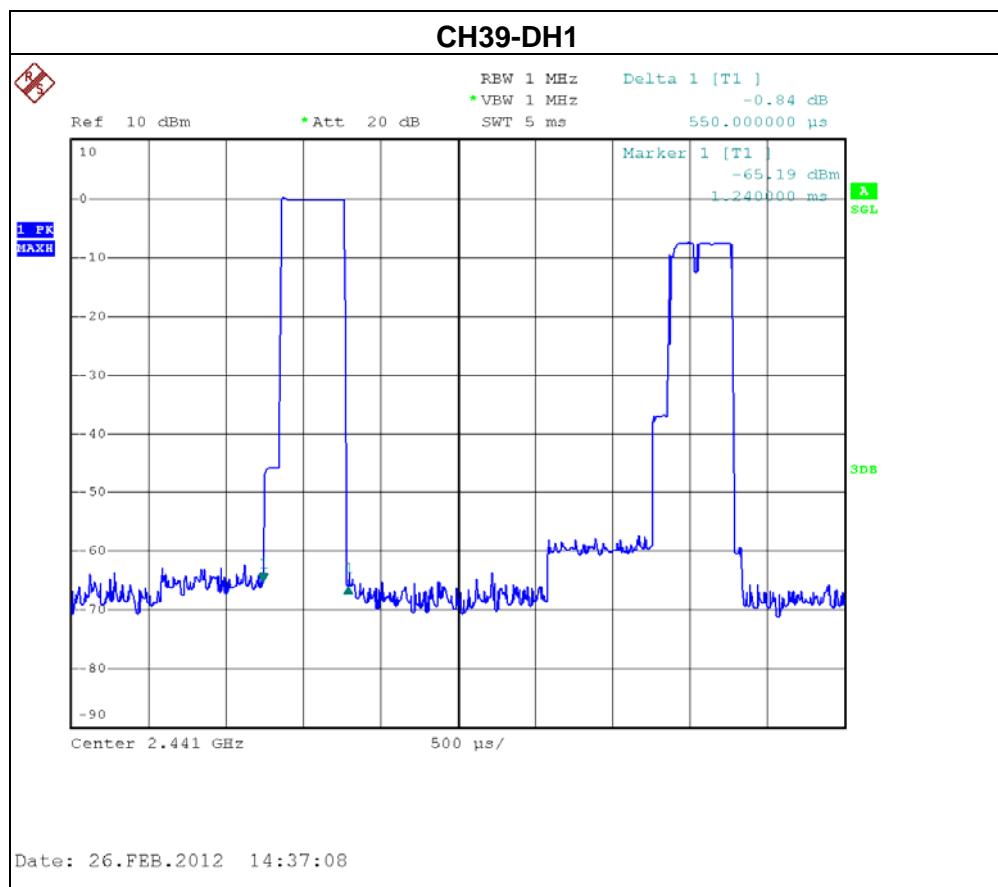


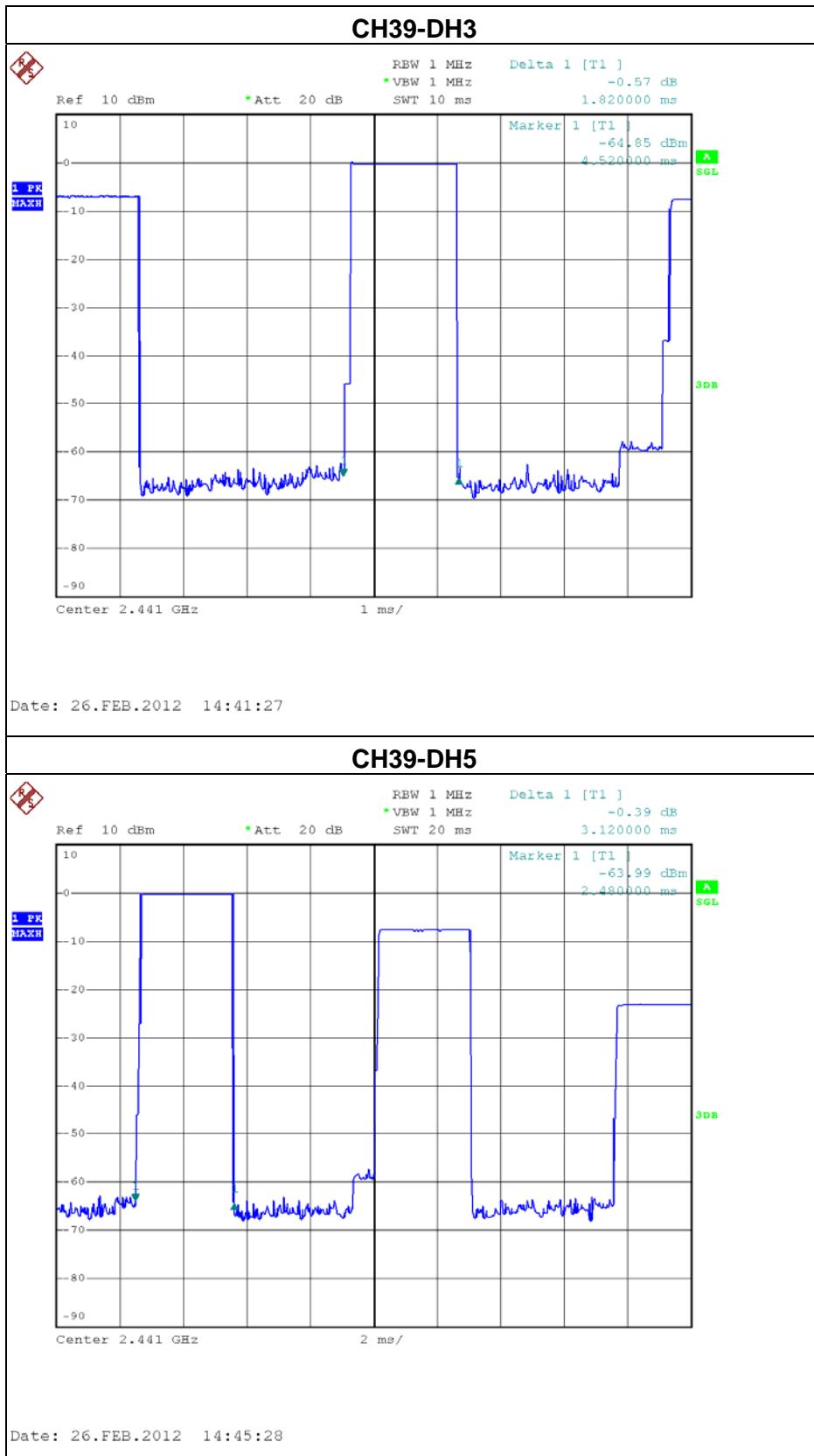




EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH39 -DH1/DH3/DH5 -1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	3.1200	0.3328	0.4000
DH3	2441 MHz	1.8200	0.2912	0.4000
DH1	2441 MHz	0.5500	0.1760	0.4000

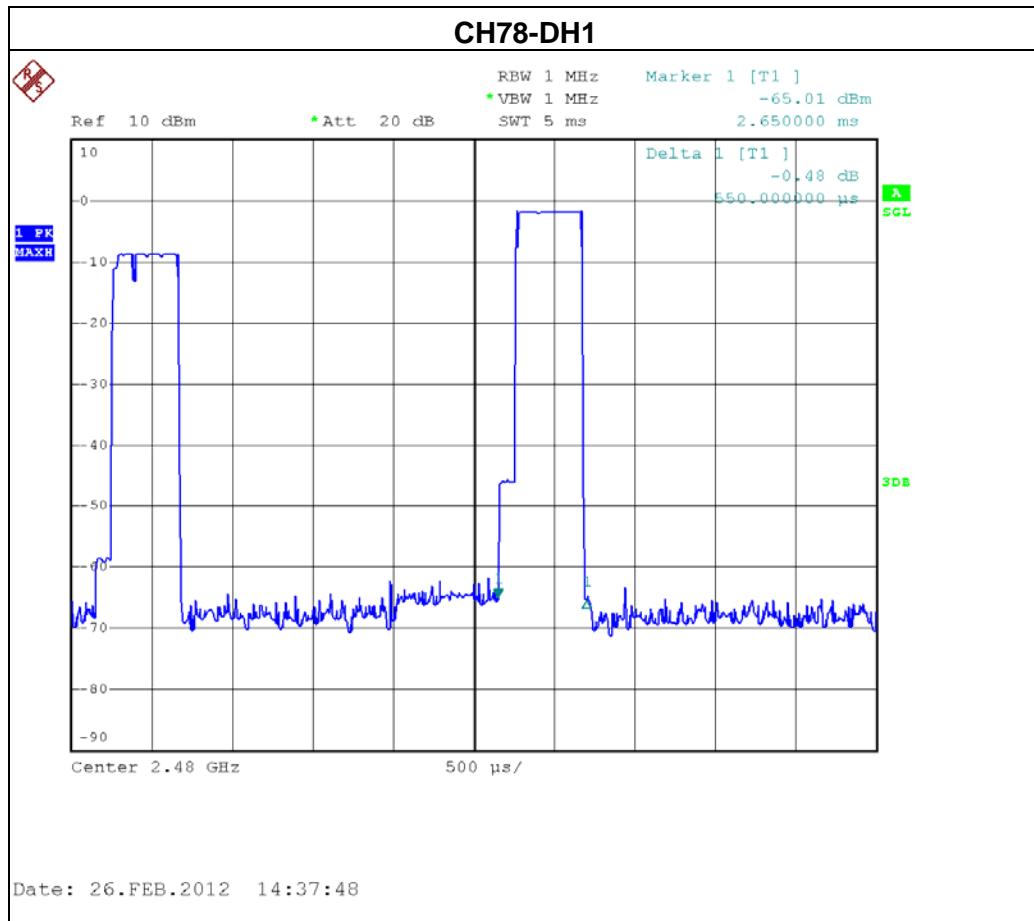


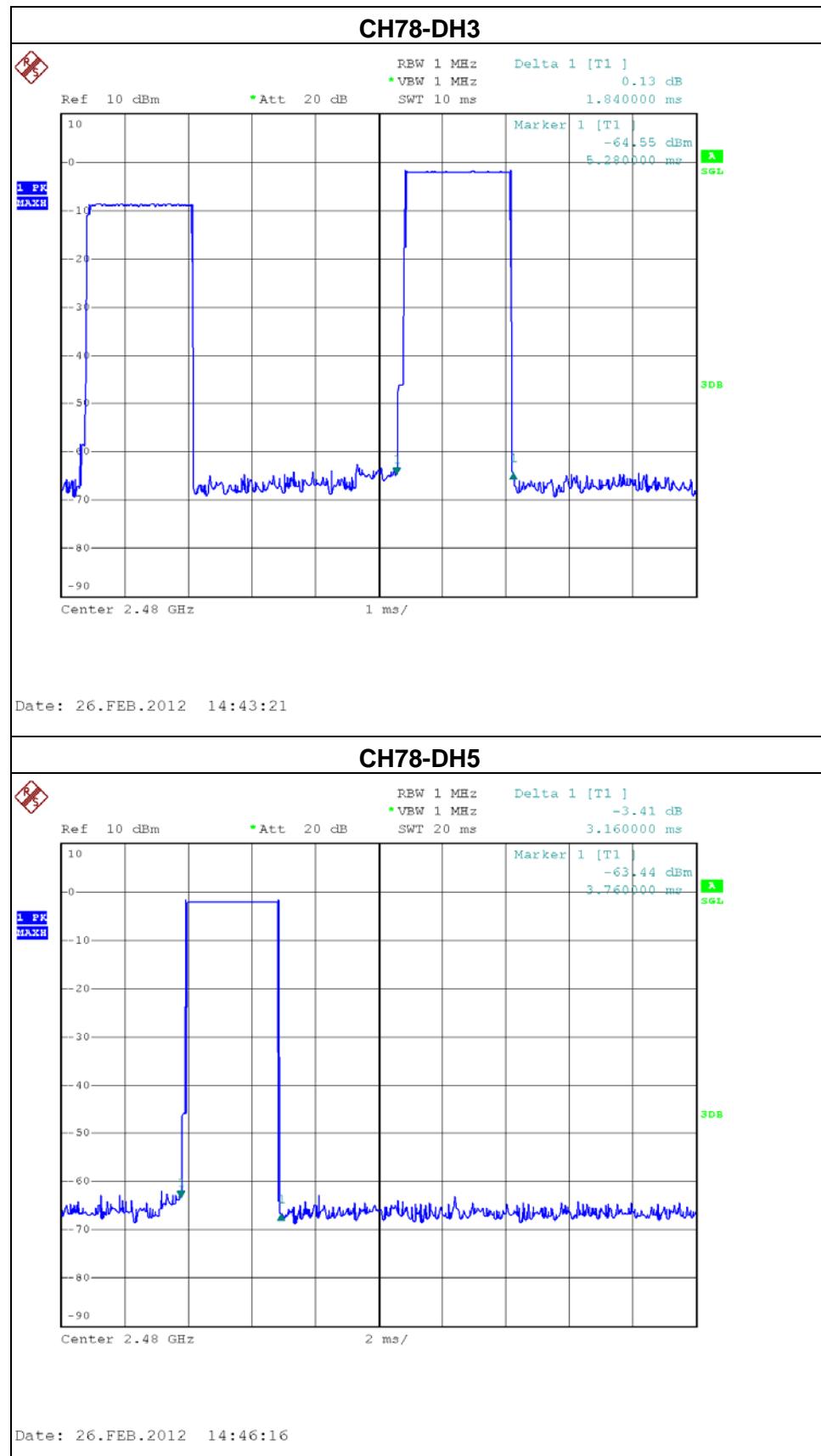




EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH78 -DH1/DH3/DH5-1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2480 MHz	3.1600	0.3371	0.4000
DH3	2480 MHz	1.8400	0.2944	0.4000
DH1	2480 MHz	0.5500	0.1760	0.4000

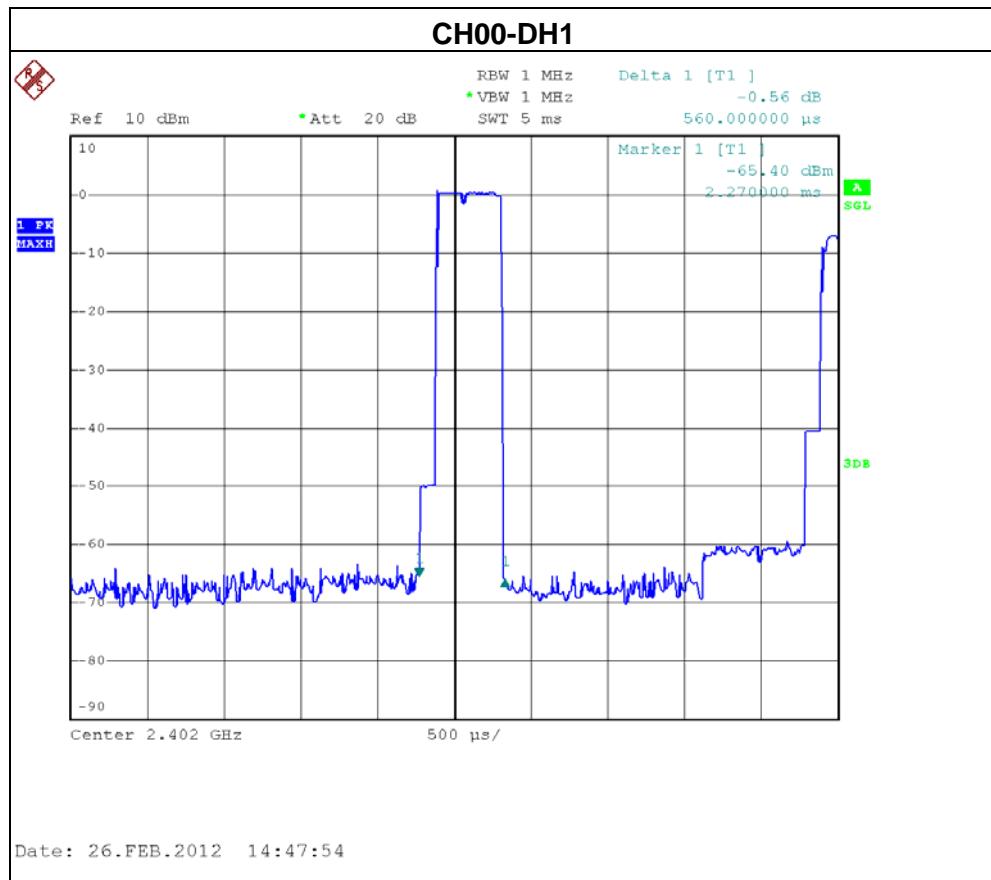


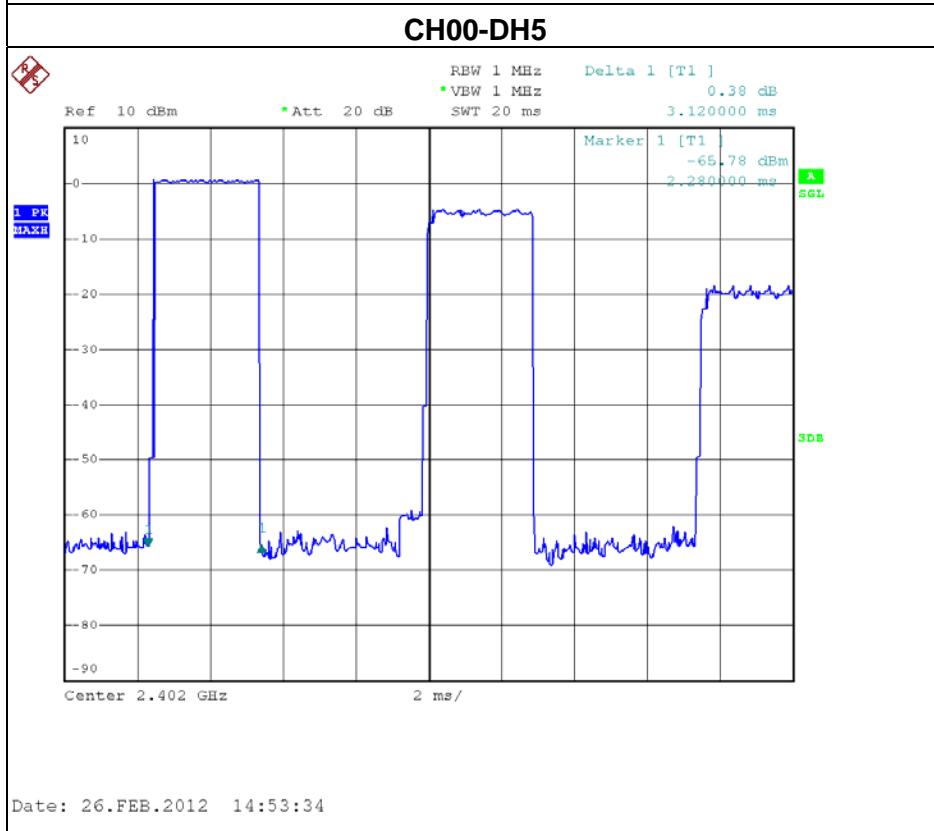
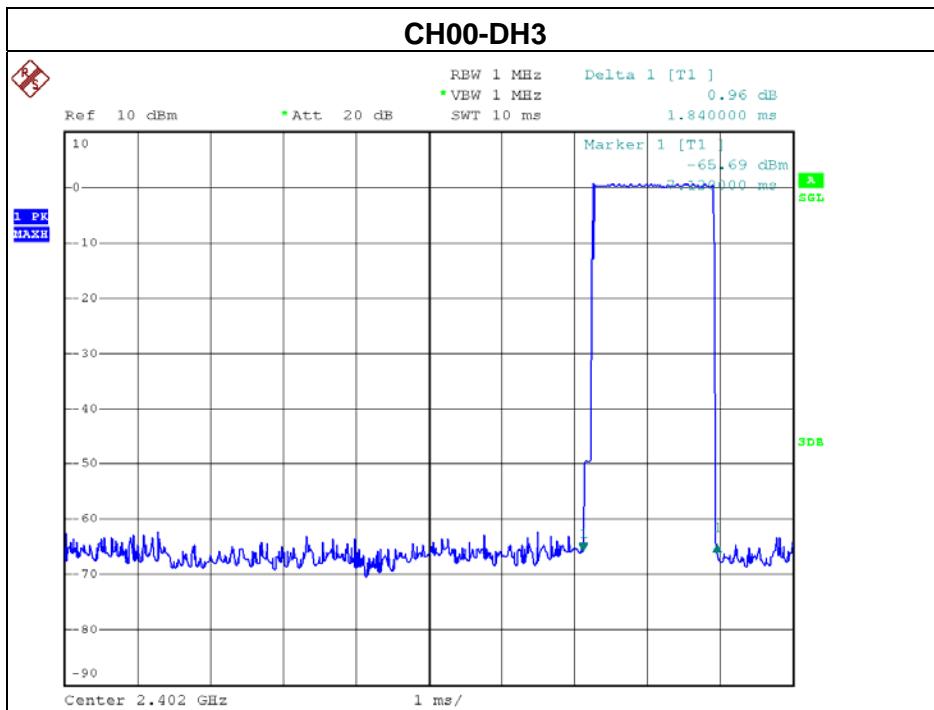




EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00-DH1/DH3/DH5 -3Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402 MHz	3.1200	0.3328	0.4000
DH3	2402 MHz	1.8400	0.2944	0.4000
DH1	2402 MHz	0.5600	0.1792	0.4000

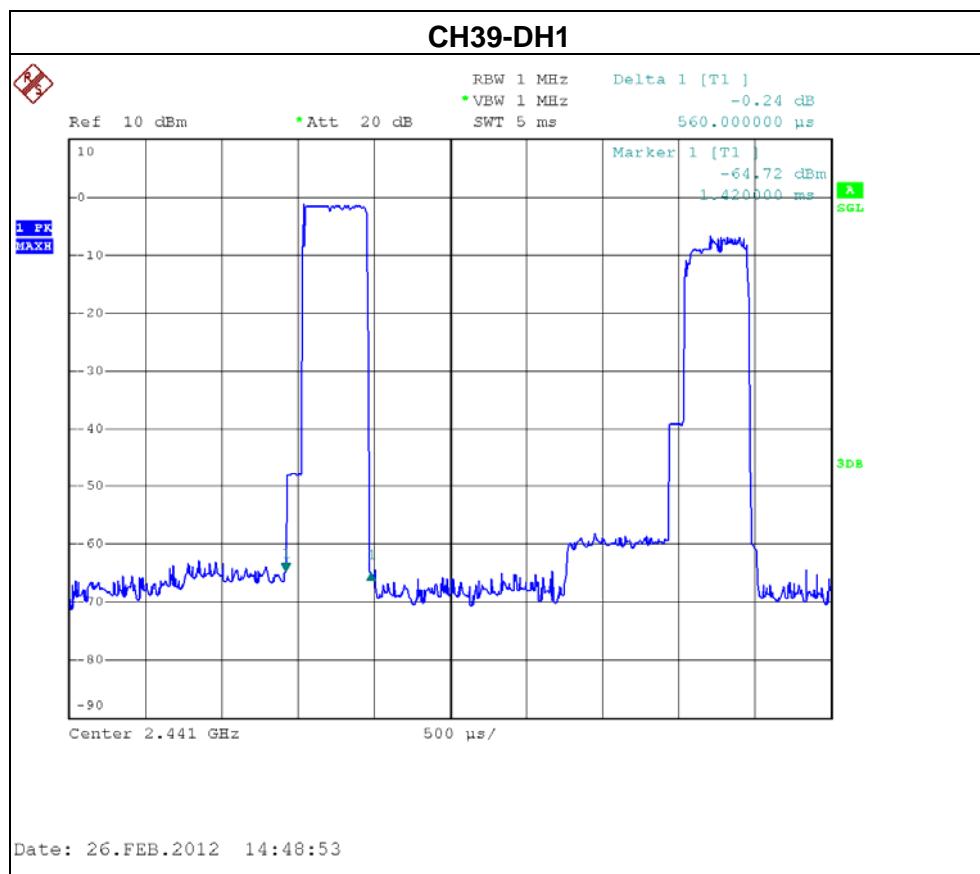


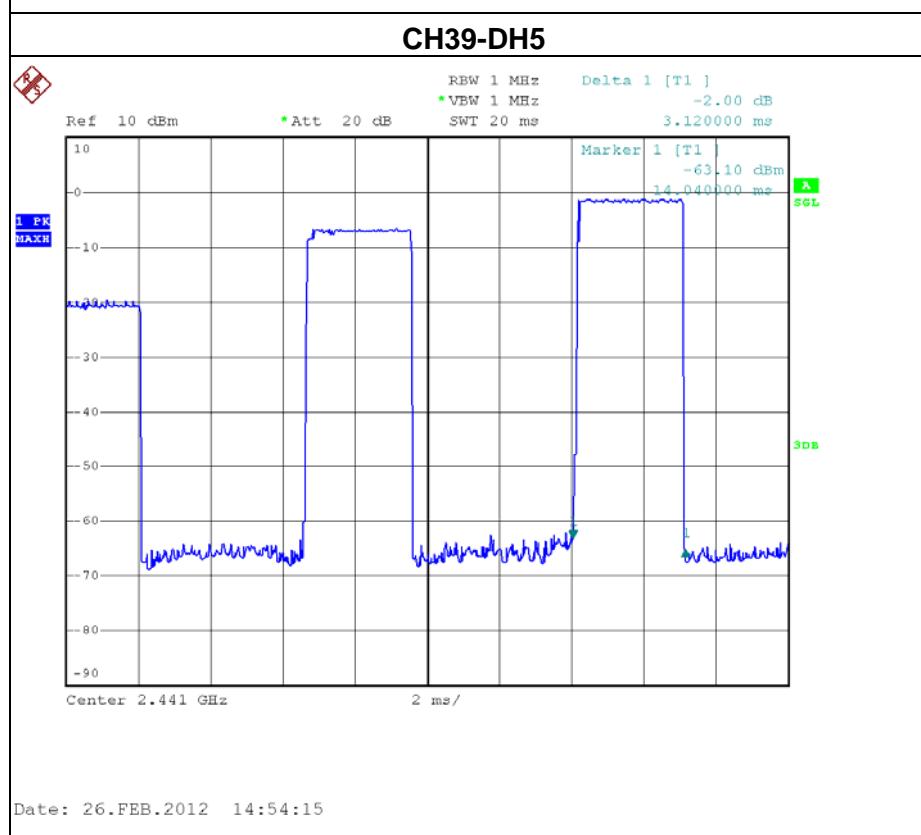
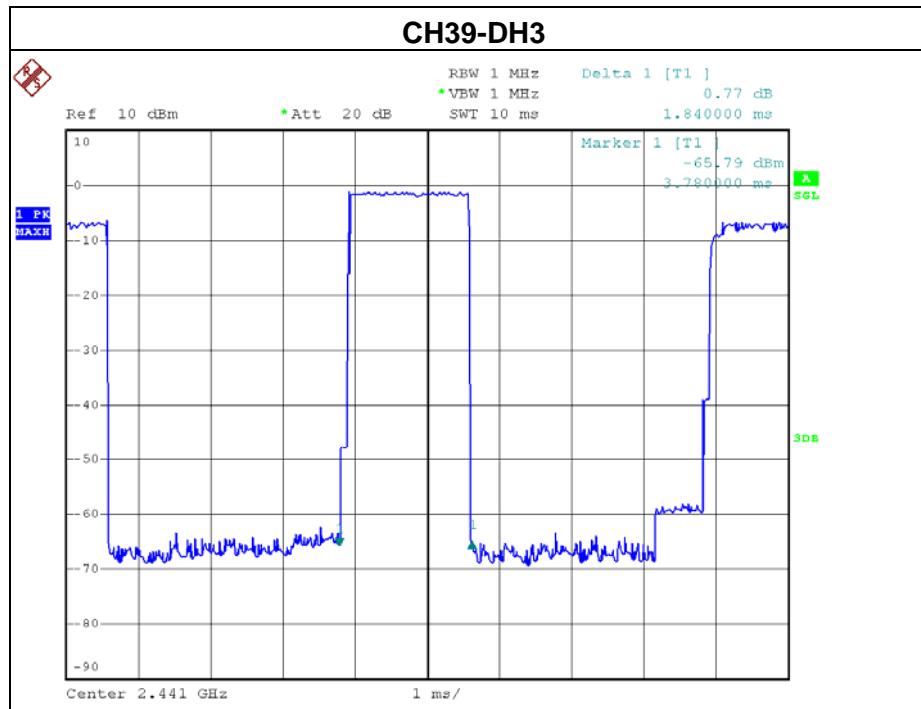




EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH39 -DH1/DH3/DH5 -3Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	3.1200	0.3328	0.4000
DH3	2441 MHz	1.8400	0.2944	0.4000
DH1	2441 MHz	0.5600	0.1792	0.4000

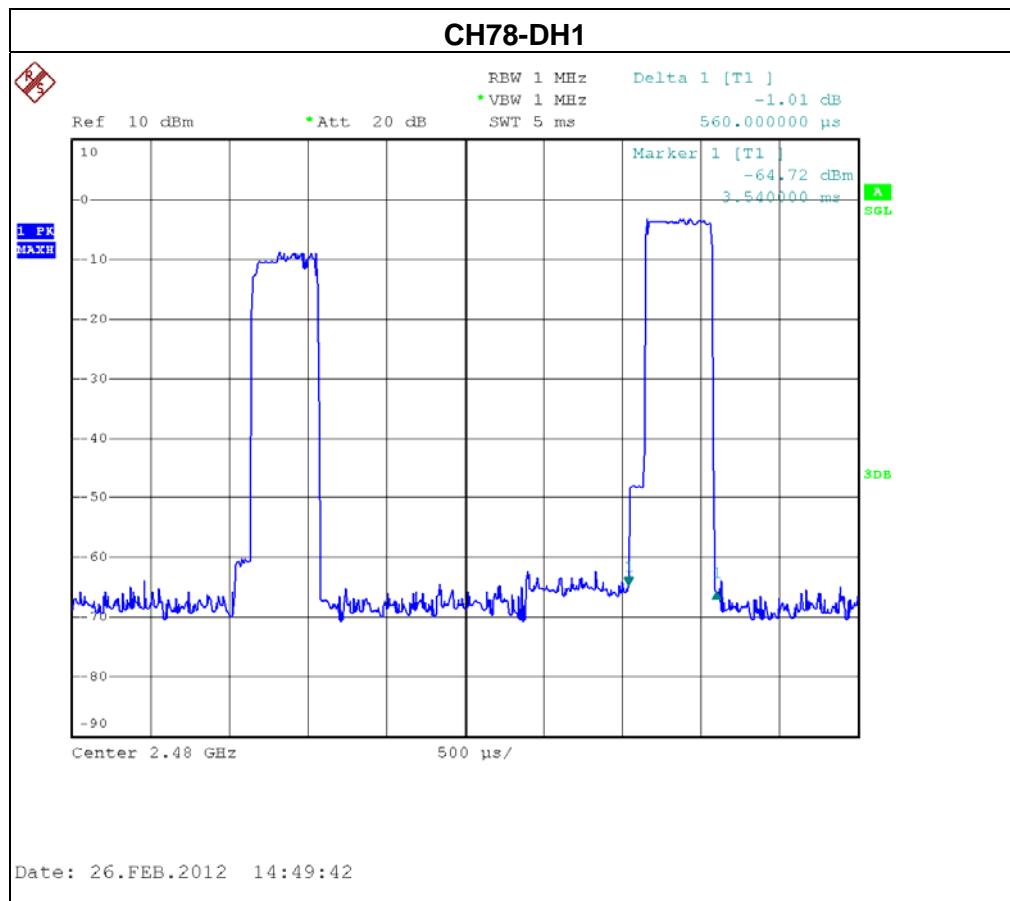


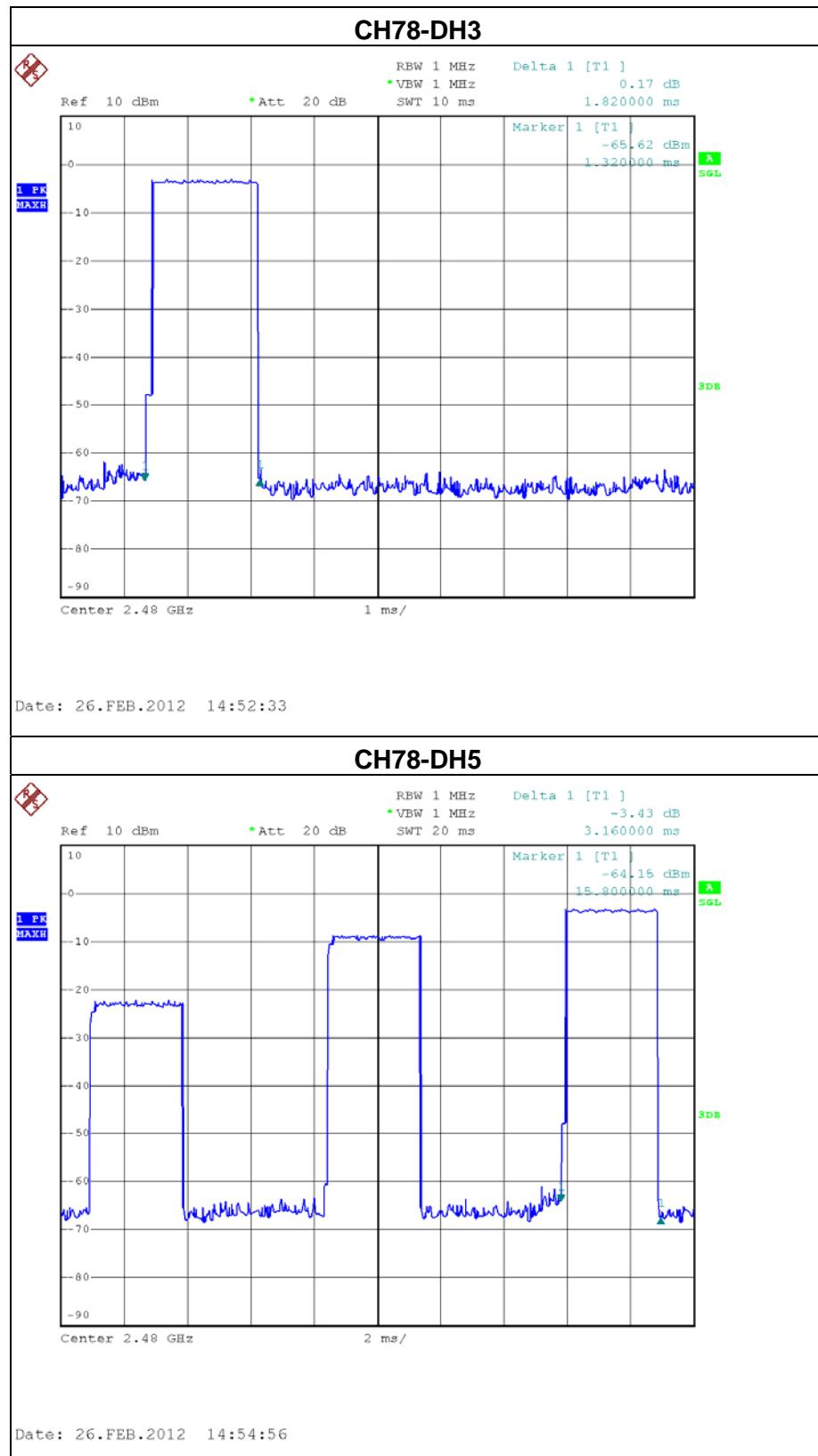




EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH78 -DH1/DH3/DH5-3Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2480 MHz	3.1600	0.3371	0.4000
DH3	2480 MHz	1.8200	0.2912	0.4000
DH1	2480 MHz	0.5600	0.1792	0.4000







## 7. HOPPING CHANNEL SEPARATION MEASUREMENT

### 7.1 APPLIED PROCEDURES / LIMIT

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.

#### 7.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

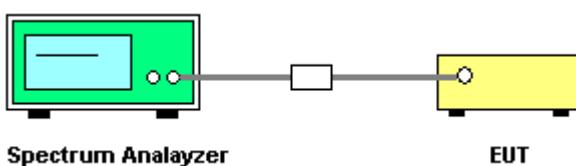
#### 7.1.2 TEST PROCEDURE

- The EUT must have its hopping function enabled
- Span = wide enough to capture the peaks of two adjacent channels  
Resolution (or IF) Bandwidth (RBW)  $\geq$  1% of the span  
Video (or Average) Bandwidth (VBW)  $\geq$  RBW  
Sweep = auto  
Detector function = peak  
Trace = max hold

#### 7.1.3 DEVIATION FROM STANDARD

No deviation.

#### 7.1.4 TEST SETUP



#### 7.1.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in hopping mode.

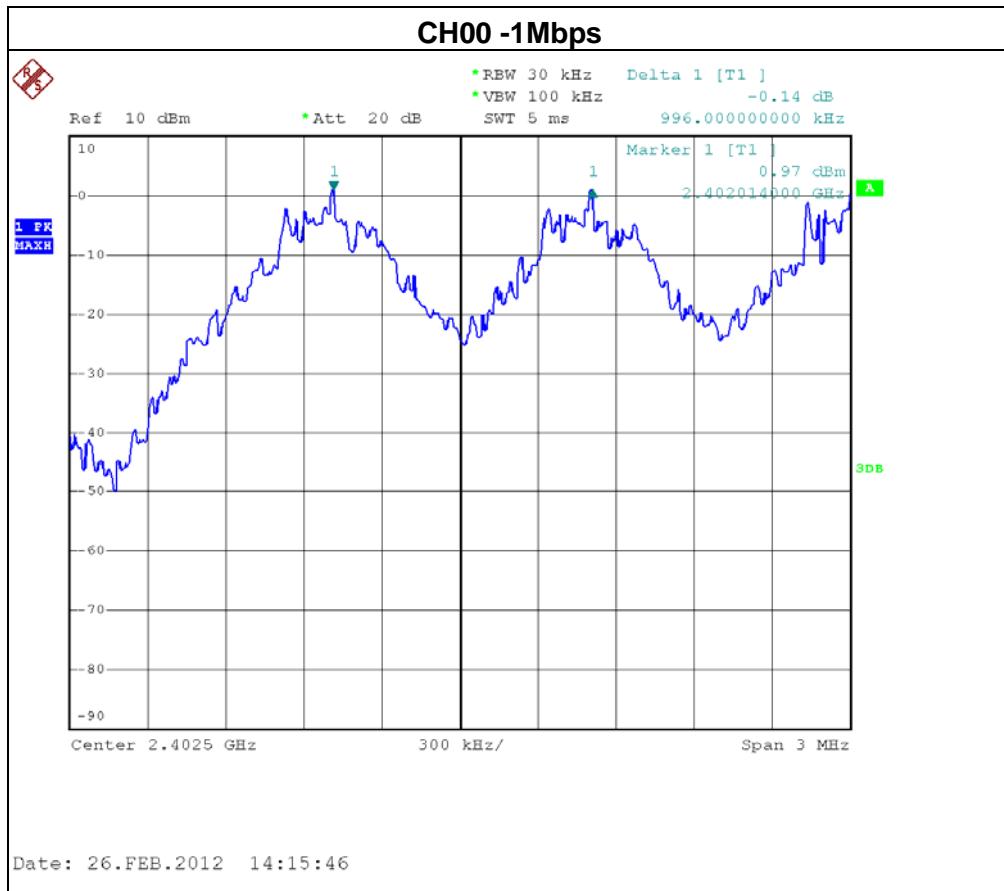


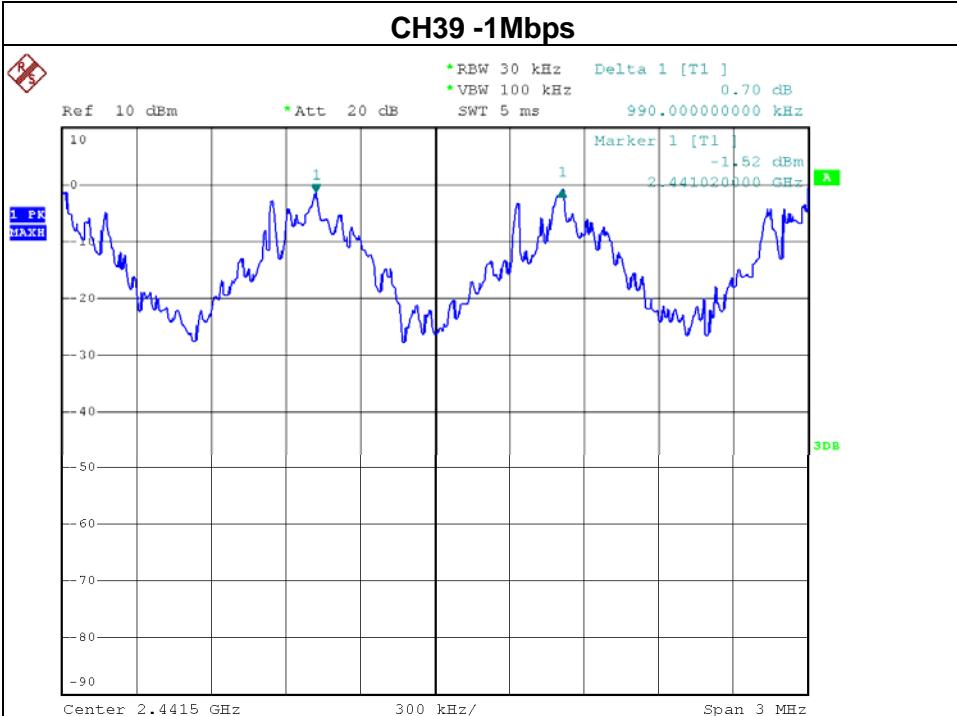
## 7.1.6 TEST RESULTS

EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /CH78-1Mbps		

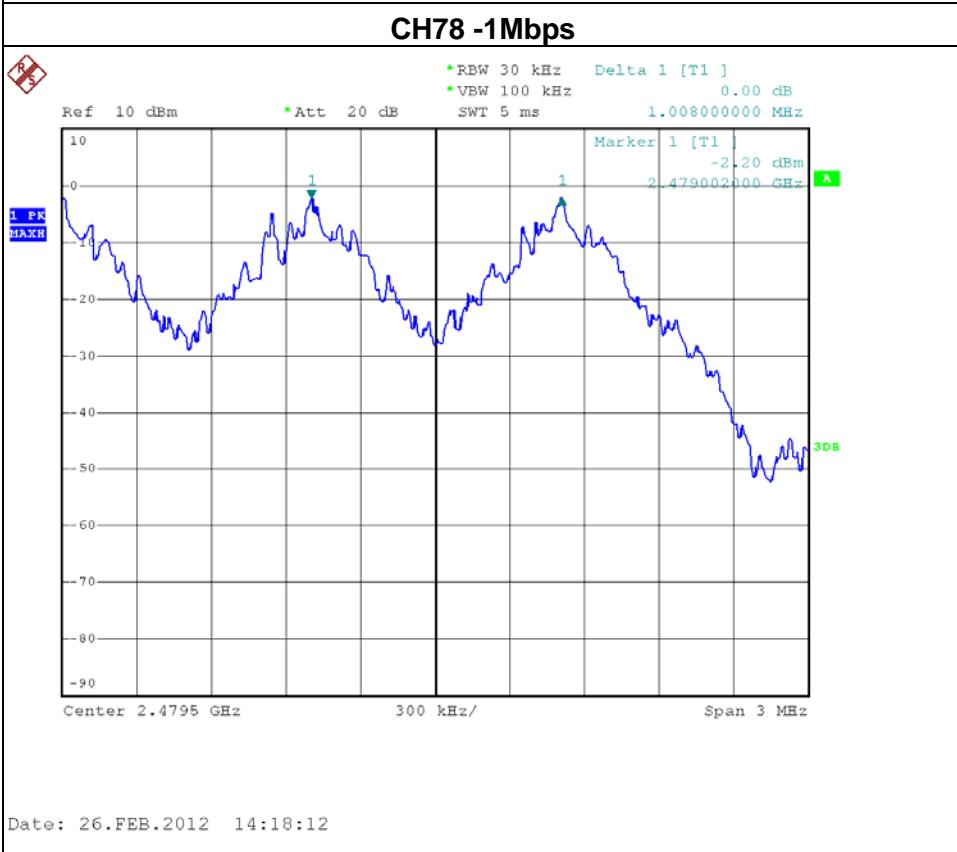
Frequency	Ch. Separation (KHz)	20dB Bandwidth (kHz)	Result
2402 MHz	996	870	Complies
2441 MHz	990	880	Complies
2480 MHz	1008	890	Complies

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth





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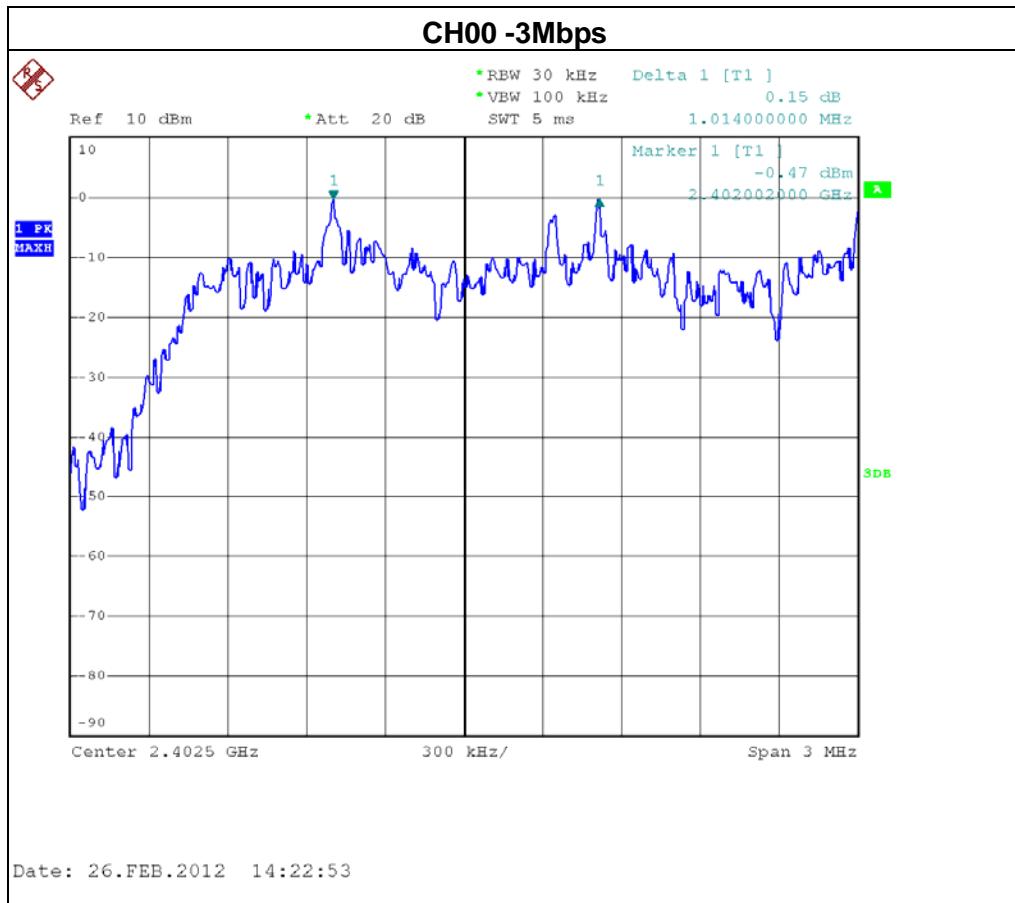
Date: 26.FEB.2012 14:18:12



EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /CH78-3Mbps		

Frequency	Ch. Separation (KHz)	20dB Bandwidth (kHz)	Result
2402 MHz	1014	1220	Complies
2441 MHz	1008	1220	Complies
2480 MHz	984	1220	Complies

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth







## 8. BANDWIDTH TEST

### 8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(2)	Bandwidth	<= 1 MHz (20dB bandwidth)	2400-2483.5	PASS

#### 8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

#### 8.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

#### 8.1.3 DEVIATION FROM STANDARD

No deviation.

#### 8.1.4 TEST SETUP



#### 8.1.5 EUT OPERATION CONDITIONS

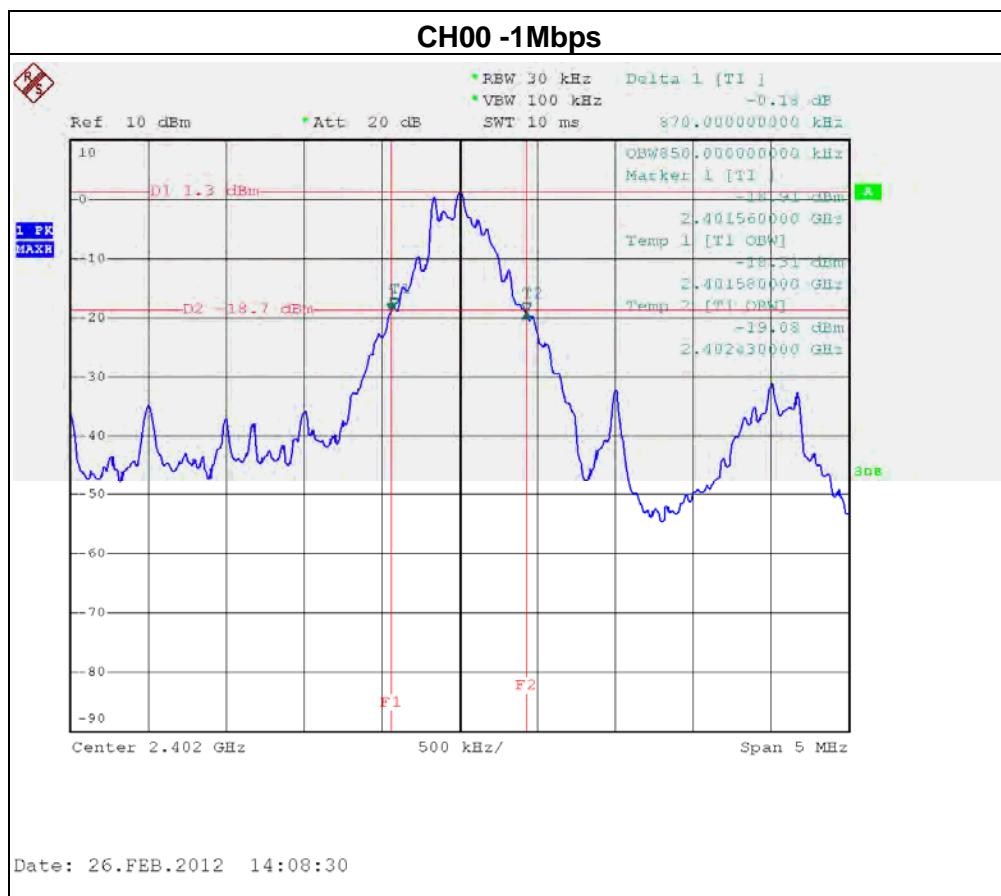
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

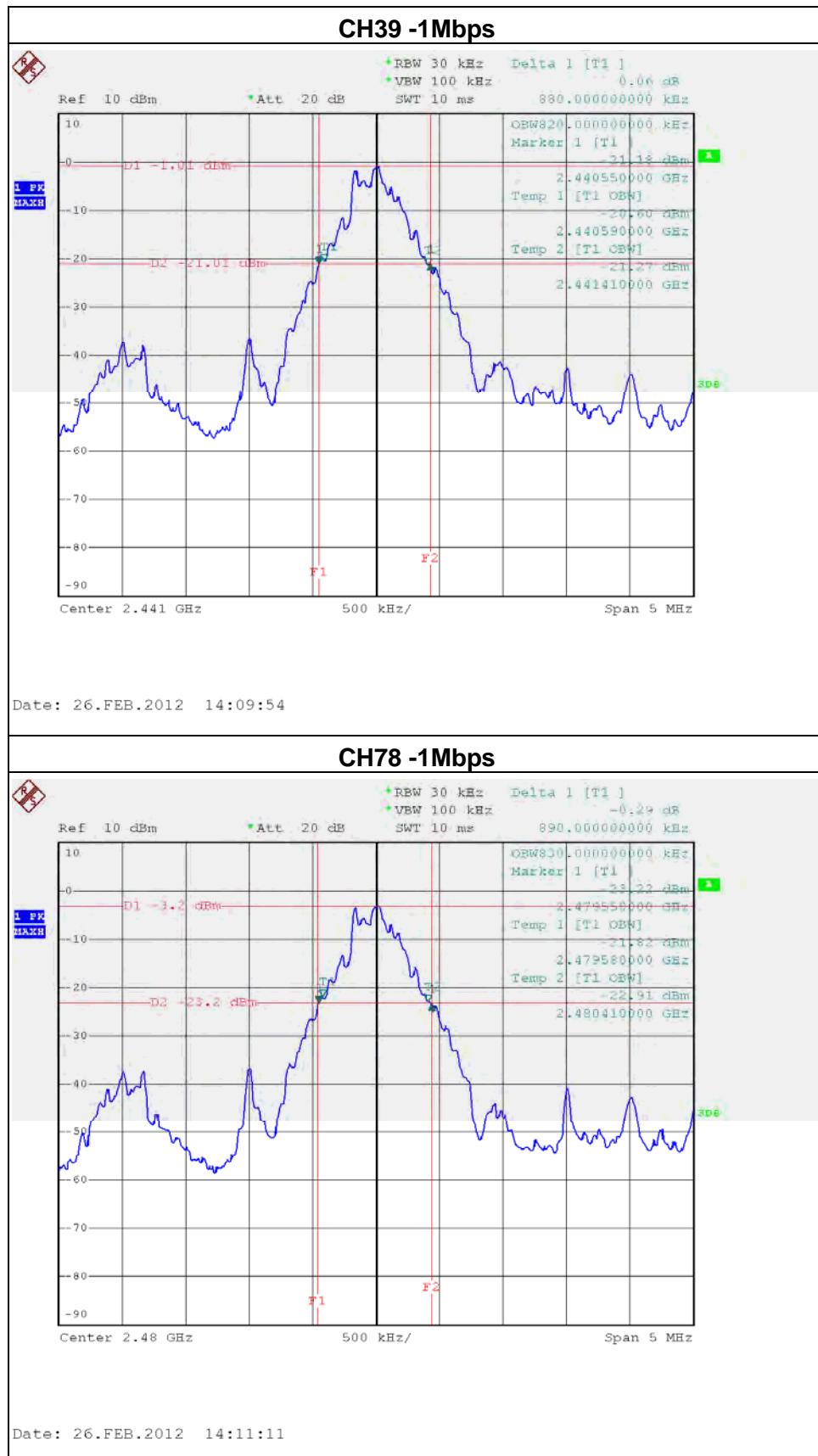


### 8.1.6 TEST RESULTS

EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /CH78-1Mbps		

Frequency	20dB Bandwidth (KHz)	99% Occupied Bandwidth (KHz)	Channel Separation (MHz)	Result
2402 MHz	870	850	<= 1MHz	<b>PASS</b>
2441 MHz	880	820	<= 1MHz	<b>PASS</b>
2480 MHz	890	830	<= 1MHz	<b>PASS</b>

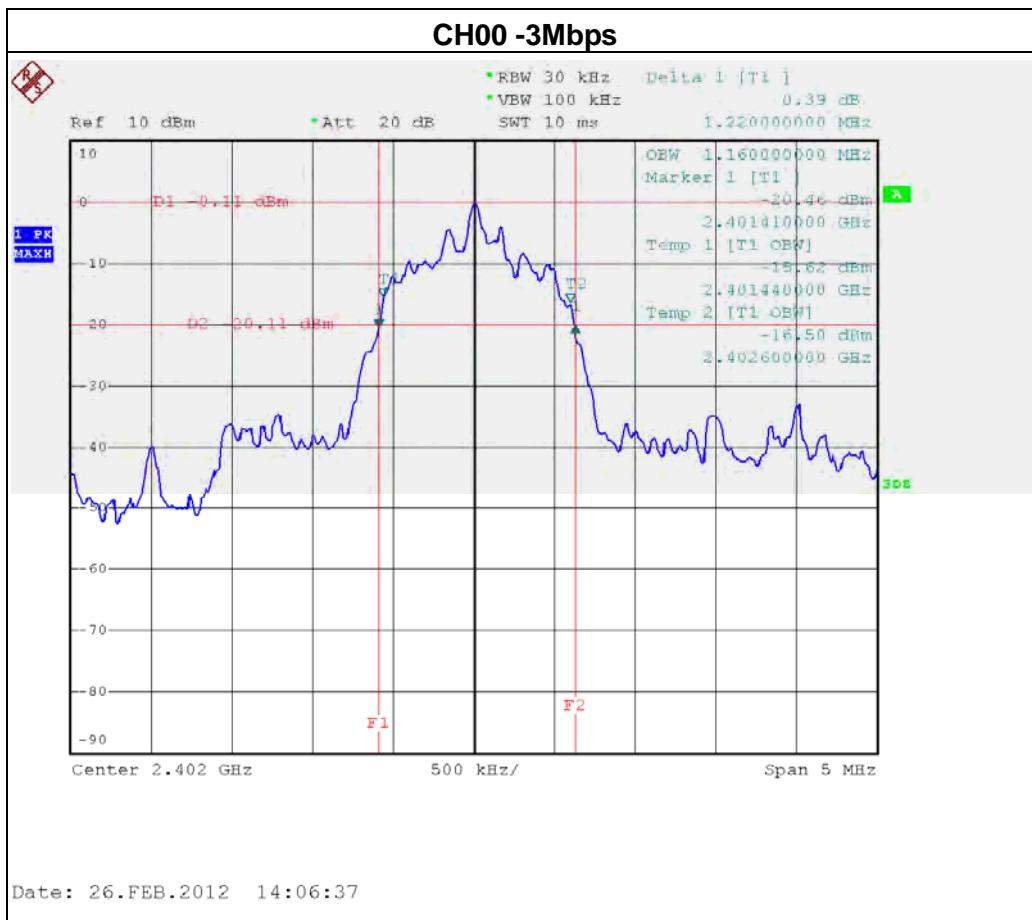


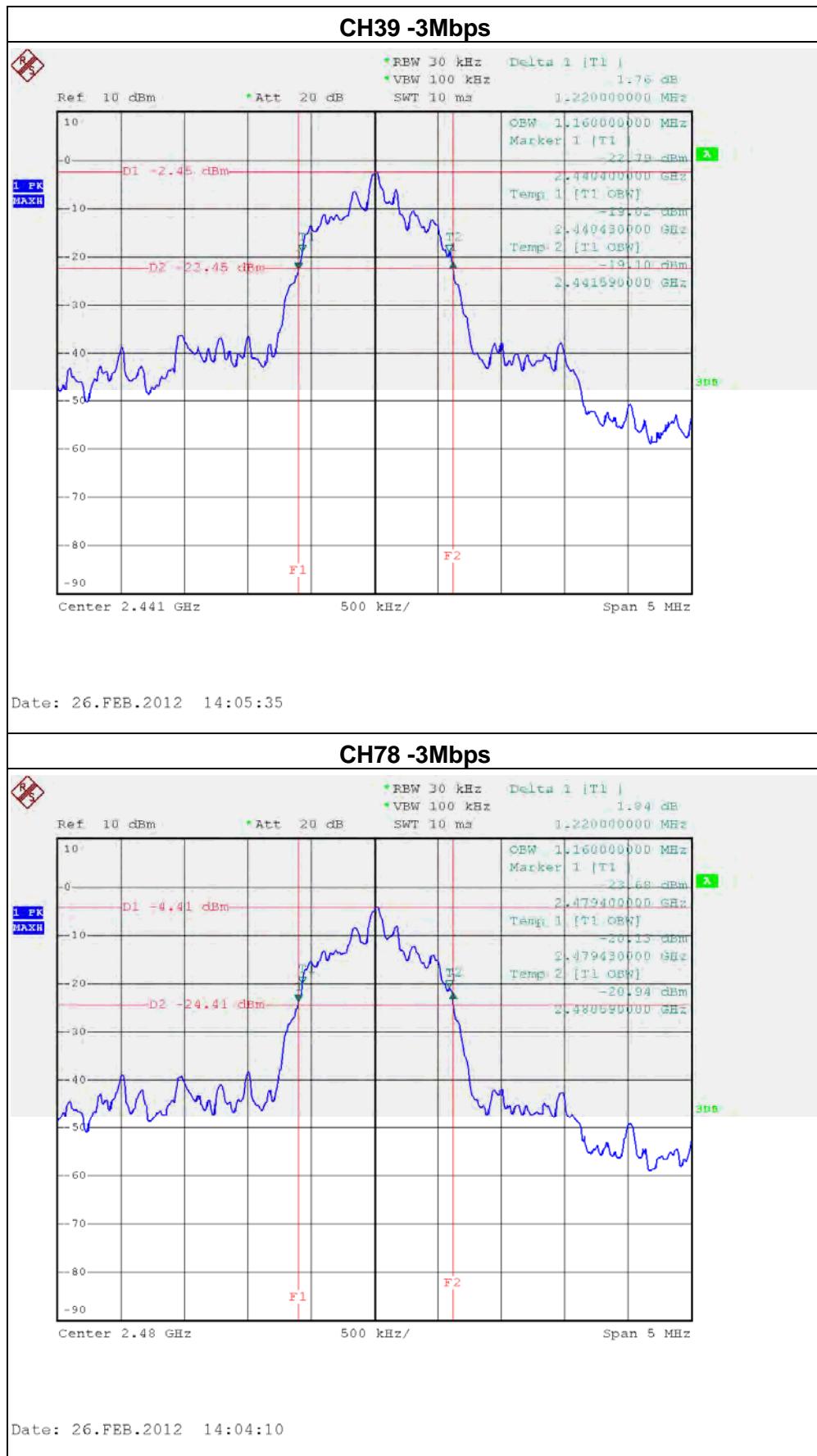




EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /CH78-3Mbps		

Frequency	20dB Bandwidth (KHz)	99% Occupied Bandwidth (KHz)	Channel Separation (MHz)	Result
2402 MHz	1220	1160	<= 1MHz	PASS
2441 MHz	1220	1160	<= 1MHz	PASS
2480 MHz	1220	1160	<= 1MHz	PASS







## 9. PEAK OUTPUT POWER TEST

### 9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS

#### 9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: " N/A " denotes No Model Name , Serial No. or No Calibration specified.

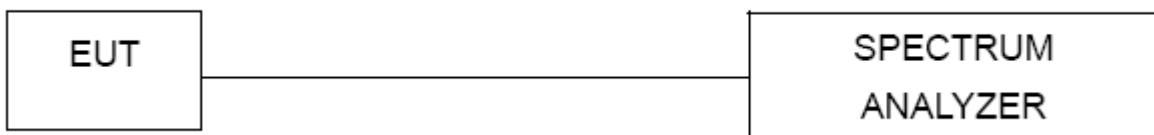
#### 9.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 3MHz, VBW= 3MHz, Sweep time = Auto.

#### 9.1.3 DEVIATION FROM STANDARD

No deviation.

#### 9.1.4 TEST SETUP



#### 9.1.5 EUT OPERATION CONDITIONS

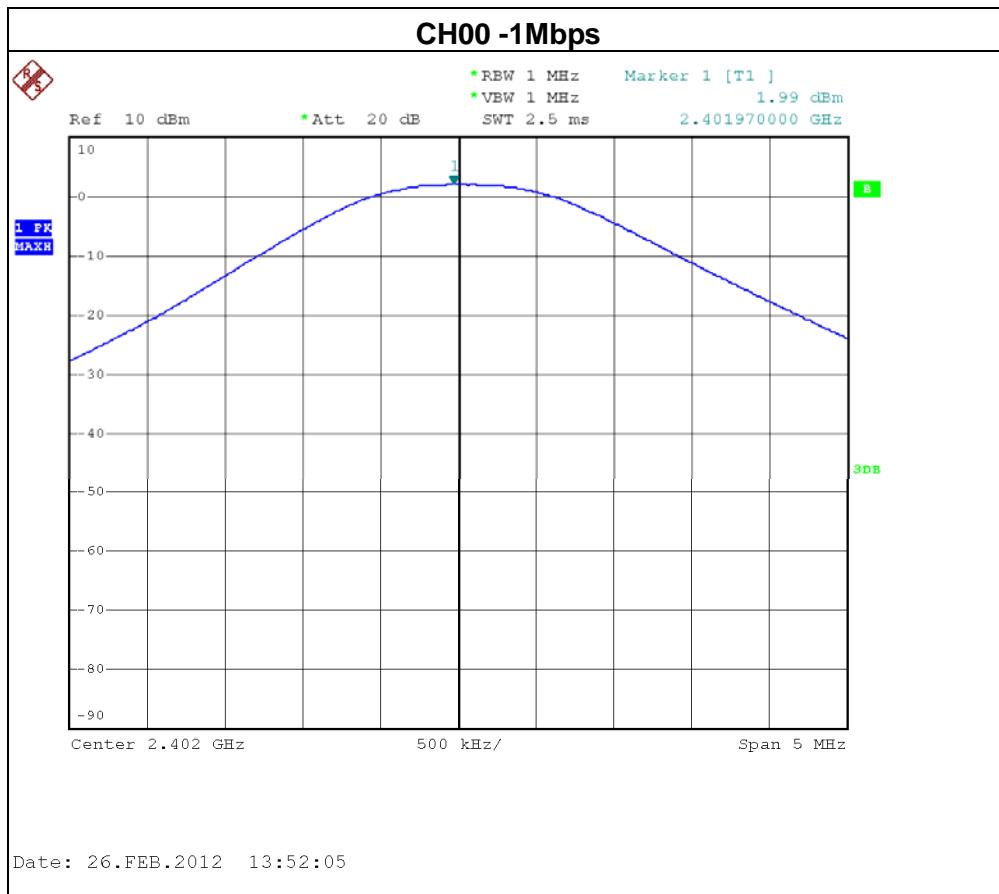
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

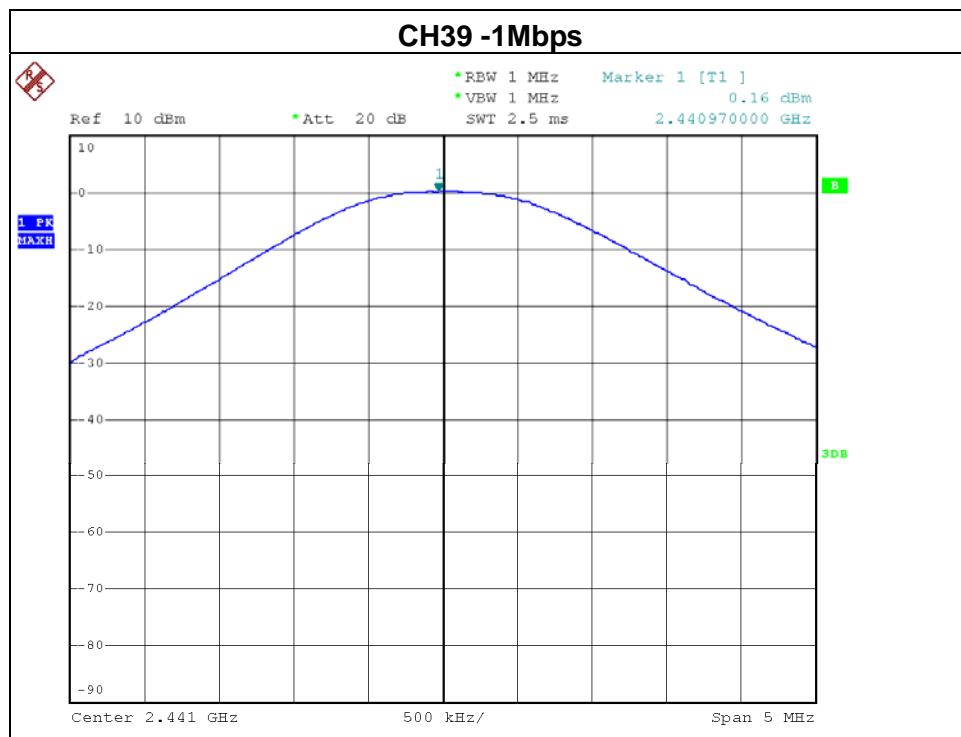


## 9.1.6 TEST RESULTS

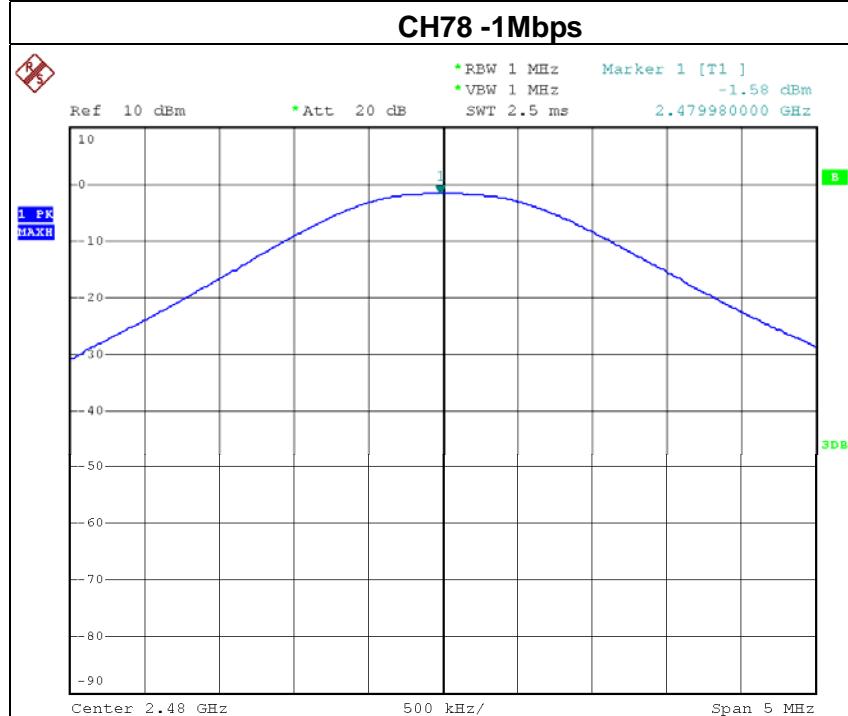
EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00/ CH39 /CH78 -1Mbps		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402	1.99	21	0.125
CH39	2441	0.16	21	0.125
CH78	2480	-1.58	21	0.125





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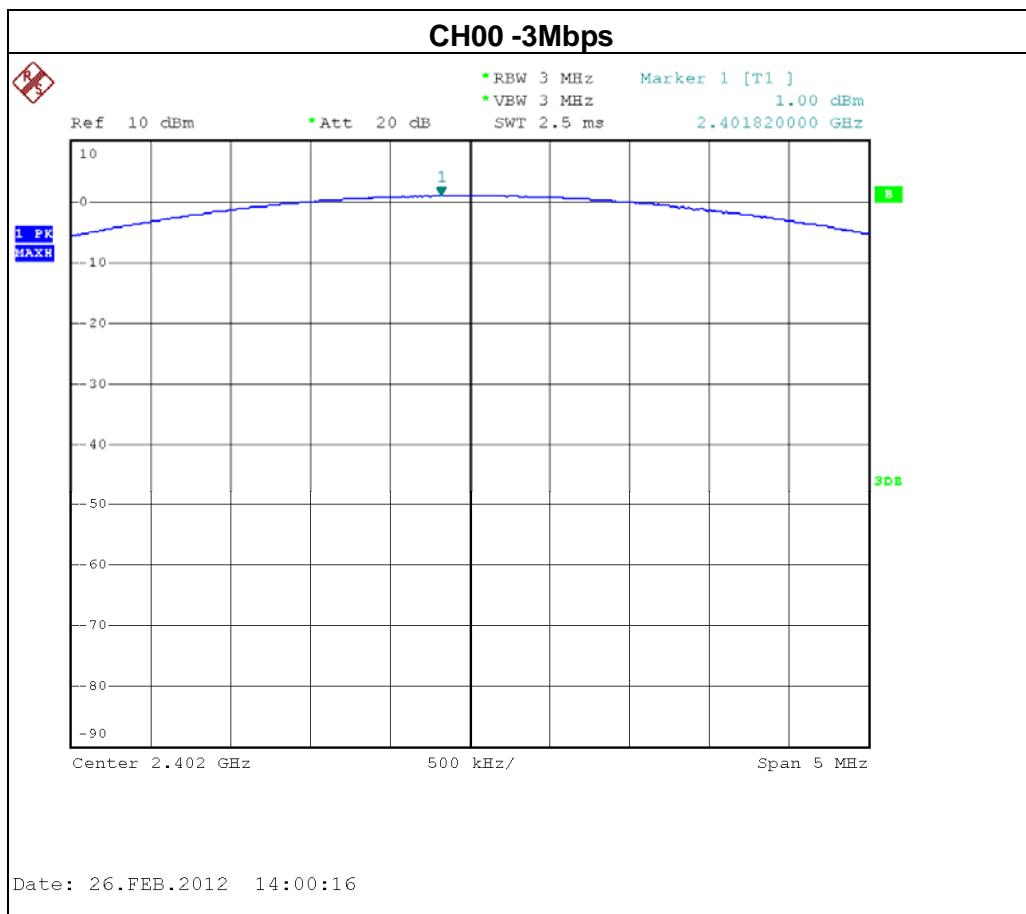


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EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00/ CH39 /CH78 -3Mbps		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402	1.00	21	0.125
CH39	2441	-0.79	21	0.125
CH78	2480	-2.71	21	0.125







## 10. ANTENNA CONDUCTED SPURIOUS EMISSION

### 10.1 APPLIED PROCEDURES / LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

### 10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

### 10.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

### 10.1.3 DEVIATION FROM STANDARD

No deviation.

### 10.1.4 TEST SETUP



### 10.1.5 EUT OPERATION CONDITIONS

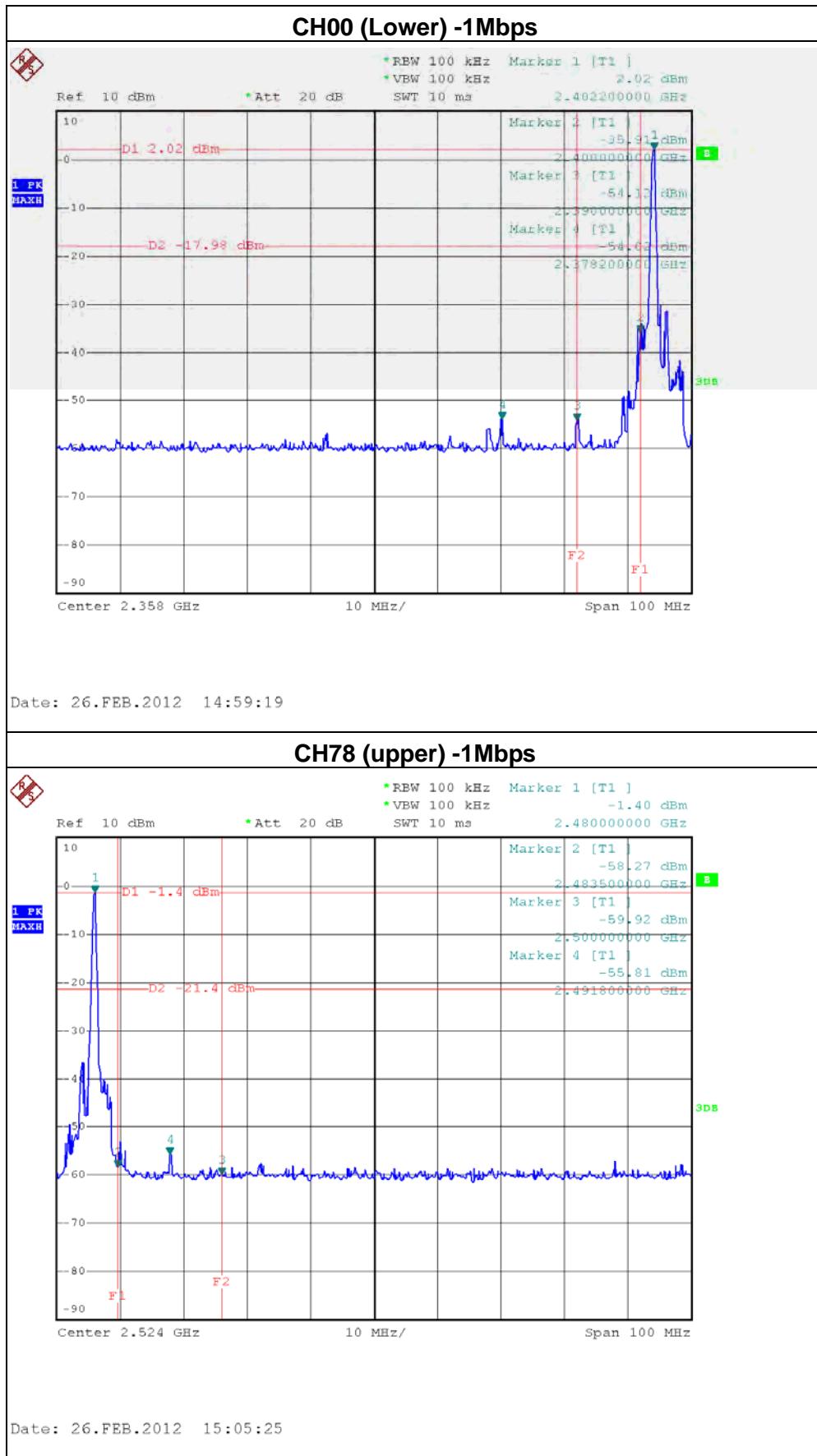
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

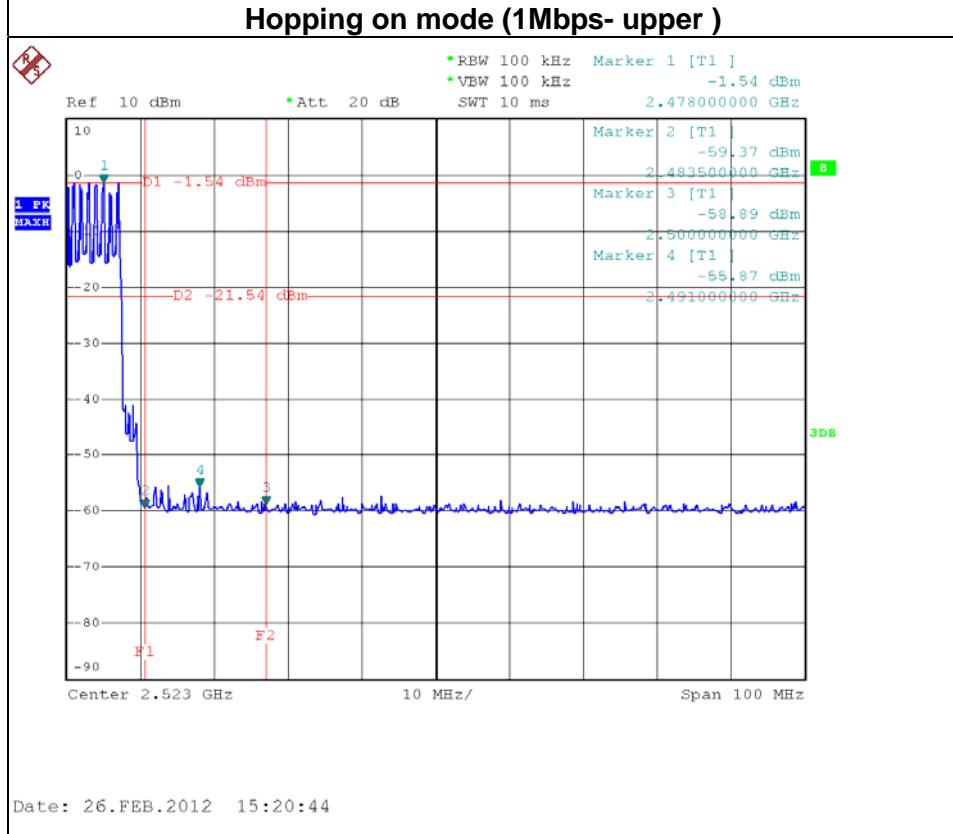
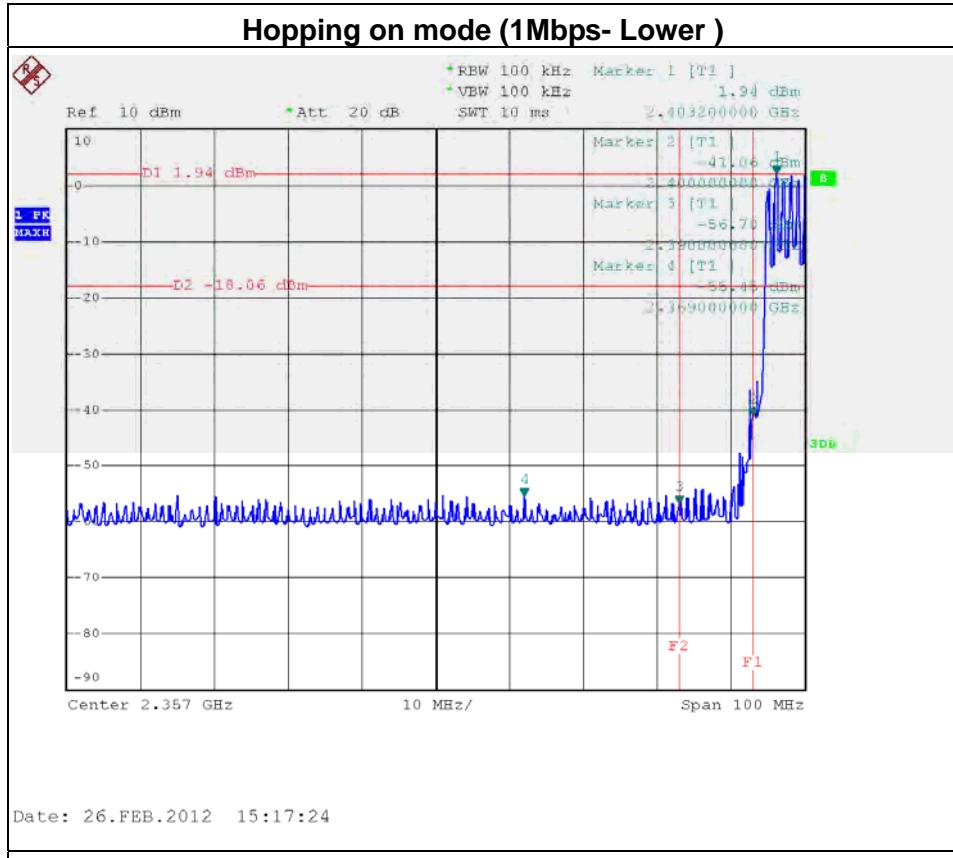


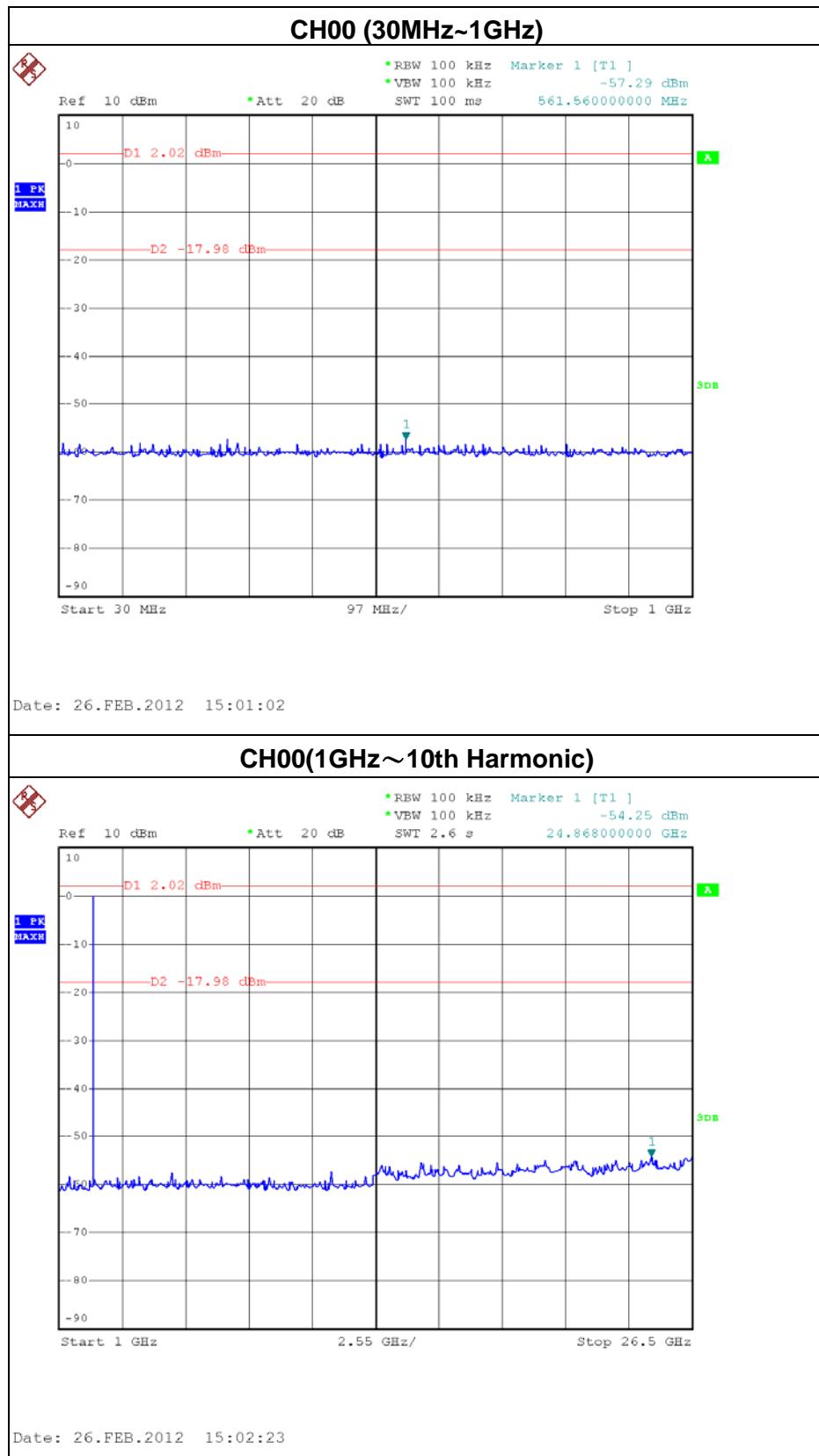
#### 10.1.6 TEST RESULTS

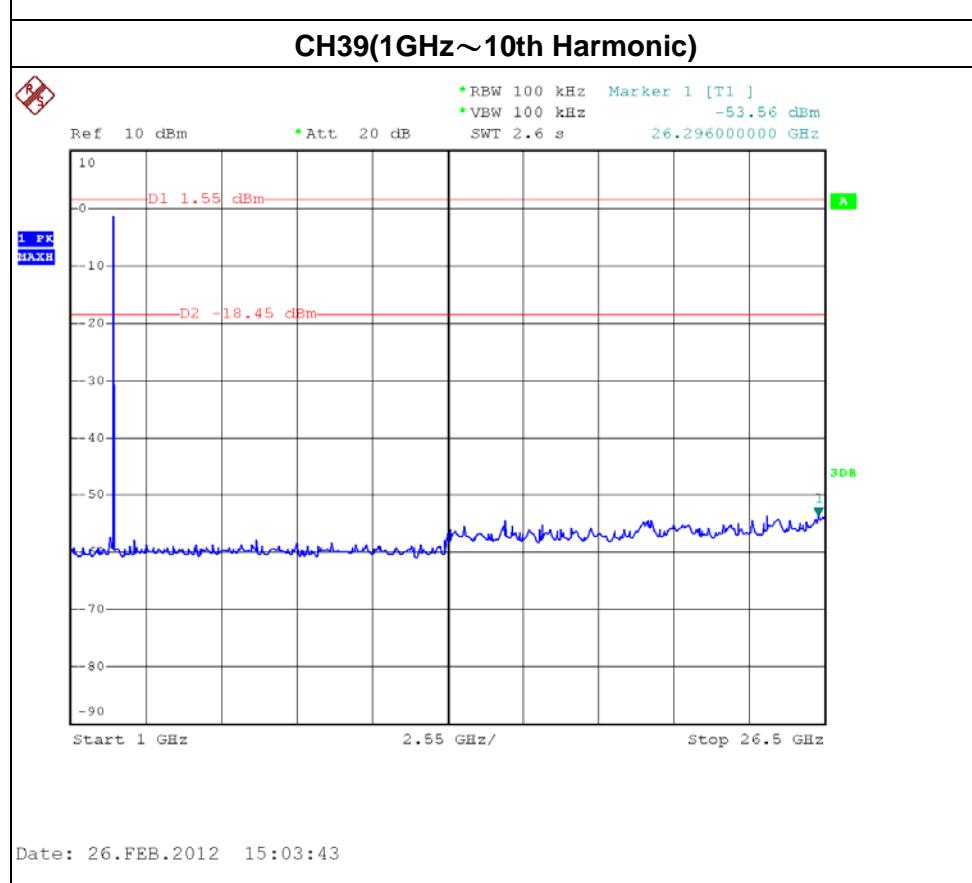
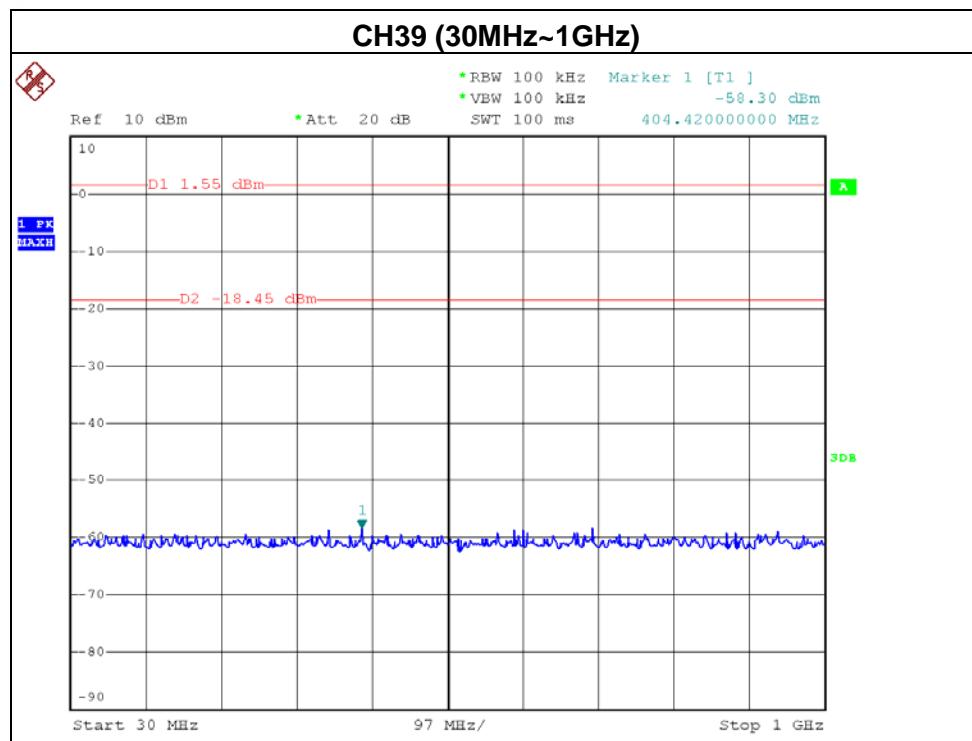
EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39/ CH78-1Mbps & Hopping on mode (1Mbps)		

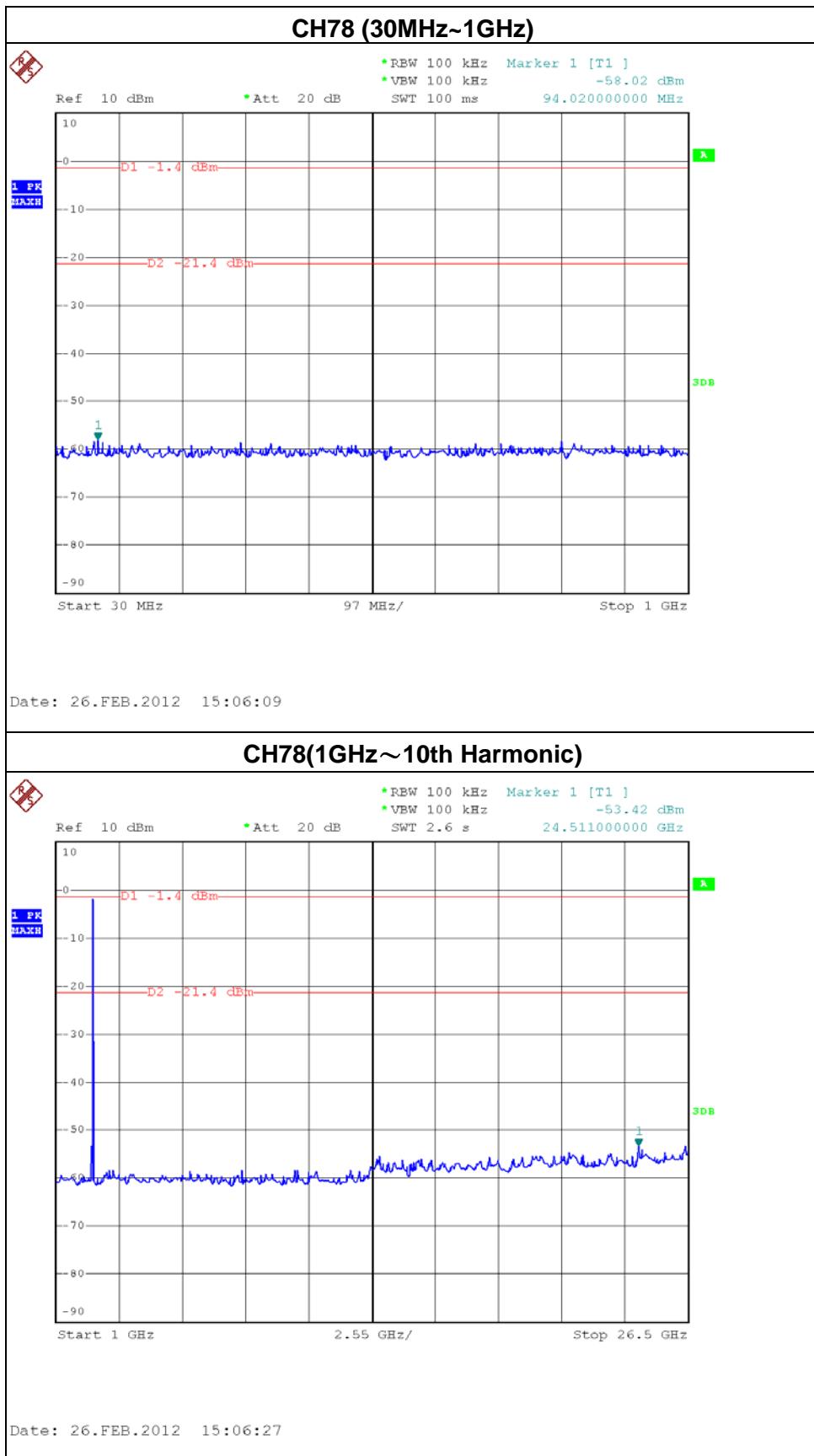
The max. radio frequency power in any 100kHz bandwidth within the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2400.00	-35.91	2491.80	-55.81
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			







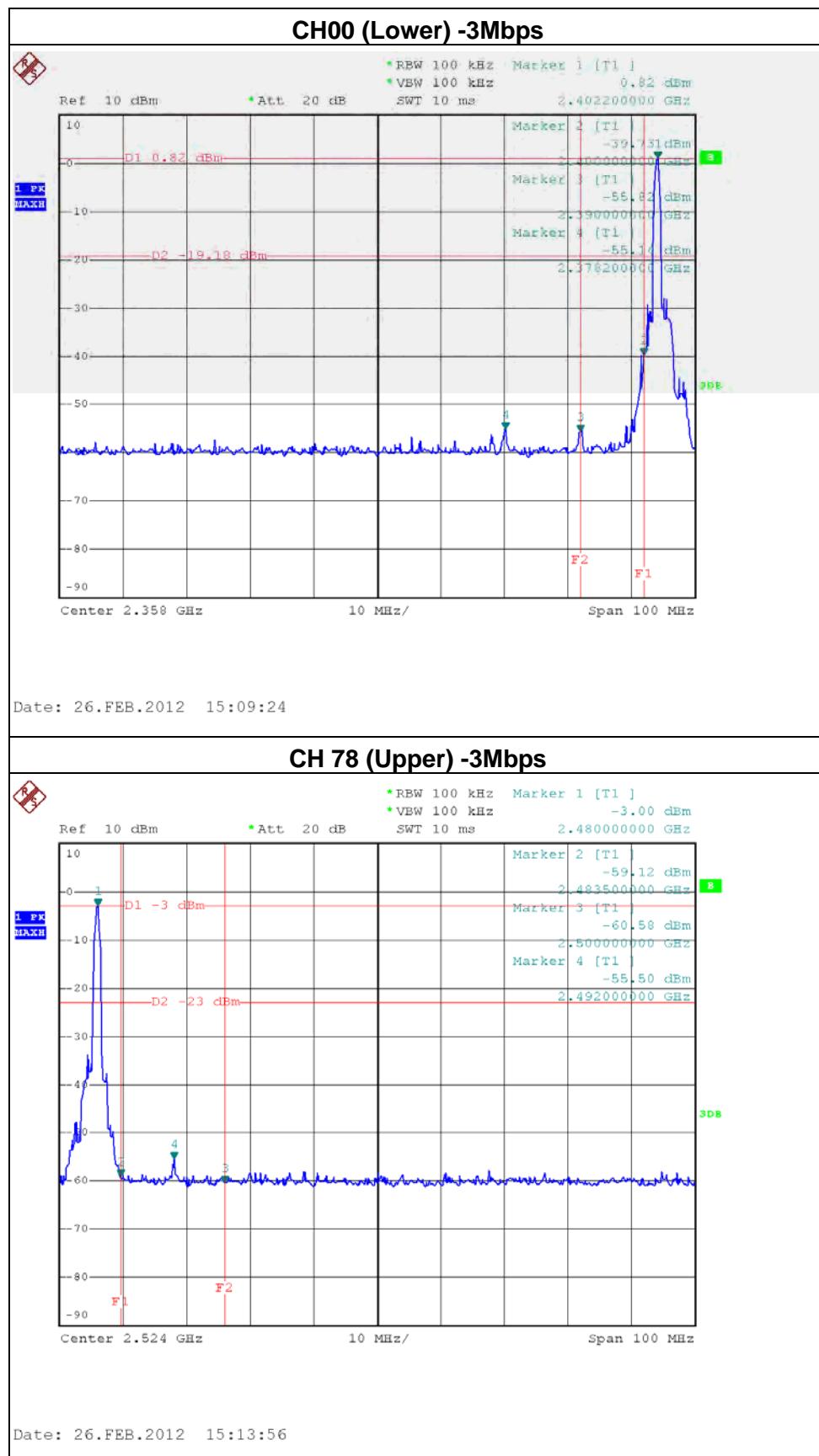


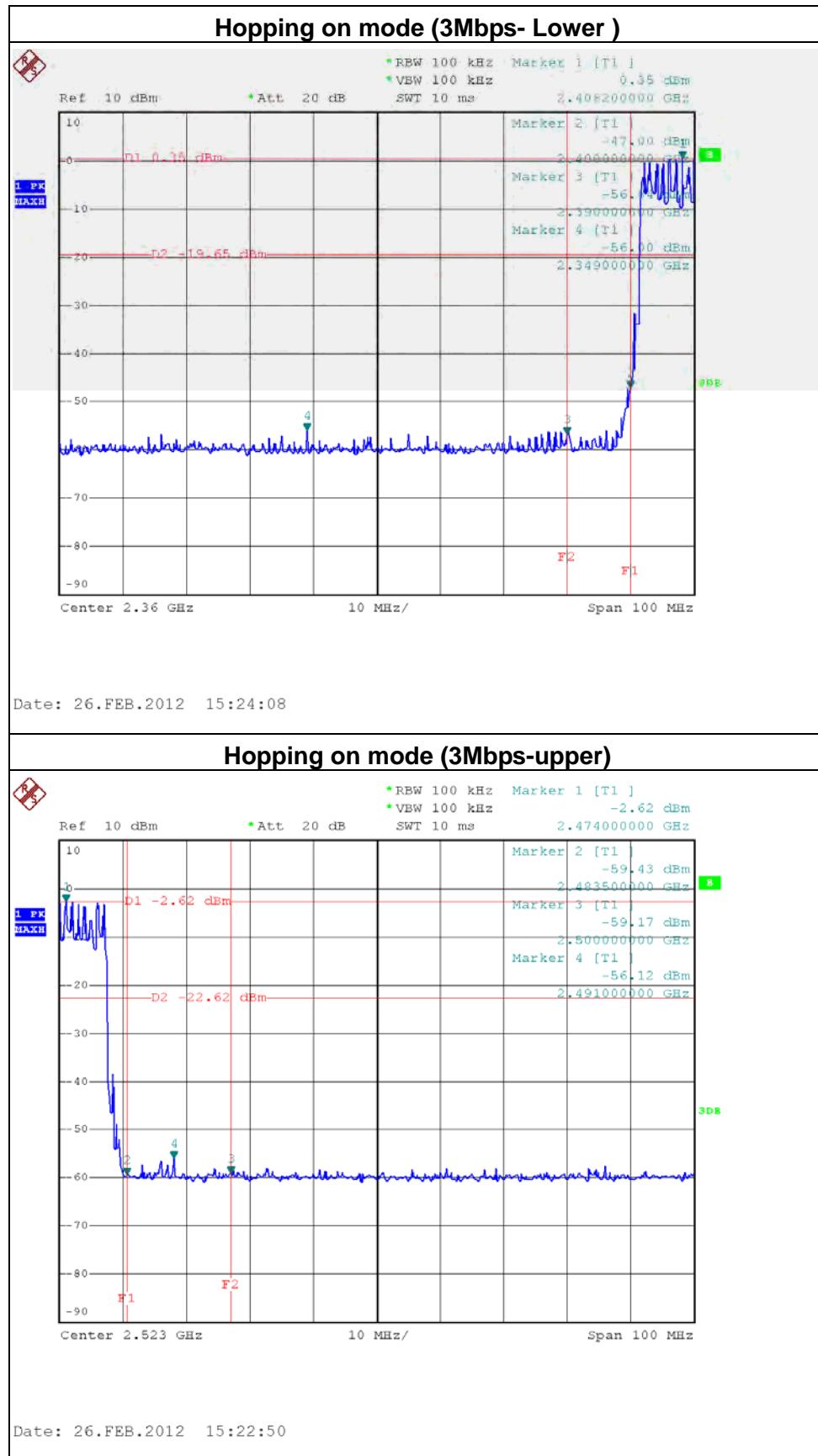


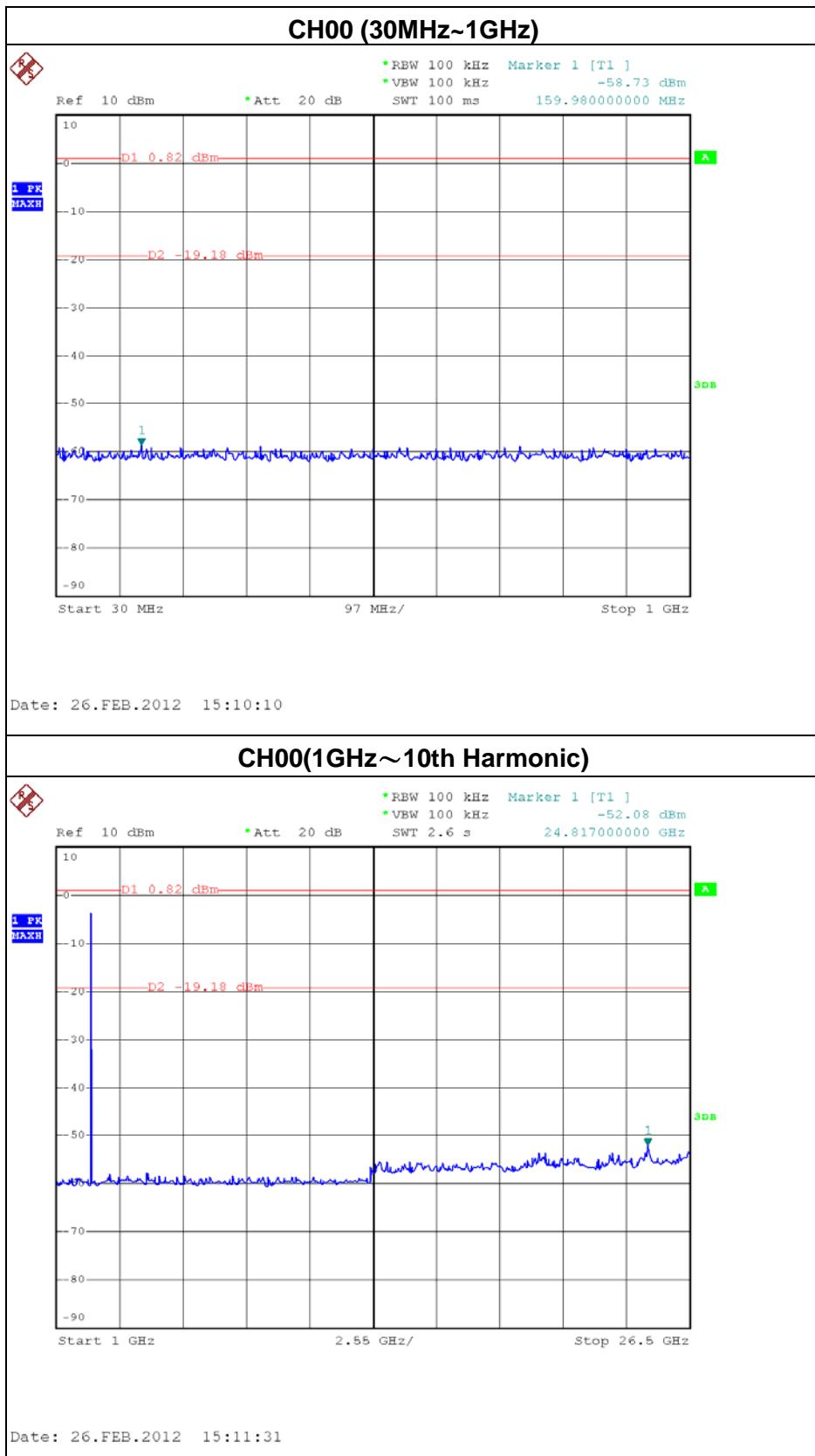


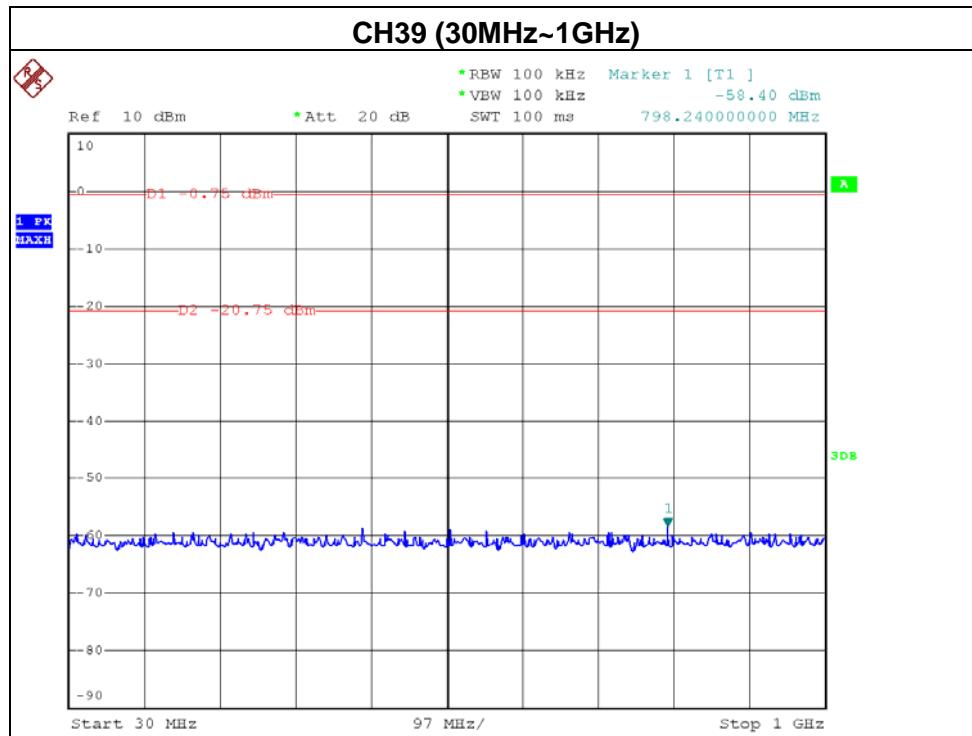
EUT :	Glowtunes Wireless 4-Speaker Tower Stereo System	Model Name :	iP76
Temperature :	23 °C	Relative Humidity :	55 %
Pressure :	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39/ CH78 -3Mbps & Hopping on mode (3Mbps)		

The max. radio frequency power in any 100kHz bandwidth within the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2400.00	-39.73	2492.00	-55.50
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

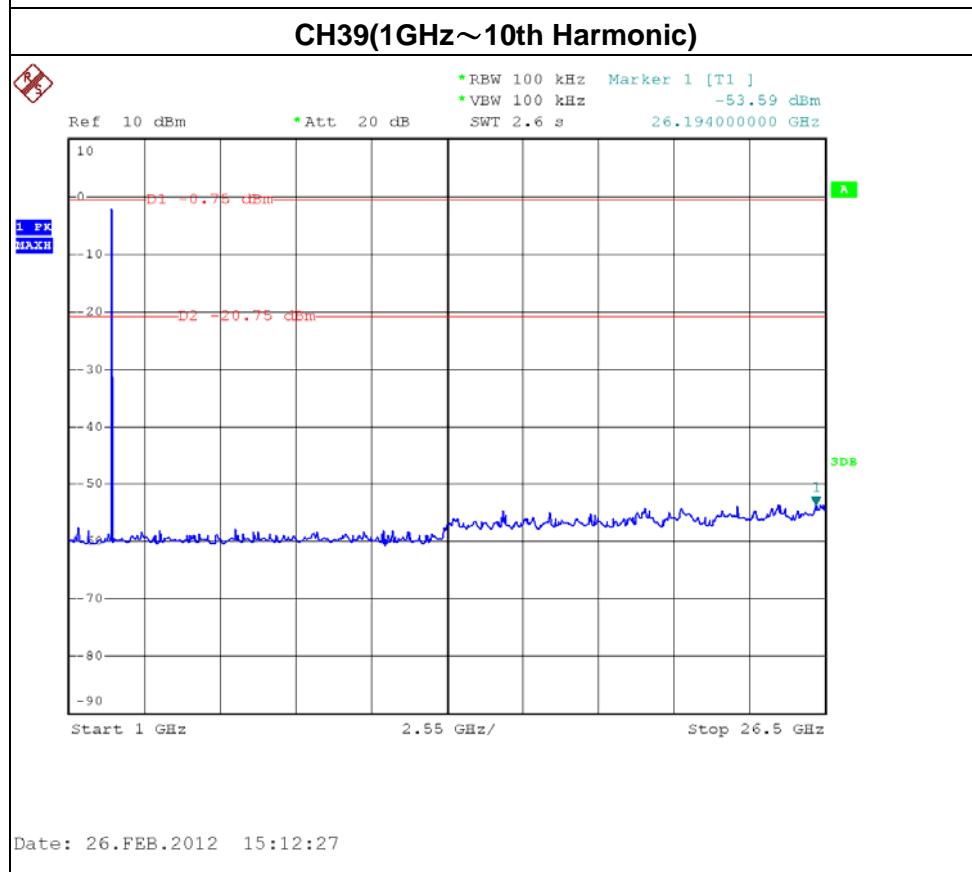




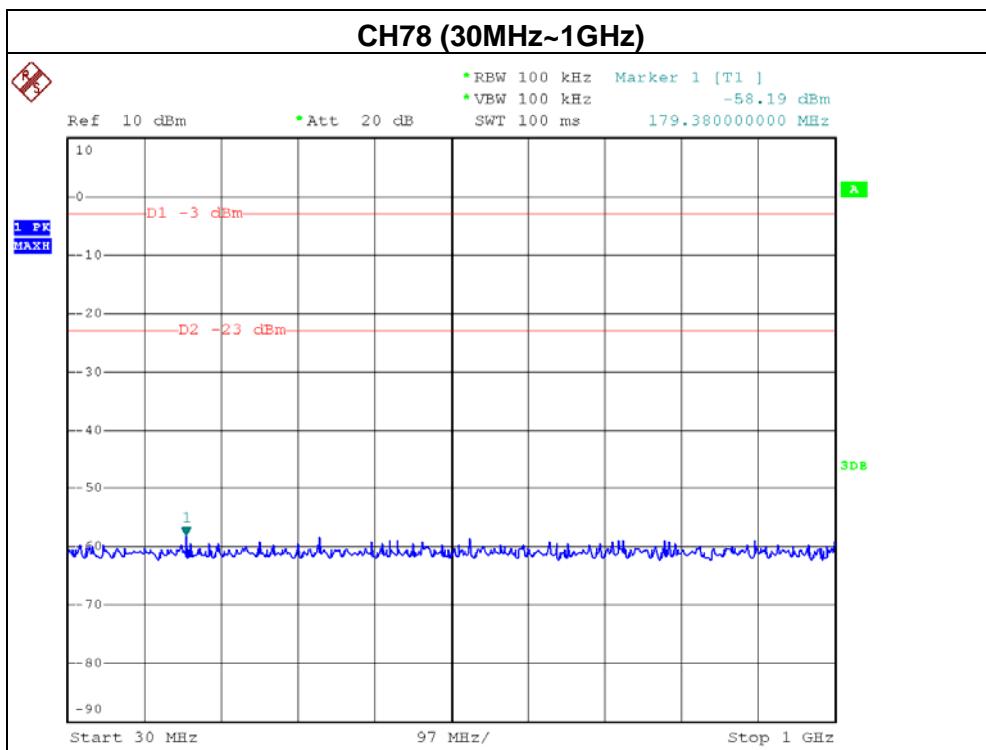




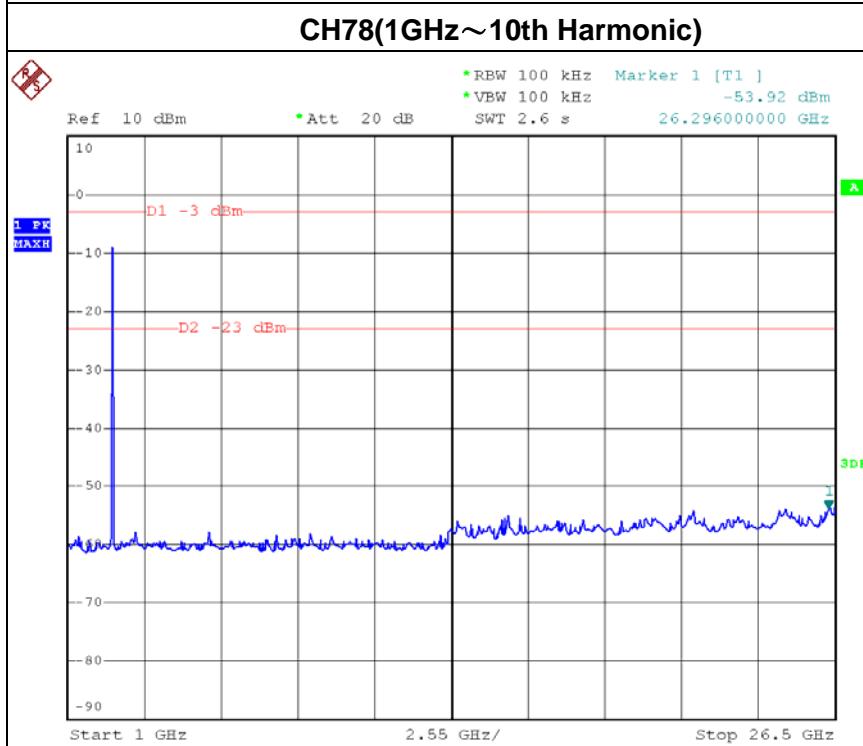
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Date: 26.FEB.2012 15:14:29



Date: 26.FEB.2012 15:14:53



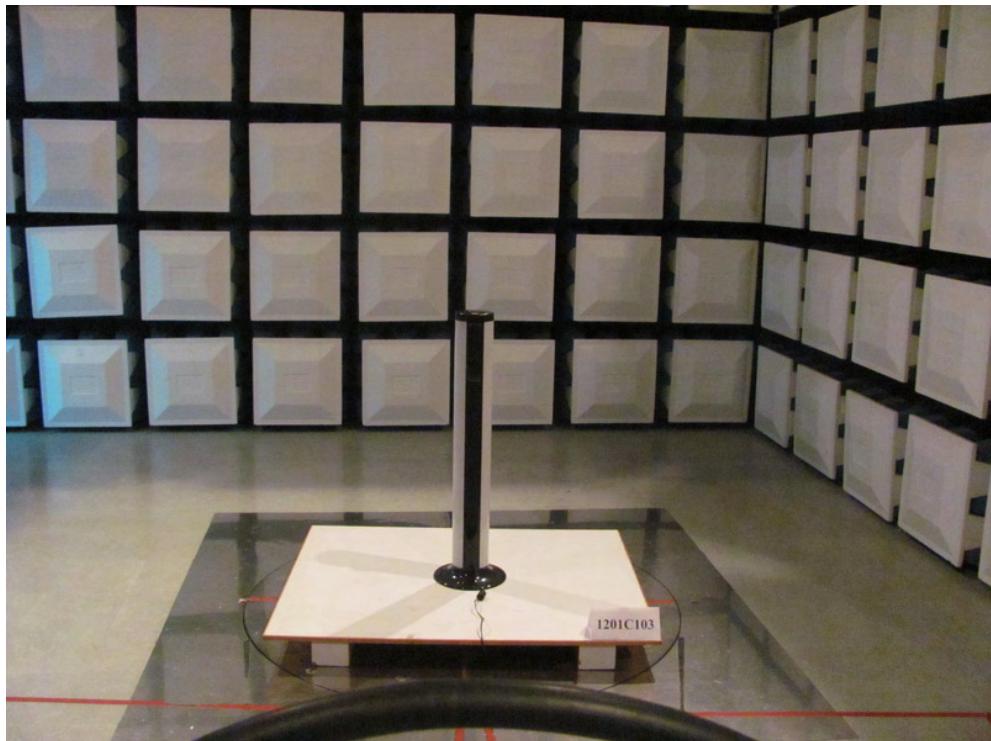
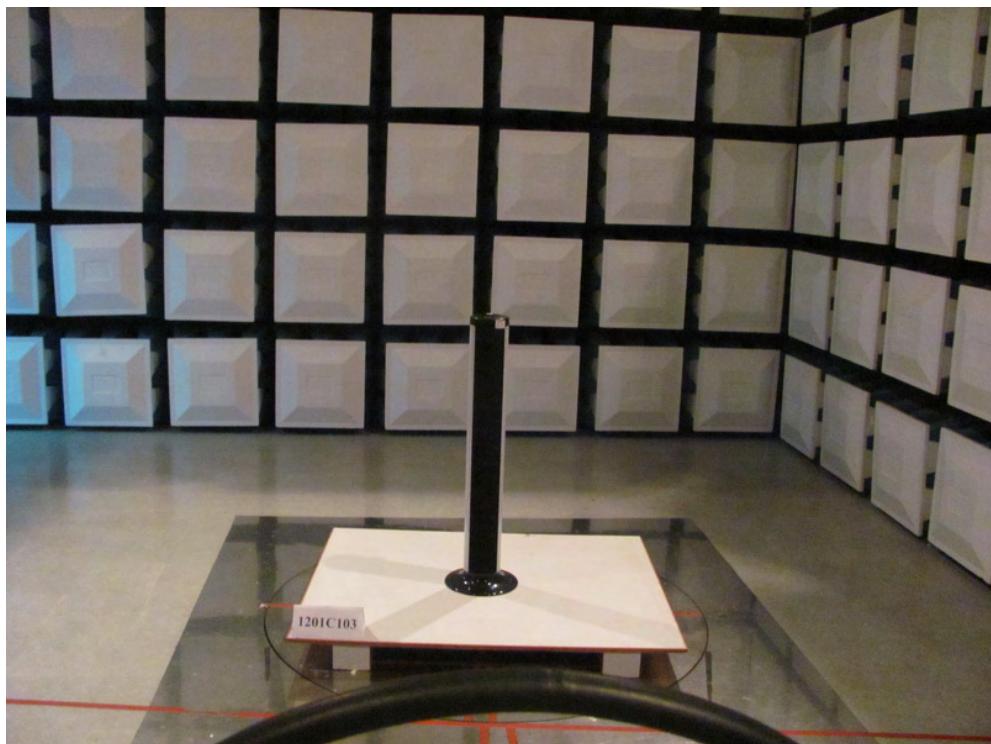
## 11. EUT TEST PHOTO

### Conducted Measurement Photos



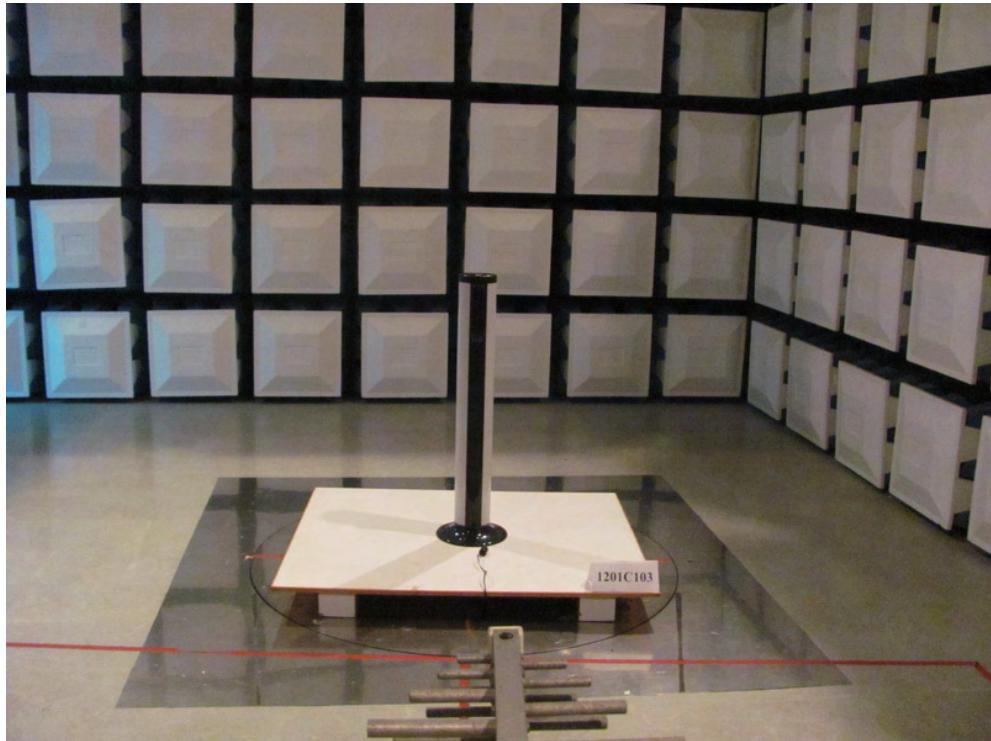
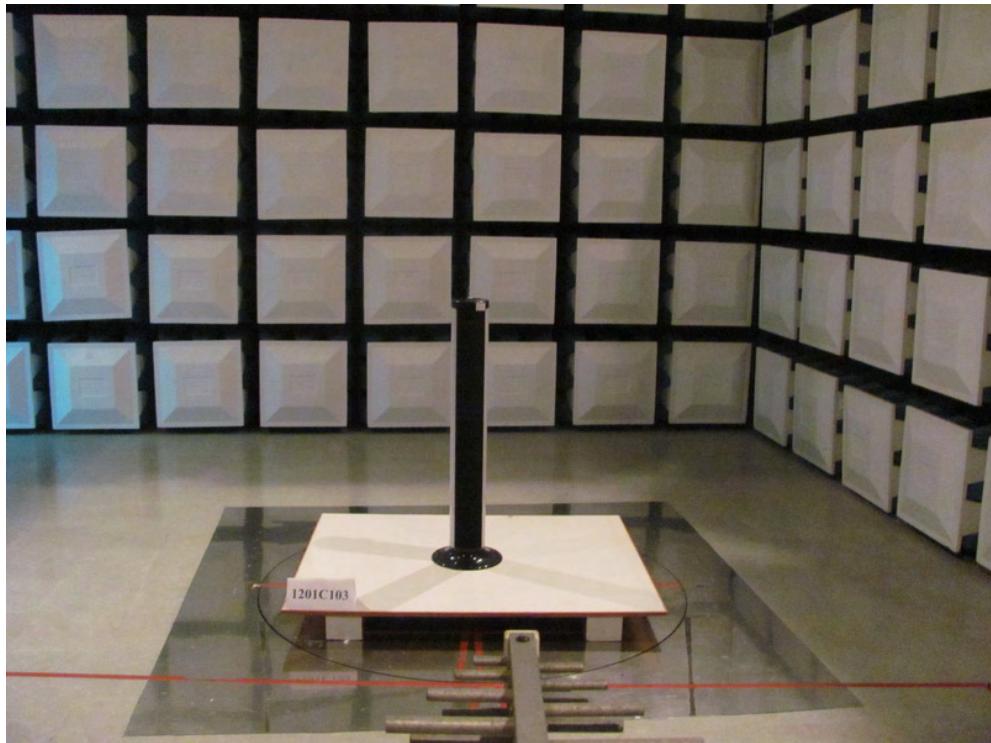


**Radiated Measurement Photos  
9K~30MHz**





**Radiated Measurement Photos**  
**30M~1000MHz**





**Radiated Measurement Photos  
Above 1000MHz**

