

FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

Sony Corporation

Wireless Speaker

SRS-XB01

FCC ID: AK8SRSXB01

Prepared for : Sony Corporation

1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

Prepared By : Audix Technology (Shenzhen) Co., Ltd.

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Report Number : ACS-F18075

Date of Test : Feb.25~Mar.12, 2018

Date of Report : Mar.27, 2018

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TEST REPORT CERTIFICATION

Applicant : Sony Corporation  
 Manufacture : Sony Corporation  
 Product : Wireless Speaker  
 FCC ID : AK8SRSXB01  
 (A) Model No. : SRS-XB01  
 (B) Power Supply : DC 5V  
 (C) Test Voltage : DC 5V From PC Input 120V/60Hz

Tested for comply with:

FCC CFR47 Part 15 Subpart C  
 Test procedure used: ANSI C63.10: 2013;  
 KDB558074 D01 v04

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Feb.25~Mar.12, 2018 Report of date: Mar.27, 2018

Prepared by : Kayli He Reviewed by : Sunny Lu  
 Kayli He / Assistant Sunny Lu / Deputy Manager



Approved & Authorized Signer : David Jin  
 David Jin / Manager

## 1. SUMMARY OF STANDARDS AND RESULTS

### 1.1. Description of Standards and Results

The EUT has been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.10 :2013	PASS
Radiated Emission Test	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10 : 2013	PASS
Conducted Spurious Emissions	FCC Part 15: 15.247(a)(1) ANSI C63.10 : 2013	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) ANSI C63.10 : 2013	N/A
6dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10 : 2013	PASS
Maximum Peak Output Power Test	FCC Part 15: 15.247(b)(1) ANSI C63.10 : 2013	PASS
Band Edge Compliance Test	FCC Part 15: 15.247(d) ANSI C63.10 : 2013	PASS
Power Spectral Density Test	FCC Part 15: 15.247(d) ANSI C63.10 : 2013	PASS

N/A is an abbreviation for Not Applicable.

## 2. GENERAL INFORMATION

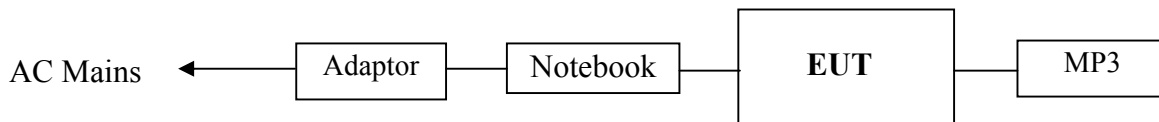
### 2.1. Description of Device (EUT)

Product	: Wireless Speaker
Model No.	: SRS-XB01
FCC ID	: AK8SRSXB01
Radio	: Bluetooth V3.0+EDR; Bluetooth V4.2
Operation Frequency	: 2402-2480MHz
Modulation Technology	: Bluetooth V3.0+EDR: GFSK, $\pi/4$ DQPSK, 8-DPSK Bluetooth V4.2:GFSK
Antenna Assembly Gain	: Integrated PCB Antenna; 1.5dBi
Applicant	: Sony Corporation 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Manufacturer	: Sony Corporation 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
USB Cable	: Shielded, Detachable, 0.3m
Date of Test	: Feb.25~Mar.12, 2018
Date of Receipt	: Feb.23, 2018
Remark	: This report only for Bluetooth V4.2.

### 2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Notebook	N/A	DELL	PP09S	N/A
		Power Cord: Unshielded, Detachable, 1.8m Power Adaptor: Manufacturer: DELL, M/N: LA65NS1-00 Cable: Unshielded, Detachable, 4.0m(Bond one ferrite core)			
2.	MP3 Player	---	Sony	BNP-1	---
		USB Cable: Shielded, Detachable, 1.0m			

### 2.3. Block Diagram of connection between EUT and simulators



**(EUT: Wireless Speaker)**

#### 2.4. Test information

A Special Test Software was used to control EUT work in Continuous TX mode (GFSK modulation), and select test channel.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)	Channel	Frequency (MHz)
Tx Mode GFSK modulation	1	Low :CH 0	2402
	1	Middle: CH19	2440
	1	High: CH39	2480

2.5. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.  
 : No. 6, Kefeng Road, Science & Technology Park,  
 Nanshan District , Shenzhen, Guangdong, China

EMC Lab. : Certificated by Industry Canada  
 : Registration Number: IC 5183A-1  
 Valid Date: May.07, 2020

: Certificated by DAkkS, Germany  
 : Registration No: D-PL-12151-01-00  
 Valid Date: Dec.07, 2021

: Accredited by NVLAP, USA  
 : NVLAP Code: 200372-0  
 Valid Date: Mar.31, 2018

: Certificated by FCC USA.  
 : Designation No.: CN5022  
 Valid Date: Mar.31, 2018

2.6. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.6dB(150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	2.8dB(30~200MHz, Polarization: H)
	2.8dB(30~200MHz, Polarization: V)
	3.0dB(200M~1GHz, Polarization: H)
	3.0dB(200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber(1GHz-18GHz)	5.6dB(1~6GHz, Distance: 3m)
	5.8dB(6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.7dB(30MHz~1000MHz)
	3.3dB(1~26.5GHz)
Uncertainty for Conduction Spurious emission test	2.0dB
Uncertainty for Output power test	0.8dB
Uncertainty for Bandwidth test	83kHz
Uncertainty for DC power test	0.1%
Uncertainty for test site temperature and humidity	0.6°C
	3%



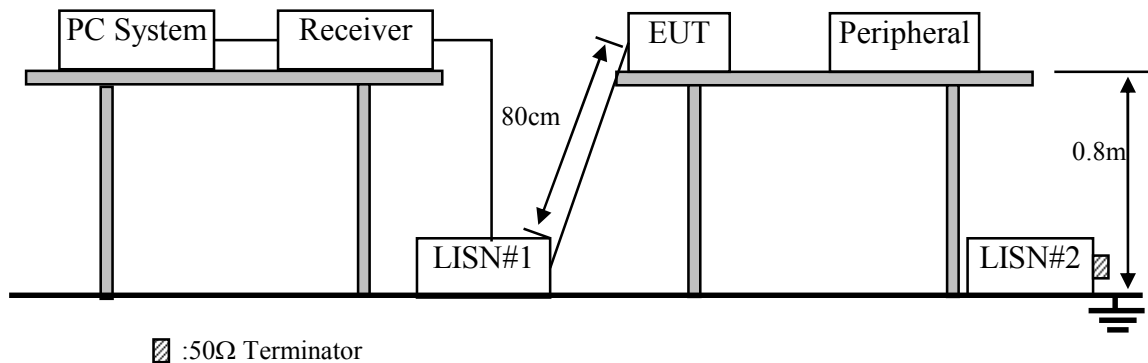
### 3. POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.17,17	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCI	100842	Apr.22,17	1 Year
3.	L.I.S.N	Rohde & Schwarz	ENV216	102160	Mar.06.17	1 Year
4.	L.I.S.N.#2	Kyoritsu	K NW-403D	8-1750-2	Apr.22,17	1 Year
5.	I.S.N.	TESEQ	S751	24559	Mar.06.17	1.year
6.	Terminator	Hubersuhner	50Ω	No.1	Apr.23,17	1 Year
7.	Terminator	Hubersuhner	50Ω	No.2	Apr.23,17	1 Year
8.	RF Cable	MIYAZAKI	3D-2W	No.1	Apr.23,17	1Year
9.	Coaxial Switch	Anritsu	MP59B	6200766906	Apr.22,17	1 Year
10.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

#### 3.2. Block Diagram of Test Setup



#### 3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

### 3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

#### 3.4.1. Wireless Speaker (EUT)

Model Number : SRS-XB01

Serial Number : N/A

#### 3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

### 3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipments.

3.5.3. PC run test software to control EUT work in BT4.2 Tx mode.

### 3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

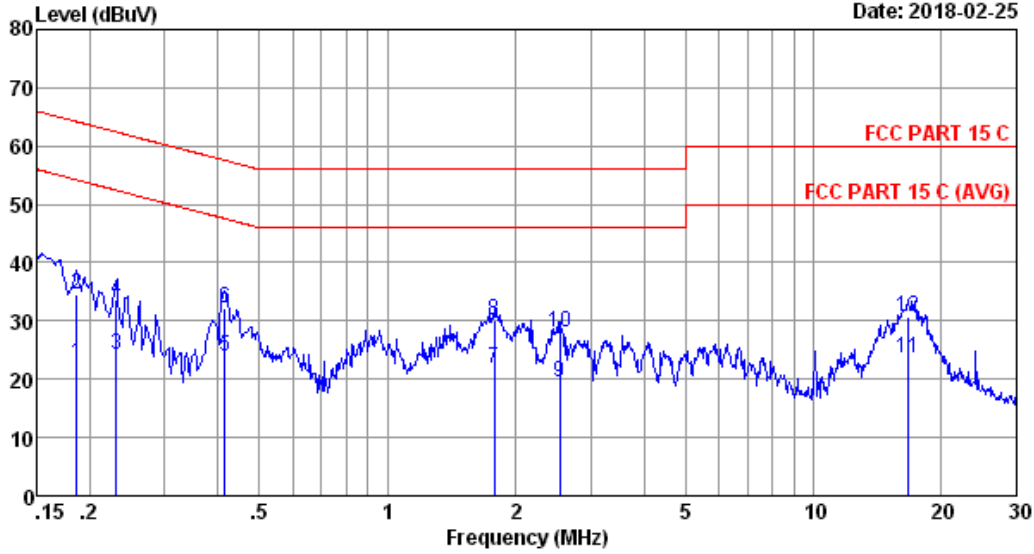
The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

### 3.7. Power Line Conducted Emission Test Results

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

Data: 4 File: E:\1#CE\2018 Report Data\SONY\ACS18Q0227-RF.EM6 (8) Date: 2018-02-25

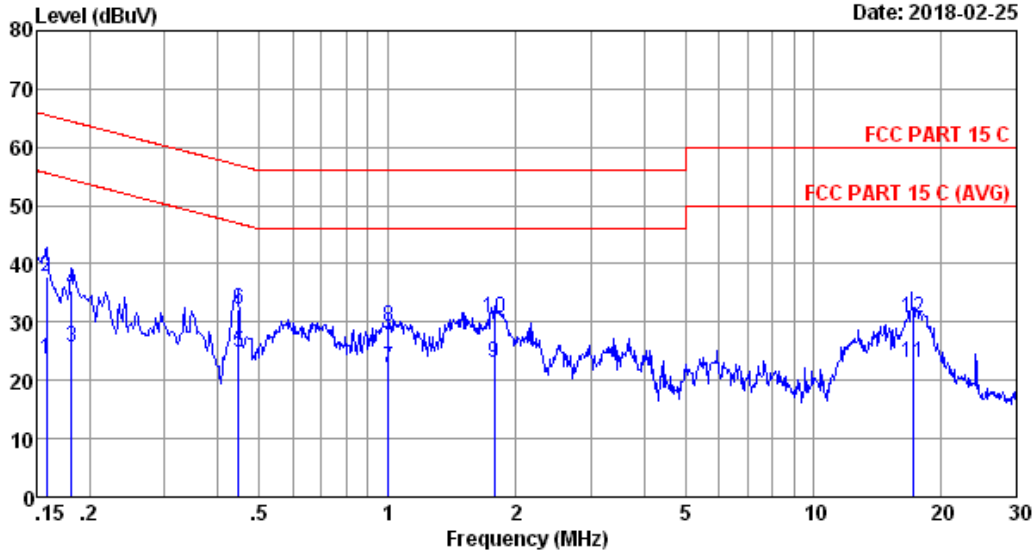


Site no :1# CE Data No :4  
 Dis./Lisn :2017 LISN ENV216-L LISN phase:  
 Limit :FCC PART 15 C  
 Env./Ins. :23.4\*C/52% Engineer :Json  
 EUT :Wireless Speaker M/N:SRS-XB01  
 Power Rating :DC 5V From PC Input AC 120V/60Hz  
 Test Mode :BT 4.0 Tx Mode

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.186	9.51	0.02	13.25	22.78	54.20	31.42	Average
2	0.186	9.51	0.02	25.08	34.61	64.20	29.59	QP
3	0.230	9.35	0.02	14.70	24.07	52.44	28.37	Average
4	0.230	9.35	0.02	24.21	33.58	62.44	28.86	QP
5	0.415	9.50	0.03	14.48	24.01	47.55	23.54	Average
6	0.415	9.50	0.03	22.75	32.28	57.55	25.27	QP
7	1.781	9.49	0.07	12.35	21.91	46.00	24.09	Average
8	1.781	9.49	0.07	20.47	30.03	56.00	25.97	QP
9	2.540	9.49	0.07	9.82	19.38	46.00	26.62	Average
10	2.540	9.49	0.07	18.38	27.94	56.00	28.06	QP
11	16.750	9.64	0.12	13.89	23.65	50.00	26.35	Average
12	16.750	9.64	0.12	21.01	30.77	60.00	29.23	QP

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

Data: 3 File: E:\1#CE\2018 Report Data\SI\SONY\ACS18Q0227-RF.EM6 (8) Date: 2018-02-25



Site no :1# CE Data No :3  
 Dis./Lisn :2017 LISN ENV216-N LISN phase:  
 Limit :FCC PART 15 C  
 Env./Ins. :23.4\*C/52% Engineer :Json  
 EUT :Wireless Speaker M/N:SRS-XB01  
 Power Rating :DC 5V From PC Input AC 120V/60Hz  
 Test Mode :BT 4.0 Tx Mode

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.158	9.48	0.02	14.14	23.64	55.56	31.92	Average
2	0.158	9.48	0.02	28.18	37.68	65.56	27.88	QP
3	0.182	9.47	0.02	16.15	25.64	54.42	28.78	Average
4	0.182	9.47	0.02	25.86	35.35	64.42	29.07	QP
5	0.447	9.37	0.03	15.48	24.88	46.93	22.05	Average
6	0.447	9.37	0.03	22.92	32.32	56.93	24.61	QP
7	1.005	9.35	0.05	12.68	22.08	46.00	23.92	Average
8	1.005	9.35	0.05	19.71	29.11	56.00	26.89	QP
9	1.781	9.36	0.07	13.47	22.90	46.00	23.10	Average
10	1.781	9.36	0.07	21.12	30.55	56.00	25.45	QP
11	17.110	9.58	0.12	13.40	23.10	50.00	26.90	Average
12	17.110	9.58	0.12	21.10	30.80	60.00	29.20	QP

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

## 4. RADIATED EMISSION MEASUREMENT

### 4.1. Test Equipment

Frequency range: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Mar.28,17	1 Year
2.	Spectrum Analyzer	Agilent	E7405A	MY45116588	Dec.19,17	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR7	101547	Apr.22,17	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr.22,17	1 Year
5.	Bi-log Antenna	TESEQ	CBL6112D	35375	Aug.29,17	1 Year
6.	Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	493	Jun.27.17	1 Year
7.	RF Cable	MIYAZAKI	CFD400NL-LW	No.3	Sep.02.17	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.22,17	1 Year
9.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

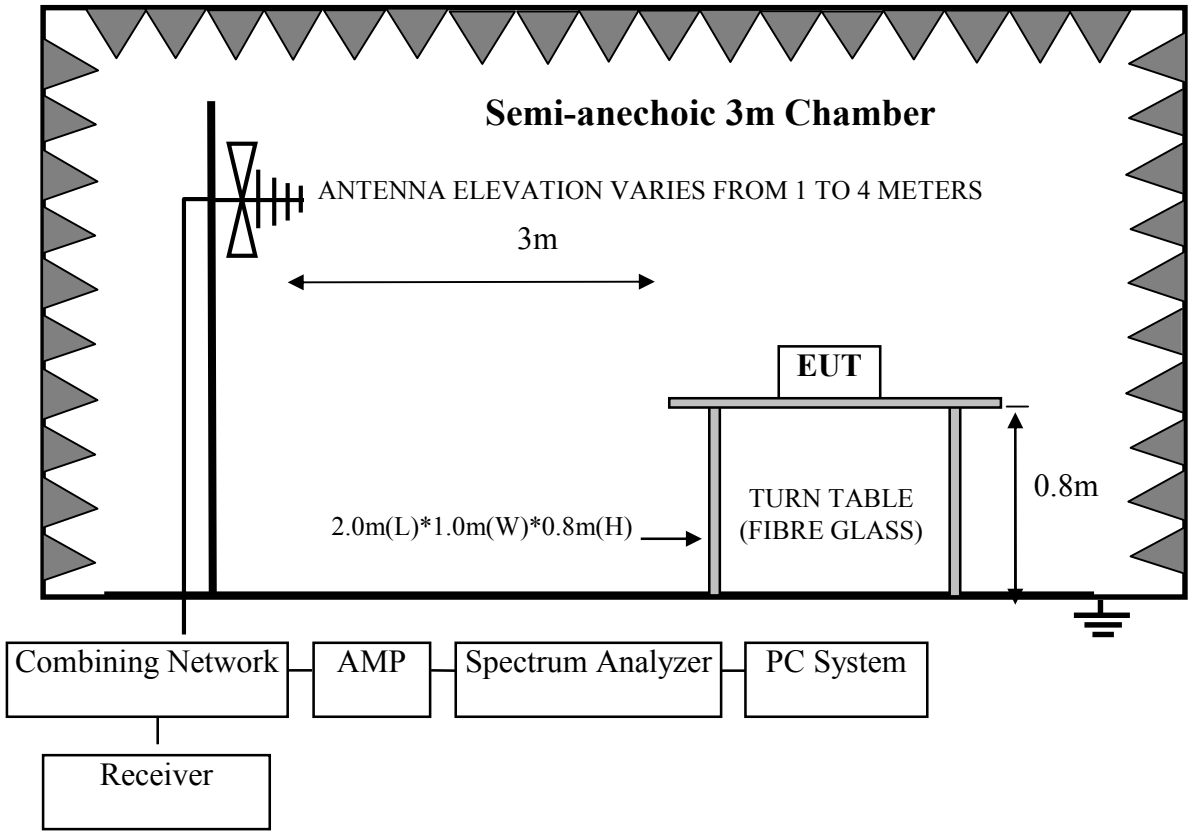
Note: N/A means Not applicable.

Frequency range: above 1000MHz

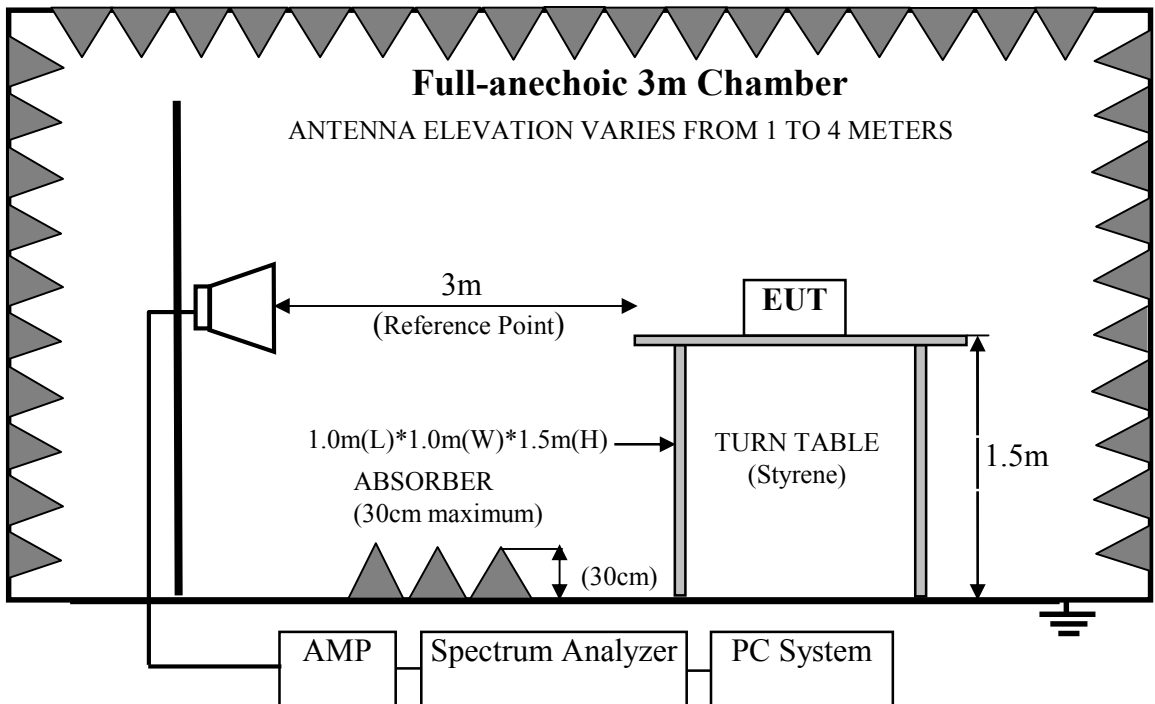
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Mar.28,17	1 Year
2.	Spectrum Analyzer	Agilent	N9010A	MY52220804	Oct.14,17	1 Year
3.	Amplifier	Agilent	83017A	MY53270084	May.08,17	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX104	274094/4	Apr.22,17	1 Year
5.	Horn Antenna	ETS	MCTD 1209	DRH15F03007	May.15,17	1 Year
6.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

Note: N/A means Not applicable.

4.2. Block Diagram of Test Setup  
For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.3. Radiated Emission Limit Standard:

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

- Remark :
- (1) Emission level dBμV = 20 log Emission level μV/m
  - (2) The smaller limit shall apply at the cross point between two frequency bands.
  - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
  - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. Wireless Speaker (EUT)

Model Number : SRS-XB01  
Serial Number : N/A

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 4.2.
- 4.5.2. Turn on the power of all equipments.
- 4.5.3. Let EUT work in BT4.2 Tx mode.

4.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)\*2.4m(W)\*0.3m(H) on the ground . The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it.EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horn antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2013 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

The bandwidth of the EMI test receiver (R&S ESR7) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz.

This device is pulse Modulated, a duty cycle factor was used to calculated average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

#### 4.7. Radiated Emission Test Results

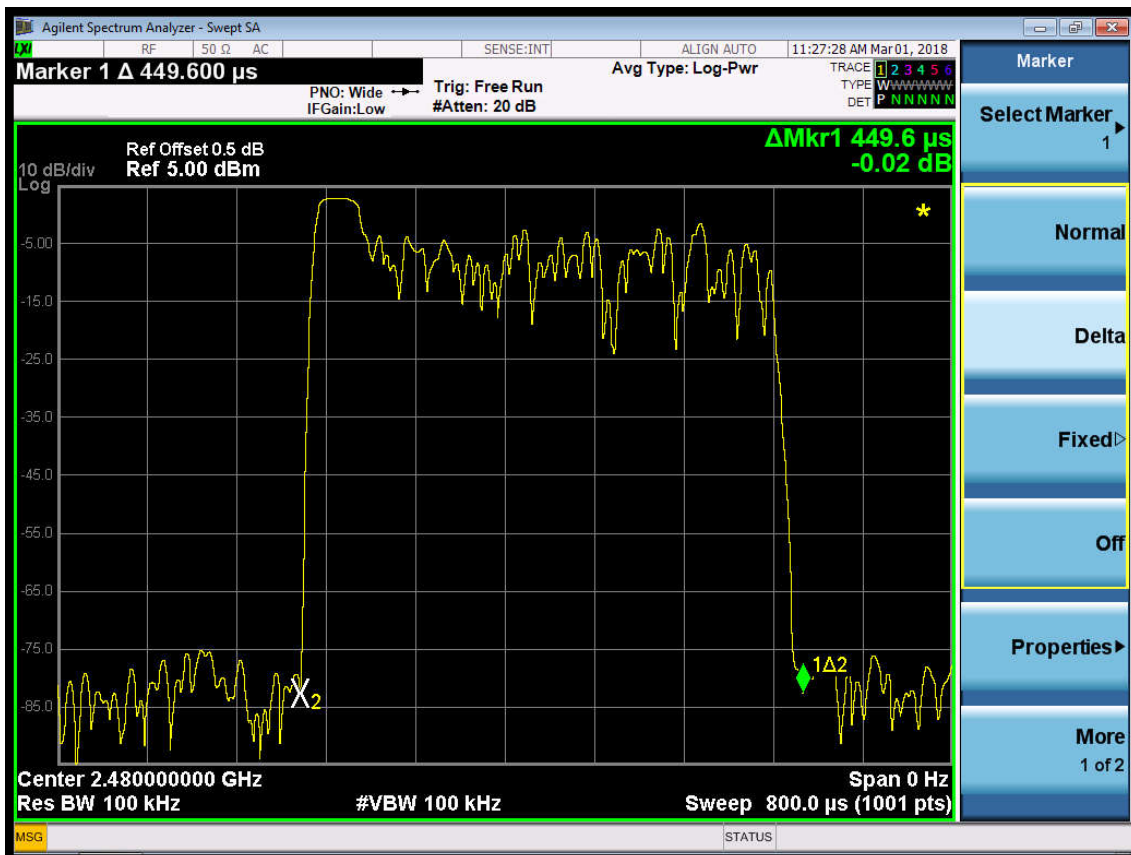
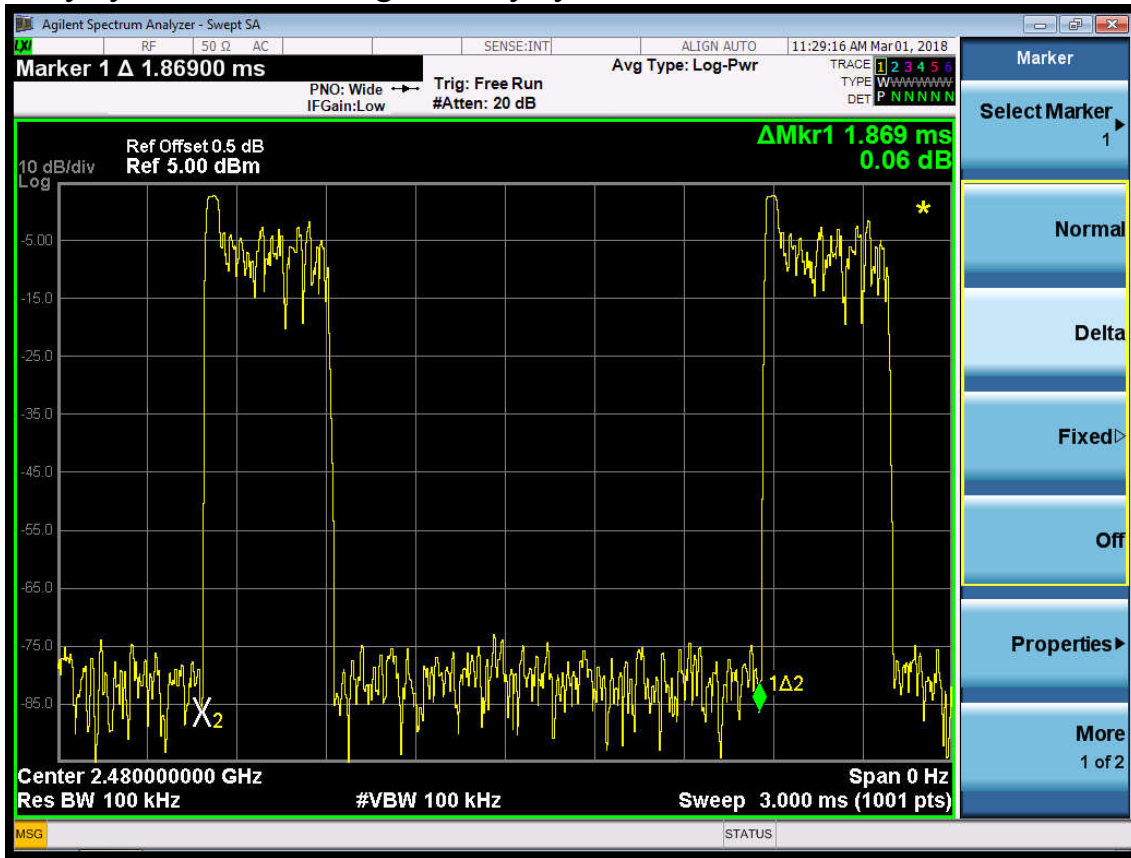
**PASS.**

All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Note: The duty cycle factor for calculate average level is -12.38dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit.



$$\text{Duty cycle factor} = 20\log (1/\text{duty cycle}) = -12.38\text{dB}$$

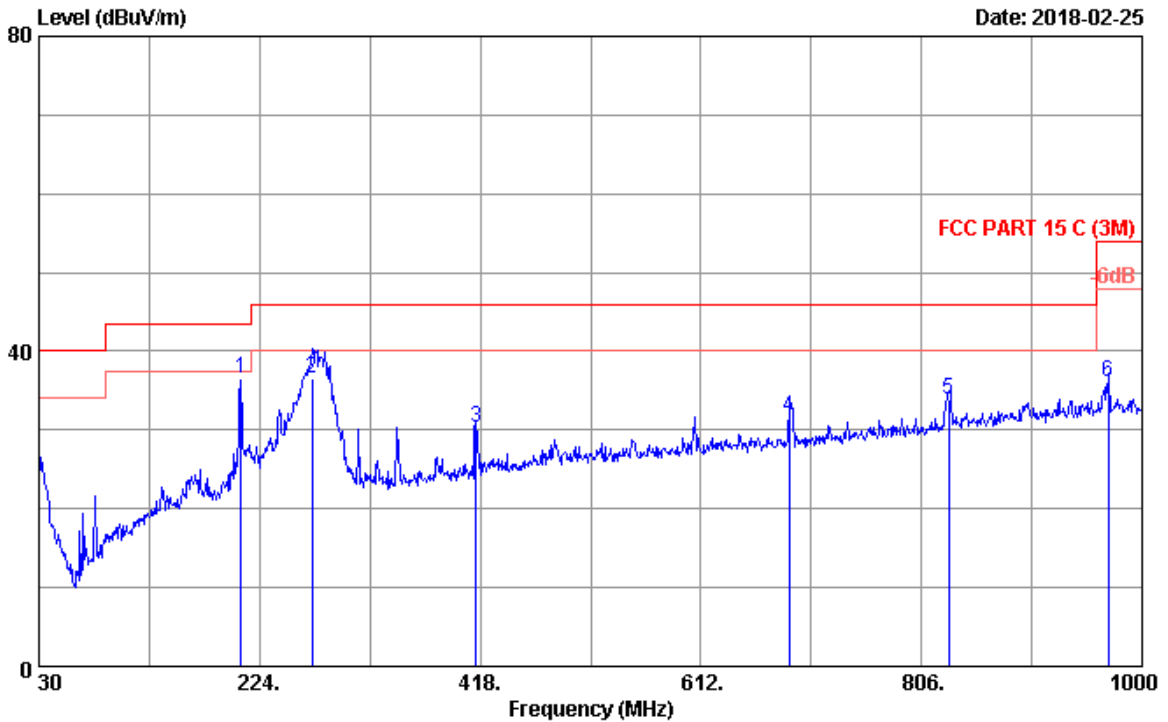


Frequency: 30MHz~1GHz

Data: 22

File: E:\2018 Report Data\S\Sony\ACS18Q0227-rf.EM6 (27)

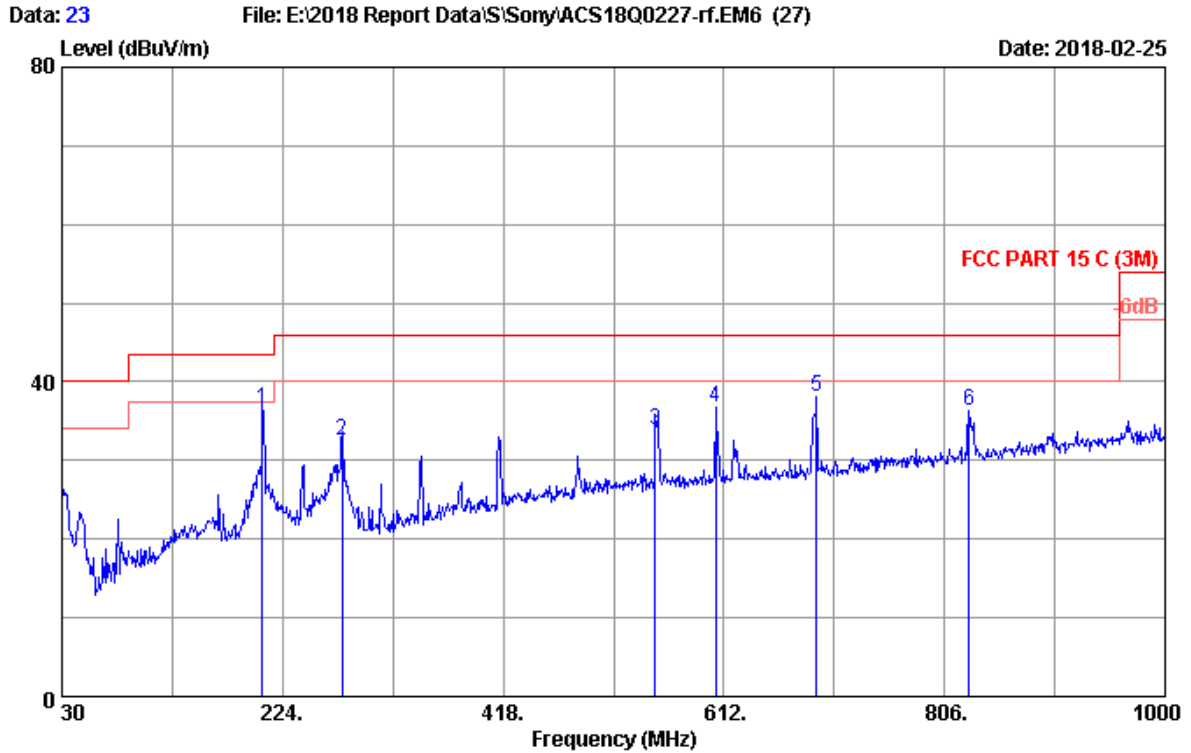
Date: 2018-02-25



Site : 3m Chamber Data no. : 22  
 Dis. / Ant. : 3m 2017 CBL6112D 35375 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 22.6°C/52% Engineer : Lynn  
 EUT : Wireless Speaker M/N:SRS-XB01  
 Power rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : BT 4.0 Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	207.720	16.96	1.69	18.00	36.65	43.50	6.85	QP
2	270.560	19.84	2.07	14.53	36.44	46.00	9.56	QP
3	414.120	23.02	2.93	4.34	30.29	46.00	15.71	QP
4	689.600	25.93	4.08	1.54	31.55	46.00	14.45	QP
5	830.250	27.37	4.69	1.91	33.97	46.00	12.03	QP
6	969.930	28.56	5.38	2.22	36.16	54.00	17.84	QP

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



Site : 3m Chamber Data no. : 23  
 Dis. / Ant. : 3m 2017 CBL6112D 35375 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 22.6°C/52% Engineer : Lynn  
 EUT : Wireless Speaker M/N:SRS-XB01  
 Power rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : BT 4.0 Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	206.540	16.97	1.68	17.91	36.56	43.50	6.94	QP
2	276.380	19.76	2.11	10.69	32.56	46.00	13.44	QP
3	551.860	24.81	3.44	5.65	33.90	46.00	12.10	QP
4	605.210	25.33	3.70	7.80	36.83	46.00	9.17	QP
5	693.480	25.95	4.10	7.96	38.01	46.00	7.99	QP
6	827.340	27.34	4.67	4.36	36.37	46.00	9.63	QP

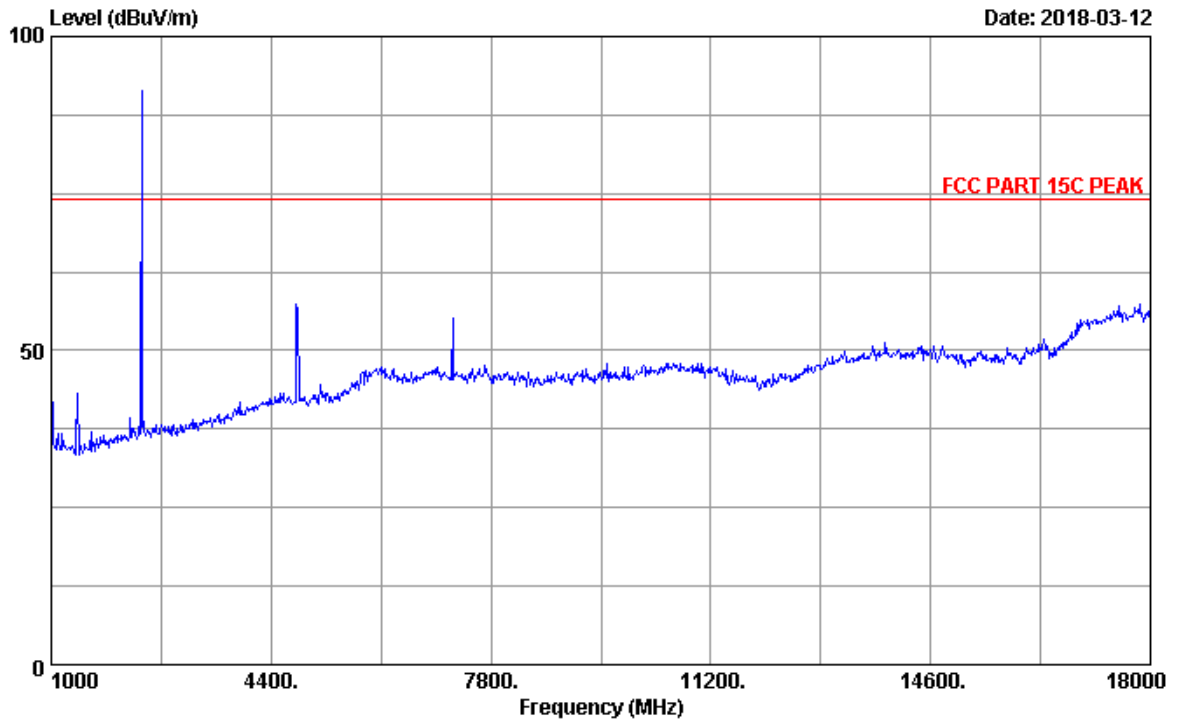
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

### Frequency:1GHz~18GHz

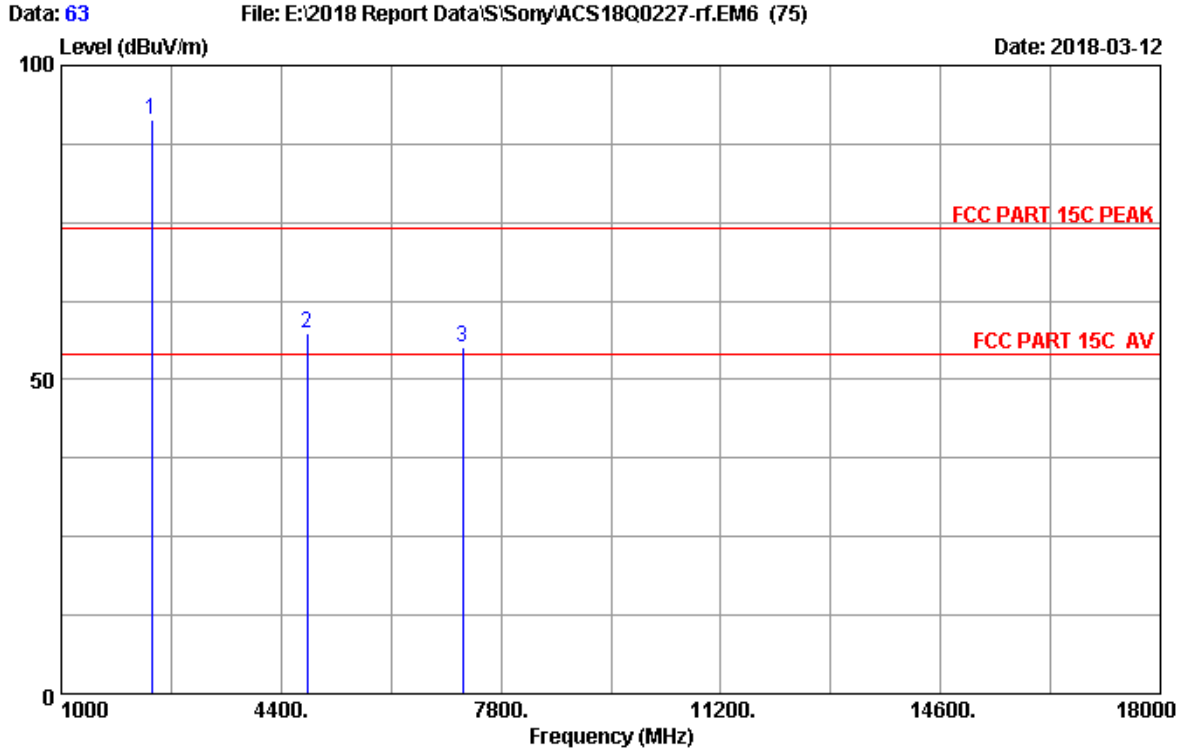
Data: 62

File: E:\2018 Report Data\S\Sony\ACS18Q0227-rf.EM6 (75)

Date: 2018-03-12



Site no. : 3m Chamber Data no. : 62  
Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : HORIZONTAL  
Limit : FCC P&RT 15C PEAK  
Env. / Ins. : 22.6°C/52% Engineer : Lynn  
EUT : Wireless Speaker M/N:SRS-XB01  
Power rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : BT4.0 GFSK 2402MHz Tx Mode

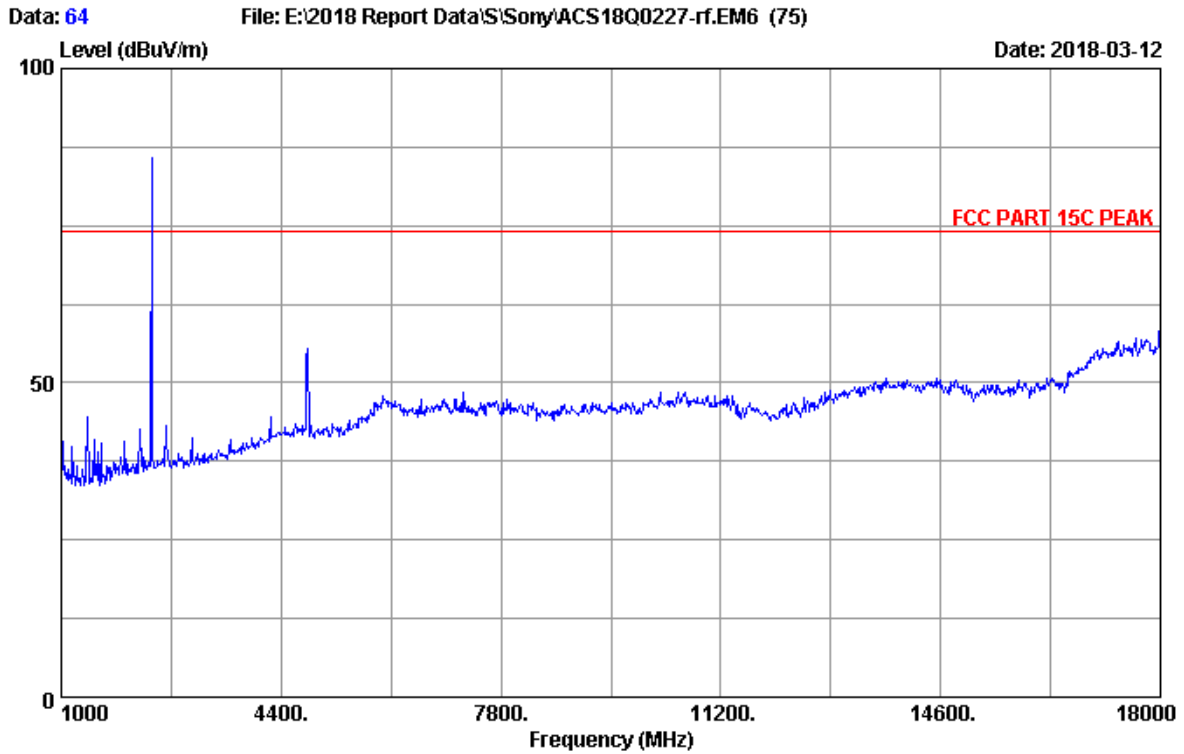


Site no. : 3m Chamber Data no. : 63  
 Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 22.6°C/52% Engineer : Lynn  
 EUT : Wireless Speaker M/N:SRS-XB01  
 Power rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : BT4.0 GFSK 2402MHz Tx Mode

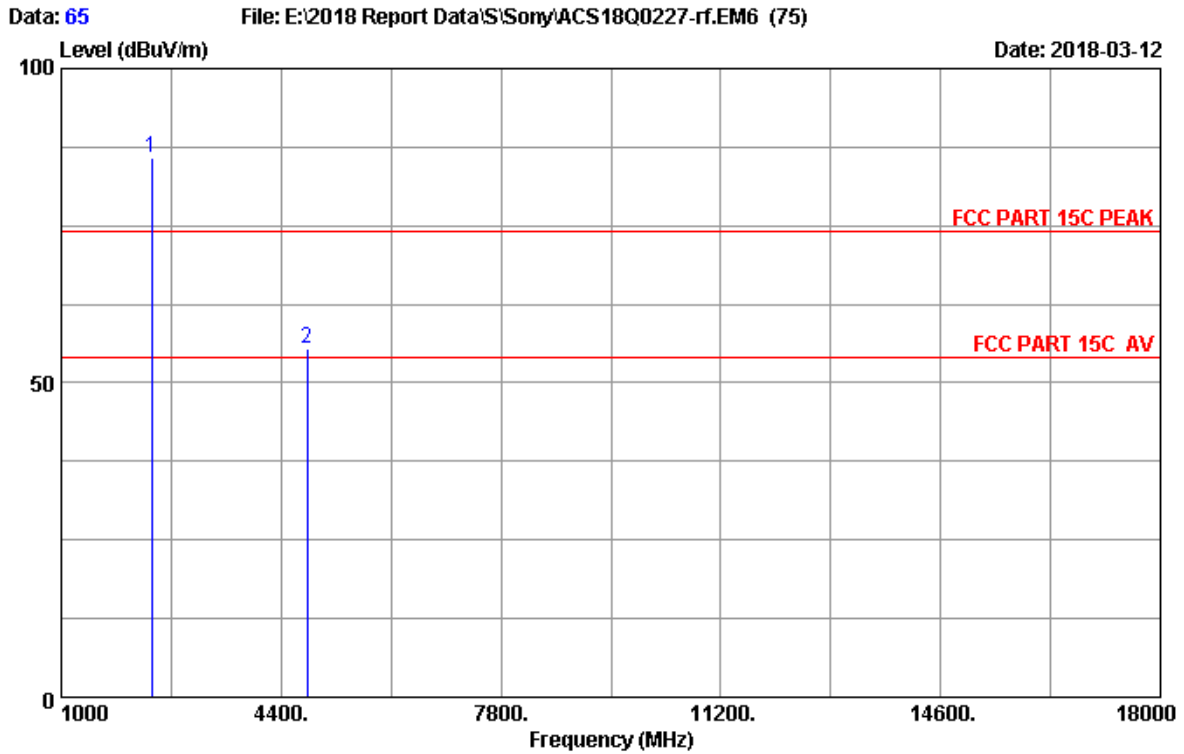
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.69	2.77	32.56	93.59	91.49	74.00	-17.49	Peak
2	4804.00	32.25	4.03	30.79	51.91	57.40	74.00	16.60	Peak
3	7206.00	35.84	5.11	31.80	45.94	55.09	74.00	18.91	Peak

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

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuv/m)	Conclusion
4804.00	57.40	-12.38	45.020	54	Pass
7206.00	55.09	-12.38	42.710	54	Pass



Site no. : 3m Chamber Data no. : 64  
Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 22.6°C/52% Engineer : Lynn  
EUT : Wireless Speaker M/N:SRS-XB01  
Power rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : BT4.0 GFSK 2402MHz Tx Mode

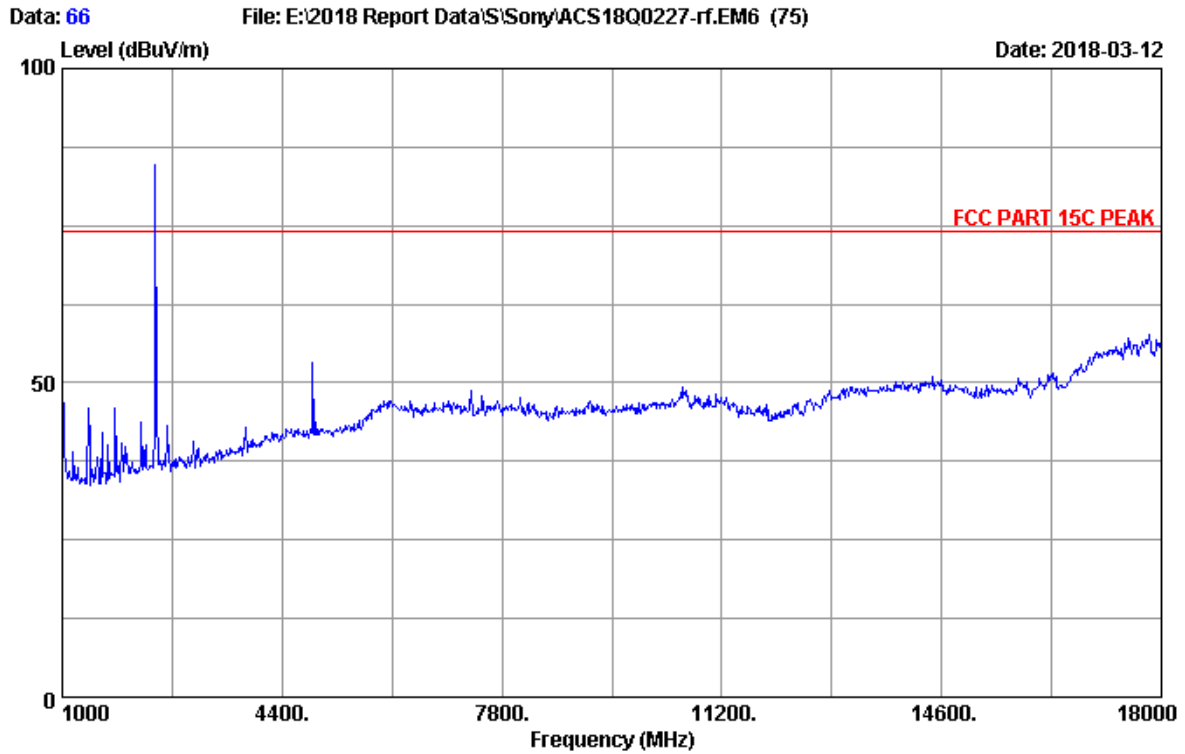


Site no. : 3m Chamber Data no. : 65  
 Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 22.6°C/52% Engineer : Lynn  
 EUT : Wireless Speaker M/N:SRS-XB01  
 Power rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : BT4.2 GFSK 2402MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.69	2.77	32.56	87.82	85.72	74.00	-11.72	Peak
2	4804.00	32.25	4.03	30.79	50.06	55.55	74.00	18.45	Peak

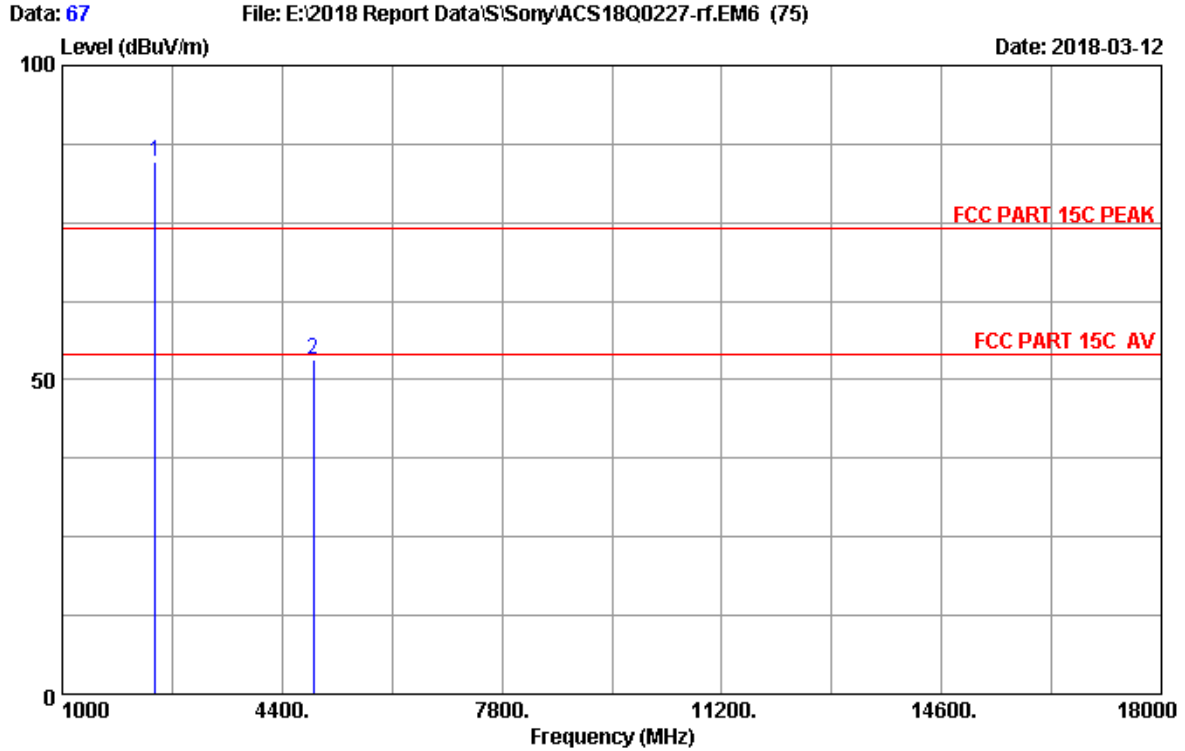
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.  
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
4804.00	55.55	-12.38	43.170	54	Pass



Site no. : 3m Chamber Data no. : 66  
Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 22.6°C/52% Engineer : Lynn  
EUT : Wireless Speaker M/N:SRS-XB01  
Power rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : BT4.0 GFSK 2440MHz Tx Mode

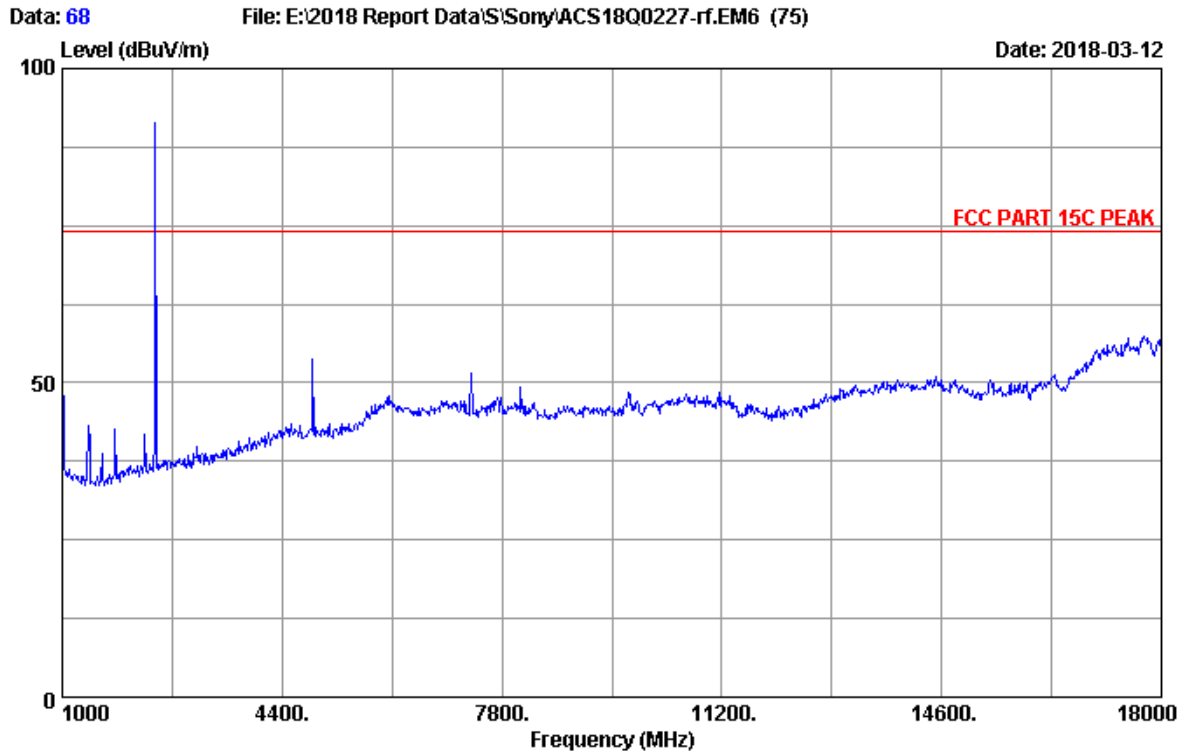




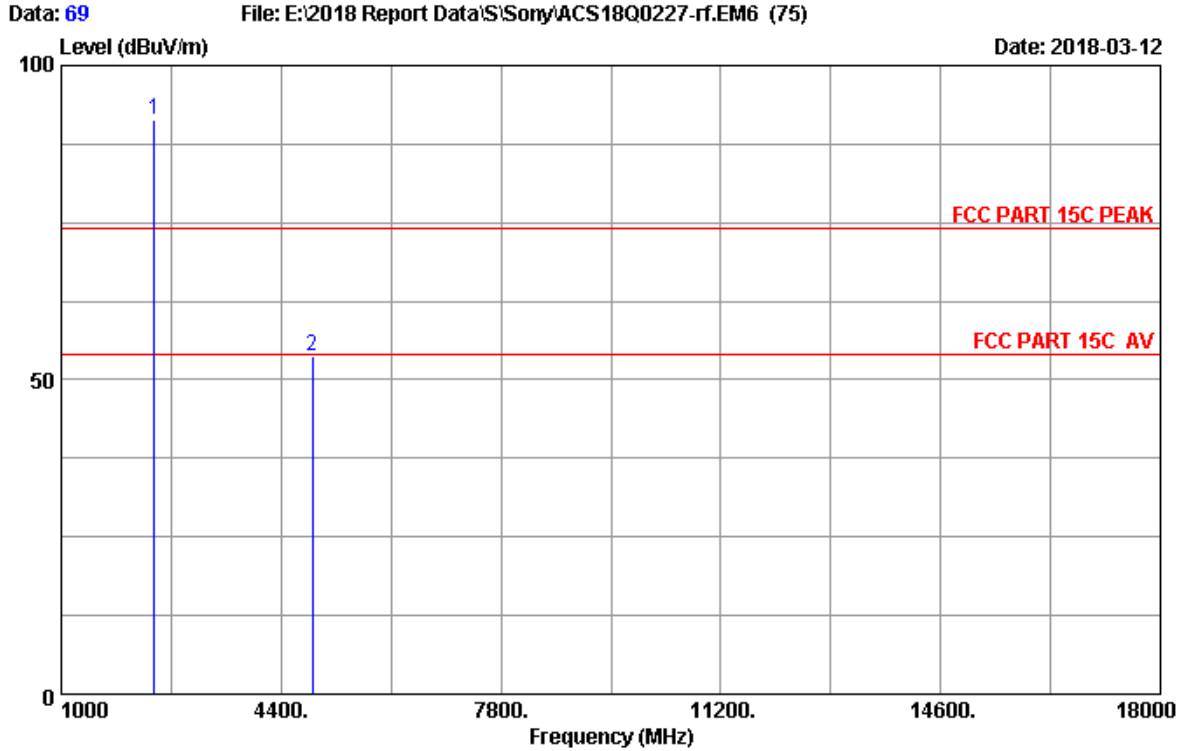
Site no. : 3m Chamber Data no. : 67  
 Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 22.6°C/52% Engineer : Lynn  
 EUT : Wireless Speaker M/N:SRS-XB01  
 Power rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : BT4.0 GFSK 2440MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.00	27.80	2.79	32.51	86.50	84.58	74.00	-10.58	Peak
2	4880.00	32.20	4.06	30.76	47.72	53.22	74.00	20.78	Peak

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



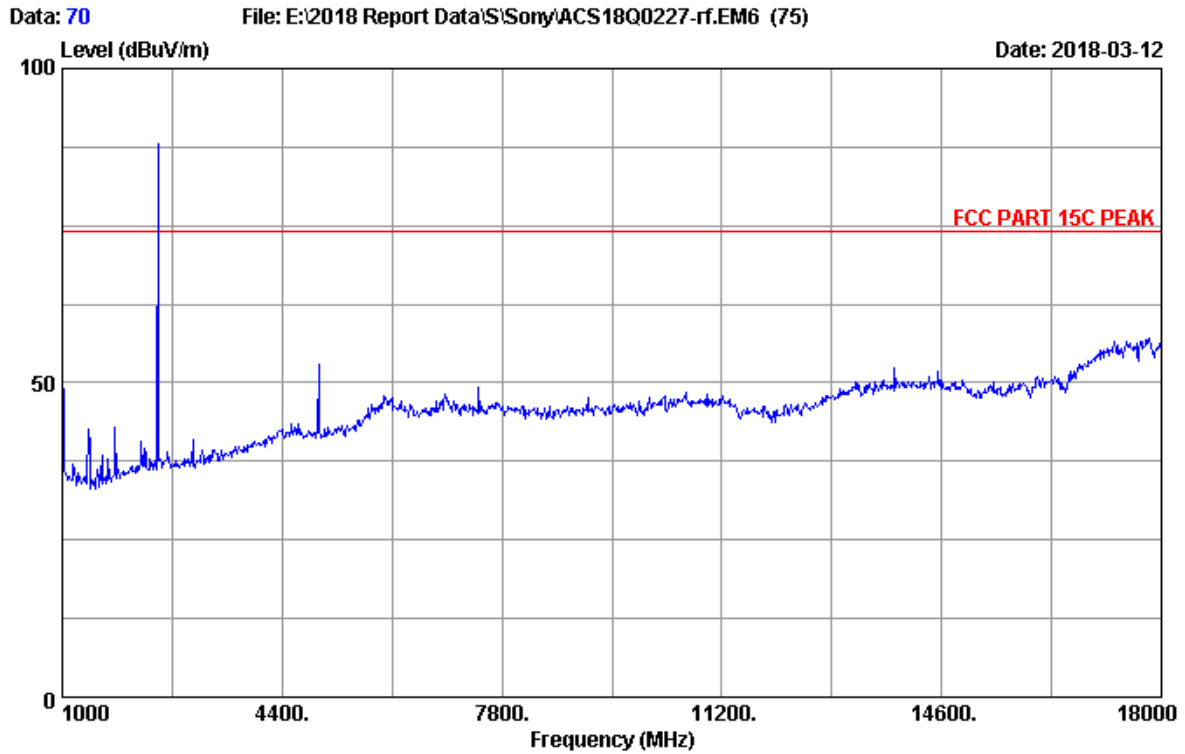
Site no. : 3m Chamber Data no. : 68  
Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 22.6°C/52% Engineer : Lynn  
EUT : Wireless Speaker M/N:SRS-XB01  
Power rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : BT4.0 GFSK 2440MHz Tx Mode



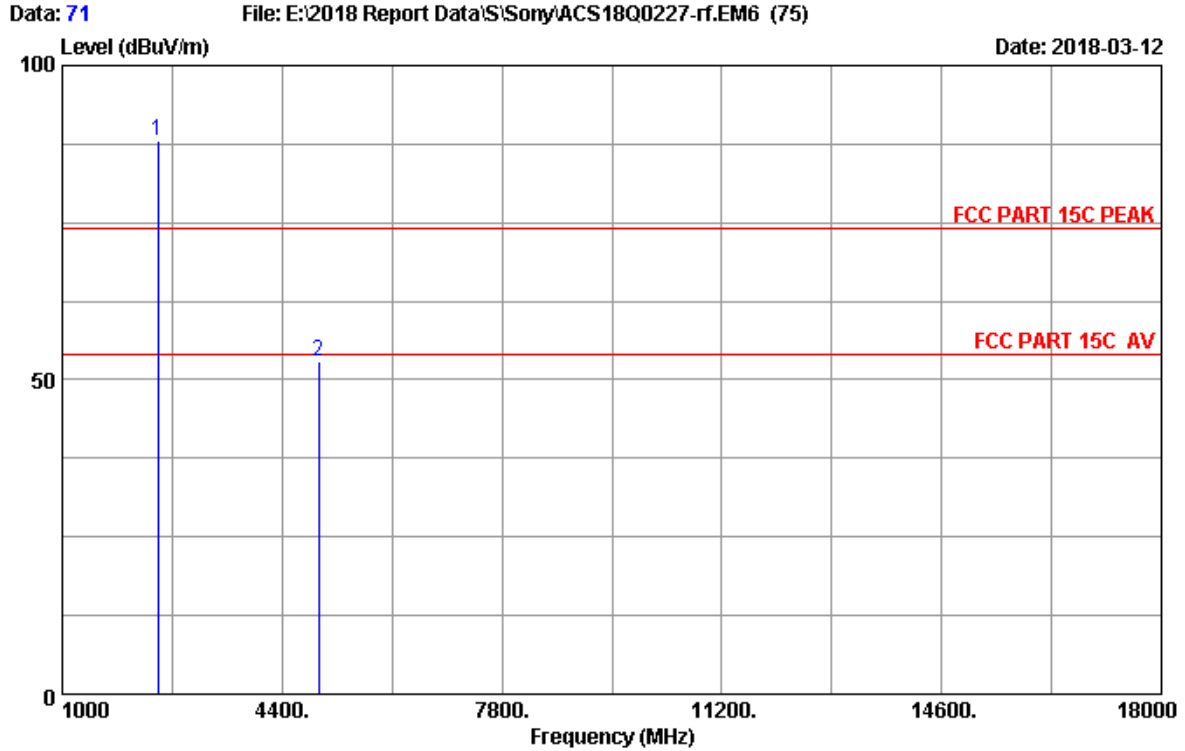
Site no. : 3m Chamber Data no. : 69  
 Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 22.6°C/52% Engineer : Lynn  
 EUT : Wireless Speaker M/N:SRS-XB01  
 Power rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : BT4.0 GFSK 2440MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.00	27.80	2.79	32.51	93.26	91.34	74.00	-17.34	Peak
2	4880.00	32.20	4.06	30.76	48.28	53.78	74.00	20.22	Peak

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



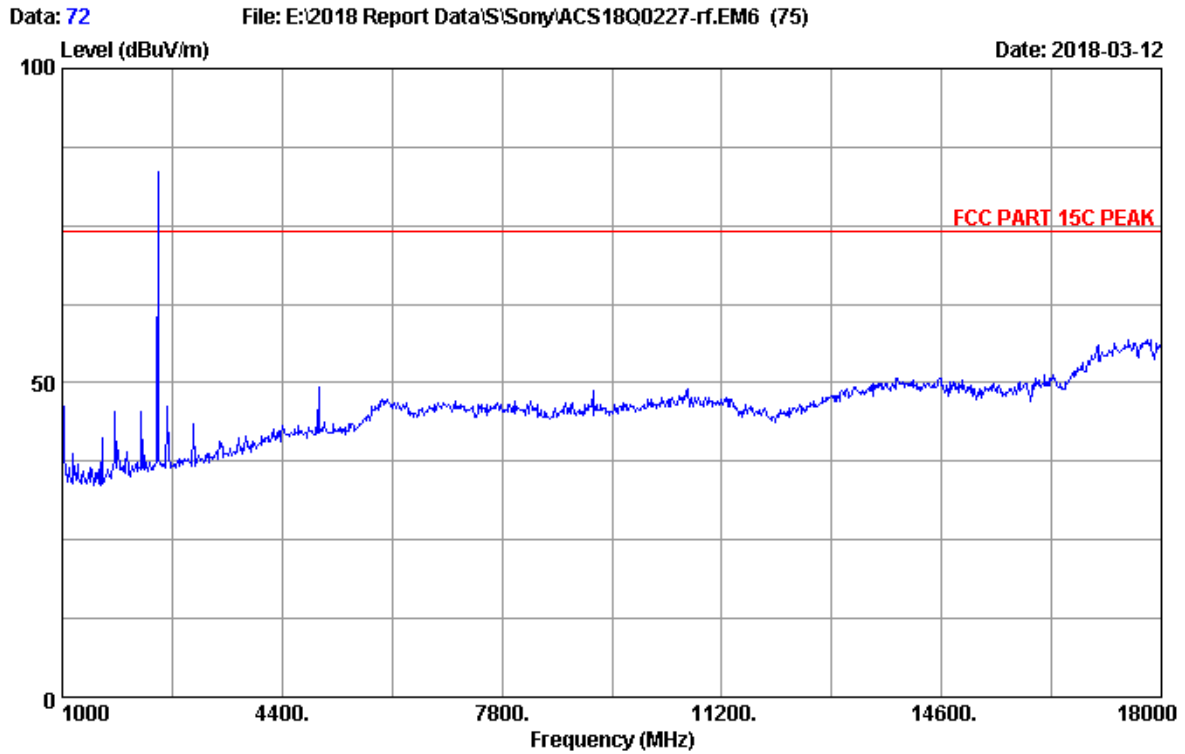
Site no. : 3m Chamber Data no. : 70  
Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 22.6°C/52% Engineer : Lynn  
EUT : Wireless Speaker M/N:SRS-XB01  
Power rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : BT4.0 GFSK 2480MHz Tx Mode



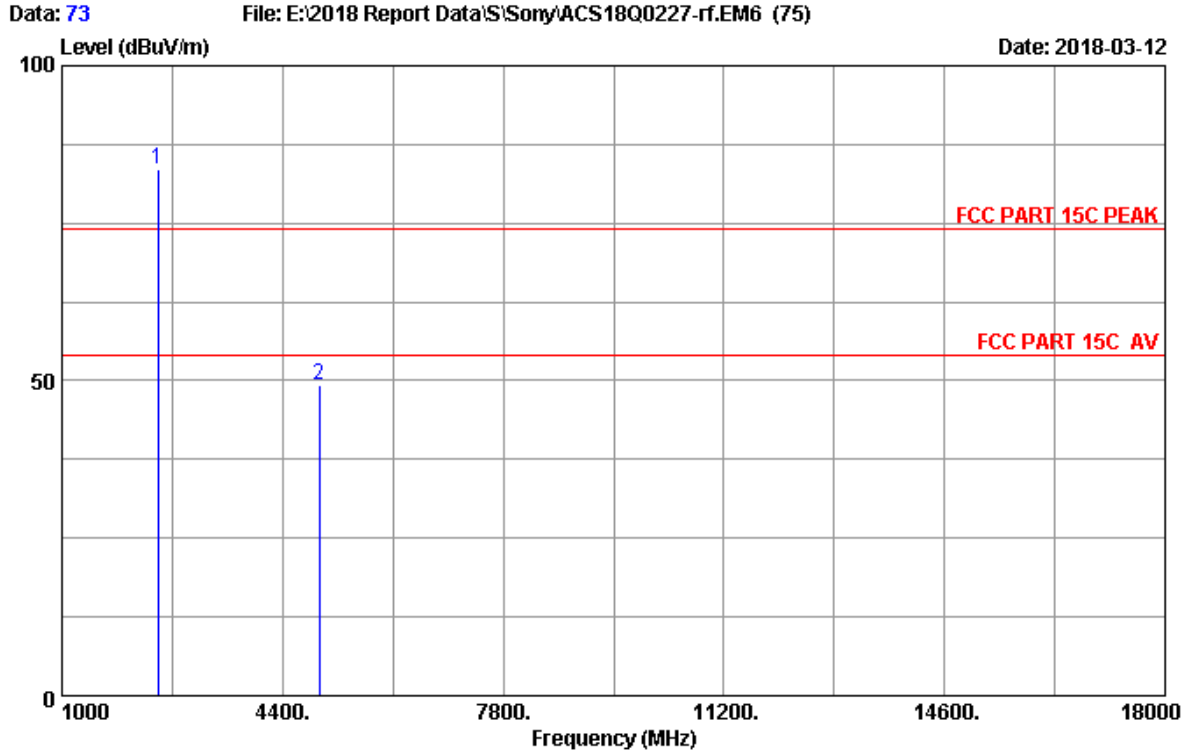
Site no. : 3m Chamber Data no. : 71  
 Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 22.6°C/52% Engineer : Lynn  
 EUT : Wireless Speaker M/N:SRS-XB01  
 Power rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : BT4.0 GFSK 2480MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.87	2.82	32.48	89.70	87.91	74.00	-13.91	Peak
2	4960.00	32.13	4.10	30.70	47.50	53.03	74.00	20.97	Peak

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



Site no. : 3m Chamber Data no. : 72  
Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 22.6°C/52% Engineer : Lynn  
EUT : Wireless Speaker M/N:SRS-XB01  
Power rating : DC 5V From PC Input AC 120V/60Hz  
Test Mode : BT4.0 GFSK 2480MHz Tx Mode



Site no. : 3m Chamber Data no. : 73  
 Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 22.6°C/52% Engineer : Lynn  
 EUT : Wireless Speaker M/N:SRS-XB01  
 Power rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : BT4.0 GFSK 2480MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.87	2.82	32.48	85.30	83.51	74.00	-9.51	Peak
2	4960.00	32.13	4.10	30.70	43.74	49.27	74.00	24.73	Peak

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

## 5. CONDUCTED SPURIOUS EMISSIONS

### 5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Sep.19,17	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	Apr.27,17	1 Year
3.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	No.1	Oct.15,17	1 Year

### 5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

### 5.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions With peak detector.

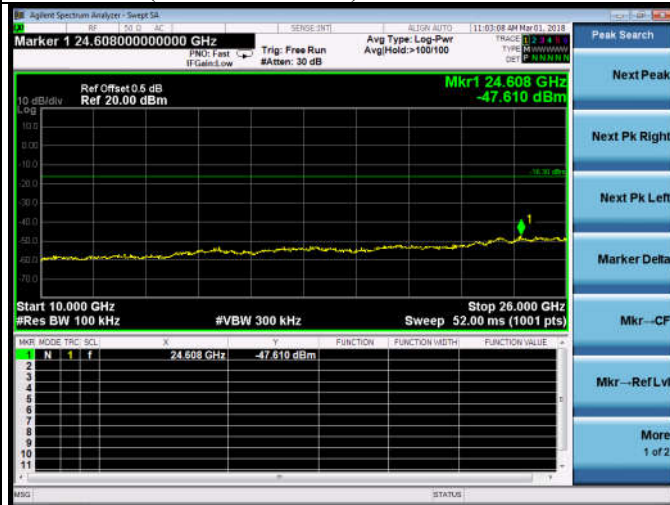
### 5.4. Test result

**PASS** (The testing data was attached in the next pages.)

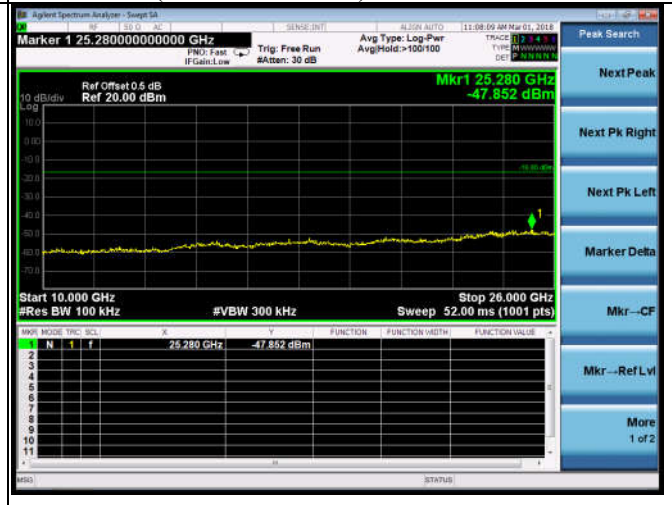




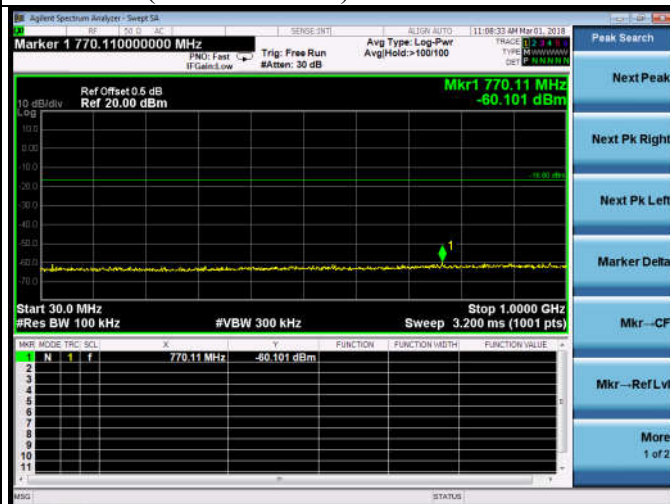
2440MHz(10GHz-25GHz)



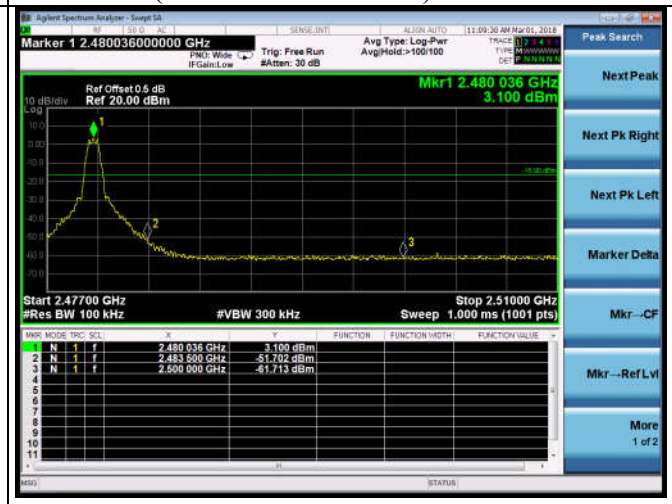
2480MHz(10GHz-25GHz)



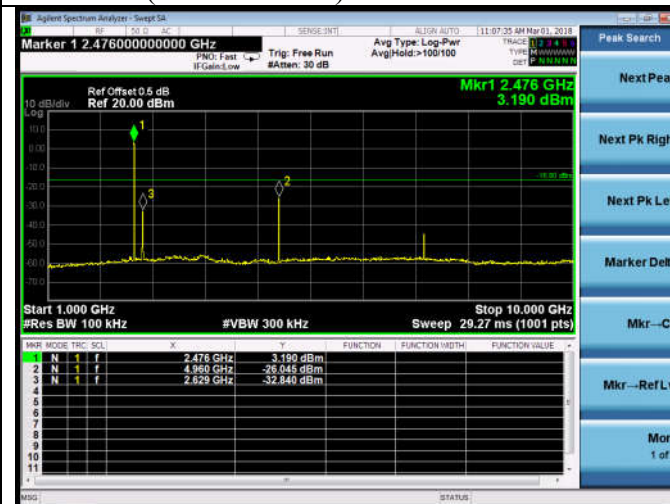
2480MHz(30MHz-1GHz)



2480MHz(2.477GHz-2.51GHz)



2480MHz(1GHz-10GHz)



## 6. 6dB BANDWIDTH TEST

### 6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Sep.19,17	1Year
2.	Attenuator	Agilent	8491B	MY39262165	Apr.27,17	1 Year
3.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	No.1	Oct.15,17	1 Year

### 6.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

### 6.3. Test Procedure

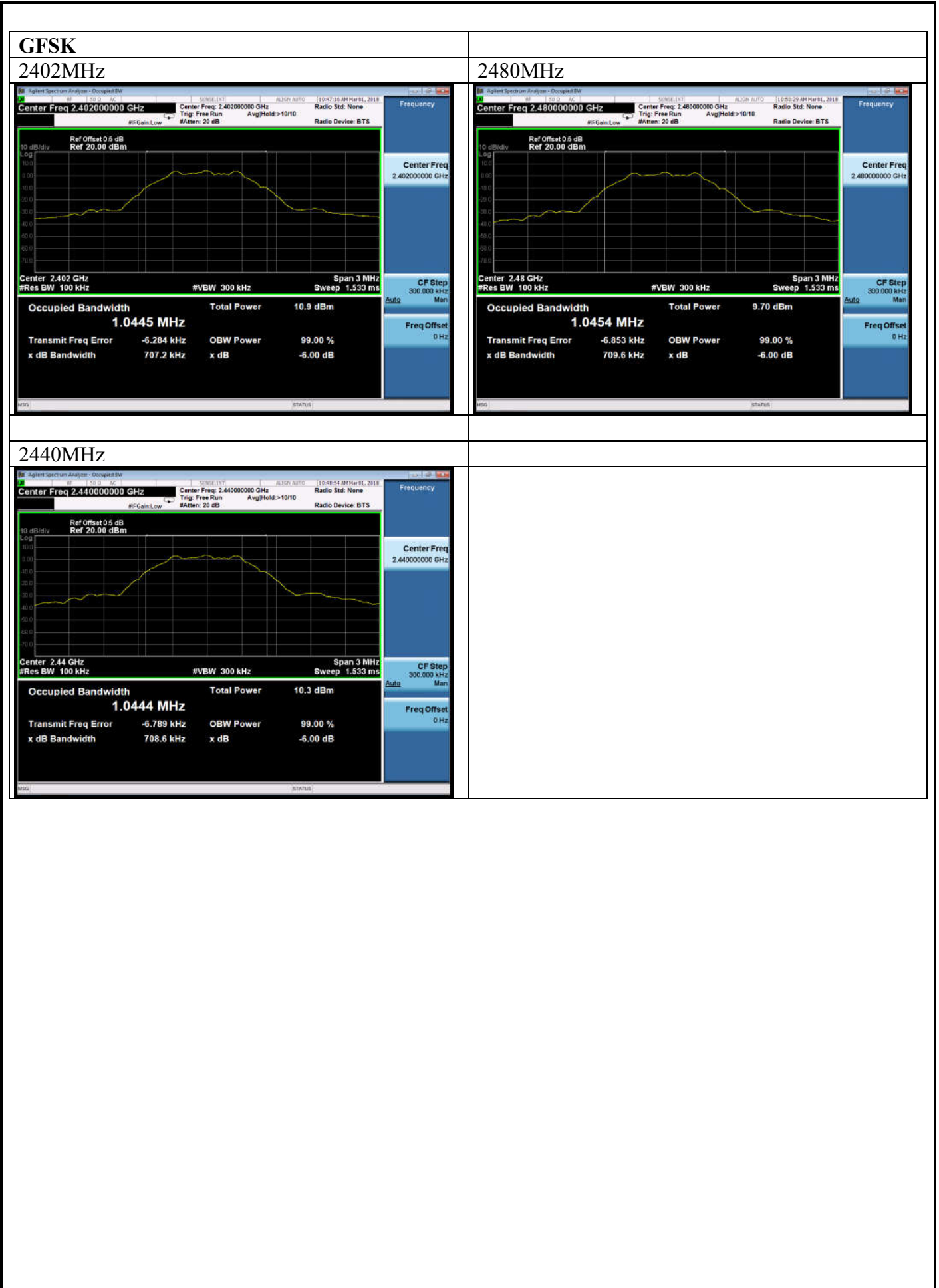
ANSI C63.10 Section 11.8 DTS bandwidth Option 2:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW  $\geq 3 \times$  RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be  $\geq 6$  dB.

### 6.4. Test Results

EUT: Wireless Speaker		
M/N: SRS-XB01		
Test date: 2018-03-01	Pressure: 102.3 $\pm$ 1.0 kpa	Humidity: 52.1 $\pm$ 3.0%
Tested by: Lynn	Test site: RF site	Temperature: 22.3 $\pm$ 0.6 °C

Test Mode	Frequency (MHz)	6 dB bandwidth (kHz)	Limit (KHz)
GFSK	2402	707.2	$\geq 500$
	2440	708.6	$\geq 500$
	2480	709.6	$\geq 500$
Conclusion : PASS			



## 7. MAXIMUM PEAK OUTPUT POWER TEST

### 7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Sep.19,17	1 Year
2.	Power meter	Anritsu	ML2487A	6K00002472	Apr.22,17	1 Year
3.	Power sensor	Anritsu	MA2491A	0033005	Apr.22,17	1 Year
4.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.22,17	1 Year
5.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	No.1	Oct.15,17	1 Year

### 7.2. Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm).

### 7.3. Test Procedure

Connected the EUT's antenna port to Power Sensor, and use power meter to test peak output power.

### 7.4. Test Results

EUT: Wireless Speaker			
M/N: SRS-XB01			
Test date: 2018-03-01		Pressure: 102.3±1.0 kpa	Humidity: 52.1±3.0%
Tested by: Lynn		Test site: RF site	Temperature:22.3±0.6 °C
Test Mode	Frequency (MHz)	Peak output Power ( dBm )	Limit (dBm)
GFSK	2402	4.337	30
	2440	3.775	30
	2480	3.237	30
Conclusion: PASS			

## 8. BAND EDGE COMPLIANCE TEST

### 8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	Apr.22,17	1 Year
2.	Amp	HP	8449B	3008A02495	Apr.22,17	1 Year
3.	Horn Antenna	ETS	3115	9510-4580	Dec.01,17	1 Year
4.	HF Cable	Hubersuhne	SUCOFLEX1 04	274094/4	Apr.22,17	1 Year

### 8.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

### 8.3. Test Produce

For upper band emissions that are up to two bandwidths(2MHz) away (2483.5MHz to 2485.5MHz) from the band-edge use below produce:

1. Choose a spectrum analyzer span that encompasses both the peak of the fundamental emission and the band-edge emission under investigation. Set the analyzer RBW to 100KHz and with a video bandwidth 300KHz. Record the peak levels of the fundamental emission and the relevant band-edge emission, Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not a field strength measurement, it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.
2. Subtract the delta measured in step (1) from the maximum field strengths measured in clause 4 .The resultant field strengths are then used to determine band-edge compliance as required by Section 15.205

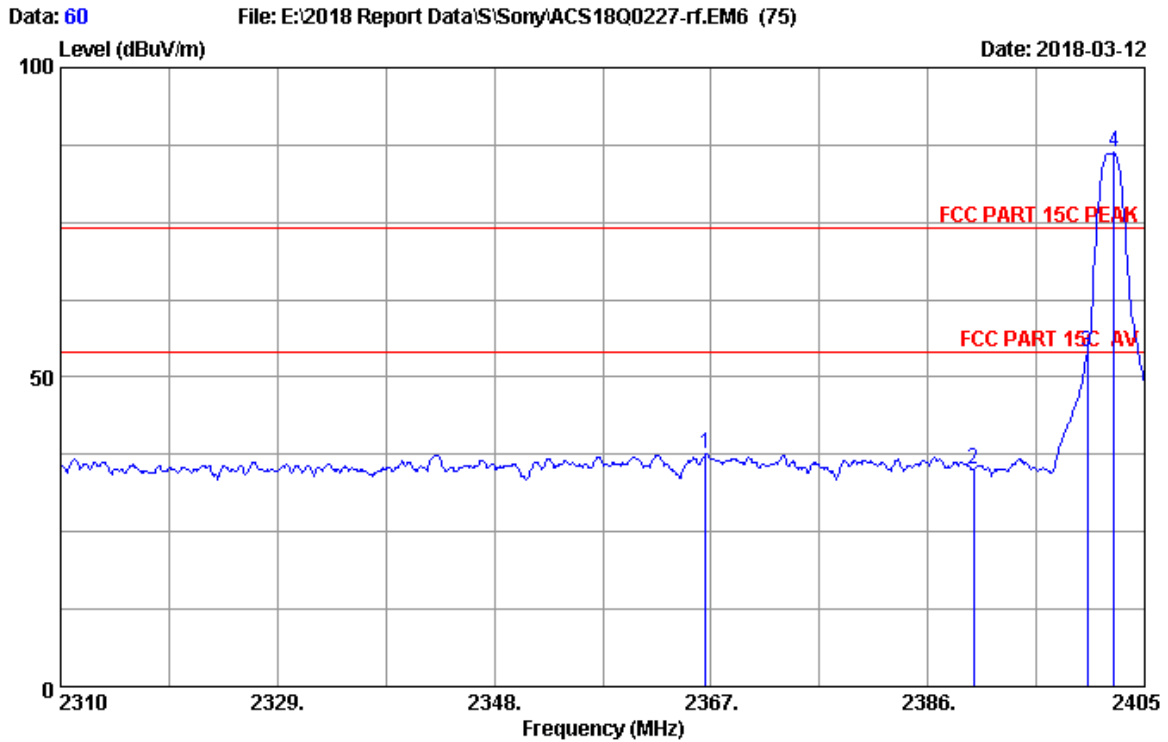
For emissions above two bandwidths away from the band-edge use below produce:

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
  - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
  - (b) This is pulse Modulation device a duty cycle factor was used to calculate average level based measured peak level.

### 8.4. Test Results

Pass (The testing data was attached in the next pages.)

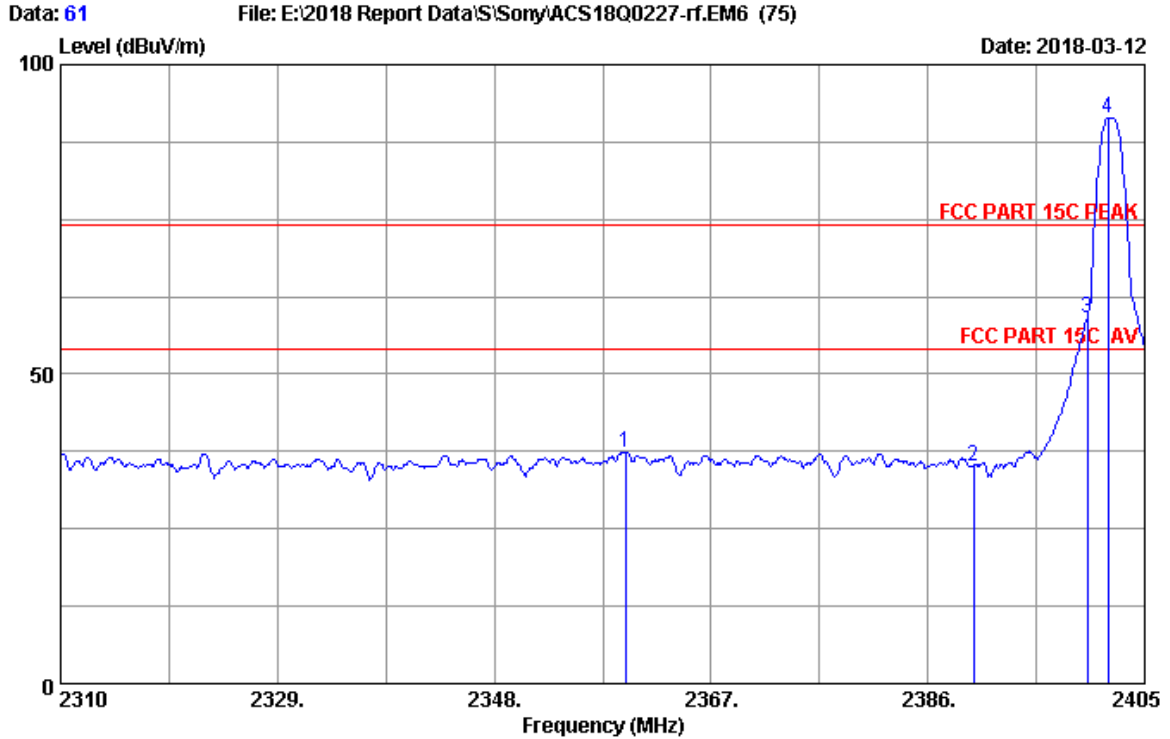
Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



Site no. : 3m Chamber Data no. : 60  
 Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 22.6°C/52% Engineer : Lynn  
 EUT : Wireless Speaker M/N:SRS-XB01  
 Power rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : BT4.2 GFSK 2402MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2366.53	27.62	2.74	32.58	39.74	37.52	74.00	36.48	Peak
2	2390.00	27.69	2.76	32.56	37.14	35.03	74.00	38.97	Peak
3	2400.00	27.69	2.76	32.56	56.14	54.03	74.00	19.97	Peak
4	2402.34	27.69	2.77	32.56	88.32	86.22	74.00	-12.22	Peak

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

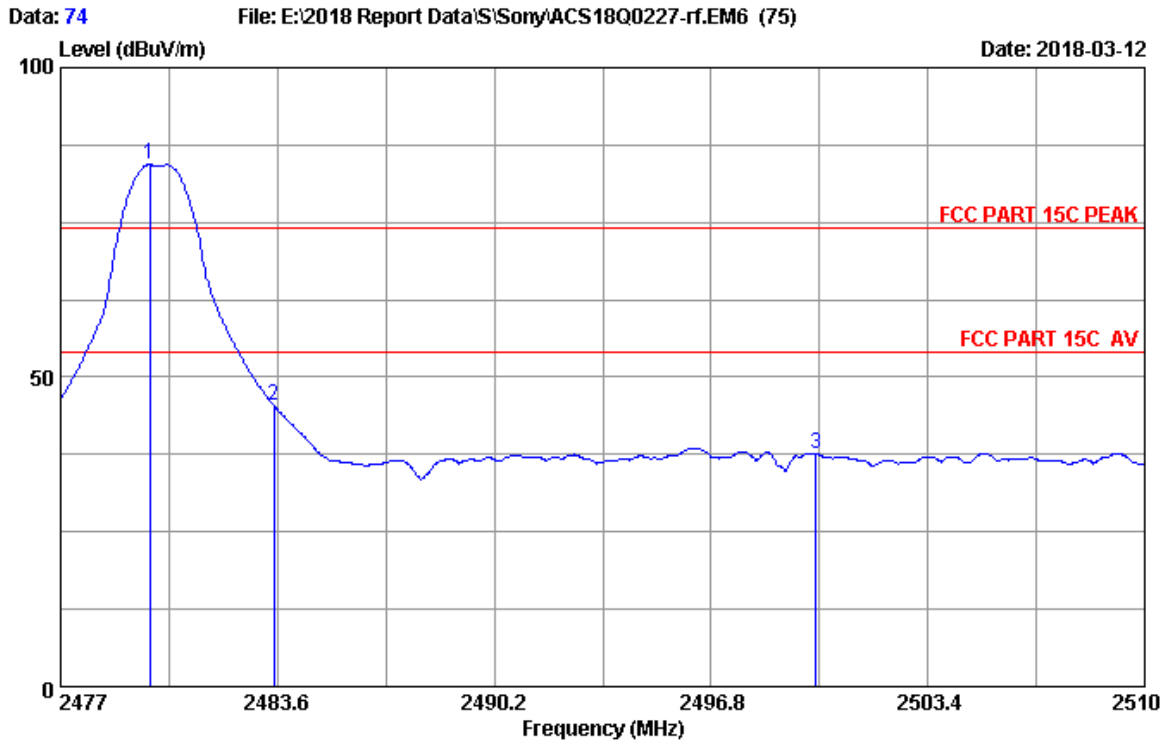


Site no. : 3m Chamber Data no. : 61  
 Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 22.6°C/52% Engineer : Lynn  
 EUT : Wireless Speaker M/N:SRS-XB01  
 Power rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : BT4.2 GFSK 2402MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2359.50	27.62	2.73	32.58	39.62	37.39	74.00	36.61	Peak
2	2390.00	27.69	2.76	32.56	37.30	35.19	74.00	38.81	Peak
3	2400.00	27.69	2.76	32.56	61.28	59.17	74.00	14.83	Peak
4	2401.77	27.69	2.77	32.56	93.58	91.48	74.00	-17.48	Peak

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

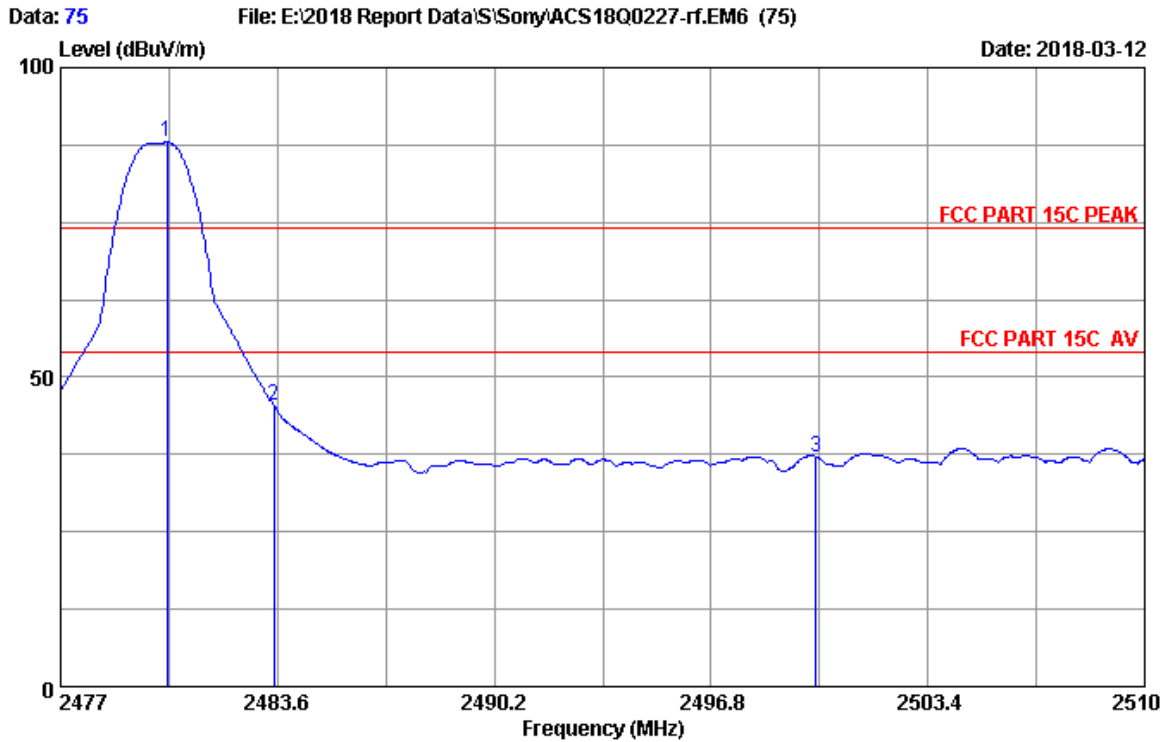




Site no. : 3m Chamber Data no. : 74  
 Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 22.6°C/52% Engineer : Lynn  
 EUT : Wireless Speaker M/N:SRS-XB01  
 Power rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : BT4.2 GFSK 2480MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2479.71	27.87	2.82	32.48	86.12	84.33	74.00	-10.33	Peak
2	2483.50	27.87	2.83	32.48	47.12	45.34	74.00	28.66	Peak
3	2500.00	27.90	2.84	32.46	39.35	37.63	74.00	36.37	Peak

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



Site no. : 3m Chamber Data no. : 75  
 Dis. / Ant. : 3m 2017 MCTD1209 3007 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 22.6°C/52% Engineer : Lynn  
 EUT : Wireless Speaker M/N:SRS-XB01  
 Power rating : DC 5V From PC Input AC 120V/60Hz  
 Test Mode : BT4.2 GFSK 2480MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2480.23	27.87	2.82	32.48	89.71	87.92	74.00	-13.92	Peak
2	2483.50	27.87	2.83	32.48	47.08	45.30	74.00	28.70	Peak
3	2500.00	27.90	2.84	32.46	38.85	37.13	74.00	36.87	Peak

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

## 9. POWER SPECTRAL DENSITY TEST

### 9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Sep.19,17	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	Apr.27,17	1 Year
3.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	No.1	Oct.15,17	1 Year

### 9.2. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 9.3. Test Procedure

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 DTS bandwidth.
- c) Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set the VBW  $\geq 3 \text{ RBW}$ .
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.

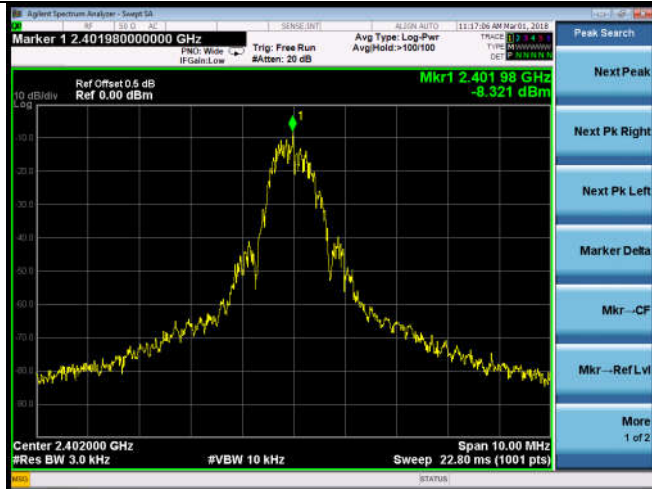
### 9.4. Test Results

EUT: Wireless Speaker		
M/N: SRS-XB01		
Test date: 2018-03-01	Pressure: 102.3±1.0 kpa	Humidity: 52.1±3.0%
Tested by: Lynn	Test site: RF site	Temperature: 22.3±0.6 °C

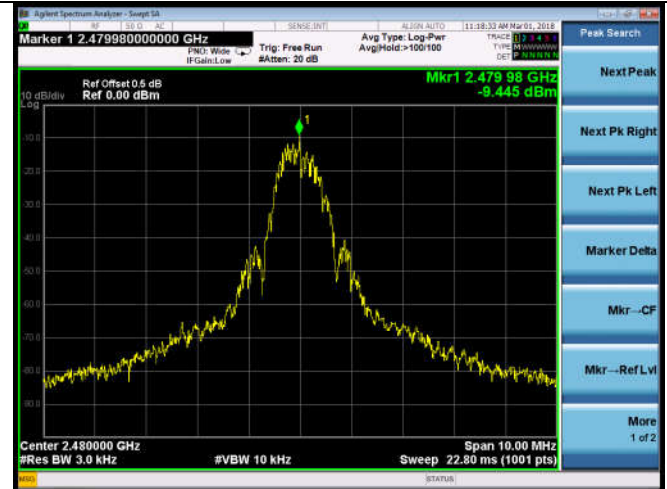
Test Mode	Frequency (MHz)	Power density (dBm/3KHz)	Limit (dBm/3KHz)
GFSK	2402	-8.321	8
	2440	-8.892	8
	2480	-9.445	8
Conclusion : PASS			

**GFSK**

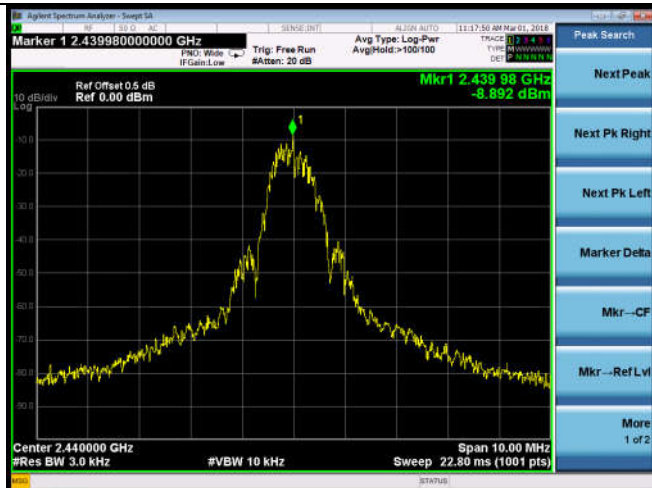
**2402MHz**



**2480MHz**



**2440MHz**



## 10. ANTENNA REQUIREMENT

### 10.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 10.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are Connector antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 1.5dBi.

## 11. DEVIATION TO TEST SPECIFICATIONS

[NONE]