

Prüfbericht-Nr.: Test Report No.:		16073772 001		Auftrags-Nr.: Order No.:		174045331		Seite 1 von 28 Page 1 of 28	
Kunden-Referenz-Nr.: Client Reference No.:		440253		Auftragsdatum: Order date.:		19 Jan, 2016			
Auftraggeber: Client:		Dongguan Alllike Electronics Co., Ltd. Chuanacha Development Zone, Machong Town 523141 P.R. China							
Prüfgegenstand: Test item:		Bluetooth Rock Speaker		FCC ID: FCC ID:		BUQBR90P5			
Bezeichnung / Typ-Nr.: Identification / Type No.:		ITSBO-358P5							
Auftrags-Inhalt: Order content:		TUV Rheinland - EMC service							
Prüfgrundlage: Test specification:		CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 FCC KDB Publication 447498 D01 v06							
Wareneingangsdatum: Date of receipt:		19 Jan, 2016							
Prüfmuster-Nr.: Test sample No.:		174045331-001							
Prüfzeitraum: Testing period:		Refer to test report							
Ort der Prüfung: Place of testing:		Refer to section 2.1							
Prüflaboratorium: Testing laboratory:		TÜV Rheinland (Guangdong) Ltd.							
Prüfergebnis*: Test result*:		Pass							
geprüft von / tested by:				kontrolliert von / reviewed by:					
									
07 Mar, 2016		Storm Shu / Assistant Project Manager		07 Mar, 2016		Max Y. C. Yao/ Department Manager			
Datum Date	Name/Stellung Name/Position	Unterschrift Signature	Datum Date	Name/Stellung Name/Position	Unterschrift Signature				
Sonstiges / Other:									
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:					Prüfmuster vollständig und unbeschädigt Test item complete and undamaged:				
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested									
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>									

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: *Passed*

5.1.2 PEAK OUTPUT POWER

RESULT: *Passed*

5.1.3 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: *Passed*

5.1.4 SPURIOUS EMISSION

RESULT: *Passed*

5.1.5 20dB BANDWIDTH

RESULT: *Passed*

5.1.6 FREQUENCY SEPARATION

RESULT: *Passed*

5.1.7 NUMBER OF HOPPING FREQUENCY

RESULT: *Passed*

5.1.8 TIME OF OCCUPANCY

RESULT: *Passed*

5.1.9 CONDUCTED EMISSIONS

RESULT: *Passed*

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: *Passed*

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

2 Test Sites

2.1 Test Facilities

GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY CO.,LTD

163 Ping Yun Rd, West of HuangPu Ave, Guangzhou, Guangdong, P.R.China

FCC Registration No. 688188

The tests at these test sites have been conducted under the supervision of a TÜV Rheinland engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
carrier frequencies separated/ hopping channel number/ dwell time/ maximum peak output power/100kHz bandwidth of frequency band edge/ Spurious Emissions at Antenna Port/ Restricted Bands				
Receiver	R&S	ESU26	100526	2016-03-08
Conducted Emissions				
EMI Receiver	R&S	ESCI	100529	2016-03-24
L.I.S.N	SCHWARZBECK	NSLK 8127	8127450	2015-08-18
Radiated Spurious Emissions				
Receiver	R&S	ESU26	100526	2016-03-08
Loop antenna	R&S	HFH2-Z2	881058/58	2016-04-17
Biconical Log-periodic Antenna	ETS.LINDGREN	3142C	00075971	2016-04-17
Horn antenna	SCHWARZBECK	BBHA9120D	D752	2017-03-03
Per-Amplifier (0.1-26.5GHz)	Compliance Directions systems Inc.	PAP-0126	25002	2017-01-03

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Uncertainty for conducted emissions measurements is 2.40dB.

Uncertainty for radiated emissions measurements is 4.40dB (30M-1GHz) and 4.40dB (> 1GHz).

The reported expanded uncertainty is based on a standard uncertainty multiply by a coverage factor $k=2$, providing a level of confidence of approximately 95%.

2.6 Location of original data

The original copies of test data taken during actual testing were attached at Appendix 1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Guangdong) file for certification follow-up purposes.

2.7 Status of facility used for testing

GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY CO.,LTD
163 Ping Yun Rd, West of HuangPu Ave, Guangzhou, Guangdong, P.R.China. whose registration number is 688188.

3 General Product Information

3.1 Product Function and Intended Use

The submit sample ITSBO-358P5 (the same as ITSBO-385P in appendix 1) is a “Bluetooth Speaker” with Bluetooth 2.1 +EDR, which is intended to enable Bluetooth connectivity with Notebook or smart phone, and play the music from Bluetooth device.

For more details refer to the Technical Documentation or User manual.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment	Bluetooth Rock Speaker
Type Designation	ITSBO-358P5
FCC ID	BUQBR90P5

Table 3: Technical Specification of Bluetooth (BDR & EDR)

Technical Specification	Value
Operating Frequency band	2402 – 2480 MHz
Bluetooth Core Version	2.1+EDR
Channel separation	1MHz
Extreme Temperature Range	-10°C to +40°C
Operation Voltage	DC 5V, 1A
Operation Voltage (Adapter YN6W-050100UU)	100~240Vac, 50/60Hz;
Modulation	GFSK, 8DPSK, $\pi/4$ DQPSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	0 dBi
RF Output Power	0.00164W (2.150dBm)

Table 4: RF channel and frequency of Bluetooth (BDR & EDR mode)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00	/	/

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Traditional Bluetooth
 - 1. Transmitting on low channel
 - 2. Transmitting on middle channel
 - 3. Transmitting on high channel
- B. On, Traditional Bluetooth on Hopping channel
- C. On, Bluetooth connecting mode
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- 1. Block Diagram
- 2. Circuit Diagram
- 3. Operation Description
- 4. PCB Layout
- 5. BOM
- 6. FCC label and location
- 7. User Manual
- 8. Internal Photos
- 9. External Photos
- 10. Application form

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level.
The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5.

All testing were performed according to the procedures in ANSI C63.4: 2014 & ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Kind of Equipment	Manufacturer	Model Name	S/N
Notebook	Lenovo	E46A	EB24320428
AC/DC Adapter	Yingna	YN6W-050100UU	/
iPhone	Apple	A1586	/

4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the technical document. No additional measures were employed to achieve compliance.

4.5 Test set-up

Diagram of Measurement Configuration for Radiation Test

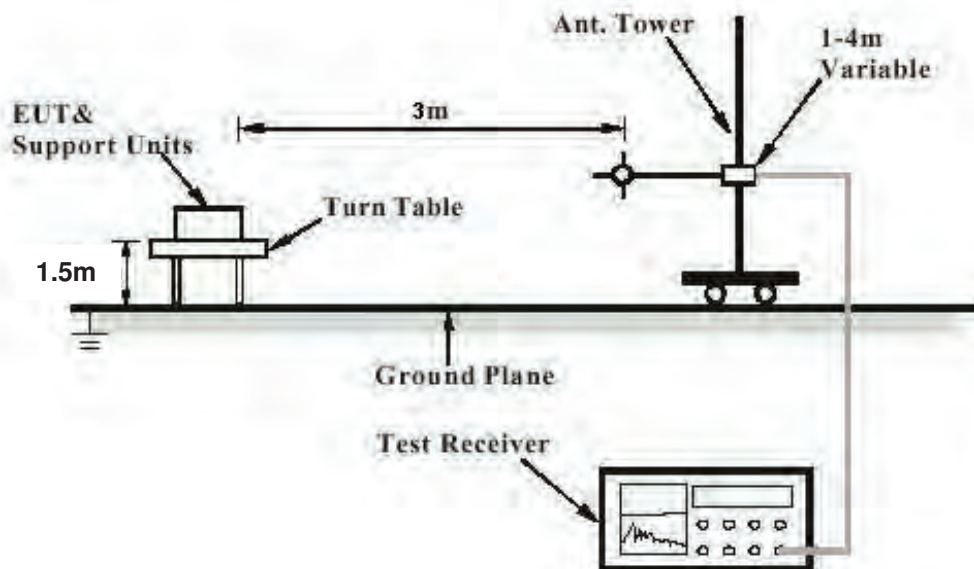


Diagram of Measurement Configuration for Mains Conduction Measurement

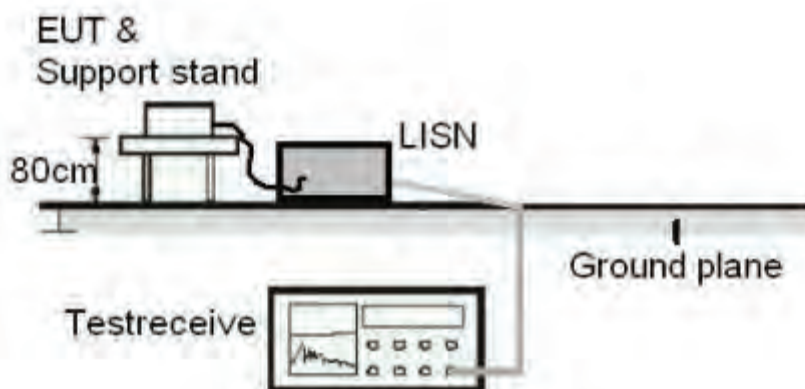
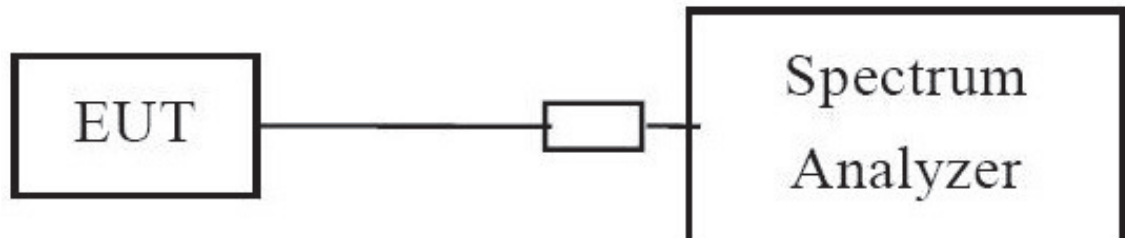


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Passed

Test Specification

Test standard	: FCC Part 15.247(b)(4) and Part 15.203
Limits	: the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement.

Therefore the EUT is considered sufficient to comply with the provision.

For more details, refer to EUT photo.

5.1.2 Peak Output Power

RESULT:

Passed

Test Specification

Test standard	: FCC Part 15.247(b)(1) & (b)(3)
Basic standard	: ANSI C63.10: 2013
Limits	: BDR/ EDR: 0.125 Watts
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 17 Jul, 2015 & 29 Jul, 2015
Power supply	: 120Vac, 60Hz
Operation mode	: A (See 3.3)
Test channel	: Low / Middle / High
Ambient temperature	: 23.2 °C
Relative Humidity	: 61 %
Atmospheric pressure	: 101 kPa

Table 5: Test result of Peak Output Power, GFSK

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	2.150	0.00164	0.125
Middle Channel	2441	1.450	0.00140	0.125
High Channel	2480	0.730	0.00118	0.125

Table 6: Test result of Peak Output Power, $\pi/4$ DQPSK

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	1.490	0.00141	0.125
Middle Channel	2441	0.800	0.00120	0.125
High Channel	2480	-1.770	0.00067	0.125

Table 7: Test result of Peak Output Power, 8DPSK

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	1.970	0.00157	0.125
Middle Channel	2441	1.260	0.00134	0.125
High Channel	2480	0.570	0.00114	0.125

5.1.3 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:

Passed

Test Specification

Test standard : FCC Part 15.247(d)
Basic standard : ANSI C63.10: 2013
Limits : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);

In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)

Kind of test site : Shielded Room

Test Setup

Date of testing : 15 Jul, 2015
Power supply : 120Vac, 60Hz
Operation mode : A (See 3.3)
Test channel : Low / Middle / High
Ambient temperature : 23.2 °C
Relative Humidity : 61 %
Atmospheric pressure : 101 kPa

All emissions are more than 20dB below fundamental, compliance is achieved as well.

For the measurement records, refer to the appendix 1.

5.1.4 Spurious Emission

RESULT:

Passed

Test Specification

Test standard	: FCC Part 15.247(d), FCC Part 15.205
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	: 3m Semi-anechoic chamber

Test Setup

Date of testing	: Refer to the appendix 1.
Power supply	: 120Vac, 60Hz
Operation mode	: A(See 3.3)
Test channel	: Low / Middle / High
Ambient temperature	: Refer to the appendix 1.
Relative Humidity	: Refer to the appendix 1.
Atmospheric pressure	: Refer to the appendix 1.

Remark:

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test setup photos.

Testing was carried out within frequency range 30MHz to the tenth harmonic. For details refer to appendix 1. The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report. Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

For the measurement records, refer to the appendix 1.

5.1.5 20dB Bandwidth

RESULT:

Passed

Test Specification

Test standard : FCC Part 15.247(a)(1)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 15 Jul, 2015
Power supply : 120Vac, 60Hz
Operation mode : A (See 3.3)
Test channel : Low / Middle / High
Ambient temperature : 25 °C
Relative Humidity : 60 %
Atmospheric pressure : 101 kPa

Table 8: Test result of 20dB Bandwidth, GFSK mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	1085.4	/	Pass
Mid Channel	2441	1070.9	/	Pass
High Channel	2480	1070.9	/	Pass

Table 9: Test result of 20dB Bandwidth, 8DPSK

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	1353.1	/	Pass
Mid Channel	2441	1353.1	/	Pass
High Channel	2480	1215.6	/	Pass

5.1.6 Frequency Separation

RESULT:

Passed

Test Specification

Test standard : FCC Part 15.247(a)(1)
Basic standard : ANSI C63.10: 2013
Limits : $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater
Kind of test site : Shielded Room

Test Setup

Date of testing : 15 Jul, 2015
Power supply : 120Vac, 60Hz
Operation mode : A (See 3.3)
Test channel : Low / Middle / High
Ambient temperature : $23.2\text{ }^{\circ}\text{C}$
Relative Humidity : 61 %
Atmospheric pressure : 101 kPa

Table 10: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1.0	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1.0		Pass
Adjacency Channel	2442			
High Channel	2480	1.0		Pass
Adjacency Channel	2479			

5.1.7 Number of Hopping Frequency

RESULT:

Passed

Test Specification

Test standard : FCC part 15.247(a)(1)(iii)
Basic standard : ANSI C63.10: 2013
Limits : ≥ 15 non-overlapping channels
Kind of test site : Shielded Room

Test Setup

Date of testing : 15 Jul, 2015
Power supply : 120Vac, 60Hz
Operation mode : B (See 3.3)
Ambient temperature : 23.2 °C
Relative Humidity : 61 %
Atmospheric pressure : 101 kPa

Table 11: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
<u>2400</u> to <u>2483.5</u> MHz	79	≥ 15	Pass

5.1.8 Time of Occupancy

RESULT:

Passed

Test Specification

Test standard : FCC part 15.247(a)(1)(iii)
Basic standard : ANSI C63.10: 2013
Limits : 0.4s
Kind of test site : Shielded Room

Test Setup

Date of testing : 15 Jul, 2015
Power supply : 120Vac, 60Hz
Operation mode : A (See 3.3)
Test channel : Low / Middle / High
Ambient temperature : 23.2 °C
Relative Humidity : 61 %
Atmospheric pressure : 101 kPa

Table 12: Test result of Time of Occupancy, 8DPSK mode

Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	DH1	0.391	0.132	0.4	Pass
	DH3	1.601	0.225	0.4	Pass
	DH5	2.783	0.281	0.4	Pass
Mid Channel	DH1	0.413	0.132	0.4	Pass
	DH3	1.406	0.225	0.4	Pass
	DH5	2.632	0.281	0.4	Pass
High Channel	DH1	0.405	0.130	0.4	Pass
	DH3	1.406	0.225	0.4	Pass
	DH5	2.632	0.281	0.4	Pass

Table 13: Test result of Time of Occupancy, GFSK mode

Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	DH1	0.413	0.132	0.4	Pass
	DH3	1.558	0.249	0.4	Pass
	DH5	2.974	0.317	0.4	Pass
Mid Channel	DH1	0.384	0.123	0.4	Pass
	DH3	1.580	0.253	0.4	Pass
	DH5	2.748	0.293	0.4	Pass
High Channel	DH1	0.399	0.128	0.4	Pass
	DH3	1.580	0.253	0.4	Pass
	DH5	2.748	0.293	0.4	Pass

Note:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

Period = 0.4 (seconds/ channel) x 79 (channel) = 31.6 seconds

5.1.9 Conducted Emissions

RESULT:

Passed

Test Specification

Test standard	: FCC part 15.207
Basic standard	: ANSI C63.4: 2014
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 15 Jul, 2015
Power supply	: 120Vac, 60Hz
Operation mode	: D (See 3.3)
Earthing	: Not connected
Ambient temperature	: 23.2 °C
Relative Humidity	: 61 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix 1.

6 Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

Passed

Test Specification

Test standard : FCC KDB Publication 447498 v06

The minimum distance for the EUT is less than 5mm.
Since maximum peak output power of the transmitter is 1.64mW <10 mW.

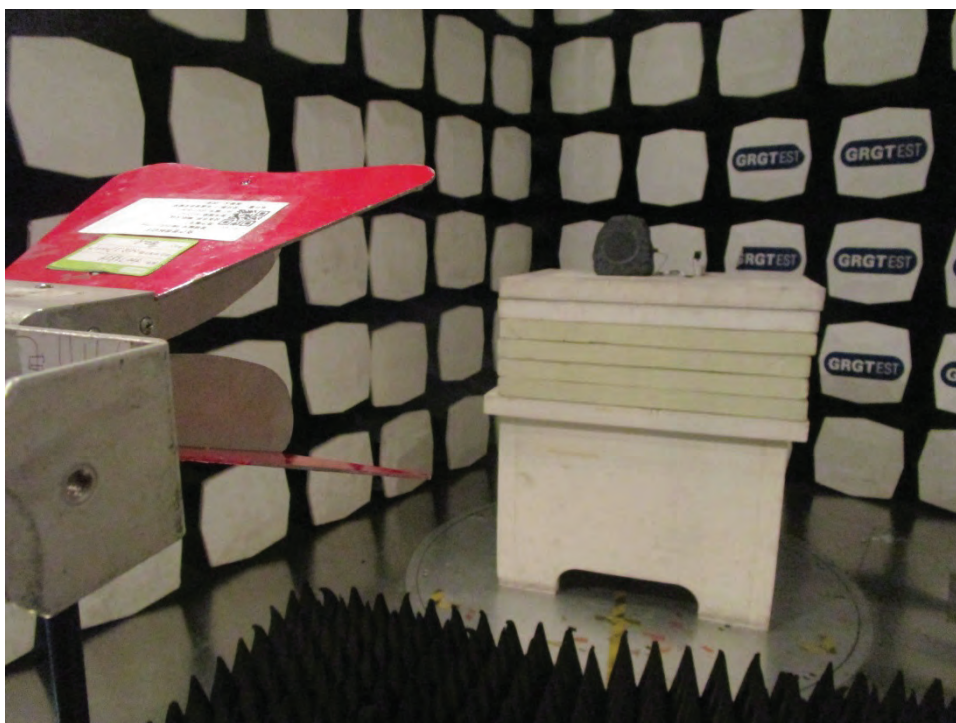
Hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01 General RF Exposure Guidance v06.

7 Photographs of the Test Set-Up

Photograph 1: Set-up for Spurious Emissions (30MHz-1GHz)



Photograph 2: Set-up for Spurious Emissions (above 1GHz)



Photograph 3: Set-up for Conducted Emissions



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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY CO.,LTD

Tel (86)020-38699960

[Http://www.grgtest.com](http://www.grgtest.com)

Radiated Emission Measurement

File :RSE

Data :#1

Date: 2016-2-2

Time: 8:40:30

72.0 dBuV/m



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: GFSK 2441

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		43.6584	18.30	13.60	31.90	40.00	-8.10	QP		
2	*	45.3755	21.41	12.99	34.40	40.00	-5.60	QP		
3		48.8429	15.29	11.61	26.90	40.00	-13.10	QP		
4		156.4578	25.26	11.48	36.74	43.50	-6.76	peak		
5		473.8347	17.32	18.66	35.98	46.00	-10.02	peak		
6		513.6331	15.68	19.46	35.14	46.00	-10.86	peak		

*:Maximum data x:Over limit !:over margin

File :RSE\Data :#1

Page: 1

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GRGTEST

GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY CO.,LTD

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Http://www.grgtest.com

Radiated Emission Measurement

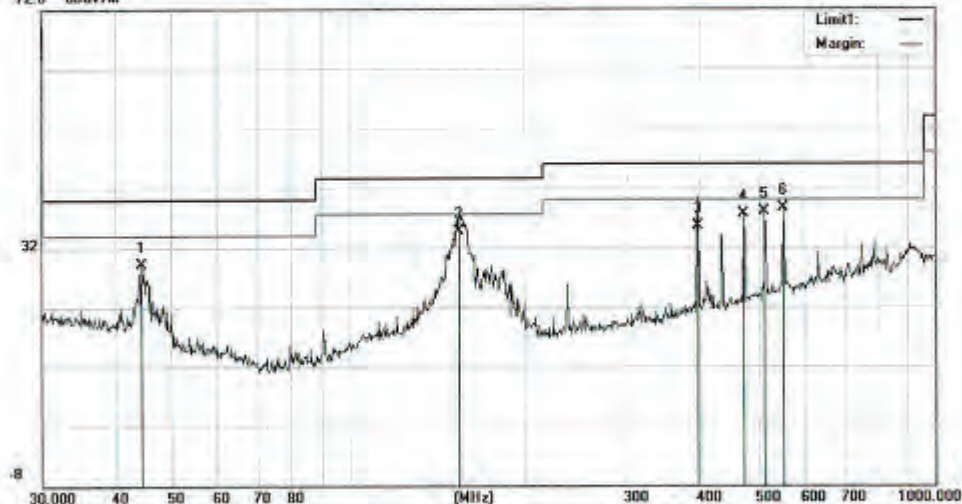
File :RSE

Data :#2

Date: 2016-2-2

Time: 8:58:45

72.0 dBuV/m



Site Chamber #1

Polarization: **Horizontal**

Temperature: 17.5

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 56 %

EUT: Bluetooth Rock Speaker

Distance: 3m

Test Result: Pass

M/N: ITSBO-358P

Mode: GFSK 2441

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		44.5867	15.88	13.32	29.20	40.00	-10.80	peak		
2		154.2786	23.20	11.60	34.80	43.50	-8.70	QP		
3		394.8545	18.06	17.54	35.60	46.00	-10.40	QP		
4		472.1759	18.93	18.61	37.54	46.00	-8.46	peak		
5		511.8351	18.41	19.42	37.83	46.00	-8.17	peak		
6	*	550.9479	17.76	20.69	38.45	46.00	-7.55	peak		

*:Maximum data x:Over limit !:over margin

File :RSE\Data :#2

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Radiated Emission Measurement

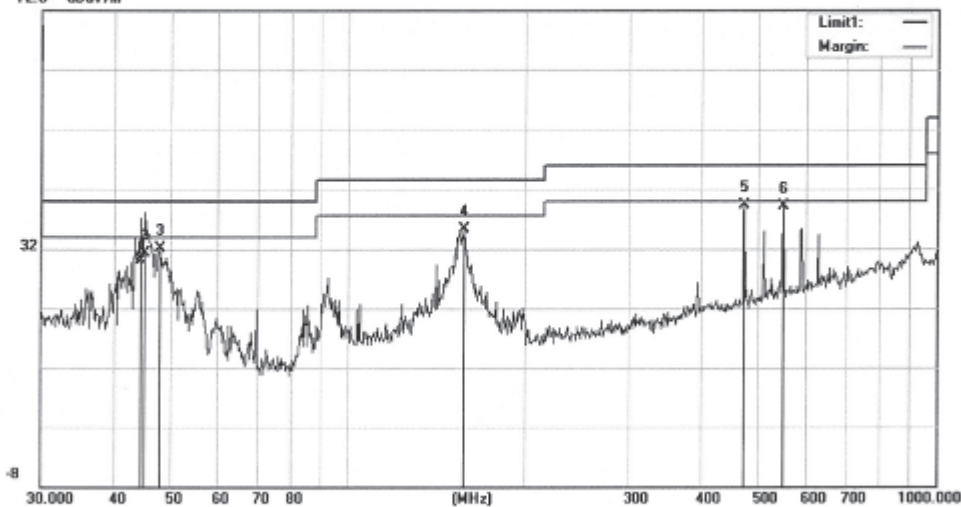
File :RSE

Data :#7

Date: 2016-2-2

Time: 9:16:00

72.0 dBuV/m



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: 8DPSK 2441

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		44.2752	16.66	13.44	30.10	40.00	-9.90	QP		
2		44.9006	18.12	13.18	31.30	40.00	-8.70	QP		
3		47.6586	20.06	12.08	32.14	40.00	-7.86	peak		
4		157.5588	23.83	11.43	35.26	43.50	-8.24	peak		
5	*	472.1760	20.78	18.61	39.39	46.00	-6.61	peak		
6		550.9480	18.46	20.69	39.15	46.00	-6.85	peak		

*:Maximum data x:Over limit l:over margin

File :RSE\Data :#7

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Radiated Emission Measurement

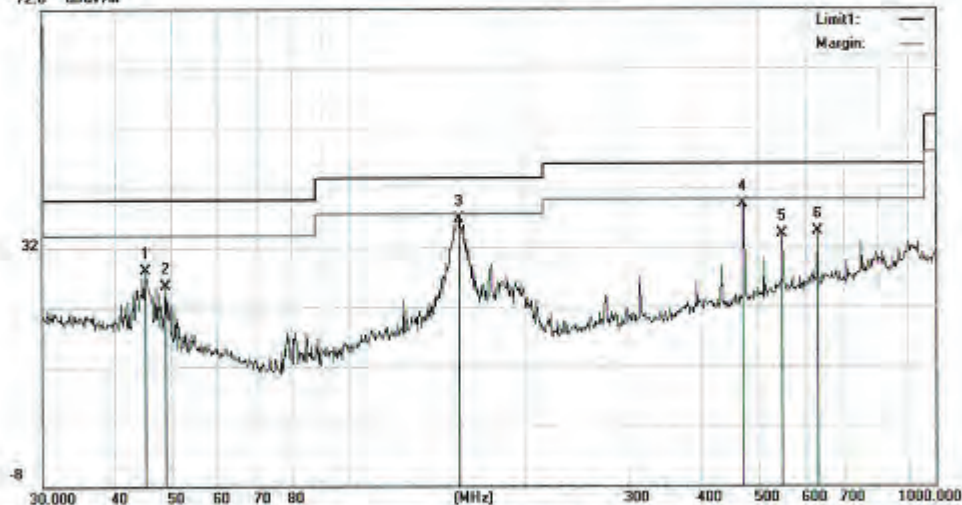
File :RSE

Data :#8

Date: 2016-2-2

Time: 9:19:28

72.0 dBuV/m



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: 8DPSK 2441

Note:

Polarization: **Horizontal**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		45.2166	15.10	13.05	28.15	40.00	-11.85	peak			
2		48.8429	13.91	11.61	25.52	40.00	-14.48	peak			
3	*	154.2786	25.16	11.60	36.76	43.50	-6.74	peak			
4		470.5232	20.53	18.58	39.11	46.00	-6.89	peak			
5		549.0195	13.34	20.71	34.05	46.00	-11.95	peak			
6		629.4772	13.52	21.01	34.53	46.00	-11.47	peak			

*:Maximum data x:Over limit l:over margin

File :RSEData :#8

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Radiated Emission Measurement

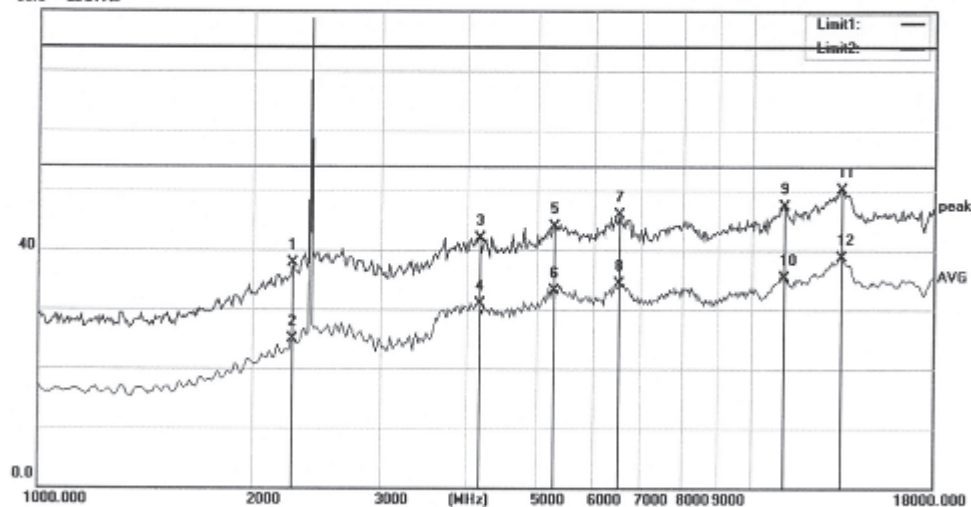
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Data: #13

Date: 2016-2-2

Time: 9:58:01

80.0 dBuV/m



Site Chamber #1

Polarization: **Horizontal**

Temperature: 17.5

Limit: (RE)FCC PART 15 class B 3m_PEAK

Power: AC 120V/60Hz

Humidity: 56 %

EUT: Bluetooth Rock Speaker

Distance: 3m

Test Result: Pass

M/N: ITSBO-358P

Mode: GFSK 2402

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2270.193	31.01	6.72	37.73	74.00	-36.27	peak			
2		2270.193	18.20	6.72	24.92	54.00	-29.08	AVG			
3		4164.757	31.48	10.48	41.96	74.00	-32.04	peak			
4		4164.757	20.48	10.48	30.96	54.00	-23.04	AVG			
5		5299.021	31.86	12.08	43.94	74.00	-30.06	peak			
6		5299.021	21.03	12.08	33.11	54.00	-20.89	AVG			
7		6527.098	32.66	13.28	45.94	74.00	-28.06	peak			
8		6527.098	21.05	13.28	34.33	54.00	-19.67	AVG			
9		11118.86	30.22	17.05	47.27	74.00	-26.73	peak			
10		11118.86	18.34	17.05	35.39	54.00	-18.61	AVG			
11		13382.17	29.86	20.18	50.04	74.00	-23.96	peak			
12	*	13382.17	18.44	20.18	38.62	54.00	-15.38	AVG			

*:Maximum data x:Over limit !:over margin

File :RSE\Data :#13

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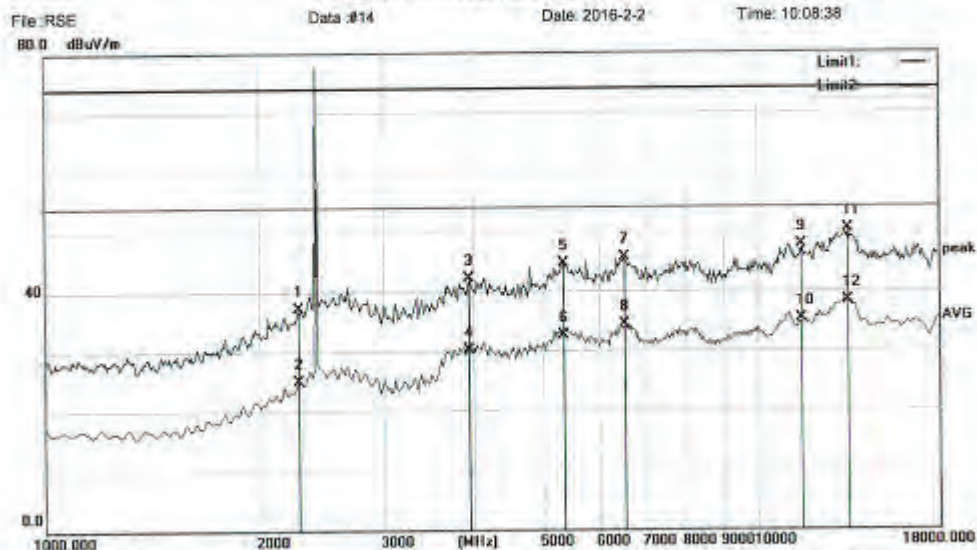
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Radiated Emission Measurement



Site Chamber #1
Limit: (RE)FCC PART 15 class B 3m_PEAK
EUT: Bluetooth Rock Speaker
M/N: ITSBO-358P
Mode: GFSK 2402
Note:

Polarization: **Vertical**
Power: AC 120V/60Hz
Distance: 3m
Temperature: 17.5
Humidity: 56 %
Test Result: Pass

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		2270.193	30.39	6.72	37.11	74.00	-36.89	peak			
2		2270.193	18.21	6.72	24.93	54.00	-29.07	AVG			
3		3957.869	31.80	10.35	42.15	74.00	-31.85	peak			
4		3957.869	19.67	10.35	30.02	54.00	-23.98	AVG			
5		5348.340	32.20	12.22	44.42	74.00	-29.58	peak			
6		5348.340	20.25	12.22	32.47	54.00	-21.53	AVG			
7		6527.098	32.15	13.28	45.43	74.00	-28.57	peak			
8		6527.098	21.06	13.28	34.34	54.00	-19.66	AVG			
9		11592.18	30.03	17.40	47.43	74.00	-26.57	peak			
10		11592.18	17.76	17.40	35.16	54.00	-18.84	AVG			
11		13444.30	29.80	20.25	50.05	74.00	-23.95	peak			
12	*	13444.30	17.87	20.25	38.12	54.00	-15.88	AVG			

*:Maximum data x:Over limit l:over margin

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Radiated Emission Measurement

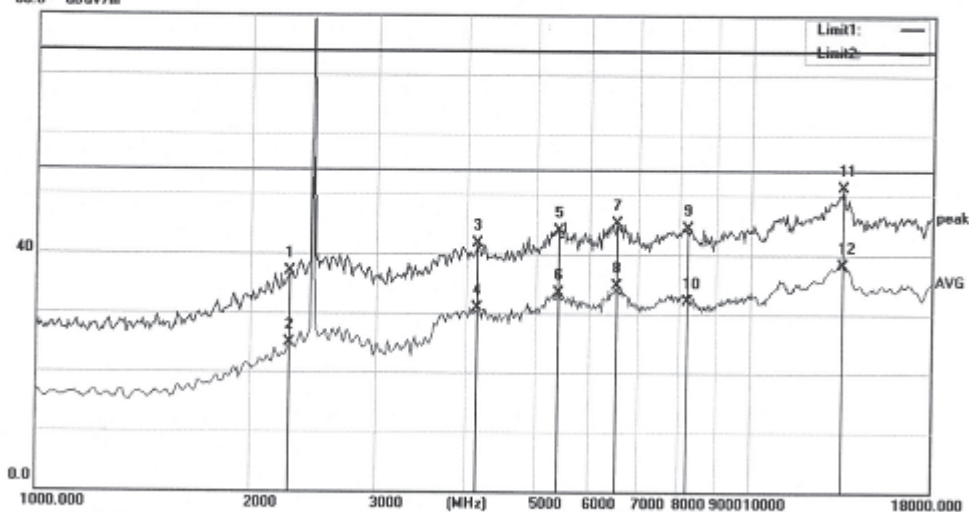
File :RSE

Data #15

Date: 2016-2-2

Time: 13:47:58

80.0 dBuV/m



Site Chamber #1

Polarization: **Horizontal**

Temperature: 17.5

Limit: (RE)FCC PART 15 class B 3m_PEAK

Power: AC 120V/60Hz

Humidity: 56 %

EUT: Bluetooth Rock Speaker

Distance: 3m

Test Result: Pass

M/N: ITSBO-358P

Mode: GFSK 2441

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2270.193	30.18	6.72	36.90	74.00	-37.10	peak		
2		2270.193	18.24	6.72	24.96	54.00	-29.04	AVG		
3		4145.510	31.26	10.48	41.74	74.00	-32.26	peak		
4		4145.510	20.33	10.48	30.81	54.00	-23.19	AVG		
5		5398.117	31.62	12.37	43.99	74.00	-30.01	peak		
6		5398.117	21.15	12.37	33.52	54.00	-20.48	AVG		
7		6527.098	31.82	13.28	45.10	74.00	-28.90	peak		
8		6527.098	21.38	13.28	34.66	54.00	-19.34	AVG		
9		8190.138	30.56	13.82	44.38	74.00	-29.62	peak		
10		8190.138	18.36	13.82	32.18	54.00	-21.82	AVG		
11		13444.30	30.86	20.25	51.11	74.00	-22.89	peak		
12	*	13444.30	17.88	20.25	38.13	54.00	-15.87	AVG		

*:Maximum data x:Over limit !:over margin

File :RSE\Data :#15

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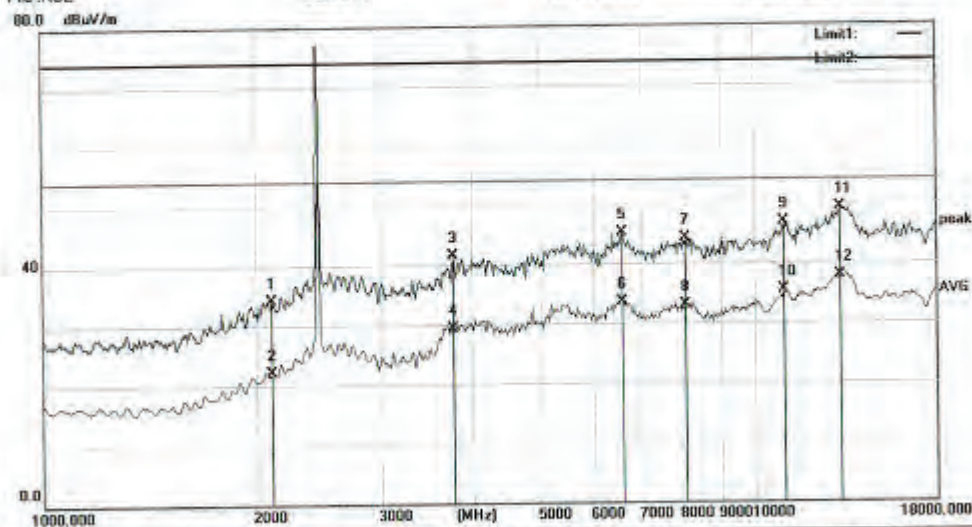
Radiated Emission Measurement

File:RSE

Data #16

Date: 2016-2-2

Time: 13:50:24



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: GFSK 2441

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBm	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2098.286	28.41	5.74	34.15	74.00	-39.85	peak		
2		2098.286	16.44	5.74	22.18	54.00	-31.82	AVG		
3		3778.722	32.22	9.28	41.50	74.00	-32.50	peak		
4		3778.722	20.10	9.28	29.38	54.00	-24.62	AVG		
5		6557.402	31.79	13.26	45.05	74.00	-28.95	peak		
6		6557.402	20.30	13.26	33.56	54.00	-20.44	AVG		
7		8039.768	30.19	13.94	44.13	74.00	-29.87	peak		
8		8039.768	18.93	13.94	32.87	54.00	-21.13	AVG		
9		11016.33	29.74	16.96	46.70	74.00	-27.30	peak		
10		11016.33	18.38	16.96	35.34	54.00	-18.66	AVG		
11		13197.49	29.03	19.98	49.01	74.00	-24.99	peak		
12	*	13197.49	17.69	19.98	37.67	54.00	-16.33	AVG		

*:Maximum data x:Over limit !:over margin

File :RSEData #16

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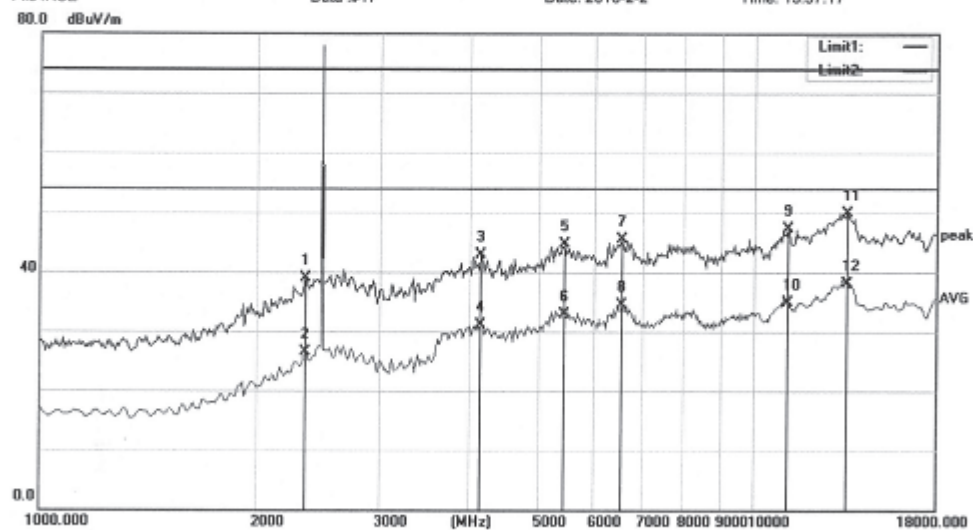
Radiated Emission Measurement

File :RSE

Data :#17

Date: 2016-2-2

Time: 13:57:17



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: GFSK 2480

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2345.009	31.86	7.14	39.00	74.00	-35.00	peak		
2		2345.009	19.39	7.14	26.53	54.00	-27.47	AVG		
3		4145.510	32.36	10.48	42.84	74.00	-31.16	peak		
4		4145.510	20.54	10.48	31.02	54.00	-22.98	AVG		
5		5423.179	32.23	12.44	44.67	74.00	-29.33	peak		
6		5423.179	20.54	12.44	32.98	54.00	-21.02	AVG		
7		6527.098	32.30	13.28	45.58	74.00	-28.42	peak		
8		6527.098	21.19	13.28	34.47	54.00	-19.53	AVG		
9		11170.48	30.17	17.10	47.27	74.00	-26.73	peak		
10		11170.48	17.78	17.10	34.88	54.00	-19.12	AVG		
11		13506.72	29.61	20.28	49.89	74.00	-24.11	peak		
12	*	13506.72	17.76	20.28	38.04	54.00	-15.96	AVG		

*:Maximum data x:Over limit !:over margin

File :RSE\Data :#17

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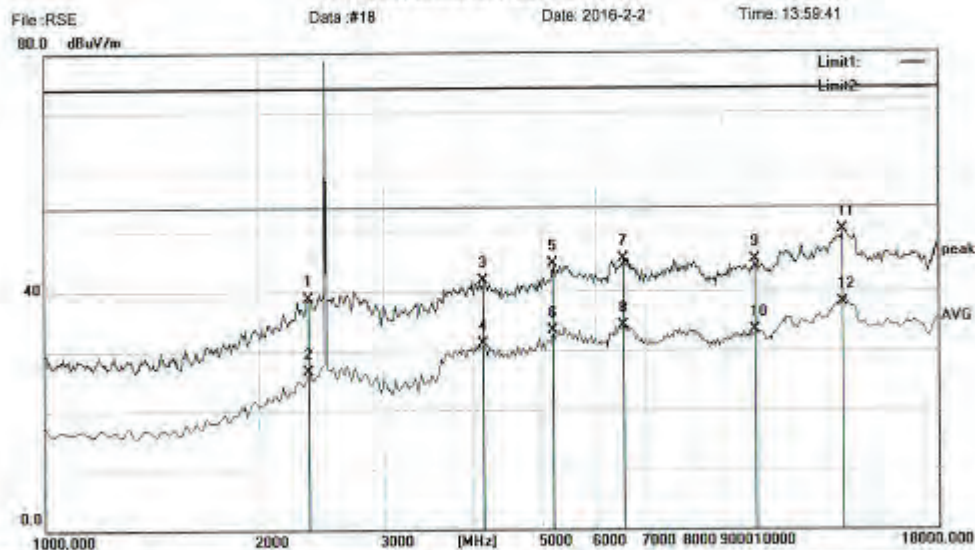
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Radiated Emission Measurement



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: GFSK 2480

Note:

Polarization: **Horizontal**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBm	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		2345.009	31.63	7.14	38.77	74.00	-35.23	peak			
2		2345.009	19.38	7.14	26.52	54.00	-27.48	AVG			
3		4145.510	31.25	10.48	41.73	74.00	-32.27	peak			
4		4145.510	20.61	10.48	31.09	54.00	-22.91	AVG			
5		5201.745	32.62	11.79	44.41	74.00	-29.59	peak			
6		5201.745	21.46	11.79	33.25	54.00	-20.75	AVG			
7		6527.098	32.08	13.28	45.36	74.00	-28.64	peak			
8		6527.098	20.77	13.28	34.05	54.00	-19.95	AVG			
9		9949.029	29.66	15.38	45.04	74.00	-28.96	peak			
10		9949.029	17.86	15.38	33.24	54.00	-20.76	AVG			
11		13258.77	30.03	20.05	50.08	74.00	-23.92	peak			
12	*	13258.77	17.93	20.05	37.98	54.00	-16.02	AVG			

*:Maximum data x:Over limit !:over margin

File:RSE\Data:#18

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Radiated Emission Measurement

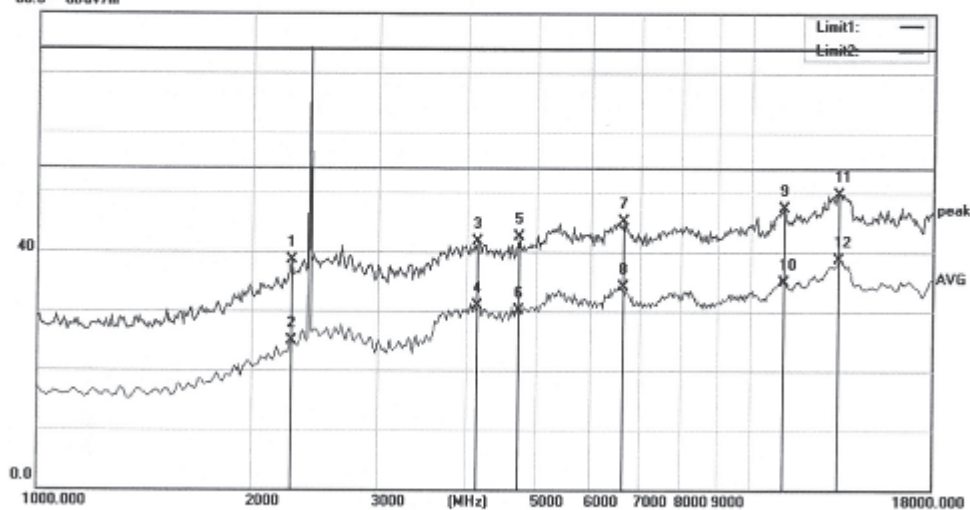
File :RSE

Data :#19

Date: 2016-2-2

Time: 14:01:42

80.0 dBuV/m



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: 8DPSK 2402

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2270.193	31.83	6.72	38.55	74.00	-35.45	peak		
2		2270.193	18.19	6.72	24.91	54.00	-29.09	AVG		
3		4145.510	31.20	10.48	41.68	74.00	-32.32	peak		
4		4145.510	20.36	10.48	30.84	54.00	-23.16	AVG		
5		4741.502	31.73	10.69	42.42	74.00	-31.58	peak		
6		4741.502	19.36	10.69	30.05	54.00	-23.95	AVG		
7		6618.432	31.91	13.25	45.16	74.00	-28.84	peak		
8		6618.432	20.78	13.25	34.03	54.00	-19.97	AVG		
9		11118.86	30.18	17.05	47.23	74.00	-26.77	peak		
10		11170.48	17.75	17.10	34.85	54.00	-19.15	AVG		
11		13320.32	29.66	20.11	49.77	74.00	-24.23	peak		
12	*	13320.32	18.51	20.11	38.62	54.00	-15.38	AVG		

*:Maximum data x:Over limit !:over margin

File :RSE\Data :#19

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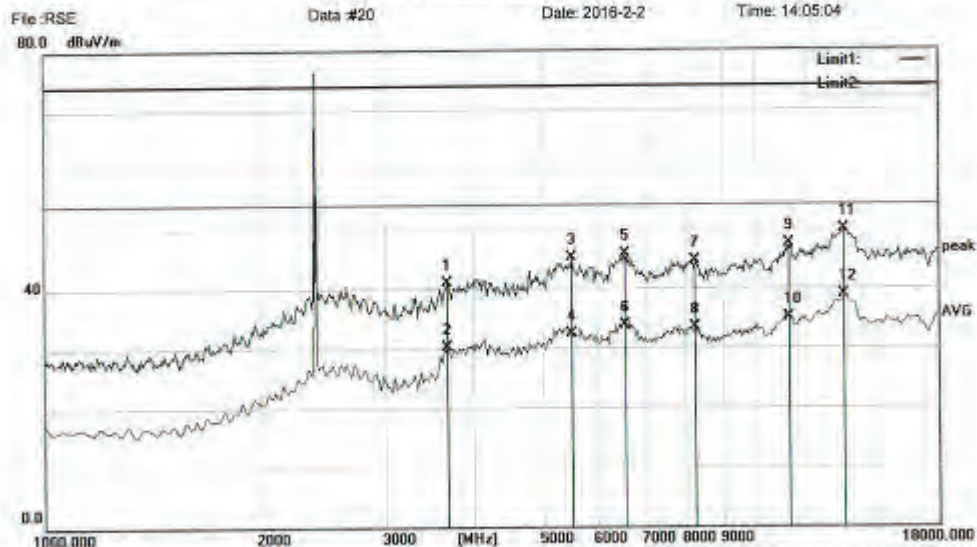
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Radiated Emission Measurement



Site Chamber #1
Limit: (RE)FCC PART 15 class B 3m_PEAK
EUT: Bluetooth Rock Speaker
M/N: ITSBO-358P
Mode: 8DPSK 2402
Note:

Polarization: **Horizontal**
Power: AC 120V/60Hz
Distance: 3m
Temperature: 17.5
Humidity: 56 %
Test Result: Pass

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBm	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		3692.212	32.09	8.77	40.86	74.00	-33.14	peak		
2		3692.212	21.28	8.77	30.05	54.00	-23.95	AVG		
3		5499.066	32.44	12.66	45.10	74.00	-28.90	peak		
4		5499.066	19.62	12.66	32.28	54.00	-21.72	AVG		
5		6557.402	32.36	13.26	45.62	74.00	-28.38	peak		
6		6557.402	20.54	13.26	33.80	54.00	-20.20	AVG		
7		8228.163	30.79	13.79	44.58	74.00	-29.42	peak		
8		8228.163	19.44	13.79	33.23	54.00	-20.77	AVG		
9		11118.86	30.25	17.05	47.30	74.00	-26.70	peak		
10		11170.48	17.79	17.10	34.89	54.00	-19.11	AVG		
11		13320.32	29.55	20.11	49.66	74.00	-24.34	peak		
12	*	13320.32	18.58	20.11	38.69	54.00	-15.31	AVG		

*:Maximum data x:Over limit l:over margin

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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY CO.,LTD

Tel (86)020-38699960

Http://www.grgtest.com

Radiated Emission Measurement

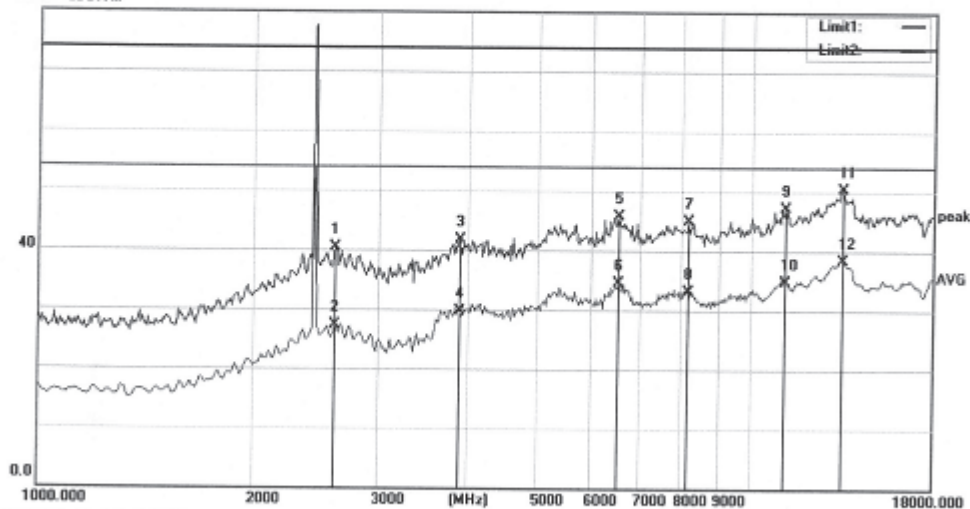
File :RSE

Data :#21

Date: 2016-2-2

Time: 14:07:06

90.0 dBuV/m



Site Chamber #1

Polarization: **Horizontal**

Temperature: 17.5

Limit: (RE)FCC PART 15 class B 3m_PEAK

Power: AC 120V/60Hz

Humidity: 56 %

EUT: Bluetooth Rock Speaker

Distance: 3m

Test Result: Pass

M/N: ITSBO-358P

Mode: 8DPSK 2441

Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBm	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	2608.630	32.47	7.93	40.40	74.00	-33.60	peak			
2	2608.630	19.34	7.93	27.27	54.00	-26.73	AVG			
3	3885.213	31.81	9.91	41.72	74.00	-32.28	peak			
4	3885.213	19.83	9.91	29.74	54.00	-24.26	AVG			
5	6527.098	32.52	13.28	45.80	74.00	-28.20	peak			
6	6527.098	21.27	13.28	34.55	54.00	-19.45	AVG			
7	8152.289	30.97	13.85	44.82	74.00	-29.18	peak			
8	8152.289	19.35	13.85	33.20	54.00	-20.80	AVG			
9	11118.86	30.02	17.05	47.07	74.00	-26.93	peak			
10	11170.48	17.68	17.10	34.78	54.00	-19.22	AVG			
11	13382.17	30.13	20.18	50.31	74.00	-23.69	peak			
12 *	13382.17	18.16	20.18	38.34	54.00	-15.66	AVG			

*:Maximum data x:Over limit l:over margin

File :RSE\Data :#21

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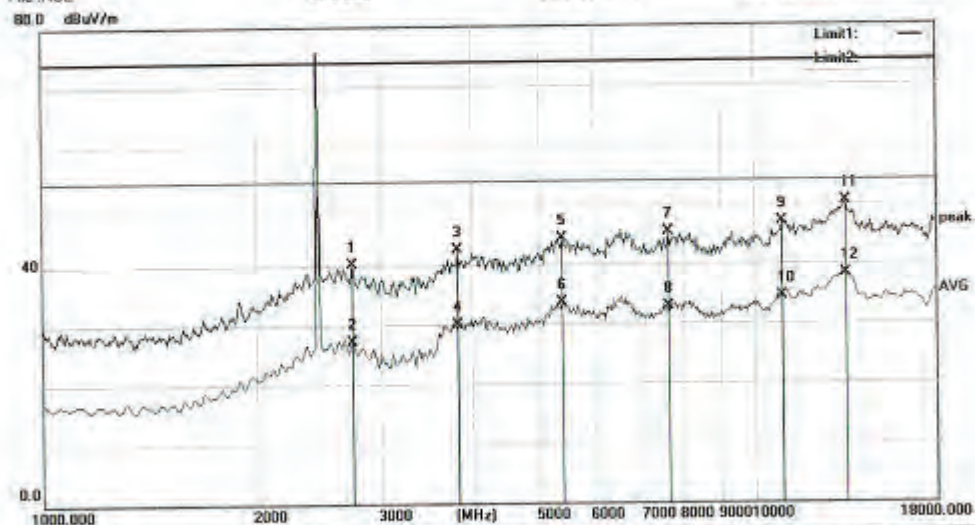
Radiated Emission Measurement

File :RSE

Data :#22

Date: 2016-2-2

Time: 14:06:59



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: 8DPSK 2441

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBm	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2732.304	32.24	7.90	40.14	74.00	-33.86	peak		
2		2732.304	19.17	7.90	27.07	54.00	-26.93	AVG		
3		3831.597	32.82	9.59	42.41	74.00	-31.59	peak		
4		3831.597	20.25	9.59	29.84	54.00	-24.16	AVG		
5		5373.171	32.03	12.29	44.32	74.00	-29.68	peak		
6		5373.171	21.27	12.29	33.56	54.00	-20.44	AVG		
7		7605.097	31.06	14.17	45.23	74.00	-28.77	peak		
8		7605.097	18.49	14.17	32.66	54.00	-21.34	AVG		
9		10965.42	30.13	16.82	46.95	74.00	-27.05	peak		
10		10965.42	17.52	16.82	34.34	54.00	-19.66	AVG		
11		13444.30	30.11	20.25	50.36	74.00	-23.64	peak		
12	*	13444.30	17.87	20.25	38.12	54.00	-15.88	AVG		

*:Maximum data x:Over limit !:over margin

File :RSE\Data :#22

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Radiated Emission Measurement

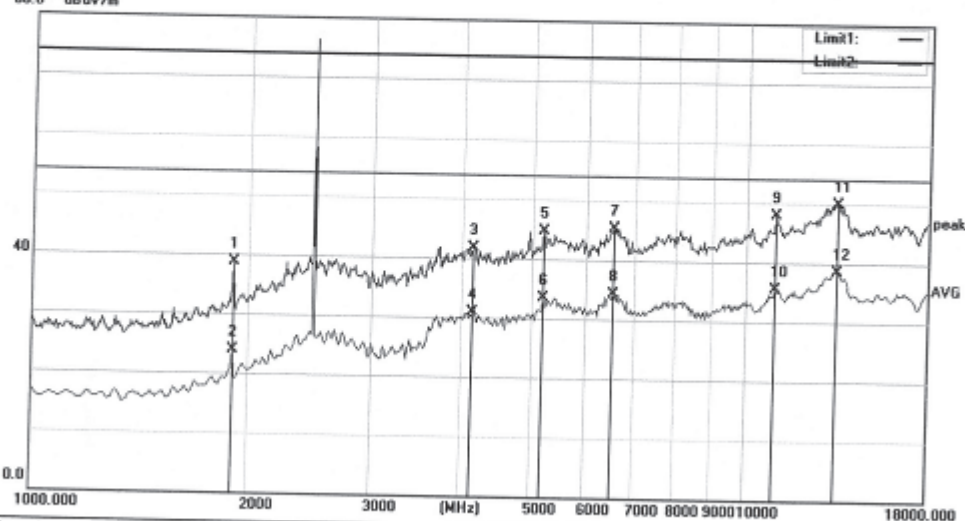
File :RSE

Data :#23

Date: 2016-2-2

Time: 14:10:49

80.0 dBuV/m



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: 8DPSK 2480

Note:

Polarization: **Horizontal**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	1903.794	34.30	4.47	38.77	74.00	-35.23	peak			
2	1903.794	19.42	4.47	23.89	54.00	-30.11	AVG			
3	4145.510	31.25	10.48	41.73	74.00	-32.27	peak			
4	4145.510	20.45	10.48	30.93	54.00	-23.07	AVG			
5	5201.745	32.88	11.79	44.67	74.00	-29.33	peak			
6	5201.745	21.68	11.79	33.47	54.00	-20.53	AVG			
7	6527.098	31.95	13.28	45.23	74.00	-28.77	peak			
8	6527.098	21.07	13.28	34.35	54.00	-19.65	AVG			
9	11016.33	31.00	16.96	47.96	74.00	-26.04	peak			
10	11016.33	18.50	16.96	35.46	54.00	-18.54	AVG			
11	13382.17	29.65	20.18	49.83	74.00	-24.17	peak			
12 *	13382.17	18.32	20.18	38.50	54.00	-15.50	AVG			

*:Maximum data x:Over limit !:over margin

File :RSE\Data :#23

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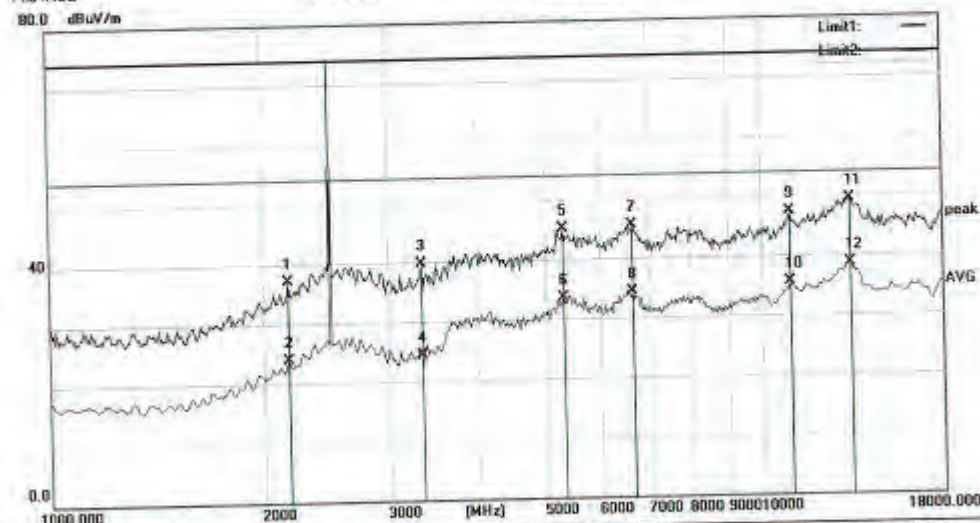
Radiated Emission Measurement

File:RSE

Data: #24

Date: 2016-2-2

Time: 14:18:31



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: 8DPSK 2480

Note:

Polarization: **Vertical**

Temperature: 17.5

Power: AC 120V/60Hz

Humidity: 56 %

Distance: 3m

Test Result: Pass

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1	2167.436	31.02	6.13	37.15	74.00	-36.85	peak		
2	2167.436	17.85	6.13	23.98	54.00	-30.02	AVG		
3	3334.496	32.22	7.47	39.69	74.00	-34.31	peak		
4	3334.496	16.81	7.47	24.28	54.00	-29.72	AVG		
5	5299.021	32.99	12.08	45.07	74.00	-28.93	peak		
6	5299.021	21.39	12.08	33.47	54.00	-20.53	AVG		
7	6618.432	32.20	13.25	45.45	74.00	-28.55	peak		
8	6618.432	21.06	13.25	34.31	54.00	-19.69	AVG		
9	11016.33	30.34	16.96	47.30	74.00	-26.70	peak		
10	11016.33	18.61	16.96	35.57	54.00	-18.43	AVG		
11	13382.17	29.11	20.18	49.29	74.00	-24.71	peak		
12 *	13382.17	18.33	20.18	38.51	54.00	-15.49	AVG		

*:Maximum data x:Over limit l:over margin

File:RSE\Data: #24

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Radiated Emission Measurement

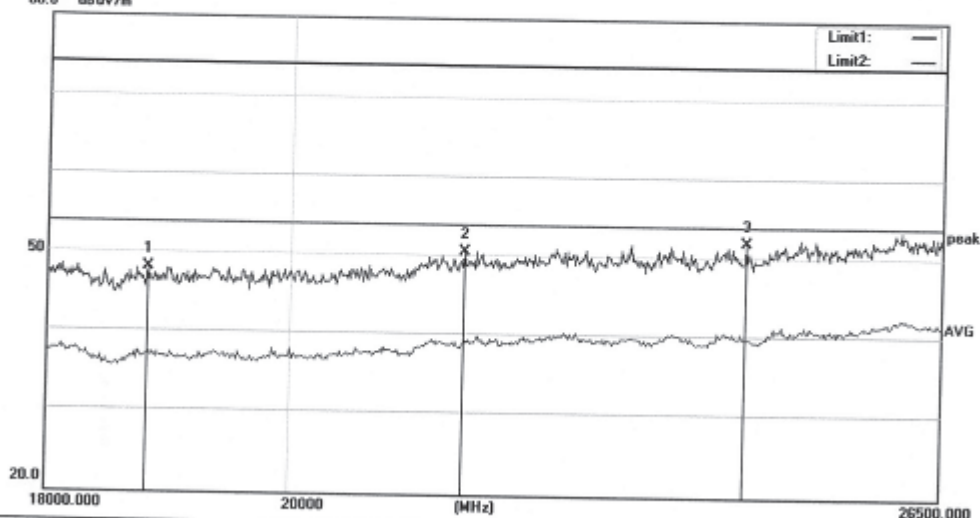
File :RSE

Data :#25

Date: 2016-2-2

Time: 14:20:53

80.0 dBuV/m



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: GFSK 2402

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	18798.17	28.36	19.85	48.21	74.00	-25.79	peak			
2	21557.88	29.72	21.03	50.75	74.00	-23.25	peak			
3 *	24342.60	29.30	22.69	51.99	74.00	-22.01	peak			

*:Maximum data x:Over limit !:over margin

File :RSEData :#25

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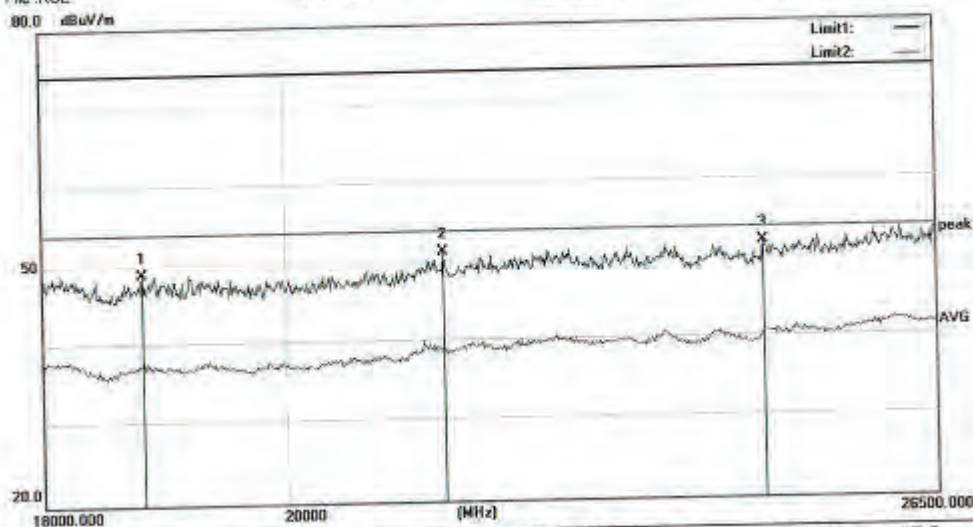
Radiated Emission Measurement

File :RSE

Data :#26

Date: 2016-2-2

Time: 14:23:16



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: GFSK 2402

Note:

Polarization: **Horizontal**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		18798.17	29.12	19.85	48.97	74.00	-25.03	peak		
2		21424.68	30.35	21.01	51.36	74.00	-22.64	peak		
3	*	24615.71	29.28	22.84	52.12	74.00	-21.88	peak		

*:Maximum data x:Over limit !:over margin

File :RSE\Data :#26

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Radiated Emission Measurement

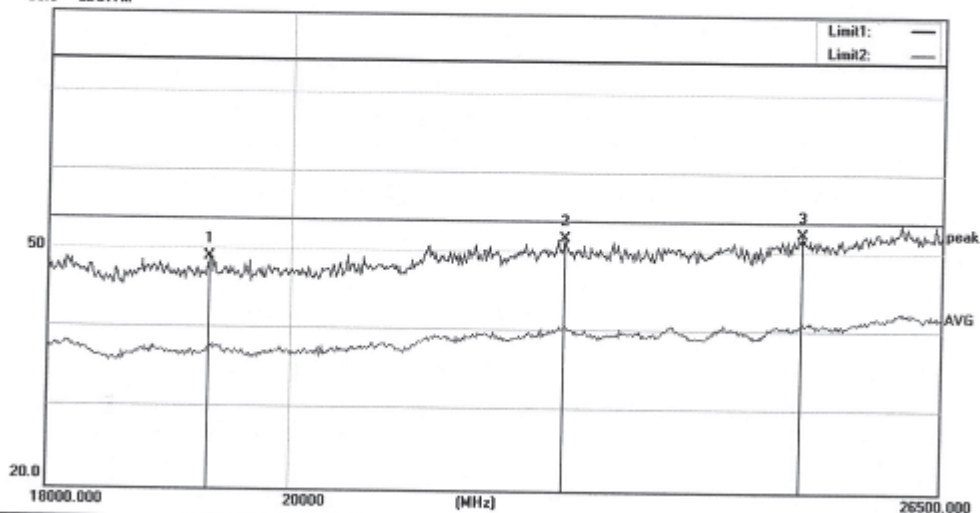
File :RSE

Data :#27

Date: 2016-2-2

Time: 14:26:41

80.0 dBuV/m



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: GFSK 2441

Note:

Polarization: **Horizontal**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		19305.93	29.38	19.75	49.13	74.00	-24.87	peak		
2		22513.83	30.44	21.43	51.87	74.00	-22.13	peak		
3	*	24938.21	29.41	23.01	52.42	74.00	-21.58	peak		

*:Maximum data x:Over limit l:over margin

File :RSE\Data :#27

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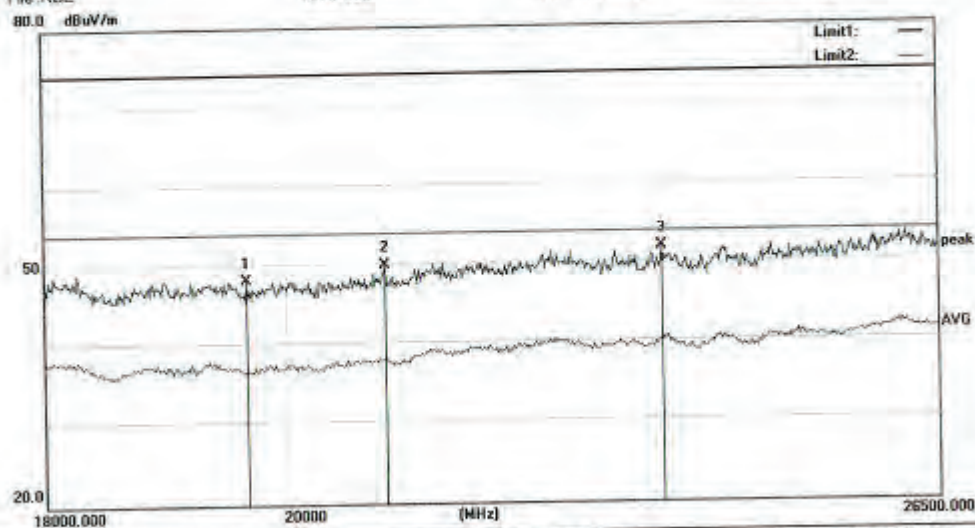
Radiated Emission Measurement

File: RSE

Data: #28

Date: 2016-2-2

Time: 14:31:59



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: GFSK 2441

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBm	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		19656.09	28.47	19.84	48.31	74.00	-25.69	peak		
2		20861.19	29.28	20.81	50.09	74.00	-23.91	peak		
3	*	23526.74	29.87	22.14	52.01	74.00	-21.99	peak		

*:Maximum data x:Over limit !:over margin

File: RSE\Data: #28

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Radiated Emission Measurement

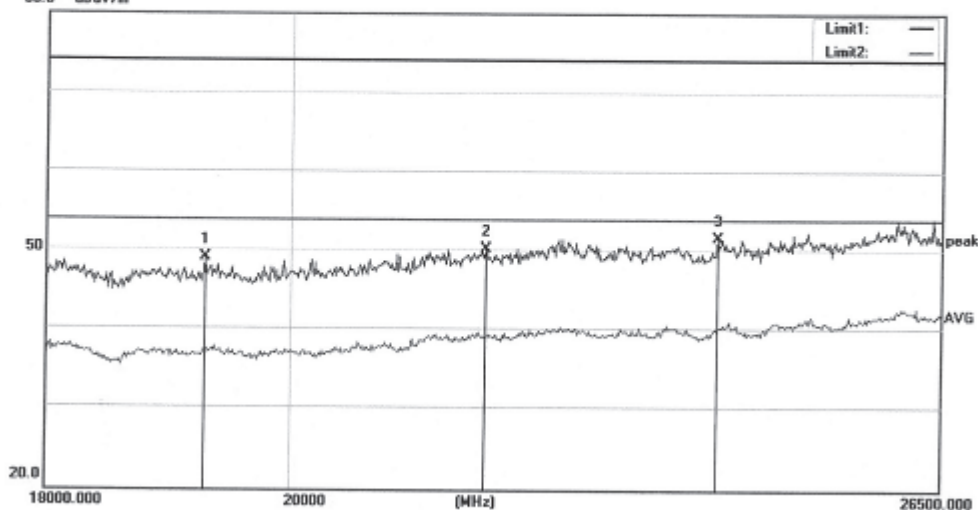
File :RSE

Data :#29

Date: 2016-2-2

Time: 14:34:16

80.0 dBuV/m



Site Chamber #1

Polarization: **Vertical**

Temperature: 17.5

Limit: (RE)FCC PART 15 class B 3m_PEAK

Power: AC 120V/60Hz

Humidity: 56 %

EUT: Bluetooth Rock Speaker

Distance: 3m

Test Result: Pass

M/N: ITSBO-358P

Mode: GFSK 2480

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		19270.06	29.42	19.75	49.17	74.00	-24.83	peak			
2		21772.74	29.38	21.06	50.44	74.00	-23.56	peak			
3	*	24057.61	29.24	22.53	51.77	74.00	-22.23	peak			

*:Maximum data x:Over limit !:over margin

File :RSE\Data :#29

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Http://www.grgtest.com

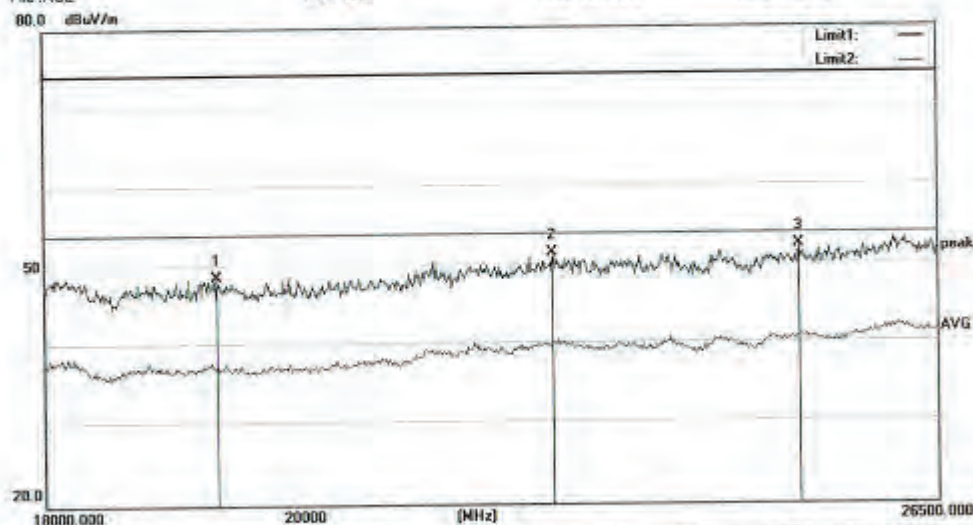
Radiated Emission Measurement

File :RSE

Data :#30

Date: 2016-2-2

Time: 14:37:31



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: GFSK 2480

Note:

Polarization: **Horizontal**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBm	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		19401.90	28.90	19.78	48.68	74.00	-25.32	peak			
2		22444.16	30.13	21.39	51.52	74.00	-22.48	peak			
3	*	24969.15	29.47	23.03	52.50	74.00	-21.50	peak			

*:Maximum data x:Over limit !:over margin

File :RSE\Data :#30

Page: 1

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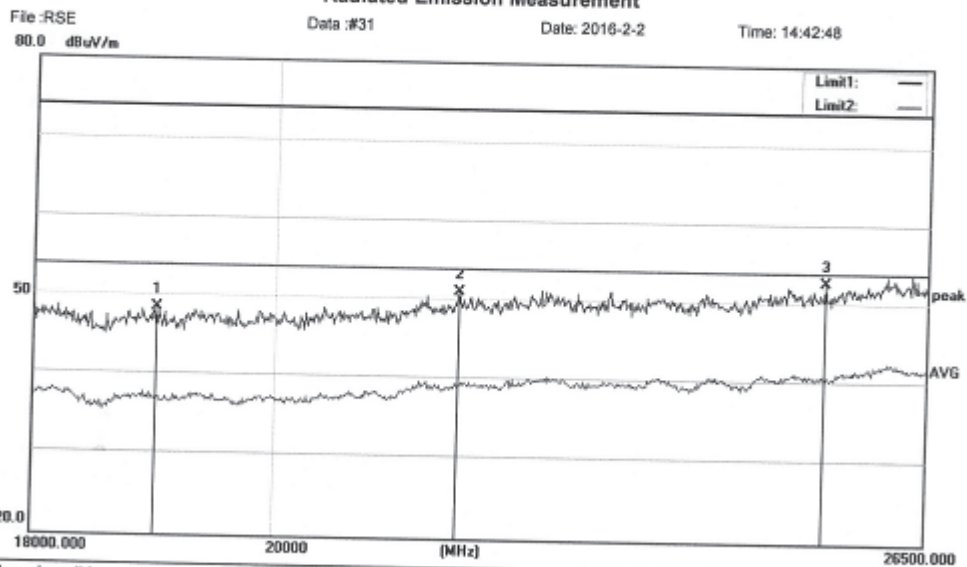
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GRGT EST GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY CO.,LTD
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Radiated Emission Measurement



Site Chamber #1
Limit: (RE)FCC PART 15 class B 3m_PEAK
EUT: Bluetooth Rock Speaker
M/N: ITSBO-358P
Mode: 8DPSK 2402
Note:

Polarization: **Horizontal**
Power: AC 120V/60Hz
Distance: 3m
Temperature: 17.5
Humidity: 56 %
Test Result: Pass

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		18985.52	28.93	19.70	48.63	74.00	-25.37	peak		
2		21638.21	30.04	21.05	51.09	74.00	-22.91	peak		
3	*	25343.36	29.70	23.13	52.83	74.00	-21.17	peak		

*:Maximum data x:Over limit !:over margin

File :RSEData :#31

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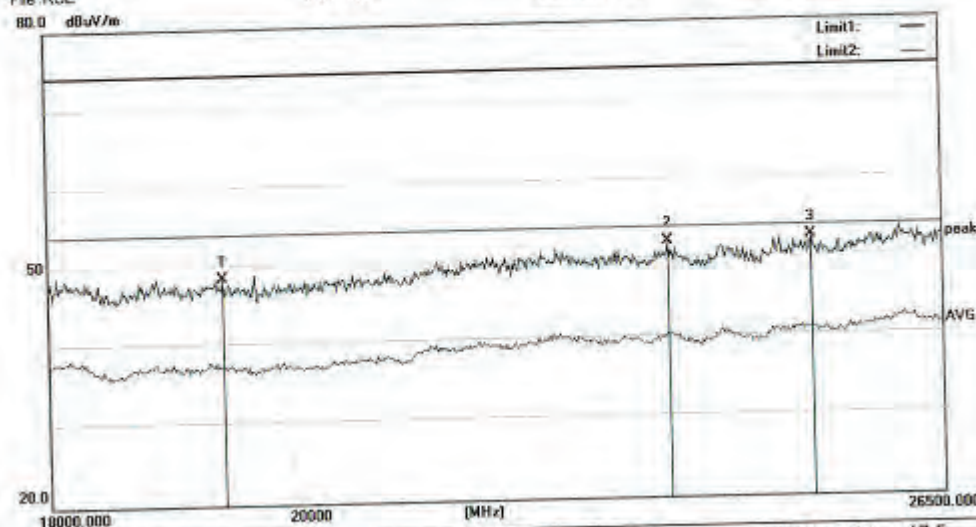
Radiated Emission Measurement

File:RSE

Data: #32

Date: 2016-2-2

Time: 14:46:08



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: 8DPSK 2402

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		19413.93	28.86	19.78	48.64	74.00	-25.36	peak		
2		23555.92	29.99	22.16	52.15	74.00	-21.85	peak		
3	*	25062.18	29.53	23.07	52.60	74.00	-21.40	peak		

*:Maximum data x:Over limit !:over margin

File:RSE\Data: #32

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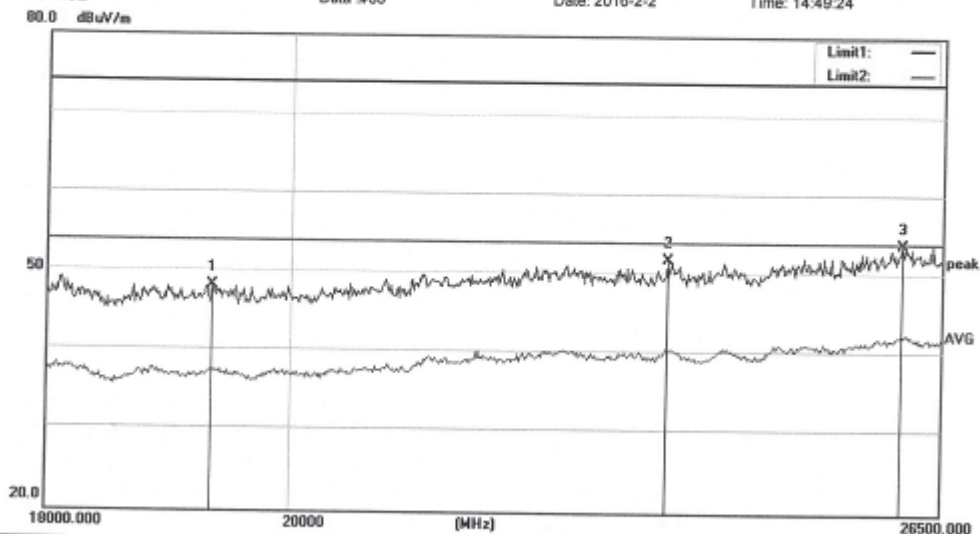
Radiated Emission Measurement

File:RSE

Data: #33

Date: 2016-2-2

Time: 14:49:24



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: 8DPSK 2441

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		19317.90	28.54	19.76	48.30	74.00	-25.70	peak		
2		23541.32	29.70	22.15	51.85	74.00	-22.15	peak		
3	*	26044.05	30.44	23.32	53.76	74.00	-20.24	peak		

*:Maximum data x:Over limit l:over margin

File :RSEData :#33

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Radiated Emission Measurement

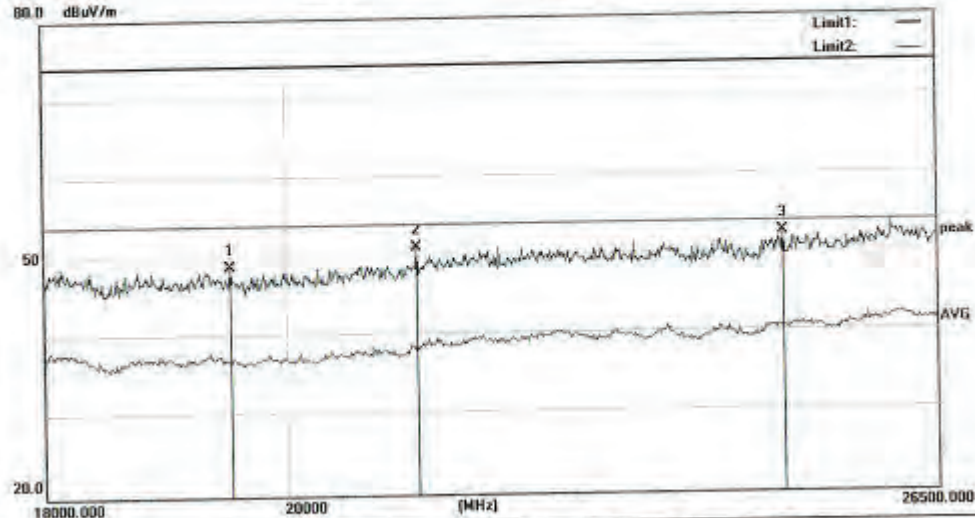
File :RSE

Data :#34

Date: 2016-2-2

Time: 14:52:38

00.0 dBuV/m



Site Chamber #1

Limit: (RE)FCC PART 15 class B 3m_PEAK

EUT: Bluetooth Rock Speaker

M/N: ITSBO-358P

Mode: 8DPSK 2441

Note:

Polarization: **Horizontal**

Power: AC 120V/60Hz

Distance: 3m

Temperature: 17.5

Humidity: 56 %

Test Result: Pass

No.	Mk.	Freq MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		19522.53	29.02	19.80	48.82	74.00	-25.18	peak		
2		21160.72	30.20	20.97	51.17	74.00	-22.83	peak		
3	*	24799.49	29.74	22.94	52.68	74.00	-21.32	peak		

*:Maximum data x:Over limit l:over margin

File :RSE\Data :#34

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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY CO.,LTD
Tel (86)020-38699960
[Http://www.grgtest.com](http://www.grgtest.com)

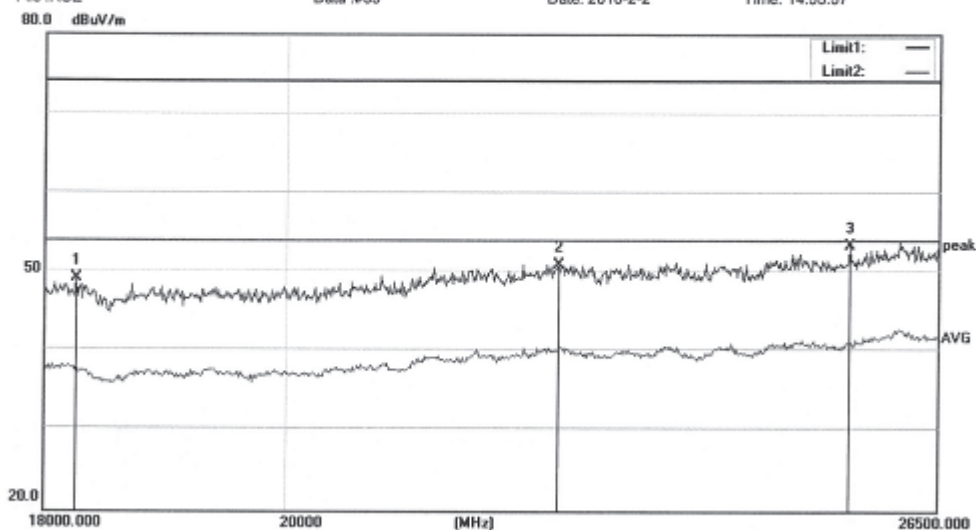
Radiated Emission Measurement

File :RSE

Data :#35

Date: 2016-2-2

Time: 14:55:57



Site Chamber #1

Polarization: *Horizontal*

Temperature: 17.5

Limit: (RE)FCC PART 15 class B 3m_PEAK

Power: AC 120V/60Hz

Humidity: 56 %

EUT: Bluetooth Rock Speaker

Distance: 3m

Test Result: Pass

M/N: ITSBO-358P

Mode: 8DPSK 2480

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		18247.13	28.88	20.29	49.17	74.00	-24.83	peak		
2		22485.93	29.55	21.42	50.97	74.00	-23.03	peak		
3	*	25500.94	30.22	23.16	53.38	74.00	-20.62	peak		

*:Maximum data x:Over limit !:over margin

File :RSE\Data :#35

Page: 1

Prüfbericht - Nr.:

16073772 001

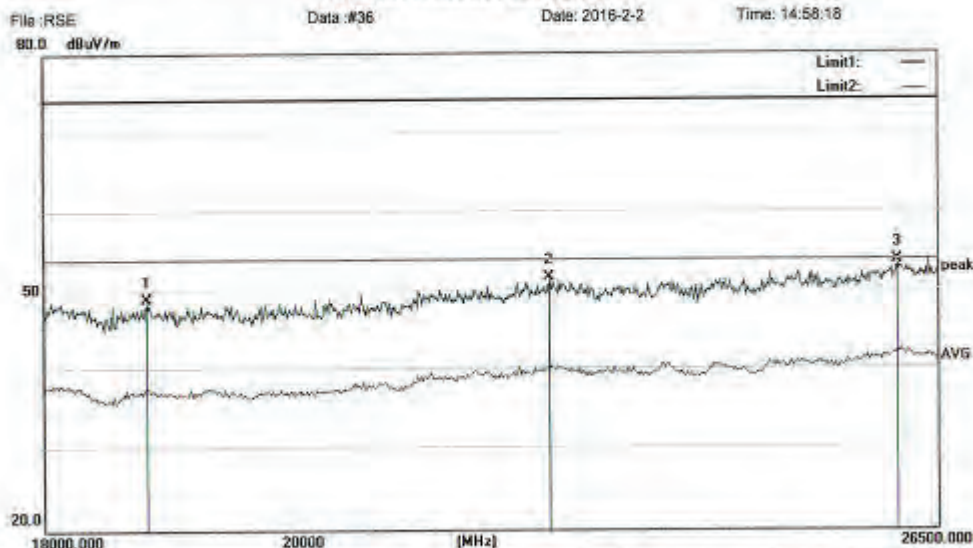
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Radiated Emission Measurement



Site Chamber #1
Limit: (RE)FCC PART 15 class B 3m_PEAK
EUT: Bluetooth Rock Speaker
M/N: ITSBO-358P
Mode: 8DPSK 2480
Note:

Polarization: **Vertical**
Power: AC 120V/60Hz
Distance: 3m
Temperature: 17.5
Humidity: 56 %
Test Result: Pass

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		18821.49	29.21	19.83	49.04	74.00	-24.96	peak		
2		22402.47	30.39	21.36	51.75	74.00	-22.25	peak		
3	*	26044.05	30.52	23.32	53.84	74.00	-20.16	peak		

*:Maximum data x:Over limit l:over margin

File :RSEData :#36

Page: 1

Prüfbericht - Nr.:

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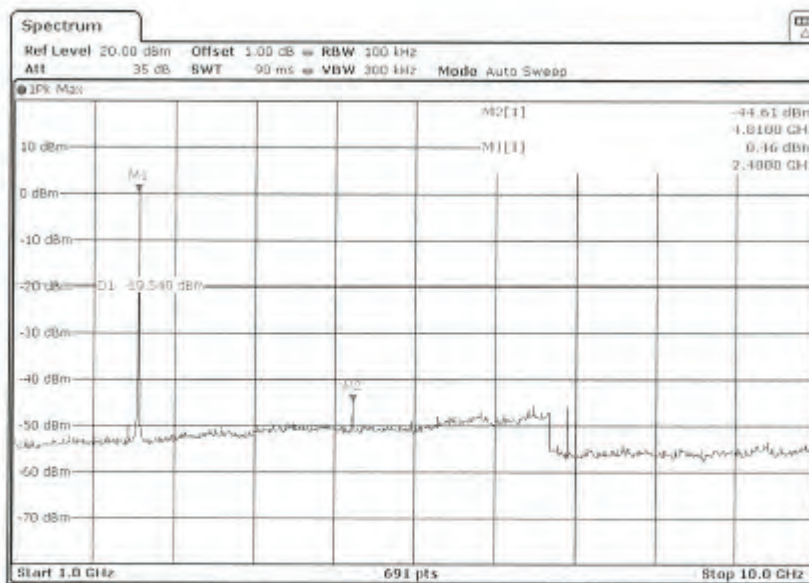
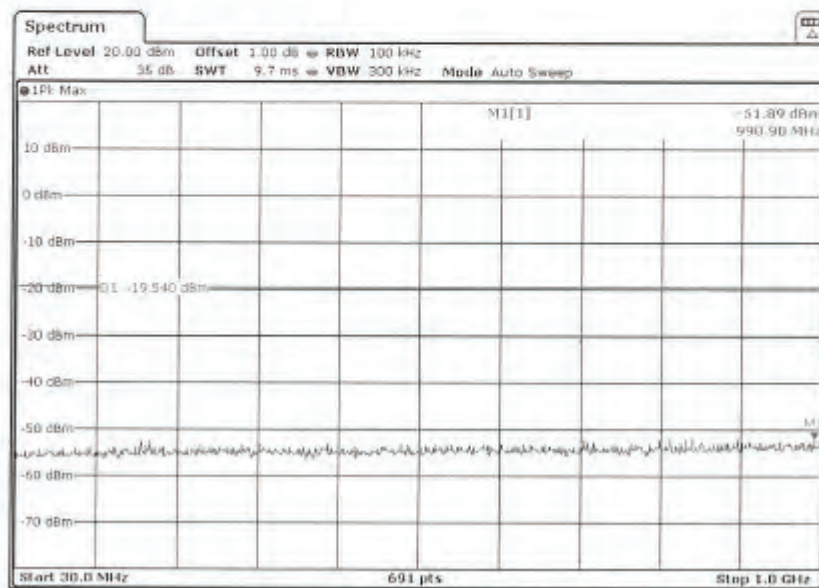
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Conducted Spurious Emission

2402MHz, 8DPSK



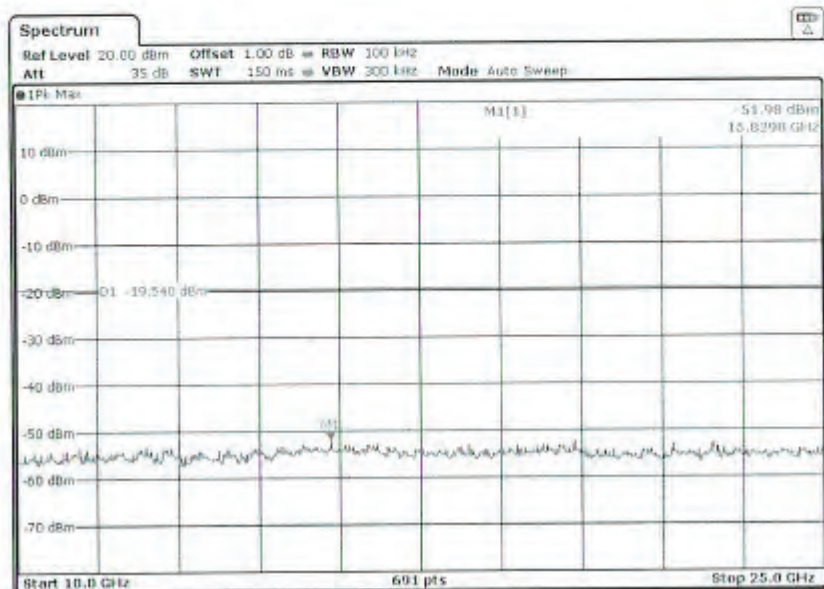
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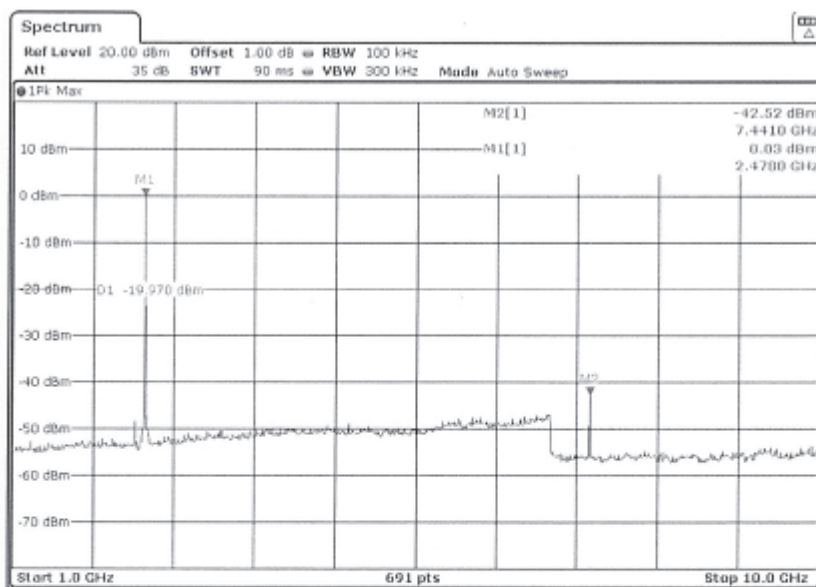
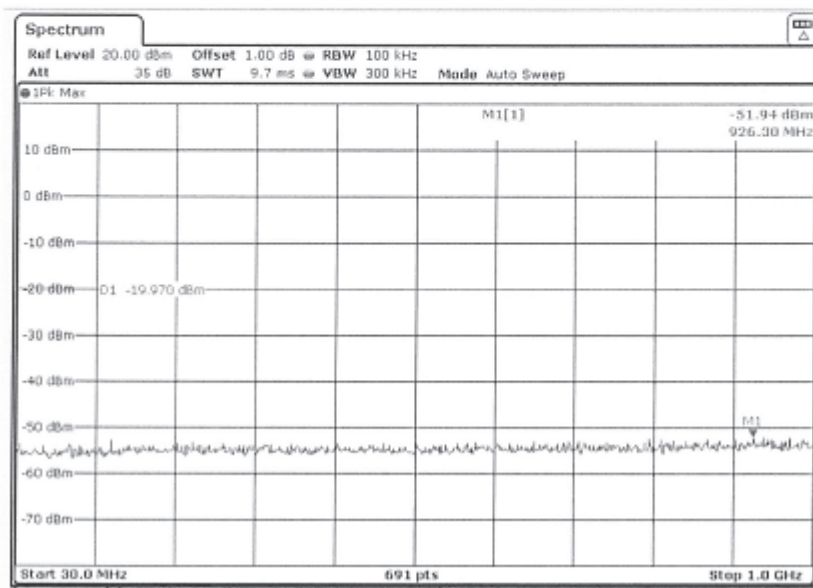
16073772 001

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2480MHz, GFSK



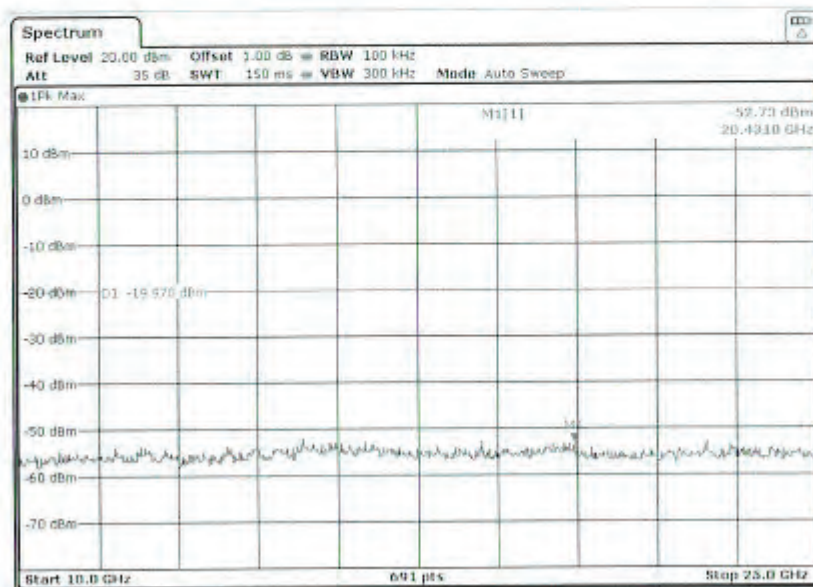
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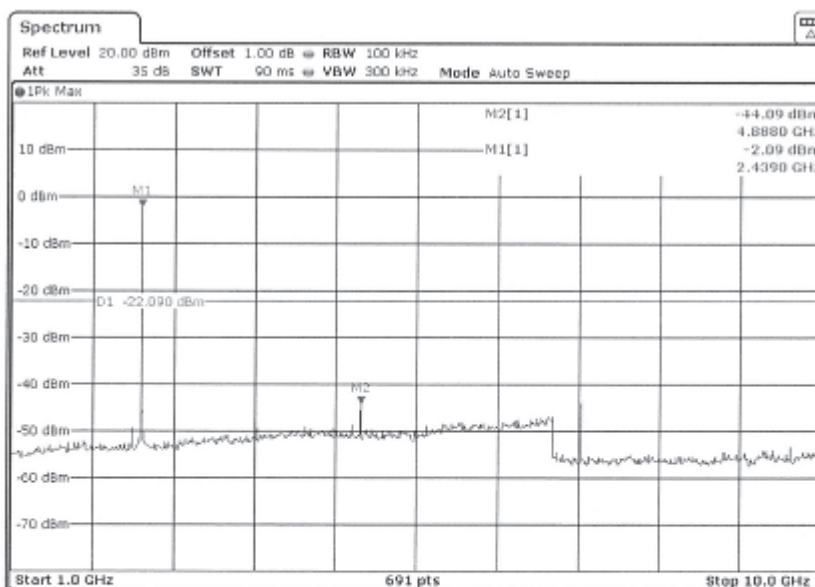
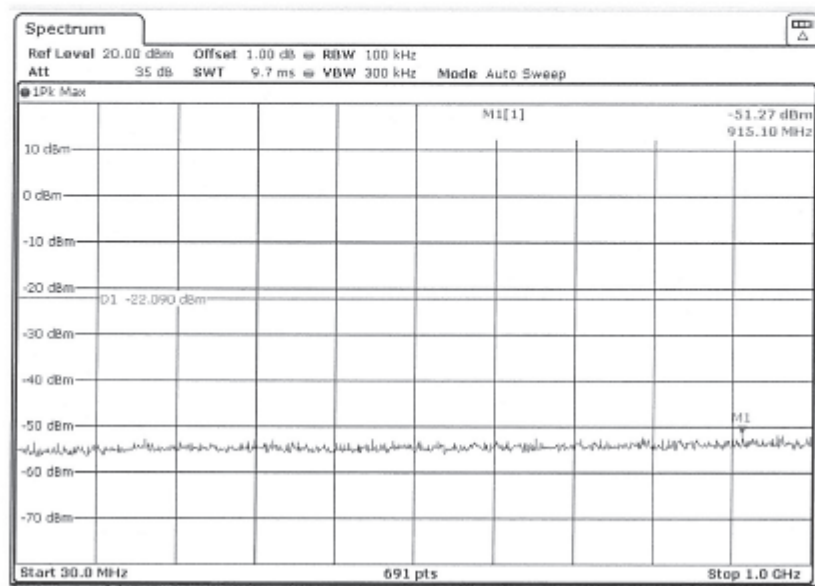
16073772 001

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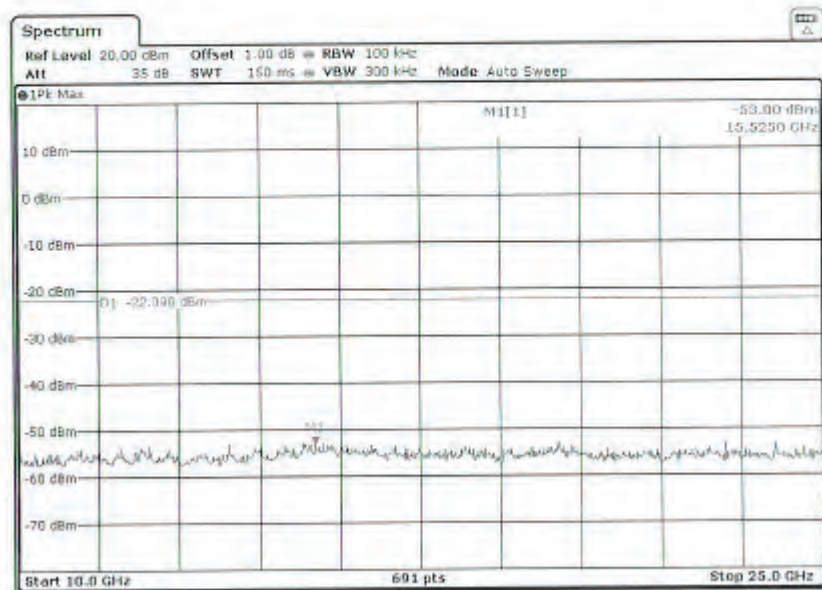
2441MHz, 8DPSK



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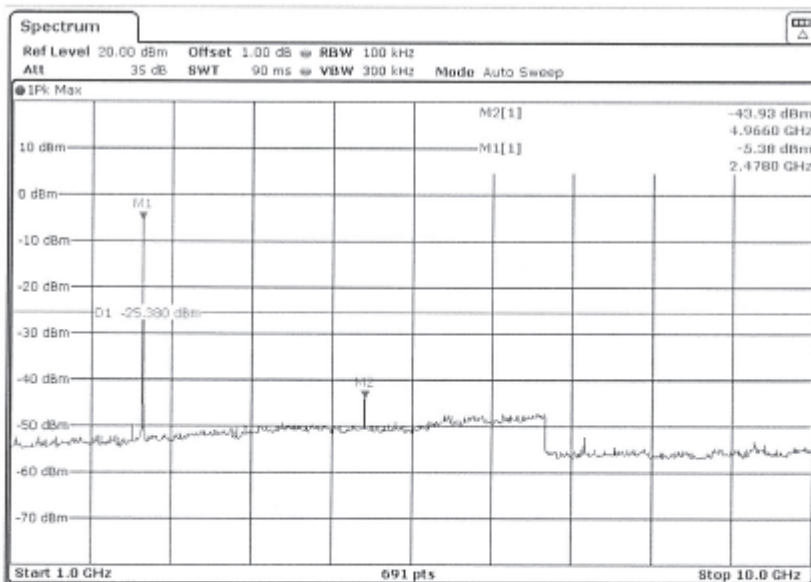
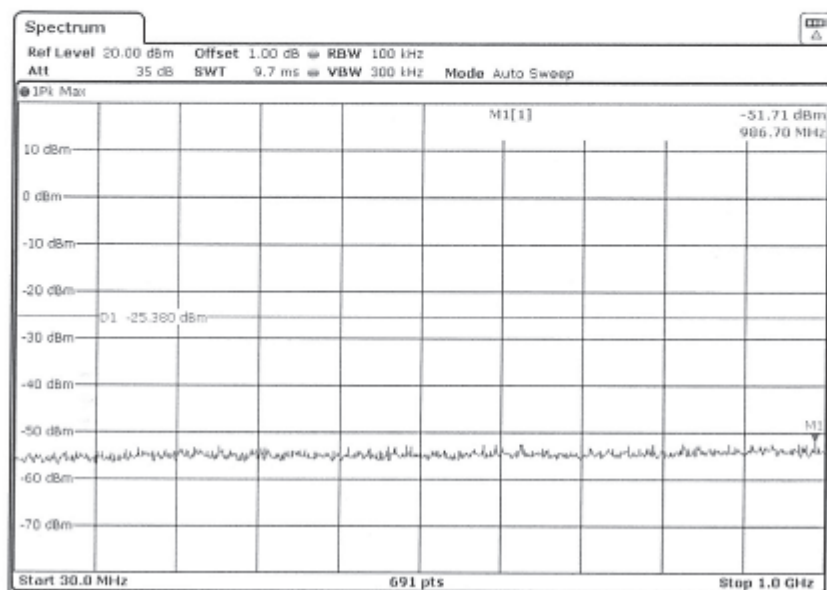


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2480MHz, 8DPSK



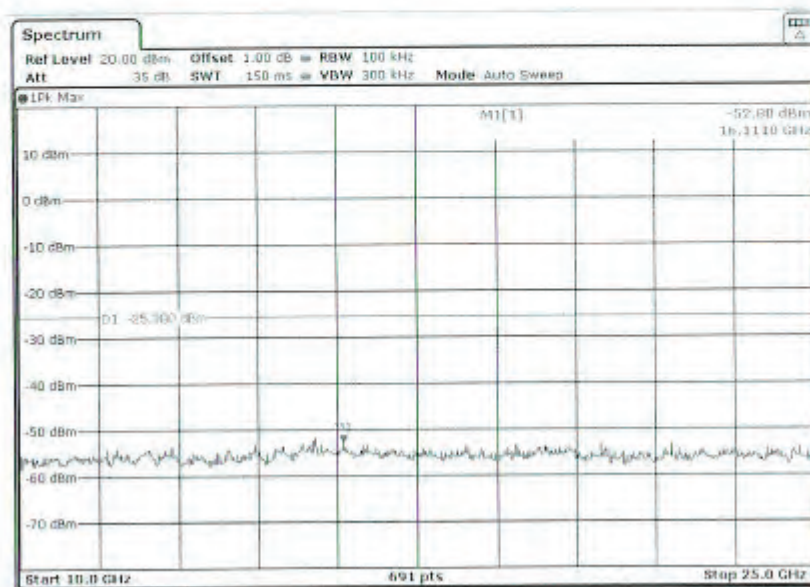
Prüfbericht - Nr.:

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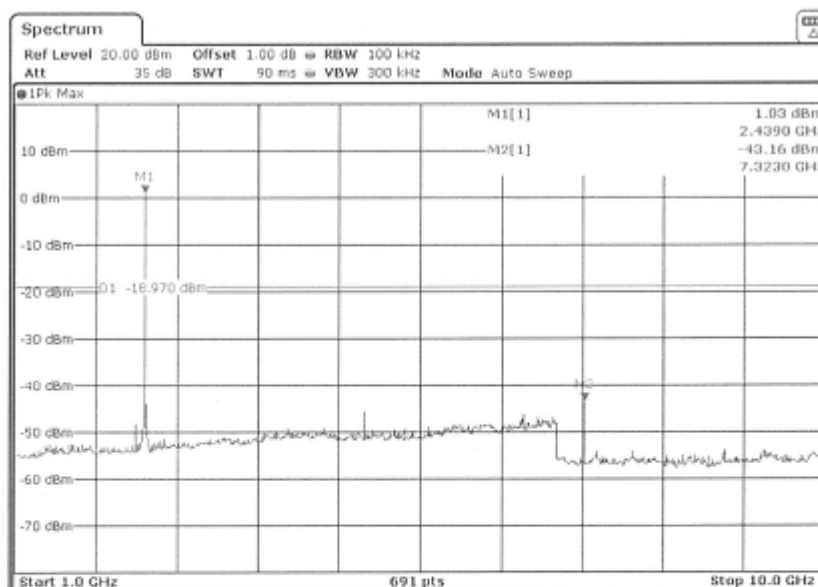
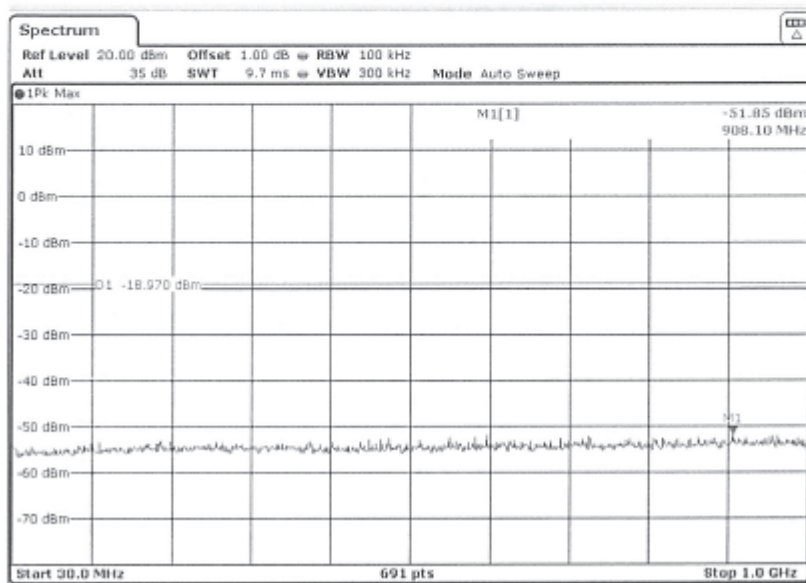


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2441MHz, GFSK



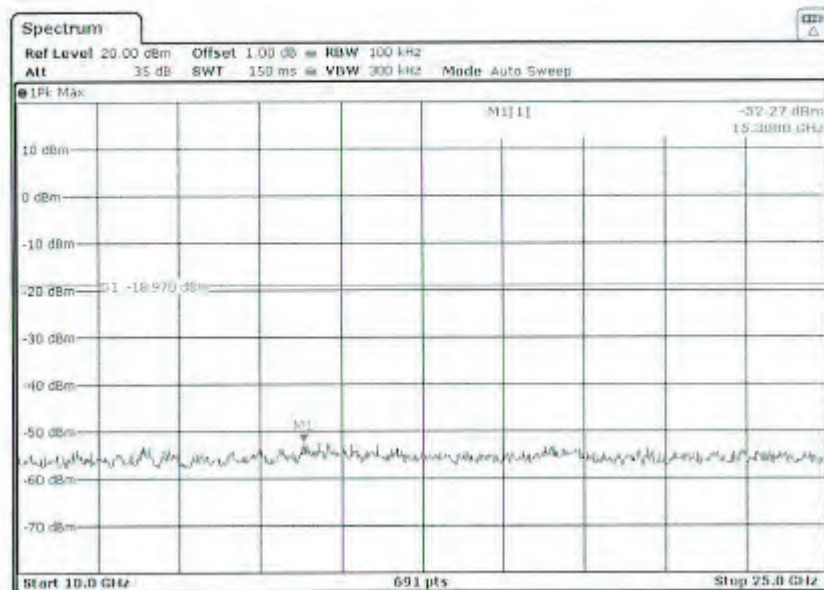
Prüfbericht - Nr.:

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Prüfbericht - Nr.:

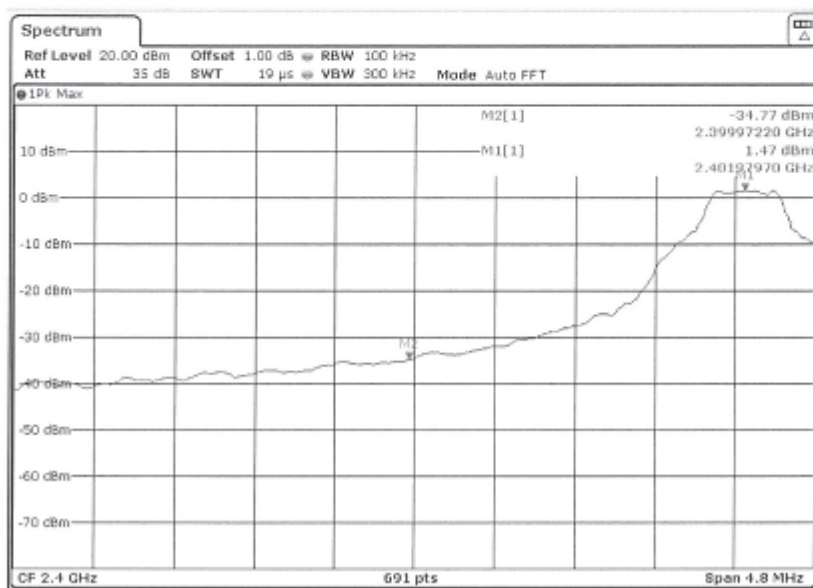
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Test Report No.

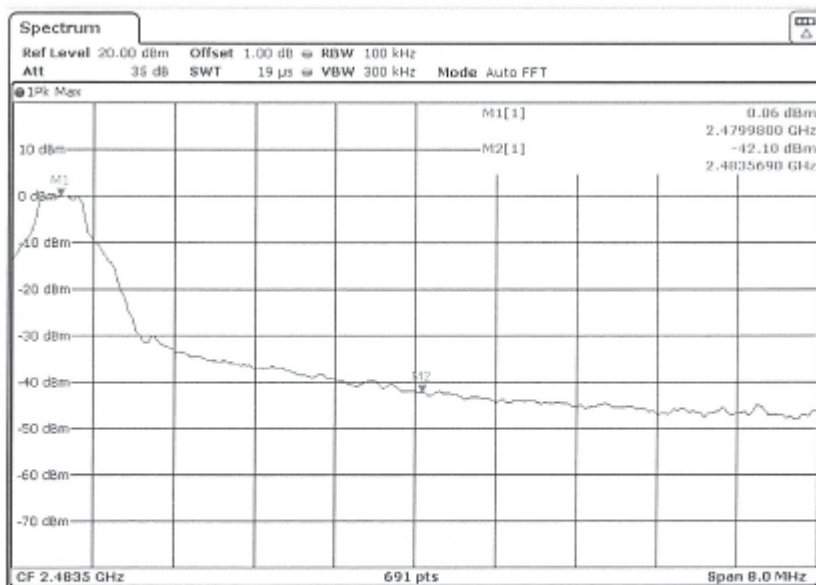
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Band Edge, GFSK (Low)



Band Edge, GFSK (High)

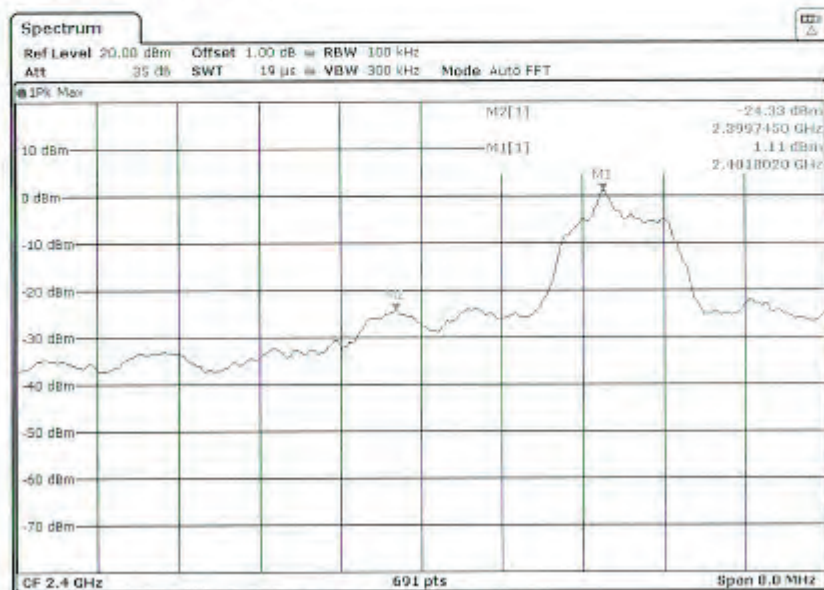


Prüfbericht - Nr.:
Test Report No.

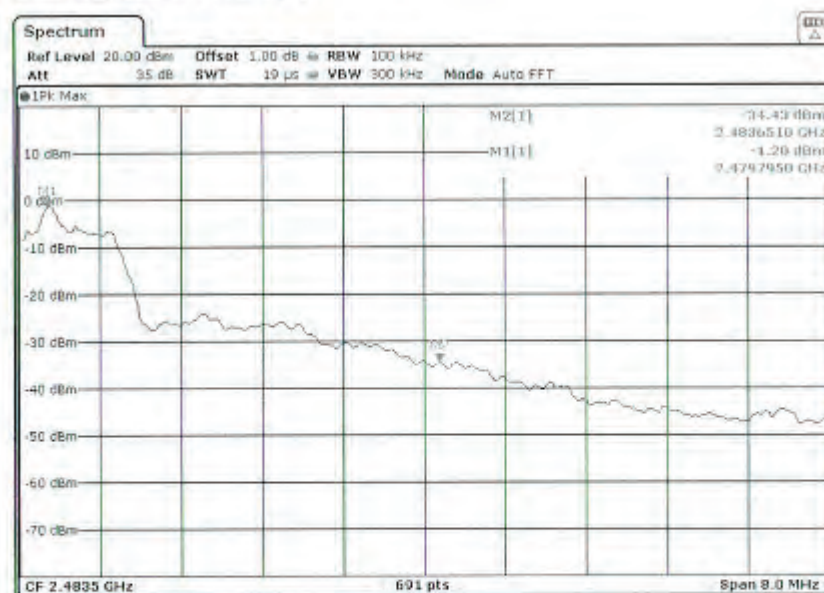
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Band Edge, 8DPSK (Low)



Band Edge, 8DPSK (High)



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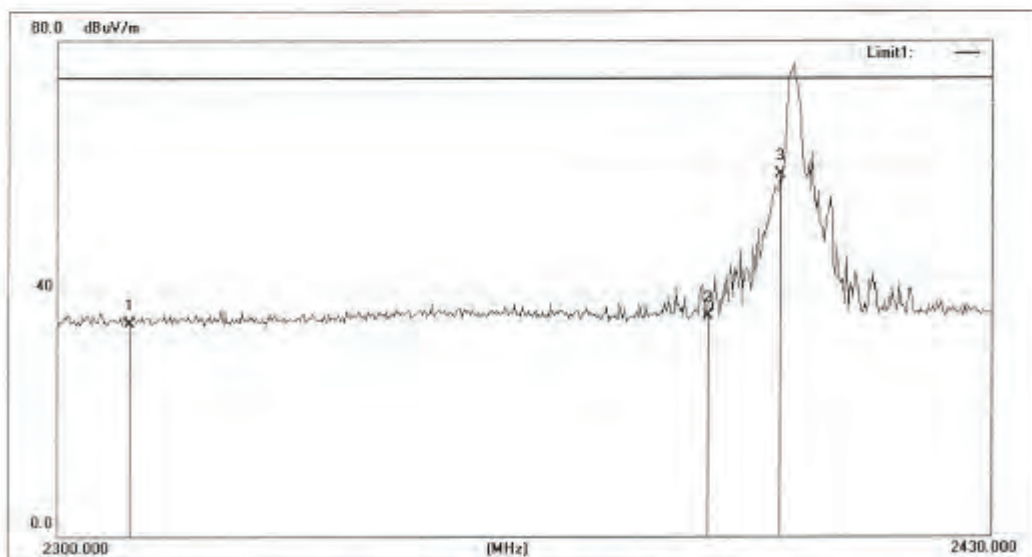
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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

Tel (86)020-38699960

Http://www.grgtest.com

Project No.:	E201507088557	Polarization:	Vertical
Standard:	(RE)FCC PART 15 class B 3m PEAK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum.(%RH):	21.5/54%RH	Time:	18:36:53
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P 8dpsk LCH	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	27.33	6.94	34.27	74.00	-39.73	peak
2	2390.000	28.03	7.41	35.44	74.00	-38.56	peak
3	2400.000	51.14	7.46	58.60	74.00	-15.40	peak

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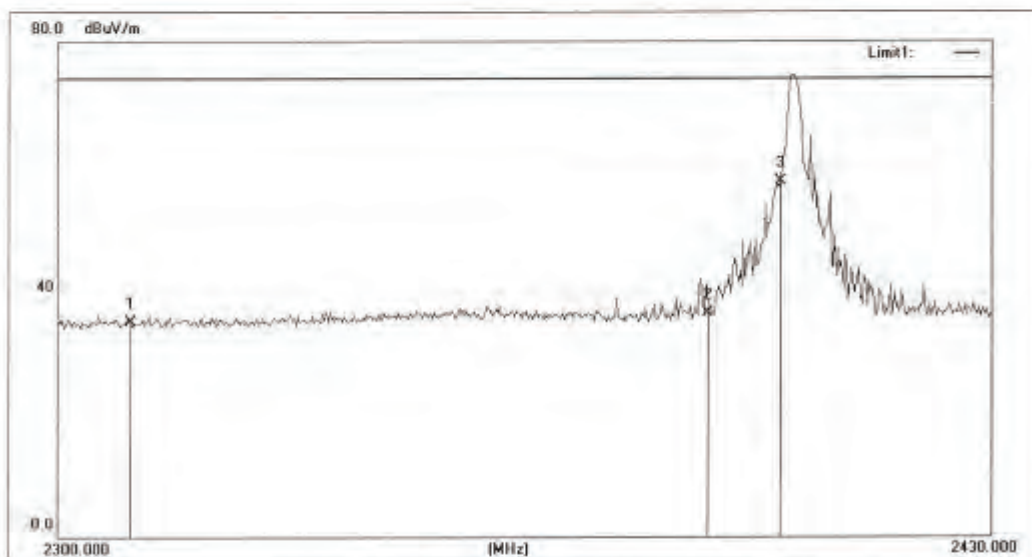
Test Report No.

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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

Tel (86)020-38699960
Http://www.grgtest.com

Project No.:	E201507088557	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m PEAK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum. (%RH):	21.5/54%RH	Time:	18:39:33
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P 8DPSK LOWCH	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	27.86	6.94	34.80	74.00	-39.20	peak
2	2390.000	28.70	7.41	36.11	74.00	-37.89	peak
3	2400.000	49.81	7.46	57.27	74.00	-16.73	peak

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Test Report No.

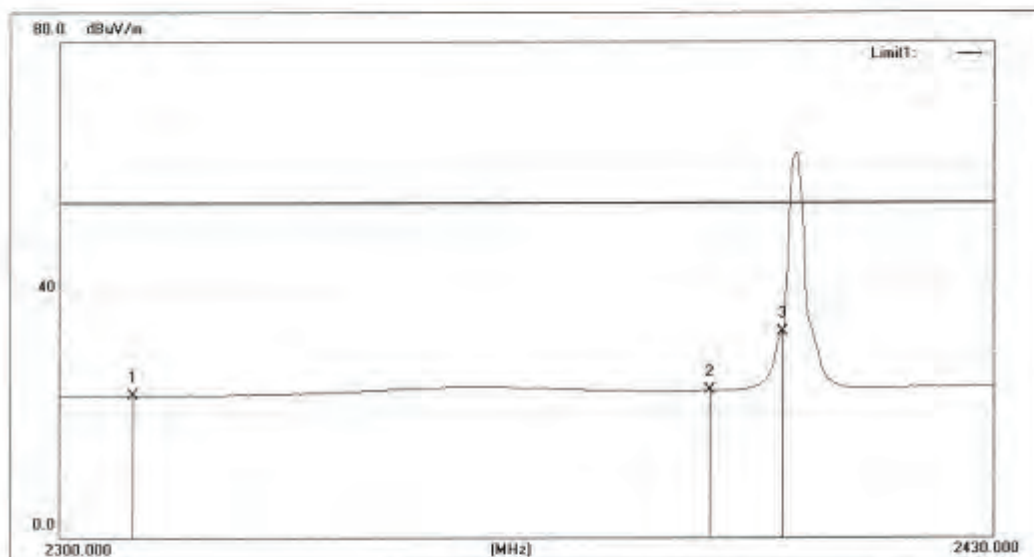
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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

Tel: (86)020-38699960

Http://www.grgtest.com

Project No.:	E201507088557	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum. (%RH):	21.5/54%RH	Time:	18:41:02
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P 8dpsk LowCH	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	15.97	6.94	22.91	54.00	-31.09	AVG
2	2390.000	16.21	7.41	23.62	54.00	-30.38	AVG
3	2400.000	25.64	7.46	33.10	54.00	-20.90	AVG

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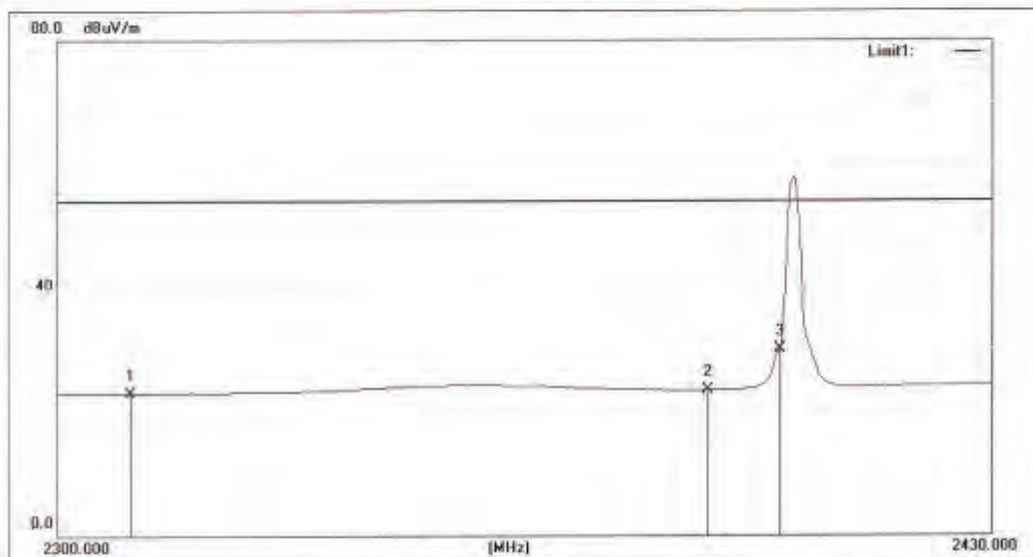
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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

Tel (86)020-38699960
Http://www.grgtest.com

Project No.:	E201507088557	Polarization:	Vertical
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum. (%RH):	21.5/54%RH	Time:	18:42:53
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P <i>8PPSK Low CH</i>	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	15.98	6.94	22.92	54.00	-31.08	AVG
2	2390.000	15.99	7.41	23.40	54.00	-30.60	AVG
3	2400.000	22.38	7.46	29.84	54.00	-24.16	AVG

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Test Report No.

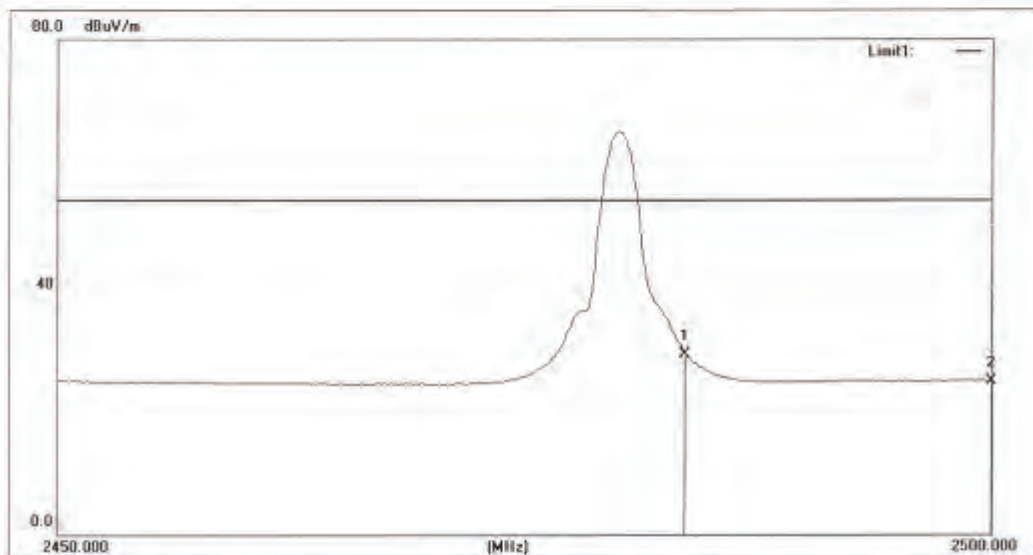
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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

Tel: (86)020-38699960

Http://www.grgtest.com

Project No.:	E201507088557	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum.(%RH):	21.5/54%RH	Time:	18:18:24
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P 8dpsk High CH	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	21.27	7.87	29.14	54.00	-24.86	AVG
2	2500.000	-16.81	7.95	24.76	54.00	-29.24	AVG

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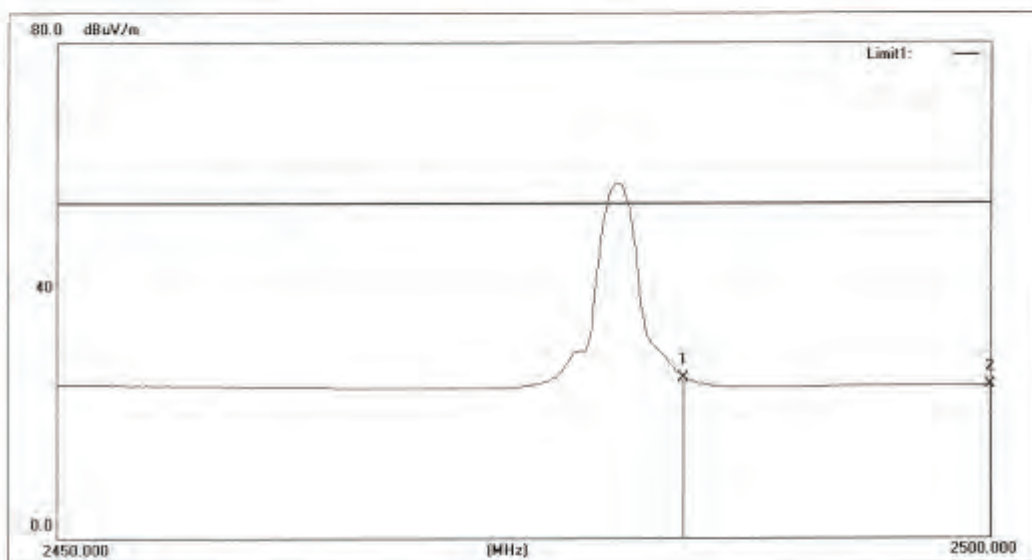
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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

Tel (86)020-38699960
Http://www.grgtest.com

Project No.:	E201507088557	Polarziation:	Vertical
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum. (%RH):	21.5/54%RH	Time:	18:19:05
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P 8dpsk High CH	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	17.92	7.87	25.79	54.00	-28.21	AVG
2	2500.000	16.58	7.95	24.53	54.00	-29.47	AVG

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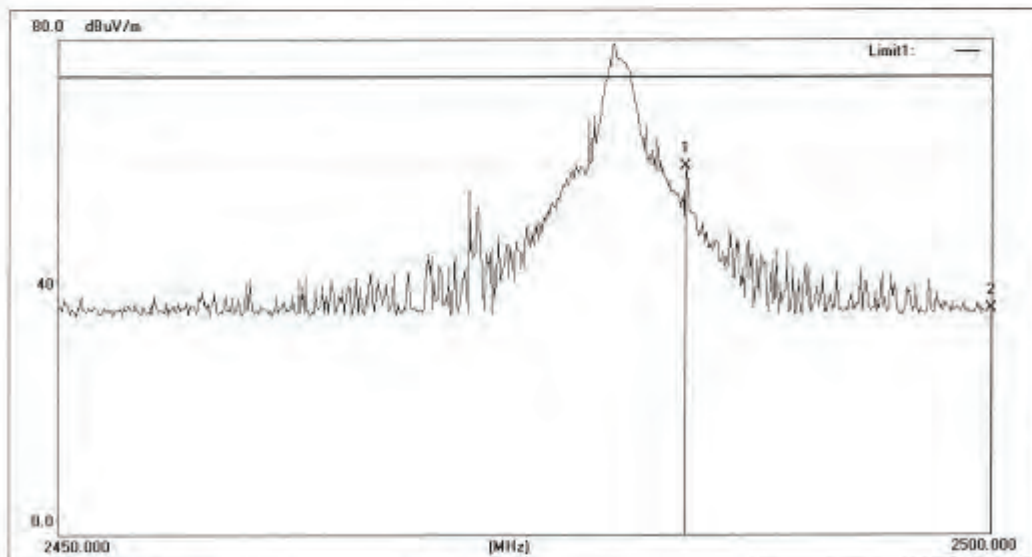
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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

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Project No.:	E201507088557	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m_PEAK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum.(%RH):	21.5/54%RH	Time:	18:20:22
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P 801psk highch	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	51.59	7.87	59.46	74.00	-14.54	peak
2	2500.000	28.30	7.95	36.25	74.00	-37.75	peak

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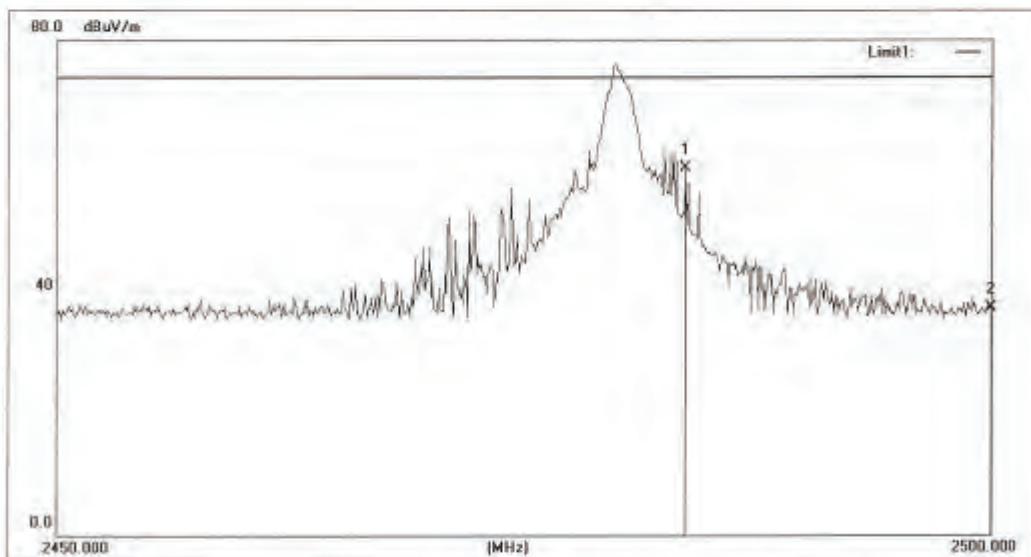
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Tel (86)020-38699960

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Project No.:	E201507088557	Polarization:	Vertical
Standard:	(RE)FCC PART 15 class B 3m PEAK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum. (%RH):	21.5/54%RH	Time:	18:21:17
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P 80PCK High CH	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	51.36	7.87	59.23	74.00	-14.77	peak
2	2500.000	28.83	7.95	36.78	74.00	-37.22	peak

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Test Report No.

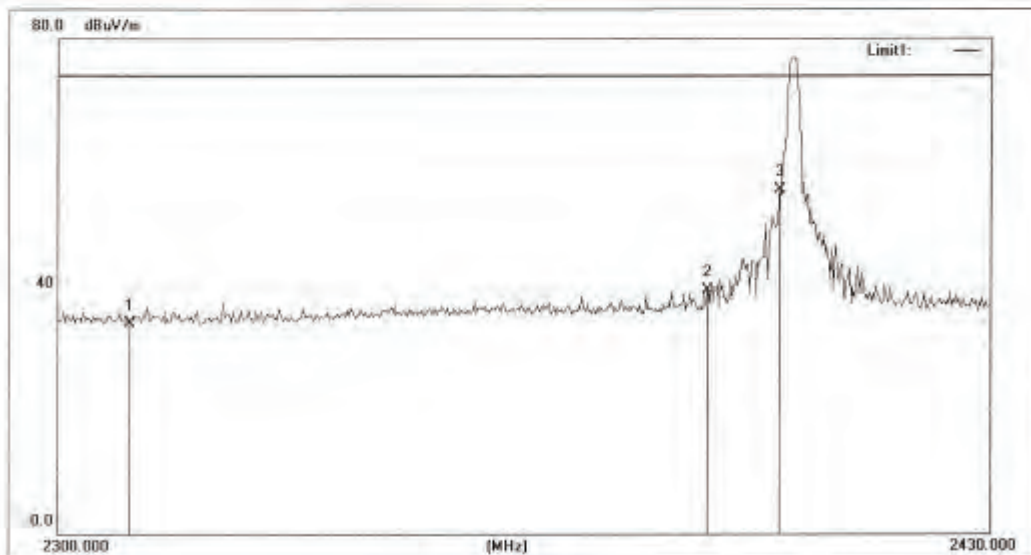
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Project No.:	E201507088557	Polarization:	Vertical
Standard:	(RE)FCC PART 15 class B 3m PEAK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum.(%RH):	21.5/54%RH	Time:	17:54:37
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P GFSK LowCH	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	26.97	-6.94	33.91	74.00	-40.09	peak
2	2390.000	31.85	-7.41	39.26	74.00	-34.74	peak
3	2400.000	48.02	-7.46	55.48	74.00	-18.52	peak

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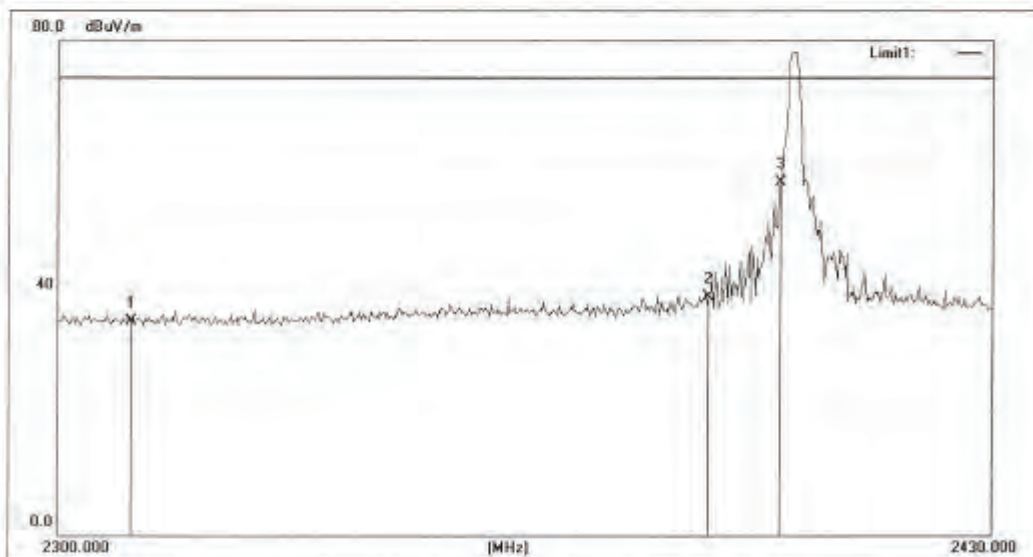
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Tel: (86)020-38699960

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Project No.:	E201507088557	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m PEAK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum. (%RH):	21.5/54%RH	Time:	17:55:40
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P <i>GFSK Low CH</i>	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	27.55	6.94	34.49	74.00	-39.51	peak
2	2390.000	31.12	7.41	38.53	74.00	-35.47	peak
3	2400.000	49.66	7.46	57.12	74.00	-16.88	peak

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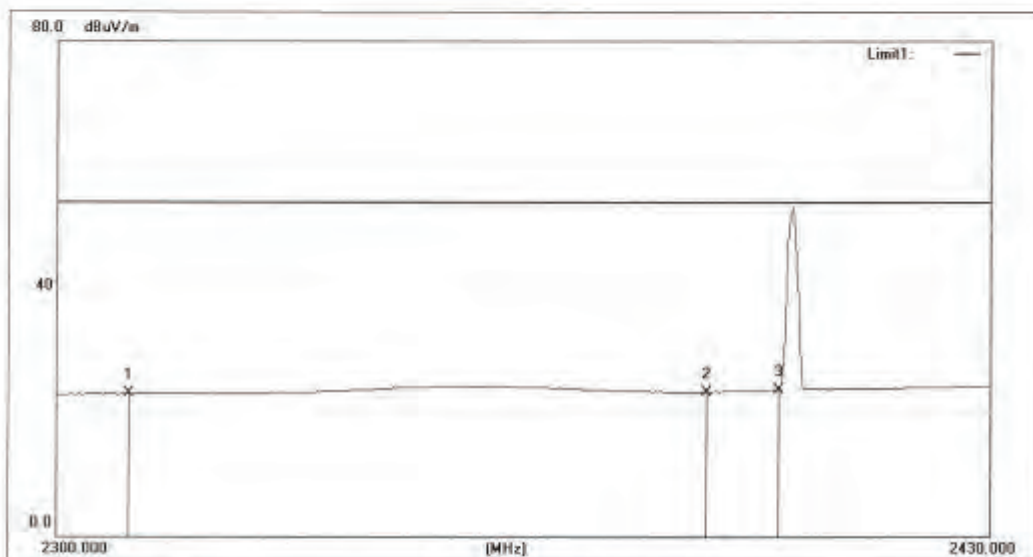
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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

Tel: (86)020-38699960
Http://www.grgtest.com

Project No.:	E201507088557	Polarization:	Vertical
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum.(%RH):	21.5/54%RH	Time:	17:57:26
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P <i>GFSK Low CH</i>	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	16.09	6.94	23.03	54.00	-30.97	AVG
2	2390.000	15.96	7.41	23.37	54.00	-30.63	AVG
3	2400.000	16.26	7.46	23.72	54.00	-30.28	AVG

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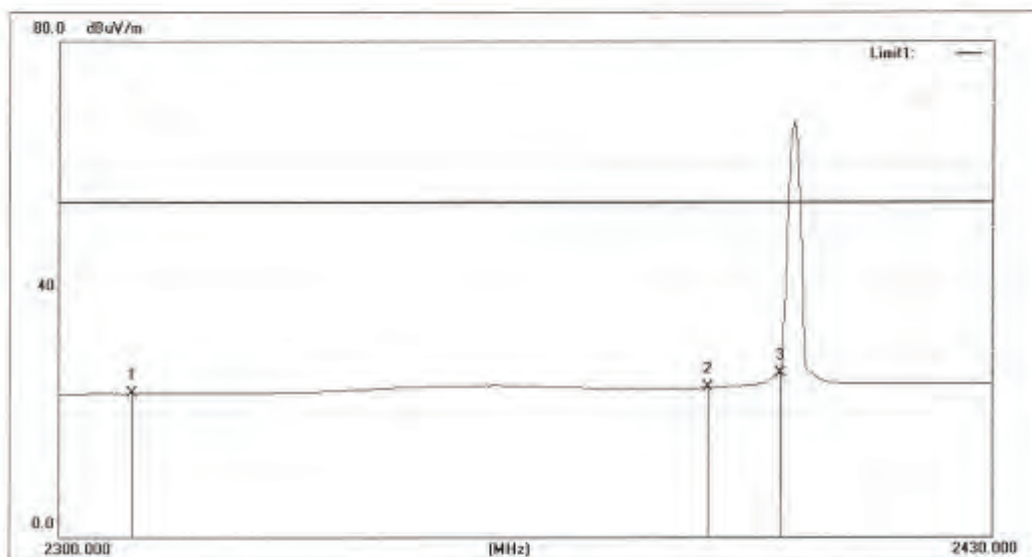
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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

Tel (86)020-38699960

Http://www.grgtest.com

Project No.:	E201507088557	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum.(%RH):	21.5/54%RH	Time:	17:58:35
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P <i>GFSK Low CH</i>	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	16.10	6.94	23.04	54.00	-30.96	AVG
2	2390.000	16.66	7.41	24.07	54.00	-29.93	AVG
3	2400.000	18.93	7.46	26.39	54.00	-27.61	AVG

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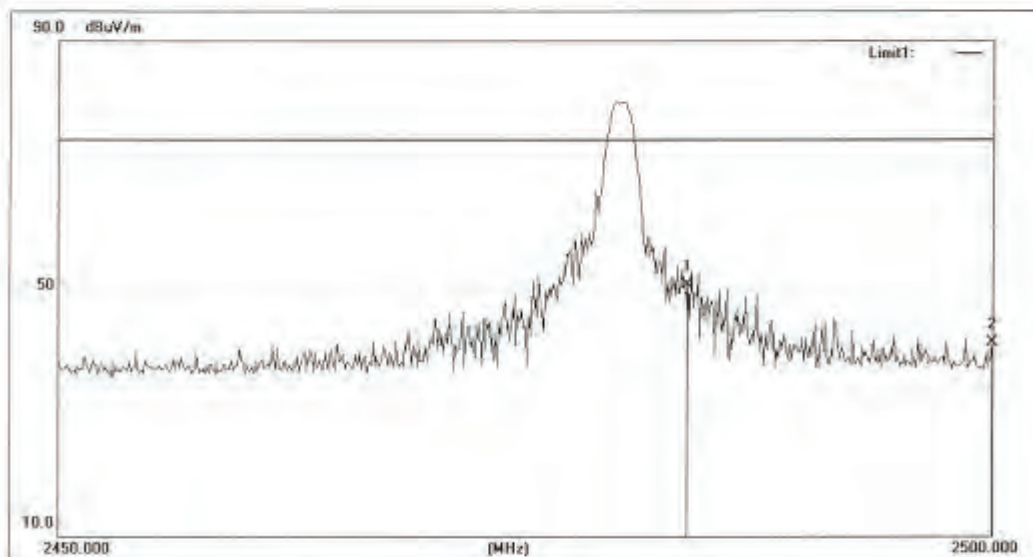
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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

Tel (86)020-38699960

Http://www.grgtest.com

Project No.:	E201507088557	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m PEAK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum. (%RH):	21.5/54%RH	Time:	18:11:32
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P <i>GFSK High CH</i>	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	42.62	7.87	50.49	74.00	-23.51	peak
2	2500.000	33.20	7.95	41.15	74.00	-32.85	peak

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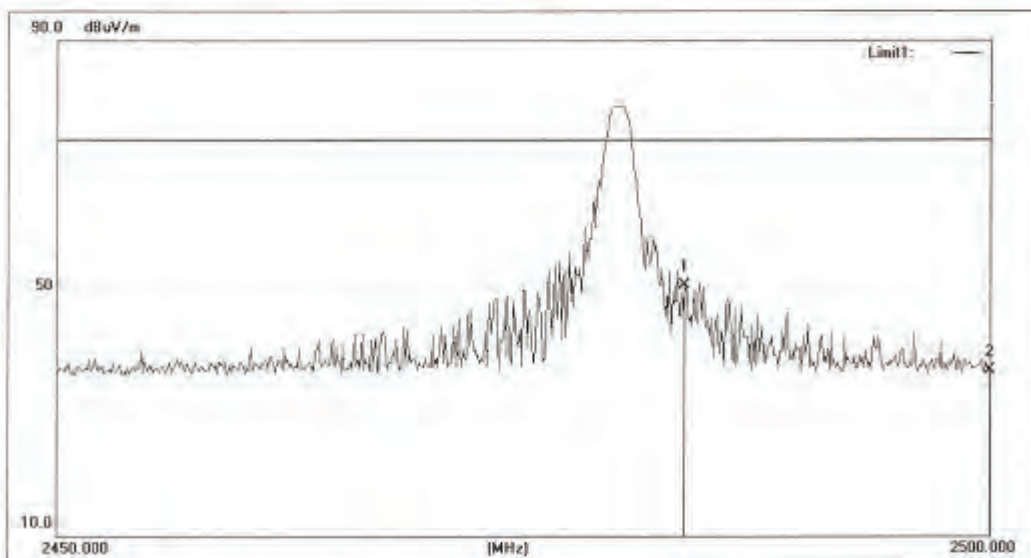
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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

Tel (86)020-38699960
Http://www.grgtest.com

Project No.:	E201507088557	Polarization:	Vertical
Standard:	(RE)FCC PART 15 class B 3m PEAK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum.(%RH):	21.5/54%RH	Time:	18:12:51
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P <i>Gtk High CH</i>	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	42.60	7.87	50.47	74.00	-23.53	peak
2	2500.000	28.78	7.95	36.73	74.00	-37.27	peak

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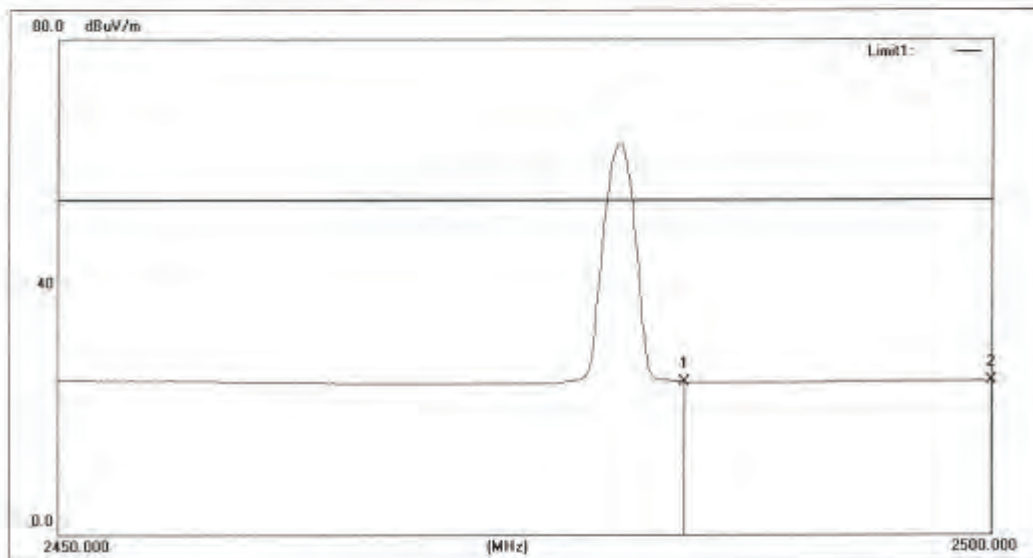
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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

Tel (86)020-38699960

Http://www.grgtest.com

Project No.:	E201507088557	Polarization:	Vertical
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum.(%RH):	21.5/54%RH	Time:	18:15:41
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P <i>GFSK High CH</i>	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.70	7.87	24.57	54.00	-29.43	AVG
2	2500.000	16.75	7.95	24.70	54.00	-29.30	AVG

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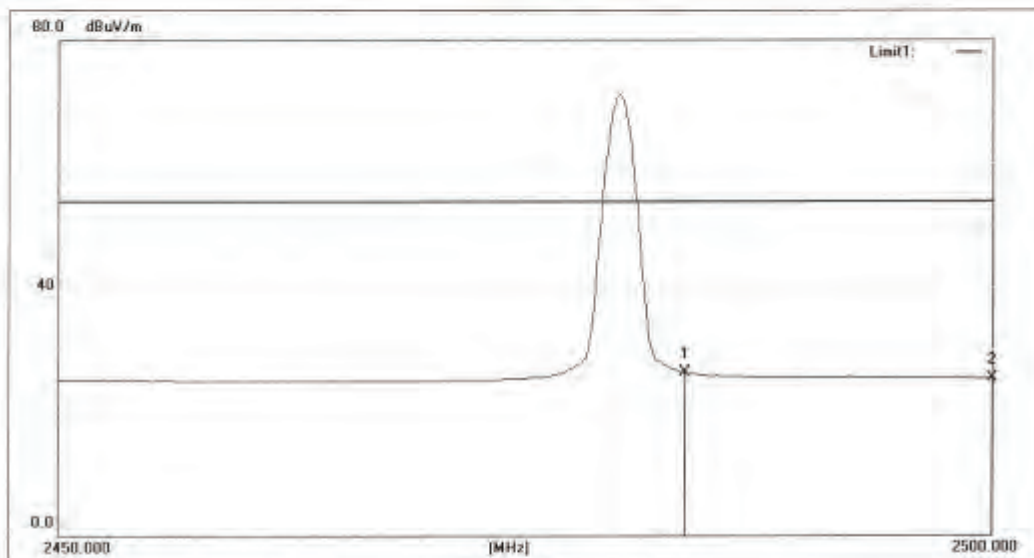
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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

Tel (86)020-38699960
Http://www.grgtest.com

Project No.:	E201507088557	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m_AVG	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2015-7-16
Temp./Hum.(%RH):	21.5/54%RH	Time:	18:16:41
EUT:	Bluetooth Rock Speaker	Distance:	3m
Model:	ITSBO-358P <i>Grsk high CH</i>	Test Result:	Pass
Note:			



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	18.37	7.87	26.24	54.00	-27.76	AVG
2	2500.000	17.38	7.95	25.33	54.00	-28.67	AVG

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Test Report No.

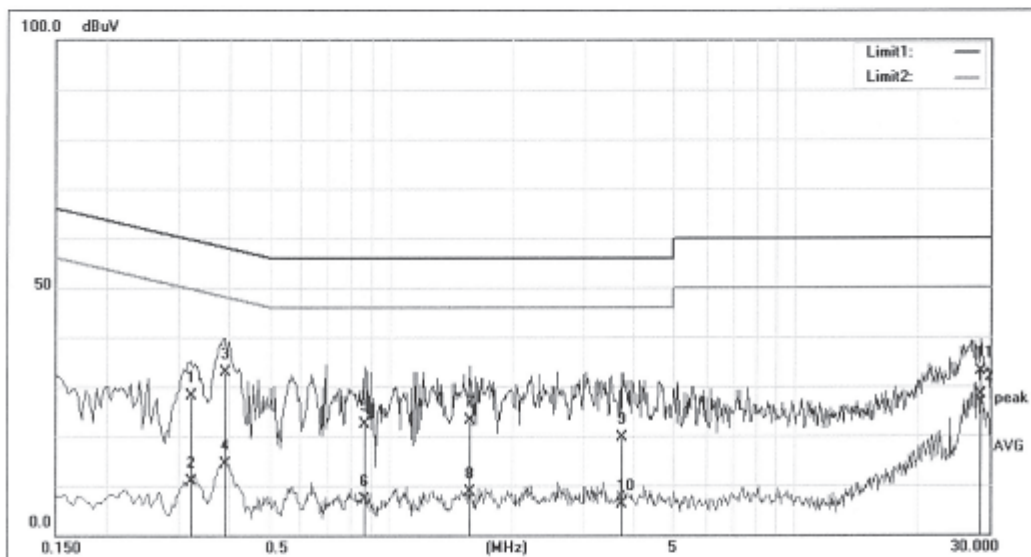
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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

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Http://www.grgtest.com

Project No.:	E201507088557	Probe:	L1
Standard:	(CE)FCC PART 15 class B_QP	Power Source:	AC 120V/60Hz
Test item:	Conduction Test	Date:	2015-7-17
Temp./Hum. (%RH):	22.8/59.2%RH	Time:	16:07:10
EUT:	Bluetooth Rock Speaker		
Model:	ITSBO-358P	Test Result:	Pass
Note:	8DPSK Channel: 2402		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3225	21.58	6.50	28.08	59.64	-31.56	QP
2	0.3225	4.39	6.50	10.89	49.64	-38.75	AVG
3	0.3913	26.32	6.51	32.83	58.03	-25.20	QP
4	0.3913	7.99	6.51	14.50	48.03	-33.53	AVG
5	0.8586	15.84	6.46	22.30	56.00	-33.70	QP
6	0.8586	0.67	6.46	7.13	46.00	-38.87	AVG
7	1.5762	16.47	6.58	23.05	56.00	-32.95	QP
8	1.5762	2.17	6.58	8.75	46.00	-37.25	AVG
9	3.7209	12.90	6.69	19.59	56.00	-36.41	QP
10	3.7209	-0.52	6.69	6.17	46.00	-39.83	AVG
11	28.5415	25.78	7.18	32.96	60.00	-27.04	QP
12	28.5415	20.91	7.18	28.09	50.00	-21.91	AVG

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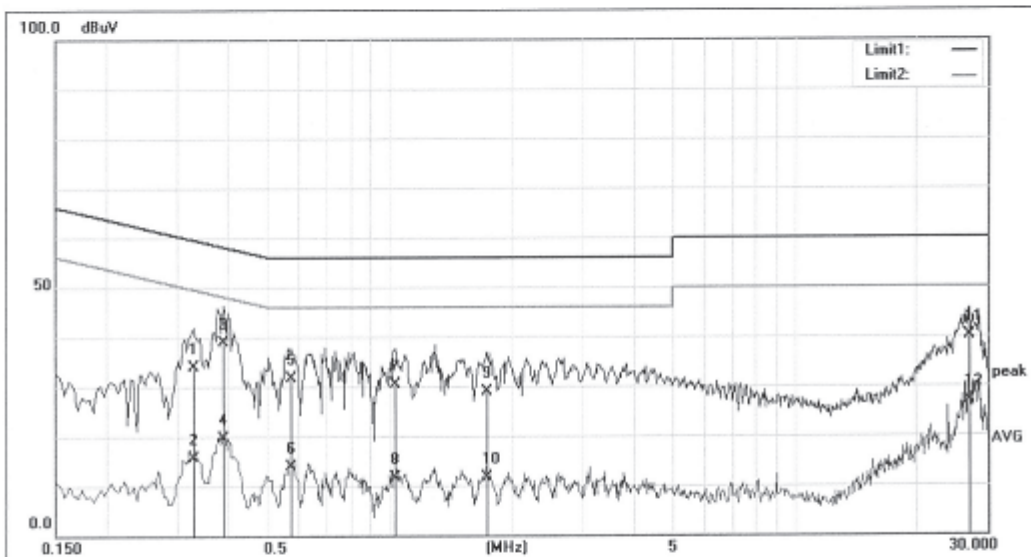
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GUANGZHOU GRG METEROLOGY & TEST TECHNOLOGY

Tel (86)020-38699960

Http://www.grgtest.com

Project No.:	E201507088557	Probe:	N
Standard:	(CE)FCC PART 15 class B_QP	Power Source:	AC 120V/60Hz
Test item:	Conduction Test	Date:	2015-7-17
Temp./Hum. (%RH):	22.8/59.2%RH	Time:	16:12:31
EUT:	Bluetooth Rock Speaker		
Model:	ITSBO-358P	Test Result:	Pass
Note:	8DPSK Channel: 2402		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3280	27.44	6.50	33.94	59.50	-25.56	QP
2	0.3280	9.21	6.50	15.71	49.50	-33.79	AVG
3	0.3904	32.30	6.51	38.81	58.05	-19.24	QP
4	0.3904	13.22	6.51	19.73	48.05	-28.32	AVG
5	0.5754	25.13	6.50	31.63	56.00	-24.37	QP
6	0.5754	7.29	6.50	13.79	46.00	-32.21	AVG
7	1.0233	23.97	6.46	30.43	56.00	-25.57	QP
8	1.0233	5.13	6.46	11.59	46.00	-34.41	AVG
9	1.7350	22.38	6.58	28.96	56.00	-27.04	QP
10	1.7350	5.08	6.58	11.66	46.00	-34.34	AVG
11	27.0749	32.74	7.16	39.90	60.00	-20.10	QP
12	27.0749	19.64	7.16	26.80	50.00	-23.20	AVG