





Test Report FCC Part15 Subpart C

Product Name: BLUETOOTH SPEAKER

Model No. : LTG300

FCC ID : Y2SLTG300

IC : 9452A-LTG300

Applicant: LIBRATONE A/S

Address: Sundkaj 9, DK-2150 Nordhavn, Denmark

Date of Receipt: Mar. 21, 2016

Test Date : Mar. 21, 2016~ Apr. 08, 2016

Issued Date : Apr. 28, 2016

Report No. : 1632087R-RF-US-P06V02

Report Version: V2.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report Certification

Issued Date: Apr. 28, 2016

Report No. : 1632087R-RF-US-P06V02



Product Name : BLUETOOTH SPEAKER

Applicant : LIBRATONE A/S

Address : Sundkaj 9, DK-2150 Nordhavn, Denmark

Manufacturer : LIBRATONE A/S

Address : Sundkaj 9, DK-2150 Nordhavn, Denmark

 Model No.
 : LTG300

 FCC ID
 : Y2SLTG300

 IC
 : 9452A-LTG300

 Brand Name
 : LIBRATONE

EUT Voltage : DC 5V

Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2015

ANSI C63.4:2014; ANSI C63.10:2013;

KDB 558074 D01v03r04

Industry Canada RSS-Gen Issue 4 / RSS-247 Issue 1

Test Result : Complied

Performed Location : Quietek Corporation - Suzhou EMC Laboratory

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Laboratory Information

We, **QuieTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C. : BSMI, NCC, TAF

USA : FCC
Japan : VCCI
China : CNAS

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site: http://www.quietek.com/english/about/certificates.aspx?bval=5
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site: http://www.quietek.com/index en.aspx

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1632087R-RF-US-P06V01	V1.0	Initial Issued Report	Apr. 14, 2016
1632087R-RF-US-P06V01	V2.0	Change the address of the applicant and manufacturer	Apr. 28, 2016



1. General Information

1.1. EUT Description

Product Name	BLUETOOTH SPEAKER			
Brand Name	LIBRATONE			
Model No.	LTG300			
Working Voltage	DC 5V			
Bluetooth Specification	V3.0+V4.0			
Frequency Range	2402- 2480 MHz			
Channel Number	V3.0: 79			
	V4.0: 40			
Channel Separation	V3.0: 1MHz			
	V4.0: 2MHz			
Type of Modulation	V3.0: GFSK, Pi/4 DQPSK, 8DPSK			
Type of Modulation	V4.0: GFSK			
Data Rate	V3.0: 1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK)			
Data Rate	V4.0: 1Mbps(GFSK)			
Antenna Type	Reference to Antenna List			
Peak Antenna Gain	Reference to Antenna List			

1.2. Working Frequency of Each Channel:

Bluetooth Working Frequency of Each Channel: (For V4.0)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz	03	2408 MHz
04	2410 MHz	05	2412 MHz	06	2414 MHz	07	2416 MHz
80	2418 MHz	09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz	15	2432 MHz
16	2434 MHz	17	2436 MHz	18	2438 MHz	19	2440 MHz
20	2442 MHz	21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz	27	2456 MHz
28	2458 MHz	29	2460 MHz	30	2462 MHz	31	2464 MHz
32	2466 MHz	33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz	39	2480 MHz

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1.3. Antenna information

Model No.	N/A						
Antenna manufacturer	N//A						
Antenna Delivery	\boxtimes	1*TX+1*F	1*TX+1*RX				
Antenna technology	\boxtimes	SISO					
				Basic			
		MIMO		CDD			
				Beam-forming			
Antenna Type		External		Dipole			
		Internal		PIFA			
				PCB			
				Ceramic Chip Antenna			
			\boxtimes	Metal plate type F antenna			
Antenna Gain	-0.53	-0.53dBi					

1.4. Mode of Operation

Test Mode	
Mode 1: Transmit-1Mbps(GFSK_BLE)	

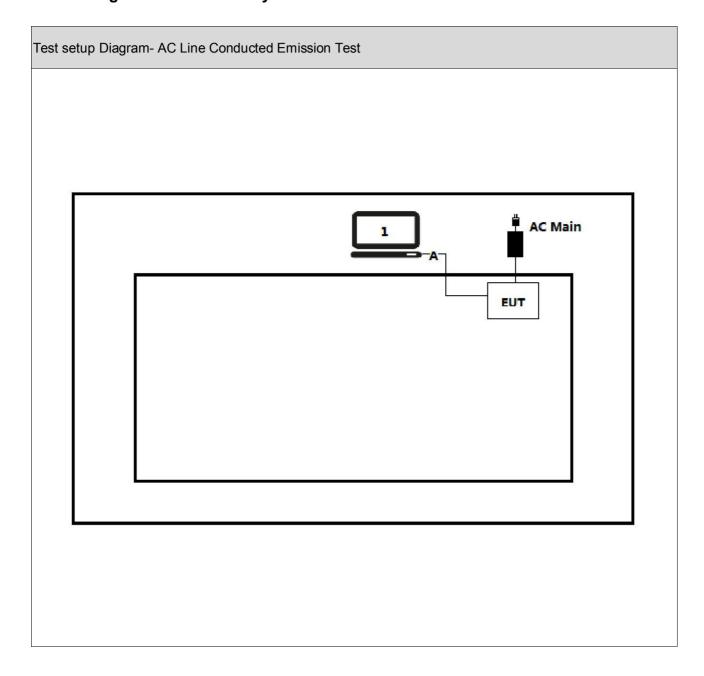
1.5. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

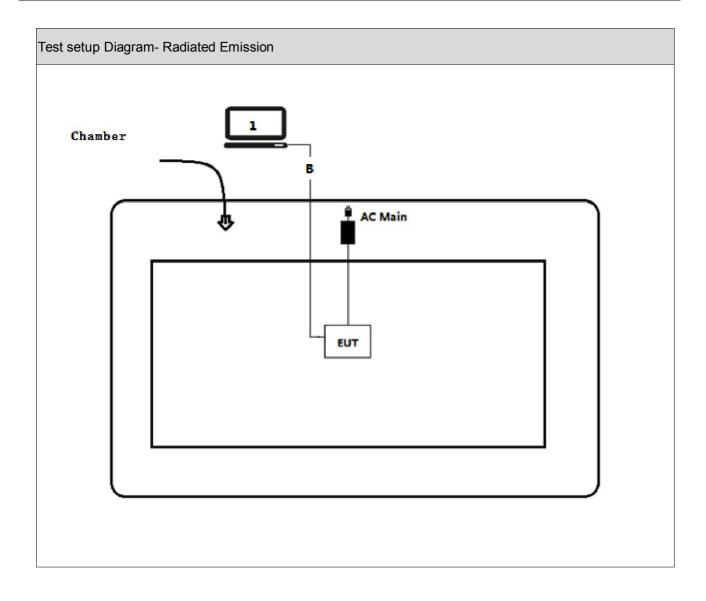
No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Think Pad	2526	LV-A3285	Power by adapter



1.6. Configuration of Tested System









1.7. EUT Exercise Software

- Setup the EUT and simulators as shown on above.
- 2 Turn on the power of all equipment.
- Run the RF test software, and set the test mode and channel, then press OK to start continue receive.

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2. Technical Test

2.1. Summary of Test Result

Performed Test Item	Normative References	Worst case mode	Limit	Result
AC Power Line	FCC CFR Title 47 Part 15 Subpart C:	Mode 1	FCC 15.207	PASS
Conducted Emission	2015 Section 15.207			
Emissions in restricted	FCC CFR Title 47 Part 15 Subpart C:	Mode 1	FCC 15.209	PASS
frequency bands	2015 Section 15.209			
Emissions in	FCC CFR Title 47 Part 15 Subpart C:	Mode 1	≥20dBc	PASS
non-restricted	2015 Section 15.247(d)			
frequency bands				
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C:	Mode 1	FCC 15.209	PASS
Band Edge	2015 15.247(d)			
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C:	Mode 1	≥500kHz	PASS
	2015 Section 15.247(a)(2)			
Fundamental emission	FCC CFR Title 47 Part 15 Subpart C:	Mode 1	≤30dBm	PASS
output power	2015 Section 15.247(b)(3)			
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C:	Mode 1	≤8dBm/3kHz	PASS
	2015 Section 15.247(e)			

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Performed Test Item	Normative References	Test	Deviation	
		Performed		
Conducted Emission	RSS-Gen Issue 4	Yes	No	
	Section 8.8			
Radiated Emission	RSS-Gen Issue 4	Yes	No	
	Section 8.9			
RF Antenna Conducted Spurious	RSS-247 Issue 1	Yes	No	
	Section A5.5			
Radiated Emission Band Edge	RSS-210 Issue 1	Yes	No	
	Section A5.5			
Occupied Bandwidth	RSS-Gen Issue 4	Yes	No	
	Section 6.6			
	RSS-247 Issue 1			
	Section A5.2(1)			
Power Output	RSS-247 Issue 1	Yes	No	
	Section A5.4(4)			
Power Spectral Density	RSS-247 Issue 1	Yes	No	
	Section A5.2(2)			



2.2. Test Frequency configuration:

Modulation Mode	Channel	Frequency	Channel	Frequency	Channel	Frequency
BLE	00	2402 MHz	19	2440 MHz	39	2480MHz

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2.3. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

2.4. Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	±2.02dB
Radiated Emission	Below 1GHz \pm 3.8 dB
	Above 1GHz \pm 3.9 dB
RF Antenna Port Conducted Emission	±1.27dB
Radiated Emission Band Edge	± 3.9 dB
Occupied Bandwidth	± 1kHz
Power Spectral Density	±1.27dB



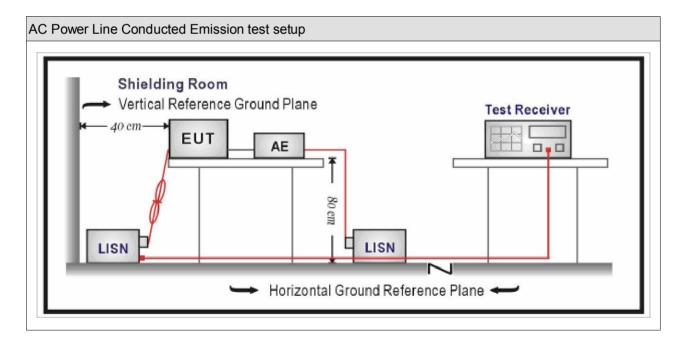
3. AC Power Line Conducted Emission

3.1. Test Equipment

AC Power Line Conducted Emission / TR-1							
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date		
EMI Test Receiver	R&S	ESCI	100726	2016.03.05	2017.03.04		
Two-Line V-Network	R&S	ENV216	100043	2015.03.29	2017.03.28		
Two-Line V-Network	R&S	ENV216	100044	2015.09.17	2016.09.16		
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2016.03.02	2017.03.01		
50ohm Termination	SHX	TF2	07081401	2015.09.17	2016.09.16		
Temperature/Humidity	zhichen	704.0	TR1-TH	2016.01.04	2017.01.03		
Meter	znichen	ZC1-2	IKI-IH	2010.01.04	2017.01.03		

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup





3.3. Limit

Frequency of Emission	Conducted Limit				
(MHz)	Quasi-peak (dB μ V)	Average(dB μ V)			
0.15-0.5	66 to 56	56 to 46			
0.5-5	56	46			
5-30	60	50			

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range $0.15\,\mathrm{MHz}$ to $0.5\,\mathrm{MHz}$.

3.4. Test Procedure

Test Method							
	References Rule	Chapter	Item				
	ANSI C63.10-2013		Standard test method for ac power-line conducted emissions from unlicensed wireless devices				
	ANSI C63.4-2014	7	AC power-line conducted emission measurements				

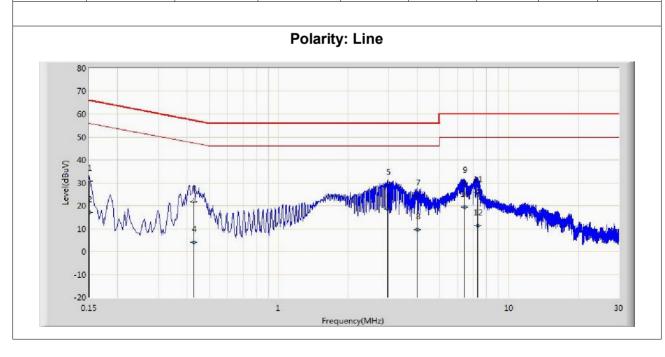
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3.5. Test Result

Product Name		BLUETOOTH SPEAKER	Polarity		Line
Test Item	:	AC Power Line Conducted Emission	Power	:	AC 120V/60Hz
Test Site		TR1	Test Mode		Mode 1

No	Frequency	Measure	Reading	Over	Limit	Probe	Cable	Type
	(MHz)	Level	Level	Limit	(dB μ V)	(dB)	(dB)	
		(dB μV)	(dB μ V)	(dB)				
1	0.150	30.661	20.925	-35.339	66.000	9.676	0.060	QP
2	0.150	17.236	7.500	-38.764	56.000	9.676	0.060	AV
3	0.426	21.755	12.054	-35.575	57.330	9.631	0.070	QP
4	0.426	3.997	-5.704	-43.333	47.330	9.631	0.070	AV
5	2.978	29.071	19.301	-26.929	56.000	9.650	0.120	QP
6	2.978	18.518	8.748	-27.482	46.000	9.650	0.120	AV
7	4.002	24.309	14.509	-31.691	56.000	9.660	0.140	QP
8	4.002	9.525	-0.275	-36.475	46.000	9.660	0.140	AV
9	6.402	29.758	19.878	-30.242	60.000	9.690	0.190	QP
10	6.402	19.412	9.532	-30.588	50.000	9.690	0.190	AV
11	7.306	25.783	15.873	-34.217	60.000	9.700	0.210	QP
12	7.306	11.240	1.330	-38.760	50.000	9.700	0.210	AV

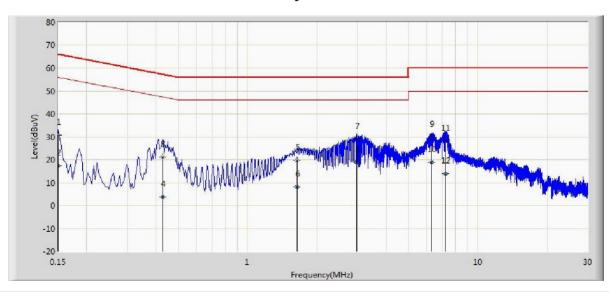




Product Name		BLUETOOTH SPEAKER	Polarity		Neutral
Test Item	:	AC Power Line Conducted Emission	Power	:	AC 120V/60Hz
Test Site		TR1	Test Mode		Mode 1

No	Frequency	Measure	Reading	Over	Limit	Probe	Cable	Type
	(MHz)	Level	Level	Limit	(dB μ V)	(dB)	(dB)	
		(dB μV)	(dB μ V)	(dB)				
1	0.150	30.713	20.977	-35.287	66.000	9.676	0.060	QP
2	0.150	17.512	7.776	-38.488	56.000	9.676	0.060	AV
3	0.426	21.153	11.443	-36.177	57.330	9.640	0.070	QP
4	0.426	3.757	-5.953	-43.573	47.330	9.640	0.070	AV
5	1.642	19.593	9.863	-36.407	56.000	9.640	0.090	QP
6	1.642	8.223	-1.507	-37.777	46.000	9.640	0.090	AV
7	2.978	28.976	19.206	-27.024	56.000	9.650	0.120	QP
8	2.978	18.724	8.954	-27.276	46.000	9.650	0.120	AV
9	6.290	29.909	20.039	-30.091	60.000	9.680	0.190	QP
10	6.290	18.862	8.992	-31.138	50.000	9.680	0.190	AV
11	7.214	28.213	18.313	-31.787	60.000	9.690	0.210	QP
12	7.214	13.892	3.992	-36.108	50.000	9.690	0.210	AV







4. Emissions in restricted frequency bands

4.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2							
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date		
EMI Test Receiver	R&S	ESCI	100573	2016.03.05	2017.03.04		
Loop Antenna	R&S	HFH2-Z2	833799/003	2015.11.16	2016.11.17		
Bilog Chainenna	Teseq GmbH	CBL6112D	27611	2015.10.16	2016.10.15		
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2017.03.01		
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2016.01.04	2017.01.03		

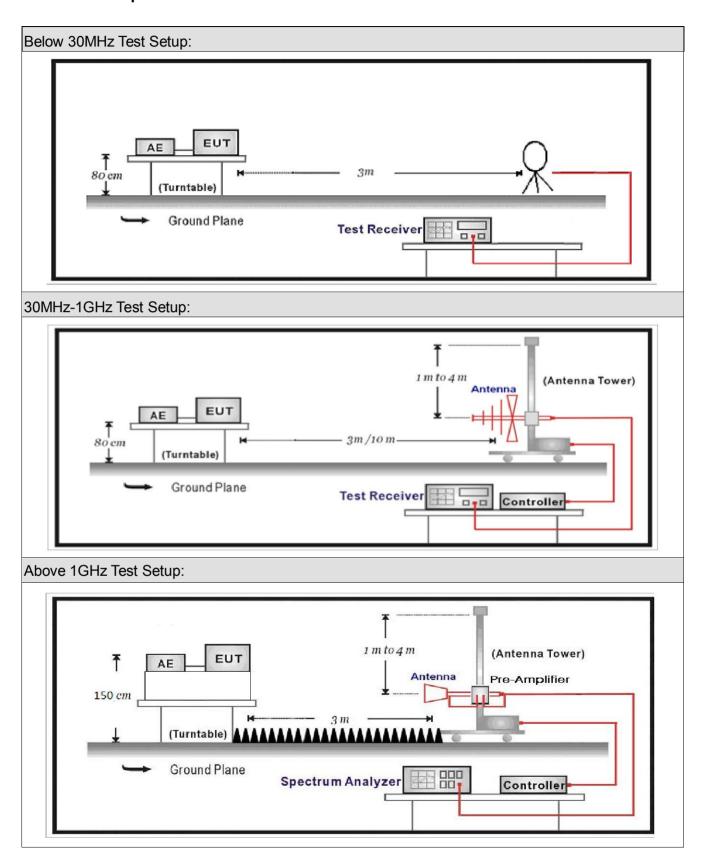
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Radiated Emission(Abo	ove 1GHz) / AC-5				
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2015.05.06	2016.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2015.05.06	2016.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21
Broad-Band Horn					
Antenna	Schwarzbeck	BBHA9170	294	2015.11.25	2016.11.24
		SUCOFLEX			
Coaxial Cable	Huber+Suhner	106	AC5-C1	2016.03.02	2017.03.01
		SUCOFLEX			
Coaxial Cable	Huber+Suhner	106	AC5-C2	2016.03.02	2017.03.01
		SUCOFLEX			
Coaxial Cable	Huber+Suhner	102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2015.06.10	2016.06.09
Temperature/Humidity					
Meter	Zhichen	ZC1-2	AC5-TH	2016.01.04	2017.01.03

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.



4.2. Test Setup





4.3. **Limit**

Restricted Bands of operation							
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)				
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15				
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46				
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75				
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5				
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2				
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5				
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7				
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4				
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5				
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2				
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4				
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12				
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0				
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8				
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5				
12.57675–12.57725	322 – 335.4	3600 – 4400					
13.36 – 13.41							



Restricted Band Emissions Limit							
Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)				
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)				
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)				
1.705 - 30	30	29.5	30 _(Note 1)				
30 - 88	100	40	3 _(Note 2)				
88 - 216	150	43.5	3 _(Note 2)				
216 - 960	200	46	3 _(Note 2)				
Above 960	500	54	3 _(Note 2)				

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).



4.4. Test Procedure

Test	Metho	od				
	Refer	ences	Rule)	Chapter	Description
	ANS	l C63.	10		11.11	Emissions in non-restricted frequency bands
		ANSI	C63	.10	11.11.2	Reference level measurement
		ANSI	C63	.10	11.11.3	Emission level measurement
	ANS	C63.	10		11.12	Emissions in restricted frequency bands
	\boxtimes	ANSI	C63	3.10	11.12.1	Radiated emission measurements
	\boxtimes	ANSI	C63	3.10	11.12.2.7	Radiated spurious emission test
		\boxtimes	ANSI C63.10			Radiated emissions from unlicensed wireless
			4410			devices below 30 MHz
			ANS	I C63.10		Radiated emissions from unlicensed wireless
						devices in the frequency range
			11101 000 10			of 30 MHz to 1000 MHz
			ANS	I C63.10		Radiated emissions from unlicensed wireless
						devices above 1 GHz
		ANSI	C63	3.10	11.12.2	Antenna-port conducted measurements
			ANS	I C63.10	11.12.2.3	Quasi-peak measurement procedure
		\boxtimes	ANS	I C63.10	11.12.2.4	Peak power measurement procedure
			ANS	I C63.10	11.12.2.5	Average power measurement procedures
				ANSI C63.10		Trace averaging with continuous EUT transmission at full power
				ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the
						EUT transmissions followed by
						duty cycle correction
			\boxtimes	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times
						of the EUT transmissions
						with max hold
L	<u> </u>	1			1	



4.5. EUT test Axis definition

Item	Emissions in non-restricted frequency bands							
Davies Category		Fixed position us	е					
Device Category		Mobile position use						
Test mode	Mode	: 1						
	\boxtimes	Radiated	Radiated					
		X Axis	Y	'Axis	Z Axis			
		Worst Axis	Worst A	Axis 🗌	Worst Axis ⊠			
		Conducted						
		⊠ Chain 1						
Test method		•						
		Chain 1			Chain 2			
			•	•				
		Worst Chain		Wor	st Chain			
		Chain 1	Cl	nain 2	Chain 3			
			• •	• •				
		Worst Chain	Worst	Chain 🗌	Worst Chain			



4.6. Test Result

Product Name	BLUETOOTH SPEAKER	Power	:	DC 3.3V
Test Mode	 Mode 1	Test Site	:	AC-5

Chain	СН	Antenna	Frequency	Reading	Factor	Measure	Limit	Margin	Detector
			(MHz)	Level	(dB)	Level	(dB μ V/m)	(dB)	
				(dB μ V/m)		(dB μ V/m)			
		Н	4824.0	44.0	7.3	51.3	54(note3)	2.7	PK
		Н	7230.5	32.8	12.7	45.5	54(note3)	8.5	PK
	1	Н	9644.5	28.8	14.9	43.7	54(note3)	10.3	PK
	ı	V	4823.9	43.8	7.3	51.1	54(note3)	2.9	PK
		V	7230.5	33.7	12.7	46.4	54(note3)	7.6	PK
		V	9644.5	32.1	14.9	47.0	54(note3)	7.0	PK
	6	Н	4876.0	41.7	7.4	49.1	54(note3)	4.9	PK
		Н	7311.0	27.6	12.5	40.1	54(note3)	13.9	PK
Ant O		Н	9748.0	26.0	14.8	40.8	54(note3)	13.2	PK
Ant 0		V	4876.0	40.0	7.4	47.4	54(note3)	6.6	PK
		V	7311.0	27.6	12.5	40.1	54(note3)	13.9	PK
		V	9748.0	26.7	14.8	41.5	54(note3)	12.5	PK
		Н	4927.0	42.3	7.5	49.8	54(note3)	4.2	PK
		Н	7386.0	25.3	12.3	37.6	54(note3)	16.4	PK
	11	Н	9848.0	22.0	15.3	37.3	54(note3)	16.7	PK
	11	V	4927.0	39.4	7.5	46.9	54(note3)	7.1	PK
		V	7386.0	23.9	12.3	36.2	54(note3)	17.8	PK
		V	9848.0	20.4	15.3	35.7	54(note3)	18.3	PK

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

Note: 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Note: 4. The RBW set up, see Clause 6.6..

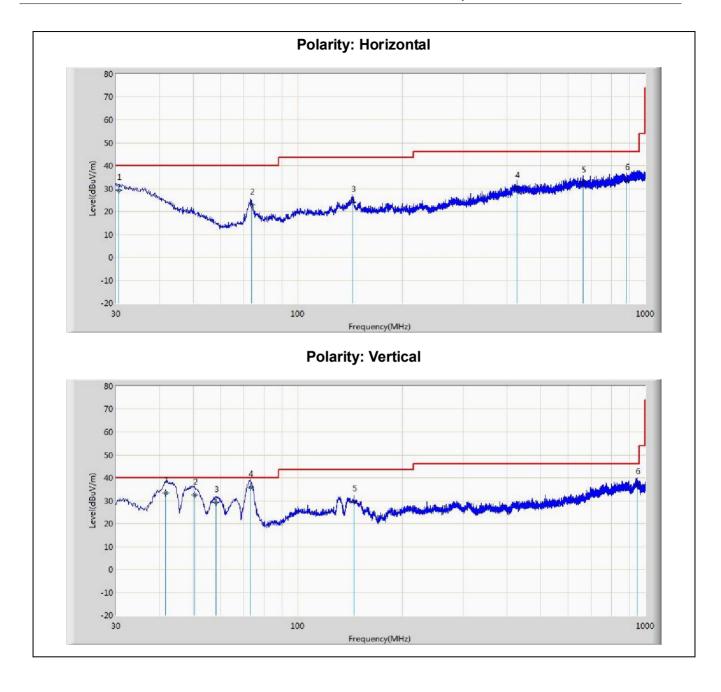


The worst case of Radiated Emission below 1GHz:

Chain	СН	Antenna	Frequency	Reading	Factor	Measure	Limit	Margin	Detector
			(MHz)	Level	(dB)	Level	(dB μ V/m)	(dB)	
				(dB μ V/m)		(dB μ V/m)			
		Н	30.5	33.3	-4.0	29.3	40.0	10.7	QP
		Н	73.7	38.6	-15.6	23.0	40.0	17.0	QP
		Н	143.9	34.9	-10.9	24.0	43.5	19.5	QP
	1	Н	427.9	34.3	-4.1	30.2	46.0	15.8	QP
		Н	663.2	33.1	-0.5	32.6	46.0	13.4	QP
Ant 0		Н	883.3	32.6	1.0	33.6	46.0	12.4	QP
Antu		V	41.8	43.8	-10.6	33.3	40.0	6.7	QP
		V	50.5	46.6	-14.1	32.4	40.0	7.6	QP
		V	58.1	44.6	-15.4	29.2	40.0	10.8	QP
		V	73.1	51.5	-15.6	35.8	40.0	4.2	QP
		V	145.2	40.6	-10.9	29.6	43.5	13.9	QP
		V	948.3	35.1	2.0	37.1	46.0	8.9	QP
Noto 1	·The		ase of Padia					3.0	<u> </u>

Note 1: The worst case of Radiated Emission below 1GHz:







5. Emissions in non-restricted frequency bands

5.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2										
Instrument Manufacturer Type No. Serial No. Cal. Date Cal. Due Date										
EMI Test Receiver	R&S	ESCI	100573	2016.03.05	2017.03.04					
Loop Antenna	R&S	HFH2-Z2	833799/003	2015.11.16	2016.11.17					
Bilog Chainenna	Teseq GmbH	CBL6112D	27611	2015.10.16	2016.10.15					
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2017.03.01					
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2016.01.04	2017.01.03					

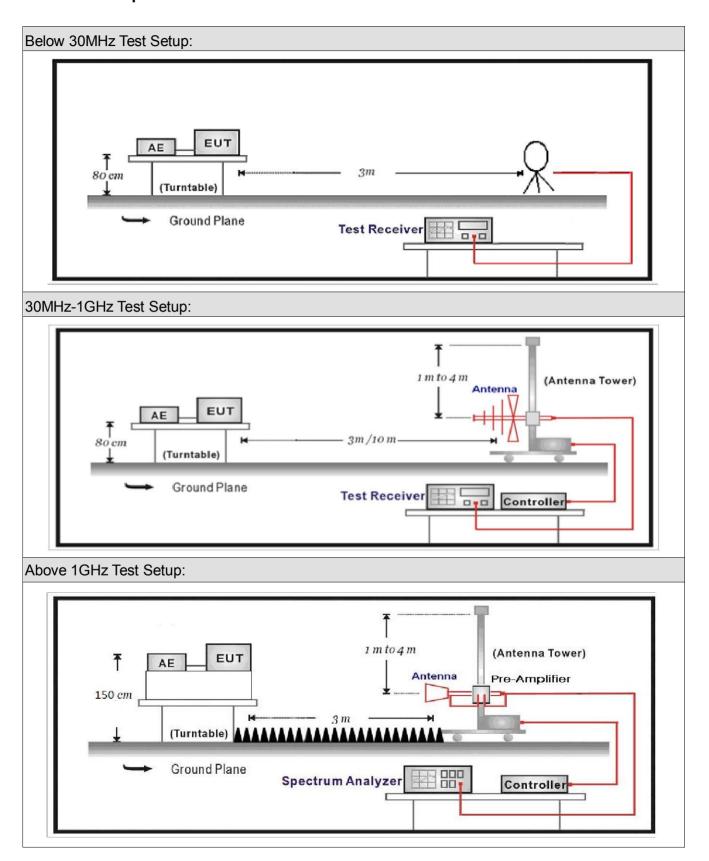
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Radiated Emission(Abo	ove TGHz) / AC-5				
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2016.03.05	2017.03.04
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2015.05.06	2016.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2015.05.06	2016.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21
Broad-Band Horn					
Antenna	Schwarzbeck	BBHA9170	294	2015.11.25	2016.11.24
		SUCOFLEX			
Coaxial Cable	Huber+Suhner	106	AC5-C1	2016.03.02	2017.03.01
		SUCOFLEX			
Coaxial Cable	Huber+Suhner	106	AC5-C2	2016.03.02	2017.03.01
		SUCOFLEX			
Coaxial Cable	Huber+Suhner	102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2015.06.10	2016.06.09
Temperature/Humidity					
Meter	Zhichen	ZC1-2	AC5-TH	2016.01.04	2017.01.03

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.



5.2. Test Setup





5.3. Limit

Un-Restricted Band Emissions Limit							
RF Output power (Detection methods)	Limit(dB)						
RF Output power(Average detector)	30c(Note1)						
RF Output power(PK detector)	20c(Note2)						

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

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5.4. Test Procedure

Test	est Method									
	Refer	ences	Rule)	Chapter	Description				
	ANS	I C63.	10		11.11	Emissions in non-restricted frequency bands				
		ANSI	C63	.10	11.11.2	Reference level measurement				
	\boxtimes	ANSI	C63	.10	11.11.3	Emission level measurement				
	ANS	C63.	.10		11.12	Emissions in restricted frequency bands				
		ANS	I C63	3.10	11.12.1	Radiated emission measurements				
		ANS	I C63	3.10	11.12.2.7	Radiated spurious emission test				
\boxtimes	ANS	C63.	.10		6.4	Radiated emissions from unlicensed wireless				
						devices below 30 MHz				
	ANSI C63.10				6.5	Radiated emissions from unlicensed wireless				
						devices in the frequency range				
						of 30 MHz to 1000 MHz				
	ANS	NSI C63.10			6.6	Radiated emissions from unlicensed wireless				
						devices above 1 GHz				
	\boxtimes	ANS	I C63	3.10	11.12.2	Antenna-port conducted measurements				
			ANS	I C63.10	11.12.2.3	Quasi-peak measurement procedure				
		\boxtimes	ANS	I C63.10	11.12.2.4	Peak power measurement procedure				
			ANS	I C63.10	11.12.2.5	Average power measurement procedures				
				ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission				
						at full power				
				ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the				
					EUT transmissions followed by					
						duty cycle correction				
				ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times				
						of the EUT transmissions				
						with max hold				



5.5. EUT test Axis definition

Item	Emissions in non-restricted frequency bands						
D : 0.4	\boxtimes	Fixed position us	е				
Device Category		Mobile position use					
Test mode	Mode	: 1					
		Radiated					
		X Axis	Y	Axis	Z Axis		
		Worst Axis	Worst A	Axis 🗌	Worst Axis		
		Conducted					
	\boxtimes	Chain 1					
Test method		•					
		Chain 1		Chain 2			
		• •					
		Worst Chain		Wor	st Chain		
		Chain 1	Cł	nain 2	Chain 3		
			•	• •			
		Worst Chain	Worst	Chain 🗌	Worst Chain		

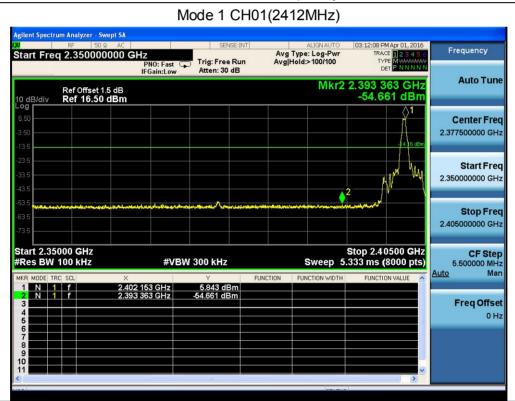


5.6. Test Result

Product Name	:	BLUETOOTH SPEAKER	Test Power	:	DC 5V
Test Site	:	TR8			

Mode	Channel	Test Frequency (MHz)	In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	00	2402	5.843	2400.00	-54.66	60.50	>30	Pass
1	39	2480	5.005	2483.50	-56.05	61.01	>30	Pass

Note: The worst case of Emissions in non-restricted frequency bands as below:





6. Radiated Emission Band Edge

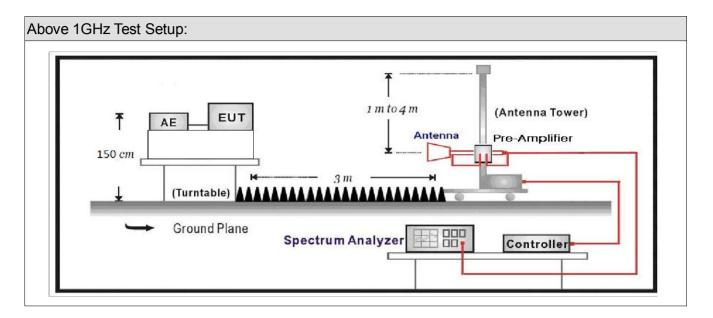
6.1. Test Equipment

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2015.05.06	2016.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2015.05.06	2016.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21
Broad-Band Horn					
Antenna	Schwarzbeck	BBHA9170	294	2015.11.25	2016.11.24
		SUCOFLEX			
Coaxial Cable	Huber+Suhner	106	AC5-C1	2016.03.02	2017.03.01
		SUCOFLEX			
Coaxial Cable	Huber+Suhner	106	AC5-C2	2016.03.02	2017.03.01
		SUCOFLEX			
Coaxial Cable	Huber+Suhner	102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2015.06.10	2016.06.09
Temperature/Humidity					
Meter	Zhichen	ZC1-2	AC5-TH	2016.01.04	2017.01.03

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.



6.2. Test Setup



6.3. Limit

Band edge Limit								
Frequency bands (MHz)	Detector	Limit (dB μV/m)	RBW (MHz)	Distance (m)				
2310-2390	PK	74	1	3				
2483.5-2500	AV	54	1	3				

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.



Test	Fest Method							
	Refe	ere	nces	Rule	;		Chapter	Description
	ANS	SI	I C63.10				6.10	Band-edge testing
		/	ANSI	C63	.10		6.10.5	Restricted-band band-edge measurements
		ŀ	ANSI	C63	.10		6.10.6	Marker-delta method
\boxtimes	ANS	SI	C63.	10			11.12	Emissions in restricted frequency bands
		1	ANSI	C63	3.10		11.12.1	Radiated emission measurements
		,	ANSI	C63	3.10		11.12.2.7	Radiated spurious emission test
	ANS	SI	C63.	10			6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	ANSI C63.10				6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz		
	ANS	SI	C63.	10			6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
		ļ	ANSI	C63	3.10		11.12.2	Antenna-port conducted measurements
				ANS	I C63.	10	11.12.2.3	Quasi-peak measurement procedure
			\boxtimes	ANS	I C63.	10	11.12.2.4	Peak power measurement procedure
				ANS	I C63.	10	11.12.2.5	Average power measurement procedures
					ANSI	C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
					ANSI	C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
					ANSI	C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

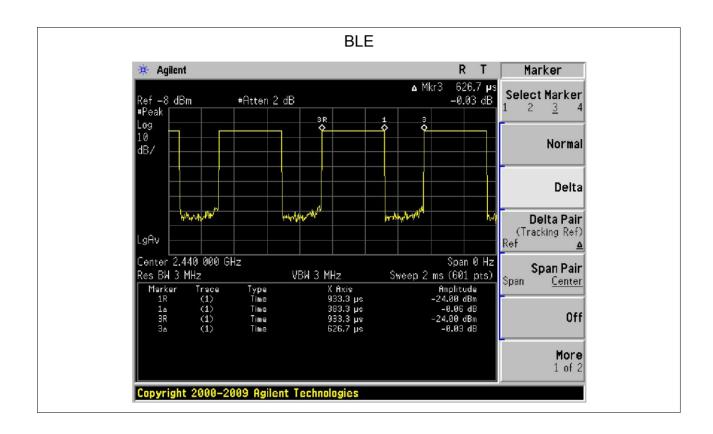


Item		Emissions in non-restricted frequency bands			
D. to Outro		Fixed position use	е		
Device Category		Mobile position us			
Test mode	Mode	1			
		Radiated			
		X Axis	Y	Axis	Z Axis
		Worst Axis	Worst A	axis 🗌	Worst Axis ⊠
		☐ Conducted ☐ Chain 1			
Test method		•			
		Chain 1			Chain 2
		• •			
		Worst Chain		Wor	st Chain 🗌
		Chain 1	Ch	nain 2	Chain 3
			• •	•	
		Worst Chain	Worst	Chain 🗌	Worst Chain



6.6. Duty Cycle

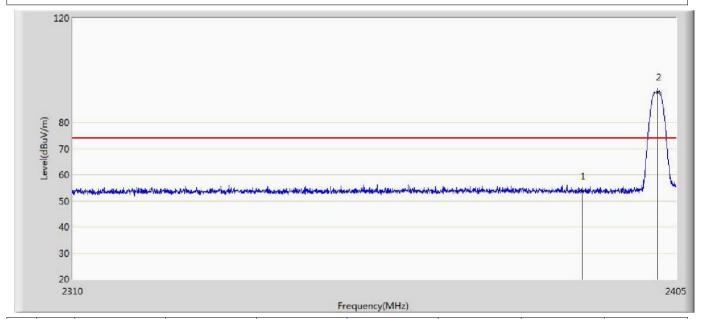
Test Mode	Tx On	Tx Off	VBW	Tx On + Tx Off	Duty Cycle	
rest wode	(ms)	(ms)	(kHz)	(ms)	Duty Cycle	
BLE	0.3833	0.2434	2.7	0.6267	BLE	





6.7. Test Result

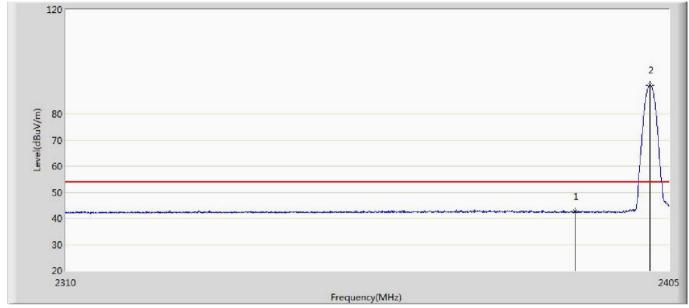
Engineer:				
Site: AC5	Time: 2016/4/1			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal			
EUT: BLUETOOTH SPEAKER	Power: AC 120V/60Hz			
Note: Mode 1 Transmit at CH2402 by BLF				



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	53.499	15.636	-20.501	74.000	37.863	PK
2	*	2402.055	91.736	53.896	N/A	N/A	37.840	PK



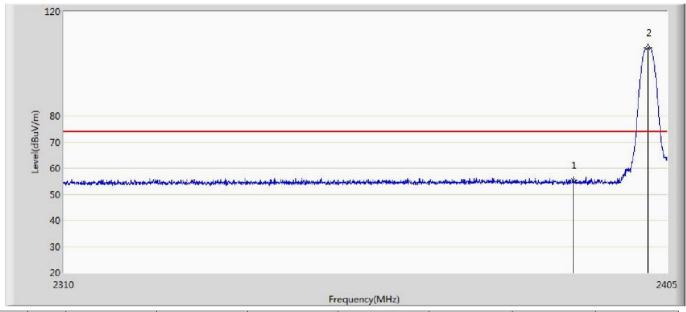
Engineer:				
Site: AC5	Time: 2016/4/1			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal			
EUT: BLUETOOTH SPEAKER	Power: AC 120V/60Hz			
Note: Mode 1 Transmit at CH2402 by BLE				



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	42.691	4.828	-11.309	54.000	37.863	AV
2	*	2401.913	91.058	53.218	N/A	N/A	37.840	AV



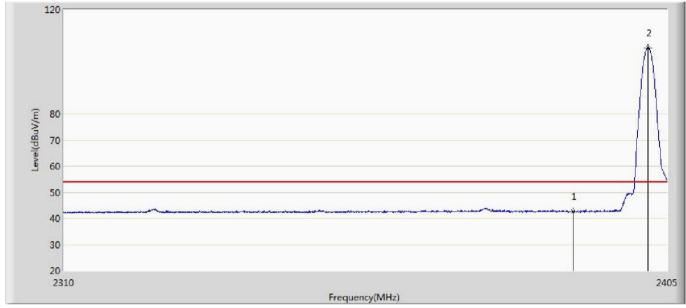
Engineer:				
Site: AC5	Time: 2016/4/1			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical			
EUT: BLUETOOTH SPEAKER	Power: AC 120V/60Hz			
Note: Mode 1 Transmit at CH2402 by BLF				



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	55.433	17.570	-18.567	74.000	37.863	PK
2	*	2401.913	105.977	68.137	N/A	N/A	37.840	PK



Engineer:				
Site: AC5	Time: 2016/4/1			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical			
EUT: BLUETOOTH SPEAKER Power: AC 120V/60Hz				
Note: Mode 1 Transmit at CH2402 by BLE				

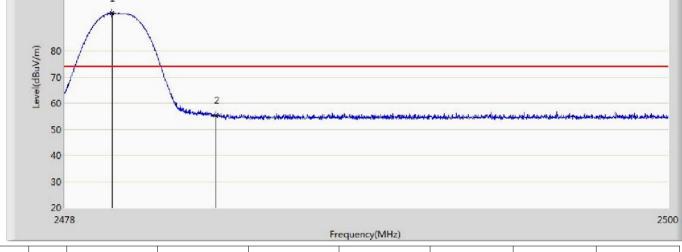


No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	42.584	4.721	-11.416	54.000	37.863	AV
2	*	2401.913	105.356	67.516	N/A	N/A	37.840	AV



Engineer:				
Site: AC5	Time: 2016/4/1			
Limit: FCC_Part15.209_RE(3m)	Margin: 0			
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal			
EUT: BLUETOOTH SPEAKER	Power: AC 120V/60Hz			
Note: Mode 1 Transmit at CH2480 by BLF				

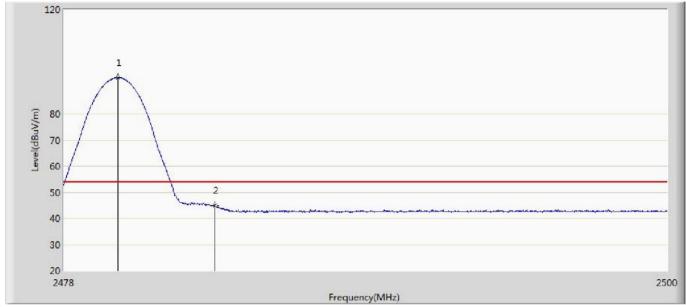
120



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	2479.716	94.435	56.424	N/A	N/A	38.012	PK
2		2483.500	55.451	17.413	-18.549	74.000	38.038	PK



Engineer:	
Site: AC5	Time: 2016/4/1
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: BLUETOOTH SPEAKER	Power: AC 120V/60Hz
Note: Mode 1 Transmit at CH2480 by BLF	·

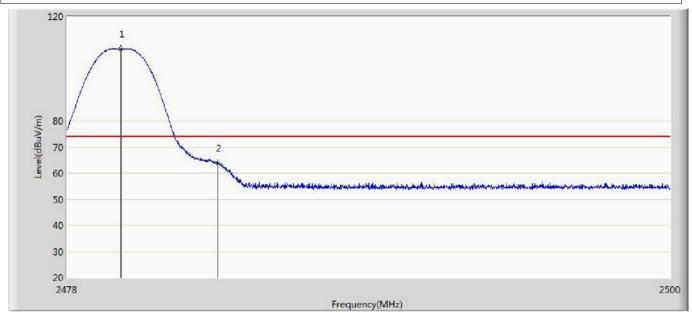


No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	2479.980	93.857	55.844	N/A	N/A	38.013	AV
2		2483.500	44.785	6.747	-9.215	54.000	38.038	AV



Engineer:	
Site: AC5	Time: 2016/4/1
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: BLUETOOTH SPEAKER	Power: AC 120V/60Hz
Note: Made 1 Transmit at CH2490 by DLF	

Note: Mode 1 Transmit at CH2480 by BLE

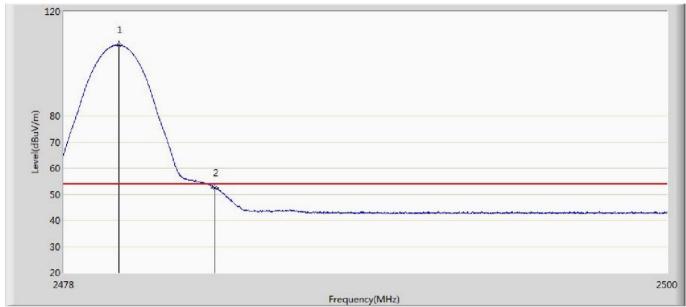


No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	2479.980	107.567	69.554	N/A	N/A	38.013	PK
2		2483.500	63.765	25.727	-10.235	74.000	38.038	PK



Engineer:	
Site: AC5	Time:2016/4/1
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: BLUETOOTH SPEAKER	Power: AC 120V/60Hz
Note: Made 1 Transmit at CH2490 by DLC	

Note: Mode 1 Transmit at CH2480 by BLE



No	Mark	Frequency	Measure Level	Reading Level	Reading Level Over Limit		Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	2479.991	107.131	69.118	N/A	N/A	38.013	AV
2		2483.500	52.558	14.520	-1.442	54.000	38.038	AV



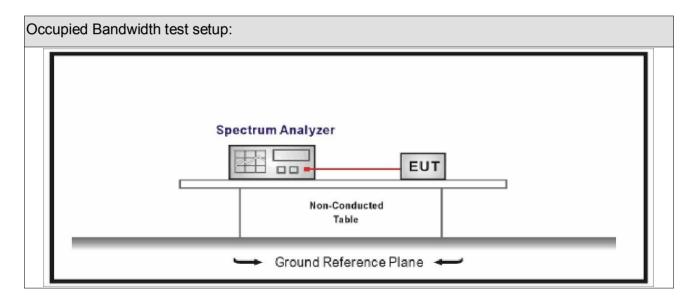
7. Occupied Bandwidth

7.1. Test Equipment

Occupied Bandwidth / TR-8									
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date				
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03				
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10				
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2015.04.10	2016.04.09				

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup





7.3. Limit

Occupied Bandwidth

Systems using digital modulation techniques operate in the 2400-2483.5 MHz . The minimum 6 dB bandwidth shall be at least 500 kHz

Test	Test Method										
	Reference Rule	Chapter	Description								
	ANSI C63.10	11.8	DTS bandwidth								
	☐ ANSI C63.10	11.8.1	Option 1								
	ANSI C63.10	11.8.2	Option 2								



Item	Occupied Bandwidth					
D. to Outro		Fixed position use	е			
Device Category		Mobile position us	se			
Test mode	Mode	1,Mode 2, Mode 3,	,Mode 4			
		Radiated				
		X Axis	Y	Axis	Z Axis	
		Worst Axis	Worst A	xis 🗌	Worst Axis	
		Conducted				
		Chain 1				
Test method		•				
		Chain 1		(Chain 2	
			•	•		
		Worst Chain		Wor	st Chain	
		Chain 1	Ch	ain 2	Chain 3	
			• •	•		
		Worst Chain	Worst (Chain 🗌	Worst Chain	



7.6. Test Result

Product Name	:	BLUETOOTH SPEAKER	Test Power	:	DC 5V
Test Site	:	TR-8			

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (kHz) Ant 0	6dB Occupied Bandwidth (kHz) Ant 0	Limit (kHz)	Result
1	00	2402	1204.7	932.9	>500	Pass
1	19	2440	1049.2	706.9	>500	Pass
1	39	2480	1048.2	708.3	>500	Pass

Note: The worst case of Occupied Bandwidth as below:

Mode 1 CH00 (2402MHz)





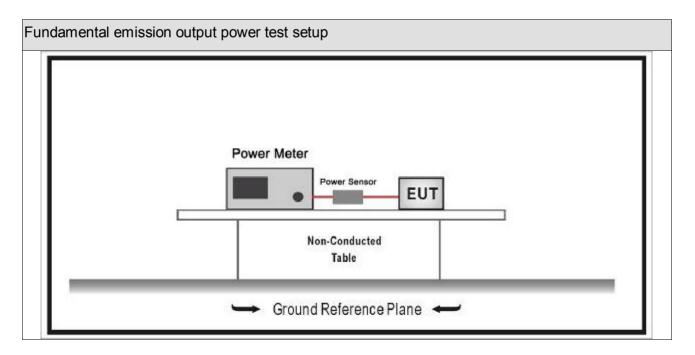
8. Fundamental emission output power

8.1. Test Equipment

Fundamental emission output power/ TR-8									
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date				
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03				
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10				
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2015.11.11	2016.11.10				
Power Sensor	Anritsu	MA2411B	0846014	2015.11.11	2016.11.10				
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2015.04.10	2016.04.09				

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

8.2. Test Setup





8.3. Limit

Fund	undamental emission output power Limit							
\boxtimes	Gтх ≺	<6dBi	P _{out} ≤30dBm					
	Gтx 🗦	>6dBi						
		Non-Fix point-point	P _{out} ≤30-(G⊤x -6)					
		Fix point-point	P _{out} ≤30-[(G⊤x-6)]/3					
		Point-to-multipoint	P _{out} ≤30-(G⊤x-6)					
		Overlap Beams	P _{out} ≤30-[(G⊤x-6)]/3					
		Aggregate power transmitted simultaneously on all beams	P _{out} ≤30-[(G⊤x-6)]/3					
		single directional beam	P _{out} ≤30-[(G⊤x-6)]/3+8dB					
		TX directional gain of training maximum peak cor	•					
NOLE	Z . P	out is maximum peak cor	iducted output power.					

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Fund	Fundamental emission output power Test Method									
		Refe	erence	es Rule	Chapter	Description				
	ANSI	C63.1	10		11.9	Fundamental emission output power				
		ANSI	C63.	10	11.9.1	Maximum peak conducted output power				
			ANSI	C63.10	11.9.1.1	RBW ≥ DTS bandwidth				
			ANSI	C63.10	11.9.1.2	Integrated band power method				
			ANSI	C63.10	11.9.1.3	PKPM1 Peak power meter method				
		ANSI	C63.	10	11.9.2	Maximum conducted (average) output power				
			ANSI	C63.10	11.9.2.2	Measurement using a spectrum analyzer (SA)				
				ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle≥98%)				
				ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle≥98%)				
				ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle≤98%)				
				ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle≤98%)				
				ANSI C63.10	11.9.2.2.4	Method AVGSA-3				
				ANSI C63.10	11.9.2.2.5	Method AVGSA-3A				
			☐ ANSI C63.10		11.9.2.3	Measurement using a power meter (PM)				
			☐ ANSI C63.10		11.9.2.3.1	Method AVGPM				
				ANSI C63.10	11.9.2.3.2	Method AVGPM-G				



Item	Fundamental emission output power							
Daving October		Fixed position use	е					
Device Category		Mobile position use						
Test mode	Mode	:1						
		Radiated						
		X Axis	Y	Axis	Z Axis			
		Worst Axis	Worst A	axis 🗌	Worst Axis			
		☐ Conducted☐ Chain 1						
Test method		•						
		Chain 1			Chain 2			
			•					
		Worst Chain		Wors	st Chain 🗌			
		Chain 1	Ch	nain 2	Chain 3			
			• •	•				
		Worst Chain	Worst	Chain 🗌	Worst Chain			



8.6. Test Result

Product Name	:	BLUETOOTH SPEAKER	Test Power	:	DC 3.3V
Test Site	:	TR8			

Mode	Channel	Test Frequency (MHz)	Measurement Power Output (dBm)	Total Power (dBm)	Limit (dBm)	Result
1	00	2402	0.58	0.58	30	Pass
1	19	2440	2.37	2.37	30	Pass
1	39	2480	2.94	2.94	30	Pass



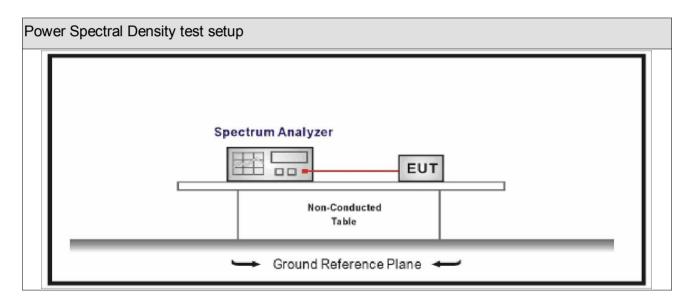
9. Power Spectral Density

9.1. Test Equipment

Power Spectral Density / TR-8									
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date				
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03				
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10				
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2015.04.10	2016.04.09				

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

9.2. Test Setup



9.3. Limit

Power Spectral Density Limit	
Power Spectral Density≤8dBm/3kHz	



Powe	r Spe	ctral Density Test Method		
		References Rule	Chapter	Description
	ANSI	C63.10	11.10	Maximum power spectral density level in the fundamental emission
		ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
		ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle≥98%)
		ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle≥98%)
		ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle < 98%)
		ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle<98%)
		ANSI C63.10	11.10.7	Method AVGPSD-3
		ANSI C63.10	11.10.8	Method AVGPSD-3A



Item		Power Spe	ctral Den	sity Test Me	ethod		
Device Category		Fixed position use	е				
Device Category		Mobile position use					
Test mode	Mode	: 1					
		Radiated					
		X Axis	Y	Axis	Z Axis		
		Worst Axis	Worst A	xis 🗌	Worst Axis		
		Conducted					
			Cha	ain 1			
Test method		•					
		Chain 1			Chain 2		
			•	•			
		Worst Chain		Wor	st Chain 🗌		
		Chain 1	Ch	ain 2	Chain 3		
			• •	•			
		Worst Chain	Worst (Chain 🗌	Worst Chain		



9.6. Test Result

Product Name	:	BLUETOOTH SPEAKER	Test Power	:	DC 5V
Test Site	:	TR8			

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz) Ant 0	Total PSD (dBm/3kHz)	Directional Gain (dBi)	Limit (dBm/3kHz)	Result
1	00	2402	-13.545	-13.545	-0.53	8	Pass
1	19	2440	-12.045	-12.045	-0.53	8	Pass
1	39	2480	-10.864	-10.864	-0.53	8	Pass

Mode 1 CH39(2480MHz)



The End ————