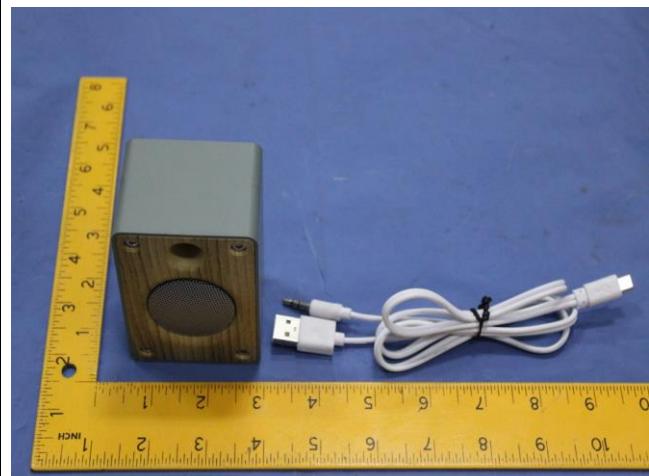


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Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	632551	Auftragsdatum: <i>Order date:</i>	27.10.2016		
Auftraggeber: <i>Client:</i>	THUMBS UP(UK) LTD Unit L, Braintree Industrial Estate, Braintree Road HA4 0EJ, Ruislip London, United Kingdom				
Prüfgegenstand: <i>Test item:</i>	MINI HI-FI SPEAKER				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	HIFISPKPRM (PRIMARK)				
Auftrags-Inhalt: <i>Order content:</i>	FCC Certification and Verification				
Prüfgrundlage: <i>Test specification:</i>	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 v06 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109				
Wareneingangsdatum: <i>Date of receipt:</i>	02.12.2016				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000461371 001-006				
Prüfzeitraum: <i>Testing period:</i>	11.12.2016 - 12.12.2016				
Ort der Prüfung: <i>Place of testing:</i>	Shenzhen Accurate Technology Co., Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by: <i>Winnie Hou</i> 05.01.2017 Winnie Hou / Senior Project Manager	kontrolliert von / reviewed by: <i>Sam Lin</i> 09.01.2017 Sam Lin / Technical Certifier				
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other:	FCC ID: 2AHHEHIFISPKPRM				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>				
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n)	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft
Legend: P(ass) = passed a.m. test specification(s)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	F(ail) = failed a.m. test specification(s)	N/A = nicht anwendbar	N/T = nicht getestet	
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <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>					



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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 100KHZ 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

5.1.10 RADIATED EMISSION

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

Shenzhen Accurate Technology Co., Ltd.

F1, Bldg. A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China

FCC Registration No.: 752051

Test site Industry Canada No.: 5077A-2

The tests at the test site have been conducted under the supervision of a TÜV engineer.

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Spurious emission and Radiated emission				
Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	2017-01-09
Test Receiver	Rohde&Schwarz	ESCS30	100307	2017-01-09
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2017-01-09
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2017-01-09
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2017-01-09
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2017-01-09
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2017-01-09
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	2017-01-09
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	ESPI3	100396/003	2017-01-09
Spectrum Analyzer	Agilent	E7405A	MY45115511	2017-01-09
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2017-01-09
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2017-01-09
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2017-01-09
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2017-01-09

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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 basics using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3\text{dB}$.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Shenzhen Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is MINI HI-FI Speaker which supports Bluetooth function.
The model number was BT1059 during test period, while it was changed to HIFISPKPRM finally by license holder.
For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	MINI HI-FI SPEAKER
Type Designation:	HIFISPKPRM
FCC ID	2AHHEHIFISPKPRM

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

Technical Specification	Value
Operating Frequency band	2402 – 2480 MHz
Bluetooth Core Version	4.1
Channel Number	79 channels
Channel separation	1MHz
Extreme Temperature Range	-20°C to +55°C
Operation Voltage	DC 3.7V via lithium Battery DC 5.0V via USB port for charging
Modulation	GFSK, 8DPSK, π/4DQPSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	0dBi
RF Output Power	0.00082W (-0.88dBm)

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

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, Bluetooth Transmitting mode (BDR & EDR)
 - 1. low channel
 - 2. middle channel
 - 3. high channel
- B. On, Bluetooth hopping mode
- C. On, Play with Aux-in
- D. Charging
- E. Off

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3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Technical Description
- Circuit Diagram
- Instruction Manual
- Rating Label

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 and ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested with following accessories:

Description	Manufacturer	Type	S/N
iPhone6S PLUS	Apple	ML6D2 CH/A	C35QJ76JGRWM
Notebook	LENOVO	ThinkPad X240	N/A
Printer	HP	HP Laserjet 1015	CNFG030424

4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

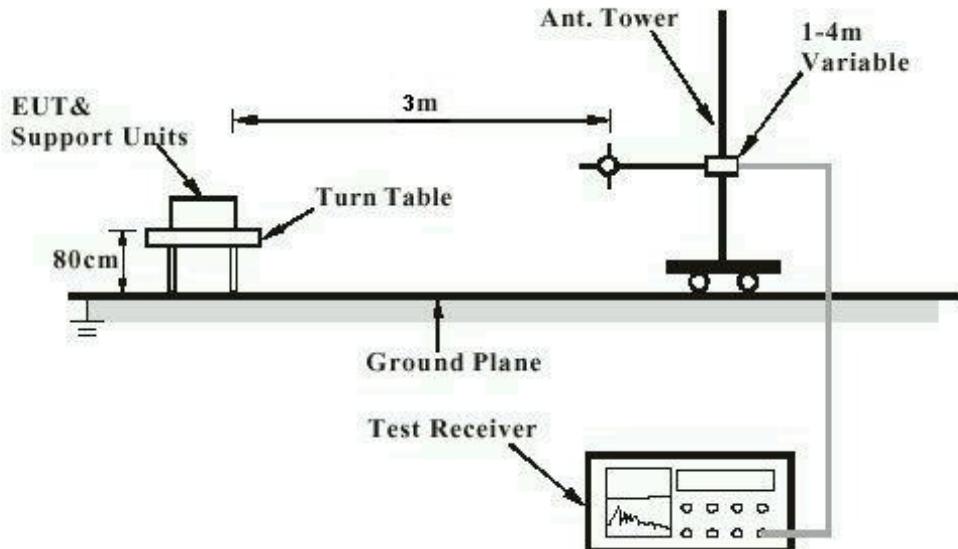
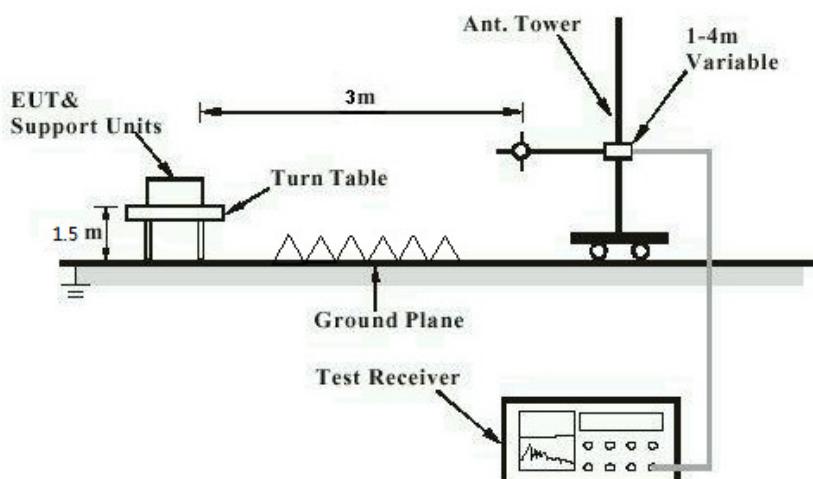


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



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Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

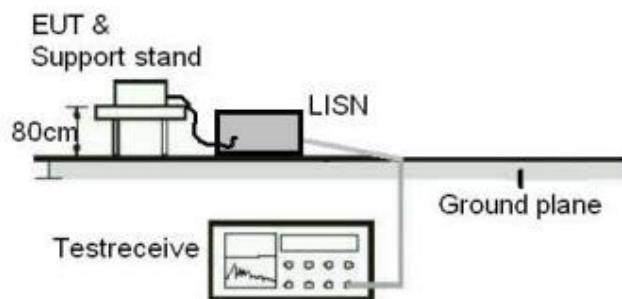
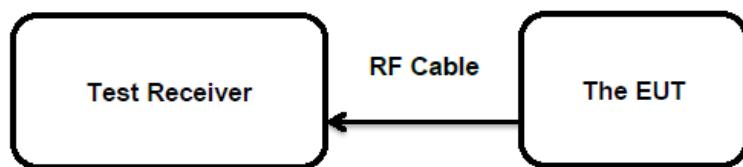


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



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5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test standard : FCC Part 15.247(b)(4) and Part 15.203
Limit : 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 0dBi, 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.

Refer to EUT photo for details.

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5.1.2 Peak Output Power

RESULT:**Passed**

Test date	:	2016-12-11
Test standard	:	FCC Part 15.247(b)(1)
Basic standard	:	ANSI C63.10: 2013
Limit	:	FHSS < 0.125 Watts
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	25°C
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

Table 5: Test result of Peak Output Power

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BDR	2402	-0.88	0.00082	< 0.125
	2441	-1.82	0.00066	
	2480	-2.68	0.00054	
EDR	2402	-0.97	0.00080	< 0.125
	2441	-1.83	0.00066	
	2480	-2.65	0.00054	

Note: The cable loss is taken into account in results.

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5.1.3 Conducted spurious emissions measured in 100kHz Bandwidth

RESULT:

Passed

Date of testing	:	2016-12-11
Test standard	:	FCC part 15.247(d)
Basic standard	:	ANSI C63.10: 2013
Limit	:	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	:	Shield room

Test setup

Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	25°C
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

All emissions are more than 20dB below fundamental, details refer to Appendix 1, and compliance is achieved as well.

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5.1.4 Spurious Emission

RESULT:

Passed

Date of testing	:	2016-12-11
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

Test Channel	:	Low/ Middle/ High
Operation mode	:	A
Ambient temperature	:	25°C
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

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 9kHz to the tenth harmonics.

For details refer to Appendix 1.

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5.1.5 20dB Bandwidth

RESULT:**Passed**

Date of testing : 2016-12-11
Test standard : FCC Part 15.247(a)(1)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 25°C
Relative humidity : 55%
Atmospheric pressure : 101 kPa

Table 6: Test result of 20dB Bandwidth

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)
BDR	2402	1081.0	720.667	/
	2441	1085.4	723.600	
	2480	1081.0	720.667	
EDR	2402	1337.2	891.467	/
	2441	1337.2	891.467	
	2480	1337.2	891.467	

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5.1.6 Frequency Separation

RESULT:**Passed**

Date of testing : 2016-12-11
Test standard : FCC part 15.247(a)(1)
Basic standard : ANSI C63.4: 2003
Limit : $\geq 25\text{kHz}$ or 2/3 of 20dB bandwidth, whichever is greater

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : B
Ambient temperature : 25°C
Relative humidity : 55%
Atmospheric pressure : 101 kPa

Table 7: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1	$\geq 25\text{kHz}$ or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1	$\geq 25\text{kHz}$ or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2480	1	$\geq 25\text{kHz}$ or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2479			

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5.1.7 Number of hopping frequency

RESULT:**Passed**

Date of testing	:	2016-12-11
Test standard	:	FCC part 15.247(a)(1)(iii)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	B
Ambient temperature	:	25°C
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

Table 8: Test result of Number of hopping frequency

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

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5.1.8 Time of Occupancy

RESULT:

Passed

Date of testing	:	2016-12-11
Test standard	:	FCC part 15.247(a)(1)(iii)
Basic standard	:	ANSI C63.10: 2013
Limits	:	<0.4s
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	25°C
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

Table 9: Test result of Time of Occupancy

Test Mode	Channel	Data Packet	Pulse width (ms)	Measured Dwell time(s)	Limit (s)
BDR mode	2402	DH1	0.449	0.144	< 0.4s
		DH3	1.681	0.269	
		DH5	2.986	0.319	
	2441	DH1	0.391	0.125	
		DH3	1.696	0.271	
		DH5	2.964	0.316	
	2480	DH1	0.377	0.121	
		DH3	1.681	0.269	
		DH5	2.986	0.319	
EDR mode	2402	3DH1	0.449	0.144	< 0.4s
		3DH3	1.739	0.278	
		3DH5	2.957	0.315	
	2441	3DH1	0.449	0.144	
		3DH3	1.696	0.271	
		3DH5	3.0	0.320	
	2480	3DH1	0.449	0.144	
		3DH3	1.681	0.269	
		3DH5	2.978	0.318	

Note:

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

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

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5.1.9 Conducted emissions

RESULT:

Passed

Date of testing	:	2016-12-11
Test standard	:	FCC Part 15.107(a) & FCC Part 15.207(a)
Basic standard	:	ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a) & FCC Part 15.207(a)
Kind of test site	:	Shield room

Test setup

Input Voltage	:	AC 120V, 60Hz via AC/DC Adapter of Notebook
Operation Mode	:	B, C+D
Earthing	:	Not connected
Ambient temperature	:	25°C
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

For details refer to Appendix 1.

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5.1.10 Radiated Emission

RESULT:

Passed

Date of testing	:	2016-12-11
Test standard	:	FCC Part 15.109(a) & FCC Part 15.209(a)
Basic standard	:	ANSI C63.4: 2014
Frequency range	:	30 - 6000MHz
Classification	:	Class B
Limit	:	FCC Part 15.109(a) & FCC Part 15.209(a)
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Input Voltage	:	AC 120V, 60Hz via AC/DC Adapter of Notebook
Operation mode	:	C+D
Earthing	:	Not connected
Ambient temperature	:	Refer to Appendix 1
Relative humidity	:	Refer to Appendix 1
Atmospheric pressure	:	Refer to Appendix 1

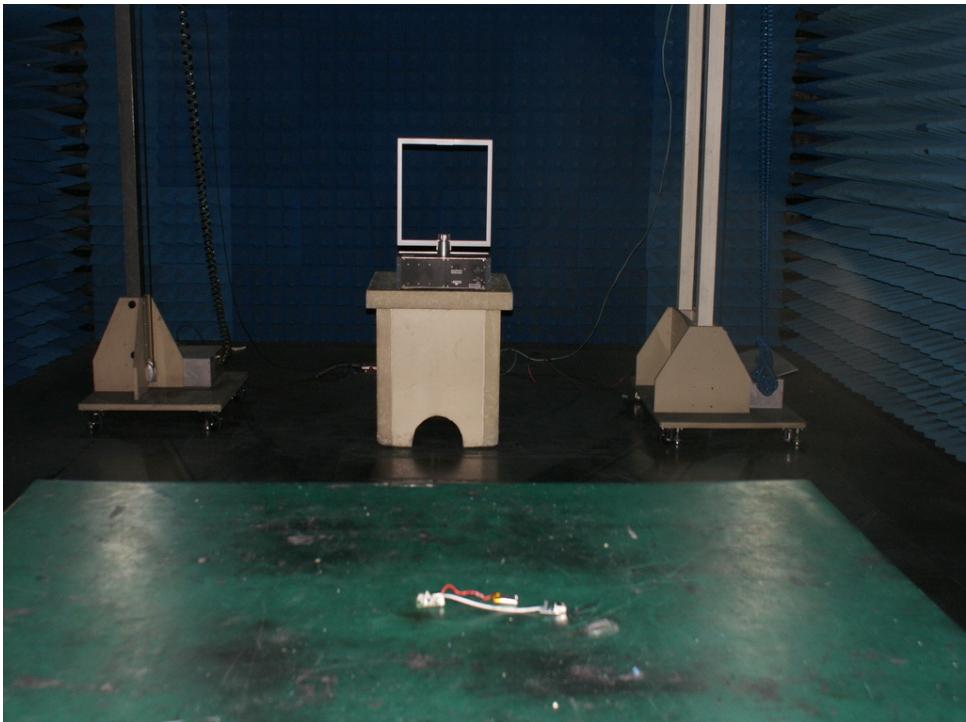
Test data refer to Appendix 1.

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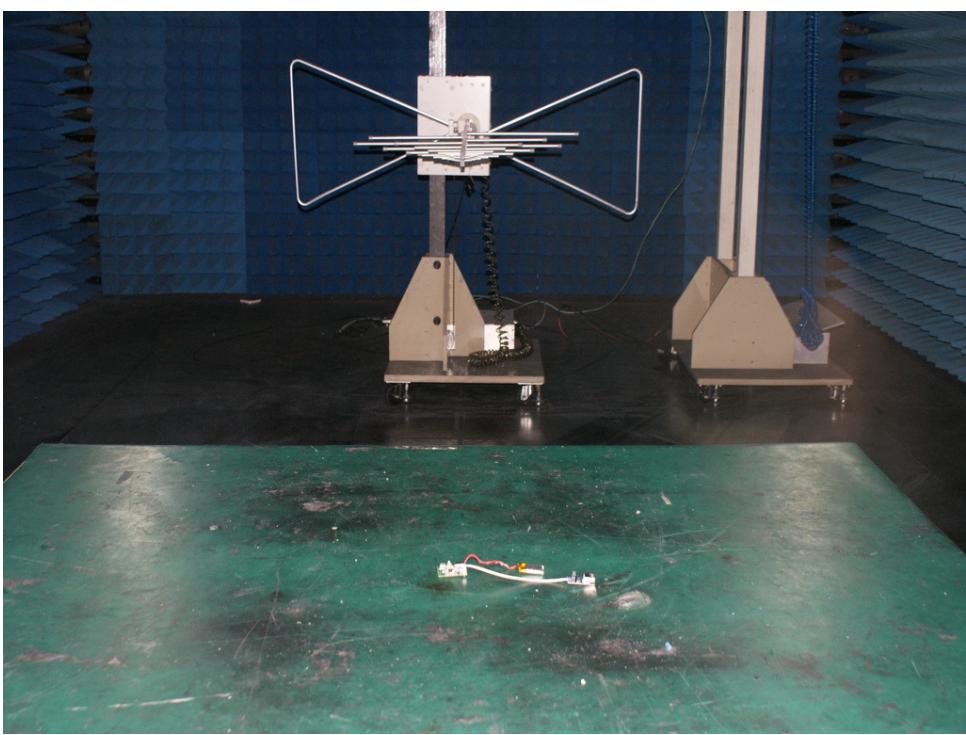
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6. Photographs of the Test Set-Up

Photograph 1: Set-up for Spurious Emissions (9kHz-30MHz)



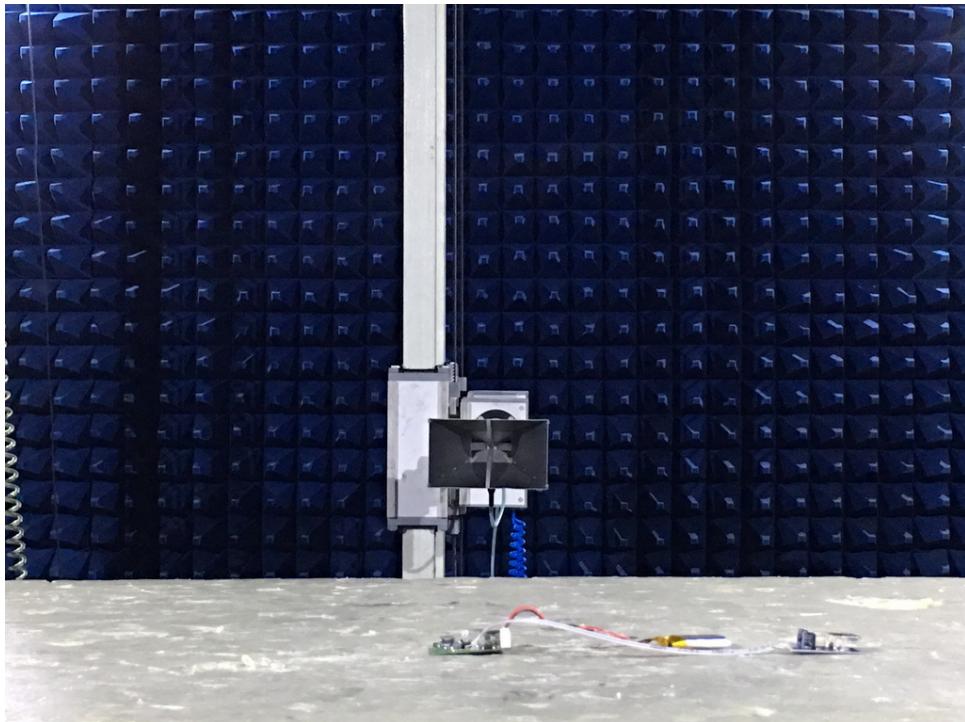
Photograph 2: Set-up for Spurious Emissions (30MHz-1GHz)



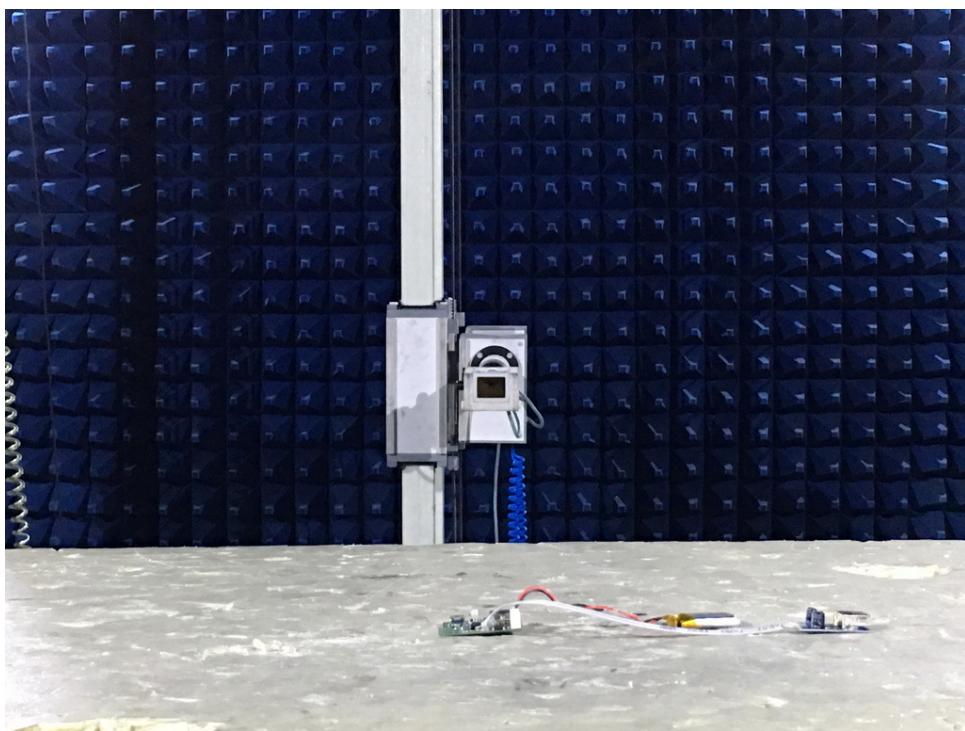
Prüfbericht - Nr.: 50067452 001
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Photograph 3: Set-up for Spurious Emissions (1GHz-18GHz)



Photograph 4: Set-up for Spurious Emissions (18GHz-26GHz)



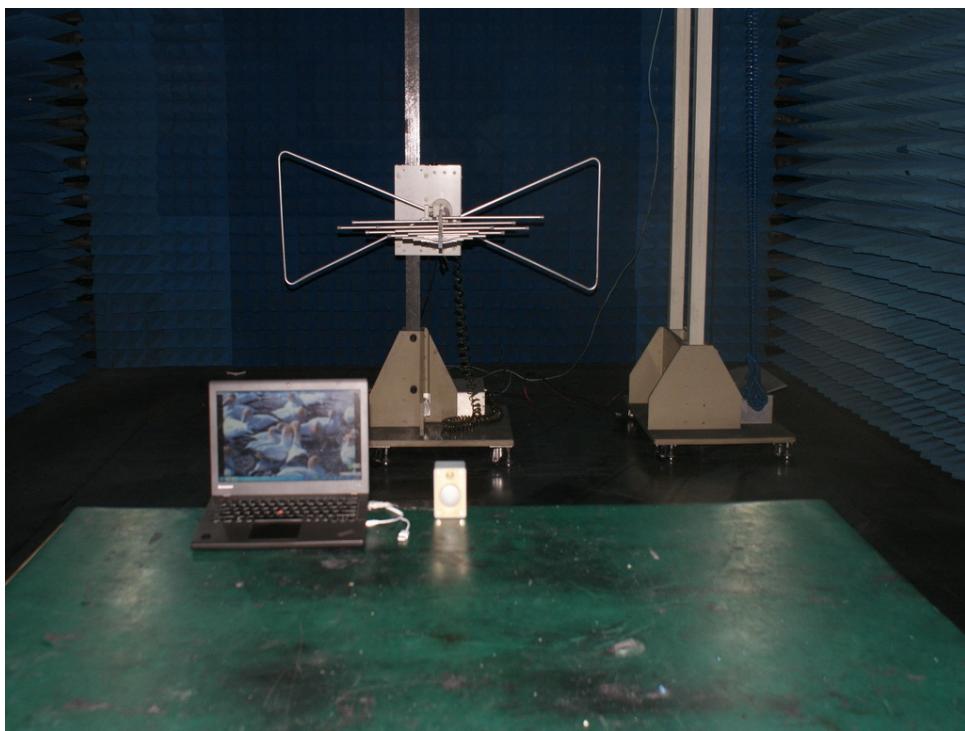
Prüfbericht - Nr.: 50067452 001
Test Report No.

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Photograph 5: Set-up for Conducted Emissions



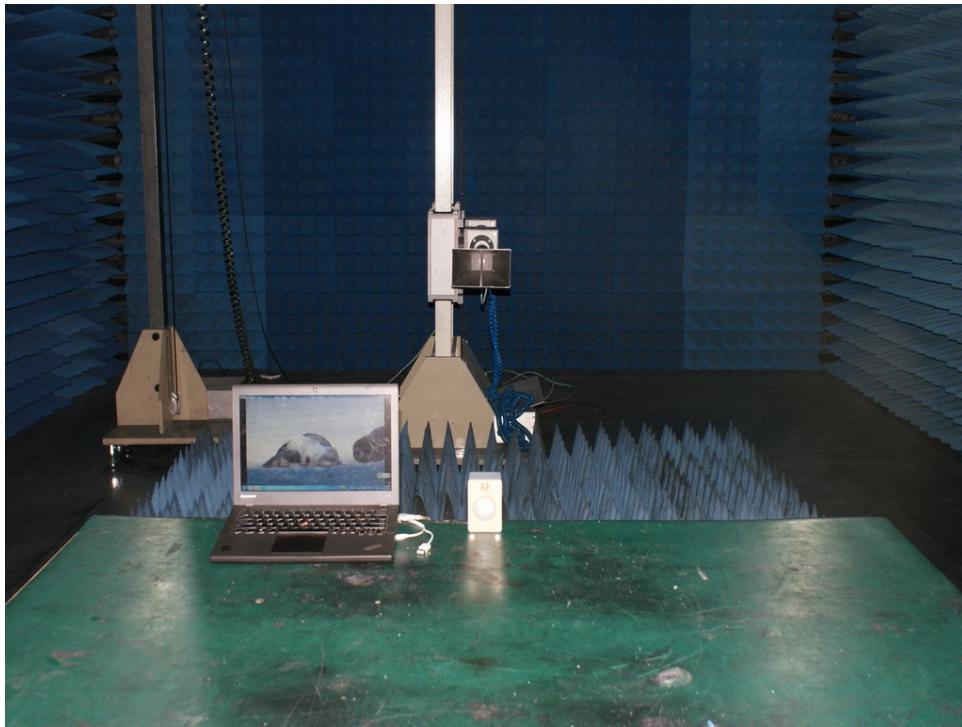
Photograph 6: Set-up for Radiated Emissions, below 1GHz



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Test Report No.

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Photograph 7: Set-up for Radiated Emissions, above 1GHz



Prüfbericht - Nr.: 50067452 001
Test Report No.

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Figure 1: Test figure of spurious emissions, mode A.1, Horizontal polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: Bluetooth Speaker M/N:BT1059
Manufacturer:
Operating Condition: TX 2402MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 3.7V
Comment: X

SCAN TABLE: "LFRE_Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer Bandw.
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

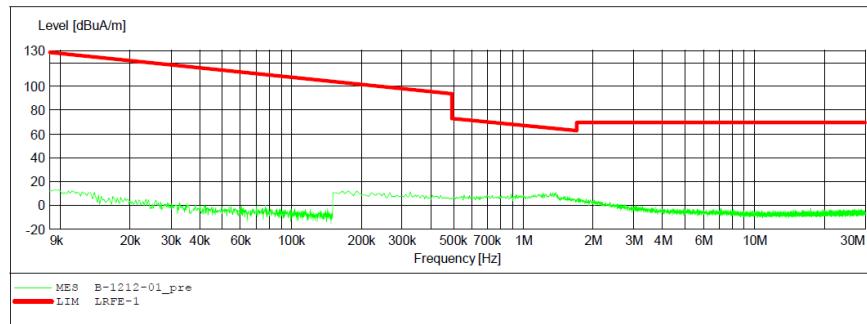


Figure 2: Test figure of spurious emissions, mode A.1, Vertical polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: Bluetooth Speaker M/N:BT1059
Manufacturer:
Operating Condition: TX 2402MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 3.7V
Comment: Y

SCAN TABLE: "LFRE_Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer Bandw.
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

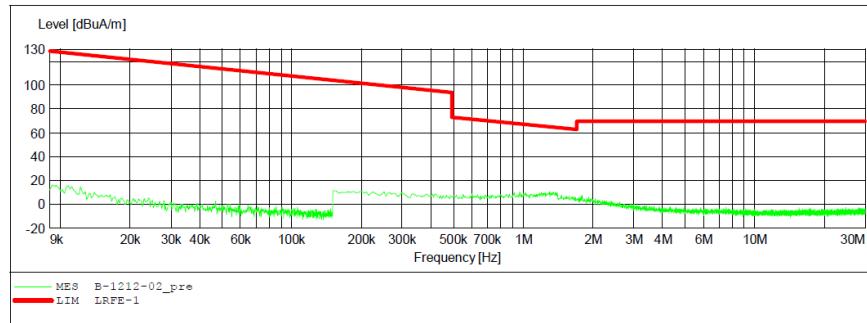


Figure 3: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 1GHz)

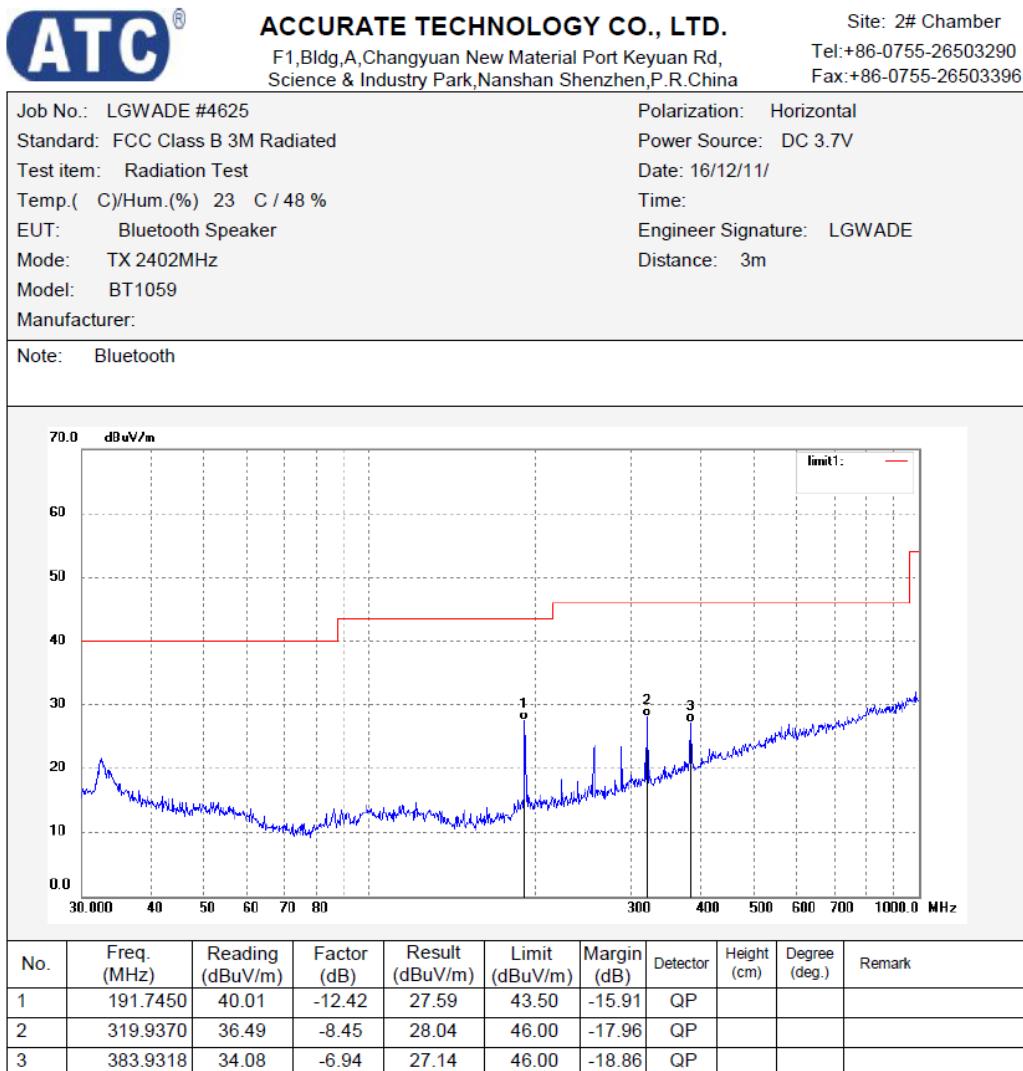


Figure 4: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 1GHz)

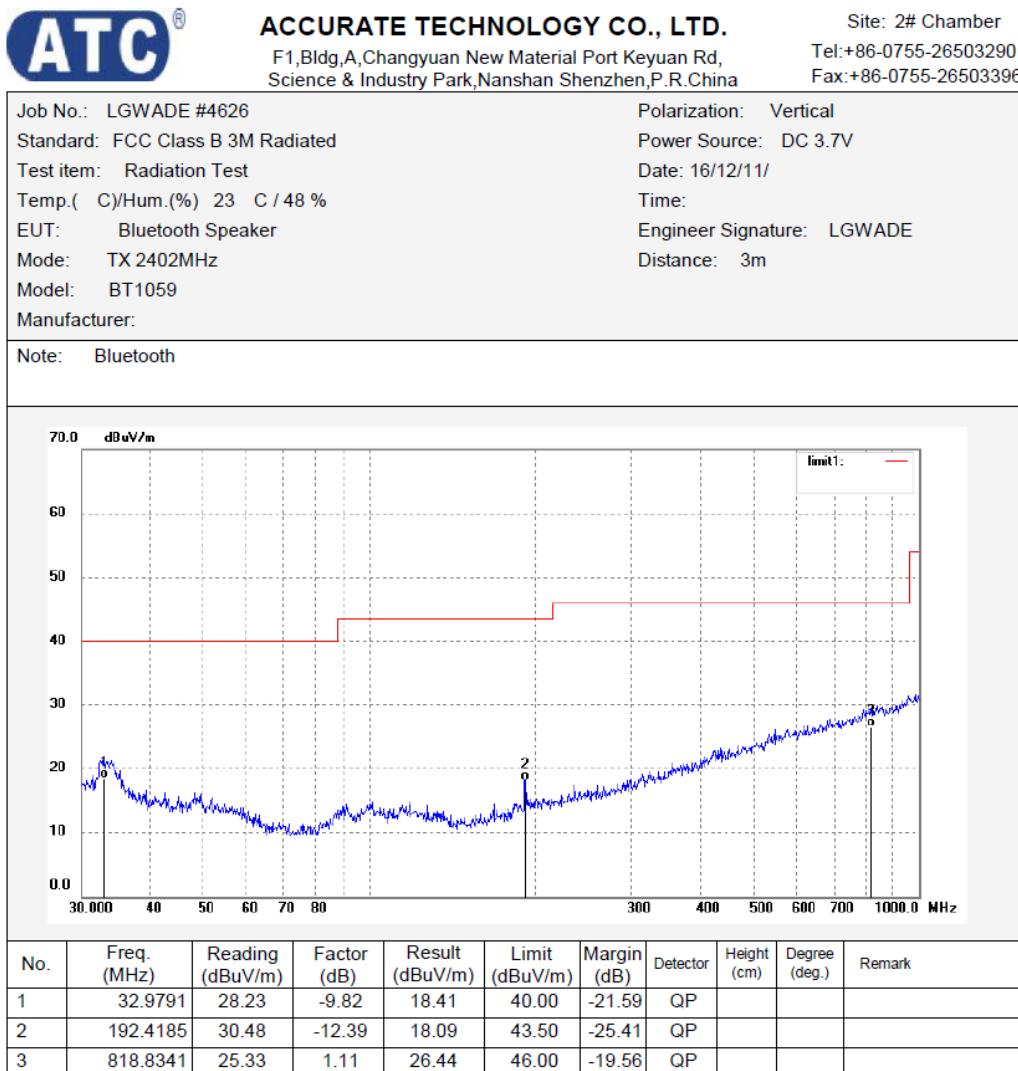


Figure 5: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz –18GHz)



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

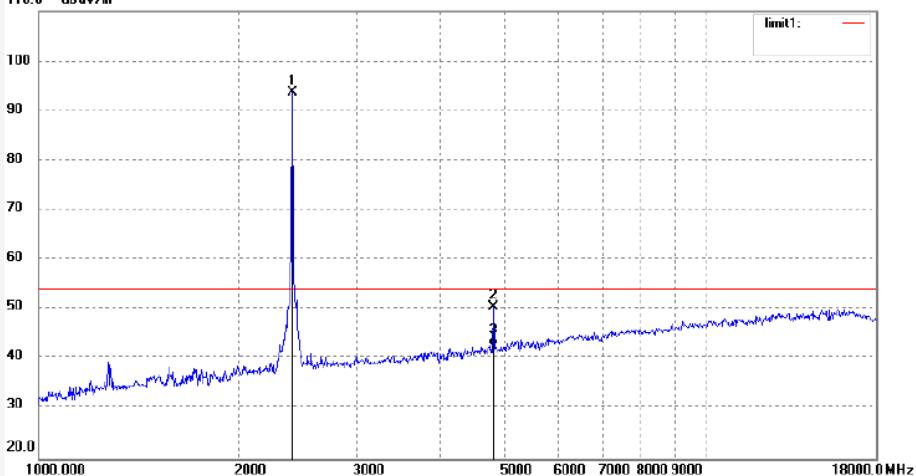
Job No.: LGWADE #4609	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V									
Test item: Radiation Test	Date: 16/12/11/									
Temp.(C)/Hum.(%) 23 C / 48 %	Time:									
EUT: Bluetooth Speaker	Engineer Signature: LGWADE									
Mode: TX 2402MHz	Distance: 3m									
Model: BT1059										
Manufacturer:										
Note: Bluetooth										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	95.40	-1.61	93.79	/	/	peak			
2	4804.028	45.50	4.90	50.40	74.00	-23.60	peak			
3	4804.028	37.64	4.90	42.54	54.00	-11.46	AVG			

Figure 6: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz)

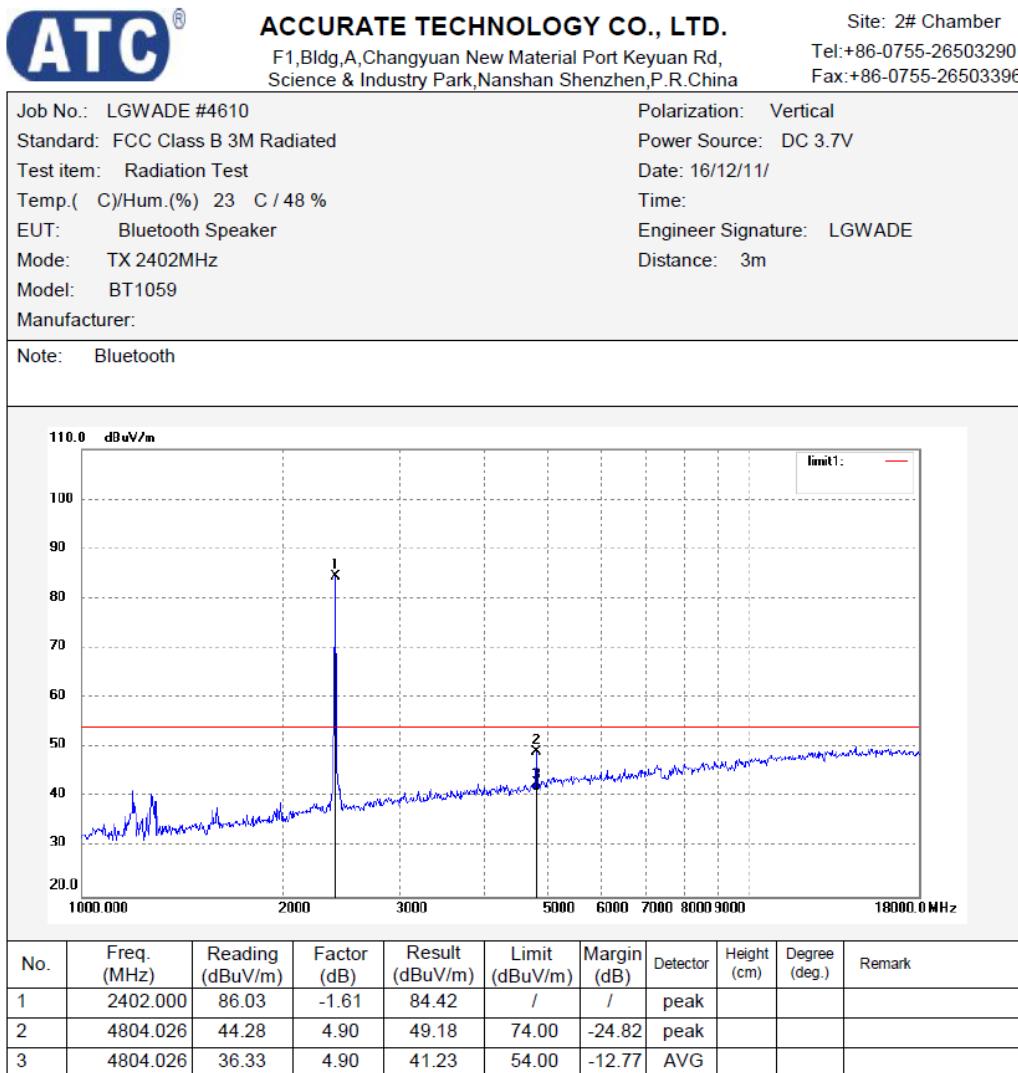


Figure 7: Test figure of spurious emissions, mode A.1, Horizontal polarity (18GHz –25GHz)

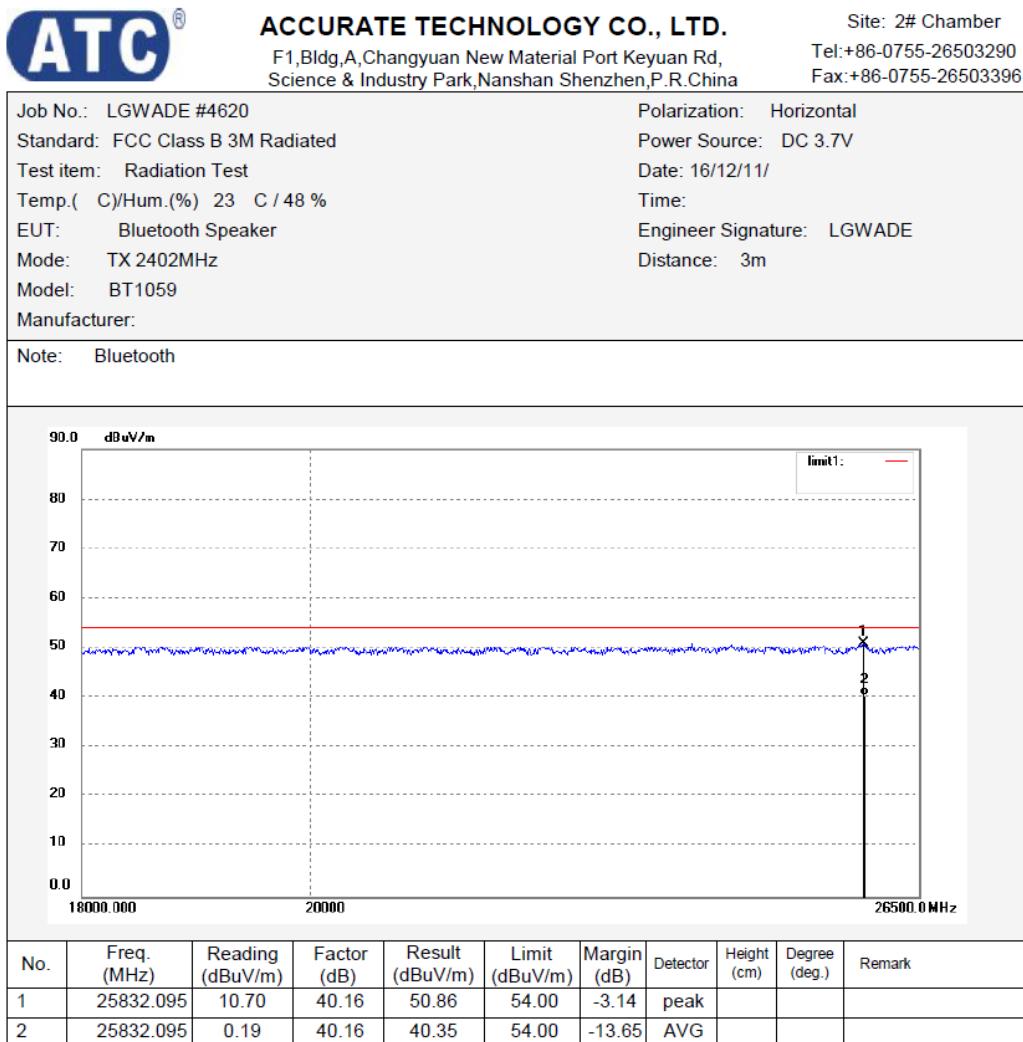


Figure 8: Test figure of spurious emissions, mode A.1, Vertical polarity (18GHz – 25GHz)

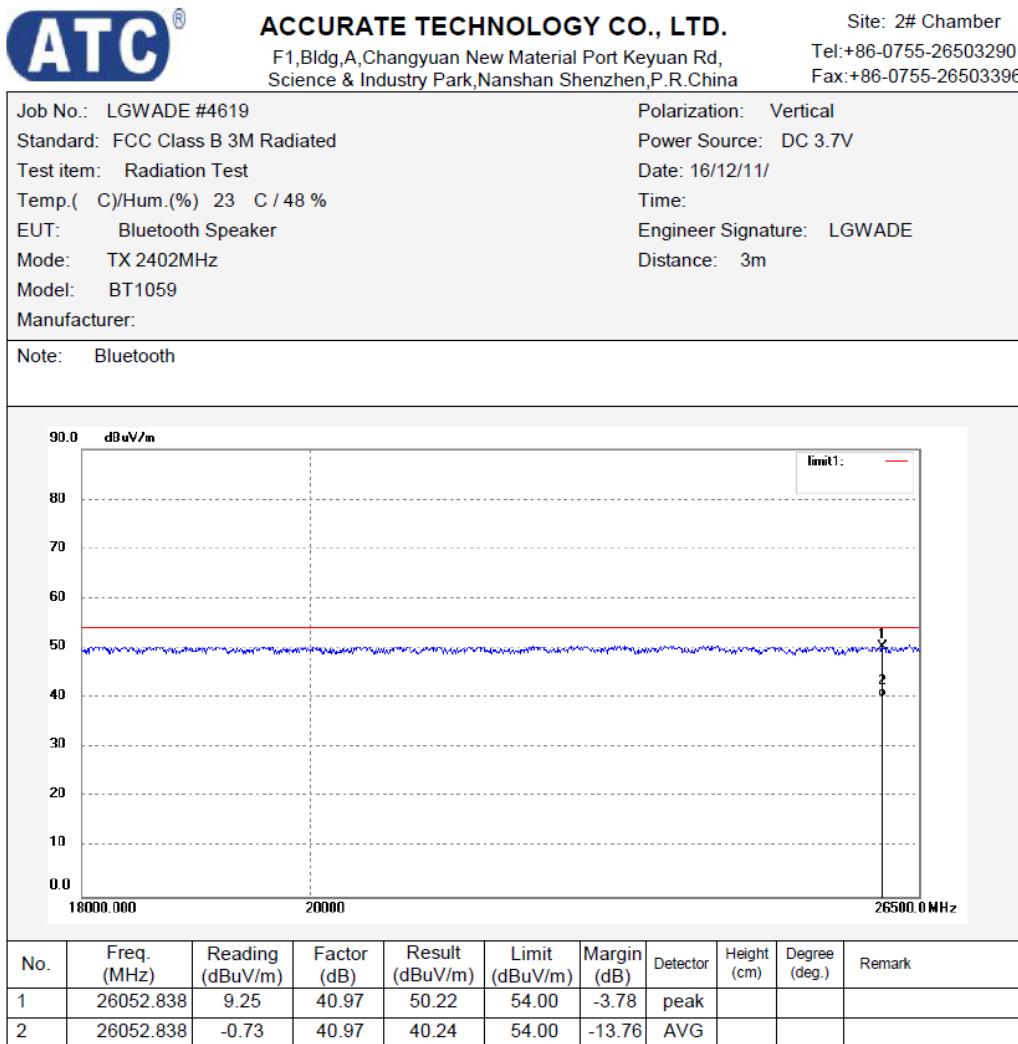


Figure 9: Test figure of spurious emissions, mode A.2, Horizontal polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: Bluetooth Speaker M/N:BT1059
 Manufacturer:
 Operating Condition: TX 2441MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3.7V
 Comment: X

SCAN TABLE: "LFRE Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer Bandw.
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

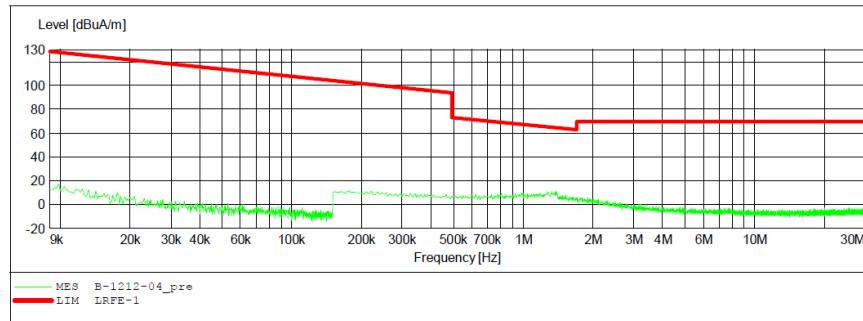


Figure 10: Test figure of spurious emissions, mode A.2, Vertical polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: Bluetooth Speaker M/N:BT1059
 Manufacturer:
 Operating Condition: TX 2441MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3.7V
 Comment: Y

SCAN TABLE: "LFRE Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer Bandw.
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

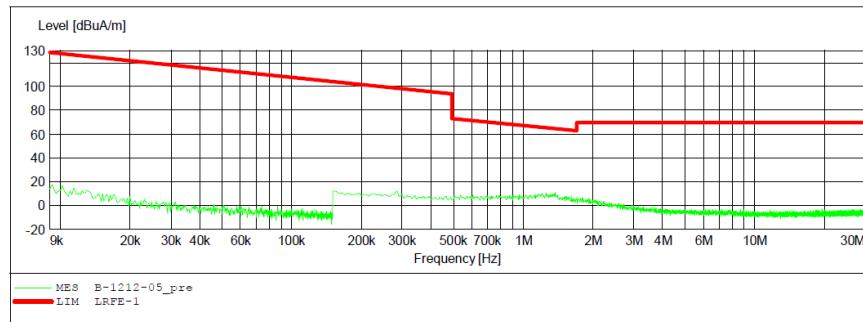


Figure 11: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 1GHz)

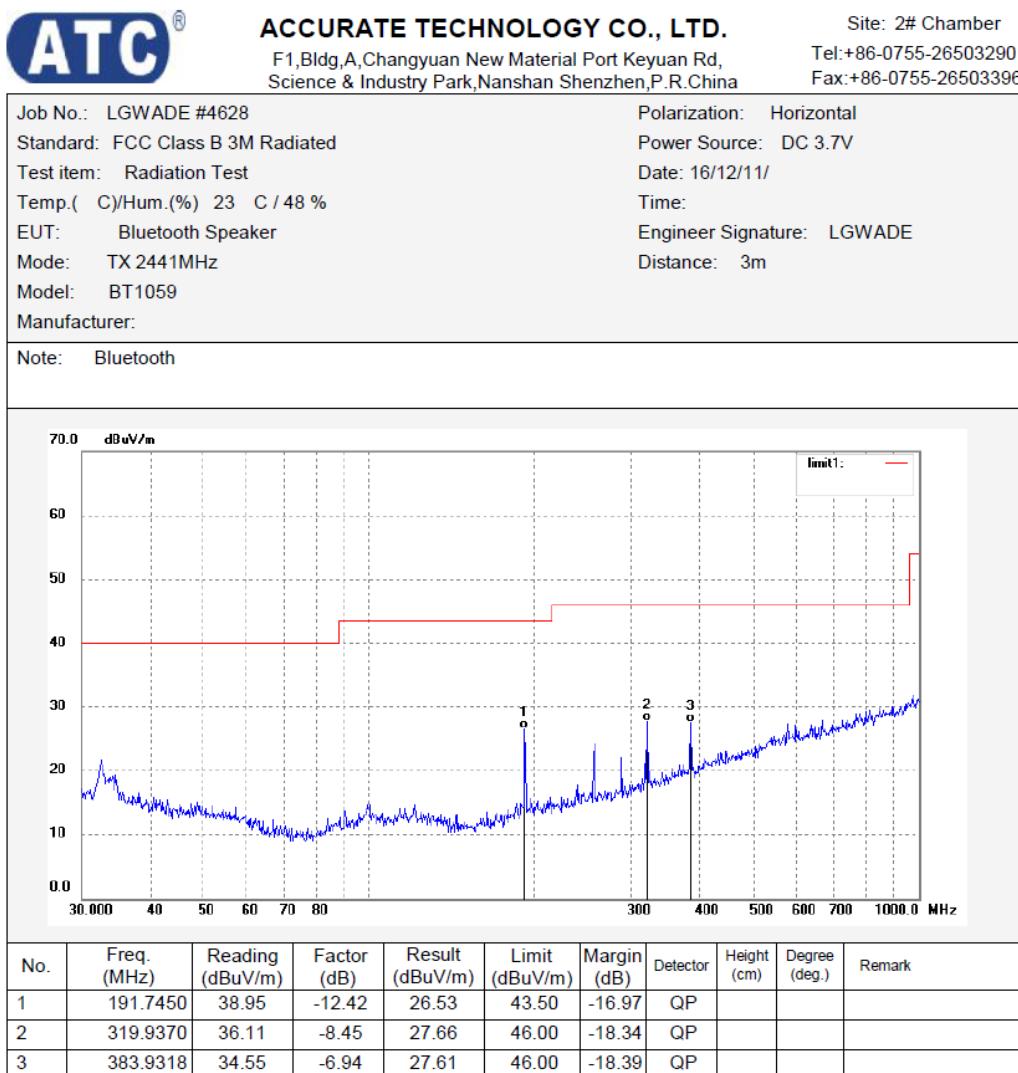


Figure 12: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 1GHz)

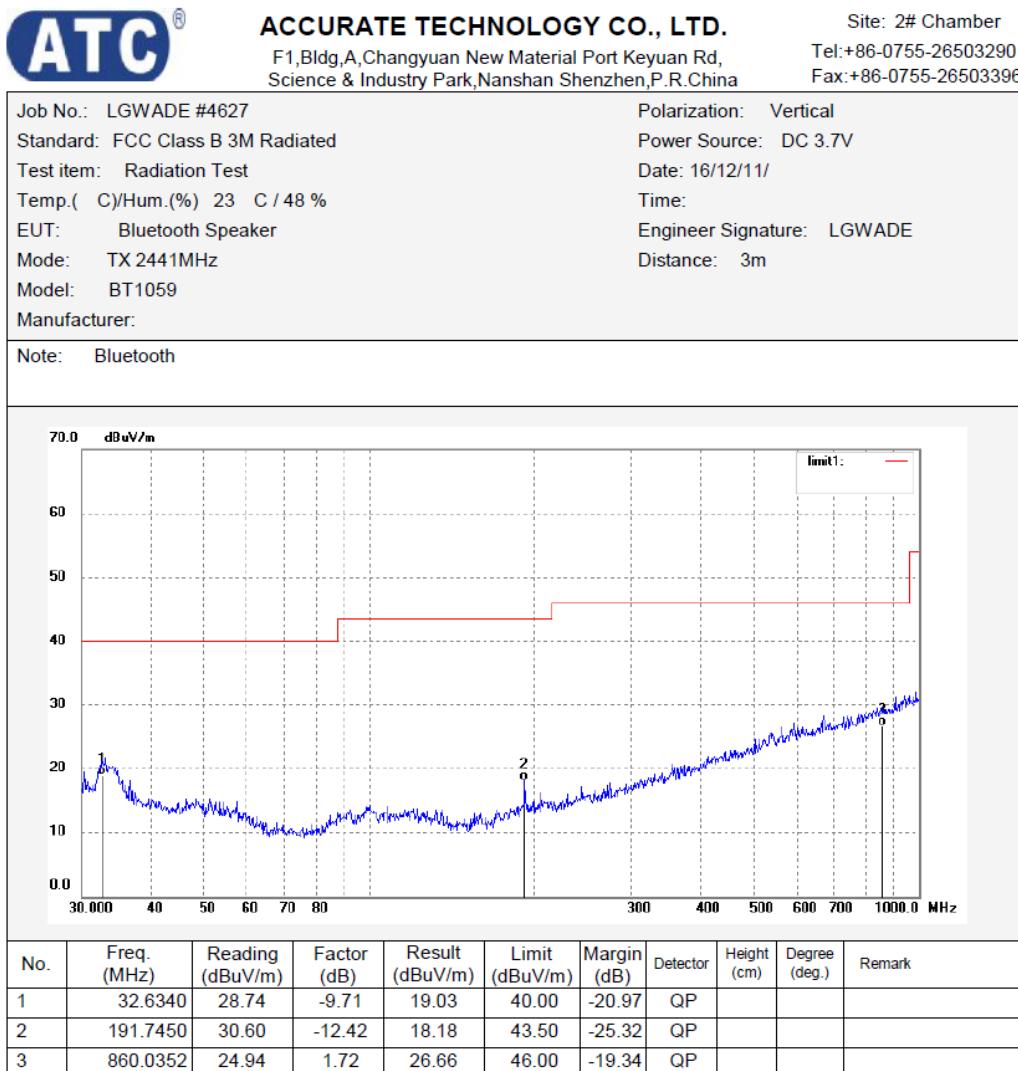


Figure 13: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz)

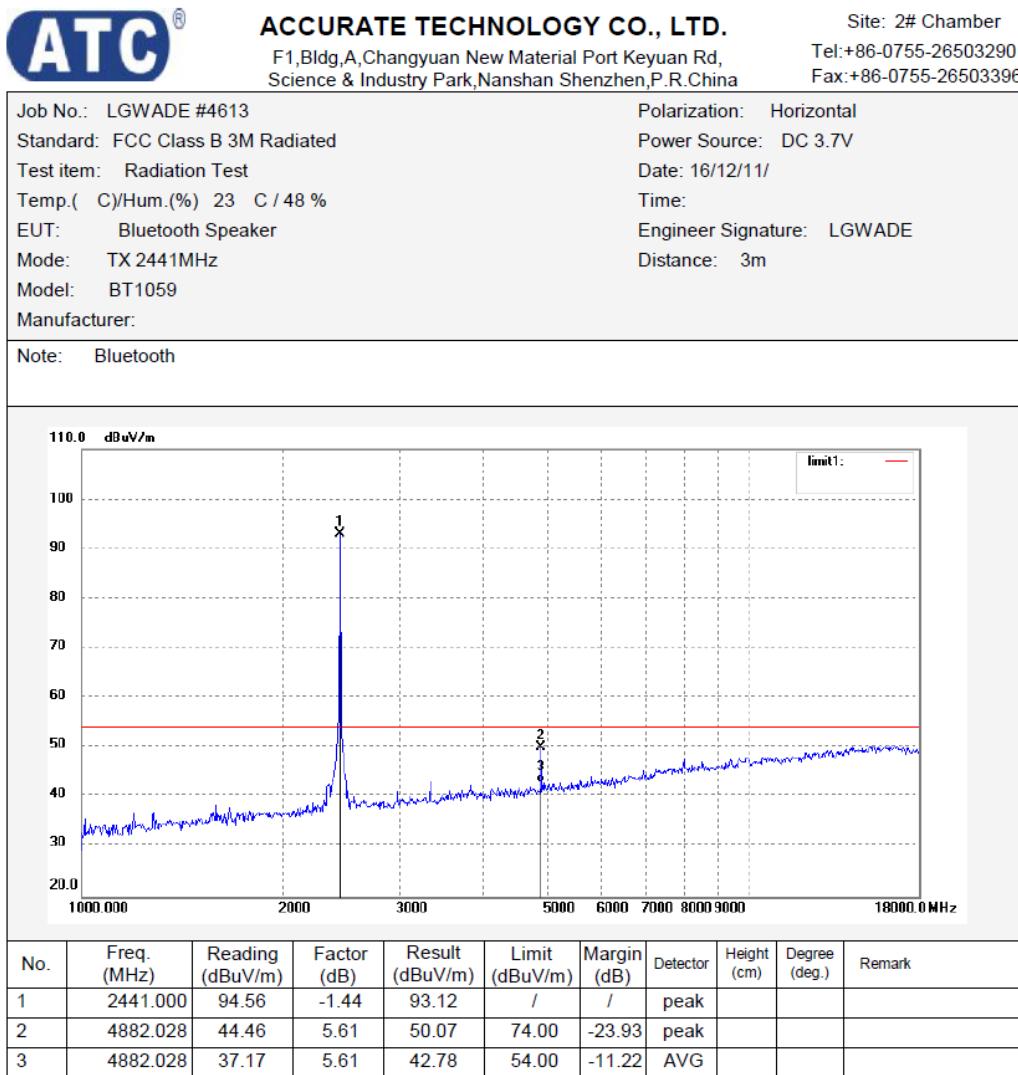


Figure 14: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz)

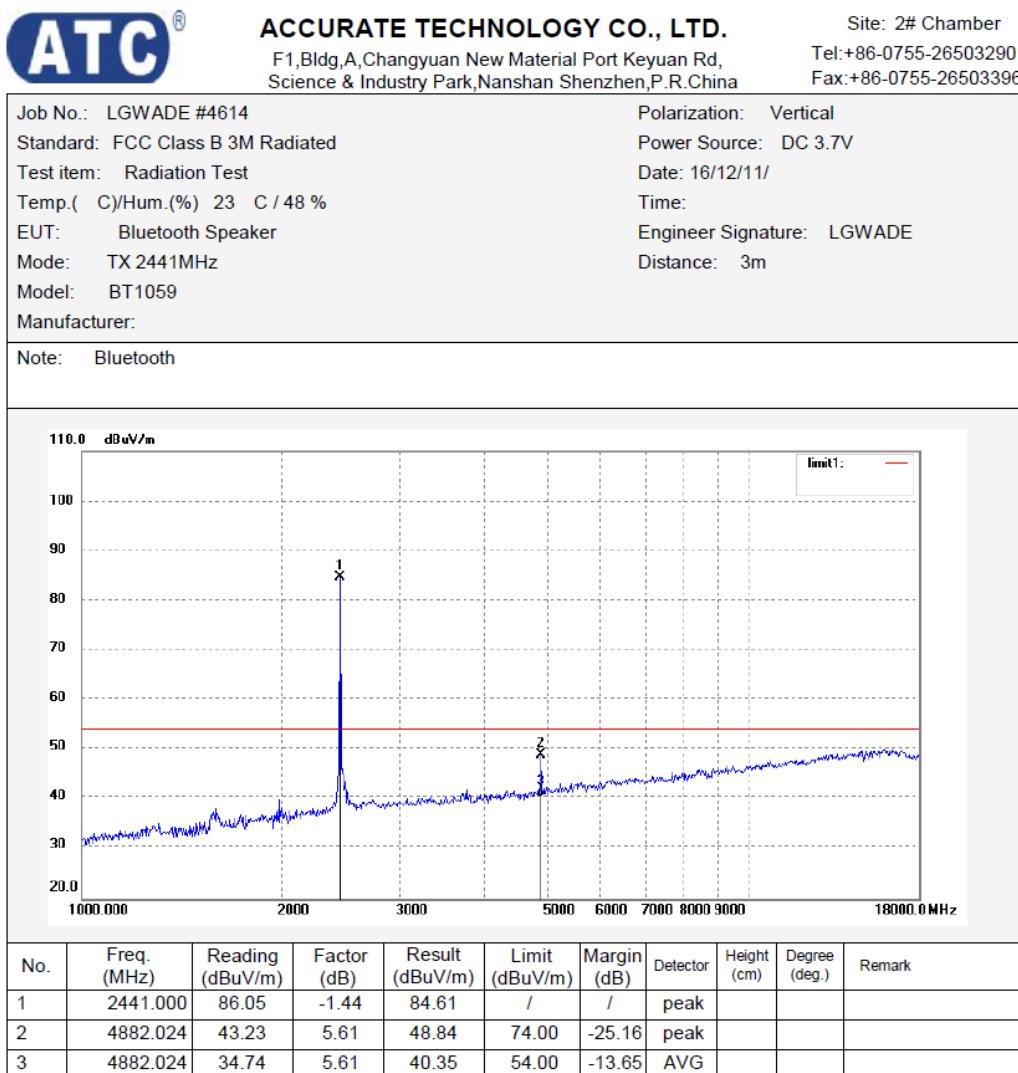


Figure 15: Test figure of spurious emissions, mode A.2, Horizontal polarity (18GHz – 25GHz)

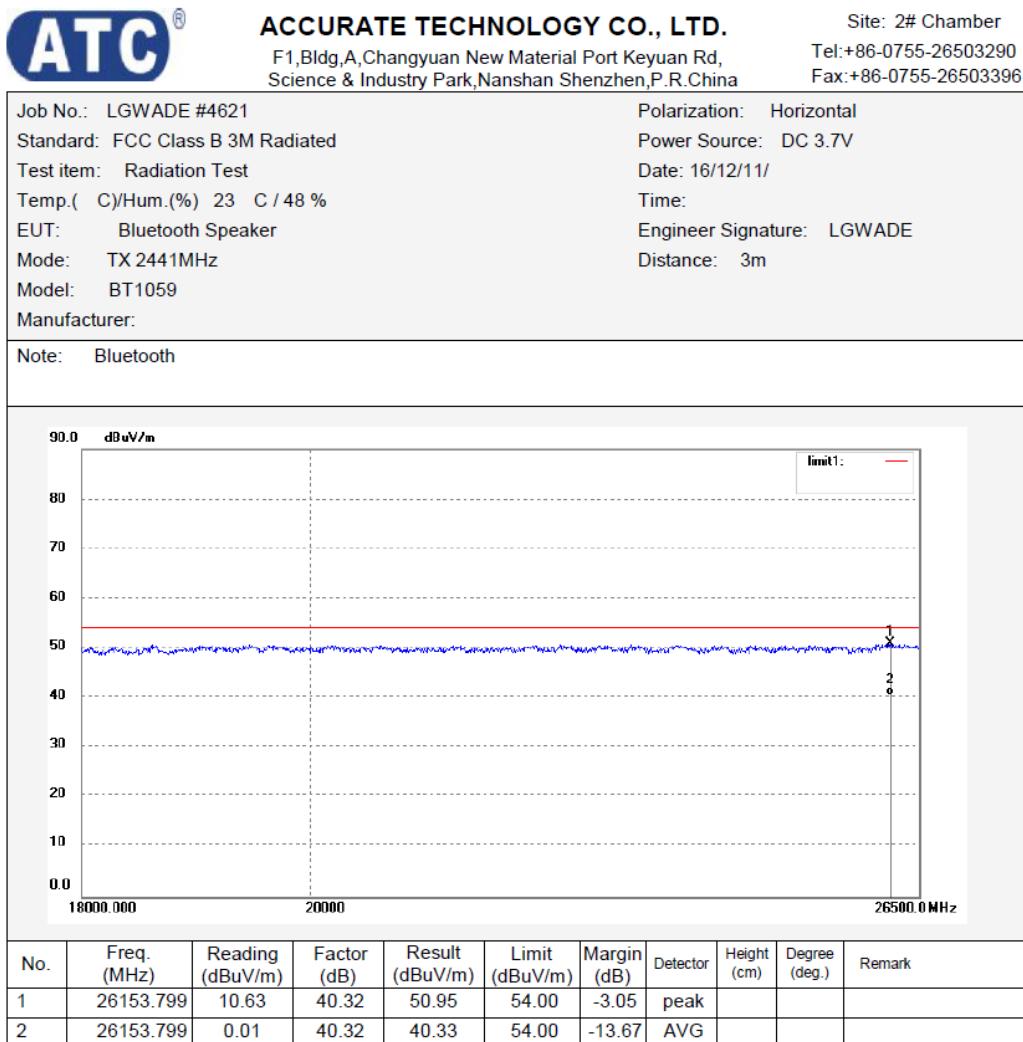


Figure 16: Test figure of spurious emissions, mode A.2, Vertical polarity (18GHz – 25GHz)

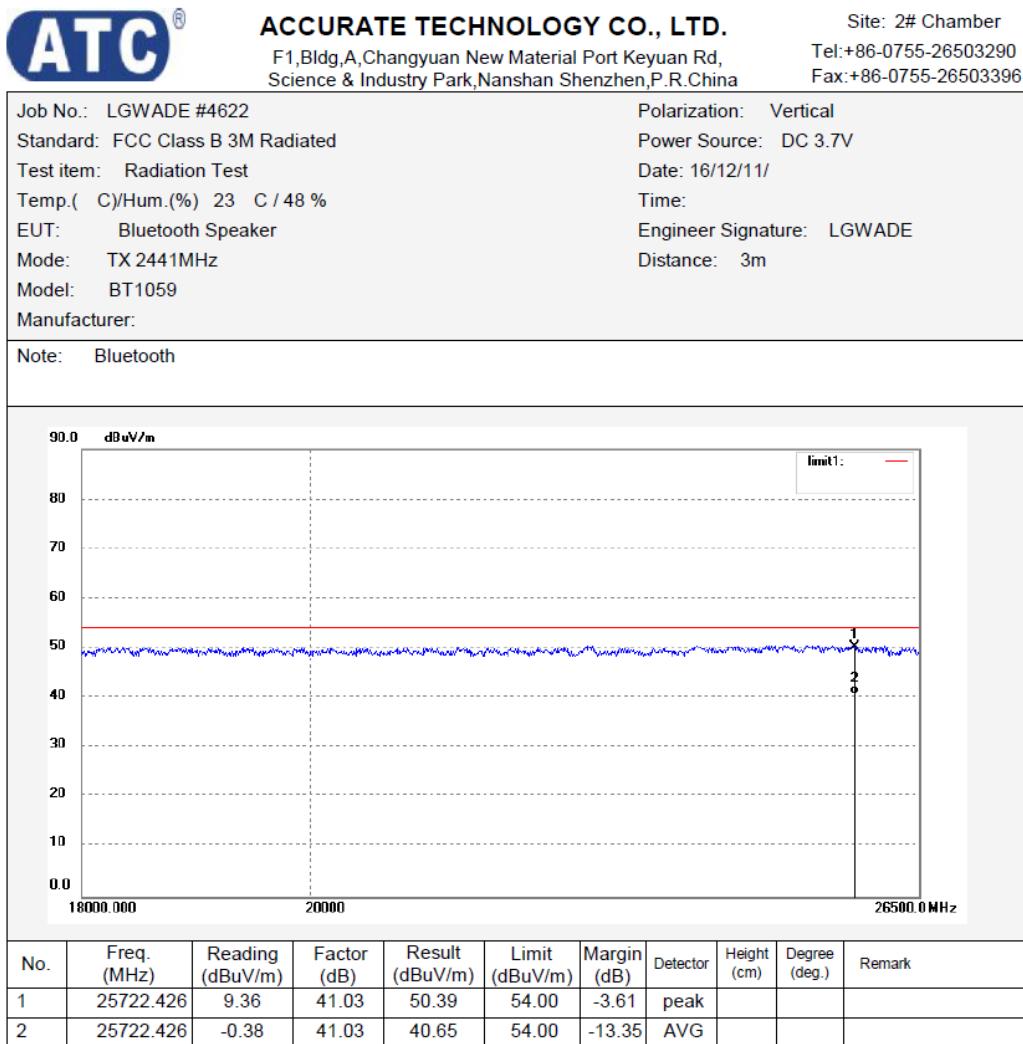


Figure 17: Test figure of spurious emissions, mode A.3, Horizontal polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: Bluetooth Speaker M/N:BT1059
 Manufacturer:
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3.7V
 Comment: X

SCAN TABLE: "LFRE Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer Bandw.
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

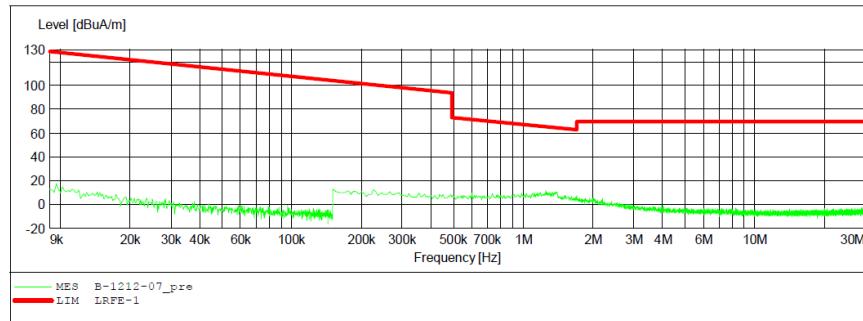


Figure 18: Test figure of spurious emissions, mode A.3, Vertical polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: Bluetooth Speaker M/N:BT1059
 Manufacturer:
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3.7V
 Comment: Y

SCAN TABLE: "LFRE Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer Bandw.
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

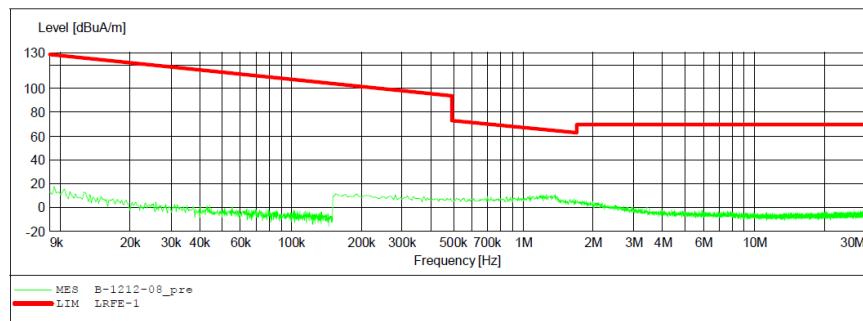


Figure 19: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 1GHz)

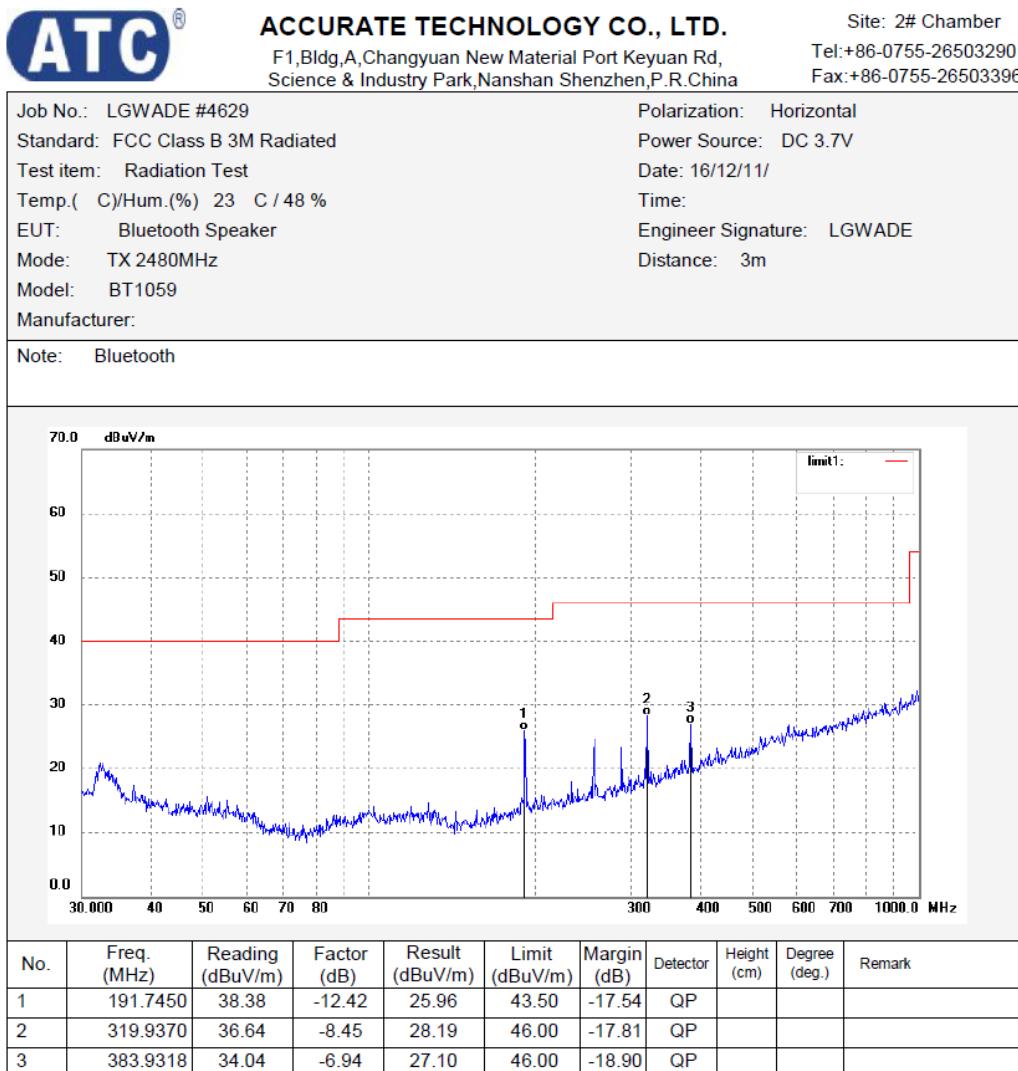


Figure 20: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 1GHz)

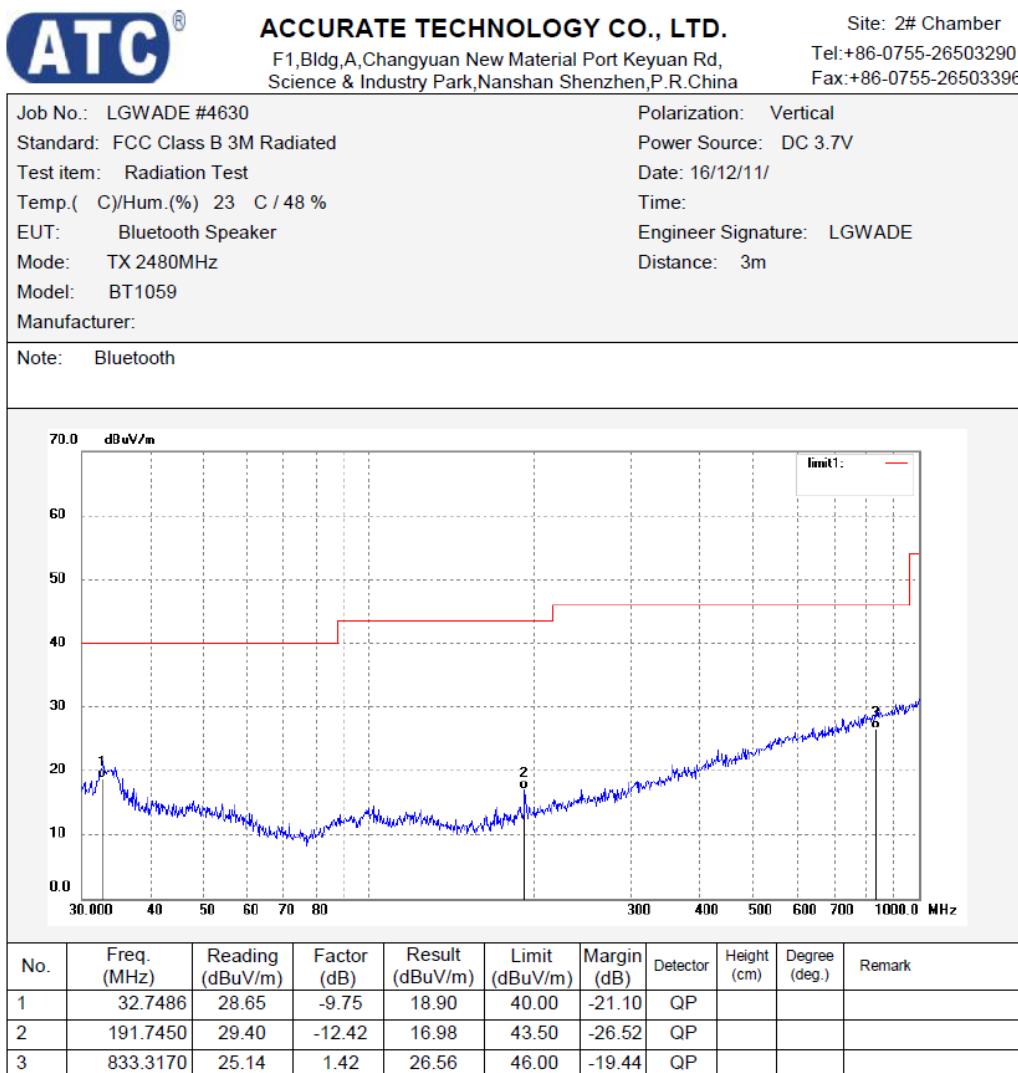


Figure 21: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz –18GHz)

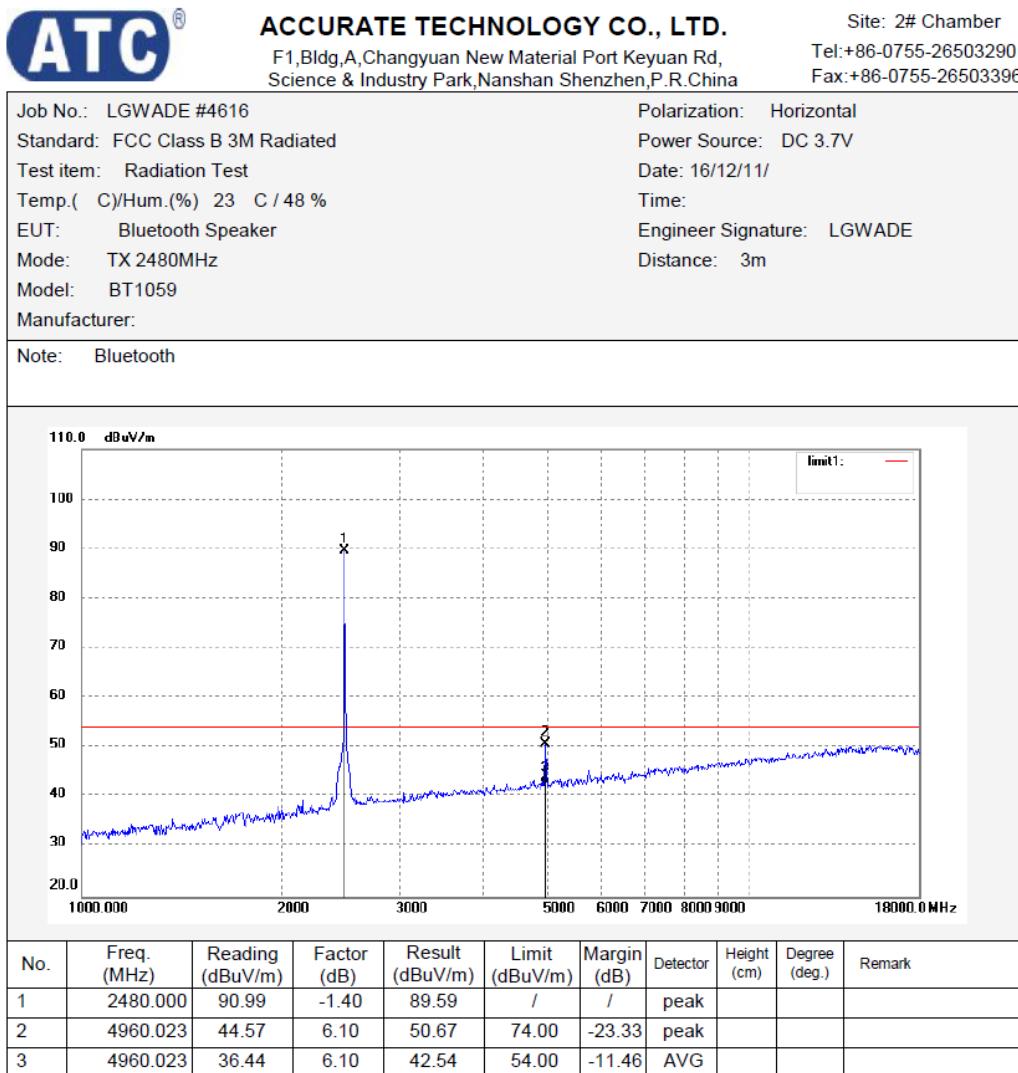


Figure 22: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz)



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

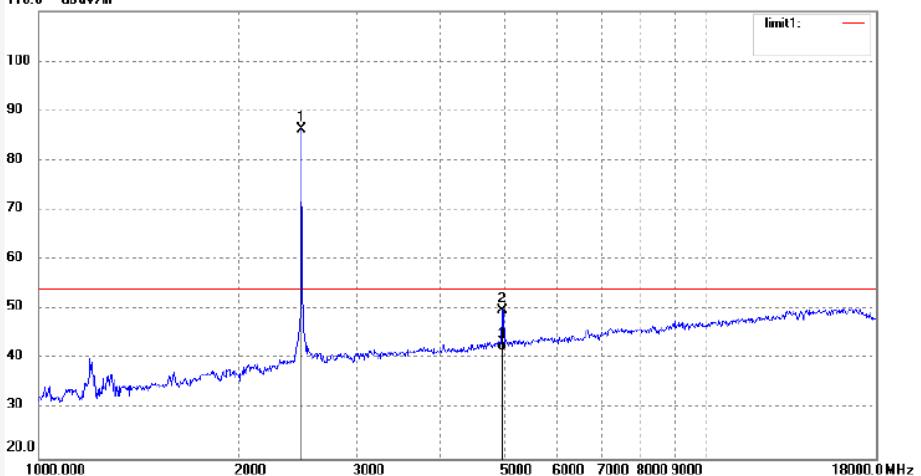
Job No.: LGWADE #4615	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V									
Test item: Radiation Test	Date: 16/12/11/									
Temp.(C)/Hum.(%) 23 C / 48 %	Time:									
EUT: Bluetooth Speaker	Engineer Signature: LGWADE									
Mode: TX 2480MHz	Distance: 3m									
Model: BT1059										
Manufacturer:										
Note: Bluetooth										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	87.68	-1.40	86.28	/	/	peak			
2	4960.028	43.70	6.10	49.80	74.00	-24.20	peak			
3	4960.028	35.68	6.10	41.78	54.00	-12.22	AVG			

Figure 23: Test figure of spurious emissions, mode A.3, Horizontal polarity (18GHz –25GHz)

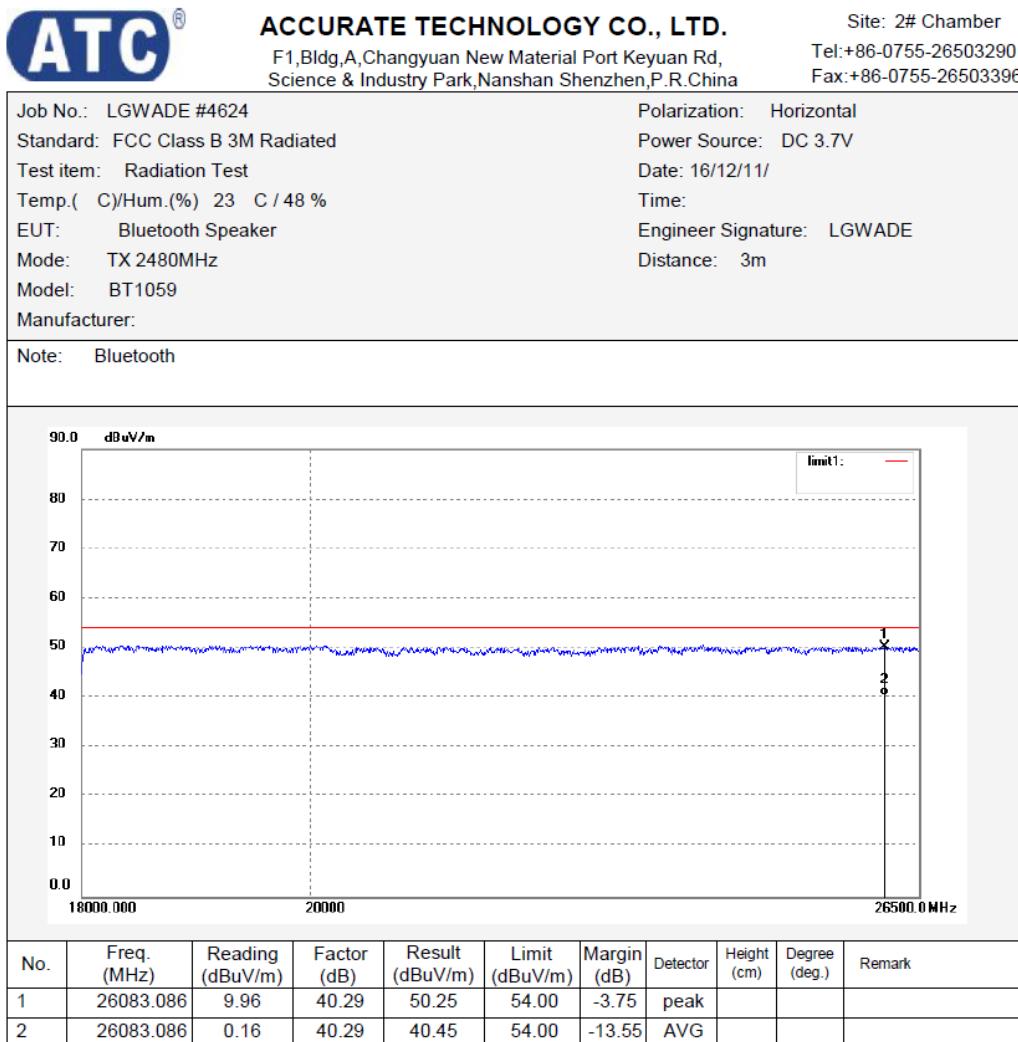


Figure 24: Test figure of spurious emissions, mode A.3, Vertical polarity (18GHz – 25GHz)

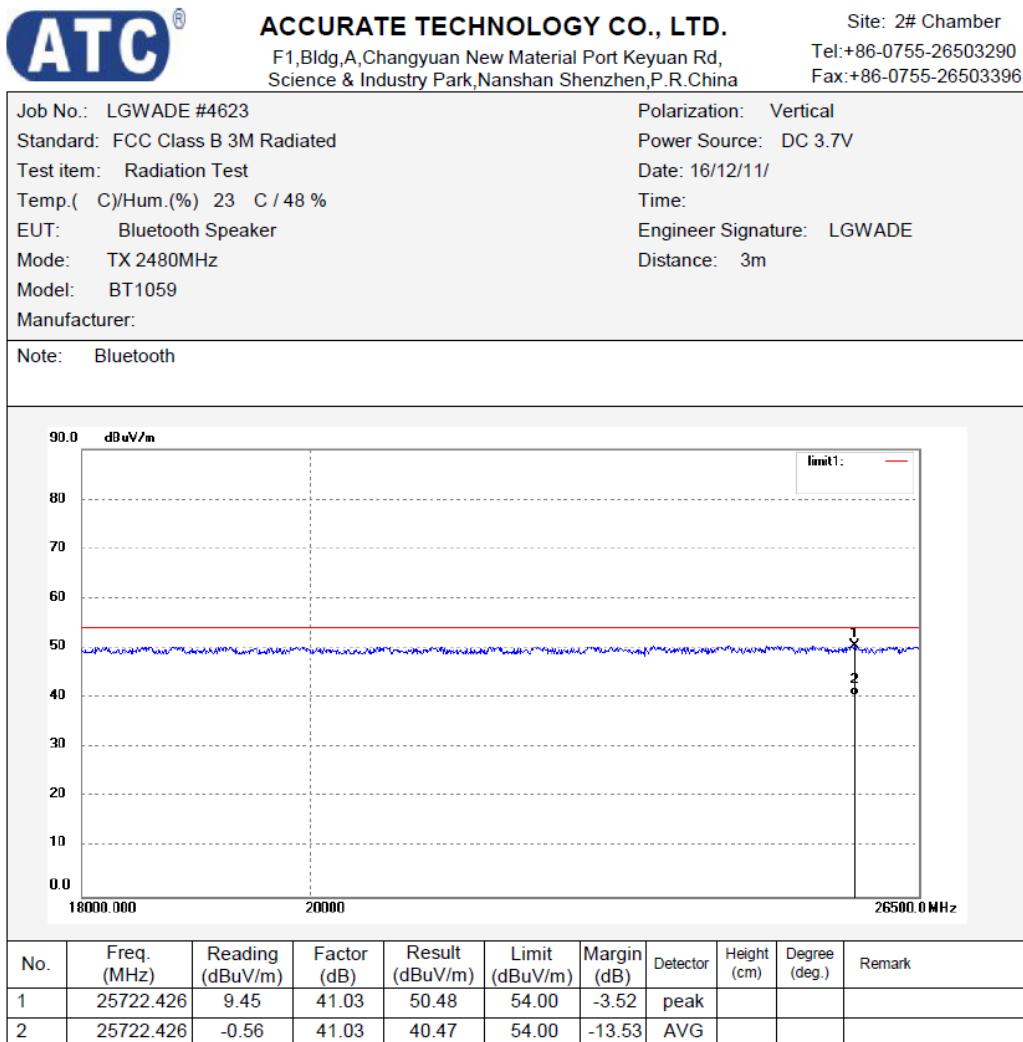


Figure 25: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal

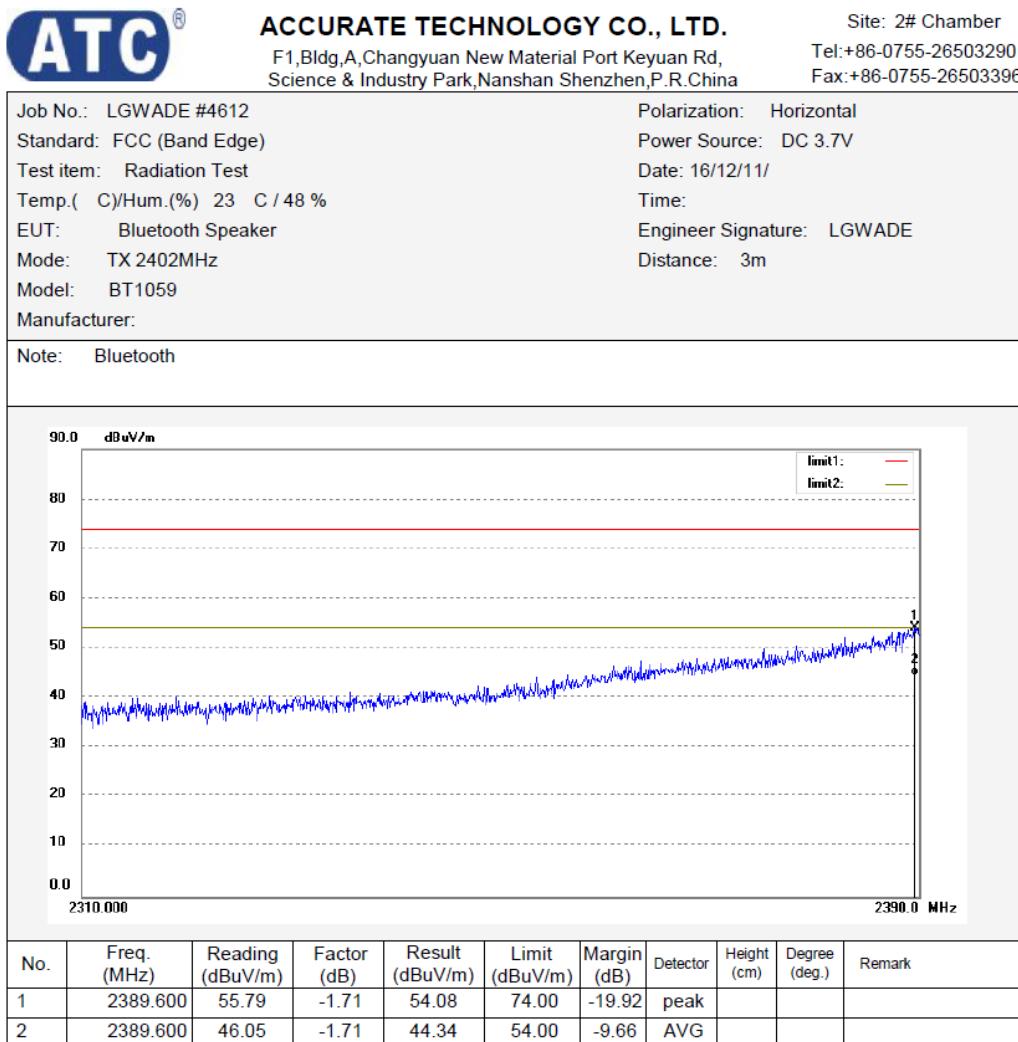


Figure 26: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical

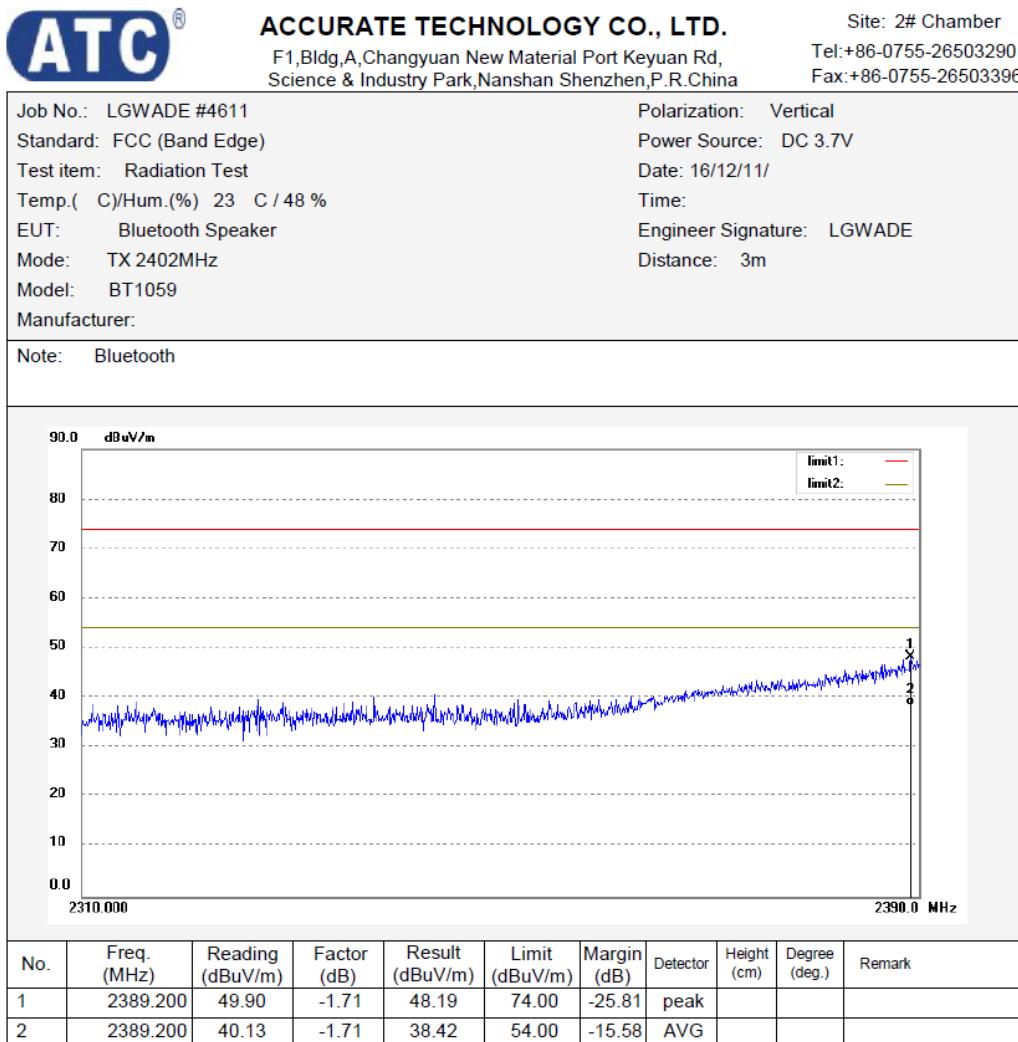


Figure 27: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal

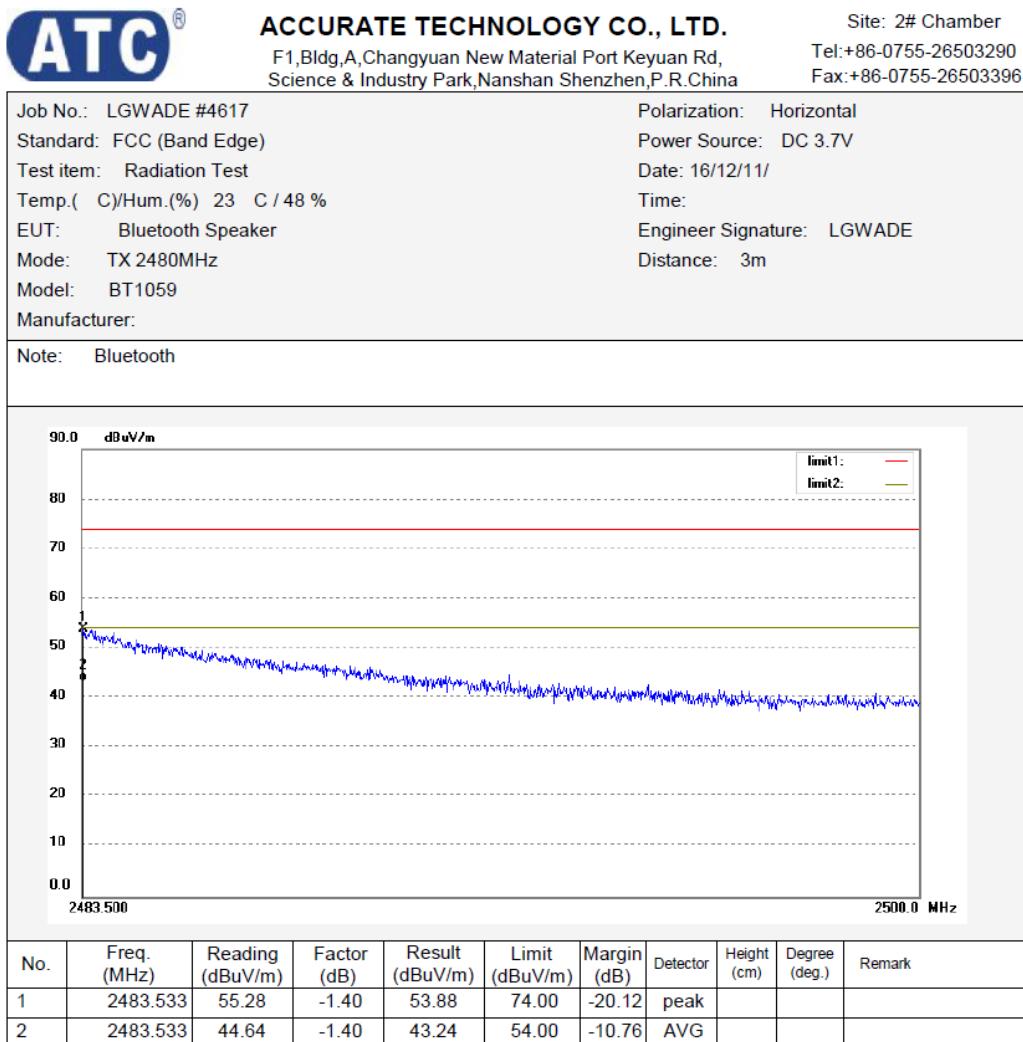


Figure 28: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical

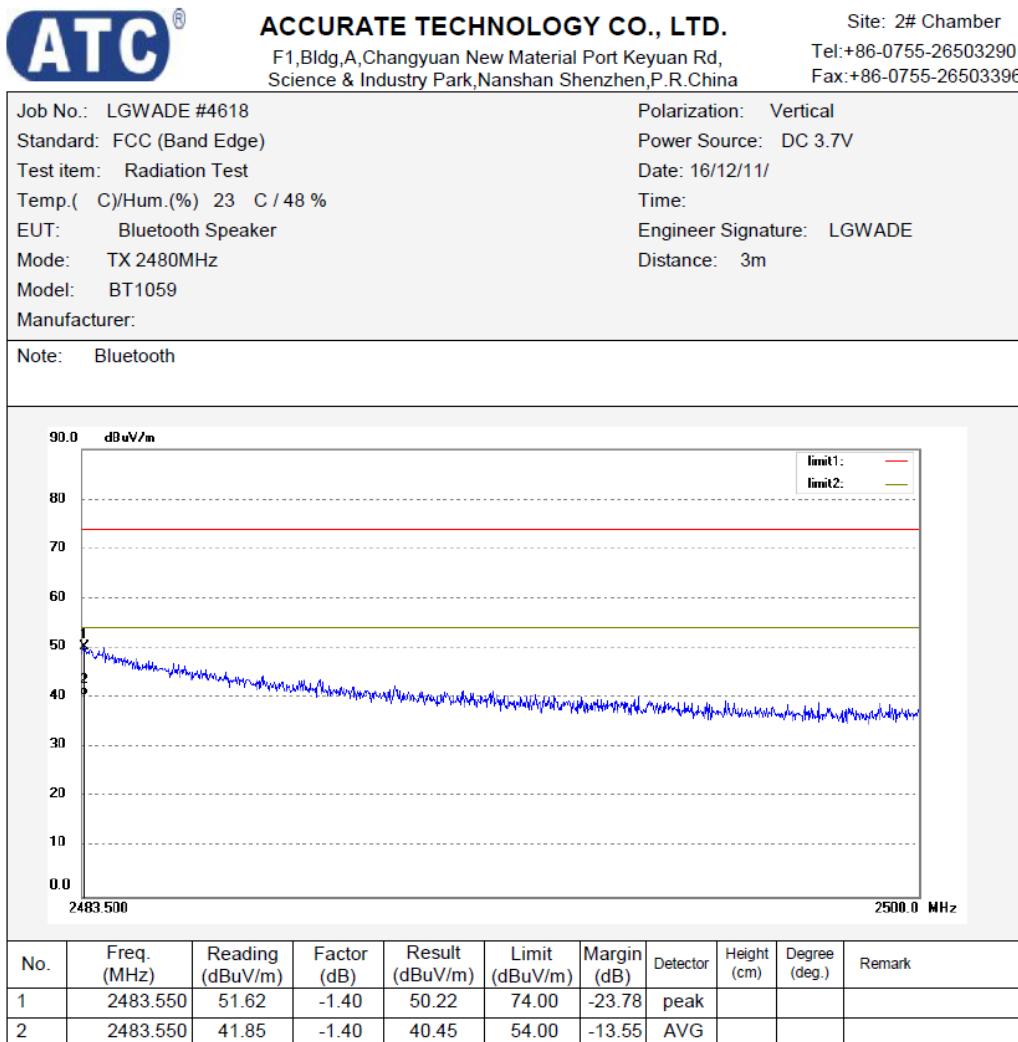
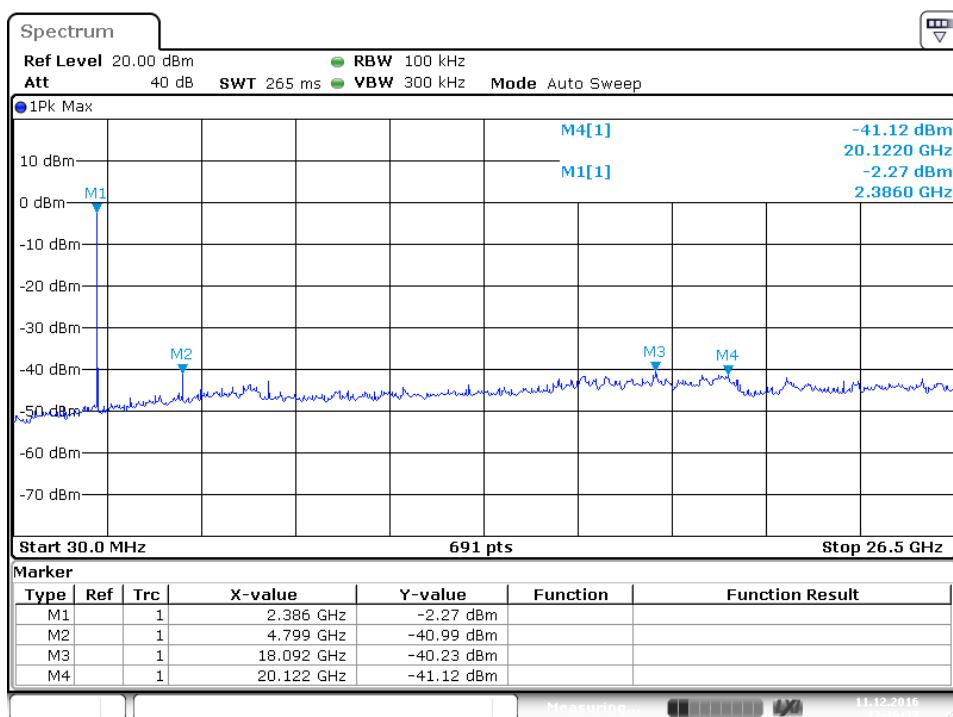
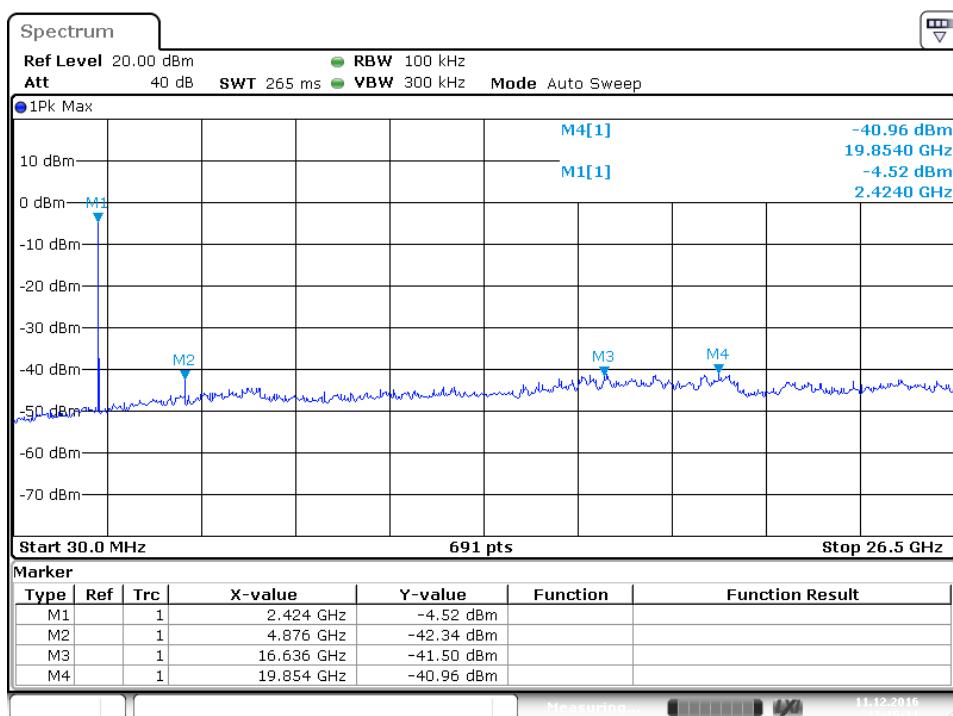


Figure 29: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.1



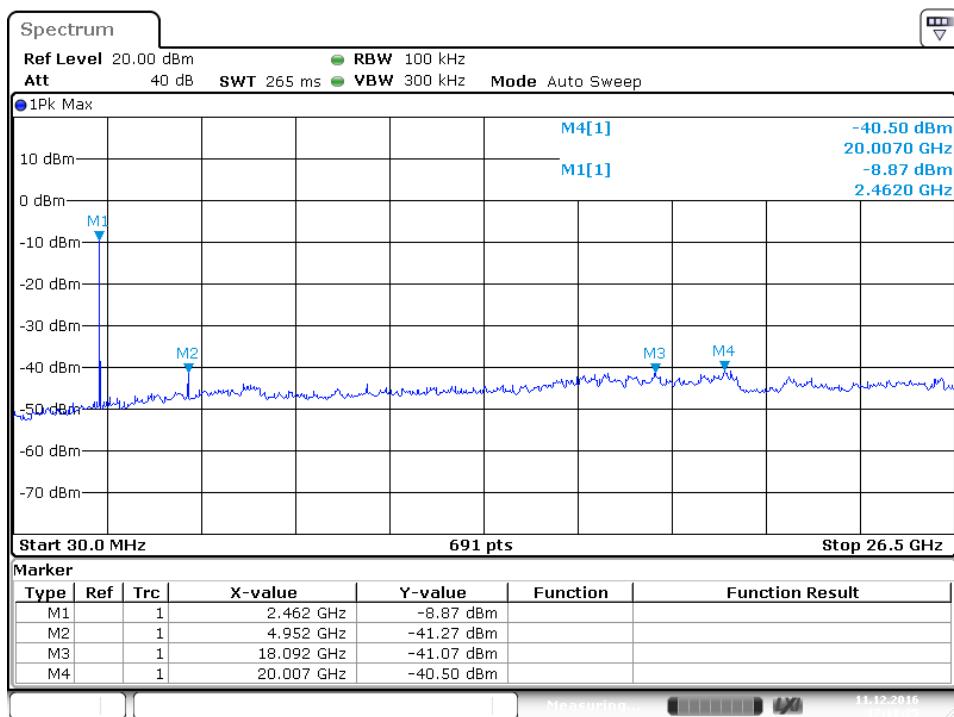
Date: 11.DEC.2016 17:16:38

Figure 30: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.2



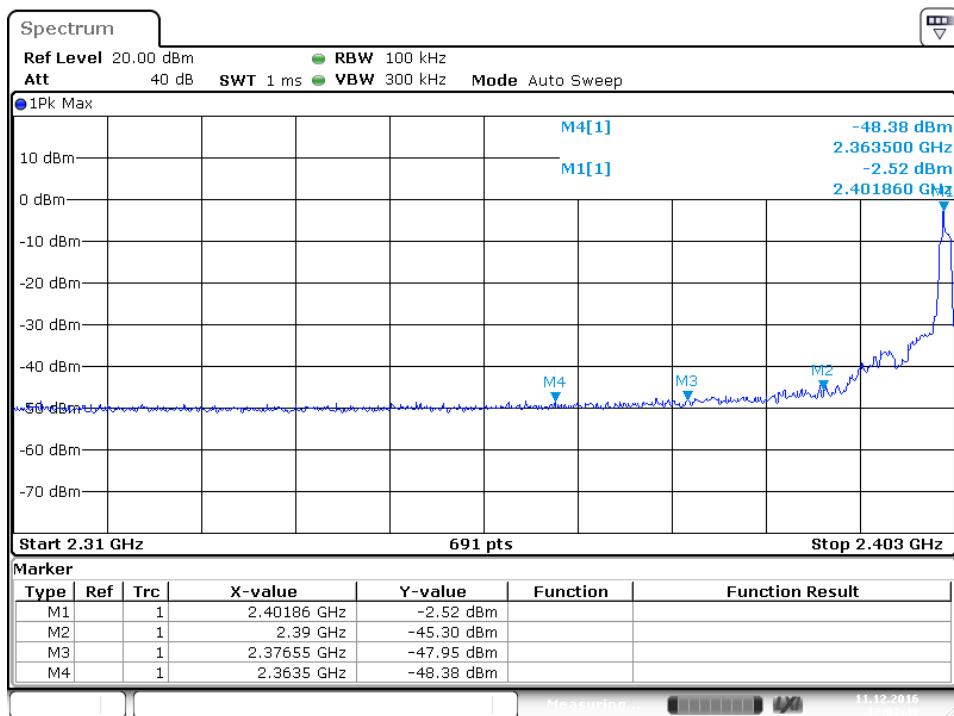
Date: 11.DEC.2016 17:15:11

Figure 31: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.3



Date: 11.DEC.2016 17:18:26

Figure 32: Test figure of Frequency Band Edge in 100kHz Bandwidth, Mode A.1



Date: 11.DEC.2016 17:03:48

Figure 33: Test figure of Frequency Band Edge in 100kHz Bandwidth, Mode A.3

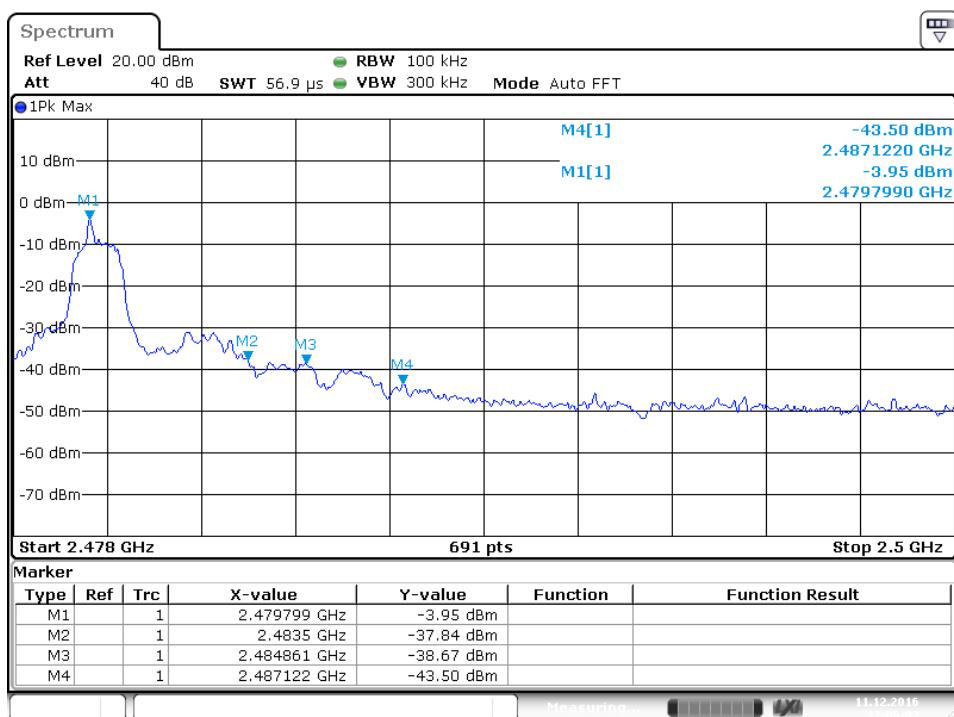
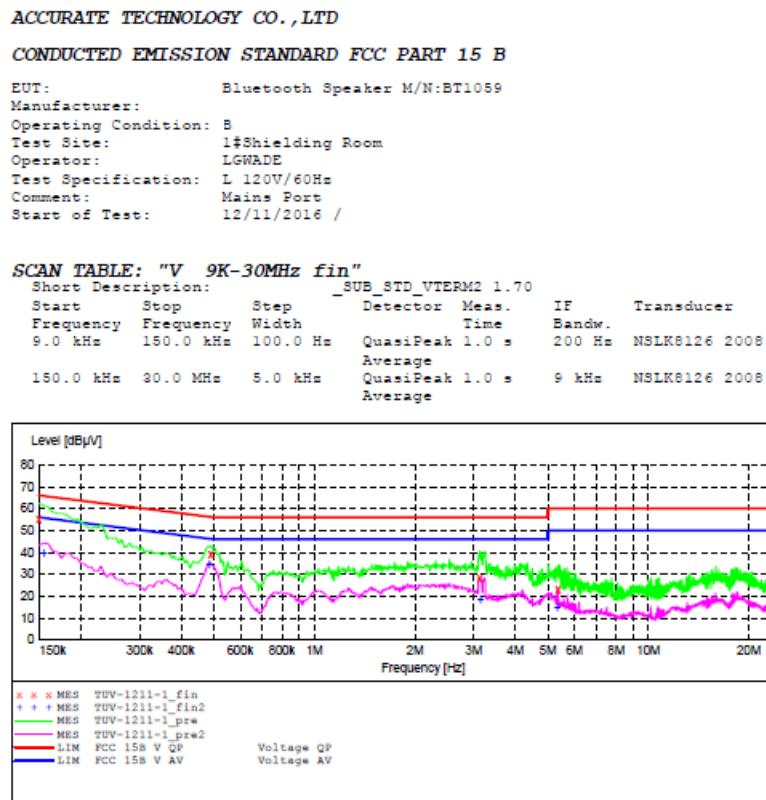


Figure 34: Test figure of Conducted emissions, Mode B, line live



MEASUREMENT RESULT: "TUV-1211-1_fin"

12/11/2016	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBpV	dB	dBpV	dB			
	0.150000	55.40	10.5	66	10.6	QP	L1	GND
	0.490000	39.20	10.7	56	17.0	QP	L1	GND
	3.130000	27.80	11.1	56	28.2	QP	L1	GND
	5.380000	22.60	11.2	60	37.4	QP	L1	GND

MEASUREMENT RESULT: "TUV-1211-1_fin2"

12/11/2016	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBpV	dB	dBpV	dB			
	0.155000	39.90	10.5	56	15.8	AV	L1	GND
	0.485000	34.90	10.7	46	11.4	AV	L1	GND
	3.140000	18.80	11.1	46	27.2	AV	L1	GND
	5.340000	15.20	11.2	50	34.8	AV	L1	GND

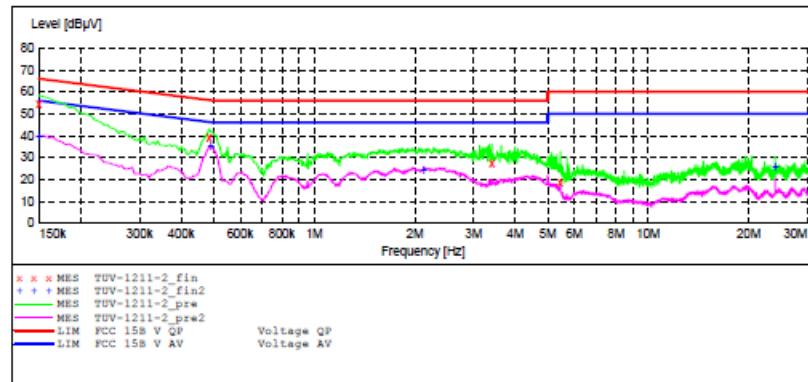
Figure 35: Test figure of Conducted emissions, Mode B, line neutral

ACCURATE TECHNOLOGY CO., LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Bluetooth Speaker M/N:BT1059
 Manufacturer:
 Operating Condition: B
 Test Site: 1#Shielding Room
 Operator: LGNADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 12/11/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF	Transducer
9.0 kHz	180.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK8126 2008
Average						Average
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
Average						Average



MEASUREMENT RESULT: "TUV-1211-2_fin"

12/11/2016	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBpV	dB	dBpV	dB			
	0.150000	54.20	10.5	66	11.8	QP	N	GND
	0.485000	38.80	10.7	56	17.5	QP	N	GND
	2.400000	27.10	11.1	56	26.9	QP	N	GND
	5.460000	18.90	11.2	60	41.1	QP	N	GND

MEASUREMENT RESULT: "TUV-1211-2_fin2"

12/11/2016	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBpV	dB	dBpV	dB			
	0.150000	39.90	10.5	56	16.1	AV	N	GND
	0.490000	35.40	10.7	46	10.8	AV	N	GND
	2.130000	24.40	11.0	46	21.6	AV	N	GND
	23.995000	26.10	11.5	50	23.9	AV	N	GND

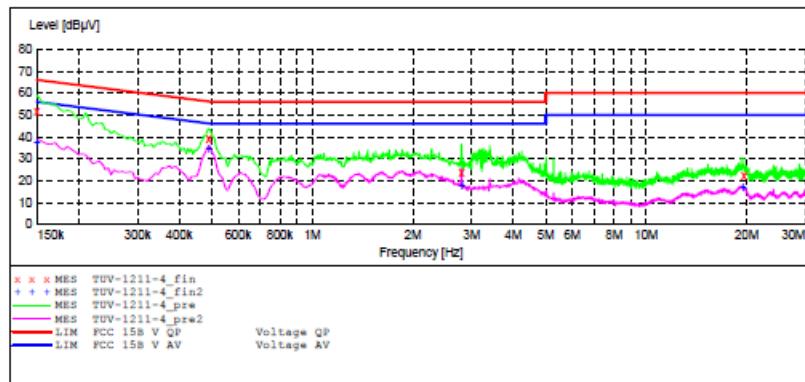
Figure 36: Test figure of Conducted emissions, Mode C+D, line live

ACCURATE TECHNOLOGY CO., LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Bluetooth Speaker M/N:BT1059
 Manufacturer:
 Operating Condition: C+D
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 12/11/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK8126 2008
		Average				
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
		Average				



MEASUREMENT RESULT: "TUV-1211-4_fin"

12/11/2016	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.150000	51.80	10.5	66	14.2	QP	L1	GND
	0.490000	38.70	10.7	56	17.5	QP	L1	GND
	2.800000	23.90	11.0	56	32.1	QP	L1	GND
	19.615000	22.30	11.4	60	37.7	QP	L1	GND

MEASUREMENT RESULT: "TUV-1211-4_fin2"

12/11/2016	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.150000	37.80	10.5	56	18.2	AV	L1	GND
	0.490000	34.80	10.7	46	11.4	AV	L1	GND
	2.800000	17.70	11.0	46	26.3	AV	L1	GND
	19.435000	16.90	11.4	50	33.1	AV	L1	GND

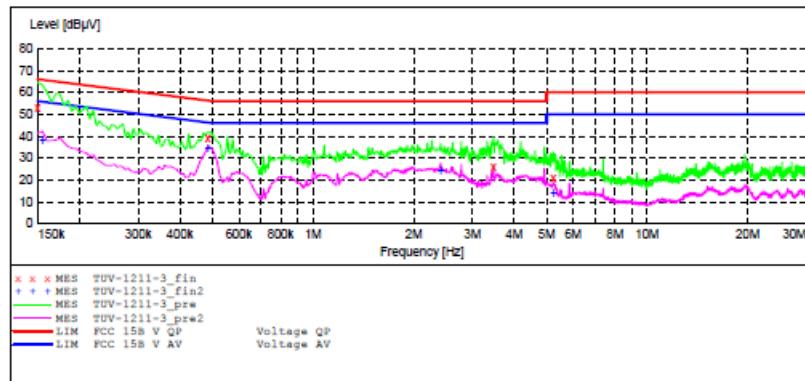
Figure 37: Test figure of Conducted emissions, Mode C+D, line neutral

ACCURATE TECHNOLOGY CO., LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Bluetooth Speaker M/N:BT1059
 Manufacturer:
 Operating Condition: C+D
 Test Site: 1#Shielding Room
 Operator: LGNADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 12/11/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK8126 2008
Average						Average
150.0 kHz	300.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
Average						Average



MEASUREMENT RESULT: "TUV-1211-3_fin"

12/11/2016	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.150000	53.30	10.5	56	12.7	QP	N	GND
	0.485000	38.70	10.7	56	17.6	QP	N	GND
	3.470000	26.20	11.1	56	29.8	QP	N	GND
	5.240000	21.00	11.2	60	39.0	QP	N	GND

MEASUREMENT RESULT: "TUV-1211-3_fin2"

12/11/2016	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.155000	38.40	10.5	56	17.3	AV	N	GND
	0.485000	34.80	10.7	46	11.5	AV	N	GND
	2.410000	24.20	11.0	46	21.8	AV	N	GND
	5.240000	14.20	11.2	50	35.8	AV	N	GND

Figure 38: Test figure of Radiated emissions, Mode C+D, Below 1GHz, Horizontal

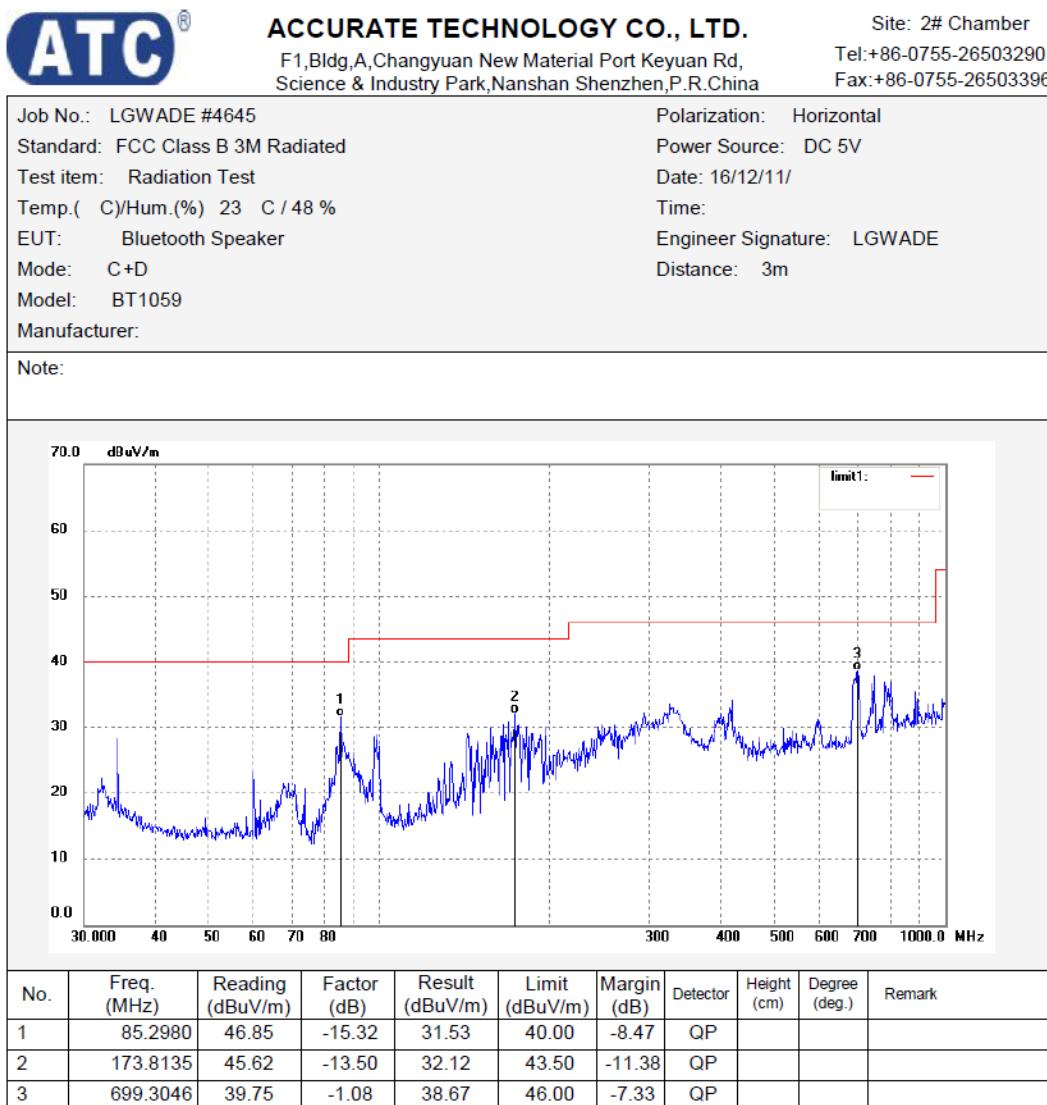


Figure 39: Test figure of Radiated emissions, Mode C+D, Below 1GHz, Vertical

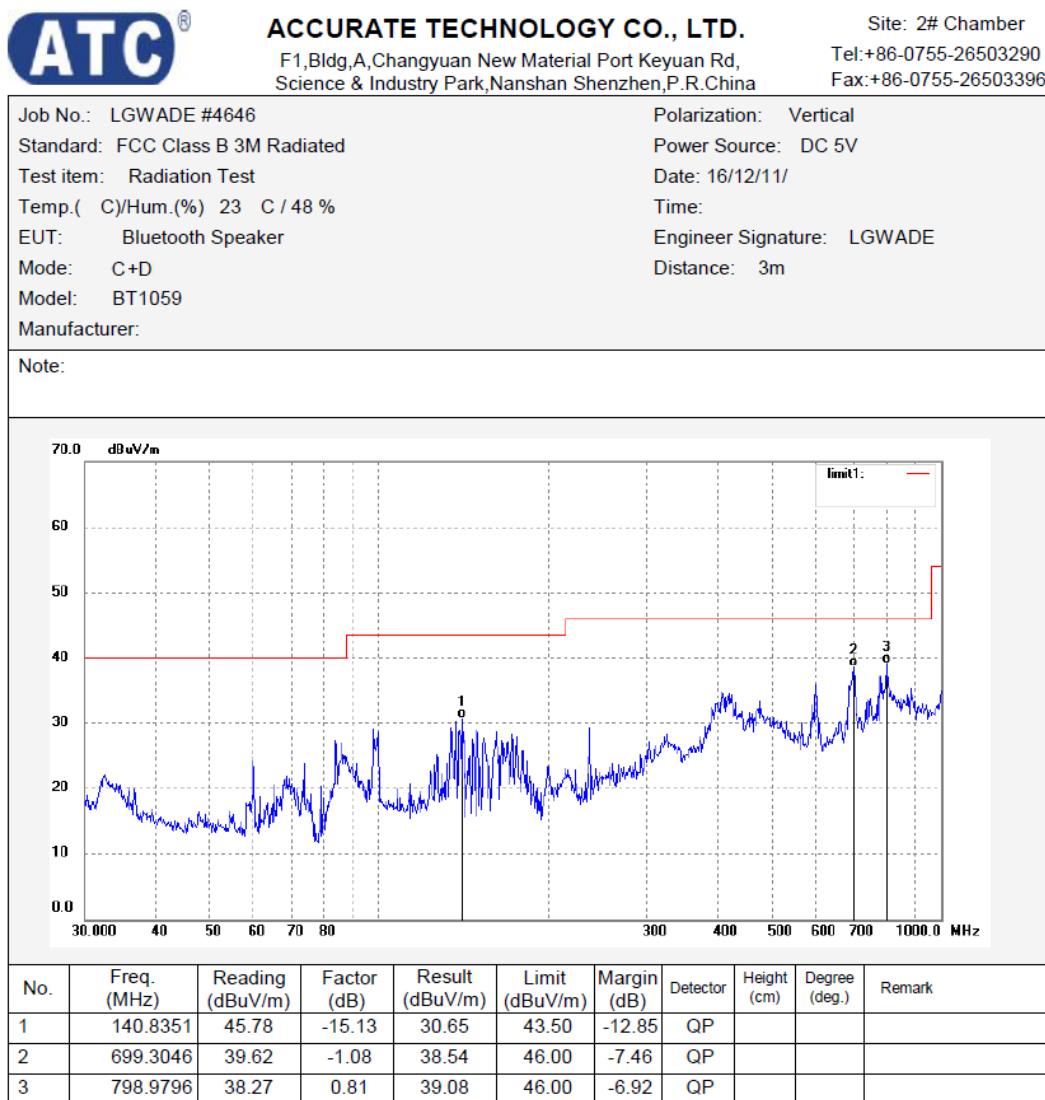


Figure 40: Test figure of Radiated emissions, Mode C+D, Above 1GHz, Horizontal



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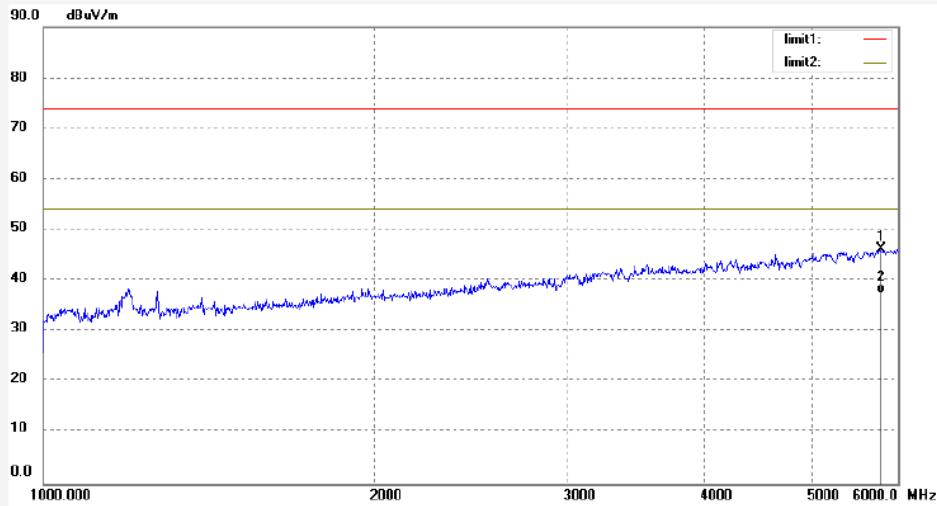
Job No.: LGWADE #4652	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: DC 5V									
Test item: Radiation Test	Date: 16/12/11/									
Temp.(C)/Hum.(%) 23 C / 48 %	Time:									
EUT: Bluetooth Speaker	Engineer Signature: LGWADE									
Mode: C+D	Distance: 3m									
Model: BT1059										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5788.796	38.20	8.04	46.24	74.00	-27.76	peak			
2	5788.796	29.41	8.04	37.45	54.00	-16.55	AVG			

Figure 41: Test figure of Radiated emissions, Mode C+D, Above 1GHz, Vertical

