

| Prüfbericht-Nr.: <i>Test report No.:</i> | 50080939 001 | Auftrags-Nr.: <i>Order No.:</i> | 164088597 | Seite 1 von 29 <i>Page 1 of 29</i> | |
|---|---|--------------------------------------|---|---------------------------------------|----------------------------------|
| Kunden-Referenz-Nr.: <i>Client reference No.:</i> | N/A | Auftragsdatum: <i>Order date:</i> | 22.03.2017 | | |
| Auftraggeber: <i>Client:</i> | THUMBS UP(UK) LTD Unit L, Braintree Industrial Estate, Brain Tree Road, South Ruislip, HA4 0EJ, United Kingdom | | | | |
| Prüfgegenstand: <i>Test item:</i> | BT boom box speaker | | | | |
| Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i> | BOOMSPKBKPRM (Trademark: PRIMARK) | | | | |
| Auftrags-Inhalt: <i>Order content:</i> | FCC approval | | | | |
| 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> | 22.03.2017 | | | | |
| Prüfmuster-Nr.: <i>Test sample No.:</i> | A000527977-001 to 003 | | | | |
| Prüfzeitraum: <i>Testing period:</i> | 22.04.2017 - 27.04.2017 | | | | |
| Ort der Prüfung: <i>Place of testing:</i> | Shenzhen Accurate Technology Co., Ltd. | | | Please refer to photo documents | |
| Prüflaboratorium: <i>Testing laboratory:</i> | TÜV Rheinland (Shenzhen) Co., Ltd. | | | | |
| Prüfergebnis*: <i>Test result*:</i> | Pass | | | | |
| geprüft von / tested by: | kontrolliert von / reviewed by: | | | | |
| 12.07.2017 | Alex Lan / Project Engineer | | 12.07.2017 | Winnie Hou / 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: 2AHHEBOOMSPKBTPRM | | | | | |
| 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: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(all) = entspricht nicht o.g. Prüfgrundlage(n) Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(all) = failed a.m. test specifications(s) N/A = nicht anwendbar N/T = nicht getestet 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> | | | | | |
| v04 | | | | | |

Prüfbericht - Nr.: **50080939 001**
Test Report No.

Seite 2 von 29
Page 2 of 29

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

6.1.1 ELECTROMAGNETIC FIELDS
RESULT: Pass

Contents

| | | |
|---------------|---|-----------|
| 1 | GENERAL REMARKS | 5 |
| 1.1 | COMPLEMENTARY MATERIALS | 5 |
| 2 | TEST SITES | 5 |
| 2.1 | TEST FACILITIES..... | 5 |
| 2.2 | LIST OF TEST AND MEASUREMENT INSTRUMENTS | 6 |
| 2.3 | TRACEABILITY | 7 |
| 2.4 | CALIBRATION | 7 |
| 2.5 | MEASUREMENT UNCERTAINTY | 7 |
| 2.6 | LOCATION OF ORIGINAL DATA | 7 |
| 2.7 | STATUS OF FACILITY USED FOR TESTING | 7 |
| 3 | GENERAL PRODUCT INFORMATION | 8 |
| 3.1 | PRODUCT FUNCTION AND INTENDED USE..... | 8 |
| 3.2 | RATINGS AND SYSTEM DETAILS | 8 |
| 3.3 | INDEPENDENT OPERATION MODES | 9 |
| 3.4 | NOISE GENERATING AND NOISE SUPPRESSING PARTS..... | 10 |
| 3.5 | SUBMITTED DOCUMENTS | 10 |
| 4 | TEST SET-UP AND OPERATION MODES | 11 |
| 4.1 | PRINCIPLE OF CONFIGURATION SELECTION | 11 |
| 4.2 | TEST OPERATION AND TEST SOFTWARE..... | 11 |
| 4.3 | SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT..... | 11 |
| 4.4 | COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE | 11 |
| 4.5 | TEST SETUP DIAGRAM..... | 12 |
| 5 | TEST RESULTS | 14 |
| 5.1 | TRANSMITTER REQUIREMENT & TEST SUITES | 14 |
| 5.1.1 | Antenna Requirement | 14 |
| 5.1.2 | Peak Output Power | 15 |
| 5.1.3 | Conducted spurious emissions measured in 100kHz Bandwidth..... | 16 |
| 5.1.4 | Spurious Emission | 17 |
| 5.1.5 | 20dB Bandwidth | 18 |
| 5.1.6 | Frequency Separation..... | 19 |
| 5.1.7 | Number of hopping frequency..... | 20 |
| 5.1.8 | Time of Occupancy | 21 |
| 5.1.9 | Conducted emissions | 22 |
| 5.1.10 | Radiated Emission | 23 |
| 6 | SAFETY HUMAN EXPOSURE | 24 |
| 6.1 | RADIO FREQUENCY EXPOSURE COMPLIANCE | 24 |
| 6.1.1 | Electromagnetic Fields | 24 |
| 7 | PHOTOGRAPHS OF THE TEST SET-UP | 25 |

Prüfbericht - Nr.: 50080939 001
Test Report No.

Seite 4 von 29
Page 4 of 29

| | | |
|----------|----------------------------------|-----------|
| 8 | LIST OF TABLES | 29 |
| 9 | LIST OF PHOTOGRAPHS | 29 |

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

Remark: *The model name and type designation were "Octangle Bluetooth Boombox" and "BT-003S" during test, finally they were changed to "BT boom box speaker" and "BOOMSPKBKPRM" by client.

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.

Prüfbericht - Nr.: 50080939 001
Test Report No.

Seite 6 von 29
Page 6 of 29

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 | 2018-01-06 |
| Test Receiver | Rohde&Schwarz | ESCS30 | 100307 | 2018-01-06 |
| Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | 2018-01-09 |
| Loop Antenna | Schwarzbeck | FMZB1516 | 1516131 | 2018-01-09 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-655 | 2018-01-09 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 9170-359 | 2018-01-09 |
| RF Switching Unit+PreAMP | Compliance Direction | RSU-M2 | 38322 | 2018-01-06 |
| Pre-Amplifier | Rohde&Schwarz | CBLU11835 40-01 | 3791 | 2018-01-06 |
| Radio Test Suite | | | | |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 101495 | 2018-01-06 |
| Conducted Emission | | | | |
| Test Receiver | Rohde & Schwarz | ESCS30 | 100307 | 2018-01-06 |
| L.I.S.N. | Schwarzbeck | NLSK8126 | 8126431 | 2018-01-06 |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100815 | 2018-01-06 |
| 50Ω Coaxial Switch | Anritsu Corp | MP59B | 6200283933 | 2018-01-06 |

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

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 Appendix 1 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 a BT boom box speaker which supports Bluetooth function.
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: | BT boom box speaker |
| Type Designation: | BOOMSPKBKPRM |
| Trade Mark: | PRIMARK |
| FCC ID | 2AHHEBOOMSPKBTPRM |

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

| Technical Specification | Value |
|---------------------------|---|
| Operating Frequency band | 2402 – 2480 MHz |
| Bluetooth Core Version | 2.1 + EDR |
| Channel Number | 79 channels |
| Channel separation | 1MHz |
| Extreme Temperature Range | -20°C to +55°C |
| Operating Voltage | DC 3.7V, 500mAh via built-in lithium Battery DC 5V, 500mA via Micro USB interface for Charging |
| Battery | Model: 523450AR Ratings: 3.7V, 500mAh |
| Modulation | GFSK, π/4DQPSK |
| Antenna Type | Internal Antenna, Non-User Replaceable |
| Antenna Gain | -0.58 dBi |

Prüfbericht - Nr.: 50080939 001
Test Report No.

Seite 9 von 29
Page 9 of 29

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

| RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channe I | 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 (BR & 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

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------|
| - Technical Description | - Circuit Diagram |
| - PCB Layout | - Instruction Manual |
| - Photo Document | - 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 |

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)

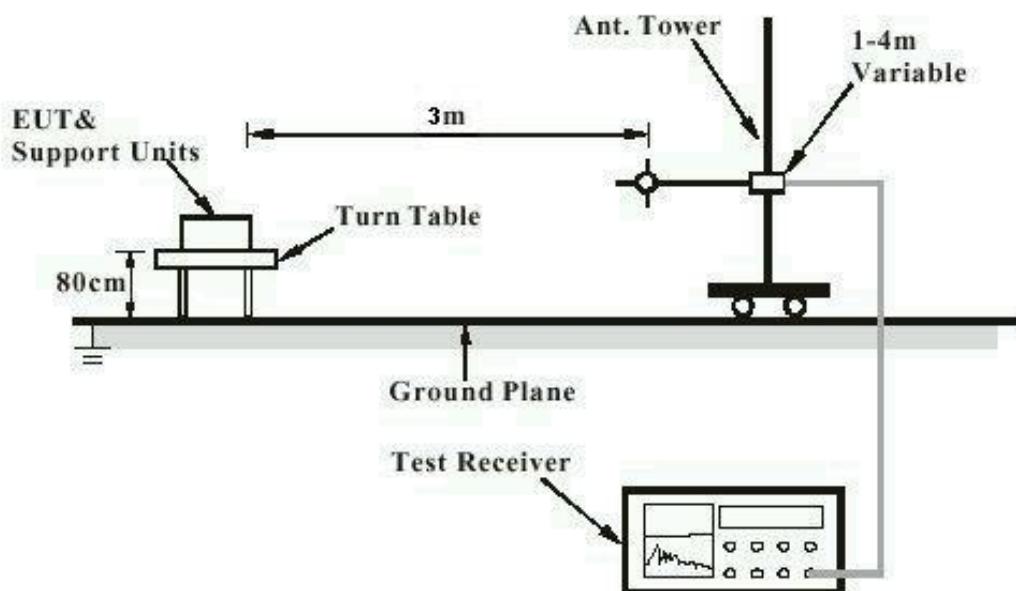
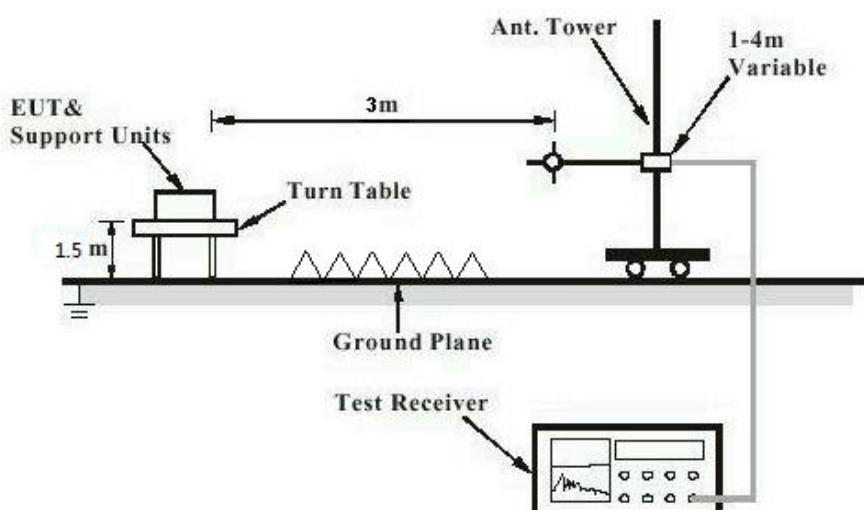


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



Prüfbericht - Nr.: **50080939 001**
Test Report No.

Seite 13 von 29
Page 13 of 29

Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

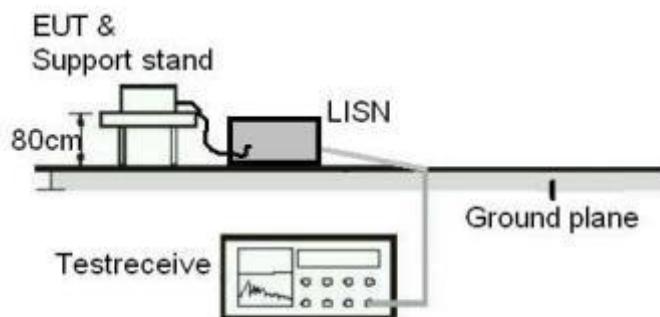
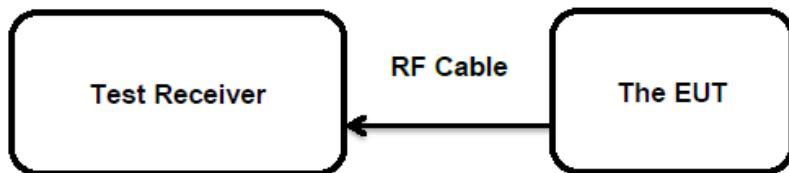


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



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 -0.58 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.

Refer to EUT photo for details.

Prüfbericht - Nr.: 50080939 001
Test Report No.
Seite 15 von 29
Page 15 of 29

5.1.2 Peak Output Power

RESULT:
Passed

| | | |
|-------------------|---|-----------------------|
| Test date | : | 2017-04-22 |
| Test standard | : | FCC Part 15.247(b)(1) |
| Basic standard | : | ANSI C63.10: 2013 |
| Limit | : | FHSS < 1 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) | |
| GFSK | 2402 | -3.75 | 0.00042 | < 1 |
| | 2441 | -3.55 | 0.00044 | |
| | 2480 | -4.17 | 0.00038 | |
| $\pi/4$ DQPSK | 2402 | -2.46 | 0.00057 | < 1 |
| | 2441 | -2.24 | 0.00060 | |
| | 2480 | -2.79 | 0.00053 | |

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

Prüfbericht - Nr.: **50080939 001**
Test Report No.

Seite 16 von 29
Page 16 of 29

5.1.3 Conducted spurious emissions measured in 100kHz Bandwidth

RESULT:

Passed

| | | |
|-------------------|---|--|
| Date of testing | : | 2017-04-22 |
| 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.

Prüfbericht - Nr.: **50080939 001**
*Test Report No.***Seite 17 von 29**
*Page 17 of 29***5.1.4 Spurious Emission****RESULT:****Passed**

| | | |
|-------------------|---|--|
| Date of testing | : | 2017-04-22 |
| 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 9 kHz to the tenth harmonics.

For details refer to Appendix 1.

Prüfbericht - Nr.: 50080939 001
*Test Report No.*Seite 18 von 29
Page 18 of 29**5.1.5 20dB Bandwidth****RESULT:****Passed**

Date of testing : 2017-04-22
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) |
|---------------|-------------------------|----------------------|-----------------------------|-------------|
| GFSK | 2402 | 911.7 | 607.800 | / |
| | 2441 | 907.4 | 604.933 | |
| | 2480 | 907.4 | 604.933 | |
| $\pi/4$ DQPSK | 2402 | 1189.6 | 793.067 | / |
| | 2441 | 1189.6 | 793.067 | |
| | 2480 | 1189.6 | 793.067 | |

5.1.6 Frequency Separation

RESULT:

Passed

Date of testing : 2017-04-22
 Test standard : FCC part 15.247(a)(1)
 Basic standard : ANSI C63.10: 2013
 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 (KHz) | Limit (kHz) | Result |
|-------------------|-------------------------|-----------------------------------|--|--------|
| Low Channel | 2402 | 1002.9 | $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth | Pass |
| Adjacency Channel | 2403 | | | |
| Mid Channel | 2441 | 1002.9 | $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth | Pass |
| Adjacency Channel | 2442 | | | |
| High Channel | 2480 | 1002.9 | $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth | Pass |
| Adjacency Channel | 2479 | | | |

Prüfbericht - Nr.: **50080939 001**
*Test Report No.***Seite 20 von 29**
*Page 20 of 29***5.1.7 Number of hopping frequency****RESULT:****Passed**

Date of testing : 2017-04-22
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 |
|----------------------------------|--------------------------------------|-----------|--------|
| <u>2400</u> to <u>2483.5</u> MHz | 79 | ≥ 15 | Pass |

Prüfbericht - Nr.: 50080939 001
Test Report No.
Seite 21 von 29
Page 21 of 29

5.1.8 Time of Occupancy

RESULT:
Passed

| | | |
|-------------------|---|----------------------------|
| Date of testing | : | 2017-04-22 |
| 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) |
|---------------|---------|-------------|------------------|------------------------|-----------|
| GFSK | 2402 | DH1 | 0.399 | 0.128 | < 0.4s |
| | | DH3 | 1.659 | 0.265 | |
| | | DH5 | 2.935 | 0.313 | |
| | 2441 | DH1 | 0.399 | 0.128 | |
| | | DH3 | 1.681 | 0.269 | |
| | | DH5 | 2.935 | 0.313 | |
| | 2480 | DH1 | 0.399 | 0.128 | |
| | | DH3 | 1.681 | 0.269 | |
| | | DH5 | 2.935 | 0.313 | |
| $\pi/4$ DQPSK | 2402 | 2DH1 | 0.406 | 0.130 | < 0.4s |
| | | 2DH3 | 1.681 | 0.269 | |
| | | 2DH5 | 2.935 | 0.313 | |
| | 2441 | 2DH1 | 0.413 | 0.132 | |
| | | 2DH3 | 1.667 | 0.267 | |
| | | 2DH5 | 2.935 | 0.313 | |
| | 2480 | 2DH1 | 0.406 | 0.130 | |
| | | 2DH3 | 1.681 | 0.269 | |
| | | 2DH5 | 2.957 | 0.315 | |

Note:

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

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

Prüfbericht - Nr.: **50080939 001**
*Test Report No.***Seite 22 von 29**
*Page 22 of 29***5.1.9 Conducted emissions****RESULT:****Passed**

| | | |
|-------------------|---|---|
| Date of testing | : | 2017-04-27 |
| 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+D, C+D |
| Earthing | : | Not connected |
| Ambient temperature | : | 25°C |
| Relative humidity | : | 55% |
| Atmospheric pressure | : | 101 kPa |

For details refer to Appendix 1.

Prüfbericht - Nr.: **50080939 001**
*Test Report No.***Seite 23 von 29**
*Page 23 of 29***5.1.10 Radiated Emission****RESULT:****Passed**

| | | |
|-------------------|---|---|
| Date of testing | : | 2017-04-22 |
| 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 | : | DC 3.7V, 500mAh via built-in lithium Battery DC 5V, 500mA via Micro USB interface for Charging |
| Operation mode | : | C, D |
| Earthing | : | Not connected |
| Ambient temperature | : | 23°C |
| Relative humidity | : | 48% |
| Atmospheric pressure | : | 101 kPa |

Test data refer to Appendix 1.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

Test standard : FCC KDB Publication 447498 v06

Measurement Record:

The minimum distance for the EUT is 5mm.

Since maximum peak output power of the transmitter is -2.24 dBm ≈ 0.60 mW <10 mW.

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

8 List of Tables

| | |
|---|----|
| Table 1: List of Test and Measurement Equipment | 6 |
| Table 2: Rating of EUT | 8 |
| Table 3: Technical Specification of Bluetooth (BDR & EDR) | 8 |
| Table 4: RF channel and frequency of Bluetooth (BDR & EDR mode) | 9 |
| Table 5: Test result of Peak Output Power | 15 |
| Table 6: Test result of 20dB Bandwidth | 18 |
| Table 7: Test result of Frequency Separation | 19 |
| Table 8: Test result of Number of hopping frequency | 20 |
| Table 9: Test result of Time of Occupancy | 21 |

9 List of Photographs

| | |
|---|----|
| Photograph 1: Set-up for Radio Spectrum Test | 25 |
| Photograph 2: Set-up for Spurious Emissions (9kHz-30MHz) | 25 |
| Photograph 3: Set-up for Spurious Emissions (30MHz-1GHz) | 26 |
| Photograph 4: Set-up for Spurious Emissions (1GHz-18GHz) | 26 |
| Photograph 5: Set-up for Spurious Emissions (18GHz-26GHz) | 27 |
| Photograph 6: Set-up for Conducted Emissions | 27 |
| Photograph 7: Set-up for Radiated Emissions, below 1GHz | 28 |
| Photograph 8: Set-up for Radiated Emissions, above 1GHz | 28 |

List of Figures

| | |
|--|----|
| Figure 1: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 1GHz) | 2 |
| Figure 2: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 1GHz) | 3 |
| Figure 3: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz – 18GHz) | 4 |
| Figure 4: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz) | 5 |
| Figure 5: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 1GHz) | 6 |
| Figure 6: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 1GHz) | 7 |
| Figure 7: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz) | 8 |
| Figure 8: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz) | 9 |
| Figure 9: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 1GHz) | 10 |
| Figure 10: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 1GHz) | 11 |
| Figure 11: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz – 18GHz) | 12 |
| Figure 12: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz) | 13 |
| Figure 13: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal | 14 |
| Figure 14: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical..... | 15 |
| Figure 15: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal | 16 |
| Figure 16: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical..... | 17 |
| Figure 17: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.1 | 18 |
| Figure 18: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.2 | 18 |
| Figure 19: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.3 | 19 |
| Figure 20: Test figure of Frequency Band Edge in 100kHz Bandwidth, Mode A.1 | 19 |
| Figure 21: Test figure of Frequency Band Edge in 100kHz Bandwidth, Mode A.3 | 20 |
| Figure 22: Test figure of Conducted emissions, Mode B+D, line live | 21 |
| Figure 23: Test figure of Conducted emissions, Mode B+D, line neutral..... | 22 |
| Figure 24: Test figure of Conducted emissions, Mode C+D, line live | 23 |
| Figure 25: Test figure of Conducted emissions, Mode C+D, line neutral..... | 24 |
| Figure 26: Test figure of Radiated emissions, Mode C, Below 1GHz, Horizontal..... | 25 |
| Figure 27: Test figure of Radiated emissions, Mode C, Below 1GHz, Vertical..... | 26 |
| Figure 28: Test figure of Radiated emissions, Mode C, Above 1GHz, Horizontal | 27 |
| Figure 29: Test figure of Radiated emissions, Mode C, Above 1GHz, Vertical | 28 |
| Figure 30: Test figure of Radiated emissions, Mode D, Below 1GHz, Horizontal | 29 |
| Figure 31: Test figure of Radiated emissions, Mode D, Below 1GHz, Vertical | 30 |
| Figure 32: Test figure of Radiated emissions, Mode D, Above 1GHz, Horizontal | 31 |
| Figure 33: Test figure of Radiated emissions, Mode D, Above 1GHz, Vertical | 32 |

Note 1: Testing was carried out within frequency range 9 kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

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

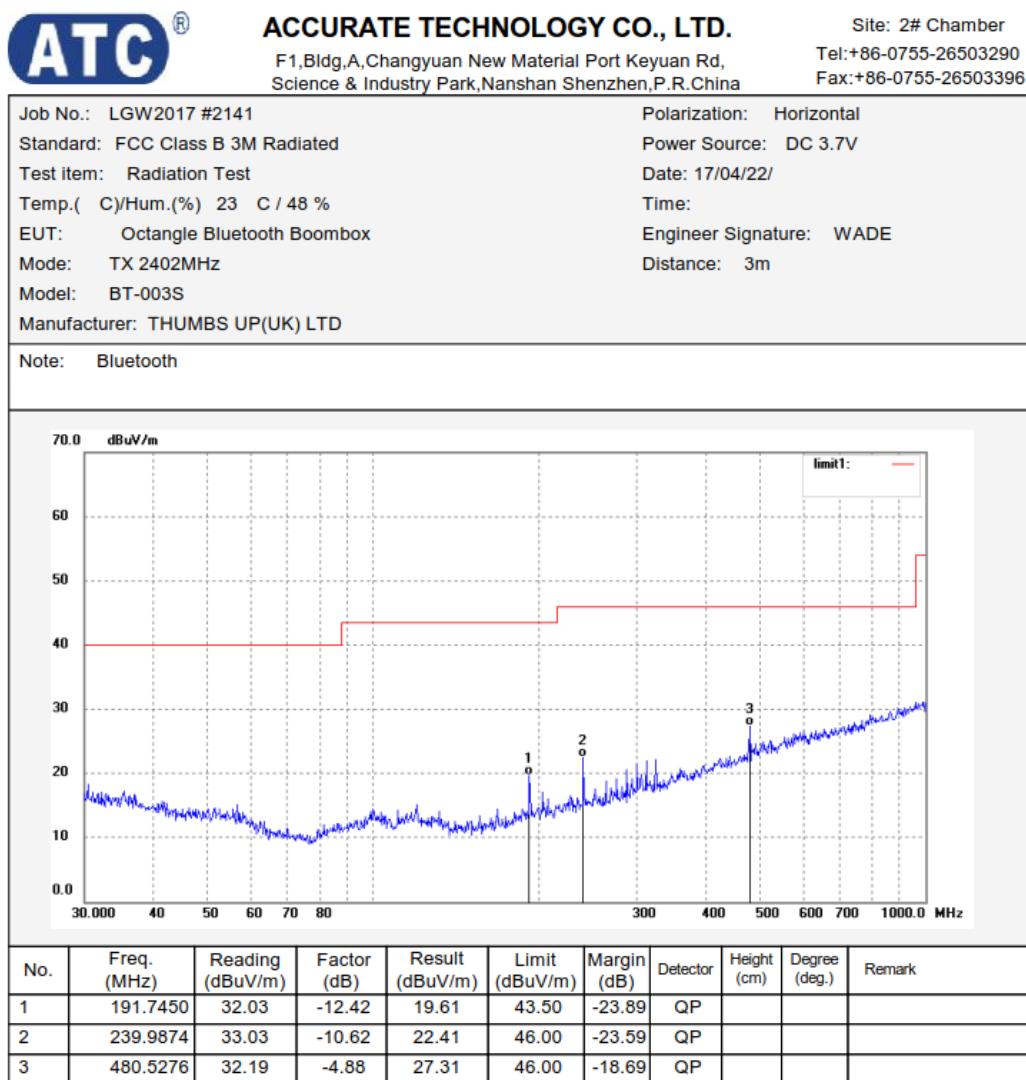


Figure 2: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 1GHz)

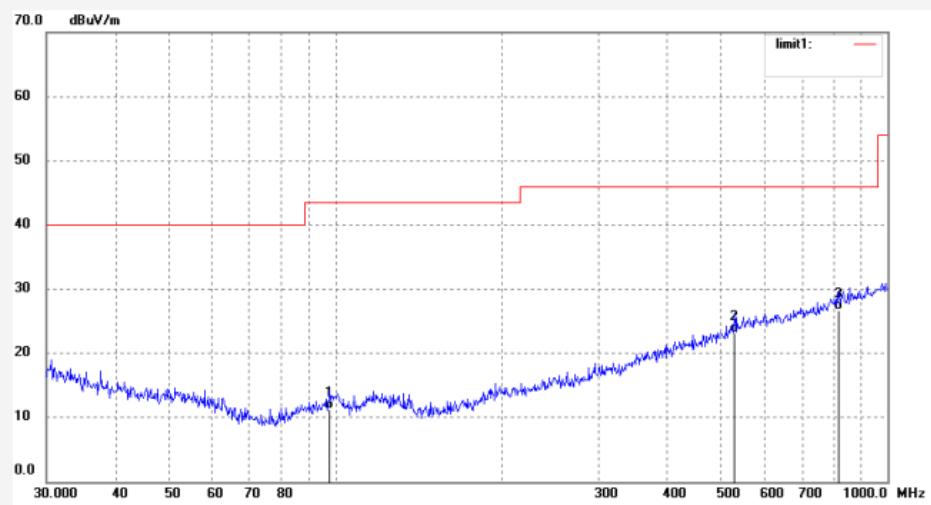


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| | |
|-----------------------------------|--------------------------|
| Job No.: LGW2017 #2142 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: DC 3.7V |
| Test item: Radiation Test | Date: 17/04/22/ |
| Temp.(C)/Hum.(%) 23 C / 48 % | Time: |
| EUT: Octangle Bluetooth Boombox | Engineer Signature: WADE |
| Mode: TX 2402MHz | Distance: 3m |
| Model: BT-003S | |
| Manufacturer: THUMBS UP(UK) LTD | |
| 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 | 97.7982 | 25.01 | -13.80 | 11.21 | 43.50 | -32.29 | QP | | | |
| 2 | 528.2458 | 26.93 | -3.71 | 23.22 | 46.00 | -22.78 | QP | | | |
| 3 | 815.9678 | 25.66 | 1.08 | 26.74 | 46.00 | -19.26 | QP | | | |

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

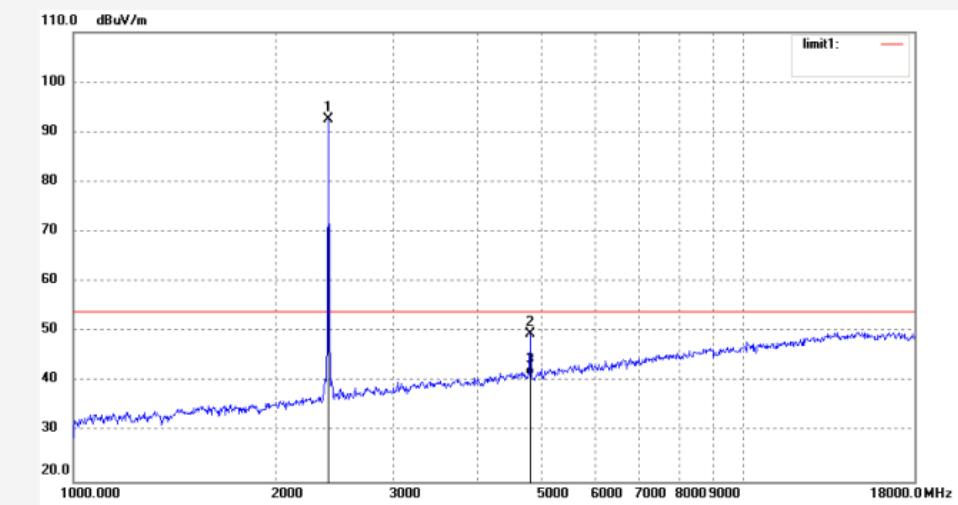


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| | |
|-----------------------------------|--------------------------|
| Job No.: LGW2017 #2109 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: DC 3.7V |
| Test item: Radiation Test | Date: 17/04/22/ |
| Temp.(C)/Hum.(%) 23 C / 48 % | Time: |
| EUT: Octangle Bluetooth Boombox | Engineer Signature: WADE |
| Mode: TX 2402MHz | Distance: 3m |
| Model: BT-003S | |
| Manufacturer: THUMBS UP(UK) LTD | |
| 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 | 94.26 | -1.61 | 92.65 | / | / | peak | | | |
| 2 | 4804.025 | 44.75 | 4.90 | 49.65 | 74.00 | -24.35 | peak | | | |
| 3 | 4804.025 | 36.41 | 4.90 | 41.31 | 54.00 | -12.69 | AVG | | | |

Figure 4: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz)

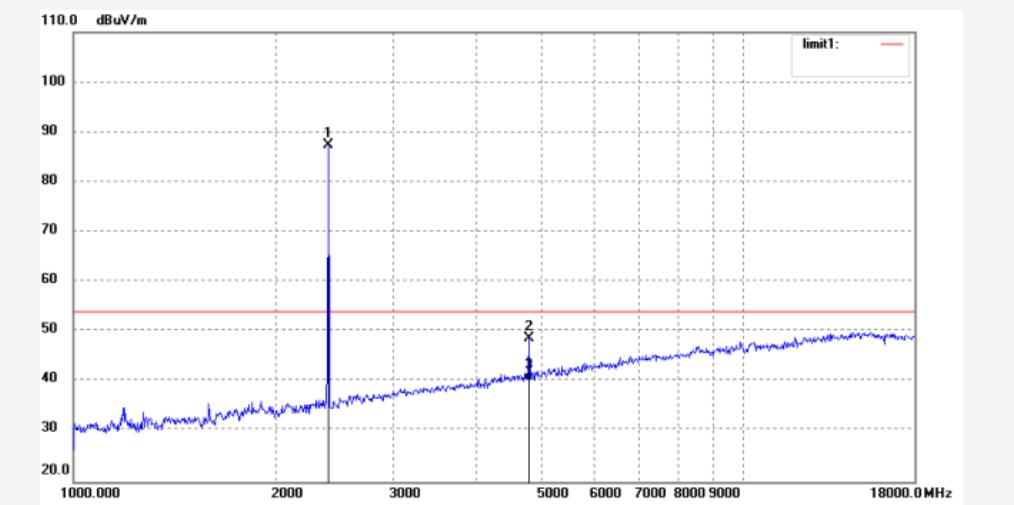


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| | |
|-----------------------------------|--------------------------|
| Job No.: LGW2017 #2110 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: DC 3.7V |
| Test item: Radiation Test | Date: 17/04/22/ |
| Temp.(C)/Hum.(%) 23 C / 48 % | Time: |
| EUT: Octangle Bluetooth Boombox | Engineer Signature: WADE |
| Mode: TX 2402MHz | Distance: 3m |
| Model: BT-003S | |
| Manufacturer: THUMBS UP(UK) LTD | |
| 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 | 89.08 | -1.61 | 87.47 | / | / | peak | | | |
| 2 | 4804.026 | 43.85 | 4.90 | 48.75 | 74.00 | -25.25 | peak | | | |
| 3 | 4804.026 | 35.34 | 4.90 | 40.24 | 54.00 | -13.76 | AVG | | | |

Figure 5: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 1GHz)

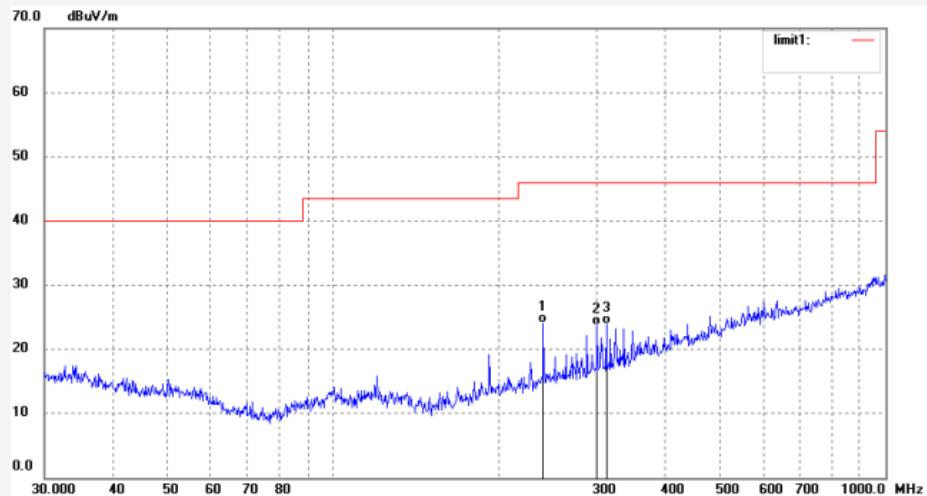


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| | | | |
|-------------------|----------------------------|---------------------|------------|
| Job No.: | LGW2017 #2144 | Polarization: | Horizontal |
| Standard: | FCC Class B 3M Radiated | Power Source: | DC 3.7V |
| Test item: | Radiation Test | Date: | 17/04/22 |
| Temp.(C)/Hum.(%) | 23 C / 48 % | Time: | |
| EUT: | Octangle Bluetooth Boombox | Engineer Signature: | WADE |
| Mode: | TX 2441MHz | Distance: | 3m |
| Model: | BT-003S | | |
| Manufacturer: | THUMBS UP(UK) LTD | | |
| 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 | 239.9874 | 34.73 | -10.62 | 24.11 | 46.00 | -21.89 | QP | | | |
| 2 | 300.3672 | 32.68 | -9.01 | 23.67 | 46.00 | -22.33 | QP | | | |
| 3 | 312.1792 | 32.53 | -8.66 | 23.87 | 46.00 | -22.13 | QP | | | |

Figure 6: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 1GHz)

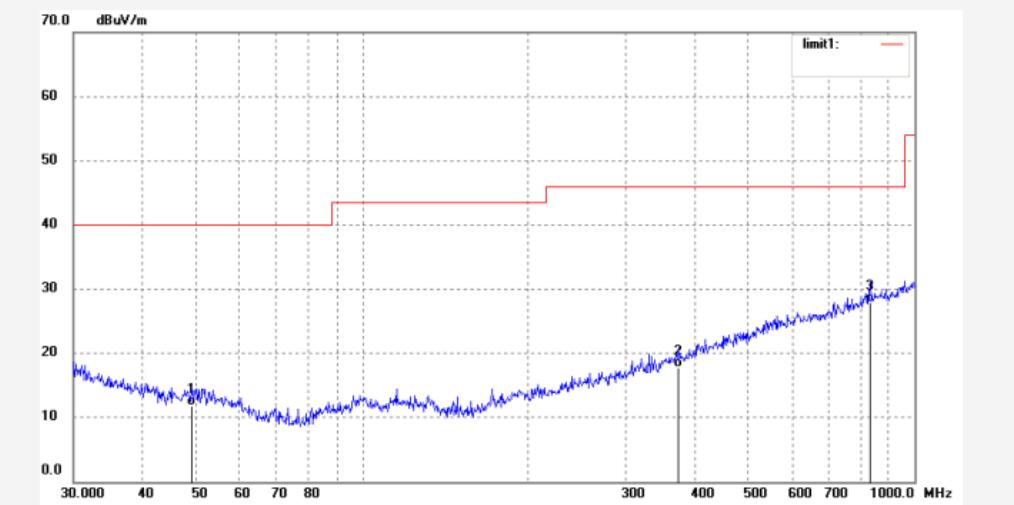


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| | |
|-----------------------------------|--------------------------|
| Job No.: LGW2017 #2143 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: DC 3.7V |
| Test item: Radiation Test | Date: 17/04/22/ |
| Temp.(C)/Hum.(%) 23 C / 48 % | Time: |
| EUT: Octangle Bluetooth Boombox | Engineer Signature: WADE |
| Mode: TX 2441MHz | Distance: 3m |
| Model: BT-003S | |
| Manufacturer: THUMBS UP(UK) LTD | |
| 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 | 49.1865 | 24.43 | -12.58 | 11.85 | 40.00 | -28.15 | QP | | | |
| 2 | 373.3110 | 24.92 | -7.11 | 17.81 | 46.00 | -28.19 | QP | | | |
| 3 | 830.4002 | 26.61 | 1.37 | 27.98 | 46.00 | -18.02 | QP | | | |

Figure 7: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz)

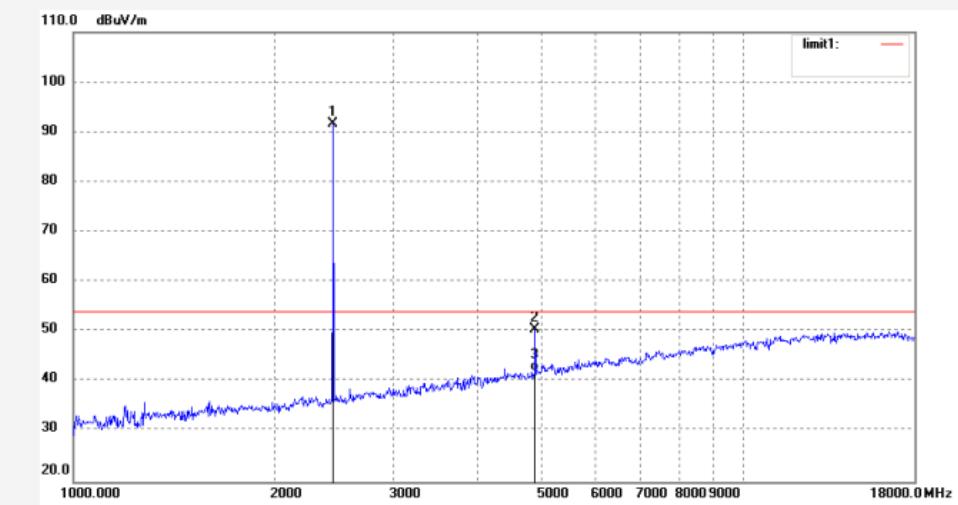


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| | |
|-----------------------------------|--------------------------|
| Job No.: LGW2017 #2113 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: DC 3.7V |
| Test item: Radiation Test | Date: 17/04/22/ |
| Temp.(C)/Hum.(%) 23 C / 48 % | Time: |
| EUT: Octangle Bluetooth Boombox | Engineer Signature: WADE |
| Mode: TX 2441MHz | Distance: 3m |
| Model: BT-003S | |
| Manufacturer: THUMBS UP(UK) LTD | |
| 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 | 2441.000 | 93.03 | -1.44 | 91.59 | / | / | peak | | | |
| 2 | 4882.027 | 44.96 | 5.61 | 50.57 | 74.00 | -23.43 | peak | | | |
| 3 | 4882.027 | 36.48 | 5.61 | 42.09 | 54.00 | -11.91 | AVG | | | |

Figure 8: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz)

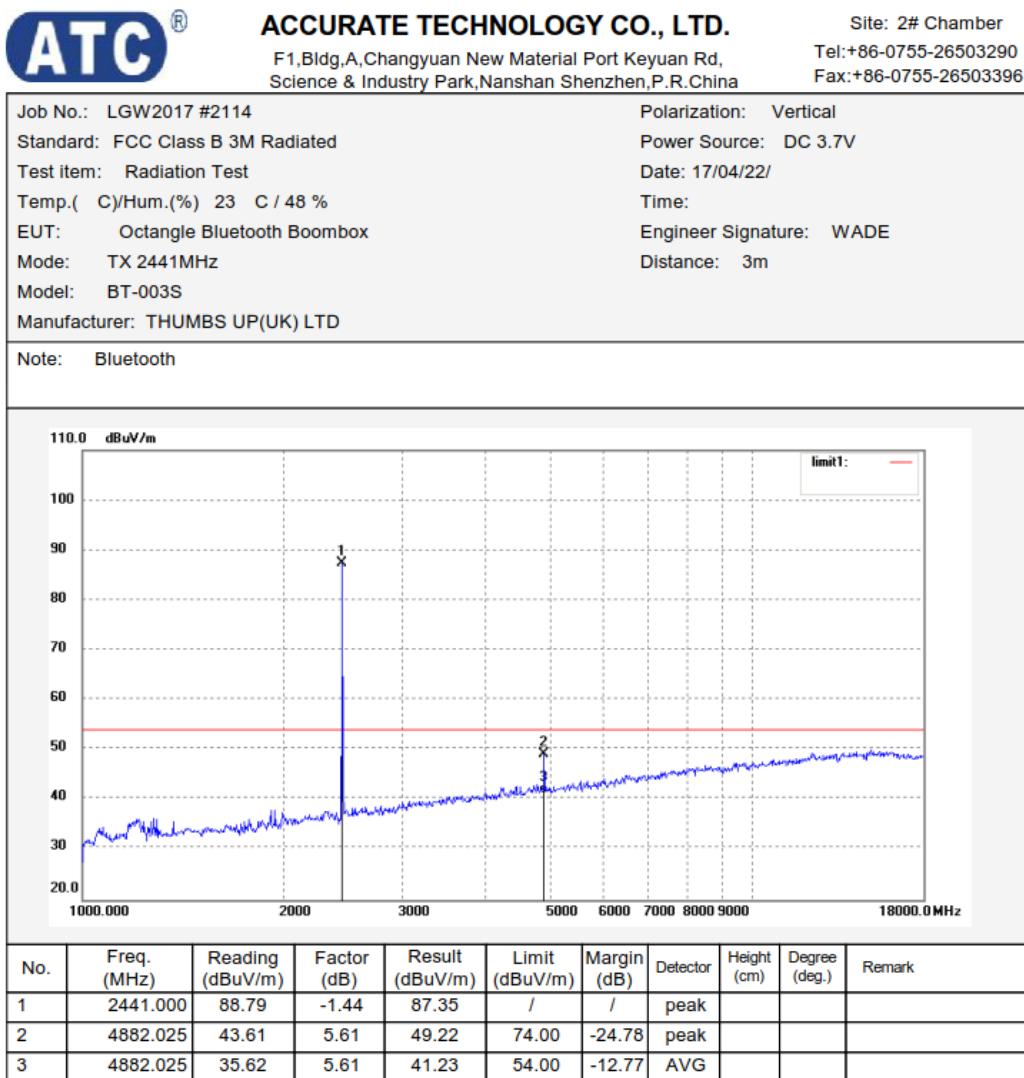


Figure 9: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 1GHz)

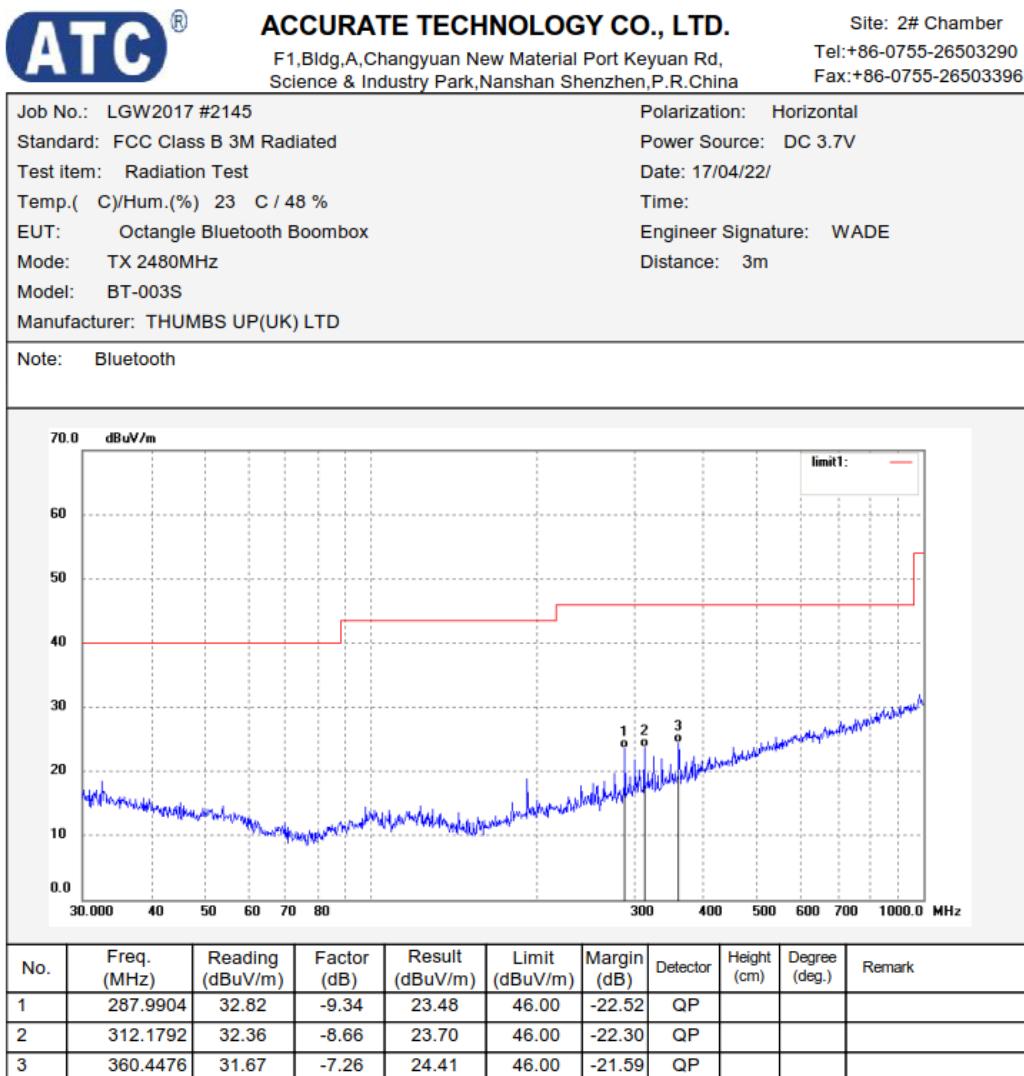


Figure 10: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 1GHz)

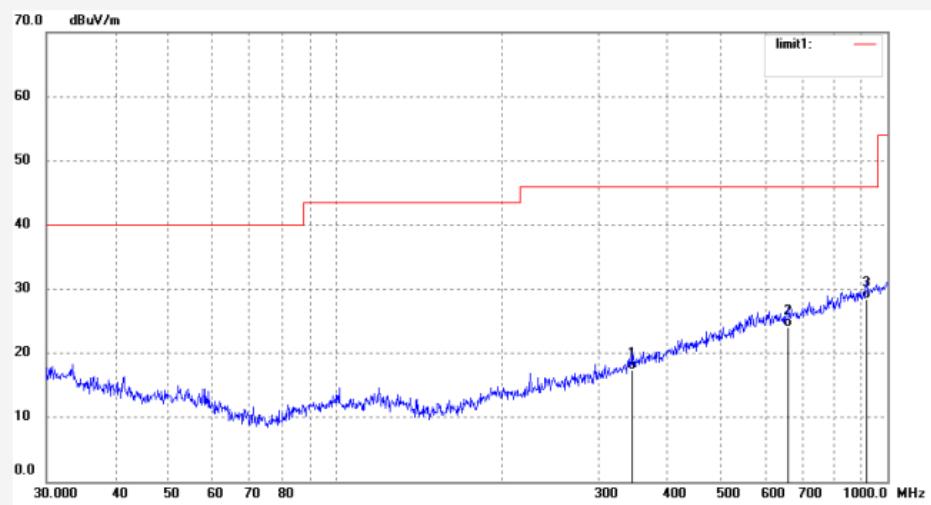


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| | |
|-----------------------------------|--------------------------|
| Job No.: LGW2017 #2146 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: DC 3.7V |
| Test item: Radiation Test | Date: 17/04/22/ |
| Temp.(C)/Hum.(%) 23 C / 48 % | Time: |
| EUT: Octangle Bluetooth Boombox | Engineer Signature: WADE |
| Mode: TX 2480MHz | Distance: 3m |
| Model: BT-003S | |
| Manufacturer: THUMBS UP(UK) LTD | |
| 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 | 344.3854 | 24.99 | -7.57 | 17.42 | 46.00 | -28.58 | QP | | | |
| 2 | 661.1504 | 25.73 | -1.59 | 24.14 | 46.00 | -21.86 | QP | | | |
| 3 | 916.0687 | 25.96 | 2.40 | 28.36 | 46.00 | -17.64 | QP | | | |

Figure 11: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz –18GHz)

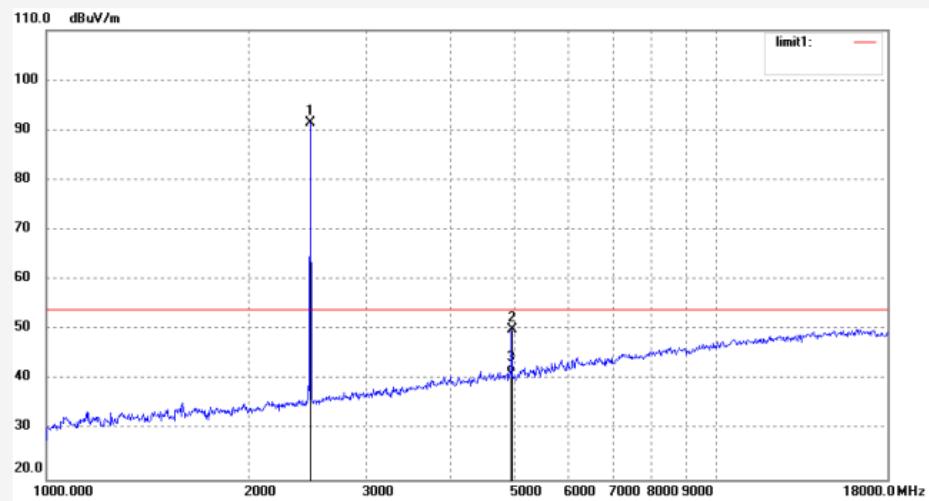


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| | |
|-----------------------------------|--------------------------|
| Job No.: LGW2017 #2116 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: DC 3.7V |
| Test item: Radiation Test | Date: 17/04/22/ |
| Temp.(C)/Hum.(%) 23 C / 48 % | Time: |
| EUT: Octangle Bluetooth Boombox | Engineer Signature: WADE |
| Mode: TX 2480MHz | Distance: 3m |
| Model: BT-003S | |
| Manufacturer: THUMBS UP(UK) LTD | |
| 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 | 92.87 | -1.40 | 91.47 | / | / | peak | | | |
| 2 | 4960.027 | 43.91 | 6.10 | 50.01 | 74.00 | -23.99 | peak | | | |
| 3 | 4960.027 | 35.15 | 6.10 | 41.25 | 54.00 | -12.75 | AVG | | | |

Figure 12: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz)

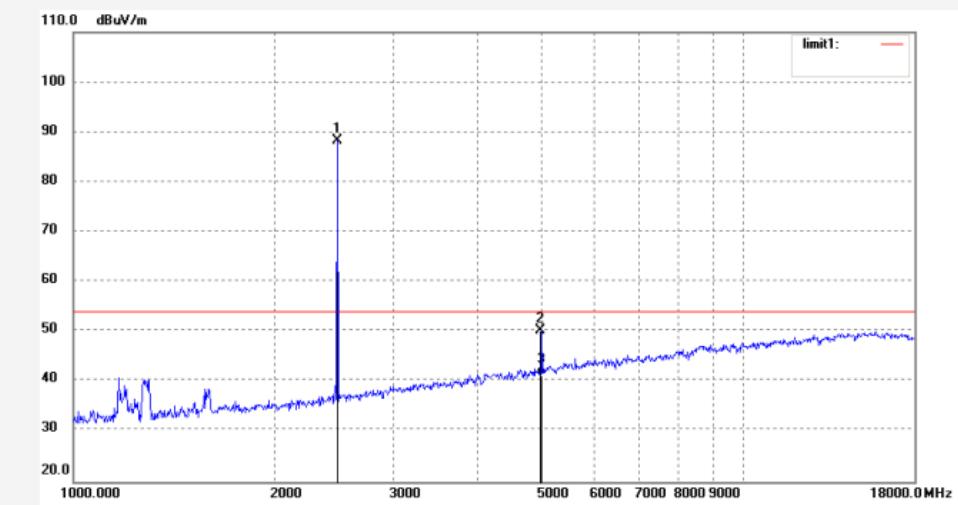


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| | |
|-----------------------------------|--------------------------|
| Job No.: LGW2017 #2115 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: DC 3.7V |
| Test item: Radiation Test | Date: 17/04/22/ |
| Temp.(C)/Hum.(%) 23 C / 48 % | Time: |
| EUT: Octangle Bluetooth Boombox | Engineer Signature: WADE |
| Mode: TX 2480MHz | Distance: 3m |
| Model: BT-003S | |
| Manufacturer: THUMBS UP(UK) LTD | |
| 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 | 89.69 | -1.40 | 88.29 | / | / | peak | | | |
| 2 | 4960.028 | 44.12 | 6.10 | 50.22 | 74.00 | -23.78 | peak | | | |
| 3 | 4960.028 | 35.15 | 6.10 | 41.25 | 54.00 | -12.75 | AVG | | | |

Figure 13: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal

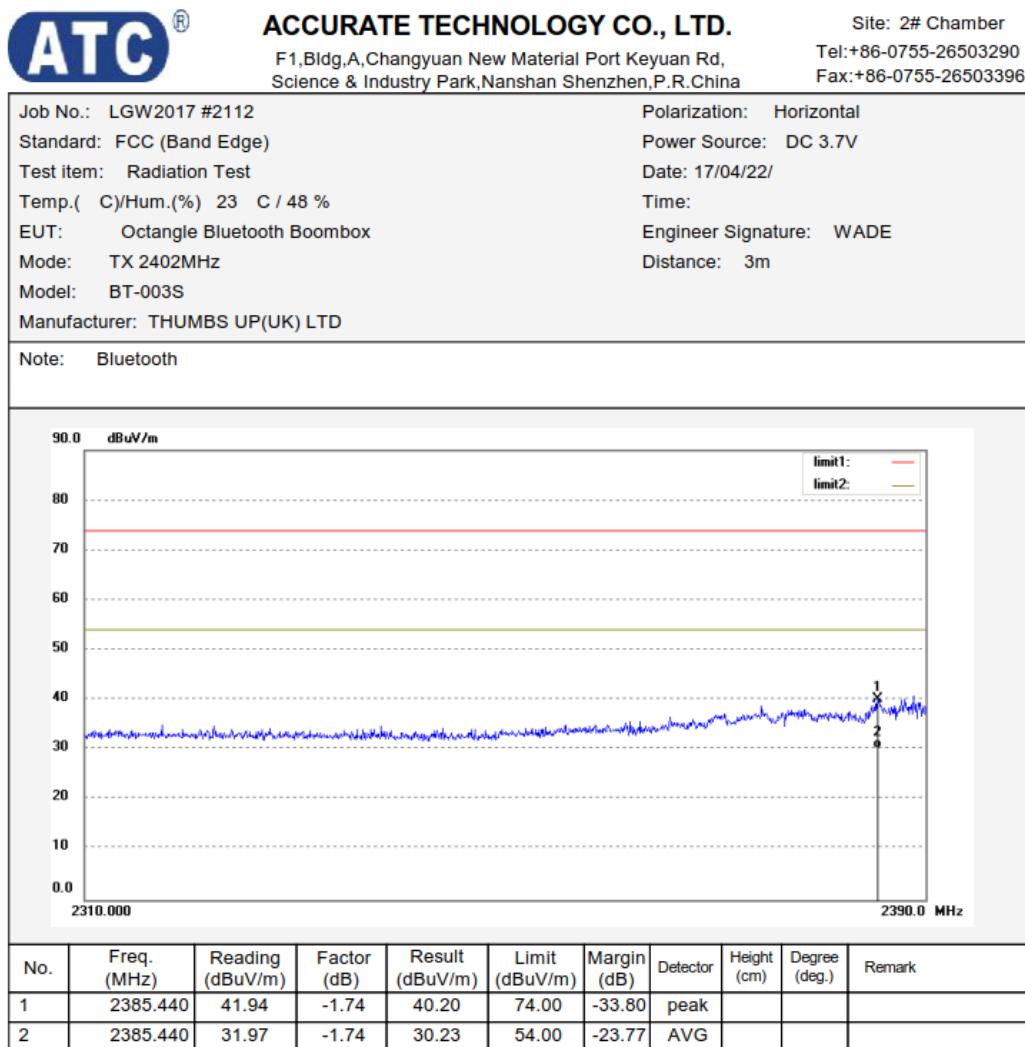


Figure 14: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical

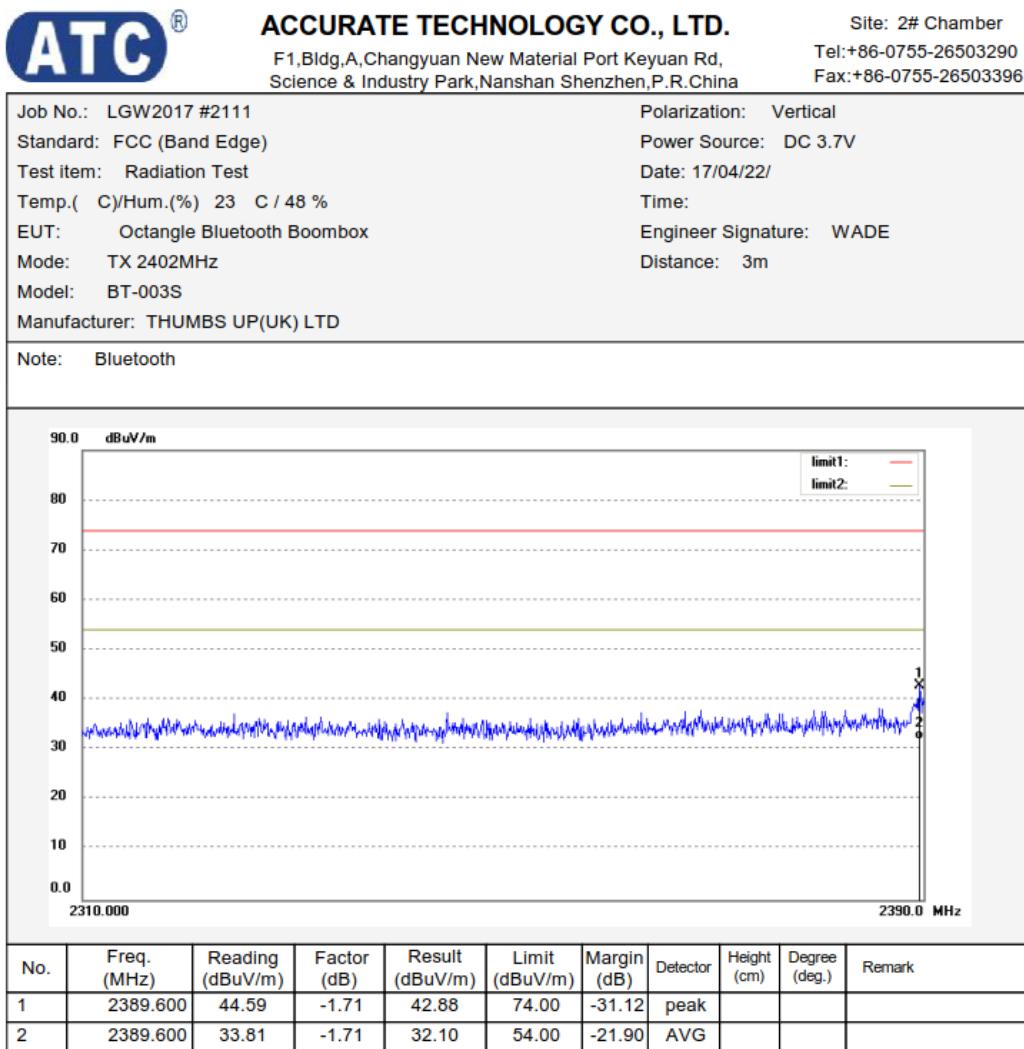


Figure 15: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal

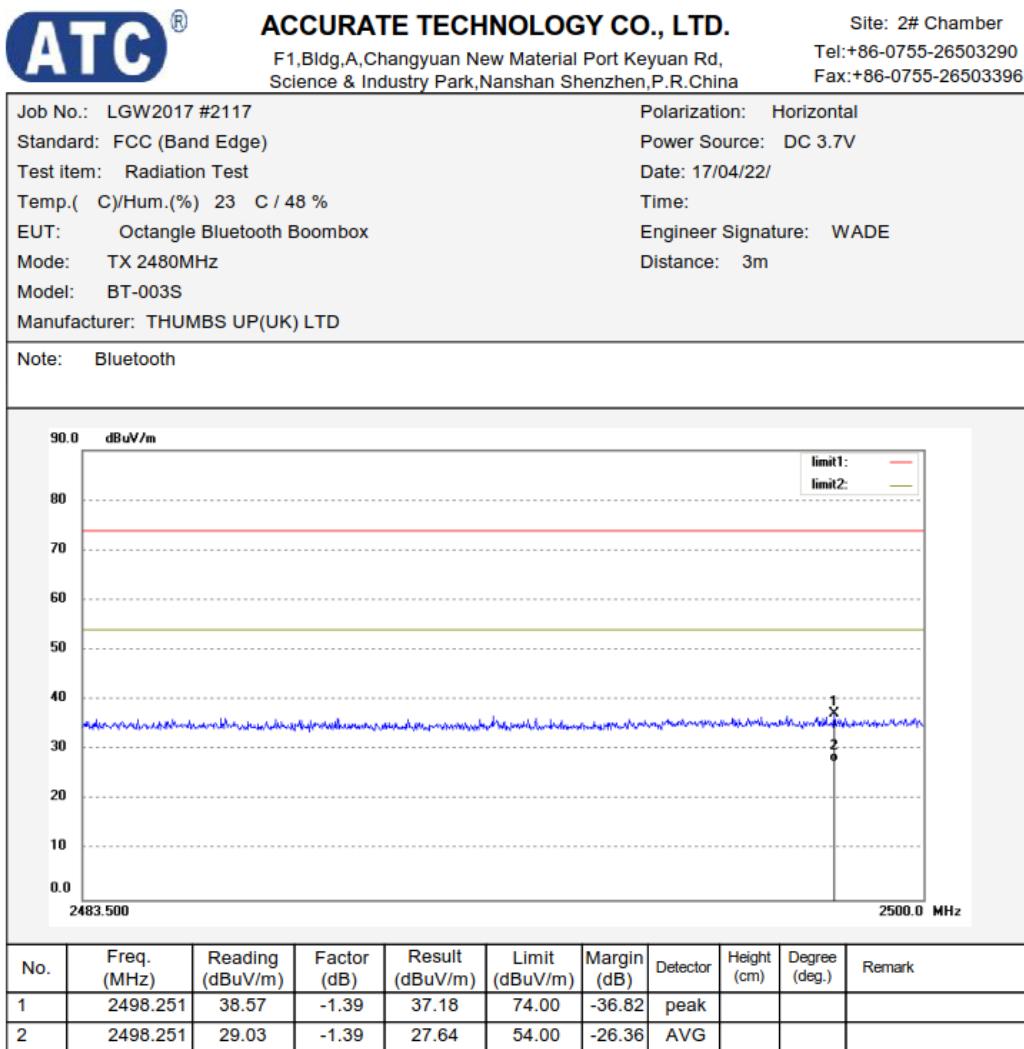


Figure 16: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical

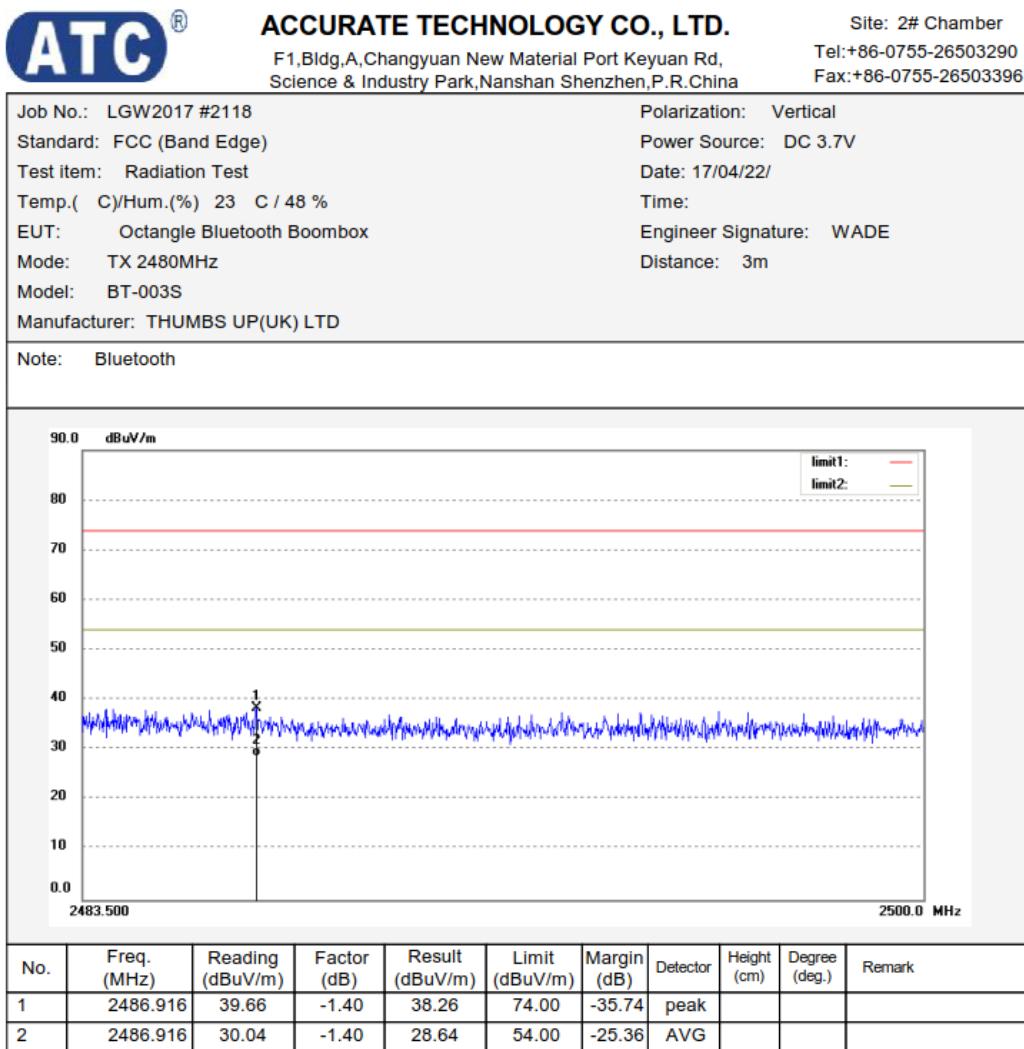


Figure 17: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.1

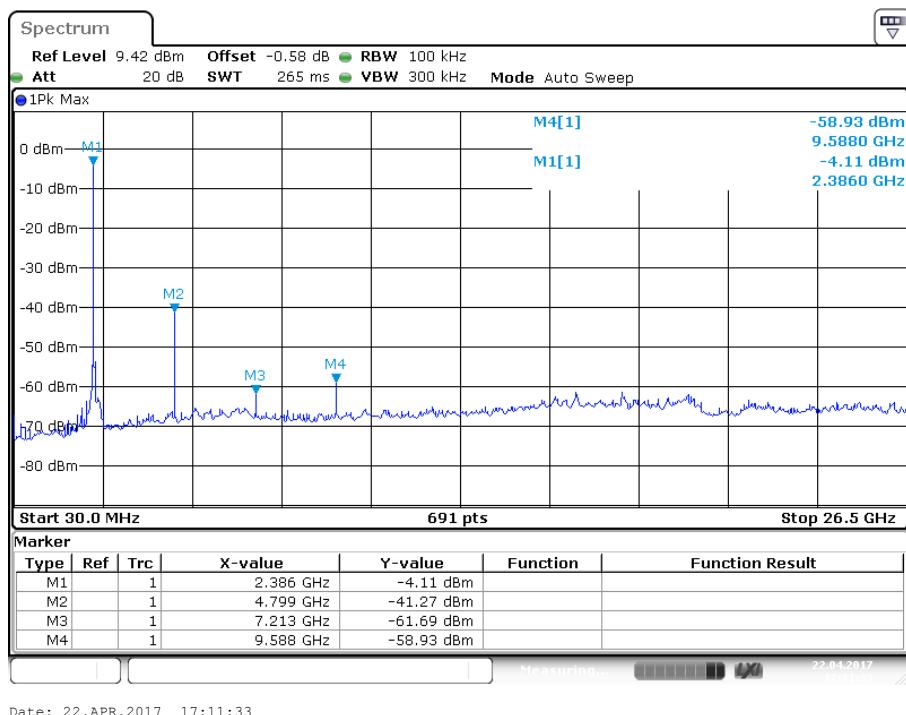


Figure 18: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.2

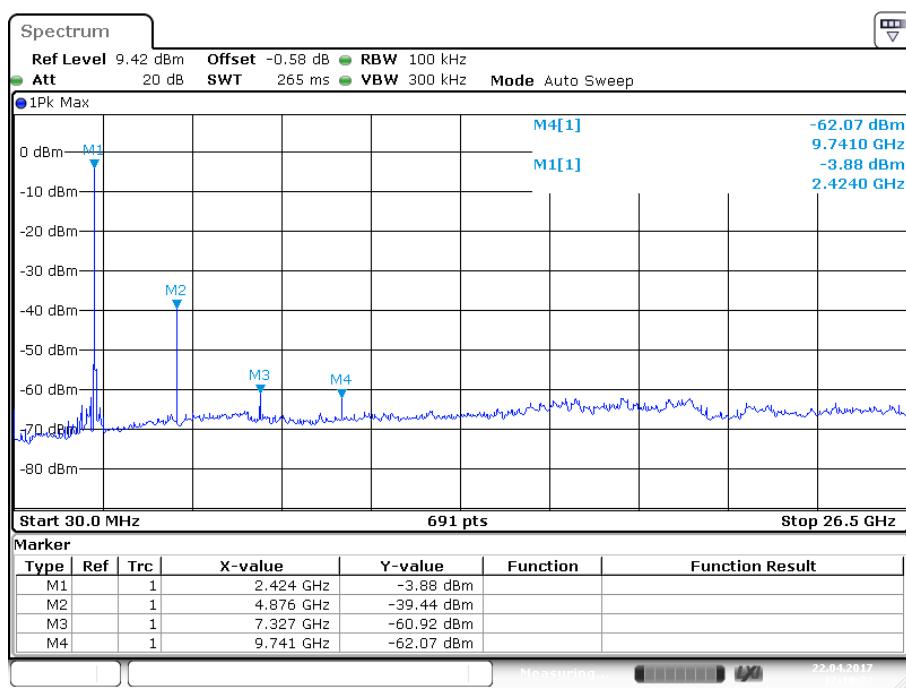


Figure 19: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.3

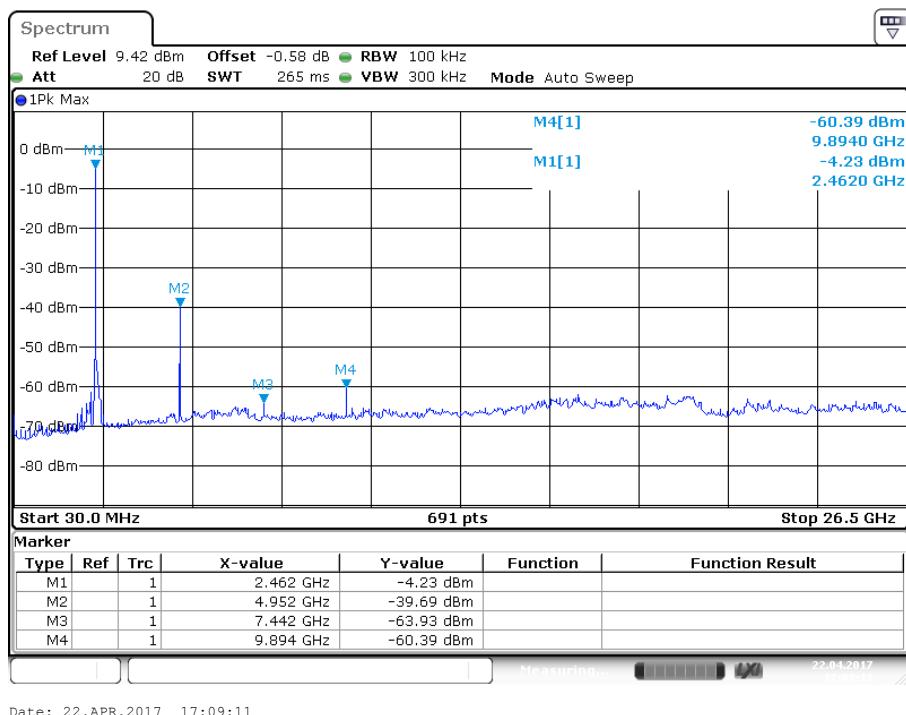


Figure 20: Test figure of Frequency Band Edge in 100kHz Bandwidth, Mode A.1

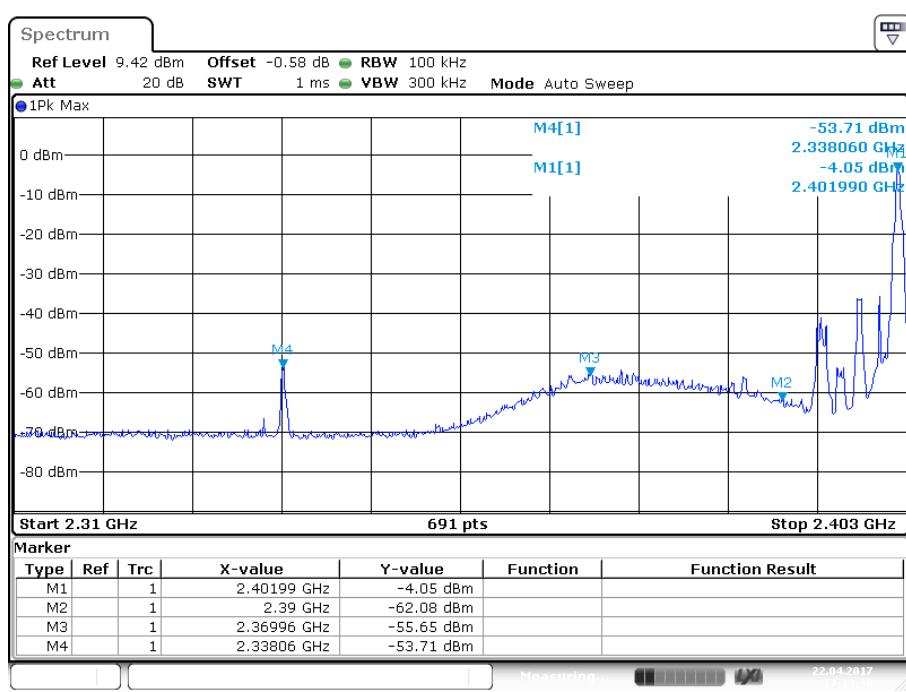


Figure 21: Test figure of Frequency Band Edge in 100kHz Bandwidth, Mode A.3

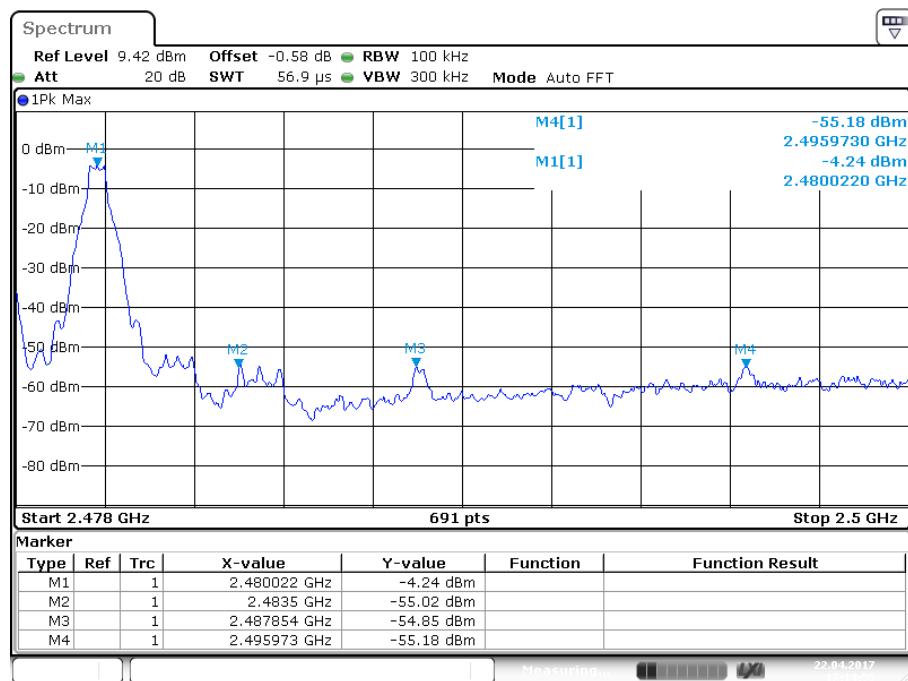


Figure 22: Test figure of Conducted emissions, Mode B+D, line live

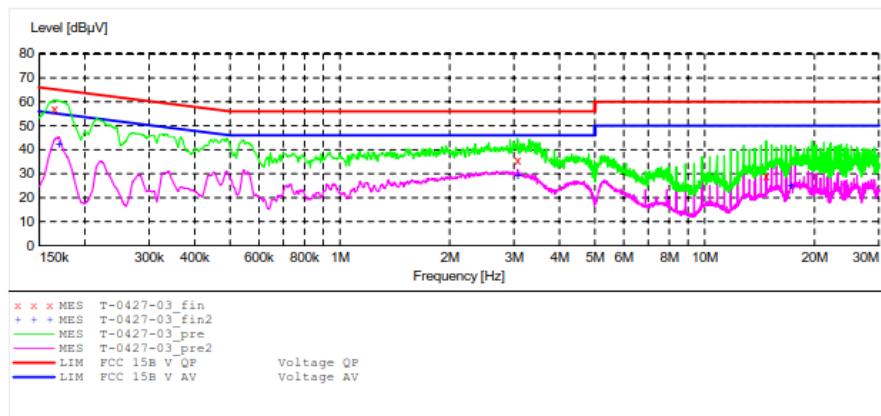
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Octangle Bluetooth Boombox M/N:BT-003S
Manufacturer: THUMBS UP(UK) LTD
Operating Condition: Charging + Audio in
Test Site: 1#Shielding Room
Operator: LGWADE
Test Specification: L 120V/60Hz
Comment: Mains Port
Start of Test: 4/27/2017 /

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

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. | IF Time | 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: "T-0427-03_fin"

| 4/27/2017 | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
|-----------|-----------|------------|--------|------------|--------|----------|------|-----|
| | MHz | dB μ V | dB | dB μ V | dB | | | |
| | 0.165000 | 57.20 | 10.5 | 65 | 8.0 | QP | L1 | GND |
| | 3.070000 | 35.70 | 11.1 | 56 | 20.3 | QP | L1 | GND |
| | 14.740000 | 29.10 | 11.4 | 60 | 30.9 | QP | L1 | GND |

MEASUREMENT RESULT: "T-0427-03_fin2"

| 4/27/2017 | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
|-----------|-----------|------------|--------|------------|--------|----------|------|-----|
| | MHz | dB μ V | dB | dB μ V | dB | | | |
| | 0.170000 | 42.00 | 10.5 | 55 | 13.0 | AV | L1 | GND |
| | 3.070000 | 29.10 | 11.1 | 46 | 16.9 | AV | L1 | GND |
| | 17.215000 | 24.90 | 11.4 | 50 | 25.1 | AV | L1 | GND |

Figure 23: Test figure of Conducted emissions, Mode B+D, line neutral

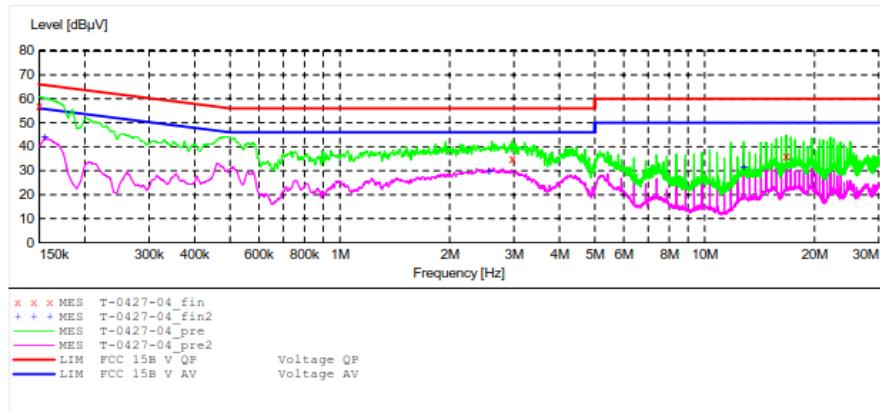
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Octangle Bluetooth Boombox M/N:BT-003S
 Manufacturer: THUMBS UP(UK) LTD
 Operating Condition: Charging + Audio in
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 4/27/2017 /

SCAN TABLE: "V 9K-30MHz 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 | NSLK8126 2008 |
| | | | Average | | | |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak | 1.0 s | 9 kHz | NSLK8126 2008 |
| | | | Average | | | |



MEASUREMENT RESULT: "T-0427-04_fin"

| 4/27/2017 | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
|-----------|-----------|-------|--------|-------|--------|----------|------|-----|
| | MHz | dBμV | dB | dBμV | dB | | | |
| | 0.150000 | 57.20 | 10.5 | 66 | 8.8 | QP | N | GND |
| | 2.970000 | 34.90 | 11.1 | 56 | 21.1 | QP | N | GND |
| | 16.720000 | 36.00 | 11.4 | 60 | 24.0 | QP | N | GND |

MEASUREMENT RESULT: "T-0427-04_fin2"

| 4/27/2017 | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
|-----------|-----------|-------|--------|-------|--------|----------|------|-----|
| | MHz | dBμV | dB | dBμV | dB | | | |
| | 0.155000 | 44.10 | 10.5 | 56 | 11.6 | AV | N | GND |
| | 2.560000 | 29.70 | 11.0 | 46 | 16.3 | AV | N | GND |
| | 12.790000 | 31.50 | 11.3 | 50 | 18.5 | AV | N | GND |

Figure 24: Test figure of Conducted emissions, Mode C+D, line live

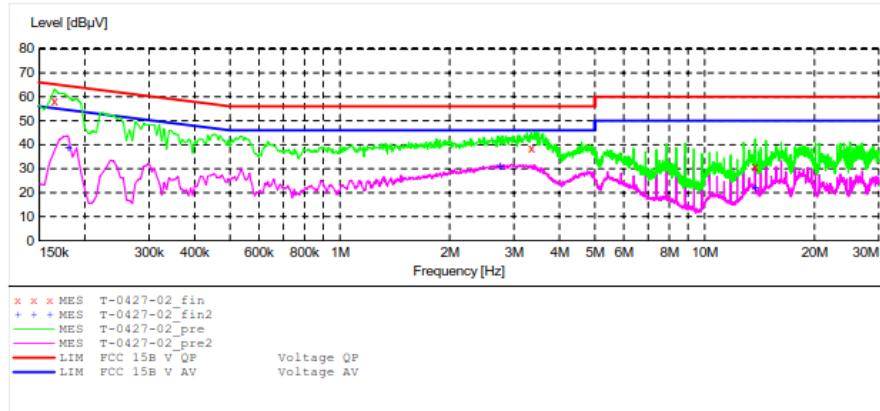
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Octangle Bluetooth Boombox M/N:BT-003S
 Manufacturer: THUMBS UP(UK) LTD
 Operating Condition: Transmitting
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 4/27/2017 /

SCAN TABLE: "V 9K-30MHz 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 | NSLK8126 2008 |
| | | | Average | | | |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak | 1.0 s | 9 kHz | NSLK8126 2008 |
| | | | Average | | | |



MEASUREMENT RESULT: "T-0427-02_fin"

| 4/27/2017 | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
|-----------|-----------|-------|--------|-------|--------|----------|------|-----|
| | MHz | dBμV | dB | dBμV | dB | | | |
| | 0.165000 | 58.40 | 10.5 | 65 | 6.8 | QP | L1 | GND |
| | 3.350000 | 38.60 | 11.1 | 56 | 17.4 | QP | L1 | GND |
| | 13.750000 | 30.50 | 11.3 | 60 | 29.5 | QP | L1 | GND |

MEASUREMENT RESULT: "T-0427-02_fin2"

| 4/27/2017 | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
|-----------|-----------|-------|--------|-------|--------|----------|------|-----|
| | MHz | dBμV | dB | dBμV | dB | | | |
| | 0.180000 | 38.60 | 10.5 | 55 | 15.9 | AV | L1 | GND |
| | 2.750000 | 30.50 | 11.0 | 46 | 15.5 | AV | L1 | GND |
| | 13.750000 | 22.10 | 11.3 | 50 | 27.9 | AV | L1 | GND |

Figure 25: Test figure of Conducted emissions, Mode C+D, line neutral

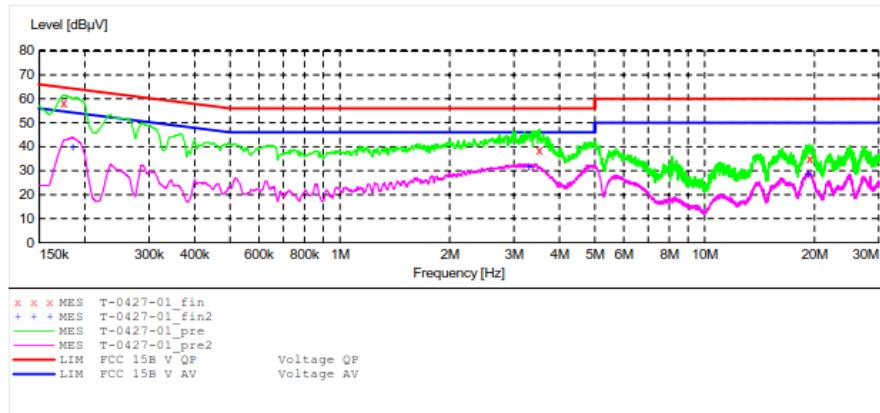
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Octangle Bluetooth Boombox M/N:BT-003S
 Manufacturer: THUMBS UP(UK) LTD
 Operating Condition: Transmitting
 Test Site: 1#Shielding Room
 Operator: LGWADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 4/27/2017 /

SCAN TABLE: "V 9K-30MHz 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 | NSLK8126 2008 |
| | | | Average | | | |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak | 1.0 s | 9 kHz | NSLK8126 2008 |
| | | | Average | | | |



MEASUREMENT RESULT: "T-0427-01_fin"

| 4/27/2017 | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
|-----------|-----------|-------|--------|-------|--------|----------|------|-----|
| | MHz | dBμV | dB | dBμV | dB | | | |
| | 0.175000 | 57.90 | 10.5 | 65 | 6.8 | QP | N | GND |
| | 3.520000 | 38.80 | 11.1 | 56 | 17.2 | QP | N | GND |
| | 19.375000 | 34.80 | 11.4 | 60 | 25.2 | QP | N | GND |

MEASUREMENT RESULT: "T-0427-01_fin2"

| 4/27/2017 | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
|-----------|-----------|-------|--------|-------|--------|----------|------|-----|
| | MHz | dBμV | dB | dBμV | dB | | | |
| | 0.185000 | 39.90 | 10.5 | 54 | 14.4 | AV | N | GND |
| | 3.290000 | 31.50 | 11.1 | 46 | 14.5 | AV | N | GND |
| | 19.180000 | 28.10 | 11.4 | 50 | 21.9 | AV | N | GND |

Figure 26: Test figure of Radiated emissions, Mode C, Below 1GHz, Horizontal

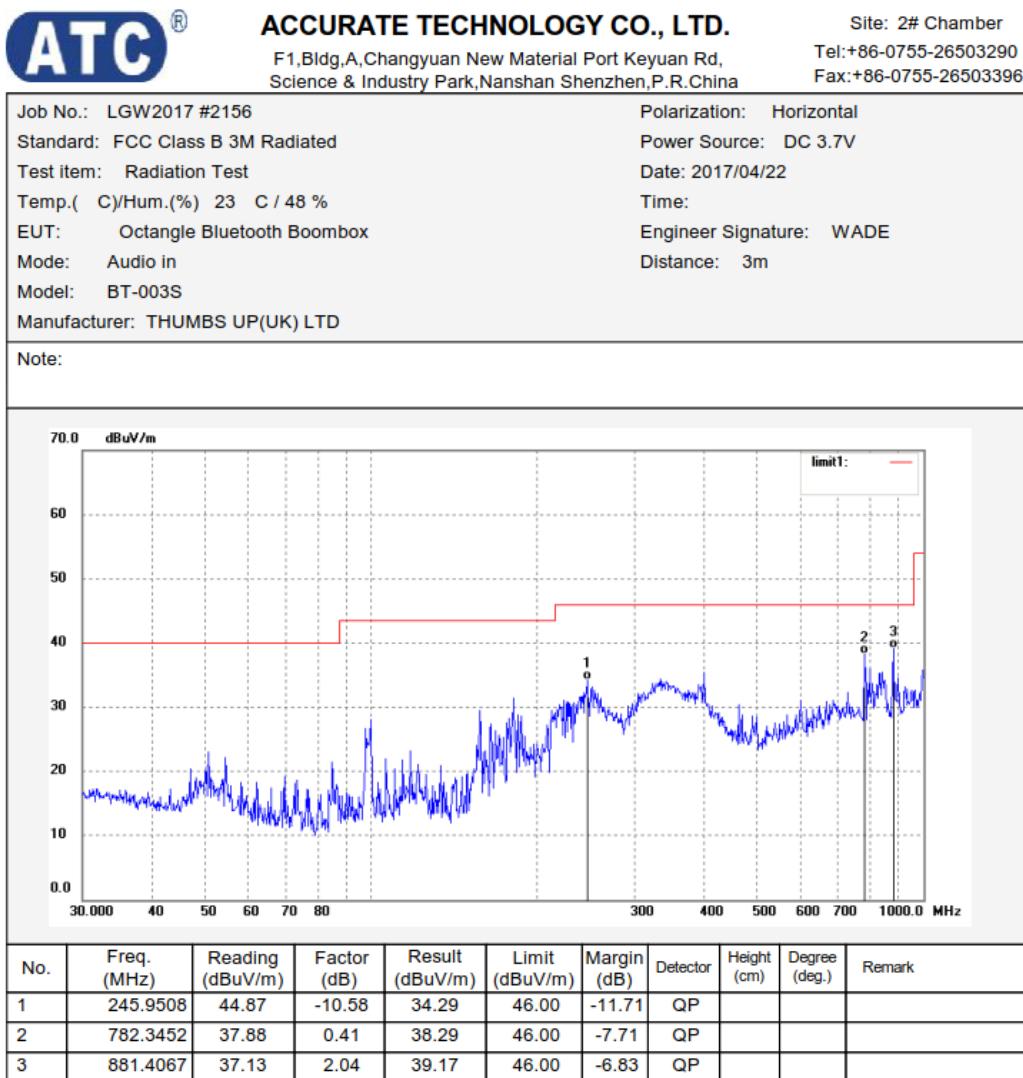


Figure 27: Test figure of Radiated emissions, Mode C, Below 1GHz, Vertical

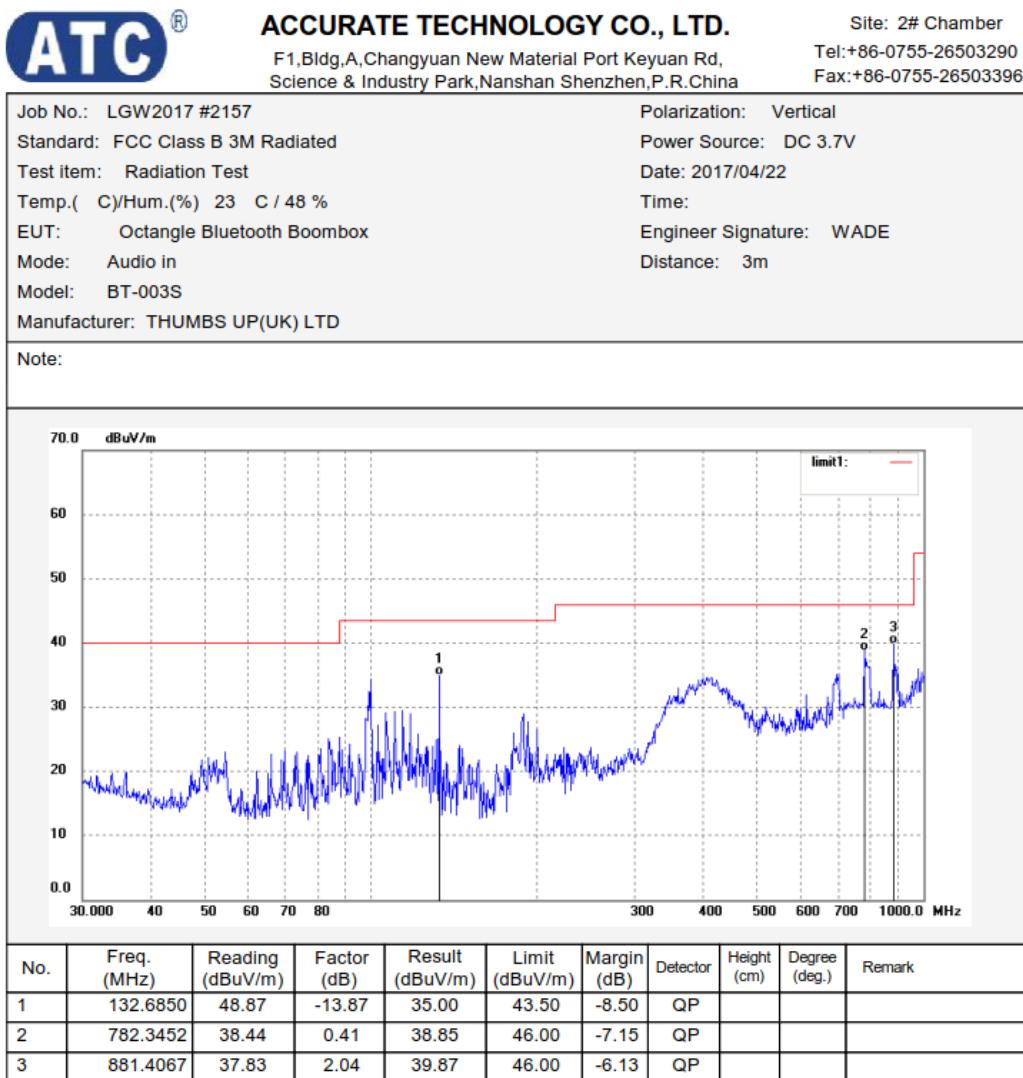


Figure 28: Test figure of Radiated emissions, Mode C, Above 1GHz, Horizontal

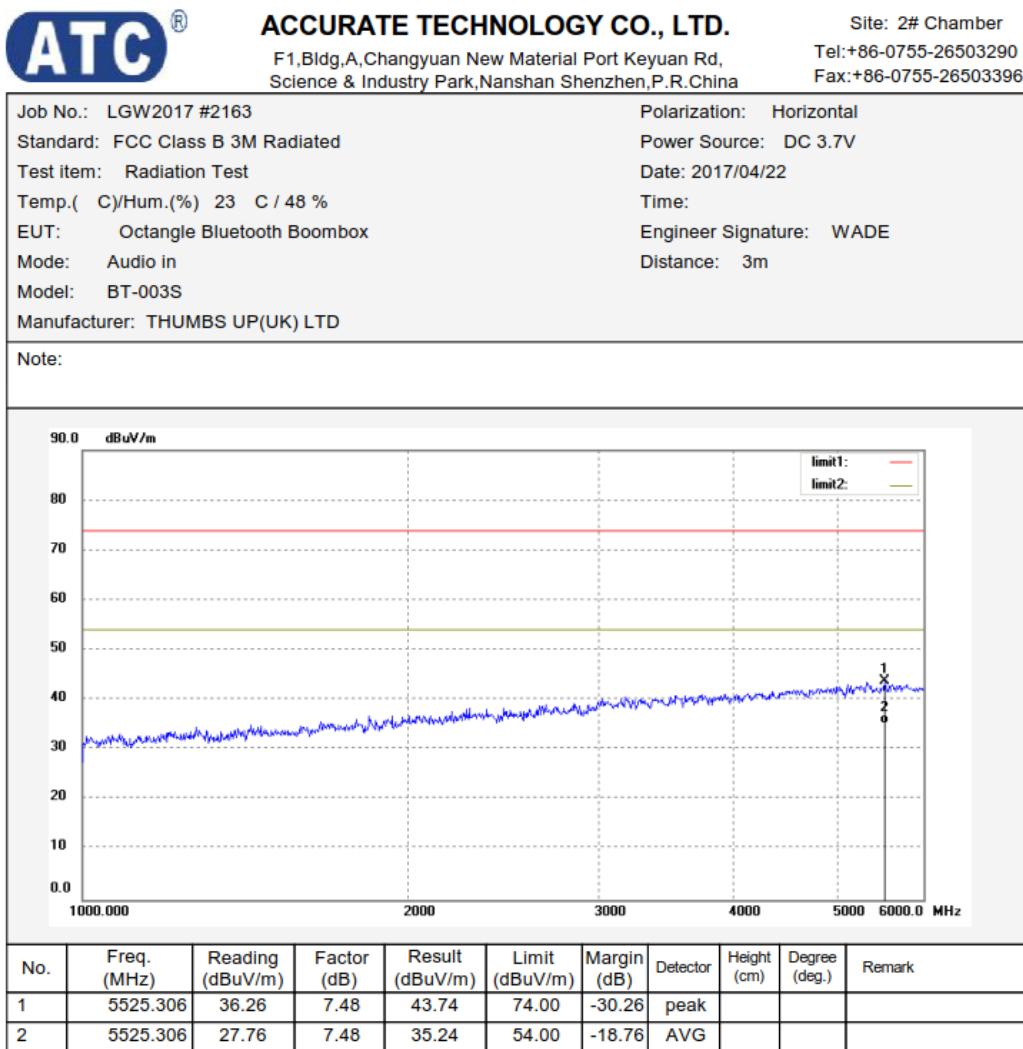


Figure 29: Test figure of Radiated emissions, Mode C, Above 1GHz, Vertical

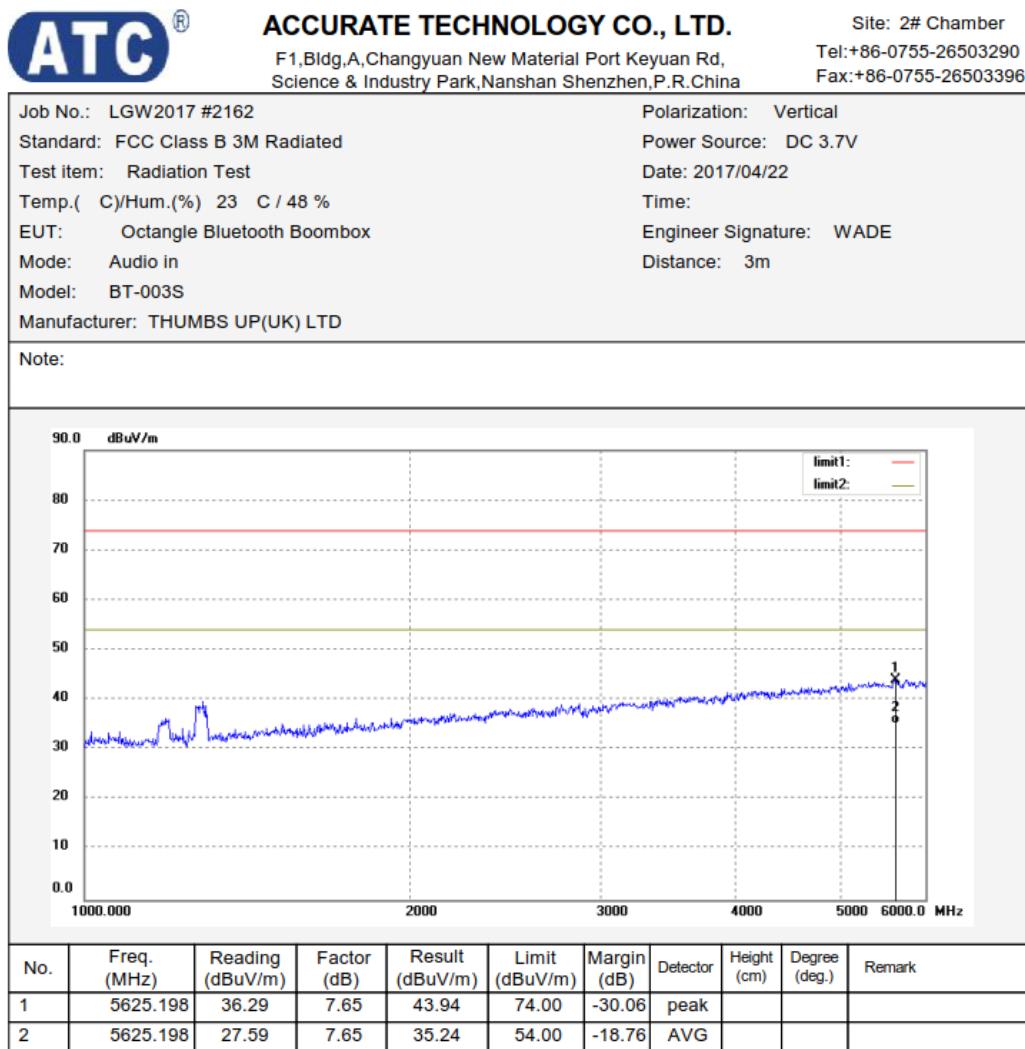


Figure 30: Test figure of Radiated emissions, Mode D, Below 1GHz, Horizontal

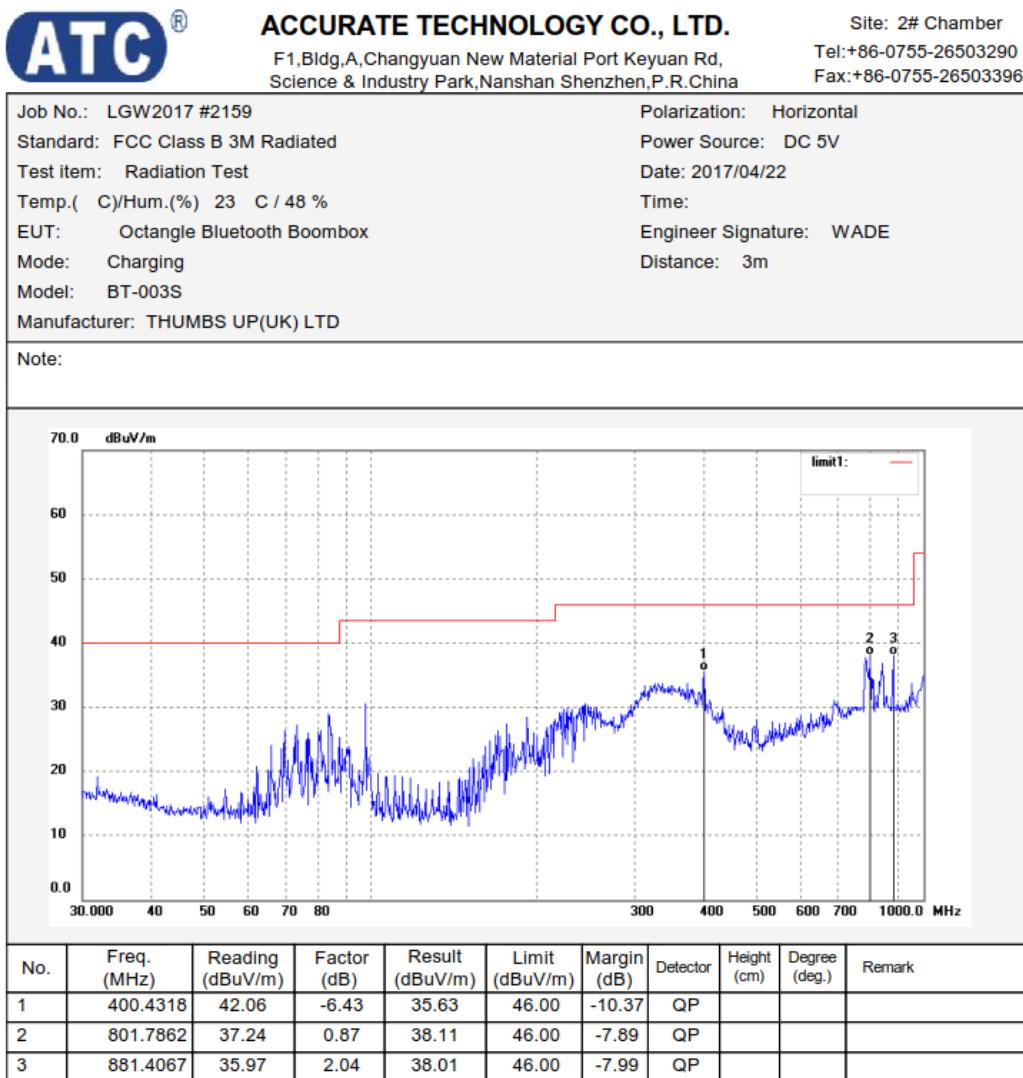


Figure 31: Test figure of Radiated emissions, Mode D, Below 1GHz, Vertical



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Fax:+86-0755-26503396

| | |
|-----------------------------------|--------------------------|
| Job No.: LGW2017 #2158 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: DC 5V |
| Test item: Radiation Test | Date: 2017/04/22 |
| Temp.(C)/Hum.(%) 23 C / 48 % | Time: |
| EUT: Octangle Bluetooth Boombox | Engineer Signature: WADE |
| Mode: Charging | Distance: 3m |
| Model: BT-003S | |
| Manufacturer: THUMBS UP(UK) LTD | |
| Note: | |

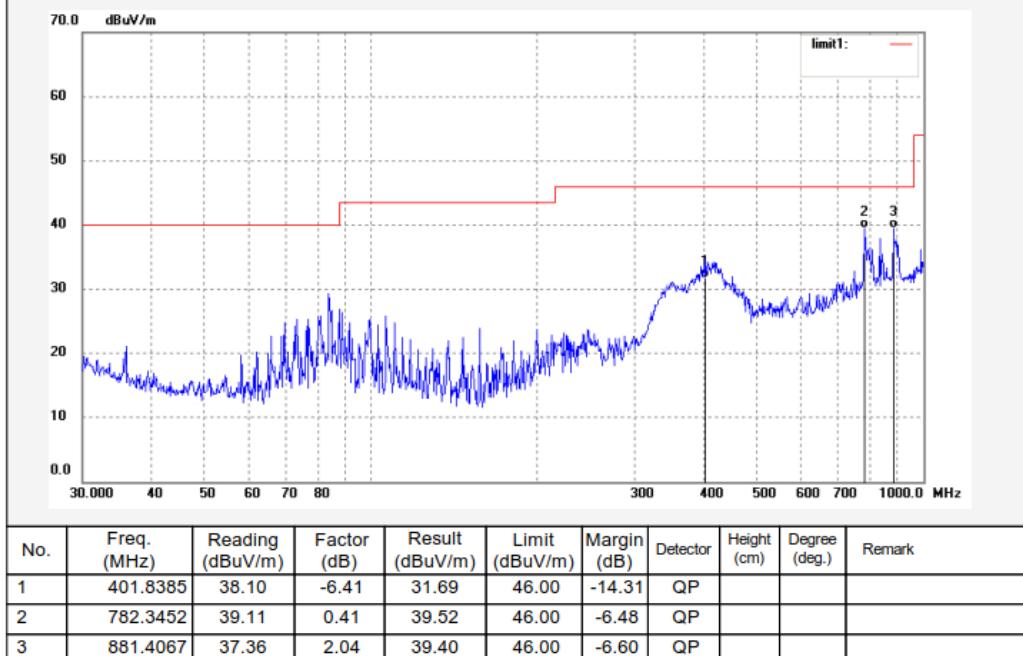


Figure 32: Test figure of Radiated emissions, Mode D, Above 1GHz, Horizontal

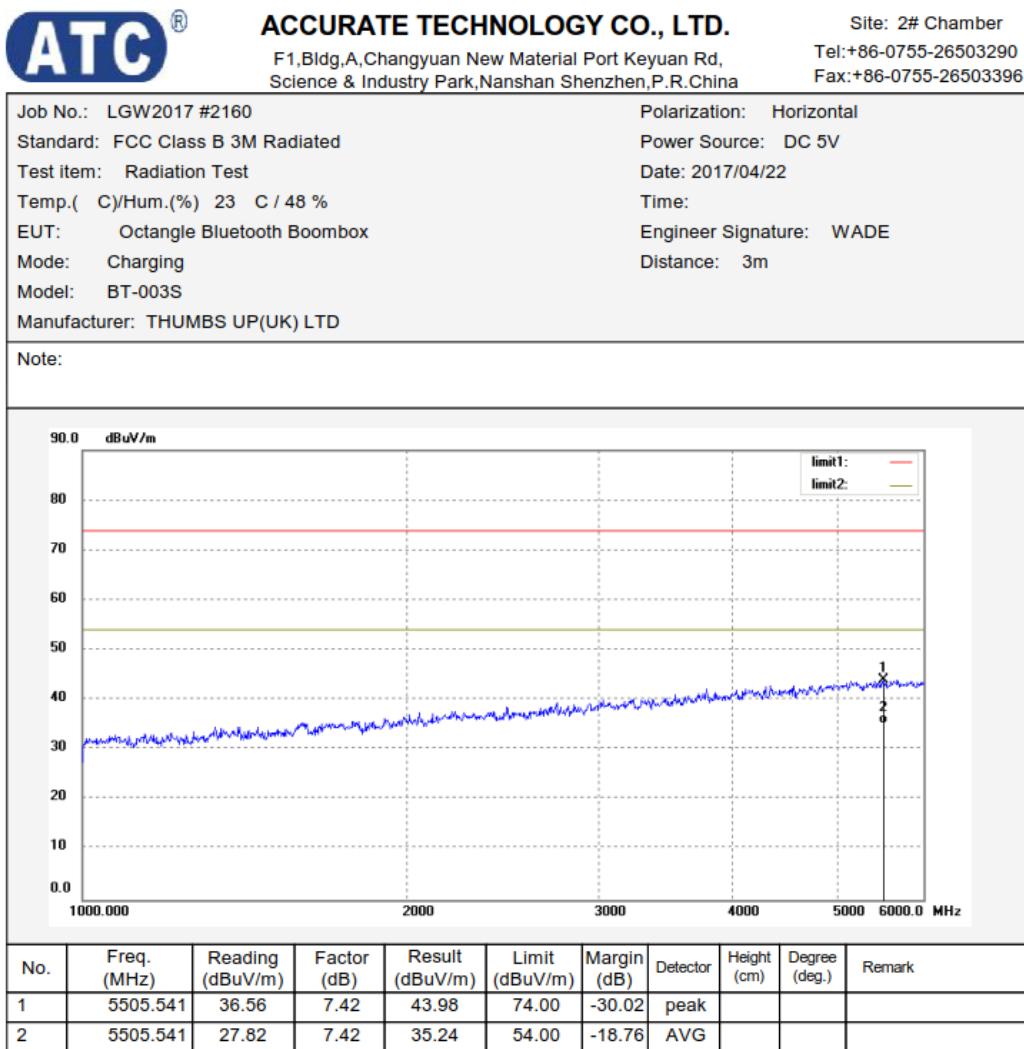


Figure 33: Test figure of Radiated emissions, Mode D, Above 1GHz, Vertical

