

FCC RF Test Report

(Bluetooth)

Applicant: Shenzhen DOOGEE Hengtong Technology CO., LTD

Address of Applicant: B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park,
No. 22, Dafu Industrial Zone, Guanlan Aobei Community,
Guanlan Street, Longhua New District, Shenzhen, Guangdong
China

Product Name: Bone Conduction Sport Headphones

Model No.: BC07 (More models are listed in Section 2.2)

Brand Name: DOOGEE

FCC ID: 2AX4YBC02

Test Standards: FCC CFR Title 47 Part 15C (§15.247)

Date of Sample Receipt: Apr. 22, 2026

Date of Test: Apr. 23 to May 20, 2026

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Prepared By:

Shenzhen Acote Technology Co., Ltd.

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Report Revision History

Rev.	Issue Date	Description
V00	May 21, 2026	Initial Release



Table of Contents

Cover Page	1
Report Revision History	2
Table of Contents	3
1 Laboratory Introduction	4
1.1 Laboratory Location	4
1.2 Laboratory Facility	4
1.3 Announcement	4
1.4 Disclaimer	4
2 Equipment Under Test Information	5
2.1 Application Information	5
2.2 Product Information	5
2.3 EUT Technical Parameters	5
3 Test Information	6
3.1 Test Methodology	6
3.2 Test Result Summary	6
3.3 Environment of test site	6
3.4 Measurement Uncertainty	7
3.5 Description of Support Units	7
3.6 Additions to, Deviations, or Exclusions from the Method	7
3.7 Test Instruments List	8
4 Test Configuration of EUT	10
4.1 Channels Selected to Perform the Tests	10
4.2 Test Mode	10
4.3 Worst-case Configuration	10
4.4 Test Setup Block	11
5 Technical requirements specification	12
5.1 Antenna Requirement	12
5.2 AC Power Line Conducted Emission	13
5.3 20dB Occupied Bandwidth	16
5.4 Conducted Output Power	17
5.5 Carrier Frequencies Separation	18
5.6 Hopping Channel Number	19
5.7 Dwell Time	20
5.8 Band-edge Emission	21
5.9 Conduction Spurious Emission	22
5.10 Emissions in Restricted Frequency Bands	23
5.11 Emissions in Non-restricted Frequency Bands	36

1 Laboratory Introduction

1.1 Laboratory Location

Company Name:	Shenzhen Acote Technology Co., Ltd.
Address of Laboratory:	Room 719, Excellence Times Building, No. 27, Xinqiao 3rd Road, Xinqiao Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong Province, China.
	101, F1, building 15, zhongda 365, Xincheng Road No.9, Songshanhu, Dongguan, Guangdong, China.
Website:	www.acotelabs.com
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Tel.:	+86-0755-2788 9963

1.2 Laboratory Facility

Our company's laboratory facilities have received accreditation, certification, or authorization from the following organizations:

- **FCC - Designation No.: CN1450**
Shenzhen Acote Technology Co., Ltd. has been certified by the FCC (Federal Communications Commission) as a testing laboratory. Test Firm Registration Number: **832670**.
- **ISED - CAB Identifier: CN0202**
Shenzhen Acote Technology Co., Ltd. is registered with ISED (Innovation, Science and Economic Development Canada) as a Conformity Assessment Body (CAB) for radio equipment testing.
- **A2LA - Accreditation Number: 7697.01**
Shenzhen Acote Technology Co., Ltd. has been accredited by A2LA (American Association for Laboratory Accreditation) in compliance with the internationally recognized standard ISO/IEC 17025:2017, "General Requirements for the Competence of Testing and Calibration Laboratories."

1.3 Announcement

Shenzhen Acote Technology Co., Ltd. tested the equipment in accordance with the requirements set forth in the test standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by Shenzhen Acote Technology Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Shenzhen Acote Technology Co., Ltd. will constitute fraud and shall nullify the document.

1.4 Disclaimer

For the information or data provided by the client in this report, the relevant results or conclusions of this report are only made for these data or information. The testing laboratory is not responsible for the authenticity and accuracy of these data or information.

2 Equipment Under Test Information

2.1 Application Information

Applicant:	Shenzhen DOOGEE Hengtong Technology CO., LTD
Address of Applicant:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Dafu Industrial Zone, Guanlan Aobei Community, Guanlan Street, Longhua New District, Shenzhen, Guangdong China
Manufacturer:	Shenzhen DOOGEE Hengtong Technology CO., LTD
Address of Manufacturer:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Dafu Industrial Zone, Guanlan Aobei Community, Guanlan Street, Longhua New District, Shenzhen, Guangdong China
Factory:	DONGGUAN KEMI ELECTRONIC TECHNOLOGY CO., LTD
Address of Factory:	Room 201, Building 4, No.3 Shigu Taixing Road, Tangxia Town, Dongguan City, Guangdong Province, China

2.2 Product Information

Product Name:	Bone Conduction Sport Headphones
Model No.:	BC07
Models of Product Family:	BA01, BA02, BA03, BC03, BC04, BC05, BC06, BC08, BC02
Description of Model Differentiation:	This product series includes a total of 10 models. All models share an identical RF design, including the same RF chipset, RF circuit design, PCB layout, antenna type, antenna location, and antenna gain. The only difference is the model name.
Hardware Version:	V04
Software Version:	V01

2.3 EUT Technical Parameters

Operation Frequency:	2402 MHz ~ 2480 MHz
Modulation Technology:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	☒ GFSK ☒ $\pi/4$ -DQPSK ☒ 8DPSK
Data Speed:	☒ 1 Mbps ☒ 2 Mbps ☒ 3 Mbps
Channel Numbers:	79
Antenna Type:	Chip Antenna
Antenna Gain:	2.5 dBi (declared by applicant)
Power Supply:	Rechargeable Li-ion Battery 3.85Vdc, 190mAh
External Power Supply:	DC 5V
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3 Test Information

3.1 Test Methodology

The tests documented in this report were performed in accordance with:

- FCC CFR Title 47 Part 2
- FCC CFR Title 47 Part 15C (§15.247)
- ANSI C63.10:2020
- KDB 558074 D01 15.247 Meas Guidance v05r02

3.2 Test Result Summary

Report Section	Test Items	Standard Clause	Test Result
5.1	Antenna Requirement	§15.203 §15.247 (b)(4)	Pass
5.2	AC Power Line Conducted Emission	§15.207	Pass
5.3	20dB Occupied Bandwidth	§15.247 (a)(1)	Pass
5.4	Conducted Output Power	§15.247 (b)(1)	Pass
5.5	Carrier Frequencies Separation	§15.247 (a)(1)	Pass
5.6	Hopping Channel Number	§15.247 (a)(1)(iii)	Pass
5.7	Dwell Time	§15.247 (a)(1)(iii)	Pass
5.8	Band-edge Emission	§15.247 (d)	Pass
5.9	Conduction Spurious Emission	§15.247 (d)	Pass
5.10	Emissions in Restricted Frequency Bands	§15.205 §15.247 (d)	Pass
5.11	Emissions in Non-restricted Frequency Bands	§15.209 §15.247(d)	Pass
Remark: a) <i>Pass: The EUT complies with the essential requirements in the standard.</i> b) <i>N/A: Not applicable.</i> c) <i>The test cable insertion loss used for RF output power and other conducted measurements is provided by the applicant.</i>			

3.3 Environment of test site

Temperature:	15 ~ 35°C
Humidity:	20 ~ 75% RH
Atmospheric Pressure:	990 ~ 1010 mbar

3.4 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radio Frequency	$\pm 2 \times 10^{-8}$
RF Power, Conducted	± 0.66 dB
Spurious emission, Conducted	± 2.28 dB
Bandwidth, Conducted	$\pm 4\%$
Temperature	± 0.3 °C
Voltage	± 0.1 %
Humidity	± 2 %
Conducted Emission (9kHz ~ 150kHz)	± 3.02 dB
Conducted Emission (30MHz ~ 1000MHz)	± 2.52 dB
Radiated Emission (30MHz ~ 1000MHz) (3m SAC)	± 4.78 dB
Radiated Emission (1GHz ~ 6GHz) (3m SAC)	± 5.16 dB
Radiated Emission (6GHz ~ 18GHz) (3m SAC)	± 5.48 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	± 5.48 dB
Note: All the measurement uncertainty value were shown with a coverage $k=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.	

3.5 Description of Support Units

Description	Model	Manufacturer	Serial Number
Power Adapter	U700TSA	TECNO	KX07019243B13

3.6 Additions to, Deviations, or Exclusions from the Method

None

3.7 Test Instruments List

Radiated Emission(3m SAC)				
Test Equipment	Manufacturer	Model	Serial No.	Cal Due
3m SAC	YiHeng	9m*6m*6m	20250422	2028/05/28
EMI Test Receiver	Rohde & Schwarz	ESR7	101542	2026/08/31
TRILOG Broad Band Antenna (30MHz – 1000MHz)	Schwarzbeck	VULB 9168	9168-771	2026/09/08
6dB Attenuator	SRTechnology Corporate	N-ATTENUATOR(6dB)	311248	2026/08/31
Preamplifier (30MHz – 1000MHz)	TESTEK	TK-PA06S	190014-L	2026/08/31
Broadband Horn Antenna (1GHz – 18GHz)	Gwave Technology	GHA0118A-11	20251014010	2026/11/16
Preamplifier (1GHz – 18GHz)	Gwave Technology	GWLAN008018-50	20251014010	2026/10/23
Broadband Horn Antenna (18GHz – 40GHz)	Gwave Technology	GHA180400-292F-20	20251014010	2026/11/16
Preamplifier (18GHz – 40GHz)	Gwave Technology	GWLAN018040-45	20251014010	2026/10/23
RF Cable (9kHz – 18GHz)	REBES	SF104/10000MM	805225/4	2026/08/31
RF Cable (9kHz – 18GHz)	REBES	SF104/10000MM	805226/4	2026/08/31
RF Cable (18GHz – 40GHz)	MWRFTesT	UCA400-2.92M2092M-1.5M	004	2026/10/23
RF Cable (18GHz – 40GHz)	Gwave Technology	GAU3-292M292M-3000A1	20251021001-01-01	2026/10/23
RF Cable (18GHz – 40GHz)	Gwave Technology	GAU3-292M292M-600A1	20251021001-01-01	2026/10/23
High-pass filter (1GHz – 18GHz)	K&L MICROWAVE	11SH10-2000/U1800-O/O	350	2026/10/23
High-pass filter (3GHz – 18GHz)	UIY	UIYHPF3025A4T18SF	DL0019131	2026/10/23
High-pass filter (7GHz – 18GHz)	Narda	F4036A	1572	2026/10/23
Spectrum Analyzer	Rohde & Schwarz	FSP40	102129	2026/07/04
Test Software	Frad	EZ EMC	Version: EMEC-3A1	N/A

Conducted Emission				
Test Equipment	Manufacturer	Model	Serial No.	Cal Due
EMI Test Receiver	Rohde & Schwarz	ESR3	101763	2026/08/31
TWO-LINE V-NETWORK	Rohde & Schwarz	ENV216	101078	2026/08/31
RF Cable (9kHz – 30MHz)	REBES	WG4R-60-60-3	210305	2026/08/31
Test Software	Frad	EZ_EMC	Version: EMEC-3A1	N/A

RF Conducted Measurement				
Test Equipment	Manufacturer	Model	Serial No.	Cal Due
Spectrum Analyzer	Keysight	N9020A	MY56060179	2026/11/13
Vector Signal Generator	Agilent	N5182A	MY49060467	2026/11/13
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	123351	2026/11/13
Automatic control unit (including power sensor)	MWRFTTest	MW100-RFCB	MW250722AKT-59	2026/11/13
BT/WiFi automated testing software	MWRFTTest	MTS8310	Version: 2.0.0.0	N/A

4 Test Configuration of EUT

4.1 Channels Selected to Perform the Tests

Channels	Channel No.	Frequency (MHz)
Lowest	0	2402
Middle	39	2441
Highest	78	2480

4.2 Test Mode

TM 1:	Keep the EUT in continuously transmitting mode
TM 2:	Keep the EUT in hopping mode

4.3 Worst-case Configuration

The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. The details are as follows:

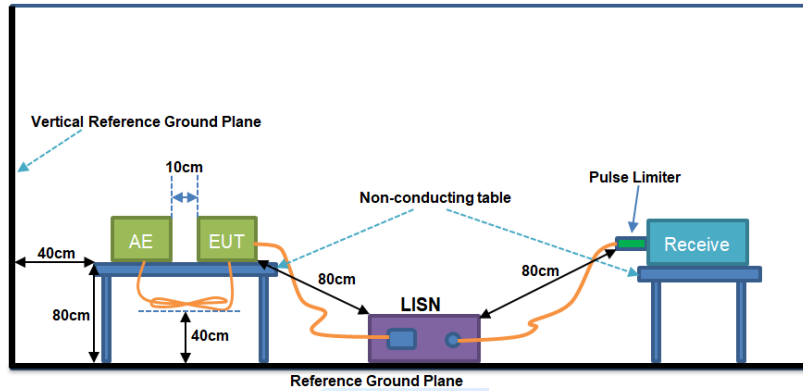
Report Section	Test Channel	Test Mode	Modulation Type
5.2 Note 2)	/	TM 1	1-DH5, 2-DH5, 3-DH5
5.3	L, M, H	TM 1	
5.4	L, M, H	TM 1	
5.5	Hopping	TM 2	
5.6	Hopping	TM 2	
5.7	Hopping	TM 2	1-DH1, 1-DH3, 1-DH5 2-DH1, 2-DH3, 2-DH5 3-DH1, 3-DH3, 3-DH5
5.8	L, H	TM 1	1-DH5, 2-DH5, 3-DH5
	Hopping	TM 2	
5.9	L, M, H	TM 1	
5.10	L, H	TM 1	
5.11 Note 3), Note 4)	L, M, H	TM 1	

Note:

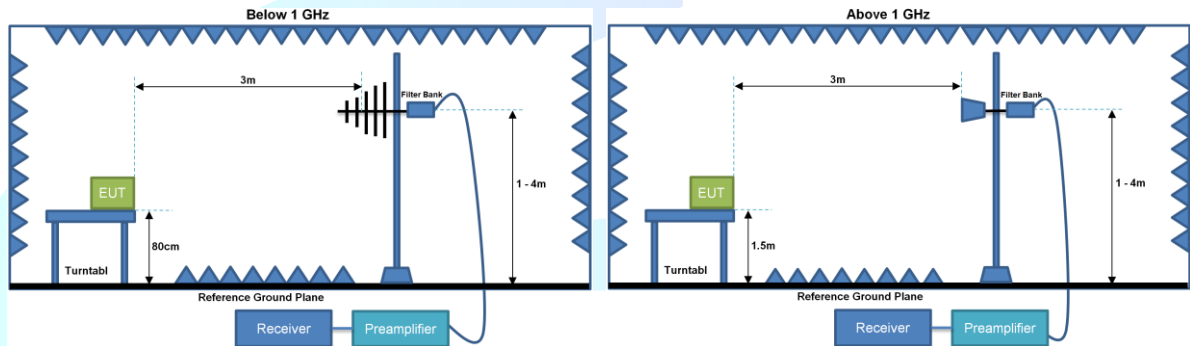
- 1) The EUT was investigated in three orthogonal orientations X, Y and Z, it was determined that Y was the worst-case of radiated field strength.
- 2) For Section 5.2, only the modulation type and the channel corresponding to the highest output power were tested.
- 3) For the 30 MHz to 1000 MHz range in Section 5.11, only the modulation type and the channel corresponding to the highest output power were tested.
- 4) For frequencies above 1 GHz in Section 5.11, measurements were performed up to the 10th harmonic of the fundamental frequency (or up to 40 GHz). Frequencies with emission levels at least 20 dB below the limit are not presented in the test report.

4.4 Test Setup Block

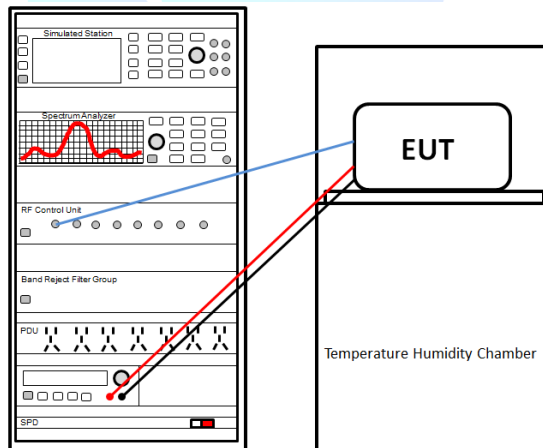
Setup 1 (Conducted Emission):



Setup 2 (Radiated Emission):



Setup 3 (MTS8310 Testing System):



5 Technical requirements specification

5.1 Antenna Requirement

5.1.1 Requirement

15.203 Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) Requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.1.2 Results

Pass.

The Bluetooth antenna is an chip antenna which permanently attached, and the best case gain of the antenna is 2.5 dBi. See product internal photos for details.

5.2 AC Power Line Conducted Emission

5.2.1 Limits

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}
0.5 – 5	56	46
5 – 30	60	50
Note 1: The limit level in dB μ V decreases linearly with the logarithm of frequency.		
Note 2: The more stringent limit applies at transition frequencies.		

5.2.2 Test Procedure

- The EUT was placed on a non-conductive table, 40 cm from the vertical ground plane and 80 cm from the horizontal ground plane. The EUT was arranged in accordance with ANSI C63.10.
- The EUT was configured to operate in TM 1 mode as specified in Section 4.2. The test channels and modulation types of the EUT are described in Section 4.3.
- The phase of the LISN was set to L1.
- Open the test software, load the conducted emission test script, or create a new conducted emission test script, and configure the test parameters, including the test frequency range, RBW = 9kHz, VBW = 30kHz, test standard, LISN, receiver, and other related settings.
- The test script was executed, the measurement was performed. Save the test data.
- The phase of the LISN was set to N, and steps d) and e) were repeated.

5.2.3 Test Setup

See setup 1 in section 4.4.

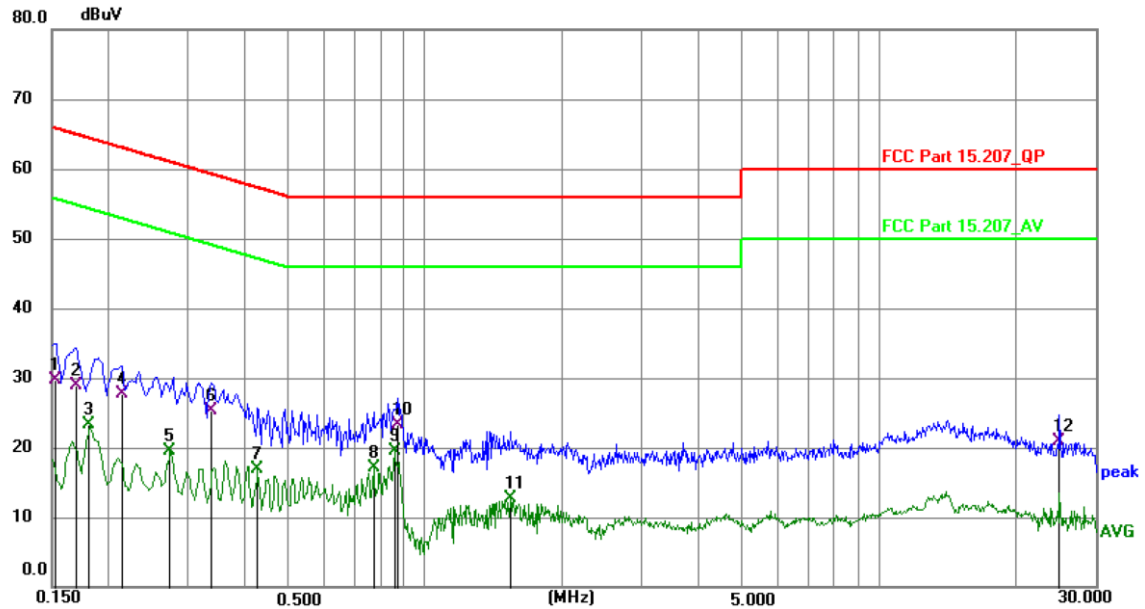
5.2.4 Test Instruments

Refer to section 3.7.

5.2.5 Test Results

Pass.

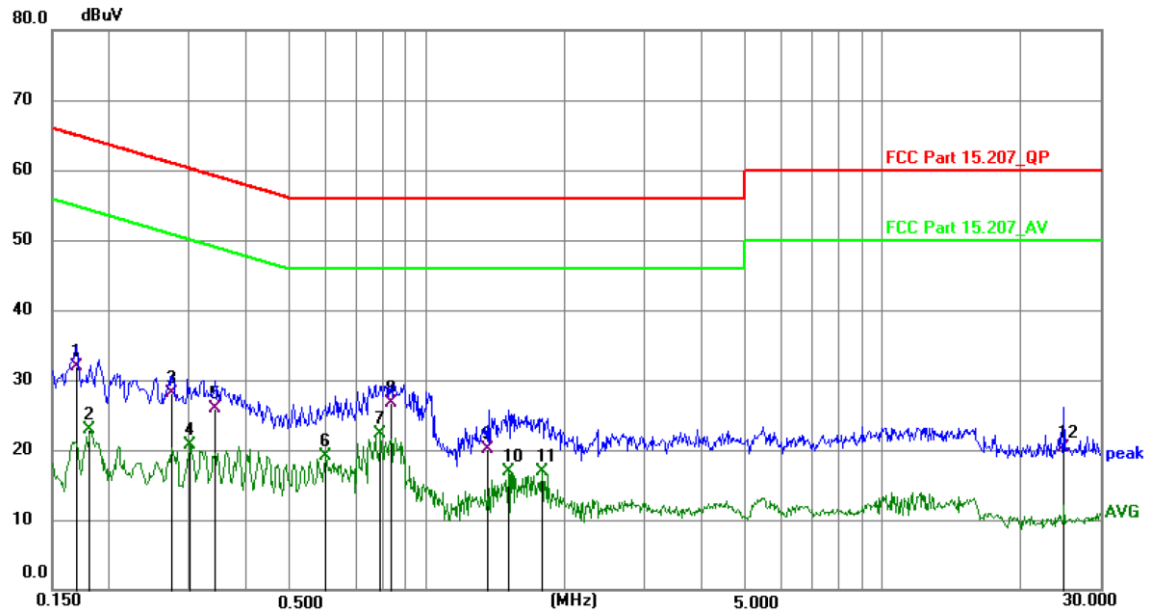
Product name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test by:	Albers Liu	Test mode:	TM 1
Test frequency:	150kHz ~ 30MHz	Phase:	Line
Test voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1539	20.11	9.69	29.80	65.79	-35.99	QP	P
2	0.1700	19.23	9.67	28.90	64.96	-36.06	QP	P
3	0.1819	13.61	9.66	23.27	54.40	-31.13	AVG	P
4	0.2140	17.98	9.65	27.63	63.05	-35.42	QP	P
5	0.2740	9.90	9.64	19.54	51.00	-31.46	AVG	P
6	0.3379	15.78	9.62	25.40	59.25	-33.85	QP	P
7	0.4260	7.35	9.61	16.96	47.33	-30.37	AVG	P
8	0.7700	7.59	9.59	17.18	46.00	-28.82	AVG	P
9 *	0.8540	9.91	9.59	19.50	46.00	-26.50	AVG	P
10	0.8700	13.74	9.59	23.33	56.00	-32.67	QP	P
11	1.5380	3.19	9.57	12.76	46.00	-33.24	AVG	P
12	25.0020	11.20	9.74	20.94	60.00	-39.06	QP	P

Remark: Level = Read level + LISN Factor + Cable Loss.

Product name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test by:	Albers Liu	Test mode:	TM 1
Test frequency:	150kHz ~ 30MHz	Phase:	Neutral
Test voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1700	22.14	9.67	31.81	64.96	-33.15	QP	P
2	0.1819	13.28	9.66	22.94	54.40	-31.46	AVG	P
3	0.2741	18.41	9.64	28.05	60.99	-32.94	QP	P
4	0.3002	11.16	9.64	20.80	50.24	-29.44	AVG	P
5	0.3420	16.34	9.62	25.96	59.15	-33.19	QP	P
6	0.5977	9.59	9.61	19.20	46.00	-26.80	AVG	P
7 *	0.7900	12.74	9.59	22.33	46.00	-23.67	AVG	P
8	0.8337	17.21	9.59	26.80	56.00	-29.20	QP	P
9	1.3619	10.45	9.57	20.02	56.00	-35.98	QP	P
10	1.5100	7.34	9.57	16.91	46.00	-29.09	AVG	P
11	1.7900	7.42	9.58	17.00	46.00	-29.00	AVG	P
12	25.0017	10.47	9.74	20.21	60.00	-39.79	QP	P

Remark: Level = Read level + LISN Factor + Cable Loss.

5.3 20dB Occupied Bandwidth

5.3.1 Limits

N/A. Within authorization band.

5.3.2 Test Procedure

- a) The EUT antenna port is connected to the RF port of the test system control unit via an RF cable.
- b) The EUT is set to operate in TM 1 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- c) Open the test software, load the BT test script, and select the test items and other relevant test parameters.
- d) The test script was executed, the measurement was performed.
- e) Save the test data.

5.3.3 Test Setup

See setup 3 in section 4.4.

5.3.4 Test Instruments

Refer to section 3.7.

5.3.5 Test Results

Pass.

The detailed test data see: Appendix – BT.

5.4 Conducted Output Power

5.4.1 Limits

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

5.4.2 Test Procedure

- a) The EUT antenna port is connected to the RF port of the test system control unit via an RF cable.
- b) The EUT is set to operate in TM 1 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- c) Open the test software, load the BT test script, and select the test items and other relevant test parameters.
- d) The test script was executed, the measurement was performed.
- e) Save the test data.

5.4.3 Test Setup

See setup 3 in section 4.4.

5.4.4 Test Instruments

Refer to section 3.7.

5.4.5 Test Results

Pass.

The detailed test data see: Appendix – BT.

5.5 Carrier Frequencies Separation

5.5.1 Limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

5.5.2 Test Procedure

- a) The EUT antenna port is connected to the RF port of the test system control unit via an RF cable.
- b) The EUT is set to operate in TM 2 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- c) Open the test software, load the BT test script, and select the test items and other relevant test parameters.
- d) The test script was executed, the measurement was performed.
- e) Save the test data.

5.5.3 Test Setup

See setup 3 in section 4.4.

5.5.4 Test Instruments

Refer to section 3.7.

5.5.5 Test Results

Pass.

The detailed test data see: Appendix – BT.

5.6 Hopping Channel Number

5.6.1 Limits

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

5.6.2 Test Procedure

- a) The EUT antenna port is connected to the RF port of the test system control unit via an RF cable.
- b) The EUT is set to operate in TM 2 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- c) Open the test software, load the BT test script, and select the test items and other relevant test parameters.
- d) The test script was executed, the measurement was performed.
- e) Save the test data.

5.6.3 Test Setup

See setup 3 in section 4.4.

5.6.4 Test Instruments

Refer to section 3.7.

5.6.5 Test Results

Pass.

The detailed test data see: Appendix – BT.

5.7 Dwell Time

5.7.1 Limits

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

5.7.2 Test Procedure

- a) The EUT antenna port is connected to the RF port of the test system control unit via an RF cable.
- b) The EUT is set to operate in TM 2 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- c) Open the test software, load the BT test script, and select the test items and other relevant test parameters.
- d) The test script was executed, the measurement was performed.
- e) Save the test data.

5.7.3 Test Setup

See setup 3 in section 4.4.

5.7.4 Test Instruments

Refer to section 3.7.

5.7.5 Test Results

Pass.

The detailed test data see: Appendix – BT.

5.8 Band-edge Emission

5.8.1 Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

5.8.2 Test Procedure

- The EUT antenna port is connected to the RF port of the test system control unit via an RF cable.
- The EUT is set to operate in TM 1 and TM 2 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- Open the test software, load the BT test script, and select the test items and other relevant test parameters.
- The test script was executed, the measurement was performed.
- Save the test data.

5.8.3 Test Setup

See setup 3 in section 4.4.

5.8.4 Test Instruments

Refer to section 3.7.

5.8.5 Test Results

Pass.

The detailed test data see: Appendix – BT.

5.9 Conduction Spurious Emission

5.9.1 Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

5.9.2 Test Procedure

- a) The EUT antenna port is connected to the RF port of the test system control unit via an RF cable.
- b) The EUT is set to operate in TM 1 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- c) Open the test software, load the BT test script, and select the test items and other relevant test parameters.
- d) The test script was executed, the measurement was performed.
- e) Save the test data.

5.9.3 Test Setup

See setup 3 in section 4.4.

5.9.4 Test Instruments

Refer to section 3.7.

5.9.5 Test Results

Pass.

The detailed test data see: Appendix – BT.

5.10 Emissions in Restricted Frequency Bands

5.10.1 Limits

Frequency (MHz)	Limits (dBμV/m) at 3m	Detector
30 - 88	40.0	Quasi-peak
88 - 216	43.5	Quasi-peak
216 - 960	46.0	Quasi-peak
960 - 1000	54.0	Quasi-peak
Note: The more stringent limits applies at transition frequencies.		
Frequency (MHz)	Limits (dBμV/m) at 3m	
	Average	Peake
Above 1GHz	54.0	74.

5.10.2 Test Procedure

- The EUT is placed on a non-conducting table of the 3m SAC turntable, 80 cm above the ground plane for measurement below 1GHz, 1.5 m above the ground plane for measurement above 1GHz. The measurement receiving antenna to EUT distance is 3 meters. The EUT was arranged in accordance with ANSI C63.10.
- The EUT is operated in TM 1 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- Open the test software, load the radiated emissions test script, or create a new radiated emissions test script, and configure the test parameters, including the test frequency range, RBW = 100kHz (for below 1GHz) or 1MHz (for above 1GHz), VBW = 300kHz (for below 1GHz) or 3MHz (for above 1GHz), test standard, test antenna, spectrum analyzer, and other related settings.
- The test script was executed, the measurement was performed.
- The turntable rotates 360 degrees, and the test antenna is raised and lowered within a range of 1 to 4 meters.
- Use the spectrum analyzer's Max Hold function to record the maximum test trace. For frequencies below 1 GHz, mark the maximum Quasi-peak value. For frequencies above 1 GHz, mark the maximum Peak and Average values. Save the test data.
- Both vertical and horizontal polarizations of the test antenna need to be tested.

5.10.3 Test Setup

See setup 2 in section 4.4.

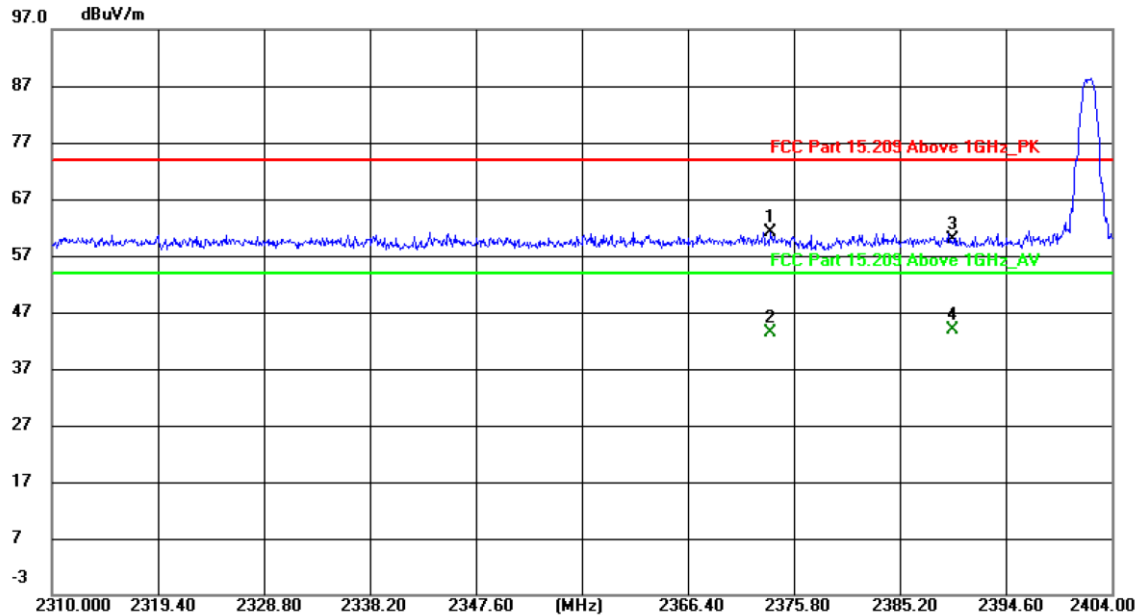
5.10.4 Test Instruments

Refer to section 3.7.

5.10.5 Test Results

Pass.

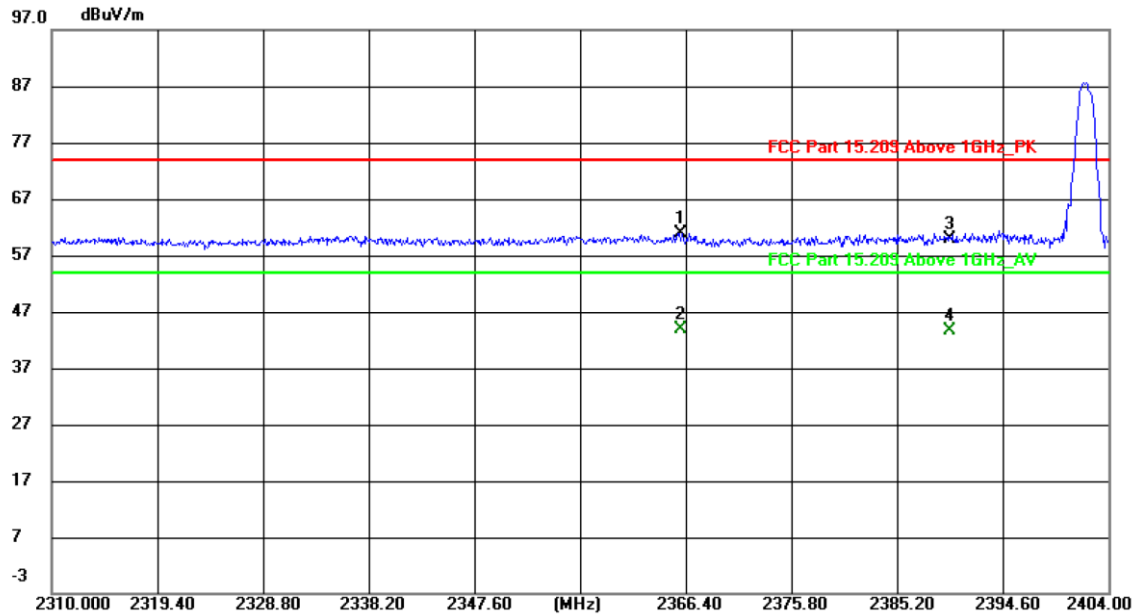
Product Name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test By:	Albers Liu	Test mode:	TM 1
Test Channel:	Lowest channel (1-DH5)	Polarization:	Vertical
Test Voltage:	DC 3.85V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2373.756	28.90	32.23	61.13	74.00	-12.87	peak	P
2	2373.756	11.25	32.23	43.48	54.00	-10.52	AVG	P
3	2390.000	27.64	32.26	59.90	74.00	-14.10	peak	P
4 *	2390.000	11.55	32.26	43.81	54.00	-10.19	AVG	P

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

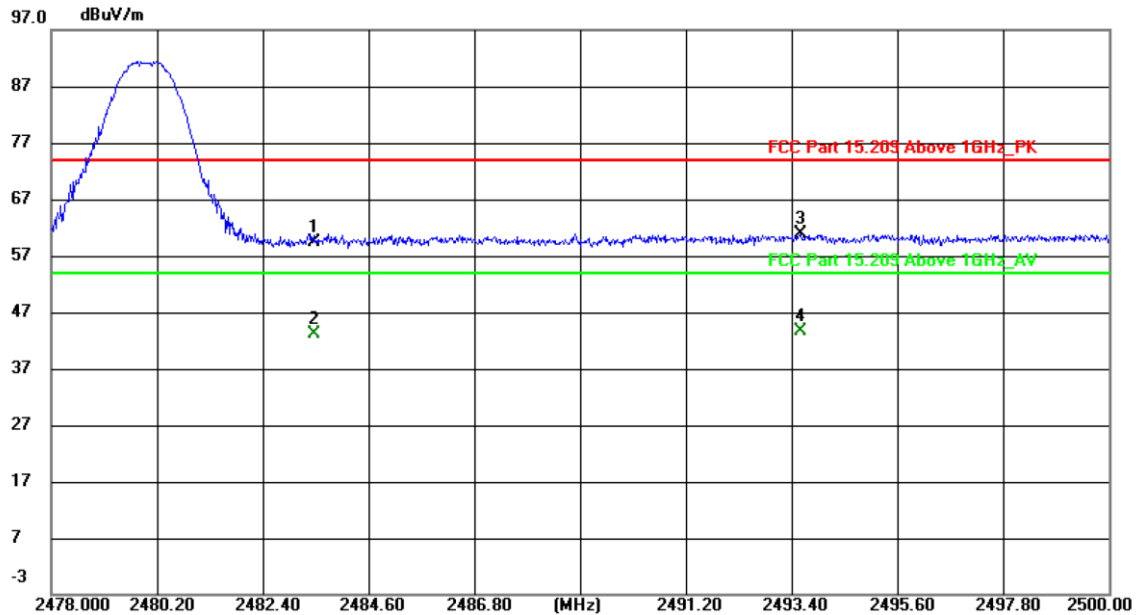
Product Name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test By:	Albers Liu	Test mode:	TM 1
Test Channel:	Lowest channel (1-DH5)	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2366.106	28.64	32.22	60.86	74.00	-13.14	peak	P
2 *	2366.106	11.56	32.22	43.78	54.00	-10.22	AVG	P
3	2390.000	27.67	32.26	59.93	74.00	-14.07	peak	P
4	2390.000	11.41	32.26	43.67	54.00	-10.33	AVG	P

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

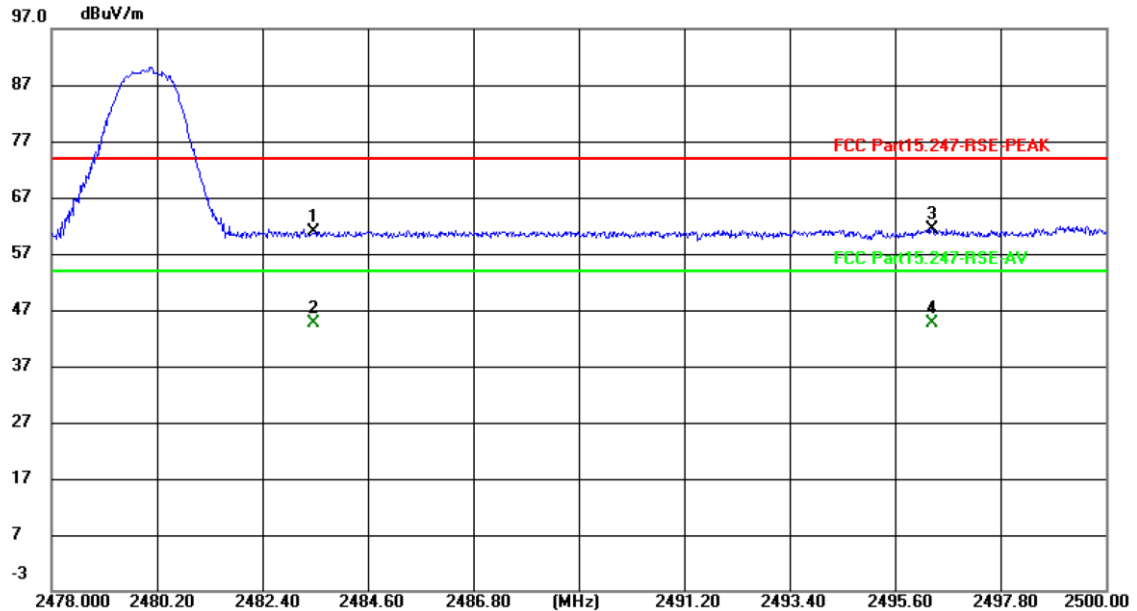
Product Name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test By:	Albers Liu	Test mode:	TM 1
Test Channel:	Highest channel (1-DH5)	Polarization:	Vertical
Test Voltage:	DC 3.85V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2483.500	26.86	32.44	59.30	74.00	-14.70	peak	P
2	2483.500	10.58	32.44	43.02	54.00	-10.98	AVG	P
3	2493.615	28.38	32.46	60.84	74.00	-13.16	peak	P
4 *	2493.615	11.14	32.46	43.60	54.00	-10.40	AVG	P

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

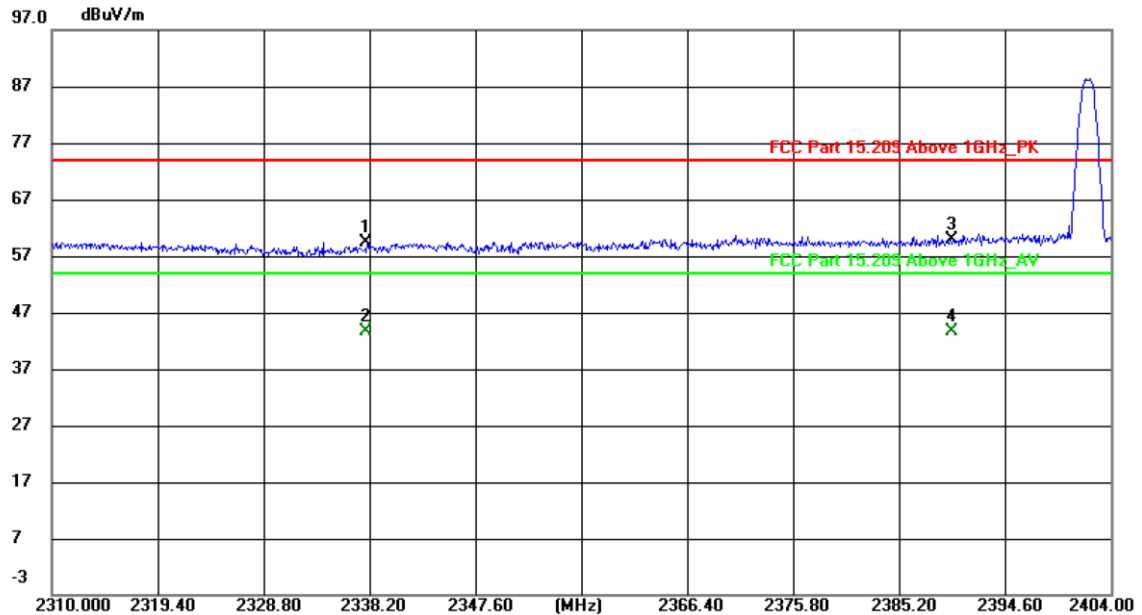
Product Name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test By:	Albers Liu	Test mode:	TM 1
Test Channel:	Highest channel (1-DH5)	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2483.500	28.32	32.44	60.76	74.00	-13.24	peak	P
2	2483.500	12.09	32.44	44.53	54.00	-9.47	AVG	P
3	2496.373	28.99	32.46	61.45	74.00	-12.55	peak	P
4 *	2496.373	12.16	32.46	44.62	54.00	-9.38	AVG	P

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

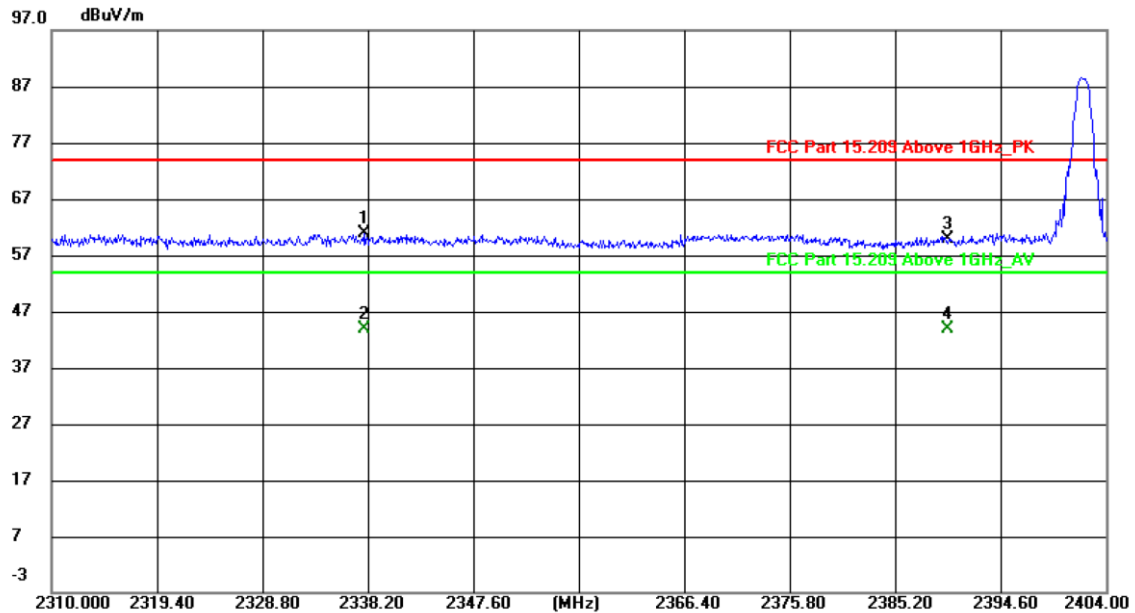
Product Name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test By:	Albers Liu	Test mode:	TM 1
Test Channel:	Lowest channel (2-DH5)	Polarization:	Vertical
Test Voltage:	DC 3.85V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2338.094	27.27	32.17	59.44	74.00	-14.56	peak	P
2	2338.094	11.35	32.17	43.52	54.00	-10.48	AVG	P
3	2390.000	27.60	32.26	59.86	74.00	-14.14	peak	P
4 *	2390.000	11.41	32.26	43.67	54.00	-10.33	AVG	P

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

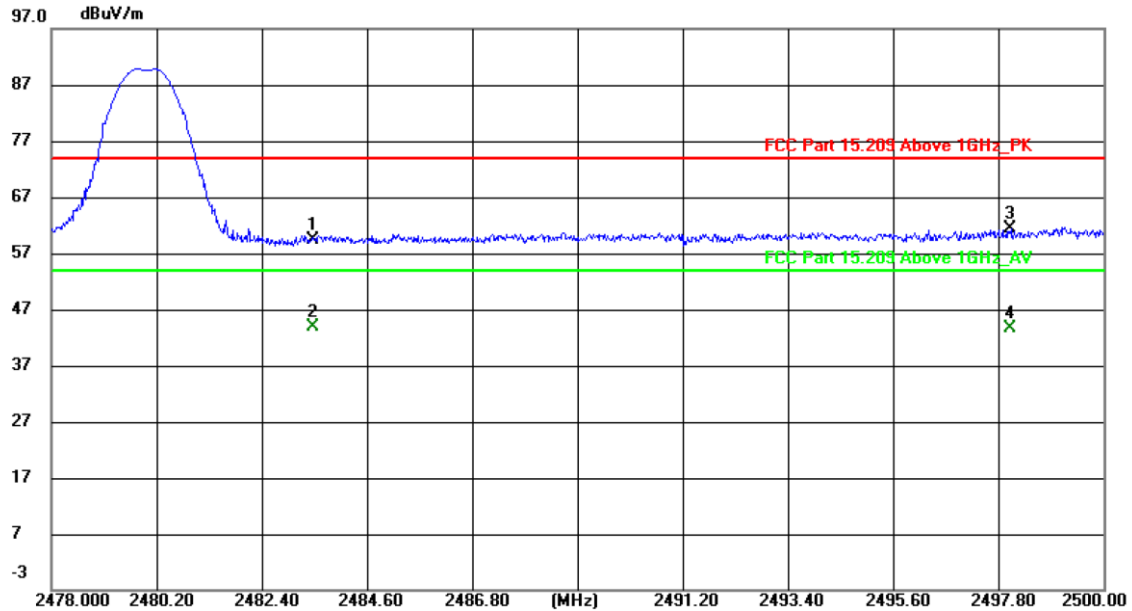
Product Name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test By:	Albers Liu	Test mode:	TM 1
Test Channel:	Lowest channel (2-DH5)	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2337.965	28.67	32.17	60.84	74.00	-13.16	peak	P
2 *	2337.965	11.83	32.17	44.00	54.00	-10.00	AVG	P
3	2390.000	27.53	32.26	59.79	74.00	-14.21	peak	P
4	2390.000	11.64	32.26	43.90	54.00	-10.10	AVG	P

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

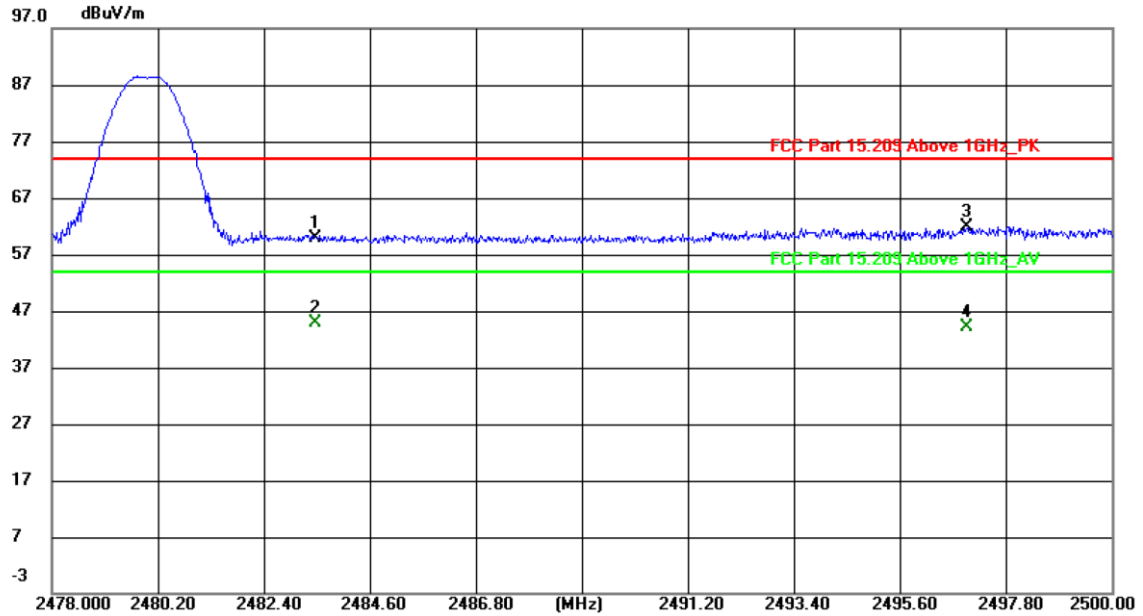
Product Name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test By:	Albers Liu	Test mode:	TM 1
Test Channel:	Highest channel (2-DH5)	Polarization:	Vertical
Test Voltage:	DC 3.85V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2483.500	26.95	32.44	59.39	74.00	-14.61	peak	P
2 *	2483.500	11.54	32.44	43.98	54.00	-10.02	AVG	P
3	2498.083	28.98	32.47	61.45	74.00	-12.55	peak	P
4	2498.083	11.23	32.47	43.70	54.00	-10.30	AVG	P

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

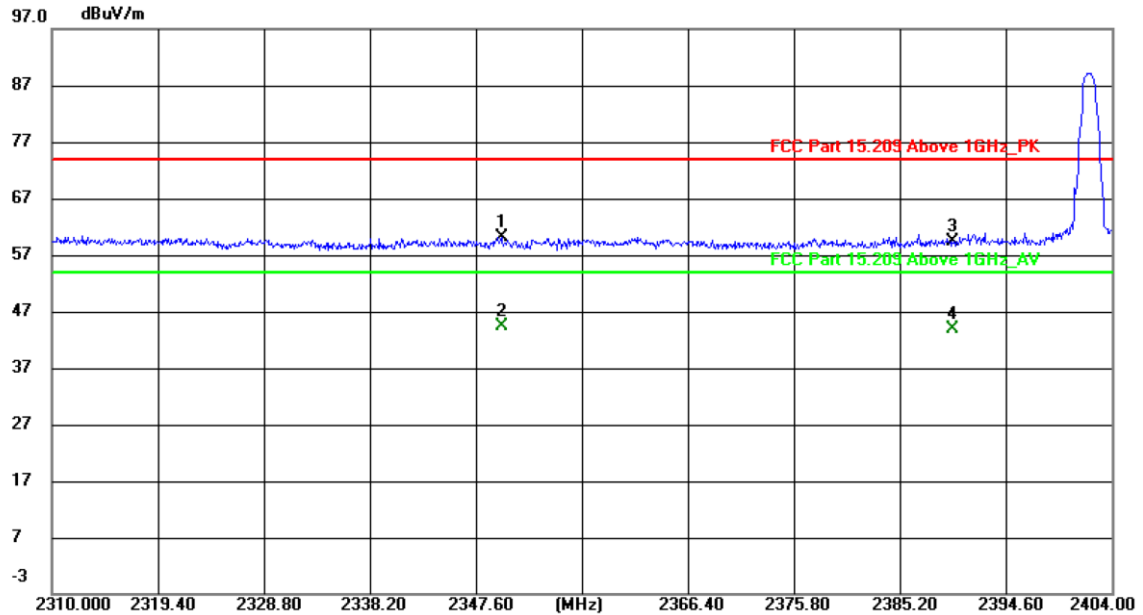
Product Name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test By:	Albers Liu	Test mode:	TM 1
Test Channel:	Highest channel (2-DH5)	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2483.500	27.36	32.44	59.80	74.00	-14.20	peak	P
2 *	2483.500	12.41	32.44	44.85	54.00	-9.15	AVG	P
3	2497.019	29.51	32.46	61.97	74.00	-12.03	peak	P
4	2497.019	11.69	32.46	44.15	54.00	-9.85	AVG	P

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

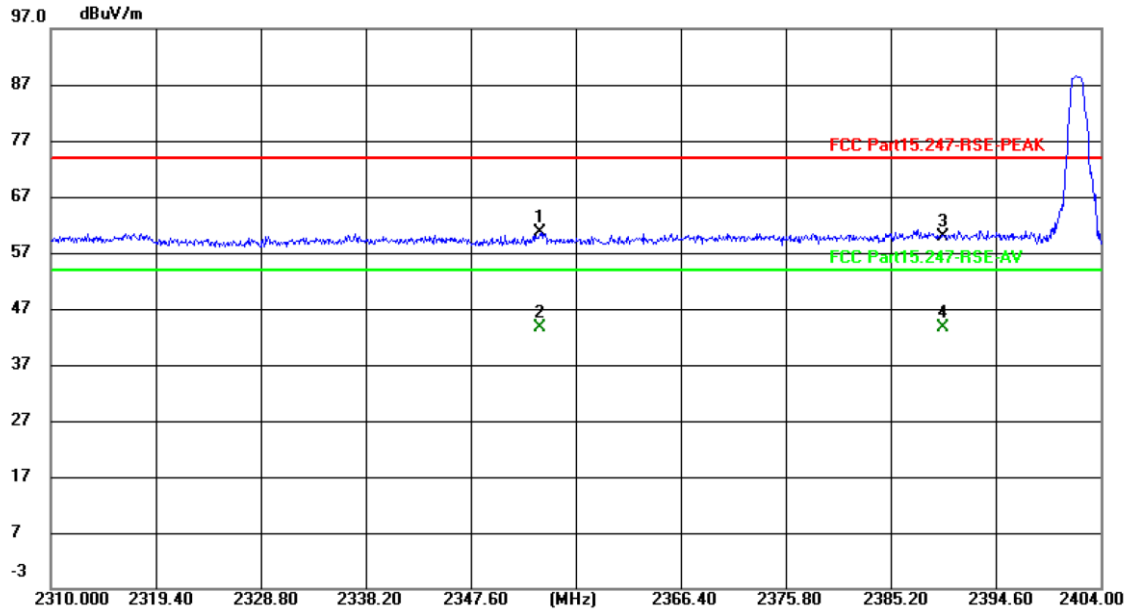
Product Name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test By:	Albers Liu	Test mode:	TM 1
Test Channel:	Lowest channel (3-DH5)	Polarization:	Vertical
Test Voltage:	DC 3.85V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2349.927	28.03	32.19	60.22	74.00	-13.78	peak	P
2 *	2349.927	12.10	32.19	44.29	54.00	-9.71	AVG	P
3	2390.000	27.12	32.26	59.38	74.00	-14.62	peak	P
4	2390.000	11.63	32.26	43.89	54.00	-10.11	AVG	P

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

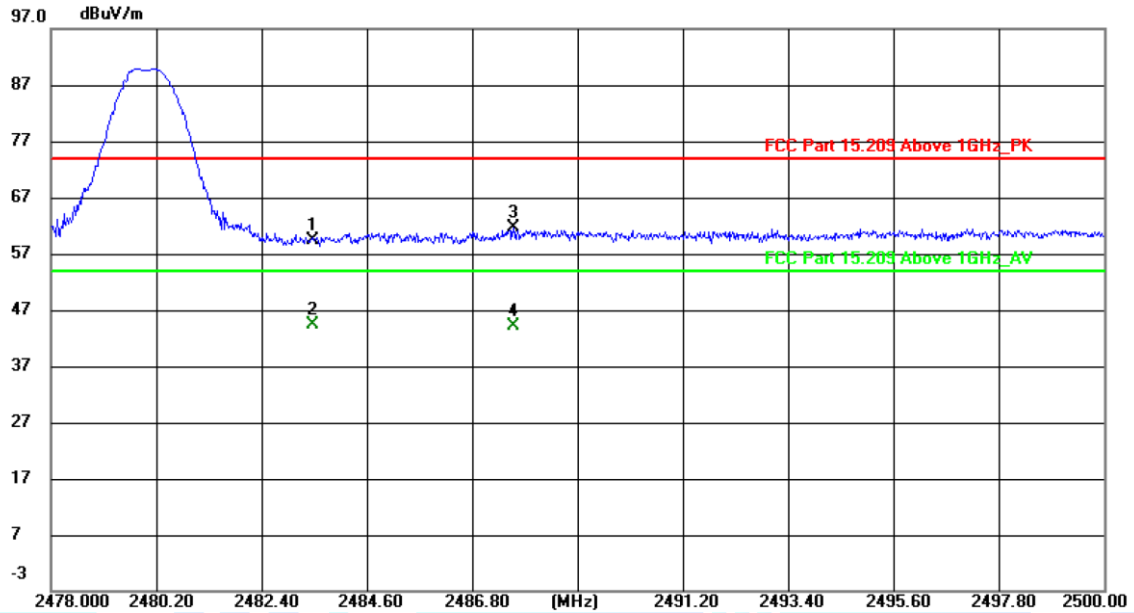
Product Name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test By:	Albers Liu	Test mode:	TM 1
Test Channel:	Lowest channel (3-DH5)	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2353.980	28.33	32.19	60.52	74.00	-13.48	peak	P
2 *	2353.980	11.50	32.19	43.69	54.00	-10.31	AVG	P
3	2390.000	27.56	32.26	59.82	74.00	-14.18	peak	P
4	2390.000	11.43	32.26	43.69	54.00	-10.31	AVG	P

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

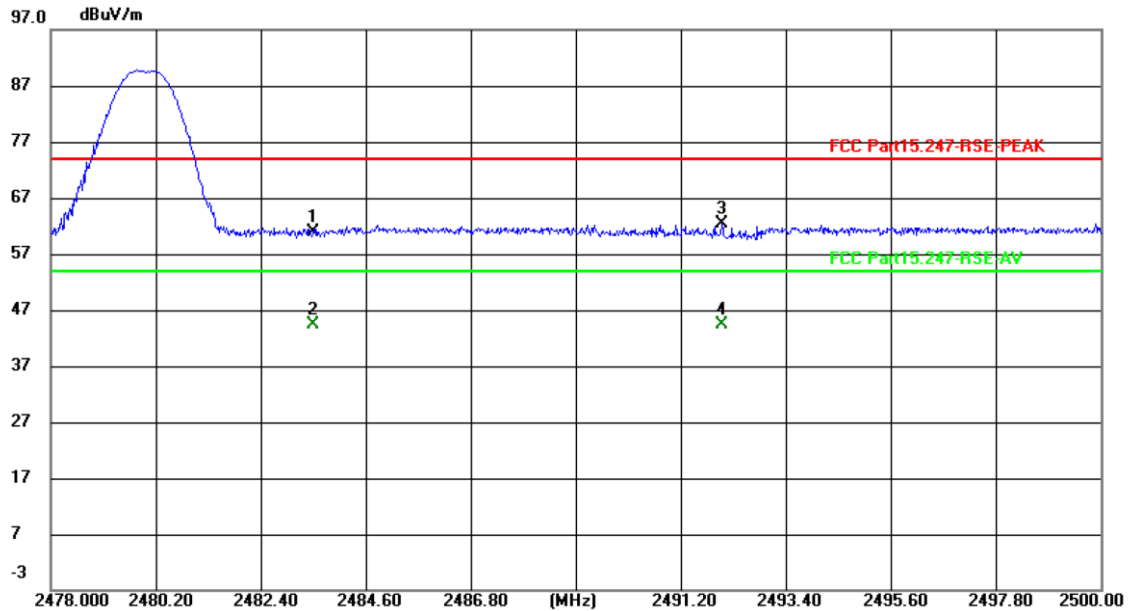
Product Name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test By:	Albers Liu	Test mode:	TM 1
Test Channel:	Highest channel (3-DH5)	Polarization:	Vertical
Test Voltage:	DC 3.85V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2483.500	27.04	32.44	59.48	74.00	-14.52	peak	P
2 *	2483.500	12.01	32.44	44.45	54.00	-9.55	AVG	P
3	2487.658	29.21	32.45	61.66	74.00	-12.34	peak	P
4	2487.658	11.66	32.45	44.11	54.00	-9.89	AVG	P

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test By:	Albers Liu	Test mode:	TM 1
Test Channel:	Highest channel (3-DH5)	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2483.500	28.36	32.44	60.80	74.00	-13.20	peak	P
2	2483.500	11.87	32.44	44.31	54.00	-9.69	AVG	P
3	2492.064	29.84	32.46	62.30	74.00	-11.70	peak	P
4 *	2492.064	11.89	32.46	44.35	54.00	-9.65	AVG	P

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

5.11 Emissions in Non-restricted Frequency Bands

5.11.1 Limits

Frequency (MHz)	Limits (dB μ V/m) at 3m	Detector
30 - 88	40.0	Quasi-peak
88 - 216	43.5	Quasi-peak
216 - 960	46.0	Quasi-peak
960 - 1000	54.0	Quasi-peak
Note: The more stringent limits applies at transition frequencies.		
Frequency (MHz)	Limits (dB μ V/m) at 3m	
	Average	Peake
Above 1GHz	54.0	74.

5.11.2 Test Procedure

- The EUT is placed on a non-conducting table of the 3m SAC turntable, 80 cm above the ground plane for measurement below 1GHz, 1.5 m above the ground plane for measurement above 1GHz. The measurement receiving antenna to EUT distance is 3 meters. The EUT was arranged in accordance with ANSI C63.10.
- The EUT is operated in TM 1 mode as described in Section 4.2. The EUT test channel and modulation type settings are described in Section 4.3.
- Open the test software, load the radiated emissions test script, or create a new radiated emissions test script, and configure the test parameters, including the test frequency range, RBW = 100kHz (for below 1GHz) or 1MHz (for above 1GHz), VBW = 300kHz (for below 1GHz) or 3MHz (for above 1GHz), test standard, test antenna, spectrum analyzer, and other related settings.
- The test script was executed, the measurement was performed.
- The turntable rotates 360 degrees, and the test antenna is raised and lowered within a range of 1 to 4 meters.
- Use the spectrum analyzer's Max Hold function to record the maximum test trace. For frequencies below 1 GHz, mark the maximum Quasi-peak value. For frequencies above 1 GHz, mark the maximum Peak and Average values. Save the test data.
- Both vertical and horizontal polarizations of the test antenna need to be tested.

5.11.3 Test Setup

See setup 2 in section 4.4.

5.11.4 Test Instruments

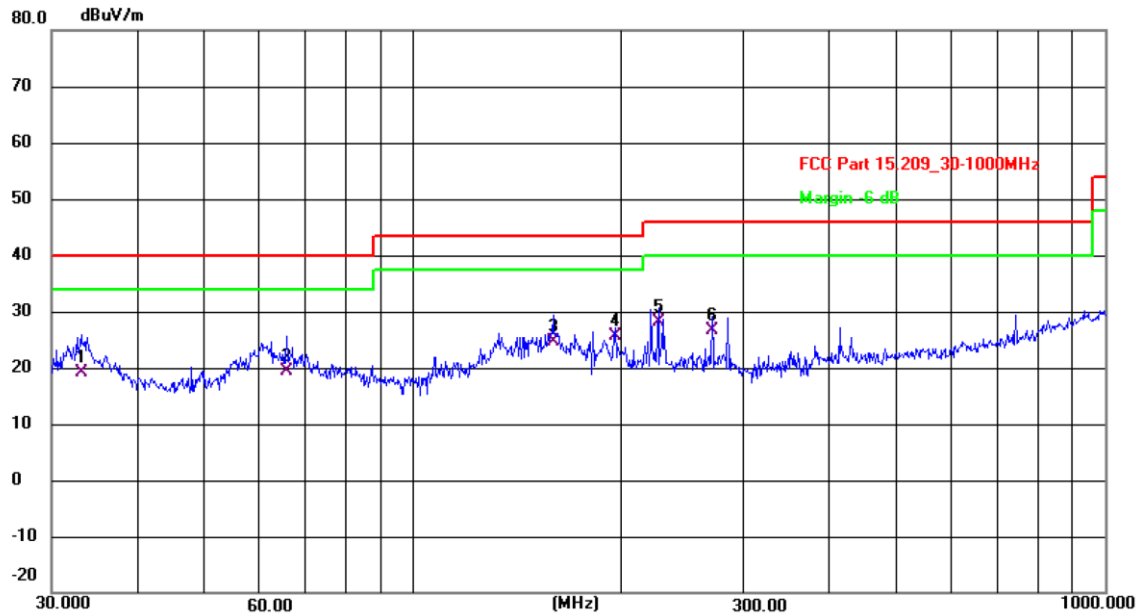
Refer to section 3.7.

5.11.5 Test Results

Pass.

1) Test Frequency Range: Below 1GHz

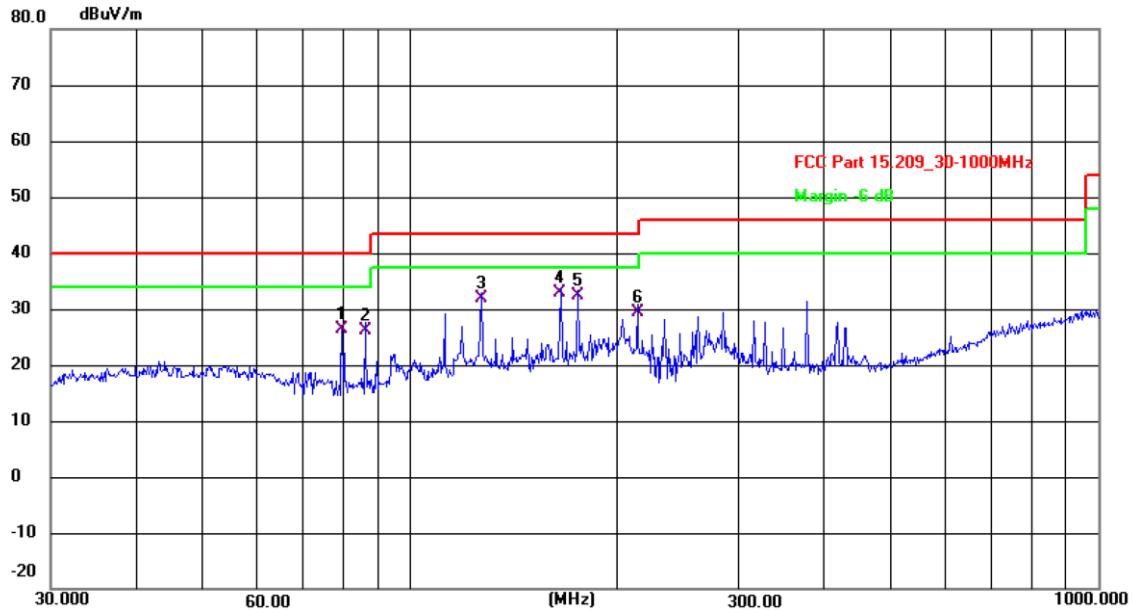
Product Name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test By:	Albers Liu	Test mode:	TM 1
Test Frequency:	30MHz ~ 1GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	33.0950	45.21	-25.96	19.25	40.00	-20.75	QP	P
2	65.5725	44.96	-25.54	19.42	40.00	-20.58	QP	P
3	159.2250	58.16	-33.46	24.70	43.50	-18.80	QP	P
4 *	195.8214	58.74	-33.19	25.55	43.50	-17.95	QP	P
5	226.0994	61.06	-33.01	28.05	46.00	-17.95	QP	P
6	270.3747	59.41	-32.72	26.69	46.00	-19.31	QP	P

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Bone Conduction Sport Headphones	Model No.:	BC07
Test By:	Albers Liu	Test mode:	TM 1
Test Frequency:	30MHz ~ 1GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	79.5207	51.86	-25.36	26.50	40.00	-13.50	QP	P
2	85.8983	60.12	-34.00	26.12	40.00	-13.88	QP	P
3	126.7723	65.49	-33.71	31.78	43.50	-11.72	QP	P
4 *	165.4866	66.41	-33.41	33.00	43.50	-10.50	QP	P
5	175.0363	65.77	-33.33	32.44	43.50	-11.06	QP	P
6	213.7632	62.39	-33.09	29.30	43.50	-14.20	QP	P

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

2) Test Frequency Range: Above 1GHz

Modulation Type: 1-DH5							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4804.00	65.41	-8.52	56.89	74.00	17.11	Peak	Vertical
	48.25	-8.52	39.73	54.00	14.27	Average	
	66.12	-8.52	57.60	74.00	16.40	Peak	Horizontal
	49.12	-8.52	40.60	54.00	13.40	Average	
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4882.00	65.98	-8.05	57.93	74.00	16.07	Peak	Vertical
	48.12	-8.05	40.07	54.00	13.93	Average	
	65.44	-8.05	57.39	74.00	16.61	Peak	Horizontal
	48.71	-8.05	40.66	54.00	13.34	Average	
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4960.00	66.23	-8.29	57.94	74.00	16.06	Peak	Vertical
	49.66	-8.29	41.37	54.00	12.63	Average	
	65.85	-8.29	57.56	74.00	16.44	Peak	Horizontal
	48.79	-8.29	40.50	54.00	13.50	Average	

Remark: Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

Modulation Type: 2-DH5							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4804.00	65.69	-8.52	57.17	74.00	16.83	Peak	Vertical
	48.74	-8.52	40.22	54.00	13.78	Average	
	65.92	-8.52	57.40	74.00	16.60	Peak	Horizontal
	48.71	-8.52	40.19	54.00	13.81	Average	
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4882.00	65.98	-8.05	57.93	74.00	16.07	Peak	Vertical
	48.79	-8.05	40.74	54.00	13.26	Average	
	66.28	-8.05	58.23	74.00	15.77	Peak	Horizontal
	48.99	-8.05	40.94	54.00	13.06	Average	
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4960.00	65.99	-8.29	57.70	74.00	16.30	Peak	Vertical
	48.76	-8.29	40.47	54.00	13.53	Average	
	66.62	-8.29	58.33	74.00	15.67	Peak	Horizontal
	48.97	-8.29	40.68	54.00	13.32	Average	

Modulation Type: 3-DH5							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4804.00	65.87	-8.52	57.35	74.00	16.65	Peak	Vertical
	48.75	-8.52	40.23	54.00	13.77	Average	
	66.39	-8.52	57.87	74.00	16.13	Peak	Horizontal
	48.80	-8.52	40.28	54.00	13.72	Average	
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4882.00	66.52	-8.05	58.47	74.00	15.53	Peak	Vertical
	48.98	-8.05	40.93	54.00	13.07	Average	
	65.84	-8.05	57.79	74.00	16.21	Peak	Horizontal
	48.92	-8.05	40.87	54.00	13.13	Average	
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Polarization
4960.00	66.65	-8.29	58.36	74.00	15.64	Peak	Vertical
	48.50	-8.29	40.21	54.00	13.79	Average	
	65.92	-8.29	57.63	74.00	16.37	Peak	Horizontal
	48.69	-8.29	40.40	54.00	13.60	Average	

----- End of Report -----