

FCC&IC TEST REPORT
for
AfterShokz LLC

Revvez Bone Conduction Sunglasses
Model No.: OS100

FCC ID: SHKASCEHB5

Prepared for : AfterShokz LLC
Address : 6057 Corporate Dr., East Syracuse, NY 13057

Prepared by : Shenzhen Accurate Technology Co., Ltd.
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Report No. : ATE20190506
Date of Test : April 1-April 4, 2019
Date of Report : April 10, 2019

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Test Report Certification

Applicant : AfterShokz LLC
Address : 6057 Corporate Dr., East Syracuse, NY 13057
Factory : SHENZHEN VOXTECH CO., LTD.
Address : 1/F&4F - 6F, Building 14#, Shangcheng Industrial Zone, Shixin community, Shiyan Street, Baoan District, Shenzhen City, Guangdong Province, P.R. China
Product : Revvez Bone Conduction Sunglasses
Model No. : OS100

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class B
ICES-003 Issue 6 Class B
ANSI C63.4: 2014

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B and ICES-003 limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

Date of Test : April 1-April 4, 2019
Date of Report : April 10, 2019

Prepared by :
(Stan Yang, Engineer)

Approved & Authorized Signer :
(Sean Liu, Manager)



1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
AC Power Line Conducted Emission	FCC Part 15 Subpart B ICES-003 Issue 6 Class B	Pass
Radiated Emission	FCC Part 15 Subpart B ICES-003 Issue 6 Class B	Pass

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product	:	Revvez Bone Conduction Sunglasses
Model No.	:	OS100
Highest Work Frequency	:	BT 2480MHz
Rating	:	INPUT: 5V $\overline{\text{---}}$ 140mA

2.2. Test mode description

Conducted Emission Test mode:	1. Charging
Radiated Emission Test mode:	1. Charging
	2. Bluetooth Playing

2.3. Accessory and Auxiliary Equipment

Notebook PC:	Manufacturer: Lenovo
	M/N: ThinkPad X240
	S/N: n.a
Iphone6S PLUS:	Manufacturer: Apple
	M/N: ML6D2 CH/A
	S/N: C35QJ76JGRWM

2.4. Description of Test Facility

EMC Lab	:	Recognition of accreditation by Federal Communications Commission (FCC) The Designation Number is CN1189 The Registration Number is 708358 Listed by Innovation, Science and Economic Development Canada (ISED) The Registration Number is 5077A-2 Accredited by China National Accreditation Service for Conformity Assessment (CNAS) The Registration Number is CNAS L3193 Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01
Name of Firm	:	Shenzhen Accurate Technology Co., Ltd.
Site Location	:	1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

2.5. Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1.The Equipment Used to Conducted Emission Test

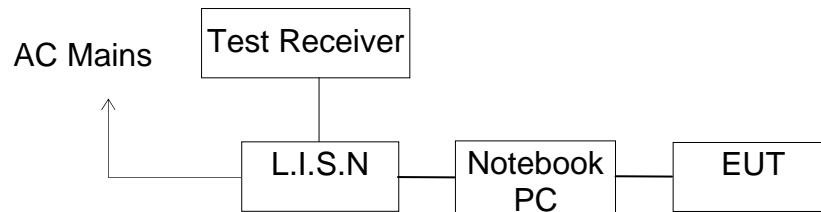
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan.05, 2019	1 Year
2.	L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan.05, 2019	1 Year
3.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100305	Jan.05, 2019	1 Year
4.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283936	Jan.05, 2019	1 Year
5.	RF Coaxial Cable	SUHNER	N-2m	No.2	Jan.05, 2019	1 Year
6.	Measurement Software: ES-K1 V1.71					

3.2.The Equipment Used to Radiated Emission Test

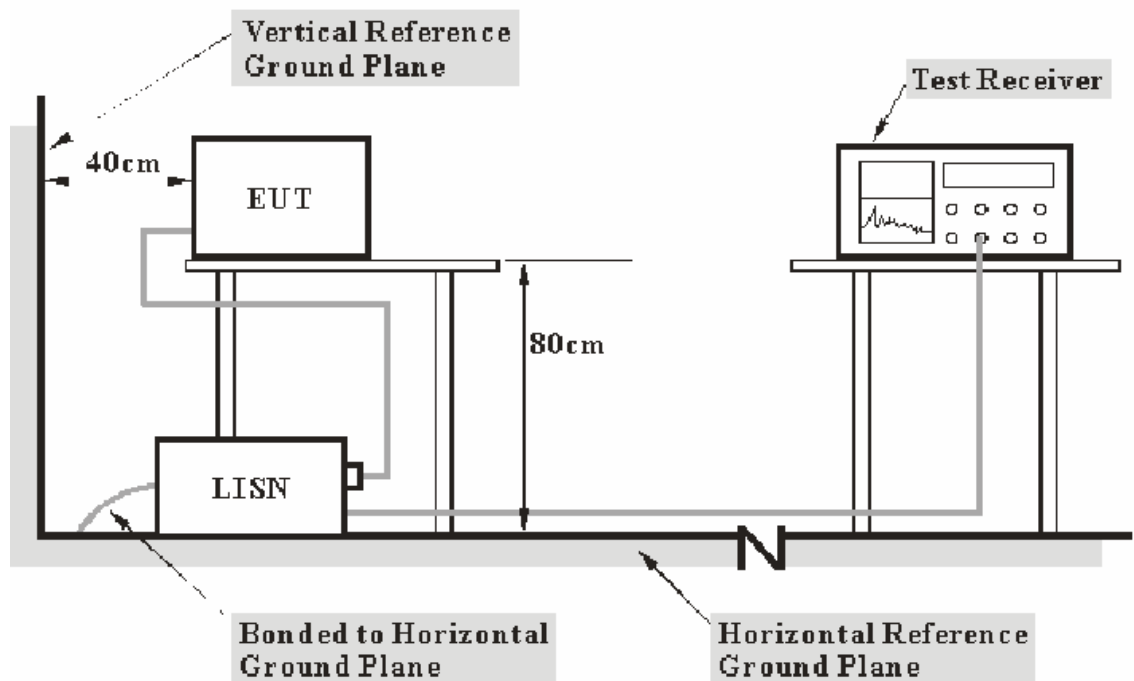
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	Jan.05, 2019	1 Year
2.	Test Receiver	Rohde& Schwarz	ESR	101817	Jan.05, 2019	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan.05, 2019	1 Year
4.	Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan.05, 2019	1 Year
5.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan.05, 2019	1 Year
6.	Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan.05, 2019	1 Year
7.	Pre-Amplifier	Compliance Direction	RSU-M2	38322	Jan.05, 2019	1 Year
8.	Pre-Amplifier	Agilent	8447D	294A10619	Jan.05, 2019	1 Year
9.	50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan.05, 2019	1 Year
10.	RF Coaxial Cable	RESENBERGER	N-12m	No.11	Jan.05, 2019	1 Year
11.	RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	Jan.05, 2019	1 Year
12.	RF Coaxial Cable	SUHNER	N-2m	No.13	Jan.05, 2019	1 Year
13.	RF Coaxial Cable	SUHNER	N-0.5m	No.15	Jan.05, 2019	1 Year
14.	RF Coaxial Cable	SUHNER	N-2m	No.16	Jan.05, 2019	1 Year
15.	RF Coaxial Cable	RESENBERGER	N-6m	No.17	Jan.05, 2019	1 Year
16.	Measurement Software: EZ_EMC V1.1.4.2					

4. AC POWER LINE CONDUCTED EMISSION TEST

4.1. Block Diagram of Test Setup



4.2. Test System Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

4.3.Test Limits (Class B)

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0
NOTE1: The lower limit shall apply at the transition frequencies.		
NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.		

4.4.Configuration of EUT on Test

The equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

4.5.Operating Condition of EUT

4.5.1.Setup the EUT and simulator as shown as Section 4.1.

4.5.2.Turn on the power of all equipment.

4.5.3.Let the EUT work in test mode and measure it.

4.6.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2014 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9kHz.

4.7.Data Sample

Frequency (MHz)	Transducer value (dB)	QuasiPeak Level (dB μ V)	Average Level (dB μ V)	QuasiPeak Limit (dB μ V)	Average Limit (dB μ V)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XX	10.6	25.3	17.0	59.0	49.0	33.7	32.0	Pass

Frequency(MHz) = Emission frequency in MHz

Transducer value(dB) = Insertion loss of LISN + Cable Loss

Level(dB μ V) = Quasi-peak Reading/Average Reading + Transducer value

Limit (dB μ V) = Limit stated in standard

Calculation Formula:

Margin = Limit (dB μ V) - Level (dB μ V)

4.8.Measurement Results

Pass.

The frequency range from 150kHz to 30MHz is checked.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

Emissions attenuated more than 20 dB below the permissible value are not reported.

All data was recorded in the Quasi-peak and average detection mode.

The spectral diagrams are attached as below.

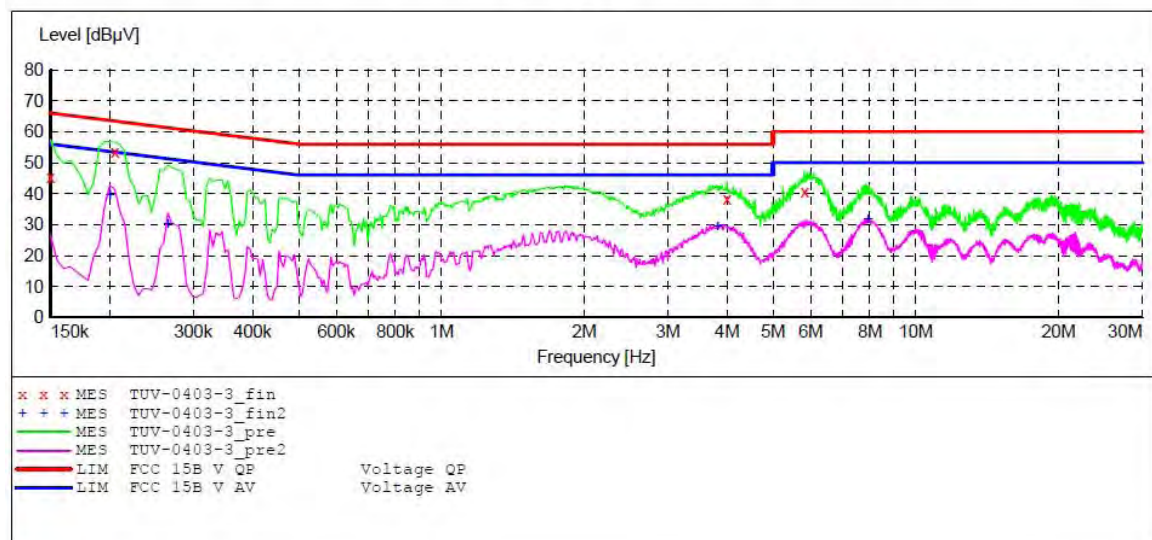
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Revvez Bone Conduction Sunglasses M/N:OS100
 Manufacturer: AfterShokz LLC
 Operating Condition: Charging
 Test Site: 1#Shielding Room
 Operator: WADE
 Test Specification: N 120V/60Hz
 Comment: Mains port
 Start of Test: 4/3/2019 /

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

Short Description: _SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time 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: "TUV-0403-3_fin"

4/3/2019

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	45.40	10.5	66	20.6	QP	N	GND
0.205000	53.40	10.5	63	10.0	QP	N	GND
4.000000	38.30	11.1	56	17.7	QP	N	GND
5.820000	40.50	11.2	60	19.5	QP	N	GND

MEASUREMENT RESULT: "TUV-0403-3_fin2"

4/3/2019

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.200000	39.50	10.5	54	14.1	AV	N	GND
0.265000	30.20	10.6	51	21.1	AV	N	GND
3.820000	29.50	11.1	46	16.5	AV	N	GND
7.930000	31.50	11.2	50	18.5	AV	N	GND

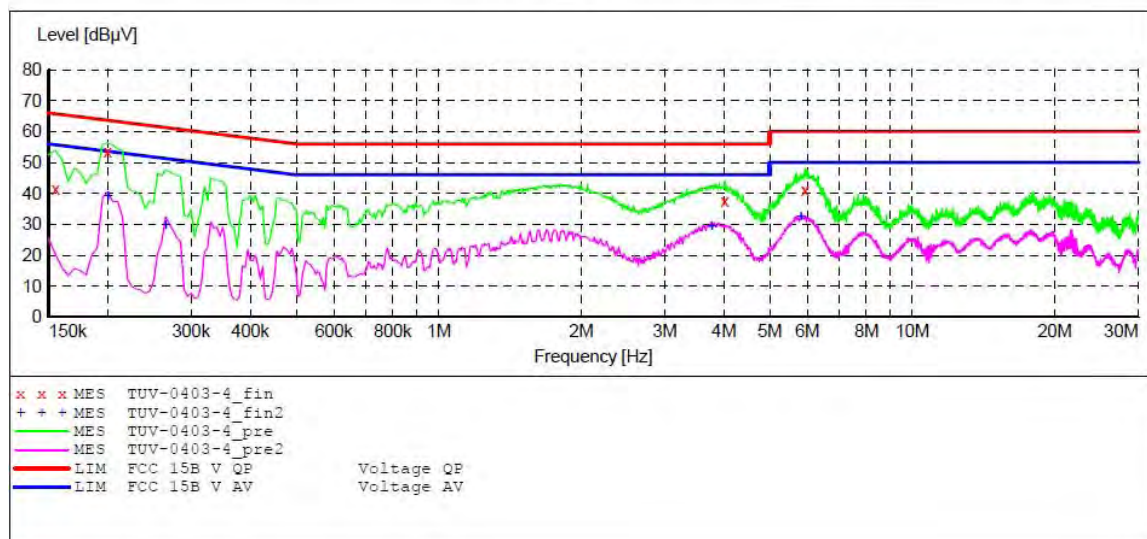
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Revvez Bone Conduction Sunglasses M/N:OS100
 Manufacturer: AfterShokz LLC
 Operating Condition: Charging
 Test Site: 1#Shielding Room
 Operator: WADE
 Test Specification: L 120V/60Hz
 Comment: Mains port
 Start of Test: 4/3/2019 /

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

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time 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: "TUV-0403-4_fin"

4/3/2019

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.155000	41.60	10.5	66	24.1	QP	L1	GND
0.200000	53.40	10.5	64	10.2	QP	L1	GND
4.020000	37.70	11.1	56	18.3	QP	L1	GND
5.940000	41.00	11.2	60	19.0	QP	L1	GND

MEASUREMENT RESULT: "TUV-0403-4_fin2"

4/3/2019

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.200000	39.20	10.5	54	14.4	AV	L1	GND
0.265000	29.80	10.6	51	21.5	AV	L1	GND
3.770000	29.50	11.1	46	16.5	AV	L1	GND
5.820000	32.40	11.2	50	17.6	AV	L1	GND

5. RADIATED EMISSION TEST

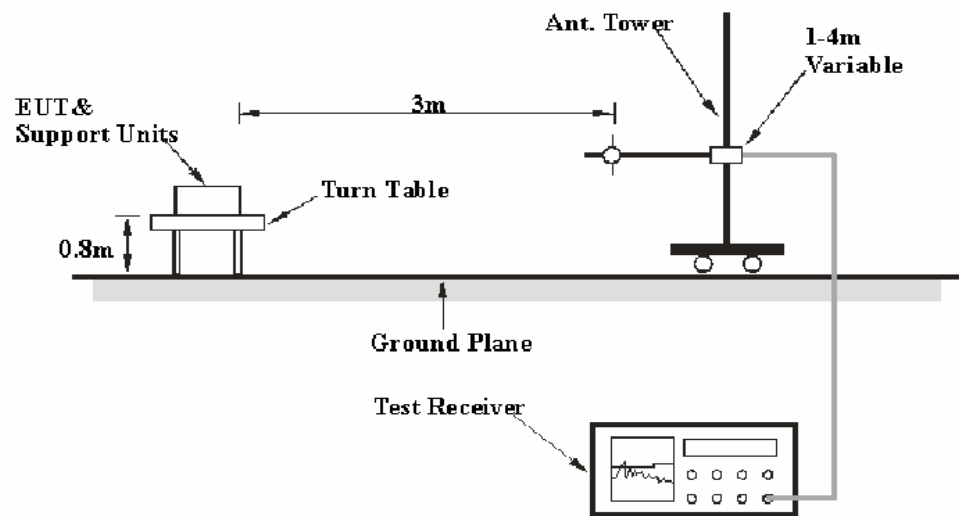
5.1. Block Diagram of Test

5.1.1. Block diagram of connection between the EUT and simulators

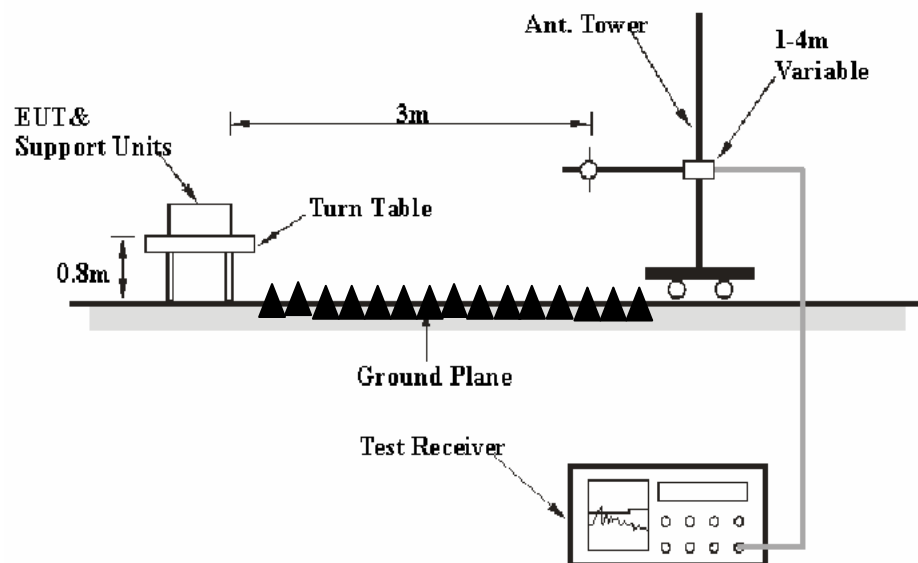


5.1.2. Block diagram of test setup (In chamber)

Radiated Emission Test Set-Up, Frequency 30MHz- 1GHz



Radiated Emission Test Set-Up, Frequency above 1GHz



5.2. Test Limit (Class B)

All emanations from a class B device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Frequency MHz	Distance Meters	Field Strengths Limit	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V/m})$
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0
Remark: (1) Emission level $\text{dB}(\mu\text{V}) = 20 \log$ Emission level $\mu\text{V/m}$. (2) The smaller limit shall apply at the cross point between two frequency bands. (3) Distance is the distance in meters between the measuring instrument antenna and the closest point of any part of the device or system.			

5.3. Configuration of EUT on Test

The equipments are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in test mode and measure it.

5.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2014 on radiated emission measurement.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.

Note: The EUT highest operating frequency provided by Manufacturer is 2480MHz, the radiated emission measurement shall be made up to 12.75GHz.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30.
1.705–108	1000.
108–500	2000.
500–1000	5000.
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

5.6.Data Sample

Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
X.XX	49.83	-22.03	27.80	43.50	-15.70	QP

Frequency(MHz) = Emission frequency in MHz

Reading(dB μ V) = Uncorrected Analyzer/Receiver reading

Factor (dB/m)= Antenna factor + Cable Loss – Amplifier gain

Result(dB μ V/m) = Reading + Factor

Limit (dB μ V/m)= Limit stated in standard

Margin (dB) = Result(dB μ V/m) - Limit (dB μ V/m)

Calculation Formula:

Margin(dB) = Result (dB μ V/m)–Limit(dB μ V/m)

Result(dB μ V/m)= Reading(dB μ V)+ Factor(dB/m)

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

5.7.Test Result

Pass.

The frequency range from 30MHz to 12.75GHz is investigated.

Emissions attenuated more than 20 dB below the permissible value are not reported.

The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.

The spectral diagrams are attached as below.

Job No.: LGW2019 #814

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Revvez Bone Conduction Sunglasses

Mode: Charging

Model: OS100

Manufacturer: AfterShokz LLC

Polarization: Horizontal

Power Source: DC 5V

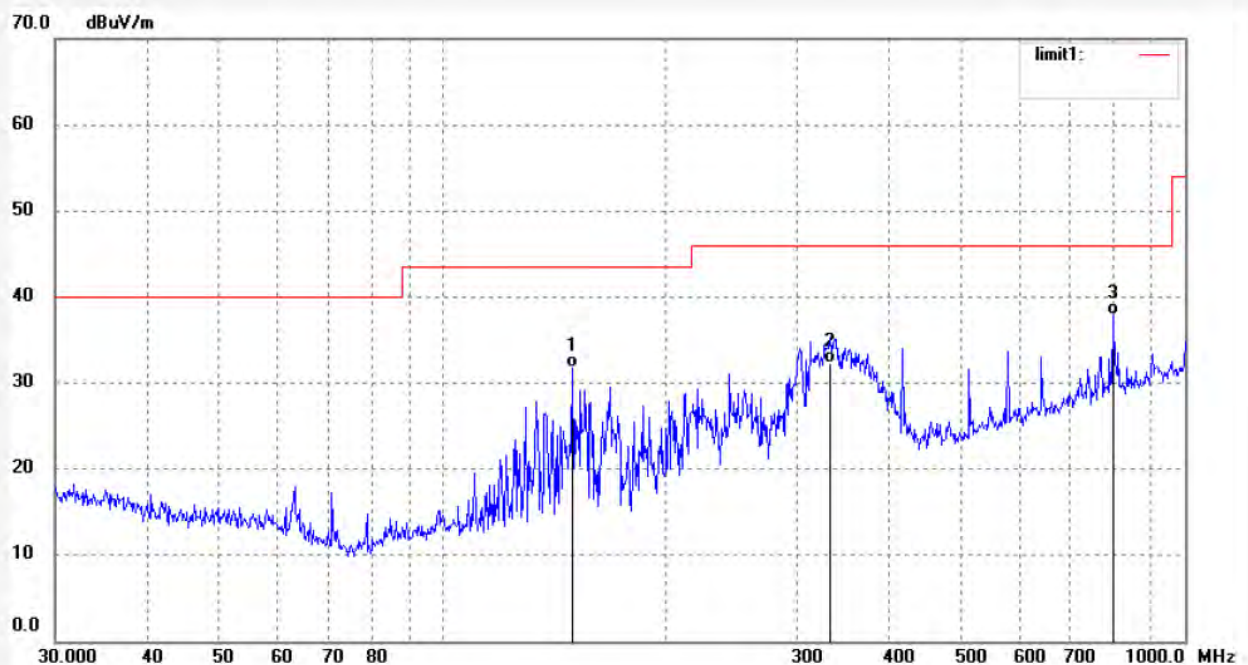
Date: 19/04/01/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	149.4857	46.84	-15.05	31.79	43.50	-11.71	QP			
2	332.5187	40.25	-7.99	32.26	46.00	-13.74	QP			
3	798.9796	37.01	0.81	37.82	46.00	-8.18	QP			

Job No.: LGW2019 #813

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Revvez Bone Conduction Sunglasses

Mode: Charging

Model: OS100

Manufacturer: AfterShokz LLC

Polarization: Vertical

Power Source: DC 5V

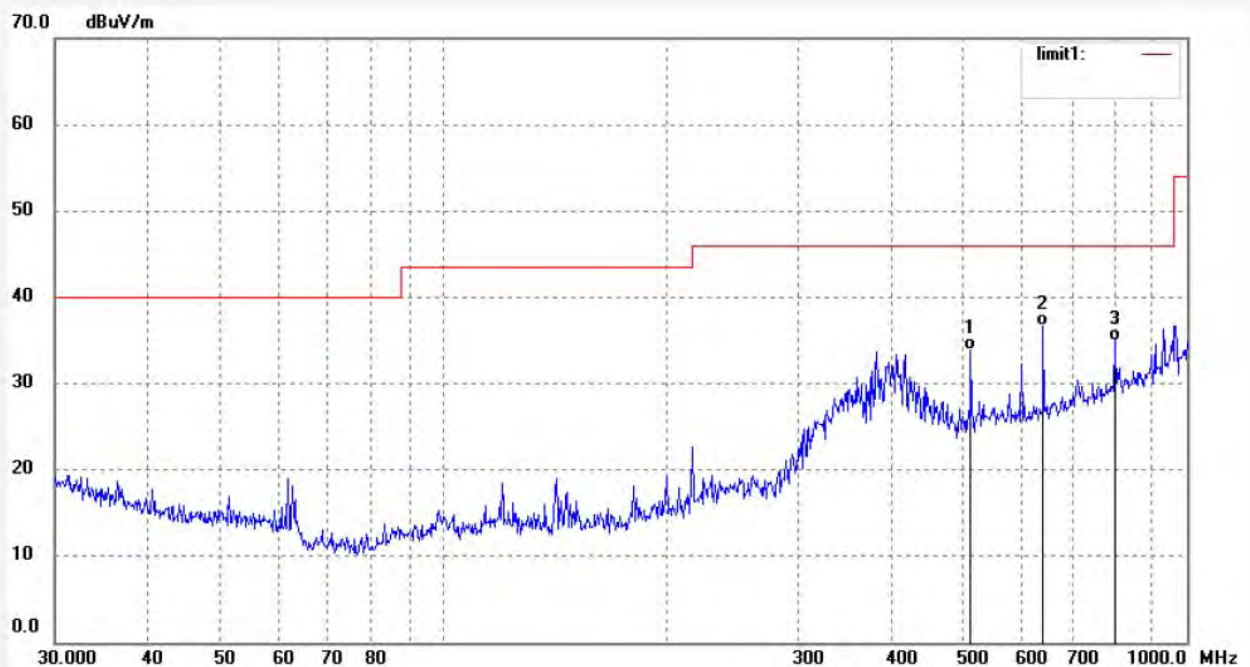
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Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	511.8351	37.93	-4.03	33.90	46.00	-12.10	QP			
2	640.6109	38.58	-1.90	36.68	46.00	-9.32	QP			
3	798.9796	34.19	0.81	35.00	46.00	-11.00	QP			

Job No.: LGW2019 #815

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Revvez Bone Conduction Sunglasses

Mode: Bluetooth playing

Model: OS100

Manufacturer: AfterShokz LLC

Polarization: Horizontal

Power Source: DC 3.7V

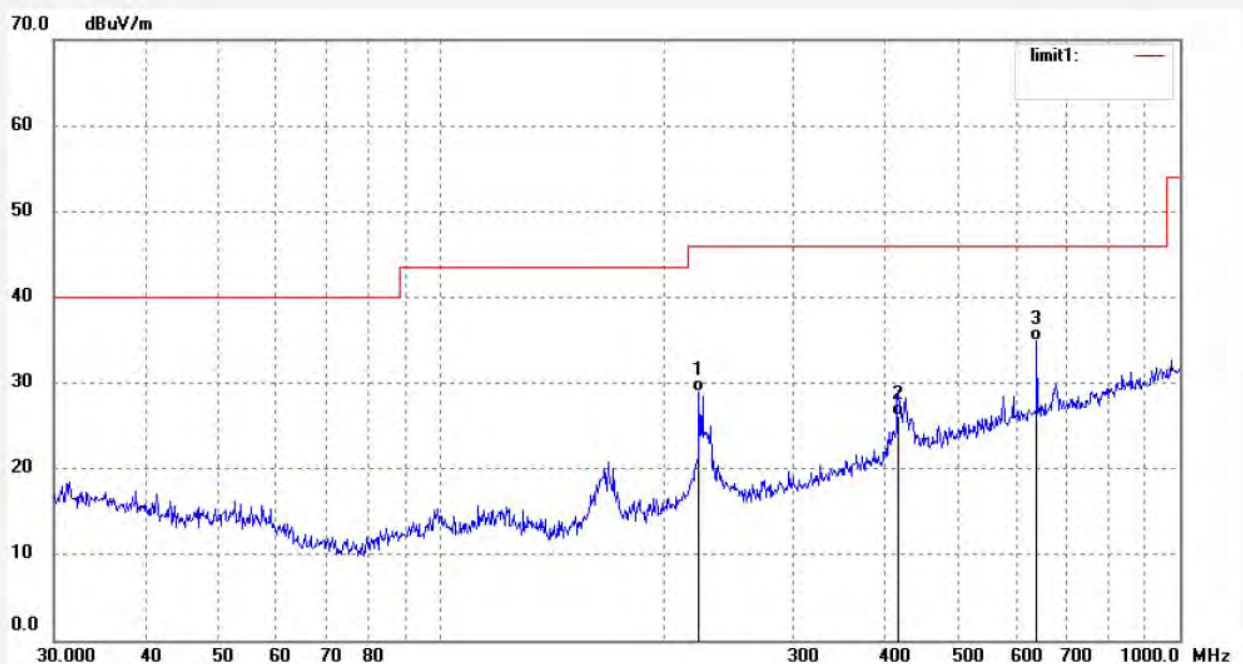
Date: 19/04/01/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	223.7333	40.21	-11.30	28.91	46.00	-17.09	QP			
2	416.1791	32.15	-5.95	26.20	46.00	-19.80	QP			
3	640.6109	36.88	-1.90	34.98	46.00	-11.02	QP			

Job No.: LGW2019 #816

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Revvez Bone Conduction Sunglasses

Mode: Bluetooth playing

Model: OS100

Manufacturer: AfterShokz LLC

Polarization: Vertical

Power Source: DC 3.7V

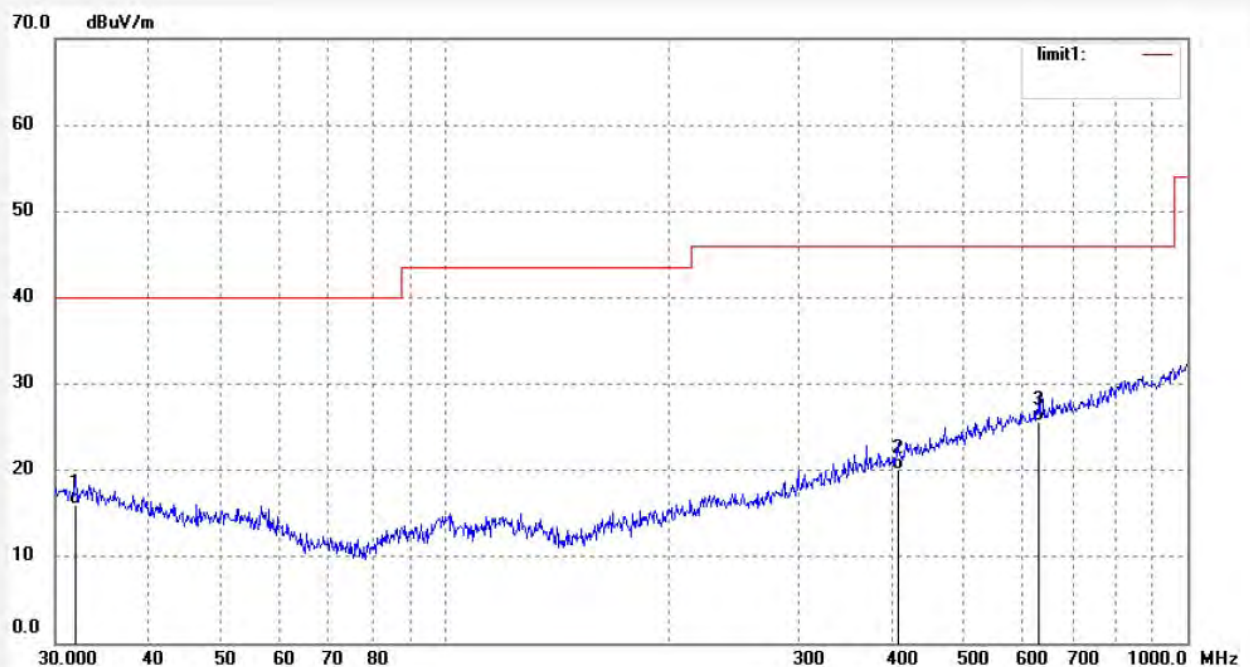
Date: 19/04/01/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	31.9545	25.55	-9.51	16.04	40.00	-23.96	QP			
2	407.5144	26.38	-6.26	20.12	46.00	-25.88	QP			
3	631.6884	27.53	-1.95	25.58	46.00	-20.42	QP			

Job No.: LGW2019 #819

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Revvez Bone Conduction Sunglasses

Mode: Charging

Model: OS100

Manufacturer: AfterShokz LLC

Polarization: Horizontal

Power Source: DC 5V

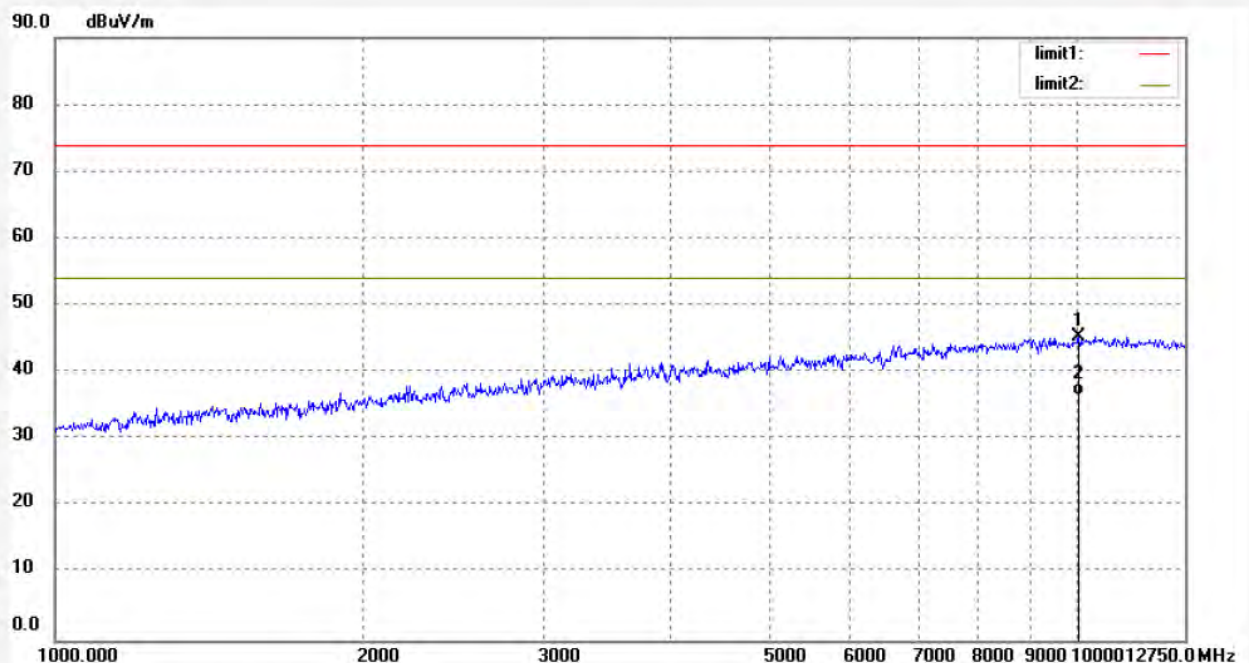
Date: 19/04/01/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	10036.730	30.73	14.67	45.40	74.00	-28.60	peak			
2	10036.730	21.78	14.67	36.45	54.00	-17.55	AVG			

Job No.: LGW2019 #820

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Revvez Bone Conduction Sunglasses

Mode: Charging

Model: OS100

Manufacturer: AfterShokz LLC

Polarization: Vertical

Power Source: DC 5V

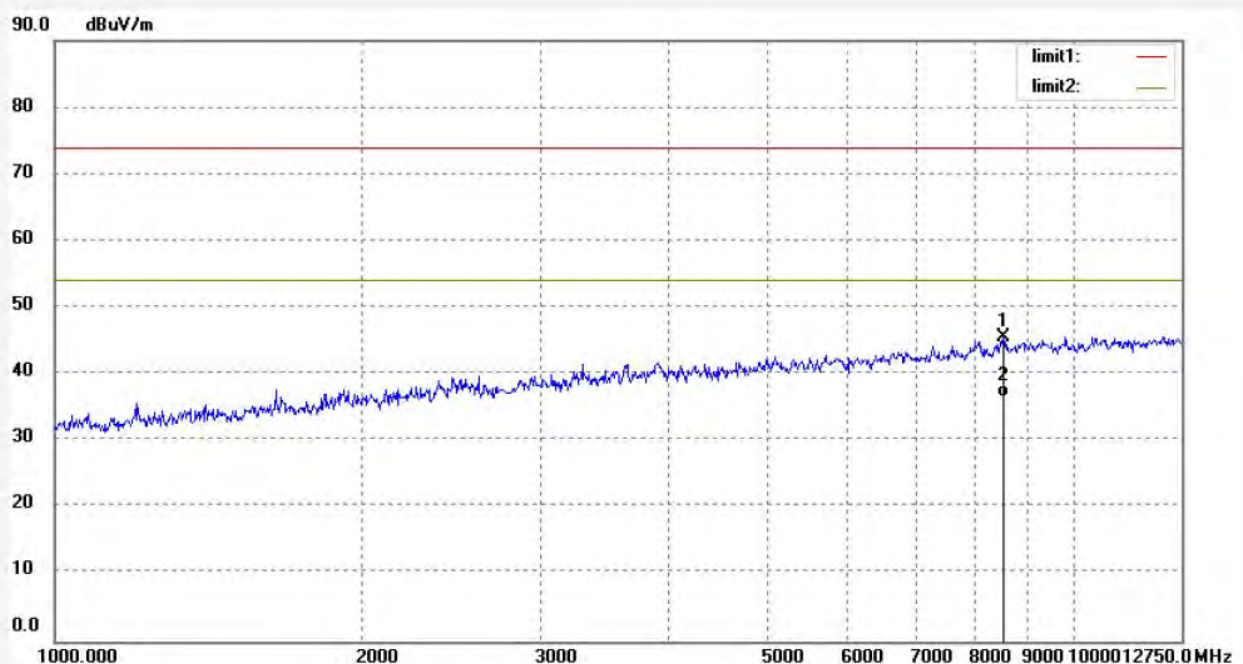
Date: 19/04/01/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	8527.850	30.56	15.02	45.58	74.00	-28.42	peak			
2	8527.850	21.52	15.02	36.54	54.00	-17.46	AVG			

Job No.: LGW2019 #818

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Revvez Bone Conduction Sunglasses

Mode: Bluetooth playing

Model: OS100

Manufacturer: AfterShokz LLC

Polarization: Horizontal

Power Source: DC 3.7V

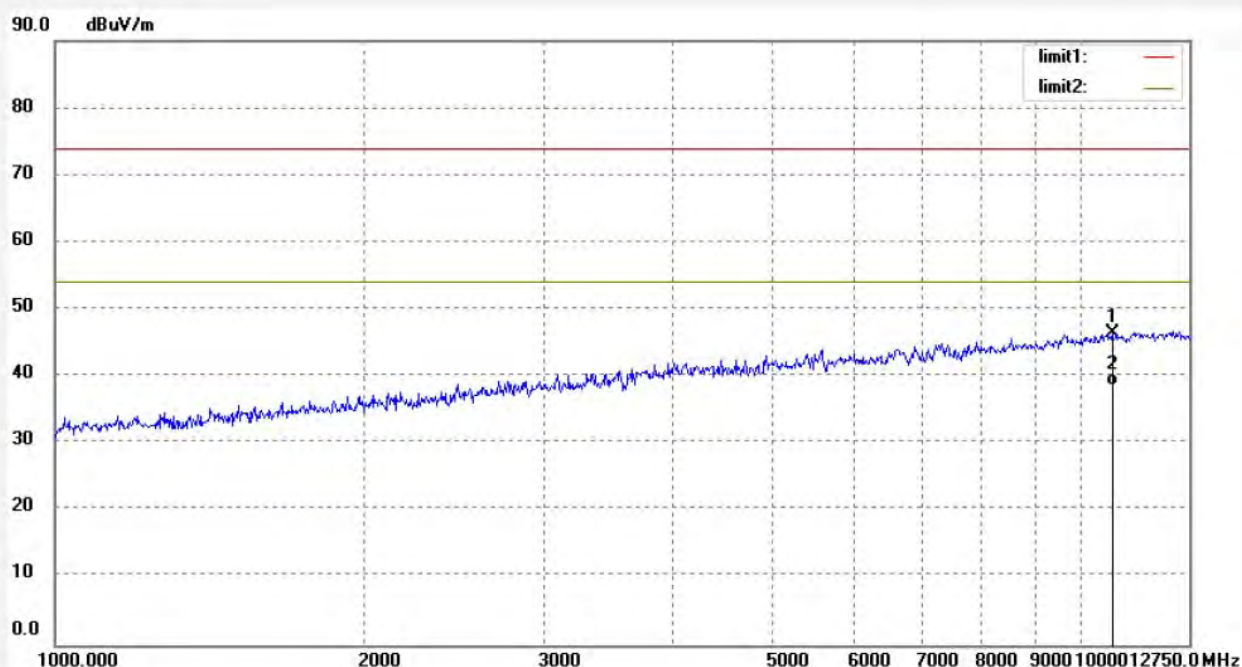
Date: 19/04/01/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	10723.474	32.63	13.75	46.38	74.00	-27.62	peak			
2	10723.474	24.90	13.75	38.65	54.00	-15.35	AVG			

Job No.: LGW2019 #817

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Revvez Bone Conduction Sunglasses

Mode: Bluetooth playing

Model: OS100

Manufacturer: AfterShokz LLC

Polarization: Vertical

Power Source: DC 3.7V

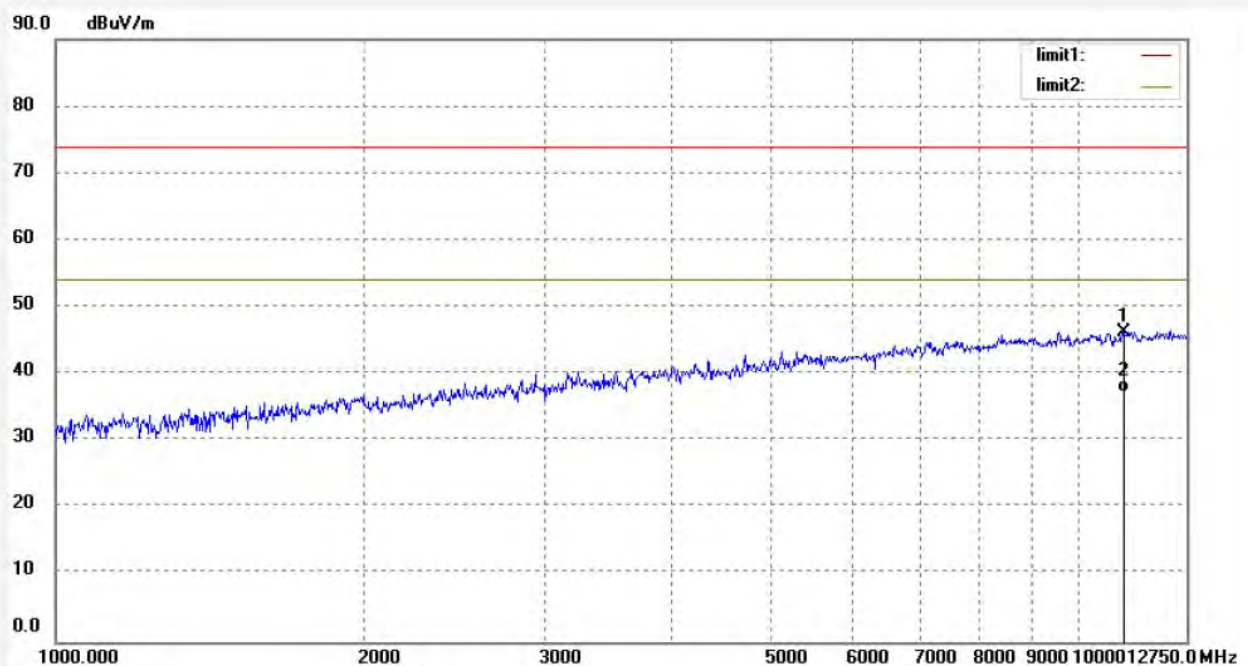
Date: 19/04/01/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11084.271	31.85	14.38	46.23	74.00	-27.77	peak			
2	11084.271	22.86	14.38	37.24	54.00	-16.76	AVG			

***** End of Test Report *****