

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC154401

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FCC Radio Test Report FCC ID: 2AMIU-5B

Original Grant

Report No. TB-FCC154401

Shenzhen Benjun Technology Co., LTD **Applicant**

Equipment Under Test (EUT)

EUT Name Bone-conduction headphone and sunglasses

Model No. Vision 5B

N/A Serial Model No.

Brand Name BJVISION/ACTEK

Receipt Date 2017-06-24

2017-06-25 to 2017-07-05 **Test Date**

Issue Date 2017-07-06

FCC Part 15: 2016, Subpart C(15.247) **Standards**

Test Method ANSI C63.10: 2013

Conclusions PASS

In the configuration tested, the EUT complied with the standards specified above,

Test/Witness

Engineer

Approved& **Authorized**

LVAN SU fay tai.

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0



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1. General Information about EUT

1.1 Client Information

Applicant: Shenzhen Benjun Technology Co., LTD

Address : 8-709 Runcheng garden xili Nanshan Shenzhen China

Manufacturer : Shenzhen Tianjiu Electronics Co., Ltd.

Address : Building 3, No. 21, Makan Road, Xili Town, Nanshan District,

Shenzhen, Guangdong, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	Ŀ	Bone-conduction headphone and sunglasses		
Models No.		Vision 5B		
The same		Operation Frequency:	Bluetooth 4.0(BLE): 2402MHz~2480MHz	
	A	Number of Channel:	Bluetooth 4.0(BLE): 40 channels see note(3)	
Product		RF Output Power:	6.029dBm Conducted Power	
Description		Antenna Gain:	0dBi PCB Antenna	
		Modulation Type:	GFSK	
	6	Bit Rate of Transmitter:	1Mbps(GFSK)	
Power Supply		DC power by USB cable DC power by Li-ion batte		
Power Rating		DC 5V by Host System. DC 3.7V by 250mAh Li-ion Battery.		
Connecting I/O Port(S)	:	Please refer to the User's Manual		

Note:

This Test Report is FCC Part 15.247 for Bluetooth BLE, the test procedure follows the FCC KDB 558074 D01 DTS Means Guidance v04.

- (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (2) Antenna information provided by the applicant.



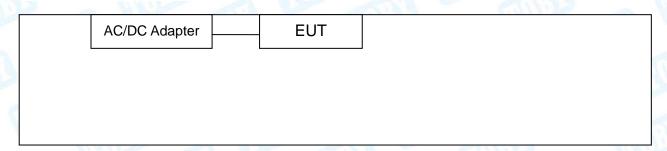
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(3) Channel List:

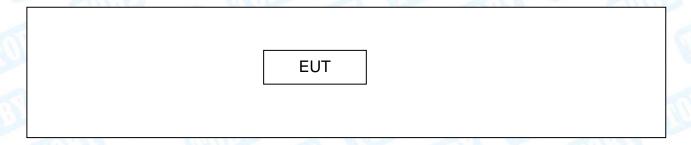
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		

1.3 Block Diagram Showing the Configuration of System Tested

Charging + TX Mode



TX Mode





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1.4 Description of Support Units

Equipment Information						
Name Model FCC ID/VOC Manufacturer Used "√"						
AC/DC Adapter A16-502000 AOHAI √						
AC/DC Adapter In	put: AC 100~240V, 50/60H	z, 0.5A Output: 5	V/2A	WILL DE		
	Cal	ole Information				
Number Shielded Type Ferrite Core Length Note						
Cable 1	YES	NO	1M	A LIVE		

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test			
Final Test Mode Description			
Mode 1	USB Charging + TX Mode		

For Radiated Test					
Final Test Mode	Description				
Mode 2	TX Mode				
Mode 3	TX Mode (Channel 00/20/39)				

Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

BLE Mode: GFSK Modulation Transmitting mode.

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a portable unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



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1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF setting.

Test Software Version	Blue Test 3.exe		
Frequency	2402 MHz	2442MHz	2480 MHz
BLE GFSK	DEF	DEF	DEF

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Redicted Emission	Level Accuracy:	±4.60 dB
Radiated Emission	9kHz to 30 MHz	±4.00 dB
Radiated Emission	Level Accuracy:	±4.40 dB
Radiated Effilssion	30MHz to 1000 MHz	±4.40 db
Redicted Emission	Level Accuracy:	.4.20 dB
Radiated Emission	Above 1000MHz	±4.20 dB



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1.8 Test Facility

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at:1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.



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2. Test Summary

Standard Section		Took Itams	Thursday, a cont	Damari
FCC	IC	Test Item	Judgment	Remark
15.203		Antenna Requirement	PASS	N/A
15.207(a)	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205&15.247(d)	RSS-GEN 7.2.2	Band-Edge & Unwanted Emissions into Restricted Frequency	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)(3) RSS 247 5.4 (4)		Conducted Max Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.205, 15.209&15.247(d)	RSS 247 5.5	Transmitter Radiated Spurious &Unwanted Emissions into Restricted Frequency	PASS	N/A

Note: N/A is an abbreviation for Not Applicable.



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3. Test Equipment

Conducte	d Emission Te	st			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
LISN	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
Radiation	Emission Tes	t			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.25, 2017	Mar. 24, 201
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.25, 2017	Mar. 24, 201
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.24, 2017	Mar. 23, 201
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.24, 2017	Mar. 23, 201
Loop Antenna	Laplace instrument	RF300	0701	Mar.24, 2017	Mar. 23, 201
Pre-amplifier	Sonoma	310N	185903	Mar.24, 2017	Mar. 23, 201
Pre-amplifier	HP	8449B	3008A00849	Mar.25, 2017	Mar. 24, 201
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.24, 2017	Mar. 23, 201
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna (Conducted Em	ission			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Power Meter	Anritsu	ML2495A	25406005	Jul. 22, 2016	Jul. 21, 2017
Power Sensor	Anritsu	ML2411B	25406005	Jul. 22, 2016	Jul. 21, 2017



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4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

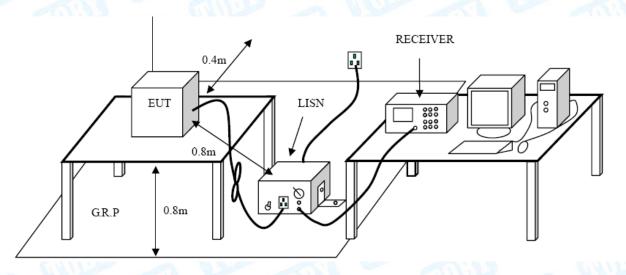
Conducted Emission Test Limit

	Maximum RF Line Voltage (dBμV)		
Frequency	Quasi-peak Level	Average Level	
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.



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I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9 kHz, and the test frequency band is from 0.15MHz to 30MHz.

4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Da5ta

Test data please refer the following pages.



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1	0]	3	Y	
	W	b			

EUT:	Bone-conduction I	neadphone	Model:		Visio	n 5B
Temperature:	and sunglasses 25℃		Relative	Humidity:	55%	
Test Voltage:	AC 120V/60 Hz	only.	Rolativo	Tullianty!	0070	
Terminal:	Line	100		3		U.S.
Test Mode:	USB Charging Mo	de	1		1	
Remark:	Only worse case is			BHOTH I		
90.0 dBuV						
					QP: AVG:	_
					ATU.	
40	<i></i>					
	NAME OF THE PROPERTY OF THE PR	4 (1.00 p. 1.00 p. 1.0	NAY AUNAWAYA	MW Maratin Han		
	M 4	Ar. MA .A. MA	"	. A let helpharmondow	Mary Mary 1	u
The state of the s	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ma m m m.	J. A.			What have peak
	10,144	MA MAN	$\Lambda \Lambda \Lambda \Lambda \Lambda \Lambda \Lambda \Lambda \Lambda$	/Y/Y//////////////////////////////////	Montherman	Managembran AVG
-10 0.150	0.5	(MHz)	5			30.000
	Reading	Correct	Measure-			
No. Mk. Fi	req. Level	Factor	ment	Limit	Over	
M	lHz dBuV	dB	dBuV	dBuV	dB	Detector
1 0.3	140 24.38	9.59	33.97	59.86 -2	25.89	QP
2 0.3	140 10.06	9.59	19.65	49.86 -3	0.21	AVG
3 0.4	980 24.02	9.60	33.62	56.03 -2	2.41	QP
4 0.4	980 7.15	9.60	16.75	46.03 -2	9.28	AVG
5 * 0.5	940 25.20	9.60	34.80	56.00 -2	21.20	QP
6 0.5	940 10.50	9.60	20.10	46.00 -2	25.90	AVG
7 0.6	740 24.64	9.61	34.25	56.00 -2	21.75	QP
8 0.6	740 9.85	9.61	19.46	46.00 -2	26.54	AVG
9 0.7	780 21.18	9.61	30.79	56.00 -2	25.21	QP
10 0.7	780 6.36	9.61	15.97	46.00 -3	80.03	AVG
11 1.0	780 19.15	9.60	28.75	56.00 -2	27.25	QP
12 1.0	780 3.92	9.60	13.52	46.00 -3	32.48	AVG
Emission Level=	= Read Level+ Cor	rect Factor				



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FUT	Bone-conduction	n headphone	Marilal		\ /:-:-	
EUT:	and sunglasses		Model:		Visio	n 5B
Temperature:	25℃		Relative	Humidity:	55%	A THURSDAY
Test Voltage:	AC 120V/60 Hz			III	133	
Terminal:	Neutral	W. CHILL		1 67		TITE OF
Test Mode:	USB Charging N	Mode			5 1	
Remark:	Only worse case	e is reported	Color			M
90.0 dBuV						
					QP: AVG:	
Ü	N. X					
40	₩~√~¥\/~\q^\$ _{\~} \\\\\	Mr me m	Λ IA M A N A . A			
√	יין ע) <u> </u>	AMAMMA	WWYWWW	al Marketing State of the	
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					., .,	AVG
-10						
0.150	0.5	(MHz)	5			30.000
	Reading	Correct	Measure-		0	
	eq. Level	Factor	ment	Limit	Over	
	Hz dBuV	dB	dBuV	dBuV	dB	Detector
1 0.33		9.57	37.83	59.35 -		QP
2 0.33	339 13.01	9.57	22.58	49.35 -	-26.77	AVG
3 * 0.48	820 29.94	9.58	39.52	56.30 -		QP
4 0.48	820 14.23	9.58	23.81	46.30 -	-22.49	AVG
5 0.58	860 29.12	9.58	38.70	56.00 -	-17.30	QP
6 0.58	860 13.05	9.58	22.63	46.00 -	-23.37	AVG
7 0.68	820 27.03	9.59	36.62	56.00 -	19.38	QP
8 0.68	820 11.43	9.59	21.02	46.00 -	-24.98	AVG
9 0.85	580 24.31	9.59	33.90	56.00 -	-22.10	QP
10 0.85	580 6.47	9.59	16.06	46.00 -	29.94	AVG
11 1.36	619 25.86	9.60	35.46	56.00 -	-20.54	QP
12 1.36	619 9.22	9.60	18.82	46.00 -	-27.18	AVG
Emission Level=	Read Level+ Co	rrect Factor				



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EUT:		conduction hunglasses	neadphone	Model:		Visio	n 5B
Temperatur	e: 25℃	I The	-	Relative I	Humidity:	55%	
Test Voltage	e: AC 24	0V/60 Hz	Will 5		I BE		500
Terminal:	Line	The same		Common of the same		18	
Test Mode:	USBC	Charging Mo	de	6	1		
Remark:	Only w	vorse case is	s reported	-	AMO		M.
40 X	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Mark WX	^\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MM	QP: AVG:	Washington AV
-10	0.5		(MHz)	5			30.000
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detecto
1	0.2500	24.77	9.58	34.35	61.75 -	27.40	QP
2	0.2500	17.75	9.58	27.33	51.75 -	24.42	AV
3	0.4260	28.62	9.60	38.22	57.33 -	19.11	QP
4 *	0.4260	22.61	9.60	32.21	47.33 -	15.12	AV
5	1.0940	25.47	9.60	35.07	56.00 -	20.93	QP
6	1.0940	17.78	9.60	27.38	46.00 -	18.62	AV
7	0.7500	25.30	9.61	34.91	56.00 -	21.09	QP
8	0.7500	17.13	9.61	26.74	46.00 -	19.26	AV
9	1.7940	22.66	9.61	32.27	56.00 -	23.73	QP
10	1.7940	15.74	9.61	25.35	46.00 -	20.65	AVO
10	1.7540	10.14	0.01	20.00	40.00	20.00	

Emission Level= Read Level+ Correct Factor

15.89

9.62

25.51

2.4020

12

AVG

46.00 -20.49



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	-	
М	\mathbf{V}	$\mathbf{p}\mathbf{v}$
	LU/	\mathbf{D}
	V	$\boldsymbol{\nu}_{\perp}$

EUT:		e-conduction sunglasses	headphone	Model:		Visio	on 5B
Temperature:				Relative	Humidity	: 55%	
rest Voltage:		240V/60 Hz	(MILE)		a Wi		
Terminal:	Neu	ıtral	1	ALD TO			Miles
Test Mode:	USF	3 Charging M	lode				-
Remark:	Only	y worse case	is reported		BAD:		
90.0 dBuV							
40					Mann	QP: AVG:	Pea Month of the pea
0.150	0.5		(MHz)	Measure-			30.000
No. Mk.	Freq.	Reading Level	Factor	ment	Limit	Over	
			dB	JD-AV	JD.A/	dB	Detector
	MHz	dBuV	Ф	dBuV	dBuV		
1 * (MHz 0.3300	31.66	9.57	41.23	59.45		QP
						-18.22	
2 (0.3300	31.66	9.57	41.23	59.45	-18.22 -25.77	
2 (0.3300	31.66 14.11	9.57 9.57	41.23 23.68	59.45 49.45	-18.22 -25.77 -26.19	AVG QP
2 0 3 0 4 0	0.3300 0.3300 0.2420	31.66 14.11 26.21	9.57 9.57 9.62	41.23 23.68 35.83	59.45 49.45 62.02	-18.22 -25.77 -26.19 -33.43	AVG QP
2 (3 (4 (5 (0.3300 0.3300 0.2420 0.2420	31.66 14.11 26.21 8.97	9.57 9.57 9.62 9.62	41.23 23.68 35.83 18.59	59.45 49.45 62.02 52.02	-18.22 -25.77 -26.19 -33.43 -19.61	AVG QP AVG QP
2 0 3 0 4 0 5 0	0.3300 0.3300 0.2420 0.2420 0.4260	31.66 14.11 26.21 8.97 28.14	9.57 9.57 9.62 9.62 9.58	41.23 23.68 35.83 18.59 37.72	59.45 49.45 62.02 52.02 57.33	-18.22 -25.77 -26.19 -33.43 -19.61 -26.98	AVG QP AVG
2 (3 (4 (5 (6 (7 (0.3300 0.3300 0.2420 0.2420 0.4260 0.4260	31.66 14.11 26.21 8.97 28.14 10.77	9.57 9.57 9.62 9.62 9.58 9.58	41.23 23.68 35.83 18.59 37.72 20.35	59.45 49.45 62.02 52.02 57.33 47.33	-18.22 -25.77 -26.19 -33.43 -19.61 -26.98 -19.37	QP AVG QP AVG
2 0 3 0 4 0 5 0 6 0 7 0 8 0	0.3300 0.3300 0.2420 0.2420 0.4260 0.4260 0.5299	31.66 14.11 26.21 8.97 28.14 10.77 27.05	9.57 9.57 9.62 9.62 9.58 9.58	41.23 23.68 35.83 18.59 37.72 20.35 36.63	59.45 49.45 62.02 52.02 57.33 47.33 56.00	-18.22 -25.77 -26.19 -33.43 -19.61 -26.98 -19.37 -27.22	QP AVG QP AVG
2	0.3300 0.3300 0.2420 0.2420 0.4260 0.5299 0.5299 0.8740	31.66 14.11 26.21 8.97 28.14 10.77 27.05 9.20 25.32	9.57 9.57 9.62 9.62 9.58 9.58 9.58 9.58	41.23 23.68 35.83 18.59 37.72 20.35 36.63 18.78 34.91	59.45 49.45 62.02 52.02 57.33 47.33 56.00 46.00	-18.22 -25.77 -26.19 -33.43 -19.61 -26.98 -19.37 -27.22 -21.09	AVG QP AVG QP AVG QP
2	0.3300 0.3300 0.2420 0.2420 0.4260 0.4260 0.5299	31.66 14.11 26.21 8.97 28.14 10.77 27.05 9.20	9.57 9.57 9.62 9.62 9.58 9.58 9.58	41.23 23.68 35.83 18.59 37.72 20.35 36.63 18.78	59.45 49.45 62.02 52.02 57.33 47.33 56.00 46.00 46.00	-18.22 -25.77 -26.19 -33.43 -19.61 -26.98 -19.37 -27.22 -21.09	AVG QP AVG QP AVG



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5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.247(d)

5.1.2 Test Limit

Radiated Emission Limits (9kHz~1000MHz)

Frequency (MHz	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Radiated Emission Limit (Above 1000MHz)

Frequency	Distance Met	ers(at 3m)
(MHz)	Peak (dBuV/m)	Average (dBuV/m)
Above 1000	74	54

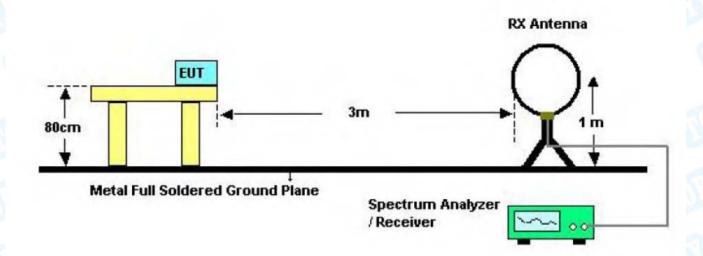
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m)

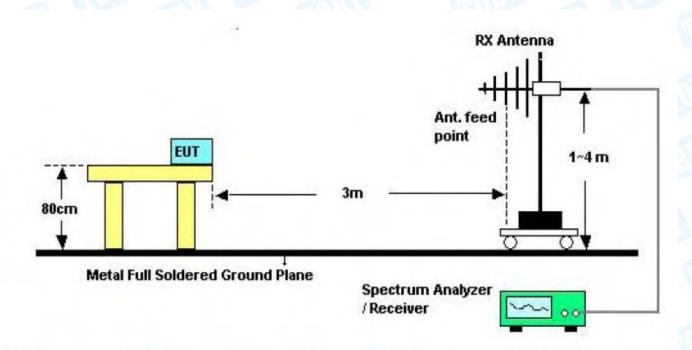


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5.2 Test Setup



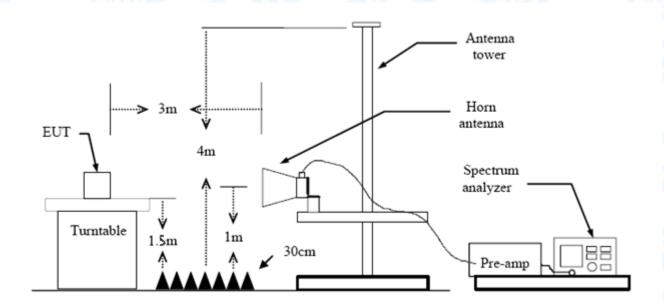
Below 30MHz Test Setup



Below 1000MHz Test Setup



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Above 1GHz Test Setup

5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.



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5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.



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9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB

below the permissible value has no need to be reported.

30MHz~1GHz

EUT:		onduction h	eadphone	Model:		Vision	5B
Temperature:	25℃	3		Relative H	lumidity:	55%	A F
Test Voltage:	DC 3.7	V		71133			
Ant. Pol.	Horizon	ital				180	Pim
Test Mode:	BLE TX	2402 Mod	е	A W	M. Comment		1
Remark:	Only wo	orse case is	reported	187		1117	
80.0 dBuV/m							
-20 30.000 40 50	D 60 70	2 My My M	(MHz)	300	(RF)FCC 15C :	Margin -6 d	
No. Mk. F	req.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
- 1	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1 35.	.0048	36.13	-17.22	18.91	40.00	-21.09	QP
2 92.	1388	38.78	-22.54	16.24	43.50	-27.26	QP
3 171	.9946	41.39	-20.78	20.61	43.50	-22.89	QP
4 238	.3102	43.29	-18.27	25.02	46.00	-20.98	QP
5 * 319	.9370	43.52	-15.89	27.63	46.00	-18.37	QP
6 483	.9094	37.99	-11.14	26.85	46.00	-19.15	QP
*:Maximum data >> Emission Level	c:Over limit	!:over margin	ect Factor				



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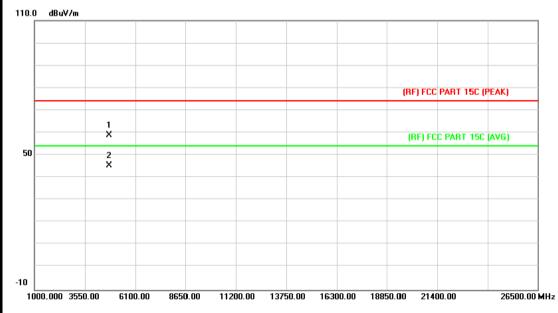
EUT:	Bone-conduction and sunglasses	headphone	Model:		Vision	5B	
Temperature:	25°C						
Test Voltage:	DC 3.7V	OC 3.7V					
Ant. Pol.	Vertical		GMM)		(III)		
Test Mode:	BLE TX 2402 Mod	de	62				
Remark:	Only worse case	is reported		130		4/ 1/4	
80.0 dBuV/m							
-20 30.000 40 50	2 3 X X X X X X X X X X X X X X X X X X X	(MHz)	300	POLITICAL PROPERTY.	Margin -6		
No. Mk. Fr	Reading eq. Level	Correct N Factor	leasure- ment	Limit	Over		
M	Hz dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	
1 35.4	1993 42.05	-17.53	24.52	40.00	-15.48	QP	
2 * 80.0	806 49.69	-23.34	26.35	40.00	-13.65	QP	
3 92.1	388 49.93	-22.54	27.39	43.50	-16.11	QP	
4 171.9	9946 42.13	-20.78	21.35	43.50	-22.15	QP	
5 319.9	9370 37.17	-15.89	21.28	46.00	-24.72	QP	
6 552.8	8832 39.23	-9.50	29.73	46.00	-16.27	QP	
	:Over limit !:over margin						



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Above 1GHz

EUT:	Bone-conduction headphone and sunglasses	Model:	Vision 5B
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		COLUMN TO SERVICE OF THE PARTY
Ant. Pol.	Horizontal	THE PARTY OF	A COLOR
Test Mode:	BLE Mode TX 2402 MHz		
Remark:	No report for the emission whi prescribed limit.	ch more than 10 dB be	elow the

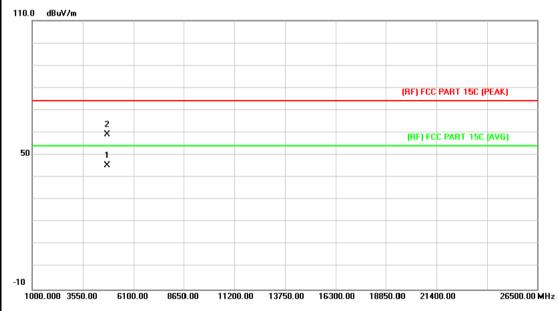


No.	. Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4803.014	47.74	11.15	58.89	74.00	-15.11	peak
2	*	4803.632	34.22	11.16	45.38	54.00	-8.62	AVG



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EUT:	Bone-conduction headphone and sunglasses	Model:	Vision 5B
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		TO I
Ant. Pol.	Vertical		LAD
Test Mode:	BLE Mode TX 2402 MHz		
Remark:	No report for the emission whi prescribed limit.	ch more than 10 dB be	low the

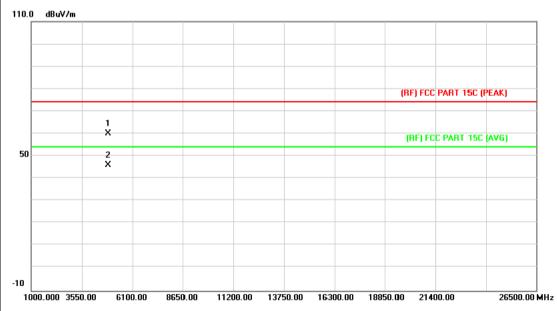


No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4803.106	34.26	11.15	45.41	54.00	-8.59	AVG
2		4803.800	47.87	11.16	59.03	74.00	-14.97	peak



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EUT:	Bone-conduction headphone and sunglasses	Model:	Vision 5B				
Temperature:	25℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V		N. Committee				
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	BLE Mode TX 2442 MHz						
Remark:	No report for the emission whi prescribed limit.	ch more than 10 dB be	low the				

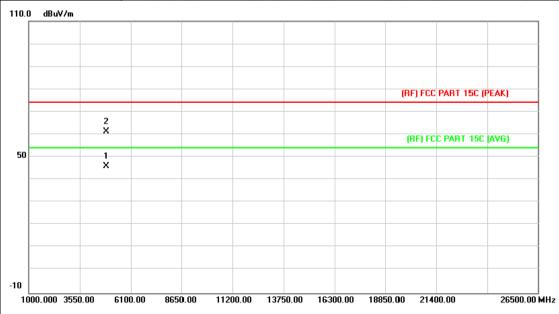


No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4883.096	48.60	11.35	59.95	74.00	-14.05	peak
2	*	4884.684	34.65	11.37	46.02	54.00	-7.98	AVG



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EUT:	Bone-conduction headphone and sunglasses	Model:	Vision 5B
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		CHILL STORY
Ant. Pol.	Vertical	China I	
Test Mode:	BLE Mode TX 2442 MHz	- W	The state of the s
Remark:	No report for the emission whi prescribed limit.	ich more than 10	dB below the
110.0 dBuV/m			



1	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4884.368	34.66	11.36	46.02	54.00	-7.98	AVG
2			4884.658	49.79	11.37	61.16	74.00	-12.84	peak



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EUT:	Bone-conduction headphone and sunglasses	Model:	Vision 5B				
Temperature:	25℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V						
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	BLE Mode TX 2480 MHz	1000					
Remark:	No report for the emission whi prescribed limit.	ch more than 10 dB be	elow the				

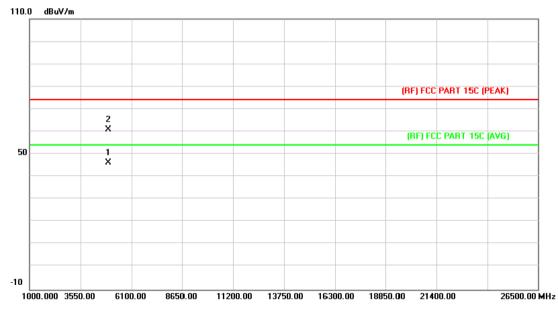


No.	Mk	Freq.	_		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4960.264	34.94	11.55	46.49	54.00	-7.51	AVG
2		4960.276	49.02	11.55	60.57	74.00	-13.43	peak



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EUT:	Bone-conduction headphone and sunglasses	Model:	Vision 5B					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	DC 3.7V							
Ant. Pol.	Vertical	Vertical						
Test Mode:	BLE Mode TX 2480 MHz	1						
Remark:	No report for the emission whi prescribed limit.	ch more than 10 dB be	elow the					



No	. Mk	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4960.368	34.81	11.55	46.36	54.00	-7.64	AVG
2		4960.982	49.54	11.55	61.09	74.00	-12.91	peak



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6. Restricted Bands Requirement

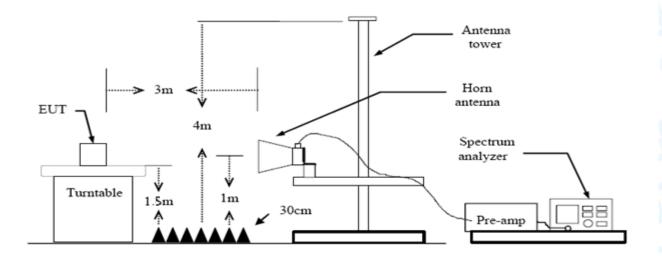
6.1 Test Standard and Limit

6.1.1 Test Standard FCC Part 15.247(d) FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Distance Me	eters(at 3m)
Band (MHz)	Peak (dBuV/m)	Average (dBuV/m)
2310 ~2390	74	54
2483.5 ~2500	74	54

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector



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mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

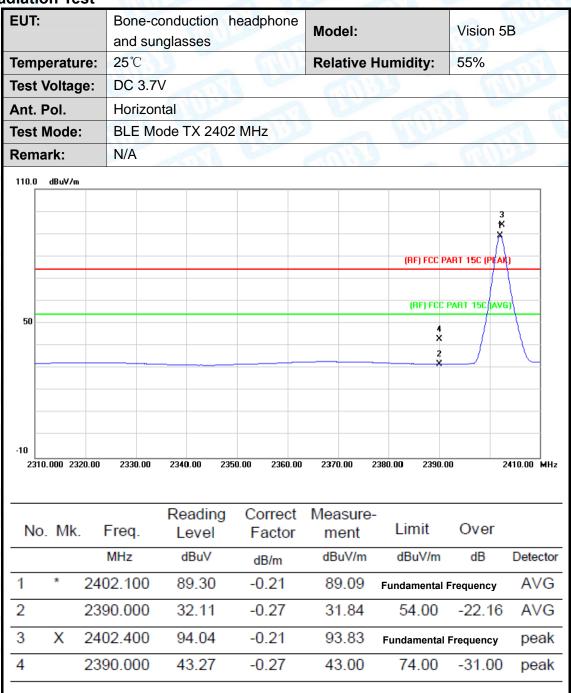
Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.



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(1) Radiation Test





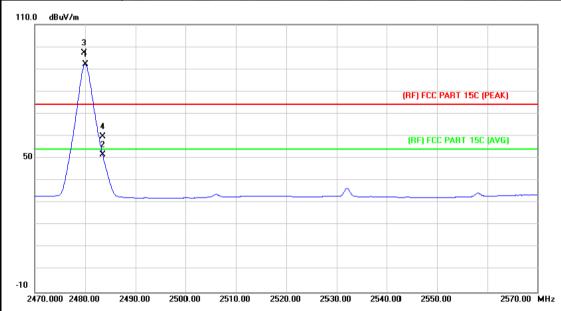
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EU1	T:		Bone-conduction headphon and sunglasses		none	Mode	l:	Vision	Vision 5B		
Tem	peratu	ıre:	25℃	un igrae o				Relati	ve Humidity:	55%	
Test Voltage:			DC 3.	7V							
Ant	Pol.		Vertic	al	W.	10				E BI	Min-
Test Mode:):	BLE N	/lode TX	(240	2 MHz	a	1			(
Ren	nark:		N/A						A MILLER		M
110.0) dBuV/π	n									
										3 K	
										À	
									(RF) FCC PA	RT 15C PEA	K)
										$-$ / $ $ \	
50									(RF) FCC F	PART 15C (AV	G)
									4 ×		
									2 X		
-10											
23	312.000 23	322.00	2332.00	2342.00	235	2.00 23	62.00	2372.00	2382.00 2392.0	0	2412.00 MH
				Doodi		0.0000	a+ N	100000	-		
N	o. Mk	Fr	eq.	Readi Leve		Corre Facto		/leasur ment	e- Limit	Over	
			Hz	dBuV				dBuV/n	n dBuV/m	dB	Detecto
_	*					dB/m					
1	-		2.100	86.4		-0.21		86.20			AVG
		0000		20.0	4	0.07	,	24 74	54.00	-22.26	AVG
2		2390	0.000	32.0	1	-0.27		31.74	34.00	22.20	
2	X		2.300	91.2		-0.21		91.01			peak



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EUT:	Bone-conduction headphone and sunglasses	Vision 5B				
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Ant. Pol.	Horizontal					
Test Mode:	BLE Mode TX 2480 MHz					
Remark:	N/A					



N	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2480.000	92.11	0.17	92.28	Fundamental	Frequency	AVG
2		2483.500	51.38	0.19	51.57	54.00	-2.43	AVG
3	X	2479.800	96.96	0.17	97.13	Fundamental	Frequency	peak
4		2483.500	59.62	0.19	59.81	74.00	-14.19	peak



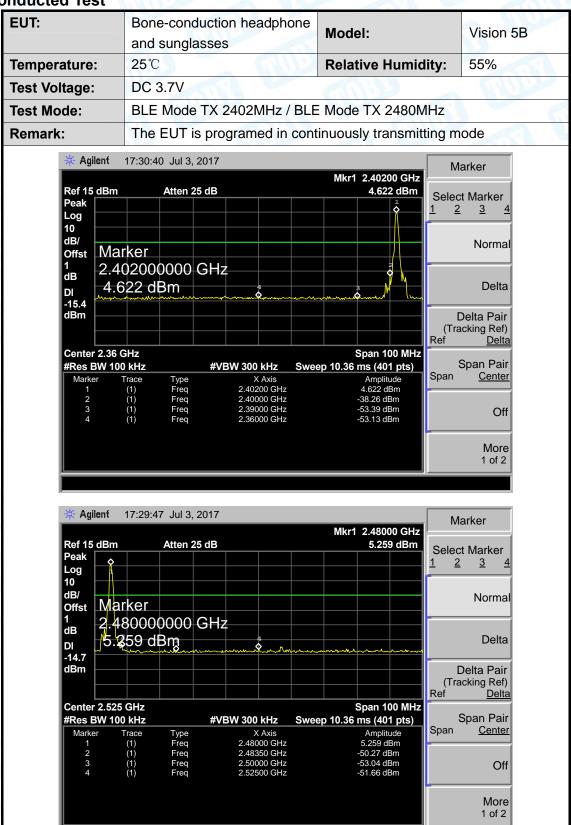
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EUT:				-conduction unglasses	headphone	Model:	Model:		Vision 5B	
Tem	peratu	ıre:	25℃	ungiacooo		Relative	ve Humidity: 55%			
	Volta		DC 3.	7V	amb	A NEW TOTAL				
Ant.	Pol.		Vertical						1	
Test	Mode	:	BLE N	Mode TX 248	80 MHz	630	0.00			
Rem	ark:		N/A		CHILD					
110.0	dBuV/r	n								
-10 24	70.000 24	3 × 4	2490.00	2500.00 25	10.00 2520.00	2530.00 29		ART 15C (PEAK)		
				Reading		Measure-	Limit	Over		
No	. Mk	. гі	eq.	Level	Factor	ment	Liiiii			
No). IVIK		eq. Hz	dBuV	dB/m	ment dBuV/m	dBuV/m	dB	Detecto	
	X		Hz							
1		М	Hz .800	dBuV	dB/m	dBuV/m	dBuV/m	requency	peal	
1 2 3	X	M 2479	Hz 0.800 0.000	dBuV 97.79	dB/m 0.17	dBuV/m 97.96	dBuV/m	requency	peak AVG	



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(2) Conducted Test





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7. Bandwidth Test

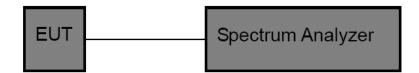
7.1 Test Standard and Limit

7.1.1 Test Standard FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC F	FCC Part 15 Subpart C(15.247)/RSS-247						
Test Item	Limit	Frequency Range(MHz)					
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5					

7.2 Test Setup



7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.



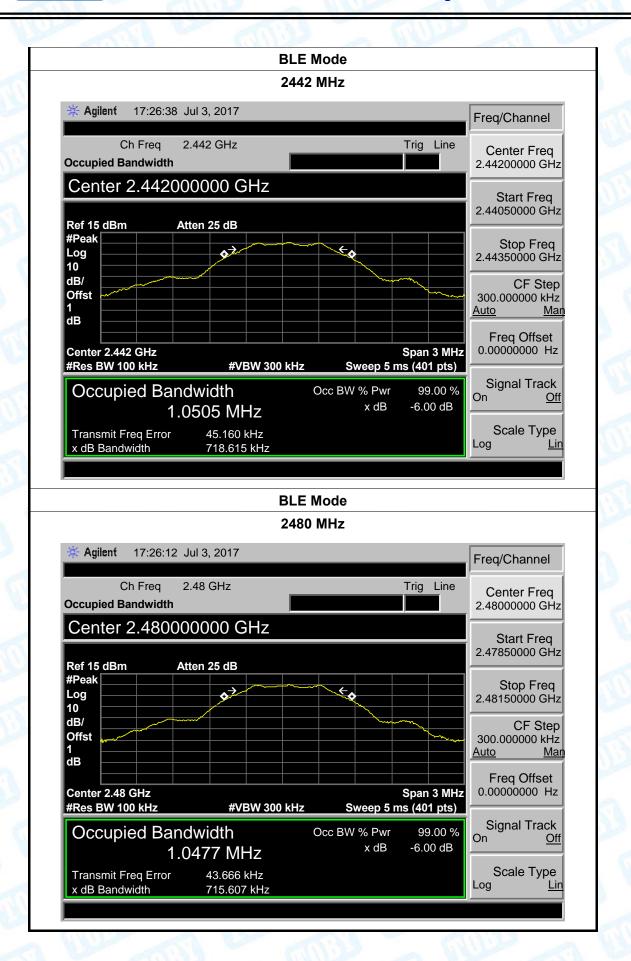
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7.5 Test Data

		e-conduction headphone sunglasses	Model:	Vision 5B
mperature:	25℃		Relative Humidity	: 55%
st Voltage:	DC 3	3.7V		
st Mode:	BLE	TX Mode		
hannel frequ	uency	6dB Bandwidth	99% Bandwidth	Limit
(MHz)		(kHz)	(kHz)	(kHz)
2402		718.035	1050.6	
2442		718.615	1050.5	>=500
2480		715.607	1047.7	
		BLE Mod	le	
		2402 MH	z	
C	h Freq	2.402 GHz	Trig Line	Center Freq
Occupied Ba	ndwidth		Trig Line	Center Freq 2.40200000 GHz
Center 2	2.4020	00000 GHz	Trig Line	
Center 2 Ref 15 dBm #Peak	2.4020	00000 GHz Atten 25 dB		2.40200000 GHz Start Freq 2.40050000 GHz Stop Freq
Center 2 Ref 15 dBm #Peak Log 10	2.4020	00000 GHz	Trig Line	2.40200000 GHz Start Freq 2.40050000 GHz Stop Freq 2.40350000 GHz
Center 2 Ref 15 dBm #Peak Log 10 dB/ Offst	2.4020	00000 GHz Atten 25 dB		2.40200000 GHz Start Freq 2.40050000 GHz Stop Freq
Center 2 Ref 15 dBm #Peak Log 10 dB/	2.4020	00000 GHz Atten 25 dB		2.40200000 GHz Start Freq 2.40050000 GHz Stop Freq 2.40350000 GHz CF Step 300.000000 kHz Auto Man
Center 2 Ref 15 dBm #Peak Log 10 dB/ Offst	2.4020	00000 GHz Atten 25 dB		2.40200000 GHz Start Freq 2.40050000 GHz Stop Freq 2.40350000 GHz CF Step 300.0000000 kHz Auto Man Freq Offset 0.000000000 Hz
Center 2 Ref 15 dBm #Peak Log 10 dB/ Offst 1 dB Center 2.402	2.4020 2.4020 2.GHz 0 kHz	00000 GHz Atten 25 dB #VBW 300 kHz	Span 3 MHz	2.40200000 GHz Start Freq 2.40050000 GHz Stop Freq 2.40350000 GHz CF Step 300.000000 kHz Auto Man Freq Offset
Center 2 Ref 15 dBm #Peak Log 10 dB/ Offst 1 dB Center 2.402 #Res BW 10	2.4020 2.4020 2.GHz 0 kHz ed Bar 1.	#VBW 300 kHz	Span 3 MHz Sweep 5 ms (401 pts) BW % Pwr 99.00 %	2.40200000 GHz Start Freq 2.40050000 GHz Stop Freq 2.40350000 GHz CF Step 300.0000000 kHz Auto Man Freq Offset 0.000000000 Hz Signal Track



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8. Peak Output Power Test

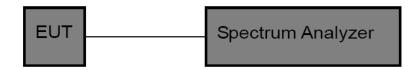
8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)(3)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-247						
Test Item Limit Frequency Range(MHz)						
Peak Output Power	1 Watt or 30 dBm	2400~2483.5				

8.2 Test Setup



8.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to section 9.1.1 of KDB 558074 D01 DTS Meas Guidance v04.

- (1) Set the RBW≥DTS Bandwidth
- (2) Set VBW≥3*RBW
- (3) Set Span≥3*RBW
- (4) Sweep time=auto
- (5) Detector= peak
- (6) Trace mode= maxhold.
- (7) Allow trace to fully stabilize, and then use peak marker function to determine the peak amplitude level.

8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.



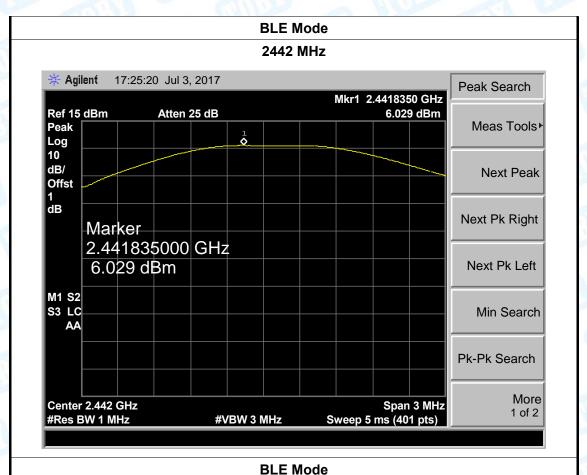
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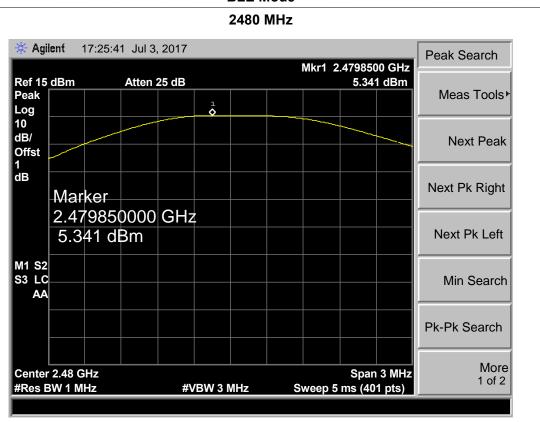
8.5 Test Data

T:		Bone-conduction headphone and sunglasses Model:				Vision 5B		
nperat	ure:	25℃			Relative Humidity		y: 55%	
st Volta	ge:	DC 3.7V						
st Mode	e :	BLE TX N	Лode	HILL .		A STATE		
annel	frequenc	y (MHz)	Tes	st Result (d	Bm)	Lin	nit (dBm)	
	2402			5.044				
	2442			6.029			30	
	2480			5.341				
				BLE Mode)			
				2402 MHz	<u> </u>			
Ref 15	dBm	Atten 2	5 dB		Mkr1 2.4	023375 GHz 5.044 dBm	Mana Tanlah	
🔆 Agii	lent 17:2	4:15 Jul 3,	2017				Peak Search	
Ref 15 Peak	dBm	Atten 2	5 dB				Meas Tools⊁	
Log				1			Wicas 100is	
10 dB/							Next Peak	
Offst								
	Marke	r					Next Pk Right	
Offst	Marke 2.4023		GHz				Next Pk Right	
Offst		37500	GHz				Next Pk Right Next Pk Left	
Offst 1 dB	2.4023 5.044	37500	GHz				Next Pk Left	
Offst 1 dB	2.4023 5.044	37500	GHz					
Offst 1 dB M1 S2 S3 LC	2.4023 5.044	37500	GHz				Next Pk Left Min Search	
Offst 1 dB M1 S2 S3 LC	2.4023 5.044	37500	GHz				Next Pk Left	
Offst 1 dB M1 S2 S3 LC AA	2.4023 5.044	337500 (dBm	GHz #vbw:				Next Pk Left Min Search	



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9. Power Spectral Density Test

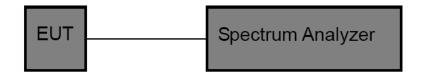
9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)					
Test Item Limit Frequency Range(MHz)					
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5			

9.2 Test Setup



9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v04.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequenyc.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz(5) Set the VBW to: 10 kHz
- (6) Detector: peak

amplitude level.

(7) Sweep time: auto(8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum

9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Midle and high channel for the test.



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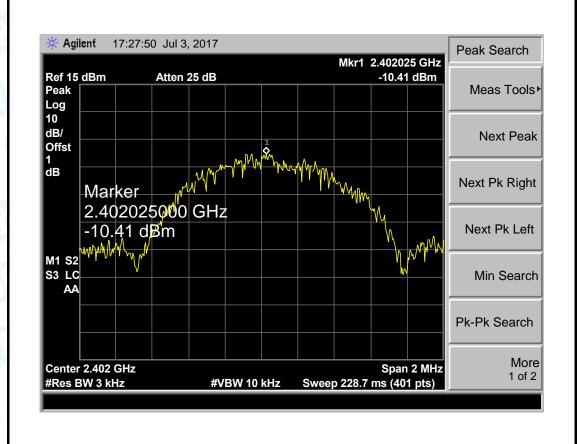
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9.5 Test Data

EUT:	Bone-con and sungl	duction headphone asses	Model:		Vision 5B
Temperature:	25℃		Relative	Humidity:	55%
Test Voltage:	DC 3.7V	7:19	WHITE STATE		A BOTTON
Test Mode:	BLE TX M	lode	1		
Channel Frequency	uency	Power Dens	ity	Limit	Result
(MHz)		(dBm)		(dBm)	Result
2402		-10.41			
2442		-9.193		8	PASS

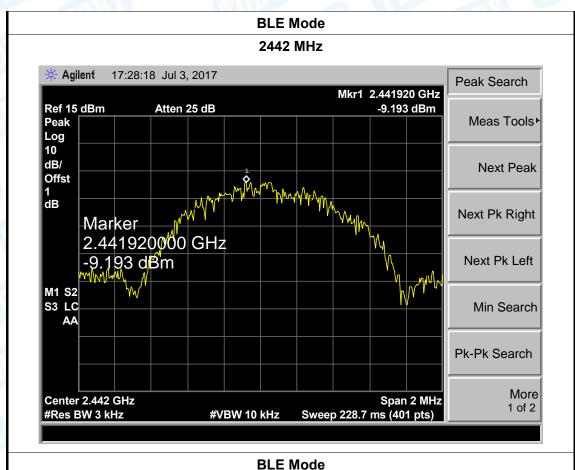
-9.834 **BLE Mode**

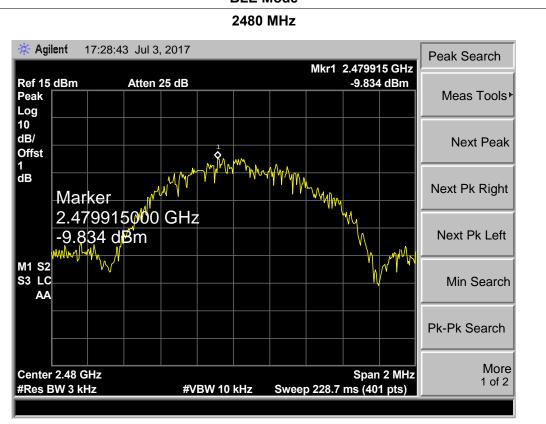
2402 MHz





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10. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard FCC Part 15.203

10.1.2 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 shall be considered sufficient to comply with the provisions of this Section. 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.

10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 0dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

10.3 Result

The EUT antenna is a PCB Antenna. It complies with the standard requirement.

Antenna Type	
⊠Permanent attached antenna	
☐Unique connector antenna	Will state of the
Professional installation antenna	THE REAL PROPERTY.

----END OF REPORT-----