

TEST REPORT

FCC ID:2AEGR-BT14

Applicant : 180s,LLC.

Address : 700 S. Caroline Street, Baltimore, MD 21231, USA

Equipment Under Test (EUT):

Name : Bluetooth headphone

Model : 180s-BT14-V4.0

Trade Name N/A

Standards: FCC PART 15, SUBPART C: 2014 (Section 15.247)

Report No : A1850196 01

Date of Test : March 10- 16, 2015

Date of Issue: March 17, 2015

Tset Result: PASS

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

(Mark Zhu)

General Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Alpha Product Testing Co., Ltd. Or test done by Shenzhen Alpha Product Testing Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Alpha Product Testing Co., Ltd. Approvals in writing.

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1. General Information

1.1. Description of Device (EUT)

EUT : Bluetooth headphone

Model No. : 180s-BT14-V4.0

Trade mark : N/A

Power supply : DC 5V From USB For Charge or DC 3.7V From lithium battery.

Radio Technology : Bluetooth 3.0+EDR

Operation frequency : 2402-2480MHz

Modulation : GFSK, $\pi/4$ DQPSK, 8- DPSK

Antenna Type : Integrated Antenna, max gain -0.61dBi.

Applicant : 180s,LLC.

Address : 700 S. Caroline Street, Baltimore, MD 21231, USA

Manufacturer : Shenzhen Compoka Electronic Technology Co., Ltd

Address : 4F, Building B, Yishida Industrial Park, Xintang Village, Guanlan

Town, Shenzhen China

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1.2. Accessories of device (EUT)

Accessories 1 : USB Line

Type : 0.6m

1.3. Test Lab information

Shenzhen Alpha Product Testing Co., Ltd.

2F, Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China

FCC Registered No.: 203110

2. Summary of test

2.1. Summary of test result

Standard	Results
art 15: 15.247(b)(1) SI C63.4 :2009	PASS
Part 15: 15.215 SI C63.4 :2009	PASS
art 15: 15.247(a)(1) SI C63.4 :2009	PASS
15: 15.247(a)(1)(iii) SI C63.4 :2009	PASS
15: 15.247(a)(1)(iii) SI C63.4 :2009	PASS
C Part 15: 15.209 Part 15: 15.247(d) SI C63.4:2009	PASS
Part 15: 15.247(d) SI C63.4 :2009	PASS
C Part 15: 15.207 SI C63.4 :2009	PASS
Part 15: 15.203	PASS

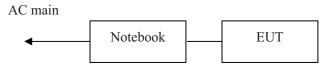
Note: Test with the test procedure Bluetool.

2.2. Assistant equipment used for test

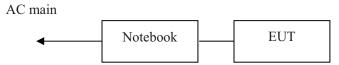
Description	:	NIL
Manufacturer	:	NIL
Model No.	:	NIL
Input	:	NIL
Output	:	NIL

2.3. Block Diagram

1, For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was be set into BT test mode by adb.exe software before test.



2, For Power Line Conducted Emissions Test: EUT was connected to notebook by $0.6 \mathrm{m}$ USB line



2.4. Test mode

The test software "CSR.exe" was used to control EUT work in Continuous TX mode, and select test channel, wireless mode.

Tested mode, channel, and data rate information					
Mode Channel Frequency					
(MHz)					
	Low:CH1	2402			
GFSK	Middle: CH40	2441			
	High: CH79	2480			

Tested mode, channel, and data rate information					
Mode Channel Frequency					
(MHz)					
	Low :CH1	2402			
π /4 DQPSK	Middle: CH40	2441			
	High: CH79	2480			

Tested mode, channel, and data rate information					
Mode Channel Frequency					
(MHz)					
	Low:CH1				
8- DPSK	Middle: CH40	2441			
	High: CH79	2480			

2.5. Test Conditions

Temperature range	21-25℃
Humidity range	40-75%
Pressure range	86-106kPa

2.6. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m	2.13 dB	Polarize: V
chamber (below 30MHz)	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m	3.54dB	Polarize: V
chamber (30MHz to 1GHz)	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m	2.08dB	Polarize: H
chamber (1GHz to 25GHz)	2.56dB	Polarize: V
Uncertainty for radio frequency	1×10-9	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.2℃	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

2.7. Test Equipment

Equipment	Manufacture	Model No.	Serial No.	Cal. Due day	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	2016.01.19	1Year
Spectrum analyzer	Agilent	E4407B	MY49510055	2016.01.19	1Year
Receiver	R&S	ESCI	101165	2016.01.19	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-438	2017.01.21	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2017.01.21	2Year
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170 D(1432)	2017.01.21	2Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2016.01.19	1Year
Cable	Resenberger	SUCOFLEX 104	MY6562/4	2016.01.19	1Year
Cable	Resenberger	SUCOFLEX 104	309972/4	2016.01.19	1Year
Cable	Resenberger	SUCOFLEX 104	329112/4	2016.01.19	1Year
Power Meter	Anritsu	ML2487A	6K00001491	2016.01.19	1Year
Power sensor	Anritsu	ML2491A	32516	2016.01.19	1Year
Pre-amplifier	SCHWARZBECK	BBV9743	9743-019	2016.01.19	1Year
Pre-amplifier	Quietek	AP-180C	CHM-0602012	2016.01.19	1Year

3. Maximum Peak Output power

3.1. Limit

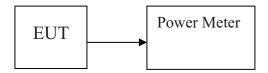
Please refer section 15.247.

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, the e.i.r.p shall not exceed 4W

3.2. Test Procedure

The transmitter output is connected to the RF Power Meter. The RF Power Meter is set to the peak power detection.

3.3. Test Setup



3.4. Test Result

EUT: Bluetoot	h headphone	M/N: 180s-B7	Γ14-V4.0		
Test date: 2015	5-03-15	Test site: RF site	site: RF site Tested by: Store		
Mode	Freq (MHz)	PK Output Power (dBm)	PK Output Power (mW)	Limit (dBm)	Margin (dB)
	2402	1.63	1.46	30	28.37
GFSK	2441	1.37	1.37	30	28.63
	2480	1.42	1.39	30	28.58
	2402	0.61	1.15	30	29.39
π /4 DQPSK,	2441	0.84	1.21	30	29.16
	2480	0.53	1.13	30	29.47
	2402	0.60	1.15	30	29.40
8- DPSK	2441	0.49	1.12	30	29.51
	2480	0.75	1.19	30	29.25
Conclusion: PASS					

4. Bandwidth

4.1. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

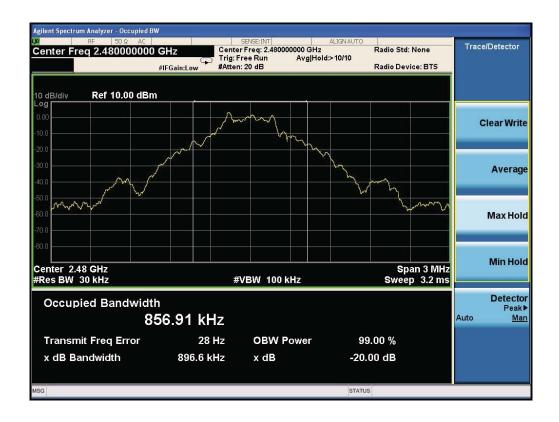
4.3. Test Result

EUT: Bluetooth headphone M/N: 180s-BT14-V4.0					
Test date: 2015	5-03-15	Test site: RF site	Tested by: Sto	ore	
Mode Freq (MHz)		20dB Bandwidth (MHz)	Limit (kHz)	Conclusion	
	2402	0.894	/	PASS	
GFSK	2441	0.895	/	PASS	
	2480	0.897	/	PASS	
	2402	1.126	/	PASS	
π /4 DQPSK	2441	1.125	/	PASS	
	2480	1.128	/	PASS	
	2402	1.157	/	PASS	
8- DPSK	2441	1.158	/	PASS	
	2480	1.153	/	PASS	

Orginal Test data For 20dB bandwidth GFSK:







π /4 DQPSK:







8- DPSK





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5. Carrier Frequency Separation

5.1. Limit

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

5.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The carrier frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW.

5.3. Test Result

EUT: Bluetooth headphone M/N: 180s-BT14-V4.0								
Test date: 2015-	03-15	Test site: RF site	Tested by:	Store				
Mode/Channel	Channel separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz) 2/3 20dB bandwidth	Conclusion				
GFSK	1.014	0.897	0.598	PASS				
π /4 DQPSK	1.002	1.128	0.752	PASS				
8- DPSK	1.014	1.158	0.772	PASS				

Orginal test data for channel separation

GFSK



π /4 DQPSK



8- DPSK



6. Number Of Hopping Channel

6.1. Limit

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

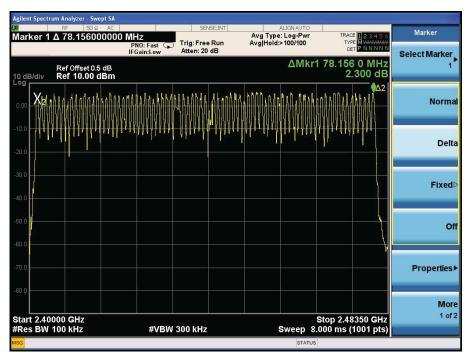
6.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The number of hopping channel was measured by spectrum analyzer with $300 \mathrm{kHz} \ \mathrm{RBW}$ and $1 \mathrm{MHz} \ \mathrm{VBW}$.

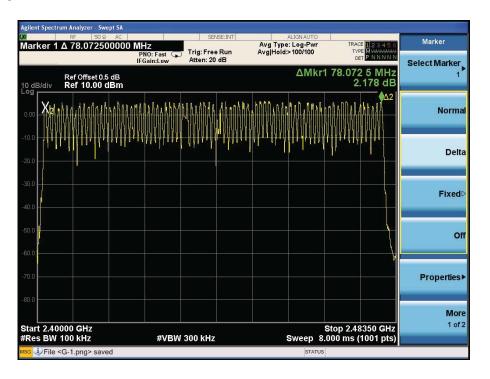
6.3. Test Result

EUT: Bluetooth headphone M/N: 180s-BT14-V4.0							
Test date: 2015-03-15	Test site: RF site	Tested by	y: Store				
Mode	Number of hopping channel	Limit	Conclusion				
GFSK	79	>15	PASS				
π /4 DQPSK	79	>15	PASS				
8- DPSK	79	>15	PASS				

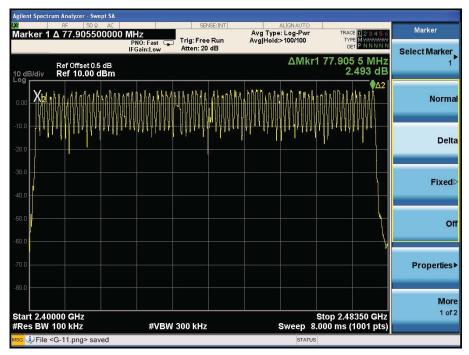
Original test data for hopping channel number GFSK



π /4 DQPSK



8- DQPSK



7. Dwell Time

7.1. Test limit

Please refer section 15.247

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 sec- onds multiplied by the number of hopping channel employed.

7.2. Test Procedure

- 7.2.1. Place the EUT on the table and set it in transmitting mode.
- 7.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 7.2.3. Set center frequency of spectrum analyzer = operating frequency.
- 7.2.4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
- 7.2.5. Repeat above procedures until all frequency measured were complete.

7.3. Test Results

PASS.

Detailed information please see the following page.

EUT: Bluetooth headphone M/N: 180s-BT14-V4.0								
Test date: 201	15-03-15	Test site: RF	est site: RF site Tested by: Store					
Mode	Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Conclusion		
	DH1	2441	0.367	0.235	< 0.4	PASS		
GFSK	DH3 2441		1.617	0.345	< 0.4	PASS		
	DH5	2441	2.864	0.367	< 0.4	PASS		
	DH1	2441	0.374	0.239	< 0.4	PASS		
π /4 DQPSK	DH3	2441	1.620	0.346	< 0.4	PASS		
	DH5	2441	2.832	0.362	< 0.4	PASS		
8 DODGV	DH1	2441	0.376	0.241	< 0.4	PASS		
8- DQPSK	DH3	2441	1.644	0.351	< 0.4	PASS		
	DH5	2441	2.872	0.368	< 0.4	PASS		

Note: 1 A period time = 0.4 (s) * 79 = 31.6(s)

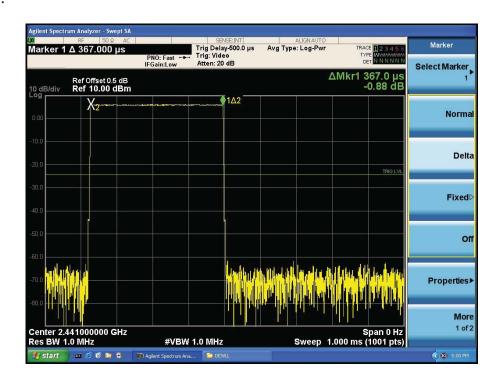
2 DH1 time slot = Pulse Duration * (1600/(1*79)) * A period time

DH3 time slot = Pulse Duration * (1600/(3*79)) * A period time

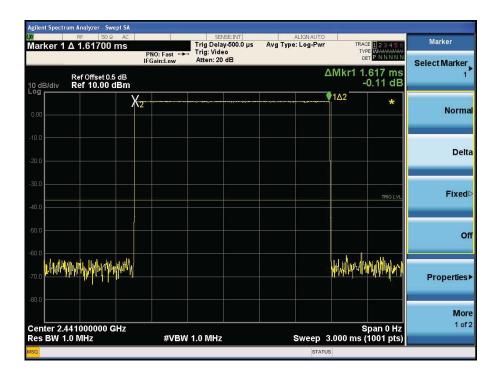
DH5 time slot = Pulse Duration * (1600/(5*79)) * A period time

GFSK

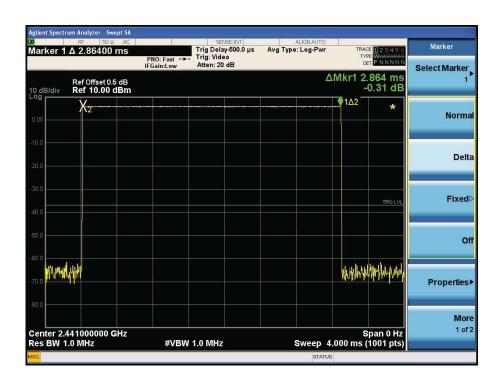
DH1:



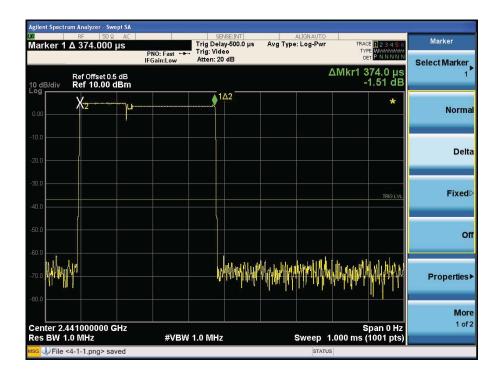
DH3:



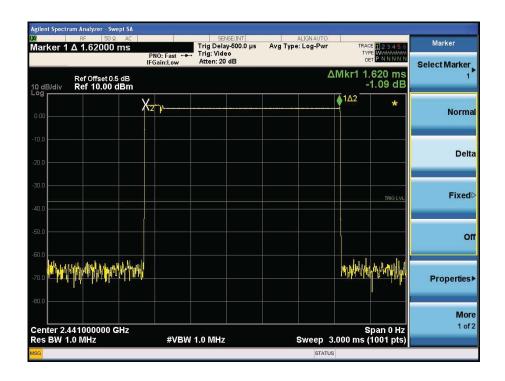
DH5



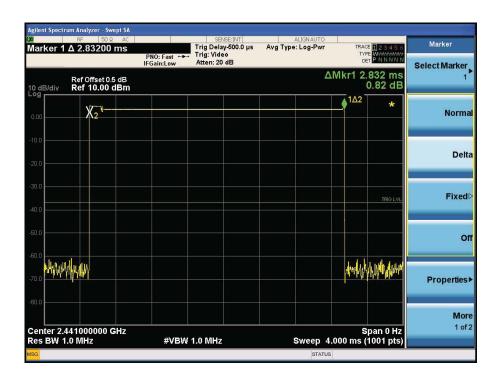
π /4 DQPSK DH1



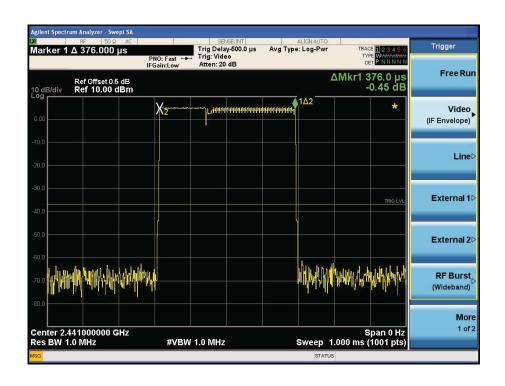
DH3



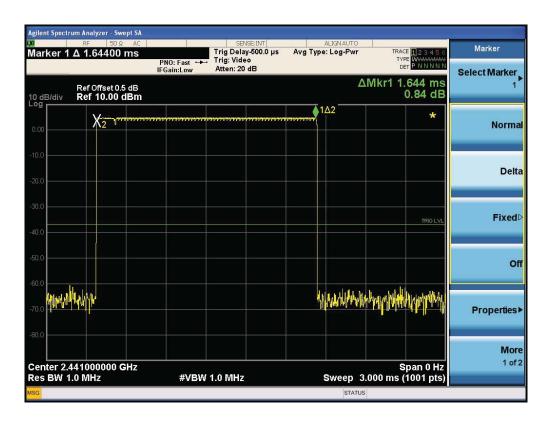
DH5



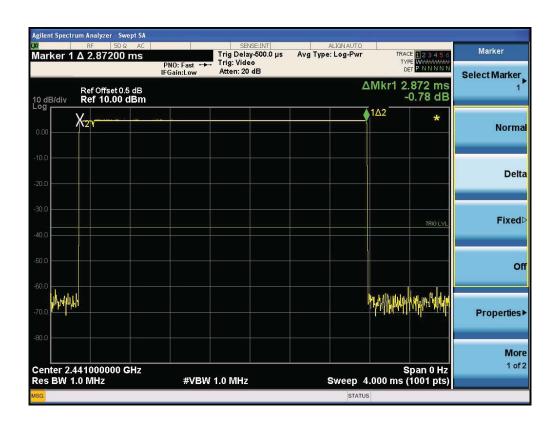
8- DQPSK DH1



DH3



DH5



8. Radiated emissions

8.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

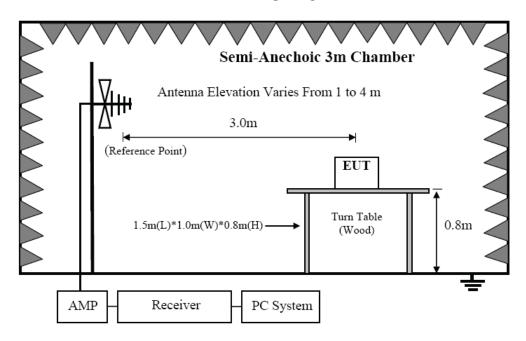
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

15.209 Limit

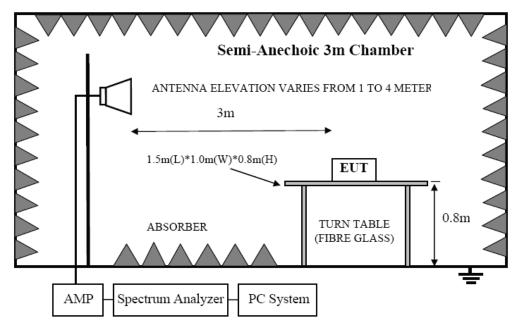
FREQUENCY	DISTANCE	FIELD STRENG	GTHS LIMIT	
MHz	Meters	μV/m	$dB(\mu V)/m$	
0.009-0.490	300	2400/F(KHz)	/	
0.490-1.705	30	24000/F(KHz)	/	
1.705-30	30	30	29.5	
30 ~ 88	3	100	40.0	
88 ~ 216	3	150	43.5	
216 ~ 960	3	200	46.0	
960 ~ 1000	3	500	54.0	
Above 1000	3	74.0 dB(μV)/m (Peak)		
Above 1000	3	54.0 dB(μV)/m (Average)		

8.2. Block Diagram of Test setup

8.2.1. In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



8.2.2. In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and simulator as shown in section 1.4 and 6.1

- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
- (a) Change work frequency or channel of device if practicable.
- (b) Change modulation type of device if practicable.
- (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 2003 on Radiated Emission test.
- (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure. Peak detector is used for both.

8.4. Test Result

We have scanned the 10th harmonic from 9KHz to the EUT. Detailed information please see the following page.

From 9KHz to 30MHz: 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.

From 30MHz to 1000MHz: Conclusion: PASS



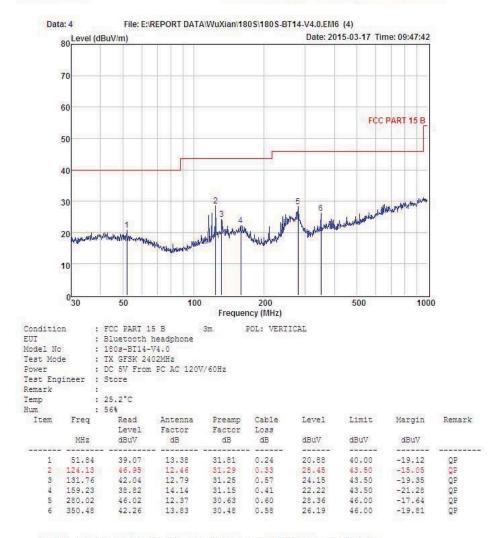
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Remark: Level = Read Level + Antenna Factor - Freamp Factor + Cable Loss



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Website: http://www.a-lab.cn



Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

- 4 -

Remark: All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz was listed in this report.

	1GHz—25GHz Radiated emissison Test result								
EUT	EUT: Bluetooth headphone M/N: 180s-BT14-V4.0								
Pow	er: DC 5.	.0V From P	C AC 120)V/60H	Z				
Test	Test date: 2015-03-17 Test site: 3m Chamber Tested by: Store								
Test	mode: G	FSK Tx CI	H1 2402M	ΙΗz					
Ante	enna pola	rity: Vertica	al						
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804	44.57	33.95	10.18	34.26	54.44	74	20.56	PK
2	4804	32.06	33.95	10.18	34.26	41.93	54	12.07	AV
3	7206	/							
4	9608	/							
5	12010	/							
Ante	enna Pola	rity: Horizo	ontal						
1	4804	43.15	33.95	10.18	34.26	53.02	74	20.98	PK
2	4804	33.37	33.95	10.18	34.26	43.24	54	10.76	AV
3	7206	/							
4	9608	/							
5	12010	/							

Note:

- 1, Measuring frequency from 1GHz to 25GHz
- 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

1GHz—25GH	z Radiated	emissison	Test resul	t

EUT: Bluetooth headphone M/N: 180s-BT14-V4.0

Power: DC 5.0V From PC AC 120V/60Hz

Test date: 2015-03-17 Test site: 3m Chamber Tested by: Store

Test mode: GFSK Tx CH40 2441MHz

Antenna polarity: Vertical

Amer	Antenna polarity. Vertical								
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882	45.08	33.93	10.2	34.29	54.92	74	19.08	PK
2	4882	34.72	33.93	10.2	34.29	44.56	54	9.44	AV
3	7323	/							
4	9764	/							
5	12205	/							
Anter	nna Polari	ty: Horizon	tal						
1	4882	46.37	33.93	10.2	34.29	56.21	74	17.79	PK
2	4882	32.97	33.93	10.2	34.29	42.81	54	11.19	AV
3	7323	/							
4	9764	/					_		

5 Note:

12205

- 1, Measuring frequency from 1GHz to 25GHz
- 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

1GHz—25GHz Radiated 6	emissison	Test resul	t
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EUT: Bluetooth headphone M/N: 180s-BT14-V4.0

Power: DC 5.0V From PC AC 120V/60Hz

Test date: 2015-03-17 Test site: 3m Chamber Tested by: Store

Test mode: GFSK Tx CH79 2480MHz

Antenna polarity: Vertical

	- I								
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960	44.77	33.98	10.22	34.25	54.72	74	19.28	PK
2	4960	32.83	33.98	10.22	34.25	42.78	54	11.22	AV
3	7440	/							
4	9920	/							
5	12400	/							
Ant	enna Pola	arity: Horiz	ontal						
1	4960	45.36	33.98	10.22	34.25	55.31	74	18.69	PK
2	4960	33.45	33.98	10.22	34.25	43.40	54	10.60	AV
3	7440	/							
4	9920	/							
5	12400	/							

Note:

- 1, Measuring frequency from 1GHz to 25GHz
- 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

		1GF	Iz—25Gl	Hz Radi	iated en	nissison Te	st result		
EUT	: Bluetoo	oth headpho	ne		M/N:	180s-BT1	4-V4.0		
Pow	er: DC 5	.0V From P	C AC 120	0V/60H	Z				
Test	date: 20	15-03-17	Test site	: 3m Cl	namber	Tested by	y: Store		
Test	mode:	π /4 DQPSk	Tx CH1	2402N	ſНz				
Ante	enna pola	rity: Vertica	al						
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804	46.48	33.95	10.18	34.26	56.35	74	17.65	PK
2	4804	35.91	33.95	10.18	34.26	45.78	54	8.22	AV
3	7206	/							
4	9608	/							
5	12010	/							
Ante	enna Pola	rity: Horizo	ontal						
1	4804	44.92	33.95	10.18	34.26	54.79	74	19.21	PK
2	4804	33.76	33.95	10.18	34.26	43.63	54	10.37	AV
3	7206	/							
4	9608	/							

5 Note:

12010

- 1, Measuring frequency from 1GHz to 25GHz
- 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

1GHz—25GHz Radiated emissison Test result

EUT: Bluetooth headphone M/N: 180s-BT14-V4.0

Power: DC 5.0V From PC AC 120V/60Hz

Test date: 2015-03-17 Test site: 3m Chamber Tested by: Store

Test mode: $\pi / 4$ DQPSK Tx CH40 2441MHz

Antenna polarity: Vertical

	·· F · · ·	9							
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882	44.75	33.93	10.2	34.29	54.59	74	19.41	PK
2	4882	33.52	33.93	10.2	34.29	43.36	54	10.64	AV
3	7323	/							
4	9764	/							
5	12205	/							
Anter	nna Polari	ty: Horizon	ıtal						
1	4882	45.08	33.93	10.2	34.29	54.92	74	19.08	PK
2	4882	34.17	33.93	10.2	34.29	44.01	54	9.99	AV

5 Note:

3

4

7323

9764

12205

1, Measuring frequency from 1GHz to 25GHz

/

/

- 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

		1GI	Hz—25G	Hz Rad	iated en	nissison Tes	st result		
EUT: Bluetooth headphone M/N: 180s-BT14-V4.0									
Pow	er: DC 5	.0V From F	PC AC 12	0V/60E	I z				
Test date: 2015-03-17 Test site: 3m Chamber Tested by: Store									
Test	t mode:	π /4 DQPSI	K Tx Cl	H79 248	80MHz				
Ant	enna pola	rity: Vertic	al						
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960	44.12	33.98	10.22	34.25	54.07	74	19.93	PK
2	4960	32.95	33.98	10.22	34.25	42.90	54	11.10	AV
3	7440	/							
4	9920	/							
5	12400	/							
Ant	enna Pola	arity: Horiz	ontal						
1	4960	45.01	33.98	10.22	34.25	53.96	74	20.04	PK
2	4960	33.46	33.98	10.22	34.25	43.41	54	10.59	AV
3	7440	/							
4	9920	/							
5	12400	/							
3 T		·	·		·	·		·	

Note:

- 1, Measuring frequency from 1GHz to 25GHz
- 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.