



RADIO TEST REPORT

Report No: STS1506030F02

Issued for

Shenzhen Joway Power Supply Co., Ltd.

Bldg.D. Dejin Industrial Park Second Zone, Fuyuan 1st Rd., Fuyong Town, Bao'an District, Shenzhen, China

Product Name:	Bluetooth Stereo Earphone
Brand Name:	JOWAY
Model No.:	H-08
Series Model:	N/A
FCC ID:	2AEZ4JOWAYH-08
Test Standard:	FCC Part 15.247

Test pample.

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TEST RESULT CERTIFICATION

Applicant's name S	Shenzhen Joway	/ Power	Supply	Co.,	Ltd.
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Address · Bldg.D. Dejin Industrial Park Second Zone, Fuyuan 1st Rd.,

Fuyong Town, Bao'an District, Shenzhen, China

Manufacture's Name Shenzhen Joway Power Supply Co., Ltd.

Address Bldg.D. Dejin Industrial Park Second Zone, Fuyuan 1st Rd.,

Fuyong Town, Bao'an District, Shenzhen, China

Product description

Product name...... Bluetooth Stereo Earphone

Model and/or type reference : H-08

Serial Model N/A

Standards FCC Part15.247

Test procedure ANSI C63.10-2013

This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test:

Date (s) of performance of tests................ 05 June. 2015 ~10 June. 2015

Date of Issue...... 12 June, 2015

Test Result..... Pass

Testing Engineer : m

(Jin Ming)

Technical Manager:

(Vita Li)

Authorized Signatory : $\downarrow \chi_{\gamma}$

(Bovey Yang)



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Power Spectral Density	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,

Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649;

FCC Registration No.: 842334; IC Registration No.: 12108A-1

1.2 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 % \circ

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.70dB
4	Spurious emissions,conducted	±1.19dB
5	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
6	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
7	All emissions,radiated(>1G)	±3.03dB
8	Temperature	±0.5°C
9	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Bluetooth Stereo Ea	rphone	
Trade Name	JOWAY		
Model Name	H-08		
Serial Model	N/A		
Model Difference	N/A		
	The EUT is a Blueto	ooth Stereo Earphone	
	Operation Frequency:	2402~2480 MHz	
	Modulation Type:	GFSK	
Product Description	Radio Technology	BLE	
, , , , , , , , , , , , , , , , , , ,	Number Of Channel 40		
	Antenna Designation:	Please see Note 3.	
	Antenna Gain (dBi)	0 dbi	
Channel List	Please refer to the N	Note 2.	
Б. "	Rated Voltage: 3.7V		
Battery	capacity :90mAh		
Hardware version number			
Software versioning number			
Connecting I/O Port(s)	Please refer to the U	Jser's Manual	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2

	Channel List						
Channel	Frequenc y (MHz)	Channel	Frequenc y (MHz)	Channel	Frequenc y (MHz)	Channel	Frequency (MHz)
01	2402	11	2422	21	2442	31	2462
02	2404	12	2424	22	2444	32	2464
03	2406	13	2426	23	2446	33	2466
04	2408	14	2428	24	2448	34	2468
05	2410	15	2430	25	2450	35	2470
06	2412	16	2432	26	2452	36	2472
07	2414	17	2434	27	2454	37	2474
08	2416	18	2436	28	2456	38	2476
09	2418	19	2438	29	2458	39	2478
10	2420	20	2440	30	2460	40	2480

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
Α	N/A	N/A	Built-in Antenna	N/A	0	BT 4.0 ANT



2.2 DESCRIPTION OF TEST MODES

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 above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX CH1/CH20/CH40
Mode 2	Link Mode

For Conducted Emission		
Final Test Mode	Description	
Mode 2	Link Mode	

For Radiated Emission		
Final Test Mode	Description	
Mode 1	TX CH1/CH20/CH40	
Mode 2	Link Mode	

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

E-1 EUT





2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Bluetooth Stereo Earphone	JOWAY	H-08	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	unshielded	NO	34cm	N/A
·				

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2014.10.25	2015.10.24
Test Receiver	R&S	ESCI	101427	2014.10.25	2015.10.24
Bilog Antenna	TESEQ	CBL6111D	34678	2014.11.25	2015.11.24
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2015.03.06	2016.03.05
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.06.04	2016.06.03
PreAmplifier	Agilent	8449B	60538	2014.10.25	2015.10.24
Loop Antenna	ARA	PLA-1030/B	1029	2015.06.04	2016.06.03
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2014.10.25	2015.10.24

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	102086	2014.11.20	2015.11.19
LISN	R&S	ENV216	101242	2014.10.25	2015.10.24



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&207(a) limit in the table below has to be followed.

FDEOLIENCY (MU-)	Class B	Standard	
FREQUENCY (MHz)	Quasi-peak Average		
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR
0.0 00.0	00.00	1 00.00	0.0110

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		

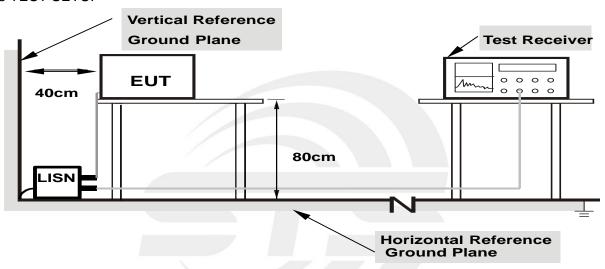


3.2 TEST PROCEDURE

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- a. The EUT was placed 0.4 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.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80

from other units and other metal planes

3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



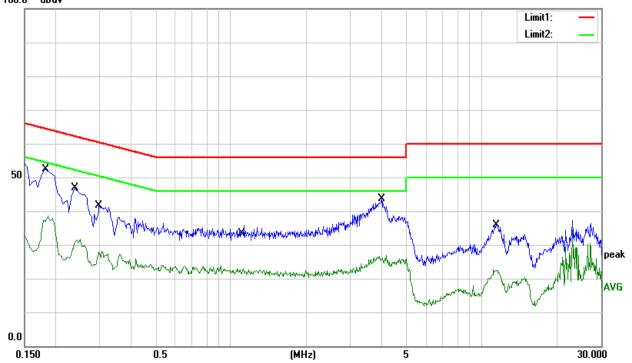
3.5 TEST RESULTS

EUT:	Bluetooth Stereo Earphone	Model Name.:	H-08
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Test Voltage:	DC 3.7V	Test Mode:	Mode 2

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1817	39.09	10.00	49.09	64.41	-15.32	QP
0.1817	25.86	10.00	35.86	54.41	-18.55	AVG
0.2376	31.51	9.96	41.47	62.18	-20.71	QP
0.2376	19.57	9.96	29.53	52.18	-22.65	AVG
0.3006	26.25	9.90	36.15	60.23	-24.08	QP
0.3006	16.40	9.90	26.30	50.23	-23.93	AVG
1.1057	19.29	9.91	29.20	56.00	-26.80	QP
1.1057	11.41	9.91	21.32	46.00	-24.68	AVG
3.9886	25.82	10.19	36.01	56.00	-19.99	QP
3.9886	13.03	10.19	23.22	46.00	-22.78	AVG
11.4894	19.40	10.37	29.77	60.00	-30.23	QP
11.4894	10.44	10.37	20.81	50.00	-29.19	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.



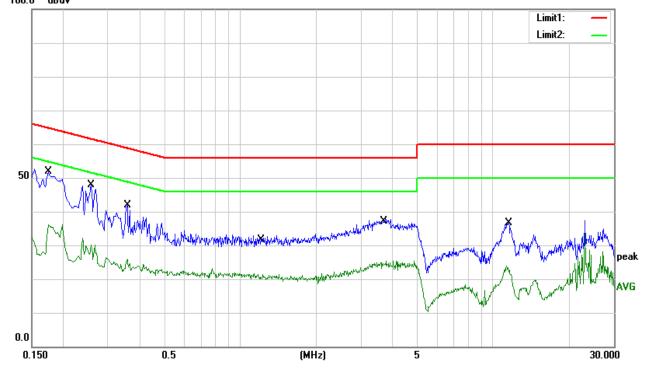
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EUT:	Bluetooth Stereo Earphone	Model Name.:	H-08
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
Test Voltage:	DC 3.7V	Test Mode:	Mode 2

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1756	36.89	10.00	46.89	64.69	-17.80	QP
0.1756	22.45	10.00	32.45	54.69	-22.24	AVG
0.2584	32.14	9.94	42.08	61.48	-19.40	QP
0.2584	18.37	9.94	28.31	51.48	-23.17	AVG
0.3581	26.11	9.96	36.07	58.77	-22.70	QP
0.3581	14.15	9.96	24.11	48.77	-24.66	AVG
1.2148	16.98	10.00	26.98	56.00	-29.02	QP
1.2148	10.11	10.00	20.11	46.00	-25.89	AVG
3.6604	21.76	10.19	31.95	56.00	-24.05	QP
3.6604	13.66	10.19	23.85	46.00	-22.15	AVG
11.4851	20.33	10.30	30.63	60.00	-29.37	QP
11.4851	11.21	10.30	21.51	50.00	-28.49	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier. 100.0 dBuV





4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

6dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&205(a), then the Part15.247&209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

Elivirio di Tanzina di Eliviro di Carta Mendo della Propini di Pro					
Frequencies	Field Strength	Measurement Distance			
(MHz)	(micorvolts/meter)	(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			

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

	Class B (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic(Peak/AV)
RB / VB (emission in restricted	1 MHz / 1 MHz A\/ 1 MHz / 10Hz
band)	1 MHz / 1 MHz, AV=1 MHz / 10Hz

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP





4.2 TEST PROCEDURE

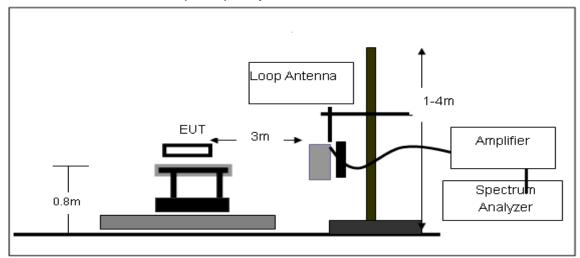
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

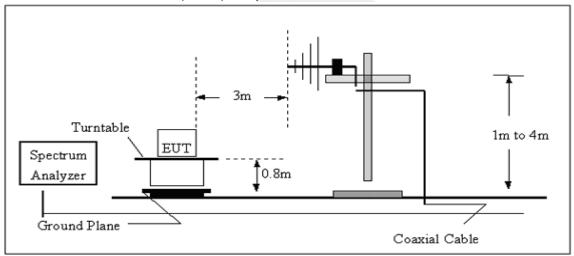


4.3 TEST SETUP

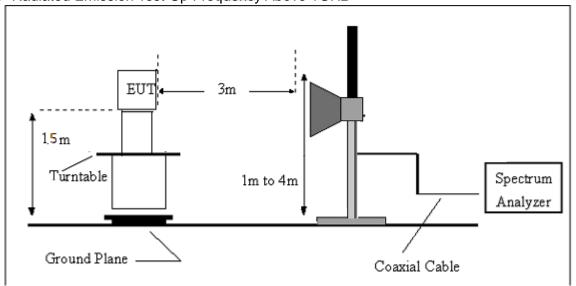
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz





4.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

4.5 TEST RESULTS

(Between 9KHz - 30 MHz)

EUT:	Bluetooth Stereo Earphone	Model Name. :	H-08
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	Link mode	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



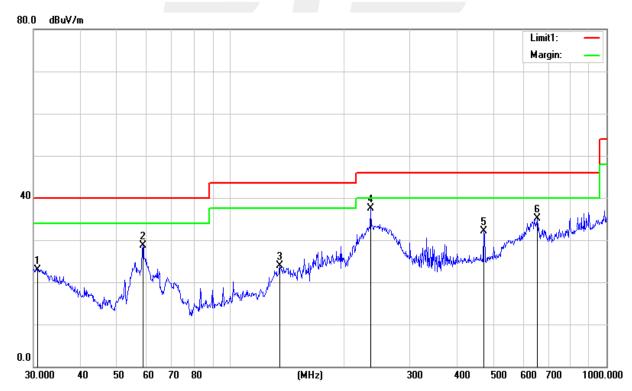
Between 30-1000MHz

EUT:	Bluetooth Stereo Earphone	Model Name.:	H-08
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	DC 3.7V	Test Mode:	Mode 2

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
30.7454	4.65	18.31	22.96	40.00	-17.04	QP
58.6126	23.14	5.56	28.70	40.00	-11.30	QP
135.5062	12.01	11.97	23.98	43.50	-19.52	QP
235.8163	26.19	11.31	37.50	46.00	-8.50	QP
472.1760	12.28	19.73	32.01	46.00	-13.99	QP
654.2318	12.13	23.02	35.15	46.00	-10.85	QP

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.





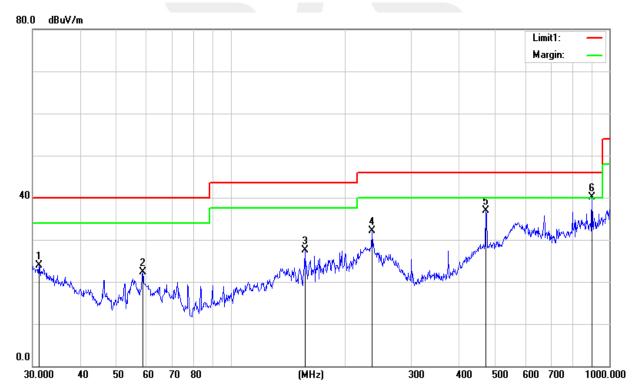
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EUT:	Bluetooth Stereo Earphone	Model Name.:	H-08
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	DC 3.7V	Test Mode:	Mode 2

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
31.1798	5.75	18.08	23.83	40.00	-16.17	QP
58.6126	16.67	5.56	22.23	40.00	-17.77	QP
157.0073	15.83	11.75	27.58	43.50	-15.92	QP
236.6447	20.73	11.41	32.14	46.00	-13.86	QP
472.1760	17.27	19.73	37.00	46.00	-9.00	QP
900.1473	13.57	26.61	40.18	46.00	-5.82	QP

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.







Above 1000 MHz

EUT:	Bluetooth Stereo Earphone	Model Name :	H-08
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBµV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment		
	Low Channel (GFSK/2402 MHz)								
4804.20	65.80	-3.62	62.18	74	-11.82	PK	Vertical		
4804.22	46.80	-3.62	43.18	54	-10.82	AV	Vertical		
7206.13	61.93	-0.9	61.03	74	-12.97	PK	Vertical		
7206.12	41.28	-0.9	40.38	54	-13.62	AV	Vertical		
4804.00	61.70	-3.65	58.05	74	-15.95	PK	Horizontal		
4803.99	43.91	-3.65	40.26	54	-13.74	AV	Horizontal		
	,	Mid	Channel (GFS	SK/2440 MHz)					
4882.08	65.07	-3.65	61.42	74	-12.58	PK	Vertical		
4882.07	49.04	-3.65	45.39	54	-8.61	AV	Vertical		
7320.21	60.70	-0.83	59.87	74	-14.13	PK	Vertical		
7320.21	43.73	-0.83	42.9	54	-11.1	AV	Vertical		
4882.18	61.35	-3.68	57.67	74	-16.33	PK	Horizontal		
4882.15	45.07	-3.68	41.39	54	-12.61	AV	Horizontal		
		High	Channel (GF	SK/2480 MHz))				
4960.25	60.96	-3.59	57.37	74	-16.63	PK	Vertical		
4960.30	45.01	-3.59	41.42	54	-12.58	AV	Vertical		
7440.26	60.73	-0.73	60	74	-14	PK	Vertical		
7440.31	45.12	-0.73	44.39	54	-9.61	AV	Vertical		
4960.33	61.05	-3.59	57.46	74	-16.54	PK	Horizontal		
4960.31	45.30	-3.59	41.71	54	-12.29	AV	Horizontal		
Remark:									

Remark:

^{1.} Factor = Antenna Factor + Cable Loss - Pre-amplifier.



4.6 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT:	Bluetooth Stereo Earphone	Model Name :	H-08
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBµV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
			GFSI	K			
2399.9	67.85	-12.99	54.86	74	-19.14	PK	Vertical
2399.9	53.65	-12.99	40.66	54	-13.34	AV	Vertical
2399.9	68.92	-12.99	55.93	74	-18.07	PK	Horizontal
2399.9	53.10	-12.99	40.11	54	-13.89	AV	Horizontal
2483.6	69.72	-12.78	56.94	74	-17.06	PK	Vertical
2483.6	52.78	-12.78	40	54	-14	AV	Vertical
2483.6	70.04	-12.78	57.26	74	-16.74	PK	Horizontal
2483.6	52.71	-12.78	39.93	54	-14.07	AV	Horizontal

Remark:

Low measurement frequencies is range from 2310 to 2400 MHz, high measurement frequencies is range from 2483.5 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2310-2400 MHz and 2483.5-2500 MHz.

^{1.} Factor = Antenna Factor + Cable Loss – Pre-amplifier.



5. CONDUCTED SPURIOUS EMISSIONS

5.1 REQUIREMENT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.2 TEST PROCEDURE

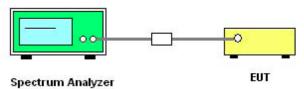
According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting	
Detector	Peak	
Start/Stan Fraguenay	Lower Band Edge: 2310 – 2404 MHz	
Start/Stop Frequency	Upper Band Edge: 2478 – 2500 MHz	
RB / VB (emission in restricted band)	100 KHz/300 KHz	
Trace-Mode:	Max hold	

5.3 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

5.4 EUT OPERATION CONDITIONS

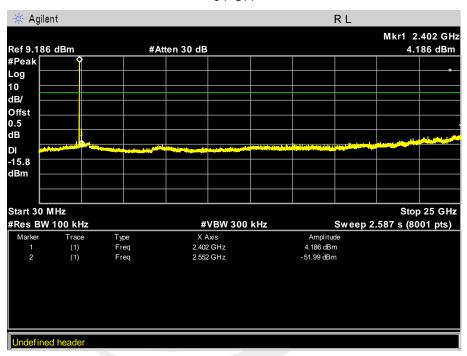
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.5 TEST RESULTS

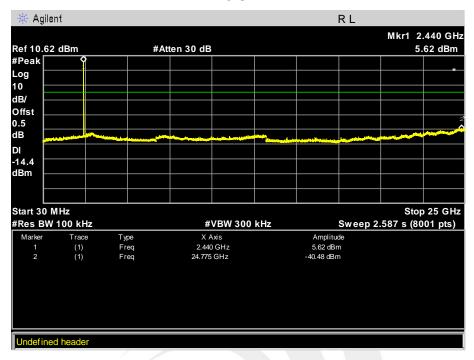
EUT:	Bluetooth Stereo Earphone	Model Name :	H-08
Temperature :	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH01, CH20, CH40		

01 CH

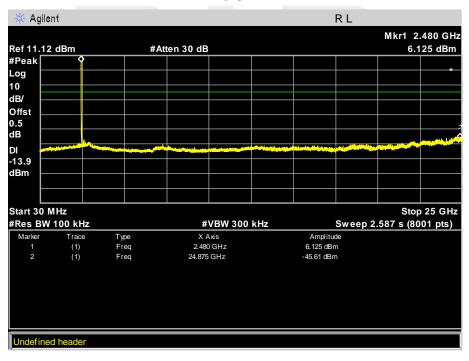




20 CH

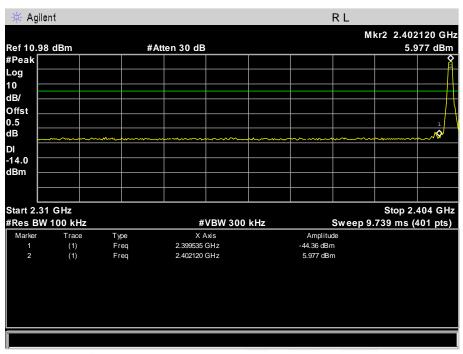


40 CH

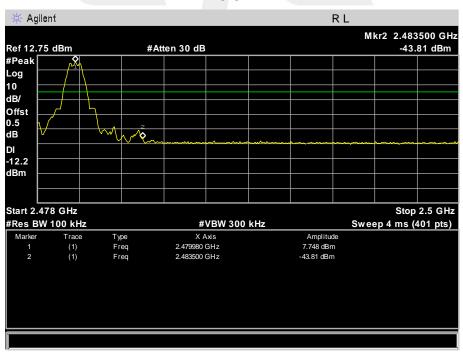




01 CH



40 CH







6. POWER SPECTRAL DENSITY TEST

6.1 APPLIED PROCEDURES / LIMIT

••••••	3.174 T LIED T ROOLDORLO / LIMIT				
	FCC Part15 (15.247), Subpart C				
Section Test Item Limit Frequency Range (MHz) Resul				Result	
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW ≥ 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

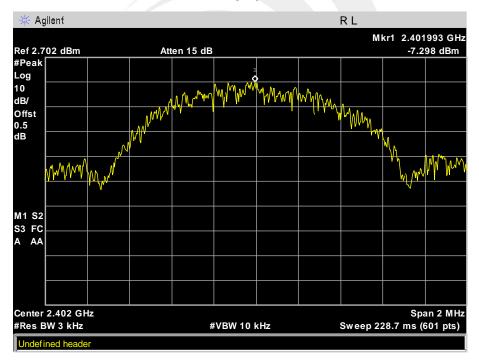


6.5 TEST RESULTS

EUT:	Bluetooth Stereo Earphone	Model Name :	H-08
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH01, CH20, CH40		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2402 MHz	-7.298	8	PASS
2440 MHz	-5.971	8	PASS
2480 MHz	-5.383	8	PASS

TX CH01

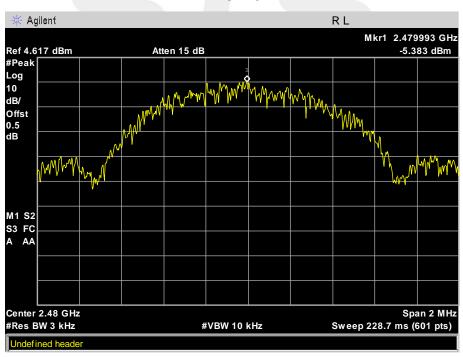




TX CH20



TX CH40







7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 d B relative to the maximum level measured in the fundamental emission.

7.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

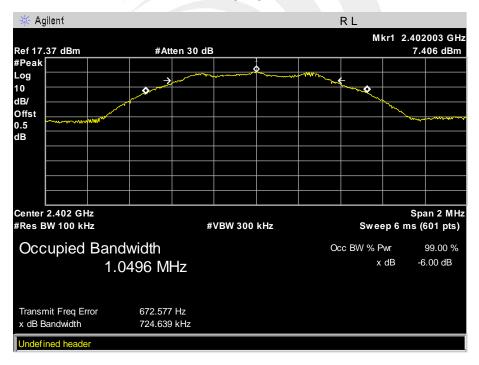


7.5 TEST RESULTS

EUT:	Bluetooth Stereo Earphone	Model Name :	H-08
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH01, CH20, CH40		

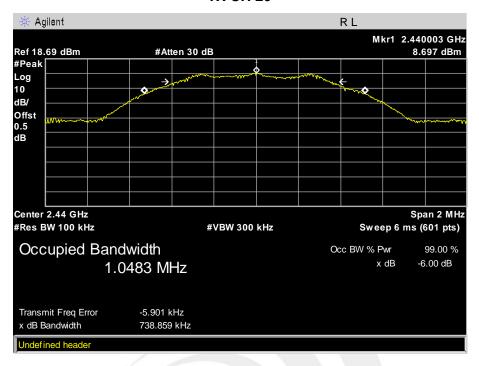
Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2402 MHz	0.724	>=500KHz	PASS
2440 MHz	0.738	>=500KHz	PASS
2480 MHz	0.720	>=500KHz	PASS

TX CH 01

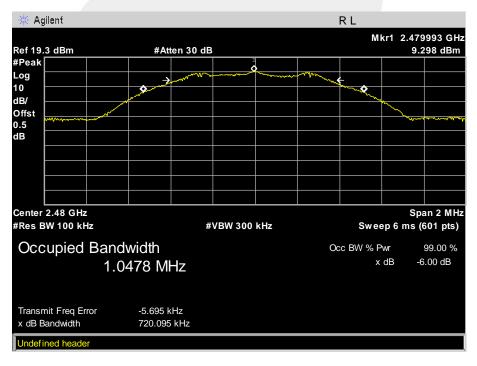




TX CH 20



TX CH 40





8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS		

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: GFSK(1Mbps):RBW= 1MHz, VBW= 3MHz, Sweep time = Auto.

8.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

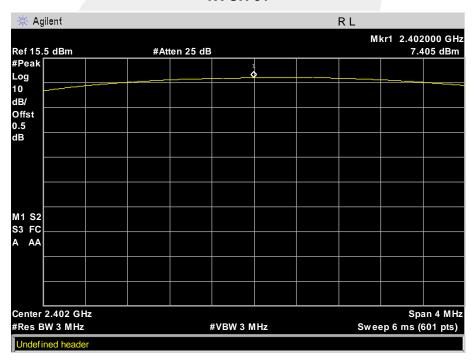


8.5 TEST RESULTS

EUT:	Bluetooth Stereo Earphone	Model Name :	H-08
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH01, CH20, CH40		

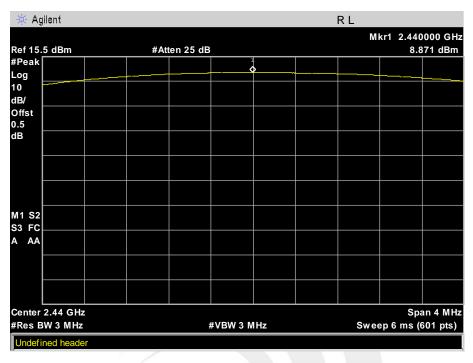
TX Mode					
Test Channe	Frequency	Peak Conducted Output Power	LIMIT		
	(MHz)	(dBm)	dBm		
CH01	2402	7.41	30		
CH20	2440	8.87	30		
CH40	2480	9.59	30		

TX CH 01

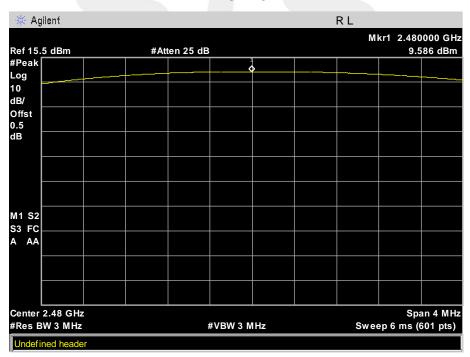




TX CH 20



TX CH 40





9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

9.2 EUT ANTENNA

The EUT antenna is permanent attach Antenna. It comply with the standard requirement.





Radiated Measurement Photos







Conducted Measurement Photos



* * * * END OF THE REPORT * * * *