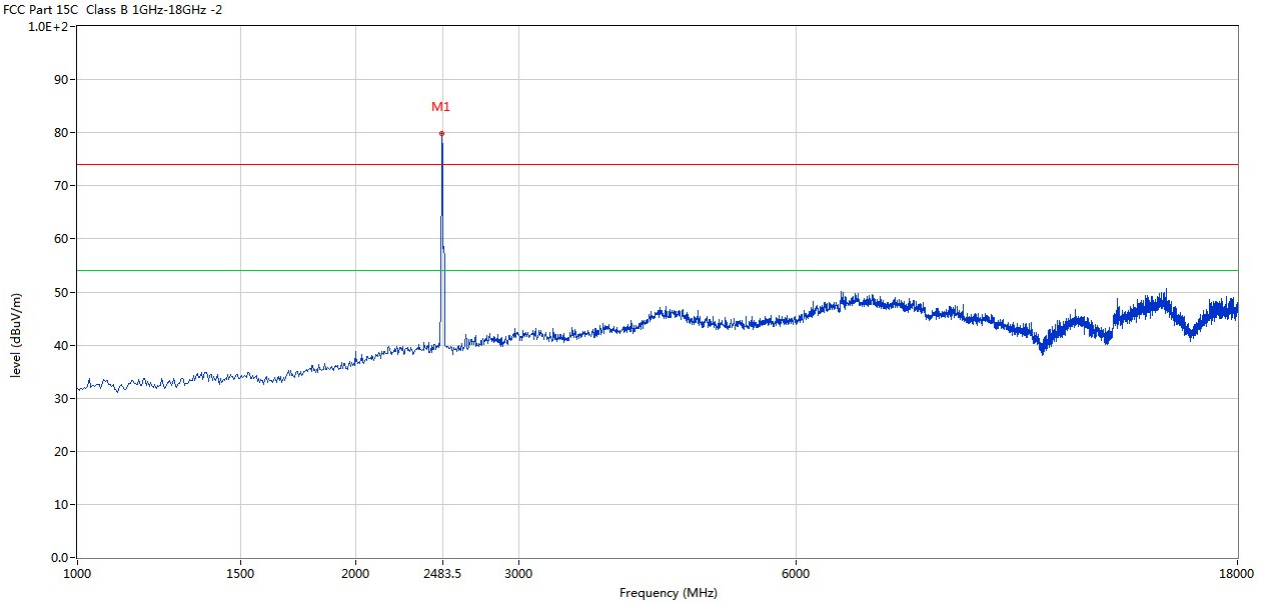
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	79.79	-3.57	114.0	-34.21	Peak	207.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

(2) Margin=Emission-Limits

(3) According to section 15.35(b), the peak limit is 20dB higher than the average limit

(4) For test purpose, keep EUT continuous transmitting

(5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.

(6) the measured PK value less than the AV limit.

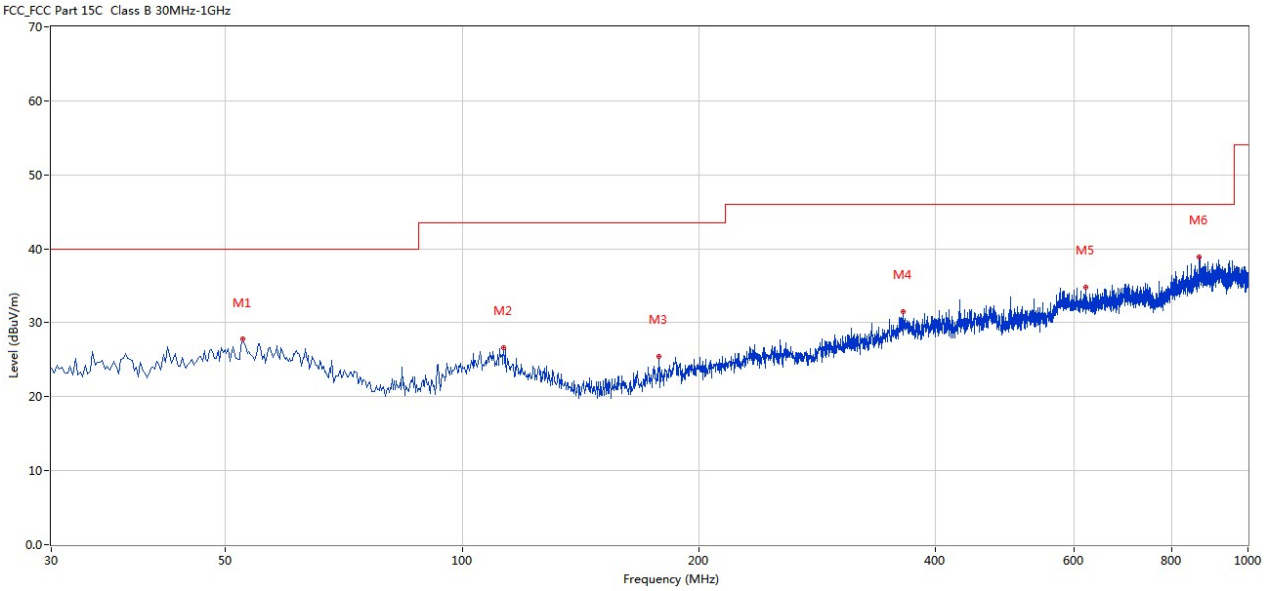
B. **General Radiated Emission Data**

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



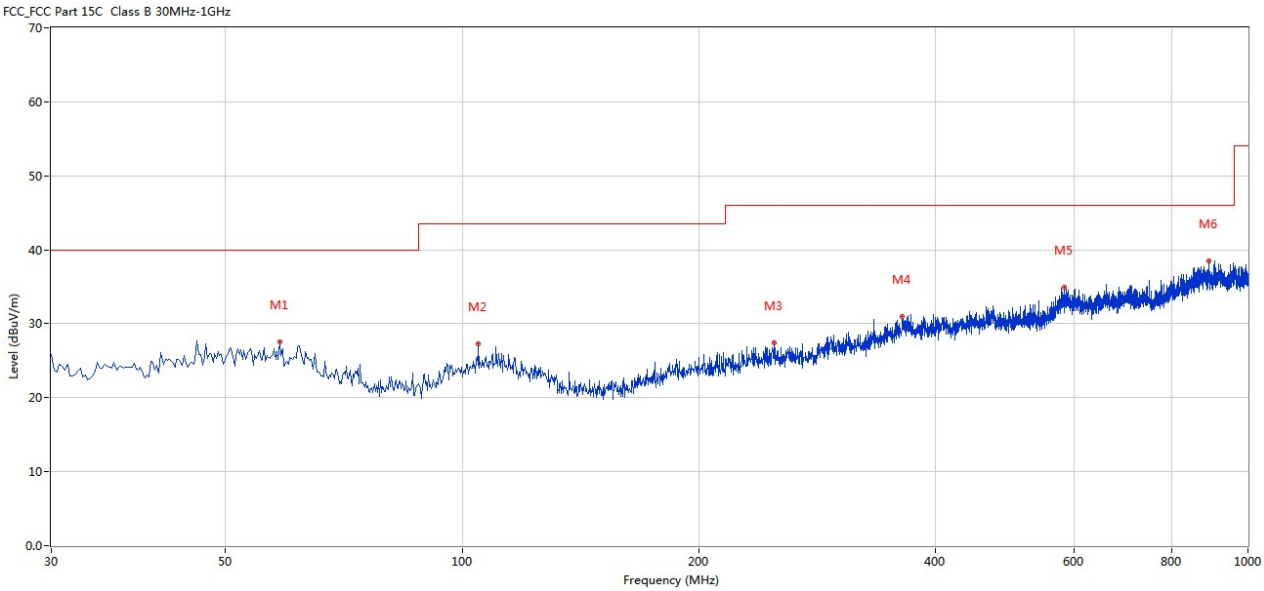
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.547	27.75	-4.94	40.0	12.25	Peak	260.00	100	Horizontal	Pass
2	112.914	26.66	-6.33	43.5	16.84	Peak	265.00	100	Horizontal	Pass
3	177.888	25.50	-8.23	43.5	18.00	Peak	170.00	100	Horizontal	Pass
4	363.597	31.50	-1.87	46.0	14.50	Peak	252.00	100	Horizontal	Pass
5	622.522	34.75	1.54	46.0	11.25	Peak	159.00	100	Horizontal	Pass
6	867.871	38.90	4.86	46.0	7.10	Peak	339.00	100	Horizontal	Pass

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	58.608	27.58	-5.11	40.0	12.42	Peak	270.00	100	Vertical	Pass
2	104.914	27.31	-6.23	43.5	16.19	Peak	216.00	100	Vertical	Pass
3	249.650	27.47	-5.09	46.0	18.53	Peak	228.00	100	Vertical	Pass
4	363.354	30.93	-1.86	46.0	15.07	Peak	85.00	100	Vertical	Pass
5	584.216	34.95	1.69	46.0	11.05	Peak	298.00	100	Vertical	Pass
6	890.902	38.48	4.89	46.0	7.52	Peak	30.00	100	Vertical	Pass

7. Band Edge

7.1 Test Method and test Procedure:

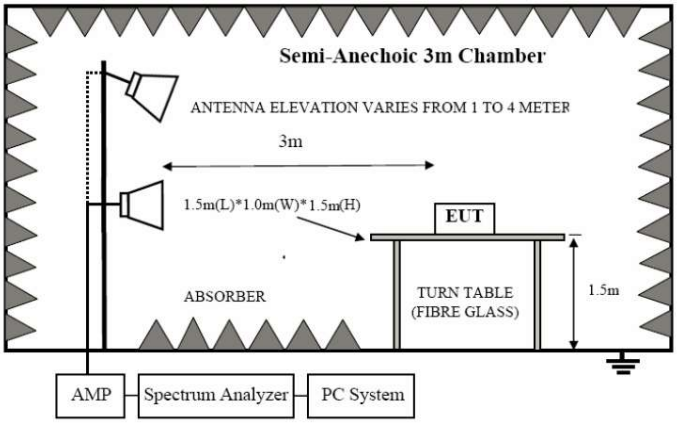
(1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189

(2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.

(3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

(4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

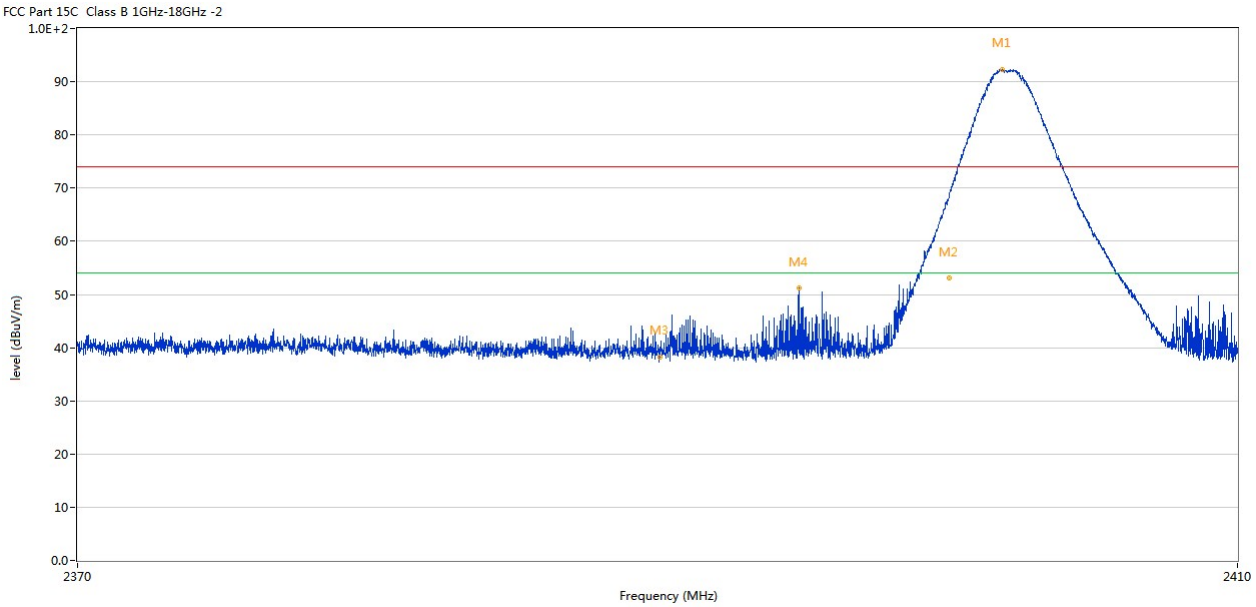
Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

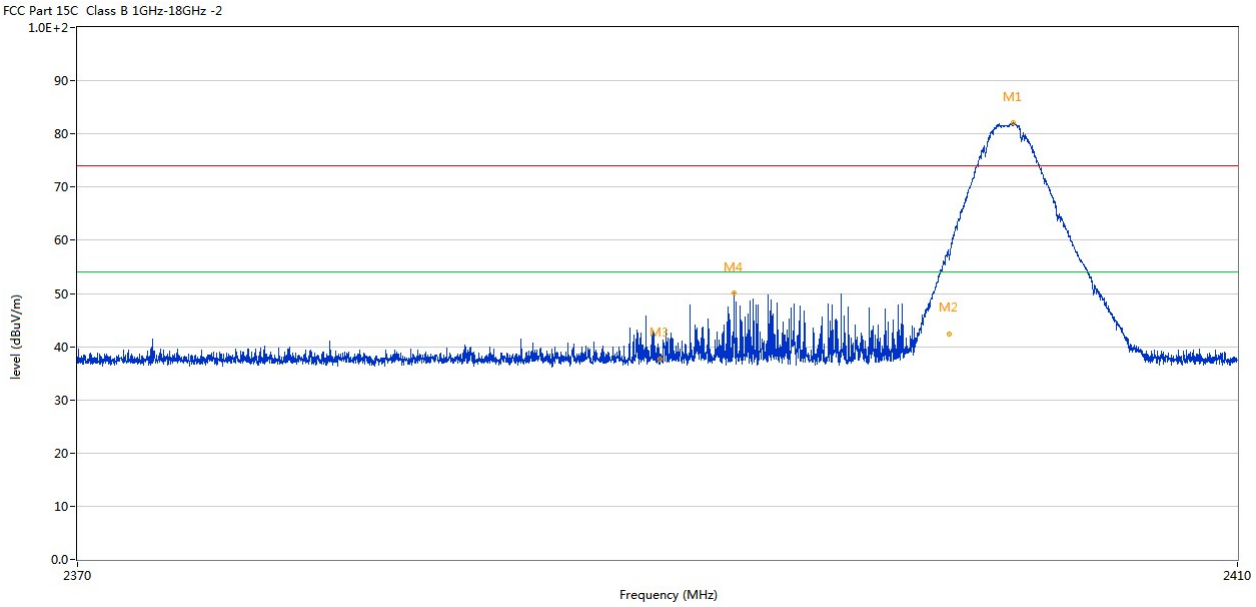
7.6 Test Result

Product:	Wireless Earphone	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



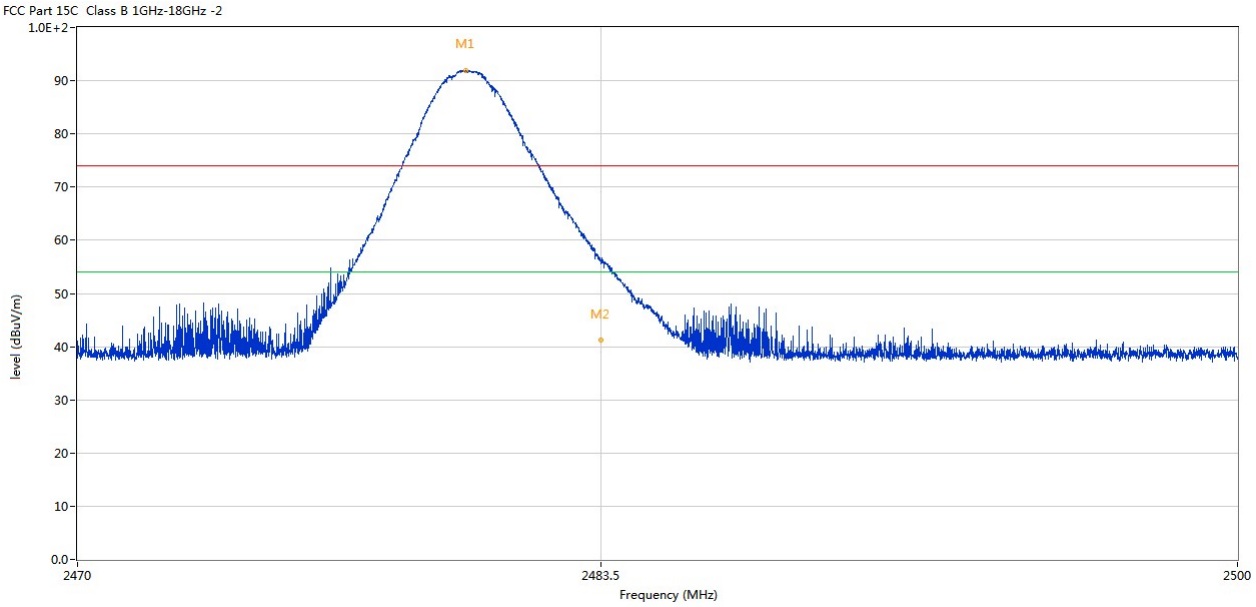
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.822	92.31	-3.57	74.0	18.31	Peak	175.00	100	Horizontal	N/A
2	2400.000	68.13	-3.57	74.0	-5.87	Peak	172.78	100	Horizontal	Pass
2**	2400.000	53.17	-3.57	54.0	-0.83	AV	172.78	100	Horizontal	Pass
3	2390.000	38.25	-3.53	74.0	-35.75	Peak	149.50	100	Horizontal	Pass
4	2394.794	51.19	-3.55	74.0	-22.81	Peak	150.00	100	Horizontal	Pass

Product:	Wireless Earphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



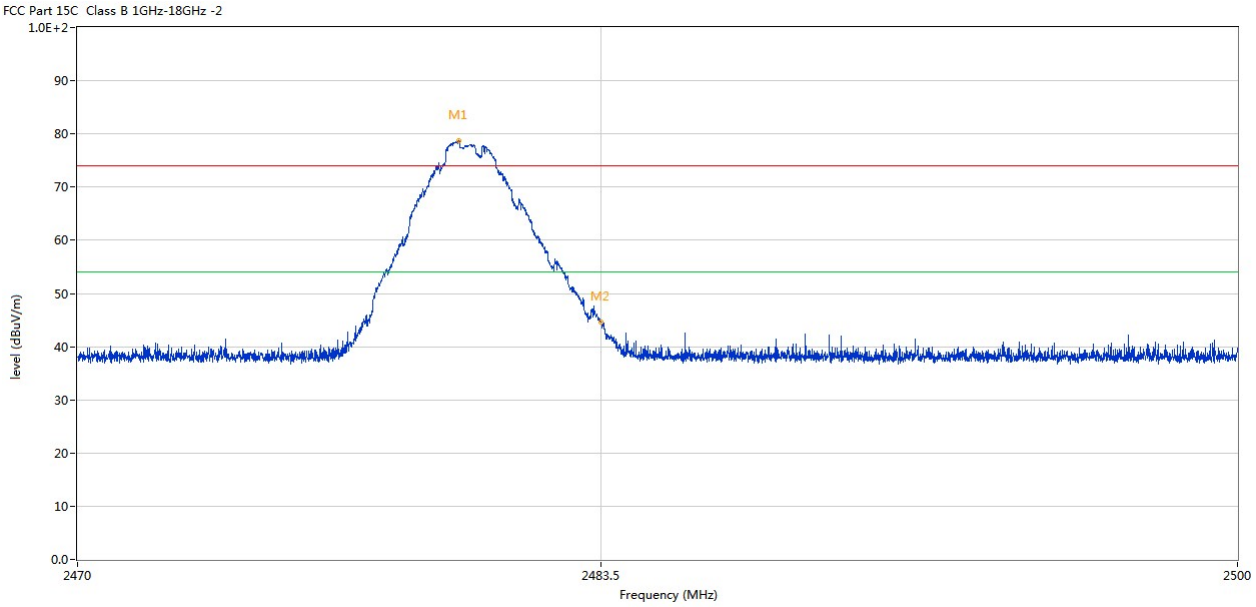
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.222	82.02	-3.57	74.0	8.02	Peak	182.00	100	Vertical	N/A
2	2400.000	57.09	-3.57	74.0	-16.91	Peak	255.00	100	Vertical	Pass
2**	2400.000	42.30	-3.57	54.0	-11.70	AV	255.00	100	Vertical	Pass
3	2390.000	37.69	-3.53	74.0	-36.31	Peak	215.50	100	Vertical	Pass
4	2392.554	50.01	-3.54	74.0	-23.99	Peak	336.00	100	Vertical	Pass

Product:	Wireless Earphone	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.002	91.87	-3.57	74.0	17.87	Peak	185.00	100	Horizontal	N/A
2	2483.500	55.81	-3.57	74.0	-18.19	Peak	192.86	100	Horizontal	Pass
2**	2483.500	41.29	-3.57	54.0	-12.71	AV	192.86	100	Horizontal	Pass

Product:	Wireless Earphone	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.830	78.64	-3.57	74.0	4.64	Peak	345.00	100	Vertical	N/A
2	2483.500	44.55	-3.57	74.0	-29.45	Peak	350.00	100	Vertical	Pass

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. The two modulation modes of GFSK, Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

8.0 Antenna Requirement

Applicable Standard

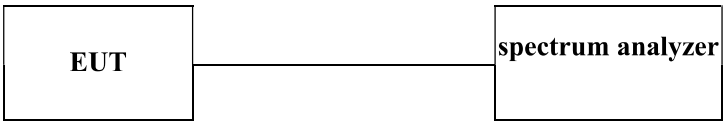
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a Chip antenna with gain 2.5dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

9.0 20dB Bandwidth Measurement

Test Configuration



Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

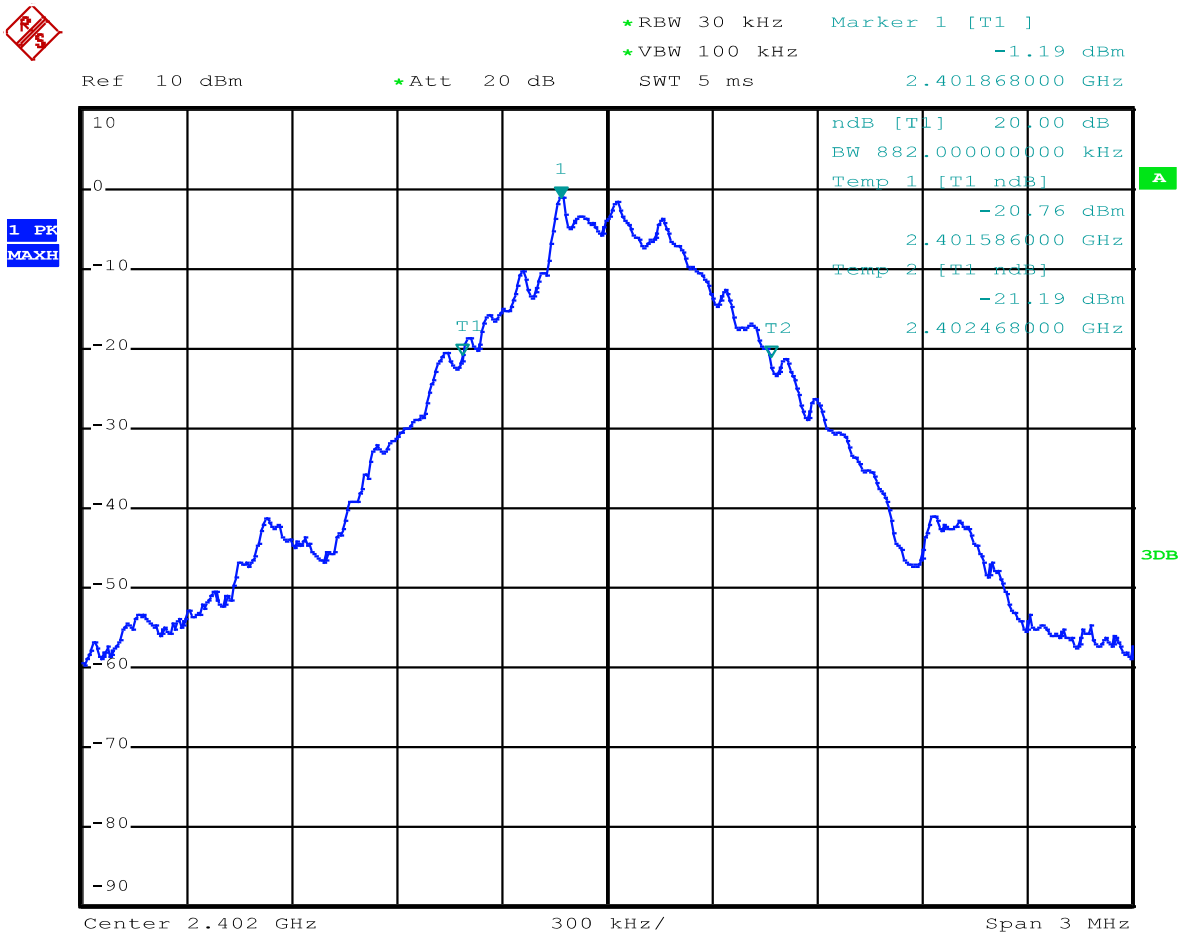
The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Limit

N/A

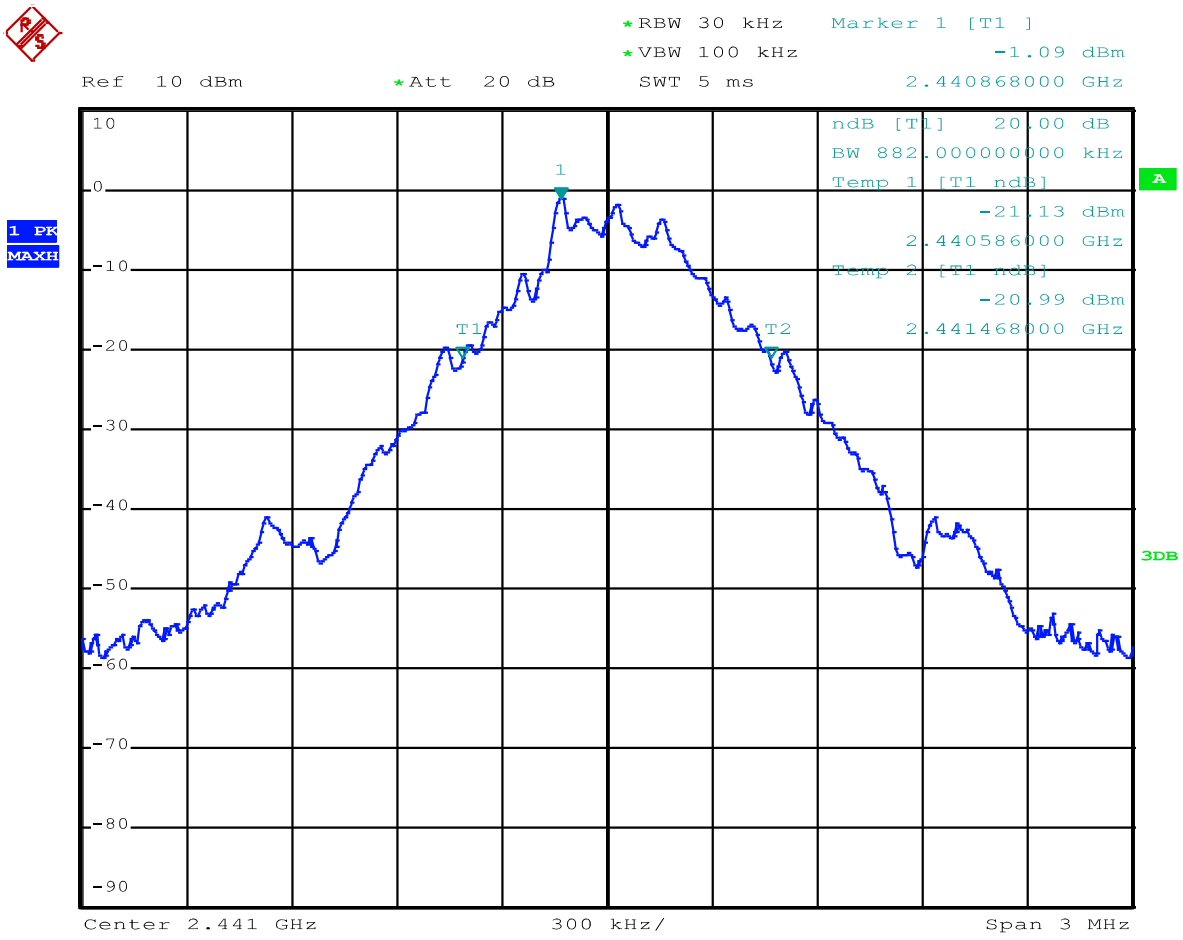
Test Result

GFSK			
Product:	Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	882kHz	--	--



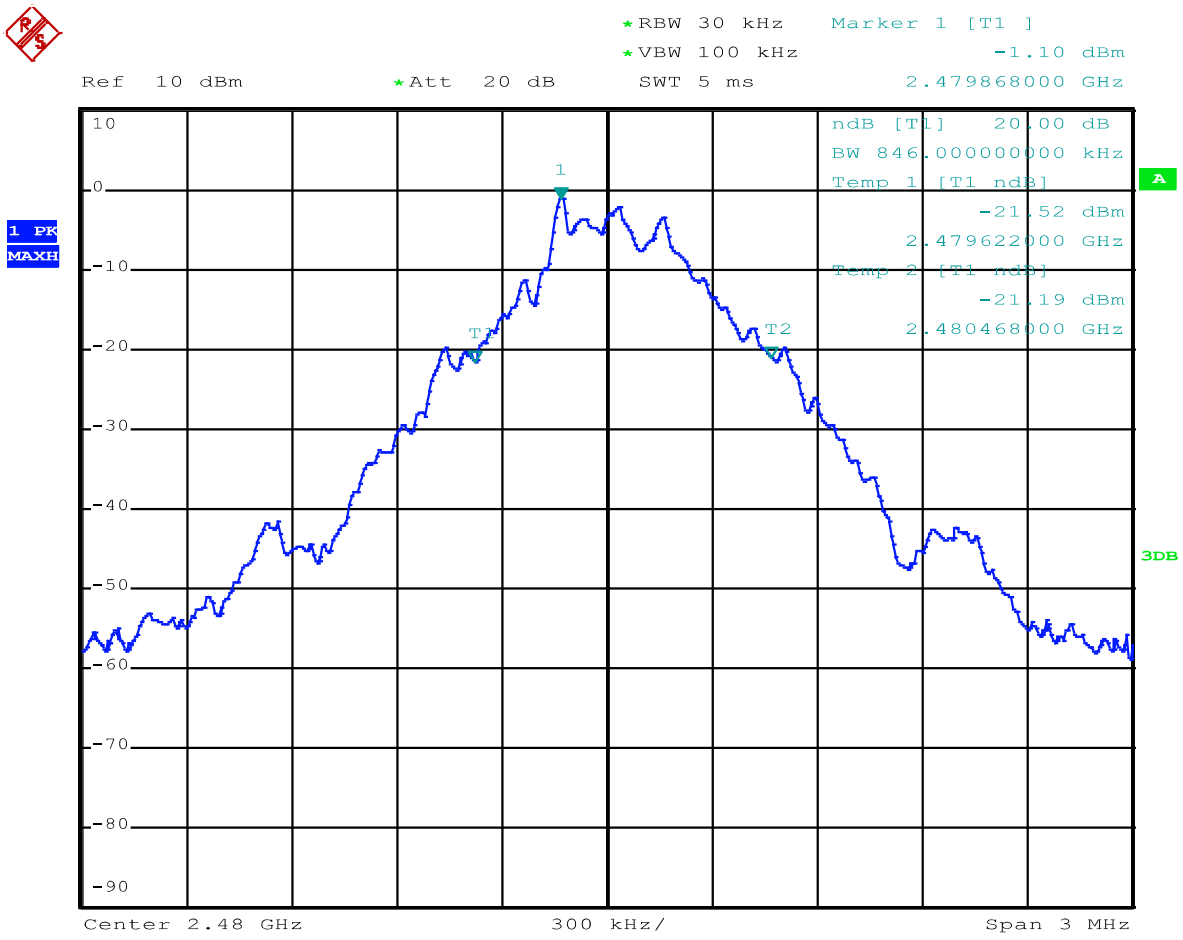
Date: 18.MAR.2025 11:40:30

GFSK			
Product:	Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	882kHz	--	--



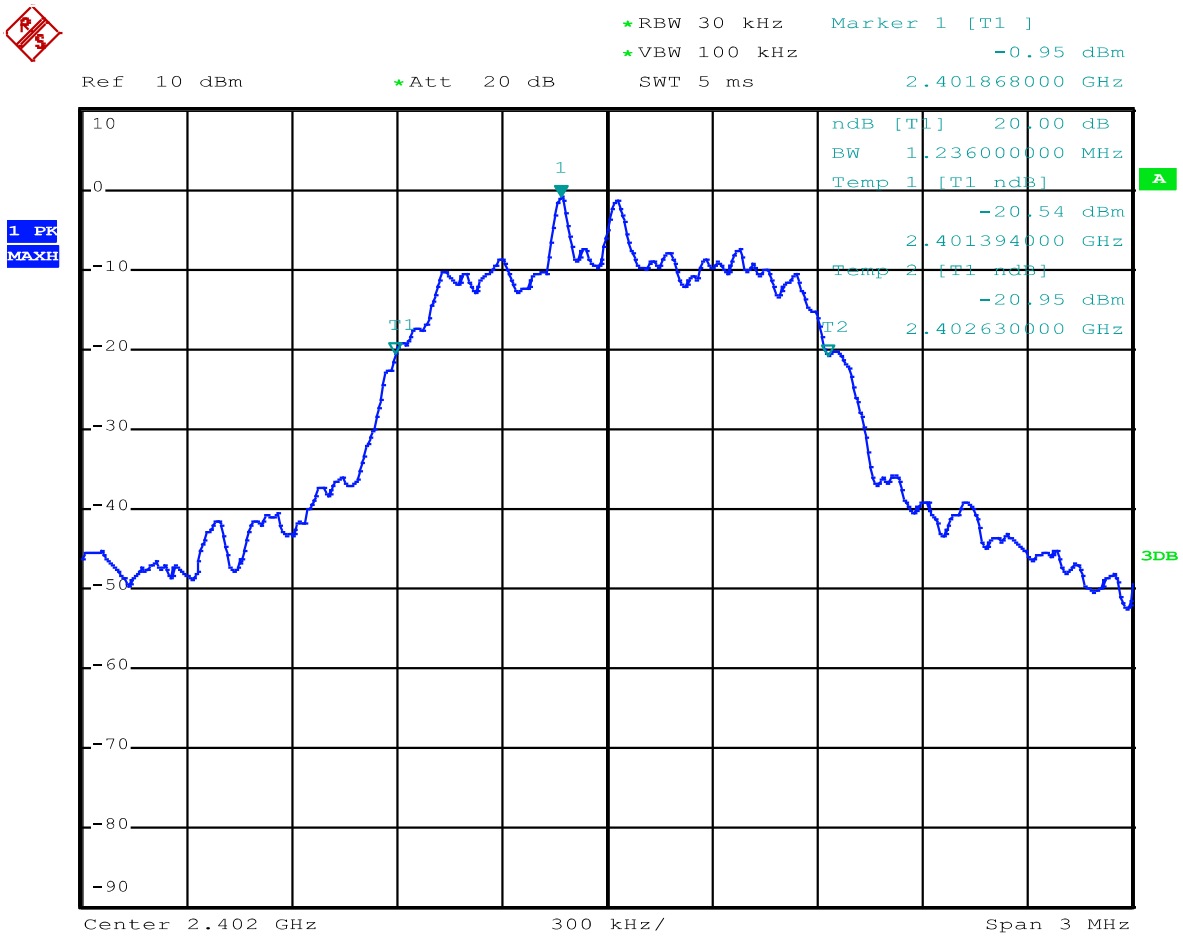
Date: 18.MAR.2025 11:41:31

GFSK			
Product:	Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	846kHz	--	--



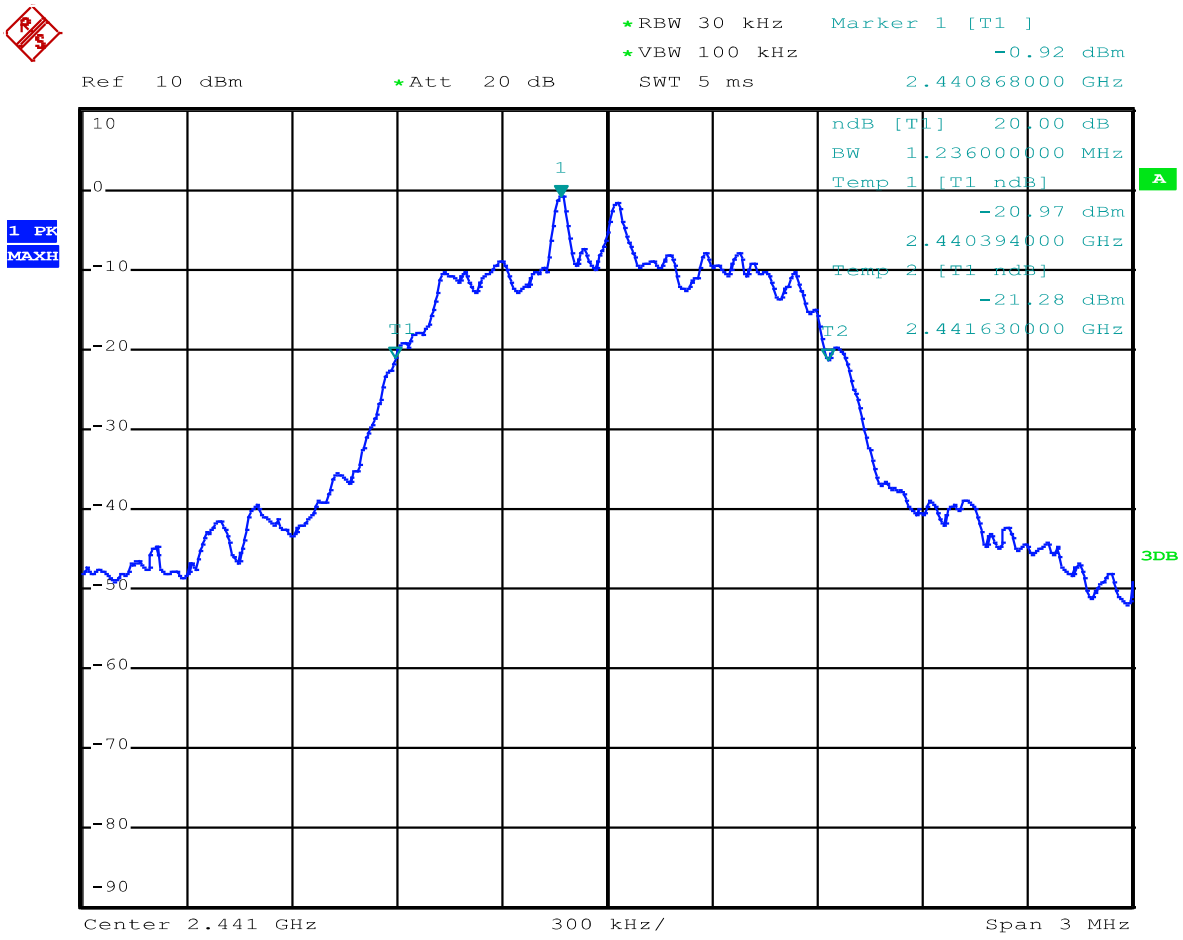
Date: 18.MAR.2025 11:42:43

Л/4DQPSK			
Product:	Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.236MHz	--	--



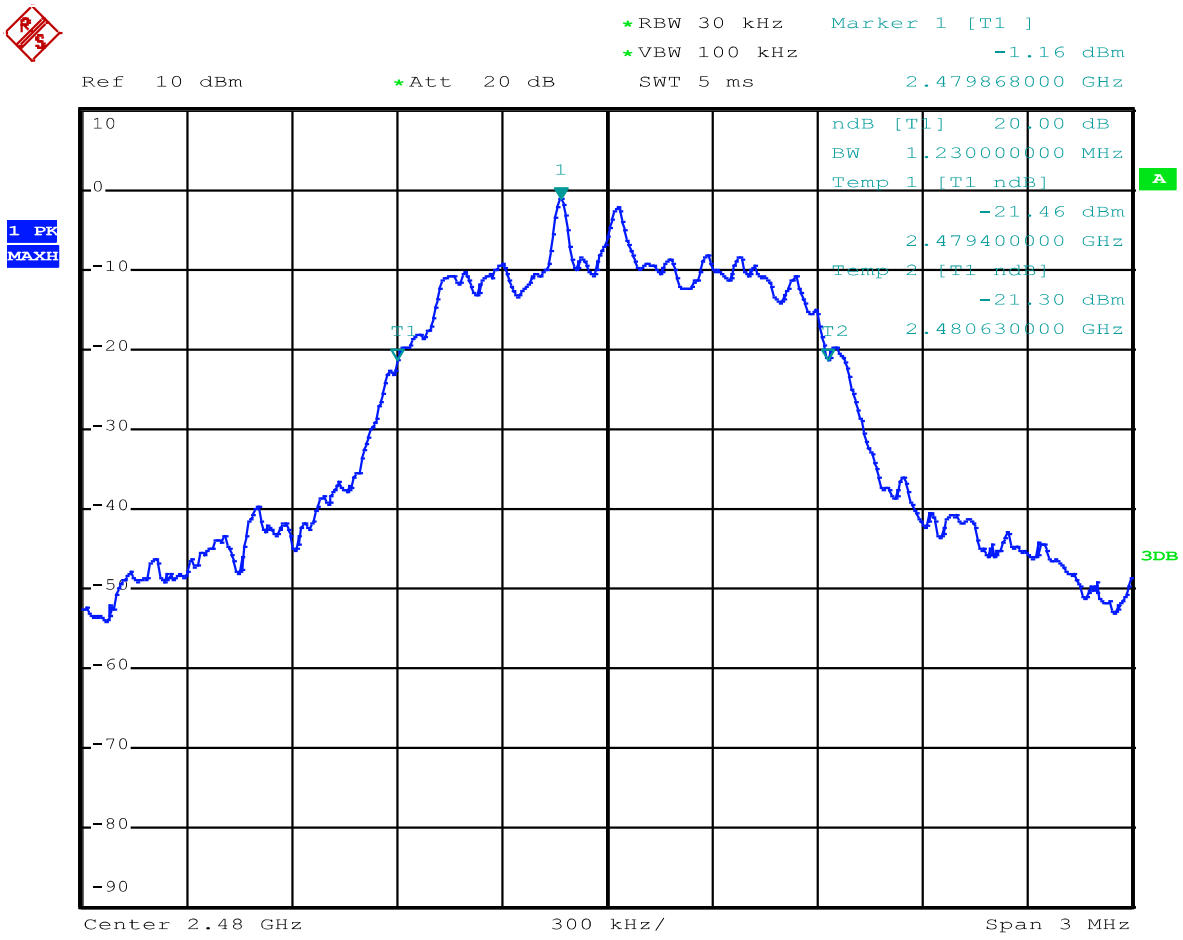
Date: 18.MAR.2025 11:50:35

Л/4DQPSK			
Product:	Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.236MHz	--	--



Date: 18.MAR.2025 11:44:14

Л/4DQPSK			
Product:	Wireless Earphone	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.230MHz	--	--



Date: 18.MAR.2025 11:43:06

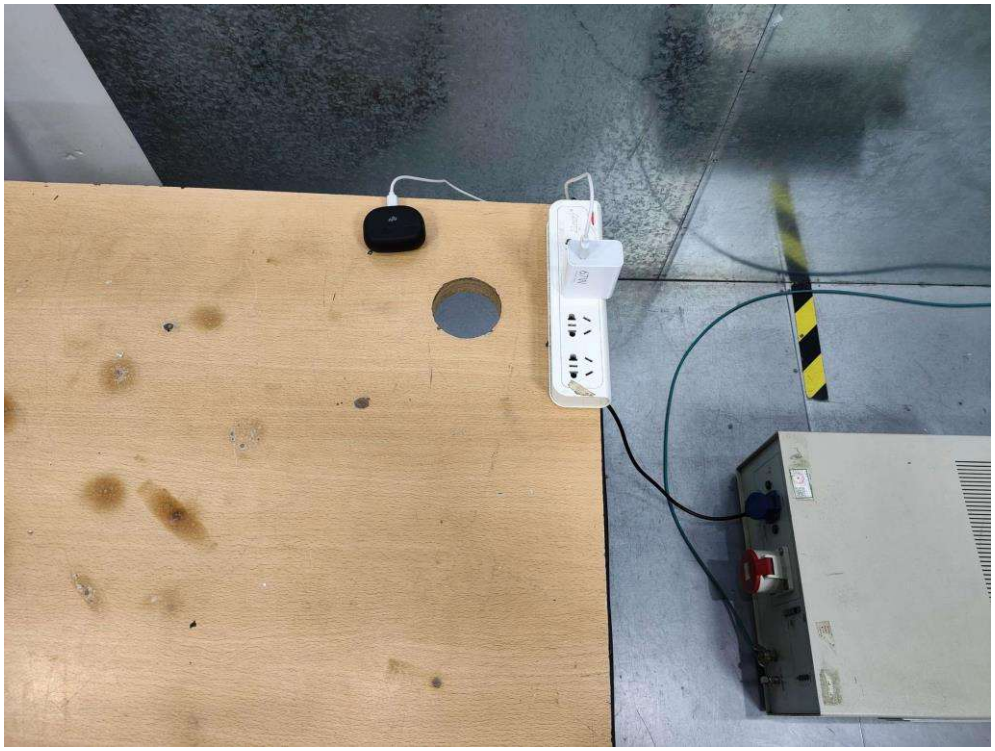
10.0 FCC ID Label

FCC ID: 2BK3OATTG99B

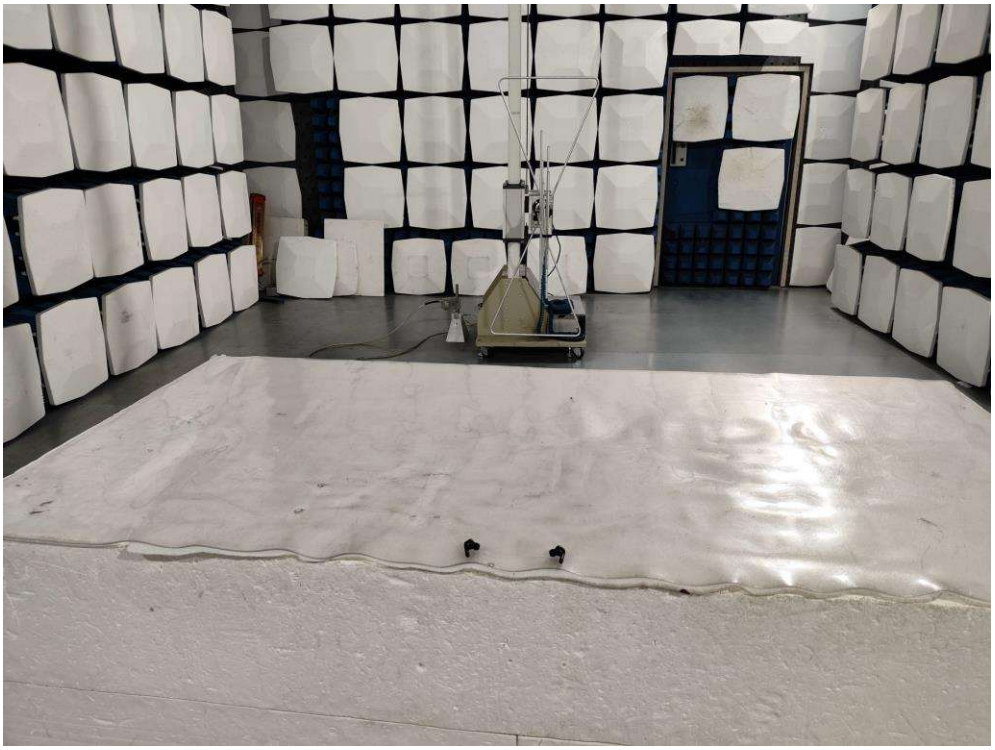
The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

11.0 Photo of testing

11.1 Conducted test View



Radiated emission test view

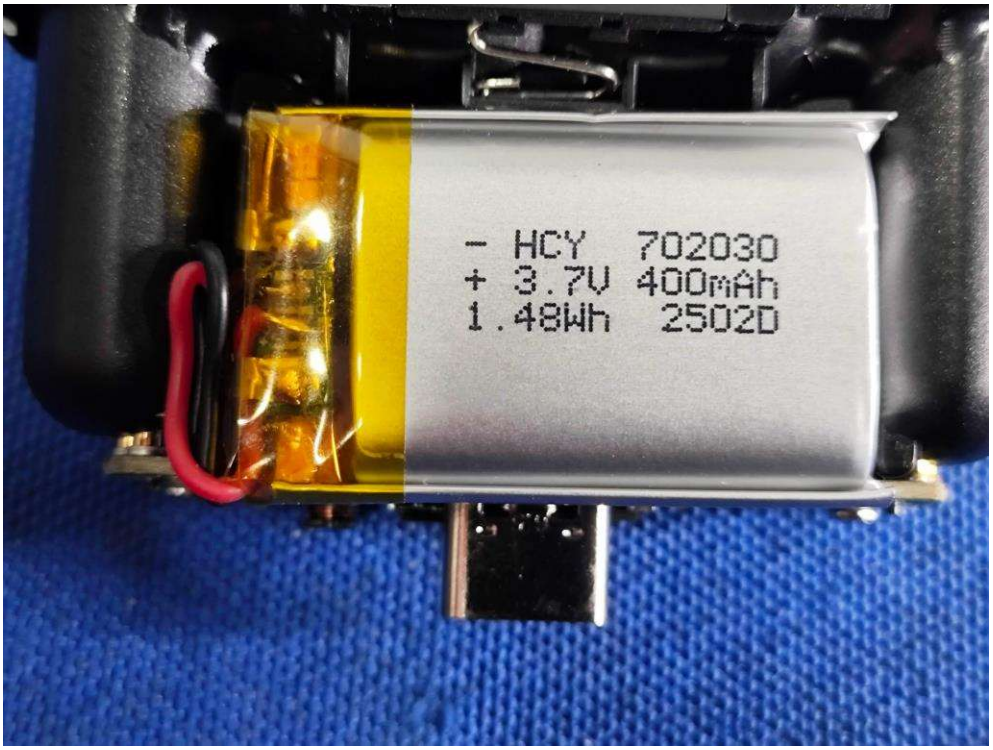


11.2 Photographs – EUT Outside View- charger base

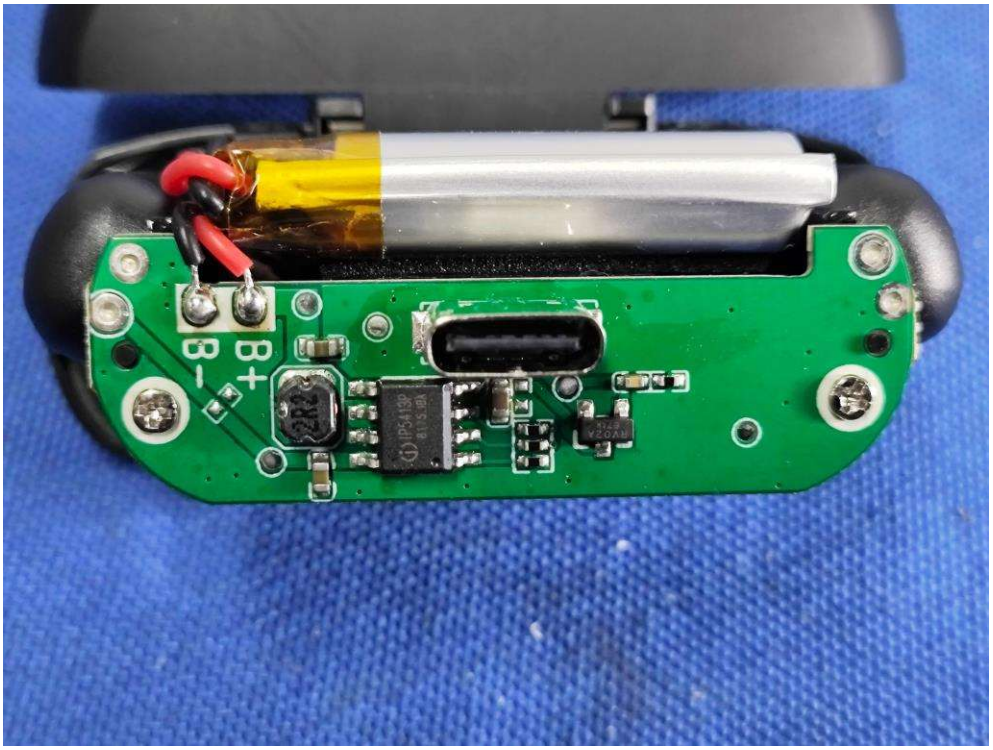
Outside View- charger base

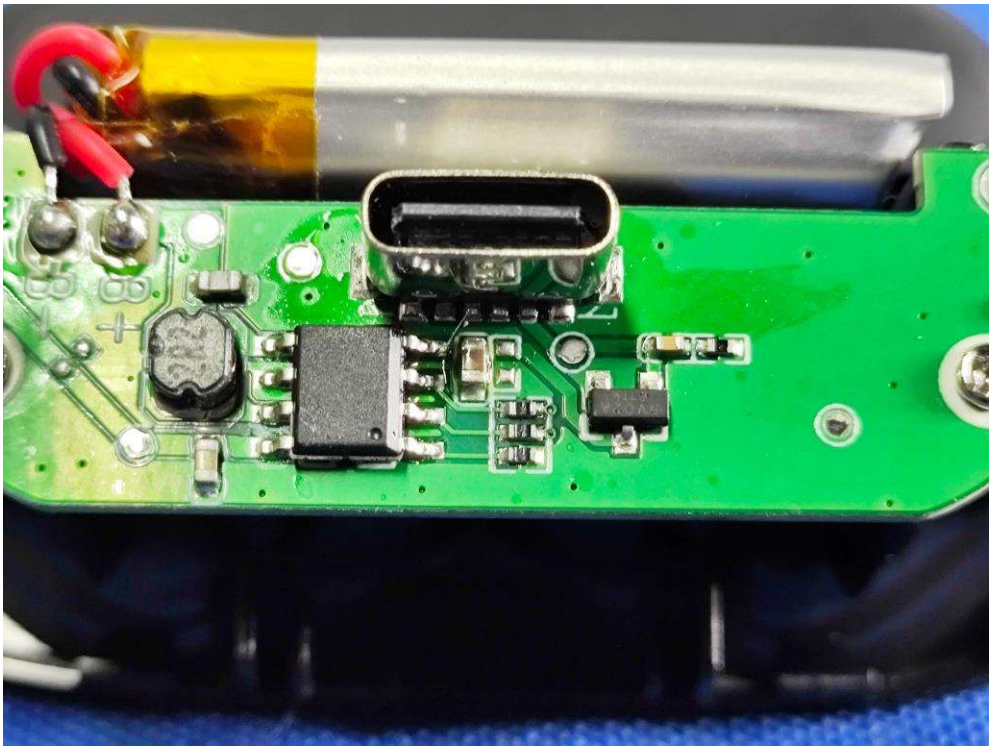
Outside View- charger base

Inside View - charger base

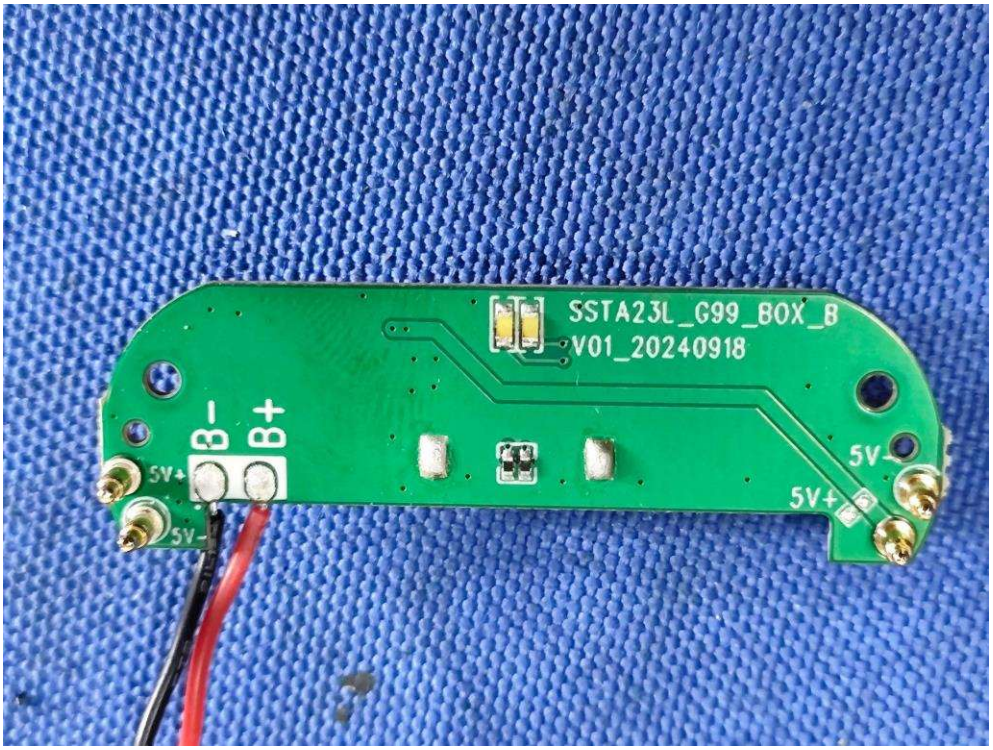


Inside View - charger base





Inside View - charger base



Outside View - Left earphone