



Report No.: TW2106036E File reference No.: 2021-06-21

Applicant: Shenzhen Glory Star Technology Industrial Co., Ltd

Product: TWS Earphones

Model No.: TWS74, MI-E060T

Brand Name: N/A

Test Standards: FCC Part 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 &FCC Part 15 Subpart C,

Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility



Dated: June 21, 2021

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Shenzhen Glory Star Technology Industrial Co., Ltd

Address: Room 2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District, Shenzhen, China

Telephone: +86-755-86397260 Fax: +86-755-26609516

1.3 Description of EUT

Product: TWS Earphones

Manufacturer: Shenzhen Glory Star Technology Industrial Co., Ltd

Address: Room 2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District,

Shenzhen, China

Brand Name: N/A
Model Number: TWS74
Additional Model Name MI-E060T

Hardware Version: XL-i7-HF-69A V1.2

Software Version: V016

Rating: DC5V input or Built-in DC3.7V, 35mAh Li-ion battery for Earphone; DC5V

input or Built-in DC3.7V, 400mAh Li-ion battery for charger base

Modulation Type: GFSK, Pi/4D-QPSK Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz Channel Number: 79

Antenna Designation PCB antenna with gain 0.937dBi Max for both right earbud and left earbud (Get

from the antenna specification provided by the applicant)

1.4 Submitted Sample: 1 pc

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1.5 Test Duration

2021-06-03 to 2021-06-19

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by



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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic			N/A	2020-07-06	2021-07-05
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	1	2020-06-23	2021-06-22
RF Cable	Zhengdi	7m		2020-06-23	2021-06-22
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

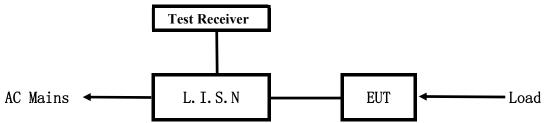
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

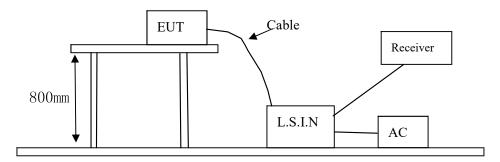


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID	
TWS Earphones	Shenzhen Glory Star Technology	TWS74, MI-E060T	2AS7V-TWS74	
1 w 5 Earphones	Industrial Co., Ltd	1 W 5 / 4, MII-E0001	2A3/ V-1 W 3/4	

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB µ V)			
(MHz)	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
5.00 ~ 30.00	60.0	50.0		

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

Pass

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

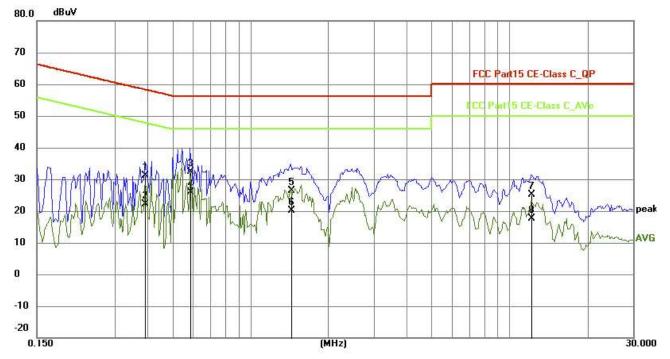
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Communication by BT

Model: TWS74 Results: PASS

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.3918	21.33	9.76	31.09	58.03	-26.94	QP	Р
2	0.3918	12.27	9.76	22.03	48.03	-26.00	AVG	Р
3	0.5868	22.69	9.77	32.46	56.00	-23.54	QP	Р
4	0.5868	16.02	9.77	25.79	46.00	-20.21	AVG	Р
5	1.4370	16.53	9.79	26.32	56.00	-29.68	QP	Р
6	1.4370	10.23	9.79	20.02	46.00	-25.98	AVG	Р
7	12.1845	14.86	10.26	25.12	60.00	-34.88	QP	Р
8	12.1845	7.27	10.26	17.53	50.00	-32.47	AVG	Р

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

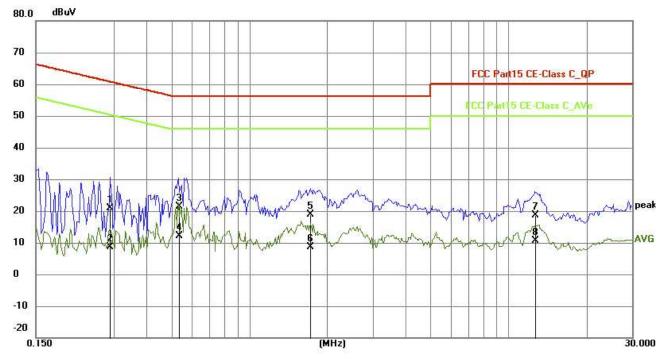
EUT Operating Environment

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Communication by BT

Model: TWS74 Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2904	11.16	9.76	20.92	60.51	-39.59	QP	Р
2	0.2904	-1.01	9.76	8.75	50.51	-41.76	AVG	Р
3	0.5322	11.68	9.77	21.45	56.00	-34.55	QP	Р
4	0.5322	2.25	9.77	12.02	46.00	-33.98	AVG	Р
5	1.7217	9.17	9.80	18.97	56.00	-37.03	QP	Р
6	1.7217	-1.10	9.80	8.70	46.00	-37.30	AVG	Р
7	12.6915	8.35	10.28	18.63	60.00	-41.37	QP	Р
8	12.6915	0.36	10.28	10.64	50.00	-39.36	AVG	Р

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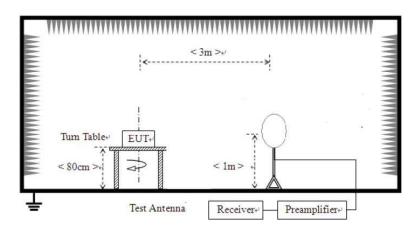


6 Radiated Emission Test

- 6.1 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) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



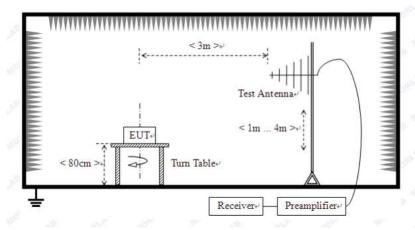
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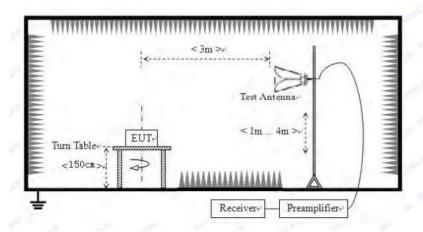
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition
 Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency Field Strength of Fundamental			Strength of Fundamental (3m)			nics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBuV/m	
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 6. Battery full charged during tests.
- 7. The three 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. Right Earbud and Left Earbud were tested and only the worst cased was recorded in the test report.

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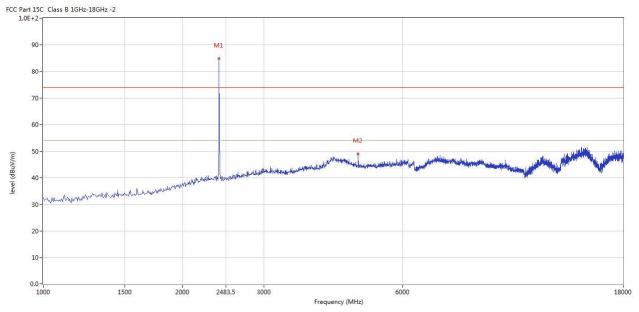


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

Horizontal



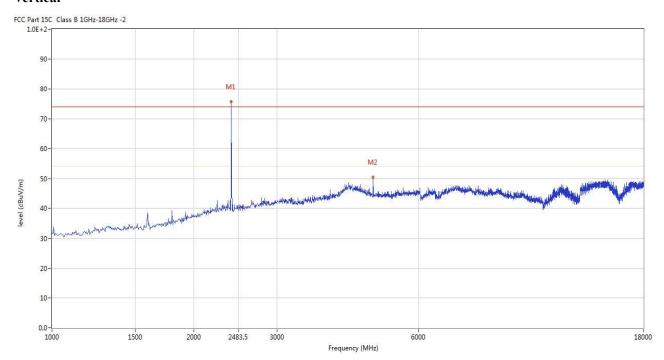
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2402.149	84.88	-3.57	114.0	-29.12	Peak	157.00	100	Horizontal	Pass
2	4802.799	49.02	3.12	74.0	-24.98	Peak	166.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.149	75.77	-3.57	114.0	-38.23	Peak	181.00	100	Vertical	Pass
2	4802.799	50.56	3.12	74.0	-23.44	Peak	172.00	100	Vertical	Pass

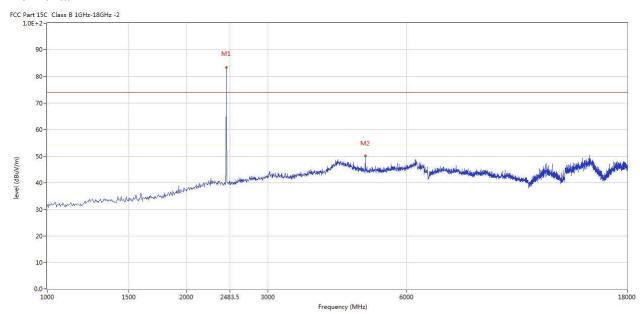
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



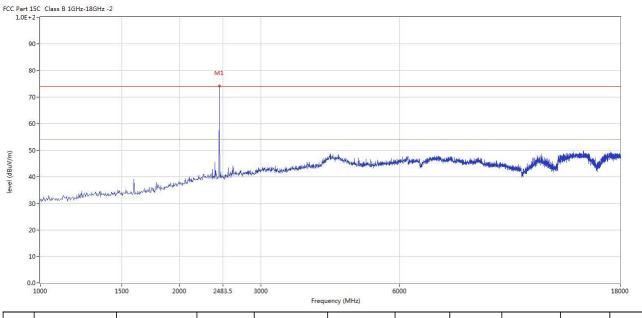
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.390	83.46	-3.57	114.0	-30.54	Peak	152.00	100	Horizontal	Pass
2	4883.529	50.01	3.20	74.0	-23.99	Peak	207.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2440.390	74.11	-3.57	114.0	-39.89	Peak	109.00	100	Vertical	Pass

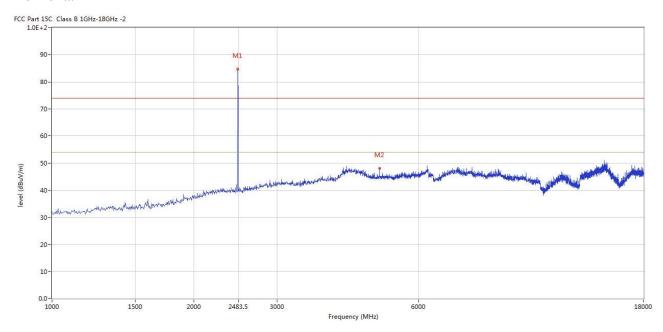
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



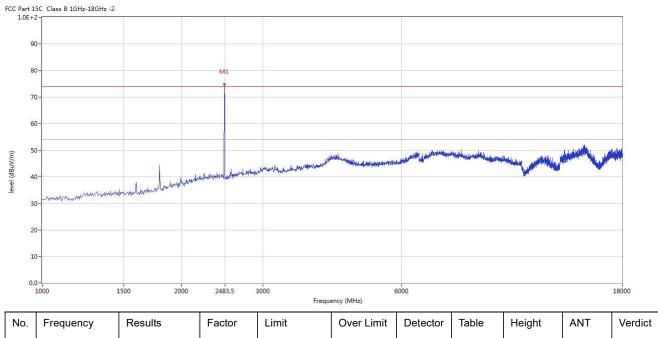
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.630	84.91	-3.57	114.0	-29.09	Peak	226.00	100	Horizontal	Pass
2	4960.010	47.96	3.36	74.0	-26.04	Peak	162.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.630	74.70	-3.57	114.0	-39.3	Peak	220.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (3) Margin=Emission-Limits
- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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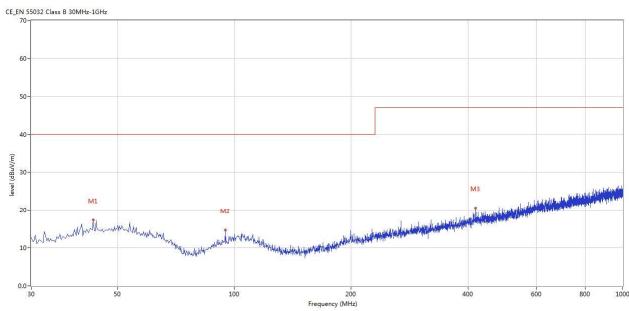


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	43.334	17.41	-11.49	40.0	-22.59	Peak	154.00	100	Horizontal	Pass
2	94.731	14.79	-14.32	40.0	-25.21	Peak	7.00	100	Horizontal	Pass
3	418.630	20.57	-8.22	47.0	-26.43	Peak	24.00	100	Horizontal	Pass

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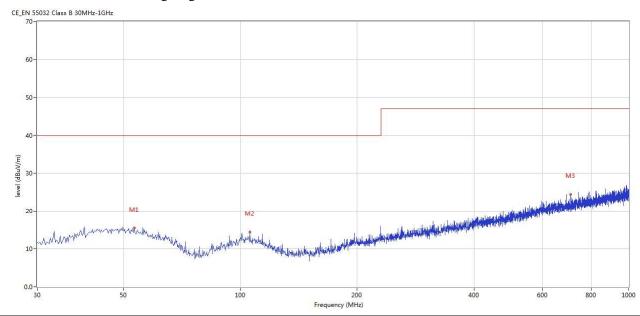


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	53.274	15.49	-11.51	40.0	-24.51	Peak	208.00	100	Vertical	Pass
2	105.884	14.44	-13.29	40.0	-25.56	Peak	297.00	100	Vertical	Pass
3	709.800	24.44	-4.02	47.0	-22.56	Peak	308.00	100	Vertical	Pass

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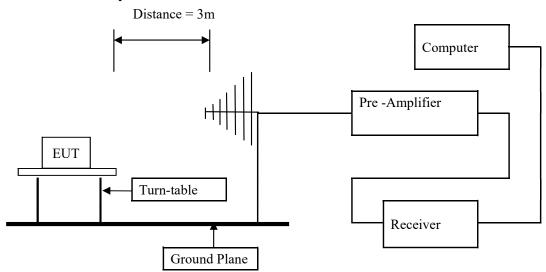


7. Band Edge

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.

The report refers only to the sample tested and does not apply to the bulk.

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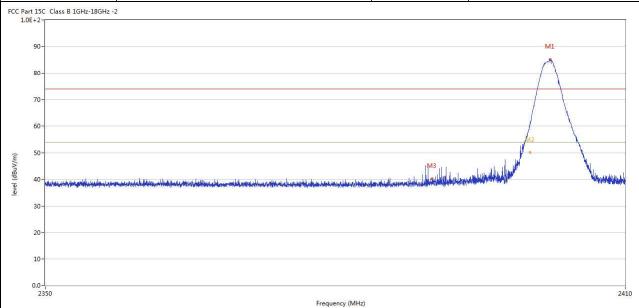
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7.6 Test Result

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



N	0.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2		2400.042	60.53	-3.57	74.0	-13.47	Peak	154.00	100	Horizontal	Pass
2*	* *	2400.042	50.11	-3.57	54.0	-3.89	AV	154.00	100	Horizontal	Pass
3		2389.860	40.04	-3.53	74.0	-33.96	Peak	184.00	100	Horizontal	Pass

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3

2390.055

39.92

-3.53

74.0



Pro	oduct:		TWS Ear	phones		Detector		Ve	rtical	
N	Mode	K	Leeping Tra	nsmitting	Te	est Voltage		DC	23.7V	
Temp	perature		24 deg	g. C,	I	Humidity		56%	% RH	
Test	Result:		Pas	s						
Part 15C	Class B 1GHz-18GHz	-2								
90-										
80-								M	11	
70-										
								1	1	
60-									_	
50-						1		N ₂		
50-	hir hadi zahia	والمراجعة والمستعدد والمستعد والمستعدد والمستع	de the distribution	Alongo the Indian	- Loralla karat			V2	A tont	Llus constant
50- 40-	lyland delikada en dekere bered		, khandaji melaja ja	undangun daga dikk	on many said by at when			√2 •	- Control	Unique de sino
50-	a la de la dela de	ilter ophiddish stepsished droke	oktomin flavikk mykylla vyskylla	unidan gerus dinan didak	and the second	ndersalende de spellende de spe		2	- Annahari	In a substitute
50- 40-	la les de de la colonial de la colonial	ili madaddi ildin bifa dadab daaba	, dinada filmedi filmedi jela veçda fil	unikka juga merkaka disklek	operate state bed structure			√ 2		loji slivba
50- 40- 30-	lagin. Had be kerelek a colonial	illimosek dekillek, kipa ikelah absala	e dinsely liquid on desidence of the	undary progratica je distri	hagyanagin gi di			V2	a bread	hipranger
50- 40- 30- 20- 10-		ilt oo geleeld i jih telebi keeks	e de moto filmente en des des enquês de	unid kapageens kipku di dikikka	oppositely stable basis stable on	n de condessado		2	a trade	
50- 40- 30- 20-		iil	i dinadi dinadikan di diserepa di		requency (MHz)			√2 0		2410
30- 20- 10- 235(Results	Factor			Detector	Table	Height	ANT	2410
30- 20- 10- 2350	50			Fi	requency (MHz)		Table (o)	Height (cm)	, , , , , , , , , , , , , , , , , , , ,	2410
50- 40- 30- 20- 10- 0.0- 2350	Frequency	Results	Factor	Fi Limit	requency (MHz) Over Limit				, , , , , , , , , , , , , , , , , , , ,	

-34.08

Peak

92.00

100

Vertical

Pass

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	Product:		TWS Ea	rphones		Polarity		Но	orizontal				
	Mode	K	eeping Tr	ansmitting		Test Voltage DC3.7V							
Τσ	emperature		24 de	g. C,		Humidity	,	5	6% RH	KH			
T	est Result:		Pa	ss									
CC Part 1.0E-	15C Class B 1GHz-18GHz +2-	-2											
8	90-												
	80-		N	Para.									
	08.00			1									
	70-		1	1									
	60-		1	M									
Œ	50-	The same of the sa	J.										
-			1 7										
el (dBuV/	40 - William of the Control of the C				The same of the sa	المال المولاء أو المالية	Managerial Medical Publishers	and the property of the same	and water and to contact the first of a good	halku jirili dalas			
	40 - Capital London Landon Lan				And the latter of		Markemittedheimbhiteni	and the same of the same	and water policy or trapped and beauty with	the Hiller			
ı	30-				Andrew Laboratory	mag an Mad di palipaphi a majora di pad	odkasiya silabeti dabiya	no planing more with risk man	a adecedity galajority, pilakou kopul viid	h.b.			
3	30-				The state of the s	mega-lited i paietil på al-scoribled	Markenishliketrahiterij	us "As izenos (otbi pis <mark>k</mark> one,	t nationally spelling relative than the band with	Andrew Jeffer Africa			
level	20-				The state of the s	meng under die krieg des het som til _{de} d	distance di dicenti di d	an phonones with print, and	a ndewalen galapun engapada dan di seda	Andrew Style Later			
3	30-			2483.5	,		atasiya isladbar datirii	an Arting and Arting a	a ndewallon golden vergendelsende ood verk	2500			
c c	20- 10- 2470	Results	Factor			Detector	Table		ANT				
3	20-		Factor (dB)	15,5-000403	; Frequency (MHz)			Height (cm)		2500			

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	Product:	1				Detector	Vertical			
	Mode	Ke	eping Trai	nsmitting	Tes	st Voltage	oltage DC3.7V			
Τe	emperature		24 deg.	. C,	Н	Iumidity		56% RH		
To	est Result:		Pass	3						
CC Part 1.0E+	15C Class B 1GHz-18GHz -2	2			•					
ğ	90-									
	80-									
ā	70-									
			1	1						
(50-		/	1						
	50-									
	_	متملط والمتعارض والمتعارض والمتعارض		The state of the s	ade the later when his	the ballet and beautiful to the same of th		والمار والمراد		Maria Al
level (dbuV/m)	50-	المراجعة والمتعارض والمتعا		The state of the s	de de la companya de	abith white all the work		Made and a special place.	and the inflavoir throat or their	
level (dBuV/m)	50- 40	ordensku sidejenske deideld		The state of the s	adribble de la comissión de la faction de la	orbith white and descript	usadishaddigaddd	المنافي الجنائي الإضابال المتراف	and bearings have a bearing through	uhe en a d
level (dBuV/m)	50- 40- <u>waa da uu ka da da</u>	المراجعة الم		The state of the s	adright delection is brightly,	orbital and beauth	magnificity and designed the	Ubdy, de poly, de procede, delegad	sind day the white dead as been	
level (dBuV/m)	50	ordanduraida; emilye iki dababibi		2483.5		orbitel englishment descript	nagadys spekalak spekalak sp	llade, de est, de est, de est, de est	und da Marvis kanning kan	2500
level (dBuV/m)	10 - Lung - Lib List List List List List List List List	المتحافظ في المتحافظ		2483.5	equency (MHz)	alife the same beauth	nigily), pik di pik di	المائية والمراجعة وا	und den delse visitanden, delse	
level (dBuV/m)	10 - Lung - Lib List List List List List List List List	Results	Factor	2483.5		Detector	Table	Height	ANT	2500
level (dBuV/m)	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		Factor (dB)	2483.5 Fre	equency (MHz)					

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

- 2. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 3. The three 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.
- 4. Right Earbud and Left Earbud were tested and only the worst cased was recorded in the test report.

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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 PCB antenna with gain 0.937dBi Max for both right earbud and left earbud. It fulfills the requirement of this section.

Test Result: Pass

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9.0 20dB Bandwidt	h Measurement								
GFSK Modulation	1								
Product:	TW	S Earphones		Test N	Iode:	Keep transmitting			
Mode	Keepi	ng Transmitting		Test Voltage		DC3.7V			
Temperature		24 deg. C,		Hum	idity		56% RH		
Test Result:		Pass		Dete	ctor		PF	X .	
20dB Bandwidth	8	811.62kHz			-			-	
	Marker	1 [T1 ndB]	R	BW	30 kH	Iz RI	7 Att	20 dB	
Ref Lvl	ndB	20.00 dE			00 kH				
10 dBm	BW 811	L.62324649 kH	Iz S	WT 8	.5 ms	S U	nit	dBm	1
					v ₁	[T1]	-1	.35 dBm	A
0			<u> </u>				2.40200	902 GHz	
		Λ			ndB BW	81	20 1.62324	.00 dB 649 kHz	
-10				,	$ abla_{\mathrm{TI}}$	<u>[T1]</u>	-21	.38 dBm	
10		\sim		7			2.40160	020 GHz	
-20		Τŀ		Y	∇_{T2}	[T1]	-21	.55 dBm	l
1MAX				0	И		2.40241	182 GHz	1MA
-30							^		
-30	^ / /	V				7	^ ^ /	^	
							$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	hw.	
-40	*					· · ·	*		
-50									
-60									
-70									
-80									
-90 Center 2.	402 GH2	3.0	0 kHz/				gna	ın 3 MHz	J.
			0 KIIZ/				spa	J PHIZ	
Date: 10.	JUN.2021 13	:50:47							

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Product: TWS Earphones Test Mode: Keep transmitting Mode Keeping Transmitting Test Voltage DC3.7V	GFSK Modula	tion						
Temperature	Product:	TWS	S Earphones	Т	est Mode:	Keep ti	ransmitting	
Test Result: Pass Detector PK 20dB Bandwidth 847.70kHz	Mode	Keepin	g Transmitting	To	est Voltage			
20dB Bandwidth 847.70kHz	Temperature	2	4 deg. C,]	Humidity			
Marker 1 [T1 ndB] RBW 30 kHz RF Att 20 dB ndB 20.00 dB VBW 100 kHz 10 dBm BW 847.69539078 kHz SWT 8.5 ms Unit dBm 2.4410002 GHz 2.44100002 GHz 2.44100000000000000000000000000000000000	Test Result:		Pass		Detector		PK	
Ref Lvl ndB 20.00 dB VBW 100 kHz 10 dBm BW 847.69539078 kHz SWT 8.5 ms Unit dBm V (T1)	20dB Bandwidth	84	47.70kHz					
10 dBm BW 847.69539078 kHz SWT 8.5 ms Unit dBm V1 [T1]95 dBF 2.4410 902 GHz HR 8 7.6953 078 kHz V1 [T1]95 dBF 2.4405 413 GHz -20 1MAX -30 VT [T1]2.90 dBF 1MA -30 VT [T1]2.90 dBF 1MA -30 VT [T1]2.90 dBF 1MA -30 VT [T1]3914 BZ GHZ 1MA	Ŕ	Marker	RBW	30 kHz	RF Att	20 dB		
TI (TI)95 dBb 2.4410 902 GHz 2.4410 902 GHz 887.6933 078 kHz 78 751	•	ndB	VBW					
T1 (T1) 2.4410602 GH 2.4410602 GH 27 (200 dB 27 (69538) 78 kH 2 2.4405613 GH 2.4405613 GH 2.4405613 GH 2.4405613 GH 2.44104 82 GH 1MA -10		BW 847	SWT	8.5 ms	Unit	dBm		
2.44100 02 GHS 20 00 dB 20 00 dB 827.69538 78 kHz 20 13 GHz 20 13 GHz 20 14056 13 GHz 20 140 2 GHz 21 2.44056 13 GHz 22 4419 102 GHz 1MAX -30 -40 -50 -60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz	10				v 1 [:	r1] –	0.95 dBm	
-10 -10 -10 -10 -10 -10 -10 -10 -10 -10						2.4410		
-10 -20 -20 -20 -20 -20 -20 -20 -20 -20 -2	0		Λ ₀ /	\		2		
2.4405613 GHz -20.90 dBm -20.4414 82 SH2 1MAX -30 -40 -60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz				\bigvee				
-20 1MAX -30 -40 -40 -50 -60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz	-10		√	4			6413 GHz	
-30 -40 -40 -50 -60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz			T1 ~		$igwedge_{ ext{T2}}lacktriangledown_{ ext{T2}}$	[T1] -2	0.90 dBm	
-30 -40 -50 -60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz			7		1	2.4414	1182 GHz	
-40 -50 -60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz	\		\^\frac{1}{2}				TMA	
-50 -60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz	-30		V			L	N	
-60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz	-40	V V				V V V		
-60 -70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz								
-70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz	-50							
-70 -80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz								
-80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz	-60							
-80 -90 Center 2.441 GHz 300 kHz/ Span 3 MHz								
-90 Center 2.441 GHz 300 kHz/ Span 3 MHz	-70						<u> </u>	
-90 Center 2.441 GHz 300 kHz/ Span 3 MHz								
Center 2.441 GHz 300 kHz/ Span 3 MHz	-80							
Center 2.441 GHz 300 kHz/ Span 3 MHz								
	-90							
Date: 10.JUN.2021 14:03:29	Center 2	.441 GHz	300	kHz/		Sp	an 3 MHz	
	Date: 10	.JUN.2021 14	:03:29					

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GFSK Modulation						
Product:	TWS Earphone	S	Test Mode:	Keep transmitting DC3.7V 56% RH		
Mode	Keeping Transmit	ting	Test Voltage			
Temperature	24 deg. C,		Humidity			
Test Result:	Pass		Detector	I	PK	
20dB Bandwidth	847.70kHz					
(R)	Marker 1 [T1 n	dB] I	RBW 30 kHz	z RF Att	20 dB	
Ref Lvl			7BW 100 kHz		_	
10 dBm	BW 847.695390	78 kHz S	SWT 8.5 ms	Unit	dBm	
			V 1 [[T1] -0 2.48000	.98 dBm 902 GHz	
0		Λ	ndE	20	.00 dB	
		$\setminus \sim \setminus \setminus$	BW ▼T1	847.69539	078 kHz	
-10			<u></u>	2.47956	413 GHz	
	T1 -		$\bigvee_{\mathtt{T2}} \triangledown_{\mathtt{T2}}$	[T1] -20	.98 dBm	
-20				2.48041	182 GHz	
-30					1MA	
-40			Ĭ		\\\\	
•						
-50						
-60						
-70						
-80						
-90 Center 2.48	3 647	300 kHz/	,	Coo	n 3 MHz	
	UN.2021 14:07:00	300 KH2/		Spa	II O MIIZ	

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Pi/4D-QPSK Mo	odulation	Ĺ									
Product:		TWS	S Earphone	es		Т	est Mode	:	Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		T	est Voltage	e	DC3.7V		
Temperature	24 deg. C, Pass]	Humidity Detector		56% RH PK			
Test Result:											
20dB Bandwidth		1.238MHz									
· FA		Marker	1 [T1 n			RBW	30 k	Hz R	F Att	20 dB	
Ref Lvl	ndB 20.00 dB				VBW		HZ				
10 dBm	BW 1.23847695 MHz				SWT	8.5 m	ns U	Unit dBm			
							lacksquare1	[T1]	-1	.25 dBm	A
0									2.40200	902 GHz	
				Λ <i>/</i>	\			3	20 1.23847	.00 dB 695 MHz	
-10				/\./		\wedge		 [T1]	-21	.04 dBm	
-10			\sim				\sim		2.40138	978 GHz	
		T	/				\[\sigma\]	_{T2} [T1]	-21	.09 dBm	
-20)						7	2.40262	826 GHz	1MA
-30								\			
-30		7							/	\	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\sqrt{\lambda}$	$\sqrt{}$						$\setminus \setminus$	$\wedge \wedge$	WW.	
-40	V .										
-50											
-60											
-70											
-80											
-90 Center 2	402 CT	I		300	1-17	5 /			C= -	n 2 MIII –	!
				300	ĸН	۷.			spa	ın 3 MHz	
Date: 10).JUN.2	021 14	:26:51								

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Pi/4D-QPSK Mo	odulation								
Product:	TW	S Earphones		7	Test Mode:	:	Keep tra	ansmitting	
Mode	Keepin	g Transmittir	ng	Т	est Voltage	e	DC3.7V		
Temperature	24 deg. C, Pass 1.232MHz Marker 1 [T1 ndB]				Humidity Detector RBW 30 kHz R		56% RH		
Test Result:]	PK	
20dB Bandwidth									
Ŕ							F Att	20 dB	
Ref Lvl	ndB 20.00 dB			VBW	100 k				
10 dBm	BW 1.23246493 MHz			SWT	8.5 m	ns U	nit	dBm	l •
					v ₁	[T1]	-(.85 dBm	A
							2.44101	503 GHz	
			\wedge	\	ndI	b	20	.00 dB	
1.0			/_/		BW ▼ _T	[T]	1.23246 -20	493 MHz	
-10		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	J *V		,		2.44038	978 GHz	
	Ŧ	/			∇ _T	r ₂ [T1]	-20	.78 dBm	
-20 1MAX						Y	2.44162	224 GHz	1MA
-40						\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\wedge \wedge$	J.,	
-40									
-50									
-60									
-70									
-80									
-90 Center 2.	441 GHz		300 1	kHz/			Spa	ın 3 MHz	
		1:19:47		•					

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Pi/4D-QPSK Mo	dulation										
Product:		TWS	Earphone	es		Т	est Mode	:	Keep tra	ansmitting	
Mode]	Keeping	g Transmi	tting		Te	est Voltag	e	DC3.7V		
Temperature	24 deg. C, Pass]	Humidity		56% RH PK			
Test Result:					Detector						
20dB Bandwidth		1	226MHz								
R	Ма	rker	1 [T1 n	ndB]		RBW	30 }	KHZ R	F Att	20 dB	
Ref Lvl	ndB 20.00 dB				VBW						
10 dBm	BW 1.22645291 MHz			SWT	8.5 m	ns U	Unit dBm				
							lacksquare1	[T1]	-(.94 dBm	A
0									2.48000	902 GHz	
				\wedge /	1			3	1.22645	0.00 dB 5291 MHz	
-10						^		[T1]	-20	0.84 dBm	
10			\ww\			W	\sim		2.47938	978 GHz	
-20		Ţ	J				$\nabla \Upsilon$	1 ₂ [T1]	-20	1.96 dBm	
1MAX								J	2.48061	1623 GHz	1MA
-30	~\\\	$\sqrt{}$						\\	$\wedge \wedge$	Jan Mark	
-40								7			
-50											
-60											
-70											
-80											
-90 Center 2	.48 GHz			300	kH2	z/			Spa	an 3 MHz	
Date: 10	.JUN.202	1 14	:14:38								

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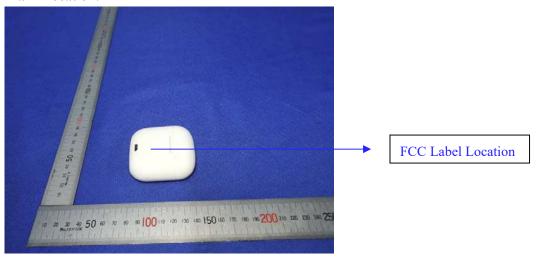


10.0 FCC ID Label

FCC ID: 2AS7V-TWS74

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.

Mark Location:



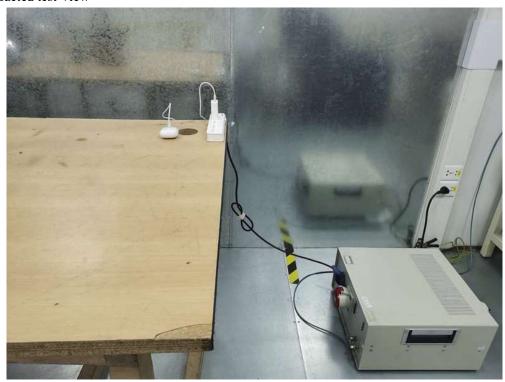
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11.0 Photo of testing

11.1 Conducted test View--



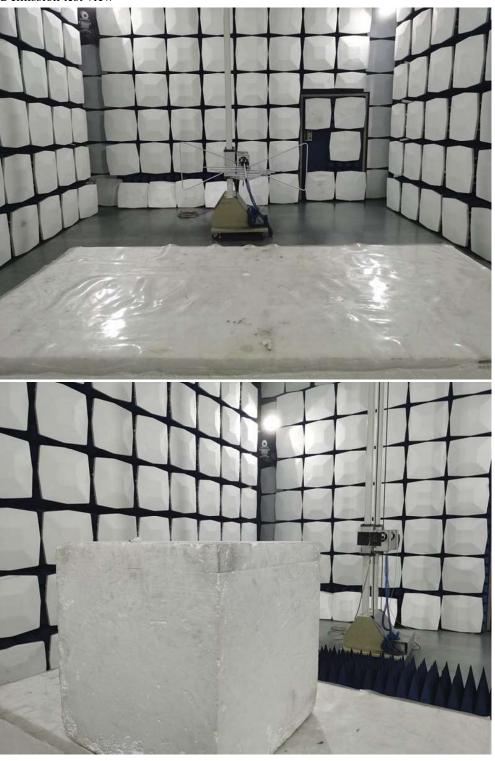
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Radiated emission test view



The report refers only to the sample tested and does not apply to the bulk.

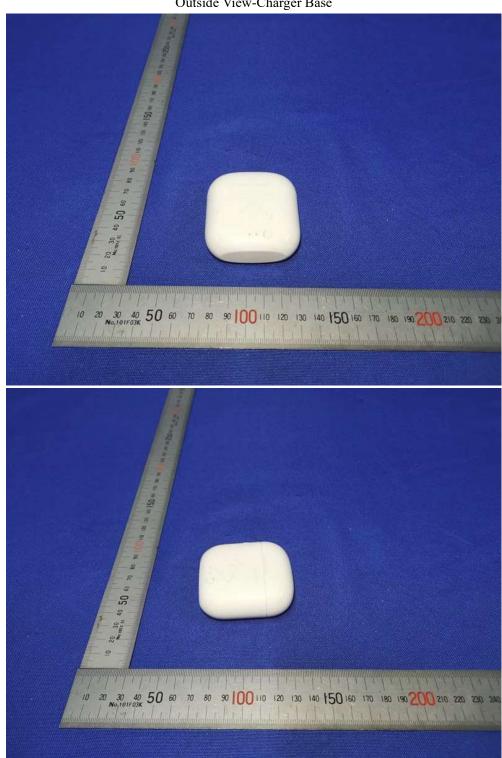
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11.2 Photographs – EUT

Outside View-Charger Base



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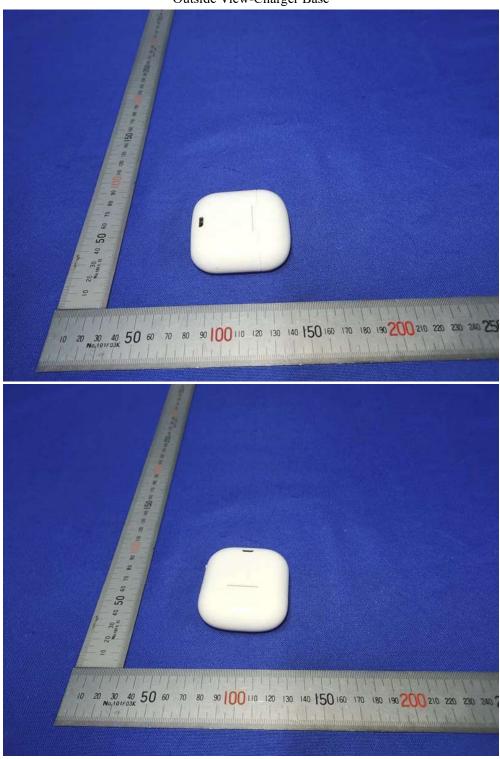
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Photographs - EUT

Outside View-Charger Base



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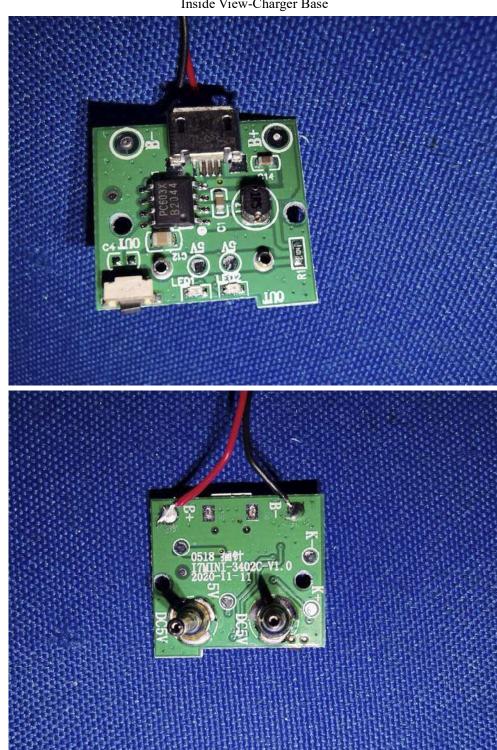
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Inside View-Charger Base



The report refers only to the sample tested and does not apply to the bulk.

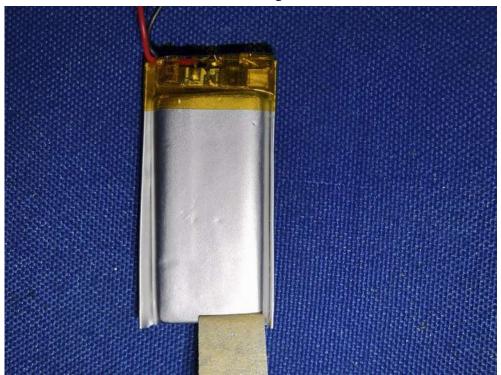
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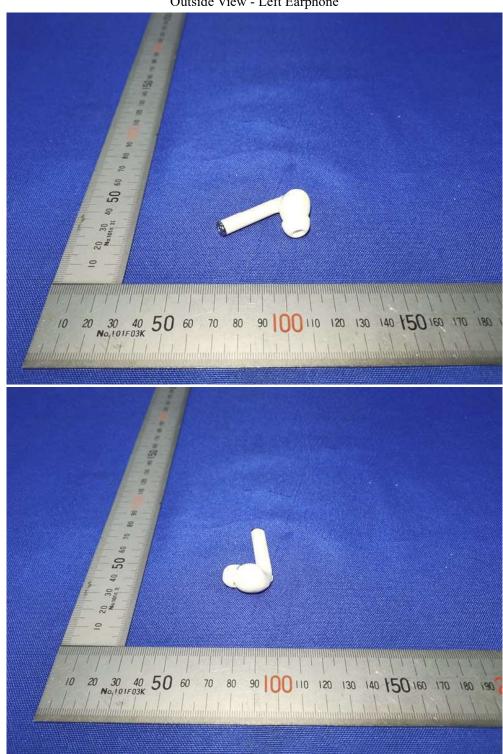
Inside View-Charger Base



Date: 2021-06-21



Outside View - Left Earphone



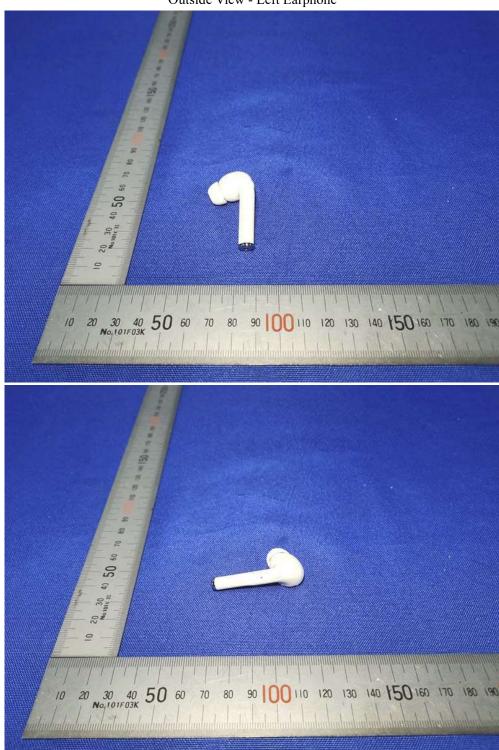
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Date: 2021-06-21



Outside View - Left Earphone



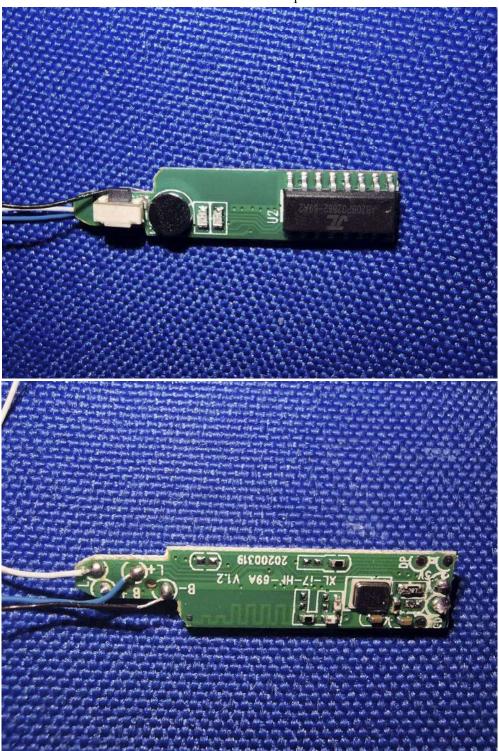
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Inside view - Left Earphone



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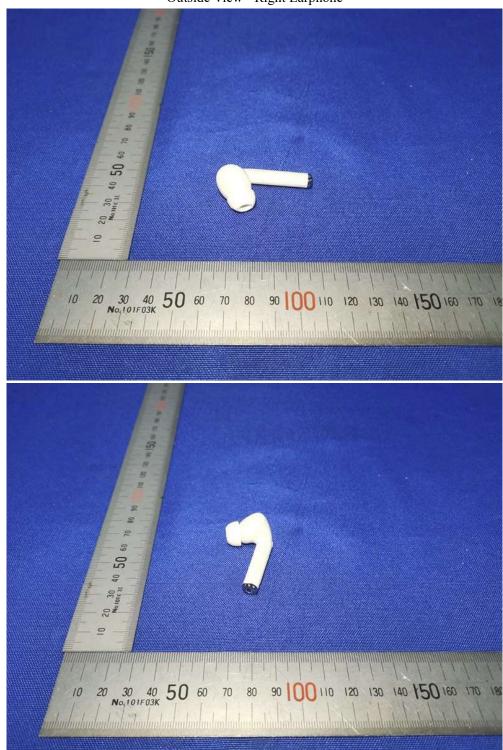
Inside view - Left Earphone



Date: 2021-06-21



Outside View - Right Earphone



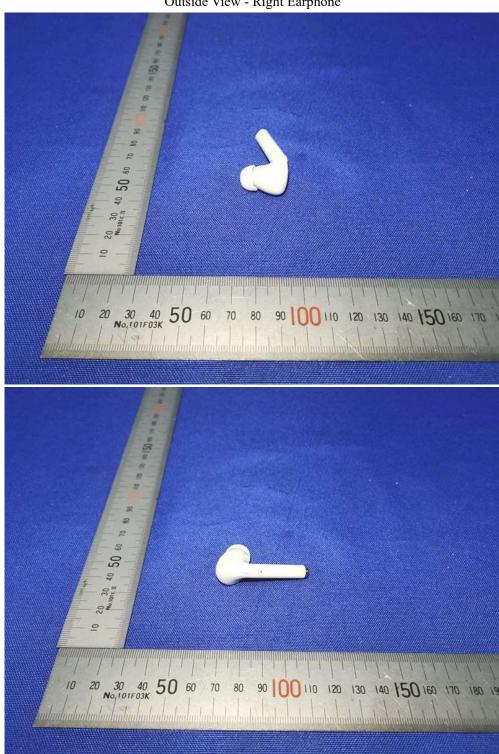
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Outside View - Right Earphone



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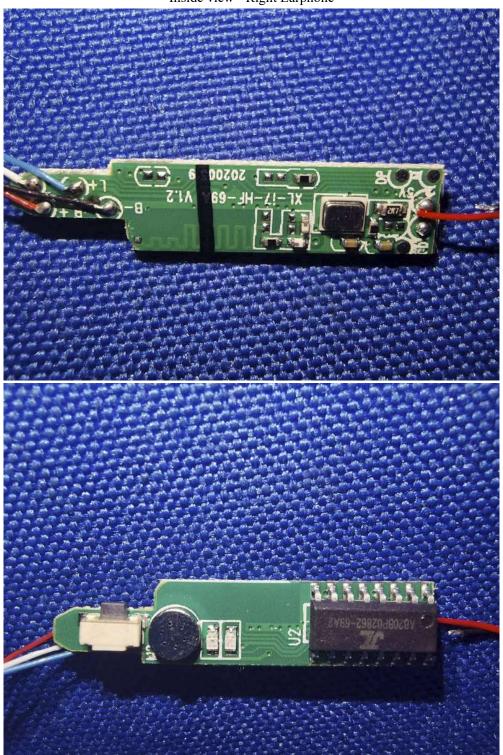
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Report No.: TW2106036E

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Inside view - Right Earphone



-- End of the report--

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