





TEST REPORT

Reference No	:	WTF23X10227452Y
Applicant	:	Mid Ocean Brands B.V.
Address	": ري	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer	÷	118144
Address	;s ^{er}	THATTER WATTE WATE SUPE AND AND A THE THE THE THE
Product Name	:	ABS TWS earbuds
Model No	: <	MO2206
Test specification	vn nur /st	EN 50332-2:2013: Sound system equipment: Headphones and earphones associated with personal music players - Maximum sound pressure level measurement methodology Part 2: Matching of sets with headphones if either or both are offered separately, or are offered as one package equipment but with standardized connectors between the two allowing to combine components of different manufacturers or different design
Date of Receipt sample	:	2023-11-10
Date of Test	÷	2023-11-10 to 2023-11-20
Date of Issue	: -1	2023-11-21
Test Report Form No	:/-	WTX_EN50332_2_2013A
Test Result	÷ /	Pass the state and white white white

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By: Waltek Testing Group (Shenzhen) Co., Ltd.

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Tested by:

Ivan mang

Ivan Zhang

Approved by:

Harvid Wei



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Test item description:	ABS TWS earbuds
Trademark:	in which will be a set of the state
Model and/or type reference:	MO2206
Rating(s)	DC5V/ 1.0A
Test Laboratory	Waltek Testing Group (Shenzhen) Co., Ltd.
Address	1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd
su su st	Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

General product information:

The sample(s) tested complies with the requirements of EN 50332-2: 2013.

Model Differences:

N/A

Summary of testing:

All tests had been assessed for safety with respect to the above test specifications and found to comply with the requirements of the standards.



Fest case verdicts
Fest case does not apply to the test object : N(N/A)
Fest item does meet the requirement: P(Pass)
Fest item does not meet the requirement: F(Fail)
Degree of protection against moisture: IPX0
General remarks
The test result presented in this report relate only to the object(s) tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing aboratory.
The report would be invalid without specific stamp for test institute or the authority. The report would be invalid without the signatures of reporter and reviewer. (see Enclosure #)" refers to additional information appended to the report. (see appended table)" refers to a table appended to the report.
Remark:
Whether parts of tests for the product have been subcontracted to other labs:
f Yes, list the related test items and lab information: Fest items:
_ab information:



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24	L J J L EN	50332-2: 2013	m m
Clause	Requirement – Test	Result - Remark	Verdict

4	Basic conditions for specifications and measurements (For basic conditions on measurements of the maximum sound pressure level, reference is made to EN 50332-1.)	
4.1	General description	Р
NAL STER	The sound pressure level produced by headphones or earphones can be measured by subjective methods or by objective methods.	Р
whitek a	The reference method for evaluating the sound pressured level emitted by earphones is a psycho acoustic method known as "equal loudness" (EN60268-7)	Р
4.2	Measuring principle	Port Port
y where	The standard is based on the use of a Head and Torso Simulator (HATS) in accordance with IEC 60318-7	P
Whitek N	The sound pressure level measured by the ear simulator microphone represents the pressure found at eardrum level and differs from that of the free field pressure by the HATS transfer function	P

5 5	Player characteristics and methods of measure	ment	Р
5.1	Maximum output voltage Vm	a at at at a	×_N [™]
5.2	Method of measurement and conditions	which which where where	N
5.2.1	Input signal	the atter milet south	N N
inet w	Actual musical signals are continuously fluctuating in both amplitude and spectral contents and thus cannot be used as test signals	outlet wonthet wonthet wonthet	N.S.
et white	The test signal must therefore be a stationary wide-band signal, the spectral content of which is representative of the musical signals.	aret would would would would	N
whitek w	The test signal used to determine the maximum sound pressure level of headphones shall be programme simulation noise, as defined in HD 483.1 S2.	MALTER MALTER WALTER WALTER	Ń
5.2.2	Operating conditions	at let set set	ST N N
L	- By a established power supply	it was an in a	N
MALIN	- tolerance of nominal supply voltage	let write white white whi	Ň
Whitek.	- All controls are adjusted to maximum sound pressure level	- Tet stret wiret wiret	N



EN 50332-2: 2013				
Clause	Requirement – Test	Result - Remark	Verdict	
đ	- load of player output	with you want	N	
5.2.3	Method of measurement for analogue audio outputs	white white white	N	
er un	The measuring equipment shall conform to: - EN 61672-1, class 1 for (sound level meters); - EN61260, class 1 for (1/3 octave analysers).	white white white w	N	
whitek	The maximum output voltage Vm shall be defined as unweithted r.m.s. voltage at the load, using an averaging time of 30 s or more.	A NUTER MALLER MALLER	N	
5.2.4	Method of measurement for digital audio outputs	a at at	At SN	
in whi	The maximum output level Lm shall be defined as average of digital signal, using an averaging time of 30 s or more.	which which which we	N N	
A NUTER	The digital input test signal is defined in EN 50332-1 as -10 dBFS.	ret ret stat with	t of N of	

6	Headphone/Earphone characteristics and meth	ods of measurement	21 P - 2
6.1	Measuring equipment	at the set	× P
iet uni	The measuring equipment shall be in accordance with EN 61672-1when connected with a HATS microphone.	LIE MILL MALIN MALIE W	Set P SE
6.2	Simulated programme signal characteristic voltage	et anet whet where whit	P
6.3	Method of measurement arrangement and conditions	The street out of souther	P
6.3.1	Input signal	when we we are	P
er m	- is program simulation noise as defined in HD 483.1 S2	united writes white write a	Р
m	- according part 1, subclause 5.1	TET MUTCH WALT WALL WA	Р
6.3.2	Source impedance of analogue input devices	t at at set and	Р
- Str	- output impedance of the test signal source	water water with the	Р
6.3.3	Acoustical measurement method	atter miler water water	an ^{co} P an
6.3.4	Headphones / earphones fit	the statest	
4	- Position correctly for measuring maximum sound pressure	nut whit whit whe was	Р
me	- the manufacturer's instruction for correct use	the must some white white	P
6.3.5	Measure of evaluation	at the set set	Р



EN 50332-2: 2013				
Clause	Requirement – Test	Result - Remark	Verdict	
1. A.	- part 1, subclause 6.4	ma sur sur and	P	
men n	- sound pressure level reaches 94 dB SPL	LIP WALTER WALTE WALT	N/A	

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Table 2 – Classification of the characteristics to be specified

Subclause	Characteristics	Products	
5.1	Maximum output voltage	Player	
6.1	Wide band characteristic voltage	Headphones	

Measuring result:

5.1	Measuring result	N N N	
	SPL (dB)	Vmax (mV)	Criterion request(mV)
Left side	so the state	STER MUTER MAILE WAITE WA	
Right side	WILL WILL SUND WAL	S & At At S	et the state

6.3.5	Measuring result (SPL) (Part 1, 6.4)				с .Р .8
we we	Measurement No.1	Measurement No.2	Measurement No.3	Measurement No.4	Measurement No.5
Left side	89.12	89.09	89.10	89.10	89.11
Right side	89.39	89.35	89.36	89.35	89.36
Average	Left side:89.10	A	Right side:89.36	S Same a	ur m n

6.3.5	Measuring result (WBCV)		N/April
	SPL (dB)	Vwbcv (mV)	Criterion request(mV)
Left side	94	E white white white	≥75
Right side	94	1 11- 11t .	≥75 √

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Photo Documentation Model: MO2206



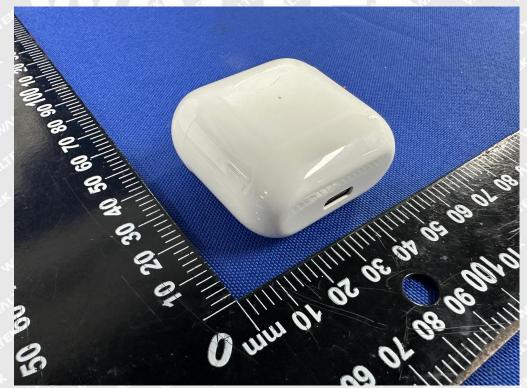


Photo 2

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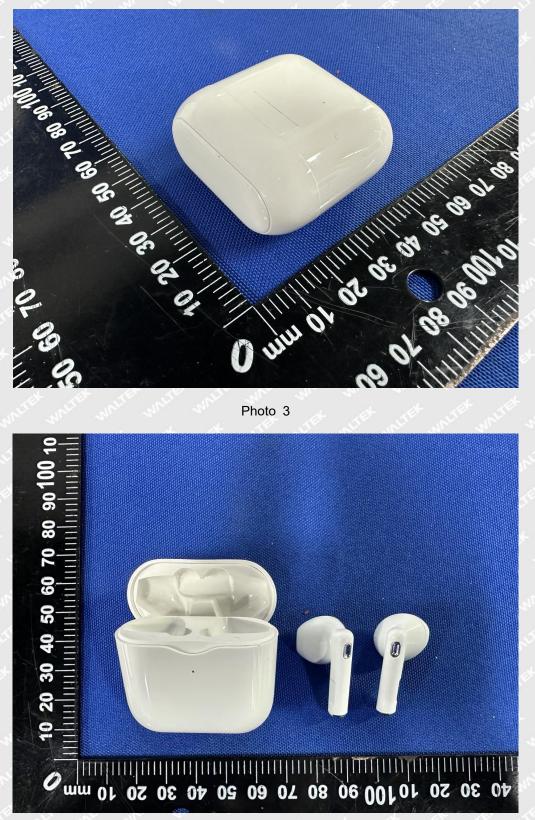


Photo 4

===== End of Report ======