



中国认可  
国际互认  
检测  
TESTING  
CNAS L4062



# TEST REPORT

**Reference No.** : WTF23X03037255W003  
**Manufacturer** : Mid Ocean Brands B.V.  
**Address** : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong  
**Factory** : 116629  
**Product Name** : ANC headphone and pouch  
**Model No.** : MO9920  
**Standards** : EN 55032:2015+A1:2020; EN 55035:2017+A11:2020  
EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A2:2021  
ETSI EN 301 489-1 V2.2.3 (2019-11)  
Draft ETSI EN 301 489-17 V3.2.5 (2022-08)  
**Date of Receipt sample** : 2023-03-02  
**Date of Test** : 2023-03-02 to 2023-03-21  
**Date of Issue** : 2023-03-21  
**Test Report Form No.** : WTX\_ESI EN 301 489\_1\_2019W  
**Test Result** : Pass

**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.

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## Report version

Version No.	Date of issue	Description
Rev.00	2023-03-21	Original
/	/	/

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## 1. GENERAL INFORMATION

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### 1.1 Product Description for Equipment Under Test (EUT)

<b>General Description of EUT</b>	
Product Name:	ANC headphone and pouch
Trade Name:	/
Model No.:	MO9920
Adding Model(s):	/
Rated Voltage:	DC 5V Battery DC 3.7V
Battery Capacity:	500mAh
Power Adapter:	/
Software Version:	V1.0
Hardware Version:	V1.1
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

<b>Technical Characteristics of EUT</b>	
<b>Bluetooth</b>	
Bluetooth Version:	Bluetooth V5.0(EDR Mode)
Frequency Range:	2402-2480MHz
Max.RF Output Power:	3.04dBm (EIRP)
Type of Modulation:	GFSK, π/4 DQPSK, 8DPSK
Data Rate:	1Mbps, 2Mbps, 3Mbps
Quantity of Channels	79
Channel Separation:	1MHz
Type of Antenna:	PCB Antenna
Antenna Gain:	0dBi
<i>Note: The Antenna Gain is provided by the customer and can affect the validity of results.</i>	



## 1.2 Test Standards

The tests were performed according to following standards:

**EN 55032:2015+A1:2020:** Electromagnetic compatibility of multimedia equipment - Emission requirements

**EN 55035:2017+A11:2020:** Electromagnetic compatibility of multimedia equipment - Immunity requirements.

**EN IEC 61000-3-2:2019+A1:2021:** Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase).

**EN 61000-3-3:2013+A2:2021:** Electromagnetic compatibility (EMC) -- Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection.

**ETSI EN 301 489-1 V2.2.3 (2019-11):** Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for Electromagnetic Compatibility.

**Draft ETSI EN 301 489-17 V3.2.5 (2022-08):** ElectroMagnetic Compatibility (EMC) standard for radio equipment and services;Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with the standard ETSI EN 301489-1, Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.



## 1.4 Test Facility

### Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

### FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. 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. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

### Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

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## 1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission/immunity level. The test modes were adapted according to the operation manual for use, more detailed description as follows:

<b>Test Mode List</b>			
Test Mode	Description	Remark	
TM1	Charging	Connect to the Adapter; AC230V 50Hz for Adapter	
TM2	2.4GHz Bluetooth Connect	Connect to the Adapter; AC230V 50Hz for adapter; Connect the phone	
TM3	AUX IN Connect	Connect to the Adapter; AC230V 50Hz for adapter; Connect the phone	
TM4	2.4GHz Bluetooth	TR, CR, TT, CT for EMS testing	

<b>EUT Cable List and Details</b>			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

<b>Special Cable List and Details</b>			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB Cable	1.02	Unshielded	Without Ferrite

<b>Auxiliary Equipment List and Details</b>			
Description	Manufacturer	Model	Serial Number
Notebook	Lenovo	E445	EB12648265
Mobile phone	HUAWEI	VOG-AL00	/
Adapter	FUSHIGANG	AS1201A-0502000USU	/



## 1.6 Performance Criteria for EMS

- EN 301 489-17, The performance criteria are:

- performance criteria A for immunity tests with phenomena of a continuous nature;
- performance criteria B for immunity tests with phenomena of a transient nature;
- performance criteria C for immunity tests with power interruptions exceeding a certain time.

The equipment shall meet the minimum performance criteria as specified in the following clauses.

Table 1: Performance criteria

Criteria	During test	After test
A	Shall operate as intended. (see note 1). Shall be no loss of function. Shall be no unintentional transmissions.	Shall operate as intended. Shall be no degradation of performance (see note 3). Shall be no loss of function. Shall be no loss of stored data or user programmable
B	May show loss of function (one or more). May show degradation of performance (see note 2). Shall be no unintentional transmissions.	Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no degradation of performance (see note 3). Shall be no loss of stored data or user programmable functions.
C	May be loss of function (one or more).	Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no degradation of performance (see note 3).



**NOTE 1:** Operate as intended during the test allows a level of degradation not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

**NOTE 2:** Degradation of performance during the test is understood as a degradation to a level not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

**NOTE 3:** No degradation of performance after the test is understood as no degradation below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. After the test no change of actual operating data or user retrievable data is allowed. If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

➤ **EN 55035, The performance criteria are:**

- A. The apparatus shall continue to operate as intended during and after the test. The manufacturer specifies some minimum performance level. The performance level may be specified by the manufacturer as a permissible loss of performance.
- B. The apparatus shall continue to operate as intended after the test. This indicates that the EUT does not need to function at normal performance levels during the test, but must recover. Again some minimal performance is defined by the manufacturer. No change in operating state or loss or data is permitted.
- C. Temporary loss of function is allowed. Operation of the EUT may stop as long as it is either automatically reset or can be manually restored by operation of the controls.



## 1.7 Measurement Uncertainty

<b>Measurement uncertainty</b>	
<b>Parameter</b>	<b>Uncertainty</b>
Uncertainty for Radiated Emission in 3m chamber	@ 30-200MHz $\pm 4.52\text{dB}$ @ 0.2-1GHz $\pm 5.56\text{dB}$ @ 1-6GHz $\pm 3.84\text{dB}$ @ 6-18GHz $\pm 3.92\text{dB}$
Uncertainty for Conducted Emission	@ 9-150kHz $\pm 3.74\text{dB}$ @ 0.15-30MHz $\pm 3.34\text{dB}$
Uncertainty for Harmonic test	3.26%
Uncertainty for Flicker test	4.76%
Uncertainty for RS test	21%, k=2
Uncertainty for CS test	29%, k=2
Uncertainty for ESD test	The immunity measurement system uncertainty is within standard requirement and is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%.
Uncertainty for EFT test	
Uncertainty for Surges test	
Uncertainty for Voltage Dips, Voltage Variations and Short Interruptions Test	
Uncertainty for PFMF test	



## 1.8 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
<input type="checkbox"/> Chamber A: Below 1GHz					
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2023-02-25	2024-02-24
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2023-02-25	2024-02-24
Amplifier	HP	8447F	2805A03475	2023-02-25	2024-02-24
Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19
Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-333	2023-03-22	2024-03-21
<input checked="" type="checkbox"/> Chamber A: Above 1GHz					
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2023-02-25	2024-02-24
Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2023-02-25	2024-02-24
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2023-02-25	2024-02-24
Amplifier	C&D	PAP-1G18	14918	2023-02-25	2024-02-24
Horn Antenna	ETS	3117	00086197	2021-03-19	2024-03-18
DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2021-03-19	2024-03-18
Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2023-02-25	2024-02-24
<input type="checkbox"/> Chamber B: Below 1GHz					
Trilog Broadband Antenna	Schwarzbeck	VULB9163(B)	9163-635	2021-04-09	2024-04-08
Amplifier	Agilent	8447D	2944A10179	2023-02-25	2024-02-24
EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2023-02-25	2024-02-24
<input checked="" type="checkbox"/> Chamber C: Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2023-02-25	2024-02-24
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1194	2021-05-28	2024-05-27
Amplifier	HP	8447F	2944A03869	2023-02-25	2024-02-24
<input type="checkbox"/> Chamber C: Above 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2023-02-25	2024-02-24
Horn Antenna	POAM	RTF-11A	LP228060221	2023-03-10	2026-03-09
Amplifier	Tonscend	TAP01018050	AP22E806235	2023-02-25	2024-02-24
<input checked="" type="checkbox"/> Conducted Room 1#					
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2023-02-25	2024-02-24
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2023-02-25	2024-02-24
AC LISN	Schwarzbeck	NSLK8126	8126-224	2023-02-25	2024-02-24
8-WIRE LISN	Schwarzbeck	8158	CAT3-8158-0059	2023-02-25	2024-02-24
8-WIRE LISN	Schwarzbeck	8158	CAT5-8158-0117	2023-02-25	2024-02-24
<input type="checkbox"/> Conducted Room 2#					
EMI Test Receiver	Rohde & Schwarz	ESPI	10129	2023-02-25	2024-02-24
LISN	Rohde & Schwarz	ENV 216	100097	2023-02-25	2024-02-24



EMF					
VDH Test Head	AFJ	VDH 30	SC022Z	2023-02-25	2024-02-24
3 Loop Antenna					
Loop Antenna	ZHINAN	ZN30401	19037	2023-02-25	2025-02-24
Clamp					
Clamp	Luthi	MDS21	3809	2023-02-27	2024-02-26
PFMF					
PMF Generator	LIONCEL	PMF-801C-C	0171101	2023-02-25	2024-02-24
PMF Antenna	LIONCEL	PMF-801C-A	0180302	2023-02-25	2024-02-24
Instantaneous PMF Generator Module	LIONCEL	PMF-801C-T	0171001	2023-02-25	2024-02-24
H/F					
Digital Power Analyzer	California Instrument	CTS	72831	2023-02-25	2024-02-24
Power Source	California Instrument	5001IX-CTS-400	25965	2023-02-25	2024-02-24
ESD					
ESD Generator	LIONCEL	ESD-203B	0170901	2023-03-14	2024-03-13
EFT/SURGE/DIPS					
Transient 2000	EMC PARTNER	TRA2000	863	2023-02-25	2024-02-24
Couple Clamp	EMC PARTNER	CN-EFT1000	513	2023-02-25	2024-02-24
CS					
CONDUCTED IMMUNITY TEST SYSTEM	FRANKONIA	CIT-10/75	126B1247/2013	2023-02-25	2024-02-24
Attenuator	EMTEST	MA-5100/6BF2	1009	2023-02-25	2024-02-24
CDN	Luthi	L-801M2/M3	2665	2023-02-25	2024-02-24
CDN	LIONCEL	CDN-T8	0210401	2023-02-25	2024-02-24
EM Clamp	TESEQ	KEMZ801A	45028	2023-02-25	2024-02-24
RS					
Signal Generator	HP	8688B	3438A00604	2023-02-25	2024-02-24
Power Meter	KEITHLEY	3500	1162591	2023-02-25	2024-02-24
Power Meter	KEITHLEY	3500	1121428	2023-02-25	2024-02-24
RF Power Amplifier	MicoTop	MPA-80-1000-250	MPA1906239	2023-02-25	2024-02-24
RF Power Amplifier	MicoTop	MPA-80-6000-100	MPA1906238	2023-02-25	2024-02-24
Antenna	SCHWARZBECK	STLP 9129	9129 114	N/A	N/A
Power Meter	Agilent	E4419B	GB42420578	2023-02-25	2024-02-24



<b>Software List</b>			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

\*Remark: indicates software version used in the compliance certification testing.

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## 2. SUMMARY OF TEST RESULTS

Standards	Reference	Description of Test Item	Result
ETSI EN 301 489-1	8.2	Radiated Emissions	Pass
	8.3	Conducted Emissions for DC Power Port	N/A
	8.4	Conducted Emissions for AC Power Port	Pass
	8.5	Harmonic Current Emissions	Pass
	8.6	Voltage Fluctuations and Flicker	Pass
	8.7	Telecommunication Ports	N/A
	9.2	Radio Frequency Electromagnetic Field	Pass
	9.3	Electrostatic Discharge	Pass
	9.4	Fast Transients, Common Mode	Pass
	9.5	Radio Frequency, Common Mode	Pass
	9.6	Transient and Surges in the Vehicular Environment	N/A
	9.7	Voltage Dips and Interruptions	Pass
	9.8	Surges	Pass
Pass: The EUT complies with the essential requirements in the standard. Fail: The EUT does not comply with the essential requirements in the standard. N/A: Not applicable.			

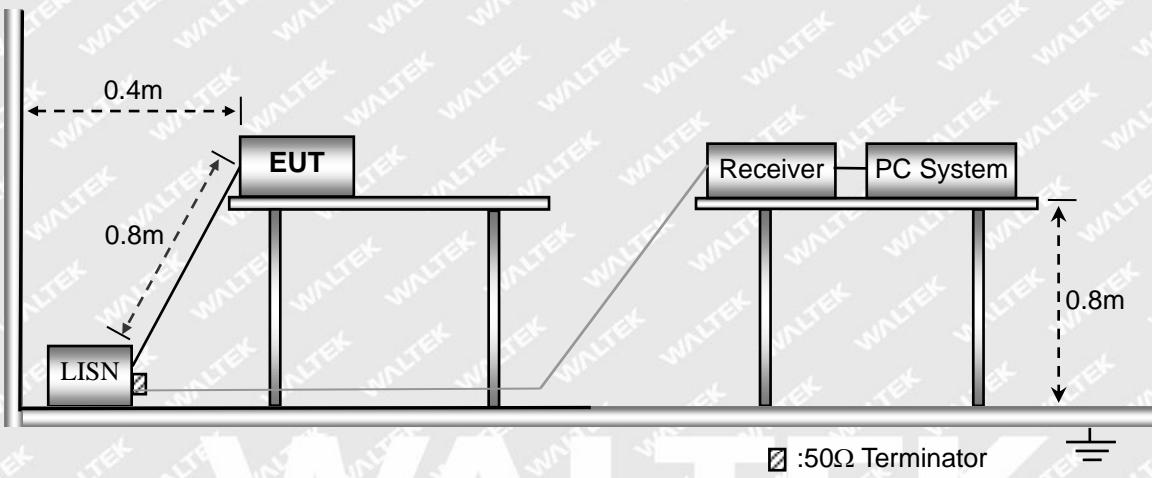


### 3. Conducted Emissions

#### 3.1 Test Procedure

Test is conducting under the description of EN55032 Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement.

#### 3.2 Basic Test Setup Block Diagram



#### 3.3 Environmental Conditions

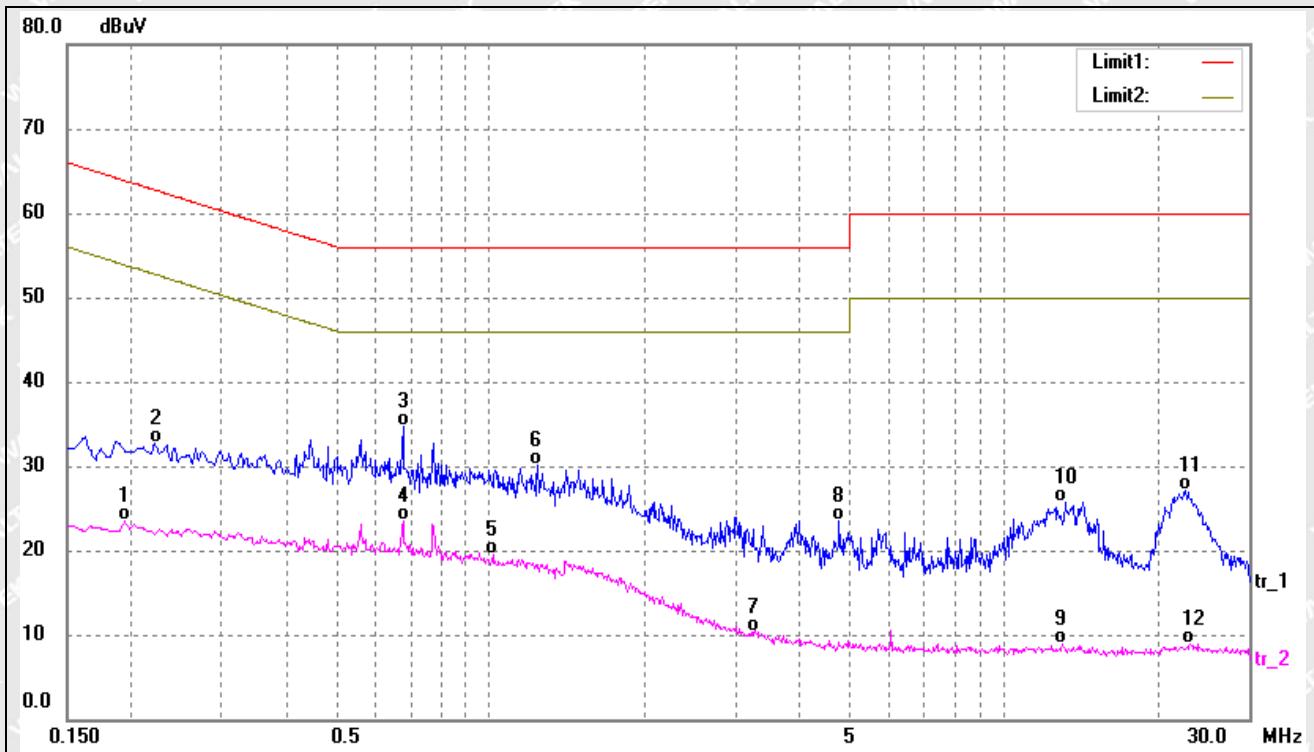
Temperature:	23.5° C
Relative Humidity:	54 %
ATM Pressure:	1015 mbar

#### 3.4 Conducted Emissions Test Data

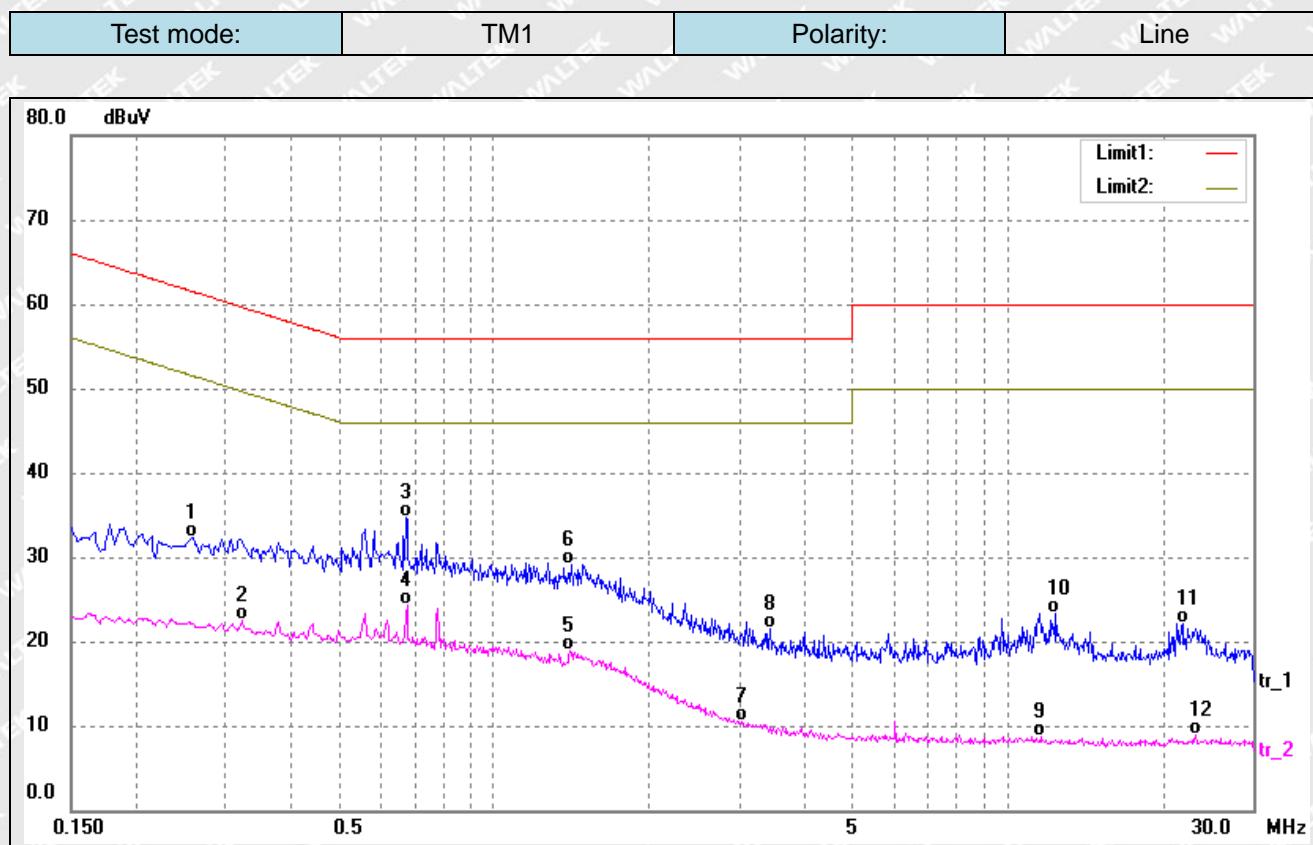
Note: Only show the worst case in the test report



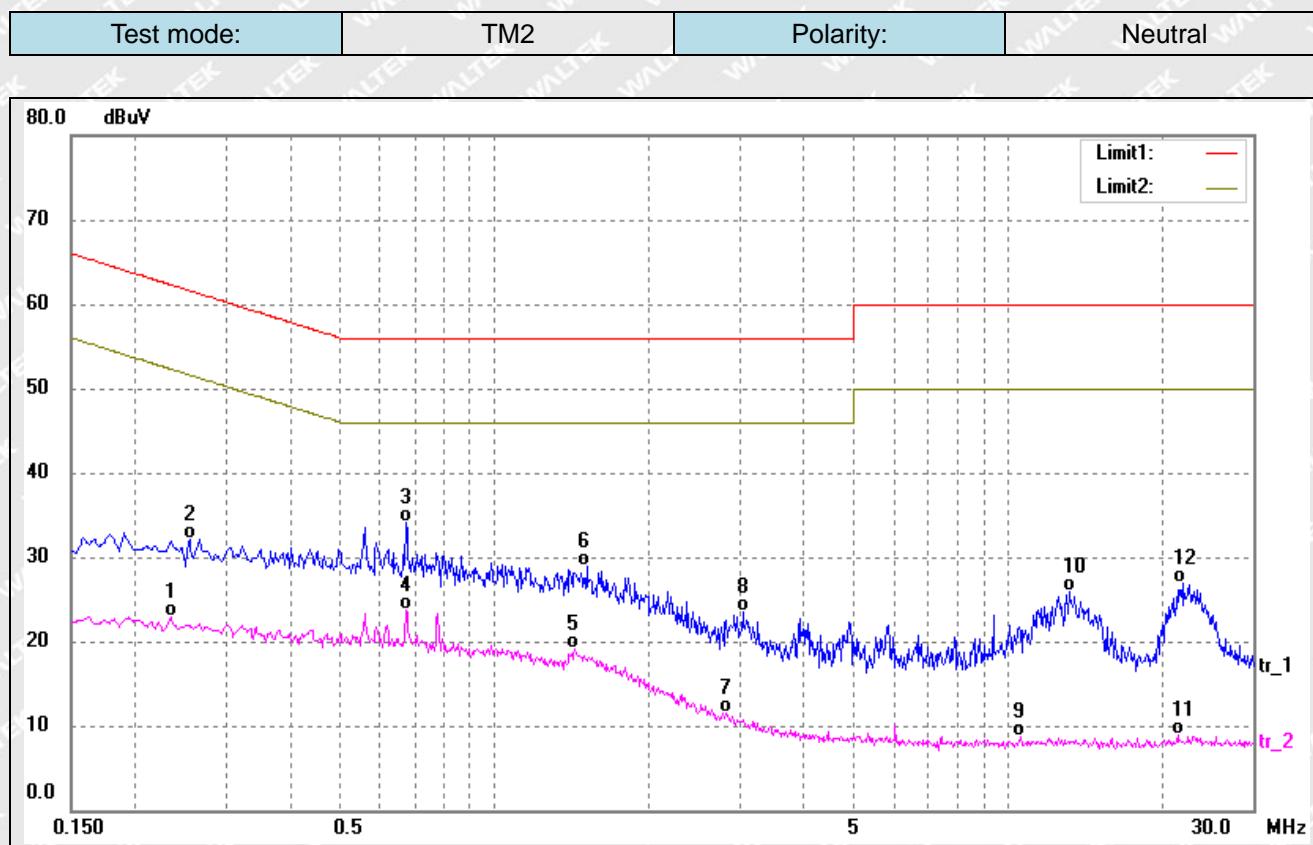
Test mode:	TM1	Polarity:	Neutral
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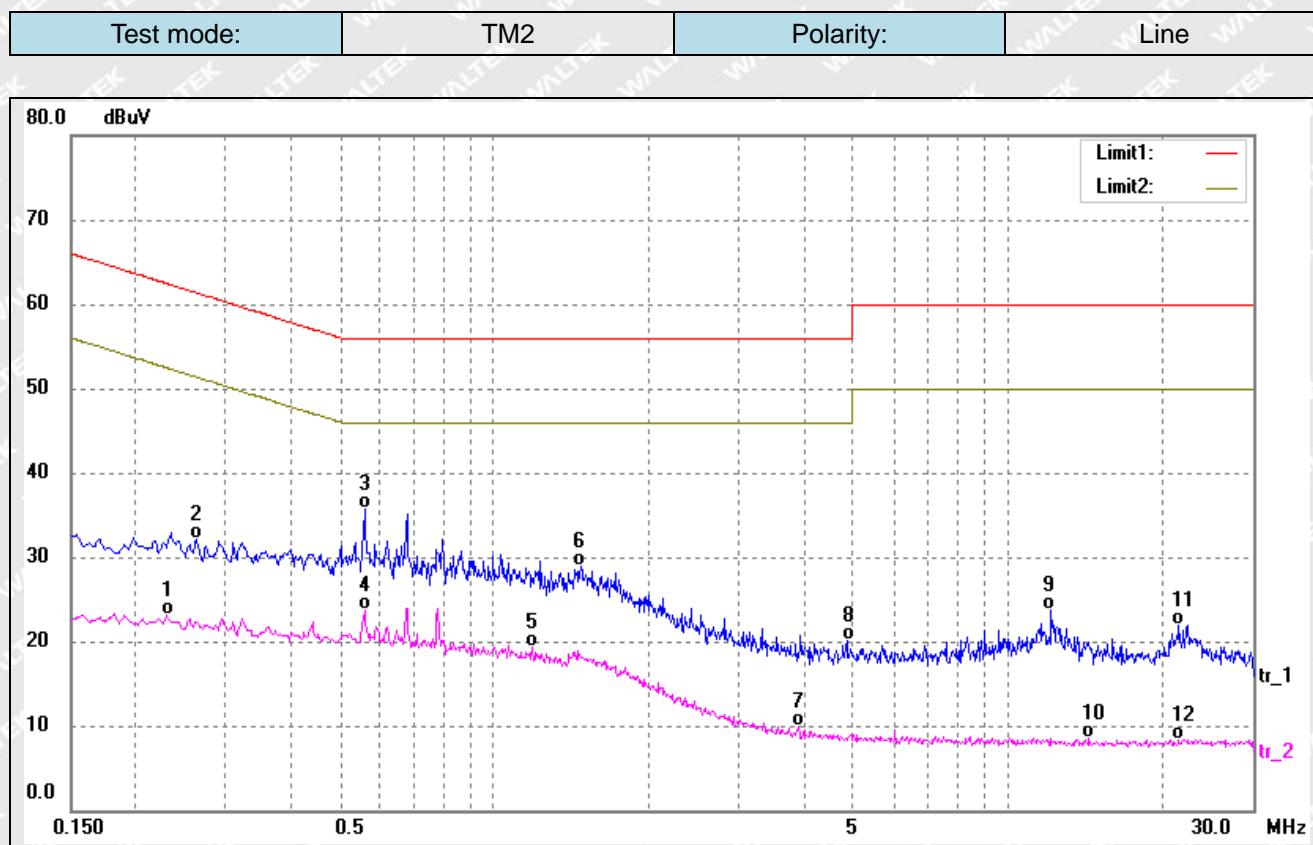
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1940	13.22	10.30	23.52	53.86	-30.34	AVG
2	0.2220	22.43	10.28	32.71	62.74	-30.03	QP
3*	0.6780	24.45	10.20	34.65	56.00	-21.35	QP
4	0.6780	13.35	10.20	23.55	46.00	-22.45	AVG
5	1.0140	9.44	10.14	19.58	46.00	-26.42	AVG
6	1.2380	20.02	10.16	30.18	56.00	-25.82	QP
7	3.3220	-0.01	10.29	10.28	46.00	-35.72	AVG
8	4.7740	13.20	10.32	23.52	56.00	-32.48	QP
9	13.0260	-1.29	10.28	8.99	50.00	-41.01	AVG
10	13.1820	15.43	10.28	25.71	60.00	-34.29	QP
11	22.5540	16.71	10.38	27.09	60.00	-32.91	QP
12	23.0260	-1.50	10.38	8.88	50.00	-41.12	AVG



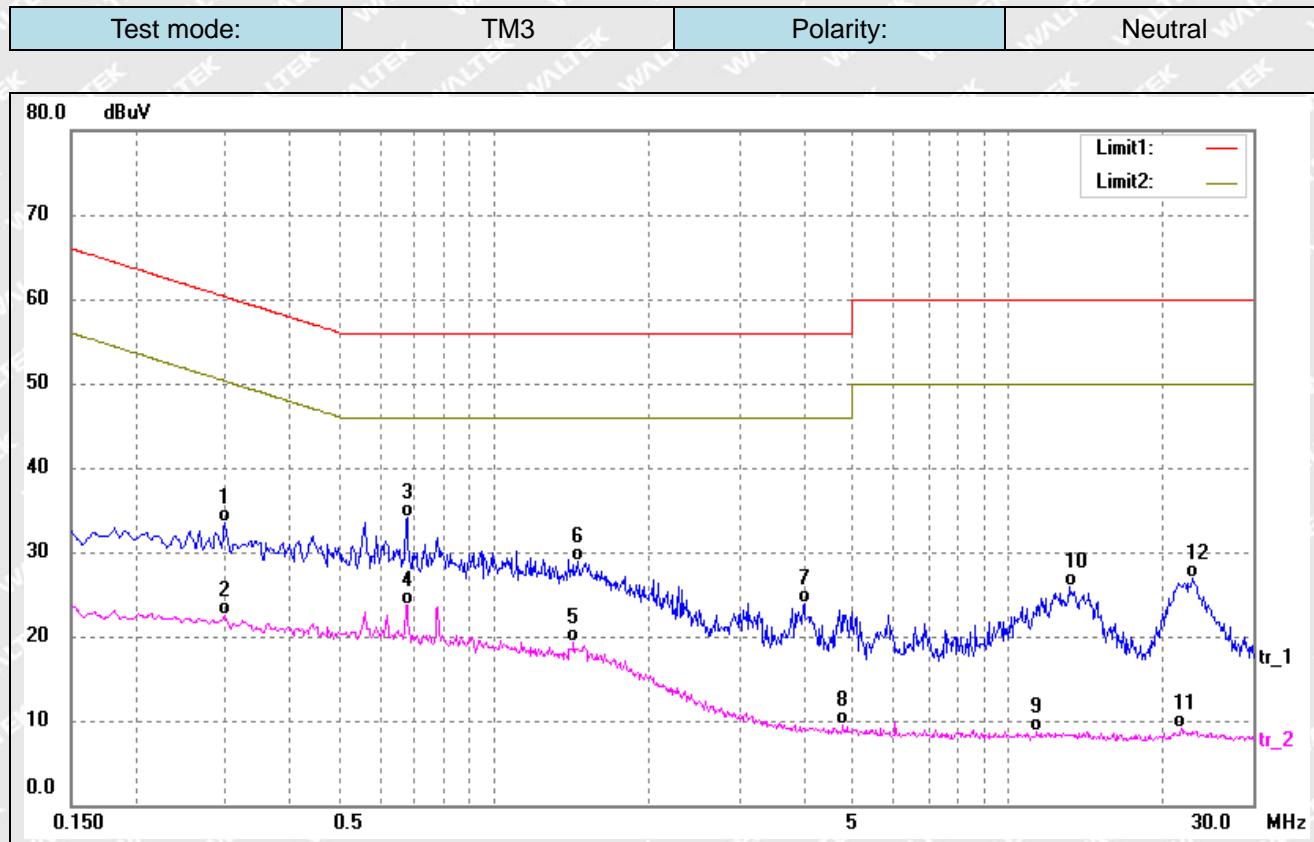
No.	Frequency (MHz)	Reading (dB <sub>uV</sub> )	Correct (dB)	Result (dB <sub>uV</sub> )	Limit (dB <sub>uV</sub> )	Margin (dB)	Detector
1	0.2580	22.06	10.26	32.32	61.49	-29.17	QP
2	0.3220	12.21	10.24	22.45	49.65	-27.20	AVG
3*	0.6740	24.48	10.20	34.68	56.00	-21.32	QP
4	0.6780	14.08	10.20	24.28	46.00	-21.72	AVG
5	1.4060	8.68	10.18	18.86	46.00	-27.14	AVG
6	1.4180	19.01	10.18	29.19	56.00	-26.81	QP
7	3.0380	0.25	10.28	10.53	46.00	-35.47	AVG
8	3.4500	11.31	10.29	21.60	56.00	-34.40	QP
9	11.6020	-1.57	10.32	8.75	50.00	-41.25	AVG
10	12.3979	13.07	10.30	23.37	60.00	-36.63	QP
11	21.8420	11.78	10.37	22.15	60.00	-37.85	QP
12	23.2020	-1.55	10.38	8.83	50.00	-41.17	AVG



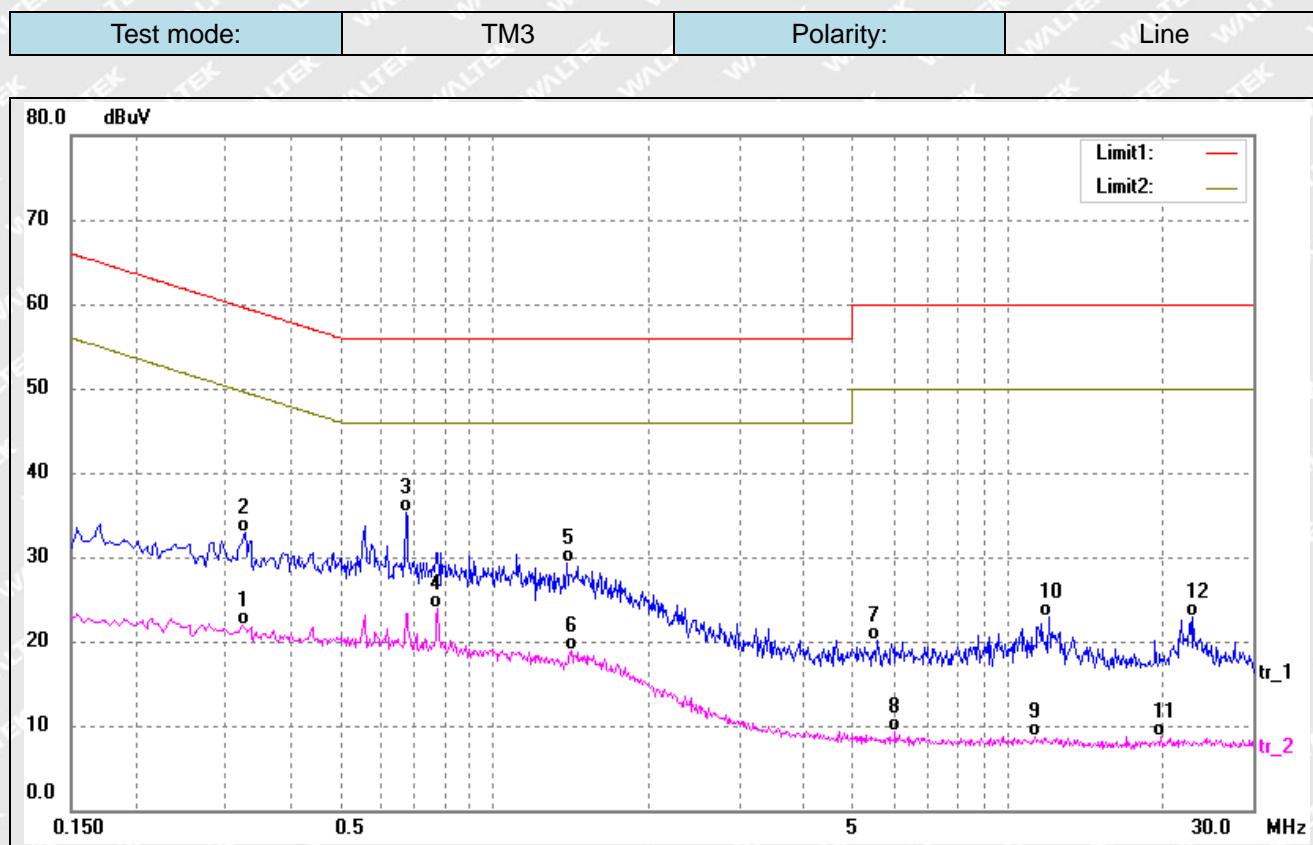
No.	Frequency (MHz)	Reading (dB <sub>uV</sub> )	Correct (dB)	Result (dB <sub>uV</sub> )	Limit (dB <sub>uV</sub> )	Margin (dB)	Detector
1	0.2340	12.59	10.27	22.86	52.30	-29.44	Avg
2	0.2540	21.83	10.26	32.09	61.62	-29.53	QP
3*	0.6740	23.96	10.20	34.16	56.00	-21.84	QP
4	0.6740	13.52	10.20	23.72	46.00	-22.28	Avg
5	1.4340	9.01	10.18	19.19	46.00	-26.81	Avg
6	1.5140	18.65	10.19	28.84	56.00	-27.16	QP
7	2.8380	1.29	10.27	11.56	46.00	-34.44	Avg
8	3.0420	13.14	10.28	23.42	56.00	-32.58	QP
9	10.5940	-1.73	10.34	8.61	50.00	-41.39	Avg
10	13.1620	15.60	10.28	25.88	60.00	-34.12	QP
11	21.3779	-1.42	10.37	8.95	50.00	-41.05	Avg
12	21.8620	16.55	10.37	26.92	60.00	-33.08	QP



No.	Frequency (MHz)	Reading (dB <sub>UV</sub> )	Correct (dB)	Result (dB <sub>UV</sub> )	Limit (dB <sub>UV</sub> )	Margin (dB)	Detector
1	0.2300	12.73	10.28	23.01	52.45	-29.44	Avg
2	0.2620	21.87	10.26	32.13	61.36	-29.23	QP
3*	0.5580	25.42	10.21	35.63	56.00	-20.37	QP
4	0.5580	13.51	10.21	23.72	46.00	-22.28	Avg
5	1.1860	9.15	10.16	19.31	46.00	-26.69	Avg
6	1.4780	18.70	10.19	28.89	56.00	-27.11	QP
7	3.9140	-0.40	10.30	9.90	46.00	-36.10	Avg
8	4.8620	9.71	10.33	20.04	56.00	-35.96	QP
9	12.1420	13.43	10.31	23.74	60.00	-36.26	QP
10	14.4060	-1.73	10.25	8.52	50.00	-41.48	Avg
11	21.5620	11.58	10.37	21.95	60.00	-38.05	QP
12	21.5620	-1.99	10.37	8.38	50.00	-41.62	Avg



No.	Frequency (MHz)	Reading (dB <sub>UV</sub> )	Correct (dB)	Result (dB <sub>UV</sub> )	Limit (dB <sub>UV</sub> )	Margin (dB)	Detector
1	0.2980	23.33	10.24	33.57	60.30	-26.73	QP
2	0.2980	12.19	10.24	22.43	50.30	-27.87	AVG
3*	0.6780	23.92	10.20	34.12	56.00	-21.88	QP
4	0.6780	13.60	10.20	23.80	46.00	-22.20	AVG
5	1.4260	9.07	10.18	19.25	46.00	-26.75	AVG
6	1.4620	18.79	10.19	28.98	56.00	-27.02	QP
7	4.0140	13.66	10.30	23.96	56.00	-32.04	QP
8	4.7860	-0.87	10.32	9.45	46.00	-36.55	AVG
9	11.4220	-1.64	10.32	8.68	50.00	-41.32	AVG
10	13.1700	15.53	10.28	25.81	60.00	-34.19	QP
11	21.7180	-1.33	10.37	9.04	50.00	-40.96	AVG
12	22.9180	16.48	10.38	26.86	60.00	-33.14	QP

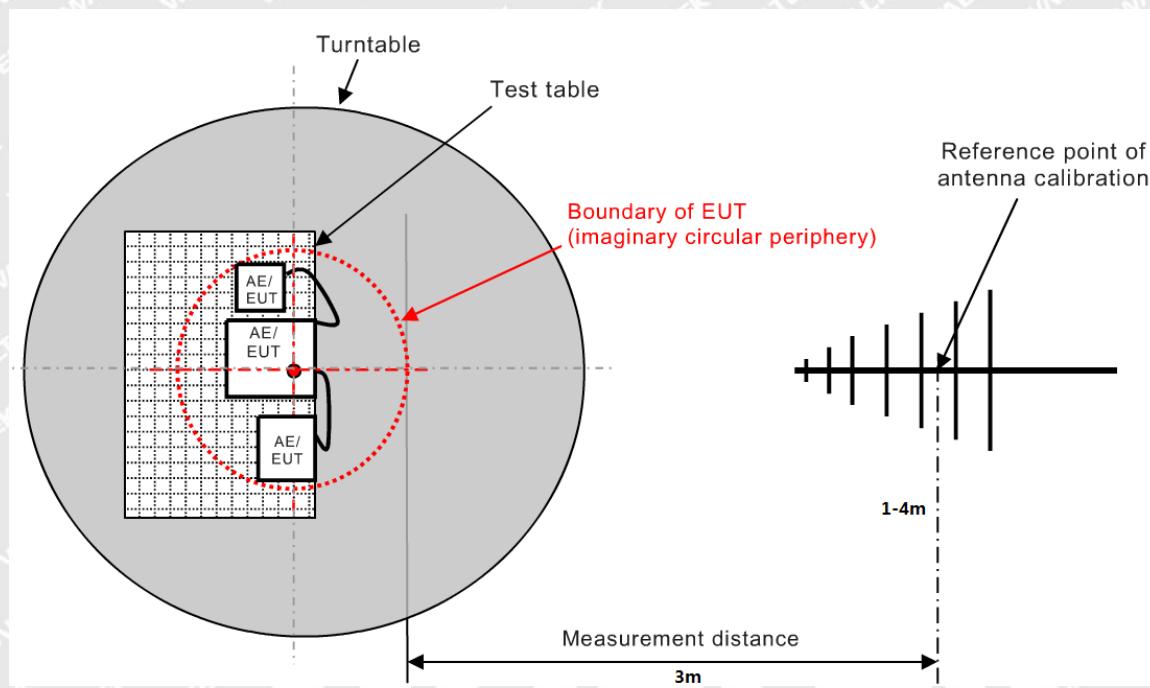


No.	Frequency (MHz)	Reading (dB <sub>uV</sub> )	Correct (dB)	Result (dB <sub>uV</sub> )	Limit (dB <sub>uV</sub> )	Margin (dB)	Detector
1	0.3220	11.73	10.24	21.97	49.65	-27.68	Avg
2	0.3260	22.59	10.24	32.83	59.55	-26.72	QP
3*	0.6740	25.07	10.20	35.27	56.00	-20.73	QP
4	0.7780	13.64	10.17	23.81	46.00	-22.19	Avg
5	1.3820	19.15	10.18	29.33	56.00	-26.67	QP
6	1.4180	8.64	10.18	18.82	46.00	-27.18	Avg
7	5.5780	9.84	10.33	20.17	60.00	-39.83	QP
8	6.0300	-0.96	10.33	9.37	50.00	-40.63	Avg
9	11.2780	-1.64	10.32	8.68	50.00	-41.32	Avg
10	11.9980	12.51	10.31	22.82	60.00	-37.18	QP
11	19.9020	-1.74	10.37	8.63	50.00	-41.37	Avg
12	22.9100	12.54	10.38	22.92	60.00	-37.08	QP

## 4. Radiated Emissions

### 4.1 Test Procedure

Test is conducting under the description of EN55032 Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement.



### 4.2 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of  $-6\text{dB}\mu\text{V}$  means the emission is  $6\text{dB}\mu\text{V}$  below the maximum limit for Class B device. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{EN 301489 Class B Limit}$$



### 4.3 Environmental Conditions

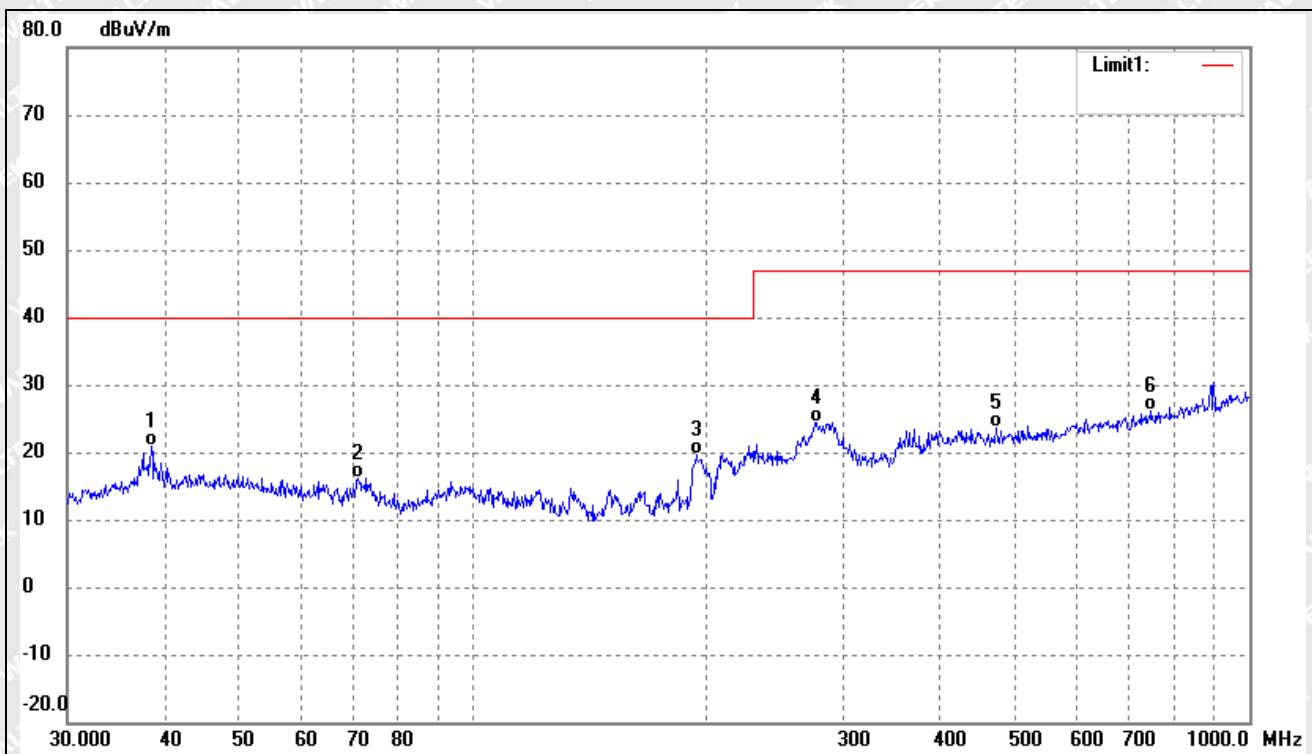
Temperature:	25° C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

### 4.4 Summary of Test Results/Plots

Note: Only show the worst case in the test report

➤ 30MHz to 1GHz

Test mode:	TM1	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	38.4809	31.95	-11.17	20.78	40.00	-19.22	-	-	QP
2	71.0803	31.66	-15.42	16.24	40.00	-23.76	-	-	QP
3	193.7728	32.39	-12.65	19.74	40.00	-20.26	-	-	QP
4	277.0935	34.50	-10.04	24.46	47.00	-22.54	-	-	QP
5	472.1760	28.88	-5.33	23.55	47.00	-23.45	-	-	QP
6	747.4825	28.19	-2.18	26.01	47.00	-20.99	-	-	QP

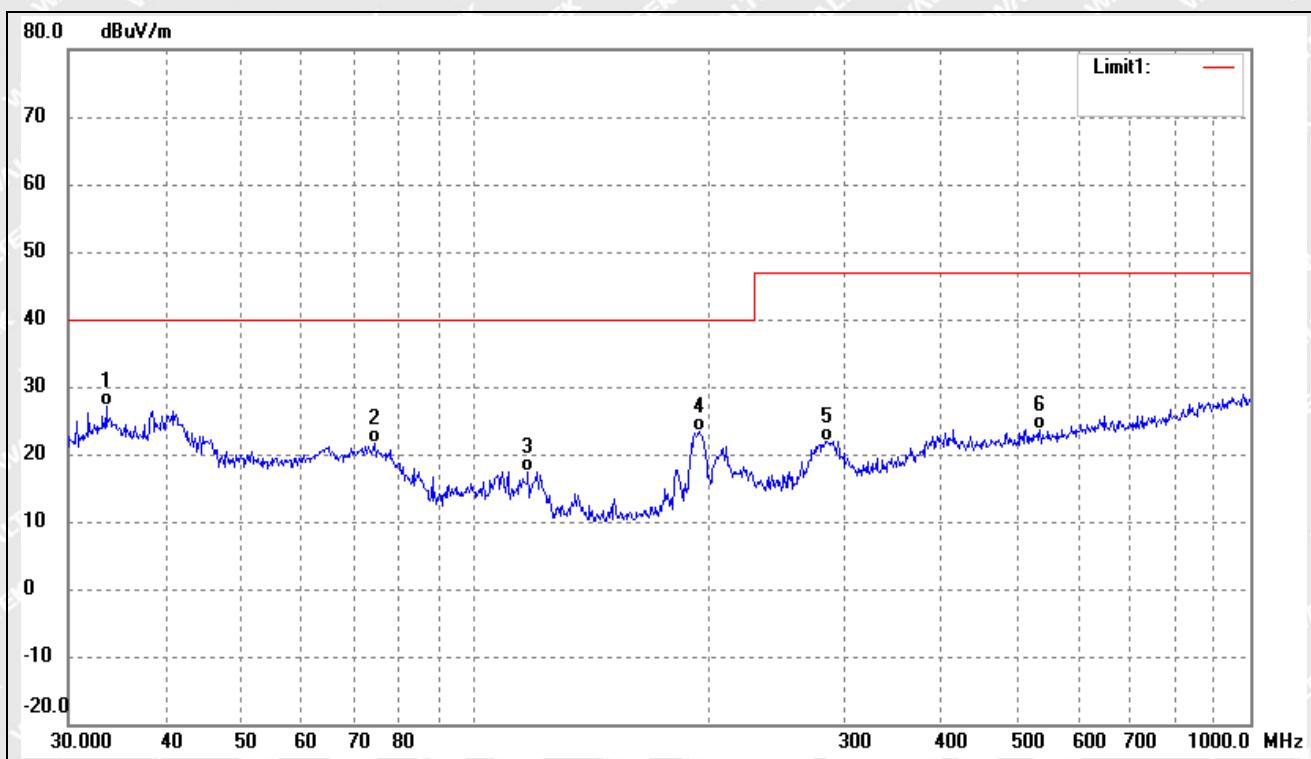


Test mode:

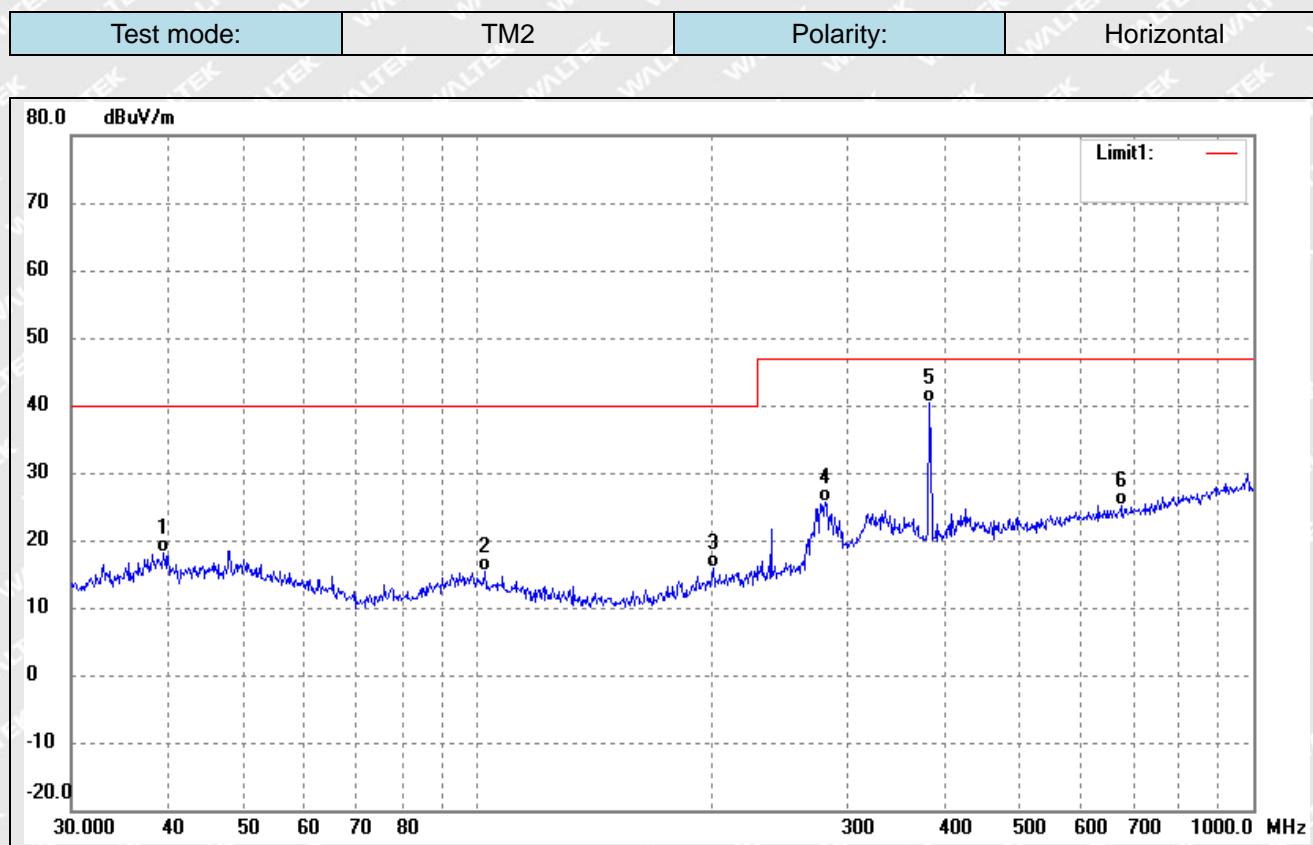
TM1

Polarity:

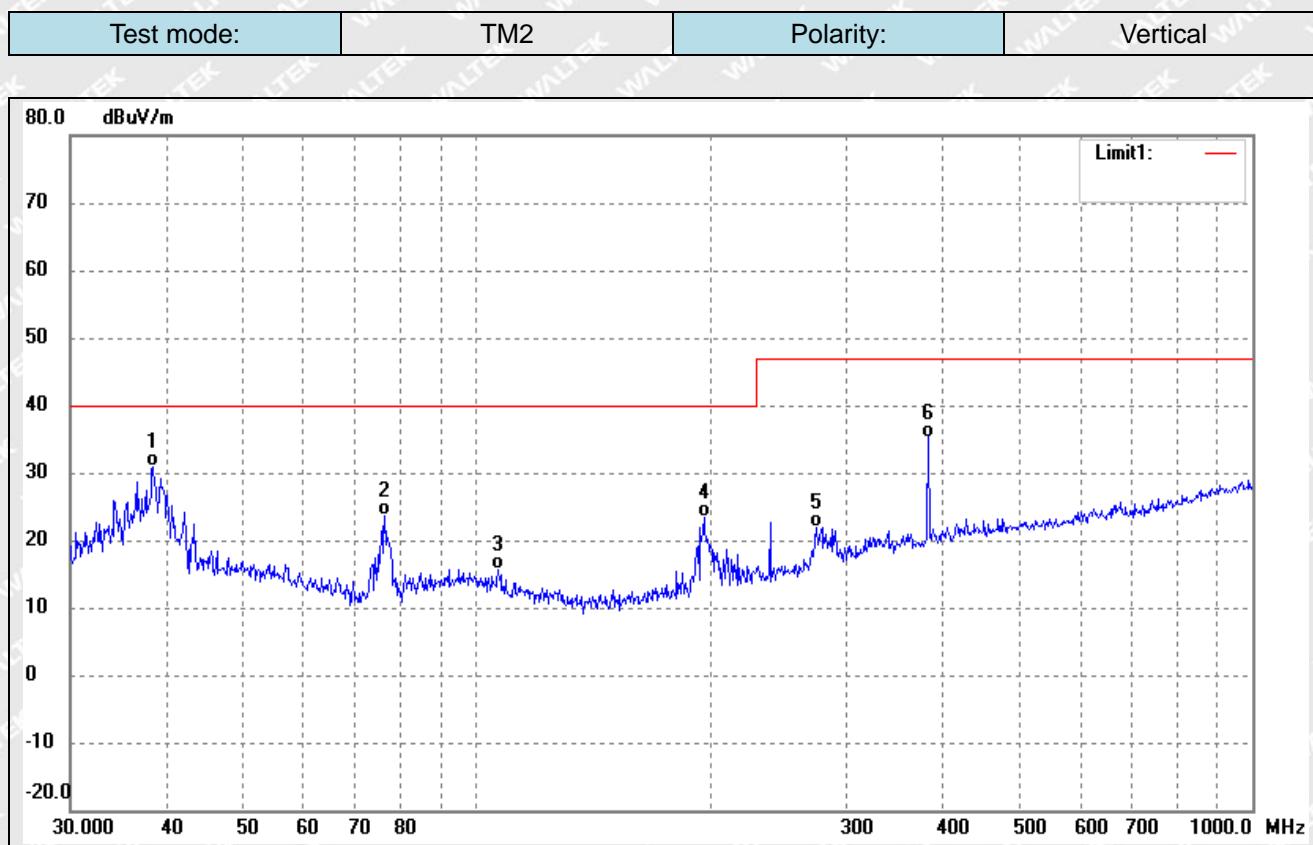
Vertical



No.	Frequency (MHz)	Reading (dB <sub>UV</sub> /m)	Correct dB/m	Result (dB <sub>UV</sub> /m)	Limit (dB <sub>UV</sub> /m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	33.5624	39.16	-12.05	27.11	40.00	-12.89	-	-	QP
2	74.3955	36.76	-15.19	21.57	40.00	-18.43	-	-	QP
3	117.3603	31.04	-13.58	17.46	40.00	-22.54	-	-	QP
4	195.1365	35.91	-12.60	23.31	40.00	-16.69	-	-	QP
5	284.9767	31.75	-9.80	21.95	47.00	-25.05	-	-	QP
6	535.7073	28.56	-4.82	23.74	47.00	-23.26	-	-	QP



No.	Frequency (MHz)	Reading (dB <sub>u</sub> V/m)	Correct dB/m	Result (dB <sub>u</sub> V/m)	Limit (dB <sub>u</sub> V/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	39.4371	29.11	-11.01	18.10	40.00	-21.90	-	-	QP
2	102.3597	27.46	-12.20	15.26	40.00	-24.74	-	-	QP
3	201.3930	28.19	-12.36	15.83	40.00	-24.17	-	-	QP
4	281.0075	35.45	-9.92	25.53	47.00	-21.47	-	-	QP
5	382.5879	47.18	-6.71	40.47	47.00	-6.53	-	-	QP
6	675.2080	28.25	-3.15	25.10	47.00	-21.90	-	-	QP



No.	Frequency (MHz)	Reading (dB $\mu$ V/m)	Correct dB/m	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Degree	Height (cm)	Remark
1	38.3462	42.12	-11.20	30.92	40.00	-9.08	-	-	QP
2	76.2442	38.67	-15.15	23.52	40.00	-16.48	-	-	QP
3	106.7587	27.97	-12.44	15.53	40.00	-24.47	-	-	QP
4	196.5098	35.95	-12.53	23.42	40.00	-16.58	-	-	QP
5	274.1939	32.13	-10.14	21.99	47.00	-25.01	-	-	QP
6	382.5879	41.96	-6.71	35.25	47.00	-11.75	-	-	QP

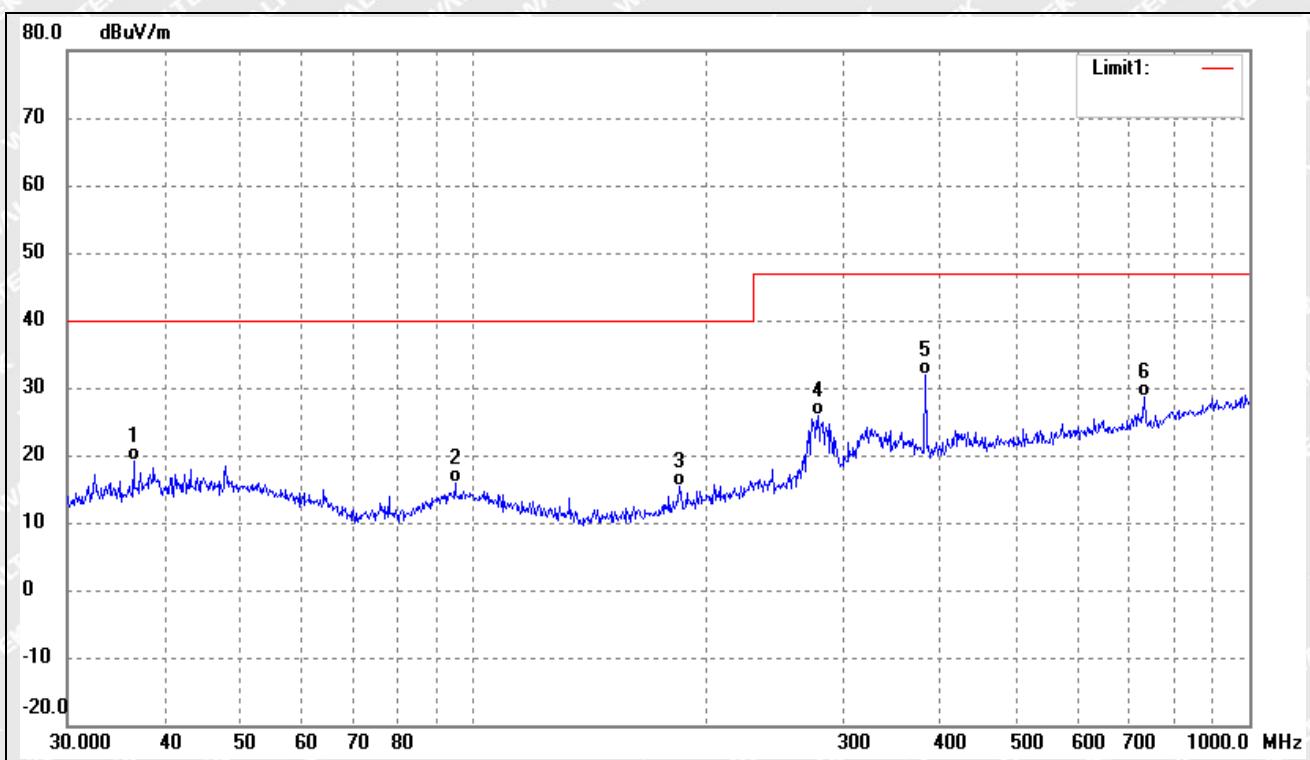


Test mode:

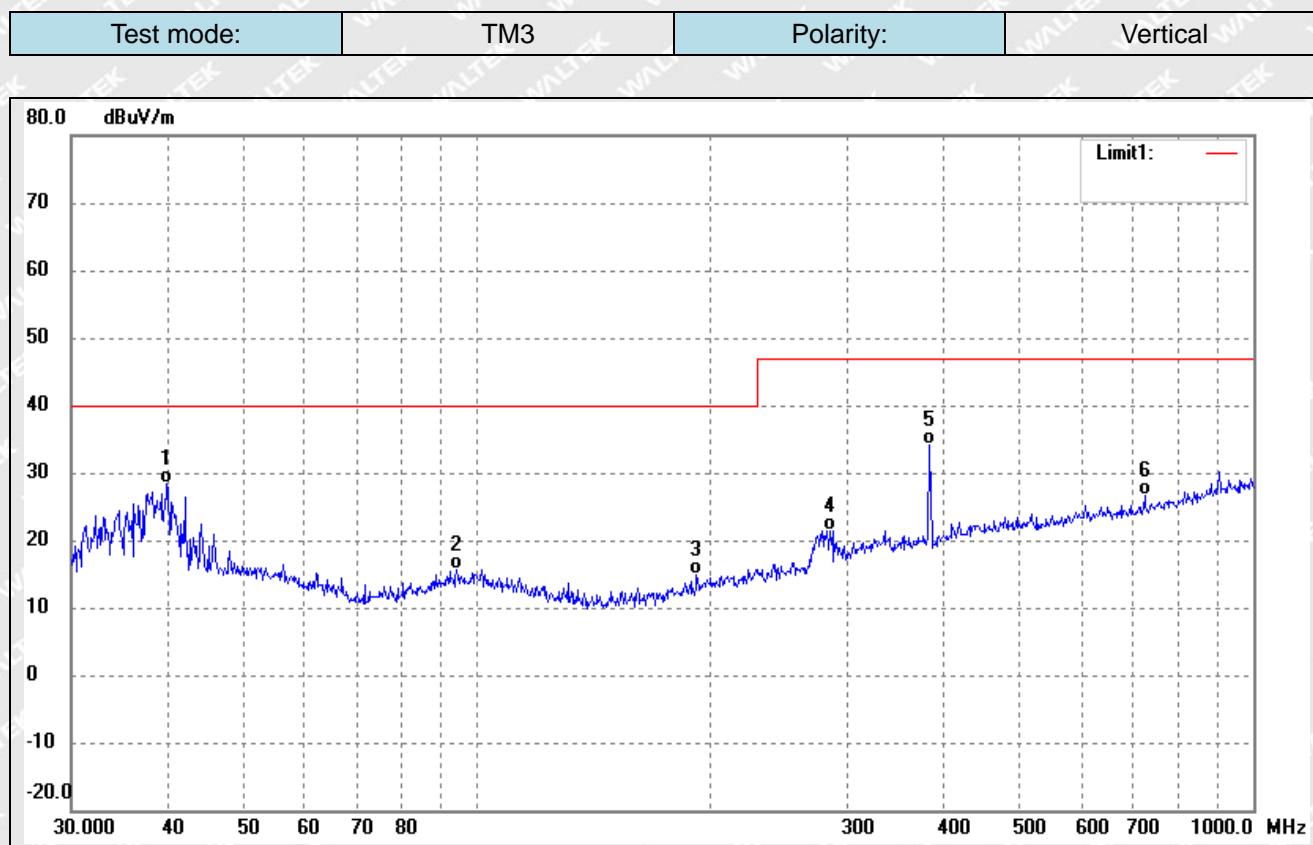
TM3

Polarity:

Horizontal



No.	Frequency (MHz)	Reading (dB $\mu$ V/m)	Correct dB/m	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Degree	Height (cm)	Remark
1	36.5092	30.62	-11.53	19.09	40.00	-20.91	-	-	QP
2	94.7601	28.31	-12.41	15.90	40.00	-24.10	-	-	QP
3	184.4898	28.75	-13.48	15.27	40.00	-24.73	-	-	QP
4	278.0668	35.84	-10.01	25.83	47.00	-21.17	-	-	QP
5	382.5879	38.64	-6.71	31.93	47.00	-15.07	-	-	QP
6	731.9203	31.01	-2.45	28.56	47.00	-18.44	-	-	QP

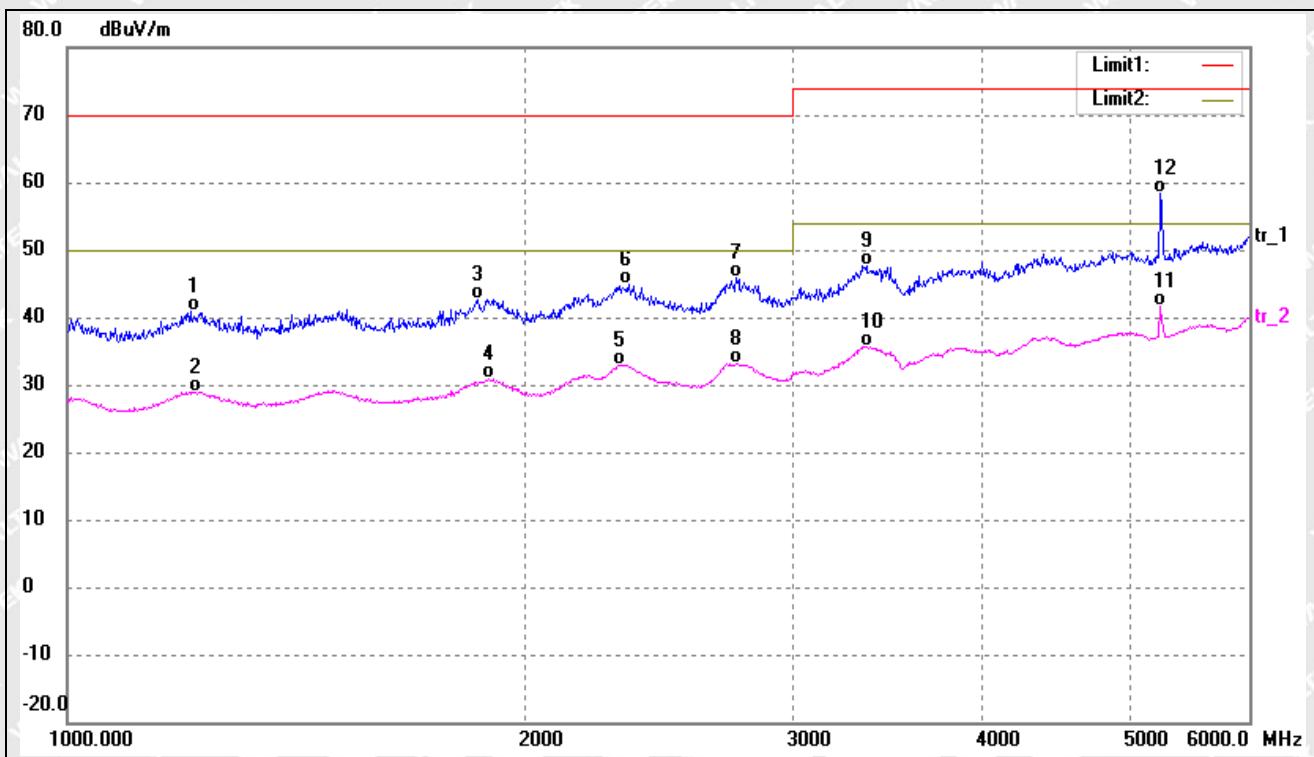


No.	Frequency (MHz)	Reading (dB $\mu$ V/m)	Correct dB/m	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Degree	Height (cm)	Remark
1	39.8542	39.35	-10.94	28.41	40.00	-11.59	-	-	QP
2	94.0979	28.05	-12.47	15.58	40.00	-24.42	-	-	QP
3	191.7450	27.50	-12.74	14.76	40.00	-25.24	-	-	QP
4	284.9767	31.29	-9.80	21.49	47.00	-25.51	-	-	QP
5	382.5879	40.81	-6.71	34.10	47.00	-12.90	-	-	QP
6	724.2611	29.27	-2.56	26.71	47.00	-20.29	-	-	QP



➤ Above 1GHz

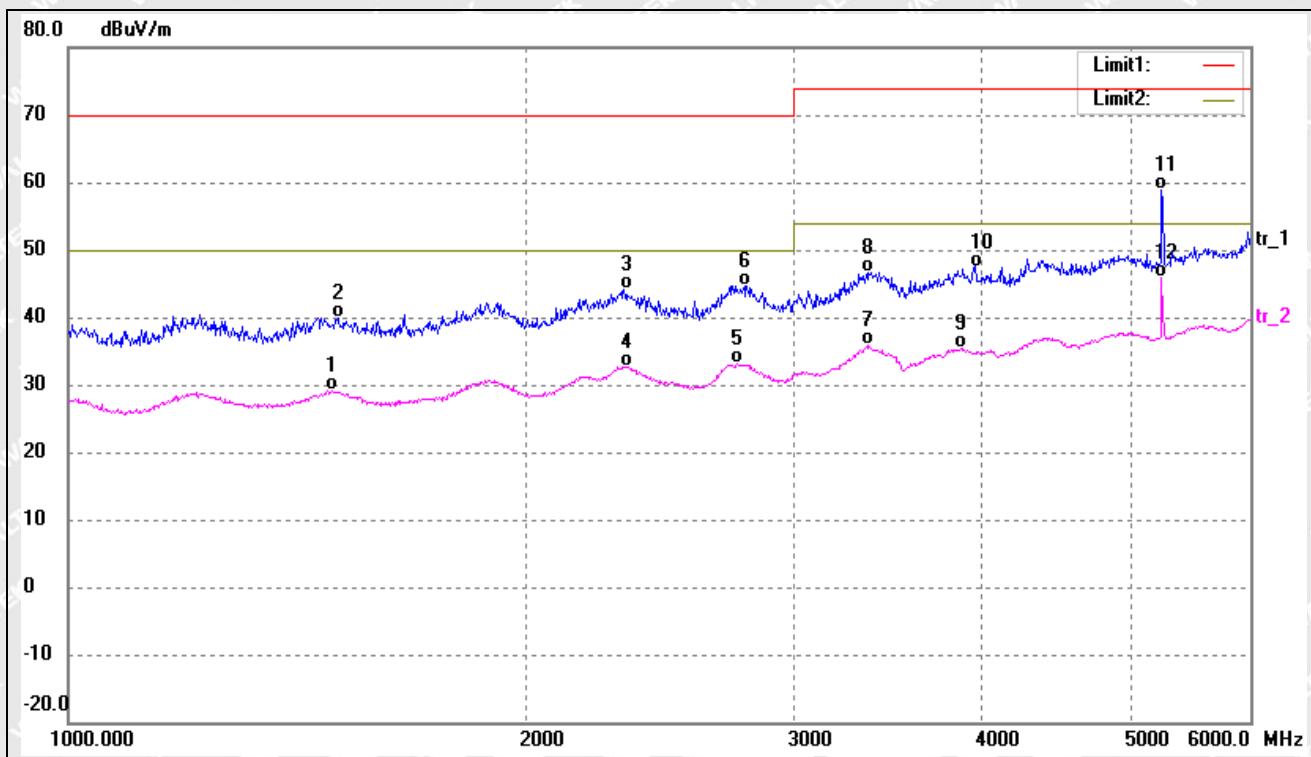
Test mode:	TM1(worst case)	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	1204.835	53.76	-12.88	40.88	70.00	-29.12	-	-	QP
2	1215.678	41.79	-12.83	28.96	50.00	-21.04	-	-	AVG
3	1862.166	53.07	-10.37	42.70	70.00	-27.30	-	-	QP
4	1895.833	41.23	-10.26	30.97	50.00	-19.03	-	-	AVG
5	2308.855	41.72	-8.78	32.94	50.00	-17.06	-	-	AVG
6	2342.189	53.57	-8.66	44.91	70.00	-25.09	-	-	QP
7	2756.980	53.66	-7.77	45.89	70.00	-24.11	-	-	QP
8	2756.980	40.91	-7.77	33.14	50.00	-16.86	-	-	AVG
9	3357.610	53.78	-6.17	47.61	74.00	-26.39	-	-	QP
10	3363.631	41.88	-6.14	35.74	54.00	-18.26	-	-	AVG
11	5236.146	43.63	-2.08	41.55	54.00	-12.45	-	-	AVG
12	5245.536	60.47	-2.07	58.40	74.00	-15.60	-	-	QP



Test mode:	TM1(worst case)	Polarity:	Vertical
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	1491.172	40.71	-11.62	29.09	50.00	-20.91	-	-	AVG
2	1504.591	51.34	-11.56	39.78	70.00	-30.22	-	-	QP
3	2321.299	52.82	-8.73	44.09	70.00	-25.91	-	-	QP
4	2325.462	41.46	-8.72	32.74	50.00	-17.26	-	-	AVG
5	2756.980	40.81	-7.77	33.04	50.00	-16.96	-	-	AVG
6	2796.783	52.37	-7.72	44.65	70.00	-25.35	-	-	QP
7	3363.631	42.08	-6.14	35.94	54.00	-18.06	-	-	AVG
8	3375.707	52.81	-6.10	46.71	74.00	-27.29	-	-	QP
9	3868.158	40.95	-5.69	35.26	54.00	-18.74	-	-	AVG
10	3952.228	53.20	-5.70	47.50	74.00	-26.50	-	-	QP
11	5245.536	60.91	-2.07	58.84	74.00	-15.16	-	-	QP
12	5245.536	48.01	-2.07	45.94	54.00	-8.06	-	-	AVG

Remark: '-'Means' the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

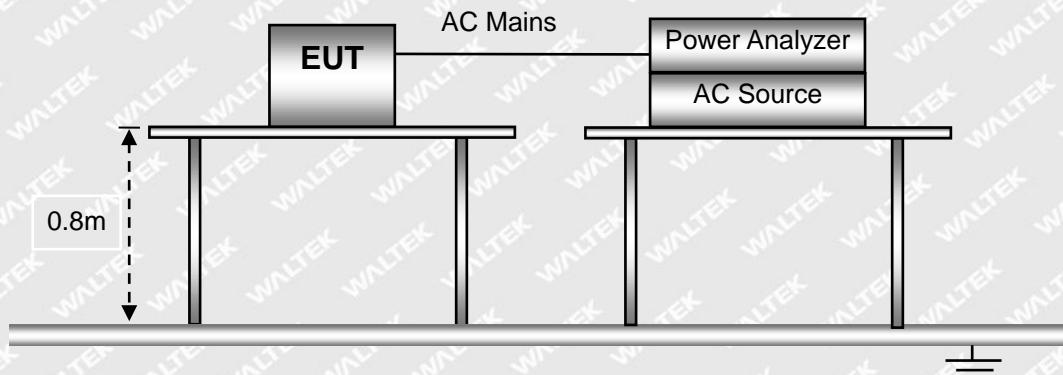


## 5. Harmonic Current Emissions

### 5.1 Test Procedure

Test is conducting under the description of EN 61000-3-2.

### 5.2 Test Setup Block Diagram



### 5.3 Test Standards

EN61000-3-2, Clause 7.1 Limits for Class A equipment.

### 5.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	55%
ATM Pressure:	1010 mbar

### 5.5 Harmonic Current Emissions Test Data



## Harmonics – Class-A

**Test category: Class-A (European limits)**

**Test Margin: 100**

**Test date: 2023/3/6**

**Start time: 16:23:32**

**End time: 16:26:13**

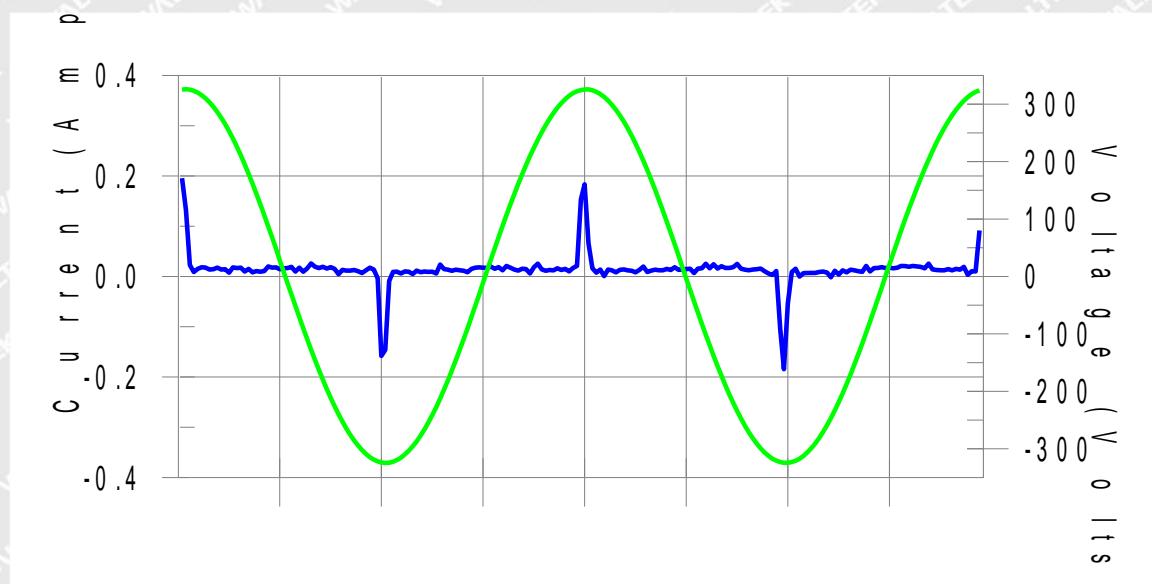
**Test duration (min): 2.5**

**Data file name: H-000440.cts\_data**

**Test Result: Pass**

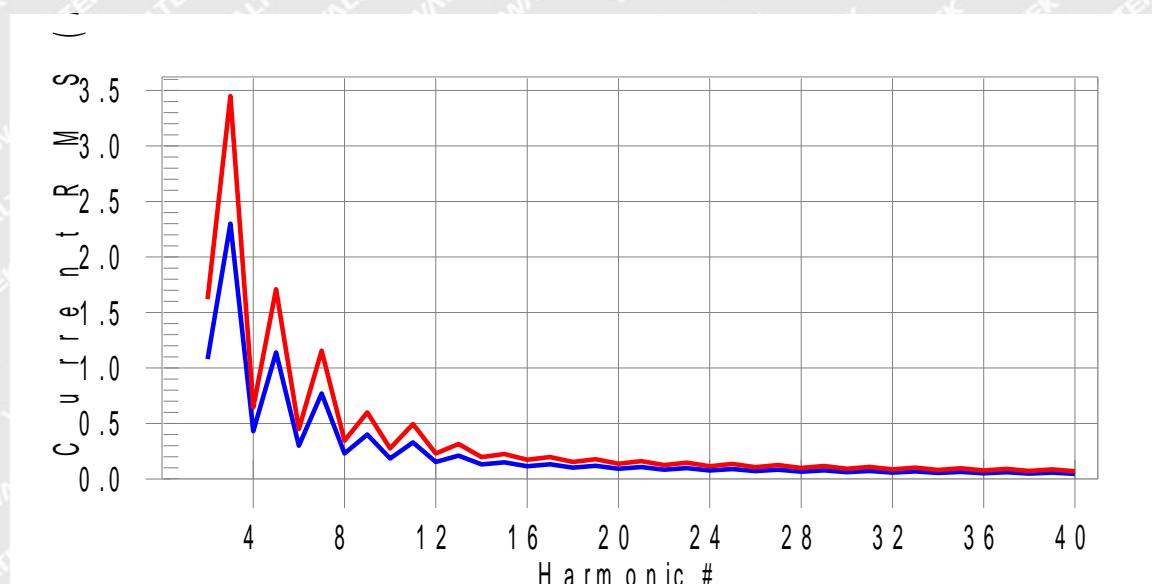
**Source qualification: Normal**

### Current & voltage waveforms



**Harmonics and Class A limit line**

**European Limits**



**Test result: Pass**

**Worst harmonics H21-4.3% of 150% limit, H23-6.1% of 100% limit**



## Current Test Result Summary (Run time)

**Test category: Class-A (European limits)**

**Test Margin: 100**

**Test date: 2023/3/6**

**Start time: 16:23:32**

**End time: 16:26:13**

**Test duration (min): 2.5**

**Data file name: H-000440.cts\_data**

**Test Result: Pass**

**Source qualification: Normal**

**THC(A): 0.029**

**I-THD(%): 254.2**

**POHC(A): 0.014**

**POHC Limit(A): 0.251**

**Highest parameter values during test:**

**V\_RMS (Volts): 230.08**

**Frequency(Hz): 50.00**

**I\_Peak (Amps): 0.227**

**I\_RMS (Amps): 0.036**

**I\_Fund (Amps): 0.011**

**Crest Factor: 6.483**

**Power (Watts): 2.6**

**Power Factor: 0.335**

<b>Harm#</b>	<b>Harms(avg)</b>	<b>100%Limit</b>	<b>%of Limit</b>	<b>Harms(max)</b>	<b>150%Limit</b>	<b>%of Limit</b>	<b>Status</b>
2	0.001	1.080	N/A	0.001	1.620	N/A	Pass
3	0.010	2.300	0.4	0.011	3.450	0.3	Pass
4	0.001	0.430	N/A	0.001	0.645	N/A	Pass
5	0.009	1.140	0.8	0.010	1.710	0.6	Pass
6	0.000	0.300	N/A	0.001	0.450	N/A	Pass
7	0.009	0.770	1.2	0.010	1.155	0.9	Pass
8	0.000	0.230	N/A	0.001	0.345	N/A	Pass
9	0.009	0.400	2.2	0.010	0.600	1.6	Pass
10	0.000	0.184	N/A	0.001	0.276	N/A	Pass
11	0.009	0.330	2.6	0.009	0.495	1.9	Pass
12	0.000	0.153	N/A	0.001	0.230	N/A	Pass
13	0.008	0.210	3.9	0.009	0.315	2.8	Pass
14	0.000	0.131	N/A	0.001	0.197	N/A	Pass
15	0.008	0.150	5.3	0.008	0.225	3.7	Pass
16	0.000	0.115	N/A	0.001	0.173	N/A	Pass
17	0.007	0.132	5.6	0.008	0.198	4.0	Pass
18	0.000	0.102	N/A	0.001	0.153	N/A	Pass
19	0.007	0.118	5.9	0.007	0.178	4.2	Pass
20	0.000	0.092	N/A	0.001	0.138	N/A	Pass
21	0.006	0.107	6.0	0.007	0.161	4.3	Pass
22	0.000	0.084	N/A	0.001	0.125	N/A	Pass
23	0.006	0.098	6.1	0.006	0.147	4.3	Pass
24	0.000	0.077	N/A	0.001	0.115	N/A	Pass
25	0.005	0.090	6.0	0.006	0.135	4.3	Pass
26	0.000	0.071	N/A	0.001	0.107	N/A	Pass
27	0.005	0.083	N/A	0.005	0.125	N/A	Pass



28	0.000	0.066	N/A	0.001	0.099	N/A	Pass
29	0.004	0.078	N/A	0.005	0.116	N/A	Pass
30	0.000	0.061	N/A	0.001	0.092	N/A	Pass
31	0.004	0.073	N/A	0.004	0.109	N/A	Pass
32	0.000	0.058	N/A	0.001	0.086	N/A	Pass
33	0.003	0.068	N/A	0.004	0.102	N/A	Pass
34	0.000	0.054	N/A	0.000	0.081	N/A	Pass
35	0.003	0.064	N/A	0.003	0.096	N/A	Pass
36	0.000	0.051	N/A	0.000	0.077	N/A	Pass
37	0.002	0.061	N/A	0.003	0.091	N/A	Pass
38	0.000	0.048	N/A	0.000	0.073	N/A	Pass
39	0.002	0.058	N/A	0.002	0.087	N/A	Pass
40	0.000	0.046	N/A	0.000	0.069	N/A	Pass

**WALTEK**



## Voltage Source Verification Data (Run time)

**Test category: Class-A (European limits)**

**Test Margin: 100**

**Test date: 2023/3/6**

**Start time: 16:23:32**

**End time: 16:26:13**

**Test duration (min): 2.5**

**Data file name: H-000440.cts\_data**

**Test Result: Pass**

**Source qualification: Normal**

**Highest parameter values during test:**

Voltage (Vrms):	230.08	Frequency(Hz):	50.00
I_Peak (Amps):	0.227	I_RMS (Amps):	0.036
I_Fund (Amps):	0.011	Crest Factor:	6.483
Power (Watts):	2.6	Power Factor:	0.335

Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.054	0.460	11.83	OK
3	0.505	2.070	24.41	OK
4	0.085	0.460	18.46	OK
5	0.059	0.920	6.44	OK
6	0.034	0.460	7.29	OK
7	0.022	0.690	3.25	OK
8	0.021	0.460	4.49	OK
9	0.013	0.460	2.73	OK
10	0.008	0.460	1.83	OK
11	0.011	0.230	4.83	OK
12	0.012	0.230	5.39	OK
13	0.017	0.230	7.36	OK
14	0.006	0.230	2.69	OK
15	0.006	0.230	2.57	OK
16	0.009	0.230	3.83	OK
17	0.017	0.230	7.45	OK
18	0.011	0.230	4.93	OK
19	0.013	0.230	5.80	OK
20	0.015	0.230	6.70	OK
21	0.013	0.230	5.72	OK
22	0.004	0.230	1.57	OK
23	0.009	0.230	3.89	OK
24	0.006	0.230	2.52	OK
25	0.011	0.230	4.60	OK
26	0.003	0.230	1.39	OK
27	0.008	0.230	3.39	OK
28	0.005	0.230	2.34	OK



29		0.011	0.230	4.94	OK
30		0.005	0.230	2.00	OK
31		0.009	0.230	3.82	OK
32		0.004	0.230	1.67	OK
33		0.009	0.230	3.91	OK
34		0.003	0.230	1.29	OK
35		0.007	0.230	3.23	OK
36		0.003	0.230	1.39	OK
37		0.008	0.230	3.53	OK
38		0.003	0.230	1.30	OK
39		0.008	0.230	3.41	OK
40		0.009	0.230	3.70	OK

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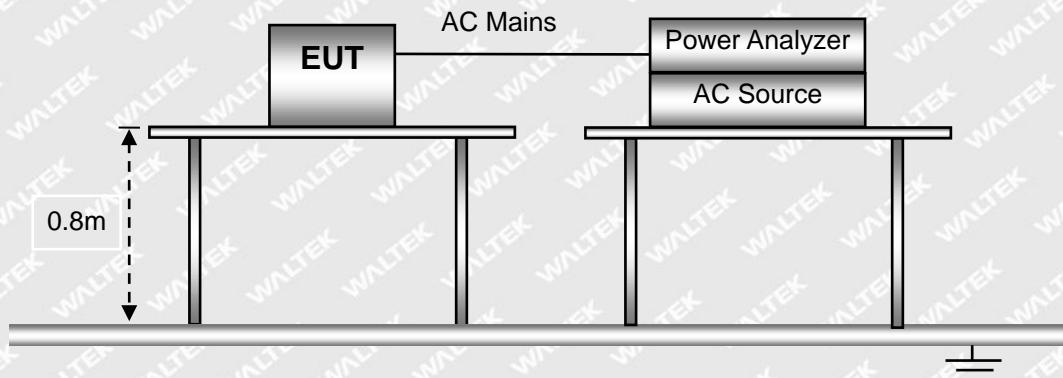


## 6. Voltage Fluctuation and Flicker

### 6.1 Test Procedure

Test is conducting under the description of EN 61000-3-3.

### 6.2 Test Setup Block Diagram



### 6.3 Test Standards

EN61000-3-3, Limit: Clause 5.

### 6.4 Environmental Conditions

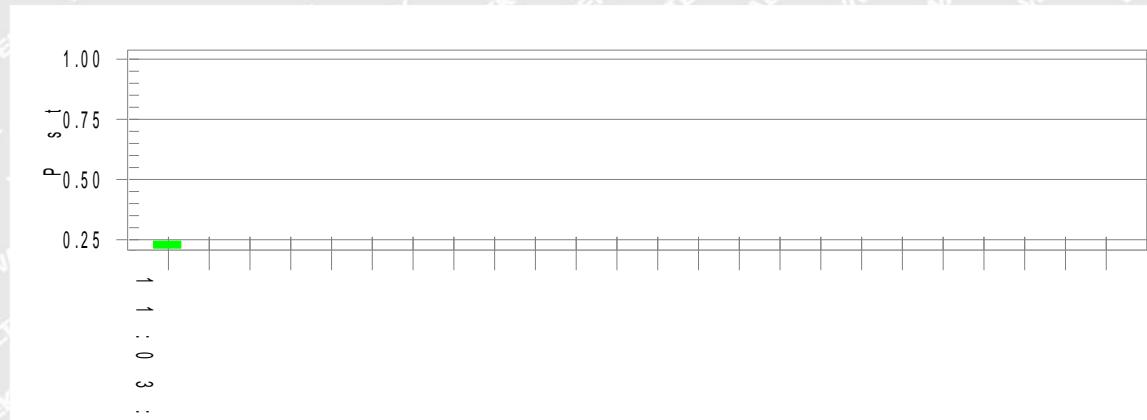
Temperature:	24 °C
Relative Humidity:	55%
ATM Pressure:	1010 mbar

### 6.5 Voltage Fluctuation and Flicker Test Data



Test mode:

TM1(worst case)

**Test Result: Pass****Status: Test Completed****Pst<sub>1</sub> and limit line****European Limits****Plt and limit line****Parameter values recorded during the test:**

Vrms at the end of test (Volt): 230.01

**Highest dt (%):**

T-max (mS): 0

**Test limit (%):**

Test limit (mS): 500.0 Pass

**Highest dc (%):**

Test limit (%): 3.30 Pass

**Highest dmax (%):**

Test limit (%): 4.00 Pass

**Highest Pst (10 min. period):** 0.244

Test limit: 1.000 Pass

**Highest Plt (2 hr. period):** 0.107

Test limit: 0.650 Pass

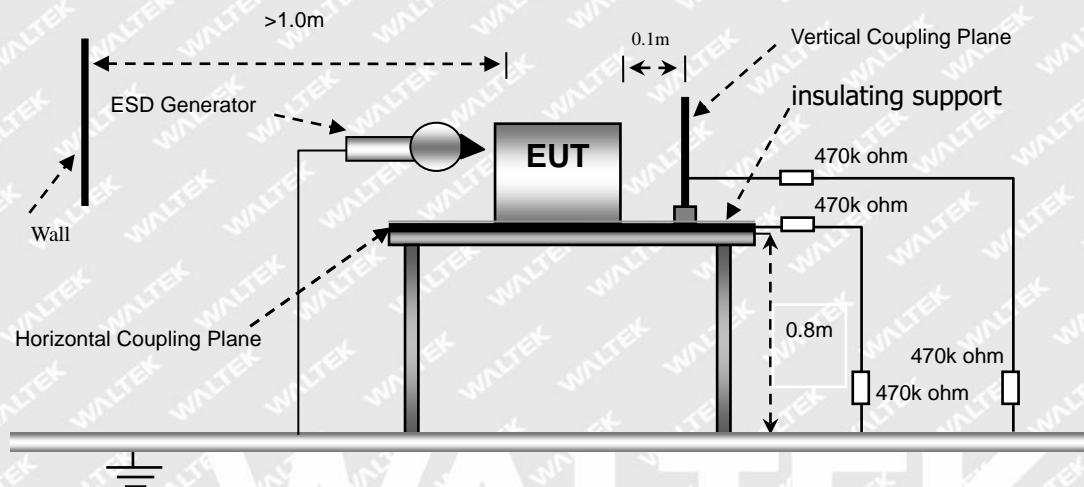


## 7. Electrostatic Discharge (ESD)

### 7.1 Test Procedure

Test is conducting under the description of EN 61000-4-2.

### 7.2 Test Setup Block Diagram



### 7.3 Test Performance

Performance Criterion:	Mode	Verdict
	TM1-TM4	B

Note: TM4 for TT, TR

### 7.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	55%
ATM Pressure:	1010 mbar

### 7.5 Electrostatic Discharge Immunity Test Data



Test mode	TM1-TM4							
EN 61000-4-2 Test Points	Test Levels (kV)							
	-2	+2	-4	+4	-6	+6	-8	+8
Air Discharge								
Button	A	A	A	A	A	A	B	B
USB Port	A	A	A	A	A	A	B	B
AUX Port	A	A	A	A	A	A	B	B
Enclosure	A	A	A	A	A	A	B	B
Direct Contact Discharge								
USB Port	A	A	A	A	/	/	/	/
Metal Screw	A	A	A	A	/	/	/	/
Enclosure	A	A	A	A	/	/	/	/
Indirect Contact Discharge								
HCP (6 Sides)	A	A	A	A	/	/	/	/
VCP (4 Sides)	A	A	A	A	/	/	/	/

Test Result: Pass

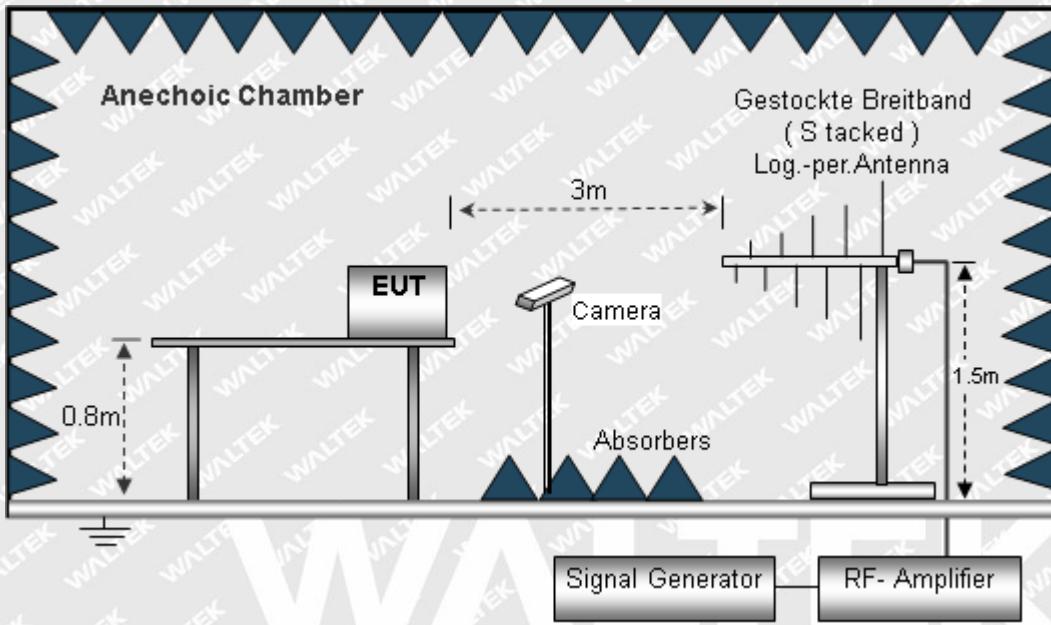
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## 8. Radio Frequency Electromagnetic Field (R/S)

### 8.1 Test Procedure

Test is conducting under the description of EN 61000-4-3.

### 8.2 Test Setup Block Diagram



### 8.3 Test Performance

Performance Criterion:	Mode	Verdict
	TM1-TM4	A

Note: TM4 for CT, CR

### 8.4 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	55%
ATM Pressure:	1010 mbar

### 8.5 Continuous Radiated Disturbances Test Data

Frequency step: 1% of fundamental

Dwell time: 1 second

Modulation: AM by 1kHz sine wave with 80% modulation depth



Test mode		TM1-TM4							
Frequency Range(MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-1000	3	A	A	A	A	A	A	A	A
1000-3000	3	A	A	A	A	A	A	A	A
3000-6000	3	A	A	A	A	A	A	A	A

Test Result: Pass

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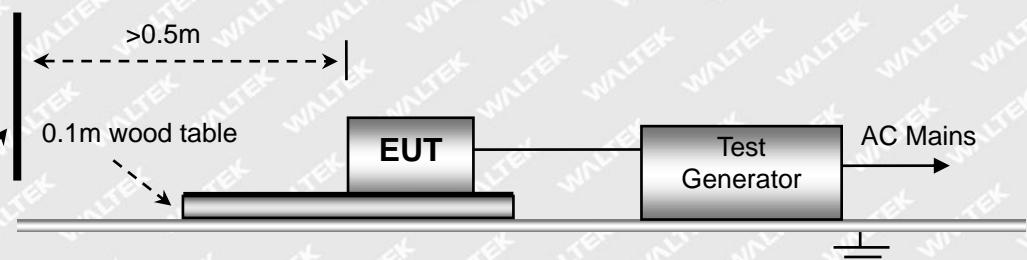
## 9. Fast Transients, Common Mode (EFT)

### 9.1 Test Procedure

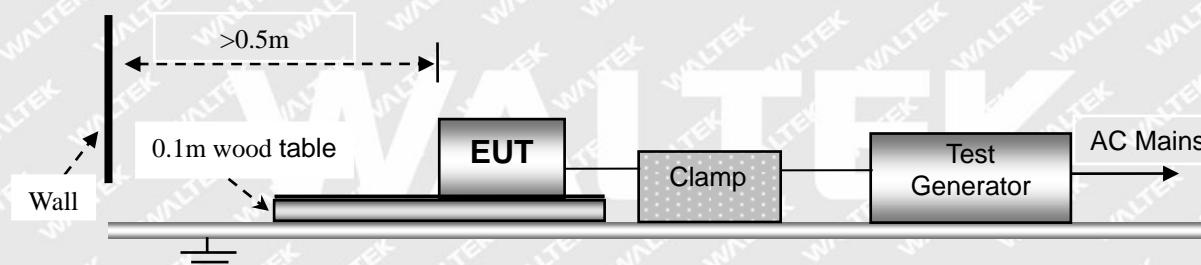
Test is conducting under the description of EN 61000-4-4.

### 9.2 Test Setup Block Diagram

For AC Mains or DC Ports:



For Signal or Telecommunication Ports:



### 9.3 Test Performance

Performance Criterion:	Mode	Verdict
	TM1-TM4	
Note: TM4 for TT,TR		

### 9.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	55%
ATM Pressure:	1010 mbar

### 9.5 Electrical Fast Transients Test Data



Test Mode		TM1-TM4							
EN 61000-4-4 Test Line		Test Levels (kV)							
		+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
AC Main Power port	L	A	A	A	A	/	/	/	/
	N	A	A	A	A	/	/	/	/
	PE	/	/	/	/	/	/	/	/
	L-N	A	A	A	A	/	/	/	/
	L-PE	/	/	/	/	/	/	/	/
	N-PE	/	/	/	/	/	/	/	/
	L-N-PE	/	/	/	/	/	/	/	/
Signal ports	/	/	/	/	/	/	/	/	/

Test Result: Pass



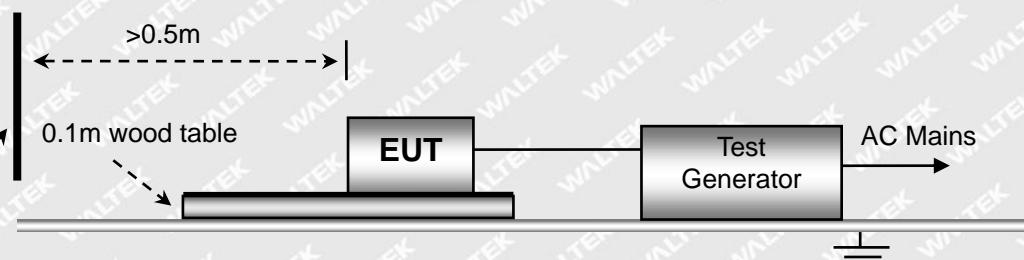
## 10. Surges

### 10.1 Test Procedure

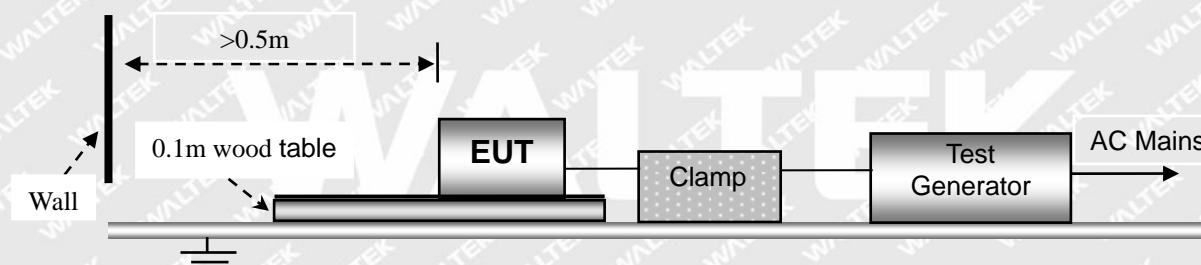
Test is conducting under the description of EN 61000-4-5.

### 10.2 Test Setup Block Diagram

For AC Mains or DC Ports:



For Signal or Telecommunication Ports:



### 10.3 Test Performance

Performance Criterion:	Mode	Verdict
	TM1-TM4	
Note: TM4 for TT,TR		

### 10.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	55%
ATM Pressure:	1010 mbar

### 10.5 Surge Test Data



Test Mode	TM1-TM4			
Voltage	Poll	Path	Pass	Fail
0.5kV	±	L-N	A	/
1kV	±	L-N	A	/
2kV	±	L-N, L-PE, N-PE	/	/
4kV	±	L-N, L-PE, N-PE	/	/

Test Result: Pass



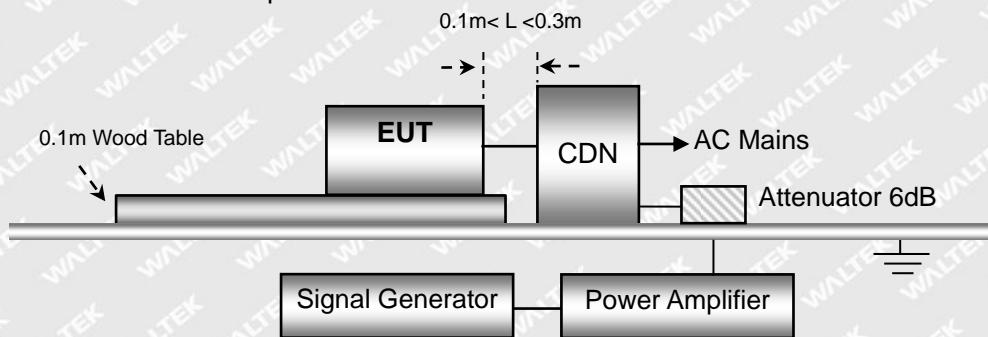
## 11. Radio Frequency, Common Mode (C/S)

### 11.1 Test Procedure

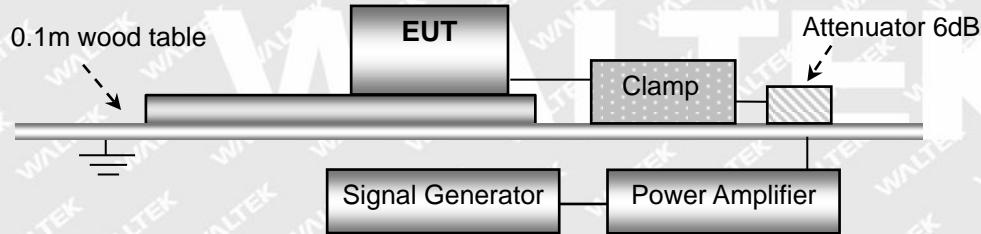
Test is conducting under the description of EN 61000-4-6.

### 11.2 Test Setup Block Diagram

For AC Mains or DC Input:



For Signal or Telecommunication Ports:



### 11.3 Test Performance

Performance Criterion:	Mode	Verdict
	TM1-TM4	A

Note: TM4 for CT, CR

### 11.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	55%
ATM Pressure:	1010 mbar

### 11.5 Continuous Conducted Disturbances Test Data

Sweep frequency range: 150kHz~80MHz

Frequency step: 1% of fundamental

Dwell time: 1 second



Test Mode		TM1-TM4		
Level	Voltage (V) (rms, unmodulated)	Modulation:	Pass	Fail
1	1	AM 80%, 1kHz sinewave	/	/
2	3	AM 80%, 1kHz sinewave	A	/
3	10	AM 80%, 1kHz sinewave	/	/
X	Special	/	/	/

Test Result: Pass

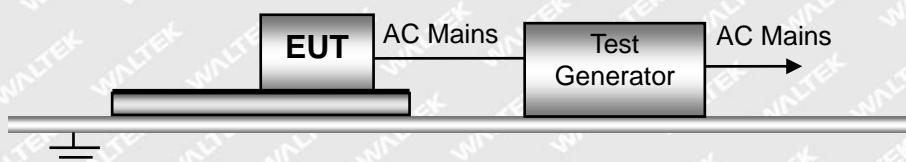


## 12. Voltage Dips and Interruptions

### 12.1 Test Procedure

Test is conducting under the description of EN 61000-4-11.

### 12.2 Test Setup Block Diagram



### 12.3 Test Performance

Performance Criterion:	Mode	Verdict
	TM1-TM4	B for voltage dip/ C for voltage interruption
Note: TM4 for TT,TR		

### 12.4 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	55%
ATM Pressure:	1010 mbar

### 12.5 Voltage Dips And Interruptions Test Data

U: Voltage dips in % U<sub>T</sub> (U<sub>T</sub> is rated voltage for the EUT)

T: Test duration

Level	U	T	Phase Angle	N	Pass	Fail
1	100%	10ms	0/90/180/270	3	A	/
2	100%	20ms	0/90/180/270	3	B	/
3	30%	500ms	0/90/180/270	3	B	/
4	100%	5000ms	0/90/180/270	3	C	/

Test Result: Pass



## EXHIBIT 1 - EUT PHOTOGRAPHS

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Please refer to "ANNEX".

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## EXHIBIT 2 - TEST SETUP PHOTOGRAPHS

<p><b>Conducted Emission Test Setup</b></p>	 A photograph showing a test setup. On the left, a wooden bench holds a signal generator and some cables. Below the bench is a metal control panel with various buttons and a red emergency stop button. To the right is a large, light-colored wooden table. A pair of black headphones sits on the table. A power strip is also visible on the table.
<p><b>Radiation Emission Test View(30MHz to 1GHz)</b></p>	 A photograph of a radiation emission test chamber. The chamber is made of a perforated metal mesh. In the center, there is a white rectangular platform or turntable. The floor is dark and reflective. Blue and white striped caution tape is visible in the foreground, indicating a restricted area. The background shows the interior of the test chamber.



**Radiation Emission  
Test Setup (Above  
1GHz)**



**Harmonic/Flicker Test  
View**

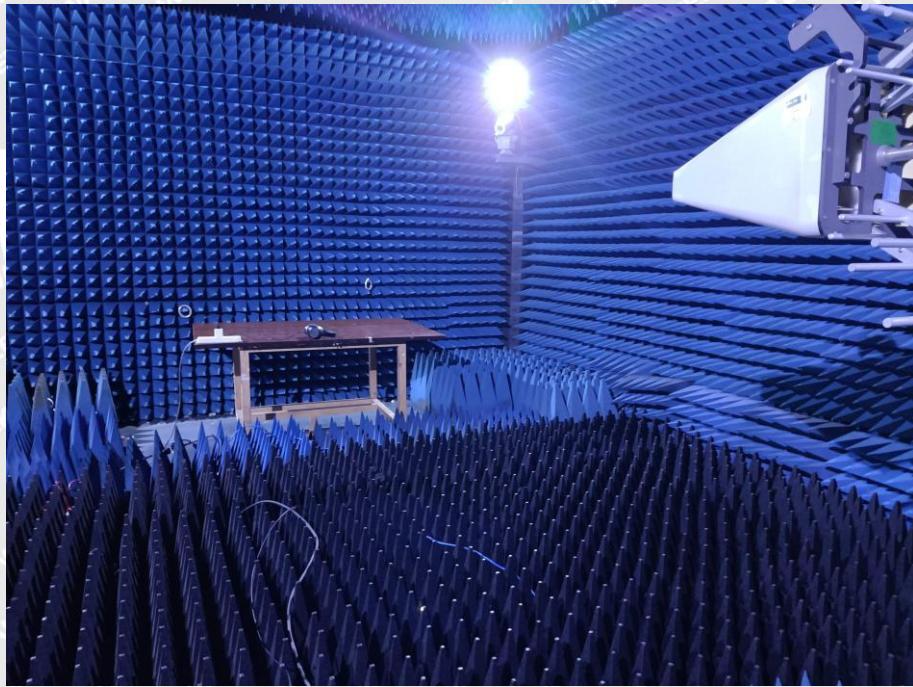




**EN 61000-4-2 Test View**

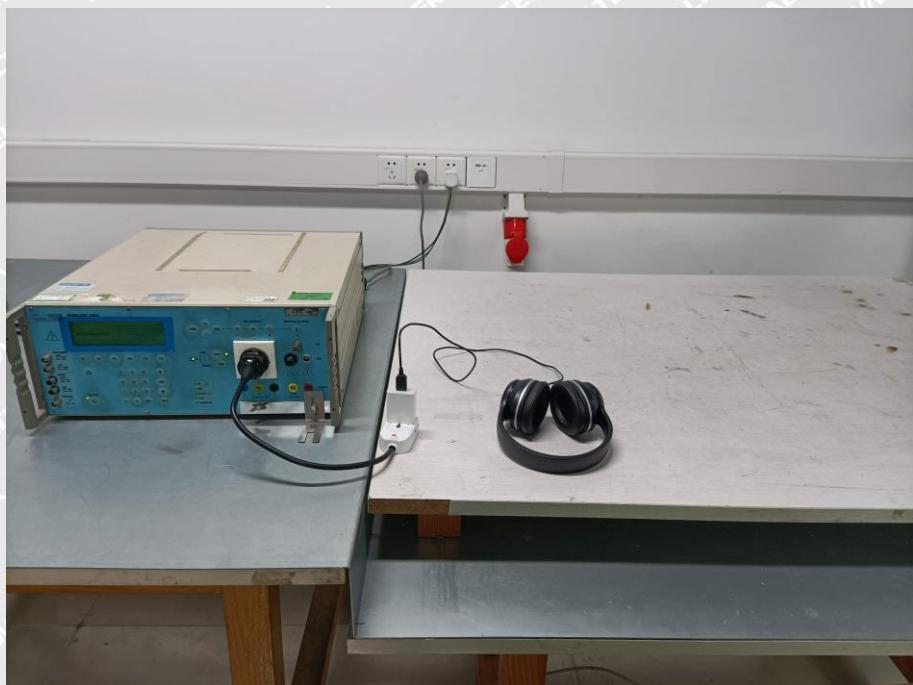


**EN 61000-4-3 Test View**

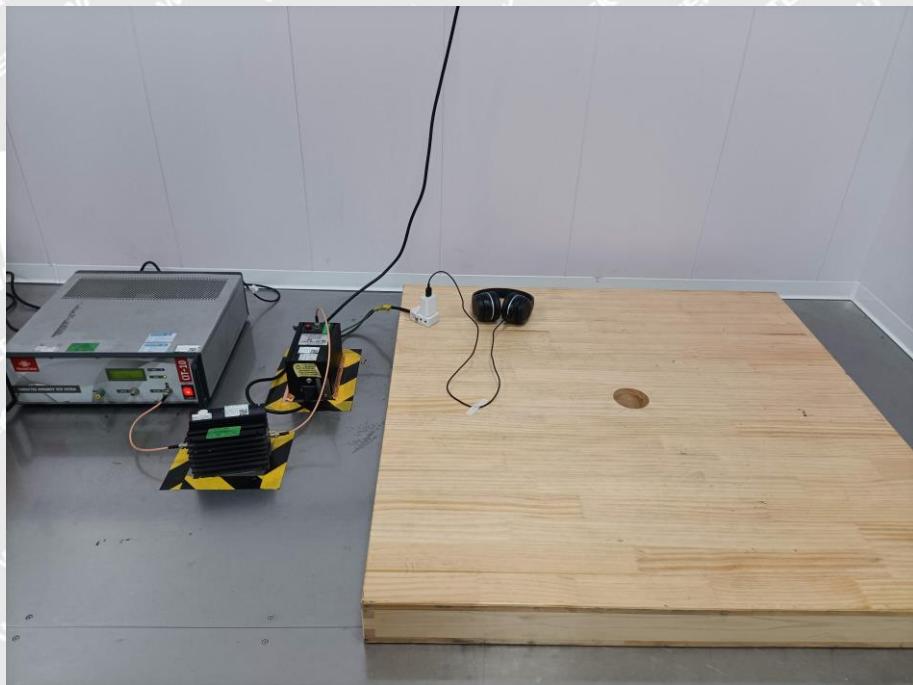




**EN 61000-4-4/5/11 Test  
View**



**EN 61000-4-6 Test View**



\*\*\*\*\* END OF REPORT \*\*\*\*\*