

TEST REPORT



Report No: TW2309371-03E  
Applicant: Eastern Times Technology Co.,Ltd  
Product: GAMING HEADSET  
Model No: H510-PRO, H510W-PRO, ET-9149  
Trademark: REDRAGON

Test Standards: ETSI EN301 489-1 v 2.2.3 (2019-11)  
ETSI EN301 489-3 v 2.3.2 (2023-01)  
ETSI EN301 489-17 v 3.2.4 (2020-09)

Test Result: The EMC testing has been performed on the submitted samples and found in compliance with council Radio Equipment Directive (RED) 2014/53/EU

Approved By

A handwritten signature in black ink that reads 'Terry Tang'.

Terry Tang

EMC Manager

Dated: November 30, 2023

**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

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### **Special Statement:**

#### **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

#### **CAB identifier: CN0033**

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## 1. General Information

### 1.1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The TIMEWAY Lab does not assume Responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the TIMEWAY Lab.

### 1.2 Testing Laboratory

#### 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: +86 755 83448688 Fax: +86 755 83442996

Internet: [www.timeway-lab.com](http://www.timeway-lab.com)

Site on File With the Federal Communications and Commission – United States

Registration Number: 744189

For 3m Anechoic Chamber

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A

For 3m Anechoic Chamber

### 1.3 Details of Applicant

Name: Eastern Times Technology Co.,Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.

### 1.4 Application Details

Date of Receipt of Application: September 26, 2023

Date of Receipt of Test Item: September 26, 2023

Date of Test: September 26, 2023 ~ November 28, 2023

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### 1.5 Test Item

Manufacturer: Eastern Times Technology Co.,Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.

Trademark: REDRAGON

Model No.: H510-PRO

Additional Model: H510W-PRO, ET-9149

Description: GAMING HEADSET

### Additional Information

Frequency: 2403MHz-2477MHz for Headset part/dongle Part

Channel Number: 75

Channel Separation: 1MHz

Modulation Type: GFSK

Frequency 2: 2402MHz-2480MHz for Headset part

Channel Separation: 1MHz for Bluetooth

Modulation Type: GFSK (Bluetooth)

Antenna Designation: PCB antenna with maximum gain 1.55dBi for headset part and 2.4dBi for USB dongle part

Rating: DC5V hosted from PC for USB dongle part; DC5V, 1A headset Part

Battery: DC3.7V, 750mAh Li-ion battery for headset part

Operation Distance: N/A

Resolution: N/A

Extreme Temp. Tolerance: -20°C to 55°C

**Note: Classification according to CEPT/ERC Recommendation 70-03 & ETSI EN301 489-3 v 2.3.2 (2023-01) and ETSI EN301 489-17 v 3.2.4 (2020-09)**

### 1.6 Equipment Classification

**Equipment Category: 3**

### 1.7 List of Ports

Port	Description	Classification <sup>1</sup>	Maximum cable Length	Cable Type
N/A				

Note <sup>1</sup>ports shall be classified as ac power, dc power or signal/control port.

<sup>2</sup>Maximum cable length corresponding to the appropriate ports shall be classified as  $\leq 3m$  or  $> 3m$ .

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### 1.8 Ancillary and Peripheral Devices

Description	Designation	Serial No.	Manufacturer
N/A			

#### List of Peripheral Devices Used for Testing

Description	Designation	Serial No.	Manufacturer
N/A			

Note: An Equipment (apparatus) used in connection with a receiver or transmitter is considered as an ancillary Equipment (apparatus) if:

- a. The equipment is intended for use in conjunction with a receiver or transmitter to provide additional operational and/or control features to the radio equipment. (e.g. to extend control to another position or location); and
- b. The equipment cannot be used on a stand alone basis to provide user functions independently of a receiver or transmitter; and
- c. The receiver or transmitter to which it is connected, is capable of providing some intended operation such as transmitting and/or receiving without the ancillary equipment (i.e. it is not a sub-unit of the main equipment essential to the main equipment basic functions).

### 1.9 Test Standards

<b>ETSI EN 301 489-1 v 2.2.3 (2019-11)</b>
Electromagnetic Compatibility (EMC) standard for radio equipment and services;
Part 1: Common technical requirements
Harmonised Standard for ElectroMagnetic Compatibility
<b>ETSI EN 301 489-3 v 2.3.2 (2023-01)</b>
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services
Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz;
Harmonised Standard for ElectroMagnetic Compatibility
<b>ETSI EN301 489-17 v 3.2.4 (2020-09)</b>
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services;
Part 17: Specific conditions for Broadband Data Transmission Systems;

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Harmonised Standard for ElectroMagnetic Compatibility

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

**1.10 Test or Witness Test Engineering**

Test By: Andy Xing  
 Printing Name: Andy Xing

**2. Technical Test**

**2.1 Summary of Test Results**

No deviations from the technical specification(s) were ascertained in the course of the tests Performed	
Final Verdict: (Only "Passed" if all Measurements are "Passed")	<b>Pass</b>

**2.2 Test Report**

**Emission (EMI)**

EMI Phenomenon	Port	Requirement		EUT Setup	Result	Applicability
		Standard	Basic Standard			
Conducted Interference Voltage	AC Mains	ETSI EN 301489-1: 2019-11 Clause 8.4	EN 55032:2015 +A11:2020 +A1:2020	Refer to Section 4	Complies	Applicable
Radiated Interference Field Strength 30~6000MHz	Enclosure	ETSI EN 301489-1: 2019-11 Clause 8.2	EN 55032:2015 +A11:2020 +A1:2020	Refer to Section 4	Complies	Applicable
Harmonic Current Emissions	AC Mains Input Port	ETSI EN 301489-1: 2019-11 Clause 8.5	EN IEC 61000-3-2: 2019+A1:2021	Refer to Section 4	Complies	Not Applicable
Flicker & Voltage Fluctuation	AC Mains Input Port	ETSI EN 301489-1: 2019-11 Clause 8.6	EN 61000-3-3: 2013+A2:2021 +AC:2022-01	Refer to Section 4	Complies	Not Applicable

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**Immunity (EMS)**

EM3 Phenomenon	Port	Requirement		EUT Setup	Result	Applicability
		Standard	Basic Standard			
Electronic Discharge (ESD)	Enclosure	ETSI EN 301 489-1: 2019-11 Clause 9.3	EN 61000-4-2: 2009	Refer to Section 4	Complies	Applicable
RF-Electro-Magnetic Field (80-6000MHz)	Enclosure	ETSI EN 301 489-1: 2019-11 Clause 9.2	EN IEC 61000-4-3:2020	Refer to Section 4	Complies	Applicable
Fast Transients, Burst	Power Line AC/DC	ETSI EN 301 489-1: 2019-11 Clause 9.4	EN 61000-4-4: 2012	Refer to Section 4	Complies	Applicable
Surge	Power Line (1 phase)	ETSI EN 301 489-1: 2019-11 Clause 9.8	EN 61000-4-5: 2014	Refer to Section 4	Complies	Applicable
Transients & Surge Vehicular Environment	Power Line (Car Charge)	ETSI EN 301 489-1: 2019-11 Clause 9.6	ISO 7637-1/2	Refer to Section 4	Complies	Not Applicable
RF Common Mode (0.15-80MHz)	Power Line AC/DC signal Lines	ETSI EN 301 489-1: 2019-11 Clause 9.5	EN 61000-4-6: 2014	Refer to Section 4	Complies	Applicable
Vol. Dips, Interruptions& Fluctuations (AC Power)	Input& Output AC Ports only	ETSI EN 301 489-1: 2019-11 Clause 9.7	EN IEC 61000-4-11: 2020	Refer to Section 4	Complies	Applicable

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**N/A=Not Applicable**

-Performance criteria A for immunity tests with phenomena of a continuous nature;

Communication between the Tx and Rx or other BT device in the front of pings should not drop during the test.

-Performance criteria B for immunity tests with phenomena of a transient nature;

N/A

-Performance criteria C for immunity tests with power interruptions exceeding a certain time.

N/A

**Note: For details see subclause 6.1 ETSI EN 301 489-3**

**2.3 Measurement Uncertainty**

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

Test Item	Uncertainty
Conducted Emissions	3.6dB
Radiated Emissions	4.7dB (Below 1GHz); 5.0dB (above 1GHz)
Harmonic Current Emission	1.2%
Voltage Fluctuations and Flicker	1.5%
Electrostatic Discharge	The waveform of voltage: 1.6%; Time: 3.1%
RF Electromagnetic Field	3.1dB
Electrical Fast Transients	The waveform of voltage: 1.5%; Time: 2.9%
Surge	The waveform of voltage: 1.5%; Time: 2.9%
RF Common Mode	3.9dB
Voltage Dips and Interruptions	The waveform of voltage: 1.5%; Time: 2.9%

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## **Clause 8.2 Emission Test – Radiated Emission**

This test assesses that ability of ancillary equipment to limit their internal noise from being radiated from the enclosure.

### **According to EMC basic standard (EN 55032)**

Measurement according to EMC basic standard, The test results correspond to the 3m Semi-Anechoic Chamber results.

The EUT and its simulators are placed on a turntable which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to EN55032: 2015 on radiated measurement.

Radiated emissions were investigated over the frequency range from 30MHz to 1 GHz using a receiver bandwidth of 120kHz.

Radiated emissions were investigated over the frequency range from 30MHz to 6 GHz

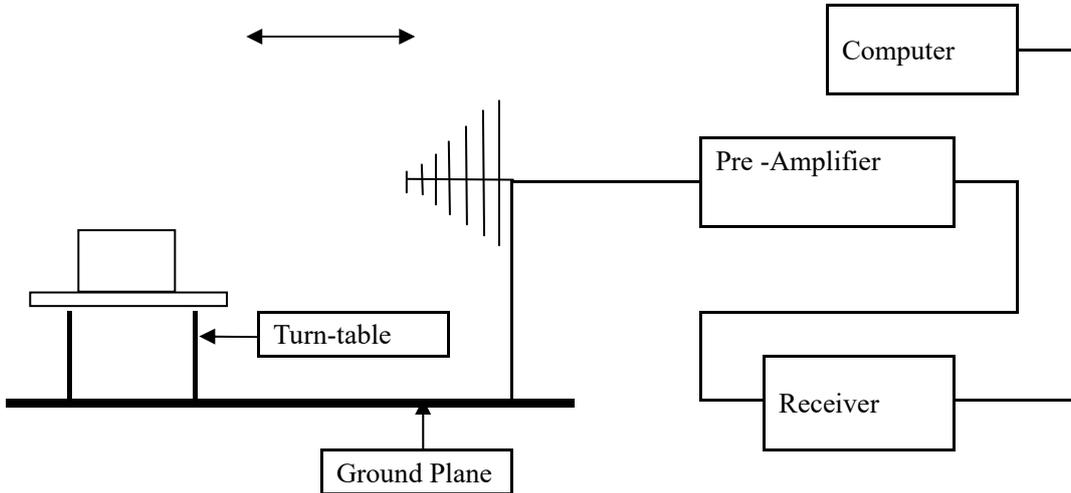
Radiated Emission was performed at an antenna to EUT distance of 3 meters.



**Radiated Emission Test**

**Block diagram of Test setup**

Distance = 3m



**Power line conducted Emission Limit**

Frequency Range (MHz)	Distance (m)	Quasi-Peak limits (dB $\mu$ V/m)
30-230	10/3	30.0/40.0
230-1000	10/3	37.0/47.0
1000-3000	3	50 (AV) /70 (PK)
3000-6000	3	54 (AV) /74 (PK)

Note: The lower limit shall apply at the transition frequencies

**Test result**

Please refer to following table

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**A: Radiated Disturbance (30MHz----1000MHz)**

**EUT Operating Environment**

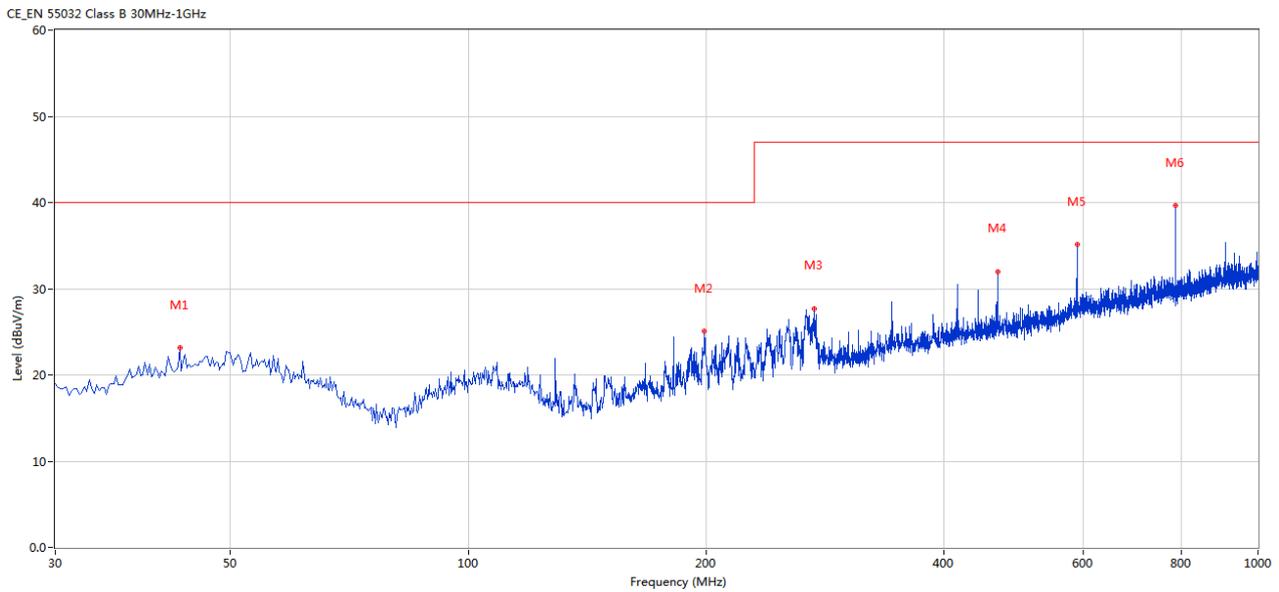
Temperature: 25°C      Humidity: 55%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Bluetooth Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.092	23.15	-11.50	40.0	16.85	Peak	165.00	100	Horizontal	Pass
2	198.980	25.03	-13.50	40.0	14.97	Peak	113.00	100	Horizontal	Pass
3	273.894	27.70	-11.63	47.0	19.30	Peak	82.00	100	Horizontal	Pass
4	468.088	32.02	-7.57	47.0	14.98	Peak	196.00	100	Horizontal	Pass
5	589.793	35.14	-5.08	47.0	11.86	Peak	74.00	100	Horizontal	Pass
6	786.411	39.63	-3.06	47.0	7.37	Peak	295.00	100	Horizontal	Pass

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**B: Radiated Disturbance (30MHz----1000MHz)**

**EUT Operating Environment**

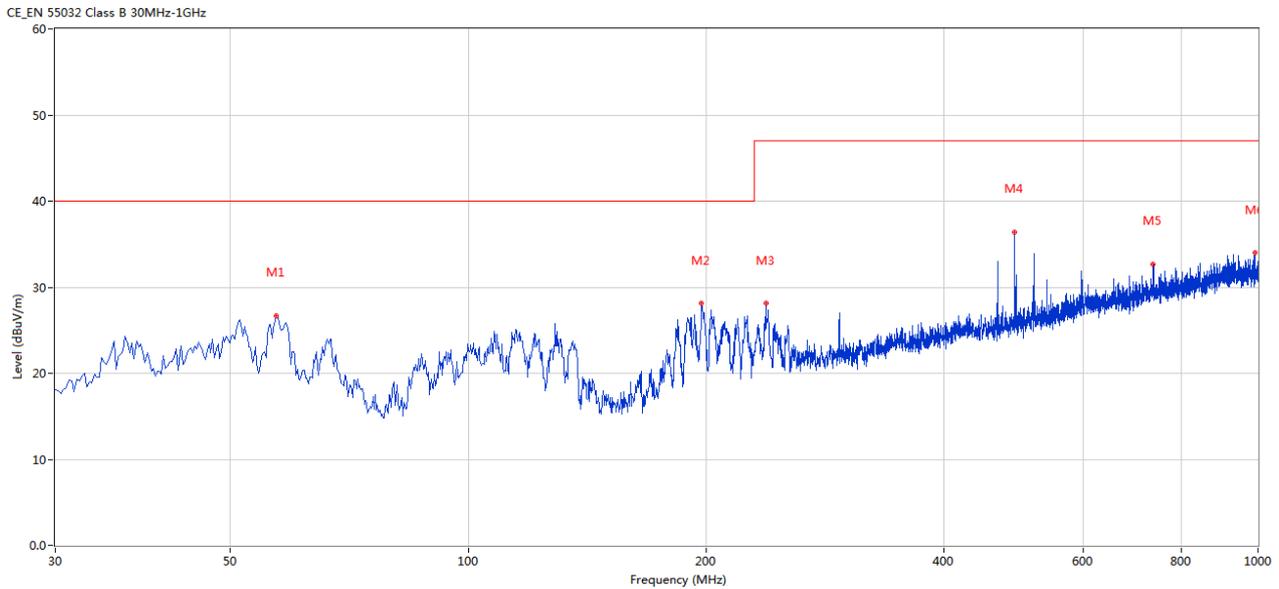
Temperature: 25°C      Humidity: 55%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Bluetooth Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	57.153	26.70	-12.37	40.0	13.30	Peak	148.00	100	Vertical	Pass
2	197.526	28.08	-13.51	40.0	11.92	Peak	43.00	100	Vertical	Pass
3	238.013	28.13	-12.46	47.0	18.87	Peak	46.00	100	Vertical	Pass
4	491.362	36.37	-7.20	47.0	10.63	Peak	85.00	100	Vertical	Pass
5	737.196	32.69	-3.60	47.0	14.31	Peak	50.00	100	Vertical	Pass
6	990.787	34.01	-1.36	47.0	12.99	Peak	168.00	100	Vertical	Pass

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**C: Radiated Disturbance (1000MHz---6000MHz) --- Horizontal**

**EUT Operating Environment**

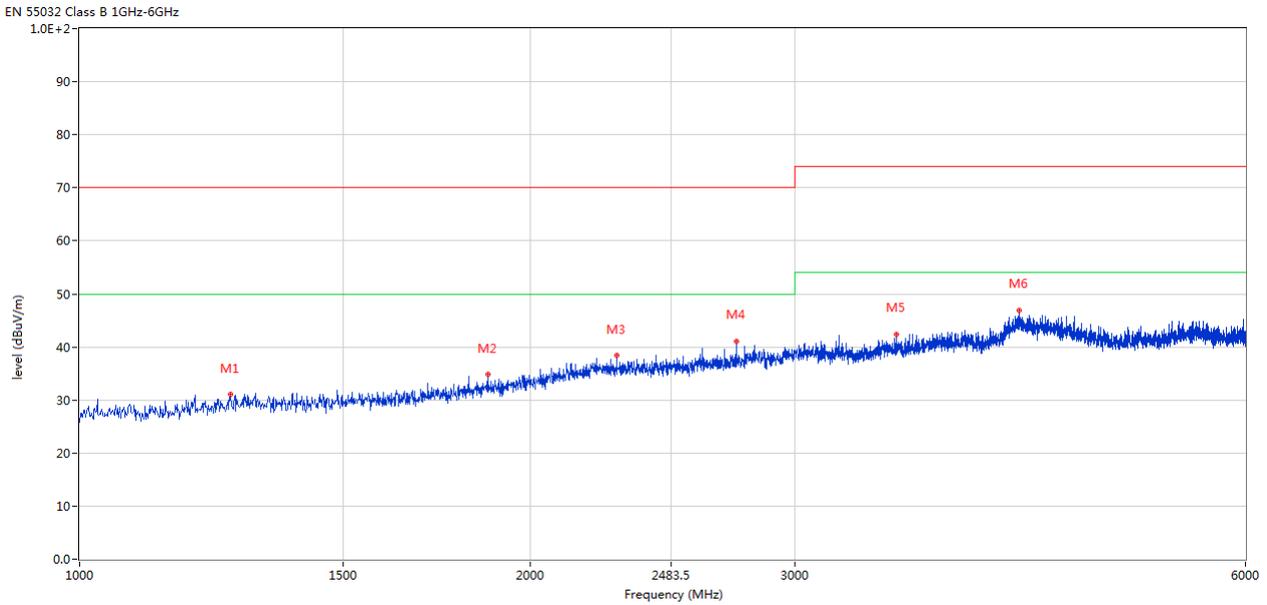
Temperature: 25°C      Humidity: 55%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Bluetooth Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1261.185	31.06	-8.51	70.0	-38.94	Peak	13.00	100	Horizontal	Pass
2	1872.282	34.80	-6.17	70.0	-35.20	Peak	15.00	100	Horizontal	Pass
3	2283.429	38.34	-3.20	70.0	-31.66	Peak	13.00	100	Horizontal	Pass
4	2744.564	41.06	-2.84	70.0	-28.94	Peak	14.00	100	Horizontal	Pass
5	3508.123	42.40	-1.05	74.0	-31.60	Peak	3.00	100	Horizontal	Pass
6	4240.440	46.98	1.70	74.0	-27.02	Peak	2.00	100	Horizontal	Pass

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**D: Radiated Disturbance (1000MHz----6000MHz) --- Vertical**

**EUT Operating Environment**

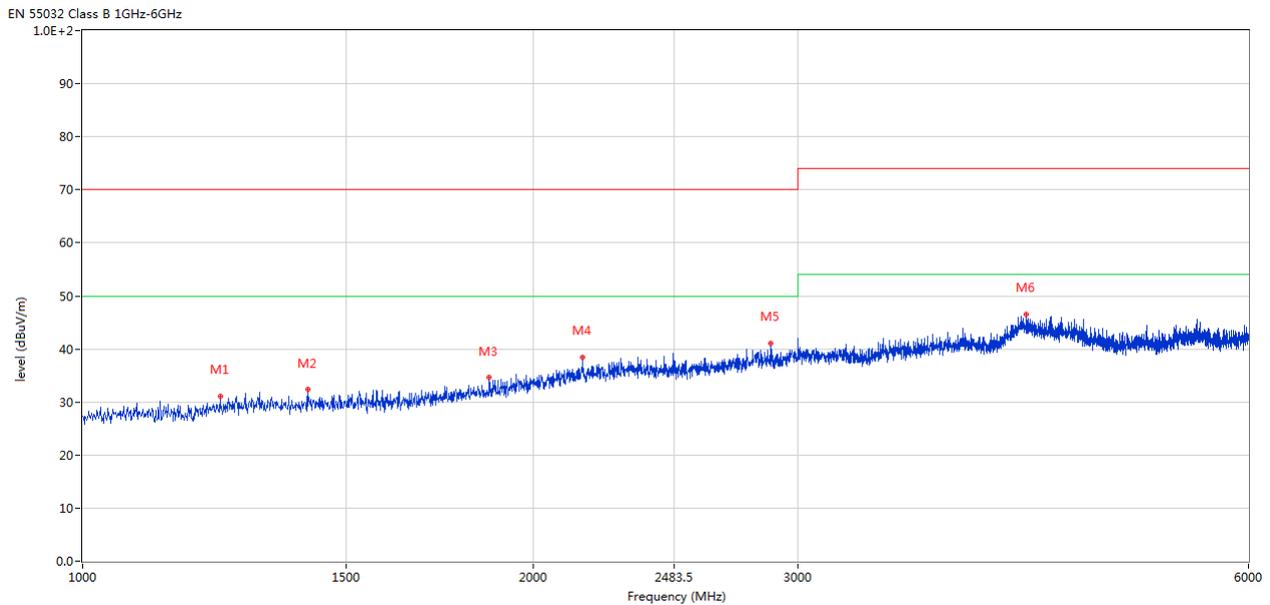
Temperature:25°C      Humidity: 55%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Bluetooth Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1224.944	29.22	-8.76	70.0	-40.78	Peak	4.00	100	Vertical	Pass
2	1413.647	32.31	-8.16	70.0	-37.69	Peak	1.00	100	Vertical	Pass
3	1868.533	34.57	-6.20	70.0	-35.43	Peak	10.00	100	Vertical	Pass
4	2155.961	38.44	-3.69	70.0	-31.56	Peak	1.00	100	Vertical	Pass
5	2879.530	41.08	-2.68	70.0	-28.92	Peak	3.00	100	Vertical	Pass
6	4265.434	46.57	1.76	74.0	-27.43	Peak	1.00	100	Vertical	Pass

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**E: Radiated Disturbance (30MHz----1000MHz)**

**EUT Operating Environment**

Temperature: 25°C      Humidity: 55%RH      Atmospheric Pressure: 101 kPa

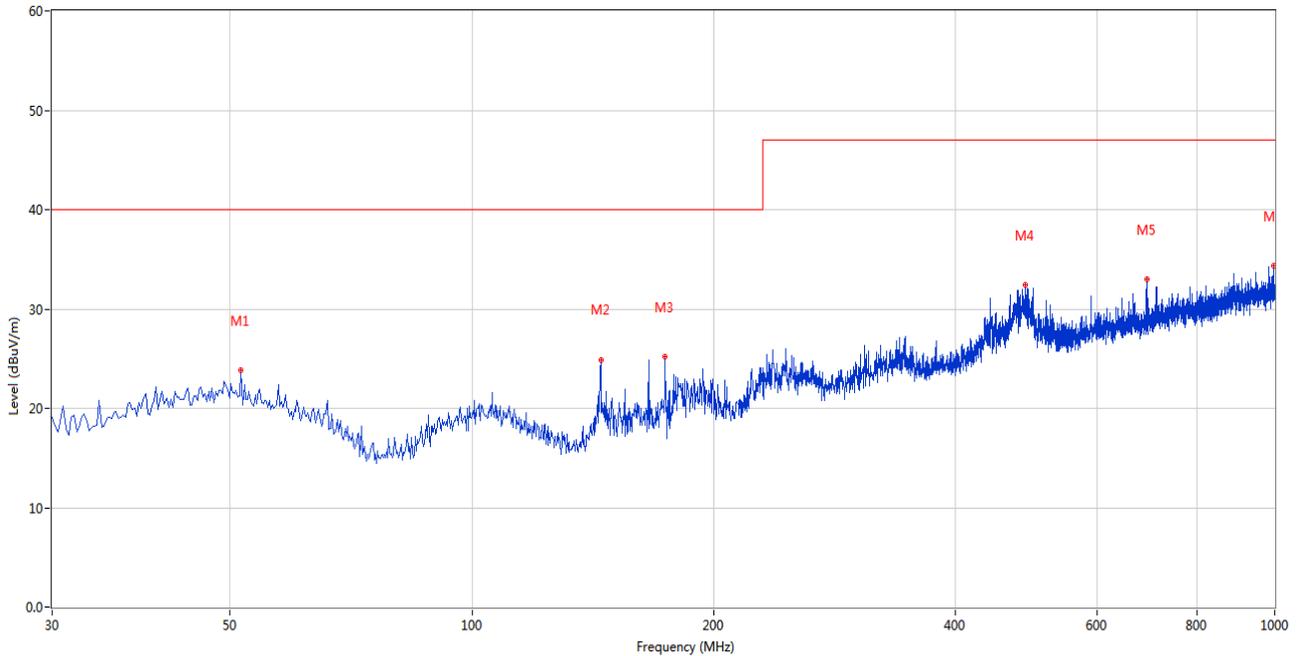
**EUT set Condition: 2.4G Mode (Headset part communication with dongle)**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual

CE\_EN 55032 Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	51.577	23.79	-11.41	40.0	16.21	Peak	358.00	100	Horizontal	Pass
2	144.674	24.87	-17.18	40.0	15.13	Peak	0.00	100	Horizontal	Pass
3	174.009	25.19	-15.87	40.0	14.81	Peak	274.00	100	Horizontal	Pass
4	489.423	32.43	-7.26	47.0	14.57	Peak	97.00	100	Horizontal	Pass
5	693.314	32.98	-4.36	47.0	14.02	Peak	249.00	100	Horizontal	Pass
6	996.606	34.30	-1.26	47.0	12.70	Peak	321.00	100	Horizontal	Pass
7	95.216	18.70	-14.25	40.0	21.30	Peak	60.00	100	Horizontal	Pass

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**F: Radiated Disturbance (30MHz----1000MHz)**

**EUT Operating Environment**

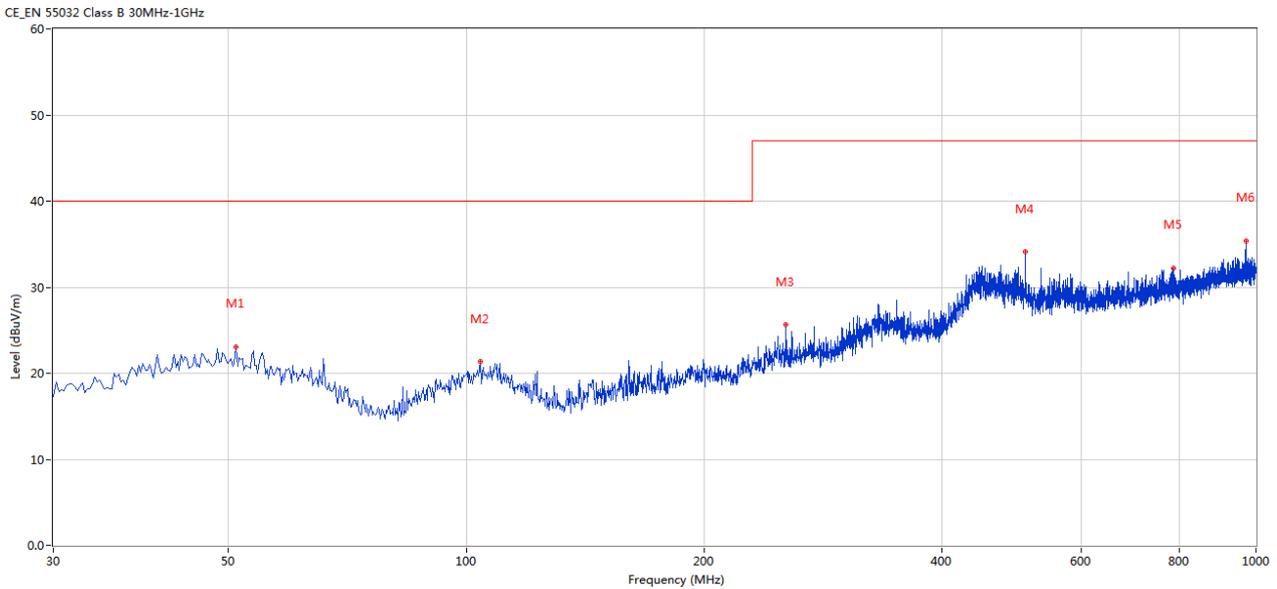
Temperature: 25°C      Humidity: 55%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: 2.4G Mode (Headset part communication with dongle)**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	51.092	23.09	-11.41	40.0	16.91	Peak	316.00	100	Vertical	Pass
2	104.186	21.38	-13.30	40.0	18.62	Peak	188.00	100	Vertical	Pass
3	254.014	25.61	-12.03	47.0	21.39	Peak	323.00	100	Vertical	Pass
4	510.030	34.14	-6.83	47.0	12.86	Peak	325.00	100	Vertical	Pass
5	785.684	32.25	-3.08	47.0	14.75	Peak	277.00	100	Vertical	Pass
6	970.422	35.42	-1.52	47.0	11.58	Peak	222.00	100	Vertical	Pass

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**G: Radiated Disturbance (1000MHz---6000MHz) --- Horizontal**

**EUT Operating Environment**

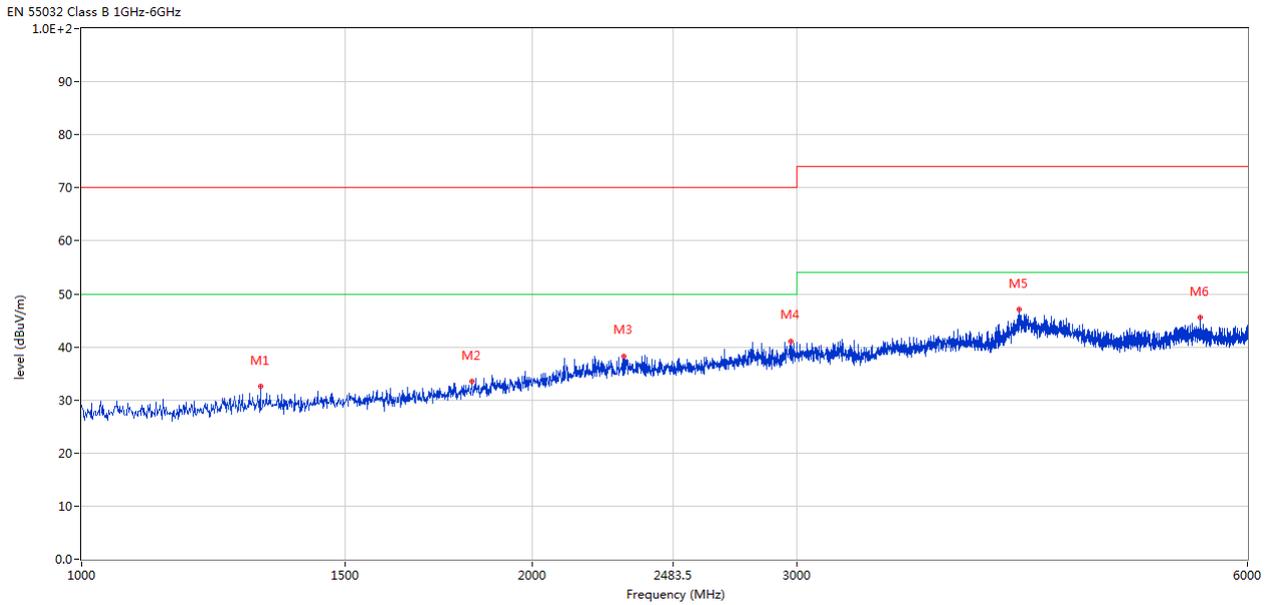
Temperature: 25°C Humidity: 55%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: 2.4G Mode (Headset part communication with dongle)**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1316.171	32.52	-8.23	70.0	-37.48	Peak	11.00	100	Horizontal	Pass
2	1821.045	33.48	-6.63	70.0	-36.52	Peak	8.00	100	Horizontal	Pass
3	2302.174	38.32	-3.20	70.0	-31.68	Peak	14.00	100	Horizontal	Pass
4	2973.257	41.08	-2.65	70.0	-28.92	Peak	8.00	100	Horizontal	Pass
5	4224.194	47.03	1.66	74.0	-26.97	Peak	12.00	100	Horizontal	Pass
6	5578.855	45.56	3.92	74.0	-28.44	Peak	3.00	100	Horizontal	Pass

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**H: Radiated Disturbance (1000MHz----6000MHz) --- Vertical**

**EUT Operating Environment**

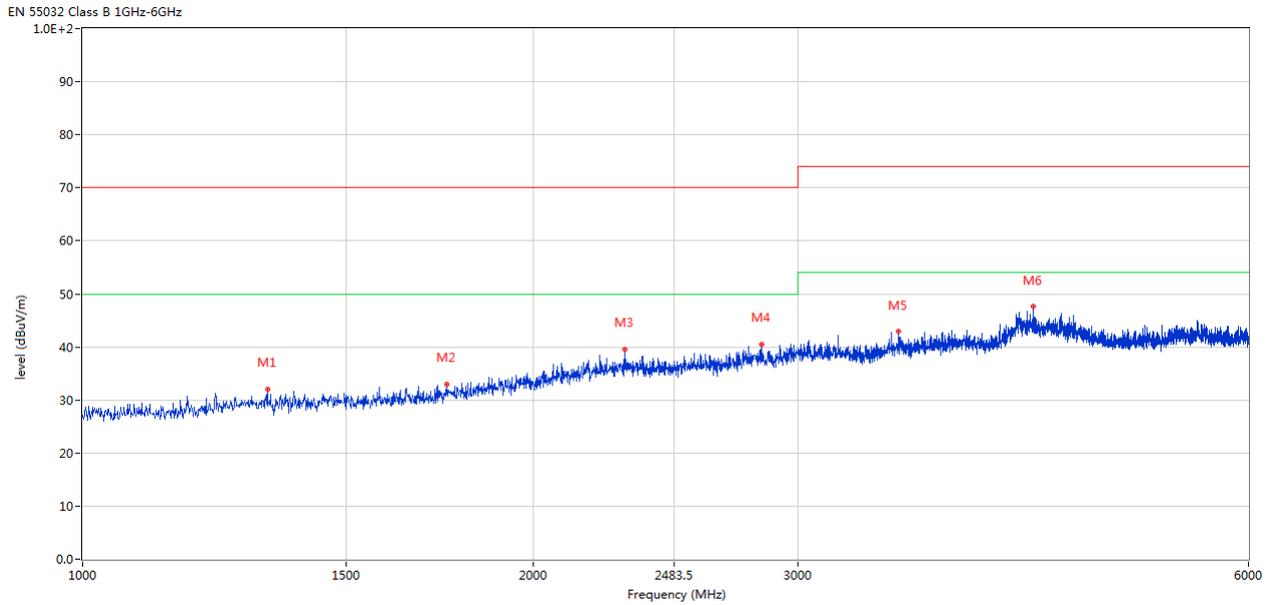
Temperature: 25°C      Humidity: 55%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: 2.4G Mode (Headset part communication with dongle)**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1328.668	32.01	-8.22	70.0	-37.99	Peak	10.00	100	Vertical	Pass
2	1749.813	33.01	-7.18	70.0	-36.99	Peak	5.00	100	Vertical	Pass
3	2302.174	39.61	-3.20	70.0	-30.39	Peak	15.00	100	Vertical	Pass
4	2838.290	40.50	-2.69	70.0	-29.50	Peak	12.00	100	Vertical	Pass
5	3505.624	42.86	-1.06	74.0	-31.14	Peak	11.00	100	Vertical	Pass
6	4309.173	47.61	1.85	74.0	-26.39	Peak	14.00	100	Vertical	Pass

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### Clause 8.4 AC Line Conducted Emissions

According to EMC Basic Standard (EN 55032 Class-B)

1. For the table top EUT the distance to the reference ground plane (wall) should be 40 cm.
2. AC input line plugged into LISN.

EUT Operating Mode

USB Dongle part under normal operation/ Headset part under charging mode

#### Results

Power Line (L, N)	EUT Operating mode or operating mode no.	Detector (Peak, AV, QP)	Additional (scan-) Information (e.g. Pre-test Fast scan, Maxhold, Final measurement.)	Result (Passed / Failed)
L=>GND	USB Dongle part under	QP & AV	--	Pass
N=>GND	normal operation/ Headset part under charging mode	QP & AV	--	Pass

The frequency spectrum from 0.15MHz to 30MHz was investigated. All readings are quasi -peak values with a resolution bandwidth of 9 kHz

Temperature: 25°C

Humidity: 53% RH

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

**EUT Operating Environment**

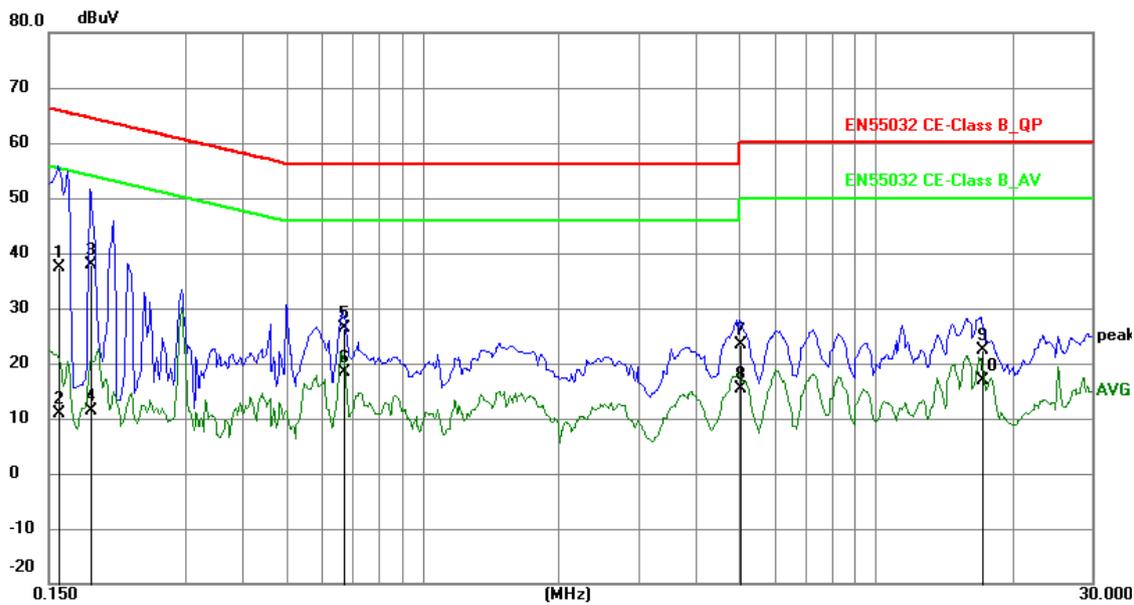
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Dongle under Normal operation mode**

**Equipment Level: Class B**

**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	0.1578	27.49	9.78	37.27	65.58	-28.31	QP	P
2	0.1578	1.13	9.78	10.91	55.58	-44.67	AVG	P
3	0.1850	28.04	9.76	37.80	64.26	-26.46	QP	P
4	0.1850	1.59	9.76	11.35	54.26	-42.91	AVG	P
5	0.6687	16.66	9.78	26.44	56.00	-29.56	QP	P
6	0.6687	8.55	9.78	18.33	46.00	-27.67	AVG	P
7	5.0162	13.40	9.93	23.33	60.00	-36.67	QP	P
8	5.0162	5.55	9.93	15.48	50.00	-34.52	AVG	P
9	17.1102	11.95	10.51	22.46	60.00	-37.54	QP	P
10	17.1102	6.31	10.51	16.82	50.00	-33.18	AVG	P

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

**EUT Operating Environment**

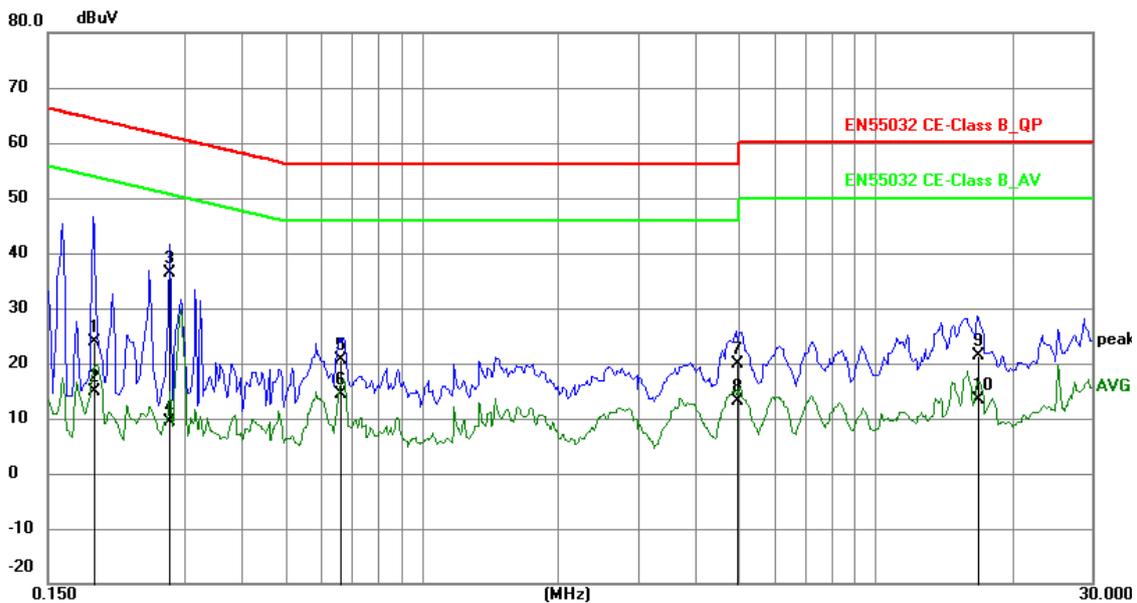
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Dongle under Normal operation mode**

**Equipment Level: Class B**

**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	0.1890	14.00	9.76	23.76	64.08	-40.32	QP	P
2	0.1890	5.17	9.76	14.93	54.08	-39.15	AVG	P
3	0.2787	26.71	9.76	36.47	60.85	-24.38	QP	P
4	0.2787	-0.47	9.76	9.29	50.85	-41.56	AVG	P
5	0.6609	10.75	9.78	20.53	56.00	-35.47	QP	P
6	0.6609	4.70	9.78	14.48	46.00	-31.52	AVG	P
7	4.9422	10.02	9.93	19.95	56.00	-36.05	QP	P
8	4.9422	3.25	9.93	13.18	46.00	-32.82	AVG	P
9	16.7670	10.86	10.49	21.35	60.00	-38.65	QP	P
10	16.7670	2.81	10.49	13.30	50.00	-36.70	AVG	P

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

**EUT Operating Environment**

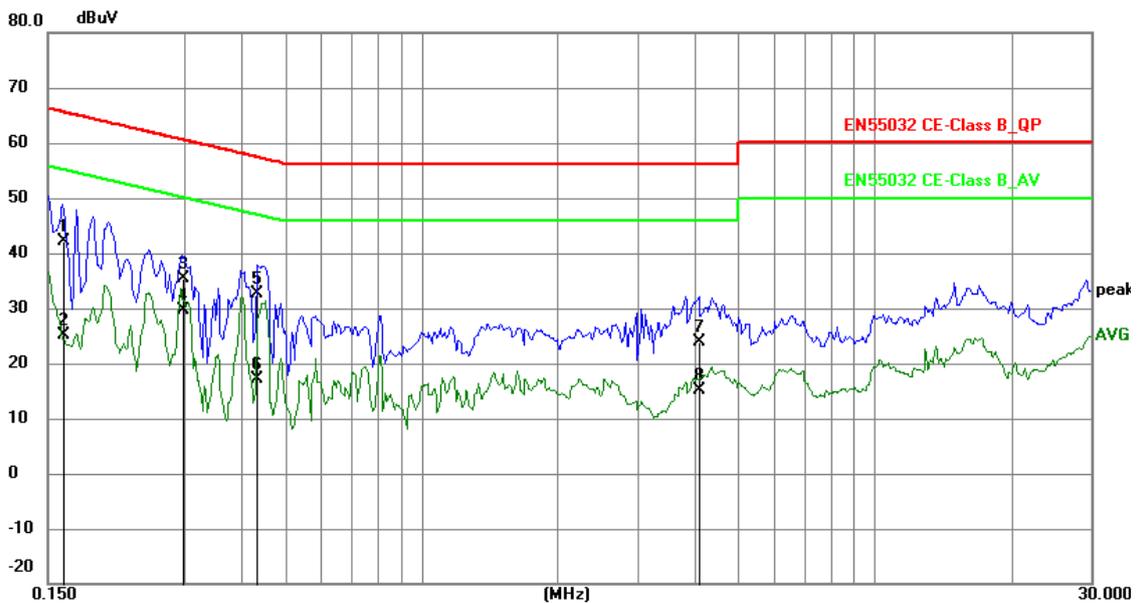
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Headset part under charging mode**

**Equipment Level: Class B**

**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	0.1617	32.42	9.78	42.20	65.38	-23.18	QP	P
2	0.1617	15.28	9.78	25.06	55.38	-30.32	AVG	P
3	0.2982	25.73	9.76	35.49	60.29	-24.80	QP	P
4	0.2982	19.81	9.76	29.57	50.29	-20.72	AVG	P
5	0.4351	22.79	9.77	32.56	57.15	-24.59	QP	P
6	0.4351	7.35	9.77	17.12	47.15	-30.03	AVG	P
7	4.0998	13.99	9.89	23.88	56.00	-32.12	QP	P
8	4.0998	5.26	9.89	15.15	46.00	-30.85	AVG	P

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

**EUT Operating Environment**

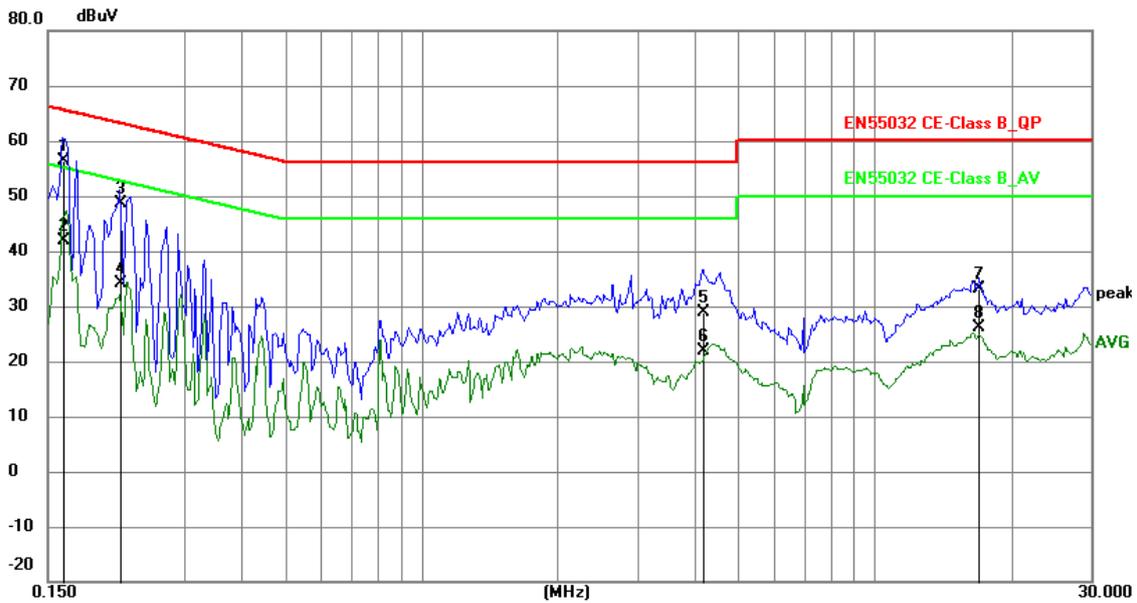
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Headset part under charging mode**

**Equipment Level: Class B**

**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	0.1617	46.48	9.78	56.26	65.38	-9.12	QP	P
2	0.1617	32.11	9.78	41.89	55.38	-13.49	AVG	P
3	0.2163	38.77	9.75	48.52	62.96	-14.44	QP	P
4	0.2163	24.33	9.75	34.08	52.96	-18.88	AVG	P
5	4.1778	18.91	9.89	28.80	56.00	-27.20	QP	P
6	4.1778	12.03	9.89	21.92	46.00	-24.08	AVG	P
7	17.0127	22.58	10.50	33.08	60.00	-26.92	QP	P
8	17.0127	15.56	10.50	26.06	50.00	-23.94	AVG	P

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**Clause 8.5 Harmonic Current Emissions**

This test was performed as per EMC Basic Standard EN IEC 61000-3-2:2019+A1:2021

EUT Operating Mode

Normal Operation

Results: N/A

Port	EUT Operating mode or operating mode no.	Result (Passed / Failed)
AC Input	Normal Operation	N/A

Please see the following test figure:

<b>Table 1 - Limit of Harmonics Current Measurement</b>	
<b>Limits for Class A equipment</b>	
<b>Harmonics order (n)</b>	<b>Max. permissible harmonics current (A)</b>
Odd harmonics	
3	2.3
5	1.14
7	0.77
9	0.40
11	0.33
13	0.21
15<=n<=39	0.15 x 15/n
Even harmonics	
2	1.08
4	0.43
6	0.30
8<=n<=40	0.23 x 8/n

Note:

- For Class A equipment, the harmonics of the input current shall not exceed the absolute values given in table 1.
- For Class B equipment, the harmonics of the input current shall not exceed the values given in table 1 multiplied by factor of 1, 5.

<b>Table 2 - Limit of Harmonics Current Measurement</b>	
<b>Limits for Class C equipment</b>	
<b>Harmonics order (n)</b>	<b>Max. permissible harmonics current expressed as a percentage of the input current at the fundamental frequency (A)</b>

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Odd harmonics only	
2	2
3	$30 \times \lambda^*$
5	10
7	7
9	5
$11 \leq n \leq 39$	3

Note: The harmonic current limits of lighting equipment shall not exceed the relative limits given in table 2.

Table 3 - Limit of Harmonics Current Measurement		
Limits for Class D equipment		
Harmonics order (n)	Maximum permissible harmonic current per watt mA/W	Maximum permissible harmonic current A
Odd harmonics only		
3	3.4	2.30
5	1.9	1.14
7	1.0	0.77
9	0.5	0.40
11	0.35	0.33
$13 \leq n \leq 39$	$3.85/n$	See table 1
$11 \leq n \leq 39$	3	

Note: The harmonic of the input current shall not exceed the values that can be derived from table 3.

### Test Equipment

Please refer to Section 6 this report.

### Test Procedure

- a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions for each successive harmonic component in turn.
- b. The EUT is classified as follows:
  - Class A Balanced three-phase equipment and all other equipment, except that stated in one of the following classes.
  - Class B Portable tools.
  - Class C Lighting equipment, including dimming devices.
  - Class D Equipment having an input current with “special wave shape” and an active input power,  $P \leq 600W$

**Note: Due to the input power less than 75W. This test item not applicable.**

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### Clause 8.6 Flicker and Voltage Fluctuation

This test was performed as per EMC Basic Standard EN 61000-3-3:2013+A2:2021+AC:2022-01

Environmental conditions: Temperature: 25°C; Humidity: 50%RH

EUT Operating Mode

Normal Operation

#### Results

Port	EUT Operating mode or operating mode no.	Result (Passed / Failed)
AC Input	Normal Operation	N/A

Please refer to the following test figure

#### Test Equipment

Please refer to Section 6 this report.

#### Test Procedure

- a.. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the most unfavorable sequence of voltage changes under normal operating conditions.
- b. During the flick measurement, the measure time shall include that part of whole operation cycle in which the EUT 10 minutes and the observation period for long- term flicker indicator is 2 hours.

**Note: Tests need not be made on equipment which is unlikely to produce significant voltage fluctuations or flicker.**

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## Clause 9.2 Immunity Test – Radiated, RF Electromagnetic Field

### According to EMC Basic Standard (EN 61000-4-3[9])

USB Dongle part at Operating Mode and Headset part at Operating Mode

Environmental conditions: Temperature: 25°C; Humidity: 50%RH

Type of Port: Enclosure

Performance Criterion: CT/CR

The distance between the turn-table axis and Tx&Rx-antenna is 3m.

Field strength = 3V/m

Start Frequency = 80MHz      Stop Frequency = 6000MHz

Frequency Step = lin 1MHz

Modulation = AM, 400Hz, 1kHz, 80%

### Results

Frequency (MHz)	Antenna Polarity	Radiation to	Reaction of the EUT During and after test	Result
80-6000	Horizontal	Front	No reactions recognized	Passed
80-6000	Vertical	Front	No reactions recognized	Passed
80-6000	Horizontal	Rear	No reactions recognized	Passed
80-6000	Vertical	Rear	No reactions recognized	Passed
80-6000	Horizontal	Left	No reactions recognized	Passed
80-6000	Vertical	Left	No reactions recognized	Passed
80-6000	Horizontal	Right	No reactions recognized	Passed
80-6000	Vertical	Right	No reactions recognized	Passed

Note: Performance criteria A observed.

### Test Equipment

Please refer to Section 6 this report.

### Test Procedure

The EUT and load, which are placed on a table that is 0.8 meter above ground, are placed with one coincident with

The calibration plane such that the distance from antenna to the EUT was 3 meters.

Both horizontal and vertical polarization of the antenna and four sides of the EUT are set on measurement.

In order to judge the EUT performance, a CCD camera is used to monitor EUT screen.

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### Clause 9.3 Electrostatic Discharge

According to EMC basic standard (EN61000-4-2[10])

USB Dongle part at Operating Mode and Headset part at Operating Mode

Environmental conditions: Temperature: 24°C; Humidity: 50%RH

Type of Port: Enclosure, Keys, Screws, Type-C Port, USB Port, Gaps, Indicator Light, MIC Port

Performance Criterion: TT/TR

For the table top EUT the distance to the reference ground plane should be 80 cm.

Direct contact discharge on conducting surfaces of EUT

Indirect air discharge on insulating surfaces of EUT

±2kV, ±4kV direct discharge & ±2kV, ±4kV, ±8kV air discharge

#### Test Results

Item	Contact Discharge to conducted surfaces and to coupling planes		Air Discharge at insulating surfaces
	Direct Contact Discharge	Indirect Contact Discharge	
Test Voltage	Reaction of EUT / Result	Reaction of EUT / Result	Reaction of EUT / Result
+2kV	n.r.r Passed	n.r.r Passed	n.r.r Passed
-2kV	n.r.r Passed	n.r.r Passed	n.r.r Passed
+4kV	n.r.r Passed	n.r.r Passed	n.r.r Passed
-4kV	n.r.r Passed	n.r.r Passed	n.r.r Passed
+8kV	-	-	n.r.r Passed
-8kV	-	-	n.r.r Passed

Remarks: n.r.r. = no reaction recognized

Performance Criteria A observed and No any function degraded during the tests.

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**Clause 9.4 Fast Transients Common Mode**

**According to EMC basic standard (EN61000-4-4 [11])**

USB Dongle part Under Operating Mode/ Headset part under charging mode

Environmental conditions: Temperature: 25°C; Humidity: 51%RH

Type of Port: AC mains power input/output port

Performance Criterion: TT/TR

For the table top EUT the distance to the reference ground plane should be 10 cm.

The test level for ac mains power input ports shall be 1kV open circuit.

**Test Setup**

Burst on Power Line (direct injection)

**Test Results**

Adjustment on UCS 500 M4: Trigger “AUTO”, Burst length: 15ms				Test Time:		60s for every voltage and polarity		
						120s for every voltage and polarity		
Testing on power Line (direct injection)		Reaction of The Test Object During and after Test						Result
Test Voltage	Repetition Frequency	L1 =>GND (+ =>GND)	L2=> GND	L3=> GND	N=> GND	PE=> GND	L1, N, => GND	
-0.5kV	5kHz	n.r.r	N/A	N/A	n.r.r	N/A	n.r.r	<b>Pass</b>
+0.5kV	5kHz	n.r.r	N/A	N/A	n.r.r	N/A	n.r.r	<b>Pass</b>
-1.0kV	5kHz	n.r.r	N/A	N/A	n.r.r	N/A	n.r.r	<b>Pass</b>
+1.0kV	5kHz	n.r.r	N/A	N/A	n.r.r	N/A	n.r.r	<b>Pass</b>

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### Clause 9.5 RF Common Mode

According to EMC basic standard (EN61000-4-6 [10])

USB Dongle part Under Operating Mode/ Headset part under charging mode

Environmental conditions: Temperature: 25°C; Humidity: 51%RH

Type of Port: AC mains power input/output port

Performance Criterion: CT/CR

Start Frequency = 150KHz Stop Frequency = 80MHz

Frequency Step = 50kHz in the range of 150kHz-5MHz

1% increment in the range of 5MHz-80MHz

Modulation = AM, 400Hz, 1kHz, 80%

### Test Setup

Injection via CDN or BIC clamp

### Test Results

Injection On	Injection Via	Reaction of the EUT During and after test	Result
AC input power line	CDN	No reactions recognized	<b>Pass</b>

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### Clause 9.7 Voltage Dips

**According to EMC basic standard (EN61000-4-11 [13])**

USB Dongle part Under Operating Mode/ Headset part under charging mode

Environmental conditions: Temperature: 24°C; Humidity: 49%RH

Type of Port: AC mains power input/output port

Performance Criterion: TT/TR

For the table top EUT the distance to the reference ground plane should be 80 cm.

The test level shall be- a vol. Reduction of the supply vol. 100% for 10ms, 100% for 20ms , 30% for 500ms

And 100% for 5000ms

**Test Results**

**Voltage Dip:**

Test Level % Ut	Reduction	Duration (periods)	Phase Angle	Reaction of EUT during and after Test	Result
0	100%	10ms	0° - 360°	n.r.r- performance criteria A observed	<b>Pass</b>
0	100%	20ms	0° - 360°	n.r.r- performance criteria A observed	<b>Pass</b>
70	30%	500ms	0° - 360°	n.r.r- performance criteria A observed	<b>Pass</b>

**Voltage Interceptions:**

Test Level % Ut	Reduction	Duration (periods)	Phase Angle	Reaction of EUT during and after Test	Result
0	100%	5000ms	0° - 360°	n.r.r- performance criteria B observed	<b>Pass</b>

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**Clause 9.8 Surges Common & Differential Mode (1-phase)**

**According to EMC basic standard (EN61000-4-5 [14])**

USB Dongle part Under Operating Mode/ Headset part under charging mode

Environmental conditions: Temperature: 25°C; Humidity: 50%RH

Type of Port: AC mains power input/output port

Performance Criterion: TT/TR

For the table top EUT the distance to the reference ground plane should be 80 cm.

1KV open circuit for common mode & 0.5kV open circuit for differential mode.

**Test Results**

5 pulses for each polarity and test voltage, alternating and negative/positive, triggered in case of AC- powerline: 0°, 45°, 90° 180°, 270°, referred to the line frequency. (L1)

Repetition rate is 1 per min.

Test Voltage	Reaction of the test object during and after test by trigger angle/pulse no.(coupling on DC-lines =>trigger angle not relevant).					Result
	0°/pulse no1, 2	45°/pulse, no.3, 4	90°/pulse, no. 5, 6	180°/pulse, no. 7, 8	270°/pulse, no. 9, 10	
Capacitive coupling on AC line: L1=>N or DC lines lines +=>- (Ri=2 Ω /C =18uF)						
-0.5kV	No reaction	No reaction	No reaction	No reaction	No reaction	<b>Pass</b>
+0.5kV	Recognized	Recognized	Recognized	Recognized	Recognized	
-1.0kV	No reaction	No reaction	No reaction	No reaction	No reaction	<b>Pass</b>
+1.0kV	Recognized	Recognized	Recognized	Recognized	Recognized	
-2.0kV	N/A	N/A	N/A	N/A	N/A	<b>N/A</b>
+2.0kV						
- kV	N/A	N/A	N/A	N/A	N/A	<b>N/A</b>
+kV						

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### 3.0 CE Mark label specification

Text of the mark is black or white in color and is left justified. Labels are printed in indelible ink on permanent adhesive backing and shall be affixed at a conspicuous location on the EUT or silk-screened onto the EUT.



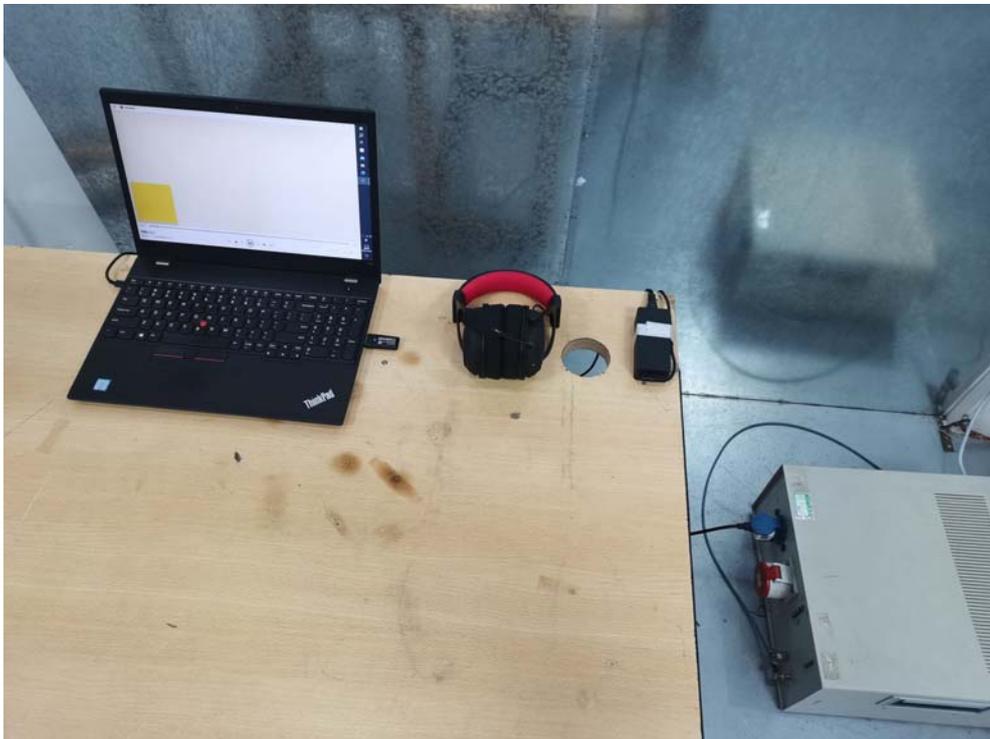
Mark Location: Rear enclosure

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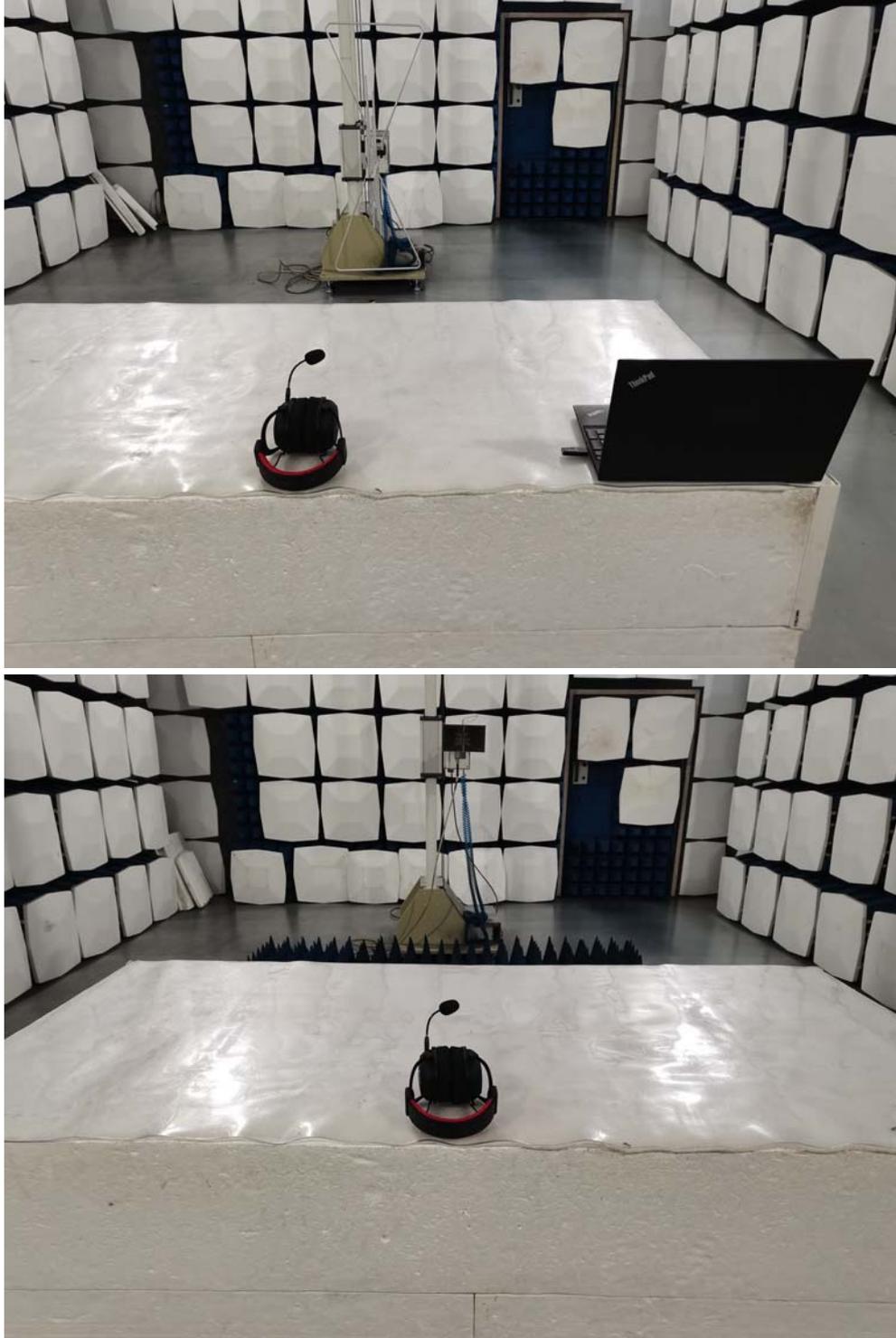
#### 4.0 Photographs – Test Setup

##### 4.1 Photograph – Conducted Test Setup:



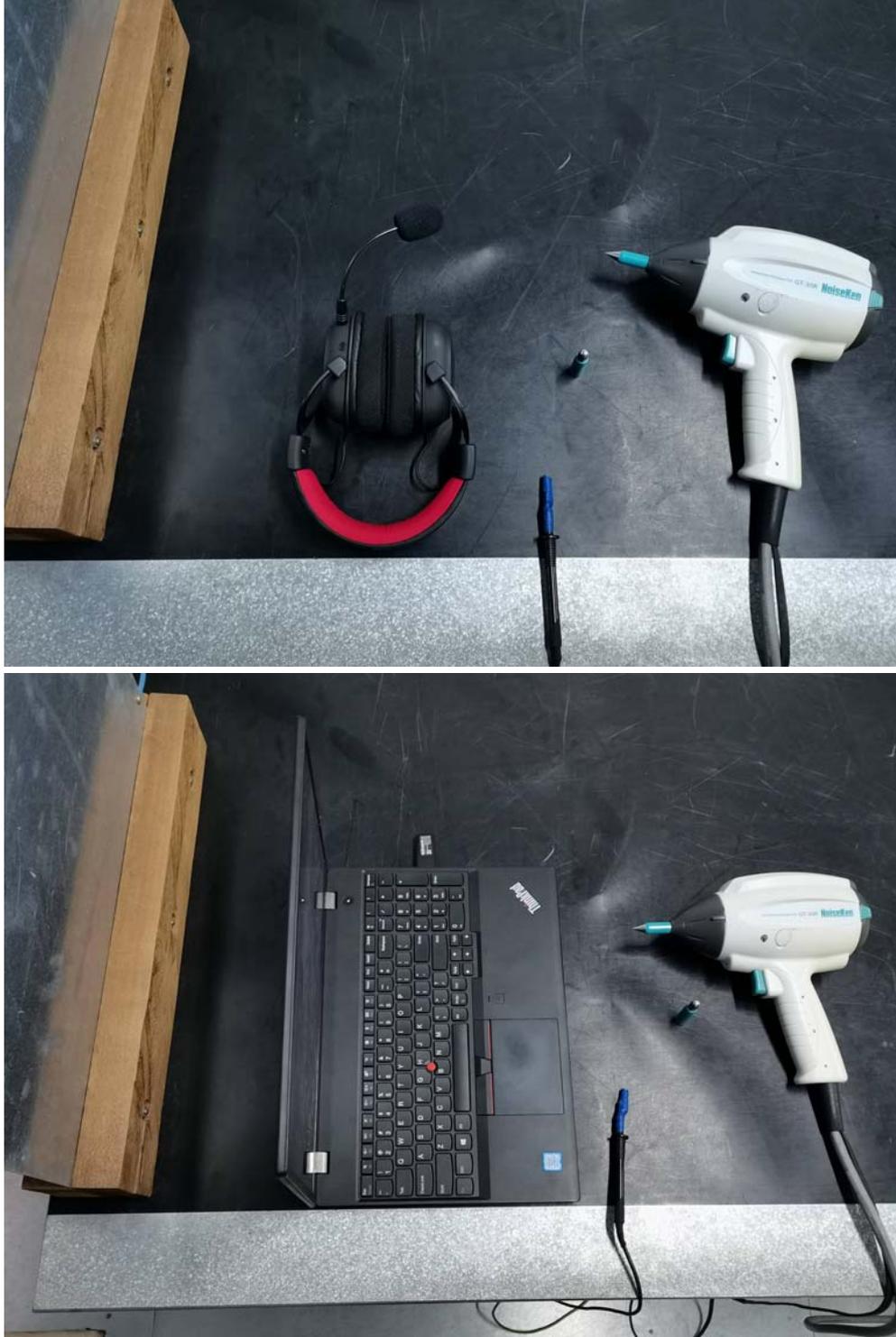
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#### 4.2 Photograph – Radiated Emission Test Setup:



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### 4.3 Photograph –ESD Test Setup



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#### 4.4 Photograph –EFT/B, Surge, Voltage Dips Test Setup



#### 4.5 Photograph – CS Test Setup:



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## 5.0 Photographs – EUT

Please refer test report TW2309371-01E

## 6.0 List of Measurement Equipment

### 6.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESCS 30	834115/006	RS	2023.07.14	1Year
LISN	NNB42	00012	SCHFFNER	2023.07.14	1Year

### 6.2 Radiated Disturbance Test

Name	Model No	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESPI 3	100379	RS	2023.07.14	1Year
Spectrum Analyzer	E4407B	MY50441392	HP/Agilent	2023.07.14	1Year
Amplifier	BBV9743	#218	HP/Agilent	2023.07.14	1Year
Bilog Antenna	VULB9163	9163/340	Schwabebeck	2022.07.18	3Year
Horn Antenna	BBHA 9120D	9120D-631	RS	2022.07.18	3Year
Amplifier	8449B	3008A00160	HP/Agilent	2023.07.14	1Year

### 6.3 Harmonic & Flicker Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Harmonics Flicker Test System	PACS-1	72305	CI	2023.07.14	1Year
5K VA AC Power Source	5001iX	56060	CI	2023.07.14	N/A

### 6.4 ESD Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
ESD Simulator	DITO	0404-24	EM TEST	2023.07.14	1Year

### 6.5 RF field Strength Susceptibility

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
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Signal Generator	SMT03	100059	RS	2023.07.14	1 Year
Power Meter	NRVS	---	RS	2023.07.14	1 Year
Voltage Probe	URV5-Z2	100012	RS	2023.07.14	1 Year
Voltage Probe	URV5-Z2	100013	RS	2023.07.14	1 Year
Power Amplifier	150W1000	300999	AR	2023.07.14	1 Year
Power Amplifier	25S1G4AM1	305993	AR	2023.07.14	1 Year
Field Probe	CBL6111C	2576	Holiday	2023.07.14	1 Year
Bilog Antenna	MCDC	---	Chase	2023.07.14	1 Year

#### 6.6 Electrical Fast Transient/Burst (EFT/B) Immunity test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EFT Generator	UCS 500 M4	0304-42	EM TEST	2023.07.14	1 Year
Power Source	MV2616	0104-14	EM TEST	2023.07.14	1 Year

#### 6.7 Surge Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Ultra Compact Simulator	UCS 500 M4	0304-42	EM TEST	2023.07.14	1 Year
Power Source	MV2616	0104-14	EM TEST	2023.07.14	1 Year

#### 6.8 Conducted Immunity Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Continuous Wave Simulator	CWS 500C	0407-05	EM TEST	2023.07.14	1 Year

#### 6.9 Voltage Dips/Interruption Immunity Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Ultra Compact Simulator	UCS 500 M4	0304-42	EM TEST	2023.07.14	1 Year
Power Source	MV2616	0104-14	EM TEST	2023.07.14	1 Year

### End of the report

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