



TEST REPORT

Reference No..... : WTF19S19120314W003
Manufacturer : DIGIVIEW TECHNOLOGY LIMITED
* Address..... : West of 2/F, Building B1, Gaoxinjian Industrial Park,
Fuyuan 1st Road, FuYong, Baoan, Shenzhen
Factory..... : DIGIVIEW TECHNOLOGY LIMITED
Product : ABS WheatStraw BT 5.0 speaker
Model(s) : DSBT002-W
Standards : ETSI EN 301 489-1 V2.1.1 (2017-02)
ETSI EN 301 489-17 V3.1.1 (2017-02)
Date of Receipt sample ... : 2019-11-18
Date of Test : 2019-11-18 to 2019-12-02
Date of Issue : 2019-12-03
Test Result : Pass

Remarks

1. 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 compiler and approver
2. "*" manufacturer means any natural or legal person who manufactures radio equipment or has rad10 equipment designed or manufactured, and markets that equipment under his name or trade mark

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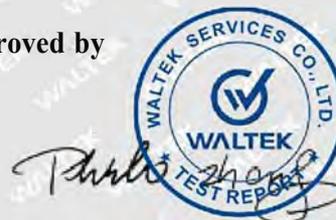
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3 Revision History

Model and/or type reference: DSBT002-W

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTF19S19120 314W003	2019-11-18	2019-11-18 to 2019-12-02	2019-12-03	original	-	Valid



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4 General Information

4.1 General Description of E.U.T.

Product : ABS Wheat Straw BT 5.0 speaker
Model(s) : DSBT002-W
Model Description: N/A
Bluetooth Vers1on: Bluetooth V5.0+EDR
Hardwareversion: V1.0
Software Version: 2.3.1

4.2 Details of E.U.T.

Ratings: Battery DC 3.7V 300mAh

4.3 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

Yes No

If Yes, list the related test items and lab information:

Test Lab: /

Lab address: /

Test items: /

4.4 Abnormalities from Standard Conditions

None.

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5 Test Summary

EMC PART		
Test Items	Test Requirement	Result
Conducted Emissions	EN 301 489-17	N/A
Radiated Emissions	EN 301 489-17	PASS
Harmonic Current Emissions	EN 301 489-17	N/A
Voltage Fluctuations and Flicker	EN 301 489-17	N/A
Electrostatic Discharge(ESD)	EN 301 489-17	PASS
Radiated Immunity (R/S)	EN 301 489-17	PASS
Electrical Fast Transients (EFT)	EN 301 489-17	N/A
Surge Immunity	EN 301 489-17	N/A
Conducted Immunity (C/S)	EN 301 489-17	N/A
Voltage Dips and Interruptions	EN 301 489-17	N/A
Remark: PASS: Test item meets the requirement N/A: Not Applicable		

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6 Equipment Used during Test

6.1 Equipments List

Conducted Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMI Test Receiver	R&S	ESCI	101155	2019-09-12	2020-09-11
2	LISN	SCHWARZBECK	NSLK 8128	8128-289	2019-09-12	2020-09-11
3	Limiter	York	MTS-IMP-136	261115-001-0024	2019-09-12	2020-09-11
4	Cable	LARGE	RF300	-	2019-09-12	2020-09-11
5	Universal Radio Communication Tester	R&S	CMU 200	112461	2019-04-13	2020-04-12
6	Universal Radio Communication Tester	R&S	CMW500	127818	2019-04-13	2020-04-12
3m Semi-anechoic Chamber for Radiation Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP	100091	2019-04-29	2020-04-28
2	Amplifier	Agilent	8447D	2944A10178	2019-01-13	2020-01-12
3	Active Loop Antenna	Beijing Dazhi	ZN30900A	0703	2019-10-17	2020-10-16
4	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2019-04-09	2020-04-08
5	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2019-09-12	2020-09-11
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2019-04-09	2020-04-08
7	Broadband Preamp	COMPLIANCE DIRECTION	PAP-1G18	2004	2019-04-13	2020-04-12
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	2019-04-13	2020-04-12
9	Universal Radio Communication Tester	R&S	CMU 200	112461	2019-04-13	2020-04-12
10	Universal Radio Communication Tester	R&S	CMW500	127818	2019-04-13	2020-04-12
Harmonic/ Flicker						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Digital Power Analyzer	SCHAFFNER	CCN 1000-1	72625	2019-04-13	2020-04-12
2	Power Source	SCHAFFNER	NSG 1007	58477	2019-04-13	2020-04-12
3	Universal Radio Communication Tester	R&S	CMU 200	112461	2019-04-13	2020-04-12
4	Universal Radio Communication Tester	R&S	CMW500	127818	2019-04-13	2020-04-12



Electrostatic Discharge						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Electrostatic Discharge Simulator	HAEFELY	PESD 1610	20011086	2019-05-31	2020-05-30
2	Universal Radio Communication Tester	R&S	CMU 200	112461	2019-04-13	2020-04-12
Conducted Immunity						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	RF Generator	TESEQ	NSG4070	25781	2019-09-12	2020-09-11
2	CDN M-Type	TESEQ	CDN M016	25112	2019-09-12	2020-09-11
3	EM-Clamp	TESEQ	KEMZ 801	25453	2019-09-12	2020-09-11
4	Attenuator 6dB	TESEQ	ATN6050	25365	2019-09-12	2020-09-11
5	Universal Radio Communication Tester	R&S	CMU 200	112461	2019-04-13	2020-04-12
6	Audio Analyzer	R&S	UPV	102011	2019-09-12	2020-09-11
7	Universal Radio Communication Tester	R&S	CMW500	127818	2019-04-13	2020-04-12
Surge, EFT, Voltage dips and Interruption						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	All Modules Generator	SCHAFFNER	6150	34579	2019-09-22	2020-09-21
2	EMS Modules Generator	EMC PARTNER TRANSIENT	2000	494	2019-09-22	2020-09-21
3	Capacitive Coupling Clamp	SCHAFFNER	CDN 8014	25311	2019-09-22	2020-09-21
4	Signal and Data Line Coupling Network	SCHAFFNER	CDN 117	25627	2019-09-22	2020-09-21
5	Universal Radio Communication Tester	R&S	CMU 200	112461	2019-04-13	2020-04-12
6	Universal Radio Communication Tester	R&S	CMW500	127818	2019-04-13	2020-04-12
Radio-frequency electromagnetic fields						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Signal Generator	R&S	SMB100A	105942	2019-09-12	2020-09-11
2	RF Power Amplifier	BONN Elektronik	BLWA0830-160/100/40D	128740	2019-09-12	2020-09-11
3	Gestockte Breitband (S tacked) Log.-per.Antenna	SCHWARZBECK	STLP9128D	043	2019-09-12	2020-09-11
4	Power Meter	R&S	NRP2	102031	2019-09-12	2020-09-11
5	Universal Radio Communication Tester	R&S	CMU 200	112461	2019-04-13	2020-04-12
6	Audio Analyzer	R&S	UPV	102011	2019-09-12	2020-09-11
7	Universal Radio Communication Tester	R&S	CMW500	127818	2019-04-13	2020-04-12



3m Semi-anechoic Chamber for Radiation(TDK)						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2019-04-13	2020-04-12
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2019-04-09	2020-04-08
3	Amplifier	ANRITSU	MH648A	M43381	2019-04-13	2020-04-12
4	Cable	HUBER+SUHNER	CBL2	525178	2019-04-13	2020-04-12
5	Universal Radio Communication Tester	R&S	CMU 200	112461	2019-04-13	2020-04-12
6	Universal Radio Communication Tester	R&S	CMW500	127818	2019-04-13	2020-04-12

6.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

6.3 Measurement Uncertainty

Parameter	Uncertainty
Conduction disturbance(150kHz~30MHz)	±3.64dB
Radiated Emission(30MHz~1GHz)	±5.08dB
Radiated Emission(1GHz~6GHz)	±4.99dB

6.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

6.5 Test Modes

Radiated Emissions	
TM1*	Bluetooth link
Electrostatic Discharge(ESD)	
TM1*	Bluetooth link
Radiated Immunity(R/S)	
TM1*	Bluetooth link
All test mode were tested and passed, only Conducted Emissions, Radiated Emissions Harmonic Current Emissions and Voltage Fluctuations and Flicker shows the worst case mode which were recorded in this report.	



7 EMC Requirements for Emissions

7.1 Radiated Emissions

Test Method	: EN 301 489-1, EN 55032
Frequency Range	: 30MHz to 1GHz, 1GHz to 6GHz
Class/Severity	: Class B/ Table A.4 of EN 55032 (30MHz to 1GHz) Class B/ A.5 of EN 55032 (1GHz to 6GHz)
Detector	: Peak for pre-scan (120kHz Resolution Bandwidth Below 1GHz; 1MHz Resolution Bandwidth Above 1GHz)

7.1.1 EUT Operation:

Operating Environment :	
Temperature	: 22.5°C
Humidity	: 52.1 % RH
Atmospheric Pressure	: 101.2kPa
EUT Operation :	
Refer to section 7.5.	

7.1.2 Test Setup

The radiated emission tests were performed using the setup accordance with the EN 55032.

Frequency Range: Below 1 GHz

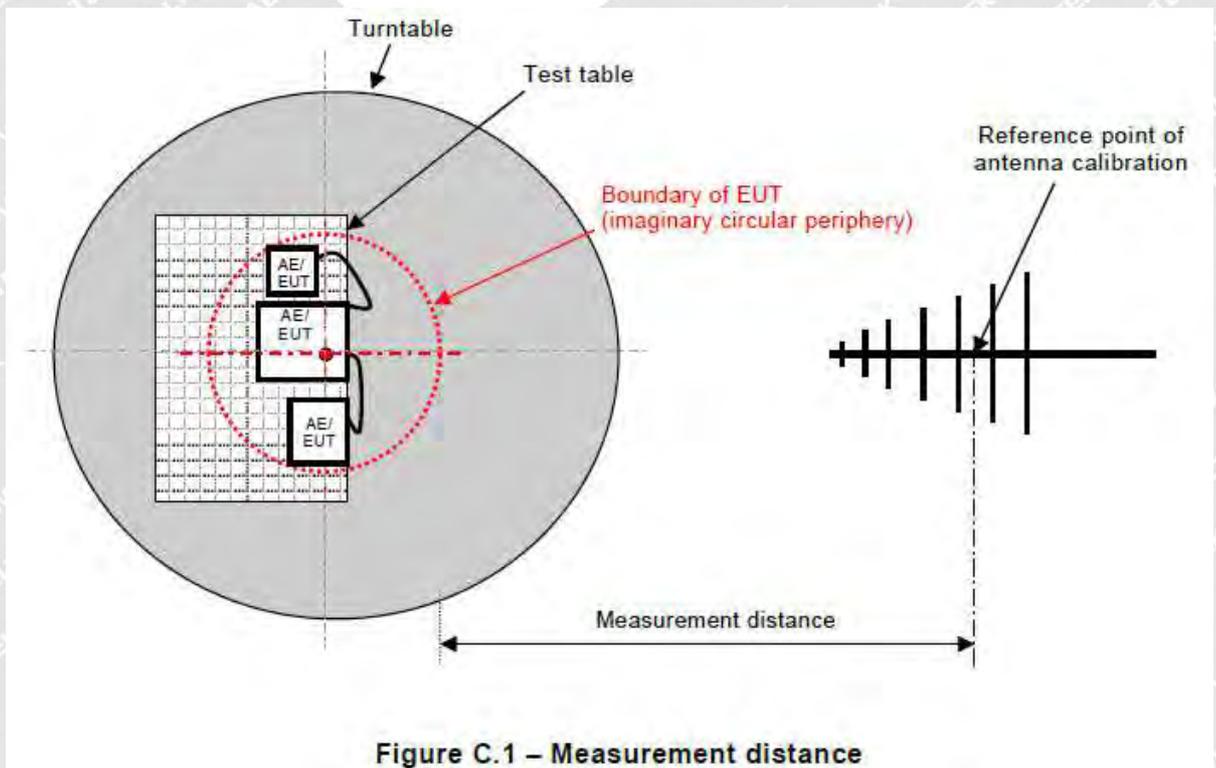
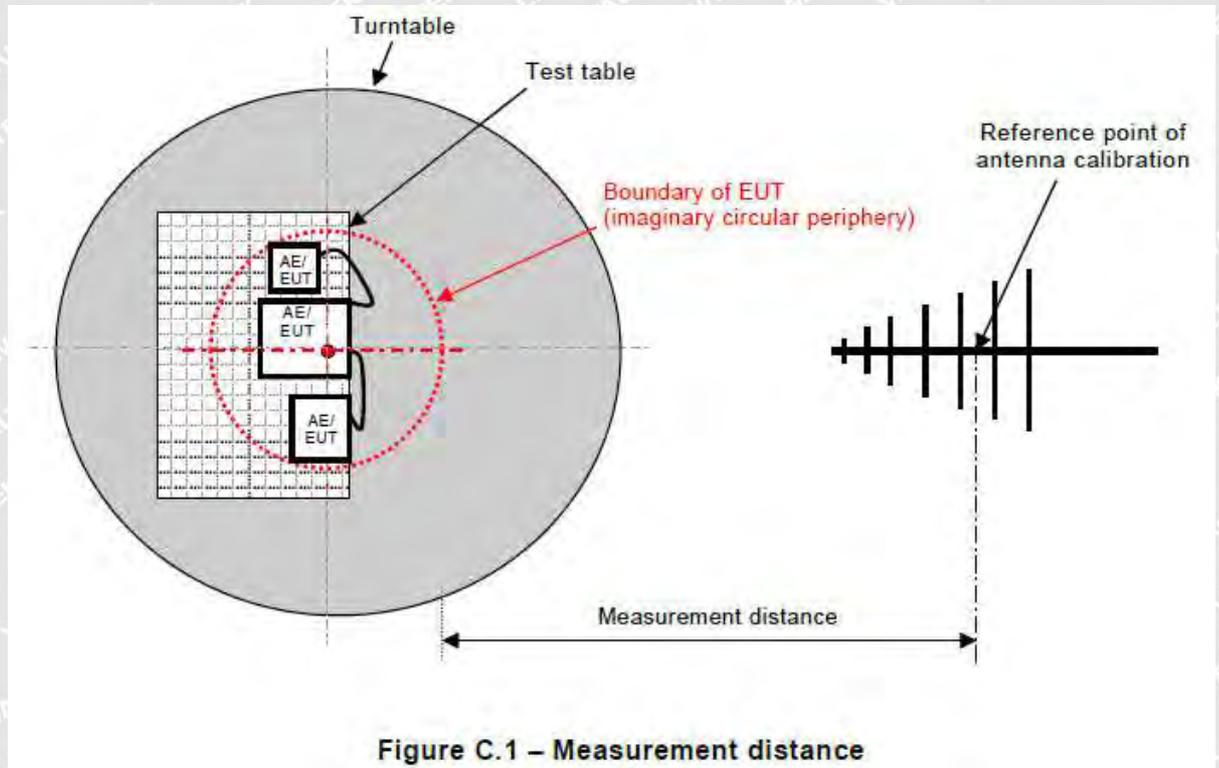


Figure C.1 – Measurement distance



Frequency Range: Above 1 GHz



7.1.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and 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 -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

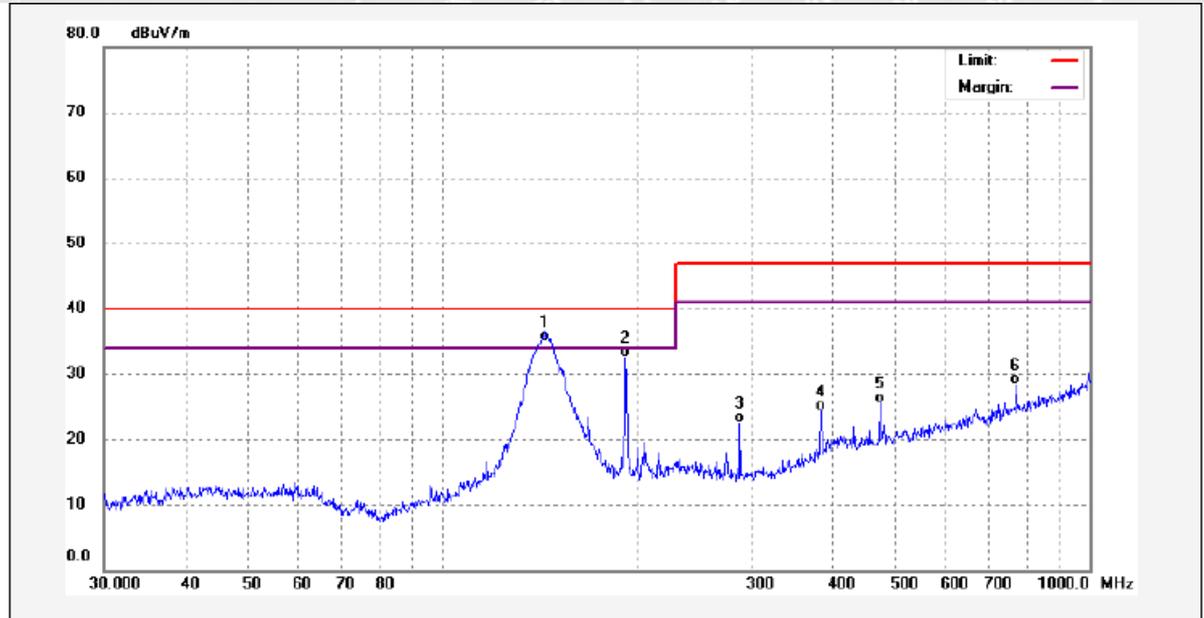
$$\text{Margin} = \text{Corr. Ampl.} - \text{Class B Limit}$$



7.1.4 Test Result

Frequency Range: 30MHz ~ 1000MHz

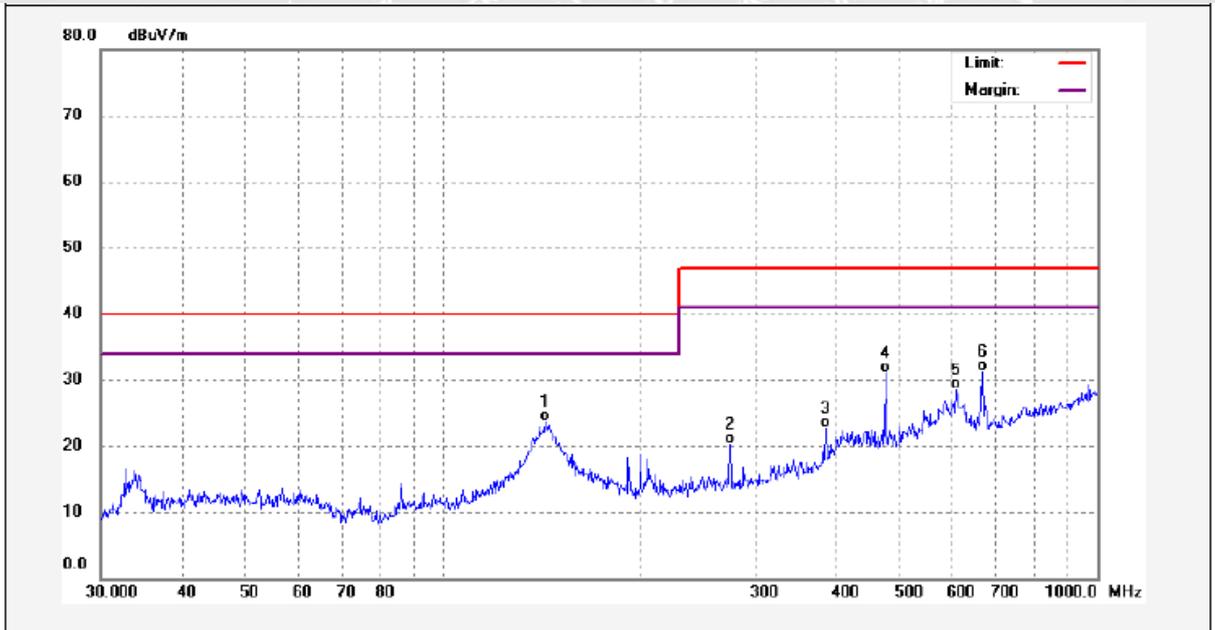
Antenna Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	143.8295	49.68	-14.68	35.00	40.00	-5.00	QP	
2	191.7450	49.64	-17.08	32.56	40.00	-7.44	QP	
3	287.9904	37.55	-15.04	22.51	47.00	-24.49	QP	
4	383.9318	36.96	-12.63	24.33	47.00	-22.67	QP	
5	473.8347	35.89	-10.32	25.57	47.00	-21.43	QP	
6	768.7481	33.10	-4.72	28.38	47.00	-18.62	QP	



Antenna Polarization: Vertical



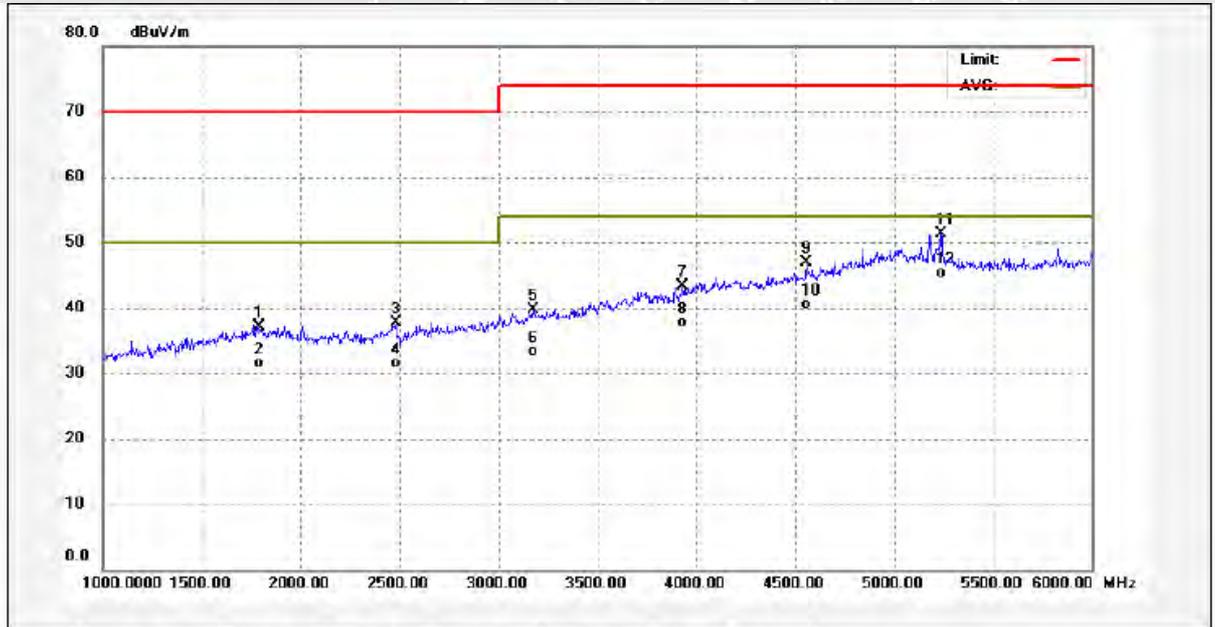
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	143.3261	38.38	-14.73	23.65	40.00	-16.35	QP	
2	274.1939	35.72	-15.36	20.36	47.00	-26.64	QP	
3	383.9318	35.31	-12.63	22.68	47.00	-24.32	QP	
4	473.8347	41.47	-10.32	31.15	47.00	-15.85	QP	
5	607.7867	36.03	-7.62	28.41	47.00	-18.59	QP	
6	665.8035	37.86	-6.57	31.29	47.00	-15.71	QP	

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Frequency Range: 1000MHz ~ 6000MHz

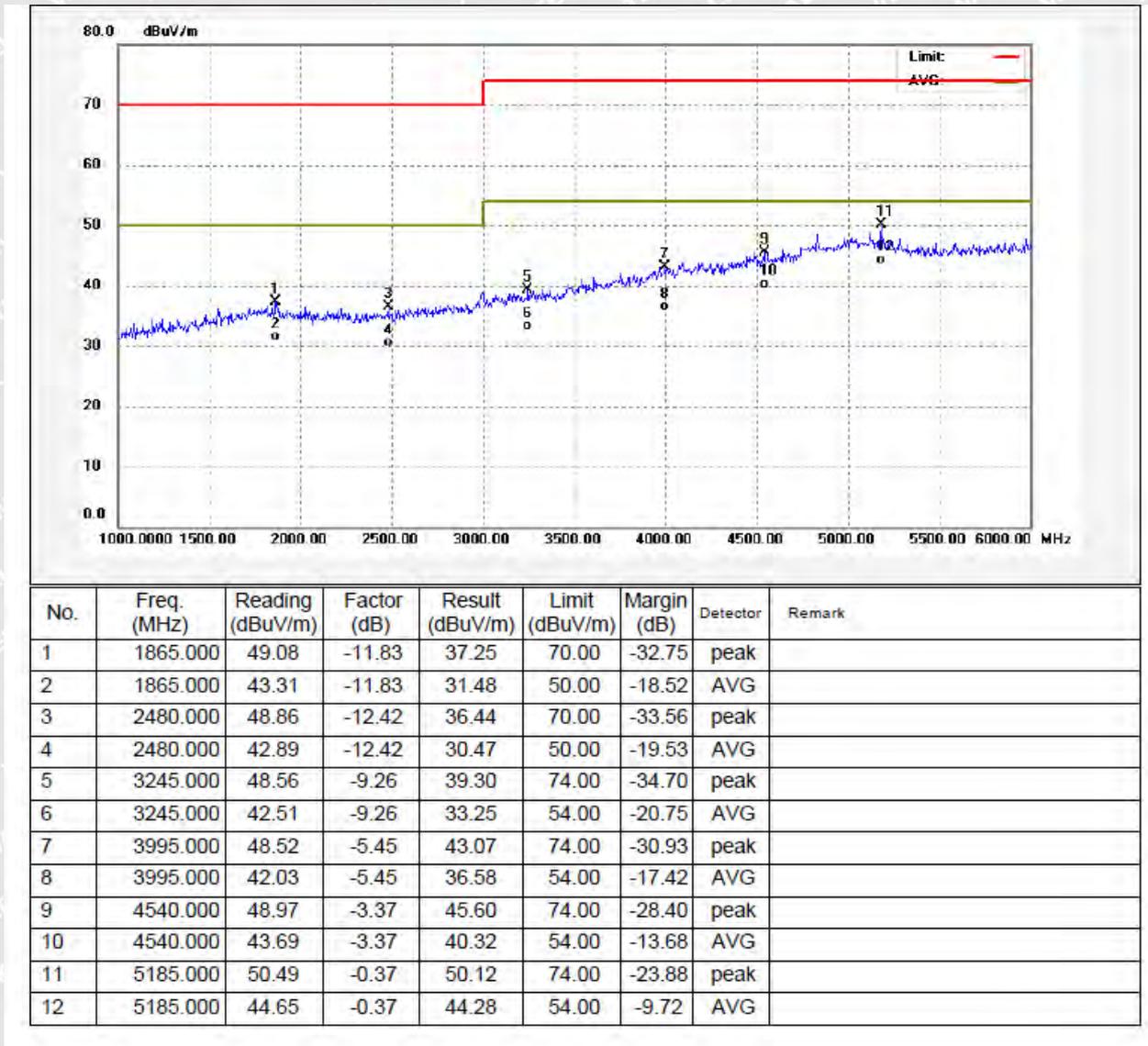
Antenna Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1790.000	46.78	-9.66	37.12	70.00	-32.88	peak	
2	1790.000	41.19	-9.66	31.53	50.00	-18.47	AVG	
3	2480.000	45.84	-8.22	37.62	70.00	-32.38	peak	
4	2480.000	39.70	-8.22	31.48	50.00	-18.52	AVG	
5	3175.000	46.22	-6.58	39.64	74.00	-34.36	peak	
6	3175.000	39.85	-6.58	33.27	54.00	-20.73	AVG	
7	3930.000	48.51	-5.25	43.26	74.00	-30.74	peak	
8	3930.000	42.90	-5.25	37.65	54.00	-16.35	AVG	
9	4555.000	50.70	-3.81	46.89	74.00	-27.11	peak	
10	4555.000	44.26	-3.81	40.45	54.00	-13.55	AVG	
11	5235.000	53.11	-1.90	51.21	74.00	-22.79	peak	
12	5235.000	47.23	-1.90	45.33	54.00	-8.67	AVG	



Antenna Polarization: Vertical





8 EMC Requirement for Immunity

8.1 Performance Criteria Description

EN 301 489-1 V2.2.0 Clause 6 requirements:

The performance criteria are used to take a decision on whether a radio equipment passes or fails immunity tests.

For the purpose of the present document four categories of performance criteria apply:

- performance criteria for continuous phenomena applied to transmitters(CT);
- performance criteria for transient phenomena applied to transmitters(TT);
- performance criteria for continuous phenomena applied to receivers(CR);
- performance criteria for transient phenomena applied to receivers(TR).

Normally, the performance criteria depend on the type of radio equipment. Thus, the present document only contains general performance criteria commonly used for the assessment of radio equipment. More specific and product-related performance criteria for a dedicated type of radio equipment may be found in the part of EN 301 489 series [i.13] dealing with the particular type of radio equipment.

Performance Criteria	Description
CT,CR	<p>If no further details are given in the relevant part of EN 301 489 series [i.13] dealing with the particular type of radio equipment, the following general performance criteria for continuous phenomena shall apply.</p> <p>During and after the test, the apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer when the apparatus is used as intended. In some cases this permissible performance level may be replaced by a permissible loss of performance.</p> <p>During the test the EUT shall not unintentionally transmit or change its actual operating state and stored data.</p> <p>If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be deduced from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.</p>
TT,TR	<p>If no further details are given in the relevant part of EN 301 489 series [i.13] dealing with the particular type of radio equipment, the following general performance criteria for transient phenomena shall apply. After the test, the apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer, when the apparatus is used as intended. In some cases this permissible performance level may be replaced by a permissible loss of performance.</p> <p>During the EMC exposure to an electromagnetic phenomenon, a degradation of performance is, however, allowed. No change of the actual mode of operation (e.g. unintended transmission) or stored data is allowed.</p> <p>If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be deduced from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.</p>

**EN 301 489-17 V3.2.0** Clause 6 requirements:

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.

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

NOTE 1: 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 2: 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.

Performance Criteria	Description
CT	The performance criteria A shall apply. Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an ACKnowledgement (ACK) or Not ACKnowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.



TT	<p>The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration, for which performance criteria C shall apply.</p> <p>Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an acknowledgement (ACK) or not-acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.</p>
CR	<p>The performance criteria A shall apply.</p> <p>Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.</p>
TR	<p>The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration for which performance criteria C shall apply.</p> <p>Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.</p>

Emission

1. General

EN 301 489-1 [1], table 2 contains the applicability of EMC emission measurements to the relevant ports of radio equipment.

2. Special conditions

No special conditions shall apply to radio equipment in the scope of the present document.

Immunity

1. General

EN 301 489-1 [1], table 2, contains the applicability of EMC immunity measurements to the relevant ports of radio equipment.

2. Special conditions

No special conditions are relevant for products covered in the present document



8.2 Electrostatic Discharge(ESD)

Test Method	: EN 301 489-1, EN 61000-4-2
Discharge Impedance	: 330 Ω / 150 pF
Discharge Voltage	: Air Discharge: +/-2,4,8 kV Contact Discharge: +/-2,4 kV HCP & VCP: +/-2,4 kV
Polarity	: Positive & Negative
Discharge Repeat Times	: At Least 20 times at each test point
Discharge Mode	: Single Discharge
Discharge Period	: 1 second minimum

8.2.1 E.U.T. Operation

Operating Environment:

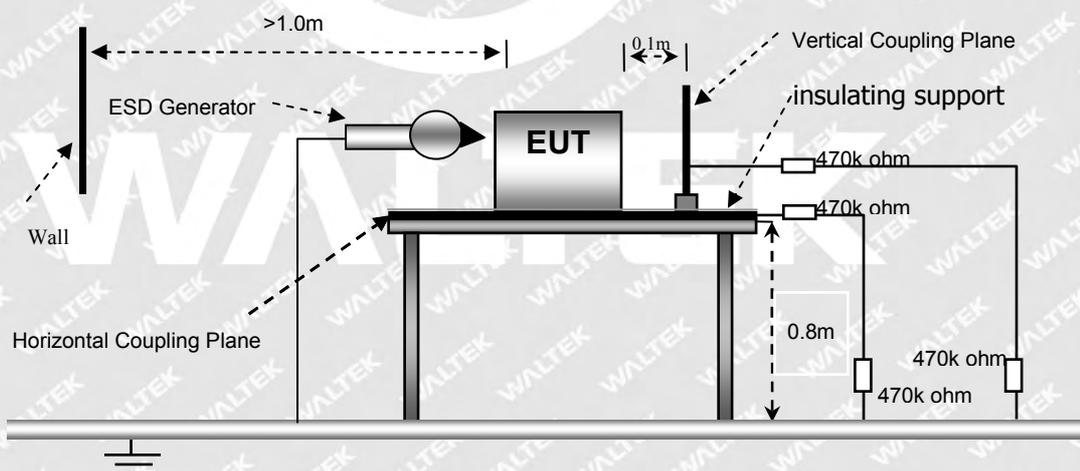
Temperature	: 21.5°C
Humidity	: 52.0 % RH
Barometric Pressure	: 101.3kPa

EUT Operation:

Refer to section 7.5.

8.2.2 Block Diagram of Setup

The ESD test was performed in accordance with the EN 61000-4-2.





8.2.3 Test Results

Indirect Application			Performance Criteria	
Discharge Level (kV)	Polarity (+/-)	Test Point	Horizontal Coupling	Vertical Coupling
2,4	+/-	1	TT/TR	TT/TR

Remark:
Test points : 1. All sides(Front/Top/ Back/ Left/Right Sides).

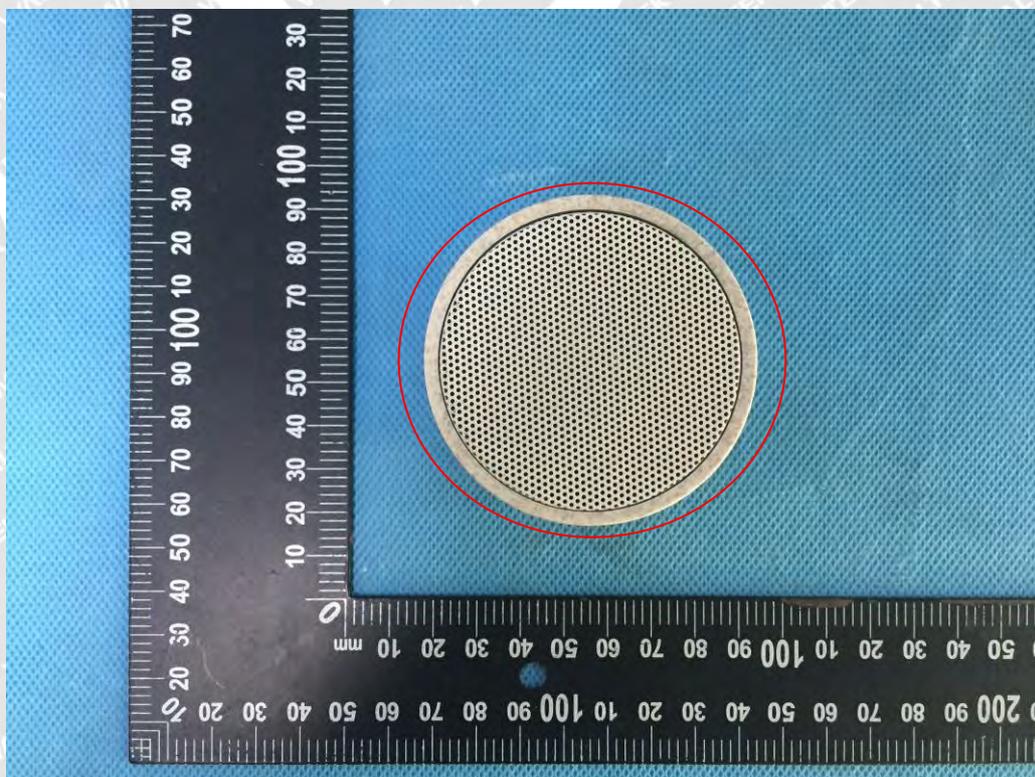
Direct Application			Performance Criteria	
Discharge Level (kV)	Polarity (+/-)	Test Point	Contact Discharge	Air Discharge
2,4,8	+/-	1	N/A	TT/TR
2,4	+/-	2	TT/TR	N/A

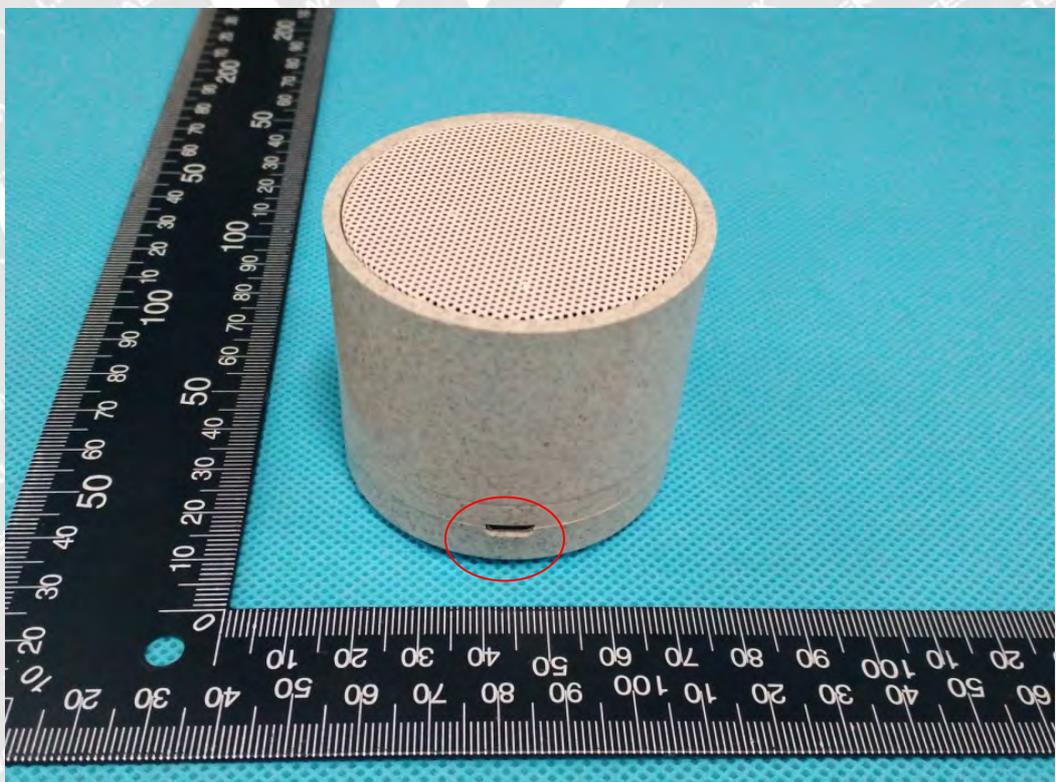
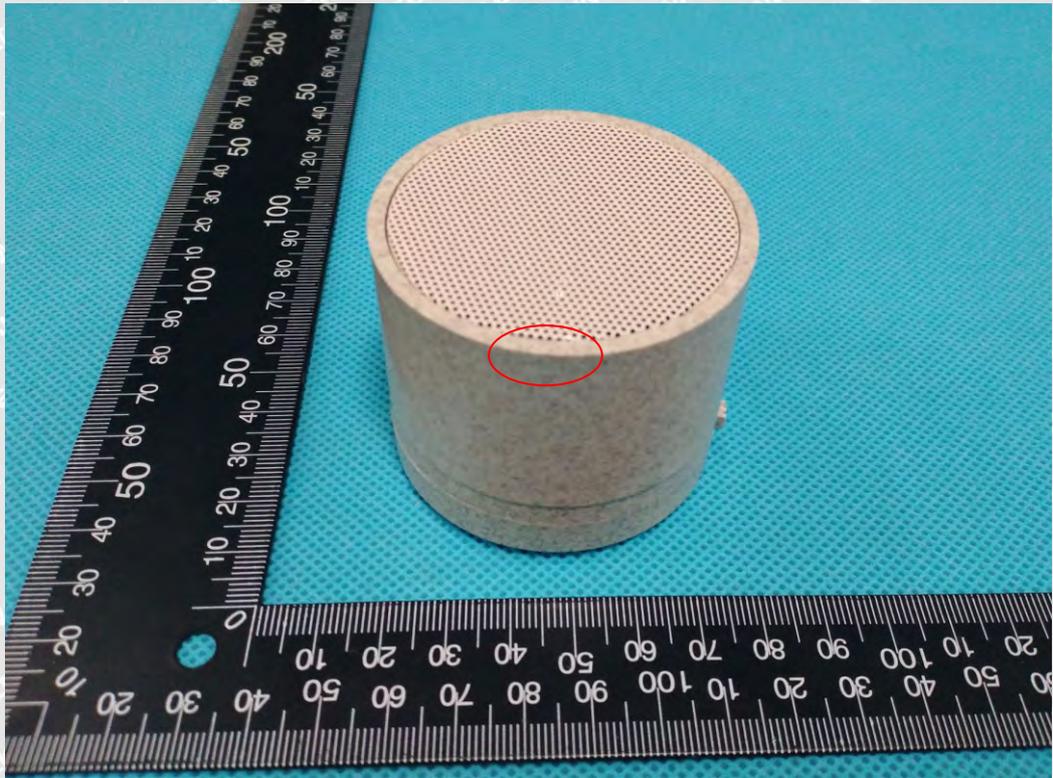
Remark:
Test points : 1. All Exposed Surface & Seams; 2. All metallic part
N/A: Not applicable.

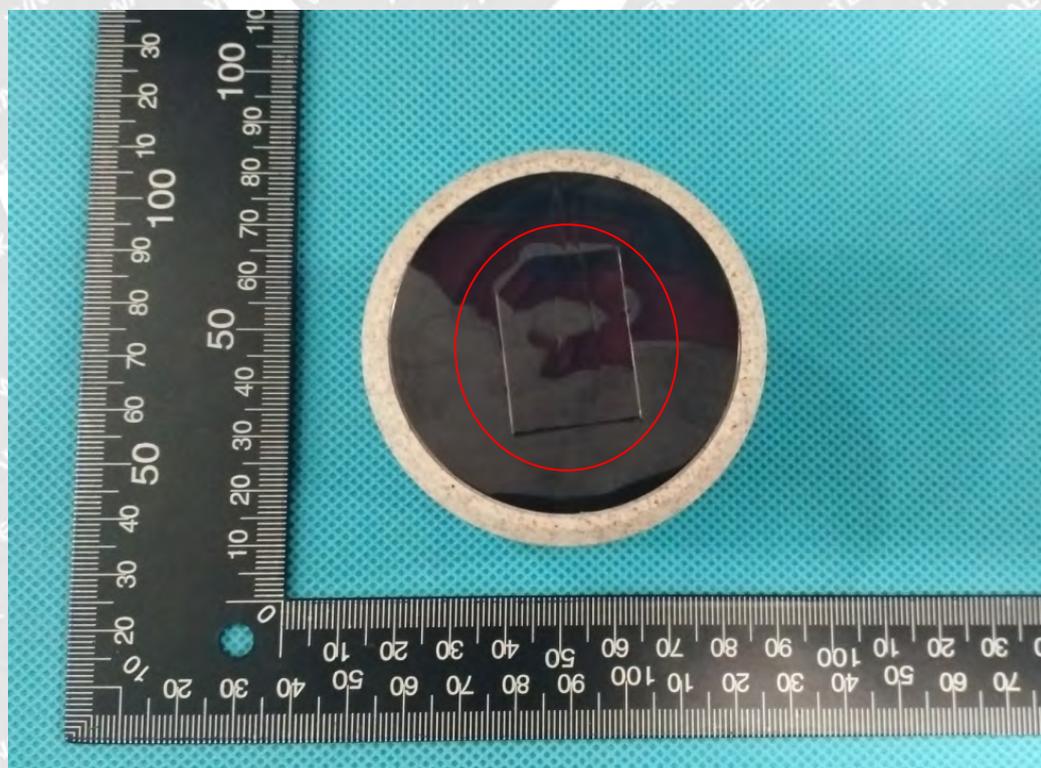
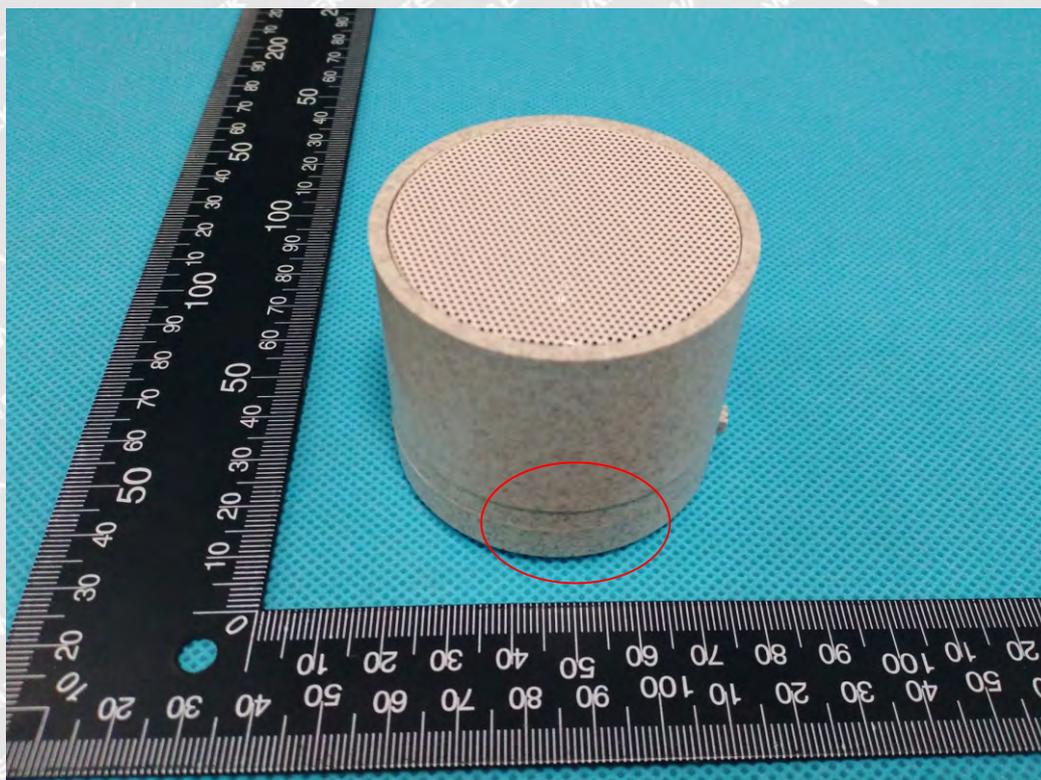
Air discharge ○

Contact discharge △

Discharge Points







8.3 Radiated Immunity(R/S)

Test Method	: EN 301 489-1, EN 61000-4-3
Face Under Test	: Three Mutually Orthogonal Faces
Severity	: 3V/m, 1kHz, 80% Amp. Mod. from 80MHz to 3GHz, 3GHz to 6GHz
Test Result	: PASS

8.3.1 E.U.T. Operation

Operating Environment:

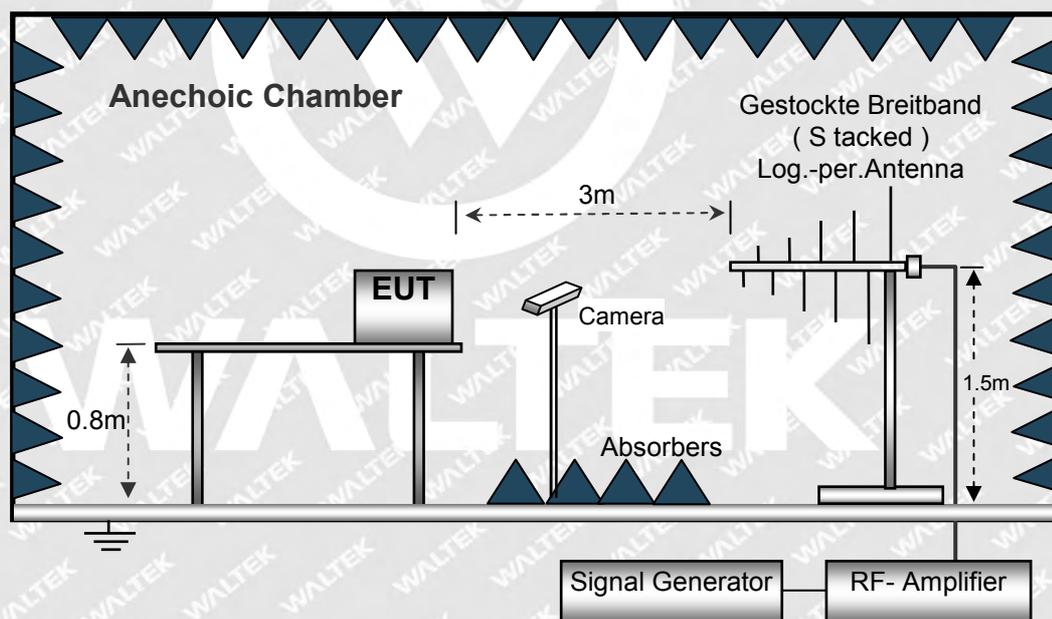
Temperature	: 21.4°C
Humidity	: 52.1 % RH
Barometric Pressure	: 101.2kPa

EUT Operation :

Refer to section 7.5.

8.3.2 Block Diagram of Setup

The Radiated Immunity test was performed in accordance with the EN 61000-4-3.





8.3.3 Test Results

Frequency	Level	Modulation	EUT Face	Performance Criteria	BER
80MHz -3GHz,	3V/m	1kHz, 80%, Amp. Mod.	Front, Back Left, Right	CT/CR	0.000%
3GHz - 6GHz	3V/m	1kHz, 80%, Amp. Mod.	Front, Back Left, Right	CT/CR	0.000%

Note 1: The stepped frequency increments may be 50 kHz increment of the momentary frequency in the frequency range 150 kHz to 5 MHz. When using the max hold detector method, initially at each test frequency step an unmodulated immunity test signal shall be applied. Then the modulation of the immunity RF test signal (1 kHz tone) shall be applied as specified in the EN 301 489-1 [1].

Note 2: The receiver mode, BER was recorded during test.





9 Photographs – Test Setup

9.1 Photograph - Radiated Emissions Test Setup

For 30MHz-1000MHz



For Above 1GHz





9.2 Photograph - Radiated immunity Test Setup



9.3 Photograph - ESD Test Setup





10 Photographs of EUT

Note: Please refer to appendix: Appendix-DSBT002-W-Photos.

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



WALTEK