

CE / EMC Test Report

Report Reference No.....: AIT19111801E2-1

Applicant's name..... Shenzhen Intelligent Voice Technology Co., Ltd

Address: 401/F,Xinghui Sci-Tech Park,Gushu 2nd Rd,Gushu Community,Xixiang St,
Bao'an Dist, Shenzhen, China.

Manufacture's Name: Shenzhen Intelligent Voice Technology Co., Ltd

Address: 401/F,Xinghui Sci-Tech Park,Gushu 2nd Rd,Gushu Community,Xixiang St,
Bao'an Dist, Shenzhen, China.

Test item description:

Product name.....: Intelligent Voice Translator

Trademark: N/A

Model and/or type reference ...: T7,T10,T10Pro,T11,T12,NTL3000

Rating(s).....: EN 55032:2015, EN 55035:2017
EN 61000-3-2:2014
EN 61000-3-3:2013+A1: 2019

Testing Laboratory information:

Testing Laboratory Name: Dongguan Yaxu (AiT) Technology Limited

Address: No.22, Jinqianling Third Street, Jitigang, Huangjiang, Dongguan,
Guangdong, China.

This device described above has been tested by Dongguan Yaxu (AiT) Technology Limited, and the test results show that the equipment under test (EUT) is in compliance with the CE requirements. And it is applicable only to the tested sample identified in the report.

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Testing.....:

Date of receipt of test item.....: Nov. 18, 2019

Date (s) of performance of tests.....: Nov. 18, 2019~Apr. 23, 2020

Date of Issue: Apr. 24, 2020

Test Result

Compiled by (+ signature).....

Approved by (+ signature).....



Seal-Chen
Brown Lu

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2 Test Summary

Test	Test Requirement	Test Method	Criterion	Result
Conducted Emission 150kHz to 30MHz	EN 55032:2015	Clause 7 of CISPR 16-2-1	Limits	PASS
Radiated Emissions 30MHz to 6GHz	EN 55032:2015	Clause 7.3 of CISPR 16-2-3	Limits	PASS
Harmonics	EN 61000-3-2: 2014	IEC 61000-3-2: 2014	N/A	N/A
Flicker	EN 61000-3-3:2013+A1: 2019	IEC 61000-3-3: 2013	Limits	N/A
Electrostatic Discharge	EN 55035:2017	IEC 61000-4-2:2008	B	PASS
R/S	EN 55035:2017	IEC 61000-4-3:2010	A	PASS
Electric Fast Transients	EN 55035:2017	IEC 61000-4-4: 2012	B	N/A
Surge	EN 55035:2017	IEC 61000-4-5:2005	B	N/A
C/S	EN 55035:2017	IEC 61000-4-6:2008	A	N/A
Power Frequency magnetic Field	EN 55035:2017	IEC 61000-4-8:2009	A	PASS
Dips	EN 55035:2017	IEC 61000-4-11:2004+A1:2017	B& C	N/A

N/A is an abbreviation for Not Applicable.

Model description: refer to the model list and instructions.

Performance criterion	During the test	After the test
<p>A</p>	<p>During and after the test the EUT shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a minimum performance level specified by the manufacturer when the EUT is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the EUT if used as intended.</p>	<p>During and after the test the EUT shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a minimum performance level specified by the manufacturer when the EUT is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the EUT if used as intended.</p>
<p>B</p>	<p>During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test. If the minimum performance level (or the permissible performance loss) is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the EUT if used as intended.</p>	<p>After the test, the EUT shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the EUT is used as intended. The performance level may be replaced by a permissible loss of performance.</p>
<p>C</p>	<p>During and after testing, a temporary loss of function is allowed, provided the function is selfrecoverable, or can be restored by the operation of the controls or cycling of the power to the EUT by the user in accordance with the manufacturer's instructions. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.</p>	<p>During and after testing, a temporary loss of function is allowed, provided the function is selfrecoverable, or can be restored by the operation of the controls or cycling of the power to the EUT by the user in accordance with the manufacturer's instructions. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.</p>

Particular performance criteria

The particular performance criteria which are specified in the normative annexes take precedence over the corresponding parts of the general performance criteria.

Where particular performance criteria for specific functions are not given, then the general performance criteria shall apply.

Product documentation

The specification used by the manufacturer to define the performance criteria for the testing required by this standard shall be made available to the user upon request.

2.1 Measurement Uncertainty

The report 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%.

No.	Item	Frequency Range	U , Value
1	Power Line Conducted Emission	150KHz~30MHz	1.20 dB
2	Disturbance Power Emission	30MHz~300MHz	2.96 dB
3	Radiated Emission Test	30MHz~1GHz	3.30 dB
4	Radiated Emission Test	1GHz~18GHz	3.30 dB

3 Test Facility

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

.CNAS- Registration No: L6177

Dongguan Yaxu (AiT) technology Limited is accredited to ISO/IEC 17025:2005 general Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the competence of testing and calibration laboratories) on Apr. 18, 2016

.Industry Canada(IC)-Registration No: IC6819A-1

The 3m Semi-Anechoic Chamber and 3m/10m Open Area Test Site of Dongguan Yaxu (AiT) Technology Limited have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing on Oct. 01, 2014.

3.1 Deviation from standard

None

3.2 Abnormalities from standard conditions

None

4 General Information

4.1 General Description of EUT

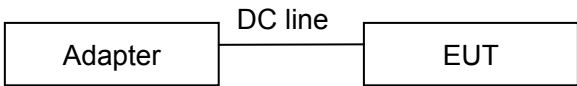
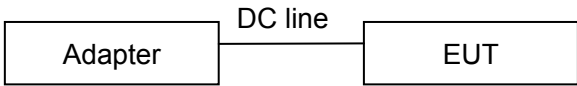
Manufacturer:	Shenzhen Intelligent Voice Technology Co., Ltd
Manufacturer Address:	401/F,Xinghui Sci-Tech Park,Gushu 2nd Rd,Gushu Community,Xixiang St, Bao'an Dist, Shenzhen, China.
EUT Name:	Intelligent Voice Translator
Model No:	T10
Serial Model:	T7, T10Pro,T11,T12,NTL3000
Brand Name:	N/A
Serial No:	N/A
H/W No.:	FR3128-F2-V1.4
S/W No.:	eng.pro-rk3128.20200403.095638
Adapter:	N/A
Battery:	DC 3.7V 1500mAh Li Battery

4.2 EUT Test Mode

Mode 1	The EUT in Charging+Camera mode.
Mode 2	The EUT in Charging+Record mode.

4.3 Description of Test setup

EUT was tested in normal configuration (Please See following Block diagrams)

1. Block diagram of EUT configuration-EMI	
Mode 1:	 <pre> graph LR Adapter[Adapter] --- DC_line[DC line] --- EUT[EUT] </pre>
Mode 2:	 <pre> graph LR Adapter[Adapter] --- DC_line[DC line] --- EUT[EUT] </pre>
2. Block diagram of EUT configuration-EMS	
The same as above.	

4.3 Test Peripheral List

No.	Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	Power cord	signal cable
1	Adapter	NOKIA	CE	N/A	N/A	N/A	N/A

4.4 EUT Peripheral List

No.	Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	signal cable
1	N/A	N/A	N/A	N/A	N/A	N/A

5 Equipments List for All Test Items

<input checked="" type="checkbox"/> Radiation Test Equipment						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	EMI Measuring Receiver	R&S	ESR	101160	2019.07.26	2020.07.25
2	Low Noise Pre Amplifier	Tsj	MLA-10K01-B01-27	1205323	2019.07.26	2020.07.25
3	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2019.07.26	2020.07.25
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2019.07.26	2020.07.25
5	SIGNAL ANALYZER	R&S	FSV40	101470	2019.07.26	2020.07.25
6	Low Noise Pre Amplifier	Tsj	MLA-0120-A02-34	2648A04738	2019.07.26	2020.07.25
7	Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	452	2019.07.26	2020.07.25

<input checked="" type="checkbox"/> Conduction Test equipment						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	EMI Test Receiver	R&S	ESCI	100124	2019.07.26	2020.07.25
2	LISN	Kyoritsu	KNW-242	8-837-4	2019.07.26	2020.07.25
3	LISN	Kyoritsu	KNW-407	8-1789-3	2019.07.26	2020.07.25
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2019.07.26	2020.07.25

<input type="checkbox"/> H/F Test Equipment						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	Signal Conditioning Unit	Schaffner	CCN1000-1	72472	2019.07.26	2020.07.25
2	5KV AC Power Source	Schaffner	NSG1007-5-208-413	57227	2019.07.26	2020.07.25

<input checked="" type="checkbox"/> ESD Test Equipment						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	ESD Simulator	Schaffner	NSG435	5866	2019.07.26	2020.07.25

<input checked="" type="checkbox"/> R/S Test Equipment						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	MXG analog signal generator	Agilent	N5181A	MY46240859	2019.07.26	2020.07.25
2	Power Amplifier	Schaffner	CBA9433	T43574	2019.07.26	2020.07.25
3	Power Amplifier	Schaffner	CBA9409	T43605	2019.07.26	2020.07.25
4	Logarithmic-periodic Antenna	Schwarzbeck	VULP9118E	820	2019.07.26	2020.07.25
5	Broadband Horn Antenna	Schwarzbeck	BBHA 9120LF	255	2019.07.26	2020.07.25
6	Power meter	Agilent	E4419B	MY45102079	2019.07.26	2020.07.25
7	Power sensor	Agilent	8481A	MY41097696	2019.07.26	2020.07.25
8	Power sensor	Agilent	8481A	MY41097697	2019.07.26	2020.07.25
9	RF Relay matrix	tsj	RFM-S621	04261	2019.07.26	2020.07.25

<input type="checkbox"/> EFT/B Test equipment						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	INS6501 Step-transformer	Schaffner	INA 6501	136	2019.07.26	2020.07.25
2	MODULA GENERATOR	Schaffner	MODULA 6150	34475	2019.07.26	2020.07.25
3	Capacitive Coupling Clamp	Schaffner	CDN8014	22519	2019.07.26	2020.07.25

<input type="checkbox"/> Surge Test Equipment						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	INS6501 step-transformer	Schaffner	INA 6501	136	2019.07.26	2020.07.25
2	MODULA GENERATOR	Schaffner	MODULA 6150	34475	2019.07.26	2020.07.25

<input type="checkbox"/> C/S Test Equipment						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	SML01 Signal Generator	R&S	SML01	104531	2019.07.26	2020.07.25
2	Power Amplifier	Schaffner	CBA9437	T43660	2019.07.26	2020.07.25
3	Attenuator	Aeroflex / Weinschel	40-6-33	PA130	2019.07.26	2020.07.25
4	Power Line CDN	tsj	TSCDN-M1-16A	07010	2019.07.26	2020.07.25
5	Power Line CDN	tsj	TSCDN-M2-16A	07024	2019.07.26	2020.07.25
6	Power Line CDN	tsj	TSCDN-M3-16A	07032	2019.07.26	2020.07.25

<input checked="" type="checkbox"/> PFMF Test Equipment						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	Magnetic field generator	Schaffner	MFO6501	34299	2019.07.26	2020.07.25
2	Magnetic Field Loop Antenna	Schaffner	INA 702	148	2019.07.26	2020.07.25

<input type="checkbox"/> Dips Test Equipment						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	INS6501 Step-transformer	Schaffner	INA 6501	136	2019.07.26	2020.07.25
2	MODULA GENERATOR	Schaffner	MODULA 6150	34475	2019.07.26	2020.07.25

Note:

1. is not applicable in this Test Report. is applicable in this Test Report.

6 Emission Test Results

6.1 Mains Terminals Disturbance Voltage Measurement

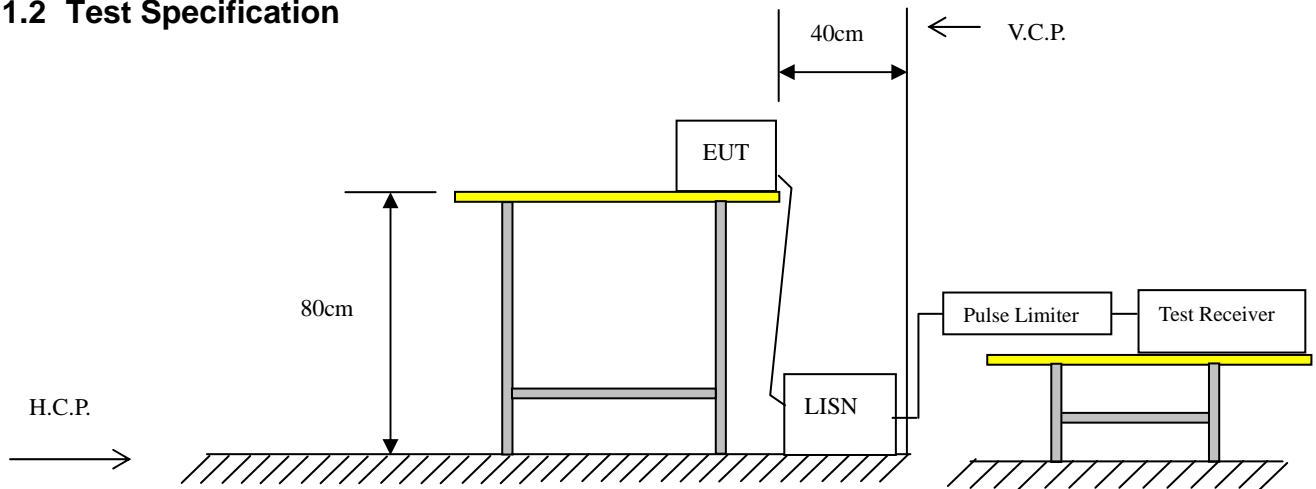
Frequency (MHz)	<input type="checkbox"/> Class (dB μ V)		<input checked="" type="checkbox"/> Class B (dB μ V)	
	Q.P. (Quasi-Peak)	A.V. (Average)	Q.P. (Quasi-Peak)	A.V. (Average)
0.15 ~ 0.50	79	66	66 to 56	56 to 46
0.50 ~ 5.0	73	60	56	46
5.0 ~ 30	73	60	60	50

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)
 Quasi-Peak & Average if maximized peak within 6dB of Average Limit

6.1.1 E.U.T. Operation

Temperature:	25°C	Humidity:	55% RH	Atmospheric Pressure:	101	Kpa
Test Mode:	Mode 1,2		The Worst Mode:		Mode 1	

6.1.2 Test Specification



EUT was placed upon a wooden test table 0.8m above the horizontal metal reference plane and 0.4m from the vertical ground plane, and it was connected to an AMN. The closest distance between the boundary of the EUT and the surface of the AMN is 0.8m. All peripherals were connected to another AMN, and placed at a distance of 10cm from each other. A spectrum and receiver was connected to the RF output port of the AMN. Both average and quasi-peak value were detected.

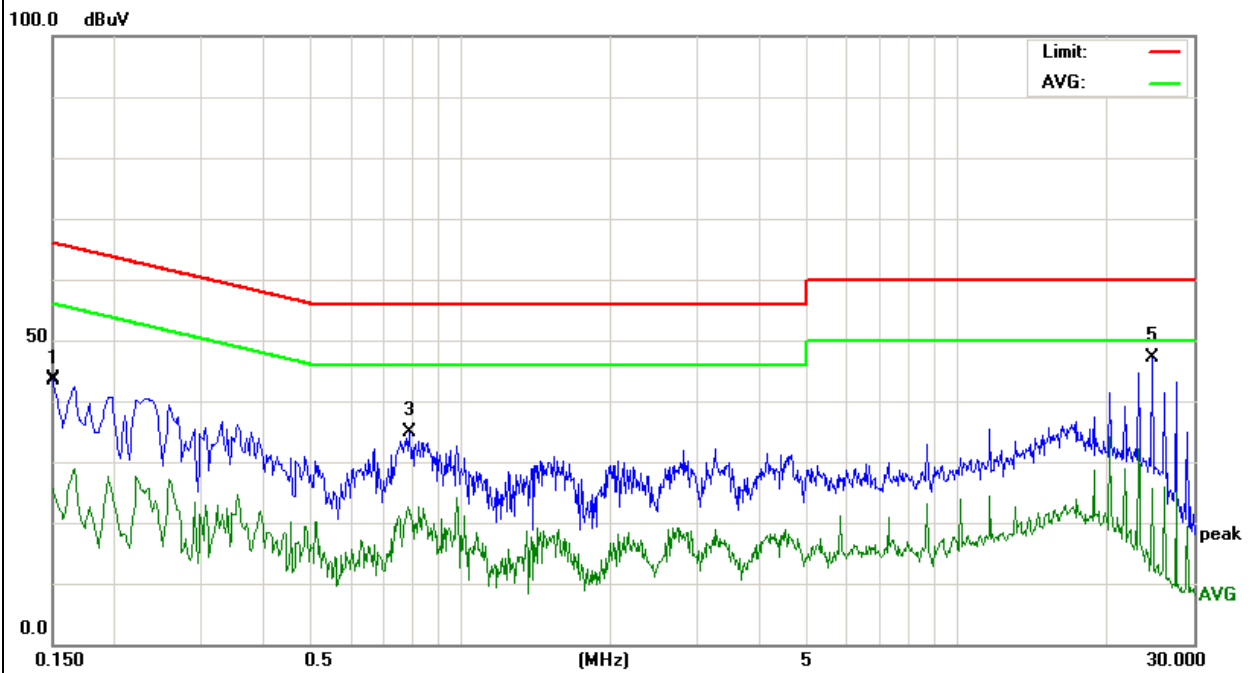
6.1.3 Measurement Data

An initial pre-scan was performed on the live and neutral lines.

Quasi-peak or average measurements were performed at the frequency which maximum peak emissions were detected.

Please refer to the attached quasi-peak & average measurement data for reference.

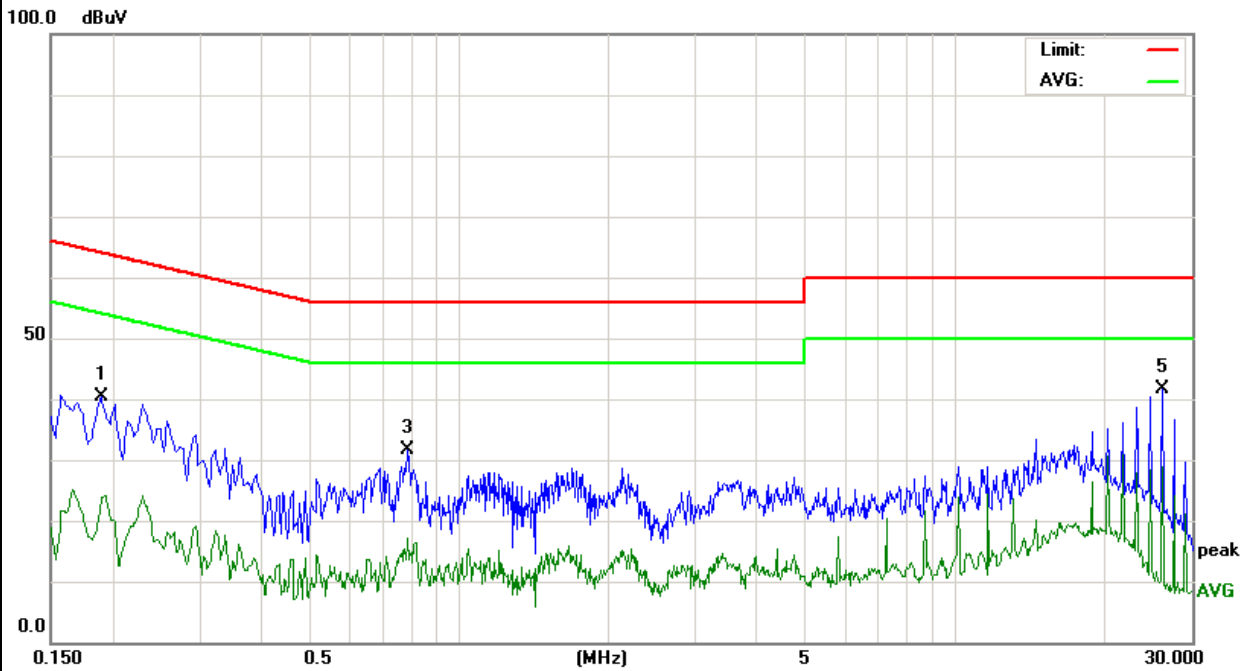
Mode:	Mode 1	Test Date :	2019-11-22
Test Voltage:	AC 230V/50Hz	Phase :	Line



Remark: Factor = LISN factor + Cable Loss + Pulse limiter factor.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV	dBuV	dB	
1		0.1500	39.47	4.03	43.50	65.99	-22.49	peak
2		0.1500	24.88	4.03	28.91	55.99	-27.08	AVG
3		0.7860	33.96	0.84	34.80	56.00	-21.20	peak
4		0.7860	21.87	0.84	22.71	46.00	-23.29	AVG
5	*	24.7139	35.73	11.30	47.03	60.00	-12.97	peak
6		24.7139	14.21	11.30	25.51	50.00	-24.49	AVG

Mode:	Mode 1	Test Date :	2019-11-22
Test Voltage:	AC 230V/50Hz	Phase :	Neutral



Remark: Factor = LISN factor + Cable Loss + Pulse limiter factor.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1900	38.27	2.22	40.49	64.03	-23.54	peak
2		0.1900	21.97	2.22	24.19	54.03	-29.84	AVG
3		0.7900	30.80	0.84	31.64	56.00	-24.36	peak
4		0.7900	16.28	0.84	17.12	46.00	-28.88	AVG
5	*	26.1620	30.14	11.37	41.51	60.00	-18.49	peak
6		26.1620	17.49	11.37	28.86	50.00	-21.14	AVG

6.1.4 Test Setup photograph



6.2 Radiated Emission Measurement

Limits of Radiated Emission Measurement (Below 1GHz)

Frequency (MHz)	<input type="checkbox"/> Class A (3m)	<input checked="" type="checkbox"/> Class B (3m)
	Quasi-Peak dB(μV/m)	
30 ~ 230	50.0	40.0
230 ~ 1000	57.0	47.0

Limits of Radiated Emission Measurement (Above 1GHz)

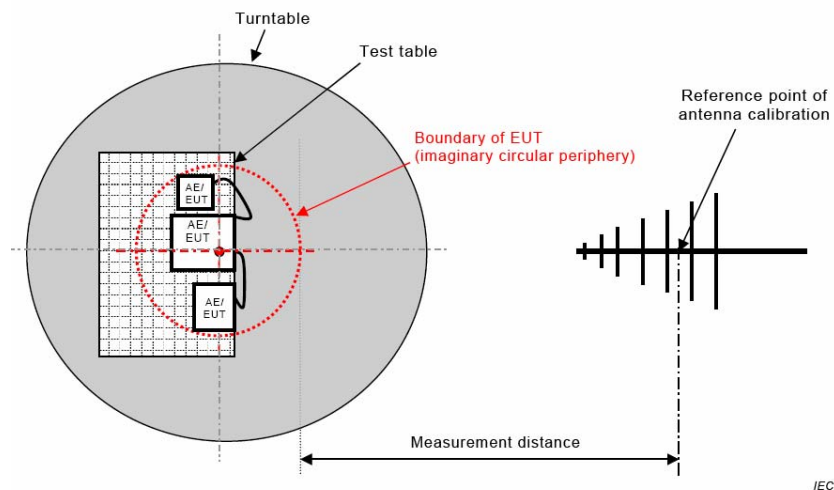
Frequency (MHz)	<input type="checkbox"/> Class A (3m)		<input checked="" type="checkbox"/> Class B (3m)	
	Peak dB(μV/m)	Average dB(μV/m)	Peak dB(μV/m)	Average dB(μV/m)
1000~3000	76	56	70	50
3000~6000	80	60	74	54

Detector:	Peak for pre-scan (120kHz resolution bandwidth)
	Quasi-Peak if maximum peak within 6dB of limit

6.2.1 E.U.T. Operation

Temperature:	25°C	Humidity:	55% RH	Atmospheric Pressure:	101	Kpa
Test Mode:	Mode 1,2			Mode 1		

6.2.2 Test Specification



EUT was placed upon a wooden test table which was placed on the turn table 0.8m above the horizontal metal ground plane, and operating in the mode as mentioned above. A receiving antenna was placed 3m away from the EUT. During testing, turn around the turn table and move the antenna from 1m to 4m to find the maximum field-strength reading. All peripherals were placed at a distance of 10cm between each other. Both horizontal and vertical antenna polarities were tested.

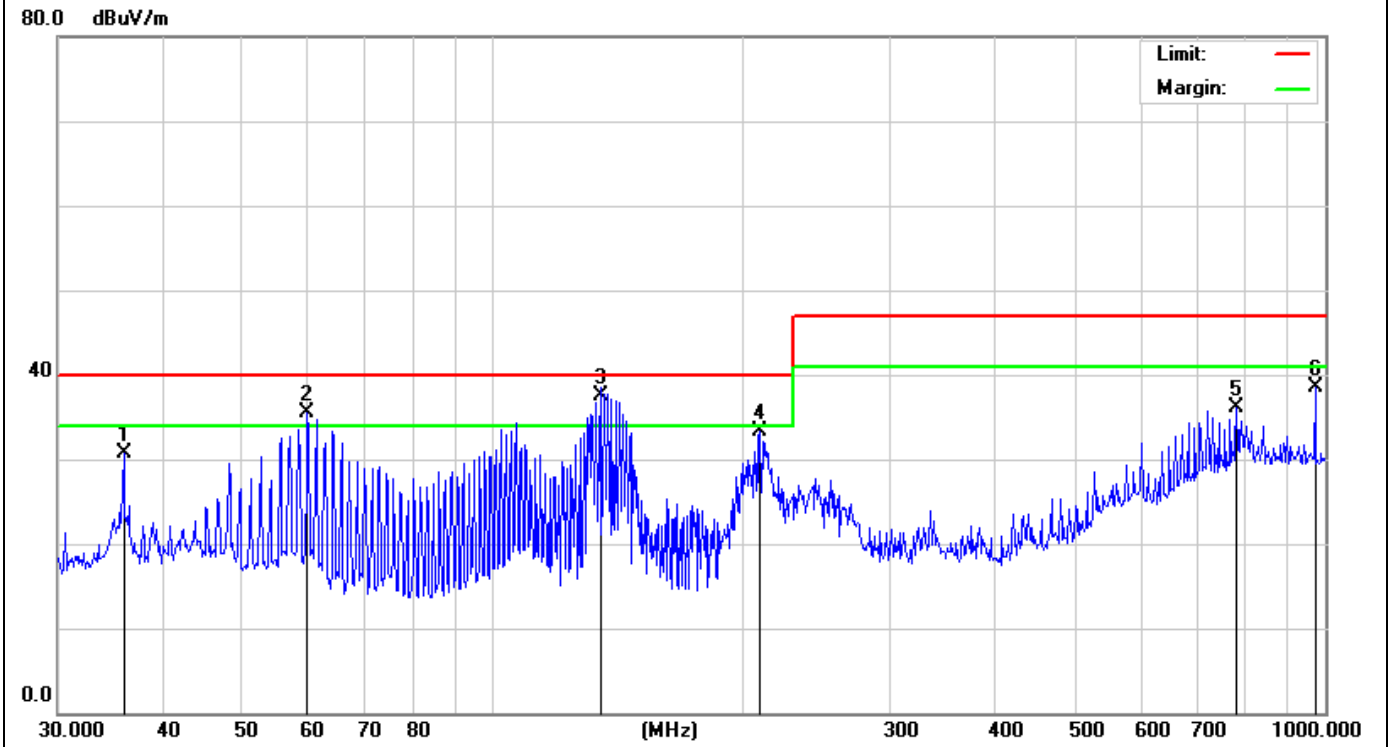
6.2.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyzers in peak detection mode. The EUT was measured by Biology antenna with 2 orthogonal polarities and peak emissions from the EUT were detected within 6dB of the class B limit line.

The following quasi-peak measurements were performed on the EUT.

Between 30 MHz - 1000 MHz

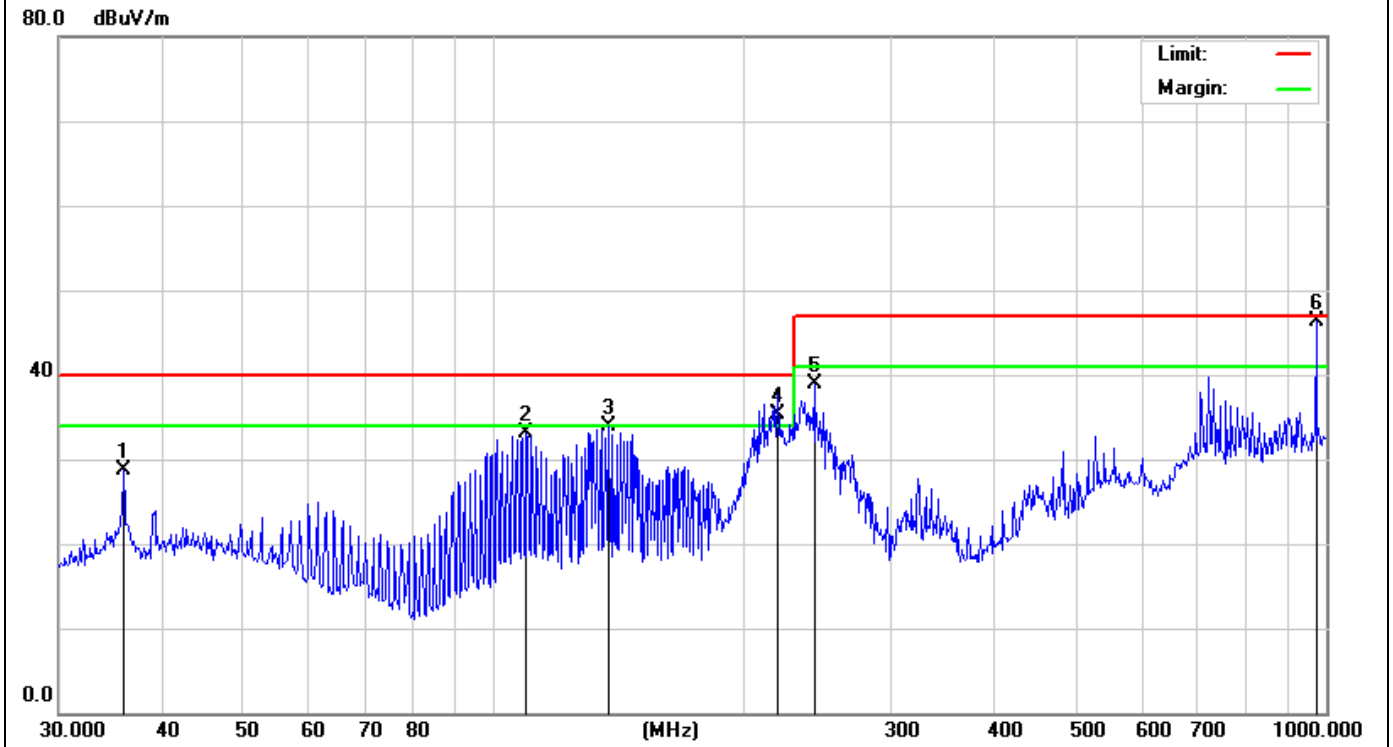
Test Mode:	Mode 1	Test Date :	2019-11-22
Test Voltage :	AC 230V/50Hz	Polarization :	Vertical



Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV	dBuV	dB	
1		0.1900	38.27	2.22	40.49	64.03	-23.54	peak
2		0.1900	21.97	2.22	24.19	54.03	-29.84	AVG
3		0.7900	30.80	0.84	31.64	56.00	-24.36	peak
4		0.7900	16.28	0.84	17.12	46.00	-28.88	AVG
5	*	26.1620	30.14	11.37	41.51	60.00	-18.49	peak
6		26.1620	17.49	11.37	28.86	50.00	-21.14	AVG

Test Mode:	Mode 1	Test Date :	2019-11-22
Test Voltage:	AC 230V/50Hz	Polarization :	Horizontal

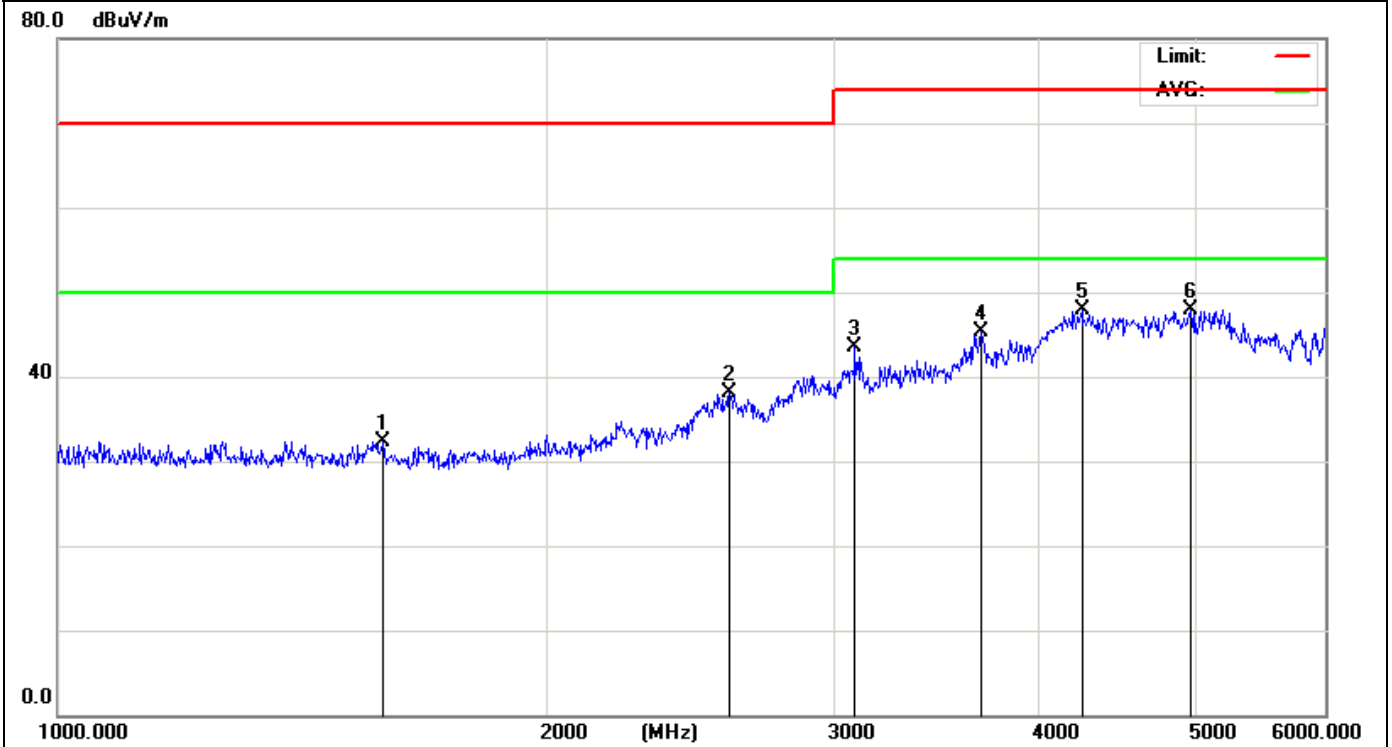


Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		35.8746	32.25	-3.47	28.78	40.00	-11.22	peak
2		109.4116	40.23	-7.05	33.18	40.00	-6.82	peak
3		137.4202	41.20	-7.36	33.84	40.00	-6.16	peak
4	!	219.0753	42.07	-6.85	35.22	40.00	-4.78	QP
5		242.5253	45.37	-6.50	38.87	47.00	-8.13	peak
6	*	972.0174	38.00	8.24	46.24	47.00	-0.76	QP

Above 1 GHz

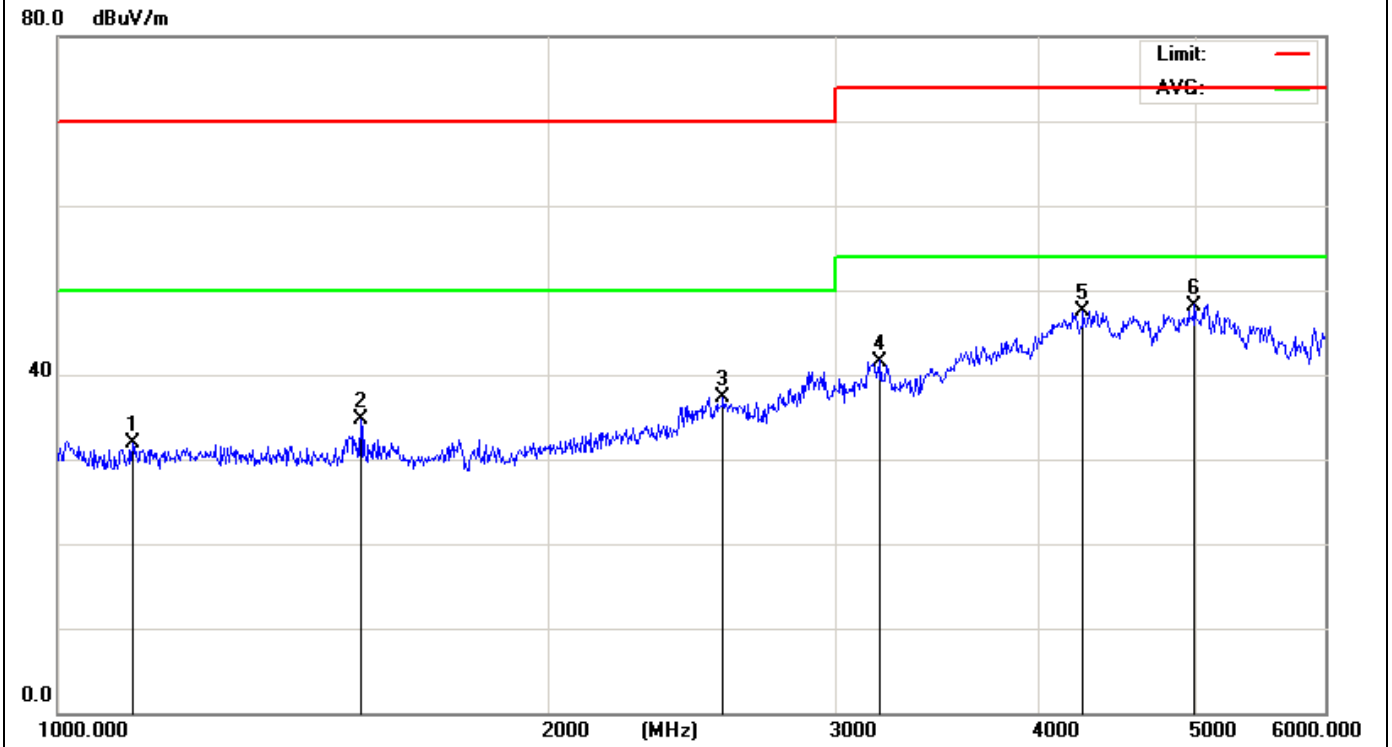
Test Mode:	Mode 1	Test Date :	2019-11-22
Test Voltage :	AC 230V/50Hz	Polarization :	Vertical



Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		1582.001	42.28	-9.88	32.40	70.00	-37.60	peak
2		2584.760	42.39	-4.29	38.10	70.00	-31.90	peak
3		3086.435	44.97	-1.47	43.50	74.00	-30.50	peak
4		3692.090	44.04	1.36	45.40	74.00	-28.60	peak
5	*	4253.498	43.76	4.24	48.00	74.00	-26.00	peak
6		4962.119	42.78	5.22	48.00	74.00	-26.00	peak

Test Mode:	Mode 1	Test Date :	2019-11-22
Test Voltage:	AC 230V/50Hz	Polarization :	Horizontal



Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		1111.504	42.80	-10.80	32.00	70.00	-38.00	peak
2		1534.540	44.56	-9.86	34.70	70.00	-35.30	peak
3		2561.707	41.82	-4.43	37.39	70.00	-32.61	peak
4		3199.044	42.80	-1.20	41.60	74.00	-32.40	peak
5		4261.126	43.24	4.26	47.50	74.00	-26.50	peak
6	*	4988.864	42.95	5.25	48.20	74.00	-25.80	peak

6.2.4 Test Setup photograph

Between 30 MHz - 1000 MHz



Between 1000 MHz -6000 MHz



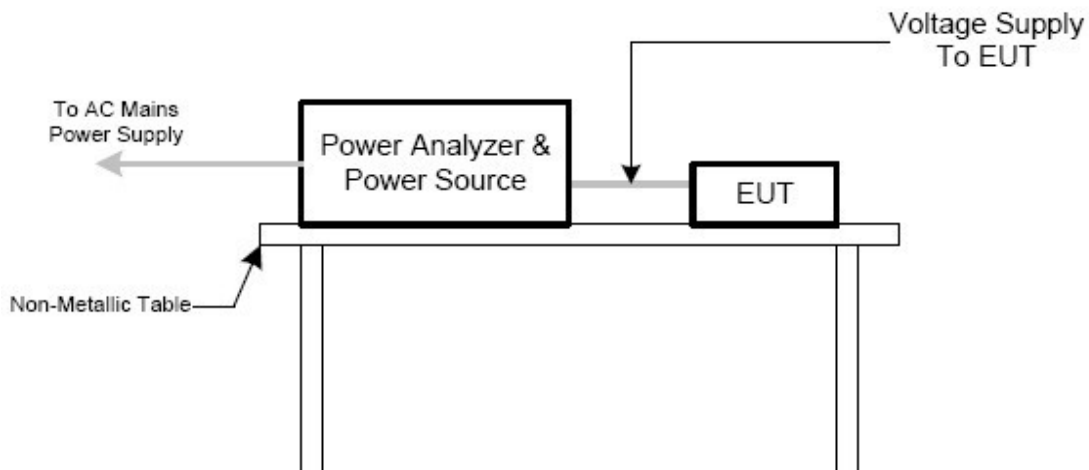
6.3 Harmonics

Test Date:	--
Frequency Range:	100Hz to 2kHz
Test Requirement:	EN 61000-3-2

6.3.1 E.U.T. Operation

Temperature:	--	Humidity:	--	Atmospheric Pressure:	--	Kpa
Test Mode:	--			The Worst Mode:	--	

6.3.2 Test specification



EUT operated in the mode as mentioned above, and connected to Harmonic/Flicker measuring equipment which was connected to an AC power source. Measurement was performed after EUT operating in static state for 10 seconds. Each order harmonics found to meet the relevant limits.

6.3.3 Measurement Data

Frequency range: 100Hz to 2kHz

Measurement Time: 3 min

Test Date: N/A

Remark:

Since the EUT (rated power is less than 75W) was belong to exception of clause 7 and Annex C, according to EN 61000-3-2 figure 1, it was deemed to conform to the requirements of this standard without further testing.

“The procedure for applying the limits and assessing the results is shown in Figure 1.

For the following categories of equipment limits are not specified in this edition of the standard.

Note 1: Equipment with a rated power of 75W or less, other than lighting equipment.

NOTE 2 This value June be reduced from 75 W to 50 W in the future, subject to approval by National Committees at that time.

- professional equipment with a total rated power greater than 1 kW;
- symmetrically controlled heating elements with a rated power less than or equal to 200 W;
- independent dimmers for incandescent lamps with a rated power less than or equal to 1 kW.

NOTE 3 See also C.5.3.”

And

No limit applies for all lighting equipments with active input power ≤ 25 W except

Discharge lighting equipment (refer to 7.3 b)

For further details, please refer to Clause 7 & Annex C of EN 61000-3-2 for reference.

6.3.4 Test Setup photograph

None

7 Immunity Test Results

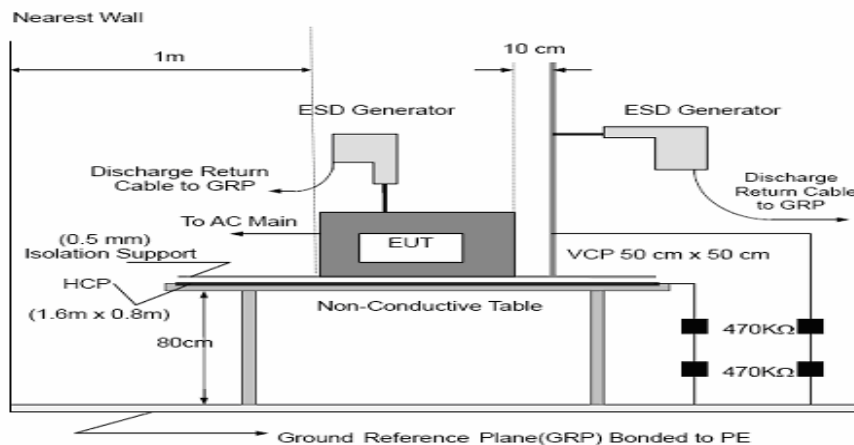
7.1 Electrostatic discharge immunity test

Acceptable Performance Criterion:	B
Discharge Impedance:	330 Ω / 150 pF
Discharge Voltage:	Air Discharge: ±8 kV
	Contact Discharge: ±4 kV
	VCP, HCP: ±4 kV
Polarity:	Positive & Negative
Minimum discharge Interval:	1 second

7.1.1 E.U.T. Operation

Temperature:	25°C	Humidity:	53% RH	Atmospheric Pressure:	101	Kpa
Test Mode:	Mode 1,2					

7.1.2 Test specification



EUT was operated in the mode as mentioned above. Both contact and air discharge was executed. Contact discharge to the conductive surfaces and to coupling planes; air discharge at insulating surfaces. Each test point shall be subjected to 25 discharges at least (For each voltage and polarity).

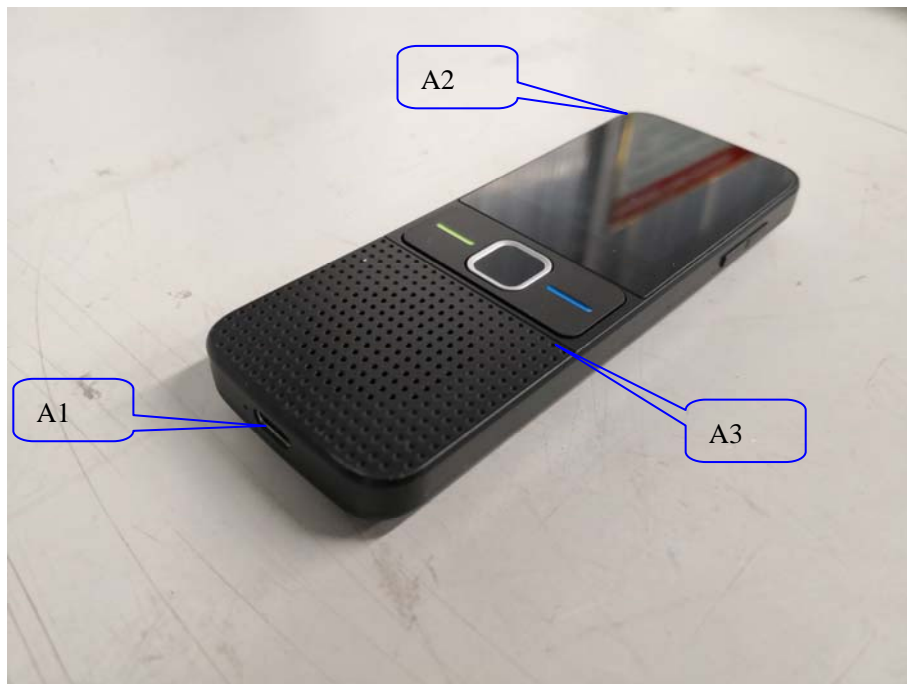
7.1.3 Measurement Data

Test Record

Electrostatic Discharge Test Results																		
M/N:	T10								Test Result: <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail									
Test Voltage:	DC 5V from adapter, AC 230V/50Hz for adapter								Test date: 2019-12-04									
Test Mode:	Mode 1,2																	
Discharge times	Contact discharge: minimum <u>10</u> times (+/-respectively) at each point, Air discharge: minimum <u>10</u> times (+/- respectively) at each point.																	
Discharge Mode	Air Discharge								Contact Discharge								Performance Criterion	Result
	4		8		10		15		2		4		6		8			
Test Location	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
HCP											P	P					B	Pass
VCP											P	P						Pass
A1	P	P	P	P														Pass
A2	P	P	P	P														Pass
A3	P	P	P	P														Pass
A4	P	P	P	P														Pass
A5	P	P	P	P														Pass
A6	P	P	P	P													Pass	

Note: "P" means Pass, Horizontal Coupling Plane (HCP) and Vertical Coupling plane (VCP).
"Cx" means Contact Point ,x=1~N,"Ax" means Air Point, x=1~N.

7.1.4 Test Setup Photograph





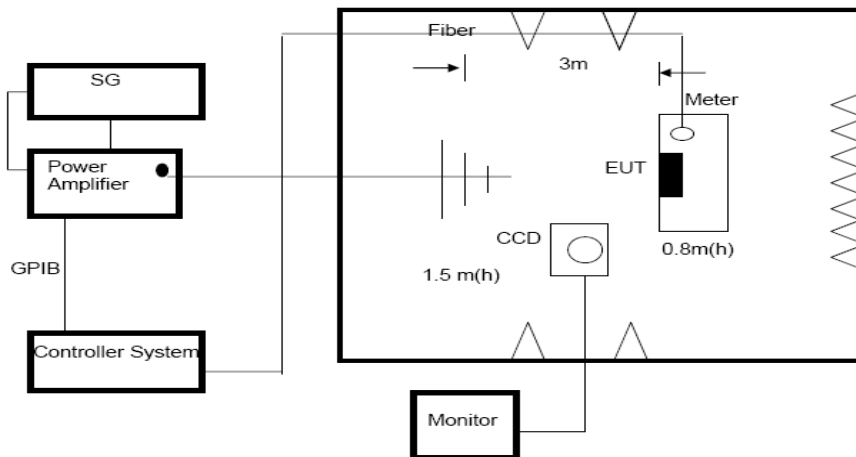
7.2 RF field strength immunity test

Acceptable Performance Criterion:	A
Frequency Range & Test Level	80MHz~1000MHz, 1800 MHz, 2600 MHz, 3500 MHz, 5000 MHz, 3V/m
Test Distance	3 m
Polarity:	Horizontal & Vertical

7.2.1 E.U.T. Operation

Temperature:	25°C	Humidity:	53% RH	Atmospheric Pressure:	101	Kpa
Test Mode:	Mode 1,2					

7.2.2 Test specification



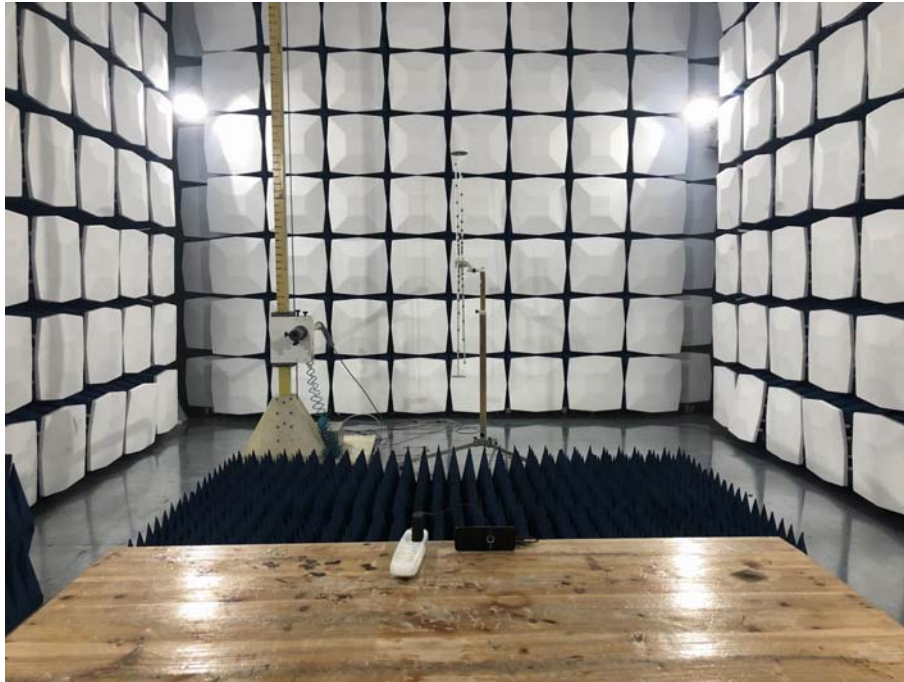
Test was executed in a fully Anechoic chamber. An antenna was used to transmit interference signal. EUT was placed upon a wooden table above the reference ground 0.8m, and was positioned so that the four sides of the EUT shall be exposed to the electromagnetic field in a sequence. In each position the performance of the EUT was investigated. A camera was used to monitor the loss of function or degradation of performance of the EUT.

7.2.3 Measurement Data

Test Record

Radiated Frequency Field Strength Susceptibility Results				
M/N:	T10	Test Result: <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		
Test Voltage:	AC 230V/50Hz	Test date: 2019-11-22		
Test Port	Enclosure			
Operating Mode	Mode 1,2			
Test Level	3 V/m(r.m.s) (unmodulated)		Criterion	A
Frequency Range(MHz)	Antenna polarity	Modulation	EUT position	Result
80~1000 1800 2600 3500 5000	Horizontal	1KHz, 80% AM	Front	Pass
			Rear	Pass
			Left	Pass
			Right	Pass
			Top	Pass
			Bottom	Pass
80~1000 1800 2600 3500 5000	Vertical	1KHz, 80% AM	Front	Pass
			Rear	Pass
			Left	Pass
			Right	Pass
			Top	Pass
			Bottom	Pass
Note: During the test no deviation was detected to the selected operation mode(s).				

7.2.4 Test Setup Photograph



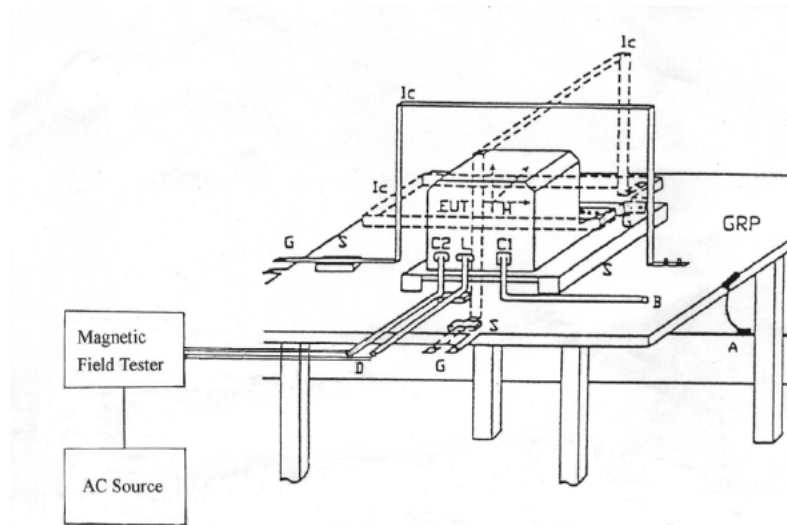
7.3 Power frequency magnetic field immunity test

Acceptable Performance Criterion:	A
Test Level:	1 A/m
Coil Orientation:	X & Y & Z
Test Duration:	5 Minutes for each orientation

7.3.1 E.U.T. Operation

Temperature:	25°C	Humidity:	53% RH	Atmospheric Pressure:	101	Kpa
Test Mode:	Mode 1,2					

7.3.2 Test specification



The equipment is configured and connected to satisfy its functional requirements. It was placed on the ground reference plane with the interposition of a 0.1 m thickness wooden support and was placed in the center of the induction coil. All cables (include power cord and signal line) were exposed to the magnetic field for at least 1m of their length.

7.3.3 Measurement Data

Test Record

Form: AMC 410-14

Power Frequency Magnetic Field Immunity Test Results				
M/N:	T10	Test Result: <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		
Operating Mode	Mode 1,2			
Test Level	Test Duration	Coil Orientation	Criterion	Result
1 A/m	5 minus	X	A	Pass
1 A/m	5 minus	Y	A	Pass
1 A/m	5 minus	Z	A	Pass
Test Equipment: (1) Magnetic field generator / M/N:MFO6501 (2) Magnetic Field Loop Antenna / M/N:INA 702				
Note:				

7.3.4 Test Setup Photograph



****End of the report****