

CE EMC TEST REPORT FOR

Applicant	:	ADAPT B.V.	
Address	••	Kenaupark 33-2, Haarlem, Netherlands 2011MR	
Equipment under Test	:	Synergy, Lite Up Play, Sphere, Atmos	
Model No.	•	Synergy-35, Synergy-50, Synergy-65, Lite Up Play, Sphere, Atmos	
Trade Mark	••	Kooduu	
Manufacturer	:	RAKOIT TECHNOLOGY(SZ) CO., LTD.	
Address		Floor 13th, Building 2 Block B, Baiwang R&D Building, Baimang Community, Xili Street, Nanshan District, Shenzhen, Guangdong Province, P.R. China	

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

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TEST REPORT DECLARE

Applicant	:	ADAPT B.V.		
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Address	 Floor 13th, Building 2 Block B, Baiwang R&D Building, Baimang Community, Xili Street, Nanshan District, Shen: Guangdong Province, P.R. China 			

Test Standard Used:

EN 55032:2015, EN 55032:2015/A11:2020, EN 55035:2017, EN 55035:2017/A11:2020, EN IEC 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment in accordance with above standards about the electromagnetic compatibility requirements of EMC Directive 2014/30EU.

Report No.:	DDT-R22051001-1E02		
Date of Receipt:	Jun. 06, 2022	Date of Test:	Jun. 06, 2022 ~ Jun. 28, 2022



Prepared By:

Eddie Lin

Eddie Liu/Engineer



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd. .

Revision History

Rev.	Revisions	Issue Date	Revised By
	Initial issue	S Jul. 05, 2022	0
	-of		al









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1. Summary of Test Results

EMISS	ION (EMI)	
Description of Test Item	Standard	Result
Conducted disturbance at mains terminals	EN 55032:2015, EN 55032:2015/A11:2020	PASS
Asymmetric mode conducted emissions	EN 55032:2015, EN 55032:2015/A11:2020	N/A
Conducted differential voltage emissions	EN 55032:2015, EN 55032:2015/A11:2020	N/A
Radiated disturbance	EN 55032:2015, EN 55032:2015/A11:2020	PASS
Harmonic current emissions	EN IEC 61000-3-2:2019/A1:2021	N/A
Voltage fluctuations & flicker	EN 61000-3-3:2013/A2:2021	PASS
IMMUN	ITY (EMS)	
Description of Test Item	Standard	Results
Electrostatic discharge (ESD)	EN 55035:2017, EN 55035:2017/A11:2020	PASS
Continuous radio frequency disturbances	EN 55035:2017, EN 55035:2017/A11:2020	PASS
Electrical fast transients (EFT)	EN 55035:2017, EN 55035:2017/A11:2020	PASS
Surges	EN 55035:2017, EN 55035:2017/A11:2020	PASS
Continuous conducted disturbances	EN 55035:2017, EN 55035:2017/A11:2020	PASS
Power-frequency magnetic fields	EN 55035:2017, EN 55035:2017/A11:2020	PASS
Voltage dips and interruptions	EN 55035:2017, EN 55035:2017/A11:2020	PASS

Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.

Note: 1. The EMI measurements had been made in the operating mode producing the largest emission in the frequency band being investigated consistent with normal applications. An attempt had been made to maximize the emission by varying the configuration of the EUT.

2. The EMS measurements had been made in the frequency bands being investigated, with the EUT in the most susceptible operating mode consistent with normal applications. The configuration of the test sample had been varied to achieve maximum susceptibility.

2. General Test Information

2.1. Description of EUT

EUT* Name	:	Synergy, Lite Up Play, Sphere, Atmos	
Model Number	:	Synergy-35, Synergy-50, Synergy-65, Lite Up Play, Sphere, Atmos	
Model difference	:	Only the model and appearance are different, there is no other difference. So, choose Synergy-35 to test.	
EUT function description	:	Please reference user manual of this device	
Power supply	1.00	DC 5V powered by external adapter, or 7.4V built-in lithium battery	
EUT Class (Only For EMI)	:	□Class A, ⊠Class B	
Maximum work frequency	:	2480 MHz	
Sample Type	:	: Series production	
Serial Number	:	S22051001-01	

Note 1: EUT is the abbreviation of equipment under test.

Note 2: " \boxtimes " means to be chosen or applicable; " \square " means don't to be chosen or not applicable; This note applies to entire report.

Note 3: Equipment meeting Class A requirements may not offer adequate protection to broadcast services within a residential environment; The Class B requirements for equipment are intended to offer adequate protection to broadcast services within the residential environment. Equipment compliant with the class A requirements of standard EN 55032 should have a warning notice in the user manual stating that it could cause radio interference. For example, Warning: Operation of this equipment in a residential environment could cause radio interference.

Note 4: The accessories of this product are only power cables, and the length of other signal cables and control cables used during the test is less than 3 meters.

2.2. Primary function of EUT

Function	Description
Broadcast reception function	N/A
□Print	N/A
□Scan	N/A
□Display and display output	N/A
☐Musical tone generating	N/A
□Networking	N/A
□Audio output	N/A
Telephony	N/A
⊠Bluetooth	Bluetooth music
⊇Other:	N/A

function, N/A means not applicable

2.3. Port of EUT

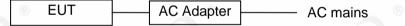
Port	Description		
⊠AC mains power port	Powered by DC 5V external adapter		
DC network power port	N/A		
□Wired network port	N/A		
□Signal data/control port	N/A		
□Antenna port	N/A		
□Audio input port	N/A		
□Video input port	N/A		
□Audio output port	N/A		
□Video output port	N/A		
□Other:	N/A		

2.4. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Serial No.	Other
N/A	N/A	N/A	N/A	⊚ N/A

2.5. Block diagram EUT configuration for test

For mode 1: Charging mode



2.6. Decision of final test mode

	Conducted Emission	Mode 1
Emission	Radiated emission	Mode 1
	Voltage fluctuation and flicker	Mode 1
	Electrostatic discharge	Mode 1
	Continuous RF electromagnetic field disturbances	Mode 1
Inamaunity	Electrical fast transients / burst	Mode 1
Immunity	Surges	Mode 1
	Continuous induced RF disturbances	Mode 1
) <i>"</i>	Power-frequency magnetic fields	Mode 1
	Voltage dips and interruptions	Mode 1

2.7. Deviations of test standard

No Deviation.

2.8. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	20-25 ℃	
Humidity range: 🔬	40-75%	
Pressure range:	86-106kPa	

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.9. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,

Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01 FCC Designation Number: CN1182, Test Firm Registration Number: 540522 Innovation, Science and Economic Development Canada Site Registration Number: 10288A Conformity Assessment Body identifier: CN0048 VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

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2.10. Measurement uncertainty

Test ItemUncertaintyConducted disturbance at mains terminals1#: 3.72dB (9 kHz to 150 kHz), 3.34dB (15 2#: 3.75dB (9 kHz to 150 kHz), 3.39dB (15 3#: 3.78dB (9 kHz to 150 kHz), 3.37dB (15 3#: 3.78dB (9 kHz to 150 kHz), 3.37dB (15 3#: 3.78dB (9 kHz to 150 kHz), 3.37dB (15 1#: AAN with aLCL = 55 40 dBc AAN with aLCL = 65 50 dBc: AAN with aLCL = 75 60 dBc: 2#: AAN with aLCL = 65 50 dBc: AAN with aLCL = 55 40 dBc AAN with aLCL = 55 40 dBc AAN with aLCL = 55 40 dBc AAN with aLCL = 75 60 dBc: 1#: 4.94 dB (Antenna Polarize 4.68 dB (Antenna Polarize 2#: 4.94 dB (Antenna Polarize ABC (Antenna Polarize)	0 kHz to 30 MHz 0 kHz to 30 MHz : 3.64 dB 4.08 dB 4.56 dB : 3.82 dB 3.96 dB 4.12 dB e: V)
Conducted disturbance at mains terminals2#: 3.75dB (9 kHz to 150 kHz), 3.39dB (15 3#: 3.78dB (9 kHz to 150 kHz), 3.37dB (15 3#: 3.78dB (9 kHz to 150 kHz), 3.37dB (15 1#: AAN with aLCL = 55 40 dBc AAN with aLCL = 65 50 dBc: AAN with aLCL = 75 60 dBc: 2#: AAN with aLCL = 65 50 dBc: AAN with aLCL = 55 40 dBc AAN with aLCL = 75 60 dBc: AAN with aLCL = 75 60 dBc: 2#: 4.94 dB (Antenna Polarize 2#: 4.94 dB (Antenna Polarize)	0 kHz to 30 MHz 0 kHz to 30 MHz : 3.64 dB 4.08 dB 4.56 dB : 3.82 dB 3.96 dB 4.12 dB e: V)
terminals2#: 3.75dB (9 kHz to 150 kHz), 3.39dB (15 3#: 3.78dB (9 kHz to 150 kHz), 3.37dB (15 3#: 3.78dB (9 kHz to 150 kHz), 3.37dB (15 1#: AAN with aLCL = 55 40 dBc AAN with aLCL = 65 50 dBc: 2#: AAN with aLCL = 55 40 dBc AAN with aLCL = 55 40 dBc 2#: AAN with aLCL = 55 40 dBc AAN with aLCL = 55 50 dBc: AAN with aLCL = 55 60 dBc: AAN with aLCL = 75 60 dBc: 	0 kHz to 30 MHz :: 3.64 dB 4.08 dB 4.56 dB :: 3.82 dB 3.96 dB 4.12 dB e: V)
3#: 3.78dB (9 kHz to 150 kHz), 3.37dB (15(150 kHz), 3.37dB (15)Uncertainty for telecommunication port conduction emission test1#: AAN with aLCL = 55 40 dBc: AAN with aLCL = 75 60 dBc: 2#: AAN with aLCL = 55 40 dBc AAN with aLCL = 75 60 dBc: 1#: 4.94 dB (Antenna Polarize 2#: 4.94 dB (Antenna Polarize) 2#: 4.94 dB (Antenna Polarize)	:: 3.64 dB 4.08 dB 4.56 dB :: 3.82 dB 3.96 dB 4.12 dB e: V)
Uncertainty for telecommunication port conduction emission testAAN with aLCL = 65 50 dBc: AAN with aLCL = 75 60 dBc: 2#: AAN with aLCL = 55 40 dBc AAN with aLCL = 65 50 dBc: AAN with aLCL = 65 50 dBc: AAN with aLCL = 65 50 dBc: AAN with aLCL = 75 60 dBc: 1#: 4.94 dB (Antenna Polarize 2#: 4.94 dB (Antenna Polarize 2#: 4.94 dB (Antenna Polarize)	4.08 dB 4.56 dB :: 3.82 dB 3.96 dB 4.12 dB e: V)
Uncertainty for AAN with aLCL = 75 60 dBc: telecommunication port 2#: AAN with aLCL = 55 40 dBc conduction emission test AAN with aLCL = 65 50 dBc: AAN with aLCL = 75 60 dBc: AAN with aLCL = 75 60 dBc: AAN with aLCL = 75 60 dBc: AAN with aLCL = 75 60 dBc: AAN with aLCL = 75 60 dBc: AAN with aLCL = 75 60 dBc: AAN with aLCL = 75 60 dBc: 1#: 4.94 dB (Antenna Polarize) 2#: 4.94 dB (Antenna Polarize) 2#: 4.94 dB (Antenna Polarize)	4.56 dB :: 3.82 dB 3.96 dB 4.12 dB e: V)
telecommunication port conduction emission test AAN with aLCL = 75 60 dBC. 2#: AAN with aLCL = 55 40 dBC. AAN with aLCL = 55 40 dBC. AAN with aLCL = 65 50 dBC: AAN with aLCL = 65 50 dBC: AAN with aLCL = 75 60 dBC: 2#: 4.94 dB (Antenna Polarize) 2#: 4.94 dB (Antenna Polarize)	:: 3.82 dB 3.96 dB 4.12 dB e: V)
conduction emission test 2#. AAN with aLCL = 55 40 dBC AAN with aLCL = 65 50 dBC: AAN with aLCL = 75 60 dBC: 1#: 4.94 dB (Antenna Polarize 4.68 dB (Antenna Polarize 2#: 4.94 dB (Antenna Polarize) 2#: 4.94 dB (Antenna Polarize)	3.96 dB 4.12 dB e: V)
AAN with aLCL = 65 50 dBc: AAN with aLCL = 75 60 dBc: 1#: 4.94 dB (Antenna Polarize 4.68 dB (Antenna Polarize 2#: 4.94 dB (Antenna Polarize	4.12 dB e: V)
1#: 4.94 dB (Antenna Polarize 4.68 dB (Antenna Polarize 2#: 4.94 dB (Antenna Polarize	e: V) 📃 🛞
4.68 dB (Àntenna Polarize 2#: 4.94 dB (Antenna Polarize	,
Uncertainty for radiation 2#: 4.94 dB (Antenna Polarize	
	: H)
Uncertainty for faulation 4.60 dD (Antenna Delerize	e: V)
emission test	: H)
	e: V)
(30 MHz-1 GHz) 4.64 dB (Antenna Polarize	: H)
10m: 4.48 dB (Antenna Polariz	ze: V)
4.64 dB (Antenna Polarize	e: H)
Uncertainty for radiation 1#: 4.10 dB (1-6 GHz)	¥.,
disturbance test (1 GHz to 6 GHz) 3#: 4.54 dB (1-6 GHz)	~
Uncertainty for Flicker test 0.2%	
Uncertainty for Harmonic test 5%	
Rise time: 4%	
Uncertainty for Electrostatic Peak current: 3.1%	
discharge Current at 30 ns: 3.1%	
Current at 60 ns: 3.1%	
Peak of the open-circuit voltage im	pulse: 3%
Front time of the open-circuit voltage	impulse: 5%
Uncertainty for Surge Width of the open-circuit voltage im	pulse: 5%
Peak of the short-circuit current imp	ulse: 2.7%
Front time of the short-circuit current	impulse: 5%
Duration of the short-circuit current in	mpulse: 3%
Uncertainty for Electrical fast Voltage rise time: 3.7%	
transients Peak vollage value. 3.4%	
Voltage pulse width: 3.7%	, D
Uncertainty for Continuous 0.25dB	
conducted disturbances	3
Uncertainty for Continuous radio	
frequency disturbances	
Uncertainty for Power-frequency 10%	
magnetic fields	
Uncertainty for Voltage dips and 3.7%	
interruptions 3.7%	
Temperature 0.4 °C	
Humidity 2%	
Note: This uncertainty represents an expanded uncertainty expressed at app	proximately the
95% confidence level using a coverage factor of k=2.	

3. Conducted Emission Test Report (AC mains power ports)

3.1. Test Equipment

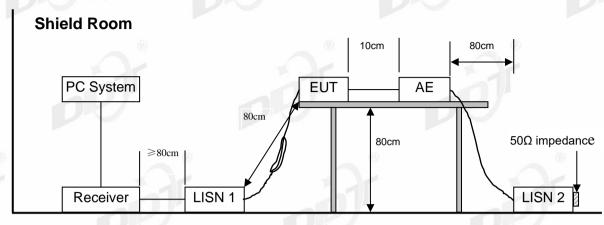
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
□ 1# Conducted em	nission				
Test Receiver	R&S	ESCI	100551	Sep. 02, 2021	1 Year
LISN 1	R&S	ENV216	101109	Sep. 07, 2021	1 Year
LISN 2	R&S	ESH2-Z5	100309	Sep. 07, 2021	1 Year
Pulse Limiter	R&S 🛞	ESH3-Z2	101242	Sep. 02, 2021	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Sep. 02, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
⊠ 2# Conducted em	ission		1		1
Test Receiver	R&S	ESCI	101028	Sep. 02, 2021	1 Year
LISN 1	R&S	ENV216	101170	Sep. 07, 2021	1 Year
LISN 2 [®]	R&S 📃 🛞	ENV216	101209	Sep. 02, 2021	1 Year
Pulse Limiter	R&S	KH43101	4310118015 68-12#	May 17, 2022	1 Year
CE Cable 2	HUBSER	RG214-5	N/A	May 17, 2022	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
3# Conducted em	ission				
Test Receiver	R&S	ESCI	101032	Apr. 08, 2022	1 Year
LISN 1	R&S 🖌	ENV216	101725	Sep. 02, 2021	1 Year
LISN 2	R&S	ENV216	101726	Sep. 02, 2021	1 Year
LISN 3	SCHWARZBECK	NSLK 8163	00017	Sep. 02, 2021	1 Year
Pulse Limiter	SCHWARZBECK	VTSD 95	102766	Sep. 02, 2021	1 Year
CE Cable 3	HUBSER	Z806-NJ-NJ-2M	21070280	May. 19, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
Notes. N/A means No	ot applicable.				

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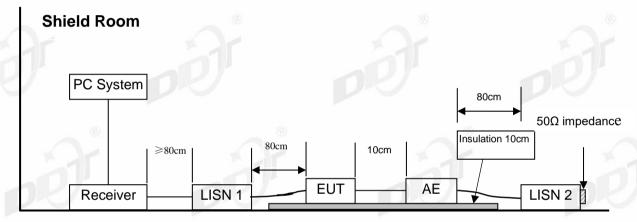
Report No.: DDT-R22051001-1E02

3.2. Block Diagram of Test Setup

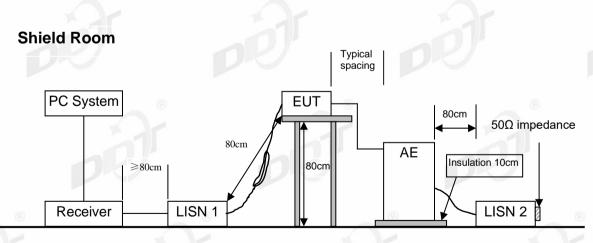
For table-top equipment



For floor standing equipment



For combinations equipment



3.3. Limits

Class A

Frequency			Quasi-Peak Level dB(μ V)	Average Level dB(μ V)	
150kHz	~	500kHz	79	66	
500kHz	~	30MHz	73	60	

Class B

Frequency			Quasi-Peak Level dB(µV)	Average Level dB(μ V)		
[®] 150kHz	~	500kHz	66 ~ 56*	56 ~ 46*		
500kHz	~	5MHz	56	46		
5MHz	~	30MHz	60	50		

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and assistant equipment as shown in section 2.5 and 3.2.
- (3) The EUT's power adapter was connected to the power mains through a line impedance stabilization network (L.I.S.N). which this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted disturbance. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to EN 55032 on conducted disturbance emission test.
- (4) The bandwidth of test receiver is set at 9 kHz.
- (5) The frequency range from 150 kHz to 30MHz is checked.

3.5. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Adapter	SAMSUNG	EP-TA200	N/A	INPUT: AC 100V- 240V,50/60Hz, 0.5A Output: 5V/2A
Charging cable	N/A	N/A	N/A	N/A

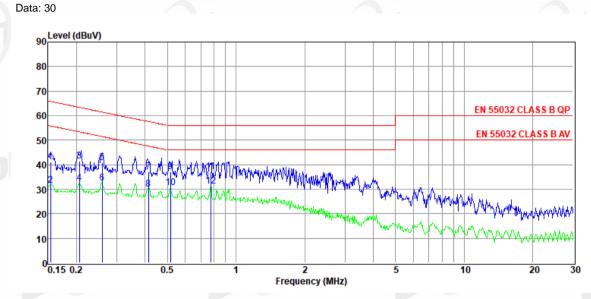
3.6. Test Result

PASS. (See below detailed test result)

Note 1: All emissions not reported below are too low against the prescribed limits. Note 2: "-----" means Peak detection; "-----" means Average detection.

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 5# Shield Room	D:\2022 report da	ata\Q22051001-1E\0609 CE.EM6
Test Date	: 2022-06-09	Tested By	: Andy Nie
EUT	: Synergy	Model Number	: Synergy-35
Power Supply	: AC 240V/50Hz	Test Mode	: Charging mode
Condition	: Temp:24.5°C,Humi:55.5%,Press:100.1kPa	LISN	: 2021 2# ENV216/NEUTRAL
Memo	<u>.</u>		



ltem	Freq.	Read	LISN	Cable	Pulse	Result	Limit	Over	Detector	Phase
		Level	Factor	Loss	Limiter	Level	Line	Limit	8	
(1.4		(10.10)			Factor					
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)		
1	0.15	21.62	9.59	0.03	10.01	41.25	65.78	-24.53	QP	NEUTRAL
2	0.15	12.06	9.59	0.03	10.01	31.69	55.78	-24.09	Average	NEUTRAL
3	0.21	21.83	9.49	0.04	10.01	41.37	63.36	-21.99	QP	NEUTRAL
4	0.21	12.81	9.49	0.04	10.01	32.35	53.36	-21.01	Average	NEUTRAL
5	0.26	21.32	9.44	0.04	10.01	40.81	61.47	-20.66	QP	NEUTRAL
6	0.26	13.07	9.44	0.04	10.01	32.56	[≫] 51.47	-18.91	Average	NEUTRAL
7	0.41	17.69	9.34	0.05	10.01	37.09	57.59	-20.50	QP	NEUTRAL
8	0.41	10.58	9.34	0.05	10.01	29.98	47.59	-17.61	Average	NEUTRAL
9	0.52	17.67	9.32	0.05	10.01	37.05	56.00	-18.95	QP	NEUTRAL
10	0.52	11.26	9.32	0.05	10.01	30.64	46.00	-15.36	Average	NEUTRAL
11	0.78	17.43	9.47	0.07	10.01	36.98	56.00	-19.02	QP	NEUTRAL
12	0.78	11.82	9.47	0.07	10.01	31.37	46.00	-14.63	Average	NEUTRAL

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.

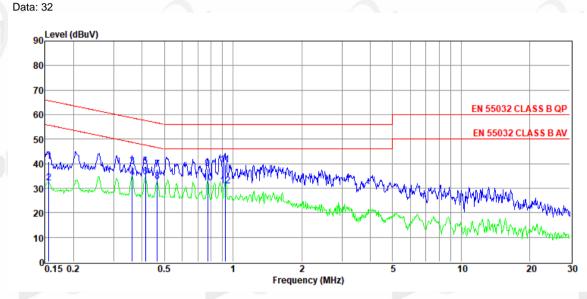
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz-150 kHz), 9 kHz (150 kHz-30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 5# Shield Room	D:\2022 report da	ata\Q22051001-1E\0609 CE.EM6
Test Date	: 2022-06-09	Tested By	: Andy Nie
EUT	: Synergy	Model Number	: Synergy-35
Power Supply	: AC 240V/50Hz	Test Mode	: Charging mode
Condition	: Temp:24.5°C,Humi:55.5%,Press:100.1kPa	LISN	: 2021 2# ENV216/LINE
Memo			



ltem	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)		
1	0.16	21.20	9.43	0.03	10.01	40.67	65.69	-25.02	QP	LINE
2	0.16	12.68	9.43	0.03	10.01	32.15	55.69	-23.54	Average	LINE
3	0.36	19.41	9.41	0.04	10.01	38.87	58.69	-19.82	QP	LINE
4	0.36	14.88	9.41	0.04	10.01	34.34	48.69	-14.35	Average	LINE
5	0.41	19.40	9.36	0.05	10.01	38.82	57.59	-18.77	QP	LINE
6	0.41	15.22	9.36	0.05	10.01	34.64	47.59	-12.95	Average	[©] LINE
7	0.47	18.31	9.32	0.05	10.01	37.69	56.58	-18.89	QP	LINE
8	0.47	13.49	9.32	0.05	10.01	32.87	46.58	-13.71	Average	LINE
9	0.78	18.87	9.23	0.07	10.01	38.18	56.00	-17.82	QP	LINE
10	0.78	12.72	9.23	0.07	10.01	32.03	46.00	-13.97	Average	LINE
11	0.92	20.07	9.28	0.08	10.01	39.44	56.00	-16.56	QP	LINE
12	0.92	11.49	9.28	0.08	10.01	30.86	46.00	-15.14	Average	LINE

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz-150 kHz), 9 kHz (150 kHz-30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

3.7. Test photo





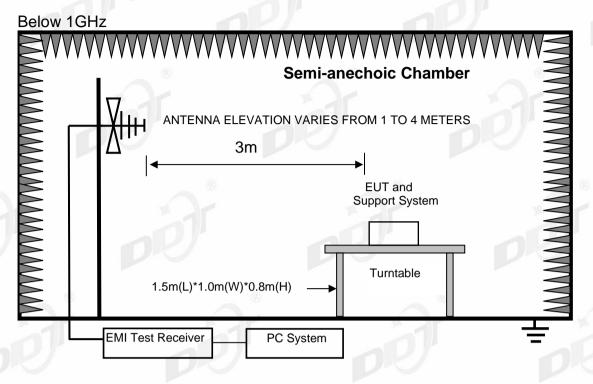
D

4. Radiated Emissions Test

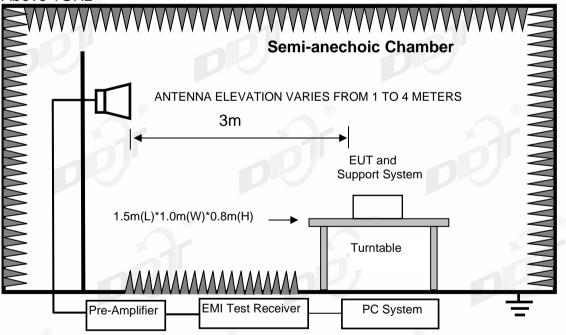
4.1. Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
☑ 1# Radiation chan	nber		•		
EMI Test Receiver	R&S	ESU8	100316	Sep. 02, 2021	1 Year
Spectrum analyzer	Agilent	E4447A			
Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	Nov. 29, 2021	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 19, 2021	1 Year
Double Ridged Horn Antenna	R&S	HF907	100276	Sep. 19, 2021	C
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 06, 2022	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040119	Sep. 09, 2021	1 Year
RF Cable	HUBSER	CP-X2+ CP-X1	W11.03+ W12.02	Sep. 02, 2021	
RF Cable	N/A	5m+6m+1m	06270619	Sep. 02, 2021	1 Year
MI Cable	HUBSER	C10-01-01-1M	1091629	Sep. 02, 2021	
Test software	Audix	E3	V 6.11111b	N/A	N/A
☑ 2# Radiation chan	nber				
EMI Test Receiver	R&S	ESCI	101028	Sep. 02, 2021	1 Year
Spectrum analyzer	Agilent	E4440A	MY46185770	May 18, 2022	
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	9163-994	Sep. 27, 2021	
Trilog Broadband Antenna	Schwarzbeck	VULB 9161	9161-4034	Sep. 19, 2021	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 19, 2021	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120D	9120D-2108	Jul. 17, 2021	1 Year
Pre-amplifier	A.H.	PAM-0118	18040084	Sep. 02, 2021	1 Year
RF Cable	MI Cable	RG214-11	DDT- ZC01497	May 17, 2022	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
□ 3# Radiation chan	nber				
EMI Test Receiver	R&S	ESU26	100472	May 18, 2022	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	May 18, 2022	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 19, 2021	
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Aug. 07, 2021	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120	02108	Jul. 17, 2021	1 Year
Broad Band Horn Antenna	Schwarzbeck 💿	BBHA 9170	790 💿	May 06, 2022	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	Sep. 02, 2021	1 Year
Pre-amplifier	COM-POWER	PAM-840A	461369	Apr. 11, 2022	1 Year
RE Cable	N/A	W23.02 CP1-X2 + W23.09 AP1- X8+1M	4.5M+8M+1 M	Sep. 02, 2021	1 Year
RF Cable	Yuhu Technology	JCTB810-NJ-NJ- 9M	21123964	Jun. 02,2022	1 Year

4.2. Block diagram of test setup









4.3. Limits

Class A

Equipment	Frequency	Field Strengths Limits at 10m measuring distance dB(µV)/m	Field Strengths Limits at 3m measuring distance dB(µV)/m
		ab(µ1)/	α Ξ (μ τ)/ …
	30MHz to 230MHz	40	50
Class A	230MHz to 1000MHz	47	57
Equipment	1GHz to 3GHz		Average:56 ; Peak:76
	3GHz to 6GHz		Average:60 ; Peak:80

Class B

		Field Strengths Limits at	Field Strengths Limits at 3m
Equipment	Frequency	10m measuring distance	measuring distance
		dB(µV)/m	dB(µV)/m
	30MHz to 230MHz	30	40
Class B	230MHz to 1000MHz	37	47
Equipment	1GHz to 3GHz		Average:50 ; Peak:70
	3GHz to 6GHz		Average:54 ; Peak:74
	30MHz to 1000MHz	Fundamental 50	Fundamental 60
FM	30MHz to 300MHz	Harmonics 42	Harmonics 52
receivers*	300MHz to 1000MHz	Harmonics 46	Harmonics 56

*: these relaxed limits apply only to emission at the fundamental and harmonic frequencies of the local oscillator signals at all other frequencies shall be compliant with the limits of class B equipment given above.

Note: (1) The smaller limit shall apply at the cross point between two frequency bands.

(2) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80 cm above the ground plane inside an semi-anechoic chamber.
- (2) Test antenna center was located 3m or 10m from the EUT and assistant equipment boundary (imaginary circular periphery) on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to EN 55032 on radiated emission test.
- (3) Spectrum frequency from 30 MHz to \Box 1 GHz/ \boxtimes 6 GHz was investigated.
- (4) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission.Measurements in both horizontal and vertical polarities were made and the data was

recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to EN 55032 on Radiated Emission test.

- (5) For emissions from 30 MHz to 1 GHz, Quasi-Peak values were measured with EMI Receiver and the bandwidth of Receiver is 120 kHz.
- (6) For emissions above 1 GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz VBW is set at 3 MHz

4.5. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Adapter	SAMSUNG	EP-TA200	N/A	INPUT: AC 100V- 240V,50/60Hz, 0.5A Output: 5V/2A
Charging cable	N/A	N/A	N/A	N/A

4.6. Test result

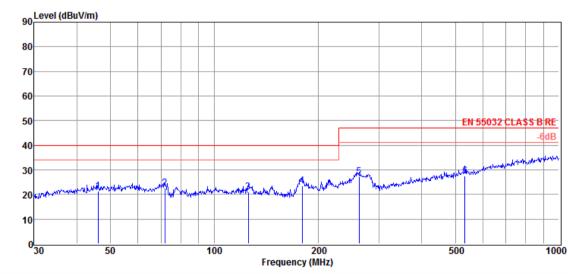
PASS. (See below detailed test result)

Note 1: All emissions not reported below are too low against the prescribed limits.



Radiated Emission test (30 MHz - 1 GHz) **TR-4-E-009 Radiated Emission Test Result**

Test Site	: DDT 3m Chamber 2#	D:\2022 RE2# Repo	ort Data\Q22051001-1E\0628 RE.EM6
Test Date	: 2022-06-28	Tested By	: Vic Xie
EUT	: Synergy	Model Number	: Synergy-35
Power Supply	/ : AC 240V/50Hz	Test Mode	: Charging mode
Condition	: Temp:24.5 °C,Humi:55%,Press:100.1kPa	Antenna/Distance	: 2021 VULB 9163 #2/3m/HORIZONTAL
Memo	-		



Data: 23

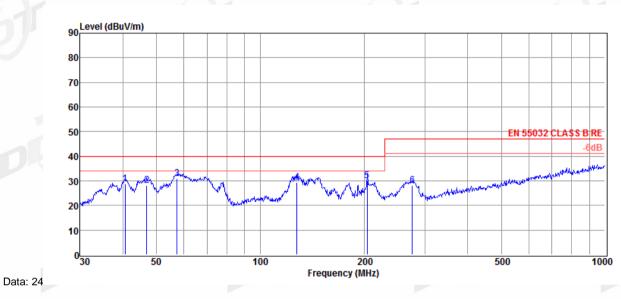
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	46.02	3.54	14.10	3.69	21.33	40.00	-18.67	QP	HORIZONTAL
2	71.83	9.28	9.45	3.94	22.67	40.00	-17.33	QP	HORIZONTAL
3	125.45	6.40	10.46	4.27	21.13	40.00	-18.87	QP	HORIZONTAL
4	180.02	9.36	9.70	4.53	23.59	40.00	-16.41	QP	HORIZONTAL
_5 (8	262.90	9.46	12.70	4.92	27.08	@47.00	-19.92	QP	HORIZONTAL
6	533.83	3.13	18.15	6.14	27.42	47.00	-19.58	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 2#	D:\2022 RE2# Re	port Data\Q22051001-1E\0628 RE.EM6	
Test Date	: 2022-06-28	Tested By	: Vic Xie	
EUT	: Synergy	Model Number	: Synergy-35	
Power Su	pply : AC 240V/50Hz	Test Mode	: Charging mode	
Condition	: Temp:24.5 °C,Humi:55%,Press:100.1kPa	Antenna/Distanc	e:2021 VULB 9163 #2/3m/VERTICAL	

Memo



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	40.56	11.86	13.41	3.58	28.85	40.00	-11.15	QP	VERTICAL
2	46.83	10.29	14.10	3.71	28.10	40.00	-11.90	QP	VERTICAL
3	57.39	13.93	13.16	3.83	30.92	40.00	-9.08	QP	VERTICAL
4	127.66	14.84	10.23	4.28	29.35	40.00	-10.65	QP	VERTICAL
5	204.24	14.26	11.12	4.64	30.02	40.00	-9.98	QP	VERTICAL
6 (8	276.12	10.39	12.90	4.98	28.27	47.00	-18.73	QP	© VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Dongguan Dongdian Testing Service Co., Ltd.

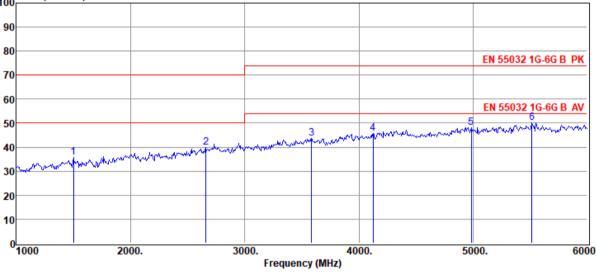
Radiated Emission test (1 GHz - 6 GHz) TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2022 RE 1# Rep	ort data\Q22051001-1E\RE-H.EM6
Test Date	: 2022-06-09	Tested By	: Youbin
EUT	: Synergy	Model Number	: Synergy-35
Power Supply	: AC 240V/50Hz	Test Mode	: Charging mode
Condition	: TEMP:23.7°C, RH:56.3%, BP:101.4kPa	Antenna/Distance	: 2021 HF907/3m/HORIZONTAL

Memo

Data: 23

100 Level (dBuV/m)



Item (Mark)	Freq.	Read Level	Antenna Factor	PRM Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Wark)	(IVI⊓Z)	(dBµV)	(dB/m)	dB	dB	(dBµV/m)	(dBµV/m)	(dB)		24
1	1500.00	47.62	26.00	41.16	3.18	35.64	70.00	-34.36	Peak	HORIZONTAL
2	2660.00	48.59	29.52	42.61	4.21	39.71	70.00	-30.29	Peak	HORIZONTAL
3	3585.00	50.33	31.76	43.37	5.05	43.77	74.00	-30.23	Peak	HORIZONTAL
4	4125.00	50.88	32.90	43.54	5.48	45.72	74.00	-28.28	Peak	HORIZONTAL
5	4985.00	51.13	34.17	43.21	6.04	48.13	74.00	-25.87	Peak	HORIZONTAL
6	5515.00	52.17	34.50	42.82	6.43	50.28	74.00	-23.72	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

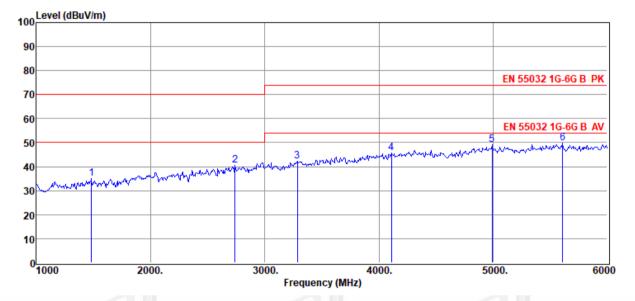
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2022 RE 1# Repo	ort data\Q22051001-1E\RE-H.EM6
Test Date	: 2022-06-09	Tested By	: Youbin
EUT	: Synergy	Model Number	: Synergy-35
Power Supply	: AC 240V/50Hz	Test Mode	: Charging mode
Condition	: TEMP:23.7°C, RH:56.3%, BP:101.4kPa	Antenna/Distance	: 2021 HF907/3m/VERTICAL

Memo

Data: 24



Item (Mark)	Freq.	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
(Mark) 1	1485.00	46.80	26.06	41.14	3.17	34.89	70.00	-35.11	Peak	VERTICAL
2	2740.00	49.48	29.60	42.71	4.29	40.66	70.00	-29.34	Peak	VERTICAL
3	3285.00	48.76	31.74	43.19	4.80	42.11	74.00	-31.89	Peak	VERTICAL
4	4110.00	50.87	32.84	43.55	5.47	45.63	74.00	-28.37	Peak	VERTICAL
5	4990.00	52.00	34.18	43.20	6.04	49.02	74.00	-24.98	Peak	VERTICAL
6	5610.00	51.78	34.38	42.76	6.50	49.90	74.00	-24.10	Peak	VERTICAL

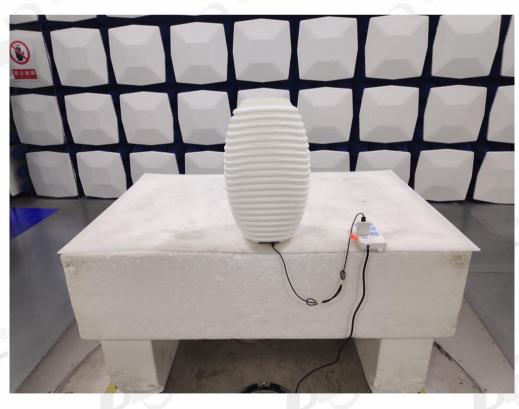
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

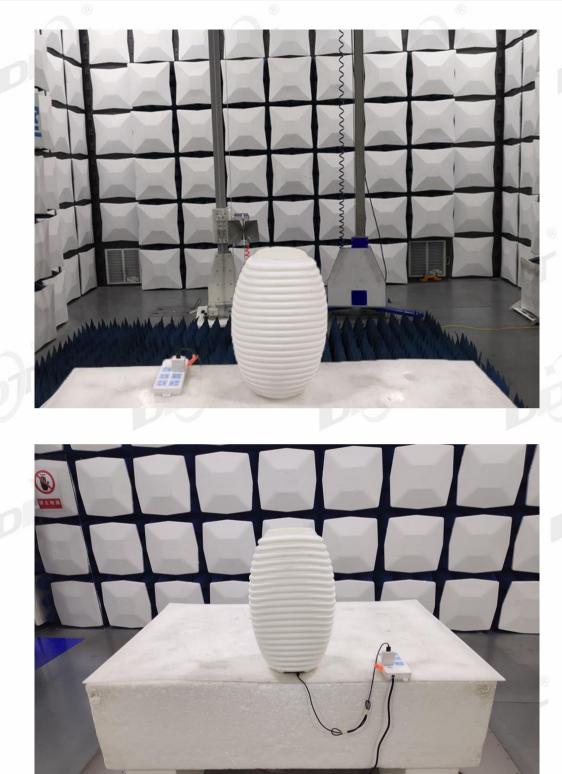
4.7. Test photo







Report No.: DDT-R22051001-1E02





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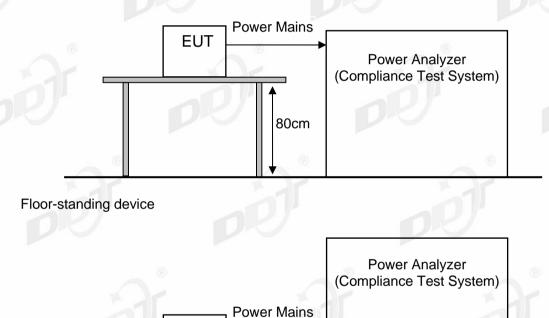
5. Harmonic Current and Voltage Fluctuations& Flicker Test Report

5.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
HARMONICS and Voltage fluctuation and flicker tester	EMC-PARTNER	HAR1000-1P	HAP1000- 1P230V-0205	Jul. 06, 2021	1Year
Test Software	EMC-PARTNER	Harmonics-1000	4.19	N/A	N/A

5.2. Block diagram of test setup

Table-top device



5.3. Harmonic current limits

EUT

Classification of equipment: ⊠Class A: audio equipment. □Class D: equipment having a specified power less than or equal to 600 W, of the following types: personal computers and personal computer monitors; television receivers.

□ 10cm

For Class A equipment	For	Class A	A equi	pment
-----------------------	-----	---------	--------	-------

Class A equipment	
Harmonic order(n)	Maximum permissible harmonic current (A)
	Odd harmonics
3	2.30
® 5	® 1.14 ®
7	0.77
9	0.40

0.33			
0.21			
0.15*15/n			
rmonics			
1.08			
0.43			
0.30			
0.23*8/n			
r			

For Class D equipment

Clabo D oquipinion					
Harmonic order(n)	Maximum permissible harmonic	Maximum permissible			
	current per watt (mA/W)	harmonic current (A)			
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≤n≤39 (odd harmonic only)	© 3.85/n	© 0.21*13/n			
	Harmonic order(n) 3 5 7 9 11 13≤n≤39	Harmonic order(n)Maximum permissible harmonic current per watt (mA/W)33.451.971.090.5110.3513≤n≤393.85/p			

5.4. Voltage fluctuations & flicker Limit

Test Item	Limit	Note				
Pst 🛞	1.0 Pst means Short-term flicker indicator					
Plt	Plt 0.65 Plt means long-term flicker indica					
Tdt	0.5	Tdt means maximum time that dt exceeds 3.3%				
dmax(%)	dmax(%) 4% dmax means maximum relative vo					
dc(%)	3.3%	dc means relative steady-state voltage change.				

5.5. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
CD	N/A	N/A	N/A	N/A
U-disk	N/A	N/A	N/A	N/A
Mobile phone	HUAWEI	HMA-AL00	66J5T19906024106	N/A
Vector Signal Generator	R&S	SMBV100A	1407.6004K02- 256455-fr	N/A
AUX in cable	N/A	N/A	N/A	Length:1.50 m, unshielded

5.6. Test procedure

For Harmonic current test:

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. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the necessary for the EUT to be exercised.

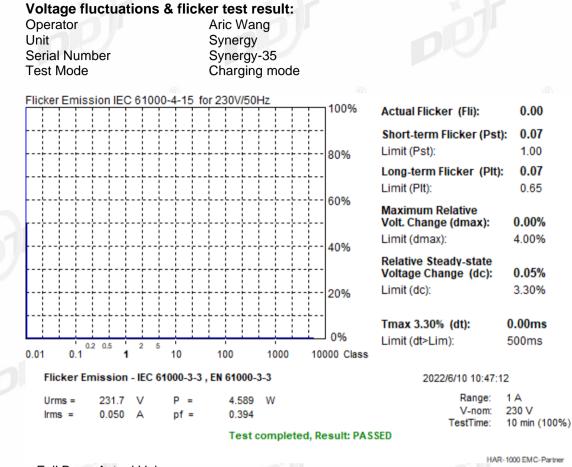
For Voltage fluctuations & flicker

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 conditions during the flick measurement; the measure time shall include that part of whole operation changes. The observation period for short-term flicker indicator is 10 minutes and the observation period for long-term flicker indicator is 2 hours.

5.7. Test result

Harmonic current test result: N/A: Not applicable

Note: According to IEC 61000-3-2 Clause 7, this product belongs to exceptions of Clause 7 or Annex C. limits are not specified in this standard.



Full Bar : Actual Values Empty Bar : Maximum Values Circles : Average Values Blue : Current , Green : Voltage , Red : Failed Measurement

Ambient Condition: 24.5°C, 46.9%RH, 101.4kPa Date : 2022/6/10 10:47:12 V6.1

Urms =	231.7V	Freq =	50.013	Range:	1 A
Irms =	0.050A	lpk =	0.272A	cf =	5.417
P =	4.589W	S =	11.65VA	pf =	0.394

Test - Time : 1 x 10min = 10min (100 %)

LIN (Line Impedance Network) :

L: 0.240hm +j0.150hm N: 0.160hm +j0.100hm

Limits : Plt : 0.65 Pst : 1.00 dmax : 4.00 % dc : 3.30 % dtLim: 3.30 % dt>Lim: 500ms

Test completed, Result: PASSED

dmax [%] 0.000

5.8. Test photo





















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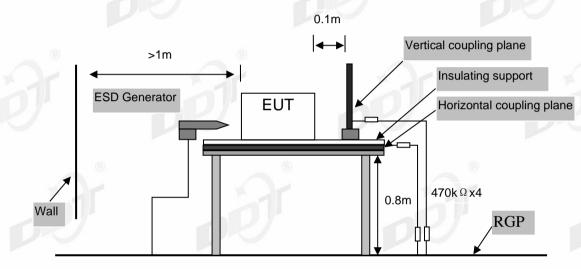
6. Electrostatic Discharge Test Report

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
□ ESD Generator	TESEQ	NSG 437	981	Sep. 02, 2021	1 Year
ESD Generator	TESEQ	NSG438	1127	Jul. 17, 2021	1 Year
□ ESD Generator	Noiseken	ESS-2002	ESS0432669	May 16, 2022	1 Year
	TESEQ	NSG 437	1635	May 16, 2022	1 Year

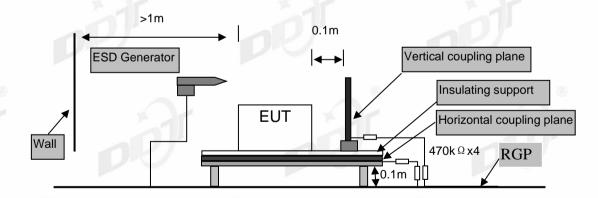
6.1. Test equipment

6.2. Block diagram of test setup

Table-top equipment



Floor-standing equipment



6.3. Test levels and performance criterion

r i	Performance Criteria							
Air Discharge	B							
Contact Discharge	±4kV	в						
	Performance criteria B description: During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test. Afte							

However, no change of operating state or stored data is allowed to persist after the test. 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.

6.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other			
Adapter	SAMSUNG	EP-TA200	N/A	INPUT: AC 100V- 240V,50/60Hz, 0.5A Output: 5V/2A			
Charging cable	N/A	N/A	N/A	N/A			

6.5. Test procedure

Air Discharge:

The test was applied on non-conductive surfaces of EUT. The round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT. After each discharge, the discharge electrode was removed from the EUT. The generator was re-triggered for a new single discharge and repeated 20 times for each pre-selected test point. This procedure was repeated until all the air discharge completed.

Contact Discharge:

All the procedure was same as air discharge. Except that the generator was re-triggered for a new single discharge. The tip of the discharge electrode was touching the EUT before the discharge switch was operated.

Indirect discharge for horizontal coupling plane:

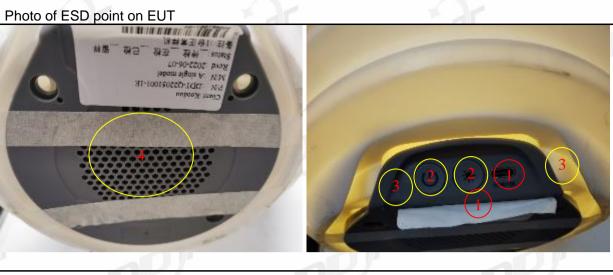
At least 20 single discharges were applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

Indirect discharge for vertical coupling plane:

At least 20 single discharges were applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, was placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges were applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

6.6. Test result

Test Site: DD	T ⊠1# ⊡2# E	lectros	tatic Discharge	Room				
Ambient Cond	dition: 24.3	℃,	<u>50.0</u> %RH	l, <u>101.4</u>	k ki	Pa		
Test Power s	upply: ⊠AC 2	30V/50)Hz, ⊟Battery □	⊐DC:			(R)	
According Sta	andard: 🛛 EN 🤅	61000-	-4-2, ⊠EN 5503	35, □othe	r:		~	
Test Times: 2	20 times at eac	ch poir	nt for contact dis	scharge; 2	20 time	es at ea	ch point for a	ir discharge.
⊠1 □5 □10	seconds inter	val for	each discharge	э.				_
Operation	Type of diad	orao	Test Level	Test Poi	nt	Perfo	ormance	Result
Mode	Type of discl	large	Test Level	Test Poil	Re	quired	Observation	(Pass/Fail)
B	Contact to	EUT	±4kV	/	C	В	A	Pass
Charging	Contact t Coupling Pla		±4kV	Coupling Planes	3	В	A	Pass
mode	Air		±2kV, ±4kV, and ±8kV	1,2,3,4		В	A	Pass
Test Point:				•				
No. De	escription	No.	Descript	ion	No.		Descriptio	n
	SB-C port	4	Gap			B	/	
2 Key 5					1	/	X	
3	3 LED 6				1		/	
Observation A: Operation a		oss of	function during	test and a	after te	est.		JE JE
Ų	r: Bote Huang			eview By:				
Test Date: Ju	n. 22, 2022		© D	ate: Jun. 2	22, 20	22		



6.7. Test photo

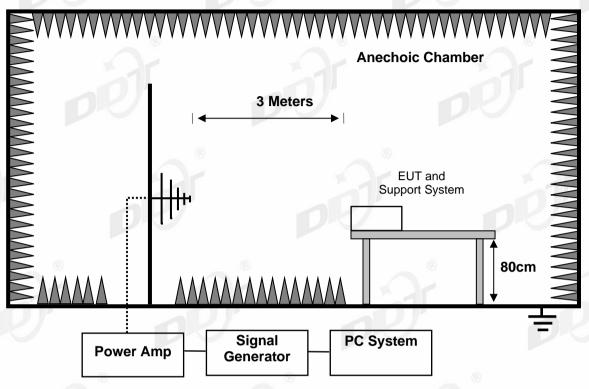


7. Continuous Radio Frequency Disturbances

7.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Log-periodic antenna	AR	ATL80M1G	0332625	May 28, 2022	1 Year
Log-periodic antenna	Schwarzbeck	STLP 9149	587	Sep. 23, 2021	1 Year
Field strength probe	РММ	EP-601	611WX80209	Sep. 28, 2021	1 Year
MXU Vector Generator	Agilent	N5182A	MY47420276	Sep. 02, 2021	1 Year
Powermeter	Agilent 💿	E4417A	MY45100568	Oct. 10, 2021	1 Year
Powersensor	Agilent	E9323	MY44420907	Sep. 23, 2021	1 Year
Powersensor	Agilent	E9323	US40410405	Sep. 23, 2021	1 Year
Amplifier	Wonder	HPA80M1000M50 0	001	Jul. 06, 2021	1 Year
Amplifier	Wonder	HPA1000M2500M 300	002	Jul. 06, 2021	1 Year
Amplifier	Wonder	HPA2500M6000M 200	003	Jul. 06, 2021	1 Year
Accessory Equipmen	t used for test				
Audio Analyzer	R&S	UPL16	100167	May 16, 2022	1 Year
Audio Analyzer	R&S	UPV	101570	Sep. 07, 2021	1 Year
MXG Vector Generator	Agilent	N5182A	MY47420276	Sep. 02, 2021	1 Year
EXG Vector Signal Generator	Agilent	N5172B	MY53050018	Sep. 02, 2021	1 Year
Digital Video test software	Keysight	N7623B	Version 8.0.0.1	N/A	N/A
Microphone	Supwerlux	ECM888B	E888B5A029 8	N/A	N/A
Artificial Ear	AIHUA	Type0213	2018022701	N/A	N/A
Artificial Ear	AIHUA	Type0212	2017102603	N/A	N/A
Note: N/A means not	applicable.	101			

7.2. Block diagram of test setup



7.3. Test levels and performance criterion

	Swept frequency test			
Frequency (MHz)	80 to 1000			
Field Strength	3V/m rms voltage level of the unmodulated signal			
Modulation	AM modulated to a depth of 80% by a sine wave of $\boxtimes 1 \text{ kHz}$, $\square 400 \text{ Hz}$ (note 1)	A		
Step Size	1% increments			
Dwell time	≤5 Sec®	0		

	Spot frequency test	Performance Criteria
Frequency (MHz)	1800, 2600, 3500, 5000	
Field Strength	3V/m rms voltage level of the unmodulated signal	
Modulation	AM modulated to a depth of 80% by a	Α
Modulation	sine wave of ⊠1 kHz, □400 Hz (note 1)	
Dwell time	≤5 Sec.	

Note 1: The 1 kHz modulation may be replaced by a different audio modulation frequency more appropriate for a given EUT if, for example, 1 kHz is not within the operating audio range of the EUT.

Performance criteria A description for devices with the audio output function: The measured acoustic interference ratio and/or the measured electrical interference ratio during the test shall be -20 dB or better.

For equipment with audio output function:

□The acoustic measurement method was selected according to clause G6.4.1 of EN 55035. □The electrical measurement method was selected according to clause G6.4.2 of EN 55035. Performance criteria A for devices with the telephony function.

Eroquoney rango	Acoustic or	Equivalent direct measurement			
Frequency range MHz	electrical interference ratio	dB(SPL)	Digital dBm0	Analogue dBm0	
80 to 1000	-0 dB	75	-30	-30	

Note: At the step in the frequency range, the lower limit shall be applied. The interference ratio (electrical or acoustic) shall meet the limits in column 2; or, The acoustic level of the demodulated audio shall be less than the limits in column 3; or The digitally coded level of demodulated audio shall be less than limits in column 4; or, The analogue level of the demodulated audio shall be less than the limits in column 5.

Performance criteria A description for other devices: 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.

7.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Adapter	SAMSUNG	EP-TA200	N/A	INPUT: AC 100V- 240V,50/60Hz, 0.5A Output: 5V/2A
Charging cable	N/A	N/A	N/A	N/A

7.5. Test Procedure

The field sensor is placed on the EUT table (0.8 meter above the ground) which is 3 meters away from the transmitting antenna. Through the signal generator, power amplifier and transmitting antenna to produce a uniformity field strength (3V/m measured by field sensor) around the EUT table from frequency range specified and records the signal generator's output level at the same time for whole measured frequency range. Then, put EUT and its simulators on the EUT turn table and keep them 3 meters away from the transmitting antenna which is mounted on an antenna tower and fixes at 1 meter height above the ground. Using the recorded signal generator's output level to measure the EUT from frequency range specified and both horizontal & vertical polarization of antenna must be set and measured. Each of the four sides of EUT must be faced this transmitting antenna and measures individually.

7.6. Test result

Ambient Condition: <u>21.3</u> °C, <u>62.5</u> %RH, <u>101.4</u> kPa

Test Power supply: $\boxtimes AC 230V/50Hz$, $\square Battery \square DC$:

According Standard: ⊠EN 61000-4-3, ⊠EN 55035, □other:

Field Strength: \boxtimes 3V/m \square 10V/m \square Other: Dwell time: \boxtimes 1s \square other:

Frequency Range: ⊠80 MHz---1 GHz; ⊠1800 MHz, 2600 MHz, 3500 MHz, 5000 MHz □other:

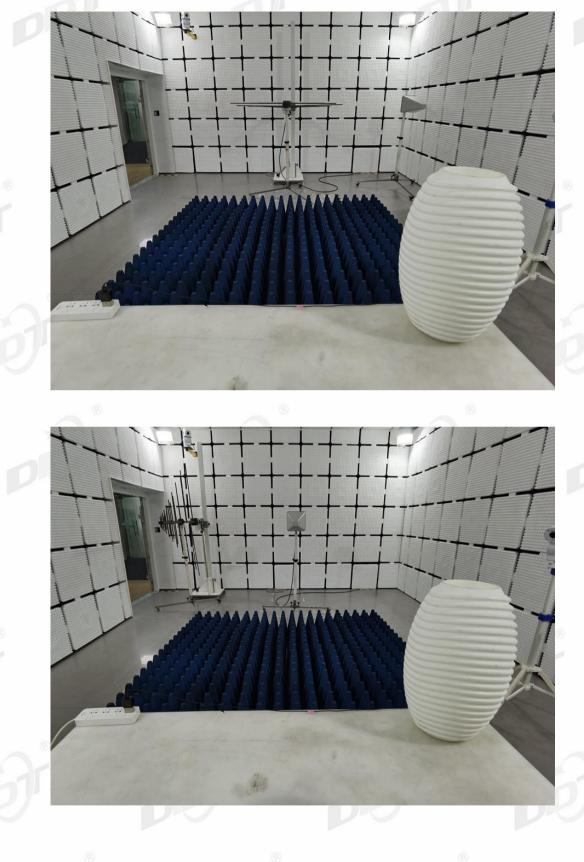
Modulation: □None ⊠AM ⊠1 kHz □400 Hz Modulation depth: ⊠80% □other:

Operation	EUT Position	Antenna: Horizontal		Antenna: Vertical		Result
Mode	towards antenna	Required	Observation	Required	Observation	(Pass/Fail)
	Front	А	А	А	А	Pass
Charreir and a	Right	A	А	A	А	Pass
Charging mode	Rear	Α	А	A	А	Pass
	Left	Α	А	A	А	Pass
Test Engineer: Aric Wang Test Date: Jun. 16, 2022		Review By: Eddie Liu Date: Jun. 16, 2022			oV.	

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Report No.: DDT-R22051001-1E02

7.7. Test photo



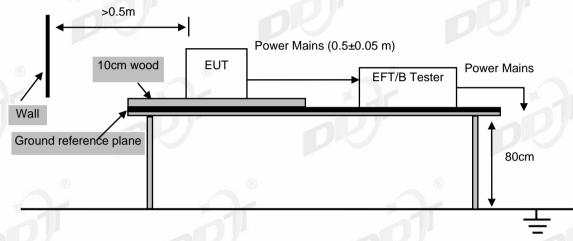
8. Electrical Fast Transients (EFT) Test Report

8.1. Test equipment

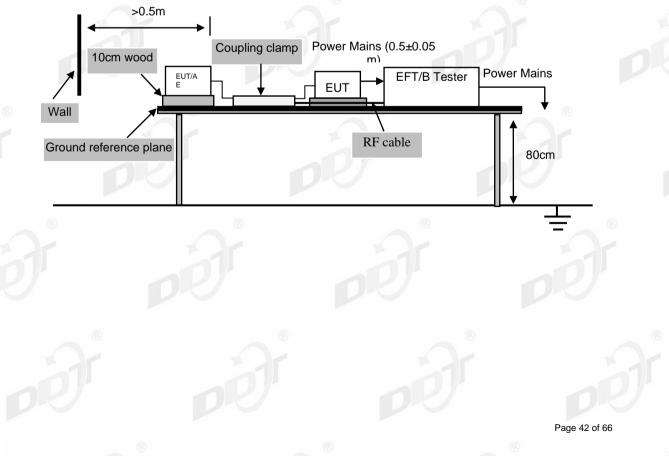
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EFT Generator	EMC PARTNER	TRA3000F	TRA3000F-1502	May 16, 2022	1 Year
Coupling Clamp EFT	EMC PARTNER	CN- EFT1000	103648	May 20, 2022	1 Year

8.2. Block diagram of test setup

For power port (Note: if the DC network power cable may be lengths greater than 3 m, the requirement is applicable).



For analogue/digital data ports, if the cables may be longer than 3 m.



8.3. Test levels and performance criterion

	Test Level					
Test voltage	$\pm 1 \text{ kV}$ for AC mains port	± 0.5 kV for dc input or signal port				
Repetition Frequency	5 kHz	5 kHz				
Burst Duration	15ms	15ms				
Burst Period	300ms	300ms	В			
Inject Time(s)	120s	120s				
Inject Method	Direct for AC mains port	Capacitive coupling clamp or CDN				
Inject Line	AC mains	Analogue/digital data ports, and DC network power ports				

Note: This test shall be additionally performed on analogue/digital data ports, and DC network power ports, of radio equipment and associated ancillary equipment, if the cables may be longer than 3 m.

Performance criteria B description: During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test. 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.

8.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Adapter	SAMSUNG	EP-TA200	⊚ N/A	INPUT: AC 100V- 240V,50/60Hz, 0.5A Output: 5V/2A
Charging cable	N/A	N/A	N/A	N/A

8.5. Test procedure

The EUT and its simulators were placed on the ground reference plane and were insulated from it by a wood support $0.1m \pm 0.01m$ thick. The ground reference plane was $1m^*1m$ metallic sheet with 0.65mm minimum thickness. This reference ground plane was project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane was more than 0.5m. All cables to the EUT was placed on the wood support, cables not subject to EFT/B was routed as far as possible from the cable under test to minimize the coupling between the cables.

For DC input and AC power ports:

The EUT was connected to the power mains by using a coupling device that couples the EFT interference signal to AC or DC power lines. Both positive transients and negative transients of test voltage were applied during compliance test and the duration of the test can't less than 2mins.

For analogue/digital data ports:

The capacitive coupling clamp was connected to the power by using a coupling device that couples the EFT interference signal to capacitive coupling clamp. Both positive transients and

negative transients of test voltage were applied during compliance test and the duration of the test can't less than 2mins.

8.6. Test result

Test Site: DDT 7# Shield Room								
Ambient Condition	n: <u>22.5</u> ℃,	<u>55.3</u> %RH	, <u>101.4</u>	_kPa				
TestPower supply:⊠AC 230V/50Hz, □Battery□DC:								
According Standa	According Standard:⊠EN 61000-4-4,⊠EN 55035,⊡other:							
Port:⊠AC Mains	DC Supply	□Signal: Bur	st Period	:⊠300ms⊟Oth	er:			
Coupling:⊠Direct □Capacitive Clamp Test Time: ⊠120s□Other:								
Repetition Frequency: ⊠5kHz □100kHz Burst Duration: ⊠15ms□Other:								
Operation Mode	Ling/port		Performance			Result		
	Line/port	Test Voltage	Required	Observation(+)	Observation(-)	(Pass/Fail)		
	L	1 kV	В	А	A	Pass		
Charging mode	N	1 kV	В	A 💿	А	Pass		
	L-N	1 kV	В	А	А	Pass		
Observation Desc		1	_					
A: Operation as in		of function du	- V			AUT.		
Test Engineer: Elos				By: Eddie Liu				
Test Date: Jun. 13,	2022		Date: Jui	า. 13, 2022				

8.7. Test photo

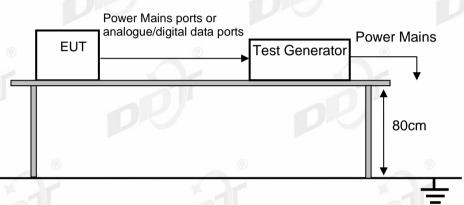


9. Surges test report

9.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Surge Generator	EMC PARTNER	TRANSIENT20 00	MIG0603IN2 S-T-1504	May 16, 2022	1 Year
Coupling/Decoupling Network for communication port	EMC PARTNER	CDN-UTP8 ED3	1557	Sep. 02, 2021	1 Year
Coupling/Decoupling Network for signal port	EMC PARTNER	CDN-KIT1000	CDN-KIT1 000-1510	May 20, 2022	1 Year

9.2. Block diagram of test setup



9.3. Test levels and performance criterion

	Test level for AC mains ports	Performance Criterion						
Line to Line	Line to Line 1 kV 1.2/50(8/20) µs							
Line to Ground	Line to Ground 2 kV 1.2/50(8/20) µs							
Analogue/digita	al data port, Port type: unshielded symmetrical	Performance Criterion						
Line to Ground	1 kV and 4 kV 10/700(5/320) μs (used with the primary protection)	C O						
Line to Ground	С							
Note: Applicable only lengths greater than 3	to ports which, according to the manufacturer's spe 3m.	ecification, the cable						
Analogue/dig	ital data port, Port type: coaxial or shielded	Performance Criterion						
Shield to ground	0.5 kV 1.2/50(8/20) μs	В						
Note: Applicable only lengths greater than a	to ports which, according to the manufacturer's spe 3m.	cification, the cable						
	DC network power port Performance Criterion							
Line to reference ground	0.5 kV 1.2/50(8/20) μs	В						

Note: Applicable only to ports which, according to the manufacturer's specification,1. The cable lengths greater than 3m; 2. May connect directly to outdoor cables.

Performance criteria B description: During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test. 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.

9.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Adapter	SAMSUNG	EP-TA200	N/A	INPUT: AC 100V- 240V,50/60Hz, 0.5A Output: 5V/2A
Charging cable	N/A	N/A	N/A	N/A

9.5. Test procedure

For line-to-neutral coupling mode, provide a 0.5 kV/1 kV 1.2/50 us voltage surge (at open-circuit condition) and 8/20 us current surge to EUT selected points.

For line-to-ground coupling mode, provide a 0.5 kV/1 kV/2 kV 1.2/50 us voltage surge (at opencircuit condition) and 8/20 us current surge to EUT selected points.

- The number of pulses applied shall be as follows:
- Five positive pulses line-to-neutral at 90° phase
- Five negative pulses line-to-neutral at 270° phase

The following additional pulses are required only if the EUT has an earth connection or if the EUT is earthed via any AE.

- · Five positive pulses line-to-earth at 90° phase
- Five negative pulses line-to-earth at 270° phase
- Five negative pulses neutral-to-earth at 90° phase
- Five positive pulses neutral-to-earth at 270° phase

Maximum 1/min repetition rate are applied during test.

Different phase angles are done individually.

For telecommunication surge test, each line of internet port to ground coupling mode, provide a 1.0 kV 10/700 us voltage surge (at open-circuit condition) and 5/320us current surge to EUT selected points.

At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are applied during test.

Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

9.6. Test result

Test Site: DDT Surges Room

Ambient Condition: <u>22.3</u> °C, <u>43.2</u> %RH, <u>101.4</u> kPa

Test Power supply: ⊠AC 230V/50Hz, □Battery □DC:

According Standard: ⊠EN 61000-4-5, ⊠EN 55035, □other:

Line : ⊠AC Mains □DC Supply □Signal

Wave Type: ⊠1.2/50us-8/20us □10/700 us-5/320us

Pluse times: \boxtimes Five positive pluses at 90°phase, five negitive pluses at 270°phase.

 \Box Five positive pluses and five negitive pluses at 0°, 90°, 180°, 270°.

 \Box Five positive pluses and five negitive pluses.

Pulse Interval: 60 s

i dibe intervali be	-										
Operation Mode	ne	C).5 kV		1 kV			2	kV	2	Result
	Line/Port	Performance	се	Performance		Performance					
		Requir ed	® +	-	Requir ed	+	8	Requir ed	+	-	(Pass/Fail)
Charging mode	L-N	В	А	Α	В	A	А	/	/	1	Pass
Observation Desc	Observation Description: A: Operation as intend, no loss of function during test and after test.									test.	
Test Engineer: Elos Test Date: Jun. 13,					ew By: Eo Jun. 13,		J				

9.7. Test photo



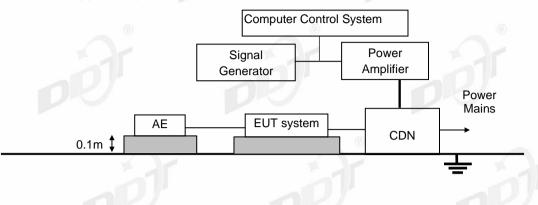
10. Continuous Conducted Disturbances

10.1. Test equipment

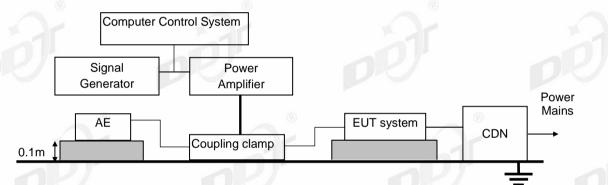
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
Conducted Immunity Tester	FRANKONIA	CIT-10	126B1207	May 17, 2022	1Year
CDN	FRANKONIA	CDNT8	A6100017/2 012	Sep. 02, 2021	1Year
CDN	SCHWARZBECK	CDN M2+M3PE 16A	00058	Sep. 02, 2021	1Year
CDN	SHANGHAI LIONCEL	CDN M3-32	191001	Sep. 02, 2021	1Year
CDN	SHANGHAI LIONCEL	CDN M3-L-100	0200801J	Sep. 02, 2021	1Year
EM Clamp	FRANKONIA	EMCL	132A1143/2 012	Sep. 02, 2021	1Year
Attenuation	BIRD	DAM75W (6dB)	1143	Sep. 02, 2021	1Year
Test Software	SKET	EMC-S	V1.4.0.0	N/A	N/A
Test Software	Franconia	EN61000-4-6	1.1.2.0	N/A	N/A
Conducted Immunity Tester	FRANKONIA	CIT-10	126B1207	May 17, 2022	1Year
CDN	FRANKONIA	CDNT8	A6100017/2 012	Sep. 02, 2021	1Year
Accessory Equipmen	nt used for test	(6)		0	
Audio Analyzer	R&S 🚿	UPL16	100167	May 16, 2022	1 Year
Audio Analyzer	R&S	UPV	101570	Sep. 02, 2021	1 Year
MXG Vector Generator	Agilent	N5182A	MY4742027 6	Sep. 02, 2021	1 Year
EXG Vector Signal Generator	Agilent	N5172B	MY5305001 8	Sep. 02, 2021	1 Year
Digital Video test software	Keysight	N7623B	Version 8.0.0.1	N/A	N/A
Microphone	Supwerlux	ECM888B	E888B5A02 98	N/A	N/A
Artificial Ear	AIHUA	Type0213	2018022701	N/A	N/A
Artificial Ear	AIHUA	Type0212	2017102603	N/A	N/A
Note: N/A means not	applicable.				

10.2. Block diagram of test setup

For power port (Note: if the DC network power cable may be lengths greater than 3 m, the requirement is applicable).



For analogue/digital data ports, if the cables may be longer than 3 m.



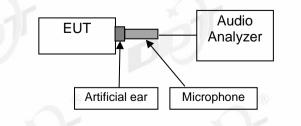
For audio output function (electrical measurement, direct connection to EUT)



For audio output function (acoustic measurement)



For audio output function (on-ear acoustic measurement)



10.3. Test levels and performance criterion

	Test Level	Performance Criteria
	0.15 MHz to 10 MHz, 3V rms voltage level of the unmodulated signal	9
Frequency and Field Strength	10 MHz to 30 MHz, 3V to 1V rms voltage level of the unmodulated signal)r
	30 MHz to 80 MHz, 1V rms voltage level of the unmodulated signal	А
Modulation	AM modulated to a depth of 80% by a sine wave of $\boxtimes 1 \text{ kHz}$, $\Box 400 \text{ Hz}$ (note 1)	
Step Size	1% increments	C
Dwell time	≤5 Sec.	

Note 1: The 1 kHz modulation may be replaced by a different audio modulation frequency more appropriate for a given EUT if, for example, 1 kHz is not within the operating audio range of the EUT.

Note 2: This test shall be additionally performed on analogue/digital data ports, DC network power ports of equipment, if the cables may be longer than 3 m.

Performance criteria A description for devices with the audio output function: The measured acoustic interference ratio and/or the measured electrical interference ratio during the test shall be -20 dB or better.

 \Box The acoustic measurement method was selected according to clause G6.4.1 of EN 55035. \Box The electrical measurement method was selected according to clause G6.4.2 of EN 55035.

Performance criteria A for devices with the telephony function.

Frequency range	Acoustic or electrical	Equivalent direct measurement				
MHz	MHz interference ratio		Digital dBm0	Analogue dBm0		
0.15 to 30	-20 dB	55	-50	-50		
30 to 80	30 to 80 -10 dB		-40	-40		

Note: At the step in the frequency range, the lower limit shall be applied. The interference ratio (electrical or acoustic) shall meet the limits in column 2; or, The acoustic level of the demodulated audio shall be less than the limits in column 3; or The digitally coded level of demodulated audio shall be less than limits in column 4; or, The analogue level of the demodulated audio shall be less than the limits in column 5.

Performance criteria A description for other devices: 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.

10.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Adapter	Adapter SAMSUNG		N/A	INPUT: AC 100V- 240V,50/60Hz, 0.5A Output: 5V/2A
Charging cable	N/A	N/A	N/A	N/A

10.5. Test procedure

The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).

The disturbance signal described below is injected to EUT through CDN.

The EUT operates within its operational mode(s) under intended climatic conditions after power on. The frequency range is swept from 0.15 MHz to 80 MHz, the interference signal level according to standard, and with the disturbance signal 80% amplitude modulated with a $\boxtimes 1 \text{ kHz}/\Box 400 \text{ Hz}$ sine wave.

The step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.

Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

10.6. Test result

Test Site: DDT C	Test Site: DDT Continuous Conducted Disturbances Room								
Adapter: K25A12	Adapter: K25A120150G								
Ambient Condition: <u>23.1</u> ℃, <u>57.5</u> %RH, <u>101.4</u> kPa									
Test Power supp	ly: ⊠AC 230V/50Hz	, □Battery	DC:						
According Stand	ard: ⊠EN 61000-4-6	6, ⊠EN 550	035, □other:						
	Modulation Signal: ⊠1 kHz □400 Hz 80% AM □Other: Steps: ⊠1% □other: Dwell time: ⊠1s □other:								
Operation mode	Operation mode Frequency Range		Strength(e.m.f) (unmodulated)	Required	Observation	Result (Pass/Fail)			
	0.15 MHz-10 MHz		3V	А	А	Pass			
Charging mode	10 MHz-30 MHz	AC port	3V-1V	А	A	Pass			
	30 MHz-80 MHz		1V	А	A	Pass			
Observation Description: A: Operation as intend, no loss of function during test and after test.									
Test Engineer: An Test Date: Jun. 10	0		Review By: Eddie ate: Jun. 10, 202			8			

10.7. Test photo

















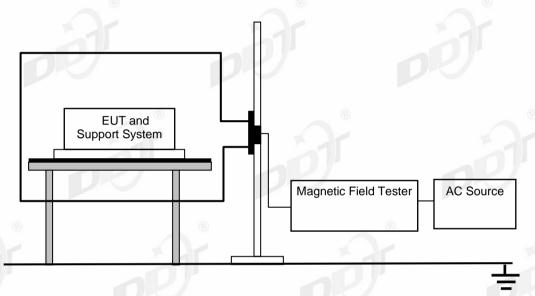
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11. Power-Frequency Magnetic Fields

11.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	ll ast Cal	Cal. Interval
	EMC PARTNER		TRA3000F-1502	May 16, 2022	1 Year
Magnetic Field Tester	EMC PARTNER	MF1000-1	207	Sep. 02, 2021	1Year

11.2. Block diagram of test setup



11.3. Test levels and performance criterion

Level	Magnetic Field Strength (A/m)	Performance Criterion
1	1	А

Performance criteria A description: 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.

11.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other ©
Adapter	Amazom	AP8NA	N/A	NPUT: AC 100V- 240V,50/60Hz, 0.5A Output: 5V/1A
Charging cable	N/A	N/A	N/A	N/A

11.5. Test procedure

The EUT shall be subjected to the test magnetic field by using the induction coil of standard dimensions (1m*1m). Then induction coil shall then be rotated by 90° in order to expose the EUT to the test field with different orientations.

11.6. Test result

Test Site: DDT 7# S	Shield Room		, <u>r</u>	1	$\mathcal{O}_{\mathcal{I}}$	
Ambient Condition:		5.3 %RH,	<u>101.4</u> kPa			
TestPower supply:	AC 230V/50H	z, ⊡Battery⊡l	DC:			
According Standard	I:⊠ EN 61000-4	-8,⊠ EN5503	35,⊡other:			
		Testing	Coil	Poquirod	Observation	Result
Operation Mode	Test Level	Duration	Orientation	Required	Observation	(Pass/Fail)
			X	А	A	Pass
Charging mode	1A/m, 50Hz	5 min / coil	Y	Α	A	Pass
		6	Z	A	А	Pass
Observation Description A: Operation as inter		unction during	g test and afte	er test.		07
Test Engineer: Elosk Test Date: Jun. 13, 2			Review By: Date: Jun. 1			

11.7. Test photo



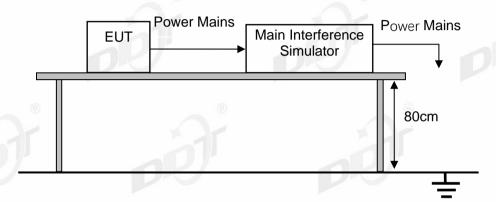
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12. Voltage Dips and Interruptions

12.1. Test Equipment

Equipment	Manufacturer	Model No.	Serial No.		Cal. Interval
EFT Generator	EMC PARTNER		TRA3000F-1502		1 Year
DIPS TESTER	EMC PARTNER	EXT- TRA3000D	EXT-TRA3000D- 1510	May 16, 2022	1 Year

12.2. Block diagram of test setup



12.3. Test levels and performance criterion

ſ	Test	Duration (in period)	Performance Criterion
7	Level %UT		
<5		0.5	В
	70	25 for 50 Hz/30 for 60 Hz	С
	<5	250 for 50 Hz/300 for 60 Hz	C ®

Performance criteria B description: During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test. 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. Performance criteria C description: During and after testing, a temporary loss of function is allowed, provided the function is self recoverable, 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.

Assistant equipment	Manufacturer	Model number	Description	other
Adapter	Amazom	AP8NA	N/A	NPUT: AC 100V- 240V,50/60Hz, 0.5A Output: 5V/1A
Charging cable	N/A	N/A	N/A	N/A

12.4. Assistant equipment used for test

12.5. Test Procedure

The EUT and test generator were setup as shown. The interruptions are introduced at selected phase angles with specified duration. Record any degradation of performance. Note: Changes to occur at 0 degree crossover point of the voltage waveform. If the EUT does not demonstrate compliance when tested with 0 degree switching, the test shall be repeated with the switching occurring at both 90 degrees and 270 degrees. If the EUT satisfies these alternative requirements, then it fulfils the requirements.

12.6. Test result

Test Site: DDT 7# Shield Room							
Ambient Condition: <u>22.5</u> ℃, <u>55.3</u> %RH, <u>101.4</u> kPa							
TestPower supply:⊠ AC 240V/50Hz							
According Standard:⊠EN 61000-4-11,⊠EN 55035,□other:							
Operation	Voltage Dips & Interruptions %Ur	Duration (in period)	Phase Angle	Required	Observation	Result	
Operation							
Mode		(in period)	7 (Figie			(Pass/Fail)	
Charging	0	0.5P	0° to360°	В	А	Pass	
Charging	70	25P	0° to 360°	С	А	Pass	
mode	0	250P	0° to 360°	С	В	Pass	
Observation Description:							
A: Operation	as intend, no loss of	f function du	ring test and af	ter test:			

B: During the test, the prototype do	es not charge, and works normally after the test is completed
Test Engineer: Elosky Liu	Review By: Eddie Liu
Test Date: Jun. 13, 2022	Date: Jun. 13, 2022

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Test Site: DDT 7# Shield Room							
Ambient Condition: <u>22.5</u> ℃, <u>55.3</u> %RH, <u>101.4</u> kPa							
TestPower supply:⊠ AC 100V/60Hz							
According Sta	According Standard:⊠EN 61000-4-11,⊠EN 55035,⊡other:						
Operation	Voltage Dips & Interruptions %Ur	Duration (in period)	Phase Angle	Required	Observation	Result	
Mode						(Pass/Fail)	
Charging	0	0.5P	0° to360°	В	A	Pass	
Charging	70	30P	0° to 360°	С	А	Pass	
mode	0	300P	0° to 360°	С	В	Pass	
Observation Description: A: Operation as intend, no loss of function during test and after test;							

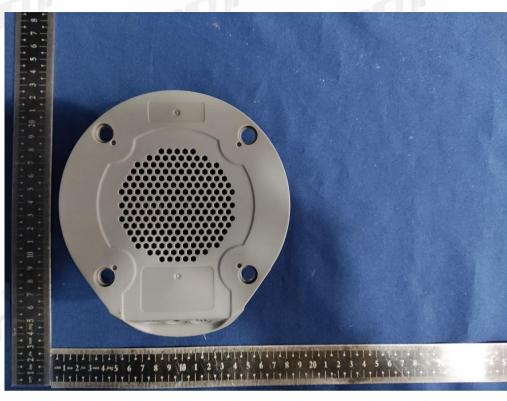
B: During the test, the prototype does not charge, and works normally after the test is completedTest Engineer: Elosky LiuReview By: Eddie LiuTest Date: Jun. 13, 2022Date: Jun. 13, 2022

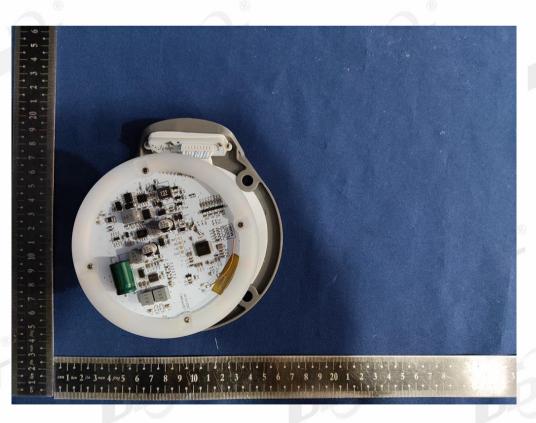
12.7. Test photo





13. Photos of the EUT







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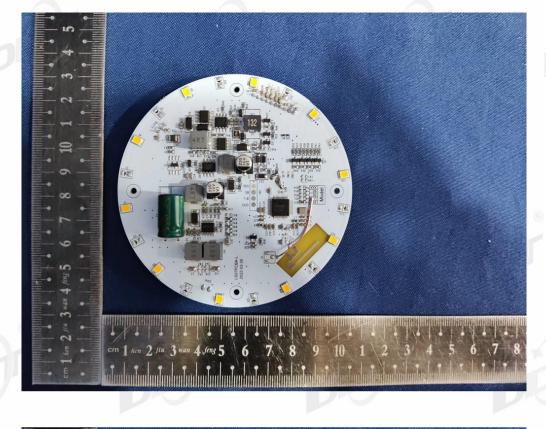
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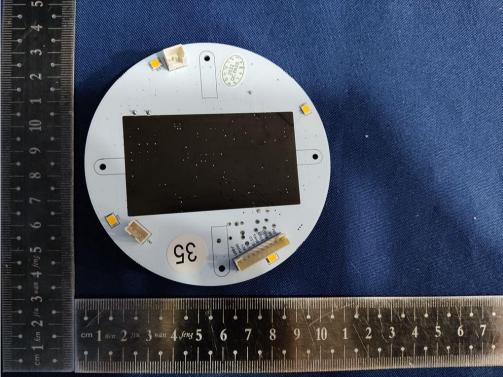


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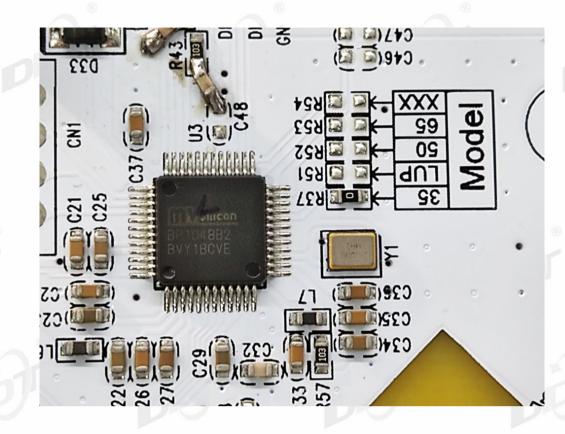


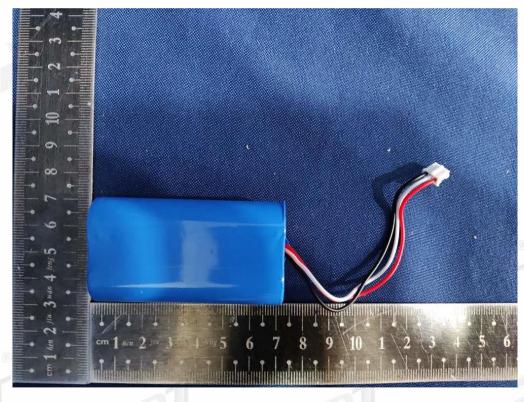




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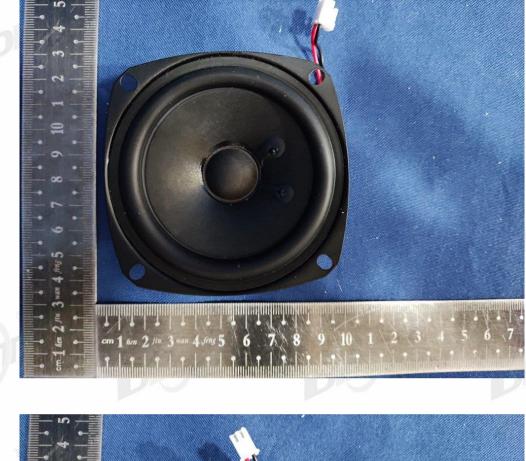


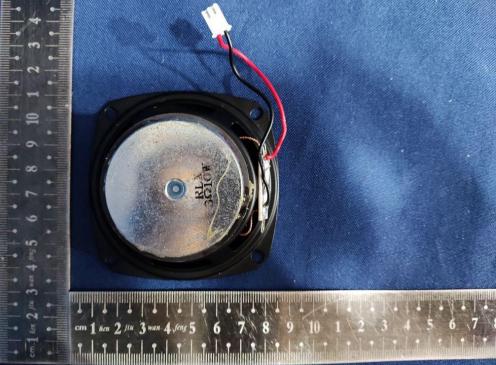


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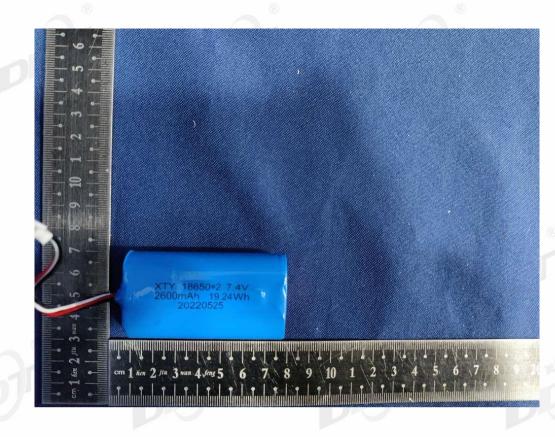


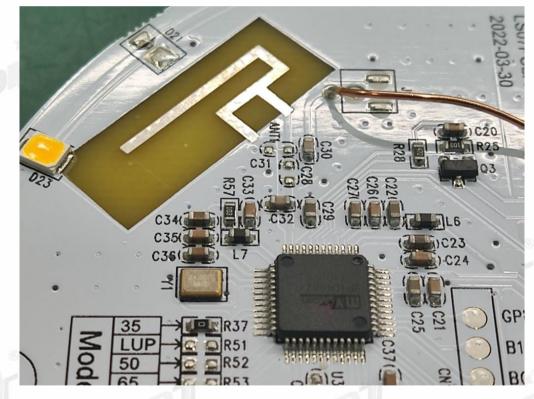


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Dongguan Dongdian Testing Service Co., Ltd.





END OF REPORT

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