

TEST REPORT

Application No.: GZEM2311006382HS

Equipment Under Test (EUT):

EUT Name: MOVEMENT

Model No.: SANGTAI6168S, SANGTAI5168, SANGTAI5168S, SANGTAI6168, SANGTAI7168, SANGTAI7168S, SANGTAIm5, SANGTAI5168L, SANGTAI5168SL, SANGTAI6168L, SANGTAI6168SL, ST7168SR, 6168 ♣

♣

Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.

Trade Mark: SANGTAI

Standard(s) : EN IEC 61000-6-3: 2021
EN IEC 61000-6-1: 2019

Date of Receipt: 2023-11-24

Date of Test: 2023 11-28 to 2023-11-30

Date of Issue: 2023-12-08

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Jerry Chan
Manager



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Revision Record			
Version	Report No.	Date	Remark
01	GZEM231100638201	2023-12-08	Original

Authorized for issue by:				
		Pank Feng		
		Pank Feng/Project Engineer		
		Terry Lai		
		Terry Lai/Reviewer		



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (30MHz-1GHz)	EN IEC 61000-6-3: 2021	CISPR 16-2-3	Table 3.1	Pass

Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN IEC 61000-6-1: 2019	EN 61000-4-2:2009	± 4kV Contact Discharge, ±8kV Air Discharge	Pass
Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)		EN IEC 61000-4-3: 2020	3V/m, 80%, 1kHz Amp. Mod.	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

♣ Declaration of EUT Family Grouping:

Model No.: SANGTAI6168S, SANGTAI5168, SANGTAI5168S, SANGTAI6168, SANGTAI7168, SANGTAI7168S, SANGTAIm5, SANGTAI5168L, SANGTAI5168SL, SANGTAI6168L, SANGTAI6168SL, ST7168SR, 6168

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model name.

Therefore, only one model SANGTA16168S was tested in this report.

3 Contents

	Page
1 Cover Page.....	1
2 Test Summary.....	3
3 Contents.....	4
4 General Information	5
4.1 Details of E.U.T.	5
4.2 Description of Support Units	5
4.3 Measurement Uncertainty.....	5
4.4 Test Location.....	5
4.5 Test Facility	6
4.6 Deviation from Standards	6
4.7 Abnormalities from Standard Conditions	6
5 Equipment List.....	7
6 Emission Test Results.....	9
6.1 Radiated Emissions (30MHz-1GHz).....	9
6.1.1 E.U.T. Operation	9
6.1.2 Test Mode Description.....	9
6.1.3 Test Setup Diagram.....	9
6.1.4 Measurement Procedure and Data	9
7 Immunity Test Results.....	12
7.1 Electrostatic Discharge	13
7.1.1 Test Setup Diagram.....	13
7.1.2 E.U.T. Operation	13
7.1.3 Test Mode Description.....	13
7.1.4 Test Condition and Results:	14
7.2 Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz).....	15
7.2.1 Test Setup Diagram.....	15
7.2.2 E.U.T. Operation	15
7.2.3 Test Mode Description.....	15
7.2.4 Test Condition and Results:	16
8 Test Setup Photo	17
9 EUT Constructional Details (EUT Photos)	20



4 General Information

4.1 Details of E.U.T.

Power supply: Battery operation:
DC 3V =DC 1.5V x 2 size AAA batteries

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions (30MHz-1GHz)	5.00dB (30MHz-1GHz):3m; 4.38dB (30MHz-1GHz):10m
Remark: The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	

4.4 Test Location

All tests were performed at:
SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663
Tel: +86 20 82155555 Fax: +86 20 82075059
No tests were sub-contracted.



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4.5 Test Facility

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2022-12-16	2023-12-15
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2022-10-16	2025-10-15
Coaxial cable	Mirco-COAX UTIFLEX	311A	EMC0540	2023-06-14	2025-06-13
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2023-06-14	2024-06-13
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Trilog Broadband Antenna (25MHz-1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2022-06-19	2025-06-18

Electrostatic Discharge					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Temperature & Humidity	Shanghai Meteorological Instrument Factory Co., Ltd.	ZJ1-2B	EMC0078	2023-06-12	2024-06-11
ESD Ground Plane	SGS-EMC	3m x 3m	EMC0804	N/A	N/A
Aneroid Barometer	Shanghai Meteorological Instrument Factory Co., Ltd.	YM3	EMC2181	2023-11-08	2024-11-07
ESD Simulator-E	EMTEST	NX30	EMC2186	2023-02-20	2024-02-19



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Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
743 Compact 3m Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2022-10-16	2025-10-15
Monitor System	Mitsubish Corp.	M-0552AB	EMC0909	N/A	N/A
Oscilloscope	Tektronix	TDS3052C	EMC2055	2023-11-10	2024-11-09
Laser Probe Interface	RF Microwave Instrumentation	FI7000	EMC2089	N/A	N/A
Open Switch And Control Unit	Rohde & Schwarz	OSP130	EMC2090	N/A	N/A
Broadband Amplifier (80MHz~1GHz/250W)	Rohde & Schwarz	BBA150	EMC2091	2022-12-16	2023-12-15
Broadband Amplifier (800MHz~3GHz/110W)	Rohde & Schwarz	BBA150	EMC2092	2022-12-16	2023-12-15
Signal Generator (9kHz-6GHz)	Rohde & Schwarz	SMB100A	EMC2093	2022-12-16	2023-12-15
Laser Probe	RF Microwave Instrumentation	FL7006	EMC2094	2023-04-26	2024-04-27
NRP-Z91 Power Sensor (9kHz-6GHz)	Rohde & Schwarz	NPR-Z91	EMC2095	2022-12-16	2023-12-15
NRP-Z91 Power Sensor (9kHz-6GHz)	Rohde & Schwarz	NPR-Z91	EMC2096	2022-12-16	2023-12-15
High-Gain Log-preiodic Antenna	Rohde & Schwarz	HL046E	EMC2097	2022-02-14	2025-02-13
RI Cable	Rohde & Schwarz	7m	EMC2098	2023-05-19	2024-05-18
Broadband Amplifier (2.5~6GHz/30W)	Rohde & Schwarz	BBA150	EMC2105	2023-08-23	2024-08-22
Audio Analyzer	Keysight	U8903B	EMC2180	2023-08-30	2024-08-29
Test Software EMC32	Rohde & Schwarz	Ver. 10.60.10	GZE100-63	N/A	N/A
Stacked Logarithmic-Periodic Broadband Antenna (0.7~9GHz)/300W	Schwarzbeck	STLP 9149	SEM003-21	2021-09-18	2024-09-17

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2023-06-11	2024-06-10
DMM	Fluke	73	EMC0007	2023-06-11	2024-06-10



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6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement:	EN IEC 61000-6-3: 2021
Test Method:	CISPR 16-2-3
Limit:	
Test Distance:	10m
30MHz-230MHz	30 dB(μV/m) quasi-peak
230MHz-1GHz	37 dB(μV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 1000MHz

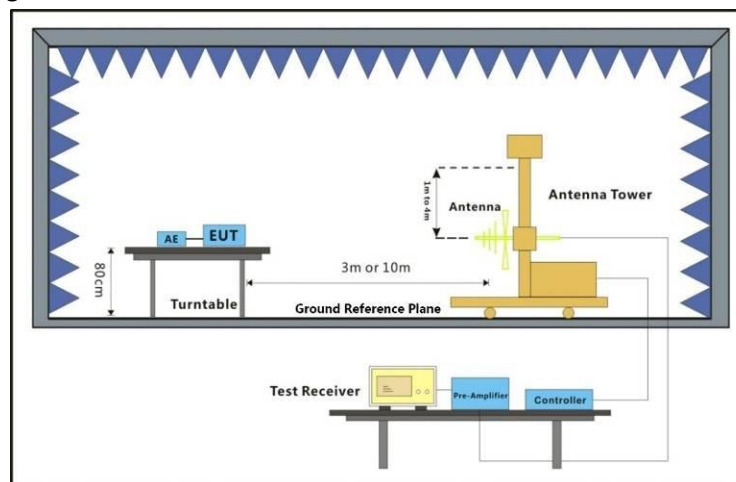
6.1.1 E.U.T. Operation

Operating Environment:			
Temperature:	23.6 °C	Humidity:	56.3 % RH
		Atmospheric Pressure:	1016 mbar

6.1.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	00	Test the EUT in normal working mode.

6.1.3 Test Setup Diagram



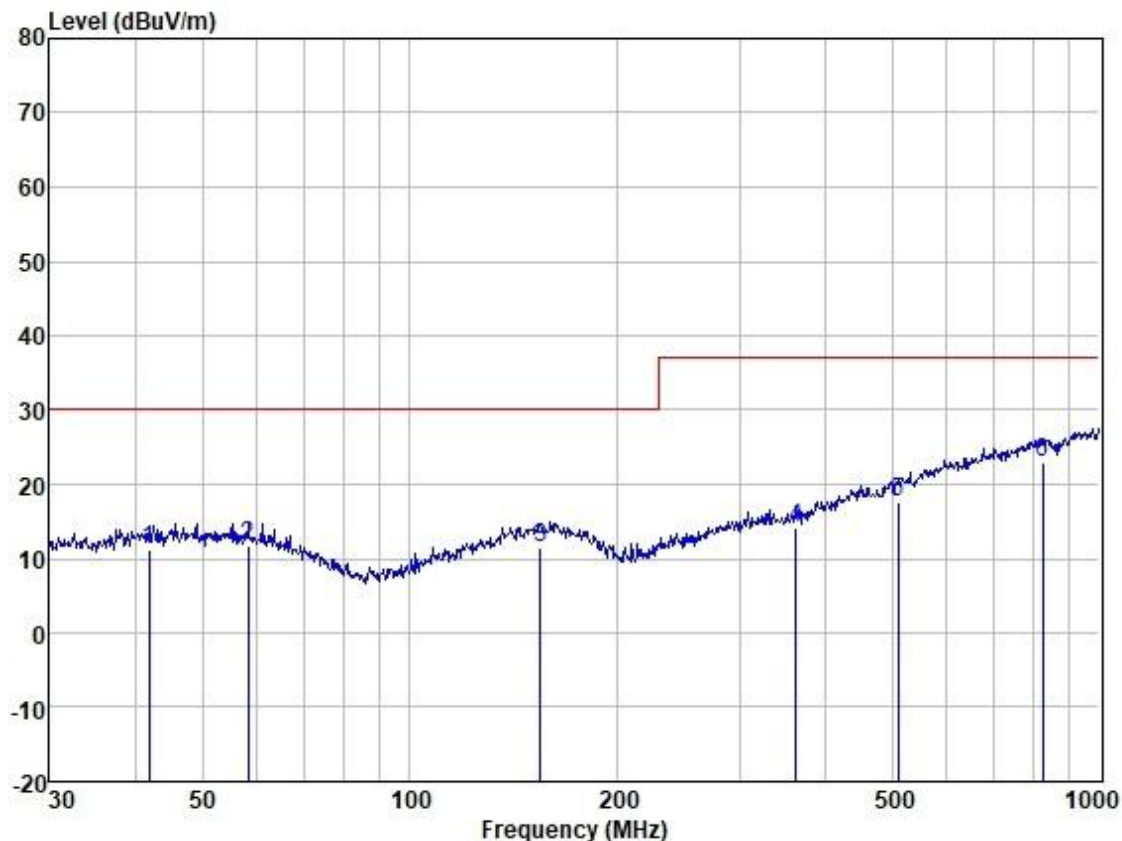
6.1.4 Measurement Procedure and Data

Frequency range: 30MHz-1GHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. The red line show in graphic is the limit in standard used in this section.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Test Mode: 00; Polarity: Horizontal

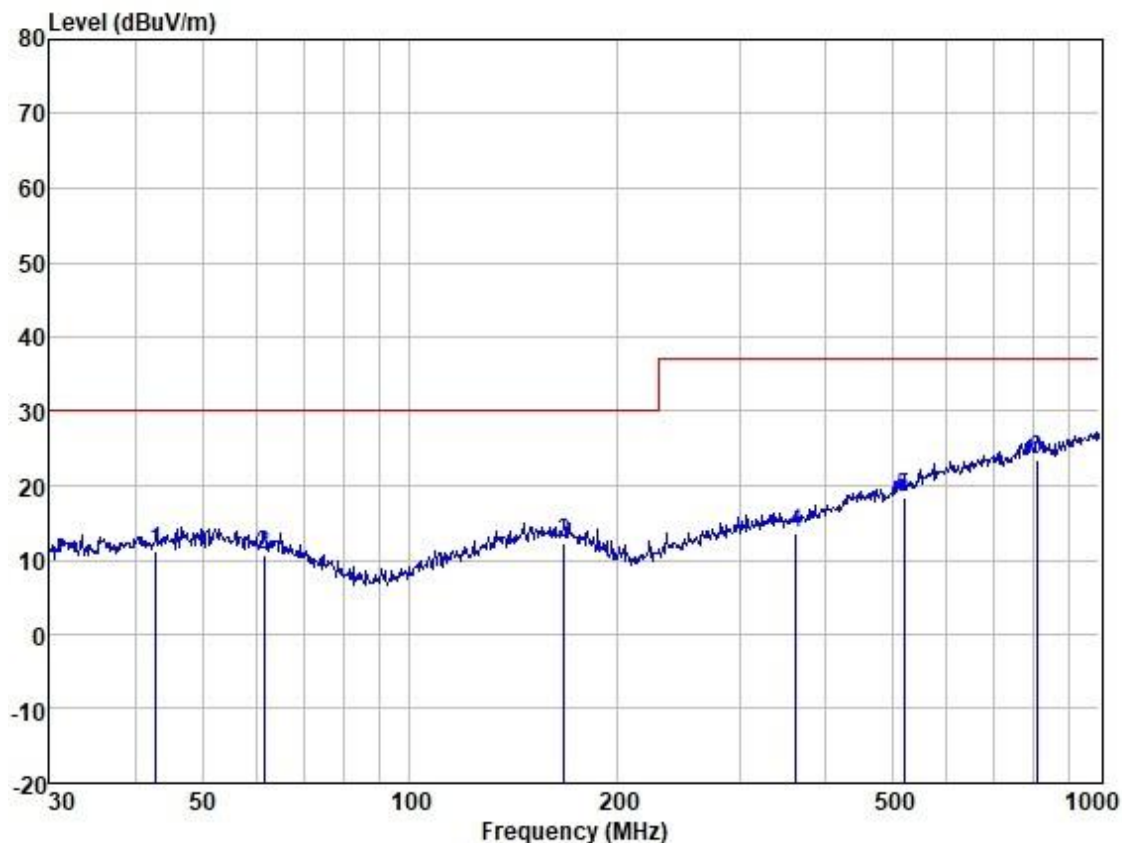


Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	41.860	25.16	13.66	0.43	28.12	11.13	30.00	-18.87	HORIZONTAL	QP
2	58.203	25.69	13.56	0.51	28.10	11.66	30.00	-18.34	HORIZONTAL	QP
3	154.279	24.83	13.59	0.84	27.80	11.46	30.00	-18.54	HORIZONTAL	QP
4	362.985	26.11	14.68	1.30	27.91	14.18	37.00	-22.82	HORIZONTAL	QP
5	510.044	26.59	18.21	1.53	28.70	17.63	37.00	-19.37	HORIZONTAL	QP
6	827.493	26.23	23.25	1.96	28.47	22.97	37.00	-14.03	HORIZONTAL	QP



Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	42.750	25.16	13.75	0.43	28.12	11.22	30.00	-18.78	VERTICAL	QP
2	61.346	25.03	13.20	0.53	28.10	10.66	30.00	-19.34	VERTICAL	QP
3	167.237	25.65	13.38	0.87	27.71	12.19	30.00	-17.81	VERTICAL	QP
4	362.985	25.58	14.68	1.30	27.91	13.65	37.00	-23.35	VERTICAL	QP
5	520.888	27.06	18.46	1.55	28.71	18.36	37.00	-18.64	VERTICAL	QP
6	810.265	26.89	23.21	1.94	28.49	23.55	37.00	-13.45	VERTICAL	QP



7 Immunity Test Results

Performance Criteria Description in EN IEC 61000-6-1:2019

Criterion A

The EUT shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. If the performance level is not specified by the manufacturer, this may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

Criterion B

The EUT shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed 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. However, during the test degradation of performance is allowed but no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

Criterion C

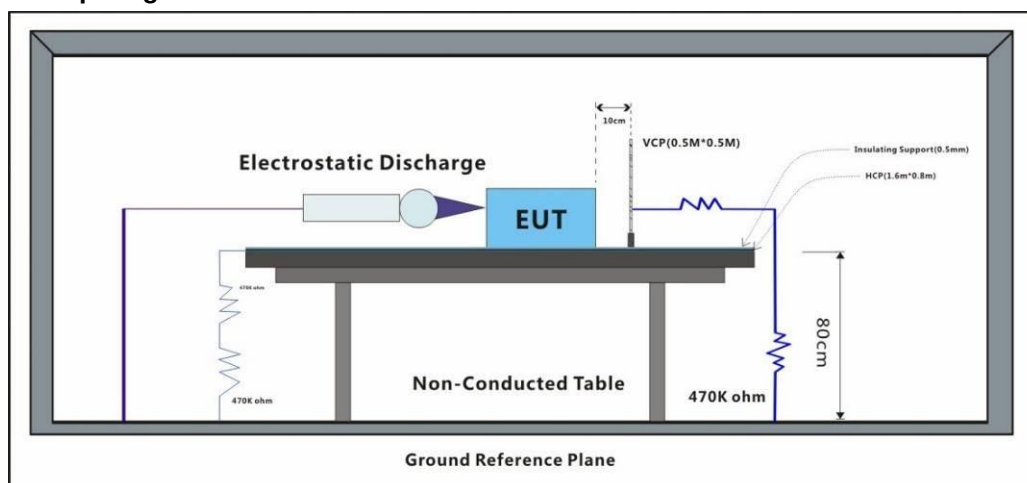
Temporary loss of function is allowed during the test, provided the function is self-recoverable or can be restored by the operation of the controls.

7.1 Electrostatic Discharge

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN 61000-4-2:2009

7.1.1 Test Setup Diagram



7.1.2 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 1016 mbar

7.1.3 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	00	Test the EUT in normal working mode.

7.1.4 Test Condition and Results:

Performance Criterion: B
 Discharge Impedance: 330Ω/150pF
 Number of Discharge: Minimum 10 times at each test point
 Discharge Mode: Single Discharge
 Discharge Period: 1 second minimum
 Test Point: 1. All insulated enclosure and seams.
 2. All accessible metal parts of the enclosure.
 3. All side

Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Air Discharge	2,4,8	+	1	A
Air Discharge	2,4,8	-	1	A
Contact Discharge	4	+	2	A
Contact Discharge	4	-	2	A
Horizontal Coupling	4	+	3	A
Horizontal Coupling	4	-	3	A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

A: No degradation in the performance of the EUT was observed



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No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
 中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

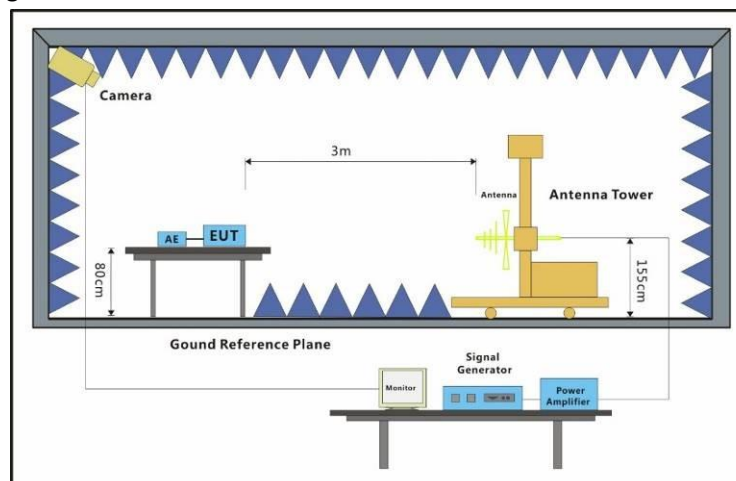
t (86-20) 82155555 www.sgsgroup.com.cn
 t (86-20) 82155555 sgs.china@sgs.com

7.2 Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN IEC 61000-4-3: 2020

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C

Humidity: 53.3 % RH

Atmospheric Pressure: 1016 mbar

7.2.3 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	Test the EUT in normal working mode.

7.2.4 Test Condition and Results:

Performance Criterion:A

Antenna Polarisation:Vertical and Horizontal

Modulation:1kHz,80% Amp. Mod,1% increment

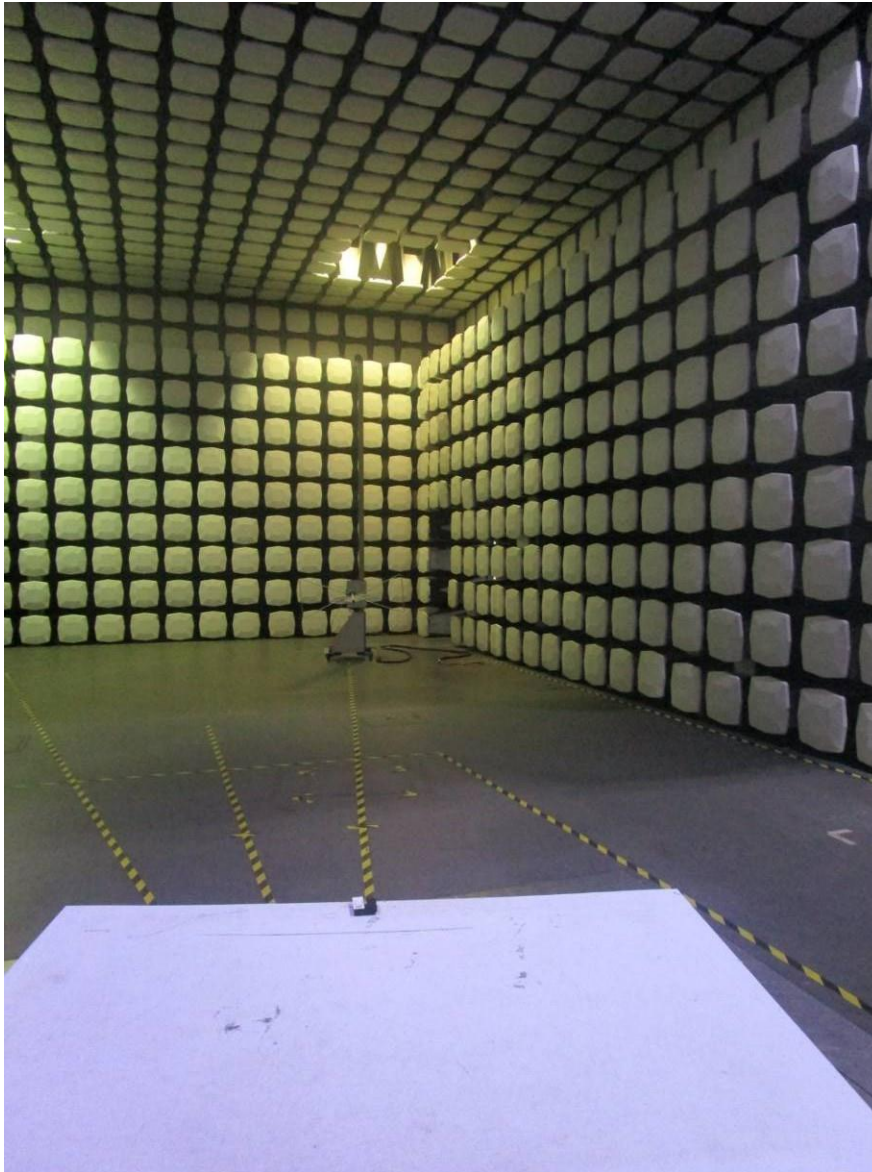
Frequency Range:80MHz to 1GHz, 1.4GHz to 6GHz

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	3	Front	2s	A
80MHz-1GHz	3	Back	2s	A
80MHz-1GHz	3	Left	2s	A
80MHz-1GHz	3	Right	2s	A
80MHz-1GHz	3	Top	2s	A
80MHz-1GHz	3	Underside	2s	A
1.4GHz-6GHz	3	Front	2s	A
1.4GHz-6GHz	3	Back	2s	A
1.4GHz-6GHz	3	Left	2s	A
1.4GHz-6GHz	3	Right	2s	A
1.4GHz-6GHz	3	Top	2s	A
1.4GHz-6GHz	3	Underside	2s	A

A: No degradation in the performance of the EUT was observed

8 Test Setup Photo

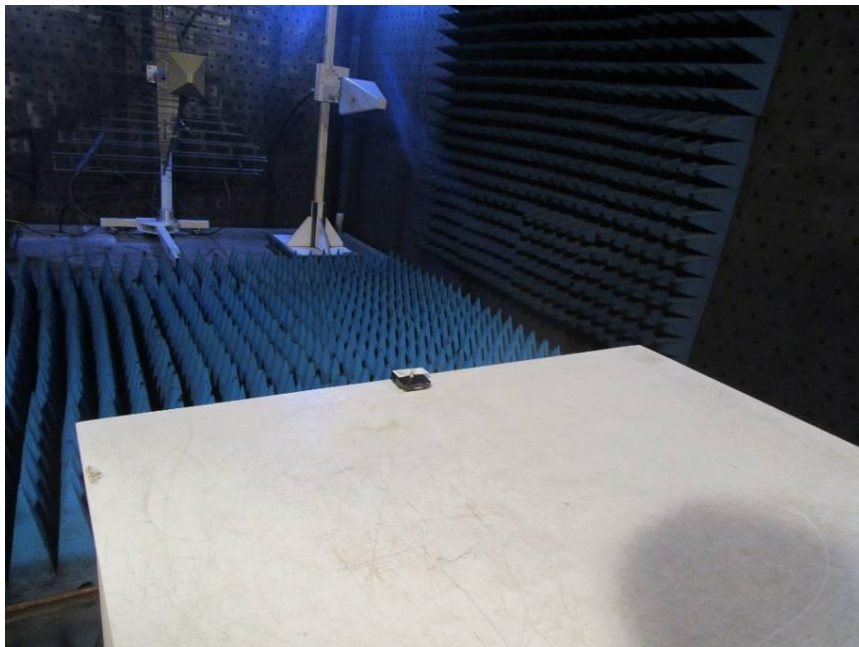
Radiated Emissions (30MHz-1GHz)



Electrostatic Discharge



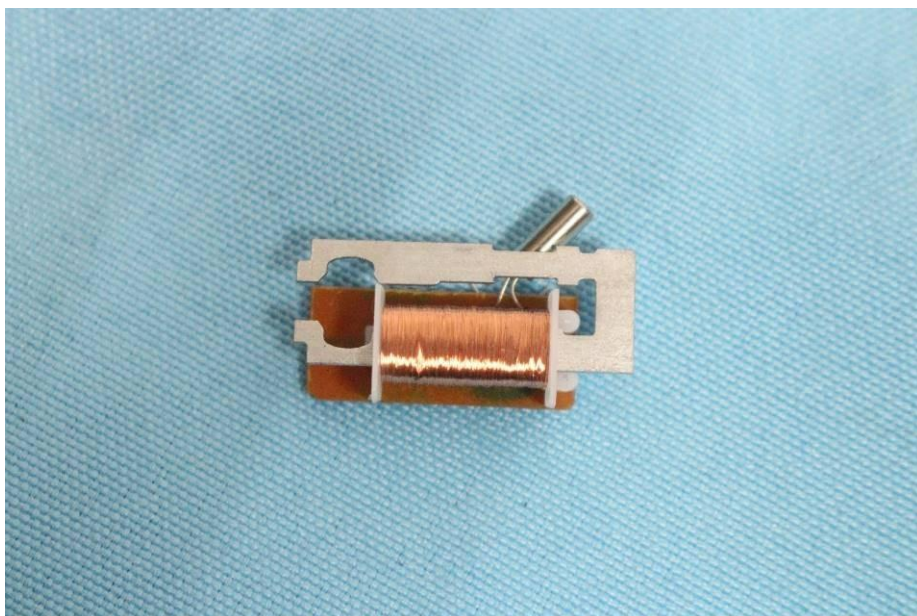
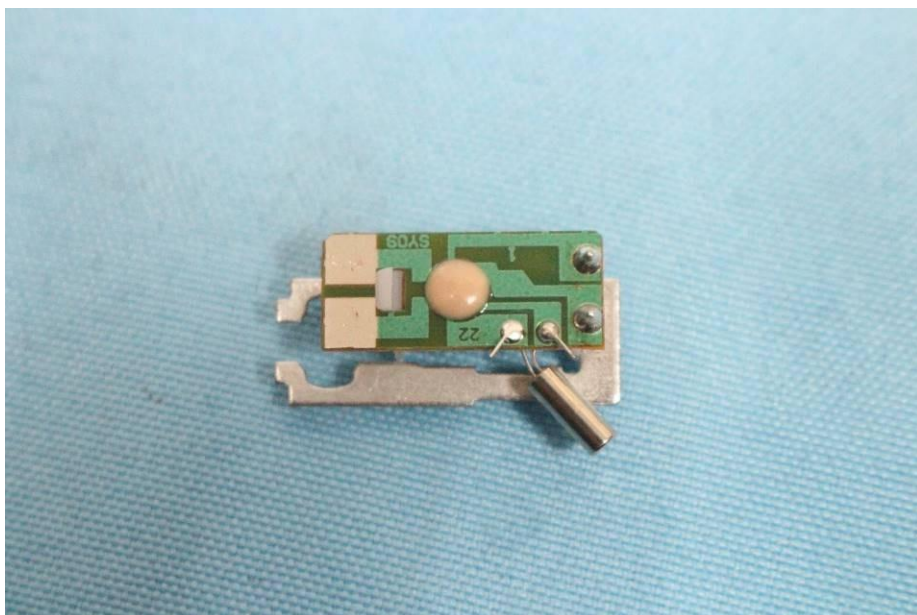
Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)



9 EUT Constructional Details (EUT Photos)







- End of the Report -