

CE-EMC TEST REPORT

Prepared for :

TeraSci Industries Inc.

5362 Production Dr. Huntington Beach Ca. USA 92649

Product Name: TeraSci

Trade Mark: SS-16

Product Model (S): SCI-SS-16

Date of Test: May 21, 2026 – Jun. 24, 2026

Date of Report: Jun. 24, 2026

Report Number: KX2605210773E01

Prepared By :

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TEST REPORT

Applicant : TeraSci Industries Inc.
Address : 5362 Production Dr. Huntington Beach Ca. USA 92649
Manufacturer : TeraSci Industries Inc.
Address : 5362 Production Dr. Huntington Beach Ca. USA 92649
Product Name : TeraSci
(A) Product Model : SCI-SS-16
(B) Series Model : N/A
(C) Power Supply : AC 100-230V, 50/60Hz

Standards EN 55032:2015 + A1:2020 + A11:2020
EN IEC 61000-3-2:2019 + A1:2021 + A2:2024
EN 61000-3-3:2013 + A1:2019 + A2:2021
EN 55035:2017+ A11:2020

This device described above has been tested by KEX, and the test results show that the equipment under test (EUT) is in compliance with the 2014/30/EU requirements. And it is applicable only to the tested sample identified in the report.

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Test Result..... **Pass**

Date of Test: May 21, 2026 – Jun. 24, 2026

Testing Engineer: Daniel Siu
Project Engineer

Technical Manager: Steven Pan
Project Supervisor

Authorized Signatory: Tom Zhong
Technical Director

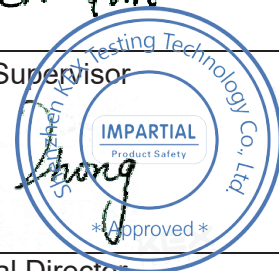


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**** Issued history****

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	2026/06/24	Tom Zhong

1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
EN 55032	Conducted Emission (AC port)	Class A	PASS	
	Conducted Emission (Telecommunication port)	Class A	PASS	
	Radiated Emission	Class A	PASS	
EN IEC 61000-3-2	Harmonic Current Emission	Class A	PASS	
EN 61000-3-3	Voltage Fluctuations & Flicker	-----	PASS	
EMC Immunity				
Section EN 55035	Test Item	Performance Criteria	Judgment	Remark
EN IEC 61000-4-2	Electrostatic Discharge	B	PASS	
EN IEC 61000-4-3	RF electromagnetic field	A	PASS	
EN 61000-4-4	Fast transients	B	PASS	
EN 61000-4-5	Surges	B	PASS	
EN IEC 61000-4-6	Injected Current	A	PASS	
EN 61000-4-8	Power Frequency Magnetic Field	A	N/A	
EN IEC 61000-4-11	Volt. Interruptions Volt. Dips	B / C / C NOTE (3)	PASS	

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) Voltage dip: 100% reduction – Performance Criteria **B**
Voltage dip: 30% reduction – Performance Criteria **C**
Voltage Interruption: 100% Interruption – Performance Criteria **C**
- (3) For client's request and manual description, the test will not be executed.

NOTE: Equipment meeting Class A requirements may not offer adequate protection to broadcast services within a residential environment.

1.1 TEST FACILITY

Shenzhen KEX Testing Technology Co., Ltd.
 Add.: 101, Building A1, No. 2082 Jincheng Road, Haoxiang Community, Shajing Street,
 Bao'an District, Shenzhen City, Guangdong Province, China

1.2 MEASUREMENT UNCERTAINTY

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

A. Conducted Measurement :

Measurement Frequency Range	Uncertainty	NOTE
150kHz ~ 30MHz	±2.71dB	

B. Radiated Measurement :

Measurement Frequency Range	Uncertainty	NOTE
30 ~ 1000MHz	±3.90dB	
1 ~ 6GHz	±4.28dB	

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	TeraSci	
Product Model	SCI-SS-16	
Series Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a TeraSci.	
	Operating frequency:	N/A
	Connecting I/O port:	N/A
Power Source	AC Voltage	
Power Rating	AC 100-230V, 50/60Hz	

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Working

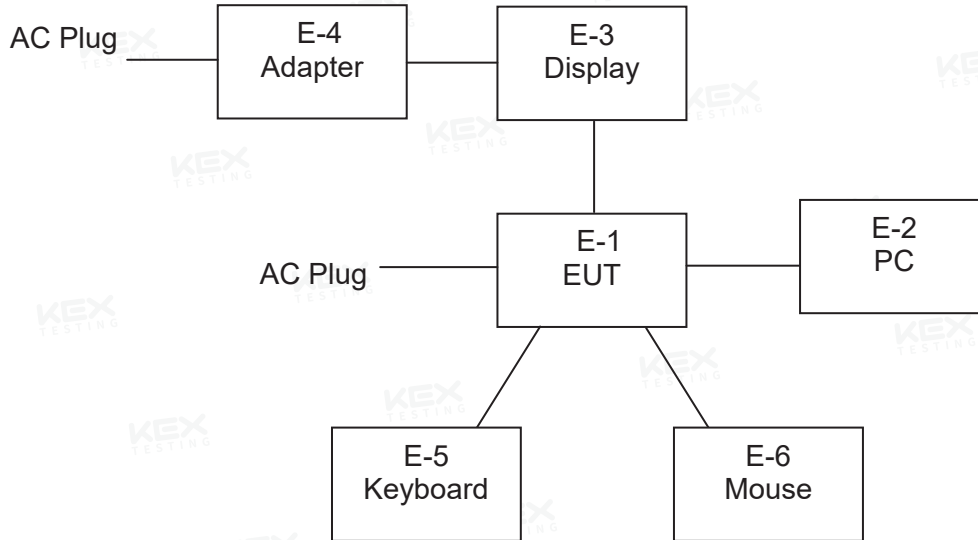
For Conducted Test	
Final Test Mode	Description
Mode 1	Working

For Radiated Test	
Final Test Mode	Description
Mode 1	Working

For EMS Test	
Final Test Mode	Description
Mode 1	Working

2.3 DESCRIPTION OF TEST SETUP

Mode 1:



2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Series No.	Note
E-1	TeraSci	SS-16	SCI-SS-16	N/A	EUT
E-2	PC	Lenovo	ThinkPad E14 Gen6	N/A	
E-3	Display	PHILIPS	279E1	N/A	
E-4	Adapter	PHILIPS	ADPC2065	N/A	
E-5	Keyboard	N/A	N/A	N/A	
E-6	Mouse	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.5 MEASUREMENT INSTRUMENTS LIST

2.5.1 CONDUCTED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	KEXE-002	Jan. 07, 2027
2	LISN	R&S	ENV216	KEXE-003	Jan. 07, 2027
3	EMI Test Receiver	R&S	ESR-7	KEXE-004	Jan. 07, 2027
4	ISN	ETC	08-06-BAC-0 22-02	KEXE-033	Jan. 07, 2027
5	Cable	Times	Cable1	KEXE-043	Jan. 07, 2027
6	Conduction test software	Tonscend	JS32	KEXE-057	/

2.5.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Broadband antenna	Schwarzbeck	VULB 9163	KEXE-012	Jan. 12, 2027
2	Horn antenna	Schwarzbeck	9120D	KEXE-013	Jan. 12, 2027
3	EMI Test Receiver	R&S	ESR-7	KEXE-009	Jan. 07, 2027
4	Spectrum Analyzer	Agilent	N9020A	KEXE-028	Jan. 07, 2027
5	Amplifier	Schwarzbeck	BBV9743	KEXE-010	Jan. 07, 2027
6	Amplifier	COM-POWER	PAM-118A	KEXE-011	Jan. 07, 2027
7	Cable	Times	9kHz-1GHz	KEXE-046	Jan. 07, 2027
8	Cable	Times	1GHz-18GHz	KEXE-047	Jan. 07, 2027
9	Radiation test software	Tonscend	JS32-RE 5.0. 0	KEXE-058	/

2.5.3 HARMONICS AND FILCK

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Harmonic flicker tester	California Instruments	AC2000A	KEXE-020	Jan. 07, 2027

2.5.4 ESD

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	ESD device	Schloder	SESD 216	KEXE-021	Jan. 07, 2027

2.5.5 RS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power amplifier	micotop	MPA-80-1000-250	KEXE-016	Jan. 07, 2027
2	Power amplifier	micotop	MPA-1000-6000-100	KEXE-017	Jan. 07, 2027
3	Power Meter	KEYSIGHT	E4419B	KEXE-031	Jan. 07, 2027
4	Vector signal generator	Agilent	N5181A	KEXE-019	Jan. 07, 2027
5	Field strength probe	Agilent	E9304A H18	KEXE-014	Jan. 07, 2027
6	Stacked log-periodic antenna	Tonscend	SLA35-10	KEXE-035	Jan. 12, 2027
7	Cable	Times	80MHz-6GHz	KEXE-048	Jan. 07, 2027
8	RS test software	Tonscend	JS35	KEXE-059	/

2.5.6 SURGE, EFT/BURST, VOLTAGE INTERRUPTION/DIPS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Full-featured immunity tester	HTEC	HCOMPACT	KEXE-022	Jan. 07, 2027
2	Pulse coupling clamp	HTEC	H3C	KEXE-023	Jan. 07, 2027

2.5.7 INJECTION CURRENT

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Magnetic clamp	LIONCEL	CDN-M3-16	KEXE-024	Jan. 07, 2027
2	Integrated Conduction Sensitivity Test System	LIONCEL	RIS-6091	KEXE-025	Jan. 07, 2027
3	Coupling decoupling network	LIONCEL	EMCL-20	KEXE-026	Jan. 07, 2027

2.5.8 MF

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power frequency induction coil	LIONCEL	PMF-801C-A	KEXE-032	Jan. 07, 2027

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150kHz~30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 ~ 5.0	73.00	60.00	56.00	46.00
5.0 ~ 30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

3.1.2 Telecommunication Ports CONDUCTED (Frequency Range 150kHz~30MHz) EMISSION

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	97 ~ 87	84 ~ 74	84 ~ 74	74 ~ 64
0.50 ~ 30.0	87.00	74.00	74.00	64.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

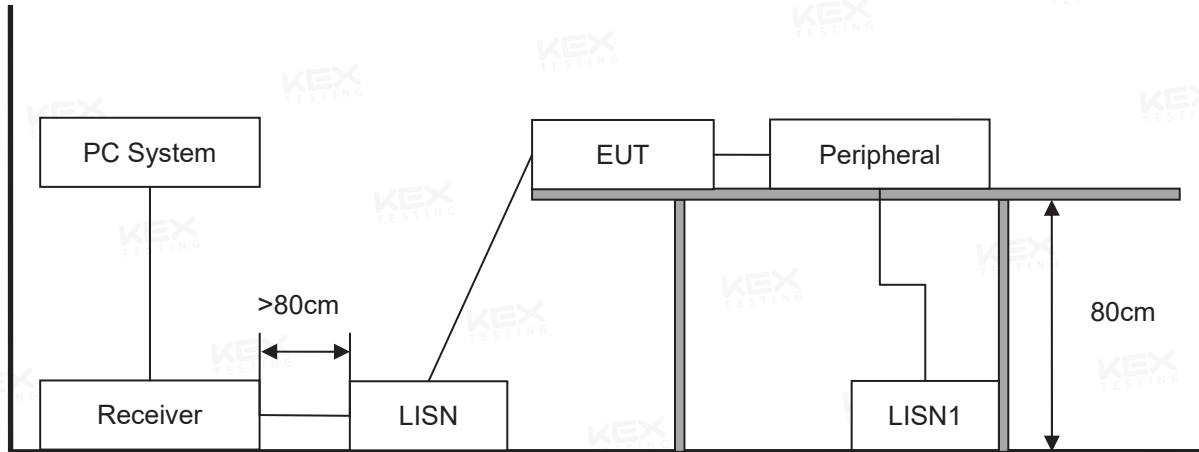
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.3 TEST PROCEDURE

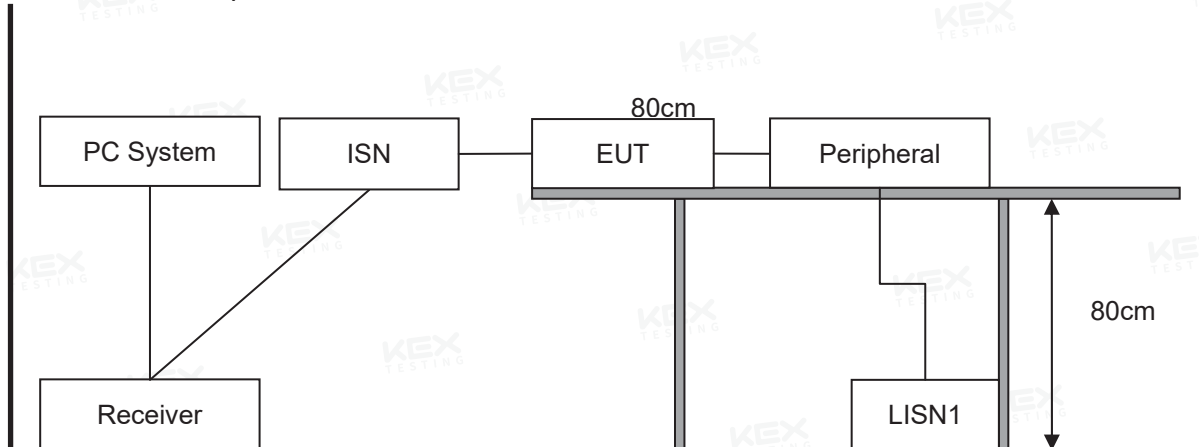
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.4 TEST SETUP

AC Port



Telecommunication port

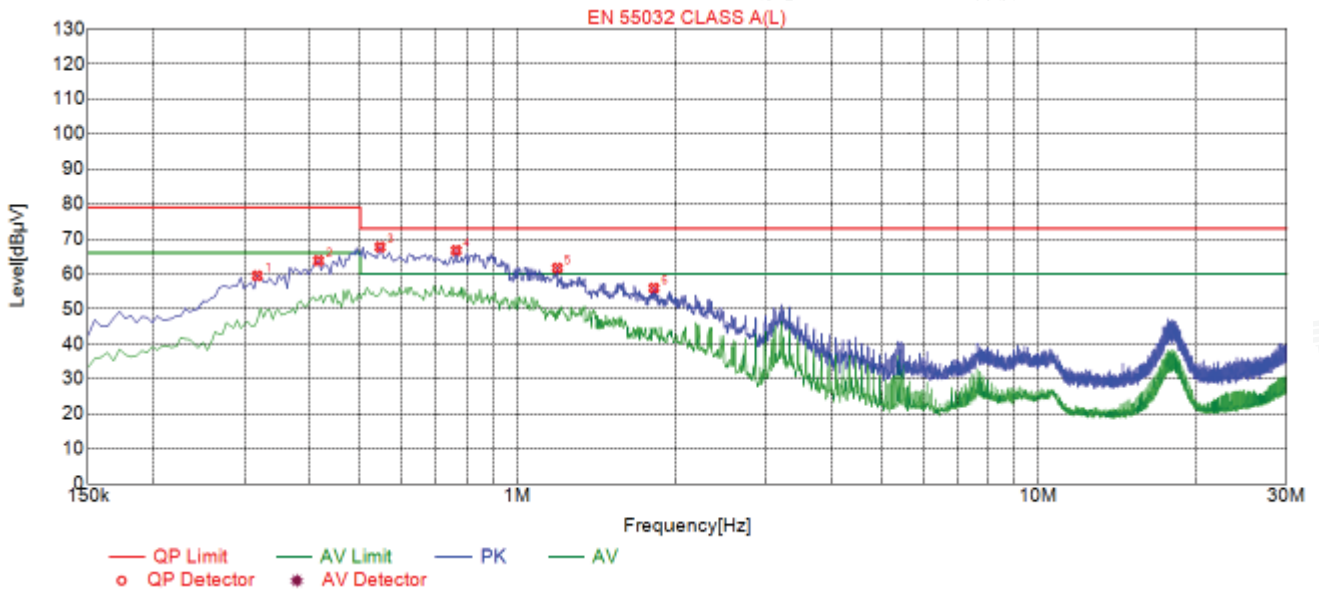


3.1.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

3.1.6 TEST RESULTS

EUT :	TeraSci	Model Name. :	SCI-SS-16
Temperature :	23.7 °C	Relative Humidity :	51%
Pressure :	1010hPa	Test Date :	2026-06-16
Test Mode :	Mode 1	Phase :	L
Test Voltage :	AC 230V/50Hz		



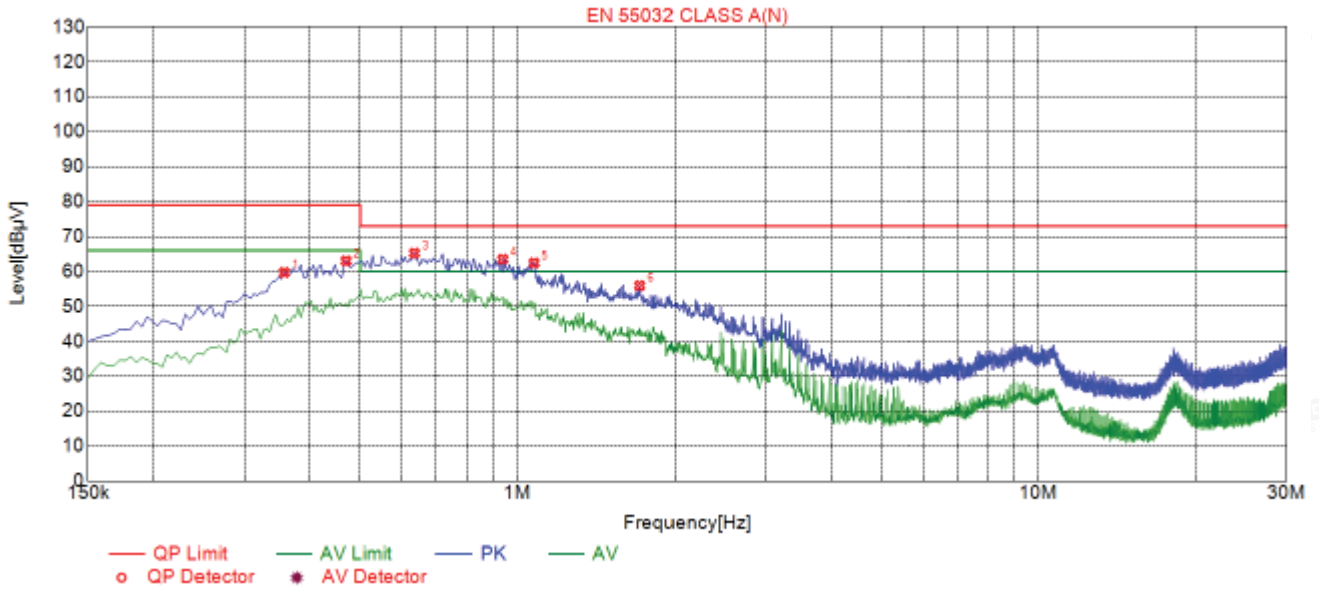
Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.3165	59.46	19.79	79.00	19.54	39.67	PK	L
2	0.4155	63.80	19.82	79.00	15.20	43.98	PK	L
3	0.5460	67.68	19.87	73.00	5.32	47.81	PK	L
4	0.7620	66.73	19.93	73.00	6.27	46.80	PK	L
5	1.1940	61.68	19.91	73.00	11.32	41.77	PK	L
6	1.8330	55.95	20.04	73.00	17.05	35.91	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

EUT :	TeraSci	Model Name. :	SCI-SS-16
Temperature :	23.7 °C	Relative Humidity :	51%
Pressure :	1010hPa	Test Date :	2026-06-16
Test Mode :	Mode 1	Phase :	N
Test Voltage :	AC 230V/50Hz		



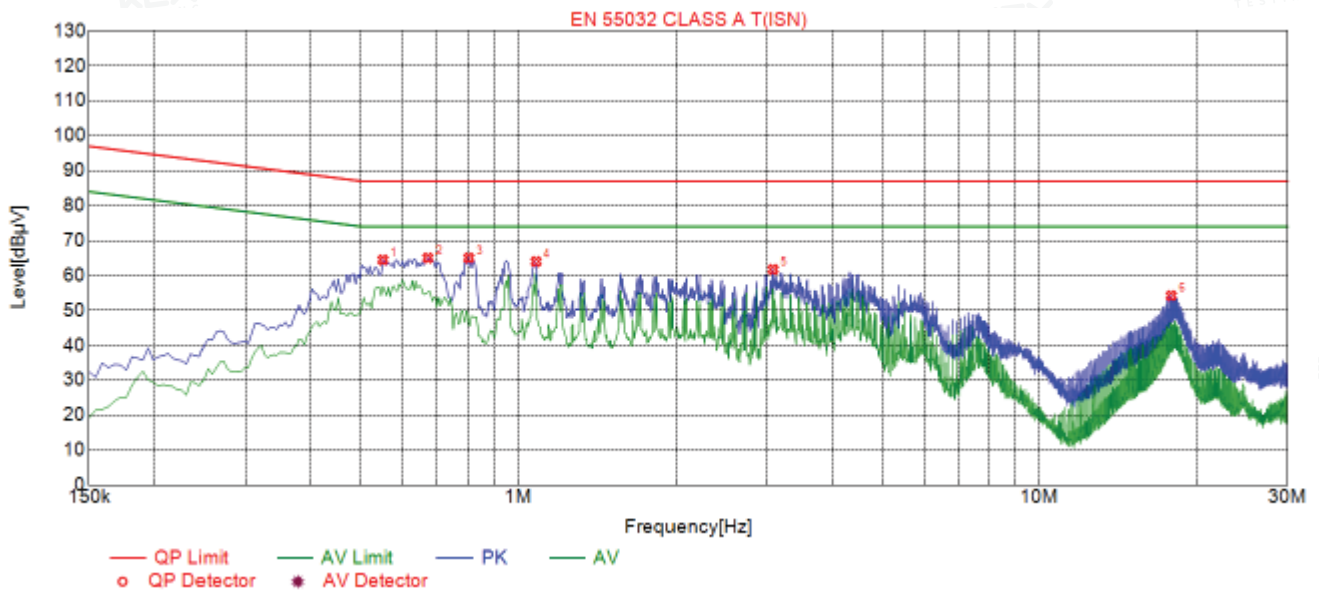
Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.3570	59.73	19.85	79.00	19.27	39.88	PK	N
2	0.4695	63.03	19.93	79.00	15.97	43.10	PK	N
3	0.6360	65.25	19.95	73.00	7.75	45.30	PK	N
4	0.9375	63.49	19.97	73.00	9.51	43.52	PK	N
5	1.0770	62.44	19.99	73.00	10.56	42.45	PK	N
6	1.7205	55.93	20.11	73.00	17.07	35.82	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

EUT :	TeraSci	Model Name. :	SCI-SS-16
Temperature :	23.7 °C	Relative Humidity :	51%
Pressure :	1010hPa	Test Date :	2026-06-16
Test Mode :	Mode 1	Phase :	ISN
Test Voltage :	AC 230V/50Hz		



Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.5505	64.45	19.86	87.00	22.55	44.59	PK	ISN
2	0.6720	65.02	19.85	87.00	21.98	45.17	PK	ISN
3	0.8025	65.01	19.85	87.00	21.99	45.16	PK	ISN
4	1.0815	63.98	19.86	87.00	23.02	44.12	PK	ISN
5	3.0840	61.71	19.88	87.00	25.29	41.83	PK	ISN
6	17.8935	54.20	19.97	87.00	32.80	34.23	PK	ISN

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (30~1000MHz)

FREQUENCY (MHz)	Class A		Class B	
	At 10m	At 3m	At 10m	At 3m
	dBuV/m	dBuV/m	dBuV/m	dBuV/m
30 ~ 230	40	50	30	40
230 ~ 1000	47	57	37	47

3.2.2 LIMITS OF RADIATED EMISSION MEASUREMENT(1000~6000MHz)

FREQUENCY (MHz)	Class A (at 3m) dBuV/m		Class B (at 3m) dBuV/m	
	Peak	Avg	Peak	Avg
1000 ~ 6000	80	60	74	54

Notes:

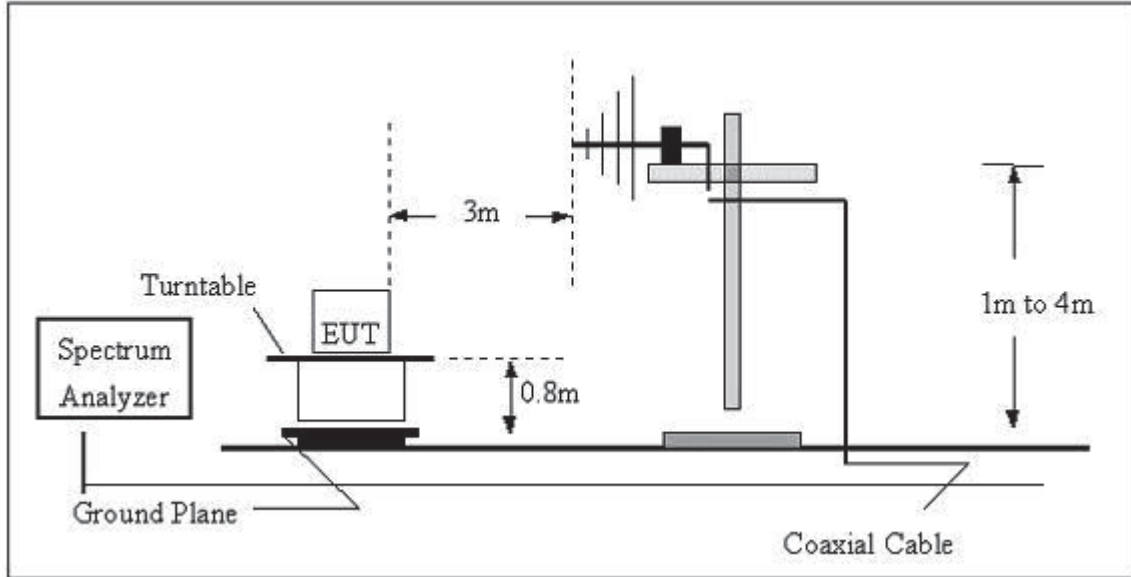
- (1) The tighter limit applies at the band edges.

3.2.3 TEST PROCEDURE

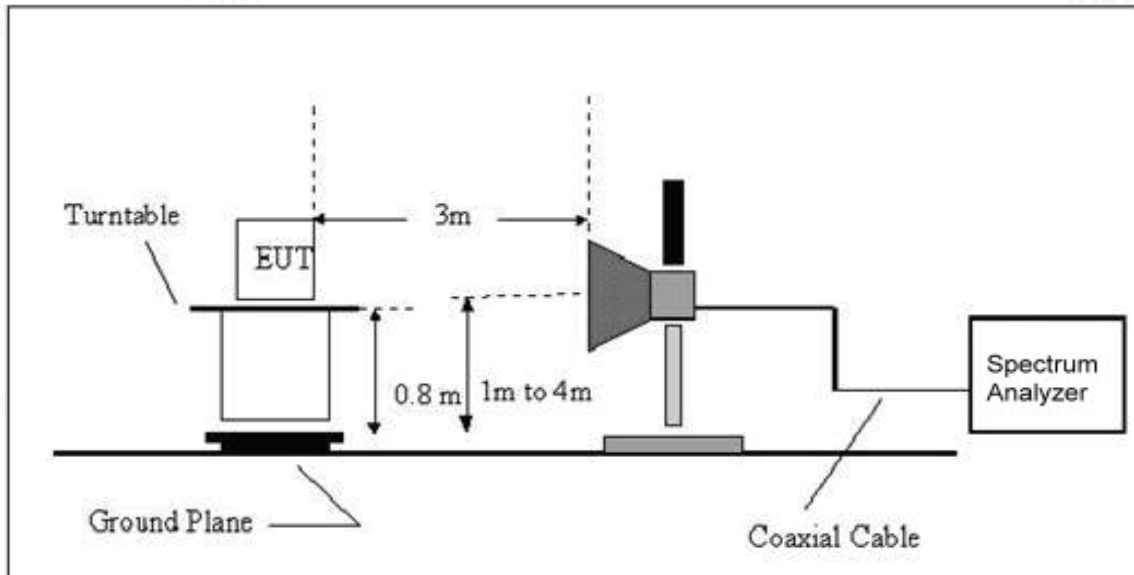
- a. The measured distance is 3m.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency(30~1000MHz)



(B) Radiated Emission Test Set-Up Frequency(1000~6000MHz)

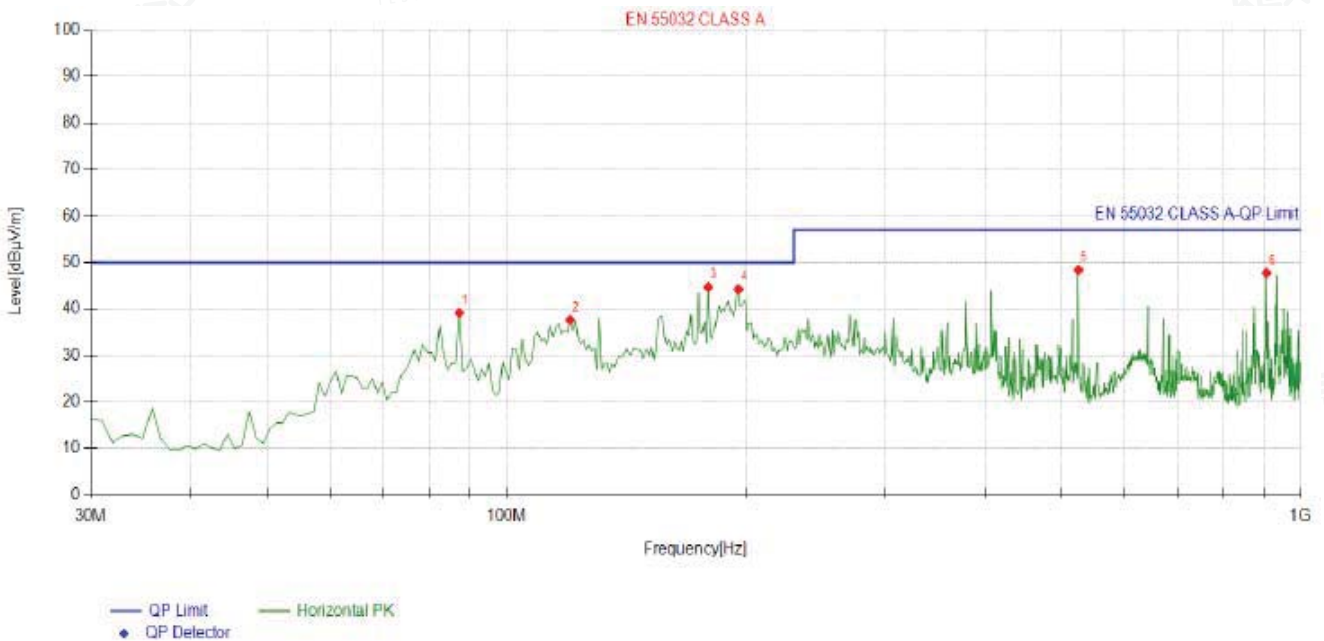


3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS(30~1000MHz)

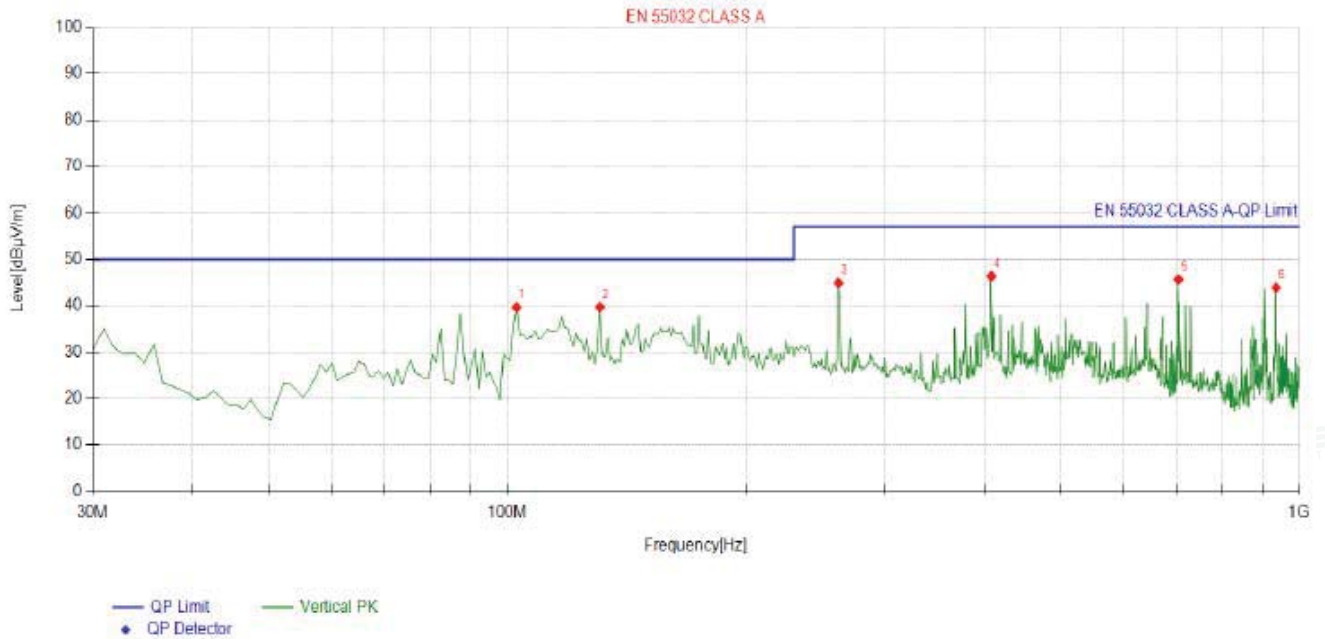
EUT :	TeraSci	Model Name :	SCI-SS-16
Temperature :	23.7 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Date :	2026-06-16
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	AC 230V/50Hz		



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	87.287287	-22.69	61.85	39.16	50.00	10.84	100	77	Horizontal
2	120.3003	-20.57	58.22	37.65	50.00	12.35	100	98	Horizontal
3	179.52953	-21.08	65.78	44.70	50.00	5.30	100	354	Horizontal
4	196.03603	-22.28	66.53	44.25	50.00	5.75	100	337	Horizontal
5	525.19519	-16.72	65.09	48.37	57.00	8.63	100	113	Horizontal
6	905.81581	-12.67	60.44	47.77	57.00	9.23	100	117	Horizontal

Remark: Factor = Cable loss + Antenna factor – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level;

EUT :	TeraSci	Model Name :	SCI-SS-16
Temperature :	23.7 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Date :	2026-06-16
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	AC 230V/50Hz		

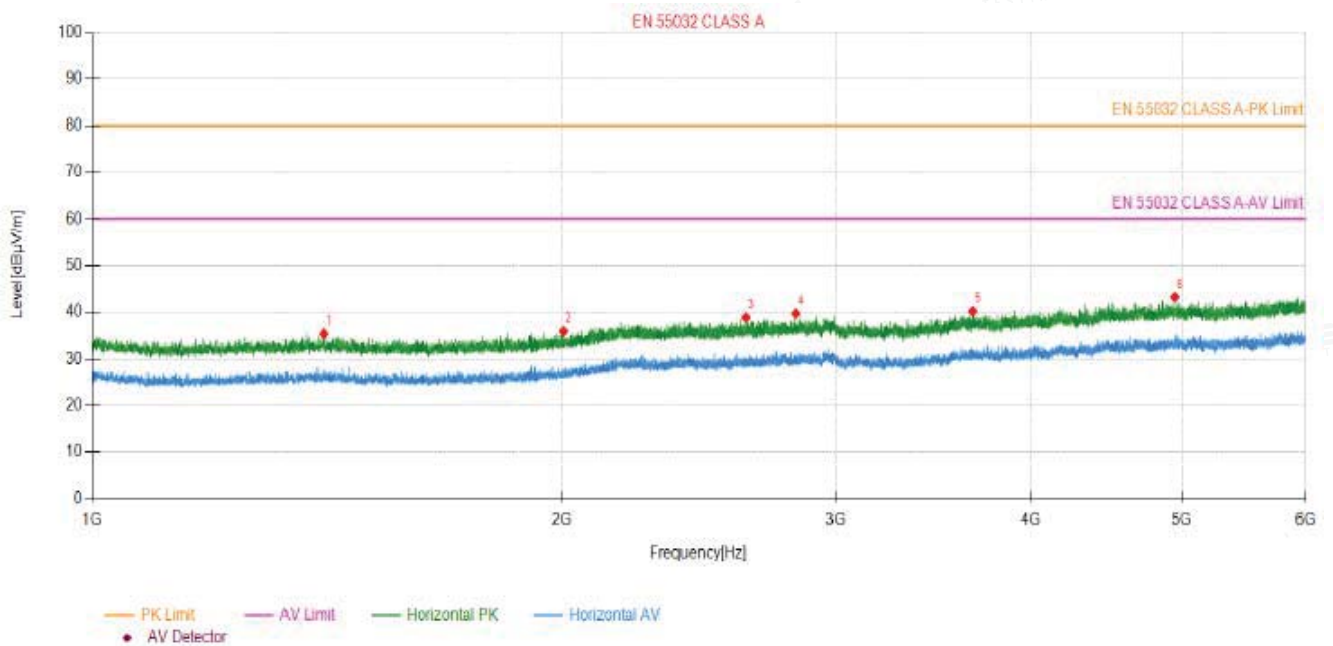


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	102.82282	-21.75	61.36	39.61	50.00	10.39	100	298	Vertical
2	130.98098	-20.30	59.99	39.69	50.00	10.31	100	165	Vertical
3	262.06206	-20.70	65.64	44.94	57.00	12.06	100	307	Vertical
4	408.67867	-18.23	64.63	46.40	57.00	10.60	100	15	Vertical
5	703.85385	-14.37	60.05	45.68	57.00	11.32	100	273	Vertical
6	934.94494	-12.42	56.32	43.90	57.00	13.10	100	319	Vertical

Remark: Factor = Cable loss + Antenna factor – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level;

3.2.7 TEST RESULTS(1000~6000MHz)

EUT :	TeraSci	Model Name :	SCI-SS-16
Temperature :	23.7 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Date :	2026-06-16
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	AC 230V/50Hz		

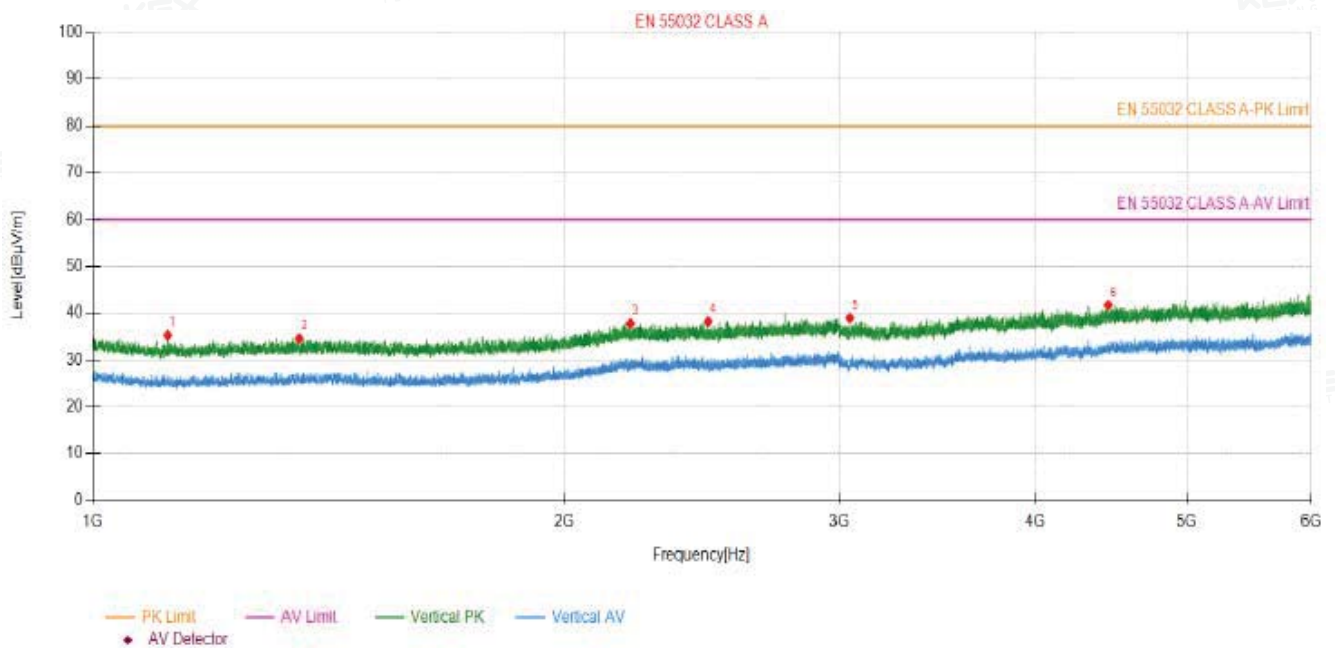


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1407.6407	-18.05	53.47	35.42	80.00	44.58	100	260	Horizontal
2	2005.9005	-16.87	52.81	35.94	80.00	44.06	100	80	Horizontal
3	2627.1627	-14.32	53.20	38.88	80.00	41.12	100	290	Horizontal
4	2826.5826	-13.51	53.23	39.72	80.00	40.28	100	30	Horizontal
5	3672.3672	-12.30	52.51	40.21	80.00	39.79	100	320	Horizontal
6	4947.4947	-9.37	52.68	43.31	80.00	36.69	100	0	Horizontal

Final Data List

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

EUT :	TeraSci	Model Name :	SCI-SS-16
Temperature :	23.7 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Date :	2026-06-16
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	AC 230V/50Hz		



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1116.2116	-19.18	54.49	35.31	80.00	44.69	100	170	Vertical
2	1354.0354	-18.21	52.82	34.61	80.00	45.39	100	360	Vertical
3	2204.5204	-14.68	52.52	37.84	80.00	42.16	100	230	Vertical
4	2471.7471	-14.68	52.90	38.22	80.00	41.78	100	20	Vertical
5	3043.8043	-13.76	52.76	39.00	80.00	41.00	100	230	Vertical
6	4452.7452	-10.60	52.35	41.75	80.00	38.25	100	220	Vertical

Final Data List

Remark: Factor = Cable loss + Antenna factor – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level;

3.3 HARMONICS CURRENT

3.3.1 LIMITS OF HARMONICS CURRENT

Table 1 – Limits for Class A equipment

Harmonic order <i>h</i>	Maximum permissible harmonic current A
Odd harmonics	
3	2,30
5	1,14
7	0,77
9	0,40
11	0,33
13	0,21
$15 \leq h \leq 39$	$0,15 \frac{15}{h}$
Even harmonics	
2	1,08
4	0,43
6	0,30
$8 \leq h \leq 40$	$0,23 \frac{8}{h}$

Table 3 – Limits for Class D equipment

Harmonic order <i>h</i>	Maximum permissible harmonic current per watt mA/W	Maximum permissible 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
$13 \leq h \leq 39$ (odd harmonics only)	$\frac{3,85}{h}$	See Table 1

3.3.2 TEST PROCEDURE

a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions.

b. The classification of EUT is according to section 5 of EN IEC 61000-3-2. The EUT is classified as follows:

Class A: Equipment not specified as belonging to Class B,C or D shall be considered as Class A equipment.

Class B: Portable tools;

Arc welding equipment which is not professional equipment.

Class C: Lighting 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;

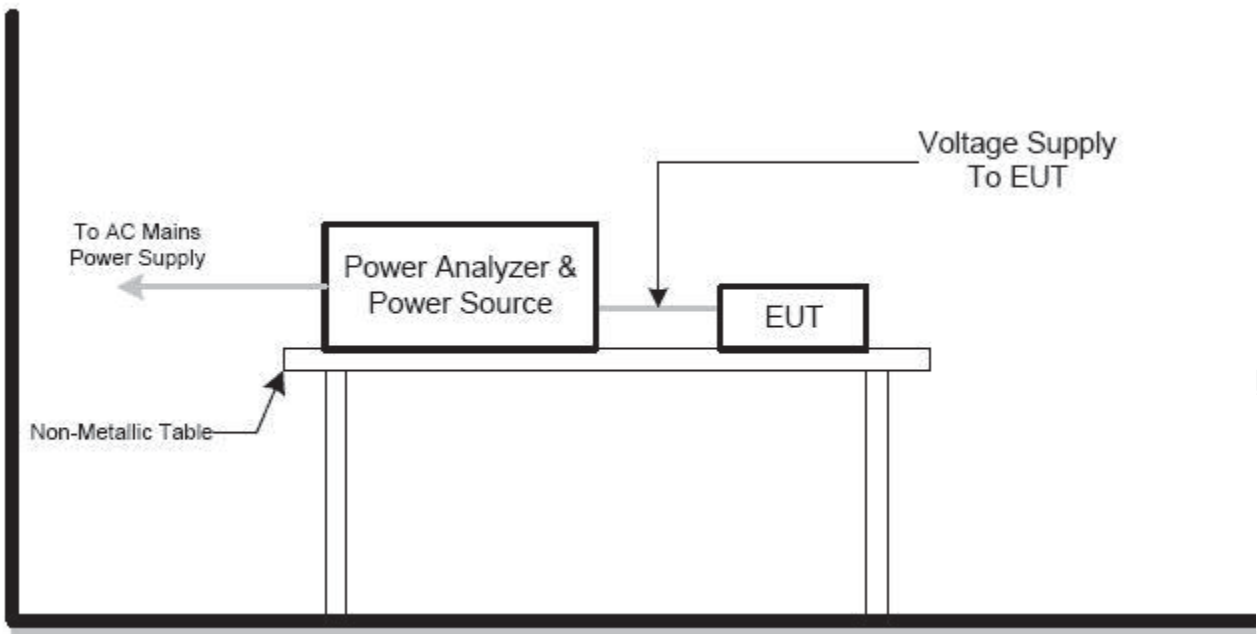
Television receivers.

c. 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 time necessary for the EUT to be exercised.

3.3.3 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.3.4 TEST SETUP

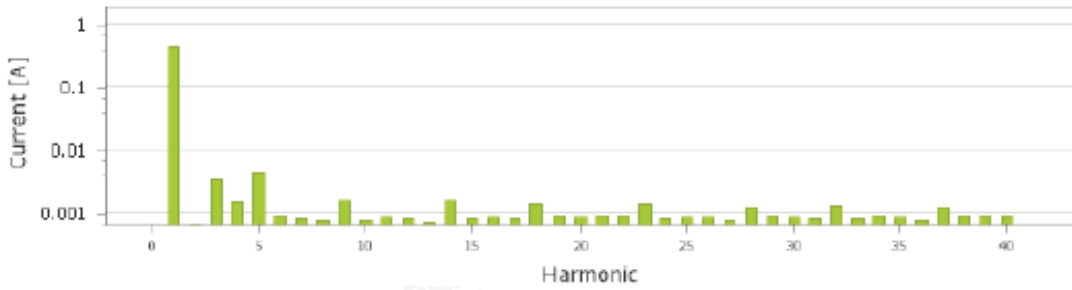


3.3.5 TEST RESULTS

EUT :	TeraSci	Model Name :	SCI-SS-16
Temperature :	23.5 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Date :	2026-06-16
Test Mode :	Mode 1		
Test Power :	AC 230V/50Hz		
Test Result:	Pass		

Average and Maximum harmonic current results									
Hn	Average (100% / 150% *)				Maximum (150%)				Harmonic Result
	Ieff [A]	of Limit [%]	Limit [A]	Result	Ieff [A]	of Limit [%]	Limit [A]	Result	
1	0.471				0.471				
2	0.001				0.001				
3	0.003	0.877	0.372	n/a	0.004	0.632	0.558	n/a	n/a
4	0.001				0.002				
5	0.004	2.082	0.208	n/a	0.005	1.501	0.312	n/a	n/a
6	0.001				0.001				
7	0.001	0.672	0.109	n/a	0.001	0.502	0.164	n/a	n/a
8	0.001				0.001				
9	0.002	2.823	0.055	n/a	0.002	2.022	0.082	n/a	n/a
10	0.001				0.001				
11	0.001	1.861	0.038	n/a	0.001	1.534	0.057	n/a	n/a
12	0.001				0.001				
13	0.001	2.079	0.032	n/a	0.001	1.573	0.049	n/a	n/a
14	0.001				0.002				
15	0.001	2.530	0.028	n/a	0.001	2.049	0.042	n/a	n/a
16	0.001				0.001				
17	0.001	2.821	0.025	n/a	0.001	2.243	0.037	n/a	n/a
18	0.001				0.001				
19	0.001	3.592	0.022	n/a	0.001	2.895	0.033	n/a	n/a
20	0.001				0.001				
21	0.001	2.532	0.030	n/a	0.001	3.240	0.030	n/a	n/a
22	0.001				0.001				
23	0.001	4.762	0.027	n/a	0.001	5.215	0.027	n/a	n/a
24	0.001				0.001				
25	0.001	3.025	0.025	n/a	0.001	3.474	0.025	n/a	n/a
26	0.001				0.001				
27	0.001	3.019	0.023	n/a	0.001	3.373	0.023	n/a	n/a

28	0.001				0.001				
29	0.001	3.484	0.022	n/a	0.001	4.311	0.022	n/a	n/a
30	0.001				0.001				
31	0.001	3.550	0.020	n/a	0.001	4.175	0.020	n/a	n/a
32	0.001				0.001				
33	0.001	3.898	0.019	n/a	0.001	4.457	0.019	n/a	n/a
34	0.001				0.001				
35	0.001	4.254	0.018	n/a	0.001	4.871	0.018	n/a	n/a
36	0.001				0.001				
37	0.001	6.454	0.017	n/a	0.001	7.501	0.017	n/a	n/a
38	0.001				0.001				
39	0.001	4.647	0.016	n/a	0.001	5.977	0.016	n/a	n/a
40	0.001				0.001				



3.4 VOLTAGE FLUCTUATION AND FLICKERS

3.4.1 LIMITS OF VOLTAGE FLUCTUATION AND FLICKERS

The limits shall be applicable to voltage fluctuations and flicker at the supply terminals of the equipment under test, measured or calculated according to Clause 4 under test conditions described in Clause 6 and Annex A.

Tests made to prove compliance with the limits are considered to be type tests.

The following limits apply:

the value of Pst shall not be greater than 1.0;

the value of P shall not be greater than 0.65;

T_{max} , the accumulated time value of $d(t)$ with a deviation exceeding 3.3 % during a single voltage change at the EUT terminals, shall not exceed 500 ms;

the maximum relative steady-state voltage change, d_c , shall not exceed 3.3 %;

the maximum relative voltage change d_{max} , shall not exceed:

a) 4% without additional conditions;

b) 6% for equipment which is:

switched manually, or

switched automatically more frequently than twice per day, and also has either a delayed restart (the delay being not less than a few tens of seconds), or manual restart, after a power supply interruption.

NOTE The cycling frequency is further limited by the P and P limits. For example: a d_{max} of 6 % producing a rectangular voltage change characteristic twice per hour gives a P of about 0.65.

c) 7% for equipment which is: attended whilst in use (for example: hair dryers, vacuum cleaners, kitchen equipment such as mixers, garden equipment such as lawn mowers, portable tools such as electric drills), or

switched on automatically, or is intended to be switched on manually, no more than twice per day, and also has either a delayed restart (the delay being not less than a few tens of seconds) or manual restart, after a power supply interruption.

In the case of equipment having several separately controlled circuits in accordance with 6.6, limits b) and c) shall apply only if there is delayed or manual restart after a power supply interruption; for all equipment with automatic switching which is energized immediately on restoration of supply after a power supply interruption, limits a) shall apply.

For all equipment with manual switching, limits b) or c) shall apply depending on the rate of switching typical of normal operation.

3.4.2 TEST PROCEDURE

a. Harmonic Current Test:

Test was performed according to the procedures specified in Clause 5.0 of IEC555-2 and/or Sub-clause 6.2 of IEC/EN IEC 61000-3-2 depend on which standard adopted for compliance measurement.

b. Fluctuation and Flickers Test:

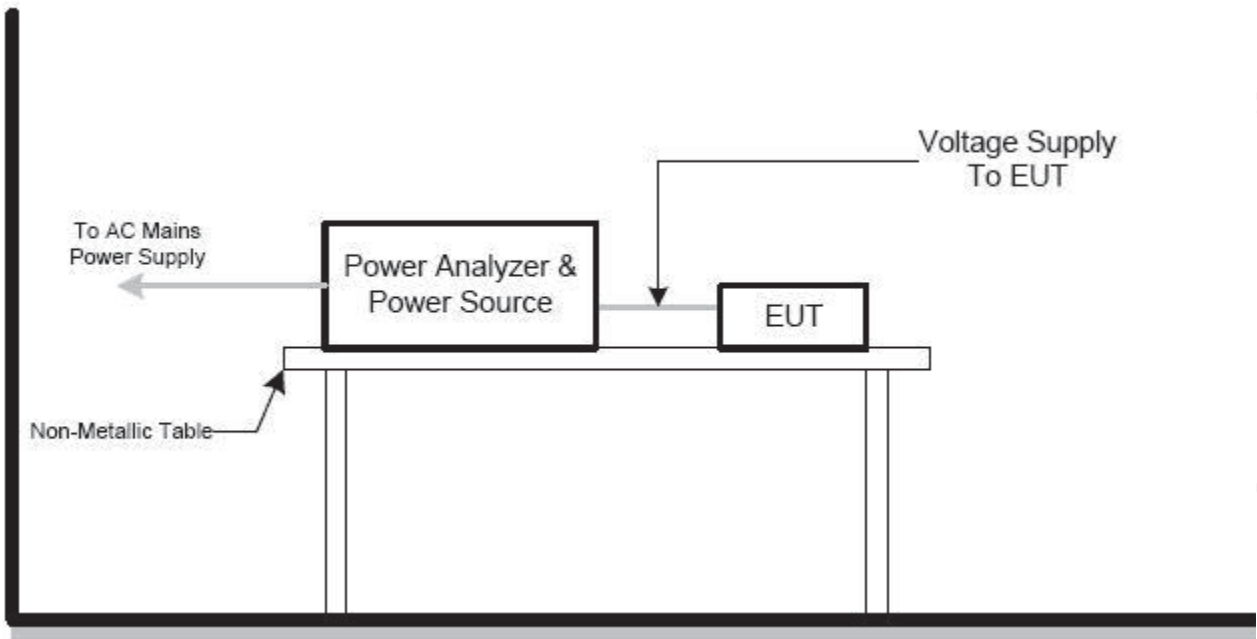
Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 5.0/6.0 of IEC555-3 and/or Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.

c. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

3.4.3 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.4.4 TEST SETUP



3.4.5 TEST RESULTS

EUT :	TeraSci	Model Name :	SCI-SS-16
Temperature :	23.5 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Date :	2026-06-16
Test Mode :	Mode 1		
Test Power :	AC 230V/50Hz		
Test Result:	Pass		

Flicker Measurements					
	P_t	Max P_{st}	Max D_c	Max D_{max}	Max T_{max}
Line 1:	0.012	0.028	0	< 0.2	0
Limits:	0.65	1	3.3	4	0.5
Results:	PASS	PASS	PASS	PASS	PASS



4. EMC IMMUNITY TEST

4.1 STANDARD COMPLIANCE/SEVERITY LEVEL/CRITERIA

Tests Standard No.	TEST SPECIFICATION	Test Mode Test Ports	Perform. Criteria
1. ESD IEC/EN IEC 61000-4-2	8KV air discharge 4KV contact discharge	Direct Mode	B
	4KV HCP discharge 4KV VCP discharge	Indirect Mode	B
2. RS IEC/EN IEC 61000-4-3	80 MHz to 1000 MHz, 1800(±1%)MHz, 2600(±1%)MHz, 3500(±1%)MHz, 5000(±1%)MHz, 1000Hz, 80%, AM modulated	Enclosure	A
3. EFT/Burst IEC/EN 61000-4-4	5/50ns Tr/Th 5kHz Repetition Freq.	Power Supply Port	B
	5/50ns Tr/Th 5kHz Repetition Freq.	CTL/Signal Data Line Port	B
4. Surges IEC/EN 61000-4-5	1.2/50(8/20) Tr/Th us	L-N	B
	1.2/50(8/20) Tr/Th us	L-PE N-PE	B
5 Injected Current IEC/EN IEC 61000-4-6	0.15 MHz to 80 MHz, 1000Hz 80%, AM Modulated 150Ω source impedance	CTL/Signal Port	A
	0.15 MHz to 80 MHz, 1000Hz 80%, AM Modulated 150Ω source impedance	AC Power Port	A
	0.15 MHz to 80 MHz, 1000Hz 80%, AM Modulated 150Ω source impedance	DC Power Port	A
6. Power Frequency Magnetic Field IEC/EN 61000-4-8	50 Hz,	Enclosure	A
7. Volt. Interruptions Volt. Dips IEC/EN IEC 61000-4-11	Voltage dip 100% Voltage dip 30% Interruption 100%	AC Power Port	B C C

4.2 GENERAL PERFORMANCE CRITERIA

According to **EN 55035** standard, the general performance criteria as following:

<p>Criterion A</p>	<p>The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment 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 equipment if used as intended.</p>
<p>Criterion B</p>	<p>During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test. After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment 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), or recovery time, 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 equipment if used as intended.</p>
<p>Criterion C</p>	<p>Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.</p>

4.3 GENERAL PERFORMANCE CRITERIA TEST SETUP

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

4.4 ESD TESTING

4.4.1 TEST SPECIFICATION

Basic Standard:	IEC/EN IEC 61000-4-2
Discharge Impedance:	330 ohm / 150 pF
Required Performance	B
Discharge Voltage:	Air Discharge : 2kV/4kV/8kV (Direct) Contact Discharge : 2kV/4kV (Direct/Indirect)
Polarity:	Positive & Negative
Number of Discharge:	Air Discharge: min. 20 times at each test point Contact Discharge: min. 200 times in total
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

4.4.2 TEST PROCEDURE

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

- a. Contact discharge was applied to conductive surfaces and coupling planes of the EUT. During the test, it was performed with single discharges. For the single discharge time between successive single discharges was at least 1 second. The EUT shall be exposed to at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points. One of the test points shall be subjected to at least 50 indirect discharges to the center of the front edge of the horizontal coupling plane. The remaining three test points shall each receive at least 50 direct contact discharges.

If no direct contact test points are available, then at least 200 indirect discharges shall be applied in the indirect mode. Test shall be performed at a maximum repetition rate of one discharge per second.

Vertical Coupling Plane (VCP):

The coupling plane, of dimensions 0.5m x 0.5m, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the Discharge Electrode touching the coupling plane.

The four faces of the EUT will be performed with electrostatic discharge.

Horizontal Coupling Plane (HCP):

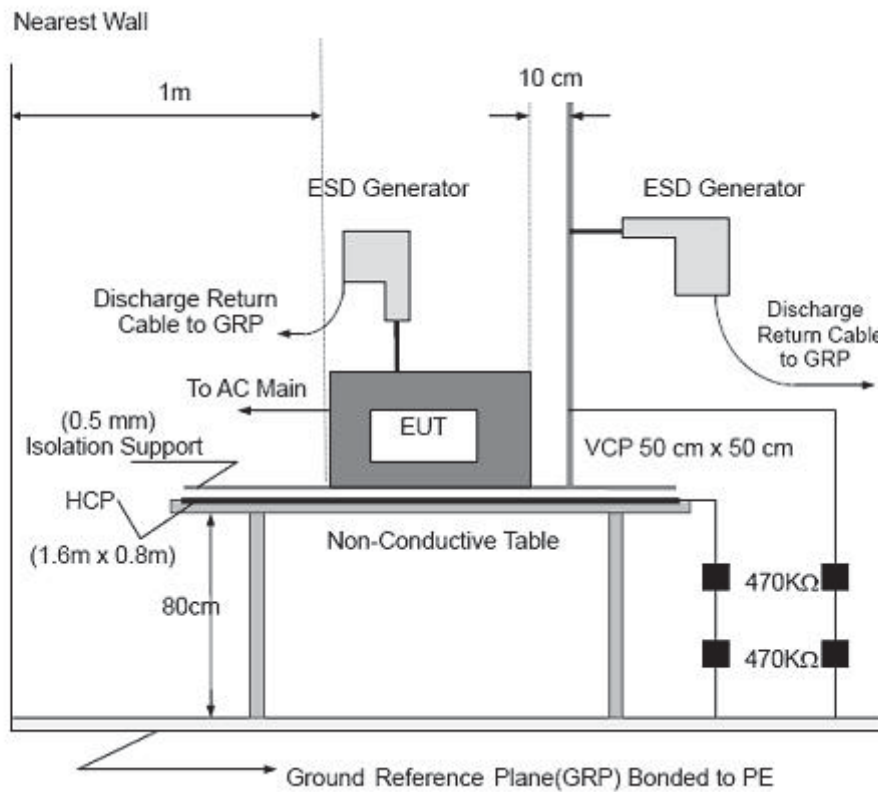
The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane.

The four faces of the EUT will be performed with electrostatic discharge.

- b. Air discharges at insulation surfaces of the EUT.

It was at least ten single discharges with positive and negative at the same selected point.

4.4.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940k total impedance. The equipment under test, was installed in a representative system as described in section 7 of IEC /EN IEC 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of 1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

FLOOR-STANDING EQUIPMENT

The equipment under test was installed in a representative system as described in section 7 of IEC/EN IEC 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of 0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.

4.4.4 TEST RESULTS

EUT :	TeraSci	Model Name :	SCI-SS-16
Temperature :	23.5 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Date :	2026-06-16
Test Mode :	Mode 1		
Test Power :	AC 230V/50Hz		

Mode	Air Discharge								Contact Discharge								Criterion	Result
	4		8		10		15		2		4		6		8			
Test level (kV)																		
Test Location	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
HCP									A	A	A	A						
VCP									A	A	A	A						
Metallic parts									A	A	A	A						
enclosure	A	A	A	A														
slot	A	A	A	A														

Note:

- 1) +/- denotes the Positive/Negative polarity of the output voltage.
- 2) Test condition:
 Direct / Indirect (HCP/VCP) discharges: Minimum 50 times (Positive/Negative) at each point. Air discharges: Minimum 10 times (Positive/Negative) at each point.
- 3) The Indirect (HCP/VCP) discharges description of test point as following:
 1.left side 2.right side 3.front side 4.rear side
- 4) N/A - denotes test is not applicable in this test report

4.5 RS TESTING

4.5.1 TEST SPECIFICATION

Basic Standard:	IEC/EN IEC 61000-4-3
Required Performance	A
Frequency Range:	80 MHz - 1000 MHz, 1800(±1%)MHz, 2600(±1%)MHz, 3500(±1%)MHz, 5000(±1%)MHz
Field Strength:	3 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m
Antenna Height:	1.5 m
Dwell Time:	at least 3 seconds

4.5.2 TEST PROCEDURE

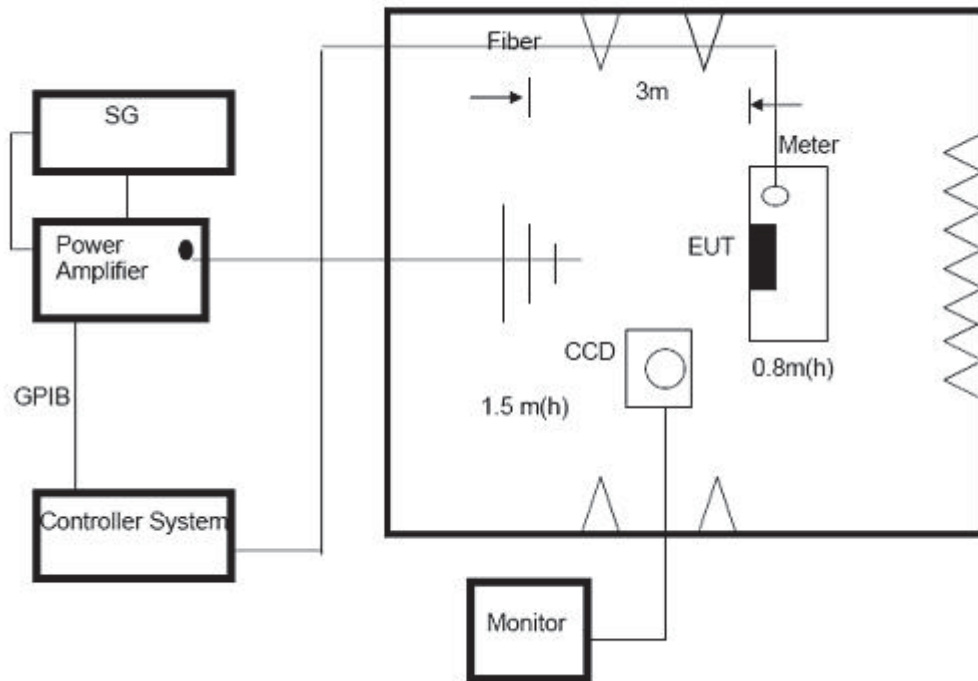
The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.

The testing distance from antenna to the EUT was 3 meters.

The other condition as following manner:

- a. The frequency range is swept from 80 MHz - 1000 MHz, 1800(±1%)MHz, 2600(±1%)MHz, 3500(±1%)MHz, 5000(±1%)MHz with the signal 80%amplitude modulated with a 1kHz sine wave. Where the frequency range is swept incrementally. the step size shall not exceed 1 % of the preceding frequency.
- b. The dwell time of the modulated carrier at each frequency shall not be less than the time necessary for the EUT to be exercised and to respond, but shall in no case be less than 0.5 s.
- c. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

4.5.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN IEC 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN IEC 61000-4-3 was placed on a non-conductive wood support 0.1 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

4.5.4 TEST RESULTS

EUT :	TeraSci	Model Name :	SCI-SS-16
Temperature :	23.5 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Date :	2026-06-16
Test Mode :	Mode 1		
Test Power :	AC 230V/50Hz		

Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Perform. Criteria	Results	Judgment
80-1000, 1800 (±1%), 2600 (±1%), 3500 (±1%), 5000 (±1%)	H / V	3 V/m (rms) AM Modulated 1000Hz, 80%	Front	A	A	PASS
			Rear			
			Left			
			Right			

Note:

- 1) N/A - denotes test is not applicable in this test report.
- 2) Criteria A: There was no change operated with initial operating during the test.
- 3) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 4) Criteria C: The system shut down during the test.

4.6 EFT/BURST TESTING

4.6.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-4
Required Performance	B
Test Voltage:	Power Line : 1 kV Signal/Control Line : 0.5 KV
Polarity:	Positive & Negative
Impulse Frequency:	5 kHz
Impulse Wave shape :	5/50 ns
Burst Duration:	15 ms
Burst Period:	300 ms
Test Duration:	Not less than 1 min.

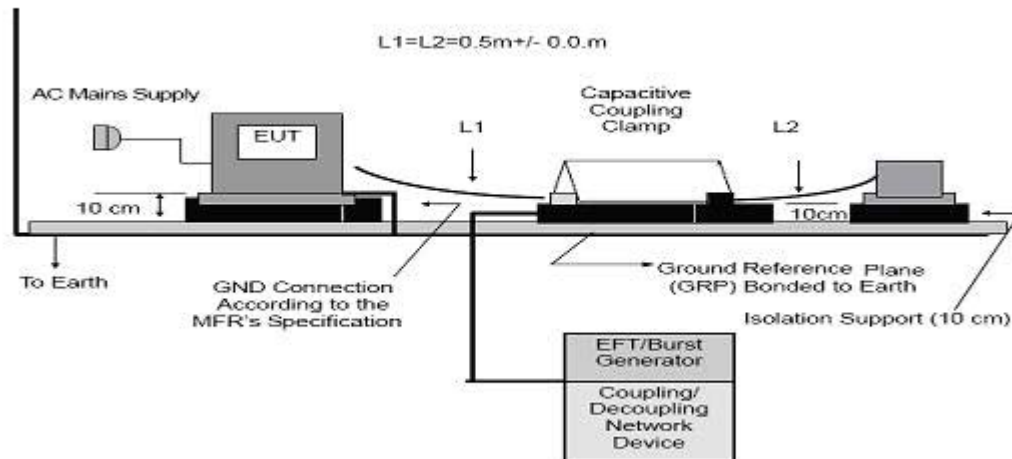
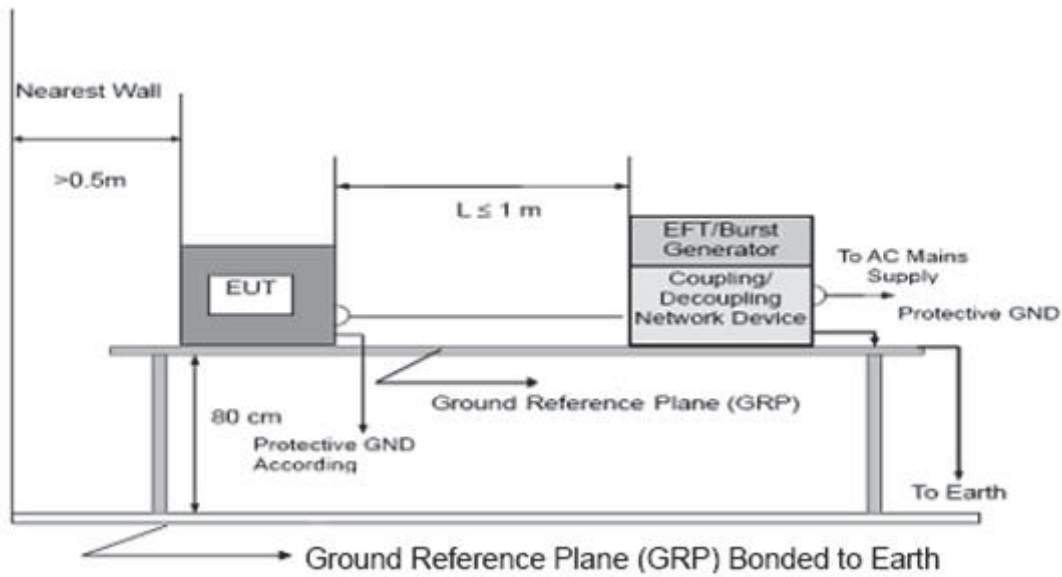
4.6.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.25mm aluminum thickness.

The other condition as following manner:

- a. The length of power cord between the coupling device and the EUT should not exceed 1 meter.
- b. Both positive and negative polarity discharges were applied.
- c. The duration time of each test sequential was 1 minute

4.6.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-4 and its cables, were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.

4.6.4 TEST RESULTS

EUT :	TeraSci	Model Name :	SCI-SS-16
Temperature :	23.7 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Date :	2026-06-16
Test Mode :	Mode 1		
Test Power :	AC 230V/50Hz		

Coupling Line		Test level (kV)								Criterion	Result
		0.5		1		2		4			
		+	-	+	-	+	-	+	-		
AC line	L	A	A	A	A					B	PASS
	N	A	A	A	A						PASS
	PE	A	A	A	A						PASS
	L+N	A	A	A	A						PASS
	L+PE	A	A	A	A						PASS
	N+PE	A	A	A	A						PASS
	L+N+PE	A	A	A	A						PASS
DC Line											
Signal Line		A	A								PASS

Note:

- 1) +/- denotes the Positive/Negative polarity of the output voltage.
- 2) N/A - denotes test is not applicable in this test report
- 3) Criteria A: There was no change operated with initial operating during the test.
- 4) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 5) Criteria C: The system shut down during the test.

4.7 SURGE TESTING

4.7.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-5
Required Performance	B
Wave-Shape:	Combination Wave 1.2/50 us Open Circuit Voltage 8 /20 us Short Circuit Current
Test Voltage:	Power Line : 0.5 kV, 1 kV, 2 kV
Surge Input/Output:	AC Line
Generator Source:	2 ohm between networks
Impedance:	12 ohm between network and ground
Polarity:	Positive/Negative
Phase Angle:	0/90/180/270°
Pulse Repetition Rate:	1 time / min. (maximum)
Number of Tests:	5 positive and 5 negative at selected points

4.7.2 TEST PROCEDURE

a. For EUT power supply:

The surge is to be applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks shall not exceed 2m in length.

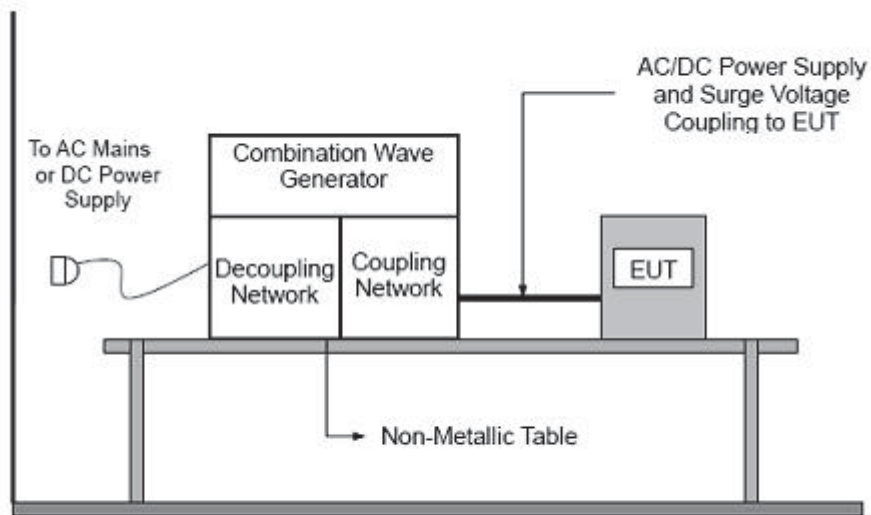
b. For test applied to unshielded unsymmetrical operated interconnection lines of EUT:

The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall not exceed 2m in length.

c. For test applied to unshielded symmetrical operated interconnection /telecommunication lines of EUT:

d. The surge is applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor cannot be specified. The interconnection line between the EUT and the coupling/decoupling networks shall not exceed 2m in length.

4.7.3 TEST SETUP



4.7.4 TEST RESULTS

EUT :	TeraSci	Model Name :	SCI-SS-16
Temperature :	23.7 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Date :	2026-06-16
Test Mode :	Mode 1		
Test Power :	AC 230V/50Hz		

Coupling Line			Test level								Criterion	Result
			0.5 kV		1 kV		2 kV		4 kV			
			+	-	+	-	+	-	+	-		
AC line	L-N	0°									B	PASS
		90°	A		A							
		180°										
		270°		A		A						
	L-PE	0°										
		90°	A		A		A					PASS
		180°										
		270°		A		A		A				
	N-PE	0°										
		90°		A		A		A				PASS
		180°										
		270°	A		A		A					
DC Line												
Signal Line			A	A							PASS	

Note:

- 1) Polarity and Numbers of Impulses : 5 Pst / Ngst at each tested mode
- 2) N/A - denotes test is not applicable in this Test Report
- 3) Criteria A: There was no change operated with initial operating during the test.
- 4) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 5) Criteria C: The system shut down during the test.

4.8 INJECTION CURRENT TESTING

4.8.1 TEST SPECIFICATION

Basic Standard:	IEC/EN IEC 61000-4-6
Required Performance	A
Frequency Range:	0.15-10 MHz, 10-30MHz, 30-80MHz
Field Strength:	3 V r.m.s, 3V to 1V r.m.s, 1V r.m.s
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Dwell Time:	at least 3 seconds

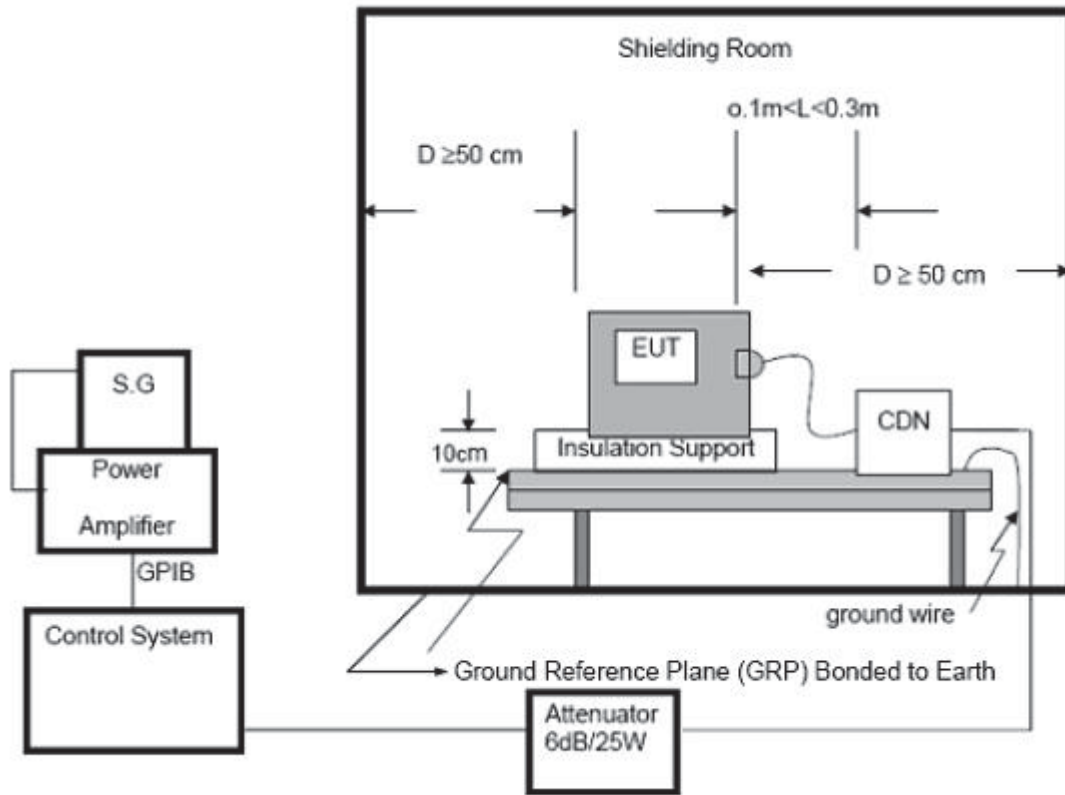
4.8.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1.5m*1m min. and 0.25mm aluminum thickness.

The other condition as following manner:

- a. The frequency range is swept from 150 kHz to 80 MHz, using the signal levels (forward power) established during the setting process, and with the disturbance signal 80 % amplitude modulated with a 1 kHz sine wave, pausing to adjust the RF signal level or to change coupling devices as necessary. Where the frequency is swept incrementally, the step size shall not exceed 1 % of the preceding frequency value. The dwell time of the amplitude modulated carrier at each frequency shall not be less than the time necessary for the EUT to be exercised and to respond, but shall in no case be less than 0.5 s. Potentially sensitive frequencies shall be tested in addition to the maximum 1 % step size.

4.8.3 TEST SETUP



NOTE:

FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.

4.8.4 TEST RESULTS

EUT :	TeraSci	Model Name :	SCI-SS-16
Temperature :	23.7 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Date :	2026-06-16
Test Mode :	Mode 1		
Test Power :	AC 230V/50Hz		

Test Ports (Mode)	Freq. Range (MHz)	Field Strength	Perform. Criteria	Results	Judgment
Input/ Output AC. Power Port	0.15 ---10	3V(rms) AM Modulated 1000Hz, 80%	A	A	PASS
	10 --- 30	3V to 1V(rms) AM Modulated 1000Hz, 80%	A	A	PASS
	30 --- 80	1V(rms) AM Modulated 1000Hz, 80%	A	A	PASS
Input/ Output DC. Power Port	0.15 ---10	3V(rms) AM Modulated 1000Hz, 80%	A	N/A	N/A
	10 --- 30	3V to 1V(rms) AM Modulated 1000Hz, 80%	A	N/A	N/A
	30 --- 80	1V(rms) AM Modulated 1000Hz, 80%	A	N/A	N/A
Signal Line	0.15 ---10	3V(rms) AM Modulated 1000Hz, 80%	A	A	PASS
	10 --- 30	3V to 1V(rms) AM Modulated 1000Hz, 80%	A	A	PASS
	30 --- 80	1V(rms) AM Modulated 1000Hz, 80%	A	A	PASS

Note:

- 1) N/A - denotes test is not applicable in this Test Report.
- 2) Criteria A: There was no change operated with initial operating during the test.
- 3) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 4) Criteria C: The system shut down during the test.

4.9 POWER FREQUENCY MAGNETIC FIELD TESTING

4.9.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-8
Required Performance	A
Frequency Range:	50Hz
Field Strength:	1 A/m
Observation Time:	1 minute
Inductance Coil:	Rectangular type, 1mx1m

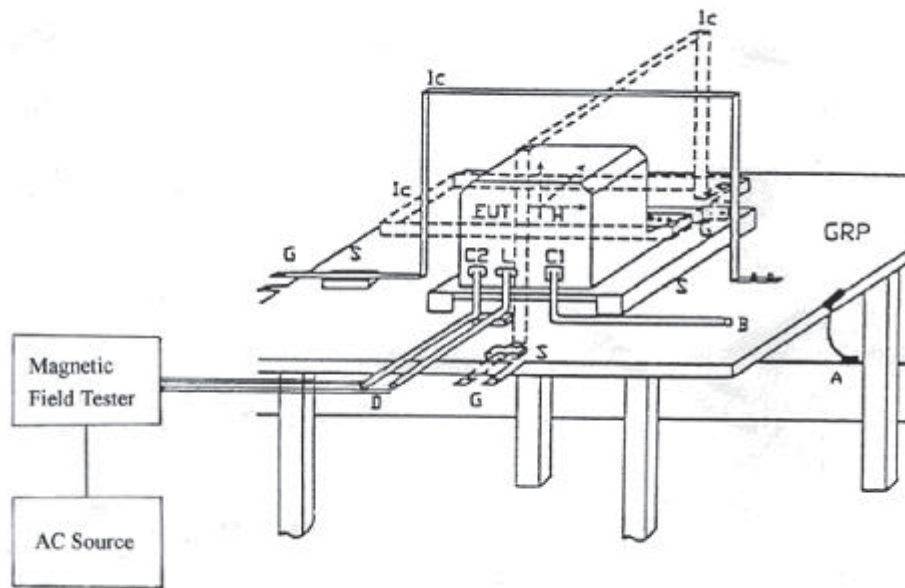
4.9.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.25mm aluminum thickness.

The other condition as following manner:

- a. The equipment cabinets shall be connected to the safety earth directly on the GRP via the earth terminal of the EUT.
- b. The cables supplied or recommended by the equipment manufacturer shall be used 1 meter of all cables used shall be exposed to the magnetic field.

4.9.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The equipment shall be subjected to the test magnetic field by using the induction coil of standard dimension (1 m x 1 m). The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.

FLOOR-STANDING EQUIPMENT

The equipment shall be subjected to the test magnetic field by using induction coils of suitable dimensions. The test shall be repeated by moving and shifting the induction coils, in order to test the whole volume of the EUT for each orthogonal direction. The test shall be repeated with the coil shifted to different positions along the side of the EUT, in steps corresponding to 50 % of the shortest side of the coil. The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.

4.9.4 TEST RESULTS

EUT :	TeraSci	Model Name :	SCI-SS-16
Temperature :	N/A	Relative Humidity :	N/A
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A		
Test Power :	N/A		
Note: EUT is not belong containing devices intrinsically susceptible equipment, so this test report is not applicable.			

4.10 VOLTAGE INTERRUPTION/DIPS TESTING

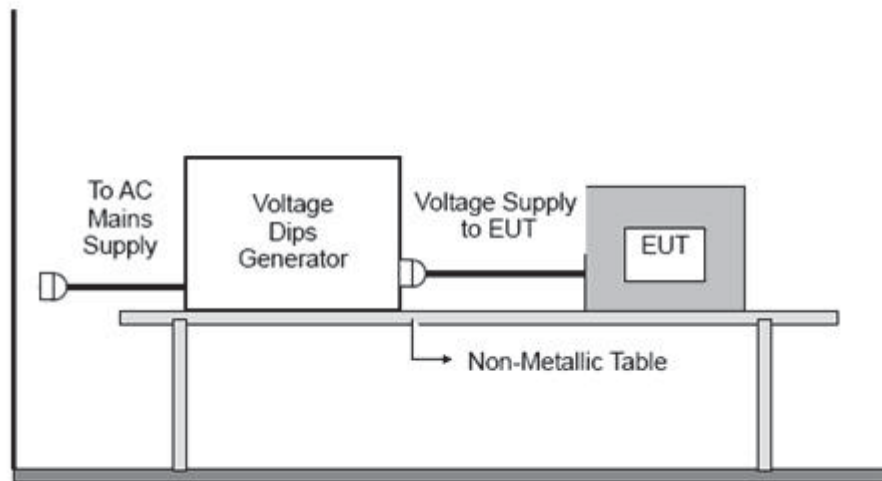
4.10.1 TEST SPECIFICATION

Basic Standard:	IEC/EN IEC 61000-4-11
Required Performance	B (For 100% Voltage Dips) C (For 30% Voltage Dips) C (For 100% Voltage Interruptions)
Test Duration Time:	Minimum three test events in sequence
Interval between Event:	Minimum ten seconds
Phase Angle:	0°/45°/90°/135°/180°/225°/270°/315°/360°
Test Cycle:	3 times

4.10.2 TEST PROCEDURE

The EUT shall be tested for each selected combination of test level and duration with a sequence of three dips/interruptions with intervals of 10 s minimum (between each test event). Each representative mode of operation shall be tested.

4.10.3 TEST SETUP



4.10.4 TEST RESULTS

EUT :	TeraSci	Model Name :	SCI-SS-16
Temperature :	23.7 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Date :	2026-06-16
Test Mode :	Mode 1		
Test Power :	AC 230V/50Hz		

Interruption & Dips	Duration (T)	Perform Criteria	Results	Judgment
Voltage dip 100%	0.5	B	A	PASS
Voltage dip 30%	25	C	A	PASS
Voltage dip 100%	250	C	C	PASS

Note:

- 1). N/A - denotes test is not applicable in this test report.
- 2) Criteria A: There was no change operated with initial operating during the test.
- 3) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 4) Criteria C: The system shut down during the test.

5. EUT TEST PHOTO

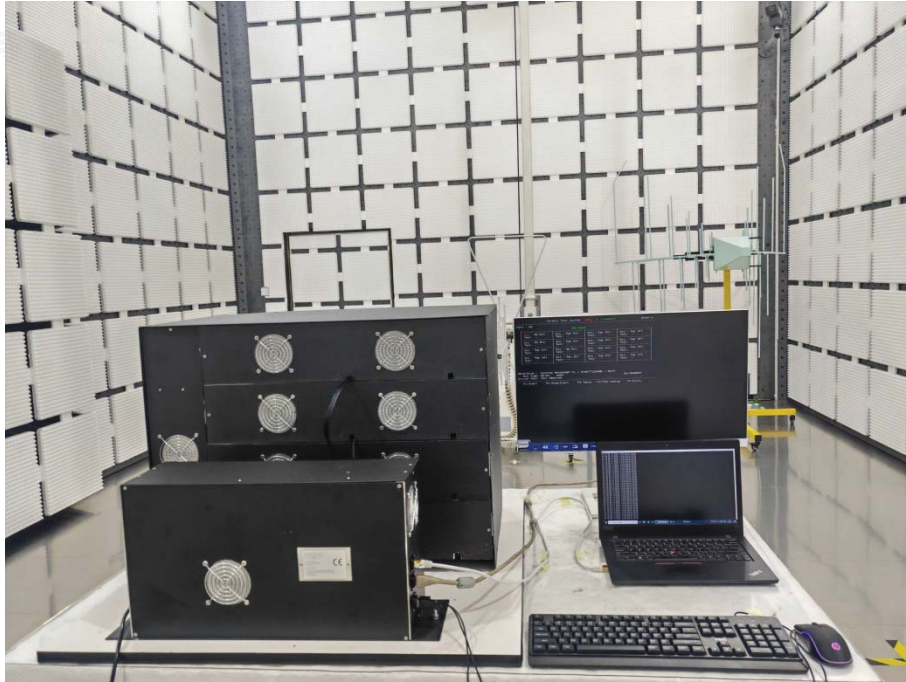
Conducted Emission



Conducted Emission (Telecommunication port)



Radiated Emission



Harmonics & Flicker



Electrostatic Discharge



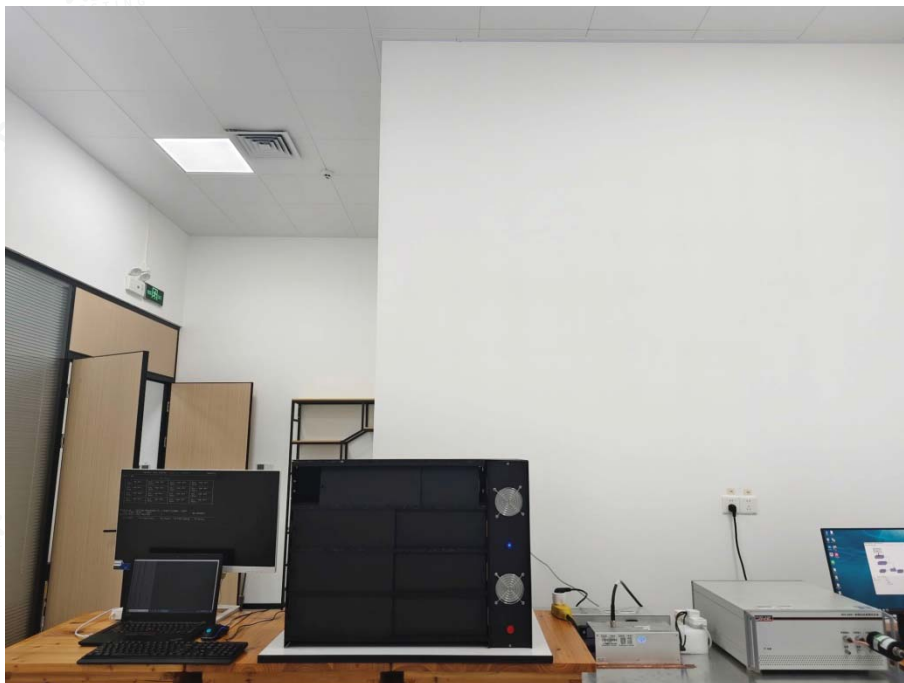
RF electromagnetic field



EFT & Surge & Voltage Dips



Injected Current



ATTACHMENT PHOTOGRAPHS OF EUT

Photo 1



Photo 2



Photo 3



Photo 4

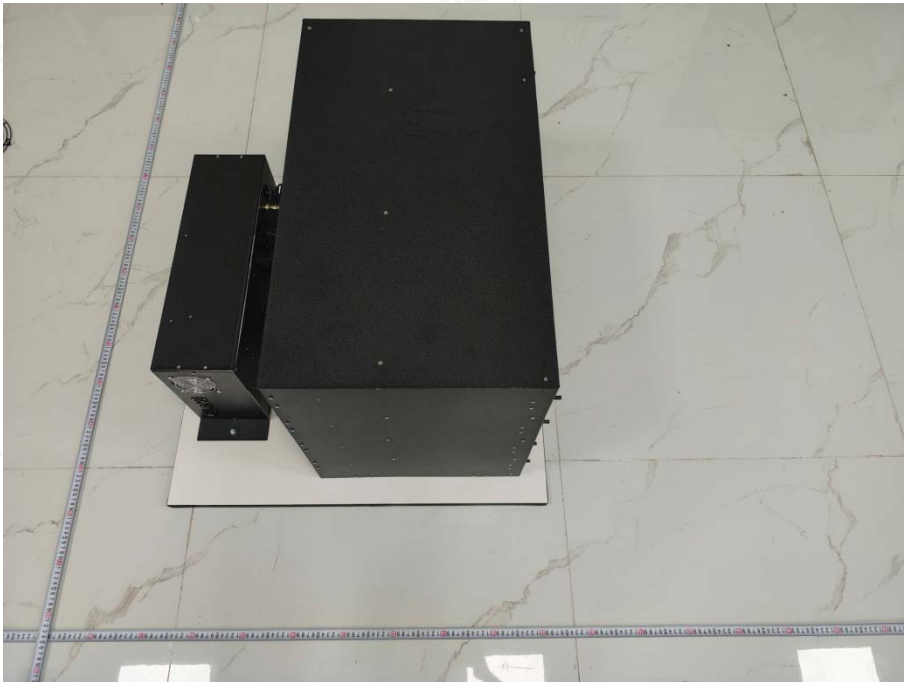


Photo 5



Photo 6



Photo 7



Photo 8



Photo 9



Photo 10



Photo 11

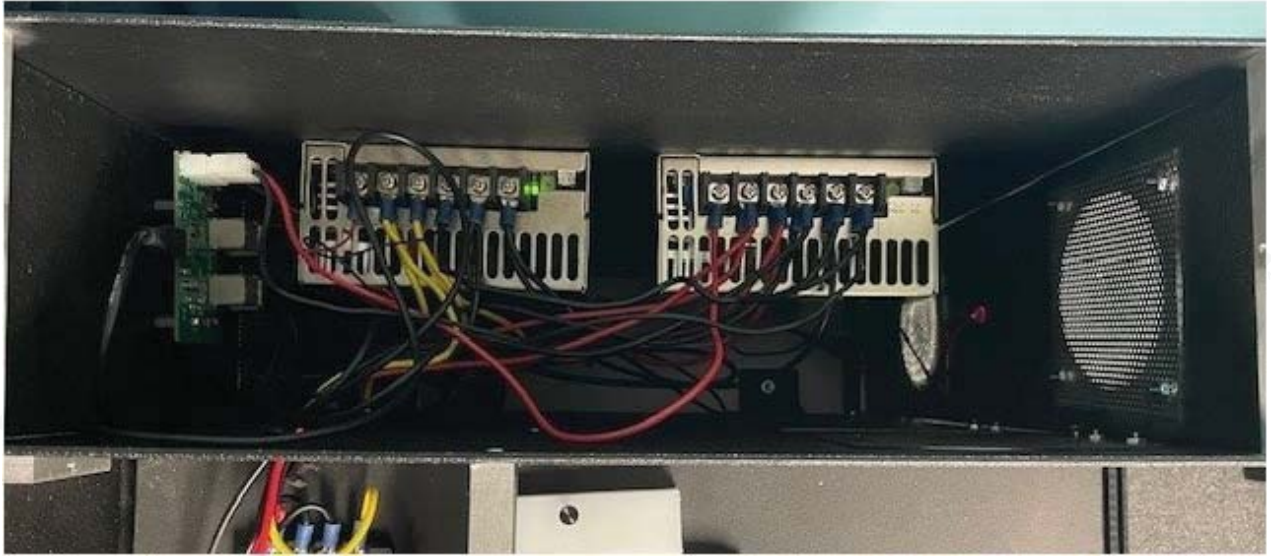


Photo 12



Photo 13

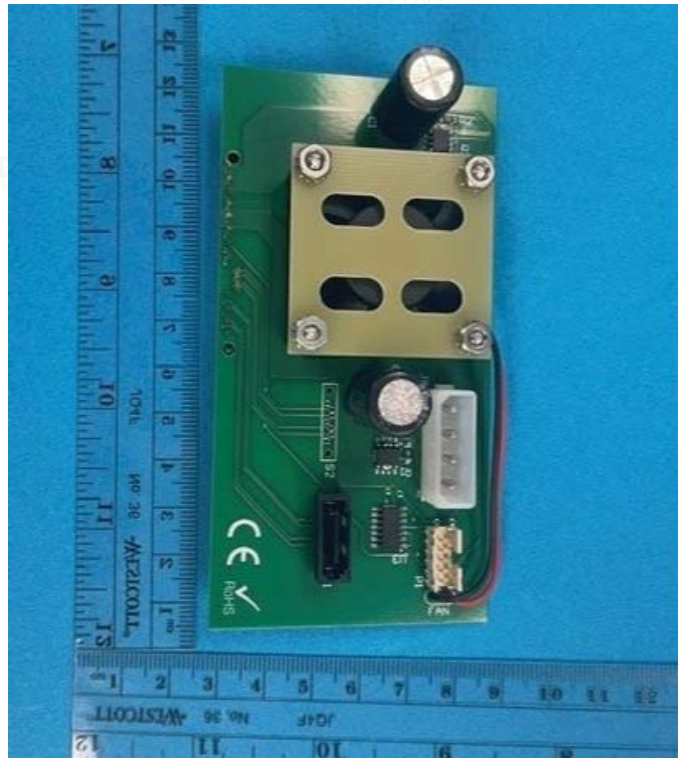


Photo 14

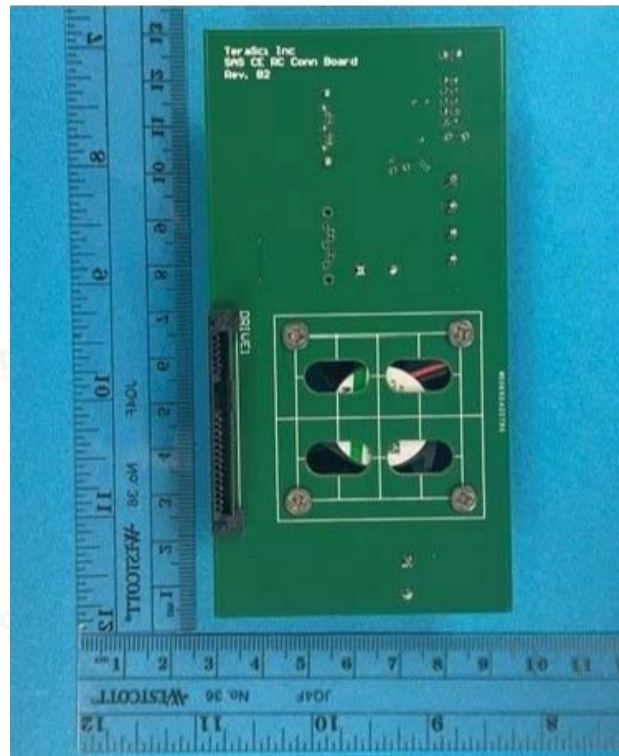


Photo 15



Photo 16



Photo 17

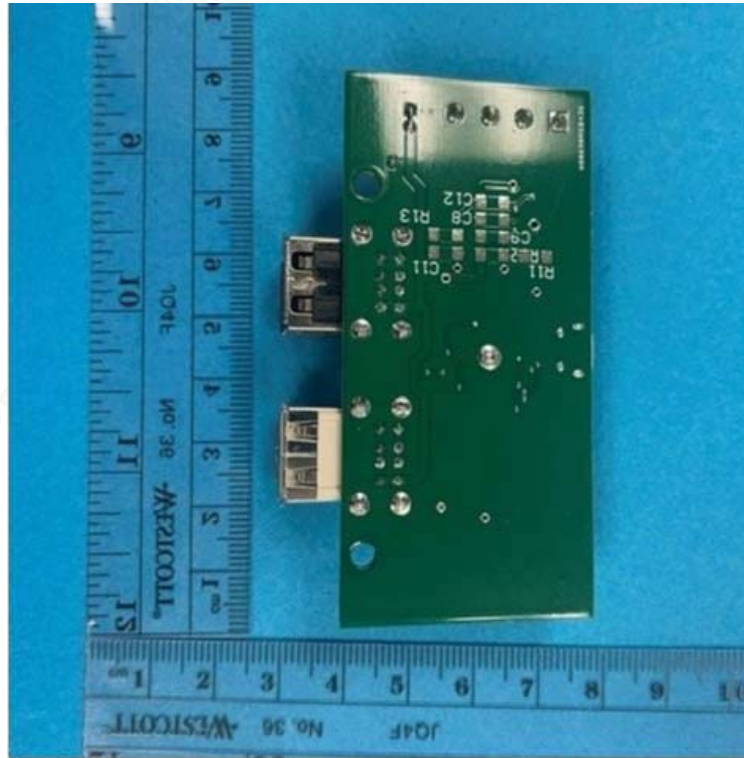


Photo 18

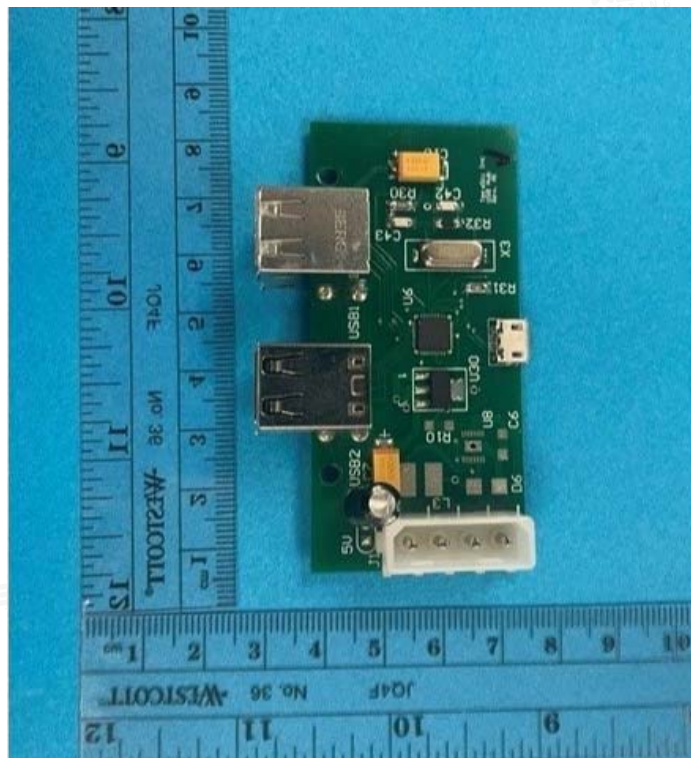


Photo 19

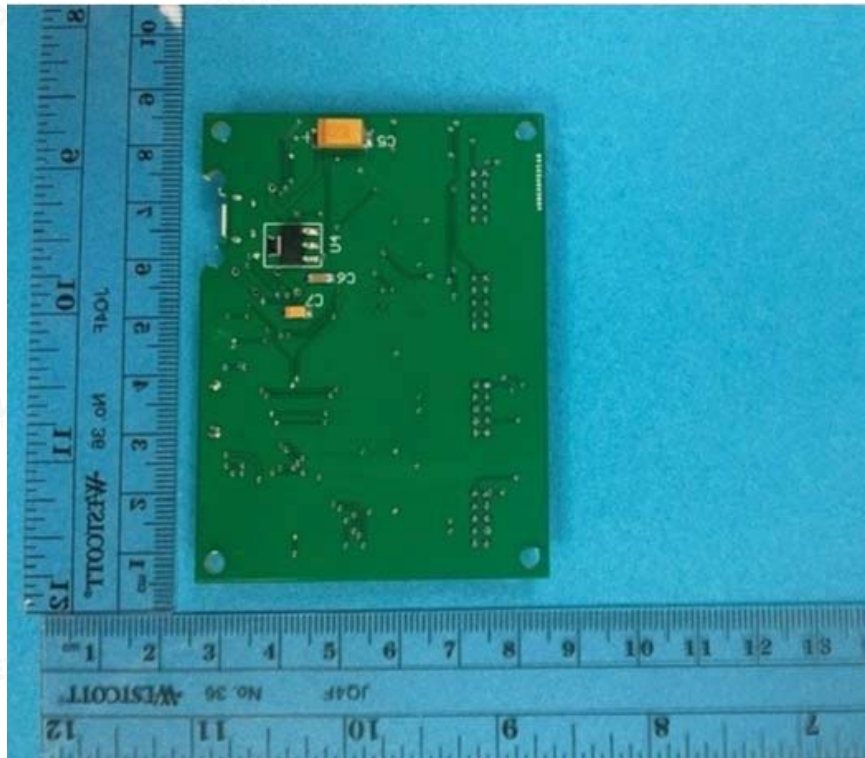
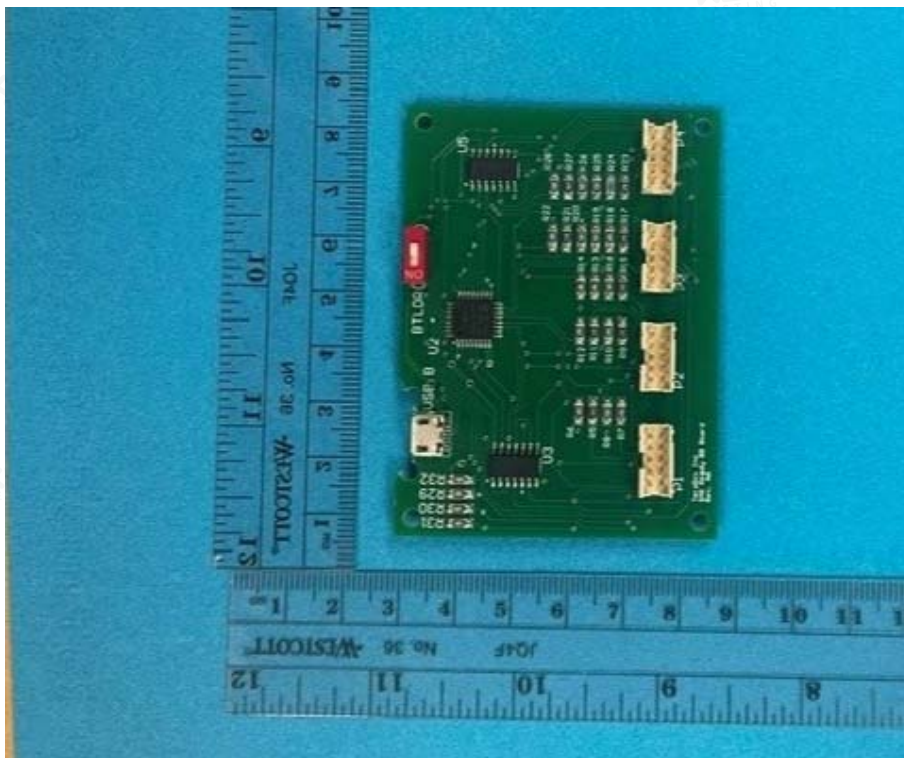


Photo 20



-----End of report-----