

TEST REPORT

Test Report No.: T210722D10-E Applicant: PERFECTRON CO., LTD. TAIWAN BRANCH Address: 2F., No.190, Sec. 2, Zhongxing Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.) Manufacturer: PERFECTRON CO.,LTD. TAIWAN BRANCH Address: 2F., No.190, Sec. 2, Zhongxing Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.) **Equipment Under Test (EUT):** Name: Substation Fanless Computer Brand Name: PERFECTRON CO.,LTD. Model No.: SCH-401 Added Model(s): N/A

Standards:

BS EN 55032: 2015 / A11: 2020
BS EN IEC 61000-3-2: 2019
BS EN 61000-3-3: 2013
BS EN 55035: 2017 / A11: 2020
IEC 61000-4-6: 2013 + COR1: 2015
IEC 61000-4-8: 2009
IEC 61000-4-11: 2004 + A1: 2017
-

Date of Sample Receipt : July 22, 2021

- Date of Test
- : July 22, 2021 & July 30, 2021

Date of Issue

: September 23, 2021

Remarks:

This test report can be used for CE and UKCA marking application which is based on equivalent requirements between UK and EU. It is appropriate using designated standards to provide presumption of conformity with GB law.

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Disclaimer

Variants information between/among model numbers / trademarks is provided by the applicant, test results of this test report are applicable to the sample EUT received of main test model name.

Approved By

Sam Hu (Assistant Manager)

Date

September 23, 2021

Testing Laboratory 1108

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History				
Revision	Revision Report Number Description Issue Date			
00	T210722D10-E	Original.	September 23, 2021	

Note:



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1.General Description

1.1 General Description of EUT

Name of EUT	Substation Fanless Computer	
Brand Name	PERFECTRON CO.,LTD.	
Model No.(s)	SCH-401	
Added Model(s)	N/A	

1.2 Details of EUT

IELLI POWER Rating	Input : 67.2~143V Output : 12V
Highest internal frequency	1800MHz

Accessories Cable List

Cable Type	Core	Length	Category	Shielding/Non-shielding



1.3 Description of Support Units

EUT Devices

No.	Equipment	Model No.	Brand Name
1	Motherboard	X12SCZ-F	SuperMicro
2	CPU (1.8GHz)	Intel i9-10900TE	Intel
3	Memory (8GB)	M378A1K43CB2-CTD	Samsung
4	Storage (1TB)	SP010TISSD355SE0	Silicon Power
5	Power Supply X2	RSD-200D-12	Meanwell

Peripherals Devices

No.	PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
1~4	USB HDD	Transcend	TS1TSJ25MC	N/A
5	USB Mouse	Logitech	M-U0026	N/A
6	USB Keyboard	Logitech	Y-U0011	N/A
7	Monitor	ASUS	PA248Q	N/A
8	Monitor	ASUS	PA248Q	N/A
9~10	Monitor	ASUS	PA248Q	N/A
11	Hub	D-Link	DGS-1008D	N/A
12	Server PC	Lenovo	P300	PC011V37
13~14	DC Power Supply	IDRC	DSP-150-010HD	N/A

Support Equipment Used in Tested Cable

No.	Cable Type	Core	Length	Shielding/Non-shielding
1~4	USB	N/A	1.0m	Shielded
5~6	USB	N/A	1.8m	Shielded
7	DVI	N/A	1.8m	Shielded
8	VGA	2 Cores	1.6m	Shielded
9~10	DP	N/A	1.8m	Shielded
11	RJ45	N/A	20m X3	Non-shielded
12	RJ45	N/A	1.0m	Non-shielded
	Power Cord	N/A	1.8m	Non-shielded

1.4 I/O Port Description

	I/O Port Types	Q'TY
1.	DVI Port	1
2.	VGA Port	1
3.	DP Port	2
4.	LAN Port	3
5.	USB 2.0 Port	2
6.	USB 3.0 Port	4



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1.5 Decision of Test Mode

The test configuration/ modes are as the following:

Conduction Modes (Power port):

1	Power 1 / Normal Mode
2	Power 2 / Normal Mode

Conduction Modes (Wired network port):

1			10Mbps
2		IPMI	100Mbps
3	Power 2		1Gbps
4			10Mbps
5		LAN 1	100Mbps
6			1Gbps
7		LAN 2	1Gbps

Radiation Modes:

1	Normal Mode
2	Normal Mode / 1-6GHz

1.6 The Final Test Mode of the EUT

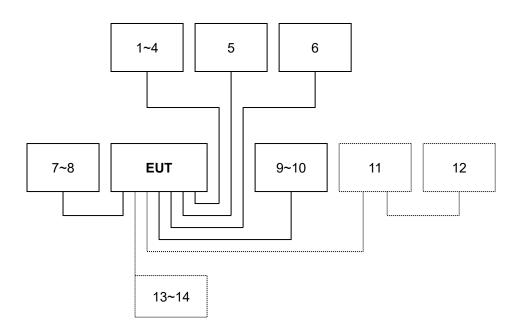
After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test Mode		
Conducted Emission	Mode 2	
ISN	Mode 3	
Radiated Emission Below 1GHz	Mode 1	
Radiated Emission Above 1GHz	Mode 1	
Harmonics & Flicker	Mode 1	
Immunity	Mode 1	

Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.



1.7 Configuration of Tested System



1.8 Operation Procedure

- 1. Windows 10 boots system.
- 2. Run Burnintest 9.0 Pro.exe to activate all peripherals and display "H" pattern on monitor screen
- 3. Run colorbarmove.mp4 to activate all peripherals for test EUT.
- 4. Press the start menu, select executive and type ping 192.168.1.1~3 –t (EUT), ping 192.168.1.99 –t (Server PC).



1.9 Summary of Results

Emission				
Standard	Test Type	Result		
EN 55032: 2015 / A11: 2020	Conducted Emission	PASS		
CISPR 32: 2015 (Ed 2.0) / C1: 2016	ISN	PASS		
BS EN 55032: 2015 / A11: 2020	Radiated Emission	PASS		
EN IEC 61000-3-2: 2019		N/A		
BS EN IEC 61000-3-2: 2019	Harmonic current emissions	IN/A		
EN 61000-3-3: 2013	Voltage changes,	N/A		
BS EN 61000-3-3: 2013	voltage fluctuations & flicker	IN/A		

Immunity						
Standard Test Type Result Performance C						
IEC 61000-4-2: 2008	ESD	PASS	В			
IEC 61000-4-3: 2006 + A1: 2007 + A2: 2010	RS	PASS	A			
IEC 61000-4-4: 2012	EFT	PASS	В			
IEC 61000-4-5: 2014 + A1: 2017	Surge	PASS	В			
IEC 61000-4-6: 2013 + COR1: 2015	CS	PASS	A			
IEC 61000-4-8: 2009	PFMF	N/A	А			
IEC 61000-4-11: 2004 + A1: 2017	DIP	PASS	C/C/B			

1.10 Reporting Statements of Conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

1.11 Deviation

No deviation from the mentioned test methods and applicable standards.



2. EMISSION

2.1 Limit

Maximum permissible level of Line Conducted Emission

FREQUENCY	Class A(dBuV)) Class B(dBuV)	
(MHz)	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note: The lower limit shall apply at the transition frequency.

<u>Maximum permissible level of Common Mode Conducted Emission</u> (Telecommunication Ports)

Class A

FREQUENCY	Voltage Limit(dBuV)		Current Li	mit(dBuA)		
(MHz)	Quasi-peak	Average	Quasi-peak	Average		
0.15 - 0.5	97 - 87	84 - 74	53 - 43	40 - 30		
0.5 - 30.0	87	74	43	30		
Class B	Class B					
FREQUENCY	Voltage Li	mit(dBuV)	Current Limit(dBuA)			
(MHz)	Quasi-peak	Average	Quasi-peak	Average		
0.15 - 0.5	84 - 74	74 - 64	40 - 30	30 - 20		
0.5 - 30.0	74 64		30	20		
Note: The lower limit shall apply at the transition frequency						

Note: The lower limit shall apply at the transition frequency.

Maximum permissible level of Radiated Emission measured at 10 meter

FREQUENCY	Class A(dBuV/m)	Class B(dBuV/m)
(MHz)	Quasi - peak	Quasi - peak
30 - 230	40	30
230 - 1000	47	37

Note: The lower limit shall apply at the transition frequency.



Maximum permissible level of Radiated Emission measured at 3 meter

Frequency range	Class A(dBuV/m)	Class B(dBuV/m)
(MHz)	Quasi - peak	Quasi - peak
30 - 230	50	40
230 - 1000	57	47

Note: The lower limit shall apply at the transition frequency.

<u>Limits above 1 GHz</u> Limits for radiated disturbance of Class A ITE at a measurement distance of 3m

Frequency range	Average Limit	Peak Limit
(GHz)	dB(µV/m)	dB(µV/m)
1 - 3	56	76
3 - 6	60	80

Note: The lower limit applies at the transition frequency.

Limits for radiated disturbance of Class B ITE at a measurement distance of 3m

Frequency range	Average Limit	Peak Limit
(GHz)	dB(µV/m)	dB(µV/m)
1 - 3	50	70
3 - 6	54	74

Note: The lower limit applies at the transition frequency.

Requirements for radiated emissions from FM receivers

Frequency range	Measurement				Class B Limit dB(µV/m)	
(MHz)	Facility	Distance (m)	Detector type / Bandwidth	Fundamental	Harmonics	
30 - 230	OATS/SAC	OATS/SAC 10				42
230 - 300			OATS/SAC 10	10	Quasi Peak / 120 kHz	50
300 - 1000					46	
30 - 230	OATS/SAC		Quasi Daak /		52	
230 - 300		3	Quasi Peak / 120 kHz	60	52	
300 - 1000					56	

These relaxed limits apply only to emissions at the fundamental and harmonic frequencies of the LO. Signals at all other frequencies shall be compliant with the limits

Note: SAC: Semi Anechoic Chamber OATS: Open Area Test Site



2.2 Conducted Emission

2.2.1 Test Instruments

	Conducted Emission Room # B					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due	
Attenuator	MCL	HAT-10	SD-C012	03/24/2021	03/23/2022	
BNC Cable	EMCI	CFD300-NL	BNC#B5	01/05/2021	01/04/2022	
EMI Test Receiver	R&S	ESR3	102166	04/13/2021	04/12/2022	
ISN	Teseq	ISN T800	30847	04/14/2021	04/13/2022	
LISN	Schwarzbeck	NSLK 8127	8127382	04/14/2021	04/13/2022	
LISN(EUT)	Schwarzbeck	NSLK 8127	8127526	04/14/2021	04/13/2022	
Thermo-Hygro Meter	Wisewind	N/A	SD-S017	09/09/2020	09/08/2021	
Test S/W	Test S/W EZ-EMC					
esting Site : No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, Taiwan						

Measurement Uncertainty of Conducted Emission

Expanded uncertainty Ulab (k=2) of Conducted Emission is 2.8 dB.

Expanded uncertainty Ulab (k=2) of ISN Conducted Emission is 3.2 dB.

Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Conducted Emission measurement is 3.8 dB.

Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of ISN Conducted Emission measurement is 5.0 dB.

2.2.2 Measurement Level Calculation

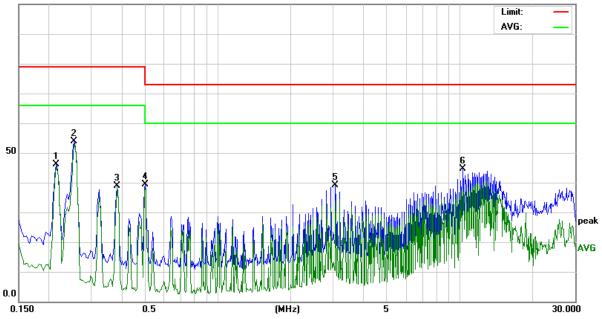
Factor = LISN insertion loss + Cable loss + Pulse Limiter insertion loss Measurement Level = Reading Level + Factor Over (Margin) = Measurement Level – Limit



2.2.3 Measurement Data (CE)

Model No.	SCH-401	6dB Bandwidth	9 kHz
Environmental Conditions	25.7°C, 66% RH	Test Mode	Mode 2
Tested by	Alee Shen	Phase	L1
Standard	EN 55032 CLASS A		

100.0 dBuV



	Conducted Emission Readings								
Frequency Range Investigated				150 kHz to	30 MHz				
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)		
0.2140	36.13	10.10	46.23	79.00	-32.77	Р	L1		
0.2540	43.85	10.08	53.93	79.00	-25.07	Р	L1		
0.3820	28.79	10.09	38.88	79.00	-40.12	Р	L1		
0.5020	29.23	10.10	39.33	73.00	-33.67	Р	L1		
3.0700	28.68	10.37	39.05	73.00	-33.95	Р	L1		
10.3300	34.01	10.65	44.66	73.00	-28.34	Р	L1		

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).



Model No.	SCH-401	6dB Bandwidth	9 kHz
Environmental Conditions	25.7ºC, 66% RH	Test Mode	Mode 2
Tested by	Alee Shen	Phase	L2
Standard	EN 55032 CLASS A		

100.0 dBvV

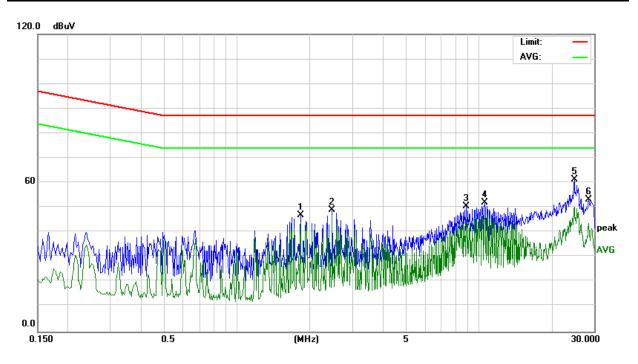
	Conducted Emission Readings								
Frequency Range Investigated				150 kHz to	30 MHz				
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)		
0.2140	36.03	10.10	46.13	79.00	-32.87	Р	L2		
0.2540	44.05	10.08	54.13	79.00	-24.87	Р	L2		
0.3820	28.98	10.09	39.07	79.00	-39.93	Р	L2		
0.5020	28.25	10.10	38.35	73.00	-34.65	Р	L2		
3.0700	29.57	10.33	39.90	73.00	-33.10	Р	L2		
13.4620	33.42	10.64	44.06	73.00	-28.94	Р	L2		

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).



2.2.4 Measurement Data (ISN)

Model No.	SCH-401	6dB Bandwidth	9 kHz
Environmental Conditions	25.7°C, 66% RH	Test Mode	Mode 3
Tested by	Alee Shen	Standard	EN 55032 CLASS A



	Conducted Emission Readings								
Freq	uency Rang	e Investiga	ted	150	kHz to 30 M	Hz			
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)			
1.8300	27.30	19.68	46.98	87.00	-40.02	Р			
2.4780	29.40	19.69	49.09	87.00	-37.91	Р			
8.8900	30.77	19.73	50.50	87.00	-36.50	Р			
10.5659	32.25	19.75	52.00	87.00	-35.00	Р			
24.8180	41.19	20.04	61.23	87.00	-25.77	Р			
28.4940	33.21	20.19	53.40	87.00	-33.60	Р			



2.3 Radiated Emission

2.3.1 Test Instruments

Below 1GHz

		Open Area Tes	t Site # H					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due			
Bilog Antenna	Teseq	CBL 6112D	40529	08/24/2020	08/23/2021			
Cable	EMEC	CFD400NL-LW	N-Type#H11	08/14/2020	08/13/2021			
EMI Test Receiver	R&S	ESCI	101340	02/26/2021	02/25/2022			
Pre-Amplifier	HP	8447D	1937A01554	09/26/2020	09/25/2021			
Thermo-Hygro Meter	Wisewind	201A	No. 03	05/20/2021	05/19/2022			
Test S/W			EZ-EMC					
Testing Site : No.163-7	1, Jhongsheng Rd., Xin	dian Dist., New Taipei City	, Taiwan					
Measurement Uncerta	Measurement Uncertainty of Radiated Emission							
Expanded uncertainty	Ulab (k=2) of Radiated	Emission is 5.2 dB.(30MH	z-1000MHz)					
		1.2014 (A2.2019 (K=2) of F) - dista d Eusia sia a una a					

Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.2 dB.(30MHz-1000MHz)

Above 1GHz

		Chamber	# E		
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Horn Antenna	ETS	3117	00139062	07/14/2021	07/13/2022
Microflex Cable x 7m	EMCI	EMC107-NM- NM-7000	200701	07/07/2021	07/06/2022
K-Type Cable x 1m	EMCI	EMC101G-KM- KM-1000	200702	07/05/2021	07/04/2022
Pre-Amplifier	Com-Power	PAM-118A	551041	07/07/2021	07/06/2022
Signal Analyzer	R&S	FSV40	101269	07/06/2021	07/05/2022
Thermo-Hygro Meter	Wisewind	201A	SD-R046	08/13/2020	08/12/2021
Test S/W			EZ-EMC		
Testing Site : No.163-	1, Jhongsheng Rd., Xind	dian Dist., New Taipei City	, Taiwan		

Measurement Uncertainty of Radiated Emission

Expanded uncertainty (k=2) of Radiated Emission measurement is 4.6 dB (1-6GHz)

Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.5 dB.(1-6GHz)

2.3.2 Measurement Level Calculation

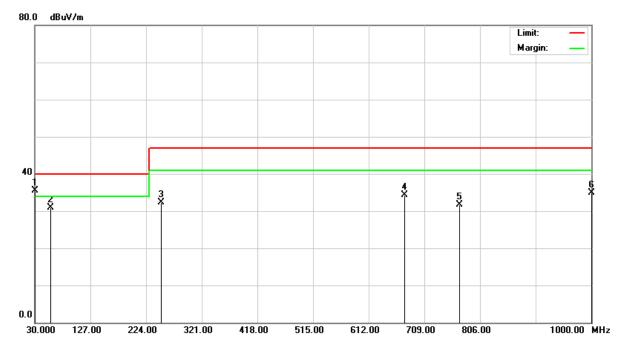
Correction Factor = Antenna Factor + Cable loss- Amplifier Gain Measurement Level = Reading Level + Correction Factor Over (Margin) = Measurement Level – Limit



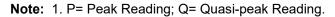
2.3.3 Measurement Data

Below 1GHz

Model No.	SCH-401	Test Mode	Mode 1
Environmental Conditions	28.6°C, 65% RH	6dB Bandwidth	120 kHz
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	Alee Shen
Standard	EN 55032 CLASS A		



	Radiated Emission Readings									
Frequency Range Investigated					30 N	/IHz to 10	00 MHz a	t 10m		
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)
31.1000	38.00	-2.46	35.54	40.00		-4.46	100	115	Q	V
58.1300	45.00	-14.10	30.90	40.	00	-9.10	100	112	Q	V
250.0300	38.90	-6.51	32.39	47.	00	-14.61	100	105	Q	V
675.0010	32.40	1.90	34.30	47.	00	-12.70	400	15	Q	V
770.0300	28.20	3.57	31.77	47.00		-15.23	400	205	Q	V
1000.0000	28.50	6.39	34.89	47.	00	-12.11	400	168	Q	V





Model No.	SCH-401	Test Mode	Mode 1
Environmental Conditions	28.6°C, 65% RH	6dB Bandwidth	120 kHz
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	Alee Shen
Standard	EN 55032 CLASS A		

80.0 dBuV/m



	Radiated Emission Readings									
Fre	Frequency Range Investigated					30 N	/IHz to 10	00 MHz a	t 10m	
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)
31.2300	32.00	-2.54	29.46	40.00		-10.54	400	132	Q	Н
205.0300	38.50	-9.87	28.63	40.0	00	-11.37	400	205	Q	Н
308.1500	39.50	-5.28	34.22	47.0	00	-12.78	400	65	Q	Н
410.0300	33.60	-1.84	31.76	47.0	00	-15.24	100	22	Q	Н
500.0400	35.80	-0.45	35.35	47.0	00	-11.65	100	154	Q	Н
1000.0000	26.40	6.39	32.79	47.0	00	-14.21	100	180	Q	Н

Note: 1. P= Peak Reading; Q= Quasi-peak Reading	ling; Q= Quasi-peak Reading.
-------------------------------------------------	------------------------------



Above 1GHz

Model No.	SCH-401	Test Mode	Mode 1
Environmental Conditions	25.3℃, 60% RH	6dB Bandwidth	1 MHz
Antenna Pole	Vertical / Horizontal	Antenna Distance	3m
Highest frequency generated or used	1800MHz	Upper frequency	6000MHz
Detector Function	Peak and average.	Tested by	Alee Shen
Standard	EN 55032 CLASS A	•	

Radiated Emission Readings								
Frequency Range Investigated					Above 1GH	lz at 3m		
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)	
1990.000	59.28	-4.97	54.31	76.00	-21.69	Р	V	
2155.000	56.13	-4.96	51.17	76.00	-24.83	Р	V	
2310.000	58.46	-4.44	54.02	76.00	-21.98	Р	V	
3000.000	58.03	-3.82	54.21	76.00	-21.79	Р	V	
3485.000	55.87	-3.62	52.25	80.00	-27.75	Р	V	
3995.000	55.68	-3.30	52.38	80.00	-27.62	Р	V	

Radiated Emission Readings								
Frequency Range Investigated					Above 1GF	lz at 3m		
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)	
1495.000	57.50	-8.64	48.86	76.00	-27.14	Р	Н	
1995.000	59.75	-4.95	54.80	76.00	-21.20	Р	Н	
2310.000	55.74	-4.44	51.30	76.00	-24.70	Р	Н	
2465.000	53.89	-4.32	49.57	76.00	-26.43	Р	Н	
2995.000	57.30	-3.81	53.49	76.00	-22.51	Р	Н	
3850.000	54.50	-3.42	51.08	80.00	-28.92	Р	Н	

Note: 1. P= Peak Reading; A= Average Reading.



3.Harmonics

3.1 Test Instruments

Immunity A						
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due	
Testing Site : No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, Taiwan						

3.2 Measurement Data

<u>Remark:</u> N/A: The subject equipment is not intended to be connected to AC mains supply. Therefore, this test is not applicable



4.Flicker

4.1 Test Instruments

Immunity A							
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due		
Testing Site : No. ²	Testing Site : No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, Taiwan						

4.2 Measurement Data

<u>Remark:</u> N/A: The subject equipment is not intended to be connected to AC mains supply. Therefore, this test is not applicable



5.IMMUNITY

5.1 STANDARD PERFORMANCE CRITERIA DESCRIPTION

- Criterion A The apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.
- Criterion B The apparatus 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 apparatus is used as intended.
- Criterion C Temporary loss of function is allowed, provided the function is self recoverable or can be restored by the operation of the controls.



5.2 SPECIAL PERFORMANCE CRITERIA DESCRIPTION

5.2.1 Performance Criteria Description for Print function

Criterion A - Apply criterion A as defined in 8.2. Additionally, the following shall not occur as a consequence of the application of the disturbance:

- change of operating state;
- unintended pausing of the print operation;
- a change of print quality or legibility, as appropriate to the test pattern;
- change of character font;
- unintended line feed;
- unintended page feed;
- paper feed failure.
- Criterion B Apply criterion B as defined in 8.3 with the following specifics and additional limitations. Paper feed failures are allowed only if, after removal of the jammed sheets, the job is automatically recovered and there is no loss of printed information. Any low-quality print output caused by the application of the disturbance shall not continue beyond the sheet of media being printed, or beyond the typical length of a finished page or sheet printed from continuous roll media. False indicators are permitted during the test provided that a normal operator response to that false indicator is simple (such as pressing a button). False indicators are not acceptable if they would cause the user to discard printing supplies such as ink, toner or paper, when those supplies are actually not empty or faulty. Any false indicator shall either clear automatically or after the operator's response. After the disturbance, the print function may print the remainder of the print job at a quality level within the manufacturer's specifications. Alternately, the print function may halt processing of a print job as a result of the disturbance, but only if the operator is capable of reprinting the job (for example, a fax printing job where the image to be printed still resides in local memory). Automatically restarting the print job from the beginning is also acceptable. In any scenario, the pairing of front and back images during double-sided printing shall be correct.
- Criterion C Temporary loss of function is allowed, provided the function is self recoverable or can be restored by the operation of the controls.



5.2.2 Performance Criteria Description for Scan function

Criterion A - Apply criterion A as defined in 8.2. Additionally, the following shall not

- occur as a consequence of the application of the test:
- change of settings, such as which side(s) of the page to be scanned, colour or monochrome, and resolution;
- corruption of the image, for example stretching, compressing or change in colour;
- paper feed failures;
- errors in the reading of bar codes.
- Criterion B Apply criterion B as defined in 8.3 with the following specifics and additional limitations.
 - Document feed failures are allowed only if the original documents are undamaged and, after removal of the jammed sheets, the job is automatically recovered and there is no loss of scanned information.
 - During the test, the representation of the image shall not be degraded such that reading mistakes occur.
- Criterion C Temporary loss of function is allowed, provided the function is self recoverable or can be restored by the operation of the controls.

5.2.3 Performance Criteria Description for Display and display output function

Criterion A - Apply criterion A as defined in 8.2. Additionally, an increase in any degradation greater than just perceptible by observation of the image shall not occur as a consequence of the application of the test. Examples of such degradations are:

- superimposed patterning;
- positional disturbances due to synchronisation errors;
- geometric distortion;
- change of contrast or brightness;
- picture artefacts;
- freezing or disturbance of motion;
- image loss;
- video data or decoding errors.
- Criterion B The apparatus 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 apparatus is used as intended.
- Criterion C Temporary loss of function is allowed, provided the function is self recoverable or can be restored by the operation of the controls.



5.2.4 Performance Criteria Description for Musical tone generating function

- Criterion A Performance criterion A is subdivided according to the type of equipment and its use. Three subgroups corresponding to different equipment types are defined in Table E.1 and have corresponding performance criteria A1, A2 and A3. The relevant subgroup shall be selected by the manufacturer in accordance with the product specification. The description of criteria A1, A2 and A3 are presented in Table E.2.
- Criterion B During the test, degradation of performance beyond that defined in criterion A1 of Table E.2 is allowed. However, sudden amplification of tone to a level that exceeds the expected level by more than 6 dB is not allowed. After the test, normal operation of the EUT shall be self-recovered. In the case of unintended tone holding caused by a MIDI protocol communication error, the EUT can be re-initialised by the operation of the controls by the user controls in accordance with the manufacturer's instructions. Due to the nature of the MIDI protocol, it is necessary to modify the performance criterion B to allow user intervention when the unintended tone holding is caused by a missing MIDI communication error (for example missing a 'NOTE OFF' message).
- Criterion C Degradation of the performance beyond that defined in criterion A1 of Table E.2 is permitted provided that the normal operation of the EUT can be restored after the test by operator intervention. However, sudden amplification of tone to a level that exceeds the expected level by more than 6 dB is not allowed.



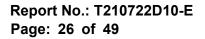
5.2.5 Performance Criteria Description for Networking function

Criterion A - Where relevant, during the application of the test the network function shall, as a minimum, operate ensuring that:

- established connections shall be maintained throughout the application of the test;
- no change of operational state or corruption of stored data occurs;
- no increase in error rate above the figure defined by the manufacturer occurs. The manufacturer should select the most appropriate performance measurement criteria for the product or system, for example bit error rate, block error rate;
- no request for retry above the figure defined by the manufacturer;.
- the data transmission rate does not reduce below the figure defined by the manufacturer;
- no protocol failure occurs;
- the audio noise level at a two-wire analogue interface (supporting telephony) shall satisfy the requirements of Table G.3. The audio level measurements shall be performed at the demodulated frequency of the disturbance using a narrowband filter with a 3 dB bandwidth of 100 Hz using the method defined in table clause G.1.4. See G.6.1. As described in the example given in J.3.5 the networking function is monitored during testing using direct functions specified elsewhere in this document. If needed to verify the operation of the protocol, the following functions shall be verified as described in Table H.1 when performing the additional spot frequency tests contained in Clause 5:
- ability to establish a connection,
- ability to clear a connection.

Where an EUT has supervisory functions they shall not be affected. Elements that should be monitored include, but are not limited to:

- alarms,
- signalling lamps,
- printer output errors,
- network traffic rates,
- network monitor errors,
- measured network parameters.





Criterion B - Established connections shall be maintained throughout the test, or shall self-recover in a way and timescale that is imperceptible to the user.

The error rate, request for retry and data transmission rates may be degraded during the application of the test. Degradation of the performance as described in criterion A is permitted, provided that the normal operation of the EUT is self-recoverable to the condition established prior to the application of the test. Where required, as defined in Clause 5, the acceptable operation of the function shall be verified at the completion of the test as described in Table H.1, by confirming the following:

• the EUT's ability to establish a connection,

• the EUT's ability to clear a connection.

During surge testing disconnection is allowed on the analogue/digital data port being tested. If the EUT is a supervisory equipment, it shall not impact the normal operation of the network being monitored. In addition, any supervisory functions impacted during the period of the test shall return to the state prior to the test. Elements to consider include:

- alarms,
- signalling lamps,
- printer output,
- network traffic rates,
- network monitoring. is used as intended.
- Criterion C Degradation of performance as described in criteria A and B is permitted provided that the normal operation of the EUT is self-recoverable to the condition immediately before the application of the test, or can be restored after the test by the operator.



5.2.6 Performance Criteria Description for Audio output function

Criterion A - The interference ratio (electrical or acoustic) shall meet the limits in column 3; or,

the acoustic level of the demodulated audio shall be less than the limits in column 4; or,

the digitally coded level of demodulated audio shall be less than limits in column 5; or,

the analogue level of the demodulated audio shall be less than the limits in column 6.

Criterion B - The apparatus 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 apparatus is used as intended.

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

5.2.7 Performance Criteria Description for Telephony function

Function to be exercised	Performance criteria					
Function to be exercised	Α	В	С			
Establish new communication	At the additional spot frequency tests _{a, c}	Performed before and after the application of the test or disturbance	Performed before and after the application of the test or disturbance			
Maintain established communication	Yes In addition, the requirements of Annex G for the audio output function shall be satisfied c	Yes b	No			
Terminate established communication	At the additional spot frequency tests _{a, c}	Performed before and after the application of the test or disturbance	Performed before and after the application of the test or disturbance			

Communication refers to a telephone call or other form of voice connection.

a Applicable to TTE with a dial function that provides dedicated emergency service/safety of life call capability. Where the EUT does not provide this functionality, this limitation shall be stated in the equipment user manual.

b Communication shall be established prior to the application of the disturbance, the communication shall be maintained and the quality of that communication (for example, volume setting, the level of background noise) shall be maintained after completion of the test or disturbance.

c Where defined in Clause 5 (for the tests in Table 1 to Table 4), these functional tests shall be performed during the additional spot frequency tests.



5.3 Test of IEC 61000-4-2

5.3.1 Test Instruments

Immunity Shielded Room							
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due		
Aneroid Barometer	SATO	7610-20	89090	09/01/2020	08/31/2021		
ESD Simulator	Teseq	NSG 438	1581	12/24/2020	12/23/2021		
Thermo-Hygro Meter	Wisewind	201A	SD-S039	01/06/2021	01/05/2022		
Testing Site : No.1	163-1, Jhongsheng	g Rd., Xindian Dist	., New Taipei City,	Taiwan			

5.3.2 EUT Operating Condition

Environment:

Temperature	Humidity	Air Pressure
18 °C	43 %RH	1008 hpa



5.3.3 Results of Electrostatic Discharge Test (ESD)

Model No.	: SCH-401
Tested By	: Rax Chen
Tested Date	: July 30, 2021
Test Mode	: Mode 1
Basic Standard	: IEC 61000-4-2
Discharge Impedance	: 330 ohm / 150 pF
Discharge Voltage	: Air Discharge: <u>+</u> 2, 4, 8 kV
	Contact Discharge: +2, 4 kV
	HCP/VCP: <u>+</u> 2, 4 kV
Polarity	: Positive/Negative
Number of Discharge	: 10 times at each test point
Discharge Mode	: Single Discharge
Discharge Period	: 1 second

A.Observations:

<u>Test points:</u> 1. Front side. 2. Back side. 3. Left side. 4. Right side. 5. Top side. 6. Bottom side.

Direct Ap	plication		Test Results		
Discharge Level (kV)	Polarity (+/-)	Test Point	Contact Discharge	Air Discharge	
2, 4, 8 (Air.)	+/-	1~2	N/A	А	
2, 4 (Cont.)	+/-	1, 3~5	А	N/A	
2, 4 (Cont.)	+/-	2	В	N/A	

Remark: A: No degradation of performance or loss of function.

B: As ±4kV contact discharge tests, the data accessing via LAN was paused. It could become normal after test stop
 N/A: Not Applicable

B.Observations:

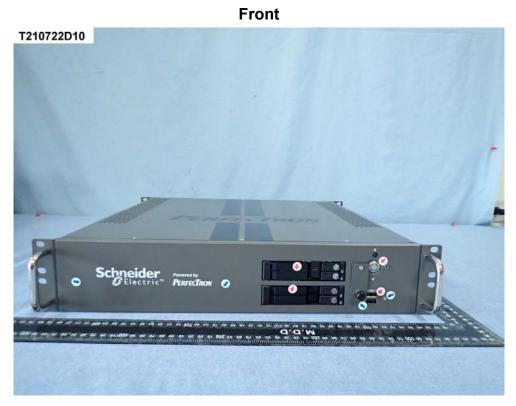
Test points: 1. Front side. 2. Back side. 3. Left side. 4. Right side.

Indirect A	Application	Test Re	sults	
Discharge Level (kV)	Polarity (+/-)	Test Point	Horizontal Coupling	Vertical Coupling
2, 4	+/-	1~4	А	А

Remark: A: No degradation of performance or loss of function.



ESD Test point



Back



Air Discharge: 🔶 Contact Discharge: 📤



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Left



Right



Air Discharge: 🔶 Contact Discharge: 🔶



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Тор







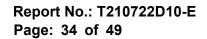
5.4 Test of IEC 61000-4-3

5.4.1 Test Instruments

844 RS Chamber					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Electric Field Probe	AR	FL7006	0356656	10/14/2020	10/13/2021
Field of Calibration	CCS	Chamber#RS	80-1000MHz	02/26/2021	02/25/2022
RF Power Meter	Boonton	4242	17419	03/17/2021	03/16/2022
Power Sensor	Boonton	51011A-EMC	36833	03/17/2021	03/16/2022
Power Sensor	Boonton	51011A-EMC	36834	03/17/2021	03/16/2022
Signal Generator	Agilent	N5181A	MY47421336	11/15/2020	11/14/2021
Thermo-Hygro Meter	Wisewind	N/A	SD-S019	10/19/2020	10/18/2021
Broadband Antenna	Schwarzbeck	VUSLP 9111E	D-69250	N.C.R	N.C.R
Power Amplifier	Milmega	80RF1000-600	1079361	N.C.R	N.C.R
Field of Calibration	CCS	Chamber#RS	1000-6000M	02/25/2021	02/24/2022
Direction Coupler	AR	DC7144A	306217	N.C.R	N.C.R
Microwave Antenna	Schwarzbeck	STLP 9149	767	N.C.R	N.C.R
Power Amplifier	AR	60S1G3	302728	N.C.R	N.C.R
Power Amplifier	Milmega	AS1860-100	1075832	N.C.R	N.C.R
Power Amplifier	Teseq	CBA6G-100D	1087370	N.C.R	N.C.R
Test Software	Test Software EmcwareVer. 2.6.0.16				
Testing Site : No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, Taiwan					

5.4.2 EUT Operating Condition

Environment:		
Temperature	Humidity	Air Pressure
22 °C	53 %RH	1009 hpa





5.4.3 Results of Radiated Radio Frequency Electromagnetic (RS)

Model No.	: SCH-401
Tested By	: Rax Chen
Tested Date	: July 22, 2021
Test Mode	: Mode 1
Basic Standard	: IEC 61000-4-3
Frequency range	: 80 MHz - 1000 MHz
Frequency range	: 1800 MHz, 2600 MHz, 3500 MHz, 5000 MHz (±1%)
Field strength	: 3 V/m
Modulation	: 80% AM (1kHz)
Frequency step	: 1 % of fundamental
Polarity of Antenna	: Horizontal and Vertical
Dwell Time	: 3 seconds
Test distance	: 3 m

No.	Frequency (MHz)	Antenna Orientation	Observation	EUT Orientation
1	80 - 1000	Vertical/Horizontal	А	0 degree
2	80 - 1000	Vertical/Horizontal	А	90 degree
3	80 - 1000	Vertical/Horizontal	А	180 degree
4	80 - 1000	Vertical/Horizontal	A	270 degree

<u>Remark:</u> A: No degradation of performance or loss of function.

No.	Frequency (MHz)	Antenna Orientation	Observation	EUT Orientation
1	1800, 2600, 3500, 5000 (±1%)	Vertical/Horizontal	А	0 degree
2	1800, 2600, 3500, 5000 (±1%)	Vertical/Horizontal	А	90 degree
3	1800, 2600, 3500, 5000 (±1%)	Vertical/Horizontal	А	180 degree
4	1800, 2600, 3500, 5000 (±1%)	Vertical/Horizontal	А	270 degree

Remark: A: No degradation of performance or loss of function.



5.5 Test of IEC 61000-4-4

5.5.1 Test Instruments

Immunity Shield Room					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Capacitive Clamp	EMC-Partner	CN-EFT1000	589	06/07/2021	06/06/2022
EMC Test System	Teseq	NSG 3060	1718	12/15/2020	12/14/2021
Software WIN 3000Ver. 1.3.2					
Testing Site : No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, Taiwan					

5.5.2 EUT Operating Condition

Environment:		
Temperature	Humidity	Air Pressure
20 °C	53 %RH	1007 hpa

5.5.3 Results of Electrical Fast Transient (EFT)

Model No.	: SCH-401
Tested By	: Rax Chen
Tested Date	: July 30, 2021
Test Mode	: Mode 1
Basic Standard	: IEC 61000-4-4
Test Voltage	: DC Input: ± 0.5 kV
Signal/Comm.	: ± 0.5 kV
Polarity	: Positive/Negative
Impulse Frequency	: 5 kHz
Tr/Th	: 5/50ns
Burst	: 15ms/300ms
Observation:	

Test Point	Polarity	Test Level (kV)	Results
L	+/-	0.5	А
N	+/-	0.5	А
PE	+/-	0.5	А
L-N	+/-	0.5	А
L-PE	+/-	0.5	А
N-PE	+/-	0.5	А
L-N-PE	+/-	0.5	А
RJ45	+/-	0.5	A

Remark: A: No degradation of performance or loss of function



5.6 Test of IEC 61000-4-5

5.6.1 Test Instruments

Immunity Shield Room					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
CDN	EMC-Partner	CDN-UTP8	1505	12/15/2020	12/14/2021
EMC Test System	Teseq	NSG 3060	1718	12/15/2020	12/14/2021
Software WIN 3000Ver. 1.3.2					
Testing Site : No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, Taiwan					

5.6.2 EUT Operating Condition

Environment:

Temperature	Humidity	Air Pressure
20 °C	53 %RH	1007 hpa

5.6.3 Results of Surge Test

Model No.	: SCH-401			
Tested By	: Rax Chen			
Tested Date	: July 30, 2021			
Test Mode	: Mode 1			
Basic Standard	: IEC 61000-4-5			
Test Rate	: 1 pulse every minute			
No. of Tests	: 5 positive and 5 negative pulses			
Waveform	: 1.2/50μs (8/20μs)			
Observation Description				
DC input line:				

Test Point	Phase Angle (degree)	Polarity (+/-)	Test Level (kV)	Observation
L – N	0	+/-	0.5	А
L – PE	0	+/-	0.5	A
N – PE	0	+/-	0.5	A

<u>Remark:</u> A: No degradation of performance or loss of function.

Signal line:Test Rate: 1 pulse every minuteNo. of Tests: 5 positive and 5 negative pulsesWaveform: 10/700µsObservation Description

Signal line:

Test Point	Phase Angle (degree)	Polarity (+/-)	Test Level (kV)	Observation
RJ45	No phase angle (degree)	+/-	1	В

<u>Remark:</u> B: During the test, data accessing via LAN port was paused. It could become normal after test stopped.



5.7 Test of IEC 61000-4-6

5.7.1 Test Instruments

CS Room					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
CDN	Teseq	CDN S751A	46649	11/16/2020	11/15/2021
CDN	Teseq	CDN M016	35821	11/16/2020	11/15/2021
CDN	TESEQ	CDN T400A	28547	11/16/2020	11/15/2021
CDN	FCC	FCC-801-M3-25A	9973	11/16/2020	11/15/2021
CDN	Teseq	CDN T8A-10	57182	05/26/2021	05/25/2022
Compact Immunity Test System	TESEQ	NSG 4070	39581	11/20/2020	11/19/2021
Test Software	Test Software NSG 4070 Control Program V1.2.0				
Testing Site : No.16	3-1, Jhongsheng	g Rd., Xindian Dist.	, New Taipei City,	Taiwan	

5.7.2 EUT Operating Condition

Environment:

Temperature	Humidity	Air Pressure
23 °C	54 %RH	1007 hpa

5.7.3 Results of Immunity to Conducted Disturbances (CS)

Model No. Tested By Tested Date Test Mode Basic Standard Frequency range Field strength Frequency range Field strength Frequency range Field strength Modulation Frequency step Dwell Time	: FF : J : M : II : C : 3 : 1 : 3 : 3 : 1 : 4 : 1 : 4 : 1	CH-401 Rax Chen uly 30, 2021 Aode 1 EC 61000-4-6 .15 MHz -10 MHz Vrms 0 MHz - 30 MHz V to 1Vrms 0 MHz - 80 MHz Vrms 00% AM, 1 kHz Sinewave % of fundamental	
Dwell Time			
Coupling Method Cable Descriptio		CDN-M3; CDN-T8	Observation
DC input		0.15 – 80	A
Beinpat		0.10 00	<i>N</i>

Signal Ports

Cable Description	Frequency (MHz)	Observation
RJ45	0.15 – 80	A

<u>Remark:</u> A: No degradation of performance or loss of function.



5.8 Test of IEC 61000-4-8

5.8.1 Test Instruments

Immunity Shield Room					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Testing Site : No.1	Testing Site : No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, Taiwan				

5.8.2 EUT Operating Condition

Environment:

Temperature	Humidity	Air Pressure
N/A	N/A	N/A

5.8.3 Result of Immunity to Power Frequency Magnetic Field

Model No.	: SCH-401
Tested By	: N/A
Tested Date	: N/A
Test Mode	: N/A
Basic Standard	: IEC 61000-4-8
Power Frequency	: 50 Hz
Magnetic Field	: 1 A/m(r.m.s)
Coil Orientation	: X, Y, Z Axis
Observation	: N/A

<u>Remark:</u> N/A: There is no any sensitive part for magnetic field test. Applicable only to equipment containing susceptible to magnetic field.



5.9 Test of IEC 61000-4-11

5.9.1 Test Instruments

Immunity Shielded Room					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Testing Site : No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, Taiwan					

5.9.2 EUT Operating Condition

Environment:

Temperature	Humidity	Air Pressure
N/A	N/A	N/A

5.9.3 Results of Voltage Dips Immunity Test

Model No.	: SCH-401
Tested By	: N/A
Tested Date	: N/A
Test Mode	: N/A
Basic Standard	: IEC 61000-4-11
EUT Rated Voltage	: 230 Volts.
Reduction Voltage	: 30, >95 % Ut
Phase Angle	: 0,180 degree
Total events	: 3 dropouts
Event interval	: 10 seconds

Test Power: 230Vac, 50Hz				
Environmental phenomena	Test specification (% reduction)	Duration (in periods of the rated frequency)	Observation	
Voltage Interruptions	>95	250	N/A	
	30	25	N/A	
Voltage dips	>95	0.5	N/A	

Test Power: 230Vac, 60Hz				
Environmental phenomena	Test specification (% reduction)	Duration (in periods of the rated frequency)		
Voltage Interruptions	>95	300	N/A	
Voltage dips	30	30	N/A	

<u>Remark:</u> N/A: The subject equipment is not intended to be connected to AC mains supply. Therefore, this test is not applicable.



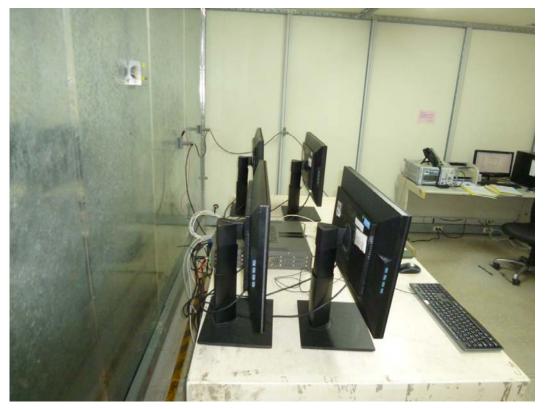
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APPENDIX

Photograph of Testing General Set-up

CE Testing Set-up







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ISN Testing Set-up





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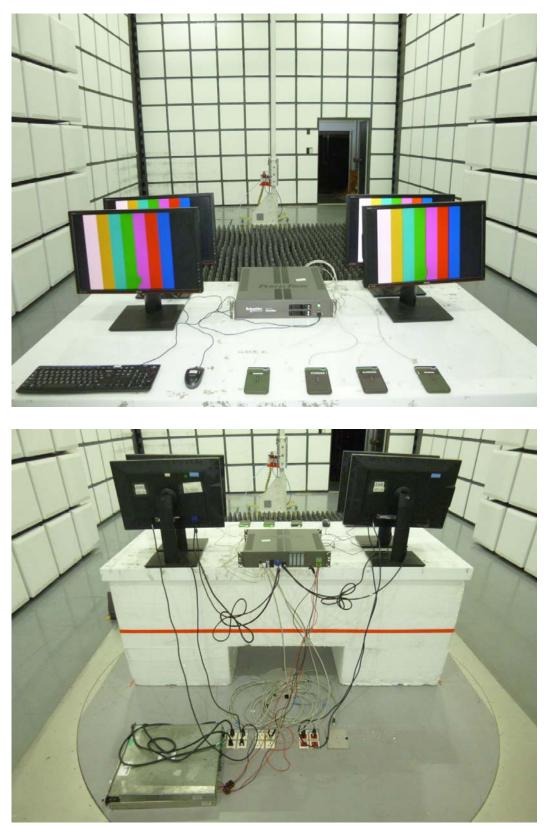
RE Testing Set-up Below 1GHz







Above 1GHz





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ESD Testing Set-up



RS Testing Set-up





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EFT Testing Set-up



EFT For I/O Testing Set-up





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Surge Testing Set-up



Surge For I/O Testing Set-up





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CS Testing Set-up



CS For I/O Testing Set-up





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Photographs of EUT Unit

Exterior

T210722D10







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** End of Report **