

TEST REPORT

Test Report No. :MH/2021/20093 Applicant : Sixfab, Inc. Address : 75 E. Santa Clara St. Suite 900 San Jose, CA 95113, USA Manufacturer : Sixfab, Inc. Address : 75 E. Santa Clara St. Suite 900 San Jose, CA 95113, USA

Equipment Under Test (EUT) : Name : 3G/4G & LTE Base HAT Brand Name : Sixfab Model No.: S121 Added Model(s) : N/A

Standards:

otaridaras:		
EN 55032 : 2015+A11:2020		
EN 61000-3-2 : 2014	EN 61000-3-3 : 2013+A1:2019	
EN 55024 : 2010+A1:2015		
IEC 61000-4-2 : 2008	IEC 61000-4-6 : 2013	
IEC 61000-4-3 : 2006+A1:2007+A2:2010	IEC 61000-4-8 : 2009	
IEC 61000-4-4 : 2012	IEC 61000-4-11 : 2004+A1:2017	
IEC 61000-4-5 : 2014+A1:2017		
In the configuration tested, the EUT complied with the standards specified above.		

Date of Sample Receipt : Feb. 25, 2021 **Date of Test** : Mar. 08 ~ 16, 2021

: Mar. 29, 2021

Date of Issue

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Eddy Cheng Approved By Date Mar. 29, 2021 Eddy Cheng (Asst. Supervisor) **Testing Laboratory** 3703

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Revision History				
Revision	Description	Issue Date	Remark	
00	Original.	Mar. 29, 2021	MH/2021/20093	

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1. General Description

1.1 General Description of EUT

3G/4G & LTE Base HAT	
Sixfab	
S121	
N/A	
N/A	
	Sixfab S121 N/A

1.2 Details of EUT

Power Supply	AC100~240V, 50/60Hz
Modes/Function	Mode 1. EUT+Earphone+USB K/B & Mouse+Copy USB HDD
	Data to EUT+Mini-HDMI*2+LAN Link+WiFi Link+BT
	Link+GPS/GNSS On+LTE B1 Link+Adapter
	Mode 2. EUT+Earphone+USB K/B & Mouse+Copy EUT Data to
	USB HDD+Mini-HDMI*2+LAN Link+WiFi Link+BT
	Link+GPS/GNSS On+WCDMA B1 Link+Adapter
	Mode 3. EUT+Earphone+USB K/B & Mouse+Worst USB HDD
	Copy+Mini-HDMI*2+LAN Link+WiFi Link+BT
	Link+GPS/GNSS On+GSM 900 Link+Adapter
Adapter	Model No.: KSA-15E-051300HE
	Supplier : Raspberry Pi
	I/P : AC 100-240V, 50/60Hz, 0.5A
	O/P : DC 5.1V, 3A
Highest internal frequency	2.4GHz

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PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Monitor	DELL	P2415Qb	CN-0GTTPW-74261-559-0AUL
Monitor	DELL	P2415Qb	CN-0GTTPW-74261-559-0C5L
HDD	Transcend	TS1TSJ25M3E	D56608-1239
Mouse	DELL	MS111-T	CN-OKW2YH-71616-345-OL7T
BT Mouse	Logiteck	M555b	N/A
Keyboard	Logitech	Y-U0009	1243MG0015H
GPS Signal Generator	Spectracom	GSG53 GNSS4	200218
Radio Communication Analyzer	R&S	CMW500	N/A
AP	BUFFALO	WZR-HP-G300NH2	44066221202559[[G]]
Earphone	EDSDS	EDS-C415	N/A

1.3 Description of Support Units

Support Equipment Used in Tested Cable

Cable Type	Core	Length	Shielding/Non-shielding
USB cable*2	N/A	1.5m	Shielding
HDMI cable*2	N/A	1.5m	Shielding
USB cable	N/A	0.5m	Shielding
Audio cable	N/A	1.5m	Non-shielding
RJ45 cable	N/A	1.5m	Non-shielding

1.4 Operation Procedure

Mode 1 & 3

- 1. Let EUT install with SIM Card, Audio Port connect to EARPHONE, USB Port to USB K/B & Mouse & USB HDD, LAN Port to remote PC, Mini-HDMI*2 Port to screen*2, Type-C Port connect to Adapter to turn it on.
- 2. Turn on BT to link BT Mouse.
- 3. Turn on WiFi and connect to WiFi AP (2.4G), turn on the Terminal window, and execute ping 192.168.1.1. (WiFi AP IP)
- 4. Set up a GPS simulator, EUT opens the Terminal window, before and after the test, execute python3 GPS.py to confirm the reception.
- 5. At the top right of the screen, you can show LAN IP, EUT opens the Terminal window, and executes ping remote PC IP.
- 6. Set up base station, set according to test mode (LTE B1 or GSM900) Link.
- 7. Run Data R/W of USB HDD according to test mode.
- 8. Run the VLC program to turn the COLOR BAR.
- 9. Start the test.

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1.5 The worst case of the EUT

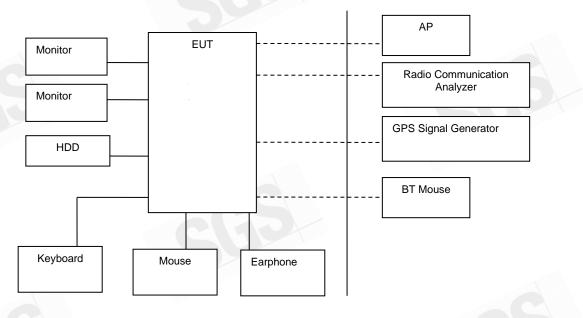
EUT will be carried out in the worst case as followings: Worst Case: CE Worst case : Mode 1 **ISN Worst case** : Mode 1 Below 1GHz RE Worst case : Mode 3 Above 1GHz RE Worst case : Mode 1

1.6 Modification List

No modification by SGS Taiwan Electromagnetic Compatibility Laboratory.

1.7 Configuration of Tested System

Mode 1 & 3



1.8 Accessories Cable List

	Cable Type	Core	Length	Shielding/Non-shielding
\geq	USB cable	N/A	1.5m	Shielding
	USB cable	N/A	0.1m	Shielding
	Antenna cable*3	N/A	0.1m	Non-shielding

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1.9 Decision Rules of Results

Reported measurement data comply with EN 55032 : 2015+A11:2020. Measurement instrumentation uncertainty shall not be taken into account in the determination of compliance.

1.10 Summary of Results

Emission			
Standard Test Type Resu			
	Conducted Emission	PASS	
EN 55032 : 2015+A11:2020	ISN	PASS	
	Radiated Emission	PASS	
EN 61000-3-2 : 2014	Harmonic current emissions	PASS	
EN 61000-3-3 : 2013+A1:2019	Voltage changes, voltage fluctuations & flicker	PASS	

Immunity (EN 55024 : 2010+A1:2015)				
Standard	Test Type	Performance Criteria	Result	
IEC 61000-4-2 : 2008	ESD	В	PASS	
IEC 61000-4-3 : 2006+A1:2007+A2:2010	RS	A	PASS	
IEC 61000-4-4 : 2012	EFT	В	PASS	
IEC 61000-4-5 : 2014+A1:2017	Surge	В	PASS	
IEC 61000-4-6 : 2013	CS	A	PASS	
IEC 61000-4-8 : 2009	PFMF	A	PASS	
IEC 61000-4-11 : 2004+A1:2017	DIP	C/C/B	PASS	

1.11 Reporting Statements of Conformity

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

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2. EMISSION

EN 55032 : 2015+A11:2020

2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 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.

Maximum permissible level of Common Mode Conducted Emission (Telecommunication Ports) CLASS A

ULAUU A						
FREQUENCY	Voltage Li	mit(dBuV)	Current Limit(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						
FREQUENCY	Voltage Li	mit(dBu\/)	Current Li	mit(dBuA)		

FREQUENCY	Voltage Li	mit(dBuV)	Current Li	mit(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.

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.

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Maximum permissible level of Radiated Emission measured at 3 meter

FREQUENCY	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.

Limits above 1 GHz 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 to 3	56	76
3 to 6	60	80
	1 to 3	GHz dB(µV/m) 1 to 3 56

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 to 3	50	70
3 to 6	54	74

Note : The lower limit applies at the transition frequency.

Requirements for radiated emissions from FM receivers

Frequency					
range (MHz)	Facility Distance m		Detector type / Bandwidth	Fundamental	Harmonics
30 to 230	OATS/SAC		Quasi Peak /		42
230 to 300	OATS/SAC	10	120 kHz	50	42
300 to 1000	OATS/SAC				46
30 to 230	OATS/SAC		Quasi Peak /		52
230 to 300	OATS/SAC	3	120 kHz	60	52
300 to 1000	OATS/SAC				56
			ns at the fundam shall be complia		•

Note : SAC : Semi Anechoic Chamber

OATS : Open Area Test Site

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f (886-3) 327-7559

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2.3 Methods and Procedures

Standard Edition		Description
EN 55032	2015+A11:2020	Electromagnetic compatibility of multimedia equipment -Emission requirements

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2.4 Test of Conducted Emission & ISN

2.4.1 Test Instruments

	SGS Conducted_Em	ission HWAYA Con	ducted Room No.E	B_EMC	
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100924	2020/10/28	2021/10/27
Coaxial Cables	EMC Instruments Corp.	HY-CEB-CABLE	HYCE-2000-02	2020/12/15	2021/12/14
Pulse Limiter	R&S	ESH3Z2	102099	2020/6/16	2021/6/15
LISN	TESEQ	NNB 51	36061	2021/3/3	2022/3/2
LISN	TESEQ	NNB 51	36062	2020/4/17	2021/4/16
ISN	TESEQ	ISN T800	30842	2020/8/26	2021/8/25
ISN	TESEQ	ISN T8-Cat6	38889	2021/2/25	2022/2/24
Communication Tester	R&S	CMU200	114273	2020/5/31	2021/5/30
Communication Tester	R&S	CMW500	152303	2021/2/24	2022/2/23
Communication Tester	Anritsu	MT8820C	6201300479	2020/11/4	2021/11/3
Test Software	Farad	EZ-EMC	Ver. SGS-03A2-5	N.C.R.	N.C.R.

Testing Site : No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan

Measurement Uncertainty of Conducted Emission

Expanded uncertainty Ulab (k=2) of Conducted Emission is 2.28 dB.

Expanded uncertainty Ulab (k=2) of ISN Conducted Emission is 2.77 dB.

Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Conducted Emission measurement is 3.44 dB.

Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of ISN Conducted Emission measurement is 4.59 dB.

2.4.2 Measurement Level Calculation

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

2.4.3 Measurement Level Calculation

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

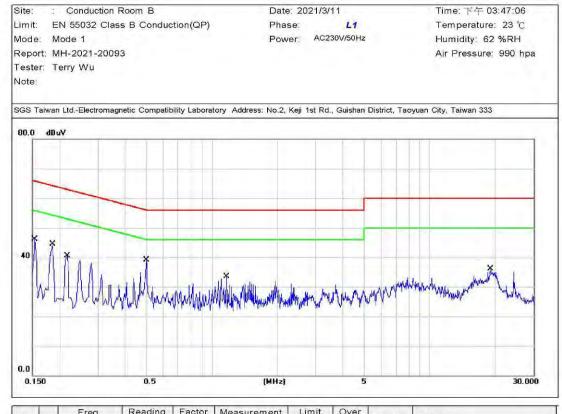
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2.4.4 Measurement Data(CE)

Model No.:S121 Mode_1_L



No. MK	Freq.	Reading	Factor	Measurement	Limit	Over	Detector		
NO.	Mk -	MHz (dBuV) (dB) (dBuV) (dBuV)	(dB)	Detector	Comment				
1		0.1545	19.19	19.78	38.97	65.75	-26.78	QP	
2		0.1545	3.40	19.78	23.18	55.75	-32.57	AVG	1
3		0.1860	19.37	19.77	39.14	64.21	-25.07	QP	
4		0.1860	2.34	19.77	22.11	54.21	-32.10	AVG	
5		0.2175	16.48	19.79	36.27	62.91	-26.64	QP	
6		0.2175	2.28	19.79	22.07	52.91	-30.84	AVG	
7		0.5010	12.75	20.35	33.10	56.00	-22.90	QP	
8	*	0.5010	5.05	20.35	25.40	46.00	-20.60	AVG	
9		1.1715	6.20	20.10	26.30	56.00	-29.70	QP	
10		1.1715	-1.10	20.10	19.00	46.00	-27.00	AVG	
11		19.1220	9.68	20.22	29.90	60.00	-30.10	QP	
12		19.1220	0.78	20.22	21.00	50.00	-29.00	AVG	

*:Maximum data

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x:Over limit l:over margin

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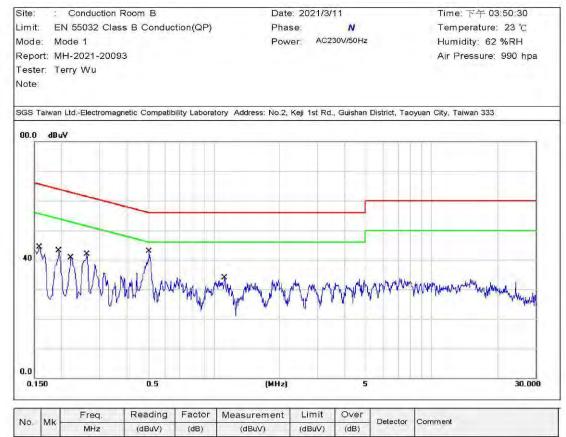
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Mode_1_N



No. MK		Freq.	Reading	Factor	Measurement	Limit	Over	Patrotes	
NO.	Mk -	MHz		(dB)	Detector	Comment			
1		0.1590	22.58	19.77	42.35	65.52	-23.17	QP	2
2		0.1590	5.95	19.77	25.72	55.52	-29.80	AVG	
З		0.1950	21.85	19.75	41.60	63.82	-22.22	QP	
4		0.1950	5,95	19.75	25.70	53.82	-28.12	AVG	
5		0.2220	18.25	19.79	38.04	62.74	-24.70	QP	
6		0.2220	4.80	19.79	24.59	52.74	-28.15	AVG	
7		0.2625	15.83	19.87	35.70	61.35	-25.65	QP	
8		0.2625	4.33	19.87	24.20	51.35	-27.15	AVG	
9		0.5055	17.95	20.35	38.30	56.00	-17.70	QP	
10	*	0.5055	12.75	20,35	33.10	46.00	-12.90	AVG	
11		1.1220	9.45	20.05	29.50	56.00	-26.50	QP	
12		1.1220	5.05	20.05	25.10	46.00	-20.90	AVG	

*:Maximum data x:Over limit I:over margin

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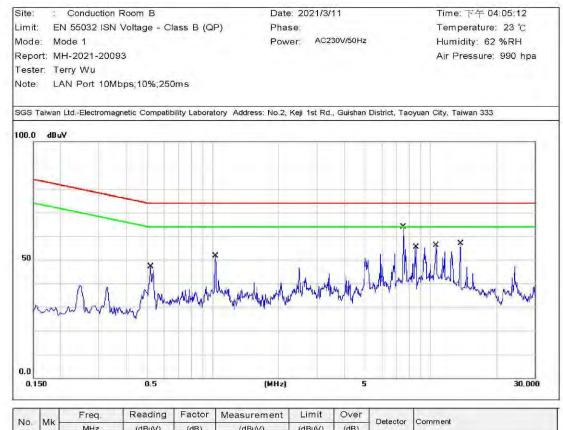
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2.4.5 Measurement Data(ISN)

Model No.:S121

Mode_1_10M



		Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Comment
No.	Mk -	MHz	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	Comment
1		0,5190	26.44	20.06	46.50	74.00	-27.50	QP	
2	· ·	0.5190	26.34	20.06	46.40	64.00	-17.60	AVG	
3		1.0275	31.39	19.61	51.00	74.00	-23.00	QP	
4	*	1.0275	29.59	19,61	49.20	64.00	-14.80	AVG	
5		7.4985	39.69	19.51	59.20	74.00	-14.80	QP	
6		7.4985	27.79	19.51	47.30	64.00	-16.70	AVG	
7		8.5875	29.06	19.49	48.55	74.00	-25.45	QP	
8		8.5875	18.50	19.49	37.99	64.00	-26.01	AVG	
9		10.5990	30.53	19.47	50.00	74.00	-24.00	QP	
10		10.5990	20.83	19.47	40.30	64.00	-23.70	AVG	
11		13.7490	29.60	19.53	49.13	74.00	-24.87	QP	
12		13.7490	18.12	19.53	37.65	64.00	-26.35	AVG	

*:Maximum data x:Over limit

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I:over margin

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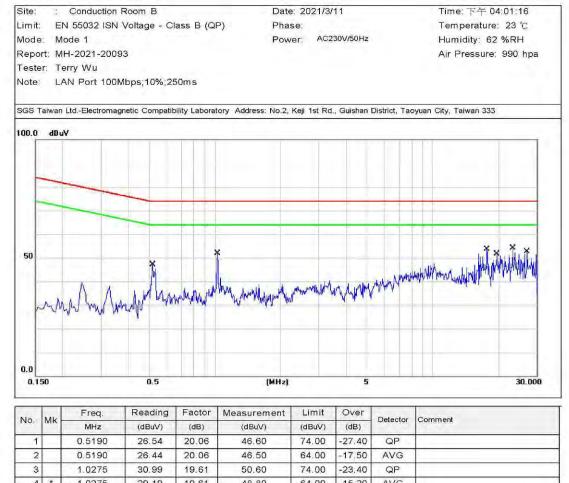
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Mode_1_100M



9		1.0275	30.99	19.01	50.00	14.00	-23.40	G.F	
4	*	1.0275	29.19	19,61	48.80	64.00	-15.20	AVG	
5		17.8305	29.03	19.60	48.63	74.00	-25.37	QP	
6		17.8305	10.35	19.60	29.95	64.00	-34.05	AVG	
7		19.7070	25.36	19.64	45.00	74.00	-29.00	QP	
8		19.7070	7.35	19.64	26.99	64.00	-37.01	AVG	
9		23.3250	30.86	19.75	50.61	74.00	-23.39	QP	
10		23.3250	10.23	19.75	29.98	64.00	-34.02	AVG	
11		27.1590	25.70	19.89	45.59	74.00	-28.41	QP	
12		27.1590	7.52	19.89	27.41	64.00	-36.59	AVG	

*:Maximum data x:Over limit l:over margin

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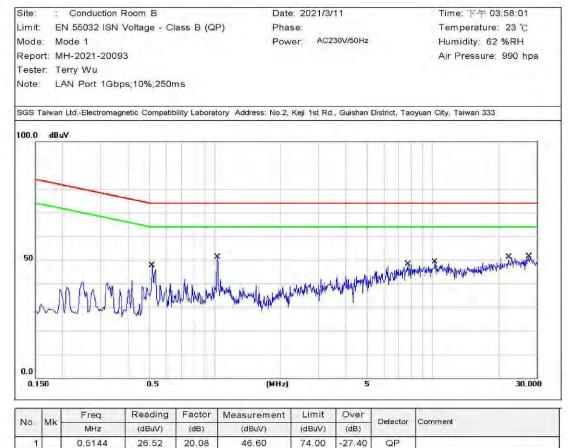
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Mode_1_1G



NO.	IVIG	MHz	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	Comment
1		0.5144	26.52	20.08	46.60	74.00	-27.40	QP	
2		0.5144	26.22	20.08	46.30	64.00	-17.70	AVG	
3		1.0275	31.29	19.61	50.90	74.00	-23.10	QP	
4	*	1.0275	29.49	19,61	49.10	64.00	-14.90	AVG	
5		7.6920	20.37	19.51	39.88	74.00	-34.12	QP	
6		7.6920	13.32	19.51	32.83	64.00	-31.17	AVG	
7		10.2660	22.37	19.46	41.83	74.00	-32.17	QP	
8		10.2660	16.23	19.46	35.69	64.00	-28.31	AVG	
9		22.3170	23.33	19.72	43.05	74.00	-30.95	QP	
10		22.3170	9.64	19.72	29.36	64.00	-34.64	AVG	
11	1	27.6495	23.82	19.91	43.73	74.00	-30.27	QP	
12		27.6495	7,43	19.91	27.34	64.00	-36.66	AVG	

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2.5 Test of Radiated Emission

2.5.1 Test Instruments

Below 1GHz

SGS Radiated_Below_1GHz HWAYA 10m_EMC											
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due						
EMI Test Receiver	R&S	ESCI 7	100950	2020/11/30	2021/11/29						
EMI Test Receiver	R&S	ESCI 3	101343	2021/2/2	2022/2/1						
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	2020/9/8	2021/9/7						
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	2020/9/14	2021/9/13						
Loop Antenna	COM-POWER	AL-130	121060	2020/5/8	2021/5/7						
Pre Amplifier	EMC Instruments	EMC330	980178	2020/3/31	2021/3/30						
Pre Amplifier	EMC Instruments	EMC330	980179	2020/3/31	2021/3/30						
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150917	2020/9/18	2021/9/17						
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150919	2020/9/18	2021/9/17						
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150820	2020/9/18	2021/9/17						
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150918	2020/9/18	2021/9/17						
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150821	2020/9/18	2021/9/17						
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150822	2020/9/18	2021/9/17						
Communication Tester	R&S	CMU200	114273	2020/5/31	2021/5/30						
Communication Tester	R&S	CMW500	152303	2021/2/24	2022/2/23						
Communication Tester	Anritsu	MT8820C	6201300479	2020/11/4	2021/11/3						
Site NSA	SGS	10m Chamber	10M SAC	2020/12/31	2021/12/30						
Test S/W	Farad	EZ-EMC	Ver. SGS 10m-03A2-5	N.C.R.	N.C.R.						

Testing Site : No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan

Measurement Uncertainty of Radiated Emission

Expanded uncertainty Ulab (k=2) of Radiated Emission is 4.43 dB.(30MHz-1000MHz)

Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.22 dB.(30MHz-1000MHz)

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Above 1GHz

SGS Radiated_Above_1GHz HWAYA 966B_EMC											
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due						
Spectrum Analyzer	R&S	FSV 40	101419	2020/5/29	2021/5/28						
EMI Test Receiver	R&S	ESR 7	101507	2020/8/27	2021/8/26						
Horn Antenna	Schwarzbeck	BBHA9120D	BBHA9120D673	2020/11/23	2021/11/22						
Pre Amplifier	R&S	SCU-18	10203	2020/3/26	2021/3/25						
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104	MY 5817/4	2020/3/26	2021/3/25						
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140923	2020/9/29	2021/9/28						
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140925	2020/9/29	2021/9/28						
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2020/9/29	2021/9/28						
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	520415/2	2020/6/5	2021/6/4						
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2020/6/5	2021/6/4						
Communication Tester	R&S	CMU200	114273	2020/5/31	2021/5/30						
Communication Tester	R&S	CMW500	152303	2021/2/24	2022/2/23						
Communication Tester	Anritsu	MT8820C	6201300479	2020/11/4	2021/11/3						
Site VSWR	SGS	966 Chamber B	SAC-B	2020/10/8	2021/10/7						
Test Software	Farad	EZ-EMC	Ver. SGS-03A2-5	N.C.R.	N.C.R.						
Testing Site : No 2 Keii 1s			ver. 363-03A2-5	N.C.R.	N.C.R.						

esting Site : No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan

Measurement Uncertainty of Radiated Emission

Expanded uncertainty Ulab (k=2) of Radiated Emission measurement is 4.90 dB.(1-6GHz)

Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.18 dB.(1-6GHz)

2.5.2 Measurement Level Calculation

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

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2.5.3 Measurement Data

Below 1GHz

Model No.:S121 Mode_3_H

Site:	SGS 10m C	Chamber			Date: 2	021/3/16		Time	: 上午 03:29	9:21
_imit:	EN55032 C	lass B 10m	Radiation		Polariza			perature: 2		
Mode:	Mode 3					AC230V/5		idity: 52 %I		
Report:	File :MH-20	21-20093			Distanc	e: 10m		Air F	ressure: 99	10 hpa
	Jeffrey Cho	u								
Note:										
SGS Taiv	van LtdElectro	magnetic Con	noatibility Labr	ratory Addre	ss: No.2 Keii	1st Rd Guis	han District T	aovuan City. T	aiwan 333	_
		indgrictic con	ipationity case			151 110., 200		acyaan ony, r		
80.0	dBu¥/m		111	1	11	-	111		Limit1:	-
									Margin:	-
-					-		_			-
40									-	
10		-				*		5		- St
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	,	× 3								
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0.0								1.1.1		
30.000	0 127.00	224.00	321.00	418.00	515.00	612.00	709.00	806.00	100	10.00 M

NIS	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Height	Degree	Detector	Commont
No.		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	Detector	Comment
1	I	166.8700	37.03	-11.11	25.92	30.00	-4.08	11		QP	
2	1	182.2900	37.63	-12.52	25.11	30.00	-4.89		l 11	QP	· · · · · · · · · · · · · · · · · · ·
3		220.7800	37.56	-13.93	23.63	30.00	-6.37			QP	
4	*	625.0200	37.57	-1.50	36.07	37.00	-0.93	136	360	QP	
5	1	750.0100	34.49	1.20	35.69	37.00	-1.31	1	11.000.01	QP	
6	1	1000.0000	33.04	3.00	36.04	37.00	-0.96			QP	

*:Maximum data x:Over limit l:over margin

Page: 1

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Report No.: MH/2021/20093 Page: 21 of 58

Mode_3_V

Site:	S	38 10m C	Chamber		Ę.	Date: 2021/3/	16	-	Ti	me:上午	03:29:20	
Limit:	E	N55032 C	lass B 10m Ra	adiation	F	Polarization:	Vert	tical	Te	emperatu	re: 20 °C	
Mode	: M	ode 3			F	Power: AC2	30V/50Hz	-	Hu	umidity: 5	52 %RH	
Repo	rt: Fi	le :MH-20	21-20093		C	Distance: 10r	r Pressur	e: 990 hp	a			
Teste	er: Je	offrey Cho	u									
Vote:												
SGS T	aiwan	LtdElectron	magnetic Compat	bility Labora	tory Address: N	o.2, Keji 1st Rd.	, Guishan	i District, Ta	aoyuan City	v, Taiwan 33	33	
80.0	dBu	V/m					1			Limit		П
										Limit Marg		
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40	-	_						_				
				SX .		ũ.						
1	12	3				1						
- 1												
0.0				-		Sec.			- 13	· · · · ·	and a	
30.0	000	127.00	224.00	321.00	418.00 5	15.00 612	.00	709.00	806.00		1000.00	MH
		Freq.	Reading	Factor	Measureme	nt Limit	Over	Height	Degree	12		
No.	Mk	MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	Detector	Comment	
	1			1			1	1	1		4	-

	8.81	a standar		Contraction of the contraction o			and the second second second			Detector	Comment
No.	Mk	MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	Detector	Comment
1	1	43.1500	35.44	-10.74	24.70	30.00	-5.30	1	11	QP	
2	1	51.2200	37.15	-11.13	26.02	30.00	-3.98	1.000	1	QP	
3	1	125.0600	36.85	-12.55	24.30	30.00	-5.70			QP	
4	*	166.8900	39.52	-10.79	28.73	30.00	-1.27	110	26	QP	
5	1	228.8500	38.04	-13.57	24.47	30.00	-5.53	1.000	10.00	QP	
6	1	307.4200	43.05	-9.84	33.21	37.00	-3.79	11 11		QP	

*:Maximum data x:Over limit l:over margin

Page: 1

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Above 1GHz

Model No.:S121

Mode 1 H



3		1780.000	64.12	-13,90	50.22	70.00	-19,78	10.000	1	peak	
-			114 01-0-1			10.100 A.C.L				. Los mentes	
4	-	1780.000	60.87	-13.90	46.97	50 00	-3.03			AVG	
5	1	2365.000	58.69	-10.53	48.16	70.00	-21.84	1	11.000	peak	
6		2365.000	54.56	-10.53	44.03	50.00	-5.97			AVG	
7		2445.000	58.64	-10.81	47.83	70.00	-22.17	1 ·····		peak	
8		2445.000	54.07	-10.81	43.26	50.00	-6.74			AVG	
9	1	2625.000	61.47	-10.57	50.90	70.00	-19.10	100	39	peak	
10	*	2625.000	57.66	-10.57	47.09	50.00	-2.91	100	39	AVG	
11		2970.000	63.13	-10.10	53.03	70.00	-16.97			peak	
12		2970.000	55.88	-10.10	45.78	50.00	-4.22			AVG	-

*:Maximum data x:Over limit

l:over margin

Page: 1

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Mode_1_V

Site:	1.1.1	GS 966 Cham				e: 2021/3/		N. LA		Time: 下午 10:08:16		
Limit:		N 55032 Clas	s B 1G-6G(Peak)		arization:	Verti			Temperature: 20 °C Humidity: 65 %RH		
Mode		ode 1				ver: AC 2						
		H-2021-2009	3		Dist	ance: 3m		Ai	r Pressur	e: 990 hp	a	
l este Note:		en Chen										
						_						
SGS Tan	wan Ltd	-Electromagnetic Com	patibility Laboratory	Address No.	2, Keji 1st Rd., Guishan Di	strict, Taoyuan C	ity, Taiwan 33	33				
100.0	dBu	W/m			_		1	- 1	- 1			T
		21										
1												
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				4	8							
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- L	0.000	1500.00 2	000.00 2	500.00	3000.00 3500	00 400	0.00	4500.00	5000.00	D	6000.00	мн
_		-	Deedler	Friday		13		1125254	Dennel		-	
No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	(cm)	Degree (deg.)	Detector	Comment	
1		1780.000	58.84	-13.90	44.94	70.00	-25.06	(0)	13-1	peak	-	-
2		2080.000	58.26	-12.20	46.06	70.00	-23.94			peak		
3		2080.000	52.45	-12.20	40.25	50.00	-9.75	-	1.1.1.1.1	AVG		
4	-	2625.000	63.42	-10.57	52.85	70.00	-17.15	100	248	peak		

*:Maximum data x:Over limit l:over margin

58.22

58.57

53.18

61.58

55.46

49.47

-10.57

-10.49

-10.49

-10.10

-10.10

-5.70

47.65

48.08

42.69

51.48

45.36

43.77

50.00

70.00

50.00

70.00

50.00

74.00

5

6

7

8

9

10

台灣檢驗科技股份有限公司

*

2625.000

2675.000

2675.000

2970.000

2970.000

5000.000

Page: 1

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100

-2.35

-21.92

-7.31

-18.52

-4.64

-30.23

248

AVG

peak

AVG

peak

AVG

peak

Report No.: MH/2021/20093 Page: 24 of 58



3. Harmonics

EN 61000-3-2 : 2014

3.1 Test Results

EN 61000-3-2 : 2014

PASS

3.2 Methods and Procedures

Standard	Edition	Description
EN 61000-3-2	2014	Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase).

3.3 Test Instruments

		SGS	Harmonic EN610	00-3-2 HwaYa_E	MC	
E	QUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
	Power Analyzer	TESEQ	CCN 1000-1	1504A02654	2020/9/21	2021/9/20
	AC Power Source	TESEQ	NSG 1007	1504A02654	2020/9/21	2021/9/20
	Test Software	TESEQ	Win2100 V4	Ver. 4.14.0	N.C.R.	N.C.R.
Те	sting Site : No.2, Kej	ji 1st Rd., Guish	an District, Taoyu	uan City, Taiwan		

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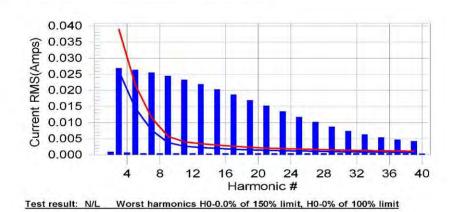
```
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3.4 Measurement Data

Model No.:S121 Mode_1

Harmonics	 Class-D per 	Ed. 5.0 (2018)(Run time) incl. inter-h	armonics
Test date: 2021/3 Test duration (m	lass-D per Ed. 5. 8/11 Sta in): 10 Da erature (C) 21 Hu	rt time: 下午 07: ta file name: H-0	an limits) 05:30	Fested by: Shan Fest Margin: 100 End time: 下午 0 ata	D
Fest Result: N/L Current & voltag		lification: Norma	al		
		-		(200
0.6				1	300 200 ≲
Current (Amps) 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1	/	1	1	200 volage 100 age 0 (volage - 100 ge
L 0.0 F		frand La	-	montend	-0
b -0.2		/			100
5		/			-200
-0.6					-300



Teseq AG Win2100 V4.26.0

Page 1 of 3

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	c	Current Te	est Result	Summary (R	un time)		
Test ca Test da Test du Comme	quipment Unde itegory: Class-D ate: 2021/3/11 uration (min): 10 ent: Temperatu ner: Customer	per Ed. 5. Sta Da	art time: 下4 ita file name	F 07:05:30 H-000065.cts	Tested by: Test Margir End time: data	1: 100) Di
		Source qua D(%): 226.2	alification: I POHC		POHC Limit(A): 0.003	
Highes	t parameter val V_RMS (Volts): I_Peak (Amps)	231.14 0.629	test:	Frequency(Hz) I_RMS (Amps)	: 0.109		
	I_Fund (Amps) Power (Watts):			Crest Factor: Power Factor:	6.629 0.362		
Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150% Limit	%of Limit	Statu
23	0.001	0.000	N/A N/A	0.001	0.000	N/A N/A	N
4	0.001	0.000	N/A	0.001	0.000	N/A	N
56	0.026	0.014	N/A N/A	0.032	0.022	N/A N/A	N
7	0.000	0.008	N/A	0.001	0.000	N/A	N
8	0.000	0.000	N/A	0.001	0.000	N/A	N
9	0.024	0.004	N/A	0.029	0.006	N/A	N
10	0.000	0.000	N/A	0.001	0.000	N/A	N
11	0.023	0.003	N/A	0.028	0.004	N/A	N
12	0.000	0.000	N/A	0.001	0.000	N/A	N
13	0.022	0.002	N/A	0.026	0.003	N/A	N
14	0.000	0.000	N/A	0.001	0.000	N/A	N
15	0.020	0.002	N/A	0.023	0.003	N/A	N
16	0.000	0.000	N/A	0.001	0.000	N/A	N
17	0.019	0.002	N/A N/A	0.021	0.003	N/A N/A	N
19	0.000	0.000	N/A	0.001	0.002	N/A	N
20	0.000	0.000	N/A	0.001	0.000	N/A	N
21	0.015	0.001	N/A	0.017	0.002	N/A	N
22	0.000	0.000	N/A	0.001	0.000	N/A	N
23	0.013	0.001	N/A	0.014	0.002	N/A	N
24	0.000	0.000	N/A	0.001	0.000	N/A	N
25	0.012	0.001	N/A	0.012	0.002	N/A	N
26	0.000	0.000	N/A	0.001	0.000	N/A	N
27	0.010	0.001	N/A	0.010	0.002	N/A	N
28	0.001	0.000	N/A	0.001	0.000	N/A	N
29	0.009	0.001	N/A	0.009	0.002	N/A	N
30	0.001	0.000	N/A	0.001	0.000	N/A	N
31	0.007	0.001	N/A	0.008	0.001	N/A	N
32 33	0.001 0.006	0.000	N/A N/A	0.001	0.000	N/A	N
33	0.008	0.001	N/A	0.007	0.001	N/A N/A	N
35	0.001	0.000	N/A	0.001	0.000	N/A	N
36	0.000	0.000	N/A	0.008	0.000	N/A	N
37	0.005	0.000	N/A	0.001	0.000	N/A	N
38	0.000	0.000	N/A	0.000	0.000	N/A	N
39	0.004	0.001	N/A	0.001	0.001	N/A	N
	0.000	0.001		0.000	0.001	IN/A	N

Note: The EUT power level is below 75.0 Watts and therefore has no defined limits

Teseq AG Win2100 V4.26.0

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	Vol	tage Sou	urce Verificatio	on Data (R	un time)	
Test cate Test date Test dura Comment	: 2021/3/11 tion (min): 10	per Ed. 5. Sta Da	0 (2018) (Europe: art time: 下午 07:(ta file name: H-0 umidity (%) 67	an limits) T 05:30 E	ested by: Shan Wang est Margin: 100 nd time: 下午 07:15:4 ata	2
Test Resu	lt: N/L s	Source qua	alification: Norma	al		
Highest p	arameter valu	es during	test:			
	bitage (Vrms): Peak (Amps): Fund (Amps): ower (Watts):	231.14 0.629	Freq L_RM Cres	uency(Hz): MS (Amps): st Factor: ver Factor:	50.00 0.109 6.629 0.362	
Harm#	Harmonics	V-rms	Limit V-rms	% of Limi	t Status	
3 4 5 6 7 8 9 0 11 12 3 14 5 6 7 8 9 0 11 12 3 14 5 6 7 8 9 0 11 12 3 14 5 6 7 8 9 0 13 14 5 6 7 8 9 0 11 12 3 14 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 3 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 4 5 6 7 8 9 0 11 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		0.412 0.015 0.041 0.020 0.032 0.014 0.021 0.018 0.009 0.015 0.005 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.018 0.014 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.004 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.012 0.011 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.015 0.004 0.015 0.005 0.015 0.004 0.015 0.005 0.015 0.005 0.015 0.005 0.015 0.005 0.015 0.005 0.015 0.005 0.015 0.005 0.015 0.005 0.015 0.005 0.015 0.005 0.015 0.005 0.015 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.002 0.0011 0.002 0.0011 0.002 0.0011 0.002 0.0011 0.002 0.0011 0.002 0.0011 0.002 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.002 0.002 0.002 0.002	2.080 0.462 0.924 0.462 0.462 0.462 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231 0.231	$\begin{array}{c} 19.8\\ 3.11\\ 4.4\\ 4.25\\ 3.00\\ 4.44\\ 2.43\\ 7.97\\ 3.77\\ 6.44\\ 2.07\\ 6.37\\ 1.8\\ 6.65\\ 7.97\\ 6.12\\ 8.26\\ 1.66\\ 5.39\\ 7.61\\ 1.8\\ 2.11\\ 8.26\\ 1.66\\ 1.24\\ 5.44\\ 1.26\\ 5.44\\ 1.26\\ 3.66\\ 1.24\\ 5.44\\ 1.26\\ 3.66\\ 1.26\\ 5.56\\ 1.26\\ 5.56\\ 1.26\\ 5.56\\ 1.26\\ 5.56\\ 1.26\\ 5.56\\ 1.26\\ 5.56\\ 1.26\\ 5.56\\ 1.26\\ 1.26\\ 5.56\\ 1.26\\ 1.26\\ 5.56\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 1.26\\ 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Note : Equipment with a rated power of 75 W or less other than lighting equipment, the limits are not specified in this edition of the standard.

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4. Flicker

EN 61000-3-3 : 2013+A1:2019

4.1 Test Results

EN 61000-3-3 : 2013+A1:2019 PASS

4.2 Methods and Procedures

Standard	Edition	Description
EN 61000-3-3	2013+A1: 2019	Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection.

4.3 Test Instruments

	SGS	S Flicker EN6100	0-3-3 HwaYa_EN	1C	
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Power Analyzer	TESEQ	CCN 1000-1	1504A02654	2020/9/21	2021/9/20
AC Power Source	TESEQ	NSG 1007	1504A02654	2020/9/21	2021/9/20
Test Software	TESEQ	Win2100 V4	Ver. 4.14.0	N.C.R.	N.C.R.
Testing Site : No.2, Ke	ji 1st Rd., Guish	an District, Taoyu	uan City, Taiwan		

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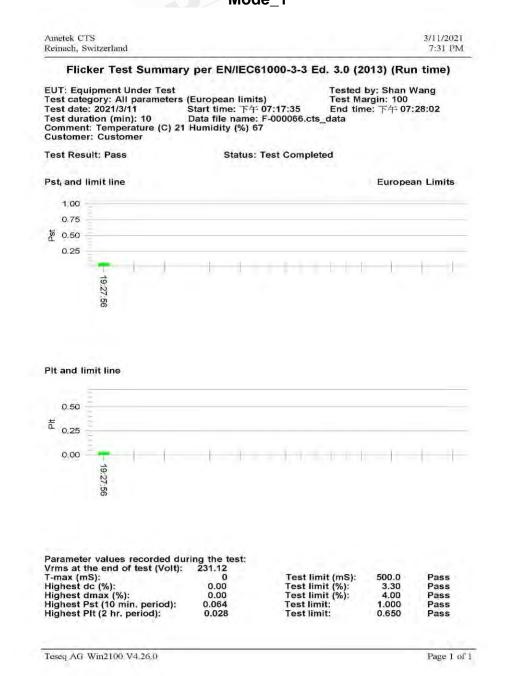
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4.4 Measurement Data

Model No.:S121 Mode_1



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5. IMMUNITY

EN 55024 : 2010+A1:2015

5.1 Test Results

Standard	Performance Criteria	Result
IEC 61000-4-2 : 2008	В	PASS
IEC 61000-4-3 : 2006+A1:2007+A2:2010	A	PASS
IEC 61000-4-4 : 2012	В	PASS
IEC 61000-4-5 : 2014+A1:2017	В	PASS
IEC 61000-4-6 : 2013	A	PASS
IEC 61000-4-8 : 2009	A	PASS
IEC 61000-4-11 : 2004+A1:2017	C/C/B	PASS

5.2 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.

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5.3 Test of IEC 61000-4-2

5.3.1 Methods and Procedures

Standard	Edition	Description
IEC 61000-4-2	2008	Electrostatic Discharge (ESD)

5.3.2 Test Instruments

	SGS	ESD EN61000-4-	2 HwaYa No.1_E	EMC	
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
ESD Simulator	NoiseKen	ESS-B3011	ESS12Z5075	2020/9/21	2021/9/20
HCP	N/A	1.6 x 0.8 m	N/A	N.C.R.	N.C.R.
VCP	N/A	0.5 x 0.5 m	N/A	N.C.R.	N.C.R.
Testing Site : No.2, Kej	ji 1st Rd., Guish	an District, Taoyu	uan City, Taiwan		

5.3.3 EUT Operating Condition

2

Environment

Temperature	Humidity
22 °C	56 %RH

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5.3.4 Results of Electrostatic Discharge Test (ESD)

Model No.: S121	
Tested By	: Ricky Chen
Tested Date	: Mar. 10, 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 : <u>+</u> 2, 4 kV
	HCP/VCP : <u>+</u> 2, 4 kV
Polarity	: Positive/Negative
Number of Discharge	: 25 times at each test point
Discharge Mode	: Single Discharge
Discharge Period	: 1 second
Note 1 : For contact d	ischarge, the EUT shall be exposed to at least 200 discharges,
100 each at neo	gative and positive polarity. All tests according to sec. 4.2.1 of

EN 55024 : 2010+A1:2015.

A.Observations : Test points: N/A

TCSt points. IV					
Dire	ct Applicati	ion	Test Results		
Discharge Level (kV)	Polarity (+/-)	Test Point	Contact Discharge	Air Discharge	
2, 4, 8(Air.)	+/-	N/A	N/A	N/A	
2, 4(Cont.)	+/-	N/A	N/A	N/A	

Remark: N/A : Not Applicable.

B.Observations:

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

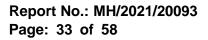
Indirect Application			Test Re	sults
Discharge Level (kV)	Polarity (+/-)	Test Point	Horizontal Coupling	Vertical Coupling
2, 4	+/-	1 - 4	А	A

Remark: A : No degradation of performance or loss of function. N/A : Not Applicable.

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5.4 Test of IEC 61000-4-3

5.4.1 Methods and Procedures

Standard	Edition	Description
IEC 61000-4-3	2006+A1:2007+A2:2010	Radio-Frequency Electromagnetic Field Susceptibility Test, RS

5.4.2 Test Instruments

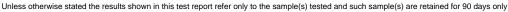
SGS RS EN61000-4-3 HWAYA SAC-F_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
RS Test Site	Chance Most	8*5*3 Chamber	SAC-F	2021/2/24	2022/2/23
Signal Generator	R&S	SMB 100A	114674	2020/11/6	2021/11/5
Power Sensor	R&S	NRP-Z11	112186	2020/4/13	2021/4/12
Power Sensor	R&S	NRP-Z11	111682	2020/4/15	2021/4/14
Power Amplifier	R&S	BBA100	101075	N.C.R.	N.C.R.
Power Amplifier	R&S	BBA100	101021	N.C.R.	N.C.R.
Power Amplifier	R&S	BBA150	102229	N.C.R.	N.C.R.
E-Field Generating Antenna	ifi	EFG-3	U2137-0217	N.C.R.	N.C.R.
High Gain Log-Per. Antenna	R&S	HL046E	100112	N.C.R.	N.C.R.
Calibrated Broadband Log-Per. Test-Antenna	Schwarzbeck	STLP 9149	9149-151	N.C.R.	N.C.R.
Electric Field Probes	AR	FL7006+FI7000	0330722+0330847	2020/7/24	2021/7/23
Communication Tester	R&S	CMU200	114273	2020/5/31	2021/5/30
Communication Tester	R&S	CMW500	152303	2021/2/24	2022/2/23
Test Software	R&S	EMC 32	V10.20.01	N.C.R.	N.C.R.
Testing Site : No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan					

5.4.3 EUT Operating Condition

:

Environment

Temperature	Humidity
22 °C	59 %RH



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5.4.4 Results of Radiated Radio Frequency Electromagnetic (RS)

F	
Test distance	: 3 m
Dwell Time	: 3 seconds
Polarity of Antenna	: Horizontal and Vertical
Frequency step	: 1 % of fundamental
Modulation	: 80% AM (1kHz)
Field strength	: 3 V/m
Frequency range	: 80 MHz - 1000 MHz
Basic Standard	: IEC 61000-4-3
Test Mode	: Mode 1
Tested Date	: Mar. 15, 2021
Tested By	: Chuck Lu
Model No.: S121	

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

Remark: A : No degradation of performance or loss of function. N/A : Not Applicable.

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5.5 Test of IEC 61000-4-4

5.5.1 Methods and Procedures

Standard	Edition	Description
IEC 61000-4-4	2012	Electrical fast transient/burst requirements

5.5.2 Test Instruments

SGS EFT EN61000-4-4 HwaYa No.2_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Burst Generator	TESEQ	NSG 3060	1763	2020/7/21	2021/7/20
Clamp Thermo CCL 612359 2020/12/29 2021/12/28					2021/12/28
Testing Site : No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan					

5.5.3 EUT Operating Condition

:

Environment

Temperature	Humidity
23 °C	61 %RH

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5.5.4 Results of Electrical Fast Transient (EFT)

Model No.: S121	
Tested By	: Chuck Lu
Tested Date	: Mar. 15, 2021
Test Mode	: Mode 1
Basic Standard	: IEC 61000-4-4
Test Voltage	: AC Input: ± 1 kV, 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	+/-	1	В
N	+/-	1	В
PE	+/-	1	N/A
L-N	+/-	1	В
L-PE	+/-	1	N/A
N-PE	+/-	1	N/A
L-N-PE	+/-	1	N/A
DC Input	+/-	0.5	N/A
Signal/Comm.	+/-	0.5	В

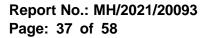
Remark: B : During test, the EUT's function degradation. After test, it recovery by itself.

> N/A : The EUT power from AC mains (without PE exist), no necessary to perform test.

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5.6 Test of IEC 61000-4-5

5.6.1 Methods and Procedures

Standard	Edition	Description
IEC 61000-4-5	2014+A1:2017	Surge immunity test

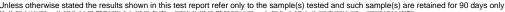
5.6.2 Test Instruments

SGS Surge EN61000-4-5 HwaYa No.2_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Surge Tester	TESEQ	NSG3060	1763	2020/7/21	2021/7/20
Surge Tester	TESEQ	NSG3060	1976	2020/7/21	2021/7/20
Surge Tester	TESEQ	CDN3061	1541	2020/7/21	2021/7/20
Universal Surge CDN	EMC Partner	CDN-UTP8-ED3	CDN-UTP8-1516	2020/6/20	2021/6/19
Testing Site : No.2, Keji	1st Rd., Guish	an District, Taoy	uan City, Taiwan		

5.6.3 EUT Operating Condition

Environment

Temperature	Humidity
23 °C	61 %RH



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5.6.4 Results of Surge Test

Model No.: S12	1
Tested By	: Chuck Lu
Tested Date	: Mar. 15, 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 De	• • • •

AC input line:

Test Point	Phase Angle (degree)	Polarity (+/-)	Test Level (kV)	Observation
L – N	0, 90, 180, 270	+/-	1	А
L – PE	0, 90, 180, 270	+/-	2	N/A
N – PE	0, 90, 180, 270	+/-	2	N/A

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

N/A : The EUT power from AC mains (without PE exist) and no signal/Comm. port cable exist, no necessary to perform test.

DC input line:

Test Point	Phase Angle (degree)	Polarity (+/-)	Test Level (kV)	Observation
DC input	No phase angle (degree)	+/-	0.5	N/A

Remark: N/A : The EUT power from AC mains, no necessary to perform test.

Signal line: Test Rate

: 1 pulse every minute

No. of Tests : 5 positive and 5 negative pulses

: 10/700µs Waveform

Observation Description

Signal line:

Test Point	Phase Angle (degree)	Polarity (+/-)	Test Level (kV)	Observation
Signal I/O	No phase angle (degree)	+/-		N/A

Remark: N/A : POE LAN not use in outdoor, no necessary to perform test.

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5.7 Test of IEC 61000-4-6

5.7.1 Methods and Procedures

Standard	Edition	Description
IEC 61000-4-6	2013	Immunity to conducted disturbances, induced by radio-frequency fields.

5.7.2 Test Instruments

	SGS CS E	N61000-4-6 HWA	YA SR-D_EMC	;	
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Signal Generator	Agilent	8648C	4108A05772	2020/3/26	2021/3/25
Power Sensor	R&S	NRVD	837794/029	2020/8/17	2021/8/16
Power Sensor	R&S	URV5-Z2	835640/015	2020/8/17	2021/8/16
Power Sensor	R&S	URV5-Z2	835640/016	2020/8/17	2021/8/16
Dual Directional Coupler	OSR	C21A8	33	N.C.R.	N.C.R.
Conducted Immunity System	Frankonia	CIT-10	102D3226	N.C.R.	N.C.R.
CDN	TESEQ	CDN M116	37673	2020/5/7	2021/5/6
CDN	FCC	FCC-801-M3-16A	99122	2020/5/11	2021/5/10
CDN	TESEQ	CDN T8-10	37212	2020/5/11	2021/5/10
CDN	TESEQ	CDN ST08A	30191	2021/3/2	2022/3/1
EM Injection Clamp	TESEQ	KEMZ 801A	33430	2020/6/4	2021/6/3
Test Software	Audix	i2	20191209	N.C.R.	N.C.R.
Testing Site : No.2, Keji 1st R	d., Guishan D	istrict, Taoyuan Ci	ty, Taiwan		

5.7.3 EUT Operating Condition

Environment

Temperature	Humidity
21 °C	45 %RH

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5.7.4 Results of Immunity to Conducted Disturbances (CS)

Model No.: S121		
Tested By	: Jack Hsu	
Tested Date	: Mar. 11, 2021	
Test Mode	: Mode 1	
Basic Standard	: IEC 61000-4-6	
Frequency range	: 0.15 MHz - 80 MHz	
Field strength	: 3 Vrms	
Modulation	: 80% AM, 1 kHz Sinewave	
Frequency step	: 1 % of fundamental	
Dwell Time	: 3 seconds	
Coupling Method	: CDN 2 Lines, RJ45	
Cable Descriptio	n Frequency (MHz)	Observation
AC input	0.15 – 80	А
DC input	0.15 - 80	N/A

Signal Ports

Cable Description	Frequency (MHz)	Observation
Signal/Comm.	0.15 – 80	A

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

N/A : The EUT power from AC mains, no necessary to perform test.

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5.8 Test of IEC 61000-4-8

5.8.1 Methods and Procedures

Standard	Edition	Description
IEC 61000-4-8	2009	Power Frequency Magnetic Field Immunity Test

5.8.2 Test Instruments

SGS PFMF EN61000-4-8 HwaYa_EMC						
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due	
Magnetic Field Generator	Narda S.T.S.	PMM 1008	0100X30601	2020/11/10	2021/11/9	
AC CLAMP METER	CHY	96	12002769	2020/9/3	2021/9/2	
Triax Elf Magnetic Field Meter	F.W. BELL	4180	1248004	2020/7/10	2021/7/9	
Testing Site : No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan						

5.8.3 EUT Operating Condition

Environment

Temperature	Humidity
22 °C	60 %RH

5.8.4 Result of Immunity to Power Frequency Magnetic Field

Model	No.:	S121
Tootod	Dv/	

Tested By
Tested Date
Test Mode
Basic Standard
Power Frequency
Magnetic Field
Coil Orientation
Observation

: Chuck Lu : Mar. 15, 2021 : Mode 1 : IEC 61000-4-8 : 50 and 60 Hz : 1 A/m(r.m.s) : X, Y, Z Axis : A

Remark: A : No degradation of performance or loss of function. N/A : Not Applicable.

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5.9 Test of IEC 61000-4-11

5.9.1 Methods and Procedures

Standard	Edition	Description
IEC 61000-4-11	2004+A1:2017	Voltage dips, short interruptions and voltage variations immunity tests

5.9.2 Test Instruments

SGS DIP EN61000-4-11 HwaYa No.2_EMC						
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due	
EMS Multi-Tester	TESEQ	INA 6502	209	2020/7/21	2021/7/20	
EMS Multi-Tester	TESEQ	NSG3060	1763	2020/7/21	2021/7/20	
Testing Site : No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan						

5.9.3 EUT Operating Condition

Environment

Temperature	Humidity
23 °C	61 %RH

5.9.4 Results of Voltage Dips Immunity Test

Model No.: S121	
Tested By	: Chuck Lu
Tested Date	: Mar. 15, 2021
Test Mode	: Mode 1
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

Environmental phenomena	Test specification (% reduction)	Duration (in periods of the rated frequency)	Observation
Voltage Interruptions	>95	250	С
Valtaga dina	>95	0.5	А
Voltage dips	30	25	A

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

- C : During and after test power turn off automatically. Turn ON/OFF by manual could return to normal operation.
- N/A : Not Applicable.

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APPENDIX - Constructional Details

Photography of General Testing Set-up	44-53
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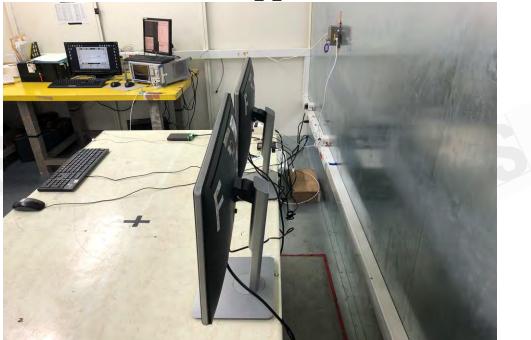


Photograph of Testing General Set-up **CE Testing Set-up**

Model No.:S121 Mode_1_+



Mode_1_-



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Model No.:S121 Mode_1_+



Mode_1_-



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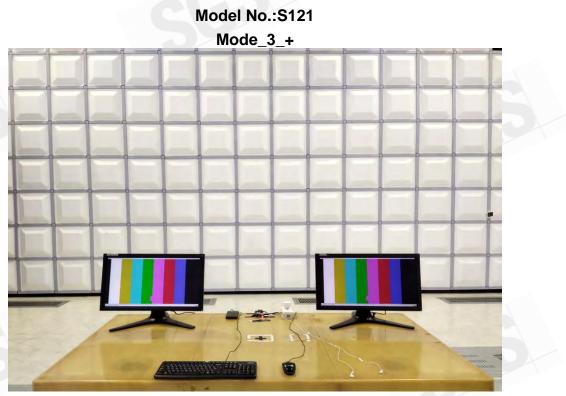
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RE Testing Set-up Below 1GHz



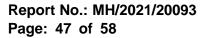
Mode_3_-



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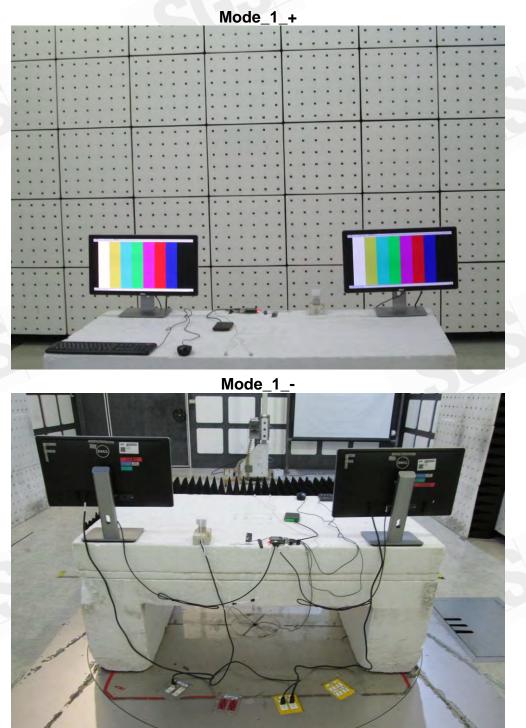
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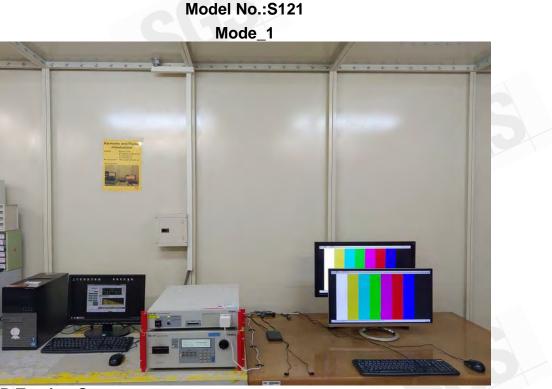
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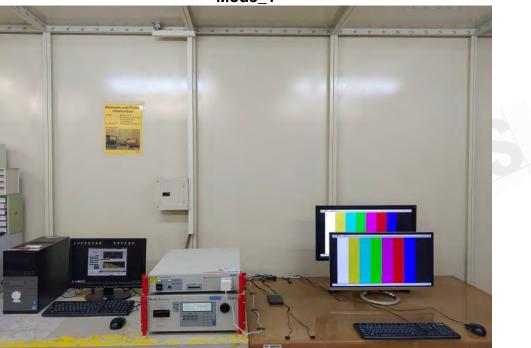
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HARMONIC Testing Set-up



FLICKER Testing Set-up

Model No.:S121 Mode_1



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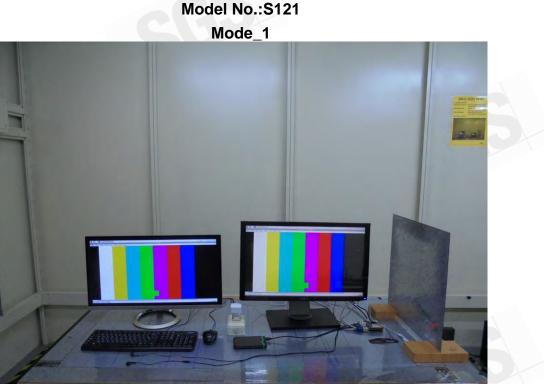
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RS Testing Set-up

Model No.:S121 Mode_1



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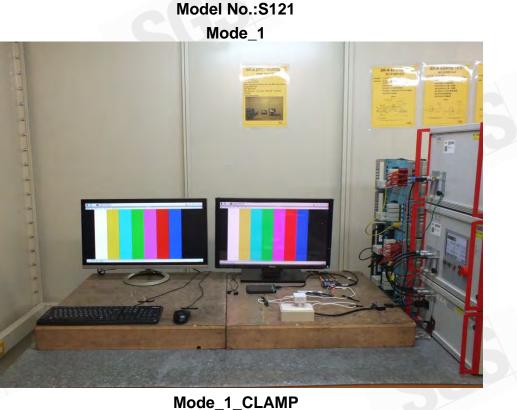
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Surge Testing Set-up

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Model No.:S121 Mode_1

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Mode_1 Mode 1 RJ45

Model No.:S121

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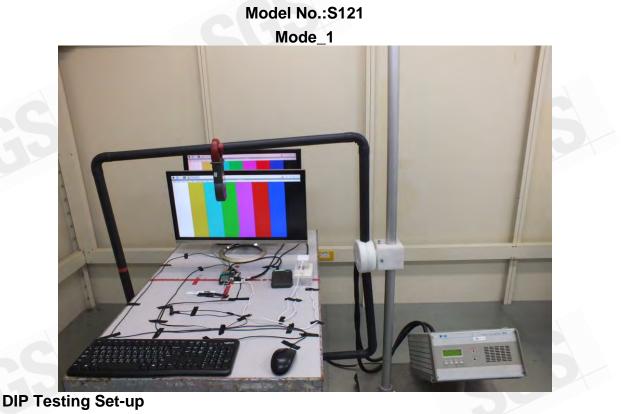
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PFMF Testing Set-up







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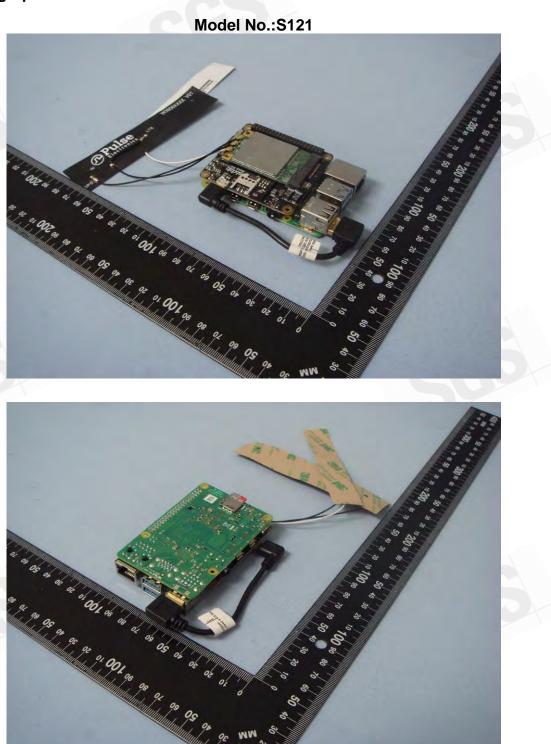
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Photographs of EUT Unit



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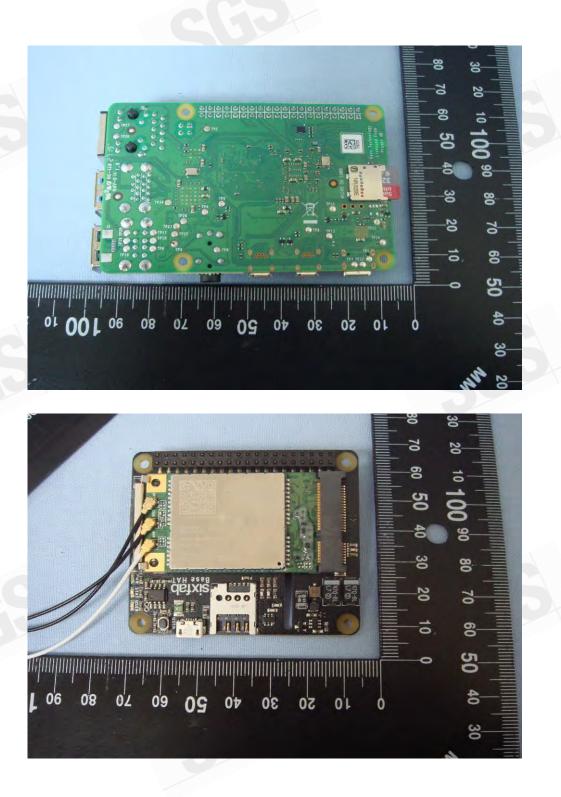
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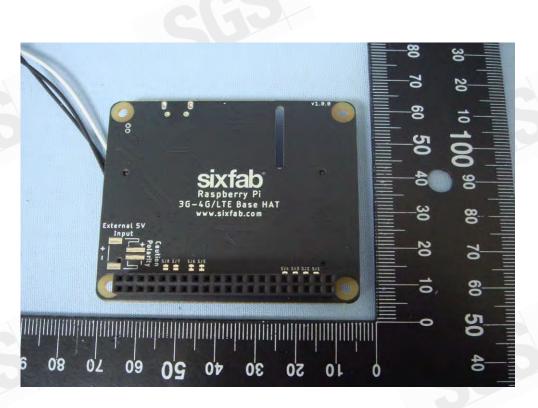
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No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan / 桃園市龜山區科技一路 2 號 SGS Taiwan Ltd.





** End of Report **

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No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan / 桃園市龜山區科技一路 2 號 SGS Taiwan Ltd. t (886-2) 2299-3279 台灣檢驗科技股份有限公司

f (886-3) 327-7559