

FCC TEST REPORT

Project No. : TM-2203000661P
Applicant : FIH CO., LTD.
Address : No.4, Minsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan
Manufacturer : FIH CO., LTD.
Address : No.4, Minsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan

Equipment Under Test (EUT) :

Product Name : Internet Gateway
Brand Name : FIH
Model No. : FSNO21VA
Added Model(s) : N/A

Standards : 47 CFR FCC Part 15 Subpart B (Class B)

Date of Sample Receipt : Mar. 31, 2022

Date of Test : May. 04 ~ 06, 2022

Date of Issue : May 13, 2022

Test Result : **PASS**

In the configuration tested, the EUT complied with the standards specified above.

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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Approved By



Date

May 13, 2022

Eddy Cheng
(Assistant Supervisor)



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Revision History

Revision	Report Number	Description	Issue Date
00	TMHY2203000499YE	Original.	May 13, 2022

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1. General Information

1.1 Applicant & Manufacturer Information

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Address of Applicant : No.4, Minsheng St., Tu-Cheng Dist., New Taipei City
23679, Taiwan

Manufacturer : FIH CO., LTD.

Address of Manufacturer : No.4, Minsheng St., Tu-Cheng Dist., New Taipei City
23679, Taiwan

1.2 General Description of EUT

Product Name : Internet Gateway

Brand Name : FIH

Model No. : FSNO21VA

Added Model(s) : N/A

Model Difference : N/A

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1.3 Details of EUT

Power Supply	: AC100~240V, 50/60Hz		
Modes/Function	: Mode 1: EUT+RJ45 Link+WiFi 2.4G Link+WiFi 5G Link+LTE B2 Link+Adapter(A929-120300W-US1) Mode 2: EUT+RJ45 Link+WiFi 2.4G Link+WiFi 5G Link+5G n2 Link+Adapter(ADS-40FSI-12 12036EPCU)		
Worst case	: CE Worst case	: Mode 1	
	Below 1GHz RE Worst case	: Mode 1	
	Above 1GHz RE Worst case	: Mode 1	
Highest internal frequency	: 5895 MHz		
Adapter	: Model No.: A929-120300W-US1 Supplier: Jiangxi Jian Aohai Technology Co., Ltd. I/P: 100~240V, 50/60Hz, 1.2A O/P: 12V, 3A		
	Model No.: ADS-40FSI-12 12036EPCU Supplier: SHENZHEN HONOR ELECTRONIC CO.,LTD I/P: 100~240V, 50/60Hz, 1A O/P: 12V, 3A		

1.4 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
SIM Card	R&S	CMW-Z05	8.95253E+18
Notebook(1)	DELL	P56F	59WSJ72
Notebook(2)	Lenovo	L430	R9-XTECP 13/03
Notebook(3)	DELL	Latitude E5430	COVZYW1
Notebook4)	Lenovo	L412	LR-ZYMYD 10/12
Notebook(5)	DELL	Latitude E6440	CYRVQ32
Notebook(6)	DELL	P37G	H55Z0Z1
Notebook(7)	DELL	P56F	59WSJ72
Radio Communication Analyzer	ANRITSU	MT8821C	N/A

Support Equipment Used in Tested Cable

Cable Type	Core	Length	Shielding/Non-shielding
RJ45 cable*3	N/A	>10m	Non-shielding

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1.5 Operation Procedure

Mode 1

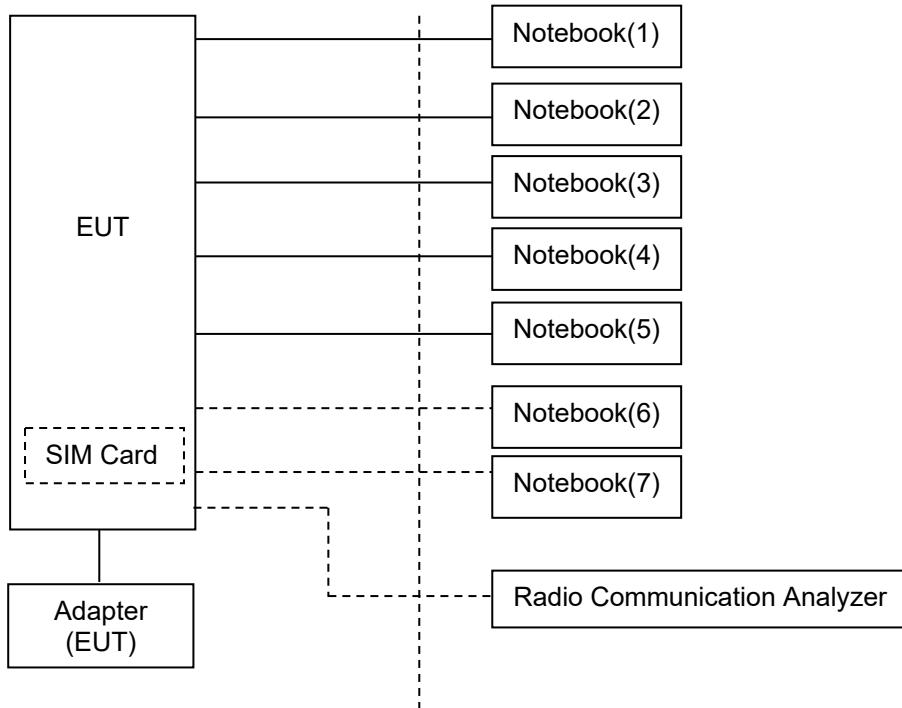
1. Connect the EUT to the Adapter and turn it on.
2. LAN*5 is connected to the remote Notebook*5, the remote Notebook pings the EUT IP (192.168.1.1).
3. Set up the base station and execute LTE B2 Link.
4. NB WiFi Link EUT (WiFi 5G), then execute ping EUT IP (192.168.1.1).
5. NB WiFi Link EUT (WiFi 2.4G), then execute ping EUT IP (192.168.1.1).
6. Start the test.

1.6 Accessories Cable List

Cable Type	Core	Length	Shielding/Non-shielding
DC power cable*2	N/A	1.8m	Non-shielding
RJ45 cable*2	N/A	1.5m	Non-shielding

1.7 Test Set-Up Configuration

Mode 1



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1.8 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2014 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2014 at the 3/10m semi-anechoic chamber. The EUT was placed on a 0.8m high table along with the peripherals. The turn table was placed 3/10m distance from the antenna. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequency and amplitude of the worse emissions were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.9 Standards Applicable for Testing

Tests to be carried out under 47 CFR FCC Part 15 Subpart B/CISPR 22

Test Standards	Status
47 CFR FCC Part 15 Subpart B CISPR 22	Applicable
Deviation from Standard	No deviation

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1.10 Decision Rules of Results

Reported measurement data comply with 47 CFR FCC Part 15 Subpart B.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

1.11 Summary of Results

Standard	Test Type	Result
47 CFR FCC Part 15 Subpart B (Class B)	Conducted Emission	PASS
	Radiated Emission	PASS

1.12 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

2.1 Test Results

Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

47 CFR FCC Part 15 Subpart B:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

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2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

47 CFR FCC Part 15 Subpart B:

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.5 - 5	73	60	56	46
5.0 - 30	73	60	60	50

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

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2.3.2 Limits of Radiated Emissions

47 CFR FCC Part 15 Subpart B Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10 m)	Class B (at 3 m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.4	46
960~1000	49.5	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV/m) (at 3 m)		Class B (dBuV/m) (at 3 m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

CISPR 22 Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10 m)	Class B (at 10 m)
	dBuV/m	dBuV/m
30~230	40	30
230~1000	47	37

Note: 1. The lower limit shall apply at the transition frequency.
2. Additional provisions may be required for cases where interference occurs.

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2.4. Test of Conducted Emission

2.4.1 Test Equipments

SGS Conducted_Emission HWAYA Conducted Room No.A_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI	101311	2021/7/5	2022/7/4
Coaxial Cables	EMC Instruments Corp.	HY-CE-CABLE	HYCE-2000-01	2021/5/19	2022/5/18
LISN	Schwarzbeck	NSLK 8127	8127-648	2021/7/11	2022/7/10
LISN	Schwarzbeck	NSLK 8128	NSLK8128-300	2021/8/26	2022/8/25
Pulse Limiter	Narda S.T.S.	PMM PL01	1110X30602	2021/8/12	2022/8/11
Test Software	Farad	EZ-EMC	Ver. SGS-03A2-10	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 CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Conducted Emission measurement is 3.44 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

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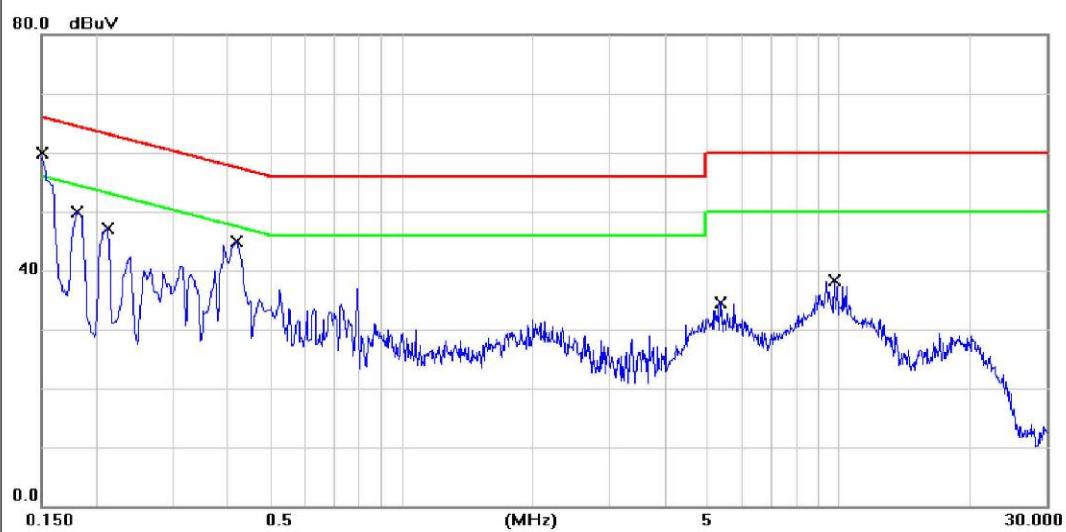
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2.4.3 Measurement Data:**Model No.: FSNO21VA****Mode_1_L**

Site: Conduction Room A	Date: 2022/5/4	Time: 下午 03:11:08
Limit: FCC Class B Conduction(QP)	Phase: L1	Temperature: 23 °C
Mode: Mode 1	Power: AC120V/60Hz	Humidity: 64 %RH
Report: TMHY2203000499YE		atm pressure: 990 mbar
Tester: Shan Wang		
Note:		

SGS Taiwan Ltd.-Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.1500	54.06	0.05	54.11	66.00	-11.89	QP	
2		0.1500	38.36	0.05	38.41	56.00	-17.59	AVG	
3		0.1815	47.98	0.05	48.03	64.42	-16.39	QP	
4		0.1815	33.21	0.05	33.26	54.42	-21.16	AVG	
5		0.2130	41.74	0.05	41.79	63.09	-21.30	QP	
6		0.2130	27.96	0.05	28.01	53.09	-25.08	AVG	
7		0.4200	43.15	0.05	43.20	57.45	-14.25	QP	
8	*	0.4200	37.15	0.05	37.20	47.45	-10.25	AVG	
9		5.3835	26.01	0.27	26.28	60.00	-33.72	QP	
10		5.3835	19.59	0.27	19.86	50.00	-30.14	AVG	
11		9.7620	26.93	0.45	27.38	60.00	-32.62	QP	
12		9.7620	20.71	0.45	21.16	50.00	-28.84	AVG	

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

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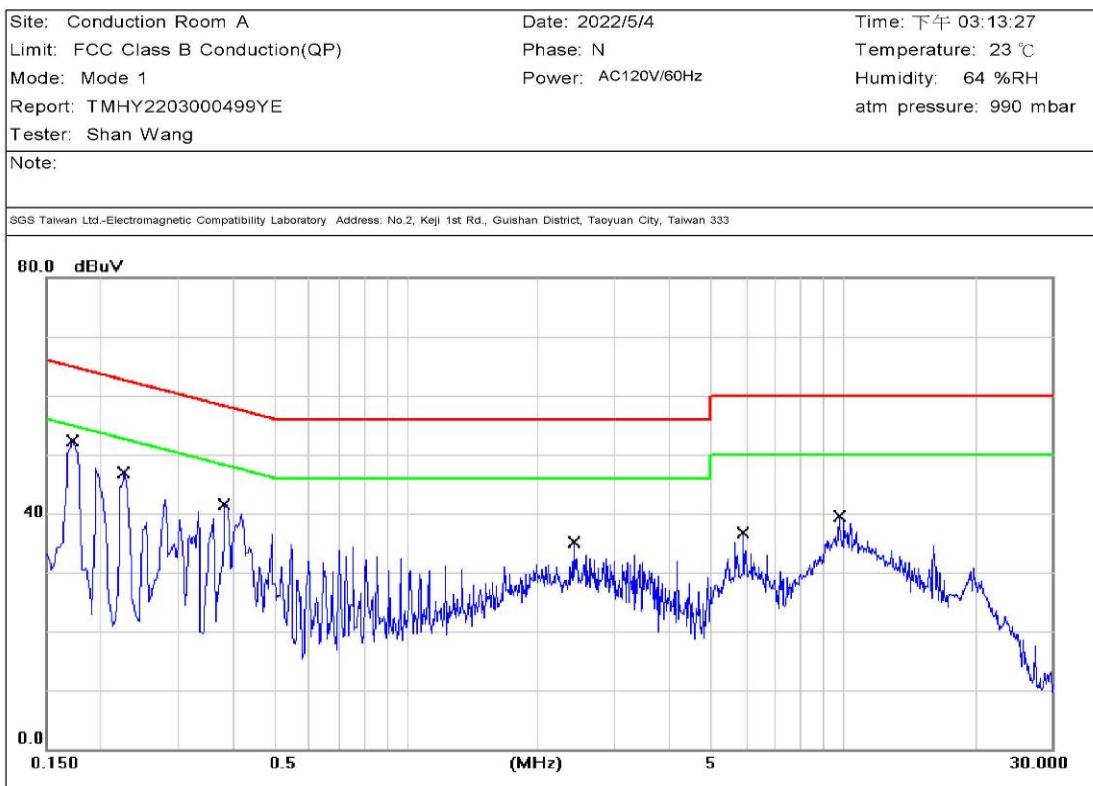
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Mode_1_N

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Comment
		(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)		
1	*	0.1725	51.75	0.05	51.80	64.84	-13.04	QP	
2		0.1725	35.85	0.05	35.90	54.84	-18.94	AVG	
3		0.2265	39.18	0.04	39.22	62.58	-23.36	QP	
4		0.2265	24.05	0.04	24.09	52.58	-28.49	AVG	
5		0.3840	35.55	0.05	35.60	58.19	-22.59	QP	
6		0.3840	27.75	0.05	27.80	48.19	-20.39	AVG	
7		2.4180	21.28	0.19	21.47	56.00	-34.53	QP	
8		2.4180	14.88	0.19	15.07	46.00	-30.93	AVG	
9		5.9100	23.62	0.26	23.88	60.00	-36.12	QP	
10		5.9100	17.87	0.26	18.13	50.00	-31.87	AVG	
11		9.8070	28.56	0.40	28.96	60.00	-31.04	QP	
12		9.8070	22.11	0.40	22.51	50.00	-27.49	AVG	

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

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

SGS Radiated_Below_1GHz HWAYA 966B EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100760	2021/6/3	2022/6/2
Broadband Antenna	TESEQ	CBL 6112D	35241	2021/6/3	2022/6/2
Biconical Antenna	Schwarzbeck	VHBB 9124	9124-560	2021/6/17	2022/6/16
Log-Periodic Antenna	Schwarzbeck	UHALP 9108 A	UHALP 9108-A 0990	2021/6/17	2022/6/16
Pre Amplifier	EMC Instruments	EMC330H	980215	2021/9/29	2022/9/28
Coaxial Cable	EMC Instruments	EMC8D-NM-NM	140919	2021/9/29	2022/9/28
Coaxial Cable	EMC Instruments	EMC8D-NM-NM	140921	2021/9/29	2022/9/28
Site NSA	SGS	966 Chamber B	SAC-B	2021/10/8	2022/10/7
Test Software	Farad	EZ-EMC	Ver. SGS-03A2-10	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 measurement is 5.94 dB.(30-1000MHz)

Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 6.32 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	101385	2021/12/7	2022/12/6
EMI Test Receiver	R&S	ESCI 7	100760	2021/6/3	2022/6/2
Horn Antenna	Schwarzbeck	BBHA9120D	BBHA9120D673	2021/12/3	2022/12/2
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	2021/12/16	2022/12/15
Pre Amplifier	R&S	SCU-18	10203	2022/3/26	2023/3/25
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	MY 5817/4	2022/3/26	2023/3/25
Pre Amplifier	EMC Instruments	EMC184045B	980135	2021/10/27	2022/10/26
Pre Amplifier	EMC Instruments	EMC184045SEE	980885	2022/3/31	2023/3/30
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140923	2021/9/29	2022/9/28
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140925	2021/9/29	2022/9/28
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2021/9/29	2022/9/28
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	520415/2	2021/6/5	2022/6/4
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2021/6/5	2022/6/4
Coaxial Cable	Huber+Suhner	EMC101G-KM-KM-1000	220202	2022/3/31	2023/3/30
Coaxial Cable	Huber+Suhner	EMC101G-KM-KM-8000	220203	2022/3/31	2023/3/30
Filter	MICRO-TRONICS	BRM50702-01	022	2022/1/28	2023/1/27
Filter	Woken	650-5262.5/X225-0/0	4	2022/1/28	2023/1/27
Site VSWR	SGS	966 Chamber B	SAC-B	2021/10/8	2022/10/7
Test Software	Farad	EZ-EMC	Ver. SGS-03A2-10	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 measurement is 4.27 dB.(1-6GHz)

Expanded uncertainty Ulab (k=2) of Radiated Emission measurement is 4.40 dB.(6-18GHz)

Expanded uncertainty Ulab (k=2) of Radiated Emission measurement is 4.29 dB.(18-26GHz)

Expanded uncertainty Ulab (k=2) of Radiated Emission measurement is 4.21 dB.(26-40GHz)

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

Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.48 dB.(6-18GHz)

Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is --- dB.(18-26GHz)

Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is --- dB.(26-40GHz)

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.: FSNO21VA**Mode_1_H**

No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Height (cm)	Degree (deg.)	Comment
1	*	42.6100	45.74	-13.14	32.60	40.00	-7.40	QP	100	259	
2		50.3700	46.46	-18.06	28.40	40.00	-11.60	QP			
3		125.0600	44.73	-13.29	31.44	43.50	-12.06	QP			
4		198.7800	44.21	-16.10	28.11	43.50	-15.39	QP			
5		250.1900	47.46	-12.18	35.28	46.00	-10.72	QP			
6		375.3200	40.42	-9.39	31.03	46.00	-14.97	QP			

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

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Mode_1_V

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height (cm)	Degree (deg.)	Comment
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)				
1		30.0000	38.22	-5.80	32.42	40.00	-7.58	QP			
2	!	46.4900	51.43	-15.83	35.60	40.00	-4.40	QP	100	115	
3		68.8000	50.52	-19.10	31.42	40.00	-8.58	QP			
4		125.0600	50.73	-13.29	37.44	43.50	-6.06	QP			
5	*	250.1900	53.80	-12.18	41.62	46.00	-4.38	QP			
6		712.8800	34.74	-3.70	31.04	46.00	-14.96	QP			

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

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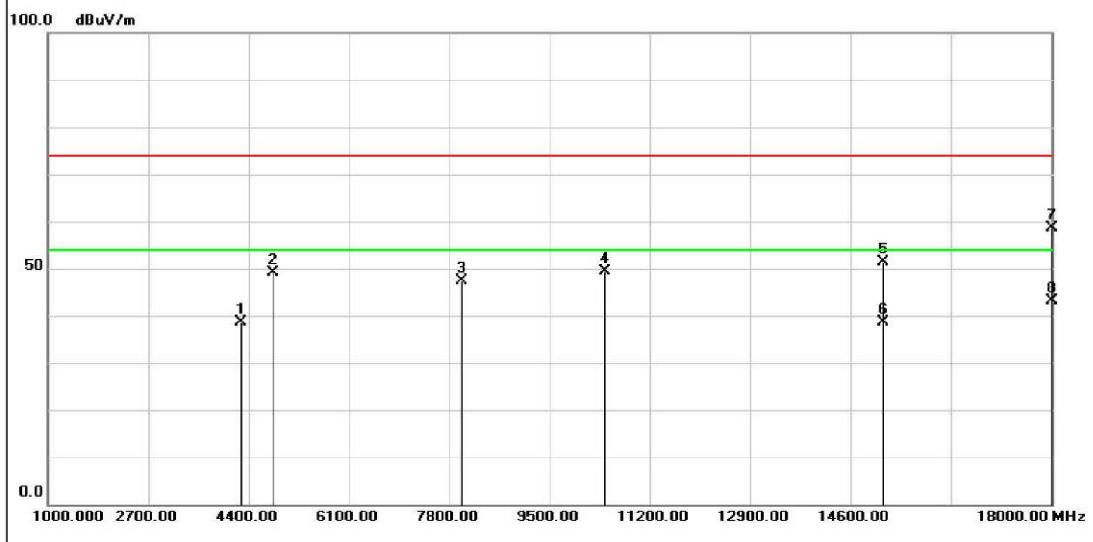
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Above 1GHz**Model No.: FSNO21VA****Mode_1_H**

Site: SGS 966 Chamber B	Date: 2022/5/6	Time: 下午 05:57:17
Limit: FCC Class B 1G-18G(Peak)	Polarization: Horizontal	Temperature: 22 °C
Mode: Mode 1	Power: AC 120V/60Hz	Humidity: 64 %RH
Report: TMHY2203000499YE	Distance: 3m	atm pressure: 990 mbar
Tester: Ken Chen		

Note:

SGS Taiwan Ltd. Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height (cm)	Degree (deg.)	Comment
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)				
1		4281.000	47.77	-9.15	38.62	74.00	-35.38	peak			
2		4825.000	57.38	-8.15	49.23	74.00	-24.77	peak			
3		8021.000	44.93	2.41	47.34	74.00	-26.66	peak			
4		10435.000	44.12	5.22	49.34	74.00	-24.66	peak			
5		15161.000	43.95	7.43	51.38	74.00	-22.62	peak			
6		15161.000	31.19	7.43	38.62	54.00	-15.38	AVG			
7		18000.000	40.71	17.82	58.53	74.00	-15.47	peak	100	52	
8	*	18000.000	25.34	17.82	43.16	54.00	-10.84	AVG	100	52	

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

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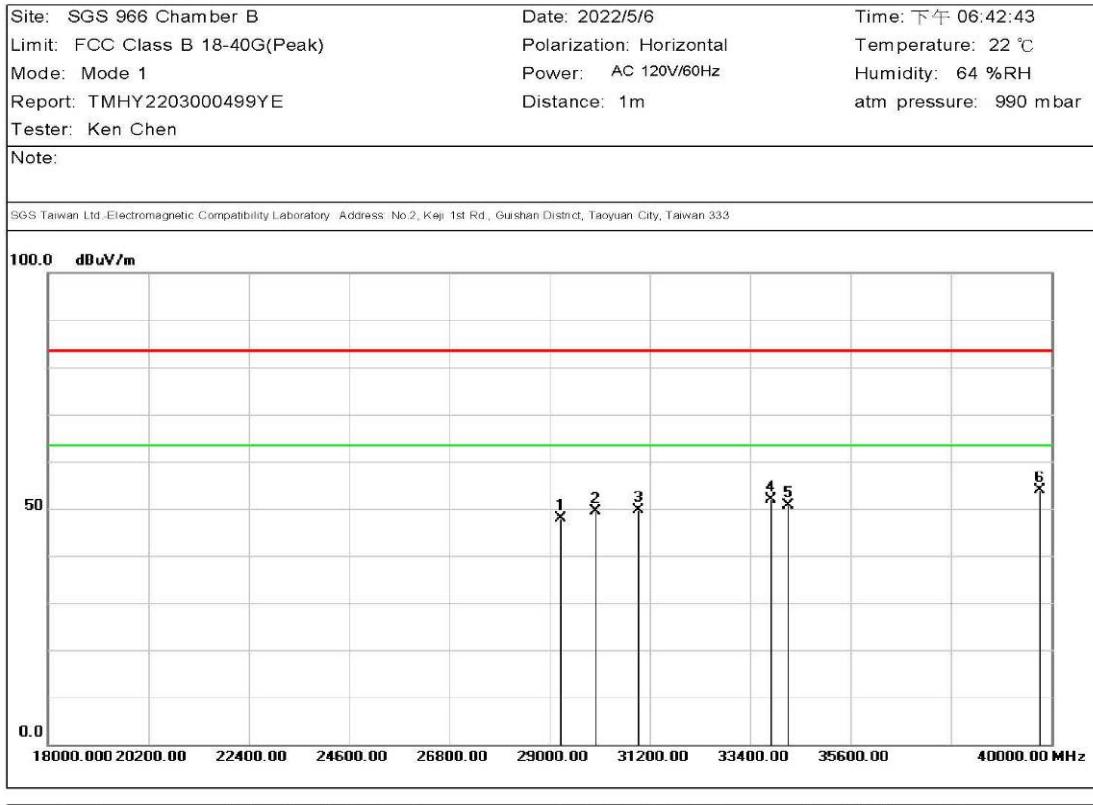
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No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height (cm)	Degree (deg.)	Comment
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)				
1		29242.000	41.32	6.51	47.83	83.50	-35.67	peak			
2		30012.000	42.08	7.26	49.34	83.50	-34.16	peak			
3		30958.000	41.96	7.55	49.51	83.50	-33.99	peak			
4		33840.000	43.37	8.51	51.88	83.50	-31.62	peak			
5		34236.000	42.08	8.66	50.74	83.50	-32.76	peak			
6	*	39736.000	39.17	14.64	53.81	83.50	-29.69	peak	100	185	

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

Page: 1

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Mode_1_V

Site: SGS 966 Chamber B	Date: 2022/5/6	Time: 下午 05:19:03
Limit: FCC Class B 1G-18G(Peak)	Polarization: Vertical	Temperature: 22 °C
Mode: Mode 1	Power: AC 120V/60Hz	Humidity: 64 %RH
Report: TMHY2203000499YE	Distance: 3m	atm pressure: 990 mbar
Tester: Ken Chen		
Note:		
SGS Taiwan Ltd. Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333		

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg.)	
1		4825.000	57.92	-8.15	49.77	74.00	-24.23	peak			
2		10690.000	44.68	5.12	49.80	74.00	-24.20	peak			
3		12679.000	45.91	4.58	50.49	74.00	-23.51	peak			
4		14532.000	43.06	9.08	52.14	74.00	-21.86	peak			
5		14532.000	30.33	9.08	39.41	54.00	-14.59	AVG			
6		16997.000	44.81	7.20	52.01	74.00	-21.99	peak			
7		16997.000	31.55	7.20	38.75	54.00	-15.25	AVG			
8		18000.000	38.63	17.82	56.45	74.00	-17.55	peak	100	271	
9	*	18000.000	25.06	17.82	42.88	54.00	-11.12	AVG	100	271	

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

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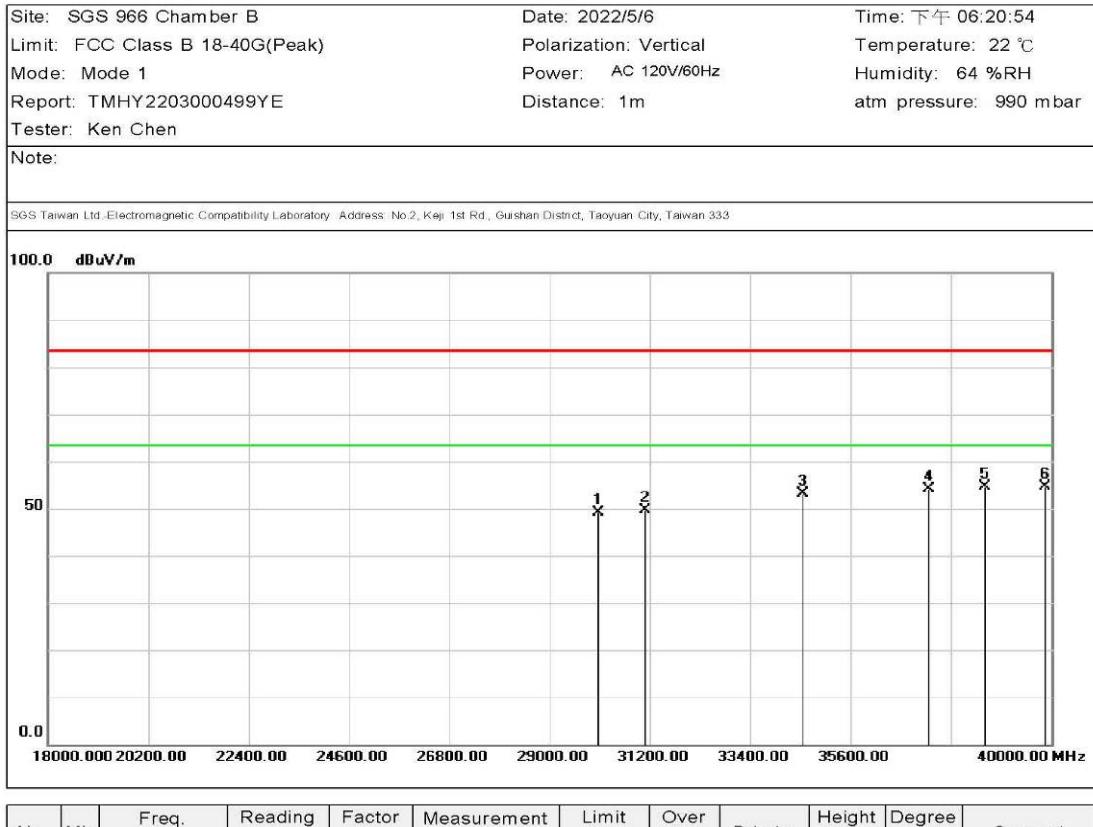
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		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)				
1		30056.000	42.11	7.14	49.25	83.50	-34.25	peak			
2		31090.000	42.12	7.45	49.57	83.50	-33.93	peak			
3		34566.000	44.62	8.56	53.18	83.50	-30.32	peak			
4		37316.000	42.32	11.69	54.01	83.50	-29.49	peak			
5		38548.000	41.27	13.33	54.60	83.50	-28.90	peak			
6	*	39868.000	40.48	14.22	54.70	83.50	-28.80	peak	100	20	

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