



FCC CERTIFICATION REPORT

Test Report No. : MH/2020/50099
Applicant : SHARP CORPORATION
Address : 2-13-1, HACHIHONMATSU-IIDA, HIGASHI-HIROSHIMA-SHI,
HIROSHIMA PREFECTURE 739-0192, JAPAN
Manufacturer : SHARP CORPORATION
Address : 1 Takumi-Cho, Sakai-Ku, Sakai-Shi, Osaka 590-8522, Japan

Equipment Under Test (EUT) :

Product Name : Tablet
Brand Name : SHARP

Standards : FCC Part 15 Subpart B, Class B
FCC Designation Numbers : 916890 / TW1087

Date of Sample Receipt : May 19, 2020
Date of Test : May 30 ~ Jun. 17, 2020
Date of Issue : Jun. 18, 2020

Test Result :	PASS
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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.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan Electronics & Communication Laboratory or testing done by SGS Taiwan Electronics & Communication Laboratory in connection with distribution or use of the product described in this report must be approved by SGS Taiwan Electronics & Communication Laboratory in writing.

Approved By

Eddy Cheng

Date

Jun. 18, 2020

Eddy Cheng (Asst. Supervisor)



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Revision History

Revision	Description	Issue Date	Remark
00	Original.	Jun. 18, 2020	MH/2020/50099

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1. General Information

1.1 Applicant & Manufacturer Information

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Manufacturer : SHARP CORPORATION
Address of Manufacturer : 1 Takumi-Cho, Sakai-Ku, Sakai-Shi, Osaka 590-8522, Japan

1.2 General Description of EUT

Product Name : Tablet
Brand Name : SHARP

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1.3 Details of EUT

Power Supply	: AC 100~240V, 50~60Hz		
Worst case	: CE worst case	: Config 2	
	Below RE worst case	: Config 2	
	Above RE worst case	: Config 2	
Highest internal frequency	: 5GHz		
Adapter	: Model No.: DSA-10PFL-05 FUS 050200 a		
	Supplier : DVE		
	I/P : AC 100-240V, 50/60Hz, 0.3A		
	O/P : DC 5V, 2A		
Battery	: 3.85V, 6500mAh, 25.02Wh		
USB Cable	: Model No.: JCT024-F014		
	Supplier : JCTC		

	Config 1	Config 2	Config 3	Config 4
Applicable standard	FCC Part15B			
Accessories	EUT + AC Adaptor +USB Cable +PHF	EUT +USB Cable +PHF	EUT + AC Adaptor +USB Cable +PHF	EUT + AC Adaptor +USB Cable +PHF
Main function	Speech & Bit Error Ratio	Data Link	Camera	RX Receive
Additional function	BT+WLAN2.4G/5G+GNSS			
Description				
radiated emission	WCDMA B5 LTE B5 / Idle	Data R/W	MP3/ ;REC mode (Front/Back) ;play REC	WCDMA B5 LTE B5 / Idle
conducted emission	WCDMA B5 LTE B5 / Idle	Data R/W	MP3/ ;REC mode (Front/Back) ;play REC	WCDMA B5 LTE B5 / Idle

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1.4 Operation Procedure

Config 1

1. Install the SIM Card & Micro SD Card & Earphone in the EUT, connect to the designated Adapter with USB Cable and turn it on.
2. Turn on BT function and Link BT Speaker.
3. Turn on Wifi function and Link to WiFi-AP, NB ping EUT IP Address.
4. Set up a GPS simulator and execute GPS Test.app.
5. Set Link/Idle according to config from.
6. Start testing.

Config 2

1. Install the SIM Card & Micro SD Card & Earphone in the EUT, connect to the NB with USB Cable and turn it on.
2. Turn on BT function and Link BT Speaker.
3. Turn on Wifi function and Link to WiFi-AP, NB ping EUT IP Address.
4. Set up a GPS simulator and execute GPS Test.app.
5. NB executes Data R/W with EUT according to Config from.
6. Start testing.

Config 3

1. Install the SIM Card & Micro SD Card & Earphone in the EUT, connect to the designated Adapter with USB Cable and turn it on.
2. Turn on BT function and Link BT Speaker.
3. Turn on Wifi function and Link to WiFi-AP, NB ping EUT IP Address.
4. Set up a GPS simulator and execute GPS Test.app.
5. Run Camera(Front/Back) Record / Play REC / MP3 function according to Config from.
6. Start testing.

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Config 4:

1. Install the SIM Card & Micro SD Card & Earphone in the EUT, connect to the NB with USB Cable and turn it on.
2. Turn on BT function and Link BT Speaker.
3. Turn on Wifi function and Link to WiFi-AP, NB ping EUT IP Address.
4. Set up a GPS simulator and execute GPS Test.app.
5. Set up the base station, set Link/Idle according to OG6_test Config.xlsx.
6. Start testing.

1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
SIM Card	R&S	CMW-Z05	8952530076180138474
Micro SD	Transcend	Micro SDHC (Class4)	N/A
Earphone (HRE, CE)	htc	N/A	N/A
Earphone (RE)	Apple	N/A	N/A
BT Speaker	Creative	MF8090	YFMF8090245R00855Y
Radio Communication Analyzer	R&S	CMU200	102189
Radio Communication Analyzer	R&S	CMW500	1201.002K50-152303-Zr
AP	BUFFALO	WZR-HP-G300NH2	44066221202559[[G]]
GPS Signal Generator	Spectracom	GSG53 GNSS4	200218
Notebook	LENOVO	TP00109A	PF-14BBG4 19/08
Mouse	Logitech	M-U0026	1738HS05FGU8

Support Equipment Used in Tested Cable

Cable Type	Core	Length	Shielding/Non-shielding
Earphone cable	N/A	1.8m	Non-shielding
USB Cable	N/A	1.5m	Shielding

1.6 Modification List

No modification was made by SGS Taiwan Electronics & Communication Laboratory.

1.7 Accessories Cable List

Cable Type	Core	Length	Shielding/Non-shielding
USB Cable	N/A	1m	Shielding

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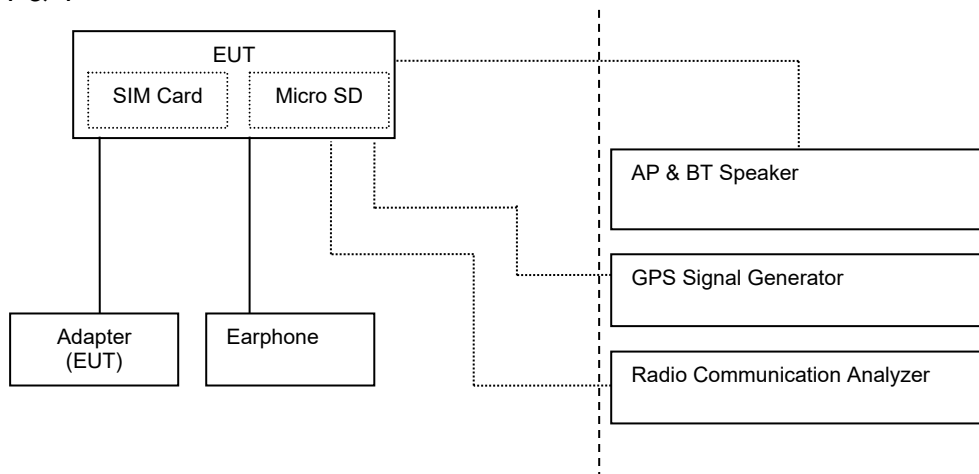
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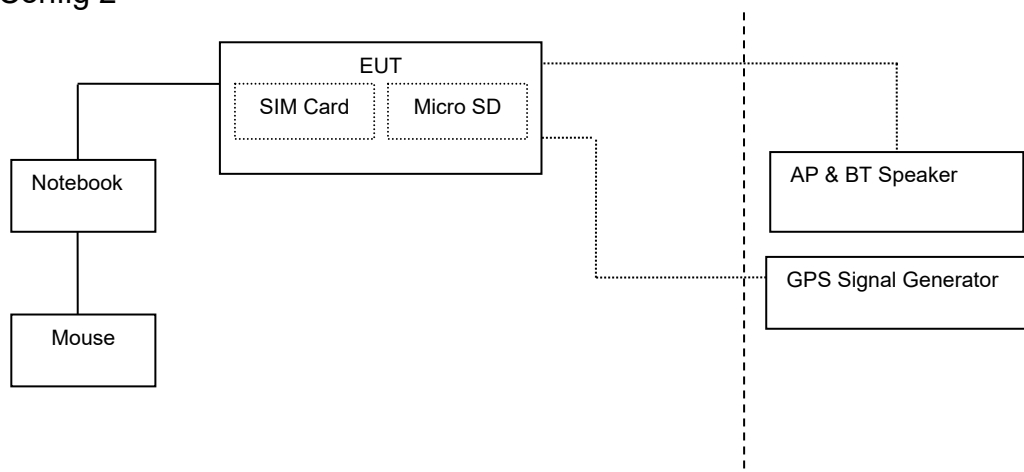


1.8 Test Set-Up Configuration

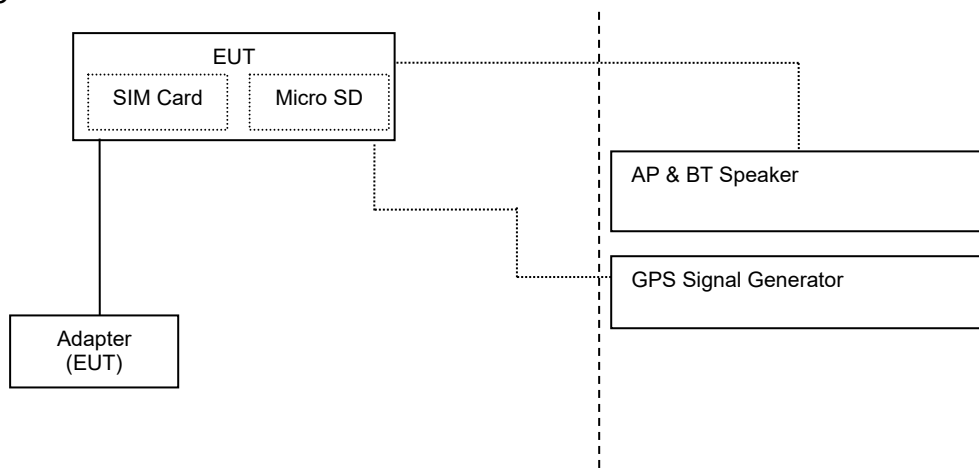
Config 1 & 4



Config 2



Config3



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1.9 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 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 frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.10 Standards Applicable for Testing

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

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

1.11 Decision Rules of Results

Reported measurement data comply with ANSI C63.4:2014

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

1.12 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Pol.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B Class B	Conducted Emission	PASS	Line	0.1500	-19.16 (QP)
			Neutral	0.5060	-9.54 (AVG)
	Radiated Emission	PASS	Hor.	960.0060	-3.08 (QP)

1.13 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

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

FCC Part 15 Subpart B:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or Upper frequency of measurement
used in the device or on which the range (MHz)
device operates or tunes (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

2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

FCC Part 15 Subpart B/CISPR 22:

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

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 10 m)		Class B (dBuV/m) (at 3 m)	
	Peak	Average	Peak	Average
Above 1000	69.5	49.5	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.

NOTE 2 Additional provisions may be required for cases where interference occurs.

FREQUENCY (GHz)	Class A (dBuV/m) (at 3 m)		Class B (dBuV/m) (at 3 m)	
	Average	Peak	Average	Peak
1~3	56	76	50	70
3~6	60	80	54	74

NOTE The lower limit applies at the transition frequency.

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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 3	101311	2019/7/2	2020/7/1
Coaxial Cables	EMC Instruments Corp	EMCRG58-BM-BM-3000	160812	2019/8/12	2020/8/11
Pulse Limiter	Narda S.T.S.	PMM PL01	1110X30602	2019/8/12	2020/8/11
LISN	Schwarzbeck	NSLK 8127	8127-648	2019/7/12	2020/7/11
LISN	Schwarzbeck	NSLK 8128	NSLK8128-300	2019/9/16	2020/9/15
Communication Tester	R&S	CMU 200	119988	2020/2/22	2021/2/21
Communication Tester	R&S	CMW 500	152303	2020/2/24	2021/2/23
Communication Tester	Anritsu	MT8820C	6201465315	N.C.R.	N.C.R.
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2-3	N.C.R.	N.C.R.
SGS Taiwan LTD. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan (R.O.C.) Measurement Uncertainty of Conducted Emission Expanded uncertainty U _{lab} (K=2) of conducted emission is 2.25 dB Theory values uncertainty U _{cispr} 16-4-2 :2011+A1 2014 (K=2) of AC mains conducted Emission is 3.44dB					

2.4.2 Operating Environment

Temperature : 23 degree C

Humidity : 62 %RH

Atmospheric Pressure : 990 hpa

2.4.3 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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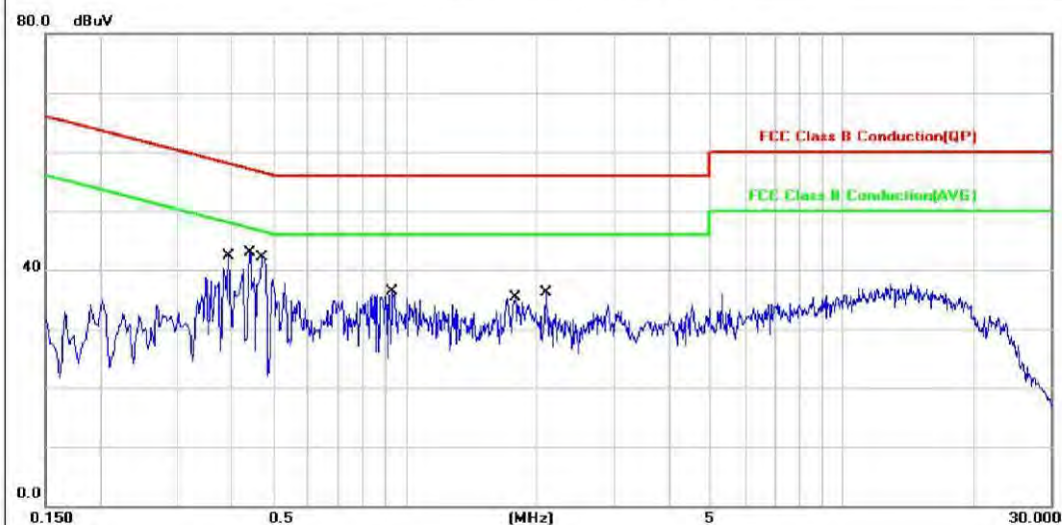


2.4.4 Measurement Data:

Config_1_L

Site: : Conduction Room A	Date: 2020/6/2	Time: 上午 01:05:38
Limit: FCC Class B Conduction(QP)	Phase: L1	Temperature: 23 °C
Mode: Config 1	Power: AC120V/60Hz	Humidity: 62 %RH
Report: MH-2020-50099		Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: LTE B5		

SGS Taiwan Ltd.-Electronics & Communication 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		0.3940	40.12	0.13	40.25	57.98	-17.73	QP	
2		0.3940	25.13	0.13	25.26	47.98	-22.72	AVG	
3		0.4420	38.80	0.13	38.93	57.02	-18.09	QP	
4		0.4420	24.32	0.13	24.45	47.02	-22.57	AVG	
5	*	0.4700	39.71	0.13	39.84	56.51	-16.67	QP	
6		0.4700	29.66	0.13	29.79	46.51	-16.72	AVG	
7		0.9380	34.29	0.23	34.52	56.00	-21.48	QP	
8		0.9380	23.92	0.23	24.15	46.00	-21.85	AVG	
9		1.7860	32.73	0.26	32.99	56.00	-23.01	QP	
10		1.7860	20.41	0.26	20.67	46.00	-25.33	AVG	
11		2.1020	29.57	0.26	29.83	56.00	-26.17	QP	
12		2.1020	21.18	0.26	21.44	46.00	-24.56	AVG	

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

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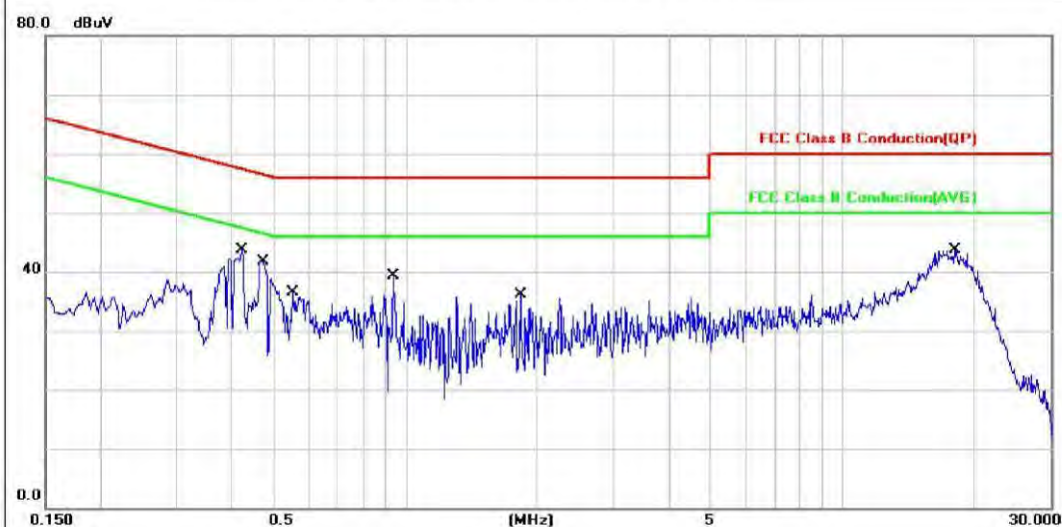
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Config_1_N

Site: : Conduction Room A	Date: 2020/6/2	Time: 上午 01:03:32
Limit: FCC Class B Conduction(QP)	Phase: N	Temperature: 23 °C
Mode: Config 1	Power: AC120V/60Hz	Humidity: 62 %RH
Report: MH-2020-50099		Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: LTE B5		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.4220	40.43	0.11	40.54	57.41	-16.87	QP	
2		0.4220	28.12	0.11	28.23	47.41	-19.18	AVG	
3	*	0.4740	40.20	0.11	40.31	56.44	-16.13	QP	
4		0.4740	28.20	0.11	28.31	46.44	-18.13	AVG	
5		0.5540	32.73	0.13	32.86	56.00	-23.14	QP	
6		0.5540	19.70	0.13	19.83	46.00	-26.17	AVG	
7		0.9420	32.39	0.22	32.61	56.00	-23.39	QP	
8		0.9420	19.15	0.22	19.37	46.00	-26.63	AVG	
9		1.8300	26.36	0.24	26.60	56.00	-29.40	QP	
10		1.8300	13.55	0.24	13.79	46.00	-32.21	AVG	
11		18.1180	36.02	0.53	36.55	60.00	-23.45	QP	
12		18.1180	23.39	0.53	23.92	50.00	-26.08	AVG	

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

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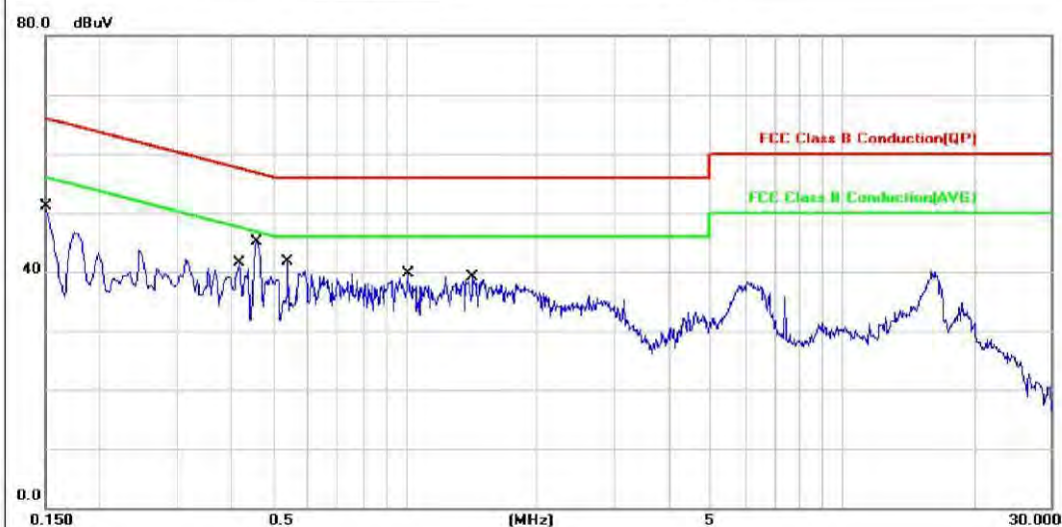
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Config_2_L

Site: : Conduction Room A	Date: 2020/6/1	Time: 下午 09:24:27
Limit: FCC Class B Conduction(QP)	Phase: L1	Temperature: 23 °C
Mode: Config 2	Power: From System	Humidity: 62 %RH
Report: MH-2020-50099		Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: Data Write (Internal Storage)		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	*	0.1500	46.81	0.03	46.84	66.00	-19.16	QP	
2		0.1500	35.50	0.03	35.53	56.00	-20.47	AVG	
3		0.4180	34.70	0.13	34.83	57.49	-22.66	QP	
4		0.4180	27.36	0.13	27.49	47.49	-20.00	AVG	
5		0.4580	31.88	0.13	32.01	56.73	-24.72	QP	
6		0.4580	22.78	0.13	22.91	46.73	-23.82	AVG	
7		0.5380	32.67	0.14	32.81	56.00	-23.19	QP	
8		0.5380	25.37	0.14	25.51	46.00	-20.49	AVG	
9		1.0140	31.39	0.24	31.63	56.00	-24.37	QP	
10		1.0140	24.61	0.24	24.85	46.00	-21.15	AVG	
11		1.4300	31.10	0.25	31.35	56.00	-24.65	QP	
12		1.4300	24.20	0.25	24.45	46.00	-21.55	AVG	

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

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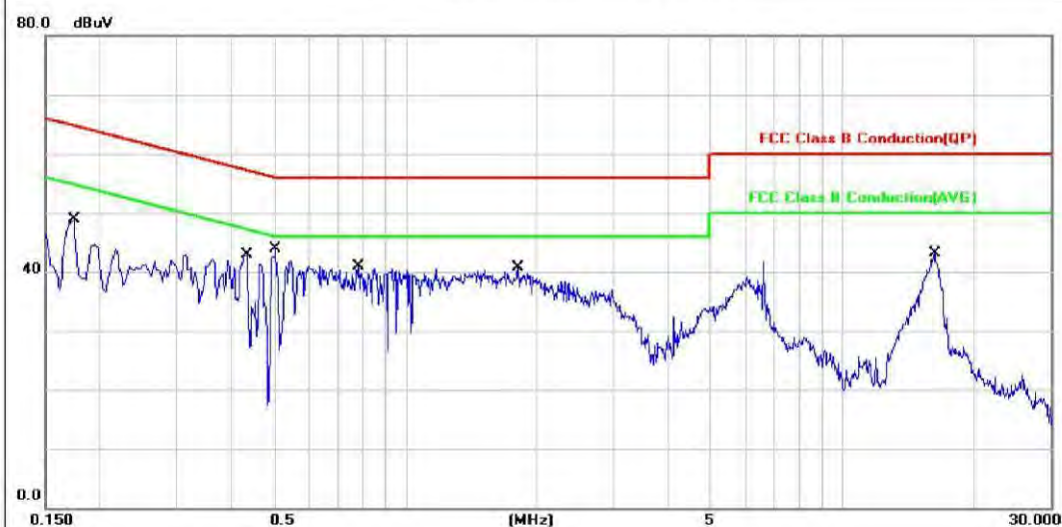
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Config_2_N

Site: : Conduction Room A	Date: 2020/6/1	Time: 下午 09:21:14
Limit: FCC Class B Conduction(QP)	Phase: N	Temperature: 23 °C
Mode: Config 2	Power: From System	Humidity: 62 %RH
Report: MH-2020-50099		Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: Data Write (Internal Storage)		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.1740	44.47	0.08	44.55	64.77	-20.22	QP	
2		0.1740	35.31	0.08	35.39	54.77	-19.38	AVG	
3		0.4340	41.81	0.13	41.94	57.18	-15.24	QP	
4		0.4340	35.58	0.13	35.71	47.18	-11.47	AVG	
5		0.5060	41.94	0.13	42.07	56.00	-13.93	QP	
6	*	0.5060	36.33	0.13	36.46	46.00	-9.54	AVG	
7		0.7820	37.95	0.20	38.15	56.00	-17.85	QP	
8		0.7820	32.60	0.20	32.80	46.00	-13.20	AVG	
9		1.8100	37.30	0.26	37.56	56.00	-18.44	QP	
10		1.8100	30.23	0.26	30.49	46.00	-15.51	AVG	
11		16.2660	37.37	0.75	38.12	60.00	-21.88	QP	
12		16.2660	26.74	0.75	27.49	50.00	-22.51	AVG	

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

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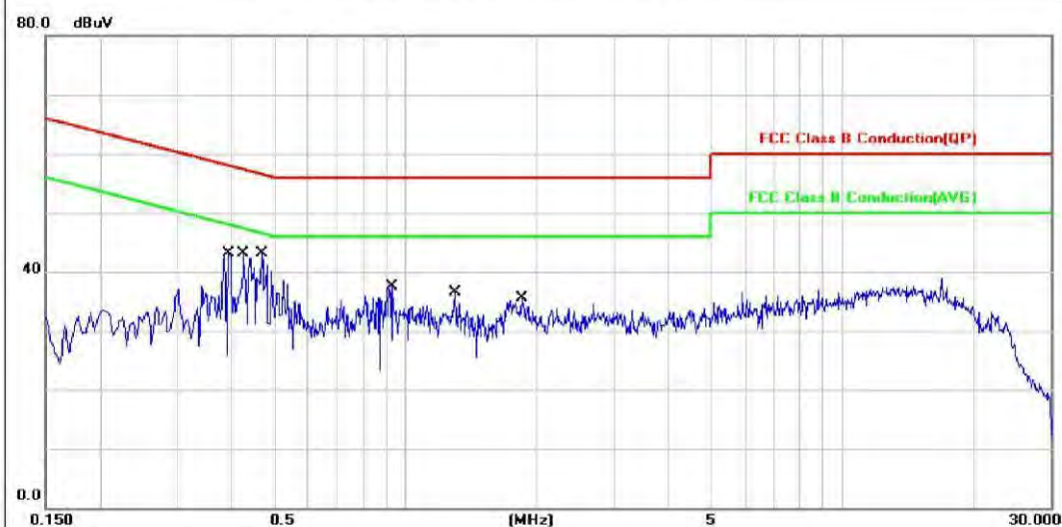
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Config_3_L

Site: : Conduction Room A	Date: 2020/6/2	Time: 上午 01:17:11
Limit: FCC Class B Conduction(QP)	Phase: L1	Temperature: 23 °C
Mode: Config 3	Power: AC120V/60Hz	Humidity: 62 %RH
Report: MH-2020-50099		Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: MP3		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.3940	40.90	0.13	41.03	57.98	-16.95	QP	
2		0.3940	25.21	0.13	25.34	47.98	-22.64	AVG	
3		0.4260	40.46	0.13	40.59	57.33	-16.74	QP	
4		0.4260	27.86	0.13	27.99	47.33	-19.34	AVG	
5	*	0.4700	41.03	0.13	41.16	56.51	-15.35	QP	
6		0.4700	30.39	0.13	30.52	46.51	-15.99	AVG	
7		0.9340	34.88	0.23	35.11	56.00	-20.89	QP	
8		0.9340	24.40	0.23	24.63	46.00	-21.37	AVG	
9		1.3020	31.75	0.25	32.00	56.00	-24.00	QP	
10		1.3020	21.05	0.25	21.30	46.00	-24.70	AVG	
11		1.8500	32.12	0.26	32.38	56.00	-23.62	QP	
12		1.8500	21.49	0.26	21.75	46.00	-24.25	AVG	

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

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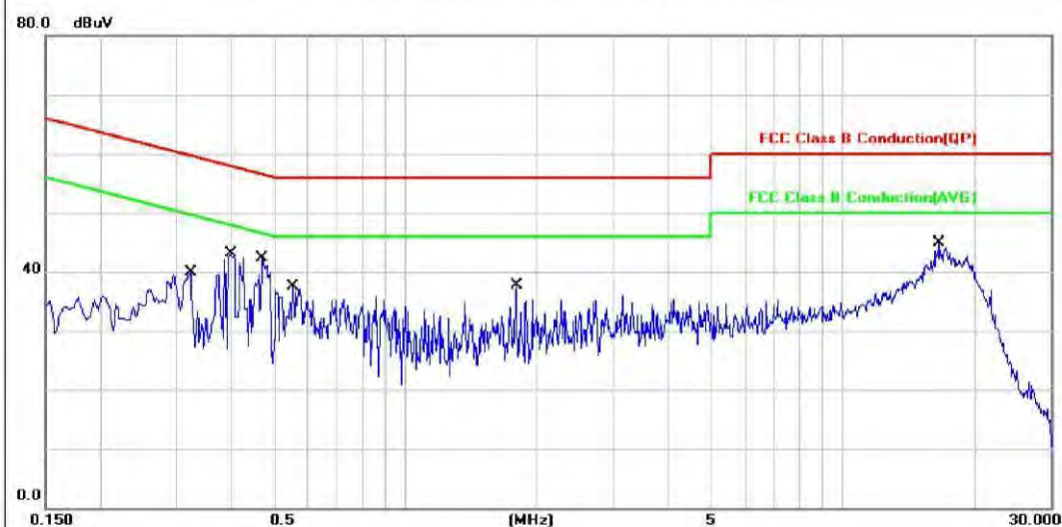
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Config_3_N

Site: : Conduction Room A	Date: 2020/6/2	Time: 上午 01:19:26
Limit: FCC Class B Conduction(QP)	Phase: N	Temperature: 23 °C
Mode: Config 3	Power: AC120V/60Hz	Humidity: 62 %RH
Report: MH-2020-50099		Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: MP3		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.3220	36.27	0.11	36.38	59.66	-23.28	QP	
2		0.3220	22.25	0.11	22.36	49.66	-27.30	AVG	
3		0.3980	39.33	0.11	39.44	57.90	-18.46	QP	
4		0.3980	21.75	0.11	21.86	47.90	-26.04	AVG	
5	*	0.4700	40.83	0.11	40.94	56.51	-15.57	QP	
6		0.4700	30.02	0.11	30.13	46.51	-16.38	AVG	
7		0.5540	33.09	0.13	33.22	56.00	-22.78	QP	
8		0.5540	20.39	0.13	20.52	46.00	-25.48	AVG	
9		1.7940	30.01	0.24	30.25	56.00	-25.75	QP	
10		1.7940	15.83	0.24	16.07	46.00	-29.93	AVG	
11		16.7180	37.68	0.51	38.19	60.00	-21.81	QP	
12		16.7180	23.27	0.51	23.78	50.00	-26.22	AVG	

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

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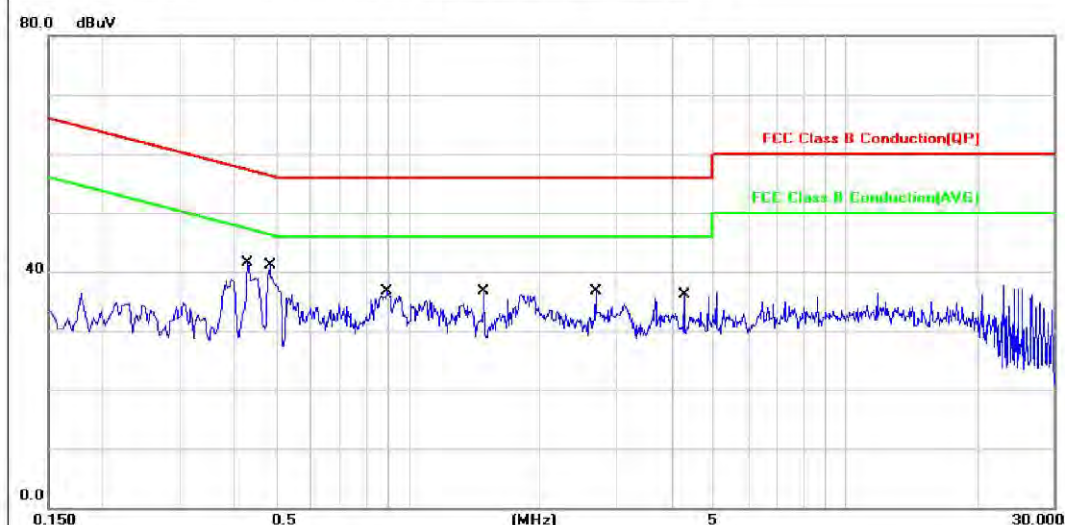
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Config_4_L

Site: : Conduction Room A	Date: 2020/6/17	Time: 下午 06:13:42
Limit: FCC Class B Conduction(QP)	Phase: L1	Temperature: 22 °C
Mode: Config 4	Power: AC120V/60Hz	Humidity: 61 %RH
Report: MH-2020-50099		Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: LTE B5		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.4300	39.99	0.13	40.12	57.25	-17.13	QP	
2		0.4300	27.82	0.13	27.95	47.25	-19.30	AVG	
3	*	0.4820	39.32	0.13	39.45	56.30	-16.85	QP	
4		0.4820	28.99	0.13	29.12	46.30	-17.18	AVG	
5		0.8980	34.65	0.22	34.87	56.00	-21.13	QP	
6		0.8980	22.11	0.22	22.33	46.00	-23.67	AVG	
7		1.4900	30.06	0.25	30.31	56.00	-25.69	QP	
8		1.4900	20.02	0.25	20.27	46.00	-25.73	AVG	
9		2.6820	30.91	0.28	31.19	56.00	-24.81	QP	
10		2.6820	19.19	0.28	19.47	46.00	-26.53	AVG	
11		4.2700	28.78	0.32	29.10	56.00	-26.90	QP	
12		4.2700	19.38	0.32	19.70	46.00	-26.30	AVG	

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

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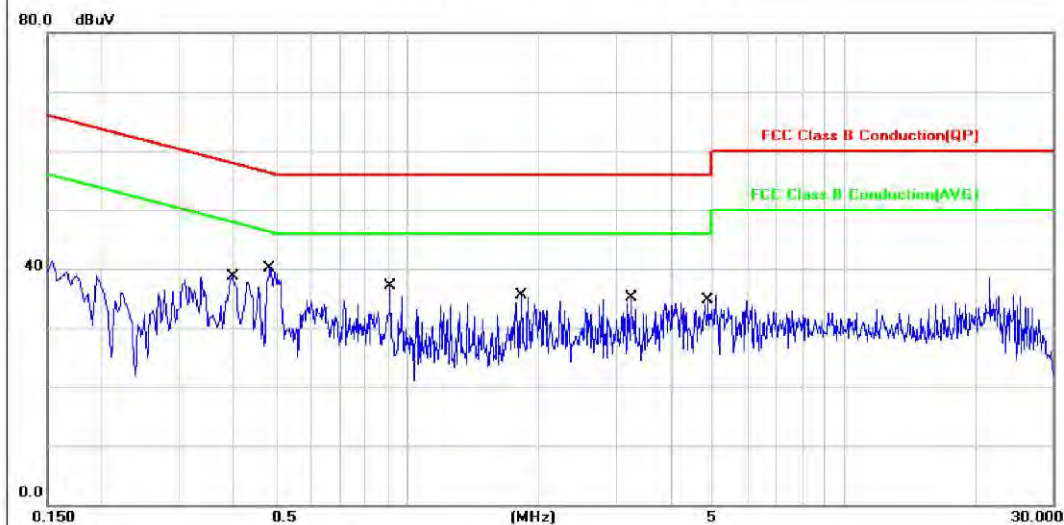
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Config_4_N

Site: : Conduction Room A	Date: 2020/6/17	Time: 下午 06:05:32
Limit: FCC Class B Conduction(QP)	Phase: N	Temperature: 22 °C
Mode: Config 4	Power: AC120V/60Hz	Humidity: 61 %RH
Report: MH-2020-50099		Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: LTE B5		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.3980	36.83	0.11	36.94	57.90	-20.96	QP	
2		0.3980	26.72	0.11	26.83	47.90	-21.07	AVG	
3	*	0.4860	36.99	0.11	37.10	56.24	-19.14	QP	
4		0.4860	22.91	0.11	23.02	46.24	-23.22	AVG	
5		0.9140	31.17	0.21	31.38	56.00	-24.62	QP	
6		0.9140	16.57	0.21	16.78	46.00	-29.22	AVG	
7		1.8220	27.21	0.24	27.45	56.00	-28.55	QP	
8		1.8220	15.61	0.24	15.85	46.00	-30.15	AVG	
9		3.2460	24.88	0.26	25.14	56.00	-30.86	QP	
10		3.2460	14.72	0.26	14.98	46.00	-31.02	AVG	
11		4.8980	23.00	0.29	23.29	56.00	-32.71	QP	
12		4.8980	15.11	0.29	15.40	46.00	-30.60	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 10m EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100950	2019/12/11	2020/12/10
EMI Test Receiver	R&S	ESCI 3	101343	2020/2/17	2021/2/16
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	2019/9/9	2020/9/8
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	2019/9/9	2020/9/8
Pre Amplifier	EMC Instruments Corp.	EMC330	980178	2020/3/31	2021/3/30
Pre Amplifier	EMC Instruments Corp.	EMC330	980179	2020/3/31	2021/3/30
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150917	2019/9/18	2020/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150919	2019/9/18	2020/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150820	2019/9/18	2020/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150918	2019/9/18	2020/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150821	2019/9/18	2020/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150822	2019/9/18	2020/9/17
Universal Digital Radio Communication Tester	R&S	CMU 200	119988	2020/2/22	2021/2/21
Wideband Radio Communication Tester	R&S	CMW 500	152303	2020/2/24	2021/2/23
Radio Communication Analyzer	Anritsu	MT8820C	6201465315	N.C.R.	N.C.R.
Controller	MF	MF7802	N/A	N.C.R.	N.C.R.
Controller	MF	MF7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site NSA	SGS	10M Chamber	10M SAC	2019/12/31	2020/12/30
Test S/W	Farad	EZ-EMC	Ver. SGS 10m-03A2-3	N.C.R.	N.C.R.

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Measurement Uncertainty of Radiated Emission

Expanded uncertainty U_{lab} (K=2) of radiated emission is 4.09 dB. (30MHz ~ 1000MHz)

Theory values uncertainty U_{cispr} 16-4-2:2011+A1:2014 (K=2) of radiated emission 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	2020/5/28	2021/5/27
EMI Test Receiver	R&S	ESR 7	101507	2019/9/4	2020/9/3
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D673	2019/11/4	2020/11/3
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	2019/12/25	2020/12/24
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
Pre Amplifier	EMC Instruments	EMC184045B	980135	2019/10/27	2020/10/26
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140923	2019/9/30	2020/9/29
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140925	2019/9/30	2020/9/29
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2019/9/30	2020/9/29
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2651/2	2019/6/5	2021/6/4
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2019/6/5	2021/6/4
Universal Digital Radio Communication Tester	R&S	CMU 200	119988	2020/2/22	2021/2/21
Wideband Radio Communication Tester	R&S	CMW 500	152303	2020/2/24	2021/2/23
Radio Communication Analyzer	Anritsu	MT8820C	6201465315	N.C.R.	N.C.R.
Controller	MF	MF7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site VSWR	SGS	966 Chamber B	SAC-B	2019/10/8	2020/10/7
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2-3	N.C.R.	N.C.R.

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No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan (R.O.C.)

Measurement Uncertainty of Radiated Emission

Expanded uncertainty U_{lab} (k=2) of radiated emission measurement is 5.06 dB. (1-6GHz)

Expanded uncertainty U_{lab} (k=2) of radiated emission measurement is 5.15 dB. (6-18GHz)

Expanded uncertainty U_{lab} (k=2) of radiated emission measurement is 5.19 dB. (18-26GHz)

Expanded uncertainty U_{lab} (k=2) of radiated emission measurement is 5.14 dB. (26-40GHz)

Theory values uncertainty U_{cispr} 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.18 dB.(1-6GHz)

Theory values uncertainty U_{cispr} 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.48 dB.(6-18GHz)

Theory values uncertainty U_{cispr} 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is ---- dB.(18-26GHz)

Theory values uncertainty U_{cispr} 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is ---- dB.(26-40GHz)

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2.5.2 Operating Environment

Temperature : 23 degree C

Humidity : 66 %RH

Atmospheric Pressure : 990 hpa

2.5.3 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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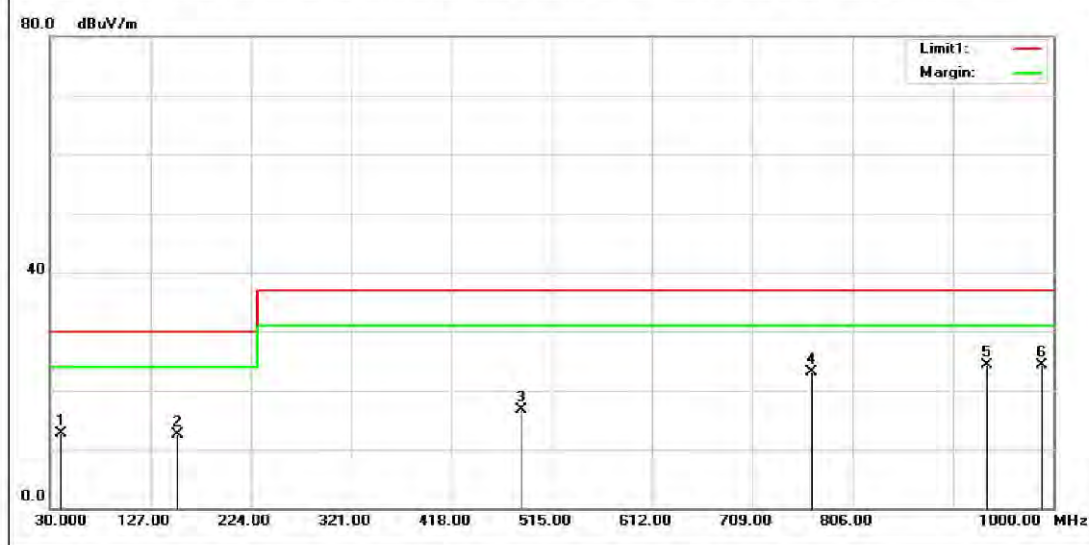
2.5.4 Measurement Data

Below 1GHz

Config_1_H

Site: SGS 10m Chamber	Date: 2020/6/4	Time: 下午 10:30:05
Limit: CISPR22 Class B 10m Radiation	Polarization: Horizontal	Temperature: 23 °C
Mode: Config 1	Power: AC120V/60Hz	Humidity: 66 %RH
Report: File :MH-2020-50099	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: LTE B5		

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No.	Mk	Freq. MHz	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1		40.6700	24.09	-11.36	12.73	30.00	-17.27	QP	
2		153.1900	23.76	-11.20	12.56	30.00	-17.44	QP	
3		485.9000	23.07	-6.32	16.75	37.00	-20.25	QP	
4		766.2300	22.83	0.23	23.06	37.00	-13.94	QP	
5	*	935.9800	23.13	1.22	24.35	37.00	-12.65	QP	
6		988.3600	22.61	1.67	24.28	37.00	-12.72	QP	

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

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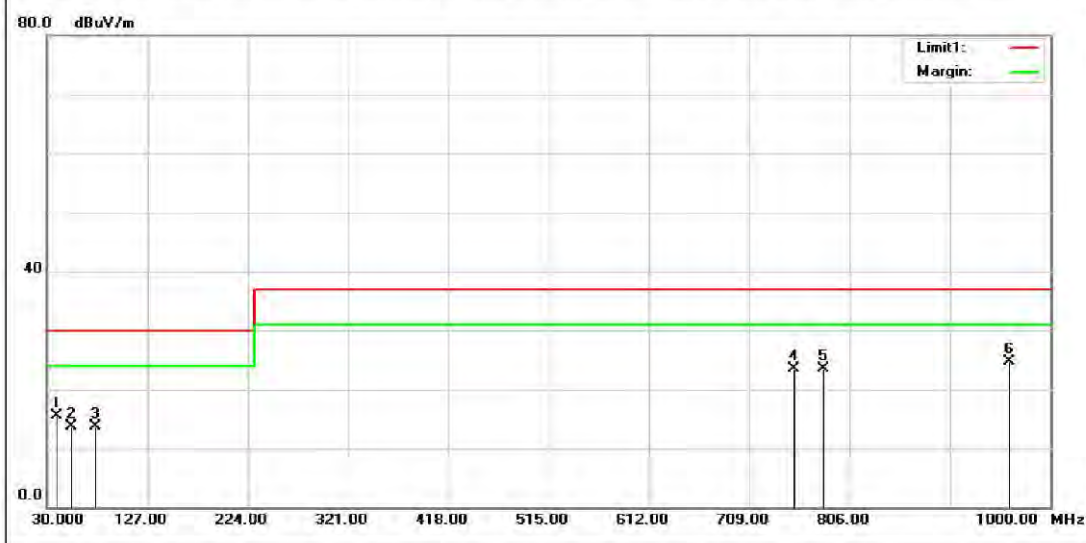
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Config_1_V

Site: SGS 10m Chamber	Date: 2020/6/4	Time: 下午 10:30:03
Limit: CISPR22 Class B 10m Radiation	Polarization: Vertical	Temperature: 23 °C
Mode: Config 1	Power: AC120V/60Hz	Humidity: 66 %RH
Report: File :MH-2020-50099	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: LTE B5		

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No.	Mk	Freq. MHz	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1		39.7000	26.71	-11.28	15.43	30.00	-14.57	QP	
2		53.2800	24.69	-11.06	13.63	30.00	-16.37	QP	
3		77.5300	28.75	-15.11	13.64	30.00	-16.36	QP	
4		752.6500	22.23	1.20	23.43	37.00	-13.57	QP	
5		780.7800	22.29	1.23	23.52	37.00	-13.48	QP	
6	*	960.2300	22.25	2.46	24.71	37.00	-12.29	QP	

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

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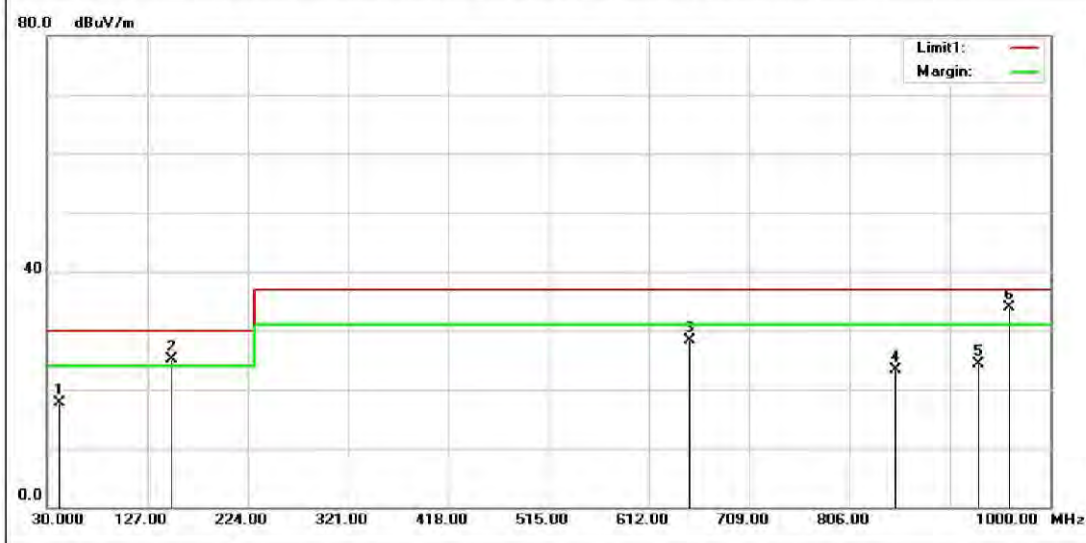
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Config_2_H

Site: SGS 10m Chamber	Date: 2020/6/4	Time: 上午 01:34:01
Limit: CISPR22 Class B 10m Radiation	Polarization: Horizontal	Temperature: 24 °C
Mode: Config 2	Power: From System	Humidity: 62 %RH
Report: File :MH-2020-50099	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: Data Write (SD Card)		

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No.	Mk	Freq. MHz	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		41.6400	28.88	-11.24	17.64	30.00	-12.36			QP	
2	I	150.0100	36.51	-11.40	25.11	30.00	-4.89			QP	
3		650.0400	30.83	-2.50	28.33	37.00	-8.67			QP	
4		850.6200	23.10	0.19	23.29	37.00	-13.71			QP	
5		931.1300	23.09	1.22	24.31	37.00	-12.69			QP	
6	*	960.0060	32.32	1.60	33.92	37.00	-3.08	136	272	QP	

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

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Config_2_V

Site: SGS 10m Chamber	Date: 2020/6/4	Time: 上午 01:34:00
Limit: CISPR22 Class B 10m Radiation	Polarization: Vertical	Temperature: 24 °C
Mode: Config 2	Power: From System	Humidity: 62 %RH
Report: File :MH-2020-50099	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: Data Write (SD Card)		

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



No.	Mk	Freq. MHz	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1	*	150.0100	36.52	-11.30	25.22	30.00	-4.78	110	74	QP	
2		479.9800	35.58	-5.28	30.30	37.00	-6.70			QP	
3	!	749.9900	30.28	1.20	31.48	37.00	-5.52			QP	
4		800.1800	22.25	1.20	23.45	37.00	-13.55			QP	
5	!	849.9600	29.40	1.80	31.20	37.00	-5.80			QP	
6		960.0100	26.78	2.46	29.24	37.00	-7.76			QP	

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

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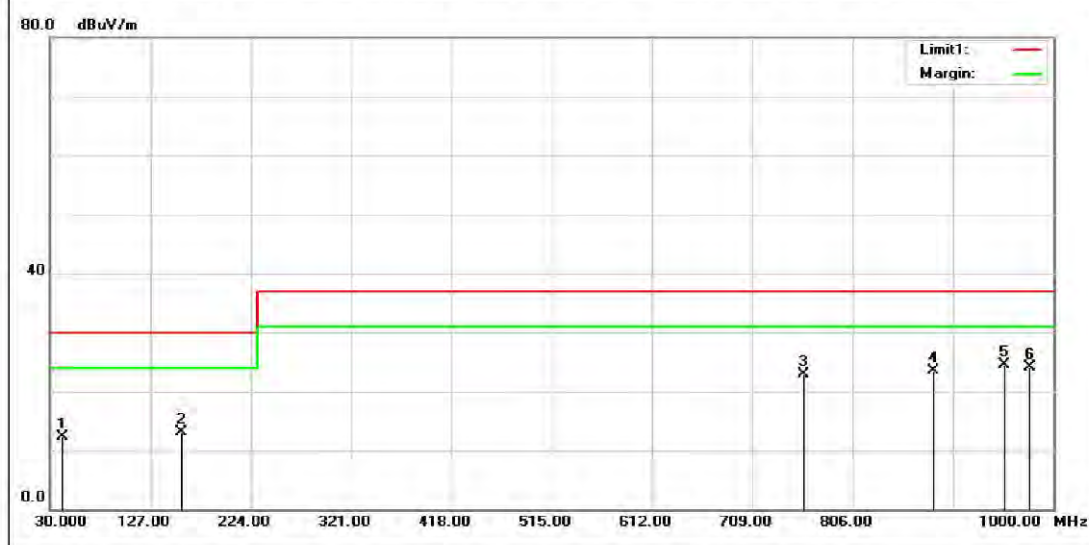
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Config_3_H

Site: SGS 10m Chamber	Date: 2020/6/4	Time: 下午 11:35:37
Limit: CISPR22 Class B 10m Radiation	Polarization: Horizontal	Temperature: 23 °C
Mode: Config 3	Power: AC120V/60Hz	Humidity: 66 %RH
Report: File :MH-2020-50099	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: REC mode (Back)		

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No.	Mk	Freq. MHz	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		42.6100	23.52	-11.14	12.38	30.00	-17.62			QP	
2		157.0700	23.95	-10.86	13.09	30.00	-16.91			QP	
3		758.4700	22.79	0.19	22.98	37.00	-14.02			QP	
4		884.5700	23.13	0.42	23.55	37.00	-13.45			QP	
5	*	952.4700	23.00	1.50	24.50	37.00	-12.50	136	325	QP	
6		976.7200	22.63	1.50	24.13	37.00	-12.87			QP	

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

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Config_3_V

Site: SGS 10m Chamber	Date: 2020/6/4	Time: 下午 11:35:36
Limit: CISPR22 Class B 10m Radiation	Polarization: Vertical	Temperature: 23 °C
Mode: Config 3	Power: AC120V/60Hz	Humidity: 66 %RH
Report: File :MH-2020-50099	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: REC mode (Back)		

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No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Height	Degree	Detector	Comment
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)		
1		39.7000	26.47	-11.28	15.19	30.00	-14.81			QP	
2		54.2500	24.85	-11.16	13.69	30.00	-16.31			QP	
3		79.4700	29.15	-15.58	13.57	30.00	-16.43			QP	
4		770.1100	22.20	1.16	23.36	37.00	-13.64			QP	
5		906.8800	22.20	1.79	23.99	37.00	-13.01			QP	
6	*	967.9900	22.19	2.42	24.61	37.00	-12.39	110	0	QP	

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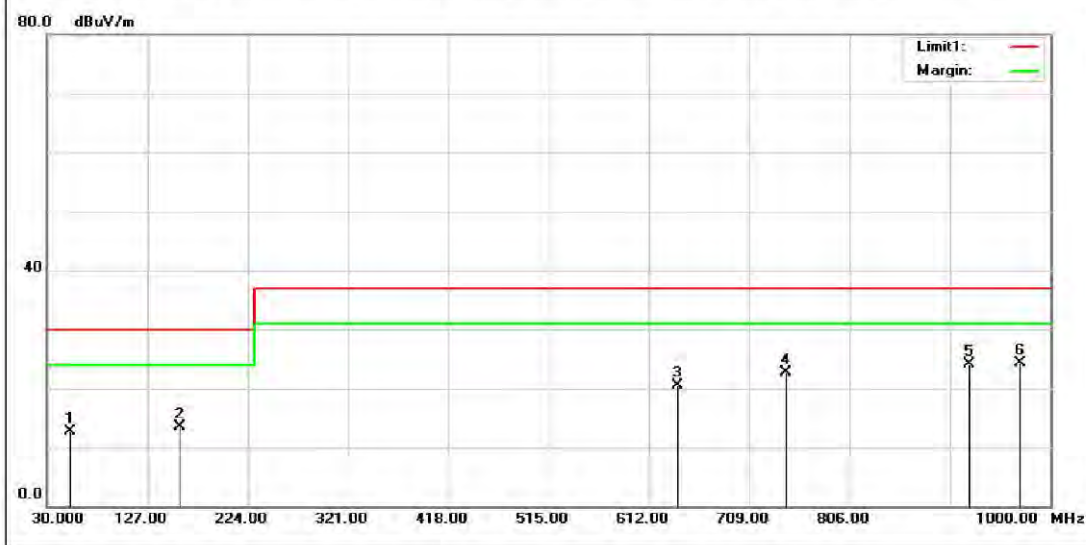
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Config_4_H

Site: SGS 10m Chamber	Date: 2020/6/16	Time: 下午 09:30:18
Limit: CISPR22 Class B 10m Radiation	Polarization: Horizontal	Temperature: 24 °C
Mode: Config 4	Power: AC120V/60Hz	Humidity: 63 %RH
Report: File :MH-2020-50099	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: LTE B5		

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No.	Mk	Freq. MHz	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		52.3100	23.99	-11.28	12.71	30.00	-17.29			QP	
2		159.0100	24.18	-10.65	13.53	30.00	-16.47			QP	
3		640.1300	23.09	-2.58	20.51	37.00	-16.49			QP	
4		743.9200	22.87	-0.09	22.78	37.00	-14.22			QP	
5		921.4300	23.15	1.02	24.17	37.00	-12.83			QP	
6	*	970.9000	22.78	1.58	24.36	37.00	-12.64	136	320	QP	

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

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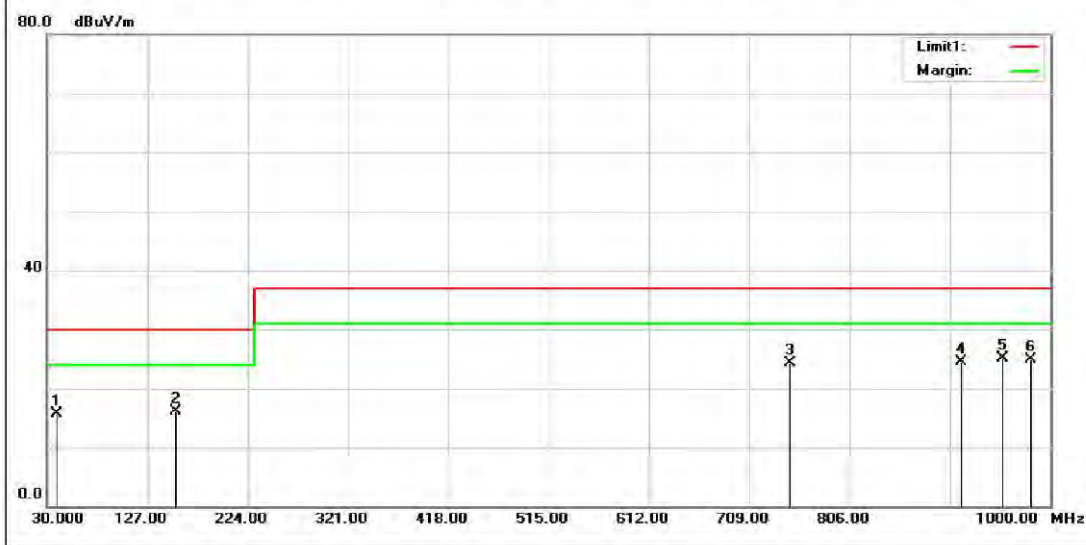
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Config_4_V

Site: SGS 10m Chamber	Date: 2020/6/16	Time: 下午 09:30:17
Limit: CISPR22 Class B 10m Radiation	Polarization: Vertical	Temperature: 24 °C
Mode: Config 4	Power: AC120V/60Hz	Humidity: 63 %RH
Report: File :MH-2020-50099	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: LTE B5		

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No.	Mk	Freq. MHz	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		39.7000	26.95	-11.28	15.67	30.00	-14.33			QP	
2		155.1300	26.82	-10.74	16.08	30.00	-13.92			QP	
3		748.7700	23.14	1.17	24.31	37.00	-12.69			QP	
4		913.6700	22.65	1.95	24.60	37.00	-12.40			QP	
5	*	953.4400	22.62	2.52	25.14	37.00	-11.86	134	360	QP	
6		981.5700	22.31	2.55	24.86	37.00	-12.14			QP	

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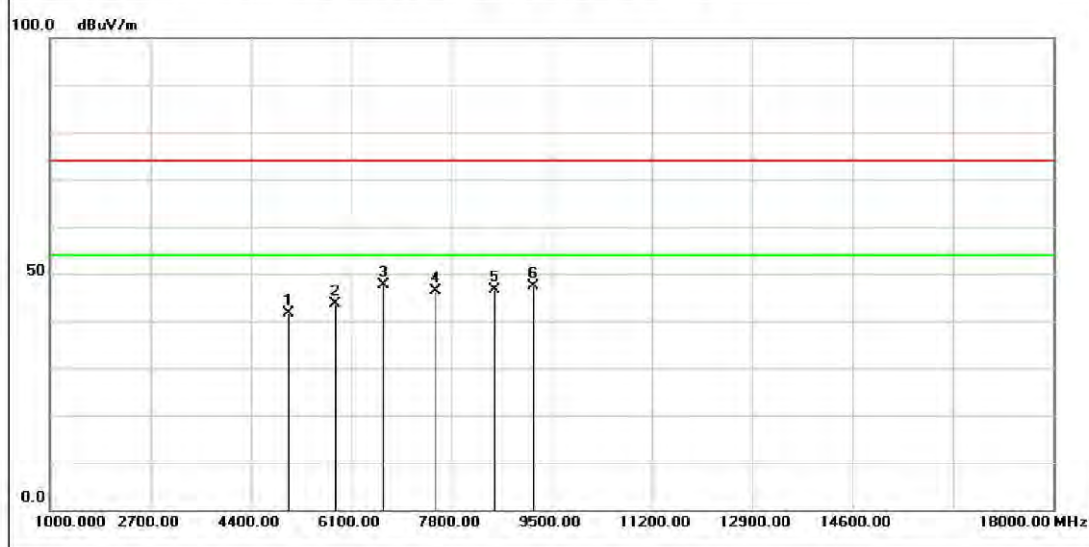
Above 1GHz

1GHz~18GHz

Config_1_H

Site: SGS 966 Chamber B	Date: 2020/5/30	Time: 上午 09:49:30
Limit: FCC Class B 1G-18G(Peak)	Polarization: Horizontal	Temperature: 21 °C
Mode: Config 1	Power: AC 120V/60Hz	Humidity: 63 %RH
Report: MH-2020-50099	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B5		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		5046.000	46.26	-4.74	41.52	74.00	-32.48			peak	
2		5845.000	47.05	-3.48	43.57	74.00	-30.43			peak	
3	*	6644.000	48.40	-0.74	47.66	74.00	-26.34	110	128	peak	
4		7545.000	44.64	1.80	46.44	74.00	-27.56			peak	
5		8531.000	44.32	2.40	46.72	74.00	-27.28			peak	
6		9194.000	44.44	2.86	47.30	74.00	-26.70			peak	

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

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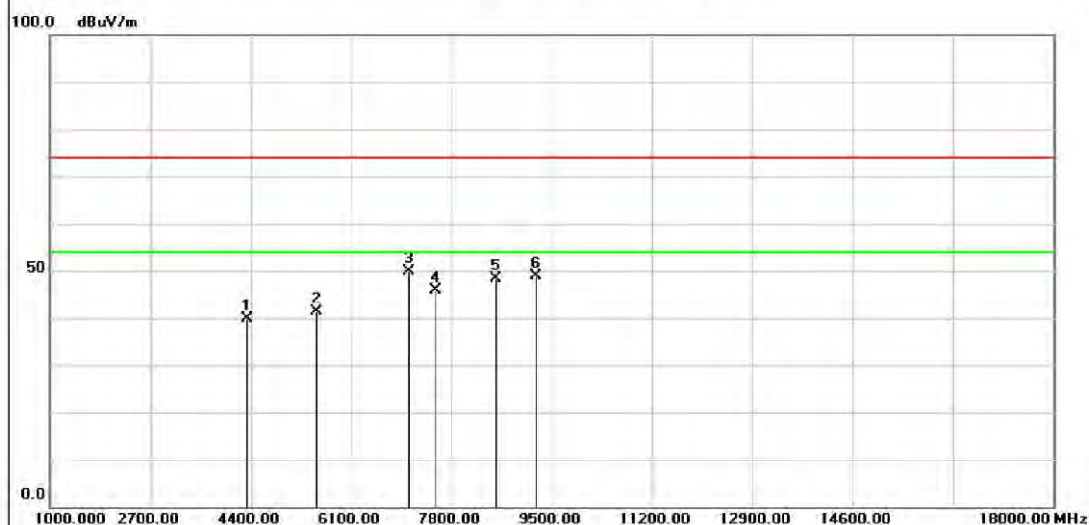
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Config_1_V

Site: SGS 966 Chamber B	Date: 2020/5/30	Time: 上午 09:11:27
Limit: FCC Class B 1G-18G(Peak)	Polarization: Vertical	Temperature: 21 °C
Mode: Config 1	Power: AC 120V/60Hz	Humidity: 63 %RH
Report: MH-2020-50099	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B5		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		4349.000	46.26	-6.45	39.81	74.00	-34.19			peak	
2		5522.000	46.01	-4.64	41.37	74.00	-32.63			peak	
3	*	7086.000	48.08	1.72	49.80	74.00	-24.20	100	52	peak	
4		7545.000	44.20	1.80	46.00	74.00	-28.00			peak	
5		8548.000	45.99	2.46	48.45	74.00	-25.55			peak	
6		9245.000	45.94	2.99	48.93	74.00	-25.07			peak	

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

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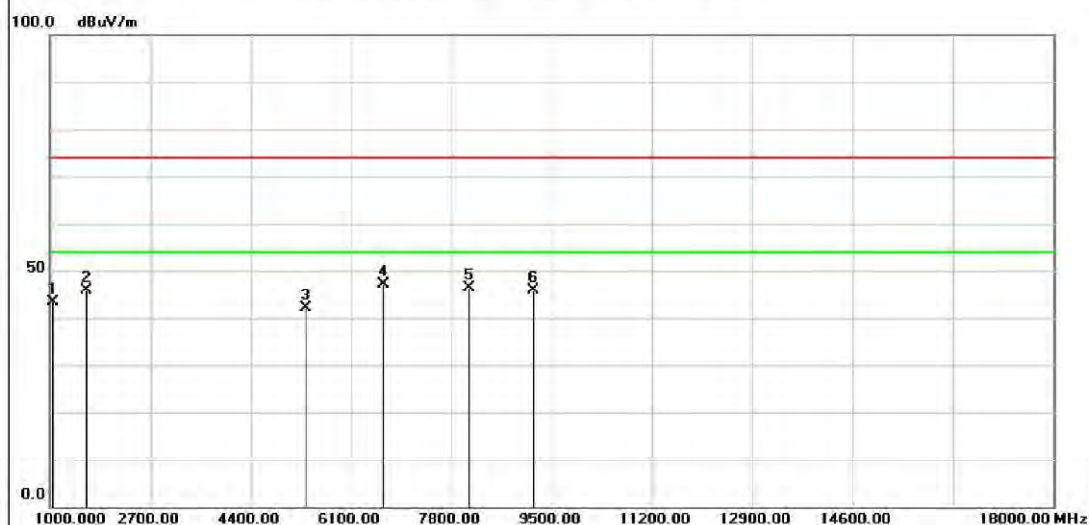
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Config_2_H

Site: SGS 966 Chamber B	Date: 2020/5/30	Time: 上午 10:35:26
Limit: FCC Class B 1G-18G(Peak)	Polarization: Horizontal	Temperature: 21 °C
Mode: Config 2	Power: AC 120V/60Hz	Humidity: 63 %RH
Report: MH-2020-50099	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: Internal Data Read		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		1051.000	58.44	-14.96	43.48	74.00	-30.52			peak	
2		1612.000	59.50	-13.66	45.84	74.00	-28.16			peak	
3		5335.000	47.31	-5.20	42.11	74.00	-31.89			peak	
4	*	6644.000	47.90	-0.74	47.16	74.00	-26.84	100	167	peak	
5		8106.000	43.79	2.48	46.27	74.00	-27.73			peak	
6		9194.000	42.94	2.86	45.80	74.00	-28.20			peak	

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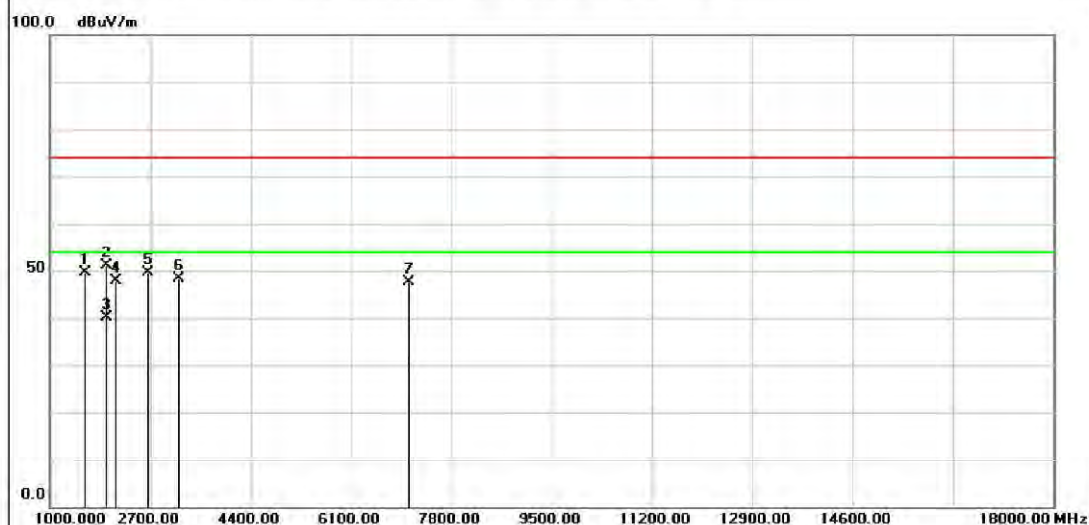
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Config_2_V

Site: SGS 966 Chamber B	Date: 2020/5/30	Time: 上午 10:12:10
Limit: FCC Class B 1G-18G(Peak)	Polarization: Vertical	Temperature: 21 °C
Mode: Config 2	Power: AC 120V/60Hz	Humidity: 63 %RH
Report: MH-2020-50099	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: Internal Data Read		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		1600.000	63.34	-13.66	49.68	74.00	-24.32			peak	
2		1960.000	63.46	-12.22	51.24	74.00	-22.76	100	198	peak	
3	*	1960.000	52.46	-12.22	40.24	54.00	-13.76	100	198	AVG	
4		2130.000	58.48	-10.64	47.84	74.00	-26.16			peak	
5		2668.000	59.19	-9.56	49.63	74.00	-24.37			peak	
6		3185.000	56.98	-8.56	48.42	74.00	-25.58			peak	
7		7086.000	45.92	1.72	47.64	74.00	-26.36			peak	

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

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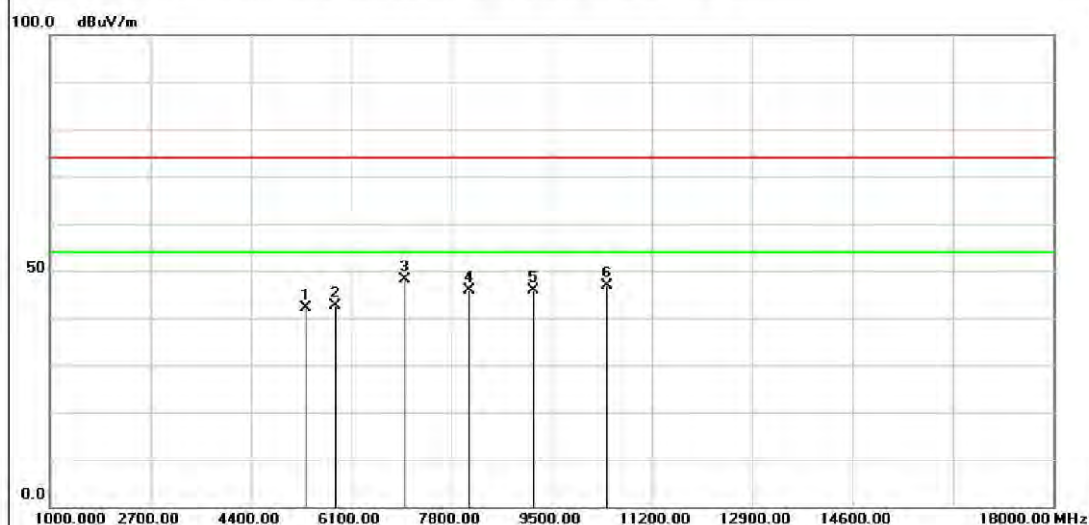
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Config_3_H

Site: SGS 966 Chamber B	Date: 2020/5/30	Time: 上午 11:22:44
Limit: FCC Class B 1G-18G(Peak)	Polarization: Horizontal	Temperature: 21 °C
Mode: Config 3	Power: AC 120V/60Hz	Humidity: 63 %RH
Report: MH-2020-50099	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: REC mode back		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		5335.000	47.31	-5.20	42.11	74.00	-31.89			peak	
2		5845.000	46.05	-3.48	42.57	74.00	-31.43			peak	
3	*	7018.000	46.75	1.48	48.23	74.00	-25.77	100	205	peak	
4		8106.000	43.29	2.48	45.77	74.00	-28.23			peak	
5		9194.000	42.94	2.86	45.80	74.00	-28.20			peak	
6		10435.000	41.62	5.29	46.91	74.00	-27.09			peak	

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

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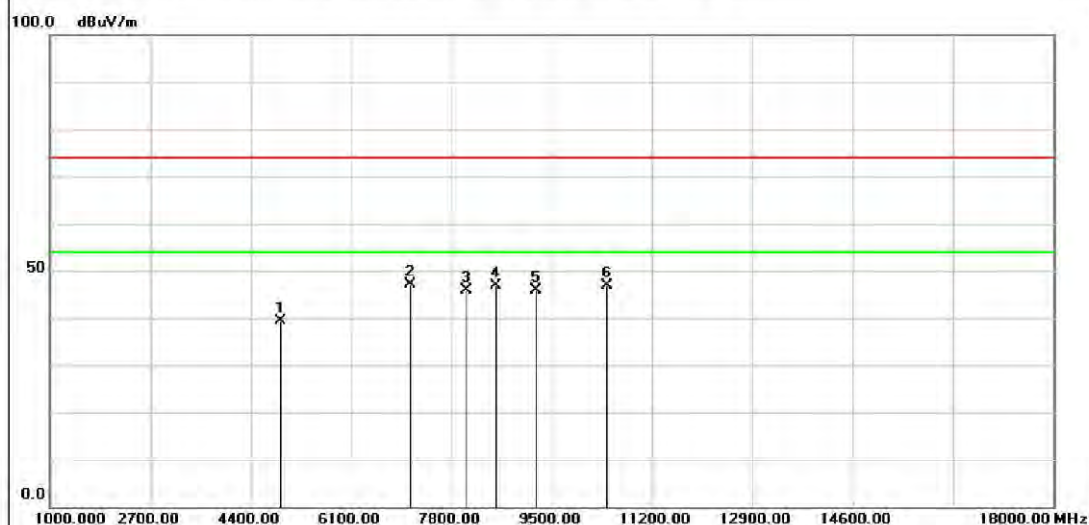
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Config_3_V

Site: SGS 966 Chamber B	Date: 2020/5/30	Time: 上午 10:57:14
Limit: FCC Class B 1G-18G(Peak)	Polarization: Vertical	Temperature: 21 °C
Mode: Config 3	Power: AC 120V/60Hz	Humidity: 63 %RH
Report: MH-2020-50099	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: REC mode back		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		4910.000	44.81	-5.34	39.47	74.00	-34.53			peak	
2	*	7103.000	45.48	1.77	47.25	74.00	-26.75	100	141	peak	
3		8055.000	43.33	2.60	45.93	74.00	-28.07			peak	
4		8548.000	44.49	2.46	46.95	74.00	-27.05			peak	
5		9245.000	42.94	2.99	45.93	74.00	-28.07			peak	
6		10435.000	41.65	5.29	46.94	74.00	-27.06			peak	

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

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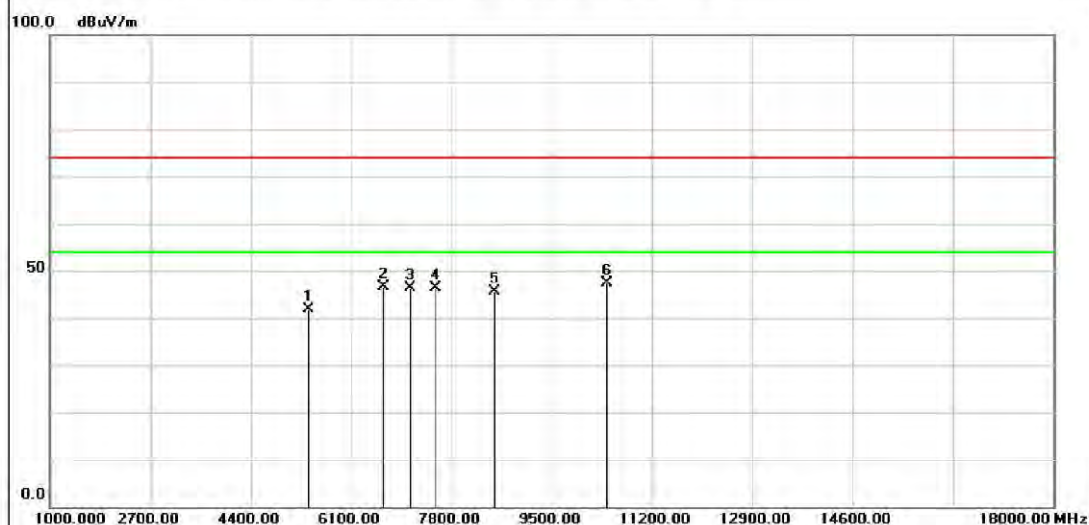
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Config_4_H

Site: SGS 966 Chamber B	Date: 2020/6/17	Time: 下午 06:38:02
Limit: FCC Class B 1G-18G(Peak)	Polarization: Horizontal	Temperature: 22 °C
Mode: Config 4	Power: AC 120V/60Hz	Humidity: 65 %RH
Report: MH-2020-50099	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B5		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		5386.000	46.84	-5.03	41.81	74.00	-32.19			peak	
2		6644.000	47.40	-0.74	46.66	74.00	-27.34			peak	
3		7103.000	44.71	1.77	46.48	74.00	-27.52			peak	
4		7545.000	44.64	1.80	46.44	74.00	-27.56			peak	
5		8531.000	43.32	2.40	45.72	74.00	-28.28			peak	
6	*	10435.000	42.12	5.29	47.41	74.00	-26.59	100	142	peak	

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

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Config_4_V

Site: SGS 966 Chamber B	Date: 2020/6/17	Time: 下午 06:12:41
Limit: FCC Class B 1G-18G(Peak)	Polarization: Vertical	Temperature: 22 °C
Mode: Config 4	Power: AC 120V/60Hz	Humidity: 65 %RH
Report: MH-2020-50099	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B5		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		2853.000	47.90	-9.04	38.86	74.00	-35.14			peak	
2		4910.000	46.31	-5.34	40.97	74.00	-33.03			peak	
3		7086.000	45.42	1.72	47.14	74.00	-26.86			peak	
4		8548.000	43.99	2.46	46.45	74.00	-27.55			peak	
5		9245.000	43.94	2.99	46.93	74.00	-27.07			peak	
6	*	9806.000	44.92	3.09	48.01	74.00	-25.99	105	210	peak	

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

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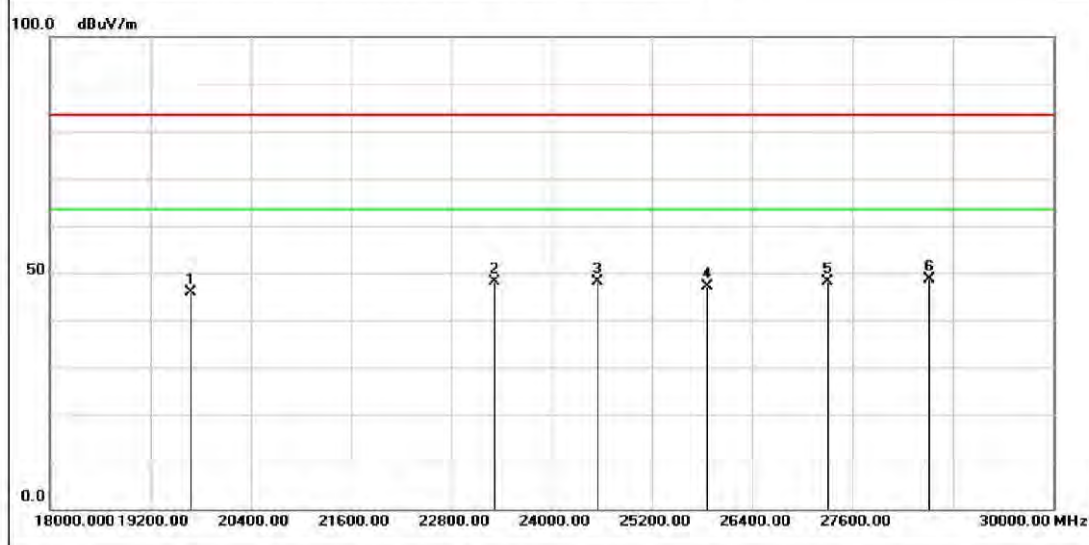


18GHz~30GHz

Config_1_H

Site: SGS 966 Chamber B	Date: 2020/5/30	Time: 下午 01:42:17
Limit: FCC Class B 1M 1G-40G(Peak)	Polarization: Horizontal	Temperature: 21 °C
Mode: Config 1	Power: AC 120V/60Hz	Humidity: 63 %RH
Report: MH-2020-50099	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B5		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		19680.000	44.64	1.35	45.99	83.50	-37.51			peak	
2		23316.000	44.07	4.14	48.21	83.50	-35.29			peak	
3		24552.000	43.13	4.99	48.12	83.50	-35.38			peak	
4		25860.000	42.42	4.78	47.20	83.50	-36.30			peak	
5		27300.000	43.12	5.06	48.18	83.50	-35.32			peak	
6	*	28524.000	44.23	4.50	48.73	83.50	-34.77	110	185	peak	

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

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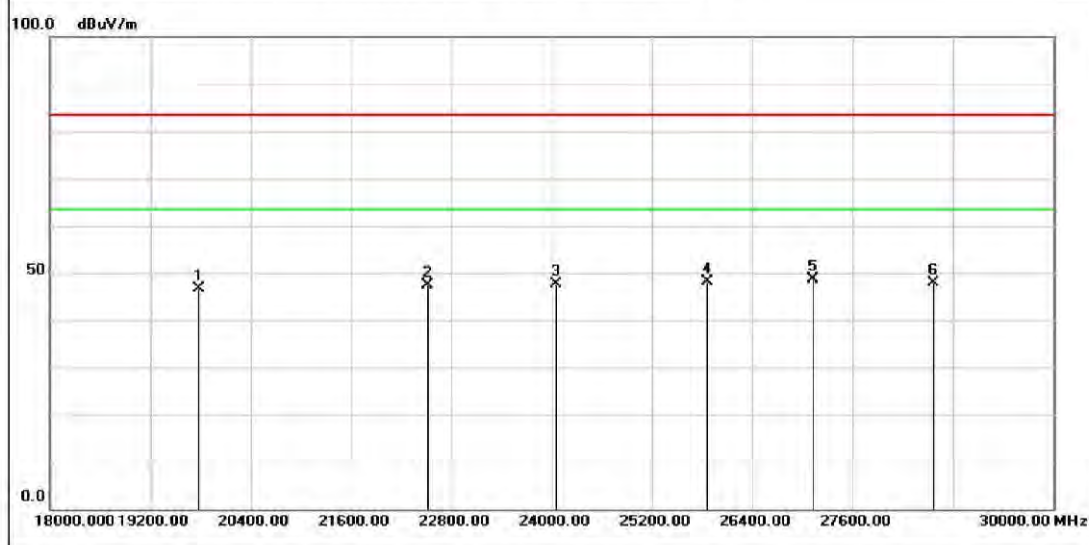
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Config_1_V

Site: SGS 966 Chamber B	Date: 2020/5/30	Time: 下午 01:10:53
Limit: FCC Class B 1M 1G-40G(Peak)	Polarization: Vertical	Temperature: 21 °C
Mode: Config 1	Power: AC 120V/60Hz	Humidity: 63 %RH
Report: MH-2020-50099	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B5		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		19776.000	45.18	1.48	46.66	83.50	-36.84			peak	
2		22512.000	43.94	3.50	47.44	83.50	-36.06			peak	
3		24048.000	43.10	4.64	47.74	83.50	-35.76			peak	
4		25860.000	43.43	4.78	48.21	83.50	-35.29			peak	
5	*	27132.000	44.04	4.69	48.73	83.50	-34.77	100	152	peak	
6		28572.000	43.52	4.47	47.99	83.50	-35.51			peak	

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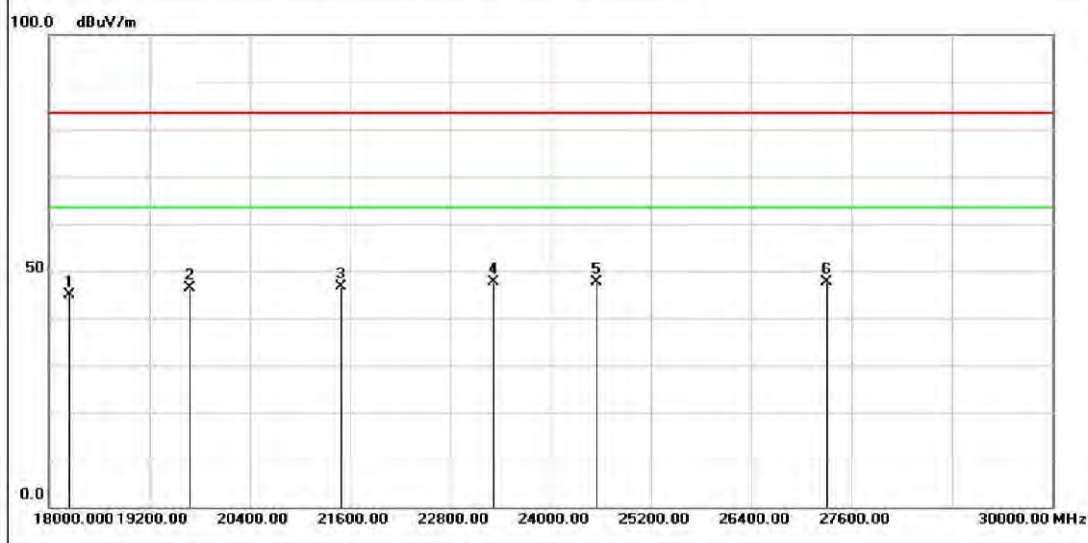
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Config_2_H

Site: SGS 966 Chamber B	Date: 2020/5/30	Time: 下午 02:42:17
Limit: FCC Class B 1M 1G-40G(Peak)	Polarization: Horizontal	Temperature: 21 °C
Mode: Config 2	Power: AC 120V/60Hz	Humidity: 63 %RH
Report: MH-2020-50099	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: Internal Data Read		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		18252.000	44.73	0.20	44.93	83.50	-38.57			peak	
2		19680.000	45.14	1.35	46.49	83.50	-37.01			peak	
3		21492.000	43.75	2.80	46.55	83.50	-36.95			peak	
4	*	23316.000	43.57	4.14	47.71	83.50	-35.79	103	310	peak	
5		24552.000	42.63	4.99	47.62	83.50	-35.88			peak	
6		27300.000	42.62	5.06	47.68	83.50	-35.82			peak	

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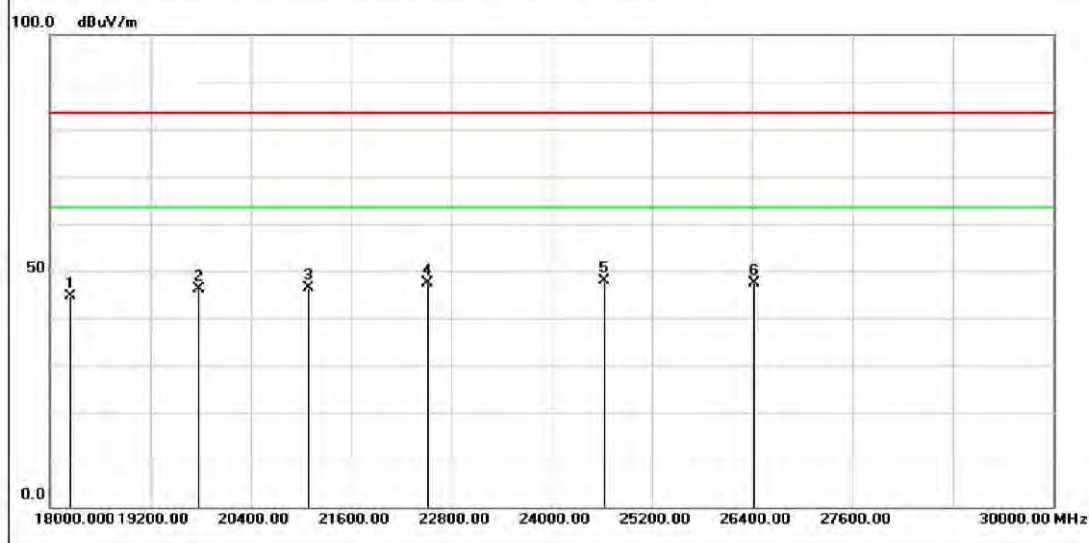
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Config_2_V

Site: SGS 966 Chamber B	Date: 2020/5/30	Time: 下午 02:18:53
Limit: FCC Class B 1M 1G-40G(Peak)	Polarization: Vertical	Temperature: 21 °C
Mode: Config 2	Power: AC 120V/60Hz	Humidity: 63 %RH
Report: MH-2020-50099	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: Internal Data Read		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		18240.000	44.53	0.21	44.74	83.50	-38.76			peak	
2		19776.000	44.68	1.48	46.16	83.50	-37.34			peak	
3		21096.000	43.72	2.72	46.44	83.50	-37.06			peak	
4		22512.000	43.94	3.50	47.44	83.50	-36.06			peak	
5	*	24636.000	42.80	4.98	47.78	83.50	-35.72	100	218	peak	
6		26424.000	42.83	4.56	47.39	83.50	-36.11			peak	

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

Page: 1

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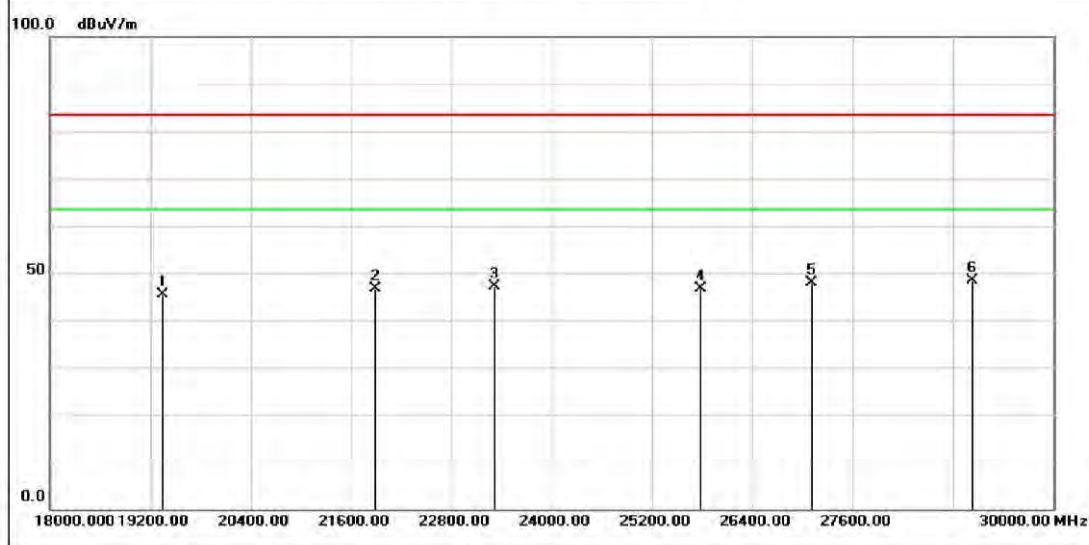
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Config_3_H

Site: SGS 966 Chamber B	Date: 2020/5/30	Time: 下午 04:33:10
Limit: FCC Class B 1M 1G-40G(Peak)	Polarization: Horizontal	Temperature: 21 °C
Mode: Config 3	Power: AC 120V/60Hz	Humidity: 63 %RH
Report: MH-2020-50099	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: REC mode back		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		19344.000	44.54	0.86	45.40	83.50	-38.10			peak	
2		21888.000	44.18	2.57	46.75	83.50	-36.75			peak	
3		23316.000	43.07	4.14	47.21	83.50	-36.29			peak	
4		25788.000	41.91	4.74	46.65	83.50	-36.85			peak	
5		27108.000	43.33	4.64	47.97	83.50	-35.53			peak	
6	*	29028.000	44.16	4.25	48.41	83.50	-35.09	100	205	peak	

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

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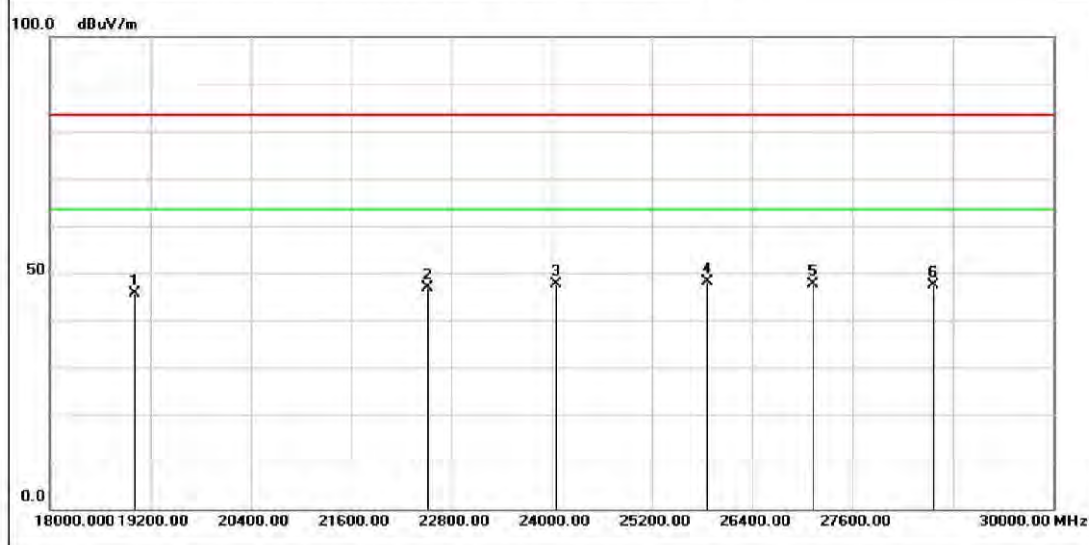
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Config_3_V

Site: SGS 966 Chamber B	Date: 2020/5/30	Time: 下午 03:29:51
Limit: FCC Class B 1M 1G-40G(Peak)	Polarization: Vertical	Temperature: 21 °C
Mode: Config 3	Power: AC 120V/60Hz	Humidity: 63 %RH
Report: MH-2020-50099	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: REC mode back		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		19008.000	45.29	0.30	45.59	83.50	-37.91			peak	
2		22512.000	43.44	3.50	46.94	83.50	-36.56			peak	
3		24048.000	43.10	4.64	47.74	83.50	-35.76			peak	
4	*	25860.000	43.43	4.78	48.21	83.50	-35.29	105	208	peak	
5		27132.000	43.04	4.69	47.73	83.50	-35.77			peak	
6		28572.000	43.02	4.47	47.49	83.50	-36.01			peak	

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

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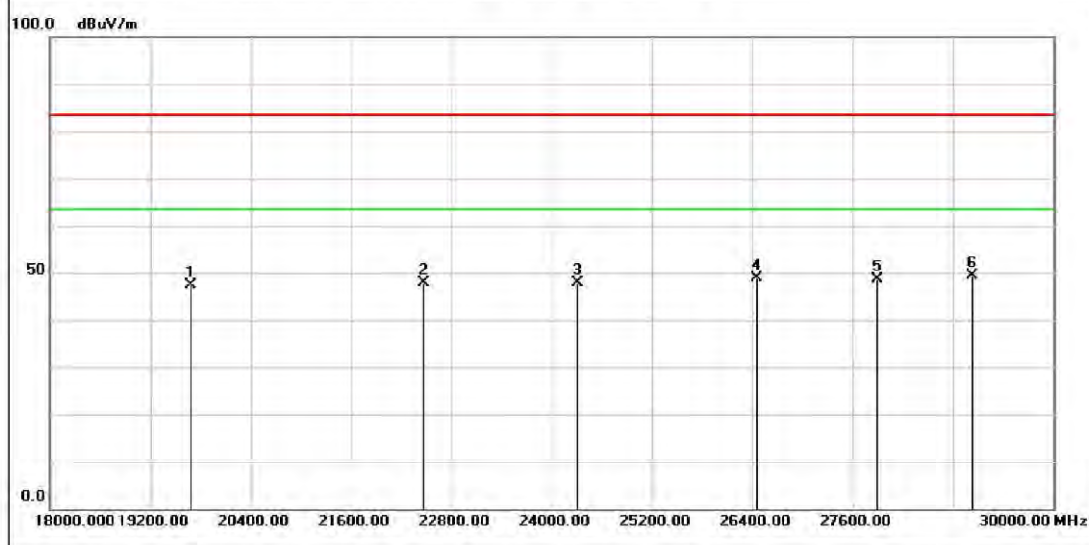
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Config_4_H

Site: SGS 966 Chamber B	Date: 2020/6/17	Time: 下午 07:59:05
Limit: FCC Class B 1M 1G-40G(Peak)	Polarization: Horizontal	Temperature: 22 °C
Mode: Config 4	Power: AC 120V/60Hz	Humidity: 65 %RH
Report: MH-2020-50099	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B5		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		19680.000	46.14	1.35	47.49	83.50	-36.01			peak	
2		22464.000	44.51	3.43	47.94	83.50	-35.56			peak	
3		24312.000	43.03	4.84	47.87	83.50	-35.63			peak	
4		26448.000	44.27	4.54	48.81	83.50	-34.69			peak	
5		27900.000	43.82	4.70	48.52	83.50	-34.98			peak	
6	*	29028.000	45.16	4.25	49.41	83.50	-34.09	104	123	peak	

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

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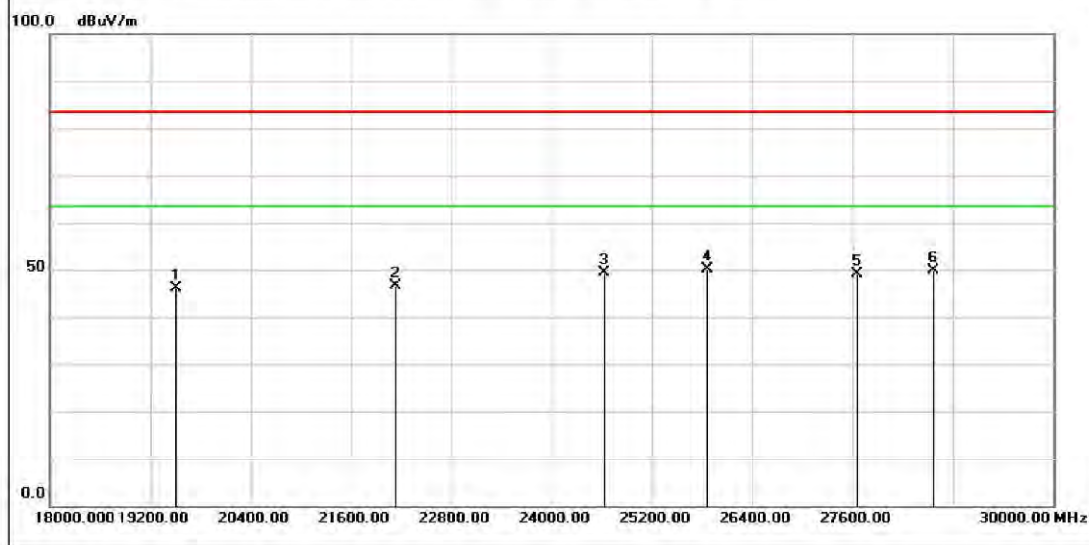
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Config_4_V

Site: SGS 966 Chamber B	Date: 2020/6/17	Time: 下午 07:22:12
Limit: FCC Class B 1M 1G-40G(Peak)	Polarization: Vertical	Temperature: 22 °C
Mode: Config 4	Power: AC 120V/60Hz	Humidity: 65 %RH
Report: MH-2020-50099	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B5		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		19512.000	44.91	1.11	46.02	83.50	-37.48			peak	
2		22140.000	43.90	2.78	46.68	83.50	-36.82			peak	
3		24636.000	44.30	4.98	49.28	83.50	-34.22			peak	
4	*	25860.000	45.43	4.78	50.21	83.50	-33.29	100	205	peak	
5		27660.000	43.96	5.17	49.13	83.50	-34.37			peak	
6		28572.000	45.52	4.47	49.99	83.50	-33.51			peak	

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

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