



FCC CERTIFICATION REPORT

Test Report No. : MH/2018/80179
Applicant : Sharp Corporation, Mobile Communication B.U.
Address : 2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi, Hiroshima
 739-0192, Japan
Manufacturer : Sharp Corporation
Address : 1 Takumi-cho, Sakai-ku, Sakai-Shi, Osaka 590-8522, Japan

Equipment Under Test (EUT) :
Product Name : Smart Phone

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

Date of Receipt : Aug. 29, 2018
Date of Test : Aug. 29 ~ Sep. 11, 2018
Date of Issue : Sep. 28, 2018

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.

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Tested By:

Thomas Liu

Date

Sep. 28, 2018

Thomas Liu (Engineer)

Approved By

Eddy Cheng

Date

Sep. 28, 2018

Eddy Cheng (Asst. Supervisor)



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Revision History

Report Number	Revision	Description	Issue Date
MH/2018/80179	Rev.00	Initial creation of document	Sep. 28, 2018

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1. General 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 : Smart Phone

1.3 Details of EUT

Power Supply : AC 100~240V, 50/60Hz
 Highest operate description : 2480 MHz
 Battery : 3.85V, 2700mAh, 10.40Wh
 Worst case : CE worst case : Config 2
 Below RE worst case : Config 2
 Above RE worst case : Config 3

	FCC ID : APYHRO00266
1 ST Source (eMCP memory, PCB, Shield, Sub camera)	Worst case
2 nd Source (eMCP memory, PCB, Shield, Sub camera)	V

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Salom/XN-2QC25 Data Cable : Luxshare-ICT/L6KU2007-CS-H Headset : Sony / MDR-EX15AP	Config 1	Config2	Config 3
Applicable standard	FCC 15B		
Accessories	EUT + AC Adaptor +USB Cable +PHF	EUT +USB Cable +PHF	EUT + AC Adaptor +USB Cable +PHF
Main function	Speech	Data Link	Camera
Additional function	BT+WiFi +GPS+NFC		
Description			
radiated emission	GSM 850/1900 WCDMA BV LTE B05/12/17	Data R/W	MP3/ ;REC mode (Front/Back) ;play REC
conducted emission (DC Power)	NA	NA	NA
conducted emission (AC Power)	GSM 850/1900 WCDMA BV LTE B05/12/17	Data R/W	MP3/ ;REC mode (Front/Back) ;play REC

1.4 Operation Procedure

Config 1

1. Let EUT plug in SD Card & SIM Card & Earphone, connect to Adapter with USB cable and turn it on.
2. Turn on BT function and Link BT Speaker.
3. Turn on WiFi function, connected with NB WiFi-AP (5G/2.4G), NB ping EUT IP Address.
4. Turn on NFC function and use proximity card to close the back of the phone before and after the test to confirm that the NFC function is normal.
5. Set up GPS simulator and turn on GPS test app.
6. Set up base station, set channel (GSM 850/1900, WCDMA B5, LTE B5/B12/B17)Link(2G/3G talk) & Idle.
7. Start the test.

Config 2

1. Let EUT plug in SD Card & SIM Card & Earphone, connect to NB with USB cable and turn it on.
2. Turn on BT function and Link BT Speaker.
3. Turn on WiFi function, connected with NB WiFi-AP (5G/2.4G), NB ping EUT IP Address.
4. Turn on NFC function and use proximity card to close the back of the phone before and after the test to confirm that the NFC function is normal.
5. Set up GPS simulator and turn on GPS test app.
6. Execute Data Read & Write with EUT in NB.
7. Start the test.

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Config 3

1. Let EUT plug in SD Card & SIM Card & Earphone, connect to Adapter with USB cable and turn it on.
2. Turn on BT function and Link BT Speaker.
3. Turn on WiFi function, connected with NB WiFi-AP (5G/2.4G), NB ping EUT IP Address.
4. Turn on NFC function and use proximity card to close the back of the phone before and after the test to confirm that the NFC function is normal.
5. Set up GPS simulator and turn on GPS test app.
6. Execute music playback MP3 (1k audio source).
7. Turn on Camera (Front/Rear) and execute Record.
8. Start the test.

1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
SIM Card	R&S	CMW-Z05	8952530076180138474
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 (RE)	DELL	Latitude E6440	3VGS162
Notebook (CE)	DELL	Latitude E5430	COVZYW1
Mouse (RE,CE)	Logitech	M-U0026	1738HS05FGU8
Printer (RE,CE)	HP	VCVRA-1004	CN33K19J3F
Earphone	SONY	MDR-EX15AP	N/A
Adapter	Salom	XN-2QC25	N/A
Micro SD	Transcend	Micro SDHC (Class4)	N/A

Support Equipment Used in Tested Cable

Cable Type	Core	Length	Shielding/Non-shielding
USB Cable*2	N/A	1.8m	Shielding
USB Cable	N/A	1m	Shielding
Earphone Cable	N/A	1.25m	Non-shielding

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1.6 Modification List

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

1.7 Accessories Cable List

Cable Type	Core	Length	Category	Shielding/Non-shielding
N/A	N/A	N/A	N/A	N/A

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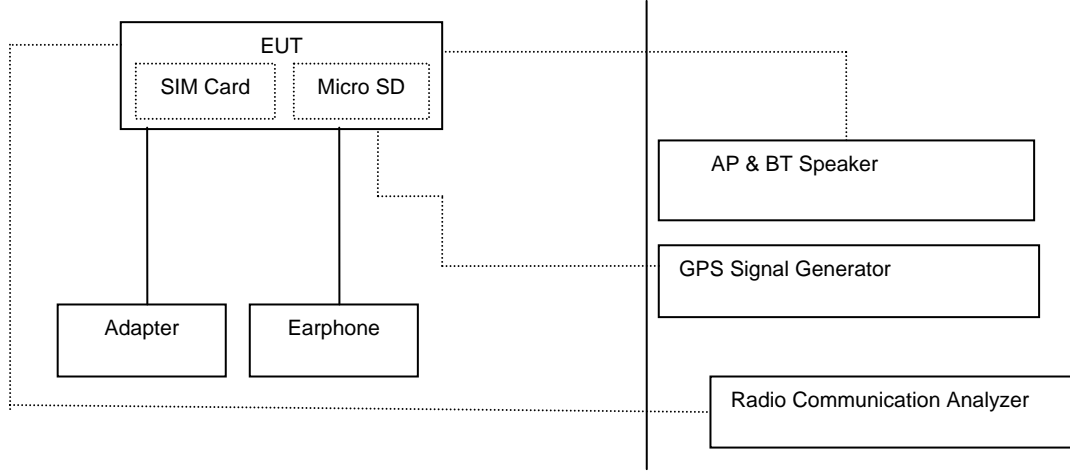
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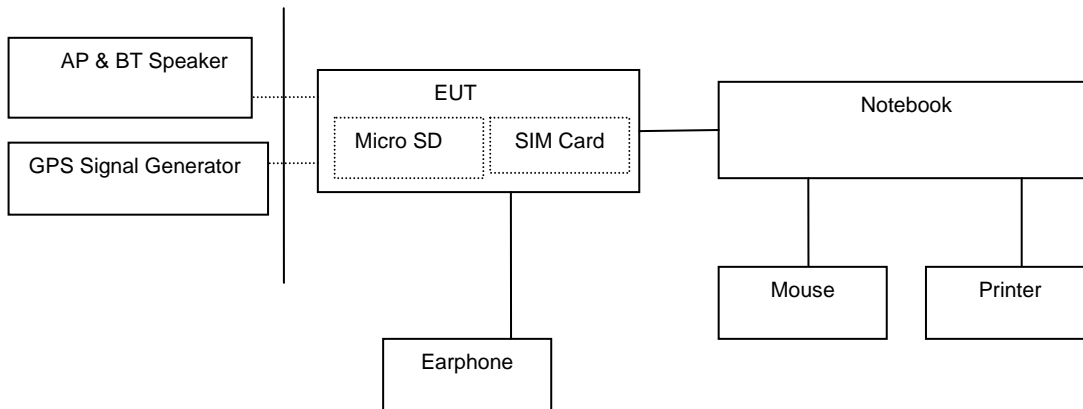


1.8 Test Set-Up Configuration

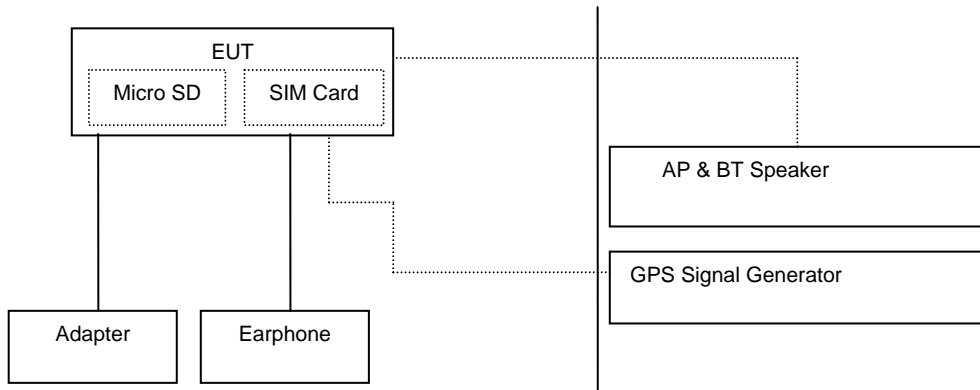
Config1



Config2



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 Summary of Results

Standard	Test Type	Highest Emission			
		Result	Phase/Pol.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B Class B	Conducted Emission	PASS	Line	0.5540	-7.06 (AVG)
			Neutral	0.5740	-7.09 (AVG)
	Radiated Emission	PASS	Ver.	30.0000	-5.80 (QP)

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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 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.44	46
Above 960	49.54	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	79.3	59.3	73.9	53.9

CISPR 22 Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	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 3m)		Class B (dBuV/m) (at 3m)	
	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.B EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101300	2017/11/1	2018/10/31
Coaxial Cable	EMC Instruments Corp.	EMC5D-BM-BM-3000	1401004	2018/5/25	2019/5/24
LISN	TESEQ	NNB 51	36061	2018/2/26	2019/2/25
Pulse Limiter	R&S	ESH3Z2	102099	2018/6/8	2019/6/7
LISN	TESEQ	NNB 51	36062	2018/3/30	2019/3/29
Communication Tester	R&S	CMU200	119988	2018/2/22	2019/2/21
Communication Tester	R&S	CMW500	152303	2018/2/21	2019/2/20
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

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 Measurement Uncertainty of Conducted Emission
 Expanded uncertainty Ulab (K=2) of conducted emission is 2.25 dB
 Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of AC mains Conducted Emission is 3.44dB

2.4.2 Operating Environment

Temperature : 22 degree C

Humidity : 64 %RH

Atmospheric Pressure : 992 mBar

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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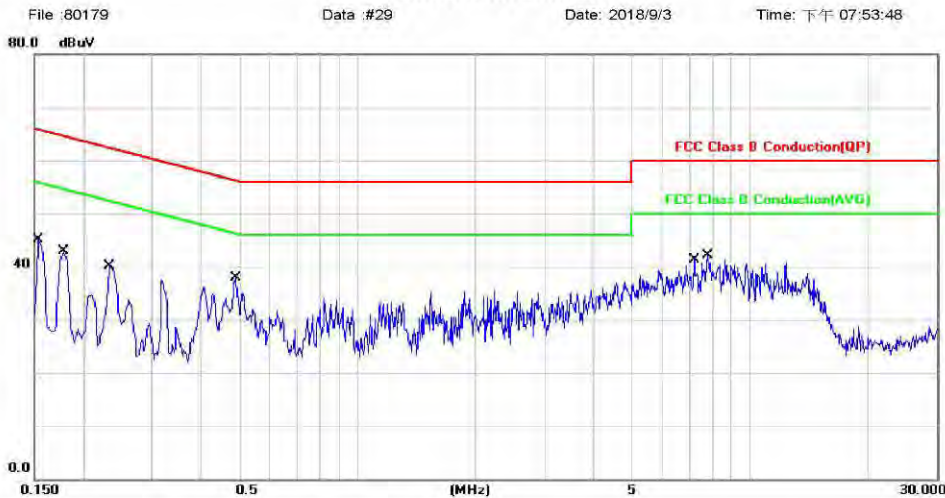


2.4.4 Measurement Data:

Config_1_L

Site : Conduction Room Phase: **L1** Temperature: 22 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 64 %
 Mode: Config 1
 Note: LTE B17

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1540	20.75	19.66	40.41	65.78	-25.37	QP	
2		0.1540	7.28	19.66	26.94	55.78	-28.84	AVG	
3		0.1780	17.50	19.70	37.20	64.58	-27.38	QP	
4		0.1780	4.62	19.70	24.32	54.58	-30.26	AVG	
5		0.2340	13.85	19.80	33.65	62.31	-28.66	QP	
6		0.2340	6.03	19.80	25.83	52.31	-26.48	AVG	
7		0.4900	12.84	20.21	33.05	56.17	-23.12	QP	
8 *		0.4900	7.75	20.21	27.96	46.17	-18.21	AVG	
9		7.1780	13.58	19.98	33.56	60.00	-26.44	QP	
10		7.1780	4.76	19.98	24.74	50.00	-25.26	AVG	
11		7.7740	11.74	19.96	31.70	60.00	-28.30	QP	
12		7.7740	4.90	19.96	24.86	50.00	-25.14	AVG	

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

File :80179\Data :#29

Page: 1

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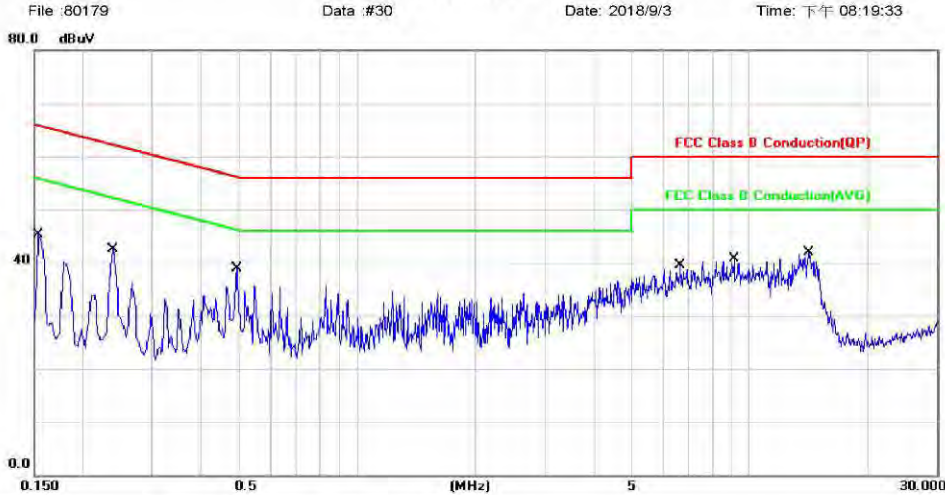
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Config_1_N

Site : Conduction Room Phase: **N** Temperature: 22 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 64 %
 Mode: Config 1
 Note: LTE B17

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1540	20.44	19.65	40.09	65.78	-25.69	QP	
2		0.1540	6.14	19.65	25.79	55.78	-29.99	AVG	
3		0.2380	15.28	19.78	35.06	62.17	-27.11	QP	
4		0.2380	4.93	19.78	24.71	52.17	-27.46	AVG	
5		0.4940	12.55	20.21	32.76	56.10	-23.34	QP	
6 *		0.4940	5.22	20.21	25.43	46.10	-20.67	AVG	
7		6.6420	11.64	19.97	31.61	60.00	-28.39	QP	
8		6.6420	3.67	19.97	23.64	50.00	-26.36	AVG	
9		9.0940	12.50	19.95	32.45	60.00	-27.55	QP	
10		9.0940	3.65	19.95	23.60	50.00	-26.40	AVG	
11		14.0780	15.13	19.99	35.12	60.00	-24.88	QP	
12		14.0780	2.79	19.99	22.78	50.00	-27.22	AVG	

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

File :80179\Data :#30

Page: 1

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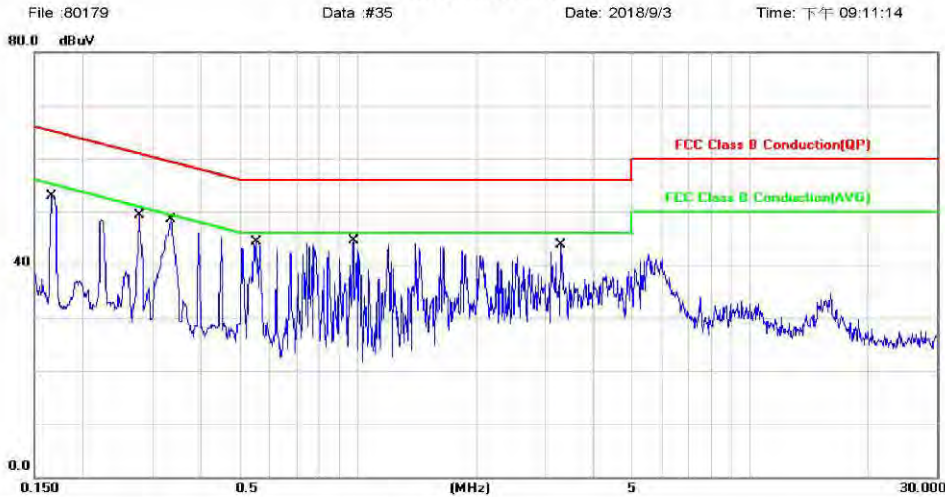
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Config_2_L

Site : Conduction Room Phase: **L1** Temperature: 22 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 64 %
 Mode: Config 2
 Note: SD Card Read

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1660	32.53	19.68	52.21	65.16	-12.95	QP	
2		0.1660	24.52	19.68	44.20	55.16	-10.96	AVG	
3		0.2780	28.27	19.87	48.14	60.88	-12.74	QP	
4		0.2780	22.13	19.87	42.00	50.88	-8.88	AVG	
5		0.3340	28.41	19.95	48.36	59.35	-10.99	QP	
6		0.3340	21.24	19.95	41.19	49.35	-8.16	AVG	
7		0.5540	23.62	20.19	43.81	56.00	-12.19	QP	
8	*	0.5540	18.75	20.19	38.94	46.00	-7.06	AVG	
9		0.9740	23.55	19.86	43.41	56.00	-12.59	QP	
10		0.9740	16.25	19.86	36.11	46.00	-9.89	AVG	
11		3.2980	22.58	20.31	42.89	56.00	-13.11	QP	
12		3.2980	15.20	20.31	35.51	46.00	-10.49	AVG	

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

File :80179\Data :#35

Page: 1

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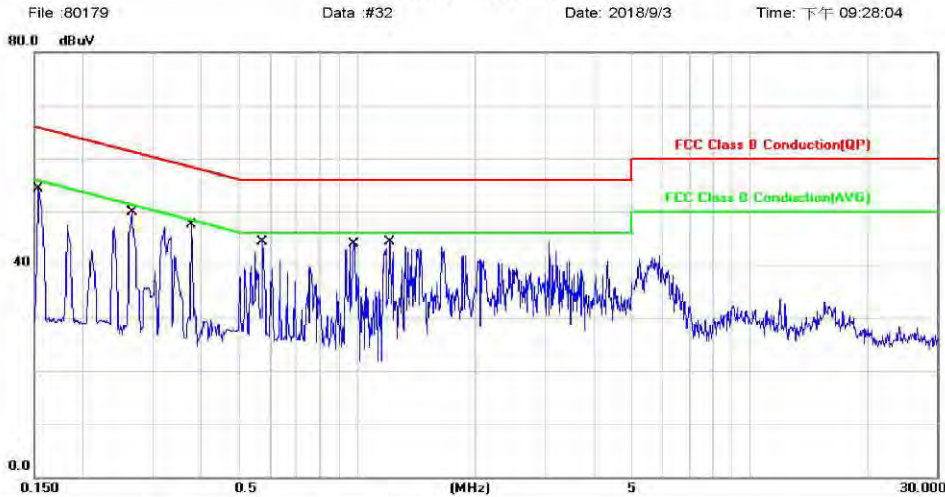
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Config_2_N

Site : Conduction Room Phase: **N** Temperature: 22 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 64 %
 Mode: Config 2
 Note: SD Card Read

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1540	33.25	19.65	52.90	65.78	-12.88	QP	
2		0.1540	24.37	19.65	44.02	55.78	-11.76	AVG	
3		0.2660	28.57	19.83	48.40	61.24	-12.84	QP	
4		0.2660	22.57	19.83	42.40	51.24	-8.84	AVG	
5		0.3780	26.30	20.02	46.32	58.32	-12.00	QP	
6		0.3780	21.20	20.02	41.22	48.32	-7.10	AVG	
7		0.5740	23.53	20.16	43.69	56.00	-12.31	QP	
8 *		0.5740	18.75	20.16	38.91	46.00	-7.09	AVG	
9		0.9780	23.58	19.85	43.43	56.00	-12.57	QP	
10		0.9780	16.38	19.85	36.23	46.00	-9.77	AVG	
11		1.2060	23.02	19.97	42.99	56.00	-13.01	QP	
12		1.2060	17.42	19.97	37.39	46.00	-8.61	AVG	

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

File :80179\Data :#32

Page: 1

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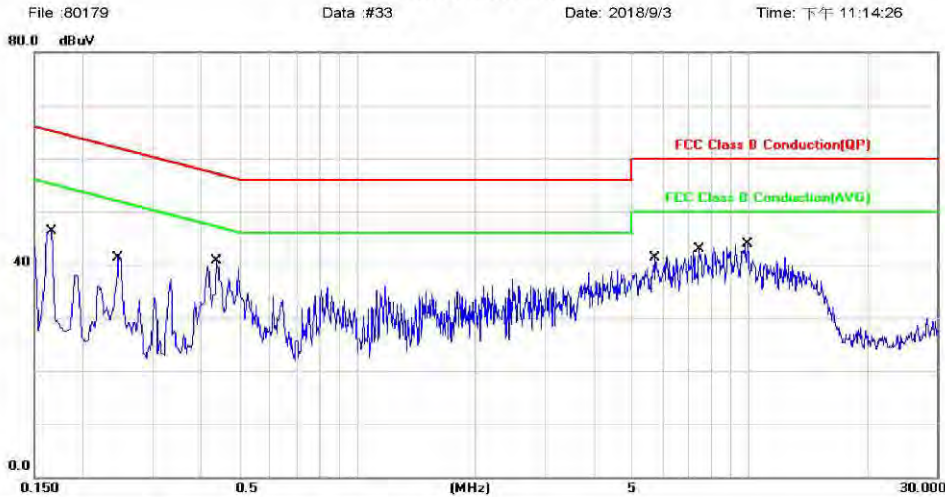
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Config_3_L

Site : Conduction Room Phase: **L1** Temperature: 22 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 64 %
 Mode: Config 3
 Note: REC Mode(Back)

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1660	20.12	19.68	39.80	65.16	-25.36	QP	
2		0.1660	7.09	19.68	26.77	55.16	-28.39	AVG	
3		0.2468	14.00	19.82	33.82	61.86	-28.04	QP	
4		0.2468	5.96	19.82	25.78	51.86	-26.08	AVG	
5		0.4380	8.73	20.13	28.86	57.10	-28.24	QP	
6 *		0.4380	3.51	20.13	23.64	47.10	-23.46	AVG	
7		5.7300	11.72	19.99	31.71	60.00	-28.29	QP	
8		5.7300	4.26	19.99	24.25	50.00	-25.75	AVG	
9		7.4180	12.11	19.97	32.08	60.00	-27.92	QP	
10		7.4180	5.06	19.97	25.03	50.00	-24.97	AVG	
11		9.8300	12.88	19.95	32.83	60.00	-27.17	QP	
12		9.8300	4.87	19.95	24.82	50.00	-25.18	AVG	

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

File :80179\Data :#33

Page: 1

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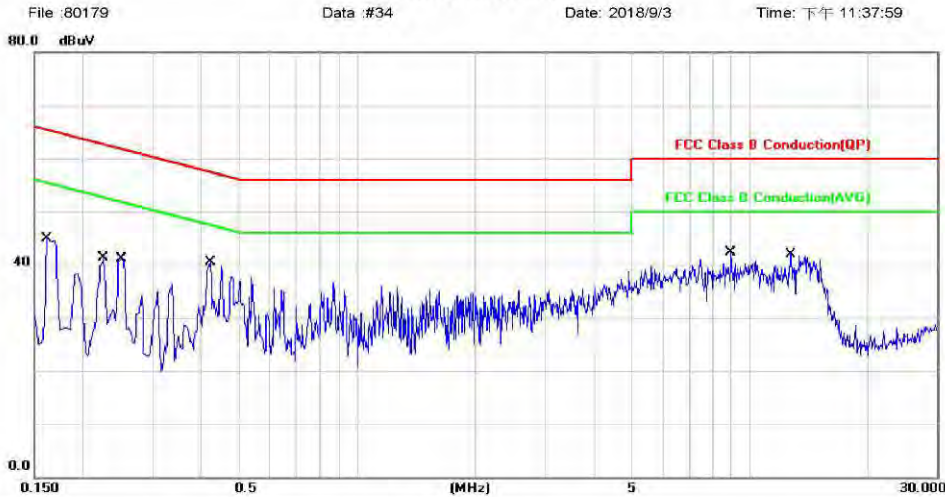
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Config_3_N

Site : Conduction Room Phase: **N** Temperature: 22 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 64 %
 Mode: Config 3
 Note: REC Mode(Back)

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1620	20.65	19.66	40.31	65.36	-25.05	QP	
2		0.1620	6.42	19.66	26.08	55.36	-29.28	AVG	
3		0.2260	13.33	19.76	33.09	62.60	-29.51	QP	
4		0.2260	2.84	19.76	22.60	52.60	-30.00	AVG	
5		0.2500	14.23	19.80	34.03	61.76	-27.73	QP	
6		0.2500	3.83	19.80	23.63	51.76	-28.13	AVG	
7		0.4220	10.48	20.09	30.57	57.41	-26.84	QP	
8 *		0.4220	3.60	20.09	23.69	47.41	-23.72	AVG	
9		8.9180	13.32	19.95	33.27	60.00	-26.73	QP	
10		8.9180	3.87	19.95	23.82	50.00	-26.18	AVG	
11		12.7060	12.70	19.97	32.67	60.00	-27.33	QP	
12		12.7060	2.29	19.97	22.26	50.00	-27.74	AVG	

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

File :80179\Data :#34

Page: 1

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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	2017/12/12	2018/12/11
EMI Test Receiver	R&S	ESCI 3	101343	2018/1/31	2019/1/30
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	2018/9/7	2019/9/6
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	2018/9/7	2019/9/6
Pre Amplifier	EMC Instruments Corp.	EMC330	980178	2018/3/31	2019/3/30
Pre Amplifier	EMC Instruments Corp.	EMC330	980179	2018/3/31	2019/3/30
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150917	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150919	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150820	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150918	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150821	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150822	2017/9/18	2018/9/17
Universal Digital Radio Communication Tester	R&S	CMU 200	119988	2018/2/22	2019/2/21
Wideband Radio Communication Tester	R&S	CMW 500	152303	2018/2/21	2019/2/20
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Controller	MF	MF-7802	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	Chance Most	10M Chamber	10M SAC	2017/12/31	2018/12/30
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

SGS Taiwan LTD. Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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 966A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	101419	2018/5/15	2019/5/14
EMI Test Receiver	R&S	ESR 7	101459	2018/2/21	2019/2/20
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D673	2017/10/16	2018/10/15
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	2017/12/12	2018/12/11
Pre Amplifier	EMC Instruments Corp.	EMC012645B	980216	2018/3/31	2019/3/30
Pre Amplifier	EMC Instruments Corp.	EMC184045B	980135	2017/10/27	2018/10/26
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	2018/4/23	2019/4/22
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	30255/4PEA	2018/4/23	2019/4/22
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2018/4/23	2019/4/22
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2651/2	2018/6/5	2019/6/4
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2018/6/5	2019/6/4
Universal Digital Radio Communication Tester	R&S	CMU 200	119988	2018/2/22	2019/2/21
Wideband Radio Communication Tester	R&S	CMW 500	152303	2018/2/21	2019/2/20
Radio Communication Analyzer	Anritsu	MT8820C	6201465315	2017/12/10	2018/12/9
Controller	MF	MF-7802	N.C.R.	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 A	SAC-A	2018/1/12	2019/1/11
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

SGS Taiwan LTD. Electronics & Communication Laboratory
 No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
 Measurement Uncertainty of Radiated Emission
 Expanded uncertainty (k=2) of radiated emission measurement is 5.05 dB. (1-6GHz)
 Expanded uncertainty (k=2) of radiated emission measurement is 5.07 dB. (6-18GHz)
 Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.19 dB. (18-26GHz)
 Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.14 dB. (26-40GHz)
 Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.18 dB.(1-6GHz)
 Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.48 dB.(6-18GHz)
 Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is ---- dB.(18-26GHz)
 Theory values uncertainty Ucispr 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 : 24 degree C

Humidity : 66 %RH

Atmospheric Pressure : 996 mBar

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

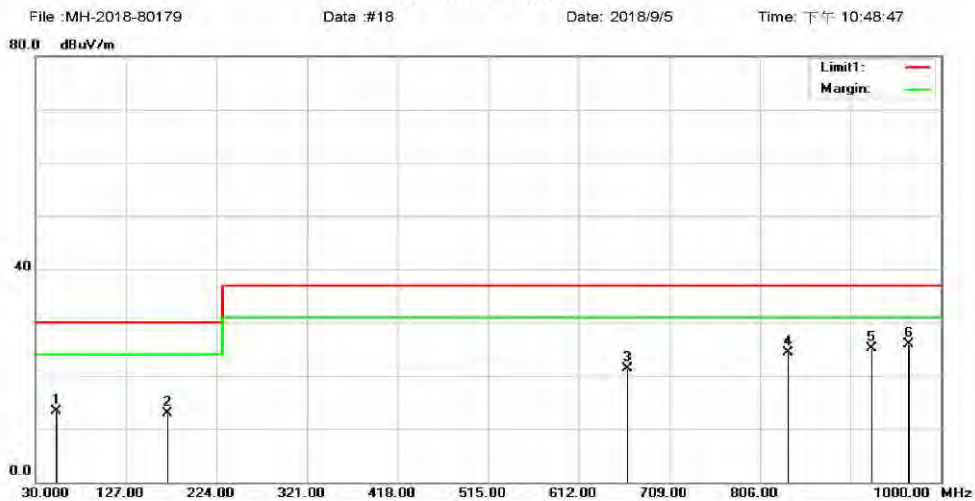
Config_1_H

Site: SGS 10m Chamber
 Limit: CISPR22 Class B 10M Radiation
 Mode: Config_1
 Note: LTE B17

Polarization: **Horizontal**
 Power: AC 120V/60Hz
 Distance: 10m

Temperature: 24 °C
 Humidity: 66 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		52.3100	24.52	-11.31	13.21	30.00	-16.79	QP	
2		171.6200	24.20	-11.39	12.81	30.00	-17.19	QP	
3		664.3800	23.74	-2.53	21.21	37.00	-15.79	QP	
4		836.0700	23.97	0.33	24.30	37.00	-12.70	QP	
5		925.3100	23.77	1.40	25.17	37.00	-11.83	QP	
6 *		965.0800	24.14	1.85	25.99	37.00	-11.01	QP	

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

File :MH-2018-80179\Data :#18

Page: 1

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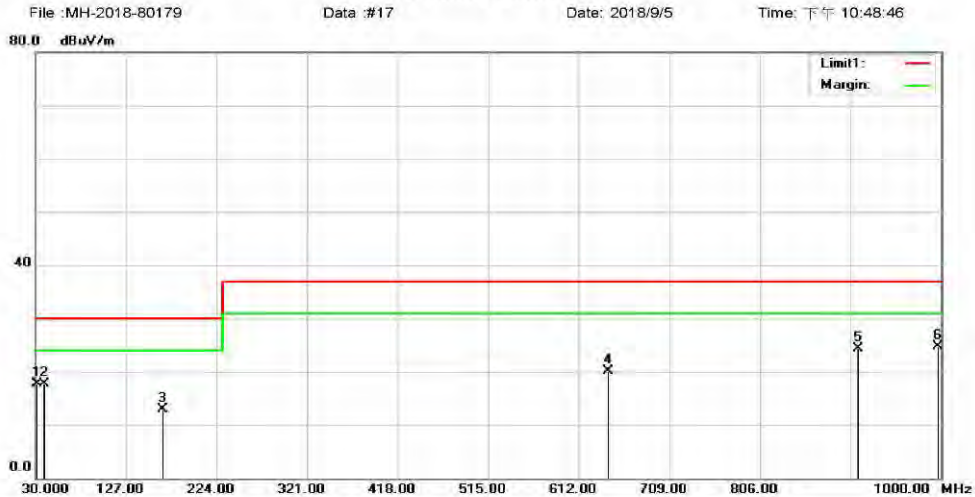
Config_1_V

Site: SGS 10m Chamber
 Limit: CISPR22 Class B 10M Radiation
 Mode: Config_1
 Note: LTE B17

Polarization: **Vertical**
 Power: AC 120V/60Hz
 Distance: 10m

Temperature: 24 °C
 Humidity: 66 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		31.9400	29.99	-12.24	17.75	30.00	-12.25	QP	
2	*	39.7000	29.32	-11.53	17.79	30.00	-12.21	QP	
3		165.8000	24.17	-11.32	12.85	30.00	-17.15	QP	
4		644.0100	23.08	-2.95	20.13	37.00	-16.87	QP	
5		910.7600	23.16	1.18	24.34	37.00	-12.66	QP	
6		996.1200	23.00	1.68	24.68	37.00	-12.32	QP	

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

File: MH-2018-80179\Data: #17

Page: 1

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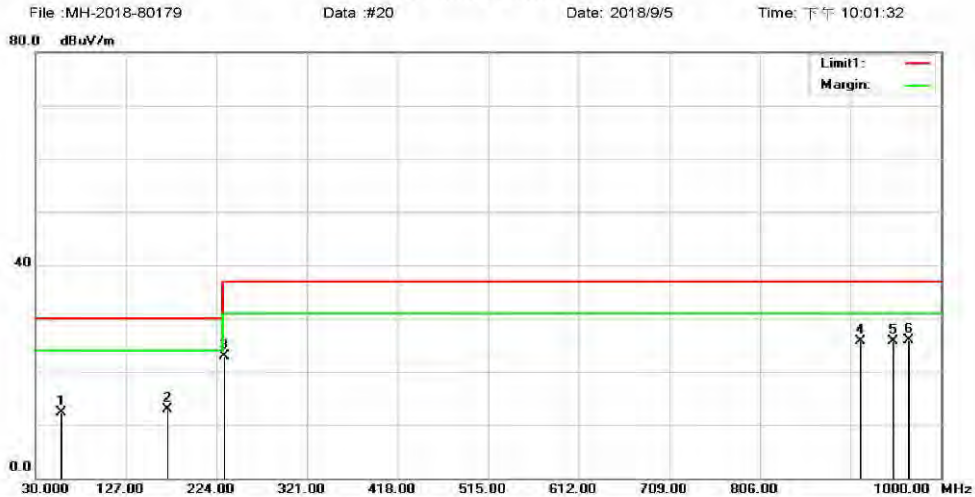
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Config_2_H

Site: SGS 10m Chamber Polarization: **Horizontal** Temperature: 24 °C
 Limit: CISPR22 Class B 10M Radiation Power: From System Humidity: 66 %
 Mode: Config_2 Distance: 10m
 Note: Date Read

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		58.1300	24.19	-11.83	12.36	30.00	-17.64	QP	
2		171.6200	24.24	-11.39	12.85	30.00	-17.15	QP	
3		232.3700	36.60	-13.62	22.98	37.00	-14.02	QP	
4		913.6700	24.58	1.13	25.71	37.00	-11.29	QP	
5		948.5900	23.74	1.97	25.71	37.00	-11.29	QP	
6	*	965.0800	24.15	1.85	26.00	37.00	-11.00	QP	

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

File :MH-2018-80179\Data :#20

Page: 1

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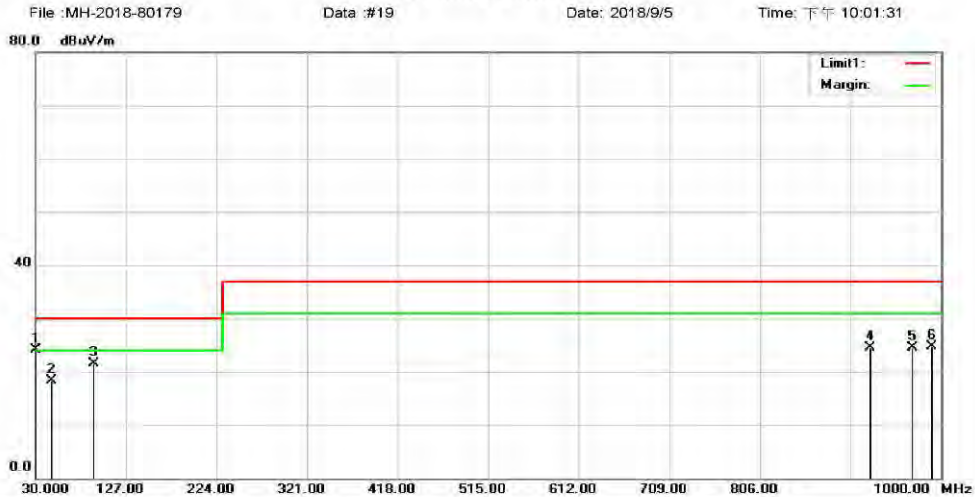
Config_2_V

Site: SGS 10m Chamber
 Limit: CISPR22 Class B 10M Radiation
 Mode: Config_2
 Note: Date Read

Polarization: **Vertical**
 Power: From System
 Distance: 10m

Temperature: 24 °C
 Humidity: 66 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	30.0000	36.60	-12.40	24.20	30.00	-5.80	QP	
2		46.9400	29.13	-10.82	18.31	30.00	-11.69	QP	
3		91.3100	38.55	-17.04	21.51	30.00	-8.49	QP	
4		924.3400	23.17	1.30	24.47	37.00	-12.53	QP	
5		968.9600	22.98	1.58	24.56	37.00	-12.44	QP	
6		990.3000	23.12	1.66	24.78	37.00	-12.22	QP	

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

File :MH-2018-80179\Data :#19

Page: 1

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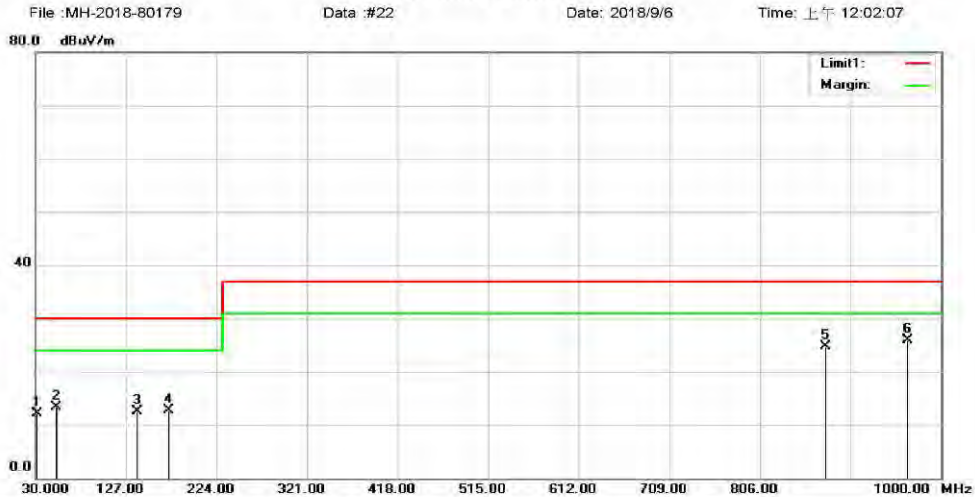
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Config_3_H

Site: SGS 10m Chamber	Polarization: Horizontal	Temperature: 24 °C
Limit: CISPR22 Class B 10M Radiation	Power: AC 120V/60Hz	Humidity: 66 %
Mode: Config_3	Distance: 10m	
Note: REC (Back)		

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		31.9400	24.54	-12.39	12.15	30.00	-17.85	QP	
2		52.3100	24.58	-11.31	13.27	30.00	-16.73	QP	
3		138.6400	24.38	-11.93	12.45	30.00	-17.55	QP	
4		172.5900	24.31	-11.51	12.80	30.00	-17.20	QP	
5		875.8400	23.98	0.66	24.64	37.00	-12.36	QP	
6	*	964.1100	24.15	1.85	26.00	37.00	-11.00	QP	

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

File :MH-2018-80179\Data :#22

Page: 1

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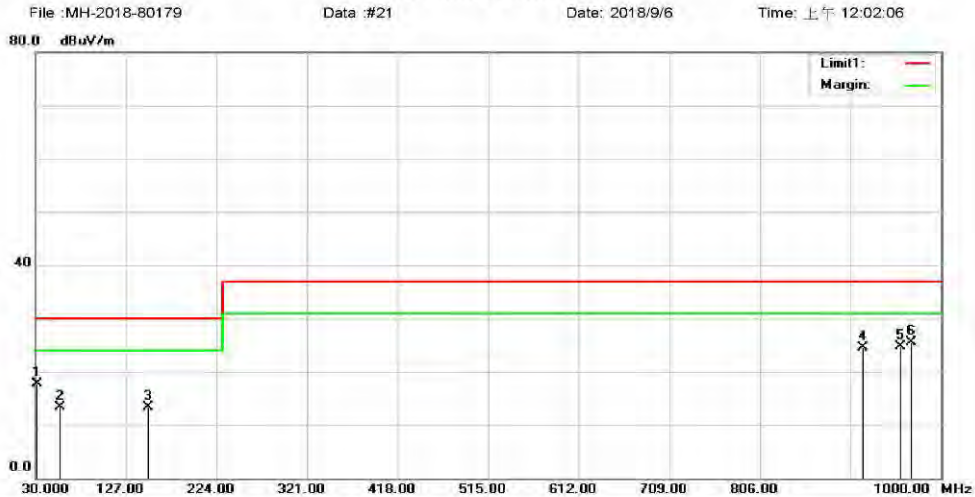
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Config_3_V

Site: SGS 10m Chamber	Polarization: Vertical	Temperature: 24 °C
Limit: CISPR22 Class B 10M Radiation	Power: AC 120V/60Hz	Humidity: 66 %
Mode: Config_3	Distance: 10m	
Note: REC (Back)		

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		31.9400	30.02	-12.24	17.78	30.00	-12.22	QP	
2		56.1900	24.53	-11.19	13.34	30.00	-16.66	QP	
3		150.2800	24.06	-10.70	13.36	30.00	-16.64	QP	
4		916.5800	23.28	1.24	24.52	37.00	-12.48	QP	
5		956.3500	23.13	1.52	24.65	37.00	-12.35	QP	
6 *		967.9900	23.99	1.58	25.57	37.00	-11.43	QP	

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

File :MH-2018-80179\Data :#21

Page: 1

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Above 1GHz

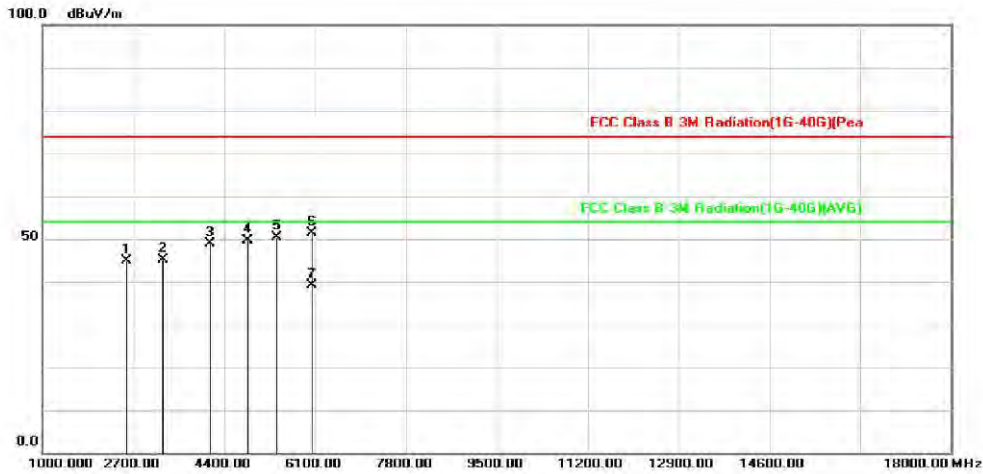
1GMz-18GMz

Config_1_H

Site: SGS 966 Chamber A Polarization: **Horizontal** Temperature: 21 °C
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 71 %
 Mode: Config 1 Distance:
 Note: LTE B17

Radiated Emission

File :80179 Data :#12 Date: 2018/8/31 Time: 下午 09:53:36



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2581.000	56.18	-11.35	44.83	74.00	-29.17	peak	
2		3261.000	56.56	-11.33	45.23	74.00	-28.77	peak	
3		4145.000	56.93	-8.13	48.80	74.00	-25.20	peak	
4		4842.000	56.79	-7.28	49.51	74.00	-24.49	peak	
5		5386.000	56.76	-6.33	50.43	74.00	-23.57	peak	
6		6049.000	55.53	-4.24	51.29	74.00	-22.71	peak	
7	*	6049.000	43.40	-4.24	39.16	54.00	-14.84	AVG	

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

File :80179\Data :#12

Page: 1

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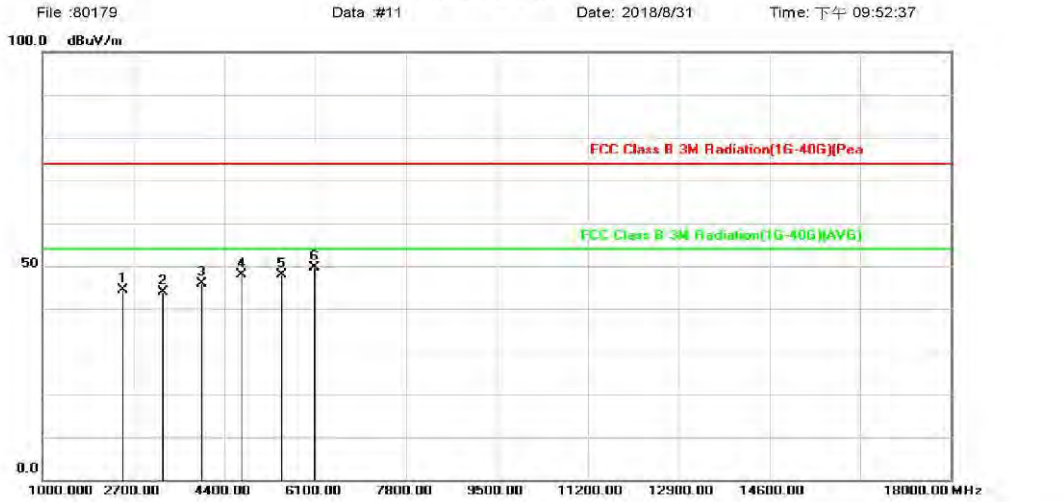
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Config_1_V

Site: SGS 966 Chamber A	Polarization: Vertical	Temperature: 21 °C
Limit: FCC Class B 3M Radiation(1G-40G)(Pea	Power: AC 120V/60Hz	Humidity: 71 %
Mode: Config 1	Distance:	
Note: LTE B17		

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2513.000	55.59	-11.22	44.37	74.00	-29.63	peak	
2		3261.000	55.14	-11.33	43.81	74.00	-30.19	peak	
3		3975.000	54.42	-8.42	46.00	74.00	-28.00	peak	
4		4723.000	55.29	-7.44	47.85	74.00	-26.15	peak	
5		5471.000	54.09	-6.16	47.93	74.00	-26.07	peak	
6 *		6083.000	53.62	-4.01	49.61	74.00	-24.39	peak	

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

File :80179\Data :#11

Page: 1

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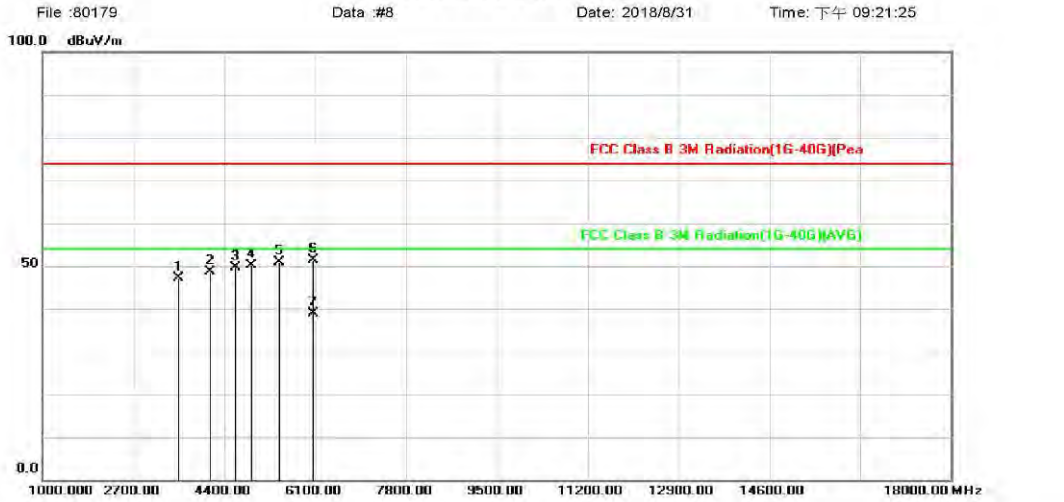
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Config 2 H

Site: SGS 966 Chamber A Polarization: **Horizontal** Temperature: 21 °C
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 71 %
 Mode: Config 2 Distance:
 Note: Date Read (SD card)

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		3550.000	57.50	-10.37	47.13	74.00	-26.87	peak	
2		4128.000	56.77	-8.14	48.63	74.00	-25.37	peak	
3		4621.000	57.16	-7.57	49.59	74.00	-24.41	peak	
4		4910.000	57.22	-7.20	50.02	74.00	-23.98	peak	
5		5437.000	57.02	-6.23	50.79	74.00	-23.21	peak	
6		6066.000	55.40	-4.11	51.29	74.00	-22.71	peak	
7 *		6066.000	42.94	-4.11	38.83	54.00	-15.17	AVG	

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

File :80179\Data :#8

Page: 1

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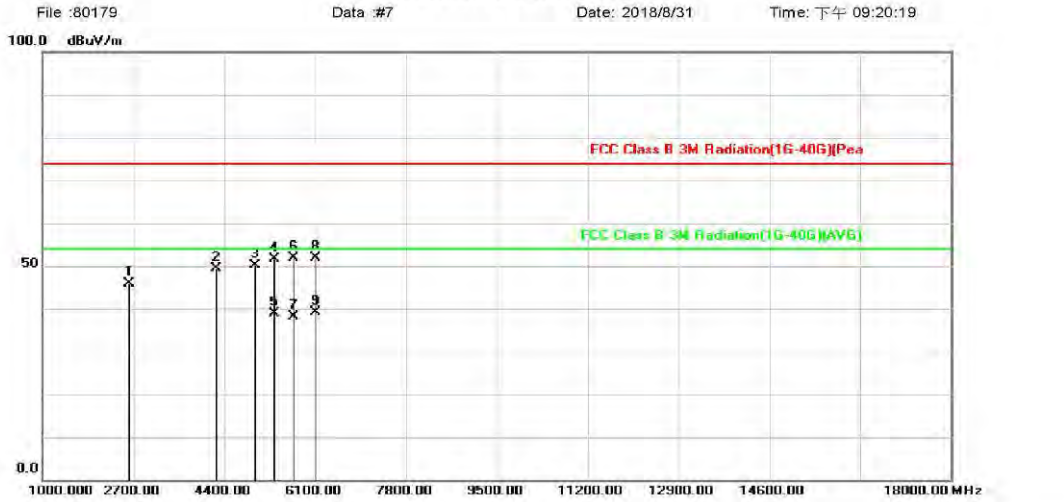
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Config 2_V

Site: SGS 966 Chamber A Polarization: **Vertical** Temperature: 21 °C
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 71 %
 Mode: Config 2 Distance:
 Note: Date Read (SD card)

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2615.000	57.39	-11.41	45.98	74.00	-28.02	peak	
2		4247.000	57.42	-8.00	49.42	74.00	-24.58	peak	
3		4978.000	57.29	-7.12	50.17	74.00	-23.83	peak	
4		5335.000	58.14	-6.43	51.71	74.00	-22.29	peak	
5		5335.000	45.36	-6.43	38.93	54.00	-15.07	AVG	
6		5709.000	57.44	-5.48	51.96	74.00	-22.04	peak	
7		5709.000	43.63	-5.48	38.15	54.00	-15.85	AVG	
8		6100.000	55.88	-3.88	52.00	74.00	-22.00	peak	
9 *		6100.000	43.10	-3.88	39.22	54.00	-14.78	AVG	

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

File :80179\Data #7

Page: 1

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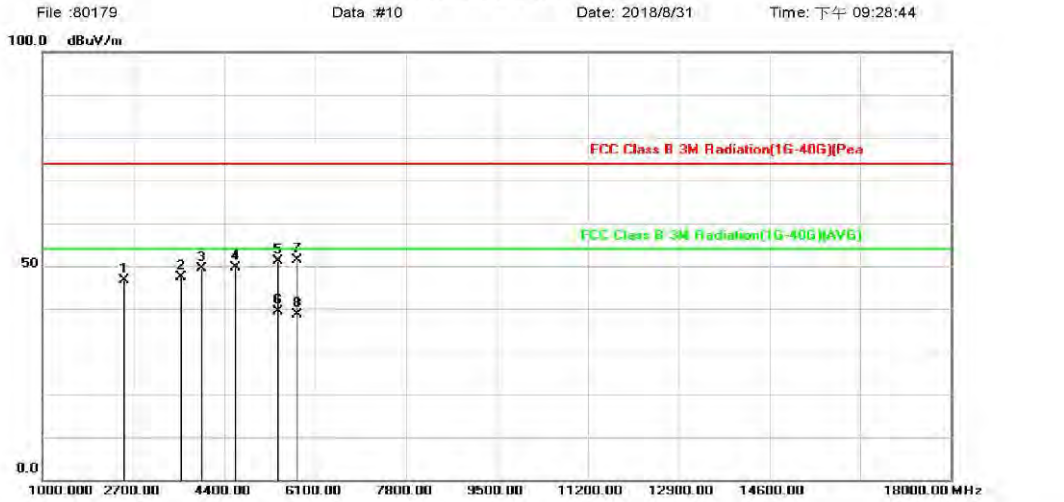
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Config_3_H

Site: SGS 966 Chamber A Polarization: **Horizontal** Temperature: 21 °C
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 71 %
 Mode: Config 3 Distance:
 Note: REC Mode(Back)

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2530.000	57.80	-11.25	46.55	74.00	-27.45	peak	
2		3601.000	57.57	-10.14	47.43	74.00	-26.57	peak	
3		3975.000	57.68	-8.42	49.26	74.00	-24.74	peak	
4		4621.000	57.21	-7.57	49.64	74.00	-24.36	peak	
5		5403.000	57.37	-6.30	51.07	74.00	-22.93	peak	
6 *		5403.000	45.62	-6.30	39.32	54.00	-14.68	AVG	
7		5777.000	56.69	-5.26	51.43	74.00	-22.57	peak	
8		5777.000	43.90	-5.26	38.64	54.00	-15.36	AVG	

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

File :80179\Data :#10

Page: 1

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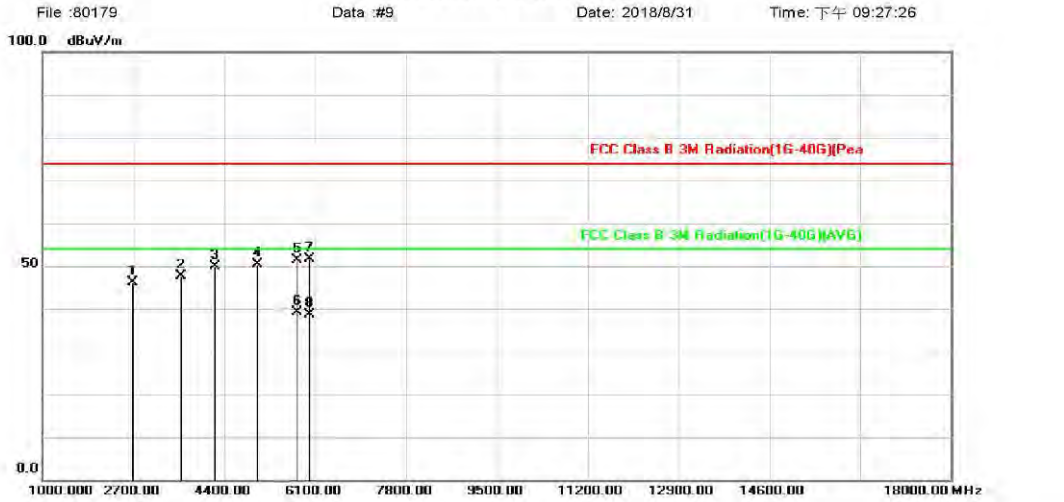
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Config_3_V

Site: SGS 966 Chamber A Polarization: **Vertical** Temperature: 21 °C
 Limit: FCC Class B 3M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 71 %
 Mode: Config 3 Distance:
 Note: REC Mode(Back)

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2683.000	57.65	-11.53	46.12	74.00	-27.88	peak	
2		3584.000	57.78	-10.22	47.56	74.00	-26.44	peak	
3		4230.000	57.82	-8.02	49.80	74.00	-24.20	peak	
4		5012.000	57.43	-7.08	50.35	74.00	-23.65	peak	
5		5777.000	56.59	-5.26	51.33	74.00	-22.67	peak	
6 *		5777.000	44.40	-5.26	39.14	54.00	-14.86	AVG	
7		5998.000	56.19	-4.60	51.59	74.00	-22.41	peak	
8		5998.000	43.29	-4.60	38.69	54.00	-15.31	AVG	

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

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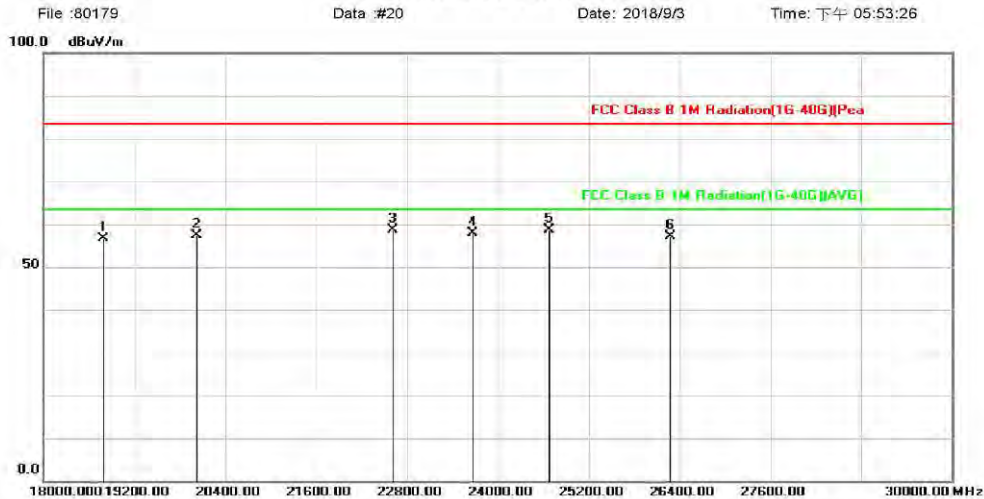
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18GMz-30GMz

Config_1_H

Site: SGS 966 Chamber A	Polarization: Horizontal	Temperature: 21 °C
Limit: FCC Class B 1M Radiation(1G-40G)(Pea)	Power: AC 120V/60Hz	Humidity: 71 %
Mode: Config 1	Distance:	
Note: LTE B17		

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		18792.000	55.41	1.26	56.67	83.50	-26.83	peak	
2		20028.000	54.66	2.70	57.36	83.50	-26.14	peak	
3		22608.000	53.17	5.42	58.59	83.50	-24.91	peak	
4		23676.000	51.96	5.89	57.85	83.50	-25.65	peak	
5	*	24672.000	52.49	6.23	58.72	83.50	-24.78	peak	
6		26280.000	51.15	5.94	57.09	83.50	-26.41	peak	

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

File :80179\Data :#20

Page: 1

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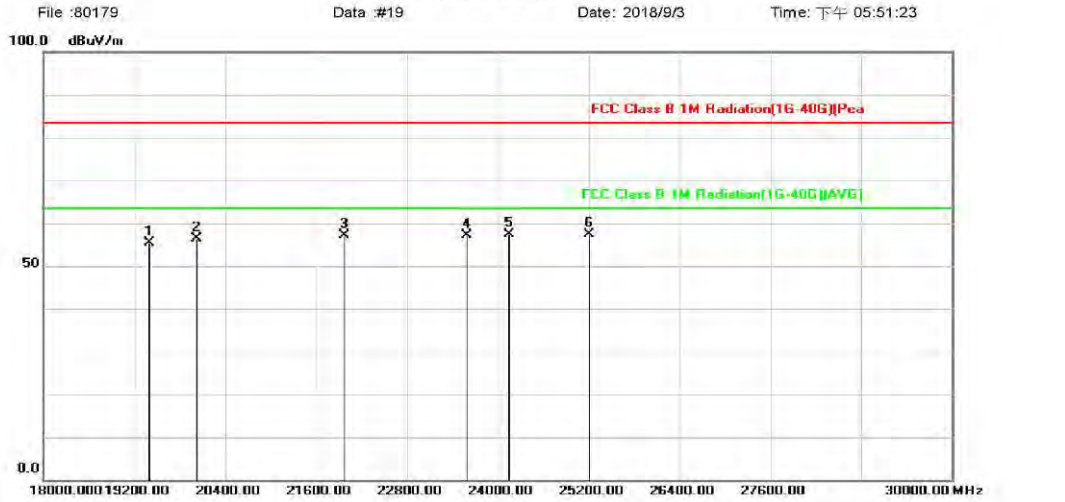
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Config_1_V

Site: SGS 966 Chamber A	Polarization: Vertical	Temperature: 21 °C
Limit: FCC Class B 1M Radiation(1G-40G)(Pea	Power: AC 120V/60Hz	Humidity: 71 %
Mode: Config 1	Distance:	
Note: LTE B17		

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		19404.000	53.72	1.62	55.34	83.50	-28.16	peak	
2		20016.000	53.77	2.70	56.47	83.50	-27.03	peak	
3		21972.000	52.23	4.95	57.18	83.50	-26.32	peak	
4		23592.000	51.16	5.90	57.06	83.50	-26.44	peak	
5 *		24144.000	51.45	5.99	57.44	83.50	-26.06	peak	
6		25200.000	51.45	5.86	57.31	83.50	-26.19	peak	

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

File :80179\Data :#19

Page: 1

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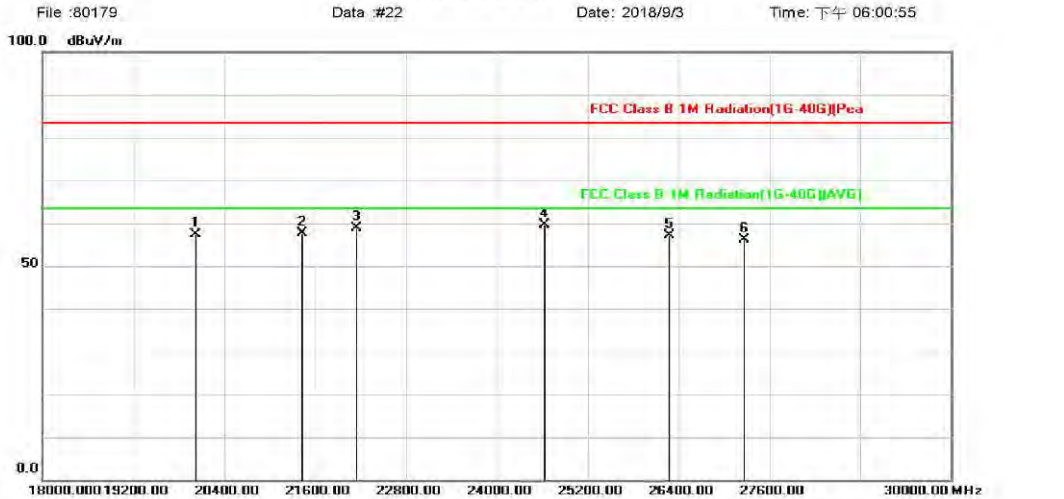
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Config 2 H

Site: SGS 966 Chamber A Polarization: **Horizontal** Temperature: 21 °C
 Limit: FCC Class B 1M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 71 %
 Mode: Config 2 Distance:
 Note: Date Read (SD card)

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		20028.000	54.67	2.70	57.37	83.50	-26.13	peak	
2		21432.000	53.76	3.98	57.74	83.50	-25.76	peak	
3		22152.000	53.79	5.12	58.91	83.50	-24.59	peak	
4	*	24636.000	53.33	6.23	59.56	83.50	-23.94	peak	
5		26280.000	51.14	5.94	57.08	83.50	-26.42	peak	
6		27264.000	49.79	6.26	56.05	83.50	-27.45	peak	

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

File :80179\Data :#22

Page: 1

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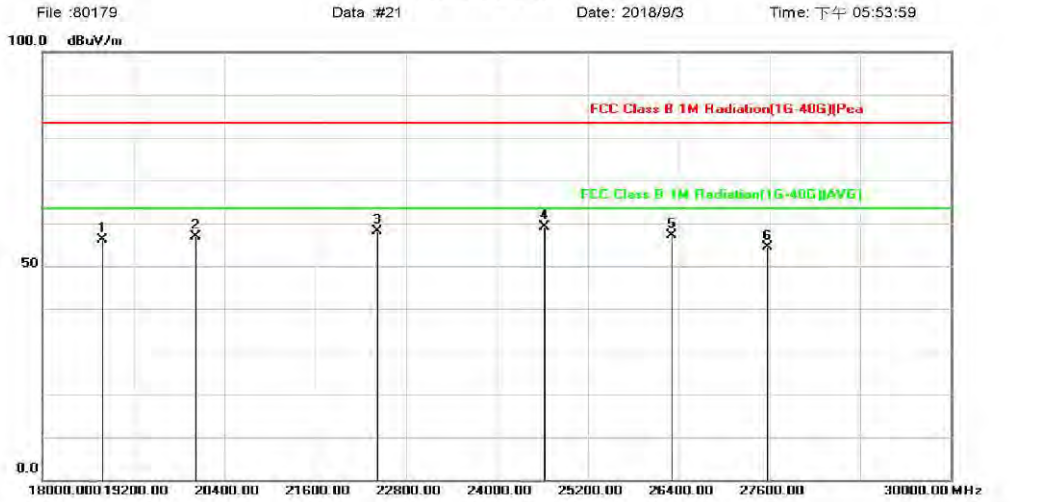
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Config_2_V

Site: SGS 966 Chamber A Polarization: **Vertical** Temperature: 21 °C
 Limit: FCC Class B 1M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 71 %
 Mode: Config 2 Distance:
 Note: Date Read (SD card)

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		18792.000	54.94	1.26	56.20	83.50	-27.30	peak	
2		20016.000	54.21	2.70	56.91	83.50	-26.59	peak	
3		22428.000	52.79	5.34	58.13	83.50	-25.37	peak	
4	*	24636.000	52.87	6.23	59.10	83.50	-24.40	peak	
5		26316.000	51.09	5.98	57.07	83.50	-26.43	peak	
6		27576.000	47.93	6.46	54.39	83.50	-29.11	peak	

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

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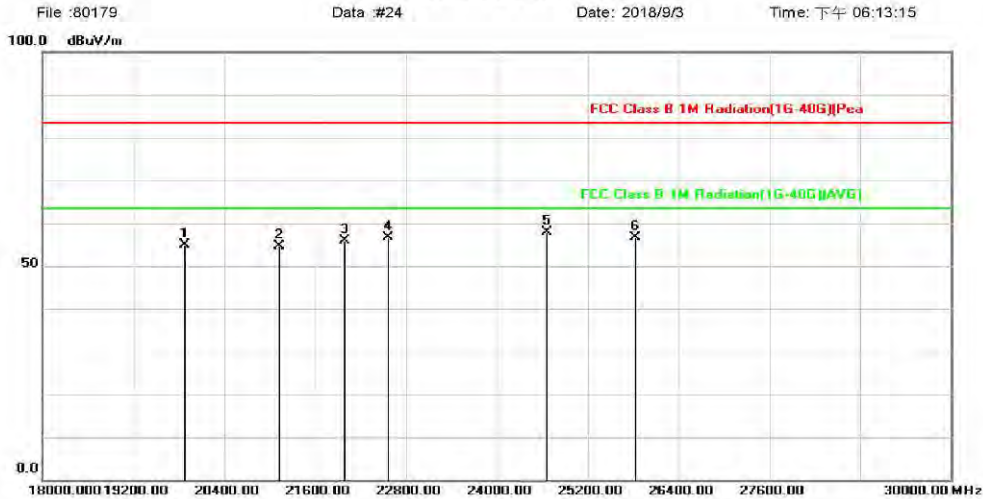
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Config_3_H

Site: SGS 966 Chamber A	Polarization: Horizontal	Temperature: 21 °C
Limit: FCC Class B 1M Radiation(1G-40G)(Pea	Power: AC 120V/60Hz	Humidity: 71 %
Mode: Config 3	Distance:	
Note: REC Mode(Back)		

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		19872.000	52.55	2.45	55.00	83.50	-28.50	peak	
2		21120.000	51.12	3.42	54.54	83.50	-28.96	peak	
3		21996.000	50.98	5.00	55.98	83.50	-27.52	peak	
4		22572.000	51.18	5.41	56.59	83.50	-26.91	peak	
5 *		24660.000	51.57	6.24	57.81	83.50	-25.69	peak	
6		25824.000	51.24	5.46	56.70	83.50	-26.80	peak	

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

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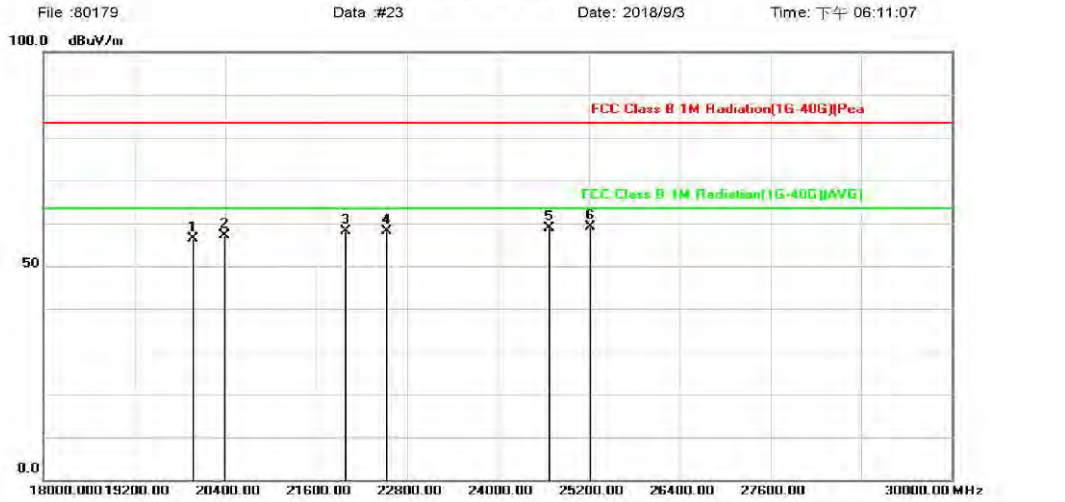
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Config_3_V

Site: SGS 966 Chamber A Polarization: **Vertical** Temperature: 21 °C
 Limit: FCC Class B 1M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 71 %
 Mode: Config 3 Distance:
 Note: REC Mode(Back)

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		19980.000	53.62	2.66	56.28	83.50	-27.22	peak	
2		20388.000	54.39	2.70	57.09	83.50	-26.41	peak	
3		21996.000	53.10	5.00	58.10	83.50	-25.40	peak	
4		22536.000	52.75	5.41	58.16	83.50	-25.34	peak	
5		24672.000	52.62	6.23	58.85	83.50	-24.65	peak	
6 *		25224.000	53.40	5.81	59.21	83.50	-24.29	peak	

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

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