

FCC ID: APYHRO00264 Report No.: MH/2018/A0142

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# **FCC CERTIFICATION REPORT**

Test Report No. : MH/2018/A0142

**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: Oct. 16, 2018

Date of Test : Oct. 16 ~ Nov. 01, 2018

Date of Issue : Nov. 07, 2018

Test Result: **PASS** 

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

#### Remarks:

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

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

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.

Lowka Chen

Lowka Chen (Engineer)

Today Cheng Date Nov. 07, 2018 Tested By:

Date Approved By Nov. 07, 2018

Eddy Cheng (Asst. Supervisor)





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# **Revision History**

Report Number	Revision	Description	Issue Date
MH/2018/A0142	Rev.00	Initial creation of document	Nov. 07, 2018

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# 1. General Information

## 1.1 Applicant & Manufacturer Information

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Address of Applicant : 2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-

shi, Hiroshima 739-0192, Japan

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 : 5725 MHz

Battery : 3.85V, 2500mAh, 9.63Wh

Worst case : CE / Below RE worst case : Config 2

Above RE worst case: Config 1

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1 <sup>ST</sup> Source (eMCP memory, UFS memory)	Worst case
2 <sup>nd</sup> Source (eMCP memory, UFS memory)	V

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Accessories List: AC Charger : Salom/XN-2QC25 Data Cable : Luxshare- ICT/L6KU2007-CS-H PHF : Sony / MDR-EX15AP	Config 1	Config 2	Config 3	
Applicable standard		FCC 15B		
Accessories	EUT + AC Adaptor +USB Cable +PHF	EUI LUSB Cable	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, connect to Adapter with USB cable and turn it on.
- 2. Let EUT connect to the headset and execute the 1k source.
- 3. NB & EUT link AP-WiFi (5G/2.4G), NB ping EUT IP.
- 4. BT Link BT Speaker and turn on NFC function.
- 5. Set up base station, set channel (GSM850/1900, WCDMA B5, LTE B5/B12/B17) and transmitting data.
- 6. Set up GPS simulator and turn on GPS test app.
- 7. Start the test.

#### Config 2

- 1. Let EUT plug in SD Card & SIM Card, connect to NB\_1 with USB cable.
- 2. Let EUT connect to the headset and execute the 1k source.
- 3. NB\_2 & EUT link AP-WiFi Worst (5G/2.4G), NB ping EUT IP.
- 4. BT Link BT Speaker and turn on NFC function.
- 5. Set up GPS simulator and turn on GPS test app.
- 6. Execute Data Read/Write in NB 1 with EUT.
- 7. Start the test.

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#### Confia 3

- 1. Let EUT plug in SD Card & SIM Card, connect to Adapter with USB cable and turn it on.
- 2. Let EUT connect to the headset and execute the 1k source.
- 3. NB\_2 & EUT link AP-WiFi Worst (5G/2.4G), NB ping EUT IP.
- 4. BT Link BT Speaker and turn on NFC function.
- 5. Set up GPS simulator and turn on GPS test app.
- 6. Turn on the CAMERA function, test the front and rear lens recording and play
- 7. Start the test.

## 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
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
Mouse	Logitech	M-U0026	1738HS05FH98
Notebook (RE, HRE)	DELL	P56F	59WSJ72
Notebook (CE)	DELL	Latitude E5430	COVZYW1
Earphone	SONY	MDR-EX15AP	N/A
Adapter	Salom	XN-2QC25	N/A

Support Equipment Used in Tested Cable

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

#### 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
Earphone Cable	N/A	1.25m	Non-shielding

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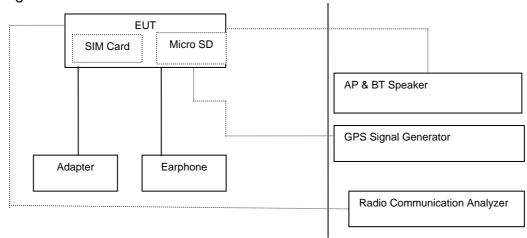


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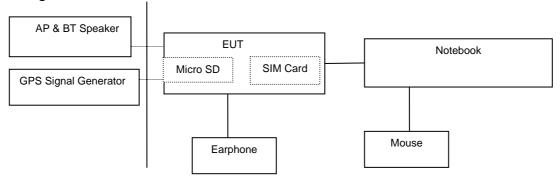


## 1.8 Test Set-Up Configuration

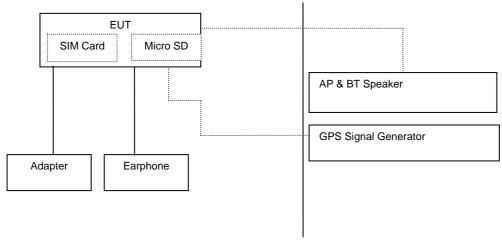
## Config 1



## Config 2



#### Config 3



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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

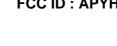
#### 1.11 Summary of Results

Highest Emission					
Standard Test Type Result Phase/Pol. Frequency(MHz) Margin(dB)					
FCC Part 15 Subpart B Class B	Conducted Emission	PASS	Line	0.3780	-9.49 (AVG)
			Neutral	0.3820	-9.36 (AVG)
Class D	Radiated Emission	PASS	Ver.	167.7400	-6.37 (QP)

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#### 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 - 1081000 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	Class A (dBuV)		Class B	(dBuV)
(MHz)	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note: (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

2010010: 1 0:::	2 Detector Fariotics Fragador Frank			
FREQUENCY	Class A (at 10m)	Class B (at 3m)		
(MHz)	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	Class A (dB	uV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
(MHz)	Peak	Average	Peak	Average	
Above 1000	79.3	59.3	73.9	53.9	

#### **CISPR 22 Limit:**

Detector Function : Quasi – Peak

FREQUENCY	Class A (at 10m)	Class B (at 10m)
(MHz)	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	Class A (dB	suV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
(GHz)	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	SGS Conducted_Emission HWAYA Conducted Room No.B_EMC										
EQUIPMENT TYPE	Manufacturer	Model Number	Serial	Calibration	Calibration						
EQUIPMENT THE	Manufacturer	Model Number	Number	Date	Due						
EMI Test Receiver	R&S	ESCI 3	100950	2017/12/12	2018/12/11						
Coaxial Cable	EMC Instruments	EMC5D-BM-BM-	1401004	2018/5/25	2019/5/24						
Coaxiai Cable	Corp.	3000	1401004	2016/5/25	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.						

SGS Taiwan LTD. Electronics & Communication Laboratory

No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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: 23 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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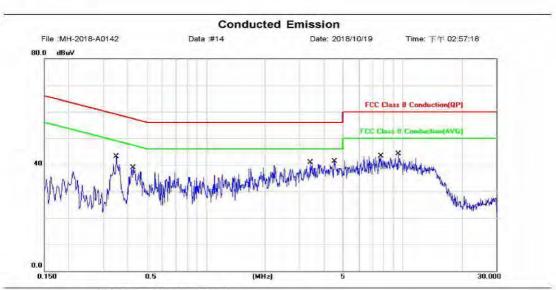
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#### 2.4.4 Measurement Data:

#### Config\_1\_L

23 °C Temperature: Site : Conduction Room Phase: 11 AC 120V/60Hz Humidity: 64 % Limit: FCC Class B Conduction(QP) Power:

Mode: config 1 Note: LTE B05



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3500	16.90	19.98	36.88	58.96	-22.08	QP	
2		0.3500	8.10	19.98	28.08	48.96	-20.88	AVG	
3		0.4260	18.80	20.11	38.91	57.33	-18.42	QP	
4	*	0.4260	10.30	20.11	30.41	47.33	-16.92	AVG	
5		3.3980	13.40	20.29	33.69	56.00	-22.31	QP	
6		3.3980	4.90	20.29	25.19	46.00	-20.81	AVG	
7		4.5060	14.80	20.09	34.89	56.00	-21.11	QP	
8		4.5060	6.70	20.09	26.79	46.00	-19.21	AVG	
9		7.7340	17.40	19.97	37.37	60.00	-22.63	QP	
10		7.7340	8.30	19.97	28.27	50.00	-21.73	AVG	
11		9.5140	17.80	19.95	37.75	60.00	-22.25	QP	
12		9.5140	8.20	19.95	28.15	50.00	-21.85	AVG	

<sup>\*:</sup> Maximum data x:Over limit

File :MH-2018-A0142\Data :#14

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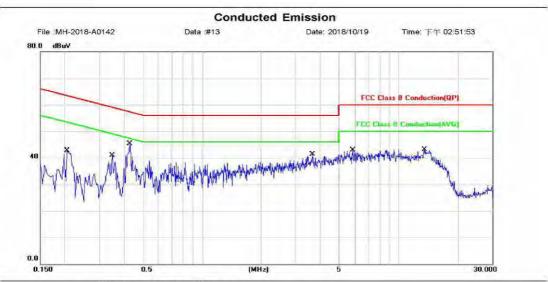
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## Config\_1\_N

Conduction Room Temperature: 23 0 Site : Phase: Limit: FCC Class B Conduction(QP) AC 120V/60Hz Humidity: 64 %

Mode: config 1 Note: LTE B05



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2060	20.50	19.73	40.23	63.37	-23.14	QP	
2		0.2060	8.30	19.73	28.03	53.37	-25.34	AVG	
3		0.3500	17.70	19.97	37.67	58.96	-21.29	QP	
4		0.3500	7.80	19.97	27.77	48.96	-21,19	AVG	
5		0.4300	21.60	20.10	41.70	57.25	-15.55	QP	
6	*	0.4300	12.30	20.10	32.40	47.25	-14.85	AVG	
7		3.6420	13.60	20.23	33.83	56.00	-22.17	QP	
8		3.6420	5.50	20.23	25.73	46.00	-20.27	AVG	
9		5.8620	15.30	19.96	35.26	60.00	-24.74	QP	
10		5.8620	6.90	19.96	26.86	50.00	-23.14	AVG	
11		13.6020	15.50	19.98	35.48	60.00	-24.52	QP	
12		13.6020	4.80	19.98	24.78	50.00	-25.22	AVG	

<sup>\*:</sup> Maximum data x:Over limit !:over margin

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## Config\_2\_L

Conduction Room Temperature: 23 0 Site : Phase: L1 Limit: FCC Class B Conduction(QP)

Mode: config 2 Note: data write AC 120V/60Hz Humidity: 64 %

Conducted Emission File: MH-2018-A0142 Data :#15 Date: 2018/10/19 Time: 下午 06:20:02 80.0 dBuV FCC Class B Con

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	27.40	19.65	47.05	66.00	-18.95	QP	
2		0.1500	13.30	19.65	32.95	56.00	-23.05	AVG	
3		0.3780	21.80	20.03	41.83	58.32	-16.49	QP	
4	*	0.3780	18.80	20.03	38.83	48.32	-9.49	AVG	
5		0.5100	13.77	20.22	33.99	56.00	-22.01	QP	
6		0.5100	3.90	20.22	24.12	46.00	-21.88	AVG	
7		0.9860	9.60	19.85	29.45	56.00	-26.55	QP	
8		0.9860	3.66	19.85	23.51	46.00	-22.49	AVG	
9		7,4980	17.60	19.97	37.57	60.00	-22.43	QP	
10		7.4980	11.26	19.97	31.23	50.00	-18.77	AVG	
11		21.6420	21.00	20.07	41.07	60.00	-18.93	QP	
12		21.6420	12.80	20.07	32.87	50.00	-17.13	AVG	

<sup>\*:</sup> Maximum data x:Over limit !:over margin

File :MH-2018-A0142\Data :#15

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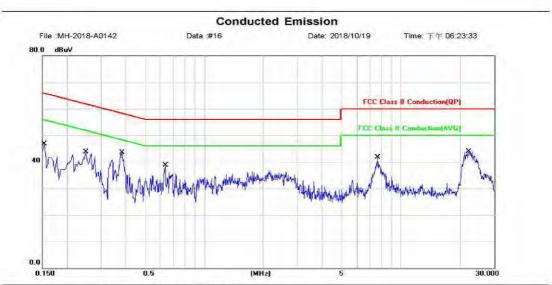
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## Config\_2\_N

Temperature: 23 0 Site : Conduction Room Phase: Limit: FCC Class B Conduction(QP) AC 120V/60Hz Humidity: 64 %

Mode: config 2 Note: data write



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1540	25.00	19.65	44.65	65.78	-21.13	QP	
2		0.1540	11.90	19.65	31.55	55.78	-24.23	AVG	
3		0.2500	25.10	19.80	44.90	61.76	-16.86	QP	
4		0.2500	18.20	19.80	38.00	51.76	-13.76	AVG	
5		0.3820	23.60	20.02	43.62	58.24	-14.62	QP	
6	*	0.3820	18.86	20.02	38.88	48.24	-9.36	AVG	
7		0.6340	15.55	20.11	35.66	56.00	-20.34	QP	
8		0.6340	7.30	20.11	27.41	46.00	-18.59	AVG	
9		7.6580	15.61	19.96	35.57	60.00	-24.43	QP	
10		7.6580	9.73	19.96	29.69	50.00	-20.31	AVG	
11		22.2140	15.90	20.11	36.01	60.00	-23.99	QP	
12		22.2140	7.53	20.11	27.64	50.00	-22.36	AVG	

<sup>\*:</sup> Maximum data x:Over limit !:over margin

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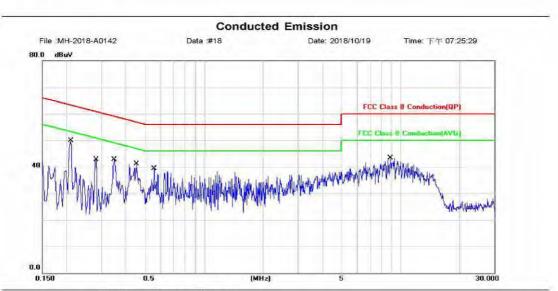


## Config\_3\_L

Temperature: 23 ℃ Site : Conduction Room Phase: L1 AC 120V/60Hz Humidity: 64 %

Limit: FCC Class B Conduction(QP)

Mode: config 3 Note: Rec Mode(back)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2100	16.80	19.76	36.56	63.21	-26.65	QP	
2		0.2100	5.70	19.76	25.46	53.21	-27.75	AVG	
3		0.2820	13.20	19.88	33.08	60.76	-27.68	QP	
4		0.2820	4.60	19.88	24.48	50.76	-26.28	AVG	
5		0.3500	14.30	19.98	34.28	58.96	-24.68	QP	
6		0.3500	7.50	19.98	27.48	48.96	-21.48	AVG	
7		0.4540	15.00	20.15	35.15	56.80	-21.65	QP	
8	*	0.4540	9.30	20.15	29.45	46.80	-17.35	AVG	
9		0.5580	9.00	20.18	29.18	56.00	-26.82	QP	
10		0.5580	2.80	20.18	22.98	46.00	-23.02	AVG	
11		8.8940	16.60	19.96	36.56	60.00	-23.44	QP	
12		8.8940	7.20	19.96	27.16	50.00	-22.84	AVG	

<sup>\*:</sup> Maximum data x:Over limit !:over margin

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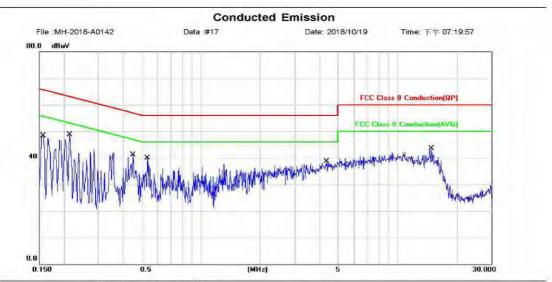
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## Config\_3\_N

Temperature: 23 ℃ Site : Conduction Room Phase: Limit: FCC Class B Conduction(QP) AC 120V/60Hz Humidity: 64 %

Mode: config 3 Note: Rec Mode(back)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	26.12	19.66	45.78	65.57	-19.79	QP	
2		0.1580	10.37	19.66	30.03	55.57	-25.54	AVG	
3	*	0.2140	24.93	19.74	44.67	63.05	-18.38	QP	
4		0.2140	10.33	19.74	30.07	53.05	-22.98	AVG	
5		0.4500	17.10	20.14	37.24	56.88	-19.64	QP	
6		0.4500	7.70	20.14	27.84	46.88	-19.04	AVG	
7		0.5340	12.20	20.19	32.39	56.00	-23,61	QP	
8		0.5340	3.10	20.19	23.29	46.00	-22.71	AVG	
9		4.3500	12.30	20.09	32.39	56.00	-23.61	QP	
10		4.3500	4.10	20.09	24.19	46.00	-21.81	AVG	
11		14,8700	15.17	20.00	35.17	60.00	-24.83	QP	
12		14.8700	4.46	20.00	24.46	50.00	-25.54	AVG	

<sup>\*:</sup> 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	Calibration	Calibration					
EQUIFIVIENT TIFE	Manuacturei	Woder Number	Number	Date	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	2018/9/18	2019/9/17					
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150919	2018/9/18	2019/9/17					
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150820	2018/9/18	2019/9/17					
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150918	2018/9/18	2019/9/17					
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150821	2018/9/18	2019/9/17					
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150822	2018/9/18	2019/9/17					
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 Ulab (K=2) of radiated emission is 4.09 dB. (30MHz ~ 1000MHz)

Theory values uncertainty Ucispr 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_Abo	ove_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	BBHA9120D28 5	2018/10/26	2019/10/25
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	<b>EMC Instruments</b>	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
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 B05 Polarization: Horizontal

Distance: 10m

Power: AC 120V/60Hz

Temperature: 24 °C

Humidity: 66 %

Radiated Emission
File :A0142 Data #8 Date: 2018/10/18 Time: 下年 10:20:13
80.0 dBuV/m

Limit1: Margin: Margin: 10:20:13

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		57.1600	26.99	-11.46	15.53	30.00	-14.47	QP	
2		148.3400	27.25	-11.03	16.22	30.00	-13.78	QP	
3		807.9400	23.75	0.96	24.71	37.00	-12.29	QP	
4		850.6200	24.35	1.51	25.86	37.00	-11.14	QP	
5		936.9500	23.02	3.02	26.04	37.00	-10.96	QP	
6	*	981.5700	23.61	2.92	26.53	37.00	-10.47	QP	

515.00

612.00

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

File :A0142\Data :#8

Page 1

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## Config\_1\_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

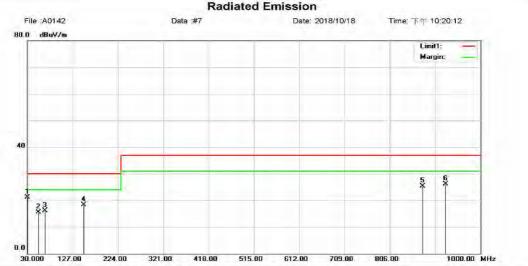
Mode: Config 1 Note: LTE B05 Polarization: Vertical

Power: AC 120V/60Hz

Distance: 10m

Temperature: 24 °C

Humidity: 66 %



No.	o. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	30.0000	33.25	-12.10	21.15	30.00	-8.85	QP	
2	4 10	53.2800	26.25	-10.83	15.42	30.00	-14.58	QP	
3		67.8300	28.93	-12.75	16.18	30,00	-13.82	QP	
4		151.2500	29.07	-10.70	18.37	30.00	-11.63	QP	
5	1.67	876.8100	24,56	0.77	25.33	37.00	-11.67	QP	
6	1.7	925.3100	24.33	1.86	26.19	37.00	-10.81	QP	

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

File :A0142\Data :#7

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## Config\_2\_H

Site SGS 10m Chamber

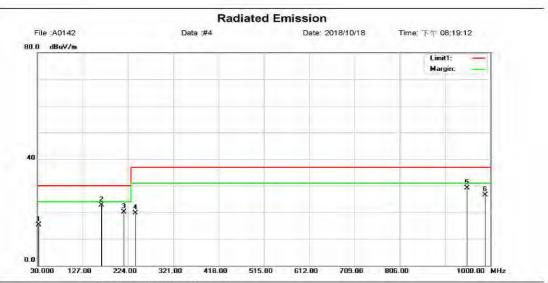
Limit: CISPR22 Class B 10M Radiation

Mode: Config 2 Note: Data Write Polarization: Horizontal Temperature:

24 °C Humidity: 66 %

Power: From System

Distance: 10m



No.	o. Mk.	Freq.		Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment		
1		32.9100	27.48	-12.24	15.24	30.00	-14.76	QP			
2	*	167,7400	33.97	-11.28	22.69	30.00	-7.31	QP			
3		215.2700	34.35	-14.20	20.15	30,00	-9.85	QP			
4		239.5200	32.11	-12.37	19.74	37.00	-17.26	QP			
5		949,5600	25.98	3.20	29.18	37.00	-7.82	QP			
6		988.3600	23.66	2.91	26.57	37.00	-10.43	QP			
-				12.0		01.00	19119	-			

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

File : A0142\Data :#4

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## Config\_2\_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config 2 Note: Data Write Polarization: Vertical Temperature: Humidity: 66 %

24 °C

Power: From System

Distance: 10m

		Radiate	d Emission	
File :A0142		Data :#3	Date: 2018/10/18	Time: 下午 08:19:11
1.0 dBuV/m				
				Limit1: —— Margin: ——
1				
ó				
		+	5	Š.
	3 3			
* 3	1			
o				

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		32.9100	31.51	-11.95	19.56	30.00	-10.44	QP		
2		55.2200	27.55	-11.08	16.47	30.00	-13.53	QP		
3	*	167.7400	34.96	-11.33	23,63	30,00	-6.37	QP		
4		215.2700	35.75	-14.20	21.55	30.00	-8.45	QP		
5		713,8500	31.43	-1.30	30.13	37.00	-6.87	QP		
6		970.9000	26.24	2.00	28.24	37.00	-8.76	QP		

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

File : A0142\Data :#3

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## Config\_3\_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config 3

Note: REC Mode(Back)

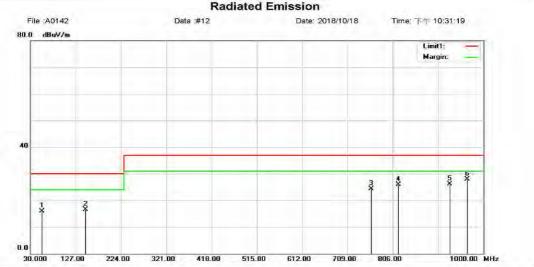
Polarization: Horizontal

Power: AC 120V/60Hz

Distance: 10m

Temperature: 24 °C

Humidity: 66 %



o. Mk.	k. Freq.	Freq.	Freq.	Freq.	Freq.	Freq.		Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment						
	55.2200	27.18	-11.36	15.82	30.00	-14.18	QP							
A Trans	148.3400	27.44	-11.03	16.41	30.00	-13.59	QP							
	759,4400	23,60	0.77	24.37	37.00	-12.63	QP							
	818.6100	24.71	1.12	25.83	37.00	-11.17	QP							
	928.2200	23.16	2.89	26.05	37.00	-10.95	QP							
*	965.0800	24.76	3.12	27.88	37.00	-9.12	QP							
		MHz 55.2200 148.3400 759.4400 818.6100 928.2200	Mk. Freq. Level  MHz dBuV  55.2200 27.18  148.3400 27.44  759.4400 23.60  818.6100 24.71  928.2200 23.16	Mk.         Freq.         Level         Factor           MHz         dBuV         dB/m           55,2200         27.18         -11.36           148,3400         27.44         -11.03           759,4400         23.60         0.77           818,6100         24.71         1.12           928,2200         23.16         2.89	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB/m         dBuV/m           55,2200         27.18         -11.36         15.82           148,3400         27.44         -11.03         16.41           759,4400         23.60         0.77         24.37           818,6100         24.71         1.12         25.83           928,2200         23.16         2.89         26.05	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dBuW         dBuV/m         dBuV/m         dBuV/m         dBuV/m         dBuV/m         dBuV/m         dBuV/m         dBuV/m         55.2200         27.18         -11.36         15.82         30.00         30.00         148.3400         27.44         -11.03         16.41         30.00         37.00         24.37         37.00         37.00         818.6100         24.71         1.12         25.83         37.00         928.2200         23.16         2.89         26.05         37.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dBuV         dBuV/m         dBuV/m         dBuV/m         dB           55.2200         27.18         -11.36         15.82         30.00         -14.18           148.3400         27.44         -11.03         16.41         30.00         -13.59           759.4400         23.60         0.77         24.37         37.00         -12.63           818.6100         24.71         1.12         25.83         37.00         -11.17           928.2200         23.16         2.89         26.05         37.00         -10.95	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB/m         dBuV/m         dBuV/m         dB         Detector           55,2200         27.18         -11.36         15.82         30.00         -14.18         QP           148.3400         27.44         -11.03         16.41         30.00         -13.59         QP           759.4400         23.60         0.77         24.37         37.00         -12.63         QP           818.6100         24.71         1.12         25.83         37.00         -11.17         QP           928.2200         23.16         2.89         26.05         37.00         -10.95         QP						

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

File :A0142\Data #12

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## Config\_3\_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config 3

Note: REC Mode(Back)

Polarization: Vertical

Power: AC 120V/60Hz

Distance: 10m

Temperature: 24 °C

Humidity: 66 %

## Radiated Emission File :A0142 Data :#11 Date: 2018/10/18 Time: 下午 10:31:18 80.0 dBuV/m Limit1: Margin: 6 4 × 1000.00 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	30.9700	31.73	-12.11	19.62	30.00	-10.38	QP	
2		57,1600	27.59	-11.05	16.54	30.00	-13 46	QP	
3		152.2200	26,05	-10.72	15.33	30,00	-14.67	QP	
4		763.3200	25.84	-0.03	25.81	37.00	-11.19	QP	
5		923,3700	24.58	1.83	26,41	37.00	-10.59	QP	
6		989.3300	23.78	2.15	25.93	37.00	-11.07	QP	

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

File : A0142\Data #11

Page 1

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#### **Above 1GHz**

## 1GMz-18GMz Config 1 H

Distance:

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Config\_1

Note:

Polarization: Horizontal Power: AC 120V/60Hz

Temperature: 23 °C

18000.00 MHz

Humidity: 68 %

Radiated Emission Data :#24 Date: 2018/10/19 Time: 下午 09:18:51 File :A0142 100.0 dBuV/m FCC Class B 3M Radiation/1G-40GVPea FCC Class B 3M Hadiation([G-40G)(AVG) 0.0

No.	o. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2581.000	57.63	-11.35	46.28	74.00	-27.72	peak	
2		3567.000	58.15	-10.29	47.86	74.00	-26.14	peak	
3		4060.000	57.64	-8.23	49.41	74.00	-24.59	peak	
4	1 1 7	4842.000	58,62	-7.28	51.34	74.00	-22.66	peak	
5	7 6 5	4842.000	44.84	-7.28	37.56	54.00	-16.44	AVG	
6		5403.000	58.37	-6.30	52.07	74.00	-21.93	peak	
7		5403.000	44.42	-6.30	38.12	54.00	-15.88	AVG	
8		5760.000	57.78	-5.33	52.45	74.00	-21.55	peak	
9	*	5760.000	43.64	-5.33	38.31	54.00	-15.69	AVG	

11200.00

12900.00

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

File :A0142\Data :#24

1000.000 2700.00

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## Config\_1\_V

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Config\_1

Note:

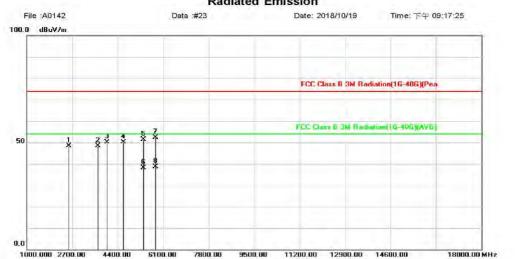
Polarization: Vertical Power: AC 120V/60Hz

Temperature: 23 ℃

Humidity: 68 %

Radiated Emission

Distance:



No.	o. Mk.	k. Freq.	Reading req. Level		Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2581.000	59.72	-11.35	48.37	74.00	-25.63	peak	
2		3652.000	58.27	-9.91	48.36	74.00	-25.64	peak	
3	. 1	4009.000	58.43	-8.29	50.14	74.00	-23.86	peak	
4	1.1	4621.000	57.74	-7.57	50.17	74.00	-23.83	peak	
5	77 6 8	5352.000	57.81	-6.40	51.41	74.00	-22.59	peak	
6		5352.000	44.54	-6.40	38.14	54.00	-15.86	AVG	
7	10	5811.000	57.46	-5.17	52.29	74.00	-21.71	peak	
8	*	5811.000	43.73	-5.17	38.56	54.00	-15.44	AVG	

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

File :A0142\Data :#23

Page: 1

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## Config\_2\_H

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Config\_2

Note:

Polarization: Horizontal Power: AC 120V/60Hz

Distance:

Temperature: 23 ℃

Humidity: 68 %

18000.00 MHz

Radiated Emission File :A0142 Date: 2018/10/19 Data :#16 Time: 下午 08:44:00 100.0 dBuV/m FCC Class B 3M Radiation(1G-40G)(Pea FCC Class B 3M Radiation(16-406)(AV6) 50

No.	o. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2581.000	58.18	-11.35	46.83	74.00	-27.17	peak	
2		3669.000	58.16	-9.82	48.34	74.00	-25.66	peak	
3		4825.000	58.33	-7.31	51,02	74.00	-22.98	peak	
4	1 1 7	4825.000	44.97	-7.31	37.66	54.00	-16,34	AVG	
5		5386.000	57.56	-6.33	51.23	74.00	-22.77	peak	
6		5386.000	44.46	-6.33	38.13	54.00	-15.87	AVG	
7		5777.000	57.60	-5.26	52.34	74.00	-21.66	peak	
8		5777.000	43,51	-5.26	38.25	54.00	-15.75	AVG	
9		6134.000	56.78	-3.65	53.13	74.00	-20.87	peak	
10	*	6134.000	42.08	-3.65	38.43	54.00	-15.57	AVG	

11200.00

12900.00

7800 NO

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

File :A0142\Data :#16

1000.000 2700.00

4400 DE

Page: 1

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## Config\_2\_V

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Config\_2

Note:

Polarization: Vertical Power: AC 120V/60Hz

Temperature: 23 ℃

Humidity: 68 %

Radiated Emission

Distance:



No.	o. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		-17
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2581.000	59.96	-11.35	48.61	74.00	-25.39	peak	
2		2870.000	58.71	-11.87	46.84	74.00	-27.16	peak	
3		3618.000	57.88	-10.05	47.83	74.00	-26.17	peak	
4	1	4315.000	58,96	-7.93	51.03	74.00	-22.97	peak	
5	7 6 0	5012.000	58.47	-7.08	51.39	74.00	-22.61	peak	
6		5012.000	45.19	-7.08	38.11	54.00	-15.89	AVG	
7	10	5794.000	58.02	-5.22	52.80	74.00	-21.20	peak	
8	*	5794.000	43.55	-5.22	38.33	54.00	-15.67	AVG	

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

File :A0142\Data :#15

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## Config\_3\_H

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Config\_3

Note:

Polarization: Horizontal Power: AC 120V/60Hz

Distance:

Temperature:

Humidity: 68 %

18000.00 MHz

Radiated Emission File :A0142 Date: 2018/10/19 Time: 下午 08:50:27 Data :#20 100.0 dBuV/m FCC Class B 3M Radiation(1G-40G)(Pea FCC Class B 3M Radiation(16-406)(AV6) 50

No.	o. Mk.	S. confin	Freq.		Reading Level	Correct Factor	Measure- ment	Limit	Over		-17 H
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment		
1		2615.000	59.75	-11.41	48.34	74.00	-25.66	peak			
2		3567.000	57.73	-10.29	47.44	74.00	-26.56	peak			
3	. 11	4315.000	58.34	-7.93	50,41	74.00	-23.59	peak			
4		4893,000	58,11	-7.22	50.89	74.00	-23.11	peak			
5	7 64	5284.000	58.19	-6,53	51.66	74.00	-22.34	peak			
6		5284.000	44.67	-6.53	38.14	54.00	-15.86	AVG			
7	4	5743.000	57.91	-5.37	52.54	74.00	-21.46	peak			
8	*	5743.000	43.76	-5.37	38.39	54.00	-15.61	AVG			

11200.00

12900.00

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

File :A0142\Data :#20

Page: 1

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## Config\_3\_V

Site SGS 966 Chamber A

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Mode: Config\_3

Note:

Polarization: Vertical Power: AC 120V/60Hz

Temperature: 23 °C

Humidity: 68 %

Distance:

Radiated Emission File :A0142 Data :#19 Date: 2018/10/19 Time: 下午 08:49:21 100.0 dBuV/m FCC Class B 3M Radiation(1G-40G)(Pea FCC Class B 3M Radiation(16-406)(AV6) 50 11200.00 18000.00 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		are to the
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2598.000	59.84	-11.36	48.48	74.00	-25.52	peak	
2		3669.000	57.99	-9.82	48.17	74.00	-25.83	peak	
3		4213.000	59.14	-8.04	51.10	74.00	-22.90	peak	
4	1.1	4213,000	45.47	-8.04	37.43	54.00	-16.57	AVG	
5	7 6 6	4995.000	59.33	-7.10	52.23	74.00	-21.77	peak	
6		4995.000	45.26	-7.10	38.16	54.00	-15.84	AVG	
7		5386.000	58.13	-6.33	51.80	74.00	-22.20	peak	
8		5386,000	44.65	-6.33	38.32	54.00	-15.68	AVG	
9		5879.000	57.50	-4.96	52.54	74.00	-21.46	peak	
10	*	5879.000	43.41	-4.96	38.45	54.00	-15.55	AVG	

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

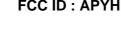
File :A0142\Data :#19

Page: 1

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FCC ID: APYHRO00264 Report No.: MH/2018/A0142

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## 18GMz-40GMz Config\_1\_H

Distance:

Site SGS 966 Chamber A

Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Note:

Polarization: Horizontal Power: AC 120V/60Hz

Temperature: 23 ℃

Humidity: 68 %

40000.00 MHz

Radiated Emission File :A0142 Time: 下午 05:16:37 Data :#10 Date: 2018/10/19 100.0 dBuV/m FCC Class B 1M Radiation[16-406][Pea FEC Class B (M Radiation) G-40G)(AVG) 2 3 50

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	-	19386.000	53.43	1.61	55.04	83.50	-28.46	peak		
2	- 3	21366.000	51.41	3.86	55.27	83.50	-28.23	peak		
3		21960.000	51.55	4.93	56,48	83.50	-27.02	peak		
4	1 6 3	24842,000	51.17	6.27	57.44	83.50	-26.06	peak		
5	T = 3	37052.000	44.33	12.55	56.88	83.50	-26.62	peak		
6	* 3	39956.000	42.05	16.74	58.79	83.50	-24.71	peak		

29000.00

31200.00

33400.00

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

22400 DE

24600.00

26800 OO

File :A0142\Data :#10

Page: 1

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## Config\_1\_V

Site SGS 966 Chamber A Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Note:

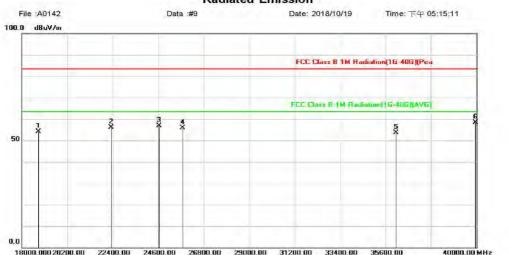
Polarization: Vertical Power: AC 120V/60Hz

Temperature: 23 °C

Humidity: 68 %

Radiated Emission

Distance:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	-	18792.000	52.89	1.26	54.15	83.50	-29.35	peak	
2	1 = 3	22334.000	50.79	5.27	56.06	83.50	-27.44	peak	
3	. 3	24644.000	50.63	6.23	56.86	83.50	-26.64	peak	
4	1 1 2	25788.000	50.50	5.44	55.94	83.50	-27.56	peak	
5	7	36106.000	43,61	10.12	53.73	83.50	-29.77	peak	
6	*	39956.000	41.60	16.74	58.34	83.50	-25.16	peak	

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

File :A0142\Data :#9

Page: 1

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## Config\_2\_H

Site SGS 966 Chamber A

Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Mode: Config\_2

Note:

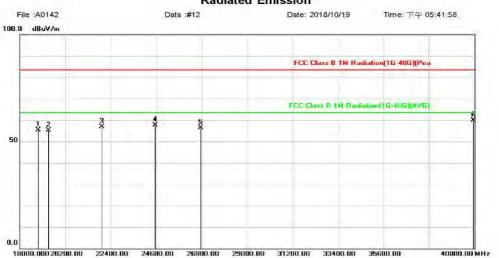
Polarization: Horizontal Power: AC 120V/60Hz

Temperature: 23 ℃

Humidity: 68 %

Radiated Emission

Distance:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		- T
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		18902.000	54.00	1.28	55.28	83.50	-28.22	peak	
2		19386.000	53.43	1.61	55.04	83.50	-28.46	peak	
3	113	21960.000	52.05	4.93	56.98	83.50	-26.52	peak	
4	1 1 2	24556.000	51.30	6.21	57.51	83.50	-25.99	peak	
5	1 1	26756.000	50.22	6.10	56,32	83.50	-27.18	peak	
6	*	39956.000	43.05	16.74	59.79	83.50	-23.71	peak	

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

File :A0142\Data :#12

Page: 1

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## Config\_2\_V

Site SGS 966 Chamber A Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Note:

Polarization: Vertical Power: AC 120V/60Hz

Temperature:

Humidity: 68 %

Distance:

-	- Alleria					···	ated E				New William		
Fil	e :A0142				Data :#11			Date: 2018/10/19 Time: 下午 05:40:22					
00.0	dBuV/m												
-								FCC	Class B 1M Ra	diation(16-40G)(P	'ea		
								FECT	Jase B (M Radi	ation(1G-40G)(AV	Б		
	d.	2	3	4	5 X						¥ ¥		
50	*	×	1		î								
30													
-													
						Ì	=1=						
0.0													

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	1	8792.000	53.89	1.26	55.15	83.50	-28.35	peak	
2	2	21388.000	52.16	3.90	56.06	83.50	-27.44	peak	
3	2	22334.000	52.29	5.27	57.56	83,50	-25.94	peak	
4	2	24644.000	52.13	6.23	58.36	83.50	-25.14	peak	
5	2	25788.000	52.00	5.44	57.44	83.50	-26.06	peak	
6	* 3	9956.000	43.60	16.74	60.34	83.50	-23.16	peak	

\*:Maximum data x:Over limit

File :A0142\Data :#11

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## Config\_3\_H

Site SGS 966 Chamber A

Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Mode: Config\_3

Note:

Polarization: Horizontal Power: AC 120V/60Hz

Distance:

Temperature: 23 ℃

Humidity: 68 %

Radiated Emission File :A0142 Time: 下午 05:58:39 Data :#14 Date: 2018/10/19 100.0 dBuV/m FCC Class B 1M Radiation(16-406)(Pea FEC Class B (M Radiation[16-406][AV6] 50

No.	o. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		19386.000	54.43	1.61	56.04	83.50	-27.46	peak	
2	1 1	22312.000	52.67	5.25	57.92	83.50	-25.58	peak	
3		25238.000	51.66	5.78	57.44	83.50	-26.06	peak	
4	Tig	26404.000	50.01	6.08	56,09	83.50	-27.41	peak	
5	16	37052.000	45.33	12.55	57.88	83.50	-25.62	peak	
6	*	39956.000	42.55	16.74	59.29	83.50	-24.21	peak	

29000.00

31200.00

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

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## Config\_3\_V

Site SGS 966 Chamber A Limit: FCC Class B 1M Radiation(1G-40G)(Pea

Mode: Config\_3

Note:

Polarization: Vertical Power: AC 120V/60Hz

Temperature: 23 ℃

Humidity: 68 %

Distance:

Radiated Emission File :A0142 Time: 下午 05:57:13 Data :#13 Date: 2018/10/19 100.0 dBuV/m FCC Class B 1M Radiation[16-406][Pea FEC Class B (M Radiation) (G-40G)(AVG) 50 26800.00 29000.00 31200.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		18792.000	54.39	1.26	55.65	83.50	-27.85	peak	
2	100	22334.000	51.29	5.27	56.56	83.50	-26.94	peak	
3		24644.000	50.63	6.23	56.86	83,50	-26.64	peak	
4	11.	25788.000	51.50	5.44	56.94	83.50	-26.56	peak	
5	1	32168.000	45.84	8.72	54.56	83.50	-28.94	peak	
6	+	39956.000	43.10	16.74	59.84	83.50	-23.66	peak	

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

File :A0142\Data :#13

Page: 1

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