

FCC ID: APYHRO00265 Report No.: MH/2018/80057

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FCC CERTIFICATION REPORT

Test Report No. : MH/2018/80057

: Sharp Corporation, Mobile Communication B.U. **Applicant**

Address : 2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi, Hiroshima

739-0192, Japan

Manufacturer : Sharp Corporation

: 1 Takumi-cho, Sakai-ku, Sakai-Shi, Osaka 590-8522, Japan **Address**

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. 07, 2018

Date of Test : Aug. 07 ~ 31, 2018

Date of Issue : Sep. 05, 2018

Test Result: **PASS**

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

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 shall not be reproduced except in full, without the written approval of the laboratory. 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.

Tested By:

Thomas Liu (Engineer)

Date Sep. 05, 2018

Approved By

Date

Sep. 05, 2018

Eddy Cheng (Asst. Supervisor)





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Revision History

Report Number	Revision	Description	Issue Date
MH/2018/80057	Rev.00	Initial creation of document	Sep. 05, 2018

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1. General Information

1.1 Applicant & Manufacturer Information

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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 : 2480 MHz

Battery : 3.85V, 2700mAh, 10.40Wh

Worst case : CE worst case : Config 1

> Below RE worst case: Config 2 Above RE worst case: Config 3

	FCC ID : APYHRO00265
1 ST Source (eMCP memory, PCB, Shield, Sub camera)	V
2 nd Source (eMCP memory, PCB, Shield, Sub camera)	Worst case

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Accessories List: AC Charger : Salom/XN-2QC25 Data Cable : Luxshare- ICT/L6KU2007-CS-H PHF : 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

- 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, HRE)	DELL	Latitude E6440	3VGS162
Notebook (CE)	DELL	Latitude E5430	COVZYW1
Mouse (RE, HRE, CE)	Logitech	M-U0026	1738HS05FGU8
Printer (RE, HRE, CE)	HP	VCVRA-1004	CN33K19J3F
Micro SD	Transcend	Micro SDHC (Class4)	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	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
Earphone Cable	N/A	1.25m	Non-shielding

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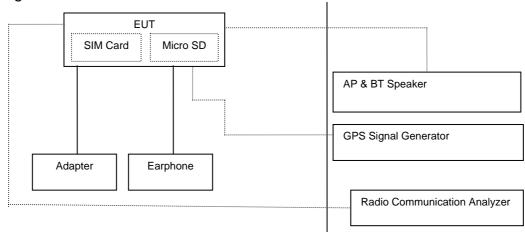
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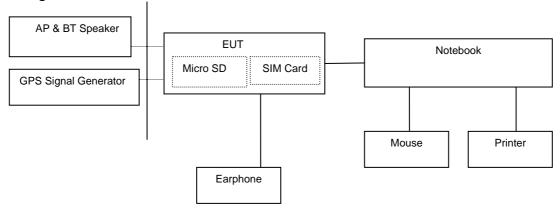
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1.8 Test Set-Up Configuration

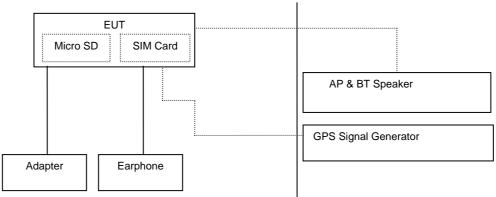
Config 1



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

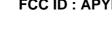
1.11 Summary of Results

Highest Emission					
Standard Test Type Result Phase/Pol. Frequency(MHz) Margin(dB					Margin(dB)
ECC Down 45 Cultinant D	Conducted Emission PASS	DACC	Line	0.2140	-14.02 (QP)
FCC Part 15 Subpart B Class B		PASS	Neutral	0.2060	-16.63 (QP)
Class D	Radiated Emission	PASS	Ver.	45.2700	-5.47 (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 - 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 i arretter i again i care			
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

SG	SS Conducted_Emis	ssion HWAYA Conducted	d Room No.A_E	MC	
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101342	2018/1/31	2019/1/30
Coaxial Cables	EMC Instruments Corp	EMCRG58-BM-BM- 3000	160812	2018/8/12	2019/8/11
LISN	Schwarzbeck	NSLK 8127	8127-648	2018/7/9	2019/7/8
Pulse Limiter	Narda S.T.S.	PMM PL01	1110X30602	2018/8/12	2019/8/11
LISN	Schwarzbeck	NSLK 8128	NSLK8128- 300	2017/9/4	2018/9/3
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
Test S/W	Farad	EZ-EMC	Ver. SGS- 03A2	N.C.R.	N.C.R.

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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: 25 degree C Humidity: 66 %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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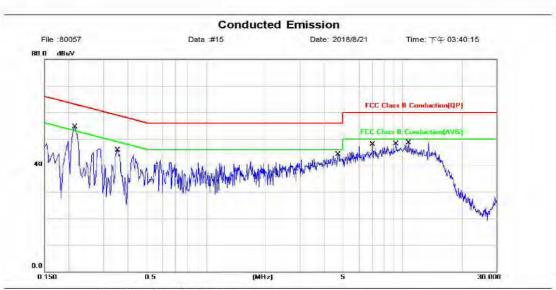


2.4.4 Measurement Data:

Config_1_L

25 % Phase: Temperature: Site : Conduction Room L1 AC 120V/60Hz Humidity: 66 % Limit: FCC Class B Conduction(QP) Power:

Mode: Config 1 Note: GSM850



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2140	49.00	0.03	49.03	63.05	-14.02	QP	
2		0.2140	37.60	0.03	37.63	53.05	-15.42	AVG	
3	0	0.3540	40.20	0.09	40.29	58.87	-18.58	QP	
4		0.3540	32.20	0.09	32.29	48.87	-16.58	AVG	
5		4.6980	36.80	0.33	37.13	56.00	-18.87	QP	
6		4.6980	28.10	0.33	28.43	46.00	-17.57	AVG	
7		7.0620	38.50	0.39	38.89	60.00	-21.11	QP	
8		7_0620	29.10	0.39	29.49	50.00	-20.51	AVG	
9		9.2860	39.00	0.44	39.44	60.00	-20.56	QP	
10		9.2860	29.40	0.44	29.84	50.00	-20.16	AVG	
11		10.7380	39.20	0.49	39.69	60.00	-20.31	QP	
12		10.7380	29.00	0.49	29.49	50.00	-20.51	AVG	

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

File :80057\Data :#15

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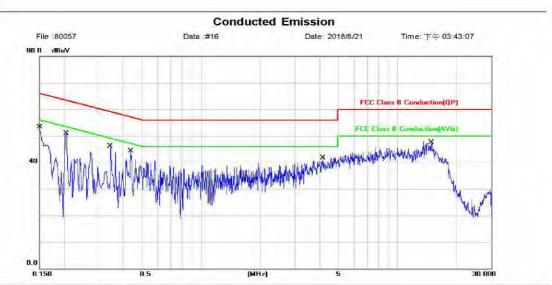
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Config_1_N

Temperature: 25 °C Site: Conduction Room Phase: Limit: FCC Class B Conduction(QP) AC 120V/60Hz Humidity: 66 % Power:

Mode: Config 1 Note: GSM850



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	43.10	0.04	43.14	66.00	-22.86	QP	
2		0.1500	25.20	0.04	25.24	56.00	-30.76	AVG	
3	*	0.2060	46.70	0.04	46.74	63.37	-16.63	QP	
4		0.2060	33.30	0.04	33.34	53.37	-20.03	AVG	
5		0.3460	36,50	0.09	36.59	59.06	-22.47	QP	
6		0.3460	20.00	0.09	20,09	49.06	-28.97	AVG	
7		0.4380	35.70	0.12	35.82	57.10	-21.28	QP	
8		0.4380	23.10	0.12	23.22	47.10	-23.88	AVG	
9		4.1740	34.50	0.30	34.80	56.00	-21.20	QP	
10		4.1740	25.50	0.30	25,80	46.00	-20.20	AVG	
11		14.8780	38.50	0.50	39.00	60.00	-21.00	QP	
12		14.8780	17.30	0.50	17.80	50.00	-32.20	AVG	

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

File: 80057\Data: #16 Page: 1

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Config_2_L

Temperature: 25 °C Site : Conduction Room Phase: L1 Limit: FCC Class B Conduction(QP) From System Humidity: 66 % Power:

Mode: Config 2

Note: Data Read (SD Card) AC 120V/60Hz

	Condu	ıcted Emission	
File: 80057	Data :#25	Date: 2018/8	/21 Time: 下午 05:39:37
n dRuV			
			FCC Class B Conduction(QP)
M			
M *.			FCE Class B Conduction(AVE)
Marx	4		
Y Y Y Y T In s			
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	46.50	0.04	46.54	65.57	-19.03	QP	
2		0.1580	27.60	0.04	27.64	55.57	-27.93	AVG	
3	*	0.1820	47.50	0.03	47.53	64.39	-16.86	QP	
4		0.1820	33.80	0.03	33.83	54.39	-20.56	AVG	
5		0.2460	35,80	0.05	35.85	61.89	-26.04	QP	
6		0.2460	21.30	0.05	21.35	51.89	-30,54	AVG	
7		0.2780	39.00	0.06	39.06	60.88	-21.82	QP	
8		0.2780	31.90	0.06	31.96	50.88	-18.92	AVG	
9	p ²	0.4340	36.20	0.12	36,32	57.18	-20.86	QP	
10		0.4340	21.70	0.12	21.82	47.18	-25,36	AVG	
11	1	1.7500	27.70	0.27	27.97	56.00	-28.03	QP	
12		1.7500	20.50	0.27	20.77	46.00	-25.23	AVG	
_									

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

File: 80057\Data: #25 Page: 1

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Config_2_N

Temperature: 25 °C Conduction Room Phase: Site : Limit: FCC Class B Conduction(QP) From System Humidity: 66 % Power:

Mode: Config 2

Note: Data Read (SD Card) AC 120V/60Hz

		Conducte	d Emission			
File: 80057	D	ata :#26	Date: 2018/8	3/21	Time: 下午 05:40	36
0.0 dRuV						
				FEC Class	8 Conduction(QP)	
¥						
×				FCC Close I	Conduction(AVS)	
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1.150	0.5	(MHz)	5			30 000

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	45.40	0.04	45.44	65.36	-19.92	QP	
2		0.1620	24.10	0.04	24.14	55.36	-31.22	AVG	
3	*	0.1820	47.80	0.04	47.84	64.39	-16.55	QP	
4		0.1820	32.30	0.04	32.34	54.39	-22.05	AVG	
5		0.2300	42.70	0.05	42.75	62.45	-19.70	QP	
6		0.2300	30.80	0.05	30,85	52.45	-21.60	AVG	
7		0.2660	35.50	0.06	35.56	61.24	-25.68	QP	
8		0.2660	22.70	0.06	22.76	51.24	-28.48	AVG	
9		0.3260	35.30	0.08	35,38	59.55	-24.17	QP	
10		0.3260	26.90	0.08	26,98	49.55	-22.57	AVG	
11		0.4700	34.30	0.13	34.43	56,51	-22.08	QP	
12		0.4700	26.50	0.13	26.63	46.51	-19.88	AVG	

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

File: 80057\Data: #26 Page: 1

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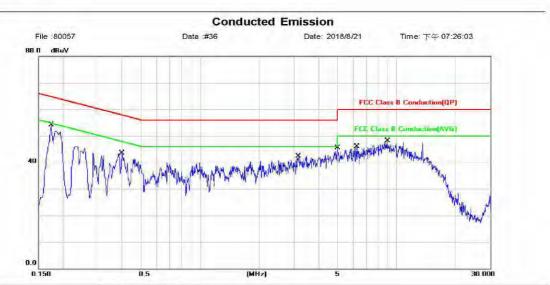
Page: 16 of 46



Config_3_L

Temperature: 25 °C Site: Conduction Room Phase: L1 Limit: FCC Class B Conduction(QP) AC 120V/60Hz Humidity: 66 % Power:

Mode: Config 3 Note: play REC



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1740	49.90	0.04	49.94	64.77	-14.83	QP	
2		0.1740	37.00	0.04	37.04	54.77	-17.73	AVG	
3		0.3980	42.30	0.11	42.41	57.90	-15.49	QP	
4		0.3980	27.80	0.11	27.91	47.90	-19.99	AVG	
5		3.1620	35.00	0.29	35.29	56.00	-20.71	QP	
6		3,1620	26.20	0.29	26,49	46.00	-19.51	AVG	
7		5.0180	37.20	0.34	37.54	60.00	-22.46	QP	
8		5.0180	28.40	0.34	28.74	50.00	-21.26	AVG	
9		6.3060	39.10	0.37	39.47	60.00	-20.53	QP	
10		6.3060	29.10	0.37	29.47	50.00	-20.53	AVG	
11		8.9820	38.90	0.43	39.33	60.00	-20.67	QP	
12	-	8.9820	28.40	0.43	28.83	50.00	-21.17	AVG	

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

File: 80057\Data: #36 Page: 1

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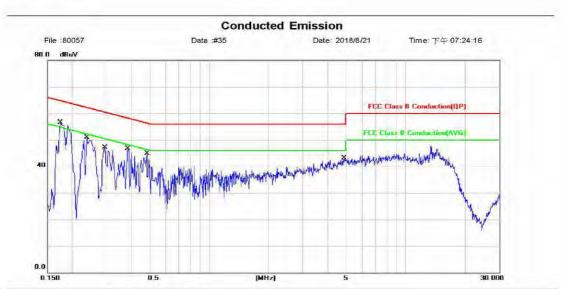
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Config_3_N

Temperature: 25 °C Site: Conduction Room Phase: Limit: FCC Class B Conduction(QP) AC 120V/60Hz Humidity: 66 % Power:

Mode: Config 3 Note: play REC



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1740	53.30	0.04	53.34	64.77	-11.43	QP	
2		0.1740	37.50	0.04	37.54	54.77	-17.23	AVG	
3		0.2380	46.70	0.05	46.75	62.17	-15.42	QP	
4		0.2380	30.20	0.05	30.25	52.17	-21.92	AVG	
5		0.2940	40.10	0.07	40.17	60.41	-20.24	QP	
6		0.2940	23.90	0.07	23.97	50.41	-26.44	AVG	
7		0.3860	42.80	0.10	42.90	58.15	-15.25	QP	
8		0.3860	27.70	0.10	27.80	48.15	-20.35	AVG	
9	4	0.4820	38.40	0.13	38,53	56.30	-17.77	QP	
10		0.4820	25.10	0.13	25.23	46.30	-21.07	AVG	
11		4.8700	36.40	0.31	36.71	56.00	-19.29	QP	
12		4.8700	26.60	0.31	26.91	46.00	-19.09	AVG	

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

File: 80057\Data: #35 Page: 1

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

	SGS Radiated_Bel	low_1GHz HWAYA 1	0m_EMC		
EQUIPMENT TYPE	Manufacturer	Model Number	Serial	Calibration	Calibration
EQUIFINENT THE		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	2017/9/8	2018/9/7
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	2017/9/12	2018/9/11
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

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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	ve_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	BBHA9120D67 3	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

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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SGS Taiwan Ltd.



SGS

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2.5.4 Measurement Data

Below 1GHz

Config_1_H

Distance: 10m

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

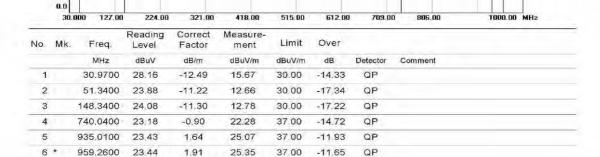
Mode: Config_1 Note WCDMA BV Polarization Horizontal Power: AC 120V/60Hz

Temperature: 24 °C

Humidity: 66 %

5 6

Radiated Emission File : MH-2018-80057 Data #8 Date: 2018/8/20 Time: 下午 11:34:37 80.0 dBuV/m Limit1 Margin 40



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

File :MH-2018-80057\Data :#8

Page: 1

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Config_1_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

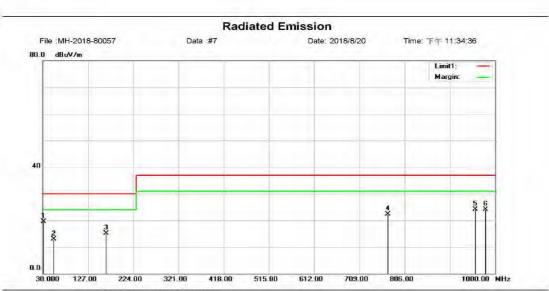
Mode: Config_1 Note WCDMA BV Polarization Vertical

Power: AC 120V/60Hz

Temperature: 24 °C

Humidity: 66 %

Distance: 10m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	31.9400	31.78	-12.24	19.54	30.00	-10.46	QP		
2		54.2500	24.02	-11.05	12.97	30.00	-17.03	QP		
3		166.7700	26.42	-11.41	15.01	30.00	-14.99	QP		
4	5	770.1100	22.66	-0.36	22.30	37.00	-14.70	QP		
5		957.3200	22.65	1.52	24.17	37.00	-12.83	QP		
6		979.6300	22.55	1.62	24.17	37.00	-12.83	QP		

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

File :MH-2018-80057\Data #7

Page: 1

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Config_2_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_2 Note Data Read Polarization: Horizontal

Humidity: 66 %

Temperature: 24 °C

Distance: 10m

Power: From System

Radiated Emission



No.	Mk.	Freq.					Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment				
1		30.0000	27.99	-12.60	15.39	30.00	-14.61	QP					
2		54.2500	24.43	-11.49	12.94	30.00	-17.06	QP					
3		153.1900	23.90	-11.27	12.63	30.00	-17.37	QP					
4	111	871.9600	23.55	0.63	24.18	37.00	-12.82	QP					
5		939.8600	23.43	1.76	25.19	37.00	-11.81	QP					
6	*	974.7800	23.54	1.75	25.29	37.00	-11.71	QP					

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

File :MH-2018-80057\Data :#10

Page: 1

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Config_2_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_2 Note Data Read Polarization Vertical

Power: From System

Distance: 10m

Temperature: 24 °C

Humidity: 66 %

Radiated Emission



No.	Mk.	Freq.		Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		30.0000	35.74	-12.40	23.34	30.00	-6.66	QP		
2	*	45.2700	35.42	-10.89	24.53	30.00	-5.47	QP		
3	1	157.0700	25.66	-10.77	14.89	30.00	-15.11	QP		
4	111	896.2100	22.66	1.01	23.67	37.00	-13.33	QP		
5		932.1000	22.76	1.36	24.12	37.00	-12.88	QP		
6		964.1100	22.74	1.56	24.30	37.00	-12.70	QP		

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

File :MH-2018-80057\Data #9

Page: 1

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Config_3_H

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_3 Note REC (Back) Polarization Horizontal

Power: AC 120V/60Hz

Temperature: 24 °C Humidity: 66 %

Distance: 10m

Radiated Emission File: MH-2018-80057 Data #12 Date: 2018/8/20 Time: 下午 11:47:53 80.0 dBuV/m Limit1: Margin: 6 127.00 224.00 515.00 612.00 709.00 806.00 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		31.9400	28.91	-12.39	16.52	30.00	-13.48	QP		
2		51.3400	23.90	-11.22	12.68	30.00	-17.32	QP		
3		165.8000	24.10	-11.28	12.82	30.00	-17.18	QP		
4	111	849.6500	23.69	0.50	24.19	37.00	-12.81	QP		
5		947.6200	23.30	1.95	25.25	37.00	-11.75	QP		
6	*	983.5100	23.62	1.66	25.28	37.00	-11.72	QP		

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

File :MH-2018-80057\Data :#12

Page: 1

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Config_3_V

Site SGS 10m Chamber

Limit: CISPR22 Class B 10M Radiation

Mode: Config_3 Note REC (Back) Polarization Vertical

Power: AC 120V/60Hz

Distance: 10m

Temperature: 24 °C

Humidity: 66 %

Radiated Emission



No. Mk.	Freq.		Freq.	Freq.	Freq.		Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment					
*	32.3000	32.12	-12.22	19.90	30.00	-10.10	QP						
	54.2500	24.05	-11.05	13.00	30.00	-17.00	QP						
1.00	166.7700	26.18	-11.41	14.77	30.00	-15.23	QP						
111	787.5700	22.64	0.03	22.67	37.00	-14.33	QP						
	883.6000	22.64	0.73	23.37	37.00	-13.63	QP						
	948.5900	22.78	1.48	24.26	37.00	-12.74	QP						
		MHz * 32.3000 54.2500 166.7700 787.5700 883.6000	Mk. Freq. Level MHz dBuV * 32.3000 32.12 54.2500 24.05 166.7700 26.18 787.5700 22.64 883.6000 22.64	Mk. Freq. Level Factor MHz dBuV dB/m * 32.3000 32.12 -12.22 54.2500 24.05 -11.05 166.7700 26.18 -11.41 787.5700 22.64 0.03 883.6000 22.64 0.73	Mk. Freq. Level Factor ment MHz dBuV dB/m dBuV/m * 32.3000 32.12 -12.22 19.90 54.2500 24.05 -11.05 13.00 166.7700 26.18 -11.41 14.77 787.5700 22.64 0.03 22.67 883.6000 22.64 0.73 23.37	Mk. Freq. Level Factor ment Limit MHz dBuV dBuW dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m 30.00 30	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB/m dBuV/m dBuV/m dB * 32.3000 32.12 -12.22 19.90 30.00 -10.10 54.2500 24.05 -11.05 13.00 30.00 -17.00 166.7700 26.18 -11.41 14.77 30.00 -15.23 787.5700 22.64 0.03 22.67 37.00 -14.33 883.6000 22.64 0.73 23.37 37.00 -13.63	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB/m dBuV/m dBuV/m dB Detector * 32.3000 32.12 -12.22 19.90 30.00 -10.10 QP 54.2500 24.05 -11.05 13.00 30.00 -17.00 QP 166.7700 26.18 -11.41 14.77 30.00 -15.23 QP 787.5700 22.64 0.03 22.67 37.00 -14.33 QP 883.6000 22.64 0.73 23.37 37.00 -13.63 QP					

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

File :MH-2018-80057\Data :#11

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Above 1GHz

1GMz-18GMz Config 1 H

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: 22 °C Humidity: 71 %

Distance:

Radiated Emission Data :#10 Date: 2018/8/23 Time: 下午 10:10:40 File: 80057 100.0 dBuV/m FCC Class B 3M Radiation(16-406)(Pea FCC Class B 3M Radiation (1G-40G NAVG) 50 0.0 1000.000 2700.00 11200.00 12900.00 18000.00 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2598.000	58.38	-11.36	47.02	74.00	-26.98	peak	
2		4247.000	57.72	-8.00	49.72	74.00	-24.28	peak	
3	1 .	4706.000	57.95	-7.46	50.49	74.00	-23.51	peak	
4	1 1	5301.000	57.71	-6.50	51.21	74.00	-22.79	peak	
5	1	5301.000	45.08	-6.50	38.58	54.00	-15.42	AVG	
6		5743.000	57.85	-5.37	52.48	74.00	-21.52	peak	
7	*	5743.000	44.48	-5.37	39.11	54.00	-14.89	AVG	
8		6117.000	56.51	-3.75	52.76	74.00	-21.24	peak	
9	7	6117.000	42.79	-3.75	39.04	54.00	-14.96	AVG	

*: Maximum data x:Over limit hover margin

File: 80057\Data: #10

Page: 1

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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: 22 ℃

Humidity: 71 %

18000.00 MHz

Distance:

Radiated Emission File: 80057 Data :#9 Date: 2018/8/23 Time: 下午 10:09:39 100.0 dBuV/m FCC Class B 3M Radiation(16-406)(Pea FCC Class B 3M Radiation(1G-40G)(AVG) 50 7 9 5

			Reading	Correct	Measure-				
No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2581.000	58.60	-11.35	47.25	74.00	-26.75	peak	
2		3856.000	58.54	-8.96	49.58	74.00	-24.42	peak	
3	1.	4910.000	57.73	-7.20	50.53	74.00	-23.47	peak	
4		5386.000	58.66	-6.33	52.33	74.00	-21.67	peak	
5		5386.000	44.97	-6.33	38.64	54.00	-15.36	AVG	
6		5760.000	57.26	-5.33	51.93	74.00	-22.07	peak	
7	*	5760.000	44.45	-5.33	39.12	54.00	-14.88	AVG	
8		6117.000	56.09	-3.75	52.34	74.00	-21.66	peak	
9	7 7 7	6117.000	42.82	-3.75	39.07	54.00	-14.93	AVG	

9500.00

11200.00

12900.00

7800 OO

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

File: 80057\Data:#9

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

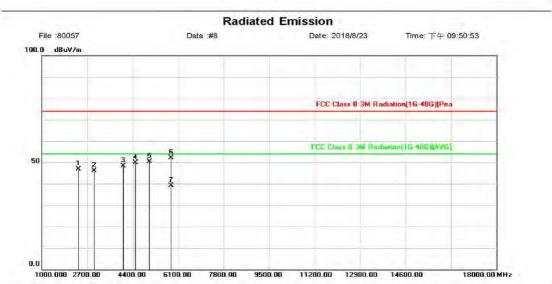
Note:

Polarization: Horizontal Power: AC 120V/60Hz

Distance:

Temperature: 22 °C

Humidity: 71 %



No.	No. Mk.		. Freq.	Freq.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment			
1		2377.000	60.46	-13.60	46.86	74.00	-27.14	peak				
2		2955.000	58.31	-12.23	46.08	74.00	-27.92	peak				
3		4043.000	57.56	-9.17	48.39	74.00	-25.61	peak				
4		4502.000	57.74	-7.80	49.94	74.00	-24.06	peak				
5	- 1	5029.000	57.61	-7.25	50.36	74.00	-23.64	peak				
6		5828.000	57.64	-5.48	52.16	74.00	-21,84	peak				
7	*	5828.000	44.63	-5.48	39.15	54.00	-14.85	AVG				

*:Maximum data x:Over limit

File: 80057\Data:#8

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Config_2_V

Distance:

Site SGS 966 Chamber A

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

Mode: Config_2

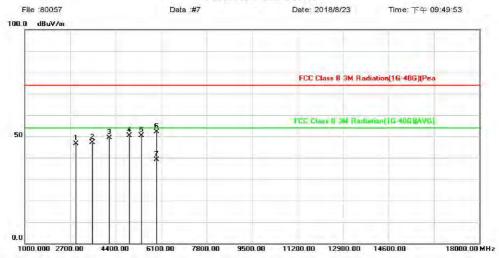
Note:

Polarization: Vertical Power: AC 120V/60Hz

Temperature: 22 °C

Humidity: 71 %

Radiated Emission Date: 2018/8/23



No.	lo. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2904.000	58.87	-12.27	46.60	74.00	-27.40	peak	
2	-	3533.000	57.84	-10.80	47.04	74.00	-26.96	peak	
3	1.	4162.000	58.19	-8.82	49.37	74.00	-24.63	peak	
4	- 1	4910.000	57,79	-7.38	50.41	74.00	-23.59	peak	
5		5369.000	57.13	-6.63	50.50	74.00	-23.50	peak	
6		5930.000	57.22	-5.19	52.03	74.00	-21,97	peak	
7	*	5930.000	44.25	-5.19	39.06	54.00	-14.94	AVG	

*:Maximum data x:Over limit

File: 80057\Data:#7

Page: 1

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台灣檢驗科技股份有限公司



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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: 22 ℃

Humidity: 71 %

Radiated Emission



No.	o. Mk.	. Freq.	Freq.	7 V-34	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment		
1		2530.000	57.85	-11.25	46.60	74.00	-27.40	peak			
2		4128.000	57.92	-8.14	49.78	74.00	-24.22	peak			
3	100	4825.000	57.75	-7.31	50.44	74.00	-23.56	peak			
4	7 0	4961.000	57.93	-7.14	50.79	74.00	-23.21	peak			
5		5369.000	58.92	-6.36	52.56	74.00	-21.44	peak			
6		5369.000	45.13	-6.36	38.77	54.00	-15.23	AVG			
7		5760.000	57.29	-5.33	51.96	74.00	-22.04	peak			
8	*	5760.000	44.84	-5.33	39.51	54.00	-14,49	AVG			

*:Maximum data x:Over limit hover margin

File: 80057\Data:#12

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Config_3_V

Distance:

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: 22 ℃

18000.00 MHz

Humidity: 71 %

Radiated Emission File: 80057 Date: 2018/8/23 Data :#11 Time: 下午 10:33:11 100.0 dBuV/m FCC Class B 3M Radiation(16-406)[Pea FCC Class B 3M Radiation(1G-40G)(AVG) 50

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2598.000	57.99	-11.36	46.63	74.00	-27.37	peak	
2		4128.000	57.76	-8.14	49.62	74.00	-24.38	peak	
3	1 7	4553.000	57.58	-7.64	49.94	74.00	-24.06	peak	
4	1 -	5063.000	57.94	-6.97	50.97	74.00	-23.03	peak	
5		5386.000	57.86	-6.33	51.53	74.00	-22.47	peak	
6		5386.000	45.29	-6.33	38.96	54.00	-15.04	AVG	
7		5811.000	57.47	-5.17	52.30	74.00	-21.70	peak	
8	*	5811.000	44.61	-5.17	39.44	54.00	-14,56	AVG	

9500.00

11200.00

12900.00

7800 OO

*:Maximum data x:Over limit hover margin

File: 80057\Data:#11

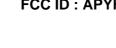
1000.000 2700.00

Page: 1

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18GMz-30GMz Config_1_H

Distance:

Site SGS 966 Chamber A

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

Mode: Config_1

Note:

Polarization: Horizontal Power: AC 120V/60Hz

Temperature: 22 °C

Humidity: 71 %

		R	adiated En	nission	
File :80057		Data :#20		Date: 2018/8/23	Time: 下午 10:52:58
				FCC Class B 1M	Radiation(16-406)(Pea
				FEC Class 0 1M R	edieGen((G-40G)(AVG)
50	*	3 ×	*	\$	
0.0	00.00 20400.00	21600.00 22800	00 24000.00	25200.00 26400.0	0 27500 00 30000 00 M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		20028.000	53.79	2.70	56.49	83.50	-27.01	peak	
2	- 3	21408.000	53.05	3.94	56.99	83.50	-26.51	peak	
3	1	21996.000	52.59	5.00	57.59	83.50	-25.91	peak	
4		24132.000	51.91	5.98	57.89	83.50	~25.61	peak	
5	*	24672.000	52.63	6.23	58.86	83.50	-24.64	peak	
6		26292.000	51.47	5.96	57.43	83.50	-26.07	peak	
_									

*:Maximum data x:Over limit

File: 80057\Data: #20

Page: 1

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Config_1_V

Distance:

Site SGS 966 Chamber A

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

Mode: Config_1

Note:

Polarization: Vertical Power: AC 120V/60Hz

Temperature: 22 ℃

30000.00 MHz

Humidity: 71 %

Radiated Emission File: 80057 Time: 下午 10:50:40 Data :#19 Date: 2018/8/23 100.0 dBuV/m FCC Class B 1M Radiation(16-40G)(Ped FEC Clars 8 1M Redistion (1G-405 (AVG) 50

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		19380.000	53,94	1.61	55.55	83.50	-27.95	peak	
2		19848.000	54.86	2.40	57.26	83.50	-26.24	peak	
3	*	21960.000	53.60	4.93	58.53	83.50	-24.97	peak	
4		23712.000	52,21	5.90	58.11	83.50	-25.39	peak	
5		24684.000	52.14	6.24	58.38	83.50	-25.12	peak	
6		26304.000	51.77	5.96	57.73	83.50	-25.77	peak	

24000.00

25200.00

26400.00

21600.00

22800.00

*:Maximum data x:Over limit hover margin

File: 80057\Data:#19

Page: 1

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Config_2_H

Distance:

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: 22 ℃ Humidity: 71 %

30000.00 MHz

Radiated Emission File: 80057 Time: 下午 11:02:39 Data :#22 Date: 2018/8/23 100.0 dBuV/m FCC Class B 1M Radiation(16-406)(Per FEC Class 0 1M Radiotion (1G-405 (AVG) 50

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		18804.000	53.82	1.26	55.08	83.50	-28.42	peak	
2	- 6-4	19680.000	53.95	2.06	56.01	83.50	-27.49	peak	
3	1	21996.000	51.09	5.00	56.09	83.50	-27.41	peak	
4		24132.000	50.91	5.98	56.89	83.50	-26.61	peak	
5	*	24672.000	51.63	6.23	57.86	83.50	-25.64	peak	
6		26292.000	51.47	5.96	57.43	83.50	-26.07	peak	

24000.00

25200.00

21600.00

22800.00

*:Maximum data x:Over limit hover margin

File: 80057\Data: #22

Page: 1

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Config_2_V

Distance:

Site SGS 966 Chamber A

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

Note:

Polarization: Vertical Power: AC 120V/60Hz

Temperature:

Humidity: 71 %

					Rad	diated I	Emiss	ion			
File	:80057			Data	a :#21		E	ate: 20	18/8/23	Time: 下午	11:01:14
0.00	dBuV/m										-
								FCC CI	ass B 1M B	adiation(16-406)(Pc	id
								EC Clas	: B 1M Na	distinn(1G-40G (AVC	
			2	3			5 *				
-		×	\$	Ť	*		*		×		
50											
			-				-				
-											
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		19380.000	53.44	1.61	55.05	83.50	-28.45	peak	
2	- 1-4	19848.000	53.86	2.40	56.26	83.50	-27.24	peak	
3		21960.000	51.60	4.93	56.53	83.50	-26.97	peak	
4	-0.0	22440.000	50.98	5.35	56.33	83.50	-27.17	peak	
5	*	24684.000	50.64	6.24	56.88	83.50	-26.62	peak	
6		26304.000	50.27	5.96	56.23	83.50	-27,27	peak	
		The state of the state of							

*:Maximum data x:Over limit

File: 80057\Data:#21

Page: 1

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Site SGS 966 Chamber A

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

Mode: Config_3

Note:

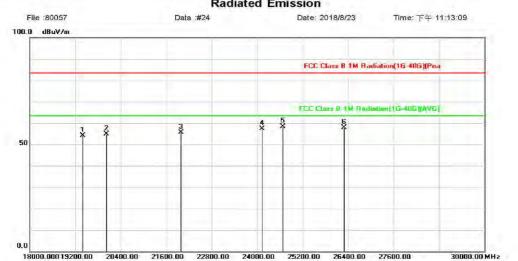
Polarization: Horizontal Power: AC 120V/60Hz

Temperature: 22 ℃

Humidity: 71 %

Distance:

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	'	19392.000	52.42	1.62	54.04	83.50	-29.46	peak	
2	-	20028.000	52.29	2.70	54.99	83.50	-28.51	peak	
3	1.73	21996.000	50.59	5.00	55.59	83.50	-27.91	peak	
4		24132.000	51.41	5.98	57.39	83.50	-26.11	peak	
5	*	24672.000	52.13	6.23	58.36	83.50	-25.14	peak	
6		26292.000	51.97	5.96	57.93	83.50	-25.57	peak	
_									

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

File: 80057\Data: #24

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Config_3_V

Distance:

Site SGS 966 Chamber A

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

Mode: Config_3

Note:

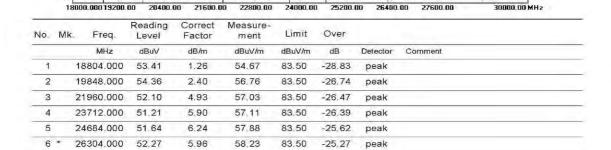
Polarization: Vertical

Power: AC 120V/60Hz

Temperature: 22 ℃

Humidity: 71 %

Radiated Emission File: 80057 Data :#23 Date: 2018/8/23 Time: 下午 11:10:27 100.0 dBuV/m FCC Class B 1M Radiation(16-406)(Per FEC Class 8 1M Redistion (G-405 (AVG) 50



*:Maximum data x:Over limit hover margin

File: 80057\Data: #23

Page: 1

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