

FCC CERTIFICATION REPORT

: E1/2017/80099
: Sharp Corporation, IoT Communication B.U.
: 2-13-1, Hachihonmatsu-Iida, Higashi-hiroshima-shi,Hiroshima 739-0192, Japan
: Sharp Corporation
: 1 Takumi-cho, Sakai-ku, Sakai City,Osaka 590-8522,Japan
er Test (EUT) :
: Smart Phone
: FCC Part 15:2017, Subpart B, Class B
n Numbers : 916890
: Aug. 10, 2017
: Aug. 10 ~ Sep. 06, 2017
: Sep. 13, 2017

 Test Result :
 PASS

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

 Remarks :

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

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Tested By:

van	Hsieh	
Ivan Hsieh	(Engineer)	

Date	Sep. 13, 2017

Sep. 13, 2017

Approved By

Eddy Cheng





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Date

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Report No.: E1/2017/80099 Page: 2 of 42

Revision History

Report Number	Revision	Description	Issue Date
E1/2017/80099	Rev.00	Initial creation of document	Sep. 13, 2017

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1. General Information

1.1 Applicant & Manufacturer Information

Applicant	: Sharp Corporation, IoT Communication B.U.
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 City,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	
Worst case	: CE worst case	: Config 3
	Below / Above RE worst case	: Config 2
Highest operate description	: 2480 MHz	
Battery	: Model No.: UBATIA283AFN2	
	Supplier: SCUD(FUJIAN) Elect	tronics Co., Ltd.

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QD43	Config 1	Config2	Config 3	
Applicable standard		FCC 15B		
Accessories	EUT + AC Adaptor(AC ADAPTER 06) +USB Cable +PHF	EUT +USB Cable	EUT + AC Adaptor(AC ADAPTER 06) +USB Cable +PHF	
Main function	Speech	Data Link	Camera	
Additional function	BT+WiFI +NFC			
Description				
radiated emission	GSM 850/1900 WCDMA B5 LTE B5/B12/B17	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 B5 LTE B5/B12/B17	Data R/W	MP3/ ;REC mode (Front/Back) ;play REC	

1.4 Operation Procedure

Config 1

- 1. Let EUT connect to Adapter & USB Cable & Earphone and turn it on.
- 2. Executed BT & WIFI & GPS & NFC & GSM 850/1900 or WCDMA B5 or LTE B5/B12/B17 Link.
- 3. Started the test.

Config 2

- 1. Let EUT connect to Earphone & USB Cable and NB Link.
- 2. Executed BT & WIFI & GPS & NFC Link.
- 3. NB and mobile phone USB data transmission (Reader / Write)
- 4. Started the test.

Config 3

- 1. Let EUT connect to Adapter & USB Cable & Earphone and turn it on.
- 2. Turned on front / rear camera to record / play the video or play music.
- 3. Executed BT & WIFI & GPS & NFC Link.
- 4. Started the test.

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1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
SIM Card	R&S	CMW-Z05	8952530076180167200
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	DELL	Latitude E5430	COVZYW1
Mouse	DELL	MS111-T	CN-OKW2YH-71616-345-OL7T
Printer	HP	VCVRA-1004	CN33K19J3F
Micro SD	Transcend	Micro SDHC (Class4)	N/A
Adapter	HOSIDEN	AC ADAPTER 06	N/A
Earphone	SONY	MDR-EX15AP	N/A

Support Equipment Used in Tested Cable

Cable Type	Core	Length	Shielding/Non-shielding
USB cable	N/A	0.95m	Shielding
Earphone cable	N/A	1.25m	Non-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
N/A	N/A	N/A	N/A

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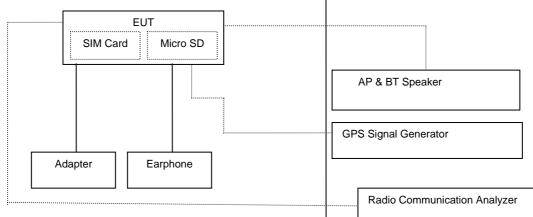
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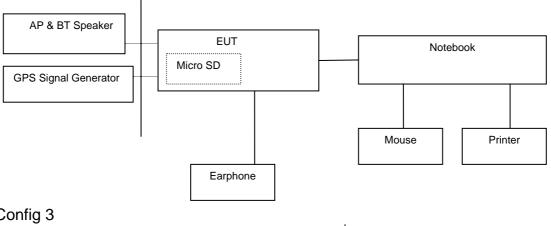


1.8 Test Set-Up Configuration

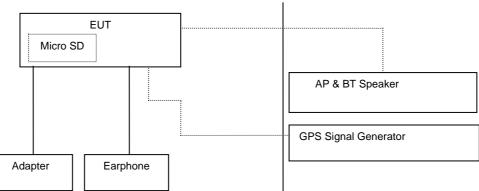
Config 1



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

1.11 Summary of Results

	Highes	t Emissio	n				
Standard Test Type Result Phase/Pol. Frequency(MHz) Margin(dE							
	Conducted Emission		Line	0.1540	-10.54 (QP)		
FCC Part 15 Subpart B Class B	Conducted Emission	PASS	Neutral	0.1540	-10.66 (QP)		
Class D	Radiated Emission	PASS	Ver.	47.1100	-5.30 (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	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

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 (dBu	uV/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	uV/m) (at 3m)	Class B (dB	uV/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

SC	S Conducted_Emi	ssion HWAYA Conducted I	Room No.A_E	MC	
EQUIPMENT TYPE Manufacturer		Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101311	2017/6/23	2018/6/22
Coaxial Cables	EMC Instruments Corp	EMCRG58-BM-BM-3000	160812	2017/8/30	2018/8/29
LISN	SCHWARZBECK	NSLK 8127	8127-648	2017/6/18	2018/6/17
Pulse Limiter	Narda S.T.S.	PMM PL01	1110X30602	2017/8/12	2018/8/11
LISN	FCC	FCC-LISN-50/250-25-2- 01	4034	2017/3/19	2018/3/18
Universal Digital Radio Communication Tester	R&S	CMU 200	122498	2016/11/9	2017/11/8
Wideband Radio Communication Tester	R&S	CMW 500	152303	2017/2/23	2018/2/22
Test S/W	Farad	EZ-EMC	Ver. SGS- 03A2	N.C.R.	N.C.R.
SGS Taiwan LTD. Elect No.2, Keji 1st Rd., Guisl Measurement Uncertain Expanded uncertainty (ł	nan Dist., Taoyuan ty of Conducted En	City 333, Taiwan (R.O.C.)			

2.4.2 Operating Environment

Temperature : 25 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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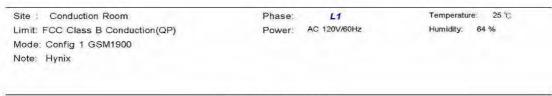
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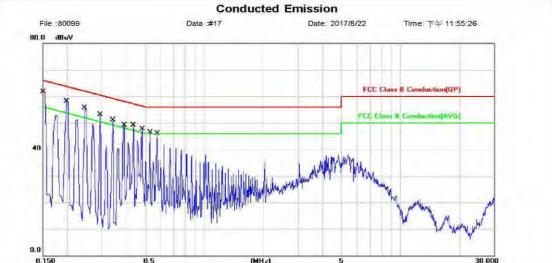
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2.4.4 Measurement Data:

Config_1_L





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	54.80	0.34	55.14	66.00	-10.86	QP	
2		0.1500	32.60	0.34	32.94	56.00	-23.06	AVG	
3		0.1980	50.80	0.33	51,13	63.69	-12.56	QP	
4		0.1980	27.50	0.33	27.83	53,69	-25.86	AVG	
5	2	0.2460	47.60	0.33	47.93	61.89	-13.96	QP	
6	8	0.2460	24.50	0.33	24.83	51,89	-27.06	AVG	
7		0.2940	44.50	0.33	44.83	60.41	-15.58	QP	
8		0.2940	19.50	0.33	19.83	50.41	-30.58	AVG	
9		0.3420	43.00	0.34	43.34	59.15	-15.81	QP	
10		0.3420	17.70	0.34	18.04	49,15	-31.11	AVG	
11		0.3900	41.50	0.34	41.84	58.06	-16.22	QP	
12		0.3900	23.40	0.34	23.74	48.06	-24.32	AVG	
13		0.4340	42.00	0.34	42.34	57.18	-14.84	QP	

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

File :80099\Data :#17

Page: 1

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Config_1_L2

No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
14	0.4340	27.20	0.34	27.54	47,18	-19.64	AVG		
15	0.4820	41.20	0.34	41.54	56.30	-14.76	QP		
16	0.4820	26.70	0.34	27.04	46.30	-19.26	AVG		
17	0.5300	38.30	0.35	38.65	56.00	-17.35	QP		
18	0.5300	23.80	0.35	24.15	46.00	-21.85	AVG		
19	0.5780	35.70	0,35	36.05	56.00	-19.95	QP		
20	0.5780	22.60	0.35	22.95	46.00	-23.05	AVG		

*:Maximum data x:Over limit Lover margin

File :80099\Data :#17

Page: 2

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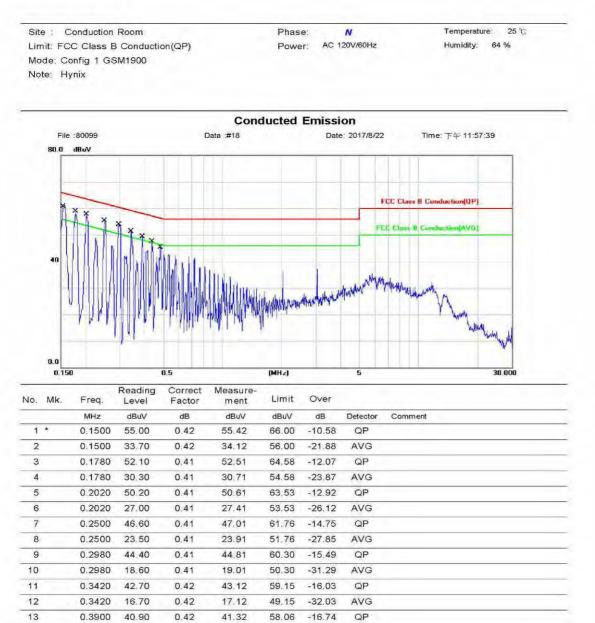
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Config_1_N



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

File :80099\Data :#18

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Config_1_N2

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
14	-	0.3900	24.00	0.42	24.42	48.06	-23.64	AVG		
15		0.4380	40.30	0.42	40.72	57.10	-16.38	QP		
16		0.4380	24.20	0.42	24.62	47.10	-22.48	AVG		
17	1	0.4860	40.30	0.42	40.72	56.24	-15.52	QP		
18		0.4860	25.50	0.42	25.92	46.24	-20.32	AVG		

*:Maximum data x:Over limit Lover margin

File :80099\Data :#18

Page: 2

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Config_2_L

Temperature: 25 °C Conduction Room Phase: Site : N Limit: FCC Class B Conduction(QP) From System Humidity: 64 % Power: Mode: Config 2 Note: Hynix , AC 120V/60Hz , Internal Sotrage Write



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1540	43.30	0.42	43.72	65.78	-22.06	QP	
2		0.1540	24.40	0.42	24.82	55.78	-30.96	AVG	
3		0.1700	47.90	0.42	48.32	64.96	-16.64	QP	
4		0.1700	34.30	0.42	34,72	54.96	-20.24	AVG	
5		0.1820	38.70	0.41	39.11	64.39	-25.28	QP	
6	1	0.1820	21.70	0.41	22.11	54.39	-32.28	AVG	
7		0.2300	35.90	0.41	36.31	62.45	-26.14	QP	
8		0.2300	20.60	0.41	21.01	52.45	-31.44	AVG	
9		0.4420	31.30	0.42	31.72	57.02	-25.30	QP	
10		0.4420	16.20	0.42	16.62	47.02	-30.40	AVG	
11		24.0780	26.80	0.87	27.67	60.00	-32.33	QP	
12		24.0780	20.90	0.87	21.77	50.00	-28.23	AVG	

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

File :80099\Data :#37

Page: 1

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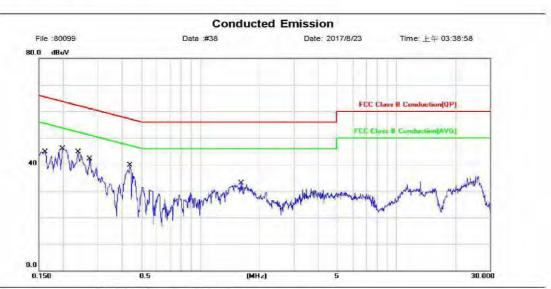
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Config_2_N

Temperature: 25 °C Conduction Room Phase: Site : L1 Limit: FCC Class B Conduction(QP) From System Humidity: 64 % Power: Mode: Config 2 Note: Hynix , AC 120V/60Hz , Internal Sotrage Write



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	1	0.1620	42.00	0.34	42.34	65.36	-23.02	QP	
2		0.1620	28.70	0.34	29.04	55.36	-26.32	AVG	
3		0.1980	38.30	0.33	38.63	63.69	-25.06	QP	
4		0.1980	22.00	0.33	22.33	53,69	-31.36	AVG	
5		0.2380	38.60	0.33	38.93	62.17	-23.24	QP	
6		0.2380	24.30	0.33	24.63	52.17	-27.54	AVG	
7		0.2740	37.40	0.33	37.73	61.00	-23.27	QP	
8		0.2740	25.80	0.33	26.13	51.00	-24.87	AVG	
9	*	0.4380	35.00	0.34	35.34	57.10	-21.76	QP	
10	•	0.4380	20.70	0.34	21.04	47.10	-26.06	AVG	
11		1.6260	27.90	0.41	28.31	56.00	-27.69	QP	
12		1.6260	20.70	0.41	21.11	46.00	-24.89	AVG	

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

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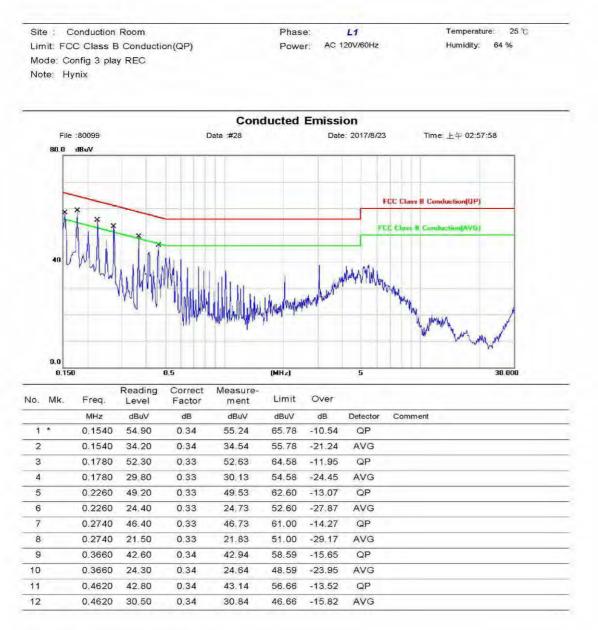
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Config_3_L



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

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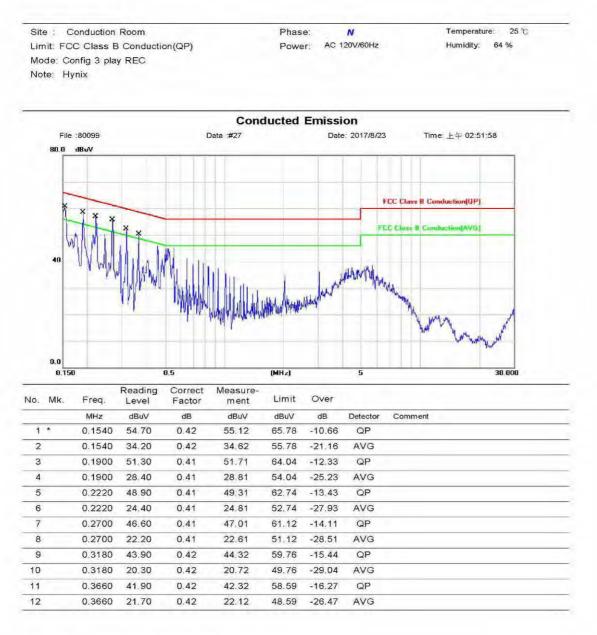
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Config_3_N



*:Maximum data x:Over limit I: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						
			Number	Date	Due						
EMI Test Receiver	R&S	ESCI 7	100924	2016/9/30	2017/9/29						
EMI Test Receiver	R&S	ESCI 3	101343	2016/12/21	2017/12/20						
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	2016/9/22	2017/9/21						
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	2016/9/22	2017/9/21						
Pre Amplifier	EMC Instruments Corp.	EMC330	980178	2017/3/31	2018/3/30						
Pre Amplifier	EMC Instruments Corp.	EMC330	980179	2017/3/31	2018/3/30						
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM	150917	2016/9/18	2017/9/17						
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM	150919	2016/9/18	2017/9/17						
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM	150820	2016/9/18	2017/9/17						
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM	150918	2016/9/18	2017/9/17						
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM	150821	2016/9/18	2017/9/17						
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM	150822	2016/9/18	2017/9/17						
Universal Digital Radio Communication Tester	R&S	CMU 200	122498	2016/11/9	2017/11/8						
Wideband Radio Communication Tester	R&S	CMW 500	152303	2017/2/23	2018/2/22						
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	2016/12/31	2017/12/31						
Test S/W	Farad	EZ-EMC	Ver. SGS- 03A2	N.C.R.	N.C.R.						
No.2, Keji 1st Rd., Guishan	GGS Taiwan LTD. Electronics & Communication Laboratory Io.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Ileasurement Uncertainty of Radiated Emission										

Expanded uncertainty of radiated emission is 4.09 dB. (30MHz ~ 1000MHz)

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Above 1GHz

SGS Radiated_Above_1GHz HWAYA 966B_EMC											
	SGS Radiated_Ab	ove_1GHz HVVA	YA 966B_EMC	A							
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration	Calibration						
				Date	Due						
Spectrum Analyzer	R&S	FSV 40	101419	2017/3/1	2018/2/28						
EMI Test Receiver	R&S	ESR 7	101507	2017/5/27	2018/5/26						
Horn Antenna	SCHWARZBEC K	BBHA9120D	BBHA9120D67 3	2016/10/14	2017/10/13						
Pre Amplifier	R&S	SCU-18	100203	2017/3/26	2018/3/26						
Coaxial Cable	EMC Instruments	EMC104-SM- SM	140923	2016/9/30	2017/9/29						
Coaxial Cable	EMC Instruments	EMC104-SM- SM	140925	2016/9/30	2017/9/29						
Coaxial Cable	EMC Instruments	EMC104-SM- SM	140927	2016/9/30	2017/9/29						
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2152/2	2017/6/5	2018/6/4						
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2017/6/5	2018/6/4						
Universal Digital Radio			122498	2016/11/9	2017/11/8						
Communication Tester	Rad	R&S CMU 200		2010/11/9	2017/11/0						
Wideband Radio	R&S	CMW 500	152303	0047/0/00	2018/2/22						
Communication Tester	Raj		152303	2017/2/23	2016/2/22						
Controller	MF-7802	N/A	N/A	N.C.R.	N.C.R.						
Antenna Master	N/A	N/A	N/A	N.C.R.	N.C.R.						
Turn Table	N/A	N/A	N/A	N.C.R.	N.C.R.						
Site VSWR	SGS	966 Chamber B	SAC-B	2016/10/8	2017/10/7						
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 D	ist., Taoyuan City	333, Taiwan (R.C).C.)								
Measurement Uncertainty of F	Radiated Emission										
Expanded uncertainty (k=2) o	f radiated emissio	n measurement is	s 5.06 dB. (1-6G⊦	lz)							
Expanded uncertainty (k=2) o	f radiated emissior	n measurement is	s 5.15 dB. (6-18G	iHz)							

2.5.2 Operating Environment

Temperature : 25 degree CHumidity : 65 %RHAtmospheric 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

3

Reading

Correct

Measure-

Below 1GHz

Config_1_H

Site SGS 10m Chamber Polarization: Horizontal Temperature: 27 °C Limit: CISPR22 Class B 10M Radiation Power: AC 120V/60Hz Humidity: 64 % Mode: Config 1 Distance: Note: Sample 2 LTE B5 Link **Radiated Emission** File :80099 Data :#22 Date: 2017/8/29 Time: 1:4+ 07:42:41 80.0 dBuV/m Limit1: Margin 40 5% ŝ

30 000	127.00	224.00	321.00	418.00	515.00	612.00	709.00	806.00	1000.00	MHz
30,000	121.00	224.00	321.00	410.00	010.00	012.00	103.00	000.00	1000.00	mina

No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		32.2400	26.62	-12.72	13.90	30.00	-16.10	QP	
2		47.9600	26.90	-11.40	15.50	30.00	-14.50	QP	
3		146.4600	25.75	-12.05	13.70	30.00	-16 30	QP	
4		923.5900	25.08	1.32	26 40	37.00	-10.60	QP	
5		943,9800	25.04	1.76	26.80	37.00	-10.20	QP	
6	*	972,1100	25.05	1.85	26.90	37.00	-10.10	QP	

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

File :80099\Data :#22

Page: 1

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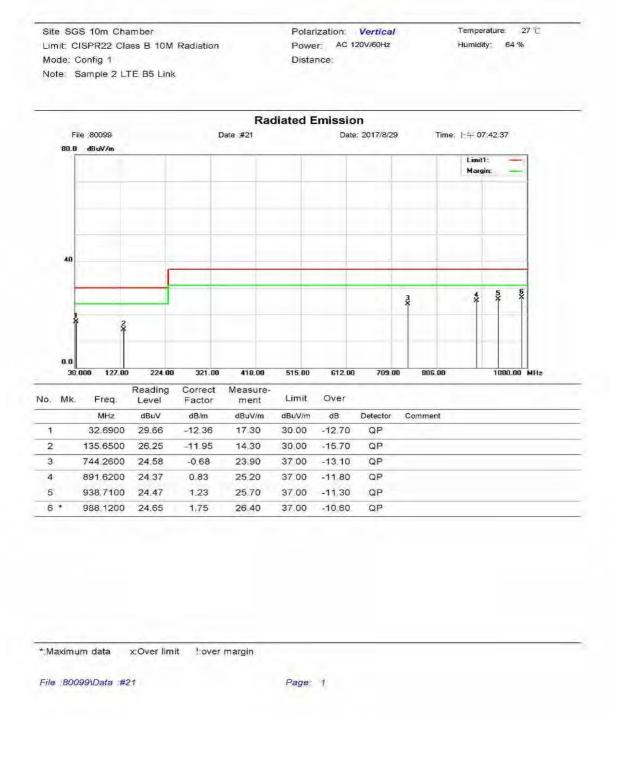
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Config_1_V



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Config_2_H

Temperature: 25 1 Site SGS 10m Chamber Polarization: Horizontal Limit: CISPR22 Class B 10M Radiation From System Humidity: 65 % Power: Mode: Config 2 Distance: Note: Sample 2 Internal shared sorage Write **Radiated Emission** File :80099 Data :#18 Date: 2017/8/24 Time: 1-+ 07:33:41 80.0 dBuV/m Limit1: Margin 40 6 X Xx 5 X 4 0.0 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz Reading Correct Measure Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB/m dBuV/m dBuV/m dB Detector Comment 1 55.3800 27.04 -11.84 15.20 30.00 -14 80 QP 2 150.1800 27.40 -11.90 15.50 30.00 -14.50 QP 3 165,9000 30.18 -11 78 18.40 30.00 -11.60 QP 4 204.8600 30.34 -14.94 15.40 30.00 -14.60 QP 5 224,8300 32.20 -14.70 17.50 30.00 -12.50 QP 6 * 955,7000 24.72 1.88 26.60 37.00 -10.40 QP *:Maximum data x:Over limit !:over margin File :80099\Data :#18 Page: 1

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Config_2_V

Temperature: 25 1 Site SGS 10m Chamber Polarization: Vertical Limit: CISPR22 Class B 10M Radiation Power: From System Humidity: 65 % Mode: Config 2 Distance: Note: Sample 2 Internal shared sorage Write **Radiated Emission** File :80099 Data #17 Date: 2017/8/24 Time: 1-+ 07:33:38 80.0 dBuV/m Limit1: Margin 40 4 56 3 0.0 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz Reading Correct Measure-Limit Over No. Mk. Frea Level Factor ment MHz dBuV dB/m dBuV/m dBuV/m dB Detector Comment 1 * 47.1100 35.73 -11.03 24.70 30.00 -5.30 QP 2 140.7800 27.97 -11.57 16.40 30.00 -13.60 QP 3 172.0600 32.27 -12.17 20.10 30.00 -9.90 QP 37.00 4 958.6300 24.70 1.40 26 10 -10.90 QP 5 977.9300 24.77 1.63 26.40 37.00 -10.60 QP 6 993.0700 24.79 1.81 26.60 37.00 -10.40 QP *:Maximum data x:Over limit !:over margin File :80099\Data :#17 Page: 1

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Config_3_H

Limit: C Mode: I	SS 10m Cha CISPR22 Cla Config 3 Sample 2 RI	ss B 10M	Radiation		Polar Powe Dista	er: AC 1	Horizon 20V/60Hz	tal	Tempera Humidity		ït
				Rac	liated E	missic	'n				
	ile :80099		C)ata :#20		Date	: 2017/8/24	Time	: I÷+ 07:	42:57	
80.0	dBuV/m								Limit1: Margin		
40		Ē	-	-			-			-	
		-				-			* *	5 6×	
					_		-	_	ĨĨ		
	*	XX						1.0			
0.0											
	.000 127.00	224.00	321.00	418.00	515.00	612.00	709.00	906.00		1000.00	Hz
. Mk	Free	Reading	Correct	Measure-	Limit	Over					
5. IVIK.	Freq. MHz	dBuV	Factor dB/m	ment dBuV/m	dBuV/m	dB	Detector	Comment			
1	54,4900	26.06	-11.76	14.30	30.00	-15.70	QP	Second sea			
2	166.9500	25,71	-11.81	13.90	30.00	-16.10	QP				
3	853.7300	25.05	0.15	25.20	37.00	-11.80	QP				
4	889.1200	24.95	0.65	25.60	37.00	-11.40	QP				
5	938.1400	25.26	1.64	26.90	37.00	-10.10	QP				
6 *	966.7600	25.23	1.87	27.10	37.00	-9.90	QP				
Maxim	um data	x:Over limi	t !:over	margin							
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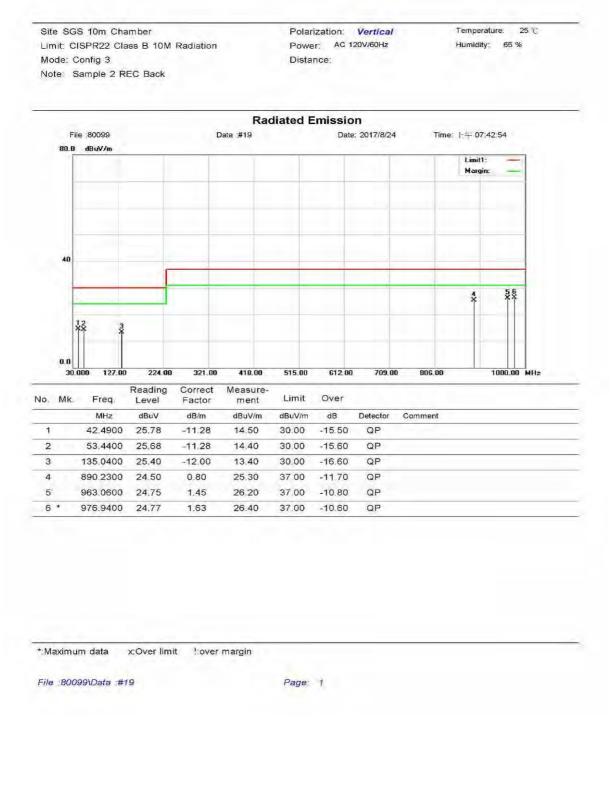
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Config_3_V



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Above 1GHz

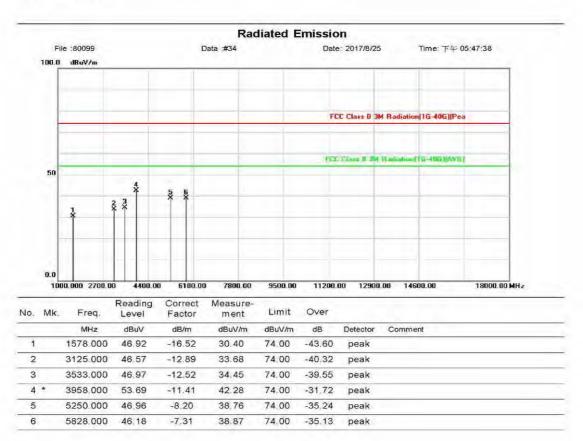
Config_1_H

 Site SGS 966 Chamber B
 Polarization: Horizontal
 Temperature:
 22 %

 Limit: FCC Class B 3M Radiation(1G-40G)(Pea
 Power:
 AC 120V/60Hz
 Humidity:
 68 %

 Mode: Config_1
 Distance:

 Note: LTE B5 Link
 Control = 100 Co



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

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File :80099\Data :#34
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Page: 1

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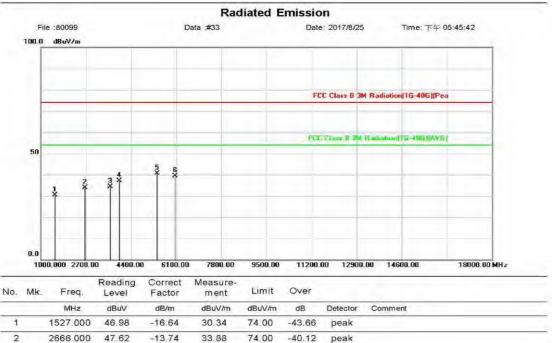
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Config_1_V

Temperature: 22 °C Site SGS 966 Chamber B Polarization: Vertical Limit: FCC Class B 3M Radiation(1G-40G)(Pea AC 120V/60Hz Humidity: 68 % Power: Mode: Config_1 Distance Note: LTE B5 Link



4	2000.000	41.02	-13.74	33.00	74.00	-40.12	реак	
3	3618.000	46.79	-12.29	34.50	74.00	-39.50	peak	-
4	3958,000	48.65	-11.41	37.24	74,00	-36.76	peak	
5 *	5386.000	48.61	-8.04	40.57	74.00	-33,43	peak	-
6	6066.000	46.00	-6.74	39.26	74.00	-34,74	peak	-

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

File :80099\Data :#33

Page: 1

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22 °C

Temperature:

Humidity: 68 %

Config_2_H

Site SGS 966 Chamber B Polarization: Horizontal Limit: FCC Class B 3M Radiation(1G-40G)(Pea From System Power: Mode: Config_2 Distance Note: Internal shared sorage Write

Radiated Emission File :80099 Data :#32 Date: 2017/8/25 Time: 下午 04:35:54 100.0 dBuV/m FCC Class B 3M Radiation[1G-406][Pea fit i 4 11 50 S 0.0 1000.000 2708.00 6100.00 7800.00 9500.00 11200.00 12900.00 14600.00 18000.00 MHz 4400.0 Reading Correct Measure Over Freq. Limit No. Mk. Level Factor ment MHz dBuV dB/m dBuV/m dBuV/m dB Detector Comment 1 1187.000 49.33 -17.82 31.51 74.00 -42.49 peak 2 2394.000 52.52 -14.42 38.10 74.00 -35.90 peak 3 3176.000 50.51 -12.86 37.65 74.00 -36.35 peak 37.01 4 4111.000 48.06 -11.05 74.00 -36.99 peak

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

47.35

47.23

-8.18

-7.40

39.17

39.83

74.00

74.00

-34.83

-34.17

peak

peak

File :80099\Data :#32

5267 000

5777.000

5

6

Page: 1

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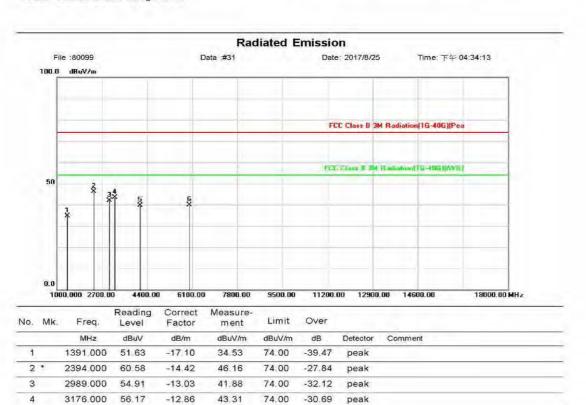




22 °C

Config_2_V

Site SGS 966 Chamber B Temperature: Polarization: Vertical Limit: FCC Class B 3M Radiation(1G-40G)(Pea From System Humidity: 68 % Power: Mode: Config_2 Distance Note: Internal shared sorage Write



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

50.58

46.90

-11.02

-7.00

39.56

39.90

74.00

74.00

-34.44

-34.10

peak

peak

File :80099\Data :#31

4128.000

5998.000

5

6

Page: 1

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Config_3_H

22 ℃ Site SGS 966 Chamber B Temperature: Polarization: Horizontal Limit: FCC Class B 3M Radiation(1G-40G)(Pea AC 120V/60Hz Humidity: 68 % Power: Mode: Config_3 Distance Note: REC Back **Radiated Emission** File :80099 Data :#36 Date: 2017/8/25 Time: 下午 07:05:39 100.0 dBuV/m FCC Class B 3M Radiation[1G-406][Pea fit i 4 11 50 3 0.0 1000.000 2708.00 6100.00 7800.00 9500.00 11200.00 12900.00 14600.00 18000.00 MHz Reading Correct Measure Over Freq. Limit No. Mk. Level Factor ment MHz dBuV dB/m dBuV/m dBuV/m dB Detector Comment 1 1714.000 47.52 -16.23 31.29 74.00 -42.71 peak 2 2666.000 47.44 -13.74 33.70 74.00 -40.30 peak 3 3584.000 46.86 -12.39 34.47 74.00 -39.53 peak -11.05 36.75 4 4111.000 47.80 74.00 -37.25 peak 5 4876,000 46.78 -8.91 37.87 74.00 -36.13 peak 40.56 6 5777.000 47.96 -7.40 74.00 -33.44 peak

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

File :80099\Data :#36

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134號 Taiwan Ltd

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Config_3_V

22 °C Site SGS 966 Chamber B Temperature: Polarization: Vertical Limit: FCC Class B 3M Radiation(1G-40G)(Pea AC 120V/60Hz Humidity: 68 % Power: Mode: Config_3 Distance Note: REC Back **Radiated Emission** File :80099 Data :#35 Date: 2017/8/25 Time: 下午 07:03:34 100.0 dBuV/m FCC Class B 3M Radiation[1G-40G][Pea fit i 4 11 50 5 ş X 8 0.0 1000.000 2708.00 6100.00 7800.00 9500.00 11200.00 12900.00 14600.00 18000.00 MHz 4400.0 Reading Correct Measure Over Freq. Limit No. Mk. Level Factor ment MHz dBuV dB/m dBuV/m dBuV/m dB Detector Comment 1 2241.000 47.00 -14.89 32.11 74.00 -41.89 peak 2 3057.000 46.98 -12.96 34.02 74.00 -39.98 peak 3 3567.000 46.99 -12.42 34.57 74.00 -39.43 peak 47.27 -11.02 36.25 -37.75 4 4128.000 74.00 peak 5 5488.000 47.99 -7.91 40.08 74.00 -33.92 peak 6 * 5828.000 48.34 -7.31 41.03 74.00 -32.97 peak

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

File :80099\Data :#35

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