

FCC CERTIFICATION REPORT

Test Report No.	: E1/2017/A0110
Applicant	: SHARP CORPORATION, IoT Communication BU
Address	: 2-13-1, Hachihonmatsu-Iida, Higashi-hiroshima-shi, Hiroshima, 739-0192, Japan
Manufacturer	: Sharp Corporation
Address	: 1 Takumi-cho, Sakai-ku, Sakai City,Osaka 590-8522,Japan
Equipment Unde	er Test (EUT) :
Product Name	: Smart phone
Standards	: FCC Part 15:2017, Subpart B, Class B
FCC Designation	n Numbers : 916890 / TW1087
Date of Receipt	: Oct. 13, 2017
Date of Test	: Oct. 13 ~ Nov. 03, 2017
Date of Issue	: Nov. 22, 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:

Approved By

Ivan Hsieh (Engineer) Eddy Cheng Eddy Cheng (Asst. Supervisor)



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Date

Date

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Nov. 22, 2017

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Revision History

Report Number	Revision	Description	Issue Date
E1/2017/A0110	Rev.00	Initial creation of document	Nov. 22, 2017

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1. General Information

1.1 Applicant & Manufacturer Information

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Address of Applicant	: 2-13-1, Hachihonmatsu-Iida, 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, Below RE worst case	: Config 1
	Above RE worst case	: Config 2
Highest operate description	: 2200 MHz	
Adapter	: Model No.: XN-2QC25	

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SK71	Config 1	Config2	Config 3		
Applicable standard	FCC 15B				
Accessories	EUT + AC Adaptor (XN-2QC25) +USB Cable +EARPHONE	EUT +USB Cable(to PC) ⊭EARPHONE	EUT + AC Adaptor (XN-2QC25) +USB Cable		
Main function	Speech	Data Link	Audio		
Additional function	BT+WiFI Worst(5G/2.4G)+GPS+NFC				
Description					
radiated emission	GSM 850/1900 WCDMA B5 LTE B17	Data Read/Write +CAMERA(Front)	MP3 + CAMERA(Rear)		
conducted emission (DC Power)	NA	NA	NA		
conducted emission (AC Power)	GSM 850/1900 WCDMA B5 LTE B17	Data Read/Write +CAMERA(Front)	MP3 + CAMERA(Rear)		

1.4 Operation Procedure

Config 1

- 1. Let EUT install the SIM Card & SD Card, Insert EARPHONE.
- 2. Let USB Port of EUT connect to the Adapter.
- 3. Set the BT Speaker to pair with EUT.
- 4. Set WiFi Worst(5G/2.4G) to obtain IP Address and execute Ping IP Address.
- 5. Turned on the GPS function & NFC function.
- 6. Set up the base station and test GSM / WCDMA / LTE connection.
- 7. Started the test.

Config 2

- 1. Let EUT install the SIM Card & SD Card, Insert EARPHONE.
- 2. Let USB Port of EUT connect to the PC and execute Data R/W.
- 3. Set the BT Speaker to pair with EUT.
- 4. Set WiFi Worst(5G/2.4G) to obtain IP Address and execute Ping IP Address.
- 5. Turned on the GPS function & NFC function.
- 6. Played the MP3 music. Turn on LED and Play Camera (Front)
- 7. Started the test.

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Config 3

- 1. Let EUT install the SIM Card & SD Card.
- 2. Let USB Port of EUT connect to the Adapter.
- 3. Set the BT Speaker to pair with EUT.
- 4. Set WiFi Worst(5G/2.4G) to obtain IP Address and execute Ping IP Address.
- 5. Turned on the GPS function & NFC function.
- 6. Played the MP3 music. Turn on LED and Play Camera (Rear)
- 7. Started the test.

1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Notebook (EMI)	DELL	Latitude E5430	C0VZYW1
MOUSE	DELL	MS111-T	CN-OKW2YH-71616-345-OL7T
Printer	HP	VCVRA-1004	CN33K19J3F
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
Micro SD	Energizer	16GB SDHC	CG16G1642HVLN003058828

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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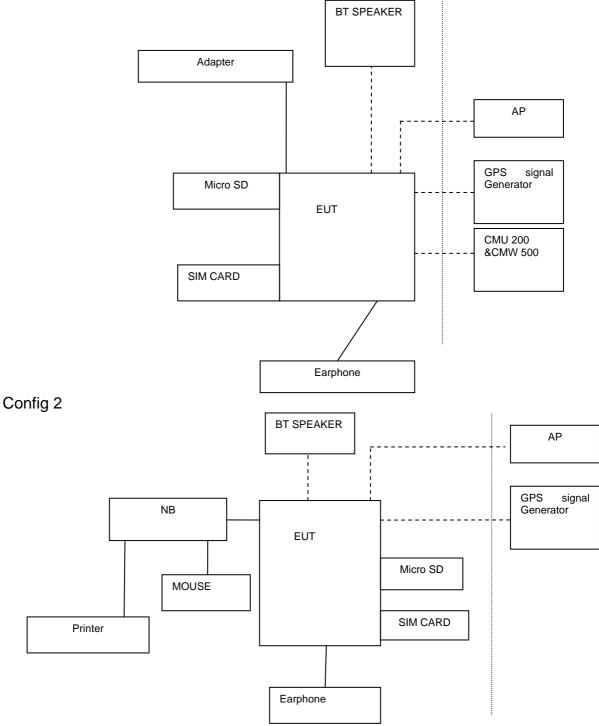
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1.8 Test Set-Up Configuration

Config 1



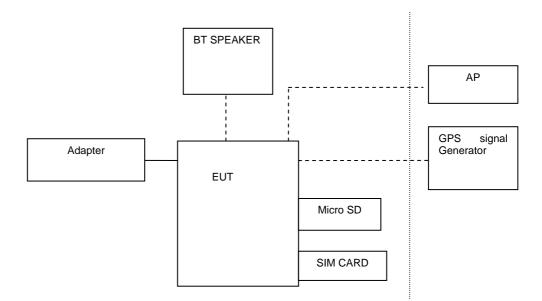
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1.9 Measurement Procedure

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, Subp

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)		
FOC Dart 15 Submart	BConducted Emission	PASS	Line	0.4980	-13.19 (QP)		
FCC Part 15 Subpart E Class B	Conducted Emission	PASS	Neutral	0.3780	-13.80 (AVG)		
Ciass D	Radiated Emission	PASS	Ver.	30.0000	-10.80 (QP)		

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2. EMISSION

2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

FCC Part 15, Subpart B:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table Highest frequency generated or Upper frequency of measurement used in the device or on which the range (MHz) device operates or tunes (MHz)

Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or
	40 GHz, whichever is lower

2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

FCC Part 15, Subpart B/CISPR 22:

FREQUENCY	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 (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	uV/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 Conducted_Emission HWAYA Conducted Room No.A_EMC									
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration	Calibration				
EMI Test Receiver	R&S	ESCI 3	101311	Date 2017/6/23	Due 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	Schwarzbeck	NSLK 8128	NSLK8128-300	2017/9/4	2018/9/3				
Universal Digital Radio Communication Tester	RAS	CMU 200	119988	2017/3/7	2018/3/6				
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.				
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Measurement Uncertainty of Conducted Emission Expanded uncertainty (K=2) of conducted emission is 2.25 dB

2.4.2 Operating Environment

Temperature : 25 degree C

Humidity : 59 %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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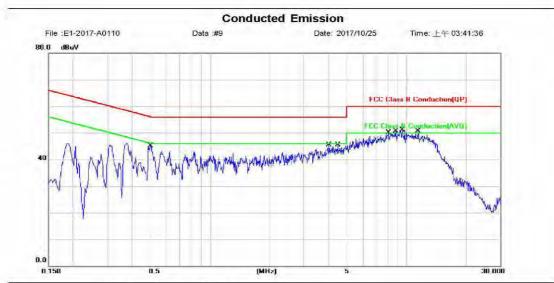
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2.4.4 Measurement Data:

Config_1_L

Temperature: 25 °C Site : Conduction Room Phase: 11 AC 120V/60Hz Humidity: 59 % Limit: FCC Class B Conduction(QP) Power: Mode: Config_1 Note: LTE_B17



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.4980	42.80	0.04	42.84	56.03	-13.19	QP	
2		0.4980	30.60	0.04	30.64	46.03	-15.39	AVG	
3	1	4.0460	37.20	0.38	37.58	56.00	-18.42	QP	
4		4.0460	27.20	0.38	27.58	46.00	-18.42	AVG	
5	5	4.4740	38.00	0.40	38.40	56.00	-17.60	QP	
6	-	4.4740	28.90	0.40	29.30	46.00	-16.70	AVG	
7		8.0980	42.30	0.58	42.88	60.00	-17.12	QP	
8		8.0980	30.70	0.58	31.28	50.00	-18.72	AVG	
9	L.	8.8100	41.10	0.63	41.73	60.00	-18.27	QP	
10		8.8100	30.40	0.63	31.03	50.00	-18.97	AVG	
11		9,5140	41.50	0.66	42.16	60.00	-17.84	QP	
12	9	9.5140	30.40	0.66	31.06	50.00	-18.94	AVG	
13		11.4860	41.40	0.72	42.12	60.00	-17.88	QP	

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

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Page: 1

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No. M	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
14	1.4	11.4860	30.30	0.72	31.02	50.00	-18.98	AVG	

*:Maximum data x:Over limit Lover margin

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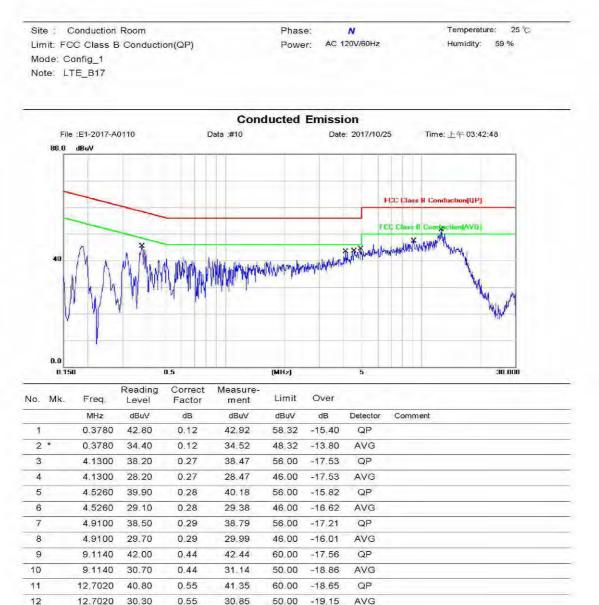
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Config_1_N



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

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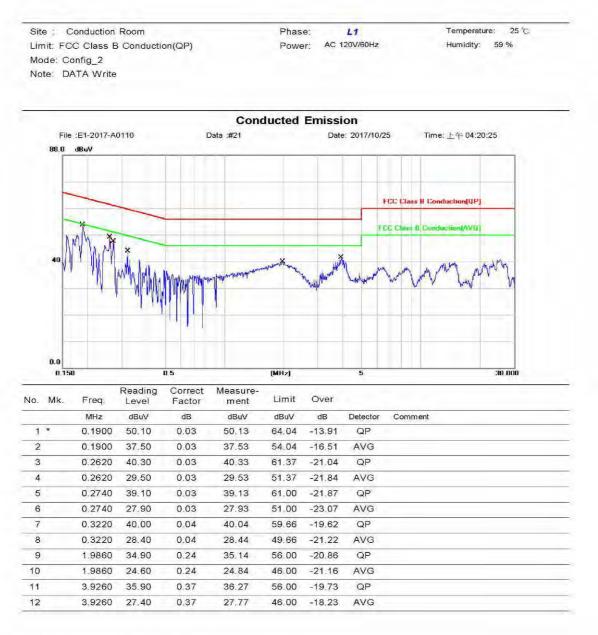
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Config_2_L



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

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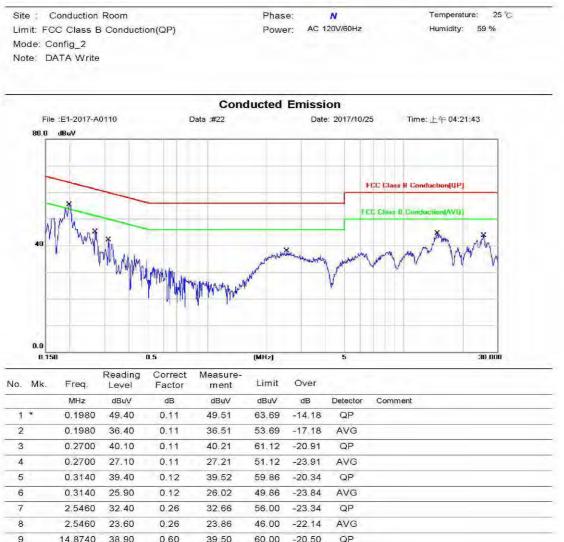
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Config_2_N



		ACCES NO.	0.000	and the second second		and the second s		
8	2.5460	23.60	0.26	23.86	46.00	-22.14	AVG	
9	14.8740	38.90	0.60	39.50	60.00	-20.50	QP	
10	14.8740	33.20	0.60	33.80	50.00	-16.20	AVG	
11	25.5980	39,90	0.87	40.77	60.00	-19.23	QP	
12	25,5980	34.50	0.87	35.37	50.00	-14.63	AVG	

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

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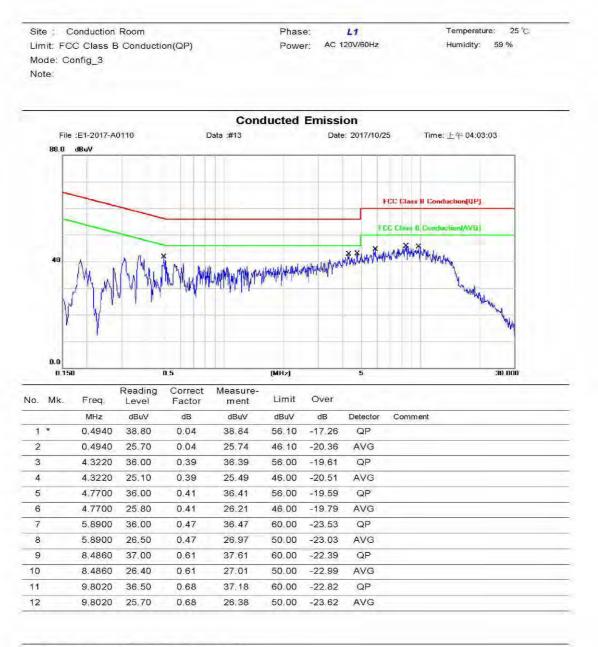
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Config_3_L



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

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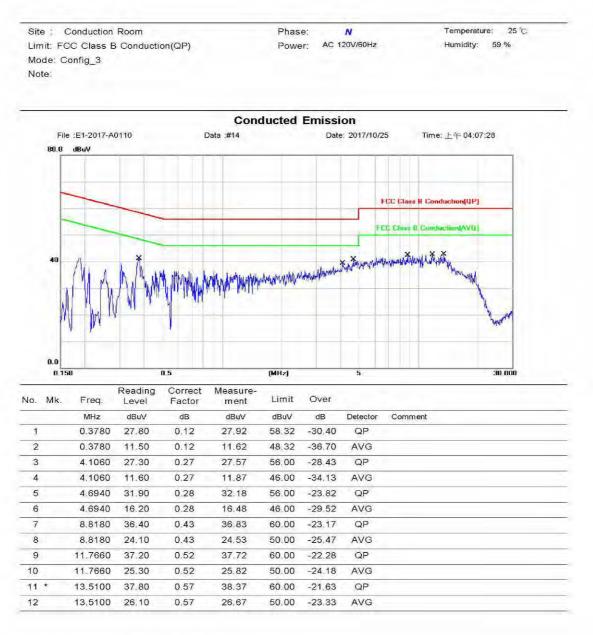
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Config_3_N



*: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				
EQUIFMENT TIFE			Number	Date	Due				
EMI Test Receiver	R&S	ESCI 7	100950	2016/12/7	2017/12/6				
EMI Test Receiver	R&S	ESCI 3	101343	2016/12/21	2017/12/20				
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	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	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	122498	2016/11/9	2017/11/8				
Wideband Radio Communication Tester	Wideband Radio		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.				
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 of radiated emission is 4.09 dB. (30MHz ~ 1000MHz)

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Above 1GHz

SGS Radiated Above 1GHz HWAYA 966A EMC											
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration	Calibration						
	F 0	501/ 40	404440	Date	Due						
Spectrum Analyzer	R&S	FSV 40	101419	2017/3/1	2018/2/28						
EMI Test Receiver	R&S	ESR 7	101459	2017/2/17	2018/2/16						
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D67 3	2017/10/16	2018/10/15						
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	2016/12/12	2017/12/11						
Pre Amplifier	EMC Instruments Corp.	EMC012645B	980216	2017/4/25	2018/4/24						
Pre Amplifier	EMC Instruments Corp.	EMC184045B	980135	2017/10/27	2018/10/26						
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	2017/4/23	2018/4/22						
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	30255/4PEA	2017/4/23	2018/4/22						
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2017/4/23	2018/4/22						
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 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						
Radio Communication Analyzer	Anritsu	MT8820C	6201465315	2016/12/29	2017/12/28						
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	2017/1/12	2018/1/11						
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 (k=2) of radiated emission measurement is 5.19 dB. (18-26GHz) Expanded uncertainty (k=2) of radiated emission measurement is 5.14 dB. (26-40GHz)											

2.5.2 Operating Environment

Temperature : 23 degree C

Humidity: 73 %RH

Atmospheric Pressure : 996 mBar

2.5.3 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain Measurement Level = Reading Level + Correction Factor Over (Margin) = Measurement Level – Limit

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2.5.4 Measurement Data

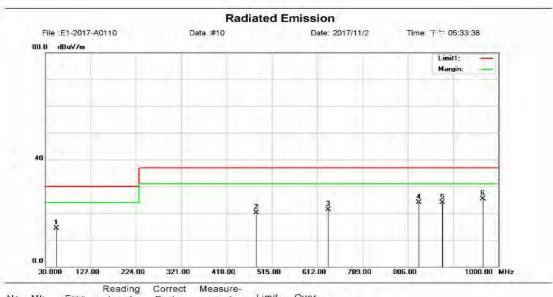
Below 1GHz

Config_1_H

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

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

Temperature: 23 °C Humidity: 73 %



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		53.2800	25.67	-11.37	14.30	30.00	-15.70	QP		
2		482.0200	25.66	-5.48	20.18	37.00	-16.82	QP		
3		635,2800	23.65	-2.25	21.40	37.00	-15.60	QP		
4		830.2500	23.93	-0.02	23.91	37.00	-13.09	QP		
5		880.6900	23.49	0.41	23.90	37.00	-13,10	QP		
6	*	967.0200	23.64	1.66	25.30	37.00	-11.70	QP		

*:Maximum data x:Over limit Lover margin

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Config_1_V

Site SGS 10m Chamber Limit: CISPR22 Class B 10M Radiation							Polarization: Vertical Temp						
							er: AC 1	20V/60Hz		Humi	idity: 73 %		
Mod	le: C	config_1				Distance: 10m							
Note	e: L	TE B17											
						liated E							
		le :E1-2017	-A0110	C)ata :#9		Date	2017/11/2	Tim	ne: T = 0	05:33:3	6	
	80.0	dBu¥/m								Lim	ä r 1-	_	
											rgin:	_	
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	-						_						
	40						_						
	T	_						-			5	S.	
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			X							_	-	_	
	0.0												
	30.0	000 127.	00 224.00	321.00	418.00	515.00	612.00	709.00	806.00	-	100	0.00 MHz	
lo.	MK.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	1.3					
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	1	_		
1 .		30.000	0 31.70	-12.50	19.20	30.00	-10.80	QP					
2		140.580	0 23.97	-11.47	12.50	30.00	-17.50	QP					
3		642.070	0 22.63	-2.13	20.50	37.00	-16.50	QP					
4		849.650	0 22.60	0.00	22.60	37.00	-14.40	QP					
5		917.550	0 22.40	0.90	23.30	37.00	-13,70	QP					
2													

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

File E1-2017-A0110\Data #9

Page 1

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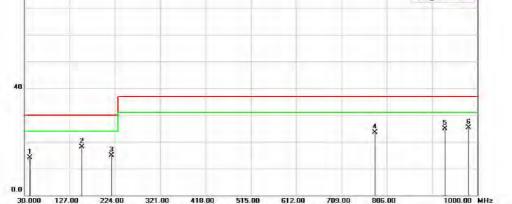
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25 1

Config_2_H

Temperature: Site SGS 10m Chamber Polarization: Horizontal Limit: CISPR22 Class B 10M Radiation Power: From System Humidity: 65 % Mode: Config_2 Distance: 10m Note: Data Read + Camera Front **Radiated Emission** File :E1-2017-A0110 Data :#16 Date: 2017/11/2 Time: T = 10:48:13 80.0 dBuV/m Limit1: Margin:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	100	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		41.6400	25.50	-11.37	14.13	30.00	-15.87	QP	
2		153.1900	29,56	-11.48	18.08	30.00	-11.92	QP	
3	1	217.2100	29.32	-14.33	14.99	30.00	-15.01	QP	
4	4	780,7800	23.79	-0.32	23.47	37.00	-13.53	QP	
5		930.1600	23.71	1.26	24.97	37.00	-12.03	QP	
6	*	981.5700	23.64	1.64	25.28	37.00	-11.72	QP	

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

File :E1-2017-A0110\Data :#16

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Config_2_V

Temperature: 25 1 Site SGS 10m Chamber Polarization: Vertical Limit: CISPR22 Class B 10M Radiation From System Humidity: 65 % Power: Mode: Config_2 Distance: 10m Note: Data Read + Camera Front **Radiated Emission** File :E1-2017-A0110 Data :#15 Date: 2017/11/2 Time: T = 10:48:12 80.0 dBuV/m Limit1: Margin 40 6 * 5 12 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-No. Mk. Freq Limit Over Level Factor ment MHz dBuV dB/m dBuV/m dBuV/m dB Detector Comment 1 55.2200 27.48 -11.12 16.36 30.00 -13.64 QP 2 65.8900 29.42 -12.80 16.62 30.00 -13.38 QP 3 29.70 QP 153.3100 -11.00 18.70 30.00 -11.30 4 767.2000 23.66 -0.16 23.50 37.00 -13.50 QP 5 799.2100 22.80 -0.10 22.70 37.00 -14.30 QP 6 996.1200 22.68 1.56 24.24 37.00 -12.76 QP

*:Maximum data x:Over limit 1:over margin

File E1-2017-A0110\Data #15

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Config_3_H

Temperature: 25 1 Site SGS 10m Chamber Polarization: Horizontal Limit: CISPR22 Class B 10M Radiation Power: AC 120V/60Hz Humidity: 65 % Mode: Config_3 Distance: 10m Note: MP3 + Camera Rear **Radiated Emission** File :E1-2017-A0110 Data #20 Date: 2017/11/2 Time: T = 11:55:56 80.0 dBuV/m Limit1: Margin: 40 9 4 5 ž

3 20 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-No. Mk. Freq Limit Over Level Factor ment MHz dBuV dB/m dBuV/m dBuV/m dB Detector Comment 1 55.2200 24.86 -11.52 13.34 30.00 -16.66 QP 2 141,5500 24.11 -11.93 12.18 30.00 -17.82 QP 3 23.95 QP

-16.36

-13.52

-12.75

-11.62

QP

QP

QP

37.00

37.00

37.00

37.00

x:Over limit

23.80

23.68

23.71

-3.31

-0.32

0.57

1.67

20.64

23.48

24.25

25.38

l:over margin

File :E1-2017-A0110\Data :#20

*:Maximum data

599.3900

777.8700

897.1800

966.0500

4

5

6 *

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Config_3_V

Site SGS 10m Chamber							Polarization: Vertical Temperature: 25						
Limit: CISPR22 Class B 10M Radiation						Power: AC 120V/60Hz Humidity: 65.%							
Mode: Config_3							nce: 10m						
Not	te: N	/IP3 + Cam	era Rear										
						_	_						
						liated E							
		le :E1-2017-A	0110	C)ata :#19		Date	2017/11/2	Time	下午113	55:55		
	80.0	dBuV/m						_		Limit1:	_	1	
										Margin			
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	40	1.000	_										
			F	-									
	1	-	-										
		-									5X	X	
	1	2											
	Ĩ	NX NX	4X			_							
			1										
	0.0	000 127.00	224.00	321.00	418.00	515.00	612.00	709.00	806.00		1000.00	MHz	
-	7.62	17.5 - 2010er	Reading	Correct	Measure-	all and a	10.2 1 10.00	1000	Caracterio		Sec. and	1.1100.0	
10.	Mk.	Freq.	Level	Factor	ment	Limit	Over						
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment				
1		31,9400	27.49	-12.30	15.19	30.00	-14.81	QP					
2		53,2800	24,15	-10.97	13.18	30.00	-16.82	QP					
3		130.8800	23.59	-12.23	11.36	30.00	-18,64	QP					
4	1	156.1000	23.90	-11.08	12.82	30.00	-17.18	QP					
5		930.1600	22,46	0.98	23.44	37.00	-13.56	QP					
6	*	996,1200	22.63	1.56	24.19	37.00	-12.81	QP					

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

File :E1-2017-A0110\Data :#19

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Above 1GHz

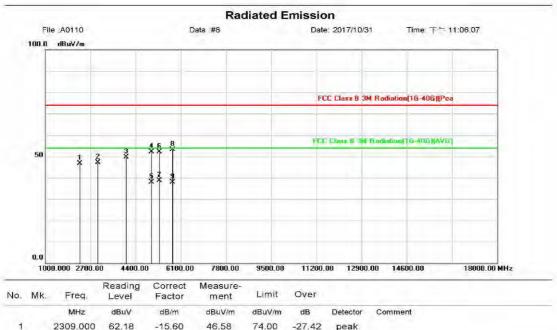
1 GHz ~ 18 GHz

Config 1 H

Site SGS 966 Chamber A Limit: FCC Class B 3M Radiation(1G-40G)(Pea Mode: Config_1 Note: WCDMA B5

Polarization: Horizontal Power: AC 120V/60Hz Distance:

21 0 Temperature: Humidity: 61 %



1	2309.000	62.18	-15.60	46.58	74.00	-27.42	peak
2	2989.000	60.14	-12.91	47.23	74.00	-26.77	peak
3	4043,000	59.23	-9.49	49.74	74.00	-24.26	peak
4	4995,000	59.27	-7.22	52.05	74.00	-21.95	peak
5	4995.000	45.15	-7.22	37.93	54.00	-16.07	AVG
6	5301.000	59.11	-6.96	52.15	74.00	-21.85	peak
7 *	5301.000	45.62	-6.96	38.66	54.00	-15.34	AVG
8	5794.000	59.34	-6.09	53.25	74.00	-20.75	peak
9	5794.000	44.04	-6.09	37.95	54.00	-16.05	AVG

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

File :A0110\Data .#8

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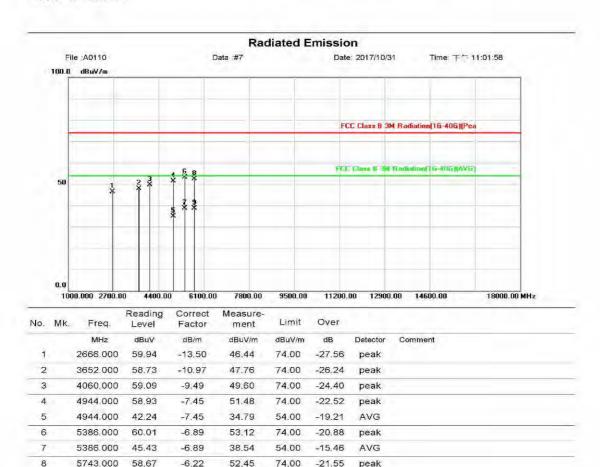
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Config_1_V

Site SGS 966 Chamber A Limit: FCC Class B 3M Radiation(1G-40G)(Pea Mode: Config_1 Note: WCDMA B5

Polarization: **Vertical** Power: AC 120V/60Hz Distance: Temperature: 21 ℃ Humidity: 61 %



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

44 83

-6 22

File A0110\Data #7

5743 000

9

Page. 1

54 00

-15 39

AVG

38 61

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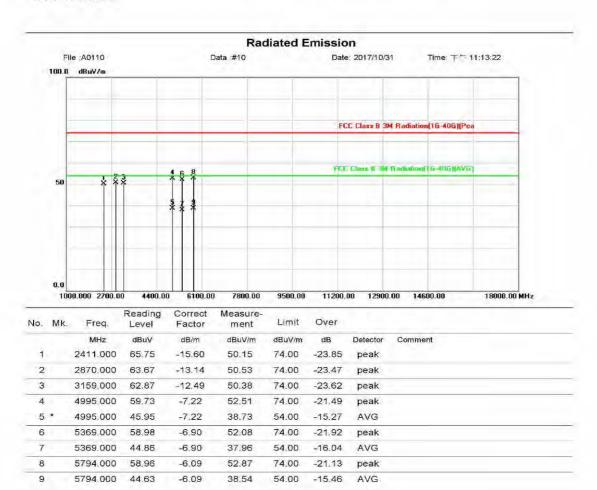


Config_2_H

Site SGS 966 Chamber A Limit: FCC Class B 3M Radiation(1G-40G)(Pea Mode: Config_2 Note: Data Write

Polarization: Horizontal AC 120V/60Hz Power: Distance:

Temperature: 21 % Humidity: 61 %



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

File A0110\Data #10

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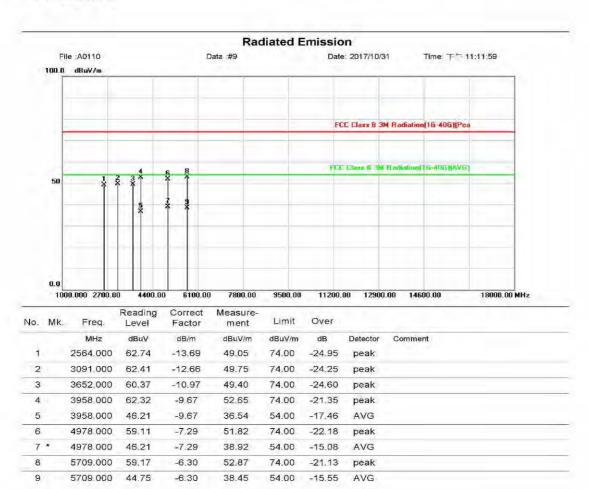


Config_2_V

Site SGS 966 Chamber A Polarization: Limit: FCC Class B 3M Radiation(1G-40G)(Pea Mode: Config_2 Note: Data Write

Vertical AC 120V/60Hz Power: Distance:

Temperature: 21 % Humidity: 61 %



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

File A0110\Data #9

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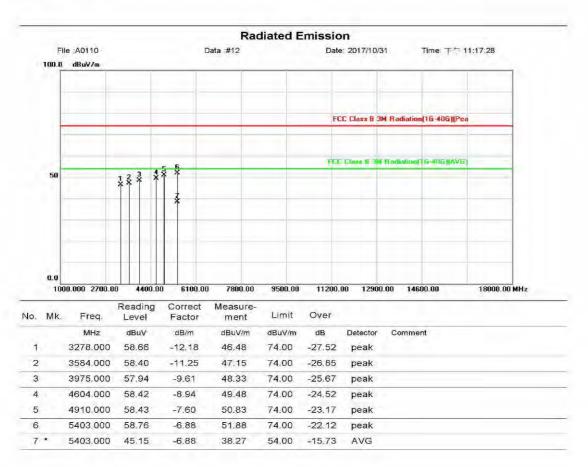


Config_3_H

 Site SGS 966 Chamber A
 Polarization:
 Horizontal
 Temperature:
 21 °C

 Limit: FCC Class B 3M Radiation(1G-40G)(Pea
 Power:
 AC 120V/60Hz
 Humidity:
 61 %

 Mode: Config_3
 Distance:
 Note:
 Note:
 Note:
 Note:



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

File A0110\Data #12

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Config_3_V

Site SGS 966 Chamber A Temperature: 21 % Polarization: Vertical Limit: FCC Class B 3M Radiation(1G-40G)(Pea AC 120V/60Hz Humidity: 61 % Power: Mode: Config_3 Distance: Note: **Radiated Emission** File :A0110 Data :#11 Date: 2017/10/31 Time: T = 11:15:03 100.0 dBuV/m FCC Class B 3M Radiation[16-406][Pea FOL LINES & BM FLOOR ITG-ITG (AVE) 123 50 0.0 1000.000 2700.00 9500.00 11200.00 14600.00 18000.00 MHz 4400.00 6100.00 7800.00 12900.00 Reading Correct Measure-No. Mk. Freq Limit Over Level Factor ment MHz dBuV dB/m dBuV/m dBuV/m dB Detector Comment 1 3771.000 57.65 -10.45 47.20 74.00 -26.80 peak 2 3975.000 59.00 -9.61 49.39 74.00 -24.61 peak 3 58.94 4281,000 -9.44 49.50 74.00 -24.50 peak peak 4 4910.000 58.47 -7.60 50.87 74.00 -23.13 5 5284.000 58.55 -6.97 51.58 74.00 -22.42 peak 6 5284.000 44.62 -6.97 37.65 54.00 -16.35 AVG 7 5760.000 58.24 -6.17 52.07 74.00 -21.93 peak 8 * 5760,000 -6.17 38.44 54.00 44.61 -15.56 AVG

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

File A0110\Data #11

Page: 1

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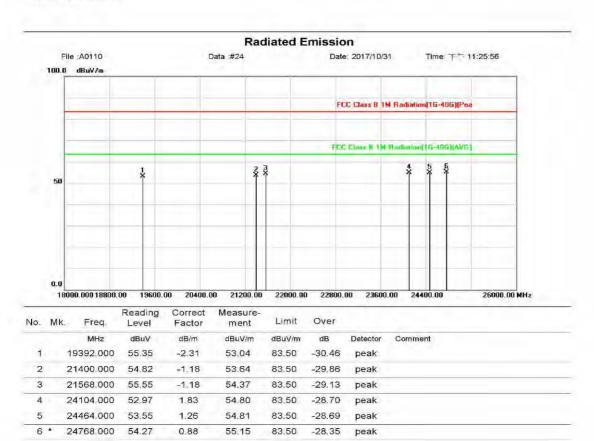


18 GHz ~ 26 GHz Config_1_H

Site SGS 966 Chamber A Limit: FCC Class B 1M Radiation(1G-40G)(Pea Mode: Config_1 Note: WCDMA B5

Polarization: Power: AC 120V/60Hz Distance:

Temperature: 21 % Horizontal Humidity: 61 %



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

File A0110\Data #24

Page: 1

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Config_1_V

Site SGS 966 Chamber A Temperature: 21 % Polarization: Vertical Limit: FCC Class B 1M Radiation(1G-40G)(Pea AC 120V/60Hz Humidity: 61 % Power: Mode: Config_1 Distance: Note: WCDMA B5 **Radiated Emission** File :A0110 Data #23 Date: 2017/10/31 Time: T = 11:24:58 100.0 dBuV/m FCC Class B 1M Radiation[16-406][Pea FOC Class # 1M Ba (IG-40GHAVE) 6 3 S 4 50 0.0 18000.000 18800.00 24400.00 26000.00 MHz 19600.00 20400.00 21200.00 22000.00 22800.00 23600.00 Reading Correct Measure-No. Mk. Freq Limit Over Level Factor ment MHz dBuV dB/m dBuV/m dBuV/m dB Detector Comment 19032.000 55.51 -2.67 52.84 83.50 -30.66 1 peak 2 19384.000 55.41 -2.32 53.09 83.50 -30.41 peak 3 54.94 20984,000 -1.55 53.39 83.50 -30.11 peak peak 4 22560.000 53.88 -1.32 52.56 83.50 -30.94 5 * 24744.000 54.04 0.91 54.95 83.50 -28.55 peak 6 25256.000 53.70 0.65 54.35 83.50 -29.15 peak

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

File A0110\Data #23

Page. 1

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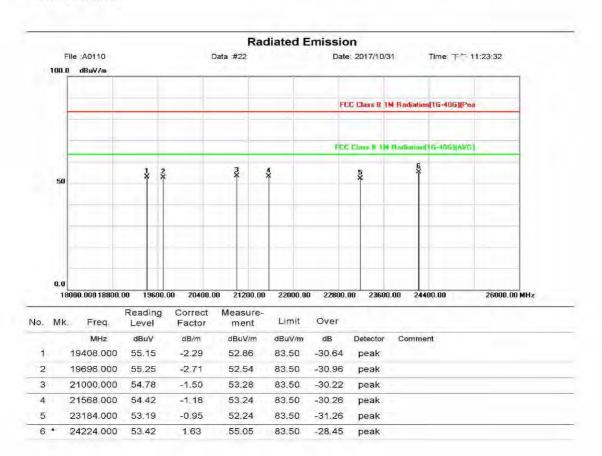
Config_2_H

Site SGS 966 Chamber A Po Limit: FCC Class B 1M Radiation(1G-40G)(Pea Po Mode: Config_2 Dis Note: Data Write

 Polarization:
 Horizontal
 Temperature:
 21 °C

 Power:
 AC 120V/60Hz
 Humidity:
 61 %

 Distance:



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

File A0110\Data #22

Page. 1

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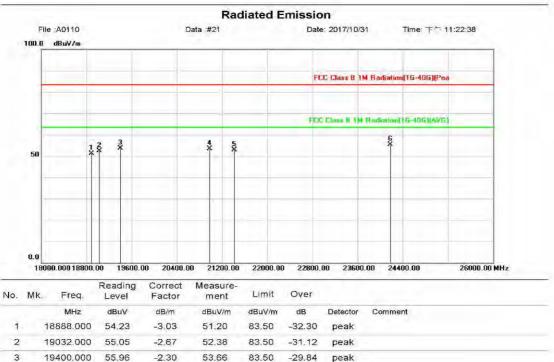
Config_2_V

 Site SGS 966 Chamber A
 Polarization: Vertical
 Temperature:
 21 °C

 Limit: FCC Class B 1M Radiation(1G-40G)(Pea
 Power:
 AC 120V/60Hz
 Humidity:
 61 %

 Mode: Config_2
 Distance:

 Note: Data Write



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

54.95

53.95

53.56

-1.55

-1.17

1.70

53,40

52.78

55.26

83.50

83.50

83.50

File A0110\Data #21

4

5

6 *

20984.000

21416.000

24184.000

Page. 1

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peak

peak

peak

-30.10

-30.72

-28.24

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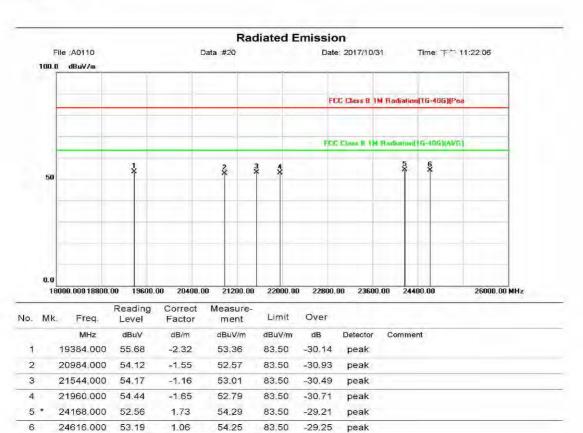


Config_3_H

 Site SGS 966 Chamber A
 Polarization: Horizontal
 Temperature:
 21 °C

 Limit: FCC Class B 1M Radiation(1G-40G)(Pea
 Power:
 AC 120V/60Hz
 Humidity:
 61 %

 Mode: Config_3
 Distance:
 Note:
 Note:
 Note:
 Note:



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

File A0110\Data #20

Page. 1

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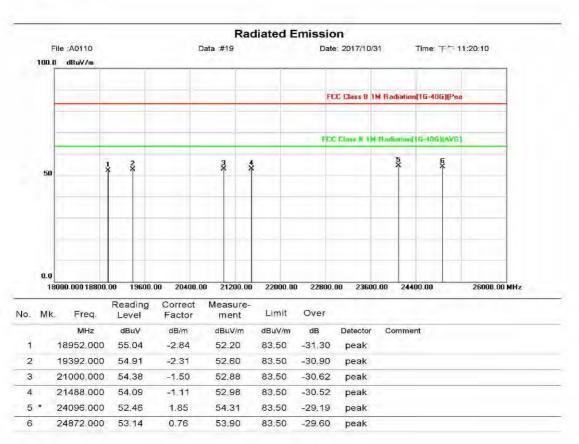
Config_3_V

 Site SGS 966 Chamber A
 Polarization: Vertical
 Temperature:
 21 °C

 Limit: FCC Class B 1M Radiation(1G-40G)(Pea
 Power:
 AC 120V/60Hz
 Humidity:
 61 %

 Mode: Config_3
 Distance:

 Note:
 Note:



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

File :A0110\Data :#19

Page. 1

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26 GHz ~ 30GHz Config_1_H

Site SGS 966 Chamber A Limit: FCC Class B 1M Radiation(1G-40G)(Pea Mode: Config_1 Note: WCDMA B5 Polarization: Horizontal Power: AC 120V/60Hz Distance: Temperature: 21 °C Humidity: 61 %



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

50.21

48.89

File A0110\Data #32

27236.000

27936.000

5

6

Page. 1

83.50

83.50

-31.29

-32.63

peak

peak

52.21

50.87

2.00

1.98

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Config_1_V

Site SGS 966 Chamber A Temperature: 21 % Polarization: Vertical Limit: FCC Class B 1M Radiation(1G-40G)(Pea AC 120V/60Hz Humidity: 61 % Power: Mode: Config_1 Distance: Note: WCDMA B5 **Radiated Emission** File :A0110 Data :#31 Date: 2017/10/31 Time: 下午 11:31:35 100 A dBuV/a FCC Class B 1M Radiation[16-406][Pea FCC Class # 1M Bad (16-406)(AVE) 2 3 4 5 6 50 0.0 27200.00 27600.00 28400.00 29200.00 30000.00 MHz 26000.00026400.00 26800.00 28000.00 28800.00 Reading Correct Measure-No. Mk. Freq Limit Over Level Factor ment MHz dBuV dB/m dBuV/m dBuV/m dB Detector Comment 1 26204.000 52.00 2.42 54.42 83.50 -29.08 peak 2 26304.000 52.01 2.58 54.59 83.50 -28.91 peak 3 * 26760.000 52.24 2.48 54.72 83.50 -28.78 peak 4 26936.000 50.28 2.20 52.48 83.50 -31.02 peak 5 27392.000 50.36 1.95 52.31 83.50 -31.19 peak 6 27892.000 48.65 1.99 50.64 83.50 -32.86 peak

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

File A0110\Data #31

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: Data Write

 Polarization:
 Horizontal
 Temperature:
 21 °C

 Power:
 AC 120V/60Hz
 Humidity:
 61 %

 Distance:



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

50.37

48.95

1.93

1.99

52.30

50.94

83.50

83.50

-31.20

-32.56

peak

peak

File A0110\Data #34

27412.000

27892.000

5

6

Page. 1

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21 %

Temperature:

Humidity: 61 %

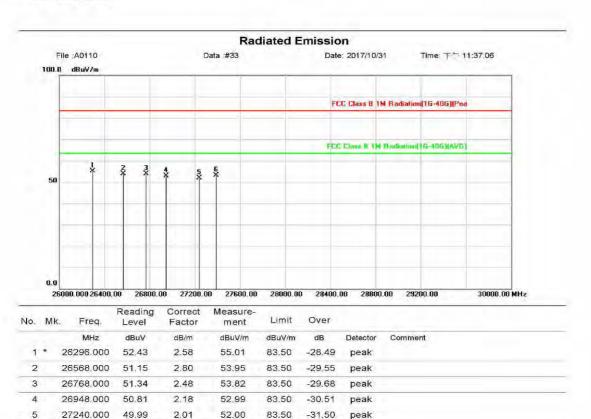
Config_2_V

 Site SGS 966 Chamber A
 Polarization: Vertical

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

 Mode: Config_2
 Distance:

 Note: Data Write
 Distance:



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

51.24

1.95

53.19

File :A0110\Data :#33

27388.000

6

Page. 1

83.50

-30.31

peak

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f (886-2) 2298-0488



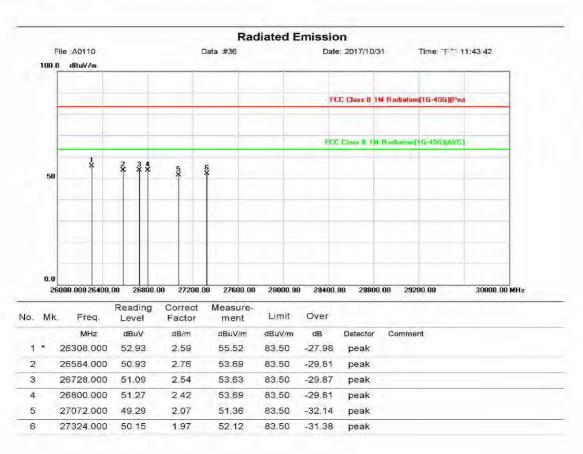
Config_3_H

 Site SGS 966 Chamber A
 Polarization: Horizontal
 Temperature:
 21 °C

 Limit: FCC Class B 1M Radiation(1G-40G)(Pea
 Power:
 AC 120V/60Hz
 Humidity:
 61 %

 Mode: Config_3
 Distance:

 Note:
 Note:



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

File A0110\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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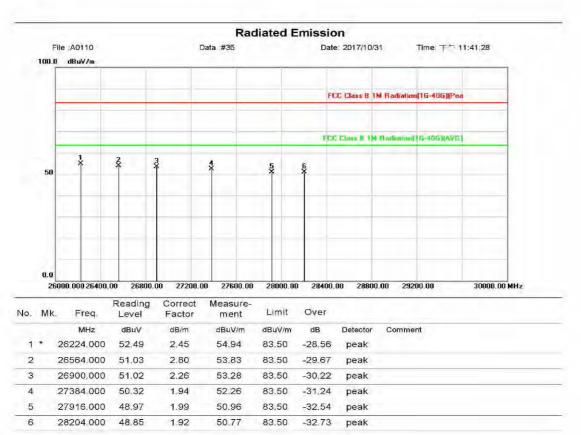


Config_3_V

 Site SGS 966 Chamber A
 Polarization:
 Vertical
 Temperature:
 21 °C

 Limit: FCC Class B 1M Radiation(1G-40G)(Pea
 Power:
 AC 120V/60Hz
 Humidity:
 61 %

 Mode: Config_3
 Distance:



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

File A0110\Data #35

Page. 1

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