

FCC CERTIFICATION REPORT

Test Report No. : E1/2017/A0110

Applicant : SHARP CORPORATION, IoT Communication BU

Address : 2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi, Hiroshima,
739-0192, Japan

Manufacturer : Sharp Corporation

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

Equipment Under Test (EUT) :

Product Name : Smart phone

Standards : FCC Part 15:2017, Subpart B, Class B

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

Remarks :

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

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:

Ivan Hsieh

Date

Nov. 22, 2017

Ivan Hsieh (Engineer)

Approved By

Eddy Cheng

Date

Nov. 22, 2017

Eddy Cheng (Asst. Supervisor)



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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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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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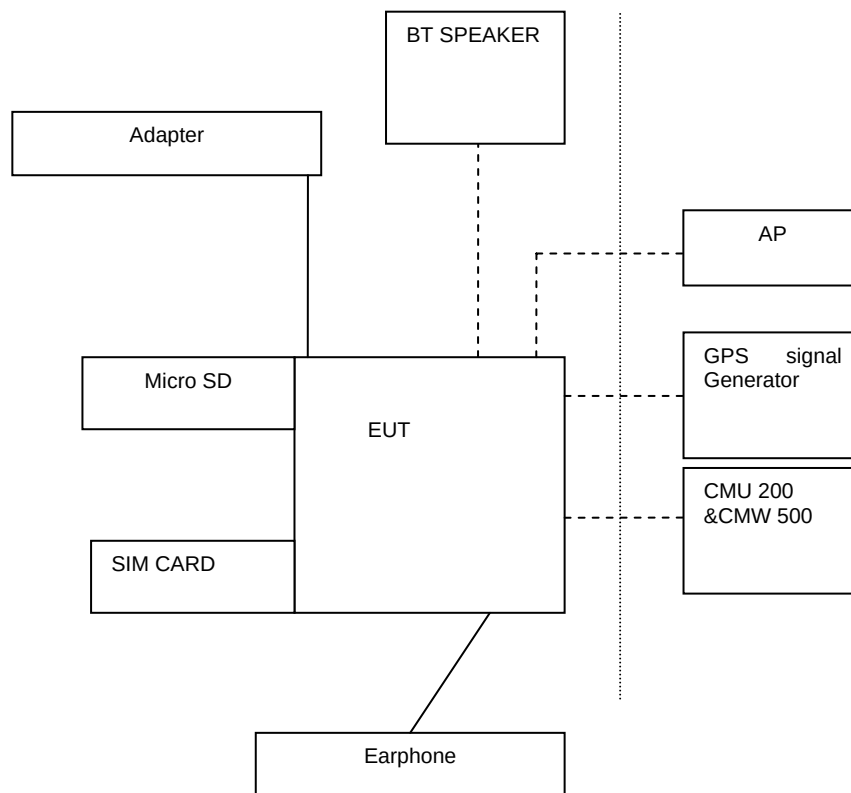
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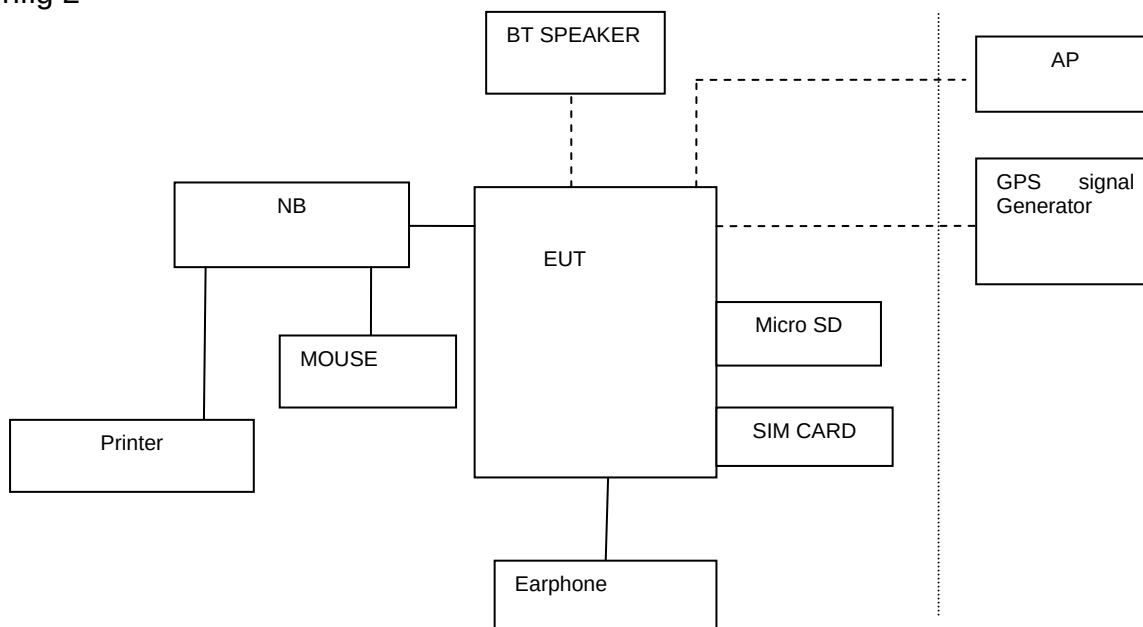


1.8 Test Set-Up Configuration

Config 1

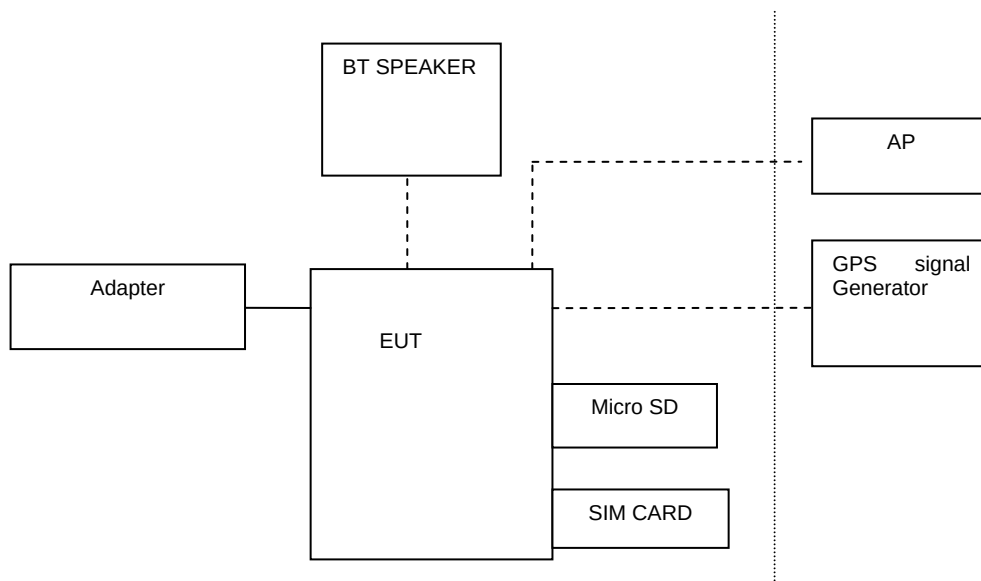


Config 2



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1.9 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2014 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2014 at the 3/10m semi-anechoic chamber. The EUT was placed on a 0.8m high table along with the peripherals. The turn table was placed 10m distance from the antenna. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.10 Standards Applicable for Testing

Tests to be carried out under FCC Part 15, Subpart B/CISPR 22

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

1.11 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Pol.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B Class B	Conducted Emission	PASS	Line	0.4980	-13.19 (QP)
			Neutral	0.3780	-13.80 (AVG)
	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 (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

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2.3.2 Limits of Radiated Emissions

FCC Part 15, Subpart B Limit:

- Detector Function : Quasi – Peak

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

- Detector Function : Peak , Average

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

CISPR 22 Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

NOTE 1 The lower limit shall apply at the transition frequency.

NOTE 2 Additional provisions may be required for cases where interference occurs.

FREQUENCY (GHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Average	Peak	Average	Peak
1~3	56	76	50	70
3~6	60	80	54	74

NOTE The lower limit applies at the transition frequency.

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2.4. Test of Conducted Emission

2.4.1 Test Equipments

SGS Conducted Emission HWAYA Conducted Room No.A EMC					
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	Schwarzbeck	NSLK 8128	NSLK8128-300	2017/9/4	2018/9/3
Universal Digital Radio Communication Tester	R&S	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.
SGS Taiwan LTD. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Measurement Uncertainty of Conducted Emission Expanded uncertainty (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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2.4.4 Measurement Data:

Config_1_L

Site : Conduction Room Phase: **L1** Temperature: 25 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 59 %
 Mode: Config_1
 Note: LTE_B17

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.4980	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		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		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		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		9.5140	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 l:over margin

File :E1-2017-A0110\Data :#9

Page: 1

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

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

File :E1-2017-A0110\Data :#9

Page: 2

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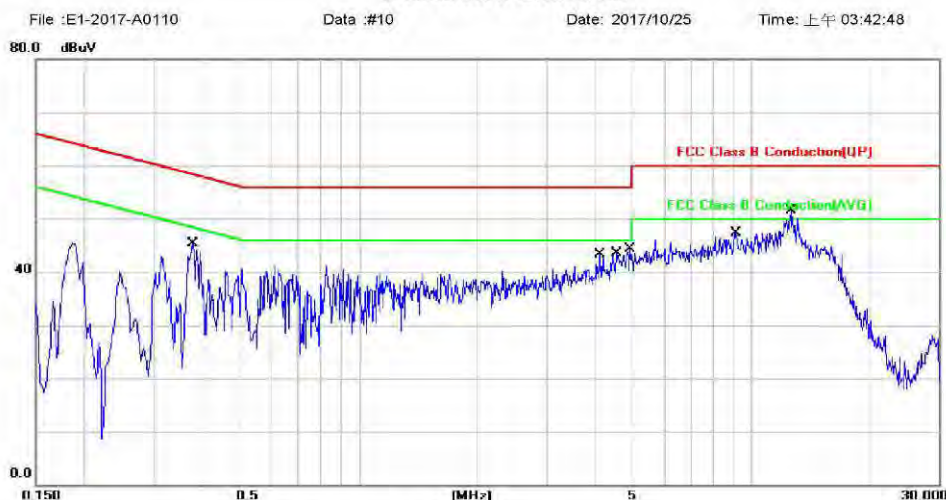
Config_1_N

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Config_1
Note: LTE_B17

Phase: **N**
Power: AC 120V/60Hz

Temperature: 25 °C
Humidity: 59 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.3780	42.80	0.12	42.92	58.32	-15.40	QP	
2 *		0.3780	34.40	0.12	34.52	48.32	-13.80	AVG	
3		4.1300	38.20	0.27	38.47	56.00	-17.53	QP	
4		4.1300	28.20	0.27	28.47	46.00	-17.53	AVG	
5		4.5260	39.90	0.28	40.18	56.00	-15.82	QP	
6		4.5260	29.10	0.28	29.38	46.00	-16.62	AVG	
7		4.9100	38.50	0.29	38.79	56.00	-17.21	QP	
8		4.9100	29.70	0.29	29.99	46.00	-16.01	AVG	
9		9.1140	42.00	0.44	42.44	60.00	-17.56	QP	
10		9.1140	30.70	0.44	31.14	50.00	-18.86	AVG	
11		12.7020	40.80	0.55	41.35	60.00	-18.65	QP	
12		12.7020	30.30	0.55	30.85	50.00	-19.15	AVG	

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

File :E1-2017-A0110\Data :#10

Page: 1

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Config_2_L

Site : Conduction Room
 Limit: FCC Class B Conduction(QP)
 Mode: Config_2
 Note: DATA Write

Phase: **L1**
 Power: AC 120V/60Hz

Temperature: 25 °C
 Humidity: 59 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1900	50.10	0.03	50.13	64.04	-13.91	QP	
2		0.1900	37.50	0.03	37.53	54.04	-16.51	AVG	
3		0.2620	40.30	0.03	40.33	61.37	-21.04	QP	
4		0.2620	29.50	0.03	29.53	51.37	-21.84	AVG	
5		0.2740	39.10	0.03	39.13	61.00	-21.87	QP	
6		0.2740	27.90	0.03	27.93	51.00	-23.07	AVG	
7		0.3220	40.00	0.04	40.04	59.66	-19.62	QP	
8		0.3220	28.40	0.04	28.44	49.66	-21.22	AVG	
9		1.9860	34.90	0.24	35.14	56.00	-20.86	QP	
10		1.9860	24.60	0.24	24.84	46.00	-21.16	AVG	
11		3.9260	35.90	0.37	36.27	56.00	-19.73	QP	
12		3.9260	27.40	0.37	27.77	46.00	-18.23	AVG	

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

File :E1-2017-A0110\Data :#21

Page: 1

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Config_2_N

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Config_2
Note: DATA Write

Phase: **N**
Power: AC 120V/60Hz

Temperature: 25 °C
Humidity: 59 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1980	49.40	0.11	49.51	63.69	-14.18	QP	
2		0.1980	36.40	0.11	36.51	53.69	-17.18	AVG	
3		0.2700	40.10	0.11	40.21	61.12	-20.91	QP	
4		0.2700	27.10	0.11	27.21	51.12	-23.91	AVG	
5		0.3140	39.40	0.12	39.52	59.86	-20.34	QP	
6		0.3140	25.90	0.12	26.02	49.86	-23.84	AVG	
7		2.5460	32.40	0.26	32.66	56.00	-23.34	QP	
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 l:over margin

File :E1-2017-A0110\Data :#22

Page: 1

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Config_3_L

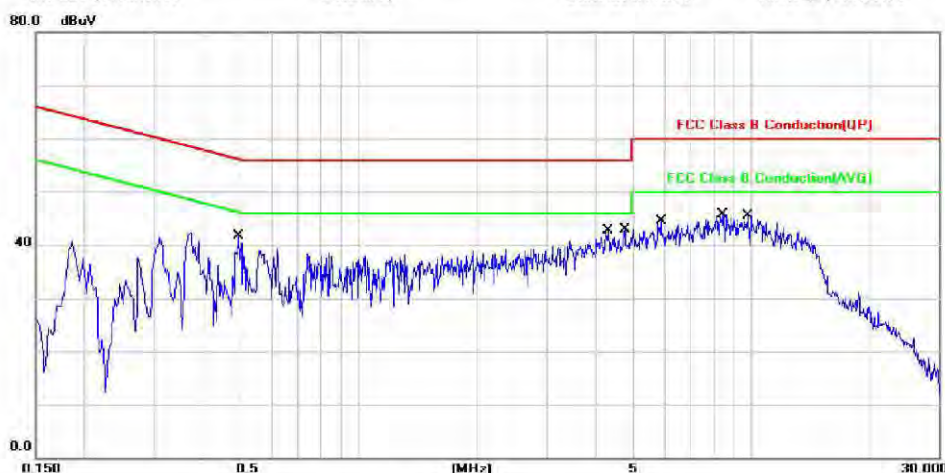
Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Config_3
Note:

Phase: **L1**
Power: AC 120V/60Hz

Temperature: 25 °C
Humidity: 59 %

Conducted Emission

File :E1-2017-A0110 Date :#13 Date: 2017/10/25 Time: 上午 04:03:03



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.4940	38.80	0.04	38.84	56.10	-17.26	QP	
2		0.4940	25.70	0.04	25.74	46.10	-20.36	AVG	
3		4.3220	36.00	0.39	36.39	56.00	-19.61	QP	
4		4.3220	25.10	0.39	25.49	46.00	-20.51	AVG	
5		4.7700	36.00	0.41	36.41	56.00	-19.59	QP	
6		4.7700	25.80	0.41	26.21	46.00	-19.79	AVG	
7		5.8900	36.00	0.47	36.47	60.00	-23.53	QP	
8		5.8900	26.50	0.47	26.97	50.00	-23.03	AVG	
9		8.4860	37.00	0.61	37.61	60.00	-22.39	QP	
10		8.4860	26.40	0.61	27.01	50.00	-22.99	AVG	
11		9.8020	36.50	0.68	37.18	60.00	-22.82	QP	
12		9.8020	25.70	0.68	26.38	50.00	-23.62	AVG	

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

File :E1-2017-A0110\Data :#13

Page: 1

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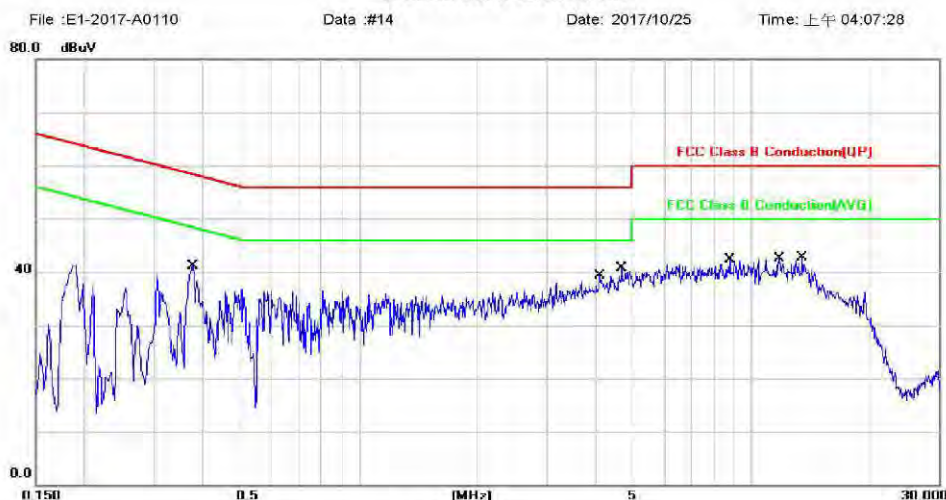
Config_3_N

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Config_3
Note:

Phase: **N**
Power: AC 120V/60Hz

Temperature: 25 °C
Humidity: 59 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.3780	27.80	0.12	27.92	58.32	-30.40	QP	
2		0.3780	11.50	0.12	11.62	48.32	-36.70	AVG	
3		4.1060	27.30	0.27	27.57	56.00	-28.43	QP	
4		4.1060	11.60	0.27	11.87	46.00	-34.13	AVG	
5		4.6940	31.90	0.28	32.18	56.00	-23.82	QP	
6		4.6940	16.20	0.28	16.48	46.00	-29.52	AVG	
7		8.8180	36.40	0.43	36.83	60.00	-23.17	QP	
8		8.8180	24.10	0.43	24.53	50.00	-25.47	AVG	
9		11.7660	37.20	0.52	37.72	60.00	-22.28	QP	
10		11.7660	25.30	0.52	25.82	50.00	-24.18	AVG	
11	*	13.5100	37.80	0.57	38.37	60.00	-21.63	QP	
12		13.5100	26.10	0.57	26.67	50.00	-23.33	AVG	

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

File : E1-2017-A0110\Data : #14

Page: 1

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

SGS Radiated_Below_1GHz HWAYA 10m EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100950	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	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.

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 Date	Calibration 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	BBHA9120D673	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 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		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 l: over margin

File: E1-2017-A0110>Data: #10

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Config_1_V

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

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

Temperature: 23 °C
Humidity: 73 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	*	30.0000	31.70	-12.50	19.20	30.00	-10.80	QP	
2		140.5800	23.97	-11.47	12.50	30.00	-17.50	QP	
3		642.0700	22.63	-2.13	20.50	37.00	-16.50	QP	
4		849.6500	22.60	0.00	22.60	37.00	-14.40	QP	
5		917.5500	22.40	0.90	23.30	37.00	-13.70	QP	
6		976.7200	22.54	1.36	23.90	37.00	-13.10	QP	

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

File: E1-2017-A0110>Data: #9

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Config_2_H

Site: SGS 10m Chamber
 Limit: CISPR22 Class B 10M Radiation
 Mode: Config_2
 Note: Data Read + Camera Front

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

Temperature: 25 °C
 Humidity: 65 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		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		217.2100	29.32	-14.33	14.99	30.00	-15.01	QP	
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 !: over margin

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

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Config_2_V

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Config_2
Note: Data Read + Camera Front

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

Temperature: 25 °C
Humidity: 65 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
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 *		153.3100	29.70	-11.00	18.70	30.00	-11.30	QP	
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 !:over margin

File: E1-2017-A0110>Data: #15

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Config_3_H

Site: SGS 10m Chamber
 Limit: CISPR22 Class B 10M Radiation
 Mode: Config_3
 Note: MP3 + Camera Rear

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

Temperature: 25 °C
 Humidity: 65 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			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		599.3900	23.95	-3.31	20.64	37.00	-16.36	QP	
4		777.8700	23.80	-0.32	23.48	37.00	-13.52	QP	
5		897.1800	23.68	0.57	24.25	37.00	-12.75	QP	
6 *		966.0500	23.71	1.67	25.38	37.00	-11.62	QP	

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

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

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Config_3_V

Site: SGS 10m Chamber
 Limit: CISPR22 Class B 10M Radiation
 Mode: Config_3
 Note: MP3 + Camera Rear

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

Temperature: 25 °C
 Humidity: 65 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		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		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 !:over margin

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

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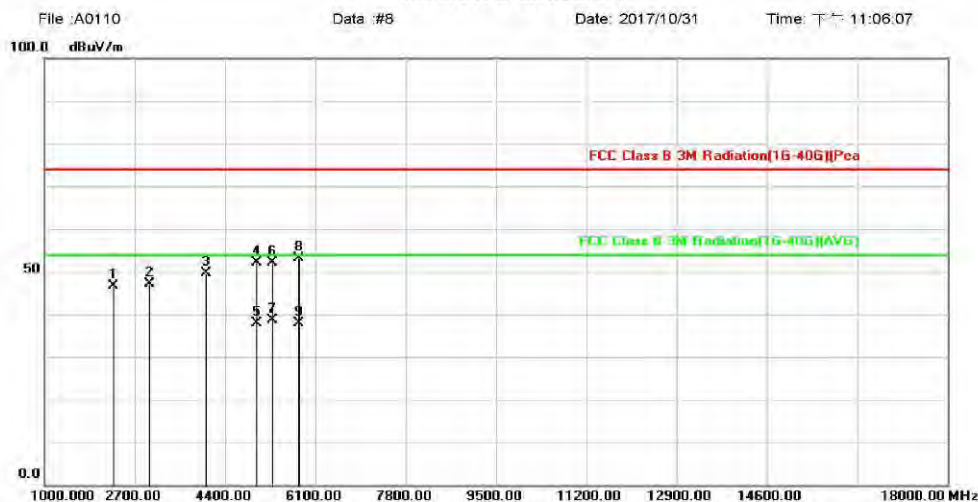
Above 1GHz

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:
 Temperature: 21 °C
 Humidity: 61 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		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 !:over margin

File :A0110\Data :#8

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Config_1_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 21 °C

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

Power: AC 120V/60Hz

Humidity: 61 %

Mode: Config_1

Distance:

Note: WCDMA B5

Radiated Emission

File :A0110

Data :#7

Date: 2017/10/31

Time: 下午 11:01:58



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2666.000	59.94	-13.50	46.44	74.00	-27.56	peak	
2		3652.000	58.73	-10.97	47.76	74.00	-26.24	peak	
3		4060.000	59.09	-9.49	49.60	74.00	-24.40	peak	
4		4944.000	58.93	-7.45	51.48	74.00	-22.52	peak	
5		4944.000	42.24	-7.45	34.79	54.00	-19.21	AVG	
6		5386.000	60.01	-6.89	53.12	74.00	-20.88	peak	
7		5386.000	45.43	-6.89	38.54	54.00	-15.46	AVG	
8		5743.000	58.67	-6.22	52.45	74.00	-21.55	peak	
9 *		5743.000	44.83	-6.22	38.61	54.00	-15.39	AVG	

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

File :A0110\Data :#7

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: Data Write

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

Temperature: 21 °C
Humidity: 61 %

Radiated Emission

File :A0110

Data :#10

Date: 2017/10/31

Time: 下午 11:13:22



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2411.000	65.75	-15.60	50.15	74.00	-23.85	peak	
2		2870.000	63.67	-13.14	50.53	74.00	-23.47	peak	
3		3159.000	62.87	-12.49	50.38	74.00	-23.62	peak	
4		4995.000	59.73	-7.22	52.51	74.00	-21.49	peak	
5 *		4995.000	45.95	-7.22	38.73	54.00	-15.27	AVG	
6		5369.000	58.98	-6.90	52.08	74.00	-21.92	peak	
7		5369.000	44.86	-6.90	37.96	54.00	-16.04	AVG	
8		5794.000	58.96	-6.09	52.87	74.00	-21.13	peak	
9		5794.000	44.63	-6.09	38.54	54.00	-15.46	AVG	

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

File :A0110\Data :#10

Page: 1

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Config_2_V

Site :SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 21 °C

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

Power: AC 120V/60Hz

Humidity: 61 %

Mode: Config_2

Distance:

Note: Data Write

Radiated Emission

File :A0110

Data :#9

Date: 2017/10/31

Time: 下午 11:11:59



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment			Detector	Comment
1		2564.000	62.74	-13.69	49.05	74.00	-24.95	peak	
2		3091.000	62.41	-12.66	49.75	74.00	-24.25	peak	
3		3652.000	60.37	-10.97	49.40	74.00	-24.60	peak	
4		3958.000	62.32	-9.67	52.65	74.00	-21.35	peak	
5		3958.000	46.21	-9.67	36.54	54.00	-17.46	AVG	
6		4978.000	59.11	-7.29	51.82	74.00	-22.18	peak	
7	*	4978.000	46.21	-7.29	38.92	54.00	-15.08	AVG	
8		5709.000	59.17	-6.30	52.87	74.00	-21.13	peak	
9		5709.000	44.75	-6.30	38.45	54.00	-15.55	AVG	

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

File :A0110\Data :#9

Page: 1

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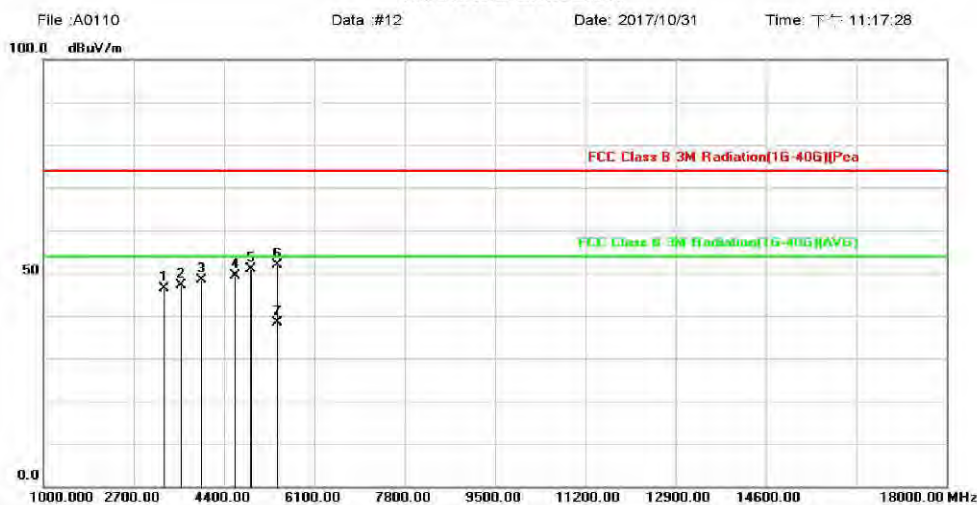
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Config_3_H

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: 21 °C
Humidity: 61 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		3278.000	58.66	-12.18	46.48	74.00	-27.52	peak	
2		3584.000	58.40	-11.25	47.15	74.00	-26.85	peak	
3		3975.000	57.94	-9.61	48.33	74.00	-25.67	peak	
4		4604.000	58.42	-8.94	49.48	74.00	-24.52	peak	
5		4910.000	58.43	-7.60	50.83	74.00	-23.17	peak	
6		5403.000	58.76	-6.88	51.88	74.00	-22.12	peak	
7	*	5403.000	45.15	-6.88	38.27	54.00	-15.73	AVG	

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

File :A0110\Data :#12

Page: 1

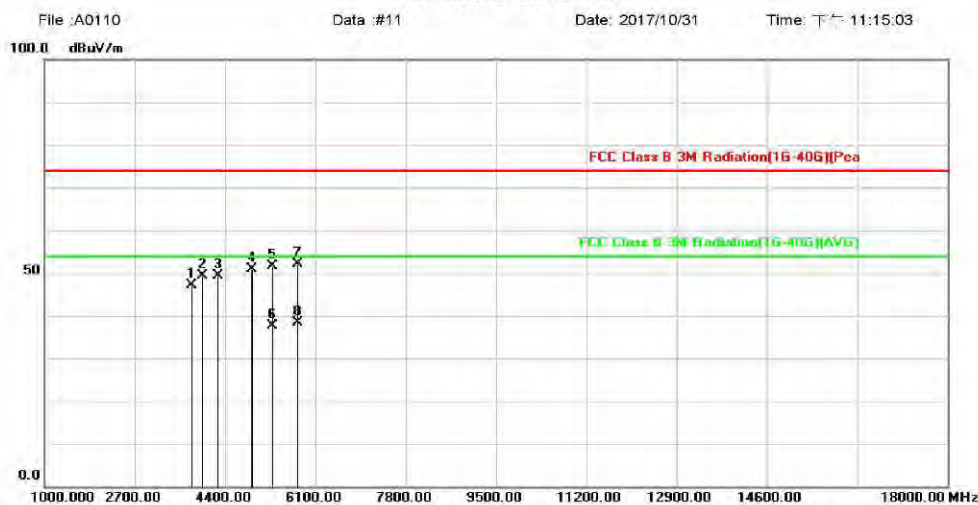
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Config_3_V

Site: SGS 966 Chamber A
Limit: FCC Class B 3M Radiation(1G-40G)(Pea
Mode: Config_3
Note:
Polarization: **Vertical**
Power: AC 120V/60Hz
Distance:
Temperature: 21 °C
Humidity: 61 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		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		4281.000	58.94	-9.44	49.50	74.00	-24.50	peak	
4		4910.000	58.47	-7.60	50.87	74.00	-23.13	peak	
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	44.61	-6.17	38.44	54.00	-15.56	AVG	

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

File :A0110\Data :#11

Page: 1

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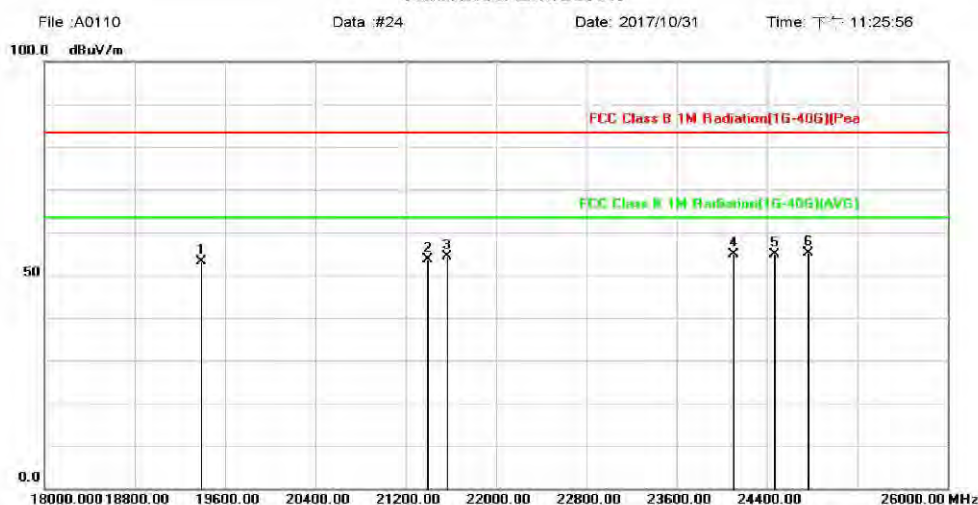


18 GHz ~ 26 GHz

Config_1_H

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

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		19392.000	55.35	-2.31	53.04	83.50	-30.46	peak	
2		21400.000	54.82	-1.18	53.64	83.50	-29.86	peak	
3		21568.000	55.55	-1.18	54.37	83.50	-29.13	peak	
4		24104.000	52.97	1.83	54.80	83.50	-28.70	peak	
5		24464.000	53.55	1.26	54.81	83.50	-28.69	peak	
6 *		24768.000	54.27	0.88	55.15	83.50	-28.35	peak	

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

File :A0110\Data :#24

Page: 1

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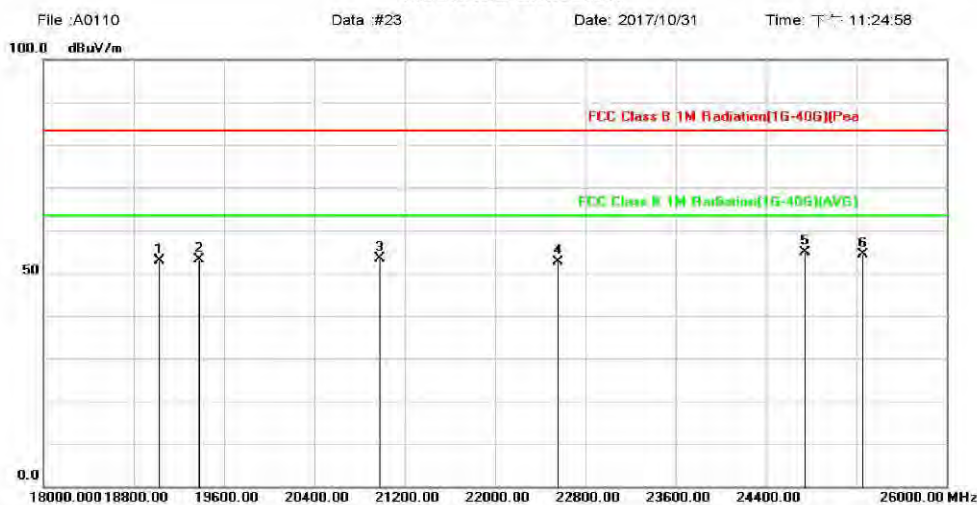
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Config_1_V

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

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		19032.000	55.51	-2.67	52.84	83.50	-30.66	peak	
2		19384.000	55.41	-2.32	53.09	83.50	-30.41	peak	
3		20984.000	54.94	-1.55	53.39	83.50	-30.11	peak	
4		22560.000	53.88	-1.32	52.56	83.50	-30.94	peak	
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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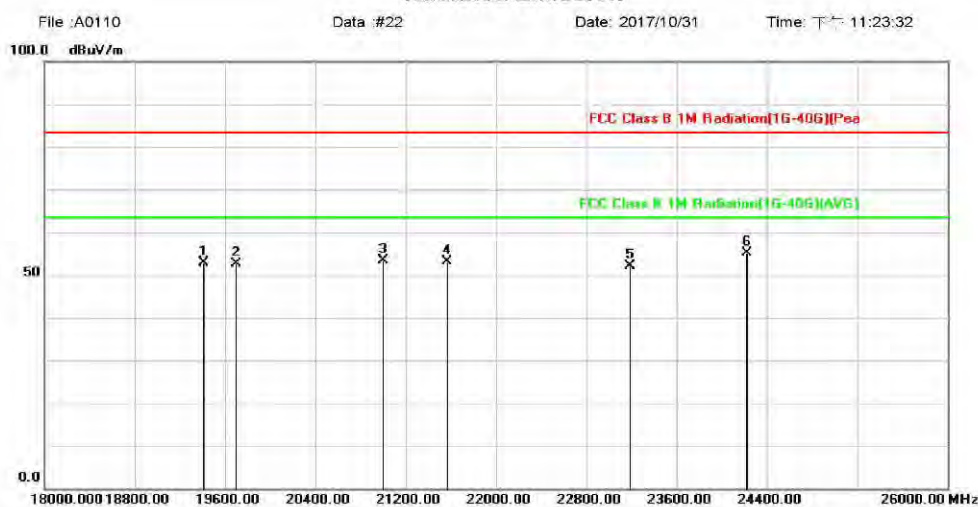
Config_2_H

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

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

Temperature: 21 °C
 Humidity: 61 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		19408.000	55.15	-2.29	52.86	83.50	-30.64	peak	
2		19696.000	55.25	-2.71	52.54	83.50	-30.96	peak	
3		21000.000	54.78	-1.50	53.28	83.50	-30.22	peak	
4		21568.000	54.42	-1.18	53.24	83.50	-30.26	peak	
5		23184.000	53.19	-0.95	52.24	83.50	-31.26	peak	
6 *		24224.000	53.42	1.63	55.05	83.50	-28.45	peak	

*: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

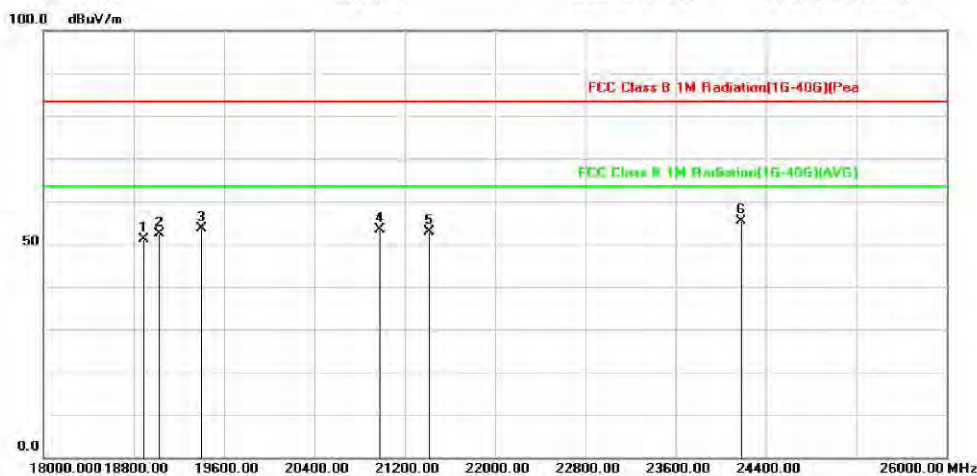
Radiated Emission

File :A0110

Data :#21

Date: 2017/10/31

Time: 下午 11:22:38



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		18888.000	54.23	-3.03	51.20	83.50	-32.30	peak	
2		19032.000	55.05	-2.67	52.38	83.50	-31.12	peak	
3		19400.000	55.96	-2.30	53.66	83.50	-29.84	peak	
4		20984.000	54.95	-1.55	53.40	83.50	-30.10	peak	
5		21416.000	53.95	-1.17	52.78	83.50	-30.72	peak	
6 *		24184.000	53.56	1.70	55.26	83.50	-28.24	peak	

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

File :A0110\Data :#21

Page: 1

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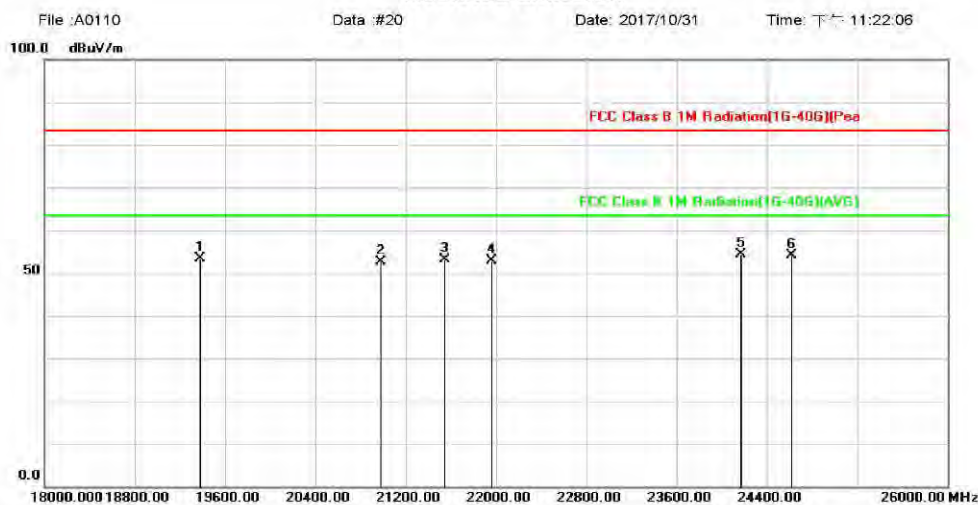
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Config_3_H

Site: SGS 966 Chamber A Polarization: **Horizontal** Temperature: 21 °C
 Limit: FCC Class B 1M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 61 %
 Mode: Config_3 Distance:
 Note:

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		19384.000	55.68	-2.32	53.36	83.50	-30.14	peak	
2		20984.000	54.12	-1.55	52.57	83.50	-30.93	peak	
3		21544.000	54.17	-1.16	53.01	83.50	-30.49	peak	
4		21960.000	54.44	-1.65	52.79	83.50	-30.71	peak	
5 *		24168.000	52.56	1.73	54.29	83.50	-29.21	peak	
6		24616.000	53.19	1.06	54.25	83.50	-29.25	peak	

*: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
 Limit: FCC Class B 1M Radiation(1G-40G)(Pea
 Mode: Config_3
 Note:
 Polarization: **Vertical**
 Power: AC 120V/60Hz
 Distance:
 Temperature: 21 °C
 Humidity: 61 %

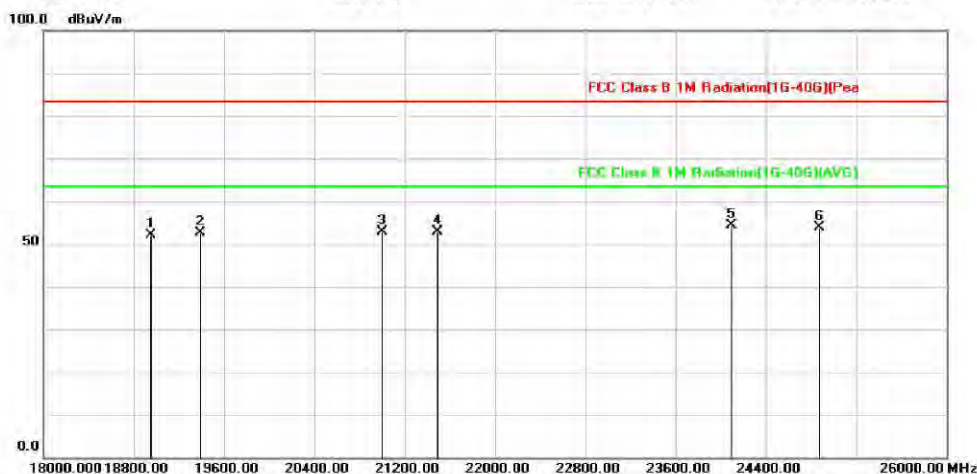
Radiated Emission

File :A0110

Data :#19

Date: 2017/10/31

Time: 下午 11:20:10



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		18952.000	55.04	-2.84	52.20	83.50	-31.30	peak	
2		19392.000	54.91	-2.31	52.60	83.50	-30.90	peak	
3		21000.000	54.38	-1.50	52.88	83.50	-30.62	peak	
4		21488.000	54.09	-1.11	52.98	83.50	-30.52	peak	
5 *		24096.000	52.46	1.85	54.31	83.50	-29.19	peak	
6		24872.000	53.14	0.76	53.90	83.50	-29.60	peak	

*: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 %

Radiated Emission

File :A0110

Data :#32

Date: 2017/10/31

Time: 下午 11:32:14



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		26088.000	52.26	2.24	54.50	83.50	-29.00	peak	
2	*	26300.000	52.04	2.58	54.62	83.50	-28.88	peak	
3		26720.000	50.88	2.55	53.43	83.50	-30.07	peak	
4		26908.000	50.82	2.24	53.06	83.50	-30.44	peak	
5		27236.000	50.21	2.00	52.21	83.50	-31.29	peak	
6		27936.000	48.89	1.98	50.87	83.50	-32.63	peak	

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

File :A0110\Data :#32

Page: 1

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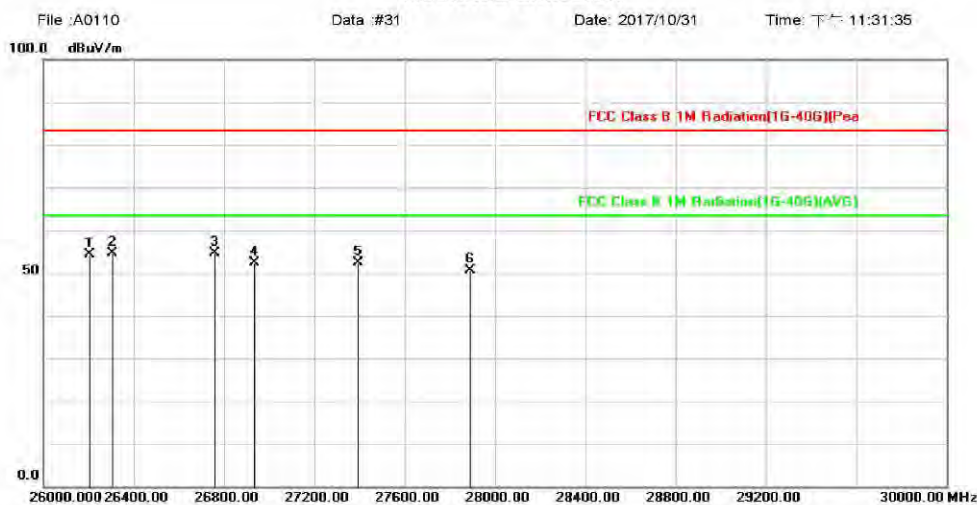
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Config_1_V

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

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
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**
Power: AC 120V/60Hz
Distance:

Temperature: 21 °C
Humidity: 61 %

Radiated Emission

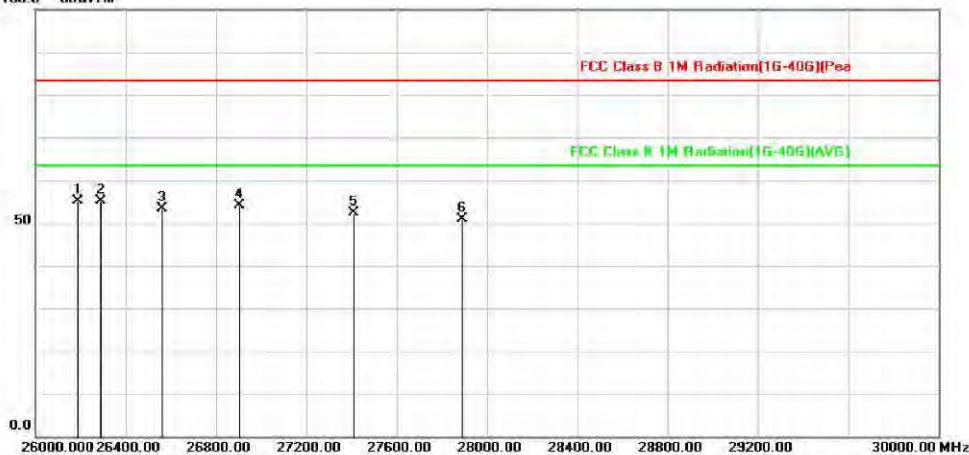
File :A0110

Data :#34

Date: 2017/10/31

Time: 下午 11:38:41

100.0 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	*	26188.000	52.78	2.40	55.18	83.50	-28.32	peak	
2		26292.000	52.56	2.57	55.13	83.50	-28.37	peak	
3		26560.000	50.61	2.80	53.41	83.50	-30.09	peak	
4		26904.000	51.99	2.26	54.25	83.50	-29.25	peak	
5		27412.000	50.37	1.93	52.30	83.50	-31.20	peak	
6		27892.000	48.95	1.99	50.94	83.50	-32.56	peak	

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

File :A0110\Data :#34

Page: 1

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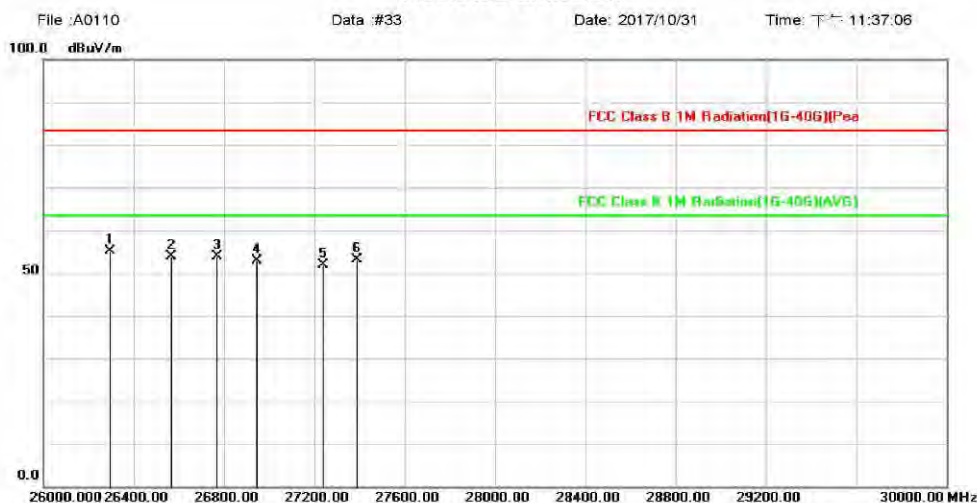
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Config_2_V

Site: SGS 966 Chamber A
 Limit: FCC Class B 1M Radiation(1G-40G)(Pea
 Mode: Config_2
 Note: Data Write
 Polarization: **Vertical**
 Power: AC 120V/60Hz
 Distance:
 Temperature: 21 °C
 Humidity: 61 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	26296.000	52.43	2.58	55.01	83.50	-28.49	peak	
2		26568.000	51.15	2.80	53.95	83.50	-29.55	peak	
3		26768.000	51.34	2.48	53.82	83.50	-29.68	peak	
4		26948.000	50.81	2.18	52.99	83.50	-30.51	peak	
5		27240.000	49.99	2.01	52.00	83.50	-31.50	peak	
6		27388.000	51.24	1.95	53.19	83.50	-30.31	peak	

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

File :A0110\Data :#33

Page: 1

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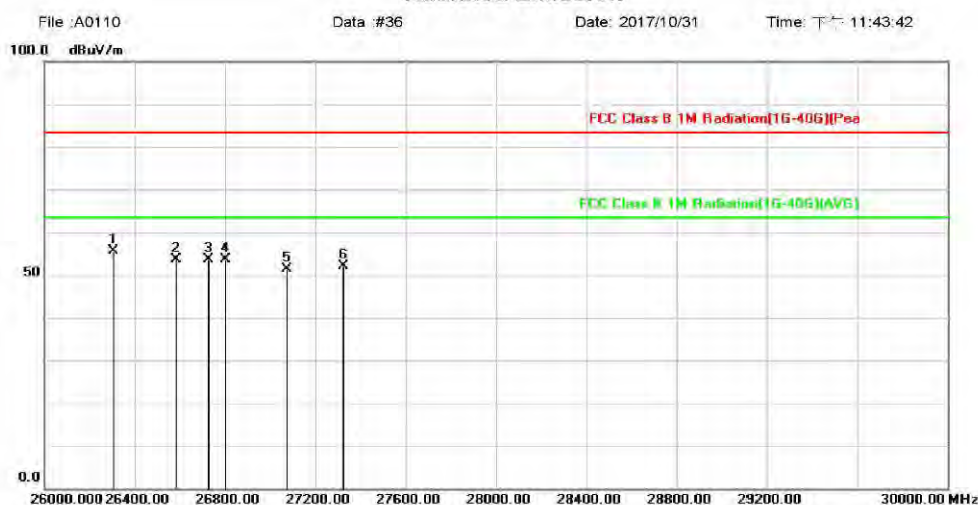
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Config_3_H

Site: SGS 966 Chamber A
 Limit: FCC Class B 1M Radiation(1G-40G)(Pea
 Mode: Config_3
 Note:
 Polarization: **Horizontal**
 Power: AC 120V/60Hz
 Distance:
 Temperature: 21 °C
 Humidity: 61 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	26308.000	52.93	2.59	55.52	83.50	-27.98	peak	
2		26584.000	50.93	2.76	53.69	83.50	-29.81	peak	
3		26728.000	51.09	2.54	53.63	83.50	-29.87	peak	
4		26800.000	51.27	2.42	53.69	83.50	-29.81	peak	
5		27072.000	49.29	2.07	51.36	83.50	-32.14	peak	
6		27324.000	50.15	1.97	52.12	83.50	-31.38	peak	

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

File :A0110\Data :#36

Page: 1

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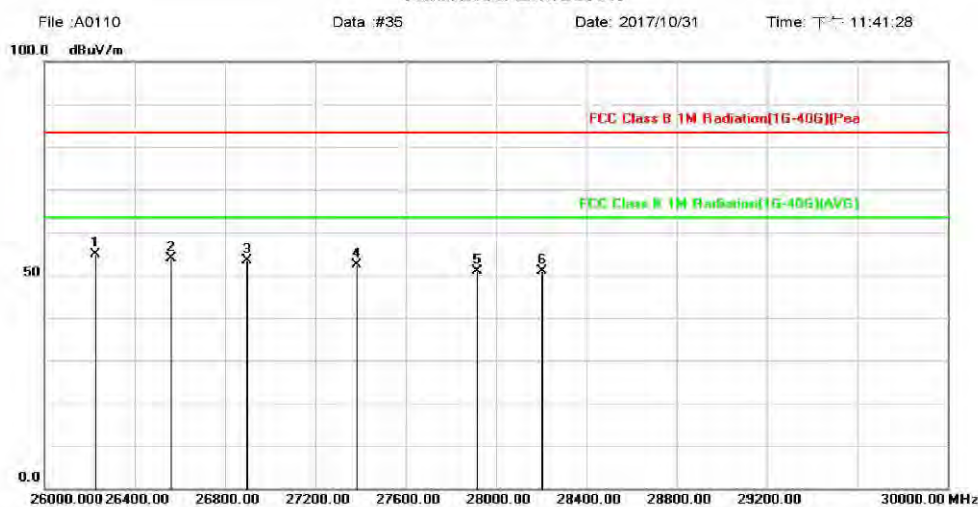
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Config_3_V

Site: SGS 966 Chamber A Polarization: **Vertical** Temperature: 21 °C
Limit: FCC Class B 1M Radiation(1G-40G)(Pea Power: AC 120V/60Hz Humidity: 61 %
Mode: Config_3 Distance:
Note:

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment			Detector	Comment
1	*	26224.000	52.49	2.45	54.94	83.50	-28.56	peak	
2		26564.000	51.03	2.80	53.83	83.50	-29.67	peak	
3		26900.000	51.02	2.26	53.28	83.50	-30.22	peak	
4		27384.000	50.32	1.94	52.26	83.50	-31.24	peak	
5		27916.000	48.97	1.99	50.96	83.50	-32.54	peak	
6		28204.000	48.85	1.92	50.77	83.50	-32.73	peak	

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

File :A0110\Data :#35

Page: 1

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