

FCC CERTIFICATION REPORT

Canada ISED ICES-003 TEST REPORT

Test Report No. : MH/2018/80064
Applicant : GOOGLE LLC
Address : 1600 AMPHITHEATRE PARKWAY MOUNTAIN VIEW ,
CALIFORNIA 94043
Manufacturer : GOOGLE LLC
Address : 1600 AMPHITHEATRE PARKWAY MOUNTAIN VIEW ,
CALIFORNIA 94043

Equipment Under Test (EUT) :
Product Name : Glass Enterprise Edition 2
Brand Name : GLASS
Model No. : GG2
Added Model(s) : N/A

Standards : FCC Part 15, Subpart B, Class B
Canada ICES-003 Issue 6, April 2017 Updated, Class B
FCC Designation Numbers : 916890 / TW1087

Date of Receipt : Aug. 09, 2018
Date of Test : Aug. 09 ~ Nov. 01, 2018
Date of Issue : Nov. 02, 2018

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.

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Tested By:

David Lee

Date

Nov. 02, 2018

David Lee (Engineer)

Approved By

Wisely Huang

Date

Nov. 02, 2018

Wisely Huang (Asst. Supervisor)



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Revision History

Report Number	Revision	Description	Issue Date
MH/2018/80064	Rev.00	Initial creation of document	Nov. 02, 2018

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1. General Information

1.1 Applicant & Manufacturer Information

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Manufacturer : GOOGLE LLC
Address of Manufacturer : 1600 AMPHITHEATRE PARKWAY MOUNTAIN VIEW ,
CALIFORNIA 94043

1.2 General Description of EUT

Product Name : Glass Enterprise Edition 2
Brand Name : GLASS
Model No. : GG2
Added Model(s) : N/A
Model Difference : N/A

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1.3 Details of EUT

Power Supply	: From System
Modes/Function	: Mode 1. EUT + USB Cable+Adapter + BT Link + Wifi2.4G Link + Recording Mode 2. EUT + USB Cable+Adapter + BT Link + Wifi5G Link + Recording Mode 3. EUT + USB Cable+Adapter + BT Link + Wifi Worst (2.4G/5G) Link + Play Recording Mode 4. EUT + USB Cable+Adapter + BT Standby + Wifi Worst(2.4G/5G) Idle + Worst(Recording/Play Recording) Mode 5. EUT+ USB Cable +NB Charing
Worst case	: CE, Below / Above RE worst case : Mode 2. EUT + USB Cable+Adapter + BT Link + Wifi5G Link + Recording
Highest operate description	: 5 GHz
Battery	: Pack Model No.: P-752438 Supplier : Dongguan Amperex Technology Limited 3.85V, 800mAh, 3.08Wh
USB Cable	: ECBL ASSY USB TYPE 30V 1M D LTS

1.4 Operation Procedure

Mode 1

1. Let EUT connect to the NB with USB cable, press the power button to turn on the EUT.
2. Click on the software "Vysor", click View to connect the computer software to the EUT.
3. Touch the EUT to determine if the touch function is normal.
4. Click on Settings, BT Link, Wifi 2.4G Link.
5. Turn on the camera function to recording and start testing.
6. Remove USB Cable and NB connection, replace USB Cable and connect Adapter and Start Testing.

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Mode 2

1. Let EUT connect to the NB with USB cable, press the power button to turn on the EUT.
2. Click on the software "Vysor", click View to connect the computer software to the EUT.
3. Touch the EUT to determine if the touch function is normal.
4. Click on Settings, BT Link, Wifi 5G Link.
5. Turn on the camera function to recording and start testing.
6. Remove USB Cable and NB connection, replace USB Cable and connect Adapter and Start Testing.

Mode 3

1. Let EUT connect to the NB with USB cable, press the power button to turn on the EUT.
2. Click on the software "Vysor", click View to connect the computer software to the EUT.
3. Touch the EUT to determine if the touch function is normal.
4. Click on Settings, BT Link, Wifi Worst(2.4G/5G) Link.
5. Play recording and start testing.
6. Remove USB Cable and NB connection, replace USB Cable and connect Adapter and Start Testing.

Mode 4

1. Let EUT connect to the NB with USB cable, press the power button to turn on the EUT.
2. Click on the software "Vysor", click View to connect the computer software to the EUT.
3. Touch the EUT to determine if the touch function is normal.
4. Click on Settings, BT Standby, Wifi Worst(2.4G/5G) Idle.
5. Worst (Recording/Play Recording) Function.
6. Remove USB Cable and NB connection, replace USB Cable and connect Adapter and Start Testing.

Mode 5

1. Let EUT connect to the NB for charging with USB cable.
- 2 Start testing.

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1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
BT Speaker	Creative	MF8090	YFMF8090245R00855Y
AP	BUFFALO	WZR-HP-G300NH2	44066221202559[[G]]
Notebook (Win10)	DELL	XPS15D-1828TTW	59WSJ72
Notebook (Win7)	DELL	Latitude E6440	CYRVQ32
Mouse	DELL	KB212-B	CN-OP7020-71581-538-00LS
Printer	HP	VCVRA-1004	CN33K19J3F
Adapter (By client)	GLASS	GG2	N/A
Adapter (By client)	Apple	A1401	N/A

Support Equipment Used in Tested Cable

Cable Type	Core	Length	Shielding/Non-shielding
Mouse Cable-②	N/A	1.7M	Non-shielding
Printer USB Cable-③	N/A	2.0M	Shielding

1.6 Modification List

No modification was made by SGS Taiwan Electronics & Communication Laboratory.

1.7 Accessories Cable List

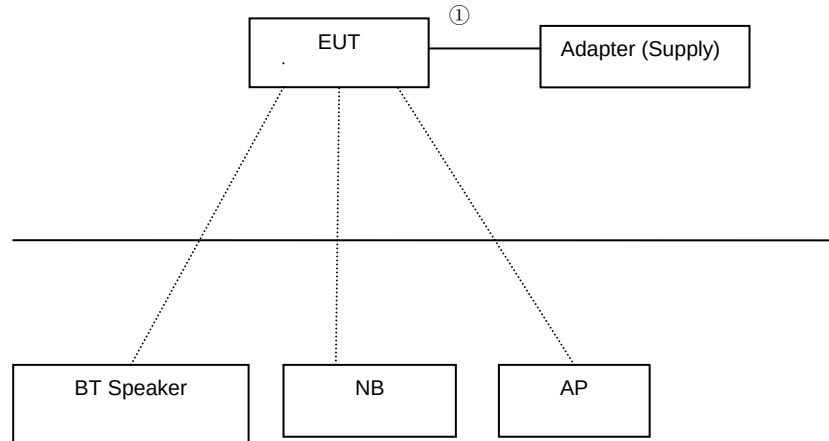
Cable Type	Core	Length	Shielding/Non-shielding
USB Cable-①	N/A	1.0M	Shielding

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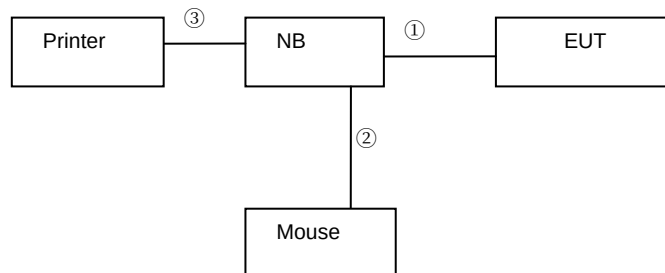
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1.8 Test Set-Up Configuration

Mode 1~4



Mode 5



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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 Canada ICES-003 Issue 6, April 2017 Updated, Class B	Conducted Emission	PASS	Line	0.1943	-26.67 (QP)
			Neutral	0.5478	-21.30 (AVG)
	Radiated Emission	PASS	Ver.	57.1600	-7.32 (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 1000-30000	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.B EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101300	2017/11/1	2018/10/31
Coaxial Cable	EMC Instruments Corp.	EMC5D-BM-BM-3000	1401004	2018/5/25	2019/5/24
LISN	TESEQ	NNB 51	36061	2018/2/26	2019/2/25
Pulse Limiter	R&S	ESH3Z2	102099	2018/6/8	2019/6/7
LISN	TESEQ	NNB 51	36062	2018/3/30	2019/3/29
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.
SGS Taiwan LTD. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Measurement Uncertainty of Conducted Emission Expanded uncertainty Ulab (K=2) of conducted emission is 2.25 dB Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of AC mains Conducted Emission is 3.44dB					

2.4.2 Operating Environment

Temperature : 22 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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2.4.4 Measurement Data:

Model No.:GG2

Mode_2_L

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Mode_2
Note:

Phase: L1
Power: AC 120V/60Hz

Temperature: 22 °C
Humidity: 64 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1604	18.32	19.67	37.99	65.44	-27.45	QP	
2		0.1604	3.21	19.67	22.88	55.44	-32.56	AVG	
3		0.1744	16.32	19.70	36.02	64.75	-28.73	QP	
4		0.1744	1.84	19.70	21.54	54.75	-33.21	AVG	
5 *		0.1943	17.45	19.73	37.18	63.85	-26.67	QP	
6		0.1943	3.02	19.73	22.75	53.85	-31.10	AVG	
7		0.2198	11.15	19.77	30.92	62.83	-31.91	QP	
8		0.2198	-0.25	19.77	19.52	52.83	-33.31	AVG	
9		0.2550	9.05	19.83	28.88	61.59	-32.71	QP	
10		0.2550	-1.88	19.83	17.95	51.59	-33.64	AVG	
11		0.3661	9.63	20.01	29.64	58.59	-28.95	QP	
12		0.3661	-1.77	20.01	18.24	48.59	-30.35	AVG	

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

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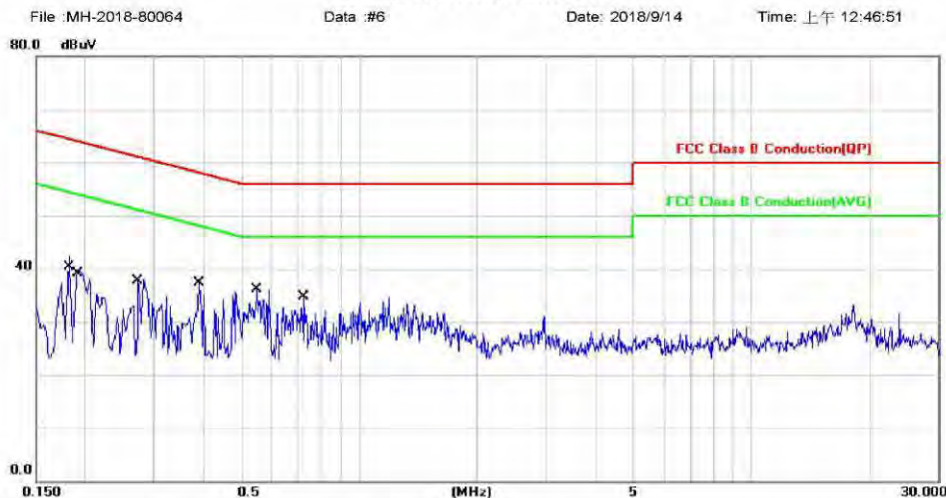
Mode_2_N

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Mode_2
Note:

Phase: N
Power: AC 120V/60Hz

Temperature: 22 °C
Humidity: 64 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1848	16.63	19.70	36.33	64.27	-27.94	QP	
2		0.1848	2.54	19.70	22.24	54.27	-32.03	AVG	
3		0.1895	14.93	19.70	34.63	64.06	-29.43	QP	
4		0.1895	2.46	19.70	22.16	54.06	-31.90	AVG	
5		0.2778	14.36	19.85	34.21	60.88	-26.67	QP	
6		0.2778	2.01	19.85	21.86	50.88	-29.02	AVG	
7		0.3932	12.07	20.04	32.11	58.00	-25.89	QP	
8		0.3932	-0.23	20.04	19.81	48.00	-28.19	AVG	
9		0.5478	11.32	20.18	31.50	56.00	-24.50	QP	
10	*	0.5478	4.52	20.18	24.70	46.00	-21.30	AVG	
11		0.7264	6.45	20.05	26.50	56.00	-29.50	QP	
12		0.7264	0.32	20.05	20.37	46.00	-25.63	AVG	

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

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

SGS Radiated_Below_1GHz HWAYA 10m EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100950	2017/12/12	2018/12/11
EMI Test Receiver	R&S	ESCI 3	101343	2018/1/31	2019/1/30
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	2018/9/7	2019/9/6
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	2018/9/7	2019/9/6
Pre Amplifier	EMC Instruments Corp.	EMC330	980178	2018/3/31	2019/3/30
Pre Amplifier	EMC Instruments Corp.	EMC330	980179	2018/3/31	2019/3/30
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150917	2018/9/18	2019/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150919	2018/9/18	2019/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150820	2018/9/18	2019/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150918	2018/9/18	2019/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150821	2018/9/18	2019/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150822	2018/9/18	2019/9/17
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site NSA	Chance Most	10M Chamber	10M SAC	2017/12/31	2018/12/30
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

SGS Taiwan LTD. Electronics & Communication Laboratory
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Measurement Uncertainty of Radiated Emission
Expanded uncertainty Ulab (K=2) of radiated emission is 4.09 dB. (30MHz ~ 1000MHz)
Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission is 5.22 dB. (30MHz ~ 1000MHz)

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Above 1GHz

SGS Radiated Above 1GHz HWAYA 966A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	101419	2018/5/15	2019/5/14
EMI Test Receiver	R&S	ESR 7	101459	2018/2/21	2019/2/20
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D673	2017/10/16	2018/10/15
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	2017/12/12	2018/12/11
Pre Amplifier	EMC Instruments Corp.	EMC012645B	980216	2018/3/31	2019/3/30
Pre Amplifier	EMC Instruments Corp.	EMC184045B	980135	2017/10/27	2018/10/26
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	2018/4/23	2019/4/22
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	30255/4PEA	2018/4/23	2019/4/22
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2018/4/23	2019/4/22
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2651/2	2018/6/5	2019/6/4
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2018/6/5	2019/6/4
Controller	MF	MF-7802	N.C.R.	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site VSWR	SGS	966 Chamber A	SAC-A	2018/1/12	2019/1/11
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

SGS Taiwan LTD. Electronics & Communication Laboratory
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Measurement Uncertainty of Radiated Emission
Expanded uncertainty (k=2) of radiated emission measurement is 5.05 dB. (1-6GHz)
Expanded uncertainty (k=2) of radiated emission measurement is 5.07 dB. (6-18GHz)
Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.19 dB. (18-26GHz)
Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.14 dB. (26-40GHz)
Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.18 dB.(1-6GHz)
Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.48 dB.(6-18GHz)
Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is ---- dB.(18-26GHz)
Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is ---- dB.(26-40GHz)

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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	2018/5/15	2019/5/14
EMI Test Receiver	R&S	ESR 7	101459	2018/2/21	2019/2/20
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D285	2018/10/26	2019/10/25
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	2017/12/12	2018/12/11
Pre Amplifier	EMC Instruments Corp.	EMC012645B	980216	2018/3/31	2019/3/30
Pre Amplifier	EMC Instruments Corp.	EMC184045B	980135	2018/10/27	2019/10/26
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	2018/4/23	2019/4/22
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	30255/4PEA	2018/4/23	2019/4/22
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2018/4/23	2019/4/22
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2651/2	2018/6/5	2019/6/4
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2018/6/5	2019/6/4
Controller	MF	MF-7802	N.C.R.	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site VSWR	SGS	966 Chamber A	SAC-A	2018/1/12	2019/1/11
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

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

Measurement Uncertainty of Radiated Emission

Expanded uncertainty (k=2) of radiated emission measurement is 5.05 dB. (1-6GHz)

Expanded uncertainty (k=2) of radiated emission measurement is 5.07 dB. (6-18GHz)

Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.19 dB. (18-26GHz)

Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.14 dB. (26-40GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.18 dB.(1-6GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.48 dB.(6-18GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is ---- dB.(18-26GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is ---- dB.(26-40GHz)

2.5.2 Operating Environment

Temperature : 24 degree C

Humidity : 66 %RH

Atmospheric Pressure : 996 mBar

2.5.3 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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2.5.4 Measurement Data

Below 1GHz

Model No.:GG2

X axial surface

Mode_2_H

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Mode_2
Note: EUT X Axial surface

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

Temperature: 24 °C
Humidity: 66 %

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	29.63	-12.40	17.23	30.00	-12.77	QP	
2		138.6400	25.01	-11.80	13.21	30.00	-16.79	QP	
3	*	360.0200	34.94	-8.62	26.32	37.00	-10.68	QP	
4		504.0300	30.65	-4.65	26.00	37.00	-11.00	QP	
5		850.6200	23.61	1.51	25.12	37.00	-11.88	QP	
6		938.8900	23.26	3.05	26.31	37.00	-10.69	QP	

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

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Mode_2_V

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Mode_2
Note: EUT X Axial surface

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

Temperature: 24 °C
Humidity: 66 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.0000	32.35	-12.10	20.25	30.00	-9.75	QP	
2	*	120.0000	34.15	-13.20	20.95	30.00	-9.05	QP	
3		360.0300	28.71	-8.60	20.11	37.00	-16.89	QP	
4		408.0150	31.38	-6.97	24.41	37.00	-12.59	QP	
5		731.3100	22.47	-0.85	21.62	37.00	-15.38	QP	
6		944.7100	22.47	1.93	24.40	37.00	-12.60	QP	

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

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Y axial surface Mode_2_H

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Mode_2
Note: EUT Y Axial surface

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

Temperature: 24 °C
Humidity: 66 %

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	*	52.3100	32.91	-11.07	21.84	30.00	-8.16	QP	
2		423.8200	32.51	-6.80	25.71	37.00	-11.29	QP	
3		743.9200	24.06	0.57	24.63	37.00	-12.37	QP	
4		844.8000	22.93	1.46	24.39	37.00	-12.61	QP	
5		882.6300	23.89	1.72	25.61	37.00	-11.39	QP	
6		932.1000	22.48	2.95	25.43	37.00	-11.57	QP	

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

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Mode_2_V

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Mode_2
Note: EUT Y Axial surface

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

Temperature: 24 °C
Humidity: 66 %

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		62.0100	28.70	-11.86	16.84	30.00	-13.16	QP	
2		150.2800	28.36	-10.77	17.59	30.00	-12.41	QP	
3		423.8200	35.32	-6.55	28.77	37.00	-8.23	QP	
4	*	743.9200	29.39	-0.24	29.15	37.00	-7.85	QP	
5		792.4200	25.17	0.37	25.54	37.00	-11.46	QP	
6		937.9200	23.35	1.98	25.33	37.00	-11.67	QP	

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

File: MH-2018-80064\Data: #87

Page: 1

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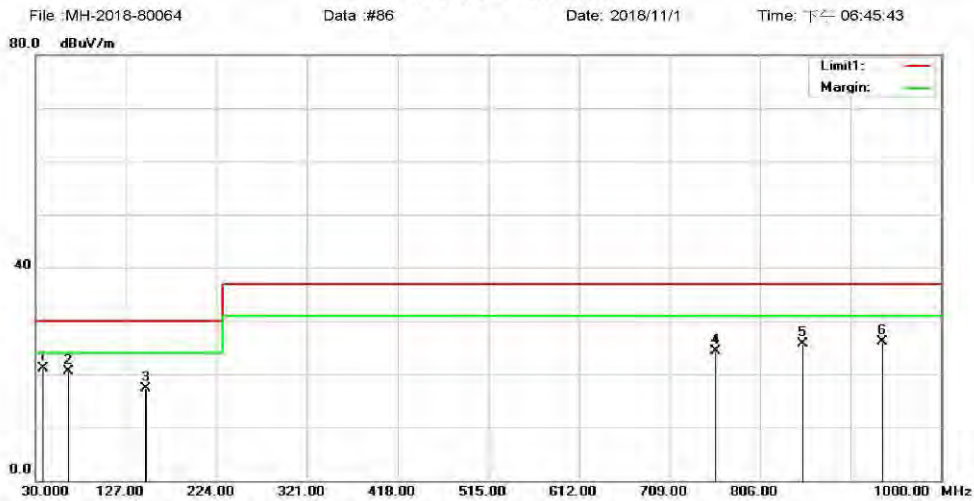
Z axial surface Mode_2_H

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Mode_2
Note: EUT Z Axial surface

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

Temperature: 24 °C
Humidity: 66 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
1	*	37.7600	32.98	-11.85	21.13	30.00	-8.87	QP	
2		65.8900	33.62	-13.05	20.57	30.00	-9.43	QP	
3		148.3400	28.36	-11.03	17.33	30.00	-12.67	QP	
4		758.4700	23.61	0.77	24.38	37.00	-12.62	QP	
5		851.5900	24.15	1.52	25.67	37.00	-11.33	QP	
6		936.9500	23.01	3.02	26.03	37.00	-10.97	QP	

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

File: MH-2018-80064\Data: #86

Page: 1

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Mode_2_V

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Mode_2
Note: EUT Z Axial surface

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

Temperature: 24 °C
Humidity: 66 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	*	57.1600	33.73	-11.05	22.68	30.00	-7.32	QP	
2		153.1900	28.40	-10.78	17.62	30.00	-12.38	QP	
3		359.8000	30.19	-8.60	21.59	37.00	-15.41	QP	
4		408.3000	32.39	-6.96	25.43	37.00	-11.57	QP	
5		851.5900	26.22	0.32	26.54	37.00	-10.46	QP	
6		943.7400	24.29	1.94	26.23	37.00	-10.77	QP	

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

File: MH-2018-80064\Data: #85

Page: 1

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Above 1GHz

Model No.:GG2

X axial surface

1GHz~18GHz

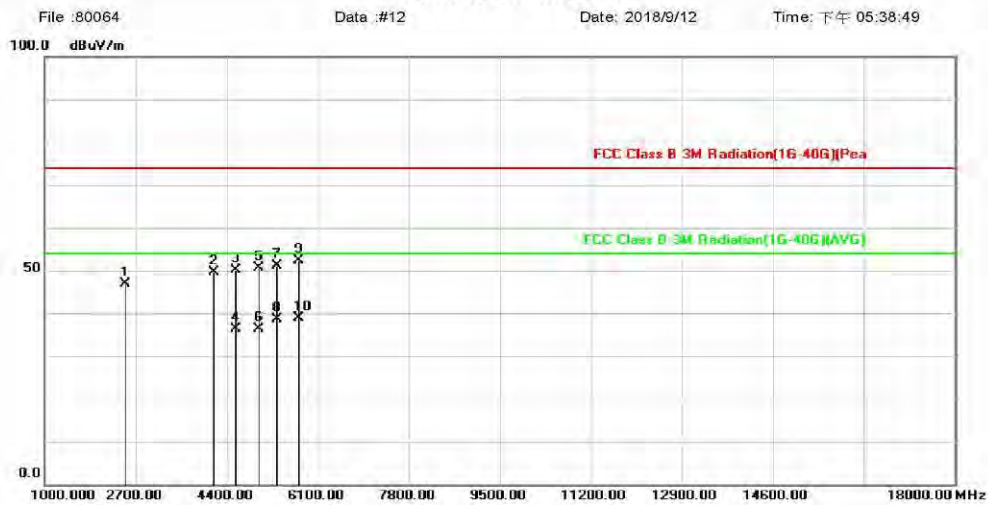
Mode_2_H

Site: SGS 966 Chamber A
Limit: FCC Class B 3M Radiation(1G-40G)(Pea
Mode: Mode 2
Note: EUT X Axial surface

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

Temperature: 22 °C
Humidity: 70 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2496.000	58.19	-11.29	46.90	74.00	-27.10	peak	
2		4162.000	57.73	-8.11	49.62	74.00	-24.38	peak	
3		4570.000	57.65	-7.62	50.03	74.00	-23.97	peak	
4		4570.000	44.05	-7.62	36.43	54.00	-17.57	AVG	
5		4995.000	57.77	-7.10	50.67	74.00	-23.33	peak	
6		4995.000	43.38	-7.10	36.28	54.00	-17.72	AVG	
7		5335.000	57.46	-6.43	51.03	74.00	-22.97	peak	
8		5335.000	45.02	-6.43	38.59	54.00	-15.41	AVG	
9		5743.000	57.73	-5.37	52.36	74.00	-21.64	peak	
10	*	5743.000	44.14	-5.37	38.77	54.00	-15.23	AVG	

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

File :80064\Data :#12

Page: 1

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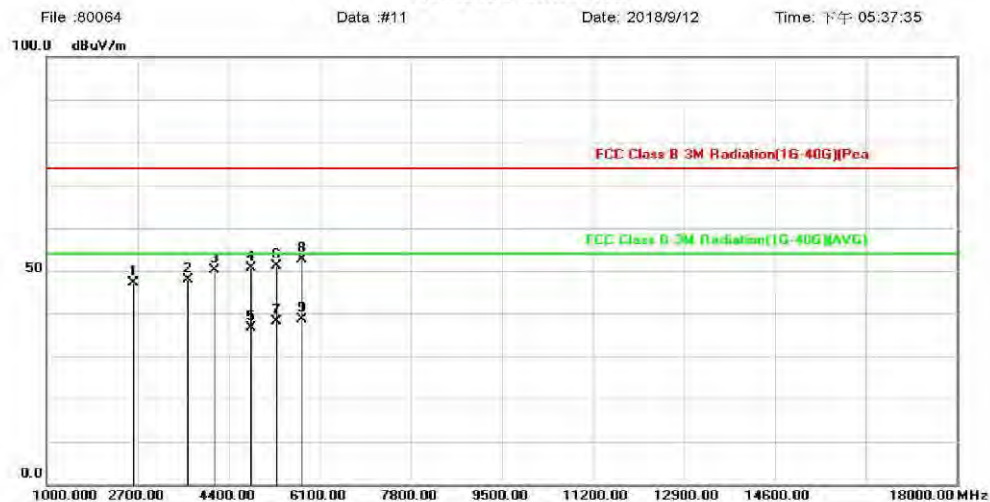
Mode_2_V

Site: SGS 966 Chamber A
Limit: FCC Class B 3M Radiation(1G-40G)(Pea
Mode: Mode 2
Note: EUT X Axial surface

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

Temperature: 22 °C
Humidity: 70 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2615.000	58.49	-11.41	47.08	74.00	-26.92	peak	
2		3635.000	57.78	-9.98	47.80	74.00	-26.20	peak	
3		4145.000	58.15	-8.13	50.02	74.00	-23.98	peak	
4		4808.000	58.07	-7.34	50.73	74.00	-23.27	peak	
5		4808.000	43.89	-7.34	36.55	54.00	-17.45	AVG	
6		5301.000	57.60	-6.50	51.10	74.00	-22.90	peak	
7		5301.000	44.74	-6.50	38.24	54.00	-15.76	AVG	
8		5777.000	57.80	-5.26	52.54	74.00	-21.46	peak	
9	*	5777.000	43.87	-5.26	38.61	54.00	-15.39	AVG	

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

File :80064\Data :#11

Page: 1

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18GHz~30GHz

Mode_2_H

Site: SGS 966 Chamber A
Limit: FCC Class B 1M Radiation(1G-40G)(Pea
Mode: Mode 2
Note: EUT X Axial surface

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

Temperature: 22 °C
Humidity: 70 %

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		18336.000	51.16	1.33	52.49	83.50	-31.01	peak	
2		19224.000	51.71	1.47	53.18	83.50	-30.32	peak	
3		20796.000	50.79	2.99	53.78	83.50	-29.72	peak	
4		23676.000	48.76	5.89	54.65	83.50	-28.85	peak	
5		24684.000	49.21	6.24	55.45	83.50	-28.05	peak	
6	*	26628.000	49.40	6.16	55.56	83.50	-27.94	peak	

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

File :80064\Data :#16

Page: 1

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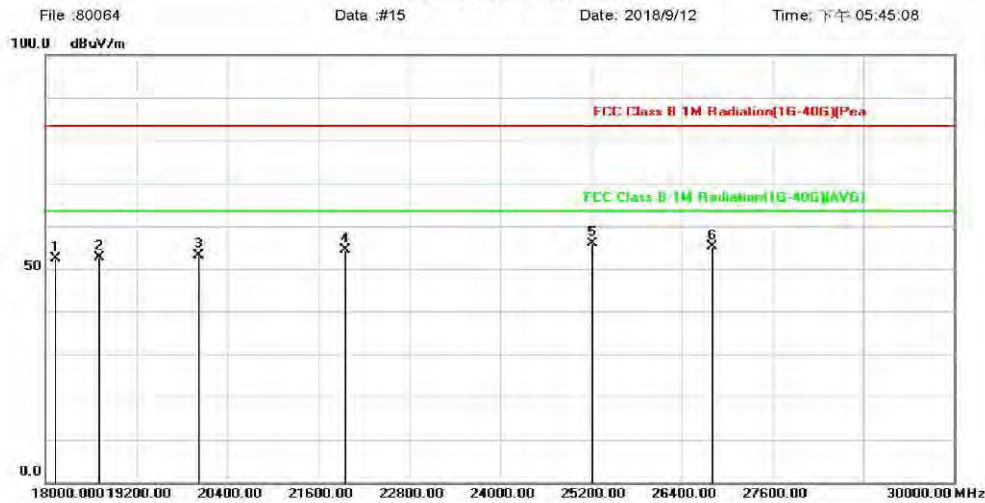
Mode_2_V

Site: SGS 966 Chamber A
Limit: FCC Class B 1M Radiation(1G-40G)(Pea
Mode: Mode 2
Note: EUT X Axial surface

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

Temperature: 22 °C
Humidity: 70 %

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		18132.000	50.82	1.49	52.31	83.50	-31.19	peak	
2		18708.000	51.39	1.24	52.63	83.50	-30.87	peak	
3		20028.000	50.52	2.70	53.22	83.50	-30.28	peak	
4		21960.000	49.35	4.93	54.28	83.50	-29.22	peak	
5 *		25224.000	50.12	5.81	55.93	83.50	-27.57	peak	
6		26808.000	48.98	6.07	55.05	83.50	-28.45	peak	

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

File :80064\Data :#15

Page: 1

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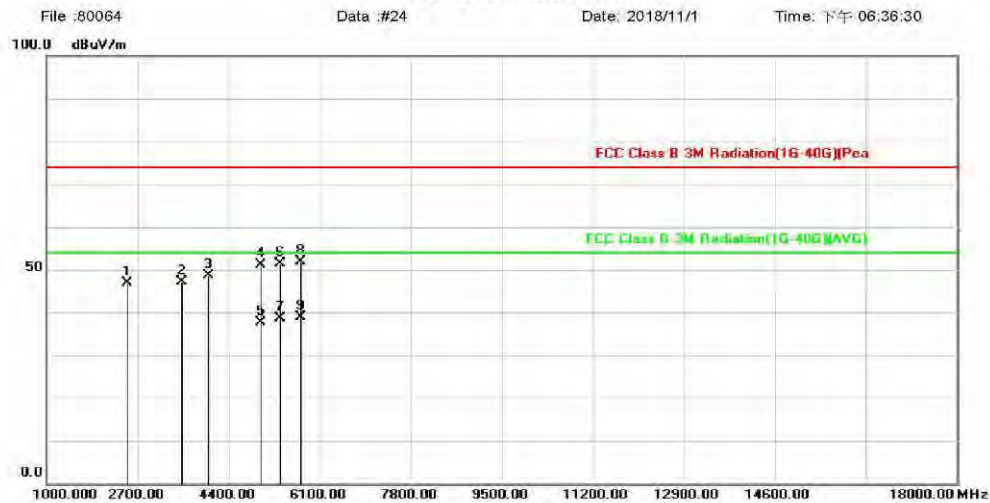
Y axial surface
1GHz~18GHz
Mode_2_H

Site: SGS 966 Chamber A
Limit: FCC Class B 3M Radiation(1G-40G)(Pea
Mode: Mode 2_
Note: EUT Y Axial surface

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

Temperature: 22 °C
Humidity: 70 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment			Detector	Comment
1		2496.000	58.19	-11.29	46.90	74.00	-27.10	peak	
2		3516.000	57.54	-10.52	47.02	74.00	-26.98	peak	
3		4026.000	56.87	-8.27	48.60	74.00	-25.40	peak	
4		4995.000	58.27	-7.10	51.17	74.00	-22.83	peak	
5		4995.000	44.61	-7.10	37.51	54.00	-16.49	AVG	
6		5369.000	57.74	-6.36	51.38	74.00	-22.62	peak	
7		5369.000	45.00	-6.36	38.64	54.00	-15.36	AVG	
8		5743.000	57.23	-5.37	51.86	74.00	-22.14	peak	
9 *		5743.000	44.29	-5.37	38.92	54.00	-15.08	AVG	

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

File :80064\Data :#24

Page: 1

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Mode_2_V

Site: SGS 966 Chamber A
Limit: FCC Class B 3M Radiation(1G-40G)(Pea
Mode: Mode 2
Note: EUT Y Axial surface

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

Temperature: 22 °C
Humidity: 70 %

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		2615.000	58.99	-11.41	47.58	74.00	-26.42	peak	
2		3635.000	57.78	-9.98	47.80	74.00	-26.20	peak	
3		4145.000	57.65	-8.13	49.52	74.00	-24.48	peak	
4		4808.000	56.57	-7.34	49.23	74.00	-24.77	peak	
5		5403.000	55.95	-6.30	49.65	74.00	-24.35	peak	
6		5777.000	56.30	-5.26	51.04	74.00	-22.96	peak	
7 *		5777.000	43.67	-5.26	38.41	54.00	-15.59	AVG	

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

File :80064\Data :#23

Page: 1

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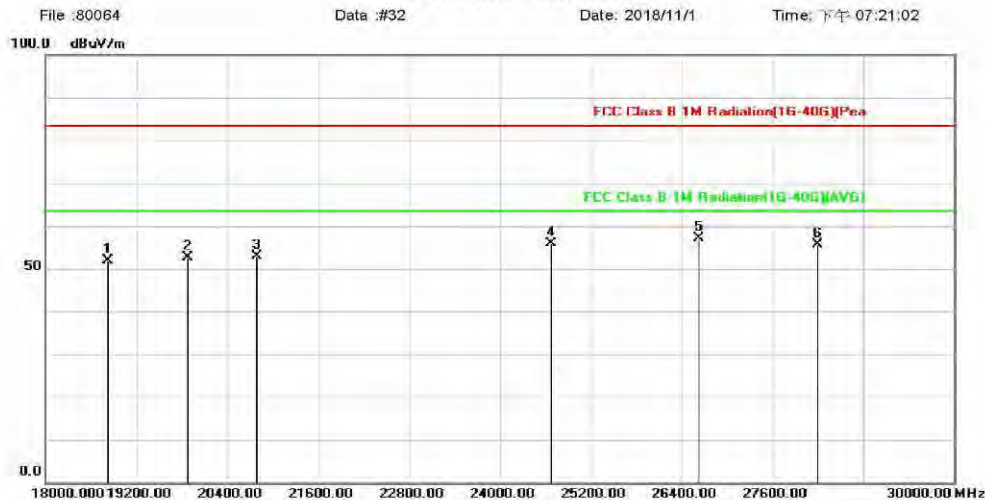
Mode_2_H

Site: SGS 966 Chamber A
Limit: FCC Class B 1M Radiation(1G-40G)(Pea
Mode: Mode 2
Note: EUT Y Axial surface

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

Temperature: 22 °C
Humidity: 70 %

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		18816.000	50.66	1.26	51.92	83.50	-31.58	peak	
2		19872.000	50.28	2.45	52.73	83.50	-30.77	peak	
3		20796.000	49.79	2.99	52.78	83.50	-30.72	peak	
4		24684.000	49.71	6.24	55.95	83.50	-27.55	peak	
5	*	26628.000	50.90	6.16	57.06	83.50	-26.44	peak	
6		28200.000	49.54	6.16	55.70	83.50	-27.80	peak	

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

File :80064\Data :#32

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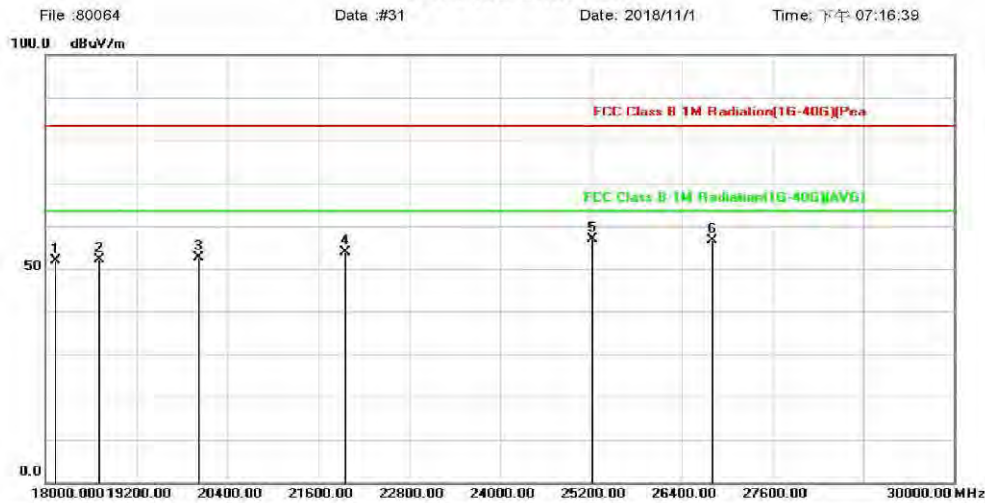
Mode_2_V

Site: SGS 966 Chamber A
Limit: FCC Class B 1M Radiation(1G-40G)(Pea
Mode: Mode 2
Note: EUT Y Axial surface

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

Temperature: 22 °C
Humidity: 70 %

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		18132.000	50.32	1.49	51.81	83.50	-31.69	peak	
2		18708.000	50.89	1.24	52.13	83.50	-31.37	peak	
3		20028.000	50.02	2.70	52.72	83.50	-30.78	peak	
4		21960.000	48.85	4.93	53.78	83.50	-29.72	peak	
5 *		25224.000	51.12	5.81	56.93	83.50	-26.57	peak	
6		26808.000	50.48	6.07	56.55	83.50	-26.95	peak	

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

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Z axial surface
1GHz~18GHz
Mode_2_H

Site: SGS 966 Chamber A
Limit: FCC Class B 3M Radiation(1G-40G)(Pea
Mode: Mode 2
Note: EUT Z Axial surface

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

Temperature: 22 °C
Humidity: 70 %

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		2496.000	59.19	-11.29	47.90	74.00	-26.10	peak	
2		3159.000	59.55	-11.63	47.92	74.00	-26.08	peak	
3		3873.000	57.68	-8.89	48.79	74.00	-25.21	peak	
4		4434.000	57.96	-7.78	50.18	74.00	-23.82	peak	
5		4893.000	57.81	-7.22	50.59	74.00	-23.41	peak	
6		5743.000	56.73	-5.37	51.36	74.00	-22.64	peak	
7 *		5743.000	44.04	-5.37	38.67	54.00	-15.33	AVG	

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

File :80064\Data :#22

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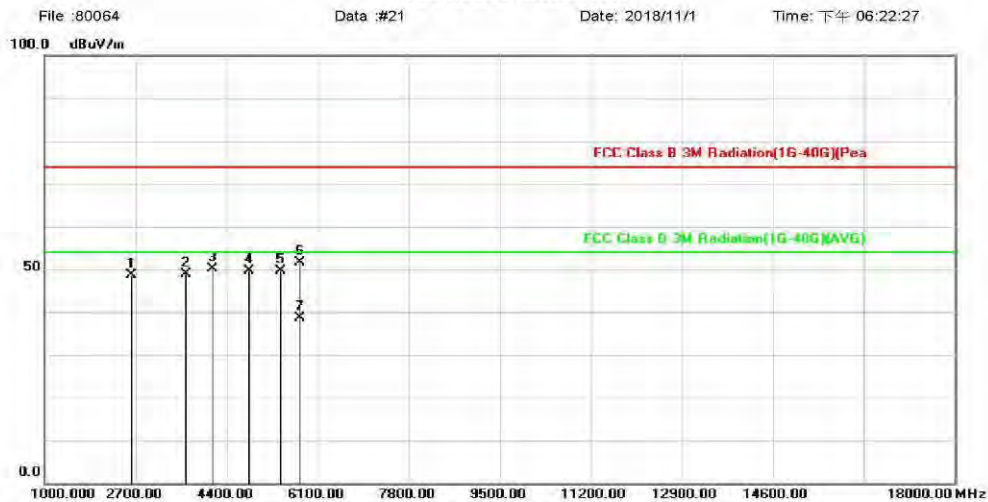
Mode_2_V

Site: SGS 966 Chamber A
Limit: FCC Class B 3M Radiation(1G-40G)(Pea
Mode: Mode 2
Note: EUT Z Axial surface

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

Temperature: 22 °C
Humidity: 70 %

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2615.000	59.99	-11.41	48.58	74.00	-25.42	peak	
2		3635.000	58.78	-9.98	48.80	74.00	-25.20	peak	
3		4145.000	58.15	-8.13	50.02	74.00	-23.98	peak	
4		4808.000	57.07	-7.34	49.73	74.00	-24.27	peak	
5		5403.000	55.95	-6.30	49.65	74.00	-24.35	peak	
6		5777.000	56.80	-5.26	51.54	74.00	-22.46	peak	
7 *		5777.000	43.85	-5.26	38.59	54.00	-15.41	AVG	

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

File :80064\Data :#21

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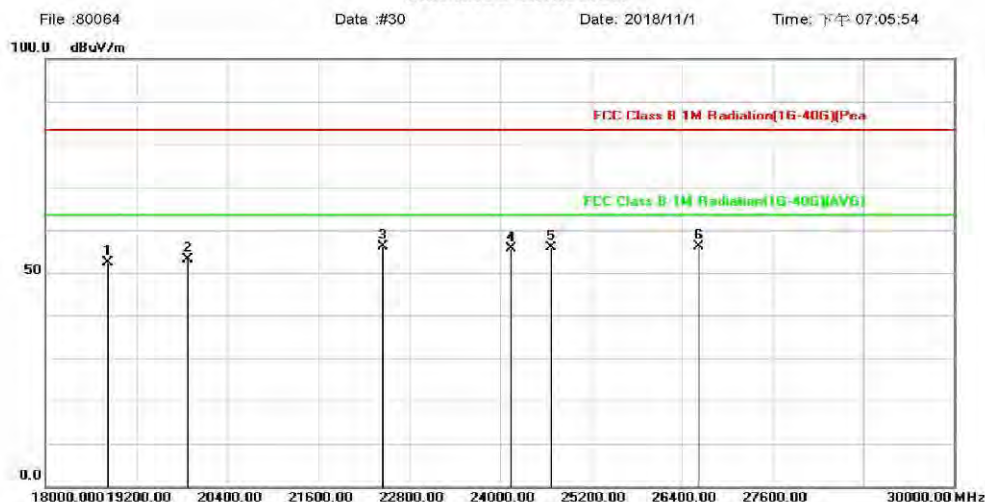
18GHz~30GHz Mode_2_H

Site: SGS 966 Chamber A
Limit: FCC Class B 1M Radiation(1G-40G)(Pea
Mode: Mode 2
Note: EUT Z Axial surface

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

Temperature: 22 °C
Humidity: 70 %

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		18816.000	51.16	1.26	52.42	83.50	-31.08	peak	
2		19872.000	50.78	2.45	53.23	83.50	-30.27	peak	
3 *		22452.000	50.81	5.36	56.17	83.50	-27.33	peak	
4		24156.000	49.53	5.99	55.52	83.50	-27.98	peak	
5		24684.000	49.71	6.24	55.95	83.50	-27.55	peak	
6		26628.000	49.90	6.16	56.06	83.50	-27.44	peak	

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

File :80064\Data :#30

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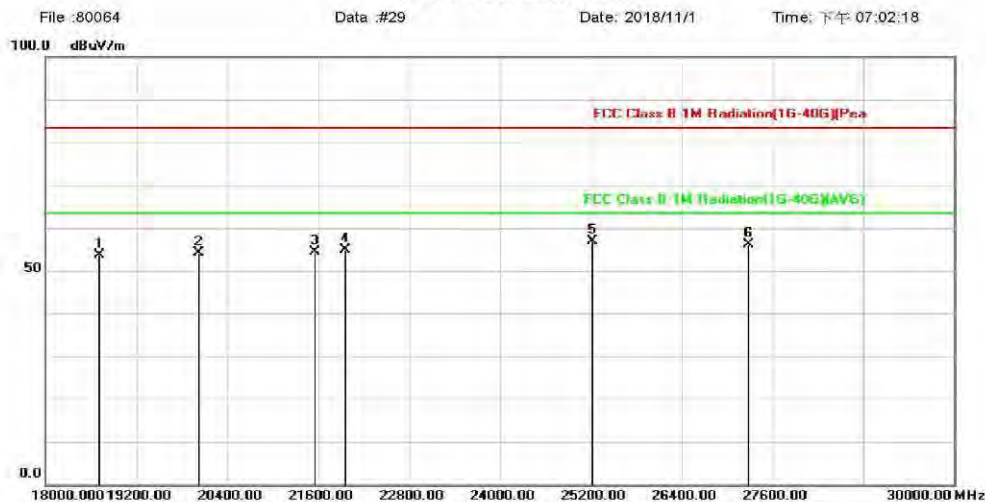
Mode_2_V

Site: SGS 966 Chamber A
Limit: FCC Class B 1M Radiation(1G-40G)(Pea
Mode: Mode 2
Note: EUT Z Axial surface

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

Temperature: 22 °C
Humidity: 70 %

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment			Detector	Comment
1		18708.000	52.39	1.24	53.63	83.50	-29.87	peak	
2		20028.000	51.52	2.70	54.22	83.50	-29.28	peak	
3		21564.000	50.14	4.22	54.36	83.50	-29.14	peak	
4		21960.000	49.85	4.93	54.78	83.50	-28.72	peak	
5	*	25224.000	51.12	5.81	56.93	83.50	-26.57	peak	
6		27288.000	49.80	6.29	56.09	83.50	-27.41	peak	

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

File :80064\Data :#29

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