

FCC CERTIFICATION REPORT

Test Report No. : MH/2018/90204

Applicant : Sharp Corporation, Mobile Communication B.U.

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

Manufacturer : Sharp Corporation

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

Equipment Under Test (EUT) :

Product Name : Smart Phone

Standards : FCC Part 15, Subpart B, Class B

FCC Designation Numbers : 916890 / TW1087

Date of Receipt : Sep. 20, 2018

Date of Test : Sep. 20 ~ Oct. 12, 2018

Date of Issue : Oct. 18, 2018

| | |
|---------------|------|
| 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.

This report shall not be reproduced except in full, without the written approval of the laboratory. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Tested By:

Thomas Liu

Thomas Liu (Engineer)

Date

Oct. 18, 2018

Approved By

Eddy Cheng

Eddy Cheng (Asst. Supervisor)

Date

Oct. 18, 2018



Testing Laboratory
0513

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Revision History

| Report Number | Revision | Description | Issue Date |
|---------------|----------|------------------------------|---------------|
| MH/2018/90204 | Rev.00 | Initial creation of document | Oct. 18, 2018 |
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1. General Information

1.1 Applicant & Manufacturer Information

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Manufacturer : Sharp Corporation
Address of Manufacturer : 1 Takumi-cho, Sakai-ku, Sakai-Shi, Osaka 590-8522, Japan

1.2 General Description of EUT

Product Name : Smart Phone

1.3 Details of EUT

Power Supply : AC 100~240V, 50/60Hz
Highest operate description : 1886 MHz
Battery : 3.85V, 3130mAh, 12.05Wh
Worst case : CE, Below / Above RE worst case : Config 2

| | |
|---|----------------------|
| | FCC ID : APYHRO00263 |
| 1 st Source (eMCP memory, UFS memory, Sub camera) | Worst case |
| 2 nd Source (eMCP memory, UFS memory, Sub camera) | V |

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| | | | |
|--|--|-------------------|---|
| Accessories List: AC Charger : Salom/XN-2QC25 Data Cable : Luxshare-ICT/L6KU2007-CS-H Conversion plug : Hosiden/RUITZA508AFZZ PHF : Sony / MDR-EX15AP | Config 1 | Config2 | Config 3 |
| Applicable standard | FCC 15B | | |
| Accessories | EUT + AC Adaptor +USB Cable | EUT +USB Cable | EUT +Conversion plug +PHF |
| Main function | Speech | Data Link | Camera |
| Additional function | BT+WiFi +GPS+NFC | | |
| Description | | | |
| radiated emission | GSM 850/1900 WCDMA BII/IV LTE B02/04/12/17 | Data R/W | MP3/ ;REC mode (Front/Back) ;play REC |
| conducted emission (DC Power) | NA | NA | NA |
| conducted emission (AC Power) | GSM 850/1900 WCDMA BII/IV LTE B02/04/12/17 | Data R/W | NA |

1.4 Operation Procedure

Config 1

1. Let EUT plug in SIM Card, connect to Adapter with USB cable and turn it on.
2. Execute 1k audio source.
3. NB & EUT link AP-WiFi (5G/2.4G), NB ping EUT IP.
4. BT Link BT Speaker and turn on NFC function.
5. Set up base station, set channel (GSM 850/1900, WCDMA B2/B4, LTE B2/B4/B12/B17) and transmitting data.
6. Set up GPS simulator and turn on GPS test app.
7. Start the test.

Config 2

1. Let EUT plug in SIM Card, connect to NB_1 with USB cable and turn it on.
2. Execute 1k audio source.
3. NB_2 & EUT link AP-WiFi Worst(5G/2.4G), NB ping EUT IP..
4. BT Link BT Speaker and turn on NFC function.
5. Set up GPS simulator and turn on GPS test app.
6. NB_1 execute Data Read/Write with EUT.
7. Start the test..

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Config 3

1. Let EUT plug in SIM Card, Connect the Audio Transfer Cable to the Earphone.
2. Execute 1k audio source.
3. NB_2 & EUT link AP-WiFi Worst(5G/2.4G), NB ping EUT IP..
4. BT Link BT Speaker and turn on NFC function.
5. Set up GPS simulator and turn on GPS test app.
6. Turn on Camera (Front/Rear) and execute Record.
7. Start the test.

1.5 Description of Support Units

| PRODUCT | MANUFACTURER | MODEL NO. | SERIAL NO. |
|------------------------------|--------------|----------------|-----------------------|
| SIM Card | R&S | CMW-Z05 | 8952530076180138474 |
| BT Speaker | Creative | MF8090 | YFMF8090245R00855Y |
| Radio Communication Analyzer | R&S | CMU200 | 102189 |
| Radio Communication Analyzer | R&S | CMW500 | 1201.002K50-152303-Zr |
| AP | BUFFALO | WZR-HP-G300NH2 | 44066221202559[[G]] |
| GPS Signal Generator | Spectracom | GSG53 GNSS4 | 200218 |
| Mouse | Logitech | M-U0026 | 1738HS05FH98 |
| Notebook | DELL | Latitude E6440 | CYRVQ32 |
| Earphone | SONY | MDR-EX15AP | N/A |
| Adapter | Salom | XN-2QC25 | N/A |
| Conversion plug | Hosiden | RUITZA508AFZZ | N/A |
| Printer | HP | VCVRA-1004 | CN33K19J3F |

Support Equipment Used in Tested Cable

| Cable Type | Core | Length | Shielding/Non-shielding |
|-------------|------|--------|-------------------------|
| USB Cable*2 | N/A | 1.8m | Shielding |

1.6 Modification List

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

1.7 Accessories Cable List

| Cable Type | Core | Length | Shielding/Non-shielding |
|----------------|------|--------|-------------------------|
| USB Cable | N/A | 1m | Shielding |
| Earphone Cable | N/A | 1.25m | Non-shielding |

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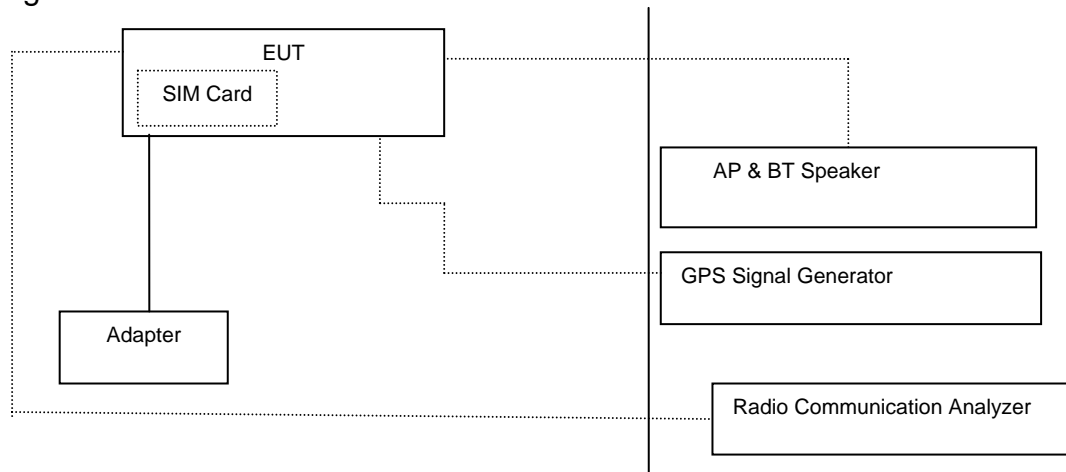
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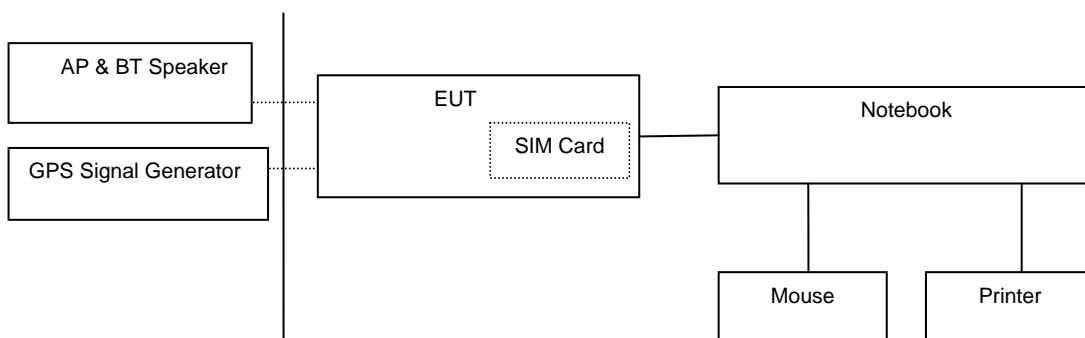


1.8 Test Set-Up Configuration

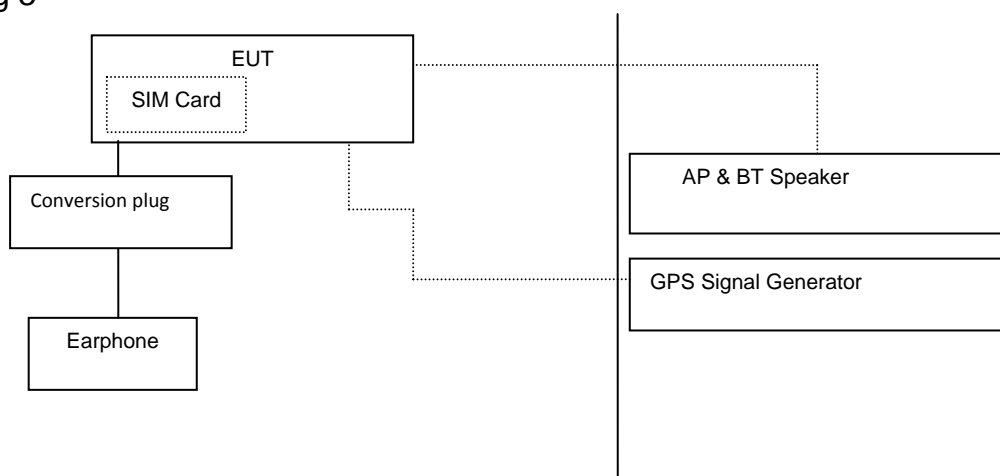
Config 1



Config 2



Config 3



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1.9 Measurement Procedure

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

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

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

1.10 Standards Applicable for Testing

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

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

1.11 Summary of Results

| Highest Emission | | | | | |
|----------------------------------|--------------------|--------|------------|----------------|--------------|
| Standard | Test Type | Result | Phase/Pol. | Frequency(MHz) | Margin(dB) |
| FCC Part 15 Subpart B Class B | Conducted Emission | PASS | Line | 0.3940 | -10.33 (AVG) |
| | | | Neutral | 0.3820 | -12.42 (AVG) |
| | Radiated Emission | PASS | Ver. | 39.3630 | -5.40 (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.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 |
| (*)LISN | TESEQ | NNB 51 | 36076 | 2018/2/14 | 2019/2/13 |
| Communication Tester | R&S | CMU200 | 119988 | 2018/2/22 | 2019/2/21 |
| Communication Tester | R&S | CMW500 | 152303 | 2018/2/21 | 2019/2/20 |
| 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 : 23 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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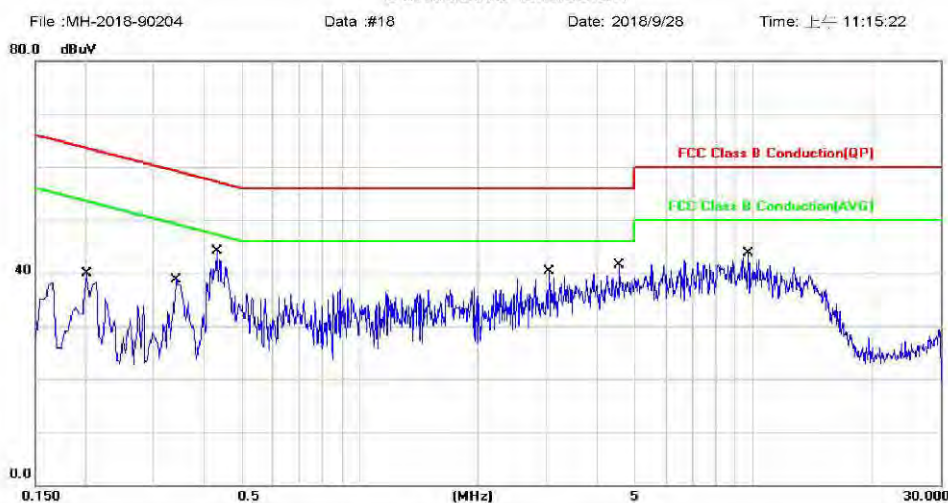


2.4.4 Measurement Data:

Config_1_L

Site : Conduction Room Phase: **L1** Temperature: 23 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 64 %
 Mode: config 1
 Note: WCDMA BII

Conducted Emission



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.2020 | 12.50 | 19.74 | 32.24 | 63.53 | -31.29 | QP | |
| 2 | | 0.2020 | 3.60 | 19.74 | 23.34 | 53.53 | -30.19 | AVG | |
| 3 | | 0.3420 | 9.90 | 19.97 | 29.87 | 59.15 | -29.28 | QP | |
| 4 | | 0.3420 | 3.10 | 19.97 | 23.07 | 49.15 | -26.08 | AVG | |
| 5 | | 0.4340 | 12.48 | 20.12 | 32.60 | 57.18 | -24.58 | QP | |
| 6 * | | 0.4340 | 5.24 | 20.12 | 25.36 | 47.18 | -21.82 | AVG | |
| 7 | | 3.0340 | 9.52 | 20.36 | 29.88 | 56.00 | -26.12 | QP | |
| 8 | | 3.0340 | 2.67 | 20.36 | 23.03 | 46.00 | -22.97 | AVG | |
| 9 | | 4.5940 | 11.78 | 20.07 | 31.85 | 56.00 | -24.15 | QP | |
| 10 | | 4.5940 | 3.35 | 20.07 | 23.42 | 46.00 | -22.58 | AVG | |
| 11 | | 9.7540 | 14.32 | 19.95 | 34.27 | 60.00 | -25.73 | QP | |
| 12 | | 9.7540 | 5.32 | 19.95 | 25.27 | 50.00 | -24.73 | AVG | |

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

File :MH-2018-90204\Data :#18

Page: 1

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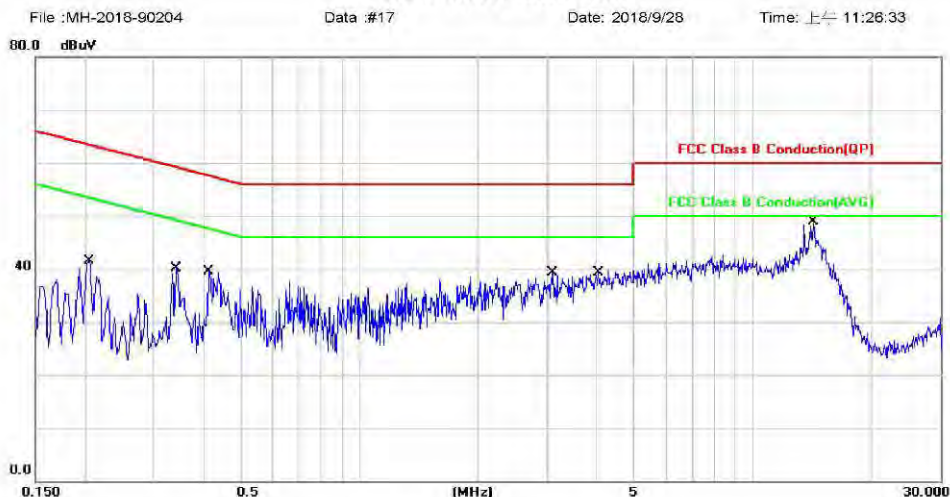
Config_1_N

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: config 1
Note: WCDMA BII

Phase: N
Power: AC 120V/60Hz

Temperature: 23 ℃
Humidity: 64 %

Conducted Emission



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.2060 | 15.60 | 19.73 | 35.33 | 63.37 | -28.04 | QP | |
| 2 | | 0.2060 | 6.80 | 19.73 | 26.53 | 53.37 | -26.84 | AVG | |
| 3 | | 0.3420 | 12.80 | 19.96 | 32.76 | 59.15 | -26.39 | QP | |
| 4 | | 0.3420 | 4.80 | 19.96 | 24.76 | 49.15 | -24.39 | AVG | |
| 5 | | 0.4140 | 13.81 | 20.08 | 33.89 | 57.57 | -23.68 | QP | |
| 6 * | | 0.4140 | 6.90 | 20.08 | 26.98 | 47.57 | -20.59 | AVG | |
| 7 | | 3.0980 | 10.30 | 20.33 | 30.63 | 56.00 | -25.37 | QP | |
| 8 | | 3.0980 | 2.30 | 20.33 | 22.63 | 46.00 | -23.37 | AVG | |
| 9 | | 4.0700 | 11.43 | 20.15 | 31.58 | 56.00 | -24.42 | QP | |
| 10 | | 4.0700 | 3.65 | 20.15 | 23.80 | 46.00 | -22.20 | AVG | |
| 11 | | 14.2300 | 13.30 | 19.99 | 33.29 | 60.00 | -26.71 | QP | |
| 12 | | 14.2300 | 2.90 | 19.99 | 22.89 | 50.00 | -27.11 | AVG | |

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

File :MH-2018-90204\Data :#17

Page: 1

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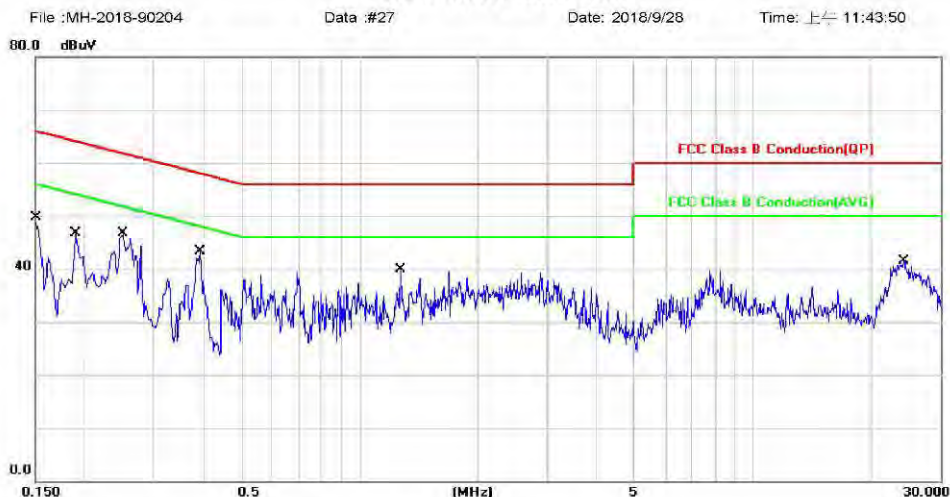
Config_2_L

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: config 2
Note: Data R/W read

Phase: L1
Power: AC 120V/60Hz

Temperature: 23 ℃
Humidity: 64 %

Conducted Emission



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.1500 | 27.80 | 19.65 | 47.45 | 66.00 | -18.55 | QP | |
| 2 | | 0.1500 | 13.70 | 19.65 | 33.35 | 56.00 | -22.65 | AVG | |
| 3 | | 0.1900 | 22.50 | 19.72 | 42.22 | 64.04 | -21.82 | QP | |
| 4 | | 0.1900 | 16.30 | 19.72 | 36.02 | 54.04 | -18.02 | AVG | |
| 5 | | 0.2500 | 25.20 | 19.82 | 45.02 | 61.76 | -16.74 | QP | |
| 6 | | 0.2500 | 17.50 | 19.82 | 37.32 | 51.76 | -14.44 | AVG | |
| 7 | | 0.3940 | 22.80 | 20.05 | 42.85 | 57.98 | -15.13 | QP | |
| 8 * | | 0.3940 | 17.60 | 20.05 | 37.65 | 47.98 | -10.33 | AVG | |
| 9 | | 1.2740 | 12.50 | 20.04 | 32.54 | 56.00 | -23.46 | QP | |
| 10 | | 1.2740 | 4.60 | 20.04 | 24.64 | 46.00 | -21.36 | AVG | |
| 11 | | 24.2380 | 14.84 | 20.13 | 34.97 | 60.00 | -25.03 | QP | |
| 12 | | 24.2380 | 6.65 | 20.13 | 26.78 | 50.00 | -23.22 | AVG | |

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

File :MH-2018-90204\Data :#27

Page: 1

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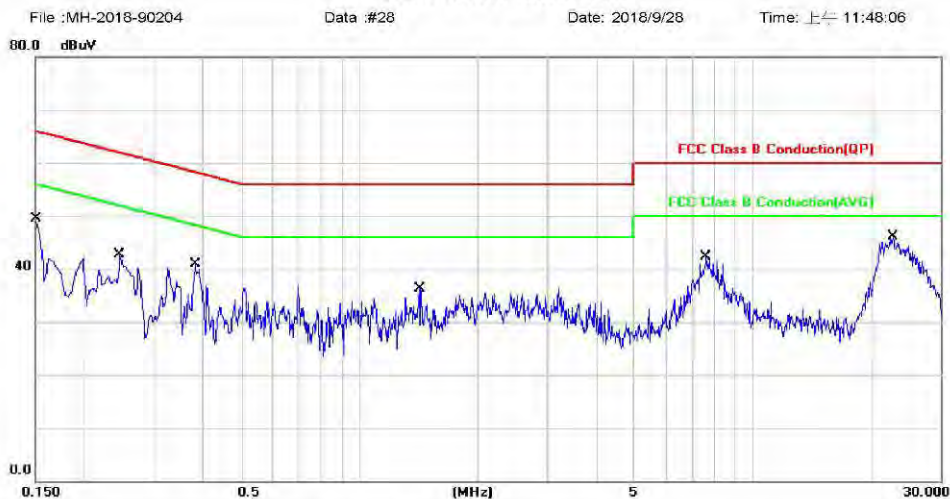
Config_2_N

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: config 2
Note: Data R/W read

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

Temperature: 23 ℃
Humidity: 64 %

Conducted Emission



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.1500 | 28.50 | 19.64 | 48.14 | 66.00 | -17.86 | QP | |
| 2 | | 0.1500 | 14.90 | 19.64 | 34.54 | 56.00 | -21.46 | AVG | |
| 3 | | 0.2460 | 21.30 | 19.80 | 41.10 | 61.89 | -20.79 | QP | |
| 4 | | 0.2460 | 9.90 | 19.80 | 29.70 | 51.89 | -22.19 | AVG | |
| 5 | | 0.3820 | 19.20 | 20.02 | 39.22 | 58.24 | -19.02 | QP | |
| 6 * | | 0.3820 | 15.80 | 20.02 | 35.82 | 48.24 | -12.42 | AVG | |
| 7 | | 1.4220 | 9.80 | 20.13 | 29.93 | 56.00 | -26.07 | QP | |
| 8 | | 1.4220 | 4.30 | 20.13 | 24.43 | 46.00 | -21.57 | AVG | |
| 9 | | 7.6260 | 16.90 | 19.96 | 36.86 | 60.00 | -23.14 | QP | |
| 10 | | 7.6260 | 10.50 | 19.96 | 30.46 | 50.00 | -19.54 | AVG | |
| 11 | | 22.7140 | 20.30 | 20.12 | 40.42 | 60.00 | -19.58 | QP | |
| 12 | | 22.7140 | 12.30 | 20.12 | 32.42 | 50.00 | -17.58 | AVG | |

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

File :MH-2018-90204\Data :#28

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 | 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 |
| Universal Digital Radio Communication Tester | R&S | CMU 200 | 119988 | 2018/2/22 | 2019/2/21 |
| Wideband Radio Communication Tester | R&S | CMW 500 | 152303 | 2018/2/21 | 2019/2/20 |
| Controller | MF | MF-7802 | N/A | N.C.R. | N.C.R. |
| Controller | MF | MF-7802 | N/A | N.C.R. | N.C.R. |
| Antenna Master | MF | N/A | N/A | N.C.R. | N.C.R. |
| Antenna Master | MF | N/A | N/A | N.C.R. | N.C.R. |
| Antenna Master | MF | N/A | N/A | N.C.R. | N.C.R. |
| Turn Table | MF | N/A | N/A | N.C.R. | N.C.R. |
| Site NSA | Chance Most | 10M Chamber | 10M SAC | 2017/12/31 | 2018/12/30 |
| Test S/W | Farad | EZ-EMC | Ver. SGS-03A2 | N.C.R. | N.C.R. |

SGS Taiwan LTD. Electronics & Communication Laboratory

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

Measurement Uncertainty of Radiated Emission

Expanded uncertainty U_{lab} (K=2) of radiated emission is 4.09 dB. (30MHz ~ 1000MHz)

Theory values uncertainty U_{cispr} 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 |
| Universal Digital Radio Communication Tester | R&S | CMU 200 | 119988 | 2018/2/22 | 2019/2/21 |
| Wideband Radio Communication Tester | R&S | CMW 500 | 152303 | 2018/2/21 | 2019/2/20 |
| Controller | MF | MF-7802 | N.C.R. | N.C.R. | N.C.R. |
| Antenna Master | MF | N/A | N/A | N.C.R. | N.C.R. |
| Turn Table | MF | N/A | N/A | N.C.R. | N.C.R. |
| Site VSWR | SGS | 966 Chamber A | SAC-A | 2018/1/12 | 2019/1/11 |
| Test S/W | Farad | EZ-EMC | Ver. SGS-03A2 | N.C.R. | N.C.R. |
| SGS Taiwan LTD. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Measurement Uncertainty of Radiated Emission Expanded uncertainty (k=2) of radiated emission measurement is 5.05 dB. (1-6GHz) Expanded uncertainty (k=2) of radiated emission measurement is 5.07 dB. (6-18GHz) Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.19 dB. (18-26GHz) Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.14 dB. (26-40GHz) Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.18 dB.(1-6GHz) Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.48 dB.(6-18GHz) Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is ---- dB.(18-26GHz) Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is ---- dB.(26-40GHz) | | | | | |

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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

Config_1_H

Site: SGS 10m Chamber
 Limit: CISPR22 Class B 10M Radiation
 Mode: Config_1
 Note: WCDMA_B4

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 | | 30.2990 | 25.31 | -12.41 | 12.90 | 30.00 | -17.10 | QP | |
| 2 | | 45.4860 | 23.50 | -11.10 | 12.40 | 30.00 | -17.60 | QP | |
| 3 | | 147.1010 | 24.37 | -10.97 | 13.40 | 30.00 | -16.60 | QP | |
| 4 | | 760.3300 | 23.43 | 0.77 | 24.20 | 37.00 | -12.80 | QP | |
| 5 | | 927.9520 | 23.31 | 2.89 | 26.20 | 37.00 | -10.80 | QP | |
| 6 * | | 966.6020 | 23.50 | 3.10 | 26.60 | 37.00 | -10.40 | QP | |

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

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Page: 1

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Config_1_V

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Config_1
Note: WCDMA_B4

Polarization: **Vertical**
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 | | 32.3740 | 28.05 | -12.05 | 16.00 | 30.00 | -14.00 | QP | |
| 2 | * | 40.3320 | 30.07 | -11.47 | 18.60 | 30.00 | -11.40 | QP | |
| 3 | | 55.7880 | 27.12 | -11.02 | 16.10 | 30.00 | -13.90 | QP | |
| 4 | | 933.0100 | 22.63 | 1.97 | 24.60 | 37.00 | -12.40 | QP | |
| 5 | | 978.0040 | 22.34 | 2.06 | 24.40 | 37.00 | -12.60 | QP | |
| 6 | | 987.8160 | 22.38 | 2.12 | 24.50 | 37.00 | -12.50 | QP | |

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

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Config_2_H

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Config_2
Note: data write

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 | | 32.3790 | 30.89 | -12.29 | 18.60 | 30.00 | -11.40 | QP | |
| 2 | | 119.2400 | 32.00 | -13.50 | 18.50 | 30.00 | -11.50 | QP | |
| 3 | | 824.2960 | 23.41 | 1.19 | 24.60 | 37.00 | -12.40 | QP | |
| 4 | | 913.4100 | 23.62 | 2.28 | 25.90 | 37.00 | -11.10 | QP | |
| 5 * | | 952.3510 | 23.28 | 3.22 | 26.50 | 37.00 | -10.50 | QP | |
| 6 | | 987.0760 | 23.40 | 2.90 | 26.30 | 37.00 | -10.70 | QP | |

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

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Page: 1

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Config_2_V

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Config_2
Note: data write

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

Temperature: 24 °C
Humidity: 66 %

Radiated Emission



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB/m | Measurement dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|-----------|--------------------|---------------------|--------------------|--------------|---------|----------|---------|
| 1 | * | 39.3630 | 36.09 | -11.49 | 24.60 | 30.00 | -5.40 | QP | |
| 2 | | 45.7960 | 25.38 | -10.88 | 14.50 | 30.00 | -15.50 | QP | |
| 3 | | 96.2530 | 35.38 | -16.48 | 18.90 | 30.00 | -11.10 | QP | |
| 4 | | 259.6460 | 37.91 | -11.71 | 26.20 | 37.00 | -10.80 | QP | |
| 5 | | 927.1350 | 22.73 | 1.87 | 24.60 | 37.00 | -12.40 | QP | |
| 6 | | 956.2750 | 22.58 | 1.92 | 24.50 | 37.00 | -12.50 | QP | |

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

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Page: 1

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Config_3_H

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

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

Temperature: 24 °C
Humidity: 66 %

Radiated Emission



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

File: MH-2018-90204\Data: #44

Page: 1

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Config_3_V

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

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

Temperature: 24 °C
Humidity: 66 %

Radiated Emission



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB/m | Measurement dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|-----------|--------------------|---------------------|--------------------|--------------|---------|----------|---------|
| 1 | | 42.4020 | 24.04 | -11.14 | 12.90 | 30.00 | -17.10 | QP | |
| 2 | | 152.9500 | 23.99 | -10.79 | 13.20 | 30.00 | -16.80 | QP | |
| 3 | | 908.4910 | 22.58 | 1.72 | 24.30 | 37.00 | -12.70 | QP | |
| 4 | * | 943.2340 | 22.56 | 1.94 | 24.50 | 37.00 | -12.50 | QP | |
| 5 | | 966.2790 | 22.41 | 1.89 | 24.30 | 37.00 | -12.70 | QP | |
| 6 | | 984.1580 | 22.26 | 2.04 | 24.30 | 37.00 | -12.70 | QP | |

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

File: MH-2018-90204\Data: #43

Page: 1

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Above 1GHz

1GMz-18GMz

Config_1_H

Site: SGS 966 Chamber A

Polarization: **Horizontal**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 1

Distance:

Note:

Radiated Emission

File :90204

Data :#10

Date: 2018/10/1

Time: 下午 05:40:19

100.0 dBuV/m



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | Defector | Comment |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | |
| 1 | | 2581.000 | 58.35 | -11.35 | 47.00 | 74.00 | -27.00 | peak | |
| 2 | | 3533.000 | 58.84 | -10.45 | 48.39 | 74.00 | -25.61 | peak | |
| 3 | | 4281.000 | 58.24 | -7.97 | 50.27 | 74.00 | -23.73 | peak | |
| 4 | | 4995.000 | 57.98 | -7.10 | 50.88 | 74.00 | -23.12 | peak | |
| 5 | | 5369.000 | 57.43 | -6.36 | 51.07 | 74.00 | -22.93 | peak | |
| 6 | | 5369.000 | 44.47 | -6.36 | 38.11 | 54.00 | -15.89 | AVG | |
| 7 | | 5845.000 | 57.53 | -5.07 | 52.46 | 74.00 | -21.54 | peak | |
| 8 * | | 5845.000 | 43.50 | -5.07 | 38.43 | 54.00 | -15.57 | AVG | |

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

File :90204\Data :#10

Page: 1

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Config_1_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 1

Distance:

Note:

Radiated Emission

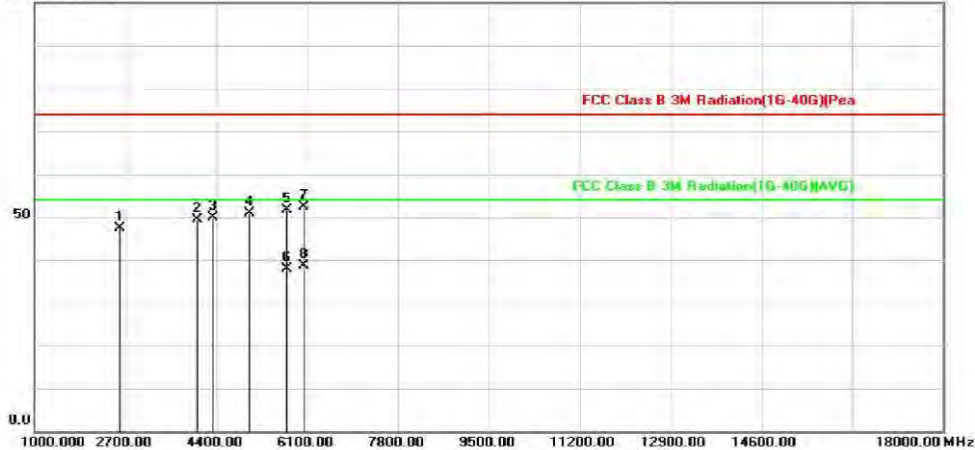
File :90204

Data :#9

Date: 2018/10/1

Time: 下午 05:37:04

100.0 dBuV/m



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | | |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
| | | MHz | Level | Factor | ment | | | Defector | Comment |
| | | | dBuV | dB/m | dBuV/m | dBuV/m | dB | | |
| 1 | | 2598.000 | 58.71 | -11.36 | 47.35 | 74.00 | -26.65 | peak | |
| 2 | | 4043.000 | 57.74 | -8.25 | 49.49 | 74.00 | -24.51 | peak | |
| 3 | | 4332.000 | 57.67 | -7.91 | 49.76 | 74.00 | -24.24 | peak | |
| 4 | | 5012.000 | 57.88 | -7.08 | 50.80 | 74.00 | -23.20 | peak | |
| 5 | | 5726.000 | 57.10 | -5.41 | 51.69 | 74.00 | -22.31 | peak | |
| 6 | | 5726.000 | 43.29 | -5.41 | 37.88 | 54.00 | -16.12 | AVG | |
| 7 | | 6049.000 | 56.68 | -4.24 | 52.44 | 74.00 | -21.56 | peak | |
| 8 * | | 6049.000 | 42.78 | -4.24 | 38.54 | 54.00 | -15.46 | AVG | |

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

File :90204\Data :#9

Page: 1

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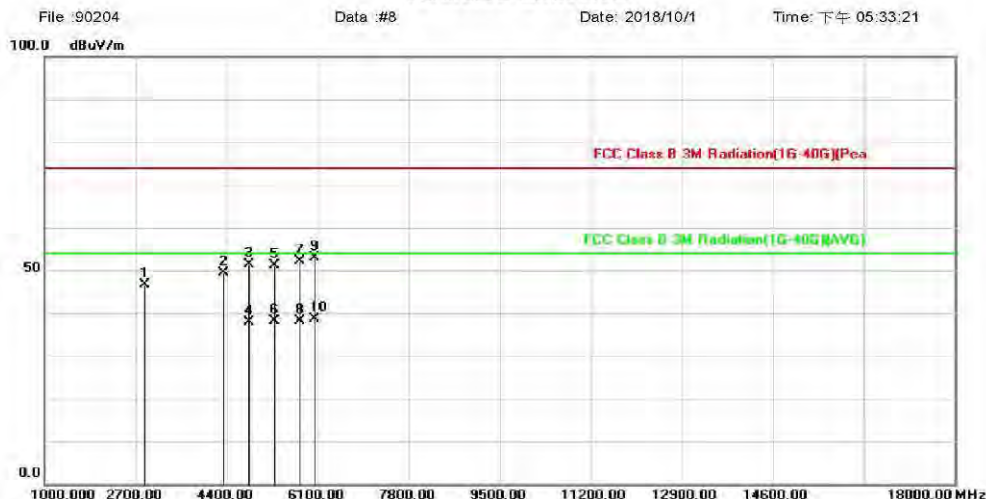
Config_2_H

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

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

Temperature: 24 °C
 Humidity: 60 %

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 | | 2870.000 | 58.59 | -11.87 | 46.72 | 74.00 | -27.28 | peak | |
| 2 | | 4332.000 | 57.35 | -7.91 | 49.44 | 74.00 | -24.56 | peak | |
| 3 | | 4808.000 | 58.81 | -7.34 | 51.47 | 74.00 | -22.53 | peak | |
| 4 | | 4808.000 | 45.29 | -7.34 | 37.95 | 54.00 | -16.05 | AVG | |
| 5 | | 5284.000 | 57.62 | -6.53 | 51.09 | 74.00 | -22.91 | peak | |
| 6 | | 5284.000 | 44.67 | -6.53 | 38.14 | 54.00 | -15.86 | AVG | |
| 7 | | 5777.000 | 57.31 | -5.26 | 52.05 | 74.00 | -21.95 | peak | |
| 8 | | 5777.000 | 43.49 | -5.26 | 38.23 | 54.00 | -15.77 | AVG | |
| 9 | | 6049.000 | 57.13 | -4.24 | 52.89 | 74.00 | -21.11 | peak | |
| 10 * | | 6049.000 | 42.75 | -4.24 | 38.51 | 54.00 | -15.49 | AVG | |

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

File :90204\Data :#8

Page: 1

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Config_2_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 2

Distance:

Note:

Radiated Emission

File :90204

Data :#7

Date: 2018/10/1

Time: 下午 05:31:12

100.0 dBuV/m



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | Defector | Comment |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | |
| 1 | | 2292.000 | 60.12 | -13.84 | 46.28 | 74.00 | -27.72 | peak | |
| 2 | | 2581.000 | 58.22 | -11.35 | 46.87 | 74.00 | -27.13 | peak | |
| 3 | | 4009.000 | 58.32 | -8.29 | 50.03 | 74.00 | -23.97 | peak | |
| 4 | | 4434.000 | 58.01 | -7.78 | 50.23 | 74.00 | -23.77 | peak | |
| 5 | | 5029.000 | 57.59 | -7.04 | 50.55 | 74.00 | -23.45 | peak | |
| 6 | | 5658.000 | 59.07 | -5.63 | 53.44 | 74.00 | -20.56 | peak | |
| 7 * | | 5658.000 | 44.44 | -5.63 | 38.81 | 54.00 | -15.19 | AVG | |

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

File :90204\Data :#7

Page: 1

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Config_3_H

Site: SGS 966 Chamber A

Polarization: **Horizontal**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 3

Distance:

Note:

Radiated Emission

File :90204

Data :#12

Date: 2018/10/1

Time: 下午 05:53:53

100.0 dBuV/m



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB/m | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Defector | Comment |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 2666.000 | 57.73 | -11.49 | 46.24 | 74.00 | -27.76 | peak | |
| 2 | | 3686.000 | 58.16 | -9.74 | 48.42 | 74.00 | -25.58 | peak | |
| 3 | | 4264.000 | 58.12 | -7.99 | 50.13 | 74.00 | -23.87 | peak | |
| 4 | | 4876.000 | 58.08 | -7.24 | 50.84 | 74.00 | -23.16 | peak | |
| 5 | | 5743.000 | 57.46 | -5.37 | 52.09 | 74.00 | -21.91 | peak | |
| 6 | | 5743.000 | 43.18 | -5.37 | 37.81 | 54.00 | -16.19 | AVG | |
| 7 | | 6134.000 | 56.79 | -3.65 | 53.14 | 74.00 | -20.86 | peak | |
| 8 * | | 6134.000 | 42.21 | -3.65 | 38.56 | 54.00 | -15.44 | AVG | |

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

File :90204\Data :#12

Page: 1

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Config_3_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 3

Distance:

Note:

Radiated Emission

File :90204

Data :#11

Date: 2018/10/1

Time: 下午 05:51:28

100.0 dBuV/m



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | Defector | Comment |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | |
| 1 | | 3193.000 | 60.32 | -11.52 | 48.80 | 74.00 | -25.20 | peak | |
| 2 | | 4026.000 | 57.49 | -8.27 | 49.22 | 74.00 | -24.78 | peak | |
| 3 | | 4264.000 | 57.66 | -7.99 | 49.67 | 74.00 | -24.33 | peak | |
| 4 | | 4757.000 | 58.52 | -7.40 | 51.12 | 74.00 | -22.88 | peak | |
| 5 | | 4757.000 | 44.84 | -7.40 | 37.44 | 54.00 | -16.56 | AVG | |
| 6 | | 5403.000 | 57.72 | -6.30 | 51.42 | 74.00 | -22.58 | peak | |
| 7 | | 5403.000 | 44.40 | -6.30 | 38.10 | 54.00 | -15.90 | AVG | |
| 8 | | 5811.000 | 57.05 | -5.17 | 51.88 | 74.00 | -22.12 | peak | |
| 9 * | | 5811.000 | 43.70 | -5.17 | 38.53 | 54.00 | -15.47 | AVG | |

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

File :90204\Data :#11

Page: 1

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18GMz-30GMz

Config_1_H

Site: SGS 966 Chamber A

Polarization: **Horizontal**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 1

Distance:

Note:

Radiated Emission

File :90204

Data :#20

Date: 2018/10/1

Time: 下午 06:12:17

100.0 dBuV/m



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | | |
|-----|-----|-----------|---------|---------|----------|--------|--------|----------|---------|
| | | MHz | Level | Factor | ment | | | Defector | Comment |
| | | | dBuV | dB/m | dBuV/m | dBuV/m | dB | | |
| 1 | | 18804.000 | 54.35 | 1.26 | 55.61 | 83.50 | -27.89 | peak | |
| 2 | | 19620.000 | 53.74 | 1.94 | 55.68 | 83.50 | -27.82 | peak | |
| 3 | | 21912.000 | 53.17 | 4.83 | 58.00 | 83.50 | -25.50 | peak | |
| 4 | | 23700.000 | 51.74 | 5.90 | 57.64 | 83.50 | -25.86 | peak | |
| 5 * | | 25236.000 | 53.04 | 5.78 | 58.82 | 83.50 | -24.68 | peak | |
| 6 | | 26304.000 | 50.98 | 5.96 | 56.94 | 83.50 | -26.56 | peak | |

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

File :90204\Data :#20

Page: 1

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Config_1_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 1

Distance:

Note:

Radiated Emission

File :90204

Data :#19

Date: 2018/10/1

Time: 下午 06:10:00

100.0 dBuV/m



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | | |
|-----|-----|-----------|---------|---------|----------|--------|--------|----------|---------|
| | | MHz | Level | Factor | ment | | | Defector | Comment |
| | | | dBuV | | dBuV/m | dBuV/m | dB | | |
| 1 | | 19740.000 | 53.59 | 2.18 | 55.77 | 83.50 | -27.73 | peak | |
| 2 | | 20796.000 | 53.86 | 2.99 | 56.85 | 83.50 | -26.65 | peak | |
| 3 | | 22068.000 | 52.53 | 5.05 | 57.58 | 83.50 | -25.92 | peak | |
| 4 | * | 22548.000 | 52.85 | 5.41 | 58.26 | 83.50 | -25.24 | peak | |
| 5 | | 25044.000 | 51.61 | 6.20 | 57.81 | 83.50 | -25.69 | peak | |
| 6 | | 26292.000 | 50.85 | 5.96 | 56.81 | 83.50 | -26.69 | peak | |

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

File :90204\Data :#19

Page: 1

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Config_2_H

Site: SGS 966 Chamber A

Polarization: **Horizontal**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 2

Distance:

Note:

Radiated Emission

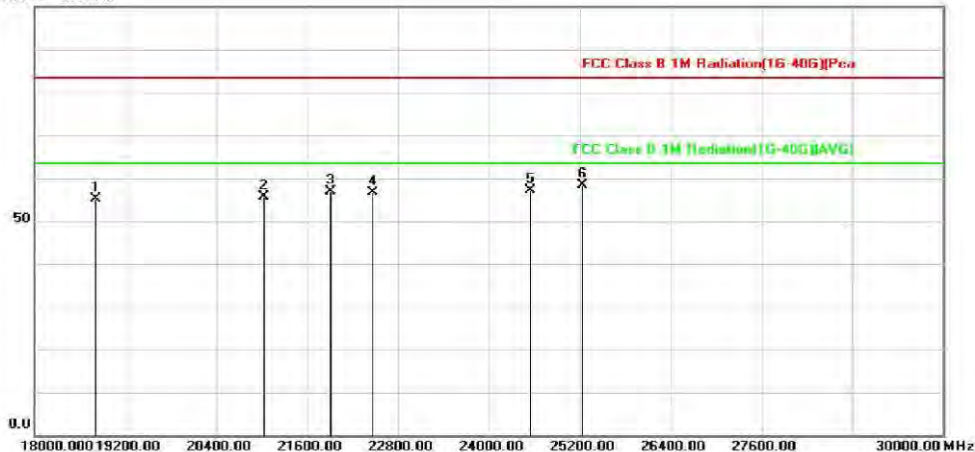
File :90204

Data :#22

Date: 2018/10/1

Time: 下午 06:21:38

100.0 dBuV/m



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | | |
|-----|-----|-----------|---------|---------|----------|--------|--------|----------|---------|
| | | MHz | Level | Factor | ment | | | Detector | Comment |
| | | | dBuV | | dBuV/m | dBuV/m | dB | | |
| 1 | | 18804.000 | 53.85 | 1.26 | 55.11 | 83.50 | -28.39 | peak | |
| 2 | | 21024.000 | 52.28 | 3.25 | 55.53 | 83.50 | -27.97 | peak | |
| 3 | | 21912.000 | 52.17 | 4.83 | 57.00 | 83.50 | -26.50 | peak | |
| 4 | | 22464.000 | 51.26 | 5.38 | 56.64 | 83.50 | -26.86 | peak | |
| 5 | | 24552.000 | 50.96 | 6.21 | 57.17 | 83.50 | -26.33 | peak | |
| 6 * | | 25236.000 | 52.54 | 5.78 | 58.32 | 83.50 | -25.18 | peak | |

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

File :90204\Data :#22

Page: 1

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Config_2_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 2

Distance:

Note:

Radiated Emission

File :90204

Data :#21

Date: 2018/10/1

Time: 下午 06:19:23

100.0 dBuV/m



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | | |
|-----|-----|-----------|---------|---------|----------|--------|--------|----------|---------|
| | | MHz | Level | Factor | ment | | | Defector | Comment |
| | | | dBuV | | dBuV/m | dBuV/m | dB | | |
| 1 | | 19368.000 | 52.65 | 1.59 | 54.24 | 83.50 | -29.26 | peak | |
| 2 | | 20796.000 | 52.36 | 2.99 | 55.35 | 83.50 | -28.15 | peak | |
| 3 | | 22068.000 | 50.53 | 5.05 | 55.58 | 83.50 | -27.92 | peak | |
| 4 | | 22548.000 | 51.35 | 5.41 | 56.76 | 83.50 | -26.74 | peak | |
| 5 * | | 24768.000 | 50.98 | 6.25 | 57.23 | 83.50 | -26.27 | peak | |
| 6 | | 25260.000 | 51.34 | 5.73 | 57.07 | 83.50 | -26.43 | peak | |

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

File :90204\Data :#21

Page: 1

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Config_3_H

Site: SGS 966 Chamber A

Polarization: **Horizontal**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 3

Distance:

Note:

Radiated Emission

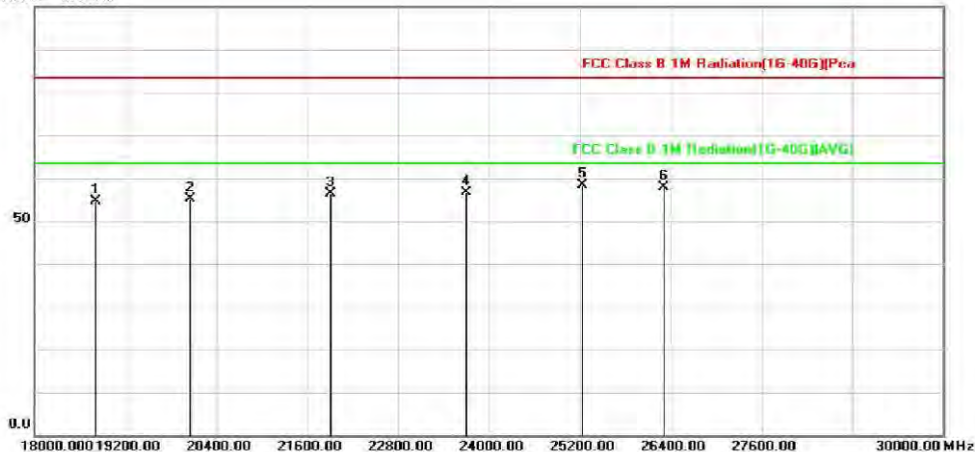
File :90204

Data :#24

Date: 2018/10/1

Time: 下午 06:48:42

100.0 dBuV/m



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | | |
|-----|-----|-----------|---------|---------|----------|--------|--------|----------|---------|
| | | MHz | Level | Factor | ment | | | Detector | Comment |
| | | | dBuV | | dBuV/m | dBuV/m | dB | | |
| 1 | | 18804.000 | 53.35 | 1.26 | 54.61 | 83.50 | -28.89 | peak | |
| 2 | | 20052.000 | 52.35 | 2.70 | 55.05 | 83.50 | -28.45 | peak | |
| 3 | | 21912.000 | 51.67 | 4.83 | 56.50 | 83.50 | -27.00 | peak | |
| 4 | | 23700.000 | 50.74 | 5.90 | 56.64 | 83.50 | -26.86 | peak | |
| 5 | * | 25236.000 | 52.54 | 5.78 | 58.32 | 83.50 | -25.18 | peak | |
| 6 | | 26304.000 | 51.98 | 5.96 | 57.94 | 83.50 | -25.56 | peak | |

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

File :90204\Data :#24

Page: 1

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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SGS Taiwan Ltd.

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Config_3_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 24 °C

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

Power: AC 120V/60Hz

Humidity: 60 %

Mode: Config 3

Distance:

Note:

Radiated Emission

File :90204

Data :#23

Date: 2018/10/1

Time: 下午 06:30:15

100.0 dBuV/m



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | | |
|-----|-----|-----------|---------|---------|----------|--------|--------|----------|---------|
| | | MHz | Level | Factor | ment | | | Defector | Comment |
| | | | dBuV | dB/m | dBuV/m | dBuV/m | dB | | |
| 1 | | 18792.000 | 52.60 | 1.26 | 53.86 | 83.50 | -29.64 | peak | |
| 2 | | 19740.000 | 51.59 | 2.18 | 53.77 | 83.50 | -29.73 | peak | |
| 3 | | 20796.000 | 52.86 | 2.99 | 55.85 | 83.50 | -27.65 | peak | |
| 4 | * | 22548.000 | 52.35 | 5.41 | 57.76 | 83.50 | -25.74 | peak | |
| 5 | | 24072.000 | 51.52 | 5.95 | 57.47 | 83.50 | -26.03 | peak | |
| 6 | | 24552.000 | 50.72 | 6.21 | 56.93 | 83.50 | -26.57 | peak | |

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

File :90204\Data :#23

Page: 1

** End of Report **

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