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TEST REPORT

| Application No.: | SZEM1612010748RG(SZEM1612010868CR) | | | |
|---------------------------|---|--|--|--|
| Applicant: | LG Electronics Mobile Comm USA | | | |
| Address of Applicant: | 1000 Sylvan Avenue Englewood Cliffs, NJ 07632 | | | |
| Manufacturer: | Huaqin Telecom Technology Co. Ltd. | | | |
| Address of Manufacturer: | No.1 Building,399 Keyuan Road, Zhangjiang Hi-Tech Park, Pudong New Area, Shanghai, China | | | |
| Factory: | Dong Guan Huabel Electronic Technology Co., Ltd | | | |
| Address of Factory: | No.9 Industrial Northern Road, National High-Tech Industrial Development Zone, SongShan Lake, Dong Guan | | | |
| Equipment Under Test (EUT |): | | | |
| EUT Name: | Mobile Handset | | | |
| Model No.: | LG-X230Z, LG-X230YK 🌲 | | | |
| * | Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical. | | | |
| Trade mark: | LG | | | |
| FCC ID: | ZNFX230Z | | | |
| Standards: | 47 CFR PART 15,Subpart B:2015 | | | |
| Date of Receipt: | 2016-12-20 | | | |
| Date of Test: | 2016-12-20 to 2016-12-22 | | | |
| Date of Issue: | 2016-12-29 | | | |
| Test Result : | Pass* | | | |

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



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. 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. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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| | Revision Record | | | | |
|---------|-----------------|------------|-----------|----------------------|--|
| Version | Chapter | Date | Modifier | Remark | |
| 01 | | 2016-12-29 | | Original | |
| 02 | | 2017-03-14 | Mandy Lai | Revise the model No. | |
| | | | | | |

| Authorized for issue by: | | | | |
|--------------------------|------------------------------|------------|--|--|
| Tested By | Gray Gao | 2016-12-22 | | |
| | (Gray Gao) /Project Engineer | - Date | | |
| Checked By | Eric Fu | 2016-12-29 | | |
| | PM /Reviewer | Date | | |

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2 Test Summary

Emission Part

| Emission Part | | | | |
|--|----------------------------------|-----------------|-------------|--------|
| Item Standard | | Method | Requirement | Result |
| Conducted Disturbance at Mains Terminals (150kHz-30MHz) | 47 CFR PART 15,Subpart B:2015 | ANSI C63.4:2014 | Class B | Pass |
| Radiated Disturbance (30MHz-1GHz) | 47 CFR PART 15,Subpart B:2015 | ANSI C63.4:2014 | Class B | Pass |
| Radiated Disturbance (above 1GHz) | 47 CFR PART 15,Subpart B:2015 | ANSI C63.4:2014 | Class B | Pass |

| InternalSource | UpperFrequency |
|--------------------|--|
| Below 1.705MHz | 30MHz |
| 1.705MHz to 108MHz | 1GHz |
| 108MHz to 500MHz | 2GHz |
| 500MHz to 1GHz | 5GHz |
| Above 1GHz | 5th harmonic of the highest frequency or 40GHz, whichever is lower |

Remark:

Model No.: LG-X230Z, LG-X230YK

Only the model LG-X230Z was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, only different on sale area.



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| | 6.2 RADIATED DISTURBANCE(30MHz-1GHz) | |

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4 General Information

4.1 Details of E.U.T.

| Power Supply: | Adaptor: Model:MCS-02WR2 |
|------------------|---|
| | Input: AC100-240V 50/60Hz 0.2A |
| | Output:DC5.0V 0.85A |
| | 3.85V DC (1 x 3.85V Rechargeable battery) 2500mAh |
| | Battery: Charge by DC 5V |
| Cable: | USB cable:100cm shielded |
| | earphone cable: 110cm unshielded. |
| Internal Source: | 1100MHz |

4.2 Description of Support Units

The EUT has been tested as an independent unit.

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4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|----------------------------------|-------------------------|
| - | Conduction emission | 3.45dB (9kHz to 150kHz) |
| 1 | Conduction emission | 3.0dB (150kHz to 30MHz) |
| 2 | Radiated Power | 3.64dB |
| | | 4.5dB (30MHz-1GHz) |
| 3 | Radiated emission | 4.8dB (1GHz-6GHz) |
| 4 | Radiated Immunity | 1.64dB |
| 5 | Conducted Immunity | 0.96dB |
| 6 | ESD | 6 % |
| 7 | EFT (Electrical Fast Transients) | 5 % |
| 8 | Surge Immunity | 5 % |
| 9 | Voltage Dips and Interruptions | 4 % |
| 10 | 20 system | 1.5dB |
| 11 | Temperature test | 1℃ |
| 12 | Humidity test | 3% |
| 13 | DC power test | 0.5 % |

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4.4 Standards Applicable for Testing

Table 1 : Tests Carried Out Under 47 CFR PART 15, Subpart B:2015

| Item | Status |
|--|--------------|
| Conducted Disturbance at Mains Terminals(150kHz-30MHz) | \checkmark |
| Radiated Disturbance(30MHz-1GHz) | \checkmark |
| Radiated Disturbance(above 1GHz) | \checkmark |

× Indicates that the test is not applicable

 $\sqrt{}$ Indicates that the test is applicable

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4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594 No tests were sub-contracted.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

| Conducted Emission | | | | | |
|--------------------|--------------------------------------|---------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Shielding Room | ZhongYu Electron | GB-88 | SEM001-06 | 2016-05-13 | 2017-05-13 |
| LISN | Rohde & Schwarz | ENV216 | SEM007-01 | 2016-10-09 | 2017-10-09 |
| LISN | ETS-LINDGREN | 3816/2 | SEM007-02 | 2016-04-25 | 2017-04-25 |
| 8 Line ISN | Fischer Custom Communications Inc | FCC-TLISN- T8-02 | EMC0120 | 2016-09-28 | 2017-09-28 |
| 4 Line ISN | Fischer Custom Communications Inc | FCC-TLISN- T4-02 | EMC0121 | 2016-09-28 | 2017-09-28 |
| 2 Line ISN | Fischer Custom Communications Inc | FCC-TLISN- T2-02 | EMC0122 | 2016-09-28 | 2017-09-28 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-02 | 2016-04-25 | 2017-04-25 |

| Radiated Disturbance(30MHz-1GHz) | | | | | | |
|---------------------------------------|-------------------------|----------|--------------|------------|--------------|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | |
| 10m Semi-Anechoic Chamber | SAEMC | FSAC1018 | SEM001-03 | 2016-05-13 | 2017-05-13 | |
| EMI Test Receiver (9k-3GHz) | Rohde & Schwarz | ESCI | SEM004-01 | 2016-04-25 | 2017-04-25 | |
| Trilog-Broadband Antenna(30M-1GHz) | Schwarzbeck | VULB9168 | SEM003-18 | 2016-06-29 | 2019-06-29 | |
| Pre-amplifier | Sonoma Instrument Co | 310N | SEM005-03 | 2016-07-06 | 2017-07-06 | |
| Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2015-08-14 | 2018-08-14 | |

| Radiated Disturbance(above 1GHz) | | | | | | | | |
|----------------------------------|-----------------------------|-----------------------|--------------|------------|--------------|--|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | | |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2016-05-13 | 2017-05-13 | | | |
| EXA Spectrum Analyzer | AgilentTechnologie s Inc | N9010A | SEM004-09 | 2016-07-19 | 2017-07-19 | | | |
| Horn Antenna(1-18GHz) | Rohde & Schwarz | HF907 | SEM003-06 | 2015-06-14 | 2018-06-14 | | | |
| Low Noise Amplifier | Black Diamond Series | BDLNA- 0118-352810 | SEM005-05 | 2016-10-09 | 2017-10-09 | | | |

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| General used equipment | | | | | | | | |
|------------------------------------|---|----------|--------------|------------|--------------|--|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | | |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2016-10-12 | 2017-10-12 | | | |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2016-10-12 | 2017-10-12 | | | |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2016-10-12 | 2017-10-12 | | | |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2016-05-18 | 2017-05-18 | | | |

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6 Emission Test Results

6.1 Conducted Disturbance at Mains Terminals(150kHz-30MHz)

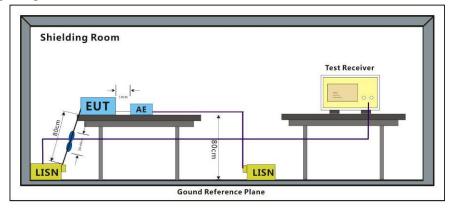
| Test Requirement: | 47 CFR PART 15,Subpart B:2015 |
|-------------------|---|
| Test Method: | ANSI C63.4:2014 |
| Frequency Range: | 150kHz to 30MHz |
| Limit: | |
| 0.15M-0.5MHz | 66dB(μ V)-56dB(μ V) quasi-peak, 56dB(μ V)-46dB(μ V) average |
| 0.5M-5MHz | 56dB(μ V) quasi-peak, 46dB(μ V) average |
| 5M-30MHz | 60dB(μV) quasi-peak, 50dB(μV) average |
| Detector: | Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz |

6.1.1 E.U.T. Operation

Operating Environment:

| Temperature: | 25.0 °C | Humidity: | 53 % RH | Atmospheric Pressure: | 1015 | mbar | | | | |
|---------------------------------|---|---|--|-----------------------|------|------|--|--|--|--|
| | a: GSM(Idle)+ | a: GSM(Idle)+BT+ WLAN + GPS Rx + playing MP4 + earphone + battery + adapter | | | | | | | | |
| Pretest these | b: WCDMA(Idle)+BT + WLAN+ GPS Rx + camera(Front) + earphone + battery + adapter | | | | | | | | | |
| mode to find the worst case: | c: LTE(Idle)+B | T + WLAN+ | VLAN+ GPS Rx + camera(rear) + earphone + battery + adapter | | | | | | | |
| Worldt Gabo. | d: Transfer data between the EUT and the PC | | | | | | | | | |
| | e: FM mode | | | | | | | | | |
| The worst case for final test: | b: WCDMA(Idle)+BT + WLAN+ GPS Rx + camera(Front) + earphone + battery + adapter | | | | | | | | | |
| | d: Transfer dat | a between th | ne EUT and the P | С | | | | | | |

6.1.2 Test Setup Diagram



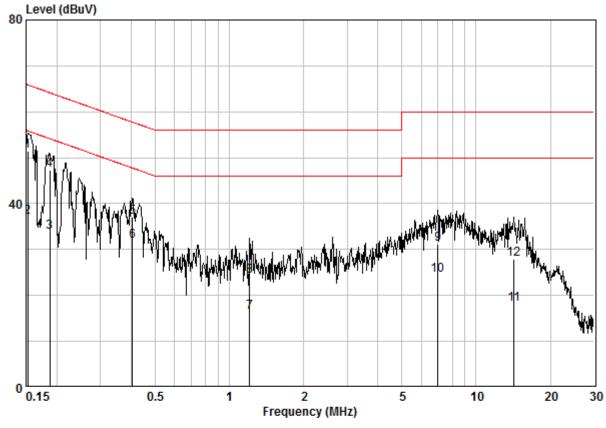
6.1.3 Measurement Data

An initial pre-scan was performed with peak detector.Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

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Mode:b;Line:Live Line

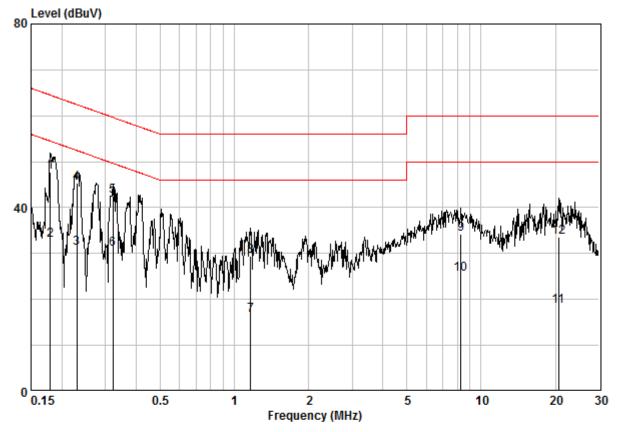
| Site | : Shielding Room |
|-----------|------------------|
| Condition | : CE LINE |
| Job No. | : 10748RG |
| Test Mode | :b |

| | | Cable | LISN | Read | | Limit | Over | |
|----|---------|-------|--------|-------|-------|-------|--------|---------|
| | Freq | Loss | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.15240 | 0.02 | 9.59 | 41.79 | 51.40 | 65.87 | -14.47 | QP |
| 2 | 0.15240 | 0.02 | 9.59 | 27.53 | 37.14 | 55.87 | -18.73 | AVERAGE |
| 3 | 0.18738 | 0.02 | 9.60 | 24.21 | 33.83 | 54.15 | -20.33 | AVERAGE |
| 4 | 0.18738 | 0.02 | 9.60 | 37.74 | 47.36 | 64.15 | -16.80 | QP |
| 5 | 0.40400 | 0.02 | 9.60 | 27.50 | 37.12 | 57.77 | -20.65 | QP |
| 6 | 0.40400 | 0.02 | 9.60 | 22.28 | 31.90 | 47.77 | -15.87 | AVERAGE |
| 7 | 1.210 | 0.03 | 9.61 | 6.65 | 16.28 | 46.00 | -29.72 | AVERAGE |
| 8 | 1.210 | 0.03 | 9.61 | 14.65 | 24.29 | 56.00 | -31.71 | QP |
| 9 | 6.988 | 0.08 | 9.68 | 21.36 | 31.11 | 60.00 | -28.89 | QP |
| 10 | 6.988 | 0.08 | 9.68 | 14.70 | 24.46 | 50.00 | -25.54 | AVERAGE |
| 11 | 14.213 | 0.16 | 9.75 | 8.21 | 18.12 | 50.00 | -31.88 | AVERAGE |
| 12 | 14.213 | 0.16 | 9.75 | 17.91 | 27.82 | 60.00 | -32.18 | QP |

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Mode:b;Line:Neutral Line

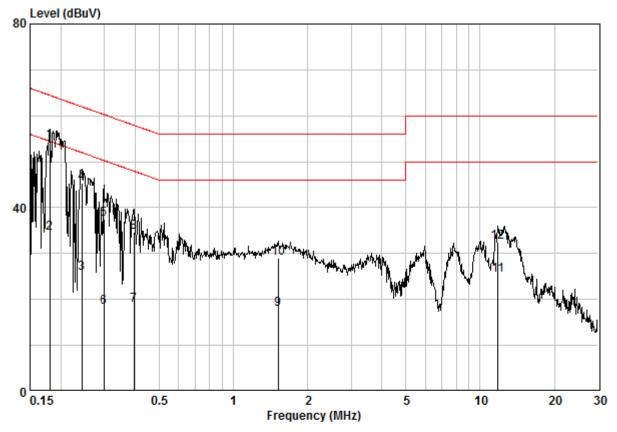
| Site | : Shielding Room |
|-----------|------------------|
| Condition | : CE NEUTRAL |
| Job No. | : 10748RG |
| Test Mode | :b |

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|---------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.17961 | 0.02 | 9.61 | 38.14 | 47.76 | 64.50 | -16.74 | QP |
| 2 | 0.17961 | 0.02 | 9.61 | 23.31 | 32.94 | 54.50 | -21.57 | AVERAGE |
| 3 | 0.23040 | 0.02 | 9.61 | 21.55 | 31.18 | 52.44 | -21.25 | AVERAGE |
| 4 | 0.23040 | 0.02 | 9.61 | 35.60 | 45.23 | 62.44 | -17.20 | QP |
| 5 | 0.32169 | 0.02 | 9.62 | 32.88 | 42.52 | 59.66 | -17.14 | QP |
| 6 | 0.32169 | 0.02 | 9.62 | 21.38 | 31.02 | 49.66 | -18.65 | AVERAGE |
| 7 | 1.166 | 0.03 | 9.65 | 6.90 | 16.58 | 46.00 | -29.42 | AVERAGE |
| 8 | 1.166 | 0.03 | 9.65 | 19.73 | 29.41 | 56.00 | -26.59 | QP |
| 9 | 8.279 | 0.11 | 9.76 | 24.43 | 34.29 | 60.00 | -25.71 | QP |
| 10 | 8.279 | 0.11 | 9.76 | 15.58 | 25.45 | 50.00 | -24.55 | AVERAGE |
| 11 | 20.594 | 0.17 | 10.01 | 8.25 | 18.43 | 50.00 | -31.57 | AVERAGE |
| 12 | 20.594 | 0.17 | 10.01 | 23.44 | 33.61 | 60.00 | -26.39 | QP |

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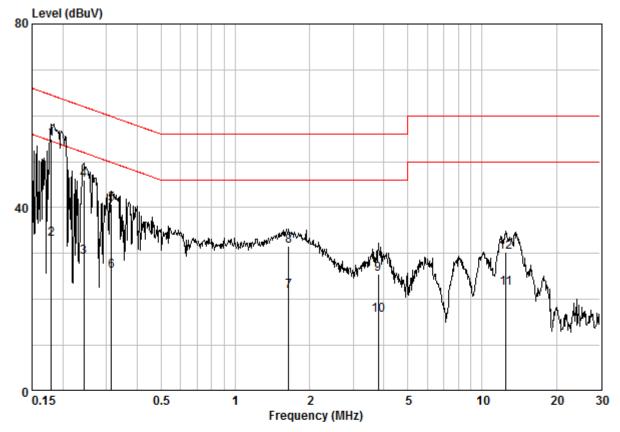
Mode:d;Line:Live Line

| Site | : Shielding Room |
|-----------|------------------|
| Condition | : CE LINE |
| Job No. | : 10748RG |
| Test Mode | : đ |

| | | Cable | LISN | Read | | Limit | Over | |
|----|---------|-------|--------|-------|-------|-------|--------|---------|
| | Freq | Loss | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 10 | 0.18056 | 0.02 | 9.60 | 44.90 | 54.52 | 64.46 | -9.94 | QP |
| 2 | 0.18056 | 0.02 | 9.60 | 24.87 | 34.49 | 54.46 | -19.97 | AVERAGE |
| 3 | 0.24293 | 0.02 | 9.60 | 16.04 | 25.66 | 52.00 | -26.34 | AVERAGE |
| 4 | 0.24293 | 0.02 | 9.60 | 35.61 | 45.23 | 62.00 | -16.76 | QP |
| 5 | 0.29869 | 0.02 | 9.59 | 27.92 | 37.53 | 60.28 | -22.75 | QP |
| 6 | 0.29869 | 0.02 | 9.59 | 8.66 | 18.27 | 50.28 | -32.01 | AVERAGE |
| 7 | 0.39553 | 0.02 | 9.60 | 9.09 | 18.71 | 47.95 | -29.24 | AVERAGE |
| 8 | 0.39553 | 0.02 | 9.60 | 25.07 | 34.69 | 57.95 | -23.26 | QP |
| 9 | 1.519 | 0.03 | 9.58 | 8.19 | 17.80 | 46.00 | -28.20 | AVERAGE |
| 10 | 1.519 | 0.03 | 9.58 | 19.31 | 28.92 | 56.00 | -27.08 | QP |
| 11 | 11.807 | 0.15 | 9.73 | 15.33 | 25.20 | 50.00 | -24.80 | AVERAGE |
| 12 | 11.807 | 0.15 | 9.73 | 22.53 | 32.41 | 60.00 | -27.59 | QP |



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Mode:d;Line:Neutral Line

| Site | : Shielding Room |
|-----------|------------------|
| Condition | : CE NEUTRAL |
| Job No. | : 10748RG |
| Test Mode | : d |

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----|---------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 10 | 0.17961 | 0.02 | 9.61 | 45.33 | 54.95 | 64.50 | -9.55 | QP |
| 2 | 0.17961 | 0.02 | 9.61 | 23.48 | 33.11 | 54.50 | -21.40 | AVERAGE |
| 3 | 0.24293 | 0.02 | 9.61 | 19.62 | 29.25 | 52.00 | -22.74 | AVERAGE |
| 4 | 0.24293 | 0.02 | 9.61 | 36.47 | 46.10 | 62.00 | -15.89 | QP |
| 5 | 0.31495 | 0.02 | 9.62 | 31.07 | 40.71 | 59.84 | -19.13 | QP |
| 6 | 0.31495 | 0.02 | 9.62 | 16.41 | 26.05 | 49.84 | -23.79 | AVERAGE |
| 7 | 1.645 | 0.03 | 9.65 | 12.17 | 21.85 | 46.00 | -24.15 | AVERAGE |
| 8 | 1.645 | 0.03 | 9.65 | 22.00 | 31.67 | 56.00 | -24.33 | QP |
| 9 | 3.799 | 0.02 | 9.68 | 15.74 | 25.44 | 56.00 | -30.56 | QP |
| 10 | 3.799 | 0.02 | 9.68 | 6.81 | 16.51 | 46.00 | -29.49 | AVERAGE |
| 11 | 12.516 | 0.15 | 9.85 | 12.48 | 22.48 | 50.00 | -27.52 | AVERAGE |
| 12 | 12.516 | 0.15 | 9.85 | 20.26 | 30.26 | 60.00 | -29.74 | QP |

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6.2 Radiated Disturbance(30MHz-1GHz)

| Test Requirement: | 47 CFR PART 15,Subpart B:2015 |
|-------------------|-------------------------------|
| Test Method: | ANSI C63.4:2014 |
| Frequency Range: | 30MHz to 1GHz |

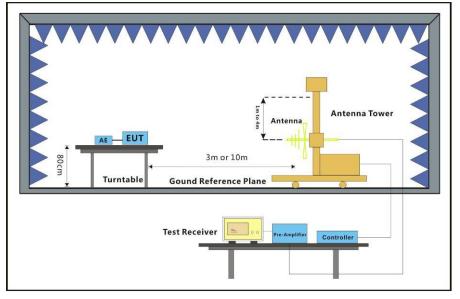
6.2.1 E.U.T. Operation

Operating Environment:

Temperature:

Humidity: 55 % RH Atmospheric Pressure: 25.0 °C 1015 mbar a: GSM(Idle)+BT+ WLAN + GPS Rx + playing MP4 + earphone + battery + adapter b: WCDMA(Idle)+BT + WLAN+ GPS Rx + camera(Front) + earphone + battery + Pretest these adapter mode to find the c: LTE(Idle)+BT + WLAN+ GPS Rx + camera(rear) + earphone + battery + adapter worst case: d: Transfer data between the EUT and the PC e: FM mode b: WCDMA(Idle)+BT + WLAN+ GPS Rx + camera(Front) + earphone + battery + The worst case adapter for final test: d: Transfer data between the EUT and the PC

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L10: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Mode b

| Frequency (MHz) | Level @ 10m (dBuV/m) | Level @ 10m (uV/m) | Level @ 3m (uV/m) | Level @ 3m (dBuV/m) | Limit @ 3m (dBuV/m) | Margin (dB) | Ant. Polarization |
|--------------------|----------------------------|-----------------------|----------------------|------------------------|------------------------|-------------|----------------------|
| 30.32 | 18.10 | 8.04 | 26.78 | 28.56 | 40.00 | -11.44 | V |
| 41.86 | 23.34 | 14.69 | 48.96 | 33.80 | 40.00 | -6.20 | V |
| 58.41 | 18.17 | 8.10 | 27.00 | 28.63 | 40.00 | -11.37 | V |
| 159.23 | 17.56 | 7.55 | 25.17 | 28.02 | 43.50 | -15.48 | V |
| 454.31 | 20.81 | 10.98 | 36.59 | 31.27 | 46.00 | -14.73 | V |
| 796.18 | 25.63 | 19.12 | 63.74 | 36.09 | 46.00 | -9.91 | V |
| 42.90 | 18.65 | 8.56 | 28.54 | 29.11 | 40.00 | -10.89 | Н |
| 55.61 | 13.96 | 4.99 | 16.63 | 24.42 | 40.00 | -15.58 | Н |
| 64.43 | 12.85 | 4.39 | 14.63 | 23.31 | 40.00 | -16.69 | Н |
| 147.92 | 16.52 | 6.70 | 22.33 | 26.98 | 43.50 | -16.52 | Н |
| 443.29 | 19.08 | 8.99 | 29.98 | 29.54 | 46.00 | -16.46 | Н |
| 857.02 | 25.50 | 18.84 | 62.79 | 35.96 | 46.00 | -10.04 | Н |

Mode d

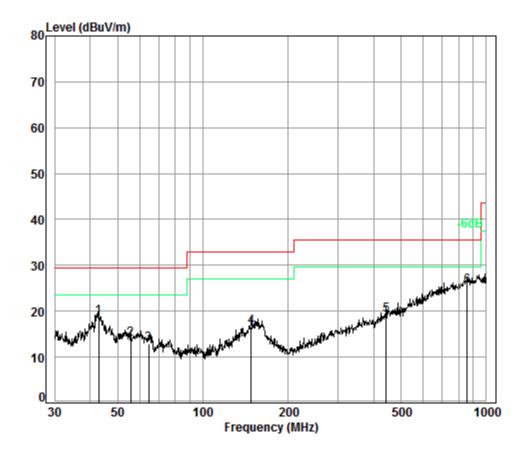
| Frequency (MHz) | Level @ 10m (dBuV/m) | Level @ 10m (uV/m) | Level @ 3m (uV/m) | Level @ 3m (dBuV/m) | Limit @ 3m (dBuV/m) | Margin (dB) | Ant. Polarization |
|--------------------|----------------------------|-----------------------|----------------------|------------------------|------------------------|-------------|----------------------|
| 46.99 | 23.15 | 14.37 | 47.90 | 33.61 | 40.00 | -6.39 | V |
| 51.12 | 25.91 | 19.75 | 65.82 | 36.37 | 40.00 | -3.63 | V |
| 187.10 | 20.11 | 10.13 | 33.76 | 30.57 | 43.50 | -12.93 | V |
| 228.49 | 19.99 | 9.99 | 33.29 | 30.45 | 46.00 | -15.55 | V |
| 301.42 | 20.84 | 11.02 | 36.72 | 31.30 | 46.00 | -14.70 | V |
| 399.03 | 25.77 | 19.43 | 64.77 | 36.23 | 46.00 | -9.77 | V |
| 51.12 | 19.14 | 9.06 | 30.19 | 29.60 | 40.00 | -10.40 | Н |
| 173.81 | 18.60 | 8.51 | 28.37 | 29.06 | 43.50 | -14.44 | Н |
| 230.10 | 23.83 | 15.54 | 51.81 | 34.29 | 46.00 | -11.71 | Н |
| 240.00 | 22.81 | 13.82 | 46.07 | 33.27 | 46.00 | -12.73 | Н |
| 258.33 | 23.75 | 15.40 | 51.33 | 34.21 | 46.00 | -11.79 | Н |
| 400.43 | 24.81 | 17.40 | 57.99 | 35.27 | 46.00 | -10.73 | Н |

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Mode:b;Polarization:Horizontal



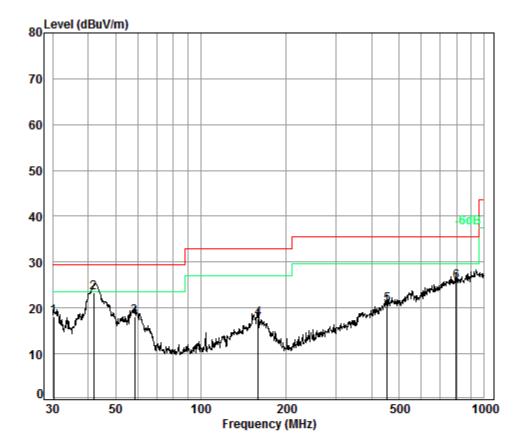
Condition: 10m HORIZONTAL Job No. : 10748RG Test Mode: b

| | Freq | | | Preamp Factor | | | | Over Limit |
|------|--------|------|-------|------------------|-------|--------|--------|---------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 42.90 | 6.80 | 13.07 | 32.99 | 31.77 | 18.65 | 29.50 | -10.85 |
| 2 | 55.61 | 7.00 | 12.33 | 32.97 | 27.60 | 13.96 | 29.50 | -15.54 |
| 3 | 64.43 | 7.00 | 11.11 | 32.93 | 27.67 | 12.85 | 29.50 | -16.65 |
| 4 | 147.92 | 7.44 | 13.28 | 32.74 | 28.54 | 16.52 | 33.00 | -16.48 |
| 5 | 443.29 | 8.41 | 16.01 | 32.60 | 27.26 | 19.08 | 35.60 | -16.52 |
| 6 pp | 857.02 | 9.39 | 21.68 | 32.54 | 26.97 | 25.50 | 35.60 | -10.10 |



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Mode:b;Polarization:Vertical



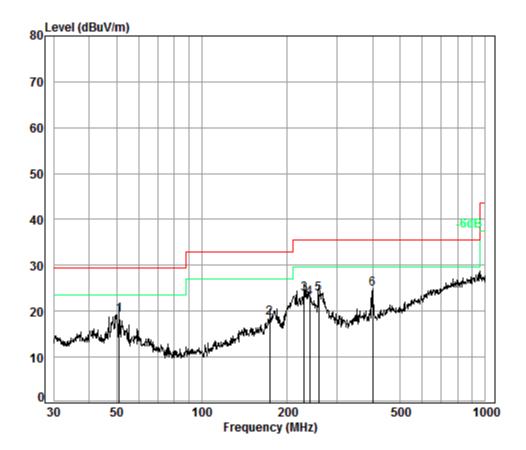
Condition: 10m VERTICAL Job No. : 10748RG Test Mode: b

| | Freq | | | Preamp Factor | | | | |
|---|---|------------------------------|----------------------------------|--|----------------------------------|----------------------------------|----------------------------------|-------------------------------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 5 | 30.32 41.86 58.41 159.23 454.31 796.18 | 6.80 7.00 7.50 8.44 | 13.16 12.12 13.39 16.23 | 32.97 32.99 32.96 32.73 32.60 32.60 | 36.37 32.01 29.40 28.74 | 23.34 18.17 17.56 20.81 | 29.50 29.50 33.00 35.60 | -6.16 -11.33 -15.44 -14.79 |



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Mode:d;Polarization:Horizontal



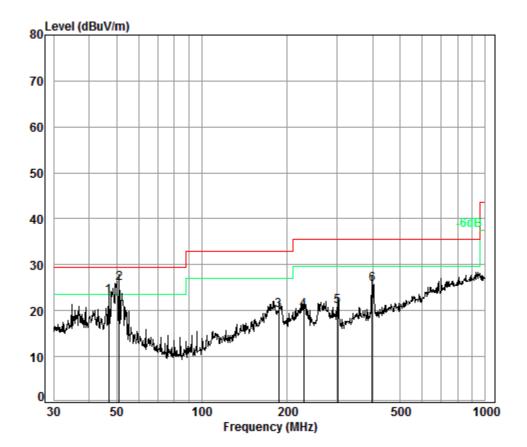
Condition: 10m HORIZONTAL Job No. : 10748RG Test Mode: d

| | | Cable | Ant | Preamp | Read | | Limit | 0ver |
|------|--------|-------|--------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| _ | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 pp | 51.12 | 6.92 | 12.69 | 32.99 | 32.52 | 19.14 | 29.50 | -10.36 |
| 2 | 173.81 | 7.50 | 11.84 | 32.72 | 31.98 | 18.60 | 33.00 | -14.40 |
| 3 | 230.10 | 7.75 | 10.78 | 32.67 | 37.97 | 23.83 | 35.60 | -11.77 |
| 4 | 240.00 | 7.80 | 11.07 | 32.66 | 36.60 | 22.81 | 35.60 | -12.79 |
| 5 | 258.33 | 7.90 | 11.44 | 32.64 | 37.05 | 23.75 | 35.60 | -11.85 |
| 6 | 400.43 | 8.30 | 14.87 | 32.60 | 34.24 | 24.81 | 35.60 | -10.79 |



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Mode:d;Polarization:Vertical



Condition: 10m VERTICAL Job No. : 10748RG Test Mode: d

| | | Cable | Ant | Preamp | Read | | Limit | 0ver |
|------|--------|-------|--------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| _ | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 46.99 | 6.84 | 12.85 | 33.00 | 36.46 | 23.15 | 29.50 | -6.35 |
| 2 pp | 51.12 | 6.92 | 12.69 | 32.99 | 39.29 | 25.91 | 29.50 | -3.59 |
| 3 | 187.10 | 7.54 | 10.11 | 32.71 | 35.17 | 20.11 | 33.00 | -12.89 |
| 4 | 228.49 | 7.74 | 10.69 | 32.67 | 34.23 | 19.99 | 35.60 | -15.61 |
| 5 | 301.42 | 8.06 | 12.70 | 32.60 | 32.68 | 20.84 | 35.60 | -14.76 |
| 6 | 399.03 | 8.30 | 14.84 | 32.60 | 35.23 | 25.77 | 35.60 | -9.83 |



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6.3 Radiated Disturbance(above 1GHz)

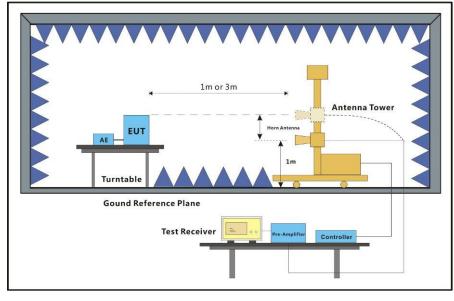
| Test Requirement: | 47 CFR PART 15,Subpart B:2015 |
|-----------------------|---|
| Test Method: | ANSI C63.4:2014 |
| Frequency Range: | Above 1GHz |
| Measurement Distance: | 3m |
| Limit: | |
| Above 1GHz | 74(dBµV/m) peak, 54(dBµV/m) average |
| Detector: | Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz |

6.3.1 E.U.T. Operation

Operating Environment:

| Temperature: | 25.0 °C | Humidity: | 56 % RH | Atmospheric Pressure: | 1010 mbar | | | | |
|---------------------------------|---|--------------|-----------------|-----------------------------|---------------|--|--|--|--|
| | a: GSM(Idle)+I | BT+ WLAN + | + GPS Rx + play | ing MP4 + earphone + batter | y + adapter | | | | |
| Pretest these | b: WCDMA(Idle)+BT + WLAN+ GPS Rx + camera(Front) + earphone + battery + adapter | | | | | | | | |
| mode to find the worst case: | c: LTE(Idle)+BT + WLAN+ GPS Rx + camera(rear) + earphone + battery + adapter | | | | | | | | |
| wordt dabe. | d: Transfer data between the EUT and the PC | | | | | | | | |
| | e: FM mode | | | | | | | | |
| The worst case for final test: | b: WCDMA(Id adapter | le)+BT + W | LAN+ GPS Rx | + camera(Front) + earphon | e + battery + | | | | |
| | d: Transfer dat | a between th | ne EUT and the | PC | | | | | |

6.3.2 Test Setup Diagram





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6.3.3 Measurement Data

- 1. An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 2. The disturbance from 6GHz to 18GHz was very low, and the below is the highest frequency could

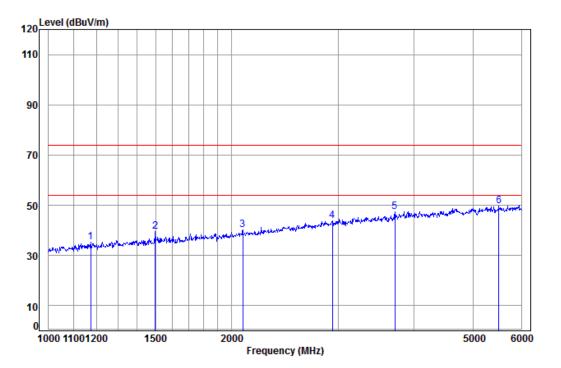
be found when testing, so only the below frequency had been displayed.

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Mode:b;Polarization:Horizontal



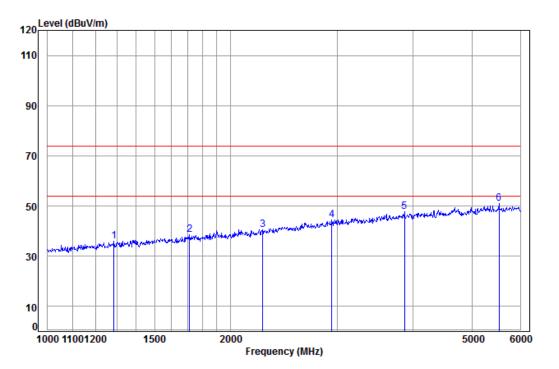
Condition: 3m HORIZONTAL Job No: : 10748RG Mode: : b

| Mode: | : D | | | | | | | | |
|-------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1172.885 | 4.04 | 24.34 | 38.08 | 45.08 | 35.38 | 74.00 | -38.62 | Peak |
| 2 | 1499.209 | 4.47 | 25.80 | 38.05 | 47.37 | 39.59 | 74.00 | -34.41 | Peak |
| 3 | 2088.431 | 5.09 | 28.11 | 37.99 | 44.90 | 40.11 | 74.00 | -33.89 | Peak |
| 4 | 2930.156 | 5.86 | 31.05 | 37.91 | 44.84 | 43.84 | 74.00 | -30.16 | Peak |
| 5 | 3718.646 | 6.48 | 32.84 | 37.97 | 46.02 | 47.37 | 74.00 | -26.63 | Peak |
| 6 pp | 5515.415 | 8.27 | 34.41 | 38.40 | 45.56 | 49.84 | 74.00 | -24.16 | Peak |
| | | | | | | | | | |



Report No.: SZEM161201074801 Page: 25 of 27

Mode:b;Polarization:Vertical



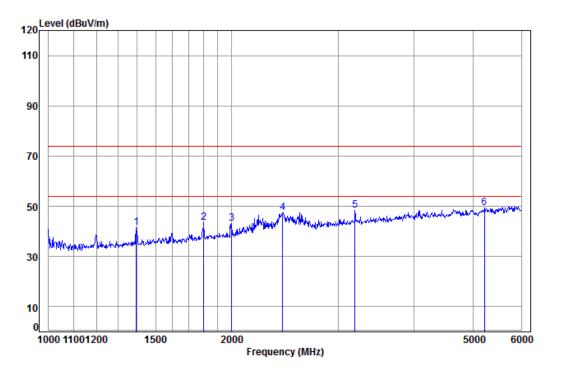
Condition: 3m VERTICAL Job No: : 10748RG Mode: : b

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|-----|------------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1285.113 | 4.20 | 24.88 | 38.07 | 44.92 | 35.93 | 74.00 | -38.07 | Peak |
| 2 | 1711.770 | 4.72 | 26.72 | 38.03 | 45.31 | 38.72 | 74.00 | -35.28 | Peak |
| 3 | 2259.742 | 5.23 | 28.68 | 37.97 | 44.64 | 40.58 | 74.00 | -33.42 | Peak |
| 4 | 2935.411 | 5.87 | 31.07 | 37.91 | 45.57 | 44.60 | 74.00 | -29.40 | Peak |
| 5 | 3868.158 | 6.60 | 33.25 | 37.99 | 45.75 | 47.61 | 74.00 | -26.39 | Peak |
| 6 p | p 5535.214 | 8.29 | 34.42 | 38.39 | 46.59 | 50.91 | 74.00 | -23.09 | Peak |
| | | | | | | | | | |



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Mode:d;Polarization:Horizontal



Condition: 3m HORIZONTAL Job No: : 10748RG

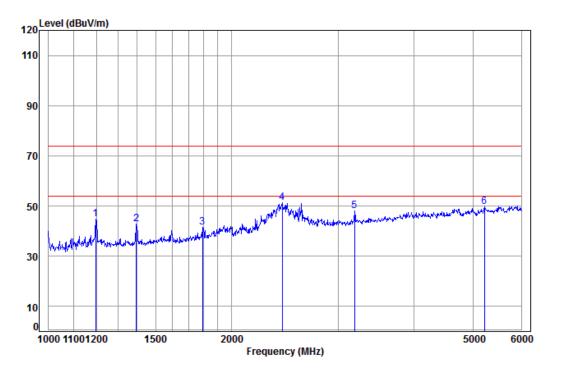
| - | - |
|-------|-------|
| Mode: | d |

| | Freq | Cable Loss | | Preamp Factor | | | | | Remark |
|------|----------|---------------|-------|------------------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1395.520 | 4.34 | 25.37 | 38.06 | 49.80 | 41.45 | 74.00 | -32.55 | Peak |
| 2 | 1799.839 | 4.81 | 27.07 | 38.02 | 49.60 | 43.46 | 74.00 | -30.54 | Peak |
| 3 | 2000.528 | 5.01 | 27.80 | 38.00 | 48.49 | 43.30 | 74.00 | -30.70 | Peak |
| 4 | 2427.643 | 5.37 | 29.19 | 37.96 | 50.94 | 47.54 | 74.00 | -26.46 | Peak |
| 5 | 3193.317 | 6.08 | 31.66 | 37.92 | 48.49 | 48.31 | 74.00 | -25.69 | Peak |
| 6 pp | 5217.416 | 8.11 | 34.46 | 38.46 | 45.28 | 49.39 | 74.00 | -24.61 | Peak |



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Mode:d;Polarization:Vertical



Condition: 3m VERTICAL Job No: : 10748RG Mode: : d

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1196.231 | 4.07 | 24.46 | 38.08 | 54.45 | 44.90 | 74.00 | -29.10 | Peak |
| 2 | 1395.520 | 4.34 | 25.37 | 38.06 | 51.17 | 42.82 | 74.00 | -31.18 | Peak |
| 3 | 1793.401 | 4.81 | 27.04 | 38.02 | 47.61 | 41.44 | 74.00 | -32.56 | Peak |
| 4 pp | 2423.297 | 5.36 | 29.18 | 37.96 | 54.63 | 51.21 | 74.00 | -22.79 | Peak |
| 5 | 3187.600 | 6.08 | 31.65 | 37.92 | 48.27 | 48.08 | 74.00 | -25.92 | Peak |
| 6 | 5217.416 | 8.11 | 34.46 | 38.46 | 45.73 | 49.84 | 74.00 | -24.16 | Peak |
| | | | | | | | | | |