

Report No.: SZEM190301131101
Page: 1 of 48

TEST REPORT

Application No.:

SZEM1903011311CR

Applicant:

TCL Communication Ltd.

Address of Applicant:

7/F, Block F4, TCL Communication Technology Building, TCL International E City, Zhong Shan Yuan Road, Nanshan District, Shenzhen, Guangdong, P.R. China 518052

Manufacturer:

TCL Communication Ltd.

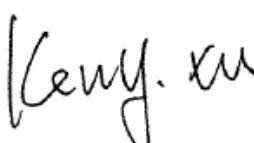
Address of Manufacturer:

7/F, Block F4, TCL Communication Technology Building, TCL International E City, Zhong Shan Yuan Road, Nanshan District, Shenzhen, Guangdong, P.R. China 518052

Equipment Under Test (EUT):**EUT Name:** LTE/WCDMA/GSM mobile phone**Model No.:** 5053A**Trade mark:** alcatel**Standard(s) :** 47 CFR Part 15, Subpart B**Date of Receipt:** 2019-03-04**Date of Test:** 2019-03-06 to 2019-03-08**Date of Issue:** 2019-03-12**Test Result:**

Pass*

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

Keny Xu
EMC Laboratory Manager

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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2019-03-12 | | Original |
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| | | | | |

| | | | |
|--------------------------|--|---|--|
| Authorized for issue by: | | | |
| | |  _____ Leo Lai /Project Engineer | |
| | |  _____ Eric Fu /Reviewer | |

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2 Test Summary

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

| Internal Source | Upper Frequency |
|--------------------|--|
| 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 |



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4 General Information

4.1 Details of E.U.T.

| | |
|---------------|---|
| Power supply: | DC 3.8V from internal battery or AC/DC adapter Model No.: UC13US, UC11US |
| Cable: | USB cable: 80cm shielded. Earphone cable: 120cm unshielded. |

| | | |
|-----------|--|---|
| Adaptor | Model1 | Model1: CBA0058AGAC5 5.0 V,1000 mA,PUAN |
| | Model2 | Model2: CBA0058AGAC7 5.0 V,1000 mA,CHENYANG |
| | Model3 | Model3: CBA0059AGAC7 5.0 V,1000 mA,CHENYANG |
| | Model4 | Model4: CBA0059AGAC5 5.0 V,1000 mA,PUAN |
| USB cable | Model1: CDA0000024C2 juwei | |
| | Model2: CDA0000024C8 puan | |
| | Model3: CDA3122005C8 puan | |
| | Model4: CDA3122005C1 juwei | |
| Headset | Model1: CCB0046A10C1 15, JUWEI | |
| | Model2: CCB0046A10C4 15, MEIHAO | |
| | Model3: CCB0049A12C1 15+, juwei | |
| | Model4: CCB0049A12C4 15+, MEIHAO | |
| Battery | Model1: CAC3400011C1 Min3400/Typ3500mAh, BYD | |
| | Model2: CAC3400009C7 Min3400/Typ3500mAh, VEKEN | |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------------|
| Laptop | Lenovo | T430u | REF. No.:SEA1800 |
| Mouse | Lenovo | M-U0025-O | REF. No.:SEA2400 |
| Router | NETGEAR | DGN2200 | REF. No.:SEA2200 |

4.3 Test modes

| | |
|---|--|
| Pretest these modes to find the worst case and show the worse data in the test items: | a: Transfer data between the EUT and the PC + cable1+battery1 b: Transfer data between the EUT and the PC + cable2+battery1 c: Transfer data between the EUT and the PC + cable3+battery1 d: Transfer data between the EUT and the PC + cable4+battery1 w: Transfer data between the EUT and the PC + cable(worse)+battery2 e: Telecom Idle + FM+ BT + WLAN + GPS Rx + playing MP4 (SD card) + earphone1 + battery1 + adapter1 f: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Front) + earphone2 + battery1 + adapter2 g: Telecom Idle + FM+ BT + WLAN + GPS Rx + camera (Back) + earphone3 + battery1 + adapter3 h: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Back) + earphone4 + battery1 + adapter4 y: Telecom Idle + FM+ BT + WLAN + GPS Rx + camera (Back) + earphone4 + battery2 + adapter4 i: GSM 850 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst) |
|---|--|

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| |
|---|
| j: GSM 1900 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst) |
| k: WCDMA Band II + FM+ BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst) |
| l: WCDMA Band IV + FM+ BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst) |
| m: WCDMA Band V + FM+ BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst) |
| n: LTE band 2 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst) |
| o: LTE band 4 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst) |
| p: LTE band 5 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst) |
| q: LTE band 12 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst) |
| r: LTE band 13 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst) |
| s: LTE band 17 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst) |
| t: LTE band 66 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst) |
| z: worse mode + battery2 |

4.4 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------|---------------------------|
| 1 | Conduction Emission | ± 3.0dB (150kHz to 30MHz) |
| 2 | Radiated Emission | ± 4.5dB (30MHz-1GHz) |
| | | ± 4.8dB (1GHz-6GHz) |
| 3 | Temperature test | ± 1°C |
| 4 | Humidity test | ± 3% |

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4.5 Test Location

All tests were performed at:

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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 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

| Conducted Emissions at Mains Terminals (150kHz-30MHz) | | | | | |
|---|-------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Shielding Room | ChangZhou ZhongYu | GB-88 | SEM001-06 | 2017-05-10 | 2020-05-09 |
| Measurement Software | AUDIX | e3 V5.4.1221d | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM024-01 | 2018-07-12 | 2019-07-11 |
| LISN | Rohde & Schwarz | ENV216 | SEM007-01 | 2018-09-25 | 2019-09-24 |
| LISN | ETS-LINDGREN | 3816/2 | SEM007-02 | 2018-04-02 | 2019-04-01 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-02 | 2018-04-02 | 2019-04-01 |

| Radiated Emissions (30MHz-1GHz) | | | | | |
|---------------------------------|----------------------|-----------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2017-08-05 | 2020-08-04 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2018-07-12 | 2019-07-11 |
| EMI Test Receiver | Agilent Technologies | N9038A | SEM004-05 | 2018-09-25 | 2019-09-24 |
| BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEM003-01 | 2017-06-27 | 2020-06-26 |
| Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEM005-01 | 2018-04-02 | 2019-04-01 |

| Radiated Emissions (above 1GHz) | | | | | |
|---------------------------------|------------------------------------|-----------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2018-03-13 | 2021-03-12 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2018-07-12 | 2019-07-11 |
| EXA Spectrum Analyzer | Agilent Technologies Inc | N9010A | SEM004-12 | 2018-04-13 | 2019-04-12 |
| Horn Antenna (1-18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2018-04-13 | 2021-04-12 |
| Pre-Amplifier (0.1-26.5GHz) | Compliance Directions Systems Inc. | PAP-0126 | SEM004-11 | 2018-11-12 | 2019-11-11 |



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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 | 2018-09-27 | 2019-09-26 |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2018-09-27 | 2019-09-26 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2018-09-27 | 2019-09-26 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2018-04-08 | 2019-04-07 |



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6 Emission Test Results

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

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



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6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 58 % RH Atmospheric Pressure: 1015 mbar

The worst case for final test: a: Transfer data between the EUT and the PC + cable1+ battery1

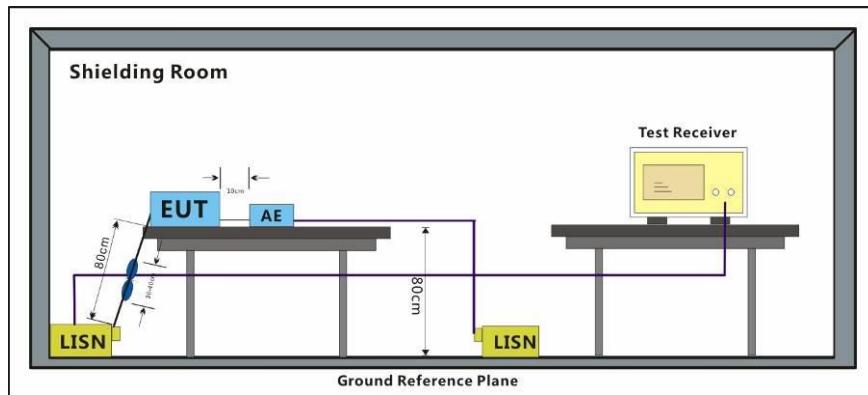
e: Telecom Idle + FM+ BT + WLAN + GPS Rx + playing MP4 (SD card) + earphone1 + battery1 + adapter1

f: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Front) + earphone2 + battery 1+ adapter2

g: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Back) + earphone3 + battery 1+ adapter3

h: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Back) + earphone4 + battery 1+ adapter4

6.1.2 Test Setup Diagram



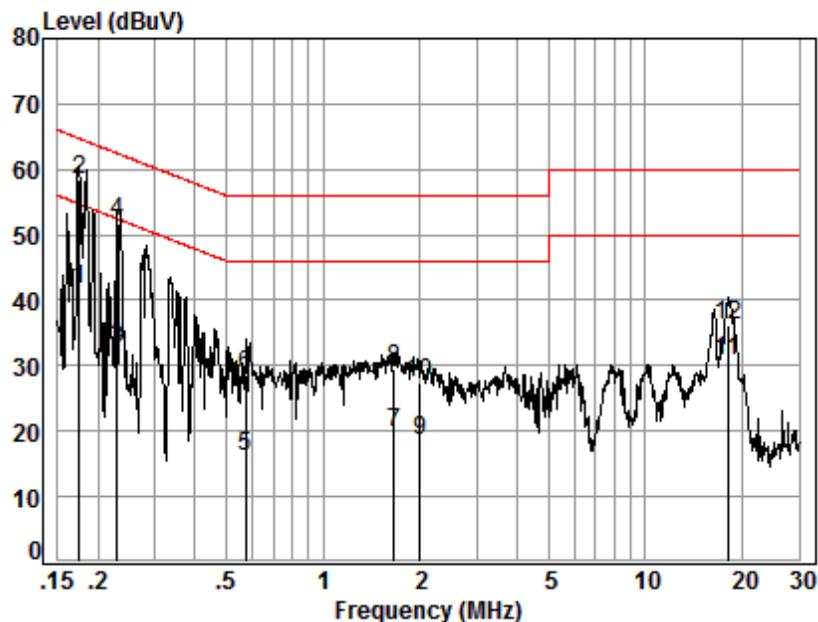
6.1.3 Measurement Data

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:a; Line:Live Line



Site : Shielding Room

Condition: Line

Job No. : 11311CR

Test mode: a

| Freq | Cable | LISN | Read | Limit | Over | Remark | | |
|------|-------|------|--------|-------|-------|--------|--------|---------|
| | MHz | Loss | Factor | Level | Level | Line | Limit | |
| 1 | 0.17 | 0.02 | 9.66 | 31.92 | 41.60 | 54.72 | -13.12 | Average |
| 2 | 0.17 | 0.02 | 9.66 | 48.76 | 58.44 | 64.72 | -6.28 | QP |
| 3 | 0.23 | 0.03 | 9.67 | 22.89 | 32.59 | 52.48 | -19.89 | Average |
| 4 | 0.23 | 0.03 | 9.67 | 42.40 | 52.10 | 62.48 | -10.38 | QP |
| 5 | 0.58 | 0.07 | 9.67 | 6.30 | 16.04 | 46.00 | -29.96 | Average |
| 6 | 0.58 | 0.07 | 9.67 | 18.94 | 28.68 | 56.00 | -27.32 | QP |
| 7 | 1.66 | 0.14 | 9.73 | 9.81 | 19.68 | 46.00 | -26.32 | Average |
| 8 | 1.66 | 0.14 | 9.73 | 19.55 | 29.42 | 56.00 | -26.58 | QP |
| 9 | 2.00 | 0.16 | 9.72 | 8.56 | 18.44 | 46.00 | -27.56 | Average |
| 10 | 2.00 | 0.16 | 9.72 | 17.47 | 27.35 | 56.00 | -28.65 | QP |
| 11 | 18.04 | 0.23 | 10.16 | 20.21 | 30.60 | 50.00 | -19.40 | Average |
| 12 | 18.04 | 0.23 | 10.16 | 25.68 | 36.07 | 60.00 | -23.93 | QP |

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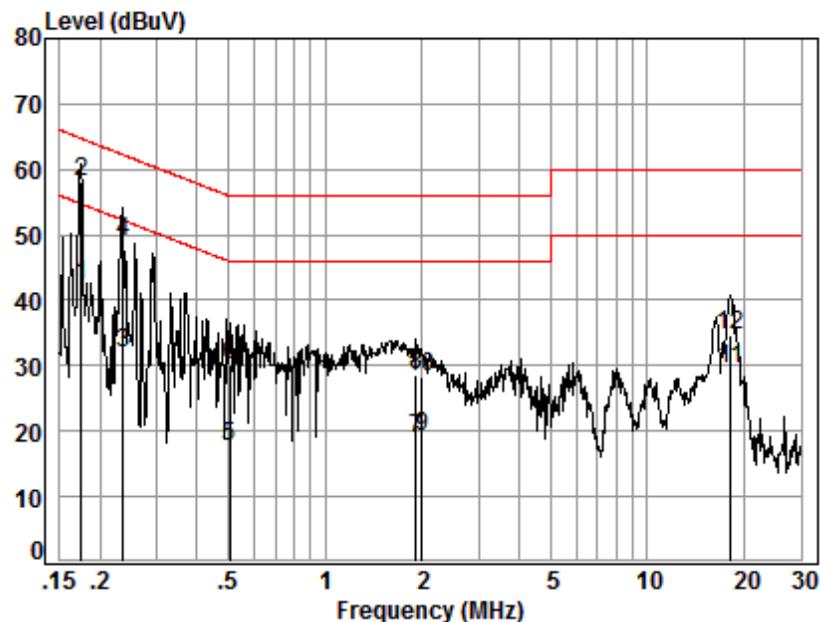


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Mode:a; Line:Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 11311CR

Test mode: a

| Freq | Cable | LISN | Read | Limit | Over | Remark |
|------|-------|------|--------|-------|-------|----------------------|
| | MHz | Loss | Factor | Level | Level | |
| 1 | 0.17 | 0.02 | 9.64 | 32.55 | 42.21 | 54.72 -12.51 Average |
| 2 | 0.17 | 0.02 | 9.64 | 48.45 | 58.11 | 64.72 -6.61 QP |
| 3 | 0.24 | 0.03 | 9.64 | 22.30 | 31.97 | 52.26 -20.29 Average |
| 4 | 0.24 | 0.03 | 9.64 | 39.21 | 48.88 | 62.26 -13.38 QP |
| 5 | 0.50 | 0.06 | 9.64 | 7.89 | 17.59 | 46.00 -28.41 Average |
| 6 | 0.50 | 0.06 | 9.64 | 20.28 | 29.98 | 56.00 -26.02 QP |
| 7 | 1.92 | 0.16 | 9.69 | 9.06 | 18.91 | 46.00 -27.09 Average |
| 8 | 1.92 | 0.16 | 9.69 | 18.61 | 28.46 | 56.00 -27.54 QP |
| 9 | 1.99 | 0.16 | 9.69 | 9.44 | 19.29 | 46.00 -26.71 Average |
| 10 | 1.99 | 0.16 | 9.69 | 18.47 | 28.32 | 56.00 -27.68 QP |
| 11 | 18.14 | 0.23 | 10.20 | 19.07 | 29.50 | 50.00 -20.50 Average |
| 12 | 18.14 | 0.23 | 10.20 | 24.37 | 34.80 | 60.00 -25.20 QP |

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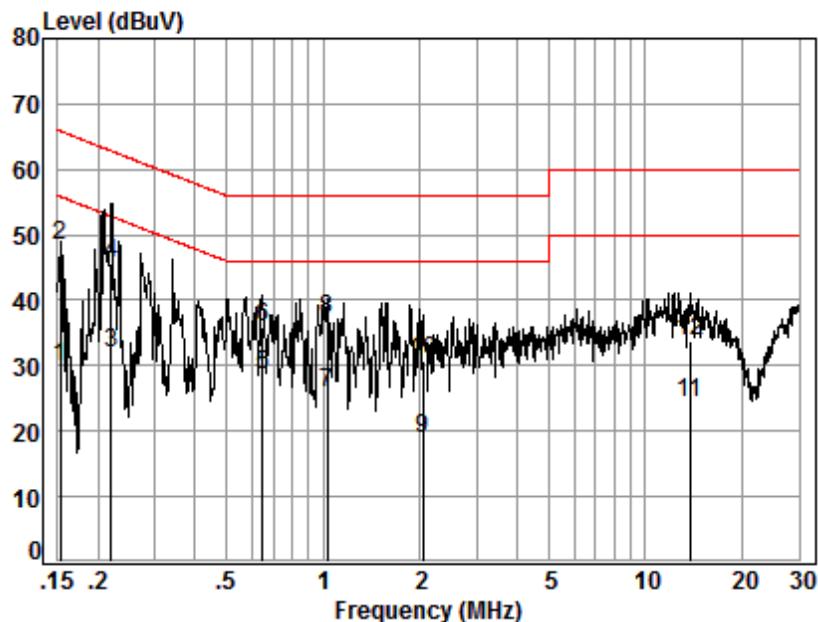
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Mode:e; Line:Live Line



Site : Shielding Room

Condition: Line

Job No. : 11311CR

Test mode: e

| Freq | Cable | LISN | Read | Limit | Over | Remark | | |
|------|-------|------|--------|-------|-------|--------|--------|---------|
| | MHz | Loss | Factor | Level | Level | Line | Limit | |
| 1 | 0.15 | 0.01 | 9.66 | 20.26 | 29.93 | 55.87 | -25.94 | Average |
| 2 | 0.15 | 0.01 | 9.66 | 38.72 | 48.39 | 65.87 | -17.48 | QP |
| 3 | 0.22 | 0.03 | 9.66 | 22.15 | 31.84 | 52.83 | -20.99 | Average |
| 4 | 0.22 | 0.03 | 9.66 | 35.91 | 45.60 | 62.83 | -17.23 | QP |
| 5 | 0.65 | 0.07 | 9.67 | 18.91 | 28.65 | 46.00 | -17.35 | Average |
| 6 | 0.65 | 0.07 | 9.67 | 26.21 | 35.95 | 56.00 | -20.05 | QP |
| 7 | 1.03 | 0.09 | 9.74 | 15.97 | 25.80 | 46.00 | -20.20 | Average |
| 8 | 1.03 | 0.09 | 9.74 | 27.14 | 36.97 | 56.00 | -19.03 | QP |
| 9 | 2.04 | 0.16 | 9.72 | 9.06 | 18.94 | 46.00 | -27.06 | Average |
| 10 | 2.04 | 0.16 | 9.72 | 20.81 | 30.69 | 56.00 | -25.31 | QP |
| 11 | 13.77 | 0.20 | 10.24 | 13.98 | 24.42 | 50.00 | -25.58 | Average |
| 12 | 13.77 | 0.20 | 10.24 | 23.25 | 33.69 | 60.00 | -26.31 | QP |

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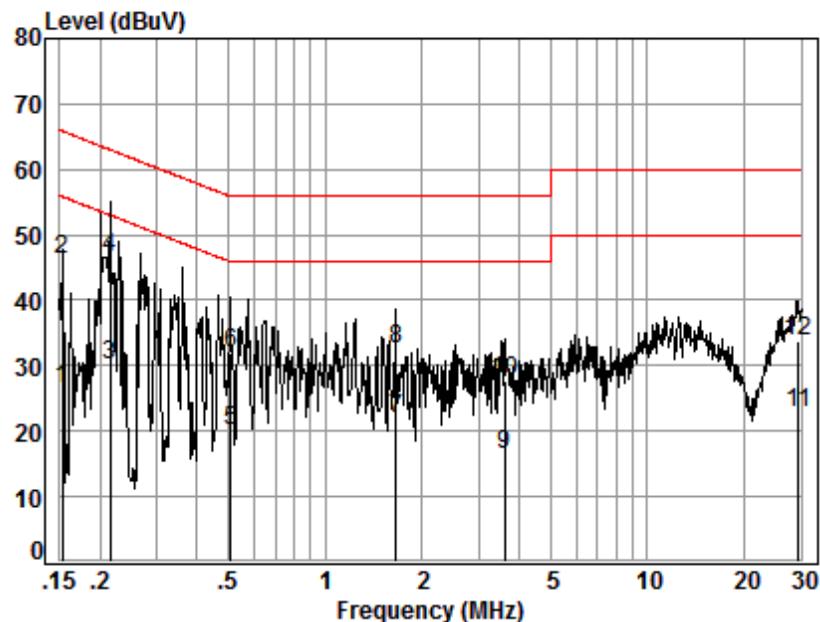
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Mode:e; Line:Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 11311CR

Test mode: e

| Freq | Cable | LISN | Read | Limit | Over | Remark | | |
|------|-------|------|--------|-------|-------|--------|--------|---------|
| | MHz | Loss | Factor | Level | Level | Line | Limit | |
| 1 | 0.15 | 0.01 | 9.63 | 16.92 | 26.56 | 55.82 | -29.26 | Average |
| 2 | 0.15 | 0.01 | 9.63 | 36.60 | 46.24 | 65.82 | -19.58 | QP |
| 3 | 0.22 | 0.03 | 9.64 | 20.44 | 30.11 | 53.01 | -22.90 | Average |
| 4 | 0.22 | 0.03 | 9.64 | 36.96 | 46.63 | 63.01 | -16.38 | QP |
| 5 | 0.51 | 0.06 | 9.64 | 10.39 | 20.09 | 46.00 | -25.91 | Average |
| 6 | 0.51 | 0.06 | 9.64 | 22.39 | 32.09 | 56.00 | -23.91 | QP |
| 7 | 1.65 | 0.14 | 9.70 | 12.14 | 21.98 | 46.00 | -24.02 | Average |
| 8 | 1.65 | 0.14 | 9.70 | 22.65 | 32.49 | 56.00 | -23.51 | QP |
| 9 | 3.60 | 0.16 | 9.69 | 6.58 | 16.43 | 46.00 | -29.57 | Average |
| 10 | 3.60 | 0.16 | 9.69 | 17.70 | 27.55 | 56.00 | -28.45 | QP |
| 11 | 29.53 | 0.28 | 10.44 | 12.02 | 22.74 | 50.00 | -27.26 | Average |
| 12 | 29.53 | 0.28 | 10.44 | 22.99 | 33.71 | 60.00 | -26.29 | QP |

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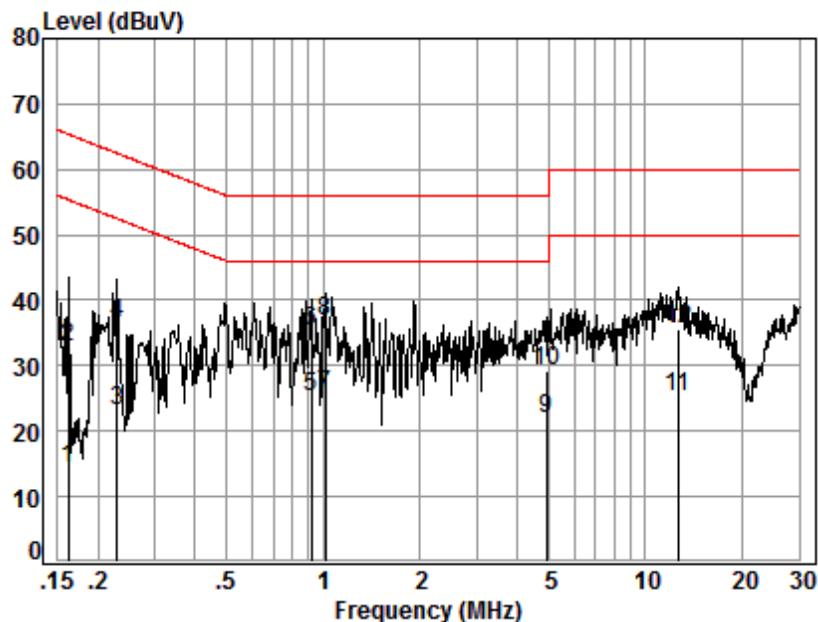
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Mode:f; Line:Live Line



Site : Shielding Room

Condition: Line

Job No. : 11311CR

Test mode: f

| Freq | Cable | LISN | Read | Limit | Over | Remark | | |
|------|-------|------|--------|-------|-------|--------|--------|---------|
| | MHz | Loss | Factor | Level | Level | Line | Limit | |
| 1 | 0.16 | 0.01 | 9.66 | 4.62 | 14.29 | 55.38 | -41.09 | Average |
| 2 | 0.16 | 0.01 | 9.66 | 23.29 | 32.96 | 65.38 | -32.42 | QP |
| 3 | 0.23 | 0.03 | 9.67 | 13.46 | 23.16 | 52.48 | -29.32 | Average |
| 4 | 0.23 | 0.03 | 9.67 | 26.95 | 36.65 | 62.48 | -25.83 | QP |
| 5 | 0.92 | 0.09 | 9.74 | 15.40 | 25.23 | 46.00 | -20.77 | Average |
| 6 | 0.92 | 0.09 | 9.74 | 25.46 | 35.29 | 56.00 | -20.71 | QP |
| 7 | 1.02 | 0.09 | 9.74 | 15.70 | 25.53 | 46.00 | -20.47 | Average |
| 8 | 1.02 | 0.09 | 9.74 | 26.95 | 36.78 | 56.00 | -19.22 | QP |
| 9 | 4.93 | 0.17 | 9.74 | 11.85 | 21.76 | 46.00 | -24.24 | Average |
| 10 | 4.93 | 0.17 | 9.74 | 19.30 | 29.21 | 56.00 | -26.79 | QP |
| 11 | 12.58 | 0.19 | 10.13 | 14.82 | 25.14 | 50.00 | -24.86 | Average |
| 12 | 12.58 | 0.19 | 10.13 | 25.26 | 35.58 | 60.00 | -24.42 | QP |

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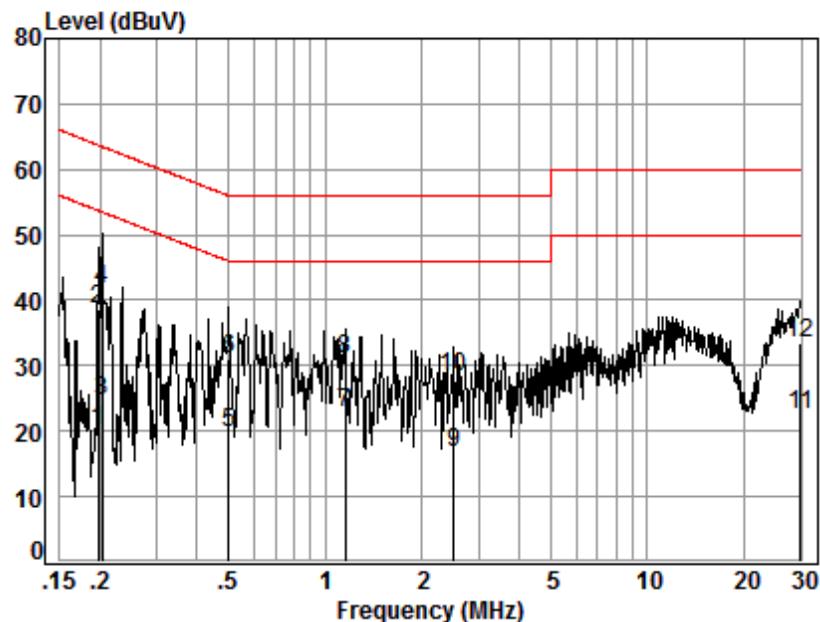


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Mode:f; Line:Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 11311CR

Test mode: f

| Freq | Cable | LISN | Read | Limit | Over | Remark |
|------|-------|------|--------|-------|-------|----------------------|
| | MHz | Loss | Factor | Level | Level | |
| 1 | 0.20 | 0.02 | 9.64 | 10.28 | 19.94 | 53.71 -33.77 Average |
| 2 | 0.20 | 0.02 | 9.64 | 28.83 | 38.49 | 63.71 -25.22 QP |
| 3 | 0.20 | 0.02 | 9.64 | 15.11 | 24.77 | 53.49 -28.72 Average |
| 4 | 0.20 | 0.02 | 9.64 | 32.10 | 41.76 | 63.49 -21.73 QP |
| 5 | 0.50 | 0.06 | 9.64 | 10.20 | 19.90 | 46.00 -26.10 Average |
| 6 | 0.50 | 0.06 | 9.64 | 21.44 | 31.14 | 56.00 -24.86 QP |
| 7 | 1.15 | 0.10 | 9.70 | 13.10 | 22.90 | 46.00 -23.10 Average |
| 8 | 1.15 | 0.10 | 9.70 | 21.16 | 30.96 | 56.00 -25.04 QP |
| 9 | 2.50 | 0.16 | 9.68 | 6.74 | 16.58 | 46.00 -29.42 Average |
| 10 | 2.50 | 0.16 | 9.68 | 18.58 | 28.42 | 56.00 -27.58 QP |
| 11 | 29.84 | 0.28 | 10.45 | 11.72 | 22.45 | 50.00 -27.55 Average |
| 12 | 29.84 | 0.28 | 10.45 | 22.70 | 33.43 | 60.00 -26.57 QP |

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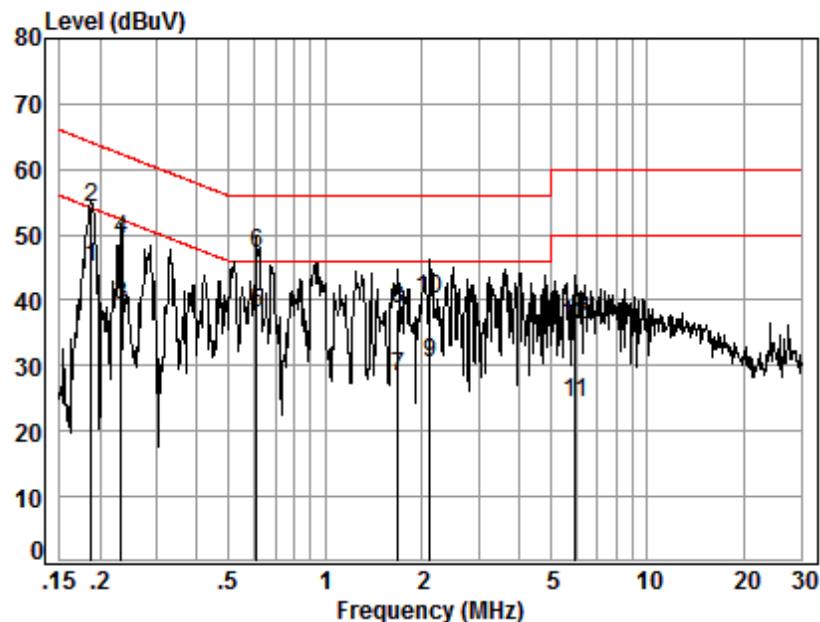
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Mode:g; Line:Live Line



Site : Shielding Room

Condition: Line

Job No. : 11311CR

Test mode: g

| Freq | Cable | LISN | Read | Limit | Over | Remark |
|------|-------|--------|-------|-------|-------|----------------------|
| | Loss | Factor | Level | Level | Line | |
| | MHz | dB | dB | dBuV | dBuV | dB |
| 1 | 0.19 | 0.02 | 9.66 | 35.23 | 44.91 | 54.11 -9.20 Average |
| 2 | 0.19 | 0.02 | 9.66 | 44.37 | 54.05 | 64.11 -10.06 QP |
| 3 | 0.23 | 0.03 | 9.67 | 29.68 | 39.38 | 52.35 -12.97 Average |
| 4 | 0.23 | 0.03 | 9.67 | 39.46 | 49.16 | 62.35 -13.19 QP |
| 5 | 0.61 | 0.07 | 9.67 | 28.43 | 38.17 | 46.00 -7.83 Average |
| 6 | 0.61 | 0.07 | 9.67 | 37.47 | 47.21 | 56.00 -8.79 QP |
| 7 | 1.68 | 0.14 | 9.73 | 18.44 | 28.31 | 46.00 -17.69 Average |
| 8 | 1.68 | 0.14 | 9.73 | 28.69 | 38.56 | 56.00 -17.44 QP |
| 9 | 2.11 | 0.16 | 9.72 | 20.45 | 30.33 | 46.00 -15.67 Average |
| 10 | 2.11 | 0.16 | 9.72 | 30.12 | 40.00 | 56.00 -16.00 QP |
| 11 | 5.99 | 0.17 | 9.76 | 14.54 | 24.47 | 50.00 -25.53 Average |
| 12 | 5.99 | 0.17 | 9.76 | 26.34 | 36.27 | 60.00 -23.73 QP |

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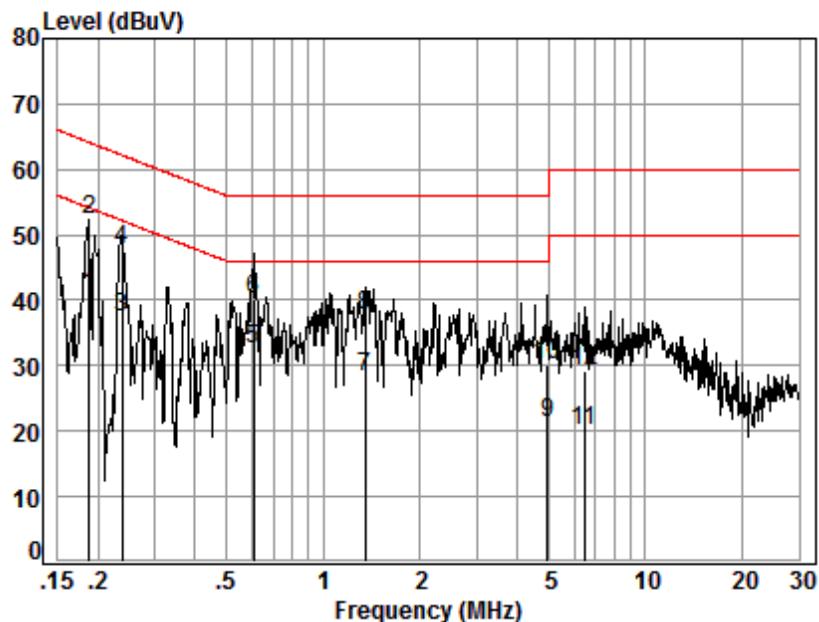
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Mode:g; Line:Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 11311CR

Test mode: g

| Freq | Cable | LISN | Read | Limit | Over | Remark | |
|------|-------|--------|-------|-------|-------|--------|----------------|
| | Loss | Factor | Level | Level | Line | | |
| | MHz | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.19 | 0.02 | 9.64 | 31.21 | 40.87 | 54.15 | -13.28 Average |
| 2 | 0.19 | 0.02 | 9.64 | 42.70 | 52.36 | 64.15 | -11.79 QP |
| 3 | 0.24 | 0.03 | 9.64 | 27.62 | 37.29 | 52.17 | -14.88 Average |
| 4 | 0.24 | 0.03 | 9.64 | 38.08 | 47.75 | 62.17 | -14.42 QP |
| 5 | 0.61 | 0.07 | 9.64 | 22.82 | 32.53 | 46.00 | -13.47 Average |
| 6 | 0.61 | 0.07 | 9.64 | 30.50 | 40.21 | 56.00 | -15.79 QP |
| 7 | 1.35 | 0.12 | 9.70 | 18.52 | 28.34 | 46.00 | -17.66 Average |
| 8 | 1.35 | 0.12 | 9.70 | 27.87 | 37.69 | 56.00 | -18.31 QP |
| 9 | 4.98 | 0.17 | 9.71 | 11.52 | 21.40 | 46.00 | -24.60 Average |
| 10 | 4.98 | 0.17 | 9.71 | 20.34 | 30.22 | 56.00 | -25.78 QP |
| 11 | 6.45 | 0.17 | 9.75 | 10.01 | 19.93 | 50.00 | -30.07 Average |
| 12 | 6.45 | 0.17 | 9.75 | 19.18 | 29.10 | 60.00 | -30.90 QP |

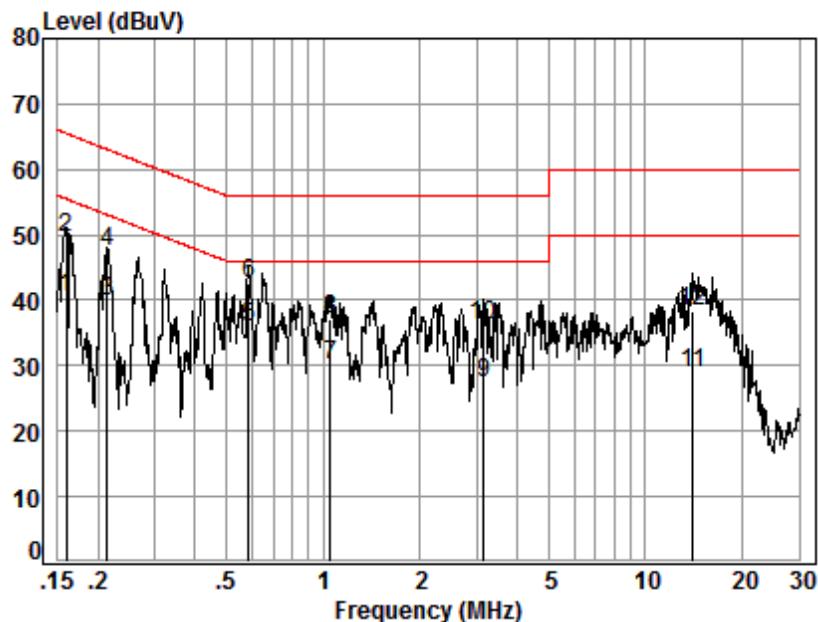


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Mode:h; Line:Live Line



Site : Shielding Room

Condition: Line

Job No. : 11311CR

Test mode: h

| Freq | Cable | LISN | Read | Limit | Over | Remark | | |
|------|-------|------|--------|-------|-------|--------|--------|---------|
| | MHz | Loss | Factor | Level | Level | Line | Limit | |
| 1 | 0.16 | 0.01 | 9.66 | 30.85 | 40.52 | 55.52 | -15.00 | Average |
| 2 | 0.16 | 0.01 | 9.66 | 39.99 | 49.66 | 65.52 | -15.86 | QP |
| 3 | 0.21 | 0.02 | 9.66 | 30.28 | 39.96 | 53.05 | -13.09 | Average |
| 4 | 0.21 | 0.02 | 9.66 | 37.64 | 47.32 | 63.05 | -15.73 | QP |
| 5 | 0.59 | 0.07 | 9.67 | 26.24 | 35.98 | 46.00 | -10.02 | Average |
| 6 | 0.59 | 0.07 | 9.67 | 32.89 | 42.63 | 56.00 | -13.37 | QP |
| 7 | 1.05 | 0.09 | 9.74 | 20.26 | 30.09 | 46.00 | -15.91 | Average |
| 8 | 1.05 | 0.09 | 9.74 | 27.36 | 37.19 | 56.00 | -18.81 | QP |
| 9 | 3.16 | 0.16 | 9.71 | 17.58 | 27.45 | 46.00 | -18.55 | Average |
| 10 | 3.16 | 0.16 | 9.71 | 26.28 | 36.15 | 56.00 | -19.85 | QP |
| 11 | 14.06 | 0.20 | 10.27 | 18.44 | 28.91 | 50.00 | -21.09 | Average |
| 12 | 14.06 | 0.20 | 10.27 | 27.74 | 38.21 | 60.00 | -21.79 | QP |

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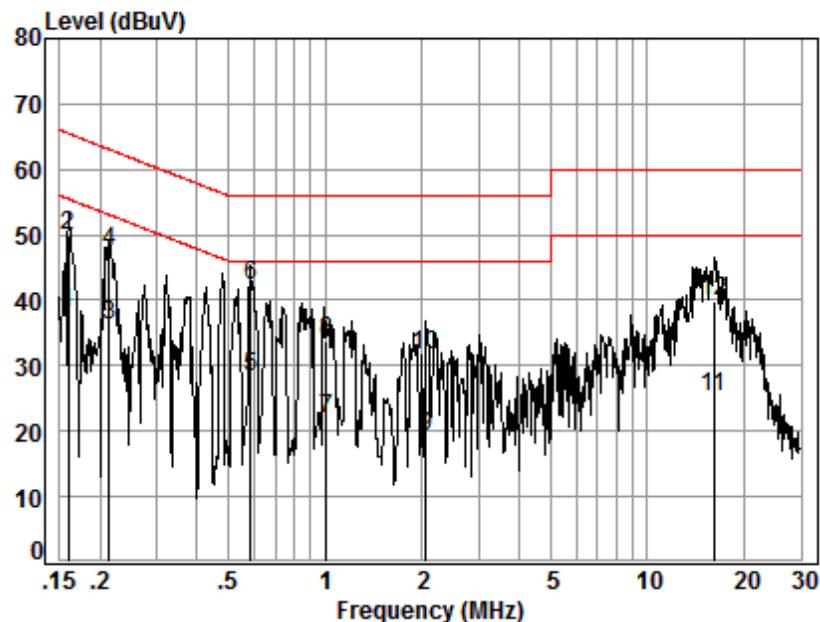
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Mode:h; Line:Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 11311CR

Test mode: h

| Freq | Cable | LISN | Read | Limit | Over | Remark |
|------|-------|------|--------|-------|-------|----------------------|
| | MHz | Loss | Factor | Level | Level | |
| 1 | 0.16 | 0.01 | 9.64 | 28.37 | 38.02 | 55.47 -17.45 Average |
| 2 | 0.16 | 0.01 | 9.64 | 40.37 | 50.02 | 65.47 -15.45 QP |
| 3 | 0.21 | 0.02 | 9.64 | 26.46 | 36.12 | 53.05 -16.93 Average |
| 4 | 0.21 | 0.02 | 9.64 | 37.84 | 47.50 | 63.05 -15.55 QP |
| 5 | 0.59 | 0.07 | 9.64 | 18.68 | 28.39 | 46.00 -17.61 Average |
| 6 | 0.59 | 0.07 | 9.64 | 32.45 | 42.16 | 56.00 -13.84 QP |
| 7 | 1.00 | 0.09 | 9.71 | 12.22 | 22.02 | 46.00 -23.98 Average |
| 8 | 1.00 | 0.09 | 9.71 | 24.05 | 33.85 | 56.00 -22.15 QP |
| 9 | 2.05 | 0.16 | 9.69 | 9.32 | 19.17 | 46.00 -26.83 Average |
| 10 | 2.05 | 0.16 | 9.69 | 21.66 | 31.51 | 56.00 -24.49 QP |
| 11 | 16.05 | 0.22 | 10.31 | 14.65 | 25.18 | 50.00 -24.82 Average |
| 12 | 16.05 | 0.22 | 10.31 | 29.31 | 39.84 | 60.00 -20.16 QP |

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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

Limit:

30MHz -88MHz 40.0(dB μ V/m) quasi-peak

88MHz-216MHz 43.5(dB μ V/m) quasi-peak

216MHz-960MHz 46.0(dB μ V/m) quasi-peak

960MHz-1000MHz 54.0(dB μ V/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz



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6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 51.5 % RH Atmospheric Pressure: 1015 mbar

The worst case for final test:
a: Transfer data between the EUT and the PC + cable1+ battery1

b: Transfer data between the EUT and the PC + cable2+ battery1

c: Transfer data between the EUT and the PC + cable3+ battery1

d: Transfer data between the EUT and the PC + cable4+ battery1

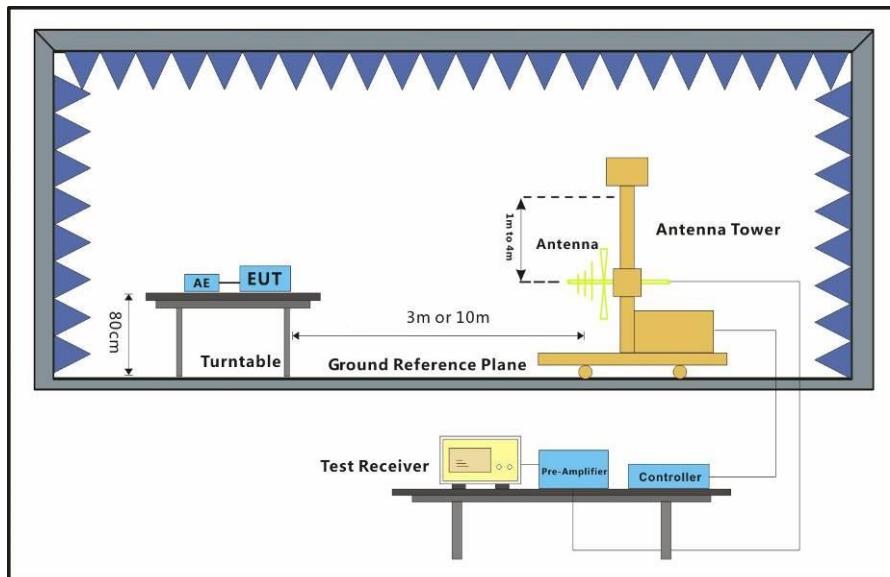
e: Telecom Idle + FM+BT + WLAN + GPS Rx + playing MP4 (SD card) + earphone1 + battery1 + adapter1

f: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Front) + earphone2 + battery1 + adapter2

g: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Back) + earphone3 + battery1 + adapter3

h: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Back) + earphone4 + battery1 + adapter4

6.2.2 Test Setup Diagram



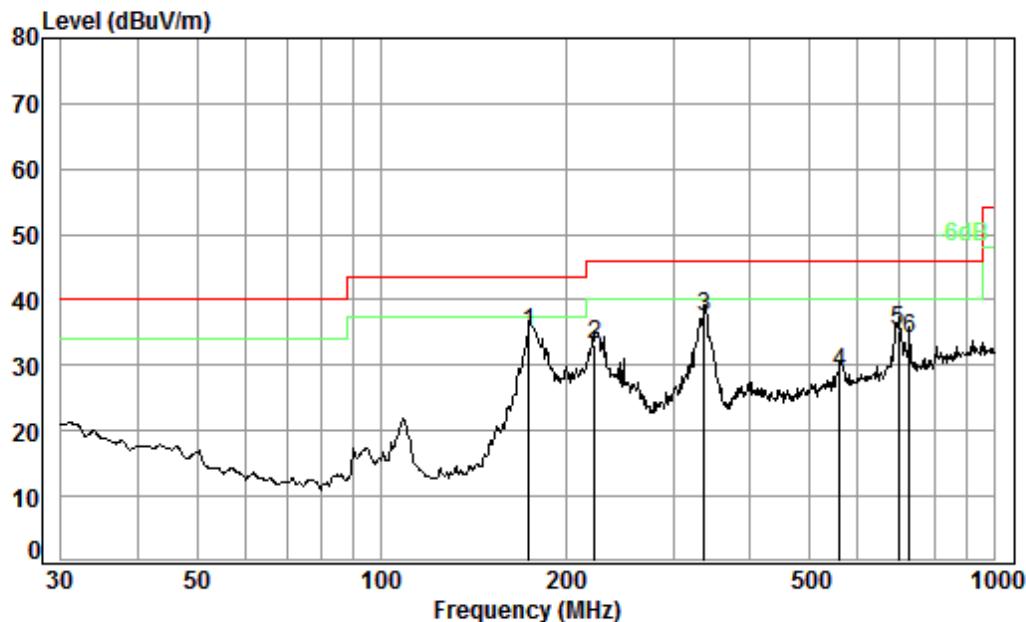
6.2.3 Measurement Data

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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Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11311CR

Test mode: a

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | | Limit Line | Over Limit |
|------|------------|------------|---------------|------------|--------|------------|--------------|
| | | | | Level | Level | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 pp | 174.42 | 1.36 | 15.79 | 26.99 | 44.74 | 34.90 | 43.50 -8.60 |
| 2 | 222.95 | 1.53 | 17.44 | 26.83 | 41.16 | 33.30 | 46.00 -12.70 |
| 3 | 336.04 | 2.02 | 20.70 | 26.85 | 41.47 | 37.34 | 46.00 -8.66 |
| 4 | 560.69 | 2.66 | 25.86 | 27.82 | 28.09 | 28.79 | 46.00 -17.21 |
| 5 | 699.30 | 2.90 | 27.89 | 27.78 | 32.36 | 35.37 | 46.00 -10.63 |
| 6 | 729.36 | 2.99 | 28.08 | 27.74 | 30.67 | 34.00 | 46.00 -12.00 |

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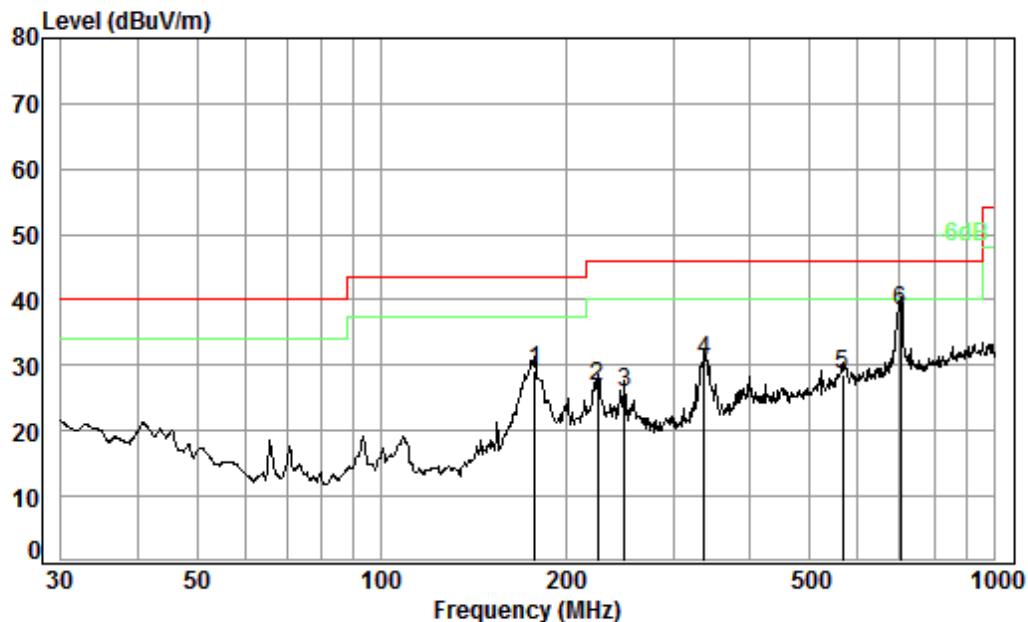
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Mode:a; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 11311CR

Test mode: a

| Freq | Cable | Ant | Preamp | Read | Limit | Over | | |
|------|--------|------|--------|--------|-------|-------|-------|--------|
| | MHz | Loss | Factor | Factor | Level | Level | Line | Limit |
| 1 | 178.13 | 1.37 | 15.86 | 26.98 | 39.06 | 29.31 | 43.50 | -14.19 |
| 2 | 225.31 | 1.55 | 17.64 | 26.83 | 34.27 | 26.63 | 46.00 | -19.37 |
| 3 | 249.43 | 1.67 | 18.94 | 26.76 | 31.95 | 25.80 | 46.00 | -20.20 |
| 4 | 337.22 | 2.02 | 20.74 | 26.86 | 34.79 | 30.69 | 46.00 | -15.31 |
| 5 | 566.62 | 2.67 | 25.97 | 27.84 | 27.75 | 28.55 | 46.00 | -17.45 |
| 6 pp | 704.23 | 2.92 | 27.93 | 27.78 | 35.32 | 38.39 | 46.00 | -7.61 |



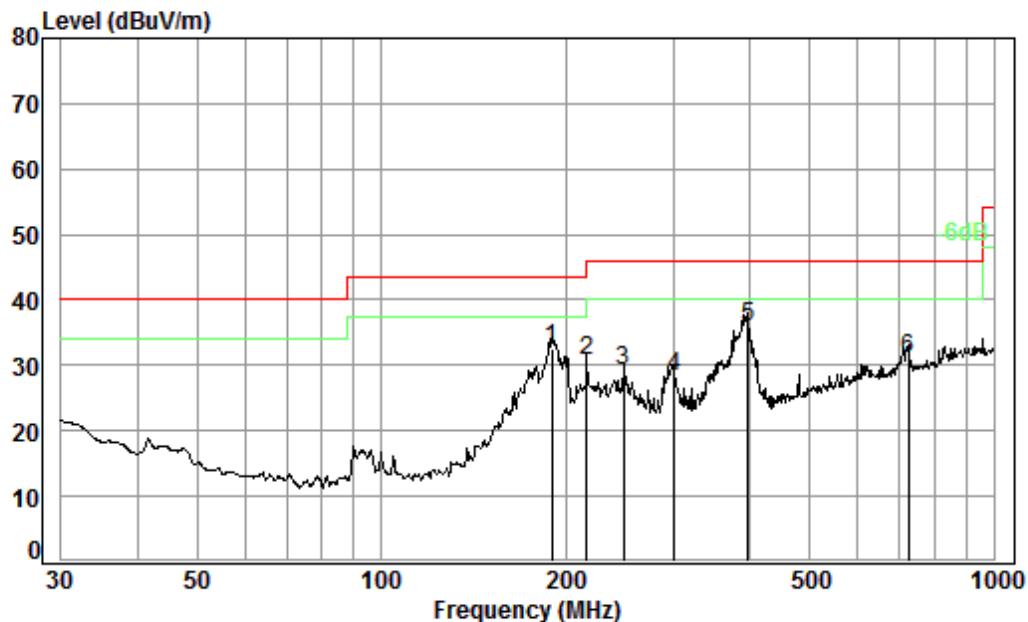
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Mode:b; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11311CR

Test mode: b

| Freq | Cable | Ant | Preamp | Read | Limit | Over | Line | Over |
|------|--------|--------|--------|-------|-------|--------|--------|--------|
| | Loss | Factor | Factor | Level | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 189.74 | 1.38 | 16.20 | 26.94 | 41.80 | 32.44 | 43.50 | -11.06 |
| 2 | 216.02 | 1.49 | 17.07 | 26.85 | 38.92 | 30.63 | 46.00 | -15.37 |
| 3 | 248.55 | 1.67 | 18.93 | 26.76 | 35.36 | 29.20 | 46.00 | -16.80 |
| 4 | 300.37 | 1.90 | 19.61 | 26.64 | 33.29 | 28.16 | 46.00 | -17.84 |
| 5 pp | 396.24 | 2.19 | 22.31 | 27.17 | 38.55 | 35.88 | 46.00 | -10.12 |
| 6 | 724.26 | 2.98 | 28.05 | 27.75 | 27.82 | 31.10 | 46.00 | -14.90 |

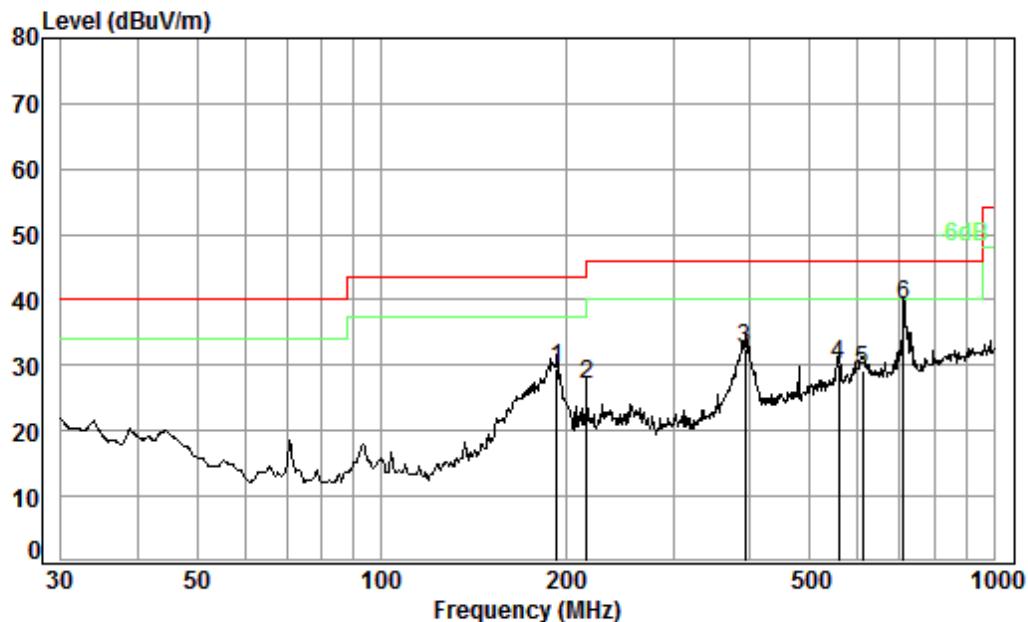


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Mode:b; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 11311CR

Test mode: b

| Freq | Cable | Ant | Preamp | Read | Limit | Over | | |
|------|--------|------|--------|-------|-------|-------|-------|--------|
| | MHz | Loss | Factor | Level | Level | Line | Limit | |
| 1 | 193.77 | 1.39 | 16.32 | 26.92 | 38.74 | 29.53 | 43.50 | -13.97 |
| 2 | 216.02 | 1.49 | 17.07 | 26.85 | 35.28 | 26.99 | 46.00 | -19.01 |
| 3 | 392.10 | 2.18 | 22.21 | 27.15 | 35.46 | 32.70 | 46.00 | -13.30 |
| 4 | 558.73 | 2.66 | 25.82 | 27.82 | 29.38 | 30.04 | 46.00 | -15.96 |
| 5 | 609.92 | 2.72 | 26.74 | 27.93 | 27.82 | 29.35 | 46.00 | -16.65 |
| 6 pp | 711.67 | 2.94 | 27.97 | 27.77 | 35.96 | 39.10 | 46.00 | -6.90 |



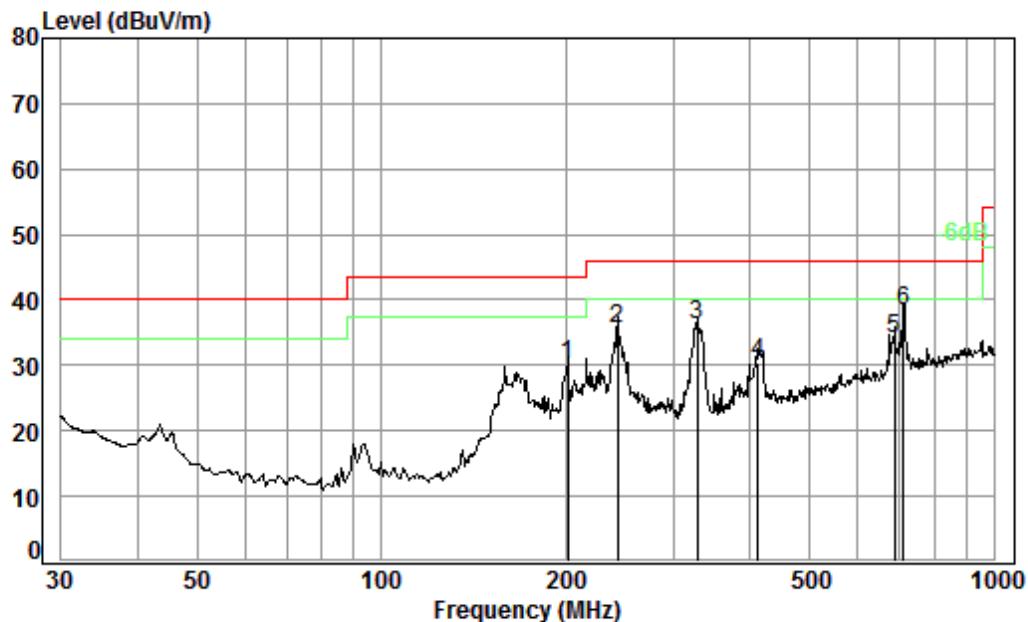
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Mode:c; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11311CR

Test mode: c

| Freq | Cable | Ant | Preamp | Read | Limit | Over | | |
|------|--------|--------|--------|-------|-------|--------|--------|--------|
| | Loss | Factor | Factor | Level | | | Line | Limit |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 201.39 | 1.41 | 16.55 | 26.90 | 39.14 | 30.20 | 43.50 | -13.30 |
| 2 | 243.38 | 1.64 | 18.85 | 26.78 | 41.73 | 35.44 | 46.00 | -10.56 |
| 3 | 327.89 | 1.99 | 20.47 | 26.81 | 40.61 | 36.26 | 46.00 | -9.74 |
| 4 | 411.82 | 2.25 | 22.69 | 27.24 | 32.84 | 30.54 | 46.00 | -15.46 |
| 5 | 689.56 | 2.88 | 27.77 | 27.80 | 31.17 | 34.02 | 46.00 | -11.98 |
| 6 pp | 711.67 | 2.94 | 27.97 | 27.77 | 35.07 | 38.21 | 46.00 | -7.79 |



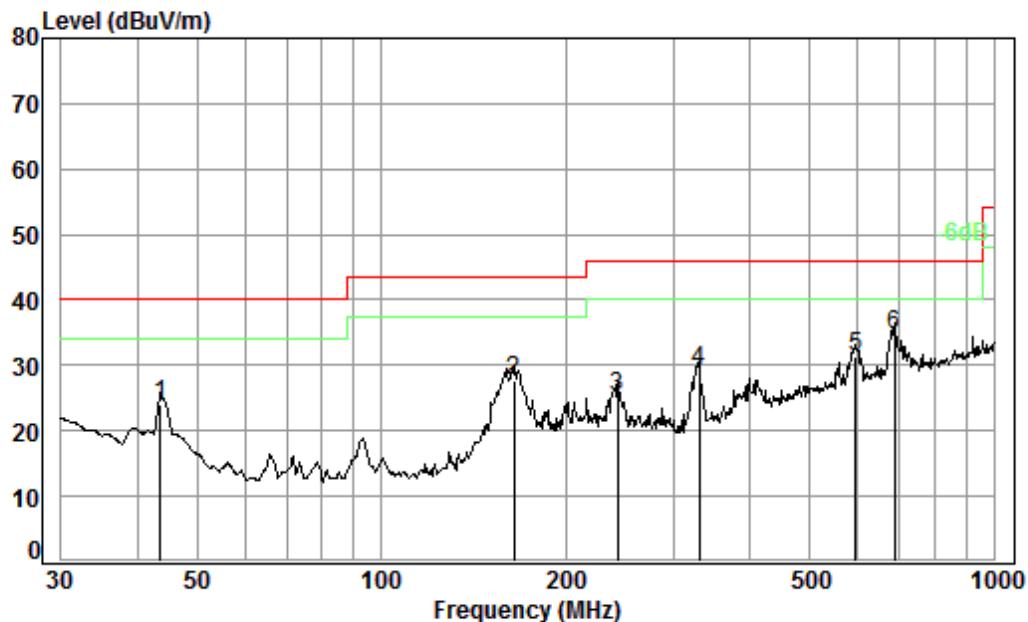
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Mode:c; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 11311CR

Test mode: c

| Freq | Cable | Ant | Preamp | Read | Limit | Over | | |
|------|--------|--------|--------|-------|-------|--------|--------|--------|
| | Loss | Factor | Factor | Level | | | Line | Limit |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 43.51 | 0.68 | 16.26 | 27.42 | 34.42 | 23.94 | 40.00 | -16.06 |
| 2 | 164.91 | 1.34 | 15.60 | 27.03 | 37.82 | 27.73 | 43.50 | -15.77 |
| 3 | 243.38 | 1.64 | 18.85 | 26.78 | 31.60 | 25.31 | 46.00 | -20.69 |
| 4 | 330.19 | 2.00 | 20.53 | 26.82 | 33.40 | 29.11 | 46.00 | -16.89 |
| 5 | 595.13 | 2.70 | 26.51 | 27.93 | 30.00 | 31.28 | 46.00 | -14.72 |
| 6 pp | 687.15 | 2.88 | 27.74 | 27.80 | 31.72 | 34.54 | 46.00 | -11.46 |



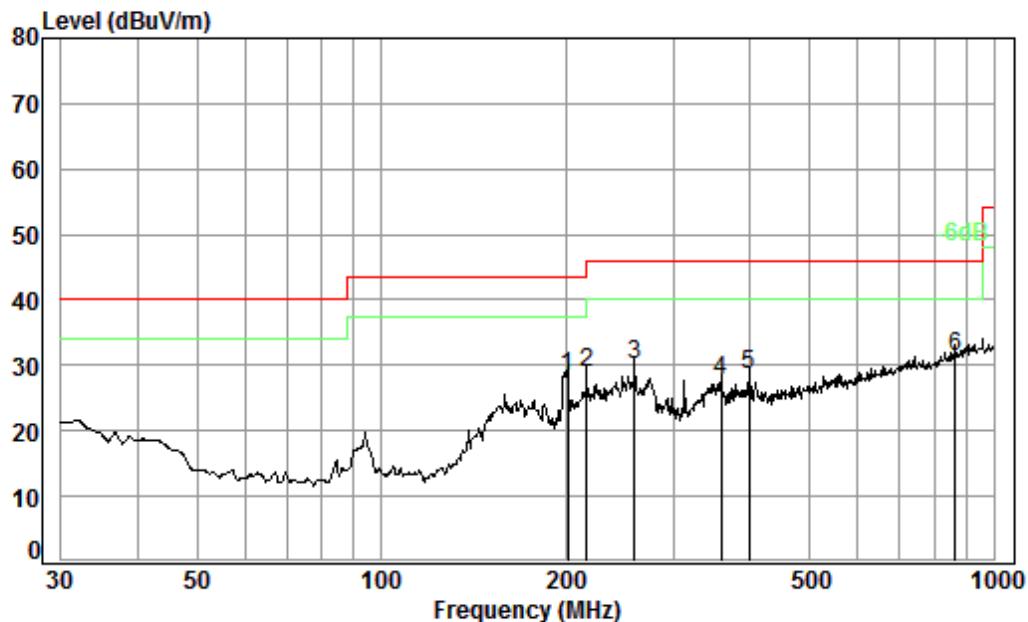
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Mode:d; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11311CR

Test mode: d

| Freq | Cable | Ant | Preamp | Read | Limit | Over | | |
|------|--------|--------|--------|-------|-------|--------|--------|--------|
| | Loss | Factor | Factor | Level | | | Line | Limit |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 201.39 | 1.41 | 16.55 | 26.90 | 37.20 | 28.26 | 43.50 | -15.24 |
| 2 | 216.02 | 1.49 | 17.07 | 26.85 | 37.30 | 29.01 | 46.00 | -16.99 |
| 3 | 259.23 | 1.72 | 19.09 | 26.73 | 36.04 | 30.12 | 46.00 | -15.88 |
| 4 | 359.19 | 2.09 | 21.35 | 26.98 | 31.11 | 27.57 | 46.00 | -18.43 |
| 5 | 399.03 | 2.20 | 22.38 | 27.18 | 31.08 | 28.48 | 46.00 | -17.52 |
| 6 pp | 866.09 | 3.47 | 29.38 | 27.25 | 25.67 | 31.27 | 46.00 | -14.73 |



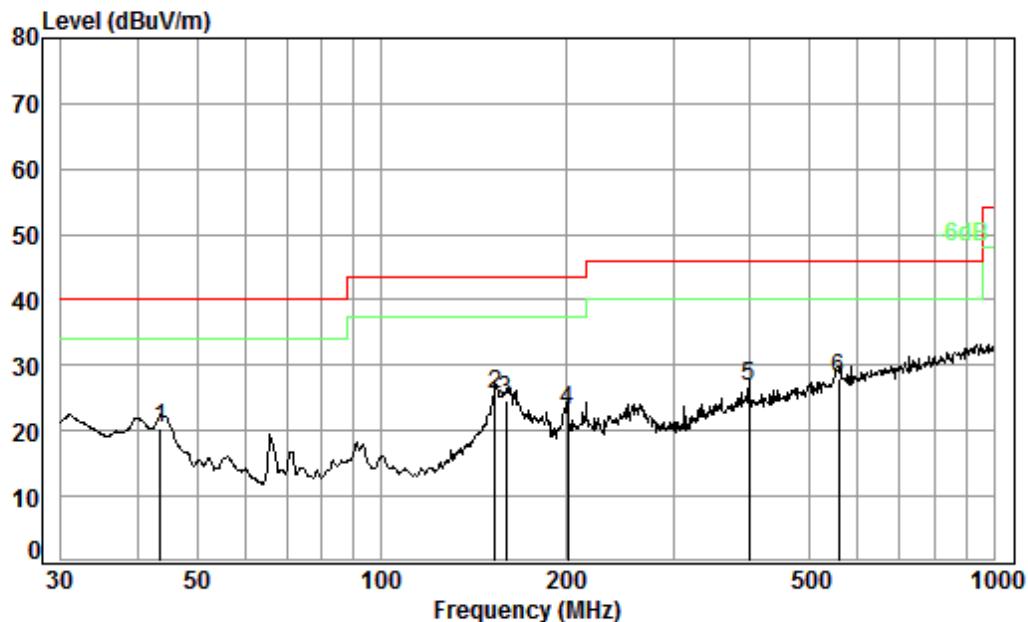
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Mode:d; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 11311CR

Test mode: d

| Freq | Cable | Ant | Preamp | Read | Limit | Over | |
|------|--------|------|--------|-------|-------|-------|--------------|
| | MHz | Loss | Factor | Level | Level | Line | Limit |
| 1 | 43.51 | 0.68 | 16.26 | 27.42 | 30.93 | 20.45 | 40.00 -19.55 |
| 2 pp | 153.20 | 1.32 | 14.91 | 27.07 | 36.31 | 25.47 | 43.50 -18.03 |
| 3 | 159.78 | 1.34 | 15.48 | 27.05 | 34.80 | 24.57 | 43.50 -18.93 |
| 4 | 201.39 | 1.41 | 16.55 | 26.90 | 32.01 | 23.07 | 43.50 -20.43 |
| 5 | 399.03 | 2.20 | 22.38 | 27.18 | 29.27 | 26.67 | 46.00 -19.33 |
| 6 | 558.73 | 2.66 | 25.82 | 27.82 | 27.28 | 27.94 | 46.00 -18.06 |



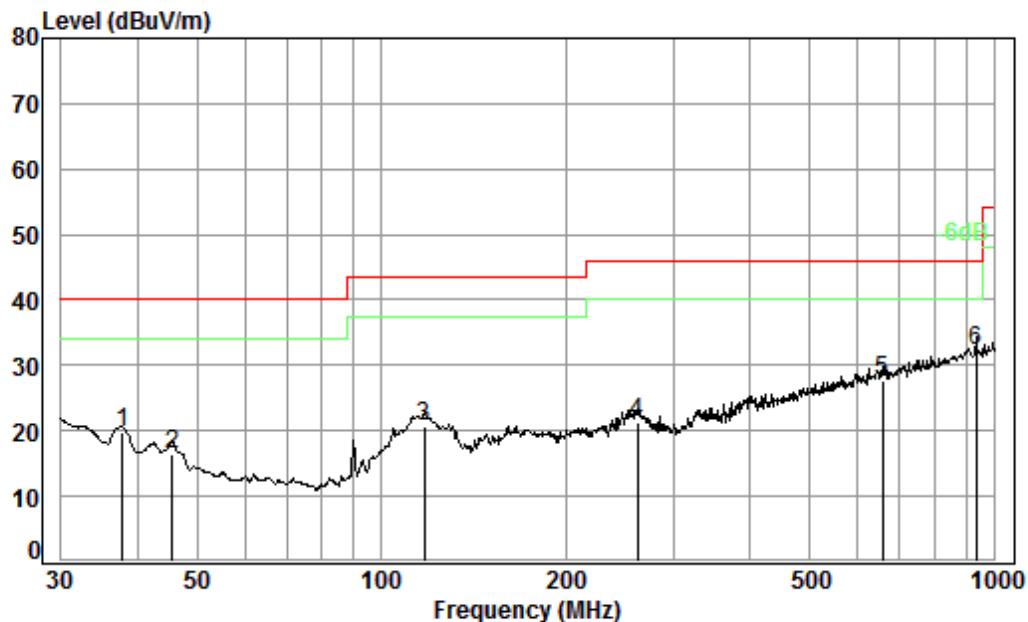
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Mode:e; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11311CR

Test mode: e

| Freq | Cable | Ant | Preamp | Read | Limit | Over | | |
|------|--------|--------|--------|-------|-------|--------|--------|--------|
| | Loss | Factor | Factor | Level | | | Line | Limit |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 37.81 | 0.60 | 18.48 | 27.43 | 28.04 | 19.69 | 40.00 | -20.31 |
| 2 | 45.53 | 0.72 | 15.58 | 27.42 | 27.69 | 16.57 | 40.00 | -23.43 |
| 3 | 117.36 | 1.25 | 13.21 | 27.25 | 33.48 | 20.69 | 43.50 | -22.81 |
| 4 | 261.98 | 1.73 | 19.07 | 26.73 | 27.29 | 21.36 | 46.00 | -24.64 |
| 5 | 658.84 | 2.82 | 27.39 | 27.85 | 25.45 | 27.81 | 46.00 | -18.19 |
| 6 pp | 935.55 | 3.64 | 29.98 | 26.86 | 25.51 | 32.27 | 46.00 | -13.73 |



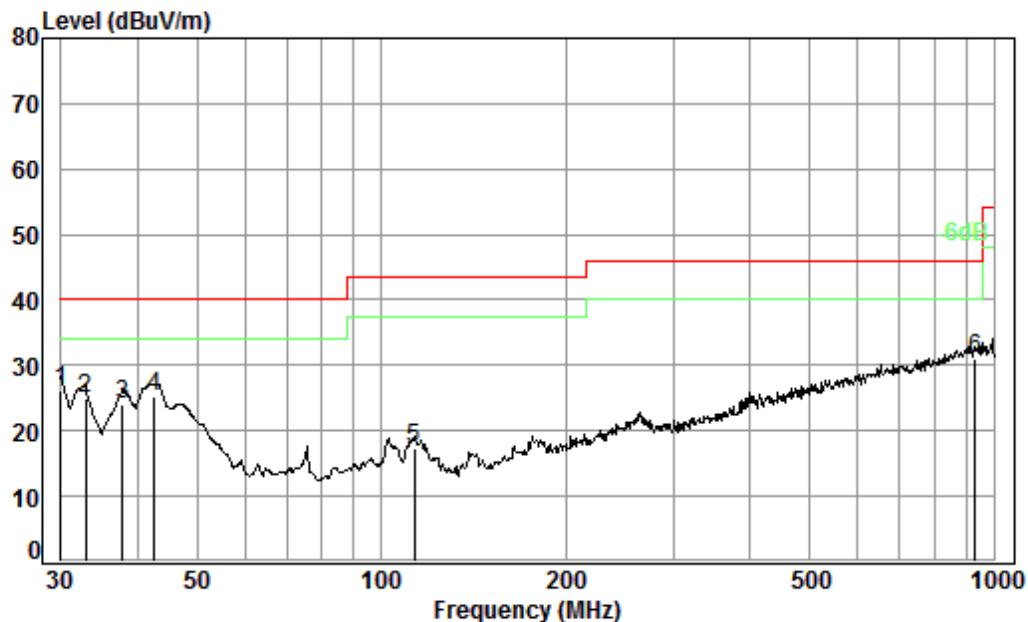
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Mode:e; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 11311CR

Test mode: e

| Freq | Cable | Ant | Preamp | Read | Limit | Over | | |
|------|--------|--------|--------|-------|-------|--------|--------|--------|
| | Loss | Factor | Factor | Level | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 pp | 30.00 | 0.60 | 22.50 | 27.45 | 30.57 | 26.22 | 40.00 | -13.78 |
| 2 | 32.86 | 0.60 | 20.92 | 27.45 | 30.87 | 24.94 | 40.00 | -15.06 |
| 3 | 37.81 | 0.60 | 18.48 | 27.43 | 32.52 | 24.17 | 40.00 | -15.83 |
| 4 | 42.60 | 0.66 | 16.57 | 27.42 | 35.39 | 25.20 | 40.00 | -14.80 |
| 5 | 113.32 | 1.24 | 13.38 | 27.27 | 29.85 | 17.20 | 43.50 | -26.30 |
| 6 | 932.27 | 3.63 | 29.97 | 26.88 | 24.25 | 30.97 | 46.00 | -15.03 |



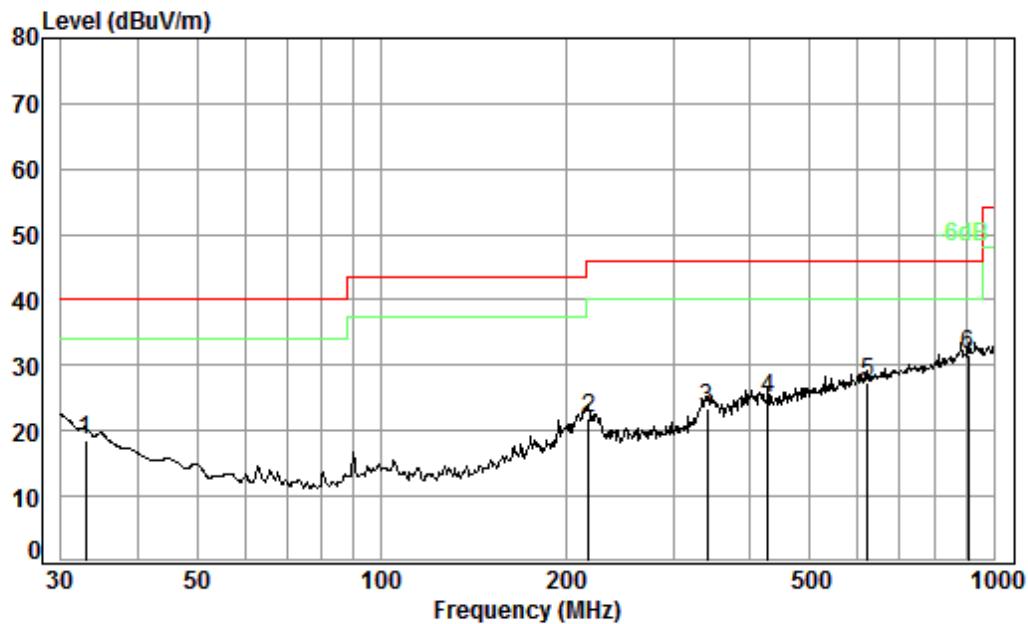
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Mode:f; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11311CR

Test mode: f

| | Freq | Cable | Ant | Preamp | Read | Limit | Over | |
|------|--------|-------|--------|--------|-------|--------|--------|--------|
| | | Loss | Factor | Factor | Level | Level | Line | Limit |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 32.86 | 0.60 | 20.92 | 27.45 | 24.57 | 18.64 | 40.00 | -21.36 |
| 2 | 218.31 | 1.51 | 17.14 | 26.85 | 30.14 | 21.94 | 46.00 | -24.06 |
| 3 | 340.78 | 2.03 | 20.84 | 26.88 | 27.36 | 23.35 | 46.00 | -22.65 |
| 4 | 428.02 | 2.32 | 23.07 | 27.31 | 26.72 | 24.80 | 46.00 | -21.20 |
| 5 | 622.89 | 2.75 | 26.92 | 27.91 | 25.59 | 27.35 | 46.00 | -18.65 |
| 6 pp | 906.48 | 3.61 | 29.83 | 27.02 | 25.09 | 31.51 | 46.00 | -14.49 |



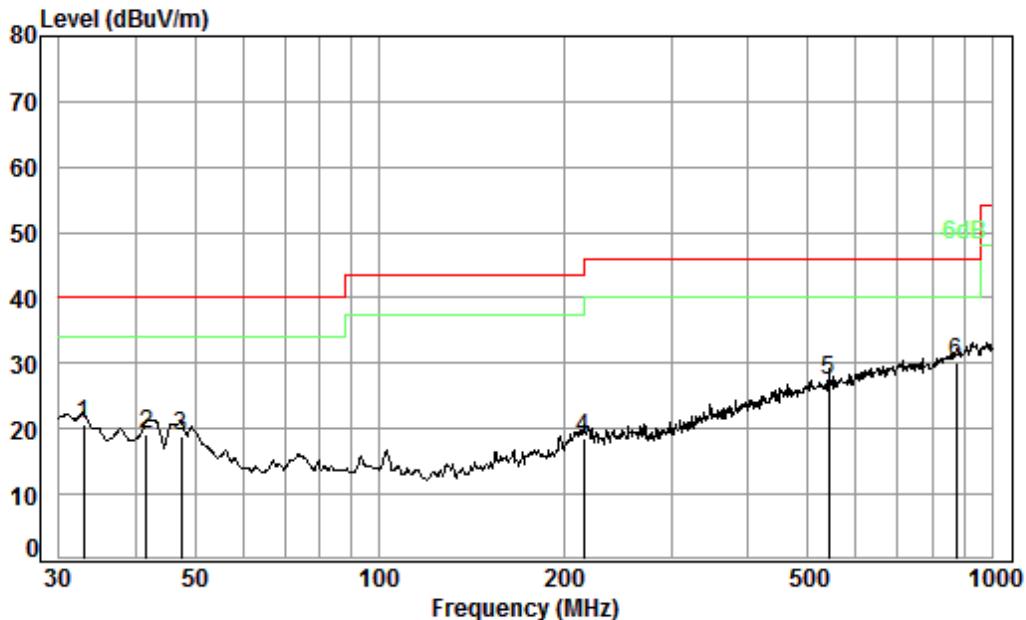
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Mode:f; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 11311CR

Test mode: f

| Freq | Cable | Ant | Preamp | Read | Limit | Over | | |
|------|--------|--------|--------|-------|-------|--------|--------|--------|
| | Loss | Factor | Factor | Level | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 32.86 | 0.60 | 20.92 | 27.45 | 26.62 | 20.69 | 40.00 | -19.31 |
| 2 | 41.71 | 0.64 | 16.88 | 27.43 | 29.14 | 19.23 | 40.00 | -20.77 |
| 3 | 47.49 | 0.75 | 14.96 | 27.41 | 30.65 | 18.95 | 40.00 | -21.05 |
| 4 | 215.27 | 1.49 | 17.04 | 26.85 | 26.96 | 18.64 | 43.50 | -24.86 |
| 5 | 541.37 | 2.64 | 25.47 | 27.76 | 26.94 | 27.29 | 46.00 | -18.71 |
| 6 pp | 875.25 | 3.51 | 29.49 | 27.19 | 24.40 | 30.21 | 46.00 | -15.79 |

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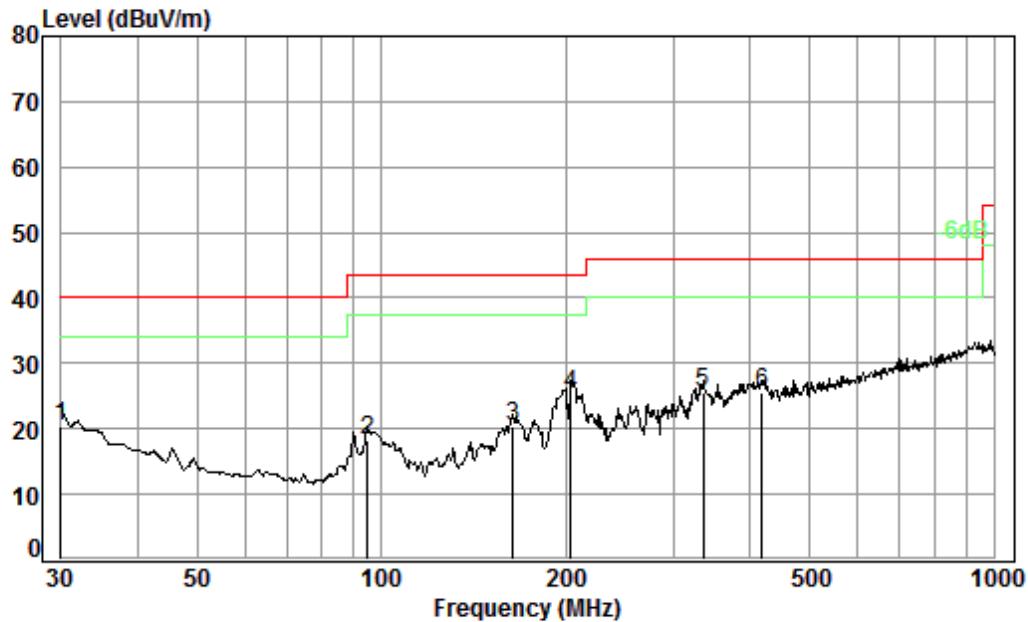
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Mode:g; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11311CR

Test mode: g

| Freq | Cable | Ant | Preamp | Read | Limit | Over | | |
|------|--------|--------|--------|-------|-------|--------|--------|--------|
| | Loss | Factor | Factor | Level | | | Line | Limit |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 30.00 | 0.60 | 22.50 | 27.45 | 24.72 | 20.37 | 40.00 | -19.63 |
| 2 | 95.09 | 1.15 | 13.57 | 27.35 | 30.98 | 18.35 | 43.50 | -25.15 |
| 3 | 163.76 | 1.34 | 15.58 | 27.03 | 30.38 | 20.27 | 43.50 | -23.23 |
| 4 pp | 203.52 | 1.42 | 16.63 | 26.89 | 34.18 | 25.34 | 43.50 | -18.16 |
| 5 | 334.86 | 2.01 | 20.67 | 26.85 | 29.63 | 25.46 | 46.00 | -20.54 |
| 6 | 417.64 | 2.28 | 22.83 | 27.27 | 27.65 | 25.49 | 46.00 | -20.51 |



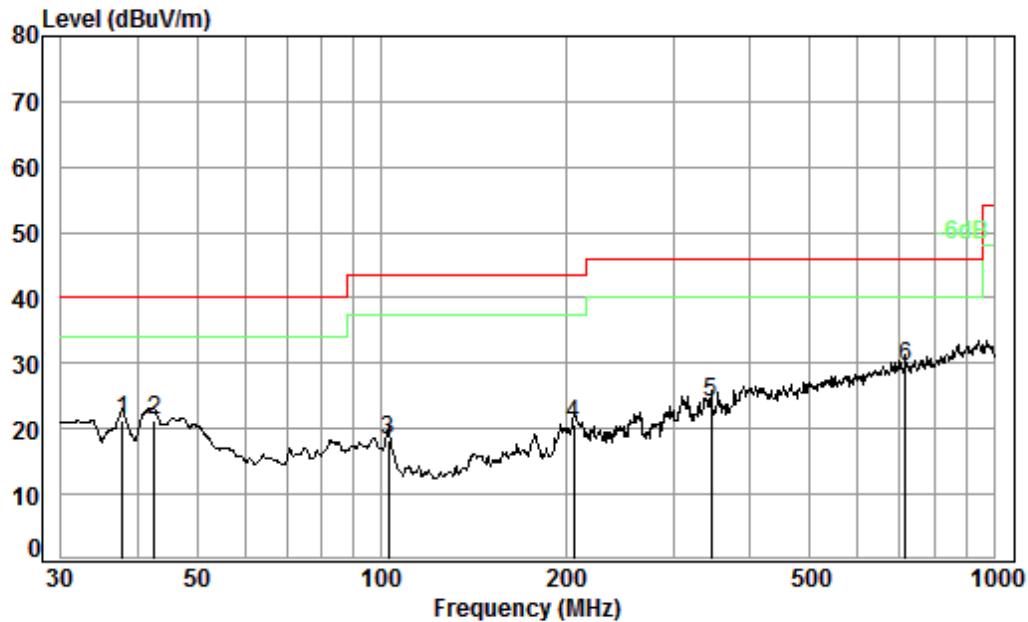
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Mode:g; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 11311CR

Test mode: g

| Freq | Cable | Ant | Preamp | Read | Limit | Over | |
|------|--------|------|--------|-------|-------|-------|--------------|
| | MHz | Loss | Factor | Level | Level | Line | Limit |
| 1 | 37.81 | 0.60 | 18.48 | 27.43 | 29.56 | 21.21 | 40.00 -18.79 |
| 2 | 42.60 | 0.66 | 16.57 | 27.42 | 31.35 | 21.16 | 40.00 -18.84 |
| 3 | 102.72 | 1.21 | 13.87 | 27.33 | 30.55 | 18.30 | 43.50 -25.20 |
| 4 | 206.40 | 1.44 | 16.73 | 26.88 | 29.26 | 20.55 | 43.50 -22.95 |
| 5 | 345.60 | 2.05 | 20.98 | 26.91 | 27.86 | 23.98 | 46.00 -22.02 |
| 6 pp | 716.68 | 2.96 | 28.01 | 27.76 | 26.18 | 29.39 | 46.00 -16.61 |



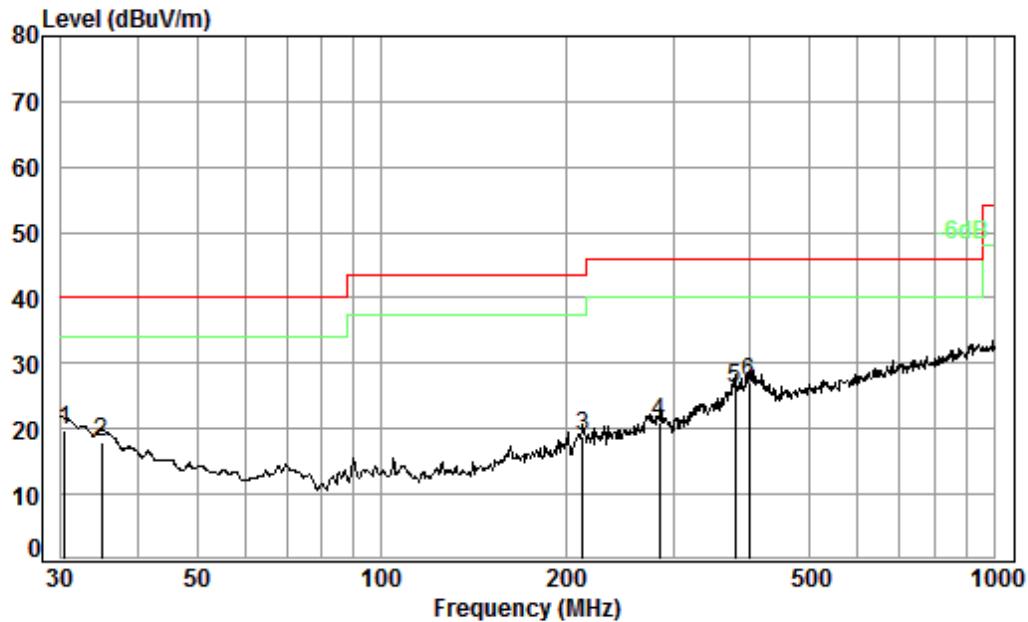
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Mode:h; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 11311CR

Test mode: h

| Freq | Cable | Ant | Preamp | Read | Limit | Over | | |
|------|--------|------|--------|-------|-------|-------|-------|--------|
| | MHz | Loss | Factor | Level | Level | Line | Limit | |
| 1 | 30.42 | 0.60 | 22.26 | 27.45 | 24.26 | 19.67 | 40.00 | -20.33 |
| 2 | 34.88 | 0.60 | 19.88 | 27.44 | 25.00 | 18.04 | 40.00 | -21.96 |
| 3 | 213.02 | 1.48 | 16.96 | 26.86 | 27.15 | 18.73 | 43.50 | -24.77 |
| 4 | 284.98 | 1.84 | 19.00 | 26.67 | 26.82 | 20.99 | 46.00 | -25.01 |
| 5 | 378.58 | 2.14 | 21.86 | 27.08 | 29.25 | 26.17 | 46.00 | -19.83 |
| 6 pp | 399.03 | 2.20 | 22.38 | 27.18 | 29.63 | 27.03 | 46.00 | -18.97 |



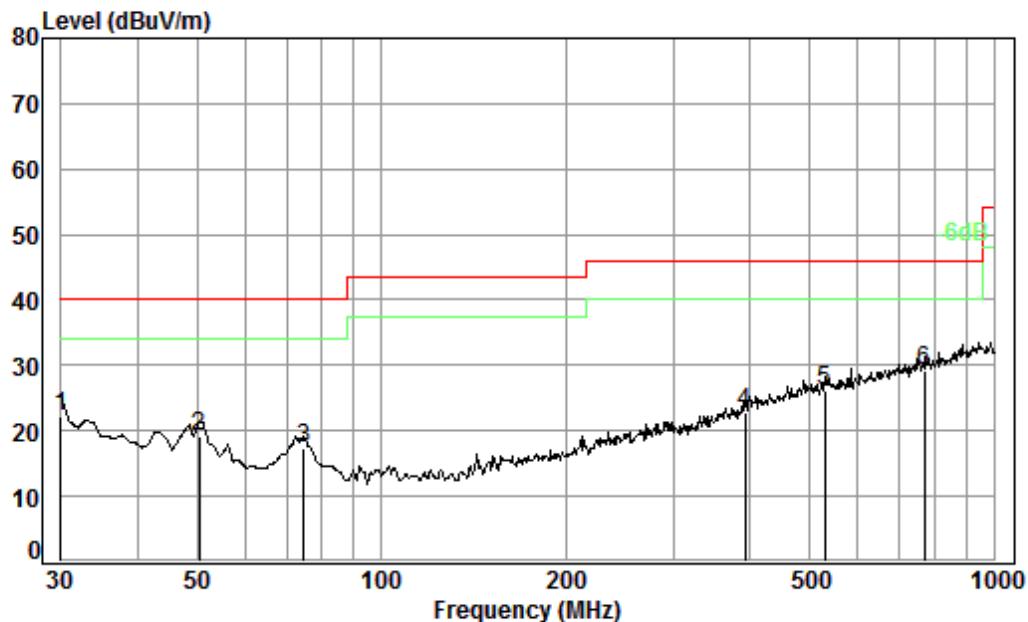
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Mode:h; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 11311CR

Test mode: h

| Freq | Cable | Ant | Preamp | Read | Limit | Over | | |
|------|--------|--------|--------|-------|-------|--------|--------|--------|
| | Loss | Factor | Factor | Level | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 30.00 | 0.60 | 22.50 | 27.45 | 26.66 | 22.31 | 40.00 | -17.69 |
| 2 | 50.41 | 0.80 | 14.16 | 27.41 | 31.67 | 19.22 | 40.00 | -20.78 |
| 3 | 74.66 | 0.94 | 12.41 | 27.38 | 31.29 | 17.26 | 40.00 | -22.74 |
| 4 | 392.10 | 2.18 | 22.21 | 27.15 | 25.47 | 22.71 | 46.00 | -23.29 |
| 5 | 530.10 | 2.63 | 25.24 | 27.72 | 26.16 | 26.31 | 46.00 | -19.69 |
| 6 pp | 768.75 | 3.11 | 28.32 | 27.68 | 25.52 | 29.27 | 46.00 | -16.73 |



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6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4:2014
Frequency Range: Above 1GHz
Measurement Distance: 3m
Limit:
Above 1GHz 74(dB μ V/m) peak, 54(dB μ V/m) average
Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 18000MHz



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6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 58 % RH Atmospheric Pressure: 1015 mbar

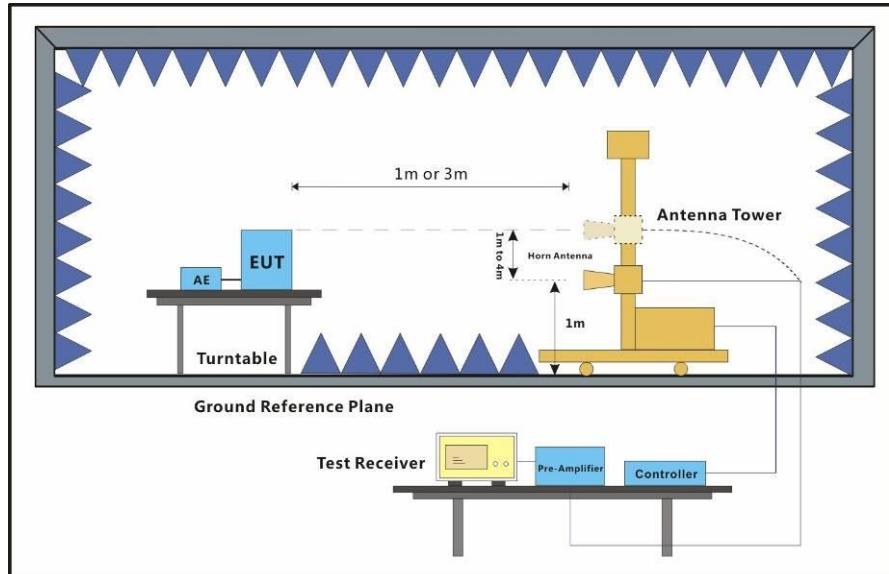
The worst case for final test:

- a: Transfer data between the EUT and the PC + cable1+ battery1

- f: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Front) + earphone2 + battery1 + adapter2

- i: GSM 850 + FM+ BT + WLAN + GPS Rx + earphone1 + battery1 + adapter1

6.3.2 Test Setup Diagram



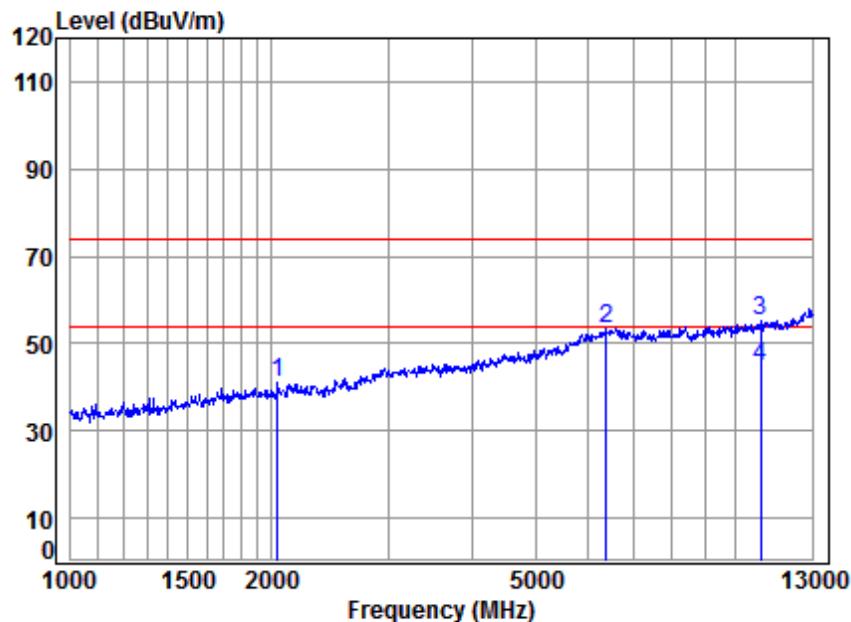
6.3.3 Measurement Data

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

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Mode:a; Polarization:Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11311CR
Mode : a

| Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|------|-----------|-------|--------|-------|-------|-------|---------------------|
| | MHz | Loss | Factor | Level | Level | Line | |
| 1 | 2045.456 | 4.97 | 27.89 | 41.02 | 49.12 | 40.96 | 74.00 -33.04 Peak |
| 2 | 6371.873 | 11.30 | 35.48 | 42.51 | 49.29 | 53.56 | 74.00 -20.44 Peak |
| 3 | 10863.440 | 11.54 | 37.77 | 38.21 | 44.12 | 55.22 | 74.00 -18.78 Peak |
| 4 | 10863.440 | 11.54 | 37.77 | 38.21 | 33.80 | 44.90 | 54.00 -9.10 Average |

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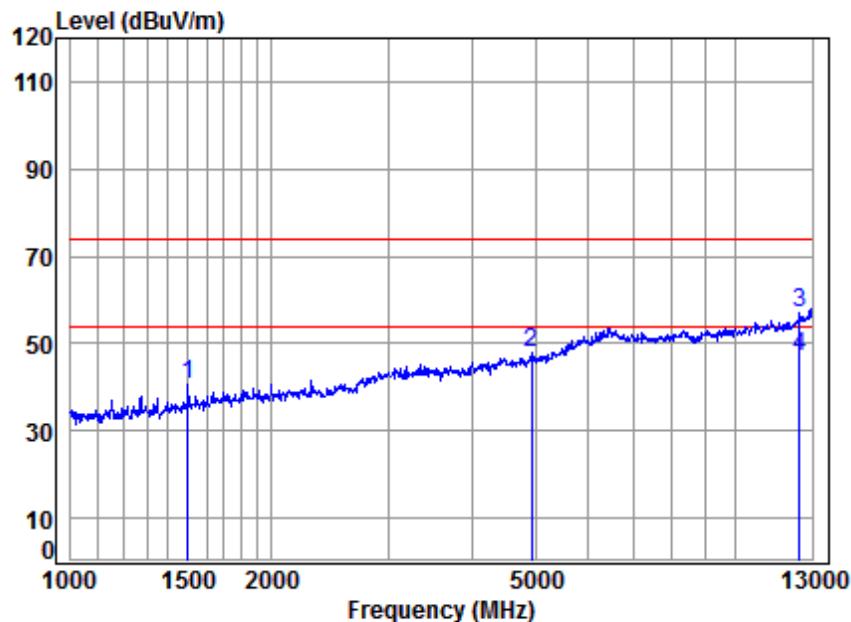
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Mode:a; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 11311CR
Mode : a

| Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Limit | Remark | |
|-------------|------------|------------|---------------|------------|-------------|------------|------------|---------|----|
| | | | | | | | | MHz | dB |
| 1 1499.695 | 5.48 | 25.80 | 40.71 | 49.98 | 40.55 | 74.00 | -33.45 | Peak | |
| 2 4917.664 | 8.01 | 34.11 | 43.72 | 49.45 | 47.85 | 74.00 | -26.15 | Peak | |
| 3 12445.330 | 12.64 | 37.88 | 39.03 | 45.76 | 57.25 | 74.00 | -16.75 | Peak | |
| 4 12445.330 | 12.64 | 37.88 | 39.03 | 35.60 | 47.09 | 54.00 | -6.91 | Average | |

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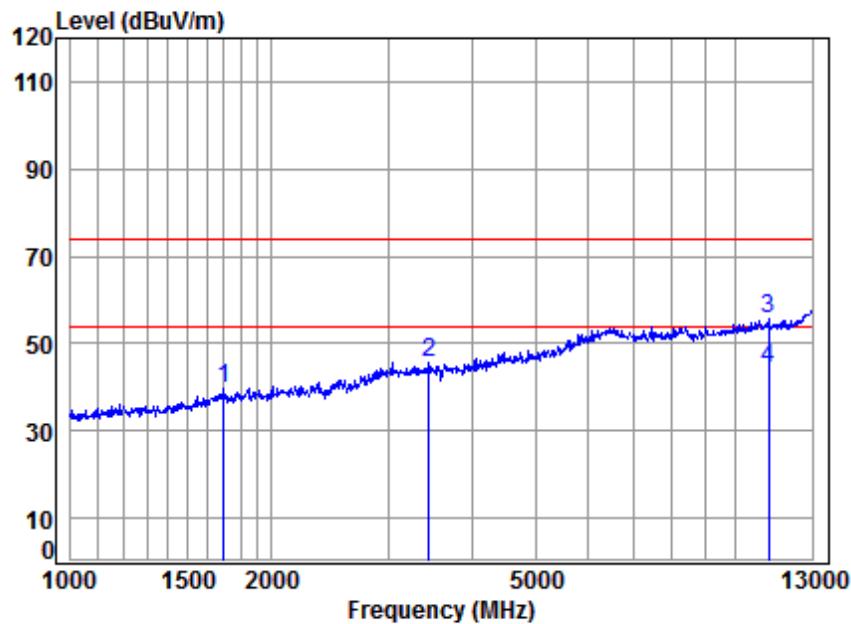
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Mode:f; Polarization:Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11311CR
Mode : f

| Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|-------------|-------|-------|--------|-------|-------|-------|---------------|
| | MHz | Loss | Factor | Level | Level | Line | |
| 1 1700.538 | 5.23 | 26.67 | 40.83 | 48.48 | 39.55 | 74.00 | -34.45 Peak |
| 2 3451.713 | 6.42 | 31.63 | 42.06 | 49.73 | 45.72 | 74.00 | -28.28 Peak |
| 3 11203.010 | 11.84 | 37.84 | 38.36 | 44.37 | 55.69 | 74.00 | -18.31 Peak |
| 4 11203.010 | 11.84 | 37.84 | 38.36 | 32.98 | 44.30 | 54.00 | -9.70 Average |



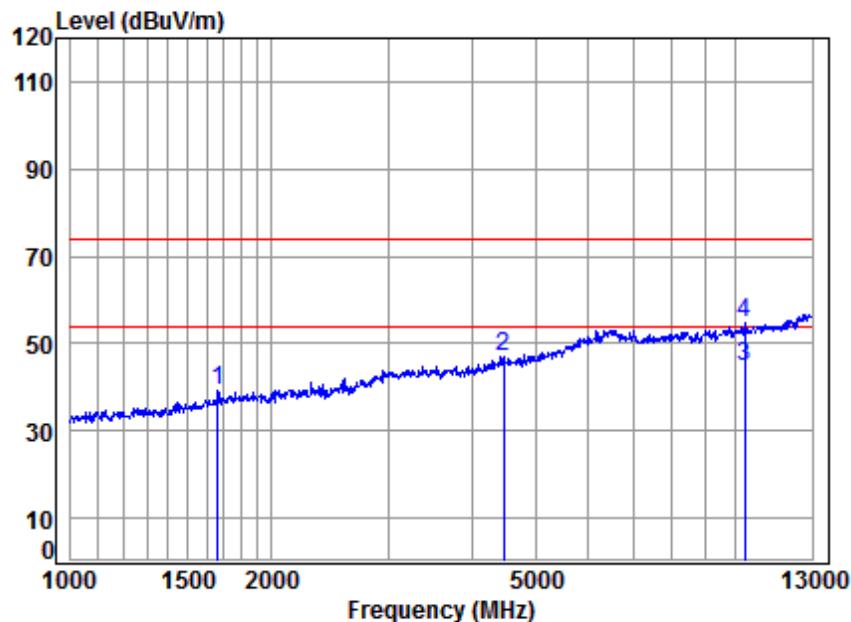
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Mode:f; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 11311CR
Mode : f

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Limit | Over Limit | Remark |
|---|-----------|------------|------------|---------------|------------|-------------|------------|------------|---------|
| | MHz | dB | dB/m | | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1665.999 | 5.27 | 26.53 | 40.81 | 48.12 | 39.11 | 74.00 | -34.89 | Peak |
| 2 | 4472.423 | 7.53 | 33.55 | 43.28 | 49.15 | 46.95 | 74.00 | -27.05 | Peak |
| 3 | 10293.770 | 11.15 | 37.78 | 37.94 | 33.62 | 44.61 | 54.00 | -9.39 | Average |
| 4 | 10293.770 | 11.15 | 37.78 | 37.94 | 43.66 | 54.65 | 74.00 | -19.35 | Peak |

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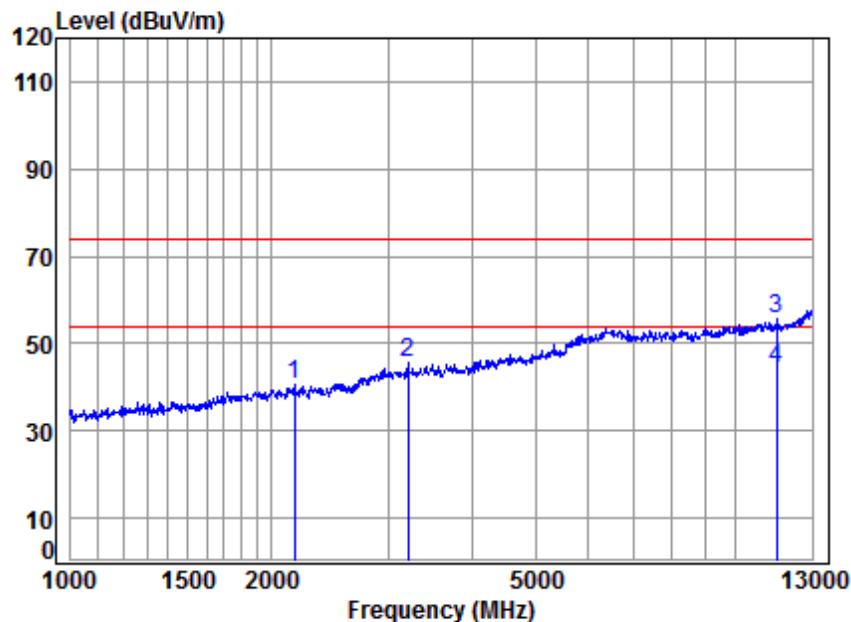
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Mode:i; Polarization:Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 11311CR
Mode : i

| | | Cable Freq | Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Line Level | Over Limit | Remark |
|---|-----------|---------------|-------|---------------|------------------|---------------|----------------|---------------|---------------|--------|
| | | MHz | dB | dB/m | | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2169.756 | 5.16 | 28.13 | 41.08 | 48.36 | 40.57 | 74.00 | -33.43 | Peak | |
| 2 | 3212.508 | 6.19 | 31.26 | 41.72 | 49.79 | 45.52 | 74.00 | -28.48 | Peak | |
| 3 | 11494.080 | 12.13 | 37.90 | 38.49 | 44.17 | 55.71 | 74.00 | -18.29 | Peak | |
| 4 | 11494.080 | 12.13 | 37.90 | 38.49 | 32.59 | 44.13 | 54.00 | -9.87 | Average | |

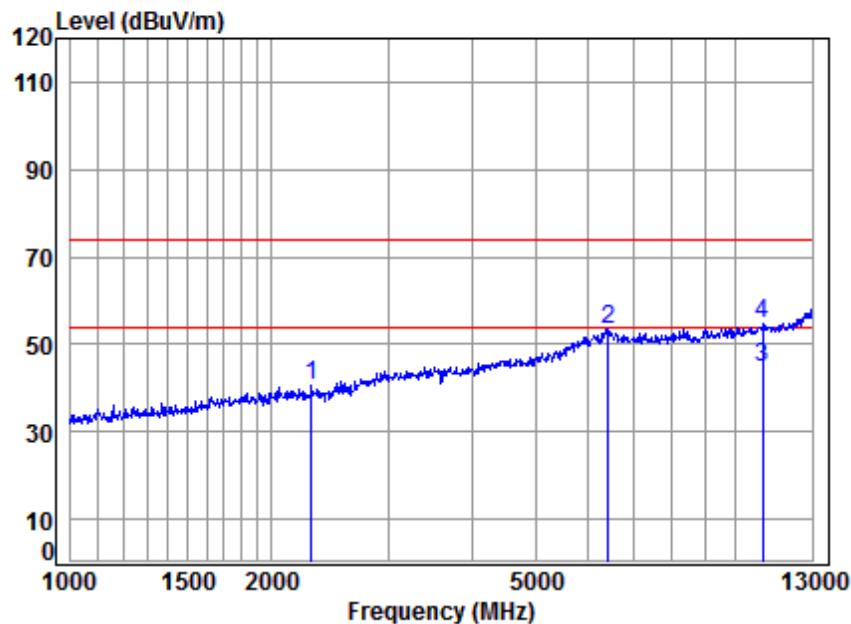
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Mode:i; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 11311CR
Mode : i

| | | Cable Freq | Ant Loss | Preamp Factor | Read Level | Limit Level | Line Level | Over Limit | Remark |
|---|-----------|---------------|-------------|------------------|---------------|----------------|---------------|---------------|---------|
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2295.713 | 5.34 | 28.36 | 41.13 | 48.17 | 40.74 | 74.00 | -33.26 | Peak |
| 2 | 6421.093 | 11.39 | 35.52 | 42.47 | 48.98 | 53.42 | 74.00 | -20.58 | Peak |
| 3 | 10947.350 | 11.59 | 37.79 | 38.25 | 33.64 | 44.77 | 54.00 | -9.23 | Average |
| 4 | 10947.350 | 11.59 | 37.79 | 38.25 | 43.65 | 54.78 | 74.00 | -19.22 | Peak |

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7 Photographs

7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup

7.2 Radiated Emissions (30MHz-1GHz) Test Setup

7.3 EUT Constructional Details (EUT Photos)

Refer to Appendix A - Photographs of EUT Constructional Details for ZR/2019/20008.

- End of the Report -



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