

FCC Part 15B Measurement and Test Report

For

PCD, LLC.

1500 Tradeport Drive, Suite A. Orlando, FL.

FCC ID: 2ALJJ-PL4002

Test Rule(s): FCC Part 15 Subpart B

Product Description: 4G Smart Phone

Tested Model: PL4002

Report No.: <u>STR17038302I-6</u>

Tested Date: <u>2017-03-28 to 2017-04-14</u>

Issued Date: <u>2017-04-14</u>

Tested By: Iven Guo / Engineer

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.



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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: PCD, LLC.

Address of applicant: 1500 Tradeport Drive, Suite A. Orlando, FL.

Manufacturer: Guizhou Fortuneship Technology Co., Ltd.
Address of manufacturer: (No. 4 Plant, High-tech Industrial Park, Xinpu

Economic Development Zone) Jingkai Road, Xinpu

Jingkai District, Xinpu New District, Zunyi City,

Guizhou Province, P. R. China

| General Description of EUT | |
|--|---|
| Product Name: | 4G Smart Phone |
| Trade Name: | PCD |
| Model No.: | PL4002 |
| Adding Model(s): | / |
| | |
| Note: The test data is gathered from a p | roduction sample, provided by the manufacturer. |

| Technical Characteristics of EUT | | | | |
|----------------------------------|---|--|--|--|
| Rated Voltage: | DC 3.8V Li-ion Battery | | | |
| Rated Current: | / | | | |
| Rated Power: | 1 | | | |
| Power Adeptor Model: | PL4002 | | | |
| Power Adapter Model: | Input:100V-240V, 50/60Hz,0.15A;Output:5V,1A | | | |
| Lowest Internal Frequency: | 32.768kHz | | | |
| Highest Internal Frequency: | 1.5GHz | | | |
| Classification of ITE: | Class B | | | |

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1.2 Test Standards

The following report is prepared on behalf of the PCD, LLC. in accordance with Part 2, Subpart J, and Part 15, Subparts A and B of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart B, and section 15.205, 15.107, and 15.109 rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.4 Test Facility

FCC - Registration No.: 934118

Shenzhen SEM.Test Technology Co., Ltd. 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 and the Registration is 934118.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM. Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

CNAS Registration No.: L4062

Shenzhen SEM. Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101).

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1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode List:

| Test Mode | Description | Remark |
|-----------|--------------------|--------|
| TM1 | Charging + Playing | / |
| TM2 | Downloading | / |
| TM3 | Charging + Camera | / |
| TM4 | FM | / |

EUT Cable List and Details

| Cable Description | Cable Description Length (M) | | With Core/Without Core |
|-------------------|------------------------------|------------|------------------------|
| USB Cable | USB Cable 1.0 | | Without Ferrite |
| Earphone | 1.2 | Unshielded | Without Ferrite |

Auxiliary Equipment List and Details

| Description | on Manufacturer Model | | Serial Number | |
|-------------|-----------------------|-----|---------------|--|
| Notebook | Lenovo | E10 | LR-63C8R | |

Special Cable List and Details

| Cable Description | Length (M) | Shielded/Unshielded | With Core/Without Core | |
|-------------------|------------|---------------------|------------------------|--|
| / | / | / | / | |

1.6 Measurement Uncertainty

| Measurement uncertainty | | | | |
|--------------------------------|------------|---------------|--|--|
| Parameter | Conditions | Uncertainty | | |
| Conducted Emissions | Conducted | ± 2.88 dB | | |
| Transmitter Spurious Emissions | Radiated | ±5.1dB | | |

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1.7 Test Equipment List and Details

| No. | Description | Manufacturer | Model | Serial No. | Cal Date | Due Date |
|-----------|-------------------|-----------------|-----------|------------|------------|-----------------|
| SEMT-1072 | Spectrum Analyzer | Agilent | E4407B | MY41440400 | 2016-06-04 | 2017-06-03 |
| SEMT-1031 | Spectrum Analyzer | Rohde & Schwarz | FSP30 | 836079/035 | 2016-06-04 | 2017-06-03 |
| SEMT-1007 | EMI Test Receiver | Rohde & Schwarz | ESVB | 825471/005 | 2016-06-04 | 2017-06-03 |
| SEMT-1008 | Amplifier | Agilent | 8447F | 3113A06717 | 2016-06-04 | 2017-06-03 |
| SEMT-1043 | Amplifier | C&D | PAP-1G18 | 2002 | 2016-06-04 | 2017-06-03 |
| SEMT-1011 | Broadband Antenna | Schwarz beck | VULB9163 | 9163-333 | 2016-06-04 | 2017-06-03 |
| SEMT-1042 | Horn Antenna | ETS | 3117 | 00086197 | 2016-06-04 | 2017-06-03 |
| SEMT-1069 | Loop Antenna | Schwarz beck | FMZB 1516 | 9773 | 2016-06-04 | 2017-06-03 |
| SEMT-1001 | EMI Test Receiver | Rohde & Schwarz | ESPI | 101611 | 2016-06-04 | 2017-06-03 |
| SEMT-1003 | L.I.S.N | Schwarz beck | NSLK8126 | 8126-224 | 2016-06-04 | 2017-06-03 |
| SEMT-1002 | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100911 | 2016-06-04 | 2017-06-03 |



2. SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test Item Result | |
|--------------|---------------------------------|-----------|
| § 15.107 (a) | Conducted Emissions | Compliant |
| § 15.109 (a) | Radiated Emissions | Compliant |

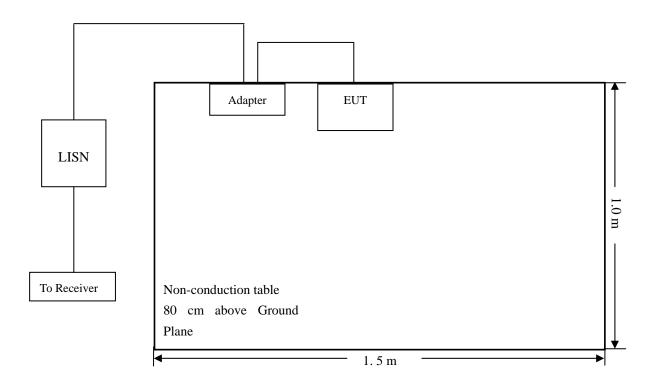
N/A: not applicable

3. Conducted Emissions

3.1 Test Procedure

Test is conducting under the description of ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

3.2 Basic Test Setup Block Diagram



3.3 Environmental Conditions

| Temperature: | 23 °C |
|--------------------|-----------|
| Relative Humidity: | 52% |
| ATM Pressure: | 1011 mbar |

3.4 Summary of Test Results/Plots

According to the data in section 3.5, the EUT <u>complied with the FCC Part 15.107(a)</u> Conducted margin for a Class B device, with the *worst* margin reading of:

-2.08 dB at **0.5940 MHz** in the **Line**, **QP** detector, TM1, 0.15-30MHz

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3.5 Conducted Emissions Test Data

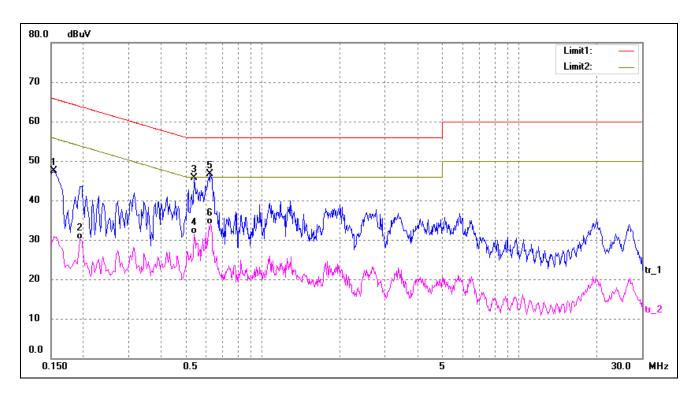
Plot of Conducted Emissions Test Data

EUT: 4G Smart Phone

Tested Model: PL4002 Operating Condition: TM1

Comment: AC 120V/60Hz; Adapter DC 5V

Test Specification: Neutral

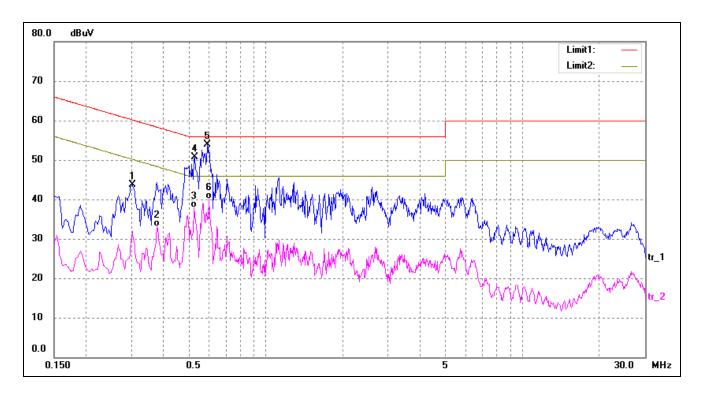


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Detector |
|-----|-----------|---------|---------|--------|--------|--------|----------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.1540 | 37.58 | 9.85 | 47.43 | 65.78 | -18.35 | QP |
| 2 | 0.1940 | 20.34 | 9.81 | 30.15 | 53.86 | -23.71 | AVG |
| 3 | 0.5420 | 35.99 | 9.80 | 45.79 | 56.00 | -10.21 | QP |
| 4 | 0.5420 | 21.70 | 9.80 | 31.50 | 46.00 | -14.50 | AVG |
| 5* | 0.6260 | 36.91 | 9.79 | 46.70 | 56.00 | -9.30 | QP |
| 6 | 0.6300 | 24.21 | 9.79 | 34.00 | 46.00 | -12.00 | AVG |

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Test Specification: Line



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Detector |
|-----|-----------|---------|---------|--------|--------|--------|----------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.3020 | 33.98 | 9.80 | 43.78 | 60.19 | -16.41 | QP |
| 2 | 0.3780 | 23.25 | 9.80 | 33.05 | 48.32 | -15.27 | AVG |
| 3 | 0.5260 | 28.11 | 9.80 | 37.91 | 46.00 | -8.09 | AVG |
| 4 | 0.5300 | 40.82 | 9.80 | 50.62 | 56.00 | -5.38 | QP |
| 5* | 0.5940 | 44.13 | 9.79 | 53.92 | 56.00 | -2.08 | QP |
| 6 | 0.6020 | 30.39 | 9.79 | 40.18 | 46.00 | -5.82 | AVG |



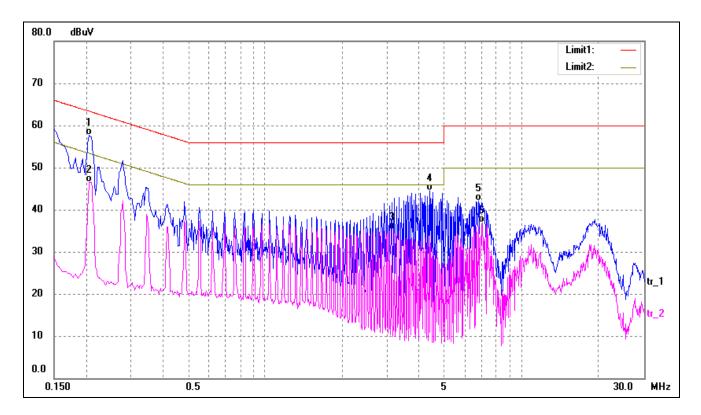
Plot of Conducted Emissions Test Data

EUT: 4G Smart Phone

Tested Model: PL4002 Operating Condition: TM2

Comment: AC 120V/60Hz; USB 5V

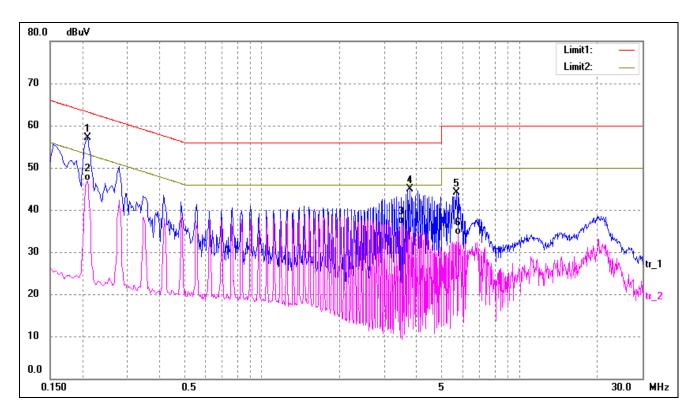
Test Specification: Neutral



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Detector |
|-----|-----------|---------|---------|--------|--------|--------|----------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV) | (dBuV) | (dB) | |
| 1* | 0.2060 | 57.62 | 0.00 | 57.62 | 63.37 | -5.75 | QP |
| 2 | 0.2060 | 46.57 | 0.00 | 46.57 | 53.37 | -6.80 | AVG |
| 3 | 3.1140 | 35.23 | 0.00 | 35.23 | 46.00 | -10.77 | AVG |
| 4 | 4.3620 | 44.41 | 0.00 | 44.41 | 56.00 | -11.59 | QP |
| 5 | 6.7820 | 42.16 | 0.00 | 42.16 | 60.00 | -17.84 | QP |
| 6 | 7.0620 | 36.81 | 0.00 | 36.81 | 50.00 | -13.19 | AVG |



Test Specification: Line



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Detector |
|-----|-----------|---------|---------|--------|--------|--------|----------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV) | (dBuV) | (dB) | |
| 1* | 0.2100 | 57.07 | 0.00 | 57.07 | 63.21 | -6.14 | peak |
| 2 | 0.2100 | 46.81 | 0.00 | 46.81 | 53.21 | -6.40 | AVG |
| 3 | 3.4700 | 36.72 | 0.00 | 36.72 | 46.00 | -9.28 | AVG |
| 4 | 3.7460 | 44.90 | 0.00 | 44.90 | 56.00 | -11.10 | peak |
| 5 | 5.6900 | 44.02 | 0.00 | 44.02 | 60.00 | -15.98 | peak |
| 6 | 5.7580 | 34.20 | 0.00 | 34.20 | 50.00 | -15.80 | AVG |



4. Radiated Emissions

4.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.109 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.





4.2 Test Receiver Setup

Frequency :9kHz-30MHz Frequency :30MHz-1GHz Frequency :Above 1GHz

RBW=10KHz, RBW=120KHz, RBW=1MHz,

VBW=30KHz VBW=300KHz VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto Sweep time= Auto Sweep time= Auto
Trace = max hold Trace = max hold Trace = max hold

Detector function = peak, QP Detector function = peak, AV

4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading – Corr. Factor

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6dB\mu V$ means the emission is $6dB\mu V$ below the maximum limit for a Class B device. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – FCC Part 15.109(a) Limit

4.4 Environmental Conditions

| Temperature: | 23 °C |
|--------------------|-----------|
| Relative Humidity: | 55 % |
| ATM Pressure: | 1011 mbar |

4.5 Summary of Test Results/Plots

According to the data, the EUT complied with the FCC Part 15.109(a) rule, and had the worst margin of:

-4.03 dB at 36.3814 MHz in the Vertical polarization, TM3 Mode, 30MHz to 12.75 GHz, 3Meters

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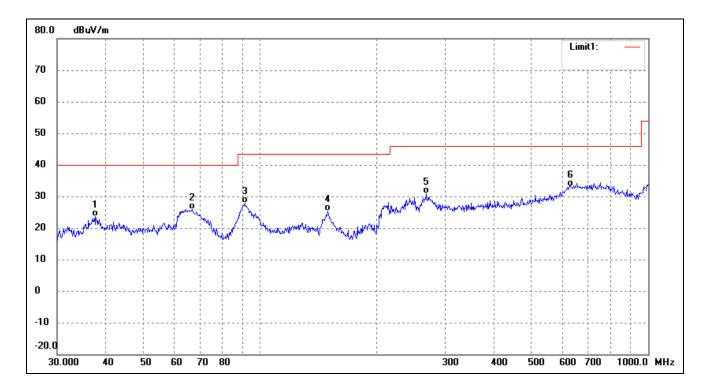
Plot of Radiated Emissions Test Data

EUT: 4G Smart Phone

Tested Model: PL4002 Operating Condition: TM1

Comment: AC 120V/60Hz; Adapter DC 5V

Test Specification: Horizontal

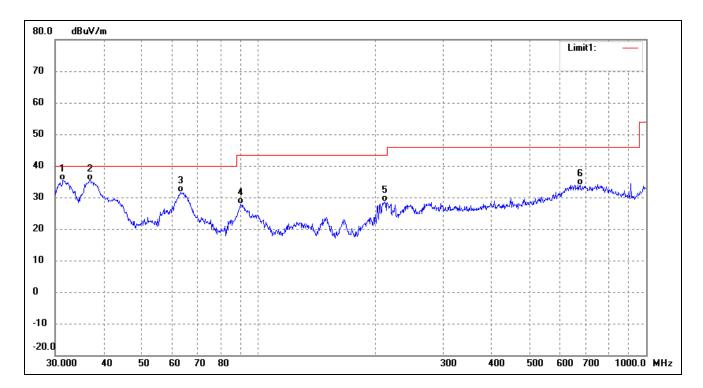


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | () | (cm) | |
| 1 | 37.6798 | 19.15 | 4.59 | 23.74 | 40.00 | -16.26 | 257 | 100 | QP |
| 2 | 66.7325 | 22.34 | 3.61 | 25.95 | 40.00 | -14.05 | 91 | 100 | QP |
| 3 | 91.4949 | 24.14 | 3.64 | 27.78 | 43.50 | -15.72 | 185 | 100 | QP |
| 4 | 149.4857 | 22.49 | 2.77 | 25.26 | 43.50 | -18.24 | 116 | 100 | QP |
| 5 | 267.5455 | 20.60 | 10.23 | 30.83 | 46.00 | -15.17 | 56 | 100 | QP |
| 6 | 627.2738 | 15.53 | 17.61 | 33.14 | 46.00 | -12.86 | 244 | 100 | QP |

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Test Specification: Vertical



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | () | (cm) | |
| 1 | 31.3992 | 31.70 | 3.58 | 35.28 | 40.00 | -4.72 | 243 | 100 | QP |
| 2 | 36.8953 | 31.03 | 4.47 | 35.50 | 40.00 | -4.50 | 100 | 100 | QP |
| 3 | 63.3132 | 27.20 | 4.35 | 31.55 | 40.00 | -8.45 | 167 | 100 | QP |
| 4 | 90.2205 | 24.51 | 3.44 | 27.95 | 43.50 | -15.55 | 113 | 100 | QP |
| 5 | 212.2695 | 22.69 | 6.02 | 28.71 | 43.50 | -14.79 | 298 | 100 | QP |
| 6 | 675.2080 | 15.50 | 18.42 | 33.92 | 46.00 | -12.08 | 264 | 100 | QP |

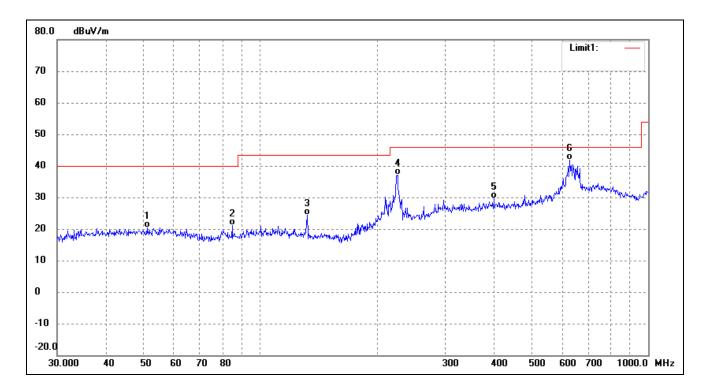
Plot of Radiated Emissions Test Data

EUT: 4G Smart Phone

Tested Model: PL4002 Operating Condition: TM2

Comment: AC 120V/60Hz; USB 5V

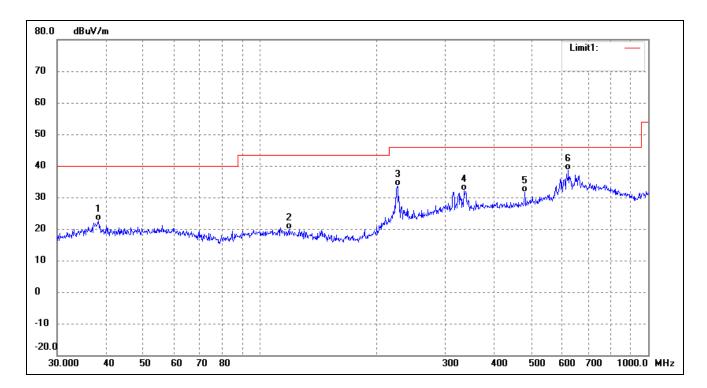
Test Specification: Horizontal



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | () | (cm) | |
| 1 | 51.1209 | 15.35 | 5.01 | 20.36 | 40.00 | -19.64 | 216 | 100 | QP |
| 2 | 84.7019 | 18.68 | 2.50 | 21.18 | 40.00 | -18.82 | 134 | 100 | QP |
| 3 | 132.2206 | 20.47 | 3.80 | 24.27 | 43.50 | -19.23 | 85 | 100 | QP |
| 4 | 226.0994 | 28.99 | 8.05 | 37.04 | 46.00 | -8.96 | 302 | 100 | QP |
| 5 | 400.4319 | 16.99 | 12.67 | 29.66 | 46.00 | -16.34 | 159 | 100 | QP |
| 6 | 627.2738 | 24.22 | 17.61 | 41.83 | 46.00 | -4.17 | 345 | 100 | QP |

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Test Specification: Vertical



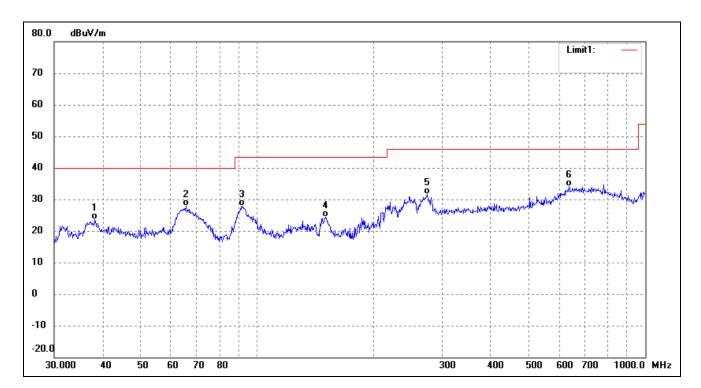
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | () | (cm) | |
| 1 | 38.3462 | 17.99 | 4.68 | 22.67 | 40.00 | -17.33 | 332 | 100 | QP |
| 2 | 118.6014 | 15.13 | 4.82 | 19.95 | 43.50 | -23.55 | 344 | 100 | QP |
| 3 | 226.0994 | 25.62 | 8.05 | 33.67 | 46.00 | -12.33 | 80 | 100 | QP |
| 4 | 334.8589 | 20.58 | 11.51 | 32.09 | 46.00 | -13.91 | 268 | 100 | QP |
| 5 | 480.5276 | 19.16 | 12.58 | 31.74 | 46.00 | -14.26 | 158 | 100 | QP |
| 6 | 622.8900 | 21.08 | 17.47 | 38.55 | 46.00 | -7.45 | 151 | 100 | QP |

Plot of Radiated Emissions Test Data

EUT: 4G Smart Phone

Tested Model: PL4002
Operating Condition: TM3
Comment: DC 3.8V

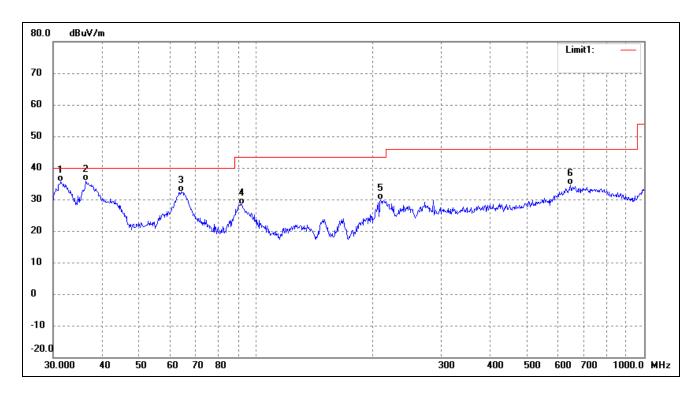
Test Specification: Horizontal



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | () | (cm) | |
| 1 | 38.2120 | 18.93 | 4.66 | 23.59 | 40.00 | -16.41 | 183 | 100 | QP |
| 2 | 65.5727 | 24.08 | 3.85 | 27.93 | 40.00 | -12.07 | 158 | 100 | QP |
| 3 | 91.4949 | 24.16 | 3.64 | 27.80 | 43.50 | -15.70 | 135 | 100 | QP |
| 4 | 150.0108 | 21.57 | 2.75 | 24.32 | 43.50 | -19.18 | 133 | 100 | QP |
| 5 | 274.1939 | 20.98 | 10.72 | 31.70 | 46.00 | -14.30 | 168 | 100 | QP |
| 6 | 636.1340 | 16.24 | 17.93 | 34.17 | 46.00 | -11.83 | 191 | 100 | QP |

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Test Specification: Vertical



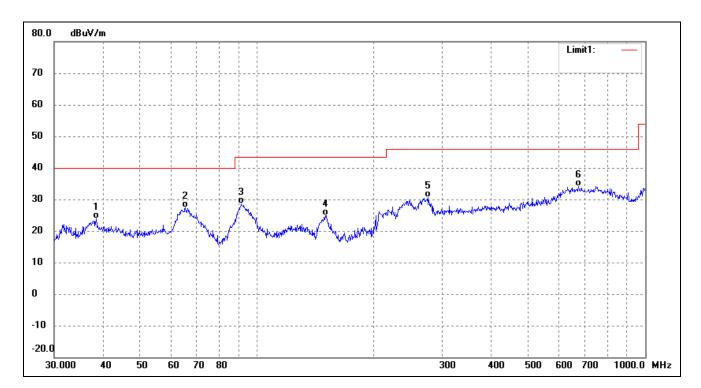
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | () | (cm) | |
| 1 | 31.3992 | 31.93 | 3.58 | 35.51 | 40.00 | -4.49 | 72 | 100 | QP |
| 2 | 36.3814 | 31.57 | 4.40 | 35.97 | 40.00 | -4.03 | 100 | 100 | QP |
| 3 | 63.9828 | 28.15 | 4.21 | 32.36 | 40.00 | -7.64 | 71 | 100 | QP |
| 4 | 91.8163 | 24.76 | 3.69 | 28.45 | 43.50 | -15.05 | 97 | 100 | QP |
| 5 | 209.3129 | 24.43 | 5.38 | 29.81 | 43.50 | -13.69 | 83 | 100 | QP |
| 6 | 645.1195 | 16.78 | 17.94 | 34.72 | 46.00 | -11.28 | 134 | 100 | QP |

Plot of Radiated Emissions Test Data

EUT: 4G Smart Phone

Tested Model: PL4002
Operating Condition: TM4
Comment: DC 3.8V

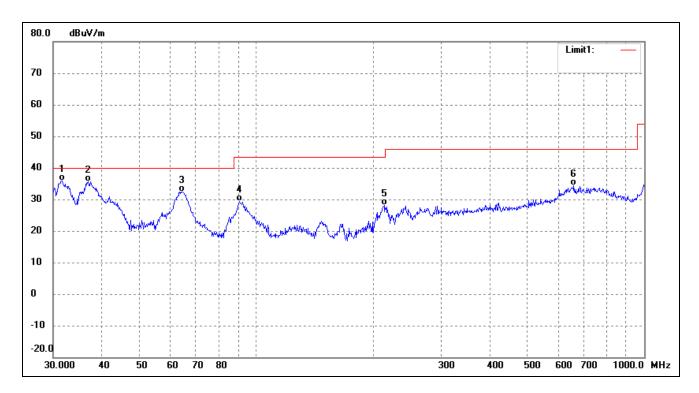
Test Specification: Horizontal



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | () | (cm) | |
| 1 | 38.4809 | 19.16 | 4.70 | 23.86 | 40.00 | -16.14 | 115 | 100 | QP |
| 2 | 65.3432 | 23.58 | 3.90 | 27.48 | 40.00 | -12.52 | 339 | 100 | QP |
| 3 | 91.1746 | 25.05 | 3.60 | 28.65 | 43.50 | -14.85 | 74 | 100 | QP |
| 4 | 150.0108 | 22.04 | 2.75 | 24.79 | 43.50 | -18.71 | 174 | 100 | QP |
| 5 | 275.1570 | 19.89 | 10.79 | 30.68 | 46.00 | -15.32 | 157 | 100 | QP |
| 6 | 672.8444 | 15.94 | 18.29 | 34.23 | 46.00 | -11.77 | 221 | 100 | QP |

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Test Specification: Vertical



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | () | (cm) | |
| 1 | 31.6202 | 32.22 | 3.62 | 35.84 | 40.00 | -4.16 | 131 | 100 | QP |
| 2 | 36.8953 | 31.10 | 4.47 | 35.57 | 40.00 | -4.43 | 333 | 100 | QP |
| 3 | 64.4331 | 28.25 | 4.11 | 32.36 | 40.00 | -7.64 | 58 | 100 | QP |
| 4 | 90.5374 | 25.92 | 3.49 | 29.41 | 43.50 | -14.09 | 283 | 100 | QP |
| 5 | 213.7634 | 21.84 | 6.34 | 28.18 | 43.50 | -15.32 | 265 | 100 | QP |
| 6 | 658.8362 | 16.89 | 17.61 | 34.50 | 46.00 | -11.50 | 300 | 100 | QP |

Note: Testing is carried out with frequency rang 9kHz to the 12.75GHz, which above 1GHz are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

The measurements greater than 20dB below the limit from 9kHz to 30MHz.

***** END OF REPORT *****

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