

CERT #3816.01

Report No.: ZR/2019/B000307

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TEST REPORT

Application No.: ZR/2019/B0003

TCL Communication Ltd Applicant:

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, **Address of Applicant:**

Shatin, NT, Hong Kong

TCL Communication Ltd Manufacturer:

Address of Manufacturer: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park,

Shatin, NT, Hong Kong

EUT Name: LTE/WCDMA/GSM mobile phone

Model No.: 5028D Trade mark: alcatel

47 CFR Part 15, Subpart B Standard(s):

Date of Receipt: 2019-11-12

2019-11-13 to 2019-11-27 **Date of Test:**

Date of Issue: 2019-11-27

Pass* **Test Result:**

Authorized Signature:

Derek Yang Wireless Laboratory Manager

Derale yang



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sgs.china@sgs.com

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



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| Revision Record | | | | | | | |
|-----------------|--------------------------------------|------------|--|----------|--|--|--|
| Version | Version Chapter Date Modifier Remark | | | | | | |
| 01 | | 2019-11-27 | | Original | | | |
| | | | | | | | |
| | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|-----------------------------|------------|
| | Mike Uu | 2019-11-27 |
| | (Mike Hu) /Project Engineer | Date |
| | David Chen | 2019-11-27 |
| | (David Chen) /Reviewer | Date |



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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 3.85V from internal rechargeable battery or from AC/DC adapter Model No.: UC13US |
|---------------|---|
| | AC Input: 100-240V 50/60Hz 0.5A |
| | DC Output: DC 5V 2A |
| Cable: | USB cable: 100cm unshielded |
| | Earphone cable: 115cm unshielded |

| | No. | P/N | Remark | Comment |
|------------|-----|--------------|---------------------------------|--|
| Adaptor | 1 | CBA0059AGAC5 | UC13US; 5.0 V,2000 mA, PUAN; | - |
| | 2 | CBA0059AGAC7 | UC13US; 5.0 V,2000 mA,; | |
| | | | CHENGYANG | |
| LICD coble | 1 | CDA0000024C8 | PUAN | - |
| USB cable | 2 | CDA0000024C2 | JUWEI | - |
| | 1 | CCB0046A10C1 | JUWEI; alcatel Logo | - |
| | 2 | CCB0046A10C4 | MEIHAO; alcatel Logo | - |
| Headset | 3 | CCB0046A15C1 | JUWEI | Same with CCB0046A10C1, only remove alcatel logo |
| | 4 | CCB0046A15C4 | MEIHAO | Same with CCB0046A10C4, only remove alcatel logo |
| Dotton | 1 | CAC3860024C1 | TLp038D7; BYD | - |
| Battery | 2 | CAC3860025C7 | TLp038D7; 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 |



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4.3 Test modes

Pretest these modes to find the worst case and show the worse data in the test items: e: Transfer data between the EUT and the PC+USB cable1

f: Transfer data between the EUT and the PC+USB cable2

g: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card)

+earphone1+battery+Cable(worst)+adapter1

h: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +earphone1+battery+ Cable(worst)+adapter2

i: Telecom Idle+BT+WLAN +GPS Rx+camera (Front) +earphone+battery+ Cable(worst)+ Cable(worst)+adapter(Worst)

j: Telecom Idle+BT+WLAN +GPS Rx+camera (Back) +earphone+battery+Cable(worst)+adapter(Worst)

k: GSM 850+BT+WLAN +GPS Rx+FM+earphone+battery+ Cable(worst)+adapter(Worst)

I: GSM 1900+BT+WLAN +GPS Rx+ FM+earphone+battery+ Cable(worst)+adapter(Worst)

m: WCDMA Band II+BT+WLAN +GPS Rx+ FM+earphone+battery+Cable(worst)+adapter(Worst)

n: WCDMA Band IV+BT+WLAN +GPS Rx+ FM+earphone+battery+ Cable(worst)+adapter(Worst)

o: WCDMA Band V+BT+WLAN +GPS Rx+ FM+earphone+battery+ Cable(worst)+adapter(Worst)

p: LTE band 2+BT+WLAN +GPS Rx+ FM+earphone+battery+ Cable(worst)+adapter(Worst)

q: LTE band 4+BT+WLAN +GPS Rx+ FM+earphone(worst)+battery(worst)+ Cable(worst)+adapter(Worst)

r: LTE band 5+BT+WLAN +GPS Rx+ FM+earphone(worst)+battery(worst)+ Cable(worst)+adapter(Worst)

s: LTE band 7+BT+WLAN +GPS Rx+ FM+earphone(worst)+battery(worst)+ Cable(worst)+adapter(Worst)

t: LTE band 12+BT+WLAN +GPS Rx+ FM+earphone(worst)+battery(worst)+Cable(worst)+adapter(Worst)

u: LTE band 13+BT+WLAN +GPS Rx+ FM+earphone(worst)+battery(worst)+ Cable(worst)+adapter(Worst)

v: LTE band 17+BT+WLAN +GPS Rx+ FM+earphone(worst)+battery(worst)+ Cable(worst)+adapter(Worst)

w: LTE band 66+BT+WLAN +GPS Rx+ FM+earphone(worst)+battery(worst)+ Cable(worst)+adapter(Worst)

4.4 Measurement Uncertainty

| No. | Item | Measurement Uncertainty | | |
|-----|---------------------|---------------------------|--|--|
| 1 | Conduction Emission | ± 3.0dB (150kHz to 30MHz) | | |
| 2 | Dadiated Emission | ± 4.5dB (30MHz-1GHz) | | |
| 2 | Radiated Emission | ± 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:

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 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 | 2019-07-12 | 2020-07-11 | |
| LISN | Rohde & Schwarz | ENV216 | SEM007-01 | 2019-09-25 | 2020-09-24 | |
| LISN | ETS-LINDGREN | 3816/2 | SEM007-02 | 2019-04-02 | 2020-04-01 | |
| EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-02 | 2019-04-02 | 2020-04-01 | |

| Radiated Emissions (30MHz-1GHz) | | | | | | |
|---|-------------------------|-----------------|-----------------|------------|--------------|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | |
| 10m Semi-Anechoic Chamber | SAEMC | FSAC1018 | SEM001-03 | 2019-03-31 | 2021-03-30 | |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM029-01 | 2019-07-12 | 2020-07-11 | |
| EMI Test Receiver (9kHz-7GHz) | Rohde & Schwarz | ESR | SEM004-03 | 2019-04-02 | 2020-04-01 | |
| Trilog-Broadband Antenna(30MHz-1GHz) | Schwarzbeck | VULB9168 | SEM003-18 | 2016-06-29 | 2020-06-28 | |
| Pre-amplifier | Sonoma Instrument Co | 310N | SEM005-04 | 2019-04-13 | 2020-04-12 | |

| 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 | 2019-07-12 | 2020-07-11 | |
| EXA Spectrum Analyzer | AgilentTechnologies Inc | N9010A | SEM004-09 | 2019-04-13 | 2020-04-12 | |
| Horn Antenna(1-18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2019-04-13 | 2021-04-12 | |
| Pre-Amplifier(0.1- 26.5GHz) | Compliance Directions Systems Inc. | PAP-0126 | SEM004-11 | 2019-09-27 | 2020-09-26 | |



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| General used equipmen | t | | | | |
|------------------------------------|---|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2019-09-27 | 2020-09-26 |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2019-09-27 | 2020-09-26 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2019-09-27 | 2020-09-26 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2019-04-08 | 2020-04-07 |



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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(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(μ V) quasi-peak, 50dB(μ V) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.3 °C Humidity: 58.1 % RH Atmospheric Pressure: 1005 mbar

The worst case for final test:

e: Transfer data between the EUT and the PC+USB cable1

g: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card)

+earphone1+battery+Cable1+adapter1

h: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card)

+earphone1+battery+ Cable1+adapter2

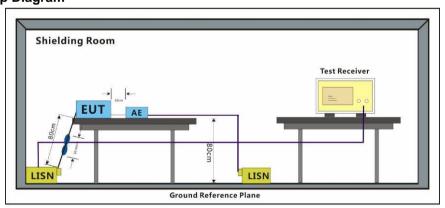
i: Telecom Idle+BT+WLAN +GPS Rx+camera (Front) +earphone+battery+

Cable1+ Cable1+adapter2

j: Telecom Idle+BT+WLAN +GPS Rx+camera (Back) +earphone+battery+

Cable1+adapter2

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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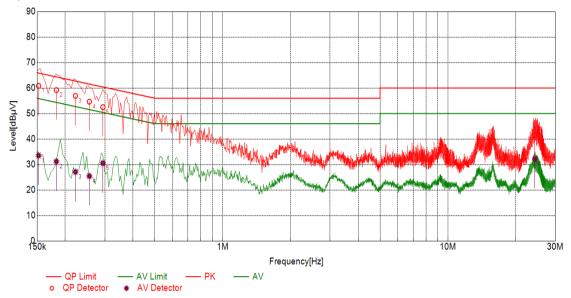
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| Final | Final Data List | | | | | | | | | | | |
|-------|-----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Туре | | | |
| 1 | 0.1524 | 10.10 | 60.85 | 65.87 | 5.02 | 33.51 | 55.87 | 22.36 | L | | | |
| 2 | 0.1827 | 10.10 | 59.18 | 64.36 | 5.18 | 31.19 | 54.36 | 23.17 | L | | | |
| 3 | 0.2221 | 10.10 | 56.93 | 62.74 | 5.81 | 27.08 | 52.74 | 25.66 | L | | | |
| 4 | 0.2560 | 10.10 | 54.66 | 61.56 | 6.90 | 25.45 | 51.56 | 26.11 | Ĺ | | | |
| 5 | 0.2940 | 10.10 | 52.50 | 60.41 | 7.91 | 30.52 | 50.41 | 19.89 | Ĺ | | | |
| 6 | 24.3137 | 10.11 | 41.53 | 60.00 | 18.47 | 32.19 | 50.00 | 17.81 | L | | | |



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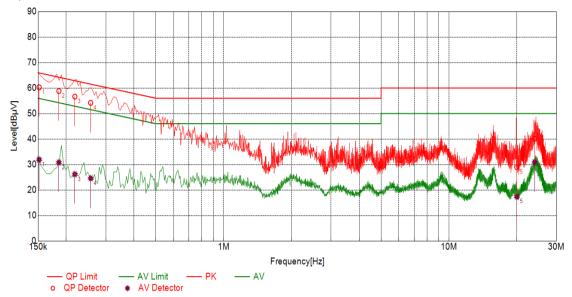
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Mode:e; Line:Neutral Line



| Final | Final Data List | | | | | | | | | | | | |
|-------|-----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|------|--|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Туре | | | | |
| 1 | 0.1517 | 10.10 | 60.29 | 65.91 | 5.62 | 31.90 | 55.91 | 24.01 | Ν | | | | |
| 2 | 0.1856 | 10.10 | 58.81 | 64.23 | 5.42 | 30.80 | 54.23 | 23.43 | Ν | | | | |
| 3 | 0.2185 | 10.10 | 56.64 | 62.87 | 6.23 | 26.17 | 52.87 | 26.70 | N | | | | |
| 4 | 0.2568 | 10.10 | 54.22 | 61.53 | 7.31 | 24.59 | 51.53 | 26.94 | Ν | | | | |
| 5 | 19.9996 | 10.11 | 29.00 | 60.00 | 31.00 | 17.40 | 50.00 | 32.60 | Ν | | | | |
| 6 | 24.0210 | 10.11 | 40.07 | 60.00 | 19.93 | 30.90 | 50.00 | 19.10 | N | | | | |



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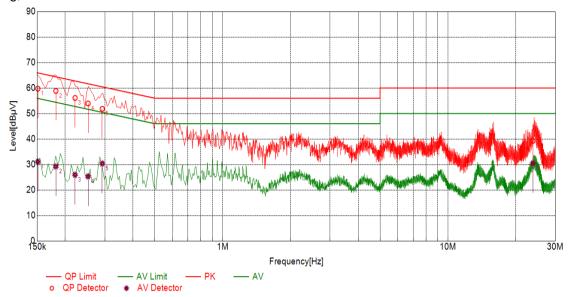
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Mode:g; Line:Live Line



| Final | Final Data List | | | | | | | | | | | | |
|-------|-----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|------|--|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Type | | | | |
| 1 | 0.1512 | 10.10 | 59.76 | 65.93 | 6.17 | 31.05 | 55.93 | 24.88 | L | | | | |
| 2 | 0.1818 | 10.10 | 58.86 | 64.40 | 5.54 | 29.24 | 54.40 | 25.16 | L | | | | |
| 3 | 0.2212 | 10.10 | 56.11 | 62.77 | 6.66 | 25.95 | 52.77 | 26.82 | L | | | | |
| 4 | 0.2527 | 10.10 | 53.95 | 61.67 | 7.72 | 25.34 | 51.67 | 26.33 | L | | | | |
| 5 | 0.2920 | 10.10 | 51.83 | 60.47 | 8.64 | 30.38 | 50.47 | 20.09 | L | | | | |
| 6 | 23.8218 | 10.11 | 39.27 | 60.00 | 20.73 | 30.50 | 50.00 | 19.50 | L | | | | |



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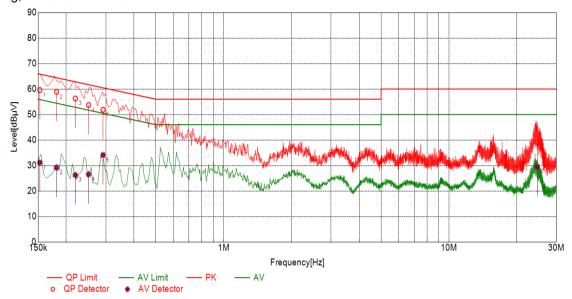
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Mode:g; Line:Neutral Line



| Final | Final Data List | | | | | | | | | | | |
|-------|-----------------|--------|-------|-------|--------|-------|-------|--------|-------|--|--|--|
| NO. | Freq. | Factor | QP | QP | QP | AV | AV | AV | Tyroo | | | |
| NO. | [MHz] | [dB] | Value | Limit | Margin | Value | Limit | Margin | Туре | | | |
| 1 | 0.1528 | 10.10 | 59.62 | 65.85 | 6.23 | 31.16 | 55.85 | 24.69 | N | | | |
| 2 | 0.1812 | 10.10 | 58.89 | 64.43 | 5.54 | 29.21 | 54.43 | 25.22 | N | | | |
| 3 | 0.2196 | 10.10 | 56.28 | 62.83 | 6.55 | 26.23 | 52.83 | 26.60 | N | | | |
| 4 | 0.2515 | 10.10 | 53.70 | 61.71 | 8.01 | 26.56 | 51.71 | 25.15 | N | | | |
| 5 | 0.2915 | 10.10 | 51.84 | 60.48 | 8.64 | 34.08 | 50.48 | 16.40 | N | | | |
| 6 | 24.6808 | 10.11 | 39.11 | 60.00 | 20.89 | 29.49 | 50.00 | 20.51 | N | | | |



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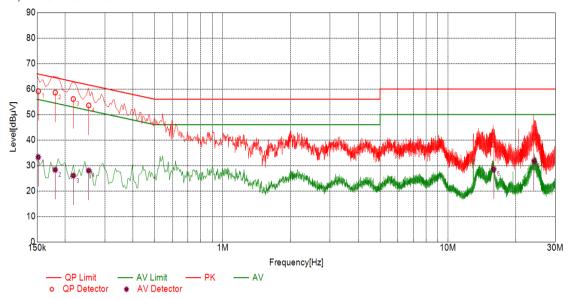
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Mode:h; Line:Live Line



| Fina | Final Data List | | | | | | | | | | | |
|------|-----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Туре | | | |
| 1 | 0.1519 | 10.10 | 59.15 | 65.90 | 6.75 | 33.27 | 55.90 | 22.63 | L | | | |
| 2 | 0.1806 | 10.10 | 58.62 | 64.46 | 5.84 | 28.31 | 54.46 | 26.15 | L | | | |
| 3 | 0.2172 | 10.10 | 56.07 | 62.93 | 6.86 | 26.00 | 52.93 | 26.93 | L | | | |
| 4 | 0.2545 | 10.10 | 53.58 | 61.61 | 8.03 | 27.96 | 51.61 | 23.65 | L | | | |
| 5 | 15.9774 | 10.11 | 38.23 | 60.00 | 21.77 | 28.56 | 50.00 | 21.44 | L | | | |
| 6 | 24.1157 | 10.11 | 41.20 | 60.00 | 18.80 | 31.76 | 50.00 | 18.24 | Ĺ | | | |



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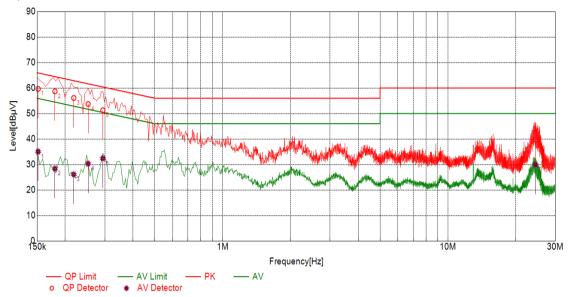
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Mode:h; Line:Neutral Line



| Final | Final Data List | | | | | | | | | | |
|-------|-----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|------|--|--|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Туре | | |
| 1 | 0.1517 | 10.10 | 59.69 | 65.91 | 6.22 | 35.04 | 55.91 | 20.87 | N | | |
| 2 | 0.1801 | 10.10 | 58.69 | 64.48 | 5.79 | 28.37 | 54.48 | 26.11 | N | | |
| 3 | 0.2183 | 10.10 | 56.11 | 62.88 | 6.77 | 26.09 | 52.88 | 26.79 | N | | |
| 4 | 0.2528 | 10.10 | 53.75 | 61.67 | 7.92 | 30.32 | 51.67 | 21.35 | N | | |
| 5 | 0.2938 | 10.10 | 51.27 | 60.42 | 9.15 | 32.37 | 50.42 | 18.05 | N | | |
| 6 | 24.491 | 10.11 | 39.70 | 60.00 | 20.30 | 29.97 | 50.00 | 20.03 | N | | |



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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:

30 MHz - 88 MHz $40.0 (\text{dB}\mu\text{V/m})$ quasi-peak 88 MHz - 216 MHz $43.5 (\text{dB}\mu\text{V/m})$ quasi-peak 216 MHz - 960 MHz $46.0 (\text{dB}\mu\text{V/m})$ quasi-peak 960 MHz - 1000 MHz $54.0 (\text{dB}\mu\text{V/m})$ quasi-peak

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

6.2.1 E.U.T. Operation

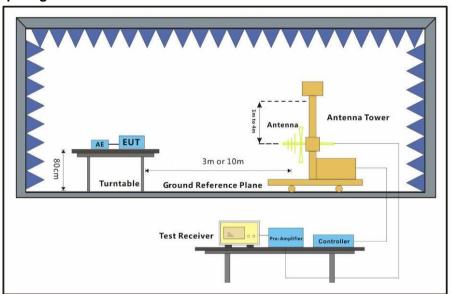
Operating Environment:

Temperature: 25.4 °C Humidity: 51 % RH Atmospheric Pressure: 1005 mbar

The worst case f: Transfer data between the EUT and the PC+USB cable2 for final test: h: Telecom Idle+BT+WLAN +GPS Rx+playing MP4 (SD card)

+earphone1+battery+ Cable1+adapter2

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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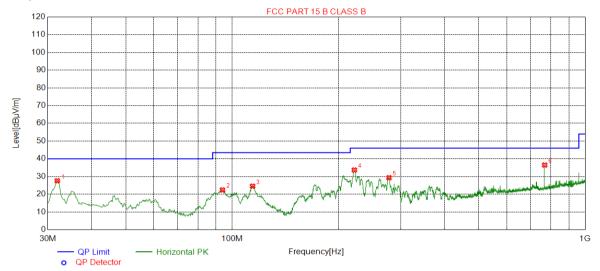
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Mode:f; Polarization:Horizontal



| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1 | 31.9404 | 27.59 | -30.03 | 40.00 | 12.41 | 100 | 329 | Horizontal |
| 2 | 93.8388 | 22.42 | -33.08 | 43.50 | 21.08 | 200 | 267 | Horizontal |
| 3 | 114.2128 | 24.55 | -32.66 | 43.50 | 18.95 | 200 | 240 | Horizontal |
| 4 | 221.9044 | 33.66 | -30.65 | 46.00 | 12.34 | 100 | 223 | Horizontal |
| 5 | 278.1756 | 29.33 | -29.02 | 46.00 | 16.67 | 100 | 77 | Horizontal |
| 6 | 768.1236 | 36.47 | -18.13 | 46.00 | 9.53 | 100 | 329 | Horizontal |



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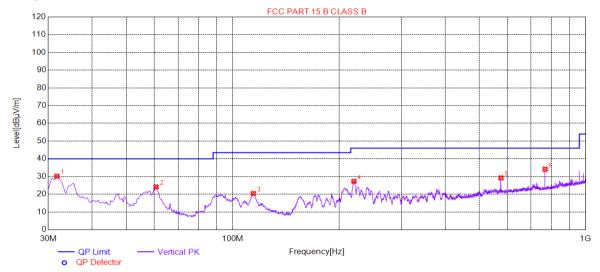
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Mode:f; Polarization:Vertical



| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1 | 31.7463 | 30.15 | -30.04 | 40.00 | 9.85 | 100 | 343 | Vertical |
| 2 | 60.6581 | 24.16 | -32.03 | 40.00 | 15.84 | 100 | 323 | Vertical |
| 3 | 114.4069 | 20.40 | -32.69 | 43.50 | 23.10 | 100 | 191 | Vertical |
| 4 | 220.5461 | 27.25 | -30.69 | 46.00 | 18.75 | 200 | 200 | Vertical |
| 5 | 576.0252 | 29.23 | -21.31 | 46.00 | 16.77 | 100 | 346 | Vertical |
| 6 | 768.1236 | 34.11 | -18.13 | 46.00 | 11.89 | 100 | 223 | Vertical |



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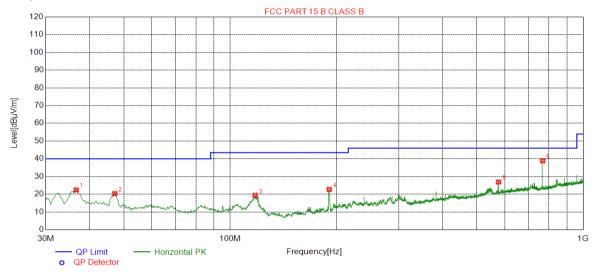
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Mode:h; Polarization:Horizontal



| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1 | 36.5973 | 22.38 | -29.44 | 40.00 | 17.62 | 200 | 14 | Horizontal |
| 2 | 47.0754 | 20.35 | -30.40 | 40.00 | 19.65 | 200 | 346 | Horizontal |
| 3 | 117.7055 | 19.35 | -33.21 | 43.50 | 24.15 | 200 | 247 | Horizontal |
| 4 | 190.8582 | 22.70 | -32.16 | 43.50 | 20.80 | 100 | 89 | Horizontal |
| 5 | 576.0252 | 26.89 | -21.31 | 46.00 | 19.11 | 200 | 122 | Horizontal |
| 6 | 768.1236 | 38.85 | -18.13 | 46.00 | 7.15 | 100 | 326 | Horizontal |



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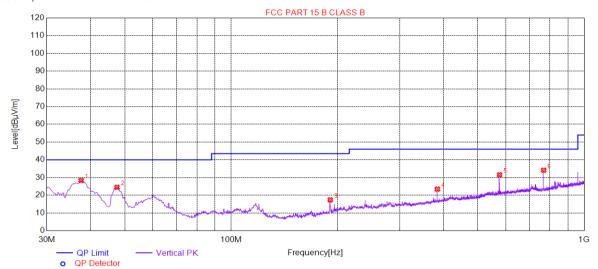
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Mode:h; Polarization:Vertical



| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1 | 37.5675 | 28.36 | -29.13 | 40.00 | 11.64 | 100 | 317 | Vertical |
| 2 | 47.4635 | 24.49 | -30.40 | 40.00 | 15.51 | 100 | 346 | Vertical |
| 3 | 190.8582 | 17.40 | -32.16 | 43.50 | 26.10 | 100 | 43 | Vertical |
| 4 | 383.9268 | 23.45 | -25.95 | 46.00 | 22.55 | 100 | 279 | Vertical |
| 5 | 576.0252 | 31.54 | -21.31 | 46.00 | 14.46 | 100 | 2 | Vertical |
| 6 | 768.1236 | 34.13 | -18.13 | 46.00 | 11.87 | 100 | 60 | Vertical |



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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(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:

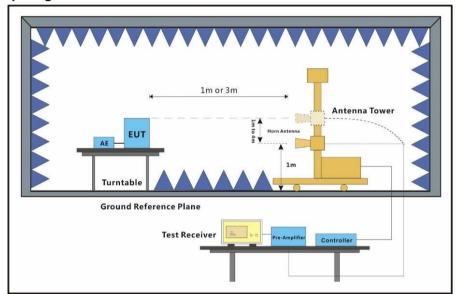
Temperature: 23.3 °C Humidity: 56.2 % RH Atmospheric Pressure: 1005 mbar

The worst case e: Transfer data between the EUT and the PC+USB cable1

for final test: j: Telecom Idle+BT+WLAN +GPS Rx+camera (Back) +earphone+battery+

Cable1+adapter2

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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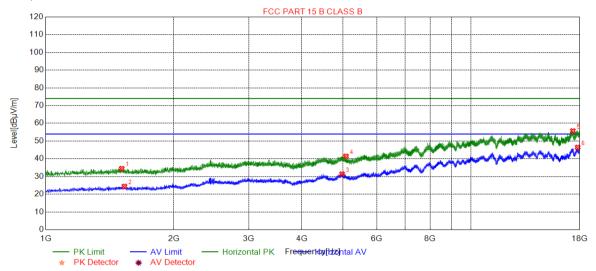
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Mode:e; Polarization:Horizontal



| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1 | 1509.1755 | 34.48 | -29.95 | 74.00 | 39.52 | 100 | 19 | Horizontal |
| 2 | 1531.2766 | 24.47 | -30.06 | 54.00 | 29.53 | 100 | 68 | Horizontal |
| 3 | 4972.2486 | 31.38 | -18.65 | 54.00 | 22.62 | 100 | 136 | Horizontal |
| 4 | 5078.5039 | 41.45 | -19.16 | 74.00 | 32.55 | 100 | 326 | Horizontal |
| 5 | 17335.2668 | 55.73 | -1.58 | 74.00 | 18.27 | 100 | 19 | Horizontal |
| 6 | 17792.5896 | 46.46 | -1.67 | 54.00 | 7.54 | 100 | 189 | Horizontal |



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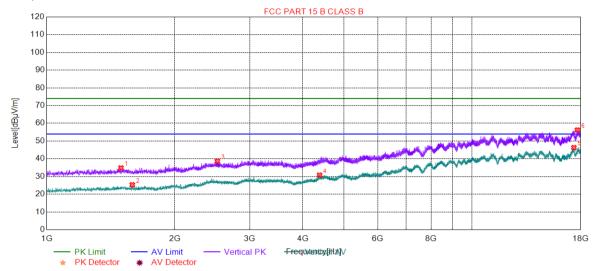
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Mode:e; Polarization:Vertical



| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1 | 1494.7247 | 34.86 | -29.94 | 74.00 | 39.14 | 100 | 227 | Vertical |
| 2 | 1589.0795 | 25.34 | -30.35 | 54.00 | 28.66 | 100 | 341 | Vertical |
| 3 | 2518.1759 | 38.66 | -25.89 | 74.00 | 35.34 | 100 | 227 | Vertical |
| 4 | 4378.0689 | 30.81 | -21.20 | 54.00 | 23.19 | 100 | 64 | Vertical |
| 5 | 17337.8169 | 46.32 | -1.58 | 54.00 | 7.68 | 100 | 123 | Vertical |
| 6 | 17671.8836 | 56.25 | -1.01 | 74.00 | 17.75 | 100 | 173 | Vertical |



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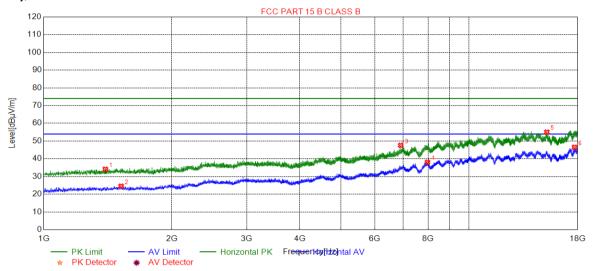
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Mode:j; Polarization:Horizontal



| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1 | 1396.1198 | 34.13 | -30.56 | 74.00 | 39.87 | 100 | 350 | Horizontal |
| 2 | 1520.2260 | 24.54 | -30.01 | 54.00 | 29.46 | 100 | 80 | Horizontal |
| 3 | 6905.2453 | 47.61 | -13.02 | 74.00 | 26.39 | 100 | 290 | Horizontal |
| 4 | 7978.8489 | 38.03 | -10.03 | 54.00 | 15.97 | 100 | 182 | Horizontal |
| 5 | 15222.9111 | 55.05 | 0.25 | 74.00 | 18.95 | 100 | 350 | Horizontal |
| 6 | 17681.2341 | 46.53 | -0.93 | 54.00 | 7.47 | 100 | 29 | Horizontal |



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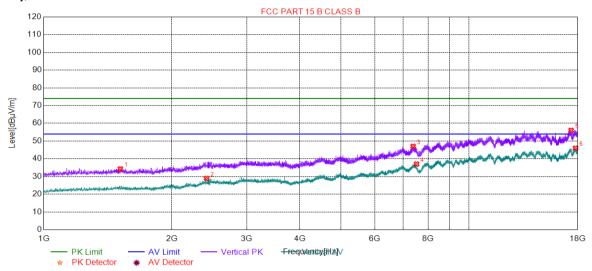
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Mode:j; Polarization:Vertical



| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1 | 1514.2757 | 34.31 | -29.98 | 74.00 | 39.69 | 100 | 271 | Vertical |
| 2 | 2413.6207 | 28.94 | -25.99 | 54.00 | 25.06 | 100 | 80 | Vertical |
| 3 | 7382.9691 | 47.06 | -12.00 | 74.00 | 26.94 | 100 | 24 | Vertical |
| 4 | 7518.9759 | 37.02 | -12.26 | 54.00 | 16.98 | 100 | 222 | Vertical |
| 5 | 17357.3679 | 56.07 | -1.65 | 74.00 | 17.93 | 100 | 24 | Vertical |
| 6 | 17779.8390 | 45.99 | -1.55 | 54.00 | 8.01 | 100 | 80 | Vertical |



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Photographs 7

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







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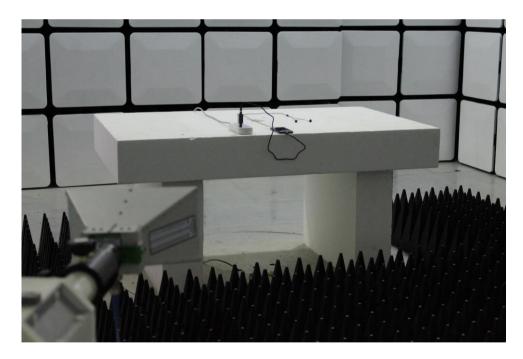


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7.2 Radiated Emissions (30MHz-1GHz) Test Setup





7.3 EUT Constructional Details (EUT Photos)

Please refer to internal and external photo.

- End of the Report -



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