

FCC TEST REPORT

Product Name: Mobile Phone

Trade Mark: BOLD, BLU

Model No.: N1

Add. Model No.: N/A

Report Number: 190510013RFM-1

Test Standards: FCC 47 CFR Part 22 Subpart H

FCC 47 CFR Part 24 Subpart E

FCC 47 CFR Part 27 FCC 47 CFR Part 2

FCC ID: YHLBOLDN1

Test Result: PASS

Date of Issue: July 9, 2019

Prepared for:

BLU Products, Inc 10814 NW 33rd St # 100 Doral, FL 33172, USA

Prepared by:

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| Approved by: | *Cerrent Director | Date: | July 9, 2019 |



Version

| Version No. | Date | Description |
|-------------|--------------|-------------|
| V1.0 | July 9, 2019 | Original |





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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

| Applicant: | BLU Products, Inc |
|--------------------------|---|
| Address of Applicant: | 10814 NW 33rd St # 100 Doral, FL 33172, USA |
| Manufacturer: | BLU Products, Inc |
| Address of Manufacturer: | 10814 NW 33rd St # 100 Doral, FL 33172, USA |

1.2 EUT INFORMATION

1.2.1 General Description of EUT

| 2.1 General Description of Lot | | | | |
|------------------------------------|---|------------------|--|--|
| Product Name: | Mobile Phone | | | |
| Model No.: | N1 | | | |
| Add. Model No.: | N/A | | | |
| Trade Mark: | BOLD, BLU | | | |
| DUT Stage: | Identical Prototype | | | |
| | GSM Bands: | GSM850/1900 | | |
| | UTRA Bands: Band II/ Band IV/ Band V | | | |
| EUT Supports Function: | E-UTRA Bands: FDD Band 2/ Band 4/ Band 5/ Band 7/ Band 12/ Band 13/ Band 17 | | | |
| | 2.4 GHz ISM Band: | IEEE 802.11b/g/n | | |
| | | Bluetooth V4.2 | | |
| Sample Received Date: May 10, 2019 | | | | |
| Sample Tested Date: | Sample Tested Date: May 10, 2019 to July 7, 2019 | | | |
| | | | | |

1.2.2 Description of Accessories

| Adapter | | | | |
|------------|-----------------------------------|--|--|--|
| Model No.: | US-KB-2000 | | | |
| Input: | 100-240 V~50/60 Hz 0.6 A | | | |
| Output: | 3.6-6 V~3A, 6-9 V~2A, 9-12 V~1.5A | | | |

| Battery | | | | |
|-------------------------|----------------------------------|--|--|--|
| Model No.: | C736048350L | | | |
| Battery Type: | Lithium-ion Rechargeable Battery | | | |
| Rated Voltage: | 3.8 Vdc | | | |
| Limited Charge Voltage: | 4.35 Vdc | | | |
| Rated Capacity: | 3400 mAh | | | |

| Cable | | | |
|--------------|----------------------------|--|--|
| Description: | USB Type-C Plug Cable | | |
| Cable Type: | Unshielded without ferrite | | |
| Length: | 1.00 Meter | | |

| Earphone | | |
|-------------|------------|--|
| Cable Type: | Unshielded | |
| Length: | 1.20 Meter | |



1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

| cupport Networks: GSM, GPRS, EDGE, WCDMA, HSDPA, HSUPA, LTE | | | | |
|---|--------------------------------|----------|--------------------|--|
| | GSM/GPRS: | | GMSK | |
| | EDGE: | | GMSK, 8PSK | |
| Time of Unlink Madulation. | WCDMA | | QPSK | |
| Type of Uplink Modulation: | HSDPA | HSDPA | | |
| | HSUPA: | | QPSK | |
| | LTE | | QPSK, 16QAM, 64QAM | |
| | GSM/GPRS/EDGE 850: | | 824.2-848.8 MHz | |
| | GSM/GPRS/EDGE 1900: | | 1850.2-1909.8 MHz | |
| Eroguenov Bongo | WCDMA Band II: | | 1852.4-1907.6 MHz | |
| Frequency Range: | WCDMA Band IV: | | 1712.4-1752.6 MHz | |
| | WCDMA Band V: | | 826.4-846.6 MHz | |
| | LTE | | See Note 1 | |
| | GSM/GPRS 850: | | 33.07dBm | |
| | EDGE 850: | | 27.92dBm | |
| | GSM/GPRS 1900: | | 29.99dBm | |
| Mary DE Outroot Barrers | EDGE 1900: | | | |
| Max RF Output Power: | WCDMA Band II: | | 22.96dBm | |
| | WCDMA Band IV: | | 23.75dBm | |
| | WCDMA Band V: | | 22.80dBm | |
| | LTE | | See Note 1 | |
| | GSM/GPRS 850: | | 247KGXW | |
| | EDGE 850: | | 252KG7W | |
| | GSM/GPRS 1900: | | 245KGXW | |
| Time of Emileology | EDGE 1900: | | 247KG7W | |
| Type of Emission: | WCDMA Band II: | | 4M16F9W | |
| | WCDMA Band IV: | | 4M17F9W | |
| | WCDMA Band V: | | 4M18F9W | |
| | LTE | | See Note 1 | |
| IFAAL. | Radiation: 866757040359257, 86 | 66757040 | 359265 | |
| IEMI: | Conducted: 869899031635142, 8 | 86989903 | 1635142 | |
| Antenna Type: | Integral Antenna | | | |
| | GSM 850: -0.7 d | | Bi | |
| | GSM 1900: | 1.1 dB | i | |
| | WCDMA Band II: | 1.0 dB | i | |
| | WCDMA Band IV: | 0.8 dB | i | |
| | WCDMA Band V: | -0.8 dl | Bi | |
| Antonna Caini | LTE Band 2: 1.5 dB | | Bi | |
| Antenna Gain: | LTE Band 4: | 1.0 dB | | |
| | LTE Band 5: | 0.8 dB | | |
| | LTE Band 7: | -0.8 dl | | |
| | LTE Band 12: -2.8 d | | | |
| | LTE Band 13: -2.7 d | | | |
| | LTE Band 17: -3.1 dB | | | |
| Normal Test Voltage: 3.8 Vdc | | | | |



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| Extreme Test Voltage: | 3.6 Vdc to 4.4 Vdc |
|---------------------------|--------------------|
| Extreme Test Temperature: | -10 °C to +55 °C |

Note 1:

| Summary of Results: | | | | | | | |
|---------------------|-------------|-----------------------------|---------------------------|-----------------------|------------------|---------|---------|
| Band | BW (MHz) | Frequency Range (MHz) | Max RF Output Power (dBm) | | Type of Emission | | |
| Ballu | | | Conducted (Average) | ERP/EIRP (Average) | QPSK | 16QAM | 64QAM |
| | 1.4 | 1850.7-1909.3 | 22.80 | 24.30 | 1M10G7D | 1M10W7D | 1M10D7W |
| | 3 | 1851.5-1908.5 | 22.77 | 24.27 | 2M69G7D | 2M69W7D | 2M69D7W |
| LTE | 5 | 1852.5-1907.5 | 22.78 | 24.28 | 4M47G7D | 4M48W7D | 4M53D7W |
| Band 2 | 10 | 1855.0-1905.0 | 22.78 | 24.28 | 8M93G7D | 9M92W7D | 9M04D7W |
| | 15 | 1857.5-1902.5 | 22.80 | 24.30 | 13M4G7D | 13M4W7D | 13M5D7W |
| | 20 | 1860.0-1900.0 | 22.84 | 24.34 | 18M2G7D | 18M0W7D | 18M0D7W |
| | 1.4 | 1710.7-1754.3 | 22.76 | 23.76 | 1M09G7W | 1M09D7W | 1M10D7W |
| | 3 | 1711.5-1753.5 | 22.77 | 23.77 | 2M68G7W | 2M68D7W | 2M69D7W |
| LTE | 5 | 1712.5-1752.5 | 22.78 | 23.78 | 4M47G7W | 4M47D7W | 4M52D7W |
| Band 4 | 10 | 1715-1750 | 22.76 | 23.76 | 8M92G7W | 8M92D7W | 9M04D7W |
| | 15 | 1717.5-1747.5 | 22.73 | 23.73 | 13M5G7W | 13M5D7W | 13M5D7W |
| | 20 | 1720-1745 | 22.79 | 23.79 | 18M0G7W | 18M0D7W | 18M0D7W |
| | 1.4 | 824.7-848.3 | 24.03 | 22.68 | 1M11G7D | 1M11W7D | 1M10D7W |
| LTE | 3 | 825.5-847.5 | 23.91 | 22.56 | 2M71G7D | 2M71W7D | 2M69D7W |
| Band 5 | 5 | 826.5-846.5 | 23.90 | 22.55 | 4M54G7D | 4M54W7D | 4M53D7W |
| | 10 | 829-844 | 23.99 | 22.64 | 9M04G7D | 9M03W7D | 9M03D7W |
| | 5 | 2502.5-2567.5 | 20.19 | 19.39 | 4M54G7W | 4M54D7W | 4M51D7W |
| LTE | 10 | 2505-2565 | 20.30 | 19.50 | 9M03G7W | 9M03D7W | 9M01D7W |
| Band 7 | 15 | 2507.5-2562.5 | 20.19 | 19.39 | 13M5G7W | 13M5D7W | 13M5D7W |
| | 20 | 2510-2560 | 20.37 | 19.57 | 18M0G7W | 18M1D7W | 18M2D7W |
| | 1.4 | 699.7-715.3 | 23.92 | 18.97 | 1M10G7W | 1M10D7W | 1M10D7W |
| LTE | 3 | 700.5-714.5 | 23.69 | 18.74 | 2M70G7W | 2M70D7W | 2M70D7W |
| Band 12 | 5 | 701.5-713.5 | 23.76 | 18.81 | 4M55G7W | 4M54D7W | 4M51D7W |
| | 10 | 704-711 | 23.79 | 18.84 | 9M03G7W | 9M03D7W | 9M08D7W |
| LTE | 5 | 779.5-784.5 | 23.66 | 18.81 | 4M51G7W | 4M51D7W | 4M52D7W |
| Band 13 | 10 | 782-782 | 23.54 | 18.69 | 8M94G7W | 8M94D7W | 8M95D7W |
| LTE | 5 | 706.5-713.5 | 23.83 | 18.58 | 4M52G7W | 4M52D7W | 4M51D7W |
| Band 17 | 10 | 709-711 | 23.86 | 18.61 | 9M03G7W | 9M03D7W | 9M05D7W |

1.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested independently



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1.5 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua

New District, Shenzhen, China 518109 Telephone: +86 (0) 755 2823 0888 Fax: +86 (0) 755 2823 0886

1.6 TEST FACILITY

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

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.7 DEVIATION FROM STANDARDS

None.

1.8 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

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1.10MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| No. | ltem | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Conducted emission 9KHz-150KHz | ±3.8 dB |
| 2 | Conducted emission 150KHz-30MHz | ±3.4 dB |
| 3 | Radiated emission 9KHz-30MHz | ±4.9 dB |
| 4 | Radiated emission 30MHz-1GHz | ±4.7 dB |
| 5 | Radiated emission 1GHz-18GHz | ±5.1 dB |
| 6 | Radiated emission 18GHz-26GHz | ±5.2 dB |
| 7 | Radiated emission 26GHz-40GHz | ±5.2 dB |





2. TEST SUMMARY

| FCC 47 CFR P | art 22 Subpart H Test Cases (GSM 850 | 0/WCDMA Band V/LTE Band | 5) | |
|---|--------------------------------------|-------------------------|--------|--|
| Test Item | Test Requirement | Test Method | Result | |
| Effective Radiated FCC 47 CFR Part 2.1046(a | | ANSI/TIA-603-E-2016 & | PASS | |
| Power (ERP) | FCC 47 CFR Part 22.913(a) | KDB 971168 D01v03r01 | | |
| Conducted Output | FCC 47 CFR Part 2.1046(a) & | ANSI/TIA-603-E-2016 & | PASS | |
| Power | FCC 47 CFR Part 22.913(a) | KDB 971168 D01v03r01 | 17100 | |
| Peak-to-average ratio | FCC 47 CFR Part 22.913(a) | ANSI/TIA-603-E-2016 & | PASS | |
| Tour to avorage ratio | 1 00 11 01 11 an 2210 10(a) | KDB 971168 D01v03r01 | 17.00 | |
| 99%&26dB Bandwidth | FCC 47 CFR Part 2.1049(h) | ANSI/TIA-603-E-2016 & | PASS | |
| 007002002 201101110111 | | KDB 971168 D01v03r01 | 17100 | |
| Band Edge at antenna | FCC 47 CFR Part 2.1051 & | ANSI/TIA-603-E-2016 & | PASS | |
| terminals | FCC 47 CFR Part 22.917(a) | KDB 971168 D01v03r01 | 17100 | |
| Spurious emissions at | FCC 47 CFR Part 2.1051 & | ANSI/TIA-603-E-2016 & | PASS | |
| antenna terminals | FCC 47 CFR Part 22.917(a)(b) | KDB 971168 D01v03r01 | PASS | |
| Field strength of | FCC 47 CFR Part 2.1053 & | ANSI/TIA-603-E-2016 & | PASS | |
| spurious radiation | FCC 47 CFR Part 22.917(a)(b) | KDB 971168 D01v03r01 | FASS | |
| Frequency stability | FCC 47 CFR Part 2.1055 & | ANSI/TIA-603-E-2016 & | PASS | |
| Frequency Stability | FCC 47 CFR Part 22.355 | KDB 971168 D01v03r01 | FASS | |

| _ | | | | | |
|---|-----------------------|---|--------------------------|--------|--|
| | FCC 47 CFR Pa | art 24 Subpart E Test Cases (GSM 190 | 0/WCDMA Band II/LTE Band | 2) | |
| 1 | Test Item | Test Requirement | Test Method | Result | |
| | Equivalent Isotropic | FCC 47 CFR Part 2.1046(a) & | ANSI/TIA-603-E-2016 & | PASS | |
| | Radiated Power (EIRP) | FCC 47 CFR Part 24.232(c) | KDB 971168 D01v03r01 | 17.00 | |
| | Conducted Output | FCC 47 CFR Part 2.1046(a) & | ANSI/TIA-603-E-2016 & | PASS | |
| | Power | FCC 47 CFR Part 24.232(c) | KDB 971168 D01v03r01 | FAGG | |
| | Peak-to-average ratio | Peak-to-average ratio FCC 47 CFR Part 24.232(d) | | PASS | |
| | 99%&26dB Bandwidth | FCC 47 CFR Part 2.1049(h) & | ANSI/TIA-603-E-2016 & | PASS | |
| | 99%&200B Bandwidth | FCC 47 CFR Part 24.238(b) | KDB 971168 D01v03r01 | FA33 | |
| | Band Edge at antenna | FCC 47 CFR Part 2.1051 & | ANSI/TIA-603-E-2016 & | PASS | |
| | terminals | FCC 47 CFR Part 24.238(a) | KDB 971168 D01v03r01 | PASS | |
| | Spurious emissions at | FCC 47 CFR Part 2.1051 & | ANSI/TIA-603-E-2016 & | PASS | |
| N | antenna terminals | FCC 47 CFR Part 24.238(a)(b) | KDB 971168 D01v03r01 | 1 700 | |
| N | Field strength of | FCC 47 CFR Part 2.1053 & | ANSI/TIA-603-E-2016 & | PASS | |
| | spurious radiation | FCC 47 CFR Part 24.238(a)(b) | KDB 971168 D01v03r01 | FASS | |
| | Frequency stability | FCC 47 CFR Part 2.1055 & | ANSI/TIA-603-E-2016 & | PASS | |
| | Frequency Stability | FCC 47 CFR Part 24.235 | KDB 971168 D01v03r01 | FASS | |



| FCC | 47 CFR Part 27 Test Cases (WCDMA | Band IV/LTE Band 4) | | |
|-----------------------|----------------------------------|-----------------------|--------|--|
| Test Item | Test Requirement | Test Method | Result | |
| Equivalent Isotropic | FCC 47 CFR Part 2.1046(a) & | ANSI/TIA-603-E-2016 & | PASS | |
| Radiated Power (EIRP) | FCC 47 CFR Part 27.50(d)(4) | KDB 971168 D01v03r01 | 1 700 | |
| Conducted Output | FCC 47 CFR Part 2.1046(a) & | ANSI/TIA-603-E-2016 & | PASS | |
| Power | FCC 47 CFR Part 27.50(d)(4) | KDB 971168 D01v03r01 | PAGG | |
| Peak-to-average ratio | FCC 47 CFR Part 27.50(d)(5) | KDB 971168 D01v03r01 | PASS | |
| 000/ 9 26dB Bandwidth | FCC 47 CFR Part 2.1049(h) | ANSI/TIA-603-E-2016 & | PASS | |
| 99%&26dB Bandwidth | FCC 47 CFR Part 27.53(h) | KDB 971168 D01v03r01 | PASS | |
| Band Edge at antenna | FCC 47 CFR Part 27.53(h)(1) | ANSI/TIA-603-E-2016 & | PASS | |
| terminals | FGG 47 GFK Falt 27.33(II)(1) | KDB 971168 D01v03r01 | PASS | |
| Spurious emissions at | FCC 47 CFR Part 2.1051 & | ANSI/TIA-603-E-2016 & | PASS | |
| antenna terminals | FCC 47 CFR Part 27.53(h) | KDB 971168 D01v03r01 | PAGG | |
| Field strength of | FCC 47 CFR Part 2.1053 & | ANSI/TIA-603-E-2016 & | PASS | |
| spurious radiation | FCC 47 CFR Part 27.53(h) | KDB 971168 D01v03r01 | FASS | |
| Frequency stability | FCC 47 CFR Part 2.1055 & | ANSI/TIA-603-E-2016 & | DASS | |
| Frequency stability | FCC 47 CFR Part 27.54 | KDB 971168 D01v03r01 | PASS | |

| | FCC 47 CFR Part 27 Test Cases (L | TE Band 13) | |
|---|--|---|--------|
| Test Item | Test Requirement | Test Method | Result |
| Effective Radiated FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(b)(10) | | ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01 | PASS |
| Conducted Output FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(b)(10) | | ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01 | PASS |
| Peak-to-average ratio | FCC 47 CFR Part 27.50(d)(5) | KDB 971168 D01v03r01 | PASS |
| 99%&26dB Bandwidth | FCC 47 CFR Part 2.1049(h) | ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01 | PASS |
| Band Edge at antenna terminals | FCC 47 CFR Part 27.53(c)(2) | ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01 | PASS |
| Spurious emissions at antenna terminals | | | PASS |
| Field strength of spurious radiation | FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(c)(2) | ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01 | PASS |
| Frequency stability | FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54 | ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01 | PASS |

| F | FCC 47 CFR Part 27 Test Cases (LTE Band 12/Band 17) | | | | |
|---|---|---|--------|--|--|
| Test Item | Test Requirement | Test Method | Result | | |
| Effective Radiated Power (ERP) | FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(c)(10) | ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01 | PASS | | |
| Conducted Output FCC 47 CFR Part 2.1046(a) & FCC Power 47 CFR Part 27.50(c)(10) | | ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01 | PASS | | |
| Peak-to-average ratio | FCC 47 CFR Part 27.50(d)(5) | KDB 971168 D01v03r01 | PASS | | |
| 99%&26dB Bandwidth | FCC 47 CFR Part 2.1049(h) FCC 47 CFR Part 27.53(g) | ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01 | PASS | | |
| Band Edge at antenna terminals | FCC 47 CFR Part 27.53(g) | ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01 | PASS | | |
| Spurious emissions at antenna terminals | | | PASS | | |
| Field strength of spurious radiation | FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(g) | ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01 | PASS | | |
| Frequency stability | FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54 | ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01 | PASS | | |

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| | FCC 47 CFR Part 27 Test Cases (| LTE Band 7) | | |
|------------------------|---------------------------------|-----------------------|--------|--|
| Test Item | Test Requirement | Test Method | Result | |
| Equivalent Isotropic | FCC 47 CFR Part 2.1046(a) & | ANSI/TIA-603-E-2016 & | PASS | |
| Radiated Power (EIRP) | FCC 47 CFR Part 27.50(h)(2) | KDB 971168 D01v03r01 | 17100 | |
| Conducted Output | FCC 47 CFR Part 2.1046(a) & | ANSI/TIA-603-E-2016 & | PASS | |
| Power | FCC 47 CFR Part 27.50(h)(2) | KDB 971168 D01v03r01 | 1700 | |
| Peak-to-average ratio | FCC 47 CFR Part 27.50(d)(5) | KDB 971168 D01v03r01 | PASS | |
| 99%&26dB Bandwidth | FCC 47 CFR Part 2.1049(h) | ANSI/TIA-603-E-2016 & | PASS | |
| 99 /8&200B Ballawidtii | 1 00 47 Of ICT art 2.1049(II) | KDB 971168 D01v03r01 | FAGG | |
| Band Edge at antenna | FCC 47 CFR Part 27.53(m)(4) | ANSI/TIA-603-E-2016 & | PASS | |
| terminals | 1 00 47 01 1(1 alt 27:00(m)(4) | KDB 971168 D01v03r01 | 1 700 | |
| Spurious emissions at | FCC 47 CFR Part 2.1051 & | ANSI/TIA-603-E-2016 & | PASS | |
| antenna terminals | FCC 47 CFR Part 27.53(m)(4) | KDB 971168 D01v03r01 | 1700 | |
| Field strength of | FCC 47 CFR Part 2.1053 & | ANSI/TIA-603-E-2016 & | PASS | |
| spurious radiation | FCC 47 CFR Part 27.53(m)(4) | KDB 971168 D01v03r01 | FASS | |
| Frequency stability | FCC 47 CFR Part 2.1055 & | ANSI/TIA-603-E-2016 & | PASS | |
| r requericy stability | FCC 47 CFR Part 27.54 | KDB 971168 D01v03r01 | 1 700 | |



3. EQUIPMENT LIST

| | Radiated Emission Test Equipment List | | | | | |
|-------------|---|---------------|----------------|------------------|----------------------------|--------------------------------|
| Used | Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm dd, yyyy) | Cal. Due date (mm dd, yyyy) |
| | 3M Chamber & Accessory Equipment | ETS-LINDGREN | 3M | N/A | Dec. 03, 2018 | Dec. 03, 2021 |
| \boxtimes | Receiver | R&S | ESIB26 | 100114 | Nov. 24, 2018 | Nov. 24, 2019 |
| \boxtimes | Loop Antenna | ETS-LINDGREN | 6502 | 00202525 | Dec. 03, 2018 | Dec. 03, 2019 |
| \boxtimes | Broadband Antenna | ETS-LINDGREN | 3142E | 00201566 | Dec. 08, 2018 | Dec. 08, 2019 |
| | 6dB Attenuator | Talent | RA6A5-N- 18 | 18103001 | Dec. 08, 2018 | Dec. 08, 2019 |
| \boxtimes | Preamplifier | HP | 8447F | 2805A02960 | Nov. 24, 2018 | Nov. 24, 2019 |
| \boxtimes | Horn Antenna | ETS-LINDGREN | 3117 | 00164202 | Dec. 08, 2018 | Dec. 08, 2019 |
| | Horn Antenna (Pre-amplifier) | ETS-LINDGREN | 3116C-PA | 00202652 | Jan. 05, 2019 | Jan. 05, 2020 |
| | Wideband Radio Communication Tester | R&S | CMW500 | 116254 | Jun. 07, 2019 | Jun. 07, 2020 |
| | Multi device Controller | ETS-LINDGREN | 7006-001 | 00160105 | N/A | N/A |
| | Highpass Filter (1.2GHz~18GHz) | Micro-Tronics | HPM50108 | G552 | Nov. 29, 2018 | Nov. 29, 2019 |
| | Highpass Filter (3GHz~18GHz) | Micro-Tronics | HPM50117 | G005 | Nov. 29, 2018 | Nov. 29, 2019 |
| \boxtimes | Test Software | Audix | e3 | Sof | tware Version: 9.16 | 0333 |

| ſ | | RF Test Equipment List | | | | | |
|---|-------------|---|--------------|-----------|----------------------------|----------------------------|--------------------------------|
| 1 | Used | Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm dd, yyyy) | Cal. Due date (mm dd, yyyy) |
| I | \boxtimes | Receiver | R&S | ESR7 | 1316.3003K07 -101181-K3 | Nov. 24, 2018 | Nov. 24, 2019 |
| I | \boxtimes | EXA Spectrum Analyzer | KEYSIGHT | N9010A | MY51440197 | Nov. 24, 2018 | Nov. 24, 2019 |
| | \boxtimes | EXA Spectrum Analyzer | KEYSIGHT | N9010B | MY57471561 | Nov. 24, 2018 | Nov. 24, 2019 |
| | \boxtimes | Wideband Radio Communication Tester | R&S | CMW500 | 116254 | Jun. 07, 2019 | Jun. 07, 2020 |
| ĺ | \boxtimes | DC Source | KIKUSUI | PWR400L | LK003024 | Sep. 18, 2018 | Sep. 18, 2019 |
| | \boxtimes | Temp & Humidity chamber | Votisch | VT4002 | 58566133290 020 | Jun. 05, 2018 | Jun. 05, 2020 |



4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

| Test Environment | Selected Values During Tests | | | |
|------------------|------------------------------|-------------|-----------------------|--|
| Test Condition | | Ambient | | |
| rest Condition | Temperature (°C) | Voltage (V) | Relative Humidity (%) | |
| TN/VN | +15 to +35 | 3.8 | 20 to 75 | |
| TL/VL | -10 | 3.6 | 20 to 75 | |
| TH/VL | +55 | 3.6 | 20 to 75 | |
| TL/VH | -10 | 4.4 | 20 to 75 | |
| TH/VH | +55 | 4.4 | 20 to 75 | |

Remark:

- 1) The EUT just work in such extreme temperature of -10 °C to +55 °C and the extreme voltage of 3.6 V to 4.4 V, so here the EUT is tested in the temperature of -10 °C to +55 °C and the voltage of 3.6 V to 4.4 V.
- 2) VN: Normal Voltage; TN: Normal Temperature;
 - TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;
 - VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.

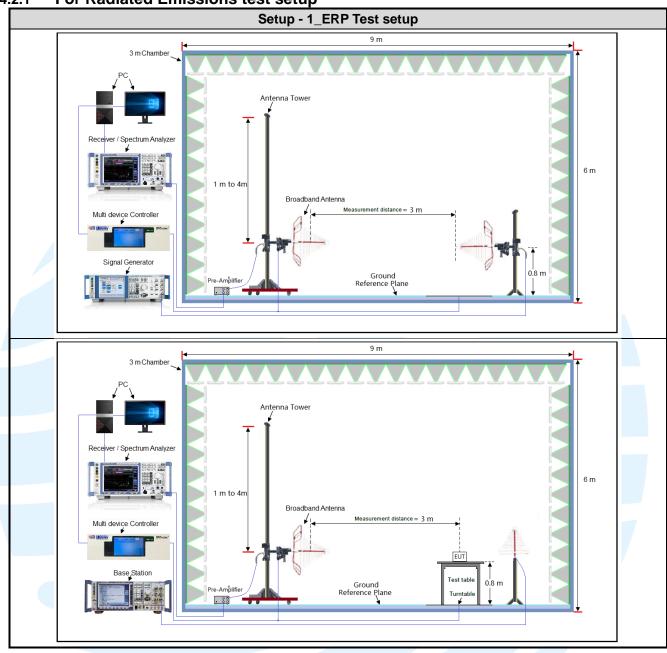
4.1.2 Record of Normal Environment

| Test Item | Temperature (°C) | Relative Humidity (%) | Pressure (kPa) | Tested by |
|--|---------------------|-----------------------|-------------------|--------------|
| Equivalent Isotropic Radiated Power (EIRP) | | | | |
| Conducted Output Power | | | | |
| Peak-to-average ratio | | | | |
| 99%&26dB Bandwidth | 24.3 | 53 | 100.01 | Gemini Huang |
| Band Edge at antenna terminals | | | | |
| Spurious emissions at antenna terminals | | | | |
| Field strength of spurious radiation | 25.2 | 52 | 100.02 | Fire Huo |
| Frequency stability | | | | |

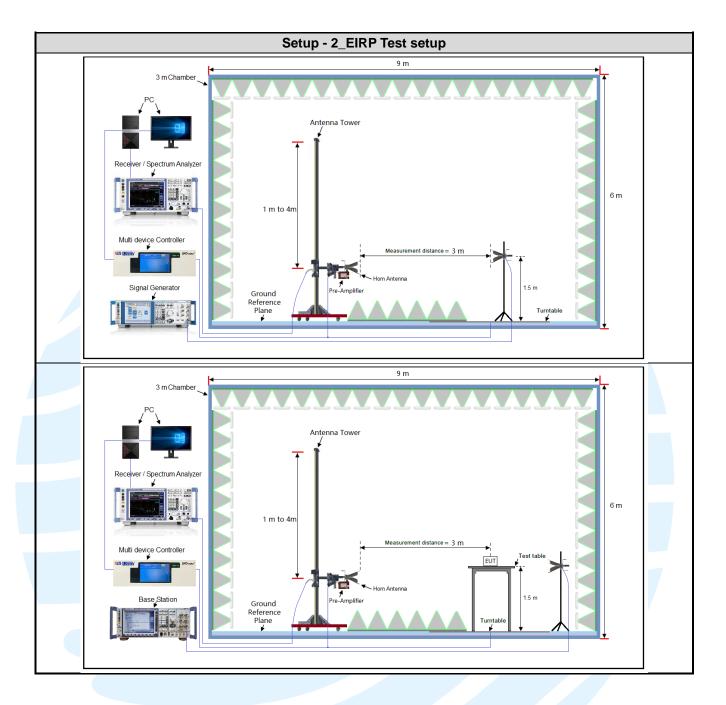


4.2TEST SETUP

4.2.1 For Radiated Emissions test setup

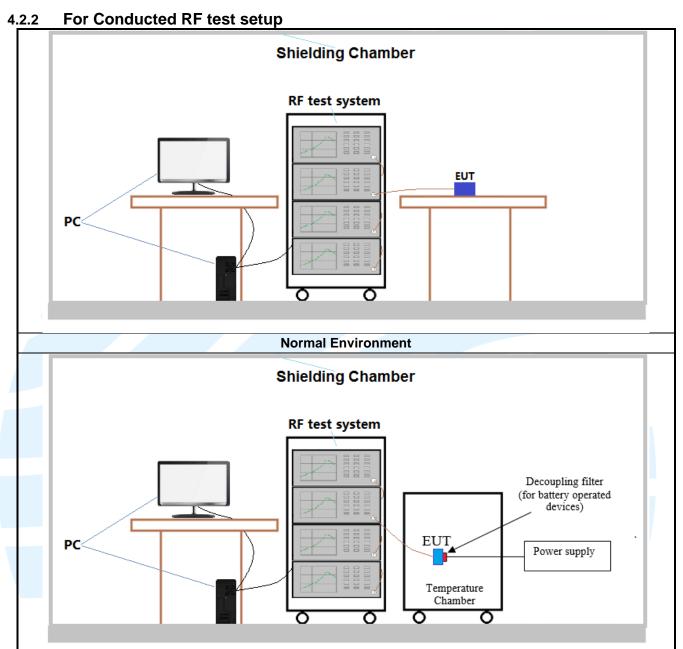








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Extreme Environment



4.3 TEST CHANNELS

| Band | Ty/Dy Eroguenov | | RF Channel | |
|--------------|---------------------|--------------|--------------|--------------|
| Dallu | Tx/Rx Frequency | Low(L) | Middle(M) | High(H) |
| GSM/GPRS/ | Тх | Channel 128 | Channel 190 | Channel 251 |
| EDGE850 | (824 MHz ~ 849 MHz) | 824.2 MHz | 836.6 MHz | 848.8 MHz |
| WCDMA band V | Tx | Channel 4132 | Channel 4182 | Channel 4233 |
| WCDMA band V | (824 MHz ~ 849 MHz) | 826.4 MHz | 836.4 MHz | 846.6 MHz |

| Band | Tx/Rx Frequency | RF Channel | | | | |
|-----------------|---------------------|--------------|--------------|--------------|--|--|
| Danu | TX/KX Frequency | Low(L) | Middle(M) | High(H) | | |
| GSM/GPRS/ | Тх | Channel 512 | Channel 661 | Channel 810 | | |
| EDGE1900 | (1850 MHz-1910 MHz) | 1850.2 MHz | 1880.0 MHz | 1909.8 MHz | | |
| WCDMA Band II | Тх | Channel 9262 | Channel 9400 | Channel 9538 | | |
| WCDIVIA Band II | (1850 MHz-1910 MHz) | 1852.4 MHz | 1880.0 MHz | 1907.6 MHz | | |

| Band | Ty/Dy Eroquoney | RF Channel | | | |
|---------------|---------------------|--------------|--------------|--------------|--|
| | Tx/Rx Frequency | Low(L) | Middle(M) | High(H) | |
| WCDMA Band IV | Тх | Channel 1312 | Channel 1412 | Channel 1513 | |
| | (1710 MHz-1755 MHz) | 1712.4 MHz | 1732.4 MHz | 1752.6 MHz | |

| Band | Test Frequency ID | Bandwidth (MHz) | Number [UL] | Frequency of Uplink (MHz) |
|--------------------------------|----------------------|-------------------|-------------|------------------------------|
| | | 1.4 | 18607 | 1850.7 |
| | | 3 | 18615 | 1851.5 |
| | Low Pongo | 5 | 18625 | 1852.5 |
| | Low Range | 10 | 18650 | 1855 |
| | | 15 | 18675 | 1857.5 |
| LTE Day 10 | | 20 | 18700 | 1860 |
| LTE Band 2 TX: 1850-1910MHz | Middle Range | 1.4/3/5/10/15/20 | 18900 | 1880 |
| 17. 1000 1010WHZ | | 1.4 | 19193 | 1909.3 |
| | | 3 | 19185 | 1908.5 |
| | High Range | 5 | 19175 | 1907.5 |
| | | 10 | 19150 | 1905 |
| | | 15 | 19125 | 1902.5 |
| | | 20 | 19100 | 1900 |
| | | 1.4 | 19957 | 1710.7 |
| | | 3 | 19965 | 1711.5 |
| | Laur Danas | 5 | 19975 | 1712.5 |
| | Low Range | 10 | 20000 | 1715 |
| | | 15 | 20025 | 1717.5 |
| LTE Band 4 | | 20 | 20050 | 1720 |
| TX:1710-1755MHz | Middle Range | 1.4/3/5/10/ 15/20 | 20175 | 1732.5 |
| | | 1.4 | 20393 | 1754.3 |
| | | 3 | 20385 | 1753.5 |
| | High Range | 5 | 20375 | 1752.5 |
| | | 10 | 20350 | 1750 |
| | | 15 | 20325 | 1747.5 |



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| | | 20 | 20300 | 1745 |
|-------------------------------|----------------|------------|-------|--------|
| | | 1.4 | 20407 | 824.7 |
| | l t | 3 | 20415 | 825.5 |
| | Low Range | 5 | 20425 | 826.5 |
| | | 10 | 20450 | 829 |
| LTE band 5 TX:824–849 MHz | Middle Range | 1.4/3/5/10 | 20525 | 836.5 |
| 1 A.024-049 MITZ | | 1.4 | 20643 | 848.3 |
| | Link Danse | 3 | 20635 | 847.5 |
| | High Range | 5 | 20625 | 846.5 |
| | | 10 | 20600 | 844 |
| | | 5 | 20775 | 2502.5 |
| | Low Dongo | 10 | 20800 | 2505 |
| | Low Range | 15 | 20825 | 2507.5 |
| 175 5 17 | | 20 | 20850 | 2510 |
| LTE Band 7 TX:2500-2570MHz | Middle Range | 5/10/15/20 | 21100 | 2535 |
| 17.2000 207 OWN 12 | | 5 | 21425 | 2567.5 |
| | High Range | 10 | 21400 | 2565 |
| | | 15 | 21375 | 2562.5 |
| | | 20 | 21350 | 2560 |
| | | 1.4 | 23017 | 699.7 |
| | Low Range | 3 | 23025 | 700.5 |
| | | 5 | 23035 | 701.5 |
| LTC Dond 10 | | 10 | 23060 | 704 |
| LTE Band 12 TX:699-716MHz | Middle Range | 1.4/3/5/10 | 23095 | 707.5 |
| ., | | 1.4 | 23173 | 715.3 |
| | High Range | 3 | 23165 | 714.5 |
| | riigii ixarige | 5 | 23155 | 713.5 |
| | | 10 | 23130 | 711 |
| | Low Range | 5 | 23205 | 779.5 |
| LTE Band 13 | | 10 | 23230 | 782 |
| TX:777-787MHz | Middle Range | 5/10 | 23230 | 782 |
| | High Range | 5 | 23255 | 784.5 |
| | | 10 | 23230 | 782 |
| | Low Range | 5 | 23755 | 706.5 |
| LTE Band 17 | | 10 | 23780 | 709 |
| TX:704-716MHz | Middle Range | 5/10 | 23790 | 710 |
| | High Range | 5 | 23825 | 713.5 |
| | riigirrango | 10 | 23800 | 711 |

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4.4 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.8Vdc rechargeable Li-on battery. Only the worst case data were recorded in this test report.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X/Y/Z axis, and antenna ports.

The worst case was found when positioned as the table below.

| Band | Mode | Antenna Port | Worst-case axis positioning |
|---------------|------|--------------|-----------------------------|
| GSM 850 | 1TX | Chain 0 | Y axis |
| GSM 1900 | 1TX | Chain 0 | Y axis |
| WCDMA Band II | 1TX | Chain 0 | Y axis |
| WCDMA Band IV | 1TX | Chain 0 | Y axis |
| WCDMA Band V | 1TX | Chain 0 | Y axis |
| LTE Band 2 | 1TX | Chain 0 | Y axis |
| LTE Band 4 | 1TX | Chain 0 | Y axis |
| LTE Band 5 | 1TX | Chain 0 | Y axis |
| LTE Band 12 | 1TX | Chain 0 | Y axis |
| LTE Band 13 | 1TX | Chain 0 | Y axis |
| LTE Band 17 | 1TX | Chain 0 | Y axis |

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000MHz. The resolution is 1 MHz or greater for frequencies above 1000MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

4.5 PRE-SCAN

Pre-scan under all rate at lowest middle and highest channel, find the transmitter power as below:

| GSM 850 Maximum Average Power (dBm) | | | | | | | |
|-------------------------------------|-----------|-----------|-----------|--|--|--|--|
| Channel | 128 | 190 | 251 | | | | |
| Frequency(MHz) | 824.2 MHz | 836.6 MHz | 848.8 MHz | | | | |
| GSM (GMSK, 1Tx-slot) | 32.99 | 33.04 | 33.06 | | | | |
| GPRS (GMSK, 1Tx-slot) | 33.03 | 33.07 | 32.48 | | | | |
| GPRS (GMSK, 2Tx-slot) | 32.14 | 32.18 | 32.20 | | | | |
| GPRS (GMSK, 3Tx-slot) | 30.31 | 30.34 | 30.35 | | | | |
| GPRS (GMSK, 4Tx-slot) | 29.27 | 29.20 | 29.19 | | | | |
| EDGE (8PSK, 1Tx-slot) | 27.92 | 27.82 | 27.64 | | | | |
| EDGE (8PSK, 2Tx-slot) | 27.01 | 26.90 | 26.71 | | | | |
| EDGE (8PSK, 3Tx-slot) | 25.07 | 24.92 | 24.69 | | | | |
| EDGE (8PSK, 4Tx-slot) | 23.93 | 23.77 | 23.57 | | | | |



| GSM 1900 Maximum Average Power (dBm) | | | | | | | | |
|--------------------------------------|------------|------------|------------|--|--|--|--|--|
| Channel | 512 | 661 | 810 | | | | | |
| Frequency(MHz) | 1850.2 MHz | 1880.0 MHz | 1909.8 MHz | | | | | |
| GSM (GMSK, 1Tx-slot) | 29.85 | 29.93 | 29.95 | | | | | |
| GPRS (GMSK, 1Tx-slot) | 29.90 | 29.96 | 29.99 | | | | | |
| GPRS (GMSK, 2Tx-slot) | 27.30 | 27.52 | 27.57 | | | | | |
| GPRS (GMSK, 3Tx-slot) | 27.23 | 27.45 | 27.41 | | | | | |
| GPRS (GMSK, 4Tx-slot) | 26.14 | 26.36 | 26.42 | | | | | |
| EDGE (8PSK, 1Tx-slot) | 27.82 | 27.42 | 27.02 | | | | | |
| EDGE (8PSK, 2Tx-slot) | 26.22 | 25.62 | 25.11 | | | | | |
| EDGE (8PSK, 3Tx-slot) | 24.10 | 23.51 | 22.94 | | | | | |
| EDGE (8PSK, 4Tx-slot) | 22.96 | 22.31 | 21.74 | | | | | |

| | WCDMA Band II Maximum Average Power (dBm) | | | | | | | | |
|-----------------|---|------------|------------|--|--|--|--|--|--|
| Channel | 9262 | 9400 | 9538 | | | | | | |
| Frequency(MHz) | 1852.4 MHz | 1880.0 MHz | 1907.6 MHz | | | | | | |
| RMC 12.2K | 22.93 | 22.96 | 22.94 | | | | | | |
| HSDPA Subtest-1 | 21.90 | 21.95 | 21.99 | | | | | | |
| HSDPA Subtest-2 | 21.87 | 21.92 | 21.79 | | | | | | |
| HSDPA Subtest-3 | 21.36 | 21.35 | 21.41 | | | | | | |
| HSDPA Subtest-4 | 21.33 | 21.39 | 21.42 | | | | | | |
| HSUPA Subtest-1 | 19.91 | 19.96 | 19.94 | | | | | | |
| HSUPA Subtest-2 | 19.87 | 19.94 | 19.89 | | | | | | |
| HSUPA Subtest-3 | 20.91 | 20.85 | 20.99 | | | | | | |
| HSUPA Subtest-4 | 19.49 | 19.52 | 19.54 | | | | | | |
| HSUPA Subtest-5 | 21.43 | 21.45 | 21.37 | | | | | | |

| WCDMA Band IV Maximum Average Power (dBm) | | | | | | | |
|---|------------|------------|------------|--|--|--|--|
| Channel | 1312 | 1412 | 1513 | | | | |
| Frequency(MHz) | 1712.4 MHz | 1732.4 MHz | 1752.6 MHz | | | | |
| RMC 12.2K | 23.15 | 23.67 | 23.75 | | | | |
| HSDPA Subtest-1 | 22.23 | 22.69 | 22.81 | | | | |
| HSDPA Subtest-2 | 22.18 | 22.64 | 22.79 | | | | |
| HSDPA Subtest-3 | 21.76 | 22.17 | 22.27 | | | | |
| HSDPA Subtest-4 | 21.74 | 22.18 | 22.33 | | | | |
| HSUPA Subtest-1 | 21.73 | 22.66 | 22.72 | | | | |
| HSUPA Subtest-2 | 22.20 | 22.68 | 22.81 | | | | |
| HSUPA Subtest-3 | 21.72 | 22.29 | 22.35 | | | | |
| HSUPA Subtest-4 | 22.21 | 22.68 | 22.84 | | | | |
| HSUPA Subtest-5 | 21.68 | 22.18 | 22.21 | | | | |



| WCDMA Band V Maximum Average Power (dBm) | | | | | | | | |
|--|-----------|-----------|-----------|--|--|--|--|--|
| Channel | 4132 | 4182 | 4233 | | | | | |
| Frequency(MHz) | 826.4 MHz | 836.4 MHz | 846.6 MHz | | | | | |
| RMC 12.2K | 22.59 | 22.80 | 22.57 | | | | | |
| HSDPA Subtest-1 | 21.57 | 21.63 | 21.59 | | | | | |
| HSDPA Subtest-2 | 21.61 | 21.55 | 21.51 | | | | | |
| HSDPA Subtest-3 | 21.02 | 21.03 | 21.07 | | | | | |
| HSDPA Subtest-4 | 21.17 | 20.95 | 21.05 | | | | | |
| HSUPA Subtest-1 | 19.77 | 19.64 | 19.57 | | | | | |
| HSUPA Subtest-2 | 19.63 | 19.57 | 19.69 | | | | | |
| HSUPA Subtest-3 | 20.65 | 20.61 | 20.55 | | | | | |
| HSUPA Subtest-4 | 19.32 | 19.23 | 19.07 | | | | | |
| HSUPA Subtest-5 | 21.22 | 21.22 | 21.07 | | | | | |

| | | Lī | ΓE Band 2 | 2 Maximu | ım Averag | ge Power | (dBm) | | | |
|------------|---------------|----------|------------|--------------|-----------|----------|-----------|--------------|-----------|-------|
| Madulation | Modulation RB | | | Test Channel | | RB | | Test Channel | | |
| Wodulation | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High |
| | Channe | I Bandwi | dth: 1.4 N | 1Hz | | | Channel | Bandwid | th: 3 MHz | |
| | 1 | 0 | 22.59 | 22.80 | 22.57 | 1 | 0 | 22.39 | 22.42 | 22.41 |
| | 1 | 2 | 21.57 | 21.63 | 21.59 | 1 | 7 | 22.77 | 22.74 | 22.71 |
| | 1 | 5 | 21.61 | 21.55 | 21.51 | 1 | 14 | 22.42 | 22.38 | 22.55 |
| QPSK | 3 | 0 | 21.02 | 21.03 | 21.07 | 8 | 0 | 21.80 | 21.50 | 21.97 |
| | 3 | 1 | 21.17 | 20.95 | 21.05 | 8 | 3 | 21.71 | 21.60 | 21.82 |
| | 3 | 3 | 19.77 | 19.64 | 19.57 | 8 | 7 | 21.48 | 21.80 | 21.88 |
| | 6 | 0 | 19.63 | 19.57 | 19.69 | 15 | 0 | 21.70 | 21.66 | 21.87 |
| | 1 | 0 | 21.65 | 21.84 | 21.51 | 1 | 0 | 21.74 | 21.87 | 21.52 |
| | 1 | 2 | 21.95 | 21.92 | 22.01 | 1 | 7 | 21.99 | 22.01 | 21.85 |
| | 1 | 5 | 21.75 | 21.57 | 21.52 | 1 | 14 | 21.66 | 21.62 | 21.60 |
| 16QAM | 3 | 0 | 21.84 | 21.65 | 21.95 | 8 | 0 | 20.81 | 20.65 | 21.00 |
| | 3 | 1 | 21.80 | 21.70 | 21.86 | 8 | 3 | 20.66 | 20.59 | 20.83 |
| | 3 | 3 | 21.50 | 21.65 | 22.05 | 8 | 7 | 20.53 | 20.77 | 21.01 |
| | 6 | 0 | 20.78 | 20.68 | 21.05 | 15 | 0 | 20.66 | 20.69 | 20.98 |
| | 1 | 0 | 20.86 | 20.69 | 20.52 | 1 | 0 | 20.83 | 20.66 | 20.59 |
| | 1 | 2 | 20.82 | 20.63 | 20.71 | 1 | 7 | 20.88 | 20.64 | 20.74 |
| | 1 | 5 | 20.71 | 20.67 | 20.68 | 1 | 14 | 20.72 | 20.67 | 20.55 |
| 64QAM | 3 | 0 | 20.93 | 20.85 | 20.63 | 8 | 0 | 19.87 | 19.93 | 19.60 |
| | 3 | 1 | 20.80 | 20.59 | 20.56 | 8 | 3 | 19.82 | 19.57 | 19.57 |
| | 3 | 3 | 20.61 | 20.47 | 20.54 | 8 | 7 | 19.58 | 19.49 | 19.46 |
| | 6 | 0 | 19.80 | 19.59 | 19.51 | 15 | 0 | 19.74 | 19.65 | 19.66 |
| | Chann | el Bandw | idth: 5 M | Hz | | | Channel E | Bandwidt | h: 10 MHz | Z |
| | 1 | 0 | 22.41 | 22.43 | 22.50 | 1 | 0 | 22.55 | 22.43 | 22.51 |
| | 1 | 12 | 22.77 | 22.74 | 22.78 | 1 | 24 | 22.62 | 22.78 | 22.70 |
| | 1 | 24 | 22.35 | 22.46 | 22.51 | 1 | 49 | 22.37 | 22.54 | 22.41 |
| QPSK | 12 | 0 | 21.86 | 21.42 | 22.10 | 25 | 0 | 21.76 | 21.60 | 21.98 |
| | 12 | 6 | 21.78 | 21.63 | 21.93 | 25 | 12 | 21.65 | 21.62 | 21.76 |
| | 12 | 13 | 21.42 | 21.65 | 22.01 | 25 | 25 | 21.60 | 21.71 | 21.93 |
| | 25 | 0 | 21.64 | 21.67 | 22.00 | 50 | 0 | 21.64 | 21.72 | 21.96 |
| | 1 | 0 | 21.65 | 21.88 | 21.49 | 1 | 0 | 21.68 | 21.75 | 21.49 |
| | 1 | 12 | 21.84 | 21.85 | 21.89 | 1 | 24 | 21.99 | 21.96 | 21.99 |
| | 1 | 24 | 21.76 | 21.66 | 21.56 | 1 | 49 | 21.63 | 21.62 | 21.62 |
| 16QAM | 12 | 0 | 20.79 | 20.50 | 21.01 | 25 | 0 | 20.75 | 20.59 | 20.89 |
| | 12 | 6 | 20.70 | 20.62 | 20.74 | 25 | 12 | 20.65 | 20.64 | 20.87 |
| | 12 | 13 | 20.57 | 20.68 | 20.94 | 25 | 25 | 20.55 | 20.66 | 20.94 |
| | 25 | 0 | 20.72 | 20.71 | 21.05 | 50 | 0 | 20.63 | 20.61 | 21.02 |

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| | - | | | | | _ | | | | |
|-------|--------|--------|-----------|-------|-------|-----|-----------|----------|-----------|-------|
| | 1 | 0 | 20.73 | 20.58 | 20.53 | 1 | 0 | 20.79 | 20.69 | 20.67 |
| | 1 | 12 | 20.89 | 20.74 | 20.80 | 1 | 24 | 20.79 | 20.76 | 20.79 |
| | 1 | 24 | 20.62 | 20.69 | 20.74 | 1 | 49 | 20.70 | 20.56 | 20.65 |
| 64QAM | 12 | 0 | 19.81 | 19.78 | 19.79 | 25 | 0 | 19.77 | 19.76 | 19.76 |
| | 12 | 6 | 19.77 | 19.60 | 19.66 | 25 | 12 | 19.66 | 19.55 | 19.64 |
| | 12 | 13 | 19.47 | 19.59 | 19.46 | 25 | 25 | 19.49 | 19.41 | 19.52 |
| | 25 | 0 | 19.67 | 19.63 | 19.67 | 50 | 0 | 19.73 | 19.56 | 19.56 |
| | Channe | Bandwi | dth: 15 M | Hz | = | (| Channel E | Bandwidt | h: 20 MHz | Z |
| | 1 | 0 | 22.48 | 22.39 | 22.52 | 1 | 0 | 22.57 | 22.54 | 22.57 |
| | 1 | 37 | 22.75 | 22.77 | 22.80 | 1 | 50 | 22.79 | 22.80 | 22.84 |
| | 1 | 74 | 22.37 | 22.49 | 22.49 | 1 | 99 | 22.46 | 22.55 | 22.57 |
| QPSK | 37 | 0 | 21.71 | 21.48 | 22.09 | 50 | 0 | 21.90 | 21.61 | 22.10 |
| | 37 | 19 | 21.74 | 21.74 | 21.91 | 50 | 25 | 21.85 | 21.78 | 21.94 |
| | 37 | 39 | 21.52 | 21.66 | 22.00 | 50 | 50 | 21.61 | 21.81 | 22.06 |
| | 75 | 0 | 21.74 | 21.71 | 22.02 | 100 | 0 | 21.78 | 21.83 | 22.07 |
| | 1 | 0 | 21.68 | 21.75 | 21.52 | 1 | 0 | 21.82 | 21.92 | 21.68 |
| | 1 | 37 | 21.90 | 22.02 | 21.95 | 1 | 50 | 22.01 | 22.05 | 22.02 |
| | 1 | 74 | 21.64 | 21.58 | 21.57 | 1 | 99 | 21.80 | 21.71 | 21.63 |
| 16QAM | 37 | 0 | 20.82 | 20.64 | 21.05 | 50 | 0 | 20.89 | 20.65 | 21.08 |
| | 37 | 19 | 20.78 | 20.77 | 20.90 | 50 | 25 | 20.82 | 20.77 | 20.92 |
| | 37 | 39 | 20.62 | 20.71 | 20.90 | 50 | 50 | 20.65 | 20.79 | 21.05 |
| | 75 | 0 | 20.69 | 20.68 | 20.97 | 100 | 0 | 20.81 | 20.76 | 21.07 |
| | 1 | 0 | 20.81 | 20.70 | 20.67 | 1 | 0 | 20.87 | 20.71 | 20.71 |
| | 1 | 37 | 20.86 | 20.62 | 20.85 | 1 | 50 | 20.95 | 20.81 | 20.88 |
| 64QAM | 1 | 74 | 20.71 | 20.60 | 20.56 | 1 | 99 | 20.76 | 20.74 | 20.74 |
| | 37 | 0 | 19.89 | 19.91 | 19.74 | 50 | 0 | 19.95 | 19.94 | 19.80 |
| | 37 | 19 | 19.73 | 19.52 | 19.64 | 50 | 25 | 19.85 | 19.70 | 19.74 |
| | 37 | 39 | 19.59 | 19.49 | 19.63 | 50 | 50 | 19.65 | 19.61 | 19.63 |
| | 75 | 0 | 19.80 | 19.53 | 19.50 | 100 | 0 | 19.82 | 19.68 | 19.69 |

| | | Ľ | ΓE Band | 4 Maximu | m Averag | ge Power | (dBm) | | | |
|------------|--------|----------|------------|-----------|----------|----------|---------|---------|-----------|-------|
| Modulation | R | В | Te | est Chann | iel | R | В | Te | est Chann | el |
| Modulation | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High |
| | Channe | l Bandwi | dth: 1.4 N | /IHz | | | Channel | Bandwid | th: 3 MHz | |
| | 1 | 0 | 22.41 | 22.39 | 22.38 | 1 | 0 | 22.54 | 22.42 | 22.33 |
| | 1 | 2 | 22.73 | 22.68 | 22.49 | 1 | 7 | 22.61 | 22.77 | 22.56 |
| | 1 | 5 | 22.21 | 22.29 | 22.08 | 1 | 14 | 22.30 | 22.24 | 22.23 |
| QPSK | 3 | 0 | 22.76 | 22.62 | 22.57 | 8 | 0 | 21.61 | 21.67 | 21.51 |
| | 3 | 1 | 22.71 | 22.58 | 22.61 | 8 | 3 | 21.77 | 21.66 | 21.55 |
| | 3 | 3 | 22.70 | 22.68 | 22.46 | 8 | 7 | 21.68 | 21.55 | 21.61 |
| | 6 | 0 | 21.64 | 21.62 | 21.50 | 15 | 0 | 21.65 | 21.65 | 21.50 |
| | 1 | 0 | 21.76 | 21.70 | 21.73 | 1 | 0 | 21.70 | 21.59 | 21.63 |
| | 1 | 2 | 21.77 | 21.90 | 21.63 | 1 | 7 | 21.90 | 21.91 | 21.70 |
| | 1 | 5 | 21.58 | 21.49 | 21.43 | 1 | 14 | 21.68 | 21.57 | 21.42 |
| 16QAM | 3 | 0 | 21.65 | 21.60 | 21.51 | 8 | 0 | 20.67 | 20.56 | 20.48 |
| | 3 | 1 | 21.59 | 21.60 | 21.68 | 8 | 3 | 20.73 | 20.64 | 20.67 |
| | 3 | 3 | 21.47 | 21.57 | 21.52 | 8 | 7 | 20.56 | 20.59 | 20.50 |
| | 6 | 0 | 20.67 | 20.60 | 20.45 | 15 | 0 | 20.55 | 20.58 | 20.52 |
| | 1 | 0 | 21.02 | 20.79 | 20.89 | 1 | 0 | 20.95 | 20.66 | 20.83 |
| | 1 | 2 | 21.14 | 20.91 | 20.92 | 1 | 7 | 21.08 | 20.88 | 20.96 |
| | 1 | 5 | 20.72 | 20.62 | 20.47 | 1 | 14 | 20.70 | 20.61 | 20.59 |
| 64QAM | 3 | 0 | 20.81 | 19.94 | 19.87 | 8 | 0 | 19.82 | 19.88 | 19.74 |
| | 3 | 1 | 20.98 | 19.80 | 19.82 | 8 | 3 | 19.89 | 19.79 | 19.82 |
| | 3 | 3 | 20.88 | 19.61 | 19.67 | 8 | 7 | 19.87 | 19.73 | 19.79 |
| | 6 | 0 | 19.91 | 19.71 | 19.77 | 15 | 0 | 19.91 | 19.78 | 19.68 |



| | Chann | el Bandw | idth: 5 M | Hz | | | Channel E | Bandwidt | h: 10 MH | 2 |
|----------------|--|--|--|---|---|--|--|---|--|---|
| | 1 | 0 | 22.49 | 22.42 | 22.47 | 1 | 0 | 22.46 | 22.43 | 22.33 |
| | 1 | 12 | 22.78 | 22.75 | 22.62 | 1 | 24 | 22.76 | 22.75 | 22.62 |
| | 1 | 24 | 22.30 | 22.32 | 22.12 | 1 | 49 | 22.32 | 22.32 | 22.19 |
| QPSK | 12 | 0 | 21.71 | 21.60 | 21.55 | 25 | 0 | 21.59 | 21.65 | 21.52 |
| | 12 | 6 | 21.79 | 21.66 | 21.57 | 25 | 12 | 21.75 | 21.77 | 21.60 |
| | 12 | 13 | 21.67 | 21.65 | 21.61 | 25 | 25 | 21.64 | 21.57 | 21.65 |
| | 25 | 0 | 21.52 | 21.62 | 21.49 | 50 | 0 | 21.67 | 21.64 | 21.44 |
| | 1 | 0 | 21.72 | 21.58 | 21.66 | 1 | 0 | 21.63 | 21.63 | 21.68 |
| | 1 | 12 | 21.86 | 21.86 | 21.63 | 1 | 24 | 21.86 | 21.81 | 21.65 |
| | 1 | 24 | 21.66 | 21.43 | 21.36 | 1 | 49 | 21.51 | 21.49 | 21.35 |
| 16QAM | 12 | 0 | 20.61 | 20.69 | 20.60 | 25 | 0 | 20.60 | 20.62 | 20.51 |
| | 12 | 6 | 20.66 | 20.68 | 20.57 | 25 | 12 | 20.61 | 20.62 | 20.53 |
| | 12 | 13 | 20.62 | 20.67 | 20.48 | 25 | 25 | 20.58 | 20.67 | 20.46 |
| | 25 | 0 | 20.64 | 20.62 | 20.54 | 50 | 0 | 20.58 | 20.66 | 20.48 |
| | 1 | 0 | 20.93 | 20.65 | 21.01 | 1 | 0 | 20.95 | 20.66 | 20.96 |
| | 1 | 12 | 21.06 | 21.05 | 20.93 | 1 | 24 | 20.99 | 20.89 | 20.98 |
| | 1 | 24 | 20.71 | 20.53 | 20.63 | 1 | 49 | 20.64 | 20.53 | 20.63 |
| 64QAM | 12 | 0 | 19.88 | 19.82 | 19.90 | 25 | 0 | 19.83 | 19.92 | 19.87 |
| | 12 | 6 | 19.93 | 19.87 | 19.84 | 25 | 12 | 19.86 | 19.87 | 19.85 |
| | 12 | 13 | 19.78 | 19.68 | 19.75 | 25 | 25 | 19.89 | 19.78 | 19.61 |
| | 25 | 0 | 19.92 | 19.86 | 19.64 | 50 | 0 | 19.93 | 19.81 | 19.65 |
| | | | dth: 15 M | | | | Channel E | | | |
| | 1 | 0 | 22.54 | 22.33 | 22.35 | 1 | 0 | 22.61 | 22.53 | 22.47 |
| | 1 | 37 | 22.62 | 22.73 | 22.55 | 1 | 50 | 22.78 | 22.79 | 22.69 |
| | 1 | 74 | 22.20 | 22.24 | 22.11 | 1 | 99 | 22.37 | 22.35 | 22.27 |
| QPSK | 37 | 0 | 21.60 | 21.62 | 21.64 | 50 | 0 | 21.77 | 21.78 | 21.70 |
| | 37 | 19 | 21.75 | 21.69 | 21.66 | 50 | 25 | 21.80 | 21.78 | 21.74 |
| | 37 | 39 | 21.61 | 21.62 | 21.62 | 50 | 50 | 21.72 | 21.72 | 21.66 |
| | 75 | 0 | 21.53 | 21.66 | 21.55 | 100 | 0 | 21.72 | 21.74 | 21.63 |
| | 1 | 0 | 21.68 | 21.57 | 21.66 | 1 | 0 | 21.82 | 21.76 | 21.74 |
| | 1 | 37 | 21.76 | 21.95 | 21.64 | 1 | 50 | 21.91 | 21.98 | 21.78 |
| | | | | | 04.04 | | 20 | 0.4 | | |
| 400 414 | 1 | 74 | 21.53 | 21.42 | 21.34 | 1 | 99 | 21.71 | 21.58 | 21.45 |
| 16QAM | 1 37 | 74 0 | 21.53 20.57 | 21.42 20.68 | 20.49 | 50 | 0 | 20.74 | 20.76 | 20.67 |
| 16QAM | 1 37 37 | 74 0 19 | 21.53 20.57 20.73 | 21.42 20.68 20.53 | 20.49 20.65 | 50 50 | 0 25 | 20.74 20.78 | 20.76 20.73 | 20.67 20.71 |
| 16QAM | 1 37 37 37 | 74 0 19 39 | 21.53 20.57 20.73 20.56 | 21.42 20.68 20.53 20.60 | 20.49 20.65 20.42 | 50 50 50 | 0 25 50 | 20.74 20.78 20.65 | 20.76 20.73 20.69 | 20.67 20.71 20.58 |
| 16QAM | 1 37 37 37 75 | 74 0 19 39 0 | 21.53 20.57 20.73 20.56 20.57 | 21.42 20.68 20.53 20.60 20.61 | 20.49 20.65 20.42 20.48 | 50 50 50 100 | 0 25 50 0 | 20.74 20.78 20.65 20.74 | 20.76 20.73 20.69 20.72 | 20.67 20.71 20.58 20.63 |
| 16QAM | 1 37 37 37 75 1 | 74 0 19 39 0 | 21.53 20.57 20.73 20.56 20.57 20.95 | 21.42 20.68 20.53 20.60 20.61 20.65 | 20.49 20.65 20.42 20.48 20.81 | 50 50 50 100 | 0 25 50 0 | 20.74 20.78 20.65 20.74 21.03 | 20.76 20.73 20.69 20.72 20.83 | 20.67 20.71 20.58 20.63 21.01 |
| 16QAM | 1 37 37 37 75 1 | 74 0 19 39 0 0 37 | 21.53 20.57 20.73 20.56 20.57 20.95 21.09 | 21.42 20.68 20.53 20.60 20.61 20.65 21.05 | 20.49 20.65 20.42 20.48 20.81 20.90 | 50 50 50 100 1 | 0 25 50 0 0 50 | 20.74 20.78 20.65 20.74 21.03 21.15 | 20.76 20.73 20.69 20.72 20.83 21.06 | 20.67 20.71 20.58 20.63 21.01 21.06 |
| | 1 37 37 37 75 1 1 | 74 0 19 39 0 0 37 74 | 21.53 20.57 20.73 20.56 20.57 20.95 21.09 20.73 | 21.42 20.68 20.53 20.60 20.61 20.65 21.05 20.47 | 20.49 20.65 20.42 20.48 20.81 20.90 20.65 | 50 50 50 100 1 1 | 0 25 50 0 0 50 99 | 20.74 20.78 20.65 20.74 21.03 21.15 20.84 | 20.76 20.73 20.69 20.72 20.83 21.06 20.65 | 20.67 20.71 20.58 20.63 21.01 21.06 20.67 |
| 16QAM 64QAM | 1 37 37 37 75 1 1 1 37 | 74 0 19 39 0 0 37 74 | 21.53 20.57 20.73 20.56 20.57 20.95 21.09 20.73 19.94 | 21.42 20.68 20.53 20.60 20.61 20.65 21.05 20.47 19.78 | 20.49 20.65 20.42 20.48 20.81 20.90 20.65 19.90 | 50 50 50 100 1 1 1 50 | 0 25 50 0 0 50 99 | 20.74 20.78 20.65 20.74 21.03 21.15 20.84 19.98 | 20.76 20.73 20.69 20.72 20.83 21.06 20.65 19.95 | 20.67 20.71 20.58 20.63 21.01 21.06 20.67 19.92 |
| | 1 37 37 37 75 1 1 1 37 | 74 0 19 39 0 0 37 74 0 | 21.53 20.57 20.73 20.56 20.57 20.95 21.09 20.73 19.94 19.99 | 21.42 20.68 20.53 20.60 20.61 20.65 21.05 20.47 19.78 | 20.49 20.65 20.42 20.48 20.81 20.90 20.65 19.90 19.76 | 50 50 50 100 1 1 1 50 50 | 0 25 50 0 0 50 99 0 25 | 20.74 20.78 20.65 20.74 21.03 21.15 20.84 19.98 20.03 | 20.76 20.73 20.69 20.72 20.83 21.06 20.65 19.95 | 20.67 20.71 20.58 20.63 21.01 21.06 20.67 19.92 19.93 |
| | 1 37 37 37 75 1 1 1 37 | 74 0 19 39 0 0 37 74 | 21.53 20.57 20.73 20.56 20.57 20.95 21.09 20.73 19.94 | 21.42 20.68 20.53 20.60 20.61 20.65 21.05 20.47 19.78 | 20.49 20.65 20.42 20.48 20.81 20.90 20.65 19.90 | 50 50 50 100 1 1 1 50 | 0 25 50 0 0 50 99 | 20.74 20.78 20.65 20.74 21.03 21.15 20.84 19.98 | 20.76 20.73 20.69 20.72 20.83 21.06 20.65 19.95 | 20.67 20.71 20.58 20.63 21.01 21.06 20.67 19.92 |



| | | Ľ | TE Band ! | 5 Maximu | m Averac | ae Power | (dBm) | | | |
|------------|----------|----------|------------|-----------|----------|----------|-----------|----------------|-----------|----------------|
| | R | | | est Chann | | | В. | Te | est Chann | el |
| Modulation | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High |
| | Channe | l Bandwi | dth: 1.4 N | ИHz | | | Channel | Bandwid | th: 3 MHz | |
| | 1 | 0 | 23.73 | 23.83 | 23.66 | 1 | 0 | 23.80 | 23.85 | 23.75 |
| | 1 | 2 | 23.87 | 23.82 | 23.85 | 1 | 7 | 23.74 | 23.84 | 23.75 |
| | 1 | 5 | 23.82 | 23.77 | 23.74 | 1 | 14 | 23.91 | 23.71 | 23.72 |
| QPSK | 3 | 0 | 23.83 | 24.00 | 24.03 | 8 | 0 | 22.91 | 22.86 | 23.01 |
| | 3 | 1 | 23.96 | 23.95 | 23.82 | 8 | 3 | 22.93 | 22.84 | 22.92 |
| | 3 | 3 | 23.99 | 23.85 | 23.96 | 8 | 7 | 22.91 | 22.86 | 22.80 |
| | 6 | 0 | 23.00 | 22.93 | 23.02 | 15 | 0 | 22.95 | 22.94 | 22.96 |
| | 1 | 0 | 23.01 | 22.93 | 22.85 | 1 | 0 | 22.85 | 22.81 | 22.81 |
| | 1 | 2 | 23.00 | 22.97 | 22.96 | 1 | 7 | 23.10 | 23.14 | 23.14 |
| | 1 | 5 | 22.93 | 22.88 | 22.75 | 1 | 14 | 22.96 | 22.89 | 22.78 |
| | 3 | 0 | 22.92 | 22.92 | 22.94 | 8 | 0 | 21.80 | 21.89 | 22.03 |
| 16QAM | 3 | 1 | 22.92 | 22.86 | 22.89 | 8 | 3 | 21.85 | 21.85 | 21.84 |
| | 3 | 3 | 22.93 | 22.96 | 22.82 | 8 | 7 | 21.90 | 22.01 | 21.84 |
| | 6 | 0 | 21.93 | 21.90 | 21.87 | 15 | 0 | 22.00 | 21.93 | 21.99 |
| | 1 | 0 | 21.93 | 21.76 | 21.82 | 1 | 0 | 21.95 | 21.73 | 21.86 |
| | 1 | 2 | 22.05 | 21.92 | 21.97 | 1 | 7 | 22.07 | 21.88 | 22.04 |
| 040004 | 1 | 5 | 21.84 | 21.73 | 21.84 | 1 | 14 | 21.92 | 21.82 | 21.84 |
| 64QAM | 3 | 0 | 21.84 | 21.81 | 21.66 | 8 | 0 | 20.84 | 20.63 | 20.81 |
| | 3 | 1 | 21.87 | 21.70 | 21.77 | 8 | 3 | 20.94 | 20.68 | 20.68 |
| | 3 | 3 | 21.83 | 21.63 | 21.85 | 8 | 7 | 20.77 | 20.57 | 20.85 |
| | 6 | 0 | 20.91 | 20.84 | 20.67 | 15 | 0 | 20.89 | 20.80 | 20.85 |
| | | | idth: 5 M | 23.73 | 23.83 | | Channel E | , | - | - |
| | 1 | 12 | 23.70 | 23.73 | 23.85 | 1 | 0 24 | 23.88 23.89 | 23.88 | 23.83 23.95 |
| | 1 | 24 | 23.89 | 23.76 | 23.80 | 1 | 49 | 23.93 | 23.81 | 23.85 |
| QPSK | 12 | 0 | 22.97 | 22.95 | 22.94 | 25 | 0 | 23.00 | 23.00 | 23.11 |
| Qi Oit | 12 | 6 | 22.86 | 22.98 | 22.86 | 25 | 12 | 23.02 | 23.02 | 23.02 |
| | 12 | 13 | 22.97 | 22.94 | 22.82 | 25 | 25 | 23.03 | 23.02 | 22.96 |
| | 25 | 0 | 22.85 | 22.95 | 23.07 | 50 | 0 | 23.05 | 23.07 | 23.09 |
| | 1 | 0 | 22.95 | 22.87 | 22.78 | 1 | 0 | 23.02 | 23.01 | 22.97 |
| | 1 | 12 | 23.11 | 23.00 | 23.13 | 1 | 24 | 23.16 | 23.17 | 23.15 |
| | 1 | 24 | 22.94 | 22.92 | 22.86 | 1 | 49 | 22.97 | 22.98 | 22.93 |
| 16QAM | 12 | 0 | 21.88 | 21.90 | 22.00 | 25 | 0 | 21.98 | 21.98 | 22.09 |
| | 12 | 6 | 21.95 | 21.79 | 21.95 | 25 | 12 | 22.00 | 21.98 | 22.04 |
| | 12 | 13 | 21.96 | 21.91 | 21.89 | 25 | 25 | 22.00 | 22.02 | 21.97 |
| | 25 | 0 | 21.83 | 21.94 | 22.00 | 50 | 0 | 22.02 | 22.01 | 22.03 |
| | 1 | 0 | 21.88 | 21.84 | 21.81 | 1 | 0 | 22.02 | 21.85 | 21.94 |
| | 1 | 12 | 21.98 | 21.90 | 22.06 | 1 | 24 | 22.12 | 21.97 | 22.12 |
| C4C A B 4 | 1 | 24 | 21.93 | 21.75 | 21.72 | 1 | 49 | 21.98 | 21.91 | 21.92 |
| 64QAM | 12 12 | 6 | 20.92 | 20.72 | 20.80 | 25 | 0 12 | 20.95 | 20.82 | 20.81 |
| | 12 | 13 | 20.89 | 20.68 | 20.58 | 25 25 | 25 | 20.95 20.91 | 20.80 | 20.77 |
| | 25 | 0 | 20.83 | 20.70 | 20.74 | 50 | 0 | 20.91 | 20.75 | 20.90 |
| | 20 | U | 20.34 | 20.03 | 20.70 | 30 | U | 20.30 | 20.90 | 20.07 |



LTE Band 7 Maximum Average Power (dBm) RB Test Channel Test Channel Modulation Mid Mid Size Offset Low High **Size** Offset Low High Channel Bandwidth: 5 MHz Channel Bandwidth: 10 MHz 19.80 20.01 19.92 19.74 1 20.03 19.82 1 12 20.19 19.73 1 24 19.77 20.05 20.30 20.04 1 24 19.97 19.81 19.54 1 49 19.96 19.88 19.67 **QPSK** 12 0 18.97 19.28 18.87 25 0 19.05 19.30 18.81 12 6 19.21 19.20 18.96 25 12 19.22 19.11 18.89 18.60 12 13 19.23 18.99 25 25 19.22 18.98 18.64 25 0 19.23 19.17 18.66 50 0 19.27 19.03 18.79 19.34 1 0 18.97 18.88 1 0 19.38 18.93 18.87 19.64 18.97 1 24 19.27 1 12 19.27 19.53 18.85 24 19.11 19.01 18.89 1 49 19.08 19.02 18.73 1 12 18.24 17.75 25 0 17.99 17.85 16QAM 0 18.01 18.15 12 18.25 18.14 17.95 25 12 18.35 18.10 17.79 6 12 13 18.37 18.01 17.65 25 25 18.36 18.09 17.65 17.74 25 0 18.32 50 0 18.26 18.24 18.11 17.68 1 0 18.38 18.37 18.41 1 0 18.34 18.38 18.30 12 18.61 18.61 18.53 1 24 18.71 18.59 1 18.46 1 24 18.38 18.11 18.15 1 49 18.36 18.24 18.21 25 64QAM 12 0 17.28 17.12 16.95 0 17.27 17.19 17.06 25 12 6 17.37 17.36 12 17.46 17.37 17.40 17.40 12 13 17.49 25 25 17.50 17.47 17.57 17.48 17.43 25 17.30 17.23 0 17.42 17.41 50 0 17.40 17.44 Channel Bandwidth: 15 MHz Channel Bandwidth: 20 MHz 0 19.97 19.86 19.78 1 0 20.16 19.98 19.81 1 37 1 20.19 20.15 19.84 1 50 20.37 20.16 19.93 1 74 20.01 19.75 19.64 1 99 20.01 19.89 19.73 **QPSK** 37 19.04 19.22 18.93 50 19.30 18.95 0 0 19.15 37 19 19.34 19.14 18.89 50 25 19.35 19.20 19.01 37 39 19.37 19.00 18.67 50 50 19.40 19.17 18.67 75 0 19.17 19.05 18.63 100 0 19.28 19.23 18.81 1 0 19.49 18.91 18.92 1 0 19.50 19.01 19.03 1 37 19.63 19.43 19.02 1 50 19.44 19.67 19.03 1 74 19.04 19.06 18.78 1 99 19.15 19.12 18.91 16QAM 37 0 17.98 18.24 17.90 50 0 18.14 18.28 17.94 37 17.90 25 17.98 19 18.39 18.10 50 18.39 18.16 37 39 18.39 18.03 17.47 50 50 18.42 18.19 17.66 75 0 18.25 18.11 17.71 100 0 18.33 18.26 17.79 0 18.48 18.41 18.38 0 1 1 18.54 18.49 18.43 1 37 18.44 1 50 18.60 18.63 18.74 18.68 18.62 1 74 18.40 18.14 18.15 1 99 18.43 18.30 18.35 17.14 64QAM 37 0 17.25 17.05 17.14 50 0 17.31 17.22 37 19 17.41 17.45 17.37 50 25 17.57 17.47 17.40 37 39 17.43 50 50 17.49 17.42 17.61 17.59 17.58 75 0 17.48 17.38 17.16 100 0 17.50 17.47 17.34



| | | LT | E Band 1 | 2 Maximi | um Avera | ge Powei | r (dBm) | | | |
|-------------|--------|----------|----------------|----------------|----------------|----------|-----------|----------------|----------------|----------------|
| Madridation | R | В | | est Chann | | | B | Te | est Chann | el |
| Modulation | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High |
| | Channe | I Bandwi | dth: 1.4 N | ИHz | | | Channel | Bandwid | th: 3 MHz | |
| | 1 | 0 | 23.67 | 23.57 | 23.46 | 1 | 0 | 23.59 | 23.62 | 23.60 |
| | 1 | 2 | 23.69 | 23.70 | 23.65 | 1 | 7 | 23.61 | 23.69 | 23.60 |
| | 1 | 5 | 23.52 | 23.62 | 23.68 | 1 | 14 | 23.68 | 23.56 | 23.54 |
| QPSK | 3 | 0 | 23.69 | 23.67 | 23.56 | 8 | 0 | 22.81 | 22.69 | 22.47 |
| | 3 | 1 | 23.81 | 23.81 | 23.67 | 8 | 3 | 22.80 | 22.65 | 22.75 |
| | 3 | 3 | 23.87 | 23.92 | 23.59 | 8 | 7 | 22.80 | 22.92 | 22.58 |
| | 6 | 0 | 22.76 | 22.79 | 22.53 | 15 | 0 | 22.83 | 22.84 | 22.63 |
| | 1 | 0 | 22.62 | 22.54 | 22.73 | 1 | 0 | 22.69 | 22.67 | 22.75 |
| | 1 | 2 | 22.76 | 22.87 | 22.74 | 1 | 7 | 22.76 | 22.91 | 22.73 |
| | 1 | 5 | 22.76 | 22.56 | 22.59 | 1 | 14 | 22.73 | 22.50 | 22.69 |
| 16QAM | 3 | 0 | 22.67 | 22.61 | 22.51 | 8 | 0 | 21.70 | 21.68 | 21.43 |
| | 3 | 1 | 22.85 | 22.64 | 22.61 | 8 | 3 | 21.76 | 21.78 | 21.54 |
| | 3 | 3 | 22.73 | 22.92 | 22.49 | 8 | 7 | 21.73 | 21.94 | 21.63 |
| | 6 | 0 | 21.86 | 21.85 | 21.52 | 15 | 0 | 21.87 | 21.72 | 21.53 |
| | 1 | 0 | 21.86 | 21.69 | 21.63 | 1 | 0 | 21.77 | 21.78 | 21.59 |
| | 1 | 2 | 21.82 | 21.68 | 21.93 | 1 | 7 | 21.87 | 21.81 | 21.86 |
| | 1 | 5 | 21.79 | 21.74 | 21.75 | 1 | 14 | 21.81 | 21.88 | 21.66 |
| 64QAM | 3 | 0 | 21.88 | 21.63 | 21.70 | 8 | 0 | 20.83 | 20.64 | 20.65 |
| | 3 | 1 | 21.85 | 21.80 | 21.87 | 8 | 3 | 20.83 | 20.80 | 20.89 |
| | 3 | 3 | 21.96 | 21.89 | 21.76 | 8 | 7 | 20.85 | 20.95 | 20.63 |
| | 6 | 0 | 20.76 | 20.77 | 20.80 | 15 | 0 | 20.92 | 20.89 | 20.66 |
| | Chann | el Bandw | idth: 5 M | Hz | - | | Channel E | Bandwidt | h: 10 MH | Z |
| | 1 | 0 | 23.60 | 23.44 | 23.44 | 1 | 0 | 23.68 | 23.63 | 23.64 |
| | 1 | 12 | 23.60 | 23.76 | 23.74 | 1 | 24 | 23.79 | 23.79 | 23.78 |
| | 1 | 24 | 23.71 | 23.49 | 23.52 | 1 | 49 | 23.72 | 23.64 | 23.69 |
| QPSK | 12 | 0 | 22.87 | 22.76 | 22.43 | 25 | 0 | 22.88 | 22.77 | 22.60 |
| | 12 | 6 | 22.79 | 22.74 | 22.67 | 25 | 12 | 22.87 | 22.82 | 22.76 |
| | 12 | 13 | 22.77 | 22.94 | 22.71 | 25 | 25 | 22.93 | 22.94 | 22.75 |
| | 25 | 0 | 22.84 | 22.78 | 22.59 | 50 | 0 | 22.93 | 22.89 | 22.67 |
| | 1 | 0 | 22.59 | 22.64 | 22.61 | 1 | 0 | 22.72 | 22.72 | 22.76 |
| | 1 | 12 | 22.77 | 22.94 | 22.62 | 1 | 24 | 22.89 | 22.96 | 22.78 |
| 400 414 | 1 | 24 | 22.67 | 22.55 | 22.51 | 1 | 49 | 22.81 | 22.65 | 22.71 |
| 16QAM | 12 | 0 | 21.76 | 21.70 | 21.58 | 25 | 0 | 21.83 | 21.77 | 21.60 |
| | 12 | 6 | 21.74 | 21.75 | 21.71 | 25 | 12 | 21.87 | 21.80 | 21.72 |
| | 12 | 13 | 21.80 | 21.87 | 21.48 | 25 | 25 | 21.91 | 21.95 | 21.65 |
| | 25 | 0 | 21.84 | 21.77 | 21.48 | 50 | 0 | 21.89 | 21.86 21.85 | 21.64 |
| | 1 | 12 | 21.85 21.92 | 21.84 21.84 | 21.67 21.77 | 1 | 0 24 | 21.89 22.00 | 21.85 | 21.71 21.95 |
| | 1 | 24 | 21.92 | 21.71 | 21.77 | 1 | 49 | 21.90 | 21.88 | 21.85 |
| 64QAM | 12 | 0 | 20.82 | 20.69 | 20.76 | 25 | 0 | 20.92 | 20.77 | 20.77 |
| U÷Q∕∖IVI | 12 | 6 | 20.82 | 20.89 | 20.76 | 25 | 12 | 20.92 | 20.77 | 20.77 |
| | 12 | 13 | 20.96 | 20.92 | 20.78 | 25 | 25 | 20.98 | 20.97 | 20.79 |
| | 25 | 0 | 20.85 | 20.86 | 20.73 | 50 | 0 | 20.96 | 20.95 | 20.79 |
| | 20 | J | 20.00 | 20.00 | 20.10 | 30 | J | 20.30 | 20.00 | 20.01 |



| | | ΙT | E Band 1 | 3 Maximi | um Avera | ge Power | (dBm) | |
|------------|-------|----------|-----------|-----------|----------|----------|-----------|-------------------|
| | R | <u> </u> | | est Chann | | | B | Test Channel |
| Modulation | Size | Offset | Low | Mid | High | Size | Offset | Low / Mid / High |
| | Chann | el Bandw | idth: 5 M | Hz | | | Channel E | Bandwidth: 10 MHz |
| | 1 | 0 | 23.41 | 23.48 | 23.37 | 1 | 0 | 23.51 |
| | 1 | 12 | 23.66 | 23.45 | 23.60 | 1 | 24 | 23.54 |
| | 1 | 24 | 23.64 | 23.38 | 23.30 | 1 | 49 | 23.39 |
| QPSK | 12 | 0 | 22.58 | 22.66 | 22.46 | 25 | 0 | 22.66 |
| | 12 | 6 | 22.65 | 22.50 | 22.53 | 25 | 12 | 22.62 |
| | 12 | 13 | 22.54 | 22.43 | 22.45 | 25 | 25 | 22.62 |
| | 25 | 0 | 22.60 | 22.52 | 22.48 | 50 | 0 | 22.67 |
| | 1 | 0 | 22.36 | 22.37 | 22.50 | 1 | 0 | 22.47 |
| | 1 | 12 | 22.78 | 22.66 | 22.53 | 1 | 24 | 22.66 |
| | 1 | 24 | 22.42 | 22.31 | 22.30 | 1 | 49 | 22.34 |
| 16QAM | 12 | 0 | 21.51 | 21.47 | 21.37 | 25 | 0 | 21.59 |
| | 12 | 6 | 21.58 | 21.49 | 21.43 | 25 | 12 | 21.57 |
| | 12 | 13 | 21.49 | 21.44 | 21.32 | 25 | 25 | 21.53 |
| | 25 | 0 | 21.55 | 21.54 | 21.40 | 50 | 0 | 21.57 |
| | 1 | 0 | 21.49 | 21.53 | 21.54 | 1 | 0 | 21.63 |
| | 1 | 12 | 21.71 | 21.75 | 21.81 | 1 | 24 | 21.85 |
| | 1 | 24 | 21.47 | 21.39 | 21.55 | 1 | 49 | 21.59 |
| 64QAM | 12 | 0 | 20.53 | 20.68 | 20.55 | 25 | 0 | 20.72 |
| | 12 | 6 | 20.64 | 20.69 | 20.60 | 25 | 12 | 20.74 |
| | 12 | 13 | 20.68 | 20.73 | 20.75 | 25 | 25 | 20.76 |
| | 25 | 0 | 20.76 | 20.60 | 20.73 | 50 | 0 | 20.78 |

| | | | F D 1.4 | 7 14 | | | (ID) | | | |
|------------|-------|----------|-----------|----------|----------|------|-----------|----------|-----------|-------|
| | | | | | um Avera | | ` ' | | | |
| Modulation | R | | Te | st Chann | | R | | Te | est Chann | |
| Wodalation | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High |
| | Chann | el Bandw | idth: 5 M | Hz | | | Channel E | Bandwidt | h: 10 MH: | Z |
| | 1 | 0 | 23.54 | 23.67 | 23.50 | 1 | 0 | 23.70 | 23.70 | 23.66 |
| | 1 | 12 | 23.83 | 23.66 | 23.72 | 1 | 24 | 23.86 | 23.82 | 23.80 |
| | 1 | 24 | 23.57 | 23.54 | 23.67 | 1 | 49 | 23.73 | 23.70 | 23.78 |
| QPSK | 12 | 0 | 22.50 | 22.54 | 22.66 | 25 | 0 | 22.70 | 22.68 | 22.68 |
| | 12 | 6 | 22.79 | 22.79 | 22.70 | 25 | 12 | 22.85 | 22.85 | 22.84 |
| | 12 | 13 | 22.87 | 22.69 | 22.64 | 25 | 25 | 22.89 | 22.85 | 22.81 |
| | 25 | 0 | 22.64 | 22.75 | 22.72 | 50 | 0 | 22.81 | 22.82 | 22.75 |
| | 1 | 0 | 22.71 | 22.64 | 22.61 | 1 | 0 | 22.75 | 22.81 | 22.75 |
| | 1 | 12 | 22.88 | 22.89 | 22.73 | 1 | 24 | 22.95 | 22.93 | 22.83 |
| | 1 | 24 | 22.61 | 22.57 | 22.65 | 1 | 49 | 22.80 | 22.75 | 22.85 |
| 16QAM | 12 | 0 | 21.57 | 21.56 | 21.66 | 25 | 0 | 21.69 | 21.66 | 21.68 |
| | 12 | 6 | 21.74 | 21.79 | 21.76 | 25 | 12 | 21.79 | 21.81 | 21.80 |
| | 12 | 13 | 21.80 | 21.74 | 21.63 | 25 | 25 | 21.87 | 21.79 | 21.76 |
| | 25 | 0 | 21.72 | 21.60 | 21.73 | 50 | 0 | 21.78 | 21.75 | 21.74 |
| | 1 | 0 | 21.81 | 21.81 | 21.76 | 1 | 0 | 21.97 | 21.98 | 21.80 |
| | 1 | 12 | 21.89 | 21.96 | 21.74 | 1 | 24 | 21.93 | 22.07 | 21.88 |
| | 1 | 24 | 21.72 | 21.84 | 21.74 | 1 | 49 | 21.83 | 21.85 | 21.78 |
| 64QAM | 12 | 0 | 20.53 | 20.67 | 20.57 | 25 | 0 | 20.67 | 20.79 | 20.62 |
| | 12 | 6 | 20.65 | 20.91 | 20.85 | 25 | 12 | 20.72 | 20.91 | 20.88 |
| | 12 | 13 | 20.66 | 20.72 | 20.66 | 25 | 25 | 20.85 | 20.90 | 20.71 |
| | 25 | 0 | 20.68 | 20.76 | 20.72 | 50 | 0 | 20.72 | 20.87 | 20.86 |



Pre-scan all bandwidth and RB, find worse case mode are chosen to the report, the worse mode applicability and tested channel detail as below:

| Band | Radiated | Conducted |
|----------------------------|--|---|
| GSM/GPRS/ EDGE 850/1900 | 1) GSM (GMSK, 1Tx-slot) Link 2) GPRS (GMSK, 1Tx-slot) Link 3) EDGE (8PSK, 1Tx-slot) Link | 1) GSM (GMSK,1Tx-slot) Link 2) GPRS (GMSK, 1Tx-slot) Link 3) EDGE (8PSK, 1Tx-slot) Link |
| WCDMA Band II/IVV | RMC 12.2Kbps Link | RMC 12.2Kbps Link |

| | | | Ва | ındwic | lth(MF | łz) | | | Modulatio | n | | RB | | Test Channel | | |
|-----------------------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|
| Item | Band | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | М | Н |
| | 2 | | | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes | | | \boxtimes | \boxtimes | |
| | 4 | | \boxtimes | | \boxtimes | | | | \boxtimes | |
| | 5 | \boxtimes | | | \boxtimes | • | • | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | | | \boxtimes | |
| ERP/EIRP | 7 | - | - | \boxtimes | | | | \boxtimes | \boxtimes |
| | 12 | | \boxtimes | | \boxtimes | • | • | \boxtimes | | \boxtimes | | | | | \boxtimes | \boxtimes |
| | 13 | - | - | \boxtimes | \boxtimes | • | - | \boxtimes | \boxtimes | | \boxtimes | | | | | \boxtimes |
| | 17 | - | - | \boxtimes | \boxtimes | • | - | \boxtimes | | | \boxtimes | | | | | |
| | 2 | | \boxtimes | | | \boxtimes | | | \boxtimes | |
| | 4 | | | | | | | \boxtimes | \boxtimes | | \boxtimes | \boxtimes | | | | |
| Conducted | 5 | | | | \boxtimes | • | • | \boxtimes | \boxtimes | | \boxtimes | \boxtimes | | | \boxtimes | |
| output | 7 | - | - | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | | \boxtimes | | | \boxtimes | |
| power | 12 | | \boxtimes | \boxtimes | \boxtimes | • | • | \boxtimes | \boxtimes | \boxtimes | | \boxtimes | \boxtimes | | \boxtimes | |
| | 13 | - | - | \boxtimes | \boxtimes | • | • | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes | |
| | 17 | - | - | \boxtimes | \boxtimes | • | • | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes | |
| | 2 | | \boxtimes | \boxtimes | | | \boxtimes | \boxtimes | | | | | | \boxtimes | \boxtimes | \boxtimes |
| | 4 | | \boxtimes | | | | | \boxtimes | \boxtimes | |
| | 5 | \boxtimes | \boxtimes | \boxtimes | \boxtimes | ı | • | \boxtimes | \boxtimes | \boxtimes | | | \boxtimes | | \boxtimes | \boxtimes |
| 99%&26dB Bandwidth | 7 | - | - | | | | | \boxtimes | | | | | | | | |
| | 12 | \boxtimes | \boxtimes | | \boxtimes | - | - | \boxtimes | | \boxtimes | | | \boxtimes | | \boxtimes | \boxtimes |
| | 13 | - | - | \boxtimes | \boxtimes | - | - | \boxtimes | \boxtimes | \boxtimes | | | \boxtimes | | \boxtimes | \boxtimes |
| | 17 | - | - | | \boxtimes | - | - | \boxtimes | \boxtimes | \boxtimes | | | | | | \boxtimes |
| peak-to- average | 2 | | | | | | | \boxtimes | | \boxtimes | | | | | | |
| ratio | 4 | | | | | | | | | \boxtimes | | | | | | |



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| I | | | | | | | | | | | | | | | | |
|---|-------------------------|----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 5 | | | | | - | - | | | | | | | | |
| | | 7 | - | - | | | | | | | | | | | | |
| | | 12 | | | | | - | - | | | | | | | | |
| | | 13 | - | - | | | - | - | \boxtimes | | | | | | \boxtimes | |
| | | 17 | - | - | | | - | - | | | | | | \boxtimes | | \boxtimes |
| | | 2 | | | | | | \boxtimes | \boxtimes | | | | \boxtimes | \boxtimes | | \boxtimes |
| | | 4 | | | | | | \boxtimes | \boxtimes | \boxtimes | | | | \boxtimes | | |
| | Band Edge | 5 | \boxtimes | \boxtimes | \boxtimes | \boxtimes | • | - | | \boxtimes | \boxtimes | \boxtimes | | \boxtimes | | \boxtimes |
| | at antenna terminals | 7 | - | - | | \boxtimes | | \boxtimes | | \boxtimes | \boxtimes | | | \boxtimes | | \boxtimes |
| | terminais | 12 | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | - | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes |
| | | 13 | - | • | \boxtimes | \boxtimes | • | - | | | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes |
| | | 17 | - | - | \boxtimes | \boxtimes | • | - | | | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes |
| | | 2 | \boxtimes | | | | | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes | \boxtimes | \boxtimes |
| | | 4 | \boxtimes | | | | | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes | \boxtimes | \boxtimes |
| | Spurious | 5 | \boxtimes | \boxtimes | | \boxtimes | - | - | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes | | |
| | emissions at antenna | 7 | - | - | \boxtimes | | \boxtimes | \boxtimes | \boxtimes |
| | terminals | 12 | \boxtimes | \boxtimes | \boxtimes | \boxtimes | - | - | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes | \boxtimes | \boxtimes |
| | | 13 | - | - | \boxtimes | \boxtimes | - | - | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes | \boxtimes | \boxtimes |
| | | 17 | - | - | \boxtimes | \boxtimes | - | - | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes | | |
| | | 2 | \boxtimes | | | | | | \boxtimes | | | \boxtimes | | | \boxtimes | |
| | | 4 | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | | | \boxtimes | | | \boxtimes | |
| | Field | 5 | \boxtimes | \boxtimes | \boxtimes | \boxtimes | • | - | | | | \boxtimes | | | \boxtimes | |
| | strength of spurious | 7 | - | | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | | | \boxtimes | | | \boxtimes | |
| | radiation | 12 | \boxtimes | \boxtimes | \boxtimes | \boxtimes | ı | - | | | | \boxtimes | | | \boxtimes | |
| | | 13 | - | /- | \boxtimes | \boxtimes | - | - | | | | \boxtimes | | | \boxtimes | |
| | | 17 | - | • | \boxtimes | \boxtimes | • | - | \boxtimes | | | \boxtimes | | | \boxtimes | |
| | | 2 | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes | | | | \boxtimes | | \boxtimes | |
| | Frequency stability | 4 | \boxtimes | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes | | | | \boxtimes | | \boxtimes | |
| | | 5 | | \boxtimes | \boxtimes | \boxtimes | - | - | | | | | \boxtimes | | \boxtimes | |



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| 7 | - | - | | | | | | | \boxtimes | \boxtimes | |
|----|-------------|-------------|-------------|-------------|---|-------------|--|--|-------------|-------------|--|
| 12 | \boxtimes | \boxtimes | \boxtimes | \boxtimes | | \boxtimes | | | \boxtimes | \boxtimes | |
| 13 | - | - | \boxtimes | \boxtimes | | \boxtimes | | | \boxtimes | \boxtimes | |
| 17 | - | - | \boxtimes | | • | \boxtimes | | | \boxtimes | \boxtimes | |

The mark "⊠" means is chosen for testing; The mark "⊡" means is not chosen for testing; The mark "-" means is not supported bandwidth