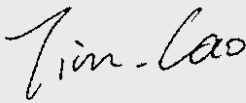


Test report No:  
2580829R.705

## FCC TEST REPORT

|                                             |                                                                                                                    |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Product Name                                | 5G Smartphone                                                                                                      |
| Trademark                                   | Schok                                                                                                              |
| Model and /or type reference                | Schok Volt SV69S                                                                                                   |
| FCC ID                                      | 2AM9L-SV69S                                                                                                        |
| Applicant's name / address                  | Schok, LLC.<br>5850 Town and Country Blvd, Suite 203   Frisco, TX 75034                                            |
| Test method requested, standard             | FCC CFR Title 47 Part 22 & 24 & 27 & 90<br>ANSI C63.26: 2015<br>ANSI/TIA-603-E: 2016                               |
| Verdict Summary                             | IN COMPLIANCE                                                                                                      |
| Documented by (name / position & signature) | Tim Cao/ Project Manager<br>    |
| Approved by (name / position & signature)   | Frank He/ Technical Manager<br> |
| Date of issue                               | 2025-12-10                                                                                                         |
| Report Version                              | V1.0                                                                                                               |
| Report template No.                         | Template_FCC-WWAN-RF-V1.0                                                                                          |

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## COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

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The results presented in this Test Report apply only to the particular item under test established in this document.

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## GENERAL CONDITIONS

|                       |                                                                                                                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Location         | No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China                                                                                                                     |
| Test Facility         | A2LA (Certificate No. 3235.01)<br>CNAS (Certificate No. L5313)<br>FCC - Designation Number: CN1199<br>Test Firm Registration Number: 566524<br>ISED - CAB identifier: CN0040<br>IC#: 4075B |
| Date (receive sample) | Sept. 15, 2025                                                                                                                                                                             |
| Date (start test)     | Sept. 16, 2025                                                                                                                                                                             |
| Date (finish test)    | Nov. 16, 2025                                                                                                                                                                              |

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
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DOCUMENT HISTORY

| Report No.   | Version | Description              | Issued Date |
|--------------|---------|--------------------------|-------------|
| 2580829R.705 | V1.0    | Initial issue of report. | 2025-12-10  |
|              |         |                          |             |
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|              |         |                          |             |

## TEST SUMMARY

### LTE Band 5/26(824~849 MHz)/LTE CA\_5B

| Test Item                                        | FCC Rule No.                                 | Requirements                                                                                            | Verdict |
|--------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§22.913(a)(5)                    | ERP ≤ 7 W                                                                                               | Pass    |
| Peak-Average Ratio                               | §22.913(d)                                   | Limit≤13 dB                                                                                             | Pass    |
| Modulation Characteristics                       | §2.1047                                      | Digital modulation                                                                                      | Pass    |
| Bandwidth                                        | §2.1049                                      | OBW: No limit.<br>EBW: No limit.                                                                        | Pass    |
| Band Edges Compliance                            | §2.1051,<br>§22.917(a)                       | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.               | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051,<br>§22.917(a)                       | FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. | Pass    |
| Field Strength of Spurious Radiation             | §2.1053,<br>§22.917(a)                       | FCC: ≤ -13 dBm/100 kHz.                                                                                 | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§22.355 | ≤ ±2.5ppm.                                                                                              | Pass    |

### LTE Band 2 /25/LTE CA\_2C

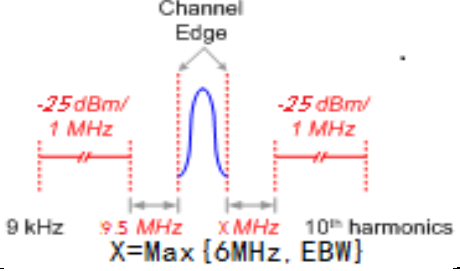
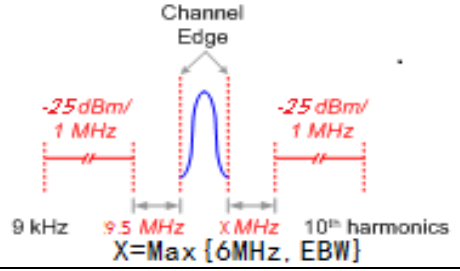
| Test Item                                        | FCC Rule No.                                 | Requirements                                                                                                 | Verdict |
|--------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§24.232(c)                       | EIRP ≤ 2 W                                                                                                   | Pass    |
| Peak-Average Ratio                               | §24.232(d)                                   | Limit≤13 dB                                                                                                  | Pass    |
| Modulation Characteristics                       | §2.1047                                      | Digital modulation                                                                                           | Pass    |
| Bandwidth                                        | §2.1049                                      | OBW: No limit.<br>EBW: No limit.                                                                             | Pass    |
| Band Edges Compliance                            | §2.1051,<br>§24.238(a)                       | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.                    | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051,<br>§24.238(a)                       | ≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges. | Pass    |
| Field Strength of Spurious Radiation             | §2.1053,<br>§24.238(a)                       | ≤ -13 dBm/1 MHz.                                                                                             | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§24.235 | Within authorized bands of operation/frequency block.                                                        | Pass    |

### LTE Band 4 /66/ LTE CA\_66B/ LTE CA\_66C

| Test Item                                        | FCC Rule No.             | Requirements                     | Verdict |
|--------------------------------------------------|--------------------------|----------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§27.50(d)(4) | EIRP ≤ 1 W                       | Pass    |
| Peak-Average Ratio                               | §27.50(d)(5)             | Limit≤13 dB                      | Pass    |
| Modulation Characteristics                       | §2.1047                  | Digital modulation               | Pass    |
| Bandwidth                                        | §2.1049                  | OBW: No limit.<br>EBW: No limit. | Pass    |

|                                        |                                             |                                                                                                                   |      |
|----------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------|
| Band Edges Compliance                  | §2.1051, §27.53(h)                          | $\leq -13$ dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.                    | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(h)                          | $\leq -13$ dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges. | Pass |
| Field Strength of Spurious Radiation   | §2.1053, §27.53(h)                          | $\leq -13$ dBm/1 MHz.                                                                                             | Pass |
| Frequency Stability                    | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | Within authorized bands of operation/frequency block.                                                             | Pass |

**LTE Band 7/41/ CA\_41C**

| Test Item                                        | FCC Rule No.                                | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Verdict |
|--------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(h)(2)                       | EIRP $\leq$ 2W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Pass    |
| Peak-Average Ratio                               | ---                                         | $\leq 13$ dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pass    |
| Modulation Characteristics                       | §2.1047                                     | Digital modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Pass    |
| Bandwidth                                        | §2.1049                                     | OBW: No limit.<br>EBW: No limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Pass    |
| Band Edges Compliance                            | §2.1051, §27.53(m4)                         | For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051, §27.53(m)                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pass    |
| Field Strength of Spurious Radiation             | §2.1053, §27.53(m)                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | Within authorized bands of operation/frequency block.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Pass    |

**LTE Band 12**

| Test Item                                        | FCC Rule No.                                | Requirements                                                                                                        | Verdict |
|--------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046<br>§27.50(c)(10)                    | ERP ≤ 3 W.                                                                                                          | Pass    |
| Peak-Average Ratio                               | ---                                         | Limit≤13 dB                                                                                                         | Pass    |
| Modulation Characteristics                       | §2.1047                                     | Digital modulation                                                                                                  | Pass    |
| Bandwidth                                        | §2.1049                                     | OBW: No limit.<br>EBW: No limit.                                                                                    | Pass    |
| Band Edges Compliance                            | §2.1051,<br>§27.53(g)                       | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.                           | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051,<br>§27.53(g)                       | FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges. | Pass    |
| Field Strength of Spurious Radiation             | §2.1053,<br>§27.53(g)                       | FCC: ≤ -13 dBm/100 kHz.                                                                                             | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | Within authorized bands of operation/frequency block.                                                               | Pass    |

**LTE Band 13**

| Test Item                                        | FCC Rule No.                                | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Verdict |
|--------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§27.50(b)(10)                   | ERP ≤ 3 W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Pass    |
| Peak-Average Ratio                               | ---                                         | Limit≤13 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Pass    |
| Modulation Characteristics                       | §2.1047                                     | Digital modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Pass    |
| Bandwidth                                        | §2.1049,                                    | OBW: No limit.<br>EBW: No limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Pass    |
| Band Edges Compliance                            | §2.1051,<br>§27.53(c)                       | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051,<br>§27.53(c)<br>§27.53(f)          | ≤ -13 dBm/100 kHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges. On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.<br>For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. | Pass    |
| Field Strength of Spurious Radiation             | §2.1053,<br>§27.53(c)<br>§27.53(f)          | FCC: ≤ -13 dBm/100 kHz.<br>For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.                                                                                                                                                                                                                                                           | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | Within authorized bands of operation/frequency block.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pass    |

**LTE Band 26(814~824 MHz)**

| Test Item                              | FCC Rule No.                                 | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Verdict |
|----------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Transmitter Conducted Power Output     | §2.1046,<br>§90.635(b)                       | < 100 W.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pass    |
| Peak-Average Ratio                     | ---                                          | Limit≤13 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Pass    |
| Modulation Characteristics             | §2.1047                                      | Digital modulation                                                                                                                                                                                                                                                                                                                                                                                                                                              | Pass    |
| Bandwidth                              | §2.1049                                      | OBW: No limit.<br>EBW: No limit.                                                                                                                                                                                                                                                                                                                                                                                                                                | Pass    |
| Emission Mask                          | §2.1051<br>§ 90.691(a)                       | For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50+10\log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. | Pass    |
| Spurious Emission at Antenna Terminals | §2.1051,<br>§90.691                          | < $43 + 10\log_{10}(P[\text{Watts}])$ for all out-of-band emissions                                                                                                                                                                                                                                                                                                                                                                                             | Pass    |
| Field Strength of Spurious Radiation   | §2.1053,<br>§90.691                          | < $43 + 10\log_{10}(P[\text{Watts}])$ for all out-of-band emissions                                                                                                                                                                                                                                                                                                                                                                                             | Pass    |
| Frequency Stability                    | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§90.213 | Within authorized bands of operation/frequency block.                                                                                                                                                                                                                                                                                                                                                                                                           | Pass    |

**LTE Band 66/ CA\_66B/ CA\_66C**

| Test Item                                        | FCC Rule No.                                | Requirements                                                                                                 | Verdict |
|--------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§27.50(d)(4)                    | EIRP ≤ 1 W                                                                                                   | Pass    |
| Peak-Average Ratio                               | §27.50(d)(5)                                | Limit≤13 dB                                                                                                  | Pass    |
| Modulation Characteristics                       | §2.1047                                     | Digital modulation                                                                                           | Pass    |
| Bandwidth                                        | §2.1049                                     | OBW: No limit.<br>EBW: No limit.                                                                             | Pass    |
| Band Edges Compliance                            | §2.1051,<br>§27.53(h)                       | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.                    | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051,<br>§27.53(h)                       | ≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges. | Pass    |
| Field Strength of Spurious Radiation             | §2.1053,<br>§27.53(h)                       | ≤ -13 dBm/1 MHz.                                                                                             | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | Within authorized bands of operation/frequency block.                                                        | Pass    |

**LTE Band 71**

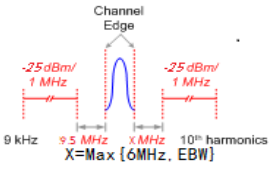
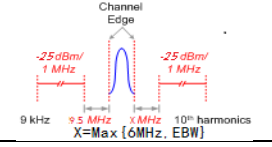
| Test Item                                        | FCC Rule No.                                | Requirements                                                                                                 | Verdict |
|--------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046<br>§27.50(c)(10)                    | ERP ≤ 3 W                                                                                                    | Pass    |
| Peak-Average Ratio                               | ---                                         | Limit ≤ 13 dB                                                                                                | Pass    |
| Modulation Characteristics                       | §2.1047                                     | Digital modulation                                                                                           | Pass    |
| Bandwidth                                        | §2.1049                                     | OBW: No limit.<br>EBW: No limit.                                                                             | Pass    |
| Band Edges Compliance                            | §2.1051,<br>§27.53(g)                       | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.                    | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051,<br>§27.53(g)                       | ≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges. | Pass    |
| Field Strength of Spurious Radiation             | §2.1053,<br>§27.53(g)                       | ≤ -13 dBm/1 MHz.                                                                                             | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | within the authorized bands of operation.                                                                    | Pass    |

**NR Band n5/ n26(824~849 MHz)**

| Test Item                                        | FCC Rule No.                                 | Requirements                                                                                                        | Verdict |
|--------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§22.913(a)(5)                    | FCC: ERP ≤ 7 W                                                                                                      | Pass    |
| Peak-Average Ratio                               | §22.913(d)                                   | Limit ≤ 13 dB                                                                                                       | Pass    |
| Modulation Characteristics                       | §2.1047                                      | Digital modulation                                                                                                  | Pass    |
| Bandwidth                                        | §2.1049                                      | OBW: No limit.<br>EBW: No limit.                                                                                    | Pass    |
| Band Edges Compliance                            | §2.1051,<br>§22.917(a)                       | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.                           | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051,<br>§22.917(a)                       | FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges. | Pass    |
| Field Strength of Spurious Radiation             | §2.1053,<br>§22.917(a)                       | FCC: ≤ -13 dBm/100 kHz.                                                                                             | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§22.355 | ≤ ±2.5ppm.                                                                                                          | Pass    |

**NR Band n41**

| Test Item                                        | FCC Rule No.             | Requirements                                                                                                                                                                                     | Verdict |
|--------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§27.50(h)(2) | EIRP ≤ 2W                                                                                                                                                                                        | Pass    |
| Peak-Average Ratio                               | ---                      | ≤ 13 dB                                                                                                                                                                                          | Pass    |
| Modulation Characteristics                       | §2.1047                  | Digital modulation                                                                                                                                                                               | Pass    |
| Bandwidth                                        | §2.1049                  | OBW: No limit.<br>EBW: No limit.                                                                                                                                                                 | Pass    |
| Band Edges Compliance                            | §2.1051,<br>§27.53(m4)   | For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) | Pass    |

| Test Item                              | FCC Rule No.                                | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Verdict |
|----------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|                                        |                                             | dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. |         |
| Spurious Emission at Antenna Terminals | §2.1051,<br>§27.53(m)                       |                                                                                                                                                                                                                                                                                                                                                                                                       | Pass    |
| Field Strength of Spurious Radiation   | §2.1053,<br>§27.53(m)                       |                                                                                                                                                                                                                                                                                                                                                                                                       | Pass    |
| Frequency Stability                    | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | Within authorized bands of operation/frequency block.                                                                                                                                                                                                                                                                                                                                                                                                                                   | Pass    |

**NR Band n2/n25**

| Test Item                                        | FCC Rule No.                                 | Requirements                                                                                                      | Verdict |
|--------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§24.232(c)                       | EIRP $\leq$ 2 W                                                                                                   | Pass    |
| Peak-Average Ratio                               | §24.232(d)                                   | Limit $\leq$ 13 dB                                                                                                | Pass    |
| Modulation Characteristics                       | §2.1047                                      | Digital modulation                                                                                                | Pass    |
| Bandwidth                                        | §2.1049                                      | OBW: No limit.<br>EBW: No limit.                                                                                  | Pass    |
| Band Edges Compliance                            | §2.1051,<br>§24.238(a)                       | $\leq$ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.                    | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051,<br>§24.238(a)                       | $\leq$ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges. | Pass    |
| Field Strength of Spurious Radiation             | §2.1053,<br>§24.238(a)                       | $\leq$ -13 dBm/1 MHz.                                                                                             | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§24.235 | Within authorized bands of operation/frequency block.                                                             | Pass    |

**NR Band n26(814~824 MHz)**

| Test Item                              | FCC Rule No.                                 | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Verdict |
|----------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Transmitter Conducted Power Output     | §2.1046,<br>§90.635(b)                       | < 100 W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pass    |
| Peak-Average Ratio                     | ---                                          | Limit $\leq$ 13 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Pass    |
| Modulation Characteristics             | §2.1047                                      | Digital modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Pass    |
| Bandwidth                              | §2.1049                                      | OBW: No limit.<br>EBW: No limit.                                                                                                                                                                                                                                                                                                                                                                                                                                              | Pass    |
| Emission Mask                          | §2.1051<br>§ 90.691(a)                       | For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log <sub>10</sub> (f/6.1) decibels or 50+10Log <sub>10</sub> (P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. | Pass    |
| Spurious Emission at Antenna Terminals | §2.1051,<br>§90.691                          | < 43 + 10Log <sub>10</sub> (P[Watts]) for all out-of-band emissions                                                                                                                                                                                                                                                                                                                                                                                                           | Pass    |
| Field Strength of Spurious Radiation   | §2.1053,<br>§90.691                          | < 43 + 10Log <sub>10</sub> (P[Watts]) for all out-of-band emissions                                                                                                                                                                                                                                                                                                                                                                                                           | Pass    |
| Frequency Stability                    | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§90.213 | Within authorized bands of operation/frequency block.                                                                                                                                                                                                                                                                                                                                                                                                                         | Pass    |

**NR Band n66**

| Test Item                                        | FCC Rule No.             | Requirements       | Verdict |
|--------------------------------------------------|--------------------------|--------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§27.50(d)(4) | EIRP $\leq$ 1 W    | Pass    |
| Peak-Average Ratio                               | §27.50(d)(5)             | Limit $\leq$ 13 dB | Pass    |
| Modulation Characteristics                       | §2.1047                  | Digital modulation | Pass    |
| Bandwidth                                        | §2.1049                  | OBW: No limit.     | Pass    |

| Test Item                              | FCC Rule No.                                | Requirements                                                                                                      | Verdict |
|----------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------|
|                                        |                                             | EBW: No limit.                                                                                                    |         |
| Band Edges Compliance                  | §2.1051,<br>§27.53(h)                       | $\leq -13$ dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.                    | Pass    |
| Spurious Emission at Antenna Terminals | §2.1051,<br>§27.53(h)                       | $\leq -13$ dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges. | Pass    |
| Field Strength of Spurious Radiation   | §2.1053,<br>§27.53(h)                       | $\leq -13$ dBm/1 MHz.                                                                                             | Pass    |
| Frequency Stability                    | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | Within authorized bands of operation/frequency block.                                                             | Pass    |

**NR Band n71**

| Test Item                                        | FCC Rule No.                                | Requirements                                                                                                      | Verdict |
|--------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046<br>§27.50(c)(10)                    | ERP $\leq 3$ W                                                                                                    | Pass    |
| Peak-Average Ratio                               | ---                                         | Limit $\leq 13$ dB                                                                                                | Pass    |
| Modulation Characteristics                       | §2.1047                                     | Digital modulation                                                                                                | Pass    |
| Bandwidth                                        | §2.1049                                     | OBW: No limit.<br>EBW: No limit.                                                                                  | Pass    |
| Band Edges Compliance                            | §2.1051,<br>§27.53(g)                       | $\leq -13$ dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.                    | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051,<br>§27.53(g)                       | $\leq -13$ dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges. | Pass    |
| Field Strength of Spurious Radiation             | §2.1053,<br>§27.53(g)                       | $\leq -13$ dBm/1 MHz.                                                                                             | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | within the authorized bands of operation.                                                                         | Pass    |

**NR Band n77****3700-3980MHz:**

| Test Item                                        | FCC Rule No.             | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Verdict |
|--------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§27.50(j)(3) | EIRP $\leq 1$ W                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pass    |
| Peak-Average Ratio                               | ---                      | $\leq 13$ dB                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Pass    |
| Modulation Characteristics                       | §2.1047                  | Digital modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Pass    |
| Bandwidth                                        | §2.1049                  | OBW: No limit.<br>EBW: No limit.                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pass    |
| Band Edges Compliance                            | §2.1051,<br>§27.53(l)(2) | (2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the | Pass    |

| Test Item                              | FCC Rule No.                                | Requirements                                                                                                                                                                                                                                                                      | Verdict |
|----------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|                                        |                                             | measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. |         |
| Spurious Emission at Antenna Terminals | §2.1051,<br>§27.53(l)(2)                    | not exceed -13 dBm/MHz.                                                                                                                                                                                                                                                           | Pass    |
| Field Strength of Spurious Radiation   | §2.1053,<br>§27.53(l)(2)                    | not exceed -13 dBm/MHz                                                                                                                                                                                                                                                            | Pass    |
| Frequency Stability                    | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | Within authorized bands of operation/frequency block.                                                                                                                                                                                                                             | Pass    |

**3450-3550MHz:**

| Test Item                                        | FCC Rule No.                                | Requirements                                                                                                                                                   | Verdict |
|--------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§27.50(k)(3)                    | EIRP ≤ 30dBm                                                                                                                                                   | Pass    |
| Peak-Average Ratio                               | §27.50(k)(4)                                | FCC: Limit ≤ 13 dB                                                                                                                                             | Pass    |
| Bandwidth                                        | §2.1049                                     | OBW: No limit.<br>EBW: No limit.                                                                                                                               | Pass    |
| Band Edges Compliance                            | §2.1051,<br>§27.50(n)(2)                    | For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051,<br>§27.50(n)(2)                    | For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. | Pass    |
| Field Strength of Spurious Radiation             | §2.1053,<br>§27.50(n)(2)                    | For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | Within authorized bands of operation/ frequency block.                                                                                                         | Pass    |

## USED EQUIPMENT

Conducted Test / TR7

| Instrument                                                    | Manufacturer | Model No.     | Serial No. | Cal. Date  | Next Cal. Date | Firmware Version | Software version |
|---------------------------------------------------------------|--------------|---------------|------------|------------|----------------|------------------|------------------|
| <b>LTE Test System</b>                                        |              |               |            |            |                |                  |                  |
| Wideband Radio Communication Tester                           | R&S          | CMW 500       | 170870     | 2025.05.10 | 2026.05.09     | X 4.0.62.11      | N/A              |
| Signal analyzer                                               | R&S          | FSV30         | 104212     | 2025.05.10 | 2026.05.09     | 3.40             | N/A              |
| ESG Vector Signal Generator                                   | Agilent      | E4438C        | MY49070163 | 2025.09.14 | 2026.09.13     | C.05.85          | N/A              |
| RF Control Unit                                               | Tonscend     | JS0806-1      | 168060022  | 2025.06.10 | 2026.06.09     | N/A              | N/A              |
| PSG Analog Signal Generator                                   | Agilent      | E8257D        | MY44321116 | 2025.05.10 | 2026.05.09     | C.06.27          | N/A              |
| Filter box                                                    | Tonscend     | N/A           | N/A        | 2025.03.15 | 2026.03.14     | N/A              | N/A              |
| <b>NR Test System</b>                                         |              |               |            |            |                |                  |                  |
| MXA Signal Analyzer                                           | Keysight     | N9020A        | MY56060147 | 2025.03.23 | 2026.03.22     | A.17.55          | N/A              |
| Universal Switch Control Unit                                 | Agilent      | N9370A        | MY46130177 | N/A        | N/A            | N/A              | N/A              |
| RF Interface Box                                              | Agilent      | N1960-80103   | MY45490191 | N/A        | N/A            | N/A              | N/A              |
| UXM 5G Wireless Test Platform                                 | Keysight     | E7515B        | MY58120445 | 2025.04.10 | 2026.04.09     | 1.5.8.24601      | N/A              |
| FR1 Switching Unit                                            | Keysight     | C8880A        | MY59270153 | N/A        | N/A            | N/A              | N/A              |
| 2.4mm to 3.5mm adapter                                        | Keysight     | 11901D        | 26793      | N/A        | N/A            | N/A              | N/A              |
| LOW-PROFILE MODULAR POWER SYSTEM MAINFRAME                    | Keysight     | N6700C        | MY56015129 | N/A        | N/A            | N/A              | N/A              |
| High and low temperature and fast temperature change test box | ASTUOD       | ASTD-FBT-225K | N/A        | 2025.03.16 | 2026.03.15     | N/A              | N/A              |
| Temperature/Humidity Meter                                    | RTS          | RTS-8S        | RF06       | 2025.06.17 | 2026.06.16     | N/A              | N/A              |
| Test Software                                                 | Tonscend     | JS1120        | JS1120-8   | N/A        | N/A            | N/A              | V3.1.46          |

Radiated Emissions (9kHz-40GHz) / AC6

| Instrument                     | Manufacturer | Model No. | Serial No.  | Cal. Date  | Next Cal. Date | Firmware Version | Software version |
|--------------------------------|--------------|-----------|-------------|------------|----------------|------------------|------------------|
| Signal analyzer                | R&S          | FSV30     | 104212      | 2025.05.10 | 2026.05.09     | A 08.54          | N/A              |
| Half Wave Tuned Dipole Antenna | COM-POWER    | AD-100    | 40137       | 2023.04.07 | 2026.04.06     | N/A              | N/A              |
| Horn Antenna                   | RFSPIN       | DRH18-E   | CE2C07A18EN | 2024.12.07 | 2025.12.06     | N/A              | N/A              |

|                            |             |                  |             |            |            |     |     |
|----------------------------|-------------|------------------|-------------|------------|------------|-----|-----|
| TRILOG Broadband Antenna   | SCHWARZBECK | VULB 9168        | 01231       | 2025.05.28 | 2026.05.27 | N/A | N/A |
| Pre-Amplifier              | XH          | LNA1845          | LNA23040284 | 2025.05.17 | 2026.05.16 | N/A | N/A |
| Pre-Amplifier              | SCHWARZBECK | BBV 9721         | 00114       | 2025.05.17 | 2026.05.16 | N/A | N/A |
| Loop Antenna               | R&S         | HFH2-Z2E         | 101149      | 2025.04.16 | 2026.04.15 | N/A | N/A |
| Coaxial Cable              | N/A         | N/A              | 2225        | 2025.06.10 | 2026.06.09 | N/A | N/A |
| Notch Filter               | Micro-mve   | MFN-2400.2485.S1 | AN0003N     | 2025.06.10 | 2026.06.09 | N/A | N/A |
| Temperature/Humidity Meter | RTS         | RTS-8S           | RF04        | 2025.06.17 | 2026.06.16 | N/A | N/A |
| Temperature/Humidity Meter | RTS         | RTS-8S           | RF08        | 2025.06.17 | 2026.06.16 | N/A | N/A |
| Test Software              | DEKRA       | Quietek EMI V3   | N/A         | N/A        | N/A        | N/A | 3   |

## UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%. The Uncertainties is comply with standard required as below.

| Test item                                              | Uncertainty                                                                                                                        |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| RF Output Power                                        | $\pm 1.2$ dB                                                                                                                       |
| Frequency Stability                                    | $\pm 10$ Hz                                                                                                                        |
| Occupied Bandwidth                                     | $\pm 10$ Hz                                                                                                                        |
| Spurious Emissions at antenna terminals                | $\pm 1.2$ dB                                                                                                                       |
| Spurious Emissions at antenna terminals at Block Edges | $\pm 1.2$ dB                                                                                                                       |
| Radiated Emission(30MHz~1GHz)                          | Horizontal: 30MHz~200MHz: 4.6 dB<br>200MHz~1GHz: 4.1 dB<br>Vertical: 30MHz~200MHz: 4.8 dB<br>200MHz~1GHz: 4.1 dB                   |
| Radiated Emission(1GHz~40GHz)                          | Horizontal: 1GHz~18GHz: 5.0 dB<br>Vertical: 1GHz~18GHz: 4.8 dB<br>Horizontal: 18GHz~40GHz: 4.7 dB<br>Vertical: 18GHz~40GHz: 4.6 dB |

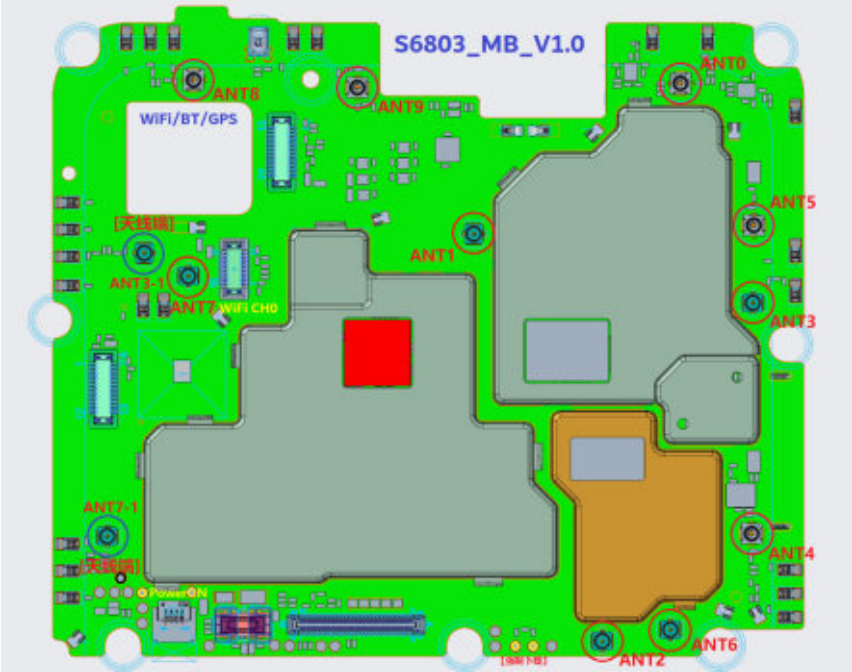
## 1 GENERAL INFORMATION

|                                      |                                                                                                                                                                                                                                                                                              |                                                    |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Product Name .....                   | 5G Smartphone                                                                                                                                                                                                                                                                                |                                                    |
| Model No. ....                       | Schok Volt SV69S                                                                                                                                                                                                                                                                             |                                                    |
| Trademark. ....                      | Schok                                                                                                                                                                                                                                                                                        |                                                    |
| FCC ID.....                          | 2AM9L-SV69S                                                                                                                                                                                                                                                                                  |                                                    |
| Manufacturer .....                   | Schok, LLC.                                                                                                                                                                                                                                                                                  |                                                    |
| Manufacturer Address .....           | 5850 Town and Country Blvd, Suite 203   Frisco, TX 75034                                                                                                                                                                                                                                     |                                                    |
| Hardware version. ....               | V1.0                                                                                                                                                                                                                                                                                         |                                                    |
| Software version.....                | SV69S4128_v01.01.25_USERDEBUG                                                                                                                                                                                                                                                                |                                                    |
| Test Matrix/ IMEI .....              | RF Conducted                                                                                                                                                                                                                                                                                 | 359782990004707/01                                 |
|                                      | RF Radiated                                                                                                                                                                                                                                                                                  | 359782990005001/01                                 |
| Power Supply .....                   | 3.87V/2A/20W from internal rechargeable battery which can be charged by AC/DC adapter.                                                                                                                                                                                                       |                                                    |
| Wireless specification .....         | LTE, NR                                                                                                                                                                                                                                                                                      |                                                    |
| Support Band(s) .....                | LTE                                                                                                                                                                                                                                                                                          | FDD Band 2/4/5/12/13/25/26/66/71<br>TDD Band 41    |
|                                      | NR                                                                                                                                                                                                                                                                                           | FDD NR Band 2/5/25/26/66/71<br>TDD NR Band 41/77   |
| Uplink.....                          | Band 2: 1850-1910 MHz<br>Band 4: 1710-1755 MHz<br>Band 5: 824-849 MHz<br>Band 12: 699-716 MHz<br>Band 13: 777-787 MHz<br>Band 25: 1850-1915 MHz<br>Band 26: 814-849 MHz<br>Band 66: 1710-1780 MHz<br>Band 71: 663-698 MHz<br>Band 41: 2496-2690 MHz<br>Band 77: 3450-3550 MHz, 3700-3980 MHz |                                                    |
| Downlink .....                       | Band 2: 1930-1990 MHz<br>Band 4: 2110-2155 MHz<br>Band 5: 869-894 MHz<br>Band 12: 729-746 MHz<br>Band 13: 746-756 MHz<br>Band 25: 1930-1995 MHz<br>Band 26: 859-894 MHz<br>Band 66: 2110-2200 MHz<br>Band 71: 617-652 MHz<br>Band 41: 2496-2690 MHz<br>Band 77: 3450-3550 MHz, 3700-3980 MHz |                                                    |
| SCS and Channel Bandwidth(MHz) ..... | LTE Band 2                                                                                                                                                                                                                                                                                   | 1.4 MHz / 3 MHz / 5 MHz / 10 MHz / 15 MHz / 20 MHz |
|                                      | LTE Band 4                                                                                                                                                                                                                                                                                   | 1.4 MHz / 3 MHz / 5 MHz / 10 MHz / 15 MHz / 20 MHz |
|                                      | LTE Band 5                                                                                                                                                                                                                                                                                   | 1.4 MHz / 3 MHz / 5 MHz / 10 MHz                   |
|                                      | LTE Band 12                                                                                                                                                                                                                                                                                  | 1.4 MHz / 3 MHz / 5 MHz / 10 MHz                   |
|                                      | LTE Band 13                                                                                                                                                                                                                                                                                  | 5 MHz / 10 MHz                                     |
|                                      | LTE Band 25                                                                                                                                                                                                                                                                                  | 1.4 MHz / 3 MHz / 5 MHz / 10 MHz / 15 MHz / 20 MHz |

|                          |                                                                                                                                                                                                                |                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
|                          | LTE Band 26                                                                                                                                                                                                    | 1.4 MHz / 3 MHz / 5 MHz / 10 MHz / 15 MHz                                                                  |
|                          | LTE Band 41                                                                                                                                                                                                    | 5 MHz / 10 MHz / 15 MHz / 20 MHz                                                                           |
|                          | LTE Band 66                                                                                                                                                                                                    | 1.4 MHz / 3 MHz / 5 MHz / 10 MHz / 15 MHz / 20 MHz                                                         |
|                          | LTE Band 71                                                                                                                                                                                                    | 5 MHz / 10 MHz / 15 MHz / 20 MHz                                                                           |
|                          | n2_SCS 15kHz                                                                                                                                                                                                   | 5 MHz / 10 MHz / 15 MHz / 20 MHz / 25 MHz / 30 MHz / 40 MHz                                                |
|                          | n5_SCS 15kHz                                                                                                                                                                                                   | 5 MHz / 10 MHz / 15 MHz / 20 MHz                                                                           |
|                          | n25_SCS 15kHz                                                                                                                                                                                                  | 5 MHz / 10 MHz / 15 MHz / 20 MHz / 25 MHz / 30 MHz / 40 MHz                                                |
|                          | N26_SCS 15kHz                                                                                                                                                                                                  | 5 MHz / 10 MHz / 15 MHz / 20 MHz                                                                           |
|                          | n66_SCS 15kHz                                                                                                                                                                                                  | 5 MHz / 10 MHz / 15 MHz / 20 MHz / 25 MHz / 30 MHz / 40 MHz                                                |
|                          | n71_SCS 15kHz                                                                                                                                                                                                  | 5 MHz / 10 MHz / 15 MHz / 20 MHz                                                                           |
|                          | n41_SCS 30kHz                                                                                                                                                                                                  | 10 MHz / 15 MHz / 20 MHz / 25 MHz / 30 MHz / 40 MHz / 50 MHz / 60 MHz / 70 MHz / 80 MHz / 90 MHz / 100 MHz |
|                          | n77_SCS 30kHz                                                                                                                                                                                                  | 10 MHz / 15 MHz / 20 MHz / 25 MHz / 30 MHz / 40 MHz / 50 MHz / 60 MHz / 70 MHz / 80 MHz / 90 MHz / 100 MHz |
| LTE UL CA .....          | 12A-66A;13A-66A;2A-12A;2A-13A;2A-4A;2A-5A;2A-66A;2A-71A;2C;41C;4A-12A;4A-13A;4A-5A;4A-71A;5A-66A;66A-71A;66B;66C;NR CA:41A-n77A;2A-n77A;5A-n77A;13A-n77A;66A-n77A;12A-N77a                                     |                                                                                                            |
| ENDC .....               | DC_2A_n5A; DC_2A_n41A; DC_2A_n66A; DC_2A_n71A; DC_2A_n77A; DC_5A_n2A; DC_5A_n66A; DC_5A_n77A; DC_12A_n66A; DC_13A_n2A; DC_13A_n66A; DC_13A_n77A; DC_41A_n77A; DC_66A_n2A; DC_66A_n5A; DC_66A_n41A; DC_66A_n71A |                                                                                                            |
| Type of Modulation ..... | DFT-s-OFDM Pi/2 BPSK<br>DFT-s-OFDM QPSK<br>DFT-s-OFDM 16QAM<br>DFT-s-OFDM 64QAM<br>DFT-s-OFDM 256QAM<br>CP-OFDM QPSK<br>CP-OFDM 16QAM<br>CP-OFDM 64QAM<br>CP-OFDM 256QAM                                       |                                                                                                            |
| Antenna Type .....       | PIFA                                                                                                                                                                                                           |                                                                                                            |

## Remark:

- As above information is provided and confirmed by the applicant. DEKRA is not liable to the accuracy, suitability, reliability or/and integrity of the information.

| Antenna port                                                                        | Band NO. |    | Frequency (Uplink) | Antenna Gain(dBi) |                                                                                              |       |      |       |
|-------------------------------------------------------------------------------------|----------|----|--------------------|-------------------|----------------------------------------------------------------------------------------------|-------|------|-------|
|                                                                                     | LTE      | NR |                    | ANT0              | ANT2                                                                                         | ANT3  | ANT4 | ANT5  |
| WWAN FDD                                                                            | 2        | 2  | 1850-1910 MHz      | /                 | 0.39                                                                                         | -1.8  | /    | /     |
|                                                                                     | 4        | /  | 1710-1755 MHz      | /                 | 0.3                                                                                          | -4.37 | /    | /     |
|                                                                                     | 5        | 5  | 824-849 MHz        | -4.07             | /                                                                                            | /     | /    | /     |
|                                                                                     | 12       | /  | 699-716 MHz        | -3.54             | /                                                                                            | /     | /    | /     |
|                                                                                     | 13       | /  | 777-787 MHz        | -4.12             | /                                                                                            | /     | /    | /     |
|                                                                                     | 25       | 25 | 1850-1915 MHz      | /                 | 0.39                                                                                         | -1.8  | /    | /     |
|                                                                                     | 26       | 26 | 814-849 MHz        | -4.07             | /                                                                                            | /     | /    | /     |
|                                                                                     | 66       | 66 | 1710-1780 MHz      | /                 | 0.3                                                                                          | -4.37 | /    | /     |
|                                                                                     | 71       | 71 | 663-698 MHz        | -3.66             | /                                                                                            | /     | /    | /     |
| WWAN TDD                                                                            | 41       | 41 | 2496-2690 MHz      | /                 | 0.01                                                                                         | /     | 0.41 |       |
|                                                                                     | /        | 77 | 3300-4200 MHz      | /                 | /                                                                                            | /     | /    | -0.09 |
|  |          |    |                    | ANT0              | 4G: TRX: B5,B12.B26.B71 .B13<br>DRX:B2,B4.B25.B66.<br>5G: TRX:n5,n26.n71<br>DRX:n2,n25,n66   |       |      |       |
|                                                                                     |          |    |                    | ANT1              | 4G: DRX: B5,B12.B26.B71 .B13,<br>DM: B2,B4.B25.B66<br>5G: DRX: n5,n26.n71,<br>DM: n2,n25,n66 |       |      |       |
|                                                                                     |          |    |                    | ANT2              | 4G: PM(ENDC TX1): B2,B4.B25.B66,B41<br>5G: PM: n2,n25,n66,n41                                |       |      |       |
|                                                                                     |          |    |                    | ANT3              | 4G: TRX: B2,B4.B25.B66,B41(DRX)<br>5G: TRX: n2,n25,n66,n41(SA DRX)                           |       |      |       |
|                                                                                     |          |    |                    | ANT4              | 4G: TRX: B41<br>5G: TRX: n41(SA TRX), DRX:n77                                                |       |      |       |
|                                                                                     |          |    |                    | ANT5              | 5G: TRX: n77                                                                                 |       |      |       |
|                                                                                     |          |    |                    | ANT6              | 4G: DM: B41<br>5G: DM: n41,n77                                                               |       |      |       |
|                                                                                     |          |    |                    | ANT7              | WIFI+BT                                                                                      |       |      |       |
|                                                                                     |          |    |                    | ANT8              | WIFI +GPS                                                                                    |       |      |       |



|                                                                                                                                                                                                     |      |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------|
|                                                                                                                                                                                                     | ANT9 | 5G: PM: n77 |
| Note:<br>TRX: Transmitter-Receiver<br>DRX: Diversity Receive<br>PM: Primary MIMO Path<br>DM: Diversity MIMO Path<br>ANT port 3-1 and 7-1 are only for factory use only and are not RF signal ports. |      |             |

Remark:

As above information is provided and confirmed by the applicant. DEKRA is not liable to the accuracy, suitability, reliability or/and integrity of the information.

## 2 DESCRIPTION OF TEST SETUP

| Auxiliary equipment                                         | Type / Version | Manufacturer | Supplied by |
|-------------------------------------------------------------|----------------|--------------|-------------|
| Wideband Radio Communication Tester                         | CMW 500        | R&S          | 230Vac      |
| UXM 5G Base Wireless Test Platform                          | E7515B         | Keysight     | 230Vac      |
| Radio Communication Test Station                            | MT8000A        | Anritsu      | 230Vac      |
| Radio Communication Analyzer                                | MT8821C        | Anritsu      | 230Vac      |
| Software                                                    | Type / Version | Manufacturer | Supplied by |
| CMW 500 / Anritsu MT8000 / Anritsu MT8821 / Keysight E7515B | N/A            | N/A          | N/A         |

| Accessories Information | Cable                          |                                     |                          |
|-------------------------|--------------------------------|-------------------------------------|--------------------------|
|                         | Length used during test<br>[m] | Attached during<br>test             | Shielded                 |
| N/A                     | 1                              | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| N/A                     | 8                              | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Note1 : Regards to the frequency band operation: the middle frequency channel were selected to perform the test, then shown on this report.

Note 2: For portable device, radiated tests was verified over X, Y, Z axis, and shown the worst case on this report.

### 3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

#### 3.1 Standards

| Standard                 | Year | Description                                                                                                  |
|--------------------------|------|--------------------------------------------------------------------------------------------------------------|
| FCC CFR Title 47 Part 2  | 2024 | Frequency Allocations and Radio Treaty Matters; General Rules and Regulations                                |
| FCC CFR Title 47 Part 22 | 2024 | Public Mobile Services                                                                                       |
| FCC CFR Title 47 Part 24 | 2024 | Personal Communications Services                                                                             |
| FCC CFR Title 47 Part 27 | 2024 | Miscellaneous Wireless Communications Services                                                               |
| FCC CFR Title 47 Part 90 | 2024 | PRIVATE LAND MOBILE RADIO SERVICES                                                                           |
| ANSI C63.26              | 2015 | American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services            |
| ANSI TIA-603-E           | 2016 | Land Mobile FM or PM Communications Equipment Measurement and performance Standards                          |
| KDB971168 D01 v03r01     | 2018 | Measurement Guidance for Certification of Licensed Digital Transmitters                                      |
| KDB971168 D02 v02r01     | 2023 | Miscellaneous and Basic Review and Approval Items for Transmitting Equipment Used in Licensed Radio Services |

#### 3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

*(Please define the deviations from the standard(s) if applicable)*

## 4 TEST RESULTS

### 4.1 Effective (Isotropic) Radiated Power Output

**VERDICT: PASS**

#### 4.1.1 Limit

**Standard:** FCC § 2.1046 & 22.913(a) & 24.232(c) & 27.50(a) & 27.50(b) & 27.50(c) & 27.50(d) & 27.50(h) & 27.50(j) & 27.50(k) & 90.635(b) & 90.542(a)

According to FCC section 22.913(a) (5), the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50(a) (3), for mobile and portable stations transmitting in the 2305-2315MHz band or the 2350-2360MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards.

FCC section 27.50(b) (10), portable stations (hand-held devices) transmitting in the 746-757MHz, 776- 788MHz, and 805-806MHz bands are limited to 3 watts ERP.

FCC section 27.50(c) (10), portable stations (hand-held devices) in the 600MHz uplink band and the 698- 746MHz band, and fixed and mobile stations in the 600MHz uplink band are limited to 3 watts ERP.

FCC section 27.50(d) (4), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(7) Fixed, mobile, and portable (hand-held) stations operating in the 2000-2020 MHz band are limited to 2 watts EIRP.

And FCC section 27.50(h) (2), for mobile and other user stations, mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

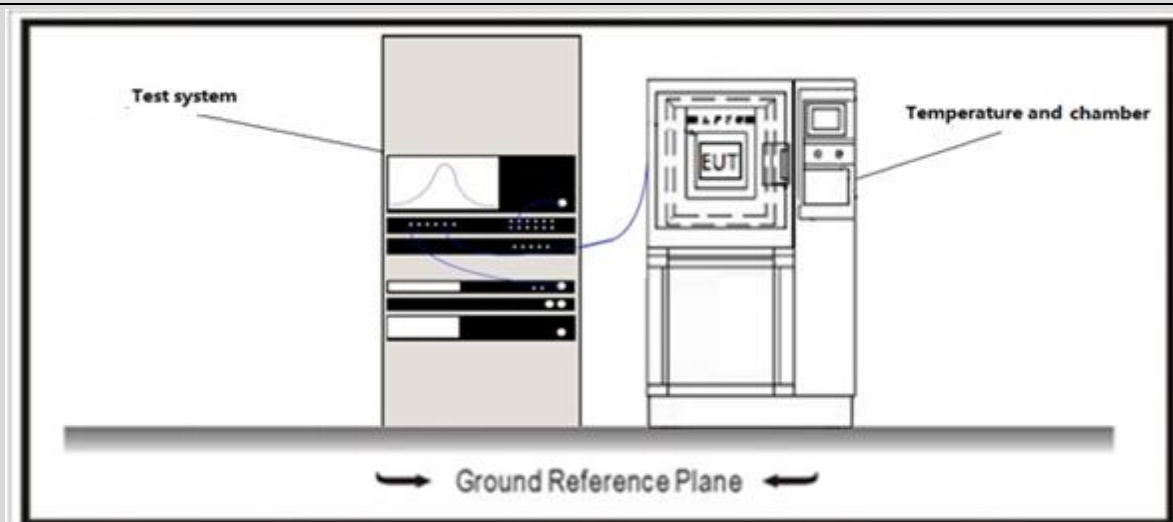
FCC section 27.50(j) (3), for mobile, and portable (hand-held) stations operating in the 3700-3980 MHz band are limited to 1 watt EIRP.

FCC section 27.50(k) (3), Mobile devices are limited to 1Watt (30 dBm) EIRP in the 3450-3550 MHz band.

According to FCC section 90.635(b), the maximum output power of the transmitter for mobile stations is 100 watts (20dBW).

According to FCC section 90.542(a) (7), portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

#### 4.1.2 Test Setup



**4.1.3 Test Procedure**

|                                     | References Rule  | Chapter | Item                                   |
|-------------------------------------|------------------|---------|----------------------------------------|
| <input checked="" type="checkbox"/> | ANSI C63.26-2015 | 5.2     | RF output power measurement procedures |

The conducted RF Output Power measurements were made at the RF output terminals of the EUT using the power meter of the Universal Radio Communication tester R&S CMW500, selecting maximum transmission power of the EUT and different modes of modulation.

Peak to average ratio(PAPR) is used equation  $PAPR(dB) = PPK(dBm) - PAVG(dBm)$ , where PPK is measured peak power, and PAVG is measured average power.

The maximum equivalent isotropically radiated power(e.i.r.p.) is calculated by adding the declared maximum antenna gain(dBi).

The maximum effective radiated power e.r.p. is calculated form the maximum equivalent isotropically radiated power(e.i.r.p.) by subtracting 2.15 dB:  $E.R.P = E.I.R.P. - 2.15 \text{ dB}$

## 4.2 Peak-to-Average Ratio(CCDF)

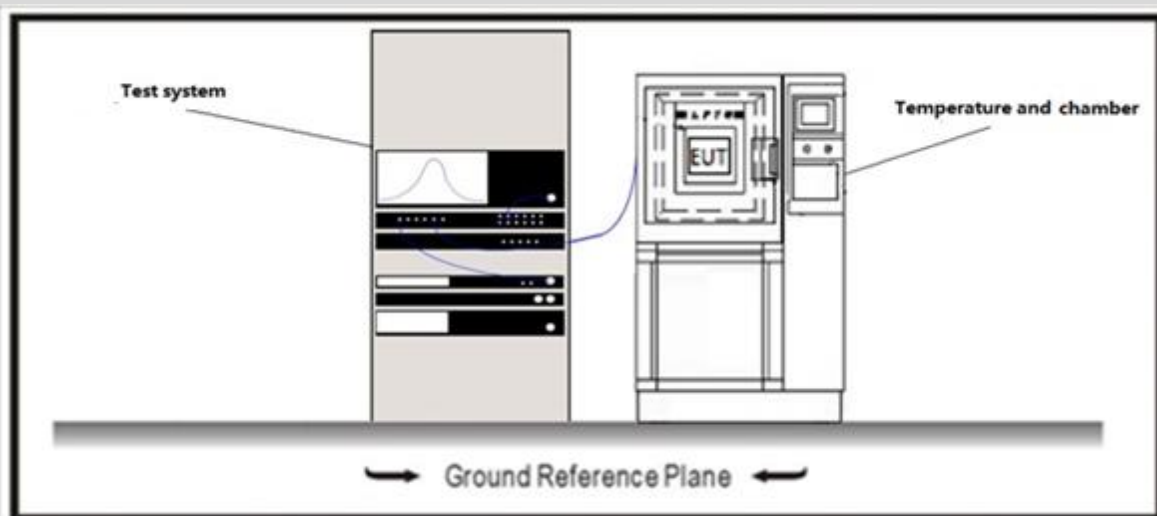
**VERDICT: PASS**

### 4.2.1 Limit

**Standard: FCC** §22.913(d), §24.232(d), §27.50(d)(5)

Limit ≤ 13 dB

### 4.2.2 Test Setup



### 4.2.3 Test Procedure

|                                     | References Rule  | Chapter | Item                                   |
|-------------------------------------|------------------|---------|----------------------------------------|
| <input checked="" type="checkbox"/> | ANSI C63.26-2015 | 5.2     | RF output power measurement procedures |

The conducted RF Output Power measurements were made at the RF output terminals of the EUT using the power meter of the Universal Radio Communication tester R&S CMW500, selecting maximum transmission power of the EUT and different modes of modulation.

Peak to average ratio(PAPR) is used equation  $PAPR(dB) = PPK(dBm) - PAVG(dBm)$ , where PPK is measured peak power, and PAVG is measured average power.

The maximum equivalent isotropically radiated power(e.i.r.p.) is calculated by adding the declared maximum antenna gain(dBi).

The maximum effective radiated power e.r.p. is calculated form the maximum equivalent isotropically radiated power(e.i.r.p.) by subtracting 2.15 dB:  $E.R.P = E.I.R.P. - 2.15 \text{ dB}$

### 4.3 Frequency Stability

**VERDICT: PASS**

#### 4.3.1 Limit

**Standard:** FCC §2.1055(a)(1)(b), §2.1055(d)(1), §22.355, §24.235, §27.54, §90.213

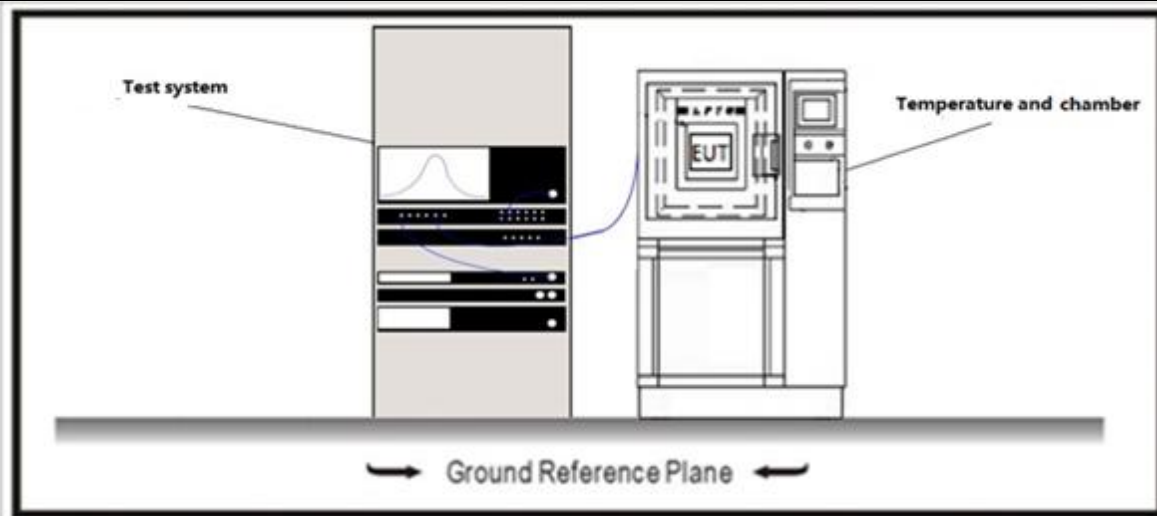
 §22.355:  $\leq \pm 2.5\text{ppm}$ .

§24.235: Within authorized bands of operation/frequency block.

§27.54: Within authorized bands of operation/frequency block.

§90.213: Within authorized bands of operation/frequency block.

#### 4.3.2 Test Setup



#### 4.3.3 Test Procedure

|                                     | References Rule | Chapter | Description                 |
|-------------------------------------|-----------------|---------|-----------------------------|
| <input checked="" type="checkbox"/> | ANSI C63.26     | 5.6     | Frequency stability testing |

The frequency tolerance measurements over temperature variations were made over temperature range of  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ . The EUT was placed inside an environmental temperature chamber and the temperature was lowered hourly in  $10^{\circ}\text{C}$  steps from  $+50^{\circ}\text{C}$  to  $-30^{\circ}\text{C}$ .

The supply voltage was varied between 85% and 115% of nominal voltage.

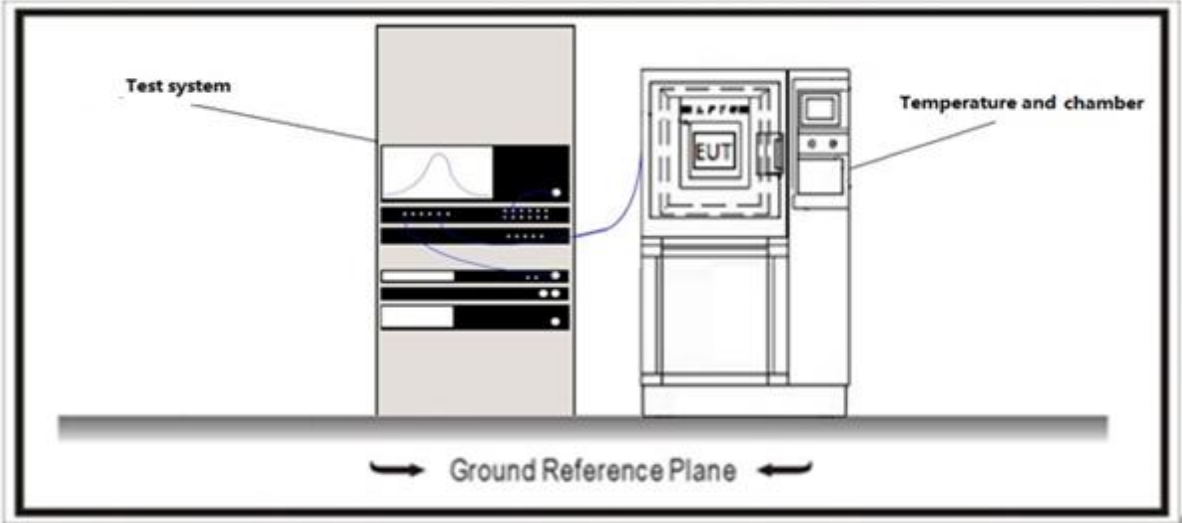
The EUT was set in "Radio Resource Control (RRC) mode" in the middle channel using the Universal Radio Communication tester R&S CMW500 and the maximum frequency error was measured using the built-in calibrated frequency meter. The worst case NB-IoT mode for conducted power was used for the test.

In order to check that the frequency stability is sufficient such that the fundamental emissions stay within the authorized bands of operation, a reference point is established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation are identified as fL and fH respectively. The worst-case frequency offset determined in the above methods is added or subtracted from the values of fL and fH to check that the resulting frequencies remain within the band.

The reference point measurements were made at the RF output terminals of the EUT using a directional coupler and spectrum analyser. The EUT was controlled via the Universal Radio Communication tester R&S CMW500 selecting maximum transmission power of the EUT and different modes of modulation.

|                        |               |
|------------------------|---------------|
| 4.4 Occupied Bandwidth | VERDICT: PASS |
|------------------------|---------------|

|                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.4.1 Limit                                                                                                                                                                                                                                                          |
| Standard                                                                                                                                                                                                                                                             |
| FCC §2.1049: The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. |

|                                                                                     |
|-------------------------------------------------------------------------------------|
| 4.4.2 Test Setup                                                                    |
|  |

| 4.4.3 Test Procedure                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |         |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|--------------------|
| References Rule                                                                                                                                                                                                                                                                                                                                                                                                                                        |             | Chapter | Description        |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                    | ANSI C63.26 | 5.4     | Occupied bandwidth |
| The occupied bandwidth measurement was performed at the output terminals of the EUT using directional coupler and spectrum analyser. The EUT was controller via the Universal Radio Communication tester R&S CMW500 selecting maximum transmission power of the EUT and different modes of modulation. The 99% occupied bandwidth and the -26 dBc bandwidth were measured directly using the built-in bandwidth measuring option of spectrum analyser. |             |         |                    |

## 4.5 Spurious Emissions at antenna terminals

VERDICT: PASS

### 4.5.1 Limit

**Standard:** FCC §2.1051, FCC §22.917(a), §24.238(a), §27.53(h), §27.53(m), §27.53(g), §27.53(c), §27.53(f), §90.691,

FCC §2.1051:

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna.

FCC §22.917(a) , §27.53(g):

$\leq -13$  dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges..

FCC §24.238(a), §27.53(h):

$\leq -13$  dBm/1 MHz, from 9 kHz to 10<sup>th</sup> harmonics but outside authorized operating frequency ranges.

FCC §27.53(l)(2):

not exceed -13 dBm/MHz.

FCC §27.50(n)(2):

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

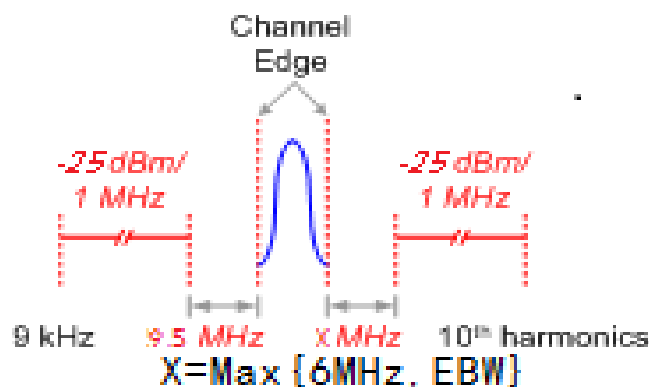
§27.53(c), §27.53(f):

$\leq -13$  dBm/100 kHz, from 9 kHz to 10<sup>th</sup> harmonics but outside authorized operating frequency ranges.

On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $65 + 10 \log(P)$  dB in a 6.25 kHz band segment, for mobile and portable stations.

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

FCC §27.53(m):

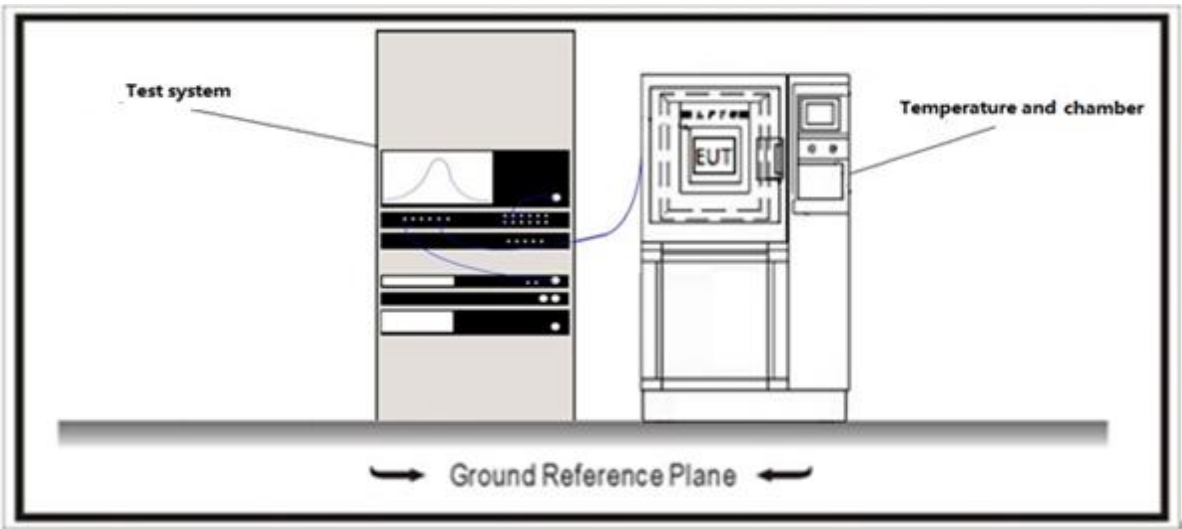


FCC § 90.691(a):

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \log_{10}(f/6.1)$  decibels or  $50 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

4.5.2 Test Setup



4.5.3 Test Procedure

| References Rule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | Chapter | Description                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|-----------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ANSI C63.26 | 5.7     | Unwanted (out-of-band and spurious) conducted emissions measurement procedures (conducted test at antenna port) |
| <p>The EUT RF output connector was connected to a spectrum analyser and to the Universal Radio Communication tester R&amp;S CMW500 (selecting maximum transmission power of the EUT and different modes of modulation) using directional coupler.</p> <p>The spectrum was investigated from 9 kHz to the 10th harmonic of the highest frequency generated within the equipment.</p> <p>The reading of the spectrum analyser is corrected with the attenuation loss of connection between output terminal of EUT and input of the spectrum analyser.</p> <p>According to specification, the power of emissions shall be attenuated below the transmitter power (P) by a factor of at least <math>X + 10 \log (P)</math> dB. P in watts. The specification can be interpreted as an absolute limit when the specified attenuation is actually subtracted from the maximum permissible transmitter power [i.e., <math>10 \log P - \{X + 10 \log P\}</math>], resulting in an absolute level of -X dBW [or <math>(-X + 30)</math> dBm].</p> <p>The configuration of tones and modulation which is the worst case for conducted power was used.</p> |             |         |                                                                                                                 |

## 4.6 Spurious Emissions at antenna terminals at Block Edges

**VERDICT: PASS**

### 4.6.1 Limit

**Standard :** FCC §2.1051, §22.917, §24.238(a), §27.53(c), §27.53(g), §27.53(h), §27.53(m4), § 90.691(a)

FCC §2.1051:

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna.

FCC §22.917, §24.238(a), §27.53(c), §27.53(g), §27.53(h):

$\leq -13 \text{ dBm/1\%EBW}$ , in 1 MHz bands immediately outside and adjacent to the frequency block.

FCC §27.53(m4):

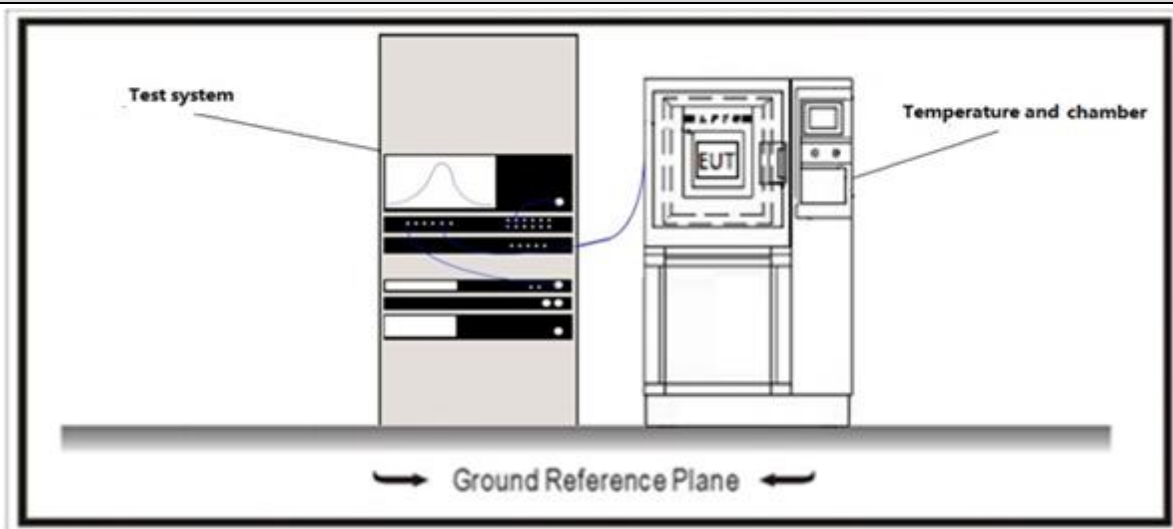
For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz.

FCC § 90.691(a):

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \log_{10}(f/6.1)$  decibels or  $50 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

### 4.6.2 Test Setup



#### 4.6.3 Test Procedure

|                                     | References Rule | Chapter | Description                                                                                                     |
|-------------------------------------|-----------------|---------|-----------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | ANSI C63.26     | 5.7     | Unwanted (out-of-band and spurious) conducted emissions measurement procedures (conducted test at antenna port) |

The EUT RF output connector was connected to a spectrum analyser and to the Universal Radio Communication tester R&S CMW500 (selecting maximum transmission power of the EUT and different modes of modulation) using directional coupler.

The reading of the spectrum analyser is corrected with the attenuation loss of connection between output terminal of EUT and input of the spectrum analyser.

For NB-IoT Band 5/26: For §22, in the 1 MHz bands immediately outside and adjacent to the frequency block or band, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. For §90, use RBW = 300 Hz for offsets less than 37.5 kHz from a channel edge; RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.

For NB-IoT Band 2/25: In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

For NB-IoT Band 12/17/71/85: In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

For NB-IoT Band 13: On any frequency outside the 746-758 MHz band and 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed; on all frequencies between 763-775 MHz and 793-805 MHz, any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25KHz segment.

For NB-IoT Band 4/66: In the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

According to specification, the power of emissions shall be attenuated below the transmitter power (P) by a factor of at least  $X + 10 \log (P)$  dB. P in watts. The specification can be interpreted as an absolute limit when the specified attenuation is actually subtracted from the maximum permissible transmitter power [i.e.,  $10 \log P - \{X + 10 \log P\}$ ], resulting in an absolute level of -X dBW [or  $(-X + 30)$  dBm].

## 4.7 Radiated Emissions

**VERDICT: PASS**

### 4.7.1 Limit

**Standard:** FCC § 2.1053 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(i) & 27.53(m) & 27.53(n) & 90.691 & 90.543

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than:  $43 + 10 \log(P)$  dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log(P)$  dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than  $61 + 10 \log(P)$  dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than  $67 + 10 \log(P)$  dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2300 and 2305MHz,  $55 + 10 \log(P)$  dB on all frequencies between 2296 and 2300MHz,  $61 + 10 \log(P)$  dB on all frequencies between 2292 and 2296MHz,  $67 + 10 \log(P)$  dB on all frequencies between 2288 and 2292MHz, and  $70 + 10 \log(P)$  dB below 2288MHz.

(3) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2360 and 2365MHz, and not less than  $70 + 10 \log(P)$  dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $76 + 10 \log(P)$  dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $65 + 10 \log(P)$  dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment. FCC § 27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log(P)$  dB.

FCC § 27.53(i) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC §27.53(m) (4)

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$  dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$  dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$  dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FCC §27.53(n) (2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC §90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \log_{10}(f/6.1)$  decibels or  $50 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC §90.543

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than  $76 + 10 \log (P)$  dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations.

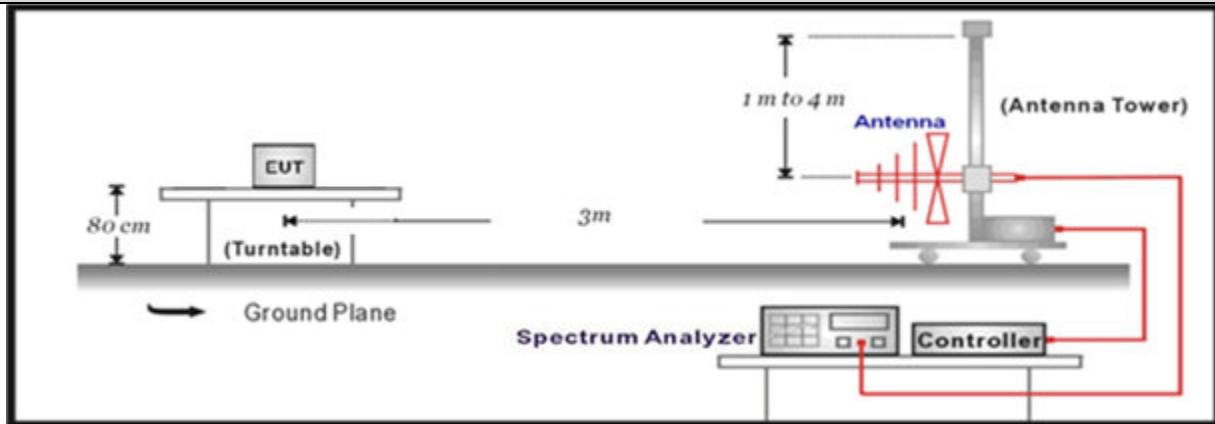
(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least  $43 + 10 \log (P)$  dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

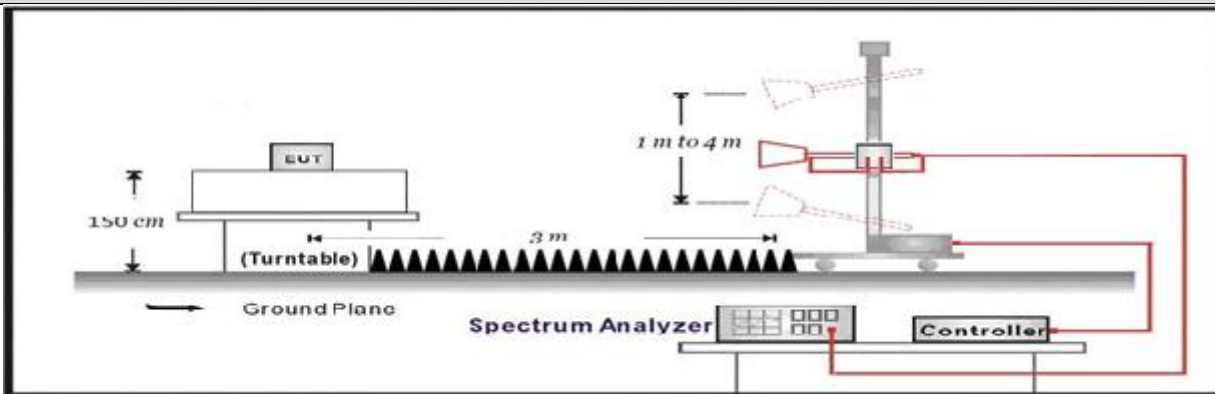
(f) For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

## 4.7.2 Test Setup

### 30MHz-1GHz Test Setup:



### Above 1GHz Test Setup:



#### 4.7.3 Test Procedure

|                                     | Reference Rule | Chapter | Description                |
|-------------------------------------|----------------|---------|----------------------------|
| <input checked="" type="checkbox"/> | ANSI C63.26    | 5.5     | Radiated emissions testing |

The spectrum was scanned from 9 kHz to the 10th harmonic of the highest frequency generated within the equipment.

Emissions below 18 GHz were measured at a 3 meter test distance.

The EUT was tested in three orthogonal axes and in all possible test configurations and poisoning when measurement antenna is oriented in both horizontal and vertical polarization, the worst case emissions was showed in the report.

Radiated emissions were used the substitution method described in ANSI/TIA-603-E-2016.

Radiated emissions were measured with 100kHz RBW below 1GHz and 1MHz RBW above 1GHz.

According to specification, the power of emissions shall be attenuated below the transmitter power (P) by a factor of at least  $X + 10 \log (P)$  dB. P in watts. The specification can be interpreted as an absolute limit when the specified attenuation is actually subtracted from the maximum permissible transmitter power [i.e.,  $10 \log P - \{X + 10 \log P\}$ ], resulting in an absolute level of -X dBW [or  $(-X + 30)$  dBm].



|                                    |               |
|------------------------------------|---------------|
| 4.8 Test setup photo and EUT Photo | VERDICT: PASS |
|------------------------------------|---------------|

Remark: The test setup photo and EUT Photo please see appendix.

## Test data of Field Strength of Spurious Radiation

LTE band2 Traffic 1880MHz

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3760.00         | 40.7           | -66.97      | -107.630      | -13.00      | 53.97       | Horizontal | PAS     |
| 2         | 5640.00         | 38.6           | -62.43      | -101.070      | -13.00      | 49.43       | Horizontal | PAS     |
| 3         | 7520.00         | 35.2           | -61.79      | -97.000       | -13.00      | 48.79       | Horizontal | PAS     |
| 4         | 9400.00         | 33.9           | -60.24      | -94.130       | -13.00      | 47.24       | Horizontal | PAS     |
| 5         | 11280.00        | 32.1           | -56.12      | -88.170       | -13.00      | 43.12       | Horizontal | PAS     |
| 6         | 14217.50        | 30.1           | -54.89      | -84.970       | -13.00      | 41.89       | Horizontal | PAS     |

LTE band2 Traffic 1880MHz

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3760.00         | 41.0           | -66.66      | -107.630      | -13.00      | 53.66       | Vertical | PAS     |
| 2         | 4676.88         | 55.6           | -48.53      | -104.170      | -13.00      | 35.53       | Vertical | PAS     |
| 3         | 5664.38         | 42.3           | -58.75      | -101.020      | -13.00      | 45.75       | Vertical | PAS     |
| 4         | 7520.00         | 35.4           | -61.59      | -97.000       | -13.00      | 48.59       | Vertical | PAS     |
| 5         | 9400.00         | 34.7           | -59.47      | -94.130       | -13.00      | 46.47       | Vertical | PAS     |
| 6         | 11280.00        | 31.8           | -56.41      | -88.170       | -13.00      | 43.41       | Vertical | PAS     |

LTE band4 Traffic 1732.5MHz

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3465.00         | 43.3           | -65.88      | -109.190      | -13.00      | 52.88       | Horizontal | PAS     |
| 2         | 5197.50         | 37.3           | -65.11      | -102.380      | -13.00      | 52.11       | Horizontal | PAS     |
| 3         | 6930.00         | 36.1           | -60.89      | -97.010       | -13.00      | 47.89       | Horizontal | PAS     |
| 4         | 8662.50         | 35.0           | -60.49      | -95.510       | -13.00      | 47.49       | Horizontal | PAS     |
| 5         | 10395.00        | 33.3           | -58.73      | -92.050       | -13.00      | 45.73       | Horizontal | PAS     |
| 6         | 12127.50        | 30.0           | -58.92      | -88.870       | -13.00      | 45.92       | Horizontal | PAS     |

LTE band4 Traffic 1732.5MHz

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3465.00         | 41.6           | -67.60      | -109.190      | -13.00      | 54.60       | Vertical | PAS     |
| 2         | 5197.50         | 37.4           | -64.98      | -102.380      | -13.00      | 51.98       | Vertical | PAS     |
| 3         | 6930.00         | 36.8           | -60.18      | -97.010       | -13.00      | 47.18       | Vertical | PAS     |
| 4         | 8662.50         | 35.4           | -60.08      | -95.510       | -13.00      | 47.08       | Vertical | PAS     |
| 5         | 10395.00        | 33.5           | -58.57      | -92.050       | -13.00      | 45.57       | Vertical | PAS     |
| 6         | 12127.50        | 30.3           | -58.55      | -88.870       | -13.00      | 45.55       | Vertical | PAS     |

LTE band5 Traffic 836.5MHz

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 1673.00         | 49.3           | -67.69      | -116.950      | -13.00      | 54.69       | Horizontal | PAS     |
| 2         | 2509.50         | 48.4           | -64.55      | -112.960      | -13.00      | 51.55       | Horizontal | PAS     |
| 3         | 3346.00         | 48.1           | -62.39      | -110.530      | -13.00      | 49.39       | Horizontal | PAS     |
| 4         | 4182.50         | 45.5           | -61.37      | -106.840      | -13.00      | 48.37       | Horizontal | PAS     |
| 5         | 5019.00         | 43.8           | -59.25      | -103.020      | -13.00      | 46.25       | Horizontal | PAS     |
| 6         | 5855.50         | 42.0           | -58.61      | -100.570      | -13.00      | 45.61       | Horizontal | PAS     |

LTE band5 Traffic 836.5MHz

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 1673.00         | 50.0           | -66.94      | -116.950      | -13.00      | 53.94       | Vertical | PAS     |
| 2         | 2509.50         | 49.5           | -63.43      | -112.960      | -13.00      | 50.43       | Vertical | PAS     |
| 3         | 3346.00         | 47.2           | -63.32      | -110.530      | -13.00      | 50.32       | Vertical | PAS     |
| 4         | 4182.50         | 44.6           | -62.21      | -106.840      | -13.00      | 49.21       | Vertical | PAS     |
| 5         | 5019.00         | 43.4           | -59.64      | -103.020      | -13.00      | 46.64       | Vertical | PAS     |
| 6         | 5855.50         | 42.3           | -58.26      | -100.570      | -13.00      | 45.26       | Vertical | PAS     |

LTE band12 Traffic 707.5MHz

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 1415.00         | 48.6           | -68.85      | -117.490      | -13.00      | 55.85       | Horizontal | PAS     |
| 2         | 2122.50         | 48.6           | -65.96      | -114.580      | -13.00      | 52.96       | Horizontal | PAS     |
| 3         | 2830.00         | 47.7           | -64.19      | -111.930      | -13.00      | 51.19       | Horizontal | PAS     |
| 4         | 3537.50         | 46.0           | -63.70      | -109.720      | -13.00      | 50.70       | Horizontal | PAS     |
| 5         | 4245.00         | 45.4           | -61.36      | -106.760      | -13.00      | 48.36       | Horizontal | PAS     |
| 6         | 4952.50         | 44.3           | -58.87      | -103.210      | -13.00      | 45.87       | Horizontal | PAS     |

LTE band12 Traffic 707.5MHz

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 1415.00         | 48.6           | -68.86      | -117.490      | -13.00      | 55.86       | Vertical | PAS     |
| 2         | 2122.50         | 48.1           | -66.53      | -114.580      | -13.00      | 53.53       | Vertical | PAS     |
| 3         | 2830.00         | 47.5           | -64.40      | -111.930      | -13.00      | 51.40       | Vertical | PAS     |
| 4         | 3537.50         | 47.2           | -62.56      | -109.720      | -13.00      | 49.56       | Vertical | PAS     |
| 5         | 4245.00         | 44.4           | -62.37      | -106.760      | -13.00      | 49.37       | Vertical | PAS     |
| 6         | 4952.50         | 43.5           | -59.69      | -103.210      | -13.00      | 46.69       | Vertical | PAS     |

## LTE band13 Traffic 782MHz

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 1564.00         | 49.3           | -67.67      | -116.930      | -40.00      | 27.67       | Horizontal | PAS     |
| 2         | 2346.00         | 47.0           | -66.61      | -113.560      | -13.00      | 53.61       | Horizontal | PAS     |
| 3         | 3128.00         | 47.9           | -63.45      | -111.300      | -13.00      | 50.45       | Horizontal | PAS     |
| 4         | 3910.00         | 47.2           | -59.73      | -106.890      | -13.00      | 46.73       | Horizontal | PAS     |
| 5         | 4692.00         | 44.9           | -59.39      | -104.330      | -13.00      | 46.39       | Horizontal | PAS     |
| 6         | 6247.44         | 44.6           | -54.33      | -98.900       | -13.00      | 41.33       | Horizontal | PAS     |

## LTE band13 Traffic 782MHz

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 1564.00         | 49.0           | -67.93      | -116.930      | -40.00      | 27.93       | Vertical | PAS     |
| 2         | 2346.00         | 48.4           | -65.12      | -113.560      | -13.00      | 52.12       | Vertical | PAS     |
| 3         | 3128.00         | 47.9           | -63.44      | -111.300      | -13.00      | 50.44       | Vertical | PAS     |
| 4         | 3910.00         | 46.1           | -60.79      | -106.890      | -13.00      | 47.79       | Vertical | PAS     |
| 5         | 4692.00         | 43.1           | -61.24      | -104.330      | -13.00      | 48.24       | Vertical | PAS     |

LTE band25 Traffic 1882.5MHz

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3765.00         | 40.5           | -67.08      | -107.600      | -13.00      | 54.08       | Horizontal | PAS     |
| 2         | 5647.50         | 37.9           | -63.17      | -101.050      | -13.00      | 50.17       | Horizontal | PAS     |
| 3         | 7530.00         | 35.2           | -61.76      | -96.930       | -13.00      | 48.76       | Horizontal | PAS     |
| 4         | 9412.50         | 33.8           | -60.42      | -94.170       | -13.00      | 47.42       | Horizontal | PAS     |
| 5         | 12986.25        | 30.6           | -55.70      | -86.340       | -13.00      | 42.70       | Horizontal | PAS     |
| 6         | 16193.13        | 29.2           | -54.17      | -83.340       | -13.00      | 41.17       | Horizontal | PAS     |

LTE band25 Traffic 1882.5MHz

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3765.00         | 40.1           | -67.53      | -107.600      | -13.00      | 54.53       | Vertical | PAS     |
| 2         | 5647.50         | 38.0           | -63.06      | -101.050      | -13.00      | 50.06       | Vertical | PAS     |
| 3         | 7530.00         | 35.6           | -61.29      | -96.930       | -13.00      | 48.29       | Vertical | PAS     |
| 4         | 9412.50         | 33.8           | -60.38      | -94.170       | -13.00      | 47.38       | Vertical | PAS     |
| 5         | 12427.50        | 32.1           | -55.52      | -87.660       | -13.00      | 42.52       | Vertical | PAS     |
| 6         | 16222.50        | 29.9           | -53.75      | -83.640       | -13.00      | 40.75       | Vertical | PAS     |

## LTE band26A Traffic 819MHz

| Data List |                 |                |                |               |                |             |            |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol        | Verdict |
| 1         | 1638.00         | 40.6           | -75.12         | -115.710      | -13.00         | 62.12       | Horizontal | PAS     |
| 2         | 2457.00         | 40.0           | -71.48         | -111.520      | -13.00         | 58.48       | Horizontal | PAS     |
| 3         | 3276.00         | 41.6           | -68.44         | -110.030      | -13.00         | 55.44       | Horizontal | PAS     |
| 4         | 4095.00         | 39.2           | -67.60         | -106.820      | -13.00         | 54.60       | Horizontal | PAS     |
| 5         | 4914.00         | 37.8           | -65.45         | -103.210      | -13.00         | 52.45       | Horizontal | PAS     |
| 6         | 5733.00         | 37.2           | -63.52         | -100.740      | -13.00         | 50.52       | Horizontal | PAS     |

## LTE band26A Traffic 819MHz

| Data List |                 |                |                |               |                |             |          |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol      | Verdict |
| 1         | 1638.00         | 40.8           | -74.91         | -115.710      | -13.00         | 61.91       | Vertical | PAS     |
| 2         | 2457.00         | 40.1           | -71.43         | -111.520      | -13.00         | 58.43       | Vertical | PAS     |
| 3         | 3276.00         | 41.6           | -68.41         | -110.030      | -13.00         | 55.41       | Vertical | PAS     |
| 4         | 4095.00         | 38.9           | -67.90         | -106.820      | -13.00         | 54.90       | Vertical | PAS     |
| 5         | 4914.00         | 38.4           | -64.79         | -103.210      | -13.00         | 51.79       | Vertical | PAS     |
| 6         | 5733.00         | 36.1           | -64.65         | -100.740      | -13.00         | 51.65       | Vertical | PAS     |

LTE band26B Traffic 831.5MHz

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 1673.00         | 48.6           | -68.38      | -116.950      | -13.00      | 55.38       | Horizontal | PAS     |
| 2         | 2509.50         | 48.4           | -64.60      | -112.960      | -13.00      | 51.60       | Horizontal | PAS     |
| 3         | 3346.00         | 46.4           | -64.10      | -110.530      | -13.00      | 51.10       | Horizontal | PAS     |
| 4         | 4182.50         | 44.6           | -62.29      | -106.840      | -13.00      | 49.29       | Horizontal | PAS     |
| 5         | 5019.00         | 43.0           | -60.07      | -103.020      | -13.00      | 47.07       | Horizontal | PAS     |
| 6         | 5855.50         | 42.4           | -58.15      | -100.570      | -13.00      | 45.15       | Horizontal | PAS     |

LTE band26B Traffic 831.5MHz

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 1673.00         | 48.5           | -68.47      | -116.950      | -13.00      | 55.47       | Vertical | PAS     |
| 2         | 2509.50         | 47.9           | -65.11      | -112.960      | -13.00      | 52.11       | Vertical | PAS     |
| 3         | 3346.00         | 47.8           | -62.77      | -110.530      | -13.00      | 49.77       | Vertical | PAS     |
| 4         | 4182.50         | 46.1           | -60.72      | -106.840      | -13.00      | 47.72       | Vertical | PAS     |
| 5         | 5019.00         | 43.2           | -59.82      | -103.020      | -13.00      | 46.82       | Vertical | PAS     |
| 6         | 5855.50         | 43.0           | -57.61      | -100.570      | -13.00      | 44.61       | Vertical | PAS     |

## LTE band41 Traffic 2593MHz

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3949.38         | 41.2           | -65.45      | -106.600      | -13.00      | 52.45       | Horizontal | PAS     |
| 2         | 5186.00         | 37.1           | -65.30      | -102.400      | -13.00      | 52.30       | Horizontal | PAS     |
| 3         | 7779.00         | 35.2           | -61.20      | -96.430       | -13.00      | 48.20       | Horizontal | PAS     |
| 4         | 10372.00        | 34.5           | -57.58      | -92.120       | -13.00      | 44.58       | Horizontal | PAS     |
| 5         | 12965.00        | 29.6           | -56.89      | -86.510       | -13.00      | 43.89       | Horizontal | PAS     |
| 6         | 15558.00        | 27.4           | -57.40      | -84.820       | -13.00      | 44.40       | Horizontal | PAS     |

## LTE band41 Traffic 2593MHz

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3551.25         | 42.5           | -66.23      | -108.730      | -13.00      | 53.23       | Vertical | PAS     |
| 2         | 5186.00         | 37.6           | -64.82      | -102.400      | -13.00      | 51.82       | Vertical | PAS     |
| 3         | 7779.00         | 35.1           | -61.30      | -96.430       | -13.00      | 48.30       | Vertical | PAS     |
| 4         | 10372.00        | 33.8           | -58.36      | -92.120       | -13.00      | 45.36       | Vertical | PAS     |
| 5         | 12965.00        | 30.0           | -56.55      | -86.510       | -13.00      | 43.55       | Vertical | PAS     |
| 6         | 15558.00        | 28.0           | -56.86      | -84.820       | -13.00      | 43.86       | Vertical | PAS     |

## LTE band66 Traffic 1745MHz

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3490.00         | 42.0           | -66.90      | -108.860      | -13.00      | 53.90       | Horizontal | PAS     |
| 2         | 5235.00         | 37.7           | -64.54      | -102.240      | -13.00      | 51.54       | Horizontal | PAS     |
| 3         | 6980.00         | 36.3           | -60.86      | -97.150       | -13.00      | 47.86       | Horizontal | PAS     |
| 4         | 8725.00         | 34.8           | -60.69      | -95.470       | -13.00      | 47.69       | Horizontal | PAS     |
| 5         | 10470.00        | 33.1           | -59.04      | -92.110       | -13.00      | 46.04       | Horizontal | PAS     |
| 6         | 13597.50        | 30.4           | -55.98      | -86.340       | -13.00      | 42.98       | Horizontal | PAS     |

## LTE band66 Traffic 1745MHz

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3490.00         | 40.8           | -68.08      | -108.860      | -13.00      | 55.08       | Vertical | PAS     |
| 2         | 5235.00         | 37.7           | -64.58      | -102.240      | -13.00      | 51.58       | Vertical | PAS     |
| 3         | 6980.00         | 35.7           | -61.43      | -97.150       | -13.00      | 48.43       | Vertical | PAS     |
| 4         | 8725.00         | 35.3           | -60.16      | -95.470       | -13.00      | 47.16       | Vertical | PAS     |
| 5         | 10470.00        | 33.3           | -58.80      | -92.110       | -13.00      | 45.80       | Vertical | PAS     |
| 6         | 14615.00        | 29.8           | -54.63      | -84.430       | -13.00      | 41.63       | Vertical | PAS     |

LTE band71 Traffic 680.5MHz

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 1361.00         | 49.2           | -68.32      | -117.540      | -13.00      | 55.32       | Horizontal | PAS     |
| 2         | 2041.50         | 48.5           | -66.62      | -115.070      | -13.00      | 53.62       | Horizontal | PAS     |
| 3         | 2722.00         | 47.2           | -65.09      | -112.320      | -13.00      | 52.09       | Horizontal | PAS     |
| 4         | 3402.50         | 46.3           | -64.10      | -110.440      | -13.00      | 51.10       | Horizontal | PAS     |
| 5         | 4083.00         | 44.7           | -62.24      | -106.980      | -13.00      | 49.24       | Horizontal | PAS     |
| 6         | 4763.50         | 43.9           | -60.20      | -104.080      | -13.00      | 47.20       | Horizontal | PAS     |

LTE band71 Traffic 680.5MHz

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 1361.00         | 49.7           | -67.82      | -117.540      | -13.00      | 54.82       | Vertical | PAS     |
| 2         | 2041.50         | 47.7           | -67.36      | -115.070      | -13.00      | 54.36       | Vertical | PAS     |
| 3         | 2722.00         | 48.1           | -64.27      | -112.320      | -13.00      | 51.27       | Vertical | PAS     |
| 4         | 3402.50         | 47.0           | -63.43      | -110.440      | -13.00      | 50.43       | Vertical | PAS     |
| 5         | 4083.00         | 45.0           | -62.00      | -106.980      | -13.00      | 49.00       | Vertical | PAS     |
| 6         | 7883.90         | 44.8           | -51.81      | -96.600       | -13.00      | 38.81       | Vertical | PAS     |

LTE UL CA 12A-66A

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 1415.00         | 46.9           | -71.89      | -118.820      | -13.00      | 58.89       | Horizontal | PAS     |
| 2         | 2122.50         | 48.1           | -68.73      | -116.860      | -13.00      | 55.73       | Horizontal | PAS     |
| 3         | 2830.00         | 50.3           | -64.73      | -115.020      | -13.00      | 51.73       | Horizontal | PAS     |
| 4         | 3537.50         | 48.9           | -64.20      | -113.120      | -13.00      | 51.20       | Horizontal | PAS     |
| 5         | 4245.00         | 48.3           | -62.62      | -110.920      | -13.00      | 49.62       | Horizontal | PAS     |
| 6         | 4952.50         | 48.7           | -59.62      | -108.290      | -13.00      | 46.62       | Horizontal | PAS     |

LTE UL CA 12A-66A

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 1415.00         | 46.8           | -71.99      | -118.820      | -13.00      | 58.99       | Vertical | PAS     |
| 2         | 2122.50         | 49.0           | -67.87      | -116.860      | -13.00      | 54.87       | Vertical | PAS     |
| 3         | 2830.00         | 47.3           | -67.72      | -115.020      | -13.00      | 54.72       | Vertical | PAS     |
| 4         | 3537.50         | 46.3           | -66.80      | -113.120      | -13.00      | 53.80       | Vertical | PAS     |
| 5         | 4245.00         | 48.3           | -62.64      | -110.920      | -13.00      | 49.64       | Vertical | PAS     |
| 6         | 4952.50         | 49.9           | -58.38      | -108.290      | -13.00      | 45.38       | Vertical | PAS     |

LTE UL CA 13A-66A

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 1564.00         | 49.0           | -69.76      | -118.780      | -13.00      | 56.76       | Horizontal | PAS     |
| 2         | 2346.00         | 50.2           | -66.29      | -116.520      | -13.00      | 53.29       | Horizontal | PAS     |
| 3         | 3128.00         | 48.3           | -65.81      | -114.090      | -13.00      | 52.81       | Horizontal | PAS     |
| 4         | 3910.00         | 49.0           | -62.05      | -111.000      | -13.00      | 49.05       | Horizontal | PAS     |
| 5         | 4692.00         | 47.1           | -62.17      | -109.280      | -13.00      | 49.17       | Horizontal | PAS     |
| 6         | 9440.50         | 52.2           | -48.80      | -100.970      | -13.00      | 35.80       | Horizontal | PAS     |

LTE UL CA 13A-66A

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 1564.00         | 48.2           | -70.54      | -118.780      | -13.00      | 57.54       | Vertical | PAS     |
| 2         | 2346.00         | 49.5           | -66.99      | -116.520      | -13.00      | 53.99       | Vertical | PAS     |
| 3         | 3128.00         | 50.1           | -63.96      | -114.090      | -13.00      | 50.96       | Vertical | PAS     |
| 4         | 3910.00         | 48.9           | -62.13      | -111.000      | -13.00      | 49.13       | Vertical | PAS     |
| 5         | 4692.00         | 49.6           | -59.69      | -109.280      | -13.00      | 46.69       | Vertical | PAS     |
| 6         | 10260.04        | 51.0           | -49.30      | -100.270      | -13.00      | 36.30       | Vertical | PAS     |

## LTE UL CA 2A-12A

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3760.00         | 44.1           | -67.61      | -111.670      | -13.00      | 54.61       | Horizontal | PAS     |
| 2         | 5640.00         | 44.2           | -63.33      | -107.550      | -13.00      | 50.33       | Horizontal | PAS     |
| 3         | 7520.00         | 43.1           | -59.68      | -102.820      | -13.00      | 46.68       | Horizontal | PAS     |
| 4         | 9400.00         | 44.3           | -56.34      | -100.640      | -13.00      | 43.34       | Horizontal | PAS     |
| 5         | 11280.00        | 42.1           | -57.72      | -99.800       | -13.00      | 44.72       | Horizontal | PAS     |
| 6         | 15086.25        | 45.2           | -50.08      | -95.230       | -13.00      | 37.08       | Horizontal | PAS     |

## LTE UL CA 2A-12A

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3760.00         | 44.4           | -67.26      | -111.670      | -13.00      | 54.26       | Vertical | PAS     |
| 2         | 5640.00         | 45.0           | -62.60      | -107.550      | -13.00      | 49.60       | Vertical | PAS     |
| 3         | 7520.00         | 43.8           | -59.02      | -102.820      | -13.00      | 46.02       | Vertical | PAS     |
| 4         | 9400.00         | 43.9           | -56.75      | -100.640      | -13.00      | 43.75       | Vertical | PAS     |
| 5         | 11280.00        | 42.2           | -57.63      | -99.800       | -13.00      | 44.63       | Vertical | PAS     |
| 6         | 13627.50        | 43.6           | -52.95      | -96.540       | -13.00      | 39.95       | Vertical | PAS     |

LTE UL CA 2A-13A

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3760.00         | 43.6           | -68.04      | -111.670      | -13.00      | 55.04       | Horizontal | PAS     |
| 2         | 5640.00         | 43.9           | -63.63      | -107.550      | -13.00      | 50.63       | Horizontal | PAS     |
| 3         | 7520.00         | 43.6           | -59.19      | -102.820      | -13.00      | 46.19       | Horizontal | PAS     |
| 4         | 9400.00         | 44.6           | -56.01      | -100.640      | -13.00      | 43.01       | Horizontal | PAS     |
| 5         | 11280.00        | 42.9           | -56.89      | -99.800       | -13.00      | 43.89       | Horizontal | PAS     |
| 6         | 13617.50        | 44.4           | -52.12      | -96.530       | -13.00      | 39.12       | Horizontal | PAS     |

LTE UL CA 2A-13A

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3760.00         | 43.6           | -68.06      | -111.670      | -13.00      | 55.06       | Vertical | PAS     |
| 2         | 5640.00         | 44.1           | -63.46      | -107.550      | -13.00      | 50.46       | Vertical | PAS     |
| 3         | 7520.00         | 43.9           | -58.91      | -102.820      | -13.00      | 45.91       | Vertical | PAS     |
| 4         | 9400.00         | 45.6           | -55.05      | -100.640      | -13.00      | 42.05       | Vertical | PAS     |
| 5         | 11280.00        | 41.9           | -57.87      | -99.800       | -13.00      | 44.87       | Vertical | PAS     |
| 6         | 13671.88        | 43.5           | -53.08      | -96.610       | -13.00      | 40.08       | Vertical | PAS     |

LTE UL CA 2A-4A

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3760.00         | 43.8           | -67.84      | -111.670      | -13.00      | 54.84       | Horizontal | PAS     |
| 2         | 5640.00         | 43.7           | -63.86      | -107.550      | -13.00      | 50.86       | Horizontal | PAS     |
| 3         | 7520.00         | 43.8           | -59.07      | -102.820      | -13.00      | 46.07       | Horizontal | PAS     |
| 4         | 9400.00         | 44.2           | -56.46      | -100.640      | -13.00      | 43.46       | Horizontal | PAS     |
| 5         | 11280.00        | 42.0           | -57.81      | -99.800       | -13.00      | 44.81       | Horizontal | PAS     |
| 6         | 14444.38        | 45.4           | -50.49      | -95.840       | -13.00      | 37.49       | Horizontal | PAS     |

LTE UL CA 2A-4A

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3760.00         | 44.0           | -67.72      | -111.670      | -13.00      | 54.72       | Vertical | PAS     |
| 2         | 5640.00         | 44.5           | -63.09      | -107.550      | -13.00      | 50.09       | Vertical | PAS     |
| 3         | 7520.00         | 43.5           | -59.30      | -102.820      | -13.00      | 46.30       | Vertical | PAS     |
| 4         | 9400.00         | 44.4           | -56.24      | -100.640      | -13.00      | 43.24       | Vertical | PAS     |
| 5         | 11280.00        | 42.0           | -57.85      | -99.800       | -13.00      | 44.85       | Vertical | PAS     |
| 6         | 13672.50        | 43.8           | -52.87      | -96.620       | -13.00      | 39.87       | Vertical | PAS     |

LTE UL CA 2A-5A

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3760.00         | 44.9           | -66.75      | -111.670      | -13.00      | 53.75       | Horizontal | PAS     |
| 2         | 5640.00         | 43.6           | -63.99      | -107.550      | -13.00      | 50.99       | Horizontal | PAS     |
| 3         | 7520.00         | 43.3           | -59.54      | -102.820      | -13.00      | 46.54       | Horizontal | PAS     |
| 4         | 9400.00         | 44.3           | -56.37      | -100.640      | -13.00      | 43.37       | Horizontal | PAS     |
| 5         | 11280.00        | 42.3           | -57.53      | -99.800       | -13.00      | 44.53       | Horizontal | PAS     |
| 6         | 15115.00        | 45.6           | -49.69      | -95.280       | -13.00      | 36.69       | Horizontal | PAS     |

LTE UL CA 2A-5A

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3760.00         | 43.8           | -67.89      | -111.670      | -13.00      | 54.89       | Vertical | PAS     |
| 2         | 5640.00         | 44.1           | -63.48      | -107.550      | -13.00      | 50.48       | Vertical | PAS     |
| 3         | 7520.00         | 43.8           | -59.02      | -102.820      | -13.00      | 46.02       | Vertical | PAS     |
| 4         | 9400.00         | 44.4           | -56.21      | -100.640      | -13.00      | 43.21       | Vertical | PAS     |
| 5         | 11280.00        | 42.5           | -57.31      | -99.800       | -13.00      | 44.31       | Vertical | PAS     |
| 6         | 13798.13        | 44.6           | -52.43      | -96.990       | -13.00      | 39.43       | Vertical | PAS     |

LTE UL CA 2A-66A

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3760.00         | 43.8           | -67.91      | -111.670      | -13.00      | 54.91       | Horizontal | PAS     |
| 2         | 5640.00         | 43.9           | -63.67      | -107.550      | -13.00      | 50.67       | Horizontal | PAS     |
| 3         | 7520.00         | 43.0           | -59.78      | -102.820      | -13.00      | 46.78       | Horizontal | PAS     |
| 4         | 9400.00         | 43.8           | -56.80      | -100.640      | -13.00      | 43.80       | Horizontal | PAS     |
| 5         | 11280.00        | 42.7           | -57.09      | -99.800       | -13.00      | 44.09       | Horizontal | PAS     |
| 6         | 13663.75        | 44.6           | -52.00      | -96.600       | -13.00      | 39.00       | Horizontal | PAS     |

LTE UL CA 2A-66A

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3760.00         | 44.2           | -67.45      | -111.670      | -13.00      | 54.45       | Vertical | PAS     |
| 2         | 5640.00         | 44.4           | -63.14      | -107.550      | -13.00      | 50.14       | Vertical | PAS     |
| 3         | 7520.00         | 43.9           | -58.96      | -102.820      | -13.00      | 45.96       | Vertical | PAS     |
| 4         | 9400.00         | 44.8           | -55.85      | -100.640      | -13.00      | 42.85       | Vertical | PAS     |
| 5         | 11280.00        | 42.6           | -57.24      | -99.800       | -13.00      | 44.24       | Vertical | PAS     |
| 6         | 13740.63        | 44.3           | -52.49      | -96.800       | -13.00      | 39.49       | Vertical | PAS     |

LTE UL CA 2A-71A

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3760.00         | 45.1           | -66.61      | -111.670      | -13.00      | 53.61       | Horizontal | PAS     |
| 2         | 5640.00         | 44.2           | -63.40      | -107.550      | -13.00      | 50.40       | Horizontal | PAS     |
| 3         | 7520.00         | 43.5           | -59.28      | -102.820      | -13.00      | 46.28       | Horizontal | PAS     |
| 4         | 9400.00         | 44.5           | -56.15      | -100.640      | -13.00      | 43.15       | Horizontal | PAS     |
| 5         | 11280.00        | 42.3           | -57.47      | -99.800       | -13.00      | 44.47       | Horizontal | PAS     |
| 6         | 15115.00        | 45.4           | -49.86      | -95.280       | -13.00      | 36.86       | Horizontal | PAS     |

LTE UL CA 2A-71A

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3760.00         | 44.0           | -67.65      | -111.670      | -13.00      | 54.65       | Vertical | PAS     |
| 2         | 5640.00         | 44.6           | -62.91      | -107.550      | -13.00      | 49.91       | Vertical | PAS     |
| 3         | 7520.00         | 43.5           | -59.37      | -102.820      | -13.00      | 46.37       | Vertical | PAS     |
| 4         | 9400.00         | 44.0           | -56.67      | -100.640      | -13.00      | 43.67       | Vertical | PAS     |
| 5         | 11280.00        | 41.9           | -57.91      | -99.800       | -13.00      | 44.91       | Vertical | PAS     |
| 6         | 17232.50        | 41.5           | -52.29      | -93.810       | -13.00      | 39.29       | Vertical | PAS     |

LTE UL\_CA 2C

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3760.00         | 43.8           | -67.86      | -111.670      | -13.00      | 54.86       | Horizontal | PAS     |
| 2         | 5640.00         | 44.4           | -63.17      | -107.550      | -13.00      | 50.17       | Horizontal | PAS     |
| 3         | 7520.00         | 43.5           | -59.32      | -102.820      | -13.00      | 46.32       | Horizontal | PAS     |
| 4         | 9400.00         | 44.9           | -55.75      | -100.640      | -13.00      | 42.75       | Horizontal | PAS     |
| 5         | 11280.00        | 42.7           | -57.06      | -99.800       | -13.00      | 44.06       | Horizontal | PAS     |
| 6         | 15749.38        | 45.7           | -49.44      | -95.150       | -13.00      | 36.44       | Horizontal | PAS     |

LTE UL\_CA 2C

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3024.38         | 45.2           | -69.07      | -114.300      | -13.00      | 56.07       | Vertical | PAS     |
| 2         | 3760.00         | 43.1           | -68.62      | -111.670      | -13.00      | 55.62       | Vertical | PAS     |
| 3         | 5640.00         | 43.8           | -63.76      | -107.550      | -13.00      | 50.76       | Vertical | PAS     |
| 4         | 7520.00         | 43.9           | -58.91      | -102.820      | -13.00      | 45.91       | Vertical | PAS     |
| 5         | 9400.00         | 43.9           | -56.77      | -100.640      | -13.00      | 43.77       | Vertical | PAS     |
| 6         | 11280.00        | 41.6           | -58.22      | -99.800       | -13.00      | 45.22       | Vertical | PAS     |
| 7         | 15871.88        | 44.2           | -50.89      | -95.060       | -13.00      | 37.89       | Vertical | PAS     |

## LTE UL CA 41C

| Data List |                 |                |                |               |                |             |            |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol        | Verdict |
| 1         | 3814.50         | 42.3           | -64.98         | -107.260      | -25.00         | 39.98       | Horizontal | PAS     |
| 2         | 5186.00         | 38.5           | -63.86         | -102.400      | -25.00         | 38.86       | Horizontal | PAS     |
| 3         | 7779.00         | 35.6           | -60.86         | -96.430       | -25.00         | 35.86       | Horizontal | PAS     |
| 4         | 10372.00        | 34.0           | -58.10         | -92.120       | -25.00         | 33.10       | Horizontal | PAS     |
| 5         | 12965.00        | 28.9           | -57.62         | -86.510       | -25.00         | 32.62       | Horizontal | PAS     |
| 6         | 15558.00        | 27.5           | -57.35         | -84.820       | -25.00         | 32.35       | Horizontal | PAS     |

## LTE UL CA 41C

| Data List |                 |                |                |               |                |             |          |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol      | Verdict |
| 1         | 3766.50         | 42.5           | -65.09         | -107.580      | -25.00         | 40.09       | Vertical | PAS     |
| 2         | 5186.00         | 37.9           | -64.52         | -102.400      | -25.00         | 39.52       | Vertical | PAS     |
| 3         | 7779.00         | 35.8           | -60.66         | -96.430       | -25.00         | 35.66       | Vertical | PAS     |
| 4         | 10372.00        | 33.8           | -58.30         | -92.120       | -25.00         | 33.30       | Vertical | PAS     |
| 5         | 12965.00        | 28.8           | -57.68         | -86.510       | -25.00         | 32.68       | Vertical | PAS     |
| 6         | 15558.00        | 27.4           | -57.39         | -84.820       | -25.00         | 32.39       | Vertical | PAS     |

LTE UL CA 4A-12A

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3465.00         | 43.9           | -69.58      | -113.470      | -13.00      | 56.58       | Horizontal | PAS     |
| 2         | 5197.50         | 44.5           | -63.96      | -108.420      | -13.00      | 50.96       | Horizontal | PAS     |
| 3         | 6930.00         | 43.8           | -59.58      | -103.410      | -13.00      | 46.58       | Horizontal | PAS     |
| 4         | 8662.50         | 43.0           | -58.74      | -101.750      | -13.00      | 45.74       | Horizontal | PAS     |
| 5         | 10395.00        | 42.7           | -57.48      | -100.220      | -13.00      | 44.48       | Horizontal | PAS     |
| 6         | 12127.50        | 42.4           | -56.01      | -98.380       | -13.00      | 43.01       | Horizontal | PAS     |

LTE UL CA 4A-12A

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3465.00         | 44.1           | -69.40      | -113.470      | -13.00      | 56.40       | Vertical | PAS     |
| 2         | 5197.50         | 44.1           | -64.28      | -108.420      | -13.00      | 51.28       | Vertical | PAS     |
| 3         | 6930.00         | 44.3           | -59.14      | -103.410      | -13.00      | 46.14       | Vertical | PAS     |
| 4         | 8662.50         | 43.6           | -58.16      | -101.750      | -13.00      | 45.16       | Vertical | PAS     |
| 5         | 10395.00        | 42.5           | -57.76      | -100.220      | -13.00      | 44.76       | Vertical | PAS     |
| 6         | 12127.50        | 42.4           | -55.98      | -98.380       | -13.00      | 42.98       | Vertical | PAS     |

LTE UL CA 4A-13A

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3465.00         | 44.5           | -68.98      | -113.470      | -13.00      | 55.98       | Horizontal | PAS     |
| 2         | 5197.50         | 44.4           | -64.05      | -108.420      | -13.00      | 51.05       | Horizontal | PAS     |
| 3         | 6930.00         | 45.1           | -58.32      | -103.410      | -13.00      | 45.32       | Horizontal | PAS     |
| 4         | 8662.50         | 43.6           | -58.14      | -101.750      | -13.00      | 45.14       | Horizontal | PAS     |
| 5         | 10395.00        | 42.8           | -57.44      | -100.220      | -13.00      | 44.44       | Horizontal | PAS     |
| 6         | 12127.50        | 42.6           | -55.76      | -98.380       | -13.00      | 42.76       | Horizontal | PAS     |

LTE UL CA 4A-13A

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3465.00         | 43.5           | -69.99      | -113.470      | -13.00      | 56.99       | Vertical | PAS     |
| 2         | 5197.50         | 43.8           | -64.64      | -108.420      | -13.00      | 51.64       | Vertical | PAS     |
| 3         | 6930.00         | 44.3           | -59.07      | -103.410      | -13.00      | 46.07       | Vertical | PAS     |
| 4         | 8662.50         | 43.4           | -58.31      | -101.750      | -13.00      | 45.31       | Vertical | PAS     |
| 5         | 10395.00        | 42.4           | -57.79      | -100.220      | -13.00      | 44.79       | Vertical | PAS     |
| 6         | 12127.50        | 41.4           | -57.00      | -98.380       | -13.00      | 44.00       | Vertical | PAS     |

LTE UL CA 4A-5A

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3465.00         | 44.8           | -68.66      | -113.470      | -13.00      | 55.66       | Horizontal | PAS     |
| 2         | 5197.50         | 43.7           | -64.68      | -108.420      | -13.00      | 51.68       | Horizontal | PAS     |
| 3         | 6930.00         | 43.9           | -59.47      | -103.410      | -13.00      | 46.47       | Horizontal | PAS     |
| 4         | 8662.50         | 42.5           | -59.26      | -101.750      | -13.00      | 46.26       | Horizontal | PAS     |
| 5         | 10395.00        | 42.4           | -57.80      | -100.220      | -13.00      | 44.80       | Horizontal | PAS     |
| 6         | 12127.50        | 43.1           | -55.30      | -98.380       | -13.00      | 42.30       | Horizontal | PAS     |

LTE UL CA 4A-5A

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3465.00         | 43.7           | -69.79      | -113.470      | -13.00      | 56.79       | Vertical | PAS     |
| 2         | 5197.50         | 43.3           | -65.16      | -108.420      | -13.00      | 52.16       | Vertical | PAS     |
| 3         | 6930.00         | 44.2           | -59.26      | -103.410      | -13.00      | 46.26       | Vertical | PAS     |
| 4         | 8662.50         | 42.7           | -59.08      | -101.750      | -13.00      | 46.08       | Vertical | PAS     |
| 5         | 10395.00        | 41.8           | -58.47      | -100.220      | -13.00      | 45.47       | Vertical | PAS     |
| 6         | 12127.50        | 41.6           | -56.82      | -98.380       | -13.00      | 43.82       | Vertical | PAS     |

LTE UL CA 4A-71A

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3465.00         | 45.2           | -68.27      | -113.470      | -13.00      | 55.27       | Horizontal | PAS     |
| 2         | 5197.50         | 43.5           | -64.92      | -108.420      | -13.00      | 51.92       | Horizontal | PAS     |
| 3         | 6930.00         | 44.2           | -59.19      | -103.410      | -13.00      | 46.19       | Horizontal | PAS     |
| 4         | 8662.50         | 43.5           | -58.27      | -101.750      | -13.00      | 45.27       | Horizontal | PAS     |
| 5         | 10395.00        | 43.0           | -57.27      | -100.220      | -13.00      | 44.27       | Horizontal | PAS     |
| 6         | 12127.50        | 42.2           | -56.22      | -98.380       | -13.00      | 43.22       | Horizontal | PAS     |

LTE UL CA 4A-71A

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3465.00         | 43.5           | -69.93      | -113.470      | -13.00      | 56.93       | Vertical | PAS     |
| 2         | 5197.50         | 43.8           | -64.65      | -108.420      | -13.00      | 51.65       | Vertical | PAS     |
| 3         | 6930.00         | 44.0           | -59.43      | -103.410      | -13.00      | 46.43       | Vertical | PAS     |
| 4         | 8662.50         | 44.3           | -57.49      | -101.750      | -13.00      | 44.49       | Vertical | PAS     |
| 5         | 10395.00        | 42.7           | -57.53      | -100.220      | -13.00      | 44.53       | Vertical | PAS     |
| 6         | 12127.50        | 41.6           | -56.76      | -98.380       | -13.00      | 43.76       | Vertical | PAS     |

LTE UL CA 5A-66A

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 1673.00         | 44.5           | -69.86      | -114.310      | -13.00      | 56.86       | Horizontal | PAS     |
| 2         | 2509.50         | 44.5           | -69.86      | -114.310      | -13.00      | 56.86       | Horizontal | PAS     |
| 3         | 3346.00         | 43.8           | -70.05      | -113.850      | -13.00      | 57.05       | Horizontal | PAS     |
| 4         | 4182.50         | 44.5           | -66.56      | -111.070      | -13.00      | 53.56       | Horizontal | PAS     |
| 5         | 5019.00         | 43.7           | -64.67      | -108.340      | -13.00      | 51.67       | Horizontal | PAS     |
| 6         | 5855.50         | 42.6           | -64.25      | -106.850      | -13.00      | 51.25       | Horizontal | PAS     |

LTE UL CA 5A-66A

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 1673.00         | 43.8           | -70.53      | -114.310      | -13.00      | 57.53       | Vertical | PAS     |
| 2         | 2509.50         | 43.8           | -70.53      | -114.310      | -13.00      | 57.53       | Vertical | PAS     |
| 3         | 3346.00         | 44.0           | -69.86      | -113.850      | -13.00      | 56.86       | Vertical | PAS     |
| 4         | 4182.50         | 44.2           | -66.83      | -111.070      | -13.00      | 53.83       | Vertical | PAS     |
| 5         | 5019.00         | 43.6           | -64.75      | -108.340      | -13.00      | 51.75       | Vertical | PAS     |
| 6         | 5855.50         | 43.4           | -63.47      | -106.850      | -13.00      | 50.47       | Vertical | PAS     |

LTE UL CA 66A-71A

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3490.00         | 43.8           | -69.52      | -113.290      | -13.00      | 56.52       | Horizontal | PAS     |
| 2         | 5235.00         | 43.6           | -64.67      | -108.250      | -13.00      | 51.67       | Horizontal | PAS     |
| 3         | 6980.00         | 43.7           | -59.51      | -103.190      | -13.00      | 46.51       | Horizontal | PAS     |
| 4         | 8725.00         | 43.1           | -58.68      | -101.730      | -13.00      | 45.68       | Horizontal | PAS     |
| 5         | 10470.00        | 43.0           | -57.55      | -100.570      | -13.00      | 44.55       | Horizontal | PAS     |
| 6         | 12875.63        | 45.0           | -52.23      | -97.220       | -13.00      | 39.23       | Horizontal | PAS     |

LTE UL CA 66A-71A

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3490.00         | 43.6           | -69.73      | -113.290      | -13.00      | 56.73       | Vertical | PAS     |
| 2         | 5235.00         | 43.0           | -65.30      | -108.250      | -13.00      | 52.30       | Vertical | PAS     |
| 3         | 6980.00         | 44.5           | -58.67      | -103.190      | -13.00      | 45.67       | Vertical | PAS     |
| 4         | 8725.00         | 43.4           | -58.36      | -101.730      | -13.00      | 45.36       | Vertical | PAS     |
| 5         | 10470.00        | 41.7           | -58.89      | -100.570      | -13.00      | 45.89       | Vertical | PAS     |
| 6         | 13736.25        | 44.3           | -52.51      | -96.780       | -13.00      | 39.51       | Vertical | PAS     |

LTE UL CA 66B

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3490.00         | 44.2           | -69.11      | -113.290      | -13.00      | 56.11       | Horizontal | PAS     |
| 2         | 5235.00         | 43.4           | -64.90      | -108.250      | -13.00      | 51.90       | Horizontal | PAS     |
| 3         | 6980.00         | 43.4           | -59.81      | -103.190      | -13.00      | 46.81       | Horizontal | PAS     |
| 4         | 8725.00         | 42.6           | -59.09      | -101.730      | -13.00      | 46.09       | Horizontal | PAS     |
| 5         | 10470.00        | 42.6           | -57.99      | -100.570      | -13.00      | 44.99       | Horizontal | PAS     |
| 6         | 12859.38        | 44.6           | -52.70      | -97.280       | -13.00      | 39.70       | Horizontal | PAS     |

LTE UL CA 66B

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3490.00         | 43.5           | -69.84      | -113.290      | -13.00      | 56.84       | Vertical | PAS     |
| 2         | 5235.00         | 43.5           | -64.75      | -108.250      | -13.00      | 51.75       | Vertical | PAS     |
| 3         | 6980.00         | 43.8           | -59.41      | -103.190      | -13.00      | 46.41       | Vertical | PAS     |
| 4         | 8725.00         | 43.4           | -58.32      | -101.730      | -13.00      | 45.32       | Vertical | PAS     |
| 5         | 10470.00        | 41.9           | -58.72      | -100.570      | -13.00      | 45.72       | Vertical | PAS     |
| 6         | 12809.38        | 44.5           | -52.93      | -97.470       | -13.00      | 39.93       | Vertical | PAS     |

LTE UL CA 66C

| Data List |                 |                |             |               |             |             |            |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol        | Verdict |
| 1         | 3490.00         | 43.3           | -69.99      | -113.290      | -13.00      | 56.99       | Horizontal | PAS     |
| 2         | 5235.00         | 43.2           | -65.01      | -108.250      | -13.00      | 52.01       | Horizontal | PAS     |
| 3         | 6980.00         | 43.7           | -59.54      | -103.190      | -13.00      | 46.54       | Horizontal | PAS     |
| 4         | 8725.00         | 43.0           | -58.70      | -101.730      | -13.00      | 45.70       | Horizontal | PAS     |
| 5         | 10470.00        | 42.5           | -58.08      | -100.570      | -13.00      | 45.08       | Horizontal | PAS     |
| 6         | 13117.50        | 44.3           | -52.66      | -96.970       | -13.00      | 39.66       | Horizontal | PAS     |

LTE UL CA 66C

| Data List |                 |                |             |               |             |             |          |         |
|-----------|-----------------|----------------|-------------|---------------|-------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBm] | Factor [dB/m] | Limit [dBm] | Margin [dB] | Pol      | Verdict |
| 1         | 3490.00         | 43.7           | -69.61      | -113.290      | -13.00      | 56.61       | Vertical | PAS     |
| 2         | 5235.00         | 44.2           | -64.02      | -108.250      | -13.00      | 51.02       | Vertical | PAS     |
| 3         | 6980.00         | 43.8           | -59.36      | -103.190      | -13.00      | 46.36       | Vertical | PAS     |
| 4         | 8725.00         | 42.9           | -58.80      | -101.730      | -13.00      | 45.80       | Vertical | PAS     |
| 5         | 10470.00        | 43.0           | -57.53      | -100.570      | -13.00      | 44.53       | Vertical | PAS     |
| 6         | 12880.00        | 44.5           | -52.72      | -97.210       | -13.00      | 39.72       | Vertical | PAS     |

LTE UL CA 12A-66A

| Data List |                 |                |                |               |                |             |            |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol        | Verdict |
| 1         | 44.31           | 14.1           | -66.69         | -80.760       | -13.00         | 53.69       | Horizontal | PAS     |
| 2         | 99.50           | 14.3           | -68.37         | -82.650       | -13.00         | 55.37       | Horizontal | PAS     |
| 3         | 165.65          | 14.8           | -70.62         | -85.380       | -13.00         | 57.62       | Horizontal | PAS     |
| 4         | 317.22          | 14.2           | -66.49         | -80.730       | -13.00         | 53.49       | Horizontal | PAS     |
| 5         | 613.75          | 15.2           | -60.06         | -75.250       | -13.00         | 47.06       | Horizontal | PAS     |
| 6         | 921.67          | 16.9           | -55.16         | -72.100       | -13.00         | 42.16       | Horizontal | PAS     |

LTE UL CA 12A-66A

| Data List |                 |                |                |               |                |             |          |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol      | Verdict |
| 1         | 50.86           | 14.6           | -66.03         | -80.580       | -13.00         | 53.03       | Vertical | PAS     |
| 2         | 96.64           | 14.2           | -68.86         | -83.060       | -13.00         | 55.86       | Vertical | PAS     |
| 3         | 183.31          | 14.8           | -69.59         | -84.420       | -13.00         | 56.59       | Vertical | PAS     |
| 4         | 361.93          | 14.6           | -65.01         | -79.600       | -13.00         | 52.01       | Vertical | PAS     |
| 5         | 493.03          | 15.5           | -62.19         | -77.670       | -13.00         | 49.19       | Vertical | PAS     |
| 6         | 769.14          | 16.2           | -57.43         | -73.640       | -13.00         | 44.43       | Vertical | PAS     |

## NR band2 Traffic 1880MHz

| Data List |                 |                |                |               |                |             |            |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol        | Verdict |
| 1         | 1209.10         | 44.9           | -72.21         | -117.080      | -13.00         | 59.21       | Horizontal | PAS     |
| 2         | 3760.00         | 40.2           | -67.40         | -107.620      | -13.00         | 54.40       | Horizontal | PAS     |
| 3         | 5640.00         | 36.4           | -64.63         | -101.070      | -13.00         | 51.63       | Horizontal | PAS     |
| 4         | 7520.00         | 35.7           | -61.27         | -97.000       | -13.00         | 48.27       | Horizontal | PAS     |
| 5         | 9400.00         | 32.6           | -61.55         | -94.130       | -13.00         | 48.55       | Horizontal | PAS     |
| 6         | 11280.00        | 31.1           | -57.07         | -88.150       | -13.00         | 44.07       | Horizontal | PAS     |

## NR band2 Traffic 1880MHz

| Data List |                 |                |                |               |                |             |          |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol      | Verdict |
| 1         | 1360.40         | 44.9           | -71.53         | -116.450      | -13.00         | 58.53       | Vertical | PAS     |
| 2         | 3760.00         | 41.0           | -66.67         | -107.620      | -13.00         | 53.67       | Vertical | PAS     |
| 3         | 5640.00         | 35.5           | -65.53         | -101.070      | -13.00         | 52.53       | Vertical | PAS     |
| 4         | 7520.00         | 35.0           | -61.96         | -97.000       | -13.00         | 48.96       | Vertical | PAS     |
| 5         | 9400.00         | 33.2           | -60.90         | -94.130       | -13.00         | 47.90       | Vertical | PAS     |
| 6         | 11280.00        | 30.7           | -57.45         | -88.150       | -13.00         | 44.45       | Vertical | PAS     |

## NR band5 Traffic 836.5MHz

| Data List |                 |                |                |               |                |             |            |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol        | Verdict |
| 1         | 1225.60         | 46.3           | -71.74         | -118.020      | -13.00         | 58.74       | Horizontal | PAS     |
| 2         | 1673.00         | 44.5           | -72.47         | -116.950      | -13.00         | 59.47       | Horizontal | PAS     |
| 3         | 2509.50         | 42.4           | -70.52         | -112.960      | -13.00         | 57.52       | Horizontal | PAS     |
| 4         | 3346.00         | 42.7           | -67.88         | -110.530      | -13.00         | 54.88       | Horizontal | PAS     |
| 5         | 4182.50         | 39.0           | -67.87         | -106.840      | -13.00         | 54.87       | Horizontal | PAS     |
| 6         | 5019.00         | 38.1           | -64.92         | -103.020      | -13.00         | 51.92       | Horizontal | PAS     |

## NR band5 Traffic 836.5MHz

| Data List |                 |                |                |               |                |             |          |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol      | Verdict |
| 1         | 1673.00         | 43.9           | -73.06         | -116.950      | -13.00         | 60.06       | Vertical | PAS     |
| 2         | 2509.50         | 42.3           | -70.68         | -112.960      | -13.00         | 57.68       | Vertical | PAS     |
| 3         | 3346.00         | 42.4           | -68.17         | -110.530      | -13.00         | 55.17       | Vertical | PAS     |
| 4         | 4182.50         | 39.2           | -67.62         | -106.840      | -13.00         | 54.62       | Vertical | PAS     |
| 5         | 5019.00         | 37.6           | -65.38         | -103.020      | -13.00         | 52.38       | Vertical | PAS     |
| 6         | 5855.50         | 36.2           | -64.35         | -100.570      | -13.00         | 51.35       | Vertical | PAS     |

NR band25 Traffic 1882.5MHz

| Data List |                 |                |                |               |                |             |            |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol        | Verdict |
| 1         | 1357.00         | 44.8           | -71.64         | -116.450      | -13.00         | 58.64       | Horizontal | PAS     |
| 2         | 3765.00         | 40.5           | -67.07         | -107.600      | -13.00         | 54.07       | Horizontal | PAS     |
| 3         | 5647.50         | 36.5           | -64.54         | -101.050      | -13.00         | 51.54       | Horizontal | PAS     |
| 4         | 7530.00         | 35.2           | -61.71         | -96.930       | -13.00         | 48.71       | Horizontal | PAS     |
| 5         | 9412.50         | 33.7           | -60.51         | -94.170       | -13.00         | 47.51       | Horizontal | PAS     |
| 6         | 11529.80        | 32.9           | -55.07         | -87.950       | -13.00         | 42.07       | Horizontal | PAS     |

NR band25 Traffic 1882.5MHz

| Data List |                 |                |                |               |                |             |          |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol      | Verdict |
| 1         | 1205.70         | 45.3           | -71.78         | -117.100      | -13.00         | 58.78       | Vertical | PAS     |
| 2         | 3765.00         | 40.6           | -66.96         | -107.600      | -13.00         | 53.96       | Vertical | PAS     |
| 3         | 5647.50         | 36.4           | -64.61         | -101.050      | -13.00         | 51.61       | Vertical | PAS     |
| 4         | 7530.00         | 35.0           | -61.92         | -96.930       | -13.00         | 48.92       | Vertical | PAS     |
| 5         | 9412.50         | 33.2           | -60.98         | -94.170       | -13.00         | 47.98       | Vertical | PAS     |
| 6         | 14753.85        | 29.5           | -55.92         | -85.390       | -13.00         | 42.92       | Vertical | PAS     |

## NR band26A Traffic 819MHz

| Data List |                 |                |                |               |                |             |            |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol        | Verdict |
| 1         | 1638.00         | 43.5           | -73.34         | -116.830      | -13.00         | 60.34       | Horizontal | PAS     |
| 2         | 2457.00         | 42.9           | -70.34         | -113.220      | -13.00         | 57.34       | Horizontal | PAS     |
| 3         | 3276.00         | 42.5           | -68.20         | -110.730      | -13.00         | 55.20       | Horizontal | PAS     |
| 4         | 4095.00         | 39.5           | -67.42         | -106.930      | -13.00         | 54.42       | Horizontal | PAS     |
| 5         | 4914.00         | 37.7           | -65.67         | -103.340      | -13.00         | 52.67       | Horizontal | PAS     |
| 6         | 5733.00         | 36.0           | -64.68         | -100.670      | -13.00         | 51.68       | Horizontal | PAS     |

## NR band26A Traffic 819MHz

| Data List |                 |                |                |               |                |             |          |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol      | Verdict |
| 1         | 1638.00         | 44.4           | -72.40         | -116.830      | -13.00         | 59.40       | Vertical | PAS     |
| 2         | 2457.00         | 43.5           | -69.77         | -113.220      | -13.00         | 56.77       | Vertical | PAS     |
| 3         | 3276.00         | 42.3           | -68.41         | -110.730      | -13.00         | 55.41       | Vertical | PAS     |
| 4         | 4095.00         | 39.7           | -67.19         | -106.930      | -13.00         | 54.19       | Vertical | PAS     |
| 5         | 4914.00         | 39.0           | -64.32         | -103.340      | -13.00         | 51.32       | Vertical | PAS     |
| 6         | 5733.00         | 36.5           | -64.19         | -100.670      | -13.00         | 51.19       | Vertical | PAS     |

NR band26B Traffic 836.5MHz

| Data List |                 |                |                |               |                |             |            |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol        | Verdict |
| 1         | 1673.00         | 43.8           | -73.18         | -116.950      | -13.00         | 60.18       | Horizontal | PAS     |
| 2         | 2509.50         | 42.8           | -70.21         | -112.960      | -13.00         | 57.21       | Horizontal | PAS     |
| 3         | 3346.00         | 42.8           | -67.75         | -110.530      | -13.00         | 54.75       | Horizontal | PAS     |
| 4         | 4182.50         | 39.2           | -67.62         | -106.840      | -13.00         | 54.62       | Horizontal | PAS     |
| 5         | 5019.00         | 37.7           | -65.30         | -103.020      | -13.00         | 52.30       | Horizontal | PAS     |
| 6         | 5855.50         | 36.6           | -63.93         | -100.570      | -13.00         | 50.93       | Horizontal | PAS     |

NR band26B Traffic 836.5MHz

| Data List |                 |                |                |               |                |             |          |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol      | Verdict |
| 1         | 1673.00         | 44.3           | -72.66         | -116.950      | -13.00         | 59.66       | Vertical | PAS     |
| 2         | 2509.50         | 42.5           | -70.47         | -112.960      | -13.00         | 57.47       | Vertical | PAS     |
| 3         | 3346.00         | 42.9           | -67.65         | -110.530      | -13.00         | 54.65       | Vertical | PAS     |
| 4         | 4182.50         | 39.5           | -67.37         | -106.840      | -13.00         | 54.37       | Vertical | PAS     |
| 5         | 5019.00         | 37.8           | -65.23         | -103.020      | -13.00         | 52.23       | Vertical | PAS     |
| 6         | 5855.50         | 36.3           | -64.26         | -100.570      | -13.00         | 51.26       | Vertical | PAS     |

## NR band41 Traffic 2593MHz

| Data List |                 |                |                |               |                |             |            |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol        | Verdict |
| 1         | 3779.25         | 41.8           | -65.75         | -107.510      | -25.00         | 40.75       | Horizontal | PAS     |
| 2         | 5186.00         | 37.3           | -65.11         | -102.400      | -25.00         | 40.11       | Horizontal | PAS     |
| 3         | 7779.00         | 36.8           | -59.68         | -96.430       | -25.00         | 34.68       | Horizontal | PAS     |
| 4         | 10372.00        | 34.0           | -58.10         | -92.120       | -25.00         | 33.10       | Horizontal | PAS     |
| 5         | 12965.00        | 30.1           | -56.42         | -86.510       | -25.00         | 31.42       | Horizontal | PAS     |
| 6         | 15558.00        | 28.2           | -56.61         | -84.820       | -25.00         | 31.61       | Horizontal | PAS     |

## NR band41 Traffic 2593MHz

| Data List |                 |                |                |               |                |             |          |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol      | Verdict |
| 1         | 3777.75         | 42.1           | -65.40         | -107.510      | -25.00         | 40.40       | Vertical | PAS     |
| 2         | 5186.00         | 37.8           | -64.60         | -102.400      | -25.00         | 39.60       | Vertical | PAS     |
| 3         | 7779.00         | 36.2           | -60.21         | -96.430       | -25.00         | 35.21       | Vertical | PAS     |
| 4         | 10372.00        | 33.7           | -58.47         | -92.120       | -25.00         | 33.47       | Vertical | PAS     |
| 5         | 12965.00        | 29.9           | -56.63         | -86.510       | -25.00         | 31.63       | Vertical | PAS     |
| 6         | 15558.00        | 28.4           | -56.42         | -84.820       | -25.00         | 31.42       | Vertical | PAS     |

## NR band66 Traffic 1745MHz

| Data List |                 |                |                |               |                |             |            |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol        | Verdict |
| 1         | 3490.00         | 41.5           | -67.34         | -108.860      | -13.00         | 54.34       | Horizontal | PAS     |
| 2         | 5235.00         | 37.5           | -64.71         | -102.240      | -13.00         | 51.71       | Horizontal | PAS     |
| 3         | 6980.00         | 35.3           | -61.86         | -97.150       | -13.00         | 48.86       | Horizontal | PAS     |
| 4         | 8725.00         | 34.5           | -60.97         | -95.470       | -13.00         | 47.97       | Horizontal | PAS     |
| 5         | 10470.00        | 32.6           | -59.56         | -92.110       | -13.00         | 46.56       | Horizontal | PAS     |
| 6         | 16191.20        | 27.9           | -55.45         | -83.370       | -13.00         | 42.45       | Horizontal | PAS     |

## NR band66 Traffic 1745MHz

| Data List |                 |                |                |               |                |             |          |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol      | Verdict |
| 1         | 3490.00         | 42.0           | -66.89         | -108.860      | -13.00         | 53.89       | Vertical | PAS     |
| 2         | 5235.00         | 38.1           | -64.14         | -102.240      | -13.00         | 51.14       | Vertical | PAS     |
| 3         | 6980.00         | 36.3           | -60.88         | -97.150       | -13.00         | 47.88       | Vertical | PAS     |
| 4         | 8725.00         | 34.0           | -61.48         | -95.470       | -13.00         | 48.48       | Vertical | PAS     |
| 5         | 10470.00        | 32.9           | -59.21         | -92.110       | -13.00         | 46.21       | Vertical | PAS     |
| 6         | 14606.80        | 28.7           | -55.69         | -84.370       | -13.00         | 42.69       | Vertical | PAS     |

## NR band71 Traffic 680.5MHz

| Data List |                 |                |                |               |                |             |            |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol        | Verdict |
| 1         | 1361.00         | 43.7           | -73.84         | -117.540      | -13.00         | 60.84       | Horizontal | PAS     |
| 2         | 2041.50         | 43.5           | -71.56         | -115.070      | -13.00         | 58.56       | Horizontal | PAS     |
| 3         | 2722.00         | 42.4           | -69.93         | -112.320      | -13.00         | 56.93       | Horizontal | PAS     |
| 4         | 3402.50         | 41.3           | -69.16         | -110.440      | -13.00         | 56.16       | Horizontal | PAS     |
| 5         | 4083.00         | 40.3           | -66.66         | -106.980      | -13.00         | 53.66       | Horizontal | PAS     |
| 6         | 4763.50         | 38.7           | -65.38         | -104.080      | -13.00         | 52.38       | Horizontal | PAS     |

## NR band71 Traffic 680.5MHz

| Data List |                 |                |                |               |                |             |          |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol      | Verdict |
| 1         | 1361.00         | 43.9           | -73.61         | -117.540      | -13.00         | 60.61       | Vertical | PAS     |
| 2         | 2041.50         | 43.8           | -71.23         | -115.070      | -13.00         | 58.23       | Vertical | PAS     |
| 3         | 2722.00         | 42.7           | -69.65         | -112.320      | -13.00         | 56.65       | Vertical | PAS     |
| 4         | 3402.50         | 41.5           | -68.92         | -110.440      | -13.00         | 55.92       | Vertical | PAS     |
| 5         | 4083.00         | 39.6           | -67.42         | -106.980      | -13.00         | 54.42       | Vertical | PAS     |
| 6         | 4763.50         | 38.1           | -66.01         | -104.080      | -13.00         | 53.01       | Vertical | PAS     |

NR band77 Traffic 3500MHz

| Data List |                 |                |                |               |                |             |            |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol        | Verdict |
| 1         | 1511.70         | 45.8           | -70.17         | -116.000      | -13.00         | 57.17       | Horizontal | PAS     |
| 2         | 2376.15         | 43.8           | -68.23         | -112.020      | -13.00         | 55.23       | Horizontal | PAS     |
| 3         | 4140.75         | 41.5           | -65.33         | -106.780      | -13.00         | 52.33       | Horizontal | PAS     |
| 4         | 7000.00         | 36.1           | -61.11         | -97.210       | -13.00         | 48.11       | Horizontal | PAS     |
| 5         | 10500.00        | 32.0           | -60.16         | -92.140       | -13.00         | 47.16       | Horizontal | PAS     |
| 6         | 14000.00        | 27.3           | -59.11         | -86.400       | -13.00         | 46.11       | Horizontal | PAS     |

NR band77 Traffic 3500MHz

| Data List |                 |                |                |               |                |             |          |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol      | Verdict |
| 1         | 1868.70         | 44.4           | -70.33         | -114.690      | -13.00         | 57.33       | Vertical | PAS     |
| 2         | 3253.35         | 44.6           | -65.45         | -110.050      | -13.00         | 52.45       | Vertical | PAS     |
| 3         | 5000.95         | 39.8           | -63.12         | -102.870      | -13.00         | 50.12       | Vertical | PAS     |
| 4         | 7000.00         | 36.1           | -61.16         | -97.210       | -13.00         | 48.16       | Vertical | PAS     |
| 5         | 10500.00        | 31.8           | -60.34         | -92.140       | -13.00         | 47.34       | Vertical | PAS     |
| 6         | 14000.00        | 27.7           | -58.68         | -86.400       | -13.00         | 45.68       | Vertical | PAS     |

NR band77 Traffic 3840MHz

| Data List |                 |                |                |               |                |             |            |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol        | Verdict |
| 1         | 3657.10         | 42.7           | -65.59         | -108.330      | -13.00         | 52.59       | Horizontal | PAS     |
| 2         | 4671.15         | 40.0           | -64.16         | -104.200      | -13.00         | 51.16       | Horizontal | PAS     |
| 3         | 6304.00         | 37.7           | -60.67         | -98.400       | -13.00         | 47.67       | Horizontal | PAS     |
| 4         | 7680.00         | 36.2           | -60.86         | -97.010       | -13.00         | 47.86       | Horizontal | PAS     |
| 5         | 11520.00        | 31.3           | -56.61         | -87.950       | -13.00         | 43.61       | Horizontal | PAS     |
| 6         | 15360.00        | 26.6           | -58.33         | -84.970       | -13.00         | 45.33       | Horizontal | PAS     |

NR band77 Traffic 3840MHz

| Data List |                 |                |                |               |                |             |          |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol      | Verdict |
| 1         | 3008.55         | 43.6           | -65.27         | -108.820      | -13.00         | 52.27       | Vertical | PAS     |
| 2         | 3512.60         | 43.0           | -65.74         | -108.730      | -13.00         | 52.74       | Vertical | PAS     |
| 3         | 5272.95         | 38.5           | -63.58         | -102.100      | -13.00         | 50.58       | Vertical | PAS     |
| 4         | 7680.00         | 36.1           | -60.95         | -97.010       | -13.00         | 47.95       | Vertical | PAS     |
| 5         | 11520.00        | 31.0           | -56.97         | -87.950       | -13.00         | 43.97       | Vertical | PAS     |
| 6         | 15360.00        | 25.9           | -59.09         | -84.970       | -13.00         | 46.09       | Vertical | PAS     |

**THE WORST DATS OF FIELD STRENGTH OF SPURIOUS RADIATION BELOW 1GHZ:**

NR band2 Traffic 1880MHz

| Data List |                 |                |                |               |                |             |            |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|------------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol        | Verdict |
| 1         | 47.56           | 14.2           | -66.34         | -80.540       | -13.00         | 53.34       | Horizontal | PAS     |
| 2         | 112.16          | 14.5           | -68.78         | -83.250       | -13.00         | 55.78       | Horizontal | PAS     |
| 3         | 275.02          | 15.0           | -66.46         | -81.430       | -13.00         | 53.46       | Horizontal | PAS     |
| 4         | 425.61          | 15.1           | -63.52         | -78.660       | -13.00         | 50.52       | Horizontal | PAS     |
| 5         | 522.03          | 15.3           | -61.92         | -77.180       | -13.00         | 48.92       | Horizontal | PAS     |
| 6         | 799.40          | 16.4           | -57.10         | -73.500       | -13.00         | 44.10       | Horizontal | PAS     |

NR band2 Traffic 1880MHz

| Data List |                 |                |                |               |                |             |          |         |
|-----------|-----------------|----------------|----------------|---------------|----------------|-------------|----------|---------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Pol      | Verdict |
| 1         | 50.08           | 14.3           | -66.10         | -80.430       | -13.00         | 53.10       | Vertical | PAS     |
| 2         | 104.06          | 14.5           | -68.19         | -82.730       | -13.00         | 55.19       | Vertical | PAS     |
| 3         | 199.85          | 14.5           | -68.83         | -83.280       | -13.00         | 55.83       | Vertical | PAS     |
| 4         | 297.91          | 14.3           | -66.86         | -81.150       | -13.00         | 53.86       | Vertical | PAS     |
| 5         | 534.30          | 14.9           | -62.02         | -76.960       | -13.00         | 49.02       | Vertical | PAS     |
| 6         | 832.34          | 16.0           | -57.12         | -73.150       | -13.00         | 44.12       | Vertical | PAS     |

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## Conducted test data:

Appendix 1: LTE-band2

Appendix 2: LTE-band4

Appendix 3: LTE-band5

Appendix 4: LTE-band12

Appendix 5: LTE-band13

Appendix 6: LTE-band25

Appendix 7: LTE-band26(814~824MHz)

Appendix 8: LTE-band26(824~849MHz)

Appendix 9: LTE-band41

Appendix 10: LTE-band66

Appendix 11: LTE-band71

Appendix 12: LTE-CA-2C

Appendix 13: LTE-CA-41C

Appendix 14: LTE-CA-66B, CA-66C

Appendix 15: NR-SA-n2

Appendix 16: NR-SA-n5

Appendix 17: NR-SA-n25

Appendix 18: NR-SA-n26(814~824MHz)

Appendix 19: NR-SA-n26(824~849MHz)

Appendix 20: NR-SA-n41

Appendix 21: NR-SA-n66

Appendix 22: NR-SA-n71

Appendix 23: NR-SA-n77(3450~3550MHz)

Appendix 24: NR-SA-n77(3700~3980MHz)

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The End

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