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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53 (h), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

§27.53 (c)

- (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 (-13dBm)
- (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;

§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 600 MHz band and the 698-746 MHz 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 kilohertz or greater. However, in the 100 kilohertz 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(c) (5)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

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FCC §27.53(h) (3)

Compliance with this provision 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, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC §27.53(m) (4) (6)

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 that 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.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, 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 mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

| Frequency (MHz) | Attenuation (dB) |
|-----------------|--------------------------------------|
| <2200 | $43 + 10 \log_{10}(p)$ |
| 2200 - 2288 | $70 + 10 \log_{10}(p)$ |
| 2288 - 2292 | $67 + 10 \log_{10}(p)$ |
| 2292 - 2296 | $61 + 10 \log_{10}(p)$ |
| 2296 - 2300 | $55 + 10 \log_{10}(p)$ |
| 2300 - 2305 | $43 + 10 \log_{10}(p)$ |
| 2305 - 2320 | $43 + 10 \log_{10}(p)^{\text{Note}}$ |
| 2320 - 2324 | $55 + 10 \log_{10}(p)$ |
| 2324 - 2328 | $61 + 10 \log_{10}(p)$ |
| 2328 - 2337 | $67 + 10 \log_{10}(p)$ |
| 2337 - 2341 | $61 + 10 \log_{10}(p)$ |
| 2341 - 2345 | $55 + 10 \log_{10}(p)$ |
| 2345 - 2360 | $43 + 10 \log_{10}(p)^{\text{Note}}$ |
| 2360 - 2365 | $43 + 10 \log_{10}(p)$ |
| 2365 - 2395 | $70 + 10 \log_{10}(p)$ |
| >2395 | $43 + 10 \log_{10}(p)$ |

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

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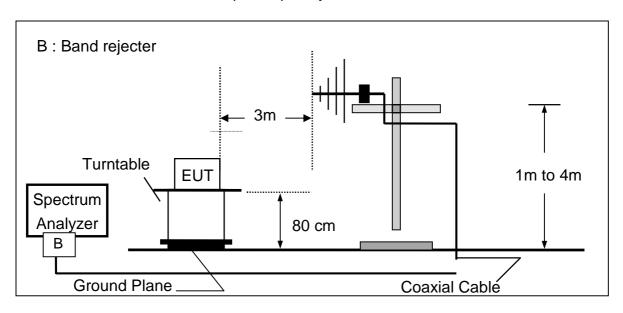




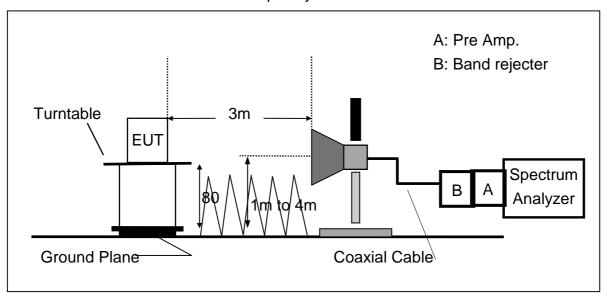
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10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note: "F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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10.4. Measurement Equipment Used:

| ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber | | | | | | | | | | |
|--|----------------------|-----------------------|------------------|------------|------------|--|--|--|--|--|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. | | | | | |
| Broadband An- tenna | SCHWAZBECK | VULB 9168 | 9168-617 | 10/27/2017 | 10/26/2018 | | | | | |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1341 | 05/31/2017 | 05/30/2018 | | | | | |
| Loop Antenna | ETS.LINDGREN | 6502 | 148045 | 09/26/2017 | 09/25/2018 | | | | | |
| 3m Site NSA | SGS | 966 chamber D | N/A | 07/06/2017 | 07/05/2018 | | | | | |
| Spectrum Analyzer | Agilent | N9010A | MY53400256 | 10/30/2017 | 10/29/2018 | | | | | |
| Radio Communi- cation Analyer | Anritsu | MT8820C | 6201107337 | 06/11/2017 | 06/10/2018 | | | | | |
| Pre-Amplifier | EMC Instru- ments | EMC184045B | 980135 | 10/27/2017 | 10/26/2018 | | | | | |
| Pre-Amplifier | EMC Instru- ments | EMC9135 | 980234 | 12/26/2017 | 12/25/2018 | | | | | |
| Pre-Amplifier | EMC Instru- ments | EMC12630SE | 980271 | 12/26/2017 | 12/25/2018 | | | | | |
| Attenuator | Marvelous | MVE2213-30 | RF28 | 12/26/2017 | 12/25/2018 | | | | | |
| DC Block | PASTERNACK | PE8210 | RF81 | 12/26/2017 | 12/25/2018 | | | | | |
| High Pass Filter | Micro-Tronics | G003 | RF99 | 12/26/2017 | 12/25/2018 | | | | | |
| Notch Filter | Woken | EWT-54-0037 | RF54 | 12/26/2017 | 12/25/2018 | | | | | |
| Coaxial Cable | Huber+Suhner | RG 214/U | W21.01 | 12/26/2017 | 12/25/2018 | | | | | |
| Coaxial Cable | Huber Suhner | EMC106-SM-SM- 7200 | 150703 | 12/26/2017 | 12/25/2018 | | | | | |

| ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber | | | | | | | | | |
|--|-------------|-----------------|------------------|------------|------------|--|--|--|--|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. | | | | |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1341 | 05/31/2018 | 05/30/2019 | | | | |
| 3m Site NSA | SGS | 966 chamber D | N/A | 07/06/2018 | 07/05/2019 | | | | |
| Radio Communication Analyer | Anritsu | MT8820C | 6201107337 | 06/11/2018 | 06/10/2019 | | | | |

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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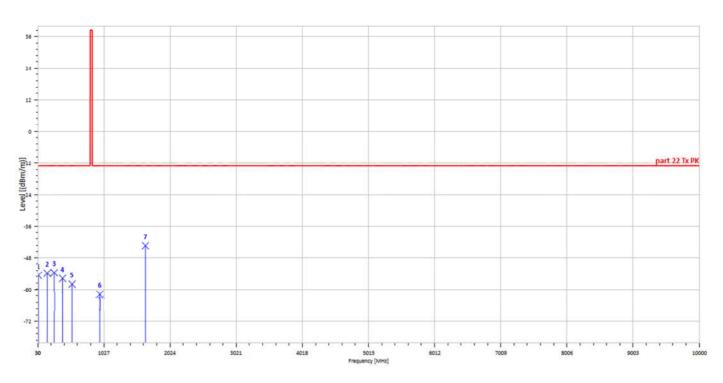
10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Mode: WCDMA B5 Test Date: 2018/4/19

Fundamental Frequency: 826.4 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: E1 Measurement Antenna Pol.: Vertical



| Freq. | Note | EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------|--------------------|-----------------|---------------|--------------|--------|
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 39.70 | S | -54.68 | -35.29 | -19.03 | -0.36 | -13 | -41.68 |
| 172.59 | S | -53.87 | -47.39 | -5.73 | -0.75 | -13 | -40.87 |
| 277.35 | S | -53.68 | -51.00 | -1.73 | -0.96 | -13 | -40.68 |
| 404.42 | S | -55.84 | -53.13 | -1.42 | -1.28 | -13 | -42.84 |
| 547.98 | S | -58.01 | -55.30 | -1.39 | -1.32 | -13 | -45.01 |
| 965.08 | S | -61.93 | -58.16 | -1.91 | -1.86 | -13 | -48.93 |
| 1652.80 | Н | -43.40 | -47.80 | 6.84 | -2.44 | -13 | -30.40 |

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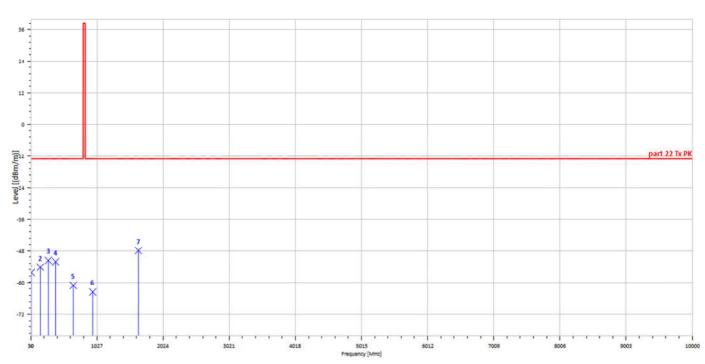


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WCDMA B5 Test Date: Operation Mode: 2018/4/19

Fundamental Frequency: 826.4 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: E1 Measurement Antenna Pol.: Horizontal



| Freq. | Note | EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------|--------------------|-----------------|---------------|--------------|--------|
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 37.76 | S | -56.27 | -36.58 | -19.35 | -0.34 | -13 | -43.27 |
| 174.53 | S | -54.24 | -48.08 | -5.41 | -0.75 | -13 | -41.24 |
| 294.81 | S | -51.62 | -49.03 | -1.59 | -1.00 | -13 | -38.62 |
| 404.42 | S | -52.17 | -49.46 | -1.42 | -1.28 | -13 | -39.17 |
| 671.17 | S | -61.14 | -57.82 | -1.80 | -1.52 | -13 | -48.14 |
| 964.11 | S | -63.61 | -59.84 | -1.91 | -1.86 | -13 | -50.61 |
| 1652.80 | Н | -47.90 | -52.30 | 6.84 | -2.44 | -13 | -34.90 |

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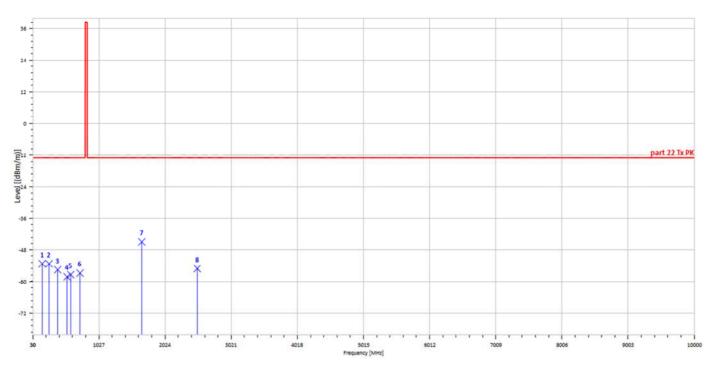


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WCDMA B5 Test Date: Operation Mode: 2018/4/19

Fundamental Frequency: 836.6 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E1 Measurement Antenna Pol.: Vertical



| Freq. | Note | EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------|--------------------|-----------------|---------------|--------------|--------|
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 172.59 | S | -53.31 | -46.82 | -5.73 | -0.75 | -13 | -40.31 |
| 275.41 | S | -53.30 | -50.66 | -1.69 | -0.95 | -13 | -40.30 |
| 405.39 | S | -55.59 | -52.88 | -1.42 | -1.29 | -13 | -42.59 |
| 547.01 | S | -58.26 | -55.56 | -1.39 | -1.31 | -13 | -45.26 |
| 602.30 | S | -57.45 | -54.01 | -2.00 | -1.44 | -13 | -44.45 |
| 741.98 | S | -56.88 | -53.16 | -2.26 | -1.47 | -13 | -43.88 |
| 1673.20 | Н | -44.95 | -49.40 | 6.90 | -2.45 | -13 | -31.95 |
| 2509.80 | Н | -55.13 | -60.45 | 8.37 | -3.04 | -13 | -42.13 |

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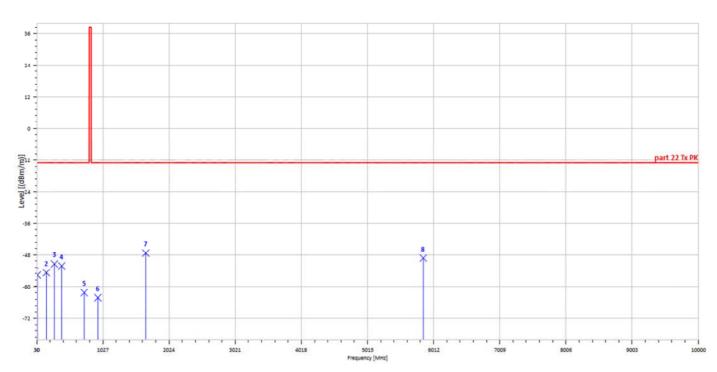


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WCDMA B5 Test Date: Operation Mode: 2018/4/19

Fundamental Frequency: 836.6 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E1 Measurement Antenna Pol.: Horizontal



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|---------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 38.73 | S | -55.71 | -36.17 | -19.19 | -0.35 | -13 | -42.71 |
| 175.50 | S | -54.80 | -48.81 | -5.24 | -0.75 | -13 | -41.80 |
| 295.78 | S | -51.47 | -48.87 | -1.60 | -1.01 | -13 | -38.47 |
| 405.39 | S | -52.23 | -49.52 | -1.42 | -1.29 | -13 | -39.23 |
| 744.89 | S | -62.37 | -58.59 | -2.30 | -1.48 | -13 | -49.37 |
| 951.50 | S | -64.25 | -60.39 | -2.00 | -1.86 | -13 | -51.25 |
| 1673.20 | Н | -47.35 | -51.80 | 6.90 | -2.45 | -13 | -34.35 |
| 5856.20 | Н | -49.27 | -55.28 | 10.79 | -4.78 | -13 | -36.27 |

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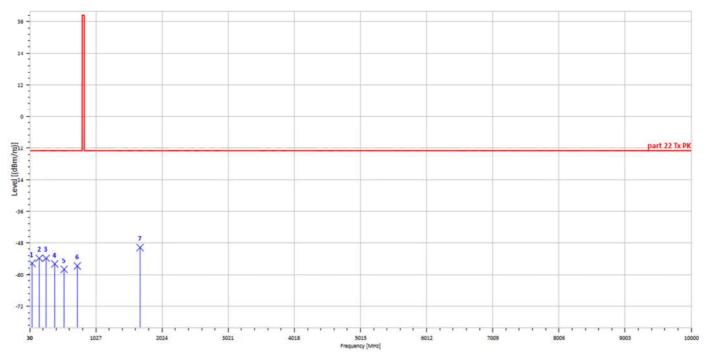


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WCDMA B5 Test Date: Operation Mode: 2018/4/19

Fundamental Frequency: 846.6 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E1 Measurement Antenna Pol.: Vertical



| Freq. | Note | EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------|--------------------|-----------------|---------------|--------------|--------|
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 64.92 | S | -55.84 | -41.49 | -13.87 | -0.48 | -13 | -42.84 |
| 172.59 | S | -53.86 | -47.38 | -5.73 | -0.75 | -13 | -40.86 |
| 276.38 | S | -53.86 | -51.20 | -1.71 | -0.95 | -13 | -40.86 |
| 406.36 | S | -56.07 | -53.36 | -1.42 | -1.29 | -13 | -43.07 |
| 547.98 | S | -58.08 | -55.37 | -1.39 | -1.32 | -13 | -45.08 |
| 746.83 | S | -56.84 | -53.03 | -2.32 | -1.49 | -13 | -43.84 |
| 1693.20 | Н | -49.83 | -54.31 | 6.97 | -2.49 | -13 | -36.83 |

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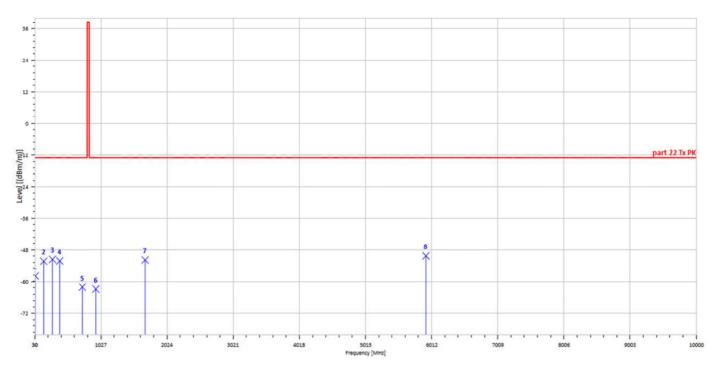


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WCDMA B5 Test Date: Operation Mode: 2018/4/19

Fundamental Frequency: 846.6 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E1 Measurement Antenna Pol.: Horizontal



| Freq. | Note | EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------|--------------------|-----------------|---------------|--------------|--------|
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 37.76 | S | -57.90 | -38.21 | -19.35 | -0.34 | -13 | -44.90 |
| 164.83 | S | -52.32 | -44.87 | -6.70 | -0.75 | -13 | -39.32 |
| 296.75 | S | -51.60 | -48.99 | -1.60 | -1.01 | -13 | -38.60 |
| 406.36 | S | -52.20 | -49.49 | -1.42 | -1.29 | -13 | -39.20 |
| 746.83 | S | -62.16 | -58.34 | -2.32 | -1.49 | -13 | -49.16 |
| 949.56 | S | -62.90 | -59.05 | -2.00 | -1.85 | -13 | -49.90 |
| 1693.20 | Н | -51.85 | -56.33 | 6.97 | -2.49 | -13 | -38.85 |
| 5926.20 | Н | -50.29 | -56.33 | 10.82 | -4.79 | -13 | -37.29 |

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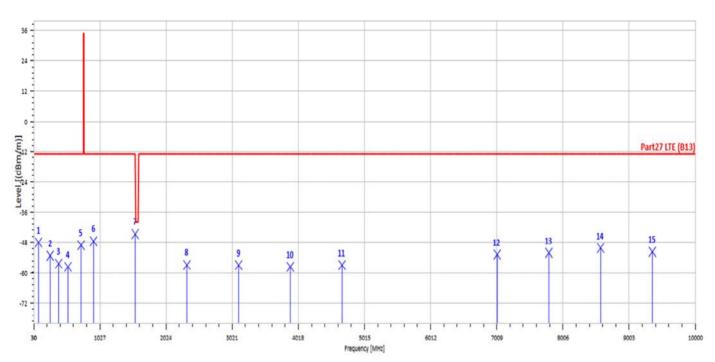
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Operation Mode: **LTEB13 5M QPSK 1.0** Test Date: 2018/7/5

Fundamental Frequency: 779.5 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol.: E2 Vertical



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|---------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 101.78 | S | -47.99 | -40.76 | -6.67 | -0.56 | -13 | -34.99 |
| 277.35 | S | -53.27 | -50.58 | -1.73 | -0.96 | -13 | -40.27 |
| 405.39 | S | -56.39 | -53.68 | -1.42 | -1.29 | -13 | -43.39 |
| 546.04 | S | -57.66 | -54.97 | -1.39 | -1.31 | -13 | -44.66 |
| 742.95 | S | -49.09 | -45.35 | -2.27 | -1.47 | -13 | -36.09 |
| 931.13 | S | -47.54 | -43.77 | -1.97 | -1.79 | -13 | -34.54 |
| 1559.00 | Н | -44.67 | -48.83 | 6.54 | -2.38 | -40 | -4.67 |
| 2338.50 | Н | -56.92 | -62.20 | 8.22 | -2.94 | -13 | -43.92 |
| 3118.00 | Н | -56.96 | -62.98 | 9.39 | -3.37 | -13 | -43.96 |
| 3897.50 | Н | -57.66 | -64.14 | 10.31 | -3.83 | -13 | -44.66 |
| 4677.00 | Н | -56.96 | -63.18 | 10.44 | -4.22 | -13 | -43.96 |
| 7015.50 | Н | -52.79 | -56.88 | 9.33 | -5.24 | -13 | -39.79 |
| 7795.00 | Н | -52.13 | -55.06 | 8.69 | -5.77 | -13 | -39.13 |
| 8574.50 | Н | -50.21 | -54.07 | 9.74 | -5.88 | -13 | -37.21 |
| 9354.00 | Н | -51.73 | -55.53 | 9.90 | -6.10 | -13 | -38.73 |

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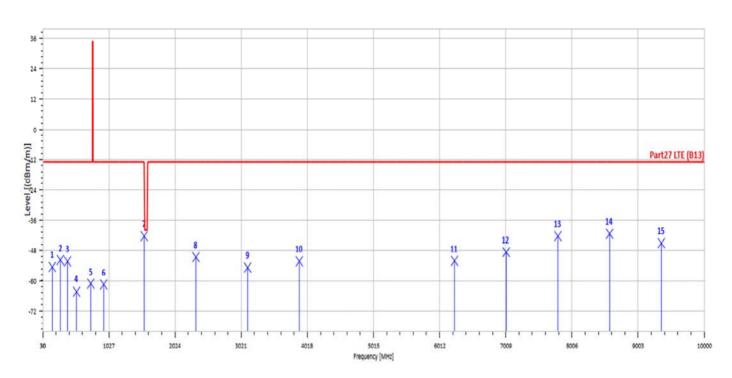


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LTEB13 5M QPSK 1.0 Test Date: Operation Mode: 2018/7/5

Fundamental Frequency: 779.5 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



| Freq. | Note | EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------|--------------------|-----------------|---------------|--------------|--------|
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 173.56 | S | -54.53 | -48.21 | -5.57 | -0.75 | -13 | -41.53 |
| 294.81 | S | -51.79 | -49.19 | -1.59 | -1.00 | -13 | -38.79 |
| 403.45 | S | -52.36 | -49.66 | -1.42 | -1.28 | -13 | -39.36 |
| 539.25 | S | -64.32 | -61.67 | -1.38 | -1.27 | -13 | -51.32 |
| 753.62 | S | -61.16 | -57.29 | -2.33 | -1.53 | -13 | -48.16 |
| 948.59 | S | -61.48 | -57.63 | -2.00 | -1.85 | -13 | -48.48 |
| 1559.00 | Н | -42.37 | -46.53 | 6.54 | -2.38 | -40 | -2.37 |
| 2338.50 | Н | -50.70 | -55.98 | 8.22 | -2.94 | -13 | -37.70 |
| 3118.00 | Н | -54.74 | -60.76 | 9.39 | -3.37 | -13 | -41.74 |
| 3897.50 | Н | -52.33 | -58.81 | 10.31 | -3.83 | -13 | -39.33 |
| 6236.00 | Н | -52.14 | -57.52 | 10.33 | -4.95 | -13 | -39.14 |
| 7015.50 | Н | -48.65 | -52.73 | 9.33 | -5.24 | -13 | -35.65 |
| 7795.00 | Н | -42.36 | -45.28 | 8.69 | -5.77 | -13 | -29.36 |
| 8574.50 | Н | -41.43 | -45.29 | 9.74 | -5.88 | -13 | -28.43 |
| 9354.00 | Н | -45.07 | -48.86 | 9.90 | -6.10 | -13 | -32.07 |

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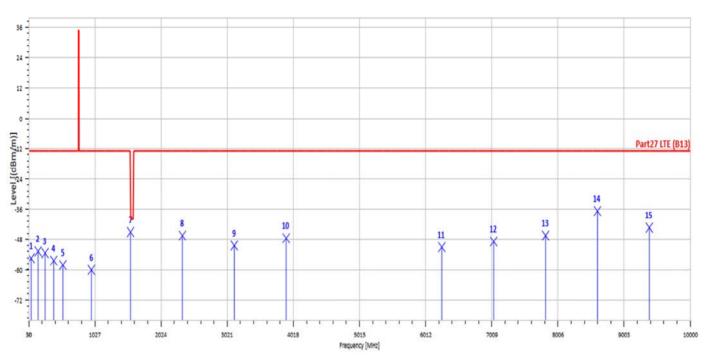


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LTEB13 5M QPSK 1.0 Test Date: Operation Mode: 2018/7/5

Fundamental Frequency: 782 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical



| Freq. | Note | EIRP | SG Output | Antenna Gain | Cable | Limit @3m | Margin |
|---------|---------|--------|--------------|-----------------|------------|--------------|--------|
| MHz | F/H/E/S | dBm | Level dBm | dBi | Loss dB | dBm/m | dB |
| 65.89 | S | -55.41 | -41.32 | -13.60 | -0.49 | -13 | -42.41 |
| | | | _ | | | | |
| 170.65 | S | -52.74 | -45.92 | -6.06 | -0.75 | -13 | -39.74 |
| 276.38 | S | -53.40 | -50.74 | -1.71 | -0.95 | -13 | -40.40 |
| 406.36 | S | -56.35 | -53.64 | -1.42 | -1.29 | -13 | -43.35 |
| 544.10 | S | -58.11 | -55.43 | -1.38 | -1.29 | -13 | -45.11 |
| 973.81 | S | -60.12 | -56.41 | -1.85 | -1.85 | -13 | -47.12 |
| 1564.00 | Н | -45.05 | -49.21 | 6.55 | -2.39 | -40 | -5.05 |
| 2346.00 | Н | -46.45 | -51.73 | 8.23 | -2.95 | -13 | -33.45 |
| 3128.00 | Н | -50.46 | -56.48 | 9.41 | -3.39 | -13 | -37.46 |
| 3910.00 | Н | -47.51 | -53.98 | 10.31 | -3.84 | -13 | -34.51 |
| 6256.00 | Н | -51.09 | -56.42 | 10.29 | -4.96 | -13 | -38.09 |
| 7038.00 | Н | -48.81 | -52.89 | 9.30 | -5.23 | -13 | -35.81 |
| 7820.00 | Н | -46.41 | -49.52 | 8.69 | -5.58 | -13 | -33.41 |
| 8602.00 | Н | -36.70 | -40.49 | 9.77 | -5.98 | -13 | -23.70 |
| 9384.00 | Н | -43.32 | -47.06 | 9.87 | -6.12 | -13 | -30.32 |

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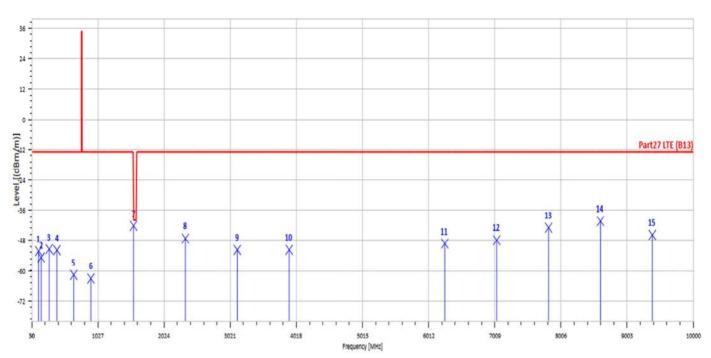


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LTEB13 5M QPSK 1.0 Test Date: Operation Mode: 2018/7/5

Fundamental Frequency: 782 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



| Freq. | Note | EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------|--------------------|-----------------|---------------|--------------|--------|
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 133.79 | S | -52.22 | -43.82 | -7.68 | -0.72 | -13 | -39.22 |
| 171.62 | S | -54.72 | -48.07 | -5.90 | -0.75 | -13 | -41.72 |
| 292.87 | S | -51.49 | -48.90 | -1.59 | -1.00 | -13 | -38.49 |
| 409.27 | S | -51.88 | -49.16 | -1.43 | -1.29 | -13 | -38.88 |
| 662.44 | S | -61.62 | -58.27 | -1.84 | -1.51 | -13 | -48.62 |
| 921.43 | S | -63.05 | -59.32 | -1.95 | -1.78 | -13 | -50.05 |
| 1564.00 | Н | -42.22 | -46.39 | 6.55 | -2.39 | -40 | -2.22 |
| 2346.00 | Н | -47.20 | -52.48 | 8.23 | -2.95 | -13 | -34.20 |
| 3128.00 | Н | -51.77 | -57.79 | 9.41 | -3.39 | -13 | -38.77 |
| 3910.00 | Н | -51.75 | -58.22 | 10.31 | -3.84 | -13 | -38.75 |
| 6256.00 | Н | -49.22 | -54.54 | 10.29 | -4.96 | -13 | -36.22 |
| 7038.00 | Н | -47.89 | -51.96 | 9.30 | -5.23 | -13 | -34.89 |
| 7820.00 | Н | -42.96 | -46.06 | 8.69 | -5.58 | -13 | -29.96 |
| 8602.00 | Н | -40.37 | -44.16 | 9.77 | -5.98 | -13 | -27.37 |
| 9384.00 | Н | -45.78 | -49.52 | 9.87 | -6.12 | -13 | -32.78 |

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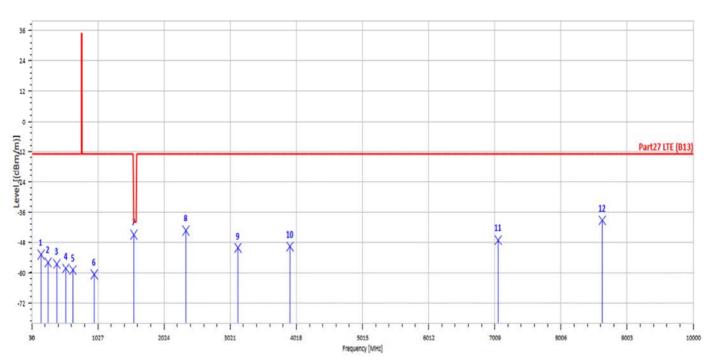


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LTEB13 5M QPSK 1.0 Operation Mode: Test Date: 2018/7/5

Fundamental Frequency: 784.5 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical



| Freq. | Note | EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------|--------------------|-----------------|---------------|--------------|--------|
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 170.65 | S | -52.82 | -46.01 | -6.06 | -0.75 | -13 | -39.82 |
| 276.38 | S | -55.88 | -53.21 | -1.71 | -0.95 | -13 | -42.88 |
| 408.30 | S | -56.50 | -53.78 | -1.43 | -1.29 | -13 | -43.50 |
| 543.13 | S | -58.29 | -55.62 | -1.38 | -1.29 | -13 | -45.29 |
| 650.80 | S | -58.96 | -55.62 | -1.90 | -1.45 | -13 | -45.96 |
| 971.87 | S | -60.73 | -57.01 | -1.86 | -1.85 | -13 | -47.73 |
| 1569.00 | Н | -44.89 | -49.07 | 6.57 | -2.39 | -40 | -4.89 |
| 2353.50 | Н | -43.32 | -48.60 | 8.23 | -2.95 | -13 | -30.32 |
| 3138.00 | Н | -50.20 | -56.23 | 9.43 | -3.40 | -13 | -37.20 |
| 3922.50 | Н | -49.66 | -56.12 | 10.32 | -3.86 | -13 | -36.66 |
| 7060.50 | Н | -47.06 | -51.03 | 9.28 | -5.31 | -13 | -34.06 |
| 8629.50 | Н | -39.24 | -43.08 | 9.81 | -5.96 | -13 | -26.24 |

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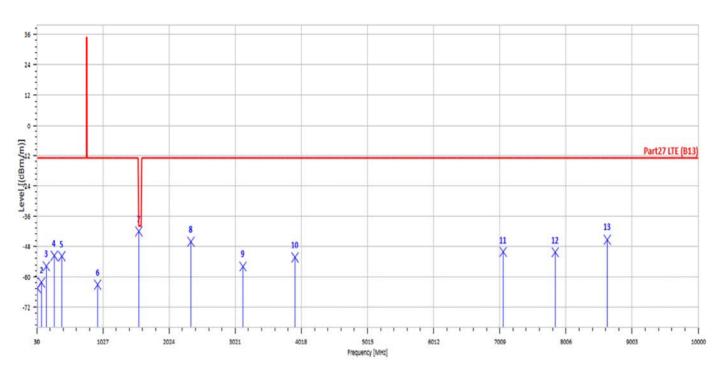


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LTEB13 5M QPSK 1.0 Operation Mode: Test Date: 2018/7/5

Fundamental Frequency: 784.5 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|---------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 38.73 | S | -64.41 | -44.87 | -19.19 | -0.35 | -13 | -51.41 |
| 100.81 | S | -62.30 | -55.16 | -6.58 | -0.56 | -13 | -49.30 |
| 174.53 | S | -55.78 | -49.62 | -5.41 | -0.75 | -13 | -42.78 |
| 293.84 | S | -51.72 | -49.13 | -1.59 | -1.00 | -13 | -38.72 |
| 407.33 | S | -51.90 | -49.18 | -1.43 | -1.29 | -13 | -38.90 |
| 947.62 | S | -63.11 | -59.27 | -2.00 | -1.85 | -13 | -50.11 |
| 1569.00 | Н | -42.08 | -46.26 | 6.57 | -2.39 | -40 | -2.08 |
| 2353.50 | Н | -46.03 | -51.30 | 8.23 | -2.95 | -13 | -33.03 |
| 3138.00 | Н | -55.91 | -61.94 | 9.43 | -3.40 | -13 | -42.91 |
| 3922.50 | Н | -52.37 | -58.83 | 10.32 | -3.86 | -13 | -39.37 |
| 7060.50 | Н | -50.21 | -54.18 | 9.28 | -5.31 | -13 | -37.21 |
| 7845.00 | Н | -50.37 | -53.45 | 8.68 | -5.61 | -13 | -37.37 |
| 8629.50 | Н | -45.28 | -49.13 | 9.81 | -5.96 | -13 | -32.28 |

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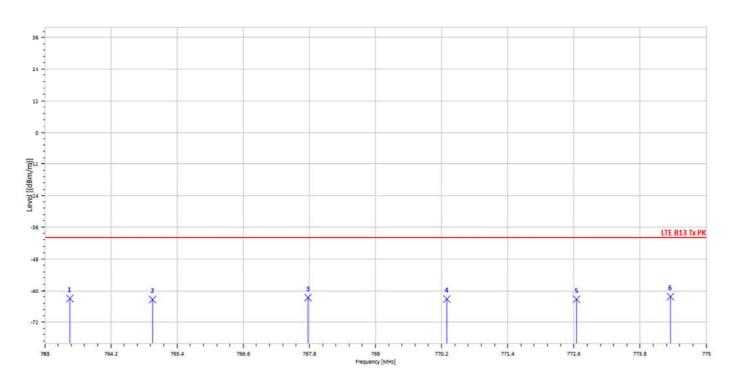


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LTEB13 5M QPSK 1.0 Operation Mode: Test Date: 2018/4/18

Fundamental Frequency: 779.5 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical



| Freq. | Note | EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|--------|---------|--------|--------------------|-----------------|---------------|--------------|--------|
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 763.46 | S | -63.01 | -59.19 | -2.24 | -1.58 | -40 | -23.01 |
| 764.96 | S | -63.41 | -59.59 | -2.23 | -1.59 | -40 | -23.41 |
| 767.78 | S | -62.71 | -58.91 | -2.20 | -1.61 | -40 | -22.71 |
| 770.30 | S | -63.22 | -59.42 | -2.18 | -1.62 | -40 | -23.22 |
| 772.65 | S | -63.31 | -59.52 | -2.16 | -1.63 | -40 | -23.31 |
| 774.35 | S | -62.33 | -58.55 | -2.14 | -1.64 | -40 | -22.33 |

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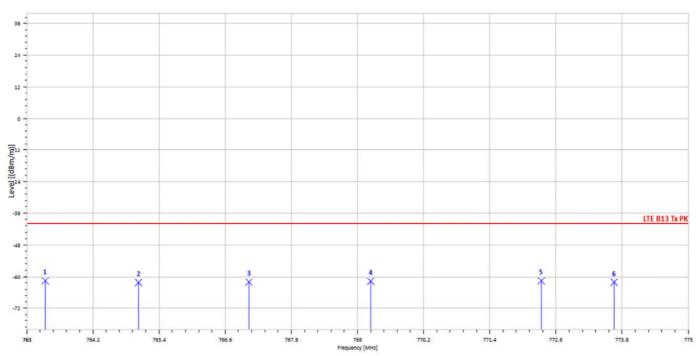


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LTEB13 5M QPSK 1.0 Operation Mode: Test Date: 2018/4/18

Fundamental Frequency: 779.5 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|--------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 763.34 | S | -61.65 | -57.83 | -2.24 | -1.58 | -40 | -21.65 |
| 765.03 | S | -62.29 | -58.47 | -2.23 | -1.59 | -40 | -22.29 |
| 767.03 | S | -62.09 | -58.28 | -2.21 | -1.60 | -40 | -22.09 |
| 769.24 | S | -61.79 | -57.99 | -2.19 | -1.61 | -40 | -21.79 |
| 772.34 | S | -61.64 | -57.85 | -2.16 | -1.63 | -40 | -21.64 |
| 773.66 | S | -62.16 | -58.38 | -2.15 | -1.64 | -40 | -22.16 |

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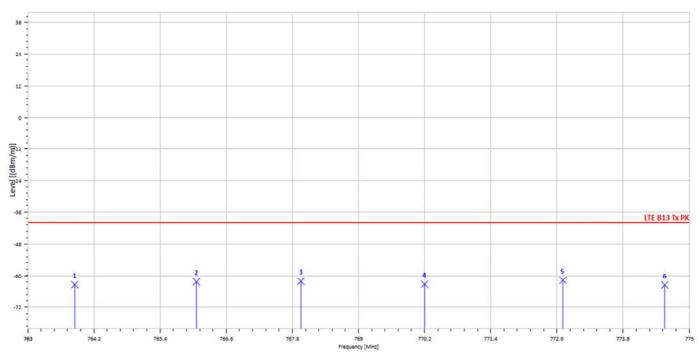


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LTEB13 5M QPSK 1.0 Operation Mode: Test Date: 2018/4/18

Fundamental Frequency: 779.5 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|--------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 763.85 | S | -63.42 | -59.59 | -2.24 | -1.58 | -40 | -23.42 |
| 766.06 | S | -62.34 | -58.53 | -2.22 | -1.60 | -40 | -22.34 |
| 767.96 | S | -62.14 | -58.33 | -2.20 | -1.61 | -40 | -22.14 |
| 770.20 | S | -63.24 | -59.44 | -2.18 | -1.62 | -40 | -23.24 |
| 772.71 | S | -61.76 | -57.97 | -2.16 | -1.63 | -40 | -21.76 |
| 774.56 | S | -63.57 | -59.80 | -2.14 | -1.64 | -40 | -23.57 |

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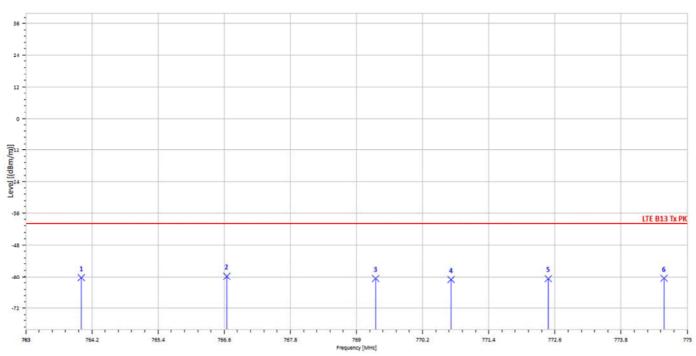


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LTEB13 5M QPSK 1.0 Operation Mode: Test Date: 2018/4/18

Fundamental Frequency: 779.5 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|--------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 764.01 | S | -60.40 | -56.58 | -2.24 | -1.58 | -40 | -20.40 |
| 766.65 | S | -59.86 | -56.05 | -2.21 | -1.60 | -40 | -19.86 |
| 769.35 | S | -60.72 | -56.92 | -2.19 | -1.61 | -40 | -20.72 |
| 770.72 | S | -61.11 | -57.31 | -2.17 | -1.62 | -40 | -21.11 |
| 772.48 | S | -60.79 | -57.00 | -2.16 | -1.63 | -40 | -20.79 |
| 774.58 | S | -60.60 | -56.82 | -2.14 | -1.64 | -40 | -20.60 |

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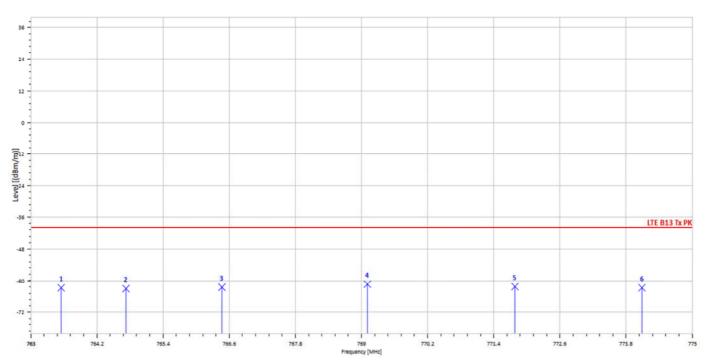


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LTEB13 5M QPSK 1.0 Operation Mode: Test Date: 2018/4/18

Fundamental Frequency: 779.5 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|--------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 763.55 | S | -62.72 | -58.89 | -2.24 | -1.58 | -40 | -22.72 |
| 764.73 | S | -63.04 | -59.22 | -2.23 | -1.59 | -40 | -23.04 |
| 766.47 | S | -62.50 | -58.69 | -2.21 | -1.60 | -40 | -22.50 |
| 769.11 | S | -61.36 | -57.56 | -2.19 | -1.61 | -40 | -21.36 |
| 771.78 | S | -62.26 | -58.47 | -2.16 | -1.63 | -40 | -22.26 |
| 774.09 | S | -62.71 | -58.93 | -2.14 | -1.64 | -40 | -22.71 |

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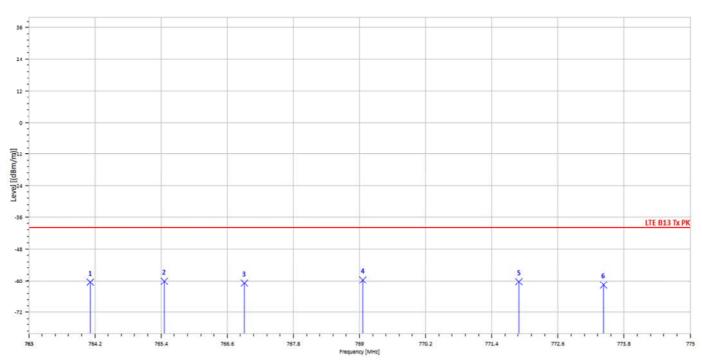


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LTEB13 5M QPSK 1.0 Operation Mode: Test Date: 2018/4/18

Fundamental Frequency: 779.5 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|--------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 764.12 | S | -60.58 | -56.76 | -2.24 | -1.58 | -40 | -20.58 |
| 765.46 | S | -60.25 | -56.44 | -2.22 | -1.59 | -40 | -20.25 |
| 766.91 | S | -60.92 | -57.11 | -2.21 | -1.60 | -40 | -20.92 |
| 769.06 | S | -59.76 | -55.96 | -2.19 | -1.61 | -40 | -19.76 |
| 771.89 | S | -60.40 | -56.61 | -2.16 | -1.63 | -40 | -20.40 |
| 773.43 | S | -61.67 | -57.89 | -2.15 | -1.64 | -40 | -21.67 |

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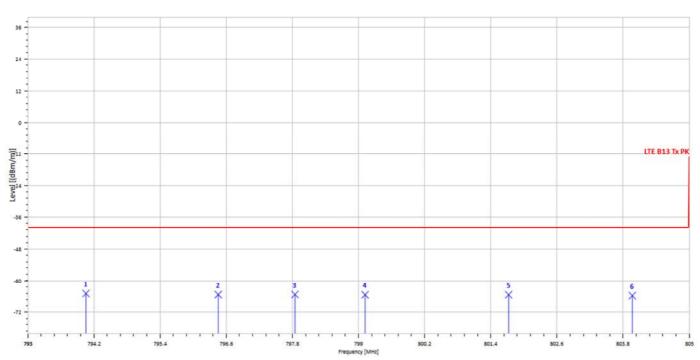


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LTEB13 5M QPSK 1.0 Operation Mode: Test Date: 2018/4/18

Fundamental Frequency: 779.5 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|--------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 794.06 | S | -64.85 | -61.29 | -1.96 | -1.59 | -40 | -24.85 |
| 796.46 | S | -65.28 | -61.75 | -1.94 | -1.59 | -40 | -25.28 |
| 797.85 | S | -65.23 | -61.71 | -1.93 | -1.60 | -40 | -25.23 |
| 799.12 | S | -65.34 | -61.82 | -1.92 | -1.60 | -40 | -25.34 |
| 801.72 | S | -65.33 | -61.82 | -1.91 | -1.60 | -40 | -25.33 |
| 803.97 | S | -65.67 | -62.16 | -1.91 | -1.60 | -40 | -25.67 |

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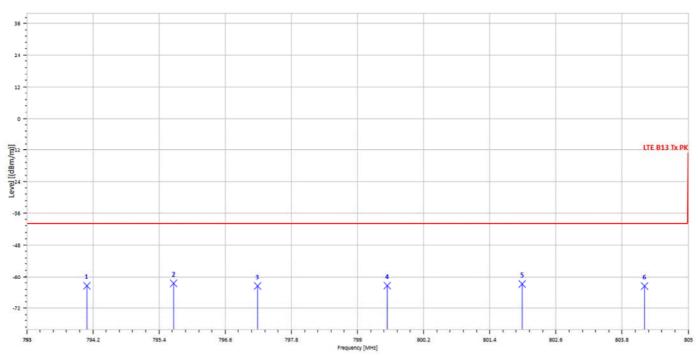


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Operation Mode: **LTEB13 5M QPSK 1.0** Test Date: 2018/4/18

Fundamental Frequency: 779.5 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|--------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 794.09 | S | -63.49 | -59.94 | -1.96 | -1.59 | -40 | -23.49 |
| 795.66 | S | -62.61 | -59.07 | -1.95 | -1.59 | -40 | -22.61 |
| 797.19 | S | -63.55 | -60.03 | -1.93 | -1.60 | -40 | -23.55 |
| 799.54 | S | -63.45 | -59.94 | -1.91 | -1.60 | -40 | -23.45 |
| 801.99 | S | -62.84 | -59.33 | -1.91 | -1.60 | -40 | -22.84 |
| 804.21 | S | -63.60 | -60.08 | -1.91 | -1.60 | -40 | -23.60 |

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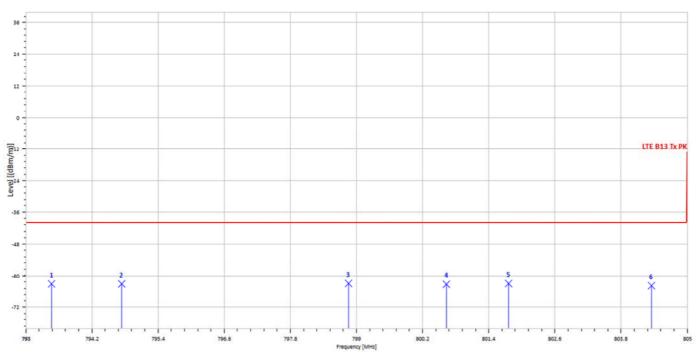


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LTEB13 5M QPSK 1.0 Operation Mode: Test Date: 2018/4/18

Fundamental Frequency: 779.5 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|--------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 793.47 | S | -63.13 | -59.57 | -1.97 | -1.59 | -40 | -23.13 |
| 794.74 | S | -63.14 | -59.59 | -1.96 | -1.59 | -40 | -23.14 |
| 798.86 | S | -62.97 | -59.46 | -1.92 | -1.60 | -40 | -22.97 |
| 800.63 | S | -63.28 | -59.77 | -1.91 | -1.60 | -40 | -23.28 |
| 801.76 | S | -63.02 | -59.51 | -1.91 | -1.60 | -40 | -23.02 |
| 804.35 | S | -63.81 | -60.30 | -1.91 | -1.60 | -40 | -23.81 |

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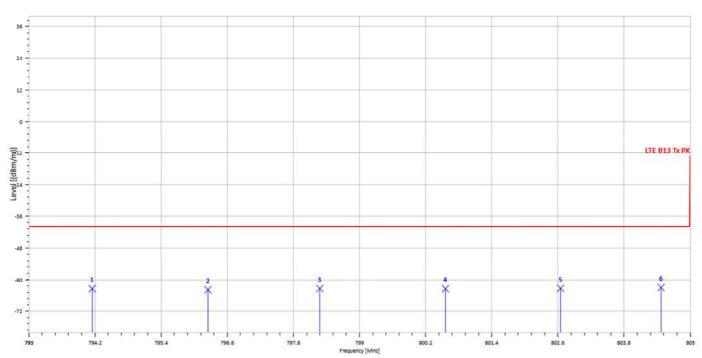


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LTEB13 5M QPSK 1.0 Operation Mode: Test Date: 2018/4/18

Fundamental Frequency: 779.5 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|--------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 794.15 | S | -63.44 | -59.88 | -1.96 | -1.59 | -40 | -23.44 |
| 796.25 | S | -63.86 | -60.33 | -1.94 | -1.59 | -40 | -23.86 |
| 798.28 | S | -63.39 | -59.87 | -1.92 | -1.60 | -40 | -23.39 |
| 800.56 | S | -63.48 | -59.97 | -1.91 | -1.60 | -40 | -23.48 |
| 802.65 | S | -63.32 | -59.80 | -1.91 | -1.60 | -40 | -23.32 |
| 804.47 | S | -63.02 | -59.51 | -1.91 | -1.60 | -40 | -23.02 |

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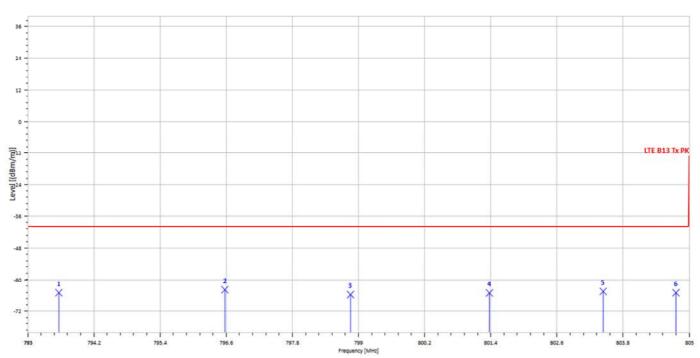


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LTEB13 5M QPSK 1.0 Operation Mode: Test Date: 2018/4/18

Fundamental Frequency: 779.5 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: E2 Measurement Antenna Pol.: Vertical



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|--------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 793.56 | S | -64.94 | -61.39 | -1.97 | -1.59 | -40 | -24.94 |
| 796.58 | S | -63.83 | -60.30 | -1.94 | -1.60 | -40 | -23.83 |
| 798.86 | S | -65.64 | -62.12 | -1.92 | -1.60 | -40 | -25.64 |
| 801.38 | S | -65.04 | -61.53 | -1.91 | -1.60 | -40 | -25.04 |
| 803.44 | S | -64.46 | -60.94 | -1.91 | -1.60 | -40 | -24.46 |
| 804.76 | S | -64.96 | -61.44 | -1.91 | -1.60 | -40 | -24.96 |

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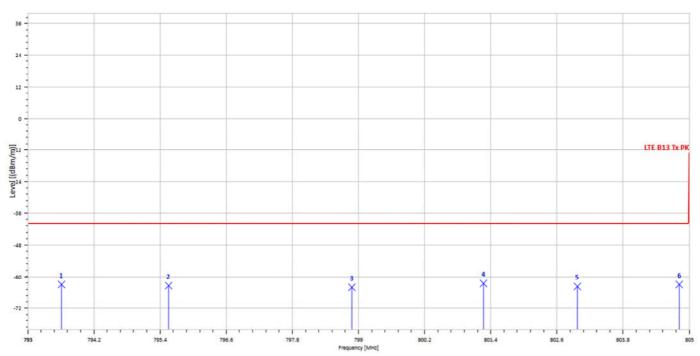


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Operation Mode: **LTEB13 5M QPSK 1.0** Test Date: 2018/4/18

Fundamental Frequency: 779.5 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Jerry EUT Pol.: Measurement Antenna Pol.: E2 Horizontal



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|--------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 793.61 | S | -62.98 | -59.42 | -1.97 | -1.59 | -40 | -22.98 |
| 795.56 | S | -63.41 | -59.87 | -1.95 | -1.59 | -40 | -23.41 |
| 798.88 | S | -64.04 | -60.52 | -1.92 | -1.60 | -40 | -24.04 |
| 801.27 | S | -62.59 | -59.08 | -1.91 | -1.60 | -40 | -22.59 |
| 802.97 | S | -63.73 | -60.22 | -1.91 | -1.60 | -40 | -23.73 |
| 804.82 | S | -62.99 | -59.47 | -1.91 | -1.60 | -40 | -22.99 |

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Operation Mode:

LTEB13 5M QPSK 1.0

Test Date: 2018/7/5

Fundamental Frequency:

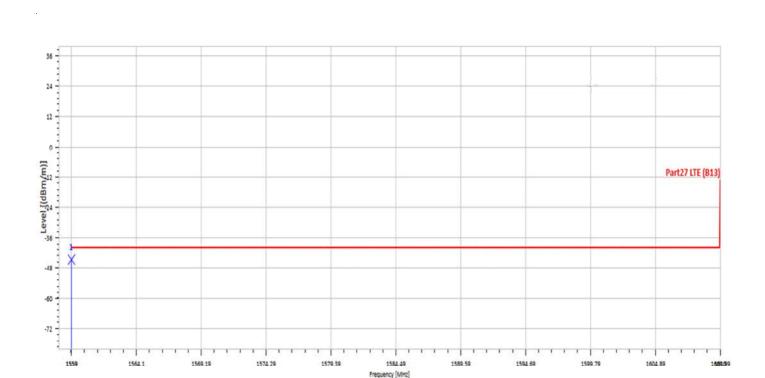
Temp. / Humi.:

22.7deg_C/57RH

Operation Band: EUT Pol.:

779.5 MHz Tx CH Low E2

Test Engineer: Jerry Measurement Antenna Pol.: Vertical



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|--------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 1559.0 | 0 S | -44.67 | -48.83 | 6.54 | -2.38 | -40 | -4.67 |

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Operation Mode:

LTEB13 5M QPSK 1.0

Test Date: 2018/7/5

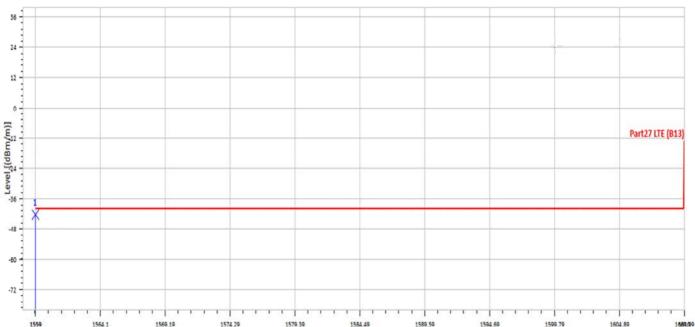
Fundamental Frequency: Operation Band:

779.5 MHz Tx CH Low Temp. / Humi.: 22.7deg_C/57RH Jerry

Test Engineer:

Measurement Antenna Pol.: Horizontal





| | Freq. | Note | EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---|---------|---------|--------|--------------------|-----------------|---------------|--------------|--------|
| | MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| , | 1559.00 | S | -42.37 | -46.53 | 6.54 | -2.38 | -40 | -2.37 |

Frequency [MHz]

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Operation Mode:

LTEB13 5M QPSK 1.0

Test Date: 2018/7/5

Fundamental Frequency: Operation Band:

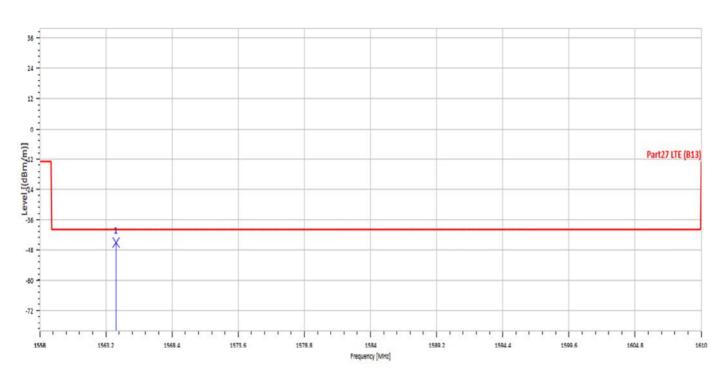
782 MHz Temp. / Humi.: Tx CH Mid

22.7deg_C/57RH

EUT Pol.:

E2

Test Engineer: Jerry Measurement Antenna Pol.: Vertical



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|---------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 1564.00 | Н | -45.04 | -49.19 | 6.54 | -2.38 | -40 | -5.04 |

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Operation Mode:

LTEB13 5M QPSK 1.0

Test Date: 2018/7/5

Fundamental Frequency: Operation Band:

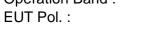
782 MHz Tx CH Mid

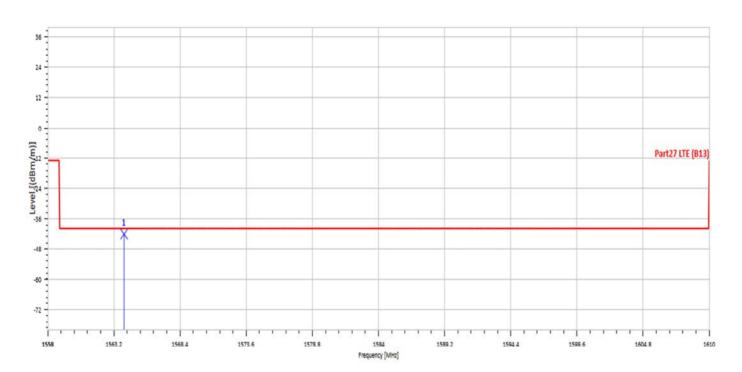
E2

Temp. / Humi.: 22.7deg_C/57RH

Test Engineer:

Jerry Measurement Antenna Pol.: Horizontal





| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|---------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 1564.00 | Н | -42.19 | -46.35 | 6.54 | -2.38 | -40 | -2.19 |

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Operation Mode:

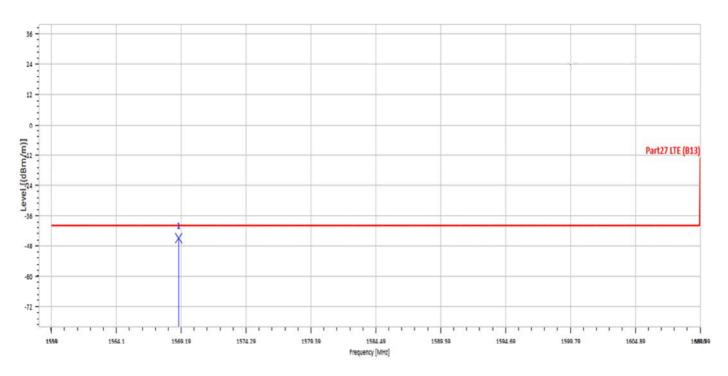
LTEB13 5M QPSK 1.0

Test Date: 2018/7/5

Fundamental Frequency: Operation Band:

784.5 MHz Tx CH High Temp. / Humi.: 22.7deg_C/57RH

EUT Pol.: E2 Test Engineer: Jerry Measurement Antenna Pol.: Vertical



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|---------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 1569.00 | S | -44.89 | -49.07 | 6.57 | -2.39 | -40 | -4.89 |

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Operation Mode:

LTEB13 5M QPSK 1.0

2018/7/5

Fundamental Frequency: Operation Band:

784.5 MHz Tx CH High 22.7deg_C/57RH

Temp. / Humi.: Test Engineer:

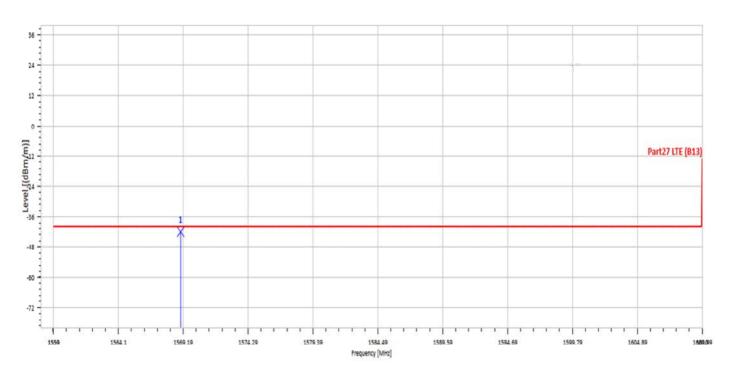
Test Date:

Jerry

EUT Pol.:

E2

Measurement Antenna Pol.: Horizontal



| Freq. | Note | EIRP | SG Output | Antenna | Cable | Limit | Margin |
|---------|---------|--------|-----------|---------|-------|-------|--------|
| | | | Level | Gain | Loss | @3m | |
| MHz | F/H/E/S | dBm | dBm | dBi | dB | dBm/m | dB |
| 1569.00 | S | -42.08 | -46.26 | 6.57 | -2.39 | -40 | -2.08 |

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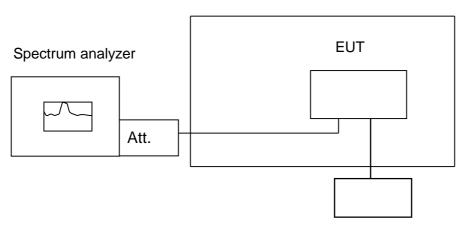
11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

11.2. Test Set-up

Temperature Chamber



Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

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11.3. Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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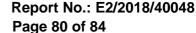
11.4. Measurement Equipment Used

| Conduc | ted Emission (m | neasured at a | antenna port) | Test Site | |
|----------------------------------|-----------------|------------------|--------------------|--------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EXA Spectrum Analyzer | Agilent | N9010A | MY5420071 6 | 2017/10/16 | 2018/10/15 |
| Radio Communica- tion Analyer | Anritsu | MT8820C | 6201465317 | 2018/01/17 | 2019/01/16 |
| Attenuator | Mini-Circuit | BW-S10W2 + | 2 | 2018/01/02 | 2019/1/1 |
| Splitter | RF-LAMBAD | RFLT2W1G 18G | 11-JSPF412 -018 | 2018/01/02 | 2019/1/1 |
| Coaxial Cables | N/A | WK CE Ca- ble | N/A | 2018/01/02 | 2019/1/1 |
| EXA Spectrum Analyzer | Agilent | N9010A | MY5420071 6 | 2017/10/16 | 2018/10/15 |
| Radio Communica- tion Analyer | Anritsu | MT8820C | 6201465317 | 2018/01/17 | 2019/01/16 |
| Attenuator | Mini-Circuit | BW-S10W2 + | 2 | 2018/01/02 | 2019/1/1 |

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11.5. Measurement Result

| | WCDMA V Mid Channel 836.6 MHz | | | | | | | | |
|-----------------------------|-------------------------------|-----------------|------------|------------|--|--|--|--|--|
| | Lim | it: +/- 2.5 ppm | | | | | | | |
| Vdc | Temp. (°℃) | Freq. (MHz) | Delta (Hz) | Limit (Hz) | | | | | |
| FREQUENCY ERROR vs. VOLTAGE | | | | | | | | | |
| 4.37 | 20 | 836600010 | 10 | 2091 | | | | | |
| 3.8 | 20 | 836600020 | 20 | 2091 | | | | | |
| 3.7 | 20 | 836600009 | 9 | 2091 | | | | | |
| 3.6 (End point) | 20 | 836599995 | -5 | 2091 | | | | | |
| FREQUENCY ERROR vs. Temp. | | | | | | | | | |
| 3.8 | 50 | 836600024 | 24 | 2091 | | | | | |
| 3.8 | 40 | 836599978 | -22 | 2091 | | | | | |
| 3.8 | 30 | 836599983 | -17 | 2091 | | | | | |
| 3.8 | 20 | 836599983 | -17 | 2091 | | | | | |
| 3.8 | 10 | 836600020 | 20 | 2091 | | | | | |
| 3.8 | 0 | 836600015 | 15 | 2091 | | | | | |
| 3.8 | -10 | 836600018 | 18 | 2091 | | | | | |
| 3.8 | -20 | 836600007 | 7 | 2091 | | | | | |
| 3.8 | -30 | 836599997 | -3 | 2091 | | | | | |

| Reference Freq.: | | B13 Mid annel | 782 | MHz 10M QPSK CH 23230 | | | | | | | |
|--------------------|-------------------------|------------------|------------|--------------------------|--|--|--|--|--|--|--|
| Power Supply Vdc | Temp. (°C) | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) | | | | | | | |
| | Freq. ERROR vs. VOLTAGE | | | | | | | | | | |
| 4.37 | 25 | 782.000012 | 12 | 1955 | | | | | | | |
| 3.8 | 25 | 781.999994 | -6 | 1955 | | | | | | | |
| 3.7 | 25 | 782.000003 | 3 | 1955 | | | | | | | |
| 3.6 (End Point) | 25 | 781.999995 | -5 | 1955 | | | | | | | |
| | Freq. ERROR vs. Temp. | | | | | | | | | | |
| 3.8 | -30 | 782.000019 | 19 | 1955 | | | | | | | |
| 3.8 | -20 | 782.000011 | 11 | 1955 | | | | | | | |
| 3.8 | -10 | 781.999991 | -9 | 1955 | | | | | | | |
| 3.8 | 0 | 782.000021 | 21 | 1955 | | | | | | | |
| 3.8 | 10 | 782.000000 | 0 | 1955 | | | | | | | |
| 3.8 | 20 | 782.000012 | 12 | 1955 | | | | | | | |
| 3.8 | 30 | 782.000008 | 8 | 1955 | | | | | | | |
| 3.8 | 40 | 782.000018 | 18 | 1955 | | | | | | | |
| 3.8 | 50 | 781.999985 | -15 | 1955 | | | | | | | |

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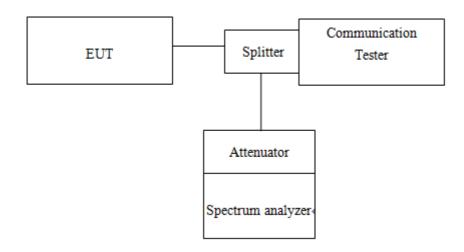
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12. **PEAK TO AVERAGE RATIO**

12.1. Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

12.2. Test SET-UP



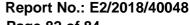
12.3. **Measurement Procedure**

- 1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve.

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12.4. **Measurement Equipment Used**

| Conducted Emission (measured at antenna port) Test Site | | | | | | | | | | |
|---|------------|--------------------|------------------|--------------|------------|--|--|--|--|--|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. | | | | | |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY51440113 | 06/20/2017 | 06/19/2018 | | | | | |
| Communication Tester | Anritsu | MT8820C | 6201107337 | 06/11/2017 | 06/10/2018 | | | | | |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A 195C | RF01 | 12/24/2017 | 12/23/2018 | | | | | |
| Temperature Chamber | TERCHY | MHK-120LK | 1020582 | 06/13/2017 | 06/12/2018 | | | | | |
| DC Block | PASTERNACK | PE8210 | RF29 | 12/24/2017 | 12/23/2018 | | | | | |
| Splitter | RF-LAMBAD | RFLT2W1G1 8G | RF35 | 12/24/2017 | 12/23/2018 | | | | | |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/24/2017 | 12/23/2018 | | | | | |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/02/2017 | 05/01/2018 | | | | | |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY51440113 | 06/20/2017 | 06/19/2018 | | | | | |

12.5. **Measurement Result**

Tabular Results:

| Freq. (MHz) | СН | Peak-to-Average Ratio (dB) WCDMA V |
|----------------|------|---|
| 826.4 | 4132 | 2.99 |
| 836.6 | 4183 | 3.09 |
| 846.6 | 4233 | 2.72 |

| LTE BAND 13 | | | | | | | | | | |
|-------------------------|-------|-----------|--------------------------|-------|-------|-----------|-------|--|--|--|
| Channel bandwidth: 5MHz | | | Channel bandwidth: 10MHz | | | | | | | |
| Freq. CH | | PAPR (dB) | | Freq. | СН | PAPR (dB) | | | | |
| (MHz) | СП | 16QAM | Limit | (MHz) | Сп | 16QAM | Limit | | | |
| 779.5 | 23205 | 5.41 | 13 | 782.0 | 23230 | 4.69 | 13 | | | |
| 782.0 | 23230 | 4.81 | 13 | | | | | | | |
| 784.5 | 23255 | 5.13 | 13 | | | | | | | |

Measurement Results:

Please refer to next page for test plot

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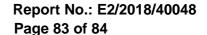
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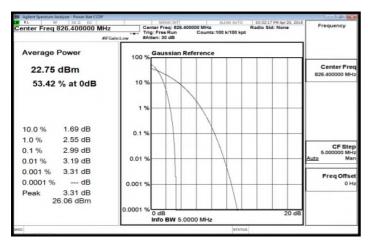
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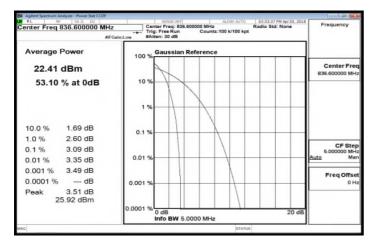




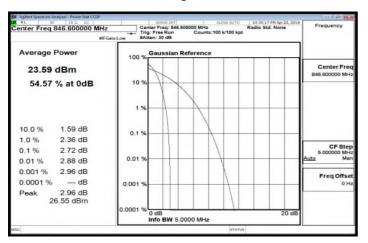
WCDMA B5 LowCH4132-826.4



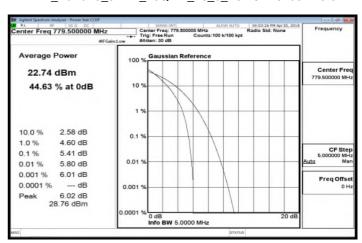
WCDMA B5 MidCH4183-836.6



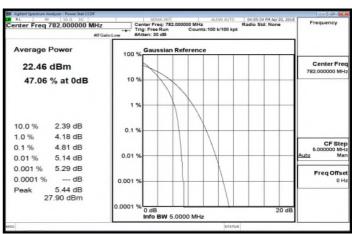
WCDMA_B5_HighCH4233-846.6



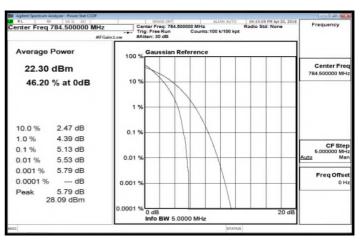
LTE Band13 5MHz 16QAM 25 0 LowCH23205-779.5



LTE Band13 5MHz 16QAM 25 0 MidCH23230-782



LTE_Band13_5MHz_16QAM_25_0_HighCH23255-784.5



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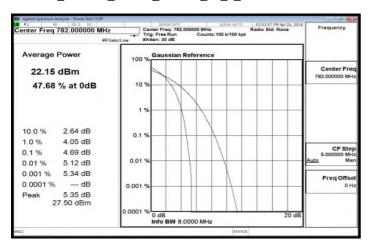
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LTE Band13 10MHz 16QAM 50 0 MidCH23230-782



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