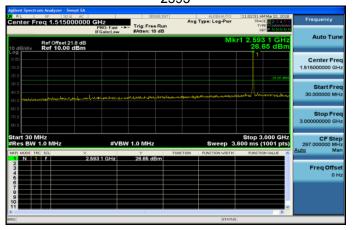




30MHz~3GHz_Band38_5MHz_QPSK_1_0_MidCH38000-2595



3GHz~10GHz_Band38_5MHz_QPSK_1_0_MidCH38000-2595



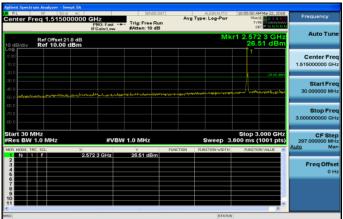
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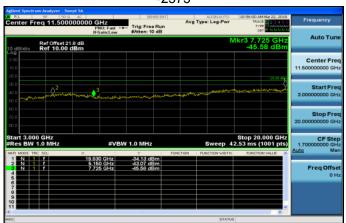
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30MHz~3GHz_Band38_10MHz_QPSK_1_0_LowCH37800 -2575



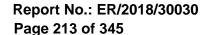
3GHz~10GHz_Band38_10MHz_QPSK_1_0_LowCH37800 -2575



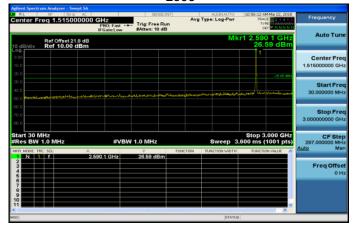
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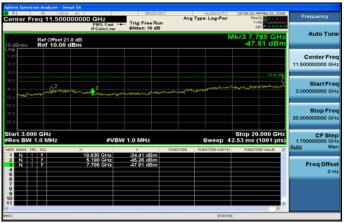
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3GHz~10GHz_Band38_10MHz_QPSK_1_0_MidCH38000 -2595



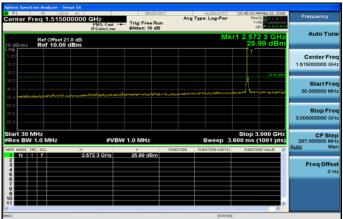
30MHz~3GHz_Band38_10MHz_QPSK_1_0_HighCH3820 0-2615



3GHz~10GHz_Band38_10MHz_QPSK_1_0_HighCH3820 0-2615



30MHz~3GHz_Band38_15MHz_QPSK_1_0_LowCH37825 -2577.5



3GHz~10GHz_Band38_15MHz_QPSK_1_0_LowCH37825 -2577.5

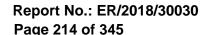


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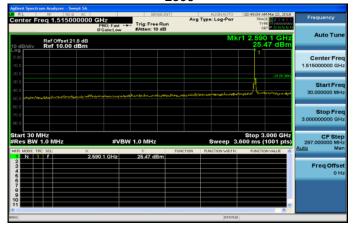
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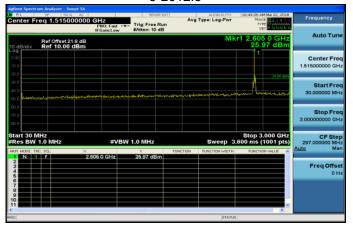




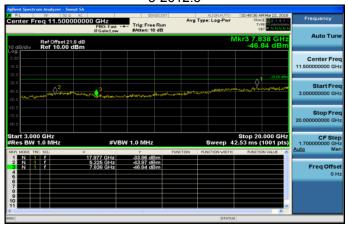
3GHz~10GHz_Band38_15MHz_QPSK_1_0_MidCH38000 -2595

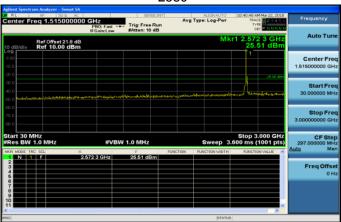


30MHz~3GHz_Band38_15MHz_QPSK_1_0_HighCH3817 5-2612.5



3GHz~10GHz_Band38_15MHz_QPSK_1_0_HighCH3817 5-2612.5





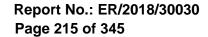


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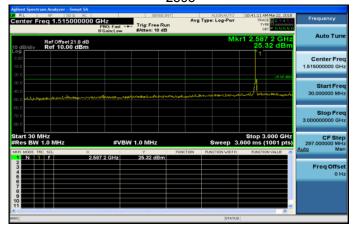
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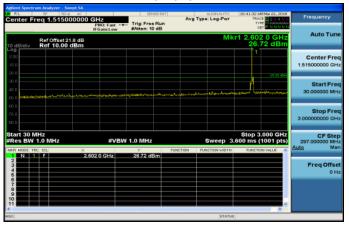
30MHz~3GHz_Band38_20MHz_QPSK_1_0_MidCH38000 -2595



3GHz~10GHz_Band38_20MHz_QPSK_1_0_MidCH38000 -2595



30MHz~3GHz_Band38_20MHz_QPSK_1_0_HighCH3815 0-2610



3GHz~10GHz_Band38_20MHz_QPSK_1_0_HighCH381 50-2610



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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).

FCC §27.53(a)

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(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.

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FCC §27.53(m) (4)

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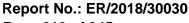
Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber **Equipment**

| 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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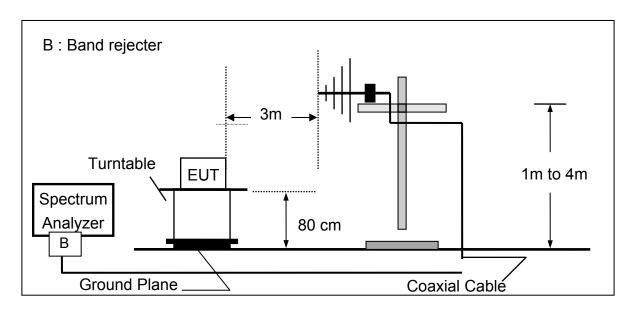




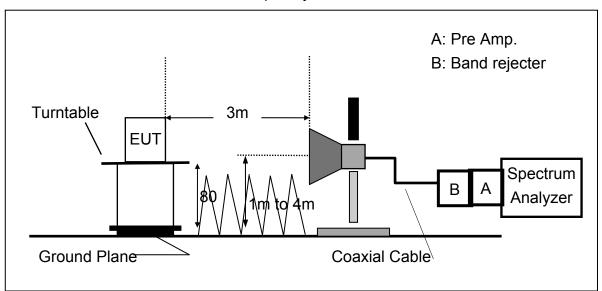
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10.2. EUT Setup

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)

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

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

"---": denotes Noise Floor.

10.4. Measurement Equipment Used:

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|-----------------------------------|---------------|-----------------|------------------|--------------|------------|
| Bi-log Antenna | SCHWAZBECK | VULB9168 | 378 | 2017/12/29 | 2018/12/28 |
| Bi-log Antenna | SCHWAZBECK | VULB9168 | 300 | 2017/12/20 | 2018/12/19 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 309 | 2018/01/04 | 2019/01/03 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1441 | 2017/08/04 | 2018/08/03 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 2017/05/10 | 2018/05/09 |
| EMI Test Receiver | R&S | ESCI7 | 100760 | 2017/06/06 | 2018/06/05 |
| Network Analyzer | Anritsu | MS4644A | 1216312 | 2017/05/25 | 2018/05/24 |
| Radio Communication Analyer | Anritsu | MT8820C | 6201465317 | 2018/01/15 | 2019/01/14 |
| Pre-Amplifier | HP | 8449B | 3008A00578 | 2018/01/02 | 2019/01/01 |
| Pre-Amplifier | HP | 8447D | 2944A07676 | 2018/01/02 | 2019/01/01 |
| Attenuator | Mini-Circuit | BW-S10W2+ | N/A | 2018/01/02 | 2019/01/01 |
| Filter 800-1000 | Micro-Tronics | EWT | M1 | 2018/01/02 | 2019/01/01 |
| 1GHz High Pass Filter | Micro-Tronics | HPM50108 | 32 | 2018/01/02 | 2019/01/01 |
| Low Loss Cable | Huber Suhner | 966_RX | 9 | 2018/01/02 | 2019/01/01 |
| Low Loss Cable | Huber Suhner | 966 TX | 1 | 2018/01/02 | 2019/01/01 |

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10.5. Measurement Result:

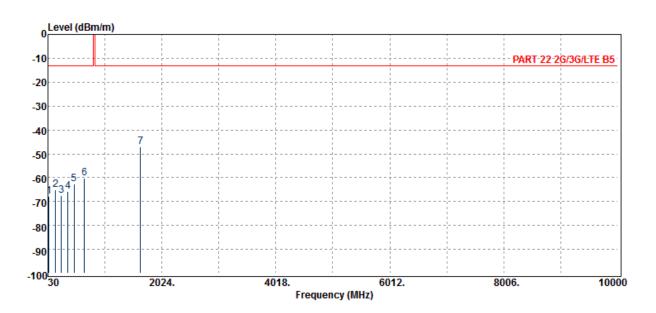
Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Band :GPRS 850 Temp./Humi. :24 deg C / 61 RH

Fundamental Frequen-:824.2 MHz Engineer :Tin

Operation Mode :Tx CH LOW

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|---------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | [.] dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 44.55 | S | -67.93 | -55.12 | -12.12 | -0.69 | -13.00 | -54.93 |
| 160.95 | S | -65.14 | -62.65 | -1.18 | -1.30 | -13.00 | -52.14 |
| 264.74 | S | -67.36 | -69.24 | 3.59 | -1.71 | -13.00 | -54.36 |
| 382.11 | S | -65.90 | -67.64 | 3.76 | -2.02 | -13.00 | -52.90 |
| 488.81 | S | -62.74 | -64.77 | 3.94 | -1.91 | -13.00 | -49.74 |
| 668.26 | S | -60.05 | -61.65 | 3.77 | -2.17 | -13.00 | -47.05 |
| 1648.40 | Н | -47.04 | -49.66 | 6.97 | -4.35 | -13.00 | -34.04 |

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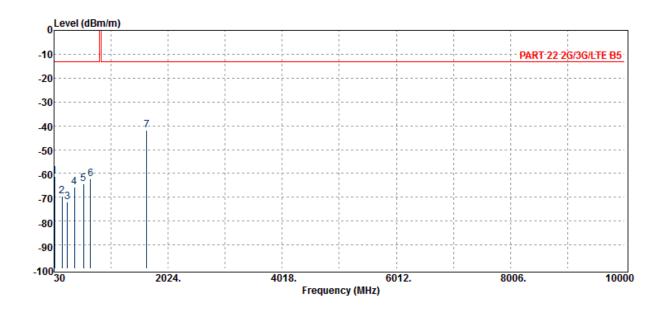
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Operation Band :GPRS 850 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:824.2 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| • | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 39.70 | S | -61.12 | -47.74 | -12.72 | -0.66 | -13.00 | -48.12 |
| 170.65 | S | -69.63 | -67.78 | -0.51 | -1.33 | -13.00 | -56.63 |
| 265.71 | S | -72.10 | -73.97 | 3.57 | -1.71 | -13.00 | -59.10 |
| 386.96 | S | -65.82 | -67.55 | 3.75 | -2.02 | -13.00 | -52.82 |
| 548.95 | S | -64.46 | -66.47 | 3.98 | -1.97 | -13.00 | -51.46 |
| 667.29 | S | -62.27 | -63.94 | 3.78 | -2.11 | -13.00 | -49.27 |
| 1648.40 | Н | -42.02 | -44.65 | 6.97 | -4.35 | -13.00 | -29.02 |

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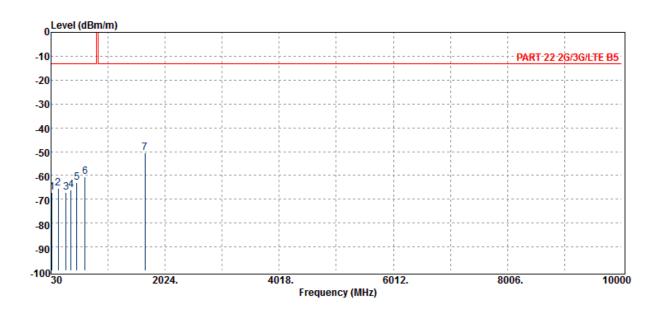
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Operation Band :GPRS 850 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:836.6 MHz :Tin Engineer

Operation Mode :Tx CH MID

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 46.49 | S | -67.21 | -54.69 | -11.81 | -0.71 | -13.00 | -54.21 |
| 156.10 | S | -65.53 | -62.77 | -1.46 | -1.30 | -13.00 | -52.53 |
| 291.90 | S | -67.02 | -68.69 | 3.46 | -1.79 | -13.00 | -54.02 |
| 382.11 | S | -66.19 | -67.94 | 3.76 | -2.02 | -13.00 | -53.19 |
| 483.96 | S | -63.00 | -65.04 | 3.89 | -1.85 | -13.00 | -50.00 |
| 624.61 | S | -60.45 | -61.34 | 3.68 | -2.80 | -13.00 | -47.45 |
| 1673.20 | Н | -50.44 | -53.11 | 7.06 | -4.39 | -13.00 | -37.44 |

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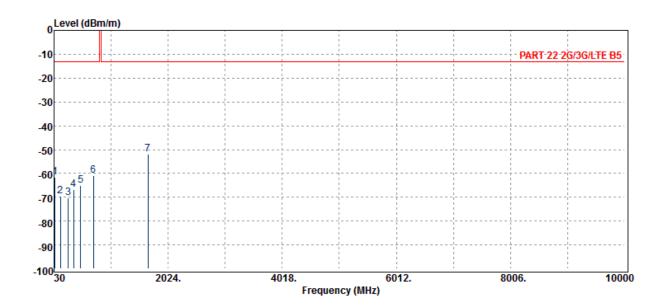
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Operation Band :GPRS 850 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:836.6 MHz :Tin Engineer

Operation Mode :Tx CH MID

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 44.55 | S | -61.66 | -48.86 | -12.12 | -0.69 | -13.00 | -48.66 |
| 139.61 | S | -69.66 | -66.11 | -2.29 | -1.26 | -13.00 | -56.66 |
| 280.26 | S | -70.31 | -71.98 | 3.42 | -1.75 | -13.00 | -57.31 |
| 374.35 | S | -66.93 | -68.68 | 3.78 | -2.04 | -13.00 | -53.93 |
| 492.69 | S | -64.88 | -66.85 | 3.98 | -2.01 | -13.00 | -51.88 |
| 720.64 | S | -60.74 | -61.56 | 3.59 | -2.78 | -13.00 | -47.74 |
| 1673.20 | Н | -51.82 | -54.48 | 7.06 | -4.39 | -13.00 | -38.82 |

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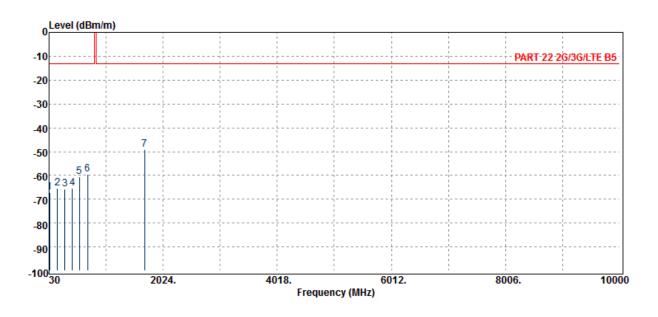
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Operation Band :GPRS 850 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:848.8 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 41.64 | S | -66.99 | -53.84 | -12.47 | -0.67 | -13.00 | -53.99 |
| 175.50 | S | -65.47 | -64.38 | 0.27 | -1.36 | -13.00 | -52.47 |
| 311.30 | S | -65.85 | -67.67 | 3.67 | -1.86 | -13.00 | -52.85 |
| 440.31 | S | -65.45 | -67.06 | 3.57 | -1.95 | -13.00 | -52.45 |
| 560.59 | S | -60.68 | -61.96 | 3.88 | -2.61 | -13.00 | -47.68 |
| 706.09 | S | -59.47 | -61.25 | 3.65 | -1.87 | -13.00 | -46.47 |
| 1697.60 | Н | -49.08 | -51.79 | 7.14 | -4.43 | -13.00 | -36.08 |

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Operation Mode

Report No.: ER/2018/30030

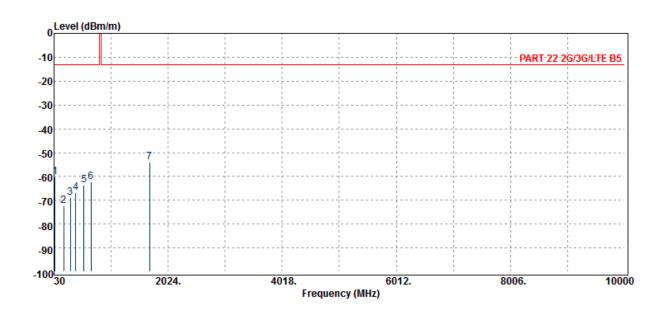
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Operation Band :GPRS 850 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:848.8 MHz :Tin Engineer

:Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 46.49 | S | -60.28 | -47.76 | -11.81 | -0.71 | -13.00 | -47.28 |
| 202.66 | S | -72.33 | -74.11 | 3.26 | -1.49 | -13.00 | -59.33 |
| 316.15 | S | -68.92 | -70.75 | 3.70 | -1.86 | -13.00 | -55.92 |
| 406.36 | S | -66.82 | -68.36 | 3.69 | -2.15 | -13.00 | -53.82 |
| 551.86 | S | -63.81 | -65.64 | 3.96 | -2.13 | -13.00 | -50.81 |
| 672.14 | S | -62.21 | -63.53 | 3.76 | -2.45 | -13.00 | -49.21 |
| 1697.60 | Н | -53.96 | -56.67 | 7.14 | -4.43 | -13.00 | -40.96 |

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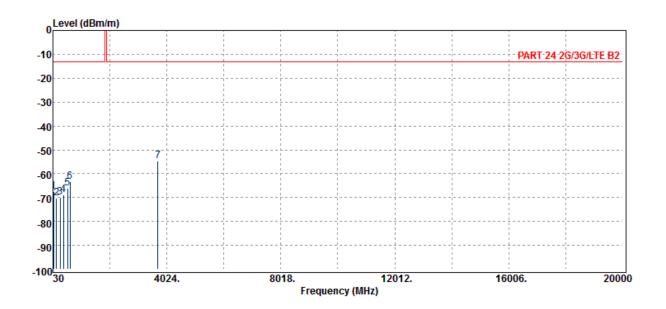
Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Band :GPRS 1900 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1850.2 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 57.16 | S | -67.45 | -59.08 | -7.29 | -1.07 | -13.00 | -54.45 |
| 151.25 | S | -70.14 | -68.82 | 0.11 | -1.44 | -13.00 | -57.14 |
| 277.35 | S | -69.73 | -73.46 | 5.60 | -1.86 | -13.00 | -56.73 |
| 393.75 | S | -68.98 | -72.62 | 5.98 | -2.34 | -13.00 | -55.98 |
| 543.13 | S | -65.93 | -69.07 | 5.77 | -2.63 | -13.00 | -52.93 |
| 636.25 | S | -63.25 | -66.12 | 5.32 | -2.45 | -13.00 | -50.25 |
| 3700.40 | Н | -54.72 | -60.58 | 12.44 | -6.58 | -13.00 | -41.72 |

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Operation Mode

Report No.: ER/2018/30030

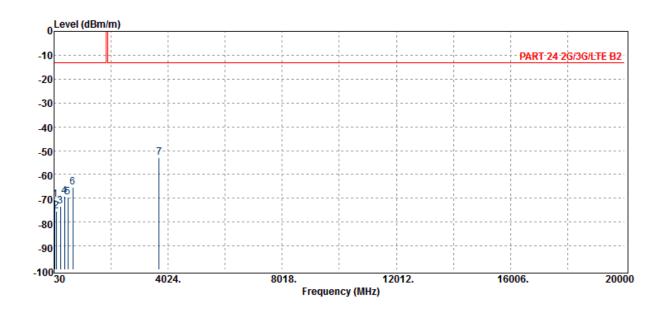
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Operation Band :GPRS 1900 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1850.2 MHz :Tin Engineer

:Tx CH LOW

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| • | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 60.07 | S | -70.47 | -62.80 | -6.59 | -1.08 | -13.00 | -57.47 |
| 116.33 | S | -75.32 | -73.70 | -0.31 | -1.31 | -13.00 | -62.32 |
| 257.95 | S | -73.50 | -77.51 | 5.78 | -1.77 | -13.00 | -60.50 |
| 397.63 | S | -69.30 | -72.91 | 5.97 | -2.37 | -13.00 | -56.30 |
| 510.15 | S | -69.43 | -73.04 | 5.95 | -2.34 | -13.00 | -56.43 |
| 694.45 | S | -65.43 | -67.79 | 5.24 | -2.88 | -13.00 | -52.43 |
| 3700.40 | Н | -53.08 | -58.94 | 12.44 | -6.58 | -13.00 | -40.08 |

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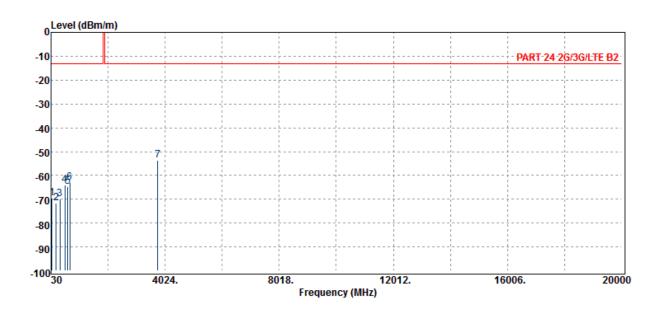
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Operation Band :GPRS 1900 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1880 MHz :Tin Engineer

Operation Mode :Tx CH MID

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| • | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 70.74 | S | -69.62 | -64.97 | -3.53 | -1.12 | -13.00 | -56.62 |
| 204.60 | S | -71.58 | -75.38 | 5.45 | -1.65 | -13.00 | -58.58 |
| 335.55 | S | -69.83 | -73.84 | 5.95 | -1.93 | -13.00 | -56.83 |
| 510.15 | S | -64.11 | -67.72 | 5.95 | -2.34 | -13.00 | -51.11 |
| 609.09 | S | -64.66 | -67.39 | 5.37 | -2.65 | -13.00 | -51.66 |
| 694.45 | S | -63.04 | -65.40 | 5.24 | -2.88 | -13.00 | -50.04 |
| 3760.00 | Н | -53.66 | -59.51 | 12.45 | -6.60 | -13.00 | -40.66 |

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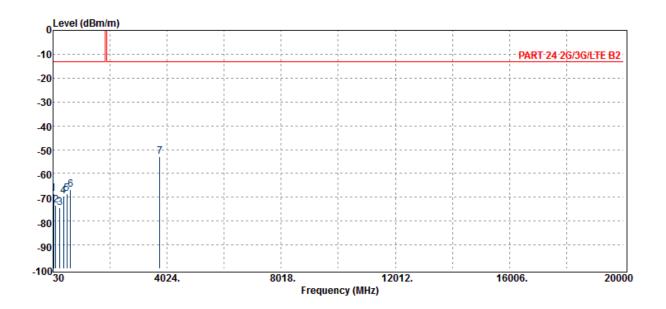
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Operation Band :GPRS 1900 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1880 MHz :Tin Engineer

Operation Mode :Tx CH MID

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 56.19 | S | -68.35 | -59.74 | -7.54 | -1.07 | -13.00 | -55.35 |
| 127.00 | S | -73.44 | -71.66 | -0.43 | -1.35 | -13.00 | -60.44 |
| 268.62 | S | -74.31 | -78.17 | 5.68 | -1.82 | -13.00 | -61.31 |
| 399.57 | S | -69.61 | -73.20 | 5.97 | -2.38 | -13.00 | -56.61 |
| 511.12 | S | -68.44 | -72.04 | 5.95 | -2.35 | -13.00 | -55.44 |
| 643.04 | S | -66.76 | -69.63 | 5.30 | -2.43 | -13.00 | -53.76 |
| 3760.00 | Н | -53.00 | -58.86 | 12.45 | -6.60 | -13.00 | -40.00 |

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Operation Mode

Report No.: ER/2018/30030

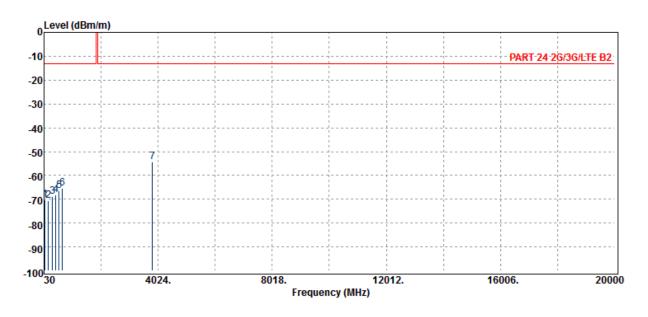
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Operation Band :GPRS 1900 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1909.8 MHz :Tin Engineer

:Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|---------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 70.74 | S | -70.09 | -65.45 | -3.53 | -1.12 | -13.00 | -57.09 |
| 181.32 | S | -70.70 | -72.40 | 3.26 | -1.57 | -13.00 | -57.70 |
| 327.79 | S | -68.95 | -72.95 | 5.91 | -1.92 | -13.00 | -55.95 |
| 449.04 | S | -68.27 | -71.88 | 5.80 | -2.19 | -13.00 | -55.27 |
| 556.71 | S | -66.32 | -69.26 | 5.69 | -2.75 | -13.00 | -53.32 |
| 672.14 | S | -65.50 | -68.29 | 5.26 | -2.47 | -13.00 | -52.50 |
| 3819.60 | Н | -54.44 | -60.25 | 12.47 | -6.65 | -13.00 | -41.44 |

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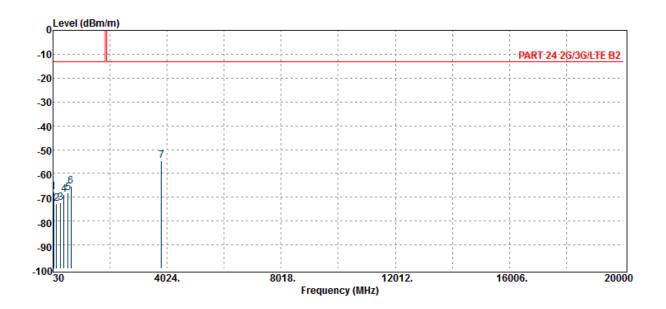
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Operation Band :GPRS 1900 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1909.8 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 52.31 | S | -67.70 | -58.10 | -8.55 | -1.05 | -13.00 | -54.70 |
| 147.37 | S | -72.65 | -71.13 | -0.10 | -1.42 | -13.00 | -59.65 |
| 296.75 | S | -72.47 | -76.23 | 5.71 | -1.95 | -13.00 | -59.47 |
| 406.36 | S | -69.01 | -72.54 | 5.95 | -2.42 | -13.00 | -56.01 |
| 554.77 | S | -68.19 | -71.14 | 5.70 | -2.75 | -13.00 | -55.19 |
| 655.65 | S | -65.51 | -68.40 | 5.28 | -2.39 | -13.00 | -52.51 |
| 3819.60 | Н | -54.57 | -60.39 | 12.47 | -6.65 | -13.00 | -41.57 |

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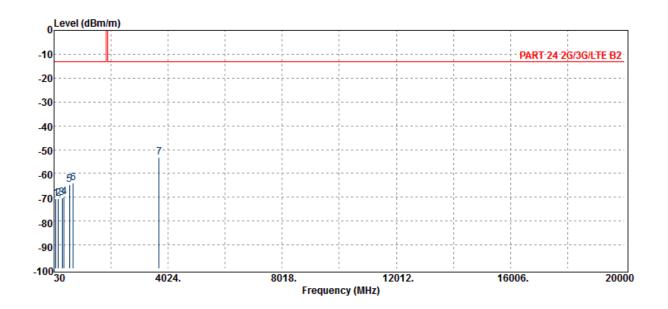
Radiated Spurious Emission Measurement Result: HSDPA Band 2 Mode

Operation Band :HSDPA B2 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1852.4 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 96.93 | S | -70.74 | -70.39 | 0.88 | -1.24 | -13.00 | -57.74 |
| 174.53 | S | -70.53 | -71.06 | 2.07 | -1.54 | -13.00 | -57.53 |
| 313.24 | S | -70.11 | -74.02 | 5.84 | -1.93 | -13.00 | -57.11 |
| 389.87 | S | -69.75 | -73.41 | 5.98 | -2.32 | -13.00 | -56.75 |
| 569.32 | S | -64.82 | -67.65 | 5.60 | -2.77 | -13.00 | -51.82 |
| 701.24 | S | -63.99 | -66.22 | 5.23 | -3.00 | -13.00 | -50.99 |
| 3704.80 | Н | -53.41 | -59.27 | 12.44 | -6.58 | -13.00 | -40.41 |

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Operation Mode

Report No.: ER/2018/30030

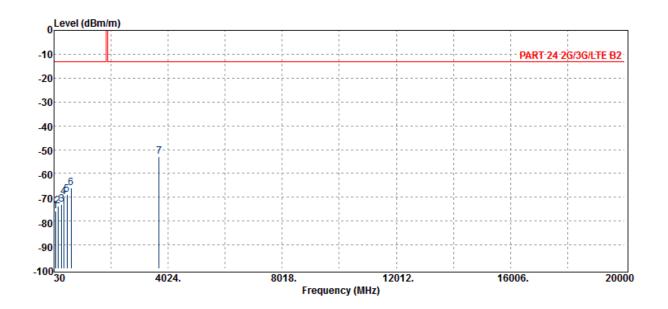
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Operation Band :HSDPA B2 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1852.4 MHz :Tin Engineer

:Tx CH LOW

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 75.59 | S | -75.68 | -72.53 | -2.01 | -1.14 | -13.00 | -62.68 |
| 161.92 | S | -73.82 | -72.99 | 0.66 | -1.48 | -13.00 | -60.82 |
| 300.63 | S | -73.07 | -76.90 | 5.78 | -1.94 | -13.00 | -60.07 |
| 370.47 | S | -70.05 | -73.84 | 5.99 | -2.20 | -13.00 | -57.05 |
| 487.84 | S | -68.85 | -72.54 | 5.96 | -2.26 | -13.00 | -55.85 |
| 622.67 | S | -66.14 | -68.96 | 5.34 | -2.53 | -13.00 | -53.14 |
| 3704.80 | Н | -53.06 | -58.92 | 12.44 | -6.58 | -13.00 | -40.06 |

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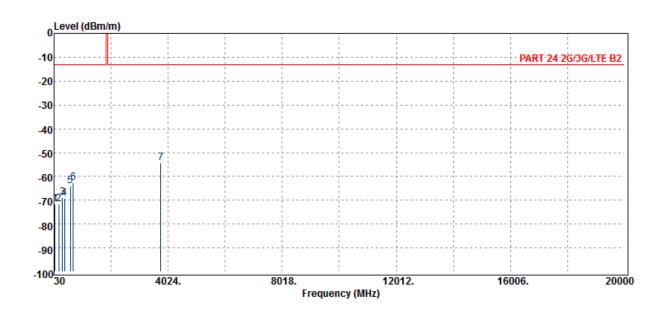
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Operation Band :HSDPA B2 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1880 MHz :Tin Engineer

Operation Mode :Tx CH MID

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 70.74 | S | -71.61 | -66.97 | -3.53 | -1.12 | -13.00 | -58.61 |
| 197.81 | S | -71.63 | -75.13 | 5.13 | -1.63 | -13.00 | -58.63 |
| 326.82 | S | -68.79 | -72.78 | 5.91 | -1.92 | -13.00 | -55.79 |
| 393.75 | S | -69.26 | -72.90 | 5.98 | -2.34 | -13.00 | -56.26 |
| 605.21 | S | -64.04 | -66.74 | 5.38 | -2.68 | -13.00 | -51.04 |
| 704.15 | S | -62.79 | -65.00 | 5.24 | -3.03 | -13.00 | -49.79 |
| 3760.00 | Н | -54.18 | -60.03 | 12.45 | -6.60 | -13.00 | -41.18 |

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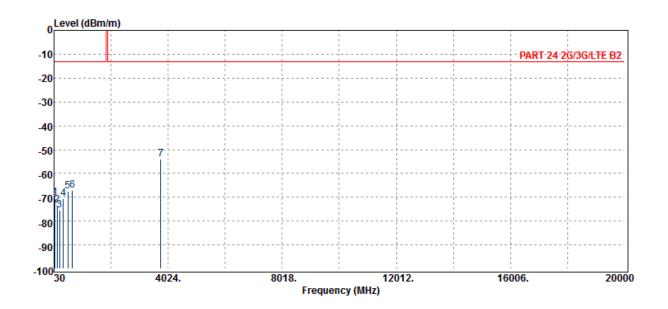
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Operation Band :HSDPA B2 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1880 MHz :Tin Engineer

Operation Mode :Tx CH MID

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 61.04 | S | -70.22 | -62.84 | -6.29 | -1.09 | -13.00 | -57.22 |
| 142.52 | S | -73.25 | -71.46 | -0.39 | -1.40 | -13.00 | -60.25 |
| 231.76 | S | -75.36 | -78.93 | 5.29 | -1.73 | -13.00 | -62.36 |
| 354.95 | S | -70.55 | -74.47 | 6.01 | -2.09 | -13.00 | -57.55 |
| 516.94 | S | -67.54 | -71.09 | 5.91 | -2.37 | -13.00 | -54.54 |
| 674.08 | S | -67.28 | -70.03 | 5.26 | -2.51 | -13.00 | -54.28 |
| 3760.00 | Н | -53.89 | -59.74 | 12.45 | -6.60 | -13.00 | -40.89 |

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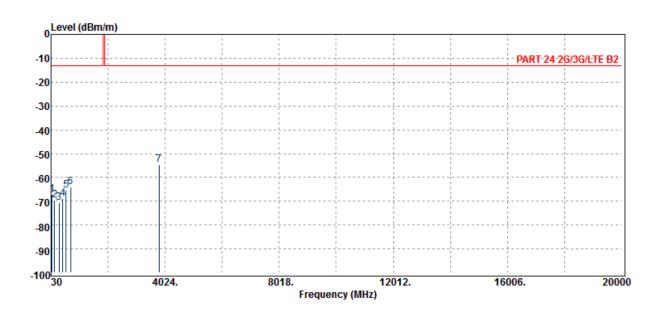


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Operation Band :HSDPA B2 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1907.6 MHz :Tin Engineer

:Tx CH HIGH **Operation Mode** Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 63.95 | S | -67.16 | -60.63 | -5.43 | -1.10 | -13.00 | -54.16 |
| 154.16 | S | -69.67 | -68.47 | 0.25 | -1.45 | -13.00 | -56.67 |
| 311.30 | S | -70.60 | -74.50 | 5.83 | -1.93 | -13.00 | -57.60 |
| 436.43 | S | -68.71 | -72.33 | 5.84 | -2.23 | -13.00 | -55.71 |
| 553.80 | S | -65.49 | -68.47 | 5.71 | -2.74 | -13.00 | -52.49 |
| 710.94 | S | -64.17 | -66.38 | 5.25 | -3.05 | -13.00 | -51.17 |
| 3815.20 | Н | -54.53 | -60.36 | 12.46 | -6.63 | -13.00 | -41.53 |

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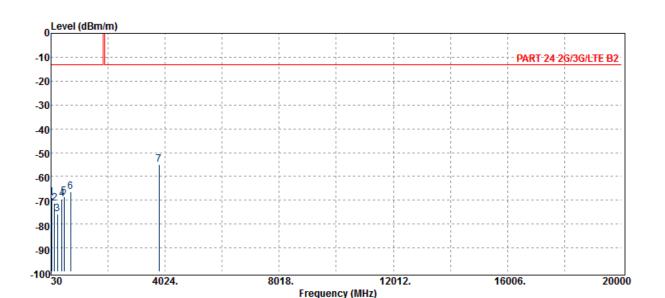
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Operation Band :HSDPA B2 Temp./Humi. :22 deg_C / 61 RH

Fundamental Frequen-:1907.6 MHz :Tin Engineer

:Tx CH HIGH **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|---------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 56.19 | S | -68.87 | -60.26 | -7.54 | -1.07 | -13.00 | -55.87 |
| 149.31 | S | -71.38 | -69.96 | 0.01 | -1.43 | -13.00 | -58.38 |
| 250.19 | S | -75.62 | -79.46 | 5.59 | -1.76 | -13.00 | -62.62 |
| 413.15 | S | -69.71 | -73.25 | 5.92 | -2.38 | -13.00 | -56.71 |
| 487.84 | S | -68.40 | -72.09 | 5.96 | -2.26 | -13.00 | -55.40 |
| 712.88 | S | -66.35 | -68.54 | 5.26 | -3.06 | -13.00 | -53.35 |
| 3815.20 | Н | -54.97 | -60.80 | 12.46 | -6.63 | -13.00 | -41.97 |

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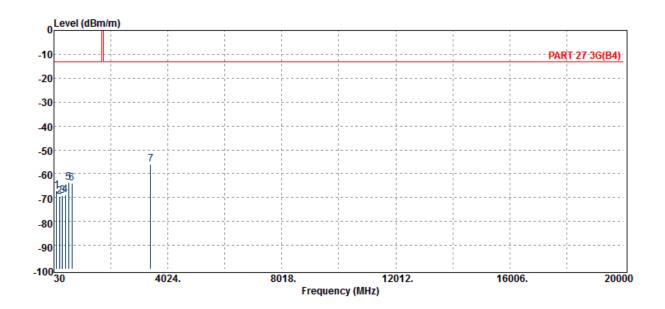
Radiated Spurious Emission Measurement Result: HSUPA Band 4 Mode

Operation Band :HSUPA B4 Temp./Humi. :22 deg_C / 62 RH

Fundamental Frequen-:1712.4 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 122.15 | S | -67.29 | -65.63 | -0.33 | -1.33 | -13.00 | -54.29 |
| 223.03 | S | -69.59 | -73.29 | 5.41 | -1.71 | -13.00 | -56.59 |
| 327.79 | S | -69.31 | -73.31 | 5.91 | -1.92 | -13.00 | -56.31 |
| 422.85 | S | -68.75 | -72.32 | 5.89 | -2.31 | -13.00 | -55.75 |
| 542.16 | S | -63.59 | -66.74 | 5.78 | -2.62 | -13.00 | -50.59 |
| 651.77 | S | -64.10 | -66.99 | 5.29 | -2.40 | -13.00 | -51.10 |
| 3424.80 | Н | -56.21 | -62.25 | 12.27 | -6.23 | -13.00 | -43.21 |

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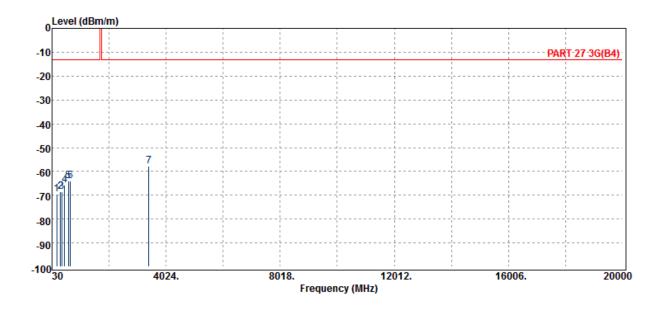
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Operation Band :HSUPA B4 Temp./Humi. :22 deg_C / 62 RH

Fundamental Frequen-:1712.4 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 189.08 | S | -69.59 | -72.55 | 4.56 | -1.60 | -13.00 | -56.59 |
| 322.94 | S | -68.44 | -72.41 | 5.89 | -1.92 | -13.00 | -55.44 |
| 364.65 | S | -68.39 | -72.23 | 6.00 | -2.16 | -13.00 | -55.39 |
| 474.26 | S | -65.66 | -69.33 | 5.90 | -2.23 | -13.00 | -52.66 |
| 605.21 | S | -64.00 | -66.70 | 5.38 | -2.68 | -13.00 | -51.00 |
| 669.23 | S | -63.86 | -66.71 | 5.27 | -2.42 | -13.00 | -50.86 |
| 3424.80 | Н | -57.93 | -63.97 | 12.27 | -6.23 | -13.00 | -44.93 |

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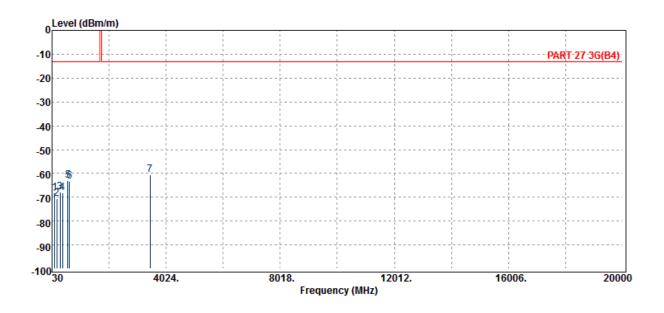
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Operation Band :HSUPA B4 Temp./Humi. :22 deg_C / 62 RH

Fundamental Frequen-:1732.6 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 120.21 | S | -68.15 | -66.54 | -0.29 | -1.33 | -13.00 | -55.15 |
| 194.90 | S | -70.70 | -74.06 | 4.98 | -1.62 | -13.00 | -57.70 |
| 307.42 | S | -67.83 | -71.71 | 5.81 | -1.94 | -13.00 | -54.83 |
| 401.51 | S | -68.32 | -71.89 | 5.97 | -2.39 | -13.00 | -55.32 |
| 580.96 | S | -62.92 | -65.66 | 5.52 | -2.79 | -13.00 | -49.92 |
| 644.01 | S | -63.32 | -66.20 | 5.30 | -2.42 | -13.00 | -50.32 |
| 3465.20 | Н | -60.56 | -66.65 | 12.34 | -6.25 | -13.00 | -47.56 |

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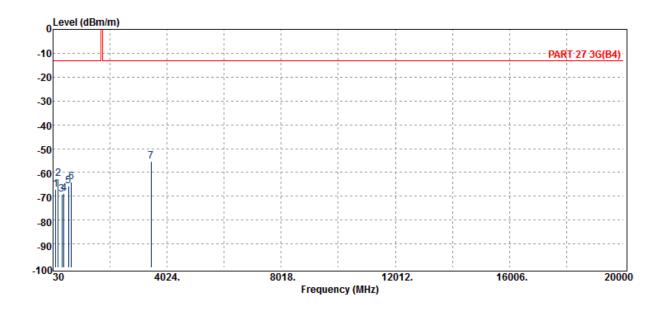
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Operation Band :HSUPA B4 Temp./Humi. :22 deg_C / 62 RH

Fundamental Frequen-:1732.6 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 124.09 | S | -67.17 | -65.46 | -0.37 | -1.34 | -13.00 | -54.17 |
| 214.30 | S | -62.69 | -66.59 | 5.59 | -1.68 | -13.00 | -49.69 |
| 342.34 | S | -69.17 | -73.16 | 5.98 | -1.99 | -13.00 | -56.17 |
| 410.24 | S | -68.89 | -72.42 | 5.93 | -2.40 | -13.00 | -55.89 |
| 565.44 | S | -65.73 | -68.59 | 5.63 | -2.76 | -13.00 | -52.73 |
| 666.32 | S | -64.09 | -67.00 | 5.27 | -2.37 | -13.00 | -51.09 |
| 3465.20 | Н | -55.34 | -61.44 | 12.34 | -6.25 | -13.00 | -42.34 |

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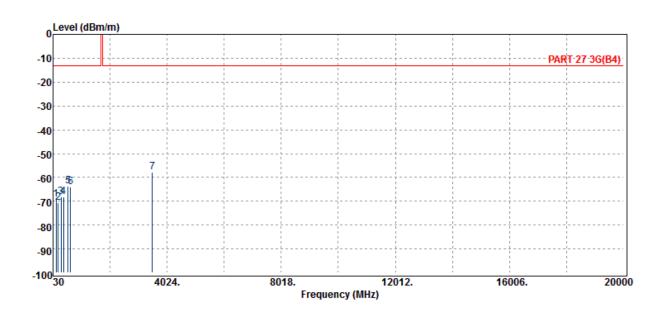
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Operation Band :HSUPA B4 Temp./Humi. :22 deg_C / 62 RH

Fundamental Frequen-:1752.6 MHz :Tin Engineer

:Tx CH HIGH **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 142.52 | S | -69.23 | -67.43 | -0.39 | -1.40 | -13.00 | -56.23 |
| 209.45 | S | -70.54 | -74.53 | 5.65 | -1.67 | -13.00 | -57.54 |
| 318.09 | S | -68.17 | -72.10 | 5.86 | -1.93 | -13.00 | -55.17 |
| 394.72 | S | -68.29 | -71.92 | 5.98 | -2.35 | -13.00 | -55.29 |
| 556.71 | S | -63.68 | -66.61 | 5.69 | -2.75 | -13.00 | -50.68 |
| 644.01 | S | -64.14 | -67.01 | 5.30 | -2.42 | -13.00 | -51.14 |
| 3505.20 | Н | -57.82 | -63.76 | 12.40 | -6.47 | -13.00 | -44.82 |

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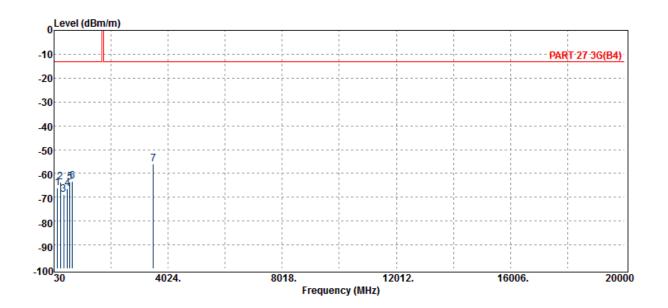
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Operation Band :HSUPA B4 Temp./Humi. :22 deg_C / 62 RH

Fundamental Frequen-:1752.6 MHz :Tin Engineer

:Tx CH HIGH **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 157.07 | S | -65.93 | -64.85 | 0.38 | -1.46 | -13.00 | -52.93 |
| 259.89 | S | -63.50 | -67.55 | 5.83 | -1.77 | -13.00 | -50.50 |
| 368.53 | S | -68.73 | -72.54 | 6.00 | -2.19 | -13.00 | -55.73 |
| 501.42 | S | -66.49 | -70.18 | 6.00 | -2.31 | -13.00 | -53.49 |
| 589.69 | S | -63.58 | -66.25 | 5.46 | -2.80 | -13.00 | -50.58 |
| 678.93 | S | -63.30 | -65.95 | 5.26 | -2.60 | -13.00 | -50.30 |
| 3505.20 | Н | -56.00 | -61.93 | 12.40 | -6.47 | -13.00 | -43.00 |

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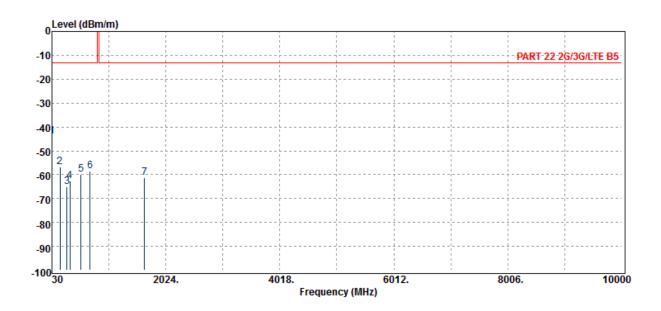
Radiated Spurious Emission Measurement Result: HSUPA Band 5 Mode

Operation Band :HSDPA B5 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:826.4 MHz Engineer :Tin

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 31.94 | S | -44.60 | -29.93 | -14.08 | -0.59 | -13.00 | -31.60 |
| 168.71 | S | -57.82 | -55.79 | -0.70 | -1.33 | -13.00 | -44.82 |
| 296.75 | S | -65.89 | -67.63 | 3.55 | -1.81 | -13.00 | -52.89 |
| 347.19 | S | -63.10 | -64.92 | 3.84 | -2.02 | -13.00 | -50.10 |
| 536.34 | S | -60.47 | -62.36 | 4.00 | -2.11 | -13.00 | -47.47 |
| 694.45 | S | -58.80 | -59.88 | 3.69 | -2.61 | -13.00 | -45.80 |
| 1652.80 | Н | -61.85 | -64.48 | 6.99 | -4.36 | -13.00 | -48.85 |

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t (886-2) 2299-3279



Operation Mode

Report No.: ER/2018/30030

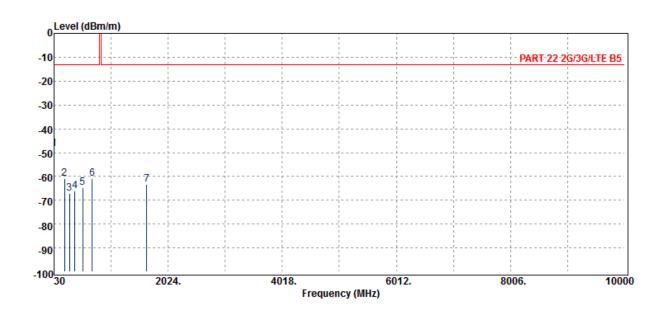
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Operation Band :HSDPA B5 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:826.4 MHz :Tin Engineer

:Tx CH LOW

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 31.94 | S | -49.35 | -34.68 | -14.08 | -0.59 | -13.00 | -36.35 |
| 216.24 | S | -60.80 | -62.71 | 3.47 | -1.56 | -13.00 | -47.80 |
| 299.66 | S | -67.78 | -69.57 | 3.61 | -1.82 | -13.00 | -54.78 |
| 395.69 | S | -66.44 | -68.09 | 3.73 | -2.08 | -13.00 | -53.44 |
| 531.49 | S | -65.33 | -67.03 | 4.01 | -2.31 | -13.00 | -52.33 |
| 699.30 | S | -61.54 | -62.98 | 3.68 | -2.24 | -13.00 | -48.54 |
| 1652.80 | Н | -63.52 | -66.15 | 6.99 | -4.36 | -13.00 | -50.52 |

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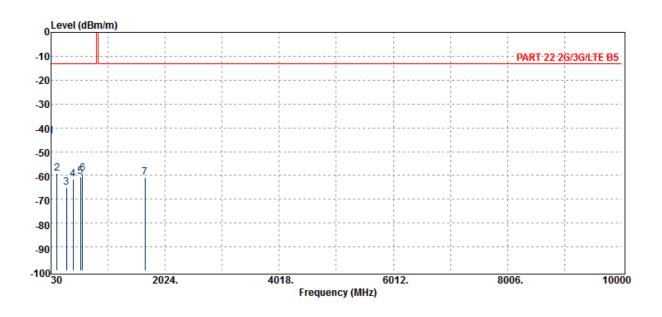
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Operation Band :HSDPA B5 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:836.6 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 31.95 | S | -44.22 | -29.55 | -14.08 | -0.59 | -13.00 | -31.22 |
| 136.71 | S | -60.12 | -56.69 | -2.19 | -1.24 | -13.00 | -47.12 |
| 298.70 | S | -65.79 | -67.56 | 3.59 | -1.82 | -13.00 | -52.79 |
| 415.10 | S | -62.45 | -63.99 | 3.66 | -2.12 | -13.00 | -49.45 |
| 544.14 | S | -60.96 | -63.16 | 3.99 | -1.79 | -13.00 | -47.96 |
| 582.91 | S | -60.23 | -61.61 | 3.68 | -2.30 | -13.00 | -47.23 |
| 1673.20 | Н | -61.19 | -63.86 | 7.06 | -4.39 | -13.00 | -48.19 |

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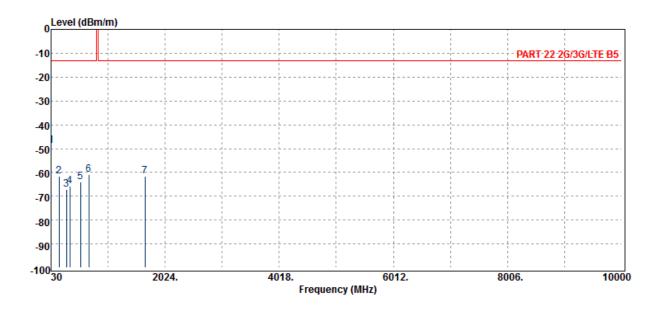
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Operation Band :HSDPA B5 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:836.6 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -49.46 | -34.30 | -14.58 | -0.58 | -13.00 | -36.46 |
| 172.60 | S | -61.77 | -60.23 | -0.20 | -1.34 | -13.00 | -48.77 |
| 299.65 | S | -67.56 | -69.35 | 3.61 | -1.82 | -13.00 | -54.56 |
| 359.81 | S | -66.29 | -68.06 | 3.83 | -2.06 | -13.00 | -53.29 |
| 546.05 | S | -64.45 | -66.63 | 3.99 | -1.81 | -13.00 | -51.45 |
| 692.50 | S | -61.14 | -62.08 | 3.70 | -2.76 | -13.00 | -48.14 |
| 1673.20 | Н | -61.56 | -64.23 | 7.06 | -4.39 | -13.00 | -48.56 |

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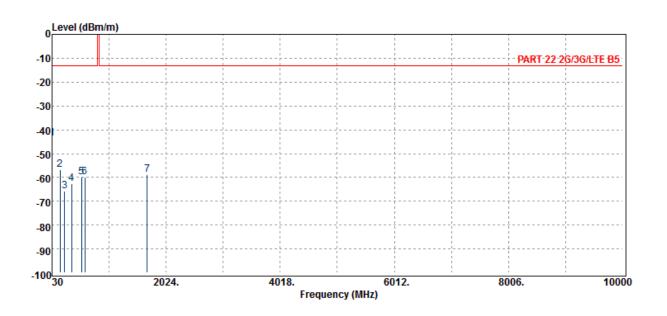
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Operation Band :HSDPA B5 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:846.6 MHz :Tin Engineer

:Tx CH HIGH **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| • | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 31.95 | S | -44.45 | -29.78 | -14.08 | -0.59 | -13.00 | -31.45 |
| 172.60 | S | -57.24 | -55.70 | -0.20 | -1.34 | -13.00 | -44.24 |
| 251.16 | S | -66.27 | -68.12 | 3.55 | -1.70 | -13.00 | -53.27 |
| 374.33 | S | -63.04 | -64.78 | 3.78 | -2.04 | -13.00 | -50.04 |
| 547.00 | S | -60.45 | -62.57 | 3.98 | -1.86 | -13.00 | -47.45 |
| 605.24 | S | -60.22 | -61.64 | 3.57 | -2.15 | -13.00 | -47.22 |
| 1693.20 | Н | -59.05 | -61.74 | 7.12 | -4.43 | -13.00 | -46.05 |

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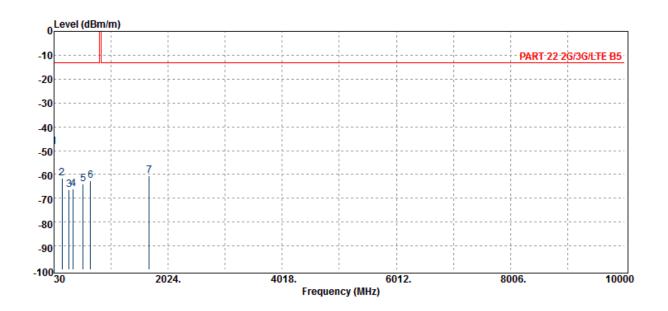
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Operation Band :HSUPA B5 Temp./Humi. :24 deg_C / 61 RH

Fundamental Frequen-:846.6 MHz :Tin Engineer

:Tx CH HIGH **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :E2 Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| • | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -49.11 | -33.95 | -14.58 | -0.58 | -13.00 | -36.11 |
| 172.60 | S | -61.86 | -60.32 | -0.20 | -1.34 | -13.00 | -48.86 |
| 294.83 | S | -67.51 | -69.23 | 3.52 | -1.80 | -13.00 | -54.51 |
| 364.63 | S | -66.87 | -68.61 | 3.81 | -2.07 | -13.00 | -53.87 |
| 539.22 | S | -64.31 | -66.32 | 4.00 | -1.99 | -13.00 | -51.31 |
| 667.30 | S | -63.04 | -64.71 | 3.78 | -2.11 | -13.00 | -50.04 |
| 1693.20 | Н | -60.97 | -63.66 | 7.12 | -4.43 | -13.00 | -47.97 |

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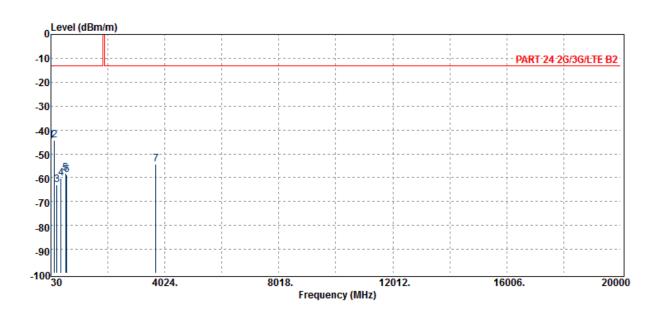
Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Band Temp./Humi. :LTE B2 :24.1 deg_C / 65 RH

Fundamental Frequen-:1852.5 MHz Engineer :Tin

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 31.94 | S | -44.70 | -30.03 | -14.08 | -0.59 | -13.00 | -31.70 |
| 146.40 | S | -44.17 | -40.91 | -1.98 | -1.29 | -13.00 | -31.17 |
| 241.46 | S | -62.96 | -64.77 | 3.49 | -1.68 | -13.00 | -49.96 |
| 382.11 | S | -60.37 | -62.12 | 3.76 | -2.02 | -13.00 | -47.37 |
| 541.19 | S | -58.06 | -60.14 | 3.99 | -1.91 | -13.00 | -45.06 |
| 579.99 | S | -58.75 | -60.07 | 3.71 | -2.39 | -13.00 | -45.75 |
| 3705.00 | Н | -54.36 | -60.03 | 12.57 | -6.90 | -13.00 | -41.36 |

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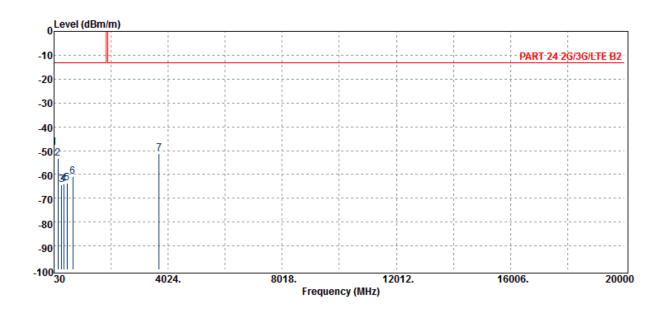
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Operation Band :LTE B2 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1852.5 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| • | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -48.62 | -33.46 | -14.58 | -0.58 | -13.00 | -35.62 |
| 170.65 | S | -53.36 | -51.51 | -0.51 | -1.33 | -13.00 | -40.36 |
| 299.66 | S | -64.20 | -65.98 | 3.61 | -1.82 | -13.00 | -51.20 |
| 362.71 | S | -63.92 | -65.67 | 3.82 | -2.07 | -13.00 | -50.92 |
| 487.84 | S | -63.54 | -65.58 | 3.93 | -1.89 | -13.00 | -50.54 |
| 687.66 | S | -61.04 | -61.62 | 3.71 | -3.13 | -13.00 | -48.04 |
| 3705.00 | Н | -51.09 | -56.75 | 12.57 | -6.90 | -13.00 | -38.09 |

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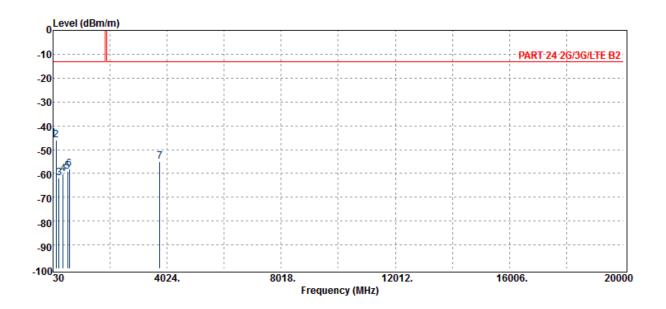
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Operation Band :LTE B2 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1880 MHz :Tin Engineer

Operation Mode :Tx CH MID

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 31.94 | S | -45.19 | -30.51 | -14.08 | -0.59 | -13.00 | -32.19 |
| 134.76 | S | -45.97 | -42.62 | -2.12 | -1.23 | -13.00 | -32.97 |
| 241.46 | S | -62.03 | -63.84 | 3.49 | -1.68 | -13.00 | -49.03 |
| 377.26 | S | -60.22 | -61.96 | 3.78 | -2.03 | -13.00 | -47.22 |
| 547.01 | S | -59.03 | -61.16 | 3.98 | -1.86 | -13.00 | -46.03 |
| 607.15 | S | -58.17 | -59.54 | 3.58 | -2.21 | -13.00 | -45.17 |
| 3760.00 | Н | -54.86 | -60.59 | 12.61 | -6.89 | -13.00 | -41.86 |

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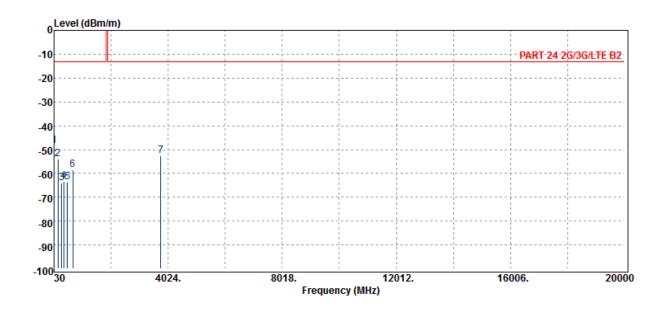
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Operation Band :LTE B2 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1880 MHz :Tin Engineer

Operation Mode :Tx CH MID

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -48.60 | -33.44 | -14.58 | -0.58 | -13.00 | -35.60 |
| 168.71 | S | -53.96 | -51.94 | -0.70 | -1.33 | -13.00 | -40.96 |
| 299.66 | S | -64.02 | -65.80 | 3.61 | -1.82 | -13.00 | -51.02 |
| 367.56 | S | -63.25 | -64.99 | 3.80 | -2.06 | -13.00 | -50.25 |
| 495.60 | S | -63.75 | -65.67 | 4.01 | -2.09 | -13.00 | -50.75 |
| 684.75 | S | -58.65 | -59.04 | 3.72 | -3.32 | -13.00 | -45.65 |
| 3760.00 | Н | -52.70 | -58.43 | 12.61 | -6.89 | -13.00 | -39.70 |

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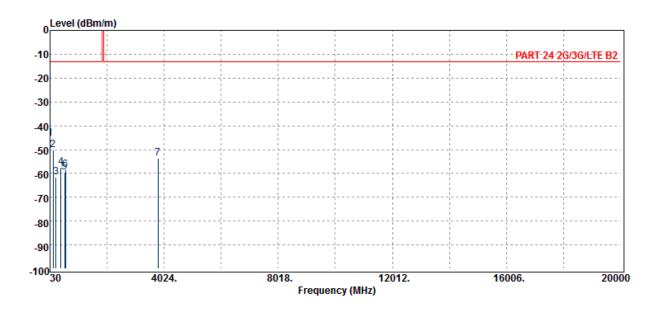
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Operation Band :LTE B2 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1907.5 MHz :Tin Engineer

:Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 31.94 | S | -45.44 | -30.77 | -14.08 | -0.59 | -13.00 | -32.44 |
| 133.79 | S | -50.29 | -46.98 | -2.09 | -1.23 | -13.00 | -37.29 |
| 241.46 | S | -61.57 | -63.38 | 3.49 | -1.68 | -13.00 | -48.57 |
| 418.00 | S | -57.58 | -59.11 | 3.65 | -2.11 | -13.00 | -44.58 |
| 546.04 | S | -59.56 | -61.74 | 3.99 | -1.81 | -13.00 | -46.56 |
| 578.05 | S | -58.36 | -59.64 | 3.73 | -2.45 | -13.00 | -45.36 |
| 3815.00 | Н | -53.78 | -59.43 | 12.66 | -7.00 | -13.00 | -40.78 |

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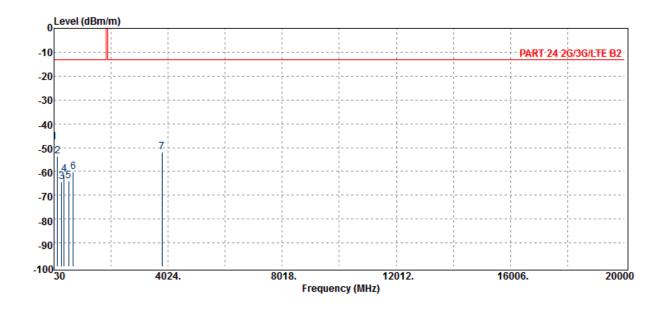
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Operation Band :LTE B2 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1907.5 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -47.77 | -32.61 | -14.58 | -0.58 | -13.00 | -34.77 |
| 148.34 | S | -53.61 | -50.44 | -1.89 | -1.29 | -13.00 | -40.61 |
| 299.66 | S | -64.27 | -66.06 | 3.61 | -1.82 | -13.00 | -51.27 |
| 379.20 | S | -61.28 | -63.03 | 3.77 | -2.03 | -13.00 | -48.28 |
| 541.19 | S | -63.96 | -66.04 | 3.99 | -1.91 | -13.00 | -50.96 |
| 699.30 | S | -60.22 | -61.66 | 3.68 | -2.24 | -13.00 | -47.22 |
| 3815.00 | Н | -51.87 | -57.53 | 12.66 | -7.00 | -13.00 | -38.87 |

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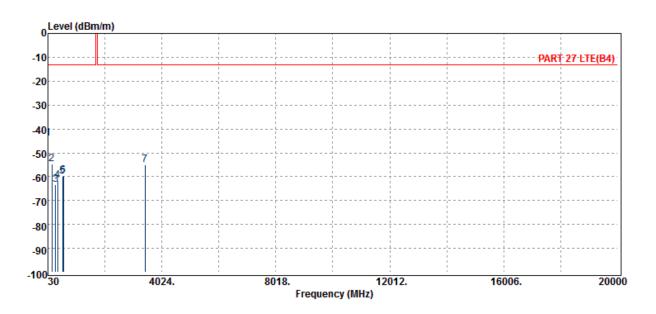
Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Band Temp./Humi. :LTE B4 :24.1 deg_C / 65 RH

Fundamental Frequen-:1717.5 MHz Engineer :Tin

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|---------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 32.91 | S | -43.94 | -29.50 | -13.84 | -0.60 | -13.00 | -30.94 |
| 172.59 | S | -54.66 | -53.12 | -0.20 | -1.34 | -13.00 | -41.66 |
| 299.66 | S | -63.49 | -65.28 | 3.61 | -1.82 | -13.00 | -50.49 |
| 366.59 | S | -61.65 | -63.39 | 3.81 | -2.07 | -13.00 | -48.65 |
| 544.10 | S | -59.75 | -61.95 | 3.99 | -1.79 | -13.00 | -46.75 |
| 573.20 | S | -59.55 | -60.73 | 3.77 | -2.59 | -13.00 | -46.55 |
| 3435.00 | Н | -55.17 | -60.88 | 12.25 | -6.55 | -13.00 | -42.17 |

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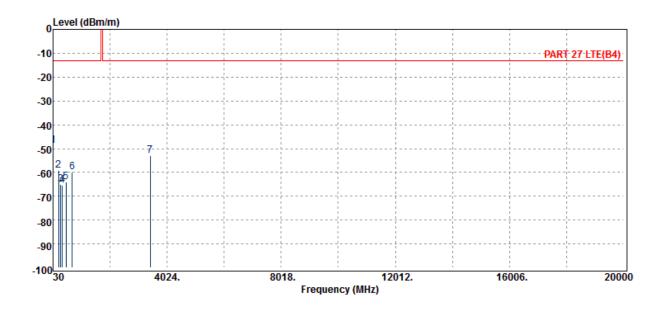
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Operation Band :LTE B4 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1717.5 MHz :Tin Engineer

:Tx CH LOW

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -48.94 | -33.78 | -14.58 | -0.58 | -13.00 | -35.94 |
| 219.15 | S | -59.12 | -60.90 | 3.35 | -1.57 | -13.00 | -46.12 |
| 299.66 | S | -64.89 | -66.67 | 3.61 | -1.82 | -13.00 | -51.89 |
| 356.89 | S | -65.34 | -67.13 | 3.83 | -2.05 | -13.00 | -52.34 |
| 488.81 | S | -63.93 | -65.95 | 3.94 | -1.91 | -13.00 | -50.93 |
| 697.36 | S | -59.76 | -61.06 | 3.68 | -2.38 | -13.00 | -46.76 |
| 3435.00 | Н | -52.90 | -58.60 | 12.25 | -6.55 | -13.00 | -39.90 |

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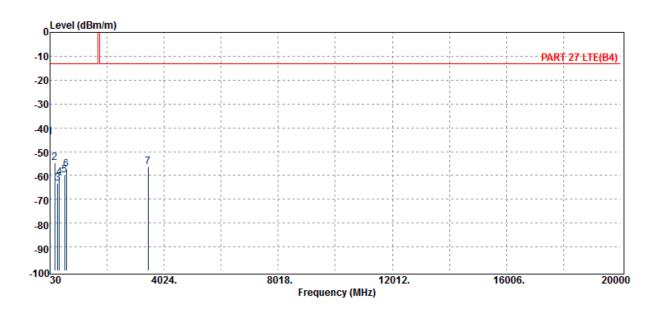
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Operation Band :LTE B4 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1732.5 MHz :Tin Engineer

:Tx CH MID

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 31.94 | S | -44.06 | -29.39 | -14.08 | -0.59 | -13.00 | -31.06 |
| 191.99 | S | -54.50 | -55.73 | 2.66 | -1.44 | -13.00 | -41.50 |
| 299.66 | S | -63.19 | -64.98 | 3.61 | -1.82 | -13.00 | -50.19 |
| 357.86 | S | -60.92 | -62.70 | 3.83 | -2.05 | -13.00 | -47.92 |
| 539.25 | S | -59.99 | -62.00 | 4.00 | -1.99 | -13.00 | -46.99 |
| 604.24 | S | -57.45 | -58.87 | 3.56 | -2.14 | -13.00 | -44.45 |
| 3465.00 | Н | -56.36 | -62.12 | 12.32 | -6.56 | -13.00 | -43.36 |

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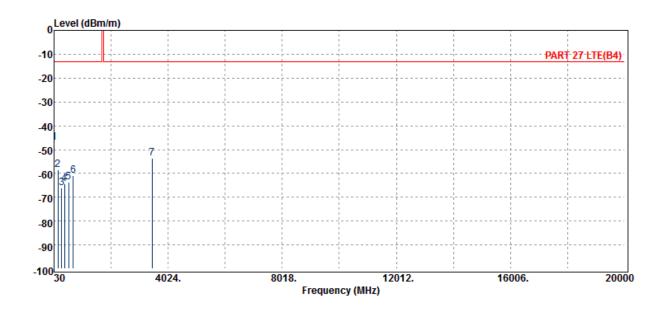
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Operation Band :LTE B4 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1732.5 MHz :Tin Engineer

:Tx CH MID

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -46.98 | -31.83 | -14.58 | -0.58 | -13.00 | -33.98 |
| 172.59 | S | -58.53 | -56.99 | -0.20 | -1.34 | -13.00 | -45.53 |
| 299.66 | S | -66.03 | -67.82 | 3.61 | -1.82 | -13.00 | -53.03 |
| 403.45 | S | -64.43 | -65.99 | 3.70 | -2.14 | -13.00 | -51.43 |
| 547.01 | S | -63.57 | -65.69 | 3.98 | -1.86 | -13.00 | -50.57 |
| 697.36 | S | -60.81 | -62.11 | 3.68 | -2.38 | -13.00 | -47.81 |
| 3465.00 | Н | -53.61 | -59.38 | 12.32 | -6.56 | -13.00 | -40.61 |

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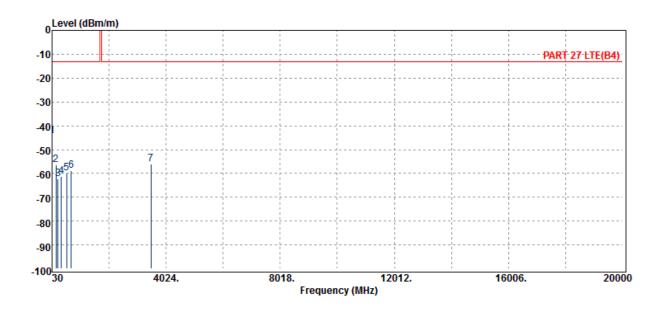
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Operation Band :LTE B4 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1747.5 MHz :Tin Engineer

:Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 31.94 | S | -44.15 | -29.48 | -14.08 | -0.59 | -13.00 | -31.15 |
| 168.71 | S | -56.42 | -54.40 | -0.70 | -1.33 | -13.00 | -43.42 |
| 241.46 | S | -62.35 | -64.17 | 3.49 | -1.68 | -13.00 | -49.35 |
| 361.74 | S | -61.15 | -62.91 | 3.82 | -2.06 | -13.00 | -48.15 |
| 541.19 | S | -59.96 | -62.04 | 3.99 | -1.91 | -13.00 | -46.96 |
| 697.36 | S | -58.69 | -59.99 | 3.68 | -2.38 | -13.00 | -45.69 |
| 3495.00 | Н | -55.99 | -61.77 | 12.39 | -6.61 | -13.00 | -42.99 |

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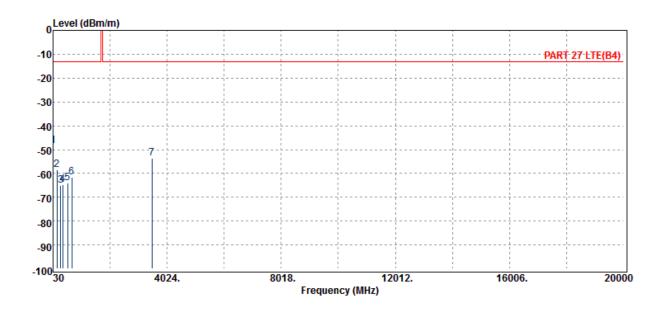
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Operation Band :LTE B4 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:1747.5 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -48.38 | -33.22 | -14.58 | -0.58 | -13.00 | -35.38 |
| 173.56 | S | -58.38 | -56.99 | -0.04 | -1.35 | -13.00 | -45.38 |
| 299.66 | S | -65.17 | -66.95 | 3.61 | -1.82 | -13.00 | -52.17 |
| 367.56 | S | -64.80 | -66.54 | 3.80 | -2.06 | -13.00 | -51.80 |
| 542.16 | S | -64.01 | -66.13 | 3.99 | -1.87 | -13.00 | -51.01 |
| 692.51 | S | -61.45 | -62.39 | 3.70 | -2.76 | -13.00 | -48.45 |
| 3495.00 | Н | -53.57 | -59.35 | 12.39 | -6.61 | -13.00 | -40.57 |

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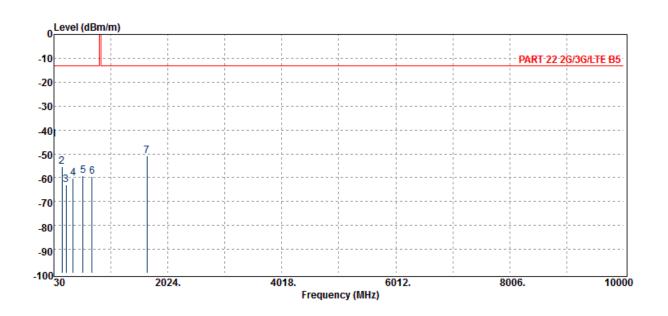
Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Band Temp./Humi. :LTE B5 :24.1 deg_C / 65 RH

Fundamental Frequen-:829 MHz Engineer :Tin

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| • | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 32.91 | S | -44.10 | -29.66 | -13.84 | -0.60 | -13.00 | -31.10 |
| 167.74 | S | -55.45 | -53.37 | -0.76 | -1.32 | -13.00 | -42.45 |
| 241.46 | S | -63.12 | -64.93 | 3.49 | -1.68 | -13.00 | -50.12 |
| 366.59 | S | -60.08 | -61.82 | 3.81 | -2.07 | -13.00 | -47.08 |
| 539.25 | S | -59.23 | -61.24 | 4.00 | -1.99 | -13.00 | -46.23 |
| 694.45 | S | -59.48 | -60.56 | 3.69 | -2.61 | -13.00 | -46.48 |
| 1658.00 | Н | -51.04 | -55.83 | 9.16 | -4.37 | -13.00 | -38.04 |

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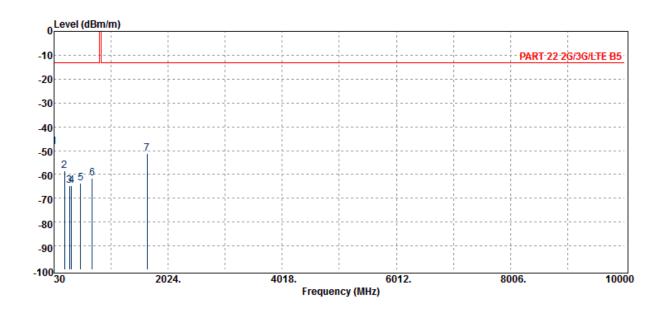
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Operation Band :LTE B5 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:829 MHz :Tin Engineer

:Tx CH LOW

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 30.00 | S | -48.32 | -33.16 | -14.58 | -0.58 | -13.00 | -35.32 |
| 217.21 | S | -58.45 | -60.32 | 3.43 | -1.56 | -13.00 | -45.45 |
| 299.66 | S | -64.62 | -66.40 | 3.61 | -1.82 | -13.00 | -51.62 |
| 335.55 | S | -64.64 | -66.48 | 3.79 | -1.95 | -13.00 | -51.64 |
| 492.69 | S | -63.78 | -65.75 | 3.98 | -2.01 | -13.00 | -50.78 |
| 699.30 | S | -61.53 | -62.97 | 3.68 | -2.24 | -13.00 | -48.53 |
| 1658.00 | Н | -51.37 | -56.16 | 9.16 | -4.37 | -13.00 | -38.37 |

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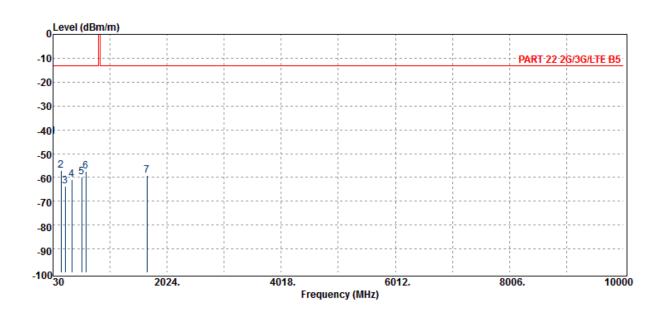
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Operation Band :LTE B5 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:836.5 MHz :Tin Engineer

Operation Mode :Tx CH MID

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 31.94 | S | -42.80 | -28.12 | -14.08 | -0.59 | -13.00 | -29.80 |
| 173.56 | S | -57.21 | -55.82 | -0.04 | -1.35 | -13.00 | -44.21 |
| 241.46 | S | -63.82 | -65.63 | 3.49 | -1.68 | -13.00 | -50.82 |
| 354.95 | S | -60.77 | -62.57 | 3.84 | -2.04 | -13.00 | -47.77 |
| 534.40 | S | -59.80 | -61.61 | 4.00 | -2.19 | -13.00 | -46.80 |
| 605.21 | S | -57.57 | -59.00 | 3.57 | -2.15 | -13.00 | -44.57 |
| 1673.00 | Н | -59.24 | -64.06 | 9.21 | -4.39 | -13.00 | -46.24 |

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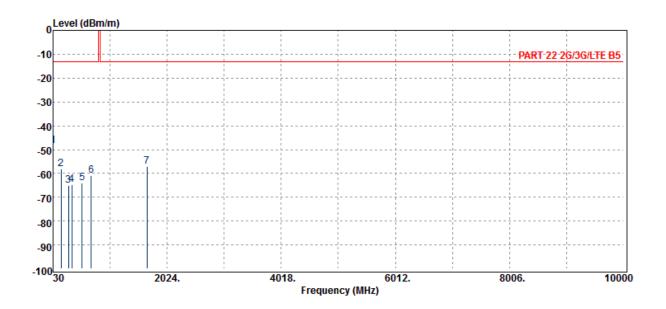
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Operation Band :LTE B5 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:836.5 MHz :Tin Engineer

:Tx CH MID

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -48.57 | -33.41 | -14.58 | -0.58 | -13.00 | -35.57 |
| 170.65 | S | -57.98 | -56.13 | -0.51 | -1.33 | -13.00 | -44.98 |
| 299.66 | S | -64.96 | -66.74 | 3.61 | -1.82 | -13.00 | -51.96 |
| 359.80 | S | -64.76 | -66.53 | 3.83 | -2.06 | -13.00 | -51.76 |
| 542.16 | S | -63.91 | -66.03 | 3.99 | -1.87 | -13.00 | -50.91 |
| 697.36 | S | -60.74 | -62.04 | 3.68 | -2.38 | -13.00 | -47.74 |
| 1673.00 | Н | -57.12 | -61.94 | 9.21 | -4.39 | -13.00 | -44.12 |

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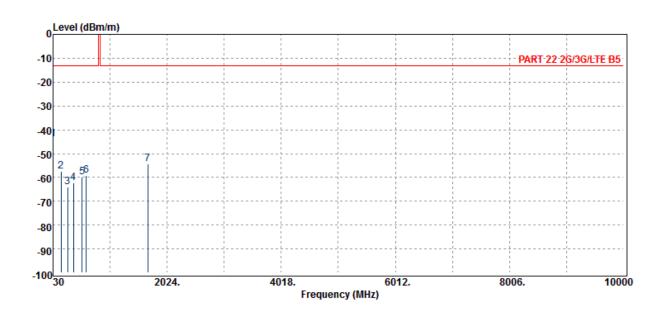
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Operation Band :LTE B5 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:844 MHz :Tin Engineer

:Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| • | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 31.94 | S | -43.83 | -29.16 | -14.08 | -0.59 | -13.00 | -30.83 |
| 170.65 | S | -57.60 | -55.75 | -0.51 | -1.33 | -13.00 | -44.60 |
| 287.05 | S | -64.05 | -65.70 | 3.42 | -1.77 | -13.00 | -51.05 |
| 388.90 | S | -62.34 | -64.05 | 3.74 | -2.04 | -13.00 | -49.34 |
| 541.19 | S | -59.87 | -61.95 | 3.99 | -1.91 | -13.00 | -46.87 |
| 612.00 | S | -59.27 | -60.51 | 3.61 | -2.38 | -13.00 | -46.27 |
| 1688.00 | Н | -54.39 | -57.07 | 7.11 | -4.42 | -13.00 | -41.39 |

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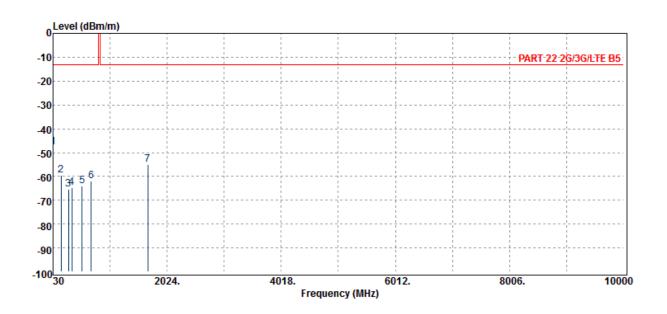
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Operation Band :LTE B5 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:844 MHz :Tin Engineer

:Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -47.67 | -32.51 | -14.58 | -0.58 | -13.00 | -34.67 |
| 172.59 | S | -59.39 | -57.85 | -0.20 | -1.34 | -13.00 | -46.39 |
| 298.69 | S | -65.26 | -67.03 | 3.59 | -1.82 | -13.00 | -52.26 |
| 359.80 | S | -64.82 | -66.59 | 3.83 | -2.06 | -13.00 | -51.82 |
| 541.19 | S | -64.14 | -66.23 | 3.99 | -1.91 | -13.00 | -51.14 |
| 700.27 | S | -61.86 | -63.38 | 3.67 | -2.16 | -13.00 | -48.86 |
| 1688.00 | Н | -55.16 | -57.85 | 7.11 | -4.42 | -13.00 | -42.16 |

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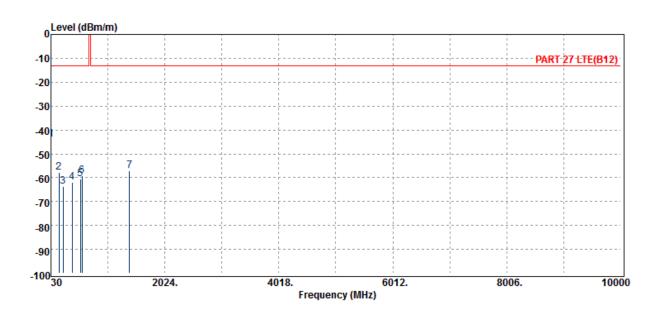
Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Band Temp./Humi. :LTE B12 :24.1 deg_C / 65 RH

Fundamental Frequen-:701.5 MHz Engineer :Tin

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 31.94 | S | -43.82 | -29.15 | -14.08 | -0.59 | -13.00 | -30.82 |
| 168.71 | S | -57.86 | -55.84 | -0.70 | -1.33 | -13.00 | -44.86 |
| 243.40 | S | -63.73 | -65.54 | 3.50 | -1.68 | -13.00 | -50.73 |
| 400.54 | S | -61.82 | -63.41 | 3.71 | -2.12 | -13.00 | -48.82 |
| 546.04 | S | -60.50 | -62.68 | 3.99 | -1.81 | -13.00 | -47.50 |
| 571.26 | S | -59.09 | -60.23 | 3.79 | -2.65 | -13.00 | -46.09 |
| 1403.00 | Н | -57.04 | -61.26 | 8.20 | -3.99 | -13.00 | -44.04 |

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Report No.: ER/2018/30030

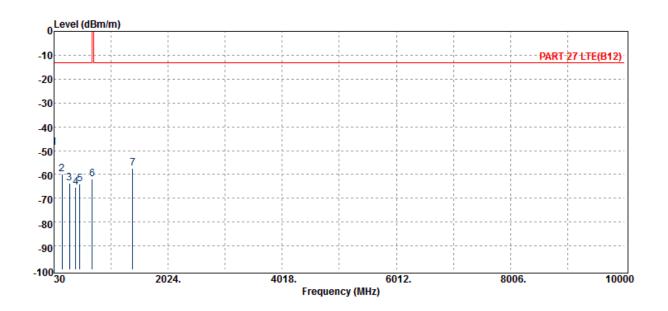
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Operation Band :LTE B12 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:701.5 MHz :Tin Engineer

:Tx CH LOW

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| • | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -48.82 | -33.66 | -14.58 | -0.58 | -13.00 | -35.82 |
| 173.56 | S | -59.95 | -58.56 | -0.04 | -1.35 | -13.00 | -46.95 |
| 299.66 | S | -63.54 | -65.33 | 3.61 | -1.82 | -13.00 | -50.54 |
| 405.39 | S | -65.55 | -67.09 | 3.69 | -2.15 | -13.00 | -52.55 |
| 481.05 | S | -63.91 | -65.81 | 3.86 | -1.96 | -13.00 | -50.91 |
| 696.39 | S | -61.82 | -63.05 | 3.69 | -2.46 | -13.00 | -48.82 |
| 1403.00 | Н | -57.54 | -61.76 | 8.20 | -3.99 | -13.00 | -44.54 |

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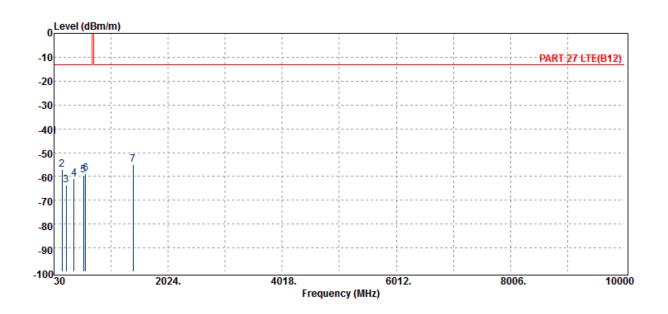
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Operation Band :LTE B12 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:707.5 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 31.94 | S | -43.28 | -28.61 | -14.08 | -0.59 | -13.00 | -30.28 |
| 172.59 | S | -57.11 | -55.57 | -0.20 | -1.34 | -13.00 | -44.11 |
| 241.46 | S | -63.55 | -65.36 | 3.49 | -1.68 | -13.00 | -50.55 |
| 376.29 | S | -60.92 | -62.66 | 3.78 | -2.03 | -13.00 | -47.92 |
| 546.04 | S | -59.45 | -61.62 | 3.99 | -1.81 | -13.00 | -46.45 |
| 579.99 | S | -58.82 | -60.14 | 3.71 | -2.39 | -13.00 | -45.82 |
| 1415.00 | Н | -54.97 | -59.22 | 8.25 | -4.01 | -13.00 | -41.97 |

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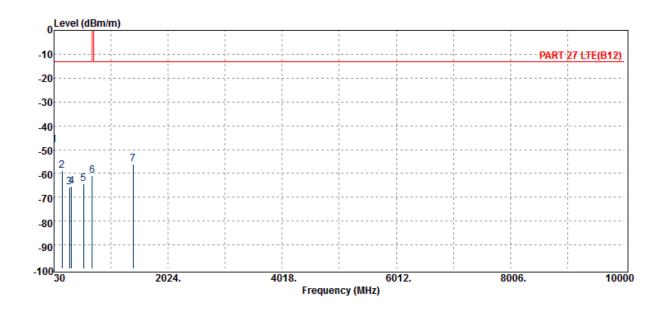
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Operation Band :LTE B12 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:707.5 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -48.10 | -32.94 | -14.58 | -0.58 | -13.00 | -35.10 |
| 173.56 | S | -58.90 | -57.51 | -0.04 | -1.35 | -13.00 | -45.90 |
| 298.69 | S | -65.64 | -67.41 | 3.59 | -1.82 | -13.00 | -52.64 |
| 335.55 | S | -65.45 | -67.29 | 3.79 | -1.95 | -13.00 | -52.45 |
| 547.01 | S | -64.52 | -66.64 | 3.98 | -1.86 | -13.00 | -51.52 |
| 700.27 | S | -60.85 | -62.37 | 3.67 | -2.16 | 34.77 | -95.62 |
| 1415.00 | Н | -56.08 | -60.33 | 8.25 | -4.01 | -13.00 | -43.08 |

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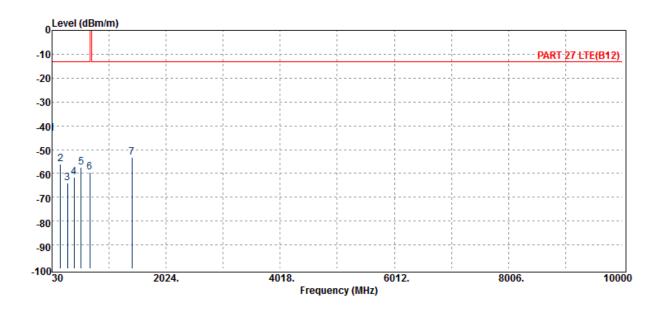
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Operation Band :LTE B12 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:713.5 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| • | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 31.94 | S | -43.42 | -28.75 | -14.08 | -0.59 | -13.00 | -30.42 |
| 175.50 | S | -56.12 | -55.04 | 0.27 | -1.36 | -13.00 | -43.12 |
| 299.66 | S | -64.12 | -65.90 | 3.61 | -1.82 | -13.00 | -51.12 |
| 413.15 | S | -61.48 | -63.02 | 3.67 | -2.13 | -13.00 | -48.48 |
| 541.19 | S | -57.58 | -59.66 | 3.99 | -1.91 | -13.00 | -44.58 |
| 686.69 | S | -59.49 | -59.99 | 3.72 | -3.21 | -13.00 | -46.49 |
| 1427.00 | Н | -53.24 | -57.51 | 8.30 | -4.03 | -13.00 | -40.24 |

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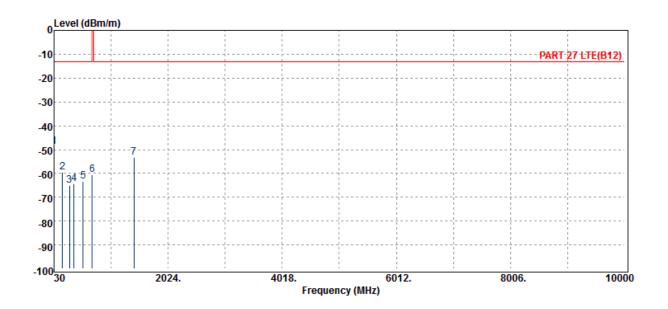
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Operation Band :LTE B12 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:713.5 MHz :Tin Engineer

:Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -48.85 | -33.69 | -14.58 | -0.58 | -13.00 | -35.85 |
| 175.50 | S | -59.50 | -58.42 | 0.27 | -1.36 | -13.00 | -46.50 |
| 298.69 | S | -65.19 | -66.96 | 3.59 | -1.82 | -13.00 | -52.19 |
| 376.29 | S | -64.45 | -66.20 | 3.78 | -2.03 | -13.00 | -51.45 |
| 536.34 | S | -63.23 | -65.12 | 4.00 | -2.11 | -13.00 | -50.23 |
| 697.36 | S | -60.54 | -61.84 | 3.68 | -2.38 | -13.00 | -47.54 |
| 1427.00 | Н | -53.36 | -57.64 | 8.30 | -4.03 | -13.00 | -40.36 |

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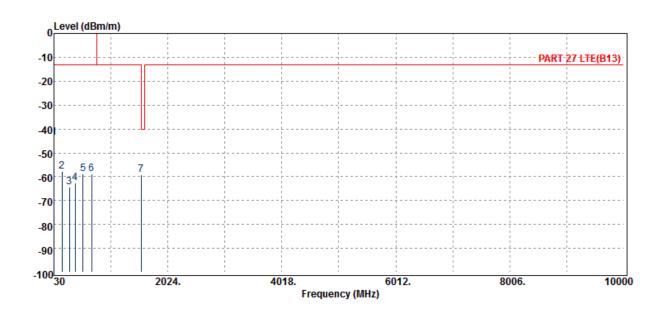
Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Operation Band Temp./Humi. :LTE B13 :24.1 deg_C / 65 RH

Fundamental Frequen-:779.5 MHz Engineer :Tin

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 31.94 | S | -43.46 | -28.79 | -14.08 | -0.59 | -13.00 | -30.46 |
| 168.71 | S | -57.90 | -55.88 | -0.70 | -1.33 | -13.00 | -44.90 |
| 298.69 | S | -64.35 | -66.13 | 3.59 | -1.82 | -13.00 | -51.35 |
| 398.60 | S | -62.63 | -64.24 | 3.72 | -2.10 | -13.00 | -49.63 |
| 539.25 | S | -58.88 | -60.89 | 4.00 | -1.99 | -13.00 | -45.88 |
| 689.60 | S | -58.98 | -59.70 | 3.71 | -2.98 | -13.00 | -45.98 |
| 1559.00 | Н | -59.31 | -61.72 | 6.66 | -4.25 | -40.00 | -19.31 |

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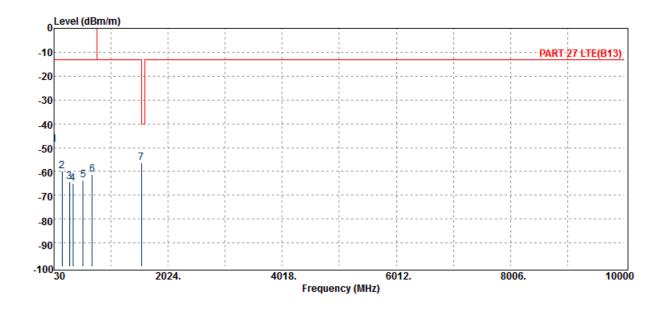
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:779.5 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -48.72 | -33.56 | -14.58 | -0.58 | -13.00 | -35.72 |
| 172.59 | S | -59.91 | -58.38 | -0.20 | -1.34 | -13.00 | -46.91 |
| 299.66 | S | -64.48 | -66.27 | 3.61 | -1.82 | -13.00 | -51.48 |
| 357.86 | S | -65.11 | -66.89 | 3.83 | -2.05 | -13.00 | -52.11 |
| 541.19 | S | -63.71 | -65.80 | 3.99 | -1.91 | -13.00 | -50.71 |
| 699.30 | S | -61.08 | -62.52 | 3.68 | -2.24 | -13.00 | -48.08 |
| 1559.00 | Н | -56.43 | -58.84 | 6.66 | -4.25 | -40.00 | -16.43 |

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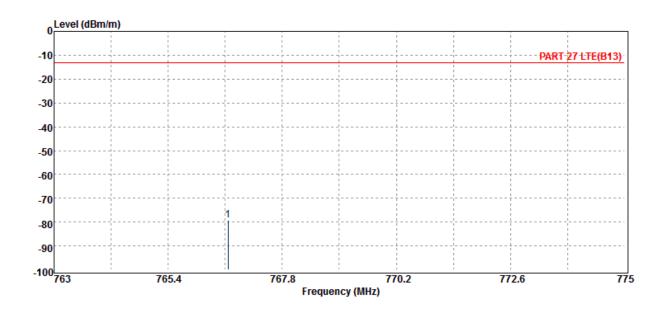
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:779.5 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin | |
|--------|---------|----------|--------------------|-----------------|---------------|--------|--------|--|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB | |
| 766.66 | S | -79.27 | -81.10 | 3.46 | -1.64 | -13.00 | -66.27 | |

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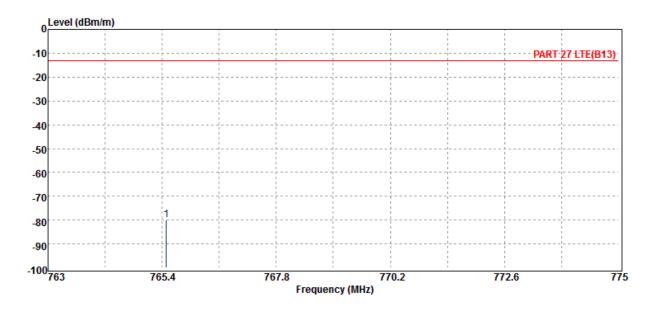
Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:779.5 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane

Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|--------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| 765.48 | S | -79.85 | -81.81 | 3.46 | -1.50 | -13.00 | -66.85 |

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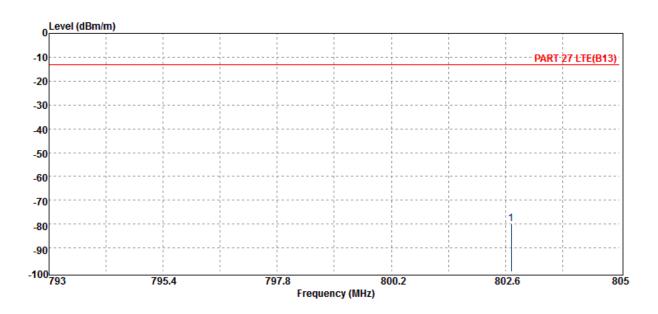
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:779.5 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|--------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| 802.72 | S | -79.81 | -81.06 | 3.44 | -2.18 | -13.00 | -66.81 |

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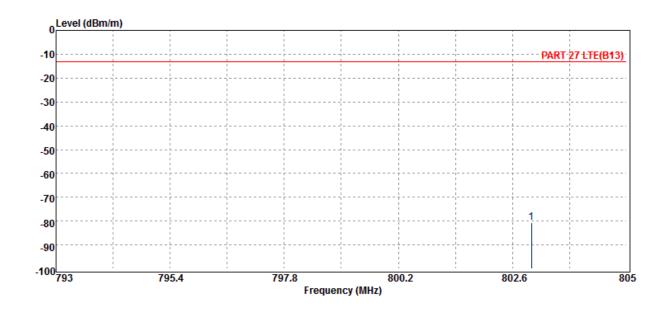
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:779.5 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|--------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | ['] dBm | dBd/dBi | dB | dBm | dB |
| 803.00 | S | -80.51 | -81.79 | 3.44 | -2.16 | -13.00 | -67.51 |

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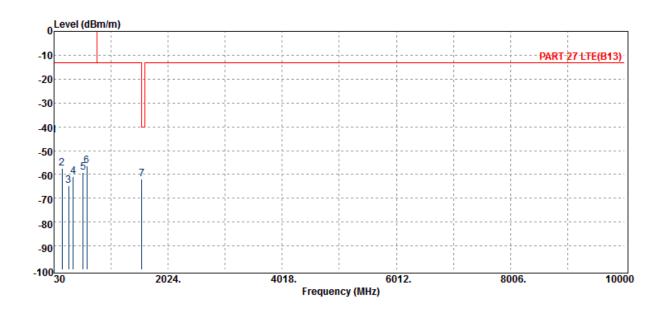
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:782.0 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 31.94 | S | -43.54 | -28.87 | -14.08 | -0.59 | -13.00 | -30.54 |
| 167.74 | S | -57.33 | -55.25 | -0.76 | -1.32 | -13.00 | -44.33 |
| 287.05 | S | -64.72 | -66.37 | 3.42 | -1.77 | -13.00 | -51.72 |
| 367.56 | S | -60.95 | -62.69 | 3.80 | -2.06 | -13.00 | -47.95 |
| 536.34 | S | -59.27 | -61.17 | 4.00 | -2.11 | -13.00 | -46.27 |
| 605.21 | S | -56.46 | -57.88 | 3.57 | -2.15 | -13.00 | -43.46 |
| 1564.00 | Н | -61.83 | -64.25 | 6.68 | -4.26 | -40.00 | -21.83 |

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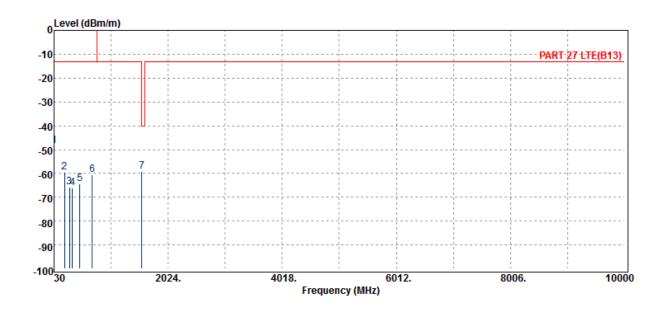
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:782.0 MHz :Tin Engineer

Operation Mode :Tx CH MID

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -48.43 | -33.27 | -14.58 | -0.58 | -13.00 | -35.43 |
| 214.30 | S | -59.57 | -61.57 | 3.55 | -1.55 | -13.00 | -46.57 |
| 299.66 | S | -65.61 | -67.39 | 3.61 | -1.82 | -13.00 | -52.61 |
| 352.04 | S | -66.08 | -67.90 | 3.85 | -2.03 | -13.00 | -53.08 |
| 483.96 | S | -64.31 | -66.34 | 3.89 | -1.85 | -13.00 | -51.31 |
| 697.36 | S | -60.69 | -61.99 | 3.68 | -2.38 | -13.00 | -47.69 |
| 1564.00 | Н | -59.04 | -61.47 | 6.68 | -4.26 | -40.00 | -19.04 |

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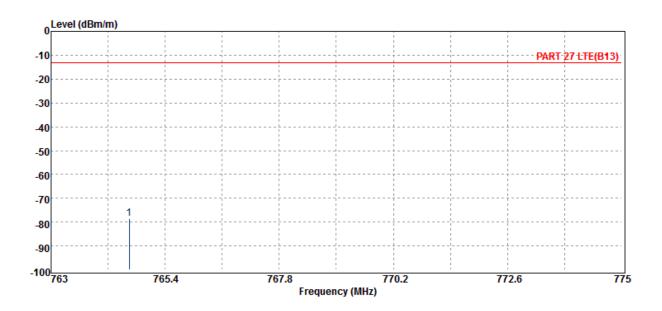
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:782.0 MHz :Tin Engineer

Operation Mode :Tx CH MID

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|--------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | _ | | | | | | |
| 764.64 | S | -78.69 | -80.68 | 3.46 | -1.47 | -13.00 | -65.69 |

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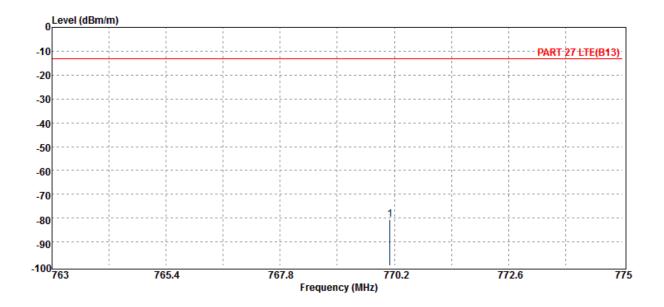
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:782.0 MHz :Tin Engineer

Operation Mode :Tx CH MID

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|--------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 770.10 | S | -80.68 | -82.11 | 3.46 | -2.03 | -13.00 | -67.68 |

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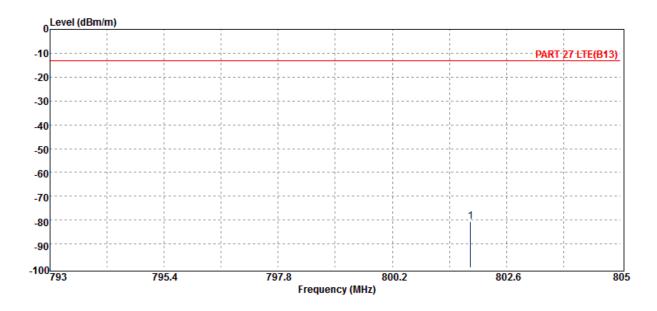
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:782.0 MHz :Tin Engineer

Operation Mode :Tx CH MID

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|--------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | ['] dBm | dBd/dBi | dB | dBm | dB |
| 801.84 | S | -80.47 | -81.65 | 3.44 | -2.26 | -13.00 | -67.47 |

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Operation Mode

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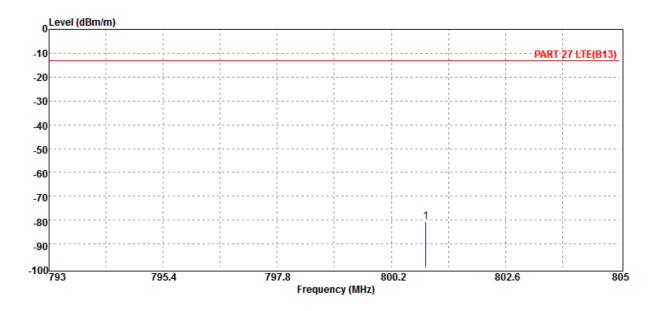
Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:782.0 MHz :Tin Engineer

:Tx CH MID

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane

Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|--------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| 800.92 | S | -80.54 | -81.63 | 3.44 | -2.34 | -13.00 | -67.54 |

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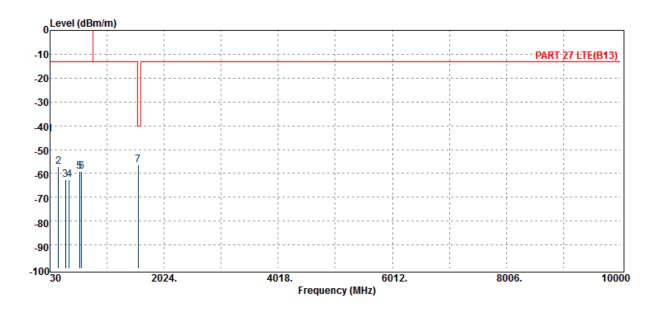
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:784.5 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 31.94 | S | -43.77 | -29.09 | -14.08 | -0.59 | -13.00 | -30.77 |
| 175.50 | S | -57.10 | -56.01 | 0.27 | -1.36 | -13.00 | -44.10 |
| 299.66 | S | -62.54 | -64.32 | 3.61 | -1.82 | -13.00 | -49.54 |
| 362.71 | S | -62.54 | -64.29 | 3.82 | -2.07 | -13.00 | -49.54 |
| 547.01 | S | -59.01 | -61.13 | 3.98 | -1.86 | -13.00 | -46.01 |
| 580.96 | S | -59.16 | -60.50 | 3.70 | -2.36 | -13.00 | -46.16 |
| 1569.00 | Н | -56.42 | -58.85 | 6.70 | -4.27 | -40.00 | -16.42 |

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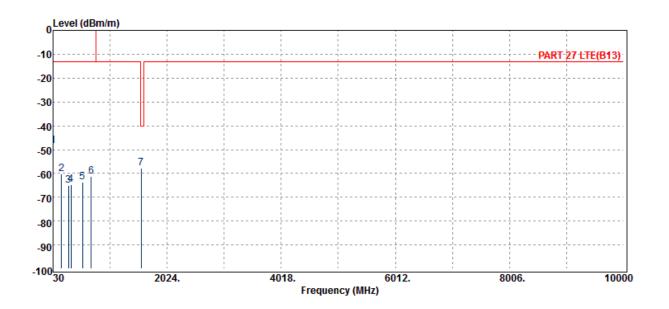
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:784.5 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -48.34 | -33.18 | -14.58 | -0.58 | -13.00 | -35.34 |
| 177.44 | S | -60.11 | -59.32 | 0.58 | -1.37 | -13.00 | -47.11 |
| 299.66 | S | -65.12 | -66.90 | 3.61 | -1.82 | -13.00 | -52.12 |
| 347.19 | S | -64.74 | -66.56 | 3.84 | -2.02 | -13.00 | -51.74 |
| 548.95 | S | -63.80 | -65.81 | 3.98 | -1.97 | -13.00 | -50.80 |
| 696.39 | S | -61.13 | -62.36 | 3.69 | -2.46 | -13.00 | -48.13 |
| 1569.00 | Н | -57.64 | -60.07 | 6.70 | -4.27 | -40.00 | -17.64 |

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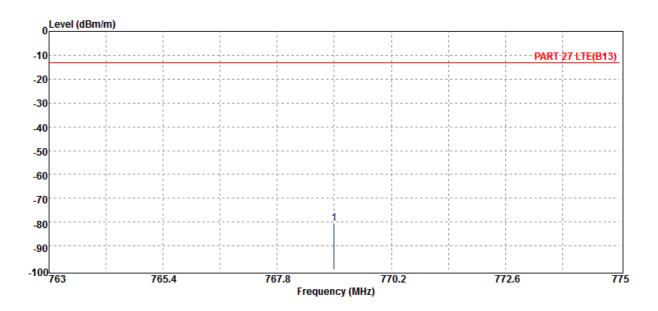
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:784.5 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|--------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| 769.00 | S | -80.61 | -82.16 | 3.46 | -1.90 | -13.00 | -67.61 |

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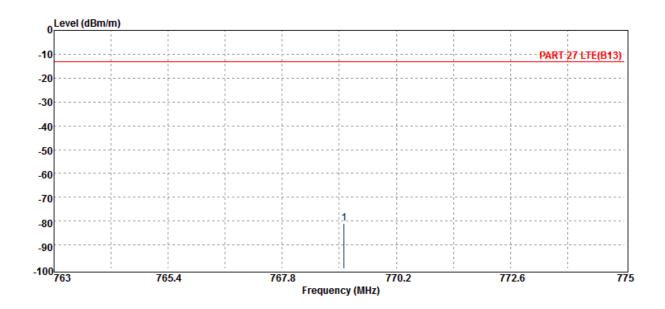
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:784.5 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|--------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| 769.10 | S | -81.05 | -82.59 | 3.46 | -1.92 | -13.00 | -68.05 |

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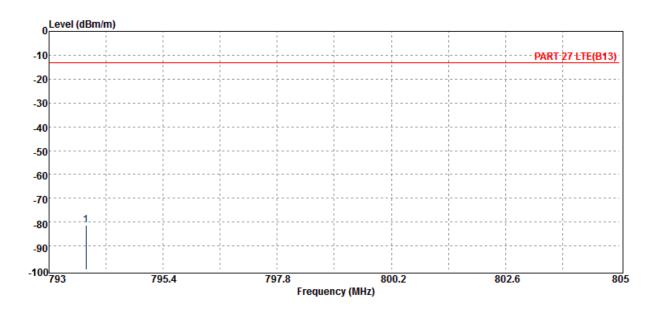
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:784.5 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|--------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| 793.78 | S | -81.20 | -81.68 | 3.44 | -2.96 | -13.00 | -68.20 |

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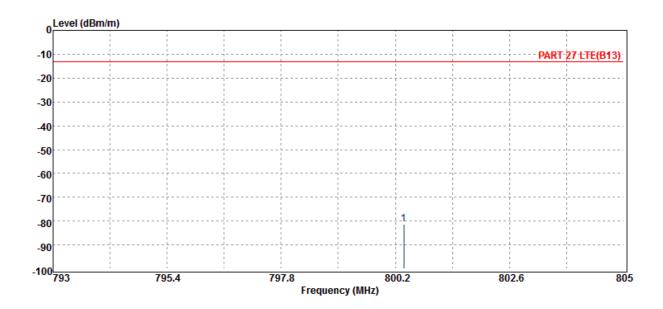
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Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:784.5 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|--------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| 800.38 | S | -81.45 | -82.50 | 3.44 | -2.39 | -13.00 | -68.45 |

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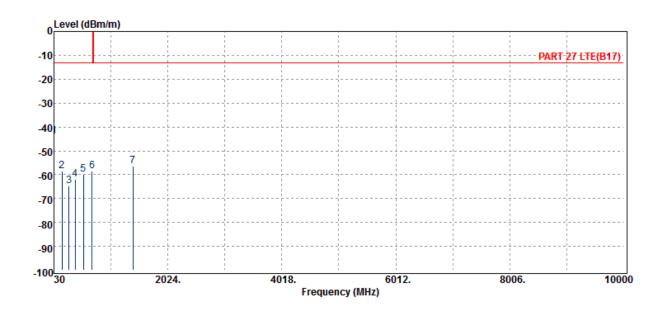
Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Operation Band :LTE B17 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:706.5 MHz Engineer :Tin

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| • | | | Output Level | Gain | Loss | | |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 31.94 | S | -44.00 | -29.32 | -14.08 | -0.59 | -13.00 | -31.00 |
| 168.71 | S | -58.31 | -56.29 | -0.70 | -1.33 | -13.00 | -45.31 |
| 296.75 | S | -64.71 | -66.45 | 3.55 | -1.81 | -13.00 | -51.71 |
| 401.51 | S | -61.88 | -63.46 | 3.71 | -2.13 | -13.00 | -48.88 |
| 548.95 | S | -59.95 | -61.96 | 3.98 | -1.97 | -13.00 | -46.95 |
| 699.30 | S | -58.65 | -60.09 | 3.68 | -2.24 | -13.00 | -45.65 |
| 1413.00 | Н | -56.36 | -60.61 | 8.25 | -4.00 | -13.00 | -43.36 |

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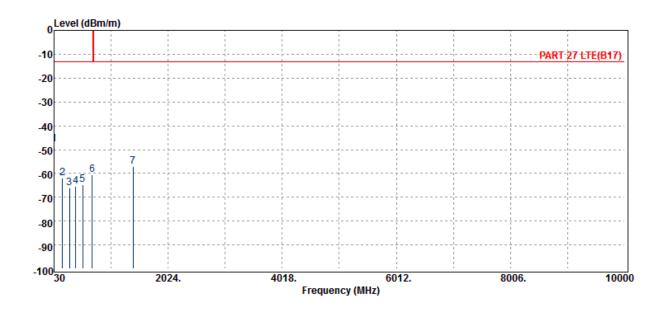
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Operation Band :LTE B17 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:706.5 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -47.87 | -32.71 | -14.58 | -0.58 | -13.00 | -34.87 |
| 175.50 | S | -61.77 | -60.68 | 0.27 | -1.36 | -13.00 | -48.77 |
| 299.66 | S | -66.08 | -67.86 | 3.61 | -1.82 | -13.00 | -53.08 |
| 406.36 | S | -65.57 | -67.11 | 3.69 | -2.15 | -13.00 | -52.57 |
| 534.40 | S | -64.58 | -66.39 | 4.00 | -2.19 | -13.00 | -51.58 |
| 696.39 | S | -60.54 | -61.77 | 3.69 | -2.46 | -13.00 | -47.54 |
| 1413.00 | Н | -57.01 | -61.26 | 8.25 | -4.00 | -13.00 | -44.01 |

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Operation Mode

Report No.: ER/2018/30030

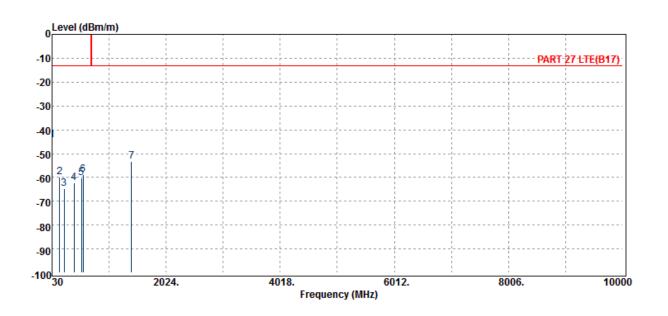
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Operation Band :LTE B17 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:710 MHz :Tin Engineer

:Tx CH MID

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| • | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -44.20 | -29.04 | -14.58 | -0.58 | -13.00 | -31.20 |
| 165.80 | S | -59.79 | -57.60 | -0.88 | -1.31 | -13.00 | -46.79 |
| 241.46 | S | -64.67 | -66.49 | 3.49 | -1.68 | -13.00 | -51.67 |
| 416.06 | S | -62.22 | -63.75 | 3.66 | -2.12 | -13.00 | -49.22 |
| 544.10 | S | -60.06 | -62.26 | 3.99 | -1.79 | -13.00 | -47.06 |
| 578.05 | S | -58.66 | -59.94 | 3.73 | -2.45 | -13.00 | -45.66 |
| 1420.00 | Н | -53.45 | -57.71 | 8.28 | -4.01 | -13.00 | -40.45 |

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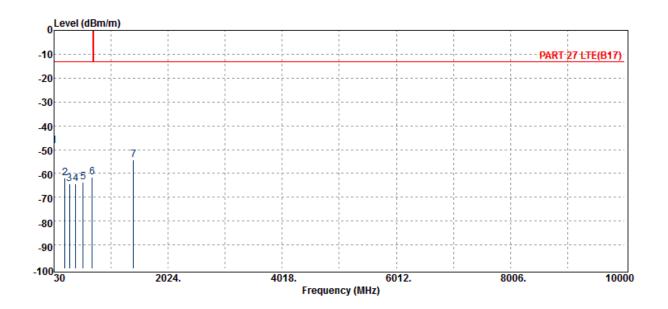
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Operation Band :LTE B17 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:710 MHz :Tin Engineer

:Tx CH MID **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -48.61 | -33.45 | -14.58 | -0.58 | -13.00 | -35.61 |
| 219.15 | S | -61.82 | -63.60 | 3.35 | -1.57 | -13.00 | -48.82 |
| 299.66 | S | -64.53 | -66.31 | 3.61 | -1.82 | -13.00 | -51.53 |
| 408.30 | S | -64.36 | -65.90 | 3.68 | -2.14 | -13.00 | -51.36 |
| 542.16 | S | -63.84 | -65.96 | 3.99 | -1.87 | -13.00 | -50.84 |
| 694.45 | S | -61.58 | -62.66 | 3.69 | -2.61 | -13.00 | -48.58 |
| 1420.00 | Н | -54.17 | -58.43 | 8.28 | -4.01 | -13.00 | -41.17 |

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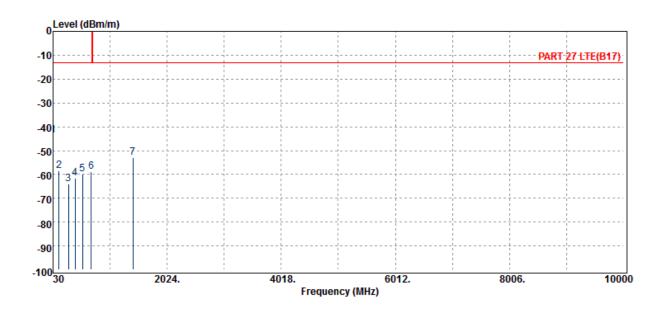
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Operation Band :LTE B17 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:713.5 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| • | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 31.94 | S | -43.47 | -28.80 | -14.08 | -0.59 | -13.00 | -30.47 |
| 134.76 | S | -58.34 | -54.98 | -2.12 | -1.23 | -13.00 | -45.34 |
| 298.69 | S | -63.99 | -65.77 | 3.59 | -1.82 | -13.00 | -50.99 |
| 413.15 | S | -61.56 | -63.10 | 3.67 | -2.13 | -13.00 | -48.56 |
| 546.04 | S | -59.87 | -62.05 | 3.99 | -1.81 | -13.00 | -46.87 |
| 697.36 | S | -58.87 | -60.16 | 3.68 | -2.38 | -13.00 | -45.87 |
| 1427.00 | Н | -52.92 | -57.20 | 8.30 | -4.03 | -13.00 | -39.92 |

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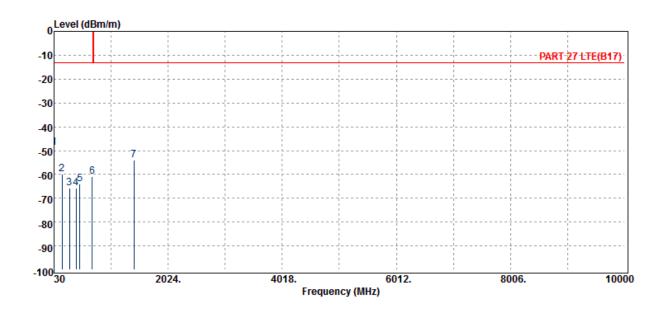
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Operation Band :LTE B17 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:713.5 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 31.94 | S | -48.90 | -34.22 | -14.08 | -0.59 | -13.00 | -35.90 |
| 170.65 | S | -59.86 | -58.01 | -0.51 | -1.33 | -13.00 | -46.86 |
| 298.69 | S | -65.87 | -67.64 | 3.59 | -1.82 | -13.00 | -52.87 |
| 415.09 | S | -65.70 | -67.23 | 3.66 | -2.12 | -13.00 | -52.70 |
| 478.14 | S | -64.02 | -65.78 | 3.83 | -2.08 | -13.00 | -51.02 |
| 696.39 | S | -60.93 | -62.15 | 3.69 | -2.46 | -13.00 | -47.93 |
| 1427.00 | Н | -54.15 | -58.42 | 8.30 | -4.03 | -13.00 | -41.15 |

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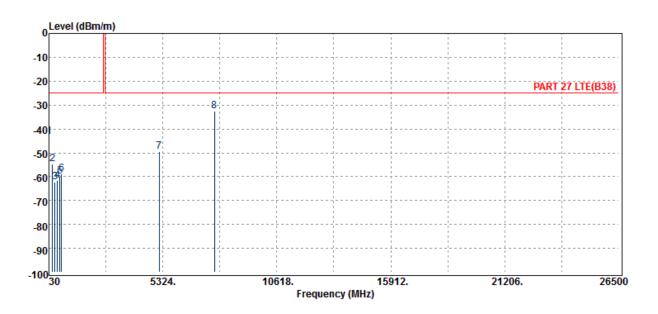
Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Operation Band Temp./Humi. :24.1 deg_C / 65 RH :LTE B38

Fundamental Frequen-:2575 MHz Engineer :Tin

:Tx CH LOW **Operation Mode**

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|---------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 31.94 | S | -43.33 | -28.66 | -14.08 | -0.59 | -25.00 | -18.33 |
| 192.96 | S | -54.83 | -56.10 | 2.71 | -1.44 | -25.00 | -29.83 |
| 298.69 | S | -62.36 | -64.13 | 3.59 | -1.82 | -25.00 | -37.36 |
| 419.94 | S | -61.71 | -63.24 | 3.64 | -2.11 | -25.00 | -36.71 |
| 531.49 | S | -59.91 | -61.61 | 4.01 | -2.31 | -25.00 | -34.91 |
| 605.21 | S | -58.75 | -60.17 | 3.57 | -2.15 | -25.00 | -33.75 |
| 5150.00 | Н | -49.61 | -54.18 | 12.69 | -8.12 | -25.00 | -24.61 |
| 7725.00 | Н | -32.51 | -32.96 | 10.66 | -10.21 | -25.00 | -7.51 |

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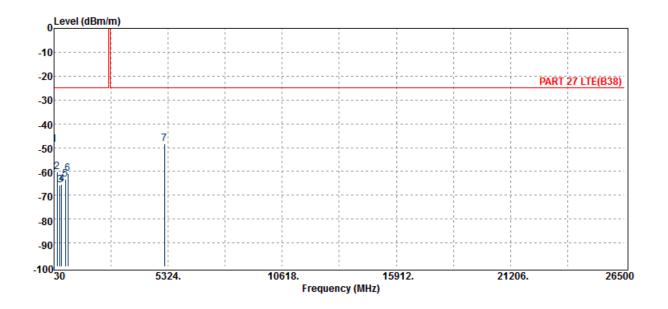
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Operation Band :LTE B38 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:2575 MHz :Tin Engineer

:Tx CH LOW **Operation Mode**

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|-------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -48.77 | -33.61 | -14.58 | -0.58 | -25.00 | -23.77 |
| 168.71 | S | -60.35 | -58.33 | -0.70 | -1.33 | -25.00 | -35.35 |
| 299.66 | S | -65.57 | -67.36 | 3.61 | -1.82 | -25.00 | -40.57 |
| 381.14 | S | -65.25 | -67.00 | 3.77 | -2.02 | -25.00 | -40.25 |
| 548.95 | S | -63.16 | -65.17 | 3.98 | -1.97 | -25.00 | -38.16 |
| 679.90 | S | -60.83 | -61.58 | 3.74 | -2.99 | -25.00 | -35.83 |
| 5150.00 | Н | -48.42 | -52.98 | 12.69 | -8.12 | -25.00 | -23.42 |

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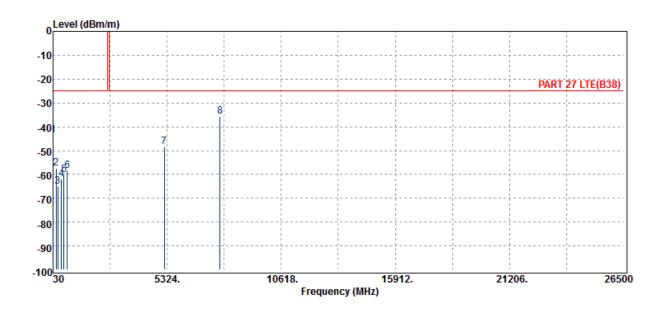
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Operation Band :LTE B38 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen- :2595 MHz :Tin Engineer

Operation Mode :Tx CH MID

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|--------|--------|--------|
| • | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 31.94 | S | -43.43 | -28.75 | -14.08 | -0.59 | -25.00 | -18.43 |
| 168.71 | S | -57.54 | -55.52 | -0.70 | -1.33 | -25.00 | -32.54 |
| 243.40 | S | -65.06 | -66.88 | 3.50 | -1.68 | -25.00 | -40.06 |
| 419.94 | S | -61.95 | -63.48 | 3.64 | -2.11 | -25.00 | -36.95 |
| 546.04 | S | -60.17 | -62.34 | 3.99 | -1.81 | -25.00 | -35.17 |
| 694.45 | S | -58.63 | -59.71 | 3.69 | -2.61 | -25.00 | -33.63 |
| 5190.00 | Н | -48.62 | -53.16 | 12.73 | -8.19 | -25.00 | -23.62 |
| 7785.00 | Н | -35.47 | -35.79 | 10.63 | -10.30 | -25.00 | -10.47 |

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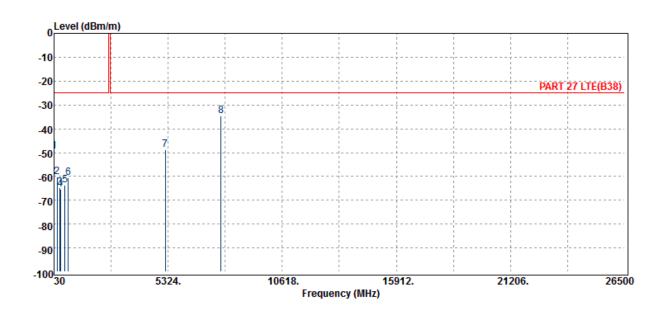


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Operation Band :LTE B38 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:2595 MHz :Tin Engineer

Operation Mode :Tx CH MID Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|--------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 31.94 | S | -49.39 | -34.72 | -14.08 | -0.59 | -25.00 | -24.39 |
| 168.71 | S | -60.28 | -58.25 | -0.70 | -1.33 | -25.00 | -35.28 |
| 298.69 | S | -64.70 | -66.47 | 3.59 | -1.82 | -25.00 | -39.70 |
| 332.64 | S | -65.57 | -67.41 | 3.78 | -1.93 | -25.00 | -40.57 |
| 547.01 | S | -63.76 | -65.88 | 3.98 | -1.86 | -25.00 | -38.76 |
| 692.51 | S | -60.68 | -61.62 | 3.70 | -2.76 | -25.00 | -35.68 |
| 5190.00 | Н | -48.64 | -53.18 | 12.73 | -8.19 | -25.00 | -23.64 |
| 7785.00 | Н | -34.66 | -34.98 | 10.63 | -10.30 | -25.00 | -9.66 |

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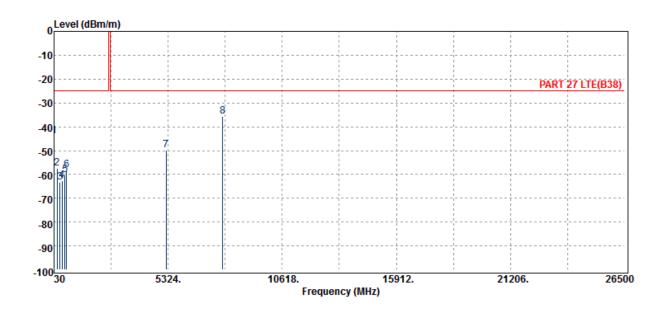
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Operation Band :LTE B38 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:2615 MHz :Tin Engineer

Operation Mode :Tx CH HIGH

Antenna :VERTICAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|----------|--------------|---------|--------|--------|--------|
| - | | | Output Level | Gain | Loss | | _ |
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | _ |
| 31.94 | S | -43.80 | -29.12 | -14.08 | -0.59 | -25.00 | -18.80 |
| 170.65 | S | -57.45 | -55.60 | -0.51 | -1.33 | -25.00 | -32.45 |
| 299.66 | S | -63.33 | -65.12 | 3.61 | -1.82 | -25.00 | -38.33 |
| 400.54 | S | -62.51 | -64.11 | 3.71 | -2.12 | -25.00 | -37.51 |
| 537.31 | S | -60.20 | -62.14 | 4.00 | -2.07 | -25.00 | -35.20 |
| 605.21 | S | -58.21 | -59.63 | 3.57 | -2.15 | -25.00 | -33.21 |
| 5230.00 | Н | -49.95 | -54.52 | 12.78 | -8.22 | -25.00 | -24.95 |
| 7845.00 | Н | -35.66 | -36.00 | 10.59 | -10.25 | -25.00 | -10.66 |

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Operation Mode

Report No.: ER/2018/30030

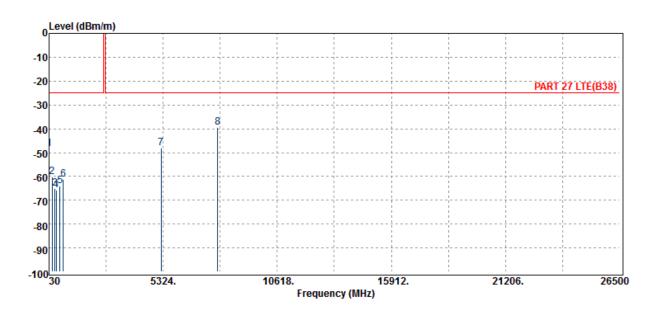
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Operation Band :LTE B38 Temp./Humi. :24.1 deg_C / 65 RH

Fundamental Frequen-:2615 MHz :Tin Engineer

:Tx CH HIGH

Antenna :HORIZONTAL Measurement EUT Pol. :H Plane Pol.



| Freq. | Note | ERP/EIRP | SG Output Level | Antenna Gain | Cable Loss | Limit | Margin |
|---------|---------|----------|--------------------|-----------------|---------------|--------|--------|
| MHz | F/H/E/S | dBm | dBm | dBd/dBi | dB | dBm | dB |
| | | | | | | | |
| 30.00 | S | -48.52 | -33.37 | -14.58 | -0.58 | -25.00 | -23.52 |
| 172.59 | S | -60.15 | -58.61 | -0.20 | -1.34 | -25.00 | -35.15 |
| 299.66 | S | -64.98 | -66.76 | 3.61 | -1.82 | -25.00 | -39.98 |
| 371.44 | S | -65.74 | -67.48 | 3.79 | -2.05 | -25.00 | -40.74 |
| 539.25 | S | -63.95 | -65.96 | 4.00 | -1.99 | -25.00 | -38.95 |
| 686.69 | S | -61.28 | -61.79 | 3.72 | -3.21 | -25.00 | -36.28 |
| 5230.00 | Н | -48.18 | -52.74 | 12.78 | -8.22 | -25.00 | -23.18 |
| 7845.00 | Н | -39.30 | -39.64 | 10.59 | -10.25 | -25.00 | -14.30 |

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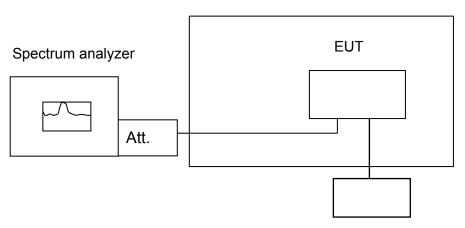
11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable

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







Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

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 . 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

| i iviououi oiliolit i | | 504 | | | |
|-----------------------------------|--------------|-------------------|--------------------|--------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUM- BER | SERIAL NUM- BER | LAST CAL. | CAL DUE. |
| EXA Spectrum Analyzer | Agilent | N9010A | MY54200716 | 2017/10/16 | 2018/10/15 |
| Radio Communication Analyer | Anritsu | MT8820C | 6201465317 | 2018/01/17 | 2019/01/16 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 2018/01/02 | 2019/01/01 |
| Splitter | RF-LAMBAD | RFLT2W1G18G | 11-JSPF412-018 | 2018/01/02 | 2019/01/01 |
| Coaxial Cables | N/A | WK CE Cable | N/A | 2018/01/02 | 2019/01/01 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 2017/05/19 | 2018/5/18 |

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11.5. Measurement Result

FREQUENCY ERROR vs. VOLTAGE

| INEQUENTIE ENROR VOLVACE | | | | | | | | |
|--------------------------|--------------------|--------------------|-----------------|------------|--|--|--|--|
| Ret | ference Frequenc | y: GPRS 850 Mid | Channel 836.6 M | 1Hz | | | | |
| | | Limit: +/- 2.5 ppm | | | | | | |
| Power Supply | Environment | Frequency | | | | | | |
| Vdc | Temperature () | (MHz) | Delta (Hz) | Limit (Hz) | | | | |
| 4.43 | 20 | 836.599998 | -1.999999995 | 2091 | | | | |
| 3.85 | 20 | 836.6 | 0 | 2091 | | | | |
| 3.27 | 20 | 836.600003 | 2.999999992 | 2091 | | | | |
| 3 (End point) | 20 | 836.600002 | 1.999999995 | 2091 | | | | |

FREQUENCY ERROR vs. TEMPERATURE

| Re | Reference Frequency: GPRS 850 Mid Channel 836.6 MHz | | | | | | | | |
|--------------|---|--------------------|--------------|------------|--|--|--|--|--|
| | | Limit: +/- 2.5 ppm | | | | | | | |
| Power Supply | Environment | Frequency | | | | | | | |
| Vdc | Temperature () | (MHz) | Delta (Hz) | Limit (Hz) | | | | | |
| 3.85 | 50 | 836.599997 | -2.999999992 | 2091 | | | | | |
| 3.85 | 40 | 836.600005 | 4.999999987 | 2091 | | | | | |
| 3.85 | 30 | 836.599994 | -5.999999985 | 2091 | | | | | |
| 3.85 | 20 | 836.600003 | 2.999999992 | 2091 | | | | | |
| 3.85 | 10 | 836.600001 | 0.999999997 | 2091 | | | | | |
| 3.85 | 0 | 836.600002 | 1.999999995 | 2091 | | | | | |
| 3.85 | -10 | 836.600001 | 0.999999997 | 2091 | | | | | |
| 3.85 | -20 | 836.600007 | 6.999999982 | 2091 | | | | | |
| 3.85 | -30 | 836.600003 | 2.999999992 | 2091 | | | | | |

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FREQUENCY ERROR vs. VOLTAGE

| Reference Frequency: GPRS 1900 Mid Channel 1880 MHz | | | | | |
|---|--------------------|-------------|--------------|------------|--|
| | Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | | | |
| Vdc | Temperature () | (MHz) | Delta (Hz) | Limit (Hz) | |
| 4.43 | 20 | 1879.999991 | -9.000000091 | 4700 | |
| 3.85 | 20 | 1879.999992 | -7.99999998 | 4700 | |
| 3.27 | 20 | 1879.999997 | -3.000000106 | 4700 | |
| 3 (End point) | 20 | 1880.000003 | 3.000000106 | 4700 | |

FREQUENCY ERROR vs. TEMPERATURE

| Reference Frequency: GPRS 1900 Mid Channel 1880 MHz | | | | | |
|---|-------------------------|-------------|--------------|--------------|--|
| | Limit: +/- 2.5 ppm = Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Linait (LI-) | |
| Vdc | Temperature () | (MHz) | Della (112) | Limit (Hz) | |
| 3.85 | 50 | 1879.999996 | -3.99999999 | 4700 | |
| 3.85 | 40 | 1879.999996 | -3.99999999 | 4700 | |
| 3.85 | 30 | 1880 | 0 | 4700 | |
| 3.85 | 20 | 1879.999999 | -1.00000111 | 4700 | |
| 3.85 | 10 | 1880.000004 | 3.99999999 | 4700 | |
| 3.85 | 0 | 1880.000006 | 5.99999985 | 4700 | |
| 3.85 | -10 | 1880.000009 | 9.000000091 | 4700 | |
| 3.85 | -20 | 1879.999994 | -5.999999985 | 4700 | |
| 3.85 | -30 | 1880.000002 | 1.999999995 | 4700 | |

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FREQUENCY ERROR vs. VOLTAGE

| Reference Frequency: WCDMA II Mid Channel 1880 MHz | | | | | |
|--|--------------------|-------------|--------------|------------|--|
| | Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | | Limit (Hz) | |
| Vdc | Temperature () | (MHz) | Delta (Hz) | | |
| 4.43 | 20 | 1880.000006 | 5.99999985 | 4700 | |
| 3.85 | 20 | 1880.000002 | 1.999999995 | 4700 | |
| 3.27 | 20 | 1879.999993 | -7.000000096 | 4700 | |
| 3 (End point) | 20 | 1880.000005 | 5.000000101 | 4700 | |

FREQUENCY ERROR vs. TEMPERATURE

| Ref | Reference Frequency: WCDMA II Mid Channel 1880 MHz | | | | |
|--------------------|--|-------------|--------------|------------|--|
| Limit: +/- 2.5 ppm | | | | | |
| Power Supply | Environment | Frequency | | | |
| Vdc | Temperature () | (MHz) | Delta (Hz) | Limit (Hz) | |
| 3.85 | 50 | 1879.999993 | -7.000000096 | 4700 | |
| 3.85 | 40 | 1880.000003 | 3.00000106 | 4700 | |
| 3.85 | 30 | 1880 | 0 | 4700 | |
| 3.85 | 20 | 1880.000004 | 3.99999999 | 4700 | |
| 3.85 | 10 | 1880.000009 | 9.000000091 | 4700 | |
| 3.85 | 0 | 1880.000001 | 1.000000111 | 4700 | |
| 3.85 | -10 | 1880.000002 | 1.999999995 | 4700 | |
| 3.85 | -20 | 1880.000009 | 9.000000091 | 4700 | |
| 3.85 | -30 | 1880.000009 | 9.00000091 | 4700 | |

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FREQUENCY ERROR vs. VOLTAGE

| Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz | | | | | |
|--|--------------------|-------------|--------------|------------|--|
| | Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | | Limit (Hz) | |
| Vdc | Temperature () | (MHz) | Delta (Hz) | | |
| 4.43 | 20 | 1732.599994 | -5.999999985 | 4331 | |
| 3.85 | 20 | 1732.599993 | -6.999999869 | 4331 | |
| 3.27 | 20 | 1732.600001 | 1.000000111 | 4331 | |
| 3 (End point) | 20 | 1732.599998 | -1.999999995 | 4331 | |

FREQUENCY ERROR vs. TEMPERATURE

| Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz | | | | | |
|--|--------------------|-------------|--------------|------------|--|
| | Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | | | |
| Vdc | Temperature () | (MHz) | Delta (Hz) | Limit (Hz) | |
| 3.85 | 50 | 1732.599994 | -5.999999985 | 4331 | |
| 3.85 | 40 | 1732.599994 | -5.999999985 | 4331 | |
| 3.85 | 30 | 1732.600007 | 7.000000096 | 4331 | |
| 3.85 | 20 | 1732.59999 | -9.999999975 | 4331 | |
| 3.85 | 10 | 1732.599994 | -5.999999985 | 4331 | |
| 3.85 | 0 | 1732.599998 | -1.999999995 | 4331 | |
| 3.85 | -10 | 1732.599996 | -3.99999999 | 4331 | |
| 3.85 | -20 | 1732.600006 | 5.99999985 | 4331 | |
| 3.85 | -30 | 1732.599993 | -6.999999869 | 4331 | |

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FREQUENCY ERROR vs. VOLTAGE

| Reference Frequency: WCDMA V Mid Channel 836.6 MHz | | | | | |
|--|--------------------|------------|--------------|------------|--|
| | Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | | | |
| Vdc | Temperature () | (MHz) | Delta (Hz) | Limit (Hz) | |
| 4.43 | 20 | 836.600004 | 3.9999999 | 2091 | |
| 3.85 | 20 | 836.599991 | -8.999999977 | 2091 | |
| 3.27 | 20 | 836.599995 | -4.999999987 | 2091 | |
| 3 (End point) | 20 | 836.600001 | 0.999999997 | 2091 | |

FREQUENCY ERROR vs. TEMPERATURE

| Refe | Reference Frequency: WCDMA V Mid Channel 836.6 MHz | | | | |
|--------------|--|------------|--------------|------------|--|
| | Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | | | |
| Vdc | Temperature () | (MHz) | Delta (Hz) | Limit (Hz) | |
| 3.85 | 50 | 836.600002 | 1.999999995 | 2091 | |
| 3.85 | 40 | 836.599997 | -2.999999992 | 2091 | |
| 3.85 | 30 | 836.600006 | 5.99999985 | 2091 | |
| 3.85 | 20 | 836.600001 | 0.999999997 | 2091 | |
| 3.85 | 10 | 836.600008 | 7.9999998 | 2091 | |
| 3.85 | 0 | 836.599998 | -1.999999995 | 2091 | |
| 3.85 | -10 | 836.599996 | -3.99999999 | 2091 | |
| 3.85 | -20 | 836.599991 | -8.999999977 | 2091 | |
| 3.85 | -30 | 836.599998 | -1.999999995 | 2091 | |

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| Reference Freq.: | LTE B2 Mid Channel | | 1880 | MHz 20M QPSK CH 18900 | | |
|---------------------|-------------------------|--------------|------------|--------------------------|--|--|
| Power Supply Vdc | Temp. () | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) | | |
| | Freq. ERROR vs. VOLTAGE | | | | | |
| 4.43 | 25 | 1879.999998 | -2 | 4700 | | |
| 3.85 | 25 | 1880.000000 | 0 | 4700 | | |
| 3.27 | 25 | 1880.000003 | 3.00000011 | 4700 | | |
| 3 (End Point) | 25 | 1880.000001 | 1.00000011 | 4700 | | |
| | Freq. I | ERROR vs. Te | mp. | | | |
| 3.85 | -30 | 1879.999997 | -3.0000001 | 4700 | | |
| 3.85 | -20 | 1880.000005 | 5.0000001 | 4700 | | |
| 3.85 | -10 | 1879.999994 | -6 | 4700 | | |
| 3.85 | 0 | 1880.000003 | 3.00000011 | 4700 | | |
| 3.85 | 10 | 1880.000001 | 1.00000011 | 4700 | | |
| 3.85 | 20 | 1880.000002 | 1.99999999 | 4700 | | |
| 3.85 | 30 | 1880.000001 | 1.00000011 | 4700 | | |
| 3.85 | 40 | 1880.000007 | 7.0000001 | 4700 | | |
| 3.85 | 50 | 1880.00003 | 3.00000011 | 4700 | | |

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| Reference Freq.: | LTE B4 Mid Channel | | 1732.5 | MHz 20M QPSK CH 20175 | |
|-------------------------|-----------------------|--------------|------------|--------------------------|--|
| Power Supply Vdc | Temp. () | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) | |
| Freq. ERROR vs. VOLTAGE | | | | | |
| 4.43 | 25 | 1732.499991 | -9.0000001 | 4331 | |
| 3.85 | 25 | 1732.499992 | -8 | 4331 | |
| 3.27 | 25 | 1732.499997 | -3.0000001 | 4331 | |
| 3 (End Point) | 25 | 1732.500003 | 3.00000011 | 4331 | |
| | Freq. E | RROR vs. Tei | mp. | | |
| 3.85 | -30 | 1732.499996 | -4 | 4331 | |
| 3.85 | -20 | 1732.499996 | -4 | 4331 | |
| 3.85 | -10 | 1732.500000 | 0 | 4331 | |
| 3.85 | 0 | 1732.499999 | -1.0000001 | 4331 | |
| 3.85 | 10 | 1732.500004 | 3.99999999 | 4331 | |
| 3.85 | 20 | 1732.500006 | 5.9999998 | 4331 | |
| 3.85 | 30 | 1732.500009 | 9.00000009 | 4331 | |
| 3.85 | 40 | 1732.499994 | -6 | 4331 | |
| 3.85 | 50 | 1732.500002 | 1.99999999 | 4331 | |

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| Reference Freq.: | LTE B5 Mid Channel | | 836.5 | MHz 10M QPSK CH 20525 | |
|-------------------------|-----------------------|--------------|------------|--------------------------|--|
| Power Supply Vdc | Temp. () | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) | |
| Freq. ERROR vs. VOLTAGE | | | | | |
| 4.43 | 25 | 836.500006 | 5.99999998 | 2091 | |
| 3.85 | 25 | 836.500002 | 1.99999999 | 2091 | |
| 3.27 | 25 | 836.499993 | -7 | 2091 | |
| 3 (End Point) | 25 | 836.500005 | 4.99999999 | 2091 | |
| | Freq. I | ERROR vs. Te | emp. | | |
| 3.85 | -30 | 836.499993 | -7 | 2091 | |
| 3.85 | -20 | 836.500003 | 2.99999999 | 2091 | |
| 3.85 | -10 | 836.500000 | 0 | 2091 | |
| 3.85 | 0 | 836.500004 | 3.99999999 | 2091 | |
| 3.85 | 10 | 836.500009 | 8.9999998 | 2091 | |
| 3.85 | 20 | 836.500001 | 1 | 2091 | |
| 3.85 | 30 | 836.500002 | 1.99999999 | 2091 | |
| 3.85 | 40 | 836.500009 | 8.9999998 | 2091 | |
| 3.85 | 50 | 836.500009 | 8.99999998 | 2091 | |

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| Reference Freq.: | LTE B12 Mid Channel | d | 707.5 | MHz 10M QPSK CH 23095 | |
|-------------------------|------------------------|--------------|------------|--------------------------|--|
| Power Supply Vdc | Temp. () | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) | |
| Freq. ERROR vs. VOLTAGE | | | | | |
| 4.43 | 25 | 707.499996 | -4 | 1769 | |
| 3.85 | 25 | 707.500003 | 2.99999999 | 1769 | |
| 3.27 | 25 | 707.499998 | -2 | 1769 | |
| 3 (End Point) | 25 | 707.500001 | 1 | 1769 | |
| | Freq. | ERROR vs. Te | emp. | | |
| 3.85 | -30 | 707.499996 | -4 | 1769 | |
| 3.85 | -20 | 707.499997 | -3 | 1769 | |
| 3.85 | -10 | 707.499992 | -8 | 1769 | |
| 3.85 | 0 | 707.500004 | 3.99999999 | 1769 | |
| 3.85 | 10 | 707.500001 | 1 | 1769 | |
| 3.85 | 20 | 707.499990 | -10 | 1769 | |
| 3.85 | 30 | 707.500009 | 8.9999998 | 1769 | |
| 3.85 | 40 | 707.499997 | -3 | 1769 | |
| 3.85 | 50 | 707.499994 | -6 | 1769 | |

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| Reference Freq.: | LTE B13 Mid Freq.: Channel | | 782 | MHz 10M QPSK CH 23230 | | | |
|-------------------------|-------------------------------|--------------|------------|--------------------------|--|--|--|
| Power Supply Vdc | Temp. () | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz | | | |
| Freq. ERROR vs. VOLTAGE | | | | | | | |
| 4.43 | 25 | 781.999994 | -6 | 1955 | | | |
| 3.85 | 25 | 781.999993 | -7 | 1955 | | | |
| 3.27 | 25 | 782.000001 | 1 | 1955 | | | |
| 3 (End Point) | 25 | 781.999998 | -2 | 1955 | | | |
| | Freq. | ERROR vs. Te | mp. | | | | |
| 3.85 | -30 | 781.999994 | -6 | 1955 | | | |
| 3.85 | -20 | 781.999994 | -6 | 1955 | | | |
| 3.85 | -10 | 782.000007 | 6.9999998 | 1955 | | | |
| 3.85 | 0 | 781.999990 | -10 | 1955 | | | |
| 3.85 | 10 | 781.999994 | -6 | 1955 | | | |
| 3.85 | 20 | 781.999998 | -2 | 1955 | | | |
| 3.85 | 30 | 781.999996 | -4 | 1955 | | | |
| 3.85 | 40 | 782.000006 | 5.99999998 | 1955 | | | |
| 3.85 | 50 | 781.999993 | -7 | 1955 | | | |

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| Reference Freq.: | LTE B17 Mid Channel | LTE B17 Mid Channel | | MHz 10M QPSK CH 23790 | | |
|-------------------------|------------------------|------------------------|------------|--------------------------|--|--|
| Power Supply Vdc | Temp. () | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) | | |
| Freq. ERROR vs. VOLTAGE | | | | | | |
| 4.43 | 25 | 710.000004 | 3.99999999 | 1775 | | |
| 3.85 | 25 | 709.999991 | -9 | 1775 | | |
| 3.27 | 25 | 709.999995 | -5 | 1775 | | |
| 3 (End Point) | 25 | 710.000001 | 1 | 1775 | | |
| Freq. ERROR vs. Temp. | | | | | | |
| 3.85 | -30 | 710.000002 | 1.99999999 | 1775 | | |
| 3.85 | -20 | 709.999997 | -3 | 1775 | | |
| 3.85 | -10 | 710.000006 | 5.99999998 | 1775 | | |
| 3.85 | 0 | 710.000001 | 1 | 1775 | | |
| 3.85 | 10 | 710.000008 | 7.99999998 | 1775 | | |
| 3.85 | 20 | 709.999998 | -2 | 1775 | | |
| 3.85 | 30 | 709.999996 | -4 | 1775 | | |
| 3.85 | 40 | 709.999991 | -9 | 1775 | | |
| 3.85 | 50 | 709.999998 | -2 | 1775 | | |

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| Reference Freq.: | LTE B38 Mid Channel | | 2595 | MHz 10M QPSK CH 38000 | | | |
|-------------------------|------------------------|-------------|------------|--------------------------|--|--|--|
| Power Supply Vdc | Temp. () | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) | | | |
| Freq. ERROR vs. VOLTAGE | | | | | | | |
| 4.43 | 25 | 2594.999992 | -8 | 6488 | | | |
| 3.85 | 25 | 2594.999995 | -4.9999999 | 6488 | | | |
| 3.27 | 25 | 2595.000000 | 0 | 6488 | | | |
| 3 (End Point) | 25 | 2594.999998 | -2.0000002 | 6488 | | | |
| Freq. ERROR vs. Temp. | | | | | | | |
| 3.85 | -30 | 2594.999995 | -4.9999999 | 6488 | | | |
| 3.85 | -20 | 2595.000001 | 0.9999988 | 6488 | | | |
| 3.85 | -10 | 2595.000004 | 3.99999999 | 6488 | | | |
| 3.85 | 0 | 2595.000009 | 8.9999986 | 6488 | | | |
| 3.85 | 10 | 2595.000007 | 7.0000001 | 6488 | | | |
| 3.85 | 20 | 2595.000006 | 6.00000021 | 6488 | | | |
| 3.85 | 30 | 2594.999994 | -6.0000002 | 6488 | | | |
| 3.85 | 40 | 2594.999990 | -10 | 6488 | | | |
| 3.85 | 50 | 2594.999990 | -10 | 6488 | | | |

Note: The battery is rated 3.85V dc.

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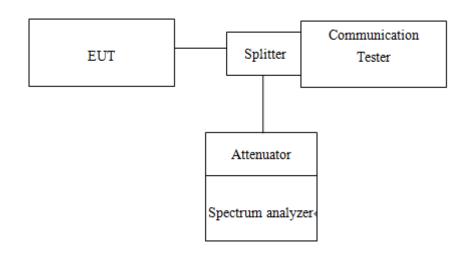
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12. **PEAK TO AVERAGE RATIO**

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
- Set the number of counts to a value that stabilizes the measured CCDF curve.

12.4. Measurement Equipment Used

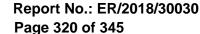
| EQUIPMENT TYPE | MFR | MODEL NUM- BER | SERIAL NUM- BER | LAST CAL. | CAL DUE. |
|-----------------------------------|--------------|-------------------|--------------------|--------------|------------|
| EXA Spectrum Analyzer | Agilent | N9010A | MY54200716 | 2017/10/16 | 2018/10/15 |
| Radio Communication Analyer | Anritsu | MT8820C | 6201465317 | 2018/01/17 | 2019/01/16 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 2018/01/02 | 2019/01/01 |
| Splitter | RF-LAMBAD | RFLT2W1G18G | 11-JSPF412-018 | 2018/01/02 | 2019/01/01 |
| Coaxial Cables | N/A | WK CE Cable | N/A | 2018/01/02 | 2019/01/01 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 2017/05/19 | 2018/5/18 |

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12.5. Measurement Result

Tabular Results:

| Freq. (MHz) | | Peak-to-Average Ratio (dB) | | | | |
|----------------|-----|----------------------------|------|--|--|--|
| | СН | GSM | GPRS | | | |
| | | 850 | 850 | | | |
| 824.2 | 128 | 10.18 | 9.72 | | | |
| 836.6 | 190 | 10.39 | 9.56 | | | |
| 848.8 | 251 | 9.62 | 9.81 | | | |

| Freq. (MHz) | | Peak-to-Average Ratio (dB) | | | | |
|----------------|-----|----------------------------|------|--|--|--|
| | CH | GSM | GPRS | | | |
| (IVITIZ) | | 1900 | 1900 | | | |
| 1850.2 | 512 | 9.88 | 9.18 | | | |
| 1880 | 661 | 10.4 | 8.08 | | | |
| 1909.8 | 810 | 10.06 | 8.28 | | | |

| Freq. (MHz) | | Peak-to- | Average R | atio (dB) |
|----------------|------|----------|-----------|-----------|
| | CH | WCDMA | HSDPA | HSUPA |
| (IVITIZ) | | II | II | II |
| 1852.4 | 9262 | 2.78 | 2.73 | 3.16 |
| 1880 | 9400 | 3.03 | 3.04 | 2.96 |
| 1907.6 | 9538 | 2.82 | 2.81 | 2.85 |

| Erog | | Peak-to- | Average R | atio (dB) |
|----------------|------|----------|-----------|-----------|
| Freq. (MHz) | CH | WCDMA | HSDPA | HSUPA |
| (IVII IZ) | | IV | IV | IV |
| 1712.4 | 1312 | 3.01 | 3.06 | 3.04 |
| 1732.6 | 1413 | 3.07 | 3.06 | 3.10 |
| 1752.6 | 1513 | 2.69 | 3.03 | 3.05 |

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Peak-to-Average Ratio (dB) Freq. CH WCDMA **HSDPA HSUPA** (MHz) ٧ ٧ 3.08 3.10 826.4 4132 3.08 3.04 3.05 4183 3.07 836.6 846.6 4233 3.08 3.07 3.07

| LTE BAND 2 | | | | | | | | | |
|------------|---------------------------|-----------------|-------|--------|-----------|------------|-------|--|--|
| Chan | Channel bandwidth: 1.4MHz | | | | nnel band | lwidth: 3N | lHz | | |
| Freq. | СН | PAPR (dB) Freq. | | СН | PAPR | PAPR (dB) | | | |
| (MHz) | CII | 64QAM | Limit | (MHz) | СН | 64QAM | Limit | | |
| 1850.7 | 18607 | 6.15 | 13 | 1851.5 | 18615 | 6.22 | 13 | | |
| 1880.0 | 18900 | 6.11 | 13 | 1880.0 | 18900 | 6.07 | 13 | | |
| 1909.3 | 19193 | 6.03 | 13 | 1908.5 | 19185 | 6.19 | 13 | | |

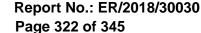
| | LTE BAND 2 | | | | | | | | | | |
|--------|------------|------------|-------|--------------------------|-------|-------|-------|--|--|--|--|
| Char | nnel band | lwidth: 5N | lHz | Channel bandwidth: 10MHz | | | | | | | |
| Freq. | СН | PAPR | (dB) | Freq. | СН | PAPR | (dB) | | | | |
| (MHz) | СП | 64QAM | Limit | (MHz) | СН | 64QAM | Limit | | | | |
| 1852.5 | 18625 | 6.03 | 13 | 1855.0 | 18650 | 6.00 | 13 | | | | |
| 1880.0 | 18900 | 6.05 | 13 | 1880.0 | 18900 | 6.03 | 13 | | | | |
| 1907.5 | 19175 | 5.99 | 13 | 1905.0 | 19150 | 6.05 | 13 | | | | |

| | LTE BAND 2 | | | | | | | | | |
|--------|------------|------------|-------|--------|----------|------------|-------|--|--|--|
| Chan | nel band | width: 15N | ЛHz | Chan | nel band | width: 20N | ЛHz | | | |
| Freq. | СН | PAPR | (dB) | Freq. | СП | PAPR | (dB) | | | |
| (MHz) | Сп | 64QAM | Limit | (MHz) | СН | 64QAM | Limit | | | |
| 1857.5 | 18675 | 6.17 | 13 | 1860.0 | 18700 | 6.58 | 13 | | | |
| 1880.0 | 18900 | 6.10 | 13 | 1880.0 | 18900 | 6.49 | 13 | | | |
| 1902.5 | 19125 | 6.16 | 13 | 1900.0 | 19100 | 6.65 | 13 | | | |

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LTE BAND 4 Channel bandwidth: 1.4MHz Channel bandwidth: 3MHz PAPR (dB) PAPR (dB) Freq. Freq. CH CH (MHz) 64QAM Limit (MHz) 64QAM Limit 19957 19965 1710.7 5.86 13 1711.5 5.86 13 13 13 1732.5 20175 6.24 1732.5 6.16 20175 1754.3 20393 5.83 13 1753.5 20385 5.85 13

| | LTE BAND 4 | | | | | | | | | |
|--------|------------|------------|-------|--------|----------|-------------|-----------|--|--|--|
| Chan | nel band | dwidth: 5N | /lHz | Chanı | nel band | lwidth: 10l | MHz | | | |
| Freq. | СН | PAPR | (dB) | Freq. | СН | PAPR | PAPR (dB) | | | |
| (MHz) | СП | 64QAM | Limit | (MHz) | СН | 64QAM | Limit | | | |
| 1712.5 | 19957 | 5.72 | 13 | 1715.0 | 20000 | 5.91 | 13 | | | |
| 1732.5 | 20175 | 6.06 | 13 | 1732.5 | 20175 | 6.02 | 13 | | | |
| 1752.5 | 20375 | 5.87 | 13 | 1750.0 | 20350 | 5.83 | 13 | | | |

| LTE BAND 4 | | | | | | | | | |
|------------|----------|------------|-------|--------|----------|------------|-----------|--|--|
| Chanı | nel band | lwidth: 15 | MHz | Chani | nel band | lwidth: 20 | MHz | | |
| Freq. | СН | PAPR | (dB) | Freq. | СН | PAPR | PAPR (dB) | | |
| (MHz) | СП | 64QAM | Limit | (MHz) | Сп | 64QAM | Limit | | |
| 1717.5 | 20025 | 6.17 | 13 | 1720.0 | 20050 | 6.65 | 13 | | |
| 1732.5 | 20175 | 6.03 | 13 | 1732.5 | 20175 | 6.61 | 13 | | |
| 1747.5 | 20325 | 6.08 | 13 | 1745.0 | 20300 | 6.81 | 13 | | |

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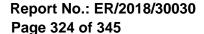
| | LTE BAND 5 | | | | | | | | | |
|-------|------------|-------------|-------|-------|-----------|------------|-----------|--|--|--|
| Chan | nel band | width: 1.4l | MHz | Char | nnel band | lwidth: 3N | lHz | | | |
| Freq. | СН | PAPR | (dB) | Freq. | СН | PAPR | PAPR (dB) | | | |
| (MHz) | СП | 64QAM | Limit | (MHz) | СН | 64QAM | Limit | | | |
| 824.7 | 20407 | 6.09 | 13 | 825.5 | 20415 | 6.18 | 13 | | | |
| 836.5 | 20525 | 6.14 | 13 | 836.5 | 20525 | 6.07 | 13 | | | |
| 848.3 | 20643 | 6.04 | 13 | 847.5 | 20635 | 6.05 | 13 | | | |

| | LTE BAND 5 | | | | | | | | | |
|-------------------------|------------|-------|-------|-------|--------------------------|-------|-----------|--|--|--|
| Channel bandwidth: 5MHz | | | | Chan | Channel bandwidth: 10MHz | | | | | |
| Freq. | СН | PAPR | (dB) | Freq. | СН | PAPR | PAPR (dB) | | | |
| (MHz) | СП | 64QAM | Limit | (MHz) | СН | 64QAM | Limit | | | |
| 826.5 | 20425 | 6.06 | 13 | 829.0 | 20450 | 6.00 | 13 | | | |
| 836.5 | 20525 | 6.09 | 13 | 836.5 | 20525 | 6.10 | 13 | | | |
| 846.5 | 20625 | 5.99 | 13 | 844.0 | 20600 | 6.04 | 13 | | | |

| | LTE BAND 12 | | | | | | | | | | |
|-------|---------------------------|-------|-------|-------|-----------|------------|-------|--|--|--|--|
| Chan | Channel bandwidth: 1.4MHz | | | | nnel band | lwidth: 3N | lHz | | | | |
| Freq. | СН | PAPR | (dB) | Freq. | СН | PAPR | (dB) | | | | |
| (MHz) | СП | 64QAM | Limit | (MHz) | СН | 64QAM | Limit | | | | |
| 699.7 | 23017 | 6.02 | 13 | 700.5 | 23025 | 6.15 | 13 | | | | |
| 707.5 | 23095 | 5.82 | 13 | 707.5 | 23095 | 5.97 | 13 | | | | |
| 715.3 | 23173 | 6.06 | 13 | 714.5 | 23165 | 6.00 | 13 | | | | |

| LTE BAND 12 | | | | | | | | | |
|-------------|-----------|------------|-------|--------------------------|-------|-----------|-------|--|--|
| Char | nnel band | lwidth: 5N | 1Hz | Channel bandwidth: 10MHz | | | | | |
| Freq. CH | | PAPR (dB) | | Freq. | СН | PAPR (dB) | | | |
| (MHz) | СП | 64QAM | Limit | (MHz) | Сп | 64QAM | Limit | | |
| 701.5 | 23035 | 6.00 | 13 | 704.0 | 23060 | 6.14 | 13 | | |
| 707.5 | 23095 | 5.83 | 13 | 707.5 | 23095 | 5.82 | 13 | | |
| 713.5 | 23155 | 5.67 | 13 | 711.0 | 23130 | 5.76 | 13 | | |

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| LTE BAND 13 | | | | | | | | | |
|-------------|-----------|------------|-------|--------------------------|-----------|-------|-------|--|--|
| Chan | nel ban | dwidth: 5N | /lHz | Channel bandwidth: 10MHz | | | | | |
| Freq. CH | PAPR (dB) | | Freq. | СН | PAPR (dB) | | | | |
| (MHz) | СП | 64QAM | Limit | (MHz) | СП | 64QAM | Limit | | |
| 779.5 | 23205 | 6.06 | 13 | | | | | | |
| 782.0 | 23230 | 6.00 | 13 | 782.0 | 23230 | 6.04 | 13 | | |
| 784.5 | 23255 | 5.99 | 13 | | | | | | |

| LTE BAND 17 | | | | | | | | | | |
|-------------------------|-----------|-------|-------|--------------------------|-----------|-------|-------|--|--|--|
| Channel bandwidth: 5MHz | | | | Channel bandwidth: 10MHz | | | | | | |
| Freq. (MHz) | PAPR (dB) | | Freq. | СН | PAPR (dB) | | | | | |
| | CII | 64QAM | Limit | (MHz) | CII | 64QAM | Limit | | | |
| 706.5 | 23755 | 6.05 | 13 | 709 | 23780 | 6.01 | 13 | | | |
| 710 | 23790 | 5.70 | 13 | 710 | 23790 | 6.08 | 13 | | | |
| 713.5 | 23825 | 6.01 | 13 | 711 | 23780 | 6.06 | 13 | | | |

| LTE BAND 38 | | | | | | | | | |
|-------------|-----------|------------|-------|--------------------------|-------|-----------|-------|--|--|
| Char | nnel band | lwidth: 5N | lHz | Channel bandwidth: 10MHz | | | | | |
| Freq. | СН | PAPR (dB) | | Freq. | СН | PAPR (dB) | | | |
| (MHz) | СП | 64QAM | Limit | (MHz) | СП | 64QAM | Limit | | |
| 2572.5 | 37775 | 10.10 | 13 | 2575 | 37800 | 9.41 | 13 | | |
| 2595.0 | 38000 | 9.70 | 13 | 2595 | 38000 | 9.20 | 13 | | |
| 2617.5 | 38225 | 9.99 | 13 | 2615 | 38200 | 9.99 | 13 | | |

| LTE BAND 38 | | | | | | | | | |
|--------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|--|--|
| Channel bandwidth: 15MHz | | | | Channel bandwidth: 20MHz | | | | | |
| Freq. (MHz) | СН | PAPR (dB) | | Freq. | СН | PAPR (dB) | | | |
| | | 64QAM | Limit | (MHz) | СП | 64QAM | Limit | | |
| 2577.5 | 37825 | 7.46 | 13 | 2580.0 | 37850 | 9.18 | 13 | | |
| 2595.0 | 38000 | 10.73 | 13 | 2595.0 | 38000 | 9.57 | 13 | | |
| 2612.5 | 38175 | 9.58 | 13 | 2610.0 | 38150 | 8.66 | 13 | | |

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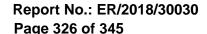


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Measurement Results:

Please refer to next page

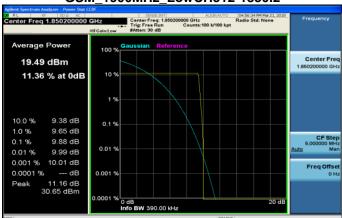




GSM 850MHz LowCH128-824.2



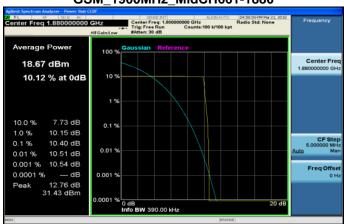
GSM 1900MHz LowCH512-1850.2



GSM 850MHz MidCH190-836.6



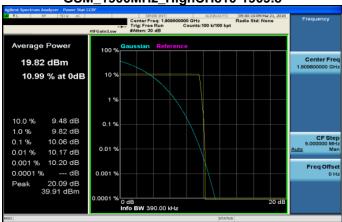
GSM_1900MHz_MidCH661-1880



GSM_850MHz_HighCH251-848.8



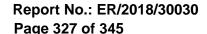
GSM_1900MHz_HighCH810-1909.8



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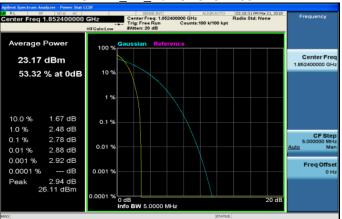




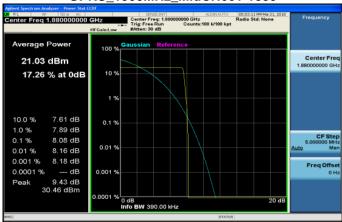
GPRS 1900MHz LowCH512-1850.2



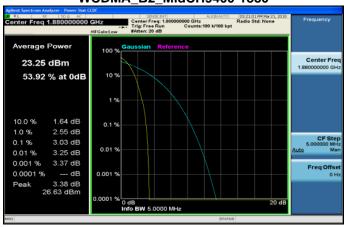
WCDMA B2 LowCH9262-1852.4



GPRS_1900MHz_MidCH661-1880



WCDMA B2 MidCH9400-1880



GPRS_1900MHz_HighCH810-1909.8

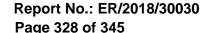


WCDMA_B2_HighCH9538-1907.6



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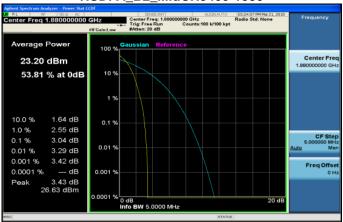
HSDPA B2 LowCH9262-1852.4



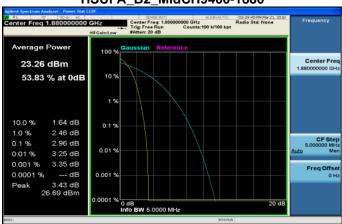
HSUPA B2 LowCH9262-1852.4



HSDPA B2 MidCH9400-1880



HSUPA B2 MidCH9400-1880



HSDPA_B2_HighCH9538-1907.6



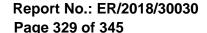
HSUPA_B2_HighCH9538-1907.6



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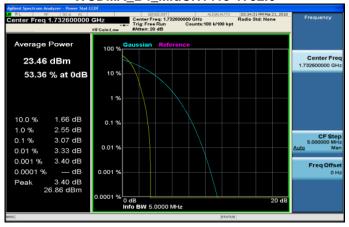
WCDMA B4 LowCH1312-1712.4



HSDPA B4 LowCH1312-1712.4



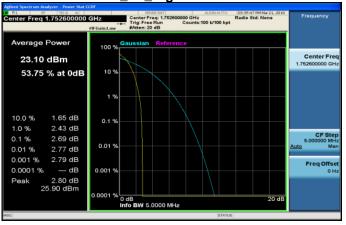
WCDMA B4 MidCH1413-1732.6



HSDPA B4 MidCH1413-1732.6



WCDMA_B4_HighCH1513-1752.6



HSDPA_B4_HighCH1513-1752.6

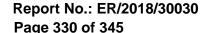


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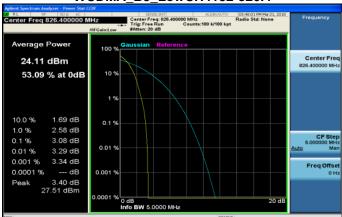




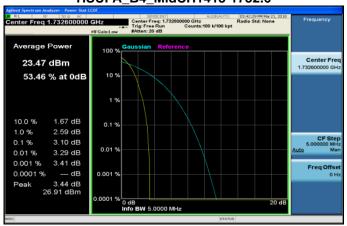
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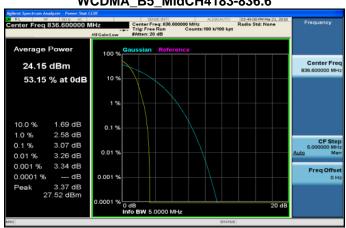
WCDMA B5 LowCH4132-826.4



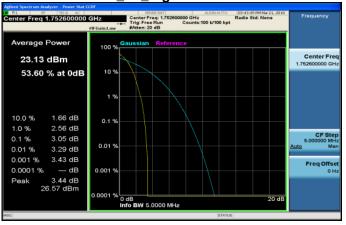
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WCDMA B5 MidCH4183-836.6



HSUPA_B4_HighCH1513-1752.6



WCDMA_B5_HighCH4233-846.6

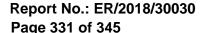


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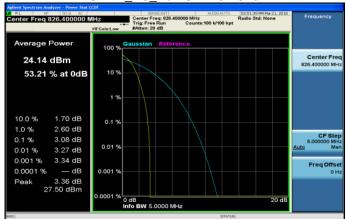
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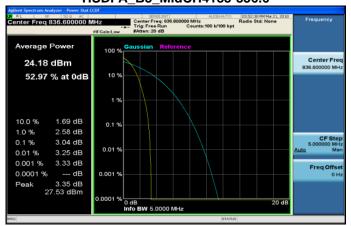
HSDPA B5 LowCH4132-826.4



HSUPA B5 LowCH4132-826.4



HSDPA B5 MidCH4183-836.6



HSUPA B5 MidCH4183-836.6



HSDPA_B5_HighCH4233-846.6



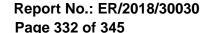
HSUPA_B5_HighCH4233-846.6



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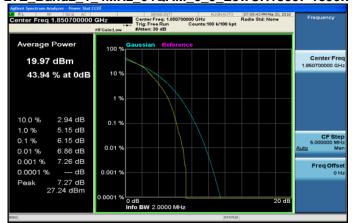
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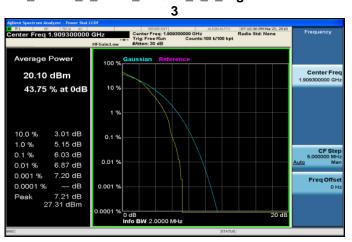
LTE Band2 1 4MHz 64QAM 6 0 LowCH18607-1850.7



LTE Band2_1_4MHz_64QAM_6_0_MidCH18900-1880



LTE_Band2_1_4MHz_64QAM_6_0_HighCH19193-1909.



LTE Band2 3MHz 64QAM 15 0 LowCH18615-1851.5



LTE_Band2_3MHz_64QAM_15_0_MidCH18900-1880

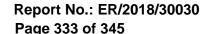


LTE_Band2_3MHz_64QAM_15_0_HighCH19185-1908.5



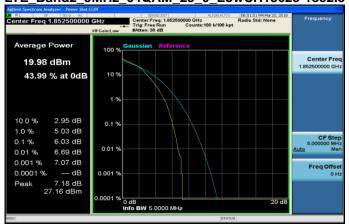
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LTE Band2 5MHz 64QAM 25 0 LowCH18625-1852.5



LTE Band2 10MHz 64QAM 50 0 LowCH18650-1855



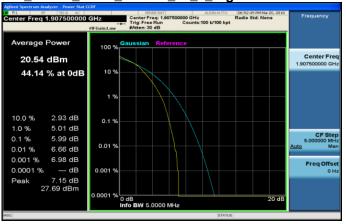
LTE Band2 5MHz 64QAM 25 0 MidCH18900-1880



LTE Band2 10MHz 64QAM 50 0 MidCH18900-1880



LTE_Band2_5MHz_64QAM_25_0_HighCH19175-1907.5



LTE_Band2_10MHz_64QAM_50_0_HighCH19150-1905

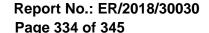


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LTE Band2 15MHz 64QAM 75 0 LowCH18675-1857.5



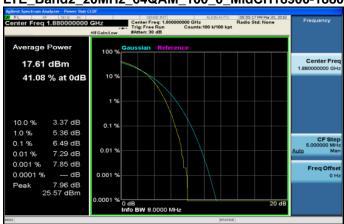
LTE Band2 20MHz 64QAM 100 0 LowCH18700-1860



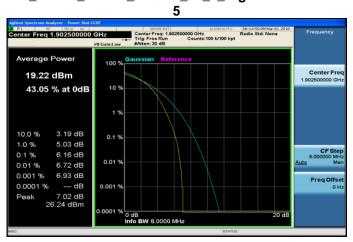
LTE_Band2_15MHz_64QAM_75_0_MidCH18900-1880



LTE_Band2_20MHz_64QAM_100_0_MidCH18900-1880



LTE_Band2_15MHz_64QAM_75_0_HighCH19125-1902.



LTE_Band2_20MHz_64QAM_100_0_HighCH19100-1900



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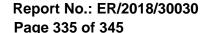
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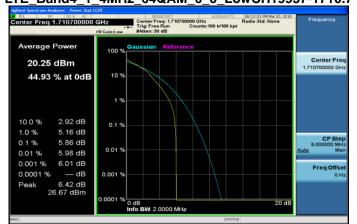
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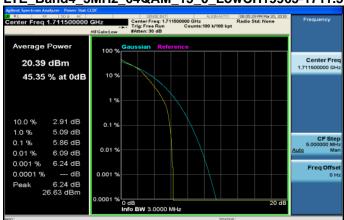




LTE Band4 1 4MHz 64QAM 6 0 LowCH19957-1710.7



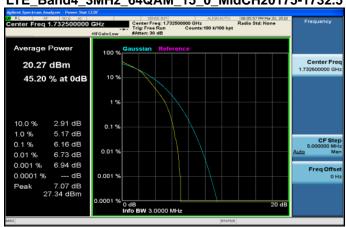
LTE Band4 3MHz 64QAM 15 0 LowCH19965-1711.5



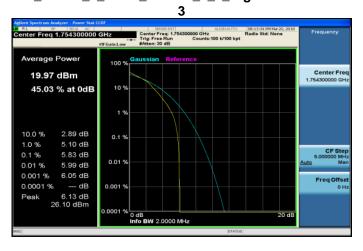
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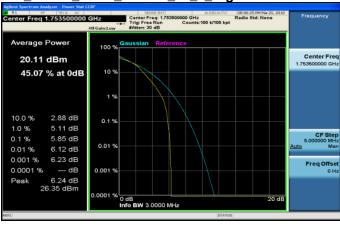
LTE Band4_3MHz_64QAM_15_0_MidCH20175-1732.5



LTE_Band4_1_4MHz_64QAM_6_0_HighCH20393-1754.



LTE_Band4_3MHz_64QAM_15_0_HighCH20385-1753.5

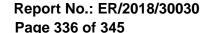


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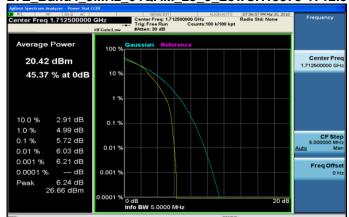
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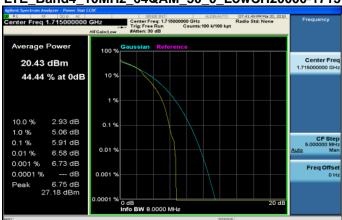




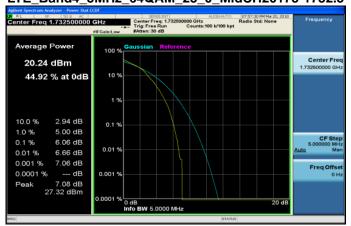
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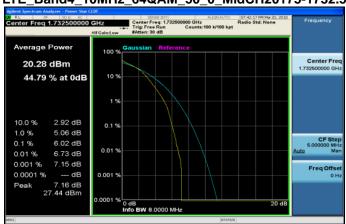
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LTE Band4 5MHz 64QAM 25 0 MidCH20175-1732.5



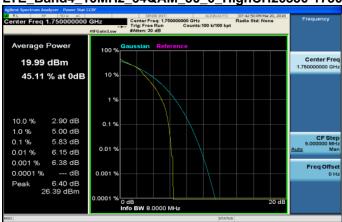
LTE Band4 10MHz 64QAM 50 0 MidCH20175-1732.5



LTE_Band4_5MHz_64QAM_25_0_HighCH20375-1752.5



LTE_Band4_10MHz_64QAM_50_0_HighCH20350-1750



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