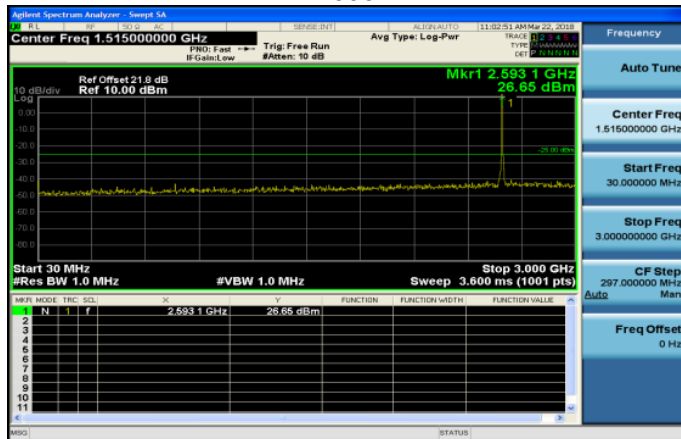


30MHz~3GHz\_Band38\_5MHz\_QPSK\_1\_0\_MidCH38000-2595



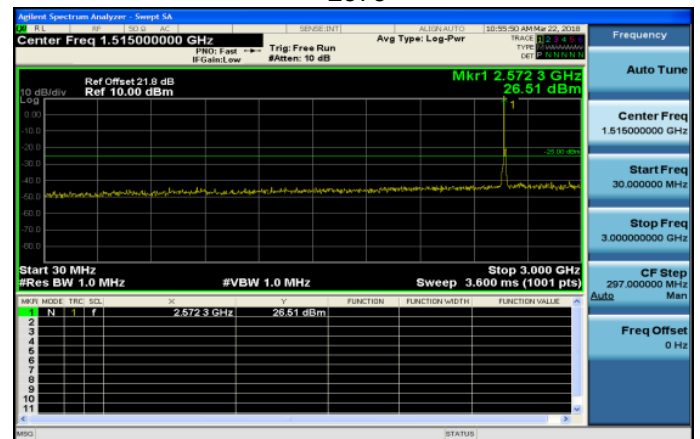
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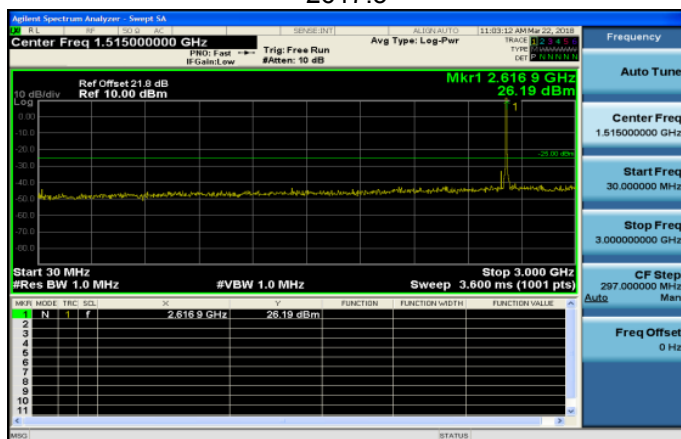
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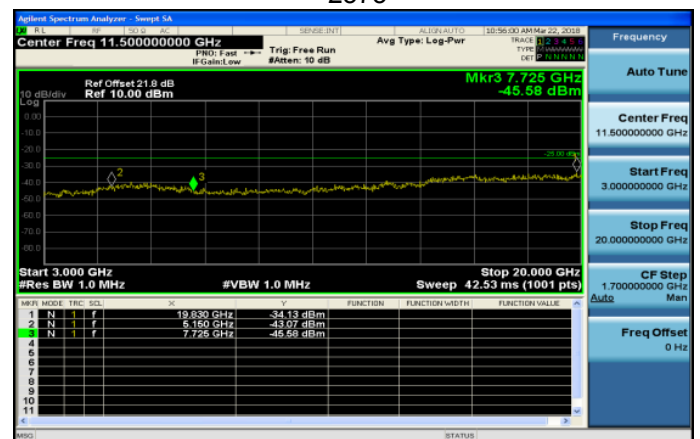
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30MHz~3GHz\_Band38\_5MHz\_QPSK\_1\_0\_HighCH38225-2617.5



3GHz~10GHz\_Band38\_10MHz\_QPSK\_1\_0\_LowCH37800-2575



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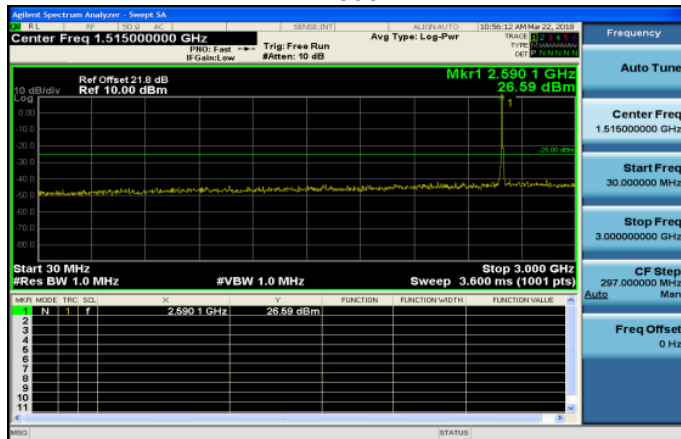
t (886-2) 2299-3279

f (886-2) 2298-0488

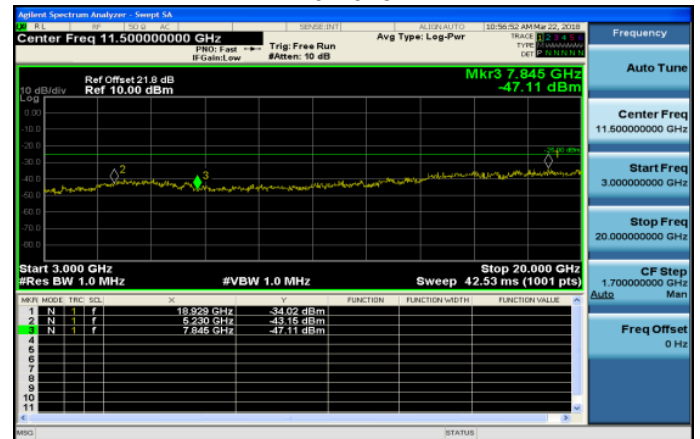
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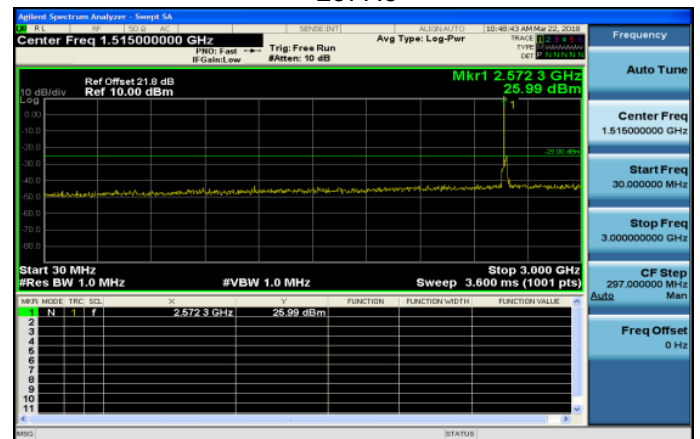
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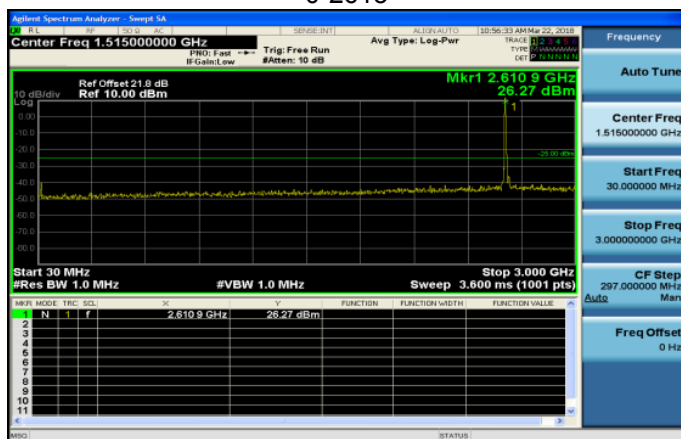
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30MHz~3GHz\_Band38\_15MHz\_QPSK\_1\_0\_LowCH37825-2577.5



30MHz~3GHz\_Band38\_10MHz\_QPSK\_1\_0\_HighCH382000-2615



3GHz~10GHz\_Band38\_15MHz\_QPSK\_1\_0\_LowCH37825-2577.5



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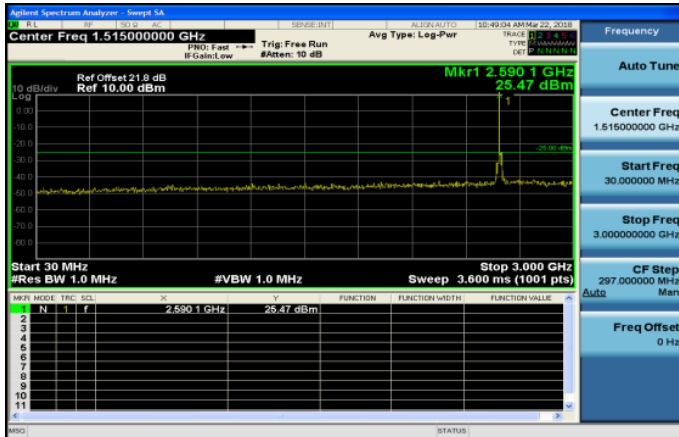
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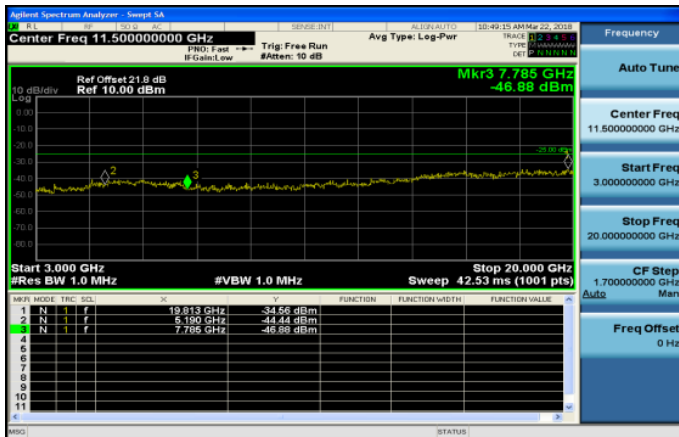
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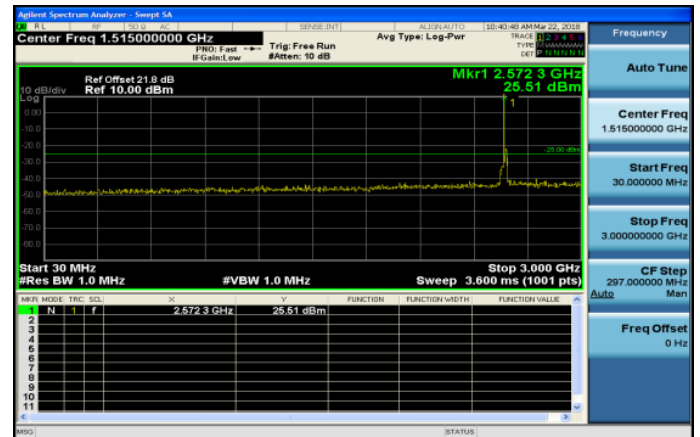
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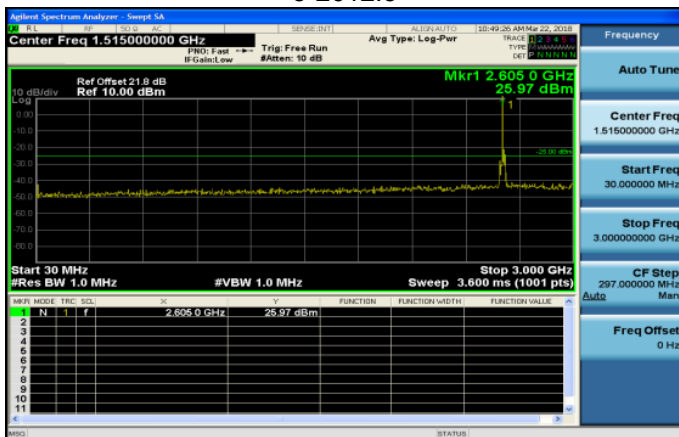
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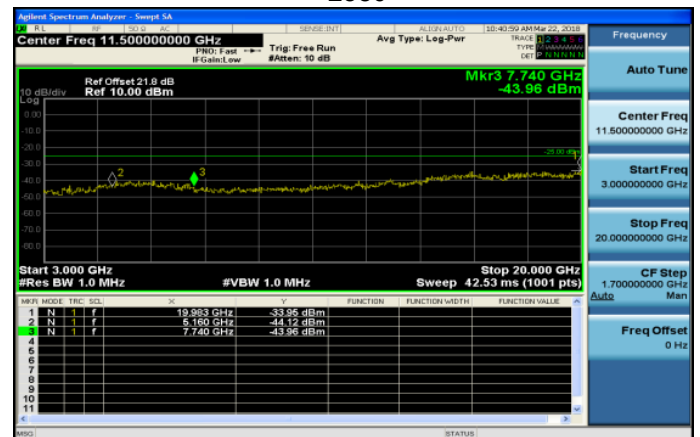
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30MHz~3GHz\_Band38\_15MHz\_QPSK\_1\_0\_HighCH38175-2612.5



3GHz~10GHz\_Band38\_20MHz\_QPSK\_1\_0\_LowCH37850-2580



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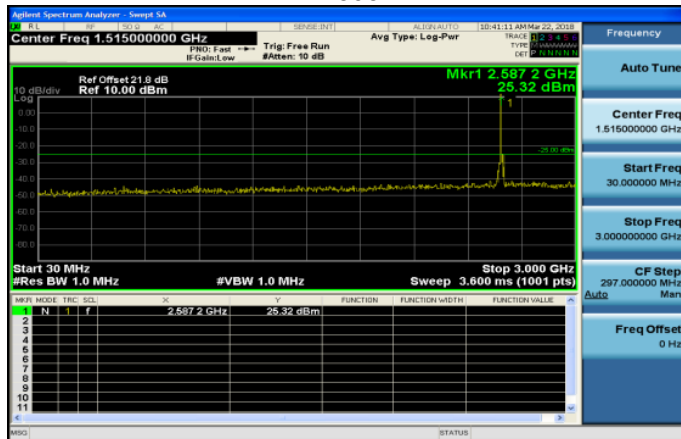
t (886-2) 2299-3279

f (886-2) 2298-0488

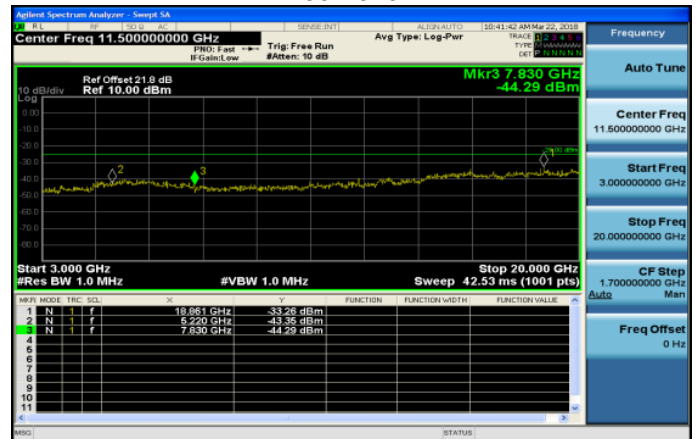
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30MHz~3GHz\_Band38\_20MHz\_QPSK\_1\_0\_MidCH38000  
-2595



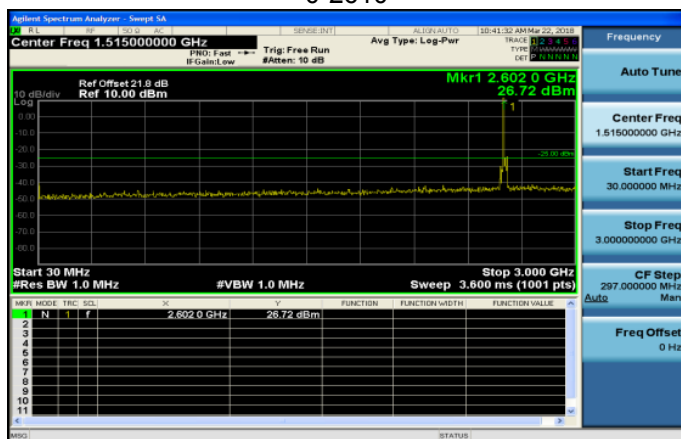
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50-2610



3GHz~10GHz\_Band38\_20MHz\_QPSK\_1\_0\_MidCH38000  
-2595



30MHz~3GHz\_Band38\_20MHz\_QPSK\_1\_0\_HighCH3815  
0-2610



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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 licensee's frequency block (-13dBm).

FCC §27.53(g)

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 than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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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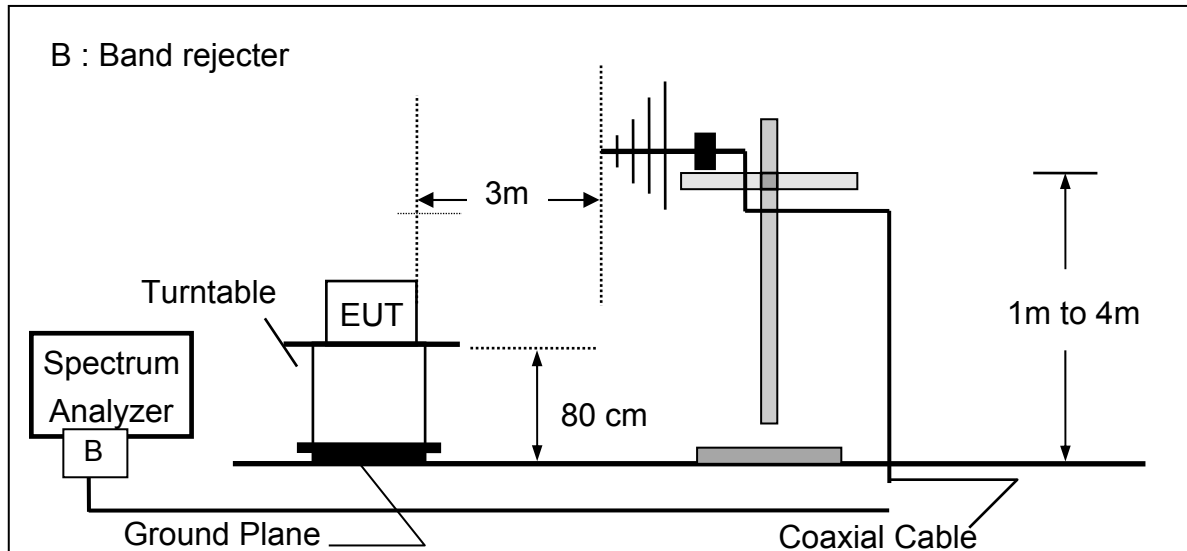
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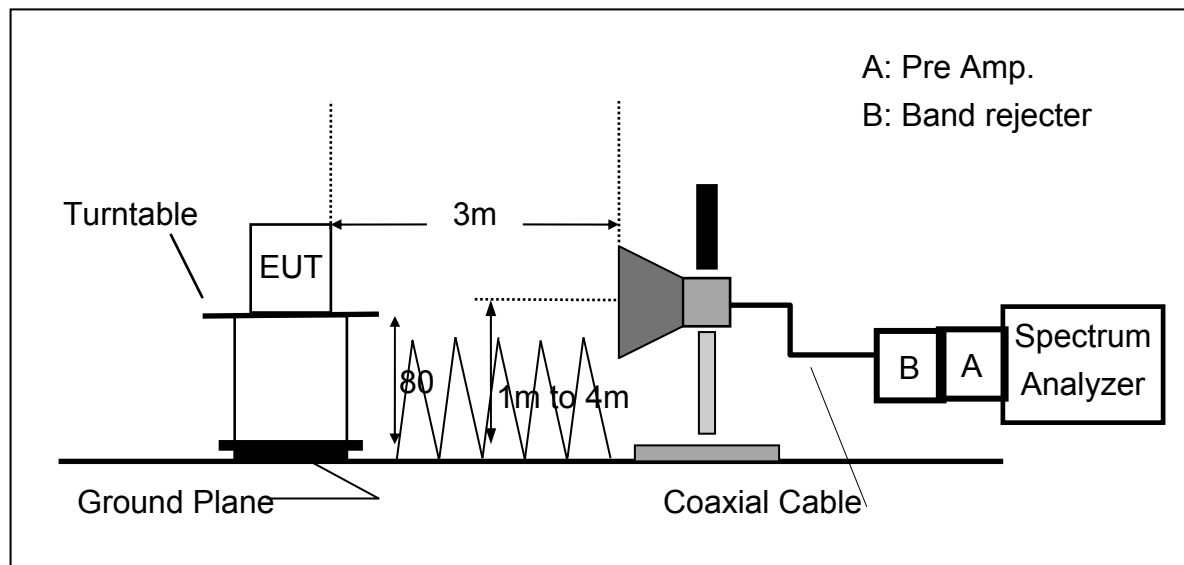
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## 10.2. EUT Setup

### Radiated Emission Test Set-Up, Frequency Below 1000MHz



### Radiated Emission Test Set-UP Frequency Over 1 GHz



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### 10.3. Measurement Procedure:

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

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

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

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

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

### 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 Analyser | 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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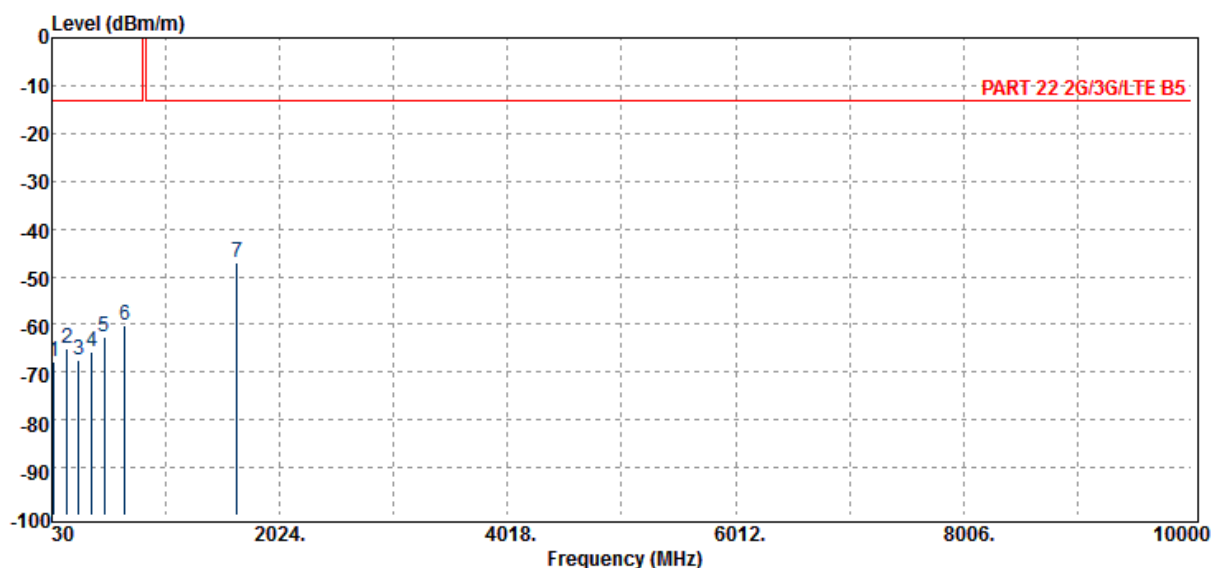
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## 10.5. Measurement Result:

### Radiated Spurious Emission Measurement Result: GPRS 850 Mode

|                       |            |                  |                   |
|-----------------------|------------|------------------|-------------------|
| Operation Band        | :GPRS 850  | Temp./Humi.      | :24 deg_C / 61 RH |
| Fundamental Frequency | :824.2 MHz | Engineer         | :Tin              |
| Operation Mode        | :Tx CH LOW |                  |                   |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :VERTICAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -47.04          | -49.66                    | 6.97                       | -4.35               | -13.00       | -34.04       |

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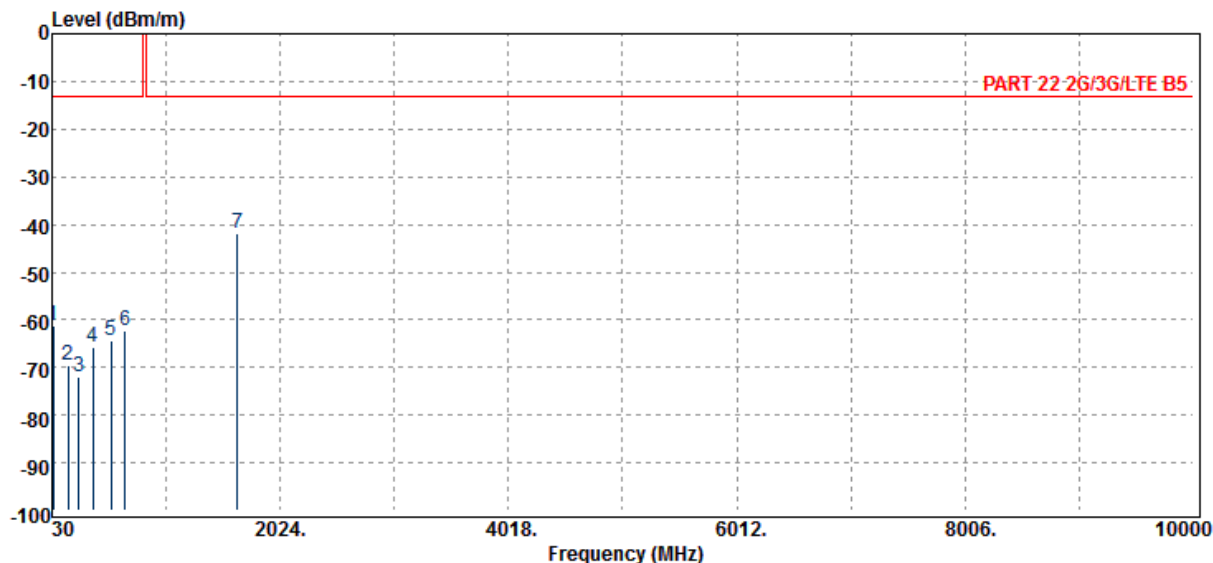
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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :GPRS 850  | Temp./Humi.              | :24 deg_C / 61 RH |
| Fundamental Frequency | :824.2 MHz | Engineer                 | :Tin              |
| Operation Mode        | :Tx CH LOW |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -42.02          | -44.65                    | 6.97                       | -4.35               | -13.00       | -29.02       |

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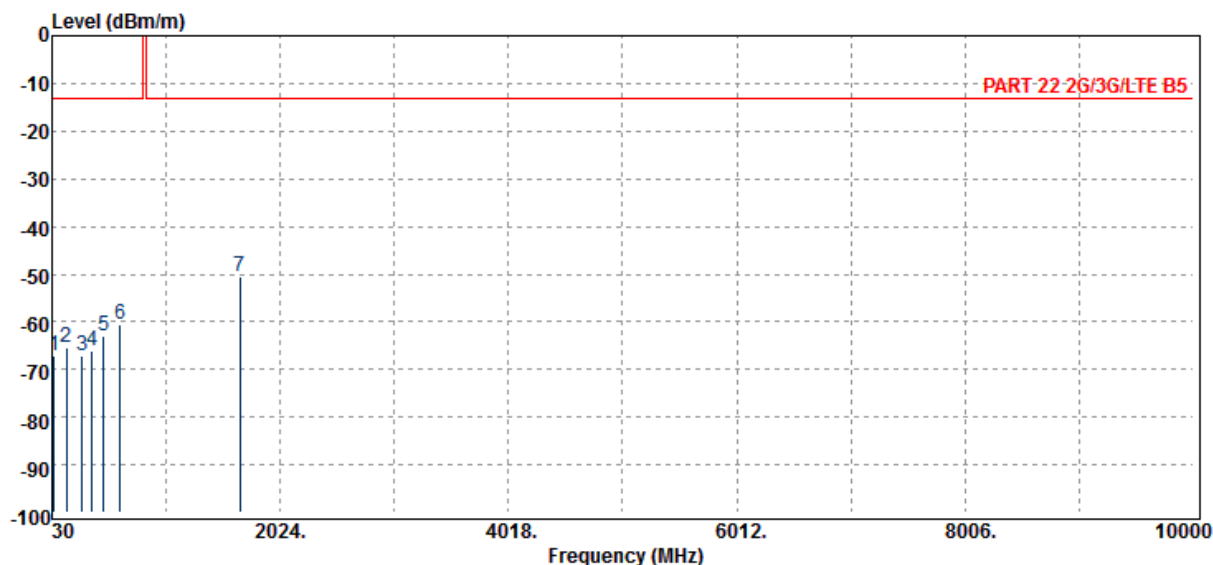
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|                       |            |                  |                   |
|-----------------------|------------|------------------|-------------------|
| Operation Band        | :GPRS 850  | Temp./Humi.      | :24 deg_C / 61 RH |
| Fundamental Frequency | :836.6 MHz | Engineer         | :Tin              |
| Operation Mode        | :Tx CH MID |                  |                   |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna:VERTICAL  |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -50.44          | -53.11                    | 7.06                       | -4.39               | -13.00       | -37.44       |

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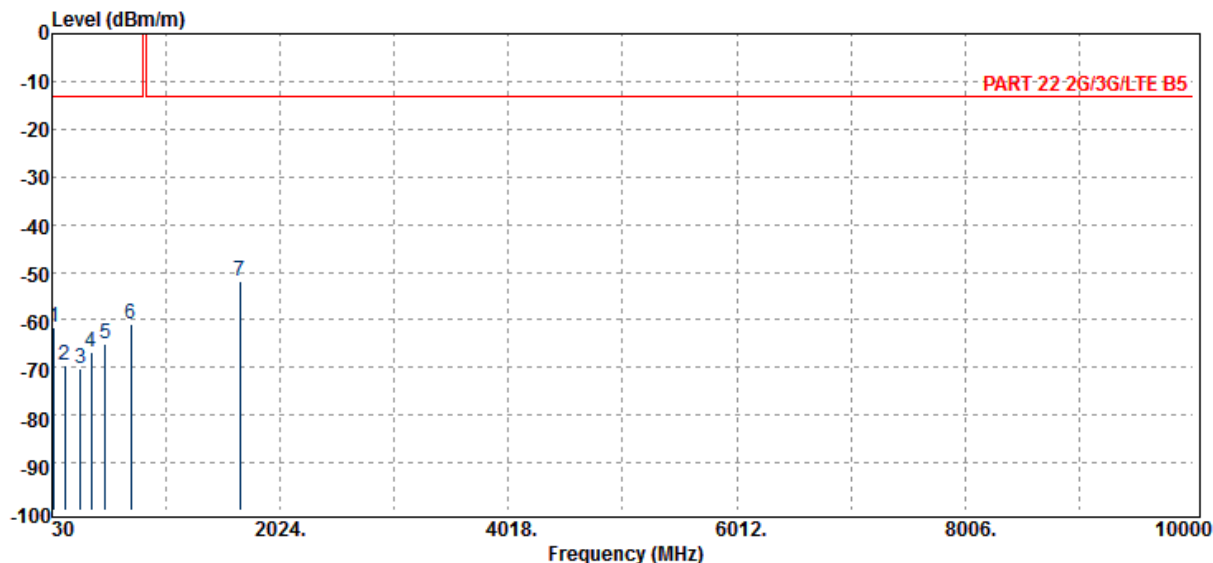
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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :GPRS 850  | Temp./Humi.              | :24 deg_C / 61 RH |
| Fundamental Frequency | :836.6 MHz | Engineer                 | :Tin              |
| Operation Mode        | :Tx CH MID |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -51.82          | -54.48                    | 7.06                       | -4.39               | -13.00       | -38.82       |

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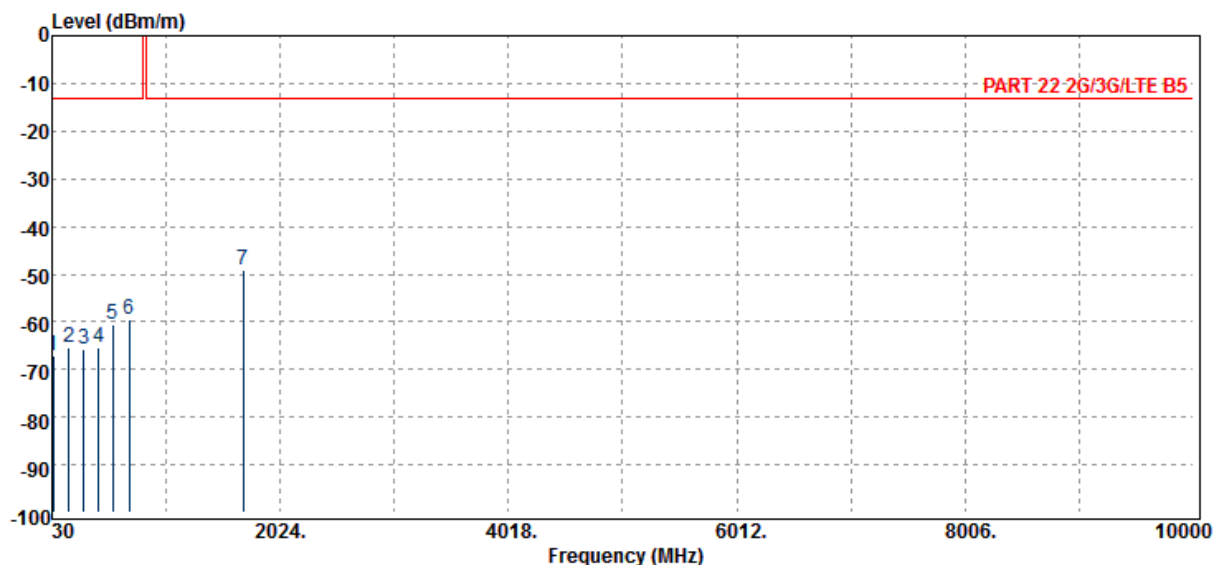
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|                       |             |                  |                   |
|-----------------------|-------------|------------------|-------------------|
| Operation Band        | :GPRS 850   | Temp./Humi.      | :24 deg_C / 61 RH |
| Fundamental Frequency | :848.8 MHz  | Engineer         | :Tin              |
| Operation Mode        | :Tx CH HIGH |                  |                   |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna:VERTICAL  |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -49.08          | -51.79                    | 7.14                       | -4.43               | -13.00       | -36.08       |

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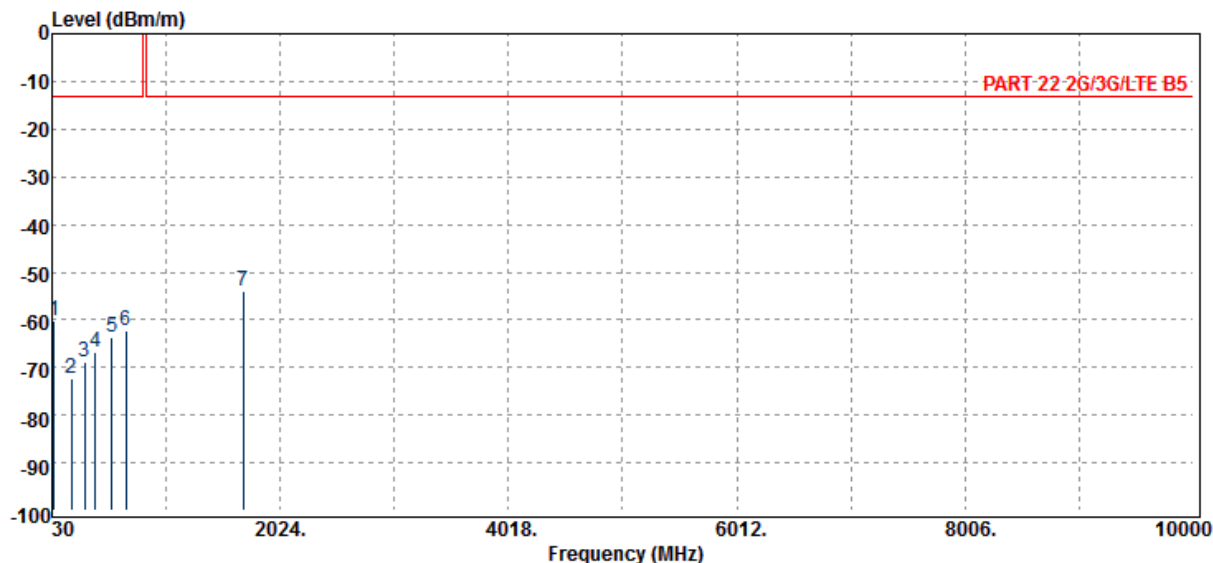
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :GPRS 850   | Temp./Humi.      | :24 deg_C / 61 RH   |
| Fundamental Frequency | :848.8 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -53.96          | -56.67                    | 7.14                       | -4.43               | -13.00       | -40.96       |

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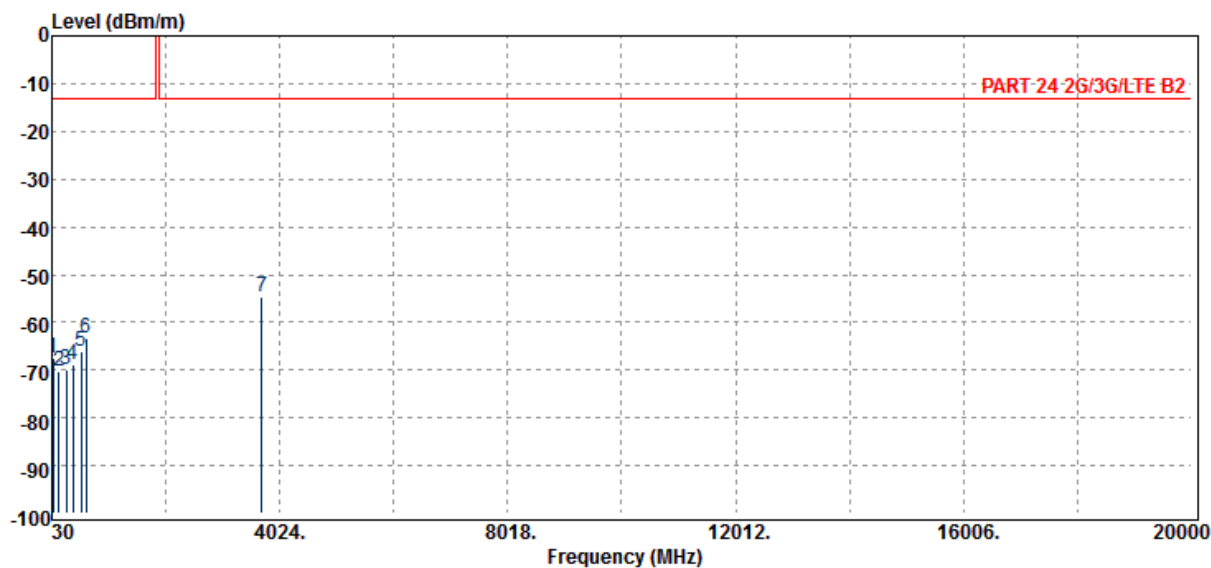
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## Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

|                       |             |                  |                   |
|-----------------------|-------------|------------------|-------------------|
| Operation Band        | :GPRS 1900  | Temp./Humi.      | :22 deg_C / 61 RH |
| Fundamental Frequency | :1850.2 MHz | Engineer         | :Tin              |
| Operation Mode        | :Tx CH LOW  |                  |                   |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :VERTICAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -54.72          | -60.58                    | 12.44                      | -6.58               | -13.00       | -41.72       |

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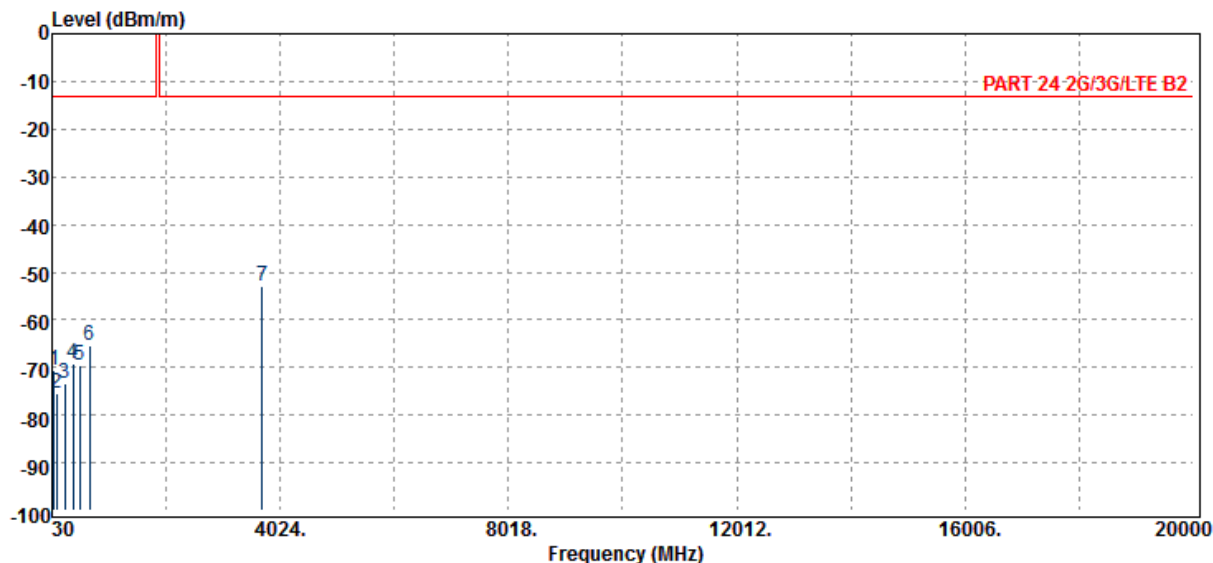
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :GPRS 1900  | Temp./Humi.      | :22 deg_C / 61 RH   |
| Fundamental Frequency | :1850.2 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW  |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -53.08          | -58.94                    | 12.44                      | -6.58               | -13.00       | -40.08       |

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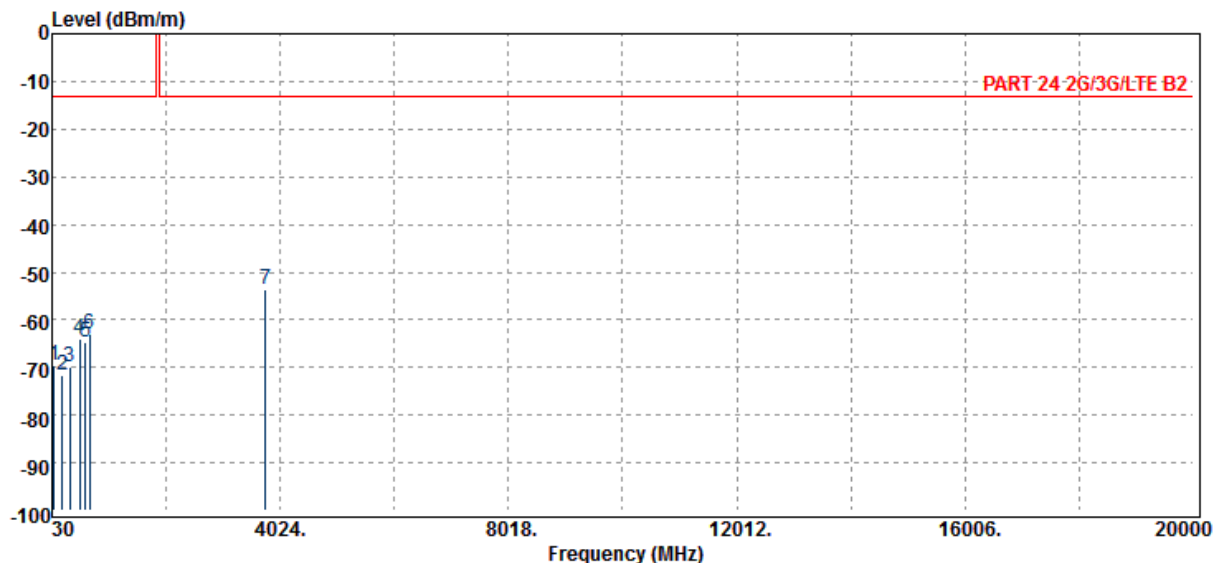
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|                       |            |             |                   |
|-----------------------|------------|-------------|-------------------|
| Operation Band        | :GPRS 1900 | Temp./Humi. | :22 deg_C / 61 RH |
| Fundamental Frequency | :1880 MHz  | Engineer    | :Tin              |
| Operation Mode        | :Tx CH MID | Measurement | Antenna:VERTICAL  |
| EUT Pol.              | :H Plane   | Pol.        |                   |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -53.66          | -59.51                    | 12.45                      | -6.60               | -13.00       | -40.66       |

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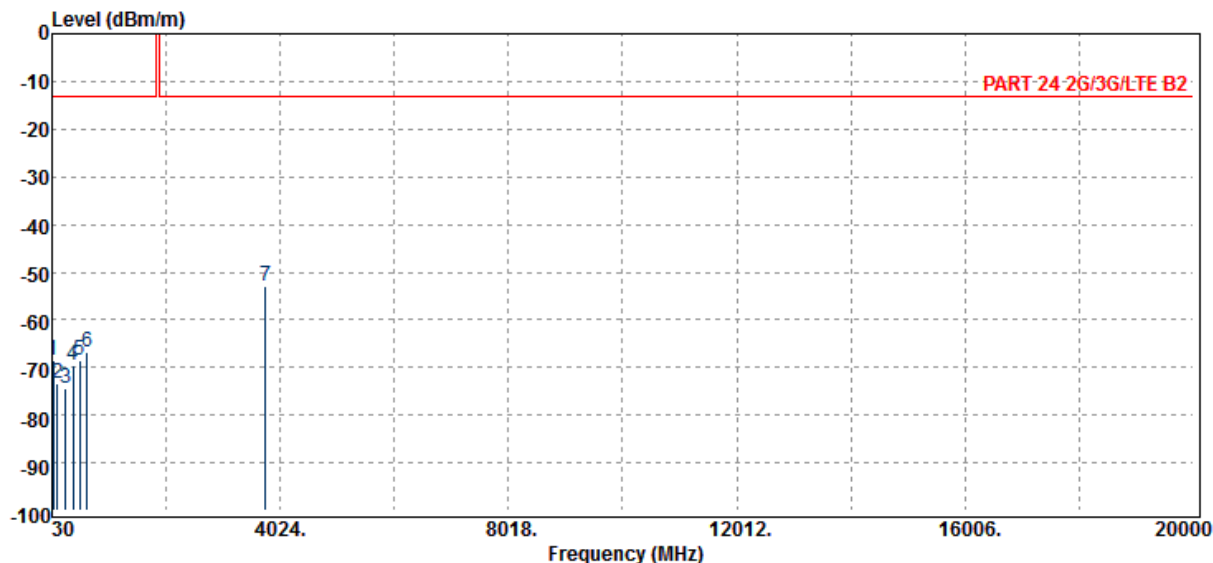
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :GPRS 1900 | Temp./Humi.      | :22 deg_C / 61 RH   |
| Fundamental Frequency | :1880 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -53.00          | -58.86                    | 12.45                      | -6.60               | -13.00       | -40.00       |

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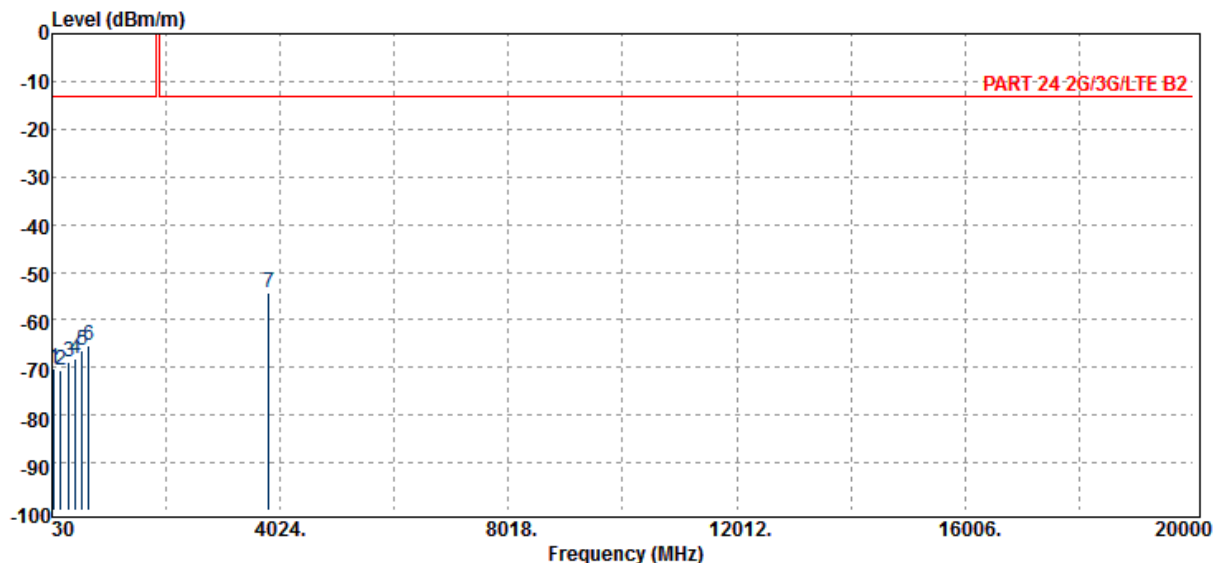
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Operation Band :GPRS 1900 Temp./Humi. :22 deg\_C / 61 RH  
Fundamental Frequency :1909.8 MHz Engineer :Tin  
Operation Mode :Tx CH HIGH  
EUT Pol. :H Plane Measurement Pol. Antenna :VERTICAL



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -54.44          | -60.25                    | 12.47                      | -6.65               | -13.00       | -41.44       |

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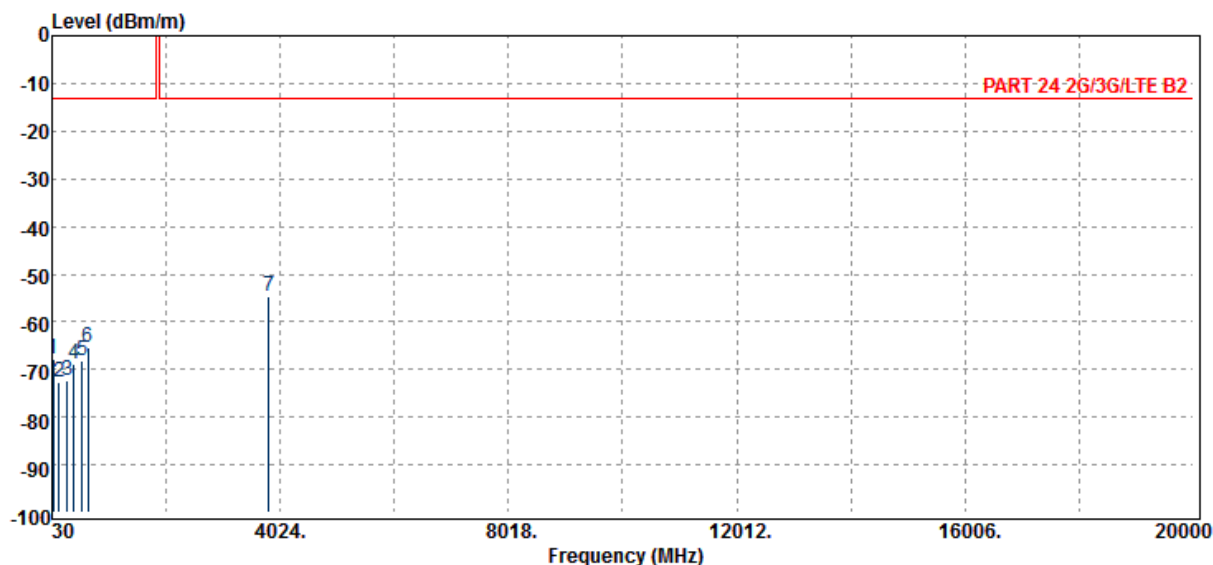
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :GPRS 1900  | Temp./Humi.      | :22 deg_C / 61 RH   |
| Fundamental Frequency | :1909.8 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -54.57          | -60.39                    | 12.47                      | -6.65               | -13.00       | -41.57       |

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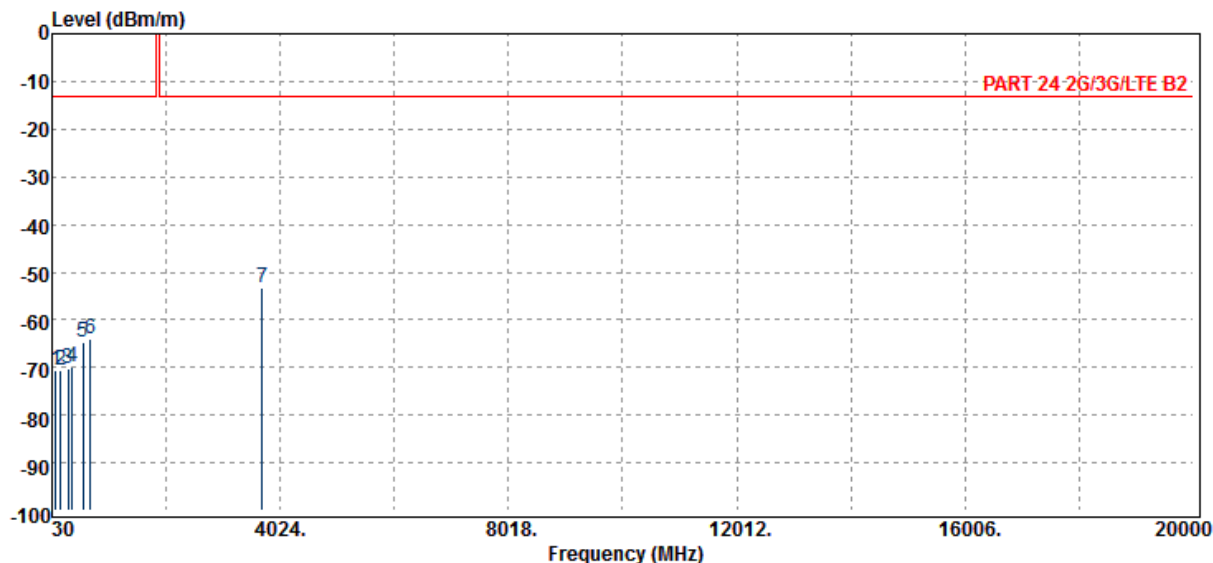
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## Radiated Spurious Emission Measurement Result: HSDPA Band 2 Mode

Operation Band :HSDPA B2 Temp./Humi. :22 deg\_C / 61 RH  
Fundamental Frequency :1852.4 MHz Engineer :Tin  
Operation Mode :Tx CH LOW  
EUT Pol. :H Plane Measurement Pol. Antenna :VERTICAL



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -53.41          | -59.27                    | 12.44                      | -6.58               | -13.00       | -40.41       |

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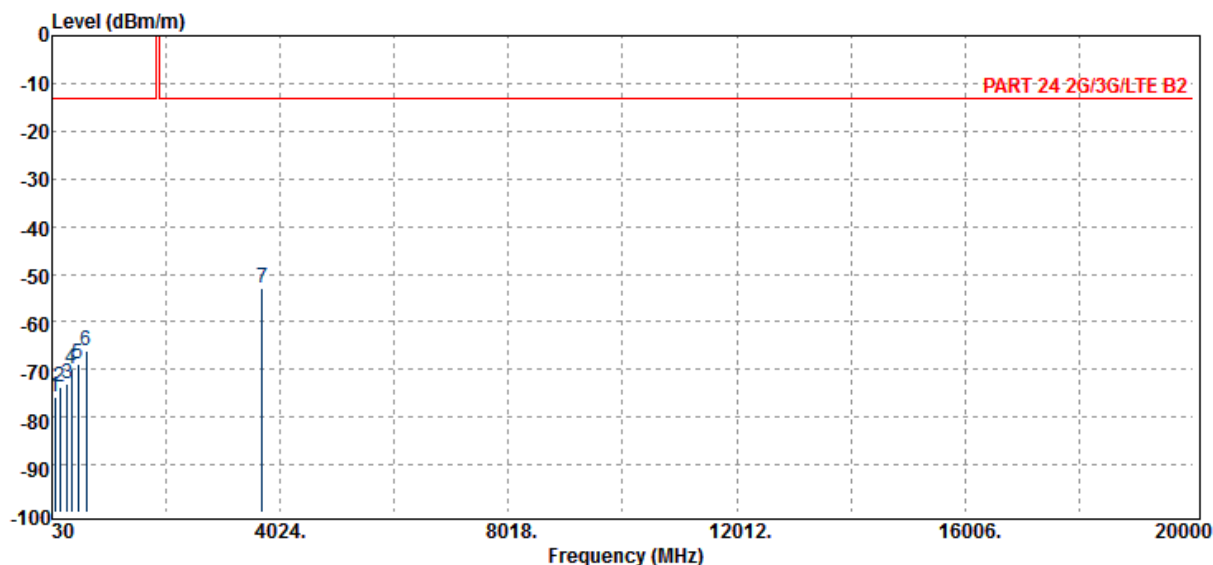
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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :HSDPA B2   | Temp./Humi.              | :22 deg_C / 61 RH |
| Fundamental Frequency | :1852.4 MHz | Engineer                 | :Tin              |
| Operation Mode        | :Tx CH LOW  |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -53.06          | -58.92                    | 12.44                      | -6.58               | -13.00       | -40.06       |

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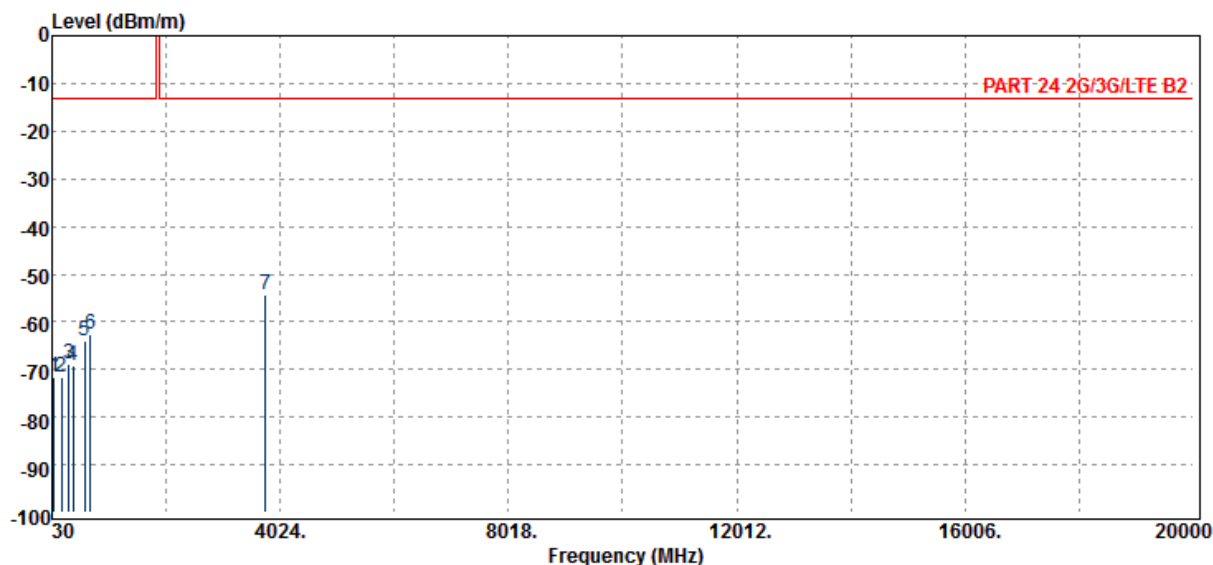
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|                       |            |                  |                   |
|-----------------------|------------|------------------|-------------------|
| Operation Band        | :HSDPA B2  | Temp./Humi.      | :22 deg_C / 61 RH |
| Fundamental Frequency | :1880 MHz  | Engineer         | :Tin              |
| Operation Mode        | :Tx CH MID |                  |                   |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna:VERTICAL  |



| Freq.   | Note    | ERP/EIRP | SG                  | Antenna         | Cable      | Limit  | Margin |
|---------|---------|----------|---------------------|-----------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm      | Output Level<br>dBm | Gain<br>dBd/dBi | Loss<br>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 | H       | -54.18   | -60.03              | 12.45           | -6.60      | -13.00 | -41.18 |

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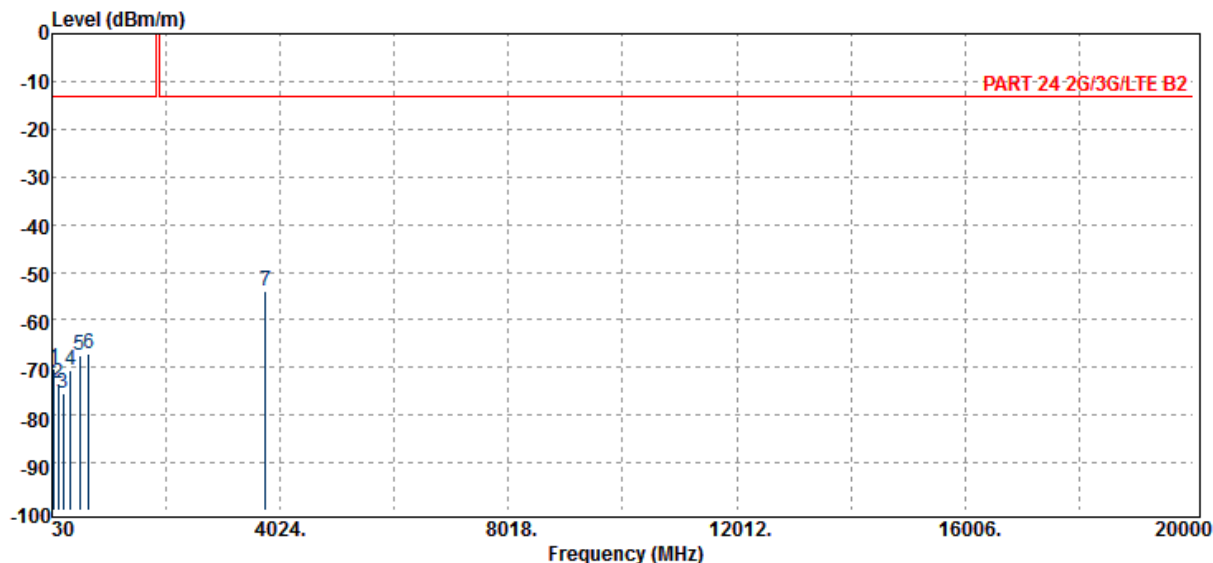
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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :HSDPA B2  | Temp./Humi.              | :22 deg_C / 61 RH |
| Fundamental Frequency | :1880 MHz  | Engineer                 | :Tin              |
| Operation Mode        | :Tx CH MID |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -53.89          | -59.74                    | 12.45                      | -6.60               | -13.00       | -40.89       |

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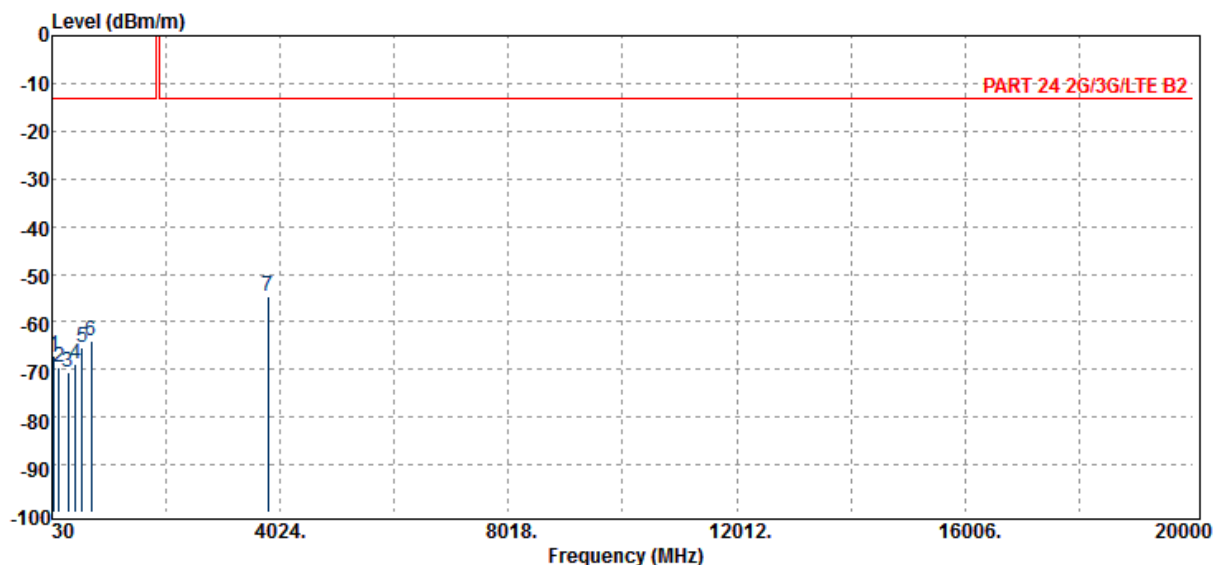
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|                       |             |                  |                   |
|-----------------------|-------------|------------------|-------------------|
| Operation Band        | :HSDPA B2   | Temp./Humi.      | :22 deg_C / 61 RH |
| Fundamental Frequency | :1907.6 MHz | Engineer         | :Tin              |
| Operation Mode        | :Tx CH HIGH |                  |                   |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna:VERTICAL  |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -54.53          | -60.36                    | 12.46                      | -6.63               | -13.00       | -41.53       |

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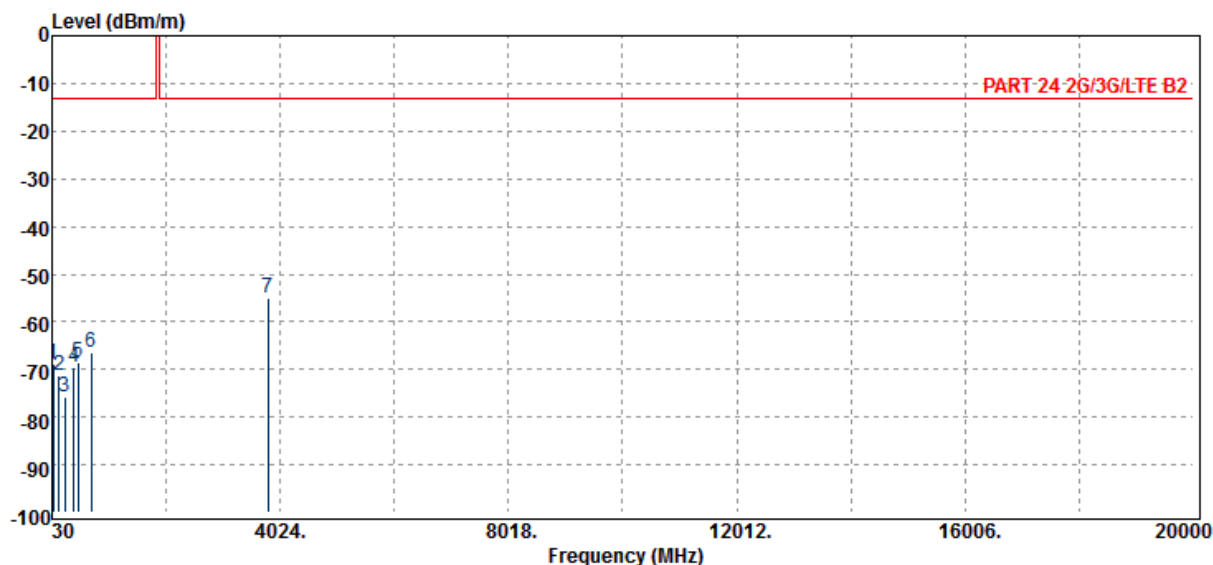
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :HSDPA B2   | Temp./Humi.      | :22 deg_C / 61 RH   |
| Fundamental Frequency | :1907.6 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -54.97          | -60.80                    | 12.46                      | -6.63               | -13.00       | -41.97       |

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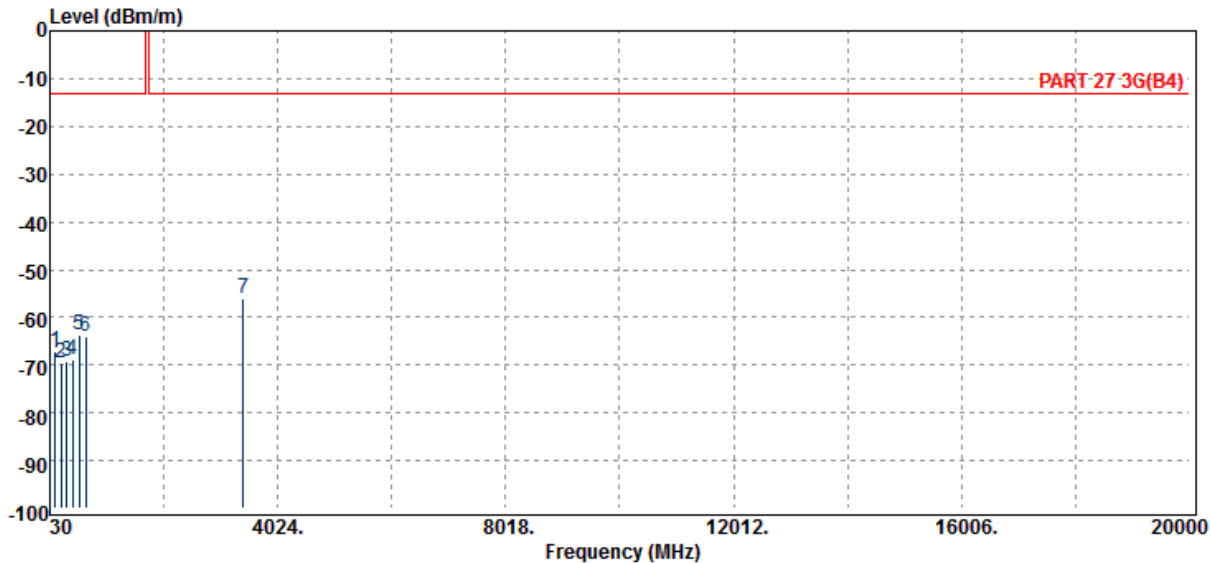
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## Radiated Spurious Emission Measurement Result: HSUPA Band 4 Mode

Operation Band :HSUPA B4 Temp./Humi. :22 deg\_C / 62 RH  
Fundamental Frequency :1712.4 MHz Engineer :Tin  
Operation Mode :Tx CH LOW  
EUT Pol. :H Plane Measurement Pol. Antenna :VERTICAL



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -56.21          | -62.25                    | 12.27                      | -6.23               | -13.00       | -43.21       |

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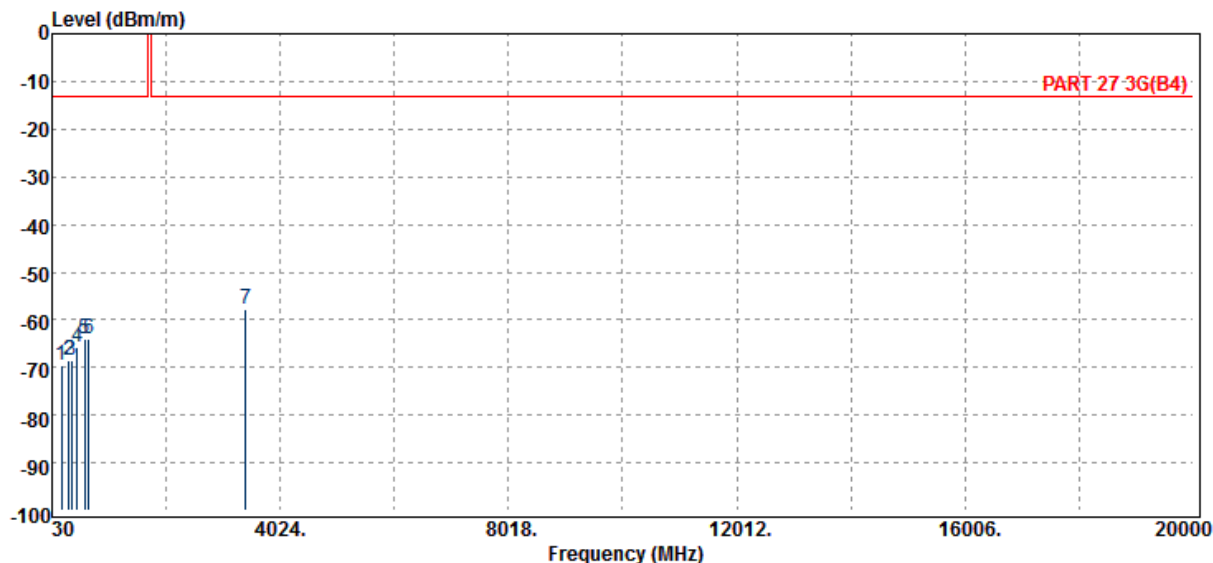
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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :HSUPA B4   | Temp./Humi.              | :22 deg_C / 62 RH |
| Fundamental Frequency | :1712.4 MHz | Engineer                 | :Tin              |
| Operation Mode        | :Tx CH LOW  |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -57.93          | -63.97                    | 12.27                      | -6.23               | -13.00       | -44.93       |

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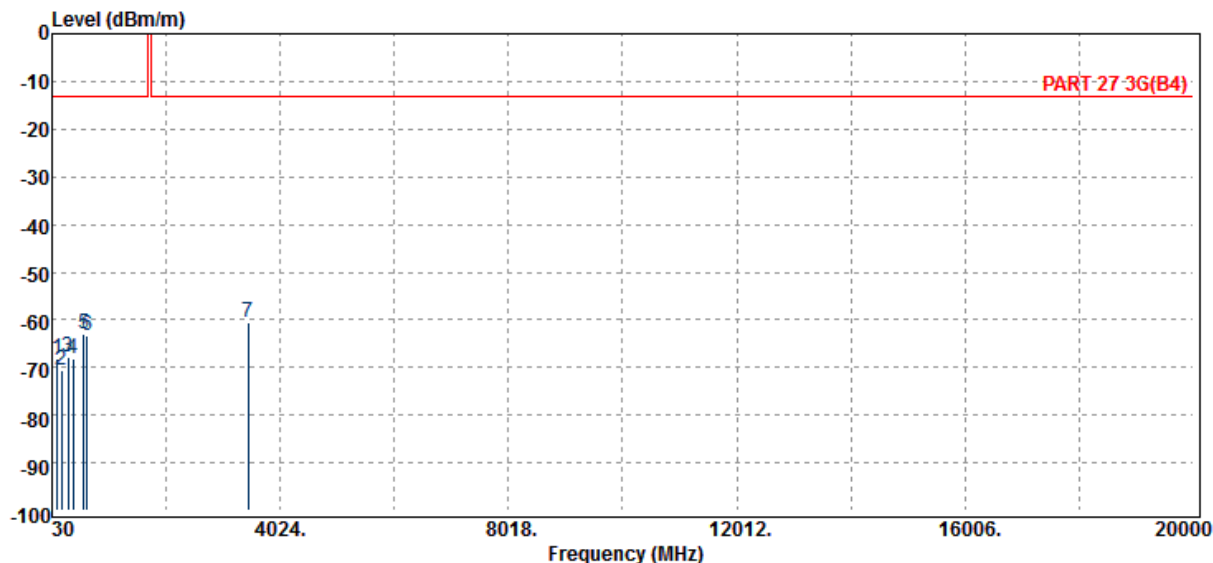
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|                       |             |                  |                   |
|-----------------------|-------------|------------------|-------------------|
| Operation Band        | :HSUPA B4   | Temp./Humi.      | :22 deg_C / 62 RH |
| Fundamental Frequency | :1732.6 MHz | Engineer         | :Tin              |
| Operation Mode        | :Tx CH MID  |                  |                   |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna:VERTICAL  |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -60.56          | -66.65                    | 12.34                      | -6.25               | -13.00       | -47.56       |

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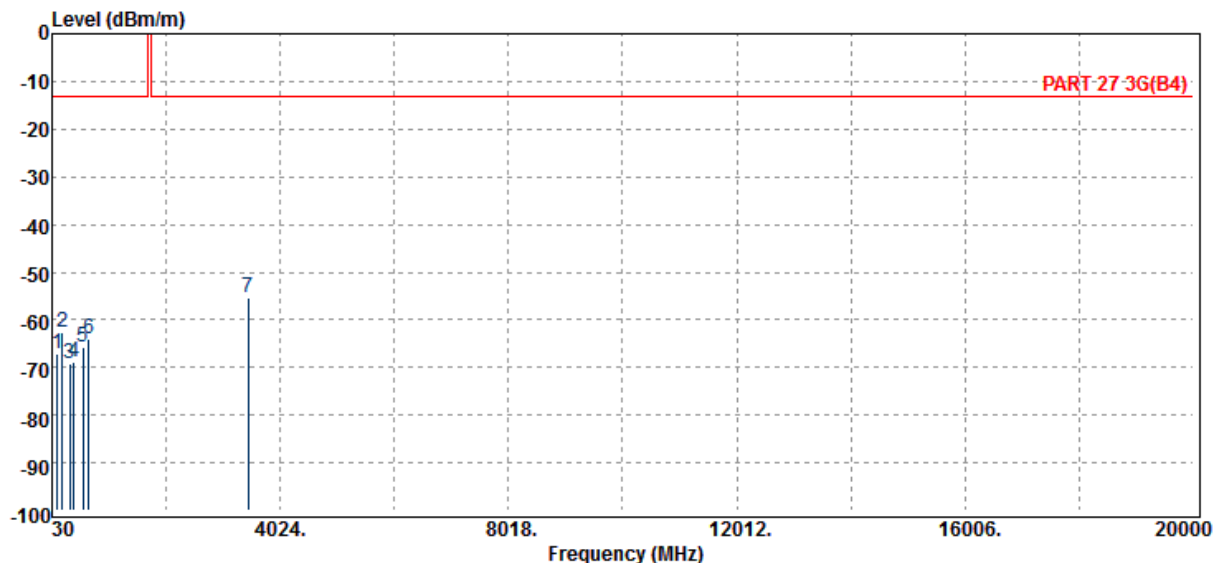
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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :HSUPA B4   | Temp./Humi.              | :22 deg_C / 62 RH |
| Fundamental Frequency | :1732.6 MHz | Engineer                 | :Tin              |
| Operation Mode        | :Tx CH MID  |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -55.34          | -61.44                    | 12.34                      | -6.25               | -13.00       | -42.34       |

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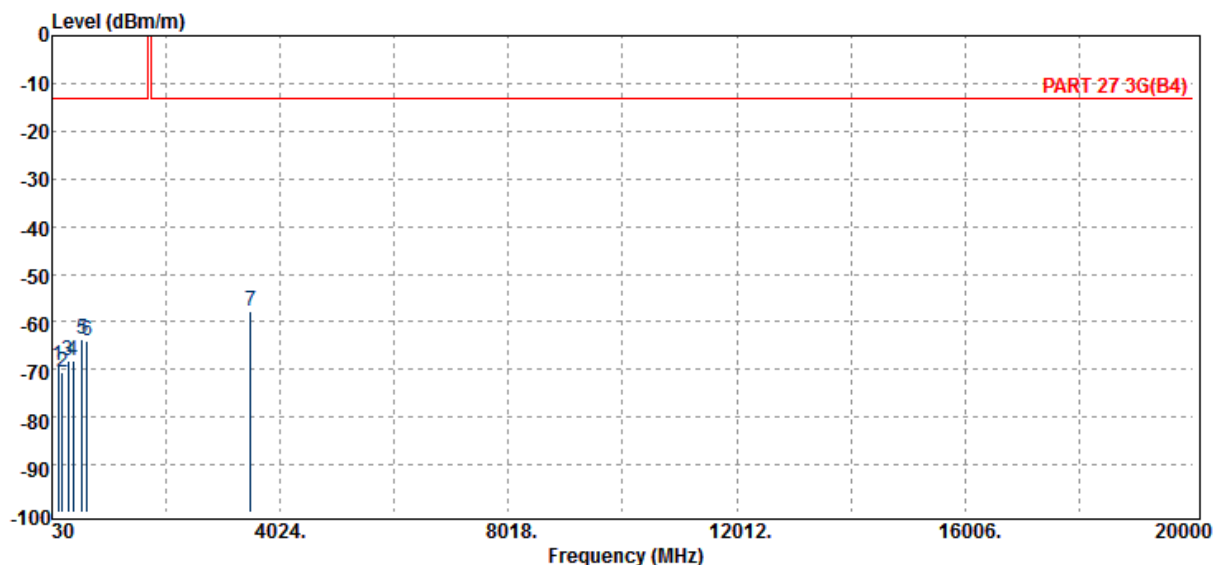
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|                       |             |                  |                   |
|-----------------------|-------------|------------------|-------------------|
| Operation Band        | :HSUPA B4   | Temp./Humi.      | :22 deg_C / 62 RH |
| Fundamental Frequency | :1752.6 MHz | Engineer         | :Tin              |
| Operation Mode        | :Tx CH HIGH |                  |                   |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna:VERTICAL  |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -57.82          | -63.76                    | 12.40                      | -6.47               | -13.00       | -44.82       |

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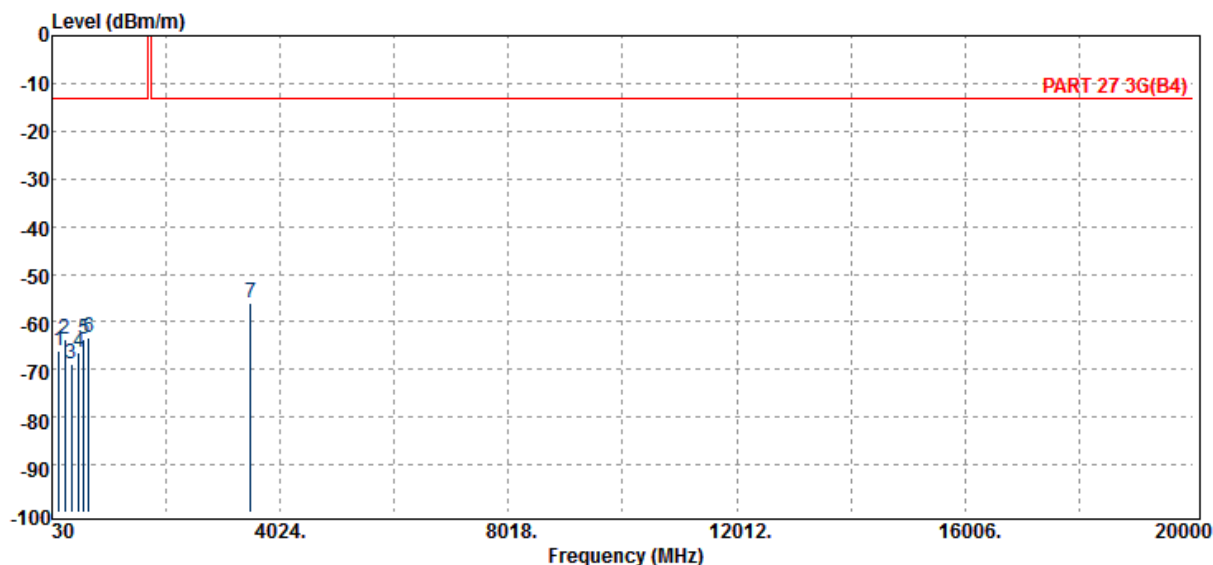
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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :HSUPA B4   | Temp./Humi.              | :22 deg_C / 62 RH |
| Fundamental Frequency | :1752.6 MHz | Engineer                 | :Tin              |
| Operation Mode        | :Tx CH HIGH |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -56.00          | -61.93                    | 12.40                      | -6.47               | -13.00       | -43.00       |

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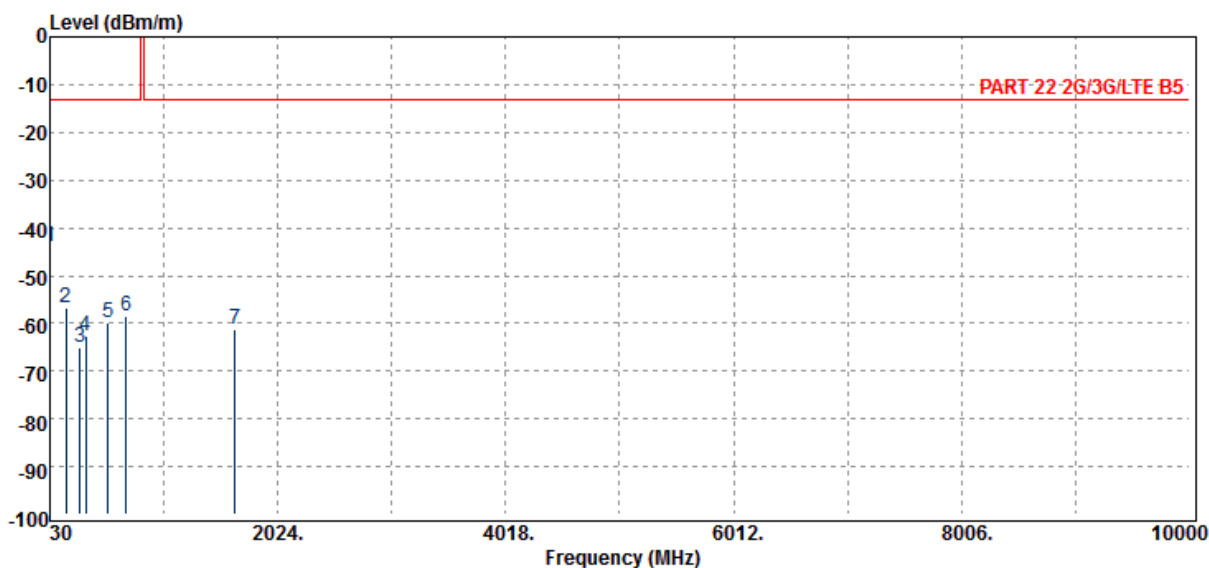
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## Radiated Spurious Emission Measurement Result: HSUPA Band 5 Mode

|                       |            |                  |                   |
|-----------------------|------------|------------------|-------------------|
| Operation Band        | :HSDPA B5  | Temp./Humi.      | :24 deg_C / 61 RH |
| Fundamental Frequency | :826.4 MHz | Engineer         | :Tin              |
| Operation Mode        | :Tx CH LOW |                  |                   |
| EUT Pol.              | :E2 Plane  | Measurement Pol. | Antenna :VERTICAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -61.85          | -64.48                    | 6.99                       | -4.36               | -13.00       | -48.85       |

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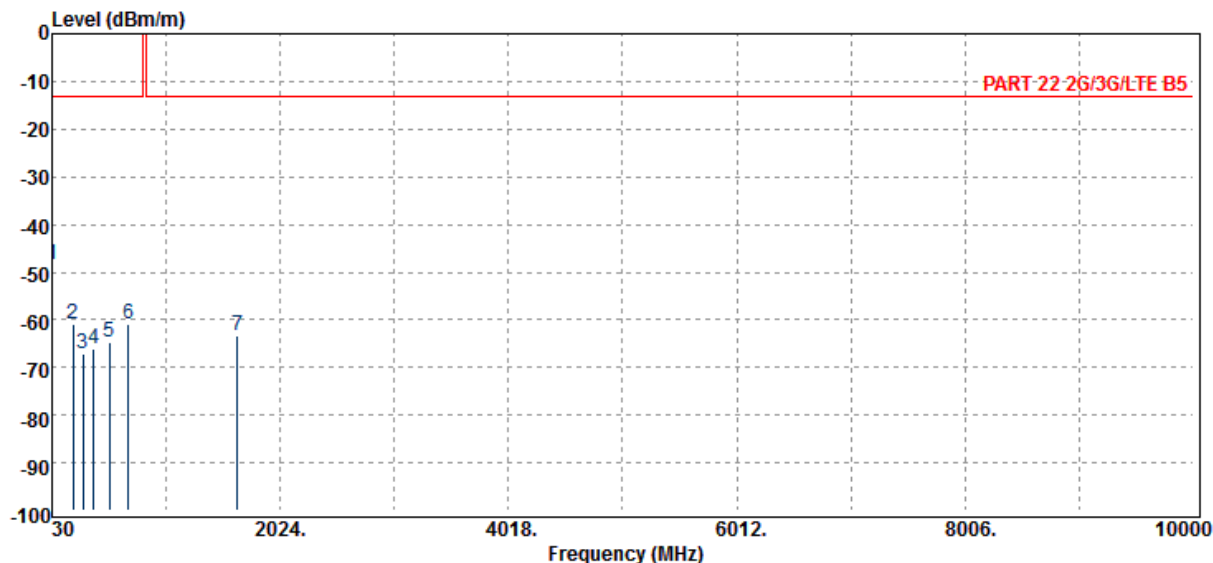
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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :HSDPA B5  | Temp./Humi.              | :24 deg_C / 61 RH |
| Fundamental Frequency | :826.4 MHz | Engineer                 | :Tin              |
| Operation Mode        | :Tx CH LOW |                          |                   |
| EUT Pol.              | :E2 Plane  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -63.52          | -66.15                    | 6.99                       | -4.36               | -13.00       | -50.52       |

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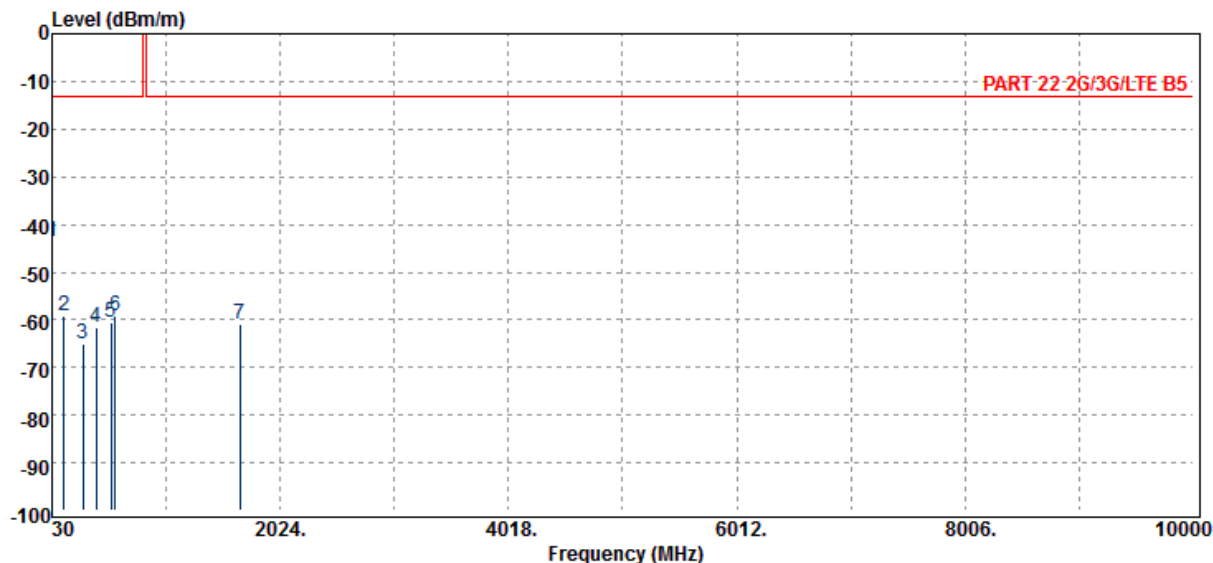
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|                       |            |                  |                   |
|-----------------------|------------|------------------|-------------------|
| Operation Band        | :HSDPA B5  | Temp./Humi.      | :24 deg_C / 61 RH |
| Fundamental Frequency | :836.6 MHz | Engineer         | :Tin              |
| Operation Mode        | :Tx CH MID |                  |                   |
| EUT Pol.              | :E2 Plane  | Measurement Pol. | Antenna:VERTICAL  |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -61.19          | -63.86                    | 7.06                       | -4.39               | -13.00       | -48.19       |

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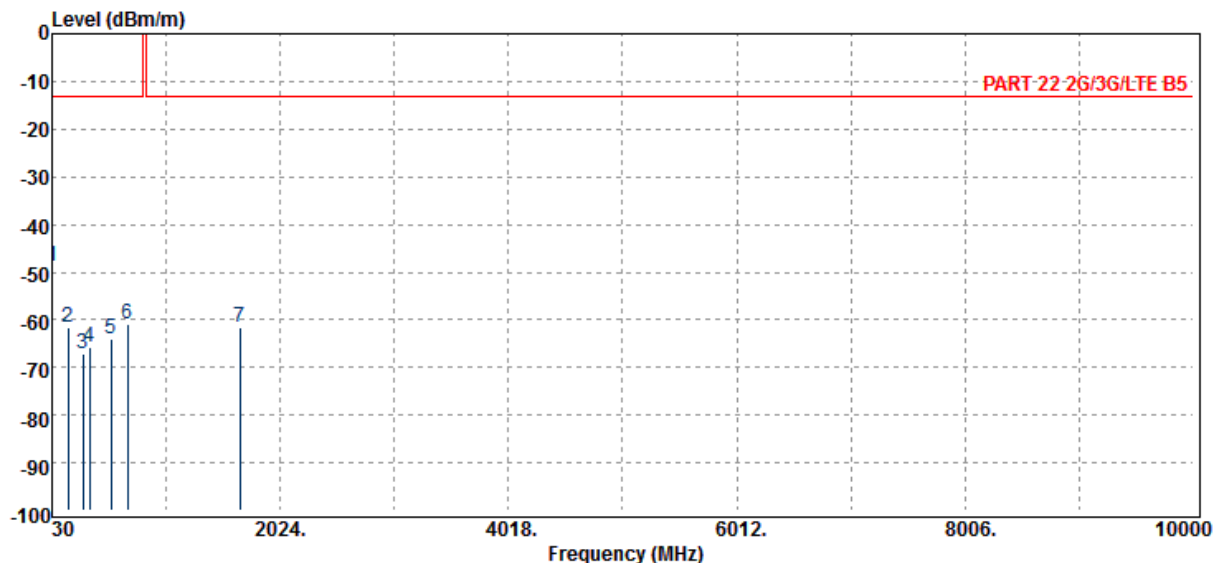
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :HSDPA B5  | Temp./Humi.      | :24 deg_C / 61 RH   |
| Fundamental Frequency | :836.6 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :E2 Plane  | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -61.56          | -64.23                    | 7.06                       | -4.39               | -13.00       | -48.56       |

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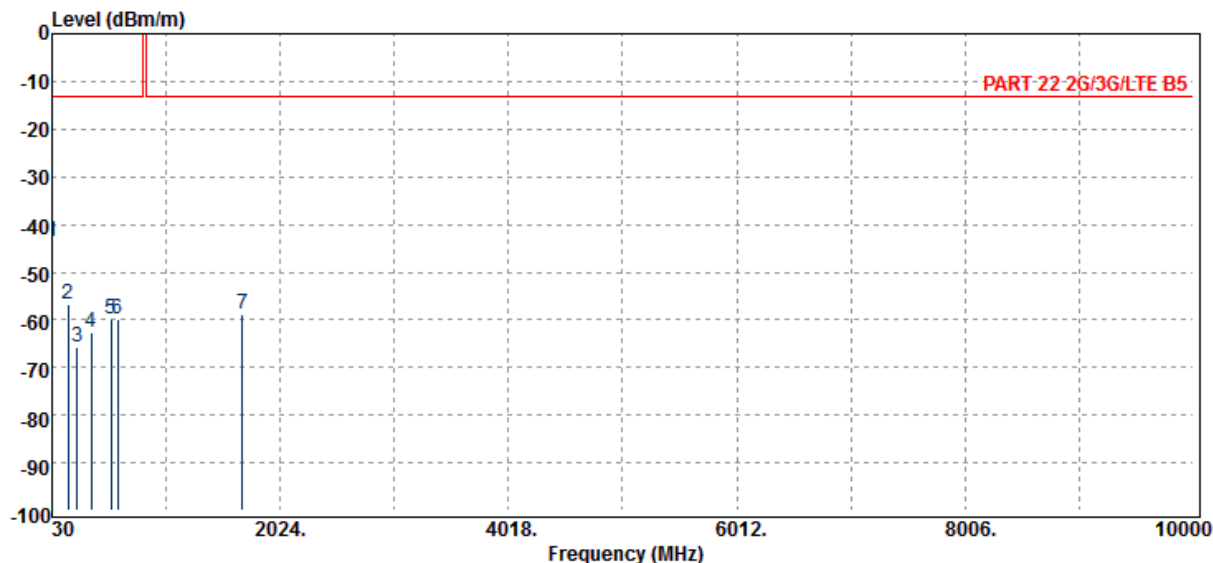
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|                       |             |                  |                   |
|-----------------------|-------------|------------------|-------------------|
| Operation Band        | :HSDPA B5   | Temp./Humi.      | :24 deg_C / 61 RH |
| Fundamental Frequency | :846.6 MHz  | Engineer         | :Tin              |
| Operation Mode        | :Tx CH HIGH |                  |                   |
| EUT Pol.              | :E2 Plane   | Measurement Pol. | Antenna:VERTICAL  |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -59.05          | -61.74                    | 7.12                       | -4.43               | -13.00       | -46.05       |

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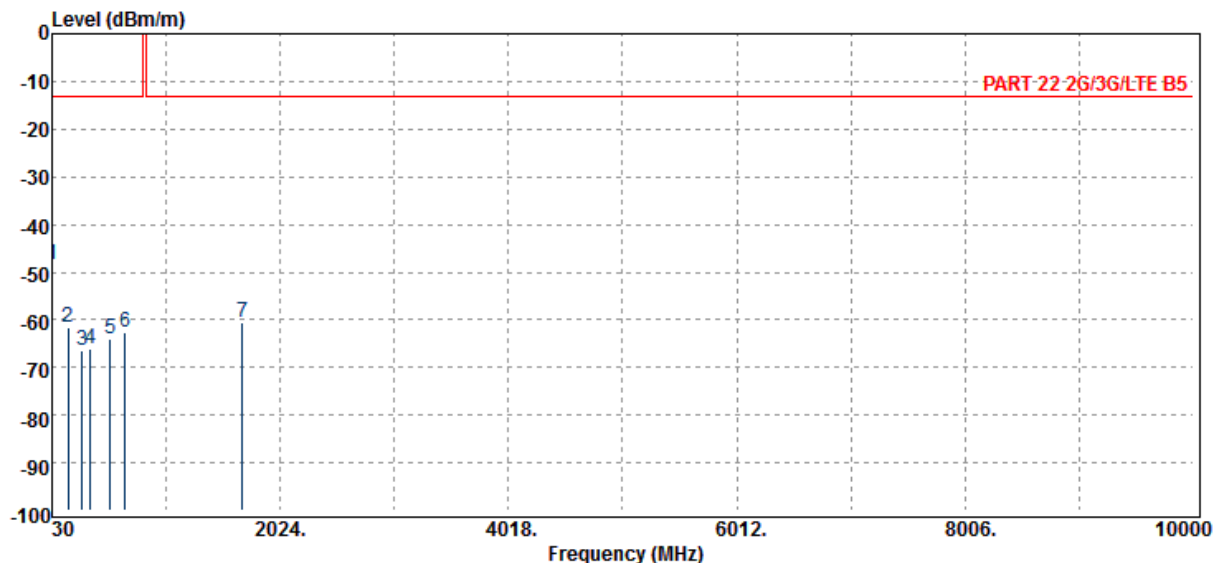
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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :HSUPA B5   | Temp./Humi.              | :24 deg_C / 61 RH |
| Fundamental Frequency | :846.6 MHz  | Engineer                 | :Tin              |
| Operation Mode        | :Tx CH HIGH |                          |                   |
| EUT Pol.              | :E2 Plane   | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -60.97          | -63.66                    | 7.12                       | -4.43               | -13.00       | -47.97       |

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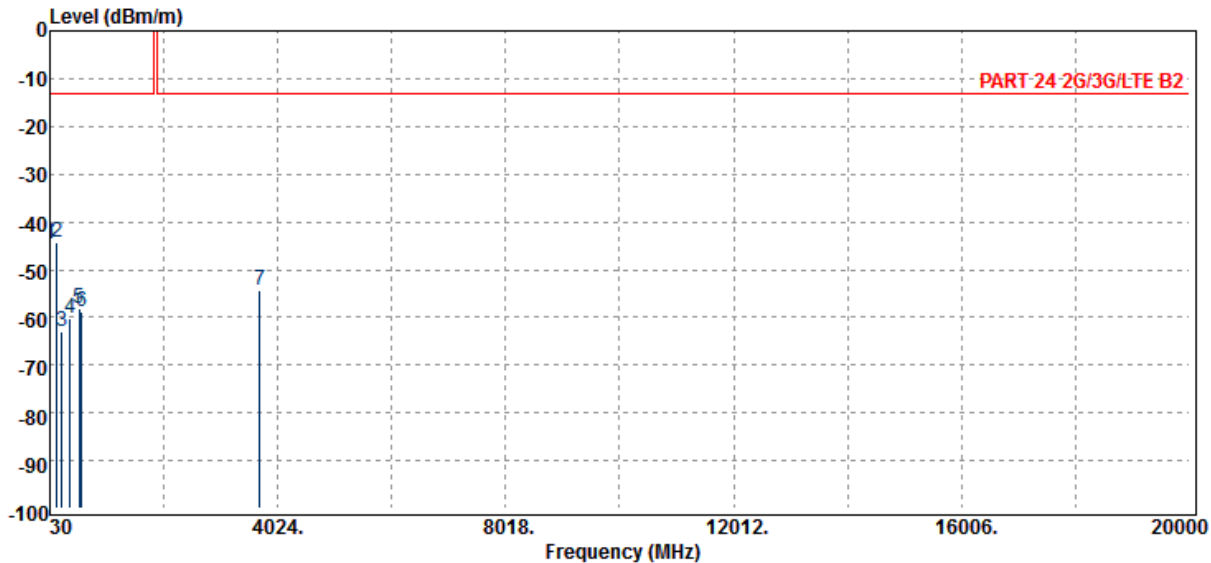
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## Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B2     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1852.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW  |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :VERTICAL   |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -54.36          | -60.03                    | 12.57                      | -6.90               | -13.00       | -41.36       |

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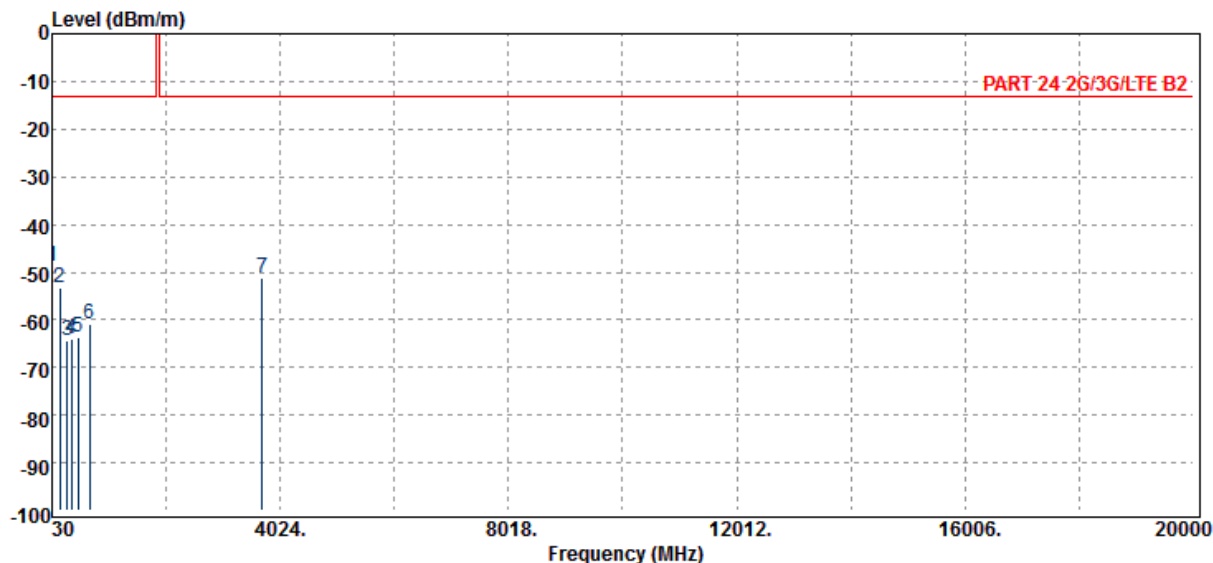
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B2     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1852.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW  |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -51.09          | -56.75                    | 12.57                      | -6.90               | -13.00       | -38.09       |

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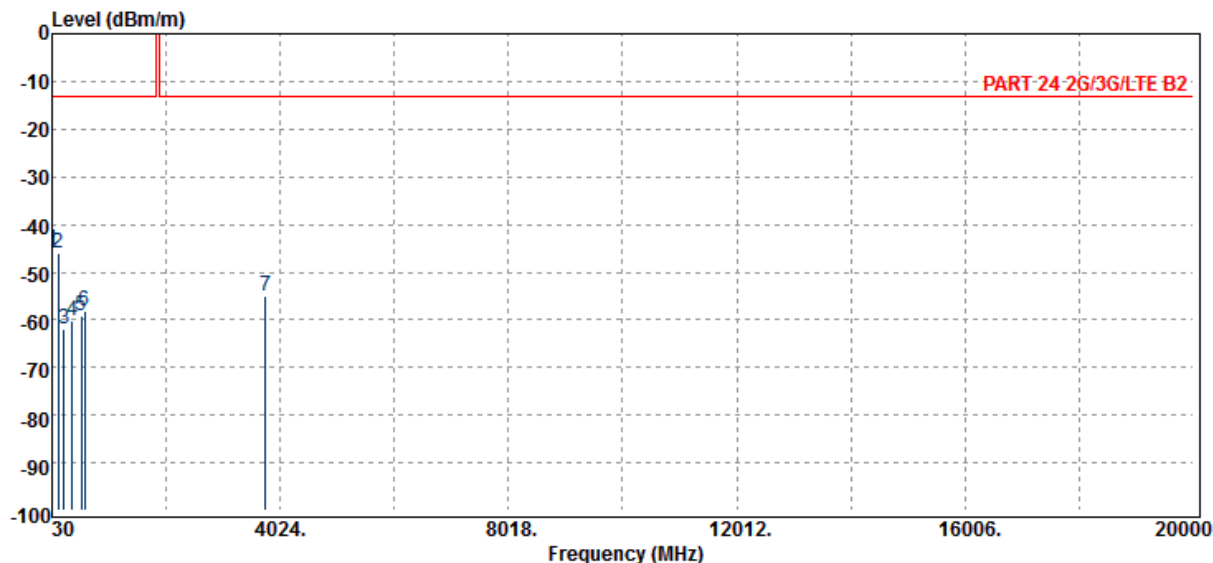
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B2    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1880 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna:VERTICAL    |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -54.86          | -60.59                    | 12.61                      | -6.89               | -13.00       | -41.86       |

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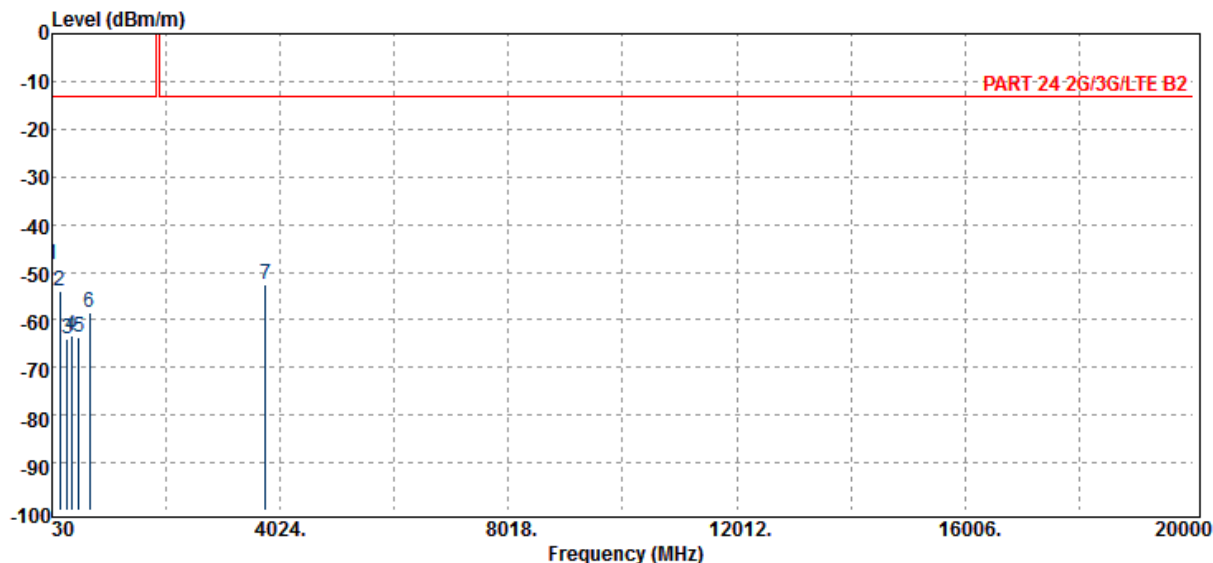
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B2    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1880 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -52.70          | -58.43                    | 12.61                      | -6.89               | -13.00       | -39.70       |

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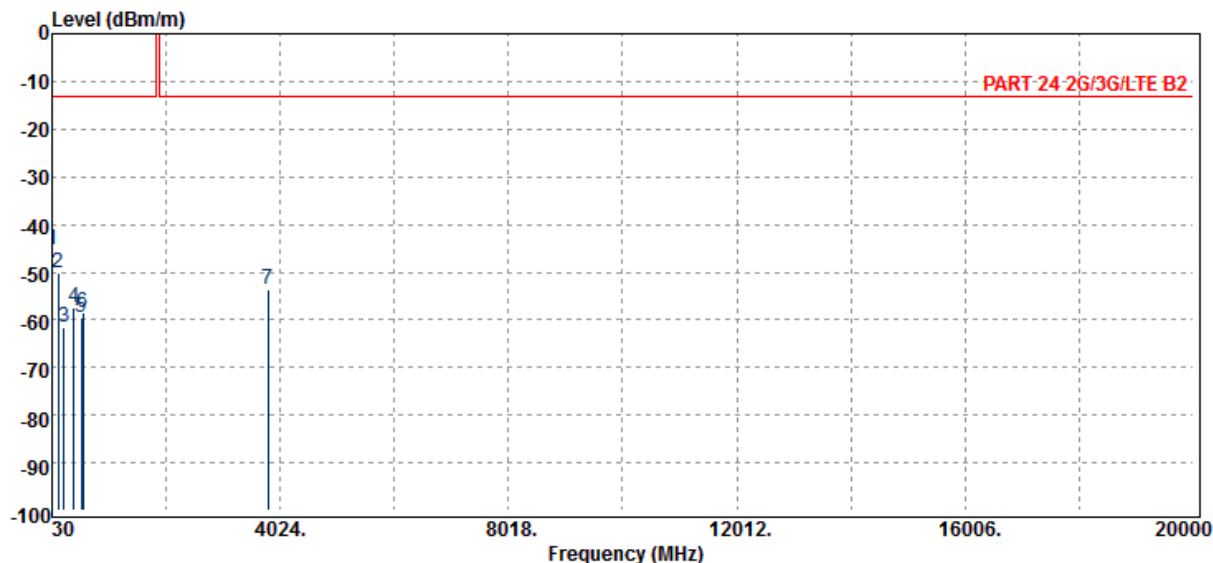
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B2     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1907.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna:VERTICAL    |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -53.78          | -59.43                    | 12.66                      | -7.00               | -13.00       | -40.78       |

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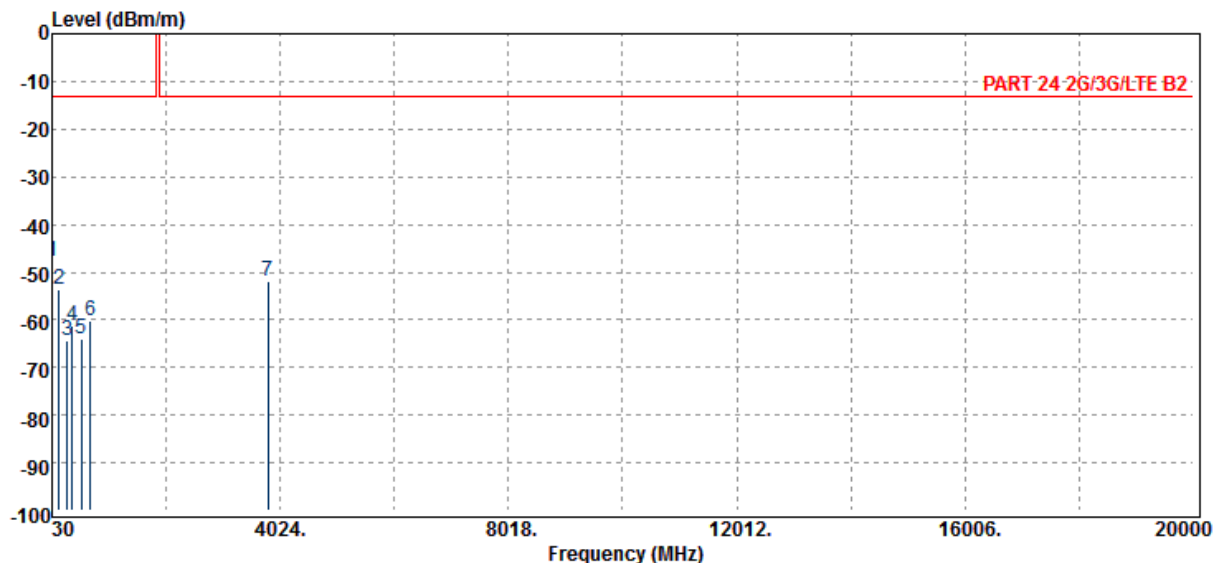
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B2     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1907.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -51.87          | -57.53                    | 12.66                      | -7.00               | -13.00       | -38.87       |

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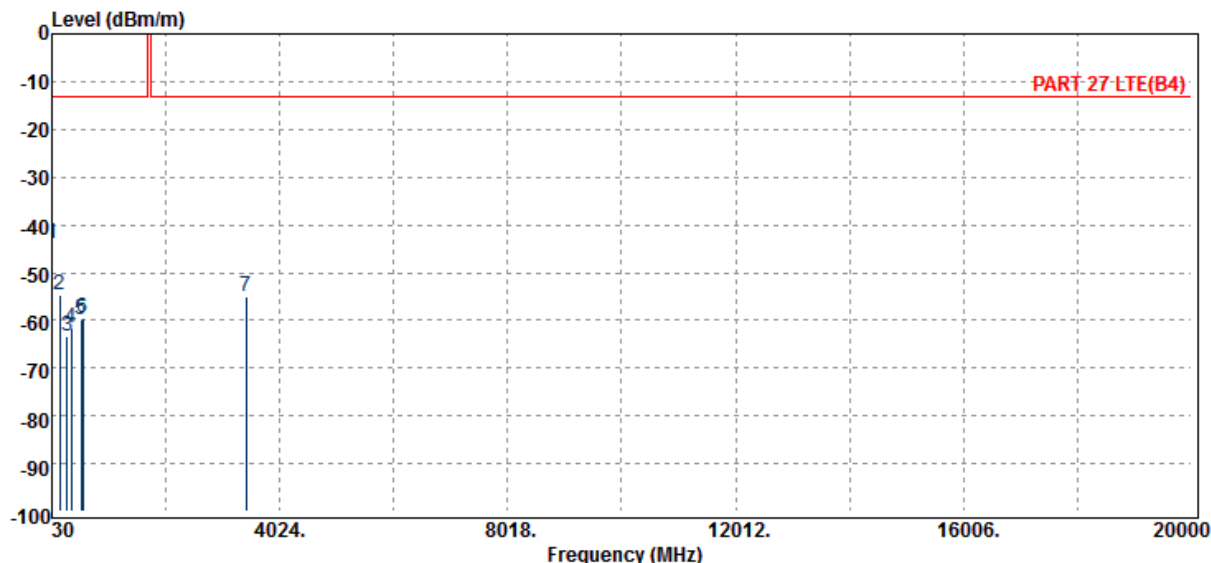
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## Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B4     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1717.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW  |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :VERTICAL   |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -55.17          | -60.88                    | 12.25                      | -6.55               | -13.00       | -42.17       |

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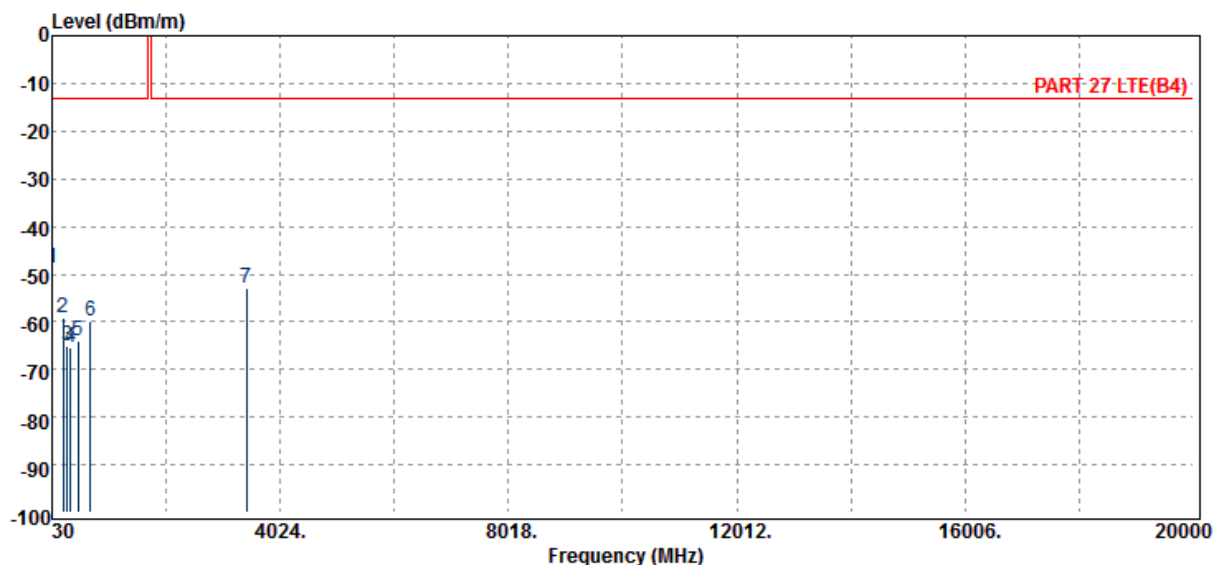
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|                       |             |                          |                     |
|-----------------------|-------------|--------------------------|---------------------|
| Operation Band        | :LTE B4     | Temp./Humi.              | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1717.5 MHz | Engineer                 | :Tin                |
| Operation Mode        | :Tx CH LOW  |                          |                     |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :HORIZONTAL         |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -52.90          | -58.60                    | 12.25                      | -6.55               | -13.00       | -39.90       |

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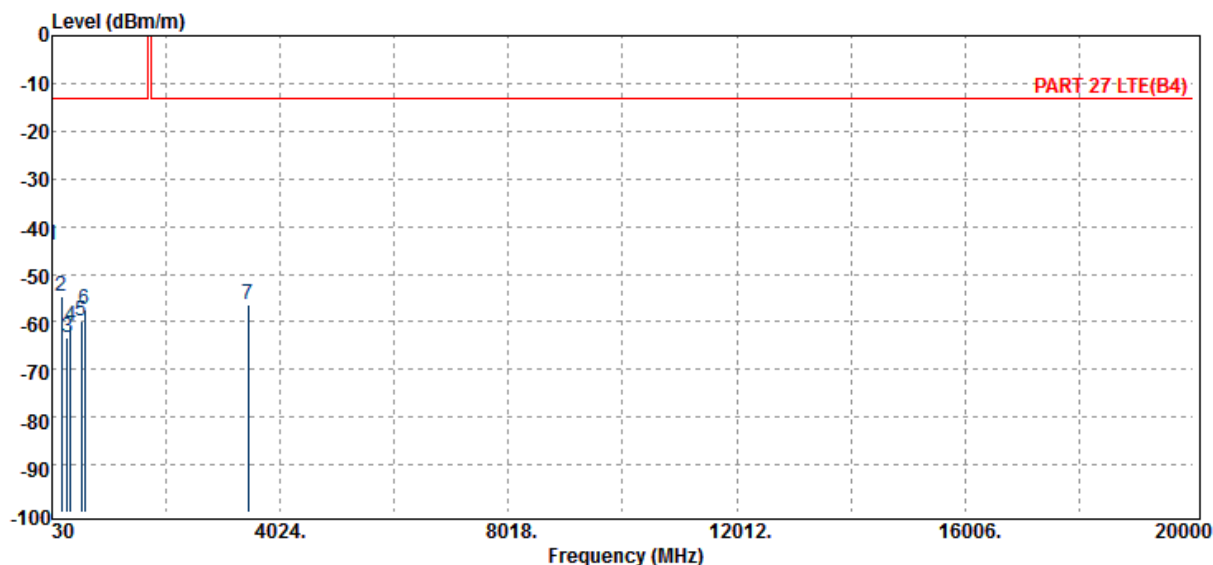
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B4     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1732.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID  |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :VERTICAL   |



| Freq.   | Note    | ERP/EIRP | SG                  | Antenna         | Cable      | Limit  | Margin |
|---------|---------|----------|---------------------|-----------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm      | Output Level<br>dBm | Gain<br>dBd/dBi | Loss<br>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 | H       | -56.36   | -62.12              | 12.32           | -6.56      | -13.00 | -43.36 |

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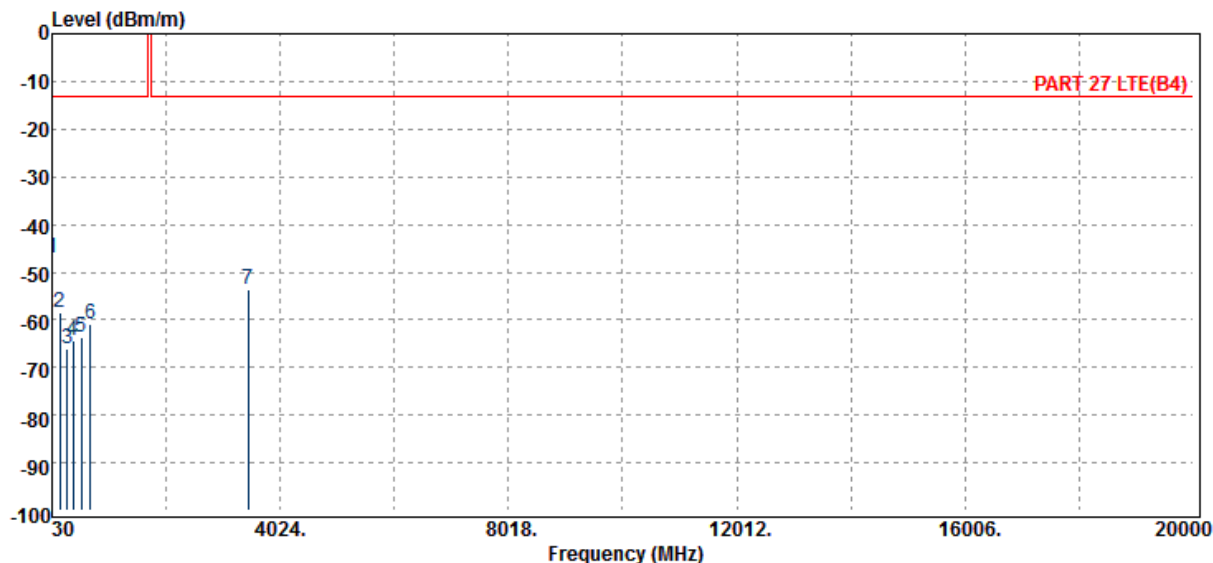
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B4     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1732.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID  |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -53.61          | -59.38                    | 12.32                      | -6.56               | -13.00       | -40.61       |

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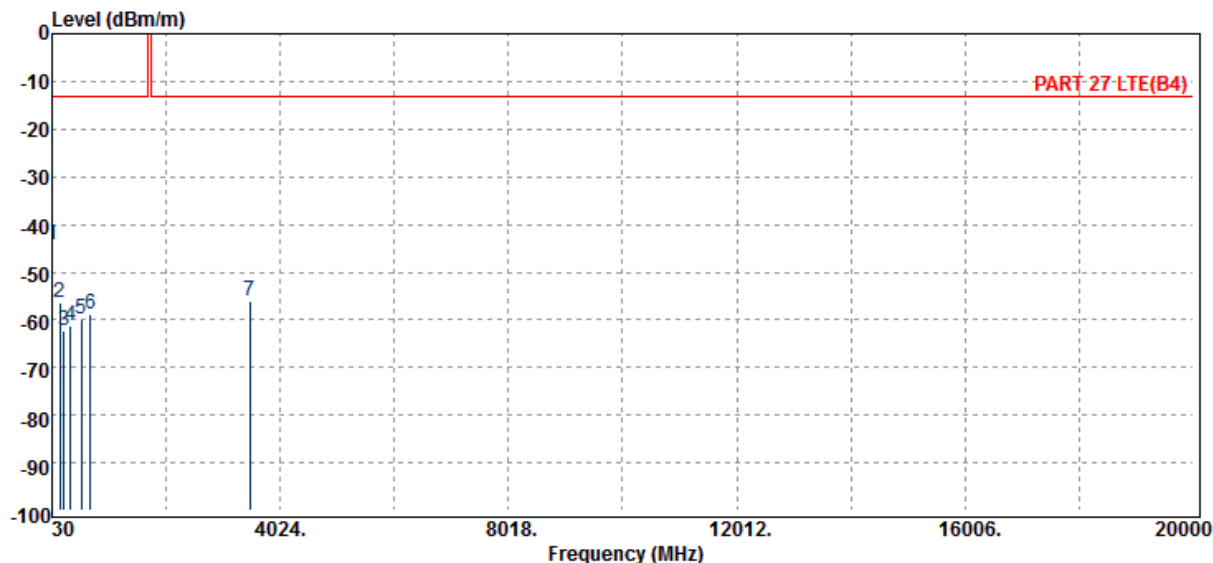
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B4     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1747.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna:VERTICAL    |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -55.99          | -61.77                    | 12.39                      | -6.61               | -13.00       | -42.99       |

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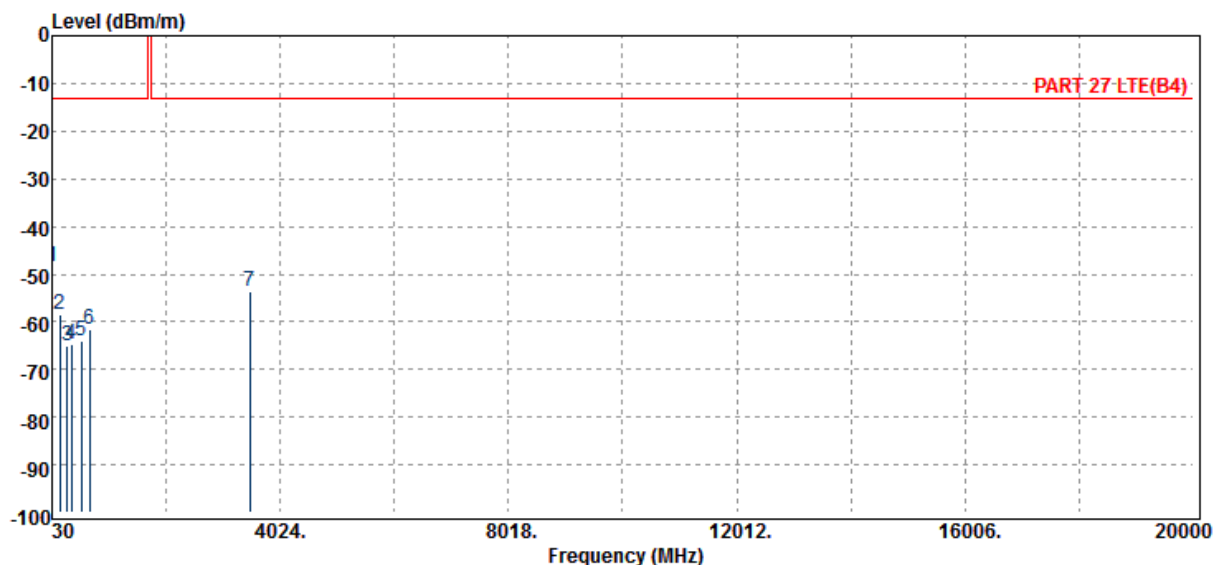
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B4     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1747.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -53.57          | -59.35                    | 12.39                      | -6.61               | -13.00       | -40.57       |

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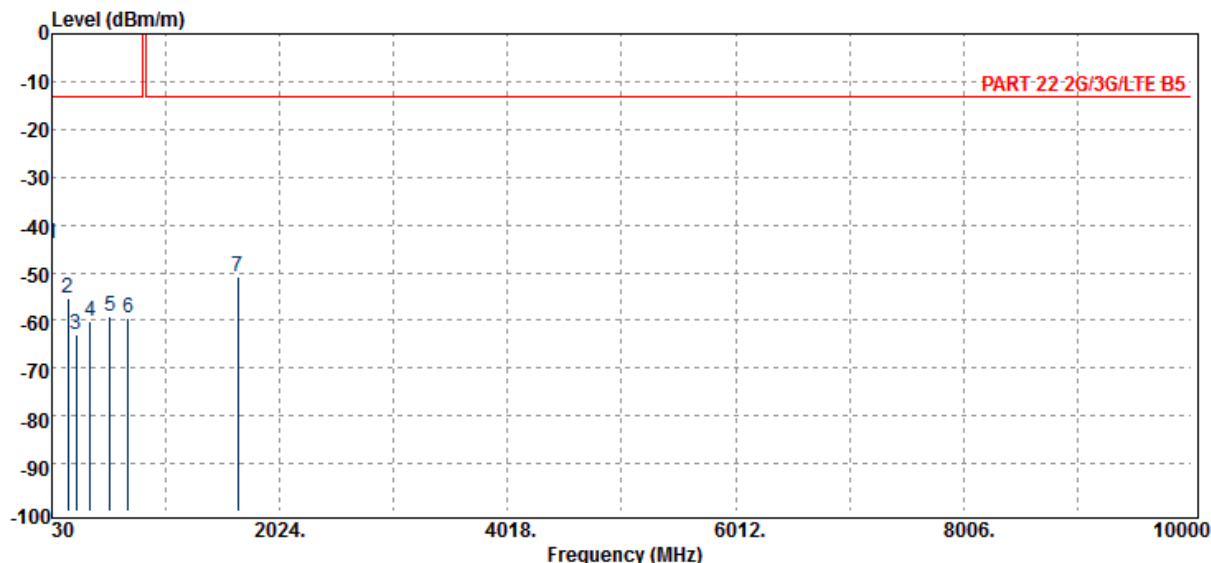
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## Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B5    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :829 MHz   | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :VERTICAL   |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -51.04          | -55.83                    | 9.16                       | -4.37               | -13.00       | -38.04       |

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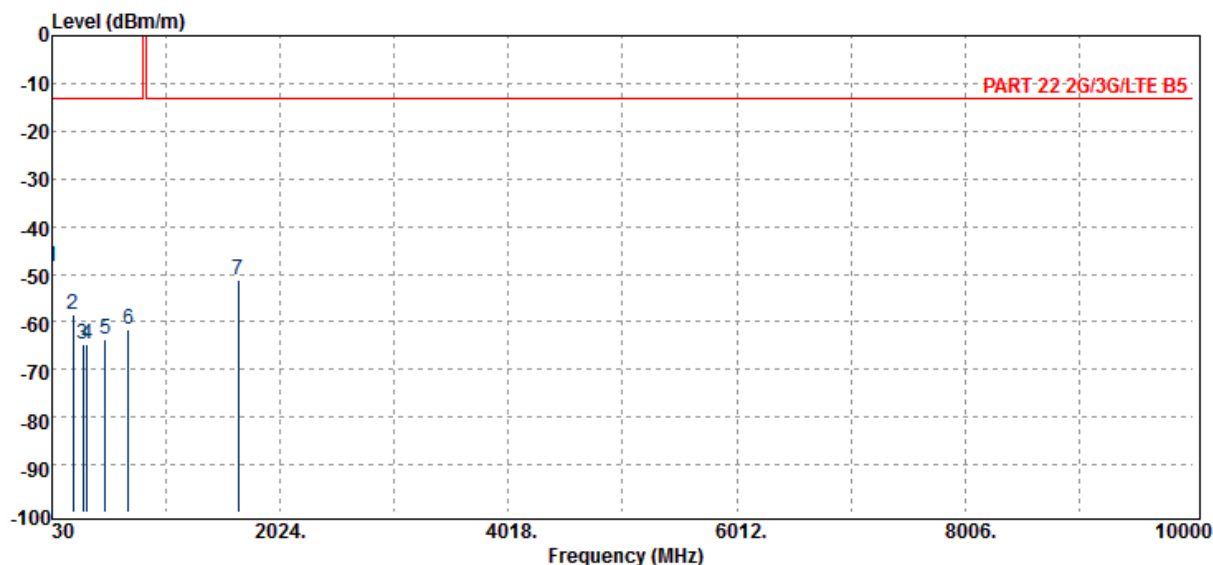
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|                       |            |                          |                     |
|-----------------------|------------|--------------------------|---------------------|
| Operation Band        | :LTE B5    | Temp./Humi.              | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :829 MHz   | Engineer                 | :Tin                |
| Operation Mode        | :Tx CH LOW |                          |                     |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :HORIZONTAL         |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -51.37          | -56.16                    | 9.16                       | -4.37               | -13.00       | -38.37       |

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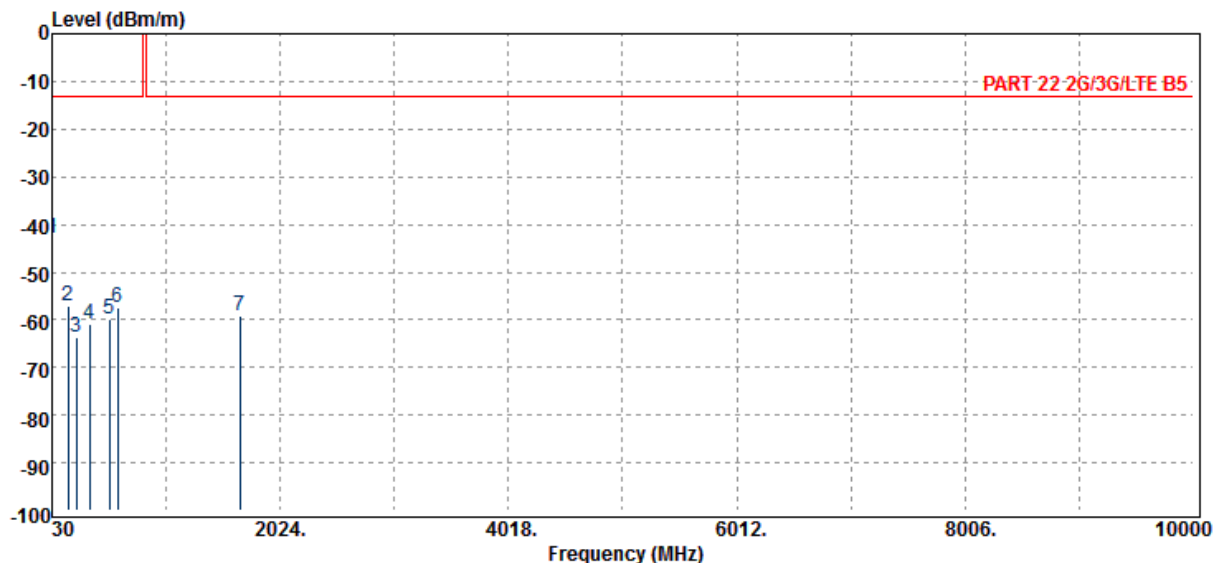
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B5    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :836.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna:VERTICAL    |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -59.24          | -64.06                    | 9.21                       | -4.39               | -13.00       | -46.24       |

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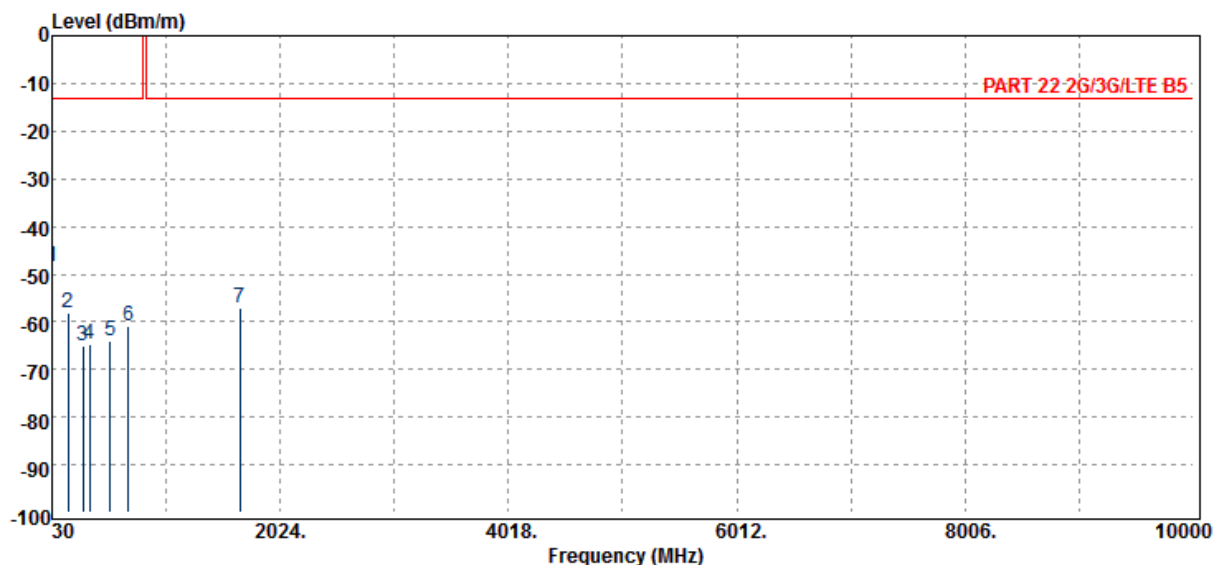
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B5    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :836.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -57.12          | -61.94                    | 9.21                       | -4.39               | -13.00       | -44.12       |

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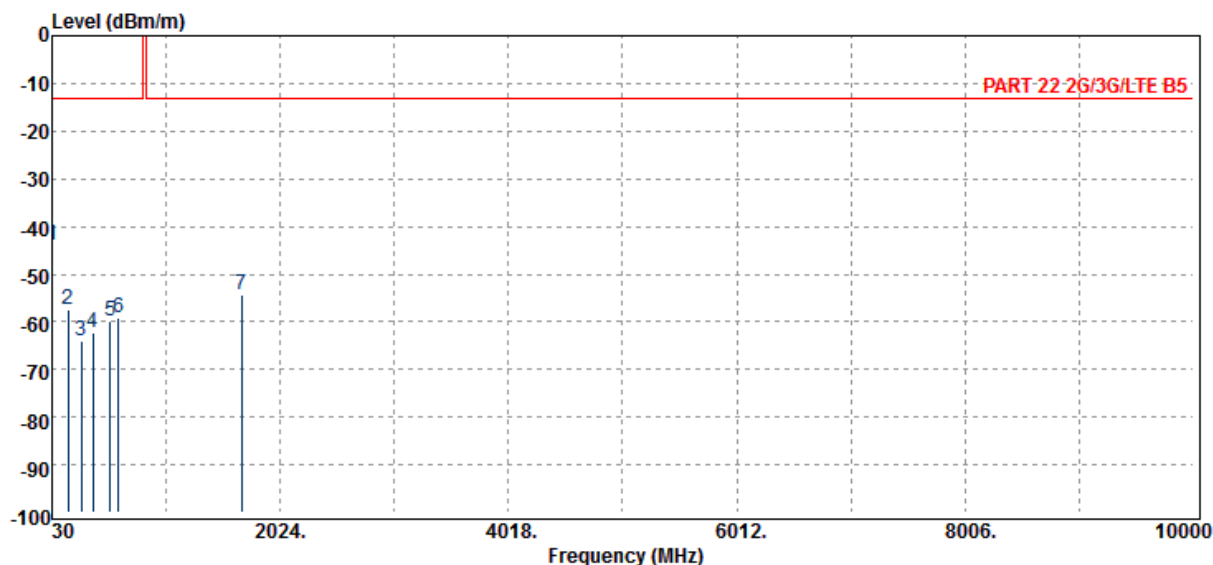
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B5     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :844 MHz    | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :VERTICAL   |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -54.39          | -57.07                    | 7.11                       | -4.42               | -13.00       | -41.39       |

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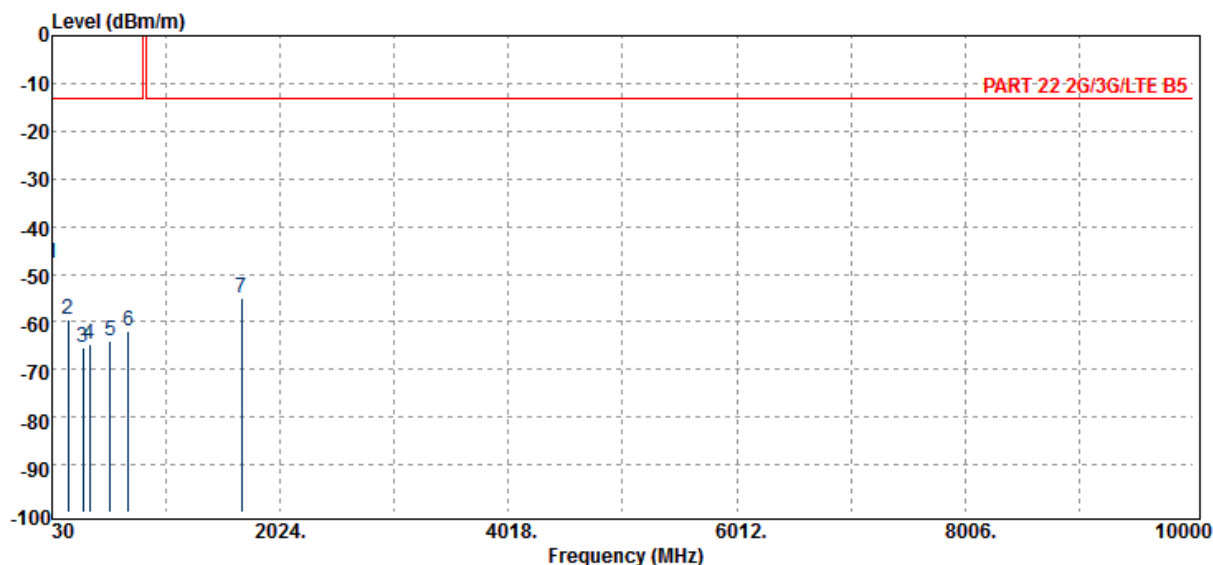
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B5     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :844 MHz    | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -55.16          | -57.85                    | 7.11                       | -4.42               | -13.00       | -42.16       |

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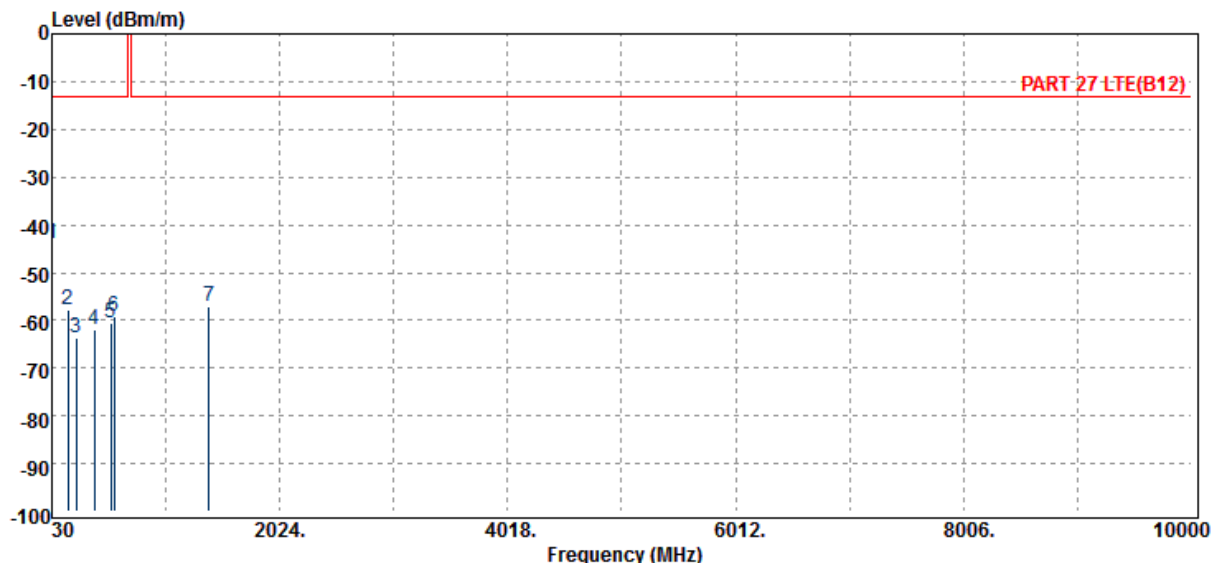
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## Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Band :LTE B12 Temp./Humi. :24.1 deg\_C / 65 RH  
Fundamental Frequency :701.5 MHz Engineer :Tin  
Operation Mode :Tx CH LOW  
EUT Pol. :H Plane Measurement Pol. Antenna :VERTICAL



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -57.04          | -61.26                    | 8.20                       | -3.99               | -13.00       | -44.04       |

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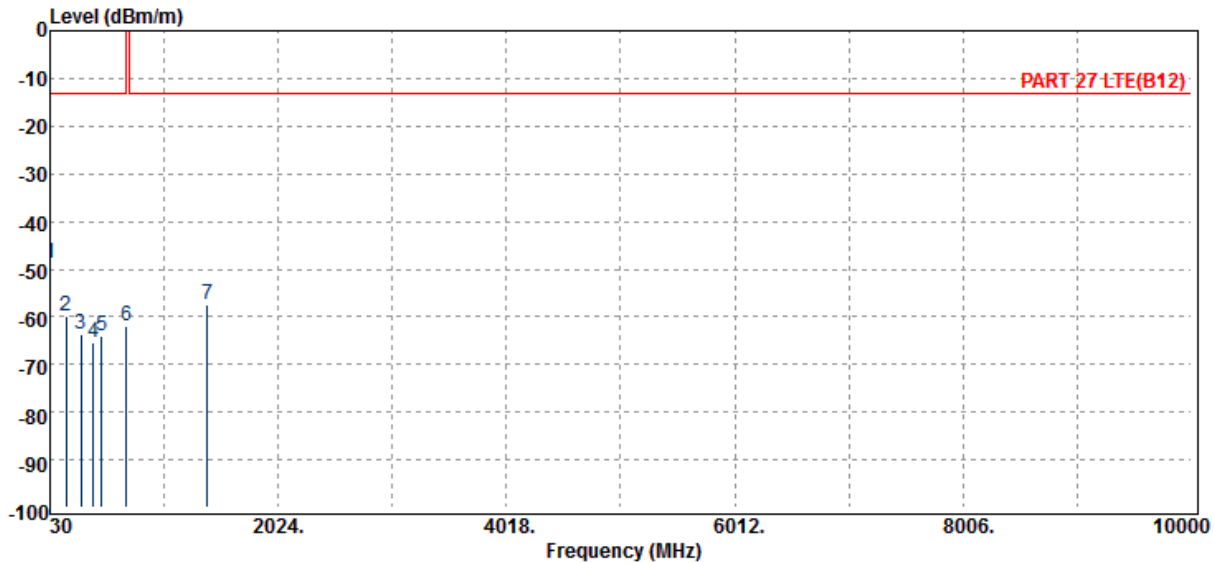
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B12   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :701.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -57.54          | -61.76                    | 8.20                       | -3.99               | -13.00       | -44.54       |

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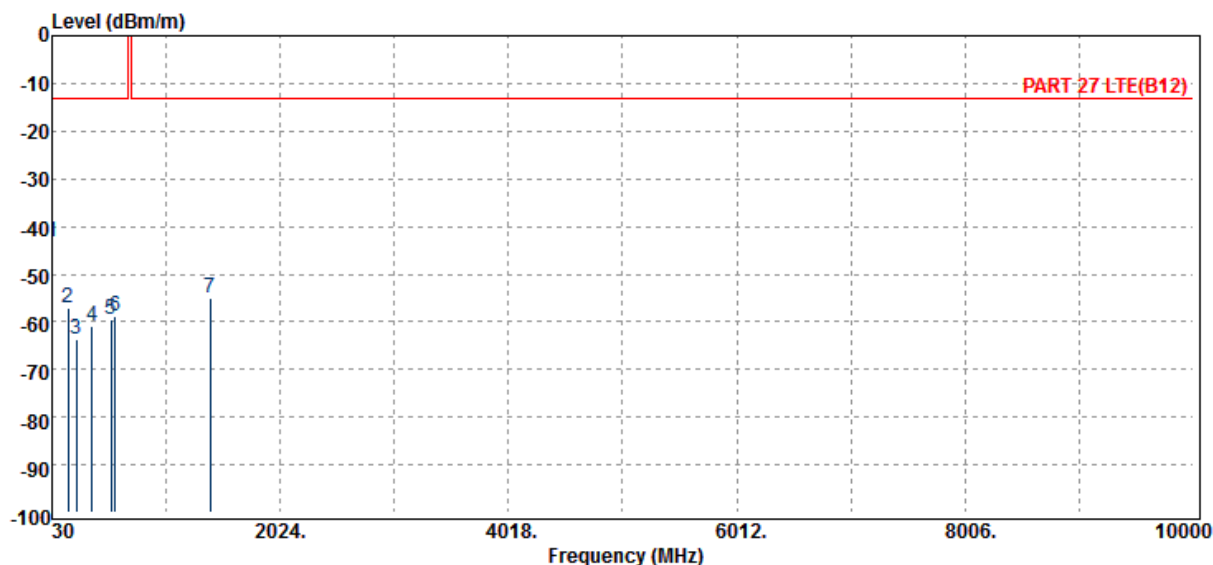
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B12   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :707.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna:VERTICAL    |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -54.97          | -59.22                    | 8.25                       | -4.01               | -13.00       | -41.97       |

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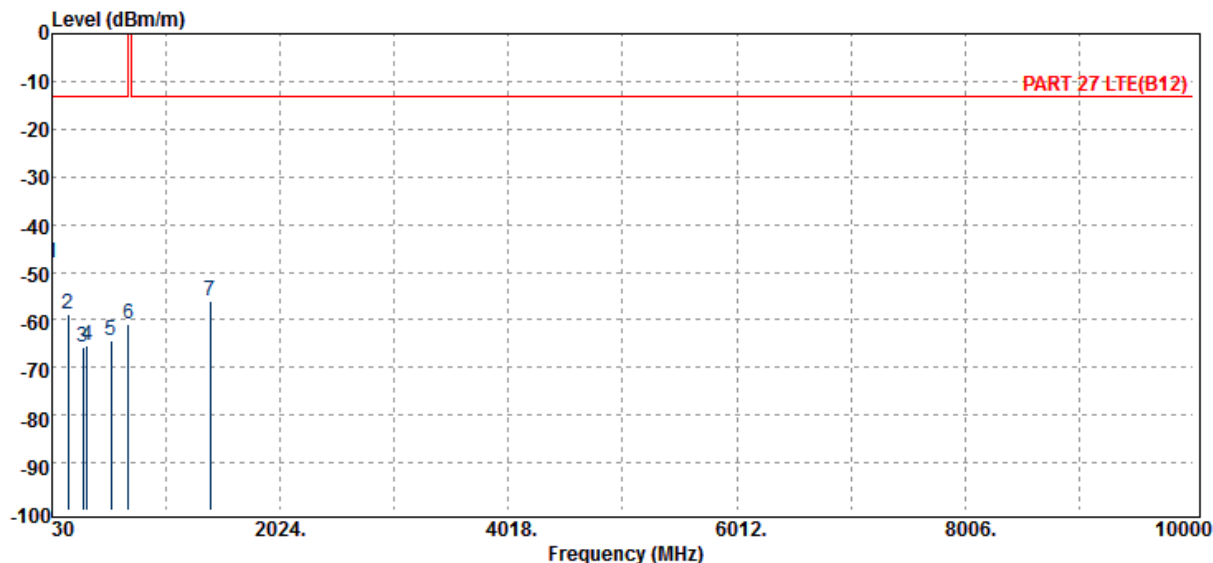
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B12   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :707.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -56.08          | -60.33                    | 8.25                       | -4.01               | -13.00       | -43.08       |

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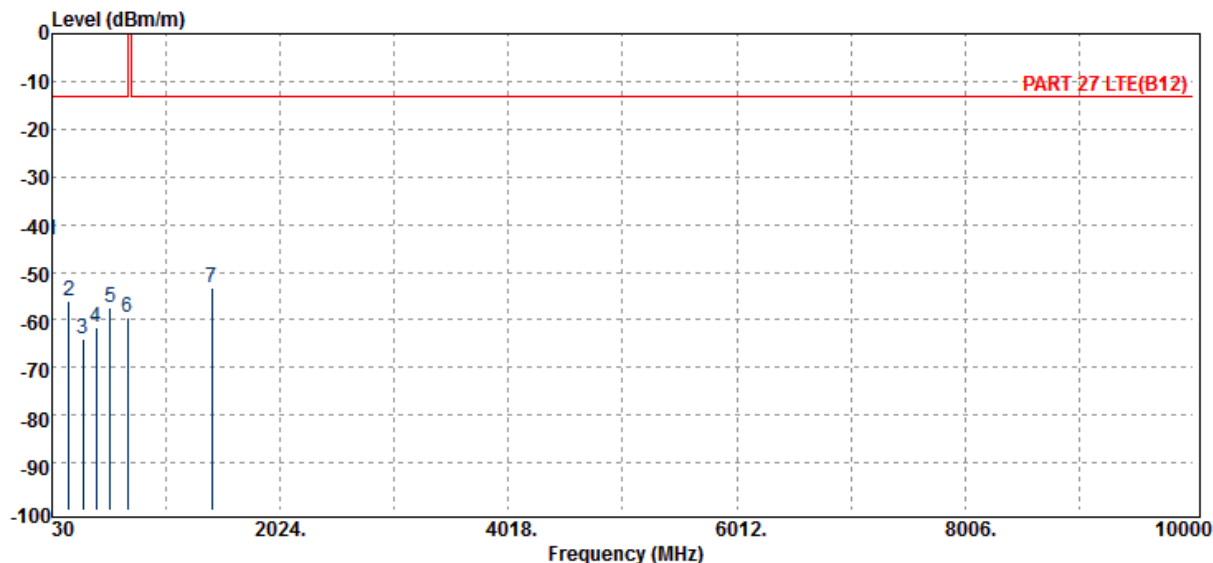
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B12    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :713.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna:VERTICAL    |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -53.24          | -57.51                    | 8.30                       | -4.03               | -13.00       | -40.24       |

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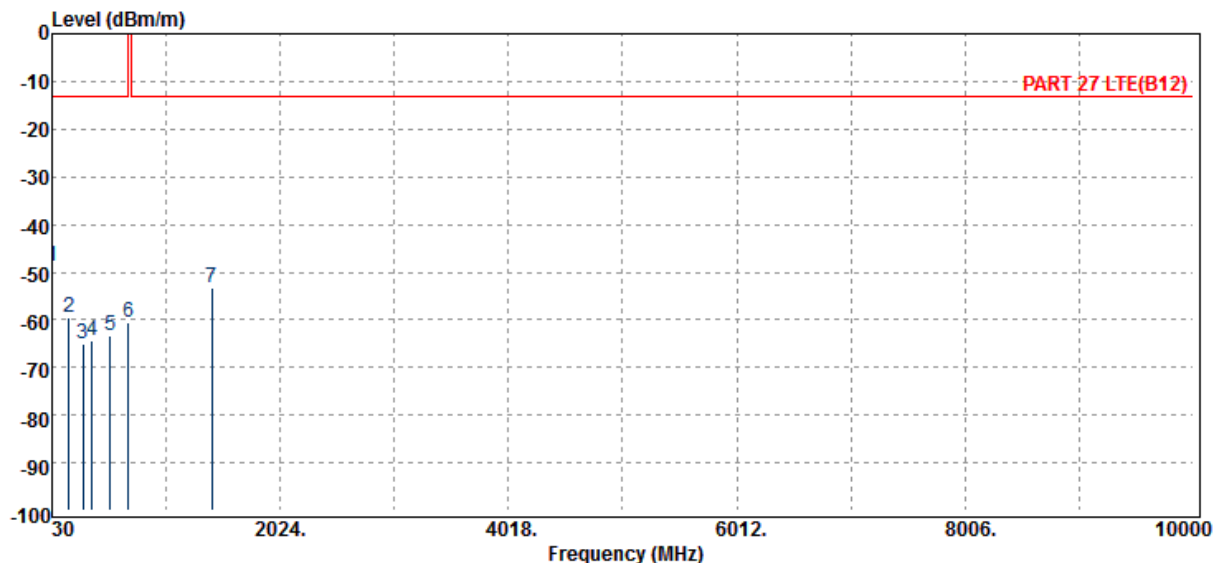
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B12    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :713.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -53.36          | -57.64                    | 8.30                       | -4.03               | -13.00       | -40.36       |

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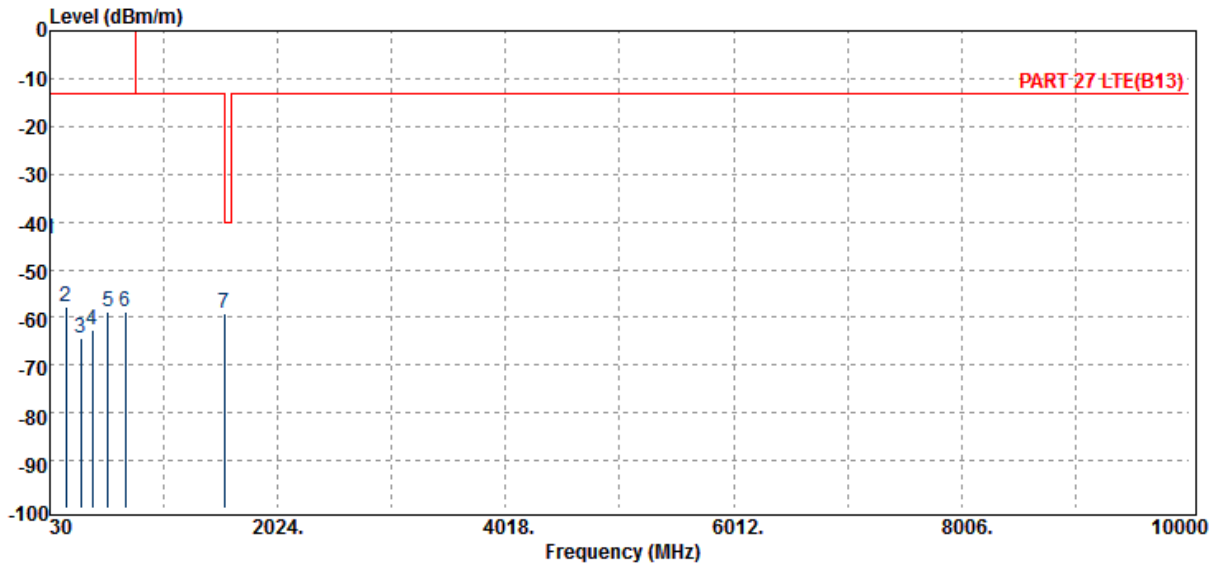
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## Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :779.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :VERTICAL   |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -59.31          | -61.72                    | 6.66                       | -4.25               | -40.00       | -19.31       |

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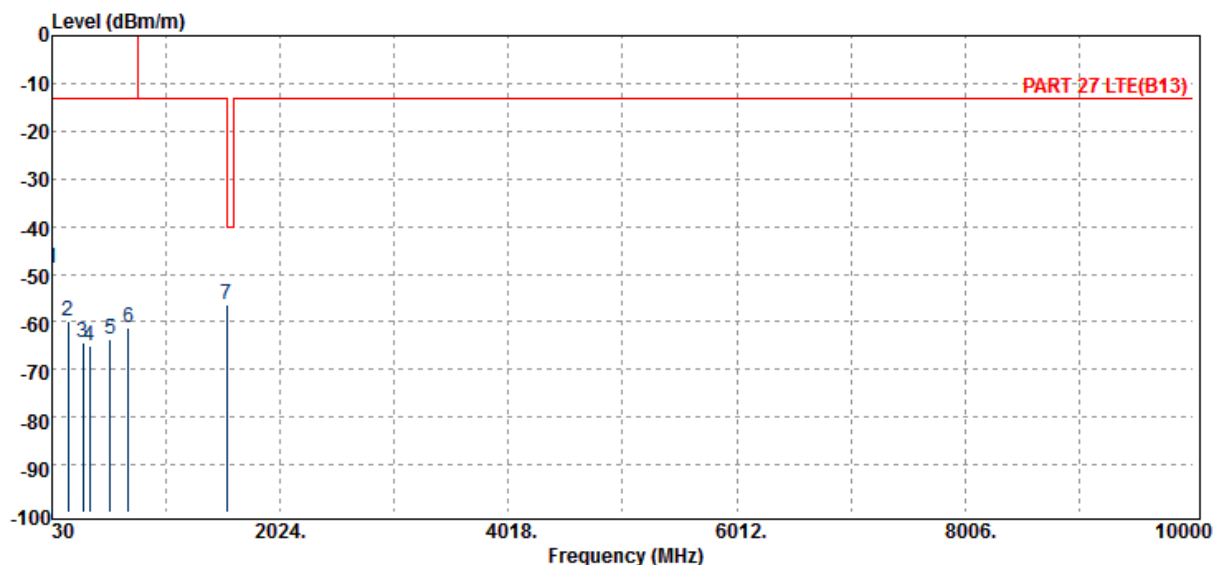
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :779.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -56.43          | -58.84                    | 6.66                       | -4.25               | -40.00       | -16.43       |

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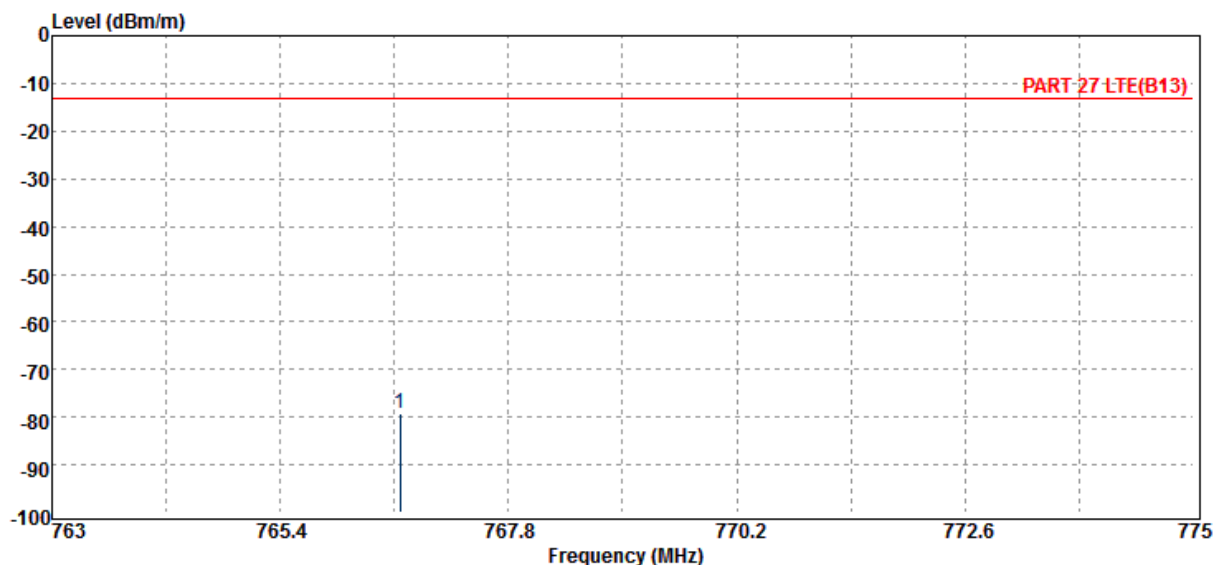
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :779.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna:VERTICAL    |



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

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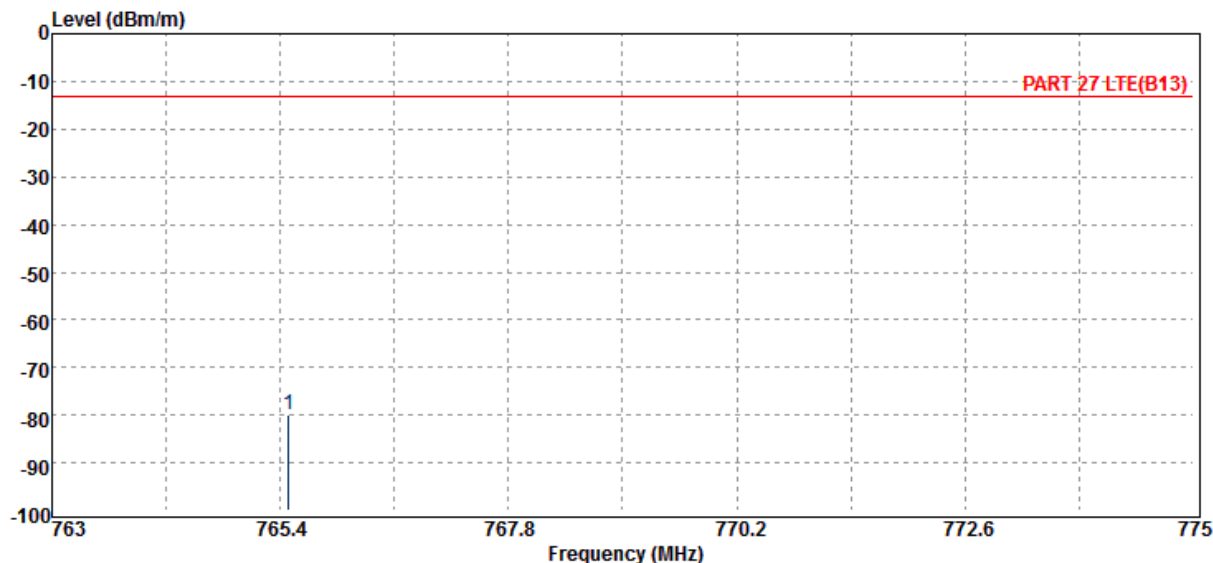
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Operation Band :LTE B13 Temp./Humi. :24.1 deg\_C / 65 RH  
Fundamental Frequency :779.5 MHz Engineer :Tin  
Operation Mode :Tx CH LOW  
EUT Pol. :H Plane Measurement Pol. Antenna :HORIZONTAL



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

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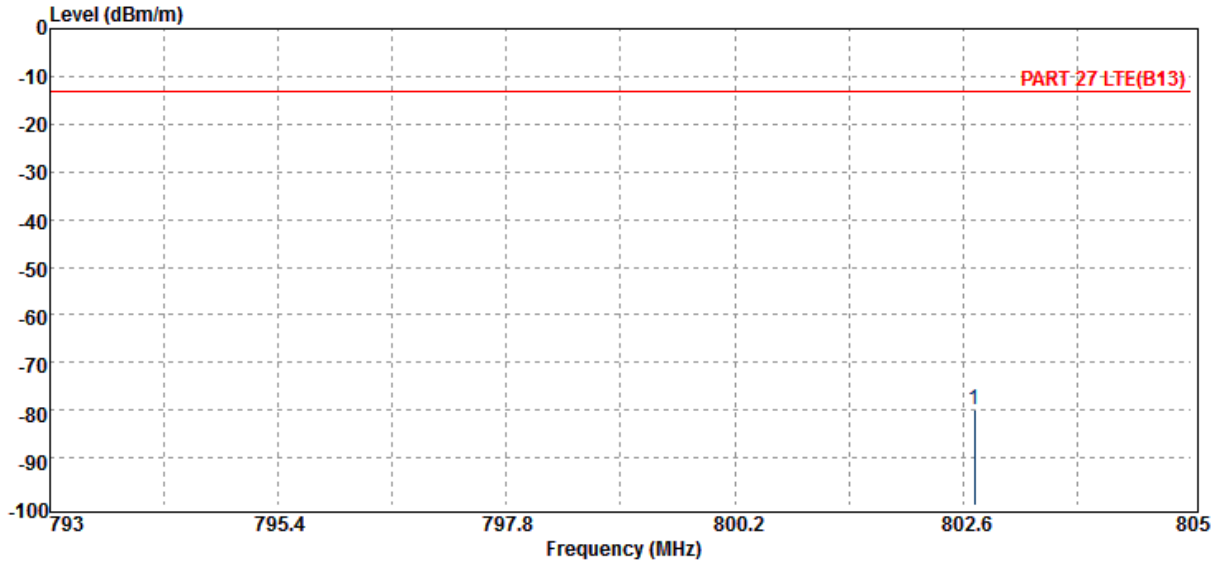
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|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :779.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna:VERTICAL    |



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

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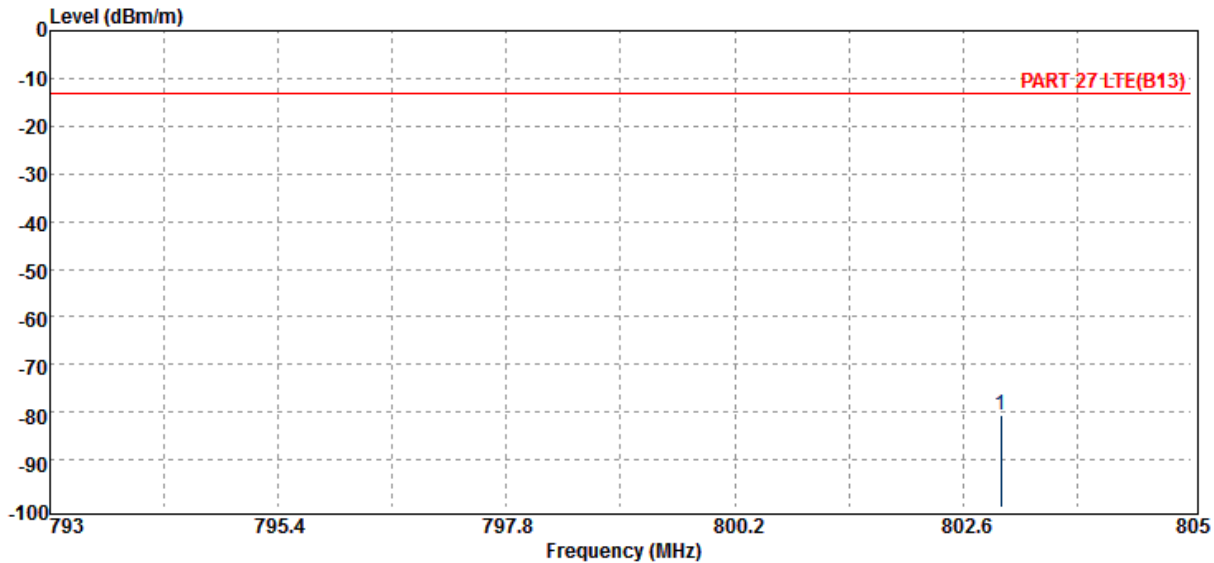
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :779.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :HORIZONTAL |



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

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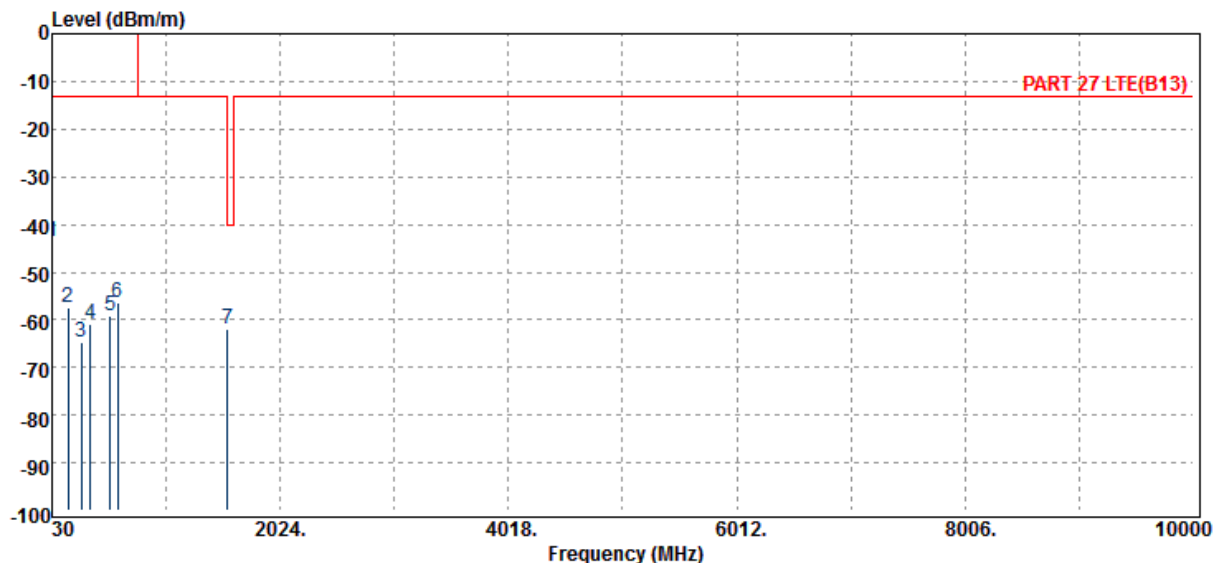
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :782.0 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna:VERTICAL    |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -61.83          | -64.25                    | 6.68                       | -4.26               | -40.00       | -21.83       |

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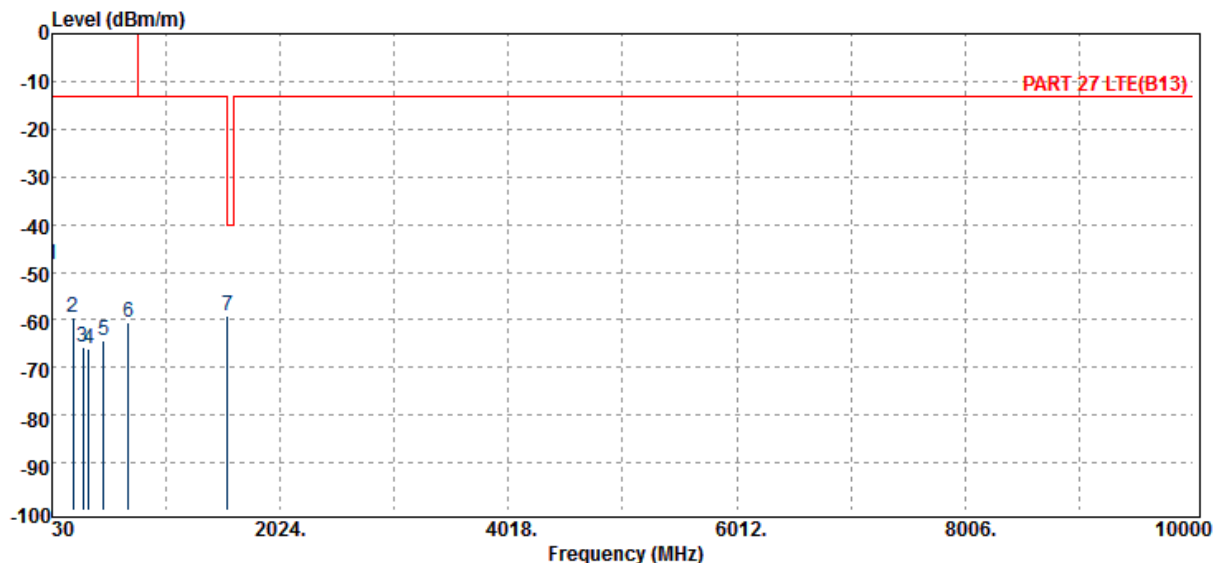
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :782.0 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -59.04          | -61.47                    | 6.68                       | -4.26               | -40.00       | -19.04       |

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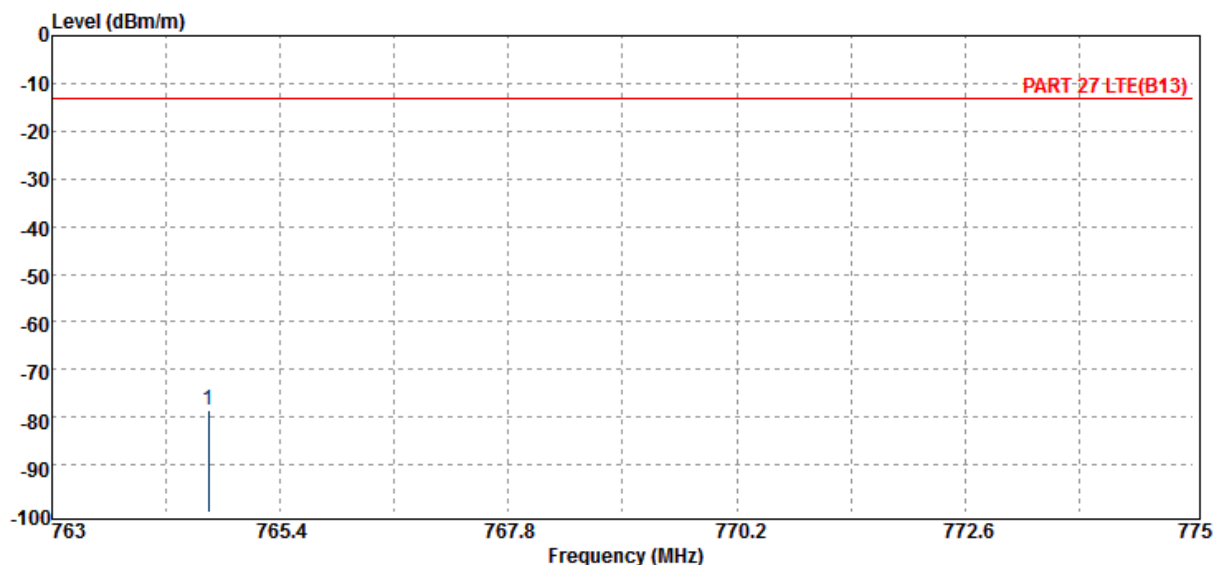
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :782.0 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna:VERTICAL    |



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

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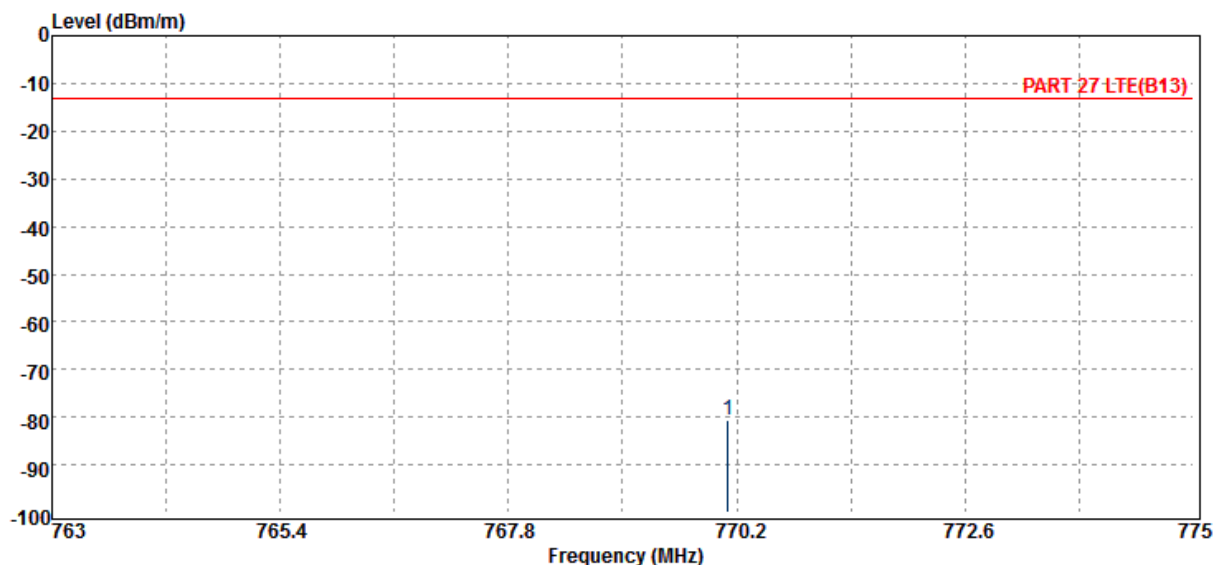
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :782.0 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :HORIZONTAL |



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

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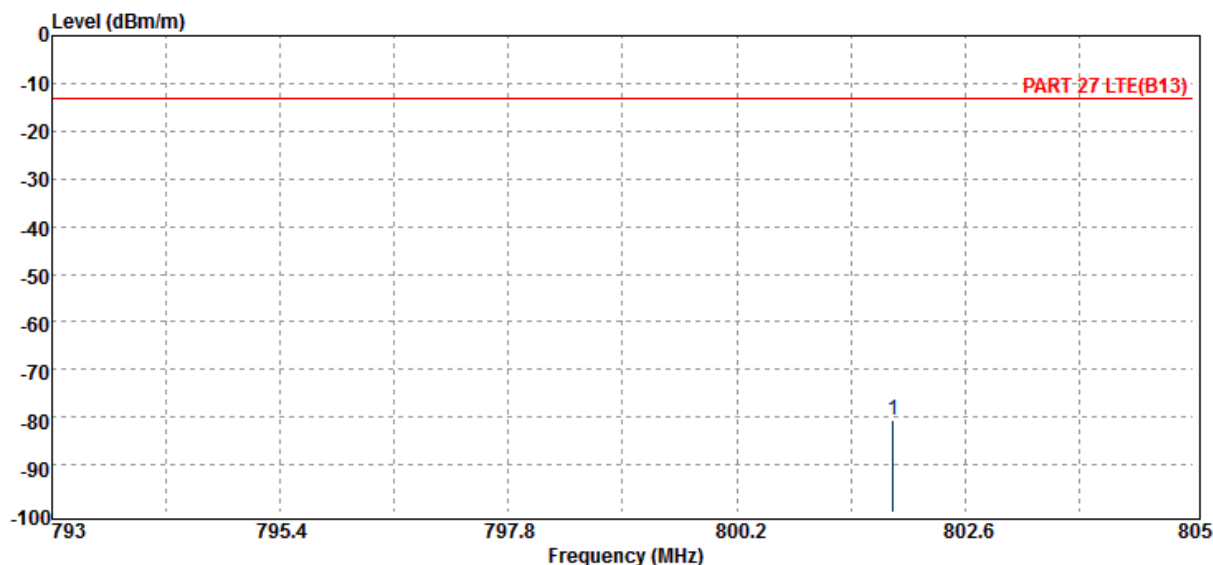
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|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :782.0 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna: VERTICAL   |



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

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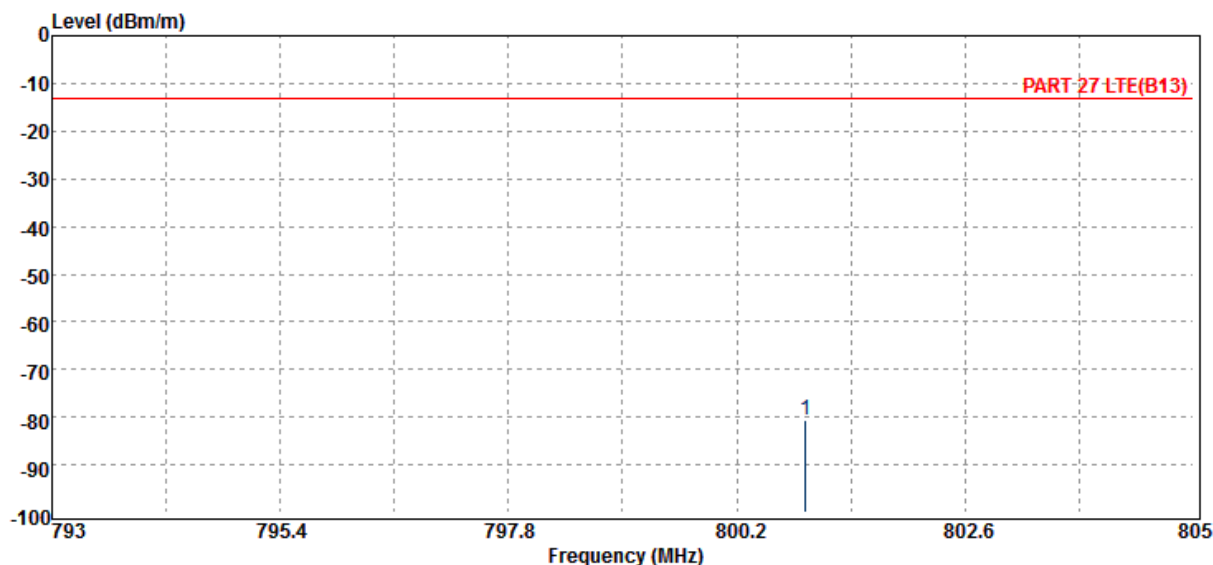
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :782.0 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :HORIZONTAL |



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

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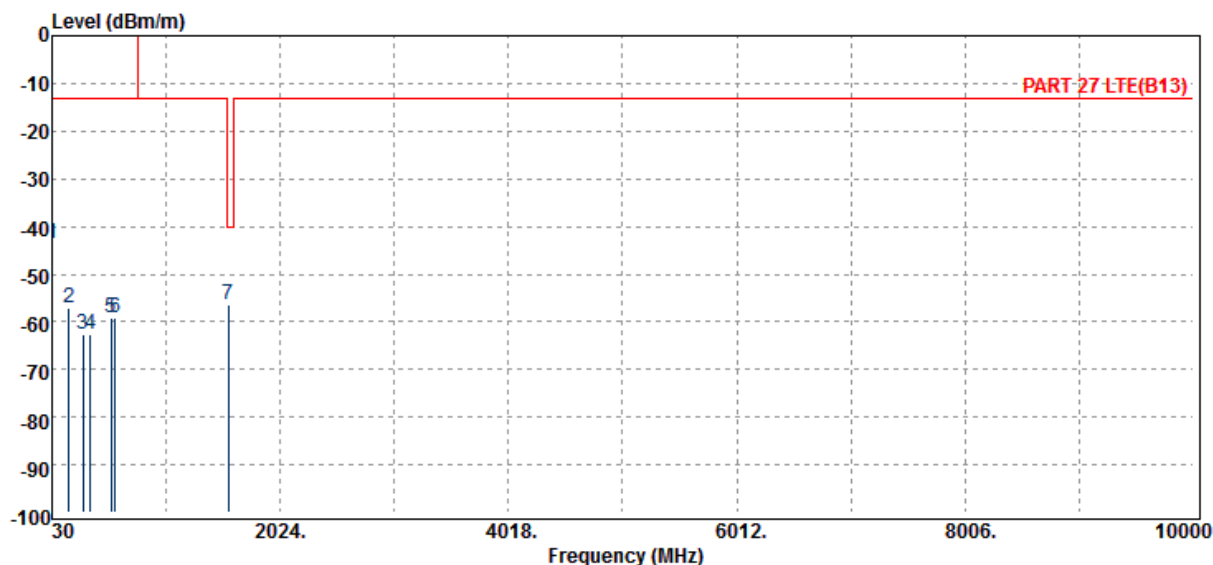
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B13    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :784.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna:VERTICAL    |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -56.42          | -58.85                    | 6.70                       | -4.27               | -40.00       | -16.42       |

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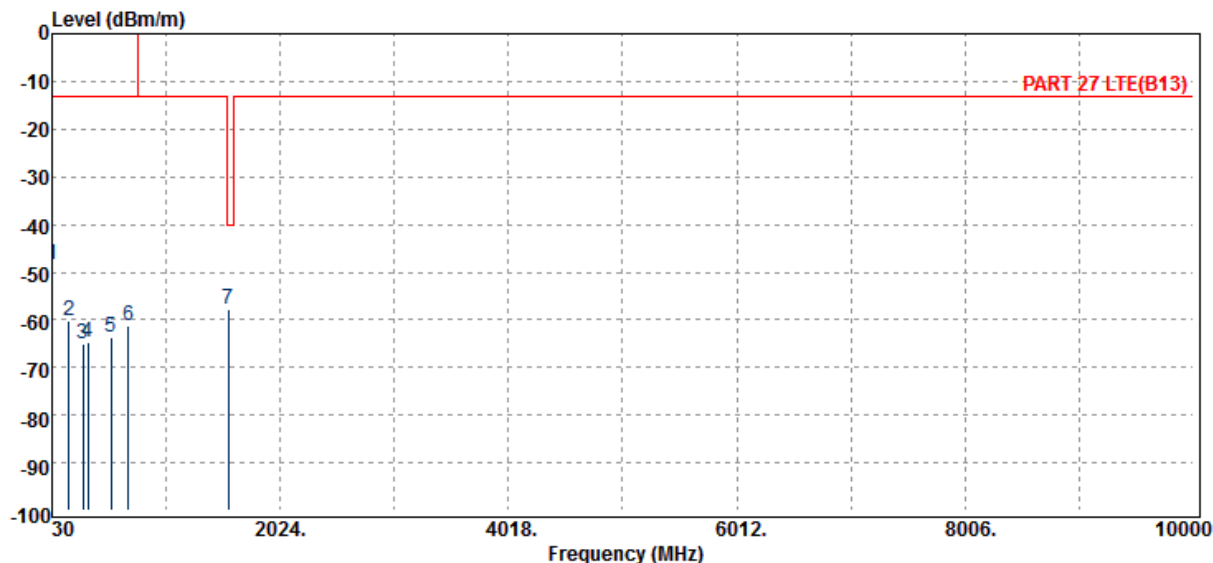
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|                       |             |                          |                     |
|-----------------------|-------------|--------------------------|---------------------|
| Operation Band        | :LTE B13    | Temp./Humi.              | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :784.5 MHz  | Engineer                 | :Tin                |
| Operation Mode        | :Tx CH HIGH |                          |                     |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :HORIZONTAL         |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -57.64          | -60.07                    | 6.70                       | -4.27               | -40.00       | -17.64       |

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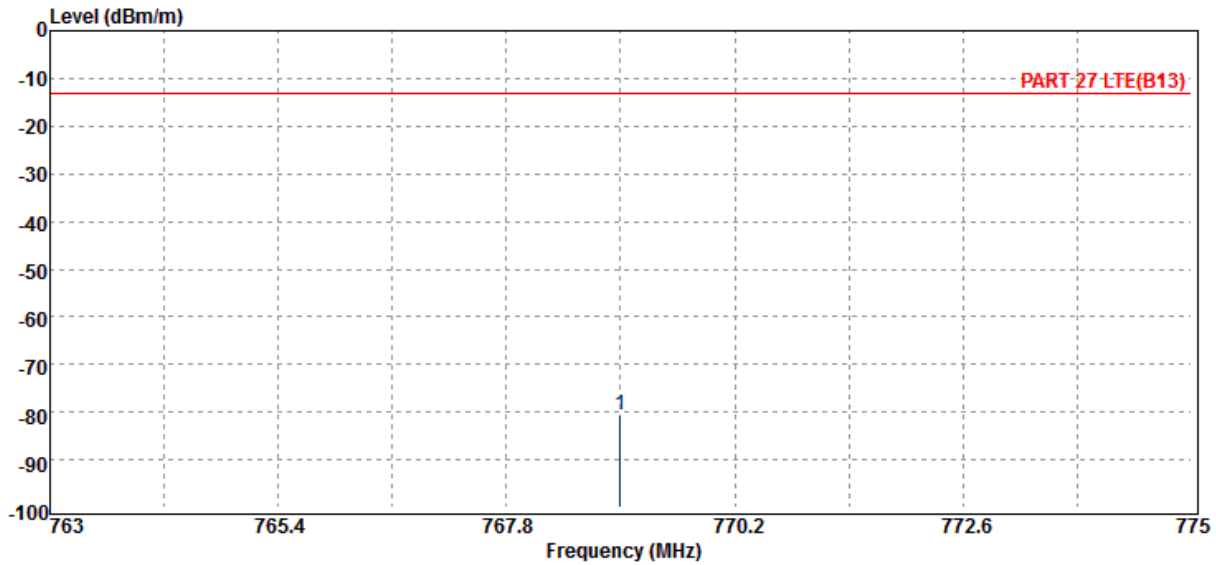
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B13    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :784.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna:VERTICAL    |



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

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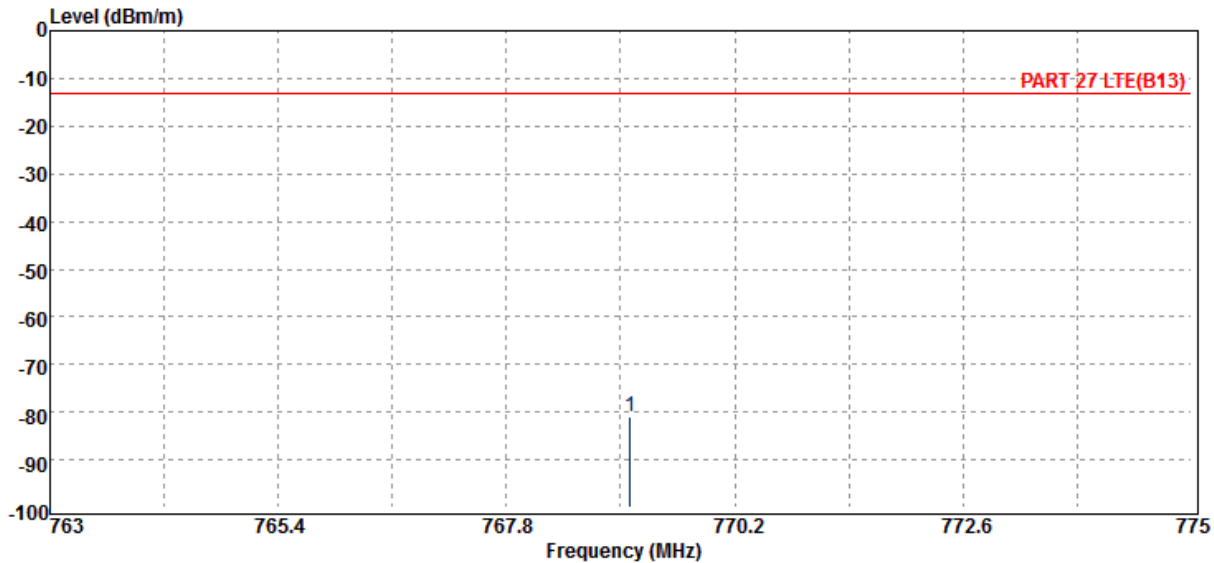
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B13    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :784.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :HORIZONTAL |



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

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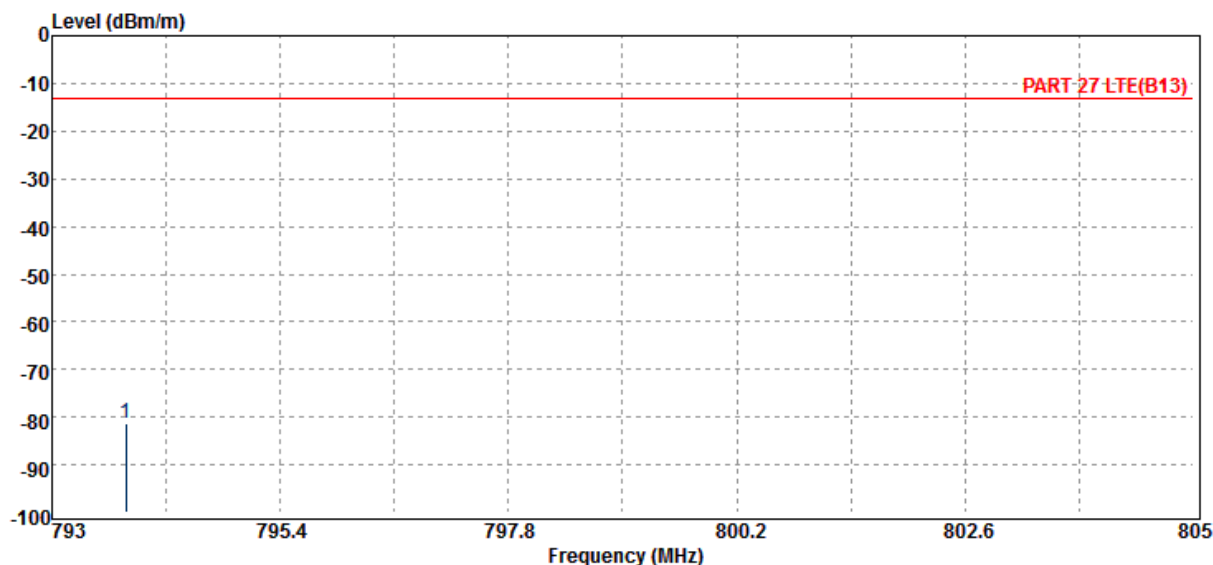
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B13    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :784.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna:VERTICAL    |



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

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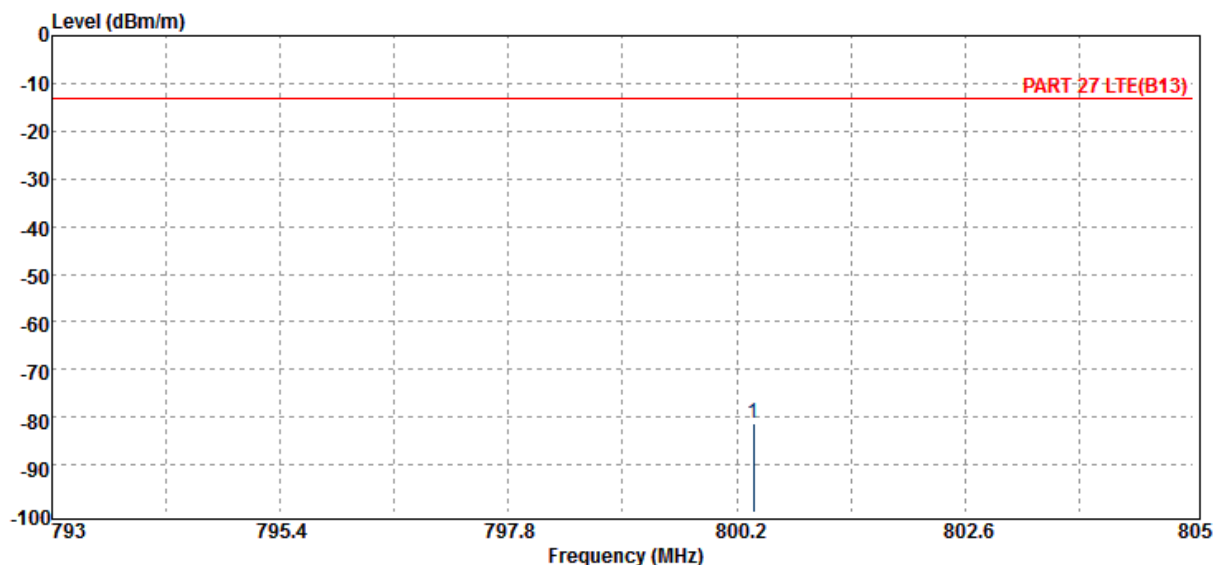
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B13    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :784.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :HORIZONTAL |



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

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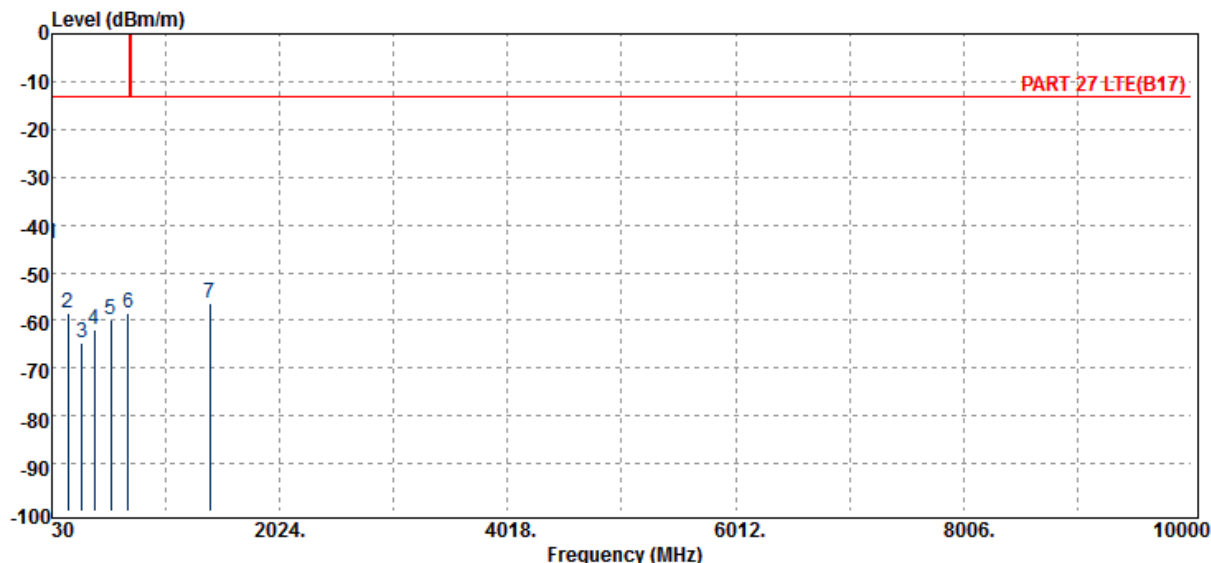
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## Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B17   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :706.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :VERTICAL   |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -56.36          | -60.61                    | 8.25                       | -4.00               | -13.00       | -43.36       |

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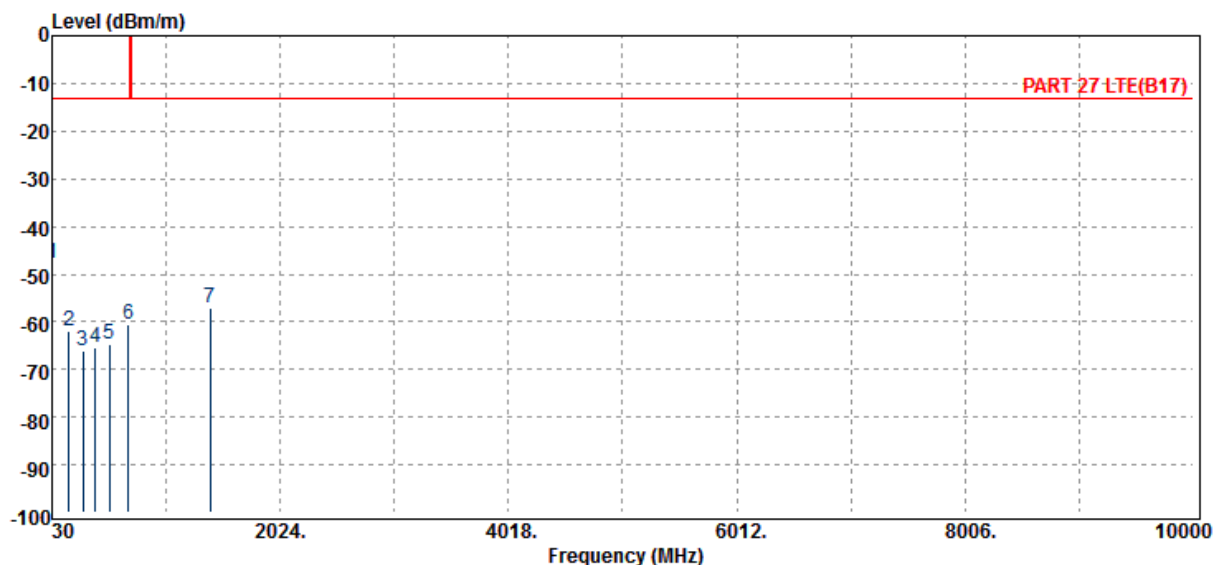
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B17   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :706.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -57.01          | -61.26                    | 8.25                       | -4.00               | -13.00       | -44.01       |

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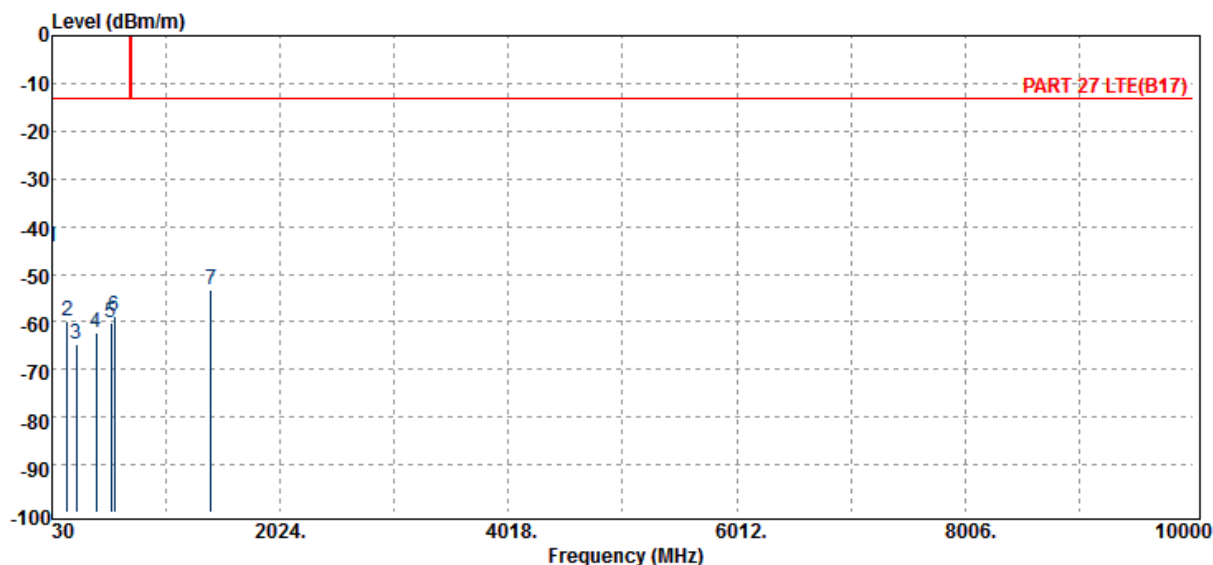
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B17   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :710 MHz   | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna:VERTICAL    |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -53.45          | -57.71                    | 8.28                       | -4.01               | -13.00       | -40.45       |

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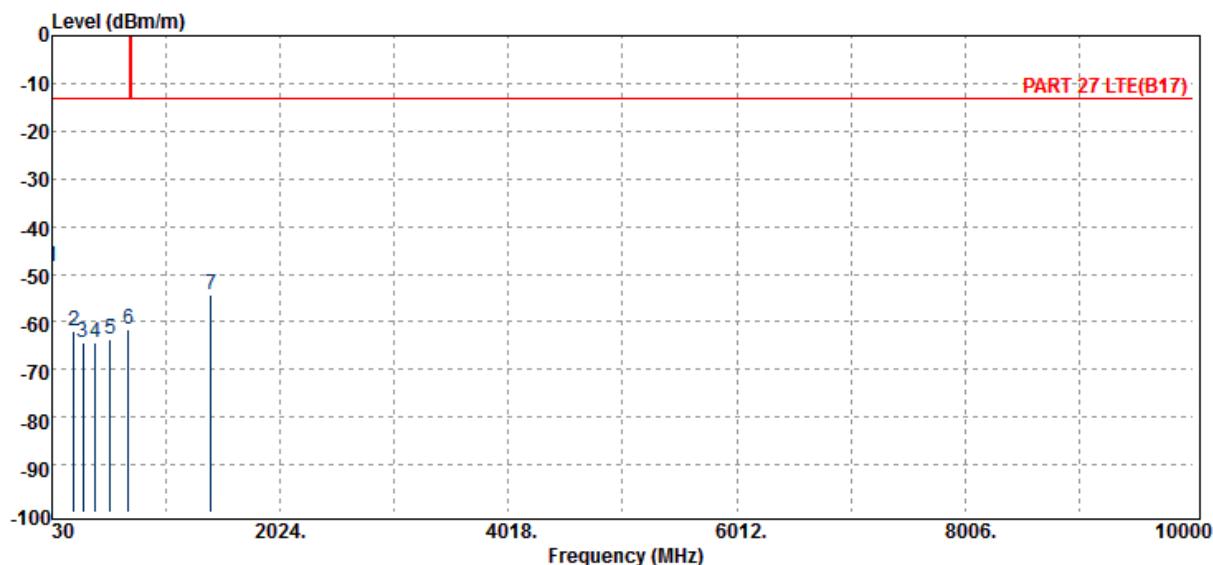
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B17   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :710 MHz   | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -54.17          | -58.43                    | 8.28                       | -4.01               | -13.00       | -41.17       |

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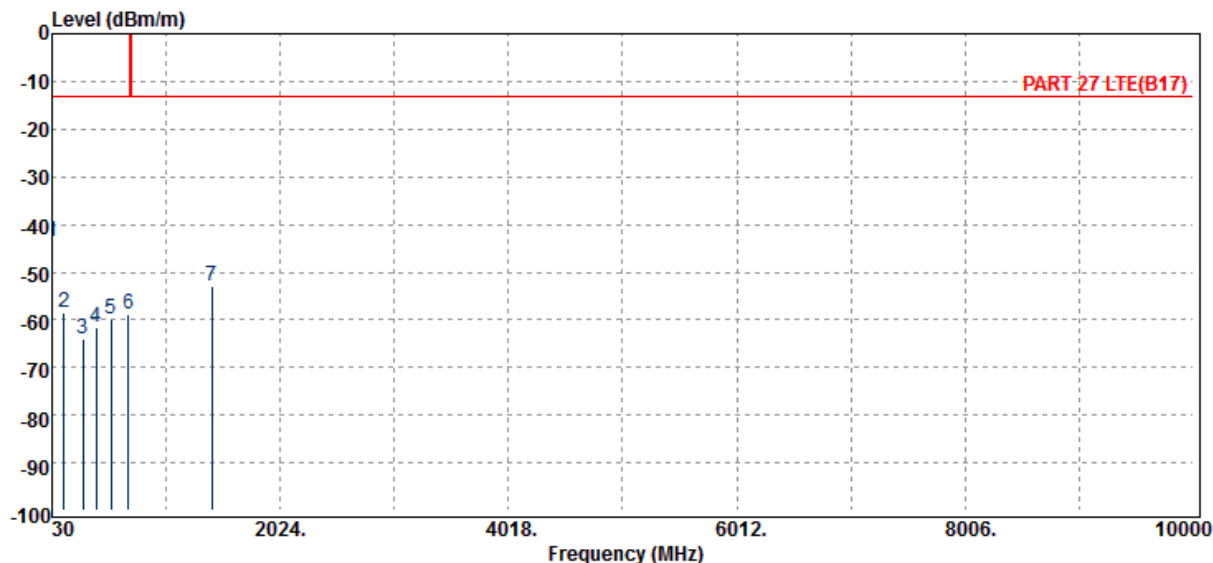
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B17    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :713.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna:VERTICAL    |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -52.92          | -57.20                    | 8.30                       | -4.03               | -13.00       | -39.92       |

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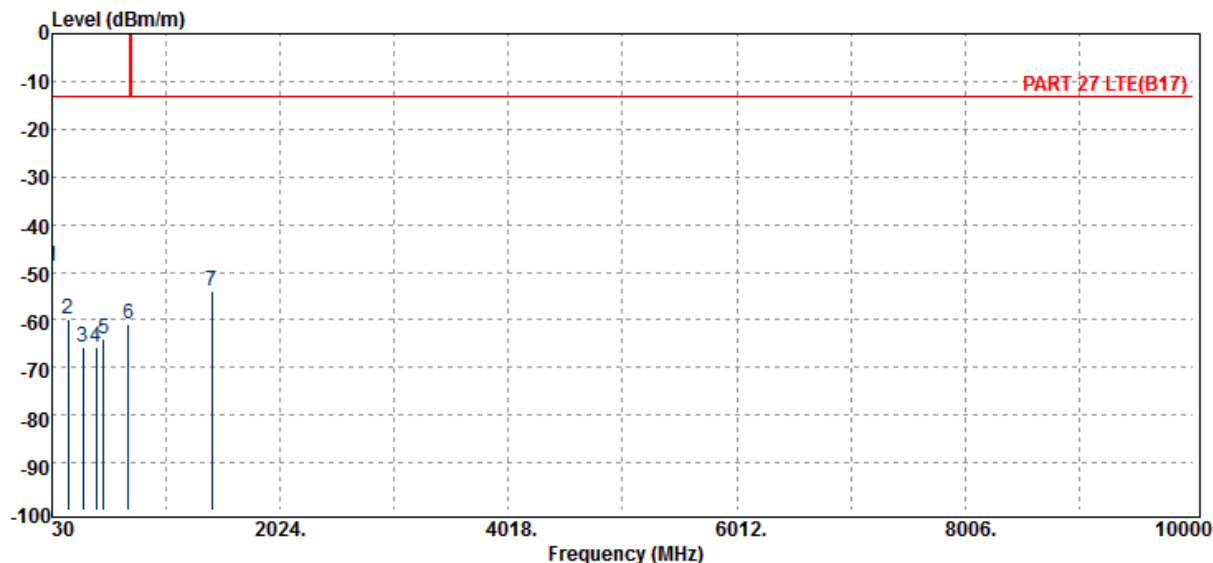
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B17    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :713.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -54.15          | -58.42                    | 8.30                       | -4.03               | -13.00       | -41.15       |

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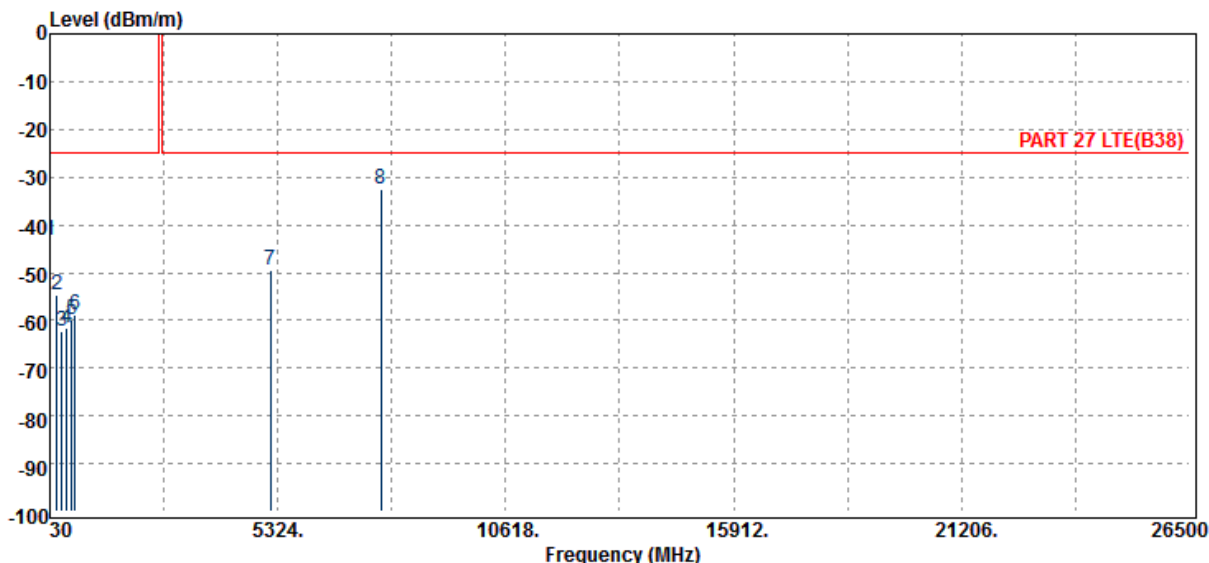
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### Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B38   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2575 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :VERTICAL   |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -49.61          | -54.18                    | 12.69                      | -8.12               | -25.00       | -24.61       |
| 7725.00      | H               | -32.51          | -32.96                    | 10.66                      | -10.21              | -25.00       | -7.51        |

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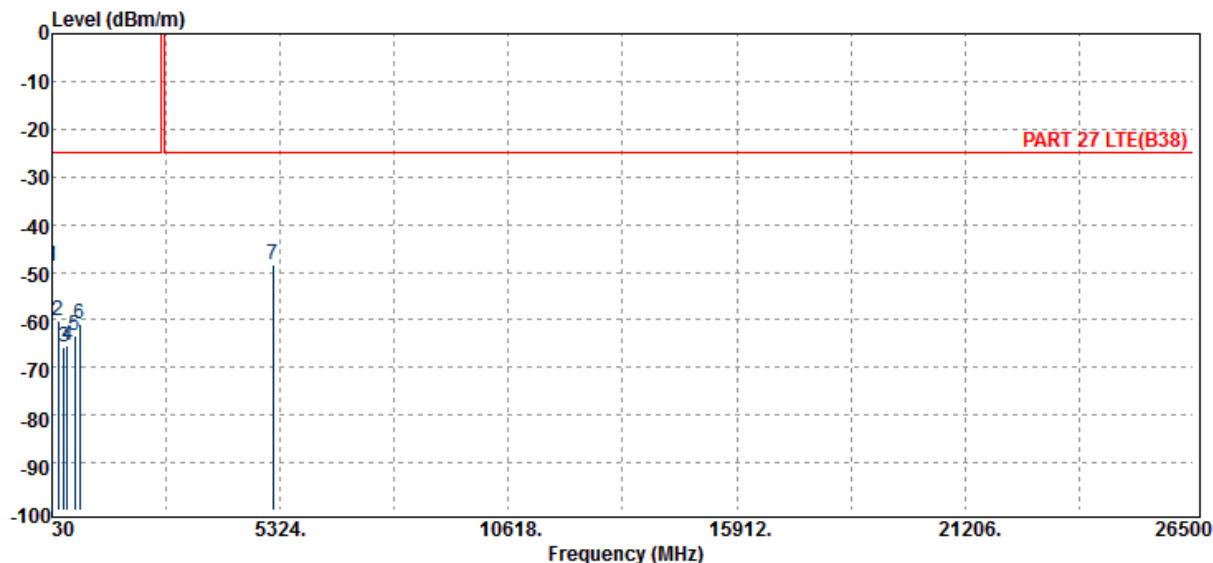
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B38   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2575 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -48.42          | -52.98                    | 12.69                      | -8.12               | -25.00       | -23.42       |

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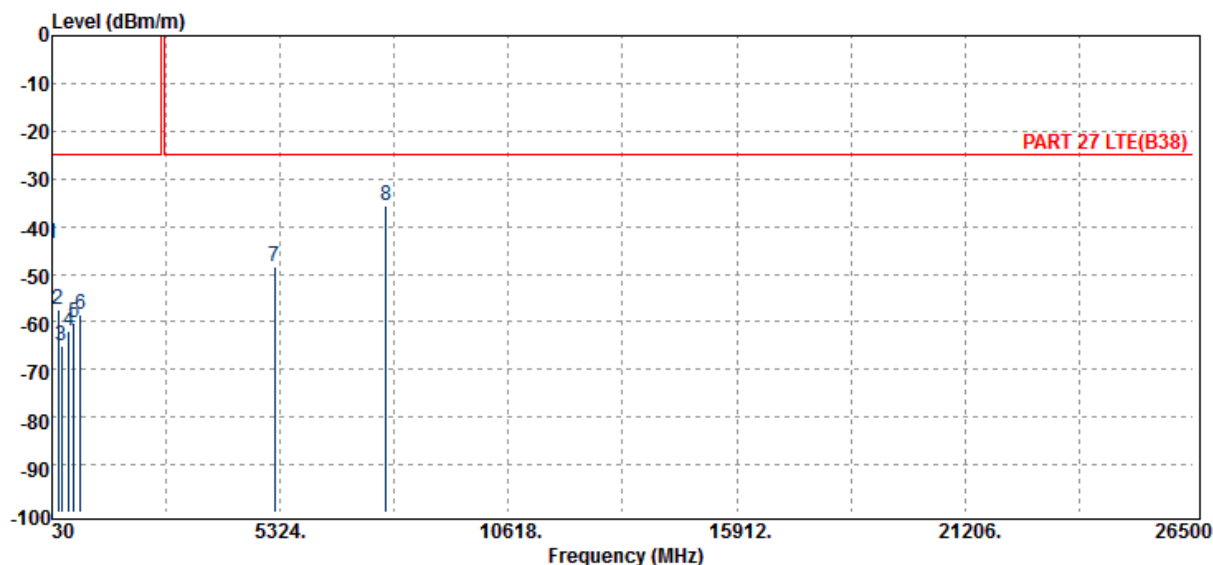
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|                       |            |             |                     |
|-----------------------|------------|-------------|---------------------|
| Operation Band        | :LTE B38   | Temp./Humi. | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2595 MHz  | Engineer    | :Tin                |
| Operation Mode        | :Tx CH MID | Measurement | Antenna             |
| EUT Pol.              | :H Plane   | Pol.        | :VERTICAL           |



| Freq.   | Note    | ERP/EIRP | SG                  | Antenna         | Cable      | Limit  | Margin |
|---------|---------|----------|---------------------|-----------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm      | Output Level<br>dBm | Gain<br>dBd/dBi | Loss<br>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 | H       | -48.62   | -53.16              | 12.73           | -8.19      | -25.00 | -23.62 |
| 7785.00 | H       | -35.47   | -35.79              | 10.63           | -10.30     | -25.00 | -10.47 |

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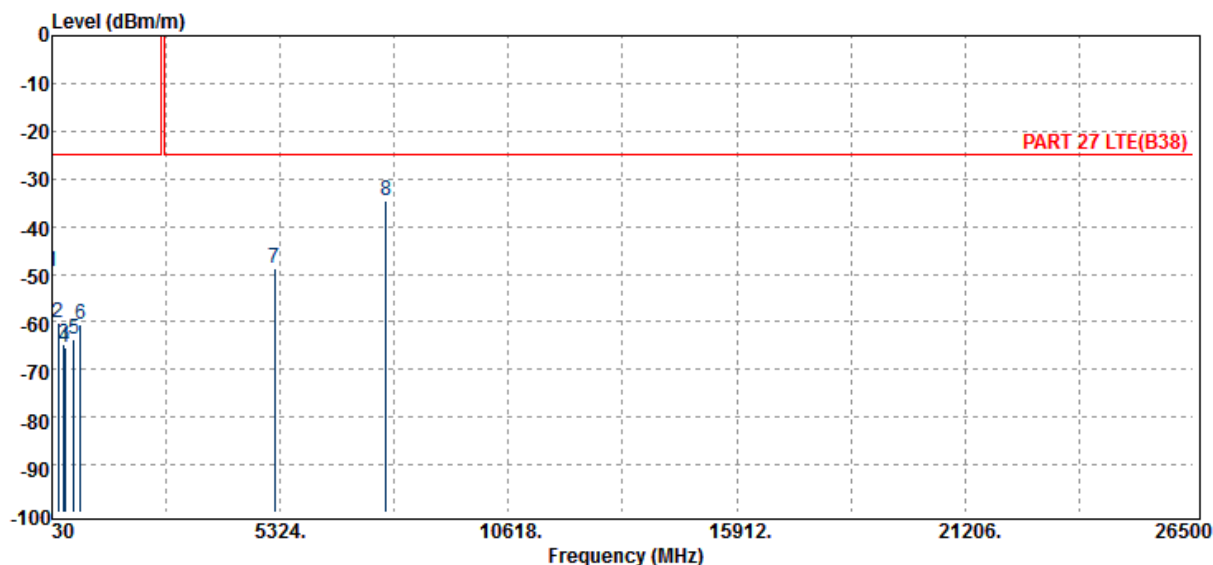
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|-----------------------|------------|--------------------------|---------------------|
| Operation Band        | :LTE B38   | Temp./Humi.              | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2595 MHz  | Engineer                 | :Tin                |
| Operation Mode        | :Tx CH MID |                          |                     |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :HORIZONTAL         |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -48.64          | -53.18                    | 12.73                      | -8.19               | -25.00       | -23.64       |
| 7785.00      | H               | -34.66          | -34.98                    | 10.63                      | -10.30              | -25.00       | -9.66        |

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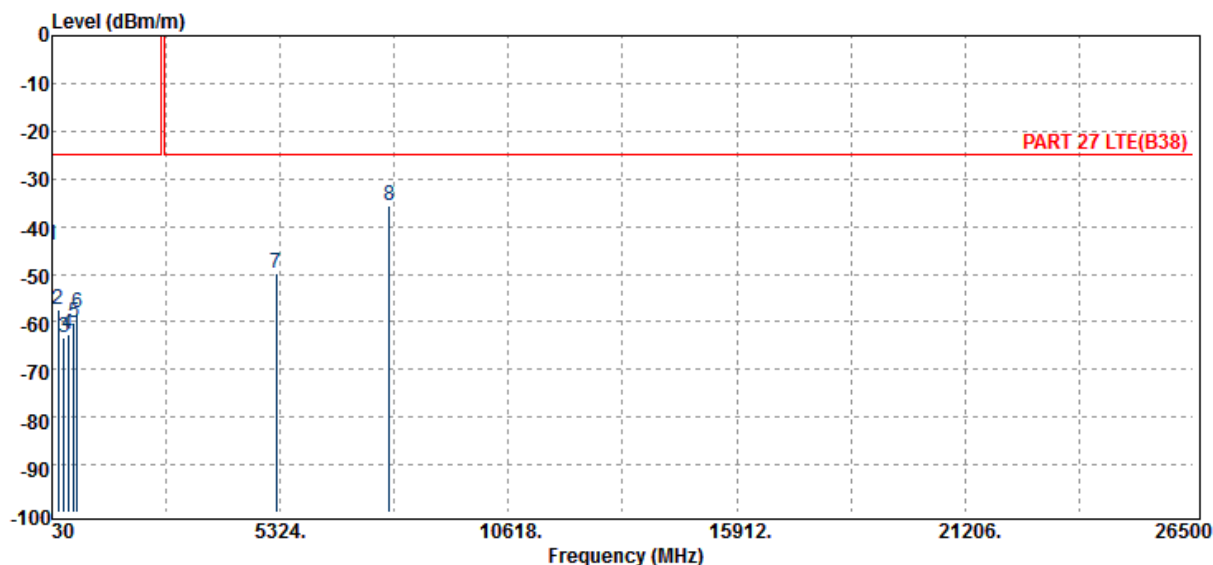
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B38    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2615 MHz   | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna:VERTICAL    |



| Freq.<br>MHz | Note<br>F/H/E/S | ERP/EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBd/dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>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      | H               | -49.95          | -54.52                    | 12.78                      | -8.22               | -25.00       | -24.95       |
| 7845.00      | H               | -35.66          | -36.00                    | 10.59                      | -10.25              | -25.00       | -10.66       |

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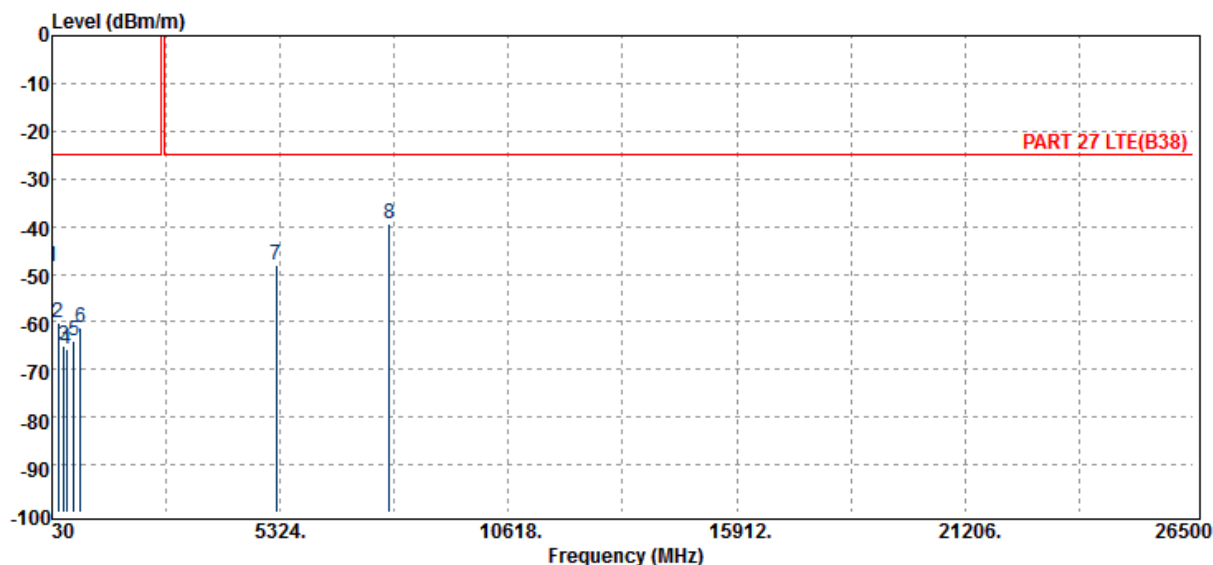
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B38    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2615 MHz   | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :HORIZONTAL |



| Freq.   | Note    | ERP/EIRP | SG                  | Antenna         | Cable      | Limit  | Margin |
|---------|---------|----------|---------------------|-----------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm      | Output Level<br>dBm | Gain<br>dBd/dBi | Loss<br>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 | H       | -48.18   | -52.74              | 12.78           | -8.22      | -25.00 | -23.18 |
| 7845.00 | H       | -39.30   | -39.64              | 10.59           | -10.25     | -25.00 | -14.30 |

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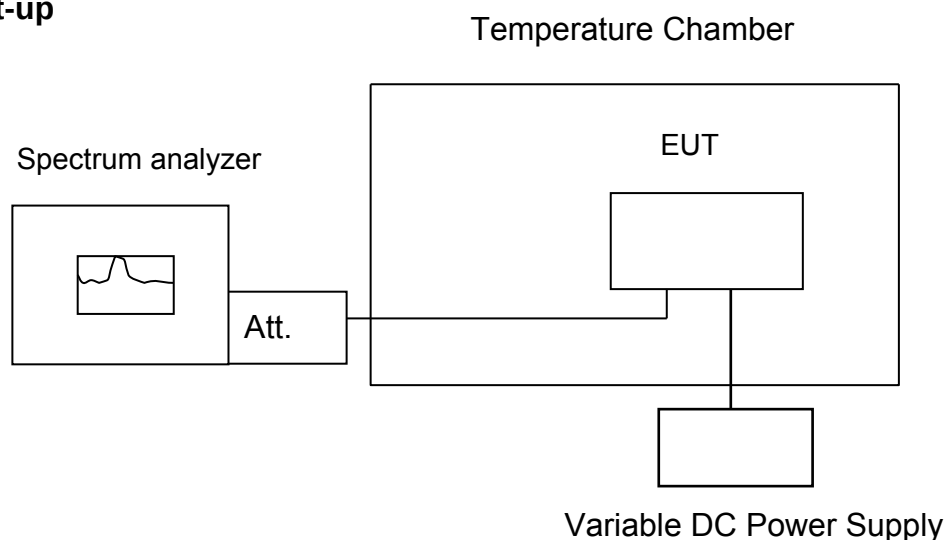
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## 11. FREQUENCY STABILITY MEASUREMENT

### 11.1. Standard Applicable

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

### 11.2. Test Set-up



**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°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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#### 11.4. Measurement Equipment Used

| EQUIPMENT TYPE               | MFR          | MODEL NUMBER | SERIAL NUMBER  | LAST CAL.  | CAL DUE.   |
|------------------------------|--------------|--------------|----------------|------------|------------|
| EXA Spectrum Analyzer        | Agilent      | N9010A       | MY54200716     | 2017/10/16 | 2018/10/15 |
| Radio Communication Analyser | Anritsu      | MT8820C      | 6201465317     | 2018/01/17 | 2019/01/16 |
| Attenuator                   | Mini-Circuit | BW-S10W2+    | 2              | 2018/01/02 | 2019/01/01 |
| Splitter                     | RF-LAMBDA    | 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

| Reference Frequency: GPRS 850 Mid Channel 836.6 MHz |                  |            |              |            |
|-----------------------------------------------------|------------------|------------|--------------|------------|
| Limit: +/- 2.5 ppm                                  |                  |            |              |            |
| Power Supply                                        | Environment      | Frequency  | Delta (Hz)   | Limit (Hz) |
| Vdc                                                 | Temperature (°C) | (MHz)      |              |            |
| 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

| Reference Frequency: GPRS 850 Mid Channel 836.6 MHz |                  |            |              |            |
|-----------------------------------------------------|------------------|------------|--------------|------------|
| Limit: +/- 2.5 ppm                                  |                  |            |              |            |
| Power Supply                                        | Environment      | Frequency  | Delta (Hz)   | Limit (Hz) |
| Vdc                                                 | Temperature (°C) | (MHz)      |              |            |
| 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   | Delta (Hz)   | Limit (Hz) |
| Vdc                                                 | Temperature (°C) | (MHz)       |              |            |
| 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)   | Limit (Hz) |
| Vdc                                                 | Temperature (°C) | (MHz)       |              |            |
| 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 | -1.000000111 | 4700       |
| 3.85                                                | 10               | 1880.000004 | 3.99999999   | 4700       |
| 3.85                                                | 0                | 1880.000006 | 5.999999985  | 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   | Delta (Hz)   | Limit (Hz) |
| Vdc                                                | Temperature (°C) | (MHz)       |              |            |
| 4.43                                               | 20               | 1880.000006 | 5.999999985  | 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

| Reference Frequency: WCDMA II Mid Channel 1880 MHz |                  |             |              |            |
|----------------------------------------------------|------------------|-------------|--------------|------------|
| Limit: +/- 2.5 ppm                                 |                  |             |              |            |
| Power Supply                                       | Environment      | Frequency   | Delta (Hz)   | Limit (Hz) |
| Vdc                                                | Temperature (°C) | (MHz)       |              |            |
| 3.85                                               | 50               | 1879.999993 | -7.000000096 | 4700       |
| 3.85                                               | 40               | 1880.000003 | 3.000000106  | 4700       |
| 3.85                                               | 30               | 1880        | 0            | 4700       |
| 3.85                                               | 20               | 1880.000004 | 3.999999999  | 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 | 9.000000091  | 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   | Delta (Hz)   | Limit (Hz) |
| Vdc                                                  | Temperature (°C) | (MHz)       |              |            |
| 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   | Delta (Hz)   | Limit (Hz) |
| Vdc                                                  | Temperature (°C) | (MHz)       |              |            |
| 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               | 1732.599999 | -9.999999975 | 4331       |
| 3.85                                                 | 10               | 1732.599994 | -5.999999985 | 4331       |
| 3.85                                                 | 0                | 1732.599998 | -1.999999995 | 4331       |
| 3.85                                                 | -10              | 1732.599996 | -3.999999999 | 4331       |
| 3.85                                                 | -20              | 1732.600006 | 5.999999985  | 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  | Delta (Hz)   | Limit (Hz) |
| Vdc                                                | Temperature (°C) | (MHz)      |              |            |
| 4.43                                               | 20               | 836.600004 | 3.99999999   | 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

| Reference Frequency: WCDMA V Mid Channel 836.6 MHz |                  |            |              |            |
|----------------------------------------------------|------------------|------------|--------------|------------|
| Limit: +/- 2.5 ppm                                 |                  |            |              |            |
| Power Supply                                       | Environment      | Frequency  | Delta (Hz)   | Limit (Hz) |
| Vdc                                                | Temperature (°C) | (MHz)      |              |            |
| 3.85                                               | 50               | 836.600002 | 1.999999995  | 2091       |
| 3.85                                               | 40               | 836.599997 | -2.999999992 | 2091       |
| 3.85                                               | 30               | 836.600006 | 5.999999985  | 2091       |
| 3.85                                               | 20               | 836.600001 | 0.999999997  | 2091       |
| 3.85                                               | 10               | 836.600008 | 7.999999998  | 2091       |
| 3.85                                               | 0                | 836.599998 | -1.999999995 | 2091       |
| 3.85                                               | -10              | 836.599996 | -3.999999999 | 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. (°C) | 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<br>(End Point)        | 25         | 1880.000001        | 1.00000011  | 4700                     |                   |
| Freq. ERROR vs. Temp.   |            |                    |             |                          |                   |
| 3.85                    | -30        | 1879.999997        | -3.00000001 | 4700                     |                   |
| 3.85                    | -20        | 1880.000005        | 5.00000001  | 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        | 7.00000001  | 4700                     |                   |
| 3.85                    | 50         | 1880.000003        | 3.00000011  | 4700                     |                   |

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|-------------------------|------------|--------------------|------------|--------------------------|-----|-------------------|
| Reference Freq.:        |            | LTE B4 Mid Channel |            | 1732.5                   | MHz | 20M QPSK CH 20175 |
| Power Supply Vdc        | Temp. (°C) | 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<br>(End Point)        | 25         | 1732.500003        | 3.00000011 | 4331                     |     |                   |
| Freq. ERROR vs. Temp.   |            |                    |            |                          |     |                   |
| 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        | 5.99999998 | 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. (°C) | 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<br>(End Point)        | 25         | 836.500005         | 4.99999999 | 2091                     |                   |
| Freq. ERROR vs. Temp.   |            |                    |            |                          |                   |
| 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         | 8.99999998 | 2091                     |                   |
| 3.85                    | 20         | 836.500001         | 1          | 2091                     |                   |
| 3.85                    | 30         | 836.500002         | 1.99999999 | 2091                     |                   |
| 3.85                    | 40         | 836.500009         | 8.99999998 | 2091                     |                   |
| 3.85                    | 50         | 836.500009         | 8.99999998 | 2091                     |                   |

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| Reference Freq.: LTE B12 Mid Channel 707.5 MHz 10M QPSK CH 23095 |            |             |            |                          |
|------------------------------------------------------------------|------------|-------------|------------|--------------------------|
| Power Supply Vdc                                                 | Temp. (°C) | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| <b>Freq. ERROR vs. VOLTAGE</b>                                   |            |             |            |                          |
| 4.43                                                             | 25         | 707.499996  | -4         | 1769                     |
| 3.85                                                             | 25         | 707.500003  | 2.99999999 | 1769                     |
| 3.27                                                             | 25         | 707.499998  | -2         | 1769                     |
| 3<br>(End Point)                                                 | 25         | 707.500001  | 1          | 1769                     |
| <b>Freq. ERROR vs. Temp.</b>                                     |            |             |            |                          |
| 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  | 8.99999998 | 1769                     |
| 3.85                                                             | 40         | 707.499997  | -3         | 1769                     |
| 3.85                                                             | 50         | 707.499994  | -6         | 1769                     |

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|                         |            |                     |            |                          |     |                   |
|-------------------------|------------|---------------------|------------|--------------------------|-----|-------------------|
| Reference Freq.:        |            | LTE B13 Mid Channel |            | 782                      | MHz | 10M QPSK CH 23230 |
| Power Supply Vdc        | Temp. (°C) | Freq. (MHz)         | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |     |                   |
| Freq. ERROR vs. VOLTAGE |            |                     |            |                          |     |                   |
| 4.43                    | 25         | 781.999994          | -6         | 1955                     |     |                   |
| 3.85                    | 25         | 781.999993          | -7         | 1955                     |     |                   |
| 3.27                    | 25         | 782.000001          | 1          | 1955                     |     |                   |
| 3<br>(End Point)        | 25         | 781.999998          | -2         | 1955                     |     |                   |
| Freq. ERROR vs. Temp.   |            |                     |            |                          |     |                   |
| 3.85                    | -30        | 781.999994          | -6         | 1955                     |     |                   |
| 3.85                    | -20        | 781.999994          | -6         | 1955                     |     |                   |
| 3.85                    | -10        | 782.000007          | 6.99999998 | 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 710 MHz 10M QPSK CH 23790 |            |             |            |                          |
| Power Supply Vdc                                               | Temp. (°C) | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| <b>Freq. ERROR vs. VOLTAGE</b>                                 |            |             |            |                          |
| 4.43                                                           | 25         | 710.000004  | 3.99999999 | 1775                     |
| 3.85                                                           | 25         | 709.999991  | -9         | 1775                     |
| 3.27                                                           | 25         | 709.999995  | -5         | 1775                     |
| 3<br>(End Point)                                               | 25         | 710.000001  | 1          | 1775                     |
| <b>Freq. ERROR vs. Temp.</b>                                   |            |             |            |                          |
| 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. (°C) | 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<br>(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         | 0.99999988 | 6488                     |     |                   |
| 3.85                    | -10        | 2595.000004         | 3.99999999 | 6488                     |     |                   |
| 3.85                    | 0          | 2595.000009         | 8.99999986 | 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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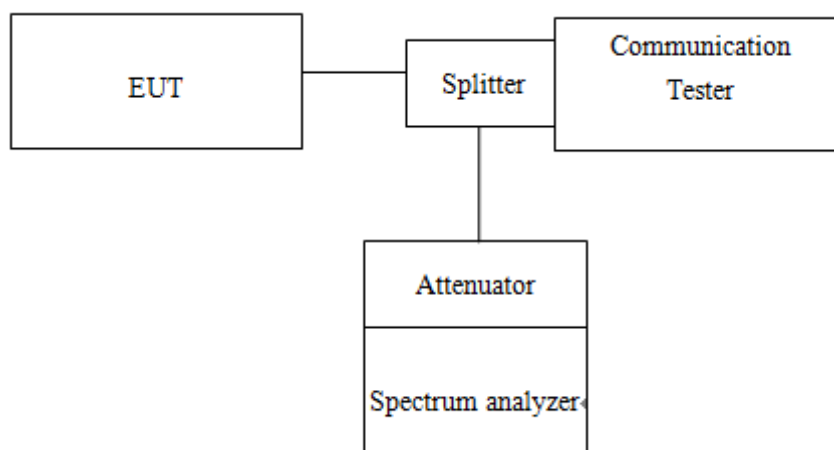
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## 12. PEAK TO AVERAGE RATIO

### 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  $\geq$  signal's occupied bandwidth; & internal = 1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

### 12.4. Measurement Equipment Used

| EQUIPMENT TYPE              | MFR          | MODEL NUMBER | SERIAL NUMBER  | 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-LAMBDA    | 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.<br>(MHz) | CH  | Peak-to-Average Ratio (dB) |             |
|----------------|-----|----------------------------|-------------|
|                |     | GSM<br>850                 | GPRS<br>850 |
| 824.2          | 128 | 10.18                      | 9.72        |
| 836.6          | 190 | 10.39                      | 9.56        |
| 848.8          | 251 | 9.62                       | 9.81        |

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

| Freq.<br>(MHz) | CH   | Peak-to-Average Ratio (dB) |             |             |
|----------------|------|----------------------------|-------------|-------------|
|                |      | WCDMA<br>II                | HSDPA<br>II | HSUPA<br>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        |

| Freq.<br>(MHz) | CH   | Peak-to-Average Ratio (dB) |             |             |
|----------------|------|----------------------------|-------------|-------------|
|                |      | WCDMA<br>IV                | HSDPA<br>IV | HSUPA<br>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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| Freq.<br>(MHz) | CH   | Peak-to-Average Ratio (dB) |            |            |
|----------------|------|----------------------------|------------|------------|
|                |      | WCDMA<br>V                 | HSDPA<br>V | HSUPA<br>V |
| 826.4          | 4132 | 3.08                       | 3.08       | 3.10       |
| 836.6          | 4183 | 3.07                       | 3.04       | 3.05       |
| 846.6          | 4233 | 3.08                       | 3.07       | 3.07       |

| LTE BAND 2                |       |           |       |                         |       |           |       |
|---------------------------|-------|-----------|-------|-------------------------|-------|-----------|-------|
| Channel bandwidth: 1.4MHz |       |           |       | Channel bandwidth: 3MHz |       |           |       |
| Freq.<br>(MHz)            | CH    | PAPR (dB) |       | Freq.<br>(MHz)          | CH    | PAPR (dB) |       |
|                           |       | 64QAM     | Limit |                         |       | 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              |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 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               |       |           |       |                          |       |           |       |
|--------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 15MHz |       |           |       | Channel bandwidth: 20MHz |       |           |       |
| Freq.<br>(MHz)           | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                          |       | 64QAM     | Limit |                          |       | 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 |       |           |       |
| Freq.<br>(MHz)            | CH    | PAPR (dB) |       | Freq.<br>(MHz)          | CH    | PAPR (dB) |       |
|                           |       | 64QAM     | Limit |                         |       | 64QAM     | Limit |
| 1710.7                    | 19957 | 5.86      | 13    | 1711.5                  | 19965 | 5.86      | 13    |
| 1732.5                    | 20175 | 6.24      | 13    | 1732.5                  | 20175 | 6.16      | 13    |
| 1754.3                    | 20393 | 5.83      | 13    | 1753.5                  | 20385 | 5.85      | 13    |

| LTE BAND 4              |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 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               |       |           |       |                          |       |           |       |
|--------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 15MHz |       |           |       | Channel bandwidth: 20MHz |       |           |       |
| Freq.<br>(MHz)           | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                          |       | 64QAM     | Limit |                          |       | 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                |       |           |       |                         |       |           |       |
|---------------------------|-------|-----------|-------|-------------------------|-------|-----------|-------|
| Channel bandwidth: 1.4MHz |       |           |       | Channel bandwidth: 3MHz |       |           |       |
| Freq.<br>(MHz)            | CH    | PAPR (dB) |       | Freq.<br>(MHz)          | CH    | PAPR (dB) |       |
|                           |       | 64QAM     | Limit |                         |       | 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 |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 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               |       |           |       |                         |       |           |       |
|---------------------------|-------|-----------|-------|-------------------------|-------|-----------|-------|
| Channel bandwidth: 1.4MHz |       |           |       | Channel bandwidth: 3MHz |       |           |       |
| Freq.<br>(MHz)            | CH    | PAPR (dB) |       | Freq.<br>(MHz)          | CH    | PAPR (dB) |       |
|                           |       | 64QAM     | Limit |                         |       | 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             |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 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             |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 64QAM     | Limit |
| 779.5                   | 23205 | 6.06      | 13    | 782.0                    | 23230 | 6.04      | 13    |
| 782.0                   | 23230 | 6.00      | 13    |                          |       |           |       |
| 784.5                   | 23255 | 5.99      | 13    |                          |       |           |       |

| LTE BAND 17             |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 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             |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 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.<br>(MHz)           | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                          |       | 64QAM     | Limit |                          |       | 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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## Measurement Results:

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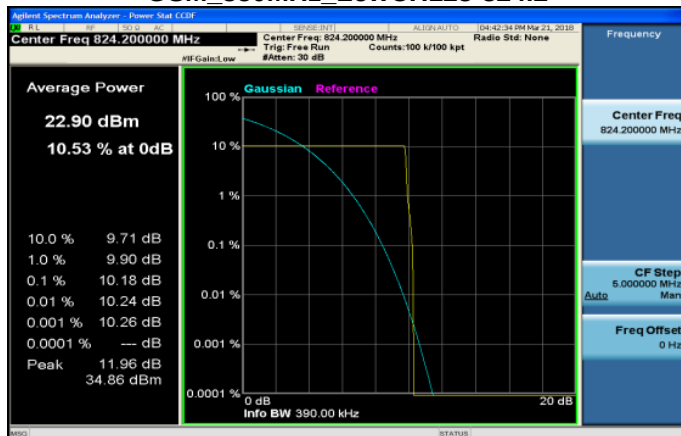
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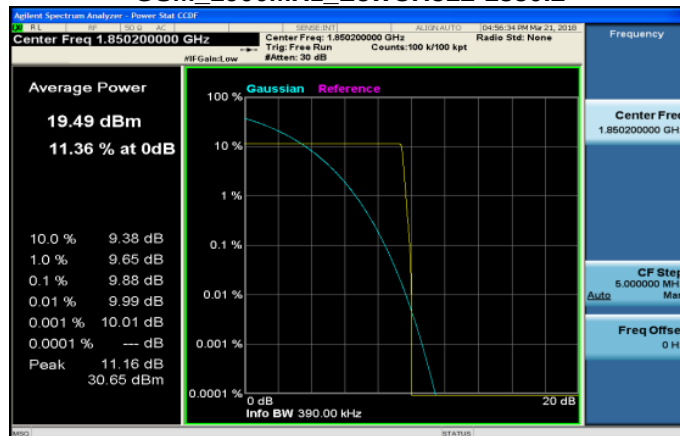
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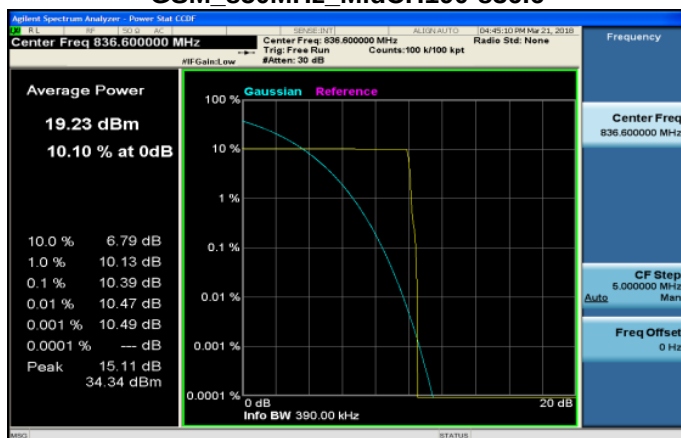
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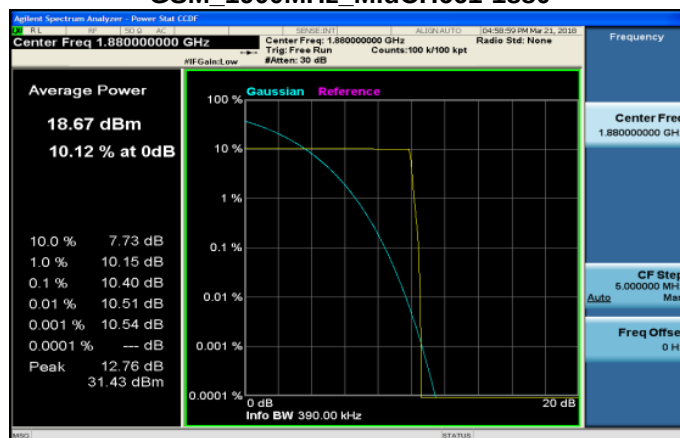
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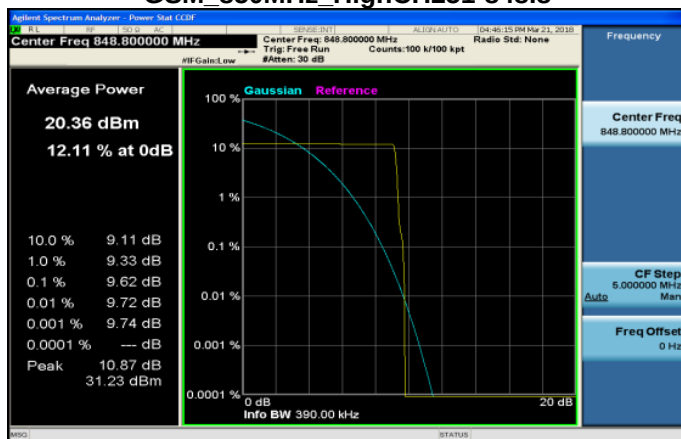
**GSM\_850MHz\_MidCH190-836.6**



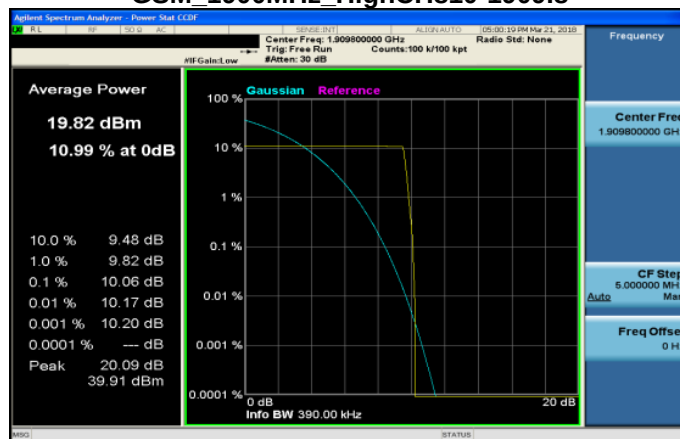
**GSM\_1900MHz\_MidCH661-1880**



**GSM\_850MHz\_HighCH251-848.8**



**GSM\_1900MHz\_HighCH810-1909.8**



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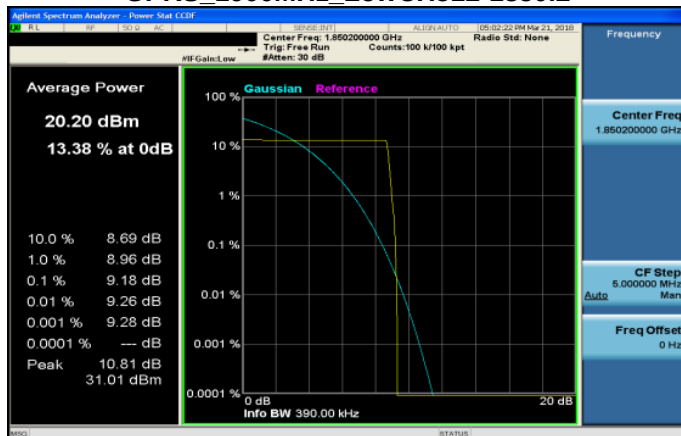
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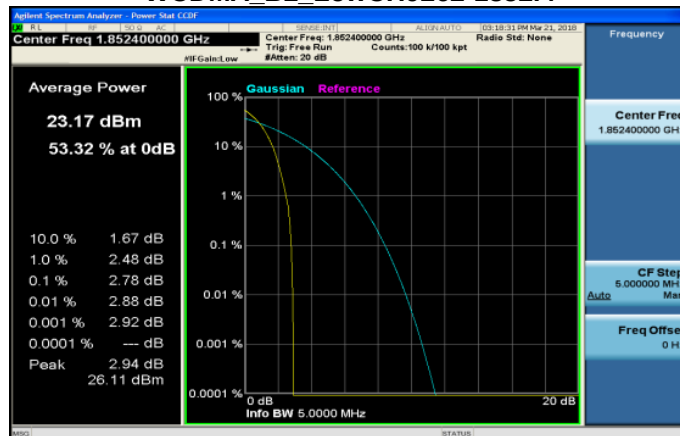
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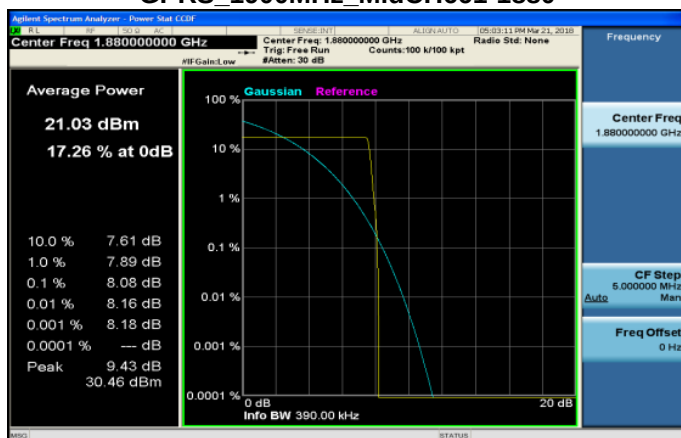
GPRS\_1900MHz\_LowCH512-1850.2



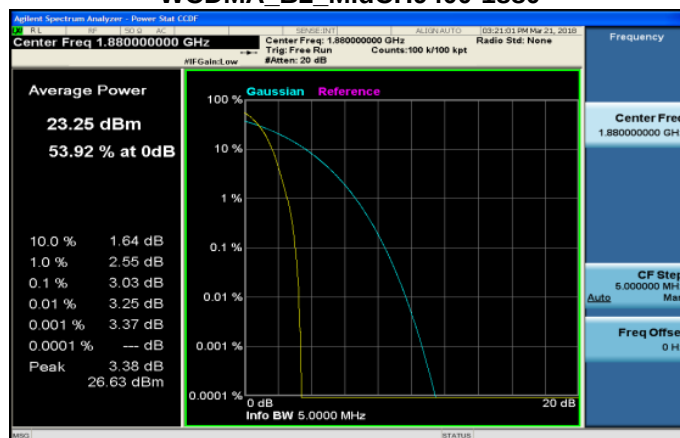
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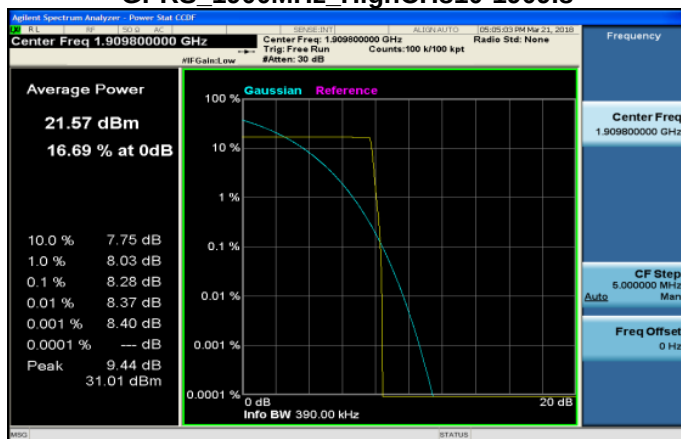
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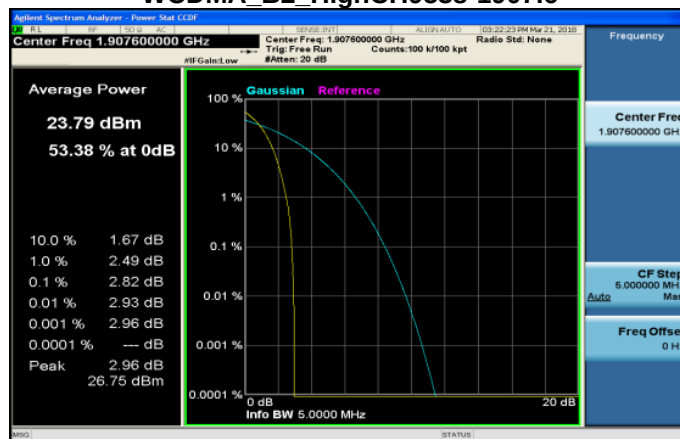
WCDMA\_B2\_MidCH9400-1880



GPRS\_1900MHz\_HighCH810-1909.8



WCDMA\_B2\_HighCH9538-1907.6



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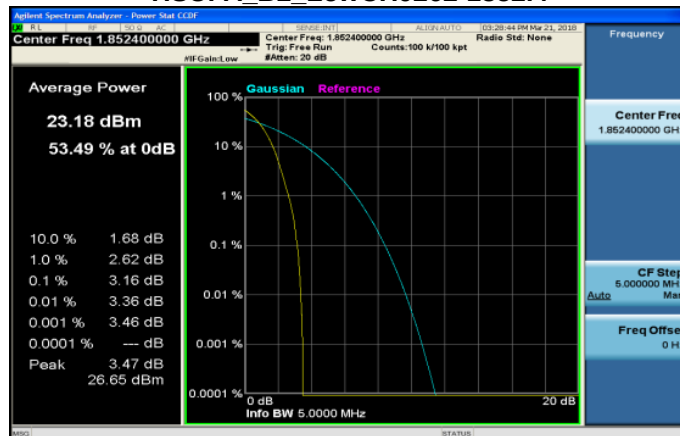
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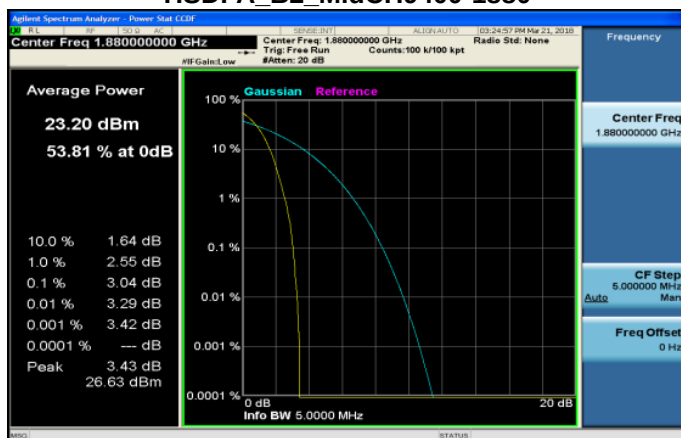
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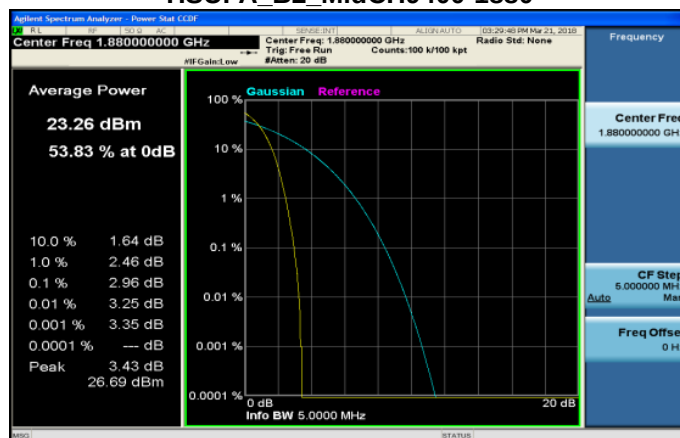
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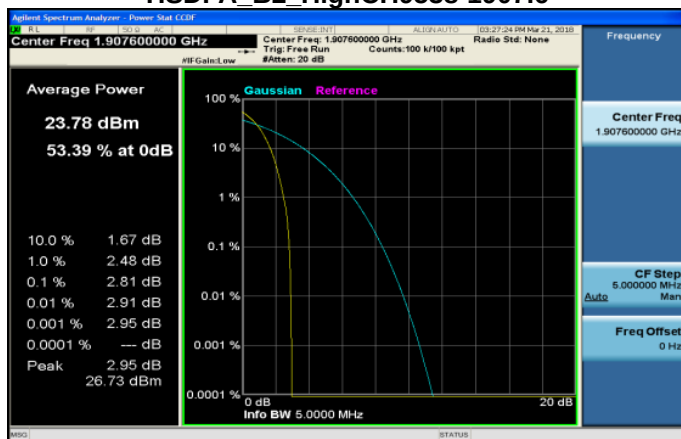
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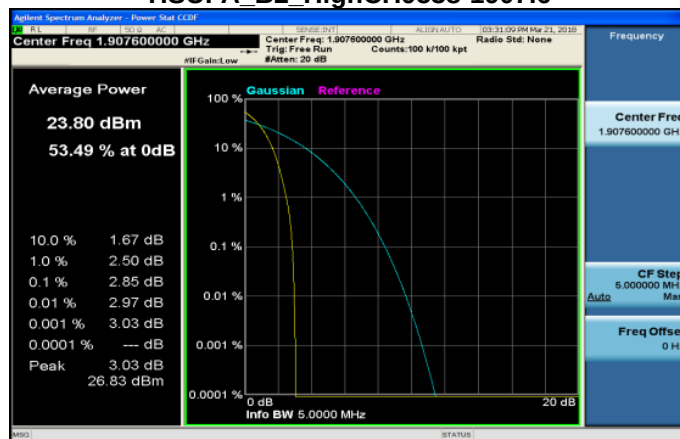
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HSDPA B2 HighCH9538-1907.6



HSUPA B2 HighCH9538-1907.6



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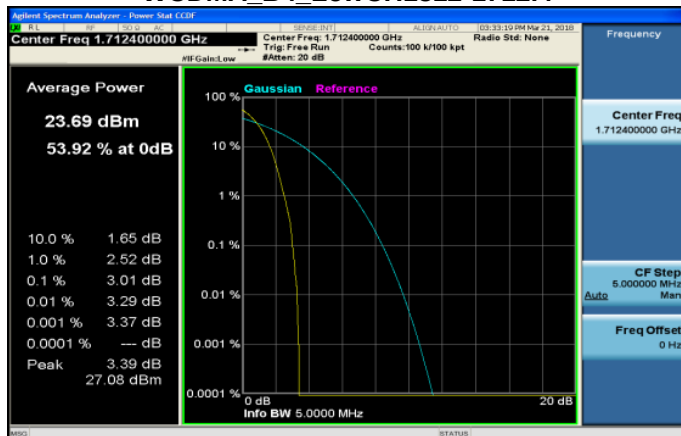
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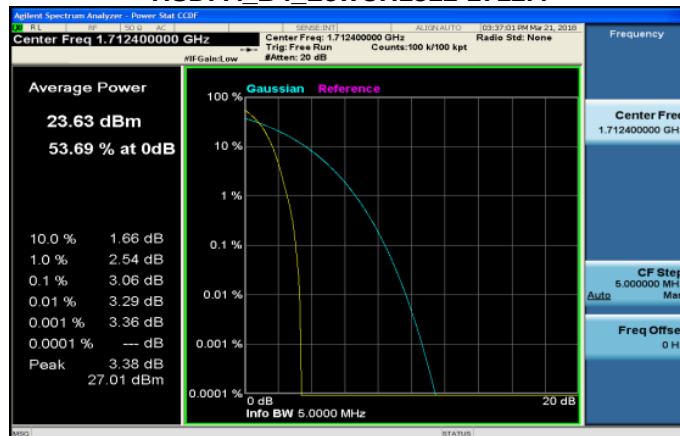
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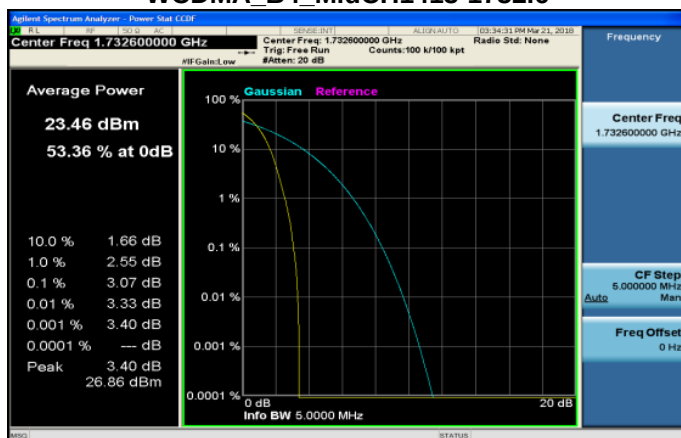
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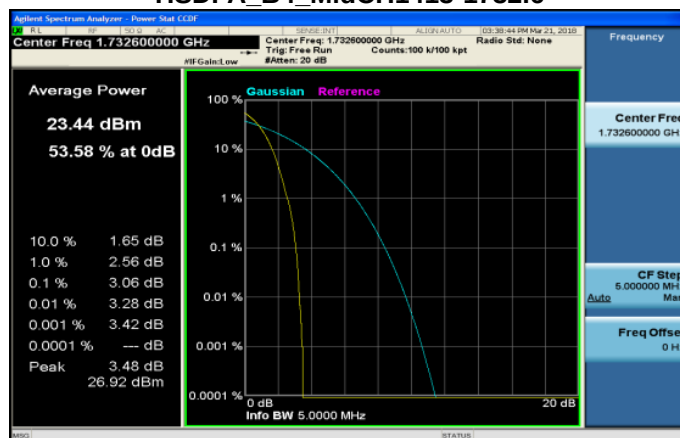
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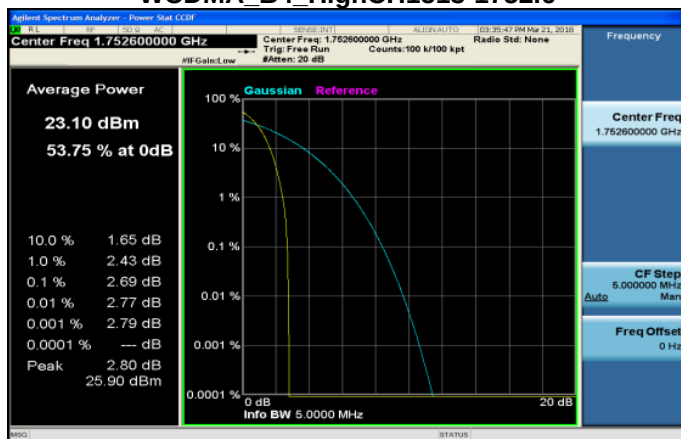
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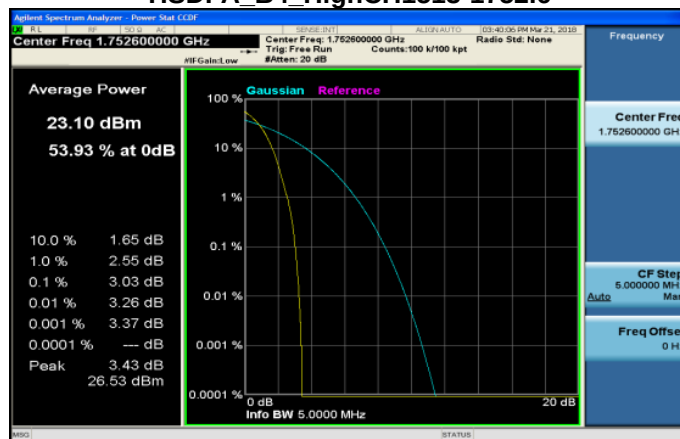
## HSDPA\_B4\_MidCH1413-1732.6



## WCDMA\_B4\_HighCH1513-1752.6



## HSDPA\_B4\_HighCH1513-1752.6



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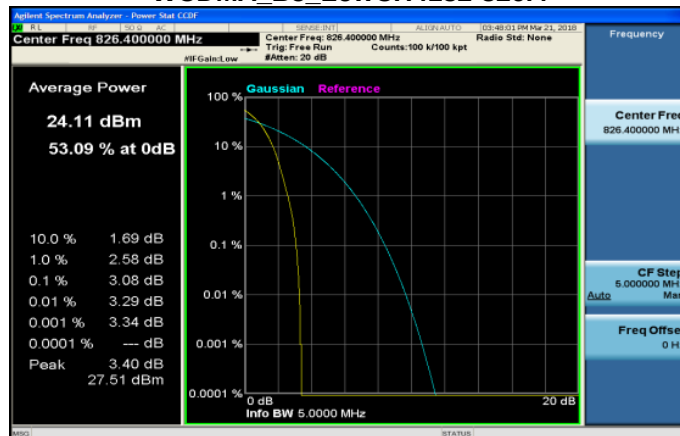
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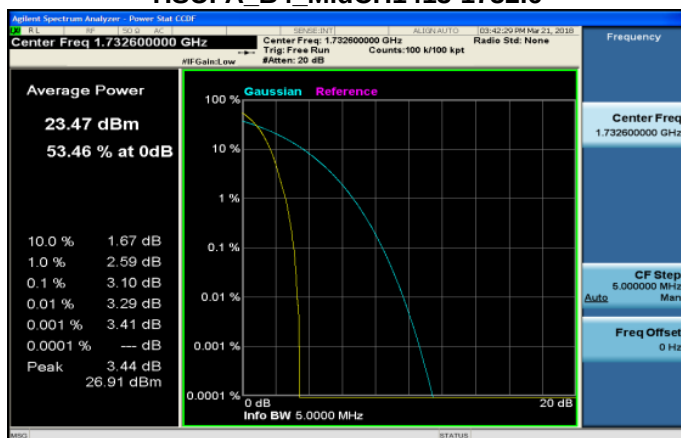
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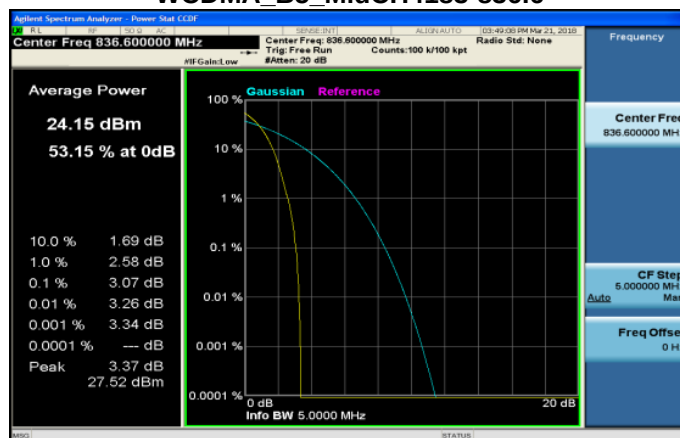
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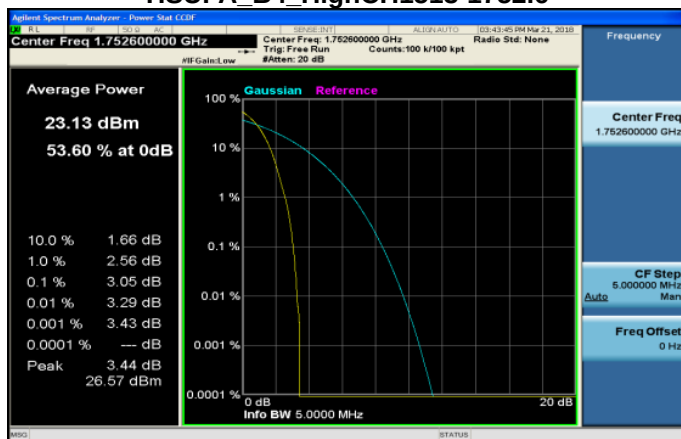
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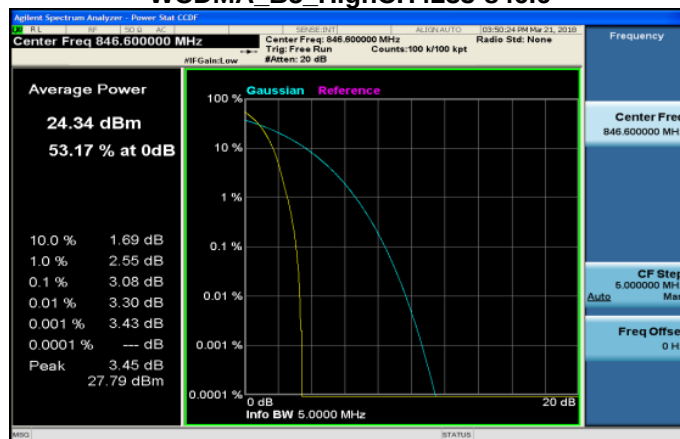
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HSUPA\_B4\_HighCH1513-1752.6



WCDMA\_B5\_HighCH4233-846.6



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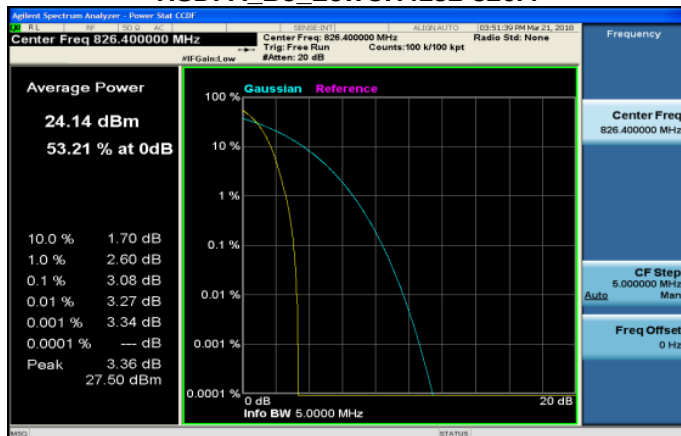
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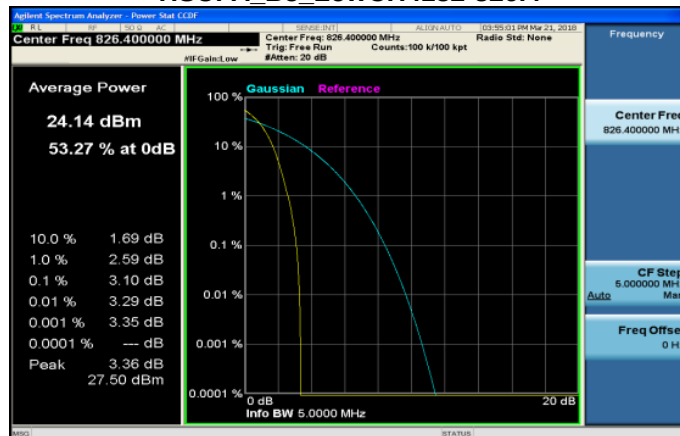
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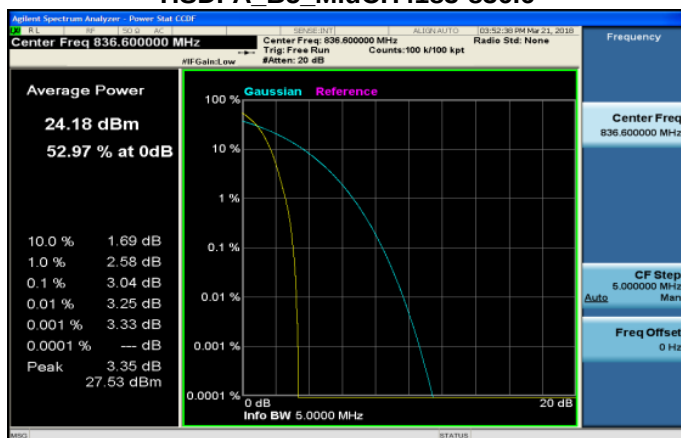
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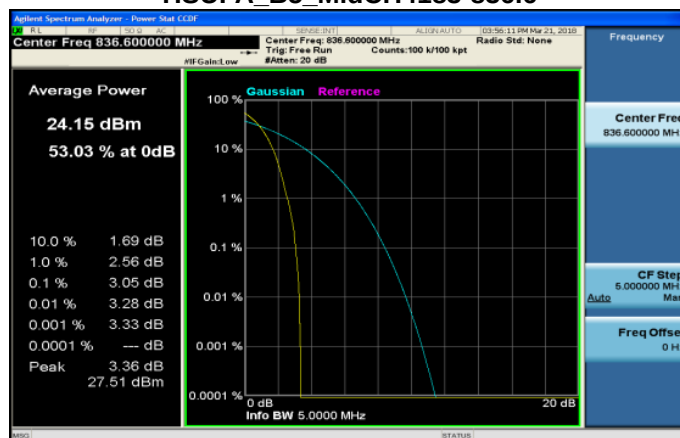
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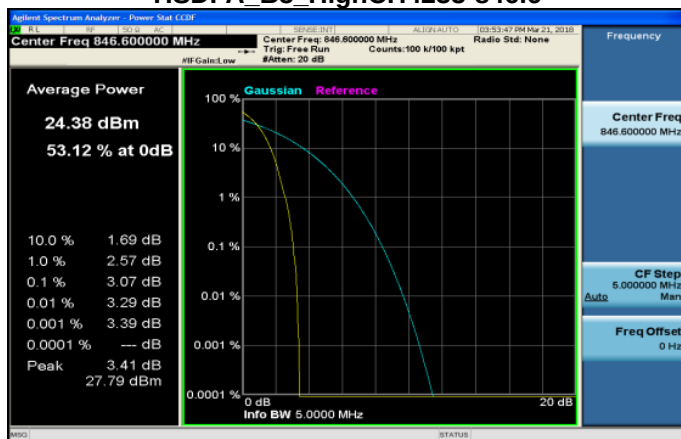
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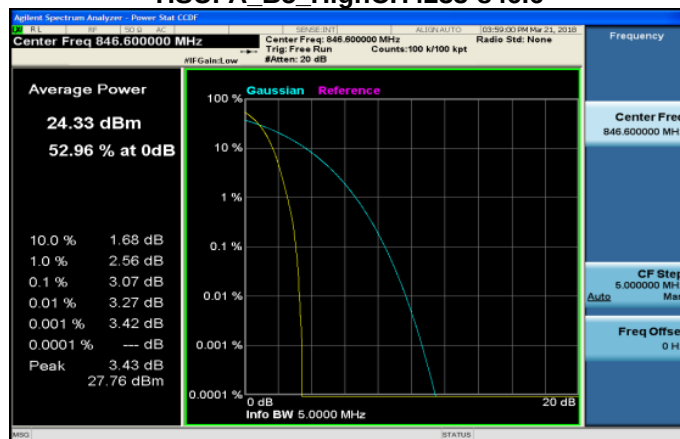
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HSDPA B5\_HighCH4233-846.6



HSUPA B5\_HighCH4233-846.6



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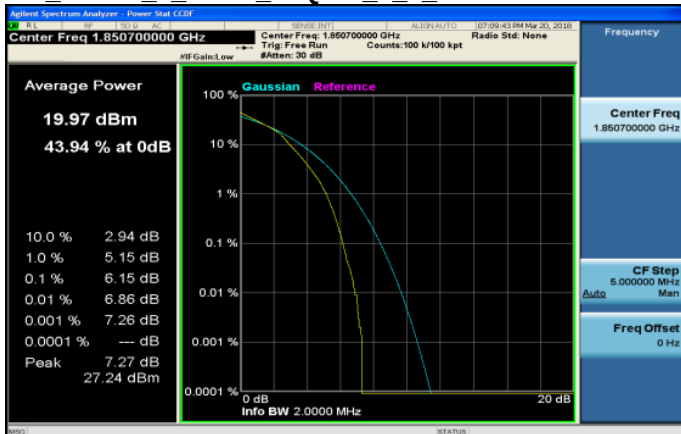
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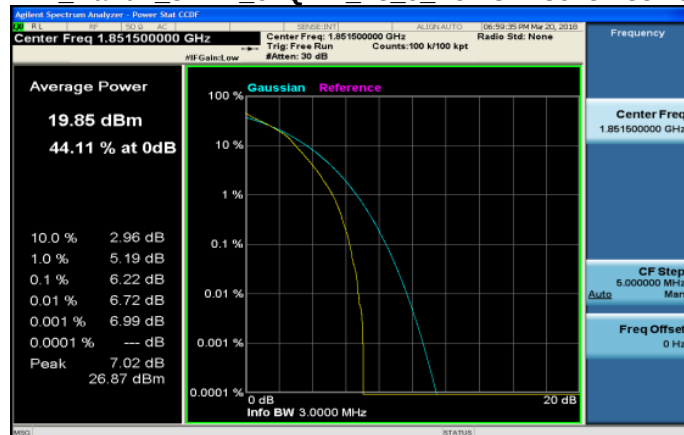
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## LTE\_Band2\_1\_4MHz\_64QAM\_6\_0\_LowCH18607-1850.7



## LTE\_Band2\_3MHz\_64QAM\_15\_0\_LowCH18615-1851.5



## LTE\_Band2\_1\_4MHz\_64QAM\_6\_0\_MidCH18900-1880



## LTE\_Band2\_3MHz\_64QAM\_15\_0\_MidCH18900-1880



## LTE\_Band2\_1\_4MHz\_64QAM\_6\_0\_HighCH19193-1909.

3



## LTE\_Band2\_3MHz\_64QAM\_15\_0\_HighCH19185-1908.5



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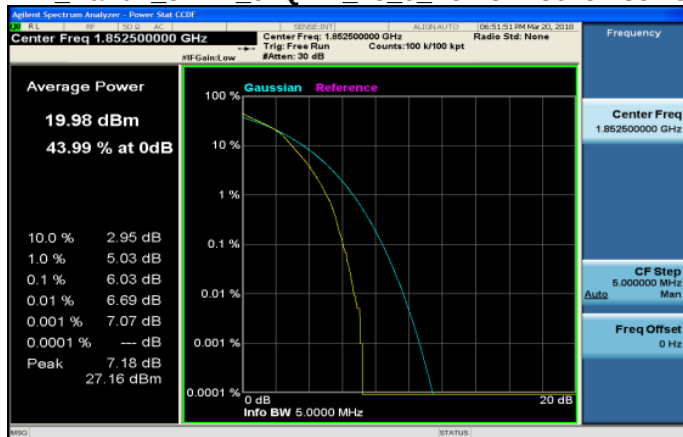
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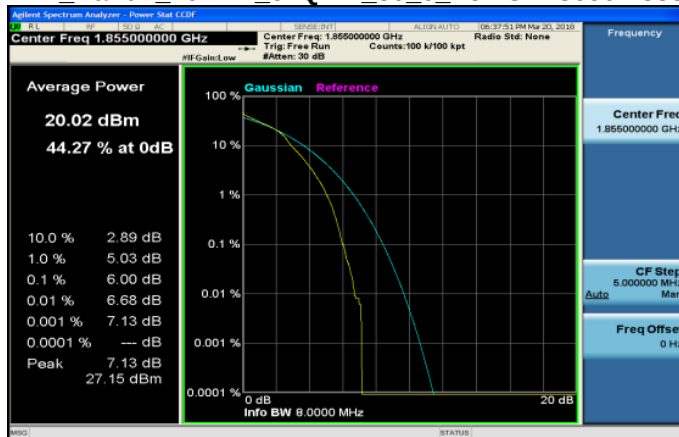
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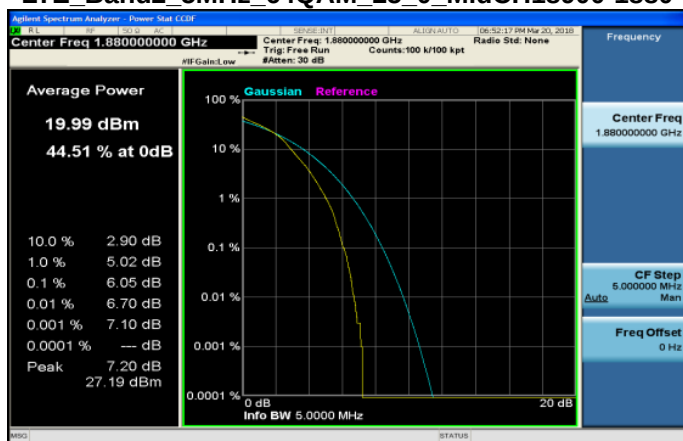
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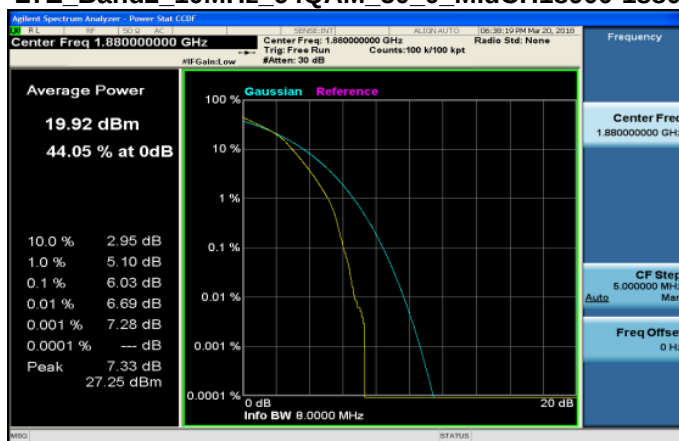
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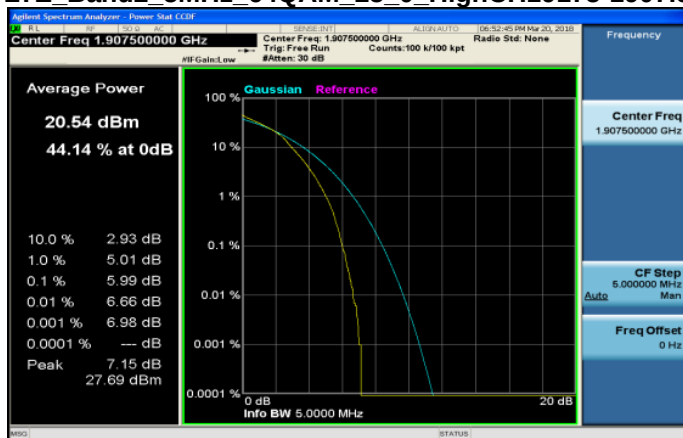
## LTE\_Band2\_5MHz\_64QAM\_25\_0\_MidCH18900-1880



## 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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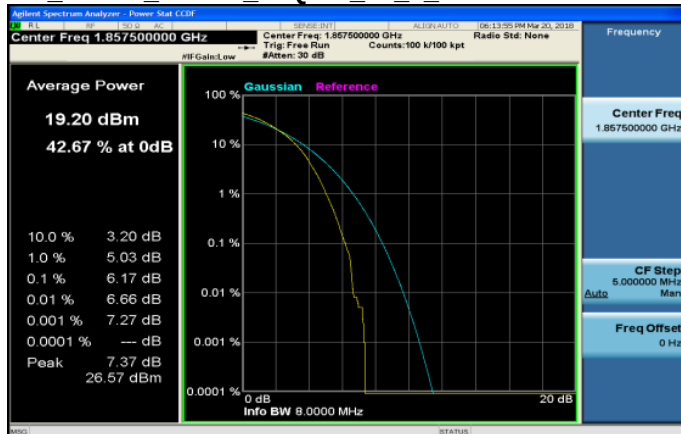
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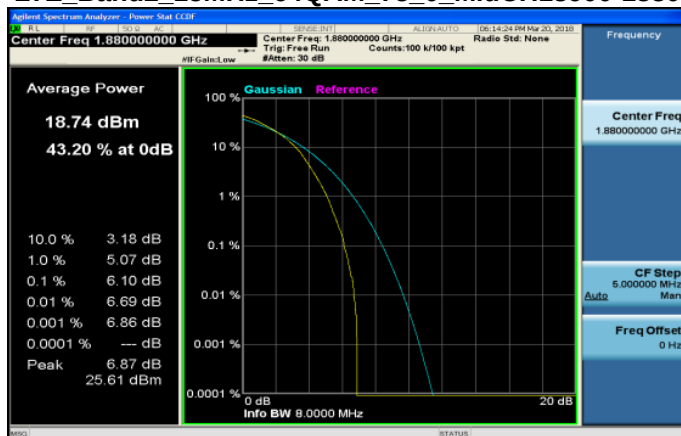
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LTE\_Band2\_15MHz\_64QAM\_75\_0\_MidCH18900-1880

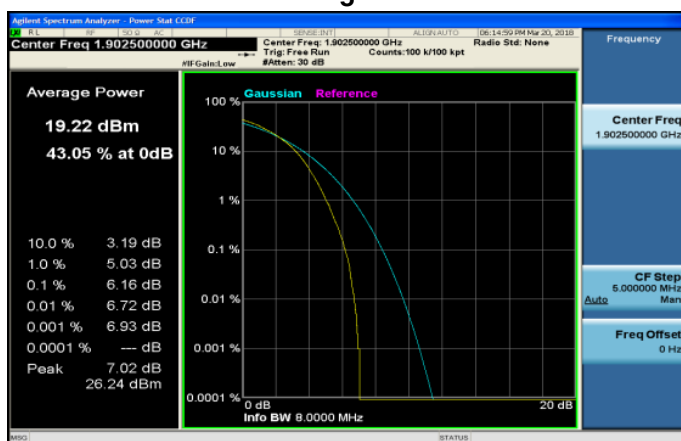


LTE\_Band2\_20MHz\_64QAM\_100\_0\_MidCH18900-1880



LTE\_Band2\_15MHz\_64QAM\_75\_0\_HighCH19125-1902.

5



LTE\_Band2\_20MHz\_64QAM\_100\_0\_HighCH19100-1900



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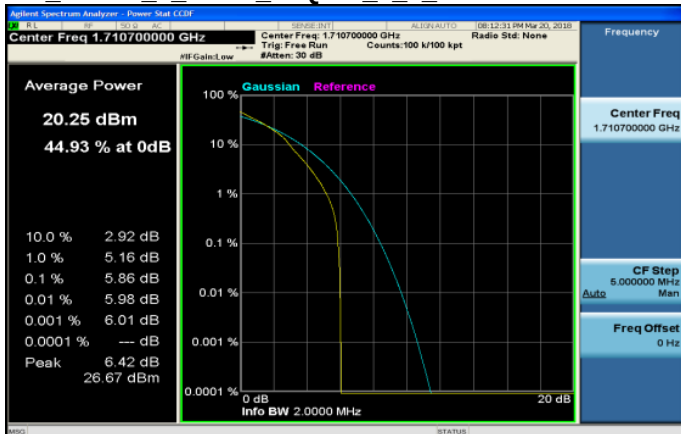
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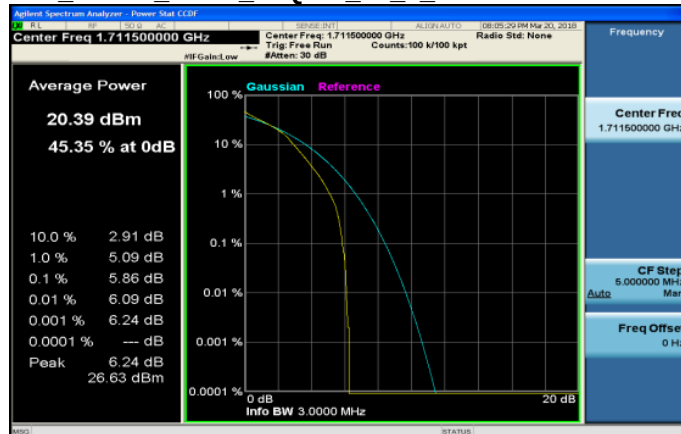
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LTE\_Band4\_1\_4MHz\_64QAM\_6\_0\_LowCH19957-1710.7



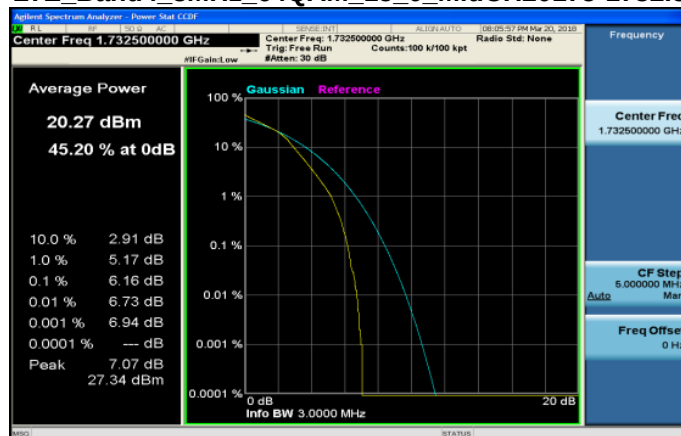
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LTE\_Band4\_1\_4MHz\_64QAM\_6\_0\_MidCH20175-1732.5

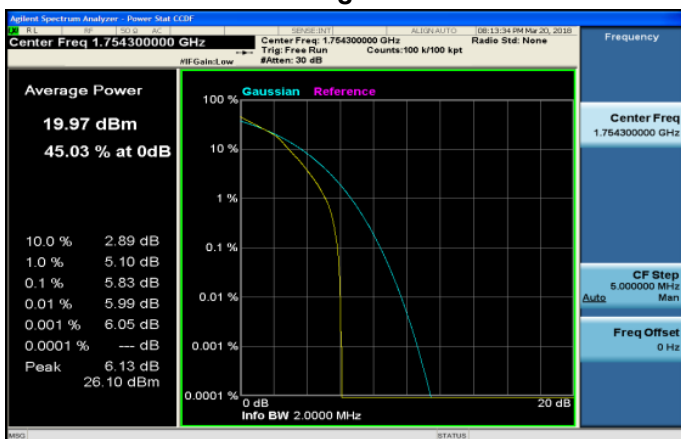


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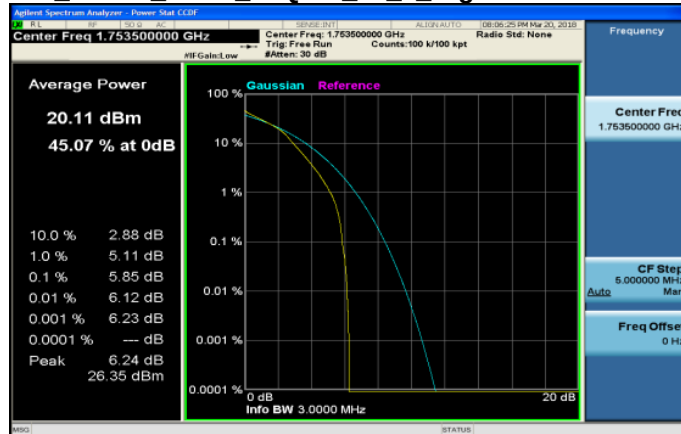


LTE\_Band4\_1\_4MHz\_64QAM\_6\_0\_HighCH20393-1754.

3



LTE\_Band4\_3MHz\_64QAM\_15\_0\_HighCH20385-1753.5



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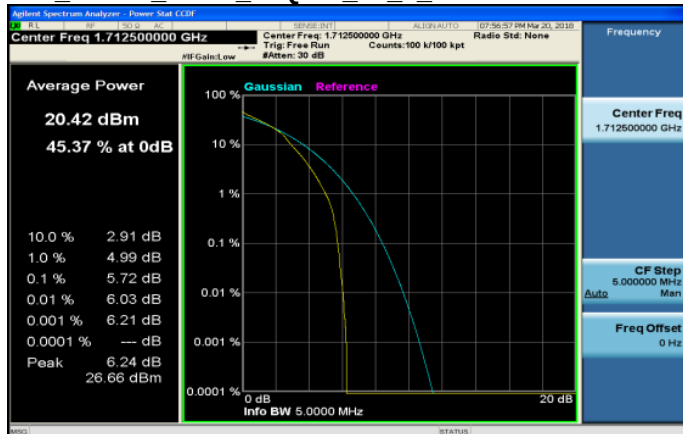
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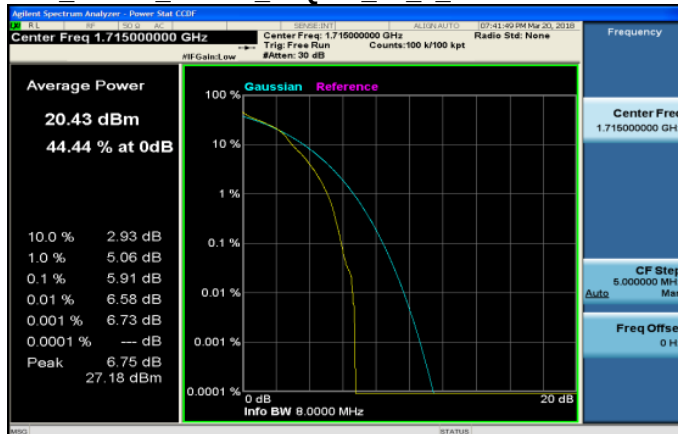
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## LTE\_Band4\_5MHz\_64QAM\_25\_0\_LowCH19975-1712.5



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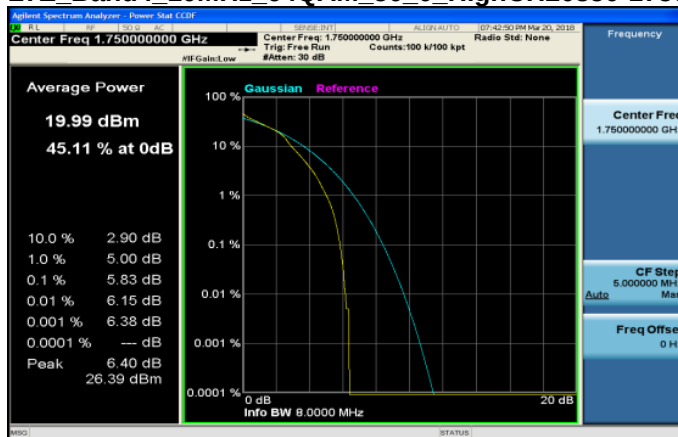
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## LTE\_Band4\_5MHz\_64QAM\_25\_0\_HighCH20375-1752.5



## LTE\_Band4\_10MHz\_64QAM\_50\_0\_HighCH20350-1750



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