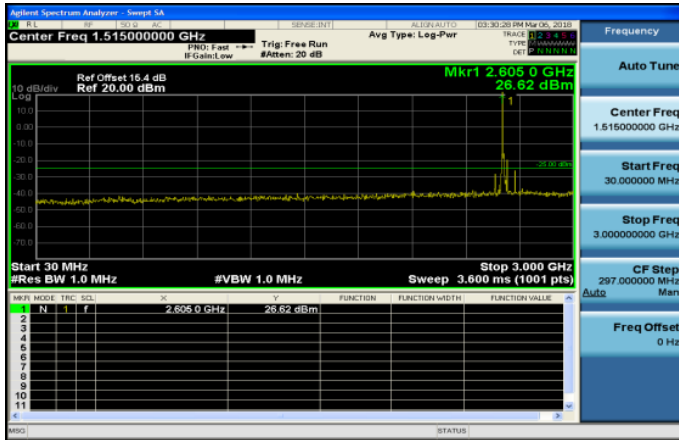
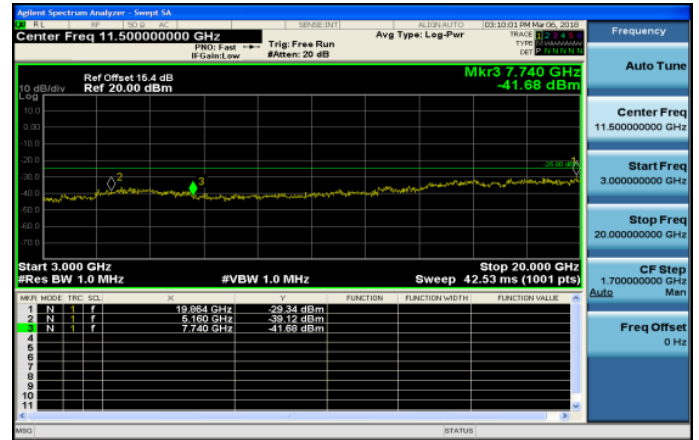


30MHz~3GHz\_Band38\_15MHz\_QPSK\_1\_0\_HighCH3817  
5-2612.5



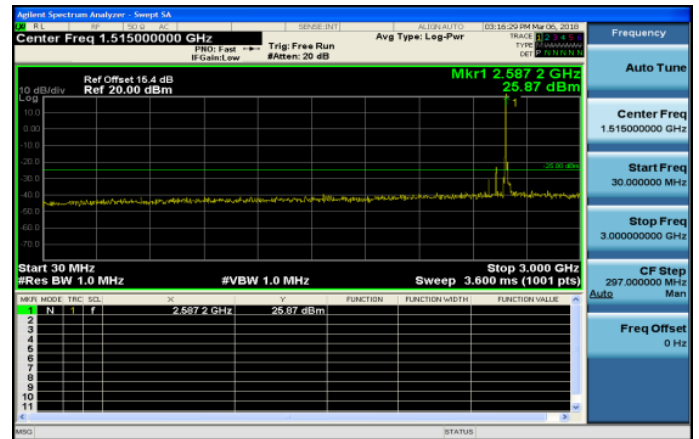
3GHz~10GHz\_Band38\_20MHz\_QPSK\_1\_0\_LowCH37850  
-2580



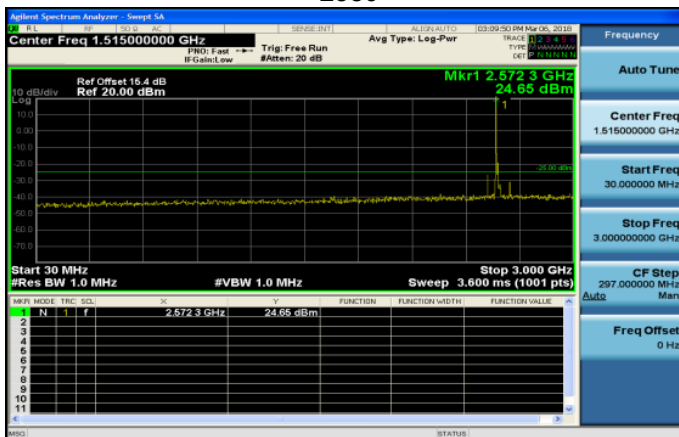
3GHz~10GHz\_Band38\_15MHz\_QPSK\_1\_0\_HighCH3817  
5-2612.5



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



30MHz~3GHz\_Band38\_20MHz\_QPSK\_1\_0\_LowCH37850  
-2580



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



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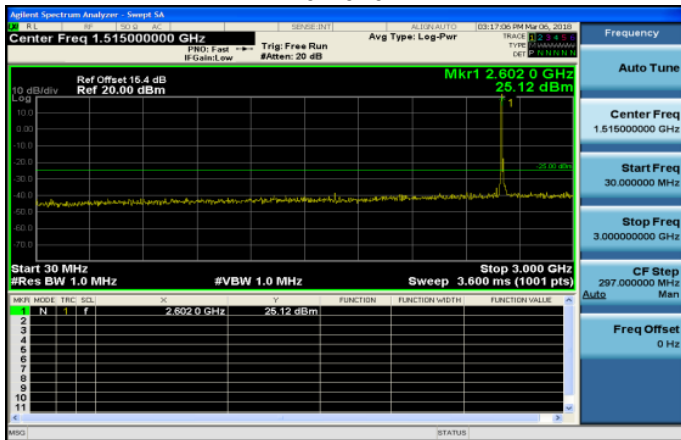
t (886-2) 2299-3279

f (886-2) 2298-0488

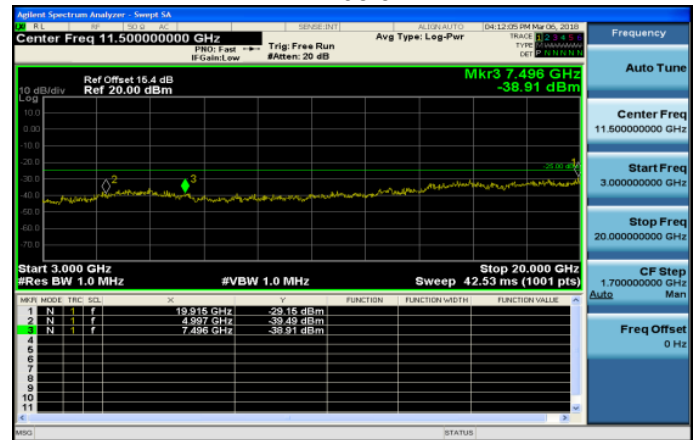
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30MHz~3GHz\_Band38\_20MHz\_QPSK\_1\_0\_HighCH3815  
0-2610



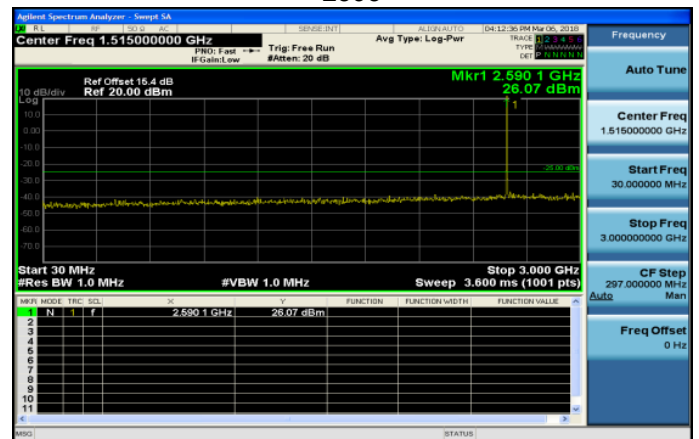
3GHz~10GHz\_Band41\_5MHz\_QPSK\_1\_0\_LowCH39675-  
2498.5



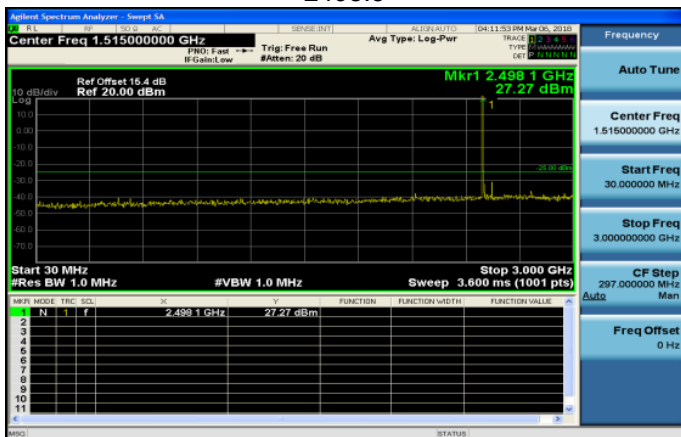
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0-2610



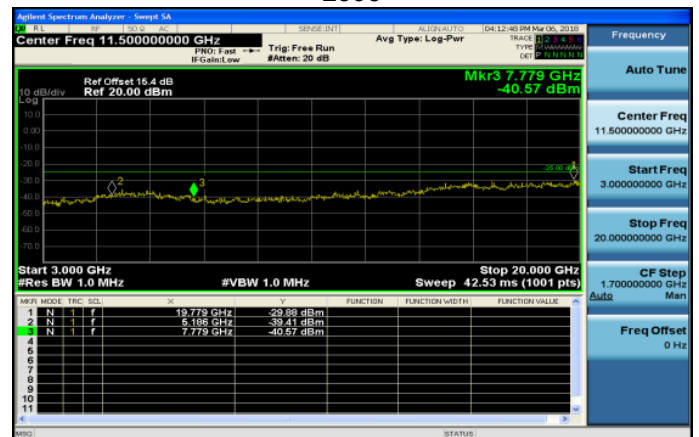
30MHz~3GHz\_Band41\_5MHz\_QPSK\_1\_0\_MidCH40620-  
2593



30MHz~3GHz\_Band41\_5MHz\_QPSK\_1\_0\_LowCH39675-  
2498.5



3GHz~10GHz\_Band41\_5MHz\_QPSK\_1\_0\_MidCH40620-  
2593



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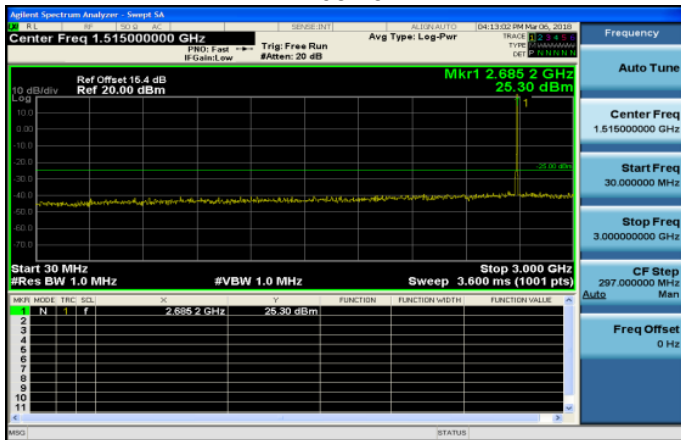
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30MHz~3GHz\_Band41\_5MHz\_QPSK\_1\_0\_HighCH41565-2687.5



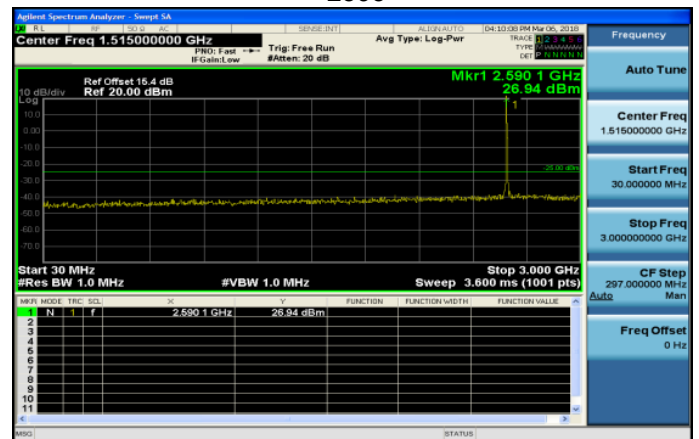
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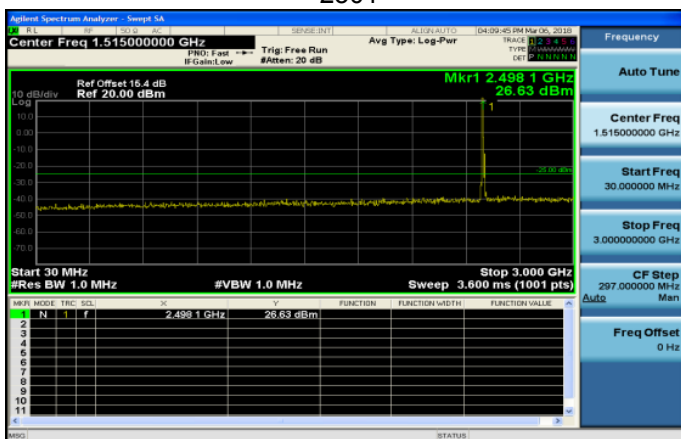
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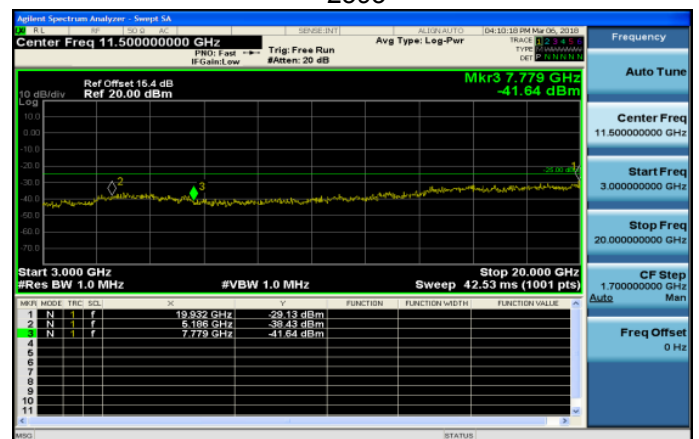
30MHz~3GHz\_Band41\_10MHz\_QPSK\_1\_0\_MidCH40620-2593



30MHz~3GHz\_Band41\_10MHz\_QPSK\_1\_0\_LowCH39700-2501



3GHz~10GHz\_Band41\_10MHz\_QPSK\_1\_0\_MidCH40620-2593



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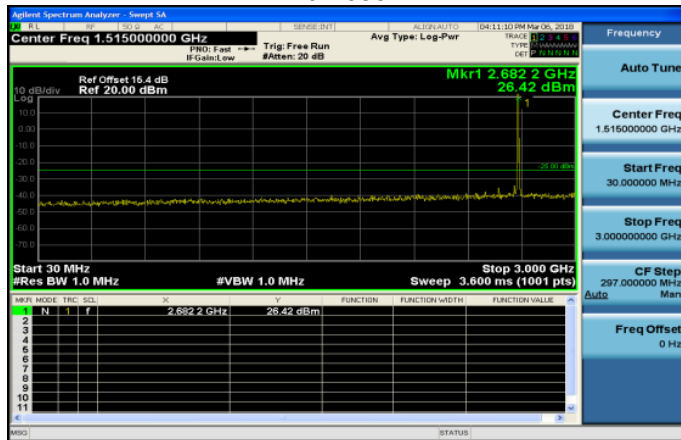
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30MHz~3GHz\_Band41\_10MHz\_QPSK\_1\_0\_HighCH4154  
0-2685



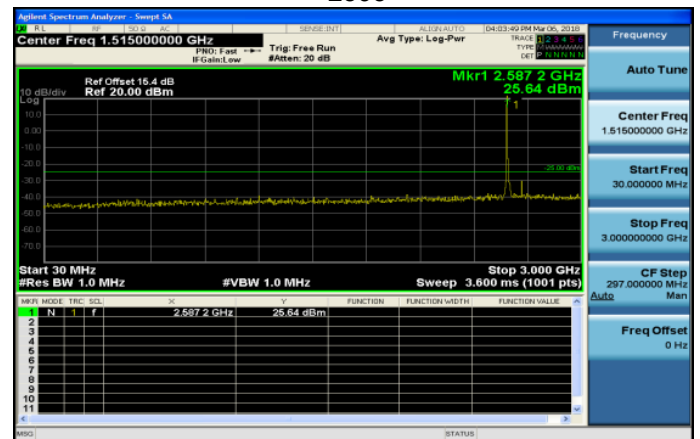
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-2503.5



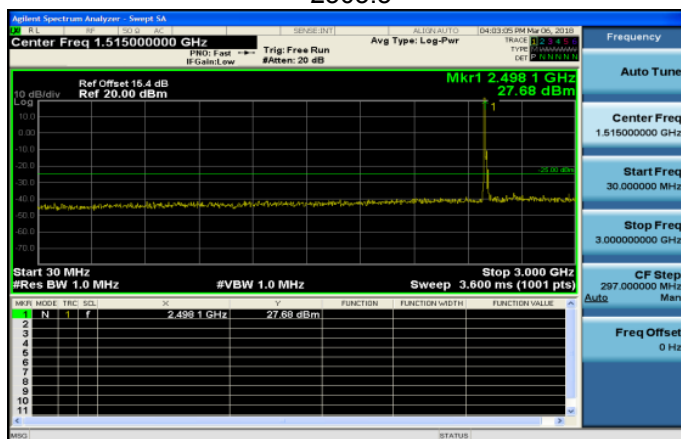
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0-2685



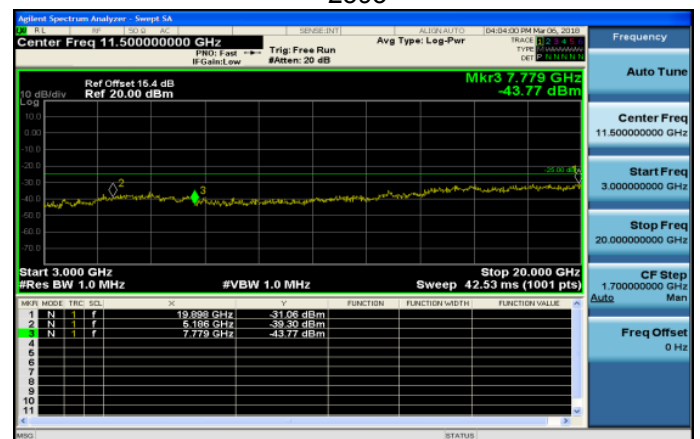
30MHz~3GHz\_Band41\_15MHz\_QPSK\_1\_0\_MidCH40620  
-2593



30MHz~3GHz\_Band41\_15MHz\_QPSK\_1\_0\_LowCH39725  
-2503.5



3GHz~10GHz\_Band41\_15MHz\_QPSK\_1\_0\_MidCH40620  
-2593



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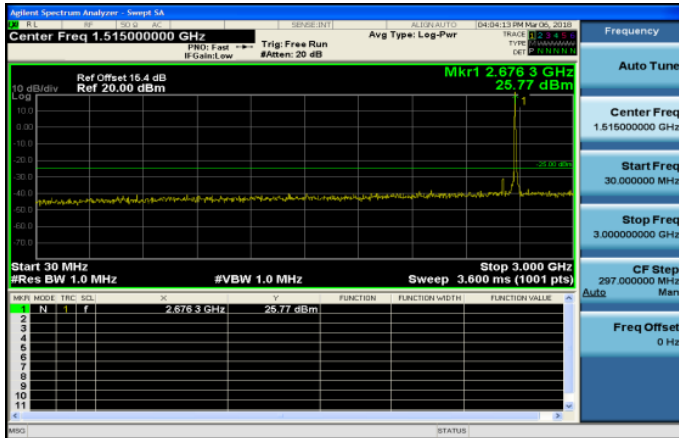
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30MHz~3GHz\_Band41\_15MHz\_QPSK\_1\_0\_HighCH4151  
5-2682.5



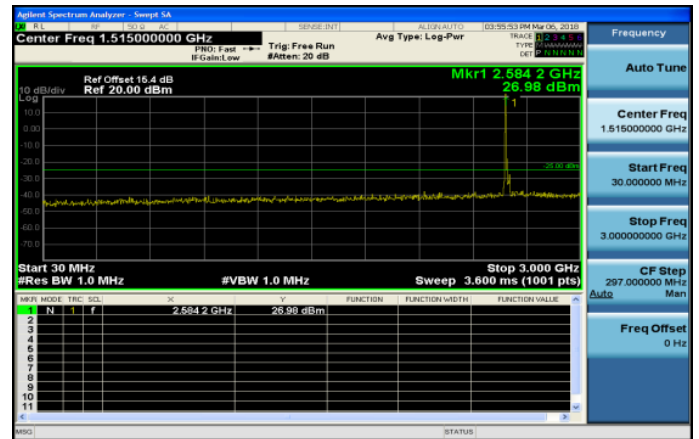
3GHz~10GHz\_Band41\_20MHz\_QPSK\_1\_0\_LowCH39750  
-2506



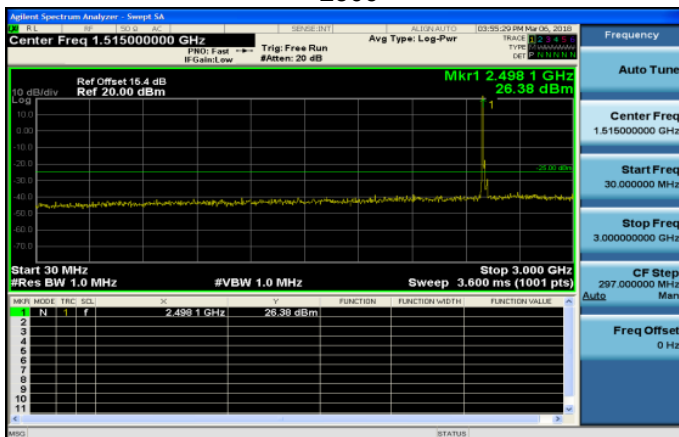
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5-2682.5



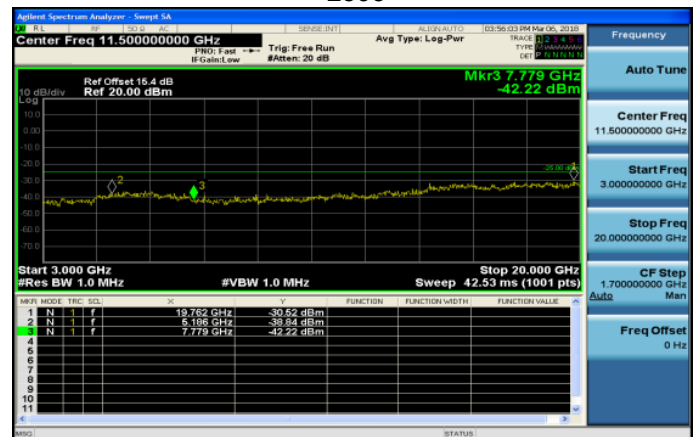
30MHz~3GHz\_Band41\_20MHz\_QPSK\_1\_0\_MidCH40620  
-2593



30MHz~3GHz\_Band41\_20MHz\_QPSK\_1\_0\_LowCH39750  
-2506



3GHz~10GHz\_Band41\_20MHz\_QPSK\_1\_0\_MidCH40620  
-2593



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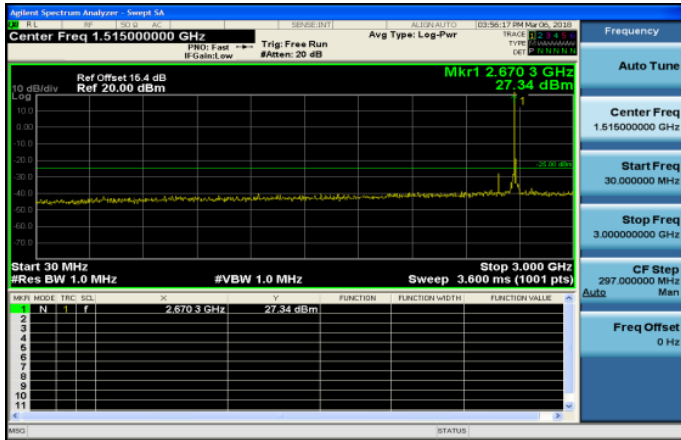
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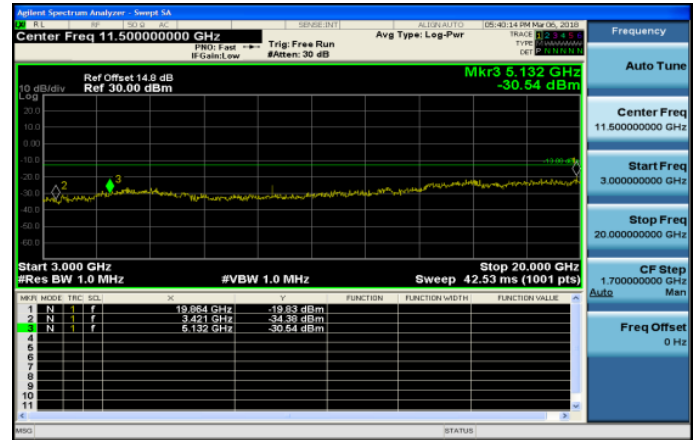
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30MHz~3GHz\_Band41\_20MHz\_QPSK\_1\_0\_HighCH4149  
0-2680



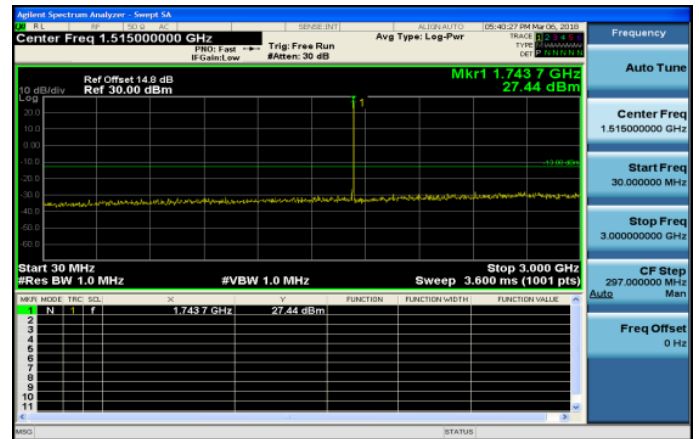
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79-1710.7



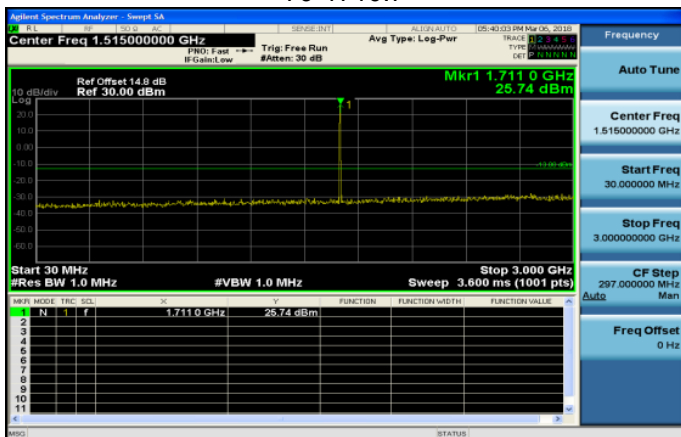
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0-2680



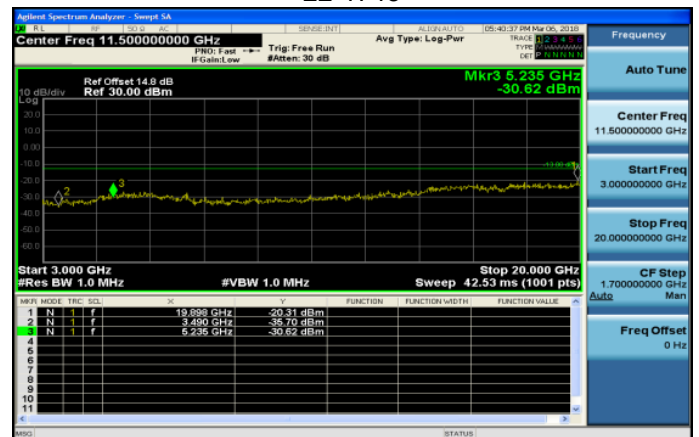
30MHz~3GHz\_Band66\_1\_4MHz\_QPSK\_1\_0\_MidCH1323  
22-1745



30MHz~3GHz\_Band66\_1\_4MHz\_QPSK\_1\_0\_LowCH1319  
79-1710.7



3GHz~10GHz\_Band66\_1\_4MHz\_QPSK\_1\_0\_MidCH1323  
22-1745



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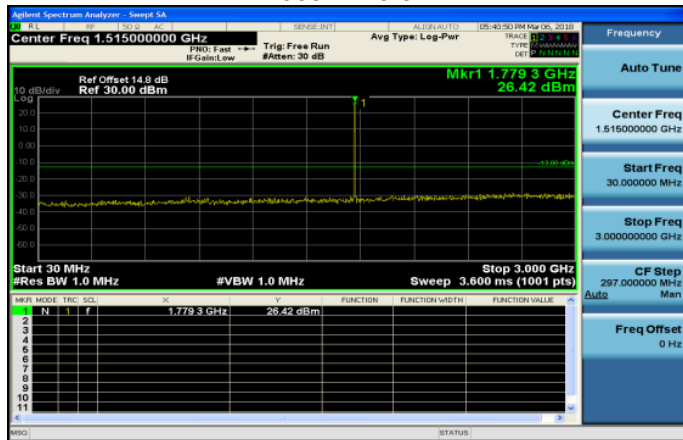
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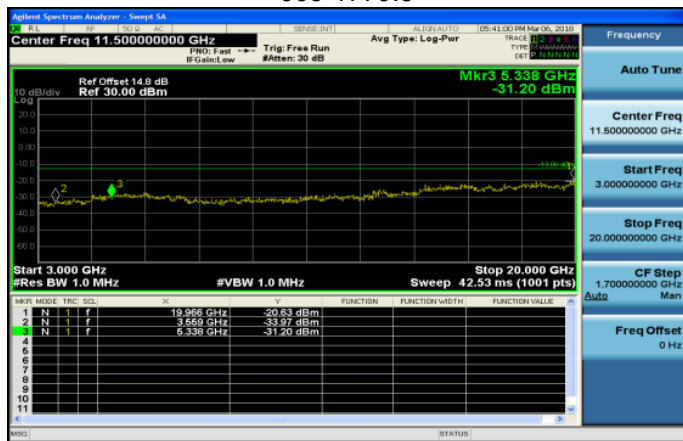
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665-1779.3



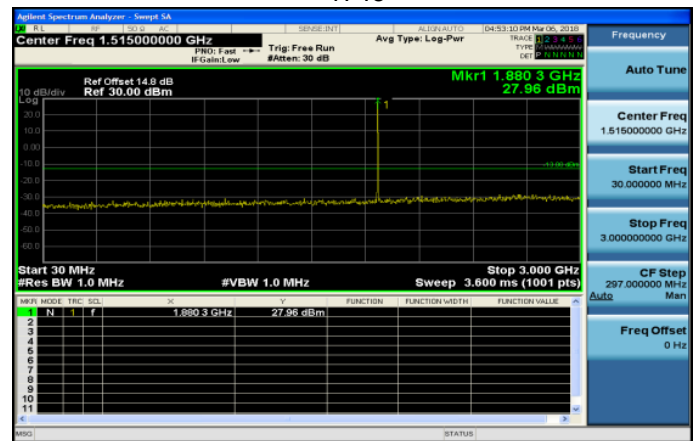
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-1711.5



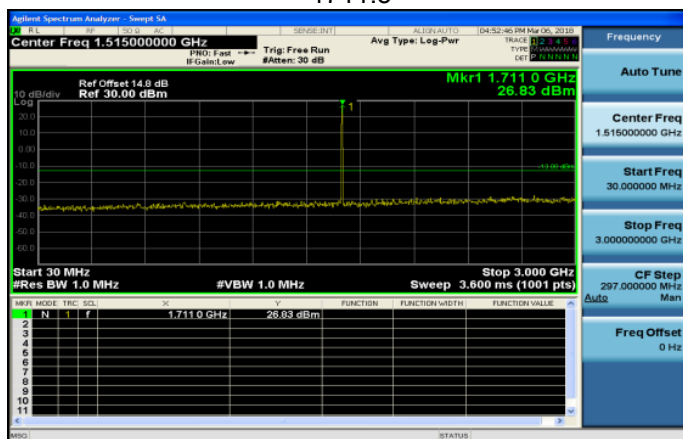
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665-1779.3



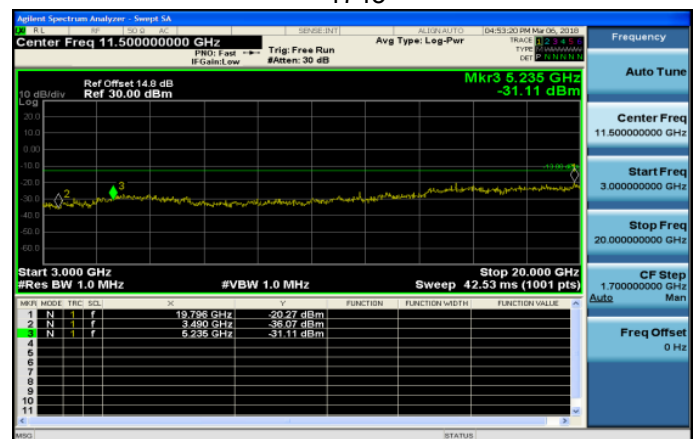
30MHz~3GHz\_Band66\_3MHz\_QPSK\_1\_0\_MidCH132322  
-1745



30MHz~3GHz\_Band66\_3MHz\_QPSK\_1\_0\_LowCH131987  
-1711.5



3GHz~10GHz\_Band66\_3MHz\_QPSK\_1\_0\_MidCH132322  
-1745



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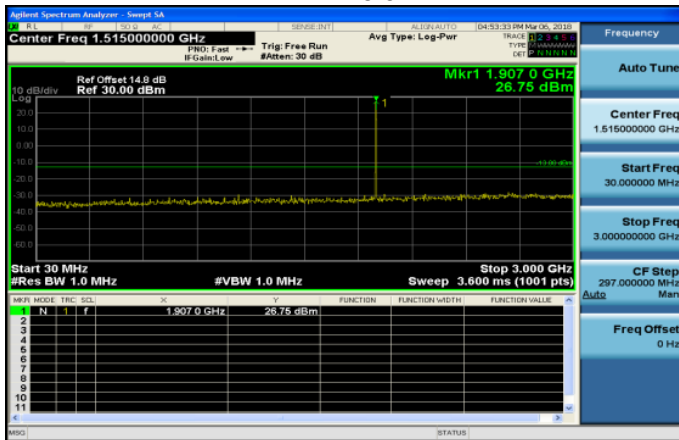
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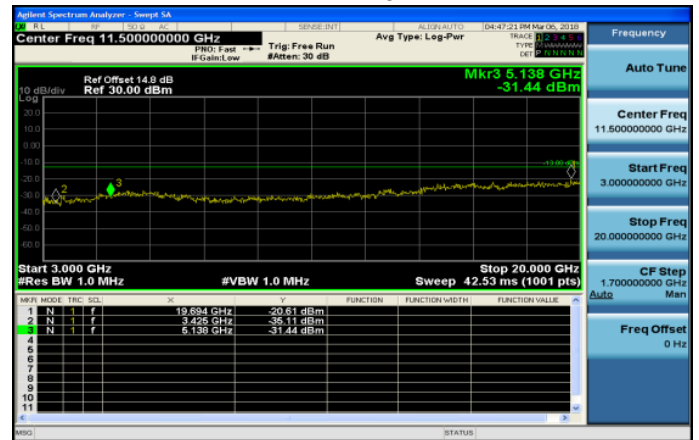
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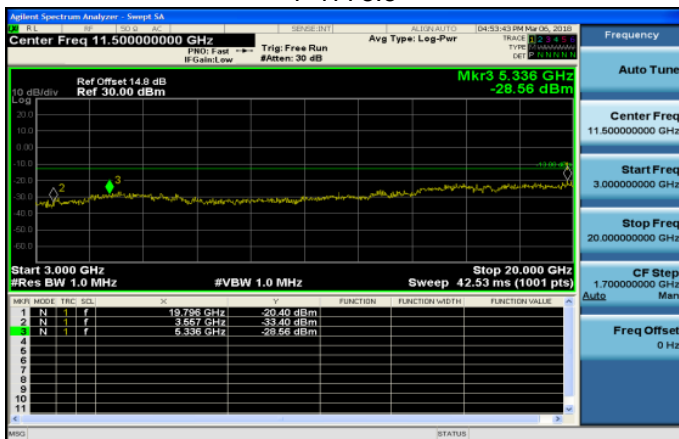
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7-1778.5



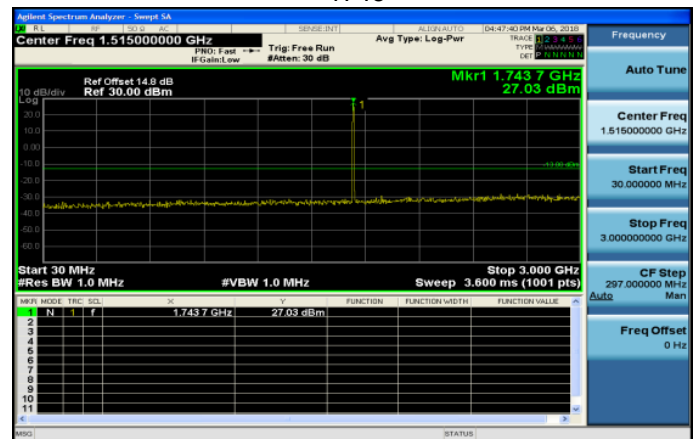
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-1712.5



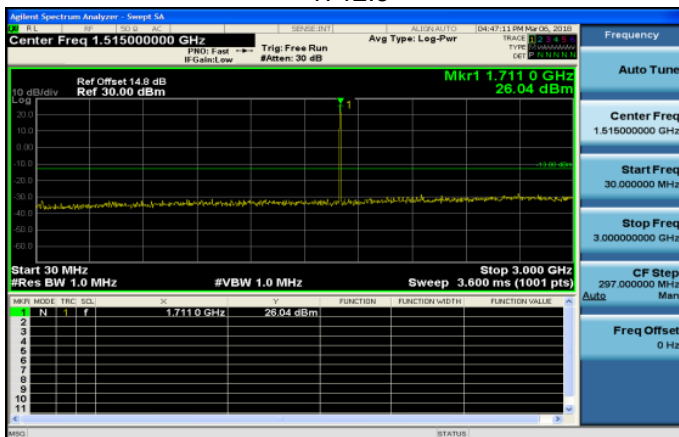
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7-1778.5



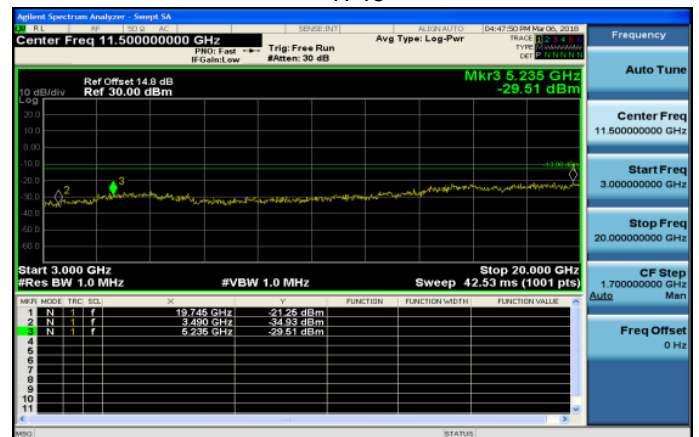
30MHz~3GHz\_Band66\_5MHz\_QPSK\_1\_0\_MidCH132322  
-1745



30MHz~3GHz\_Band66\_5MHz\_QPSK\_1\_0\_LowCH131997  
-1712.5



3GHz~10GHz\_Band66\_5MHz\_QPSK\_1\_0\_MidCH132322  
-1745



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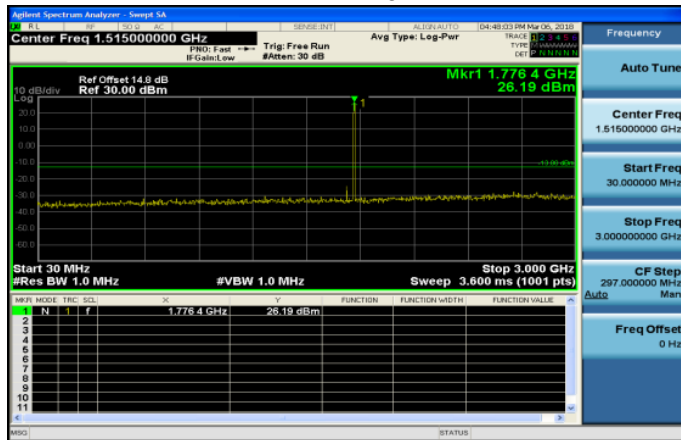
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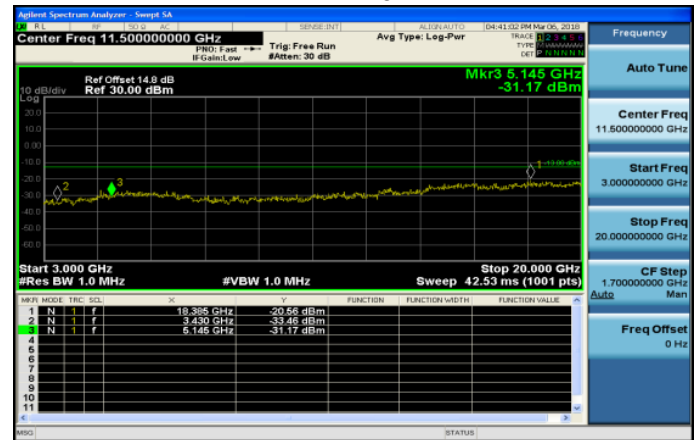
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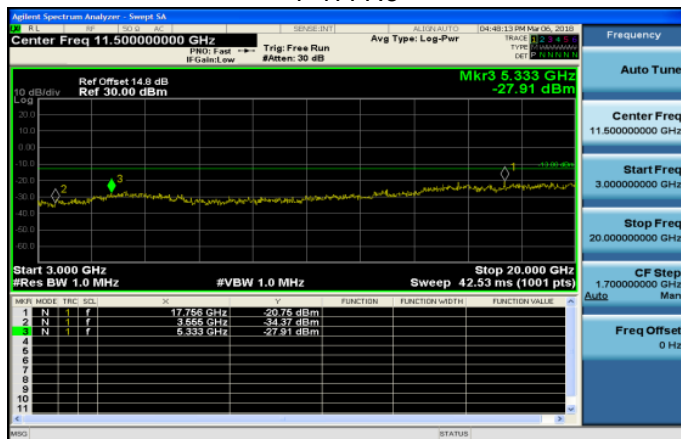
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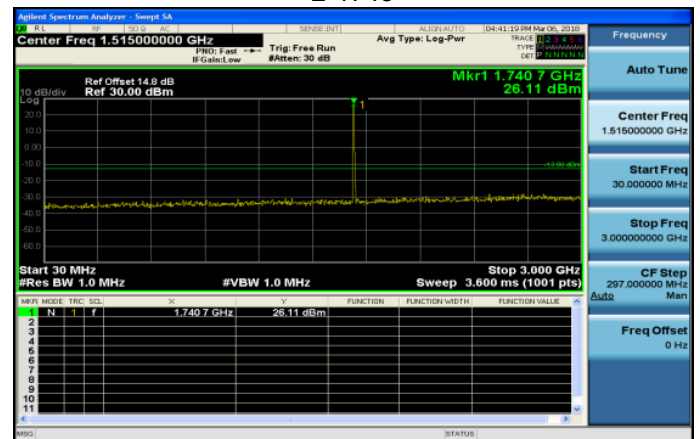
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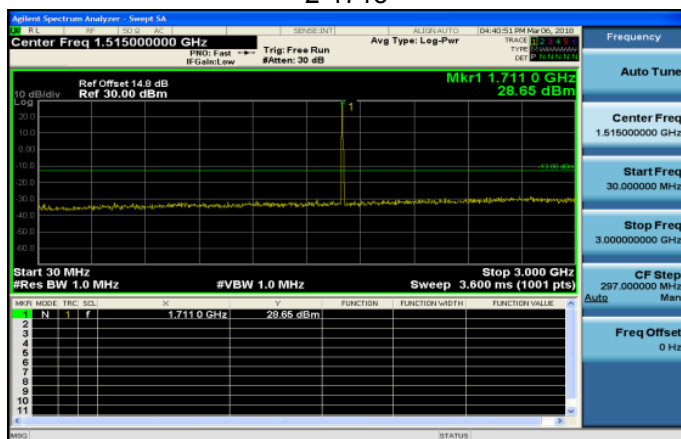
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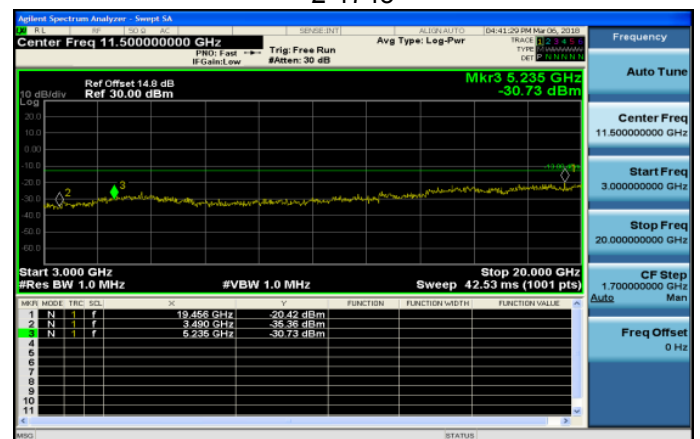
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2-1715



3GHz~10GHz\_Band66\_10MHz\_QPSK\_1\_0\_MidCH13232  
2-1745



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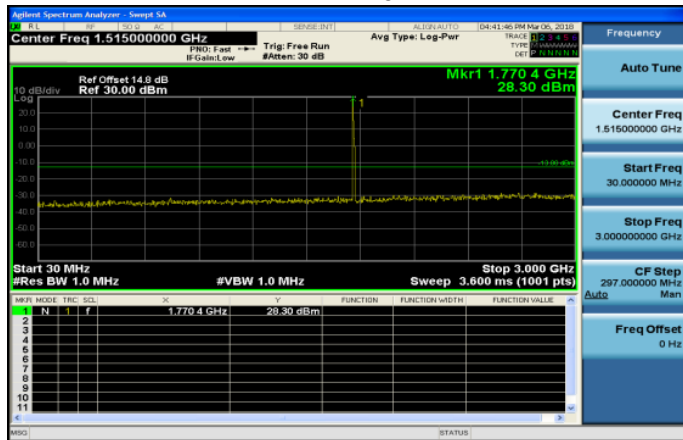
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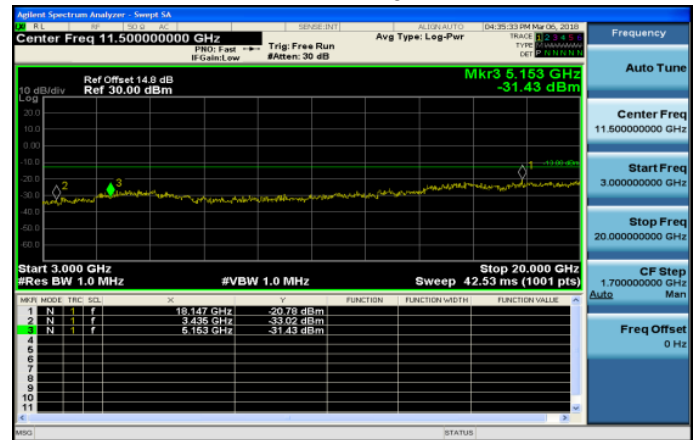
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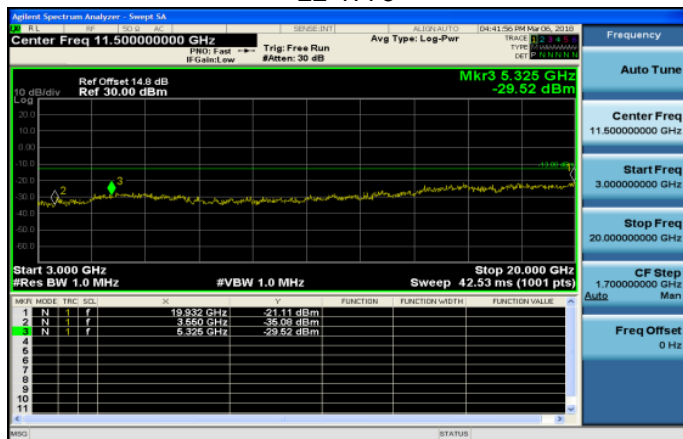
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22-1775



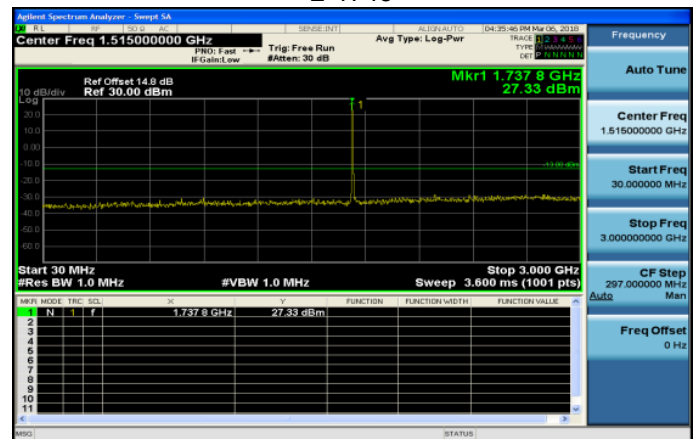
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7-1717.5



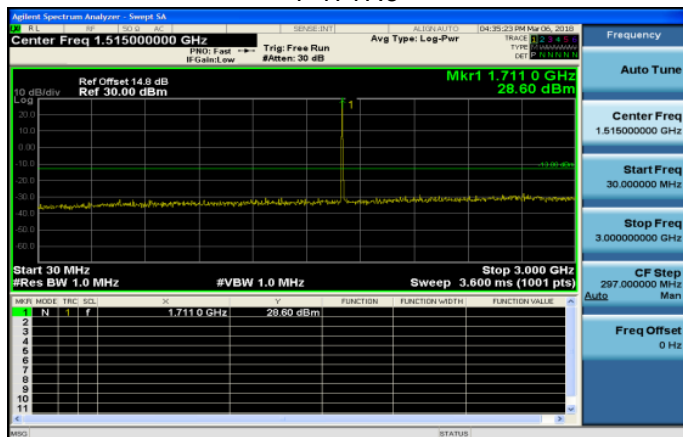
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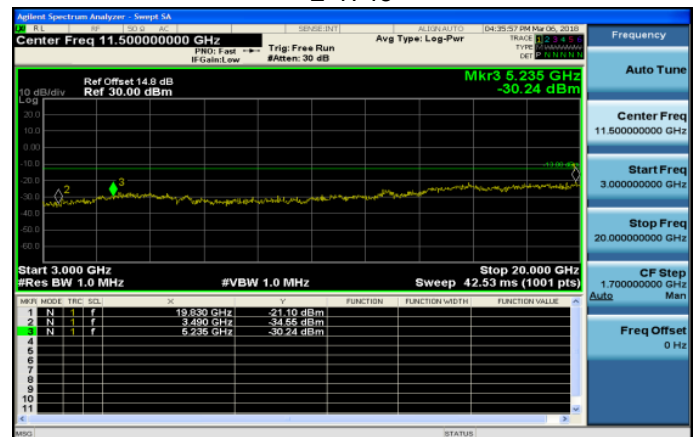
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7-1717.5



3GHz~10GHz\_Band66\_15MHz\_QPSK\_1\_0\_MidCH13232  
2-1745



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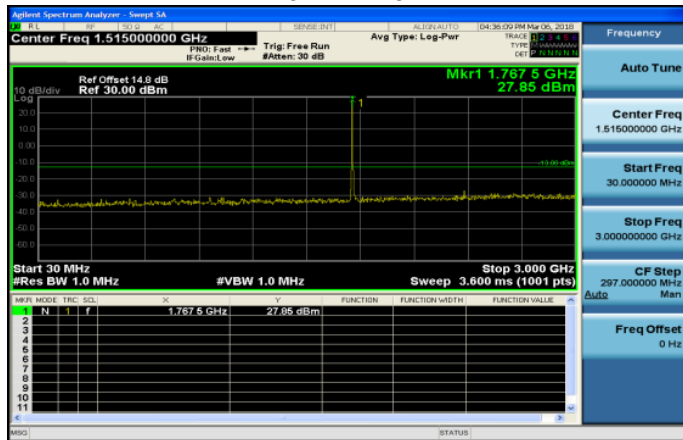
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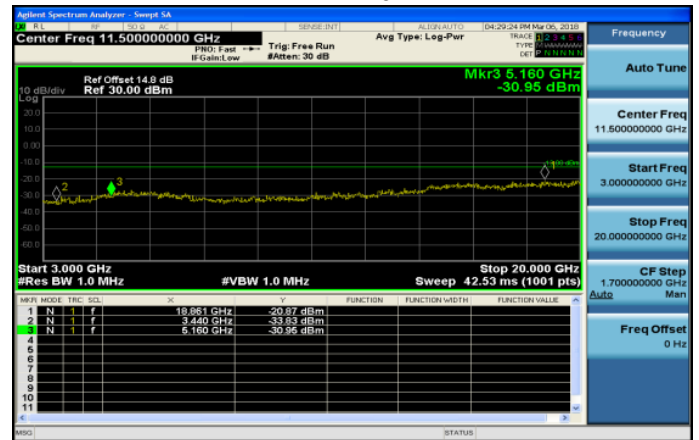
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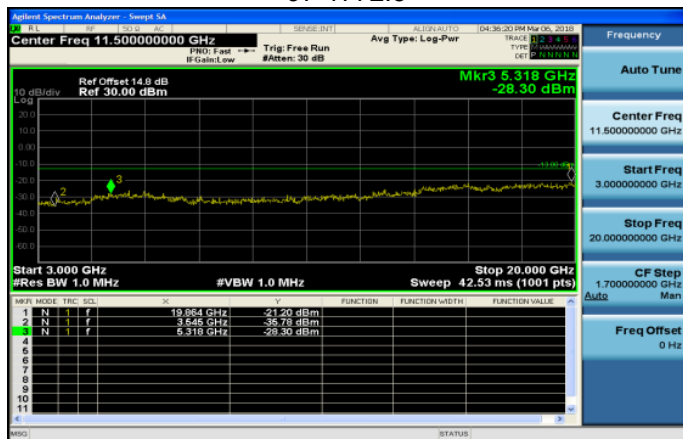
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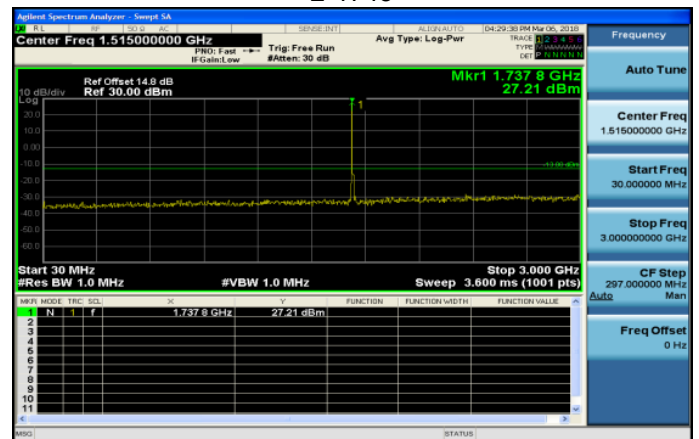
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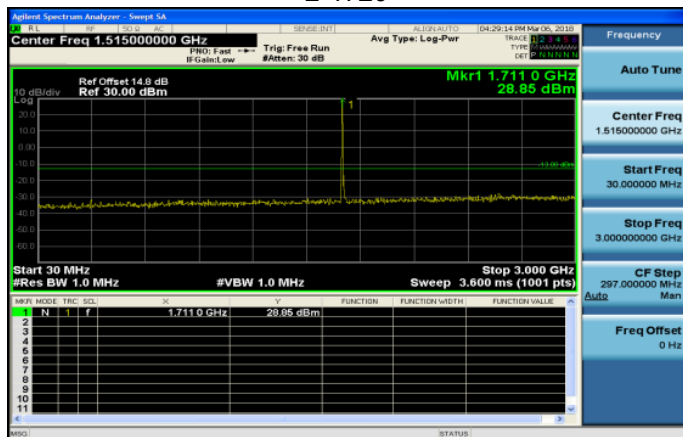
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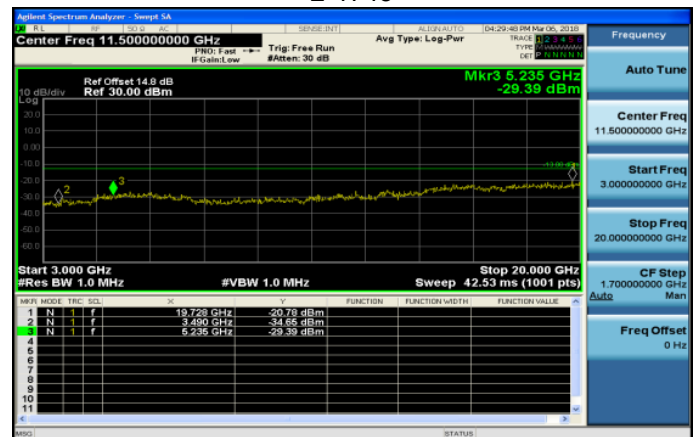
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2-1745



30MHz~3GHz\_Band66\_20MHz\_QPSK\_1\_0\_LowCH13207  
2-1720



3GHz~10GHz\_Band66\_20MHz\_QPSK\_1\_0\_MidCH13232  
2-1745



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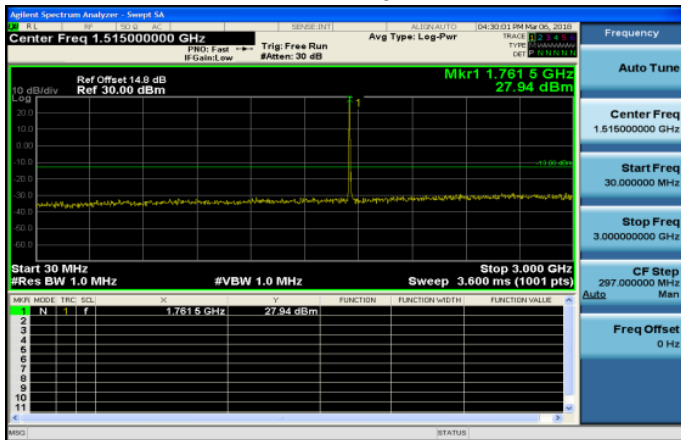
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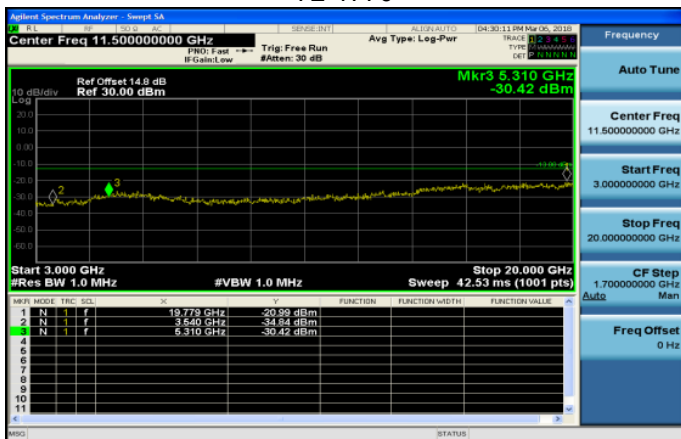
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30MHz~3GHz\_Band66\_20MHz\_QPSK\_1\_0\_HighCH1325  
72-1770



3GHz~10GHz\_Band66\_20MHz\_QPSK\_1\_0\_HighCH1325  
72-1770



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## 10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 10.1. Standard Applicable

According to FCC §2.1053,

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

#### §27.53 (c)

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB (-13dBm)

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

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

FCC §27.53(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

#### FCC §27.53(c) (5)

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

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## FCC §27.53(h) (3)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

## FCC §27.53(m) (4) (6)

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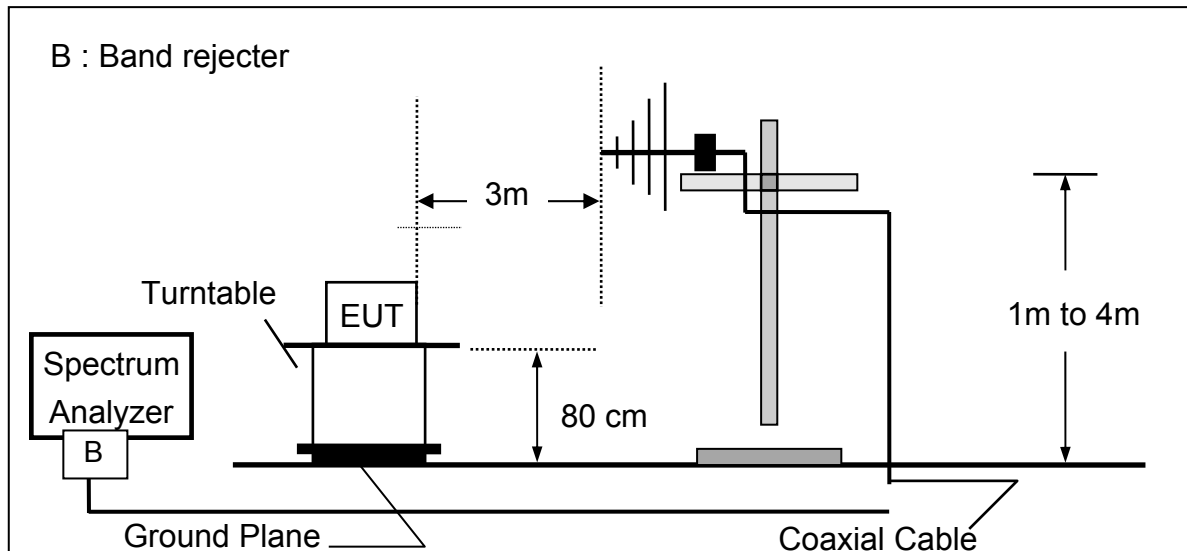
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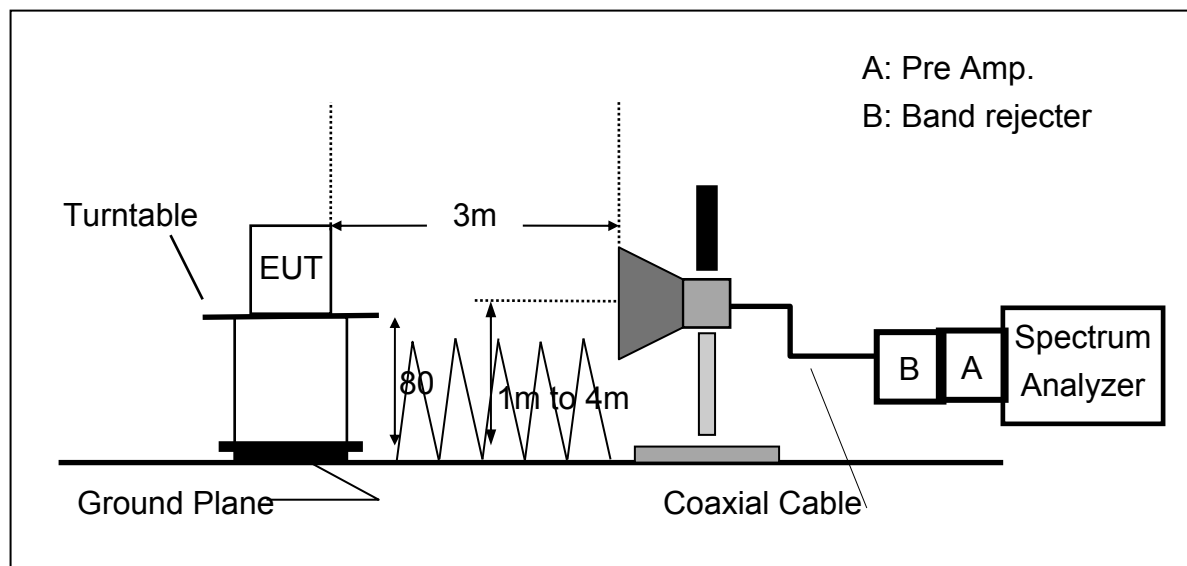
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## 10.2. EUT Setup

### 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.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
“---” : denotes Noise Floor.

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#### 10.4. Measurement Equipment Used:

| ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber |               |              |               |            |            |
|--------------------------------------------------|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                                   | MFR           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| 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 | 2019/1/3   |
| Horn Antenna                                     | Schwarzbeck   | BBHA9120D    | 1441          | 2017/08/04 | 2018/8/3   |
| Spectrum Analyzer                                | Agilent       | E4446A       | MY51100003    | 2017/05/10 | 2018/5/9   |
| EMI Test Receiver                                | R&S           | ESCI7        | 100760        | 2017/06/06 | 2018/6/5   |
| Network Analyze                                  | Anritsu       | MS4644A      | 1216312       | 2017/05/25 | 2018/5/24  |
| Radio Communi-<br>cation Analyer                 | Anritsu       | MT8820C      | 6201465317    | 01/15/2018 | 01/14/2019 |
| Pre-Amplifier                                    | HP            | 8449B        | 3008A00578    | 2018/01/02 | 2019/1/1   |
| Pre-Amplifier                                    | HP            | 8447D        | 2944A07676    | 2018/01/02 | 2019/1/1   |
| Attenuator                                       | Mini-Circuit  | BW-S10W2+    |               | 2018/01/02 | 2019/1/1   |
| Filter 800-1000                                  | Micro-Tronics | EWT          | M1            | 2018/01/02 | 2019/1/1   |
| 1GHz High Pass<br>Filter                         | Micro-Tronics | HPM50108     | 32            | 2018/01/02 | 2019/1/1   |
| Low Loss Cable                                   | Huber Suhner  | 966_RX       | 9             | 2018/01/02 | 2019/1/1   |
| Low Loss Cable                                   | Huber Suhner  | 966 TX       | 1             | 2018/01/02 | 2019/1/1   |
| 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 | 2019/1/3   |
| Horn Antenna                                     | Schwarzbeck   | BBHA9120D    | 1441          | 2017/08/04 | 2018/8/3   |
| Spectrum Analyzer                                | Agilent       | E4446A       | MY51100003    | 2017/05/10 | 2018/5/9   |
| EMI Test Receiver                                | R&S           | ESCI7        | 100760        | 2017/06/06 | 2018/6/5   |
| Network Analyze                                  | Anritsu       | MS4644A      | 1216312       | 2017/05/25 | 2018/5/24  |
| Radio Communi-<br>cation Analyer                 | Anritsu       | MT8820C      | 6201465317    | 01/15/2018 | 01/14/2019 |
| Pre-Amplifier                                    | HP            | 8449B        | 3008A00578    | 2018/01/02 | 2019/1/1   |
| Pre-Amplifier                                    | HP            | 8447D        | 2944A07676    | 2018/01/02 | 2019/1/1   |
| Attenuator                                       | Mini-Circuit  | BW-S10W2+    |               | 2018/01/02 | 2019/1/1   |
| Filter 800-1000                                  | Micro-Tronics | EWT          | M1            | 2018/01/02 | 2019/1/1   |

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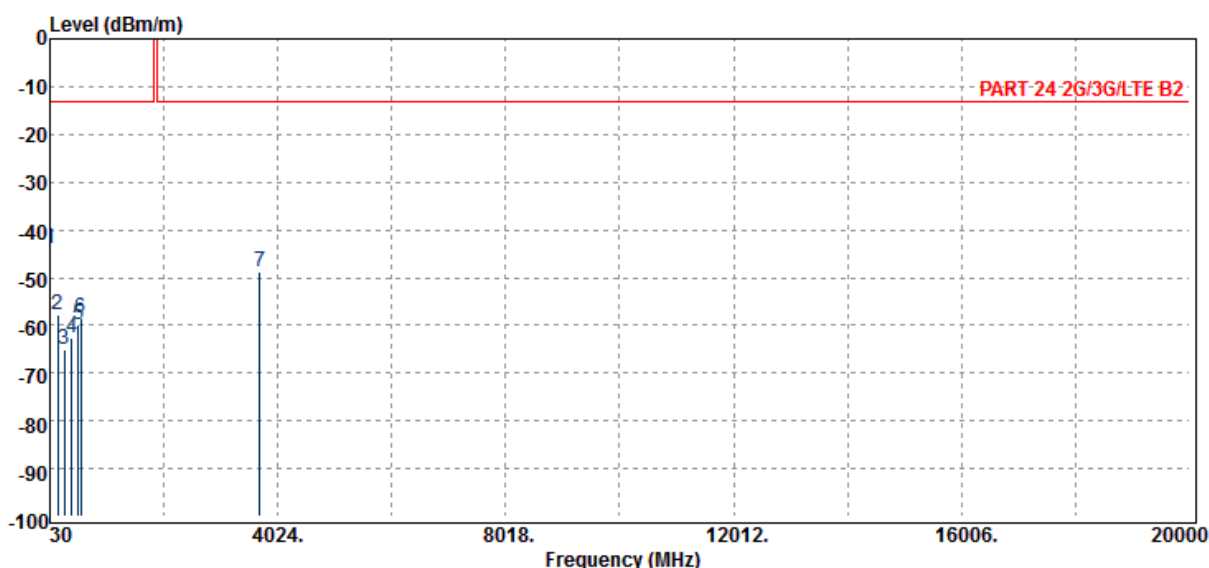
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## 10.5. Measurement Result:

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

|                       |             |                  |                   |
|-----------------------|-------------|------------------|-------------------|
| Operation Band        | :HSDPA B2   | Temp./Humi.      | :22 deg_C / 62 RH |
| Fundamental Frequency | :1852.4 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | S               | -44.11          | -29.67                    | -13.84                     | -0.60               | -13.00       | -31.11       |
| 168.71       | S               | -57.89          | -55.87                    | -0.70                      | -1.33               | -13.00       | -44.89       |
| 285.11       | S               | -65.16          | -66.82                    | 3.42                       | -1.76               | -13.00       | -52.16       |
| 418.00       | S               | -62.58          | -64.12                    | 3.65                       | -2.11               | -13.00       | -49.58       |
| 532.46       | S               | -59.94          | -61.68                    | 4.01                       | -2.27               | -13.00       | -46.94       |
| 571.26       | S               | -58.36          | -59.49                    | 3.79                       | -2.65               | -13.00       | -45.36       |
| 3704.80      | H               | -48.77          | -54.43                    | 12.57                      | -6.90               | -13.00       | -35.77       |

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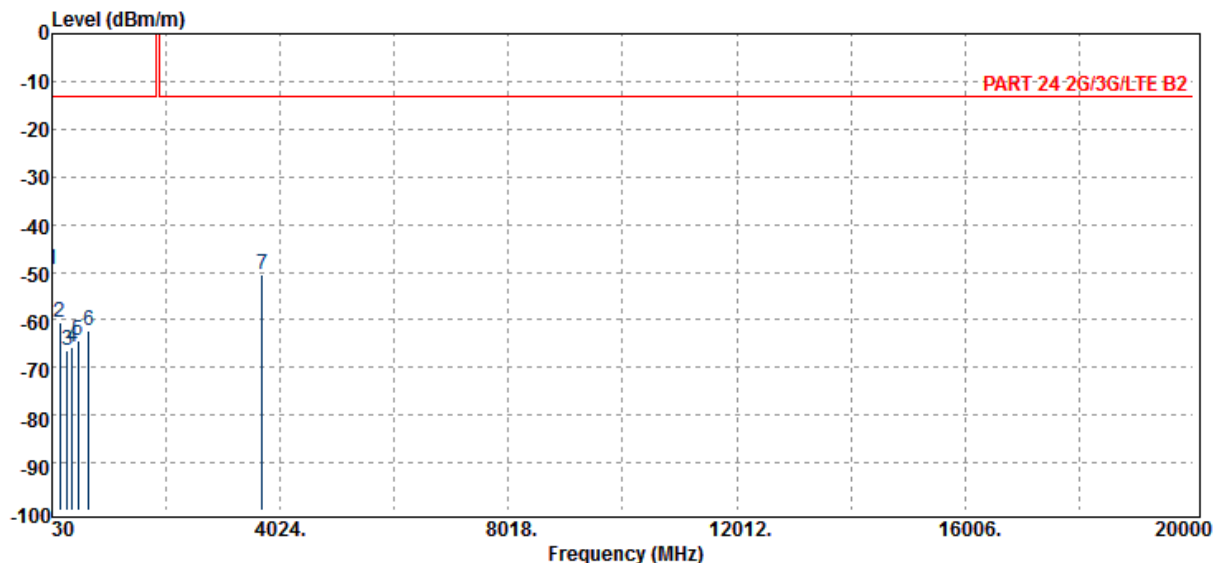
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :HSDPA B2   | Temp./Humi.      | :22 deg_C / 62 RH   |
| Fundamental Frequency | :1852.4 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW  |                  |                     |
| 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               | -49.53          | -34.37                    | -14.58                     | -0.58               | -13.00       | -36.53       |
| 170.65       | S               | -60.72          | -58.87                    | -0.51                      | -1.33               | -13.00       | -47.72       |
| 296.75       | S               | -66.53          | -68.27                    | 3.55                       | -1.81               | -13.00       | -53.53       |
| 381.14       | S               | -65.91          | -67.65                    | 3.77                       | -2.02               | -13.00       | -52.91       |
| 481.05       | S               | -64.49          | -66.39                    | 3.86                       | -1.96               | -13.00       | -51.49       |
| 670.20       | S               | -62.21          | -63.66                    | 3.77                       | -2.31               | -13.00       | -49.21       |
| 3704.80      | H               | -50.55          | -56.21                    | 12.57                      | -6.90               | -13.00       | -37.55       |

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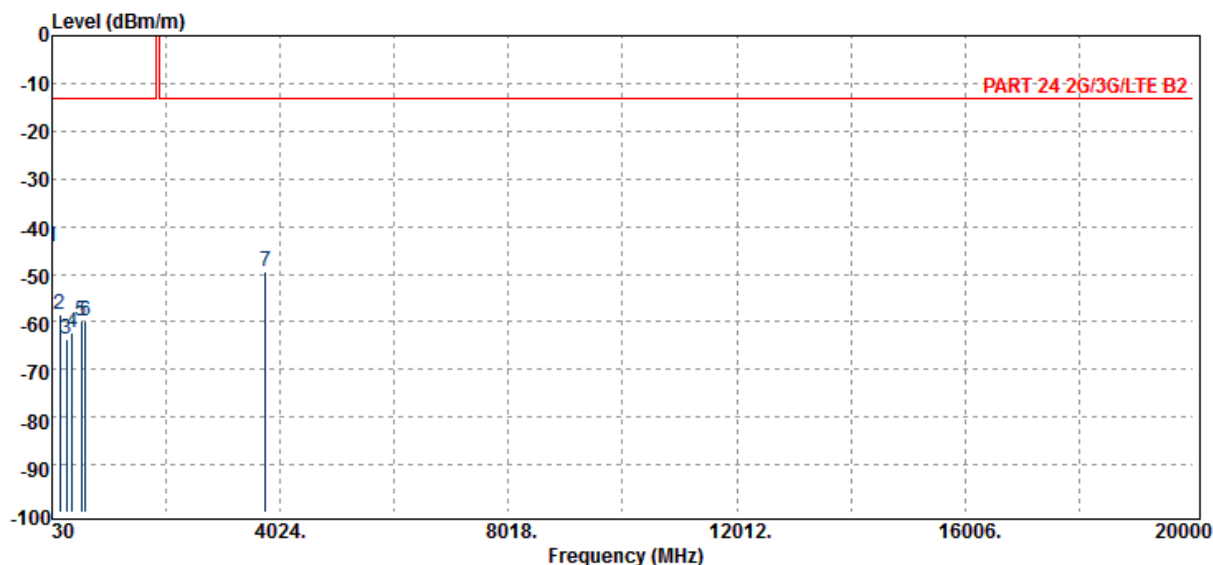
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|                       |            |                  |                   |
|-----------------------|------------|------------------|-------------------|
| Operation Band        | :HSDPA B2  | Temp./Humi.      | :22 deg_C / 62 RH |
| Fundamental Frequency | :1880 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 31.94        | S               | -44.31          | -29.64                    | -14.08                     | -0.59               | -13.00       | -31.31       |
| 172.59       | S               | -58.37          | -56.83                    | -0.20                      | -1.34               | -13.00       | -45.37       |
| 285.11       | S               | -63.54          | -65.20                    | 3.42                       | -1.76               | -13.00       | -50.54       |
| 381.14       | S               | -62.31          | -64.06                    | 3.77                       | -2.02               | -13.00       | -49.31       |
| 542.16       | S               | -60.00          | -62.13                    | 3.99                       | -1.87               | -13.00       | -47.00       |
| 614.91       | S               | -59.76          | -60.91                    | 3.63                       | -2.47               | -13.00       | -46.76       |
| 3760.00      | H               | -49.40          | -55.13                    | 12.61                      | -6.89               | -13.00       | -36.40       |

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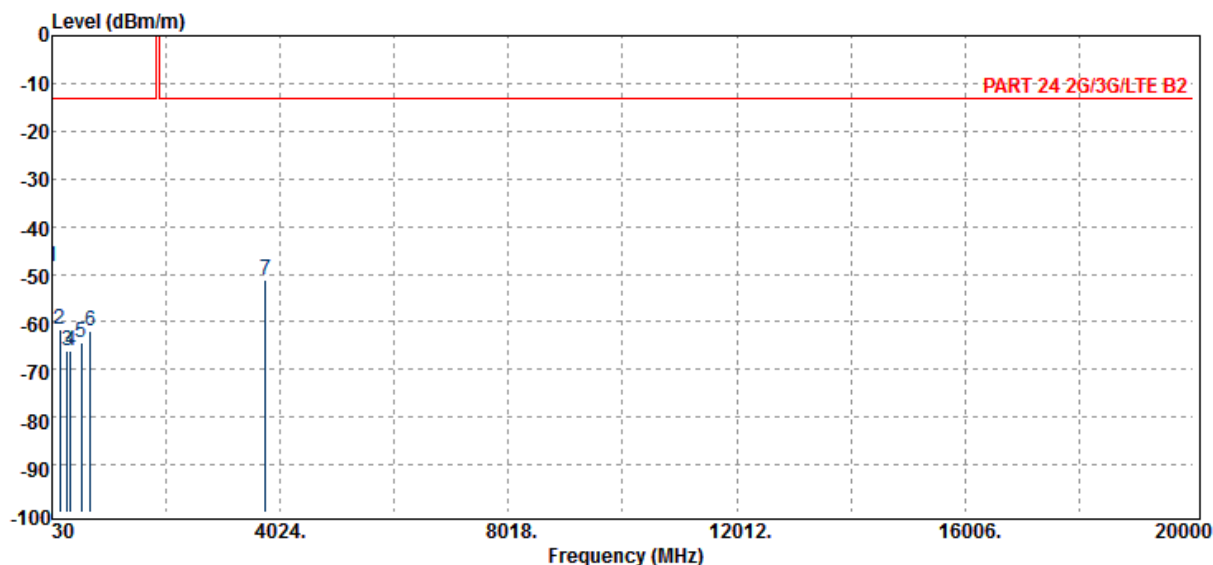
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :HSDPA B2  | Temp./Humi.      | :22 deg_C / 62 RH   |
| Fundamental Frequency | :1880 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               | -48.30          | -33.14                    | -14.58                     | -0.58               | -13.00       | -35.30       |
| 170.65       | S               | -61.67          | -59.82                    | -0.51                      | -1.33               | -13.00       | -48.67       |
| 299.66       | S               | -65.97          | -67.75                    | 3.61                       | -1.82               | -13.00       | -52.97       |
| 354.95       | S               | -66.21          | -68.01                    | 3.84                       | -2.04               | -13.00       | -53.21       |
| 546.04       | S               | -64.46          | -66.64                    | 3.99                       | -1.81               | -13.00       | -51.46       |
| 696.39       | S               | -61.94          | -63.17                    | 3.69                       | -2.46               | -13.00       | -48.94       |
| 3760.00      | H               | -51.15          | -56.88                    | 12.61                      | -6.89               | -13.00       | -38.15       |

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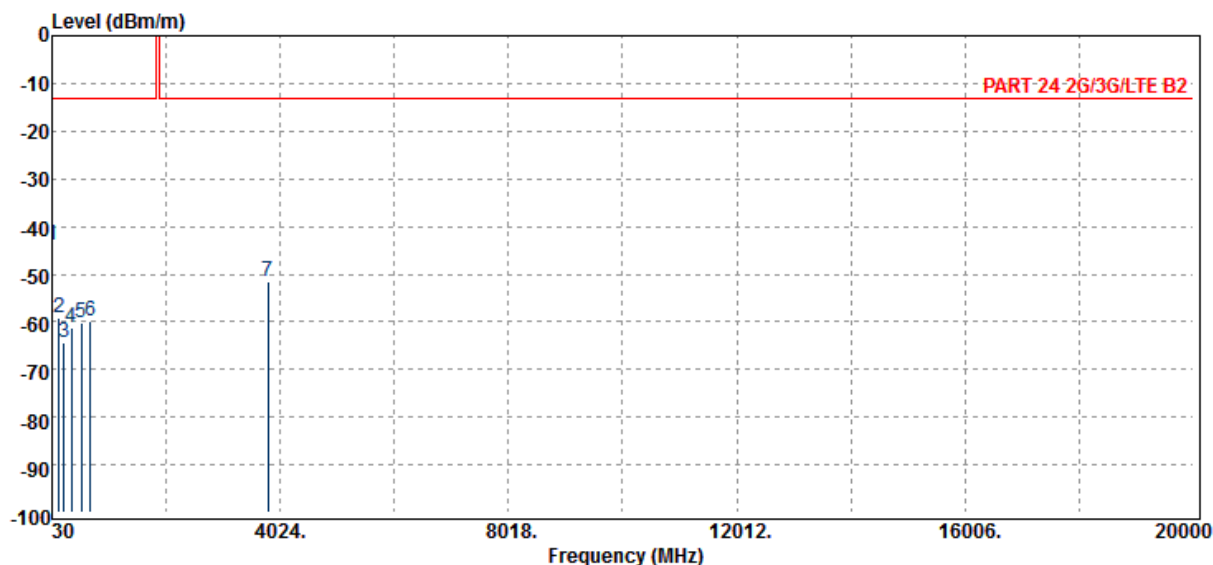
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Operation Band :HSDPA B2 Temp./Humi. :22 deg\_C / 62 RH  
Fundamental Frequency :1907.6 MHz Engineer :Tin  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane Measurement Pol. Antenna :VERTICAL



| 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 31.94        | S               | -43.90          | -29.22                    | -14.08                     | -0.59               | -13.00       | -30.90       |
| 153.19       | S               | -59.24          | -56.33                    | -1.62                      | -1.30               | -13.00       | -46.24       |
| 241.46       | S               | -64.33          | -66.14                    | 3.49                       | -1.68               | -13.00       | -51.33       |
| 367.56       | S               | -61.41          | -63.15                    | 3.80                       | -2.06               | -13.00       | -48.41       |
| 544.10       | S               | -60.35          | -62.55                    | 3.99                       | -1.79               | -13.00       | -47.35       |
| 696.39       | S               | -59.81          | -61.04                    | 3.69                       | -2.46               | -13.00       | -46.81       |
| 3815.20      | H               | -51.71          | -57.36                    | 12.66                      | -7.00               | -13.00       | -38.71       |

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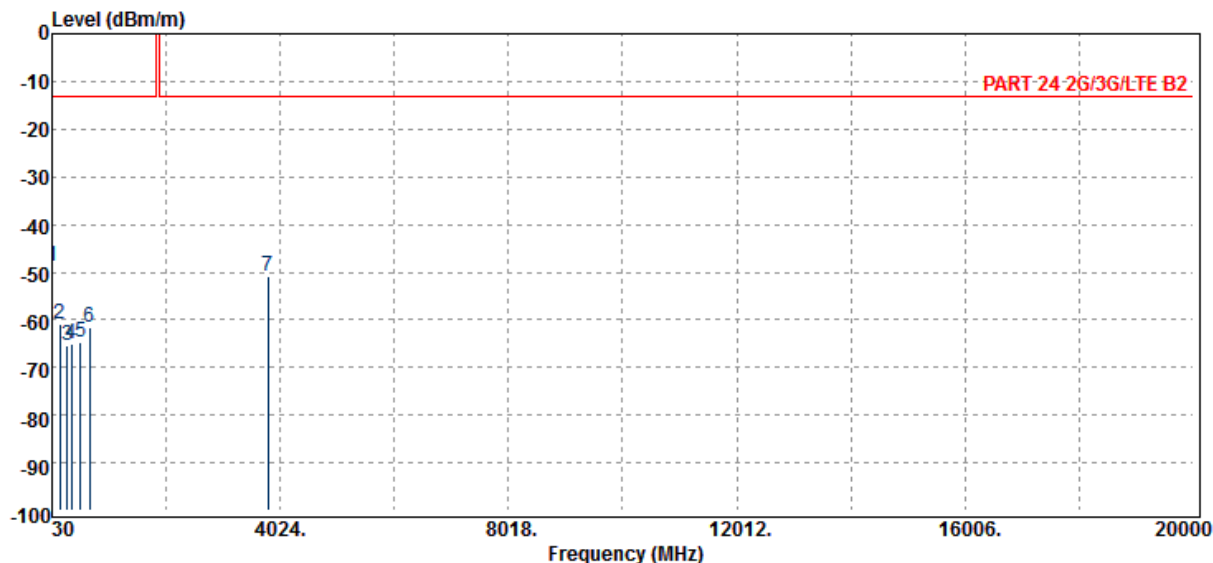
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :HSDPA B2   | Temp./Humi.      | :22 deg_C / 62 RH   |
| Fundamental Frequency | :1907.6 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :E2 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       | -48.89   | -33.73              | -14.58          | -0.58      | -13.00 | -35.89 |
| 172.59  | S       | -60.78   | -59.24              | -0.20           | -1.34      | -13.00 | -47.78 |
| 299.66  | S       | -65.40   | -67.19              | 3.61            | -1.82      | -13.00 | -52.40 |
| 371.44  | S       | -65.19   | -66.93              | 3.79            | -2.05      | -13.00 | -52.19 |
| 532.46  | S       | -64.67   | -66.41              | 4.01            | -2.27      | -13.00 | -51.67 |
| 692.51  | S       | -61.60   | -62.54              | 3.70            | -2.76      | -13.00 | -48.60 |
| 3815.20 | H       | -51.04   | -56.69              | 12.66           | -7.00      | -13.00 | -38.04 |

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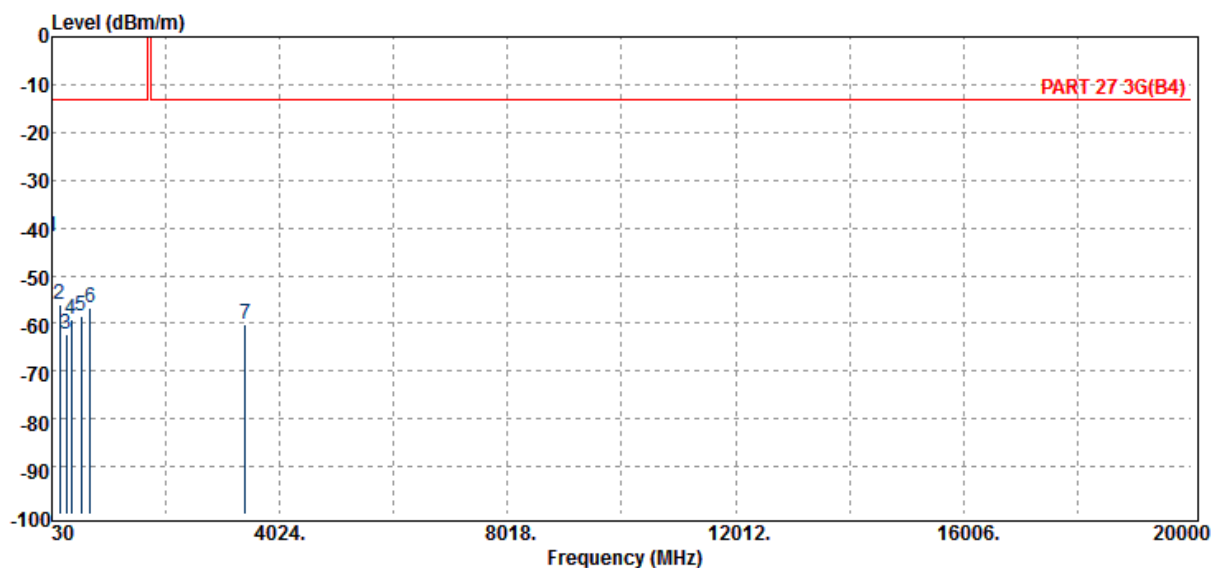
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## Radiated Spurious Emission Measurement Result: HSUPA Band 4 Mode

|                       |             |                  |                   |
|-----------------------|-------------|------------------|-------------------|
| 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.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | S               | -42.02          | -27.57                    | -13.84                     | -0.60               | -13.00       | -29.02       |
| 167.74       | S               | -55.89          | -53.81                    | -0.76                      | -1.32               | -13.00       | -42.89       |
| 285.11       | S               | -62.22          | -63.88                    | 3.42                       | -1.76               | -13.00       | -49.22       |
| 364.65       | S               | -59.26          | -61.00                    | 3.81                       | -2.07               | -13.00       | -46.26       |
| 547.01       | S               | -58.43          | -60.55                    | 3.98                       | -1.86               | -13.00       | -45.43       |
| 696.39       | S               | -56.73          | -57.96                    | 3.69                       | -2.46               | -13.00       | -43.73       |
| 3424.80      | H               | -60.21          | -65.89                    | 12.23                      | -6.54               | -13.00       | -47.21       |

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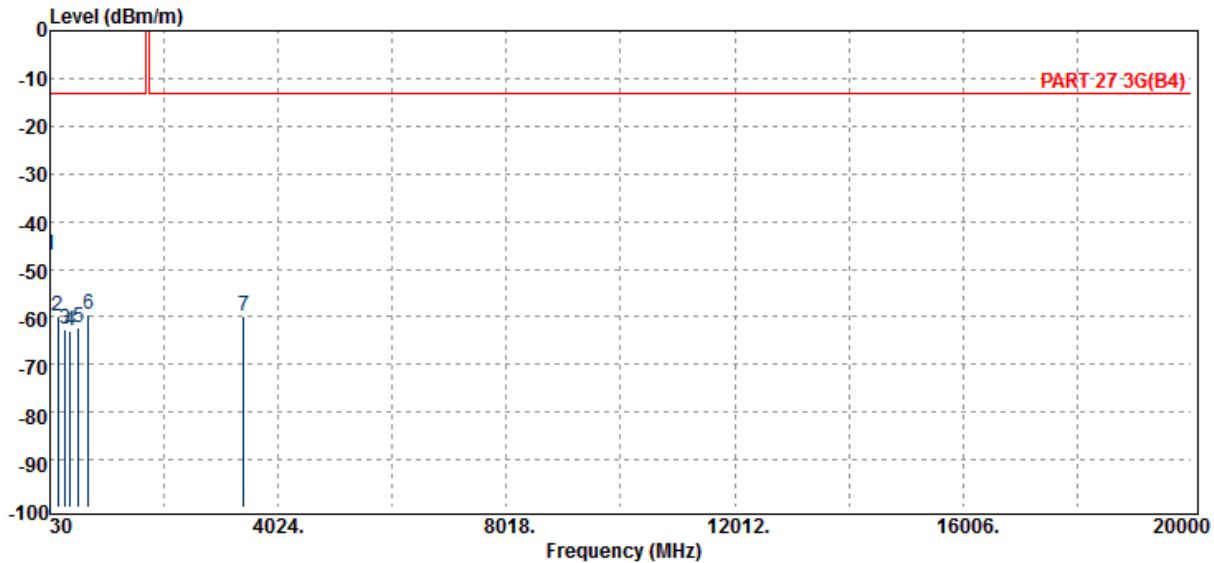
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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :HSUPA B4   | Temp./Humi.              | :22 deg_C / 62 RH |
| Fundamental Frequency | :1712.4 MHz | Engineer                 | :Tin              |
| Operation Mode        | :Tx CH LOW  |                          |                   |
| EUT Pol.              | :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               | -47.03          | -31.87                    | -14.58                     | -0.58               | -13.00       | -34.03       |
| 168.71       | S               | -59.74          | -57.72                    | -0.70                      | -1.33               | -13.00       | -46.74       |
| 299.66       | S               | -62.70          | -64.48                    | 3.61                       | -1.82               | -13.00       | -49.70       |
| 385.02       | S               | -63.14          | -64.89                    | 3.75                       | -2.01               | -13.00       | -50.14       |
| 529.55       | S               | -62.42          | -64.04                    | 4.01                       | -2.39               | -13.00       | -49.42       |
| 697.36       | S               | -59.36          | -60.66                    | 3.68                       | -2.38               | -13.00       | -46.36       |
| 3424.80      | H               | -59.93          | -65.62                    | 12.23                      | -6.54               | -13.00       | -46.93       |

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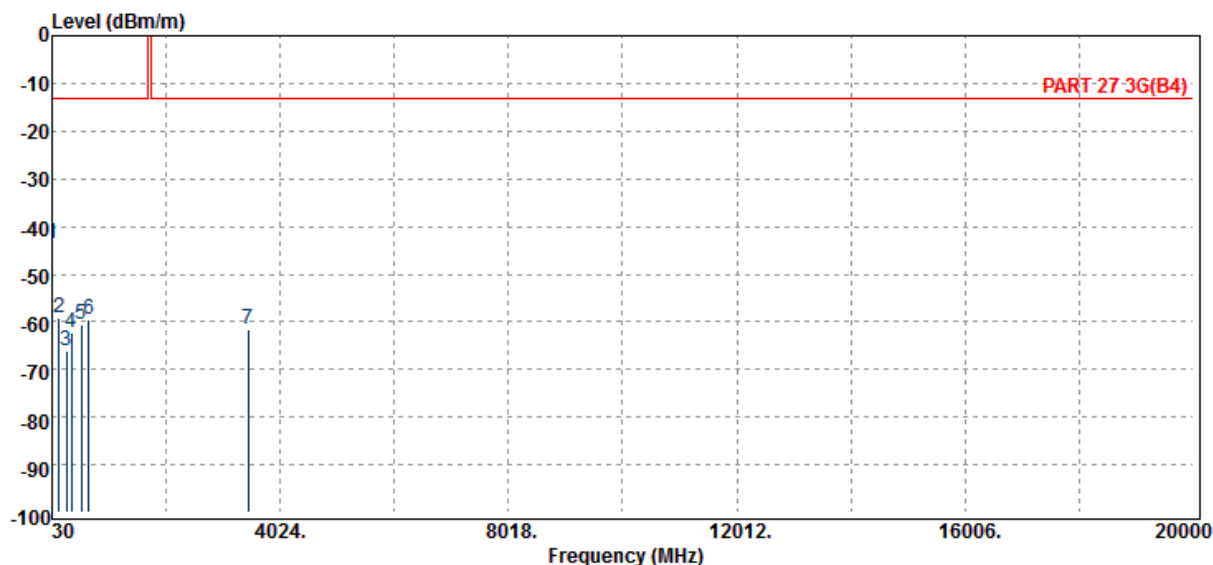
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|                       |             |                  |                   |
|-----------------------|-------------|------------------|-------------------|
| Operation Band        | :HSUPA B4   | Temp./Humi.      | :22 deg_C / 62 RH |
| Fundamental Frequency | :1732.6 MHz | Engineer         | :Tin              |
| Operation Mode        | :Tx CH MID  |                  |                   |
| EUT Pol.              | :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               | -43.53          | -28.85                    | -14.08                     | -0.59               | -13.00       | -30.53       |
| 151.25       | S               | -59.03          | -56.01                    | -1.73                      | -1.29               | -13.00       | -46.03       |
| 280.26       | S               | -66.01          | -67.68                    | 3.42                       | -1.75               | -13.00       | -53.01       |
| 374.35       | S               | -62.33          | -64.08                    | 3.78                       | -2.04               | -13.00       | -49.33       |
| 536.34       | S               | -60.40          | -62.29                    | 4.00                       | -2.11               | -13.00       | -47.40       |
| 672.14       | S               | -59.52          | -60.84                    | 3.76                       | -2.45               | -13.00       | -46.52       |
| 3465.20      | H               | -61.56          | -67.32                    | 12.32                      | -6.56               | -13.00       | -48.56       |

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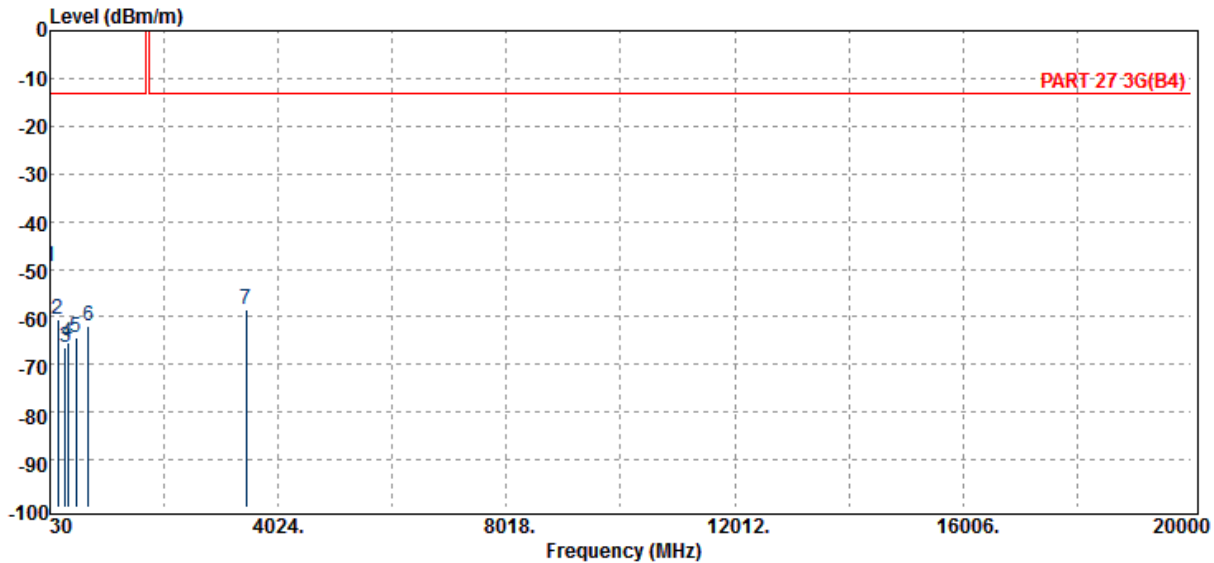
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :HSUPA B4   | Temp./Humi.      | :22 deg_C / 62 RH   |
| Fundamental Frequency | :1732.6 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID  |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 31.94        | S               | -49.51          | -34.84                    | -14.08                     | -0.59               | -13.00       | -36.51       |
| 170.65       | S               | -60.53          | -58.68                    | -0.51                      | -1.33               | -13.00       | -47.53       |
| 294.81       | S               | -66.47          | -68.18                    | 3.52                       | -1.80               | -13.00       | -53.47       |
| 335.55       | S               | -65.29          | -67.13                    | 3.79                       | -1.95               | -13.00       | -52.29       |
| 487.84       | S               | -64.49          | -66.53                    | 3.93                       | -1.89               | -13.00       | -51.49       |
| 697.36       | S               | -62.04          | -63.34                    | 3.68                       | -2.38               | -13.00       | -49.04       |
| 3465.20      | H               | -58.34          | -64.10                    | 12.32                      | -6.56               | -13.00       | -45.34       |

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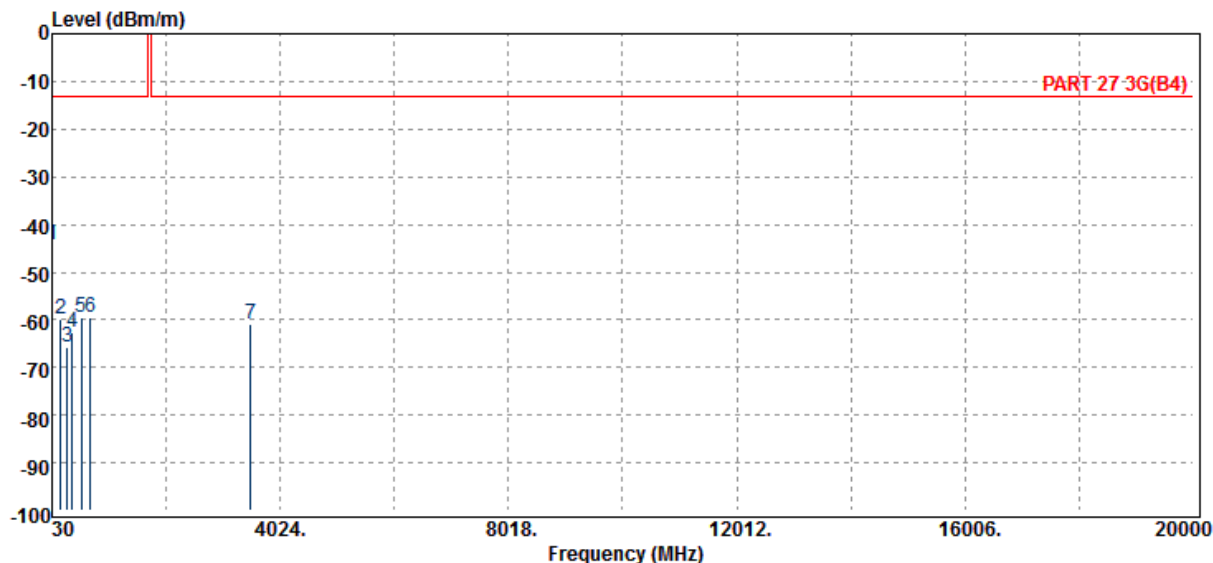
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|                       |             |                  |                   |
|-----------------------|-------------|------------------|-------------------|
| Operation Band        | :HSUPA B4   | Temp./Humi.      | :22 deg_C / 62 RH |
| Fundamental Frequency | :1752.6 MHz | Engineer         | :Tin              |
| Operation Mode        | :Tx CH HIGH |                  |                   |
| EUT Pol.              | :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               | -44.13          | -29.46                    | -14.08                     | -0.59               | -13.00       | -31.13       |
| 178.41       | S               | -59.77          | -59.12                    | 0.73                       | -1.37               | -13.00       | -46.77       |
| 299.66       | S               | -65.76          | -67.54                    | 3.61                       | -1.82               | -13.00       | -52.76       |
| 386.96       | S               | -62.49          | -64.21                    | 3.75                       | -2.02               | -13.00       | -49.49       |
| 536.34       | S               | -59.54          | -61.43                    | 4.00                       | -2.11               | -13.00       | -46.54       |
| 696.39       | S               | -59.53          | -60.75                    | 3.69                       | -2.46               | -13.00       | -46.53       |
| 3505.20      | H               | -60.82          | -66.57                    | 12.40                      | -6.66               | -13.00       | -47.82       |

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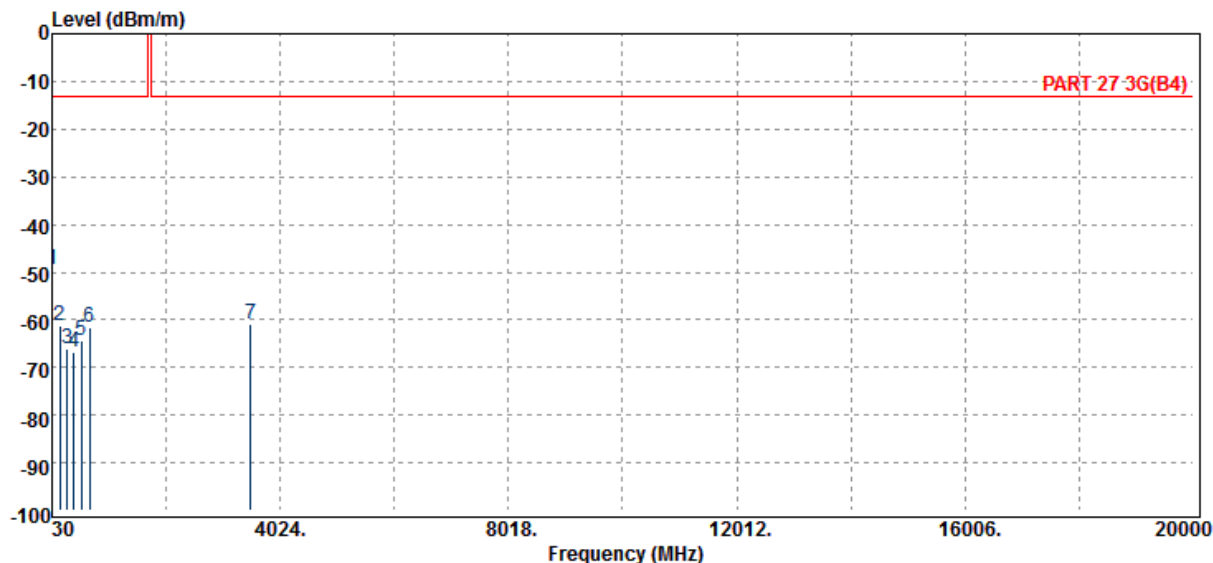
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|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :HSUPA B4   | Temp./Humi.      | :22 deg_C / 62 RH   |
| Fundamental Frequency | :1752.6 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :E2 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       | -49.46   | -34.30              | -14.58          | -0.58      | -13.00 | -36.46 |
| 170.65  | S       | -61.33   | -59.48              | -0.51           | -1.33      | -13.00 | -48.33 |
| 296.75  | S       | -65.95   | -67.70              | 3.55            | -1.81      | -13.00 | -52.95 |
| 411.21  | S       | -66.69   | -68.24              | 3.67            | -2.13      | -13.00 | -53.69 |
| 548.95  | S       | -64.31   | -66.32              | 3.98            | -1.97      | -13.00 | -51.31 |
| 691.54  | S       | -61.48   | -62.35              | 3.70            | -2.83      | -13.00 | -48.48 |
| 3505.20 | H       | -61.00   | -66.74              | 12.40           | -6.66      | -13.00 | -48.00 |

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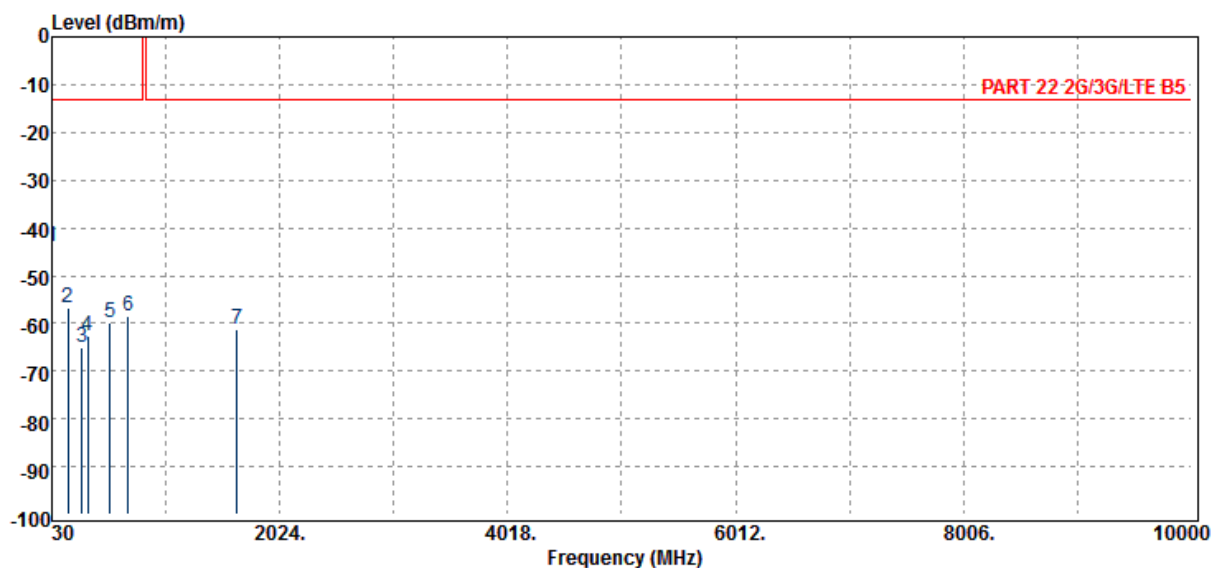
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## Radiated Spurious Emission Measurement Result: HSUPA Band 5 Mode

|                       |            |                  |                   |
|-----------------------|------------|------------------|-------------------|
| Operation Band        | :HSUPA 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               | -43.99          | -29.31                    | -14.08                     | -0.59               | -13.00       | -30.99       |
| 168.71       | S               | -56.88          | -54.86                    | -0.70                      | -1.33               | -13.00       | -43.88       |
| 296.75       | S               | -65.17          | -66.92                    | 3.55                       | -1.81               | -13.00       | -52.17       |
| 347.19       | S               | -62.47          | -64.29                    | 3.84                       | -2.02               | -13.00       | -49.47       |
| 536.34       | S               | -59.92          | -61.82                    | 4.00                       | -2.11               | -13.00       | -46.92       |
| 694.45       | S               | -58.63          | -59.71                    | 3.69                       | -2.61               | -13.00       | -45.63       |
| 1652.80      | H               | -61.38          | -64.01                    | 6.99                       | -4.36               | -13.00       | -48.38       |

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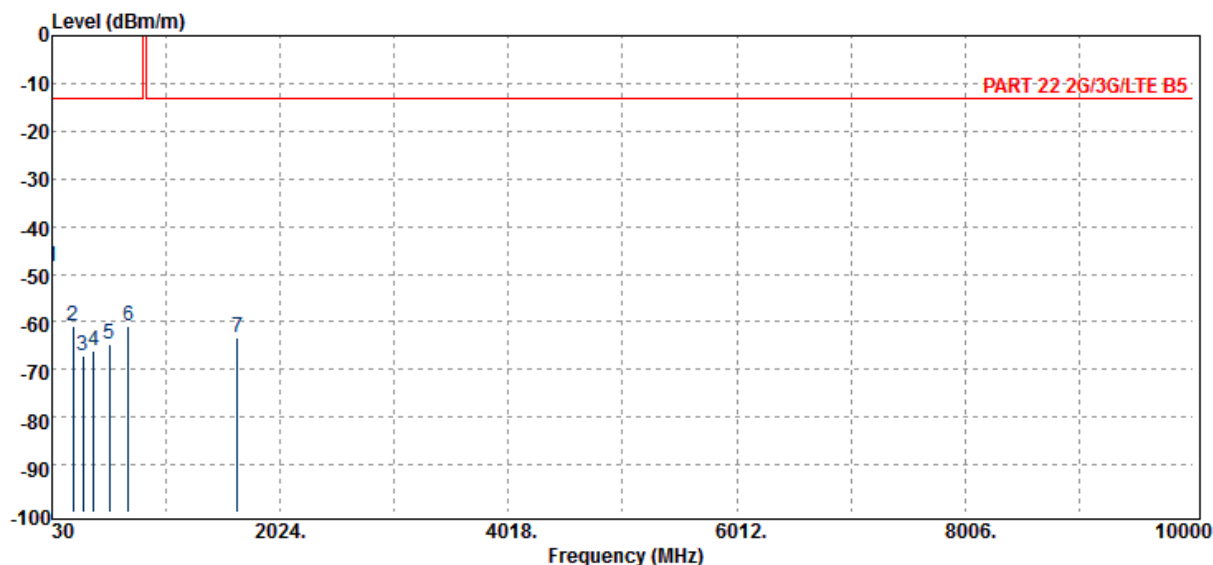
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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :HSUPA B5  | Temp./Humi.              | :24 deg_C / 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               | -48.61          | -33.93                    | -14.08                     | -0.59               | -13.00       | -35.61       |
| 216.24       | S               | -60.80          | -62.71                    | 3.47                       | -1.56               | -13.00       | -47.80       |
| 299.66       | S               | -66.98          | -68.76                    | 3.61                       | -1.82               | -13.00       | -53.98       |
| 395.69       | S               | -65.93          | -67.57                    | 3.73                       | -2.08               | -13.00       | -52.93       |
| 531.49       | S               | -64.65          | -66.34                    | 4.01                       | -2.31               | -13.00       | -51.65       |
| 699.30       | S               | -60.92          | -62.36                    | 3.68                       | -2.24               | -13.00       | -47.92       |
| 1652.80      | H               | -63.37          | -66.00                    | 6.99                       | -4.36               | -13.00       | -50.37       |

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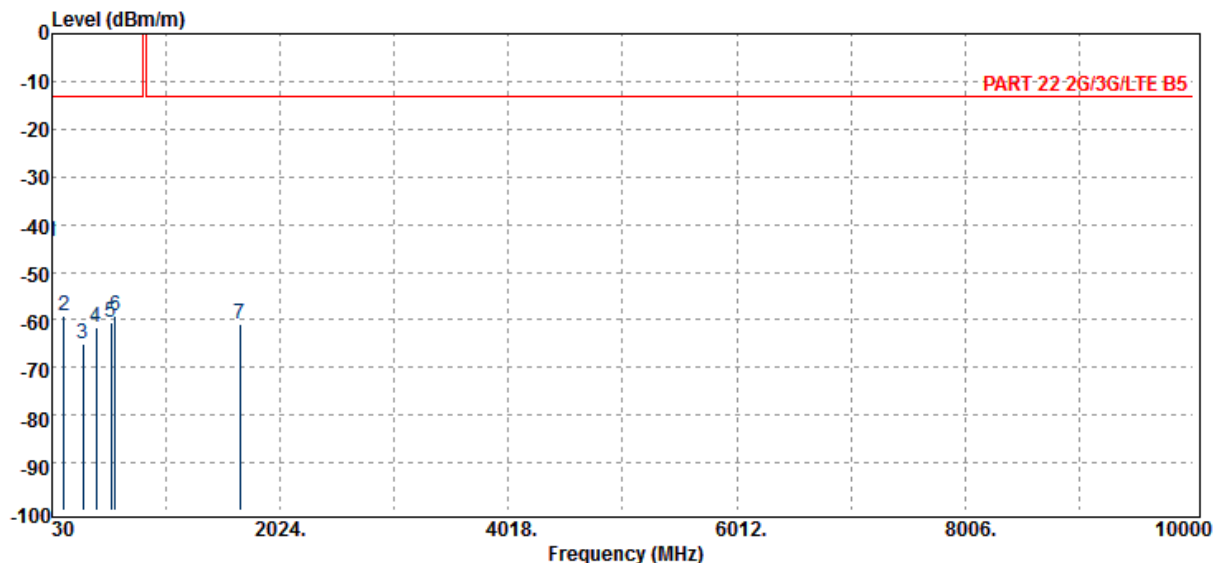
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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :HSUPA B5  | Temp./Humi.              | :24 deg_C / 61 RH |
| Fundamental Frequency | :836.6 MHz | Engineer                 | :Tin              |
| Operation Mode        | :Tx CH MID |                          |                   |
| EUT Pol.              | :E2 Plane  | Measurement Antenna Pol. | :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               | -43.49          | -28.82                    | -14.08                     | -0.59               | -13.00       | -30.49       |
| 136.70       | S               | -59.28          | -55.84                    | -2.19                      | -1.24               | -13.00       | -46.28       |
| 298.69       | S               | -65.16          | -66.93                    | 3.59                       | -1.82               | -13.00       | -52.16       |
| 415.09       | S               | -61.61          | -63.15                    | 3.66                       | -2.12               | -13.00       | -48.61       |
| 544.10       | S               | -60.57          | -62.77                    | 3.99                       | -1.79               | -13.00       | -47.57       |
| 582.90       | S               | -59.28          | -60.66                    | 3.68                       | -2.30               | -13.00       | -46.28       |
| 1673.20      | H               | -60.99          | -63.66                    | 7.06                       | -4.39               | -13.00       | -47.99       |

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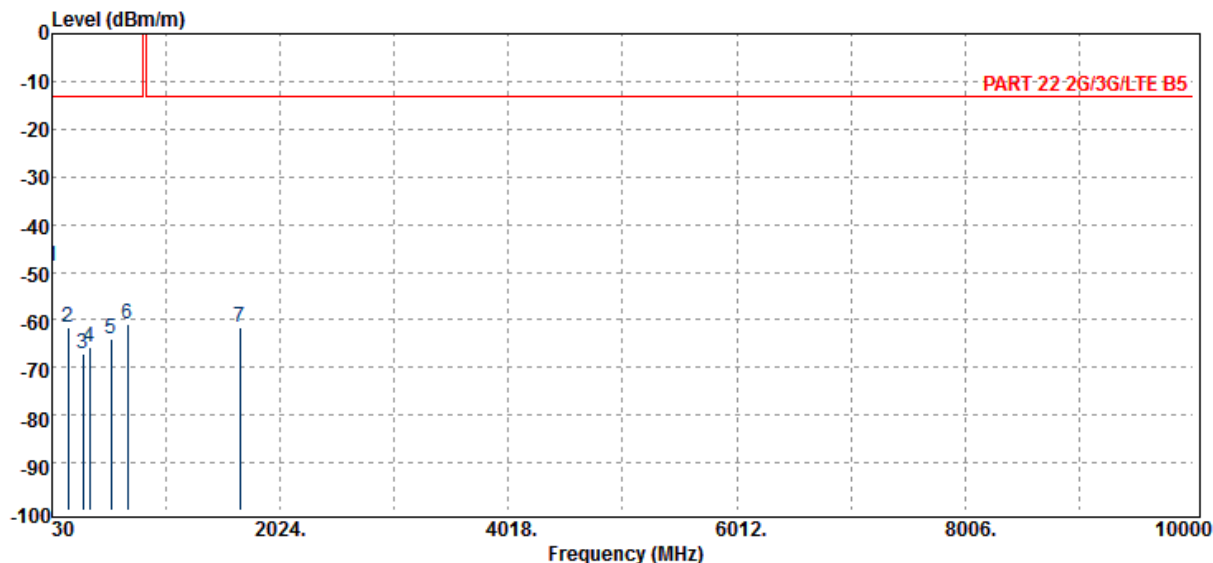
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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :HSUPA B5  | Temp./Humi.              | :24 deg_C / 61 RH |
| Fundamental Frequency | :836.6 MHz | Engineer                 | :Tin              |
| Operation Mode        | :Tx CH MID |                          |                   |
| EUT Pol.              | :E2 Plane  | Measurement 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               | -48.93          | -33.77                    | -14.58                     | -0.58               | -13.00       | -35.93       |
| 172.59       | S               | -61.54          | -60.00                    | -0.20                      | -1.34               | -13.00       | -48.54       |
| 299.66       | S               | -67.21          | -69.00                    | 3.61                       | -1.82               | -13.00       | -54.21       |
| 359.80       | S               | -65.58          | -67.35                    | 3.83                       | -2.06               | -13.00       | -52.58       |
| 546.04       | S               | -64.14          | -66.32                    | 3.99                       | -1.81               | -13.00       | -51.14       |
| 692.51       | S               | -60.77          | -61.71                    | 3.70                       | -2.76               | -13.00       | -47.77       |
| 1673.20      | H               | -61.56          | -64.22                    | 7.06                       | -4.39               | -13.00       | -48.56       |

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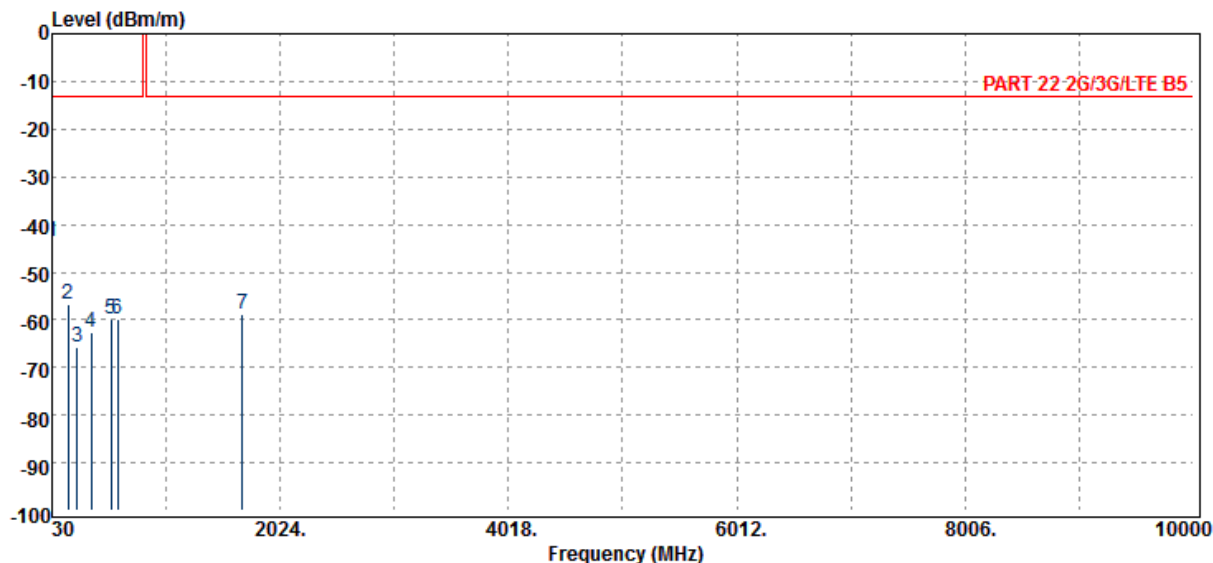
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|                       |             |                  |                   |
|-----------------------|-------------|------------------|-------------------|
| Operation Band        | :HSUPA B5   | Temp./Humi.      | :24 deg_C / 61 RH |
| Fundamental Frequency | :846.6 MHz  | Engineer         | :Tin              |
| Operation Mode        | :Tx CH HIGH |                  |                   |
| EUT Pol.              | :E2 Plane   | Measurement 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               | -43.73          | -29.06                    | -14.08                     | -0.59               | -13.00       | -30.73       |
| 172.59       | S               | -56.61          | -55.07                    | -0.20                      | -1.34               | -13.00       | -43.61       |
| 251.16       | S               | -65.66          | -67.51                    | 3.55                       | -1.70               | -13.00       | -52.66       |
| 374.35       | S               | -62.67          | -64.42                    | 3.78                       | -2.04               | -13.00       | -49.67       |
| 547.01       | S               | -59.94          | -62.06                    | 3.98                       | -1.86               | -13.00       | -46.94       |
| 605.21       | S               | -59.85          | -61.27                    | 3.57                       | -2.15               | -13.00       | -46.85       |
| 1693.20      | H               | -58.84          | -61.54                    | 7.12                       | -4.43               | -13.00       | -45.84       |

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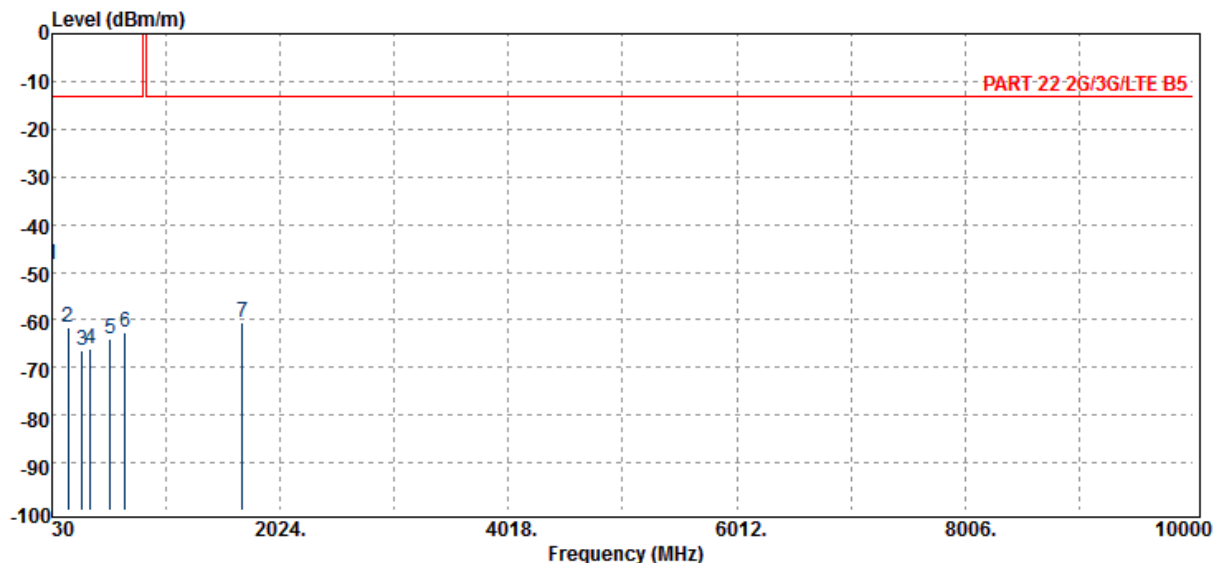
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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :HSUPA B5   | Temp./Humi.              | :24 deg_C / 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               | -48.60          | -33.44                    | -14.58                     | -0.58               | -13.00       | -35.60       |
| 172.59       | S               | -61.52          | -59.98                    | -0.20                      | -1.34               | -13.00       | -48.52       |
| 294.81       | S               | -66.57          | -68.28                    | 3.52                       | -1.80               | -13.00       | -53.57       |
| 364.65       | S               | -66.03          | -67.77                    | 3.81                       | -2.07               | -13.00       | -53.03       |
| 539.25       | S               | -64.04          | -66.05                    | 4.00                       | -1.99               | -13.00       | -51.04       |
| 667.29       | S               | -62.48          | -64.15                    | 3.78                       | -2.11               | -13.00       | -49.48       |
| 1693.20      | H               | -60.39          | -63.08                    | 7.12                       | -4.43               | -13.00       | -47.39       |

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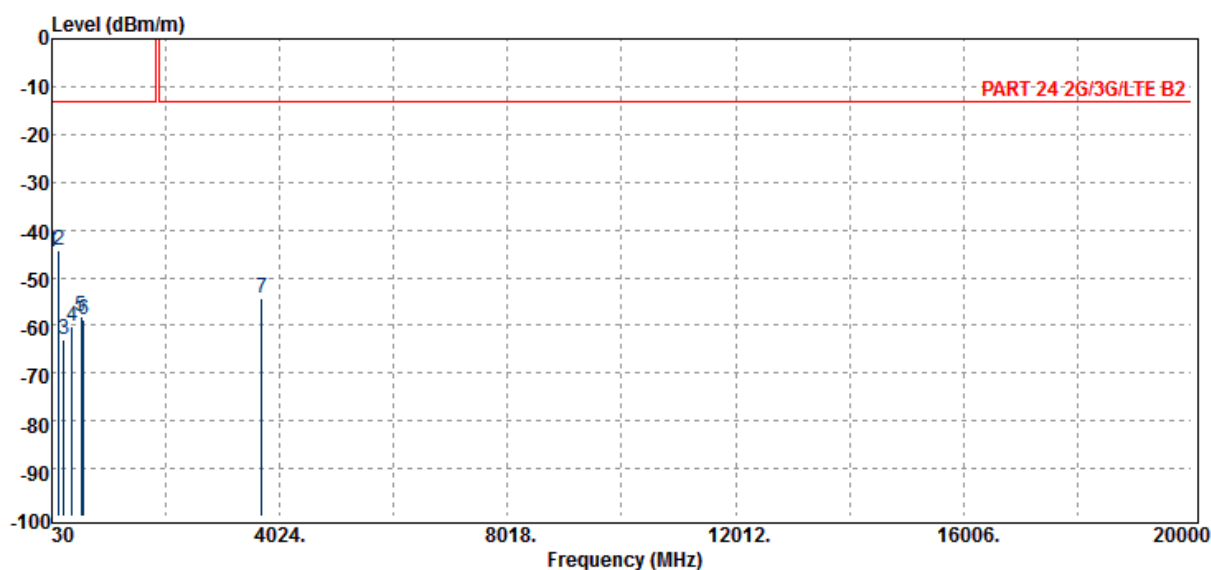
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## Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| 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.              | :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               | -44.70          | -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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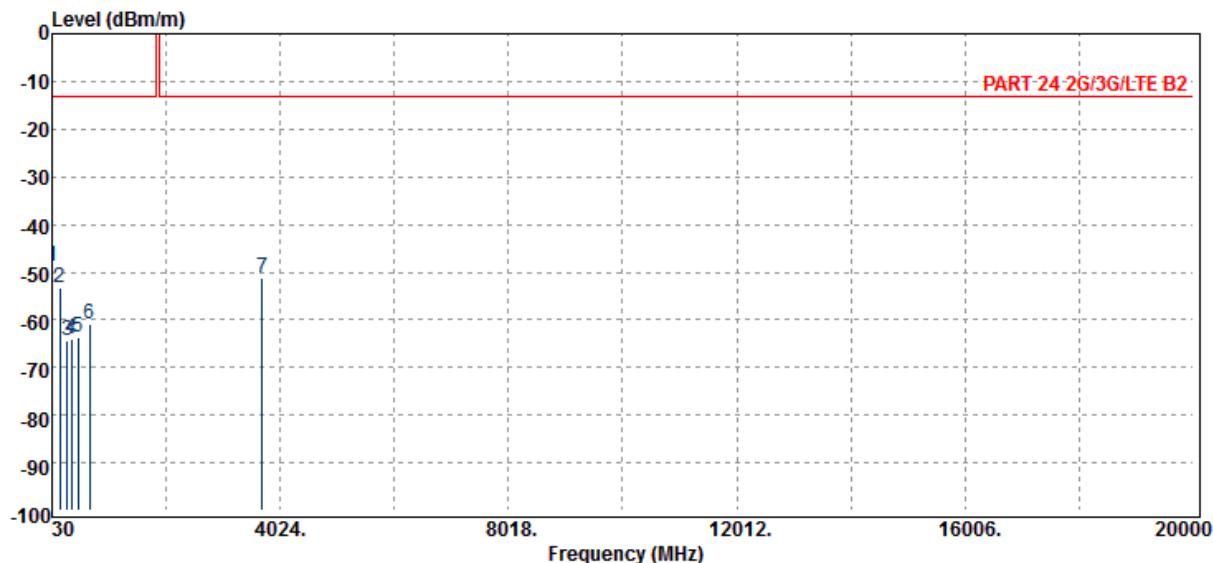
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B2     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1852.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW  |                  |                     |
| EUT Pol.              | :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               | -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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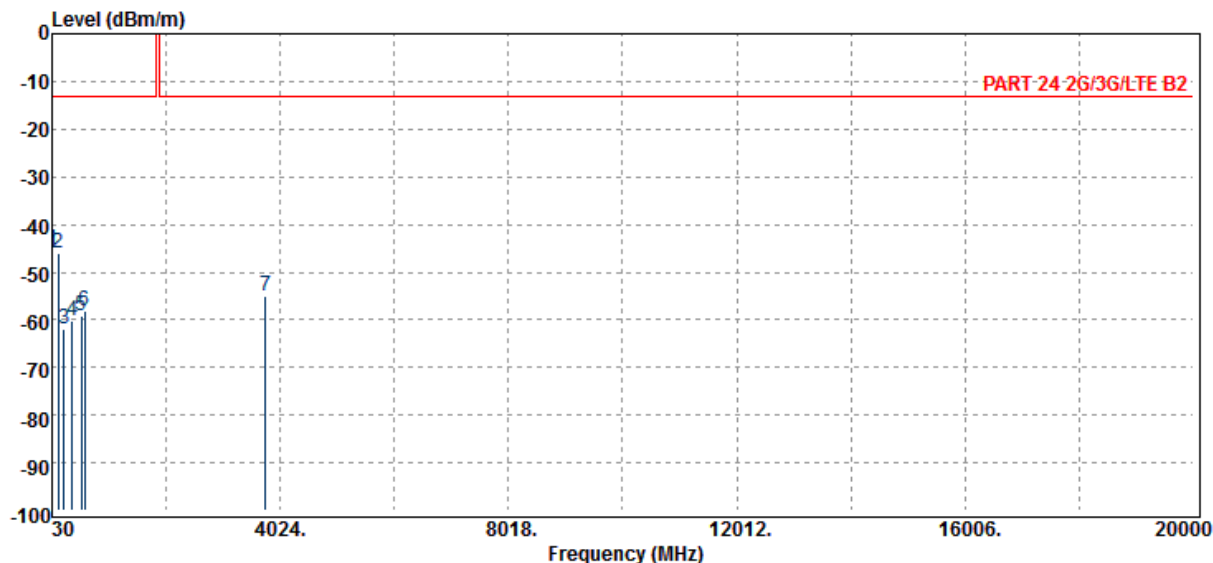
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B2    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1880 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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               | -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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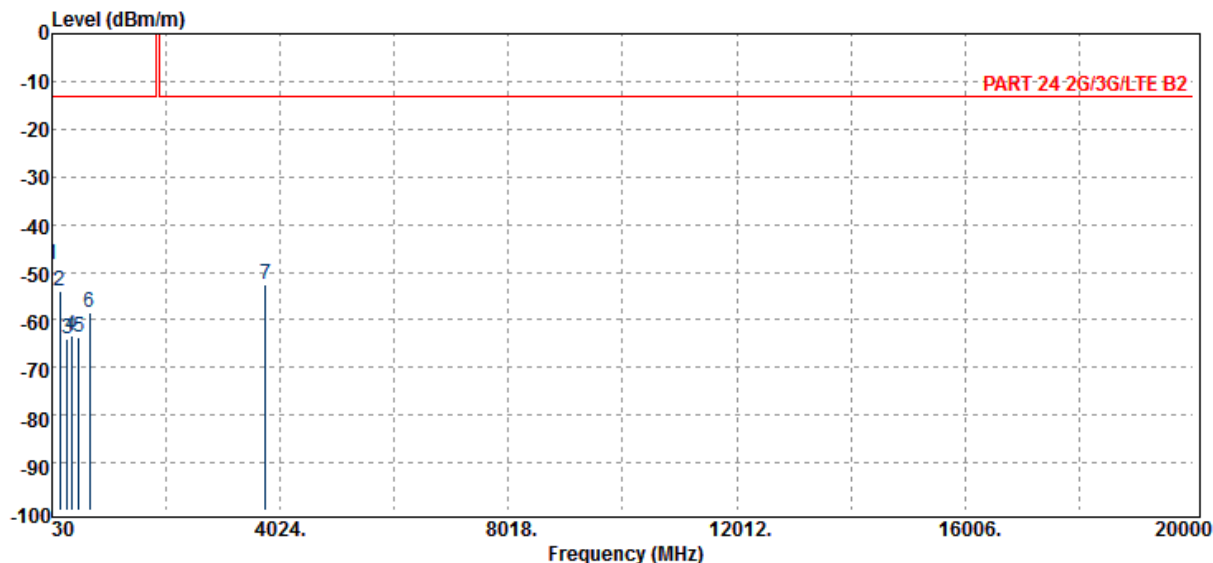
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B2    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1880 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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               | -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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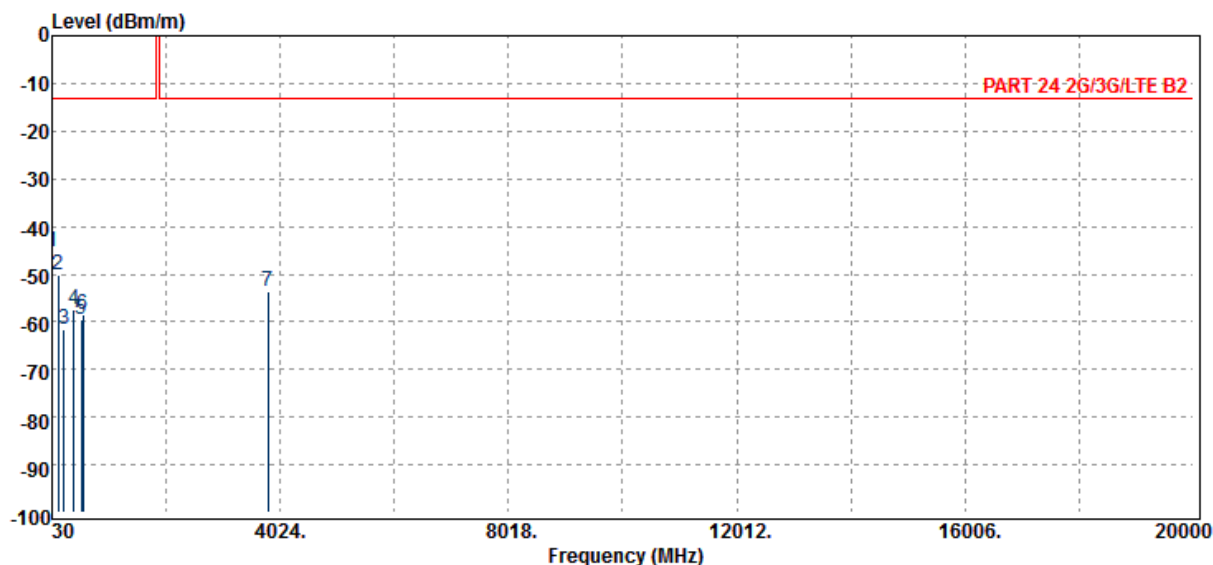
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B2     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1907.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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               | -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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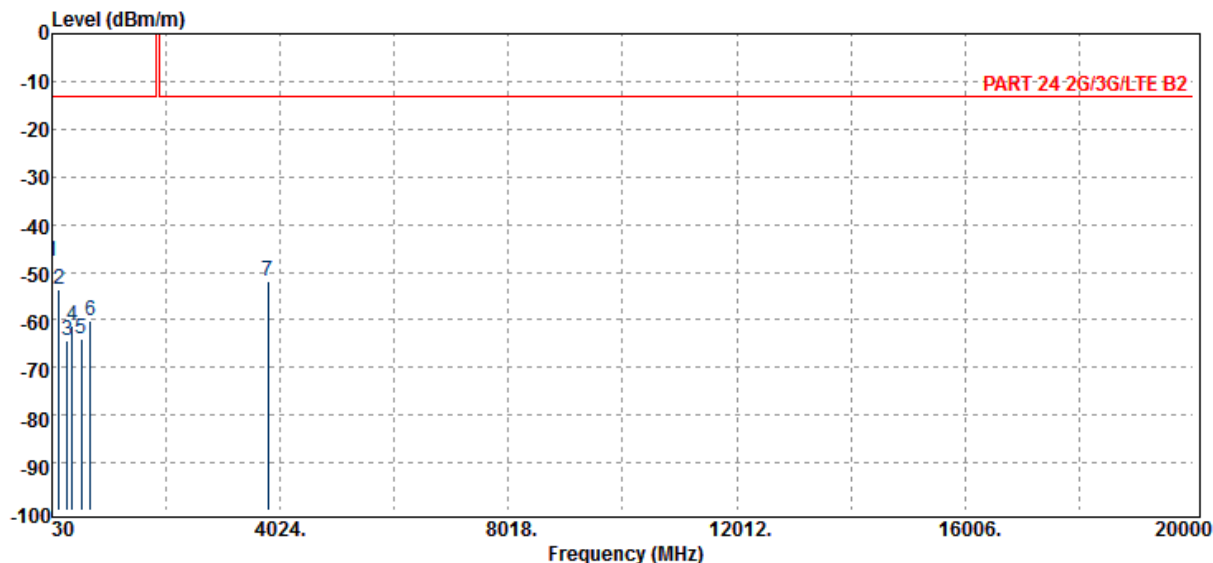
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B2     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1907.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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               | -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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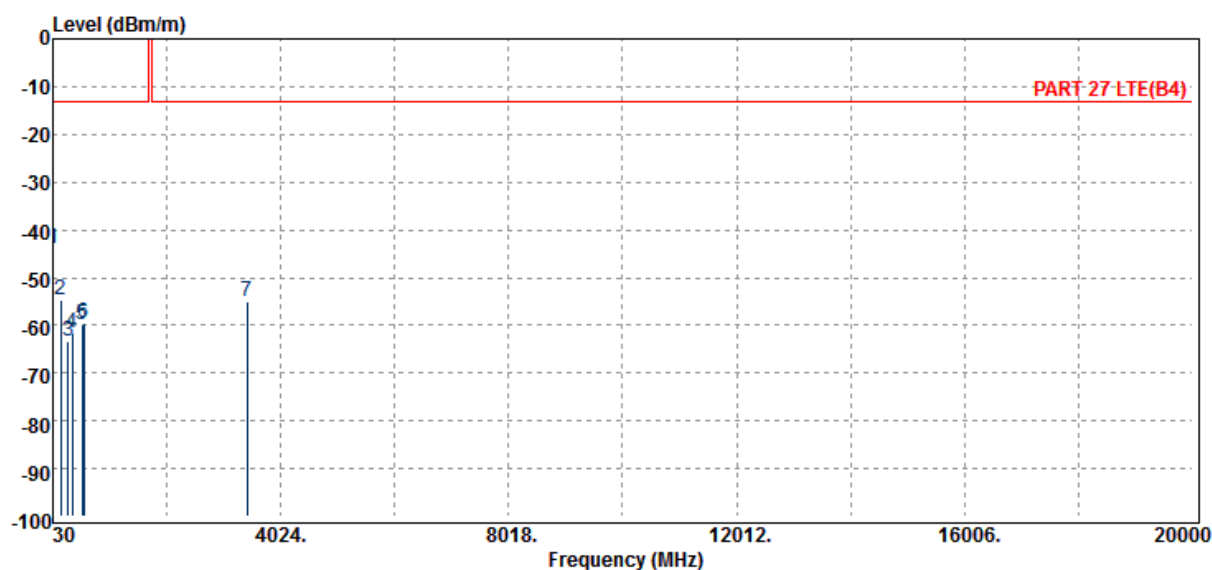
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## Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| 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.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 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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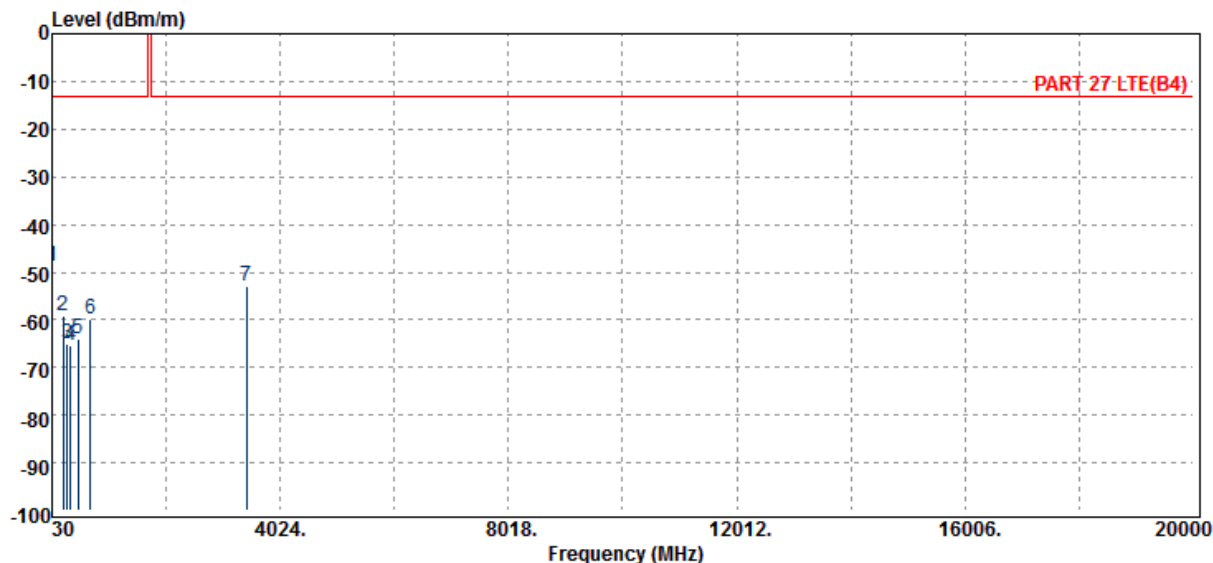
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|                       |             |                          |                     |
|-----------------------|-------------|--------------------------|---------------------|
| Operation Band        | :LTE B4     | Temp./Humi.              | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1717.5 MHz | Engineer                 | :Tin                |
| Operation Mode        | :Tx CH LOW  |                          |                     |
| EUT Pol.              | :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               | -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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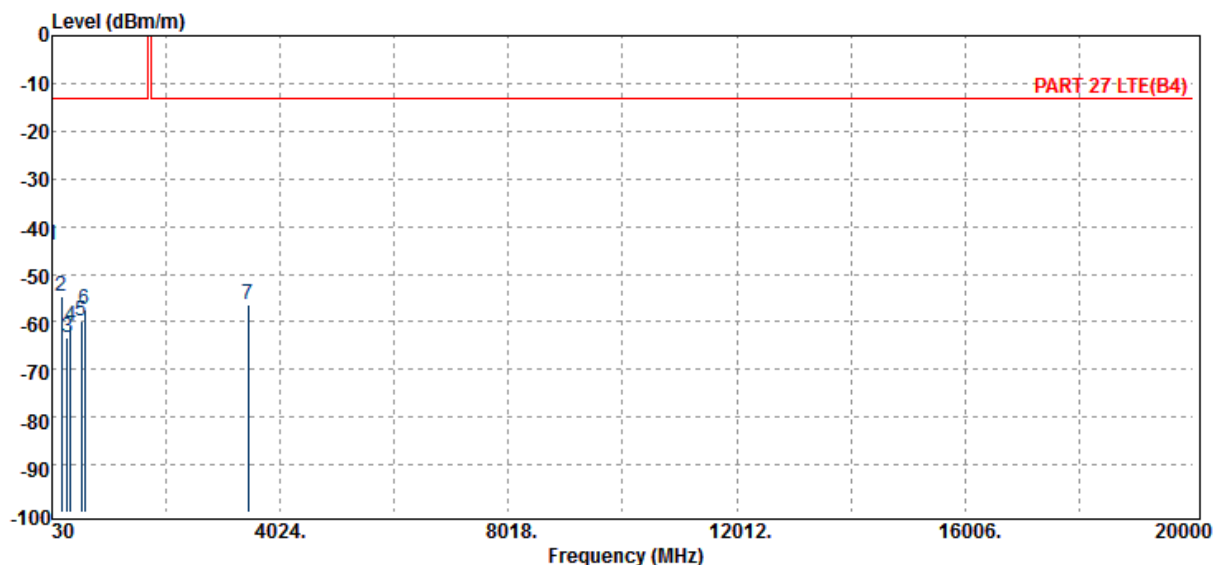
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B4     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1732.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID  |                  |                     |
| EUT Pol.              | :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               | -44.06          | -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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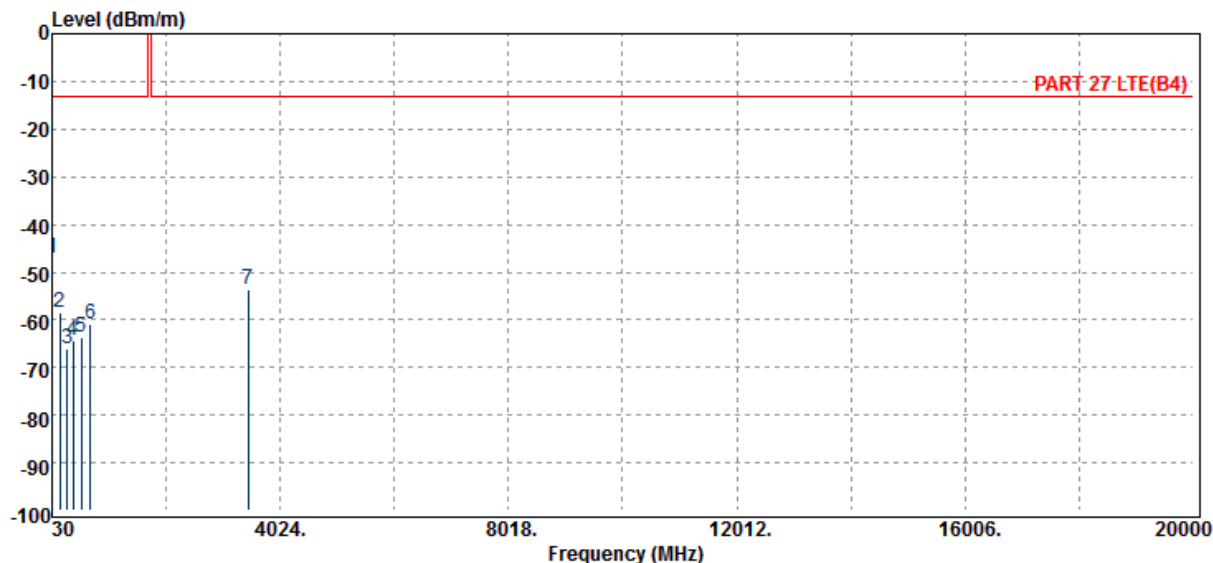
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|                       |             |                          |                     |
|-----------------------|-------------|--------------------------|---------------------|
| Operation Band        | :LTE B4     | Temp./Humi.              | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1732.5 MHz | Engineer                 | :Tin                |
| Operation Mode        | :Tx CH MID  |                          |                     |
| EUT Pol.              | :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               | -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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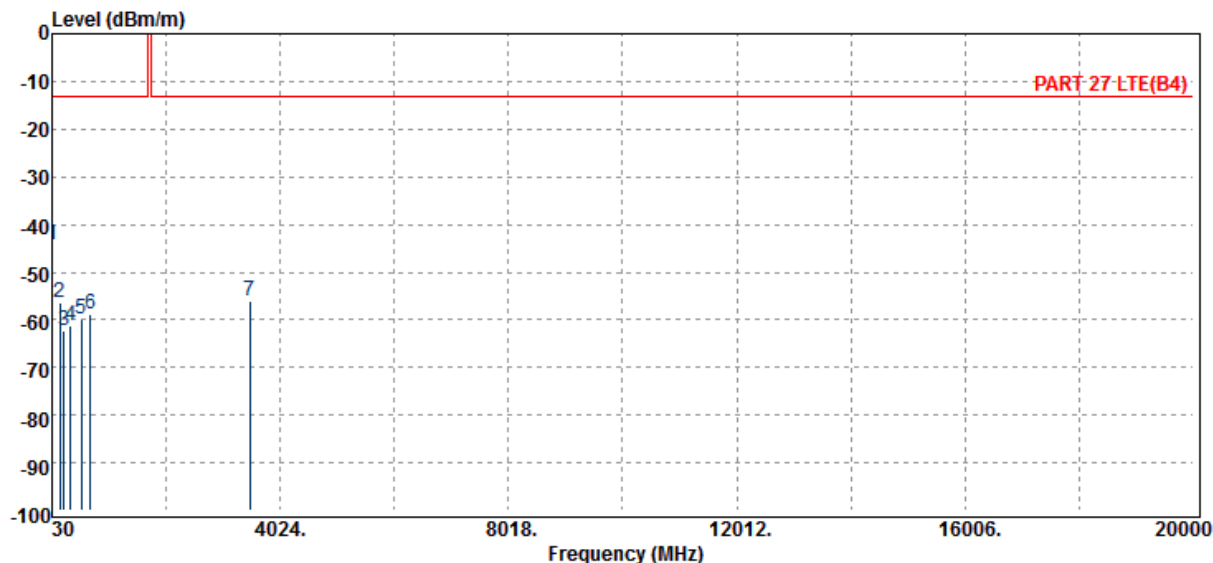
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B4     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1747.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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               | -44.15          | -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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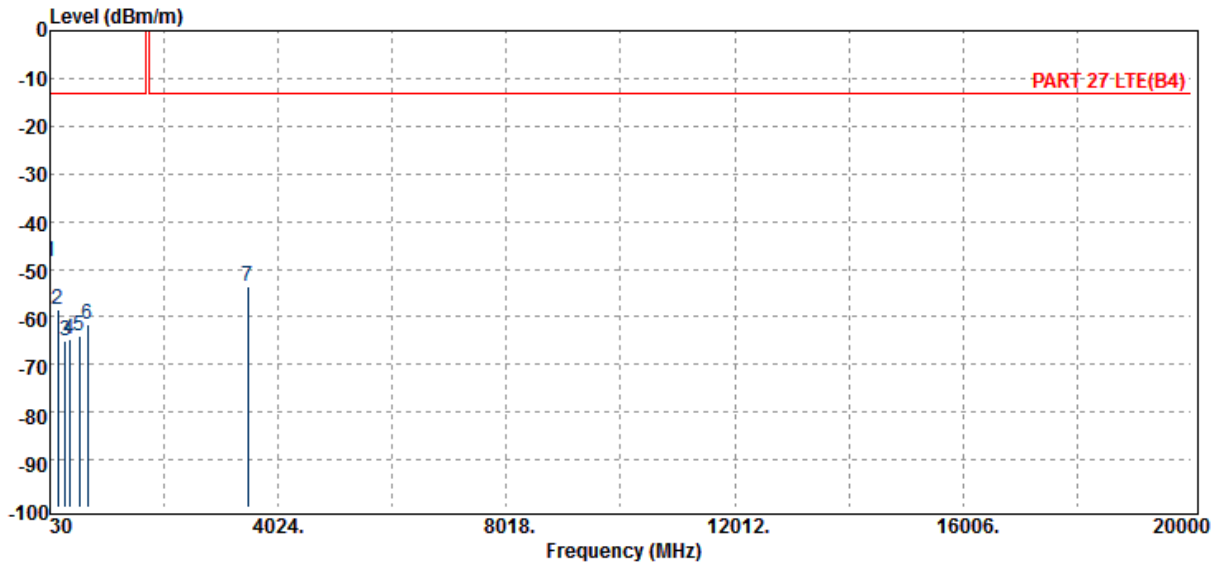
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B4     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1747.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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               | -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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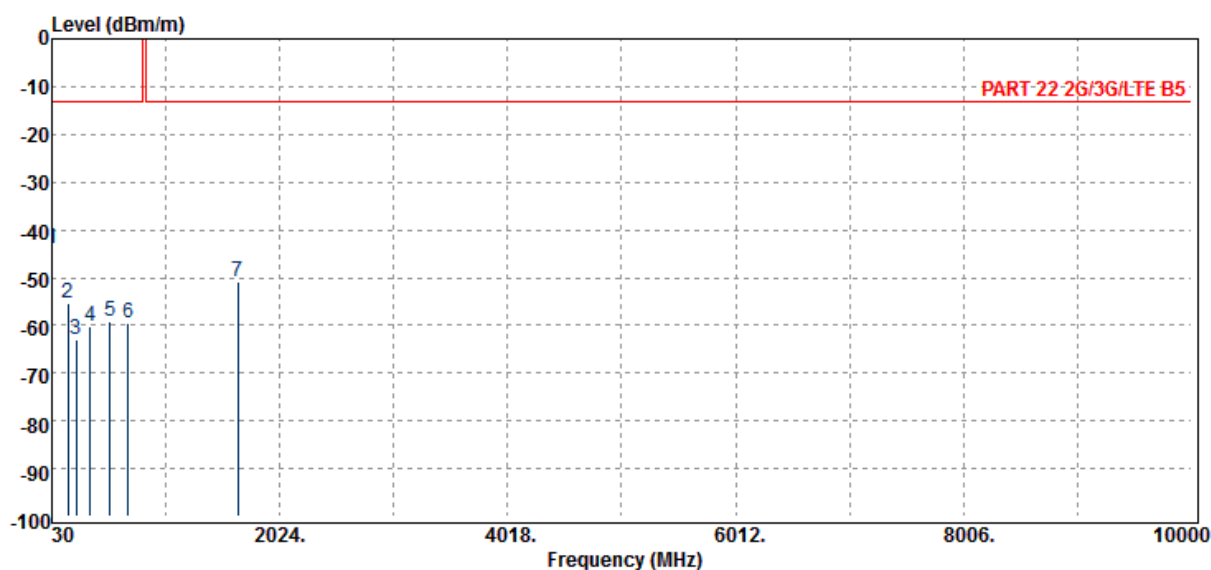
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## Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| 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.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 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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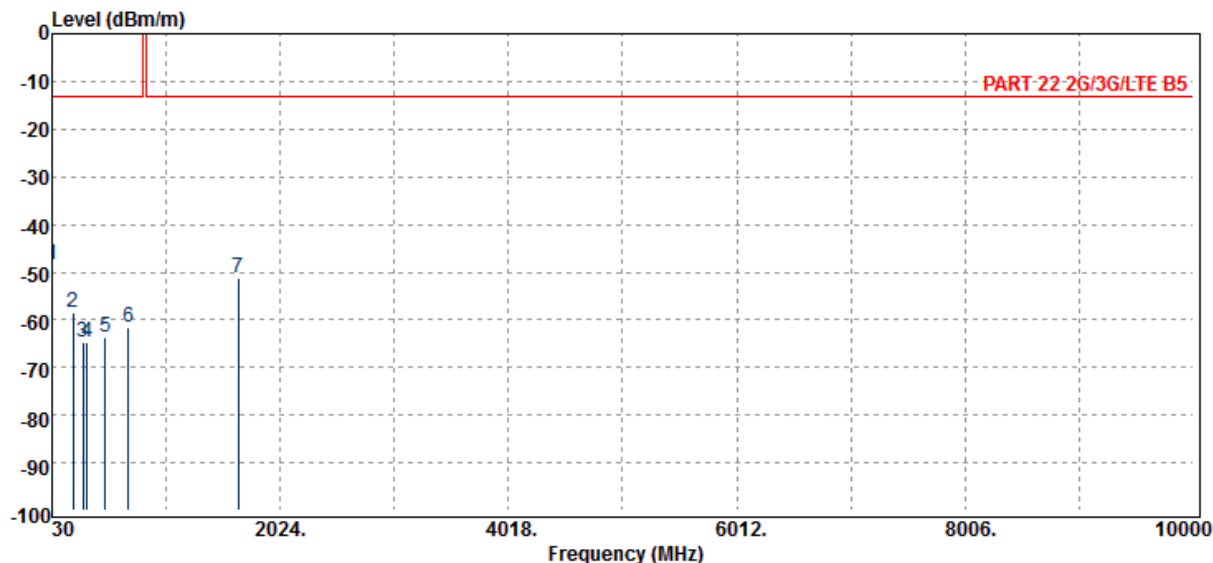
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|                       |            |                          |                     |
|-----------------------|------------|--------------------------|---------------------|
| Operation Band        | :LTE B5    | Temp./Humi.              | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :829 MHz   | Engineer                 | :Tin                |
| Operation Mode        | :Tx CH LOW |                          |                     |
| EUT Pol.              | :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               | -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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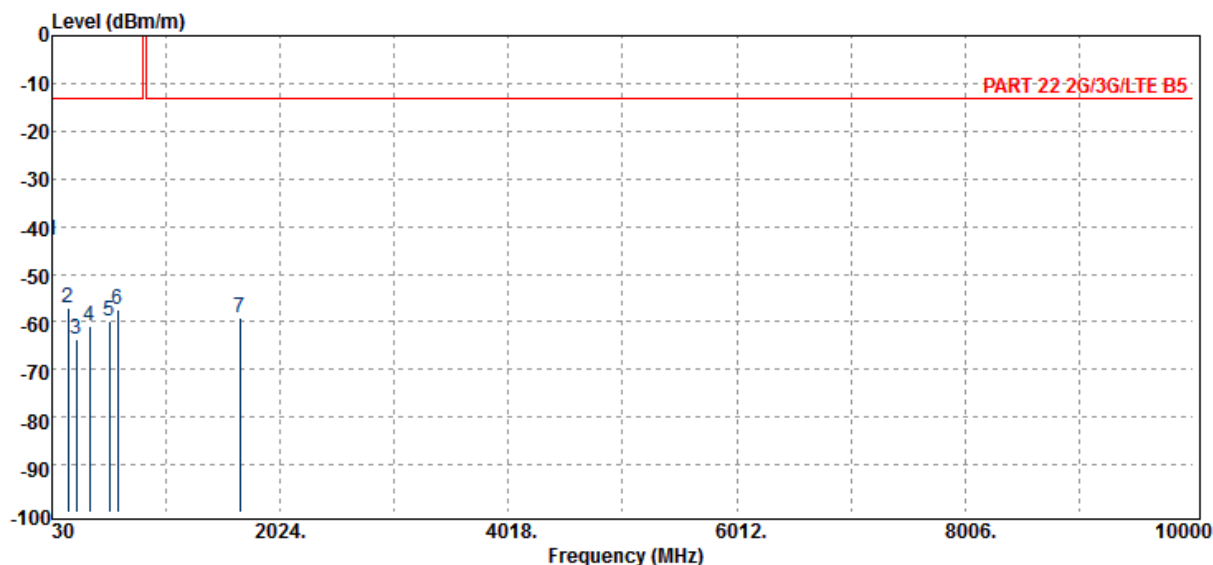
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B5    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :836.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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               | -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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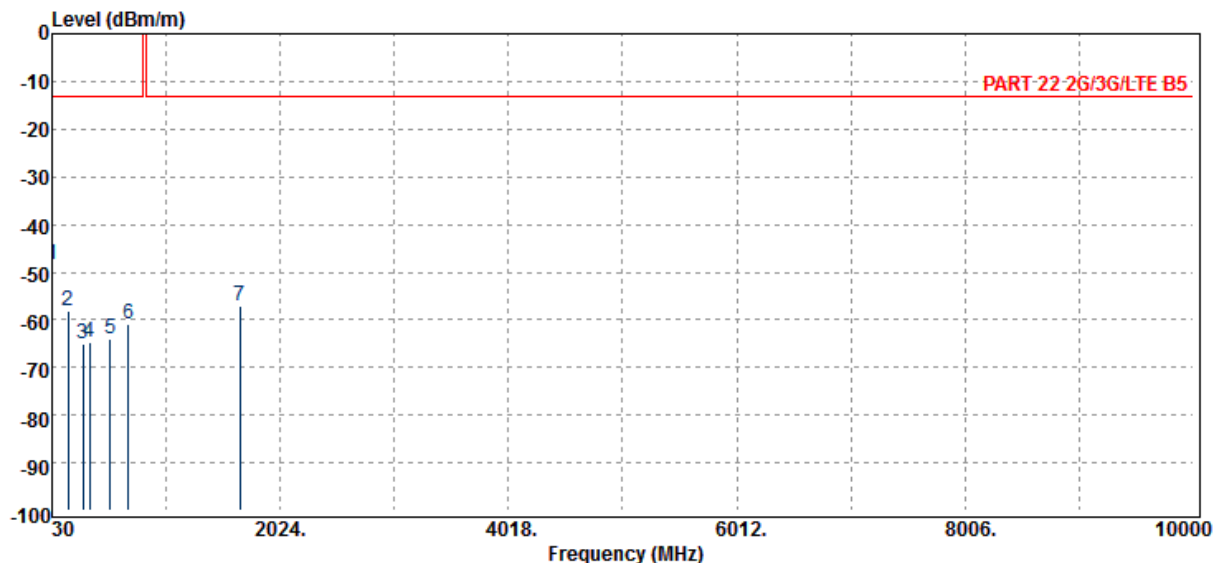
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B5    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :836.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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               | -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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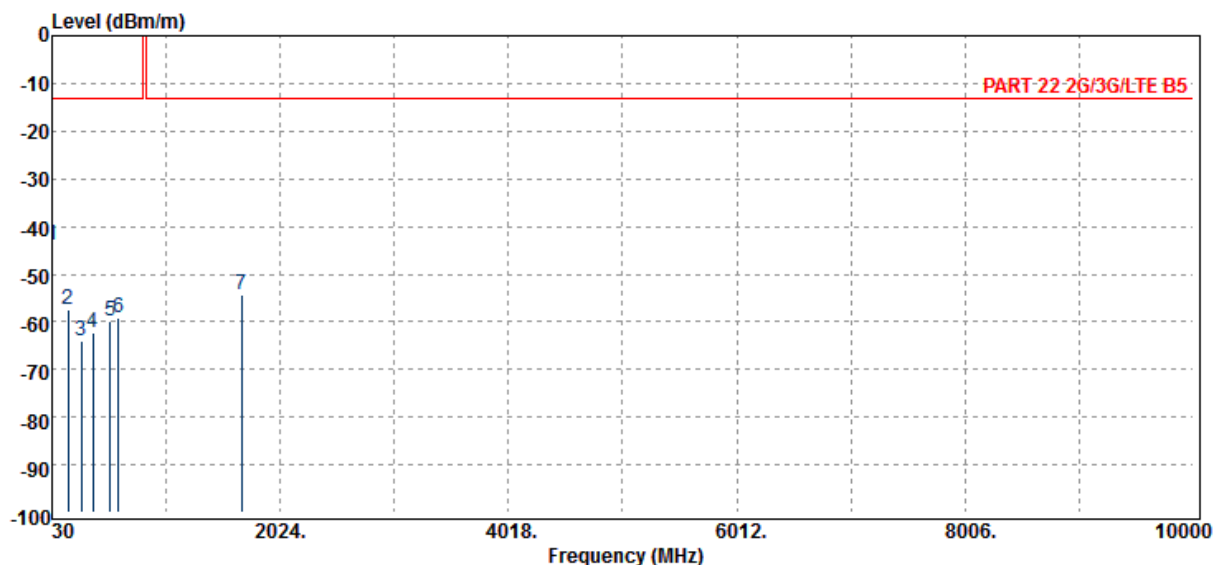
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B5     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :844 MHz    | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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               | -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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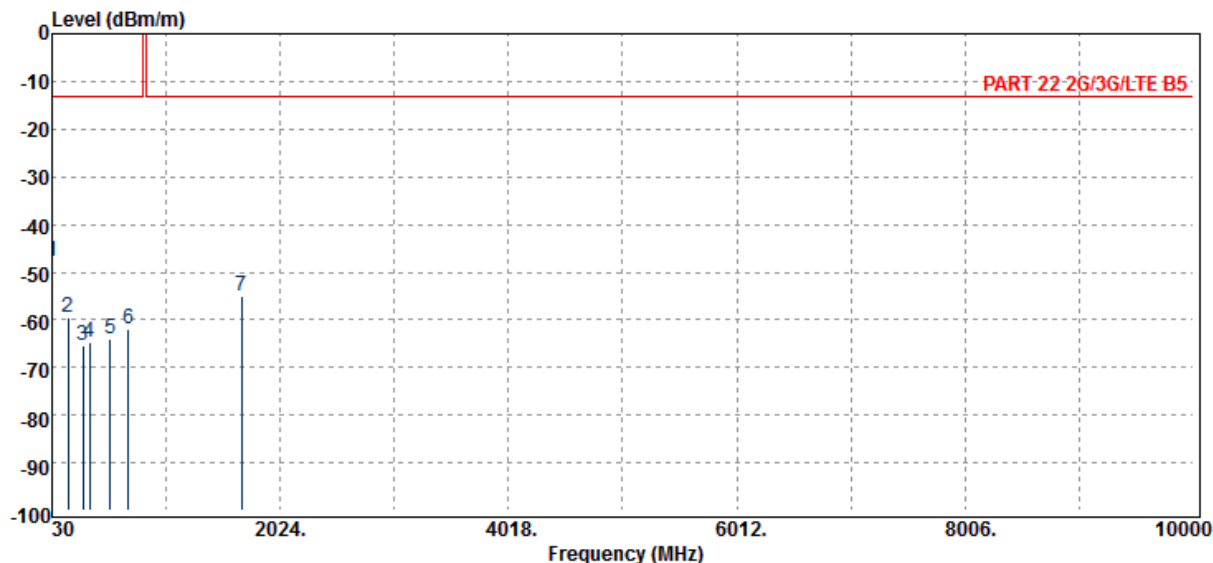
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B5     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :844 MHz    | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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               | -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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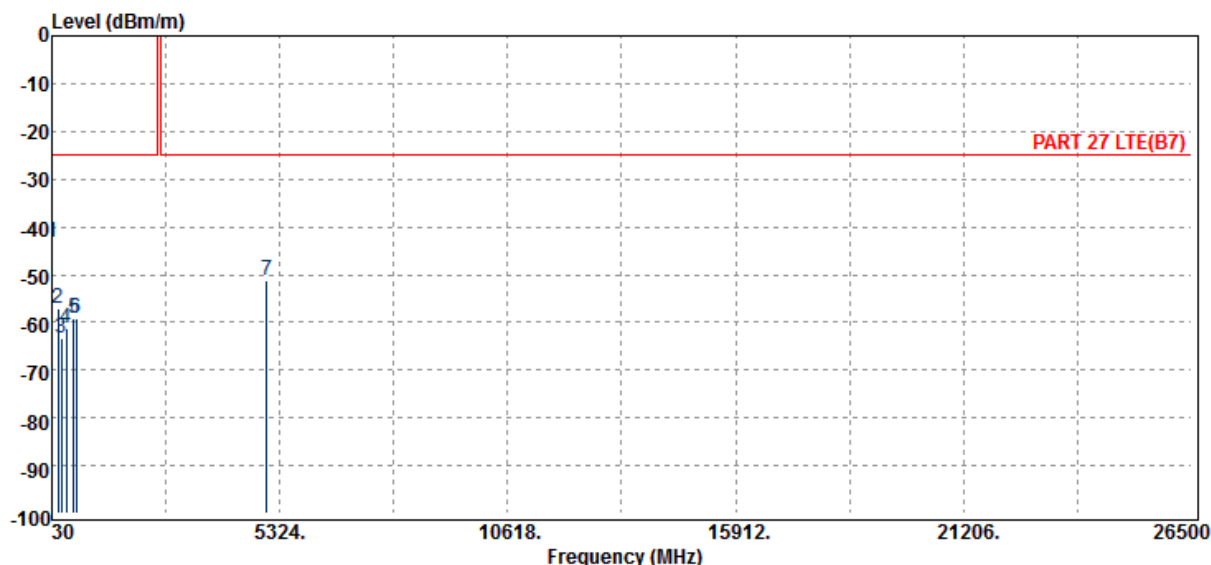
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## Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Band :LTE B7 Temp./Humi. :24.1 deg\_C / 65 RH  
Fundamental Frequency :2510 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               | -43.34          | -28.67                    | -14.08                     | -0.59               | -25.00       | -18.34       |
| 175.50       | S               | -57.04          | -55.95                    | 0.27                       | -1.36               | -25.00       | -32.04       |
| 243.40       | S               | -63.22          | -65.03                    | 3.50                       | -1.68               | -25.00       | -38.22       |
| 366.59       | S               | -61.12          | -62.86                    | 3.81                       | -2.07               | -25.00       | -36.12       |
| 544.10       | S               | -59.11          | -61.31                    | 3.99                       | -1.79               | -25.00       | -34.11       |
| 600.36       | S               | -59.20          | -60.58                    | 3.54                       | -2.16               | -25.00       | -34.20       |
| 5020.00      | H               | -51.27          | -55.78                    | 12.53                      | -8.01               | -25.00       | -26.27       |

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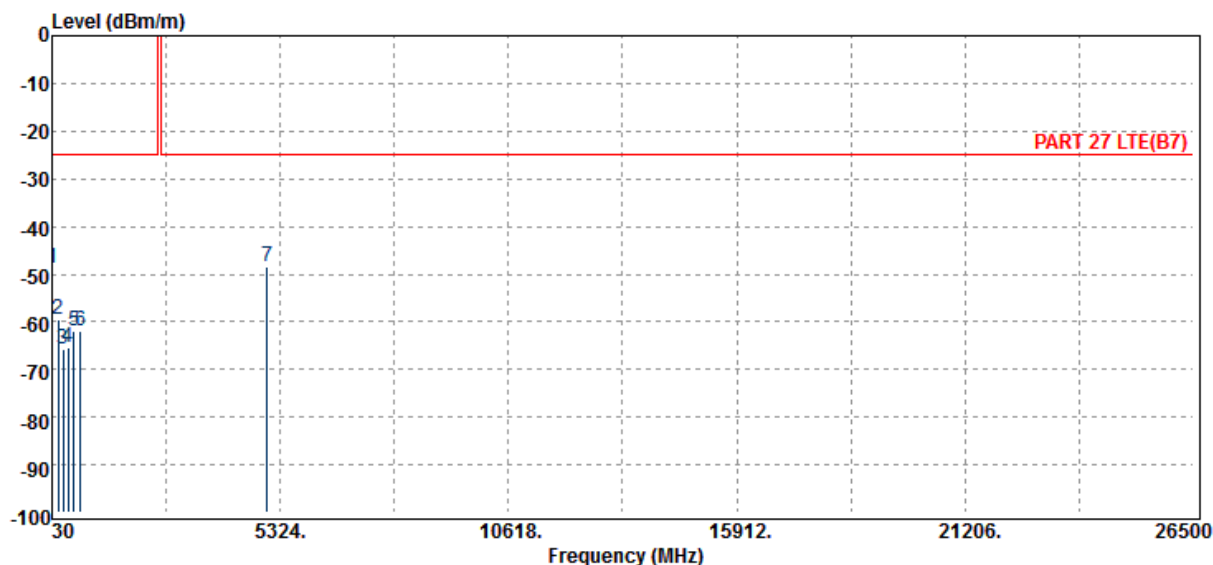
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B7    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2510 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 31.94        | S               | -48.79          | -34.11                    | -14.08                     | -0.59               | -25.00       | -23.79       |
| 173.56       | S               | -59.44          | -58.05                    | -0.04                      | -1.35               | -25.00       | -34.44       |
| 296.75       | S               | -65.64          | -67.38                    | 3.55                       | -1.81               | -25.00       | -40.64       |
| 398.60       | S               | -65.31          | -66.93                    | 3.72                       | -2.10               | -25.00       | -40.31       |
| 542.16       | S               | -62.03          | -64.16                    | 3.99                       | -1.87               | -25.00       | -37.03       |
| 689.60       | S               | -61.91          | -62.64                    | 3.71                       | -2.98               | -25.00       | -36.91       |
| 5020.00      | H               | -48.37          | -52.88                    | 12.53                      | -8.01               | -25.00       | -23.37       |

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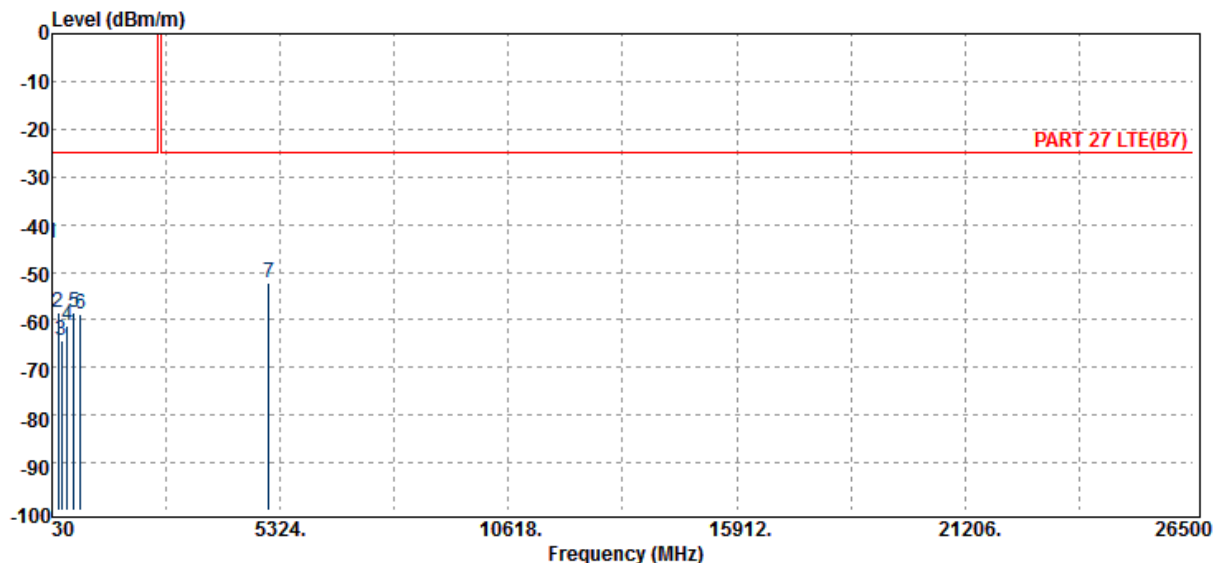
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B7    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2535 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 31.94        | S               | -43.91          | -29.24                    | -14.08                     | -0.59               | -25.00       | -18.91       |
| 173.56       | S               | -58.38          | -56.99                    | -0.04                      | -1.35               | -25.00       | -33.38       |
| 241.46       | S               | -64.36          | -66.17                    | 3.49                       | -1.68               | -25.00       | -39.36       |
| 390.84       | S               | -61.17          | -62.86                    | 3.74                       | -2.05               | -25.00       | -36.17       |
| 537.31       | S               | -58.63          | -60.56                    | 4.00                       | -2.07               | -25.00       | -33.63       |
| 699.30       | S               | -58.83          | -60.27                    | 3.68                       | -2.24               | -25.00       | -33.83       |
| 5064.00      | H               | -52.33          | -56.81                    | 12.58                      | -8.10               | -25.00       | -27.33       |

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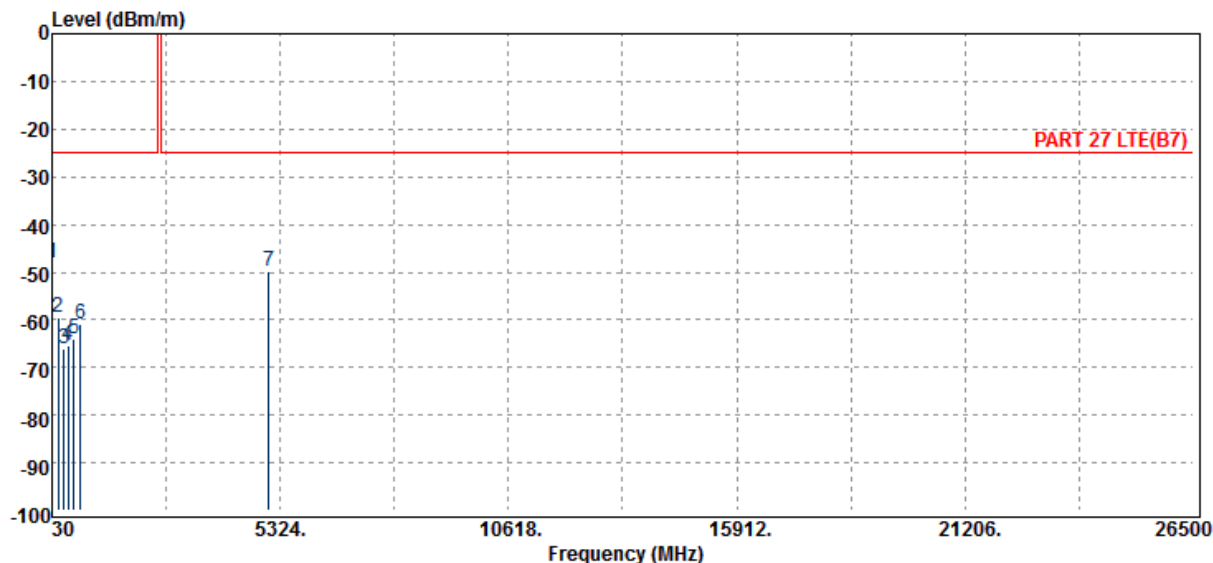
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|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B7    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2535 MHz  | Engineer         | :Tin                |
| Operation 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               | -48.02          | -32.86                    | -14.58                     | -0.58               | -25.00       | -23.02       |
| 173.56       | S               | -59.44          | -58.05                    | -0.04                      | -1.35               | -25.00       | -34.44       |
| 299.66       | S               | -66.19          | -67.98                    | 3.61                       | -1.82               | -25.00       | -41.19       |
| 410.24       | S               | -65.42          | -66.96                    | 3.68                       | -2.13               | -25.00       | -40.42       |
| 536.34       | S               | -64.07          | -65.96                    | 4.00                       | -2.11               | -25.00       | -39.07       |
| 699.30       | S               | -60.90          | -62.34                    | 3.68                       | -2.24               | -25.00       | -35.90       |
| 5064.00      | H               | -49.77          | -54.25                    | 12.58                      | -8.10               | -25.00       | -24.77       |

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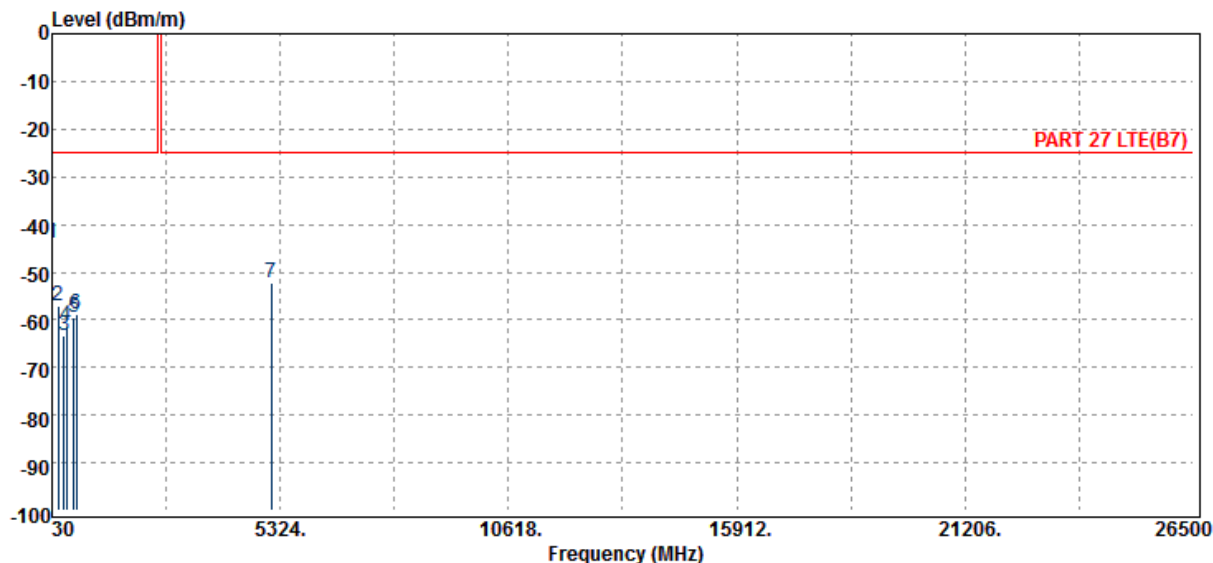
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B7     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2560 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | S               | -43.85          | -29.41                    | -13.84                     | -0.60               | -25.00       | -18.85       |
| 170.65       | S               | -57.21          | -55.36                    | -0.51                      | -1.33               | -25.00       | -32.21       |
| 299.66       | S               | -63.45          | -65.24                    | 3.61                       | -1.82               | -25.00       | -38.45       |
| 356.89       | S               | -61.36          | -63.15                    | 3.83                       | -2.05               | -25.00       | -36.36       |
| 542.16       | S               | -59.57          | -61.69                    | 3.99                       | -1.87               | -25.00       | -34.57       |
| 590.66       | S               | -58.91          | -60.32                    | 3.62                       | -2.21               | -25.00       | -33.91       |
| 5120.00      | H               | -52.40          | -56.95                    | 12.65                      | -8.10               | -25.00       | -27.40       |

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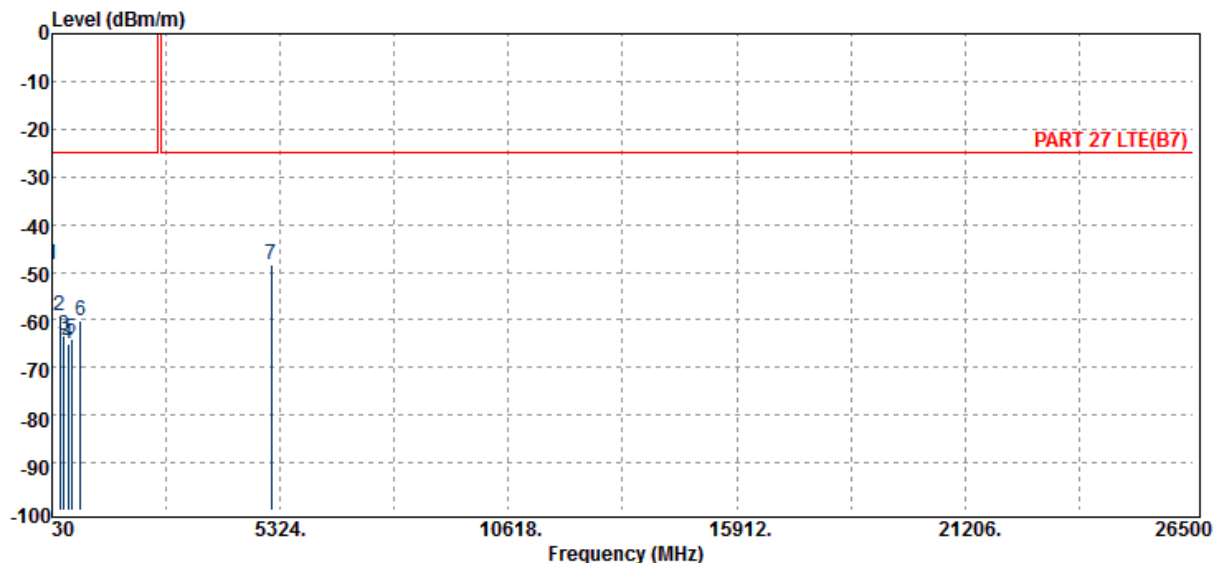
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B7     | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2560 MHz   | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :E2 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       | -48.31   | -33.15              | -14.58          | -0.58      | -25.00 | -23.31 |
| 212.36  | S       | -59.31   | -61.39              | 3.62            | -1.54      | -25.00 | -34.31 |
| 299.66  | S       | -63.47   | -65.25              | 3.61            | -1.82      | -25.00 | -38.47 |
| 396.66  | S       | -65.19   | -66.82              | 3.72            | -2.09      | -25.00 | -40.19 |
| 483.96  | S       | -63.92   | -65.95              | 3.89            | -1.85      | -25.00 | -38.92 |
| 689.60  | S       | -60.22   | -60.94              | 3.71            | -2.98      | -25.00 | -35.22 |
| 5120.00 | H       | -48.42   | -52.96              | 12.65           | -8.10      | -25.00 | -23.42 |

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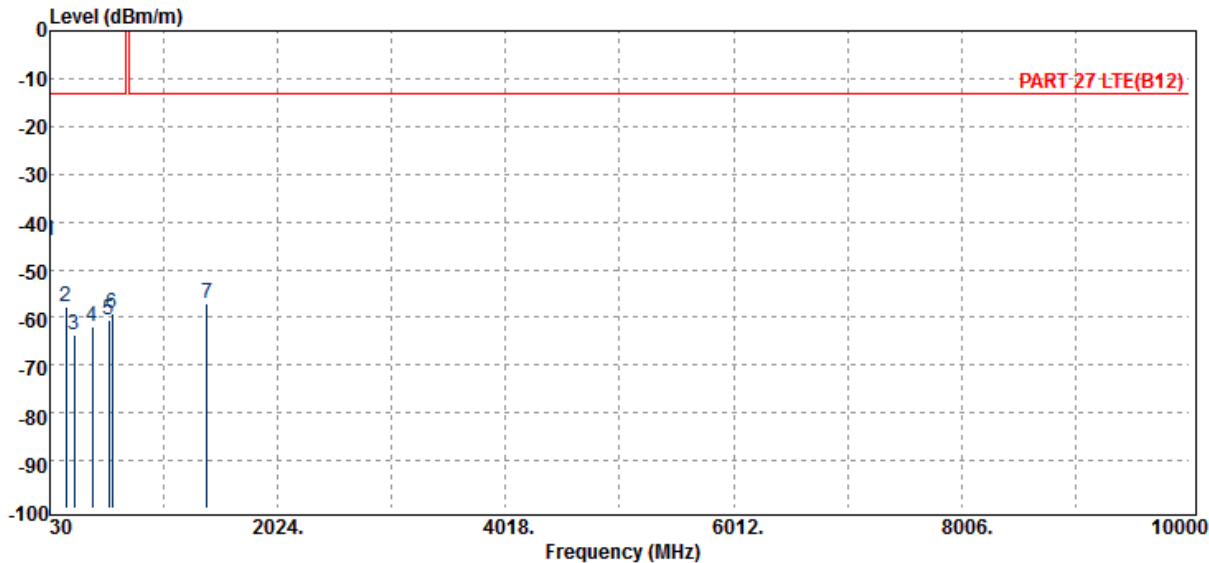
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## Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| 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.              | :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               | -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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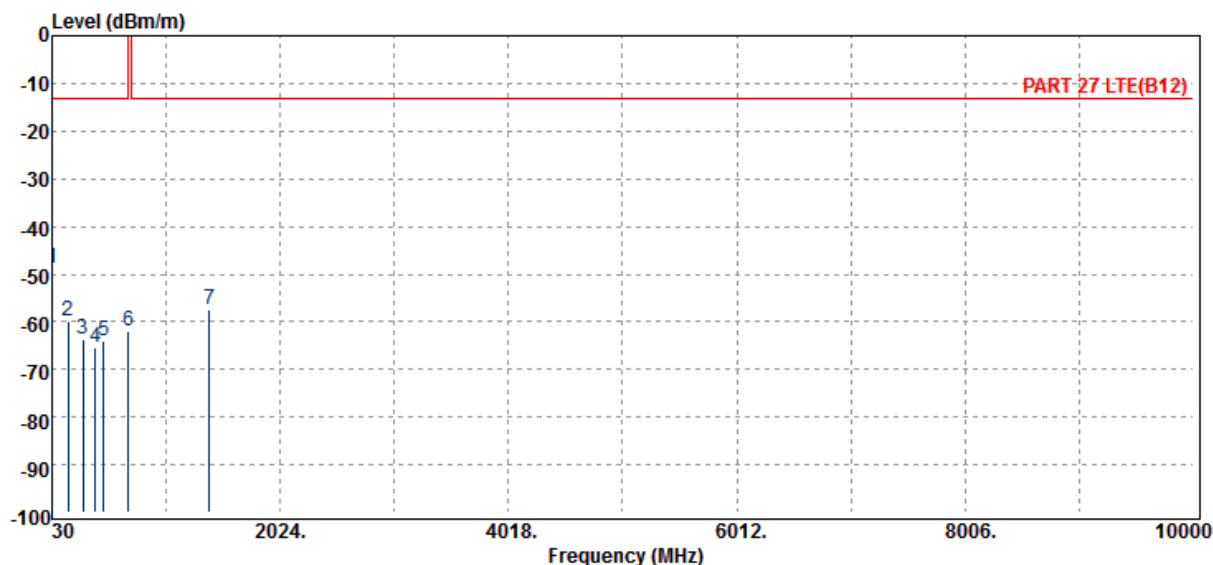
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B12   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :701.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :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               | -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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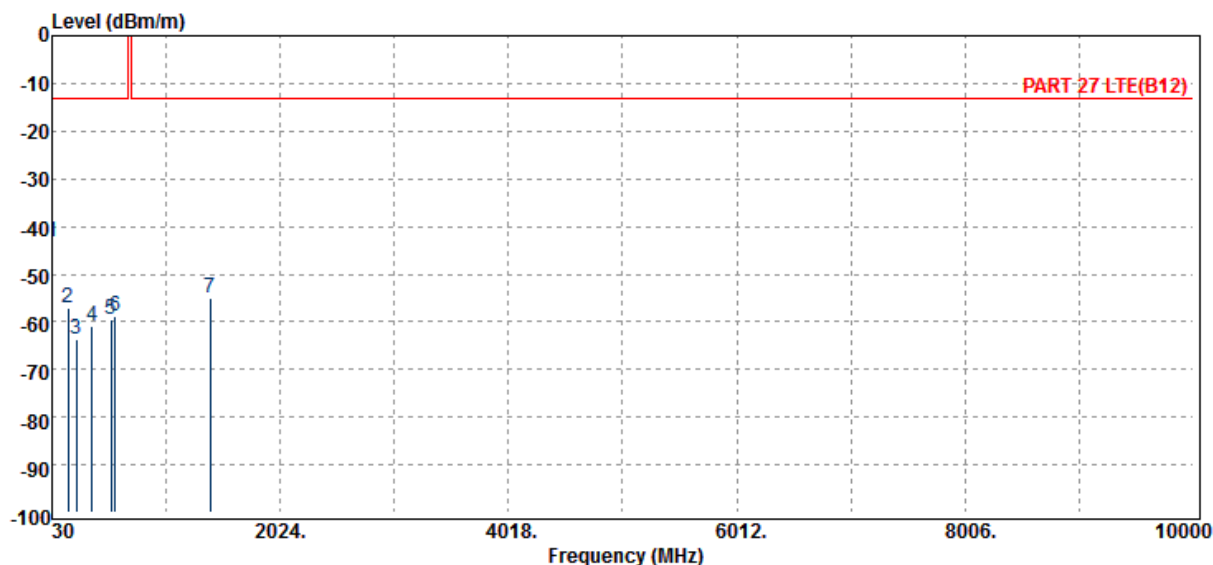
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B12   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :707.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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               | -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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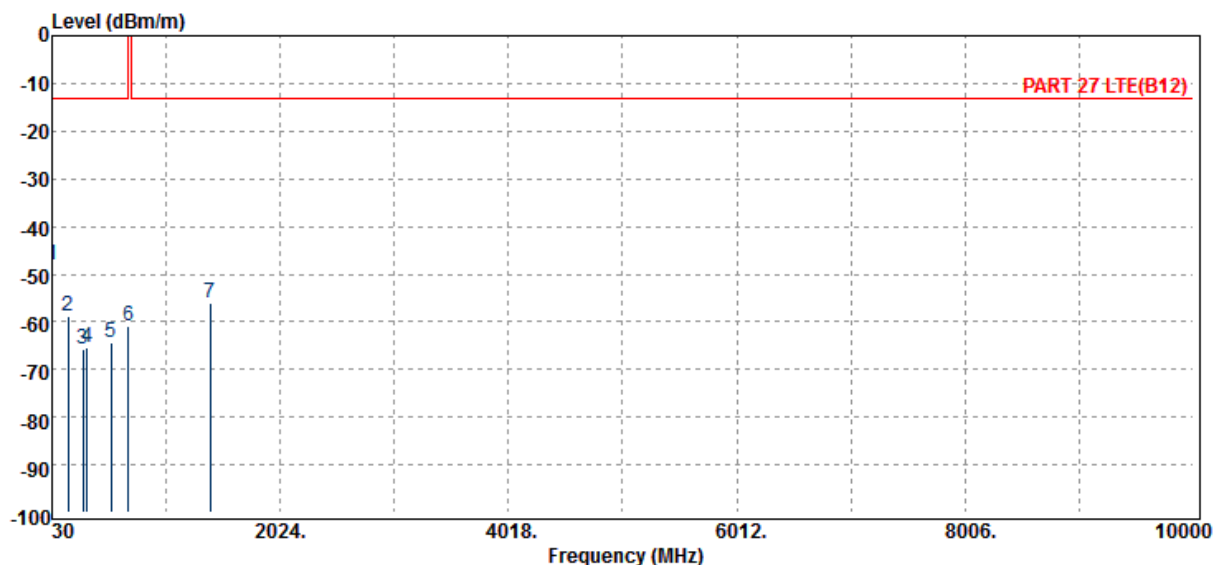
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B12   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :707.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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               | -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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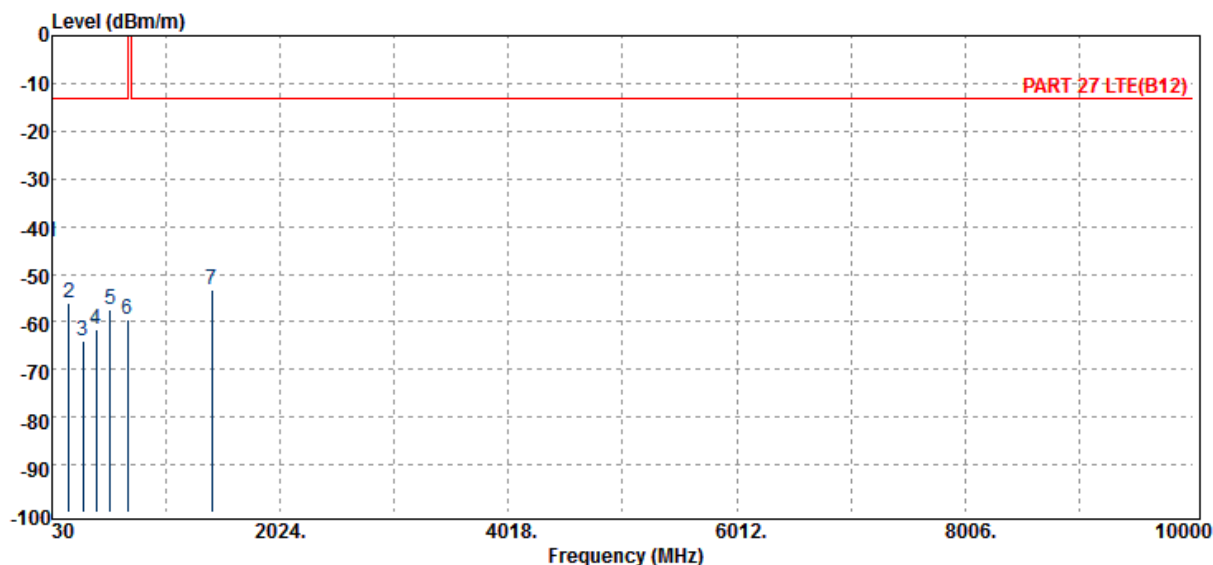
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B12    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :713.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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               | -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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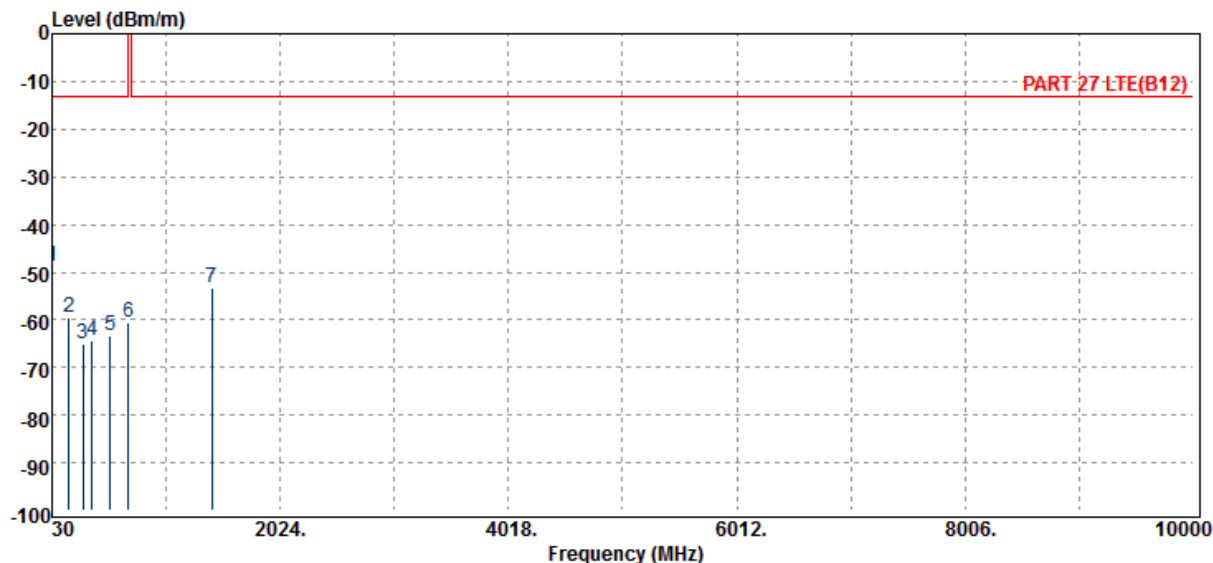
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B12    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :713.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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               | -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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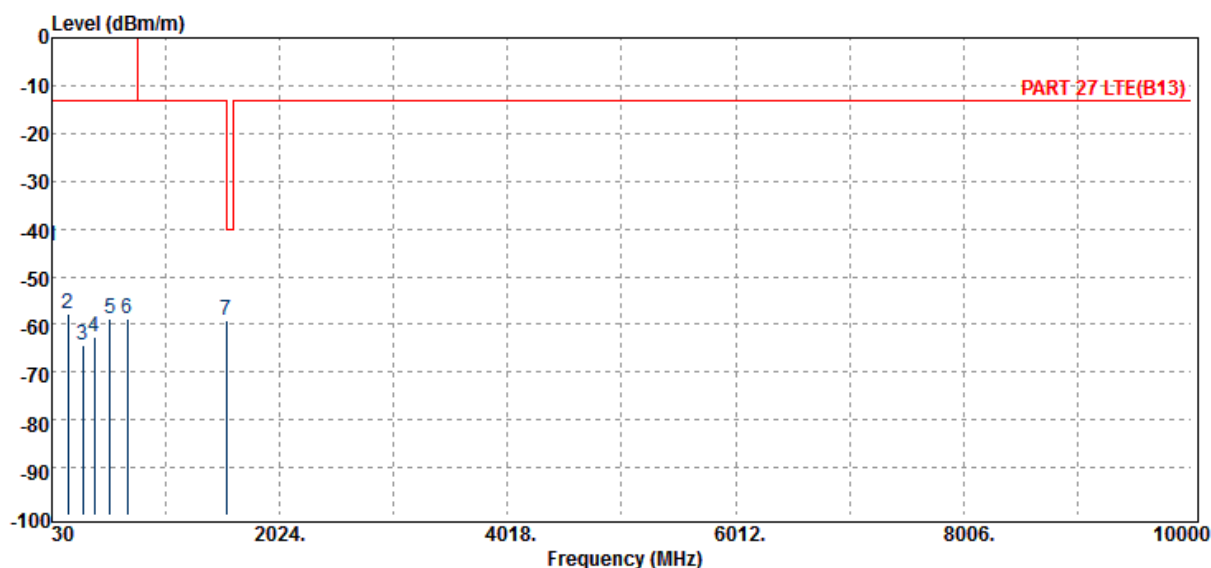
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## Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| 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.              | :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               | -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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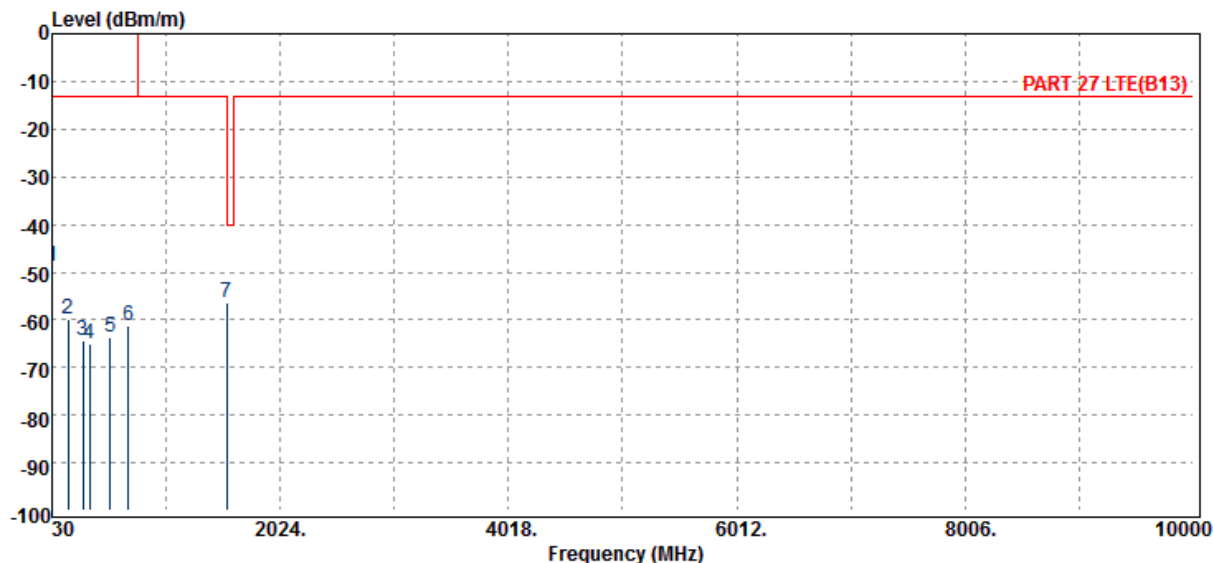
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :779.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :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               | -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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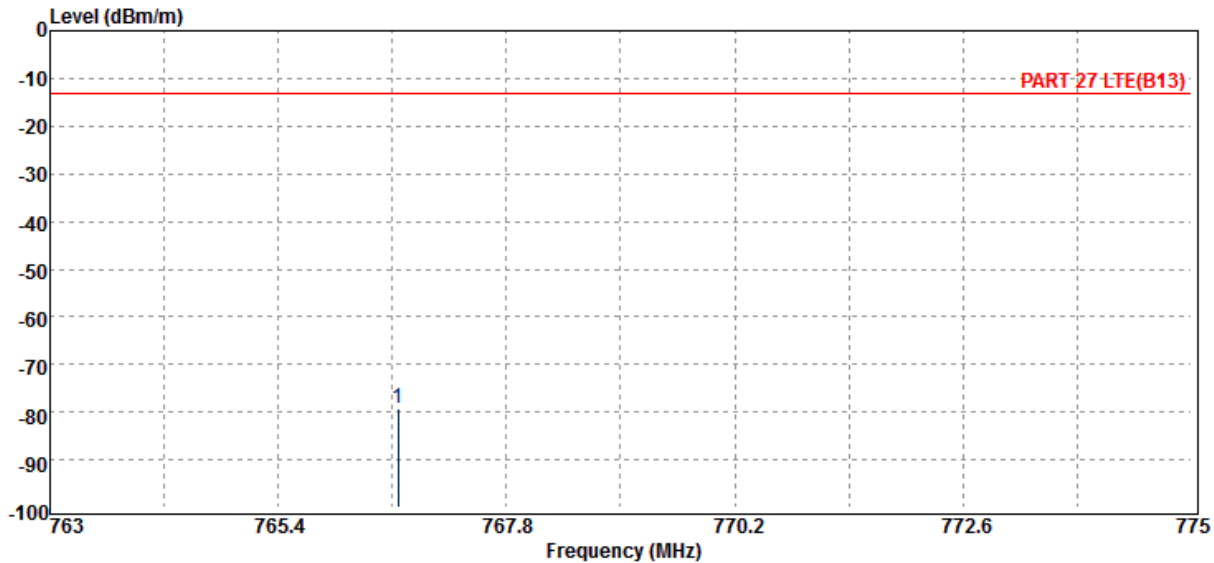
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :779.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 766.66       | S               | -79.27          | -81.10                    | 3.46                       | -1.64               | -13.00       | -66.27       |

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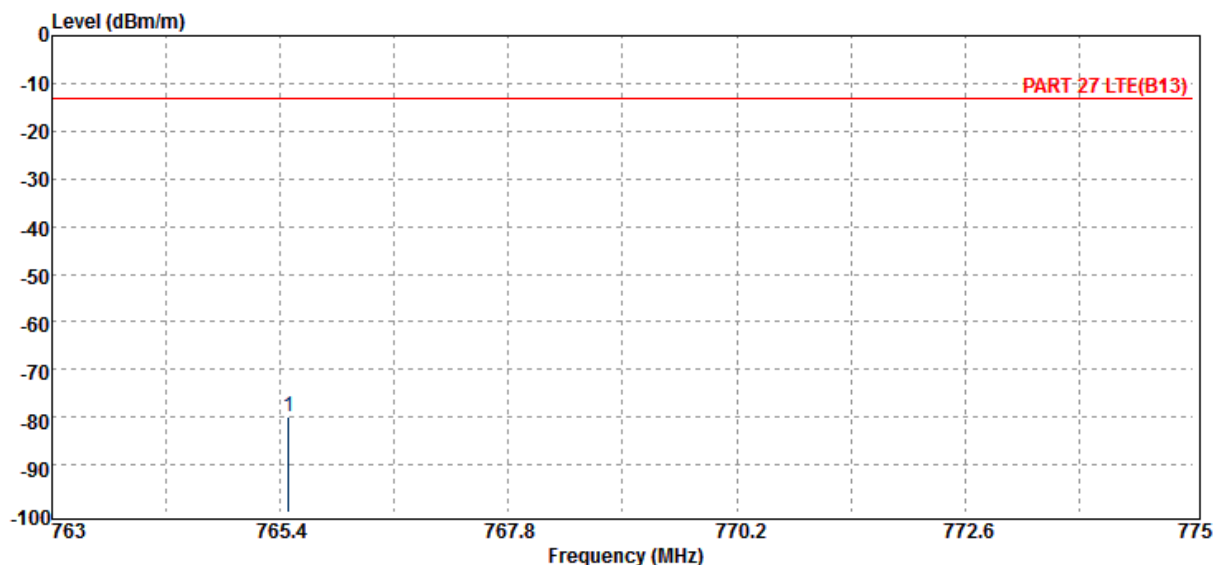
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :779.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 765.48       | S               | -79.85          | -81.81                    | 3.46                       | -1.50               | -13.00       | -66.85       |

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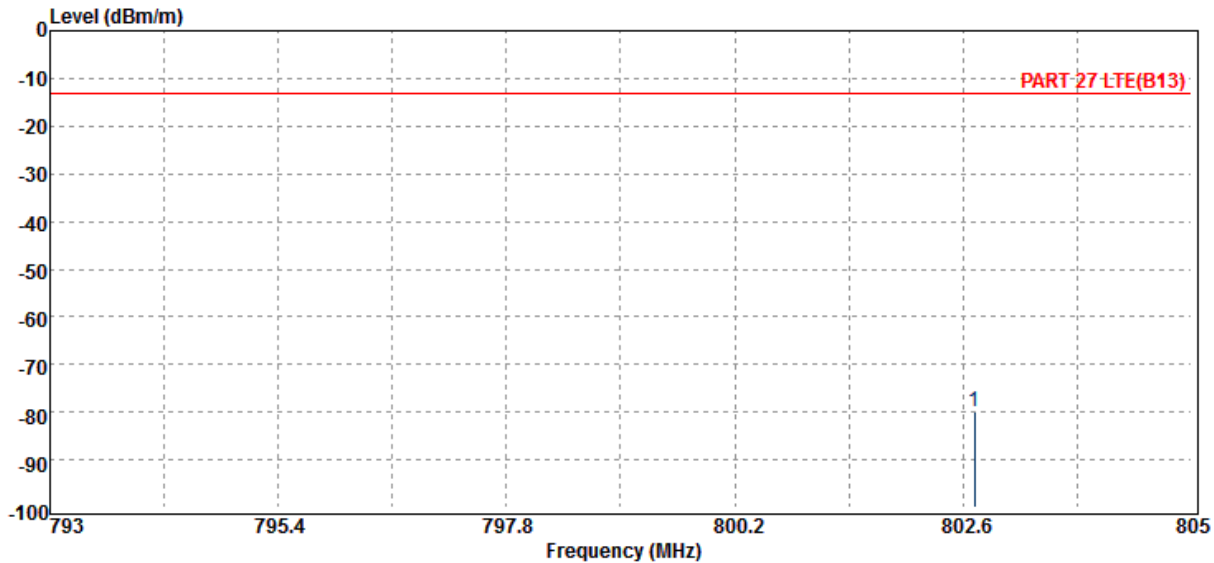
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :779.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 802.72       | S               | -79.81          | -81.06                    | 3.44                       | -2.18               | -13.00       | -66.81       |

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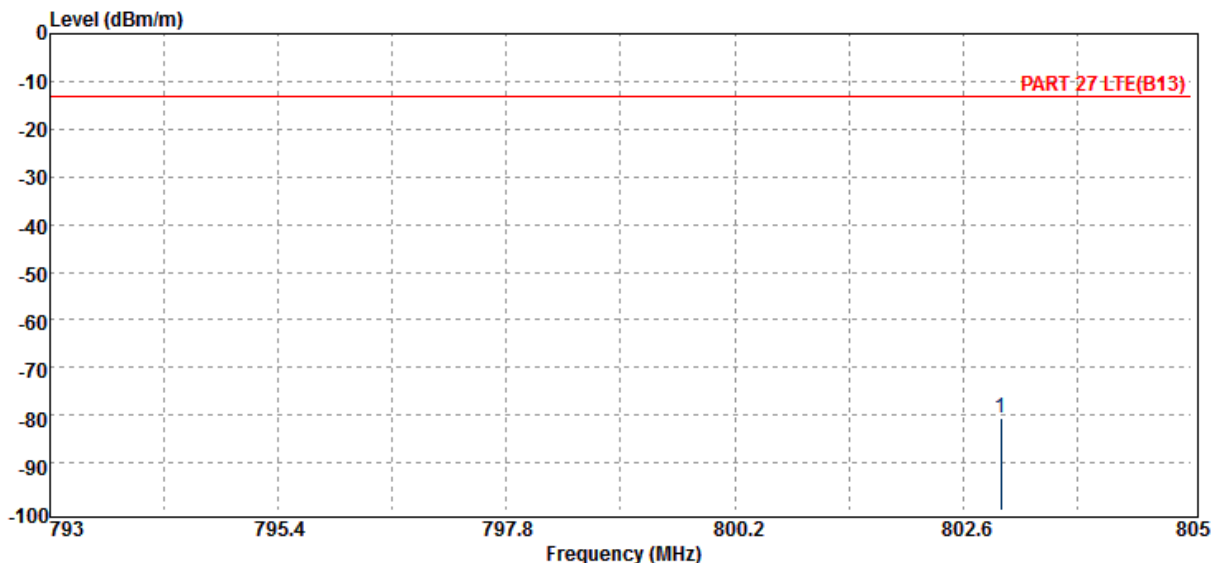
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :779.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 803.00       | S               | -80.51          | -81.79                    | 3.44                       | -2.16               | -13.00       | -67.51       |

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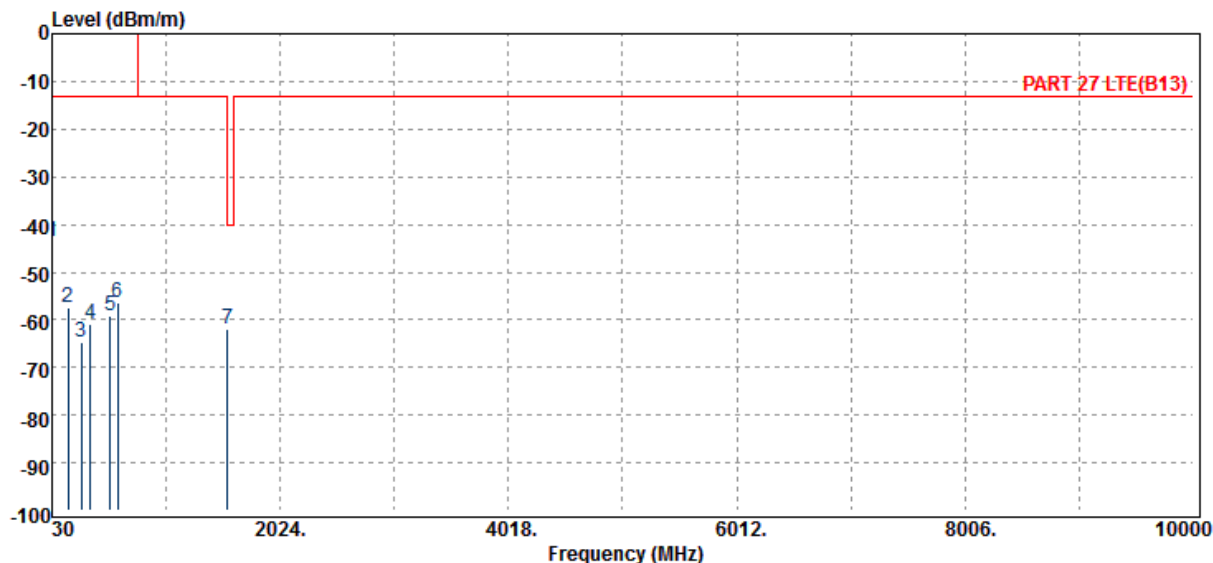
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|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :782.0 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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               | -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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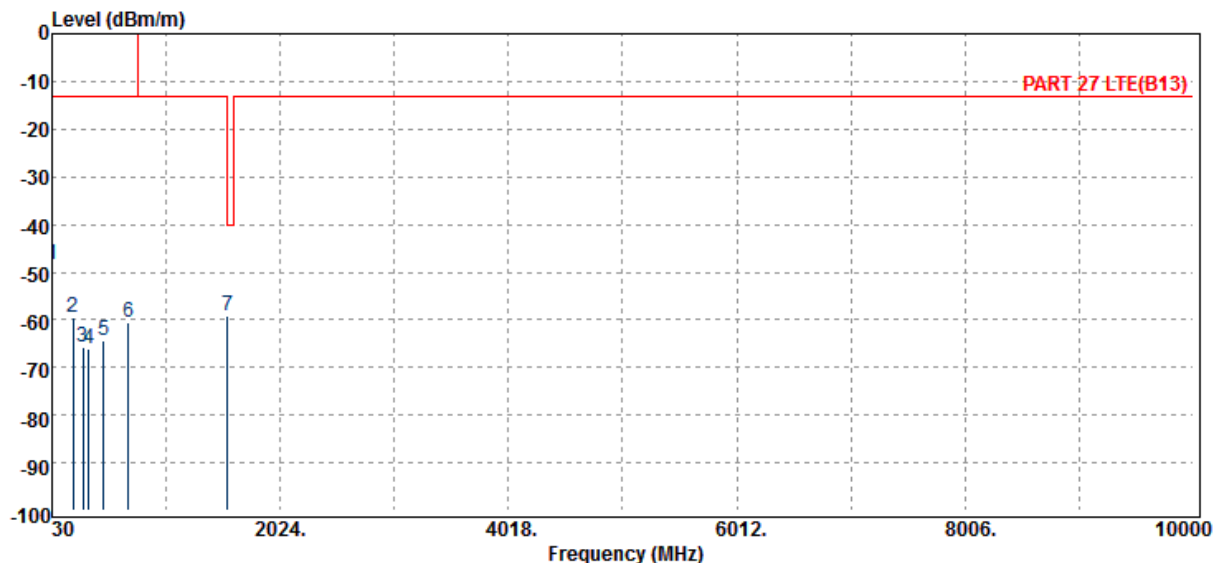
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :782.0 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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               | -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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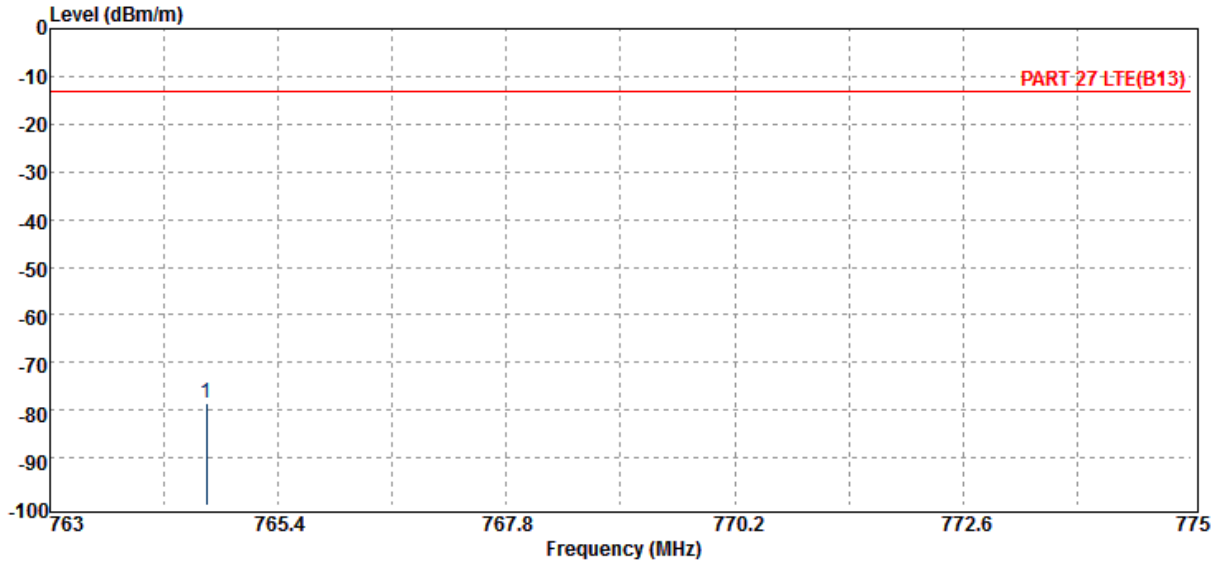
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :782.0 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 764.64       | S               | -78.69          | -80.68                    | 3.46                       | -1.47               | -13.00       | -65.69       |

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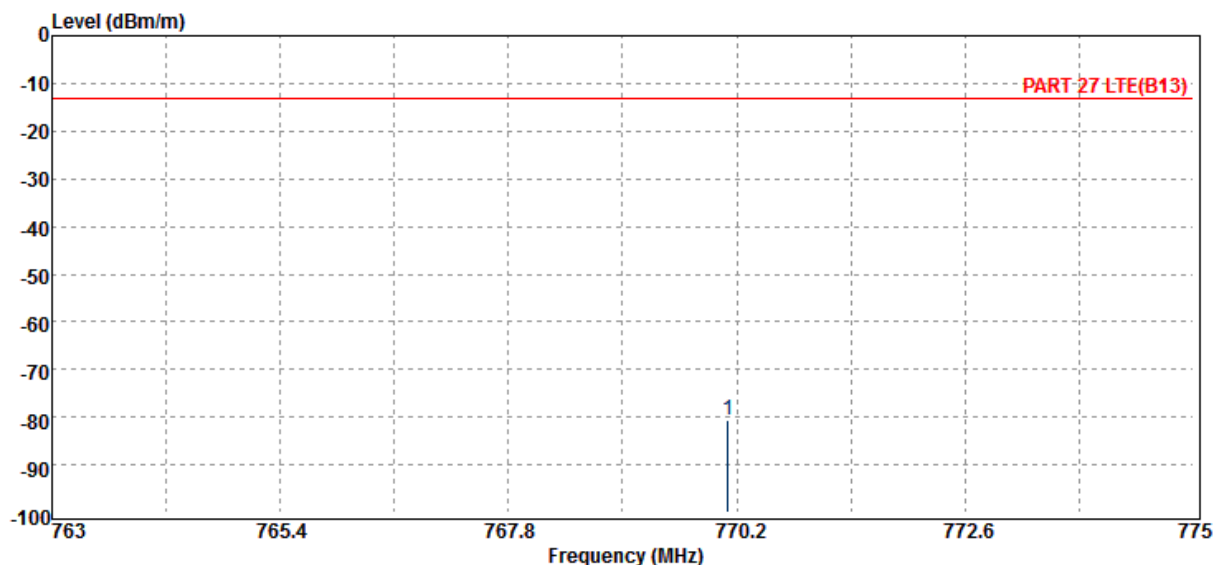
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :782.0 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 770.10       | S               | -80.68          | -82.11                    | 3.46                       | -2.03               | -13.00       | -67.68       |

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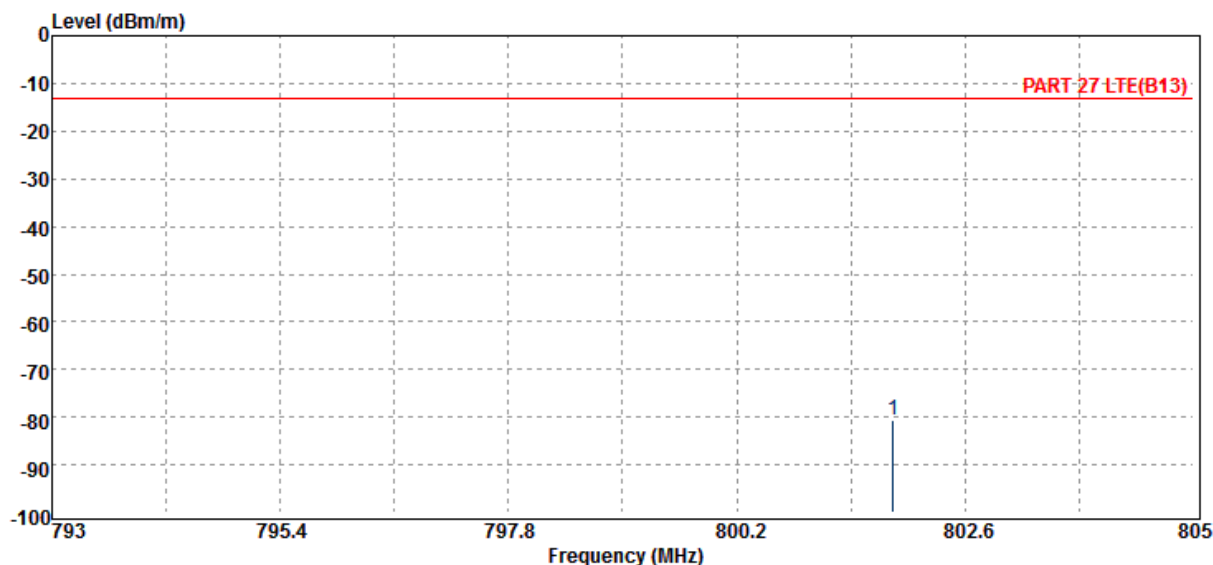
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|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :782.0 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 801.84       | S               | -80.47          | -81.65                    | 3.44                       | -2.26               | -13.00       | -67.47       |

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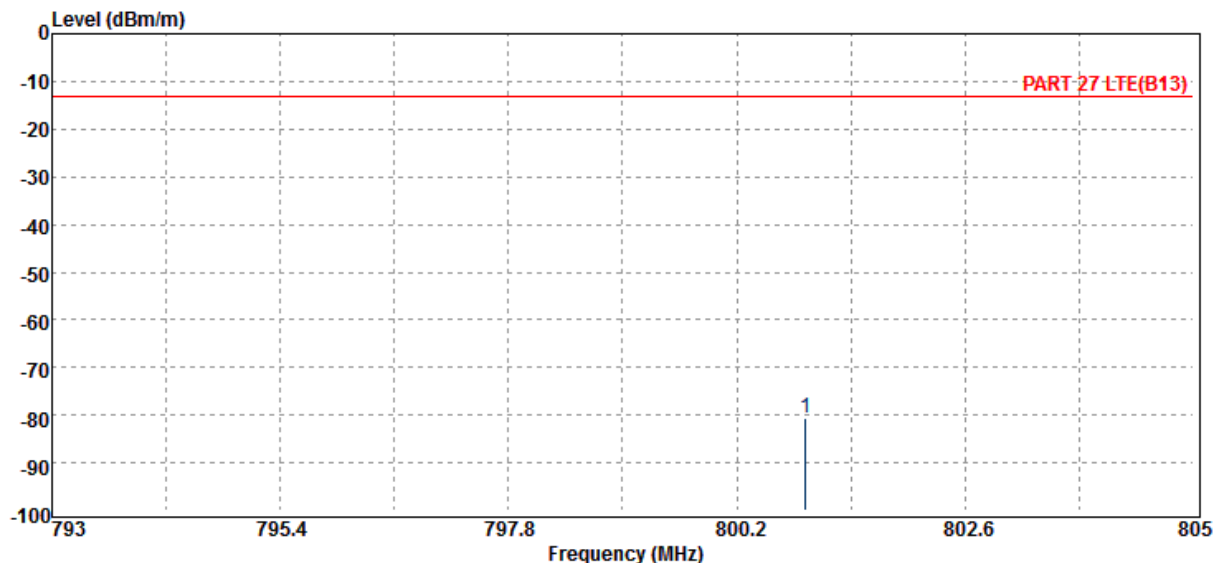
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B13   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :782.0 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 800.92       | S               | -80.54          | -81.63                    | 3.44                       | -2.34               | -13.00       | -67.54       |

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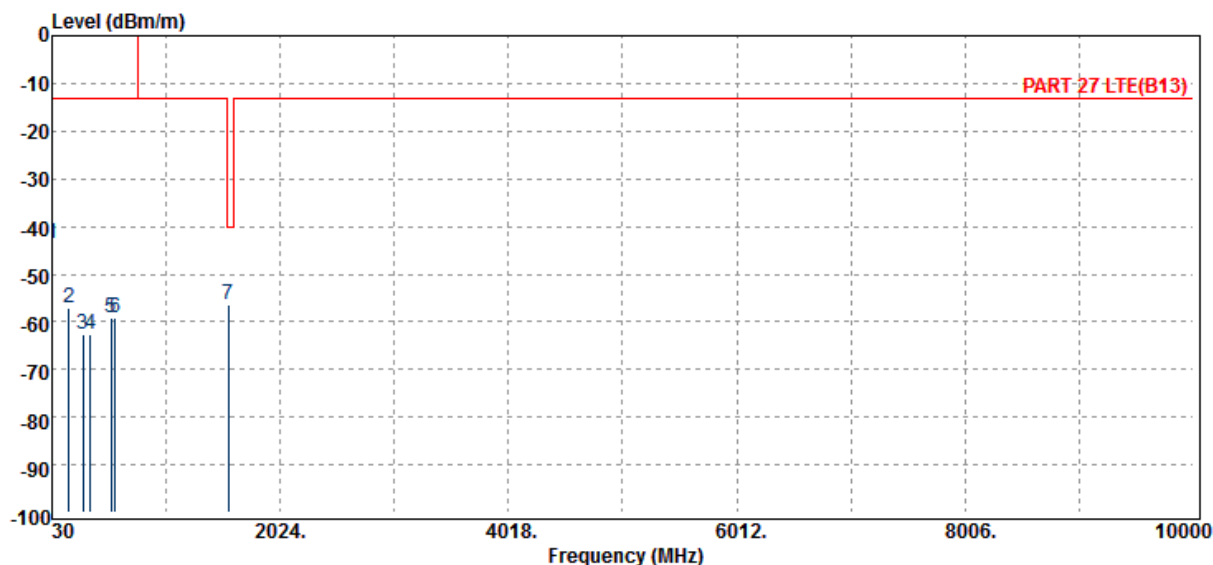
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B13    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :784.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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               | -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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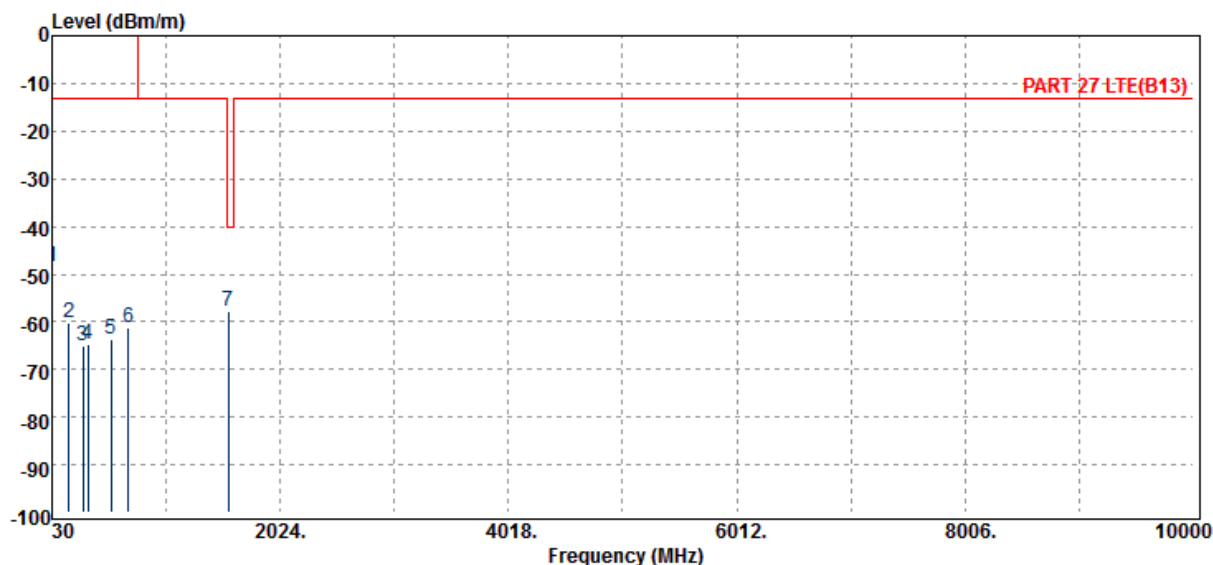
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B13    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :784.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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               | -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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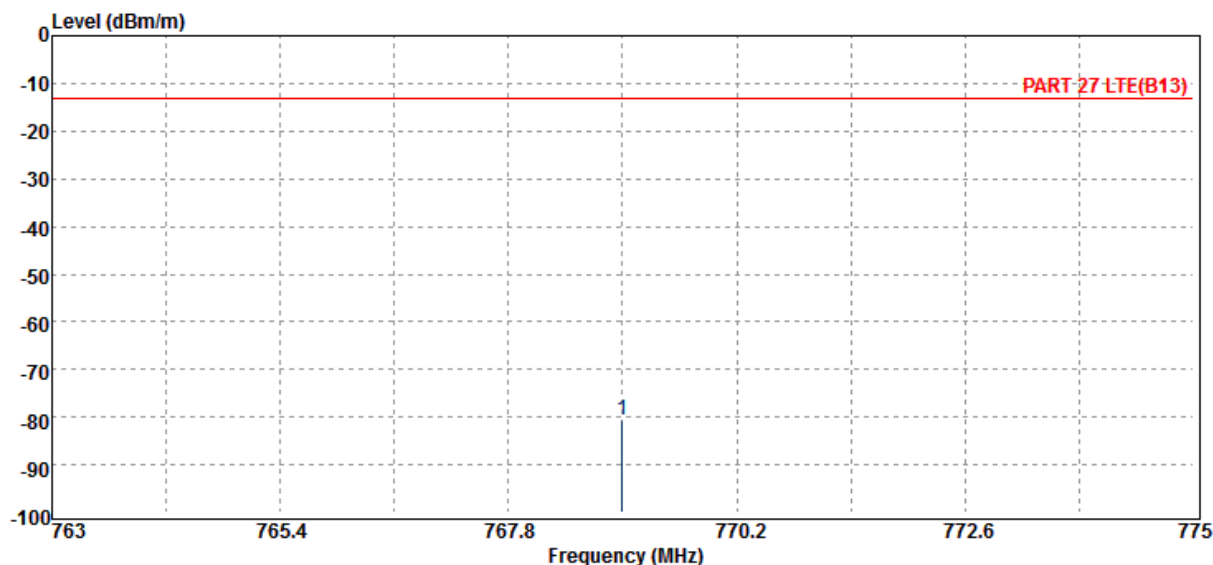
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|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B13    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :784.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 769.00       | S               | -80.61          | -82.16                    | 3.46                       | -1.90               | -13.00       | -67.61       |

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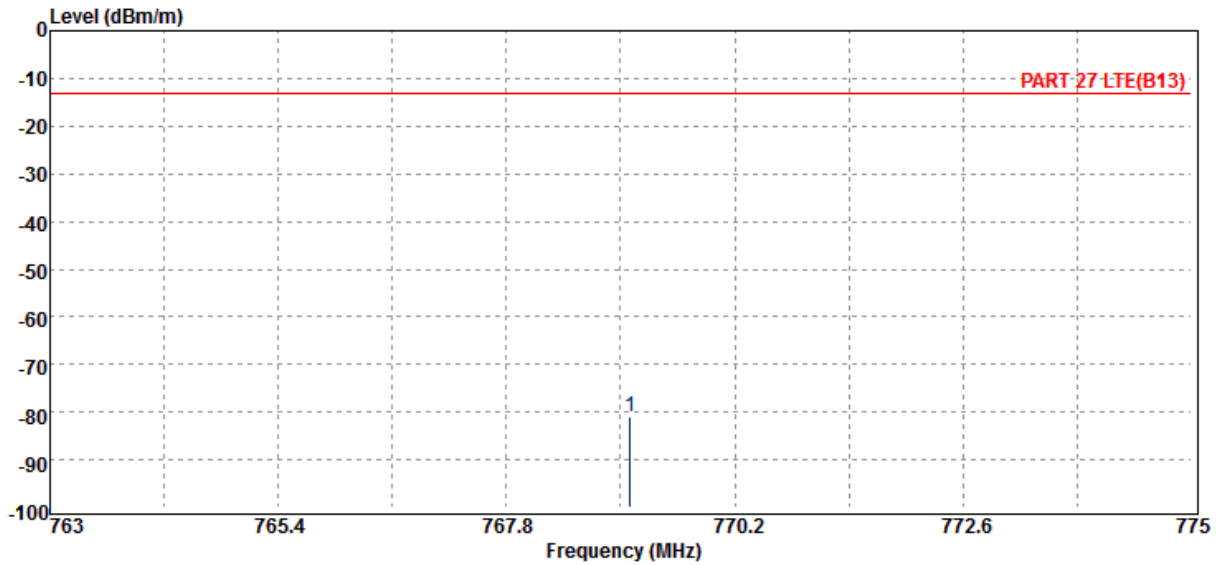
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B13    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :784.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 769.10       | S               | -81.05          | -82.59                    | 3.46                       | -1.92               | -13.00       | -68.05       |

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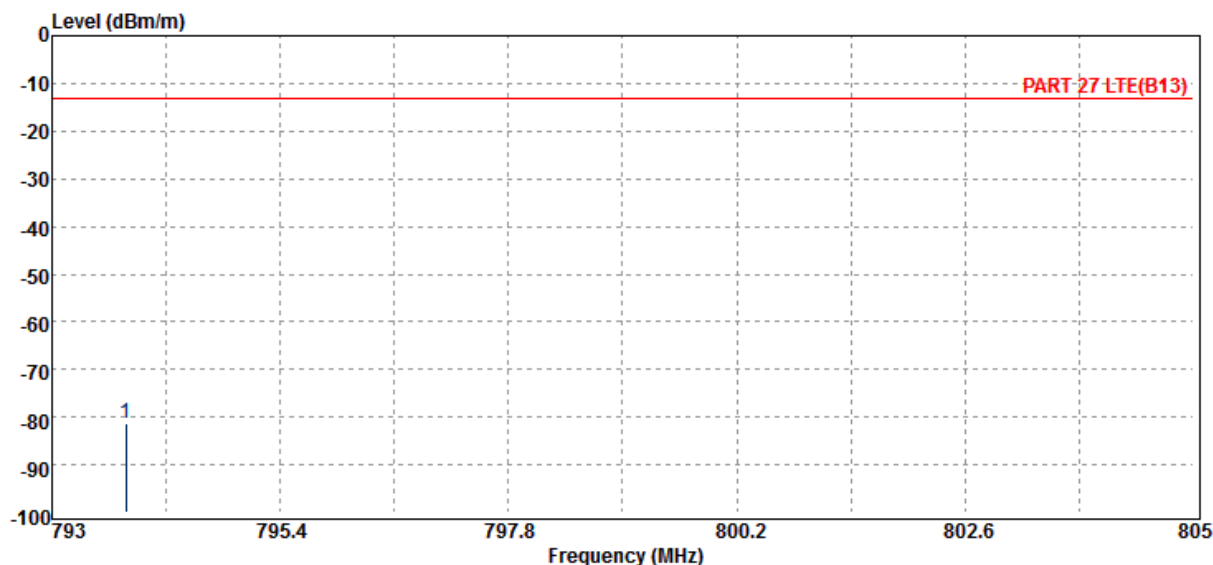
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B13    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :784.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 793.78       | S               | -81.20          | -81.68                    | 3.44                       | -2.96               | -13.00       | -68.20       |

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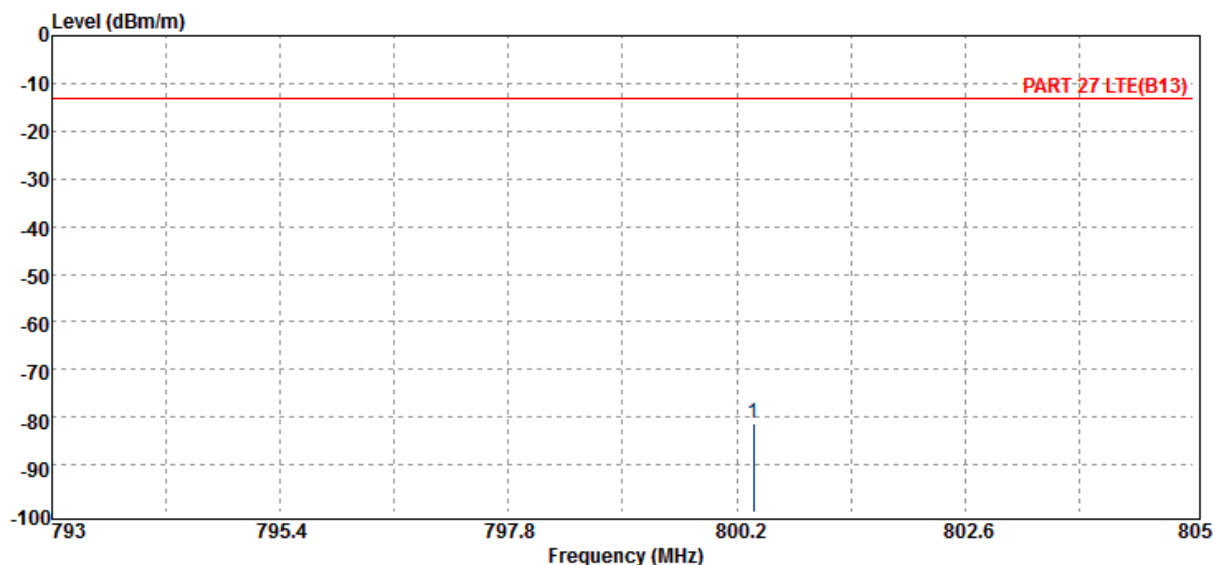
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B13    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :784.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 800.38       | S               | -81.45          | -82.50                    | 3.44                       | -2.39               | -13.00       | -68.45       |

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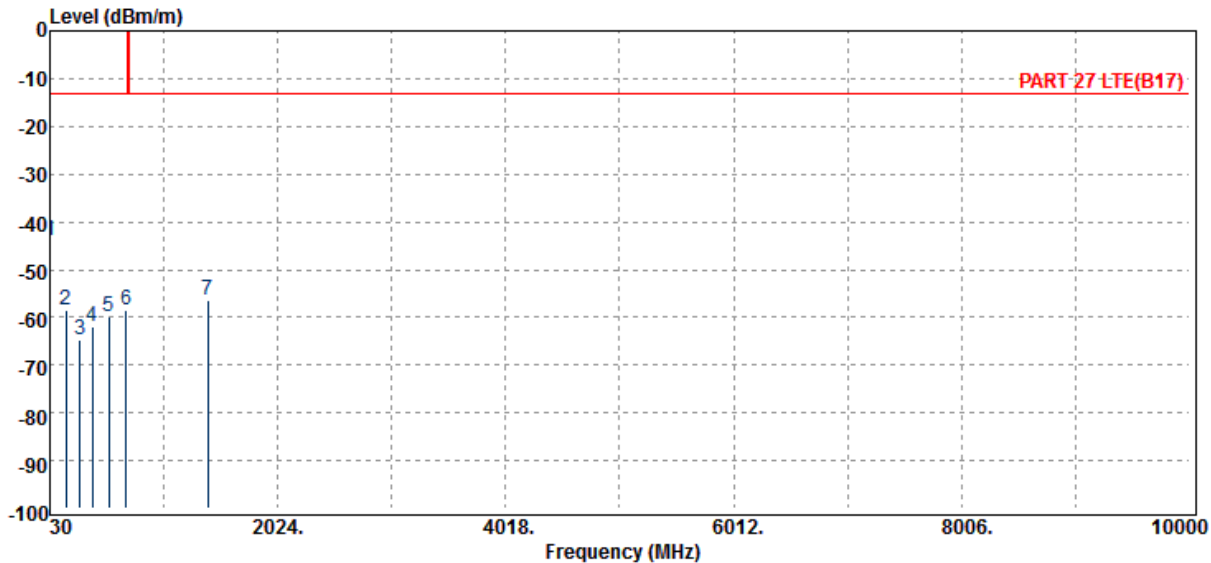
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### Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| 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.              | :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               | -44.00          | -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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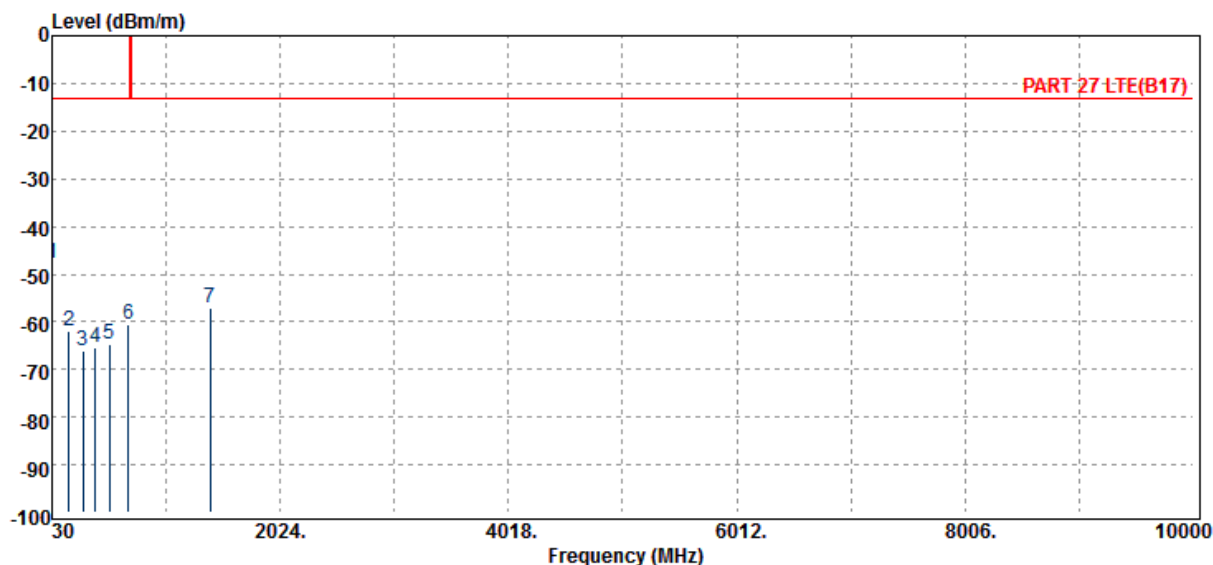
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B17   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :706.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :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               | -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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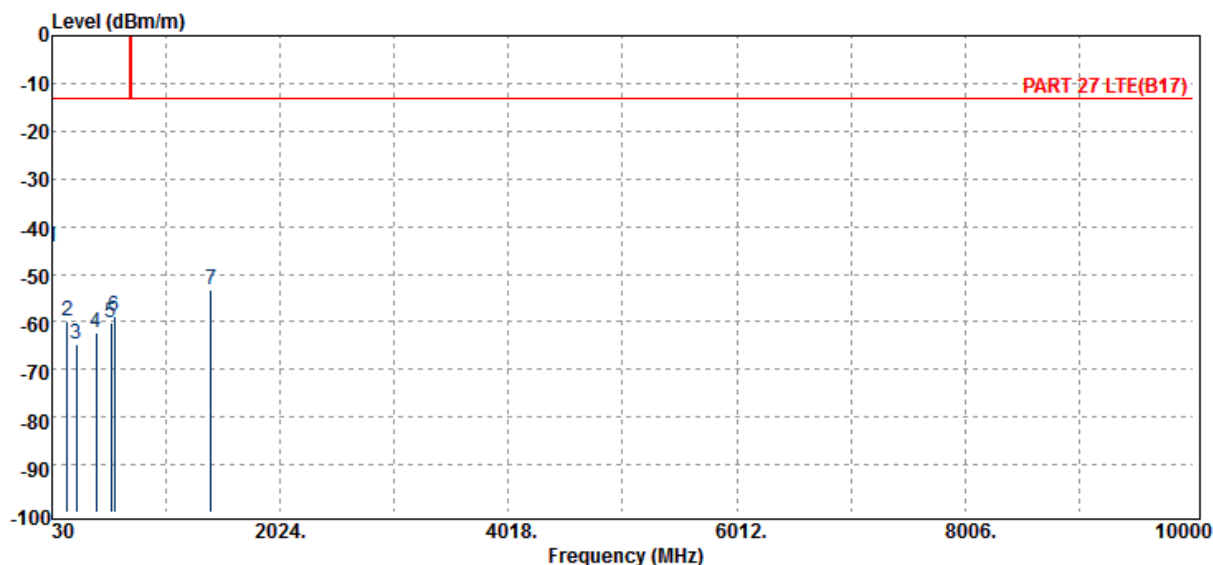
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B17   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :710 MHz   | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 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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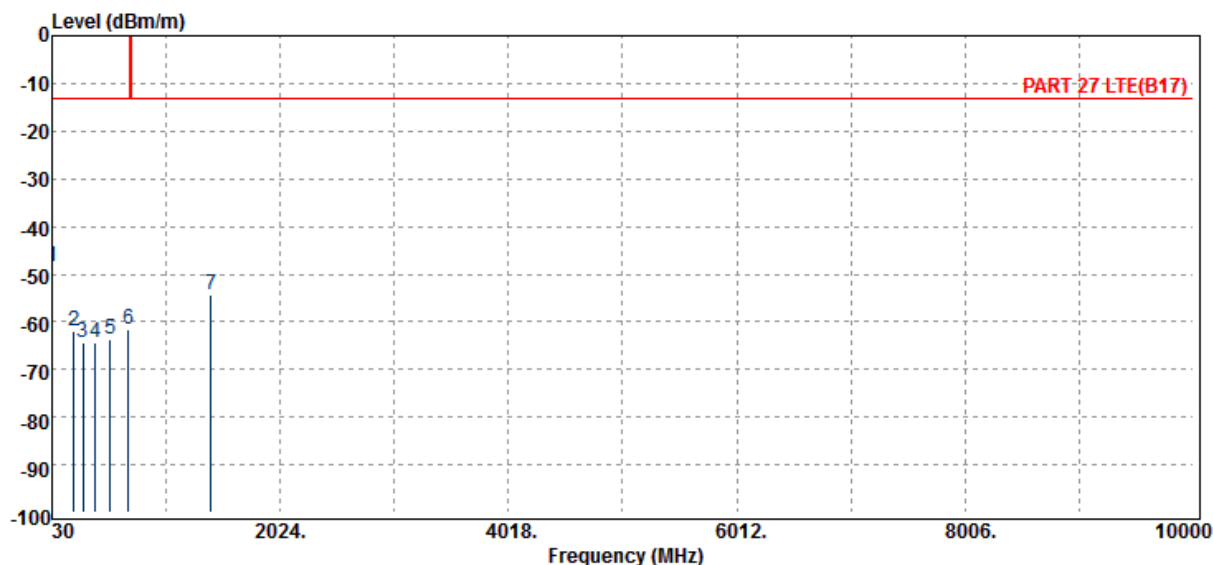
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B17   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :710 MHz   | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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               | -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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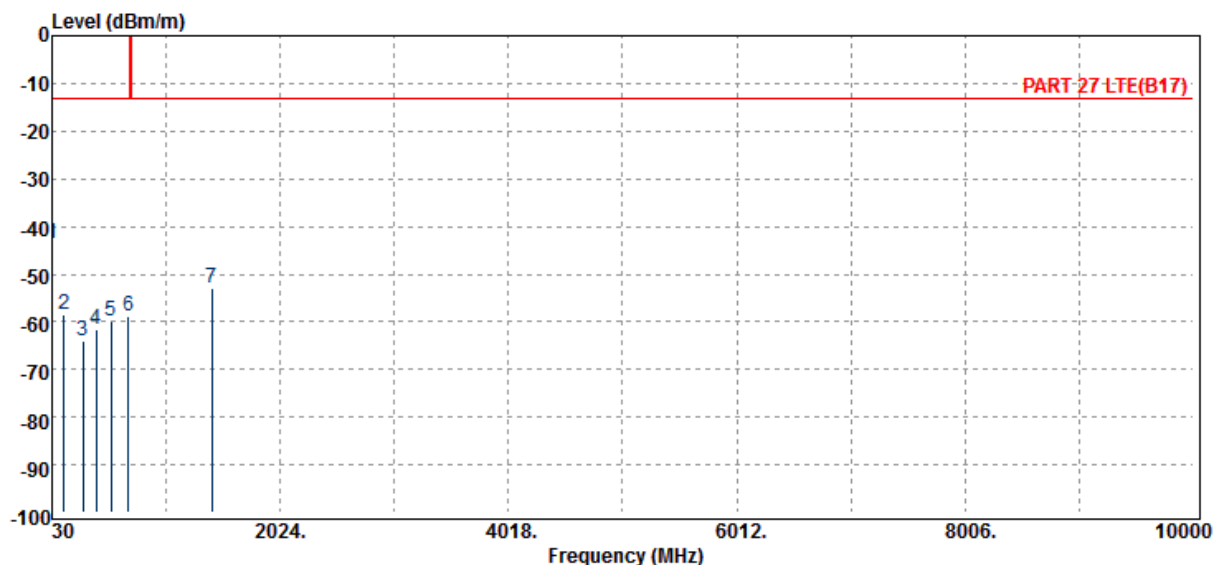
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B17    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :713.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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               | -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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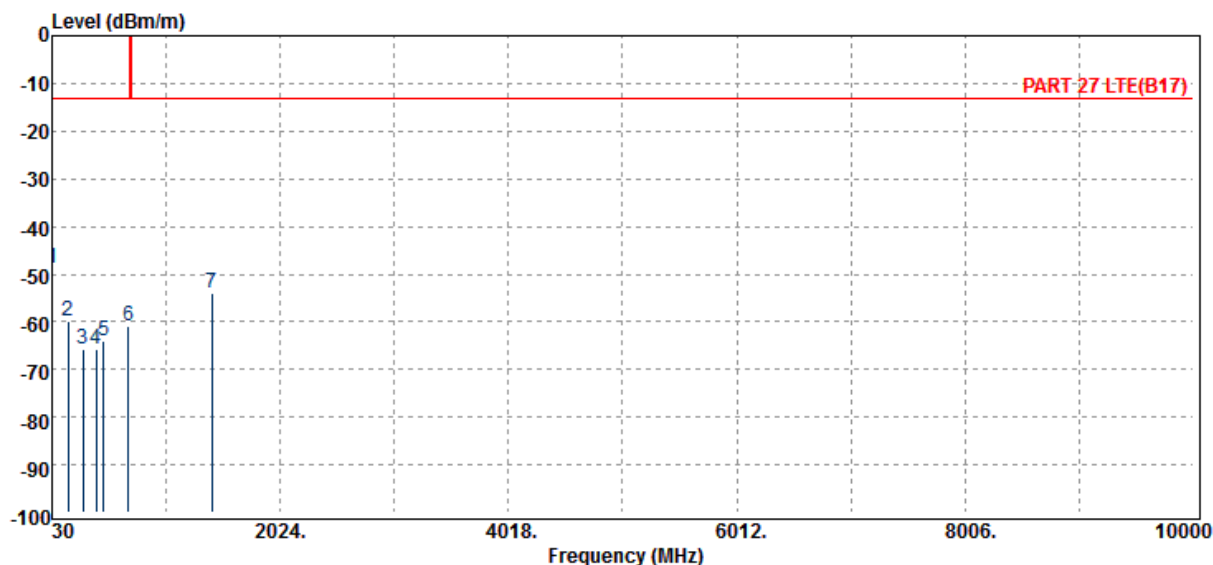
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B17    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :713.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 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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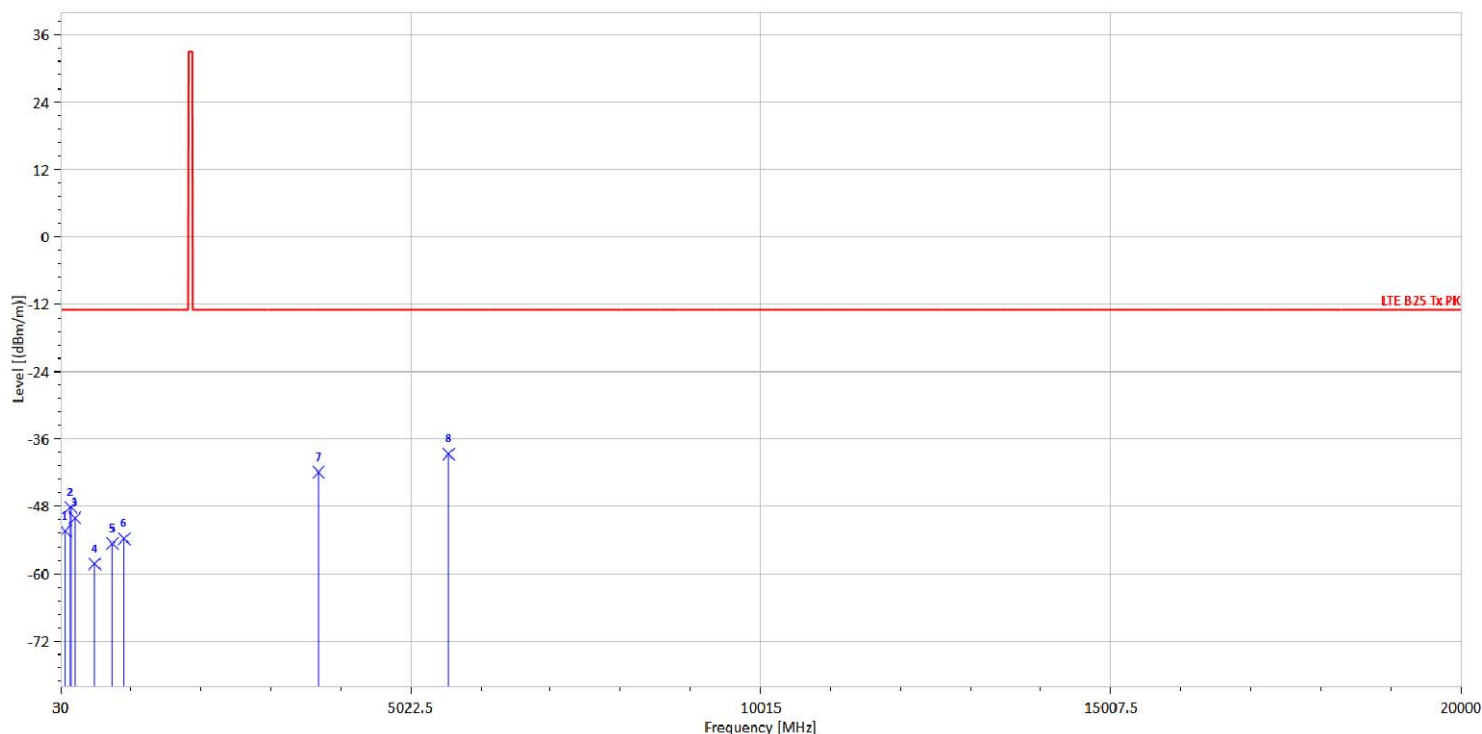
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|                         |                     |                            |                |
|-------------------------|---------------------|----------------------------|----------------|
| Operation Mode :        | LTEB25 10M QPSK 1.0 | Test Date :                | 2017/11/17     |
| Fundamental Frequency : | 1855 MHz            | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | Tx CH Low           | Test Engineer :            | Enzo           |
| EUT Pol. :              | E2                  | Measurement Antenna Pol. : | Vertical       |



| Freq.   | Note    | ERP/EIRP | SG Output    | Antenna         | Cable      | Limit        | Margin |
|---------|---------|----------|--------------|-----------------|------------|--------------|--------|
| MHz     | F/H/E/S | dBm      | Level<br>dBm | Gain<br>dBd/dBi | Loss<br>dB | @3m<br>dBm/m | dB     |
| 97.90   | S       | -52.36   | -49.95       | -1.04           | -1.36      | -13          | -39.36 |
| 175.50  | S       | -48.16   | -51.22       | 4.92            | -1.86      | -13          | -35.16 |
| 235.64  | S       | -50.07   | -53.71       | 5.80            | -2.17      | -13          | -37.07 |
| 515.97  | S       | -58.24   | -61.44       | 6.50            | -3.29      | -13          | -45.24 |
| 770.11  | S       | -54.64   | -58.36       | 7.74            | -4.01      | -13          | -41.64 |
| 936.95  | S       | -53.77   | -57.23       | 7.95            | -4.49      | -13          | -40.77 |
| 3710.00 | H       | -41.93   | -45.45       | 12.43           | -8.91      | -13          | -28.93 |
| 5565.00 | H       | -38.68   | -41.35       | 13.01           | -10.34     | -13          | -25.68 |

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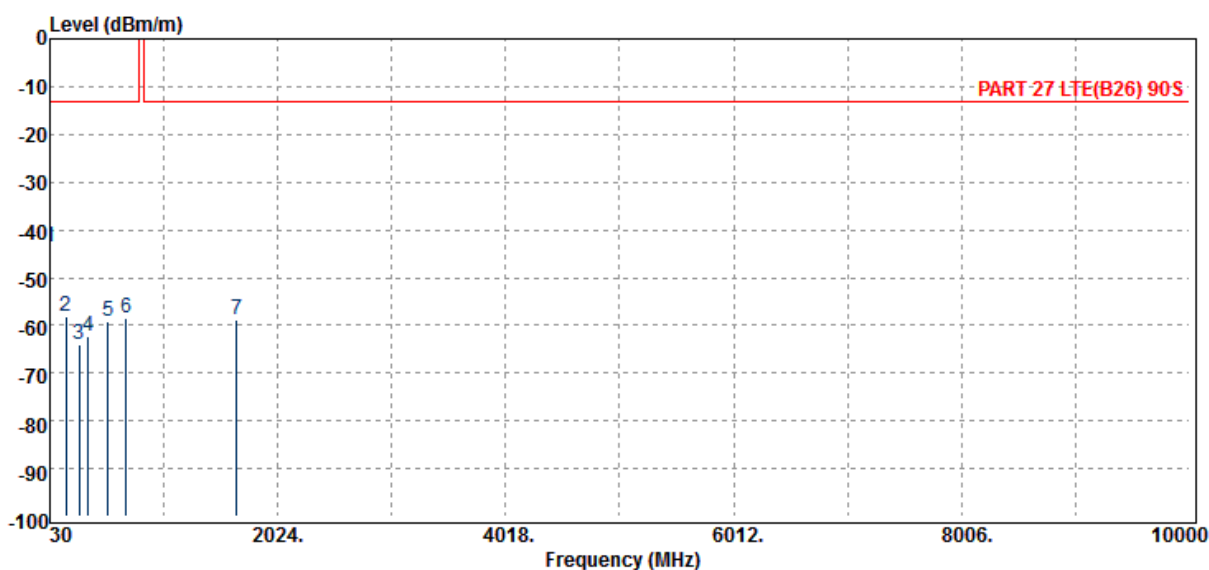
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## Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B26   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :831.5 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               | -43.51          | -28.84                    | -14.08                     | -0.59               | -13.00       | -30.51       |
| 170.65       | S               | -58.02          | -56.17                    | -0.51                      | -1.33               | -13.00       | -45.02       |
| 287.05       | S               | -63.93          | -65.58                    | 3.42                       | -1.77               | -13.00       | -50.93       |
| 366.59       | S               | -62.26          | -64.00                    | 3.81                       | -2.07               | -13.00       | -49.26       |
| 537.31       | S               | -59.30          | -61.23                    | 4.00                       | -2.07               | -13.00       | -46.30       |
| 694.45       | S               | -58.35          | -59.43                    | 3.69                       | -2.61               | -13.00       | -45.35       |
| 1663.00      | H               | -58.65          | -61.30                    | 7.02                       | -4.38               | -13.00       | -45.65       |

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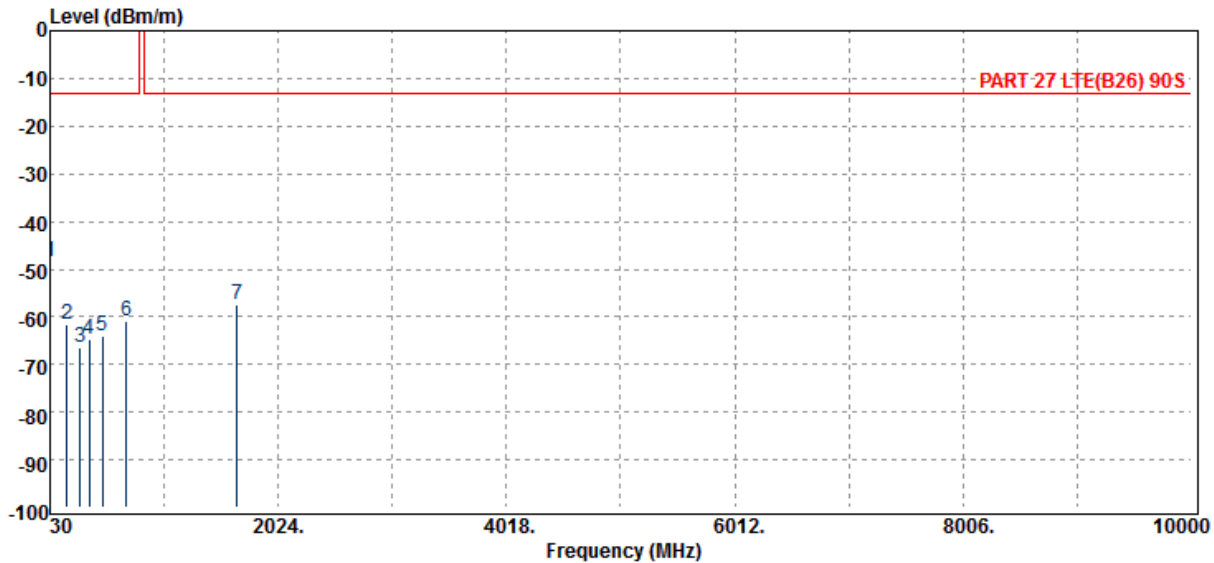
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B26   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :831.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| 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               | -48.47          | -33.31                    | -14.58                     | -0.58               | -13.00       | -35.47       |
| 175.50       | S               | -61.42          | -60.33                    | 0.27                       | -1.36               | -13.00       | -48.42       |
| 296.75       | S               | -66.44          | -68.18                    | 3.55                       | -1.81               | -13.00       | -53.44       |
| 372.41       | S               | -64.84          | -66.58                    | 3.79                       | -2.05               | -13.00       | -51.84       |
| 487.84       | S               | -64.05          | -66.10                    | 3.93                       | -1.89               | -13.00       | -51.05       |
| 694.45       | S               | -60.76          | -61.84                    | 3.69                       | -2.61               | -13.00       | -47.76       |
| 1663.00      | H               | -57.58          | -60.23                    | 7.02                       | -4.38               | -13.00       | -44.58       |

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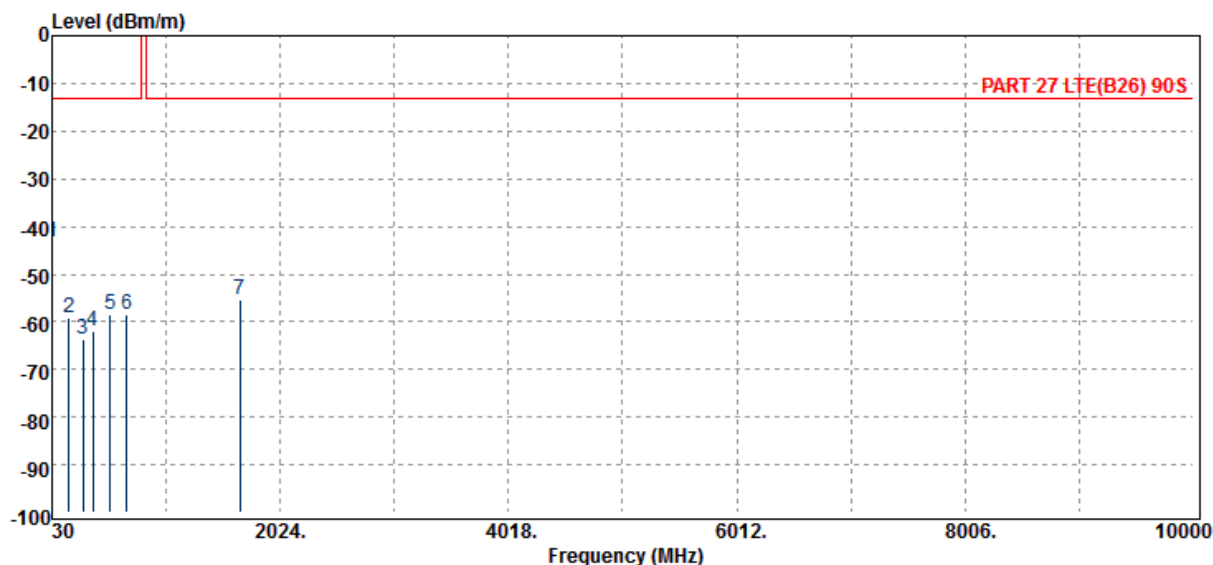
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B26   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :836.5 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 31.94        | S               | -43.13          | -28.45                    | -14.08                     | -0.59               | -13.00       | -30.13       |
| 177.44       | S               | -59.09          | -58.30                    | 0.58                       | -1.37               | -13.00       | -46.09       |
| 298.69       | S               | -63.68          | -65.45                    | 3.59                       | -1.82               | -13.00       | -50.68       |
| 386.96       | S               | -61.79          | -63.52                    | 3.75                       | -2.02               | -13.00       | -48.79       |
| 542.16       | S               | -58.53          | -60.66                    | 3.99                       | -1.87               | -13.00       | -45.53       |
| 684.75       | S               | -58.33          | -58.73                    | 3.72                       | -3.32               | -13.00       | -45.33       |
| 1673.00      | H               | -55.37          | -58.04                    | 7.06                       | -4.39               | -13.00       | -42.37       |

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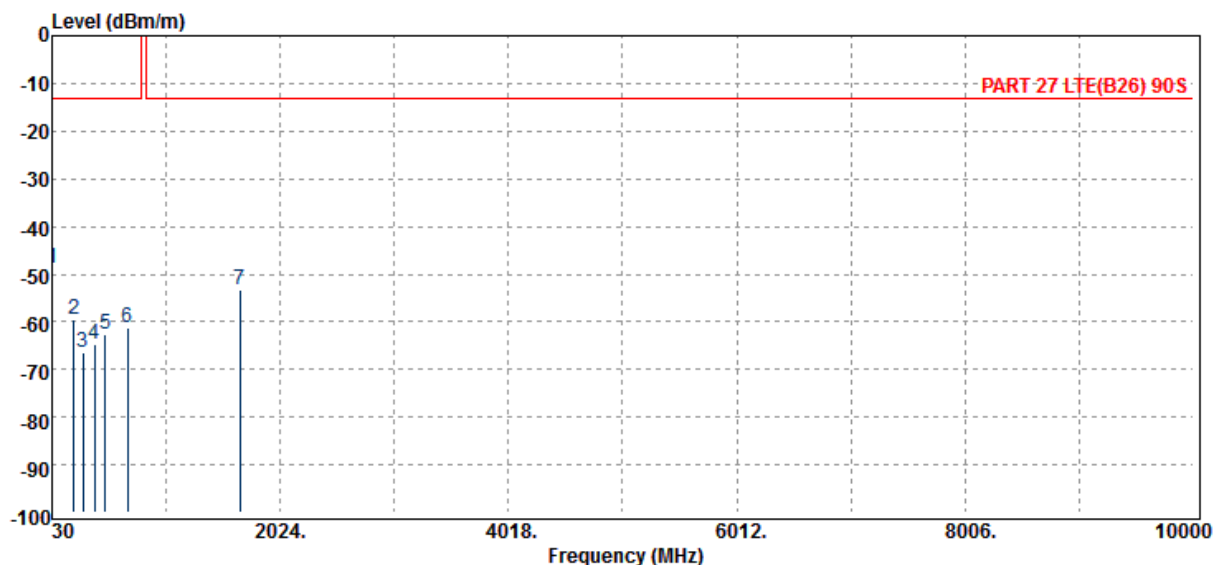
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B26   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :836.5 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 31.94        | S               | -48.94          | -34.27                    | -14.08                     | -0.59               | -13.00       | -35.94       |
| 219.15       | S               | -59.67          | -61.46                    | 3.35                       | -1.57               | -13.00       | -46.67       |
| 299.66       | S               | -66.39          | -68.18                    | 3.61                       | -1.82               | -13.00       | -53.39       |
| 403.45       | S               | -64.85          | -66.41                    | 3.70                       | -2.14               | -13.00       | -51.85       |
| 493.66       | S               | -62.72          | -64.67                    | 3.99                       | -2.04               | -13.00       | -49.72       |
| 692.51       | S               | -61.30          | -62.24                    | 3.70                       | -2.76               | -13.00       | -48.30       |
| 1673.00      | H               | -53.38          | -56.04                    | 7.06                       | -4.39               | -13.00       | -40.38       |

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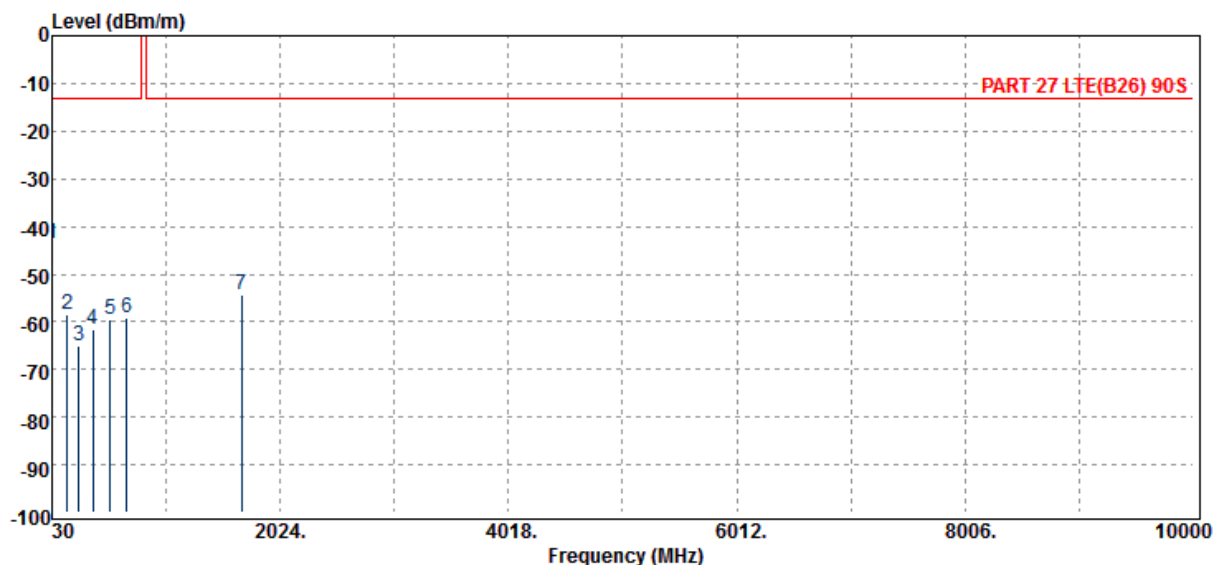
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B26    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :841.5 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 31.94        | S               | -43.76          | -29.08                    | -14.08                     | -0.59               | -13.00       | -30.76       |
| 165.80       | S               | -58.58          | -56.40                    | -0.88                      | -1.31               | -13.00       | -45.58       |
| 265.71       | S               | -65.19          | -67.06                    | 3.57                       | -1.71               | -13.00       | -52.19       |
| 385.99       | S               | -61.54          | -63.28                    | 3.75                       | -2.01               | -13.00       | -48.54       |
| 542.16       | S               | -59.48          | -61.60                    | 3.99                       | -1.87               | -13.00       | -46.48       |
| 679.90       | S               | -59.09          | -59.83                    | 3.74                       | -2.99               | -13.00       | -46.09       |
| 1683.00      | H               | -54.15          | -56.83                    | 7.09                       | -4.41               | -13.00       | -41.15       |

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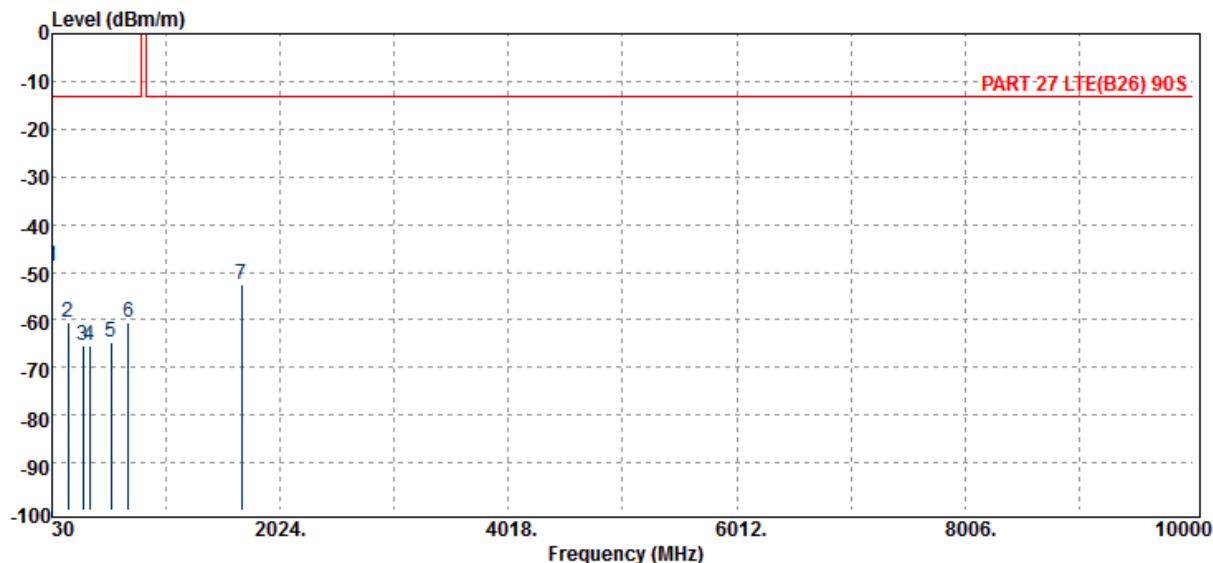
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B26    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :841.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| 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               | -48.72          | -33.56                    | -14.58                     | -0.58               | -13.00       | -35.72       |
| 170.65       | S               | -60.59          | -58.74                    | -0.51                      | -1.33               | -13.00       | -47.59       |
| 299.66       | S               | -65.26          | -67.04                    | 3.61                       | -1.82               | -13.00       | -52.26       |
| 359.80       | S               | -65.39          | -67.16                    | 3.83                       | -2.06               | -13.00       | -52.39       |
| 547.01       | S               | -64.62          | -66.74                    | 3.98                       | -1.86               | -13.00       | -51.62       |
| 696.39       | S               | -60.54          | -61.77                    | 3.69                       | -2.46               | -13.00       | -47.54       |
| 1683.00      | H               | -52.59          | -55.27                    | 7.09                       | -4.41               | -13.00       | -39.59       |

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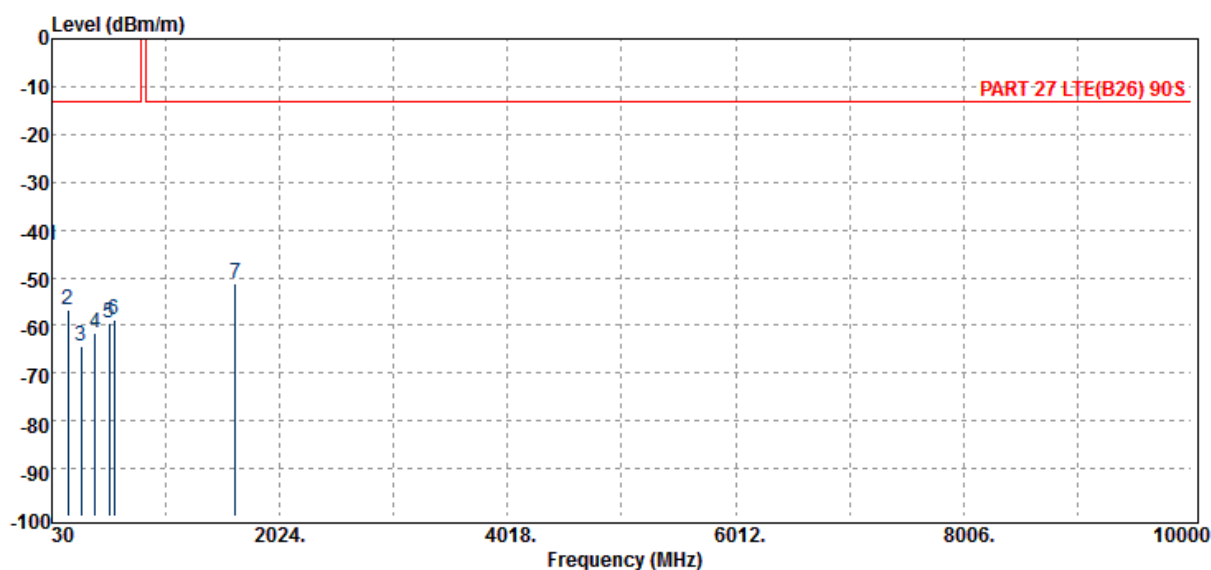
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## Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B26   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :816.5 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               | -43.24          | -28.57                    | -14.08                     | -0.59               | -13.00       | -30.24       |
| 172.59       | S               | -56.59          | -55.05                    | -0.20                      | -1.34               | -13.00       | -43.59       |
| 285.11       | S               | -64.47          | -66.13                    | 3.42                       | -1.76               | -13.00       | -51.47       |
| 411.21       | S               | -61.66          | -63.20                    | 3.67                       | -2.13               | -13.00       | -48.66       |
| 531.49       | S               | -59.55          | -61.25                    | 4.01                       | -2.31               | -13.00       | -46.55       |
| 573.20       | S               | -58.86          | -60.04                    | 3.77                       | -2.59               | -13.00       | -45.86       |
| 1633.00      | H               | -51.04          | -53.64                    | 6.92                       | -4.33               | -13.00       | -38.04       |

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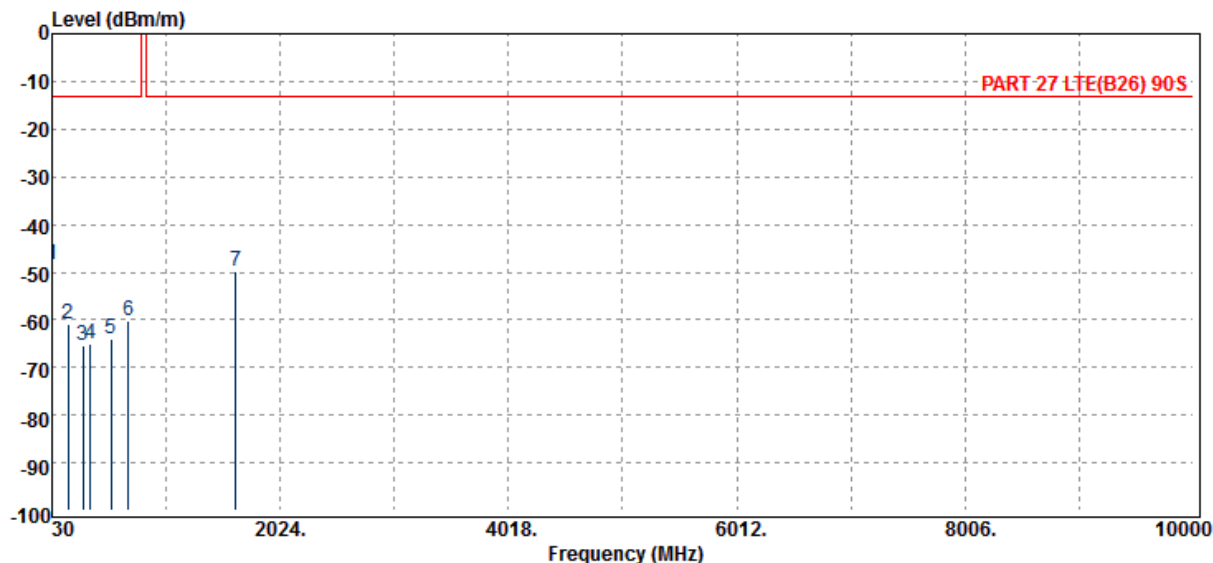
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B26   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :816.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| 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               | -48.50          | -33.34                    | -14.58                     | -0.58               | -13.00       | -35.50       |
| 172.59       | S               | -60.74          | -59.20                    | -0.20                      | -1.34               | -13.00       | -47.74       |
| 299.66       | S               | -65.49          | -67.28                    | 3.61                       | -1.82               | -13.00       | -52.49       |
| 367.56       | S               | -65.17          | -66.90                    | 3.80                       | -2.06               | -13.00       | -52.17       |
| 548.95       | S               | -64.14          | -66.15                    | 3.98                       | -1.97               | -13.00       | -51.14       |
| 699.30       | S               | -60.08          | -61.53                    | 3.68                       | -2.24               | -13.00       | -47.08       |
| 1633.00      | H               | -49.66          | -52.25                    | 6.92                       | -4.33               | -13.00       | -36.66       |

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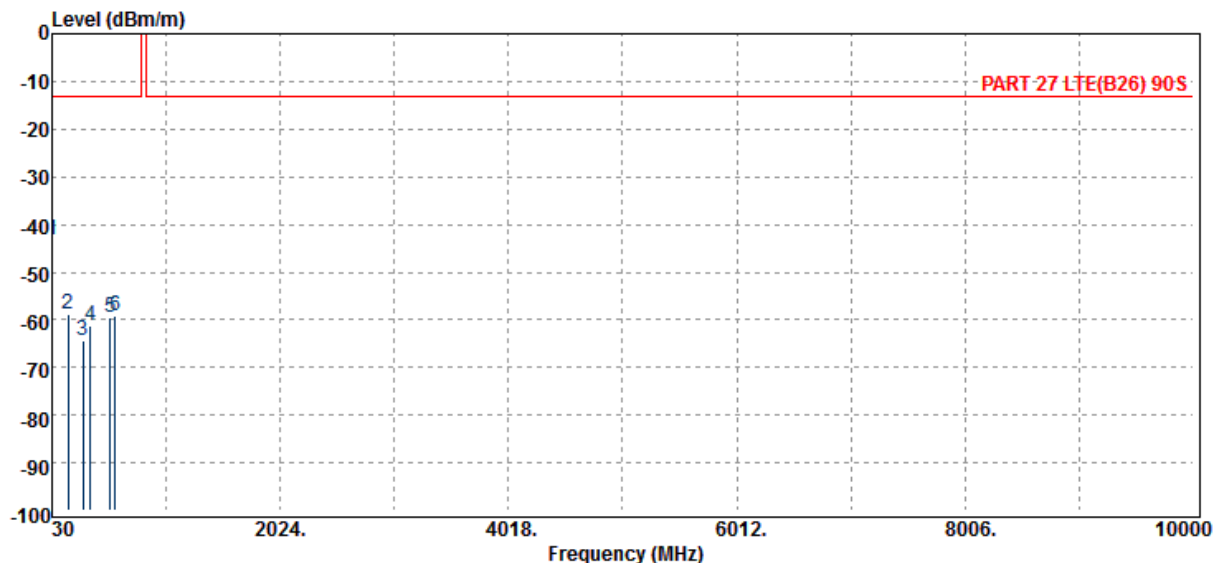
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B26   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :819 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 30.00        | S               | -43.18          | -28.02                    | -14.58                     | -0.58               | -13.00       | -30.18       |
| 168.71       | S               | -58.72          | -56.70                    | -0.70                      | -1.33               | -13.00       | -45.72       |
| 299.66       | S               | -64.42          | -66.20                    | 3.61                       | -1.82               | -13.00       | -51.42       |
| 364.65       | S               | -61.39          | -63.13                    | 3.81                       | -2.07               | -13.00       | -48.39       |
| 537.31       | S               | -59.47          | -61.40                    | 4.00                       | -2.07               | -13.00       | -46.47       |
| 579.99       | S               | -59.28          | -60.60                    | 3.71                       | -2.39               | -13.00       | -46.28       |
| 1638.00      | H               | -494.71         | -497.32                   | 6.94                       | -4.34               | -13.00       | -481.71      |

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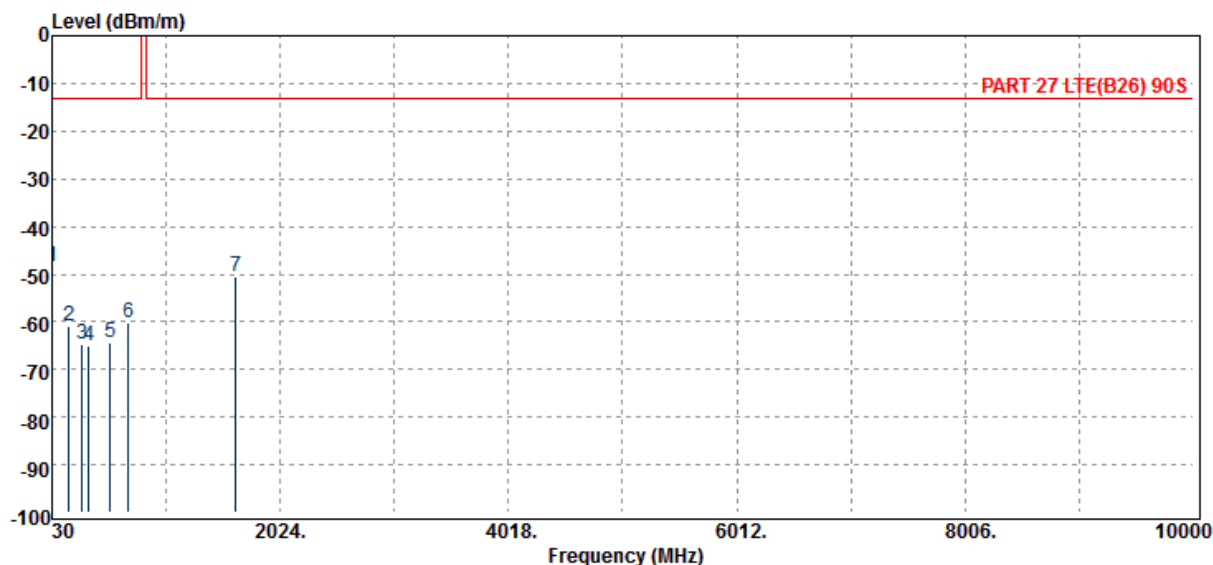
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B26   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :819 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               | -48.55          | -33.39                    | -14.58                     | -0.58               | -13.00       | -35.55       |
| 177.44       | S               | -61.07          | -60.28                    | 0.58                       | -1.37               | -13.00       | -48.07       |
| 296.75       | S               | -64.73          | -66.47                    | 3.55                       | -1.81               | -13.00       | -51.73       |
| 353.01       | S               | -65.19          | -67.00                    | 3.85                       | -2.03               | -13.00       | -52.19       |
| 537.31       | S               | -64.19          | -66.13                    | 4.00                       | -2.07               | -13.00       | -51.19       |
| 699.30       | S               | -60.36          | -61.80                    | 3.68                       | -2.24               | -13.00       | -47.36       |
| 1638.00      | H               | -50.38          | -52.98                    | 6.94                       | -4.34               | -13.00       | -37.38       |

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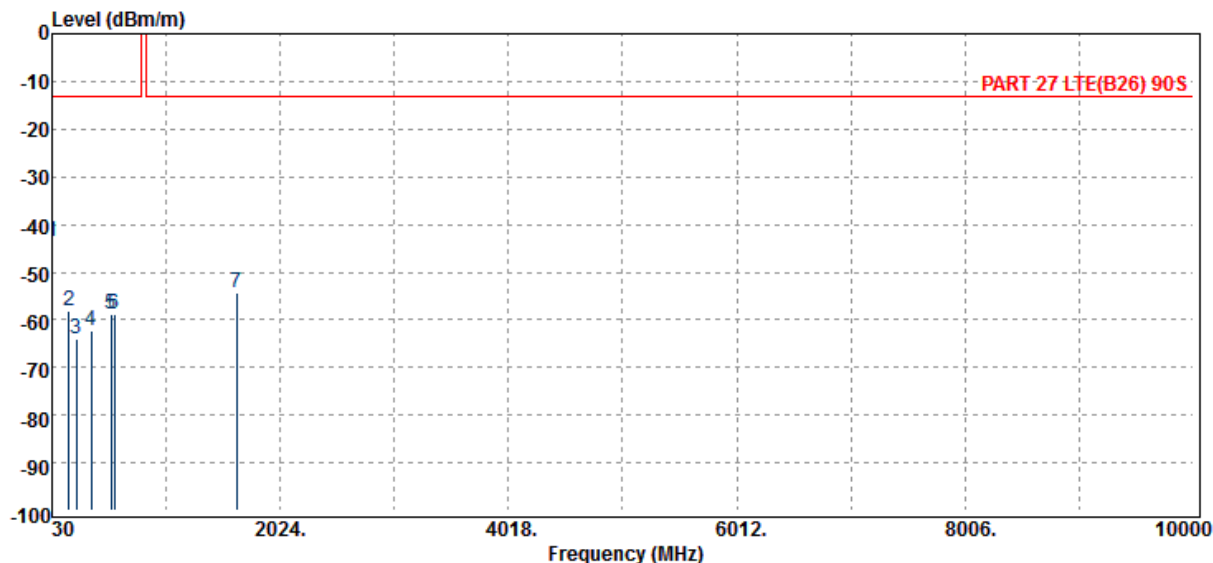
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B26    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :821.5 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 31.94        | S               | -43.48          | -28.80                    | -14.08                     | -0.59               | -13.00       | -30.48       |
| 175.50       | S               | -58.20          | -57.12                    | 0.27                       | -1.36               | -13.00       | -45.20       |
| 241.46       | S               | -63.86          | -65.67                    | 3.49                       | -1.68               | -13.00       | -50.86       |
| 371.44       | S               | -62.20          | -63.95                    | 3.79                       | -2.05               | -13.00       | -49.20       |
| 544.10       | S               | -58.94          | -61.14                    | 3.99                       | -1.79               | -13.00       | -45.94       |
| 578.05       | S               | -58.77          | -60.04                    | 3.73                       | -2.45               | -13.00       | -45.77       |
| 1643.00      | H               | -54.42          | -57.04                    | 6.96                       | -4.34               | -13.00       | -41.42       |

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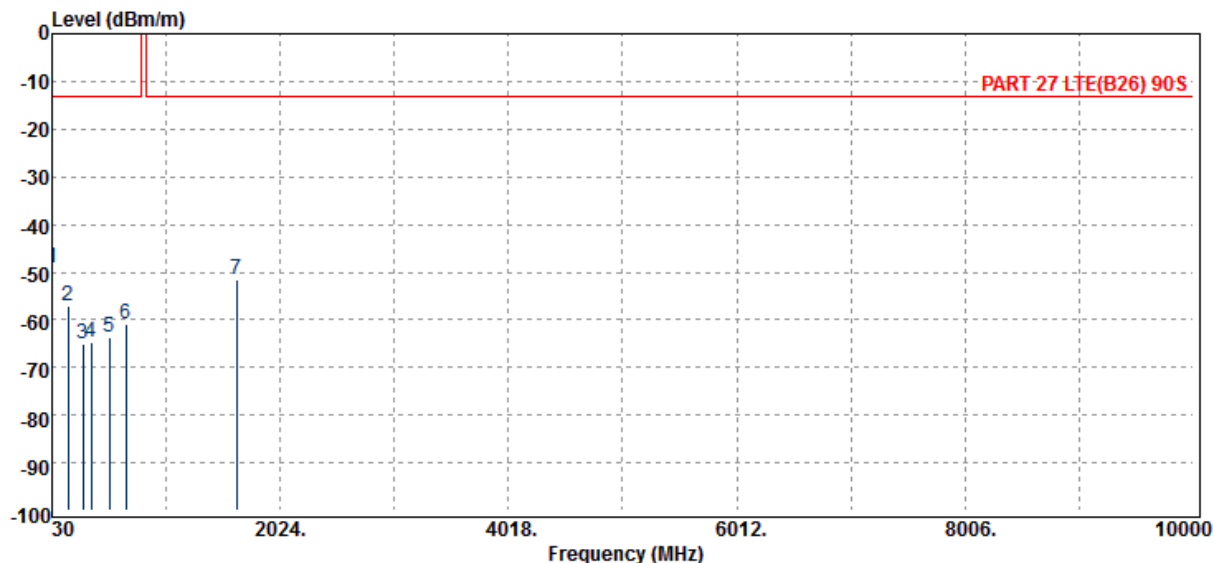
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B26    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :821.5 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| 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               | -49.03          | -33.87                    | -14.58                     | -0.58               | -13.00       | -36.03       |
| 168.71       | S               | -57.25          | -55.23                    | -0.70                      | -1.33               | -13.00       | -44.25       |
| 299.66       | S               | -64.97          | -66.75                    | 3.61                       | -1.82               | -13.00       | -51.97       |
| 371.44       | S               | -64.71          | -66.45                    | 3.79                       | -2.05               | -13.00       | -51.71       |
| 531.49       | S               | -63.58          | -65.27                    | 4.01                       | -2.31               | -13.00       | -50.58       |
| 673.11       | S               | -60.84          | -62.08                    | 3.76                       | -2.52               | -13.00       | -47.84       |
| 1643.00      | H               | -51.54          | -54.15                    | 6.96                       | -4.34               | -13.00       | -38.54       |

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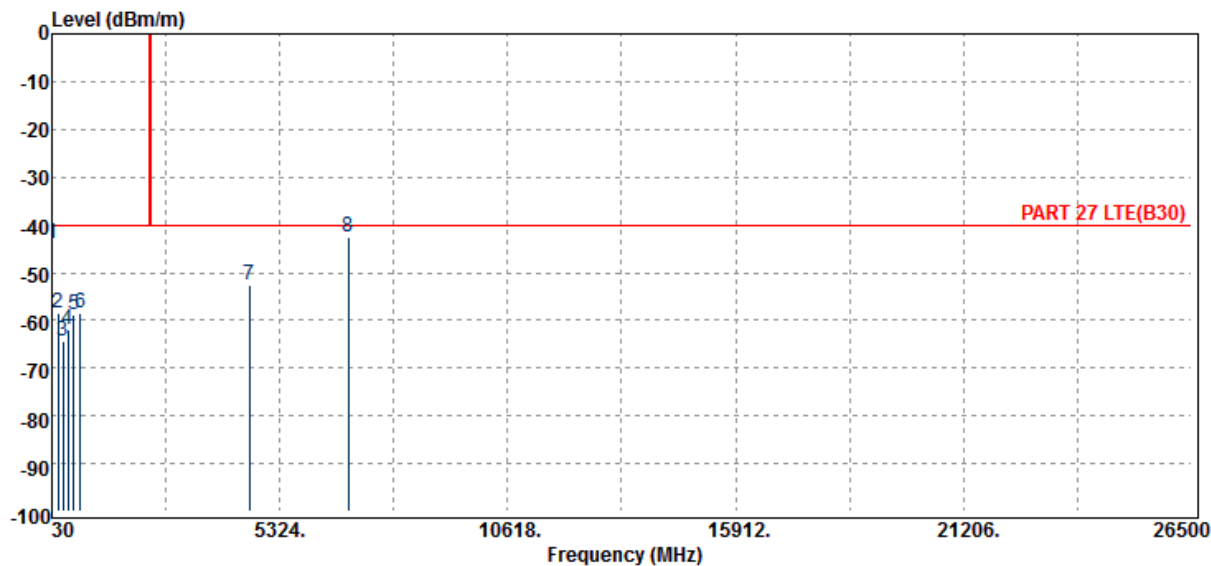
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Operation Band :LTE B30 Temp./Humi. :24.1 deg\_C / 65 RH  
Fundamental Frequency :2307.5 MHz Engineer :Tin  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane Measurement Pol. Antenna :VERTICAL



| 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               | -43.93          | -29.25                    | -14.08                     | -0.59               | -40.00       | -3.93        |
| 165.80       | S               | -58.53          | -56.34                    | -0.88                      | -1.31               | -40.00       | -18.53       |
| 296.75       | S               | -64.35          | -66.09                    | 3.55                       | -1.81               | -40.00       | -24.35       |
| 411.21       | S               | -62.06          | -63.60                    | 3.67                       | -2.13               | -40.00       | -22.06       |
| 539.25       | S               | -58.96          | -60.97                    | 4.00                       | -1.99               | -40.00       | -18.96       |
| 692.51       | S               | -58.49          | -59.43                    | 3.70                       | -2.76               | -40.00       | -18.49       |
| 4615.00      | H               | -52.67          | -57.60                    | 12.65                      | -7.72               | -40.00       | -12.67       |
| 6922.50      | H               | -42.67          | -44.18                    | 11.12                      | -9.60               | -40.00       | -2.67        |

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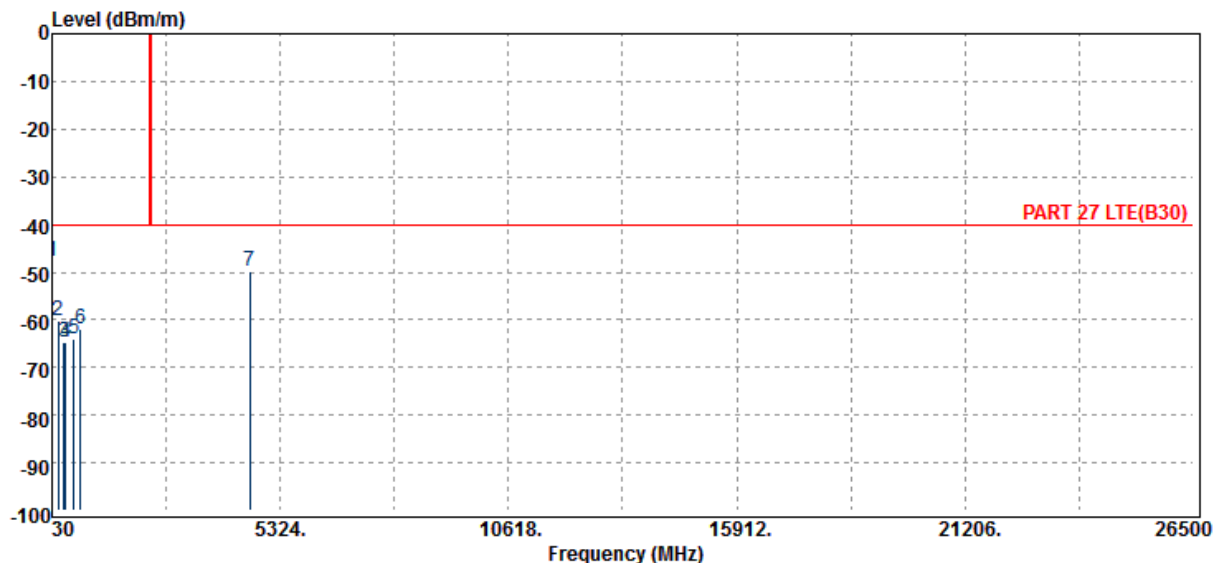
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B30    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2307.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW  |                  |                     |
| 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               | -47.89          | -32.73                    | -14.58                     | -0.58               | -40.00       | -7.89        |
| 170.65       | S               | -60.32          | -58.48                    | -0.51                      | -1.33               | -40.00       | -20.32       |
| 299.66       | S               | -64.64          | -66.42                    | 3.61                       | -1.82               | -40.00       | -24.64       |
| 343.31       | S               | -64.68          | -66.51                    | 3.82                       | -2.00               | -40.00       | -24.68       |
| 546.04       | S               | -64.00          | -66.18                    | 3.99                       | -1.81               | -40.00       | -24.00       |
| 686.69       | S               | -61.96          | -62.47                    | 3.72                       | -3.21               | -40.00       | -21.96       |
| 4615.00      | H               | -49.75          | -54.68                    | 12.65                      | -7.72               | -40.00       | -9.75        |

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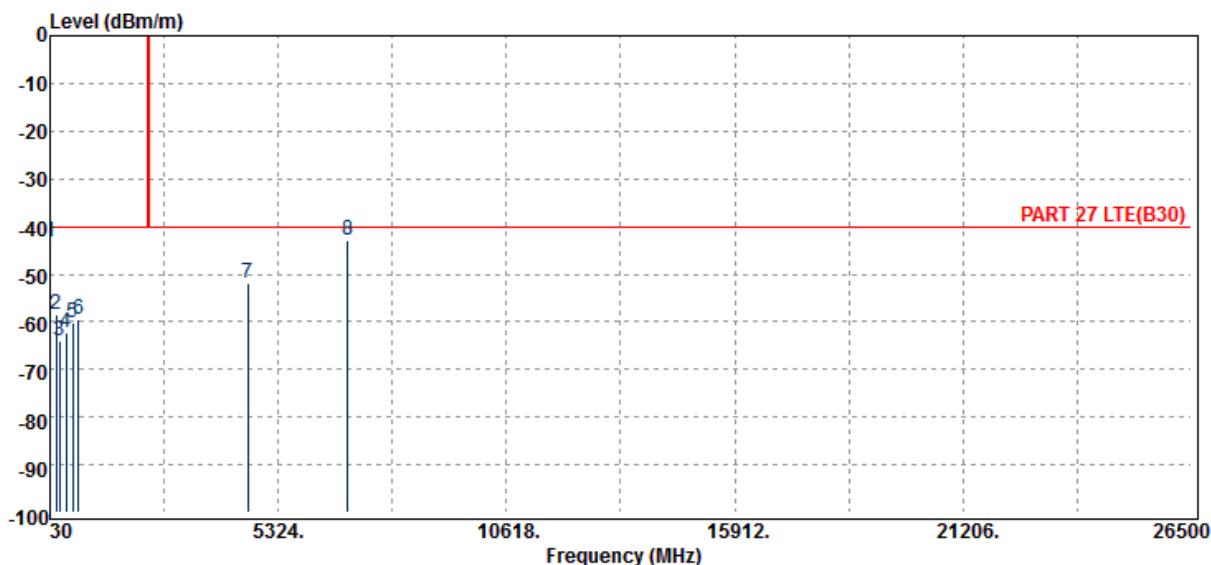
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B30   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2310 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 31.94        | S               | -43.29          | -28.61                    | -14.08                     | -0.59               | -40.00       | -3.29        |
| 167.74       | S               | -58.56          | -56.49                    | -0.76                      | -1.32               | -40.00       | -18.56       |
| 241.46       | S               | -64.09          | -65.91                    | 3.49                       | -1.68               | -40.00       | -24.09       |
| 411.21       | S               | -62.19          | -63.73                    | 3.67                       | -2.13               | -40.00       | -22.19       |
| 549.92       | S               | -60.13          | -62.09                    | 3.98                       | -2.02               | -40.00       | -20.13       |
| 687.66       | S               | -59.43          | -60.01                    | 3.71                       | -3.13               | -40.00       | -19.43       |
| 4620.00      | H               | -51.95          | -56.88                    | 12.65                      | -7.72               | -40.00       | -11.95       |
| 6930.00      | H               | -42.74          | -44.20                    | 11.11                      | -9.65               | -40.00       | -2.74        |

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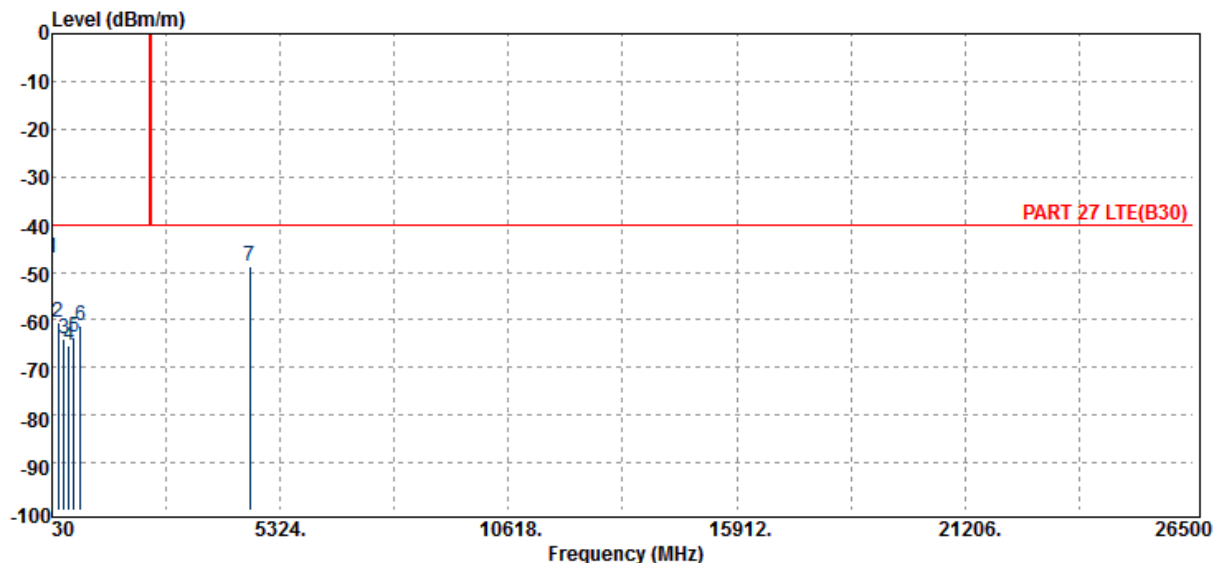
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B30   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2310 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               | -47.10          | -31.94                    | -14.58                     | -0.58               | -40.00       | -7.10        |
| 177.44       | S               | -60.61          | -59.82                    | 0.58                       | -1.37               | -40.00       | -20.61       |
| 298.69       | S               | -63.86          | -65.63                    | 3.59                       | -1.82               | -40.00       | -23.86       |
| 413.15       | S               | -65.52          | -67.06                    | 3.67                       | -2.13               | -40.00       | -25.52       |
| 536.34       | S               | -63.53          | -65.42                    | 4.00                       | -2.11               | -40.00       | -23.53       |
| 696.39       | S               | -61.17          | -62.40                    | 3.69                       | -2.46               | -40.00       | -21.17       |
| 4620.00      | H               | -48.75          | -53.68                    | 12.65                      | -7.72               | -40.00       | -8.75        |

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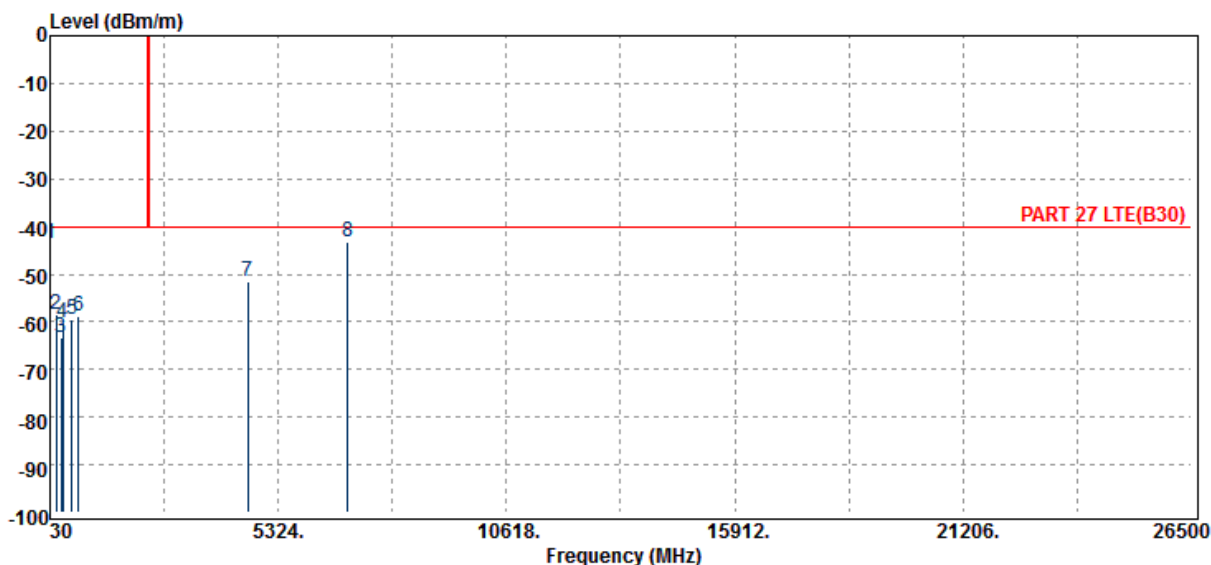
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B30    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2312.5 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 31.94        | S               | -43.76          | -29.09                    | -14.08                     | -0.59               | -40.00       | -3.76        |
| 173.56       | S               | -58.37          | -56.98                    | -0.04                      | -1.35               | -40.00       | -18.37       |
| 294.81       | S               | -63.29          | -65.01                    | 3.52                       | -1.80               | -40.00       | -23.29       |
| 332.64       | S               | -60.30          | -62.15                    | 3.78                       | -1.93               | -40.00       | -20.30       |
| 542.16       | S               | -59.53          | -61.65                    | 3.99                       | -1.87               | -40.00       | -19.53       |
| 684.75       | S               | -58.93          | -59.33                    | 3.72                       | -3.32               | -40.00       | -18.93       |
| 4625.00      | H               | -51.54          | -56.47                    | 12.65                      | -7.72               | -40.00       | -11.54       |
| 6937.50      | H               | -43.13          | -44.59                    | 11.10                      | -9.64               | -40.00       | -3.13        |

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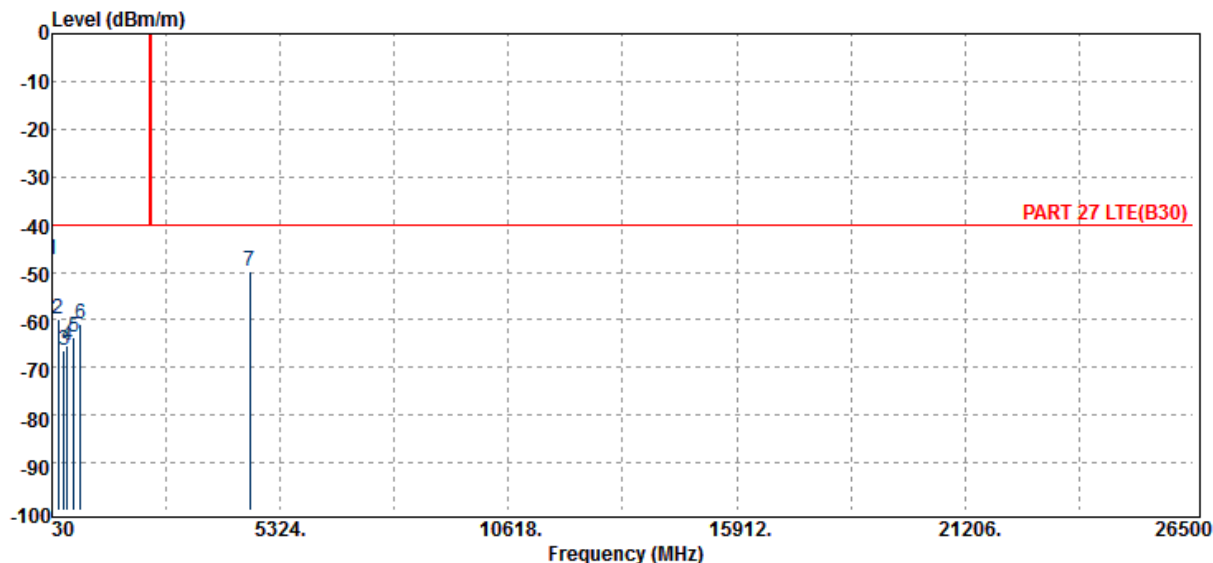
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|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B30    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2312.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :E2 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       | -47.24   | -32.08              | -14.58          | -0.58      | -40.00 | -7.24  |
| 170.65  | S       | -60.02   | -58.18              | -0.51           | -1.33      | -40.00 | -20.02 |
| 299.66  | S       | -66.56   | -68.35              | 3.61            | -1.82      | -40.00 | -26.56 |
| 390.84  | S       | -65.39   | -67.08              | 3.74            | -2.05      | -40.00 | -25.39 |
| 542.16  | S       | -63.79   | -65.91              | 3.99            | -1.87      | -40.00 | -23.79 |
| 696.39  | S       | -60.81   | -62.04              | 3.69            | -2.46      | -40.00 | -20.81 |
| 4625.00 | H       | -49.82   | -54.74              | 12.65           | -7.72      | -40.00 | -9.82  |

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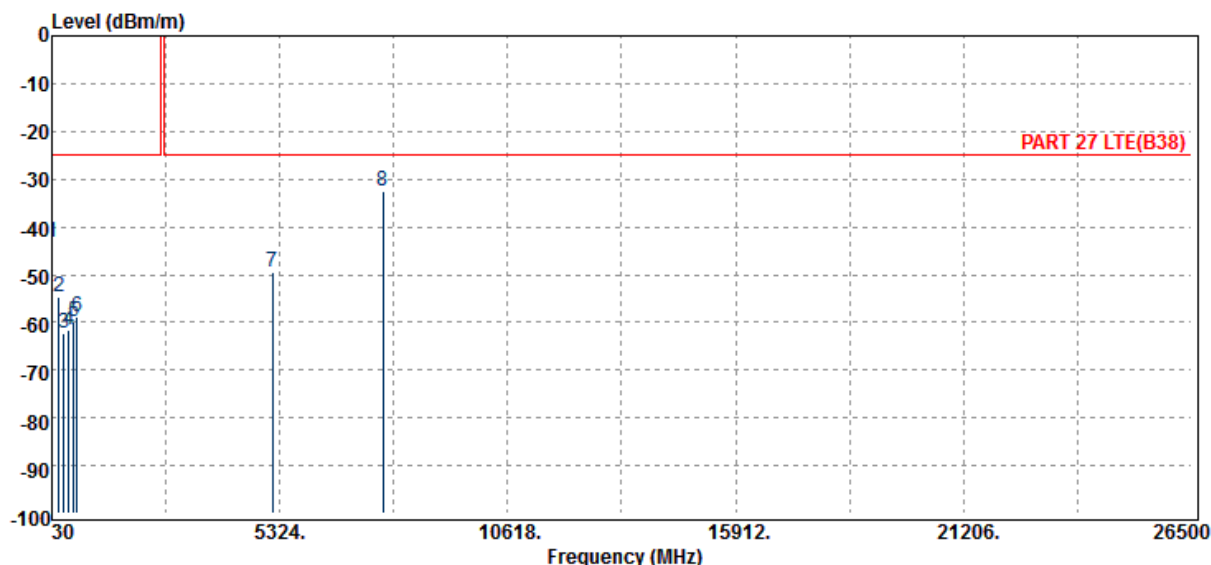
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|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B38   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2575 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :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               | -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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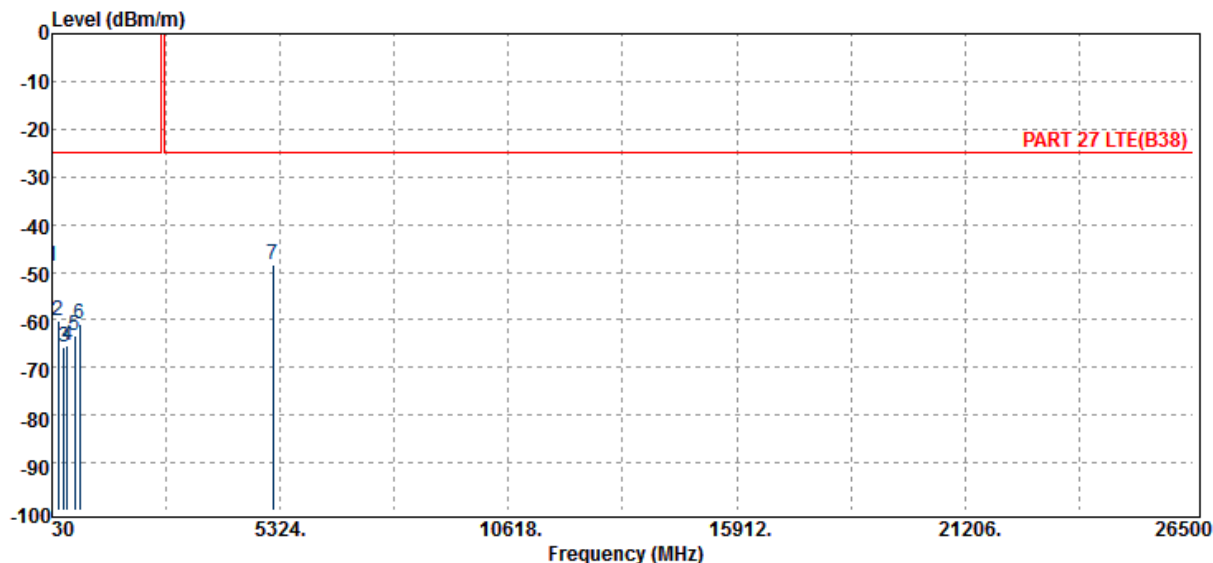
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B38   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2575 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| EUT Pol.              | :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               | -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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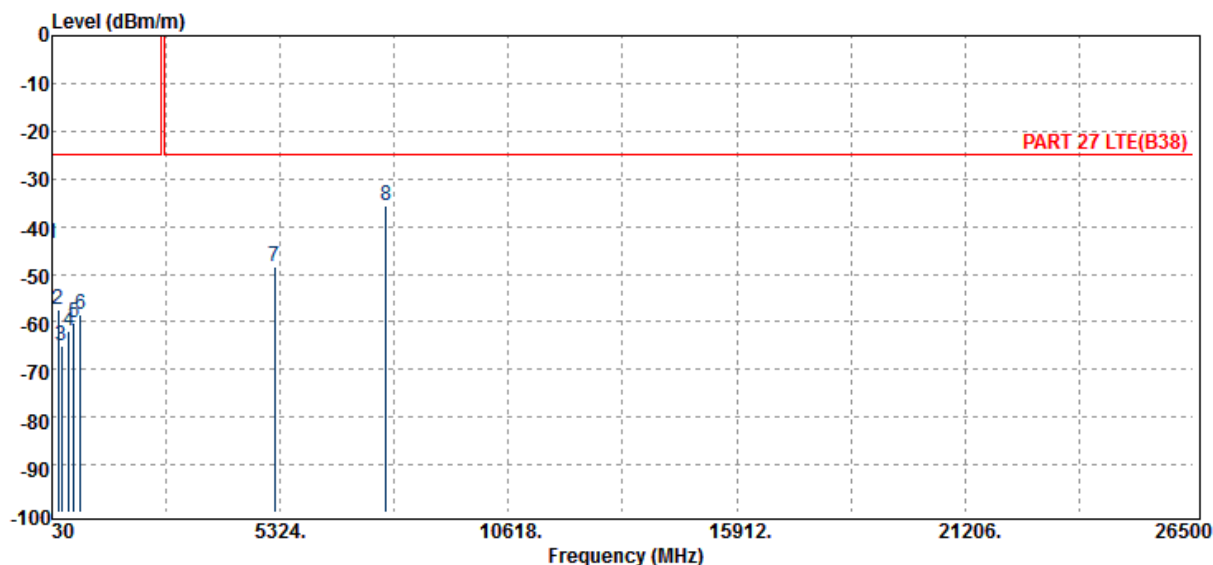
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|-----------------------|------------|-------------|---------------------|
| Operation Band        | :LTE B38   | Temp./Humi. | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2595 MHz  | Engineer    | :Tin                |
| Operation Mode        | :Tx CH MID | Measurement | Antenna:VERTICAL    |
| EUT Pol.              | :E2 Plane  | Pol.        |                     |



| 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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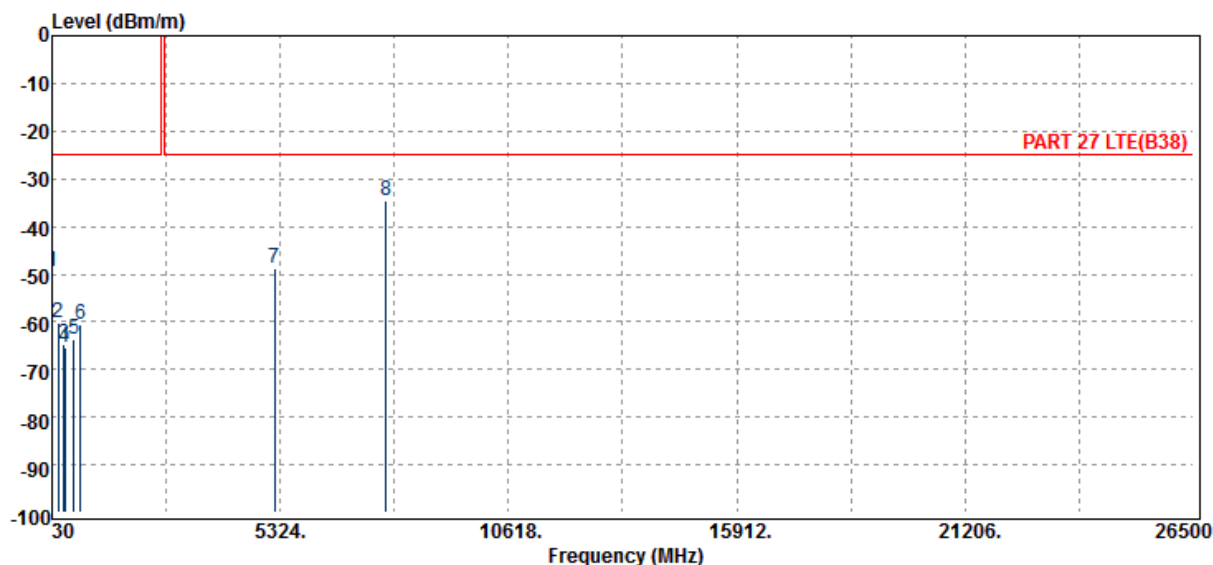
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B38   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2595 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 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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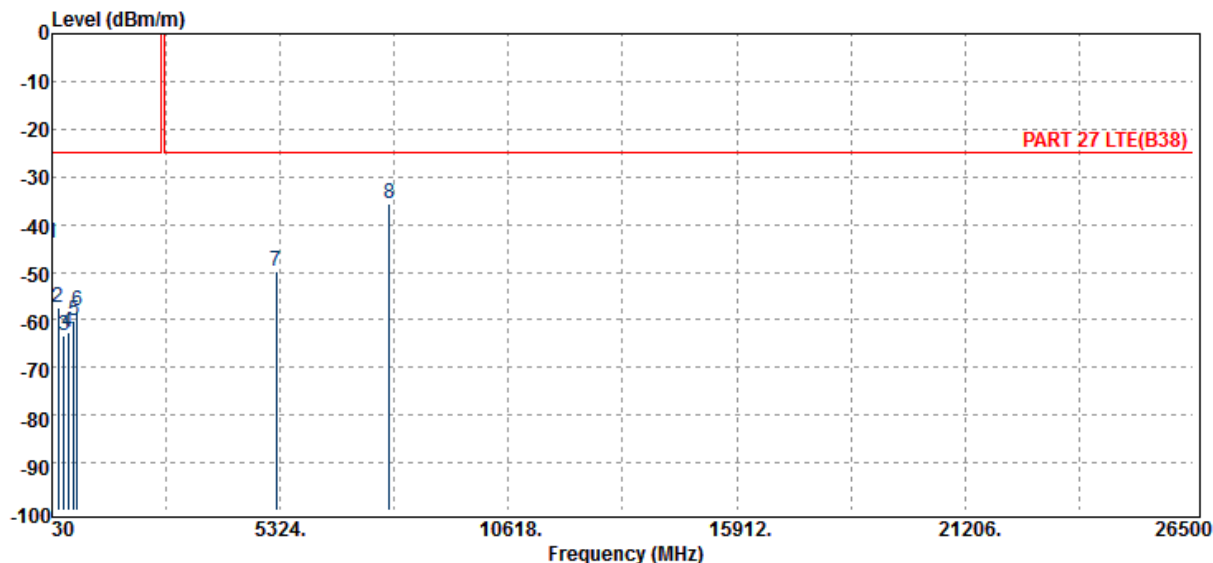
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B38    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2615 MHz   | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :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               | -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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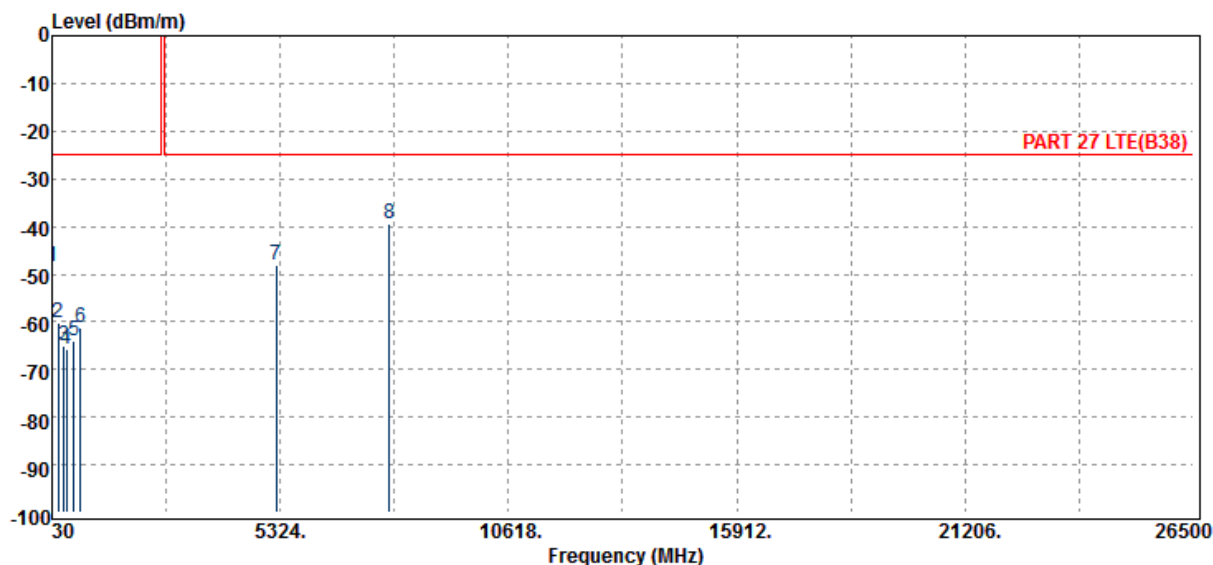
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B38    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2615 MHz   | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :E2 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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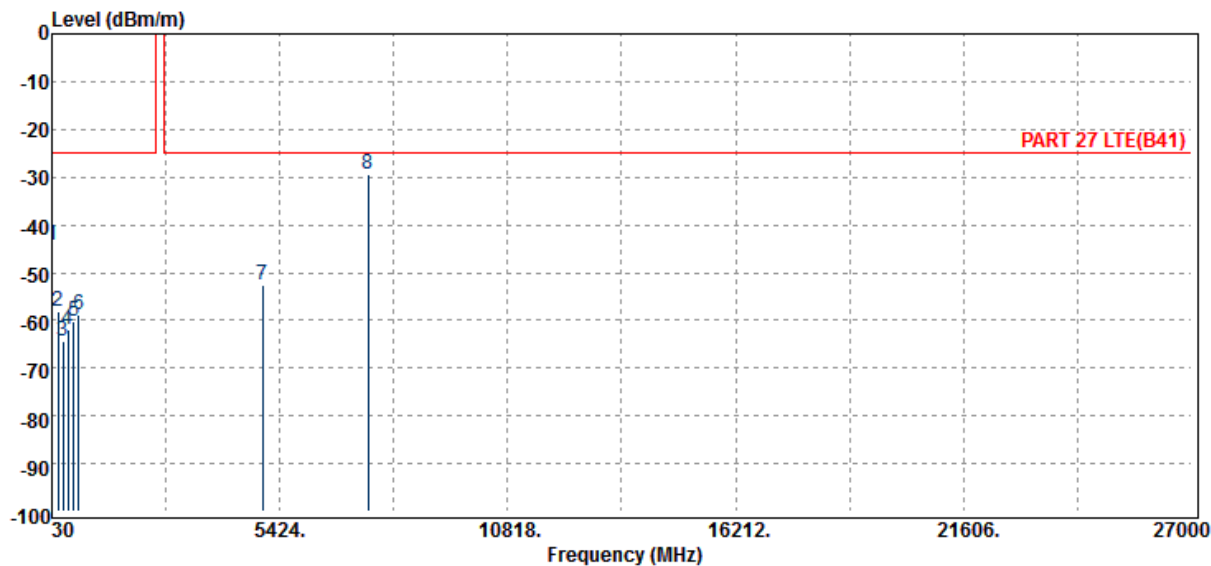
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|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B41    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2503.5 MHz | Engineer         | :Tin                |
| Operation 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               | -44.13          | -29.45                    | -14.08                     | -0.59               | -25.00       | -19.13       |
| 170.65       | S               | -58.12          | -56.27                    | -0.51                      | -1.33               | -25.00       | -33.12       |
| 299.66       | S               | -64.41          | -66.19                    | 3.61                       | -1.82               | -25.00       | -39.41       |
| 410.24       | S               | -61.83          | -63.38                    | 3.68                       | -2.13               | -25.00       | -36.83       |
| 539.25       | S               | -60.12          | -62.12                    | 4.00                       | -1.99               | -25.00       | -35.12       |
| 672.14       | S               | -58.84          | -60.15                    | 3.76                       | -2.45               | -25.00       | -33.84       |
| 5007.00      | H               | -52.53          | -57.07                    | 12.51                      | -7.98               | -25.00       | -27.53       |
| 7510.50      | H               | -29.31          | -30.11                    | 10.79                      | -9.99               | -25.00       | -4.31        |

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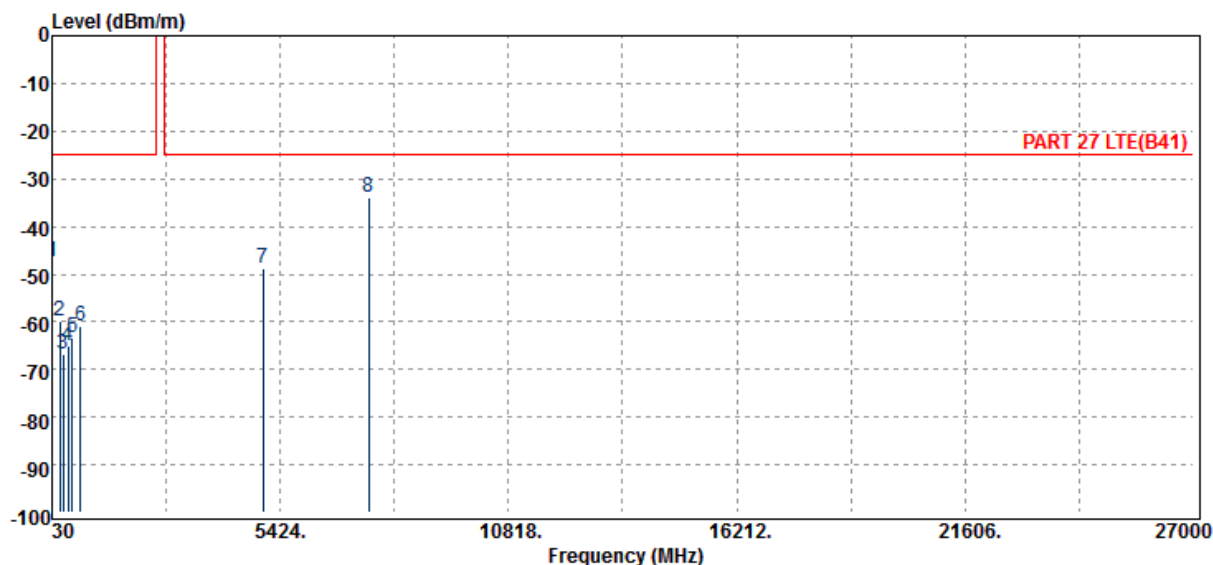
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|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B41    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2503.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW  |                  |                     |
| EUT Pol.              | :E2 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       | -47.41   | -32.25              | -14.58          | -0.58      | -25.00 | -22.41 |
| 212.36  | S       | -59.73   | -61.82              | 3.62            | -1.54      | -25.00 | -34.73 |
| 299.66  | S       | -66.91   | -68.69              | 3.61            | -1.82      | -25.00 | -41.91 |
| 401.51  | S       | -65.19   | -66.77              | 3.71            | -2.13      | -25.00 | -40.19 |
| 500.45  | S       | -63.23   | -65.08              | 4.05            | -2.21      | -25.00 | -38.23 |
| 697.36  | S       | -60.92   | -62.22              | 3.68            | -2.38      | -25.00 | -35.92 |
| 5007.00 | H       | -48.65   | -53.18              | 12.51           | -7.98      | -25.00 | -23.65 |
| 7510.50 | H       | -33.92   | -34.73              | 10.79           | -9.99      | -25.00 | -8.92  |

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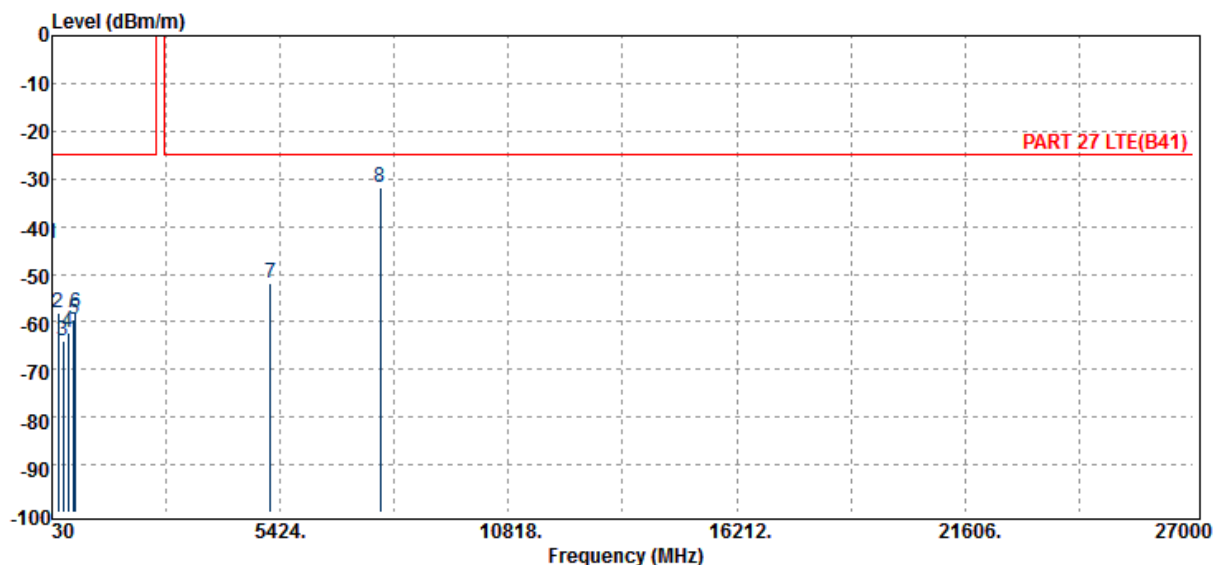
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Operation Band :LTE B41 Temp./Humi. :24.1 deg\_C / 65 RH  
Fundamental Frequency :2593 MHz Engineer :Tin  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane Measurement Pol. Antenna :VERTICAL



| 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 31.94        | S               | -43.71          | -29.04                    | -14.08                     | -0.59               | -25.00       | -18.71       |
| 173.56       | S               | -58.13          | -56.74                    | -0.04                      | -1.35               | -25.00       | -33.13       |
| 299.66       | S               | -63.98          | -65.76                    | 3.61                       | -1.82               | -25.00       | -38.98       |
| 415.09       | S               | -62.32          | -63.86                    | 3.66                       | -2.12               | -25.00       | -37.32       |
| 546.04       | S               | -59.64          | -61.82                    | 3.99                       | -1.81               | -25.00       | -34.64       |
| 584.84       | S               | -58.28          | -59.70                    | 3.67                       | -2.25               | -25.00       | -33.28       |
| 5186.00      | H               | -52.00          | -56.55                    | 12.73                      | -8.18               | -25.00       | -27.00       |
| 7779.00      | H               | -31.84          | -32.16                    | 10.63                      | -10.31              | -25.00       | -6.84        |

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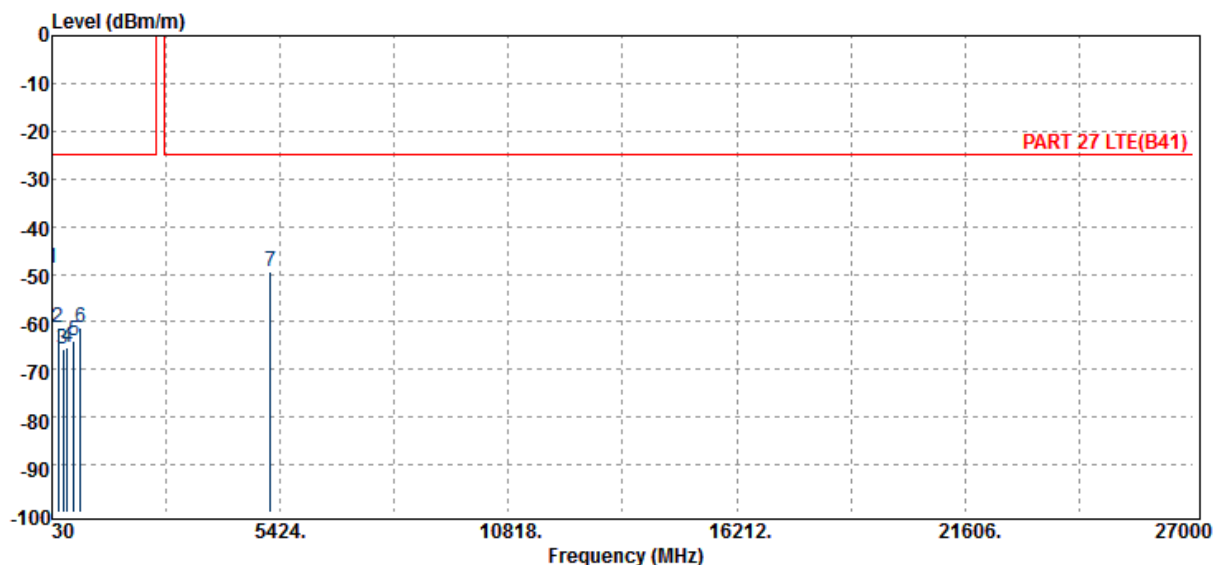
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B41   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2593 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH MID |                  |                     |
| EUT Pol.              | :E2 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     |
| 31.94   | S       | -48.65   | -33.98              | -14.08          | -0.59      | -25.00 | -23.65 |
| 172.59  | S       | -61.25   | -59.71              | -0.20           | -1.34      | -25.00 | -36.25 |
| 299.66  | S       | -65.64   | -67.43              | 3.61            | -1.82      | -25.00 | -40.64 |
| 395.69  | S       | -65.46   | -67.10              | 3.73            | -2.08      | -25.00 | -40.46 |
| 544.10  | S       | -64.00   | -66.20              | 3.99            | -1.79      | -25.00 | -39.00 |
| 697.36  | S       | -61.08   | -62.38              | 3.68            | -2.38      | -25.00 | -36.08 |
| 5186.00 | H       | -49.33   | -53.89              | 12.73           | -8.18      | -25.00 | -24.33 |

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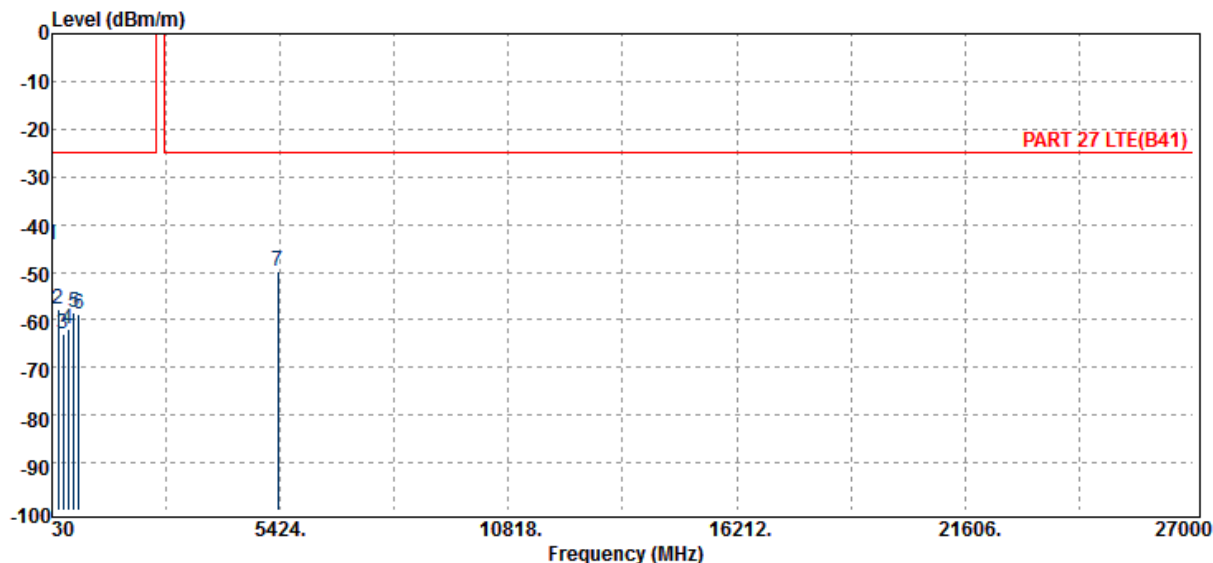
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B41    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2682.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :E2 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       | -44.38   | -29.70              | -14.08          | -0.59      | -25.00 | -19.38 |
| 170.65  | S       | -57.78   | -55.93              | -0.51           | -1.33      | -25.00 | -32.78 |
| 298.69  | S       | -62.98   | -64.75              | 3.59            | -1.82      | -25.00 | -37.98 |
| 403.45  | S       | -62.07   | -63.64              | 3.70            | -2.14      | -25.00 | -37.07 |
| 547.01  | S       | -58.61   | -60.73              | 3.98            | -1.86      | -25.00 | -33.61 |
| 657.59  | S       | -58.69   | -60.39              | 3.81            | -2.11      | -25.00 | -33.69 |
| 5365.00 | H       | -49.92   | -54.49              | 12.94           | -8.37      | -25.00 | -24.92 |

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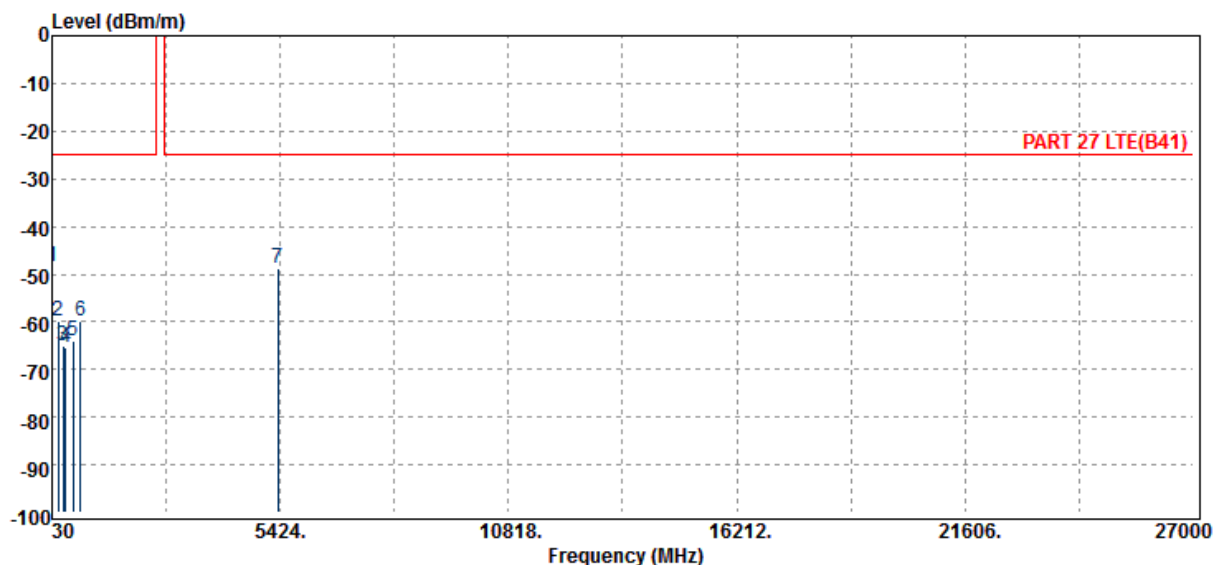
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B41    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :2682.5 MHz | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :E2 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       | -48.58   | -33.42              | -14.58          | -0.58      | -25.00 | -23.58 |
| 173.56  | S       | -59.96   | -58.57              | -0.04           | -1.35      | -25.00 | -34.96 |
| 298.69  | S       | -65.07   | -66.84              | 3.59            | -1.82      | -25.00 | -40.07 |
| 361.74  | S       | -65.24   | -67.00              | 3.82            | -2.06      | -25.00 | -40.24 |
| 537.31  | S       | -64.07   | -66.00              | 4.00            | -2.07      | -25.00 | -39.07 |
| 696.39  | S       | -59.96   | -61.19              | 3.69            | -2.46      | -25.00 | -34.96 |
| 5365.00 | H       | -48.84   | -53.41              | 12.94           | -8.37      | -25.00 | -23.84 |

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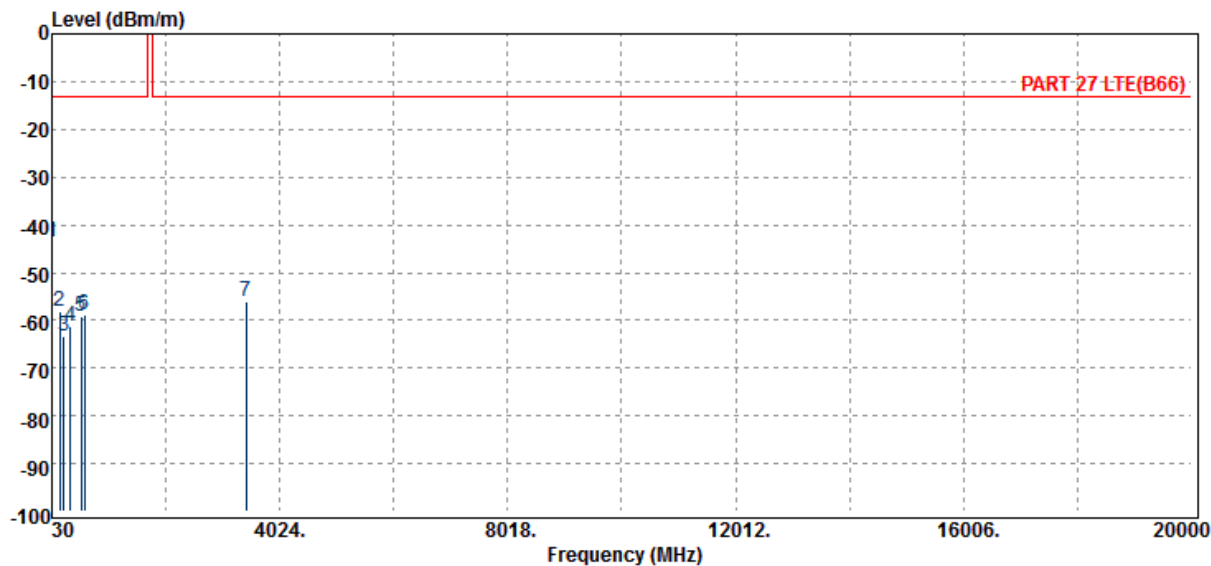
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B66   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1715 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               | -43.69          | -29.02                    | -14.08                     | -0.59               | -13.00       | -30.69       |
| 168.71       | S               | -58.10          | -56.08                    | -0.70                      | -1.33               | -13.00       | -45.10       |
| 241.46       | S               | -63.29          | -65.10                    | 3.49                       | -1.68               | -13.00       | -50.29       |
| 357.86       | S               | -61.08          | -62.86                    | 3.83                       | -2.05               | -13.00       | -48.08       |
| 541.19       | S               | -59.21          | -61.30                    | 3.99                       | -1.91               | -13.00       | -46.21       |
| 604.24       | S               | -58.80          | -60.22                    | 3.56                       | -2.14               | -13.00       | -45.80       |
| 3430.00      | H               | -56.11          | -61.81                    | 12.24                      | -6.54               | -13.00       | -43.11       |

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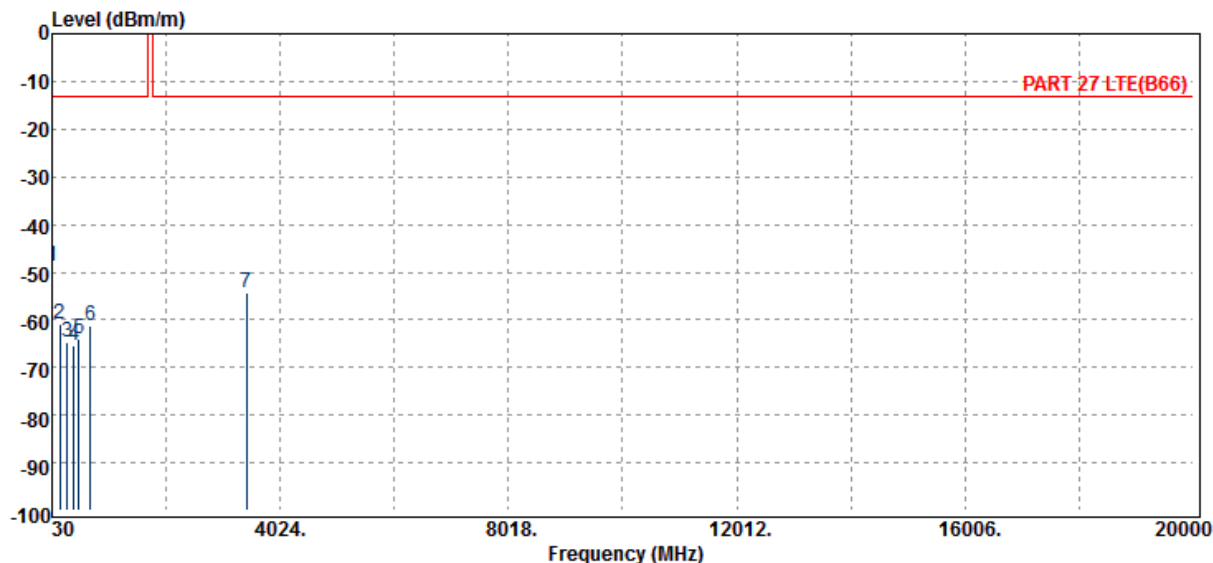
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B66   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1715 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW |                  |                     |
| 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               | -48.86          | -33.70                    | -14.58                     | -0.58               | -13.00       | -35.86       |
| 168.71       | S               | -61.00          | -58.98                    | -0.70                      | -1.33               | -13.00       | -48.00       |
| 299.66       | S               | -64.68          | -66.46                    | 3.61                       | -1.82               | -13.00       | -51.68       |
| 413.15       | S               | -65.50          | -67.04                    | 3.67                       | -2.13               | -13.00       | -52.50       |
| 497.54       | S               | -64.11          | -66.00                    | 4.03                       | -2.13               | -13.00       | -51.11       |
| 697.36       | S               | -61.15          | -62.45                    | 3.68                       | -2.38               | -13.00       | -48.15       |
| 3430.00      | H               | -54.29          | -59.98                    | 12.24                      | -6.54               | -13.00       | -41.29       |

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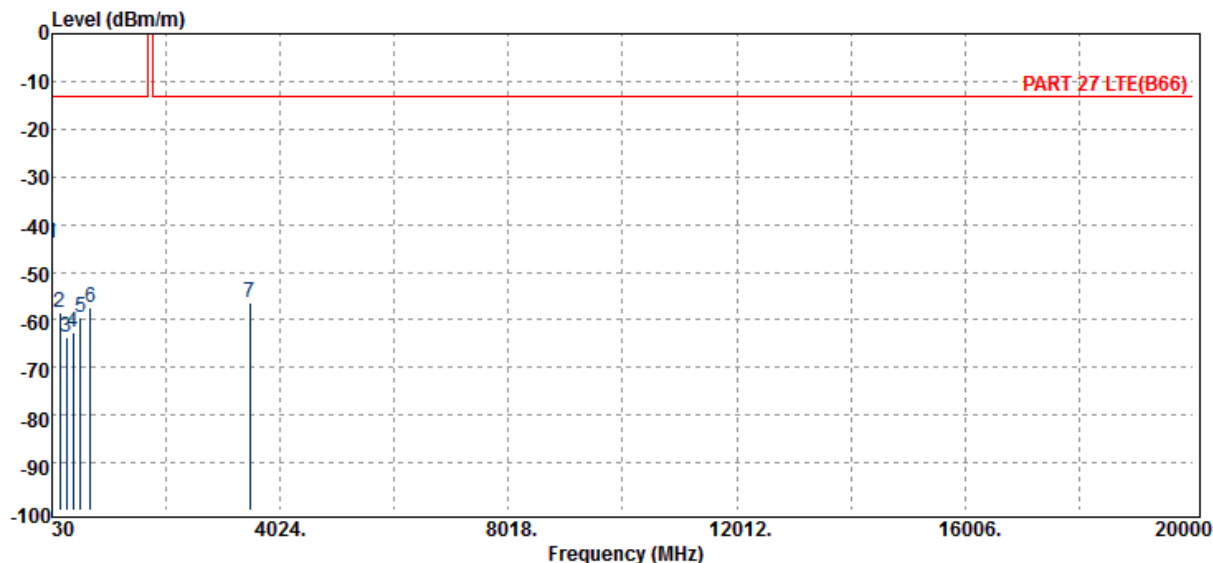
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|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B66   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1745 MHz  | Engineer         | :Tin                |
| Operation 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 |
|--------------|-----------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 31.94        | S               | -44.02          | -29.35                    | -14.08                     | -0.59               | -13.00       | -31.02       |
| 167.74       | S               | -58.41          | -56.34                    | -0.76                      | -1.32               | -13.00       | -45.41       |
| 285.11       | S               | -63.63          | -65.29                    | 3.42                       | -1.76               | -13.00       | -50.63       |
| 398.60       | S               | -62.49          | -64.10                    | 3.72                       | -2.10               | -13.00       | -49.49       |
| 531.49       | S               | -59.60          | -61.30                    | 4.01                       | -2.31               | -13.00       | -46.60       |
| 699.30       | S               | -57.35          | -58.79                    | 3.68                       | -2.24               | -13.00       | -44.35       |
| 3490.00      | H               | -56.29          | -62.09                    | 12.38                      | -6.58               | -13.00       | -43.29       |

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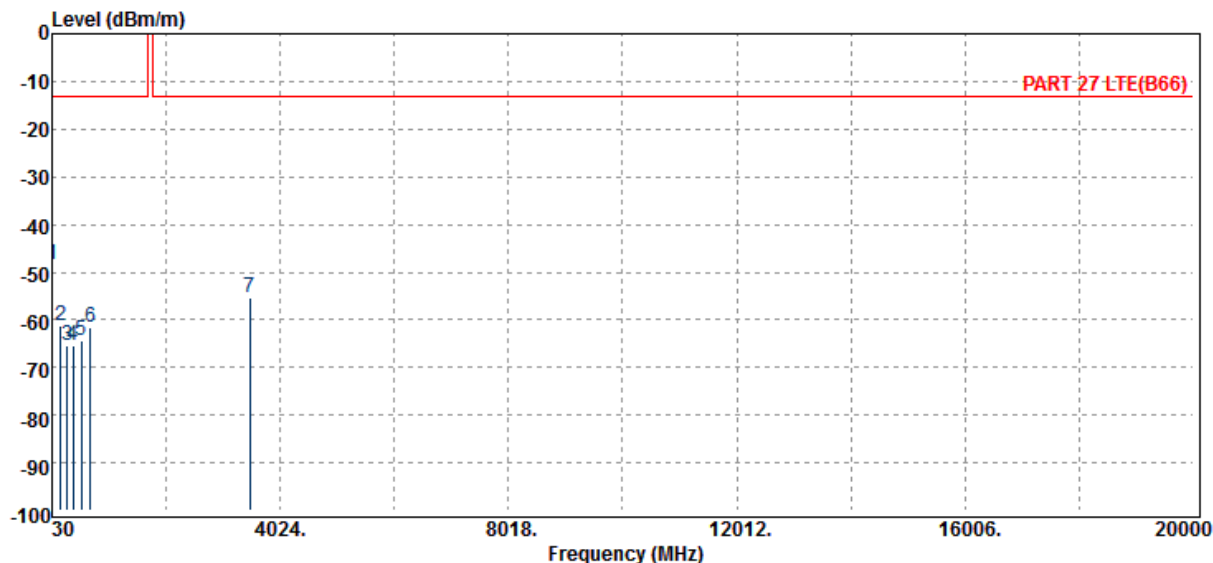
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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B66   | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1745 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               | -48.51          | -33.35                    | -14.58                     | -0.58               | -13.00       | -35.51       |
| 177.44       | S               | -61.19          | -60.40                    | 0.58                       | -1.37               | -13.00       | -48.19       |
| 299.66       | S               | -65.42          | -67.21                    | 3.61                       | -1.82               | -13.00       | -52.42       |
| 405.39       | S               | -65.38          | -66.93                    | 3.69                       | -2.15               | -13.00       | -52.38       |
| 544.10       | S               | -64.51          | -66.71                    | 3.99                       | -1.79               | -13.00       | -51.51       |
| 700.27       | S               | -61.47          | -62.99                    | 3.67                       | -2.16               | -13.00       | -48.47       |
| 3490.00      | H               | -55.22          | -61.02                    | 12.38                      | -6.58               | -13.00       | -42.22       |

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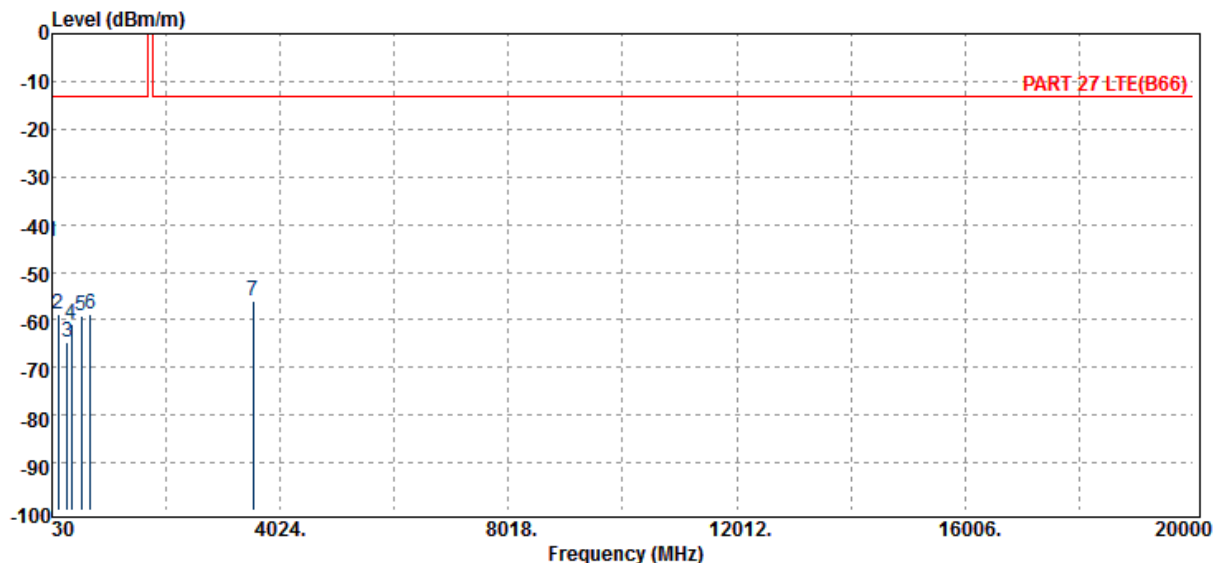
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B66    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1775 MHz   | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| EUT Pol.              | :E2 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     |
| 32.91   | S       | -43.62   | -29.18              | -13.84          | -0.60      | -13.00 | -30.62 |
| 134.76  | S       | -58.91   | -55.56              | -2.12           | -1.23      | -13.00 | -45.91 |
| 296.75  | S       | -64.73   | -66.47              | 3.55            | -1.81      | -13.00 | -51.73 |
| 374.35  | S       | -60.89   | -62.63              | 3.78            | -2.04      | -13.00 | -47.89 |
| 539.25  | S       | -59.13   | -61.14              | 4.00            | -1.99      | -13.00 | -46.13 |
| 699.30  | S       | -58.82   | -60.26              | 3.68            | -2.24      | -13.00 | -45.82 |
| 3550.00 | H       | -55.89   | -61.59              | 12.44           | -6.75      | -13.00 | -42.89 |

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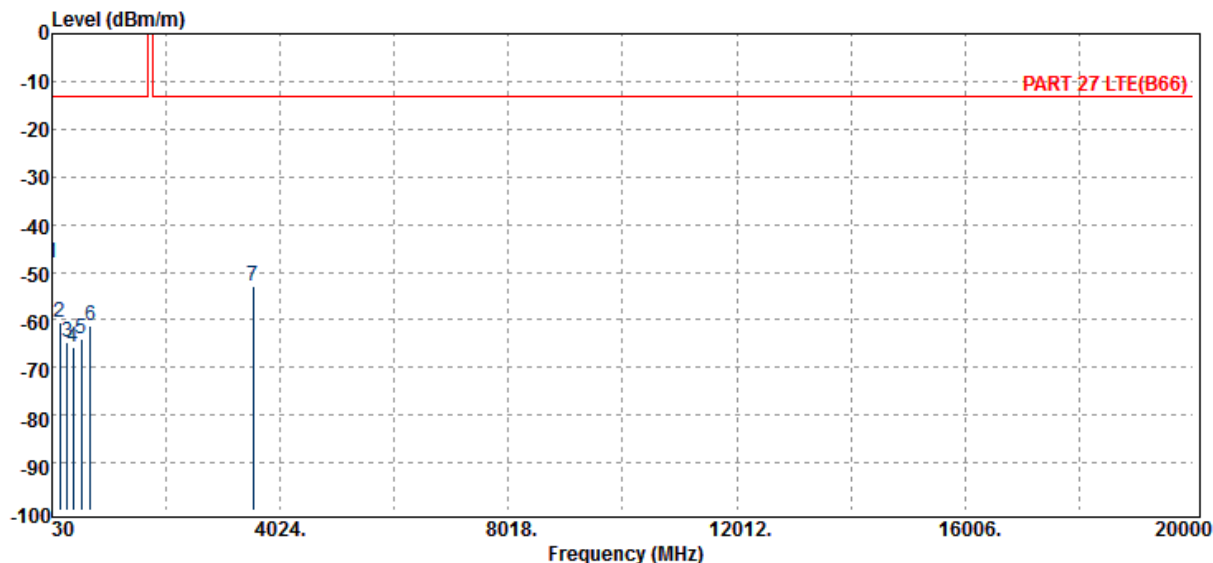
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|                       |             |                  |                     |
|-----------------------|-------------|------------------|---------------------|
| Operation Band        | :LTE B66    | Temp./Humi.      | :24.1 deg_C / 65 RH |
| Fundamental Frequency | :1775 MHz   | Engineer         | :Tin                |
| Operation Mode        | :Tx CH HIGH |                  |                     |
| 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               | -48.18          | -33.02                    | -14.58                     | -0.58               | -13.00       | -35.18       |
| 172.59       | S               | -60.67          | -59.13                    | -0.20                      | -1.34               | -13.00       | -47.67       |
| 299.66       | S               | -64.83          | -66.61                    | 3.61                       | -1.82               | -13.00       | -51.83       |
| 405.39       | S               | -65.71          | -67.26                    | 3.69                       | -2.15               | -13.00       | -52.71       |
| 542.16       | S               | -63.95          | -66.08                    | 3.99                       | -1.87               | -13.00       | -50.95       |
| 700.27       | S               | -61.34          | -62.85                    | 3.67                       | -2.16               | -13.00       | -48.34       |
| 3550.00      | H               | -53.09          | -58.78                    | 12.44                      | -6.75               | -13.00       | -40.09       |

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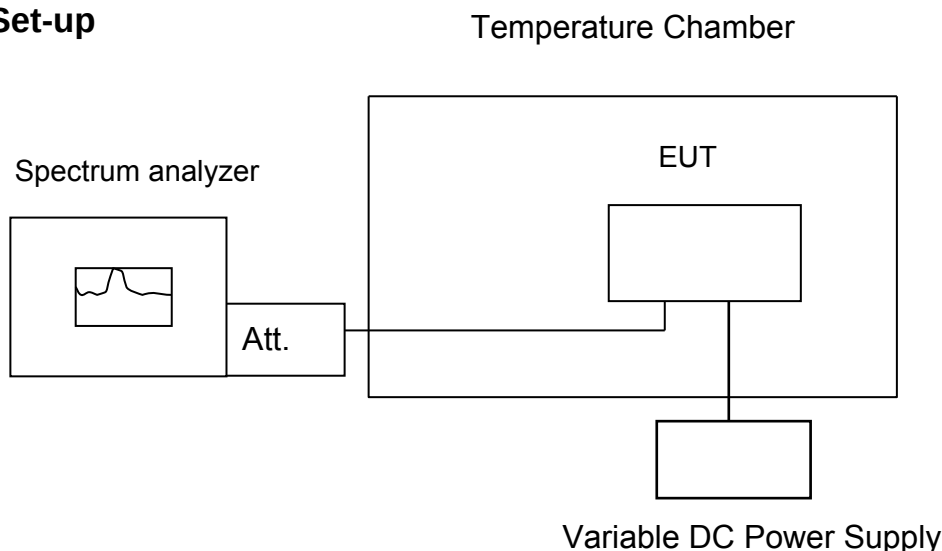
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## 11. FREQUENCY STABILITY MEASUREMENT

### 11.1. Standard Applicabl

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

### 11.2. Test Set-up



**Note:** Measurement setup for testing on Antenna connector

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### 11.3. Measurement Procedure

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

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

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#### 11.4. Measurement Equipment Used

| Conducted Emission (measured at antenna port) Test Site |              |              |                |            |            |
|---------------------------------------------------------|--------------|--------------|----------------|------------|------------|
| 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 Analyzer                            | Anritsu      | MT8820C      | 6201465317     | 2018/01/17 | 2019/01/16 |
| Attenuator                                              | Mini-Circuit | BW-S10W2+    | 2              | 2018/01/02 | 2019/1/1   |
| Splitter                                                | RF-LAMBAD    | RFLT2W1G18G  | 11-JSPF412-018 | 2018/01/02 | 2019/1/1   |
| Coaxial Cables                                          | N/A          | WK CE Cable  | N/A            | 2018/01/02 | 2019/1/1   |
| EXA Spectrum Analyzer                                   | Agilent      | N9010A       | MY54200716     | 2017/10/16 | 2018/10/15 |
| Radio Communication Analyzer                            | Anritsu      | MT8820C      | 6201465317     | 2018/01/17 | 2019/01/16 |
| Attenuator                                              | Mini-Circuit | BW-S10W2+    | 2              | 2018/01/02 | 2019/1/1   |

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## 11.5. Measurement Result

| WCDMA II Mid Channel 1880 MHz |            |             |              |            |
|-------------------------------|------------|-------------|--------------|------------|
| Limit +/- 2.5 ppm             |            |             |              |            |
| Vdc                           | Temp. (°C) | Freq. (MHz) | Delta (Hz)   | Limit (Hz) |
| FREQUENCY ERROR vs. VOLTAGE   |            |             |              |            |
| 17.7                          | 20         | 1879.999992 | -7.99999998  | 4700       |
| 15.4                          | 20         | 1880.000001 | 1.000000111  | 4700       |
| 12.3                          | 20         | 1879.999995 | -5.000000101 | 4700       |
| 12 (End point)                | 20         | 1880.000005 | 5.000000101  | 4700       |
| FREQUENCY ERROR vs. Temp.     |            |             |              |            |
| 15.4                          | 50         | 1880.000009 | 9.000000091  | 4700       |
| 15.4                          | 40         | 1879.999994 | -5.999999985 | 4700       |
| 15.4                          | 30         | 1879.999997 | -3.000000106 | 4700       |
| 15.4                          | 20         | 1880.000004 | 3.99999999   | 4700       |
| 15.4                          | 10         | 1880.000001 | 9.999999975  | 4700       |
| 15.4                          | 0          | 1879.999992 | -7.99999998  | 4700       |
| 15.4                          | -10        | 1879.999998 | -1.999999995 | 4700       |
| 15.4                          | -20        | 1880.000007 | 7.000000096  | 4700       |
| 15.4                          | -30        | 1879.999994 | -5.999999985 | 4700       |

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| WCDMA IV Mid Channel 1732.6 MHz |            |             |              |            |
|---------------------------------|------------|-------------|--------------|------------|
| Limit: +/- 2.5 ppm              |            |             |              |            |
| Vdc                             | Temp. (°C) | Freq. (MHz) | Delta (Hz)   | Limit (Hz) |
| FREQUENCY ERROR vs. VOLTAGE     |            |             |              |            |
| 17.7                            | 20         | 1732.599994 | -5.999999985 | 4331       |
| 15.4                            | 20         | 1732.600008 | 7.999999998  | 4331       |
| 12.3                            | 20         | 1732.600007 | 7.000000096  | 4331       |
| 12 (End point)                  | 20         | 1732.600007 | 7.000000096  | 4331       |
| FREQUENCY ERROR vs. Temp.       |            |             |              |            |
| 15.4                            | 50         | 1732.599994 | -5.999999985 | 4331       |
| 15.4                            | 40         | 1732.599996 | -3.999999999 | 4331       |
| 15.4                            | 30         | 1732.600009 | 9.000000091  | 4331       |
| 15.4                            | 20         | 1732.600009 | 9.000000091  | 4331       |
| 15.4                            | 10         | 1732.599999 | -0.999999884 | 4331       |
| 15.4                            | 0          | 1732.599992 | -7.99999998  | 4331       |
| 15.4                            | -10        | 1732.600006 | 5.999999985  | 4331       |
| 15.4                            | -20        | 1732.600009 | 9.000000091  | 4331       |
| 15.4                            | -30        | 1732.599991 | -8.999999864 | 4331       |
| WCDMA V Mid Channel 836.6 MHz   |            |             |              |            |
| Limit: +/- 2.5 ppm              |            |             |              |            |
| Vdc                             | Temp. (°C) | Freq. (MHz) | Delta (Hz)   | Limit (Hz) |
| FREQUENCY ERROR vs. VOLTAGE     |            |             |              |            |
| 17.7                            | 20         | 836.6       | 0            | 2091       |
| 15.4                            | 20         | 836.599994  | -5.999999985 | 2091       |
| 12.3                            | 20         | 836.599999  | -0.999999997 | 2091       |
| 12 (End point)                  | 20         | 836.600005  | 4.999999987  | 2091       |
| FREQUENCY ERROR vs. Temp.       |            |             |              |            |
| 15.4                            | 50         | 836.599999  | -0.999999997 | 2091       |
| 15.4                            | 40         | 836.599997  | -2.999999992 | 2091       |
| 15.4                            | 30         | 836.600003  | 2.999999992  | 2091       |
| 15.4                            | 20         | 836.600007  | 6.999999982  | 2091       |
| 15.4                            | 10         | 836.599998  | -1.999999995 | 2091       |
| 15.4                            | 0          | 836.599996  | -3.999999999 | 2091       |
| 15.4                            | -10        | 836.599997  | -2.999999992 | 2091       |
| 15.4                            | -20        | 836.600007  | 6.999999982  | 2091       |
| 15.4                            | -30        | 836.599999  | -9.999999975 | 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 |                    |             |             |                          |
| 17.7                    | 25                 | 1880.000009 | 9.00000009  | 4700                     |
| 15.4                    | 25                 | 1880.000008 | 7.99999998  | 4700                     |
| 12.3                    | 25                 | 1880.000001 | 1.00000011  | 4700                     |
| 12<br>(End Point)       | 25                 | 1879.999997 | -3.00000001 | 4700                     |
| Freq. ERROR vs. Temp.   |                    |             |             |                          |
| 15.4                    | -30                | 1880.000001 | 1.00000011  | 4700                     |
| 15.4                    | -20                | 1880.000010 | 9.99999997  | 4700                     |
| 15.4                    | -10                | 1879.999998 | -2          | 4700                     |
| 15.4                    | 0                  | 1879.999999 | -1.00000001 | 4700                     |
| 15.4                    | 10                 | 1880.000004 | 3.99999999  | 4700                     |
| 15.4                    | 20                 | 1880.000002 | 1.99999999  | 4700                     |
| 15.4                    | 30                 | 1880.000000 | 0           | 4700                     |
| 15.4                    | 40                 | 1879.999990 | -10         | 4700                     |
| 15.4                    | 50                 | 1880.000002 | 1.99999999  | 4700                     |

| 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 |                    |             |             |                          |
| 17.7                    | 25                 | 1732.499993 | -7.00000001 | 4331                     |
| 15.4                    | 25                 | 1732.499997 | -3.00000001 | 4331                     |
| 12.3                    | 25                 | 1732.499997 | -3.00000001 | 4331                     |
| 12<br>(End Point)       | 25                 | 1732.500004 | 3.99999999  | 4331                     |
| Freq. ERROR vs. Temp.   |                    |             |             |                          |
| 15.4                    | -30                | 1732.499999 | -1.00000001 | 4331                     |
| 15.4                    | -20                | 1732.499993 | -7.00000001 | 4331                     |
| 15.4                    | -10                | 1732.500008 | 7.99999998  | 4331                     |
| 15.4                    | 0                  | 1732.499992 | -8          | 4331                     |
| 15.4                    | 10                 | 1732.500001 | 1.00000011  | 4331                     |
| 15.4                    | 20                 | 1732.499997 | -3.00000001 | 4331                     |
| 15.4                    | 30                 | 1732.500002 | 1.99999999  | 4331                     |
| 15.4                    | 40                 | 1732.500004 | 3.99999999  | 4331                     |
| 15.4                    | 50                 | 1732.499994 | -6          | 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 |                    |             |            |                          |
| 17.7                    | 25                 | 836.500007  | 6.99999998 | 2091                     |
| 15.4                    | 25                 | 836.500000  | 0          | 2091                     |
| 12.3                    | 25                 | 836.500006  | 5.99999998 | 2091                     |
| 12<br>(End Point)       | 25                 | 836.500001  | 1          | 2091                     |
| Freq. ERROR vs. Temp.   |                    |             |            |                          |
| 15.4                    | -30                | 836.499999  | -1         | 2091                     |
| 15.4                    | -20                | 836.499991  | -9         | 2091                     |
| 15.4                    | -10                | 836.500009  | 8.99999998 | 2091                     |
| 15.4                    | 0                  | 836.500005  | 4.99999999 | 2091                     |
| 15.4                    | 10                 | 836.499996  | -4         | 2091                     |
| 15.4                    | 20                 | 836.499994  | -6         | 2091                     |
| 15.4                    | 30                 | 836.500004  | 3.99999999 | 2091                     |
| 15.4                    | 40                 | 836.500009  | 8.99999998 | 2091                     |
| 15.4                    | 50                 | 836.500002  | 1.99999999 | 2091                     |
| Reference Freq.:        | LTE B7 Mid Channel |             | 2535       | MHz 10M QPSK CH 21100    |
| Power Supply Vdc        | Temp. (°C)         | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| Freq. ERROR vs. VOLTAGE |                    |             |            |                          |
| 17.7                    | 25                 | 2535.000009 | 8.99999986 | 6338                     |
| 15.4                    | 25                 | 2534.999991 | -8.9999999 | 6338                     |
| 12.3                    | 25                 | 2535.000010 | 10.0000002 | 6338                     |
| 12<br>(End Point)       | 25                 | 2535.000003 | 3.00000011 | 6338                     |
| Freq. ERROR vs. Temp.   |                    |             |            |                          |
| 15.4                    | -30                | 2534.999996 | -4         | 6338                     |
| 15.4                    | -20                | 2534.999995 | -4.9999999 | 6338                     |
| 15.4                    | -10                | 2534.999992 | -8         | 6338                     |
| 15.4                    | 0                  | 2535.000007 | 7.0000001  | 6338                     |
| 15.4                    | 10                 | 2534.999992 | -8         | 6338                     |
| 15.4                    | 20                 | 2535.000006 | 6.00000021 | 6338                     |
| 15.4                    | 30                 | 2534.999998 | -2.0000002 | 6338                     |
| 15.4                    | 40                 | 2534.999997 | -3.0000001 | 6338                     |
| 15.4                    | 50                 | 2535.000007 | 7.0000001  | 6338                     |

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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) |
| Freq. ERROR vs. VOLTAGE |                     |             |            |                          |
| 17.7                    | 25                  | 707.500003  | 2.99999999 | 1769                     |
| 15.4                    | 25                  | 707.500009  | 8.99999998 | 1769                     |
| 12.3                    | 25                  | 707.499991  | -9         | 1769                     |
| 12<br>(End Point)       | 25                  | 707.500004  | 3.99999999 | 1769                     |
| Freq. ERROR vs. Temp.   |                     |             |            |                          |
| 15.4                    | -30                 | 707.499990  | -10        | 1769                     |
| 15.4                    | -20                 | 707.499995  | -5         | 1769                     |
| 15.4                    | -10                 | 707.500006  | 5.99999998 | 1769                     |
| 15.4                    | 0                   | 707.499994  | -6         | 1769                     |
| 15.4                    | 10                  | 707.500002  | 1.99999999 | 1769                     |
| 15.4                    | 20                  | 707.499994  | -6         | 1769                     |
| 15.4                    | 30                  | 707.500001  | 1          | 1769                     |
| 15.4                    | 40                  | 707.499991  | -9         | 1769                     |
| 15.4                    | 50                  | 707.500009  | 8.99999998 | 1769                     |
| 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 |                     |             |            |                          |
| 17.7                    | 25                  | 781.999993  | -7         | 1955                     |
| 15.4                    | 25                  | 782.000010  | 9.99999997 | 1955                     |
| 12.3                    | 25                  | 782.000005  | 4.99999999 | 1955                     |
| 12<br>(End Point)       | 25                  | 782.000001  | 1          | 1955                     |
| Freq. ERROR vs. Temp.   |                     |             |            |                          |
| 15.4                    | -30                 | 782.000010  | 9.99999997 | 1955                     |
| 15.4                    | -20                 | 782.000010  | 9.99999997 | 1955                     |
| 15.4                    | -10                 | 781.999995  | -5         | 1955                     |
| 15.4                    | 0                   | 782.000004  | 3.99999999 | 1955                     |
| 15.4                    | 10                  | 782.000009  | 8.99999998 | 1955                     |
| 15.4                    | 20                  | 781.999994  | -6         | 1955                     |
| 15.4                    | 30                  | 782.000007  | 6.99999998 | 1955                     |
| 15.4                    | 40                  | 782.000007  | 6.99999998 | 1955                     |
| 15.4                    | 50                  | 782.000009  | 8.99999998 | 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) |
| Freq. ERROR vs. VOLTAGE |                     |             |            |                          |
| 17.7                    | 25                  | 710.000008  | 7.99999998 | 1775                     |
| 15.4                    | 25                  | 710.000002  | 1.99999999 | 1775                     |
| 12.3                    | 25                  | 709.999990  | -10        | 1775                     |
| 12<br>(End Point)       | 25                  | 710.000000  | 0          | 1775                     |
| Freq. ERROR vs. Temp.   |                     |             |            |                          |
| 15.4                    | -30                 | 709.999998  | -2         | 1775                     |
| 15.4                    | -20                 | 709.999998  | -2         | 1775                     |
| 15.4                    | -10                 | 709.999999  | -1         | 1775                     |
| 15.4                    | 0                   | 710.000002  | 1.99999999 | 1775                     |
| 15.4                    | 10                  | 709.999996  | -4         | 1775                     |
| 15.4                    | 20                  | 709.999994  | -6         | 1775                     |
| 15.4                    | 30                  | 709.999993  | -7         | 1775                     |
| 15.4                    | 40                  | 710.000003  | 2.99999999 | 1775                     |
| 15.4                    | 50                  | 710.000002  | 1.99999999 | 1775                     |
| Reference Freq.:        | LTE B26 Mid Channel |             | 831.5      | MHz 15M QPSK CH 26865    |
| Power Supply Vdc        | Temp. (°C)          | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| Freq. ERROR vs. VOLTAGE |                     |             |            |                          |
| 17.7                    | 25                  | 831.500005  | 4.99999999 | 2091                     |
| 15.4                    | 25                  | 831.499998  | -2         | 2091                     |
| 12.3                    | 25                  | 831.500003  | 2.99999999 | 2091                     |
| 12<br>(End Point)       | 25                  | 831.500002  | 1.99999999 | 2091                     |
| Freq. ERROR vs. Temp.   |                     |             |            |                          |
| 15.4                    | -30                 | 831.499999  | -1         | 2091                     |
| 15.4                    | -20                 | 831.500001  | 1          | 2091                     |
| 15.4                    | -10                 | 831.499999  | -1         | 2091                     |
| 15.4                    | 0                   | 831.500003  | 2.99999999 | 2091                     |
| 15.4                    | 10                  | 831.499993  | -7         | 2091                     |
| 15.4                    | 20                  | 831.499994  | -6         | 2091                     |
| 15.4                    | 30                  | 831.500004  | 3.99999999 | 2091                     |
| 15.4                    | 40                  | 831.499998  | -2         | 2091                     |
| 15.4                    | 50                  | 831.500009  | 8.99999998 | 2091                     |

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| Reference Freq.:                               | Part 90 LTE B26 Mid Channel |             | 819        | MHz 10M QPSK CH 26740    |
|------------------------------------------------|-----------------------------|-------------|------------|--------------------------|
| Power Supply Vdc                               | Temp. (°C)                  | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S) |                             |             |            |                          |
| 17.7                                           | 25                          | 819.000002  | 1.99999999 | 2048                     |
| 15.4                                           | 25                          | 818.999990  | -10        | 2048                     |
| 12.3                                           | 25                          | 819.000003  | 2.99999999 | 2048                     |
| 12<br>(End Point)                              | 25                          | 819.000003  | 2.99999999 | 2048                     |
| Freq. ERROR vs. Temp.                          |                             |             |            |                          |
| 15.4                                           | -30                         | 819.000002  | 1.99999999 | 2048                     |
| 15.4                                           | -20                         | 818.999991  | -9         | 2048                     |
| 15.4                                           | -10                         | 819.000005  | 4.99999999 | 2048                     |
| 15.4                                           | 0                           | 819.000001  | 1          | 2048                     |
| 15.4                                           | 10                          | 819.000009  | 8.99999998 | 2048                     |
| 15.4                                           | 20                          | 818.999995  | -5         | 2048                     |
| 15.4                                           | 30                          | 818.999990  | -10        | 2048                     |
| 15.4                                           | 40                          | 818.999997  | -3         | 2048                     |
| 15.4                                           | 50                          | 819.000001  | 1          | 2048                     |

| Reference Freq.:        | LTE B30 Mid Channel |             | 2310       | MHz 10M QPSK CH 27710    |
|-------------------------|---------------------|-------------|------------|--------------------------|
| Power Supply Vdc        | Temp. (°C)          | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| Freq. ERROR vs. VOLTAGE |                     |             |            |                          |
| 17.7                    | 25                  | 2309.999992 | -8         | 6488                     |
| 15.4                    | 25                  | 2310.000002 | 2.00000022 | 6488                     |
| 12.3                    | 25                  | 2309.999992 | -8         | 6488                     |
| 12<br>(End Point)       | 25                  | 2310.000001 | 0.99999988 | 6488                     |
| Freq. ERROR vs. Temp.   |                     |             |            |                          |
| 15.4                    | -30                 | 2309.999992 | -8         | 6488                     |
| 15.4                    | -20                 | 2309.999991 | -8.9999999 | 6488                     |
| 15.4                    | -10                 | 2309.999996 | -4         | 6488                     |
| 15.4                    | 0                   | 2310.000001 | 0.99999988 | 6488                     |
| 15.4                    | 10                  | 2309.999999 | -0.9999999 | 6488                     |
| 15.4                    | 20                  | 2309.999997 | -3.0000001 | 6488                     |
| 15.4                    | 30                  | 2310.000004 | 3.99999999 | 6488                     |
| 15.4                    | 40                  | 2309.999992 | -8         | 6488                     |
| 15.4                    | 50                  | 2310.000004 | 3.99999999 | 6488                     |

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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 |                     |             |            |                          |
| 17.7                    | 25                  | 2594.999998 | -2.0000002 | 6488                     |
| 15.4                    | 25                  | 2595.000003 | 3.00000011 | 6488                     |
| 12.3                    | 25                  | 2594.999993 | -7.0000001 | 6488                     |
| 12<br>(End Point)       | 25                  | 2595.000004 | 3.99999999 | 6488                     |
| Freq. ERROR vs. Temp.   |                     |             |            |                          |
| 15.4                    | -30                 | 2594.999993 | -7.0000001 | 6488                     |
| 15.4                    | -20                 | 2595.000009 | 8.99999986 | 6488                     |
| 15.4                    | -10                 | 2594.999996 | -4         | 6488                     |
| 15.4                    | 0                   | 2594.999995 | -4.9999999 | 6488                     |
| 15.4                    | 10                  | 2595.000000 | 0          | 6488                     |
| 15.4                    | 20                  | 2595.000007 | 7.0000001  | 6488                     |
| 15.4                    | 30                  | 2595.000001 | 0.99999988 | 6488                     |
| 15.4                    | 40                  | 2595.000000 | 0          | 6488                     |
| 15.4                    | 50                  | 2595.000010 | 10.0000002 | 6488                     |

| Reference Freq.:        | LTE B41 Mid Channel |             | 2593       | MHz 10M QPSK CH 40620    |
|-------------------------|---------------------|-------------|------------|--------------------------|
| Power Supply Vdc        | Temp. (°C)          | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| Freq. ERROR vs. VOLTAGE |                     |             |            |                          |
| 17.7                    | 25                  | 2592.999994 | -6.0000002 | 6488                     |
| 15.4                    | 25                  | 2593.000003 | 3.00000011 | 6488                     |
| 12.3                    | 25                  | 2593.000007 | 7.0000001  | 6488                     |
| 12<br>(End Point)       | 25                  | 2593.000002 | 2.00000022 | 6488                     |
| Freq. ERROR vs. Temp.   |                     |             |            |                          |
| 15.4                    | -30                 | 2592.999997 | -3.0000001 | 6488                     |
| 15.4                    | -20                 | 2593.000001 | 0.99999988 | 6488                     |
| 15.4                    | -10                 | 2593.000001 | 0.99999988 | 6488                     |
| 15.4                    | 0                   | 2593.000005 | 4.99999987 | 6488                     |
| 15.4                    | 10                  | 2593.000004 | 3.99999999 | 6488                     |
| 15.4                    | 20                  | 2592.999992 | -8         | 6488                     |
| 15.4                    | 30                  | 2592.999995 | -4.9999999 | 6488                     |
| 15.4                    | 40                  | 2593.000006 | 6.00000021 | 6488                     |
| 15.4                    | 50                  | 2593.000001 | 0.99999988 | 6488                     |

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| Reference Freq.:        | LTE B66 Mid Channel |             | 1745       | MHz 10M QPSK CH 132322   |
|-------------------------|---------------------|-------------|------------|--------------------------|
| Power Supply Vdc        | Temp. (°C)          | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| Freq. ERROR vs. VOLTAGE |                     |             |            |                          |
| 17.7                    | 25                  | 1744.999993 | -7.0000001 | 6488                     |
| 15.4                    | 25                  | 1745.000004 | 3.99999999 | 6488                     |
| 12.3                    | 25                  | 1745.000008 | 7.99999998 | 6488                     |
| 12<br>(End Point)       | 25                  | 1745.000005 | 5.0000001  | 6488                     |
| Freq. ERROR vs. Temp.   |                     |             |            |                          |
| 15.4                    | -30                 | 1745.000008 | 7.99999998 | 6488                     |
| 15.4                    | -20                 | 1745.000001 | 1.00000011 | 6488                     |
| 15.4                    | -10                 | 1745.000002 | 1.99999999 | 6488                     |
| 15.4                    | 0                   | 1744.999997 | -3.0000001 | 6488                     |
| 15.4                    | 10                  | 1744.999990 | -10        | 6488                     |
| 15.4                    | 20                  | 1745.000006 | 5.99999998 | 6488                     |
| 15.4                    | 30                  | 1745.000010 | 9.99999997 | 6488                     |
| 15.4                    | 40                  | 1744.999997 | -3.0000001 | 6488                     |
| 15.4                    | 50                  | 1745.000010 | 9.99999997 | 6488                     |

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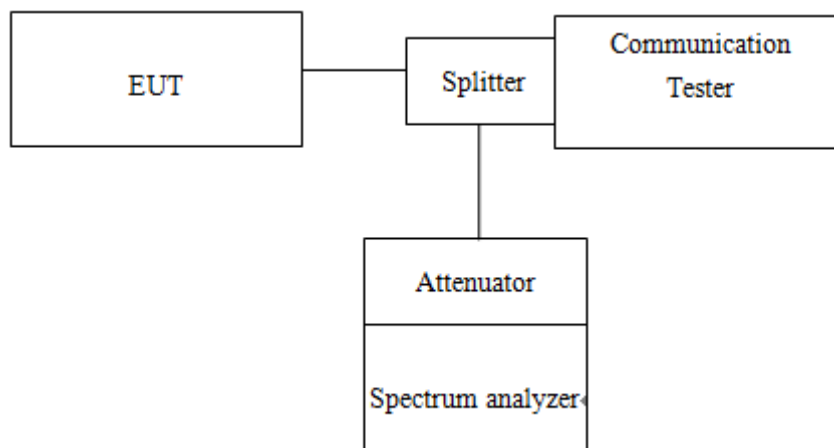
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## 12. PEAK TO AVERAGE RATIO

### 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

| Conducted Emission (measured at antenna port) Test Site |           |                    |               |            |            |
|---------------------------------------------------------|-----------|--------------------|---------------|------------|------------|
| EQUIPMENT TYPE                                          | MFR       | MODEL NUMBER       | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Spectrum Analyzer                                       | KEYSIGHT  | N9010A             | MY51440113    | 06/20/2017 | 06/19/2018 |
| Communication Tester                                    | Anritsu   | MT8820C            | 6201107337    | 05/25/2017 | 05/24/2018 |
| Coaxial Cable 30cm                                      | WOKEN     | 00100A1F1A<br>195C | RF01          | 12/12/2016 | 12/11/2017 |
| Temperature Chamber                                     | TERCHY    | MHK-120LK          | 1020582       | 06/13/2017 | 06/12/2018 |
| DC Block                                                | PASTERNAK | PE8210             | RF29          | 12/12/2016 | 12/11/2017 |
| Splitter                                                | RF-LAMBAD | RFLT2W1G1<br>8G    | RF35          | 12/12/2016 | 12/11/2017 |
| Attenuator                                              | WOKEN     | 218FS-10           | RF23          | 12/12/2016 | 12/11/2017 |
| DC Power Supply                                         | Agilent   | E3640A             | MY53140006    | 05/02/2017 | 05/01/2018 |
| Communication Tester                                    | Anritsu   | MT8820C            | 6201107337    | 05/25/2017 | 05/24/2018 |

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## 12.5. Measurement Result

### Tabular Results:

| Freq.<br>(MHz) | CH   | Peak-to-Average Ratio (dB) |             |             |
|----------------|------|----------------------------|-------------|-------------|
|                |      | WCDMA<br>II                | HSDPA<br>II | HSUPA<br>II |
| 1852.4         | 9262 | 3.55                       | 3.55        | 3.56        |
| 1880           | 9400 | 3.53                       | 3.54        | 3.55        |
| 1907.6         | 9538 | 3.51                       | 3.49        | 3.49        |

| Freq.<br>(MHz) | CH   | Peak-to-Average Ratio (dB) |             |             |
|----------------|------|----------------------------|-------------|-------------|
|                |      | WCDMA<br>IV                | HSDPA<br>IV | HSUPA<br>IV |
| 1712.4         | 1312 | 3.49                       | 3.43        | 3.45        |
| 1732.6         | 1413 | 3.46                       | 3.48        | 3.47        |
| 1752.6         | 1513 | 3.44                       | 3.46        | 3.44        |

| Freq.<br>(MHz) | CH   | Peak-to-Average Ratio (dB) |            |            |
|----------------|------|----------------------------|------------|------------|
|                |      | WCDMA<br>V                 | HSDPA<br>V | HSUPA<br>V |
| 826.4          | 4132 | 3.07                       | 3.07       | 3.09       |
| 836.6          | 4183 | 3.26                       | 3.25       | 3.26       |
| 846.6          | 4233 | 3.08                       | 3.06       | 3.07       |

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| LTE BAND 2                |       |           |       |                          |       |           |       |
|---------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 1.4MHz |       |           |       | Channel bandwidth: 3MHz  |       |           |       |
| Freq.<br>(MHz)            | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                           |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 1850.7                    | 18607 | 6.94      | 13    | 1851.5                   | 18615 | 6.99      | 13    |
| 1880.0                    | 18900 | 6.77      | 13    | 1880.0                   | 18900 | 6.79      | 13    |
| 1909.3                    | 19193 | 6.64      | 13    | 1908.5                   | 19185 | 6.56      | 13    |
|                           |       |           |       |                          |       |           |       |
| LTE BAND 2                |       |           |       |                          |       |           |       |
| Channel bandwidth: 5MHz   |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)            | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                           |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 1852.5                    | 18625 | 6.75      | 13    | 1855.0                   | 18650 | 6.74      | 13    |
| 1880.0                    | 18900 | 6.80      | 13    | 1880.0                   | 18900 | 6.66      | 13    |
| 1907.5                    | 19175 | 6.54      | 13    | 1905.0                   | 19150 | 6.54      | 13    |
|                           |       |           |       |                          |       |           |       |
| LTE BAND 2                |       |           |       |                          |       |           |       |
| Channel bandwidth: 15MHz  |       |           |       | Channel bandwidth: 20MHz |       |           |       |
| Freq.<br>(MHz)            | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                           |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 1857.5                    | 18675 | 6.42      | 13    | 1860.0                   | 18700 | 6.81      | 13    |
| 1880.0                    | 18900 | 6.36      | 13    | 1880.0                   | 18900 | 6.73      | 13    |
| 1902.5                    | 19125 | 6.28      | 13    | 1900.0                   | 19100 | 6.72      | 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) |       |
|                           |       | 16QAM     | Limit |                         |       | 16QAM     | Limit |
| 1710.7                    | 19957 | 6.85      | 13    | 1711.5                  | 19965 | 6.70      | 13    |
| 1732.5                    | 20175 | 6.98      | 13    | 1732.5                  | 20175 | 6.62      | 13    |
| 1754.3                    | 20393 | 6.71      | 13    | 1753.5                  | 20385 | 6.59      | 13    |

| LTE BAND 4              |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 1712.5                  | 19957 | 6.64      | 13    | 1715.0                   | 20000 | 6.41      | 13    |
| 1732.5                  | 20175 | 6.51      | 13    | 1732.5                   | 20175 | 6.56      | 13    |
| 1752.5                  | 20375 | 6.51      | 13    | 1750.0                   | 20350 | 6.41      | 13    |

| LTE BAND 4               |       |           |       |                          |       |           |       |
|--------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 15MHz |       |           |       | Channel bandwidth: 20MHz |       |           |       |
| Freq.<br>(MHz)           | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                          |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 1717.5                   | 20025 | 6.21      | 13    | 1720.0                   | 20050 | 6.66      | 13    |
| 1732.5                   | 20175 | 6.37      | 13    | 1732.5                   | 20175 | 6.73      | 13    |
| 1747.5                   | 20325 | 6.26      | 13    | 1745.0                   | 20300 | 6.65      | 13    |

| LTE BAND 5                |       |           |       |                         |       |           |       |
|---------------------------|-------|-----------|-------|-------------------------|-------|-----------|-------|
| Channel bandwidth: 1.4MHz |       |           |       | Channel bandwidth: 3MHz |       |           |       |
| Freq.<br>(MHz)            | CH    | PAPR (dB) |       | Freq.<br>(MHz)          | CH    | PAPR (dB) |       |
|                           |       | 16QAM     | Limit |                         |       | 16QAM     | Limit |
| 824.7                     | 20407 | 5.14      | 13    | 825.5                   | 20415 | 5.71      | 13    |
| 836.5                     | 20525 | 6.65      | 13    | 836.5                   | 20525 | 6.49      | 13    |
| 848.3                     | 20643 | 6.08      | 13    | 847.5                   | 20635 | 6.20      | 13    |

| LTE BAND 5              |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 826.5                   | 20425 | 5.57      | 13    | 829.0                    | 20450 | 5.95      | 13    |
| 836.5                   | 20525 | 6.43      | 13    | 836.5                    | 20525 | 6.47      | 13    |
| 846.5                   | 20625 | 5.80      | 13    | 844.0                    | 20600 | 5.82      | 13    |

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| LTE BAND 7              |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 2502.5                  | 20775 | 5.88      | 13    | 2505.0                   | 20800 | 5.99      | 13    |
| 2535.0                  | 21100 | 6.05      | 13    | 2535.0                   | 21100 | 6.15      | 13    |
| 2567.5                  | 21375 | 6.00      | 13    | 2565.0                   | 21350 | 5.98      | 13    |

| LTE BAND 7               |       |           |       |                          |       |           |       |
|--------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 15MHz |       |           |       | Channel bandwidth: 20MHz |       |           |       |
| Freq.<br>(MHz)           | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                          |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 2507.5                   | 20825 | 6.07      | 13    | 2510                     | 20850 | 6.68      | 13    |
| 2535.0                   | 21100 | 6.05      | 13    | 2535                     | 21100 | 6.56      | 13    |
| 2562.5                   | 21375 | 6.06      | 13    | 2560                     | 21350 | 6.67      | 13    |

| LTE BAND 12               |       |           |       |                         |       |           |       |
|---------------------------|-------|-----------|-------|-------------------------|-------|-----------|-------|
| Channel bandwidth: 1.4MHz |       |           |       | Channel bandwidth: 3MHz |       |           |       |
| Freq.<br>(MHz)            | CH    | PAPR (dB) |       | Freq.<br>(MHz)          | CH    | PAPR (dB) |       |
|                           |       | 16QAM     | Limit |                         |       | 16QAM     | Limit |
| 699.7                     | 23017 | 5.99      | 13    | 700.5                   | 23025 | 6.30      | 13    |
| 707.5                     | 23095 | 6.35      | 13    | 707.5                   | 23095 | 6.45      | 13    |
| 715.3                     | 23173 | 6.54      | 13    | 714.5                   | 23165 | 6.45      | 13    |

| LTE BAND 12             |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 701.5                   | 23035 | 6.24      | 13    | 704.0                    | 23060 | 6.21      | 13    |
| 707.5                   | 23095 | 6.35      | 13    | 707.5                    | 23095 | 6.43      | 13    |
| 713.5                   | 23155 | 6.32      | 13    | 711.0                    | 23130 | 6.23      | 13    |

| LTE BAND 13             |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 779.5                   | 23205 | 6.47      | 13    | 782.0                    | 23230 | 6.18      | 13    |
| 782.0                   | 23230 | 6.19      | 13    |                          |       |           |       |
| 784.5                   | 23255 | 6.16      | 13    |                          |       |           |       |

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| LTE BAND 17             |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 706.5                   | 23755 | 6.33      | 13    | 709                      | 23780 | 6.46      | 13    |
| 710                     | 23790 | 6.31      | 13    | 710                      | 23790 | 6.52      | 13    |
| 713.5                   | 23825 | 6.43      | 13    | 711                      | 23780 | 6.42      | 13    |

| LTE BAND 26               |       |           |       |                         |       |           |       |
|---------------------------|-------|-----------|-------|-------------------------|-------|-----------|-------|
| Channel bandwidth: 1.4MHz |       |           |       | Channel bandwidth: 3MHz |       |           |       |
| Freq.<br>(MHz)            | CH    | PAPR (dB) |       | Freq.<br>(MHz)          | CH    | PAPR (dB) |       |
|                           |       | 16QAM     | Limit |                         |       | 16QAM     | Limit |
| 814.7                     | 26697 | 5.09      | 13    | 815.5                   | 26705 | 5.65      | 13    |
| 831.5                     | 26865 | 6.53      | 13    | 831.5                   | 26865 | 6.59      | 13    |
| 848.3                     | 27033 | 6.08      | 13    | 847.5                   | 27025 | 6.14      | 13    |

| LTE BAND 26             |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 816.5                   | 26715 | 5.57      | 13    | 820.0                    | 26750 | 6.08      | 13    |
| 831.5                   | 26865 | 6.38      | 13    | 831.5                    | 26865 | 6.45      | 13    |
| 846.5                   | 27015 | 5.71      | 13    | 844.0                    | 26990 | 5.70      | 13    |

| LTE BAND 26              |       |           |       |  |  |  |  |
|--------------------------|-------|-----------|-------|--|--|--|--|
| Channel bandwidth: 15MHz |       |           |       |  |  |  |  |
| Freq.<br>(MHz)           | CH    | PAPR (dB) |       |  |  |  |  |
|                          |       | 16QAM     | Limit |  |  |  |  |
| 822.5                    | 26775 | 6.22      | 13    |  |  |  |  |
| 831.5                    | 26865 | 6.40      | 13    |  |  |  |  |
| 841.5                    | 26965 | 6.28      | 13    |  |  |  |  |

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| LTE BAND 26 for part 90S  |       |           |       |                         |       |           |       |
|---------------------------|-------|-----------|-------|-------------------------|-------|-----------|-------|
| Channel bandwidth: 1.4MHz |       |           |       | Channel bandwidth: 3MHz |       |           |       |
| Freq.<br>(MHz)            | CH    | PAPR (dB) |       | Freq.<br>(MHz)          | CH    | PAPR (dB) |       |
|                           |       | 16QAM     | Limit |                         |       | 16QAM     | Limit |
| 814.7                     | 26697 | 6.11      | 13    | 815.5                   | 26705 | 6.25      | 13    |
| 819.0                     | 26740 | 6.09      | 13    | 819                     | 26740 | 6.30      | 13    |
| 823.3                     | 26783 | 5.39      | 13    | 822.5                   | 26775 | 5.95      | 13    |

| LTE BAND 26 for part 90S |       |           |       |                          |       |           |       |
|--------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz  |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)           | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                          |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 816.5                    | 26715 | 6.21      | 13    | 819.0                    | 26740 | 6.19      | 13    |
| 819.0                    | 26740 | 6.20      | 13    |                          |       |           |       |
| 821.5                    | 26765 | 6.06      | 13    |                          |       |           |       |

| LTE BAND 30             |       |                 |       |                          |       |                 |       |
|-------------------------|-------|-----------------|-------|--------------------------|-------|-----------------|-------|
| Channel bandwidth: 5MHz |       |                 |       | Channel bandwidth: 10MHz |       |                 |       |
| Freq.<br>(MHz)          | CH    | Peak-to-Average |       | Freq.<br>(MHz)           | CH    | Peak-to-Average |       |
|                         |       | 6.65            | Limit |                          |       | 6.65            | Limit |
| 2307.5                  | 27685 | 6.21            | 13    | 2310.0                   | 27710 | 6.04            | 13    |
| 2310.0                  | 27710 | 6.24            | 13    |                          |       |                 |       |
| 2312.5                  | 27735 | 6.00            | 13    |                          |       |                 |       |

| LTE BAND 38             |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 2572.5                  | 37775 | 7.73      | 13    | 2575                     | 37800 | 8.08      | 13    |
| 2595.0                  | 38000 | 7.48      | 13    | 2595                     | 38000 | 8.52      | 13    |
| 2617.5                  | 38225 | 7.79      | 13    | 2615                     | 38200 | 8.34      | 13    |

| LTE BAND 38              |       |           |       |                          |       |           |       |
|--------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 15MHz |       |           |       | Channel bandwidth: 20MHz |       |           |       |
| Freq.<br>(MHz)           | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                          |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 2577.5                   | 37825 | 7.29      | 13    | 2580.0                   | 37850 | 10.47     | 13    |
| 2595.0                   | 38000 | 9.59      | 13    | 2595.0                   | 38000 | 11.68     | 13    |
| 2612.5                   | 38175 | 8.02      | 13    | 2610.0                   | 38150 | 9.73      | 13    |

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| LTE BAND 41             |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 2498.5                  | 39675 | 7.26      | 13    | 2501.0                   | 39700 | 8.27      | 13    |
| 2593.0                  | 40620 | 7.09      | 13    | 2593.0                   | 40620 | 8.08      | 13    |
| 2687.5                  | 41565 | 9.06      | 13    | 2685.0                   | 41540 | 6.97      | 13    |

| LTE BAND 41              |       |           |       |                          |       |           |       |
|--------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 15MHz |       |           |       | Channel bandwidth: 20MHz |       |           |       |
| Freq.<br>(MHz)           | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                          |       | 16QAM     | Limit |                          |       | 16QAM     | Limit |
| 2503.5                   | 39725 | 8.40      | 13    | 2506.0                   | 39750 | 8.06      | 13    |
| 2593.0                   | 40620 | 8.50      | 13    | 2593.0                   | 40620 | 8.03      | 13    |
| 2682.5                   | 41515 | 7.34      | 13    | 2680.0                   | 41490 | 9.91      | 13    |

| LTE BAND 66               |        |                 |       |                         |        |                 |       |
|---------------------------|--------|-----------------|-------|-------------------------|--------|-----------------|-------|
| Channel bandwidth: 1.4MHz |        |                 |       | Channel bandwidth: 3MHz |        |                 |       |
| Freq.<br>(MHz)            | CH     | Peak-to-Average |       | Freq.<br>(MHz)          | CH     | Peak-to-Average |       |
|                           |        | 16QAM           | Limit |                         |        | 16QAM           | Limit |
| 1710.7                    | 131979 | 6.85            | 13    | 1711.5                  | 131987 | 6.72            | 13    |
| 1745.0                    | 132322 | 6.63            | 13    | 1745.0                  | 132322 | 6.75            | 13    |
| 1779.3                    | 132665 | 6.61            | 13    | 1778.5                  | 132657 | 6.58            | 13    |

| LTE BAND 66             |        |                 |       |                          |        |                 |       |
|-------------------------|--------|-----------------|-------|--------------------------|--------|-----------------|-------|
| Channel bandwidth: 5MHz |        |                 |       | Channel bandwidth: 10MHz |        |                 |       |
| Freq.<br>(MHz)          | CH     | Peak-to-Average |       | Freq.<br>(MHz)           | CH     | Peak-to-Average |       |
|                         |        | 16QAM           | Limit |                          |        | 16QAM           | Limit |
| 1712.5                  | 131997 | 6.58            | 13    | 1715.0                   | 132022 | 6.48            | 13    |
| 1745.0                  | 132322 | 6.63            | 13    | 1745.0                   | 132322 | 6.60            | 13    |
| 1777.5                  | 132647 | 6.60            | 13    | 1775.0                   | 132622 | 6.41            | 13    |

| LTE BAND 66              |        |                 |       |                          |        |                 |       |
|--------------------------|--------|-----------------|-------|--------------------------|--------|-----------------|-------|
| Channel bandwidth: 15MHz |        |                 |       | Channel bandwidth: 20MHz |        |                 |       |
| Freq.<br>(MHz)           | CH     | Peak-to-Average |       | Freq.<br>(MHz)           | CH     | Peak-to-Average |       |
|                          |        | 16QAM           | Limit |                          |        | 16QAM           | Limit |
| 1717.5                   | 132047 | 6.29            | 13    | 1720.0                   | 132072 | 6.68            | 13    |
| 1745.0                   | 132322 | 6.27            | 13    | 1745.0                   | 132322 | 6.68            | 13    |
| 1772.5                   | 132597 | 6.22            | 13    | 1770.0                   | 132572 | 6.81            | 13    |

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## Measurement Results:

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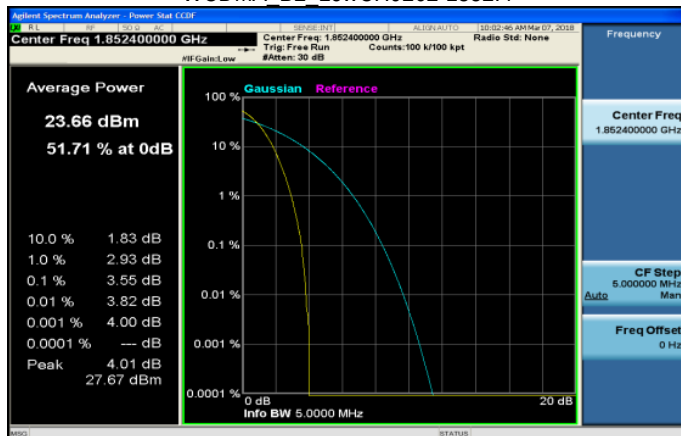
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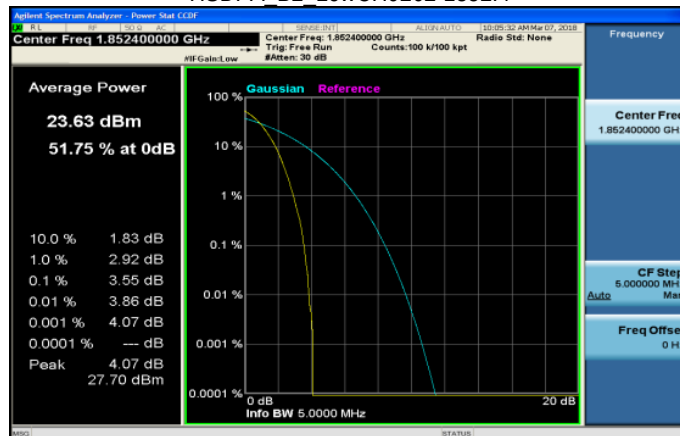
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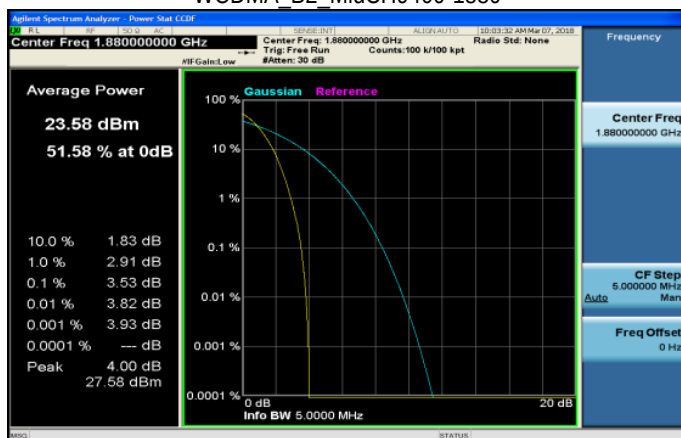
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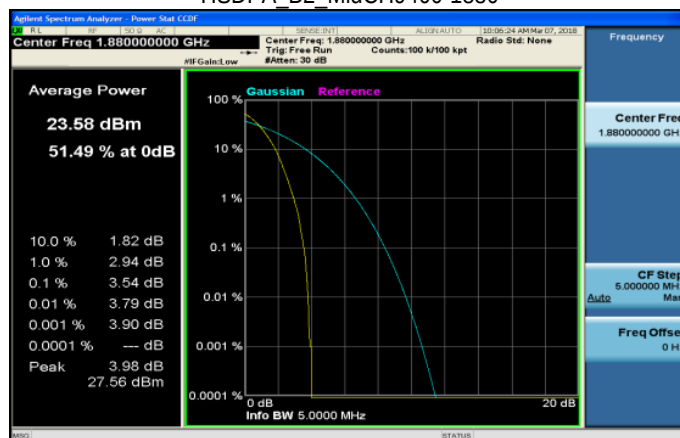
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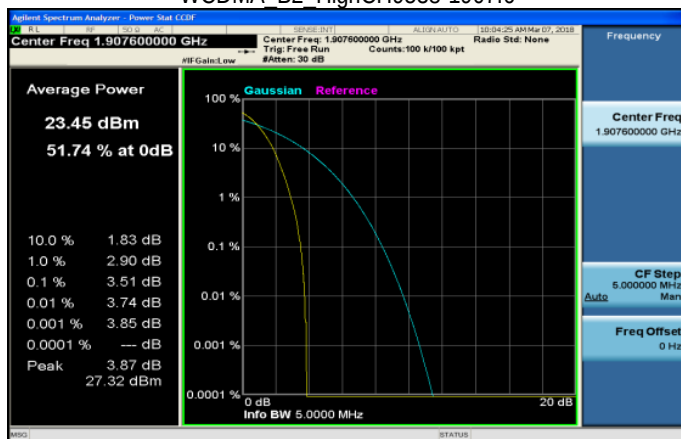
WCDMA B2 MidCH9400-1880



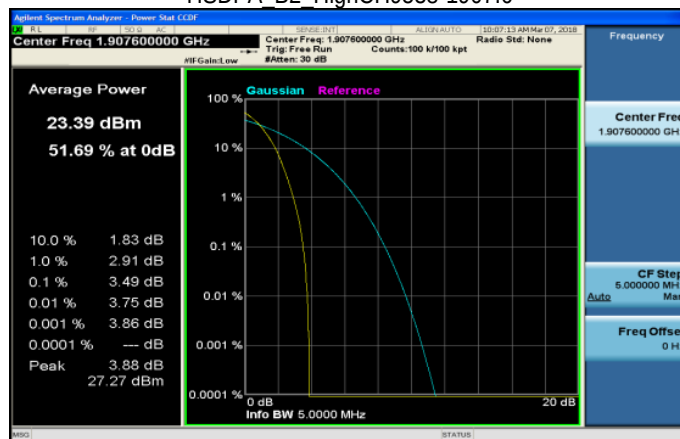
HSDPA B2 MidCH9400-1880



WCDMA B2 HighCH9538-1907.6



HSDPA B2 HighCH9538-1907.6



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