

Band12\_5MHz\_QPSK\_1\_0\_LowCH23035-701.5



Band12\_5MHz\_QPSK\_25\_0\_HighCH23155-713.5



Band12\_5MHz\_QPSK\_1\_24\_HighCH23155-713.5



Band12\_10MHz\_QPSK\_1\_0\_LowCH23060-704



Band12\_5MHz\_QPSK\_25\_0\_LowCH23035-701.5



Band12\_10MHz\_QPSK\_1\_49\_HighCH23130-711



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Band12\_10MHz\_QPSK\_50\_0\_LowCH23060-704



Band17\_5MHz\_QPSK\_1\_24\_HighCH23825-713.5



Band12\_10MHz\_QPSK\_50\_0\_HighCH23130-711



Band17\_5MHz\_QPSK\_25\_0\_LowCH23755-706.5



Band17\_5MHz\_QPSK\_1\_0\_LowCH23755-706.5



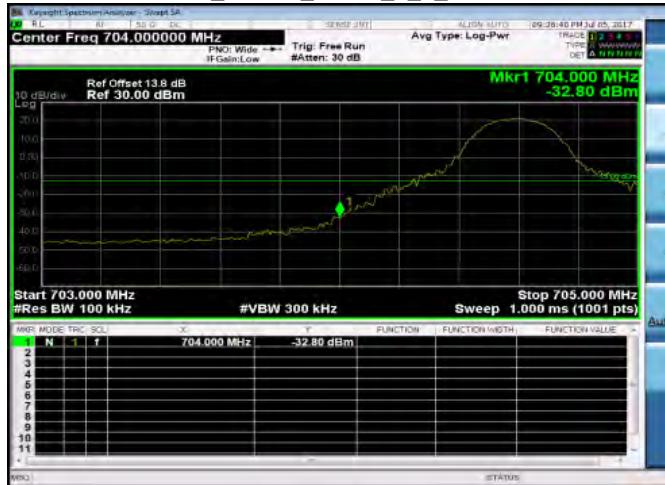
Band17\_5MHz\_QPSK\_25\_0\_HighCH23825-713.5



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Band17\_10MHz\_QPSK\_1\_0\_LowCH23780-709



Band17\_10MHz\_QPSK\_50\_0\_HighCH23800-711



Band17\_10MHz\_QPSK\_1\_49\_HighCH23800-711



Band17\_10MHz\_QPSK\_50\_0\_LowCH23780-709



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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(g)(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  $43 + 10 \log_{10}(p)$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

FCC §27.53 (m) (4) shall not be less than  $55 + 10 \log_{10}(p)$  (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

**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     | $43 + 10 \log_{10}(p)$ <sup>Note</sup> |
| 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     | $43 + 10 \log_{10}(p)$ <sup>Note</sup> |
| 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 5.2 for the permitted frequency ranges for various equipment types.

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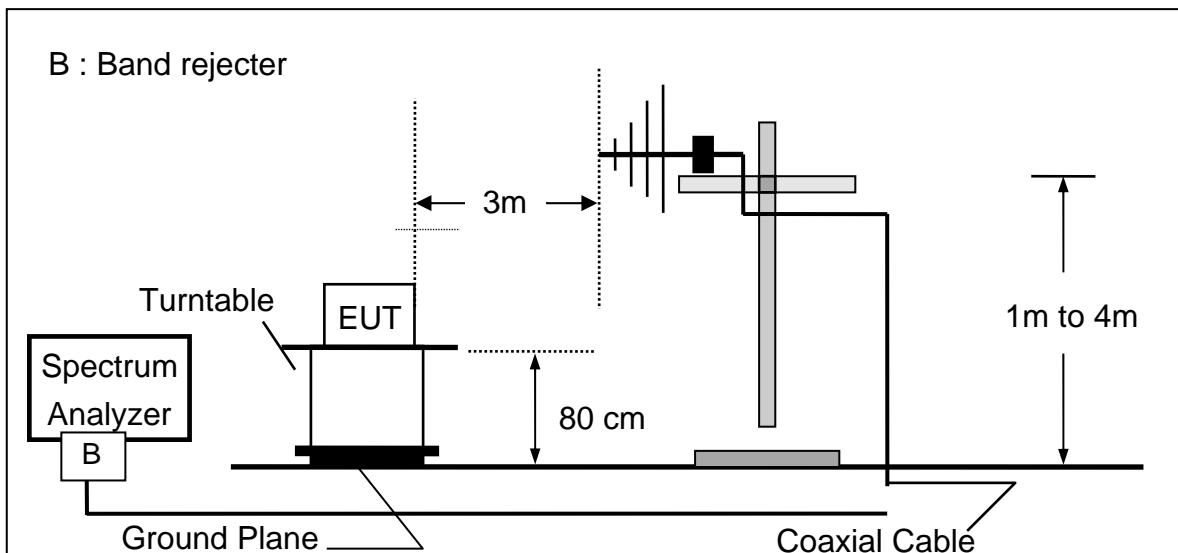
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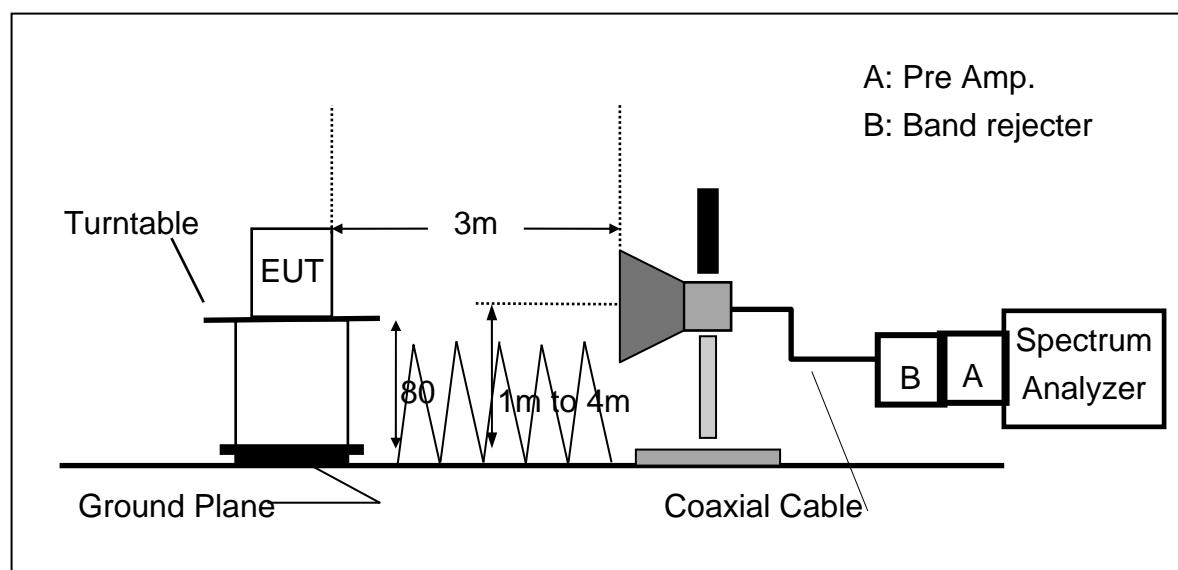
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## 10.2. EUT Setup

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.   |
| EMI Test Receiver                                | R&S                   | ESCI7        | 100760        | 05/11/2017 | 05/10/2018 |
| Spectrum Analyzer                                | Agilent               | E4446A       | MY51100003    | 04/25/2017 | 04/24/2018 |
| Loop Antenna                                     | ETS-Lindgren          | 6502         | 148045        | 09/20/2016 | 09/19/2017 |
| Bilog Antenna                                    | SCHWAZBECK            | VULB9168     | 378           | 12/19/2016 | 12/18/2017 |
| Horn Antenna                                     | Schwarzbeck           | BBHA9120D    | 1441          | 08/01/2016 | 07/31/2017 |
| Pre-Amplifier                                    | Agilent               | 8447D        | 2944A07676    | 01/05/2017 | 01/04/2018 |
| Pre-Amplifier                                    | EMC Instruments Corp. | EMC0126530   | 980038        | 01/05/2017 | 01/04/2018 |
| Turn Table                                       | HD                    | DT420        | N/A           | N.C.R      | N.C.R      |
| Antenna Tower                                    | ChamPro               | AM-BS-4500-B | 060776-ABS    | N.C.R      | N.C.R      |
| Controller                                       | ChamPro               | EM1000       | 60776         | N.C.R      | N.C.R      |
| Low Loss Cable                                   | Huber Suhner          | 966_RX       | 9             | 01/05/2017 | 01/04/2018 |
| 3m Site NSA                                      | SGS                   | 966 chamber  | N/A           | 07/01/2017 | 06/30/2018 |
| Low Loss Cable                                   | Huber Suhner          | 966 TX       | 1             | 01/05/2017 | 01/04/2018 |
| Horn Antenna                                     | Schwarzbeck           | BBHA9170     | 184           | 12/12/2016 | 12/11/2017 |
| Pre-Amplifier                                    | EMC Instruments Corp. | EMC184045    | 980135        | 01/05/2017 | 01/04/2018 |
| Radio Communication Analyzer                     | R&S                   | CMU200       | 102189        | 02/10/2017 | 02/09/2018 |
| Radio Communication Analyer                      | Anritsu               | MT8820C      | 6201465317    | 01/03/2017 | 01/02/2018 |

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

| ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber |             |              |               |            |            |
|--|-------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                                   | MFR         | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Horn Antenna                                     | Schwarzbeck | BBHA9120D    | 1441          | 08/04/2017 | 08/03/2018 |

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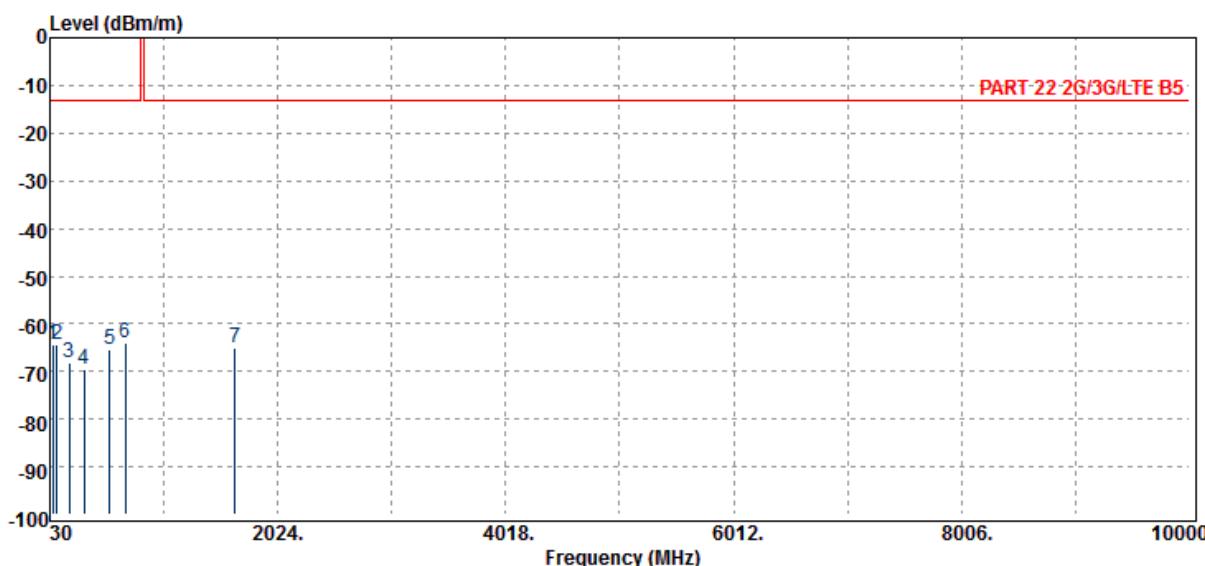
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## 10.5. Measurement Result:

### Radiated Spurious Emission Measurement Result: GSM 850 Mode (The Worst Case)

Operation Band :GPRS 850 Temp./Humi. :21 deg\_C / 62 RH  
 Fundamental Frequency :824.2 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane Measurement Pol. Antenna :VERTICAL



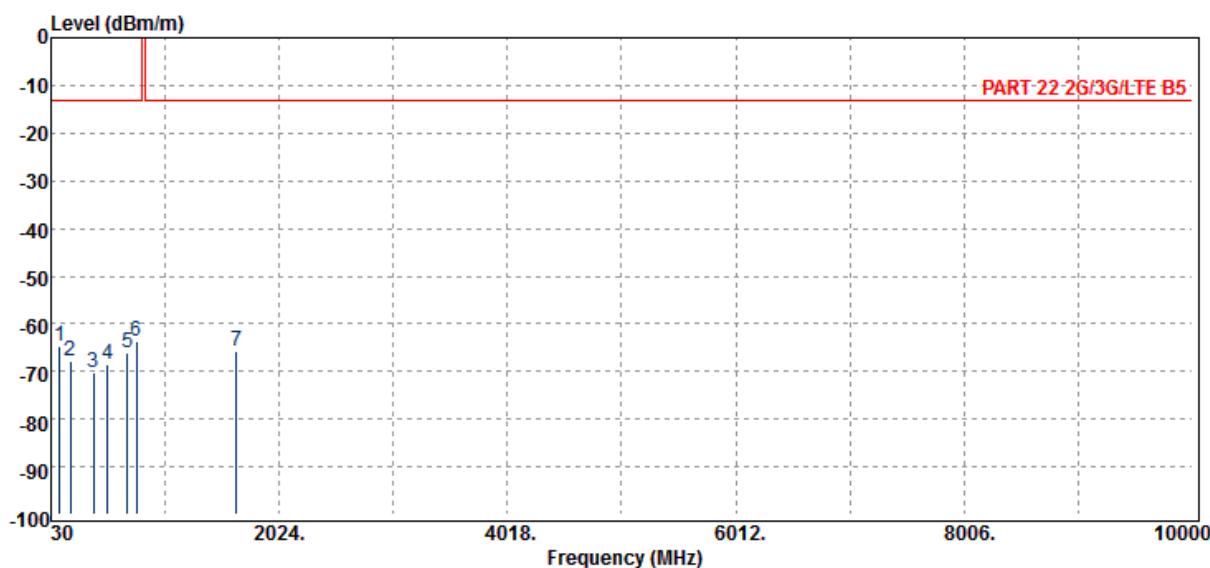
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG                  | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm |                        |                     |              |              |
| 54.25        | S               | -62.36      | -53.27              | -8.03                  | -1.06               | -13          | -49.36       |
| 91.11        | S               | -62.17      | -62.54              | 1.58                   | -1.21               | -13          | -49.17       |
| 202.66       | S               | -65.85      | -69.57              | 5.37                   | -1.65               | -13          | -52.85       |
| 332.64       | S               | -67.35      | -71.37              | 5.93                   | -1.91               | -13          | -54.35       |
| 553.80       | S               | -63.25      | -66.22              | 5.71                   | -2.74               | -13          | -50.25       |
| 691.54       | S               | -62.01      | -64.42              | 5.24                   | -2.83               | -13          | -49.01       |
| 1648.40      | H               | -62.95      | -67.99              | 9.26                   | -4.22               | -13          | -49.95       |

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Operation Band :GPRS 850  
 Fundamental Frequency :824.2 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



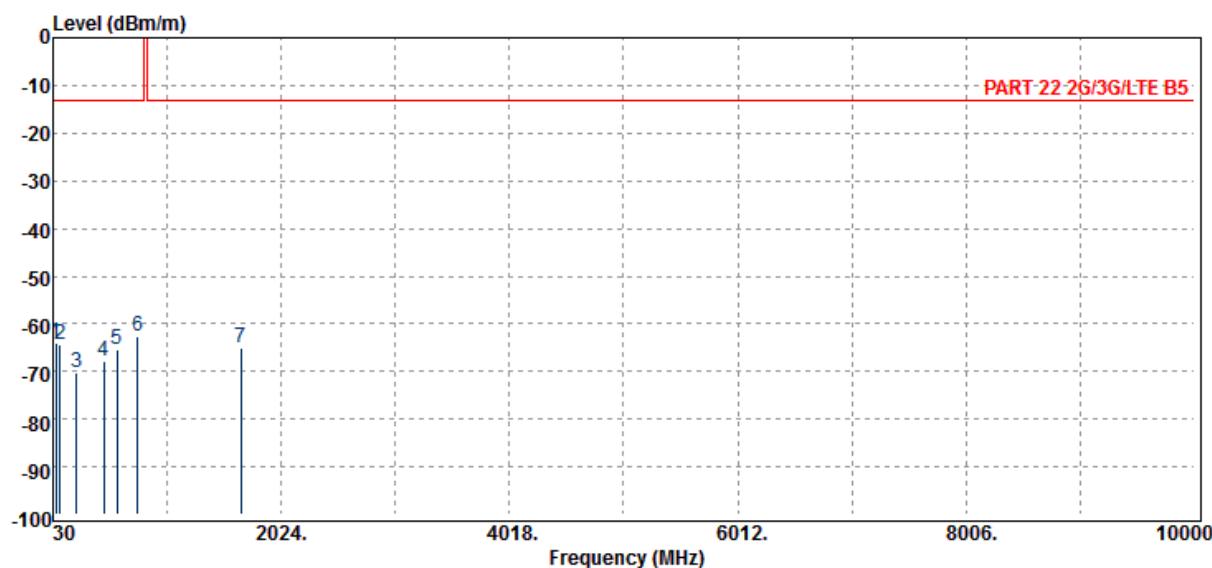
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 104.69       | S               | -62.62      | -61.46                    | -61.46                    | 0.11                   | -1.27               | -13          | -49.62       |
| 199.75       | S               | -65.69      | -69.30                    | -69.30                    | 5.24                   | -1.63               | -13          | -52.69       |
| 403.45       | S               | -68.10      | -71.66                    | -71.66                    | 5.96                   | -2.40               | -13          | -55.10       |
| 527.61       | S               | -66.46      | -69.85                    | -69.85                    | 5.86                   | -2.47               | -13          | -53.46       |
| 694.45       | S               | -63.85      | -66.21                    | -66.21                    | 5.24                   | -2.88               | -13          | -50.85       |
| 773.99       | S               | -61.36      | -63.84                    | -63.84                    | 5.41                   | -2.93               | -13          | -48.36       |
| 1648.40      | H               | -63.49      | -68.53                    | -68.53                    | 9.26                   | -4.22               | -13          | -50.49       |

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Operation Band :GPRS 850  
 Fundamental Frequency :836.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



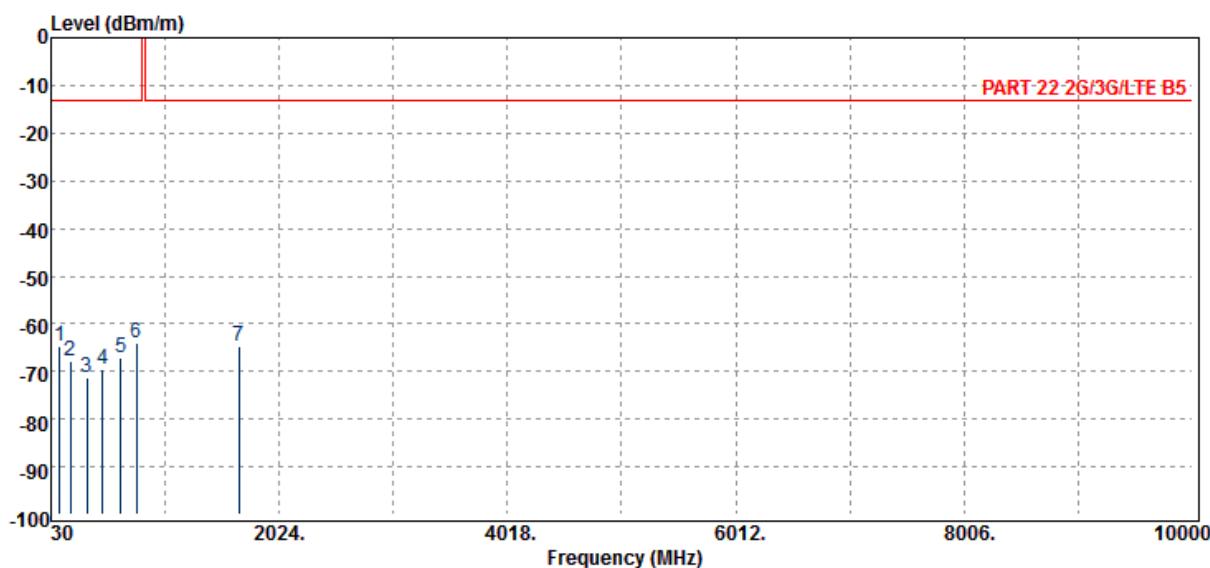
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 54.25        | S               | -61.71      | -52.62                    | -8.03                     | -1.06                  | -13                 | -48.71       |              |
| 92.08        | S               | -62.30      | -62.54                    | 1.46                      | -1.22                  | -13                 | -49.30       |              |
| 238.55       | S               | -68.13      | -71.80                    | 5.41                      | -1.74                  | -13                 | -55.13       |              |
| 473.29       | S               | -65.78      | -69.45                    | 5.90                      | -2.23                  | -13                 | -52.78       |              |
| 587.75       | S               | -63.37      | -66.05                    | 5.47                      | -2.79                  | -13                 | -50.37       |              |
| 772.05       | S               | -60.45      | -62.91                    | 5.40                      | -2.94                  | -13                 | -47.45       |              |
| 1673.20      | H               | -62.91      | -67.97                    | 9.35                      | -4.29                  | -13                 | -49.91       |              |

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Operation Band :GPRS 850  
 Fundamental Frequency :836.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



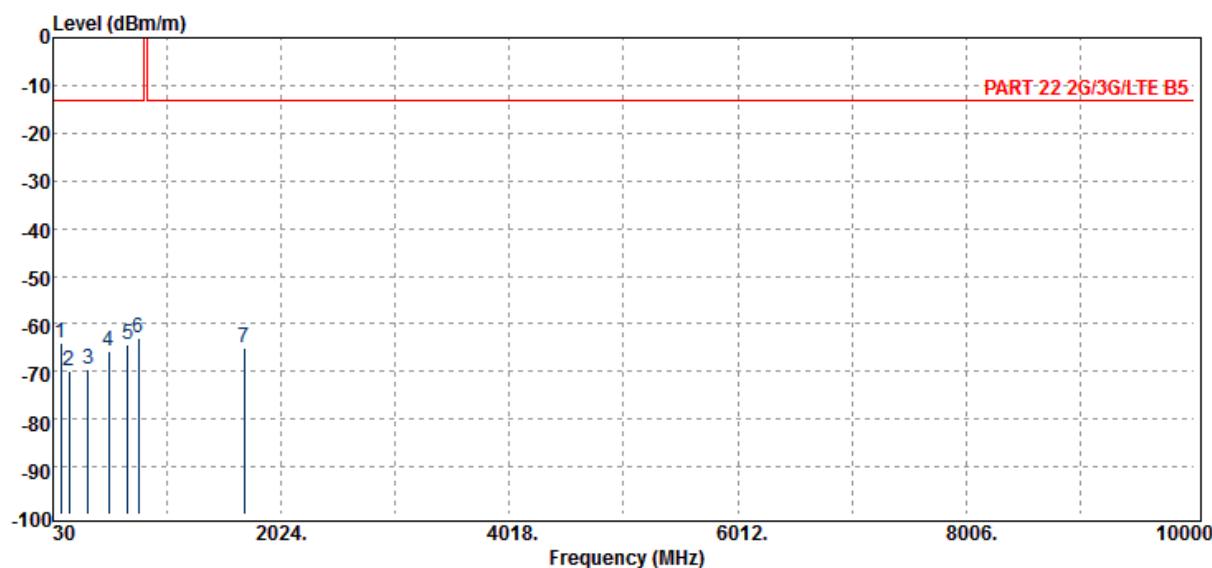
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 104.69       | S               | -62.69      | -61.53                    | -61.53                    | 0.11                   | -1.27               | -13          | -49.69       |
| 202.66       | S               | -65.68      | -69.40                    | -69.40                    | 5.37                   | -1.65               | -13          | -52.68       |
| 343.31       | S               | -69.10      | -73.09                    | -73.09                    | 5.98                   | -1.99               | -13          | -56.10       |
| 482.99       | S               | -67.43      | -71.12                    | -71.12                    | 5.94                   | -2.25               | -13          | -54.43       |
| 641.10       | S               | -65.05      | -67.93                    | -67.93                    | 5.31                   | -2.43               | -13          | -52.05       |
| 773.99       | S               | -61.86      | -64.34                    | -64.34                    | 5.41                   | -2.93               | -13          | -48.86       |
| 1673.20      | H               | -62.62      | -67.68                    | -67.68                    | 9.35                   | -4.29               | -13          | -49.62       |

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Operation Band :GPRS 850  
 Fundamental Frequency :848.8 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



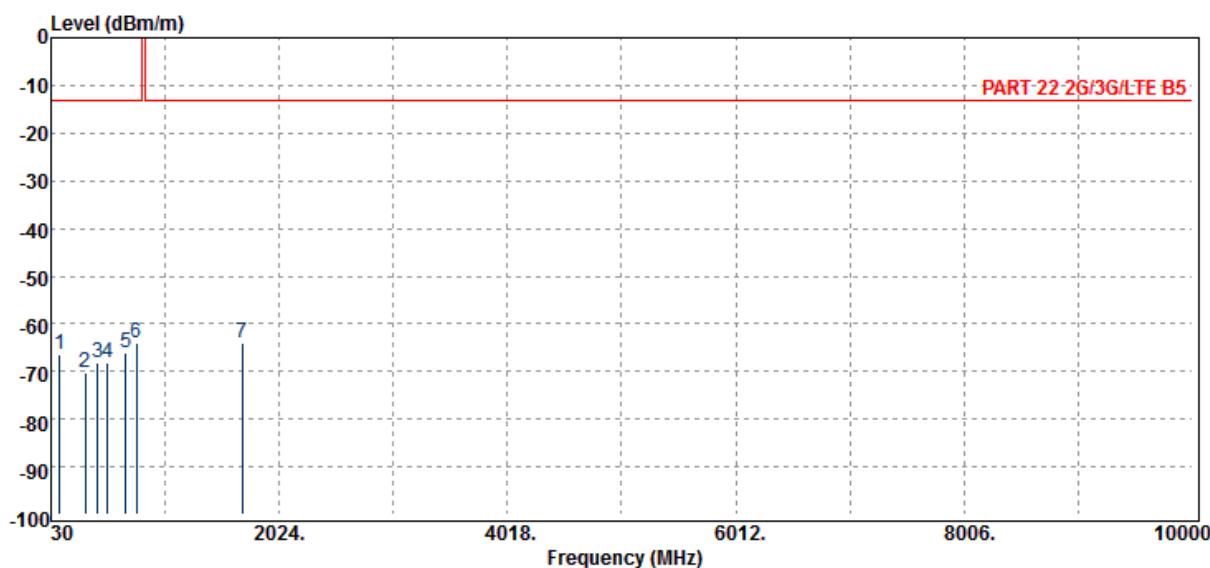
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 94.99        | S               | -62.02      | -61.90                    | -61.90                    | 1.11                   | -1.23               | -13          | -49.02       |
| 172.59       | S               | -67.75      | -67.93                    | -67.93                    | 1.71                   | -1.53               | -13          | -54.75       |
| 333.61       | S               | -67.45      | -71.47                    | -71.47                    | 5.94                   | -1.92               | -13          | -54.45       |
| 516.94       | S               | -63.65      | -67.19                    | -67.19                    | 5.91                   | -2.37               | -13          | -50.65       |
| 683.78       | S               | -62.15      | -64.71                    | -64.71                    | 5.25                   | -2.69               | -13          | -49.15       |
| 775.93       | S               | -60.93      | -63.43                    | -63.43                    | 5.42                   | -2.92               | -13          | -47.93       |
| 1697.60      | H               | -62.81      | -67.93                    | -67.93                    | 9.43                   | -4.31               | -13          | -49.81       |

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Operation Band :GPRS 850  
 Fundamental Frequency :848.8 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 103.72       | S               | -64.39      | -63.33                    | -63.33                    | 0.20                   | -1.26               | -13          | -51.39       |
| 327.79       | S               | -68.13      | -72.12                    | -72.12                    | 5.91                   | -1.92               | -13          | -55.13       |
| 435.46       | S               | -66.06      | -69.67                    | -69.67                    | 5.84                   | -2.23               | -13          | -53.06       |
| 526.64       | S               | -66.03      | -69.43                    | -69.43                    | 5.86                   | -2.46               | -13          | -53.03       |
| 681.84       | S               | -64.04      | -66.64                    | -66.64                    | 5.25                   | -2.65               | -13          | -51.04       |
| 773.99       | S               | -61.71      | -64.19                    | -64.19                    | 5.41                   | -2.93               | -13          | -48.71       |
| 1697.60      | H               | -62.02      | -67.14                    | -67.14                    | 9.43                   | -4.31               | -13          | -49.02       |

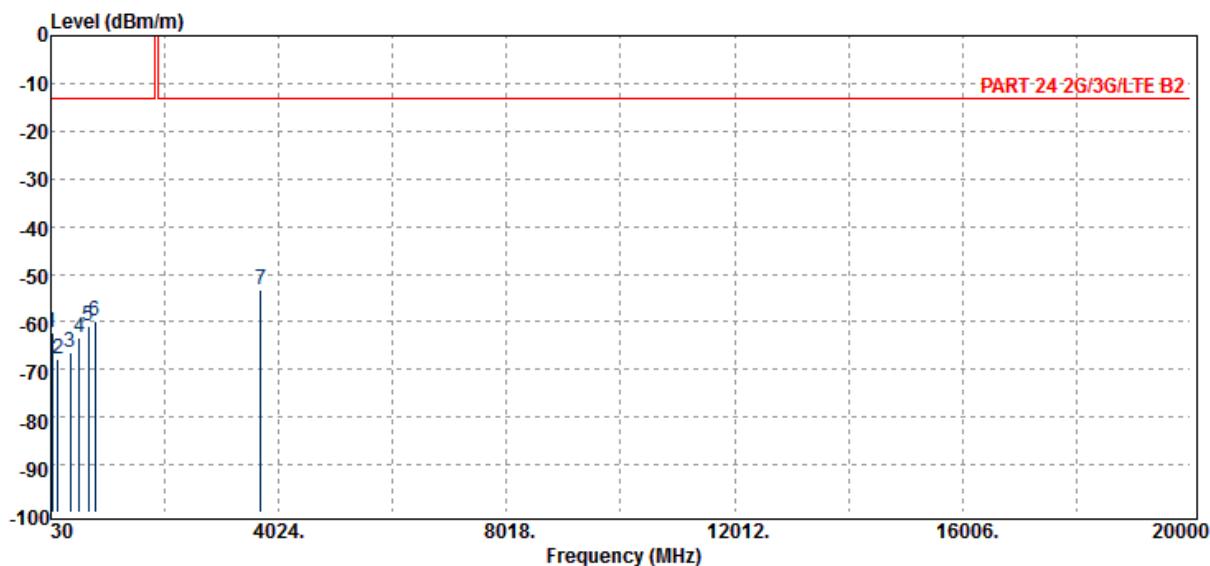
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### Radiated Spurious Emission Measurement Result: GPRS 1900 Mode (The Worst Case)

Operation Band :GPRS 1900 Temp./Humi. :21 deg\_C / 62 RH  
 Fundamental Frequency :1850.2 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane Measurement Pol. Antenna :VERTICAL



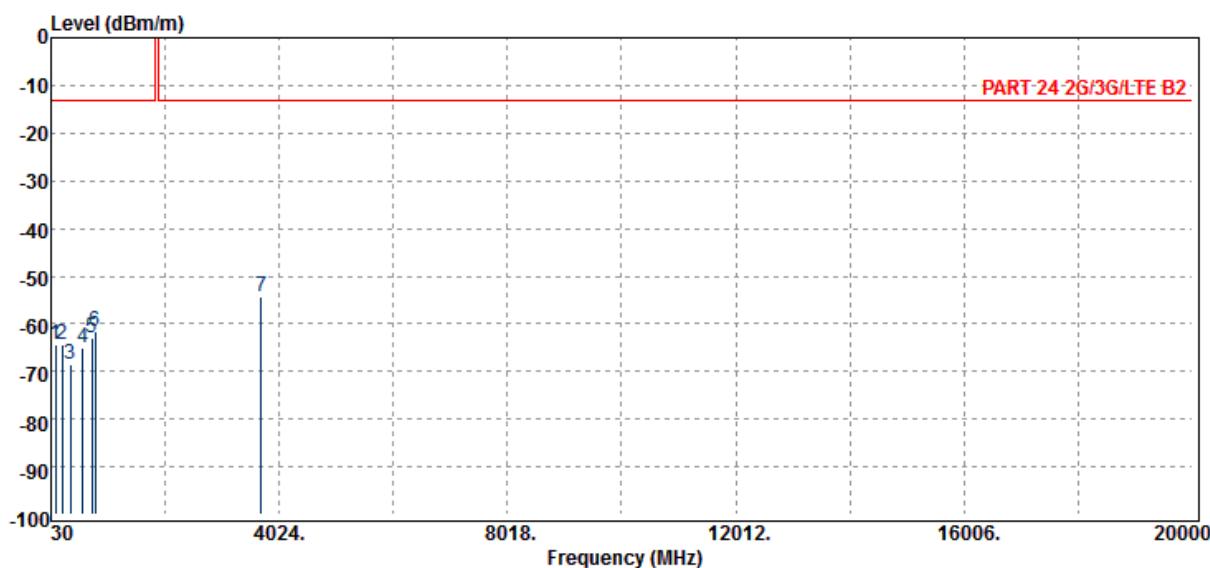
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 57.16        | S               | -62.42      | -54.05                    | -54.05                    | -7.29                  | -1.07               | -13.00       | -49.42       |
| 159.01       | S               | -67.98      | -66.98                    | -66.98                    | 0.47                   | -1.47               | -13.00       | -54.98       |
| 364.65       | S               | -66.45      | -70.29                    | -70.29                    | 6.00                   | -2.16               | -13.00       | -53.45       |
| 522.76       | S               | -63.16      | -66.62                    | -66.62                    | 5.88                   | -2.42               | -13.00       | -50.16       |
| 686.69       | S               | -61.03      | -63.54                    | -63.54                    | 5.25                   | -2.74               | -13.00       | -48.03       |
| 807.94       | S               | -59.78      | -62.36                    | -62.36                    | 5.48                   | -2.89               | -13.00       | -46.78       |
| 3700.40      | H               | -53.29      | -59.15                    | -59.15                    | 12.44                  | -6.58               | -13.00       | -40.29       |

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Operation Band :GPRS 1900  
 Fundamental Frequency :1850.2 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



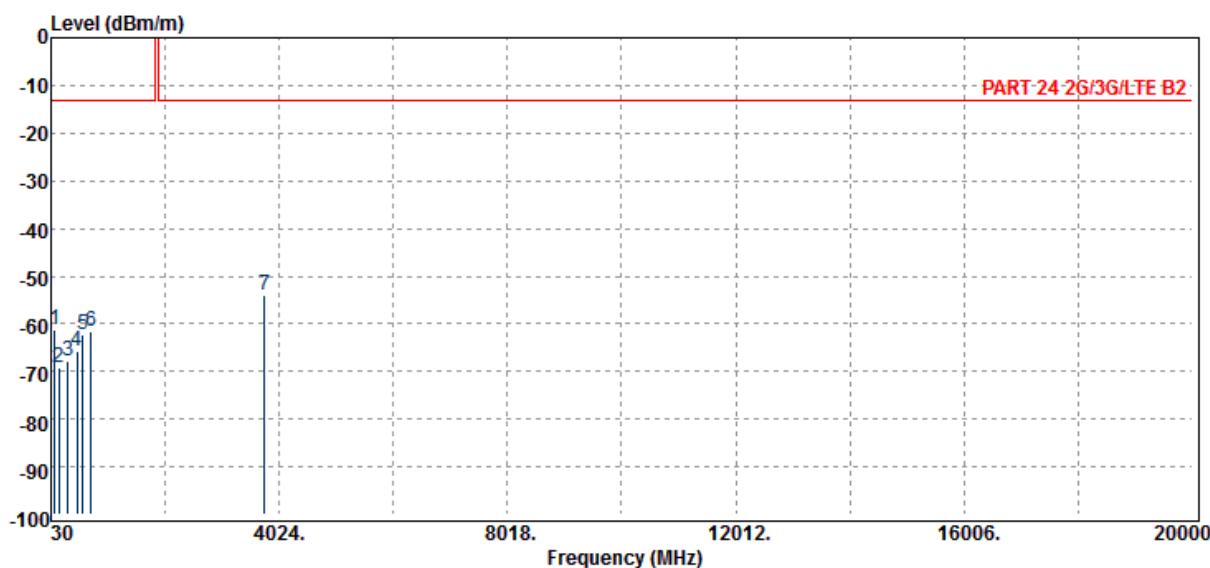
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 103.72       | S               | -64.42      | -63.35                    | -63.35                    | 0.20                   | -1.26               | -13.00       | -51.42       |
| 221.09       | S               | -64.24      | -67.98                    | -67.98                    | 5.45                   | -1.71               | -13.00       | -51.24       |
| 364.65       | S               | -68.36      | -72.20                    | -72.20                    | 6.00                   | -2.16               | -13.00       | -55.36       |
| 587.75       | S               | -65.18      | -67.86                    | -67.86                    | 5.47                   | -2.79               | -13.00       | -52.18       |
| 744.89       | S               | -62.92      | -65.13                    | -65.13                    | 5.32                   | -3.11               | -13.00       | -49.92       |
| 807.94       | S               | -61.71      | -64.29                    | -64.29                    | 5.48                   | -2.89               | -13.00       | -48.71       |
| 3700.40      | H               | -54.20      | -60.06                    | -60.06                    | 12.44                  | -6.58               | -13.00       | -41.20       |

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Operation Band :GPRS 1900  
 Fundamental Frequency :1880 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



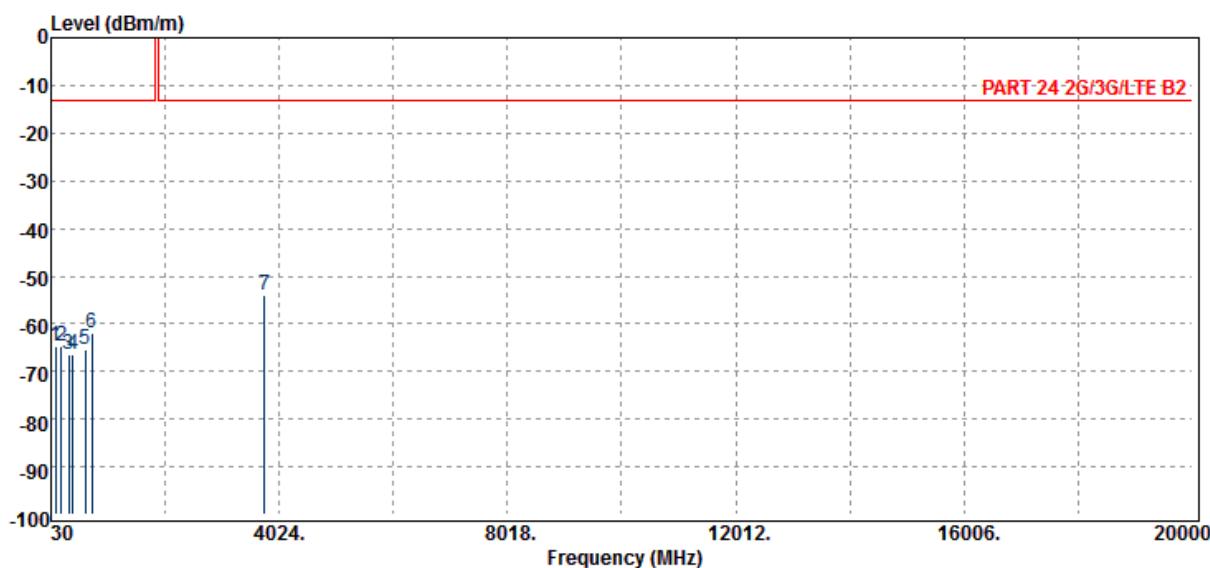
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |        | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|--------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output                    | Level  |                        |                     |              |              |
| 94.99        | S               | -61.40      | -61.28                    | -61.28 | 1.11                   | -1.23               | -13.00       | -48.40       |
| 173.56       | S               | -69.10      | -69.45                    | -69.45 | 1.89                   | -1.53               | -13.00       | -56.10       |
| 332.64       | S               | -67.94      | -71.96                    | -71.96 | 5.93                   | -1.91               | -13.00       | -54.94       |
| 482.99       | S               | -65.91      | -69.60                    | -69.60 | 5.94                   | -2.25               | -13.00       | -52.91       |
| 582.90       | S               | -62.38      | -65.10                    | -65.10 | 5.51                   | -2.79               | -13.00       | -49.38       |
| 726.46       | S               | -61.57      | -63.76                    | -63.76 | 5.29                   | -3.10               | -13.00       | -48.57       |
| 3760.00      | H               | -54.11      | -59.96                    | -59.96 | 12.45                  | -6.60               | -13.00       | -41.11       |

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Operation Band :GPRS 1900  
 Fundamental Frequency :1880 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



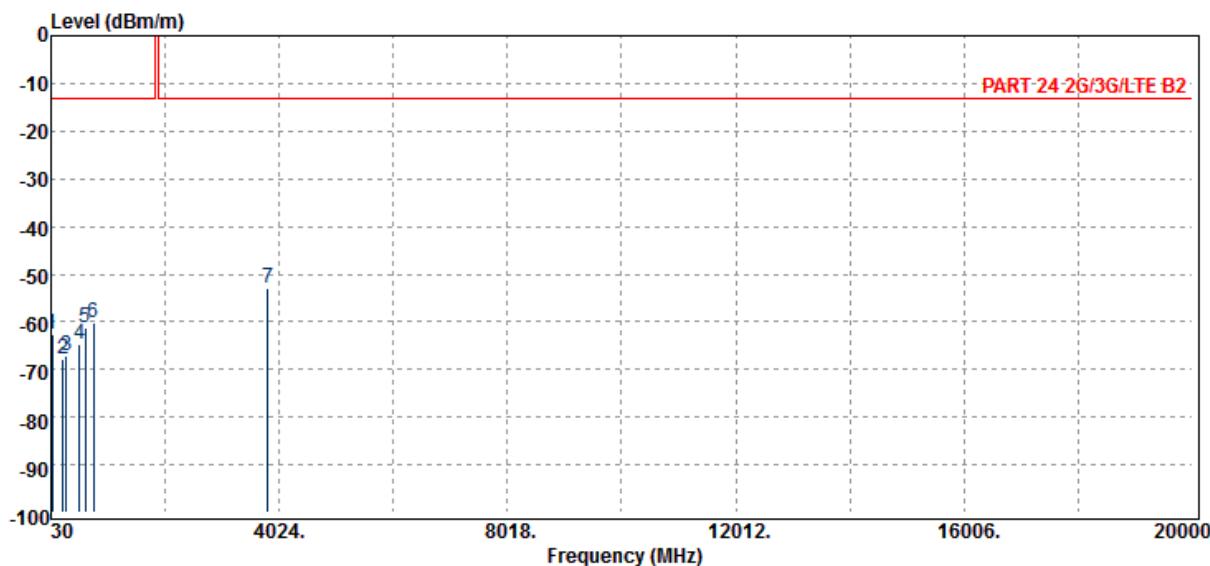
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |       | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|-------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output                    | Level |                        |                     |              |              |
| 104.69       | S               | -64.63      | -63.47                    |       | 0.11                   | -1.27               | -13.00       | -51.63       |
| 216.24       | S               | -64.61      | -68.47                    |       | 5.55                   | -1.69               | -13.00       | -51.61       |
| 337.49       | S               | -66.49      | -70.50                    |       | 5.95                   | -1.95               | -13.00       | -53.49       |
| 410.24       | S               | -66.58      | -70.12                    |       | 5.93                   | -2.40               | -13.00       | -53.58       |
| 626.55       | S               | -65.32      | -68.16                    |       | 5.34                   | -2.49               | -13.00       | -52.32       |
| 745.86       | S               | -61.81      | -64.03                    |       | 5.32                   | -3.10               | -13.00       | -48.81       |
| 3760.00      | H               | -53.82      | -59.68                    |       | 12.45                  | -6.60               | -13.00       | -40.82       |

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Operation Band :GPRS 1900  
 Fundamental Frequency :1909.8 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



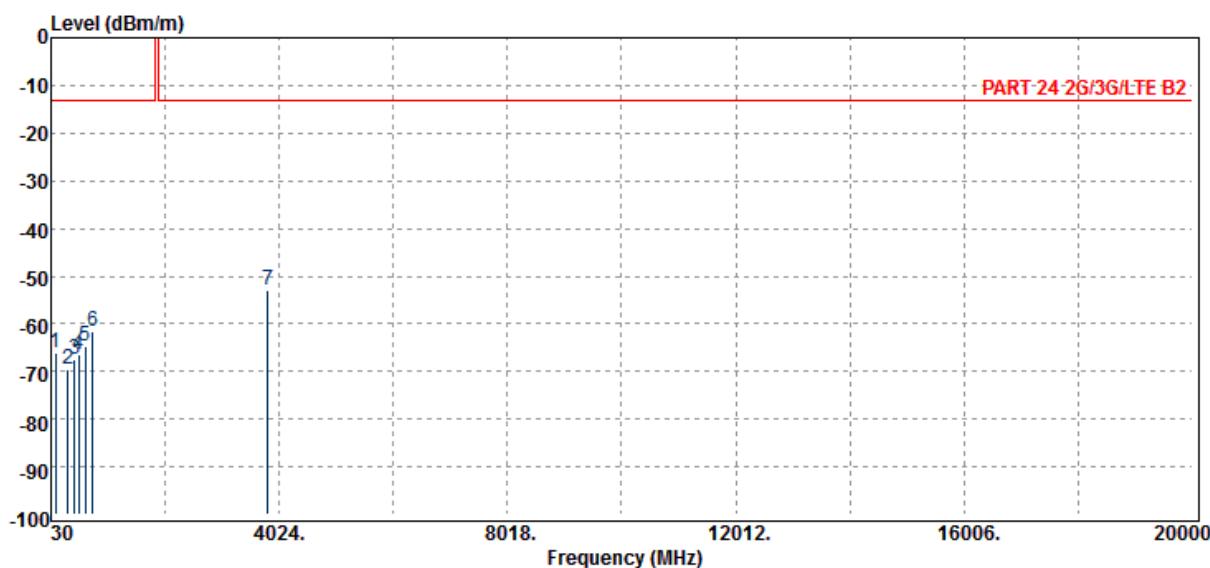
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 55.22        | S               | -62.50      | -53.66                    | -53.66                    | -7.78                  | -1.06               | -13.00       | -49.50       |
| 239.52       | S               | -67.72      | -71.40                    | -71.40                    | 5.43                   | -1.74               | -13.00       | -54.72       |
| 294.81       | S               | -67.13      | -70.86                    | -70.86                    | 5.67                   | -1.94               | -13.00       | -54.13       |
| 524.70       | S               | -64.56      | -67.99                    | -67.99                    | 5.87                   | -2.44               | -13.00       | -51.56       |
| 623.64       | S               | -61.27      | -64.10                    | -64.10                    | 5.34                   | -2.52               | -13.00       | -48.27       |
| 772.05       | S               | -60.29      | -62.75                    | -62.75                    | 5.40                   | -2.94               | -13.00       | -47.29       |
| 3819.60      | H               | -53.09      | -58.91                    | -58.91                    | 12.47                  | -6.65               | -13.00       | -40.09       |

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Operation Band :GPRS 1900  
 Fundamental Frequency :1909.8 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 104.69       | S               | -66.10      | -64.94                    | -64.94                    | 0.11                   | -1.27               | -13.00       | -53.10       |
| 325.85       | S               | -69.57      | -73.55                    | -73.55                    | 5.90                   | -1.92               | -13.00       | -56.57       |
| 447.10       | S               | -67.37      | -70.98                    | -70.98                    | 5.80                   | -2.19               | -13.00       | -54.37       |
| 515.00       | S               | -66.44      | -70.00                    | -70.00                    | 5.92                   | -2.36               | -13.00       | -53.44       |
| 631.40       | S               | -64.62      | -67.48                    | -67.48                    | 5.33                   | -2.46               | -13.00       | -51.62       |
| 762.35       | S               | -61.76      | -64.13                    | -64.13                    | 5.37                   | -3.00               | -13.00       | -48.76       |
| 3819.60      | H               | -53.01      | -58.83                    | -58.83                    | 12.47                  | -6.65               | -13.00       | -40.01       |

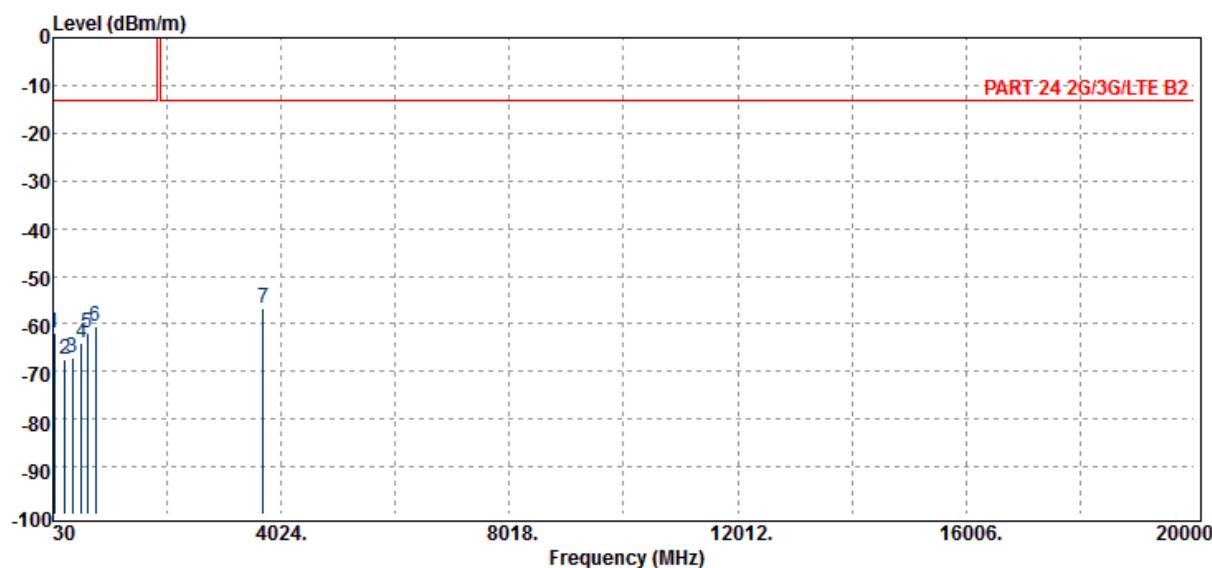
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**Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode (The Worst Case)**

Operation Band :HSDPA B2 Temp./Humi. :21 deg\_C / 62 RH  
 Fundamental Frequency :1852.4 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane Measurement Pol. Antenna :VERTICAL



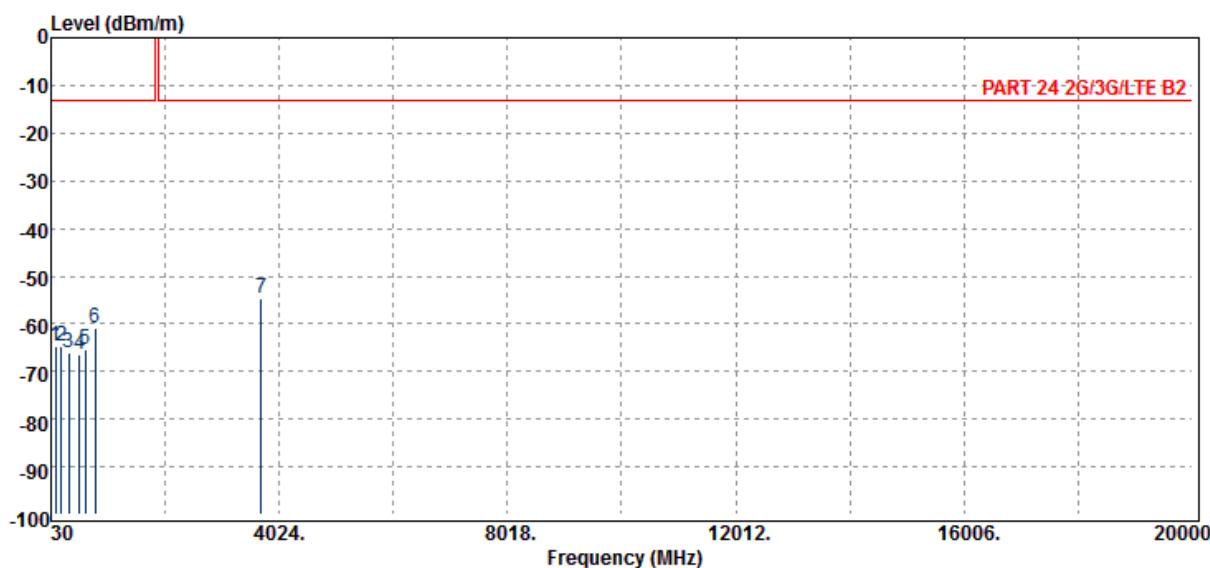
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 57.16        | S               | -61.79      | -53.42                    | -7.29                     | -1.07                  | -13.00              | -48.79       |              |
| 236.61       | S               | -67.50      | -71.14                    | 5.38                      | -1.73                  | -13.00              | -54.50       |              |
| 367.56       | S               | -67.12      | -70.94                    | 6.00                      | -2.18                  | -13.00              | -54.12       |              |
| 531.49       | S               | -64.09      | -67.41                    | 5.84                      | -2.51                  | -13.00              | -51.09       |              |
| 623.64       | S               | -62.08      | -64.90                    | 5.34                      | -2.52                  | -13.00              | -49.08       |              |
| 774.96       | S               | -60.45      | -62.94                    | 5.41                      | -2.92                  | -13.00              | -47.45       |              |
| 3704.80      | H               | -56.70      | -62.56                    | 12.44                     | -6.58                  | -13.00              | -43.70       |              |

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Operation Band :HSDPA B2  
 Fundamental Frequency :1852.4 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



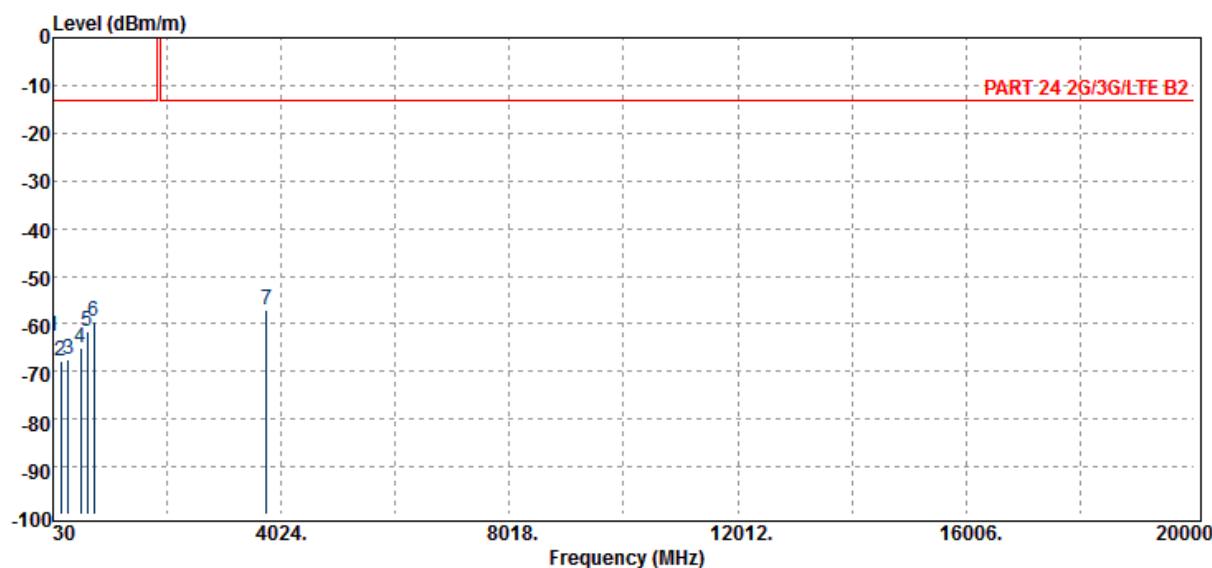
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |       | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|-------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output                    | Level |                        |                     |              |              |
| 104.69       | S               | -64.54      | -63.38                    | 0.11  | -1.27                  | -13.00              | -51.54       |              |
| 212.36       | S               | -64.68      | -68.63                    | 5.63  | -1.68                  | -13.00              | -51.68       |              |
| 337.49       | S               | -66.04      | -70.05                    | 5.95  | -1.95                  | -13.00              | -53.04       |              |
| 531.49       | S               | -66.34      | -69.67                    | 5.84  | -2.51                  | -13.00              | -53.34       |              |
| 625.58       | S               | -65.27      | -68.11                    | 5.34  | -2.50                  | -13.00              | -52.27       |              |
| 808.91       | S               | -60.83      | -63.41                    | 5.48  | -2.89                  | -13.00              | -47.83       |              |
| 3704.80      | H               | -54.69      | -60.55                    | 12.44 | -6.58                  | -13.00              | -41.69       |              |

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Operation Band :HSDPA B2  
 Fundamental Frequency :1880 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



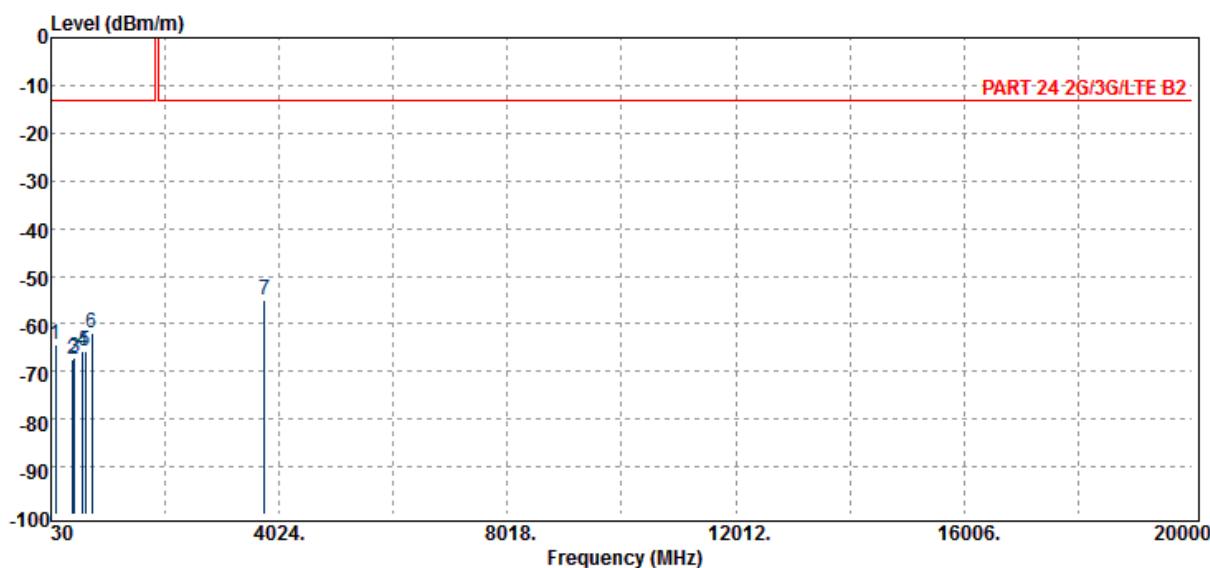
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                        | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | Antenna<br>Gain<br>dBi |                        |                     |              |              |
| 41.64        | S               | -62.58      | -50.89                    | -10.68                 | -1.00                  | -13.00              | -49.58       |              |
| 165.80       | S               | -67.73      | -67.17                    | 0.94                   | -1.50                  | -13.00              | -54.73       |              |
| 294.81       | S               | -67.57      | -71.30                    | 5.67                   | -1.94                  | -13.00              | -54.57       |              |
| 515.00       | S               | -64.99      | -68.55                    | 5.92                   | -2.36                  | -13.00              | -51.99       |              |
| 629.46       | S               | -61.69      | -64.55                    | 5.33                   | -2.47                  | -13.00              | -48.69       |              |
| 750.71       | S               | -59.50      | -61.77                    | 5.33                   | -3.07                  | -13.00              | -46.50       |              |
| 3760.00      | H               | -57.12      | -62.97                    | 12.45                  | -6.60                  | -13.00              | -44.12       |              |

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Operation Band :HSDPA B2  
 Fundamental Frequency :1880 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



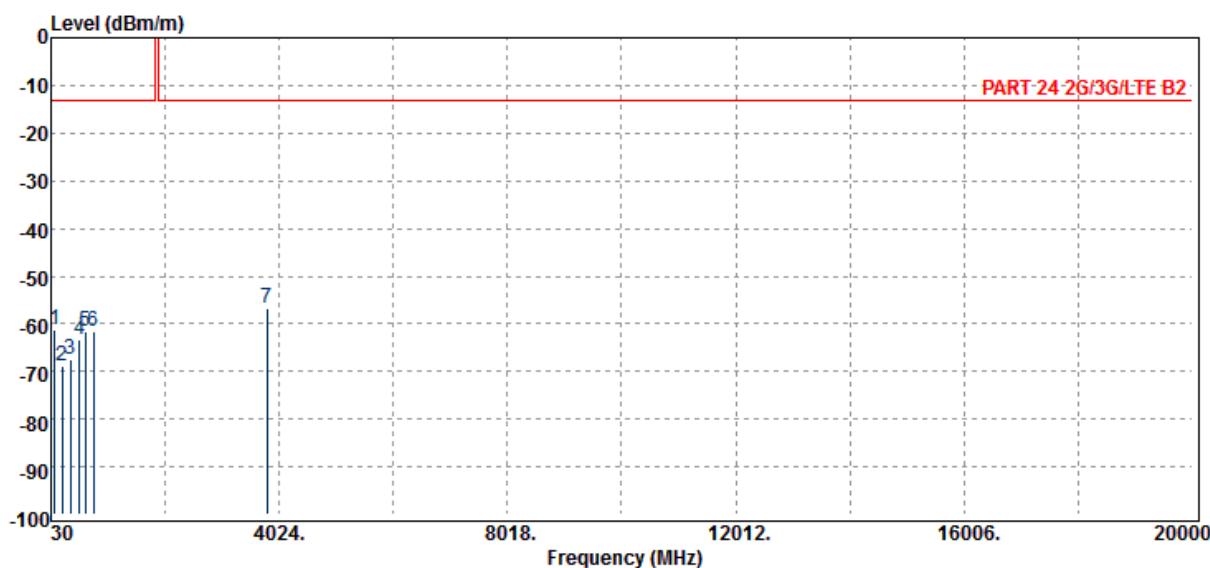
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |       | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|-------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output                    | Level |                        |                     |              |              |
| 103.72       | S               | -64.51      | -63.45                    | 0.20  | -1.26                  | -13.00              | -51.51       |              |
| 413.15       | S               | -67.50      | -71.04                    | 5.92  | -2.38                  | -13.00              | -54.50       |              |
| 435.46       | S               | -67.15      | -70.76                    | 5.84  | -2.23                  | -13.00              | -54.15       |              |
| 585.81       | S               | -65.76      | -68.45                    | 5.49  | -2.79                  | -13.00              | -52.76       |              |
| 629.46       | S               | -65.63      | -68.49                    | 5.33  | -2.47                  | -13.00              | -52.63       |              |
| 741.01       | S               | -62.08      | -64.26                    | 5.31  | -3.13                  | -13.00              | -49.08       |              |
| 3760.00      | H               | -54.96      | -60.82                    | 12.45 | -6.60                  | -13.00              | -41.96       |              |

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Operation Band :HSDPA B2  
 Fundamental Frequency :1907.6 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



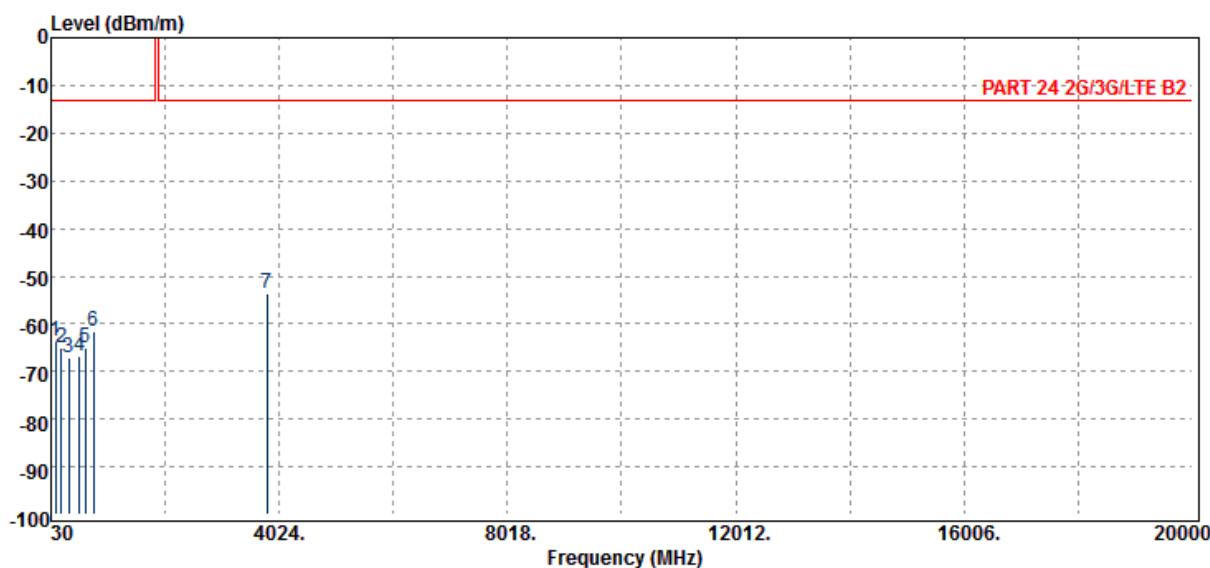
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 93.05        | S               | -61.25      | -61.37                    | -61.37                    | 1.34                   | -1.22               | -13.00       | -48.25       |
| 226.91       | S               | -68.87      | -72.48                    | -72.48                    | 5.33                   | -1.72               | -13.00       | -55.87       |
| 376.29       | S               | -67.54      | -71.29                    | -71.29                    | 5.99                   | -2.24               | -13.00       | -54.54       |
| 534.40       | S               | -63.22      | -66.50                    | -66.50                    | 5.82                   | -2.54               | -13.00       | -50.22       |
| 634.31       | S               | -61.71      | -64.57                    | -64.57                    | 5.32                   | -2.45               | -13.00       | -48.71       |
| 767.20       | S               | -61.67      | -64.08                    | -64.08                    | 5.39                   | -2.97               | -13.00       | -48.67       |
| 3815.20      | H               | -56.81      | -62.64                    | -62.64                    | 12.46                  | -6.63               | -13.00       | -43.81       |

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Operation Band :HSDPA B2  
 Fundamental Frequency :1907.6 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 104.69       | S               | -63.80      | -62.65                    | 0.11                      | -1.27                  | -13.00              | -50.80       |              |
| 214.30       | S               | -64.90      | -68.80                    | 5.59                      | -1.68                  | -13.00              | -51.90       |              |
| 340.40       | S               | -67.30      | -71.30                    | 5.97                      | -1.97                  | -13.00              | -54.30       |              |
| 526.64       | S               | -66.69      | -70.09                    | 5.86                      | -2.46                  | -13.00              | -53.69       |              |
| 631.40       | S               | -65.07      | -67.94                    | 5.33                      | -2.46                  | -13.00              | -52.07       |              |
| 773.99       | S               | -61.76      | -64.24                    | 5.41                      | -2.93                  | -13.00              | -48.76       |              |
| 3815.20      | H               | -53.50      | -59.33                    | 12.46                     | -6.63                  | -13.00              | -40.50       |              |

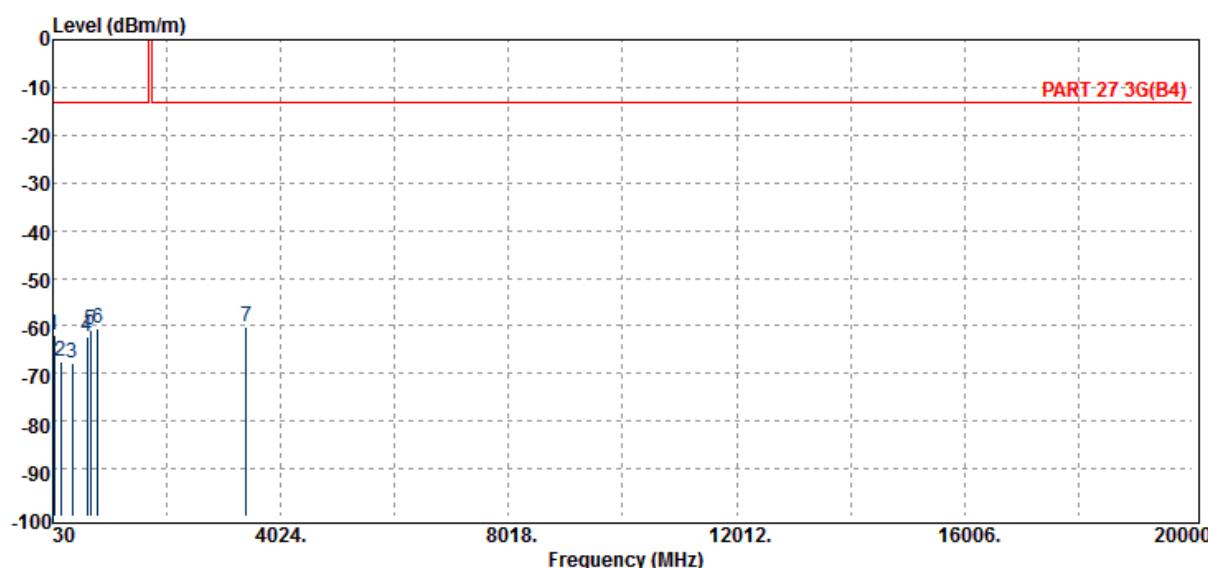
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**Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode (The Worst Case)**

Operation Band :HSDPA B4 Temp./Humi. :21 deg\_C / 62 RH  
 Fundamental Frequency :1712.4 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane Measurement Pol. Antenna :VERTICAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 57.16        | S               | -61.80      | -53.44                    | -53.44                    | -7.29                  | -1.07               | -13.00       | -48.80       |
| 163.86       | S               | -67.64      | -66.95                    | -66.95                    | 0.80                   | -1.49               | -13.00       | -54.64       |
| 362.71       | S               | -67.82      | -71.68                    | -71.68                    | 6.00                   | -2.15               | -13.00       | -54.82       |
| 624.61       | S               | -62.21      | -65.04                    | -65.04                    | 5.34                   | -2.51               | -13.00       | -49.21       |
| 681.84       | S               | -60.94      | -63.54                    | -63.54                    | 5.25                   | -2.65               | -13.00       | -47.94       |
| 818.61       | S               | -60.58      | -63.14                    | -63.14                    | 5.46                   | -2.91               | -13.00       | -47.58       |
| 3424.80      | H               | -60.13      | -66.17                    | -66.17                    | 12.27                  | -6.23               | -13.00       | -47.13       |

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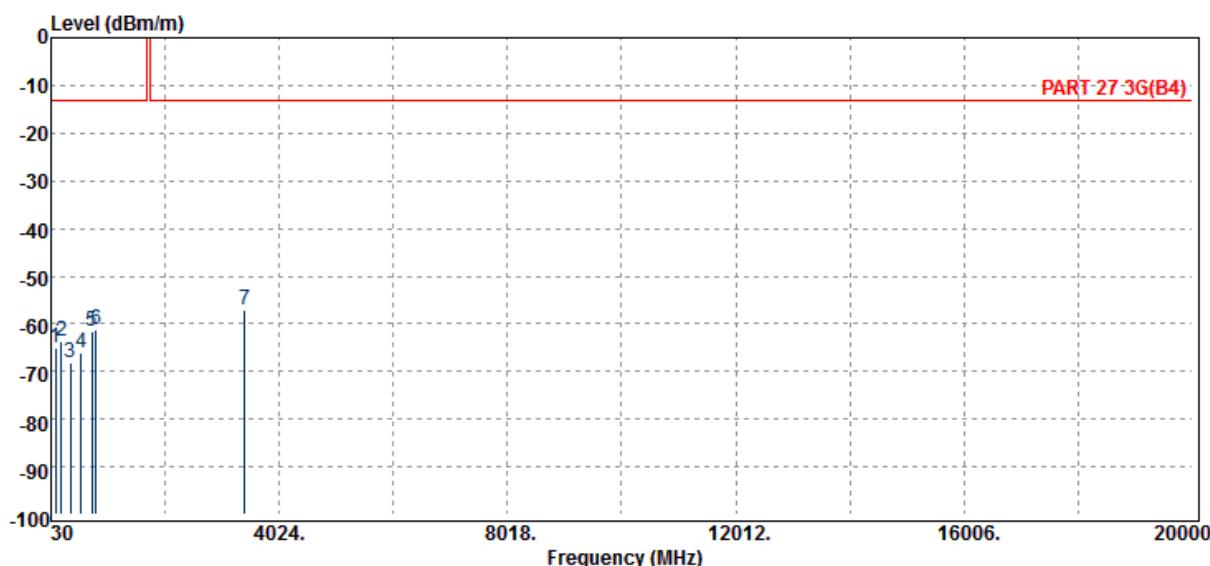
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Operation Band :HSDPA B4  
 Fundamental Frequency :1712.4 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



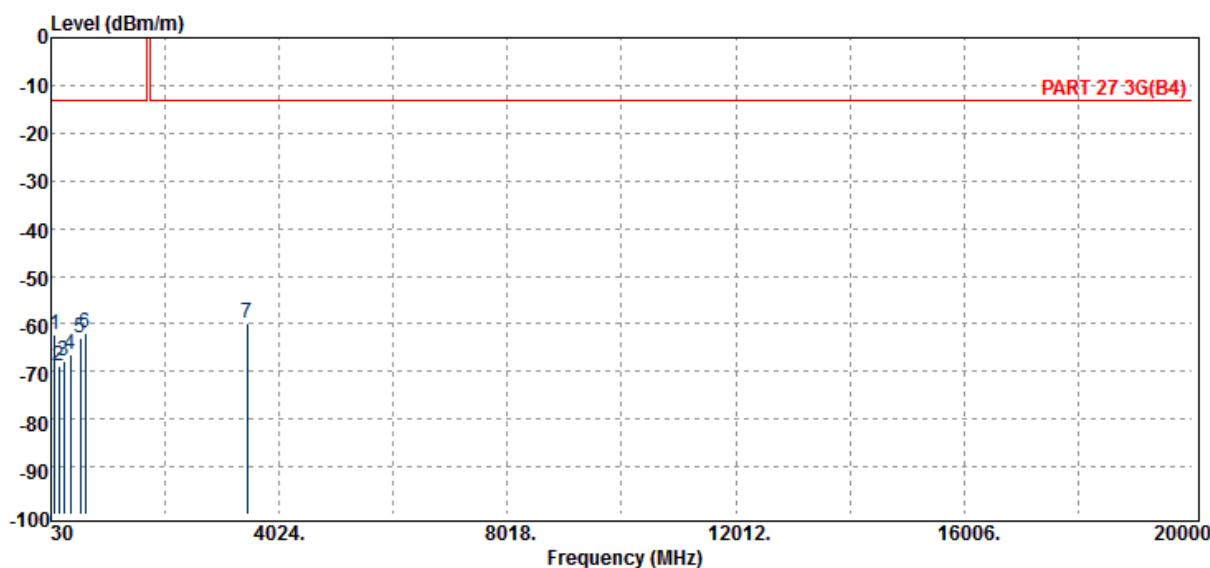
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 104.69       | S               | -64.90      | -63.74                    | -63.74                    | 0.11                   | -1.27               | -13.00       | -51.90       |
| 214.30       | S               | -63.50      | -67.40                    | -67.40                    | 5.59                   | -1.68               | -13.00       | -50.50       |
| 371.44       | S               | -68.03      | -71.81                    | -71.81                    | 5.99                   | -2.21               | -13.00       | -55.03       |
| 550.89       | S               | -66.13      | -69.16                    | -69.16                    | 5.73                   | -2.71               | -13.00       | -53.13       |
| 738.10       | S               | -61.44      | -63.61                    | -63.61                    | 5.31                   | -3.13               | -13.00       | -48.44       |
| 817.64       | S               | -61.12      | -63.68                    | -63.68                    | 5.47                   | -2.90               | -13.00       | -48.12       |
| 3424.80      | H               | -57.19      | -63.23                    | -63.23                    | 12.27                  | -6.23               | -13.00       | -44.19       |

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Operation Band :HSDPA B4  
 Fundamental Frequency :1732.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL



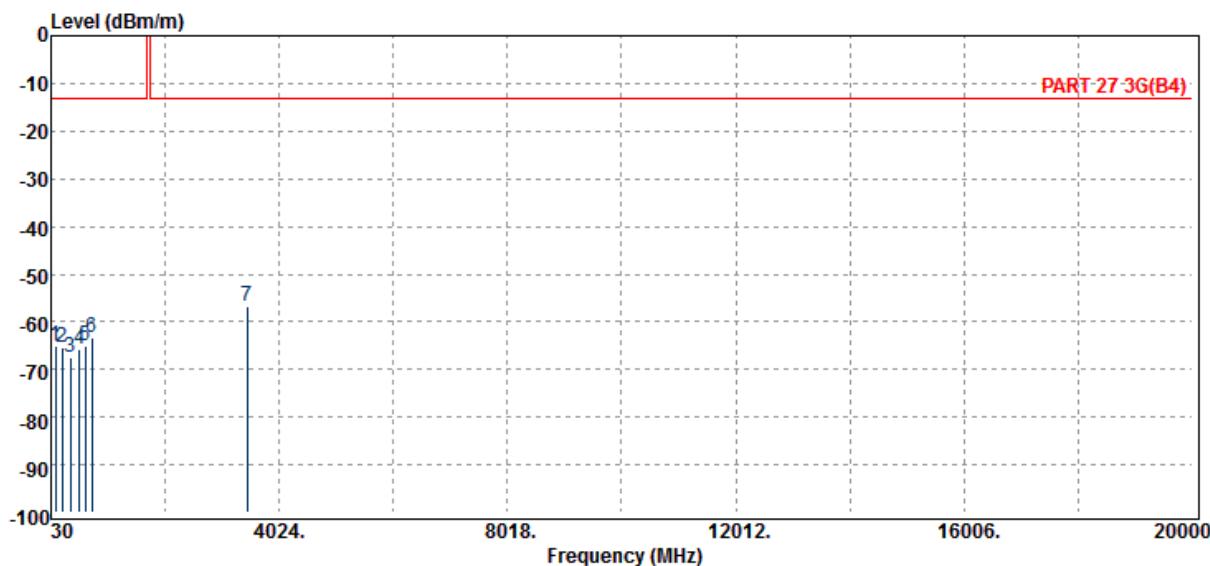
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 91.11        | S               | -62.35      | -62.71                    | -62.71                    | 1.58                   | -1.21               | -13.00       | -49.35       |
| 165.80       | S               | -68.89      | -68.33                    | -68.33                    | 0.94                   | -1.50               | -13.00       | -55.89       |
| 248.25       | S               | -67.86      | -71.67                    | -71.67                    | 5.56                   | -1.75               | -13.00       | -54.86       |
| 366.59       | S               | -66.56      | -70.38                    | -70.38                    | 6.00                   | -2.17               | -13.00       | -53.56       |
| 536.34       | S               | -62.88      | -66.12                    | -66.12                    | 5.81                   | -2.56               | -13.00       | -49.88       |
| 626.55       | S               | -61.92      | -64.77                    | -64.77                    | 5.34                   | -2.49               | -13.00       | -48.92       |
| 3465.20      | H               | -59.71      | -65.81                    | -65.81                    | 12.34                  | -6.25               | -13.00       | -46.71       |

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Operation Band :HSDPA B4  
 Fundamental Frequency :1732.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



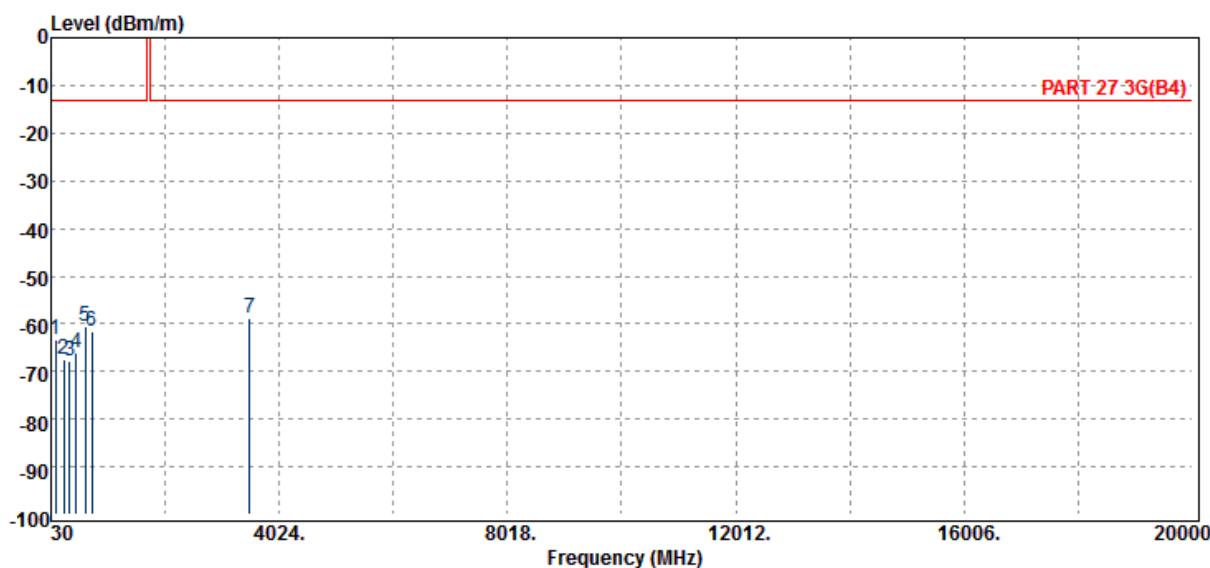
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 104.69       | S               | -65.00      | -63.84                    | -63.84                    | 0.11                   | -1.27               | -13.00       | -52.00       |
| 222.06       | S               | -65.24      | -68.97                    | -68.97                    | 5.43                   | -1.71               | -13.00       | -52.24       |
| 362.71       | S               | -67.32      | -71.18                    | -71.18                    | 6.00                   | -2.15               | -13.00       | -54.32       |
| 521.79       | S               | -65.58      | -69.06                    | -69.06                    | 5.89                   | -2.41               | -13.00       | -52.58       |
| 631.40       | S               | -65.22      | -68.08                    | -68.08                    | 5.33                   | -2.46               | -13.00       | -52.22       |
| 750.71       | S               | -63.25      | -65.51                    | -65.51                    | 5.33                   | -3.07               | -13.00       | -50.25       |
| 3465.20      | H               | -56.84      | -62.94                    | -62.94                    | 12.34                  | -6.25               | -13.00       | -43.84       |

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Operation Band :HSDPA B4  
 Fundamental Frequency :1752.6 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



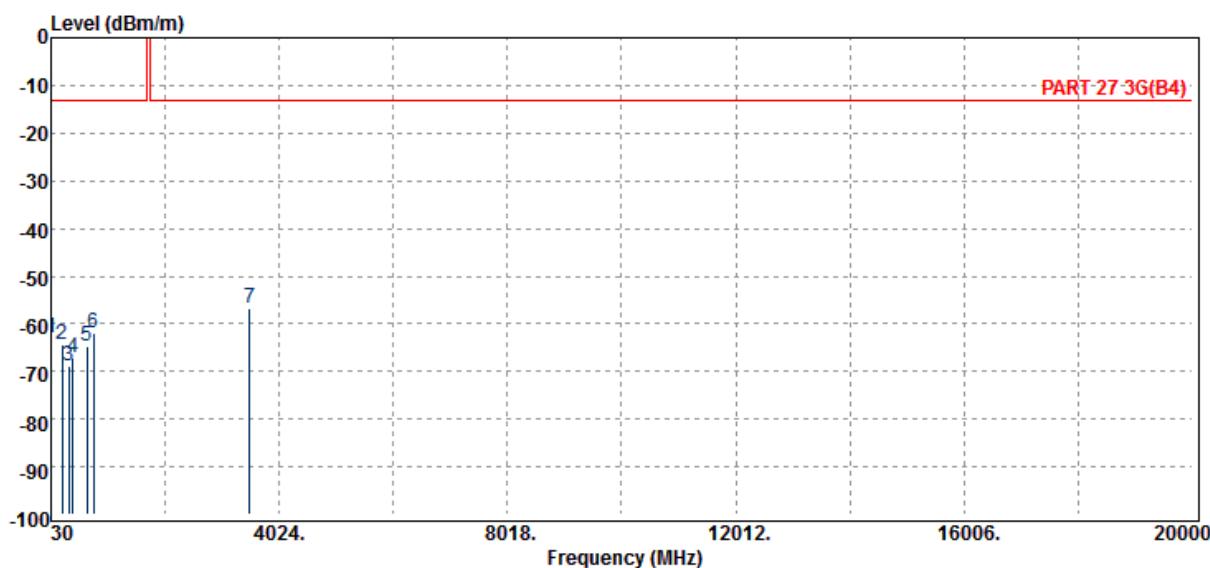
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 103.72       | S               | -63.30      | -62.23                    | -62.23                    | 0.20                   | -1.26               | -13.00       | -50.30       |
| 248.25       | S               | -67.62      | -71.43                    | -71.43                    | 5.56                   | -1.75               | -13.00       | -54.62       |
| 359.80       | S               | -67.96      | -71.84                    | -71.84                    | 6.00                   | -2.12               | -13.00       | -54.96       |
| 473.29       | S               | -66.14      | -69.81                    | -69.81                    | 5.90                   | -2.23               | -13.00       | -53.14       |
| 631.40       | S               | -60.57      | -63.43                    | -63.43                    | 5.33                   | -2.46               | -13.00       | -47.57       |
| 744.89       | S               | -61.44      | -63.65                    | -63.65                    | 5.32                   | -3.11               | -13.00       | -48.44       |
| 3505.20      | H               | -58.73      | -64.67                    | -64.67                    | 12.40                  | -6.47               | -13.00       | -45.73       |

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Operation Band :HSDPA B4  
 Fundamental Frequency :1752.6 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 37.76        | S               | -63.12      | -50.97                    | -50.97                    | -11.17                 | -0.98               | -13.00       | -50.12       |
| 224.00       | S               | -64.41      | -68.09                    | -68.09                    | 5.39                   | -1.71               | -13.00       | -51.41       |
| 335.55       | S               | -69.01      | -73.02                    | -73.02                    | 5.95                   | -1.93               | -13.00       | -56.01       |
| 410.24       | S               | -67.26      | -70.80                    | -70.80                    | 5.93                   | -2.40               | -13.00       | -54.26       |
| 658.56       | S               | -64.57      | -67.47                    | -67.47                    | 5.28                   | -2.38               | -13.00       | -51.57       |
| 772.05       | S               | -61.86      | -64.33                    | -64.33                    | 5.40                   | -2.94               | -13.00       | -48.86       |
| 3505.20      | H               | -56.87      | -62.80                    | -62.80                    | 12.40                  | -6.47               | -13.00       | -43.87       |

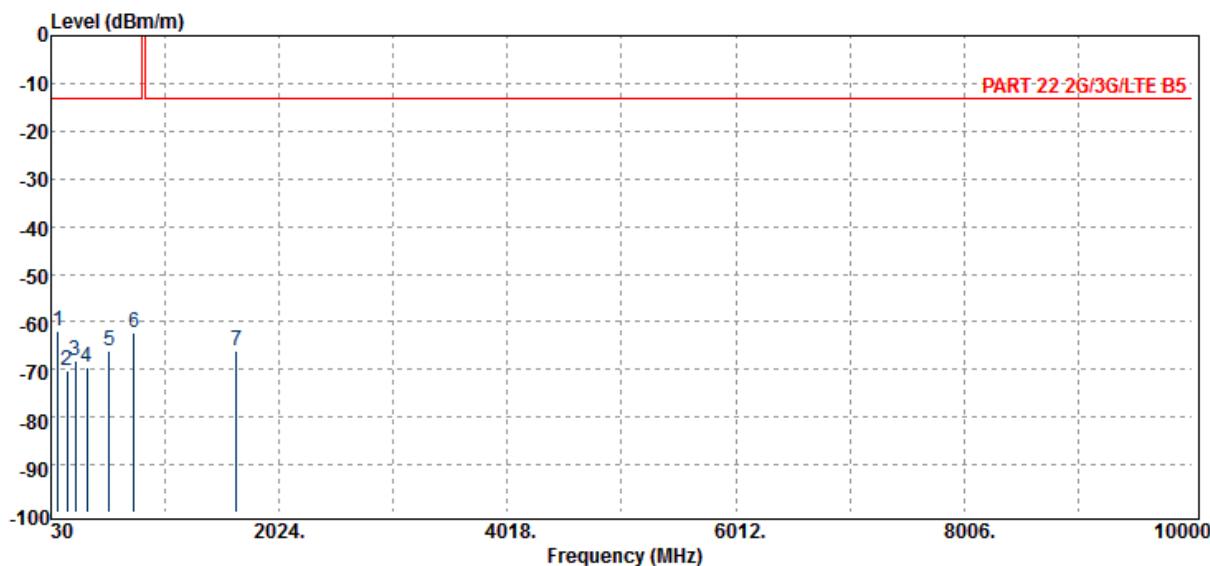
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**Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode (The Worst Case)**

Operation Band :HSDPA B5 Temp./Humi. :21 deg\_C / 62 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 | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 93.05        | S               | -59.68      | -59.80                    | 1.34                      | -1.22                  | -13                 | -46.68       |              |
| 168.71       | S               | -68.25      | -67.89                    | 1.15                      | -1.51                  | -13                 | -55.25       |              |
| 243.40       | S               | -66.07      | -69.81                    | 5.49                      | -1.75                  | -13                 | -53.07       |              |
| 342.34       | S               | -67.27      | -71.26                    | 5.98                      | -1.99                  | -13                 | -54.27       |              |
| 542.16       | S               | -63.94      | -67.10                    | 5.78                      | -2.62                  | -13                 | -50.94       |              |
| 757.50       | S               | -60.00      | -62.33                    | 5.36                      | -3.03                  | -13                 | -47.00       |              |
| 1652.80      | H               | -63.83      | -68.86                    | 9.27                      | -4.24                  | -13                 | -50.83       |              |

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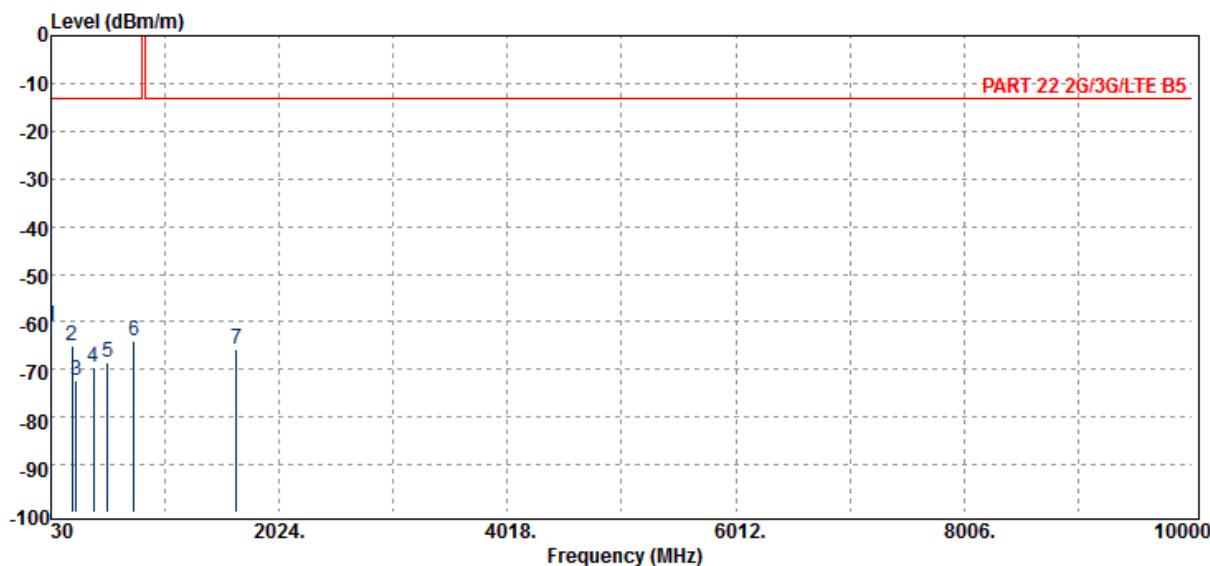
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Member of SGS Group

Operation Band :HSDPA B5  
 Fundamental Frequency :826.4 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



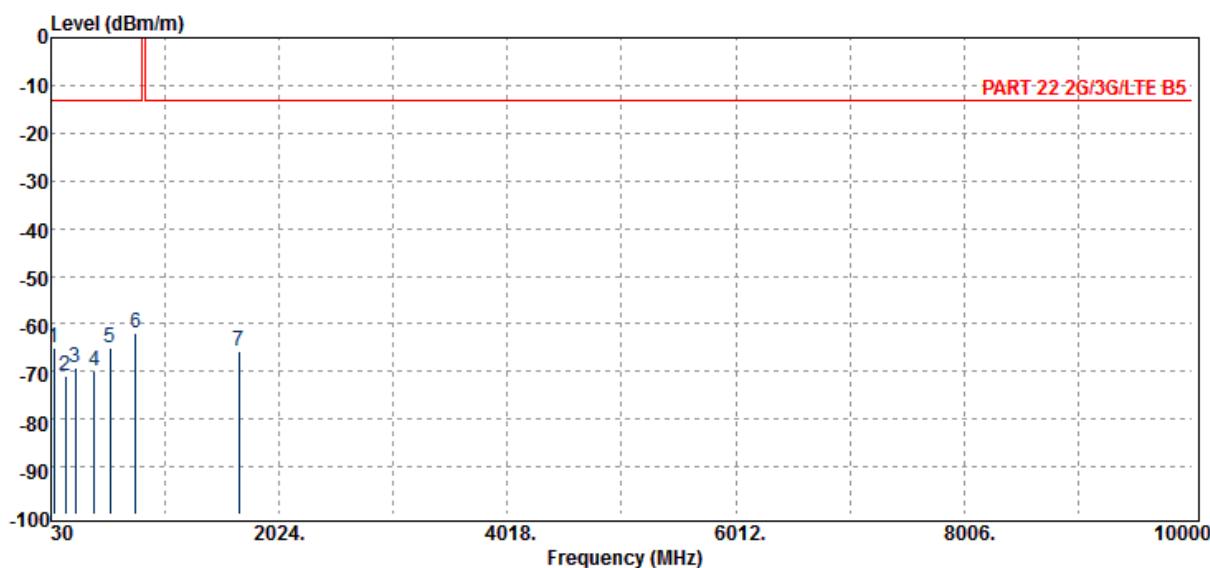
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 30.00        | S               | -58.69      | -45.10                    | -45.10                    | -12.63                 | -0.96               | -13          | -45.69       |
| 217.21       | S               | -62.76      | -66.60                    | -66.60                    | 5.53                   | -1.69               | -13          | -49.76       |
| 249.22       | S               | -70.11      | -73.93                    | -73.93                    | 5.58                   | -1.76               | -13          | -57.11       |
| 400.54       | S               | -67.43      | -71.02                    | -71.02                    | 5.97                   | -2.38               | -13          | -54.43       |
| 522.76       | S               | -66.37      | -69.83                    | -69.83                    | 5.88                   | -2.42               | -13          | -53.37       |
| 757.50       | S               | -61.89      | -64.22                    | -64.22                    | 5.36                   | -3.03               | -13          | -48.89       |
| 1652.80      | H               | -63.74      | -68.77                    | -68.77                    | 9.27                   | -4.24               | -13          | -50.74       |

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Operation Band :HSDPA B5  
 Fundamental Frequency :836.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :VERTICAL



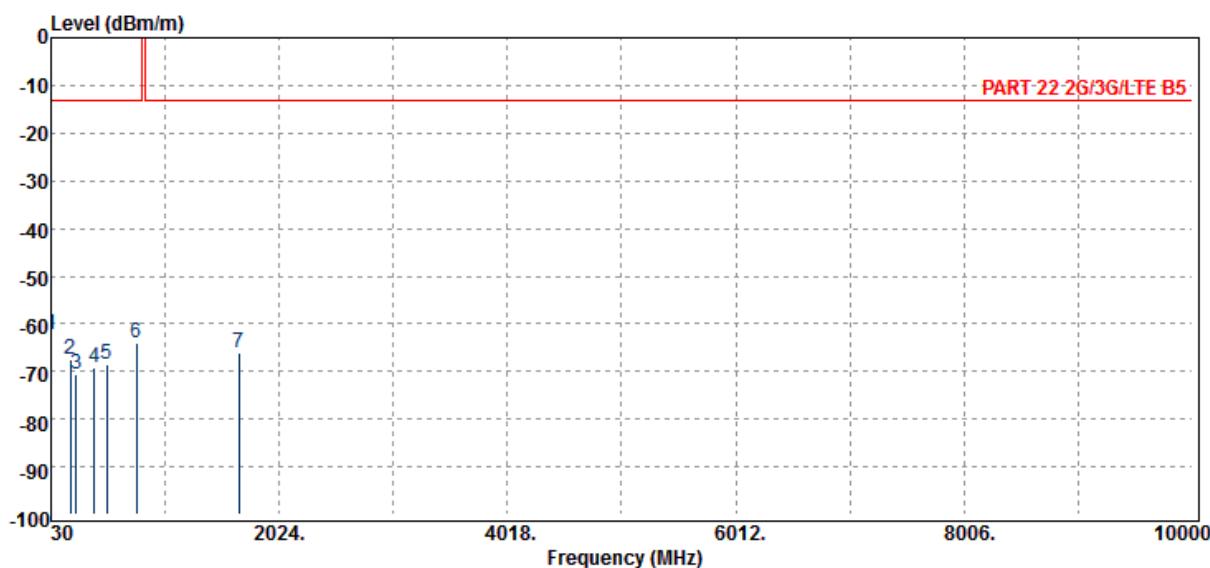
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 54.25        | S               | -62.81      | -53.72                    | -53.72                    | -8.03                  | -1.06               | -13          | -49.81       |
| 158.04       | S               | -68.62      | -67.57                    | -67.57                    | 0.42                   | -1.47               | -13          | -55.62       |
| 239.52       | S               | -67.05      | -70.74                    | -70.74                    | 5.43                   | -1.74               | -13          | -54.05       |
| 411.21       | S               | -67.71      | -71.25                    | -71.25                    | 5.93                   | -2.39               | -13          | -54.71       |
| 548.95       | S               | -63.01      | -66.06                    | -66.06                    | 5.74                   | -2.69               | -13          | -50.01       |
| 769.14       | S               | -59.95      | -62.38                    | -62.38                    | 5.39                   | -2.96               | -13          | -46.95       |
| 1673.20      | H               | -63.53      | -68.59                    | -68.59                    | 9.35                   | -4.29               | -13          | -50.53       |

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Operation Band :HSDPA B5  
 Fundamental Frequency :836.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



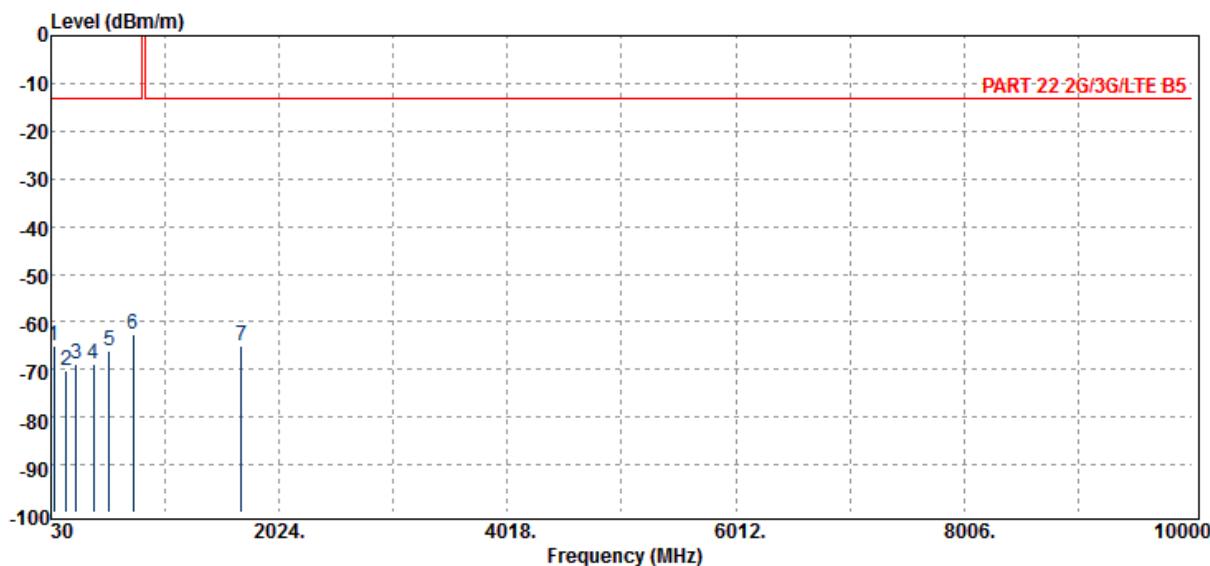
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                        | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | Antenna<br>Gain<br>dBi |                        |                     |              |              |
| 30.00        | S               | -60.04      | -46.45                    | -12.63                 | -0.96                  | -13                 | -47.04       |              |
| 202.66       | S               | -65.23      | -68.95                    | 5.37                   | -1.65                  | -13                 | -52.23       |              |
| 248.25       | S               | -68.49      | -72.30                    | 5.56                   | -1.75                  | -13                 | -55.49       |              |
| 408.30       | S               | -66.95      | -70.48                    | 5.94                   | -2.41                  | -13                 | -53.95       |              |
| 517.91       | S               | -66.45      | -69.99                    | 5.91                   | -2.37                  | -13                 | -53.45       |              |
| 773.99       | S               | -61.74      | -64.22                    | 5.41                   | -2.93                  | -13                 | -48.74       |              |
| 1673.20      | H               | -63.83      | -68.89                    | 9.35                   | -4.29                  | -13                 | -50.83       |              |

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Operation Band :HSDPA B5  
 Fundamental Frequency :846.6 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :VERTICAL



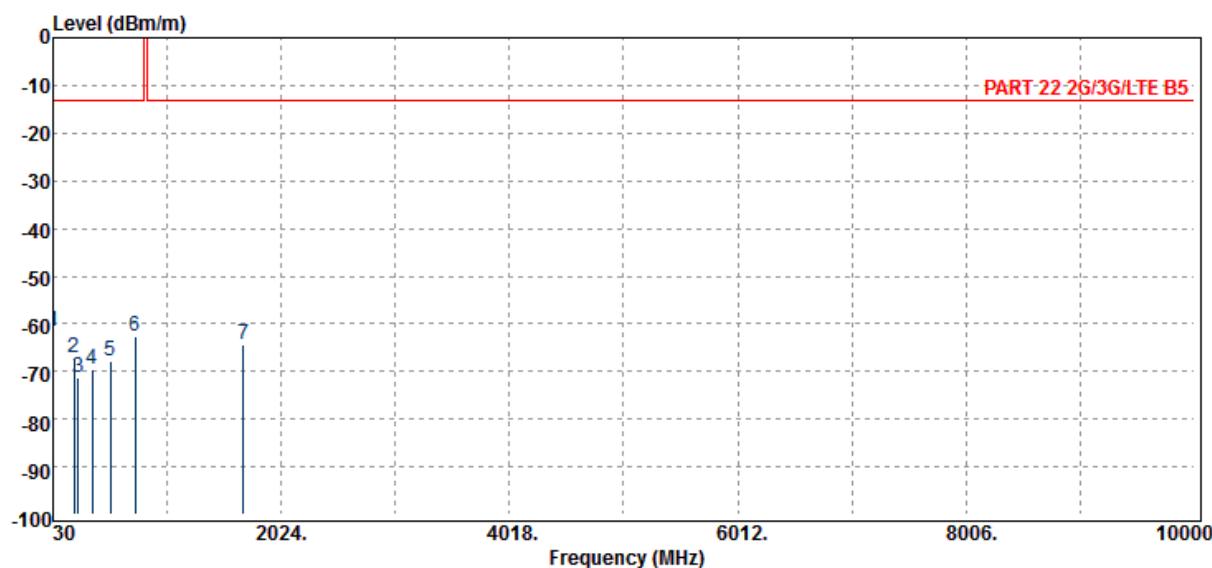
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                        | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | Antenna<br>Gain<br>dBi |                        |                     |              |              |
| 54.25        | S               | -62.89      | -53.80                    | -8.03                  | -1.06                  | -13                 | -49.89       |              |
| 159.98       | S               | -68.00      | -67.03                    | 0.51                   | -1.48                  | -13                 | -55.00       |              |
| 248.25       | S               | -66.83      | -70.64                    | 5.56                   | -1.75                  | -13                 | -53.83       |              |
| 403.45       | S               | -66.69      | -70.25                    | 5.96                   | -2.40                  | -13                 | -53.69       |              |
| 541.19       | S               | -63.77      | -66.94                    | 5.78                   | -2.61                  | -13                 | -50.77       |              |
| 745.86       | S               | -60.41      | -62.63                    | 5.32                   | -3.10                  | -13                 | -47.41       |              |
| 1693.20      | H               | -62.97      | -68.09                    | 9.42                   | -4.30                  | -13                 | -49.97       |              |

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Operation Band :HSDPA B5  
 Fundamental Frequency :846.6 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 30.00        | S               | -59.35      | -45.76                    | -45.76                    | -12.63                 | -0.96               | -13          | -46.35       |
| 216.24       | S               | -64.91      | -68.77                    | -68.77                    | 5.55                   | -1.69               | -13          | -51.91       |
| 250.19       | S               | -69.30      | -73.13                    | -73.13                    | 5.59                   | -1.76               | -13          | -56.30       |
| 371.44       | S               | -67.44      | -71.22                    | -71.22                    | 5.99                   | -2.21               | -13          | -54.44       |
| 529.55       | S               | -65.74      | -69.10                    | -69.10                    | 5.85                   | -2.49               | -13          | -52.74       |
| 744.89       | S               | -60.65      | -62.86                    | -62.86                    | 5.32                   | -3.11               | -13          | -47.65       |
| 1693.20      | H               | -62.23      | -67.35                    | -67.35                    | 9.42                   | -4.30               | -13          | -49.23       |

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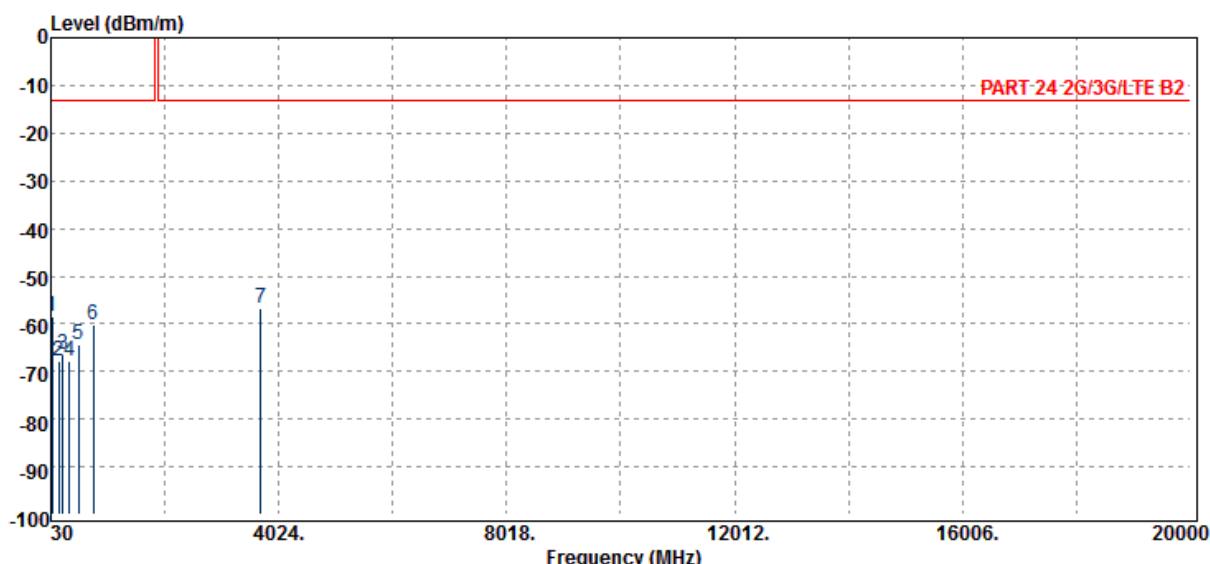
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## Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

|                       |             |                 |                   |
|-----------------------|-------------|-----------------|-------------------|
| Operation Band        | :LTE B2     | Temp./Humi.     | :23 deg_C / 62 RH |
| Fundamental Frequency | :1855.0 MHz | Engineer        | :Tin              |
| Operation Mode        | :Tx CH LOW  |                 |                   |
| EUT Pol.              | :H Plane    | Measurement Pol | Antenna :VERTICAL |



| Freq.   | Note    | EIRP   | SG           | Antenna | Cable | Limit  | Margin |
|---------|---------|--------|--------------|---------|-------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level | Gain    | Loss  | dBm    | dB     |
| 54.25   | S       | -58.37 | -49.27       | -8.03   | -1.06 | -13.00 | -45.37 |
| 165.80  | S       | -67.65 | -67.09       | 0.94    | -1.50 | -13.00 | -54.65 |
| 239.52  | S       | -66.53 | -70.22       | 5.43    | -1.74 | -13.00 | -53.53 |
| 361.74  | S       | -67.81 | -71.68       | 6.00    | -2.14 | -13.00 | -54.81 |
| 517.91  | S       | -64.22 | -67.76       | 5.91    | -2.37 | -13.00 | -51.22 |
| 773.99  | S       | -60.19 | -62.67       | 5.41    | -2.93 | -13.00 | -47.19 |
| 3710.00 | H       | -56.77 | -62.64       | 12.44   | -6.58 | -13.00 | -43.77 |

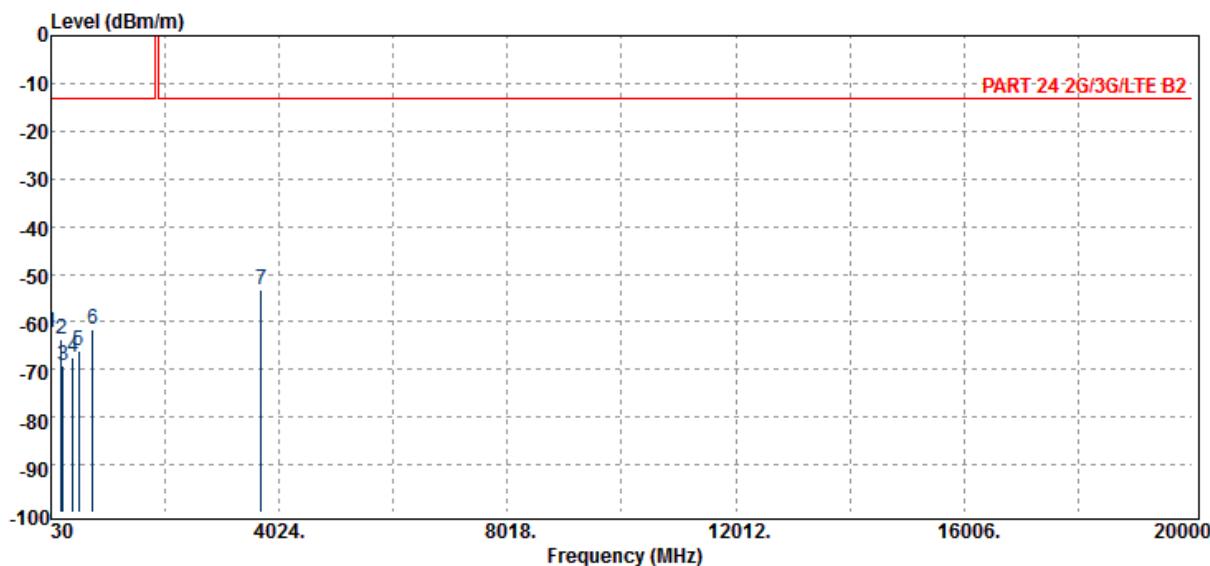
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Operation Band :LTE B2  
 Fundamental Frequency :1855.0 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 30.00        | S               | -62.39      | -48.80                    | -48.80                    | -12.63                 | -0.96               | -13.00       | -49.39       |
| 207.51       | S               | -63.59      | -67.50                    | -67.50                    | 5.57                   | -1.66               | -13.00       | -50.59       |
| 246.31       | S               | -69.12      | -72.91                    | -72.91                    | 5.53                   | -1.75               | -13.00       | -56.12       |
| 410.24       | S               | -67.35      | -70.88                    | -70.88                    | 5.93                   | -2.40               | -13.00       | -54.35       |
| 516.94       | S               | -66.22      | -69.77                    | -69.77                    | 5.91                   | -2.37               | -13.00       | -53.22       |
| 764.29       | S               | -61.49      | -63.88                    | -63.88                    | 5.38                   | -2.99               | -13.00       | -48.49       |
| 3710.00      | H               | -53.22      | -59.09                    | -59.09                    | 12.44                  | -6.58               | -13.00       | -40.22       |

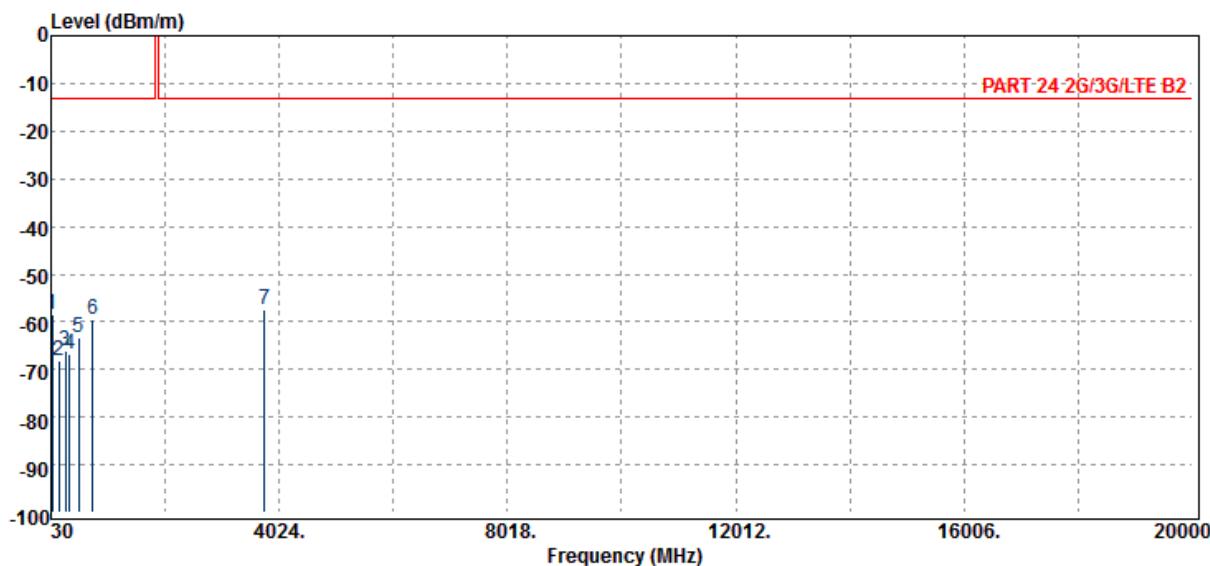
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Operation Band :LTE B2  
 Fundamental Frequency :1880.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :VERTICAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 54.25        | S               | -58.63      | -49.53                    | -49.53                    | -8.03                  | -1.06               | -13.00       | -45.63       |
| 168.71       | S               | -68.09      | -67.72                    | -67.72                    | 1.15                   | -1.51               | -13.00       | -55.09       |
| 282.20       | S               | -66.02      | -69.71                    | -69.71                    | 5.57                   | -1.89               | -13.00       | -53.02       |
| 361.74       | S               | -66.72      | -70.59                    | -70.59                    | 6.00                   | -2.14               | -13.00       | -53.72       |
| 517.91       | S               | -63.35      | -66.89                    | -66.89                    | 5.91                   | -2.37               | -13.00       | -50.35       |
| 755.56       | S               | -59.67      | -61.97                    | -61.97                    | 5.35                   | -3.04               | -13.00       | -46.67       |
| 3760.00      | H               | -57.35      | -63.20                    | -63.20                    | 12.45                  | -6.60               | -13.00       | -44.35       |

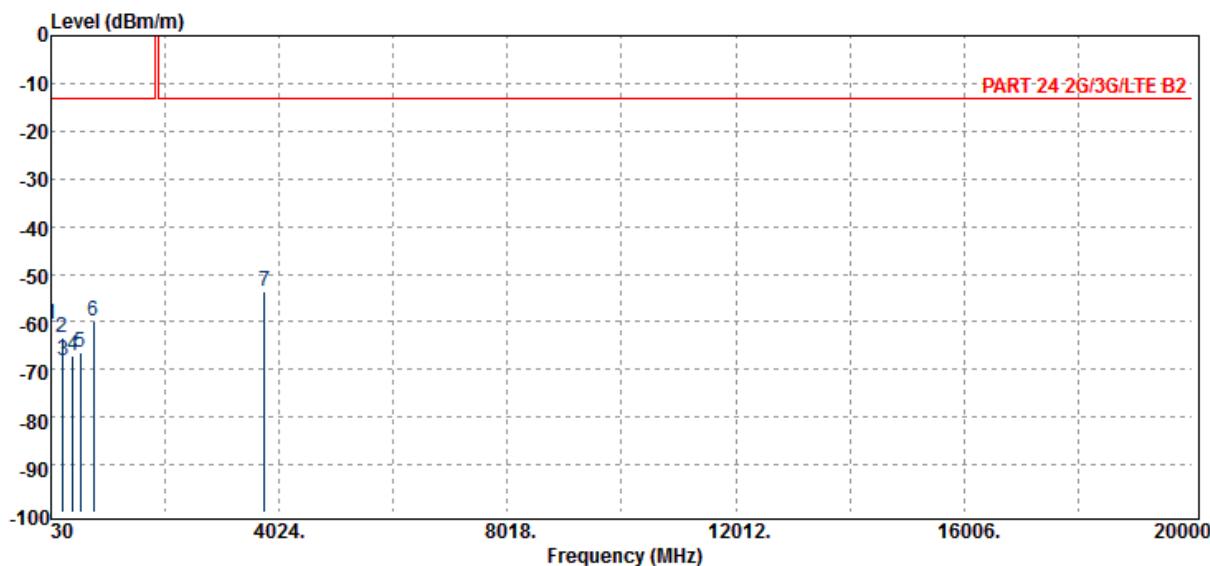
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Operation Band :LTE B2  
 Fundamental Frequency :1880.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 30.00        | S               | -60.47      | -46.88                    | -46.88                    | -12.63                 | -0.96               | -13.00       | -47.47       |
| 219.15       | S               | -63.37      | -67.17                    | -67.17                    | 5.49                   | -1.70               | -13.00       | -50.37       |
| 240.49       | S               | -68.01      | -71.71                    | -71.71                    | 5.44                   | -1.74               | -13.00       | -55.01       |
| 406.36       | S               | -66.99      | -70.52                    | -70.52                    | 5.95                   | -2.42               | -13.00       | -53.99       |
| 539.25       | S               | -66.46      | -69.66                    | -69.66                    | 5.79                   | -2.59               | -13.00       | -53.46       |
| 770.11       | S               | -59.96      | -62.40                    | -62.40                    | 5.40                   | -2.95               | -13.00       | -46.96       |
| 3760.00      | H               | -53.72      | -59.58                    | -59.58                    | 12.45                  | -6.60               | -13.00       | -40.72       |

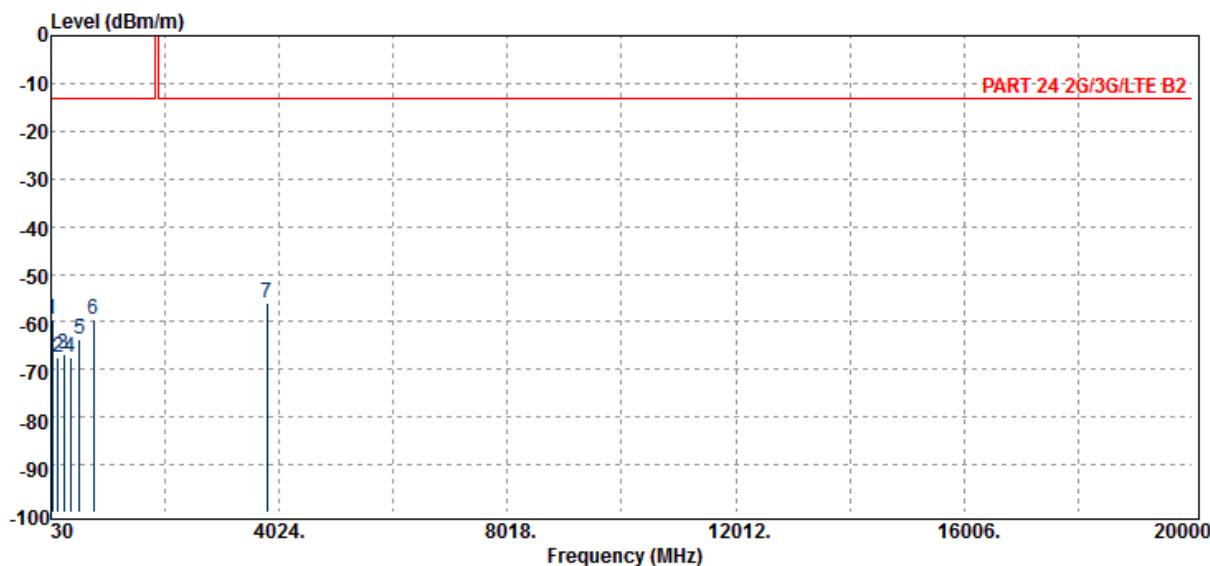
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Operation Band :LTE B2  
 Fundamental Frequency :1905.0 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :VERTICAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 54.25        | S               | -59.35      | -50.25                    | -50.25                    | -8.03                  | -1.06               | -13.00       | -46.35       |
| 159.01       | S               | -67.50      | -66.50                    | -66.50                    | 0.47                   | -1.47               | -13.00       | -54.50       |
| 248.25       | S               | -66.91      | -70.72                    | -70.72                    | 5.56                   | -1.75               | -13.00       | -53.91       |
| 376.29       | S               | -67.48      | -71.23                    | -71.23                    | 5.99                   | -2.24               | -13.00       | -54.48       |
| 527.61       | S               | -63.64      | -67.02                    | -67.02                    | 5.86                   | -2.47               | -13.00       | -50.64       |
| 769.14       | S               | -59.40      | -61.83                    | -61.83                    | 5.39                   | -2.96               | -13.00       | -46.40       |
| 3810.00      | H               | -56.10      | -61.95                    | -61.95                    | 12.46                  | -6.62               | -13.00       | -43.10       |

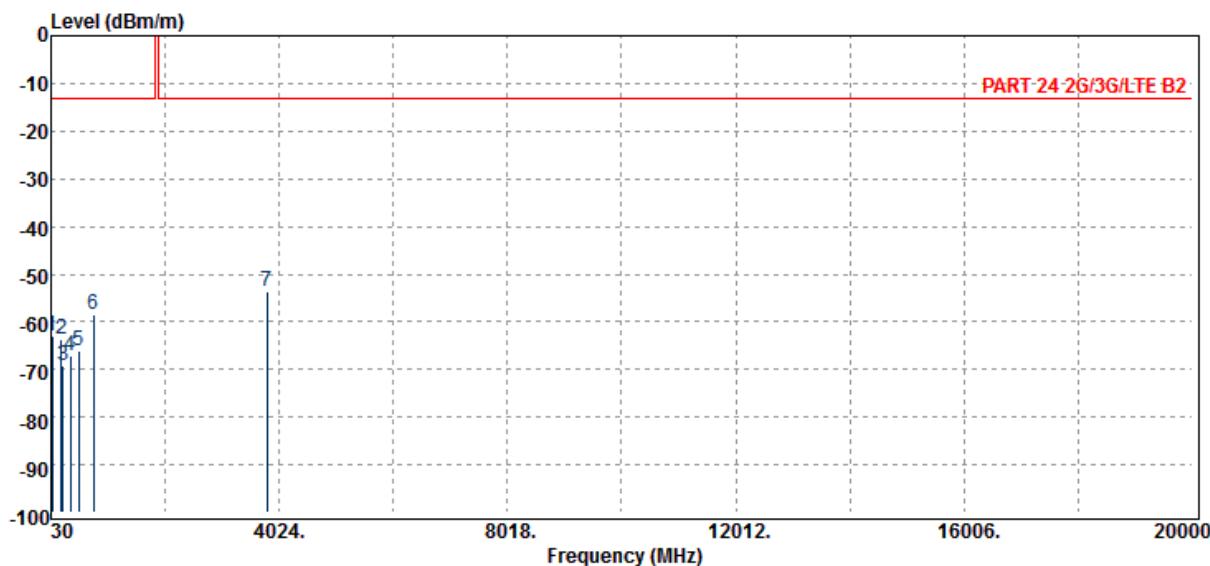
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Operation Band :LTE B2  
 Fundamental Frequency :1905.0 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 54.25        | S               | -62.84      | -53.75                    | -8.03                     | -1.06                  | -13.00              | -49.84       |              |
| 207.51       | S               | -63.52      | -67.43                    | 5.57                      | -1.66                  | -13.00              | -50.52       |              |
| 246.31       | S               | -69.22      | -73.00                    | 5.53                      | -1.75                  | -13.00              | -56.22       |              |
| 366.59       | S               | -67.08      | -70.90                    | 6.00                      | -2.17                  | -13.00              | -54.08       |              |
| 517.91       | S               | -66.18      | -69.72                    | 5.91                      | -2.37                  | -13.00              | -53.18       |              |
| 773.99       | S               | -58.35      | -60.83                    | 5.41                      | -2.93                  | -13.00              | -45.35       |              |
| 3810.00      | H               | -53.50      | -59.34                    | 12.46                     | -6.62                  | -13.00              | -40.50       |              |

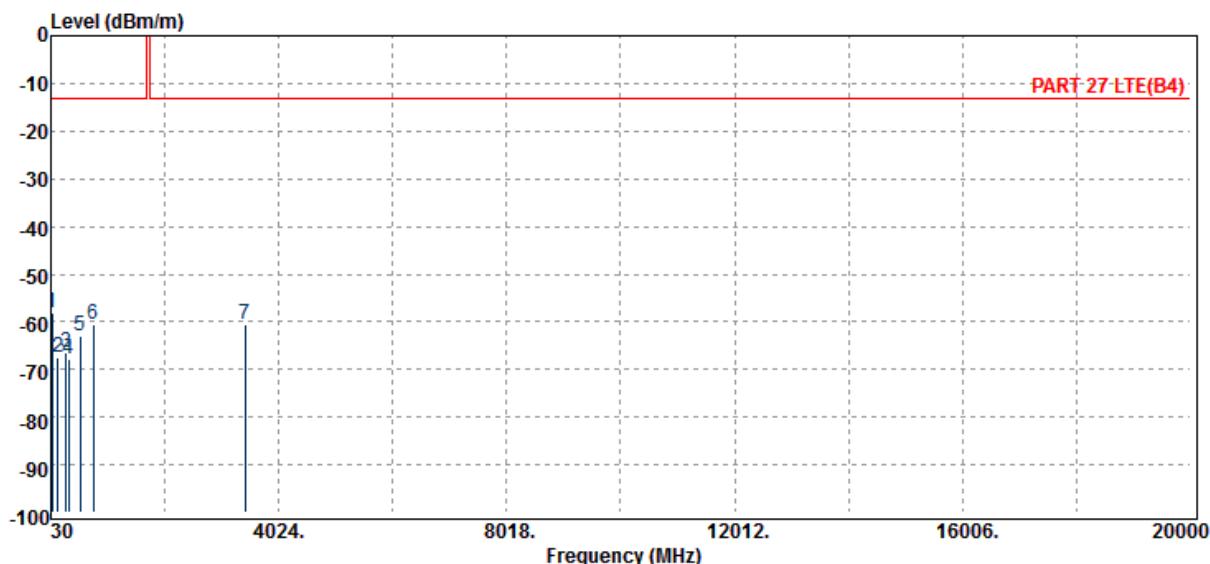
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**Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)**

Operation Band :LTE B4 Temp./Humi. :23 deg\_C / 62 RH  
 Fundamental Frequency :1715 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW Mode: 10M QPSK RB 1,0  
 EUT Pol. :H Plane Measurement Antenna :VERTICAL  
 Pol.



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 54.25        | S               | -57.97      | -48.87                    | -48.87                    | -8.03                  | -1.06               | -13.00       | -44.97       |
| 154.16       | S               | -67.57      | -66.36                    | -66.36                    | 0.25                   | -1.45               | -13.00       | -54.57       |
| 296.75       | S               | -66.54      | -70.30                    | -70.30                    | 5.71                   | -1.95               | -13.00       | -53.54       |
| 337.49       | S               | -67.69      | -71.69                    | -71.69                    | 5.95                   | -1.95               | -13.00       | -54.69       |
| 537.31       | S               | -62.85      | -66.08                    | -66.08                    | 5.80                   | -2.57               | -13.00       | -49.85       |
| 773.99       | S               | -60.54      | -63.02                    | -63.02                    | 5.41                   | -2.93               | -13.00       | -47.54       |
| 3440.00      | H               | -60.50      | -66.58                    | -66.58                    | 12.30                  | -6.22               | -13.00       | -47.50       |

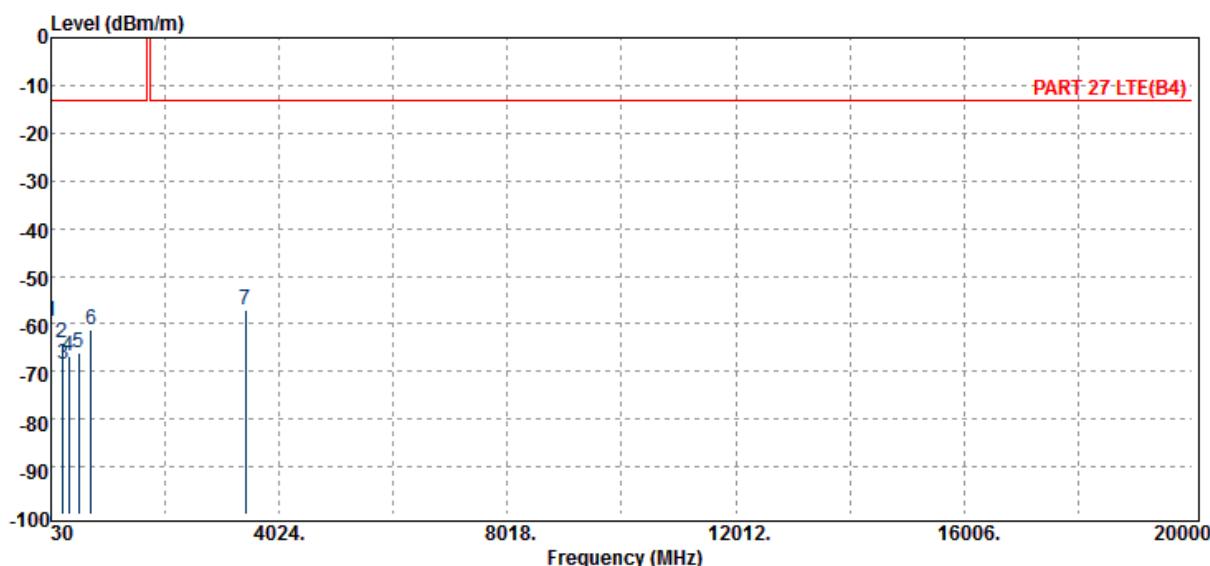
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Operation Band :LTE B4  
 Fundamental Frequency :1715 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 30.00        | S               | -59.57      | -45.98                    | -45.98                    | -12.63                 | -0.96               | -13.00       | -46.57       |
| 220.12       | S               | -63.85      | -67.62                    | -67.62                    | 5.48                   | -1.70               | -13.00       | -50.85       |
| 239.52       | S               | -68.59      | -72.28                    | -72.28                    | 5.43                   | -1.74               | -13.00       | -55.59       |
| 335.55       | S               | -66.62      | -70.63                    | -70.63                    | 5.95                   | -1.93               | -13.00       | -53.62       |
| 519.85       | S               | -66.00      | -69.50                    | -69.50                    | 5.90                   | -2.39               | -13.00       | -53.00       |
| 733.25       | S               | -61.17      | -63.35                    | -63.35                    | 5.30                   | -3.12               | -13.00       | -48.17       |
| 3440.00      | H               | -56.93      | -63.01                    | -63.01                    | 12.30                  | -6.22               | -13.00       | -43.93       |

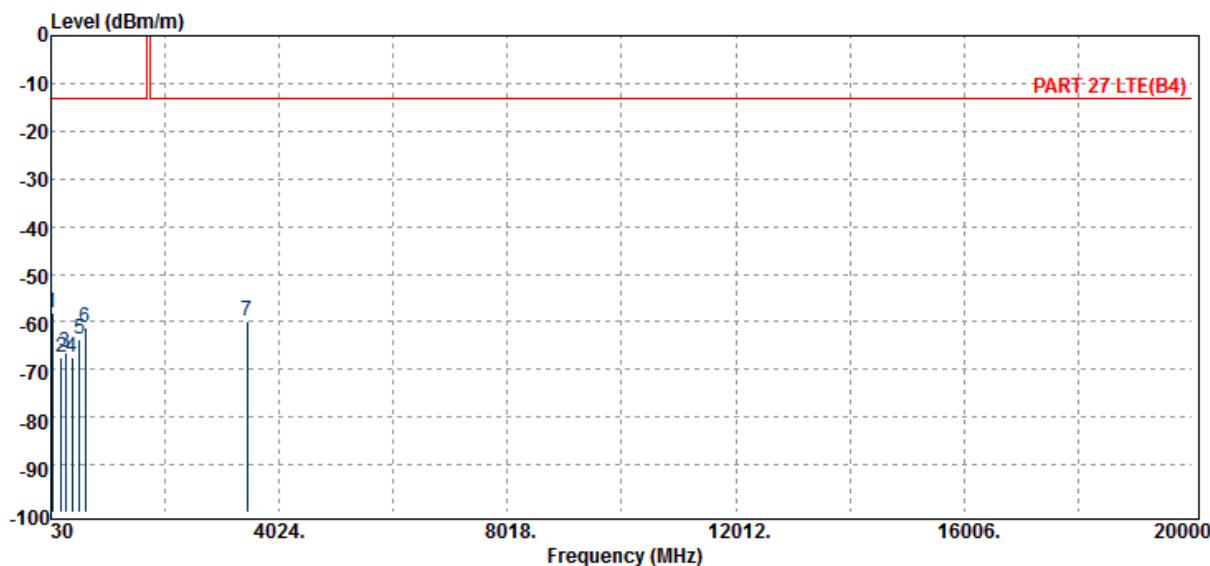
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Operation Band :LTE B4  
 Fundamental Frequency :1732.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :VERTICAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 54.25        | S               | -58.11      | -49.02                    | -49.02                    | -8.03                  | -1.06               | -13.00       | -45.11       |
| 212.36       | S               | -67.34      | -71.29                    | -71.29                    | 5.63                   | -1.68               | -13.00       | -54.34       |
| 285.11       | S               | -66.45      | -70.13                    | -70.13                    | 5.58                   | -1.90               | -13.00       | -53.45       |
| 400.54       | S               | -67.52      | -71.10                    | -71.10                    | 5.97                   | -2.38               | -13.00       | -54.52       |
| 527.61       | S               | -63.75      | -67.14                    | -67.14                    | 5.86                   | -2.47               | -13.00       | -50.75       |
| 624.61       | S               | -61.08      | -63.92                    | -63.92                    | 5.34                   | -2.51               | -13.00       | -48.08       |
| 3465.00      | H               | -59.88      | -65.98                    | -65.98                    | 12.34                  | -6.25               | -13.00       | -46.88       |

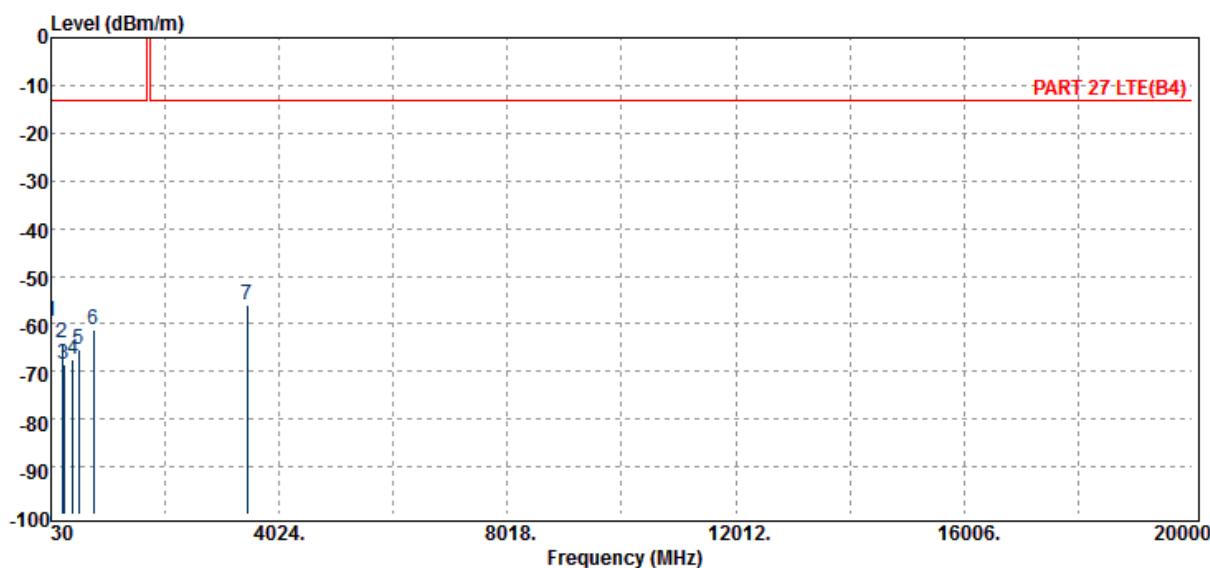
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Operation Band :LTE B4  
 Fundamental Frequency :1732.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |        | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|--------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output                    | Level  |                        |                     |              |              |
| 30.00        | S               | -59.41      | -45.82                    | -45.82 | -12.63                 | -0.96               | -13.00       | -46.41       |
| 219.15       | S               | -63.89      | -67.69                    | -67.69 | 5.49                   | -1.70               | -13.00       | -50.89       |
| 251.16       | S               | -68.57      | -72.43                    | -72.43 | 5.62                   | -1.76               | -13.00       | -55.57       |
| 410.24       | S               | -67.45      | -70.99                    | -70.99 | 5.93                   | -2.40               | -13.00       | -54.45       |
| 519.85       | S               | -65.41      | -68.92                    | -68.92 | 5.90                   | -2.39               | -13.00       | -52.41       |
| 770.11       | S               | -61.15      | -63.60                    | -63.60 | 5.40                   | -2.95               | -13.00       | -48.15       |
| 3465.00      | H               | -56.10      | -62.20                    | -62.20 | 12.34                  | -6.25               | -13.00       | -43.10       |

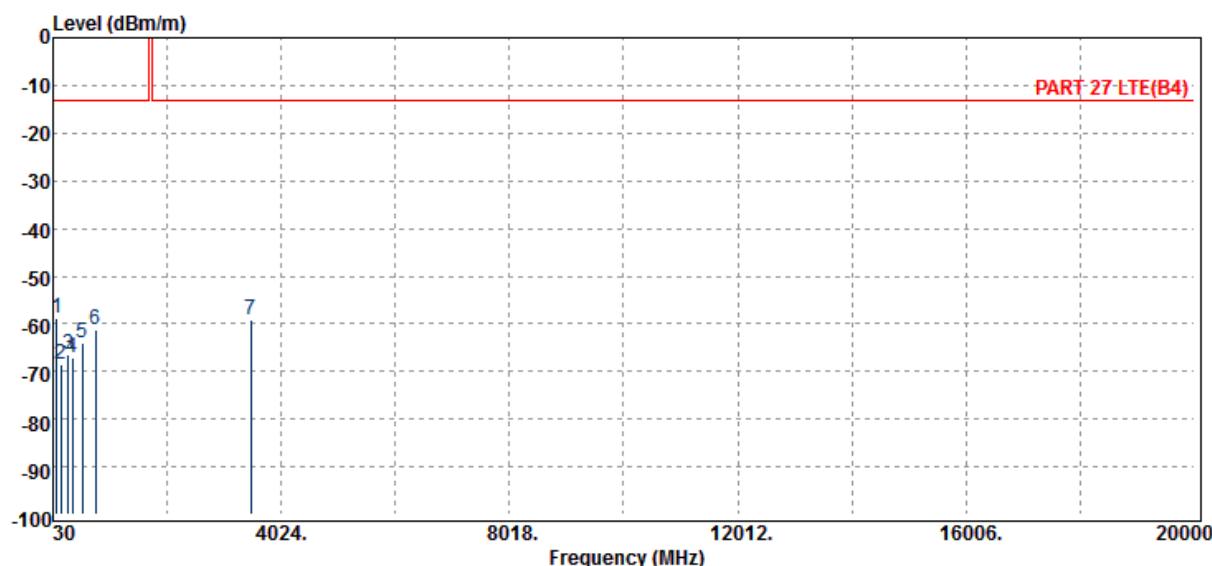
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Operation Band :LTE B4  
 Fundamental Frequency :1750 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :VERTICAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 95.96        | S               | -58.99      | -58.75                    | 0.99                      | -1.23                  | -13.00              | -45.99       |              |
| 165.80       | S               | -68.51      | -67.95                    | 0.94                      | -1.50                  | -13.00              | -55.51       |              |
| 294.81       | S               | -66.26      | -69.99                    | 5.67                      | -1.94                  | -13.00              | -53.26       |              |
| 369.50       | S               | -67.25      | -71.05                    | 6.00                      | -2.20                  | -13.00              | -54.25       |              |
| 542.16       | S               | -63.87      | -67.03                    | 5.78                      | -2.62                  | -13.00              | -50.87       |              |
| 774.96       | S               | -61.14      | -63.63                    | 5.41                      | -2.92                  | -13.00              | -48.14       |              |
| 3490.00      | H               | -59.03      | -65.06                    | 12.38                     | -6.35                  | -13.00              | -46.03       |              |

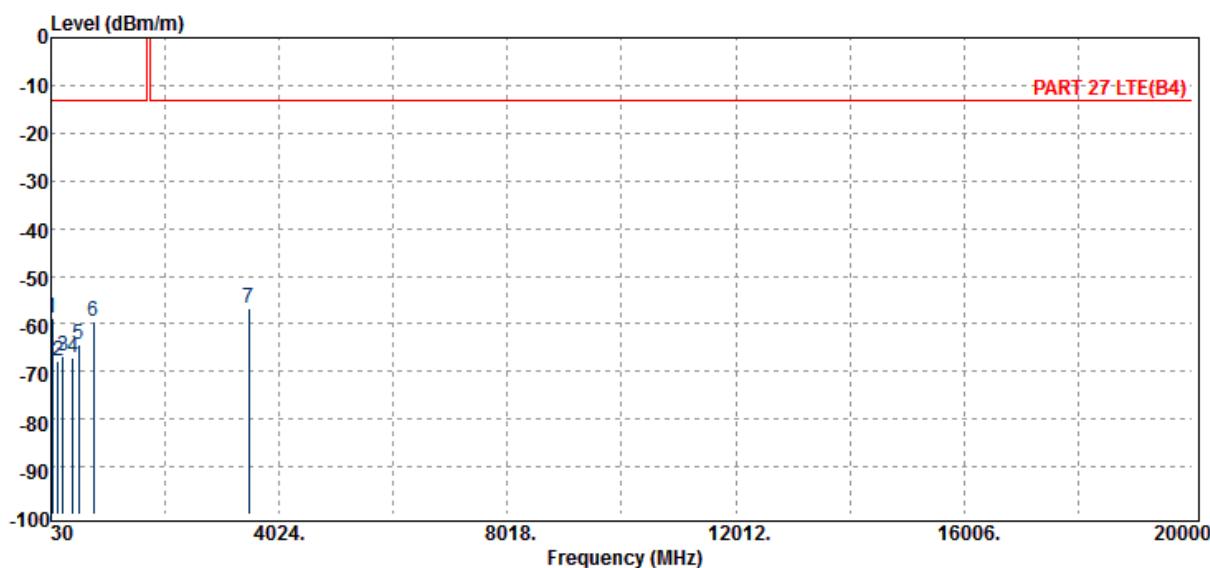
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Operation Band :LTE B4  
 Fundamental Frequency :1750 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 10M QPSK RB 1,0  
 Measurement Pol. Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 54.25        | S               | -58.84      | -49.75                    | -49.75                    | -8.03                  | -1.06               | -13.00       | -45.84       |
| 154.16       | S               | -67.88      | -66.68                    | -66.68                    | 0.25                   | -1.45               | -13.00       | -54.88       |
| 239.52       | S               | -66.66      | -70.35                    | -70.35                    | 5.43                   | -1.74               | -13.00       | -53.66       |
| 415.09       | S               | -67.15      | -70.70                    | -70.70                    | 5.92                   | -2.37               | -13.00       | -54.15       |
| 519.85       | S               | -64.29      | -67.79                    | -67.79                    | 5.90                   | -2.39               | -13.00       | -51.29       |
| 769.14       | S               | -59.44      | -61.87                    | -61.87                    | 5.39                   | -2.96               | -13.00       | -46.44       |
| 3490.00      | H               | -56.78      | -62.81                    | -62.81                    | 12.38                  | -6.35               | -13.00       | -43.78       |

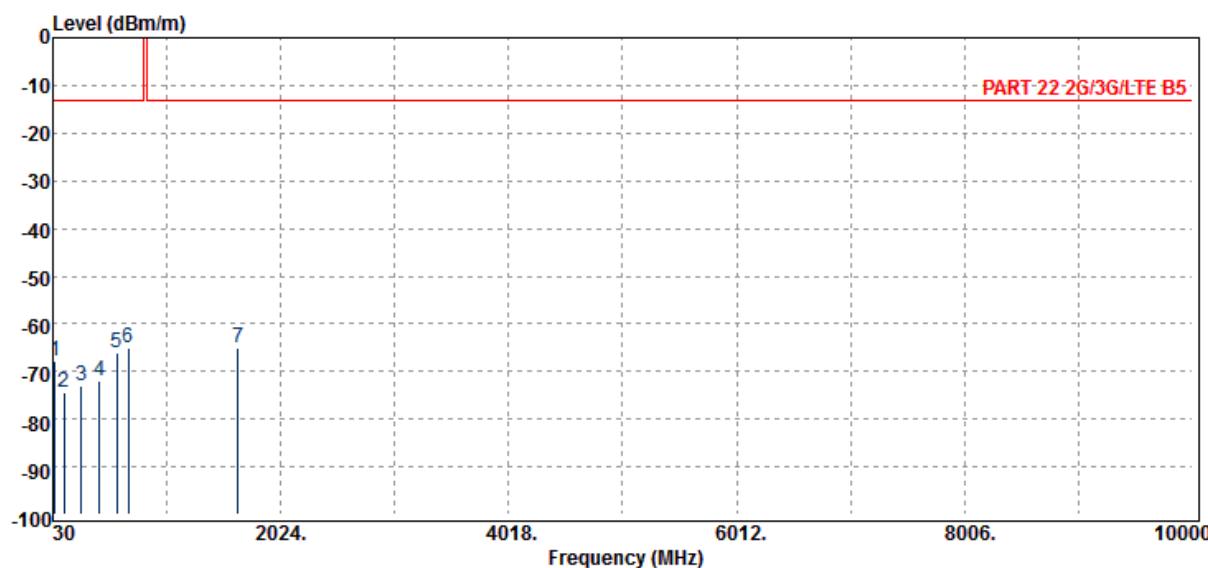
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**Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)**

Operation Band :LTE B5 Temp./Humi. :22 deg\_C / 61 RH  
 Fundamental Frequency :826.5 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 | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 48.43        | S               | -65.66      | -55.12                    | -55.12                    | -9.50                  | -1.04               | -13          | -52.66       |
| 124.09       | S               | -72.10      | -70.39                    | -70.39                    | -0.37                  | -1.34               | -13          | -59.10       |
| 278.32       | S               | -70.70      | -74.42                    | -74.42                    | 5.59                   | -1.87               | -13          | -57.70       |
| 438.37       | S               | -69.74      | -73.35                    | -73.35                    | 5.83                   | -2.22               | -13          | -56.74       |
| 592.60       | S               | -64.05      | -66.70                    | -66.70                    | 5.44                   | -2.79               | -13          | -51.05       |
| 692.51       | S               | -62.91      | -65.31                    | -65.31                    | 5.24                   | -2.84               | -13          | -49.91       |
| 1653.00      | H               | -63.05      | -68.08                    | -68.08                    | 9.27                   | -4.24               | -13          | -50.05       |

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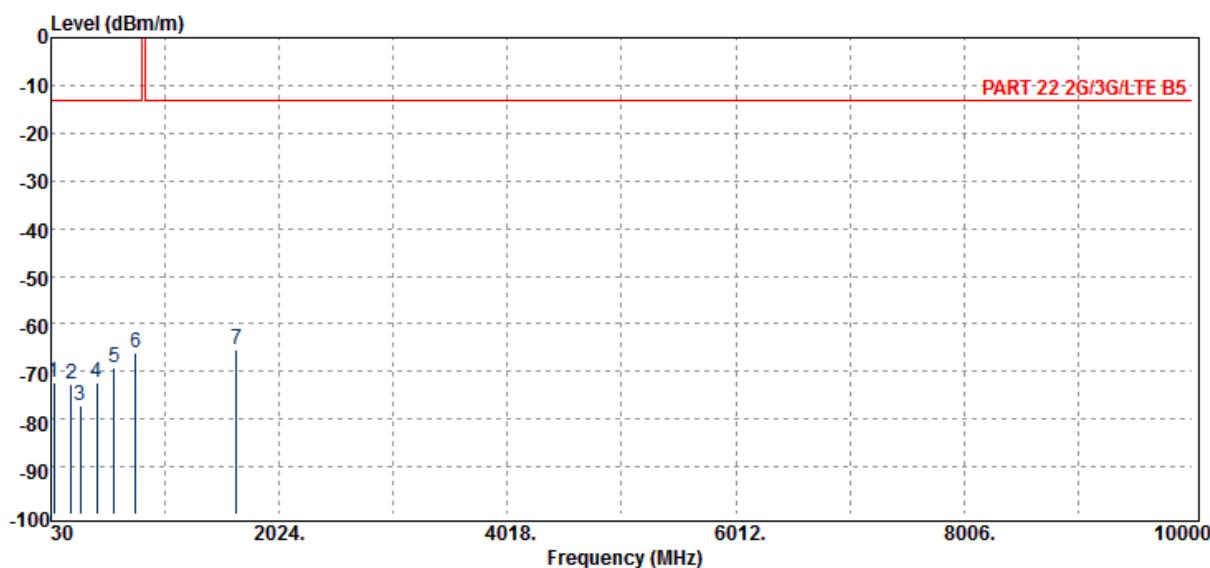
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Operation Band :LTE B5  
 Fundamental Frequency :826.5 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



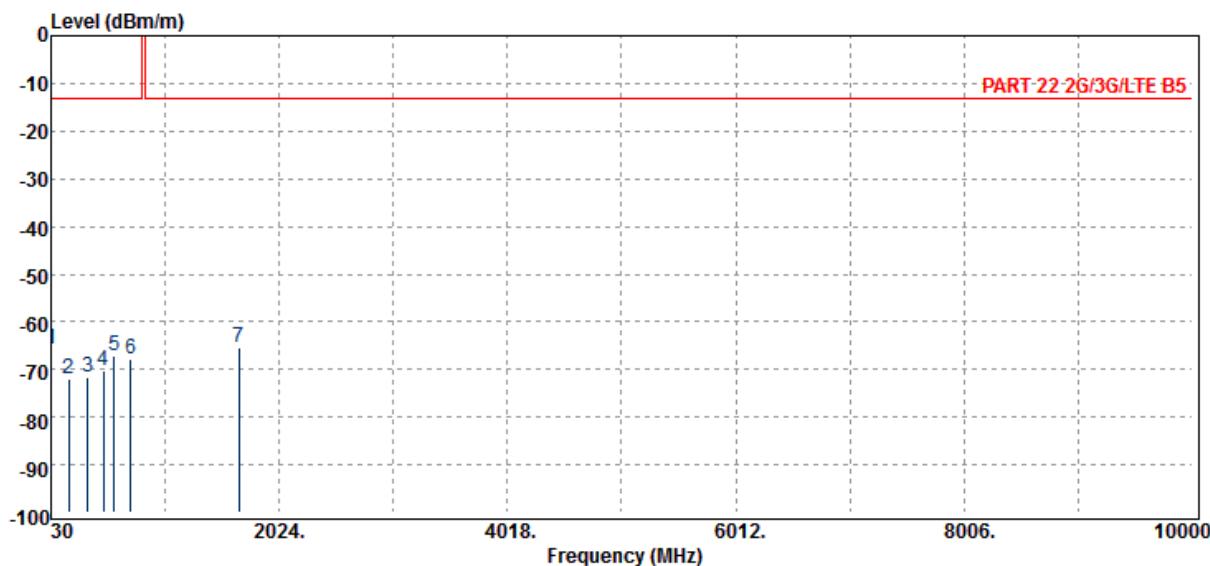
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 56.19        | S               | -70.23      | -61.62                    | -7.54                     | -1.07                  | -13                 | -57.23       |              |
| 203.63       | S               | -70.38      | -74.14                    | 5.41                      | -1.65                  | -13                 | -57.38       |              |
| 287.05       | S               | -74.93      | -78.60                    | 5.58                      | -1.91                  | -13                 | -61.93       |              |
| 430.61       | S               | -70.08      | -73.68                    | 5.86                      | -2.26                  | -13                 | -57.08       |              |
| 581.93       | S               | -67.16      | -69.88                    | 5.51                      | -2.79                  | -13                 | -54.16       |              |
| 770.11       | S               | -63.83      | -66.28                    | 5.40                      | -2.95                  | -13                 | -50.83       |              |
| 1653.00      | H               | -63.23      | -68.26                    | 9.27                      | -4.24                  | -13                 | -50.23       |              |

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Operation Band :LTE B5  
 Fundamental Frequency :836.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :VERTICAL



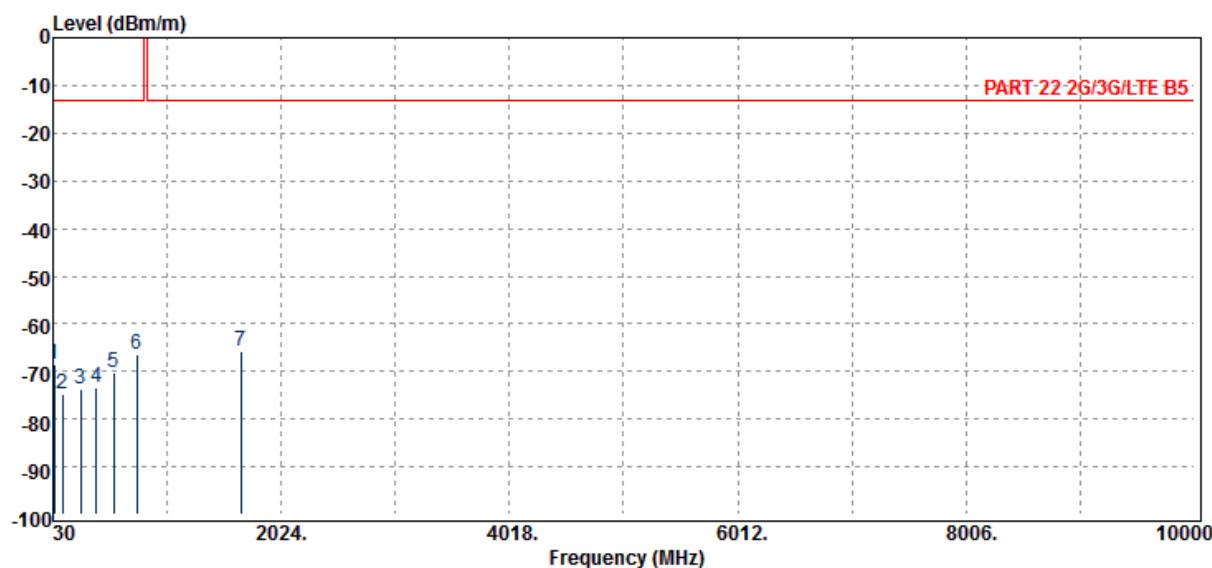
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 34.85        | S               | -63.70      | -51.21                    | -51.21                    | -11.52                 | -0.97               | -13          | -50.70       |
| 187.14       | S               | -69.98      | -72.63                    | -72.63                    | 4.24                   | -1.59               | -13          | -56.98       |
| 348.16       | S               | -69.56      | -73.53                    | -73.53                    | 6.00                   | -2.03               | -13          | -56.56       |
| 484.93       | S               | -68.06      | -71.76                    | -71.76                    | 5.95                   | -2.25               | -13          | -55.06       |
| 579.02       | S               | -65.13      | -67.88                    | -67.88                    | 5.53                   | -2.78               | -13          | -52.13       |
| 722.58       | S               | -65.58      | -67.77                    | -67.77                    | 5.28                   | -3.09               | -13          | -52.58       |
| 1673.00      | H               | -63.08      | -68.14                    | -68.14                    | 9.35                   | -4.29               | -13          | -50.08       |

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Operation Band :LTE B5  
 Fundamental Frequency :836.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



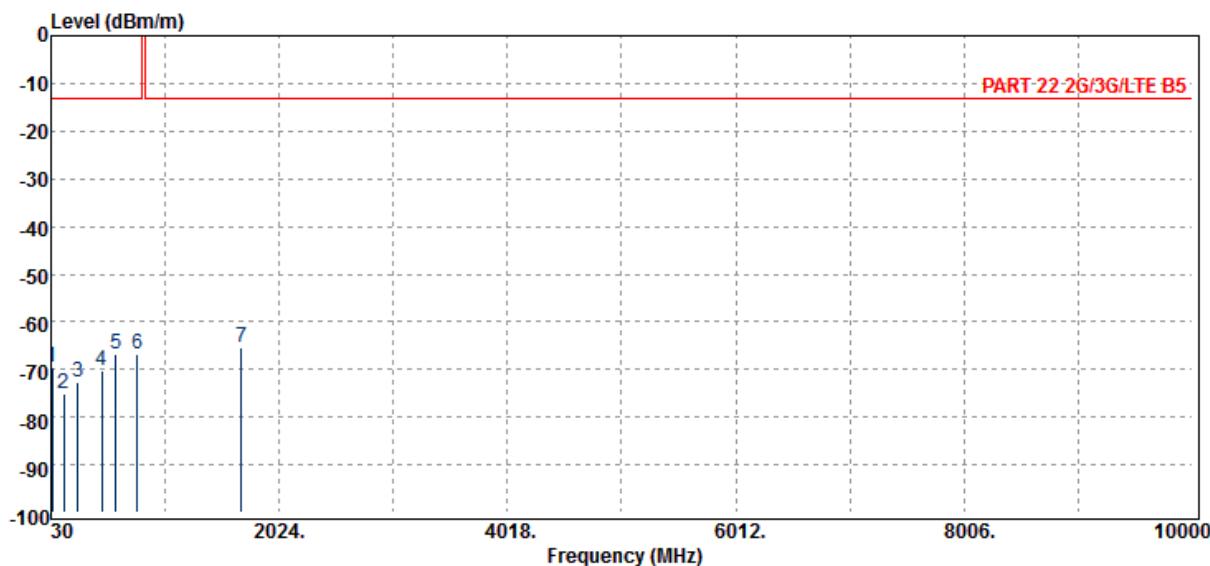
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 42.61        | S               | -66.23      | -54.68                    | -10.54                    | -1.01                  | -13                 | -53.23       |              |
| 112.45       | S               | -72.68      | -71.05                    | -0.33                     | -1.30                  | -13                 | -59.68       |              |
| 272.50       | S               | -71.51      | -75.31                    | 5.64                      | -1.84                  | -13                 | -58.51       |              |
| 407.33       | S               | -71.26      | -74.78                    | 5.94                      | -2.42                  | -13                 | -58.26       |              |
| 563.50       | S               | -68.02      | -70.90                    | 5.64                      | -2.76                  | -13                 | -55.02       |              |
| 764.29       | S               | -64.27      | -66.66                    | 5.38                      | -2.99                  | -13                 | -51.27       |              |
| 1673.00      | H               | -63.48      | -68.54                    | 9.35                      | -4.29                  | -13                 | -50.48       |              |

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Operation Band :LTE B5  
 Fundamental Frequency :846.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :VERTICAL



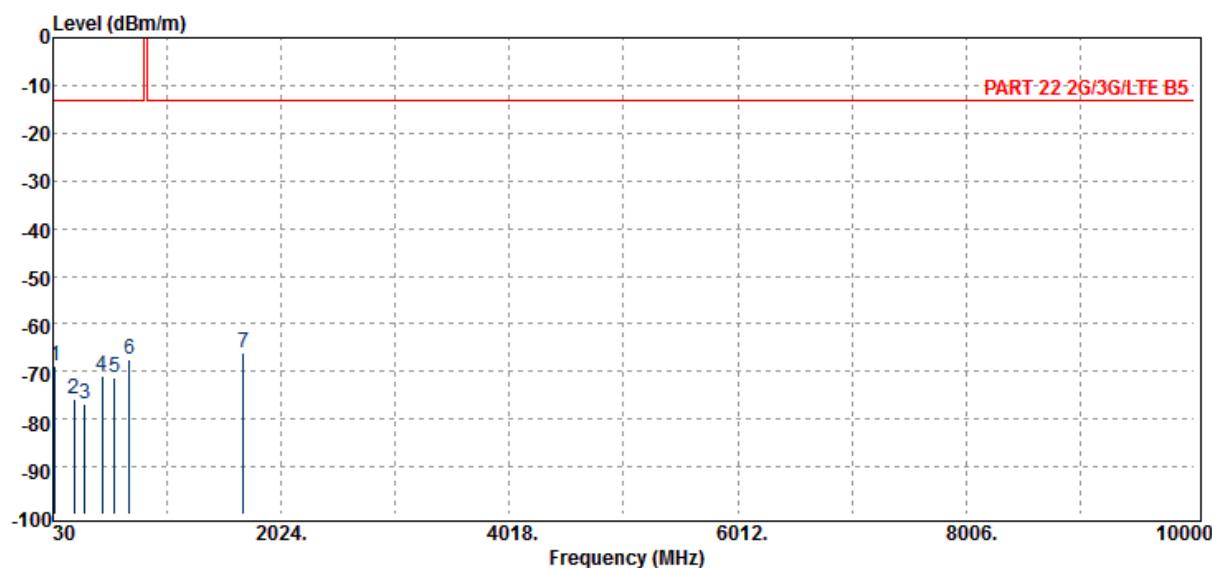
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                        | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | Antenna<br>Gain<br>dBi |                        |                     |              |              |
| 43.58        | S               | -67.47      | -56.06                    | -10.40                 | -1.01                  | -13                 | -54.47       |              |
| 143.49       | S               | -72.88      | -71.14                    | -0.33                  | -1.41                  | -13                 | -59.88       |              |
| 262.80       | S               | -70.46      | -74.45                    | 5.78                   | -1.79                  | -13                 | -57.46       |              |
| 476.20       | S               | -68.05      | -71.73                    | 5.91                   | -2.23                  | -13                 | -55.05       |              |
| 595.51       | S               | -64.72      | -67.37                    | 5.42                   | -2.77                  | -13                 | -51.72       |              |
| 785.63       | S               | -64.71      | -67.25                    | 5.45                   | -2.91                  | -13                 | -51.71       |              |
| 1693.00      | H               | -63.20      | -68.32                    | 9.42                   | -4.30                  | -13                 | -50.20       |              |

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Operation Band :LTE B5  
 Fundamental Frequency :846.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 48.43        | S               | -66.68      | -56.14                    | -56.14                    | -9.50                  | -1.04               | -13          | -53.68       |
| 217.21       | S               | -73.63      | -77.47                    | -77.47                    | 5.53                   | -1.69               | -13          | -60.63       |
| 308.39       | S               | -74.53      | -78.41                    | -78.41                    | 5.82                   | -1.94               | -13          | -61.53       |
| 458.74       | S               | -68.84      | -72.47                    | -72.47                    | 5.83                   | -2.20               | -13          | -55.84       |
| 566.41       | S               | -69.28      | -72.13                    | -72.13                    | 5.62                   | -2.77               | -13          | -56.28       |
| 697.36       | S               | -65.47      | -67.77                    | -67.77                    | 5.23                   | -2.93               | -13          | -52.47       |
| 1693.00      | H               | -63.86      | -68.98                    | -68.98                    | 9.42                   | -4.30               | -13          | -50.86       |

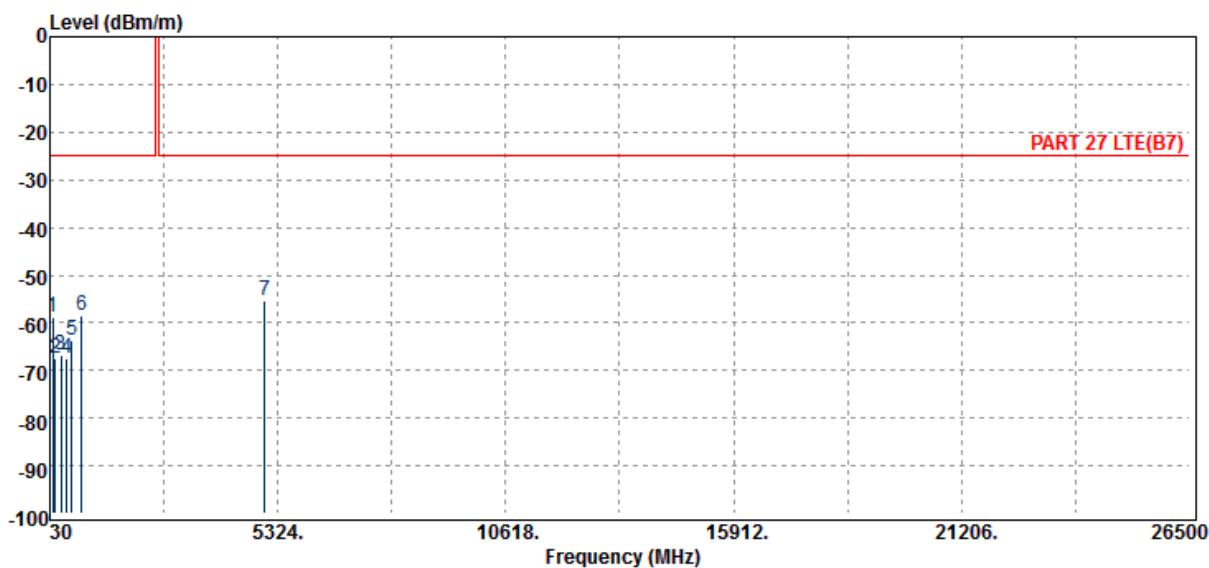
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**Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)**

Operation Band :LTE B7 Temp./Humi. :21 deg\_C / 62 RH  
 Fundamental Frequency :2507.5 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW Mode: 15M 16QAM RB  
 1,74  
 EUT Pol. :H Plane Measurement Pol. Antenna :VERTICAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG                  | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm |                        |                     |              |              |
| 94.99        | S               | -58.75      | -58.63              | 1.11                   | -1.23               | -25.00       | -33.75       |
| 158.04       | S               | -67.59      | -66.55              | 0.42                   | -1.47               | -25.00       | -42.59       |
| 294.81       | S               | -66.91      | -70.63              | 5.67                   | -1.94               | -25.00       | -41.91       |
| 419.94       | S               | -67.37      | -70.94              | 5.90                   | -2.33               | -25.00       | -42.37       |
| 537.31       | S               | -63.71      | -66.95              | 5.80                   | -2.57               | -25.00       | -38.71       |
| 772.05       | S               | -58.53      | -60.99              | 5.40                   | -2.94               | -25.00       | -33.53       |
| 5015.00      | H               | -55.26      | -60.15              | 12.71                  | -7.81               | -25.00       | -30.26       |

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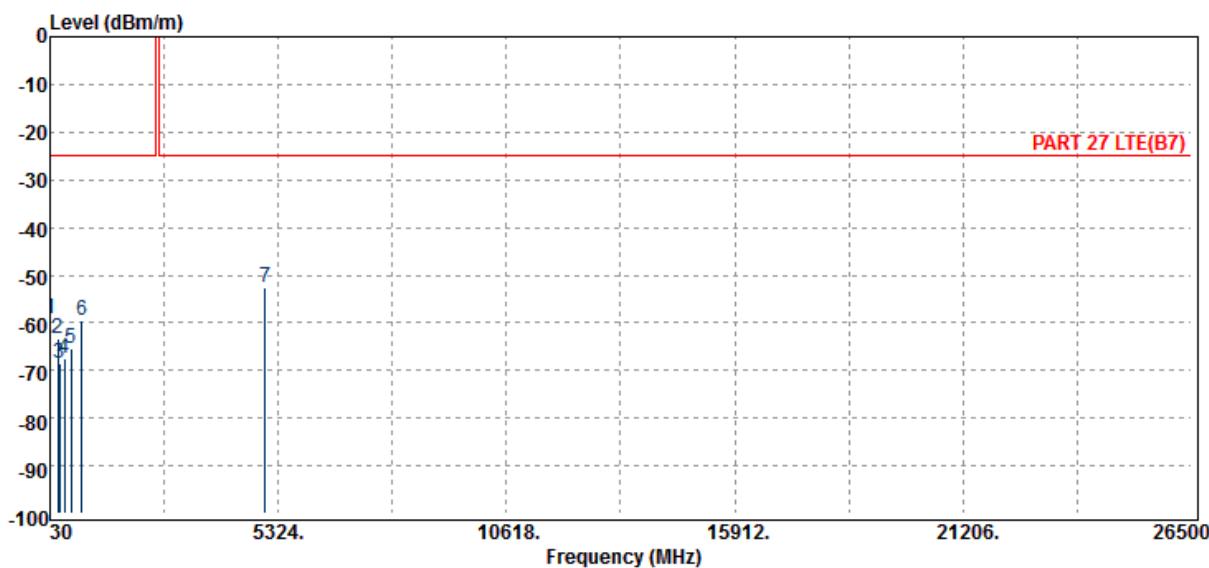
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Operation Band :LTE B7  
 Fundamental Frequency :2507.5 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 15M 16QAM RB 1,74  
 Measurement Pol. Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG                  | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm |                        |                     |              |              |
| 30.00        | S               | -59.08      | -45.49              | -12.63                 | -0.96               | -25.00       | -34.08       |
| 220.12       | S               | -63.27      | -67.04              | 5.48                   | -1.70               | -25.00       | -38.27       |
| 251.16       | S               | -68.47      | -72.33              | 5.62                   | -1.76               | -25.00       | -43.47       |
| 372.41       | S               | -67.40      | -71.18              | 5.99                   | -2.21               | -25.00       | -42.40       |
| 519.85       | S               | -65.34      | -68.85              | 5.90                   | -2.39               | -25.00       | -40.34       |
| 769.14       | S               | -59.64      | -62.07              | 5.39                   | -2.96               | -25.00       | -34.64       |
| 5015.00      | H               | -52.58      | -57.48              | 12.71                  | -7.81               | -25.00       | -27.58       |

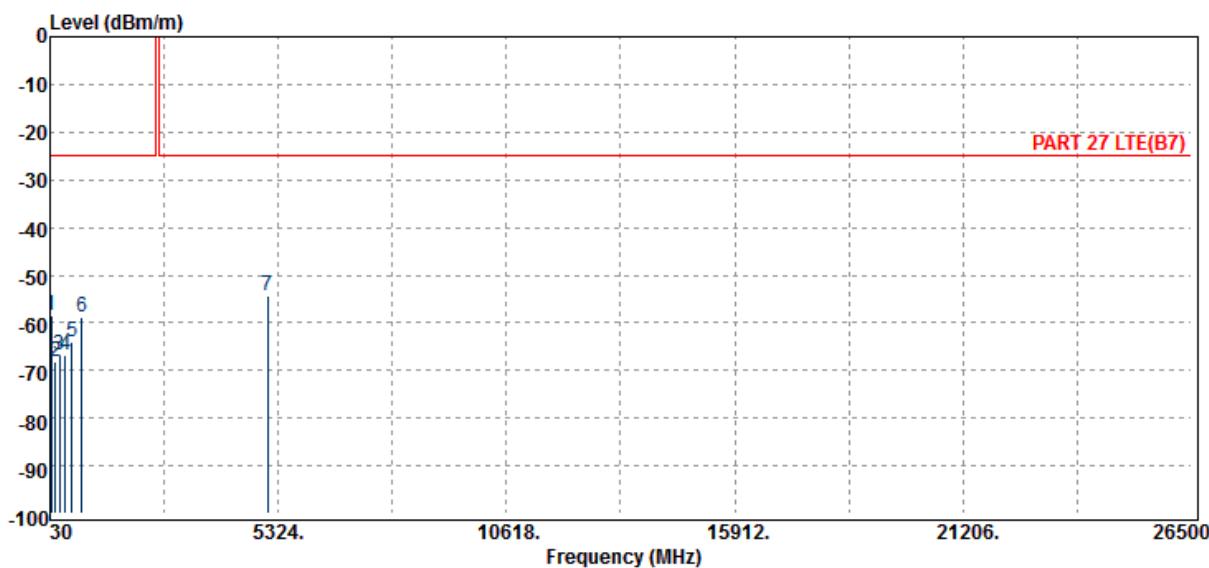
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Operation Band :LTE B7  
 Fundamental Frequency :2535.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 15M 16QAM RB 1,74  
 Measurement Pol. Antenna :VERTICAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG                  | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm |                        |                     |              |              |
| 53.28        | S               | -58.51      | -49.16              | -8.29                  | -1.06               | -25.00       | -33.51       |
| 153.19       | S               | -68.00      | -66.76              | 0.20                   | -1.44               | -25.00       | -43.00       |
| 241.46       | S               | -66.93      | -70.65              | 5.46                   | -1.74               | -25.00       | -41.93       |
| 390.84       | S               | -66.67      | -70.32              | 5.98                   | -2.33               | -25.00       | -41.67       |
| 529.55       | S               | -63.90      | -67.26              | 5.85                   | -2.49               | -25.00       | -38.90       |
| 769.14       | S               | -58.88      | -61.32              | 5.39                   | -2.96               | -25.00       | -33.88       |
| 5070.00      | H               | -54.29      | -59.16              | 12.73                  | -7.86               | -25.00       | -29.29       |

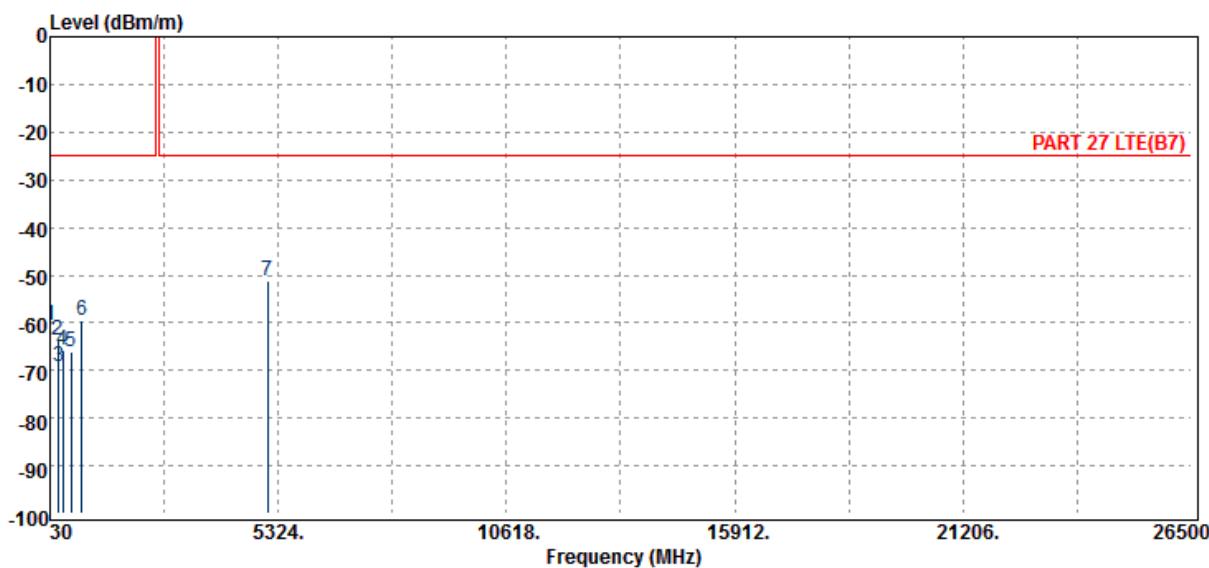
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Operation Band :LTE B7  
 Fundamental Frequency :2535.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 15M 16QAM RB 1,74  
 Measurement Pol. Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG                  | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm |                        |                     |              |              |
| 30.00        | S               | -60.50      | -46.91              | -12.63                 | -0.96               | -25.00       | -35.50       |
| 216.24       | S               | -63.59      | -67.45              | 5.55                   | -1.69               | -25.00       | -38.59       |
| 240.49       | S               | -69.17      | -72.87              | 5.44                   | -1.74               | -25.00       | -44.17       |
| 335.55       | S               | -65.81      | -69.83              | 5.95                   | -1.93               | -25.00       | -40.81       |
| 516.94       | S               | -66.10      | -69.65              | 5.91                   | -2.37               | -25.00       | -41.10       |
| 769.14       | S               | -59.40      | -61.84              | 5.39                   | -2.96               | -25.00       | -34.40       |
| 5070.00      | H               | -51.09      | -55.96              | 12.73                  | -7.86               | -25.00       | -26.09       |

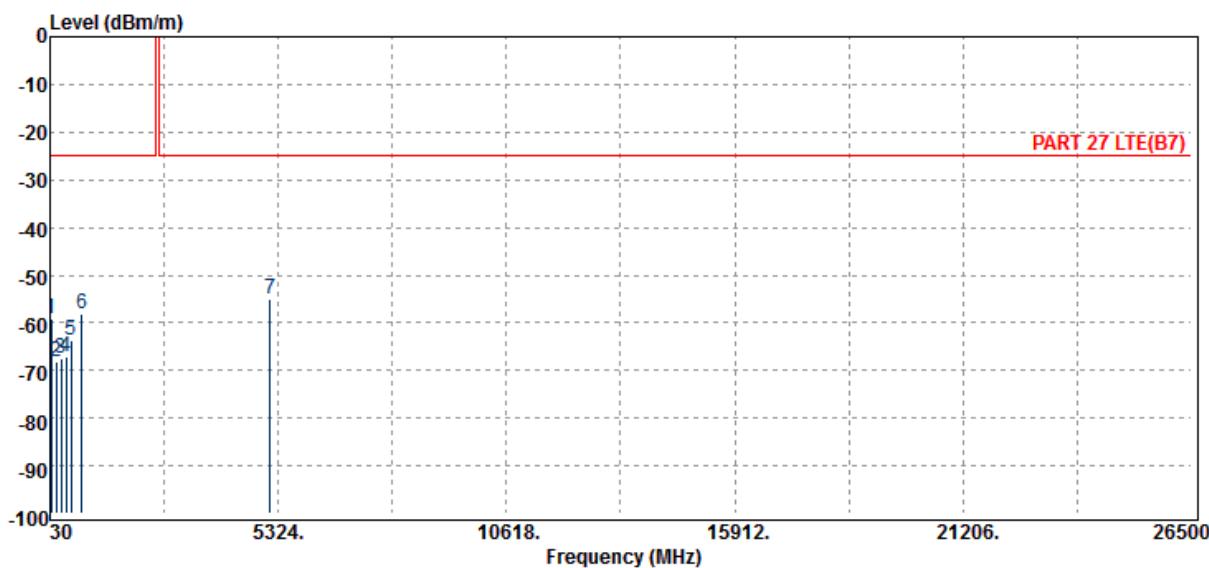
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Operation Band :LTE B7  
 Fundamental Frequency :2562.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 15M 16QAM RB 1,74  
 Measurement Pol. Antenna :VERTICAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG                  | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm |                        |                     |              |              |
| 52.31        | S               | -59.17      | -49.56              | -8.55                  | -1.05               | -25.00       | -34.17       |
| 178.41       | S               | -68.14      | -69.34              | 2.76                   | -1.55               | -25.00       | -43.14       |
| 288.99       | S               | -67.51      | -71.17              | 5.58                   | -1.92               | -25.00       | -42.51       |
| 396.66       | S               | -67.16      | -70.77              | 5.97                   | -2.36               | -25.00       | -42.16       |
| 512.09       | S               | -63.50      | -67.09              | 5.94                   | -2.35               | -25.00       | -38.50       |
| 773.99       | S               | -58.07      | -60.56              | 5.41                   | -2.93               | -25.00       | -33.07       |
| 5125.00      | H               | -54.96      | -59.81              | 12.75                  | -7.91               | -25.00       | -29.96       |

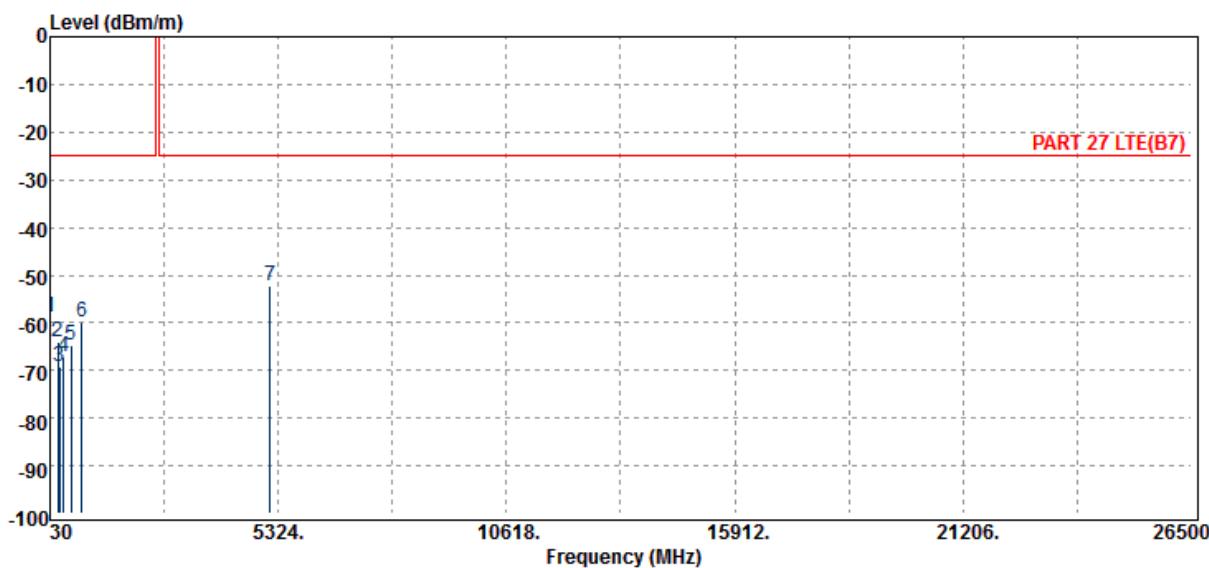
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Operation Band :LTE B7  
 Fundamental Frequency :2562.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane

Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Mode: 15M 16QAM RB 1,74  
 Measurement Pol. Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG                  | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm |                        |                     |              |              |
| 30.00        | S               | -58.71      | -45.12              | -12.63                 | -0.96               | -25.00       | -33.71       |
| 220.12       | S               | -64.14      | -67.91              | 5.48                   | -1.70               | -25.00       | -39.14       |
| 243.40       | S               | -69.11      | -72.85              | 5.49                   | -1.75               | -25.00       | -44.11       |
| 340.40       | S               | -67.07      | -71.07              | 5.97                   | -1.97               | -25.00       | -42.07       |
| 513.06       | S               | -64.80      | -68.38              | 5.94                   | -2.35               | -25.00       | -39.80       |
| 772.05       | S               | -59.82      | -62.28              | 5.40                   | -2.94               | -25.00       | -34.82       |
| 5125.00      | H               | -52.17      | -57.02              | 12.75                  | -7.91               | -25.00       | -27.17       |

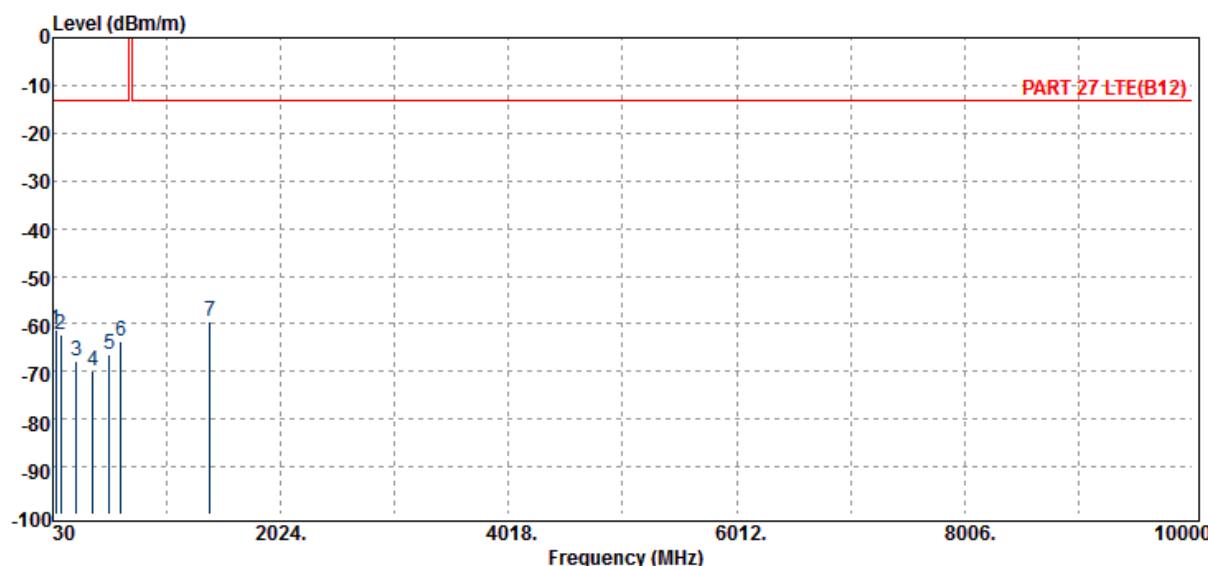
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**Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)**

Operation Band :LTE B12 Temp./Humi. :21 deg\_C / 62 RH  
 Fundamental Frequency :700.5 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane Measurement Pol. Antenna :VERTICAL



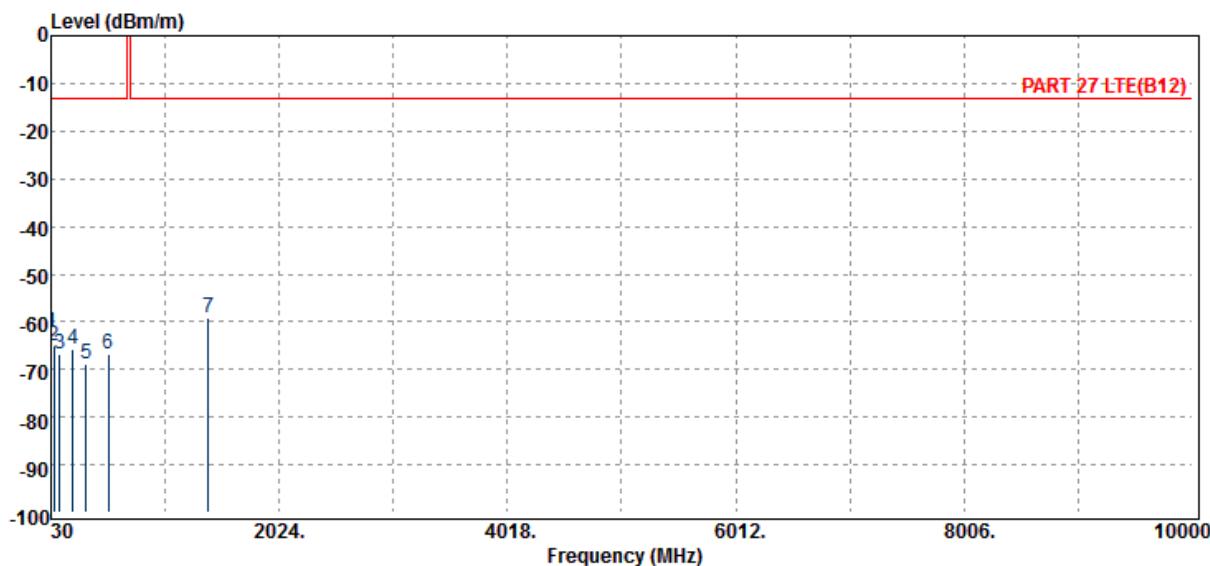
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 55.22        | S               | -59.07      | -50.23                    | -50.23                    | -7.78                  | -1.06               | -13          | -46.07       |
| 94.99        | S               | -60.06      | -59.94                    | -59.94                    | 1.11                   | -1.23               | -13          | -47.06       |
| 236.61       | S               | -65.54      | -69.19                    | -69.19                    | 5.38                   | -1.73               | -13          | -52.54       |
| 379.20       | S               | -67.76      | -71.49                    | -71.49                    | 5.99                   | -2.26               | -13          | -54.76       |
| 522.76       | S               | -64.20      | -67.66                    | -67.66                    | 5.88                   | -2.42               | -13          | -51.20       |
| 621.70       | S               | -61.44      | -64.26                    | -64.26                    | 5.35                   | -2.53               | -13          | -48.44       |
| 1401.00      | H               | -57.44      | -63.98                    | -63.98                    | 10.43                  | -3.89               | -13          | -44.44       |

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Operation Band :LTE B12  
 Fundamental Frequency :700.5 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



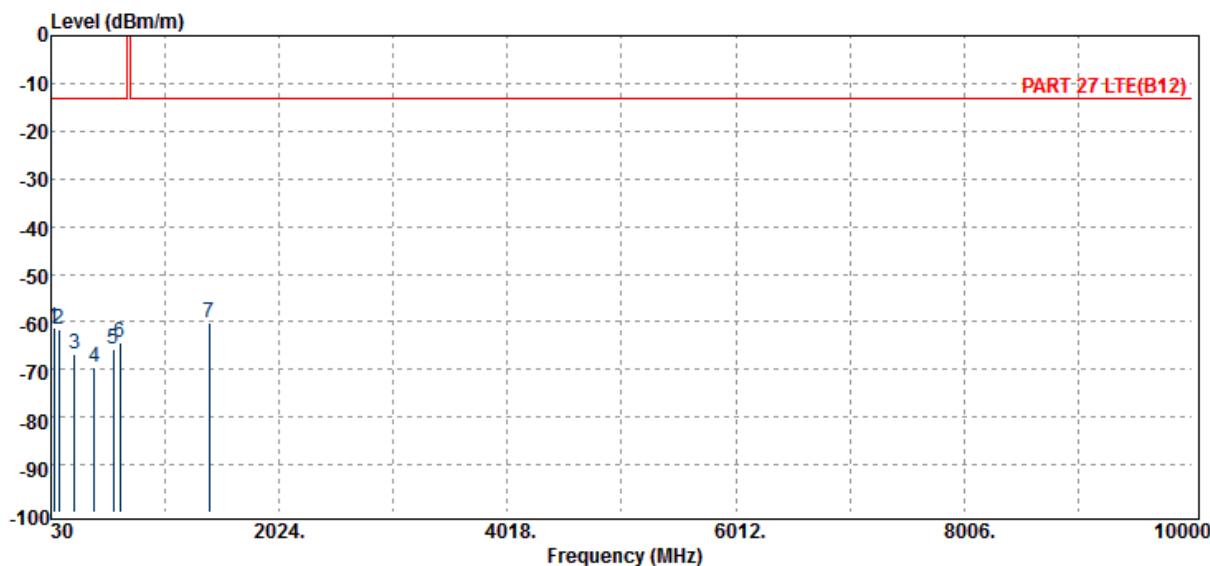
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 30.00        | S               | -60.28      | -46.69                    | -46.69                    | -12.63                 | -0.96               | -13          | -47.28       |
| 54.25        | S               | -62.78      | -53.69                    | -53.69                    | -8.03                  | -1.06               | -13          | -49.78       |
| 102.75       | S               | -64.63      | -63.65                    | -63.65                    | 0.28                   | -1.26               | -13          | -51.63       |
| 219.15       | S               | -63.65      | -67.44                    | -67.44                    | 5.49                   | -1.70               | -13          | -50.65       |
| 337.49       | S               | -66.77      | -70.77                    | -70.77                    | 5.95                   | -1.95               | -13          | -53.77       |
| 529.55       | S               | -64.71      | -68.07                    | -68.07                    | 5.85                   | -2.49               | -13          | -51.71       |
| 1401.00      | H               | -57.03      | -63.57                    | -63.57                    | 10.43                  | -3.89               | -13          | -44.03       |

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Operation Band :LTE B12  
 Fundamental Frequency :707.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :VERTICAL



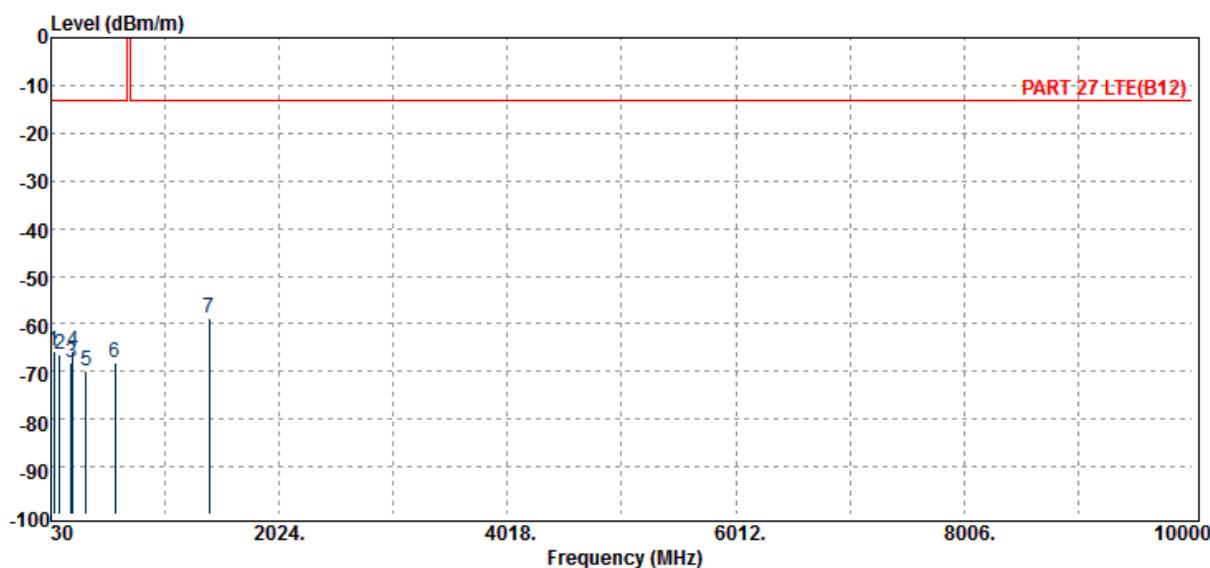
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 55.22        | S               | -59.03      | -50.19                    | -50.19                    | -7.78                  | -1.06               | -13          | -46.03       |
| 94.99        | S               | -59.59      | -59.47                    | -59.47                    | 1.11                   | -1.23               | -13          | -46.59       |
| 236.61       | S               | -64.79      | -68.44                    | -68.44                    | 5.38                   | -1.73               | -13          | -51.79       |
| 408.30       | S               | -67.33      | -70.86                    | -70.86                    | 5.94                   | -2.41               | -13          | -54.33       |
| 578.05       | S               | -63.58      | -66.34                    | -66.34                    | 5.54                   | -2.78               | -13          | -50.58       |
| 634.31       | S               | -62.25      | -65.12                    | -65.12                    | 5.32                   | -2.45               | -13          | -49.25       |
| 1415.00      | H               | -58.08      | -64.66                    | -64.66                    | 10.49                  | -3.91               | -13          | -45.08       |

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Operation Band :LTE B12  
 Fundamental Frequency :707.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



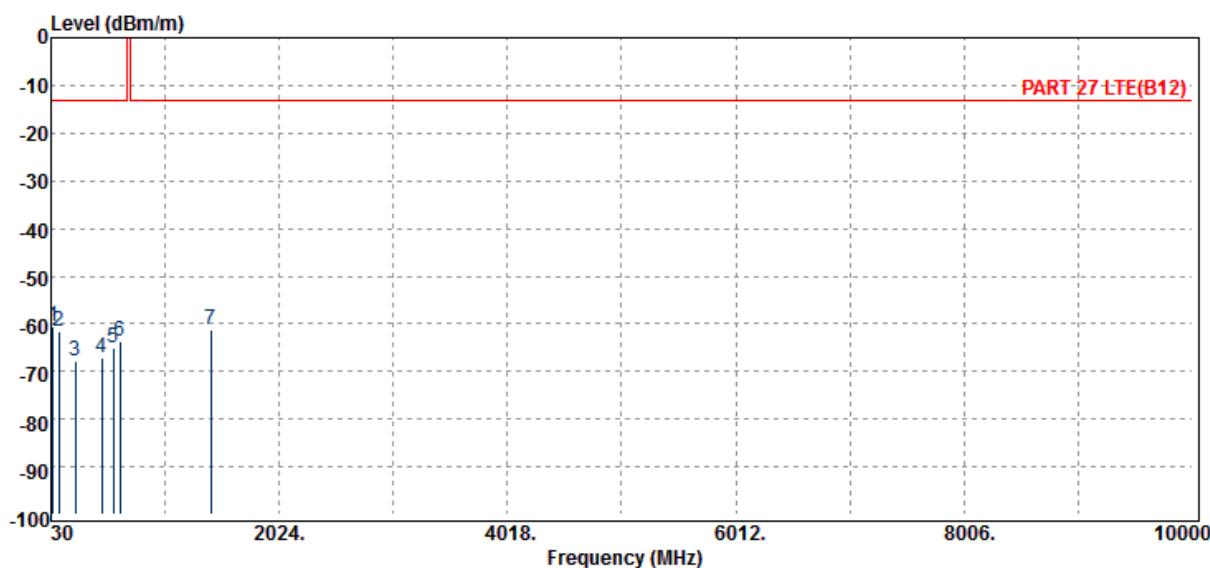
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 54.25        | S               | -63.66      | -54.57                    | -54.57                    | -8.03                  | -1.06               | -13          | -50.66       |
| 102.75       | S               | -64.21      | -63.23                    | -63.23                    | 0.28                   | -1.26               | -13          | -51.21       |
| 204.60       | S               | -65.92      | -69.72                    | -69.72                    | 5.45                   | -1.65               | -13          | -52.92       |
| 222.06       | S               | -63.46      | -67.18                    | -67.18                    | 5.43                   | -1.71               | -13          | -50.46       |
| 338.46       | S               | -67.64      | -71.65                    | -71.65                    | 5.96                   | -1.95               | -13          | -54.64       |
| 585.81       | S               | -65.95      | -68.65                    | -68.65                    | 5.49                   | -2.79               | -13          | -52.95       |
| 1415.00      | H               | -56.63      | -63.21                    | -63.21                    | 10.49                  | -3.91               | -13          | -43.63       |

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Operation Band :LTE B12  
 Fundamental Frequency :714.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



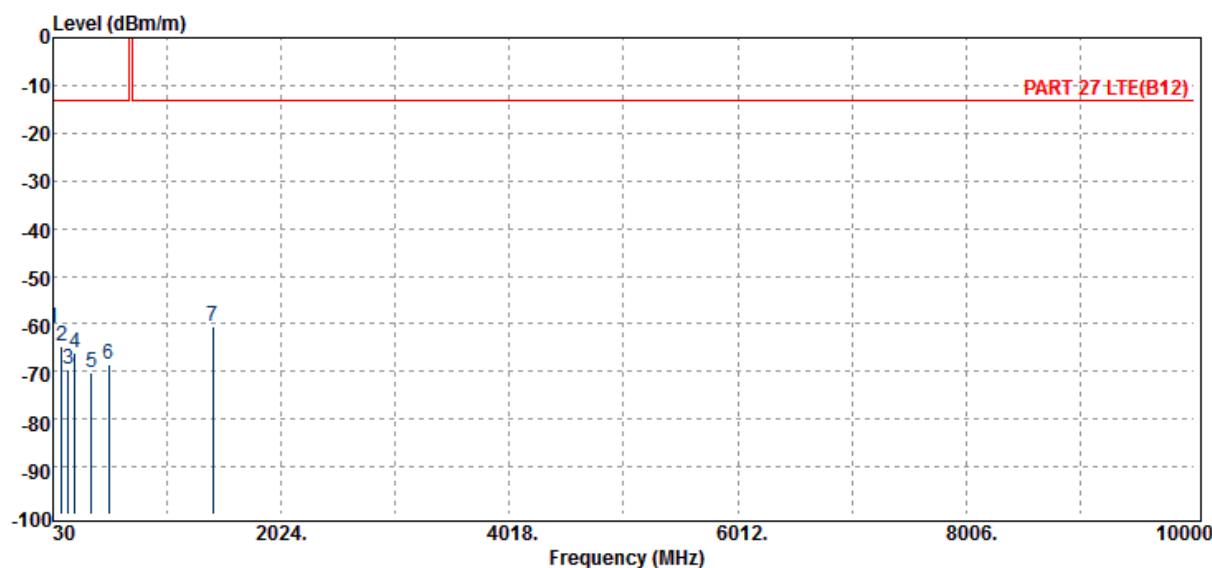
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 51.34        | S               | -58.31      | -48.44                    | -8.82                     | -1.05                  | -13                 | -45.31       |              |
| 94.99        | S               | -59.47      | -59.35                    | 1.11                      | -1.23                  | -13                 | -46.47       |              |
| 240.49       | S               | -65.51      | -69.21                    | 5.44                      | -1.74                  | -13                 | -52.51       |              |
| 473.29       | S               | -64.98      | -68.65                    | 5.90                      | -2.23                  | -13                 | -51.98       |              |
| 578.05       | S               | -62.86      | -65.62                    | 5.54                      | -2.78                  | -13                 | -49.86       |              |
| 634.31       | S               | -61.66      | -64.53                    | 5.32                      | -2.45                  | -13                 | -48.66       |              |
| 1429.00      | H               | -58.95      | -65.56                    | 10.55                     | -3.94                  | -13                 | -45.95       |              |

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Operation Band :LTE B12  
 Fundamental Frequency :714.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 30.00        | S               | -58.93      | -45.34                    | -45.34                    | -12.63                 | -0.96               | -13          | -45.93       |
| 103.72       | S               | -62.52      | -61.46                    | -61.46                    | 0.20                   | -1.26               | -13          | -49.52       |
| 160.95       | S               | -67.51      | -66.61                    | -66.61                    | 0.58                   | -1.48               | -13          | -54.51       |
| 219.15       | S               | -64.05      | -67.84                    | -67.84                    | 5.49                   | -1.70               | -13          | -51.05       |
| 362.71       | S               | -68.15      | -72.00                    | -72.00                    | 6.00                   | -2.15               | -13          | -55.15       |
| 517.91       | S               | -66.32      | -69.86                    | -69.86                    | 5.91                   | -2.37               | -13          | -53.32       |
| 1429.00      | H               | -58.34      | -64.95                    | -64.95                    | 10.55                  | -3.94               | -13          | -45.34       |

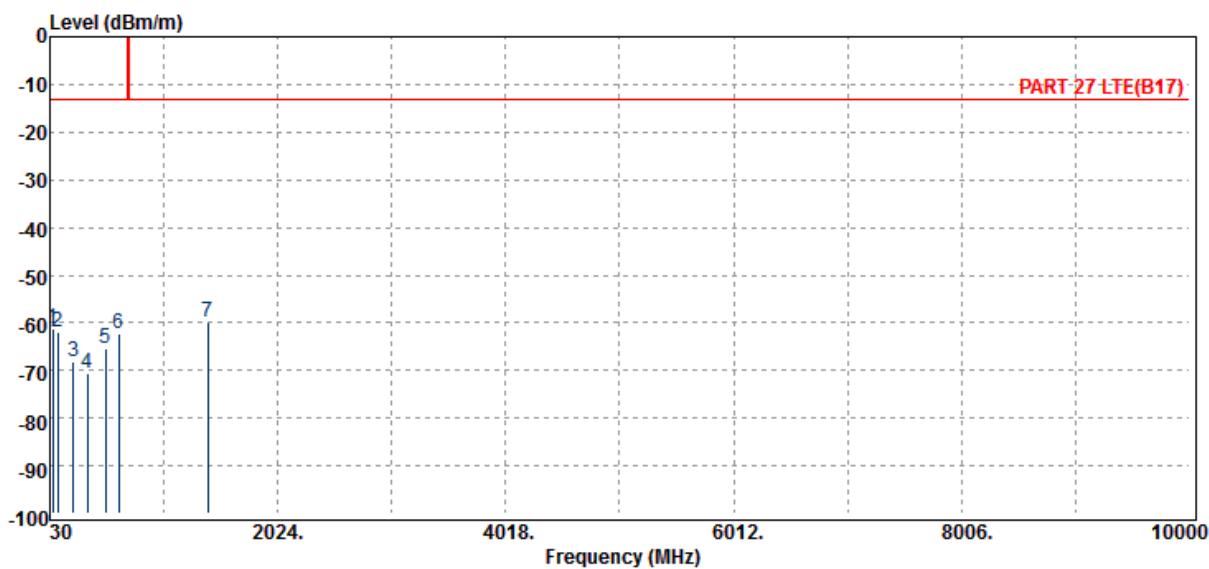
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## Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

|                       |            |                  |                   |
|-----------------------|------------|------------------|-------------------|
| Operation Band        | :LTE B17   | Temp./Humi.      | :21 deg_C / 62 RH |
| Fundamental Frequency | :706.5 MHz | Engineer         | :Tin              |
| Operation Mode        | :Tx CH LOW |                  |                   |
| EUT Pol.              | :E2 Plane  | Measurement Pol. | Antenna :VERTICAL |



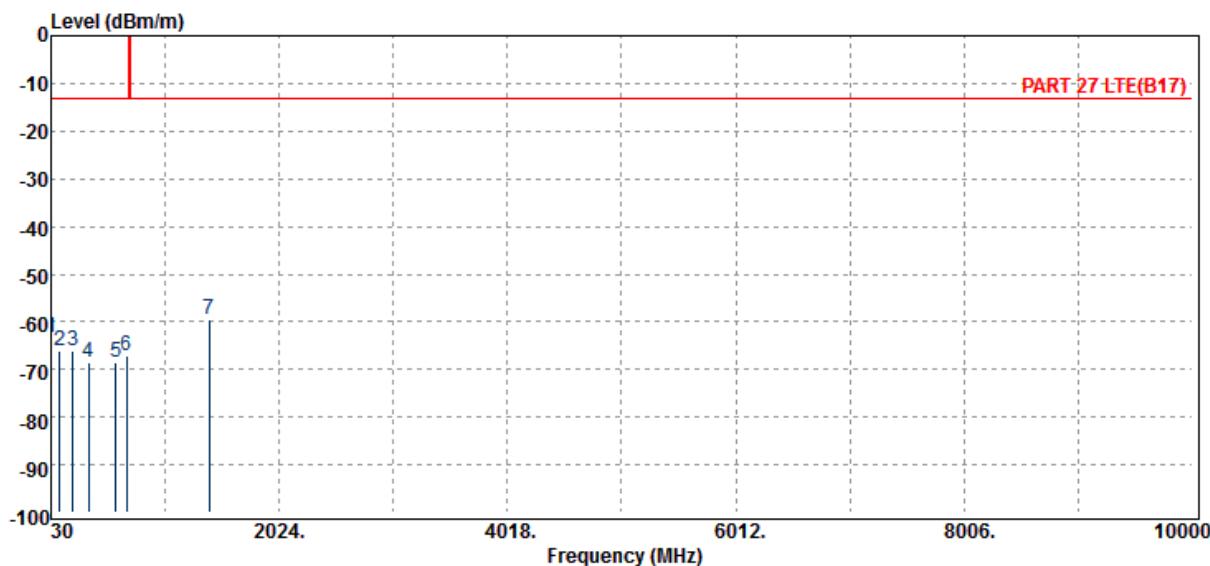
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG                  | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm |                        |                     |              |              |
| 53.28        | S               | -59.00      | -49.65              | -8.29                  | -1.06               | -13          | -46.00       |
| 94.99        | S               | -59.83      | -59.71              | 1.11                   | -1.23               | -13          | -46.83       |
| 233.70       | S               | -66.04      | -69.64              | 5.33                   | -1.73               | -13          | -53.04       |
| 356.89       | S               | -68.45      | -72.36              | 6.01                   | -2.10               | -13          | -55.45       |
| 519.85       | S               | -63.40      | -66.91              | 5.90                   | -2.39               | -13          | -50.40       |
| 633.34       | S               | -60.26      | -63.12              | 5.32                   | -2.46               | -13          | -47.26       |
| 1413.00      | H               | -57.78      | -64.35              | 10.48                  | -3.91               | -13          | -44.78       |

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Operation Band :LTE B17  
 Fundamental Frequency :706.5 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



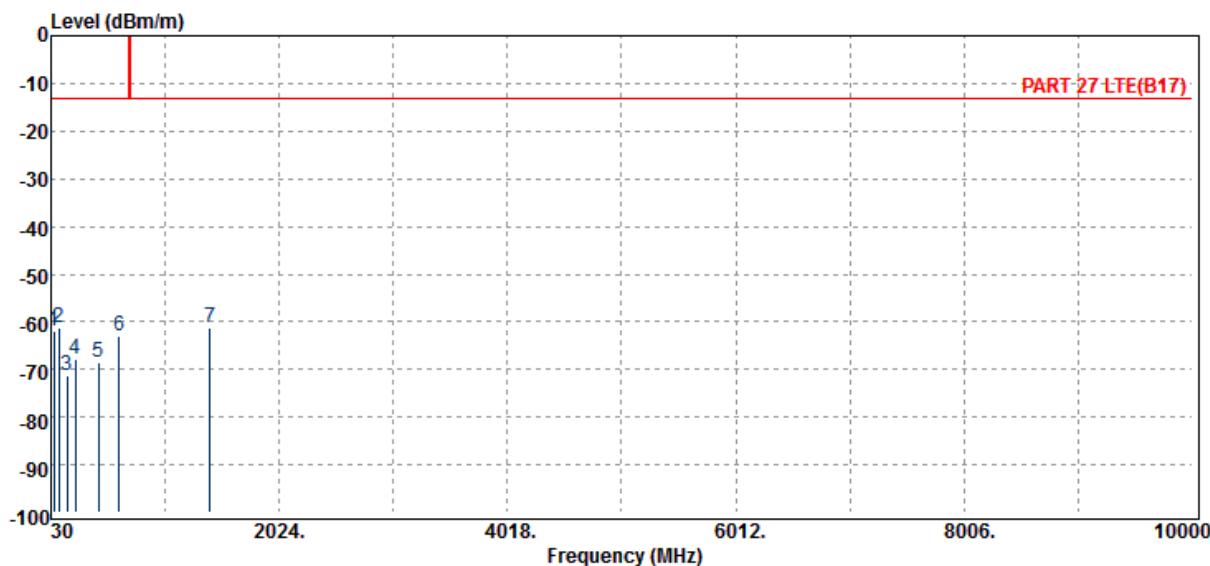
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 30.00        | S               | -61.21      | -47.62                    | -47.62                    | -12.63                 | -0.96               | -13          | -48.21       |
| 104.69       | S               | -63.92      | -62.76                    | -62.76                    | 0.11                   | -1.27               | -13          | -50.92       |
| 222.06       | S               | -63.78      | -67.50                    | -67.50                    | 5.43                   | -1.71               | -13          | -50.78       |
| 357.86       | S               | -66.53      | -70.42                    | -70.42                    | 6.00                   | -2.11               | -13          | -53.53       |
| 594.54       | S               | -66.30      | -68.95                    | -68.95                    | 5.43                   | -2.78               | -13          | -53.30       |
| 686.69       | S               | -64.92      | -67.43                    | -67.43                    | 5.25                   | -2.74               | -13          | -51.92       |
| 1413.00      | H               | -57.31      | -63.88                    | -63.88                    | 10.48                  | -3.91               | -13          | -44.31       |

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Operation Band :LTE B17  
 Fundamental Frequency :710.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



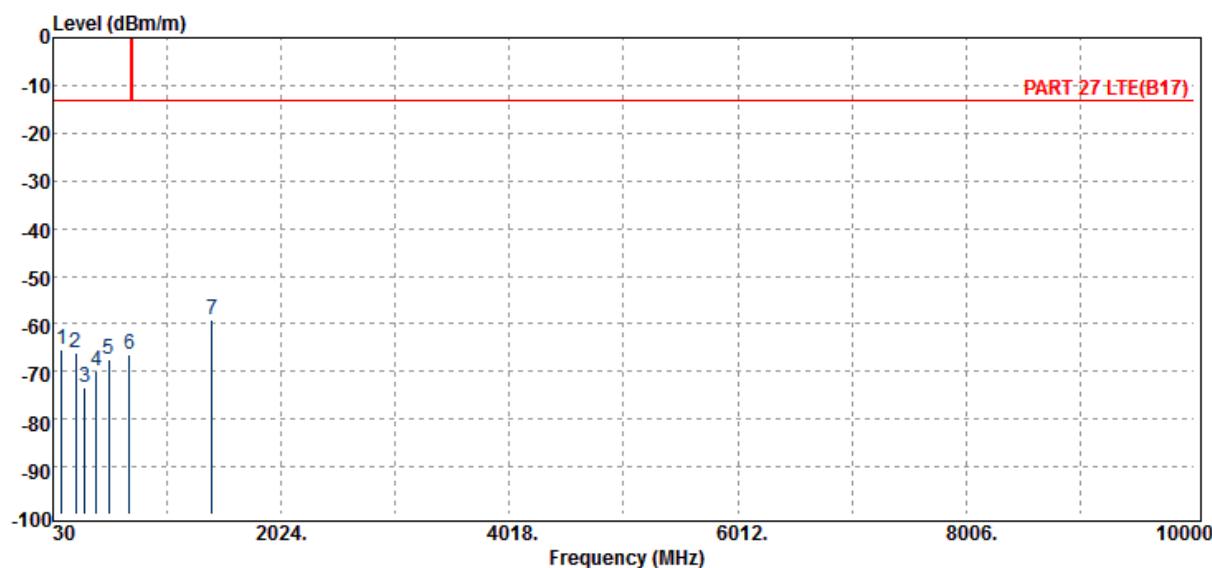
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 54.25        | S               | -59.95      | -50.86                    | -50.86                    | -8.03                  | -1.06               | -13          | -46.95       |
| 95.96        | S               | -59.13      | -58.89                    | -58.89                    | 0.99                   | -1.23               | -13          | -46.13       |
| 172.59       | S               | -69.15      | -69.33                    | -69.33                    | 1.71                   | -1.53               | -13          | -56.15       |
| 245.34       | S               | -65.61      | -69.38                    | -69.38                    | 5.52                   | -1.75               | -13          | -52.61       |
| 447.10       | S               | -66.22      | -69.83                    | -69.83                    | 5.80                   | -2.19               | -13          | -53.22       |
| 626.55       | S               | -60.88      | -63.73                    | -63.73                    | 5.34                   | -2.49               | -13          | -47.88       |
| 1420.00      | H               | -59.14      | -65.73                    | -65.73                    | 10.51                  | -3.92               | -13          | -46.14       |

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Operation Band :LTE B17  
 Fundamental Frequency :710.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



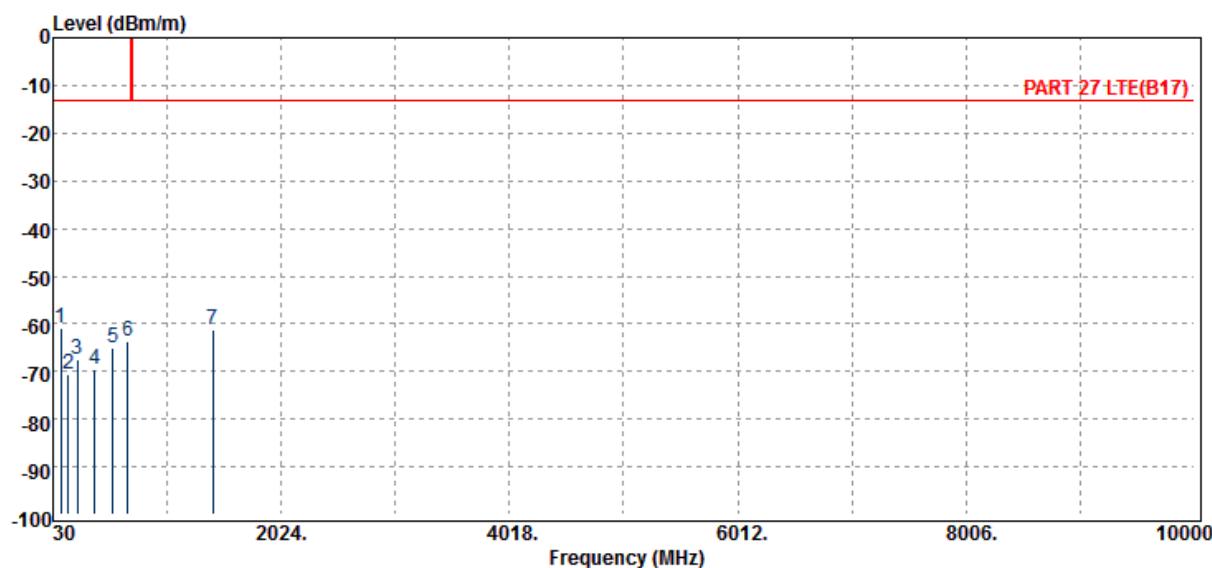
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 104.69       | S               | -63.18      | -62.02                    | 0.11                      | -1.27                  | -13                 | -50.18       |              |
| 231.76       | S               | -63.79      | -67.35                    | 5.29                      | -1.73                  | -13                 | -50.79       |              |
| 308.39       | S               | -71.24      | -75.12                    | 5.82                      | -1.94                  | -13                 | -58.24       |              |
| 410.24       | S               | -67.86      | -71.39                    | 5.93                      | -2.40                  | -13                 | -54.86       |              |
| 519.85       | S               | -65.38      | -68.89                    | 5.90                      | -2.39                  | -13                 | -52.38       |              |
| 696.39       | S               | -64.16      | -66.49                    | 5.24                      | -2.91                  | -13                 | -51.16       |              |
| 1420.00      | H               | -56.99      | -63.58                    | 10.51                     | -3.92                  | -13                 | -43.99       |              |

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Operation Band :LTE B17  
 Fundamental Frequency :713.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :VERTICAL



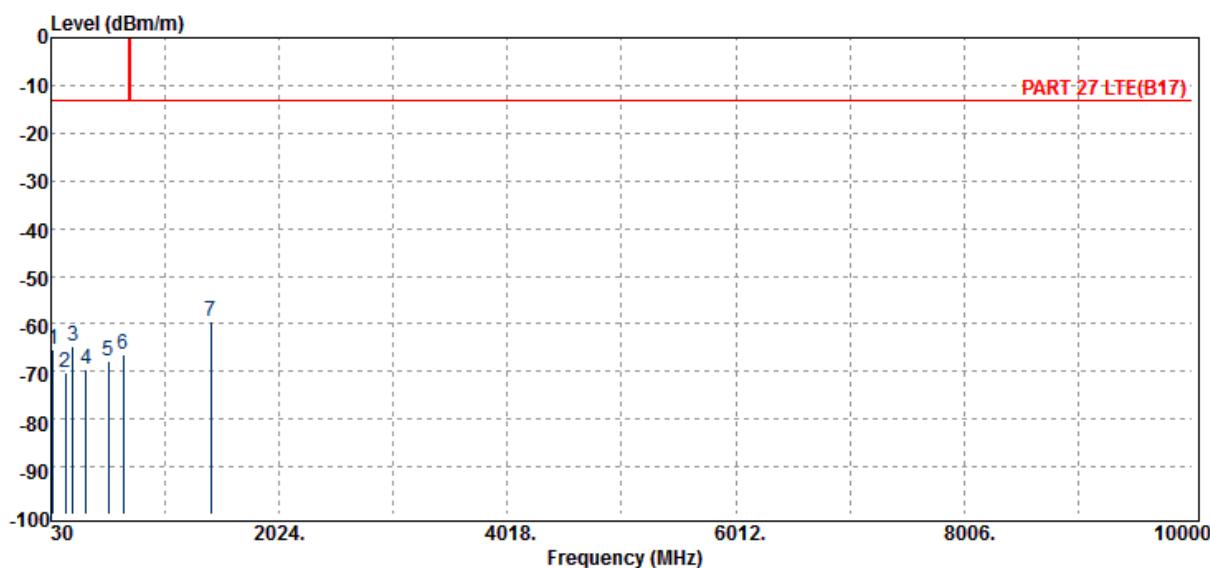
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 95.96        | S               | -58.80      | -58.56                    | 0.99                      | -1.23                  | -13                 | -45.80       |              |
| 165.80       | S               | -68.42      | -67.86                    | 0.94                      | -1.50                  | -13                 | -55.42       |              |
| 243.40       | S               | -65.38      | -69.12                    | 5.49                      | -1.75                  | -13                 | -52.38       |              |
| 395.69       | S               | -67.48      | -71.10                    | 5.97                      | -2.35                  | -13                 | -54.48       |              |
| 555.74       | S               | -62.81      | -65.76                    | 5.70                      | -2.75                  | -13                 | -49.81       |              |
| 684.75       | S               | -61.58      | -64.13                    | 5.25                      | -2.70                  | -13                 | -48.58       |              |
| 1427.00      | H               | -59.05      | -65.66                    | 10.54                     | -3.93                  | -13                 | -46.05       |              |

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Operation Band :LTE B17  
 Fundamental Frequency :713.5 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 46.49        | S               | -63.35      | -52.43                    | -9.89                     | -1.03                  | -13                 | -50.35       |              |
| 154.16       | S               | -68.24      | -67.04                    | 0.25                      | -1.45                  | -13                 | -55.24       |              |
| 224.00       | S               | -62.60      | -66.28                    | 5.39                      | -1.71                  | -13                 | -49.60       |              |
| 335.55       | S               | -67.27      | -71.29                    | 5.95                      | -1.93                  | -13                 | -54.27       |              |
| 531.49       | S               | -65.63      | -68.96                    | 5.84                      | -2.51                  | -13                 | -52.63       |              |
| 660.50       | S               | -64.38      | -67.28                    | 5.28                      | -2.38                  | -13                 | -51.38       |              |
| 1427.00      | H               | -57.53      | -64.14                    | 10.54                     | -3.93                  | -13                 | -44.53       |              |

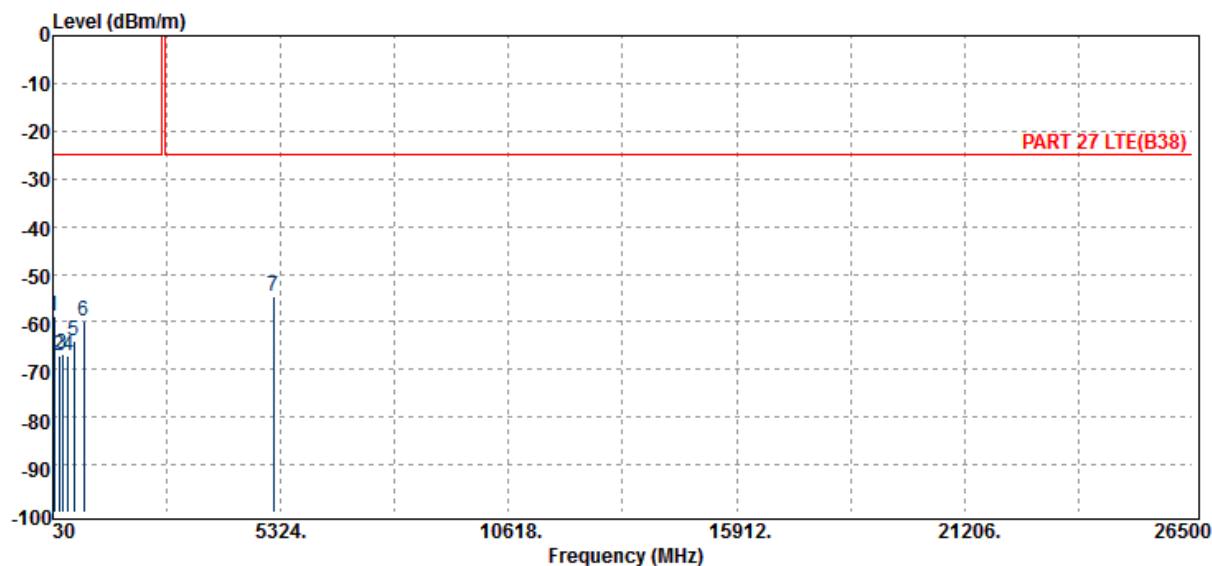
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**Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)**

Operation Band :LTE B38 Temp./Humi. :22 deg\_C / 61 RH  
 Fundamental Frequency :2575 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW Mode :10M QPSK RB 1,49  
 EUT Pol. :H Plane Measurement Antenna :VERTICAL  
 Pol.



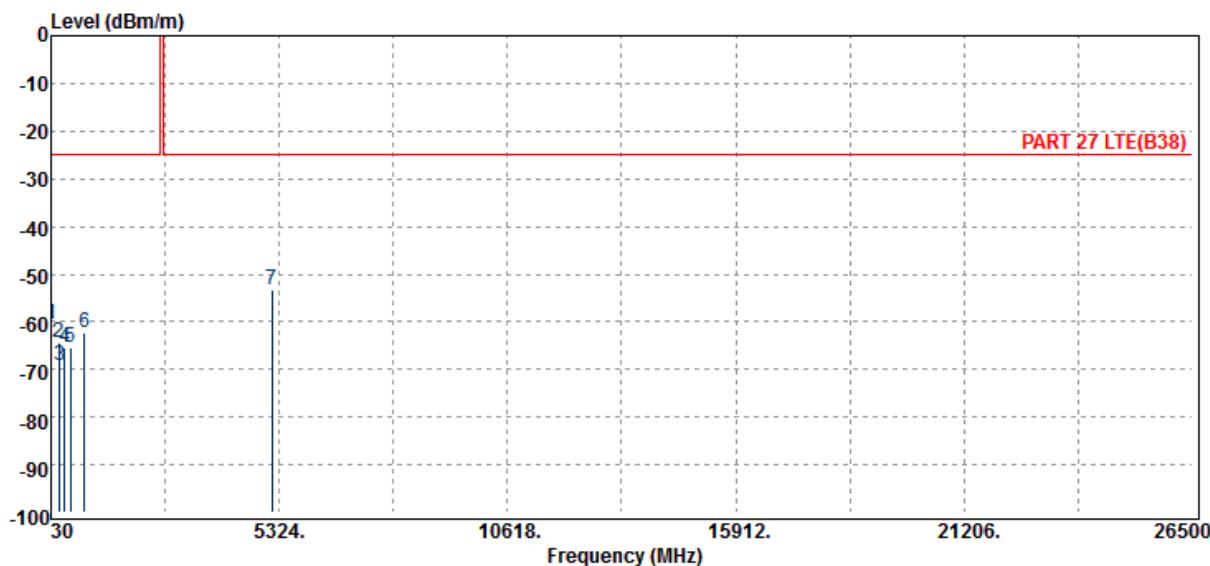
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 53.28        | S               | -58.93      | -49.58                    | -49.58                    | -8.29                  | -1.06               | -25.00       | -33.93       |
| 177.44       | S               | -67.11      | -68.15                    | -68.15                    | 2.59                   | -1.55               | -25.00       | -42.11       |
| 245.34       | S               | -66.80      | -70.56                    | -70.56                    | 5.52                   | -1.75               | -25.00       | -41.80       |
| 377.26       | S               | -67.07      | -70.82                    | -70.82                    | 5.99                   | -2.24               | -25.00       | -42.07       |
| 527.61       | S               | -63.94      | -67.32                    | -67.32                    | 5.86                   | -2.47               | -25.00       | -38.94       |
| 749.74       | S               | -60.01      | -62.26                    | -62.26                    | 5.33                   | -3.08               | -25.00       | -35.01       |
| 5150.00      | H               | -54.81      | -59.63                    | -59.63                    | 12.76                  | -7.94               | -25.00       | -29.81       |

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|                       |            |                  |                     |
|-----------------------|------------|------------------|---------------------|
| Operation Band        | :LTE B38   | Temp./Humi.      | :22 deg_C / 61 RH   |
| Fundamental Frequency | :2575 MHz  | Engineer         | :Tin                |
| Operation Mode        | :Tx CH LOW | Mode             | :10M QPSK RB 1,49   |
| EUT Pol.              | :H Plane   | Measurement Pol. | Antenna :HORIZONTAL |



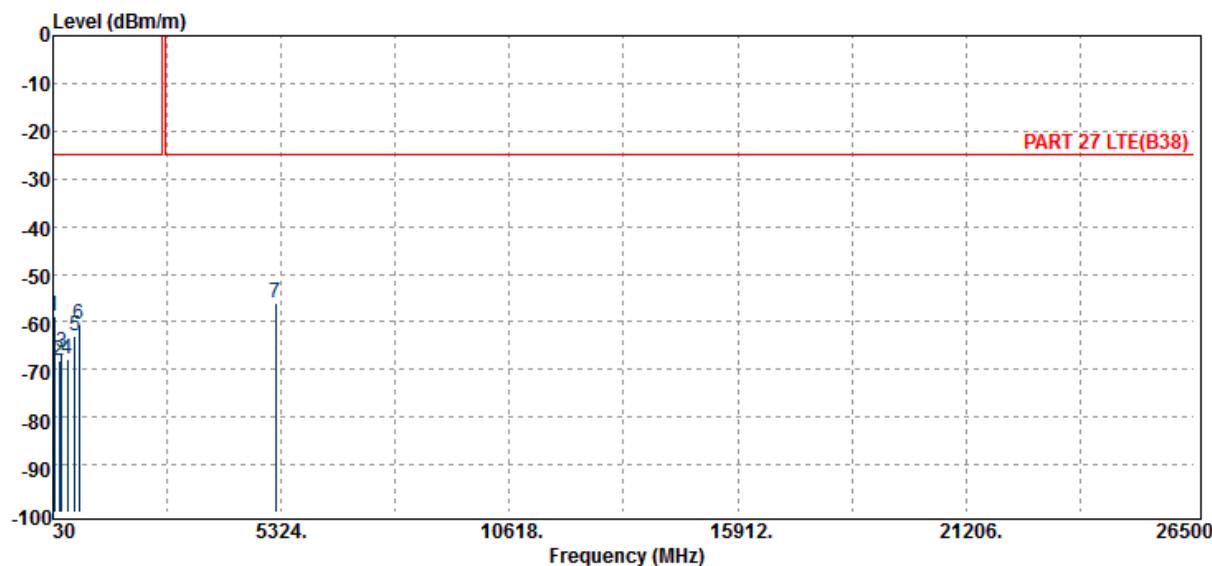
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                        | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi |                        |                     |              |              |
| 30.00        | S               | -60.68      | -47.10                    | -12.63                 | -0.96                  | -25.00              | -35.68       |              |
| 217.21       | S               | -64.38      | -68.21                    | 5.53                   | -1.69                  | -25.00              | -39.38       |              |
| 239.52       | S               | -69.25      | -72.93                    | 5.43                   | -1.74                  | -25.00              | -44.25       |              |
| 337.49       | S               | -65.51      | -69.52                    | 5.95                   | -1.95                  | -25.00              | -40.51       |              |
| 485.90       | S               | -65.34      | -69.04                    | 5.95                   | -2.26                  | -25.00              | -40.34       |              |
| 800.18       | S               | -62.39      | -64.98                    | 5.49                   | -2.90                  | -25.00              | -37.39       |              |
| 5150.00      | H               | -53.17      | -57.99                    | 12.76                  | -7.94                  | -25.00              | -28.17       |              |

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|                       |             |                  |                   |
|-----------------------|-------------|------------------|-------------------|
| Operation Band        | :LTE B38    | Temp./Humi.      | :22 deg_C / 61 RH |
| Fundamental Frequency | :2595.0 MHz | Engineer         | :Tin              |
| Operation Mode        | :Tx CH MID  | Mode             | :10M QPSK RB 1,49 |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :VERTICAL |



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 55.22        | S               | -58.95      | -50.10                    | -50.10                    | -7.78                  | -1.06               | -25.00       | -33.95       |
| 173.56       | S               | -68.13      | -68.48                    | -68.48                    | 1.89                   | -1.53               | -25.00       | -43.13       |
| 239.52       | S               | -66.34      | -70.03                    | -70.03                    | 5.43                   | -1.74               | -25.00       | -41.34       |
| 362.71       | S               | -67.67      | -71.53                    | -71.53                    | 6.00                   | -2.15               | -25.00       | -42.67       |
| 529.55       | S               | -62.87      | -66.22                    | -66.22                    | 5.85                   | -2.49               | -25.00       | -37.87       |
| 631.40       | S               | -60.44      | -63.30                    | -63.30                    | 5.33                   | -2.46               | -25.00       | -35.44       |
| 5190.00      | H               | -55.95      | -60.78                    | -60.78                    | 12.78                  | -7.95               | -25.00       | -30.95       |

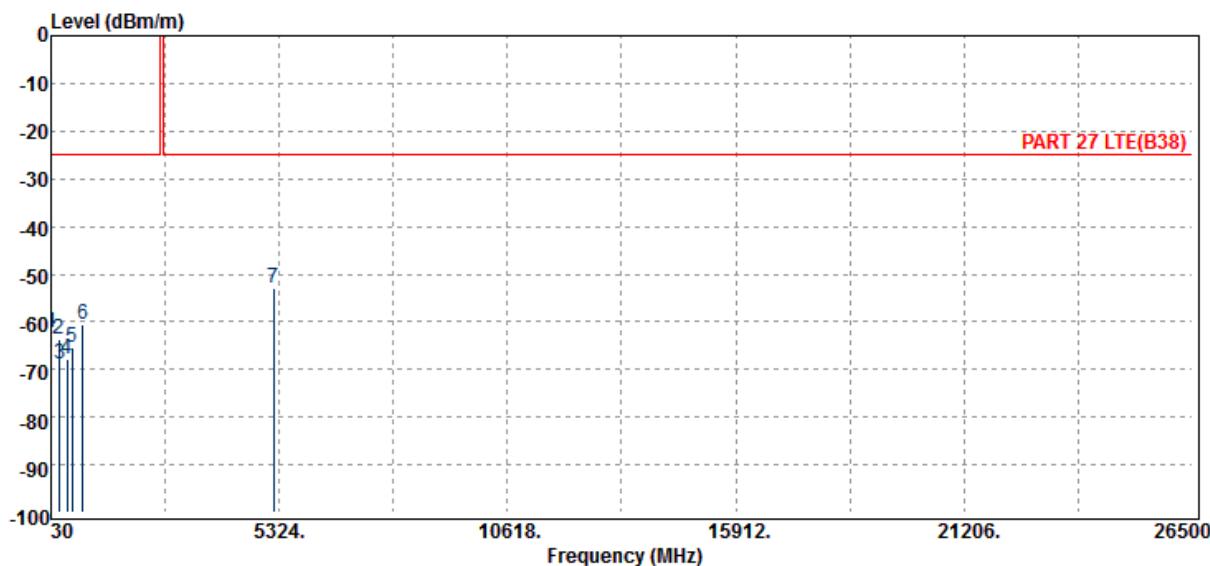
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Operation Band :LTE B38  
 Fundamental Frequency :2595.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane

Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Mode :10M QPSK RB 1,49  
 Measurement Pol. Antenna :HORIZONTAL



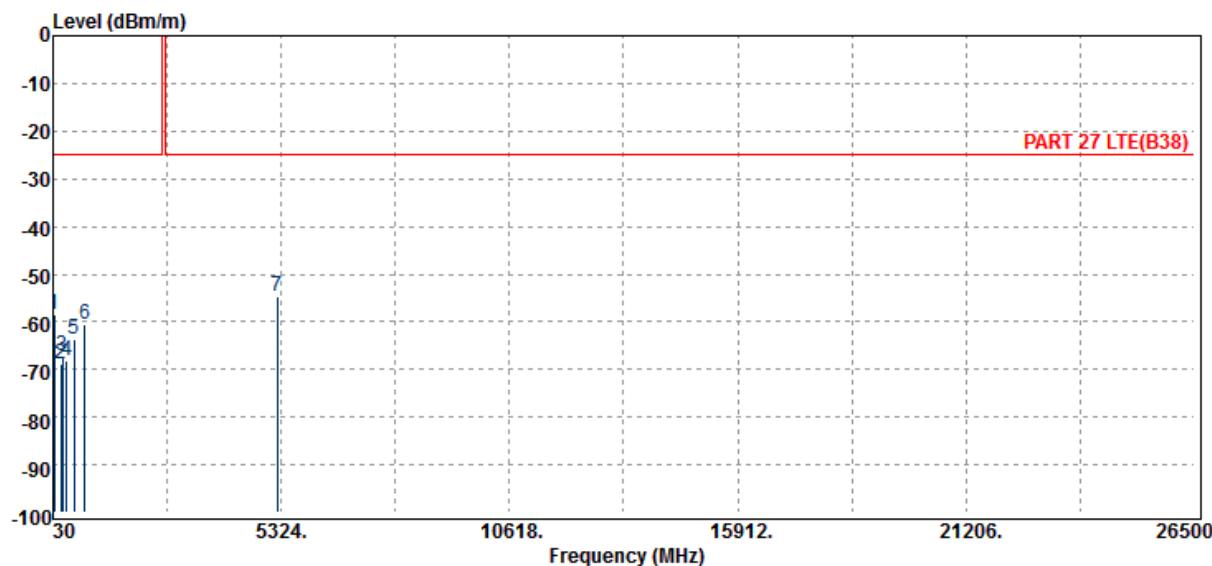
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 30.00        | S               | -62.12      | -48.54                    | -48.54                    | -12.63                 | -0.96               | -25.00       | -37.12       |
| 219.15       | S               | -63.51      | -67.31                    | -67.31                    | 5.49                   | -1.70               | -25.00       | -38.51       |
| 240.49       | S               | -68.78      | -72.48                    | -72.48                    | 5.44                   | -1.74               | -25.00       | -43.78       |
| 395.69       | S               | -67.70      | -71.32                    | -71.32                    | 5.97                   | -2.35               | -25.00       | -42.70       |
| 516.94       | S               | -65.25      | -68.80                    | -68.80                    | 5.91                   | -2.37               | -25.00       | -40.25       |
| 773.99       | S               | -60.50      | -62.98                    | -62.98                    | 5.41                   | -2.93               | -25.00       | -35.50       |
| 5190.00      | H               | -52.94      | -57.77                    | -57.77                    | 12.78                  | -7.95               | -25.00       | -27.94       |

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|                       |             |                  |                   |
|-----------------------|-------------|------------------|-------------------|
| Operation Band        | :LTE B38    | Temp./Humi.      | :22 deg_C / 61 RH |
| Fundamental Frequency | :2615 MHz   | Engineer         | :Tin              |
| Operation Mode        | :Tx CH HIGH | Mode             | :10M QPSK RB 1,49 |
| EUT Pol.              | :H Plane    | Measurement Pol. | Antenna :VERTICAL |



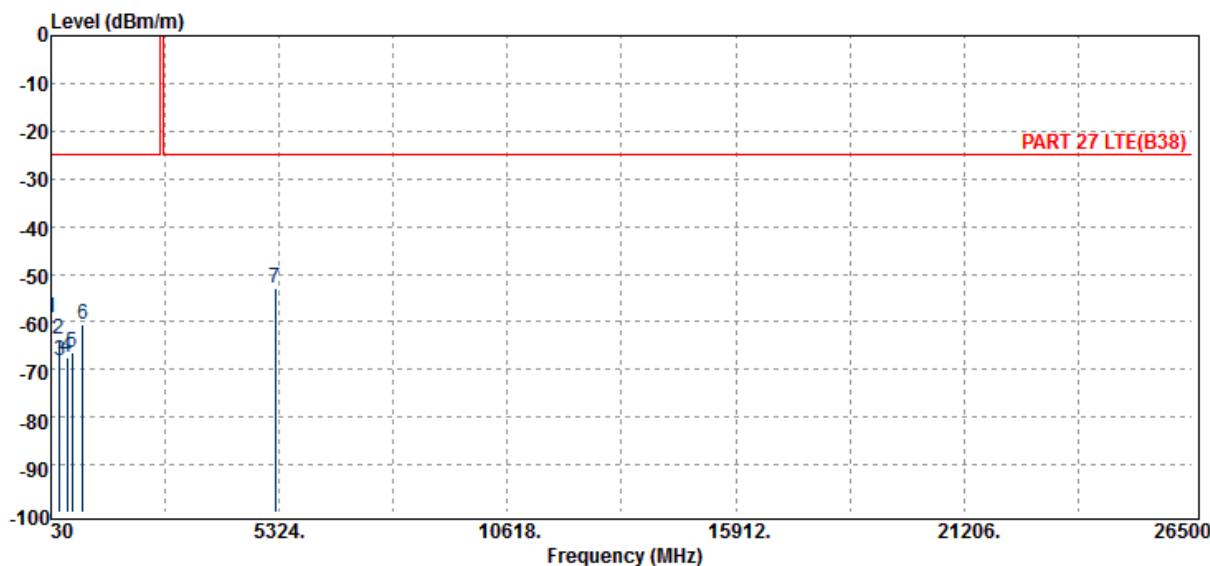
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |                           | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|---------------------------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output Level<br>dBm       | SG<br>Output Level<br>dBm |                        |                     |              |              |
| 52.31        | S               | -58.47      | -48.87                    | -48.87                    | -8.55                  | -1.05               | -25.00       | -33.47       |
| 216.24       | S               | -68.82      | -72.68                    | -72.68                    | 5.55                   | -1.69               | -25.00       | -43.82       |
| 249.22       | S               | -67.11      | -70.93                    | -70.93                    | 5.58                   | -1.76               | -25.00       | -42.11       |
| 350.10       | S               | -68.03      | -72.00                    | -72.00                    | 6.01                   | -2.05               | -25.00       | -43.03       |
| 527.61       | S               | -63.79      | -67.18                    | -67.18                    | 5.86                   | -2.47               | -25.00       | -38.79       |
| 772.05       | S               | -60.53      | -62.99                    | -62.99                    | 5.40                   | -2.94               | -25.00       | -35.53       |
| 5230.00      | H               | -54.64      | -59.44                    | -59.44                    | 12.79                  | -8.00               | -25.00       | -29.64       |

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Operation Band :LTE B38  
 Fundamental Frequency :2615 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Mode :10M QPSK RB 1,49  
 Measurement Pol. Antenna :HORIZONTAL



| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm |        | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|--------|------------------------|---------------------|--------------|--------------|
|              |                 |             | Output                    | Level  |                        |                     |              |              |
| 30.00        | S               | -59.28      | -45.69                    | -45.69 | -12.63                 | -0.96               | -25.00       | -34.28       |
| 219.15       | S               | -63.72      | -67.52                    | -67.52 | 5.49                   | -1.70               | -25.00       | -38.72       |
| 240.49       | S               | -68.04      | -71.75                    | -71.75 | 5.44                   | -1.74               | -25.00       | -43.04       |
| 406.36       | S               | -67.53      | -71.06                    | -71.06 | 5.95                   | -2.42               | -25.00       | -42.53       |
| 513.06       | S               | -66.56      | -70.14                    | -70.14 | 5.94                   | -2.35               | -25.00       | -41.56       |
| 769.14       | S               | -60.39      | -62.83                    | -62.83 | 5.39                   | -2.96               | -25.00       | -35.39       |
| 5230.00      | H               | -53.06      | -57.86                    | -57.86 | 12.79                  | -8.00               | -25.00       | -28.06       |

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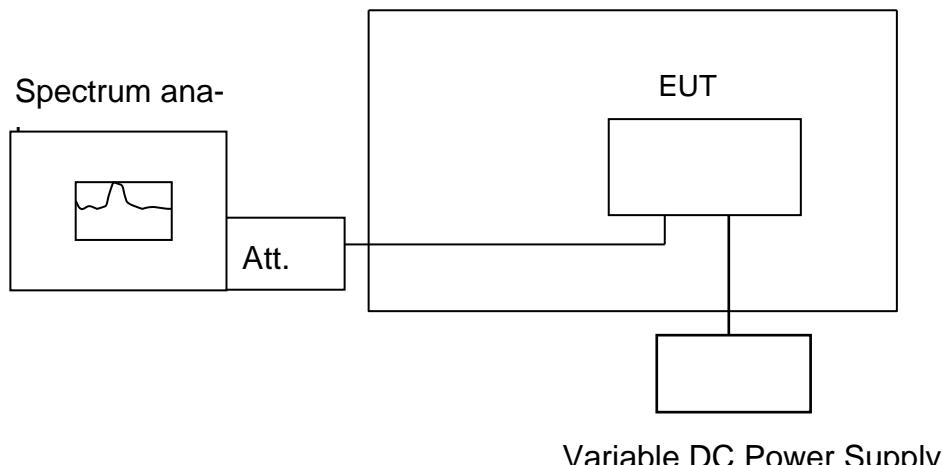
## 11. FREQUENCY STABILITY MEASUREMENT

### 11.1. Standard Applicable:

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

### 11.2. Test Set-up:

Temperature Chamber



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

### 11.3. Measurement Procedure:

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

Set chamber temperature to 25 . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

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

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#### 11.4. Measurement Equipment Used:

| Conducted Emission (measured at antenna port) Test Site |               |              |               |            |            |
|---|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE  | MFR           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| EXA Spectrum Analyzer                                   | Agilent       | N9030A       | MY53120760    | 03/21/2017 | 03/20/2018 |
| DC Block  | Mini-Circuits | BLK-18-S+    | 1             | 01/05/2017 | 01/04/2018 |
| Coaxial Cable   | HU-BER+SUHNER | SUCOFLEX 102 | 23670/2       | 01/05/2017 | 01/04/2018 |
| Attenuator  | Mini-Circuit  | BW-S10W2+    | 2             | 01/05/2017 | 01/04/2018 |
| Splitter  | Agilent       | 11636B       | N/A           | 01/05/2017 | 01/04/2018 |
| DC Power Supply   | Agilent       | E3640A       | MY52410006    | 11/21/2016 | 11/20/2017 |
| Temperature Chamber                                     | TERCHY        | MHG-120LF    | 911009        | 05/19/2017 | 05/18/2018 |
| Radio Communication Analyzer                            | R&S           | CMU200       | 102189        | 02/10/2017 | 02/09/2018 |
| Radio Communication Analyer                             | Anritsu       | MT8820C      | 6201465317    | 01/03/2017 | 01/02/2018 |
| Radio Communication Analyzer                            | R&S           | CMU200       | 102189        | 02/11/2016 | 02/10/2017 |

#### 11.5. Measurement Result:

| Reference Frequency: GPRS 850 Mid Channel 836.6 MHz |             |            |            |            |
|---|-------------|------------|------------|------------|
| Limit: +/- 2.5 ppm                                  |             |            |            |            |
| Power Supply  | Environment | Frequency  | Delta (Hz) | Limit (Hz) |
| Vdc   | Temp. ( )   | (MHz)      |            |            |
| FREQUENCY ERROR vs. VOLTAGE                         |             |            |            |            |
| 4.4   | 20          | 836600017  | 6          | 2091       |
| 3.85  | 20          | 836600011  | 0          | 2091       |
| 3.5   | 20          | 836600002  | -9         | 2091       |
| 2.5 (End point)                                     | 20          | 836600026  | 15         | 2091       |
| FREQUENCY ERROR vs. Temp.                           |             |            |            |            |
| 3.85  | 50          | 836600014  | 3          | 2091       |
| 3.85  | 40          | 836600006  | -5         | 2091       |
| 3.85  | 30          | 836600007  | -4         | 2091       |
| 3.85  | 20          | 8366000110 | 0          | 2091       |
| 3.85  | 10          | 836600003  | -8         | 2091       |
| 3.85  | 0           | 836600016  | 5          | 2091       |
| 3.85  | -10         | 836600014  | 3          | 2091       |
| 3.85  | -20         | 836600015  | 4          | 2091       |
| 3.85  | -30         | 836600006  | -5         | 2091       |

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| Reference Frequency: GPRS 1900 Mid Channel 1880 MHz |             |            |            |            |
|---|-------------|------------|------------|------------|
| Limit: +/- 2.5 ppm                                  |             |            |            |            |
| Power Supply  | Environment | Frequency  | Delta (Hz) | Limit (Hz) |
| Vdc   | Temp. ( )   | (MHz)      |            |            |
| FREQUENCY ERROR vs. VOLTAGE                         |             |            |            |            |
| 4.4   | 20          | 1879999995 | 1          | 4700       |
| 3.85  | 20          | 1879999994 | 0          | 4700       |
| 3.5   | 20          | 1880000005 | 11         | 4700       |
| 2.5 (End point)                                     | 20          | 1880000003 | 9          | 4700       |
| FREQUENCY ERROR vs. Temp.                           |             |            |            |            |
| 3.85  | 50          | 1880000006 | 12         | 4700       |
| 3.85  | 40          | 1879999998 | 4          | 4700       |
| 3.85  | 30          | 1880000006 | 12         | 4700       |
| 3.85  | 20          | 1879999994 | 0          | 4700       |
| 3.85  | 10          | 1879999989 | -5         | 4700       |
| 3.85  | 0           | 1880000015 | 21         | 4700       |
| 3.85  | -10         | 1880000022 | 28         | 4700       |
| 3.85  | -20         | 1880000014 | 20         | 4700       |
| 3.85  | -30         | 1880000006 | 12         | 4700       |
| Reference Frequency: WCDMA II Mid Channel 1880 MHz  |             |            |            |            |
| Limit: +/- 2.5 ppm                                  |             |            |            |            |
| Power Supply  | Environment | Frequency  | Delta (Hz) | Limit (Hz) |
| Vdc   | Temp. ( )   | (MHz)      |            |            |
| FREQUENCY ERROR vs. VOLTAGE                         |             |            |            |            |
| 4.4   | 20          | 1879999994 | -1         | 4700       |
| 3.85  | 20          | 1879999995 | 0          | 4700       |
| 3.5   | 20          | 1880000002 | 7          | 4700       |
| 2.5 (End point)                                     | 20          | 1879999994 | -1         | 4700       |
| FREQUENCY ERROR vs. Temp.                           |             |            |            |            |
| 3.85  | 50          | 1879999989 | 3          | 4700       |
| 3.85  | 40          | 1879999996 | 17         | 4700       |
| 3.85  | 30          | 1880000002 | -3         | 4700       |
| 3.85  | 20          | 1879999995 | 0          | 4700       |
| 3.85  | 10          | 1880000006 | 21         | 4700       |
| 3.85  | 0           | 1880000008 | -6         | 4700       |
| 3.85  | -10         | 1879999989 | 20         | 4700       |
| 3.85  | -20         | 1880000022 | 22         | 4700       |
| 3.85  | -30         | 1880000004 | 4          | 4700       |

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| Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz |             |            |            |            |
|--|-------------|------------|------------|------------|
| Limit: +/- 2.5 ppm                                   |             |            |            |            |
| Power Supply   | Environment | Frequency  | Delta (Hz) | Limit (Hz) |
| Vdc  | Temp. ( )   | (MHz)      |            |            |
| FREQUENCY ERROR vs. VOLTAGE                          |             |            |            |            |
| 4.4  | 20          | 1732600000 | 6          | 4331       |
| 3.85   | 20          | 1732599994 | 0          | 4331       |
| 3.5  | 20          | 1732600006 | 12         | 4331       |
| 2.5 (End point)                                      | 20          | 1732599995 | 1          | 4331       |
| FREQUENCY ERROR vs. Temp.                            |             |            |            |            |
| 3.85   | 50          | 1732600006 | 12         | 4331       |
| 3.85   | 40          | 1732600005 | 11         | 4331       |
| 3.85   | 30          | 1732599997 | 3          | 4331       |
| 3.85   | 20          | 1732599994 | 0          | 4331       |
| 3.85   | 10          | 1732599995 | 1          | 4331       |
| 3.85   | 0           | 1732600006 | 12         | 4331       |
| 3.85   | -10         | 1732599995 | 1          | 4331       |
| 3.85   | -20         | 1732600012 | 18         | 4331       |
| 3.85   | -30         | 1732600001 | 7          | 4331       |

| Reference Frequency: WCDMA V Mid Channel 836.6 MHz |             |           |            |            |
|--|-------------|-----------|------------|------------|
| Limit: +/- 2.5 ppm                                 |             |           |            |            |
| Power Supply                                       | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc  | Temp. ( )   | (MHz)     |            |            |
| FREQUENCY ERROR vs. VOLTAGE                        |             |           |            |            |
| 4.4  | 20          | 83659999  | -2         | 2091       |
| 3.85   | 20          | 83659992  | 0          | 2091       |
| 3.5  | 20          | 83660006  | 14         | 2091       |
| 2.5 (End point)                                    | 20          | 83660003  | 11         | 2091       |
| FREQUENCY ERROR vs. Temp.                          |             |           |            |            |
| 3.85   | 50          | 83660006  | 14         | 2091       |
| 3.85   | 40          | 83660005  | 13         | 2091       |
| 3.85   | 30          | 83660004  | 12         | 2091       |
| 3.85   | 20          | 83659992  | 0          | 2091       |
| 3.85   | 10          | 83660002  | 10         | 2091       |
| 3.85   | 0           | 83660006  | 14         | 2091       |
| 3.85   | -10         | 83660005  | 13         | 2091       |
| 3.85   | -20         | 83660008  | 16         | 2091       |
| 3.85   | -30         | 83660003  | 11         | 2091       |

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| Reference Freq.:               |           | LTE B2 Mid Channel | 1880       | MHz                      | 20M QPSK |
|--------------------------------|-----------|--------------------|------------|--------------------------|----------|
| Power Supply Vdc               | Temp. ( ) | Freq. (MHz)        | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |          |
| <b>Freq. ERROR vs. VOLTAGE</b> |           |                    |            |                          |          |
| 4.4                            | 25        | 1880.00003         | 67.7       | 4700                     |          |
| 3.85                           | 25        | 1879.99996         | 0          | 4700                     |          |
| 3.5                            | 25        | 1880.00002         | 56.7       | 4700                     |          |
| 2.5<br>(End Point)             | 25        | 1880.00002         | 63.7       | 4700                     |          |
| <b>Freq. ERROR vs. Temp.</b>   |           |                    |            |                          |          |
| 3.85                           | -30       | 1879.99996         | -57.4      | 4700                     |          |
| 3.85                           | -20       | 1879.99997         | -46.1      | 4700                     |          |
| 3.85                           | -10       | 1880.00002         | 3          | 4700                     |          |
| 3.85                           | 0         | 1879.99998         | -39        | 4700                     |          |
| 3.85                           | 10        | 1879.99996         | -50.7      | 4700                     |          |
| 3.85                           | 20        | 1880.00002         | 0          | 4700                     |          |
| 3.85                           | 30        | 1879.99997         | -42.9      | 4700                     |          |
| 3.85                           | 40        | 1880.00002         | 8          | 4700                     |          |
| 3.85                           | 50        | 1879.99998         | -32.6      | 4700                     |          |

| Reference Freq.:               |           | LTE B4 Mid Channel | 1732.5     | MHz                      | 20M QPSK | CH 20175 |
|--------------------------------|-----------|--------------------|------------|--------------------------|----------|----------|
| Power Supply Vdc               | Temp. ( ) | Freq. (MHz)        | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |          |          |
| <b>Freq. ERROR vs. VOLTAGE</b> |           |                    |            |                          |          |          |
| 4.4                            | 25        | 1732.49996         | -10.1      | 4331                     |          |          |
| 3.85                           | 25        | 1732.49997         | 0          | 4331                     |          |          |
| 3.5                            | 25        | 1732.50000         | 33.1       | 4331                     |          |          |
| 2.5<br>(End Point)             | 25        | 1732.49997         | -0.2       | 4331                     |          |          |
| <b>Freq. ERROR vs. Temp.</b>   |           |                    |            |                          |          |          |
| 3.85                           | -30       | 1732.49996         | -56.7      | 4331                     |          |          |
| 3.85                           | -20       | 1732.50004         | 15         | 4331                     |          |          |
| 3.85                           | -10       | 1732.49997         | -52.9      | 4331                     |          |          |
| 3.85                           | 0         | 1732.50000         | -16.8      | 4331                     |          |          |
| 3.85                           | 10        | 1732.49997         | -54.4      | 4331                     |          |          |
| 3.85                           | 20        | 1732.50002         | 0          | 4331                     |          |          |
| 3.85                           | 30        | 1732.49997         | -55.9      | 4331                     |          |          |
| 3.85                           | 40        | 1732.50001         | -9.1       | 4331                     |          |          |
| 3.85                           | 50        | 1732.50002         | -5.7       | 4331                     |          |          |

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| Reference Freq.:        |           | LTE B5 Mid Channel | 836.5 MHz  | 10M QPSK CH 20525        |
|-------------------------|-----------|--------------------|------------|--------------------------|
| Power Supply Vdc        | Temp. ( ) | Freq. (MHz)        | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| Freq. ERROR vs. VOLTAGE |           |                    |            |                          |
| 4.4                     | 25        | 836.49996          | -52.5      | 2091                     |
| 3.85                    | 25        | 836.50001          | 0          | 2091                     |
| 3.5                     | 25        | 836.49725          | -2763      | 2091                     |
| 2.5<br>(End Point)      | 25        | 836.49997          | -41.6      | 2091                     |
| Freq. ERROR vs. Temp.   |           |                    |            |                          |
| 3.85                    | -30       | 836.49996          | -8.7       | 2091                     |
| 3.85                    | -20       | 836.49997          | -1.8       | 2091                     |
| 3.85                    | -10       | 836.50002          | 53.9       | 2091                     |
| 3.85                    | 0         | 836.49997          | 7          | 2091                     |
| 3.85                    | 10        | 836.50002          | 49.6       | 2091                     |
| 3.85                    | 20        | 836.49997          | 0          | 2091                     |
| 3.85                    | 30        | 836.49996          | -4.2       | 2091                     |
| 3.85                    | 40        | 836.49997          | 3.5        | 2091                     |
| 3.85                    | 50        | 836.50000          | 33.9       | 2091                     |

| Reference Freq.:        |           | LTE B7 Mid Channel | 2535 MHz   | 10M QPSK CH 21100        |
|-------------------------|-----------|--------------------|------------|--------------------------|
| Power Supply Vdc        | Temp. ( ) | Freq. (MHz)        | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| Freq. ERROR vs. VOLTAGE |           |                    |            |                          |
| 4.4                     | 25        | 2534.99997         | -29.83     | 6338                     |
| 3.85                    | 25        | 2535.00000         | 0          | 6338                     |
| 3.5                     | 25        | 2535.00001         | 3.82       | 6338                     |
| 2.5<br>(End Point)      | 25        | 2535.00001         | 6.27       | 6338                     |
| Freq. ERROR vs. Temp.   |           |                    |            |                          |
| 3.85                    | -30       | 2535.00001         | 29.5       | 6338                     |
| 3.85                    | -20       | 2535.00001         | 30.1       | 6338                     |
| 3.85                    | -10       | 2534.99999         | 5.3        | 6338                     |
| 3.85                    | 0         | 2534.99998         | 0.5        | 6338                     |
| 3.85                    | 10        | 2535.00001         | 22.7       | 6338                     |
| 3.85                    | 20        | 2534.99998         | 0          | 6338                     |
| 3.85                    | 30        | 2534.99999         | 4.3        | 6338                     |
| 3.85                    | 40        | 2534.99998         | 0.8        | 6338                     |
| 3.85                    | 50        | 2535.00000         | 16.07      | 6338                     |

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| Reference Freq.:               |           | LTE B12 Mid Channel |            | 707.5 MHz 10M QPSK CH    |
|--------------------------------|-----------|---------------------|------------|--------------------------|
| Power Supply Vdc               | Temp. ( ) | Freq. (MHz)         | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| <b>Freq. ERROR vs. VOLTAGE</b> |           |                     |            |                          |
| 4.4                            | 25        | 707.50001           | -6.7       | 1769                     |
| 3.85                           | 25        | 707.50001           | 0          | 1769                     |
| 3.5                            | 25        | 707.50000           | -9.2       | 1769                     |
| 2.5<br>(End Point)             | 25        | 707.49998           | -27.7      | 1769                     |
| <b>Freq. ERROR vs. Temp.</b>   |           |                     |            |                          |
| 3.85                           | -30       | 707.49999           | -21.1      | 1769                     |
| 3.85                           | -20       | 707.50000           | -6.4       | 1769                     |
| 3.85                           | -10       | 707.49999           | -16.2      | 1769                     |
| 3.85                           | 0         | 707.50000           | -12.5      | 1769                     |
| 3.85                           | 10        | 707.50001           | -2.1       | 1769                     |
| 3.85                           | 20        | 707.50001           | 0          | 1769                     |
| 3.85                           | 30        | 707.50000           | -2.9       | 1769                     |
| 3.85                           | 40        | 707.50000           | -11.3      | 1769                     |
| 3.85                           | 50        | 707.50000           | -9.8       | 1769                     |

| Reference Freq.:               |           | LTE B17 Mid Channel |            | 710 MHz 10M QPSK CH      |
|--------------------------------|-----------|---------------------|------------|--------------------------|
| Power Supply Vdc               | Temp. ( ) | Freq. (MHz)         | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| <b>Freq. ERROR vs. VOLTAGE</b> |           |                     |            |                          |
| 4.4                            | 25        | 710.00000           | 36.9       | 1775                     |
| 3.85                           | 25        | 709.99997           | 0          | 1775                     |
| 3.5                            | 25        | 710.00001           | 44.6       | 1775                     |
| 2.5<br>(End Point)             | 25        | 709.99997           | 4.9        | 1775                     |
| <b>Freq. ERROR vs. Temp.</b>   |           |                     |            |                          |
| 3.85                           | -30       | 709.99997           | -34.5      | 1775                     |
| 3.85                           | -20       | 709.99997           | -34.8      | 1775                     |
| 3.85                           | -10       | 710.00001           | 2.1        | 1775                     |
| 3.85                           | 0         | 709.99998           | -27.9      | 1775                     |
| 3.85                           | 10        | 709.99996           | -42.1      | 1775                     |
| 3.85                           | 20        | 710.00001           | 0          | 1775                     |
| 3.85                           | 30        | 710.00000           | -0.9       | 1775                     |
| 3.85                           | 40        | 709.99998           | -22.5      | 1775                     |
| 3.85                           | 50        | 709.99998           | -22.8      | 1775                     |

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| Reference Freq.:               |           | LTE B38 Mid Channel |            | MHz 2595                 | 10M QPSK CH 38000 |
|--------------------------------|-----------|---------------------|------------|--------------------------|-------------------|
| Power Supply Vdc               | Temp. ( ) | Freq. (MHz)         | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |                   |
| <b>Freq. ERROR vs. VOLTAGE</b> |           |                     |            |                          |                   |
| 4.4                            | 25        | 2594.99999          | -18.7      | 6488                     |                   |
| 3.85                           | 25        | 2595.00001          | 0          | 6488                     |                   |
| 3.5                            | 25        | 2594.99998          | -24.9      | 6488                     |                   |
| 2.5<br>(End Point)             | 25        | 2594.99998          | -23.2      | 6488                     |                   |
| <b>Freq. ERROR vs. Temp.</b>   |           |                     |            |                          |                   |
| 3.85                           | -30       | 2595.00002          | 54.7       | 6488                     |                   |
| 3.85                           | -20       | 2595.00002          | 50         | 6488                     |                   |
| 3.85                           | -10       | 2594.99997          | 4.8        | 6488                     |                   |
| 3.85                           | 0         | 2595.00001          | 37.4       | 6488                     |                   |
| 3.85                           | 10        | 2594.99997          | 0.4        | 6488                     |                   |
| 3.85                           | 20        | 2594.99997          | 0          | 6488                     |                   |
| 3.85                           | 30        | 2595.00001          | 37.06      | 6488                     |                   |
| 3.85                           | 40        | 2594.99998          | 9.9        | 6488                     |                   |
| 3.85                           | 50        | 2595.00001          | 43.6       | 6488                     |                   |

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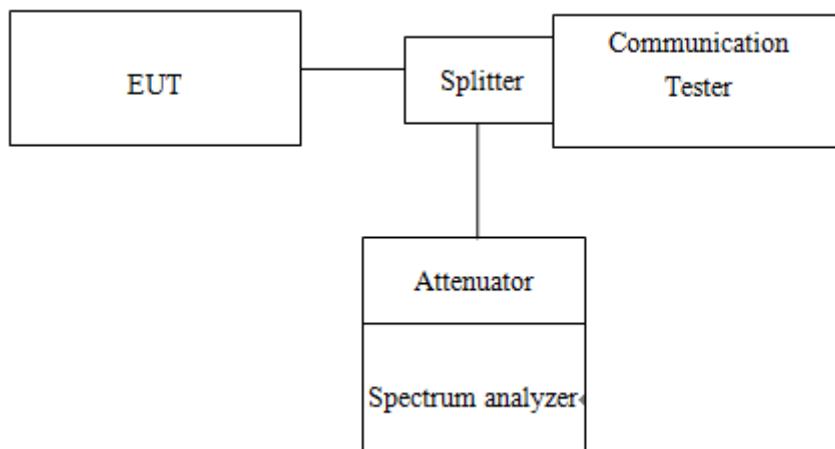
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## 12. PEAK TO AVERAGE RATIO

### 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.   |
| EXA Spectrum Analyzer                                   | Agilent       | N9030A       | MY53120760    | 03/21/2017 | 03/20/2018 |
| DC Block  | Mini-Circuits | BLK-18-S+    | 1             | 01/05/2017 | 01/04/2018 |
| Coaxial Cable   | HUBER+SUHNER  | SUCOFLEX 102 | 23670/2       | 01/05/2017 | 01/04/2018 |
| Attenuator  | Mini-Circuit  | BW-S10W2+    | 2             | 01/05/2017 | 01/04/2018 |
| Splitter  | Agilent       | 11636B       | N/A           | 01/05/2017 | 01/04/2018 |
| DC Power Supply   | Agilent       | E3640A       | MY52410006    | 11/21/2016 | 11/20/2017 |
| Temperature Chamber                                     | TERCHY        | MHG-120LF    | 911009        | 05/19/2017 | 05/18/2018 |
| Radio Communication Analyzer                            | R&S           | CMU200       | 102189        | 02/10/2017 | 02/09/2018 |
| Radio Communication Analyer                             | Anritsu       | MT8820C      | 6201465317    | 01/03/2017 | 01/02/2018 |

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## 12.5. Measurement Result

### Tabular Results:

| Freq.<br>(MHz) | CH  | Peak-to-Average Ratio (dB) |             |             |
|----------------|-----|----------------------------|-------------|-------------|
|                |     | GSM<br>850                 | GPRS<br>850 | EDGE<br>850 |
| 824.2          | 128 | 8.94                       | 8.89        | 11.58       |
| 836.6          | 190 | 9.68                       | 10.24       | 11.62       |
| 848.8          | 251 | 9.22                       | 9.89        | 11.81       |

| Freq.<br>(MHz) | CH  | Peak-to-Average Ratio (dB) |              |              |
|----------------|-----|----------------------------|--------------|--------------|
|                |     | GSM<br>1900                | GPRS<br>1900 | EDGE<br>1900 |
| 1850.2         | 512 | 9.51                       | 7.97         | 11.73        |
| 1880           | 661 | 9.08                       | 9.28         | 11.16        |
| 1909.8         | 810 | 8.87                       | 9.17         | 11.58        |

| Freq.<br>(MHz) | CH   | Peak-to-Average Ratio (dB) |             |             |
|----------------|------|----------------------------|-------------|-------------|
|                |      | WCDMA<br>II                | HSDPA<br>II | HSUPA<br>II |
| 1852.4         | 9262 | 2.85                       | 3.61        | 3.38        |
| 1880           | 9400 | 3.00                       | 3.69        | 3.76        |
| 1907.6         | 9538 | 2.87                       | 3.51        | 3.54        |

| Freq.<br>(MHz) | CH   | Peak-to-Average Ratio (dB) |             |             |
|----------------|------|----------------------------|-------------|-------------|
|                |      | WCDMA<br>IV                | HSDPA<br>IV | HSUPA<br>IV |
| 1712.4         | 1312 | 3.33                       | 4.27        | 3.95        |
| 1732.6         | 1413 | 3.29                       | 4.05        | 4.02        |
| 1752.6         | 1513 | 3.33                       | 3.92        | 3.92        |

| Freq.<br>(MHz) | CH   | Peak-to-Average Ratio (dB) |            |            |
|----------------|------|----------------------------|------------|------------|
|                |      | WCDMA<br>V                 | HSDPA<br>V | HSUPA<br>V |
| 826.4          | 4132 | 3.07                       | 3.93       | 3.87       |
| 836.6          | 4183 | 3.03                       | 4.01       | 4.18       |
| 846.6          | 4233 | 2.91                       | 3.87       | 3.95       |

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| LTE BAND 2                |       |                 |       |                         |       |                 |       |
|---------------------------|-------|-----------------|-------|-------------------------|-------|-----------------|-------|
| 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 |
| 1850.7                    | 18607 | 6.35            | 13    | 1851.5                  | 18615 | 6.25            | 13    |
| 1880.0                    | 18900 | 6.61            | 13    | 1880.0                  | 18900 | 6.56            | 13    |
| 1909.3                    | 19193 | 6.06            | 13    | 1908.5                  | 19185 | 6.20            | 13    |

| LTE BAND 2              |       |                 |       |                          |       |                 |       |
|-------------------------|-------|-----------------|-------|--------------------------|-------|-----------------|-------|
| Channel bandwidth: 5MHz |       |                 |       | Channel bandwidth: 10MHz |       |                 |       |
| Freq.<br>(MHz)          | CH    | Peak-to-Average |       | Freq.<br>(MHz)           | CH    | Peak-to-Average |       |
|                         |       | 16QAM           | Limit |                          |       | 16QAM           | Limit |
| 1852.5                  | 18625 | 6.19            | 13    | 1855.0                   | 18650 | 6.01            | 13    |
| 1880.0                  | 18900 | 6.50            | 13    | 1880.0                   | 18900 | 6.34            | 13    |
| 1907.5                  | 19175 | 6.22            | 13    | 1905.0                   | 19150 | 6.20            | 13    |

| LTE BAND 2               |       |                 |       |                          |       |                 |       |
|--------------------------|-------|-----------------|-------|--------------------------|-------|-----------------|-------|
| Channel bandwidth: 15MHz |       |                 |       | Channel bandwidth: 20MHz |       |                 |       |
| Freq.<br>(MHz)           | CH    | Peak-to-Average |       | Freq.<br>(MHz)           | CH    | Peak-to-Average |       |
|                          |       | 16QAM           | Limit |                          |       | 16QAM           | Limit |
| 1857.5                   | 18675 | 6.20            | 13    | 1860.0                   | 18700 | 6.59            | 13    |
| 1880.0                   | 18900 | 6.37            | 13    | 1880.0                   | 18900 | 6.72            | 13    |
| 1902.5                   | 19125 | 6.41            | 13    | 1900.0                   | 19100 | 6.76            | 13    |

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| LTE BAND 4                |       |                 |       |                         |       |                 |       |
|---------------------------|-------|-----------------|-------|-------------------------|-------|-----------------|-------|
| 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                    | 19957 | 6.10            | 13    | 1711.5                  | 19965 | 6.18            | 13    |
| 1732.5                    | 20175 | 6.09            | 13    | 1732.5                  | 20175 | 6.12            | 13    |
| 1754.3                    | 20393 | 6.13            | 13    | 1753.5                  | 20385 | 6.17            | 13    |

| LTE BAND 4              |       |                 |       |                          |       |                 |       |
|-------------------------|-------|-----------------|-------|--------------------------|-------|-----------------|-------|
| 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                  | 19957 | 6.05            | 13    | 1715.0                   | 20000 | 5.98            | 13    |
| 1732.5                  | 20175 | 6.01            | 13    | 1732.5                   | 20175 | 6.02            | 13    |
| 1752.5                  | 20375 | 6.16            | 13    | 1750.0                   | 20350 | 6.12            | 13    |

| LTE BAND 4               |       |                 |       |                          |       |                 |       |
|--------------------------|-------|-----------------|-------|--------------------------|-------|-----------------|-------|
| 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                   | 20025 | 6.13            | 13    | 1720.0                   | 20050 | 6.61            | 13    |
| 1732.5                   | 20175 | 6.18            | 13    | 1732.5                   | 20175 | 6.58            | 13    |
| 1747.5                   | 20325 | 6.14            | 13    | 1745.0                   | 20300 | 6.59            | 13    |

| LTE BAND 5                |       |                 |       |                         |       |                 |       |
|---------------------------|-------|-----------------|-------|-------------------------|-------|-----------------|-------|
| Channel bandwidth: 1.4MHz |       |                 |       | Channel bandwidth: 3MHz |       |                 |       |
| Freq.<br>(MHz)            | CH    | Peak-to-Average |       | Freq.<br>(MHz)          | CH    | Peak-to-Average |       |
|                           |       | Ratio           | 16QAM |                         |       | Ratio           | 16QAM |
| 824.7                     | 20407 | 6.16            | 13    | 825.5                   | 20415 | 6.16            | 13    |
| 836.5                     | 20525 | 6.15            | 13    | 836.5                   | 20525 | 6.11            | 13    |
| 848.3                     | 20643 | 6.15            | 13    | 847.5                   | 20635 | 6.15            | 13    |

| LTE BAND 5              |       |                 |       |                          |       |                 |       |
|-------------------------|-------|-----------------|-------|--------------------------|-------|-----------------|-------|
| Channel bandwidth: 5MHz |       |                 |       | Channel bandwidth: 10MHz |       |                 |       |
| Freq.<br>(MHz)          | CH    | Peak-to-Average |       | Freq.<br>(MHz)           | CH    | Peak-to-Average |       |
|                         |       | 16QAM           | Limit |                          |       | 16QAM           | Limit |
| 826.5                   | 20425 | 6.05            | 13    | 829.0                    | 20450 | 6.12            | 13    |
| 836.5                   | 20525 | 6.10            | 13    | 836.5                    | 20525 | 6.06            | 13    |
| 846.5                   | 20625 | 5.97            | 13    | 844.0                    | 20600 | 6.03            | 13    |

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| LTE BAND 7              |       |                 |       |                          |       |                 |       |
|-------------------------|-------|-----------------|-------|--------------------------|-------|-----------------|-------|
| Channel bandwidth: 5MHz |       |                 |       | Channel bandwidth: 10MHz |       |                 |       |
| Freq.<br>(MHz)          | CH    | Peak-to-Average |       | Freq.<br>(MHz)           | CH    | Peak-to-Average |       |
|                         |       | 16QAM           | Limit |                          |       | 16QAM           | Limit |
| 2502.5                  | 20775 | 5.64            | 13    | 2505.0                   | 20800 | 5.84            | 13    |
| 2535.0                  | 21100 | 5.58            | 13    | 2535.0                   | 21100 | 5.63            | 13    |
| 2567.5                  | 21375 | 5.62            | 13    | 2565.0                   | 21350 | 5.88            | 13    |

| LTE BAND 7               |       |                 |       |                          |       |                 |       |
|--------------------------|-------|-----------------|-------|--------------------------|-------|-----------------|-------|
| Channel bandwidth: 15MHz |       |                 |       | Channel bandwidth: 20MHz |       |                 |       |
| Freq.<br>(MHz)           | CH    | Peak-to-Average |       | Freq.<br>(MHz)           | CH    | Peak-to-Average |       |
|                          |       | 16QAM           | Limit |                          |       | 16QAM           | Limit |
| 2507.5                   | 20825 | 6.16            | 13    | 2510                     | 20850 | 6.65            | 13    |
| 2535                     | 21100 | 6.02            | 13    | 2535                     | 21100 | 6.64            | 13    |
| 2562.5                   | 21375 | 6.15            | 13    | 2560                     | 21350 | 6.71            | 13    |

| LTE BAND 17             |       |                 |       |                          |       |                 |       |
|-------------------------|-------|-----------------|-------|--------------------------|-------|-----------------|-------|
| Channel bandwidth: 5MHz |       |                 |       | Channel bandwidth: 10MHz |       |                 |       |
| Freq.<br>(MHz)          | CH    | Peak-to-Average |       | Freq.<br>(MHz)           | CH    | Peak-to-Average |       |
|                         |       | 16QAM           | Limit |                          |       | 16QAM           | Limit |
| 706.5                   | 23755 | 6.01            | 13    | 709                      | 23780 | 6.22            | 13    |
| 710                     | 23790 | 6.00            | 13    | 710                      | 23790 | 6.03            | 13    |
| 713.5                   | 23825 | 6.76            | 13    | 711                      | 23780 | 5.97            | 13    |

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| LTE BAND 38             |       |                 |       |                          |       |                 |       |
|-------------------------|-------|-----------------|-------|--------------------------|-------|-----------------|-------|
| Channel bandwidth: 5MHz |       |                 |       | Channel bandwidth: 10MHz |       |                 |       |
| Freq.<br>(MHz)          | CH    | Peak-to-Average |       | Freq.<br>(MHz)           | CH    | Peak-to-Average |       |
|                         |       | 16QAM           | Limit |                          |       | 16QAM           | Limit |
| 2572.5                  | 37775 | 9.01            | 13    | 2575                     | 37800 | 8.27            | 13    |
| 2595                    | 38000 | 9.05            | 13    | 2595                     | 38000 | 8.66            | 13    |
| 2617.5                  | 38225 | 8.12            | 13    | 2615                     | 38200 | 10.16           | 13    |

| LTE BAND 38              |       |                 |       |                          |       |                 |       |
|--------------------------|-------|-----------------|-------|--------------------------|-------|-----------------|-------|
| Channel bandwidth: 15MHz |       |                 |       | Channel bandwidth: 20MHz |       |                 |       |
| Freq.<br>(MHz)           | CH    | Peak-to-Average |       | Freq.<br>(MHz)           | CH    | Peak-to-Average |       |
|                          |       | 16QAM           | Limit |                          |       | 16QAM           | Limit |
| 2577.5                   | 37825 | 7.65            | 13    | 2580.0                   | 37850 | 8.77            | 13    |
| 2595                     | 38000 | 8.29            | 13    | 2595.0                   | 38000 | 8.64            | 13    |
| 2612.5                   | 38175 | 8.52            | 13    | 2610.0                   | 38150 | 9.68            | 13    |

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f (886-2) 2298-0488

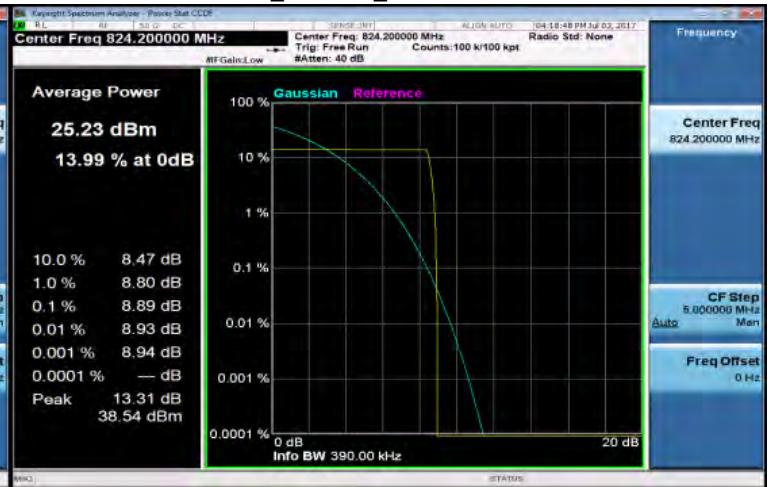
[www.tw.sgs.com](http://www.tw.sgs.com)

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GSM\_850MHz\_LowCH128-824.2



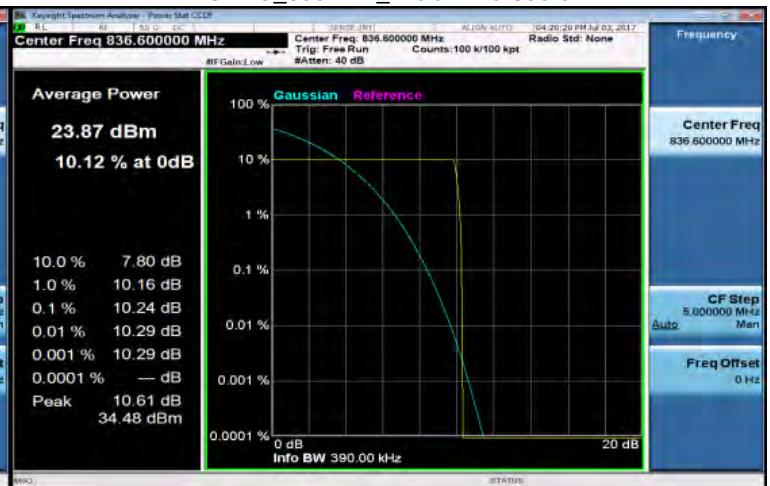
GPRS\_850MHz\_LowCH128-824.2



GSM\_850MHz\_MidCH190-836.6



GPRS\_850MHz\_MidCH190-836.6



GSM\_850MHz\_HighCH251-848.8



GPRS\_850MHz\_HighCH251-848.8



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EDGE\_850MHz\_LowCH128-824.2



GSM\_1900MHz\_LowCH512-1850.2



EDGE\_850MHz\_MidCH190-836.6



GSM\_1900MHz\_MidCH661-1880



EDGE\_850MHz\_HighCH251-848.8



GSM\_1900MHz\_HighCH810-1909.8

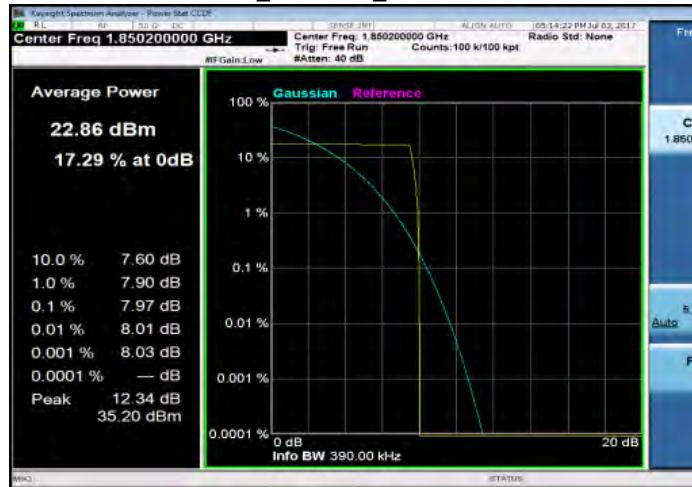


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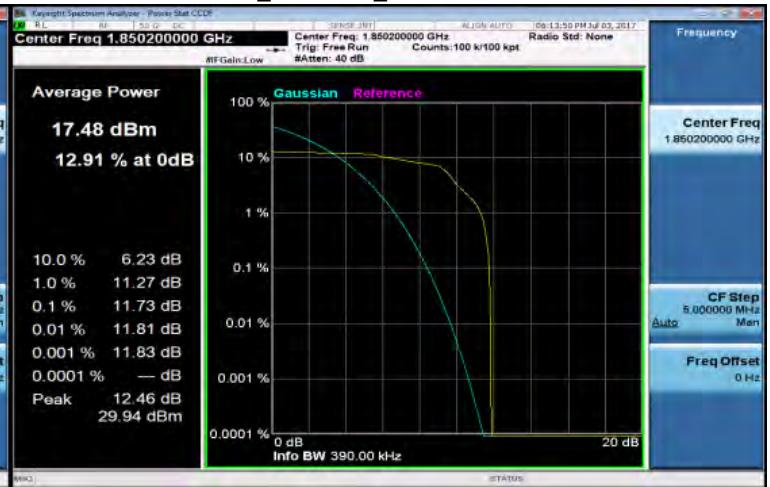
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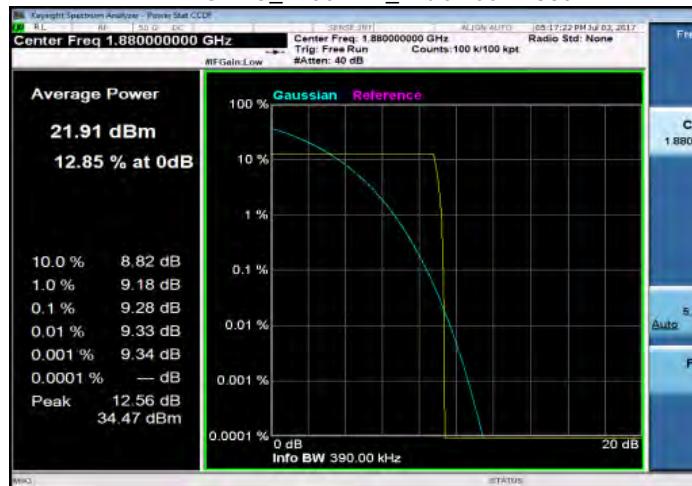
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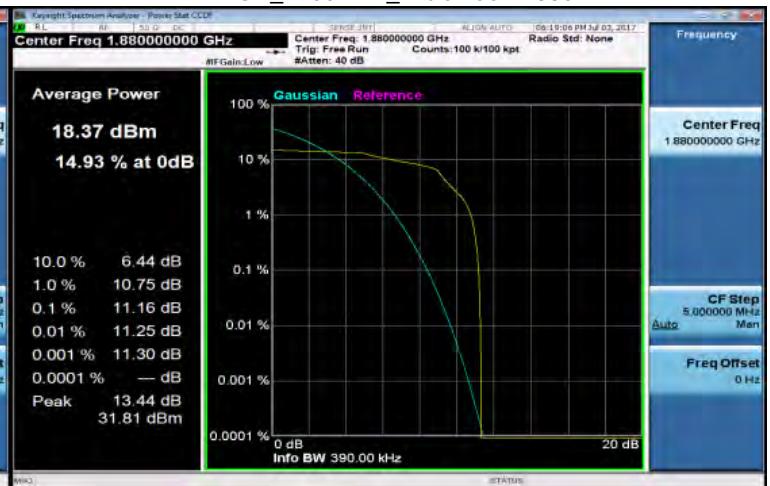
EDGE\_1900MHz\_LowCH512-1850.2



GPRS\_1900MHz\_MidCH661-1880



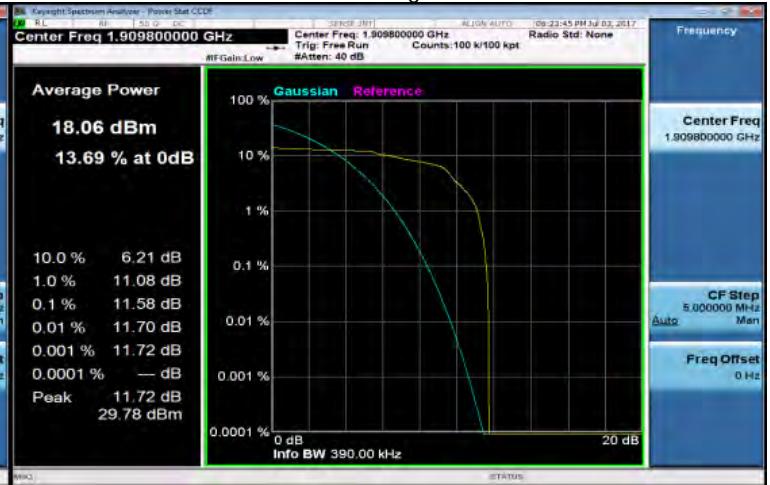
EDGE\_1900MHz\_MidCH661-1880



GPRS\_1900MHz\_HighCH810-1909.8



EDGE\_1900MHz\_HighCH810-1909.8



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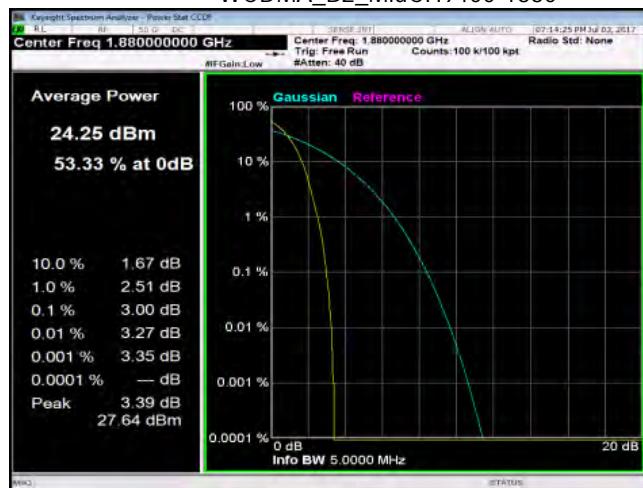
WCDMA\_B2\_LowCH9262-1852.4



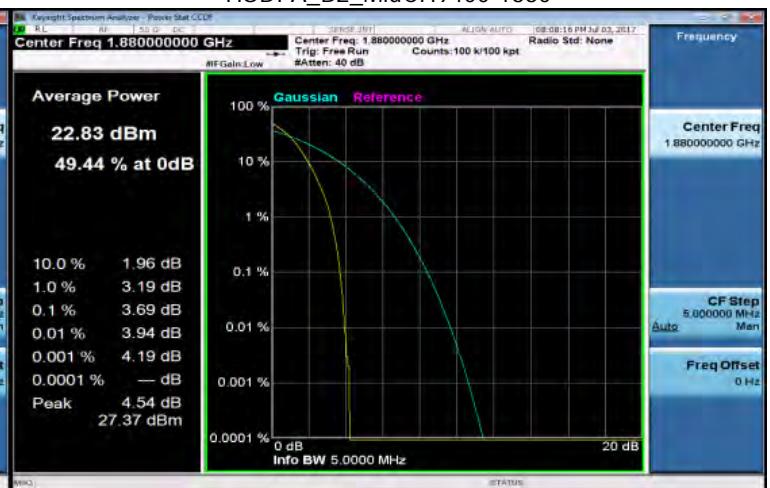
HSDPA\_B2\_LowCH9262-1852.4



WCDMA\_B2\_MidCH9400-1880



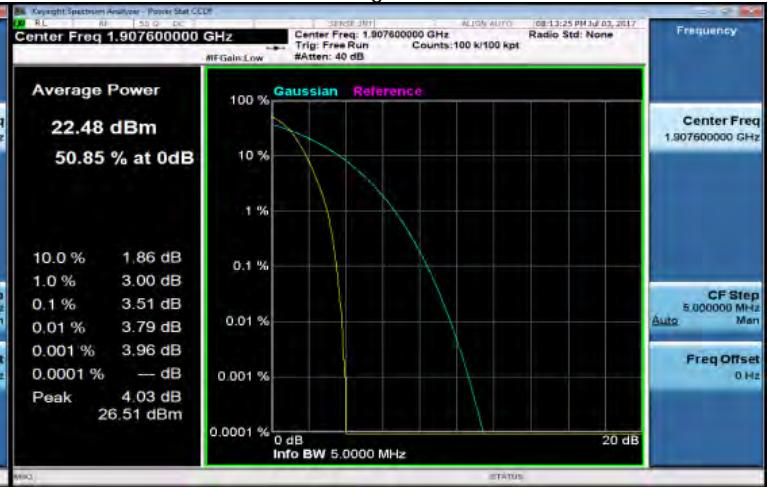
HSDPA\_B2\_MidCH9400-1880



WCDMA\_B2\_HighCH9538-1907.6



HSDPA\_B2\_HighCH9538-1907.6



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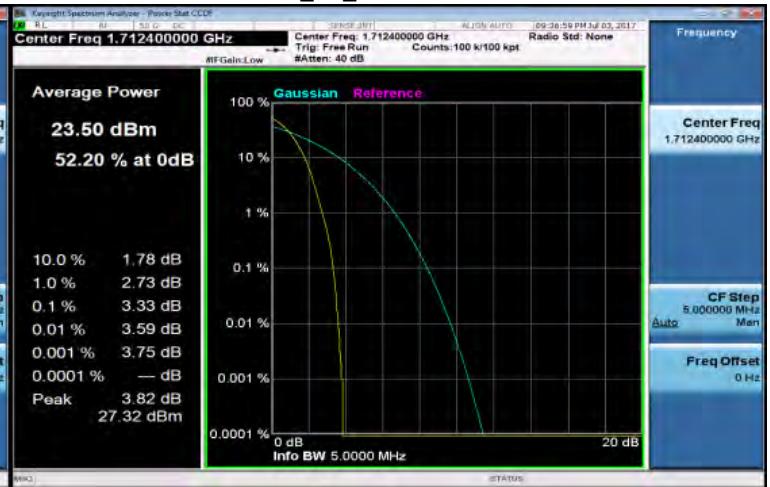
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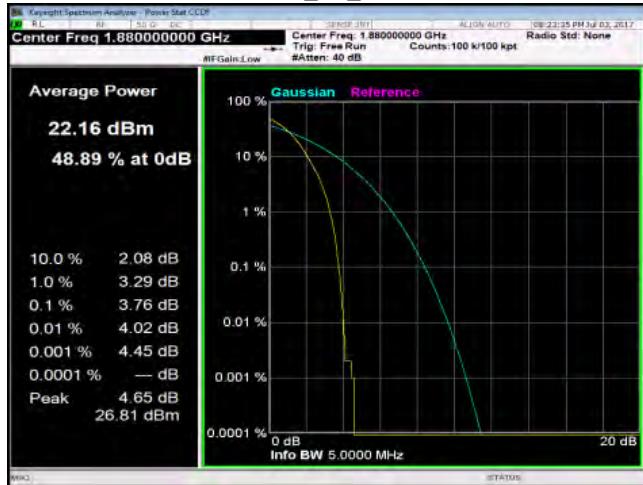
HSUPA\_B2\_LowCH9262-1852.4



WCDMA\_B4\_LowCH1312-1712.4



HSUPA\_B2\_MidCH9400-1880



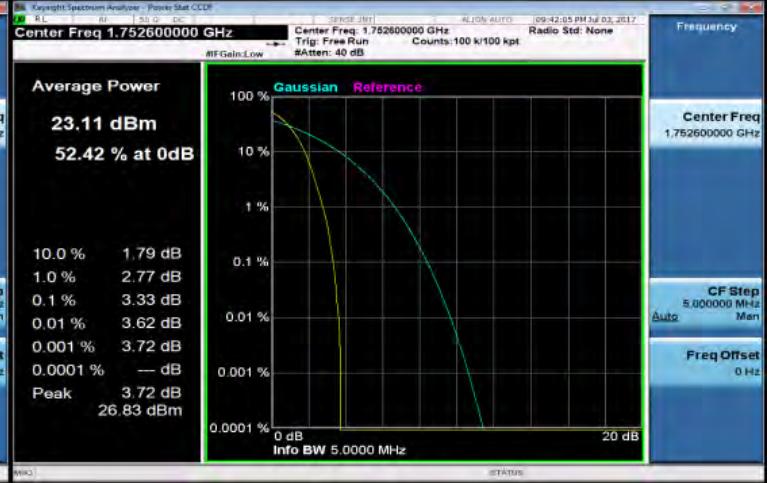
WCDMA\_B4\_MidCH1413-1732.6



HSUPA\_B2\_HighCH9538-1907.6



WCDMA\_B4\_HighCH1513-1752.6



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HSDPA\_B4\_LowCH1312-1712.4



HSUPA\_B4\_LowCH1312-1712.4



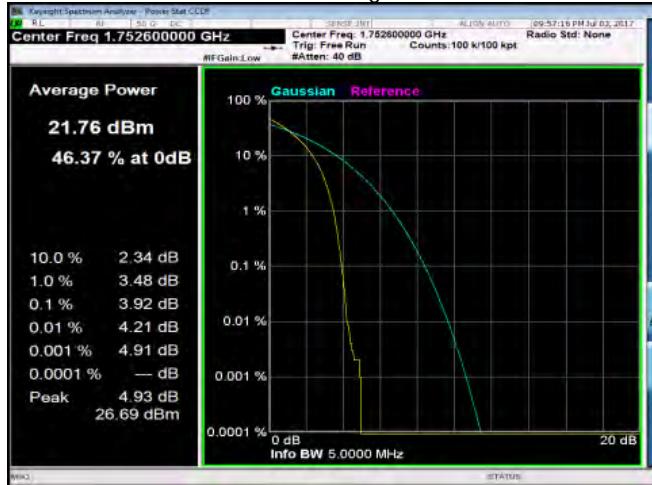
HSDPA\_B4\_MidCH1413-1732.6



HSUPA\_B4\_MidCH1413-1732.6



HSDPA\_B4\_HighCH1513-1752.6



HSUPA\_B4\_HighCH1513-1752.6



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WCDMA\_B5\_LowCH4132-826.4



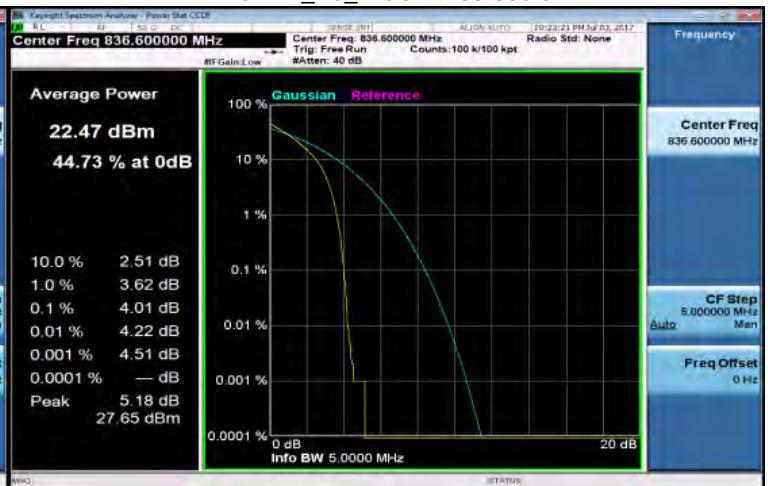
HSDPA\_B5\_LowCH4132-826.4



WCDMA\_B5\_MidCH4183-836.6



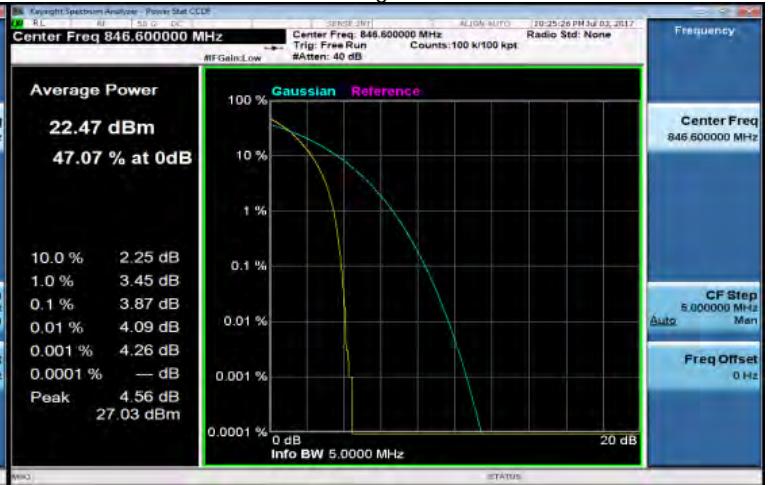
HSDPA\_B5\_MidCH4183-836.6



WCDMA\_B5\_HighCH4233-846.6



HSDPA\_B5\_HighCH4233-846.6



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HSUPA\_B5\_LowCH4132-826.4



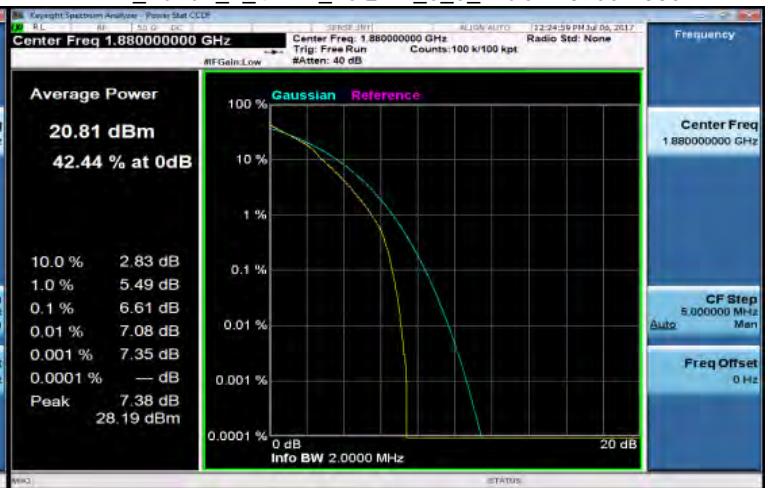
LTE\_Band2\_1\_4MHz\_16QAM\_6\_0\_LowCH18607-1850.7



HSUPA\_B5\_MidCH4183-836.6



LTE\_Band2\_1\_4MHz\_16QAM\_6\_0\_MidCH18900-1880



HSUPA\_B5\_HighCH4233-846.6



LTE\_Band2\_1\_4MHz\_16QAM\_6\_0\_HighCH19193-1909.3



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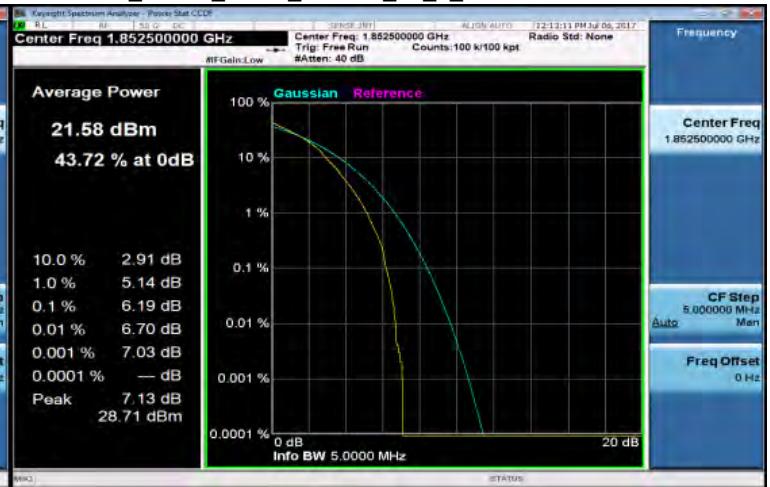
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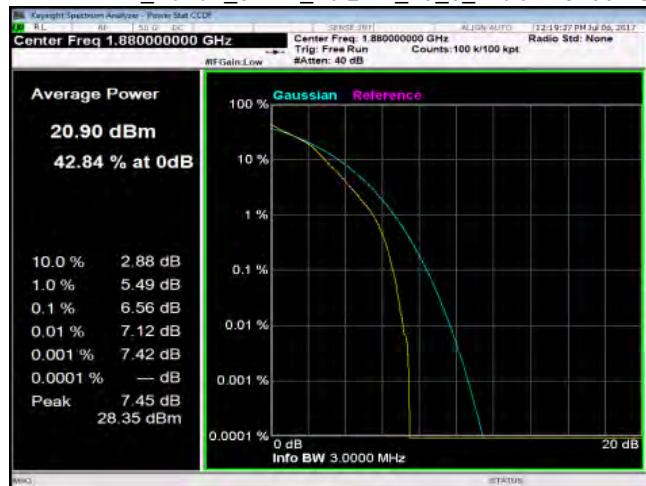
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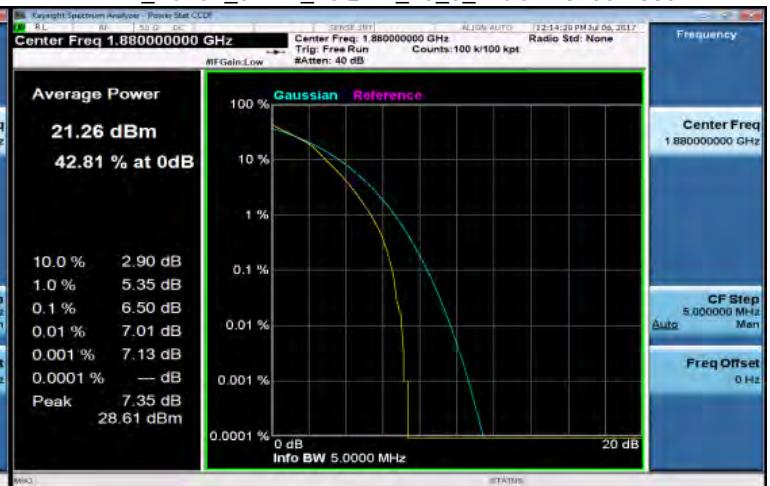
LTE\_Band2\_5MHz\_16QAM\_25\_0\_LowCH18625-1852.5



LTE\_Band2\_3MHz\_16QAM\_15\_0\_MidCH18900-1880



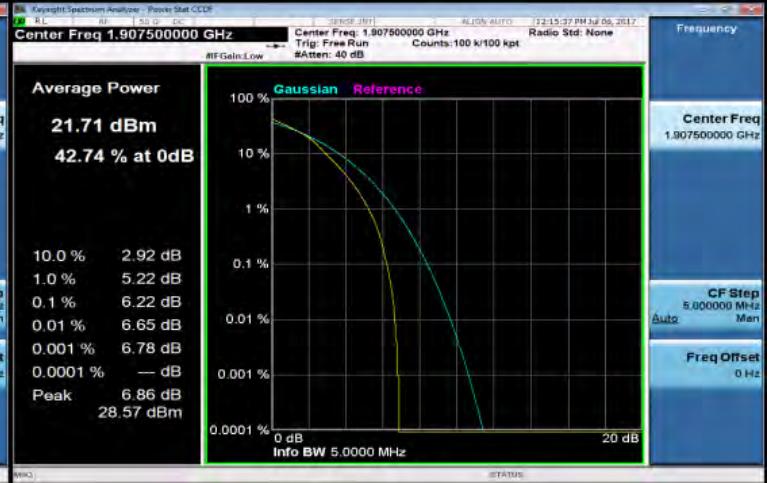
LTE\_Band2\_5MHz\_16QAM\_25\_0\_MidCH18900-1880



LTE\_Band2\_3MHz\_16QAM\_15\_0\_HighCH19185-1908.5



LTE\_Band2\_5MHz\_16QAM\_25\_0\_HighCH19175-1907.5



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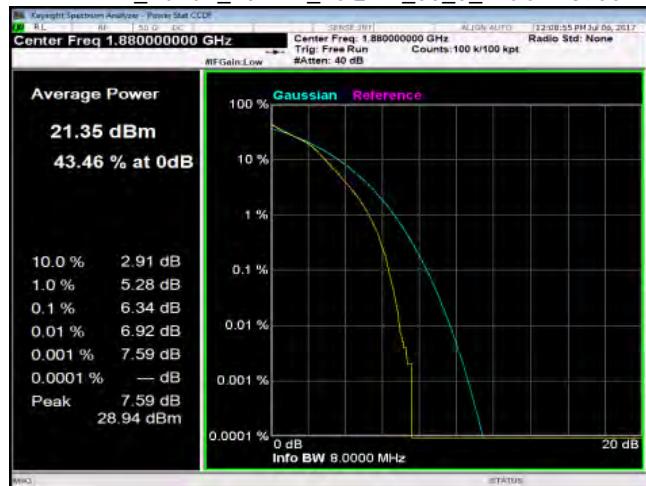
LTE\_Band2\_10MHz\_16QAM\_50\_0\_LowCH18650-1855



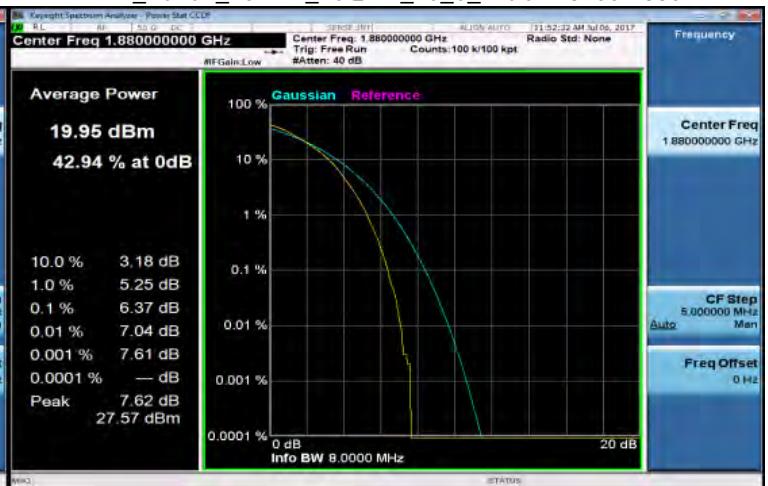
LTE\_Band2\_15MHz\_16QAM\_75\_0\_LowCH18675-1857.5



LTE\_Band2\_10MHz\_16QAM\_50\_0\_MidCH18900-1880



LTE\_Band2\_15MHz\_16QAM\_75\_0\_MidCH18900-1880



LTE\_Band2\_10MHz\_16QAM\_50\_0\_HighCH19150-1905



LTE\_Band2\_15MHz\_16QAM\_75\_0\_HighCH19125-1902.5



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LTE\_Band2\_20MHz\_16QAM\_100\_0\_LowCH18700-1860



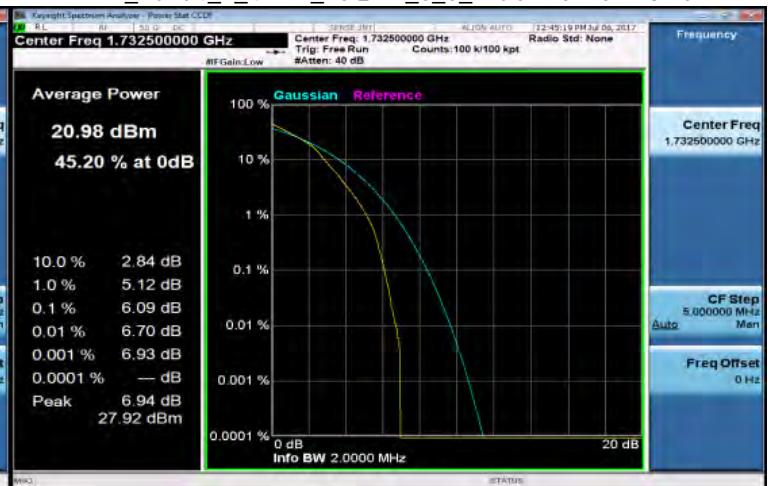
LTE\_Band4\_1\_4MHz\_16QAM\_6\_0\_LowCH19957-1710.7



LTE\_Band2\_20MHz\_16QAM\_100\_0\_MidCH18900-1880



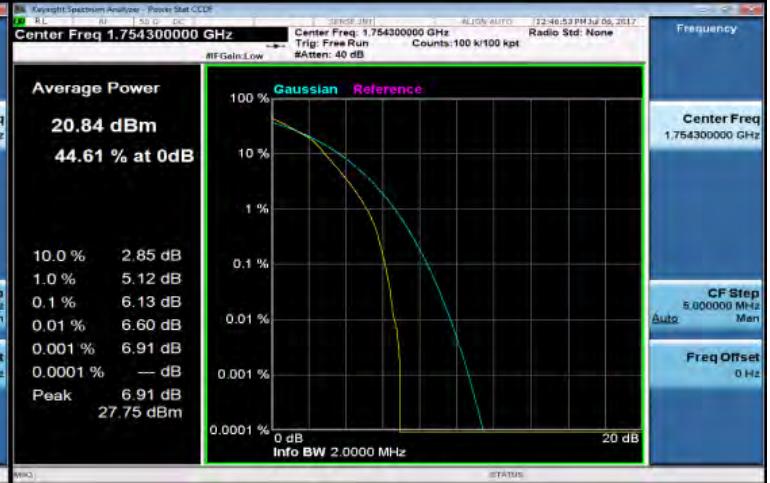
LTE\_Band4\_1\_4MHz\_16QAM\_6\_0\_MidCH20175-1732.5



LTE\_Band2\_20MHz\_16QAM\_100\_0\_HighCH19100-1900



LTE\_Band4\_1\_4MHz\_16QAM\_6\_0\_HighCH20393-1754.3



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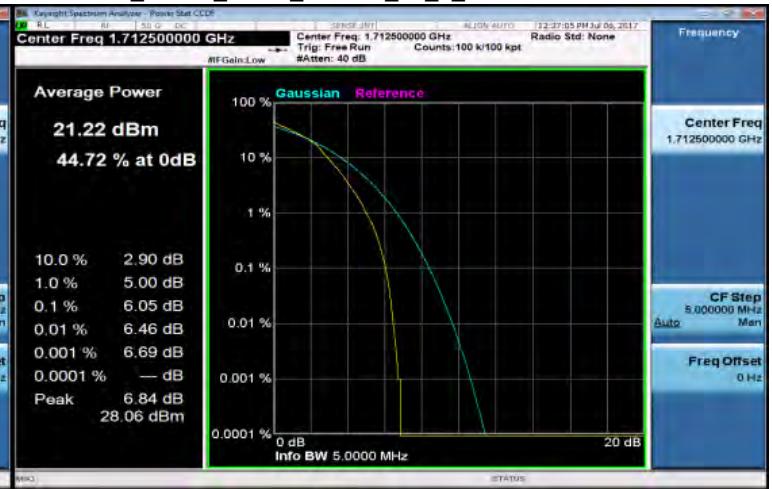
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LTE\_Band4\_3MHz\_16QAM\_15\_0\_LowCH19965-1711.5



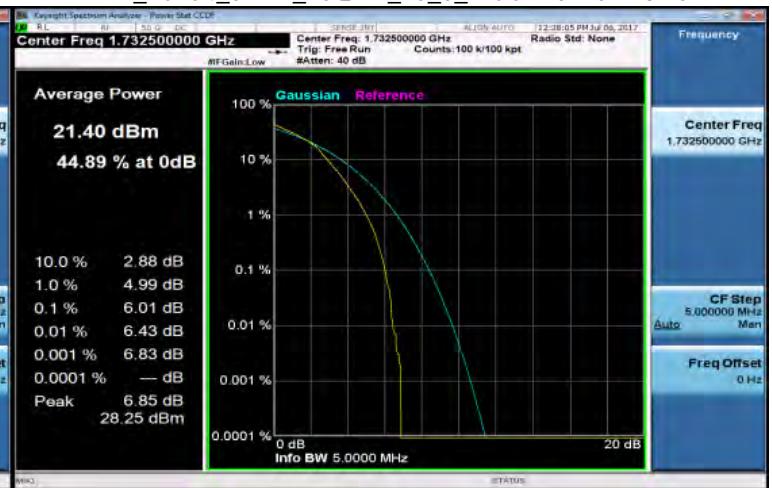
LTE\_Band4\_5MHz\_16QAM\_25\_0\_LowCH19975-1712.5



LTE\_Band4\_3MHz\_16QAM\_15\_0\_MidCH20175-1732.5



LTE\_Band4\_5MHz\_16QAM\_25\_0\_MidCH20175-1732.5



LTE\_Band4\_3MHz\_16QAM\_15\_0\_HighCH20385-1753.5



LTE\_Band4\_5MHz\_16QAM\_25\_0\_HighCH20375-1752.5



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LTE\_Band4\_10MHz\_16QAM\_50\_0\_LowCH20000-1715



LTE\_Band4\_15MHz\_16QAM\_75\_0\_LowCH20025-1717.5



LTE\_Band4\_10MHz\_16QAM\_50\_0\_MidCH20175-1732.5



LTE\_Band4\_15MHz\_16QAM\_75\_0\_MidCH20175-1732.5



LTE\_Band4\_10MHz\_16QAM\_50\_0\_HighCH20350-1750



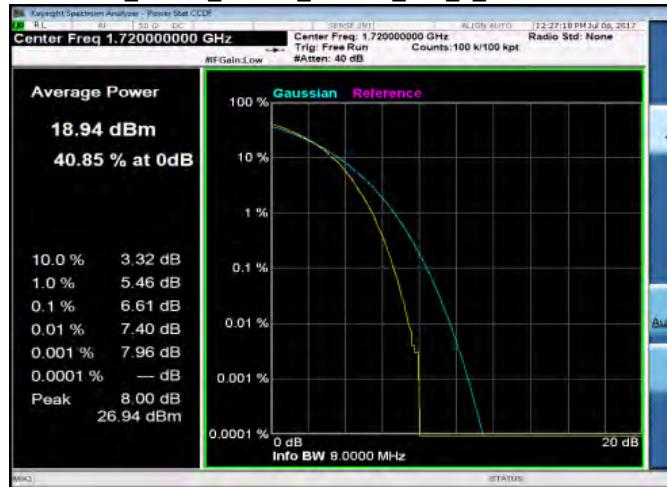
LTE\_Band4\_15MHz\_16QAM\_75\_0\_HighCH20325-1747.5



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LTE\_Band4\_20MHz\_16QAM\_100\_0\_LowCH20050-1720



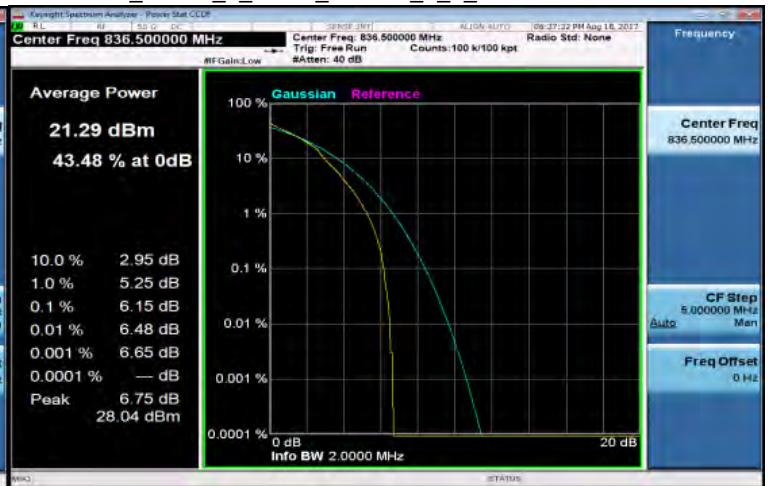
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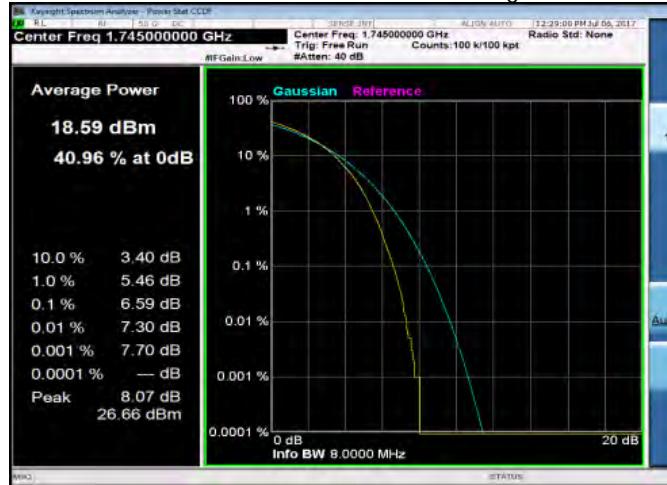
LTE\_Band4\_20MHz\_16QAM\_100\_0\_MidCH20175-1732.5



LTE\_Band5\_1\_4MHz\_16QAM\_6\_0\_MidCH20525-836.5



LTE\_Band4\_20MHz\_16QAM\_100\_0\_HighCH20300-1745



LTE\_Band5\_1\_4MHz\_16QAM\_6\_0\_HighCH20643-848.3



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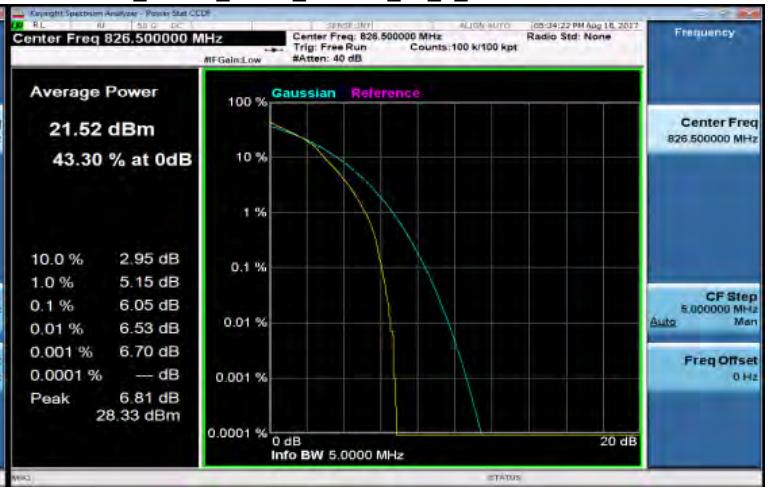
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LTE\_Band5\_3MHz\_16QAM\_15\_0\_LowCH20415-825.5



LTE\_Band5\_5MHz\_16QAM\_25\_0\_LowCH20425-826.5



LTE\_Band5\_3MHz\_16QAM\_15\_0\_MidCH20525-836.5



LTE\_Band5\_5MHz\_16QAM\_25\_0\_MidCH20525-836.5



LTE\_Band5\_3MHz\_16QAM\_15\_0\_HighCH20635-847.5



LTE\_Band5\_5MHz\_16QAM\_25\_0\_HighCH20625-846.5



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LTE\_Band5\_10MHz\_16QAM\_50\_0\_LowCH20450-829



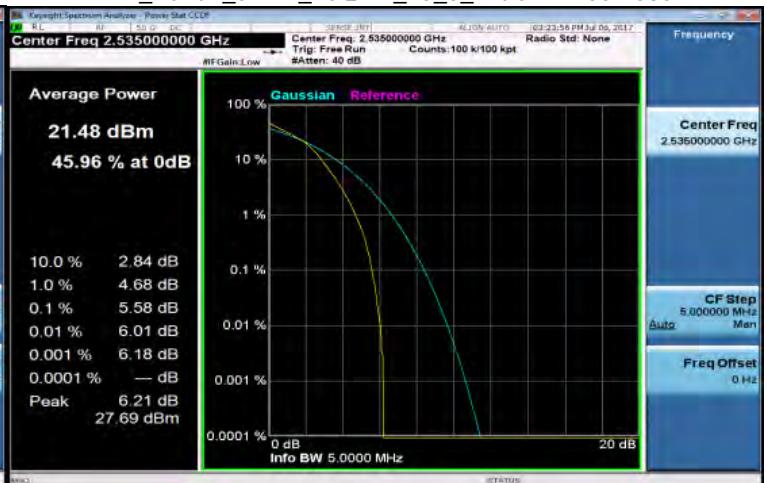
LTE\_Band7\_5MHz\_16QAM\_25\_0\_LowCH20775-2502.5



LTE\_Band5\_10MHz\_16QAM\_50\_0\_MidCH20525-836.5



LTE\_Band7\_5MHz\_16QAM\_25\_0\_MidCH21100-2535



LTE\_Band5\_10MHz\_16QAM\_50\_0\_HighCH20600-844



LTE\_Band7\_5MHz\_16QAM\_25\_0\_HighCH21425-2567.5

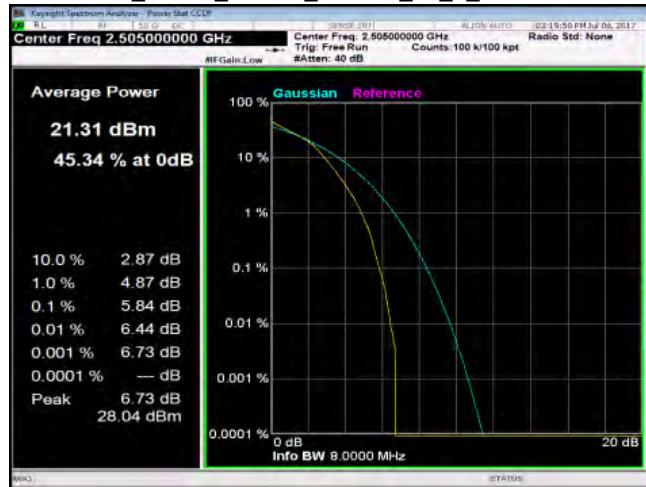


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LTE\_Band7\_10MHz\_16QAM\_50\_0\_LowCH20800-2505



LTE\_Band7\_15MHz\_16QAM\_75\_0\_LowCH20825-2507.5



LTE\_Band7\_10MHz\_16QAM\_50\_0\_MidCH21100-2535



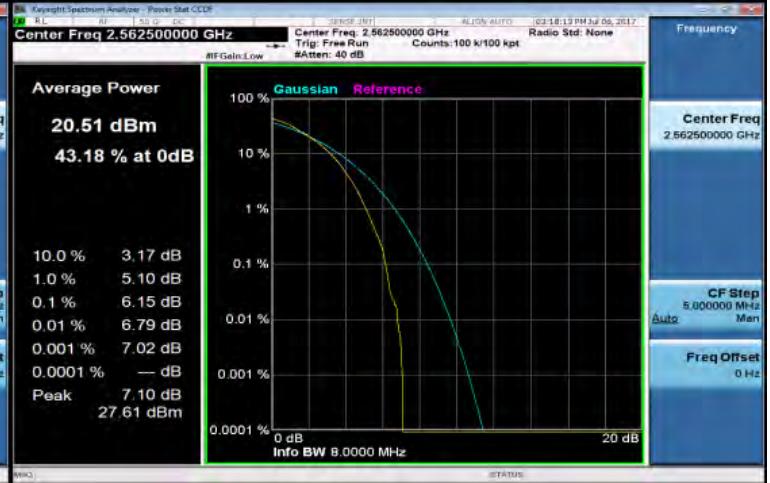
LTE\_Band7\_15MHz\_16QAM\_75\_0\_MidCH21100-2535



LTE\_Band7\_10MHz\_16QAM\_50\_0\_HighCH21400-2565



LTE\_Band7\_15MHz\_16QAM\_75\_0\_HighCH21375-2562.5



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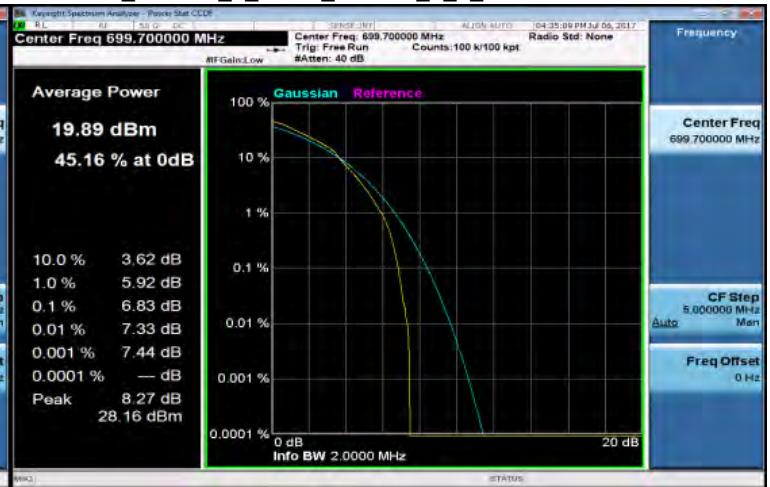
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LTE\_Band7\_20MHz\_16QAM\_100\_0\_LowCH20850-2510



LTE\_Band12\_1\_4MHz\_16QAM\_6\_0\_LowCH23017-699.7



LTE\_Band7\_20MHz\_16QAM\_100\_0\_MidCH21100-2535



LTE\_Band12\_1\_4MHz\_16QAM\_6\_0\_MidCH23095-707.5



LTE\_Band7\_20MHz\_16QAM\_100\_0\_HighCH21350-2560



LTE\_Band12\_1\_4MHz\_16QAM\_6\_0\_HighCH23173-715.3



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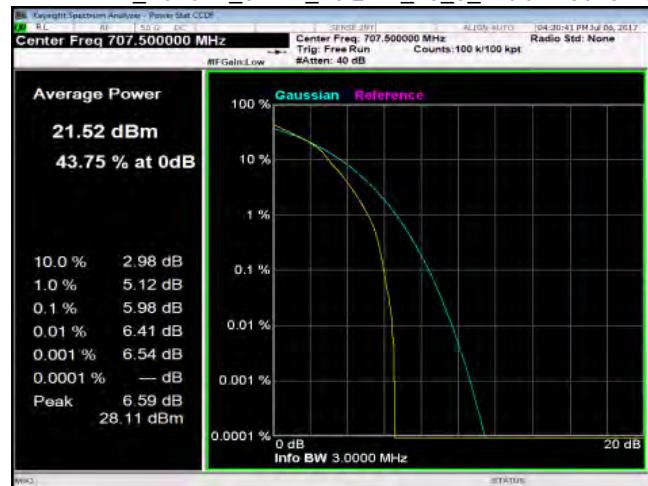
LTE\_Band12\_3MHz\_16QAM\_15\_0\_LowCH23025-700.5



LTE\_Band12\_5MHz\_16QAM\_25\_0\_LowCH23035-701.5



LTE\_Band12\_3MHz\_16QAM\_15\_0\_MidCH23095-707.5



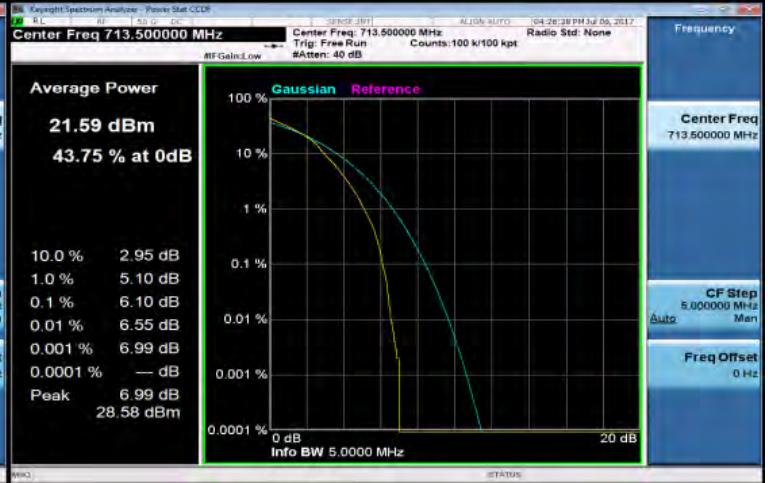
LTE\_Band12\_5MHz\_16QAM\_25\_0\_MidCH23095-707.5



LTE\_Band12\_3MHz\_16QAM\_15\_0\_HighCH23165-714.5



LTE\_Band12\_5MHz\_16QAM\_25\_0\_HighCH23155-713.5



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LTE\_Band12\_10MHz\_16QAM\_50\_0\_LowCH23060-704



LTE\_Band17\_5MHz\_16QAM\_25\_0\_LowCH23755-706.5



LTE\_Band12\_10MHz\_16QAM\_50\_0\_MidCH23095-707.5



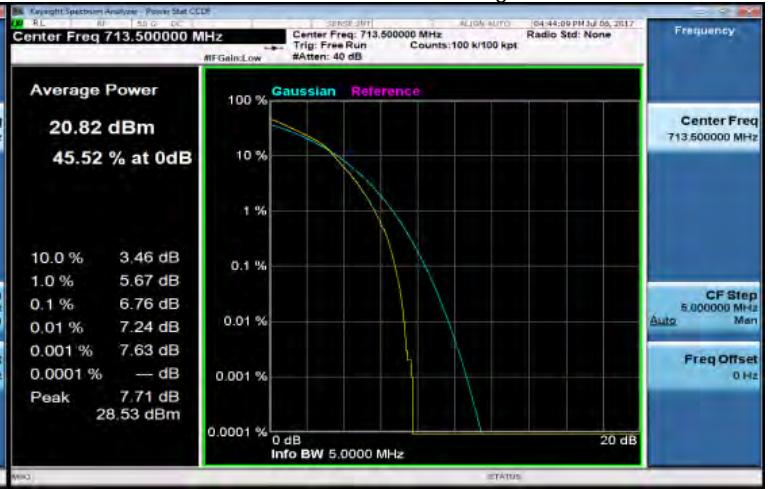
LTE\_Band17\_5MHz\_16QAM\_25\_0\_MidCH23790-710



LTE\_Band12\_10MHz\_16QAM\_50\_0\_HighCH23130-711



LTE\_Band17\_5MHz\_16QAM\_25\_0\_HighCH23825-713.5



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LTE\_Band17\_10MHz\_16QAM\_50\_0\_LowCH23780-709



LTE\_Band38\_5MHz\_16QAM\_25\_0\_LowCH37775-2572.5



LTE\_Band17\_10MHz\_16QAM\_50\_0\_MidCH23790-710



LTE\_Band38\_5MHz\_16QAM\_25\_0\_MidCH38000-2595



LTE\_Band17\_10MHz\_16QAM\_50\_0\_HighCH23800-711



LTE\_Band38\_5MHz\_16QAM\_25\_0\_HighCH38225-2617.5

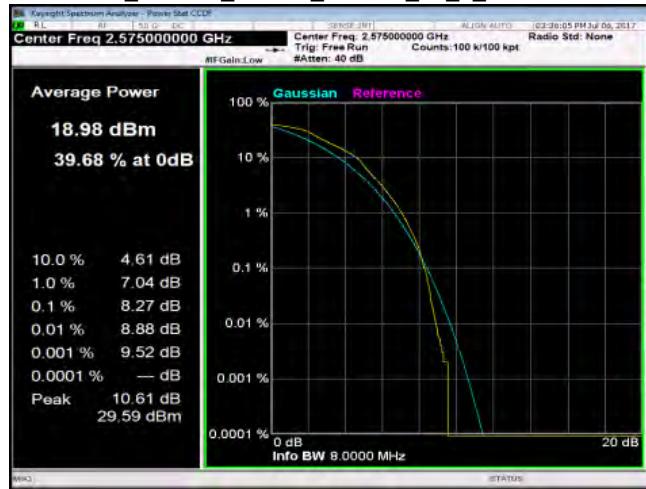


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LTE\_Band38\_10MHz\_16QAM\_50\_0\_LowCH37800-2575



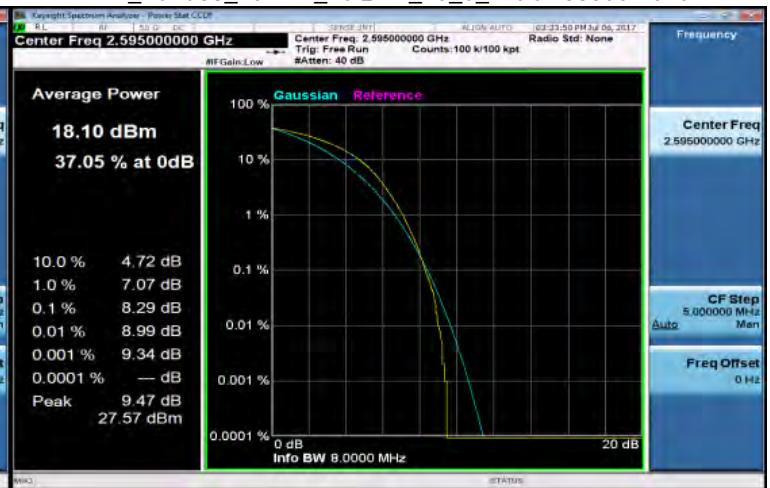
LTE\_Band38\_15MHz\_16QAM\_75\_0\_LowCH37825-2577.5



LTE\_Band38\_10MHz\_16QAM\_50\_0\_MidCH38000-2595



LTE\_Band38\_15MHz\_16QAM\_75\_0\_MidCH38000-2595



LTE\_Band38\_10MHz\_16QAM\_50\_0\_HighCH38200-2615



LTE\_Band38\_15MHz\_16QAM\_75\_0\_HighCH38175-2612.5



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LTE\_Band38\_20MHz\_16QAM\_100\_0\_LowCH37850-2580



LTE\_Band38\_20MHz\_16QAM\_100\_0\_HighCH38150-2610



LTE\_Band38\_20MHz\_16QAM\_100\_0\_MidCH38000-2595



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## 13. RSE ASSESSMENT FOR C2PC

### 13.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53(g)(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  $43 + 10 \log_{10}(p)$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

FCC §27.53 (m) (4) shall not be less than  $55 + 10 \log_{10}(p)$  (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

**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     | $43 + 10 \log_{10}(p)$ <sup>Note</sup> |
| 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     | $43 + 10 \log_{10}(p)$ <sup>Note</sup> |
| 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 5.2 for the permitted frequency ranges for various equipment types.

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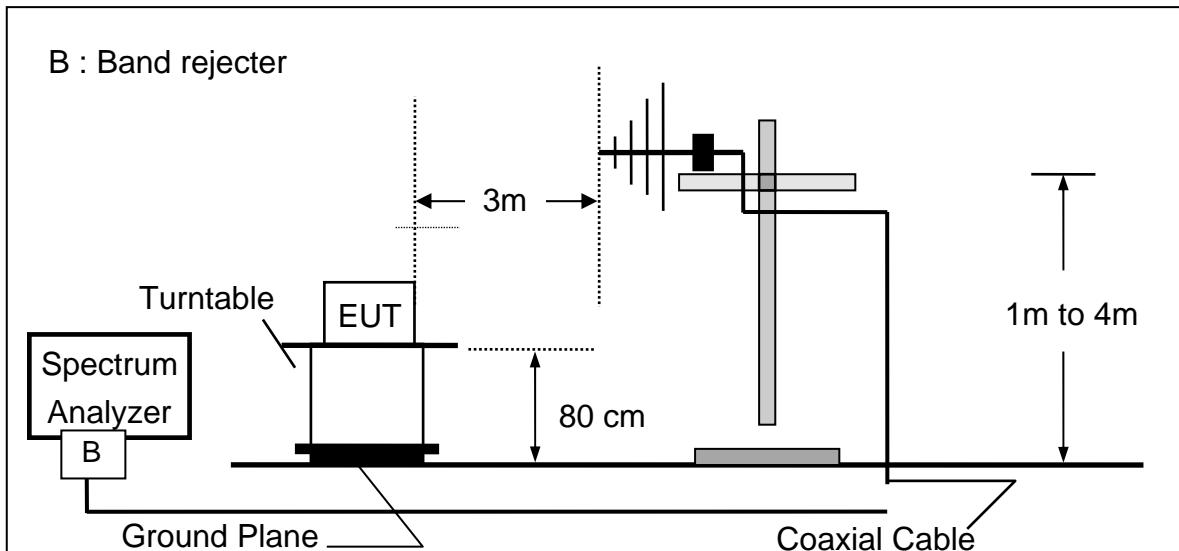
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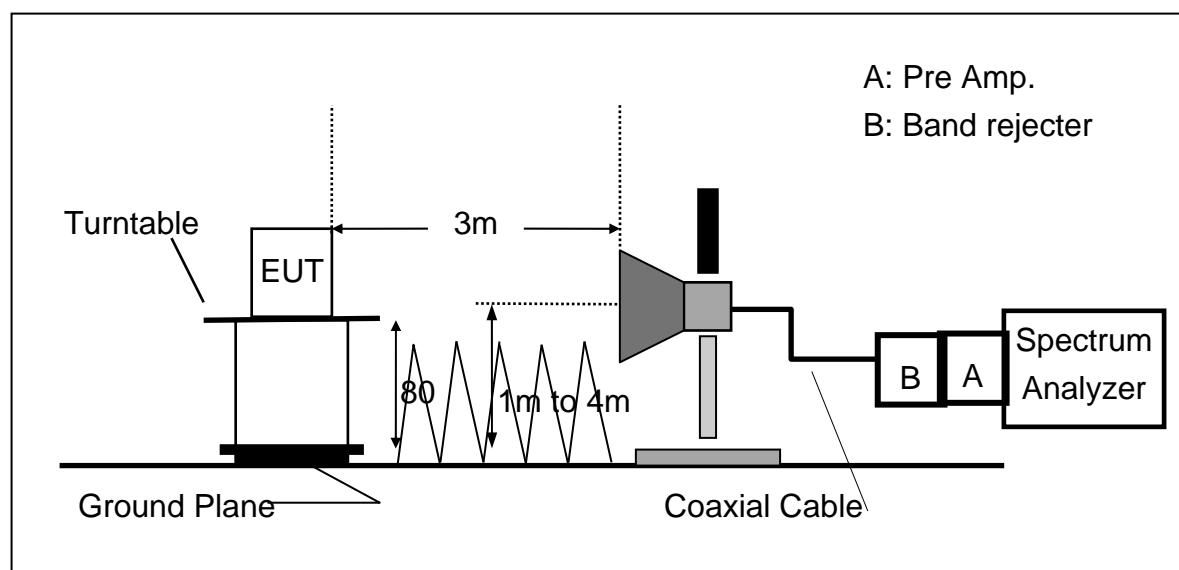
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### 13.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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### 13.3. 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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台灣檢驗科技股份有限公司

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Member of SGS Group

### 13.4. Measurement Equipment Used:

| ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber |                       |              |               |            |            |
|--|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                                   | MFR                   | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| EMI Test Receiver                                | R&S                   | ESCI7        | 100760        | 05/11/2017 | 05/10/2018 |
| Spectrum Analyzer                                | Agilent               | E4446A       | MY51100003    | 04/25/2017 | 04/24/2018 |
| Loop Antenna                                     | ETS-Lindgren          | 6502         | 148045        | 09/19/2017 | 09/18/2018 |
| Bilog Antenna                                    | SCHWAZBECK            | VULB9168     | 378           | 12/19/2016 | 12/18/2017 |
| Horn Antenna                                     | Schwarzbeck           | BBHA9120D    | 1441          | 08/04/2017 | 08/03/2018 |
| Pre-Amplifier                                    | Agilent               | 8447D        | 2944A07676    | 01/03/2017 | 01/02/2018 |
| Pre-Amplifier                                    | EMC Instruments Corp. | EMC0126530   | 980038        | 01/03/2017 | 01/02/2018 |
| Turn Table                                       | HD                    | DT420        | N/A           | N.C.R      | N.C.R      |
| Antenna Tower                                    | ChamPro               | AM-BS-4500-B | 060776-ABS    | N.C.R      | N.C.R      |
| Controller                                       | ChamPro               | EM1000       | 60776         | N.C.R      | N.C.R      |
| Low Loss Cable                                   | Huber Suhner          | 966_RX       | 9             | 01/05/2017 | 01/04/2018 |
| 3m Site NSA                                      | SGS                   | 966 chamber  | N/A           | 07/01/2017 | 06/30/2018 |
| Low Loss Cable                                   | Huber Suhner          | 966 TX       | 1             | 01/05/2017 | 01/04/2018 |
| Horn Antenna                                     | Schwarzbeck           | BBHA9170     | 184           | 12/12/2016 | 12/11/2017 |
| Pre-Amplifier                                    | EMC Instruments Corp. | EMC184045    | 980135        | 01/05/2017 | 01/04/2018 |
| Radio Communication Analyer                      | Anritsu               | MT8820C      | 6201465317    | 01/03/2017 | 01/02/2018 |

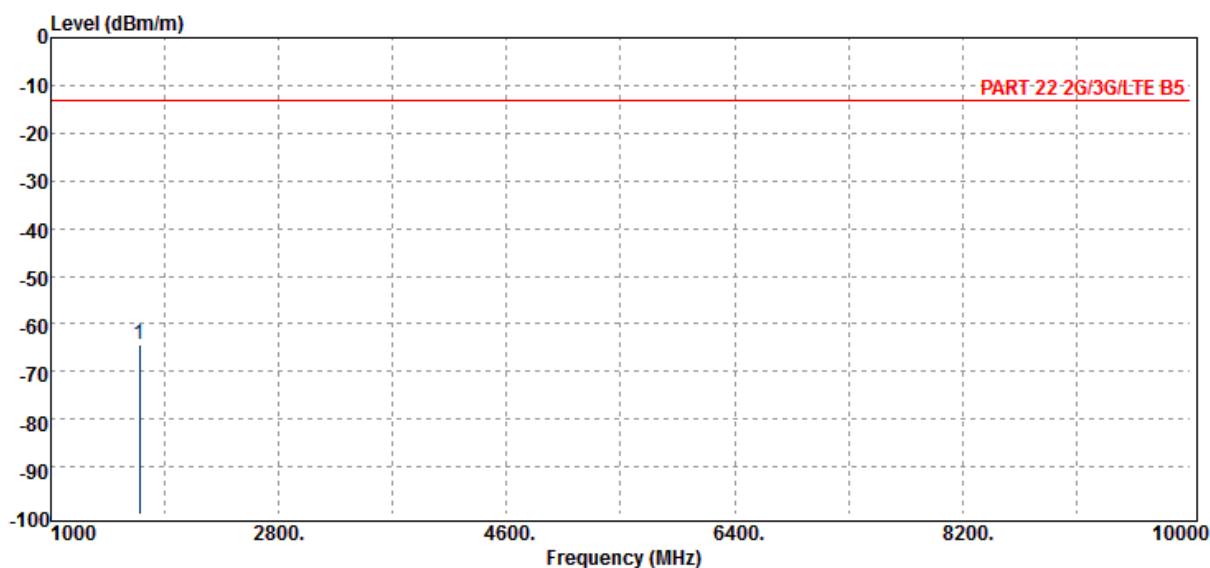
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Operation Band :GPRS 850  
 Fundamental Frequency :848.8 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



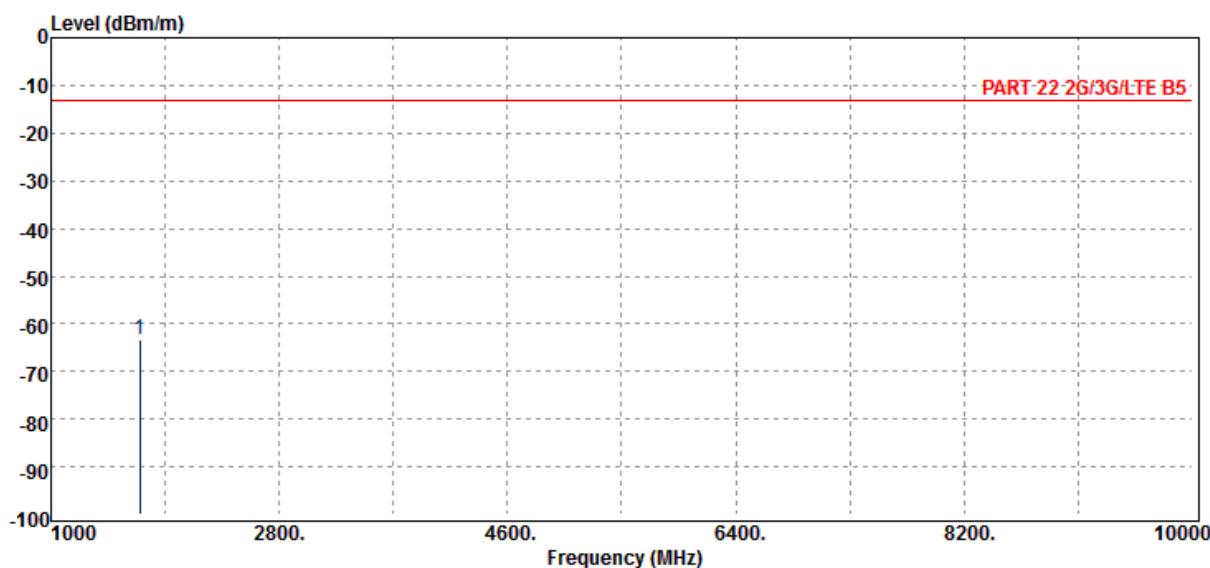
| Freq.<br>MHz | Note | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| F/H/E/S      |      |             |                           |                        |                     |              |              |
| 1697.60      | H    | -62.13      | -67.25                    | 9.43                   | -4.31               | -13          | -49.13       |

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Operation Band :GPRS 850  
 Fundamental Frequency :848.8 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :HORIZONTAL



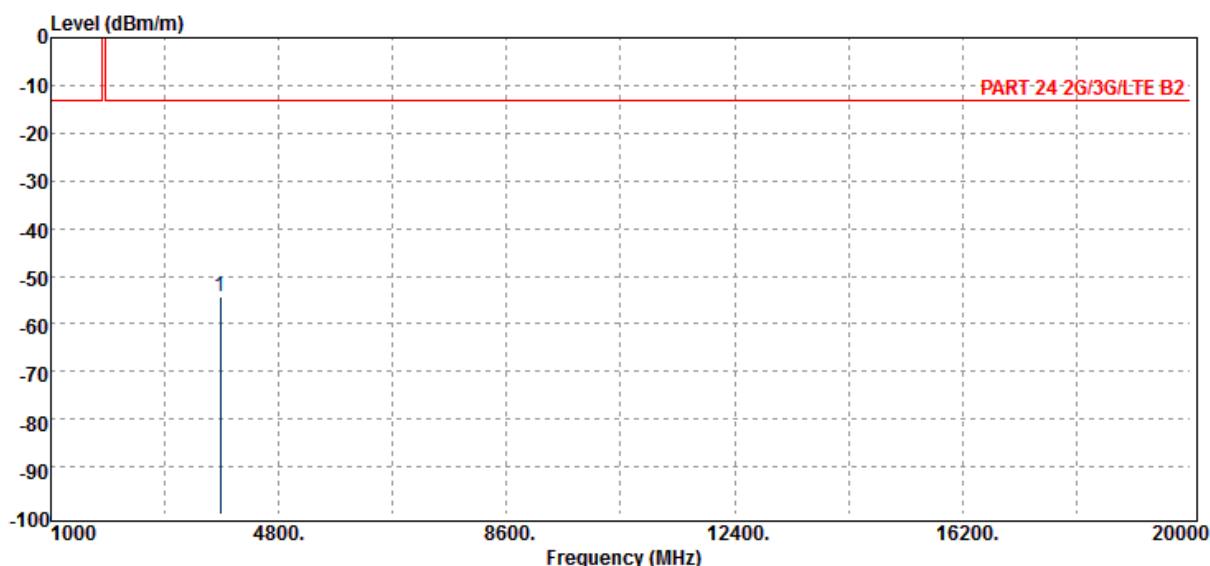
| Freq.<br>MHz | Note | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| F/H/E/S      |      |             |                           |                        |                     |              |              |
| 1697.60      | H    | -61.24      | -66.36                    | 9.43                   | -4.31               | -13          | -48.24       |

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Operation Band :GPRS 1900  
 Fundamental Frequency :1909.8 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



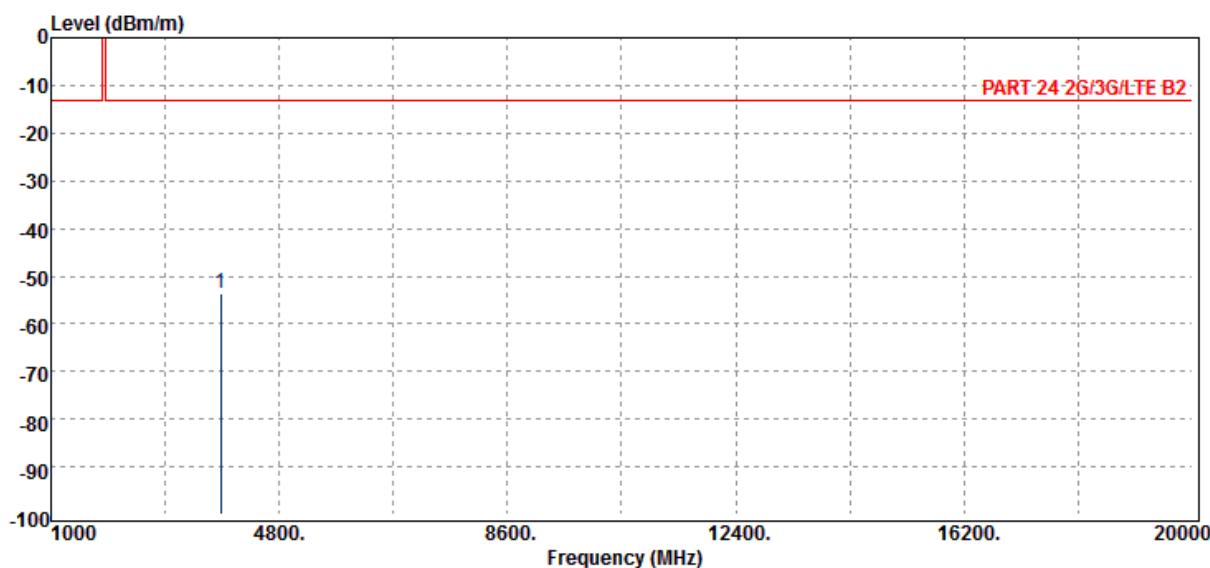
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| 3819.60      | H               | -54.31      | -60.12                    | 12.47                  | -6.65               | -13.00       | -41.31       |

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Operation Band :GPRS 1900  
 Fundamental Frequency :1909.8 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



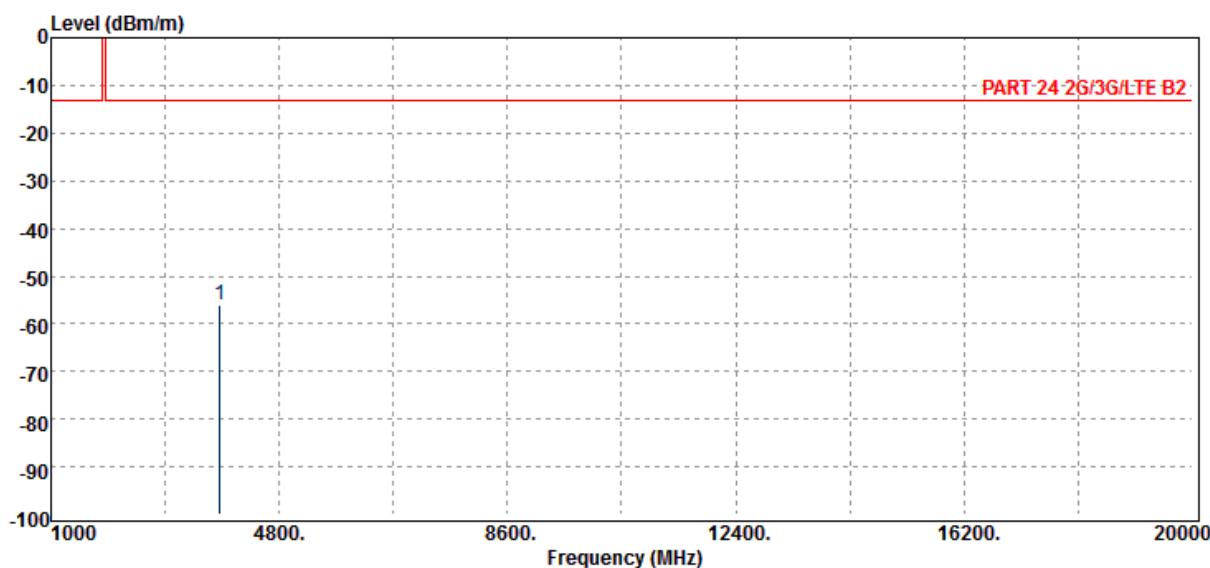
| Freq.   | Note    | EIRP   | SG           | Antenna | Cable | Limit  | Margin |
|---------|---------|--------|--------------|---------|-------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level | Gain    | Loss  |        |        |
| 3819.60 | H       | -53.69 | -59.51       | 12.47   | -6.65 | -13.00 | -40.69 |

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Operation Band :HSDPA B2  
 Fundamental Frequency :1907.6 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



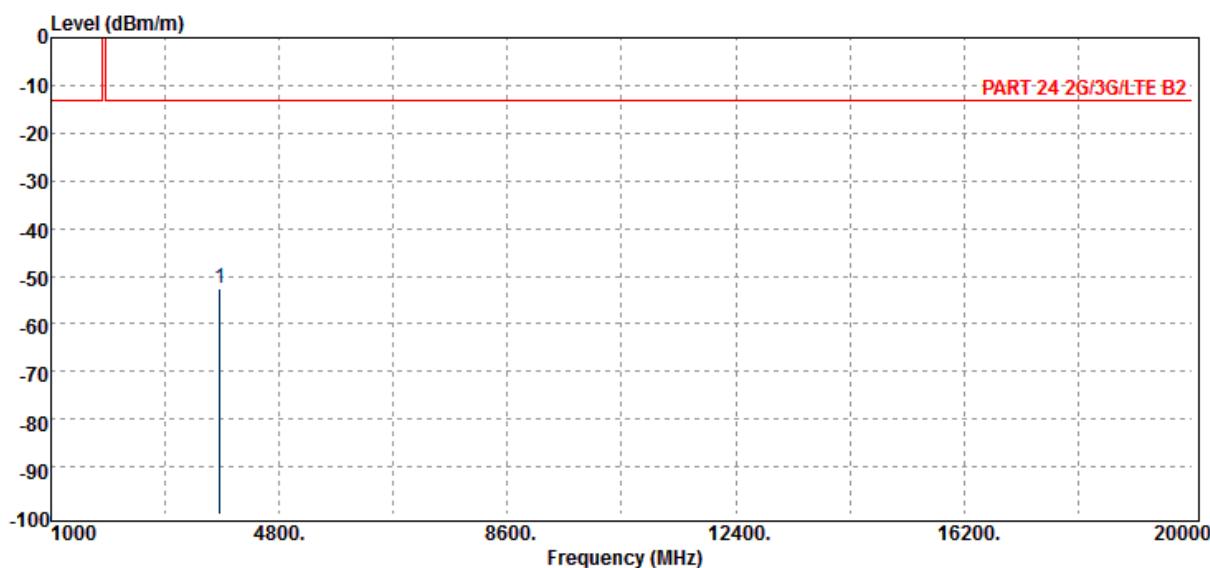
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| 3815.20      | H               | -56.01      | -61.84                    | 12.46                  | -6.63               | -13.00       | -43.01       |

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Operation Band :HSDPA B2  
 Fundamental Frequency :1907.6 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



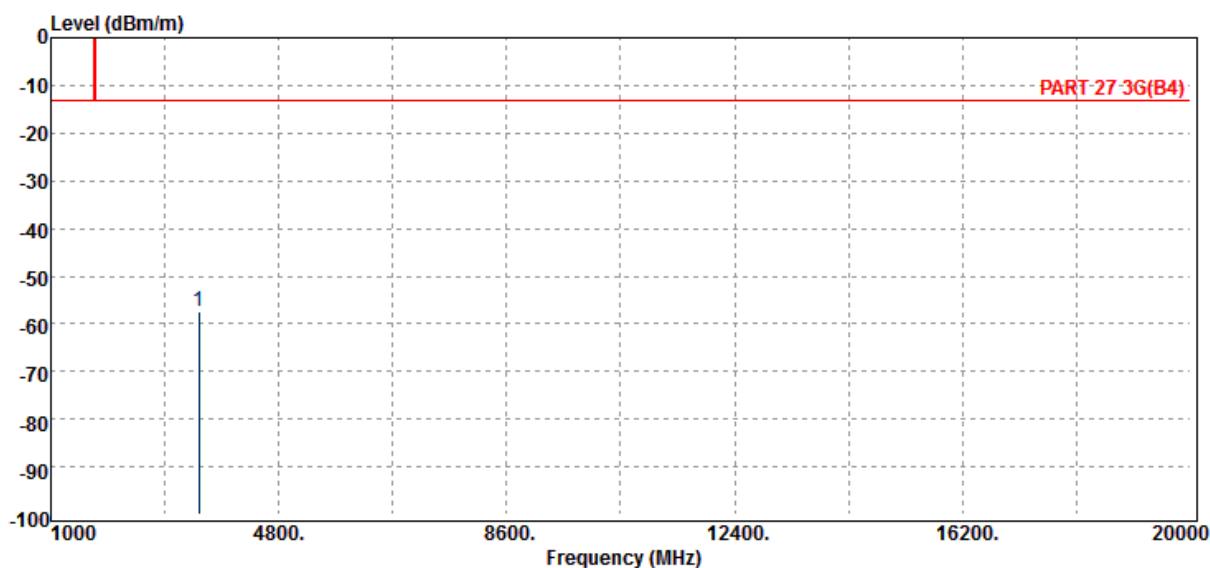
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| 3815.20      | H               | -52.52      | -58.36                    | 12.46                  | -6.63               | -13.00       | -39.52       |

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Operation Band :HSDPA B4  
 Fundamental Frequency :1732.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



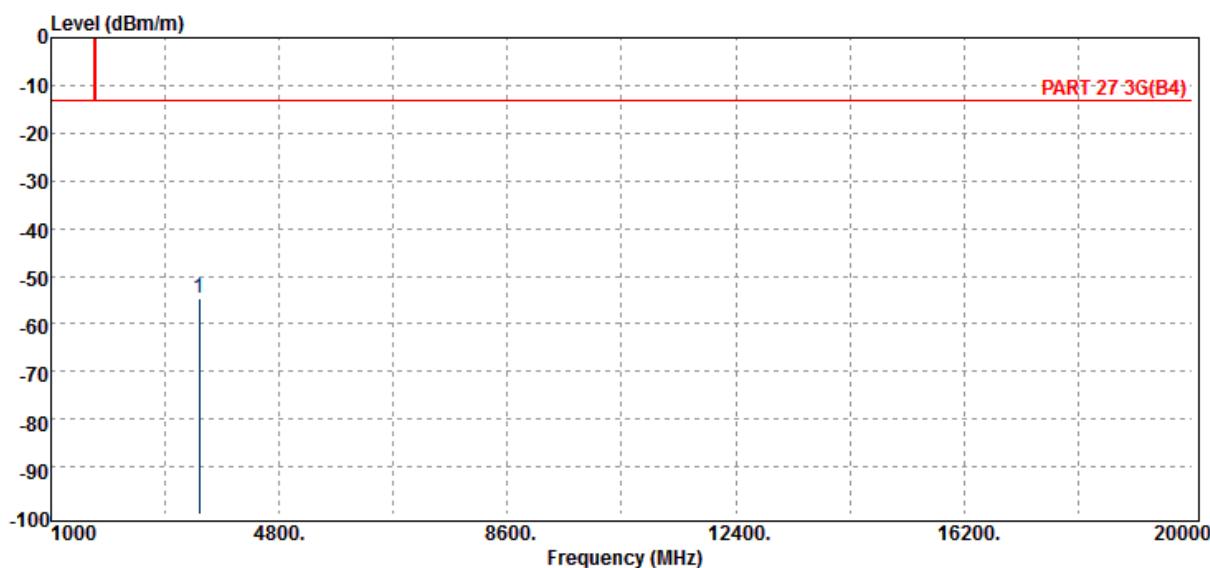
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| 3465.20      | H               | -57.33      | -63.42                    | 12.34                  | -6.25               | -13.00       | -44.33       |

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Operation Band :HSDPA B4  
 Fundamental Frequency :1732.6 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



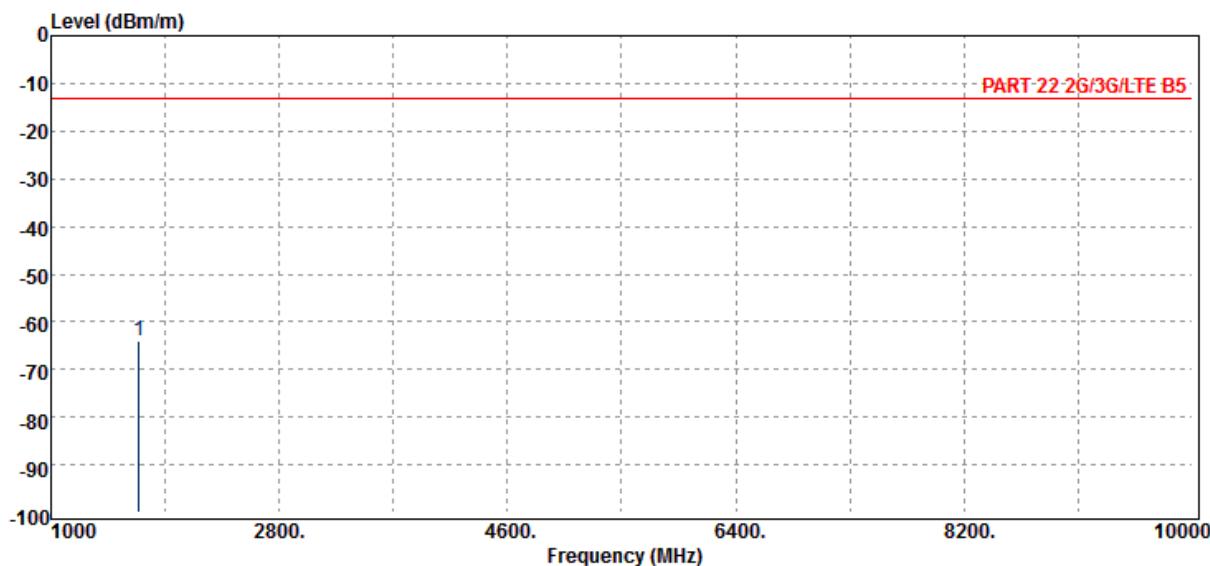
| Freq.   | Note    | EIRP   | SG           | Antenna | Cable | Limit  | Margin |
|---------|---------|--------|--------------|---------|-------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level | Gain    | Loss  |        |        |
| 3465.20 | H       | -54.57 | -60.67       | 12.34   | -6.25 | -13.00 | -41.57 |

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Operation Band :HSDPA B5  
 Fundamental Frequency :846.6 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna VERTICAL  
 Pol.



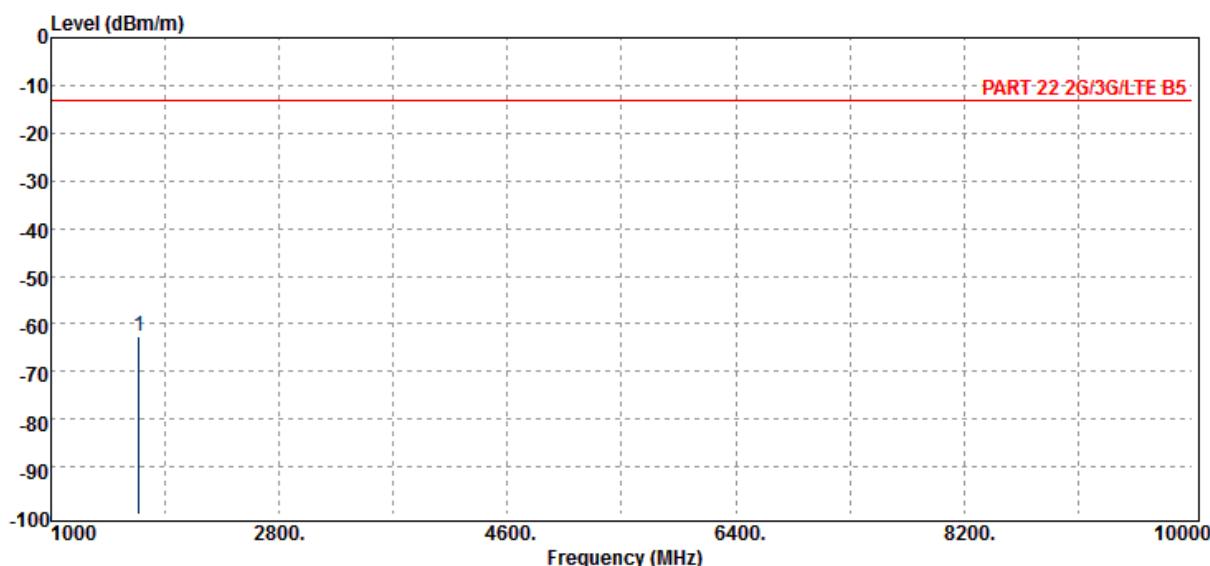
| Freq.<br>MHz | Note | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| F/H/E/S      |      |             |                           |                        |                     |              |              |
| 1693.20      | H    | -61.90      | -67.02                    | 9.42                   | -4.30               | -13          | -48.90       |

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Operation Band :HSDPA B5  
 Fundamental Frequency :846.6 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



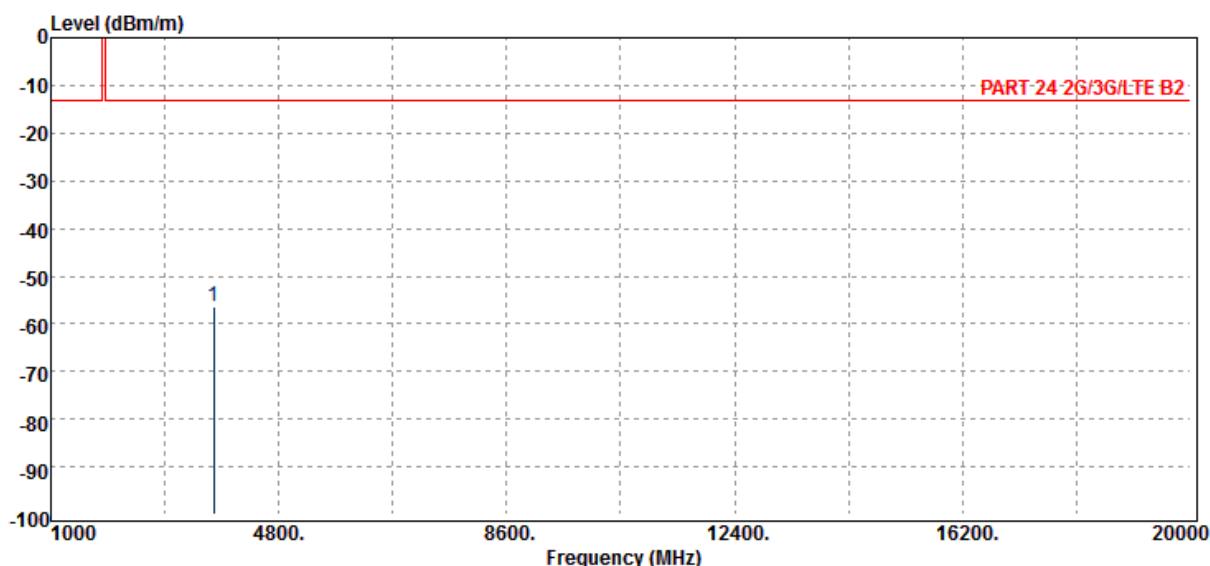
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| 1693.20      | H               | -60.63      | -65.75                    | 9.42                   | -4.30               | -13          | -47.63       |

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Operation Band :LTE B2  
 Fundamental Frequency :1855.0 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



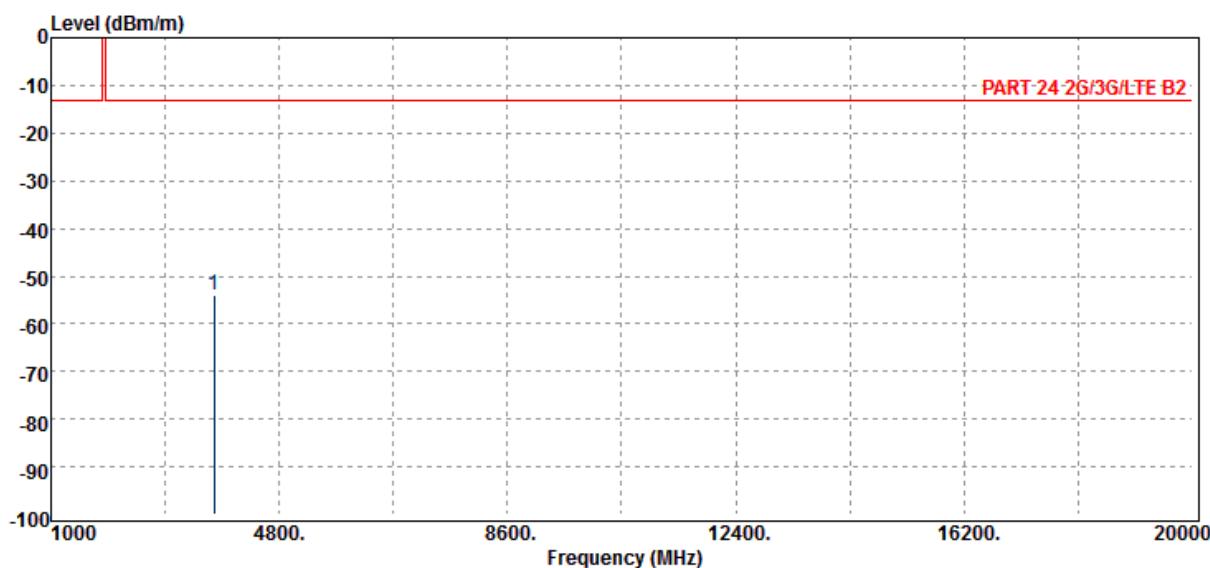
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| 3710.00      | H               | -56.46      | -62.32                    | 12.44                  | -6.58               | -13.00       | -43.46       |

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Operation Band :LTE B2  
 Fundamental Frequency :1855.0 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :H Plane  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



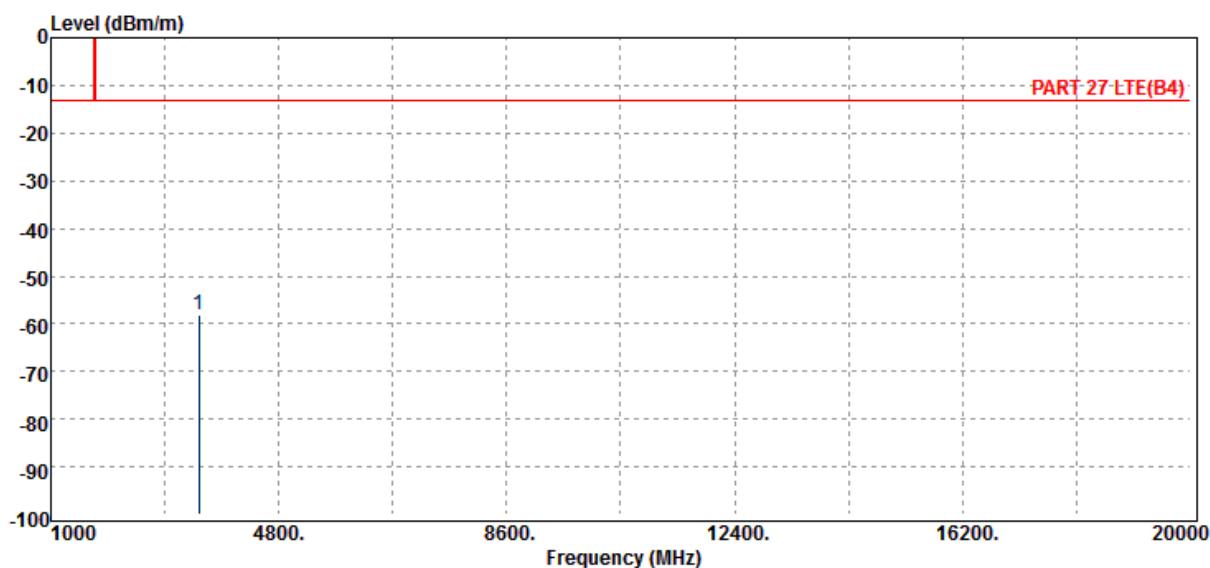
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| 3710.00      | H               | -53.97      | -59.83                    | 12.44                  | -6.58               | -13.00       | -40.97       |

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Operation Band :LTE B4  
 Fundamental Frequency :1732.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :VERTICAL



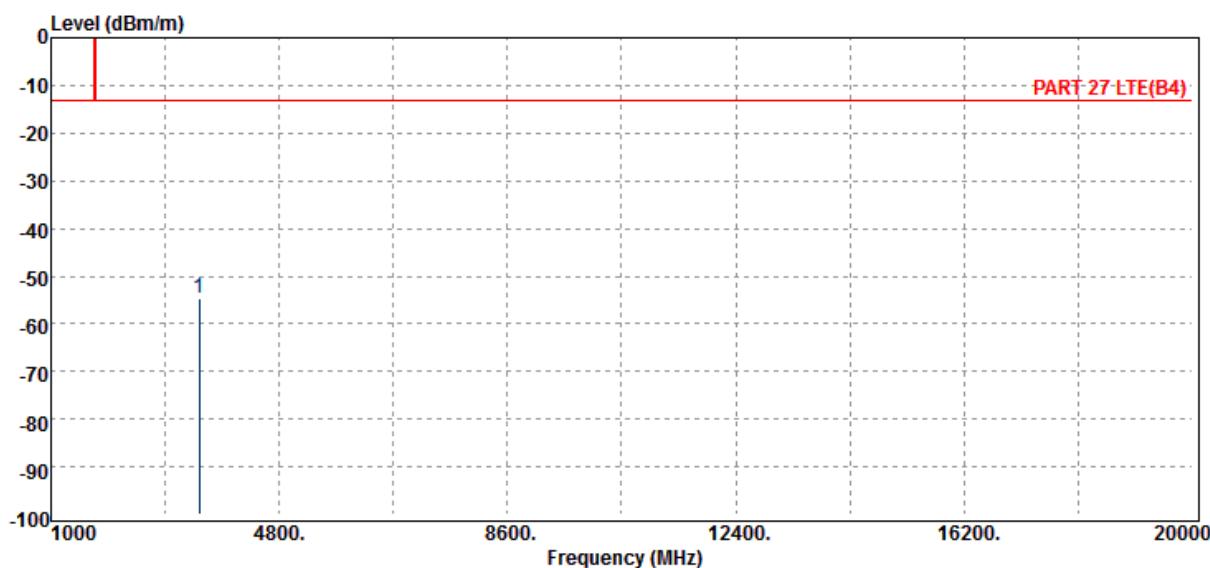
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| 3465.00      | H               | -58.23      | -64.32                    | 12.34                  | -6.25               | -13.00       | -45.23       |

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Operation Band :LTE B4  
 Fundamental Frequency :1732.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



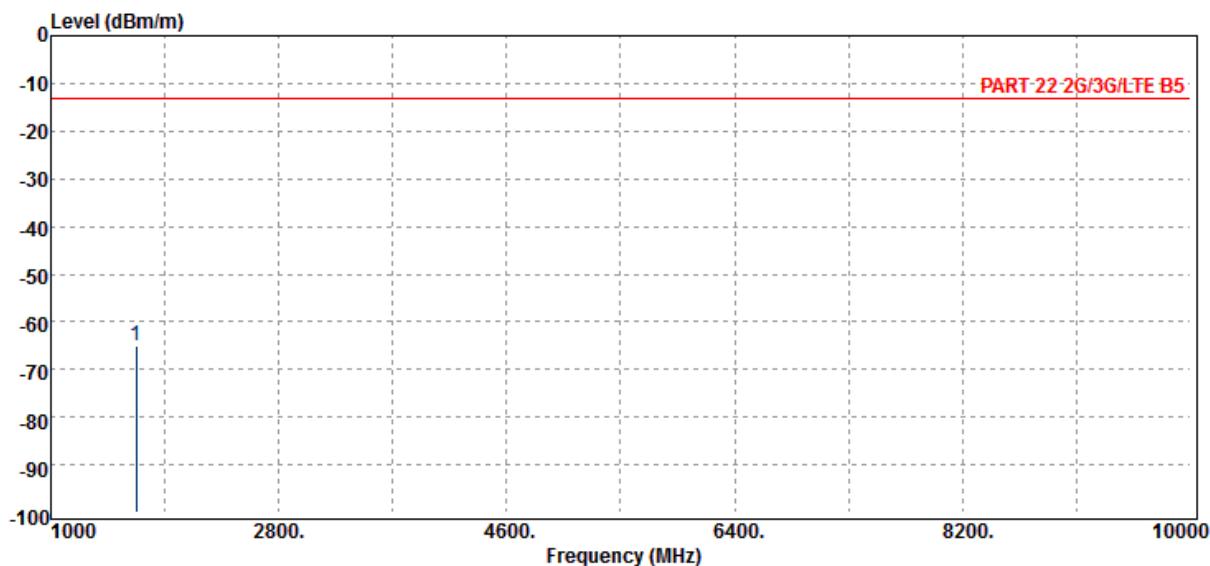
| Freq.   | Note    | EIRP   | SG           | Antenna | Cable | Limit  | Margin |
|---------|---------|--------|--------------|---------|-------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level | Gain    | Loss  |        |        |
| 3465.00 | H       | -54.75 | -60.84       | 12.34   | -6.25 | -13.00 | -41.75 |

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Operation Band :LTE B5  
 Fundamental Frequency :836.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :VERTICAL



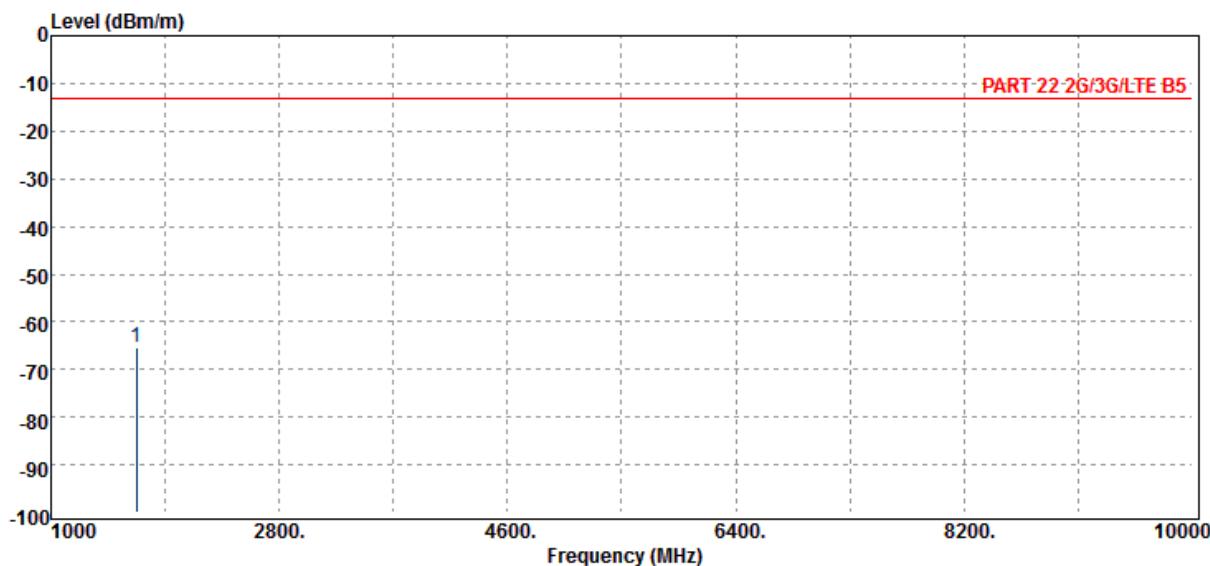
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| 1673.00      | H               | -62.83      | -67.89                    | 9.35                   | -4.29               | -13          | -49.83       |

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Operation Band :LTE B5  
 Fundamental Frequency :836.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



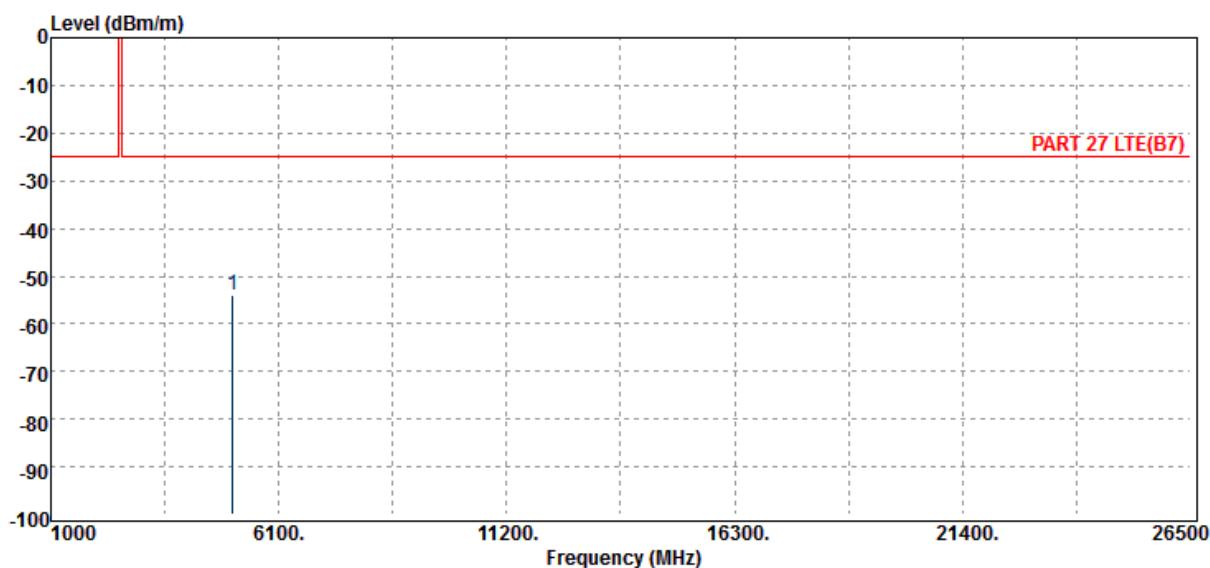
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| 1673.00      | H               | -63.35      | -68.41                    | 9.35                   | -4.29               | -13          | -50.35       |

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Operation Band :LTE B7  
 Fundamental Frequency :2535.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



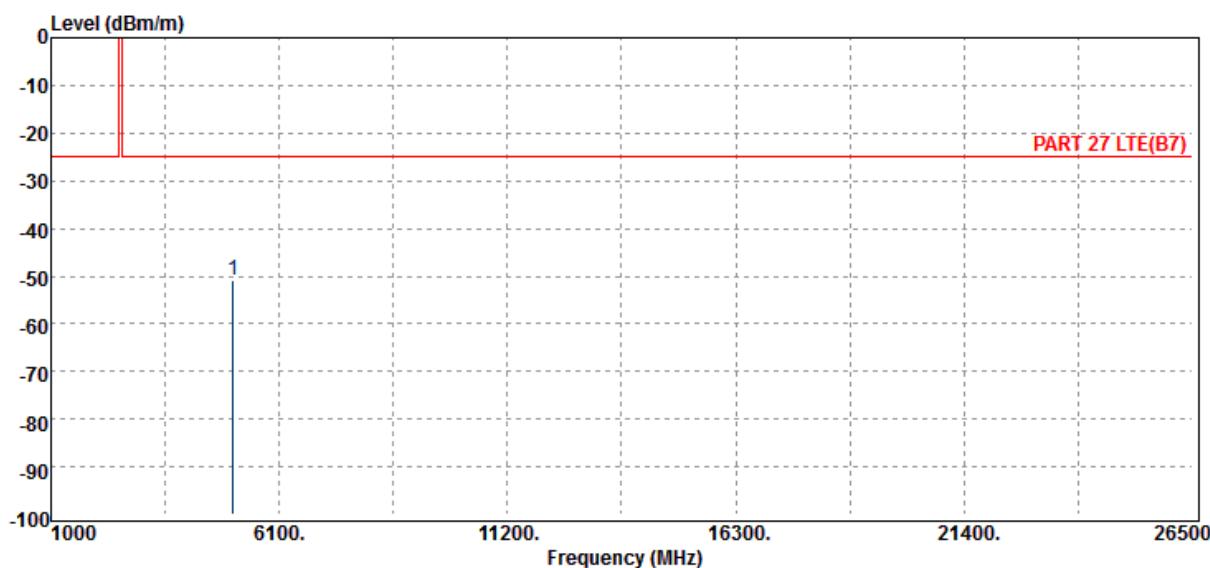
| Freq.<br>MHz | Note | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| F/H/E/S      |      |             |                           |                        |                     |              |              |
| 5070.00      | H    | -53.81      | -58.68                    | 12.73                  | -7.86               | -25.00       | -28.81       |

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Operation Band :LTE B7  
 Fundamental Frequency :2535.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



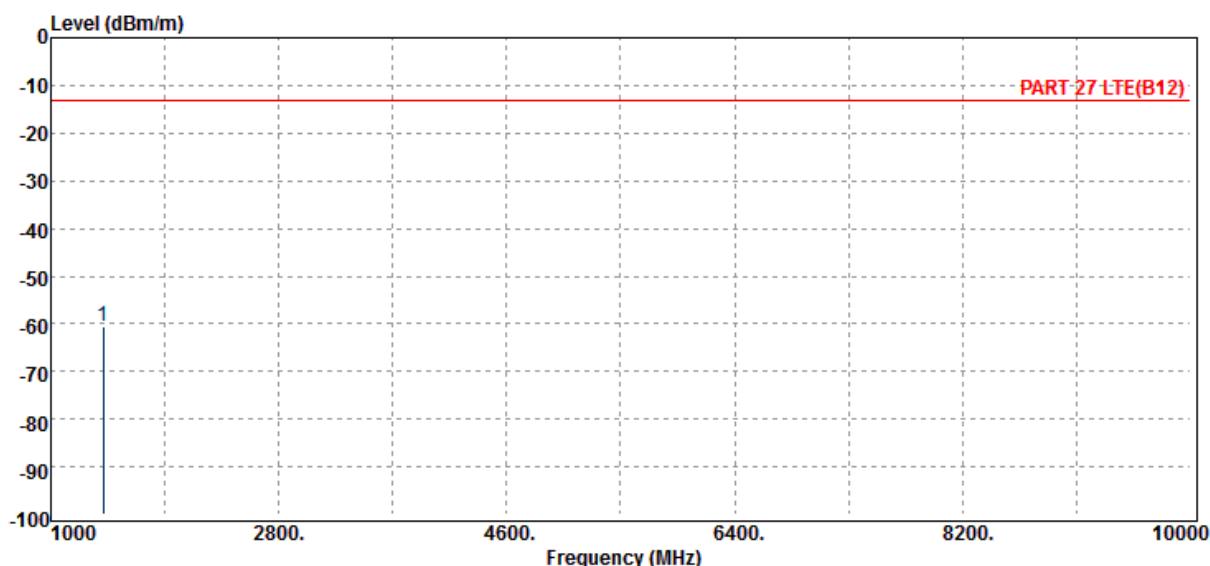
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| 5070.00      | H               | -51.03      | -55.90                    | 12.73                  | -7.86               | -25.00       | -26.03       |

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Operation Band :LTE B12  
 Fundamental Frequency :707.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :VERTICAL



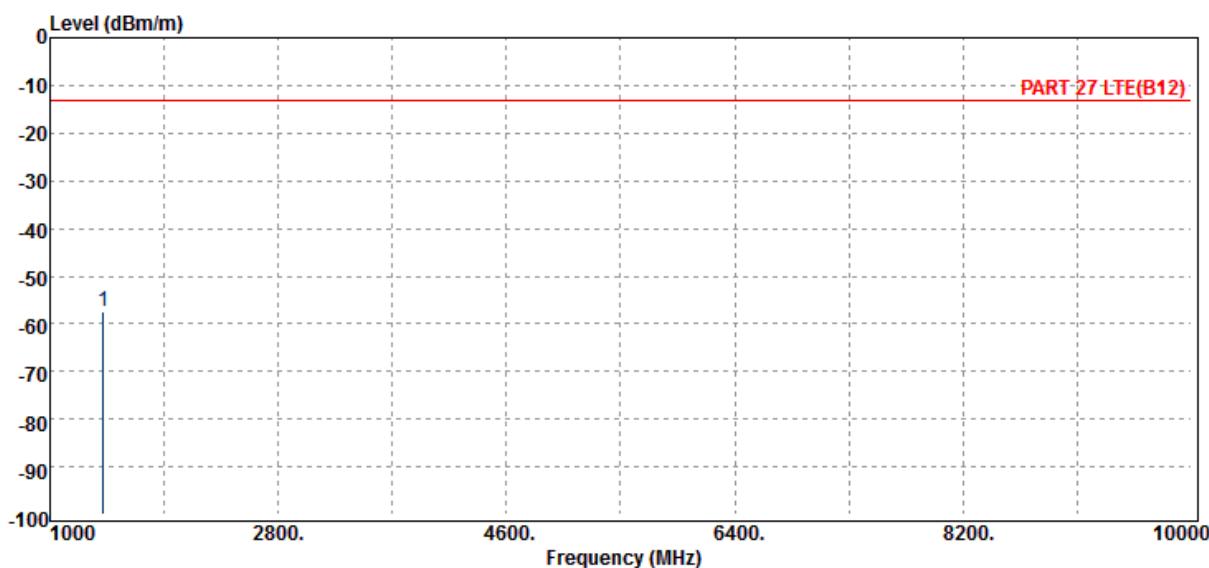
| Freq.<br>MHz | Note | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| F/H/E/S      |      |             |                           |                        |                     |              |              |
| 1415.00      | H    | -60.67      | -65.10                    | 8.34                   | -3.91               | -13.00       | -47.67       |

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Operation Band :LTE B12  
 Fundamental Frequency :707.5 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



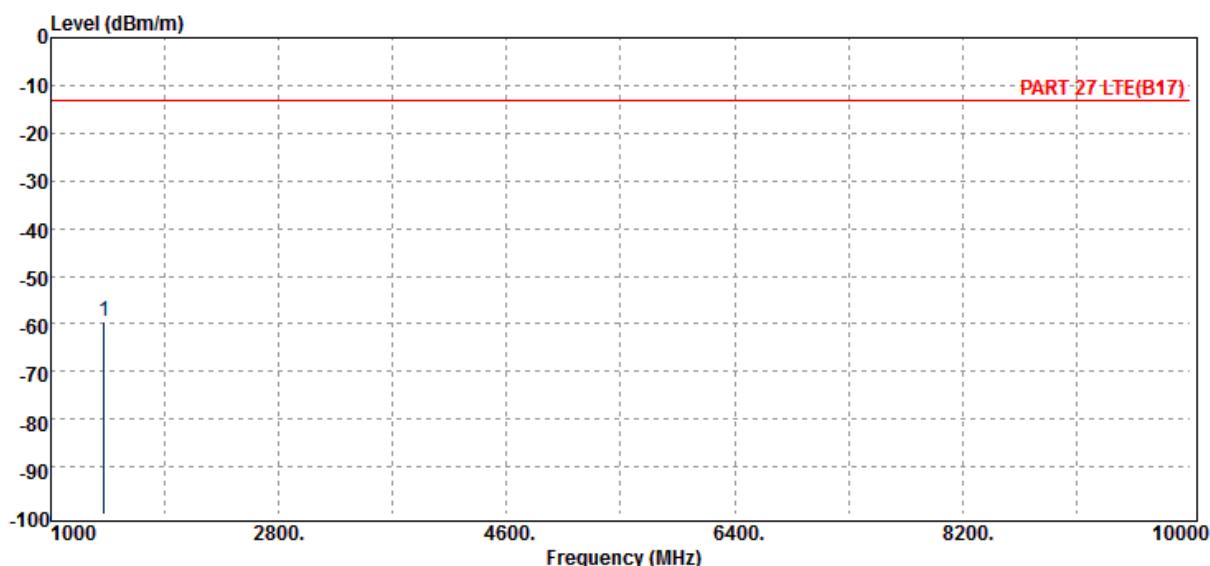
| Freq.   | Note    | EIRP   | SG           | Antenna | Cable | Limit  | Margin |
|---------|---------|--------|--------------|---------|-------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level | Gain    | Loss  |        |        |
| 1415.00 | H       | -57.48 | -61.93       | 8.38    | -3.93 | -13.00 | -44.48 |

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Operation Band :LTE B17  
 Fundamental Frequency :710.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol. :Antenna :VERTICAL



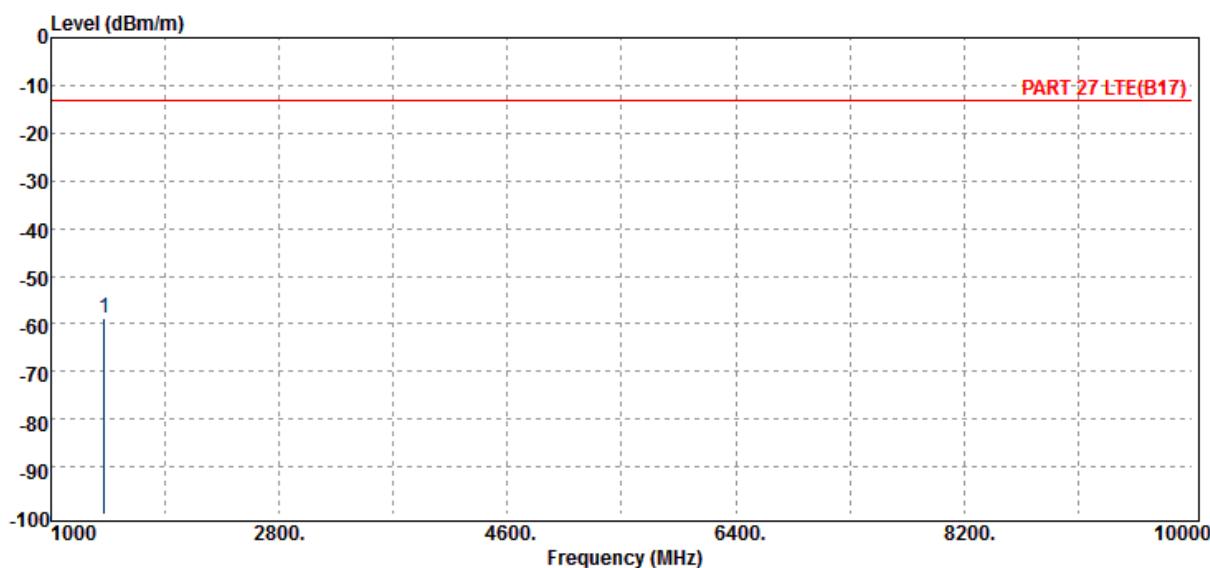
| Freq.<br>MHz | Note | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| F/H/E/S      |      |             |                           |                        |                     |              |              |
| 1420.00      | H    | -59.54      | -63.98                    | 8.36                   | -3.92               | -13.00       | -46.54       |

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Operation Band :LTE B17  
 Fundamental Frequency :710.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane  
 Temp./Humi. :21 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



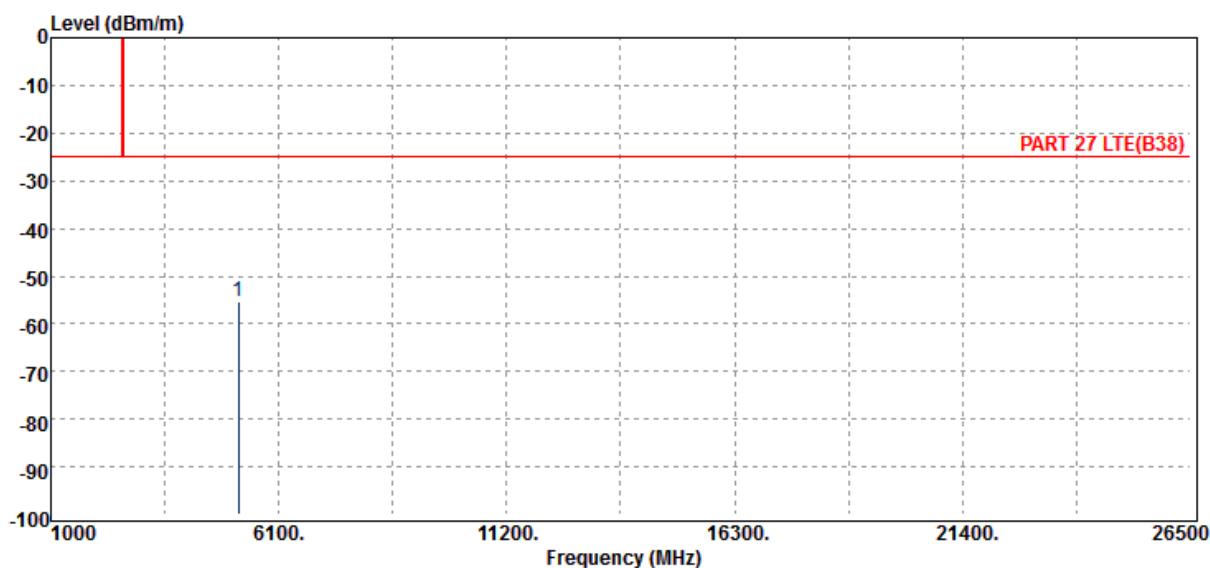
| Freq.   | Note    | EIRP   | SG           | Antenna | Cable | Limit  | Margin |
|---------|---------|--------|--------------|---------|-------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level | Gain    | Loss  |        |        |
| 1420.00 | H       | -58.97 | -63.41       | 8.36    | -3.92 | -13.00 | -45.97 |

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Operation Band :LTE B38  
 Fundamental Frequency :2595.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol. :VERTICAL  
 Antenna :VERTICAL



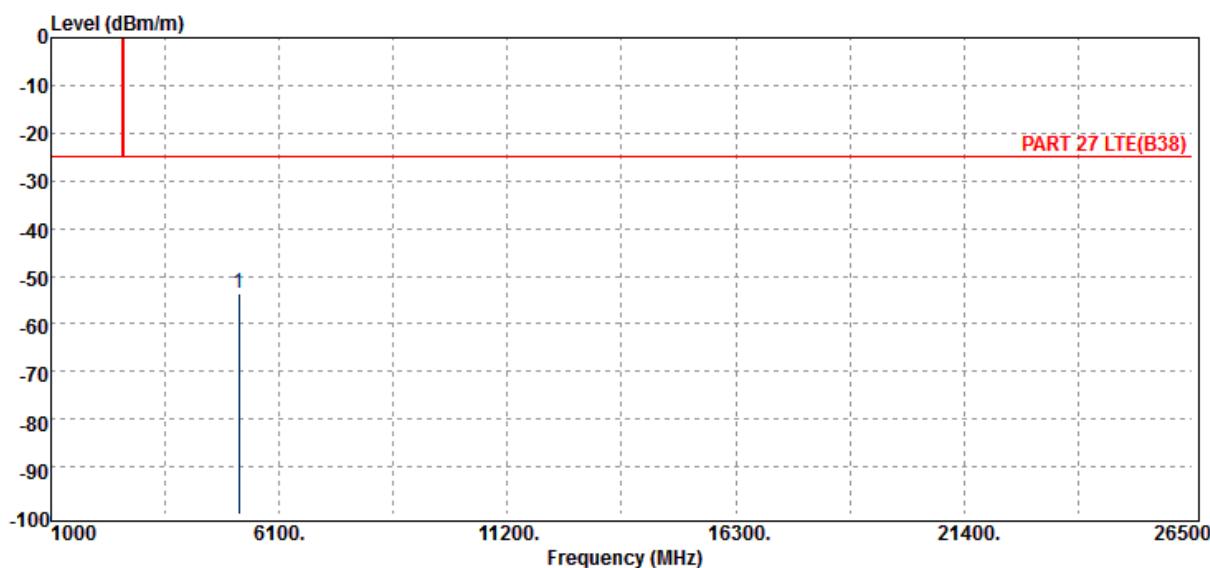
| Freq.<br>MHz | Note<br>F/H/E/S | EIRP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|--------------|
| 5190.00      | H               | -55.22      | -60.05                    | 12.78                  | -7.95               | -25.00       | -30.22       |

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Operation Band :LTE B38  
 Fundamental Frequency :2595.0 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :H Plane  
 Temp./Humi. :22 deg\_C / 61 RH  
 Engineer :Tin  
 Measurement Pol.  
 Antenna :HORIZONTAL



| Freq.   | Note    | EIRP   | SG           | Antenna | Cable | Limit  | Margin |
|---------|---------|--------|--------------|---------|-------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level | Gain    | Loss  |        |        |
| 5190.00 | H       | -53.59 | -58.42       | 12.78   | -7.95 | -25.00 | -28.59 |

~ End of Report ~

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