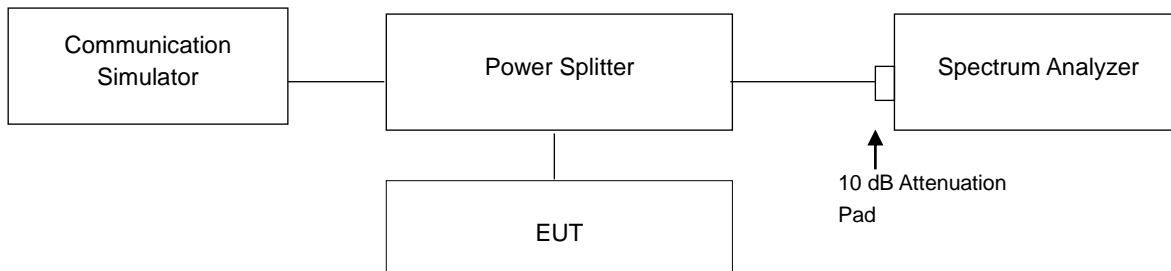


4.6 Peak to Average Ratio

4.6.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.6.2 Test Setup

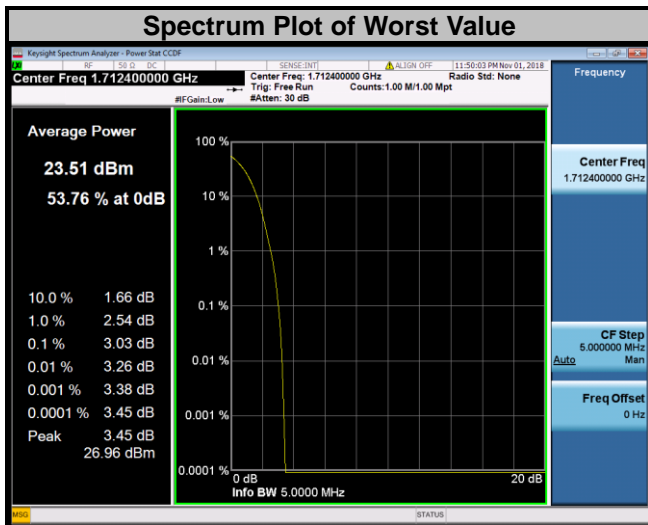


4.6.3 Test Procedures

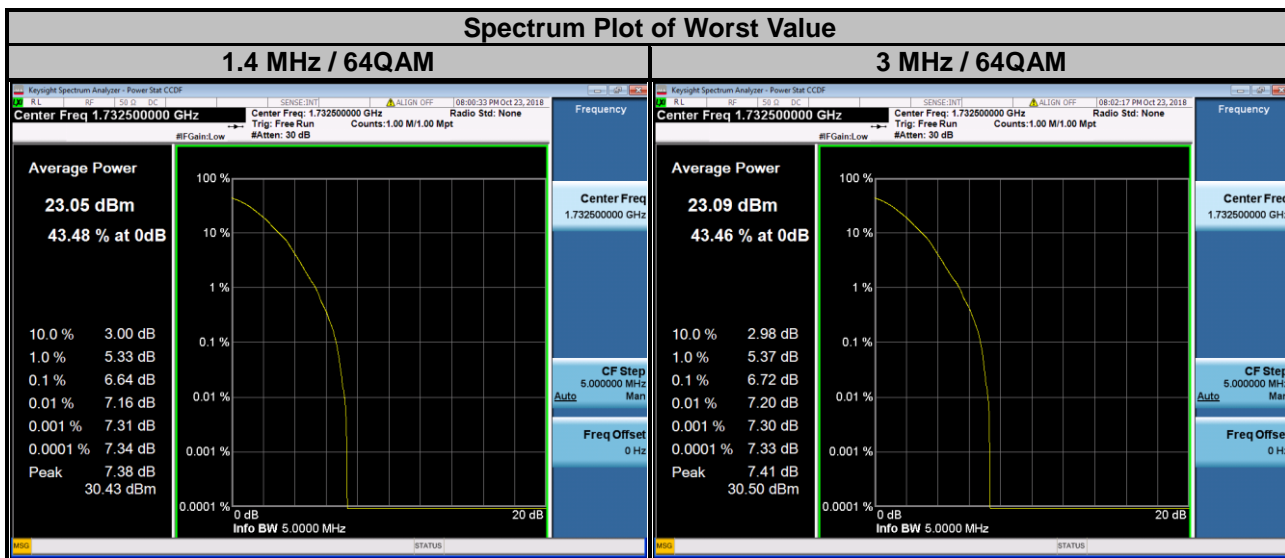
1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1 %.

4.6.4 Test Results

| WCDMA | | |
|---------|-----------------|----------------------------|
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) |
| 1312 | 1712.4 | 3.03 |
| 1413 | 1732.6 | 2.97 |
| 1513 | 1752.6 | 3.02 |



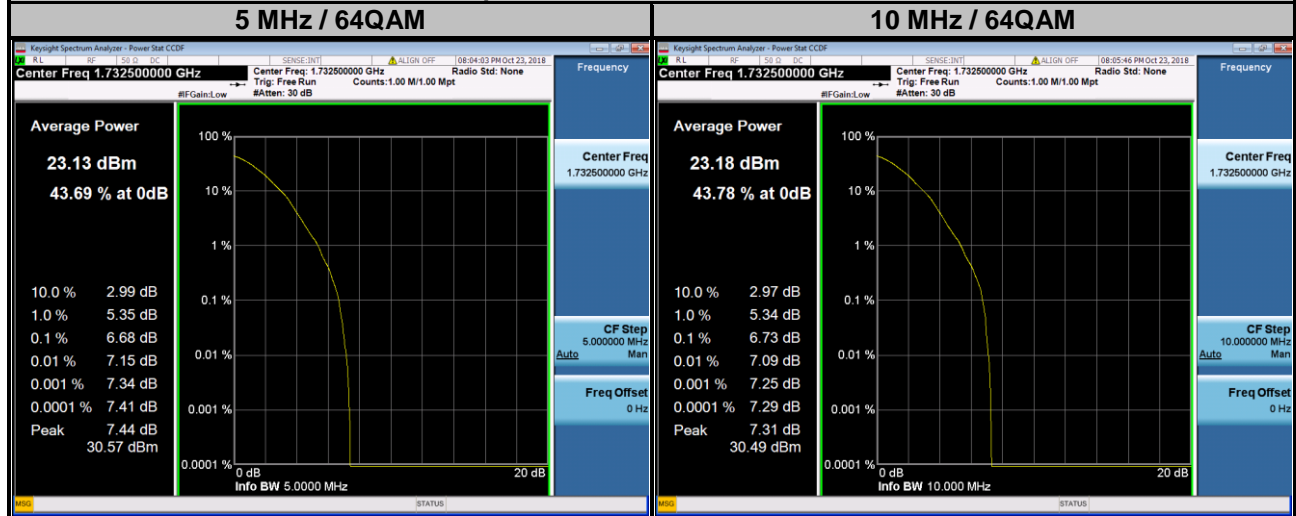
| LTE Band 4 | | | | | | | | | |
|----------------------------|-----------------|----------------------------|-------|-------|--------------------------|-----------------|----------------------------|-------|-------|
| Channel Bandwidth: 1.4 MHz | | | | | Channel Bandwidth: 3 MHz | | | | |
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | |
| | | QPSK | 16QAM | 64QAM | | | QPSK | 16QAM | 64QAM |
| 19957 | 1710.7 | 3.83 | 5.00 | 6.19 | 19965 | 1711.5 | 3.59 | 4.97 | 6.13 |
| 20175 | 1732.5 | 3.79 | 5.50 | 6.64 | 20175 | 1732.5 | 3.58 | 5.33 | 6.72 |
| 20393 | 1754.3 | 3.82 | 5.43 | 6.53 | 20385 | 1753.5 | 3.59 | 5.11 | 6.33 |



LTE Band 4

| Channel Bandwidth: 5 MHz | | | | | Channel Bandwidth: 10 MHz | | | | |
|--------------------------|-----------------|----------------------------|-------|-------|---------------------------|-----------------|----------------------------|-------|-------|
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | |
| | | QPSK | 16QAM | 64QAM | | | QPSK | 16QAM | 64QAM |
| 19975 | 1712.5 | 3.64 | 5.03 | 6.19 | 20000 | 1715.0 | 3.52 | 4.88 | 6.05 |
| 20175 | 1732.5 | 3.57 | 5.30 | 6.68 | 20175 | 1732.5 | 3.52 | 5.27 | 6.73 |
| 20375 | 1752.5 | 3.63 | 4.93 | 6.14 | 20350 | 1750.0 | 3.51 | 4.73 | 5.97 |

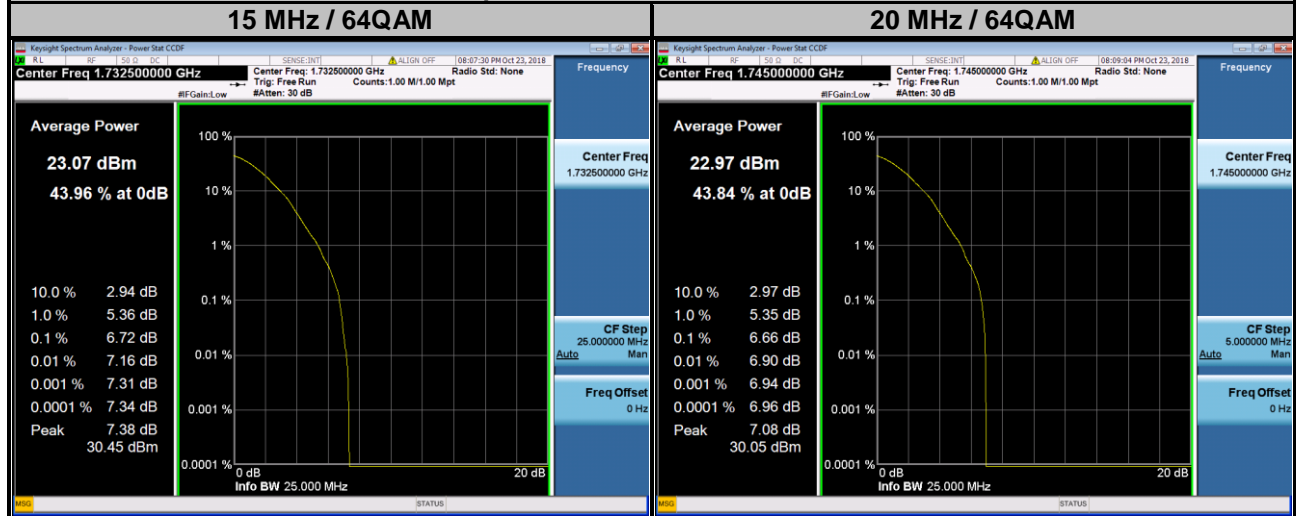
Spectrum Plot of Worst Value



LTE Band 4

| Channel Bandwidth: 15 MHz | | | | | Channel Bandwidth: 20 MHz | | | | |
|---------------------------|-----------------|----------------------------|-------|-------|---------------------------|-----------------|----------------------------|-------|-------|
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | |
| | | QPSK | 16QAM | 64QAM | | | QPSK | 16QAM | 64QAM |
| 20025 | 1717.5 | 3.54 | 4.92 | 6.12 | 20050 | 1720.0 | 3.50 | 4.93 | 6.12 |
| 20175 | 1732.5 | 3.46 | 5.19 | 6.72 | 20175 | 1732.5 | 3.46 | 5.22 | 6.65 |
| 20325 | 1747.5 | 3.46 | 4.97 | 6.34 | 20300 | 1745.0 | 3.47 | 5.18 | 6.66 |

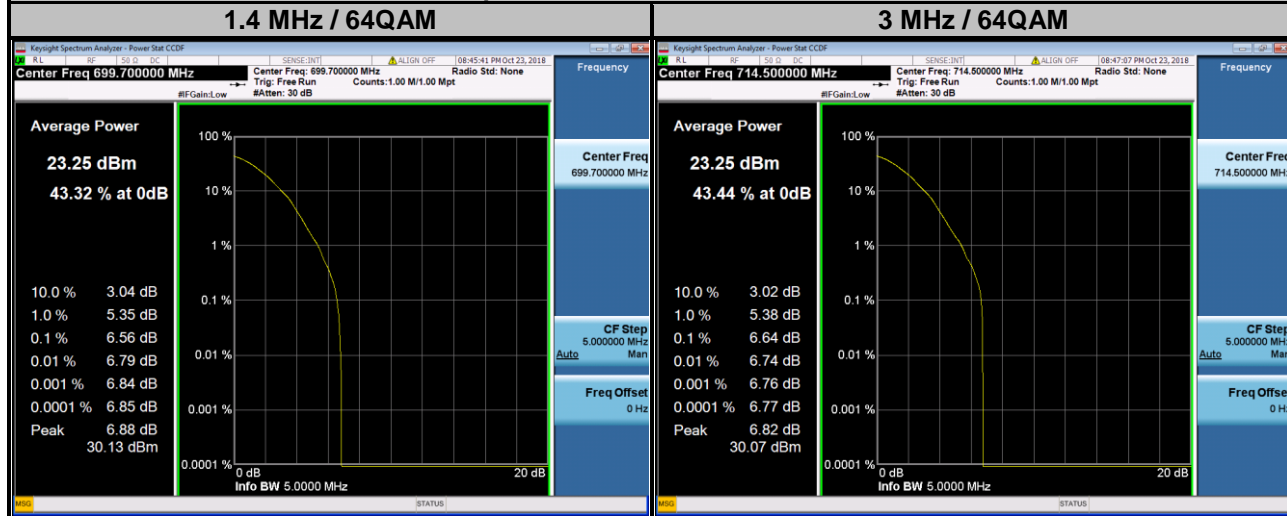
Spectrum Plot of Worst Value



LTE Band 12

| Channel Bandwidth: 1.4 MHz | | | | | Channel Bandwidth: 3 MHz | | | | |
|----------------------------|-----------------|----------------------------|-------|-------|--------------------------|-----------------|----------------------------|-------|-------|
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | |
| | | QPSK | 16QAM | 64QAM | | | QPSK | 16QAM | 64QAM |
| 23017 | 699.7 | 3.80 | 5.44 | 6.56 | 23025 | 700.5 | 3.56 | 5.29 | 6.57 |
| 23095 | 707.5 | 3.85 | 5.45 | 6.52 | 23095 | 707.5 | 3.63 | 5.31 | 6.41 |
| 23173 | 715.3 | 3.78 | 4.79 | 5.97 | 23165 | 714.5 | 3.56 | 5.32 | 6.64 |

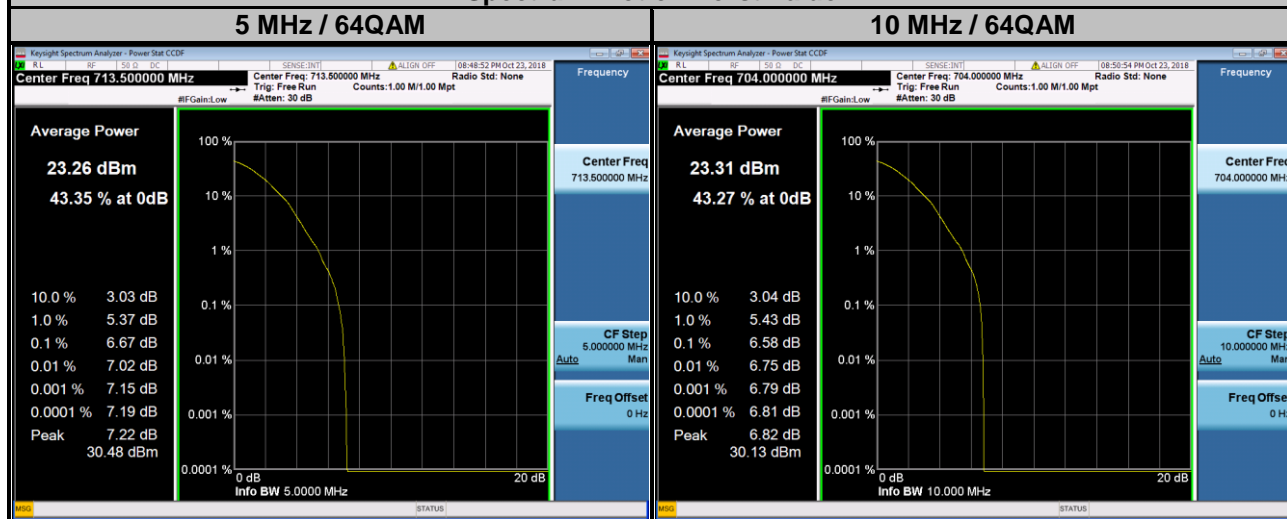
Spectrum Plot of Worst Value



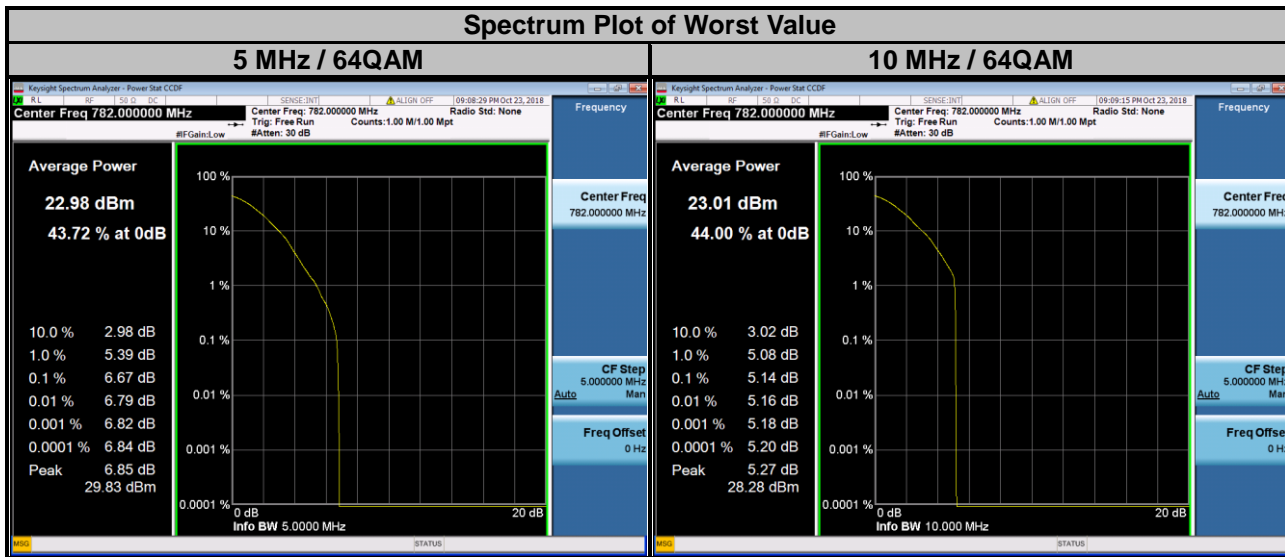
LTE Band 12

| Channel Bandwidth: 5 MHz | | | | | Channel Bandwidth: 10 MHz | | | | |
|--------------------------|-----------------|----------------------------|-------|-------|---------------------------|-----------------|----------------------------|-------|-------|
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | |
| | | QPSK | 16QAM | 64QAM | | | QPSK | 16QAM | 64QAM |
| 23035 | 701.5 | 3.59 | 5.32 | 6.56 | 23060 | 704.0 | 3.50 | 5.21 | 6.58 |
| 23095 | 707.5 | 3.62 | 5.28 | 6.33 | 23095 | 707.5 | 3.50 | 5.15 | 6.33 |
| 23155 | 713.5 | 3.57 | 5.29 | 6.67 | 23130 | 711.0 | 3.56 | 5.27 | 6.46 |

Spectrum Plot of Worst Value



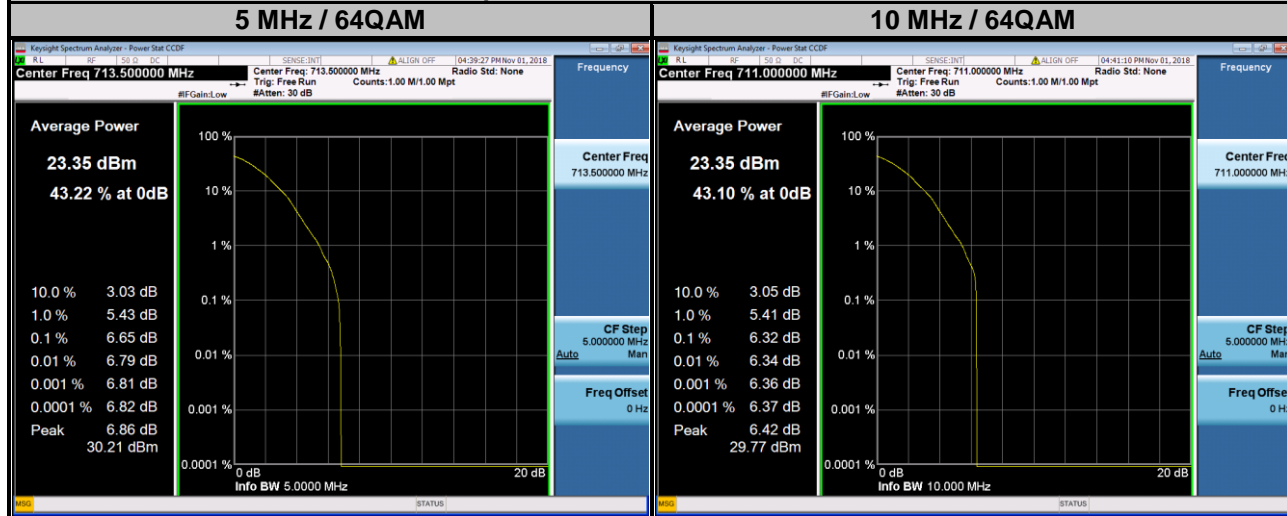
| LTE Band 13 | | | | | | | | | |
|--------------------------|-----------------|----------------------------|-------|-------|---------------------------|-----------------|----------------------------|-------|-------|
| Channel Bandwidth: 5 MHz | | | | | Channel Bandwidth: 10 MHz | | | | |
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | |
| | | QPSK | 16QAM | 64QAM | | | QPSK | 16QAM | 64QAM |
| 23205 | 779.5 | 3.25 | 4.01 | 5.02 | 23230 | 782.0 | 3.34 | 4.10 | 5.14 |
| 23230 | 782.0 | 3.60 | 5.24 | 6.67 | | | | | |
| 23255 | 784.5 | 3.61 | 5.00 | 6.05 | | | | | |



LTE Band 17

| Channel Bandwidth: 5 MHz | | | | | Channel Bandwidth: 10 MHz | | | | |
|--------------------------|-----------------|----------------------------|-------|-------|---------------------------|-----------------|----------------------------|-------|-------|
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | |
| | | QPSK | 16QAM | 64QAM | | | QPSK | 16QAM | 64QAM |
| 23755 | 706.5 | 3.62 | 4.92 | 6.00 | 23780 | 709.0 | 3.51 | 4.91 | 6.01 |
| 23790 | 710.0 | 3.61 | 5.36 | 6.56 | 23790 | 710.0 | 3.51 | 5.19 | 6.28 |
| 23825 | 713.5 | 3.58 | 5.29 | 6.65 | 23800 | 711.0 | 3.51 | 5.25 | 6.32 |

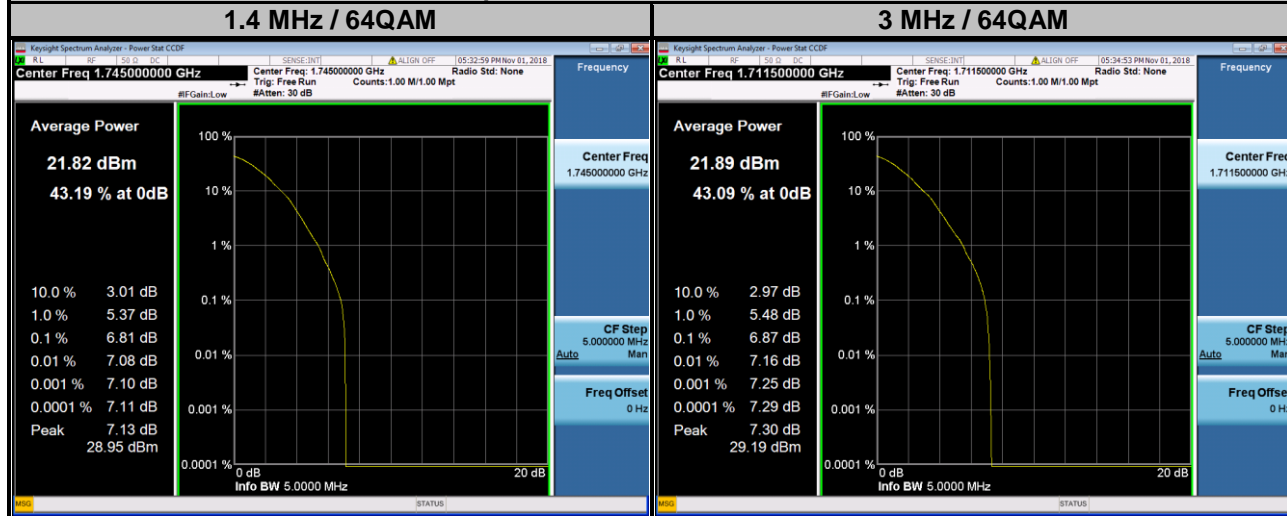
Spectrum Plot of Worst Value



LTE Band 66

| Channel Bandwidth: 1.4 MHz | | | | | Channel Bandwidth: 3 MHz | | | | |
|----------------------------|-----------------|----------------------------|-------|-------|--------------------------|-----------------|----------------------------|-------|-------|
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | |
| | | QPSK | 16QAM | 64QAM | | | QPSK | 16QAM | 64QAM |
| 131979 | 1710.7 | 3.82 | 5.55 | 6.79 | 131987 | 1711.5 | 3.59 | 5.31 | 6.87 |
| 132322 | 1745.0 | 3.83 | 5.51 | 6.81 | 132322 | 1745.0 | 3.63 | 5.30 | 6.80 |
| 132665 | 1779.3 | 3.78 | 5.51 | 6.65 | 132657 | 1778.5 | 3.57 | 5.27 | 6.74 |

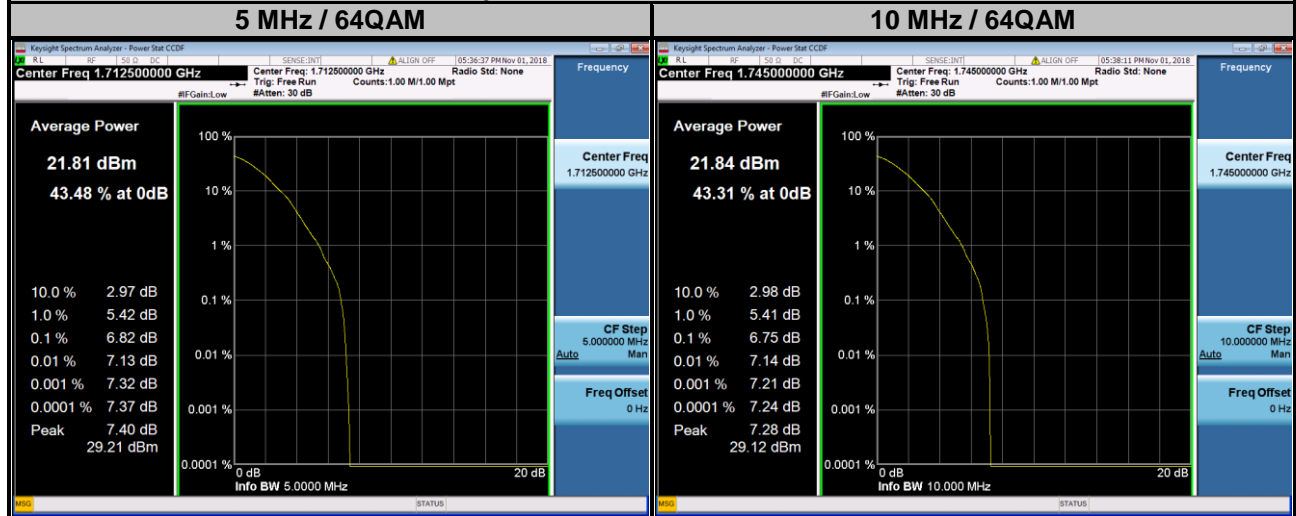
Spectrum Plot of Worst Value



LTE Band 66

| Channel Bandwidth: 5 MHz | | | | | Channel Bandwidth: 10 MHz | | | | |
|--------------------------|-----------------|----------------------------|-------|-------|---------------------------|-----------------|----------------------------|-------|-------|
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | |
| | | QPSK | 16QAM | 64QAM | | | QPSK | 16QAM | 64QAM |
| 131997 | 1712.5 | 3.61 | 5.35 | 6.82 | 132022 | 1715.0 | 3.52 | 5.30 | 6.71 |
| 132322 | 1745.0 | 3.61 | 5.35 | 6.82 | 132322 | 1745.0 | 3.51 | 5.27 | 6.75 |
| 132647 | 1777.5 | 3.57 | 5.29 | 6.68 | 132622 | 1775.0 | 3.54 | 5.29 | 6.67 |

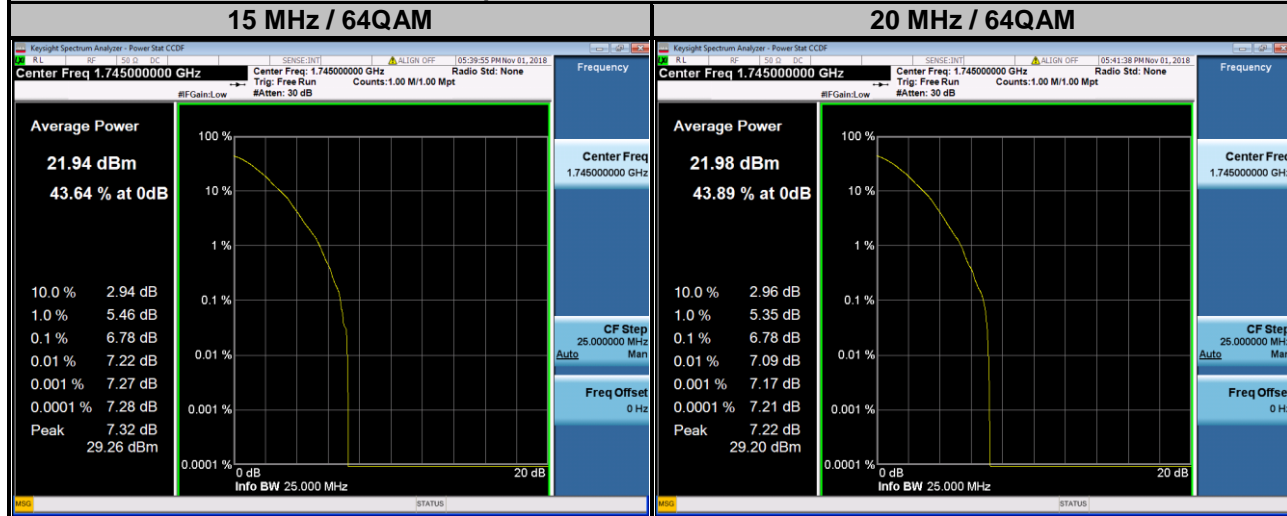
Spectrum Plot of Worst Value



LTE Band 66

| Channel Bandwidth: 15 MHz | | | | | Channel Bandwidth: 20 MHz | | | | |
|---------------------------|-----------------|----------------------------|-------|-------|---------------------------|-----------------|----------------------------|-------|-------|
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | |
| | | QPSK | 16QAM | 64QAM | | | QPSK | 16QAM | 64QAM |
| 132047 | 1717.5 | 3.48 | 5.24 | 6.77 | 132072 | 1720.0 | 3.46 | 5.25 | 6.52 |
| 132322 | 1745.0 | 3.46 | 5.20 | 6.78 | 132322 | 1745.0 | 3.45 | 5.21 | 6.78 |
| 132597 | 1772.5 | 3.45 | 5.17 | 6.74 | 132572 | 1770.0 | 3.47 | 4.72 | 5.85 |

Spectrum Plot of Worst Value

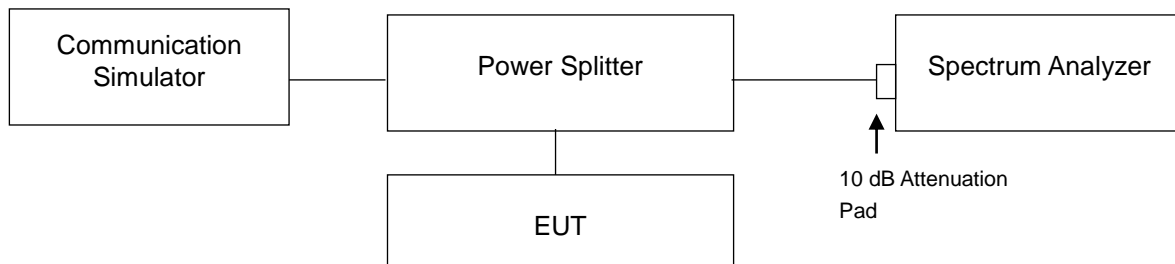


4.7 Conducted Spurious Emissions

4.7.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The limit of emission is equal to -13 dBm.

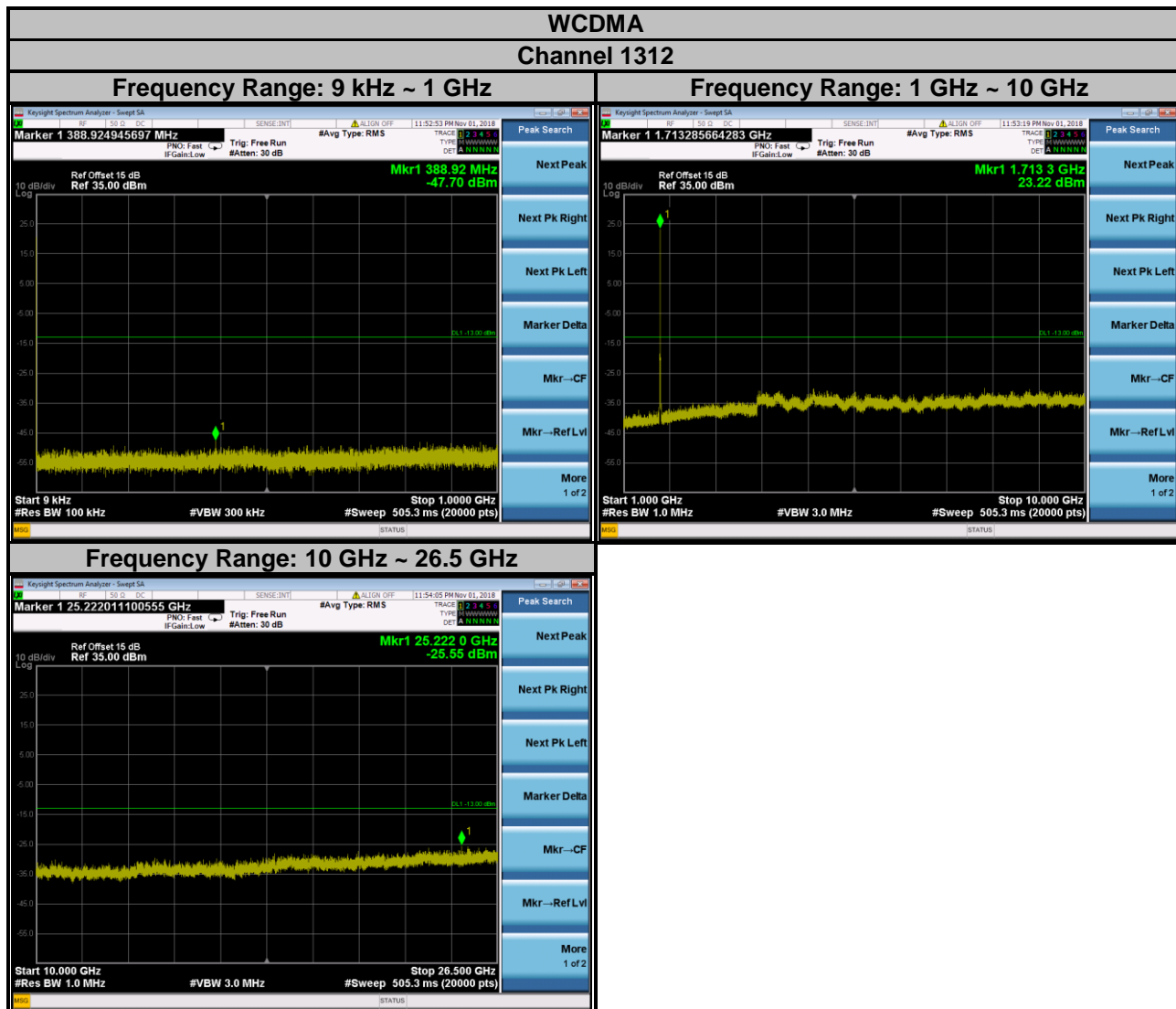
4.7.2 Test Setup



4.7.3 Test Procedure

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz to 1 GHz. 10 dB attenuation pad is connected with spectrum. RBW = 100 kHz and VBW = 300 kHz is used for conducted emission measurement.
- Measuring frequency range is from 1 GHz to 10 GHz / 26.5 GHz / 27 GHz. 10 dB attenuation pad is connected with spectrum. RBW = 1 MHz and VBW = 3 MHz is used for conducted emission measurement.

4.7.4 Test Results

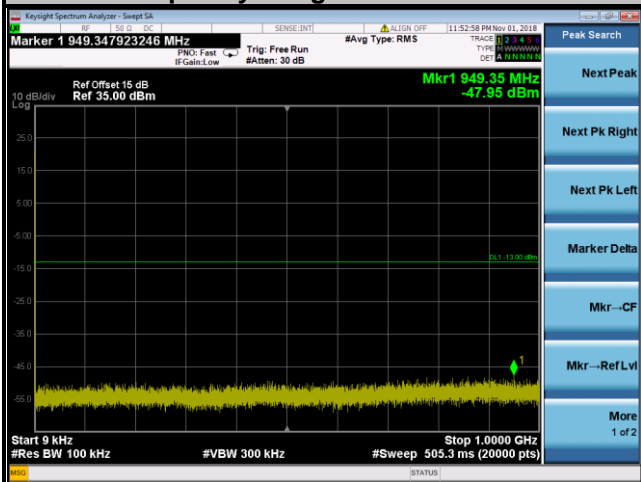


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

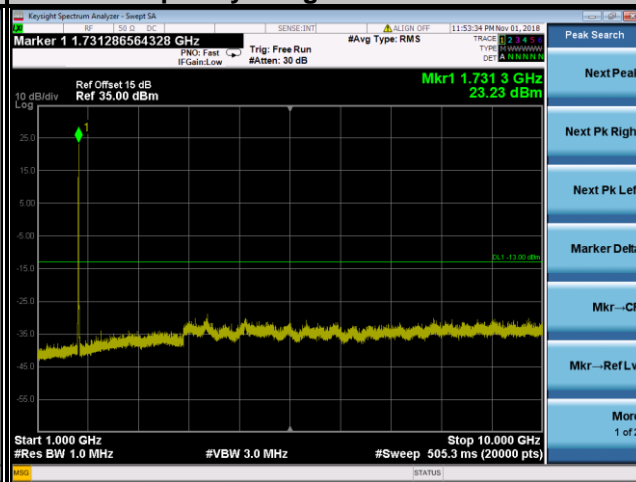
WCDMA

Channel 1413

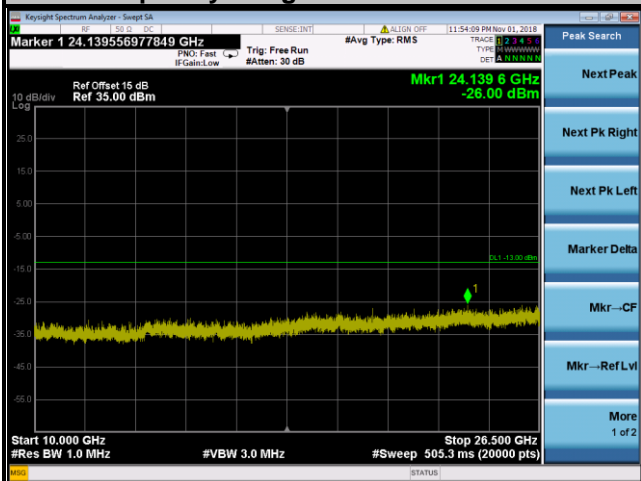
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 26.5 GHz

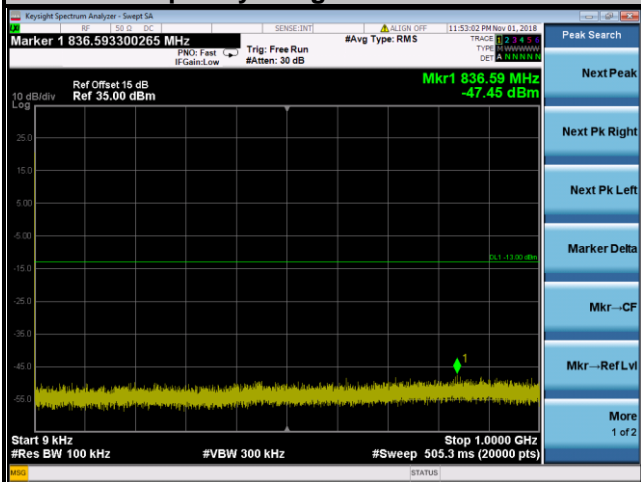


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

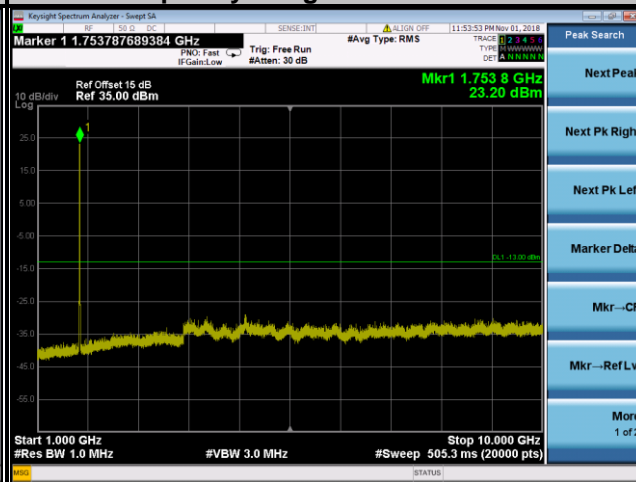
WCDMA

Channel 1513

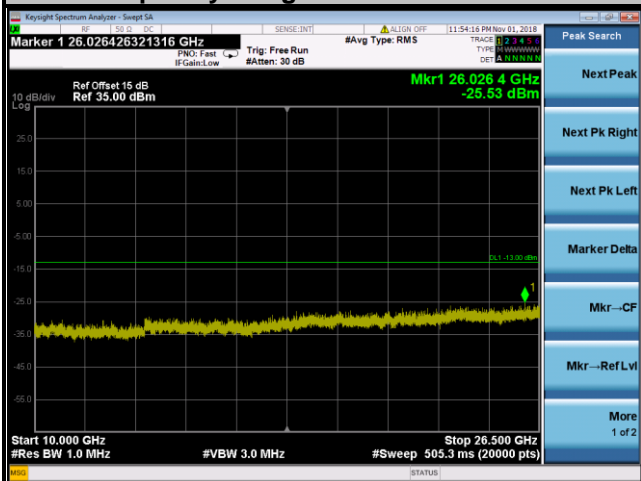
Frequency Range: 9 kHz ~ 1 GHz



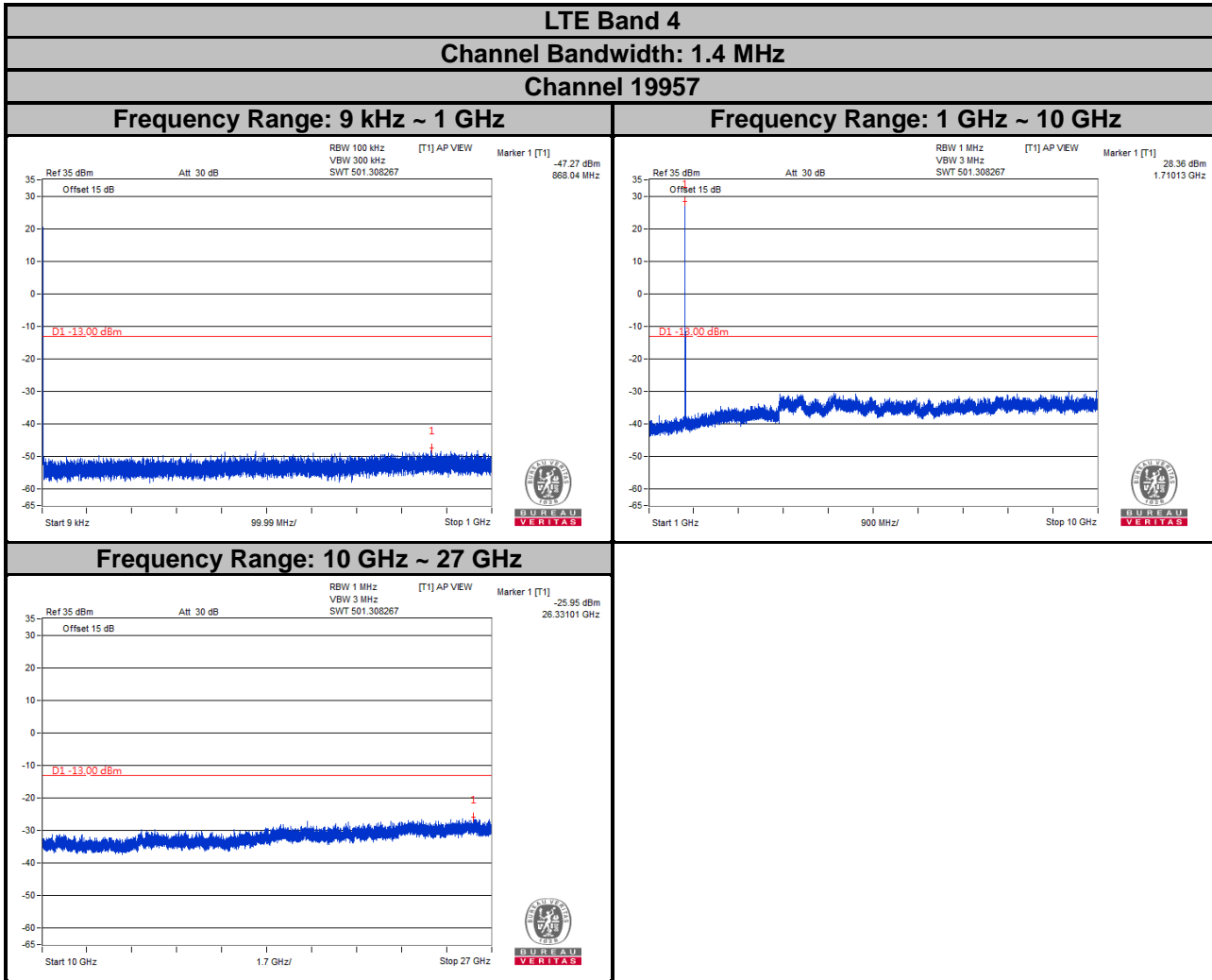
Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 26.5 GHz



Note: The signal over the limit in 9 kHz is from spectrum analyzer.



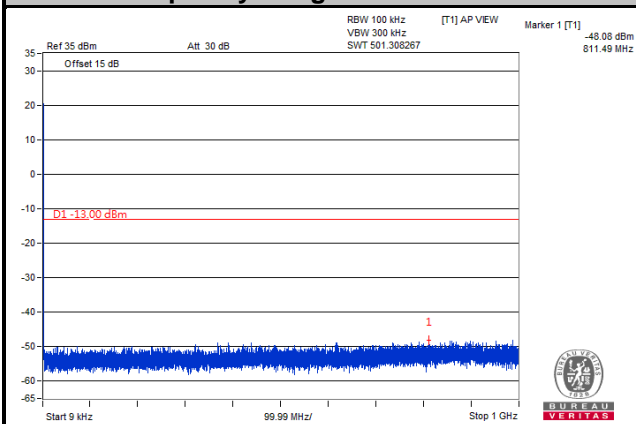
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4

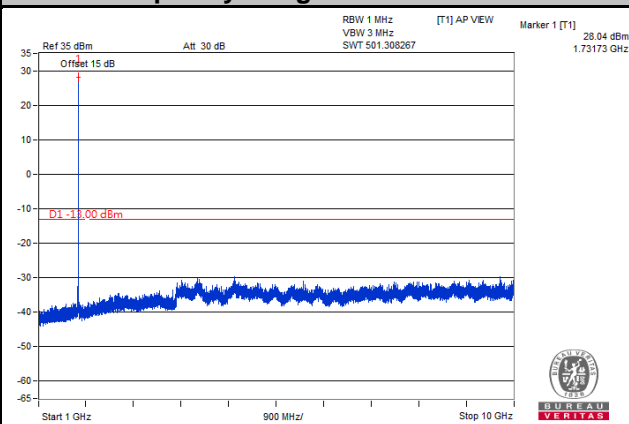
Channel Bandwidth: 1.4 MHz

Channel 20175

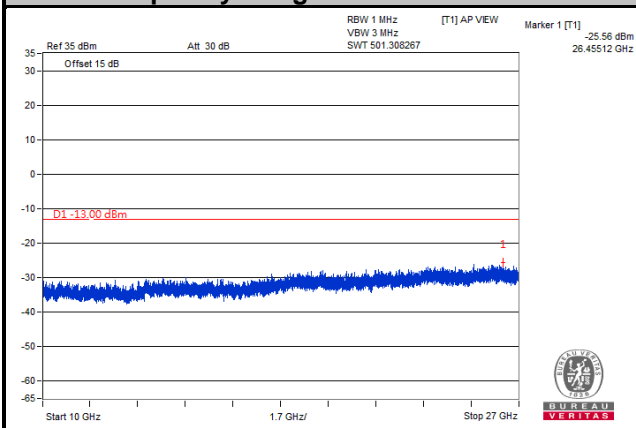
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



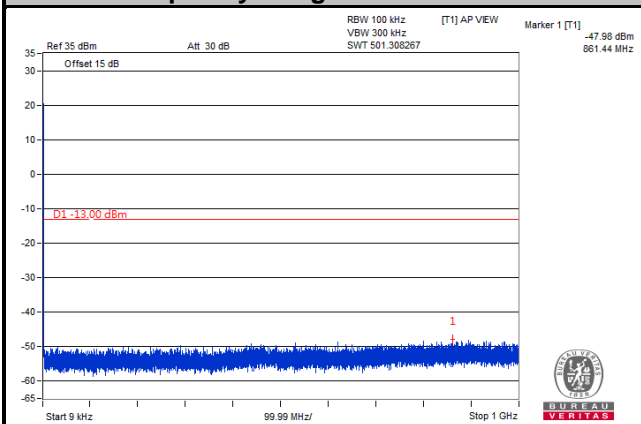
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4

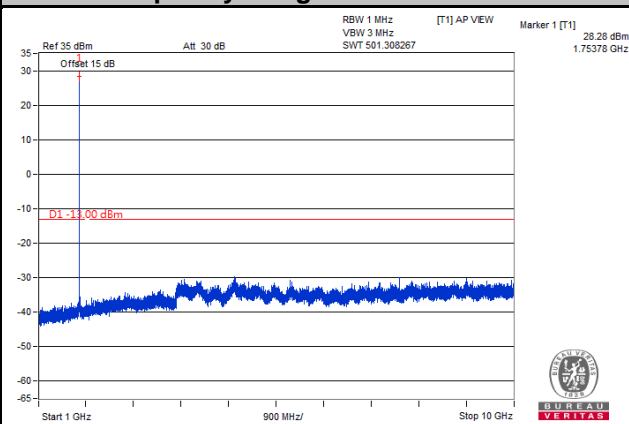
Channel Bandwidth: 1.4 MHz

Channel 20393

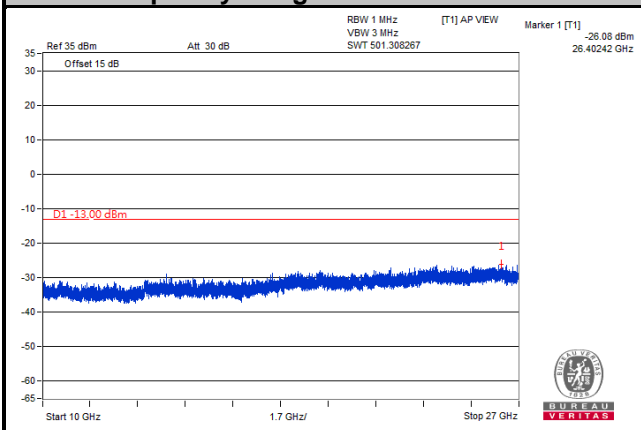
Frequency Range: 9 kHz ~ 1 GHz



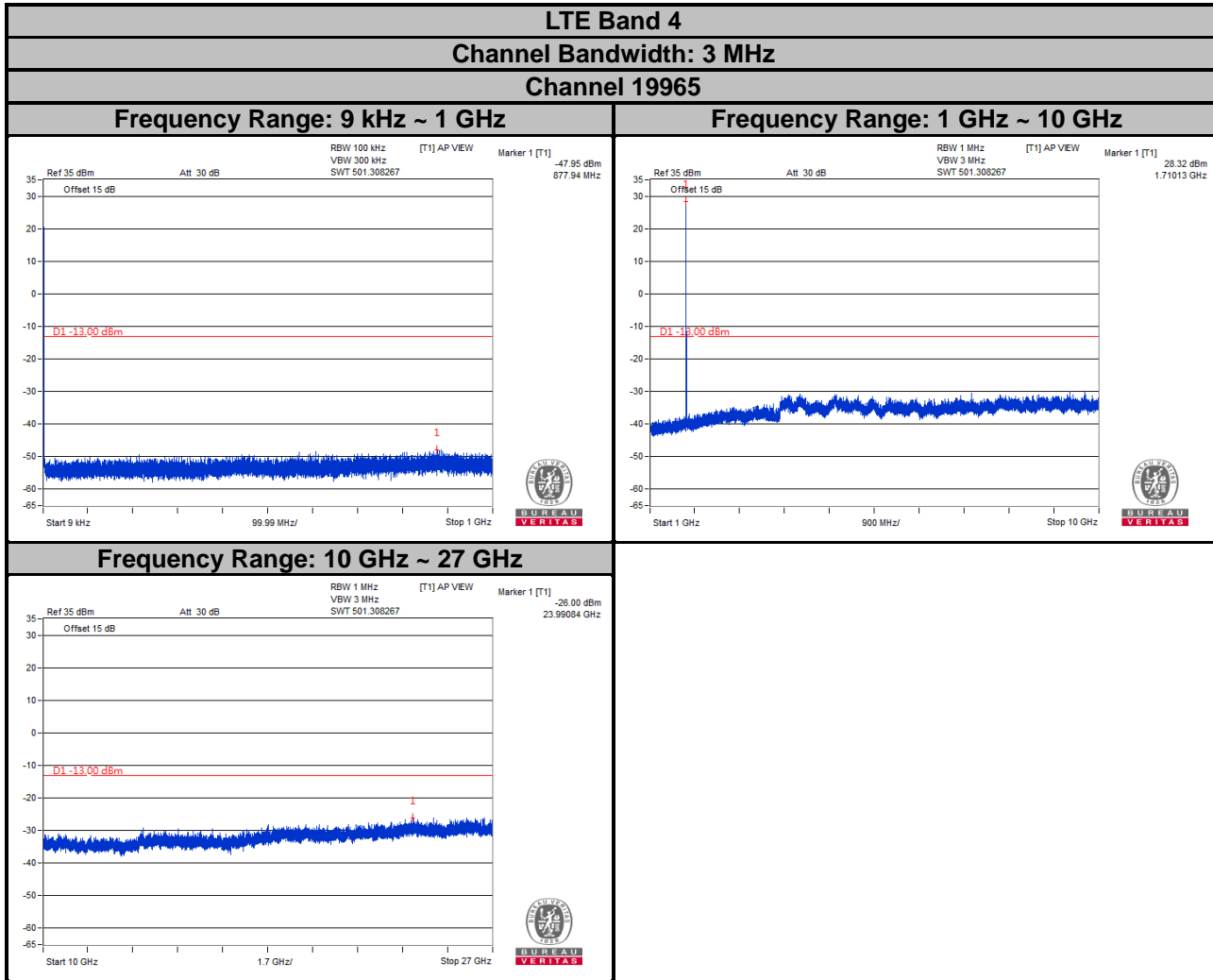
Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



Note: The signal over the limit in 9 kHz is from spectrum analyzer.



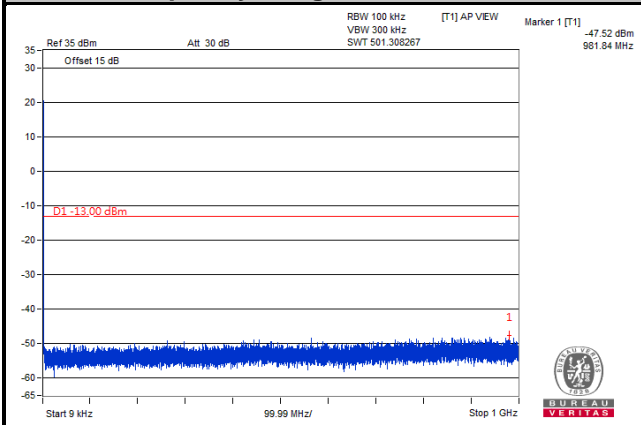
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4

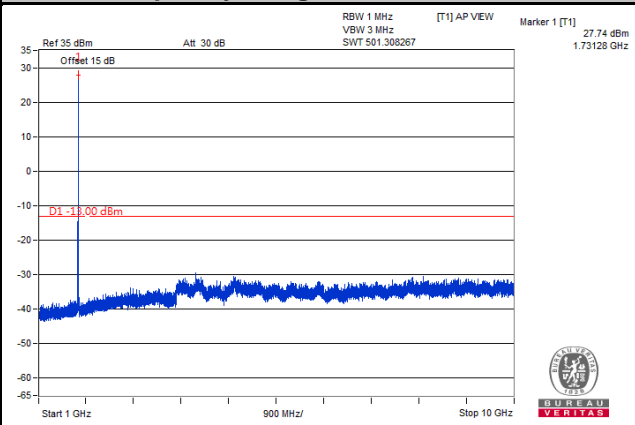
Channel Bandwidth: 3 MHz

Channel 20175

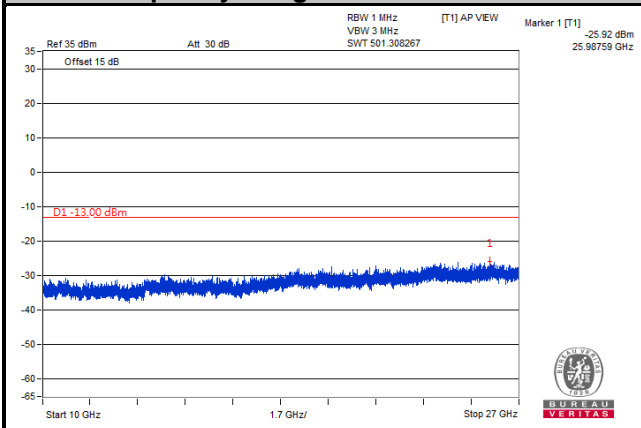
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



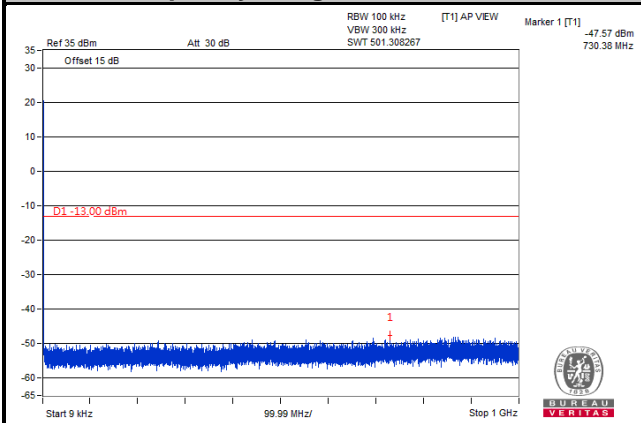
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4

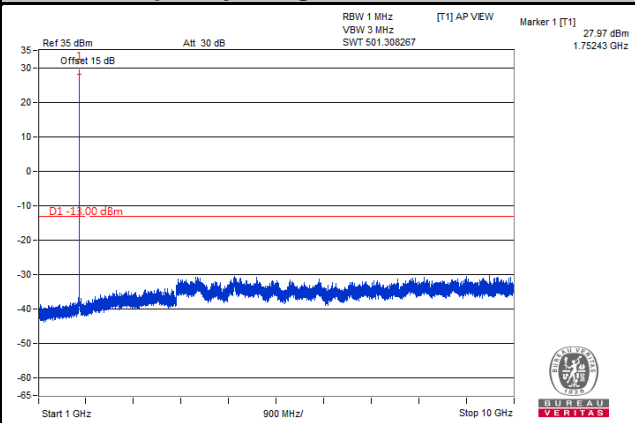
Channel Bandwidth: 3 MHz

Channel 20385

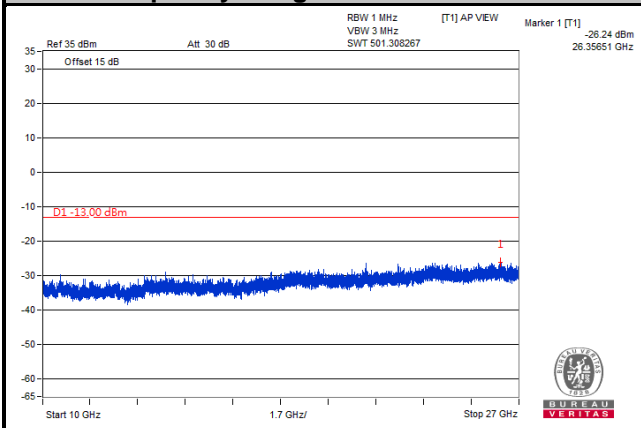
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz

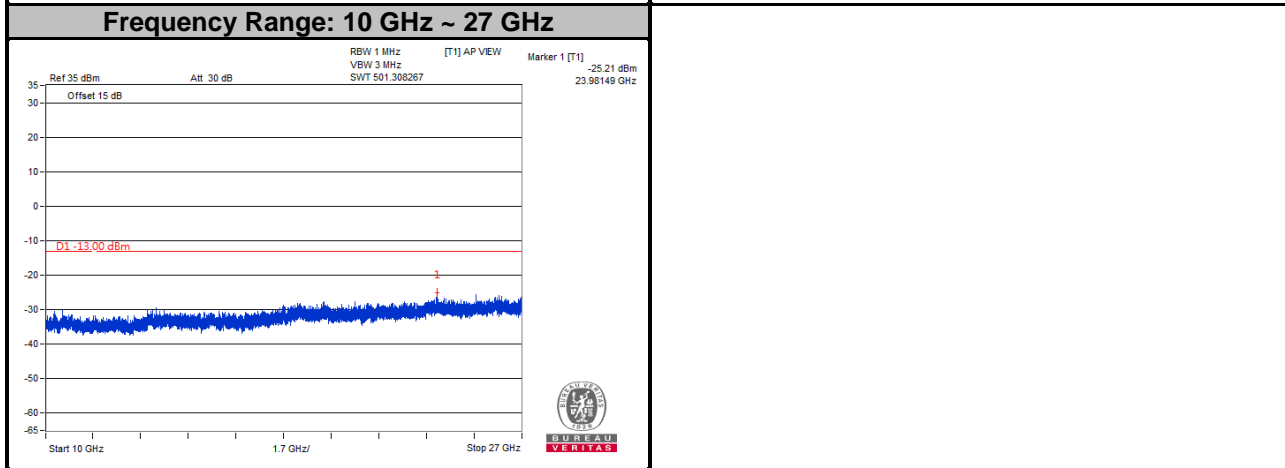
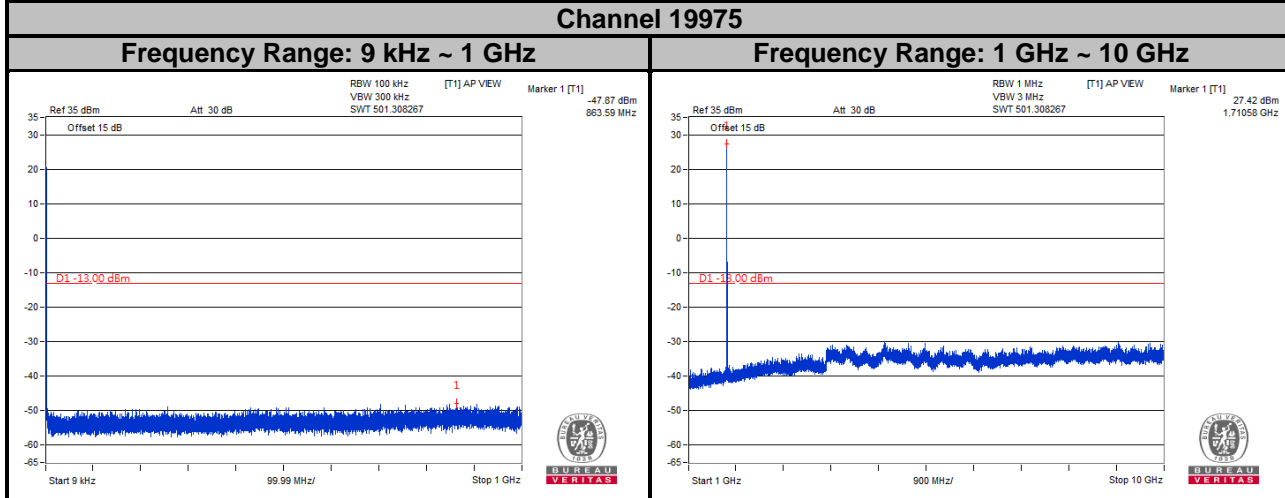


Frequency Range: 10 GHz ~ 27 GHz



Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4
Channel Bandwidth: 5 MHz
Channel 19975



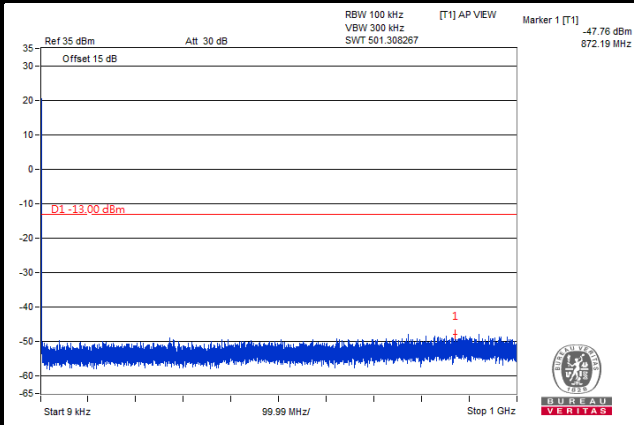
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4

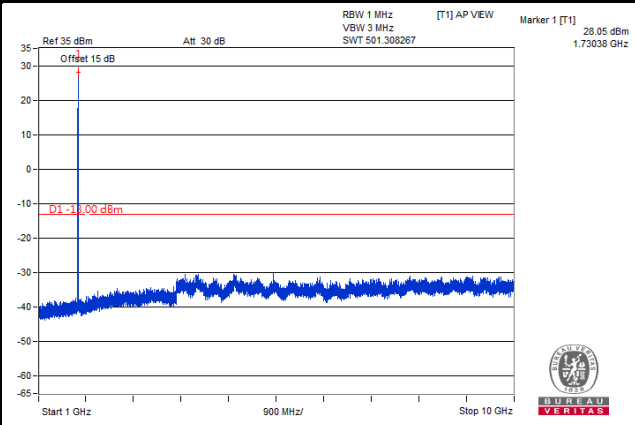
Channel Bandwidth: 5 MHz

Channel 20175

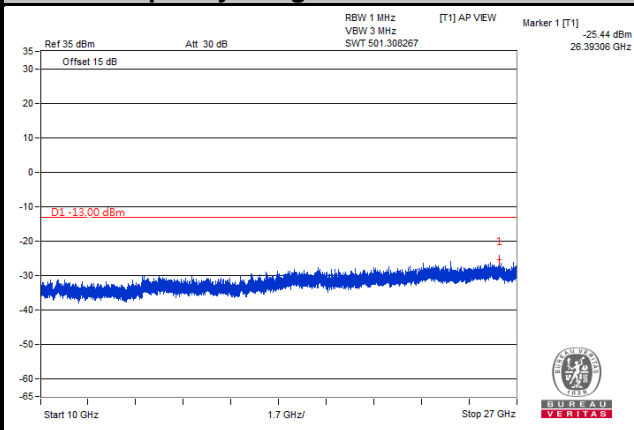
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



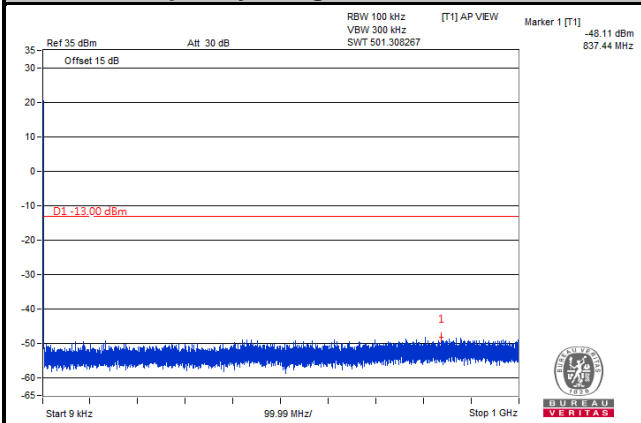
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4

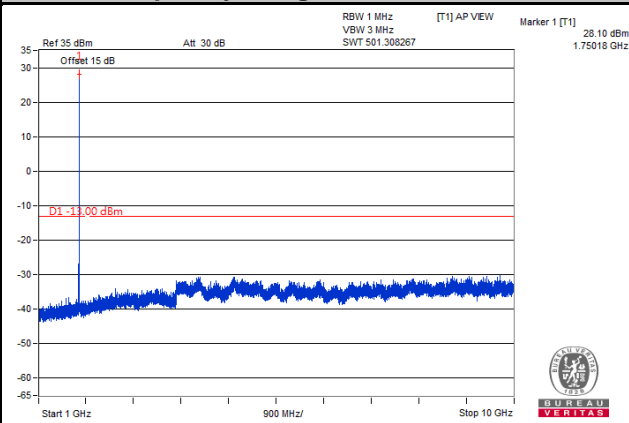
Channel Bandwidth: 5 MHz

Channel 20375

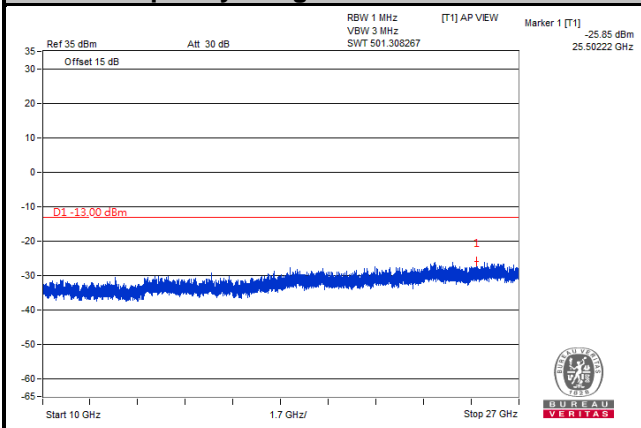
Frequency Range: 9 kHz ~ 1 GHz



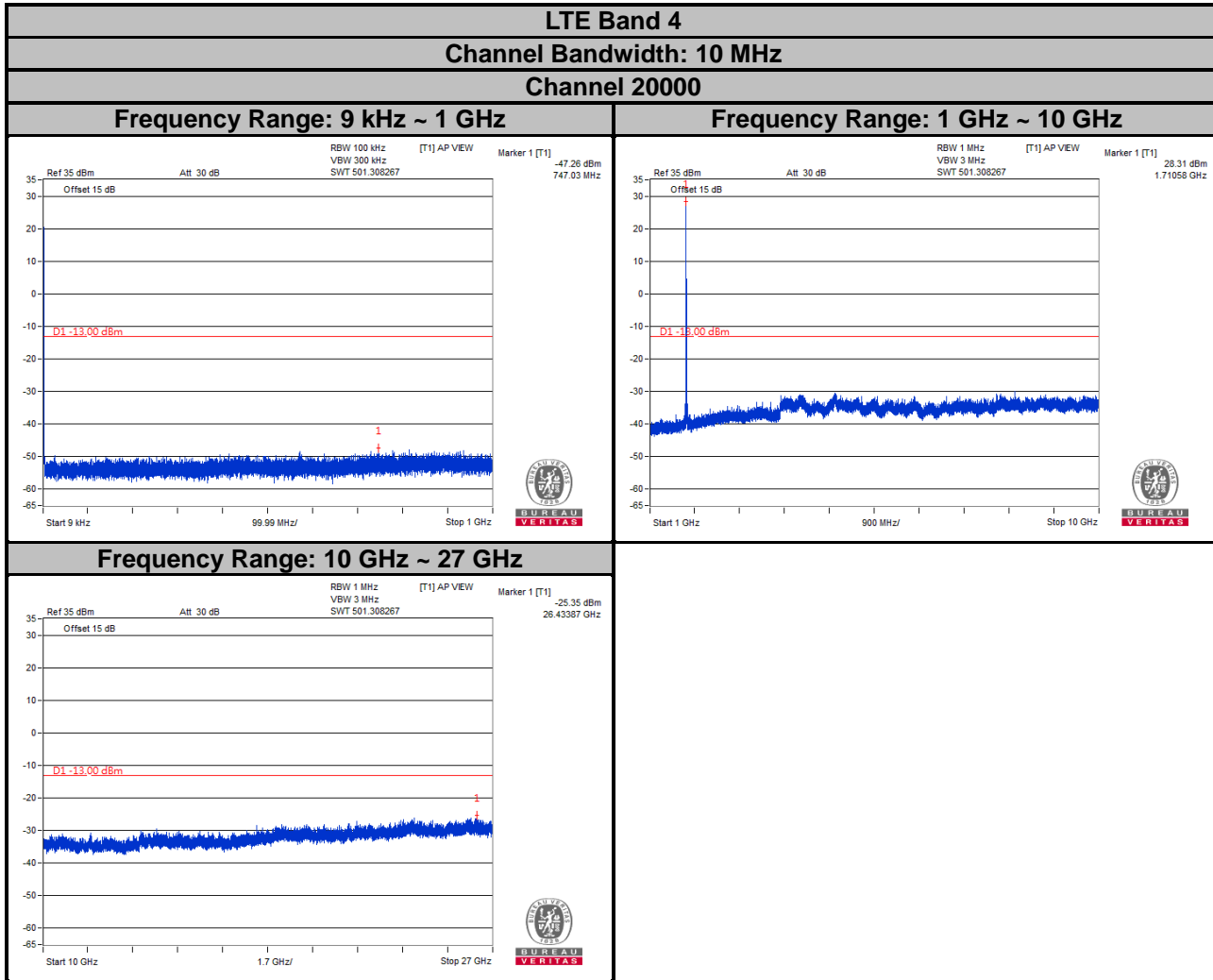
Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



Note: The signal over the limit in 9 kHz is from spectrum analyzer.



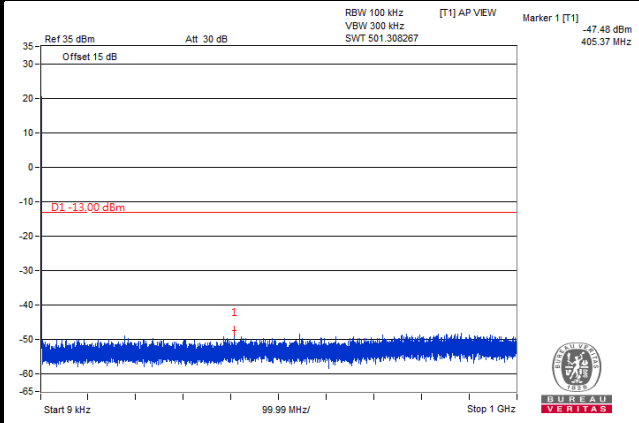
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4

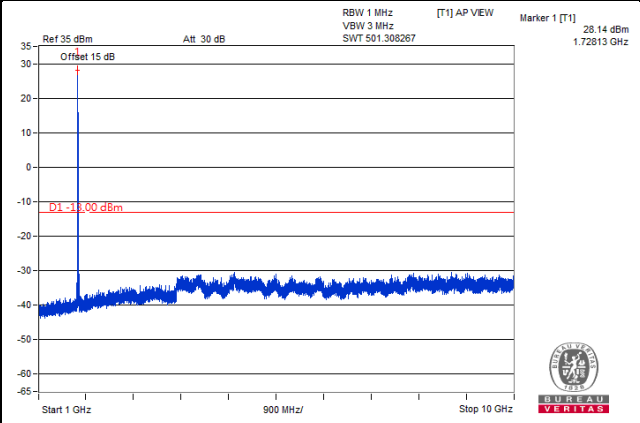
Channel Bandwidth: 10 MHz

Channel 20175

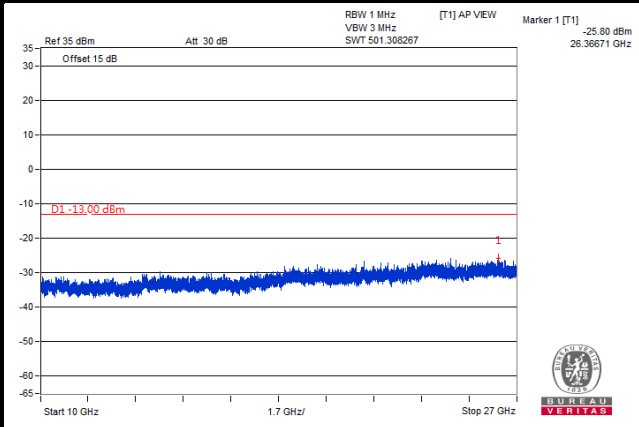
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



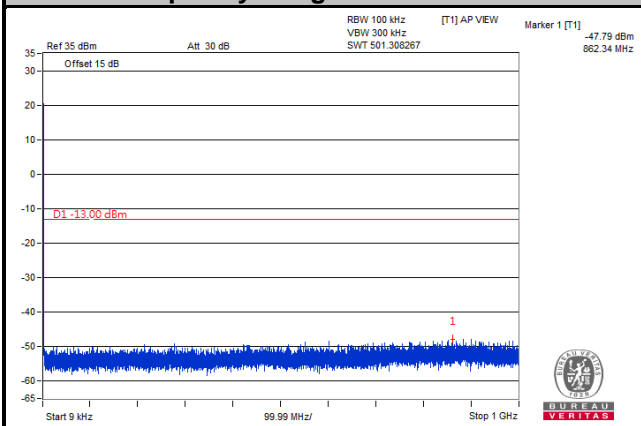
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4

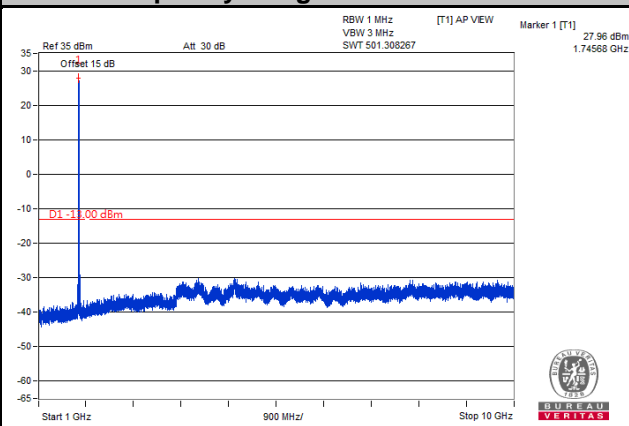
Channel Bandwidth: 10 MHz

Channel 20350

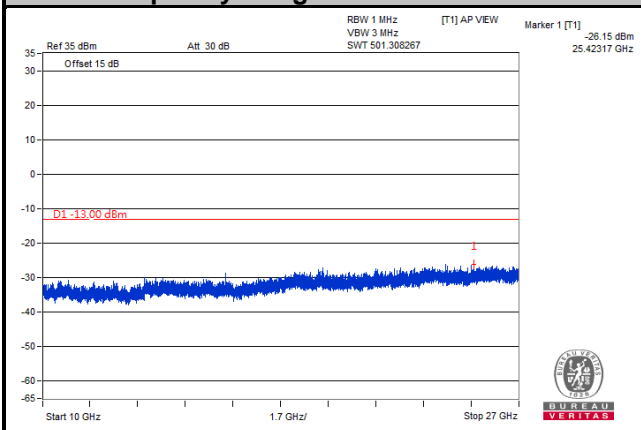
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



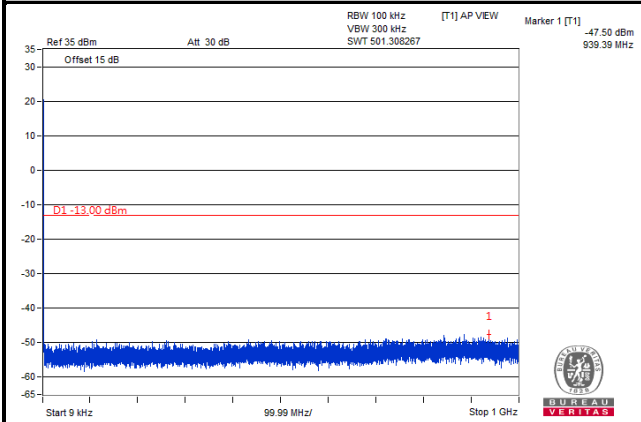
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4

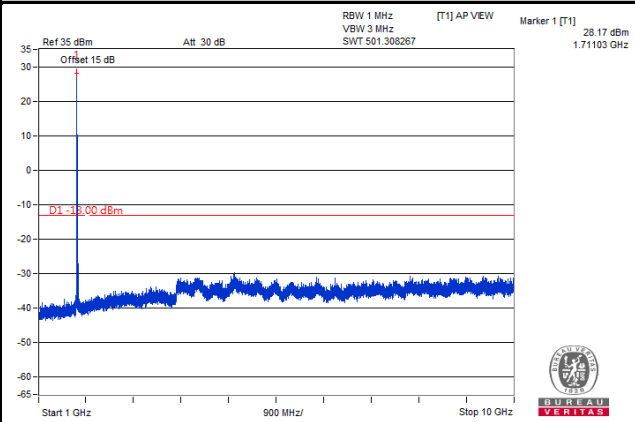
Channel Bandwidth: 15 MHz

Channel 20025

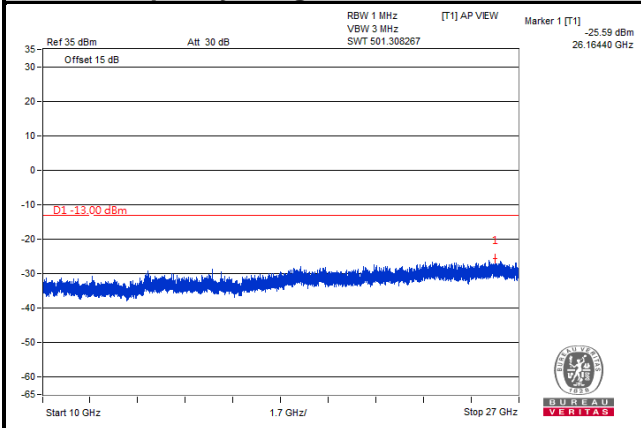
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



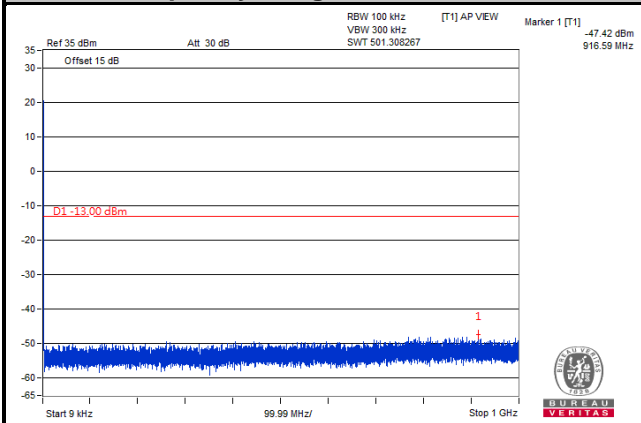
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4

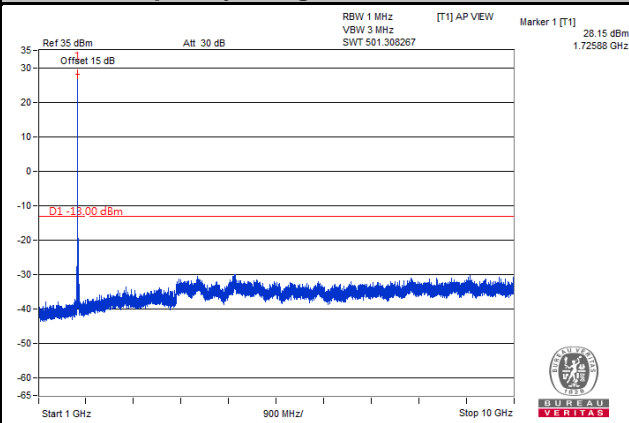
Channel Bandwidth: 15 MHz

Channel 20175

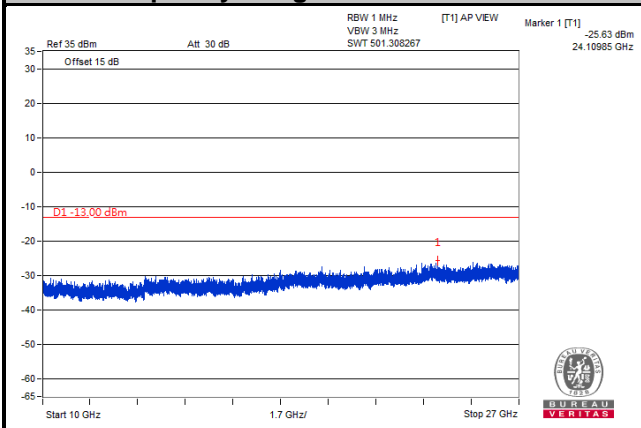
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



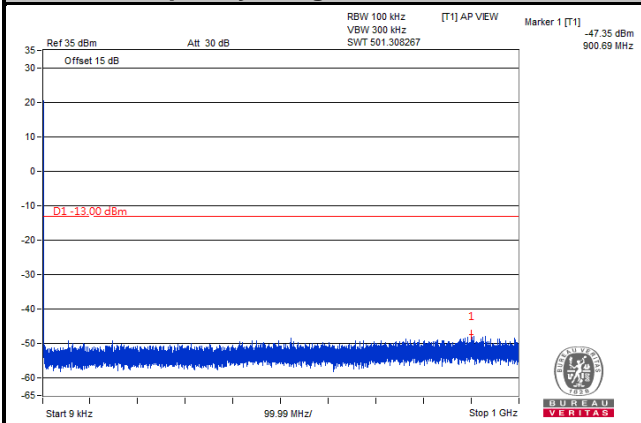
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4

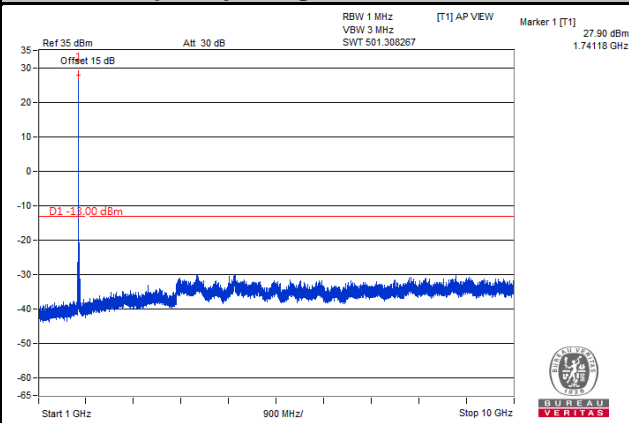
Channel Bandwidth: 15 MHz

Channel 20325

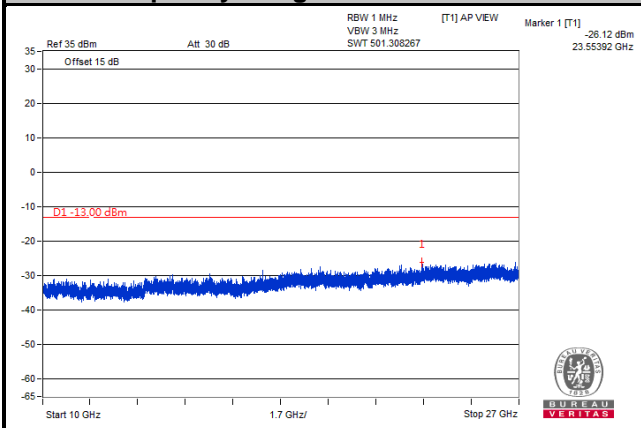
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



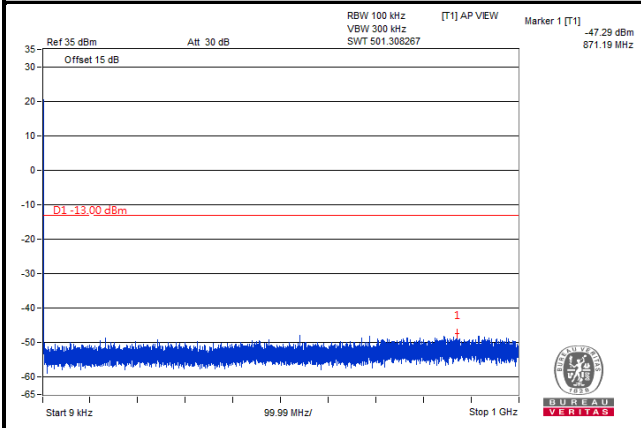
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4

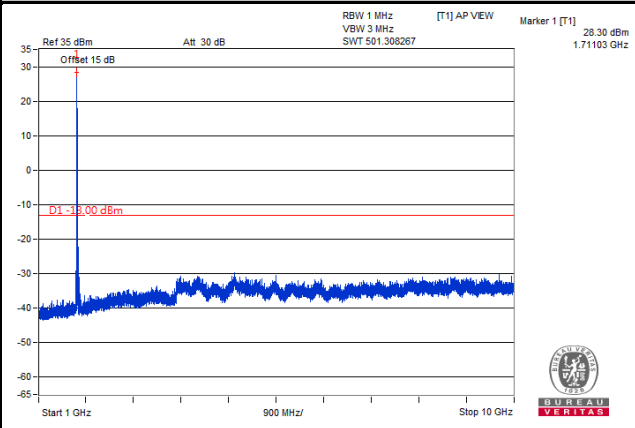
Channel Bandwidth: 20 MHz

Channel 20050

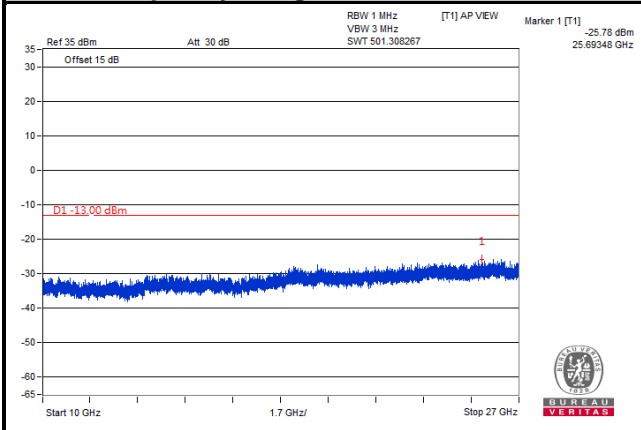
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



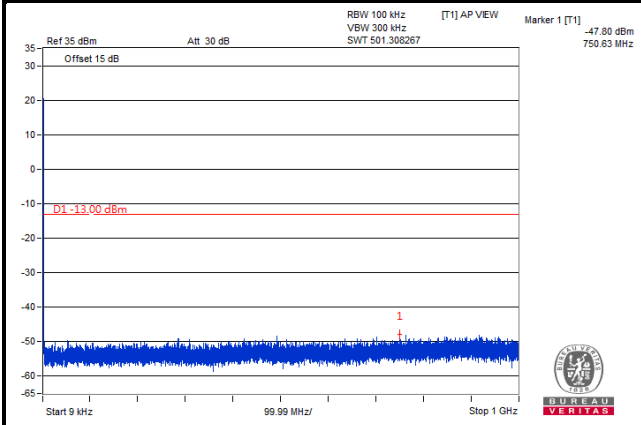
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4

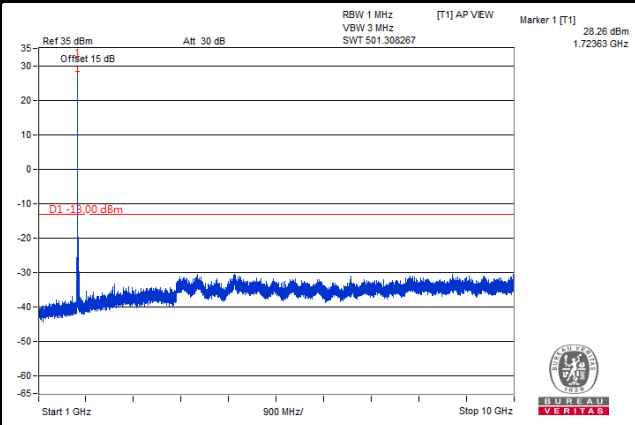
Channel Bandwidth: 20 MHz

Channel 20175

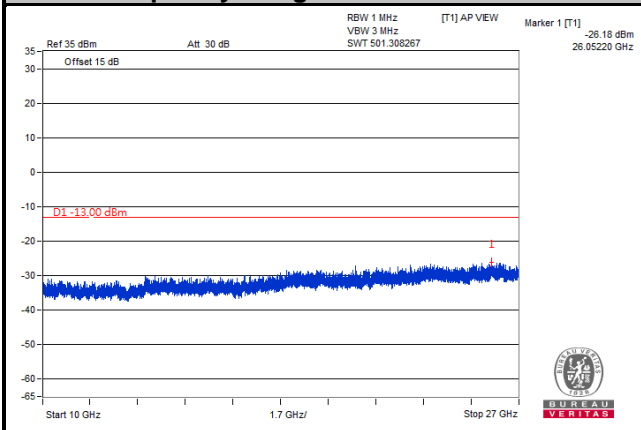
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



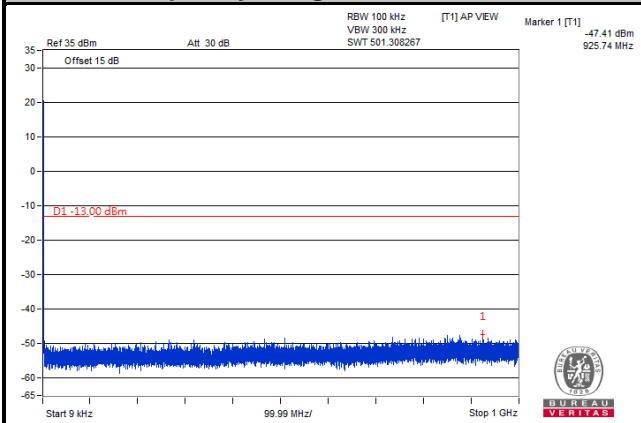
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 4

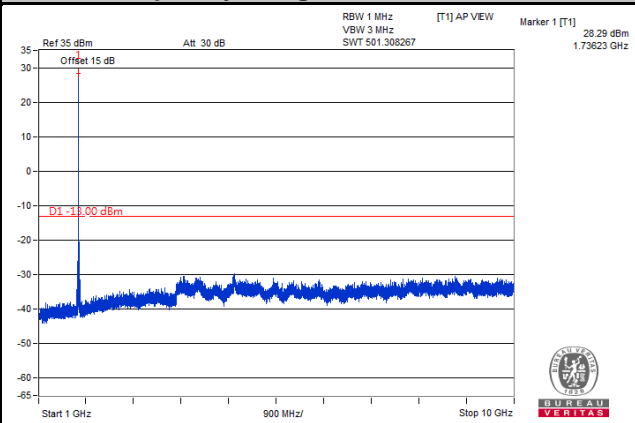
Channel Bandwidth: 20 MHz

Channel 20300

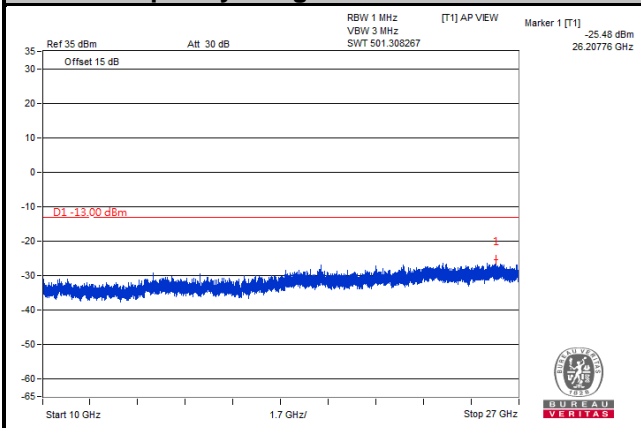
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz

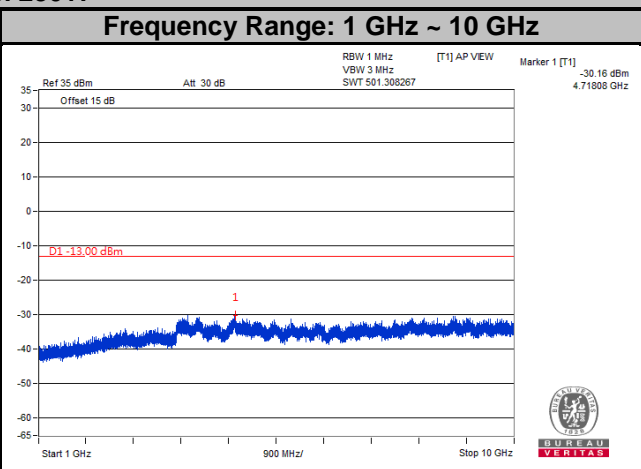
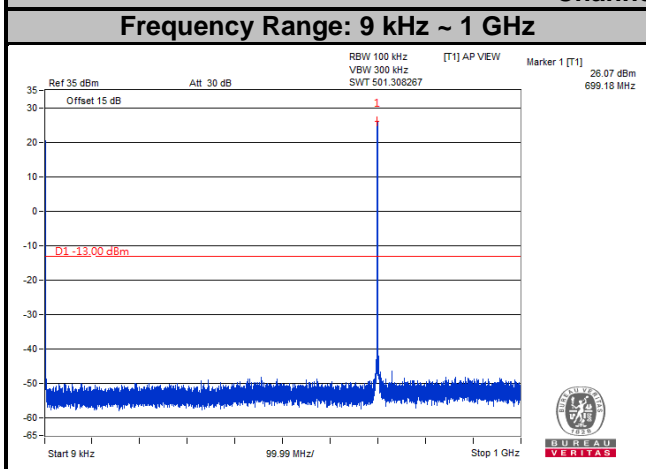


Frequency Range: 10 GHz ~ 27 GHz

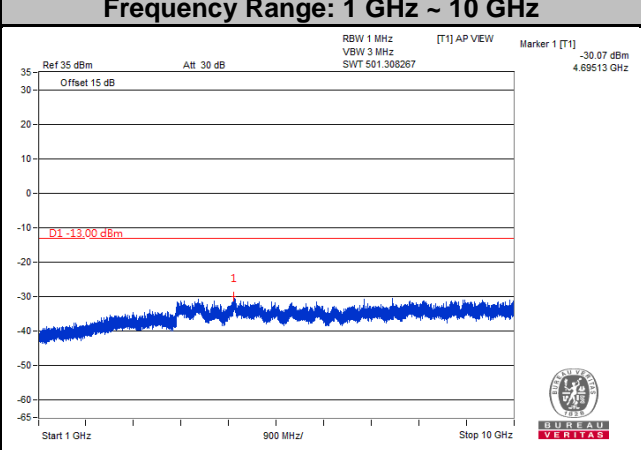
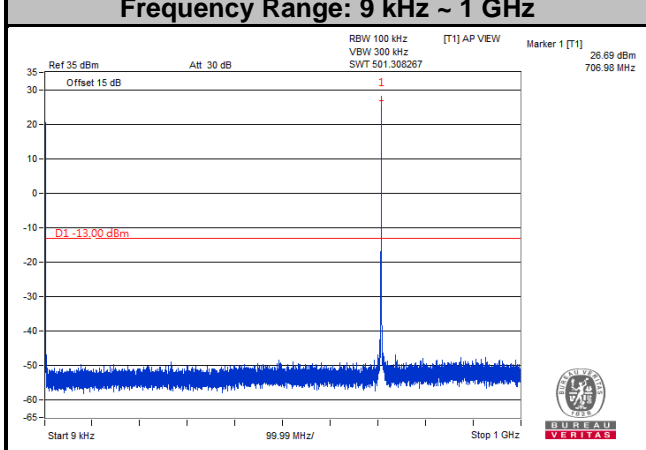


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

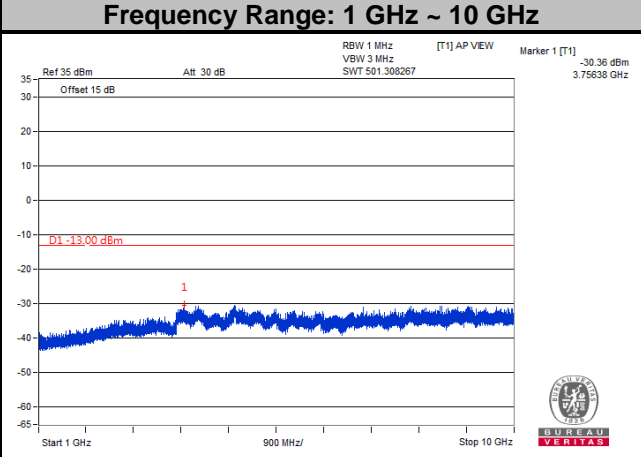
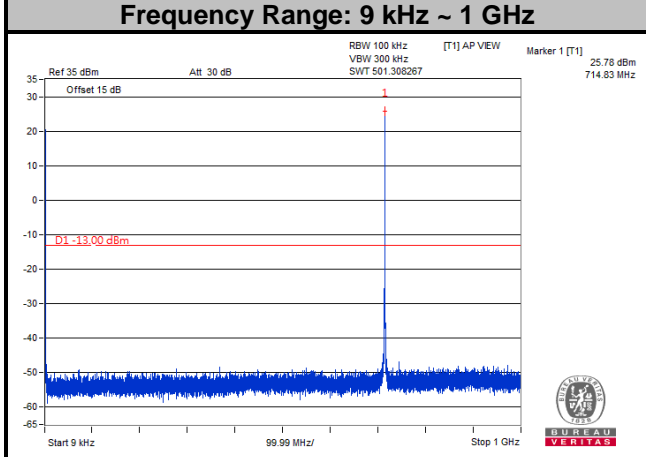
LTE Band 12
Channel Bandwidth: 1.4 MHz
Channel 23017



Channel 23095

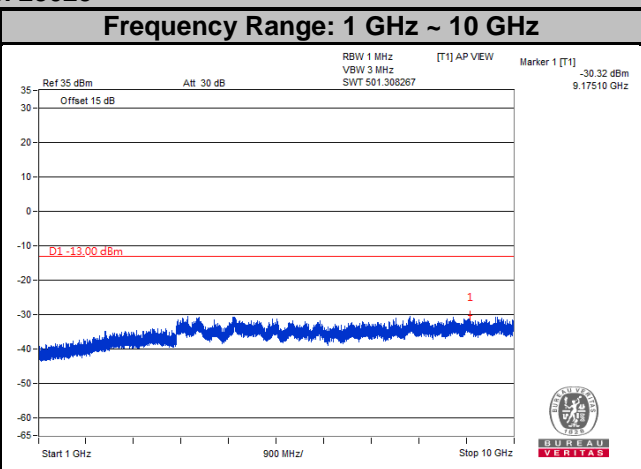
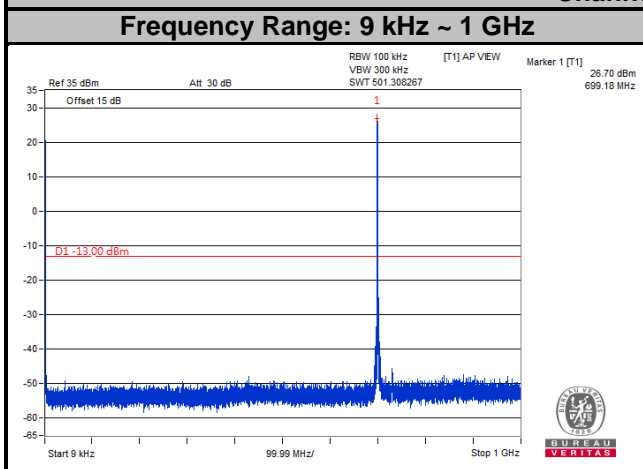


Channel 23173

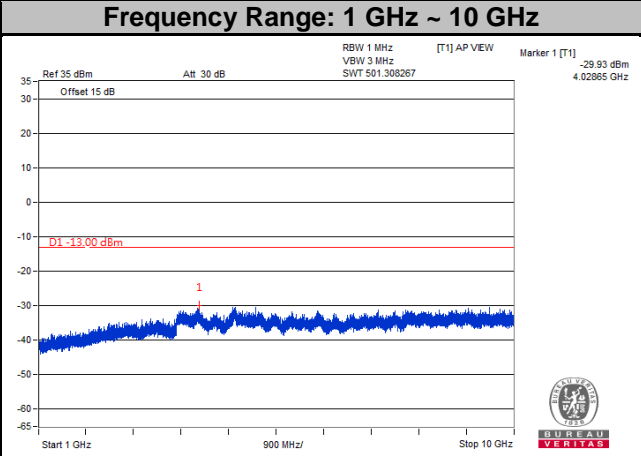
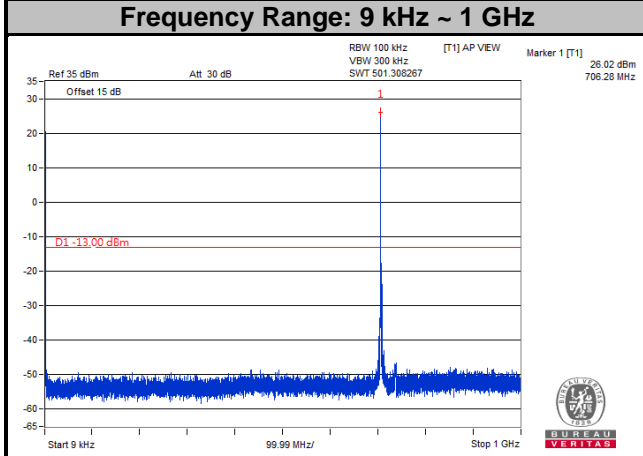


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

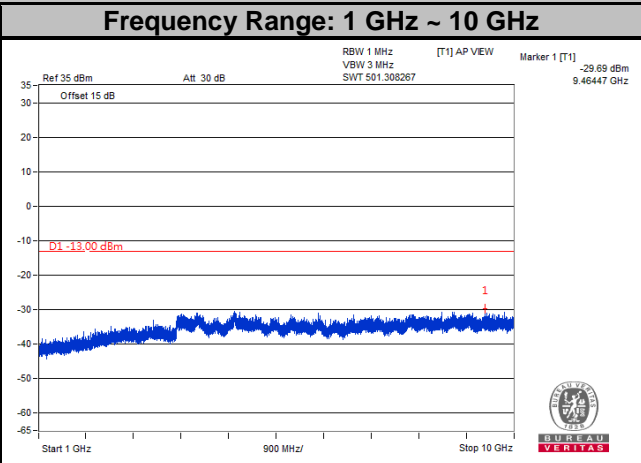
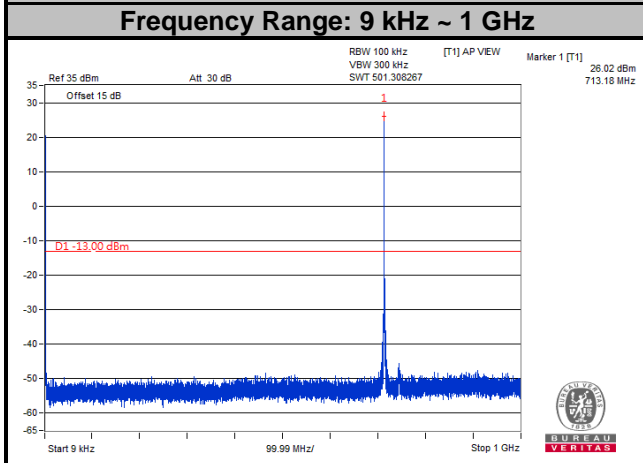
LTE Band 12
Channel Bandwidth: 3 MHz
Channel 23025



Channel 23095

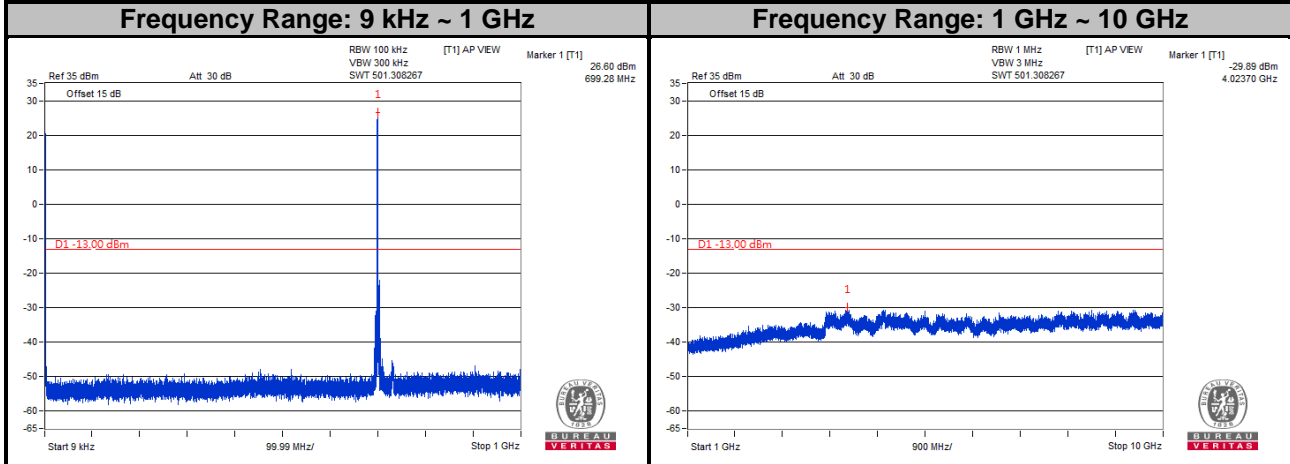


Channel 23165

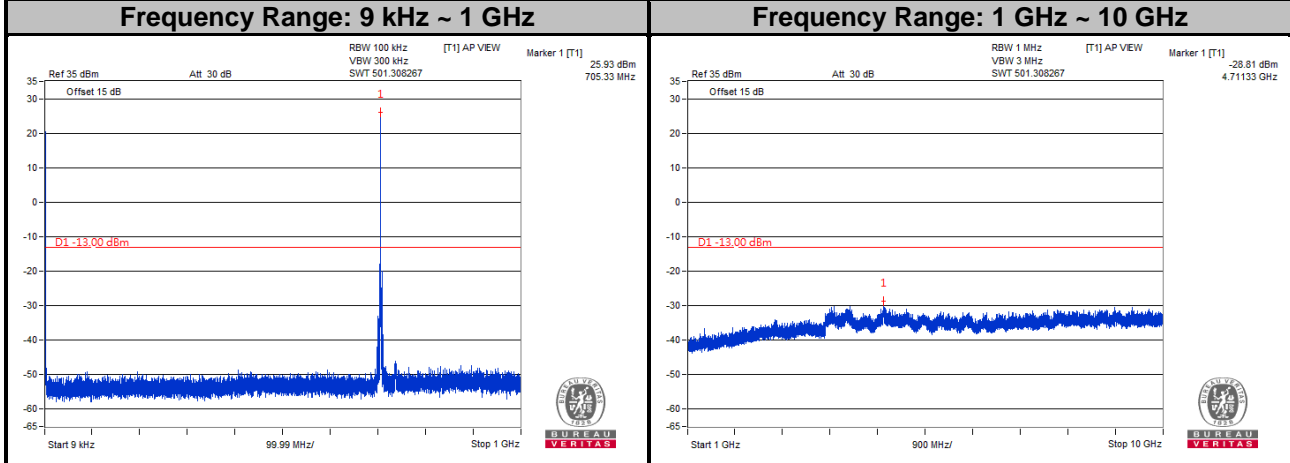


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

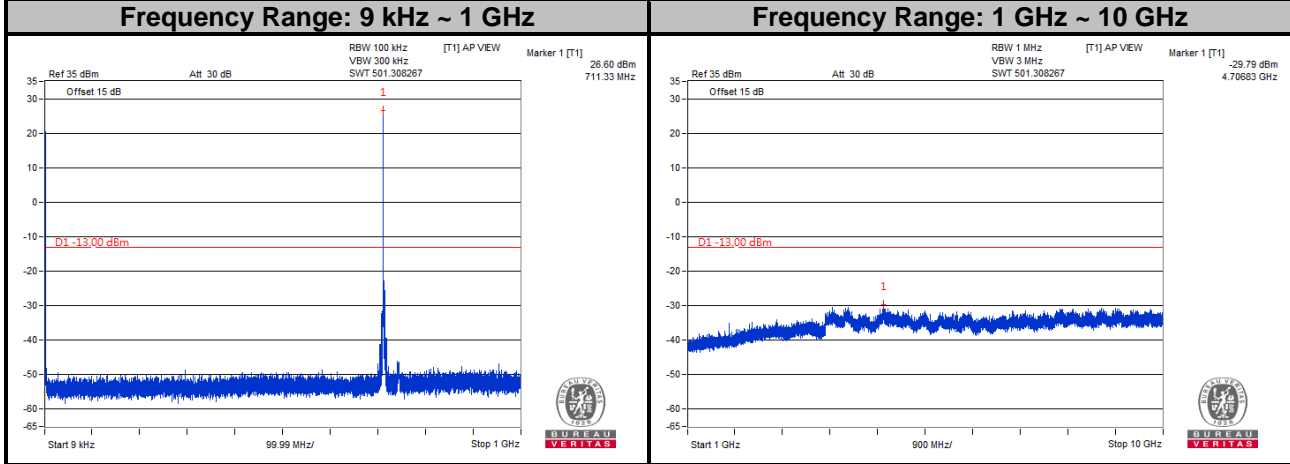
LTE Band 12
Channel Bandwidth: 5 MHz
Channel 23035



Channel 23095

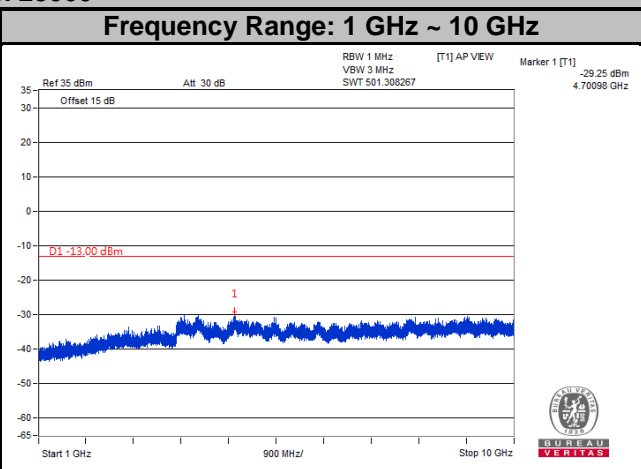
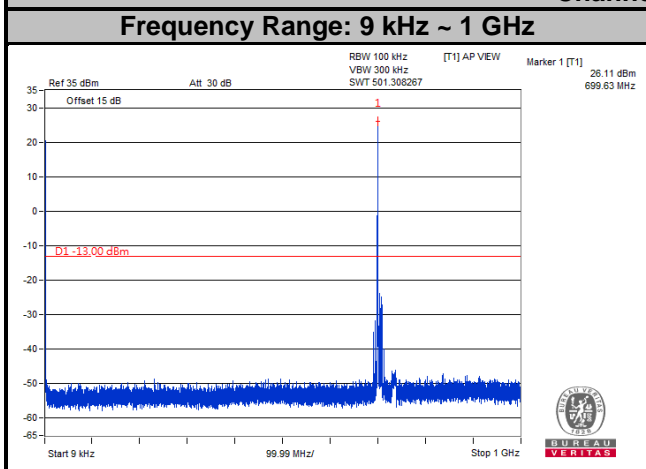


Channel 23155

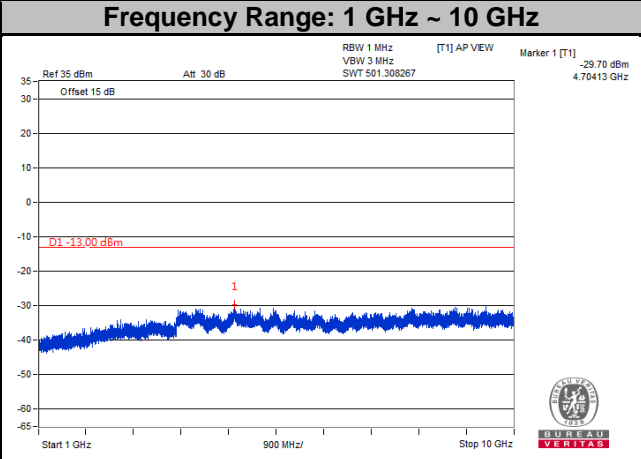
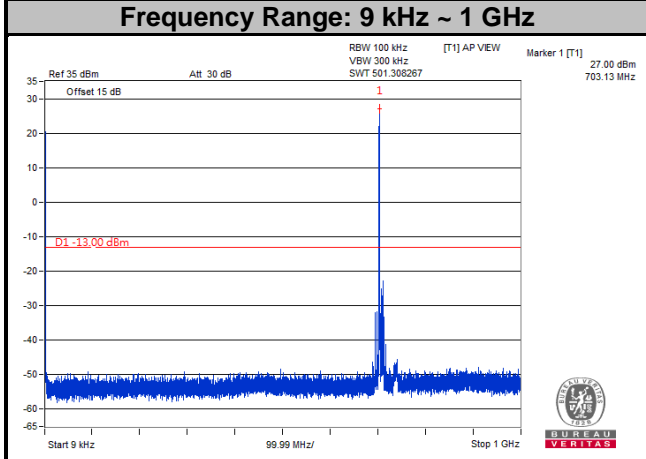


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

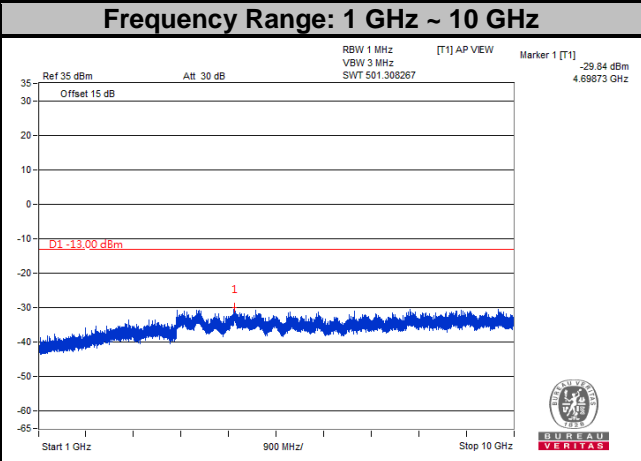
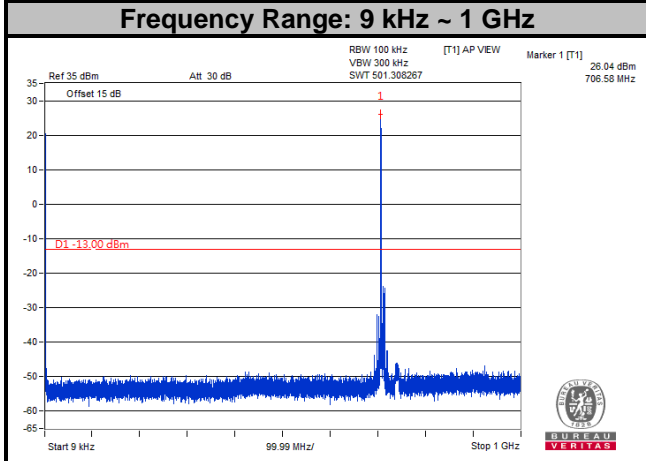
LTE Band 12
Channel Bandwidth: 10 MHz
Channel 23060



Channel 23095



Channel 23130



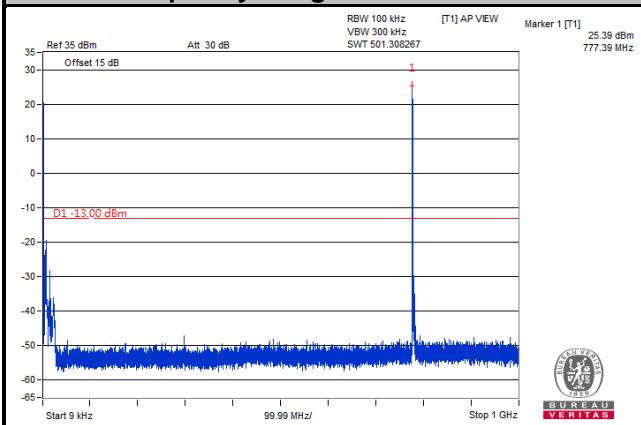
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 13

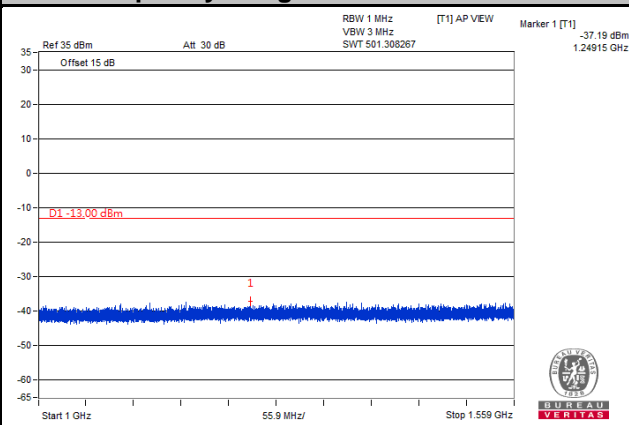
Channel Bandwidth: 5 MHz

Channel 23205

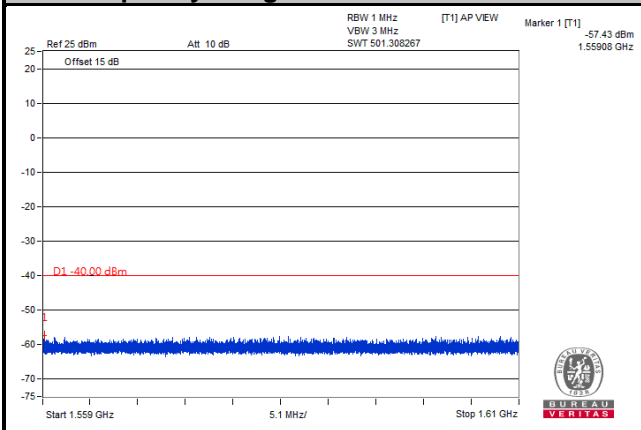
Frequency Range: 9 kHz ~ 1 GHz



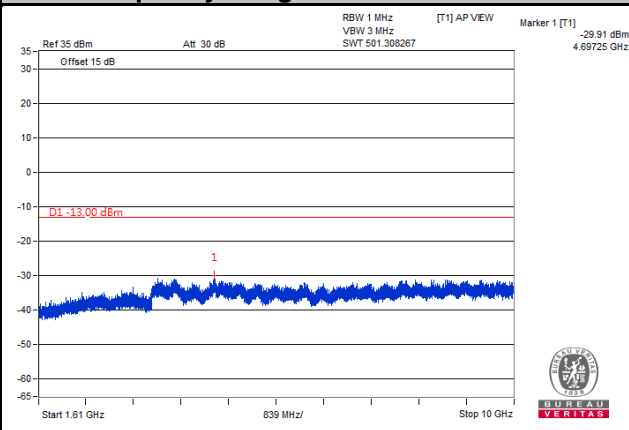
Frequency Range: 1 GHz ~ 1.559 GHz



Frequency Range: 1.559 GHz ~ 1.61 GHz



Frequency Range: 1.61 GHz ~ 10 GHz



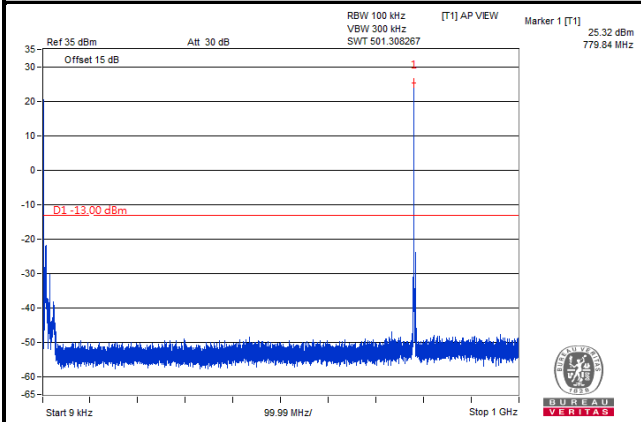
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 13

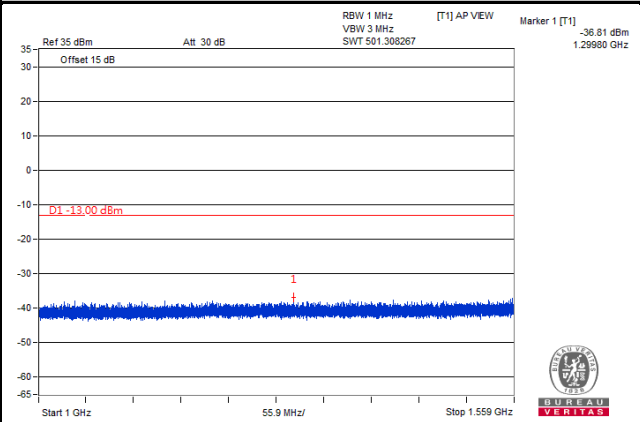
Channel Bandwidth: 5 MHz

Channel 23230

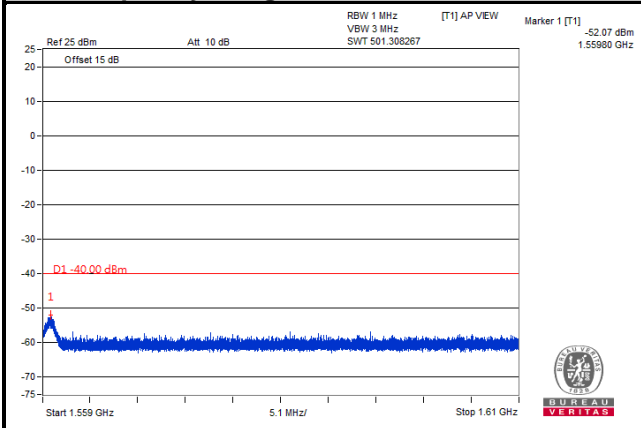
Frequency Range: 9 kHz ~ 1 GHz



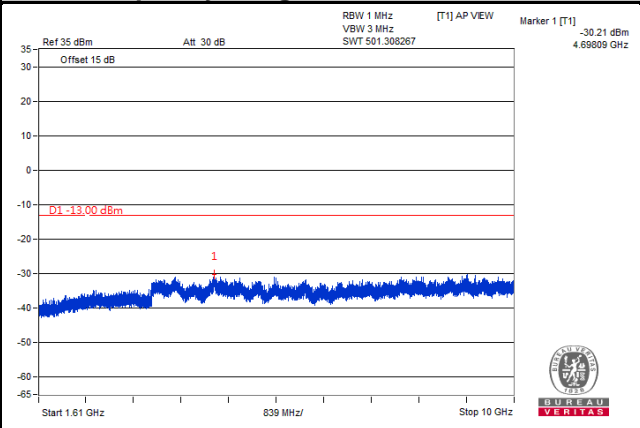
Frequency Range: 1 GHz ~ 1.559 GHz



Frequency Range: 1.559 GHz ~ 1.61 GHz



Frequency Range: 1.61 GHz ~ 10 GHz



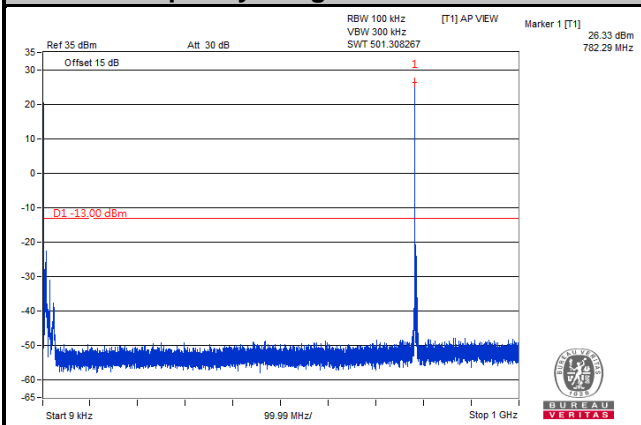
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 13

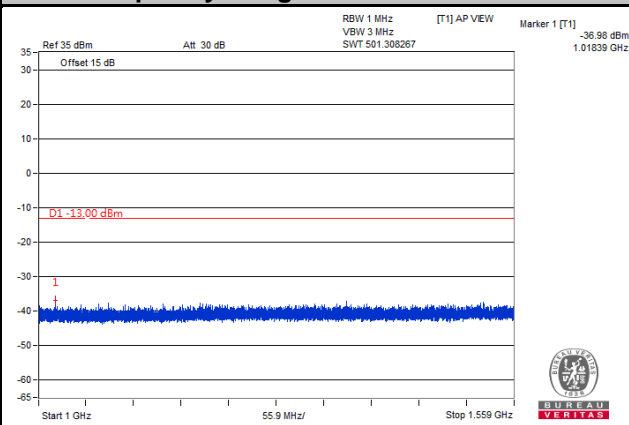
Channel Bandwidth: 5 MHz

Channel 23255

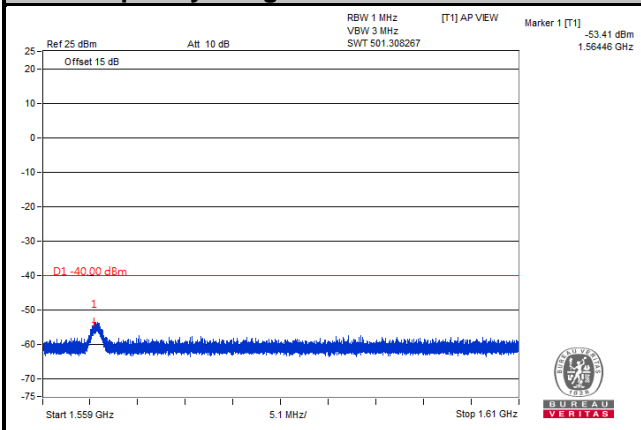
Frequency Range: 9 kHz ~ 1 GHz



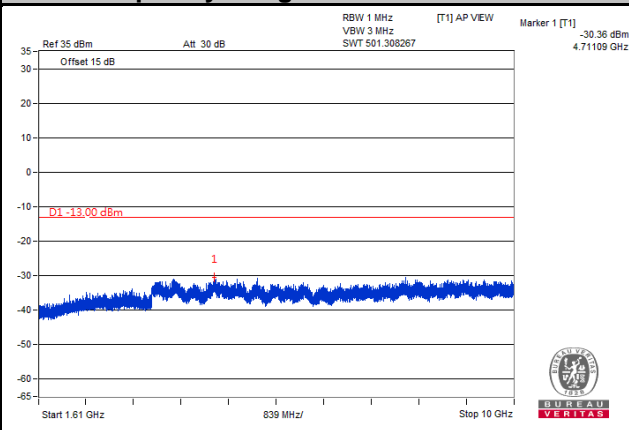
Frequency Range: 1 GHz ~ 1.559 GHz



Frequency Range: 1.559 GHz ~ 1.61 GHz



Frequency Range: 1.61 GHz ~ 10 GHz



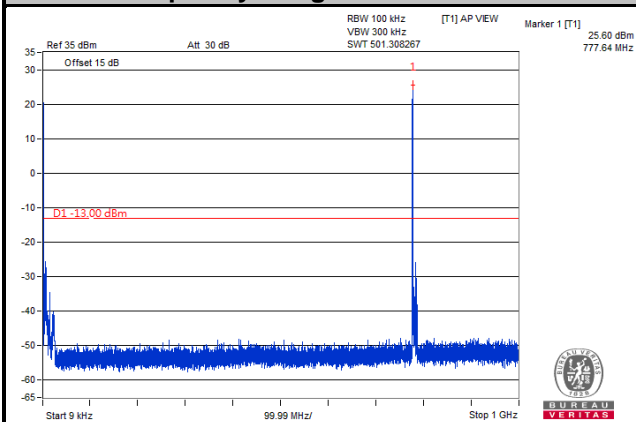
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 13

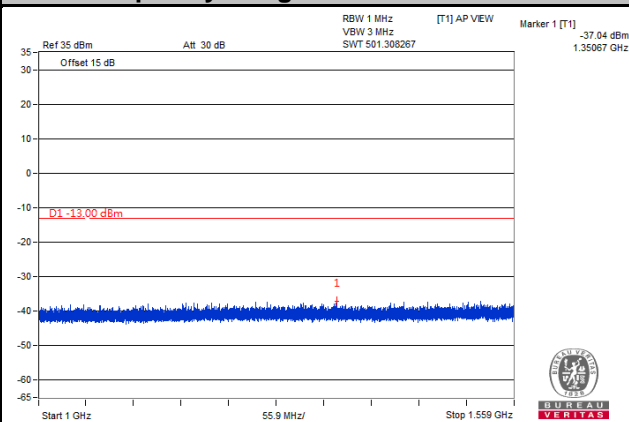
Channel Bandwidth: 10 MHz

Channel 23230

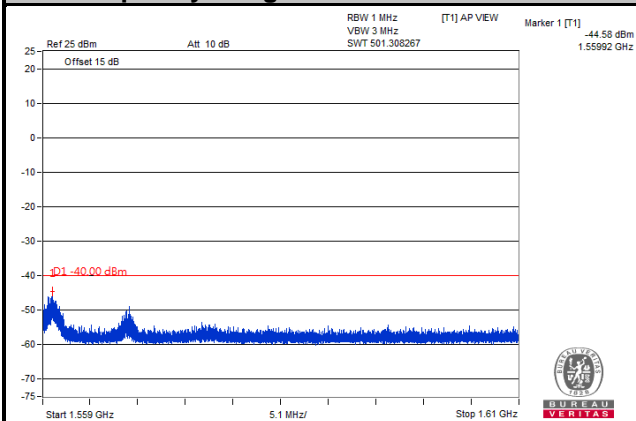
Frequency Range: 9 kHz ~ 1 GHz



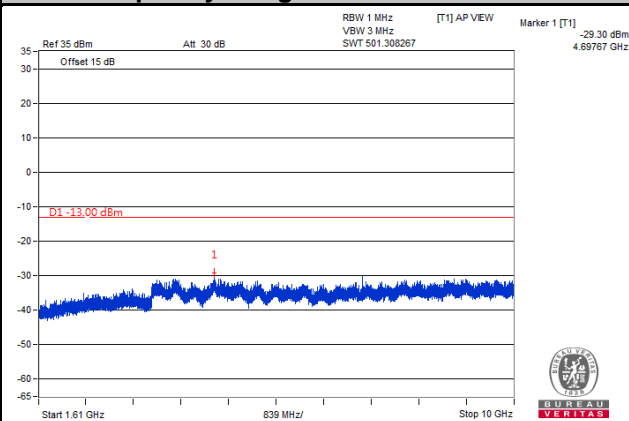
Frequency Range: 1 GHz ~ 1.559 GHz



Frequency Range: 1.559 GHz ~ 1.61 GHz

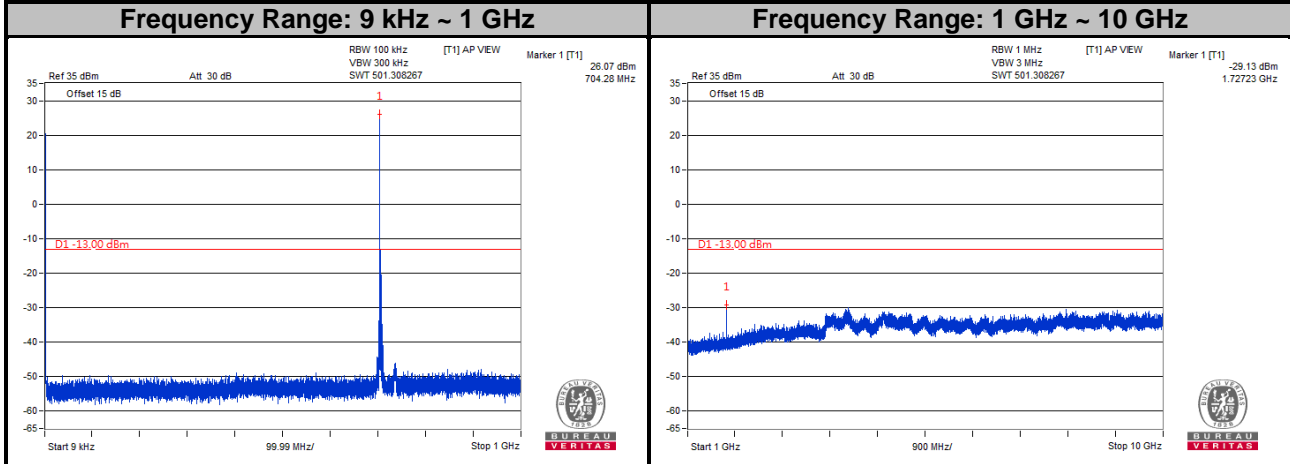


Frequency Range: 1.61 GHz ~ 10 GHz

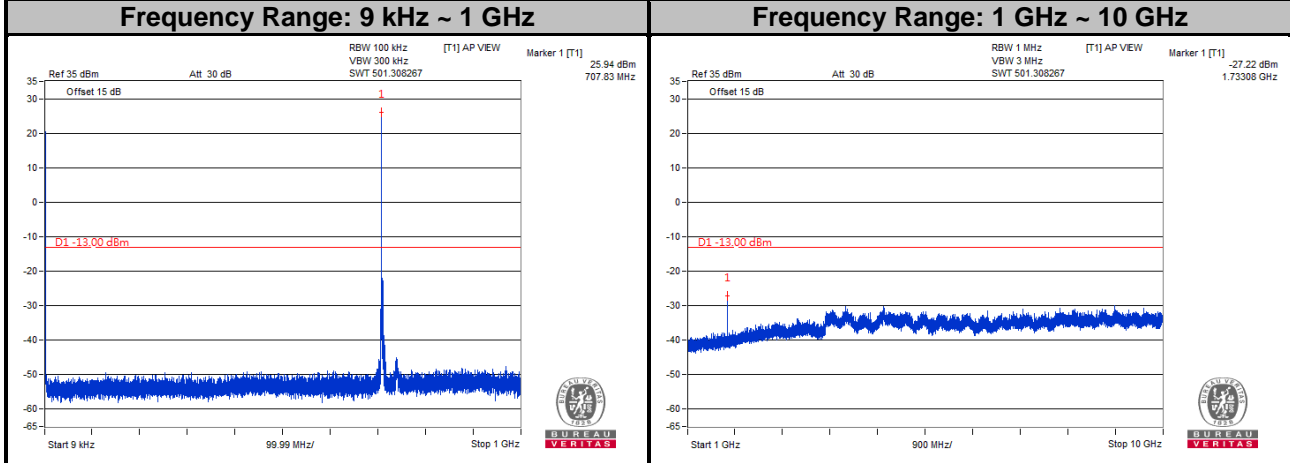


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

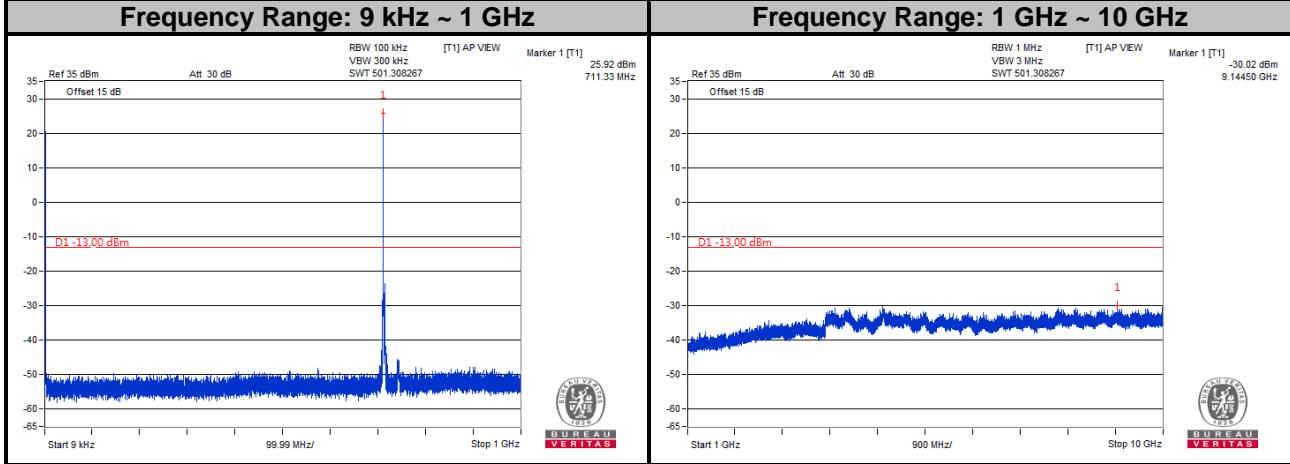
LTE Band 17
Channel Bandwidth: 5 MHz
Channel 23755



Channel 23790

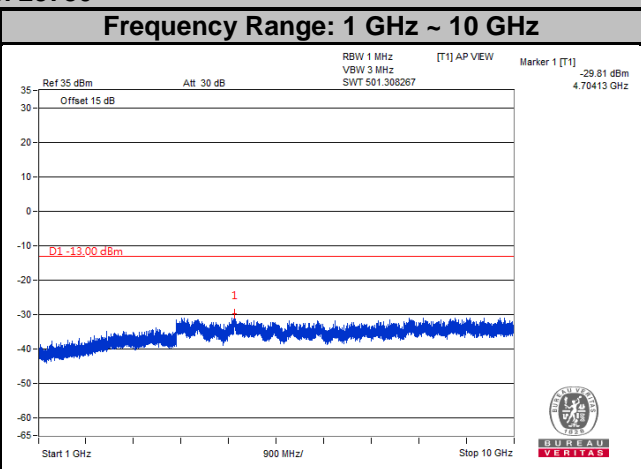
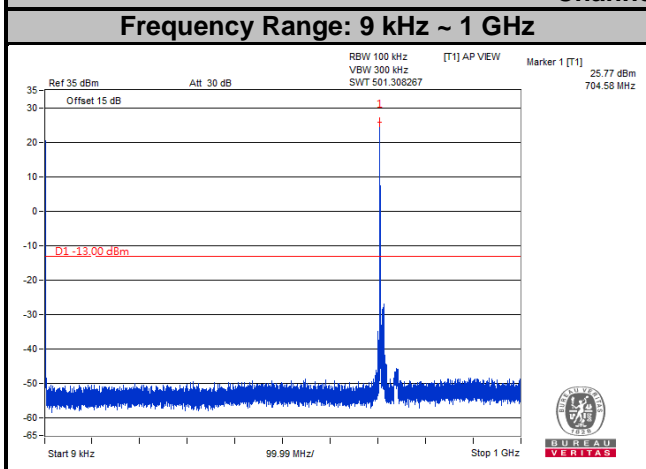


Channel 23825

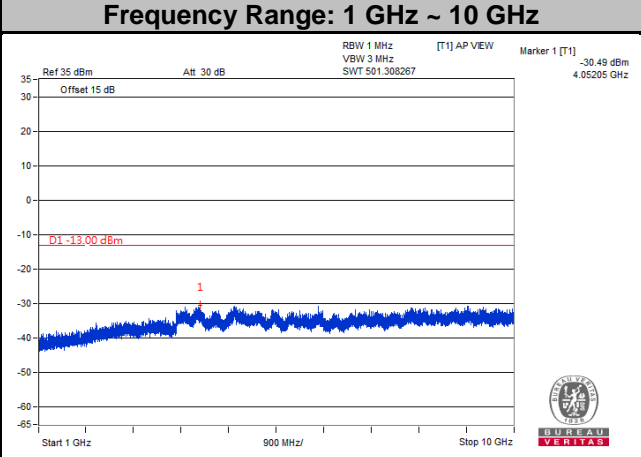
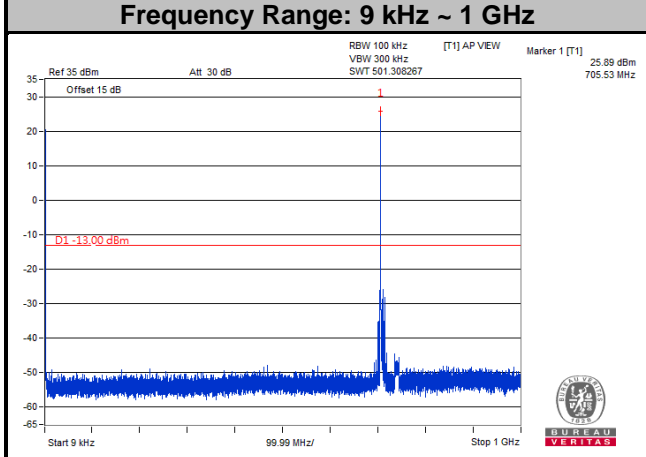


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

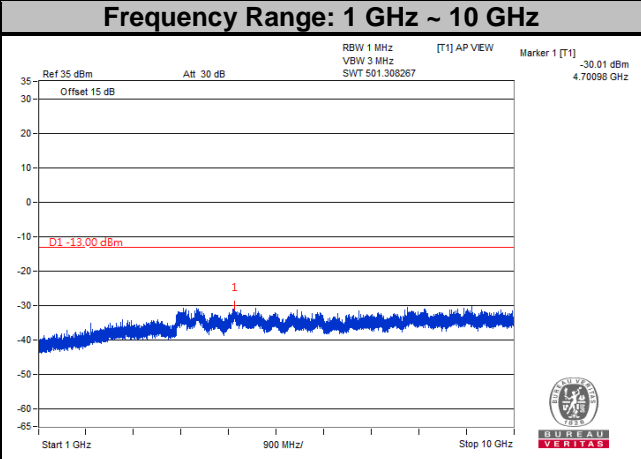
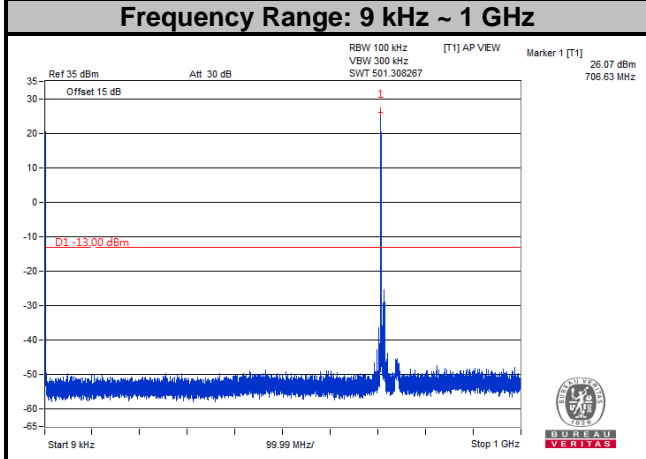
LTE Band 17
Channel Bandwidth: 10 MHz
Channel 23780



Channel 23790



Channel 23800



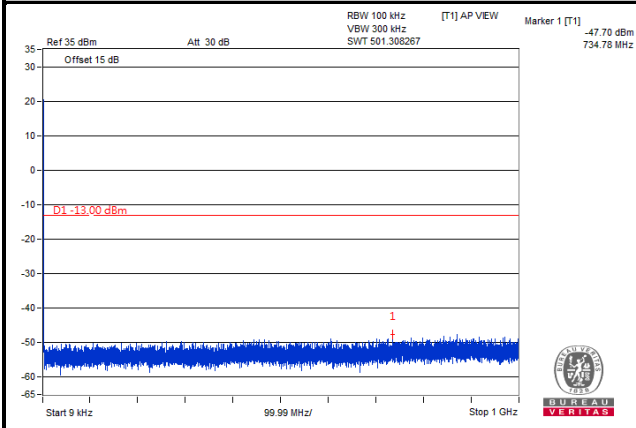
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

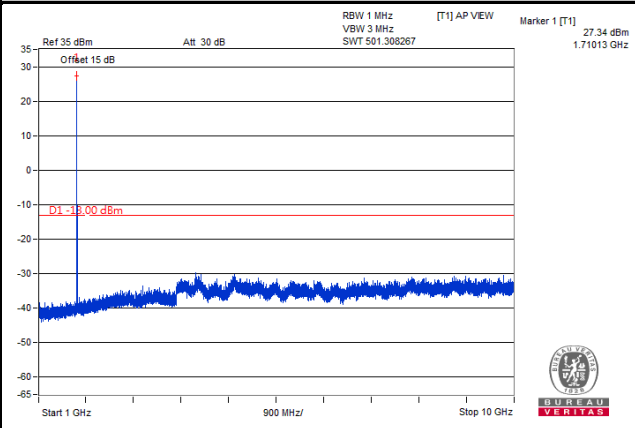
Channel Bandwidth: 1.4 MHz

Channel 131979

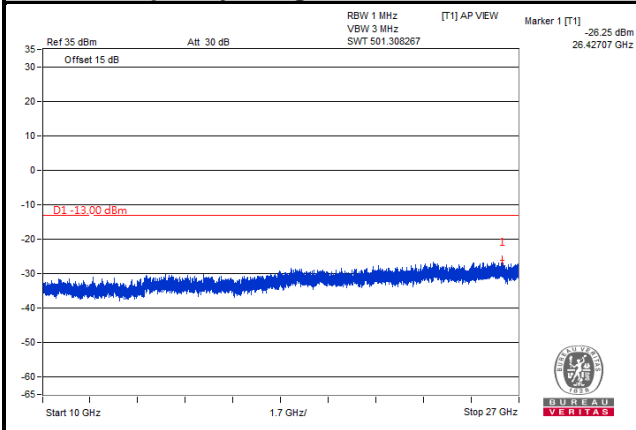
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



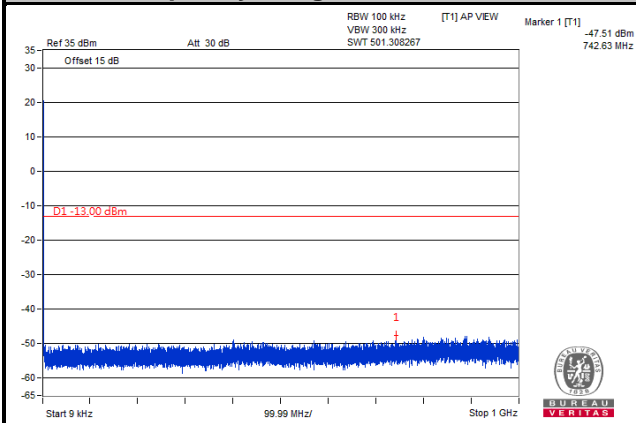
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

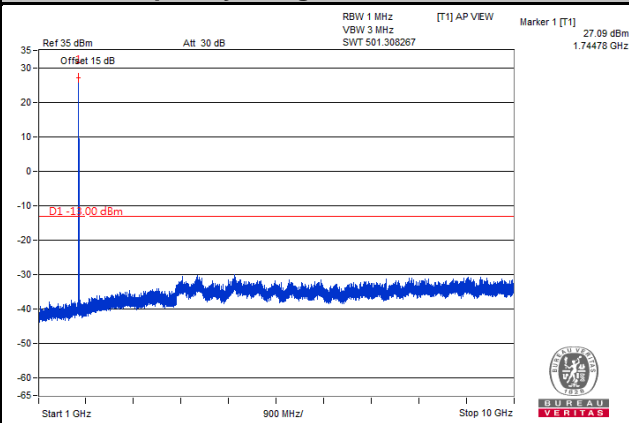
Channel Bandwidth: 1.4 MHz

Channel 132322

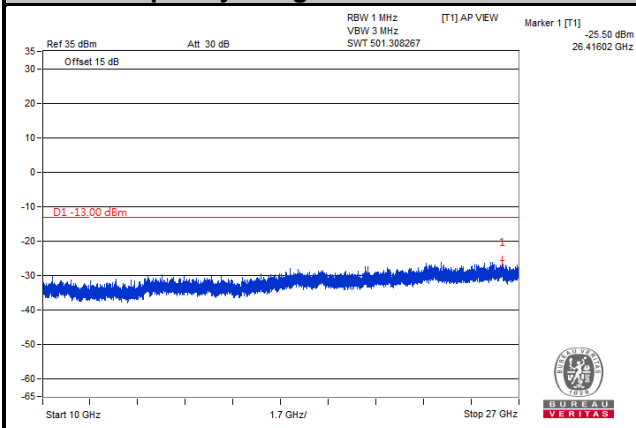
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



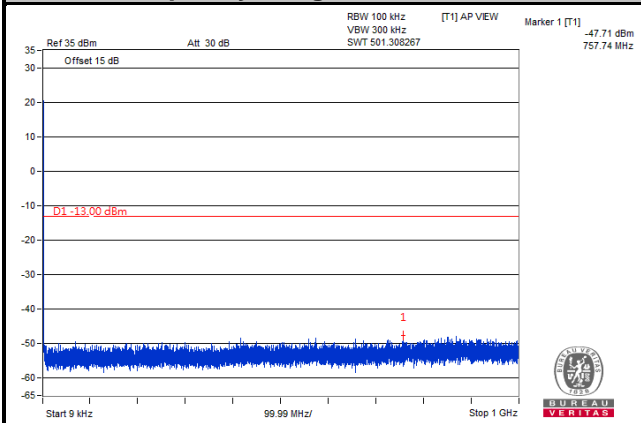
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

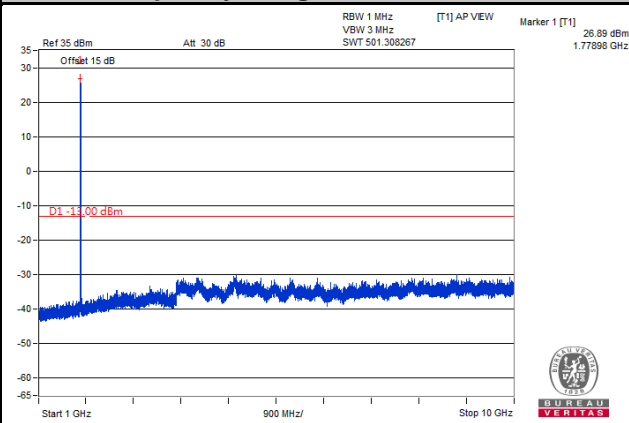
Channel Bandwidth: 1.4 MHz

Channel 132665

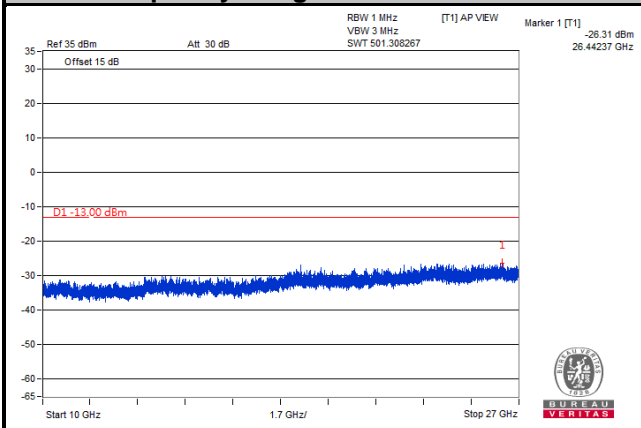
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



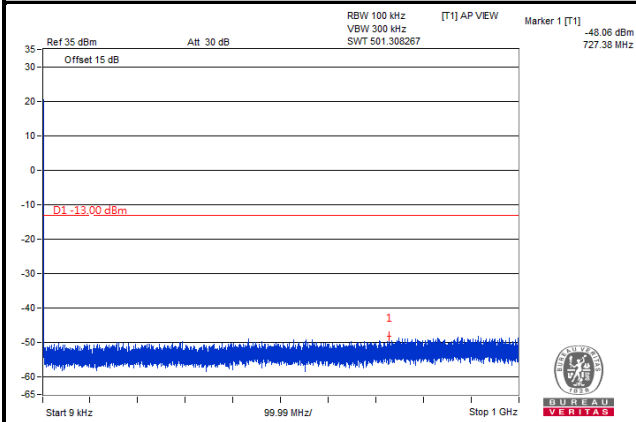
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

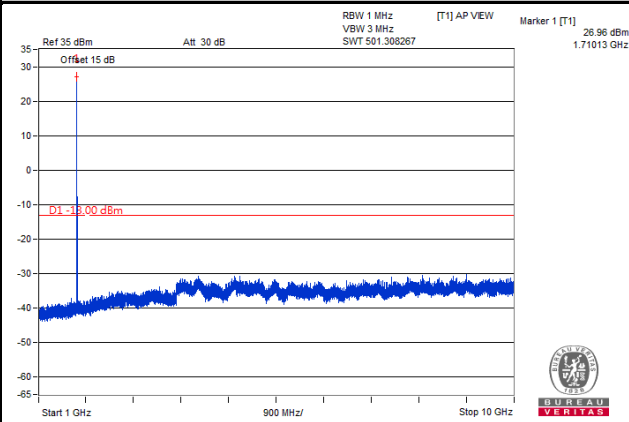
Channel Bandwidth: 3 MHz

Channel 131987

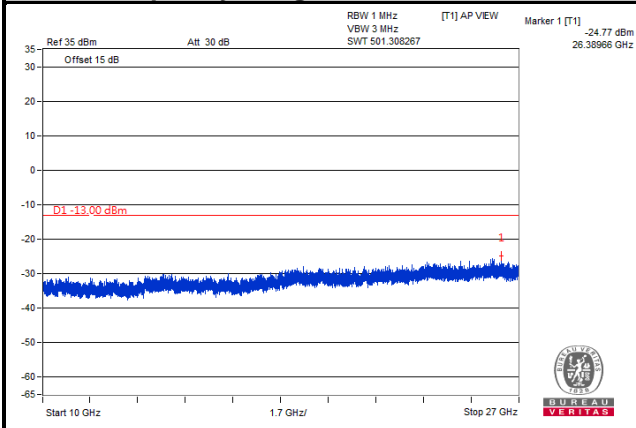
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



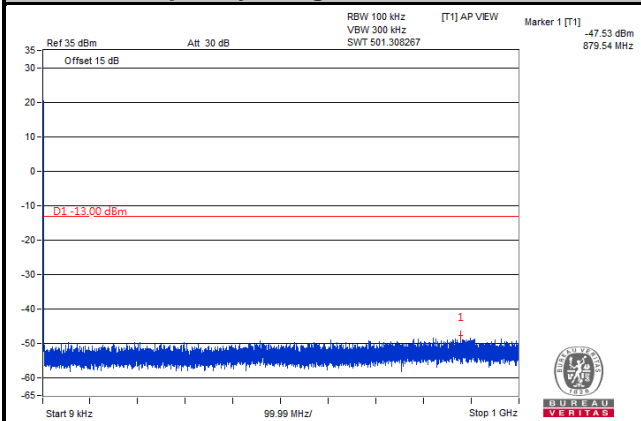
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

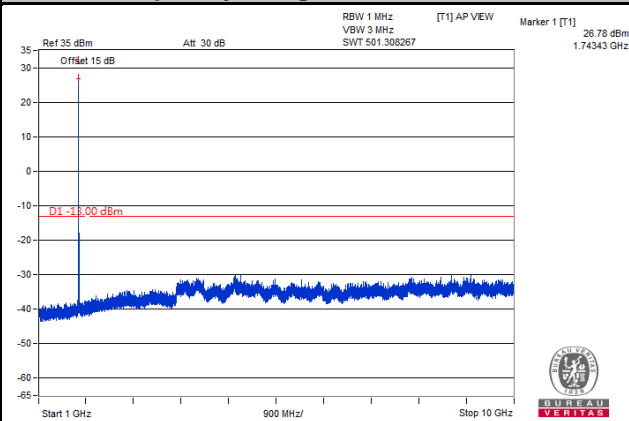
Channel Bandwidth: 3 MHz

Channel 132322

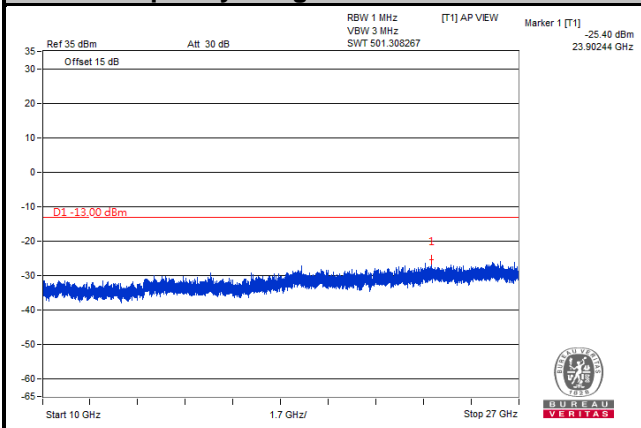
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



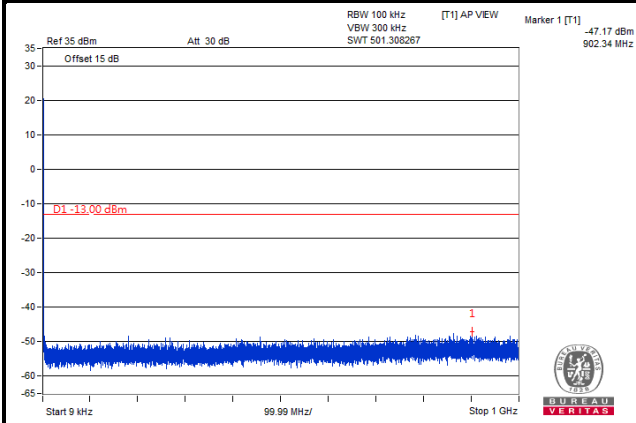
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

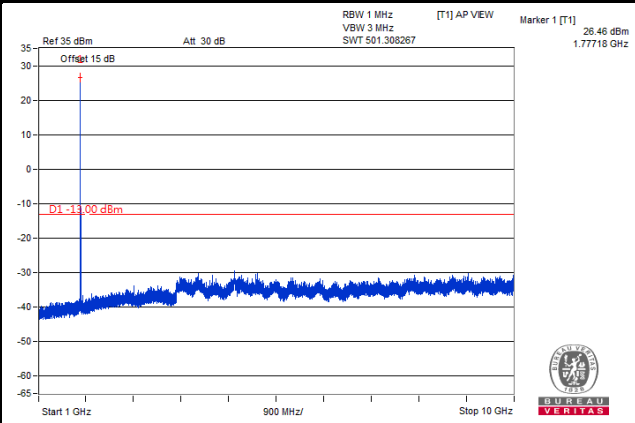
Channel Bandwidth: 3 MHz

Channel 132657

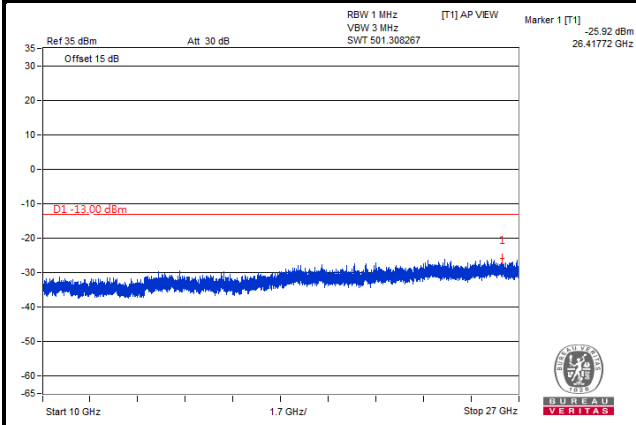
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



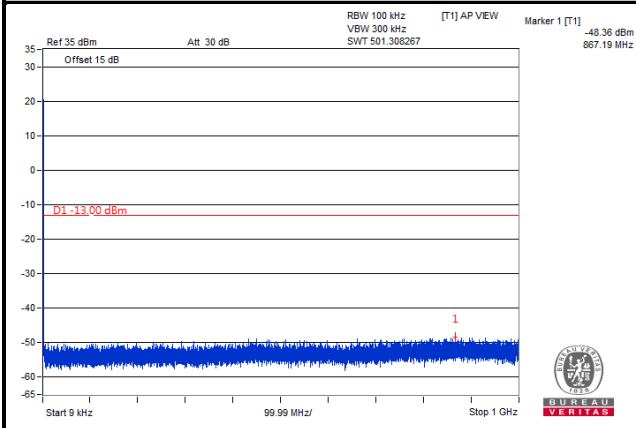
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

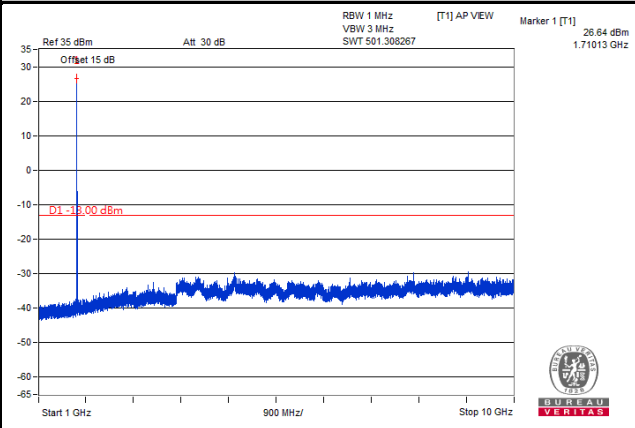
Channel Bandwidth: 5 MHz

Channel 131997

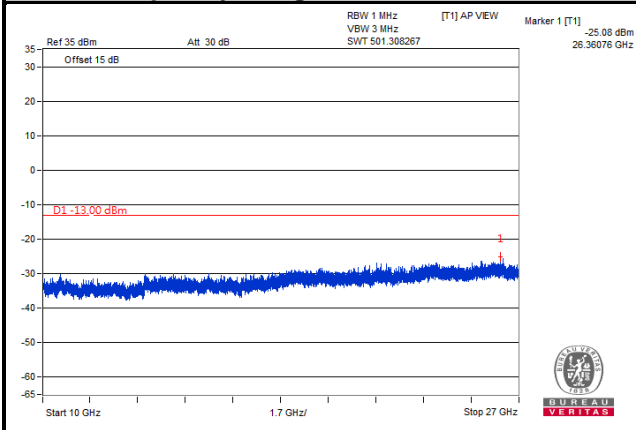
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



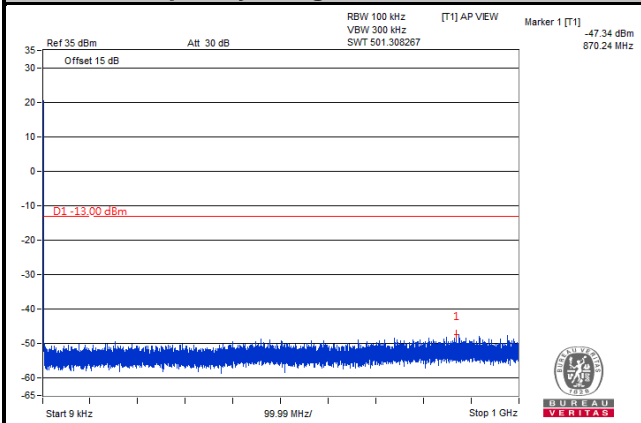
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

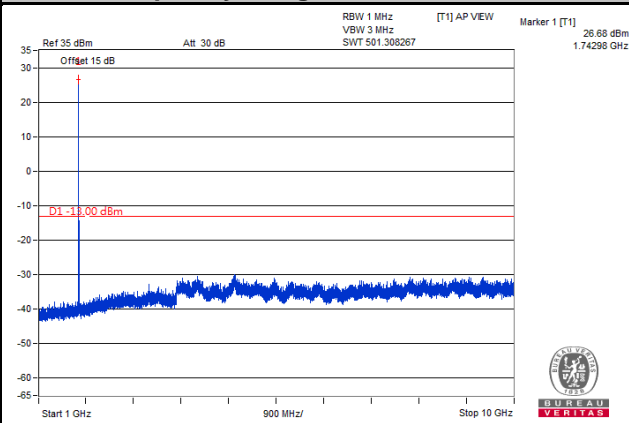
Channel Bandwidth: 5 MHz

Channel 132322

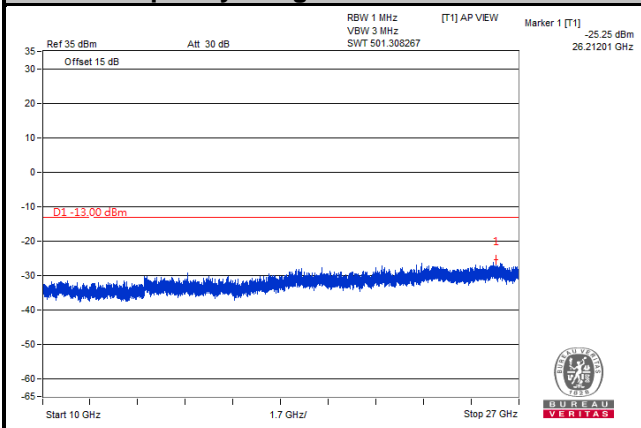
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



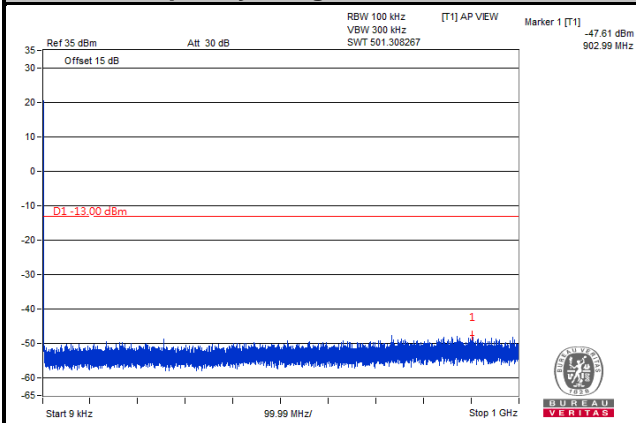
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

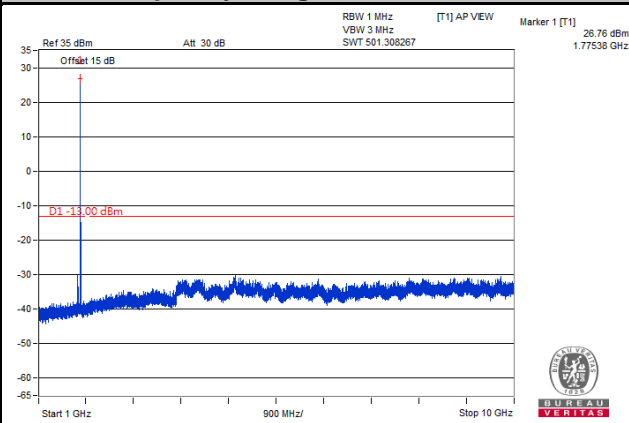
Channel Bandwidth: 5 MHz

Channel 132647

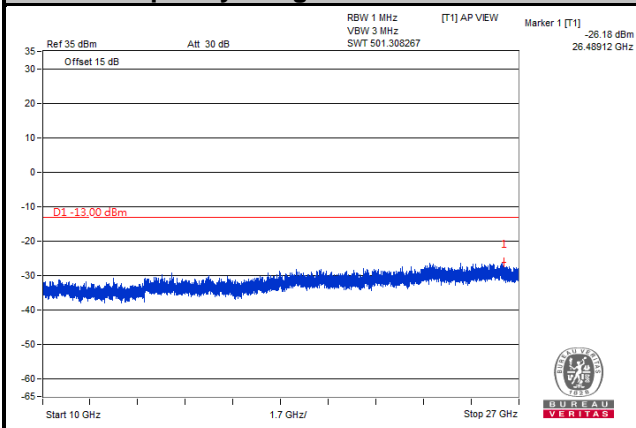
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



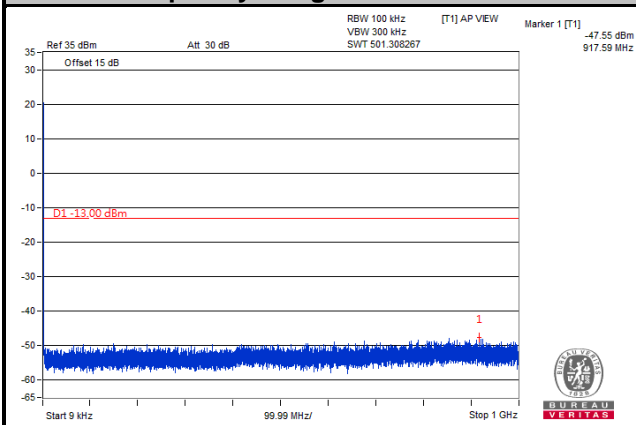
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

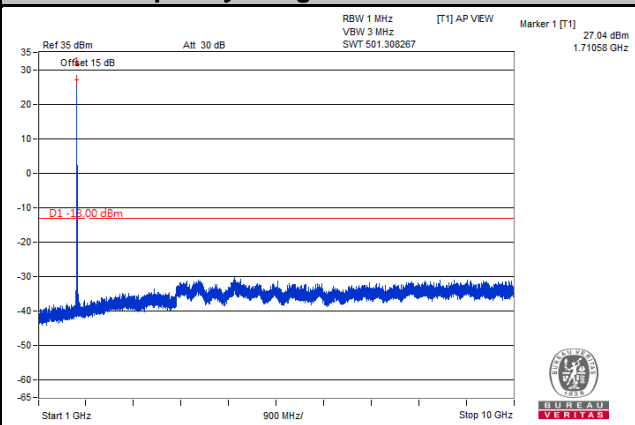
Channel Bandwidth: 10 MHz

Channel 132022

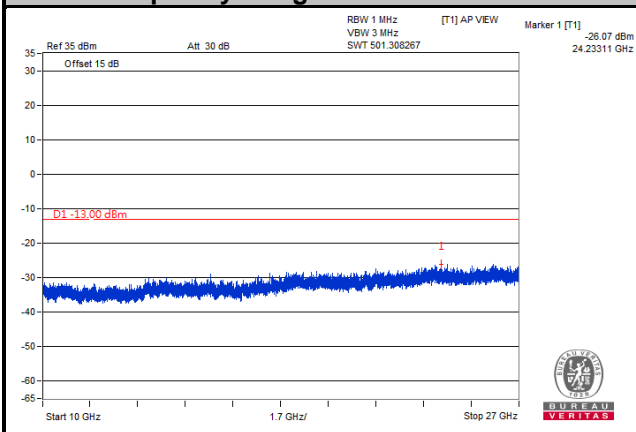
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



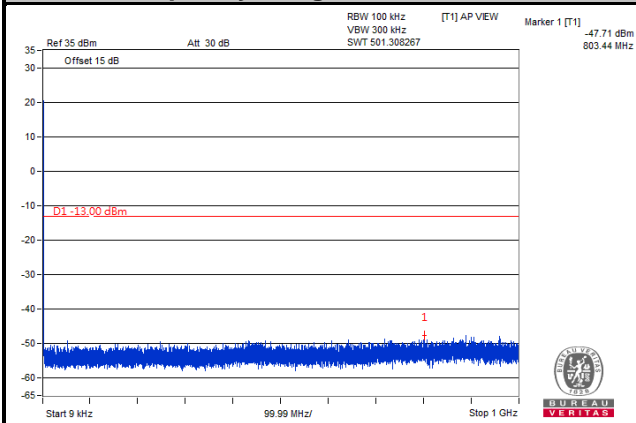
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

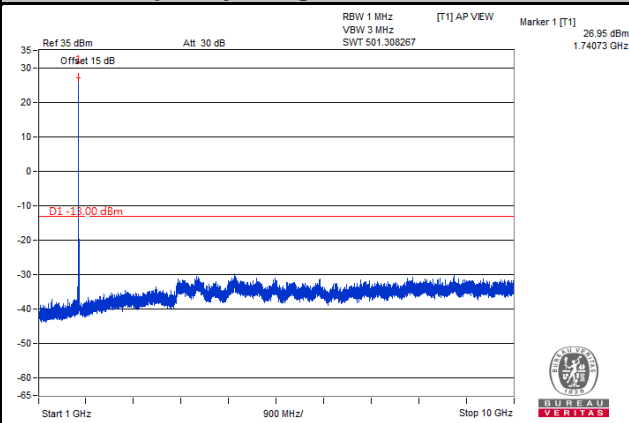
Channel Bandwidth: 10 MHz

Channel 132322

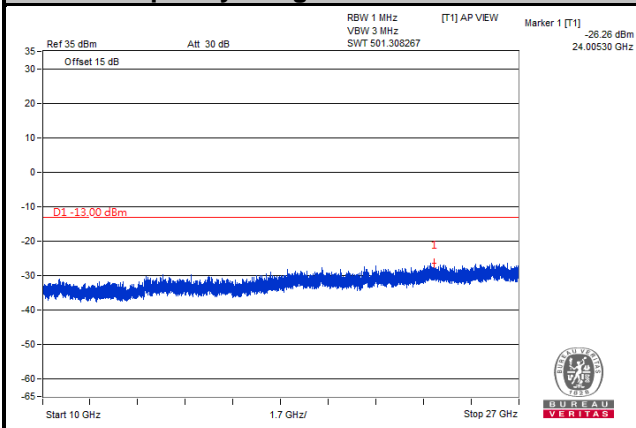
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



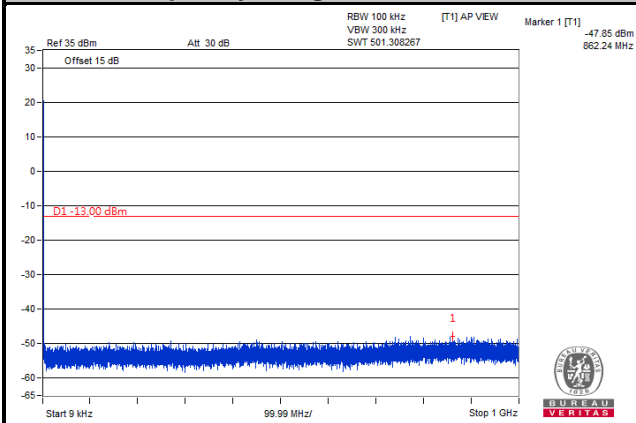
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

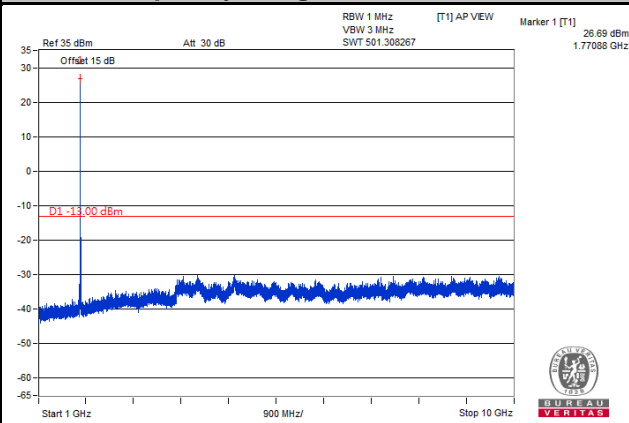
Channel Bandwidth: 10 MHz

Channel 132622

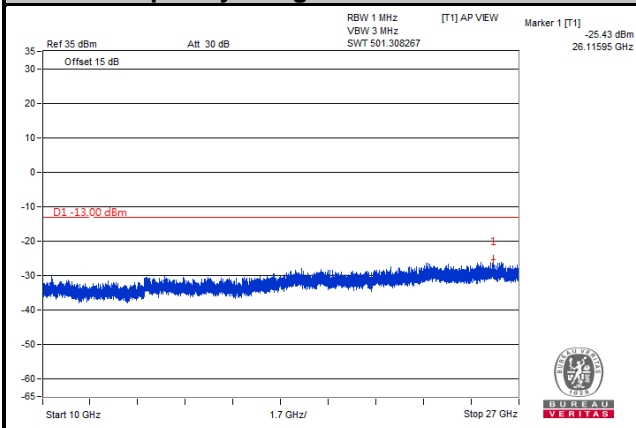
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



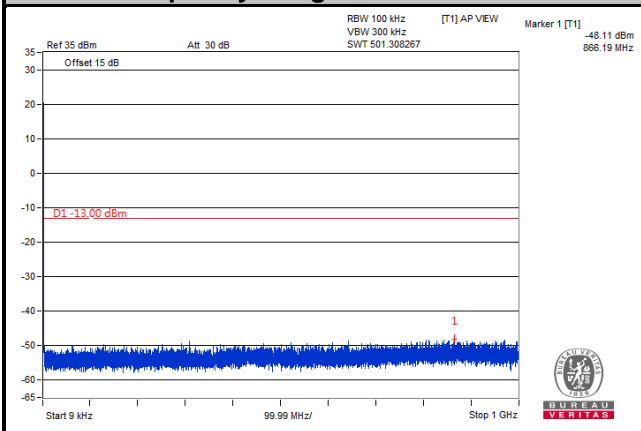
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

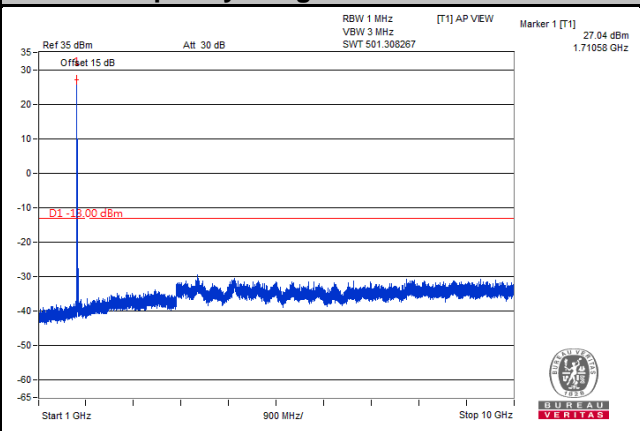
Channel Bandwidth: 15 MHz

Channel 132047

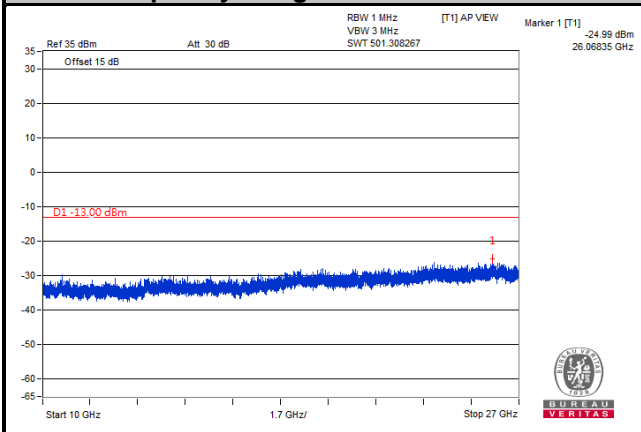
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



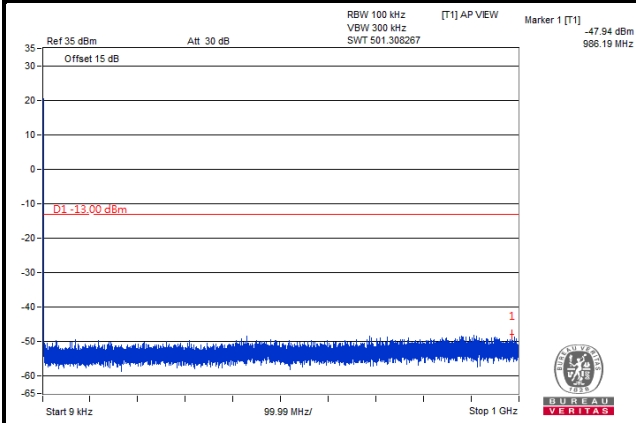
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

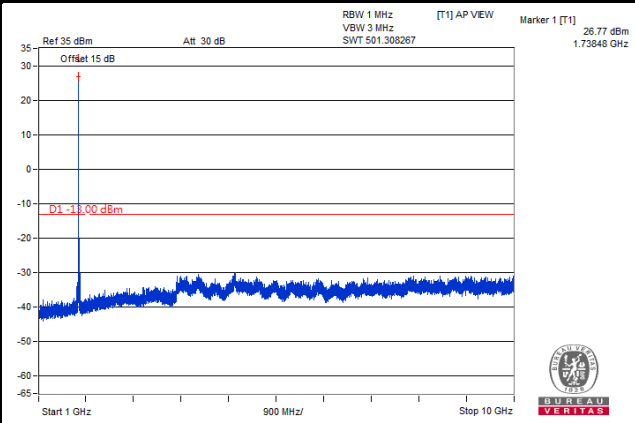
Channel Bandwidth: 15 MHz

Channel 132322

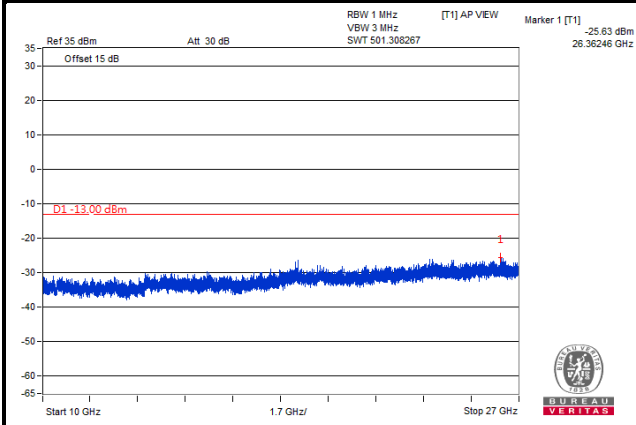
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



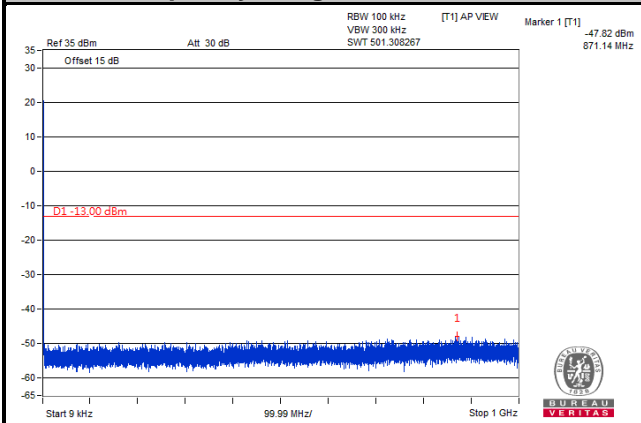
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

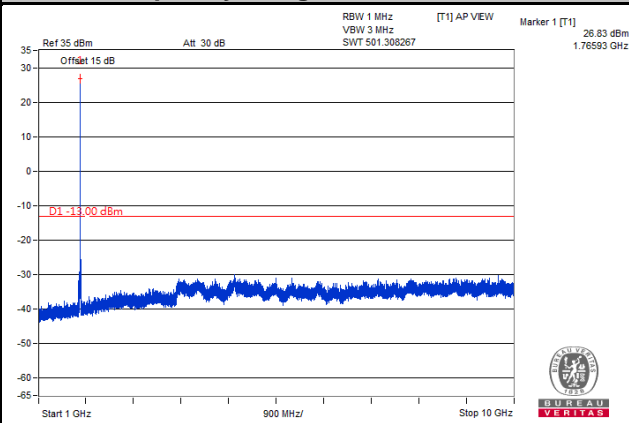
Channel Bandwidth: 15 MHz

Channel 132597

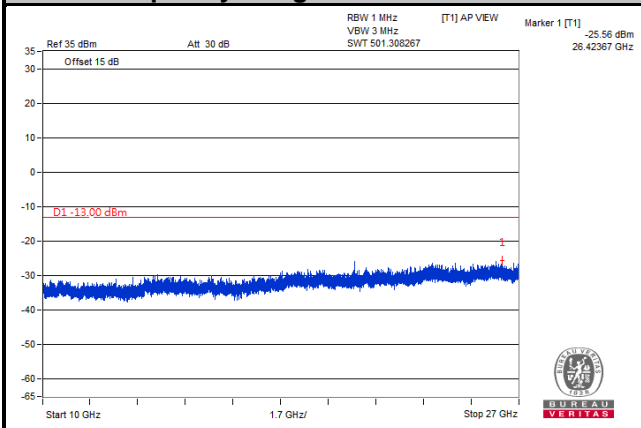
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



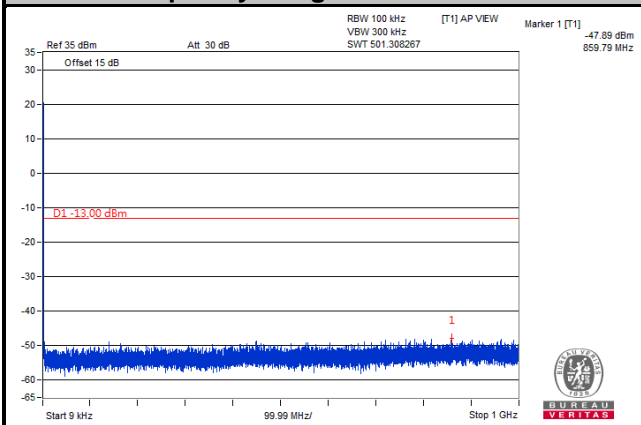
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 66

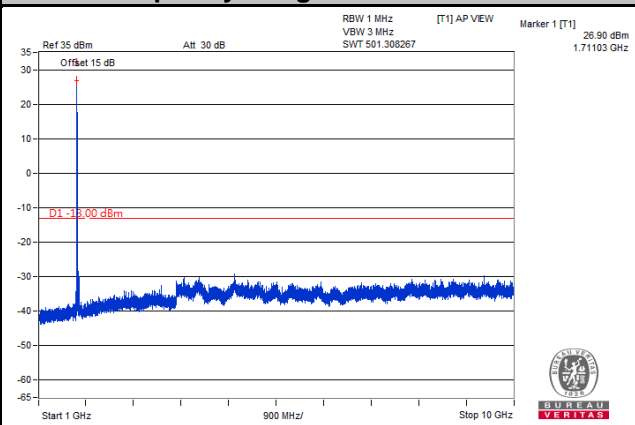
Channel Bandwidth: 20 MHz

Channel 132072

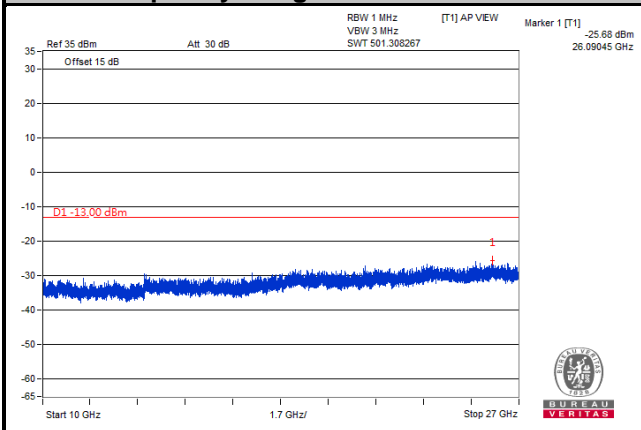
Frequency Range: 9 kHz ~ 1 GHz



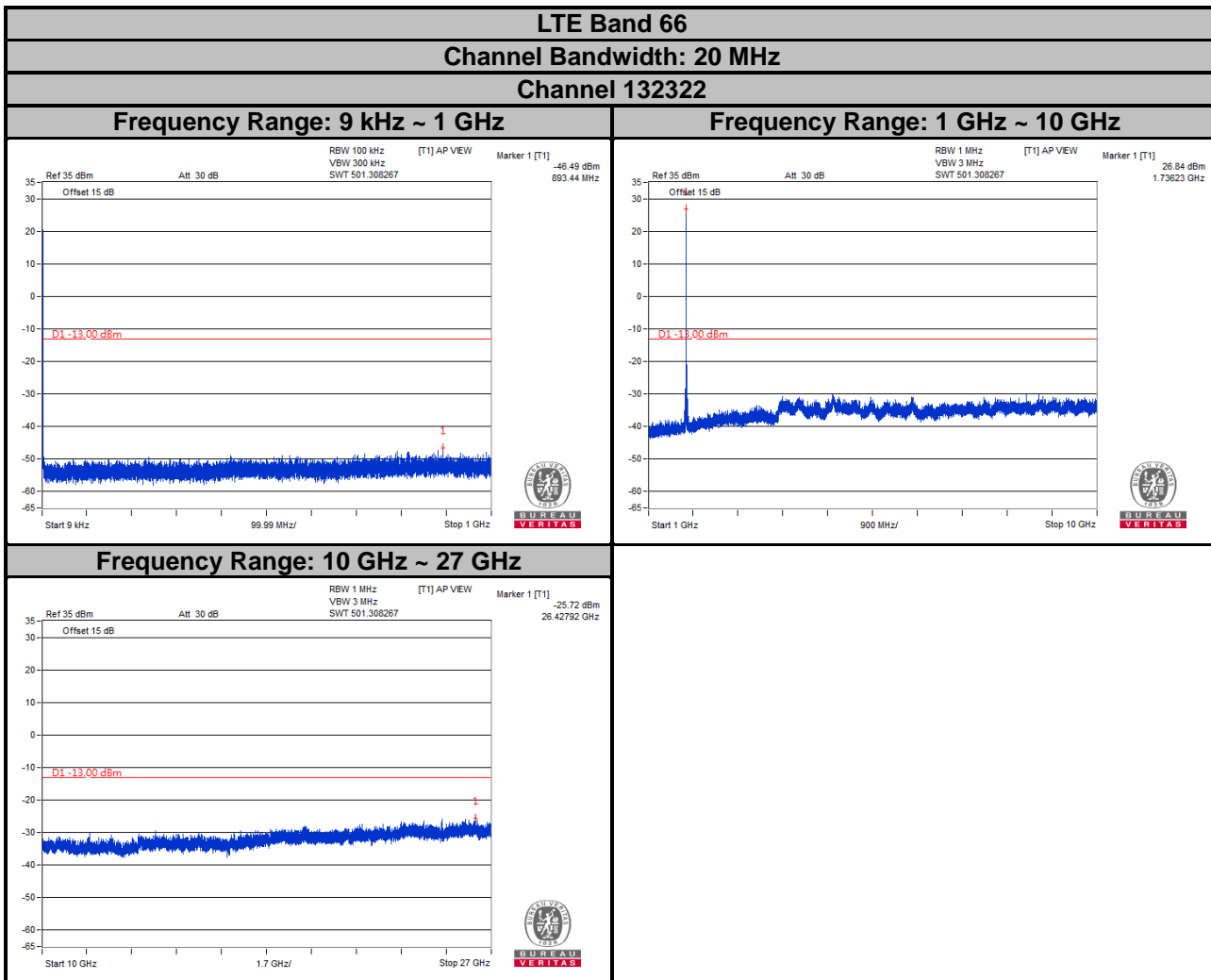
Frequency Range: 1 GHz ~ 10 GHz



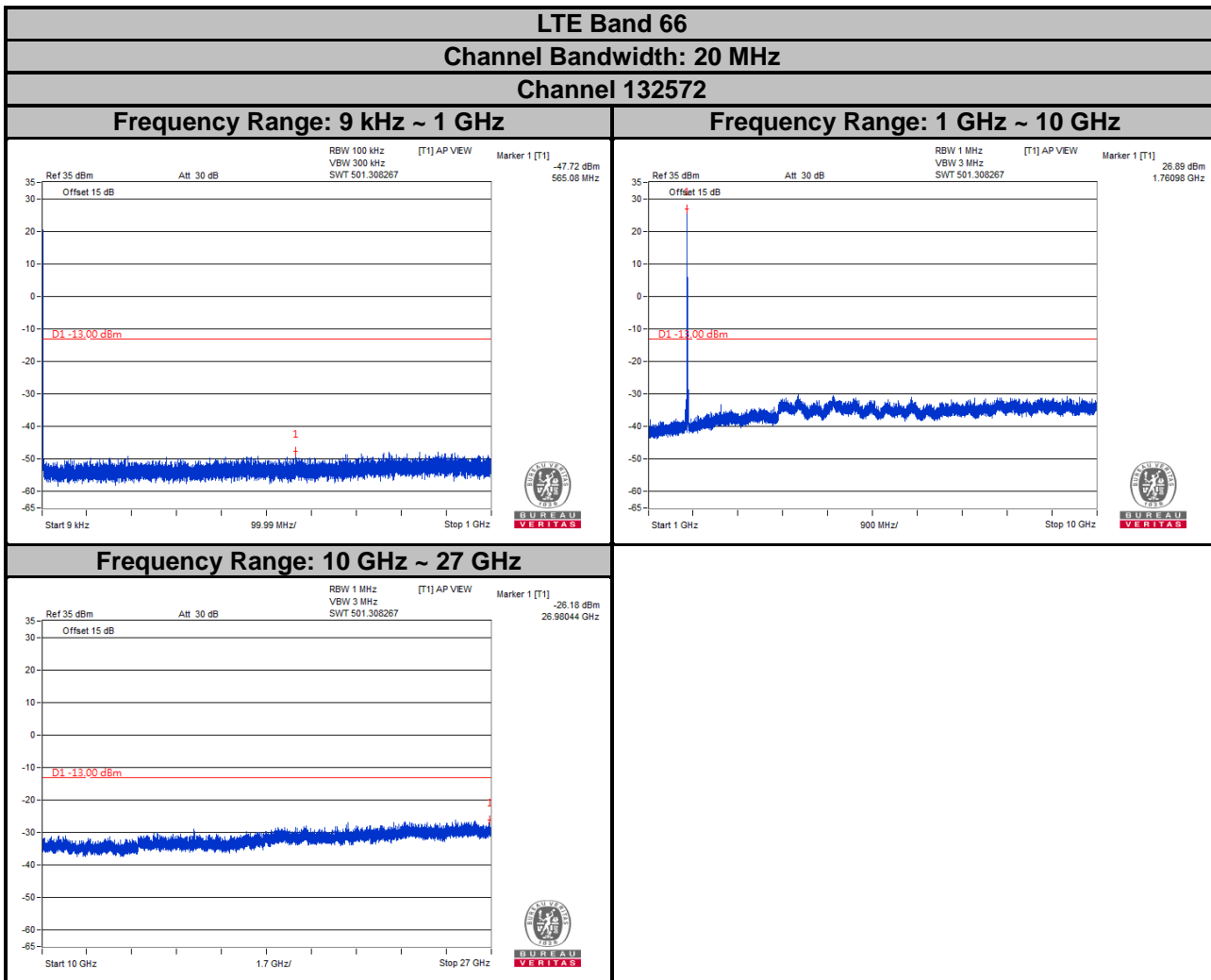
Frequency Range: 10 GHz ~ 27 GHz



Note: The signal over the limit in 9 kHz is from spectrum analyzer.



Note: The signal over the limit in 9 kHz is from spectrum analyzer.



Note: The signal over the limit in 9 kHz is from spectrum analyzer.

4.8 Radiated Emission Measurement

4.8.1 Limits of Radiated Emission Measurement

- a. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The limit of emission is equal to -13 dBm.
- b. For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz. The limit of emissions is equal to -40 dBm.

4.8.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- c. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

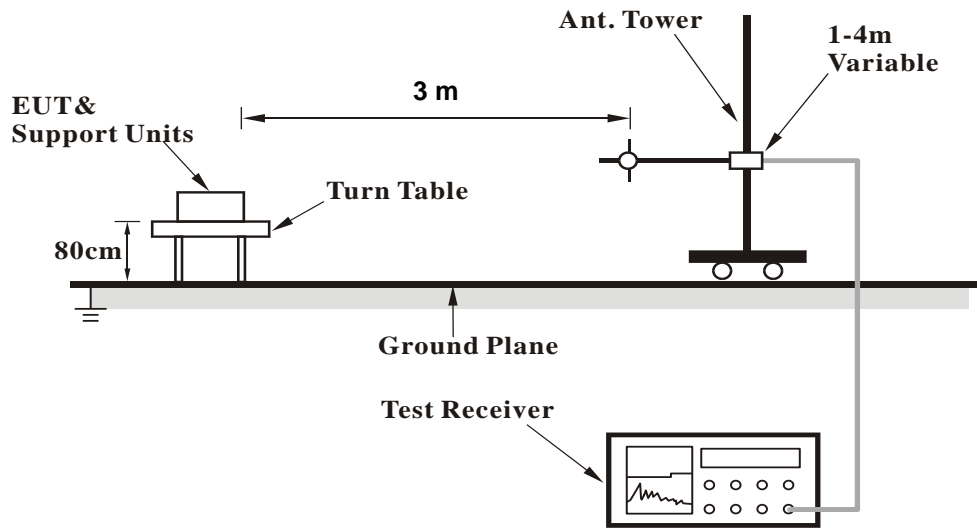
Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.8.3 Deviation from Test Standard

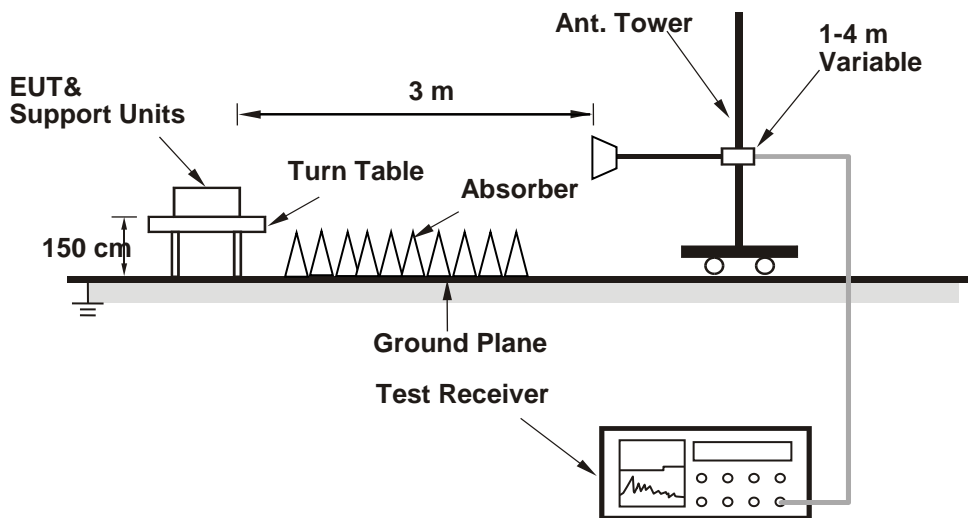
No deviation.

4.8.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.8.5 Test Results

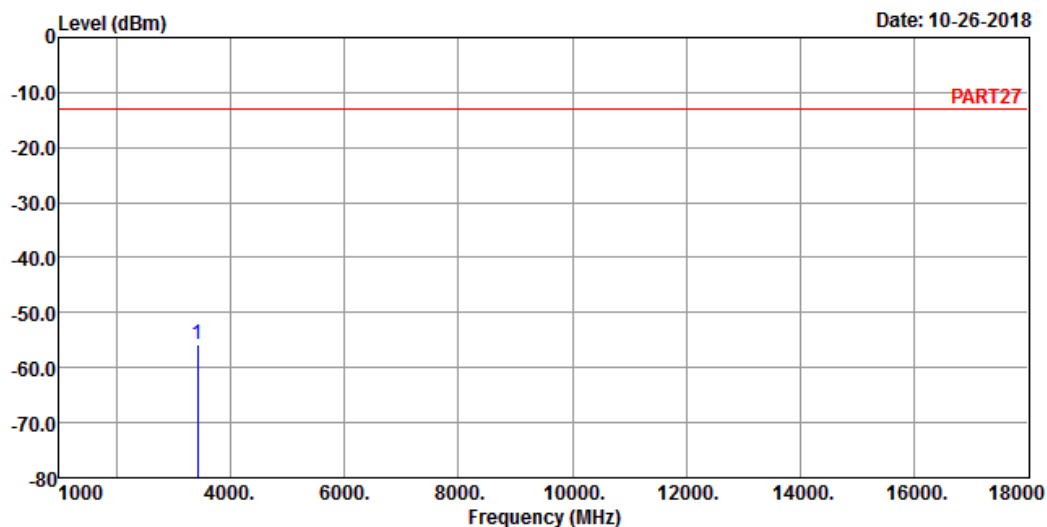
WCDMA:
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remark : WCDMA Band 4 Link_L-CH
Tested by: Thomas Wei

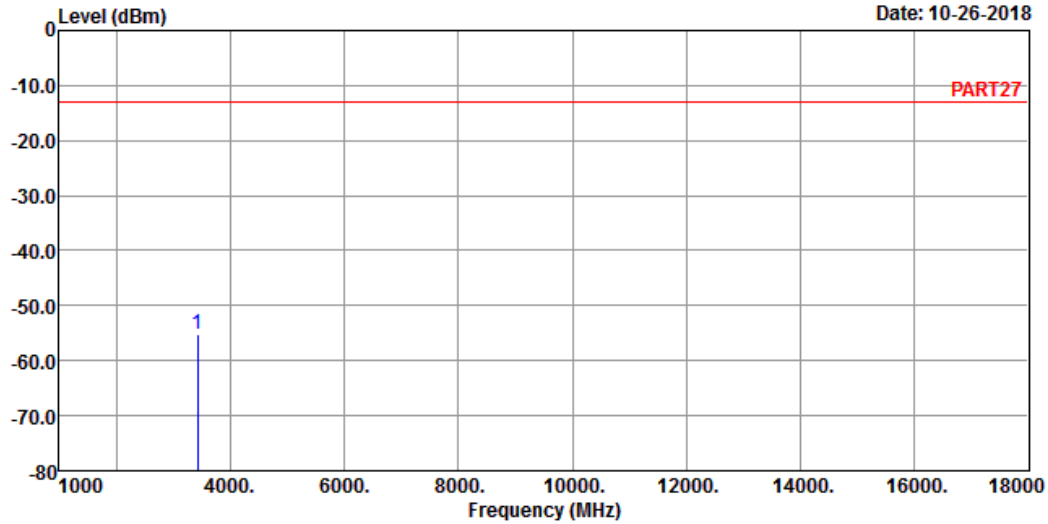
| | Read | Limit | Over | | | |
|--------------|--------|--------|--------|--------|--------|--------|
| Freq | Level | Level | Line | Limit | Factor | Remark |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3424.80 | -55.83 | -47.49 | -13.00 | -42.83 | -8.34 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remark : WCDMA Band 4 Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3424.80 | -55.13 | -46.79 | -13.00 | -42.13 | -8.34 | Peak |

Middle Channel

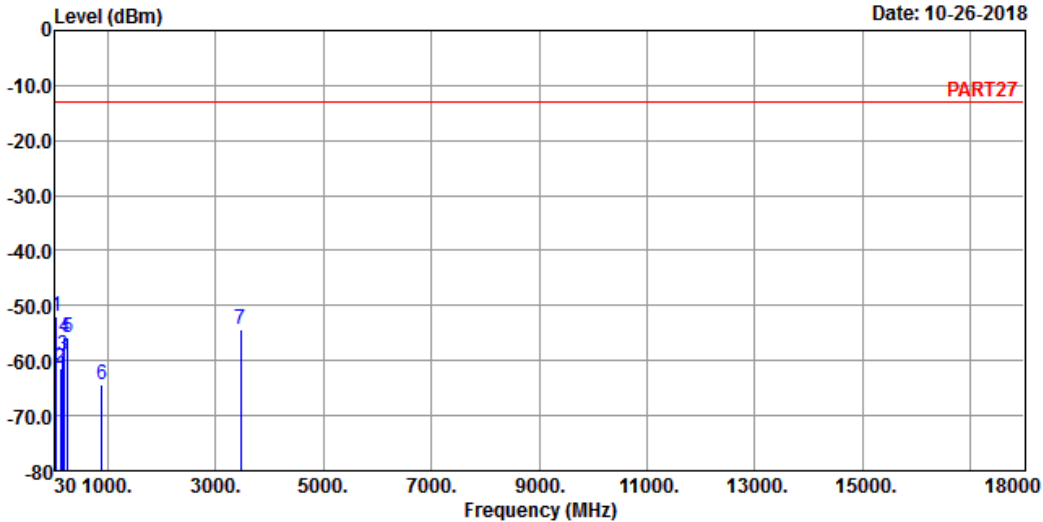


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 10-26-2018



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remark : WCDMA Band 4 Link_M-CH
 Tested by: Thomas Wei

| | Freq | Level | Read Level | Limit | Over | | Remark |
|---|------|---------|------------|--------|--------|--------|------------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | pp | 45.52 | -51.87 | -49.37 | -13.00 | -38.87 | -2.50 Peak |
| 2 | | 129.91 | -61.42 | -52.73 | -13.00 | -48.42 | -8.69 Peak |
| 3 | | 170.65 | -58.90 | -53.20 | -13.00 | -45.90 | -5.70 Peak |
| 4 | | 201.69 | -55.77 | -47.83 | -13.00 | -42.77 | -7.94 Peak |
| 5 | | 264.74 | -55.80 | -49.51 | -13.00 | -42.80 | -6.29 Peak |
| 6 | | 888.45 | -64.22 | -64.73 | -13.00 | -51.22 | 0.51 Peak |
| 7 | | 3465.20 | -54.29 | -46.41 | -13.00 | -41.29 | -7.88 Peak |

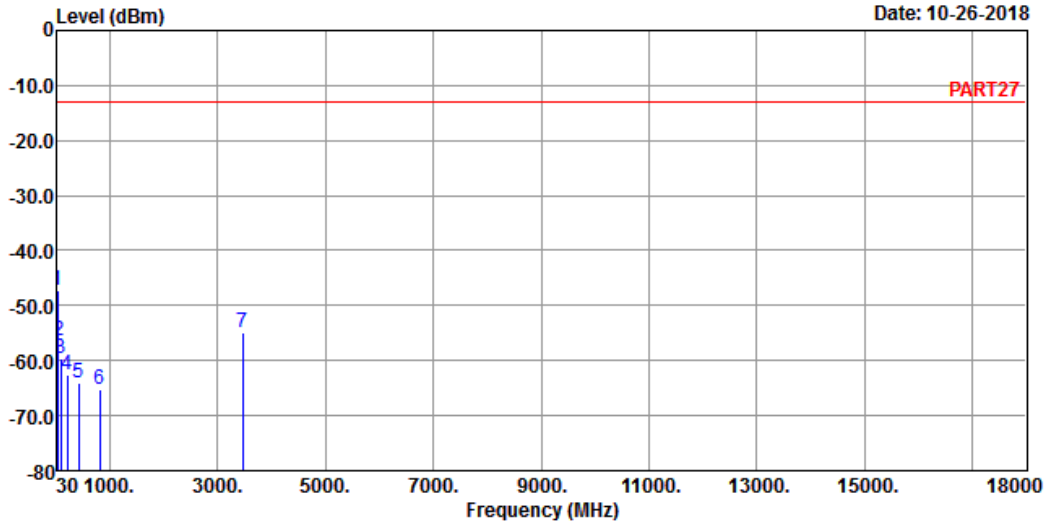


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 10-26-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remark : WCDMA Band 4 Link_M-CH
 Tested by: Thomas Wei

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|---------|--------|------------|------------|------------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp | 32.91 | -47.22 | -46.13 | -13.00 | -34.22 | -1.09 | Peak |
| 2 | 52.31 | -56.28 | -50.74 | -13.00 | -43.28 | -5.54 | Peak |
| 3 | 92.08 | -59.72 | -48.72 | -13.00 | -46.72 | -11.00 | Peak |
| 4 | 218.18 | -62.66 | -55.38 | -13.00 | -49.66 | -7.28 | Peak |
| 5 | 431.58 | -64.05 | -58.35 | -13.00 | -51.05 | -5.70 | Peak |
| 6 | 816.67 | -65.29 | -65.88 | -13.00 | -52.29 | 0.59 | Peak |
| 7 | 3465.20 | -54.92 | -47.04 | -13.00 | -41.92 | -7.88 | Peak |

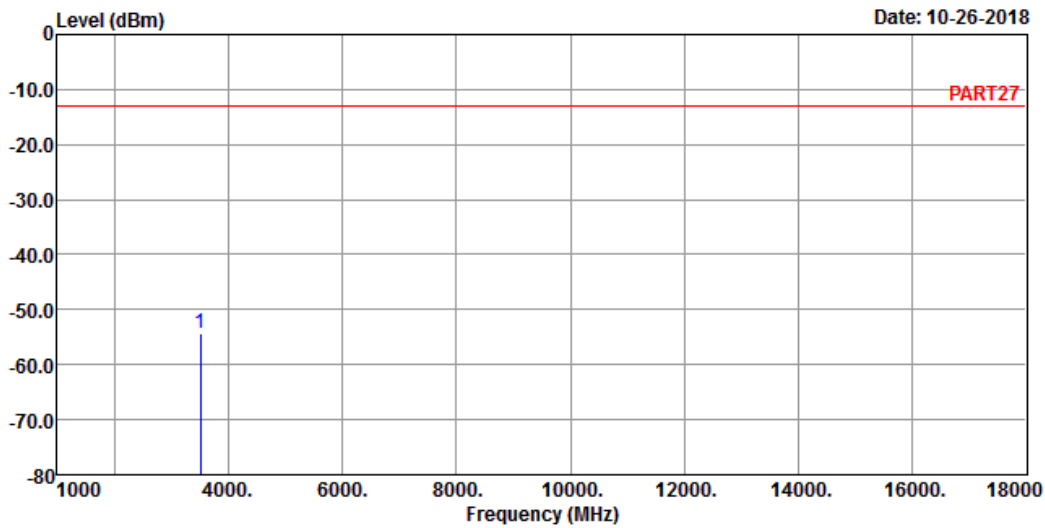
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remark : WCDMA Band 4 Link_H-CH
 Tested by: Thomas Wei

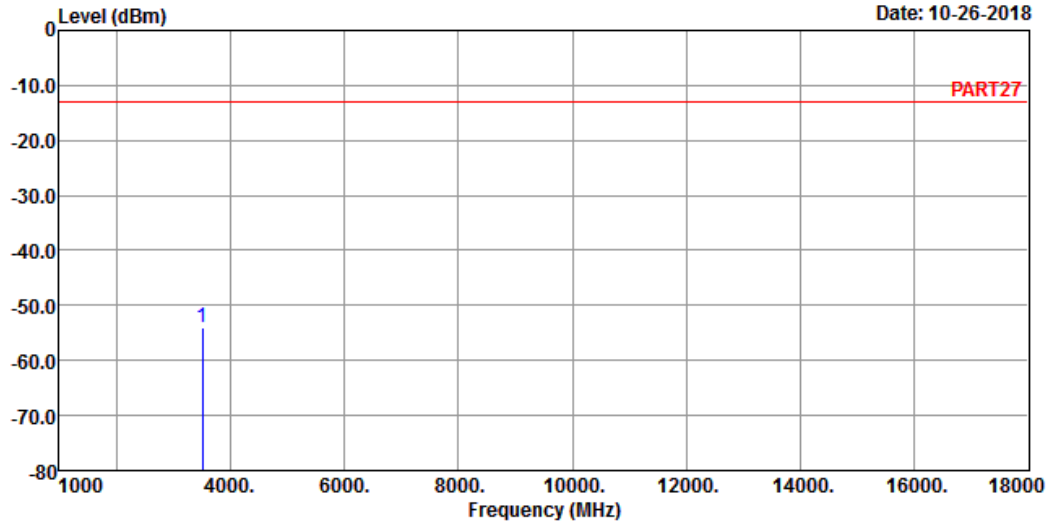
| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3505.20 | -54.31 | -46.86 | -13.00 | -41.31 | -7.45 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remark : WCDMA Band 4 Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3505.20 | -53.89 | -46.44 | -13.00 | -40.89 | -7.45 | Peak |

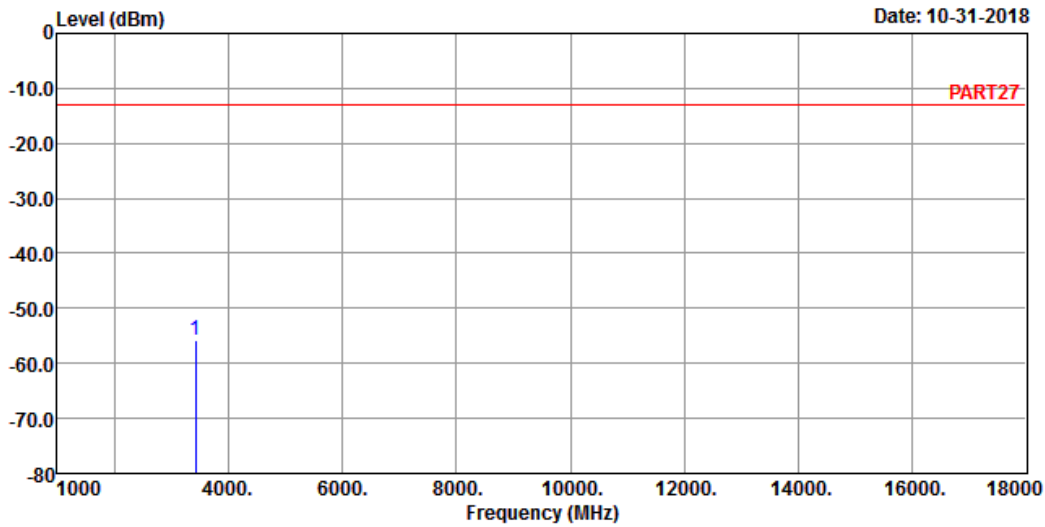
LTE Band 4
 Channel Bandwidth: 1.4 MHz / QPSK
 Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 4 QPSK_1.4M Link_L-CH
 Tested by: Thomas Wei

| Read | Limit | Over | | | | |
|--------------|--------|--------|--------|--------|--------|--------|
| Freq | Level | Level | Line | Limit | Factor | Remark |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3421.40 | -55.72 | -47.38 | -13.00 | -42.72 | -8.34 | Peak |

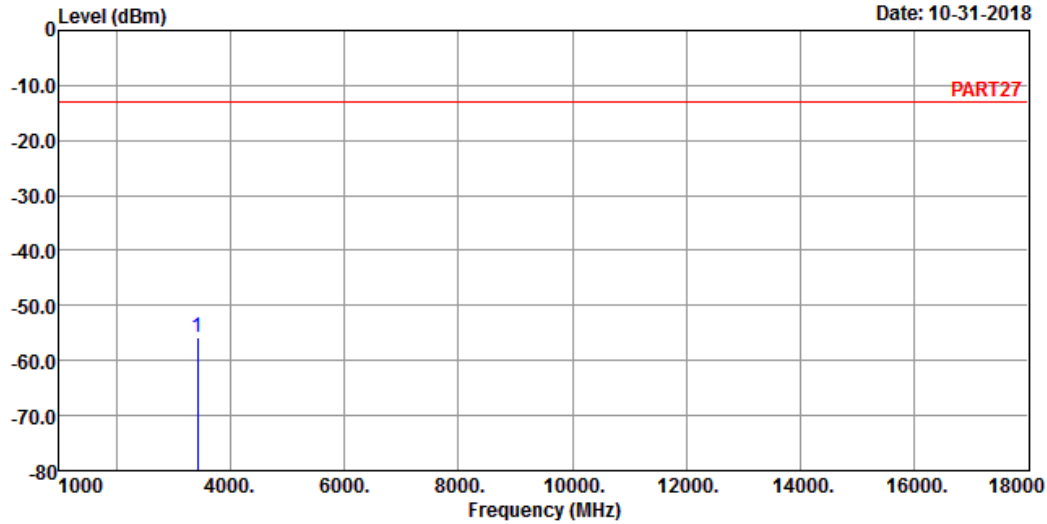


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 4 QPSK_1.4M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3421.40 | -55.67 | -47.33 | -13.00 | -42.67 | -8.34 | Peak |

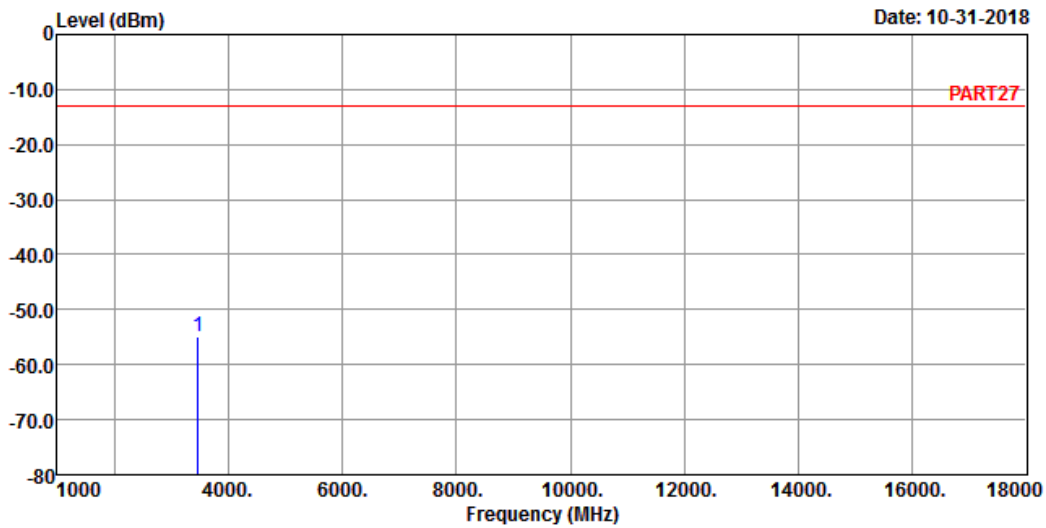
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 4 QPSK_1.4M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

1 pp 3465.00 -54.91 -47.03 -13.00 -41.91 -7.88 Peak

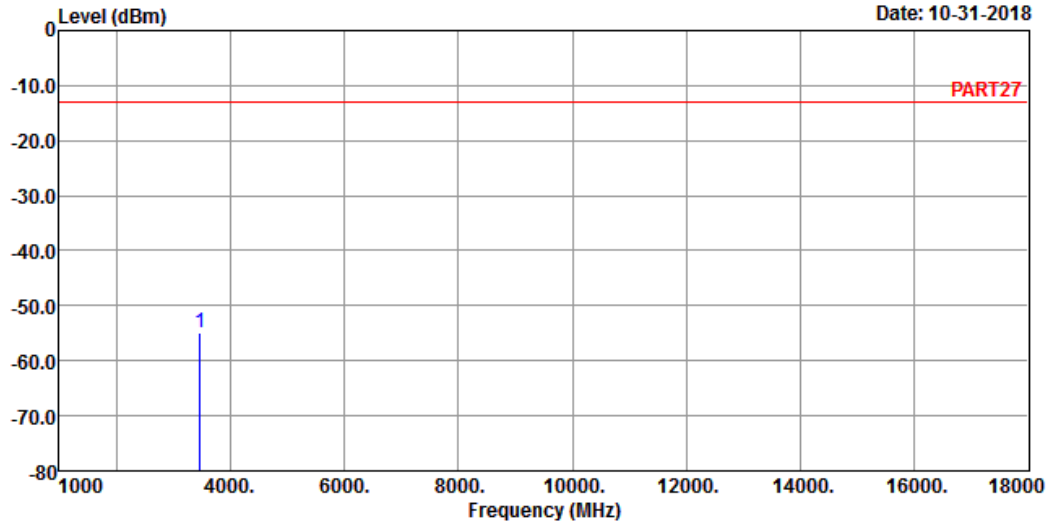


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 4 QPSK_1.4M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3465.00 | -55.01 | -47.13 | -13.00 | -42.01 | -7.88 | Peak |

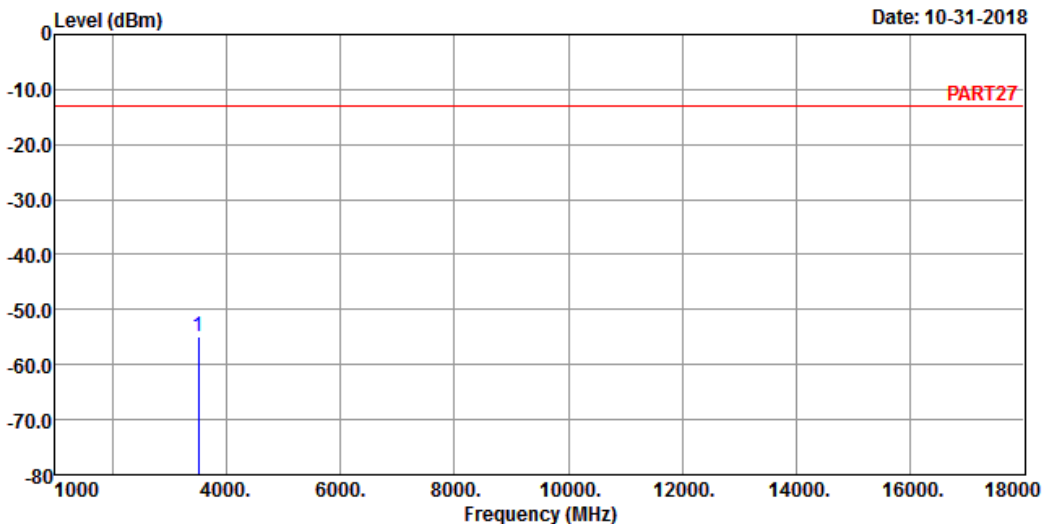
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 4 QPSK_1.4M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

1 pp 3508.60 -54.90 -47.45 -13.00 -41.90 -7.45 Peak

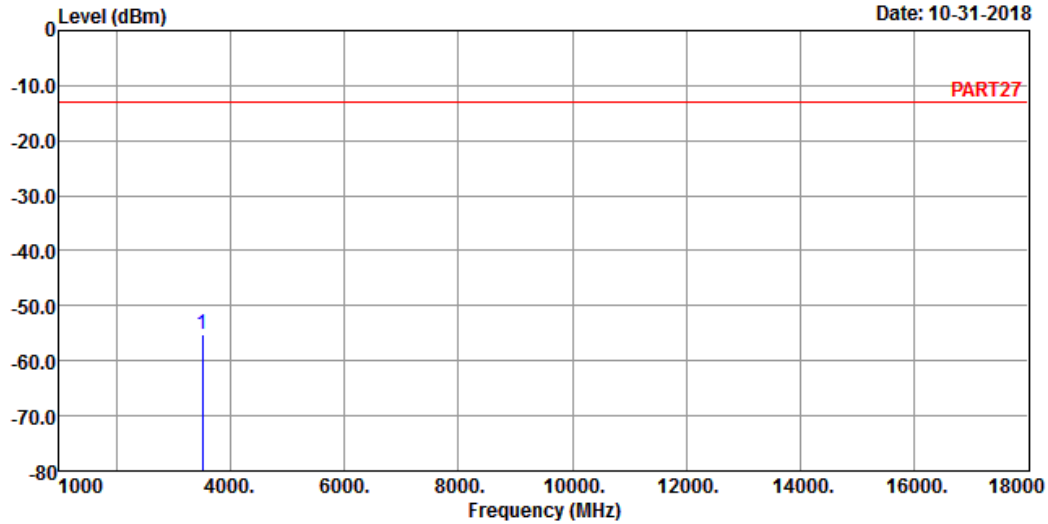


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 4 QPSK_1.4M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3508.60 | -55.32 | -47.87 | -13.00 | -42.32 | -7.45 | Peak |

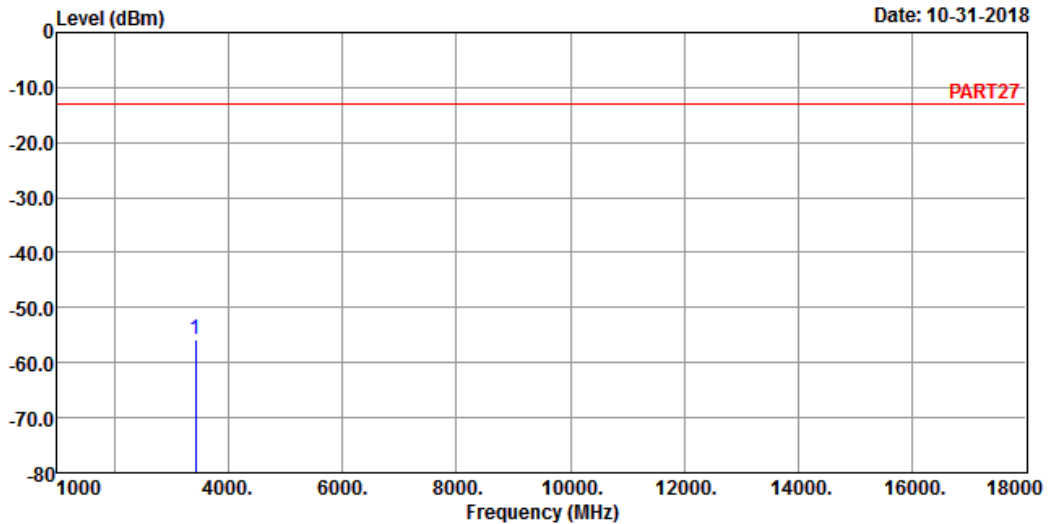
Channel Bandwidth: 5 MHz / QPSK
 Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 4 QPSK_5M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

1 pp 3425.00 -55.65 -47.31 -13.00 -42.65 -8.34 Peak

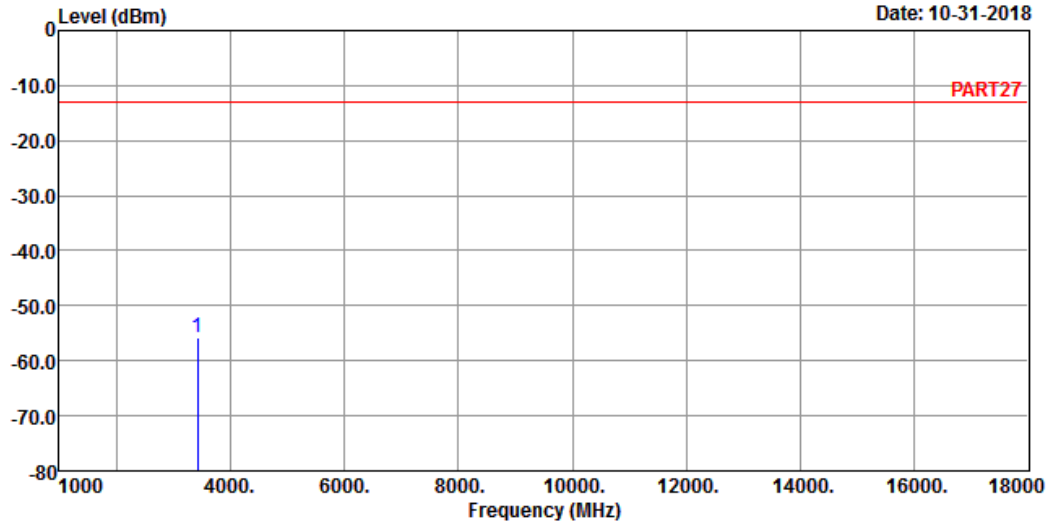


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 4 QPSK_5M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3425.00 | -55.70 | -47.36 | -13.00 | -42.70 | -8.34 | Peak |

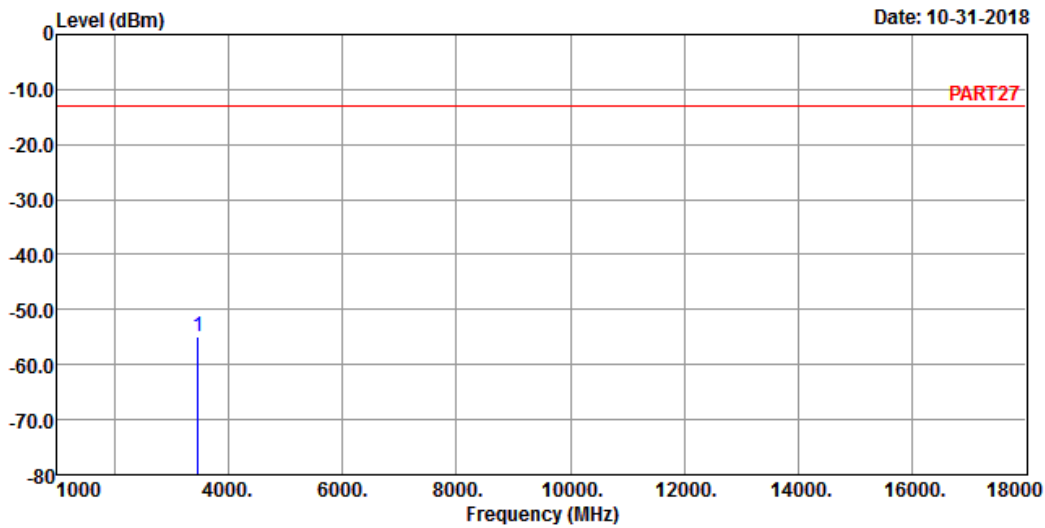
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 4 QPSK_5M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

1 pp 3465.00 -54.79 -46.91 -13.00 -41.79 -7.88 Peak

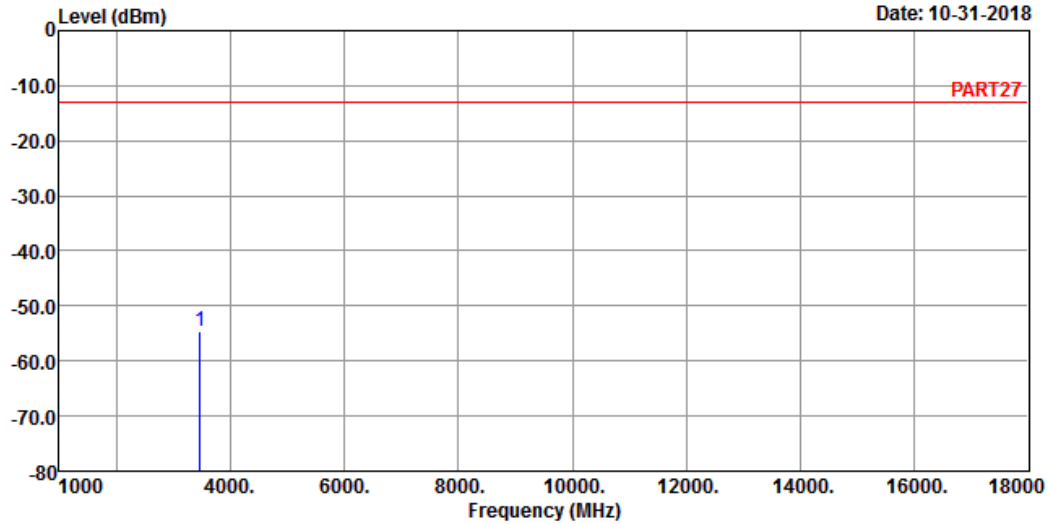


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 4 QPSK_5M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3465.00 | -54.63 | -46.75 | -13.00 | -41.63 | -7.88 | Peak |

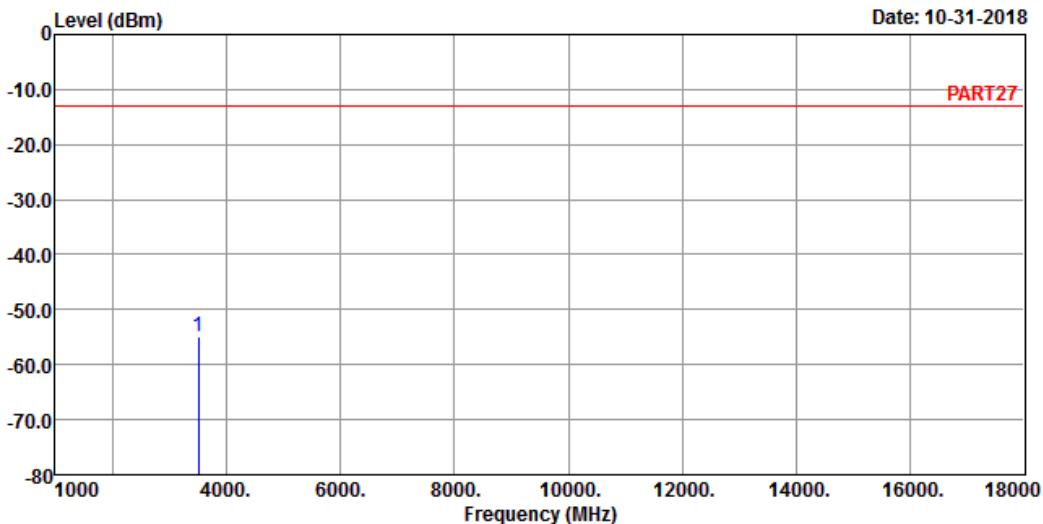
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 4 QPSK_5M Link_H-CH
 Tested by: Thomas Wei

| | Read | Limit | Over | | |
|--------------|--------|--------|--------|--------|---------------|
| Freq | Level | Level | Line | Limit | Factor Remark |
| MHz | dBm | dBm | dBm | dB | dB |
| 1 pp 3505.00 | -54.90 | -47.45 | -13.00 | -41.90 | -7.45 Peak |

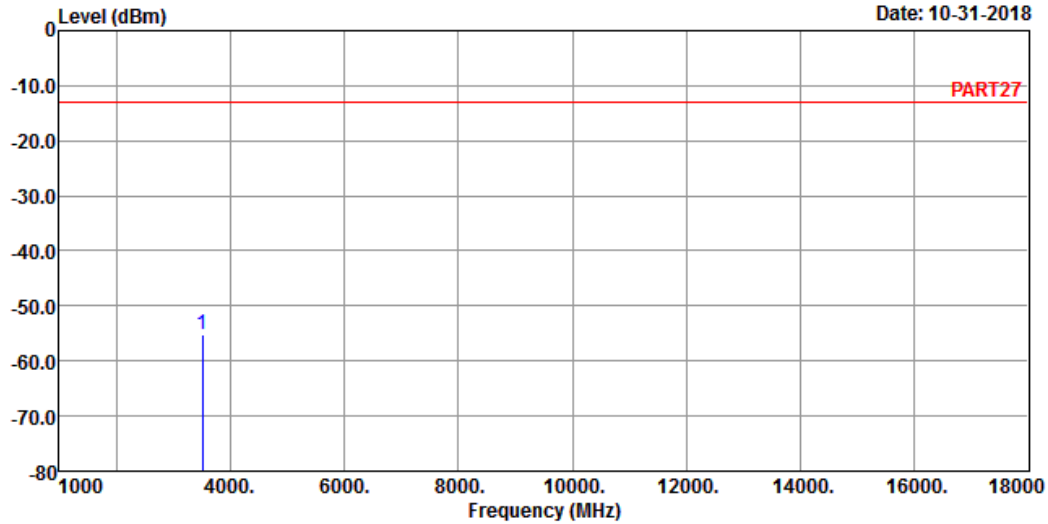


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 4 QPSK_5M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3505.00 | -55.24 | -47.79 | -13.00 | -42.24 | -7.45 | Peak |

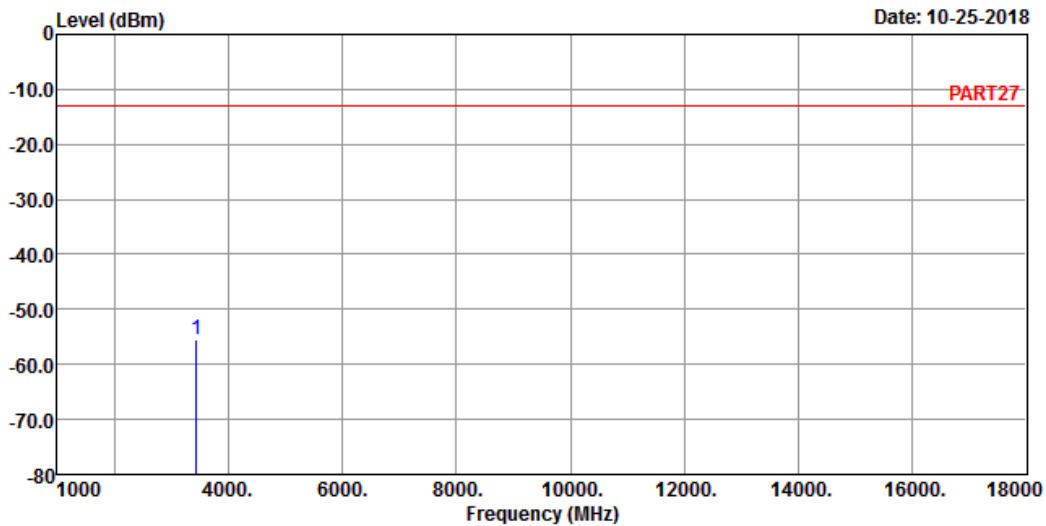
Channel Bandwidth: 20 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 4 QPSK_20M Link_L-CH
Tested by: Thomas Wei

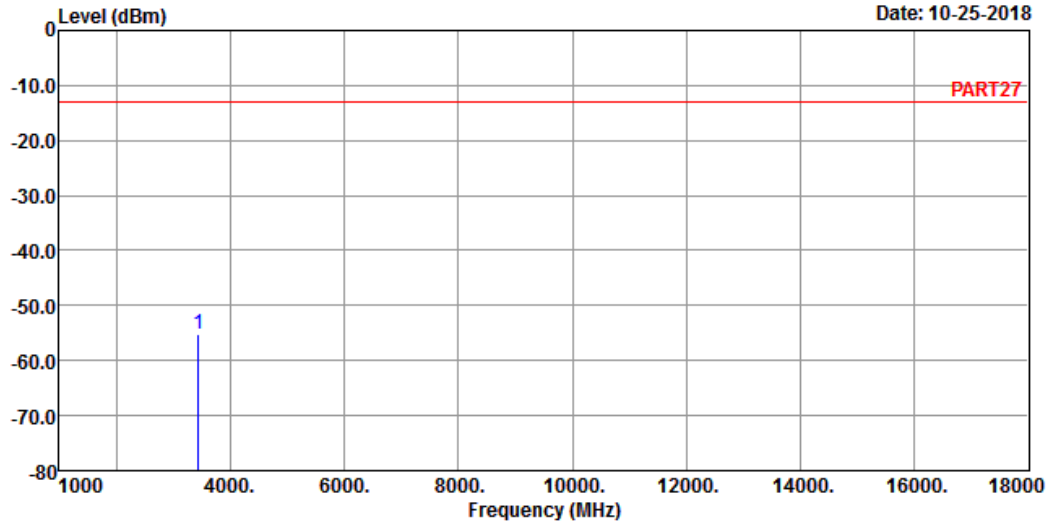
| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3440.00 | -55.56 | -47.34 | -13.00 | -42.56 | -8.22 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 4 QPSK_20M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3440.00 | -55.35 | -47.13 | -13.00 | -42.35 | -8.22 | Peak |

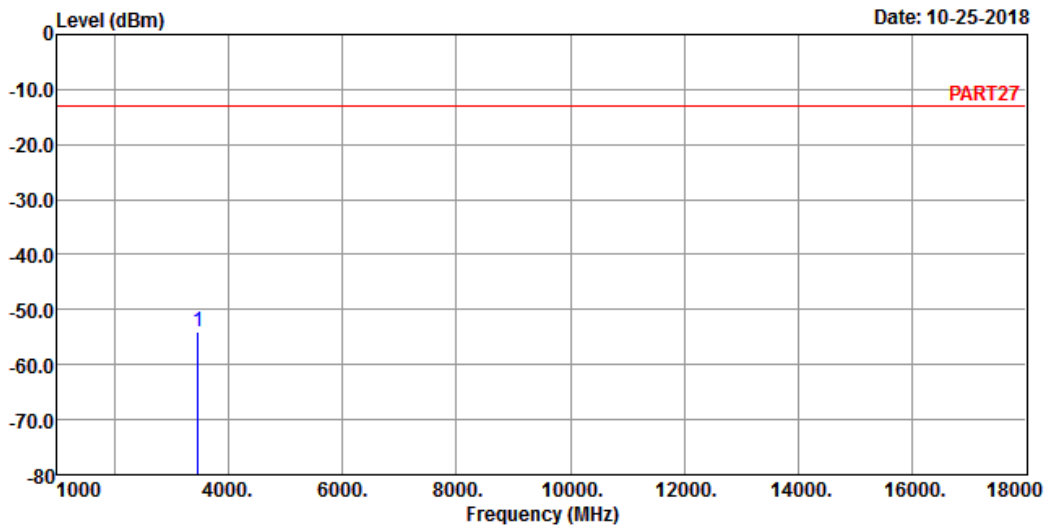
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 4 QPSK_20M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

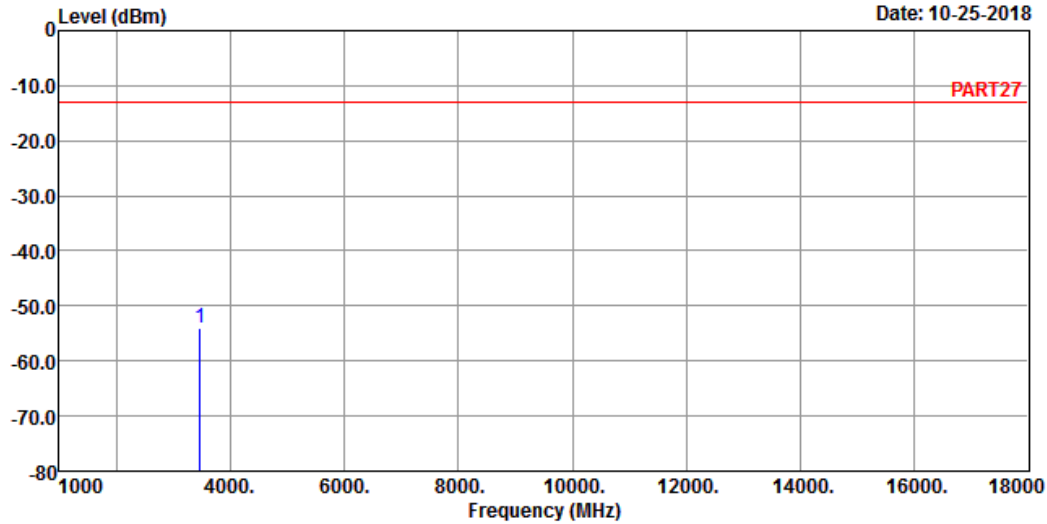
1 pp 3465.00 -54.10 -46.22 -13.00 -41.10 -7.88 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 4 QPSK_20M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3465.00 | -53.93 | -46.05 | -13.00 | -40.93 | -7.88 | Peak |

High Channel

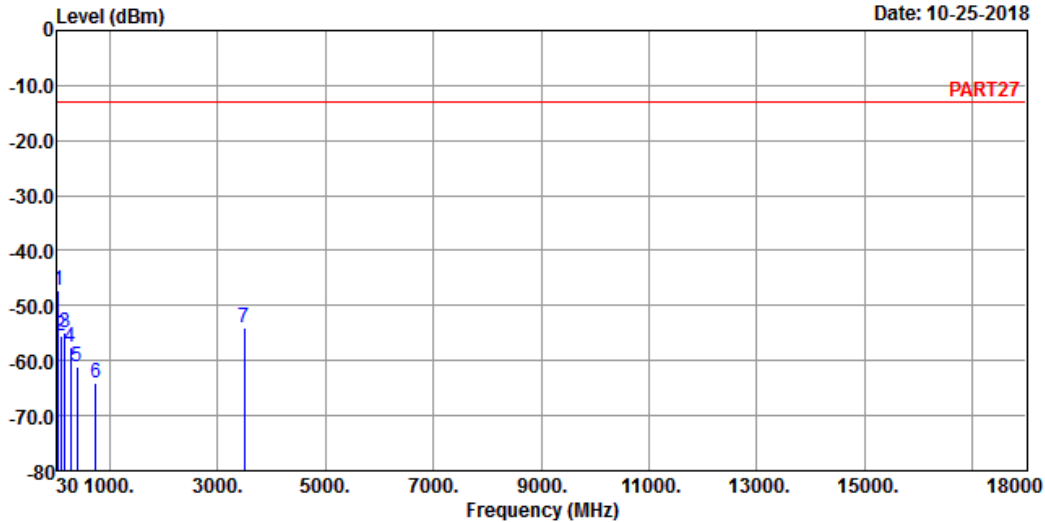


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 10-25-2018



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 4 QPSK_20M Link_H-CH
 Tested by: Thomas Wei

| | Read | Limit | Over | | | | |
|------|---------|--------|--------|--------|--------|--------|------|
| Freq | Level | Level | Line | Limit | Factor | Remark | |
| MHz | dBm | dBm | dBm | dB | dB | | |
| 1 pp | 43.58 | -47.32 | -45.85 | -13.00 | -34.32 | -1.47 | Peak |
| 2 | 92.08 | -55.45 | -44.45 | -13.00 | -42.45 | -11.00 | Peak |
| 3 | 162.89 | -54.96 | -49.91 | -13.00 | -41.96 | -5.05 | Peak |
| 4 | 273.47 | -57.56 | -51.09 | -13.00 | -44.56 | -6.47 | Peak |
| 5 | 398.60 | -61.17 | -55.22 | -13.00 | -48.17 | -5.95 | Peak |
| 6 | 742.95 | -64.04 | -64.79 | -13.00 | -51.04 | 0.75 | Peak |
| 7 | 3490.00 | -54.00 | -46.35 | -13.00 | -41.00 | -7.65 | Peak |

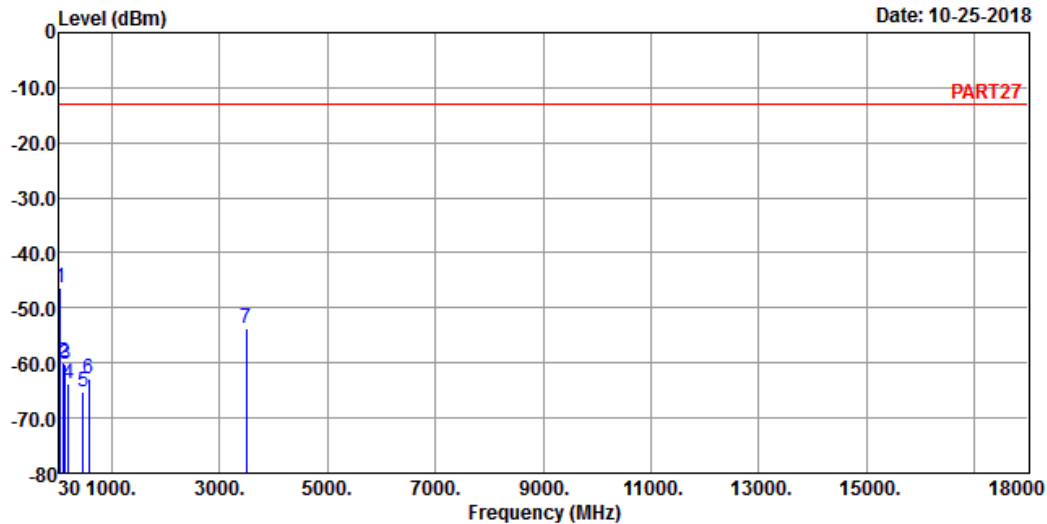


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 10-25-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 4 QPSK_20M Link_H-CH
 Tested by: Thomas Wei

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|---------|--------|------------|------------|------------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp | 43.58 | -46.47 | -45.00 | -13.00 | -33.47 | -1.47 | Peak |
| 2 | 112.45 | -59.87 | -49.67 | -13.00 | -46.87 | -10.20 | Peak |
| 3 | 144.46 | -60.34 | -52.18 | -13.00 | -47.34 | -8.16 | Peak |
| 4 | 202.66 | -63.89 | -55.99 | -13.00 | -50.89 | -7.90 | Peak |
| 5 | 478.14 | -65.18 | -60.15 | -13.00 | -52.18 | -5.03 | Peak |
| 6 | 573.20 | -62.86 | -60.98 | -13.00 | -49.86 | -1.88 | Peak |
| 7 | 3490.00 | -53.73 | -46.08 | -13.00 | -40.73 | -7.65 | Peak |

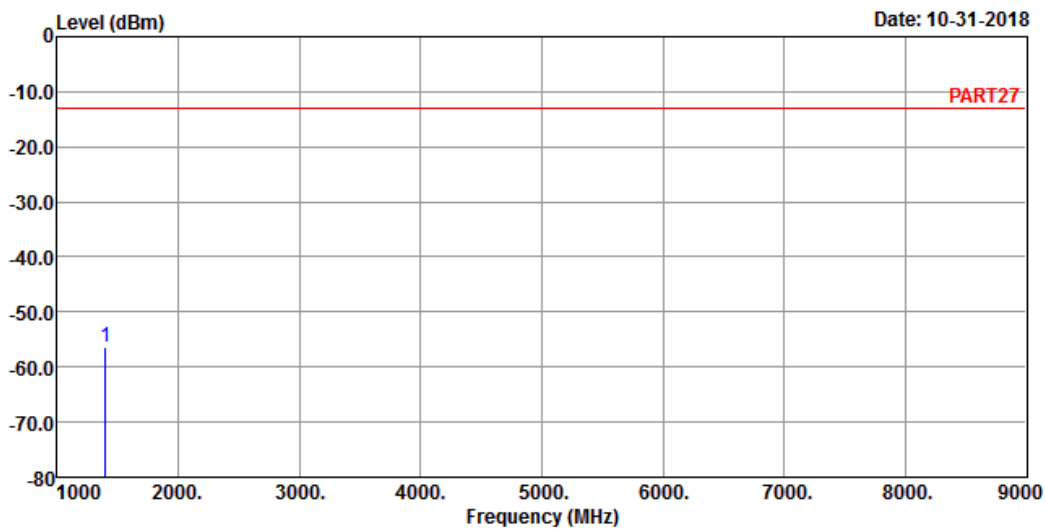
LTE Band 12
 Channel Bandwidth: 1.4 MHz / QPSK
 Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 12 QPSK_1.4M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1399.40 | -56.41 | -44.56 | -13.00 | -43.41 | -11.85 | Peak |

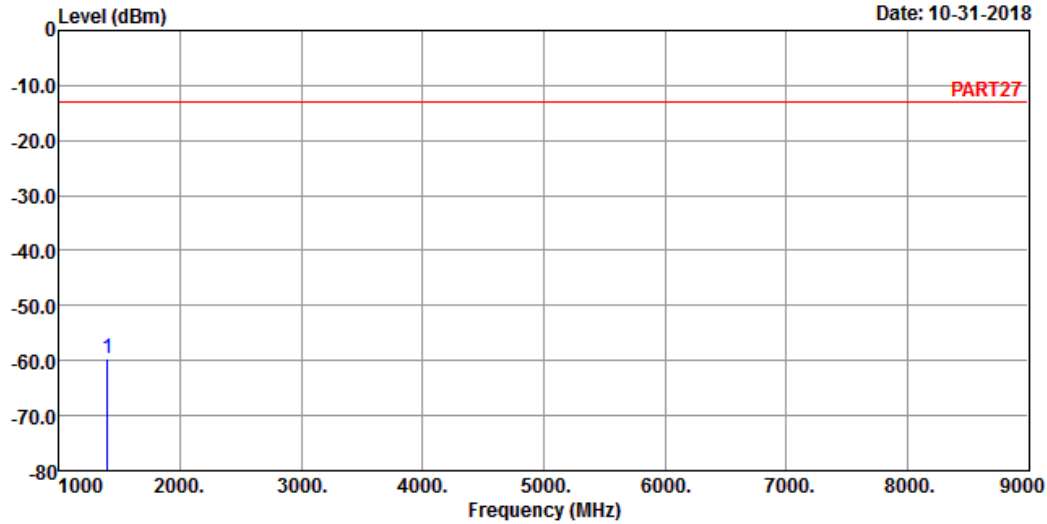


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 12 QPSK_1.4M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1399.40 | -59.59 | -47.74 | -13.00 | -46.59 | -11.85 | Peak |

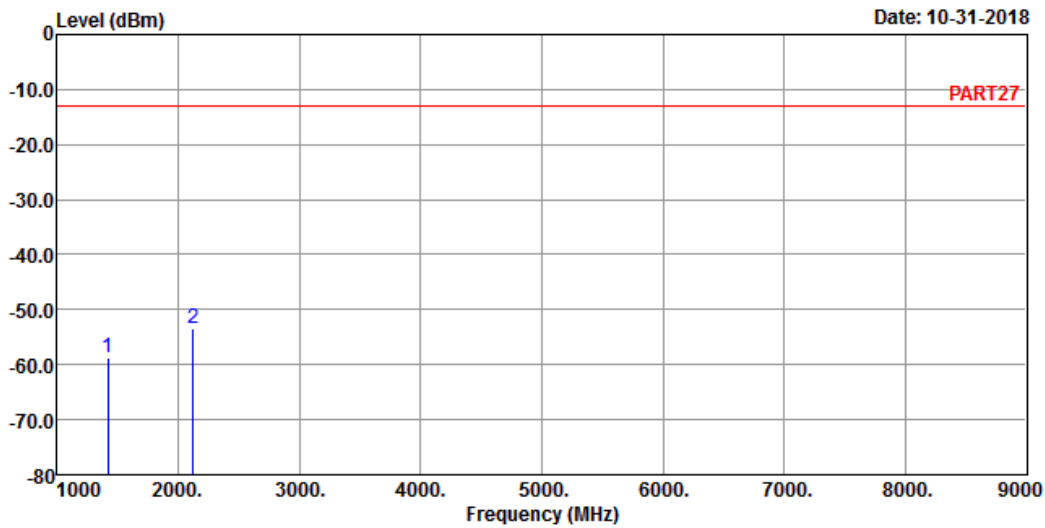
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 12 QPSK_1.4M Link_M-CH
 Tested by: Thomas Wei

| | Read | Limit | Over | | | | |
|------|---------|--------|--------|--------|--------|--------|------|
| Freq | Level | Level | Line | Limit | Factor | Remark | |
| MHz | dBm | dBm | dBm | dB | dB | | |
| 1 | 1415.00 | -58.86 | -46.78 | -13.00 | -45.86 | -12.08 | Peak |
| 2 pp | 2122.50 | -53.34 | -43.47 | -13.00 | -40.34 | -9.87 | Peak |

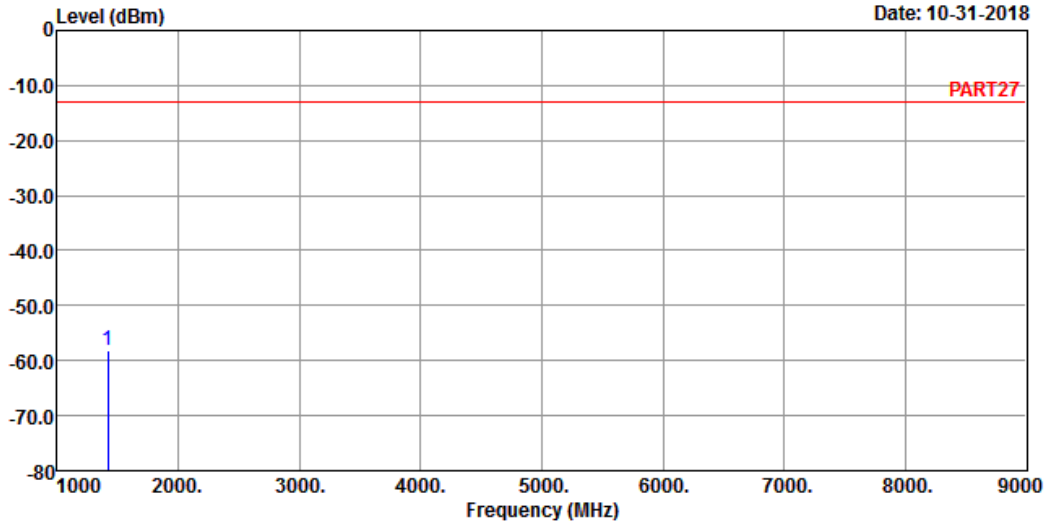


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 12 QPSK_1.4M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1415.00 | -58.16 | -46.08 | -13.00 | -45.16 | -12.08 | Peak |

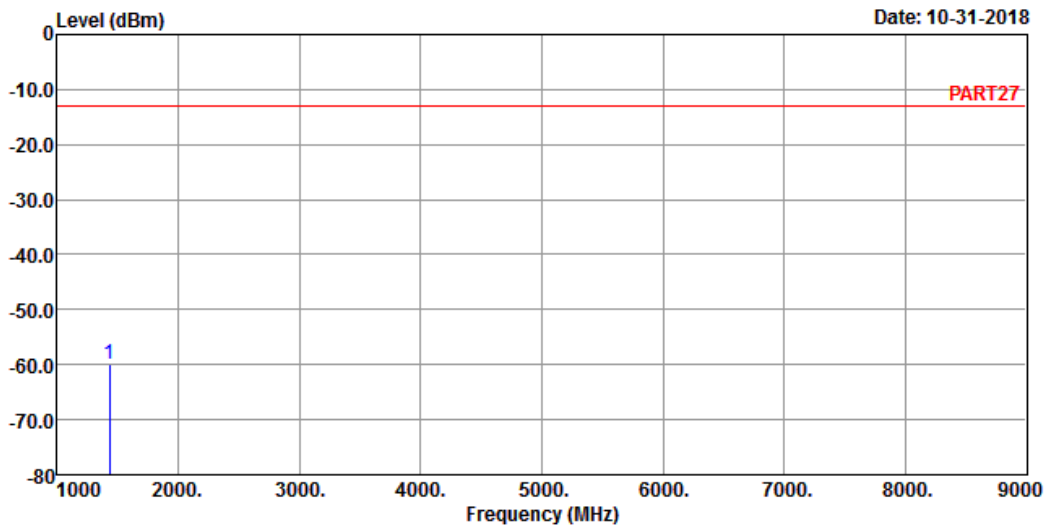
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 12 QPSK_1.4M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

1 pp 1430.60 -59.92 -47.61 -13.00 -46.92 -12.31 Peak

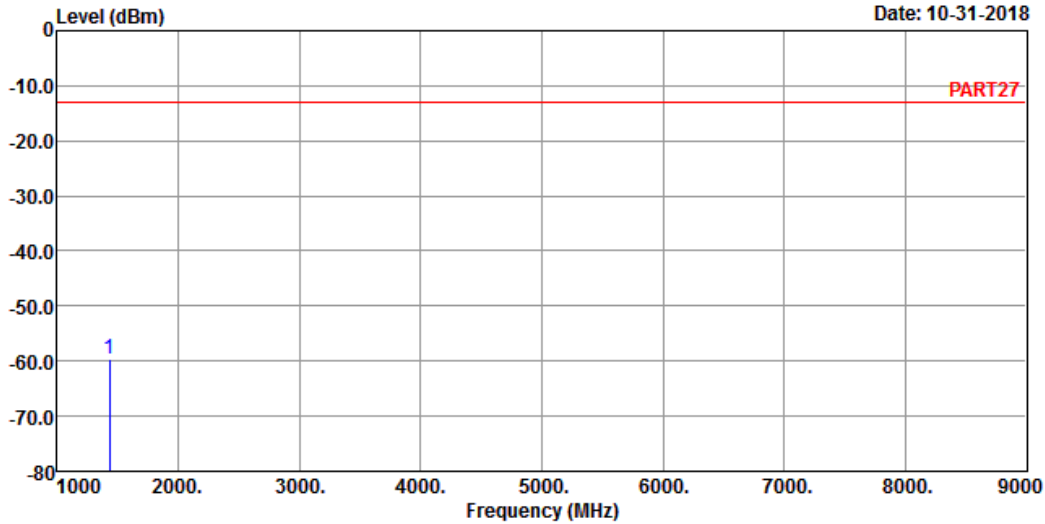


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 12 QPSK_1.4M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1430.60 | -59.62 | -47.31 | -13.00 | -46.62 | -12.31 | Peak |

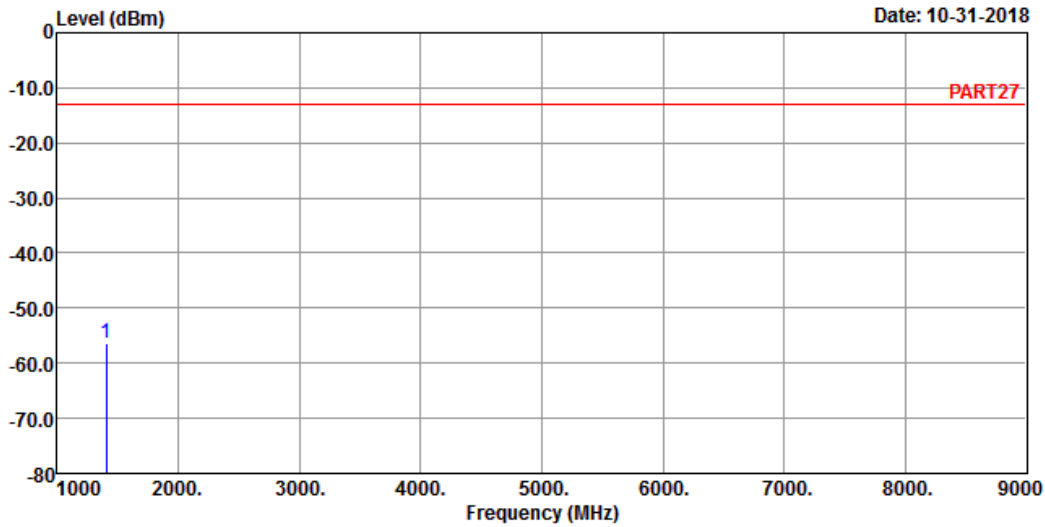
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 12 QPSK_5M Link_L-CH
Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

1 pp 1403.00 -56.32 -44.41 -13.00 -43.32 -11.91 Peak

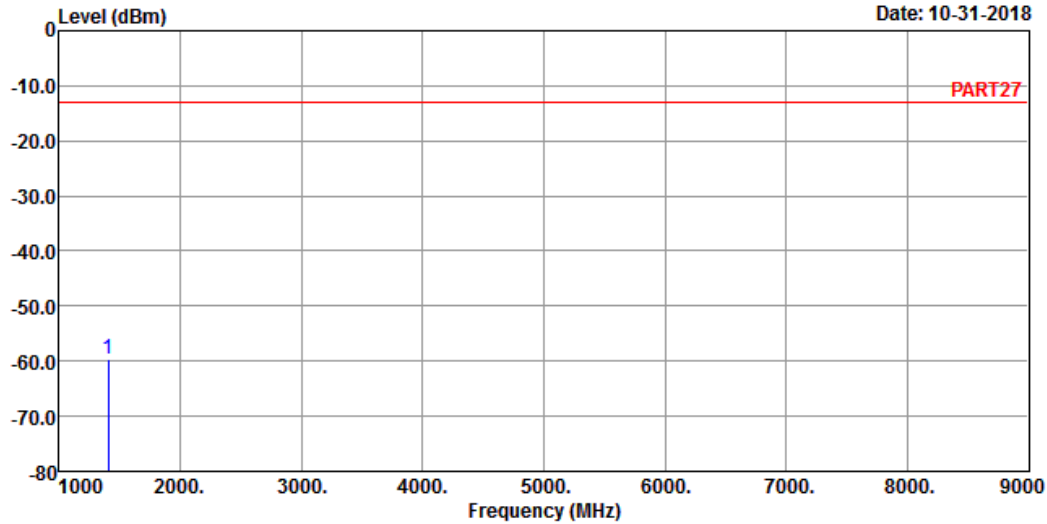


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 12 QPSK_5M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1403.00 | -59.51 | -47.60 | -13.00 | -46.51 | -11.91 | Peak |

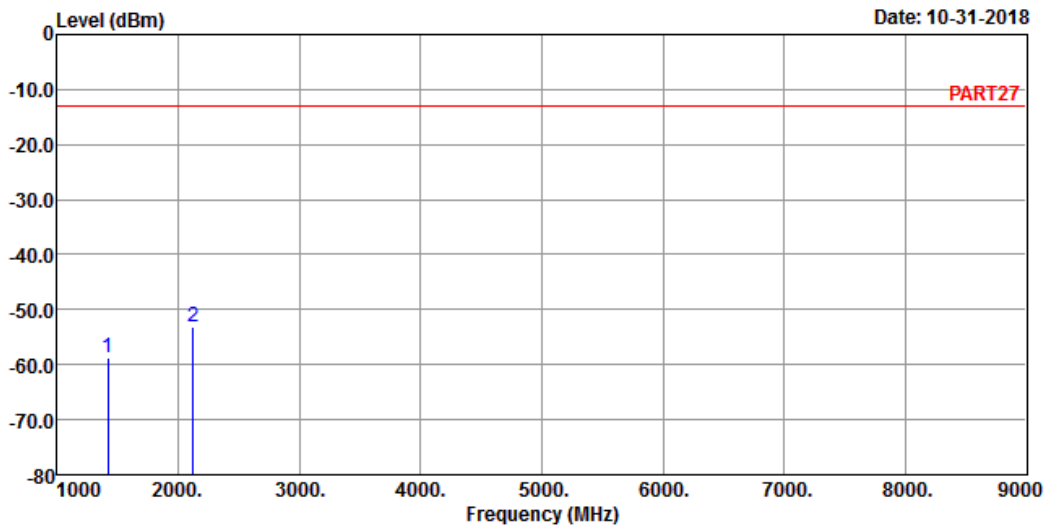
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 12 QPSK_5M Link_M-CH
 Tested by: Thomas Wei

| | Freq | Level | Read Level | Limit | Over | Factor | Remark |
|------|---------|--------|------------|--------|--------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 1415.00 | -58.82 | -46.74 | -13.00 | -45.82 | -12.08 | Peak |
| 2 pp | 2122.50 | -53.12 | -43.25 | -13.00 | -40.12 | -9.87 | Peak |

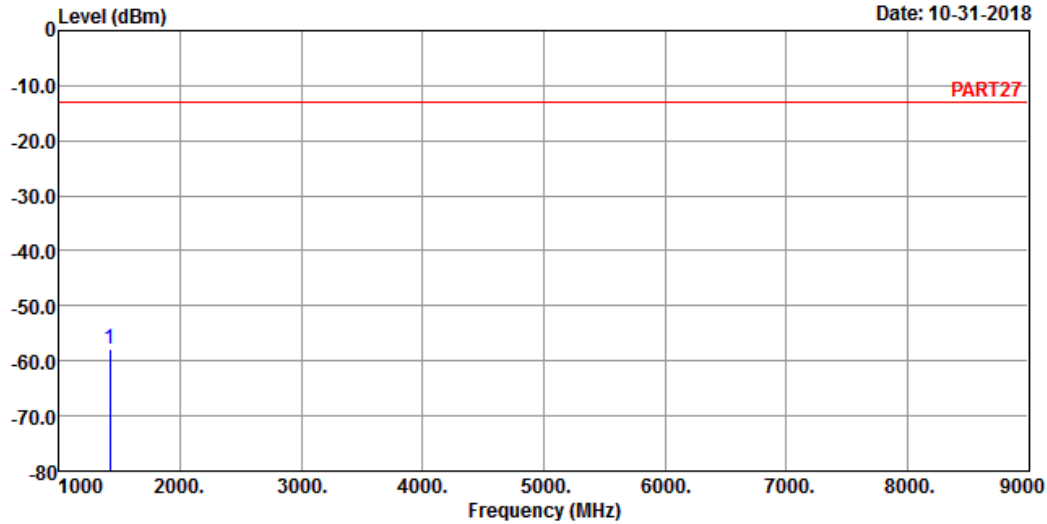


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 12 QPSK_5M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1415.00 | -57.91 | -45.83 | -13.00 | -44.91 | -12.08 | Peak |

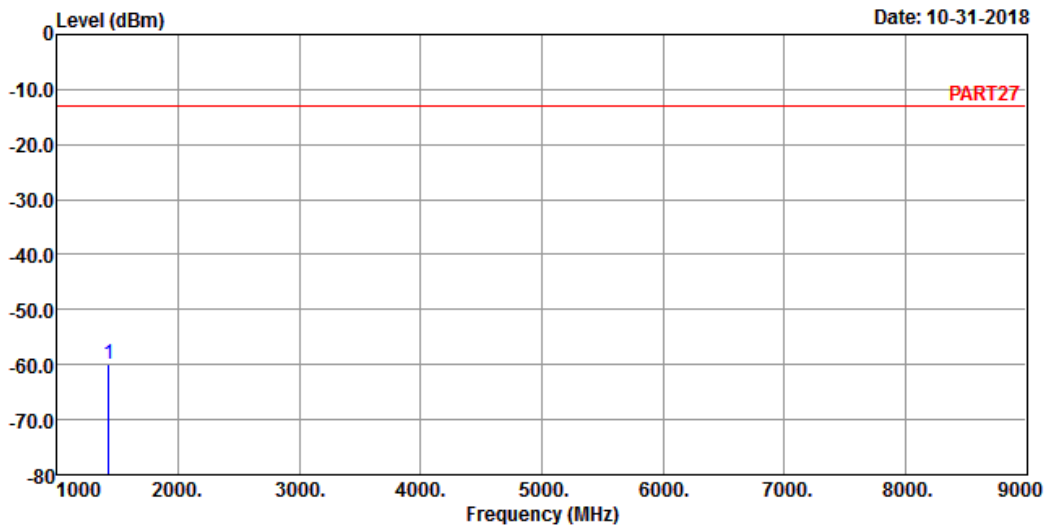
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 12 QPSK_5M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

1 pp 1427.00 -60.01 -47.76 -13.00 -47.01 -12.25 Peak

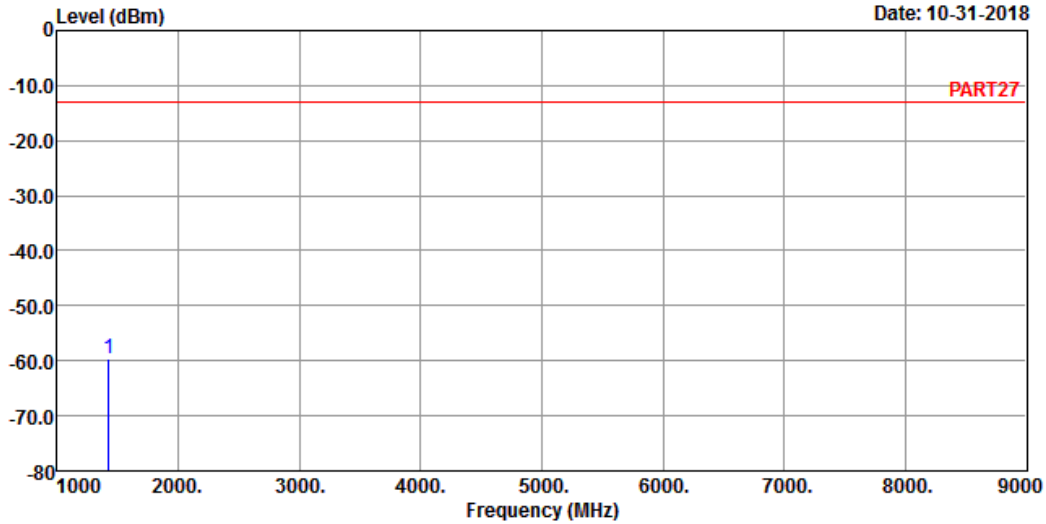


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 12 QPSK_5M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1427.00 | -59.70 | -47.45 | -13.00 | -46.70 | -12.25 | Peak |

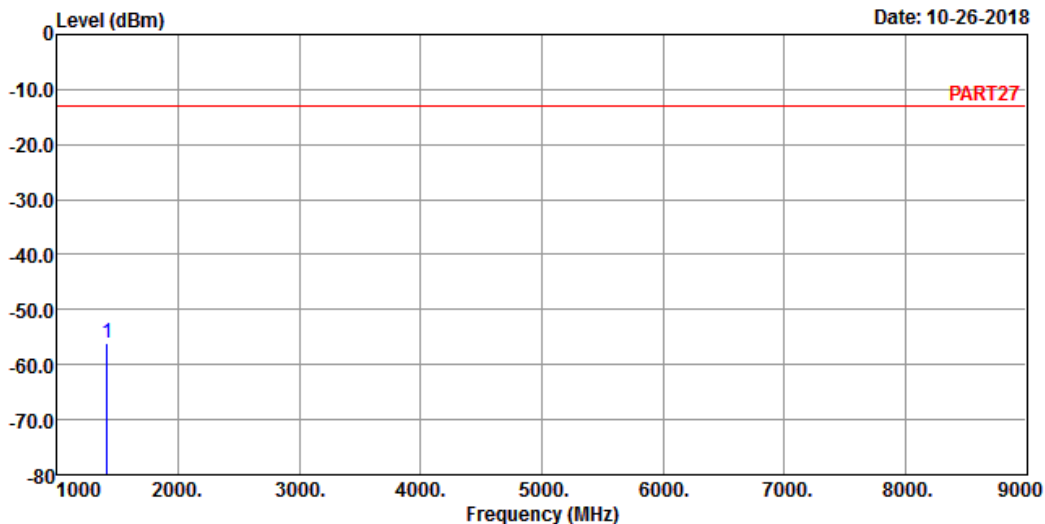
Channel Bandwidth: 10 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 12 QPSK_10M Link_L-CH
Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

1 pp 1408.00 -56.13 -44.17 -13.00 -43.13 -11.96 Peak

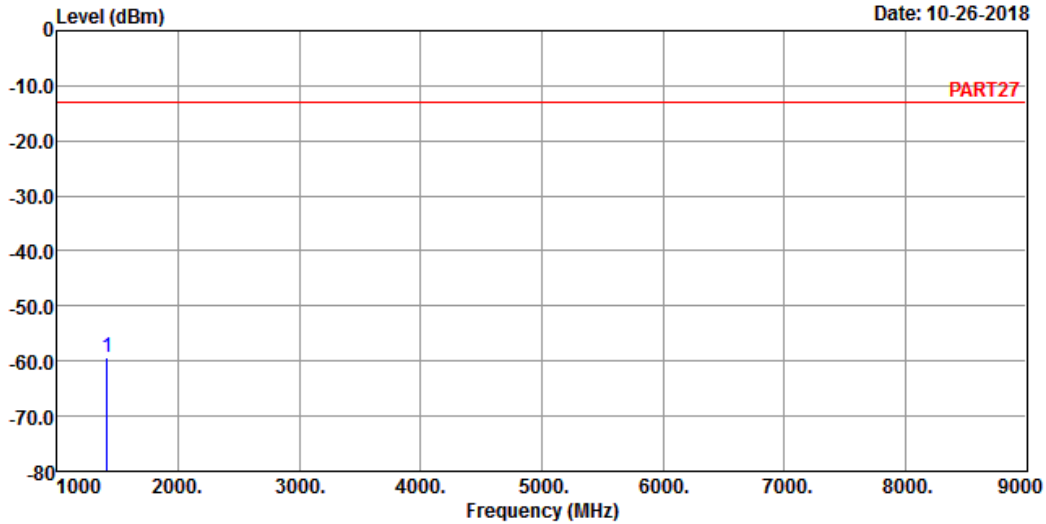


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-26-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 12 QPSK_10M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|---------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1408.00 | -59.25 | -47.29 | -13.00 | -46.25 | -11.96 | Peak |

Middle Channel

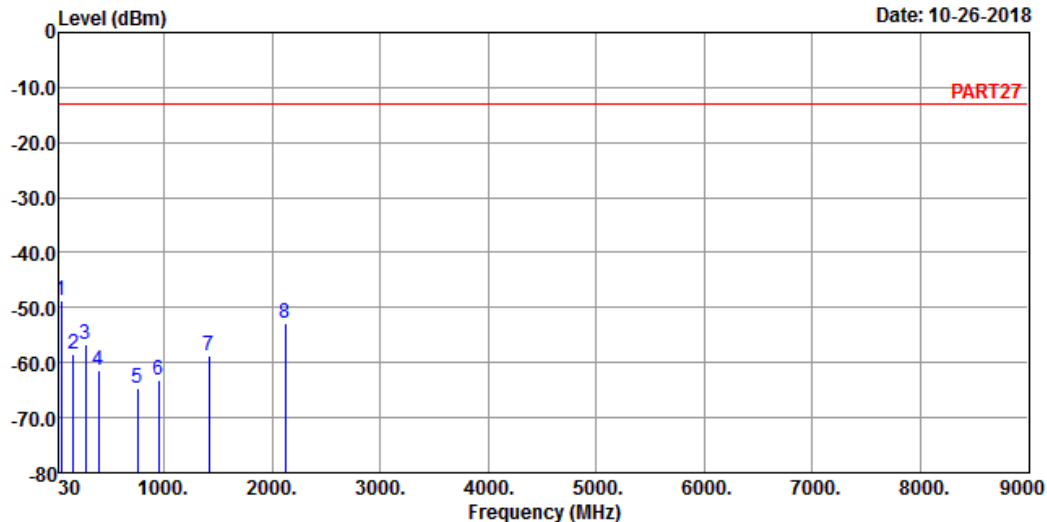


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 10-26-2018



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 12 QPSK_10M Link_M-CH
 Tested by: Thomas Wei

| | Read | Limit | Over | | | | |
|------|---------|--------|--------|--------|--------|--------|------|
| Freq | Level | Level | Line | Limit | Factor | Remark | |
| MHz | dBm | dBm | dBm | dB | dB | | |
| 1 pp | 44.55 | -48.64 | -46.65 | -13.00 | -35.64 | -1.99 | Peak |
| 2 | 162.89 | -58.48 | -53.43 | -13.00 | -45.48 | -5.05 | Peak |
| 3 | 274.44 | -56.81 | -50.32 | -13.00 | -43.81 | -6.49 | Peak |
| 4 | 393.75 | -61.28 | -55.30 | -13.00 | -48.28 | -5.98 | Peak |
| 5 | 752.65 | -64.52 | -65.39 | -13.00 | -51.52 | 0.87 | Peak |
| 6 | 945.68 | -63.12 | -64.82 | -13.00 | -50.12 | 1.70 | Peak |
| 7 | 1415.00 | -58.76 | -46.68 | -13.00 | -45.76 | -12.08 | Peak |
| 8 | 2122.50 | -52.83 | -42.96 | -13.00 | -39.83 | -9.87 | Peak |

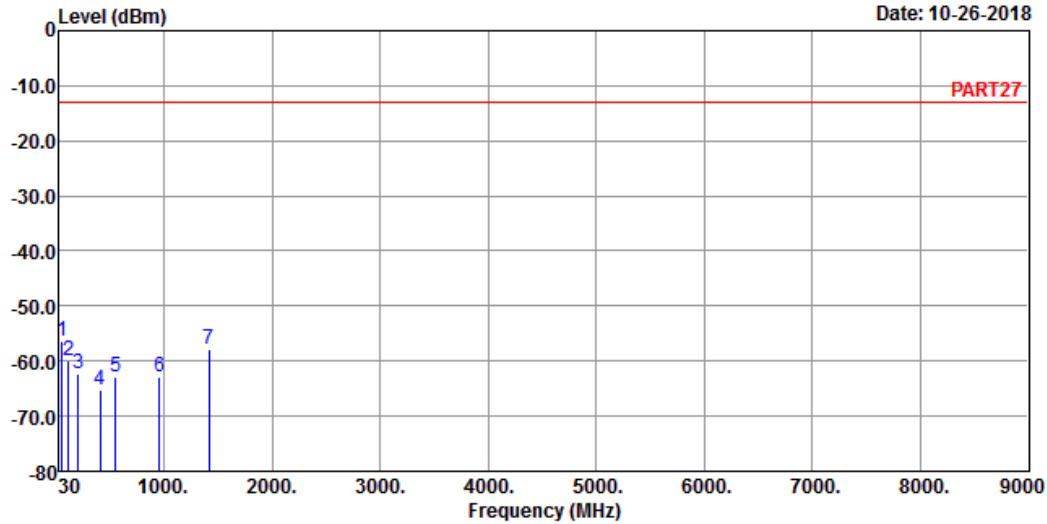


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 10-26-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 12 QPSK_10M Link_M-CH
 Tested by: Thomas Wei

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|---------|--------|------------|------------|------------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp | 52.31 | -56.31 | -50.77 | -13.00 | -43.31 | -5.54 | Peak |
| 2 | 113.42 | -59.95 | -49.80 | -13.00 | -46.95 | -10.15 | Peak |
| 3 | 202.66 | -62.35 | -54.45 | -13.00 | -49.35 | -7.90 | Peak |
| 4 | 407.33 | -65.15 | -59.26 | -13.00 | -52.15 | -5.89 | Peak |
| 5 | 552.83 | -63.02 | -60.29 | -13.00 | -50.02 | -2.73 | Peak |
| 6 | 957.32 | -62.94 | -65.01 | -13.00 | -49.94 | 2.07 | Peak |
| 7 | 1415.00 | -57.77 | -45.69 | -13.00 | -44.77 | -12.08 | Peak |

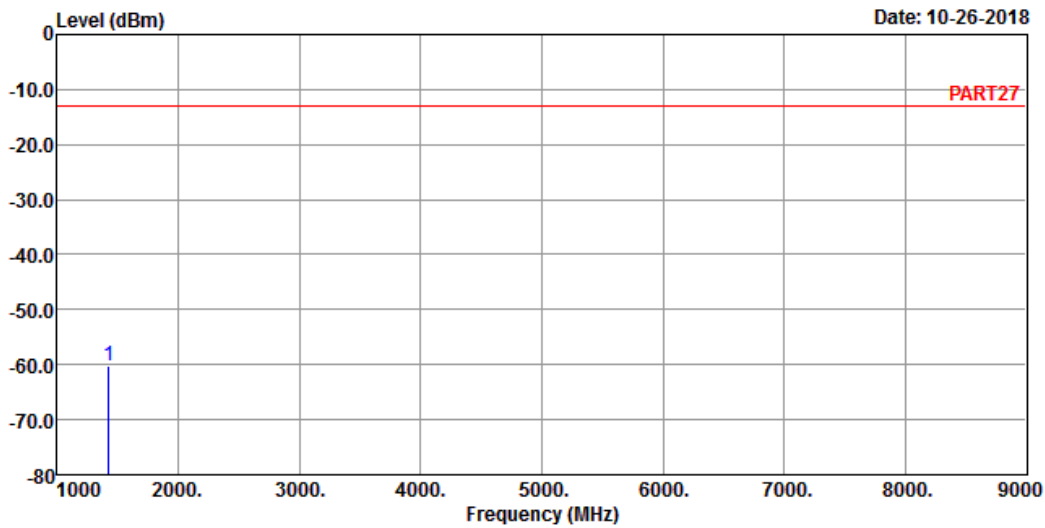
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 12 QPSK_10M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

1 pp 1422.00 -60.14 -47.95 -13.00 -47.14 -12.19 Peak

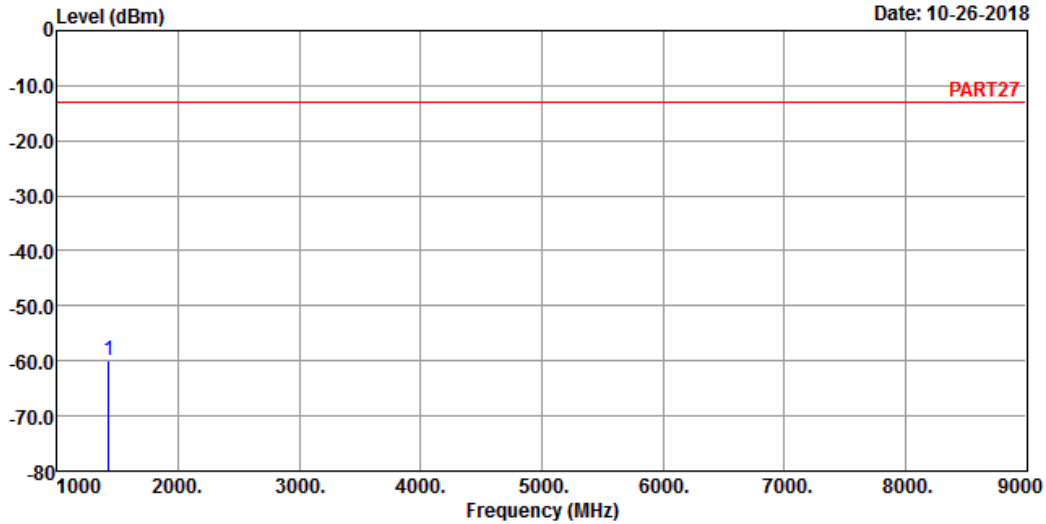


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-26-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 12 QPSK_10M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1422.00 | -59.79 | -47.60 | -13.00 | -46.79 | -12.19 | Peak |

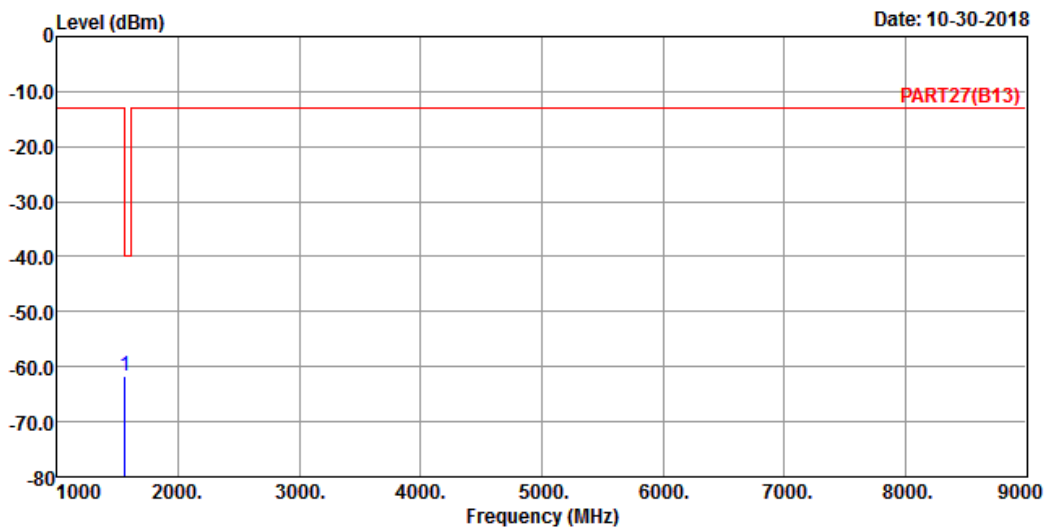
LTE Band 13
 Channel Bandwidth: 5 MHz / QPSK
 Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27(B13) HORIZONTAL
 Remark : LTE Band 13 QPSK_5M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1559.00 | -61.80 | -48.48 | -40.00 | -21.80 | -13.32 | Peak |

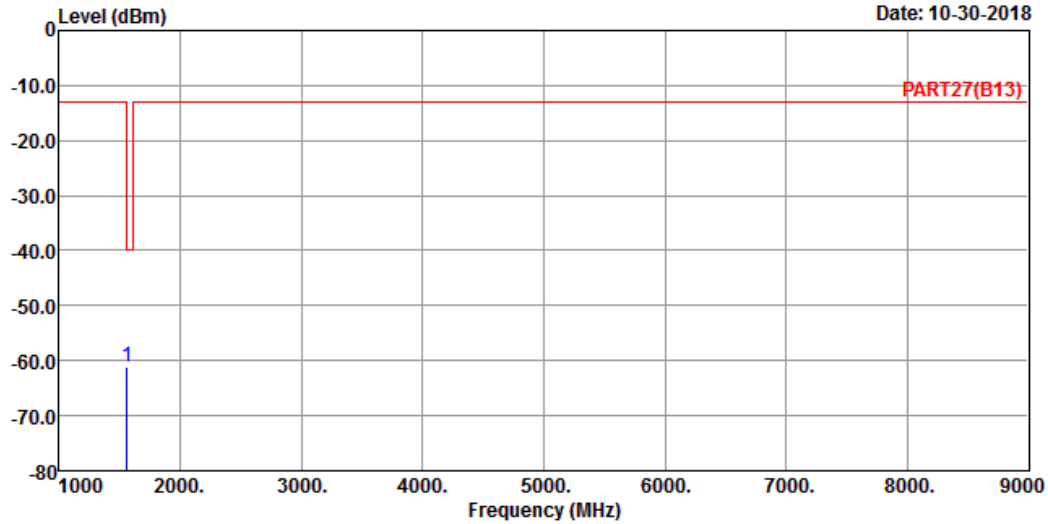


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-30-2018



Site : 966 Chamber 5
 Condition: PART27(B13) VERTICAL
 Remak : LTE Band 13 QPSK_5M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1559.00 | -61.06 | -47.74 | -40.00 | -21.06 | -13.32 | Peak |

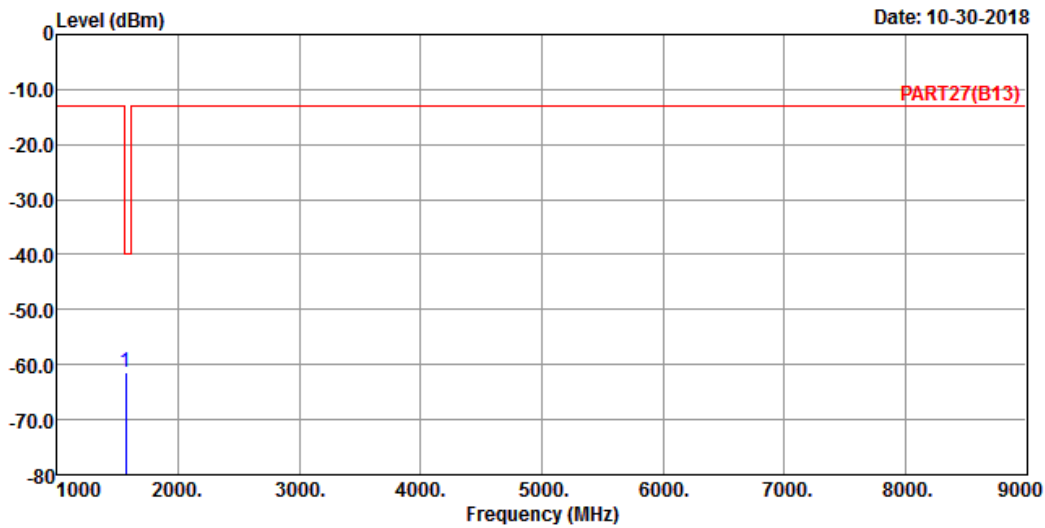
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27(B13) HORIZONTAL
 Remak : LTE Band 13 QPSK_5M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

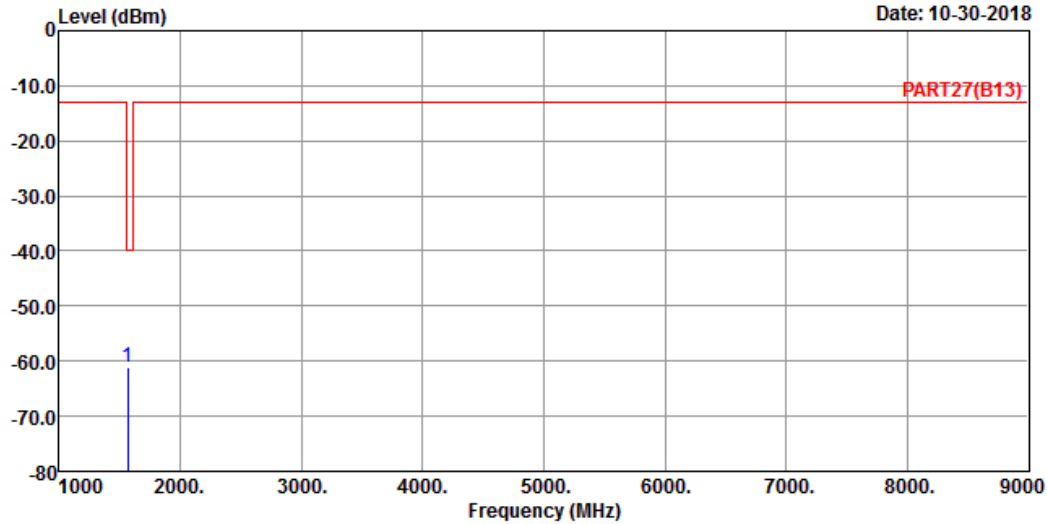
1 pp 1564.00 -61.36 -48.02 -40.00 -21.36 -13.34 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27(B13) VERTICAL
 Remark : LTE Band 13 QPSK_5M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1564.00 | -61.07 | -47.73 | -40.00 | -21.07 | -13.34 | Peak |

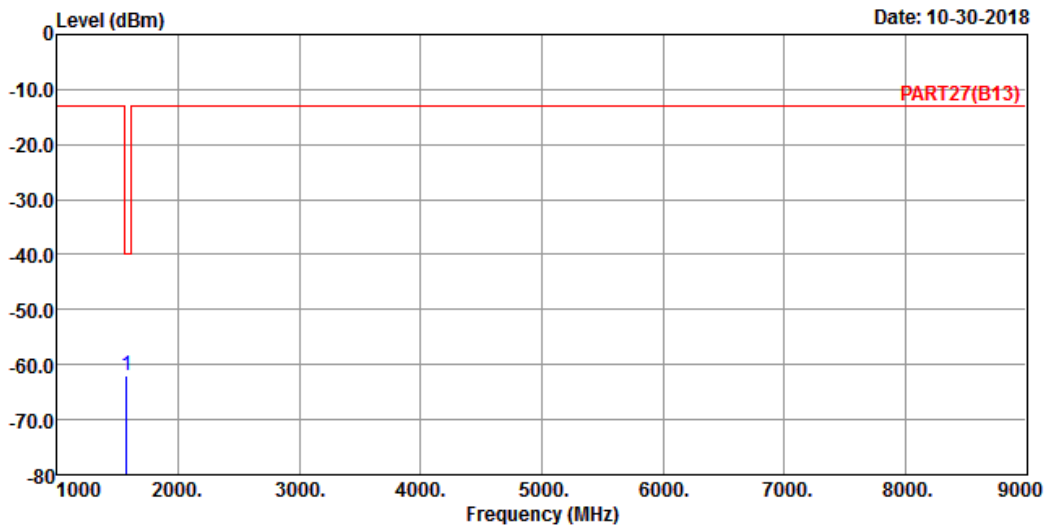
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27(B13) HORIZONTAL
 Remak : LTE Band 13 QPSK_5M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

1 pp 1569.00 -61.85 -48.50 -40.00 -21.85 -13.35 Peak

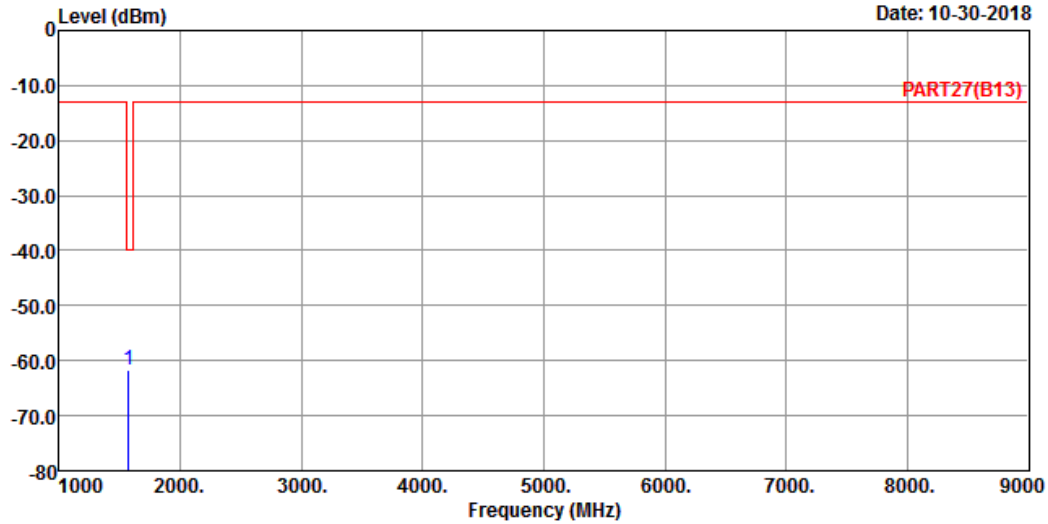


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-30-2018



Site : 966 Chamber 5
 Condition: PART27(B13) VERTICAL
 Remak : LTE Band 13 QPSK_5M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1569.00 | -61.76 | -48.41 | -40.00 | -21.76 | -13.35 | Peak |

Channel Bandwidth: 10 MHz / QPSK
Middle Channel

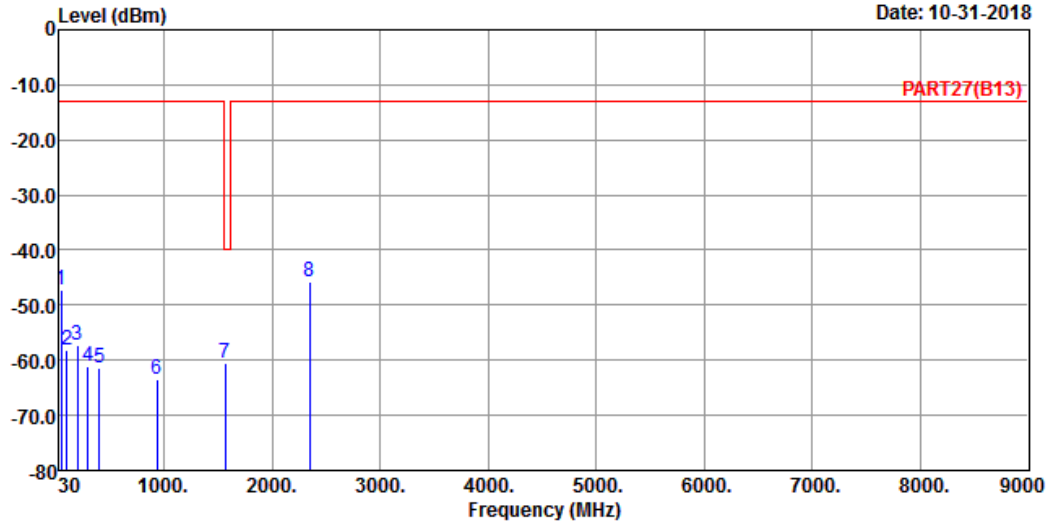


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 10-31-2018



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : LTE Band 13 QPSK_10M Link_M-CH
Tested by: Thomas Wei

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|---------|--------|------------|------------|------------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 43.58 | -47.14 | -45.67 | -13.00 | -34.14 | -1.47 | Peak |
| 2 | 96.93 | -58.26 | -47.53 | -13.00 | -45.26 | -10.73 | Peak |
| 3 | 199.75 | -57.20 | -49.18 | -13.00 | -44.20 | -8.02 | Peak |
| 4 | 294.81 | -61.10 | -54.19 | -13.00 | -48.10 | -6.91 | Peak |
| 5 | 398.60 | -61.42 | -55.47 | -13.00 | -48.42 | -5.95 | Peak |
| 6 | 935.01 | -63.45 | -64.89 | -13.00 | -50.45 | 1.44 | Peak |
| 7 pp | 1564.00 | -60.56 | -47.22 | -40.00 | -20.56 | -13.34 | Peak |
| 8 | 2346.00 | -45.68 | -36.24 | -13.00 | -32.68 | -9.44 | Peak |

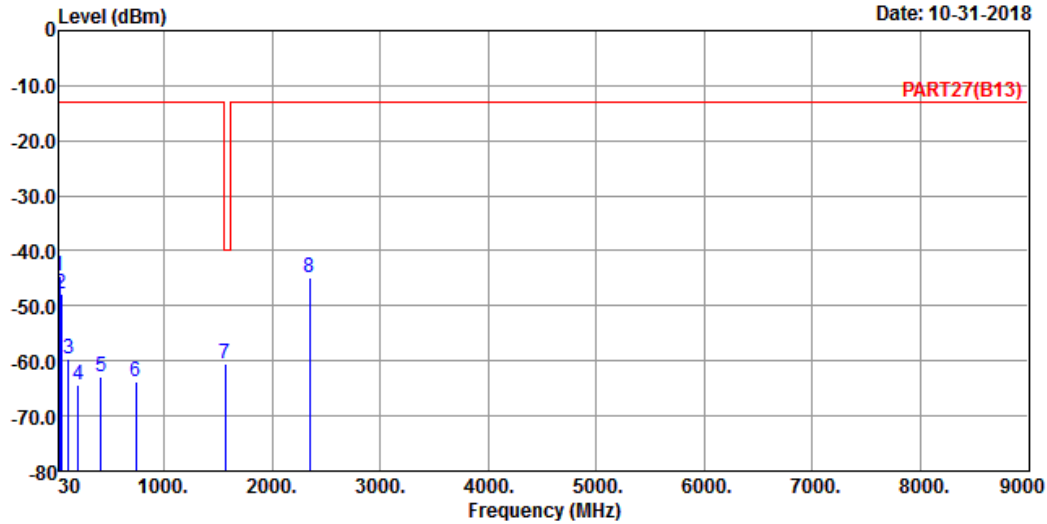


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27(B13) VERTICAL
 Remak : LTE Band 13 QPSK_10M Link_M-CH
 Tested by: Thomas Wei

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|---------|--------|------------|------------|------------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 30.00 | -44.72 | -45.10 | -13.00 | -31.72 | 0.38 | Peak |
| 2 | 44.55 | -47.71 | -45.72 | -13.00 | -34.71 | -1.99 | Peak |
| 3 | 111.48 | -59.49 | -49.25 | -13.00 | -46.49 | -10.24 | Peak |
| 4 | 203.63 | -64.35 | -56.49 | -13.00 | -51.35 | -7.86 | Peak |
| 5 | 412.18 | -62.92 | -57.07 | -13.00 | -49.92 | -5.85 | Peak |
| 6 | 737.13 | -63.87 | -64.50 | -13.00 | -50.87 | 0.63 | Peak |
| 7 pp | 1564.00 | -60.46 | -47.12 | -40.00 | -20.46 | -13.34 | Peak |
| 8 | 2344.00 | -44.89 | -35.51 | -13.00 | -31.89 | -9.38 | Peak |

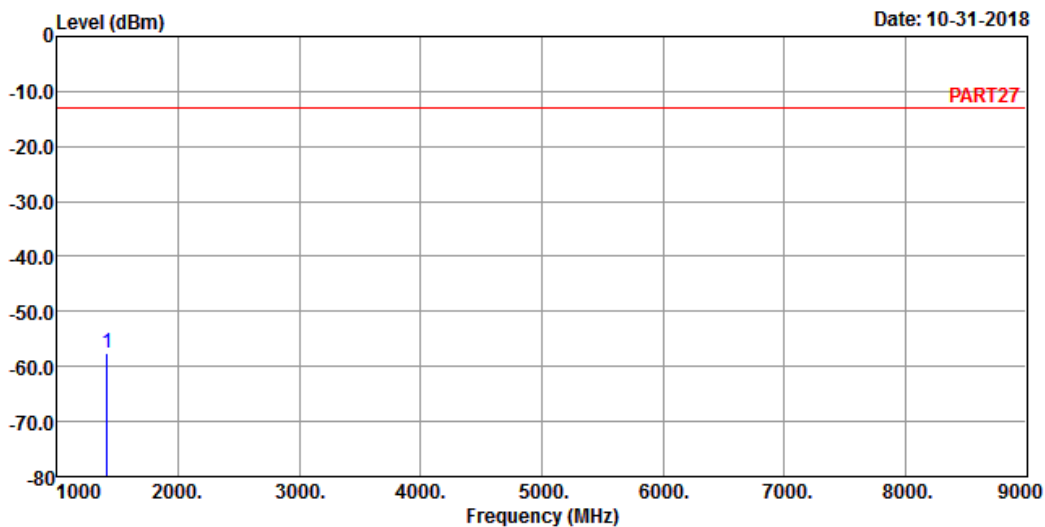
LTE Band 17
 Channel Bandwidth: 5 MHz / QPSK
 Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 17 QPSK_5M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

1 pp 1413.00 -57.47 -45.45 -13.00 -44.47 -12.02 Peak

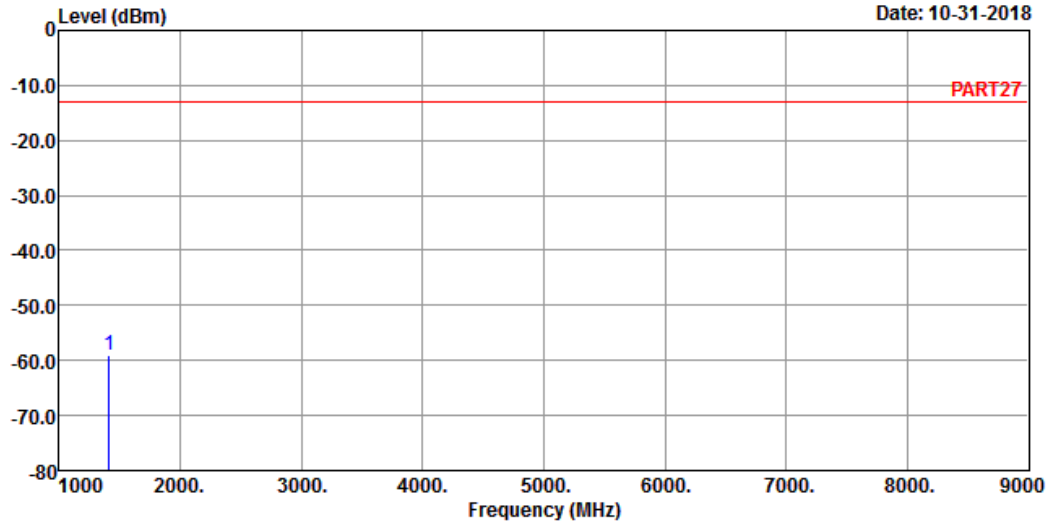


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 17 QPSK_5M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1413.00 | -59.10 | -47.08 | -13.00 | -46.10 | -12.02 | Peak |

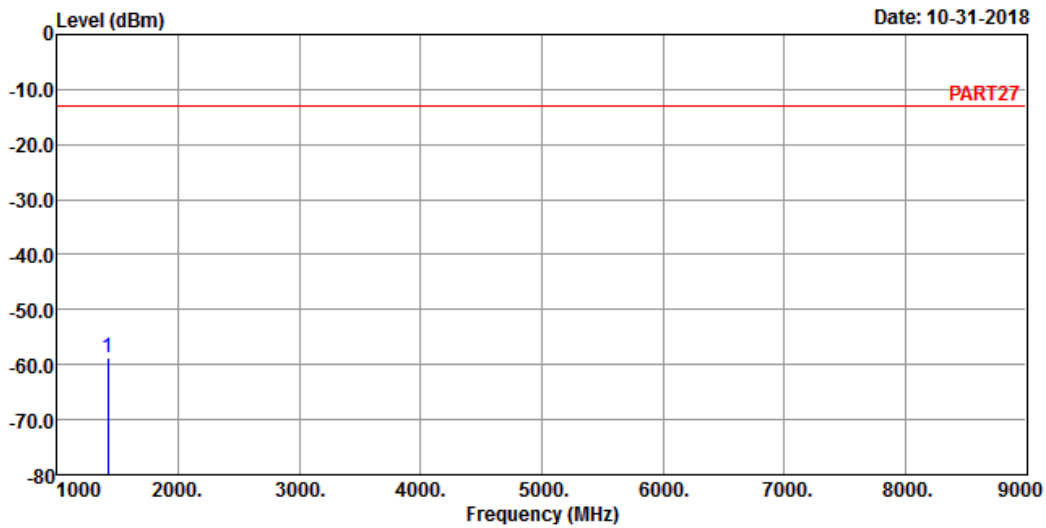
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 17 QPSK_5M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

1 pp 1420.00 -58.69 -46.55 -13.00 -45.69 -12.14 Peak

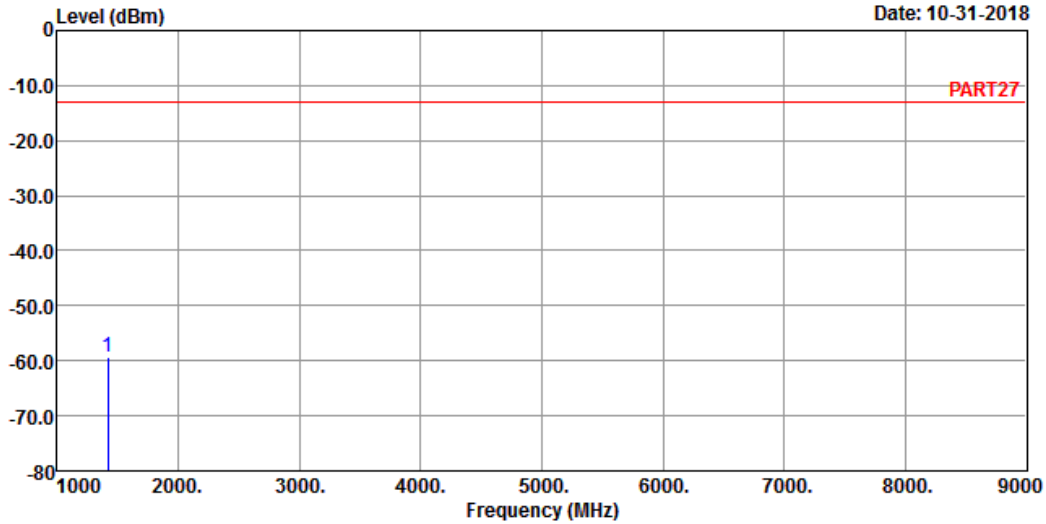


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 17 QPSK_5M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1420.00 | -59.37 | -47.23 | -13.00 | -46.37 | -12.14 | Peak |

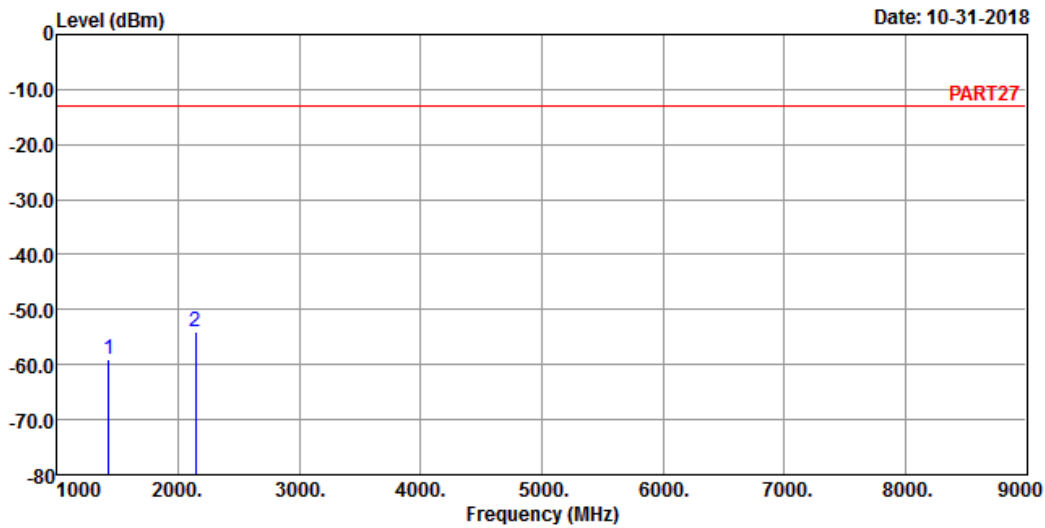
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 17 QPSK_5M Link_H-CH
 Tested by: Thomas Wei

| | Freq | Level | Read Level | Limit | Over | Factor | Remark |
|------|---------|--------|------------|--------|--------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 1427.00 | -59.03 | -46.78 | -13.00 | -46.03 | -12.25 | Peak |
| 2 pp | 2140.50 | -53.89 | -44.32 | -13.00 | -40.89 | -9.57 | Peak |

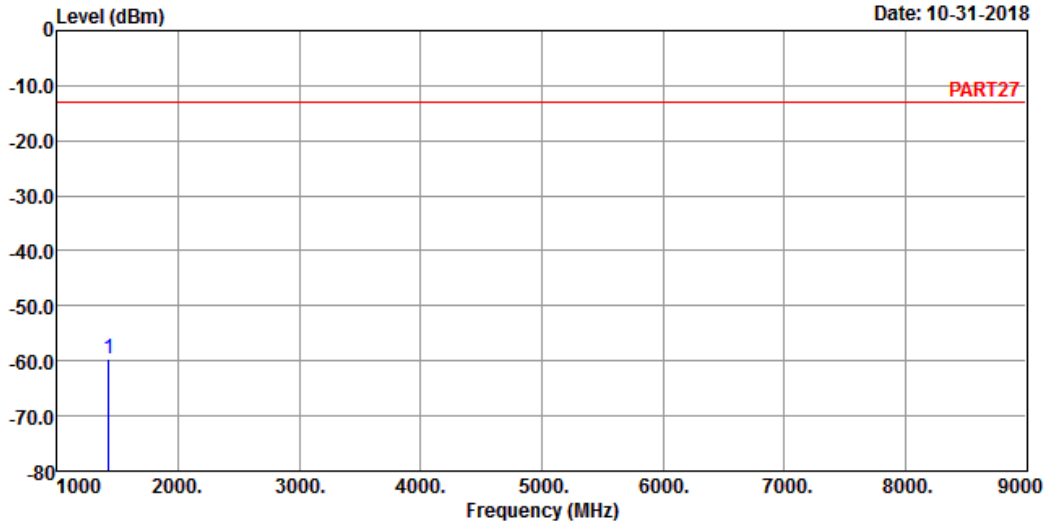


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 10-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 17 QPSK_5M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1427.00 | -59.63 | -47.38 | -13.00 | -46.63 | -12.25 | Peak |

Channel Bandwidth: 10 MHz / QPSK
Low Channel

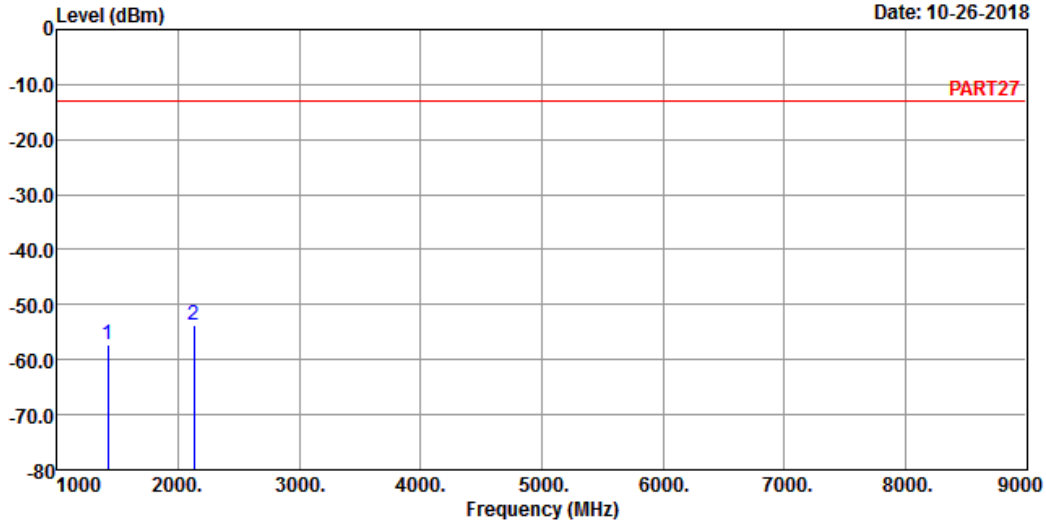


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 10-26-2018



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 17 QPSK_10M Link_L-CH
Tested by: Thomas Wei

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|---------|--------|------------|------------|------------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 1418.00 | -57.28 | -45.14 | -13.00 | -44.28 | -12.14 | Peak |
| 2 pp | 2127.00 | -53.82 | -44.05 | -13.00 | -40.82 | -9.77 | Peak |

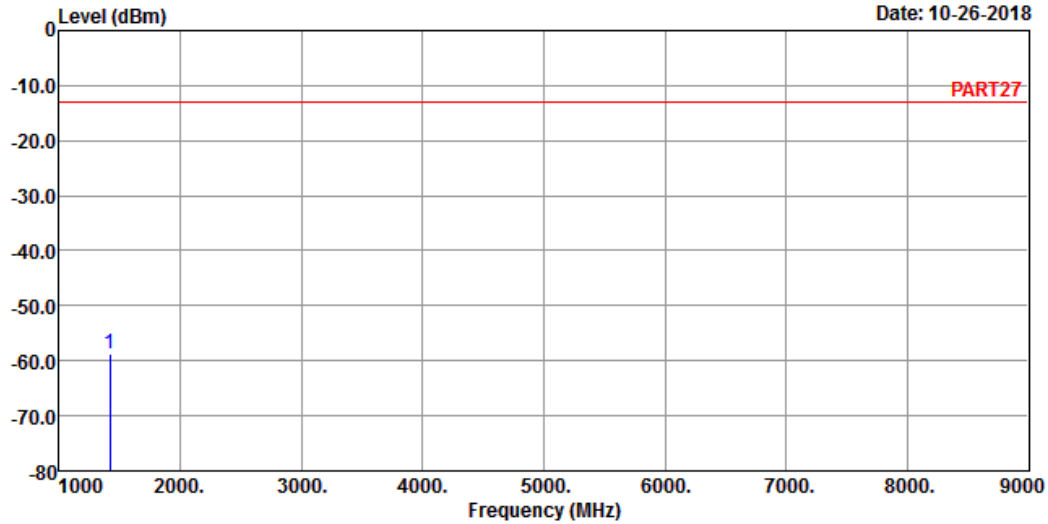


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-26-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 17 QPSK_10M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1418.00 | -58.87 | -46.73 | -13.00 | -45.87 | -12.14 | Peak |

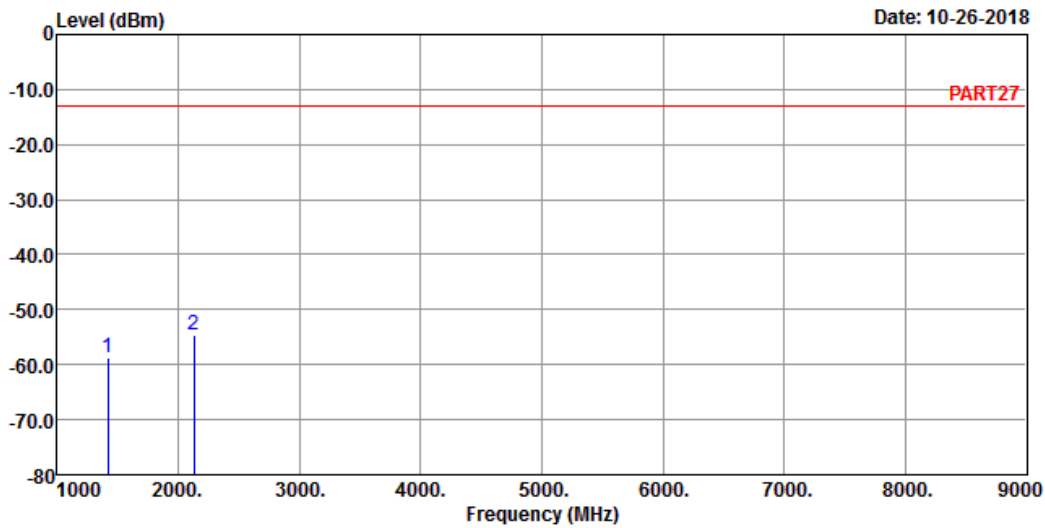
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 17 QPSK_10M Link_M-CH
 Tested by: Thomas Wei

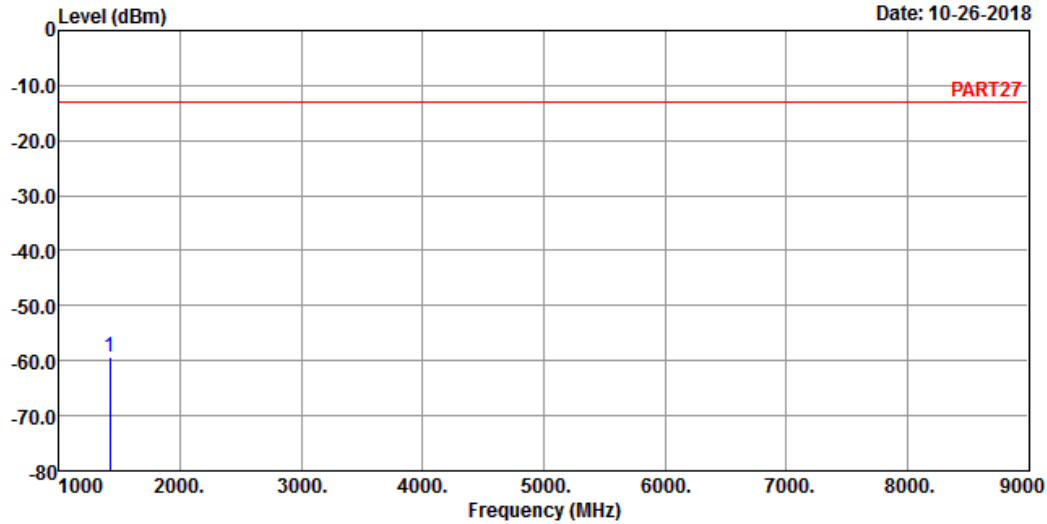
| | Freq | Level | Read Level | Limit | Over | Factor | Remark |
|------|---------|--------|------------|--------|--------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 1420.00 | -58.61 | -46.47 | -13.00 | -45.61 | -12.14 | Peak |
| 2 pp | 2130.00 | -54.66 | -44.89 | -13.00 | -41.66 | -9.77 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 17 QPSK_10M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 1420.00 | -59.24 | -47.10 | -13.00 | -46.24 | -12.14 | Peak |

High Channel

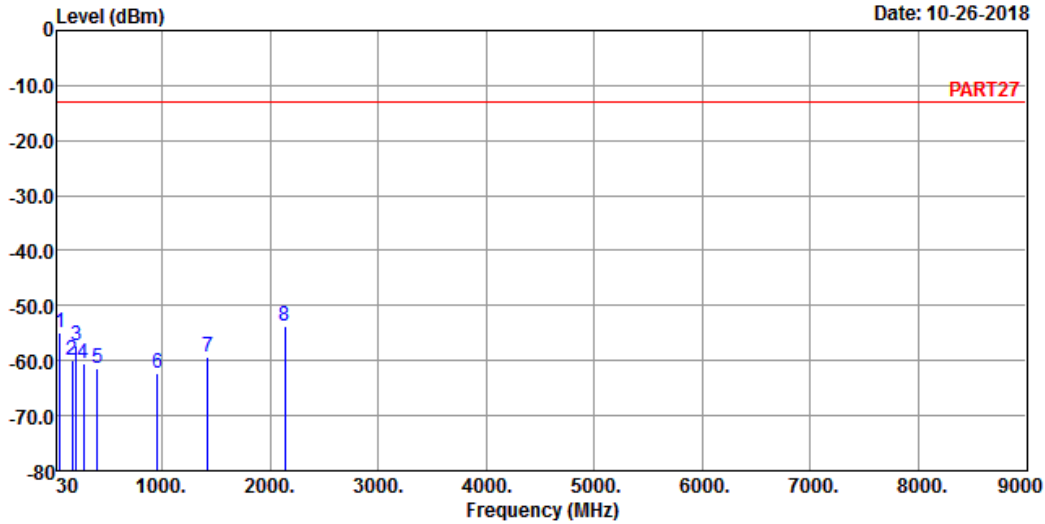


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 10-26-2018



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 17 QPSK_10M Link_H-CH
 Tested by: Thomas Wei

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|---------|--------|------------|------------|------------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 52.31 | -54.94 | -49.40 | -13.00 | -41.94 | -5.54 | Peak |
| 2 | 168.71 | -59.91 | -54.45 | -13.00 | -46.91 | -5.46 | Peak |
| 3 | 201.69 | -57.28 | -49.34 | -13.00 | -44.28 | -7.94 | Peak |
| 4 | 276.38 | -60.62 | -54.09 | -13.00 | -47.62 | -6.53 | Peak |
| 5 | 397.63 | -61.36 | -55.40 | -13.00 | -48.36 | -5.96 | Peak |
| 6 | 959.26 | -62.31 | -64.45 | -13.00 | -49.31 | 2.14 | Peak |
| 7 | 1422.00 | -59.26 | -47.07 | -13.00 | -46.26 | -12.19 | Peak |
| 8 pp | 2133.00 | -53.67 | -44.00 | -13.00 | -40.67 | -9.67 | Peak |

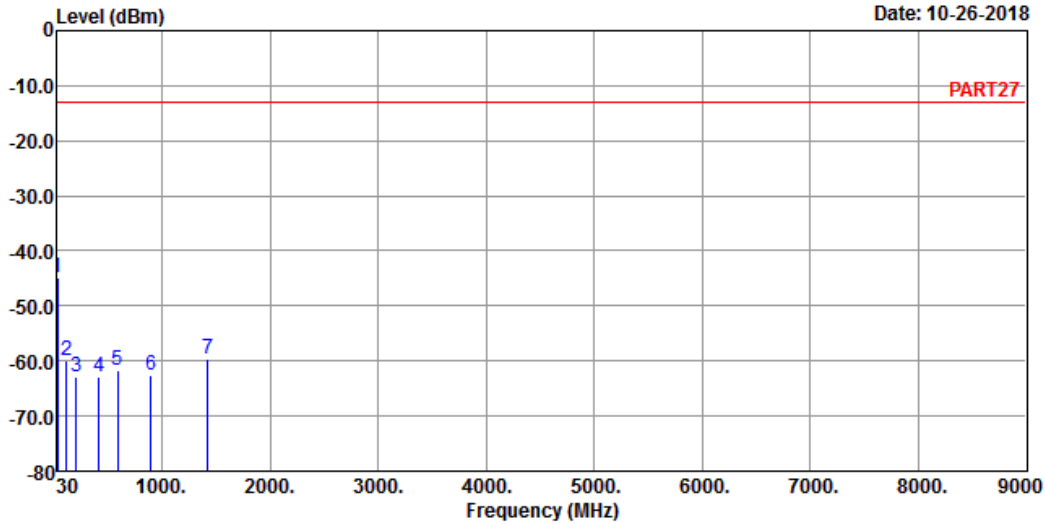


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 10-26-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 17 QPSK_10M Link_H-CH
 Tested by: Thomas Wei

| | Read | Limit | Over | | | |
|------|---------|--------|--------|--------|--------|-------------|
| Freq | Level | Level | Line | Limit | Factor | Remark |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp | 30.00 | -44.92 | -45.30 | -13.00 | -31.92 | 0.38 Peak |
| 2 | 113.42 | -59.97 | -49.82 | -13.00 | -46.97 | -10.15 Peak |
| 3 | 202.66 | -62.94 | -55.04 | -13.00 | -49.94 | -7.90 Peak |
| 4 | 416.06 | -62.96 | -57.14 | -13.00 | -49.96 | -5.82 Peak |
| 5 | 588.72 | -61.78 | -60.54 | -13.00 | -48.78 | -1.24 Peak |
| 6 | 899.12 | -62.53 | -63.10 | -13.00 | -49.53 | 0.57 Peak |
| 7 | 1422.00 | -59.53 | -47.34 | -13.00 | -46.53 | -12.19 Peak |

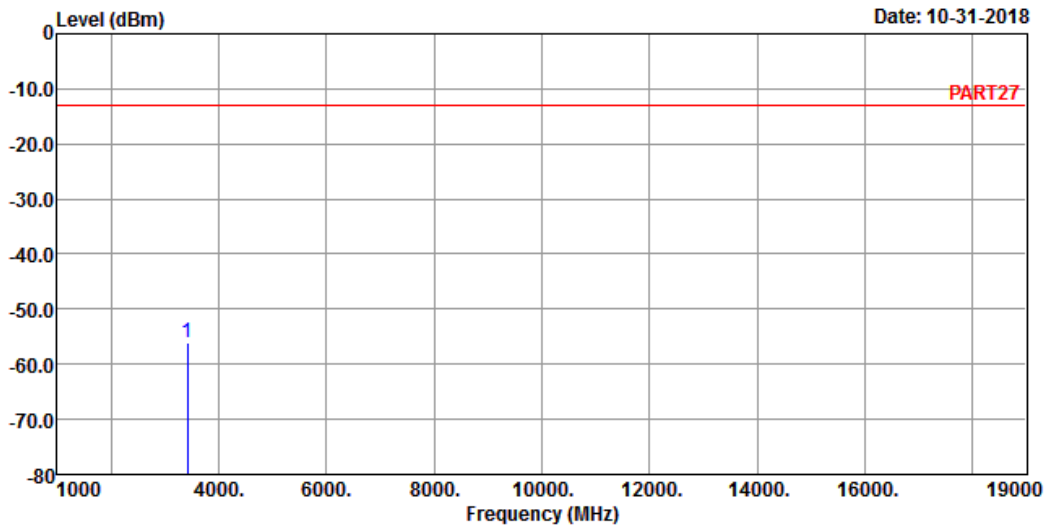
LTE Band 66:
 Channel Bandwidth: 1.4 MHz / QPSK
 Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 66 QPSK_1.4M Link_L-CH
 Tested by: Thomas Wei

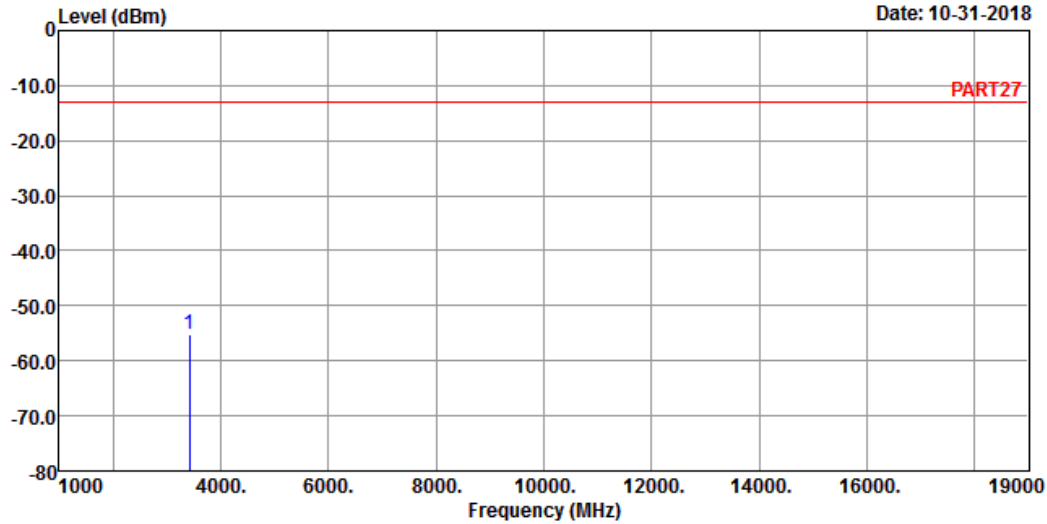
| Read | Limit | Over | | | | |
|--------------|--------|--------|--------|--------|--------|--------|
| Freq | Level | Level | Line | Limit | Factor | Remark |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3421.40 | -55.98 | -47.64 | -13.00 | -42.98 | -8.34 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remark : LTE Band 66 QPSK_1.4M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3421.40 | -55.29 | -46.95 | -13.00 | -42.29 | -8.34 | Peak |

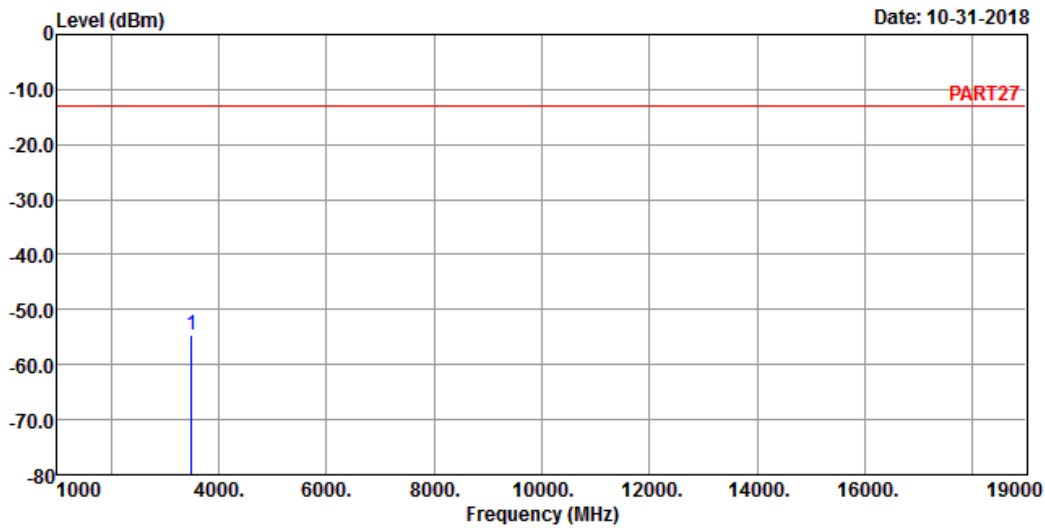
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 66 QPSK_1.4M Link_M-CH
 Tested by: Thomas Wei

| | Read | Limit | Over | | |
|------|-------|-------|------|-------|---------------|
| Freq | Level | Level | Line | Limit | Factor Remark |
| MHz | dBm | dBm | dBm | dB | dB |

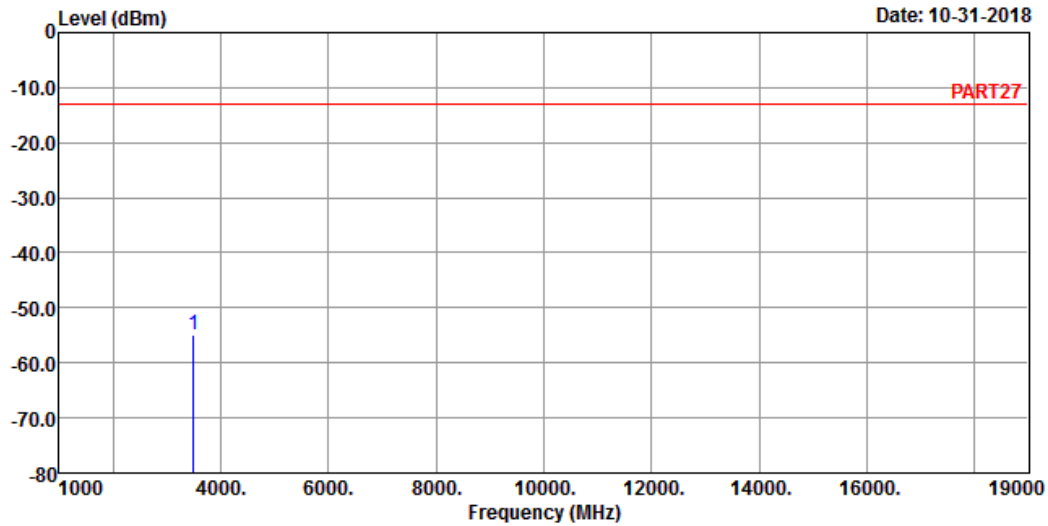
1 pp 3490.00 -54.68 -47.03 -13.00 -41.68 -7.65 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 66 QPSK_1.4M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3490.00 | -54.78 | -47.13 | -13.00 | -41.78 | -7.65 | Peak |

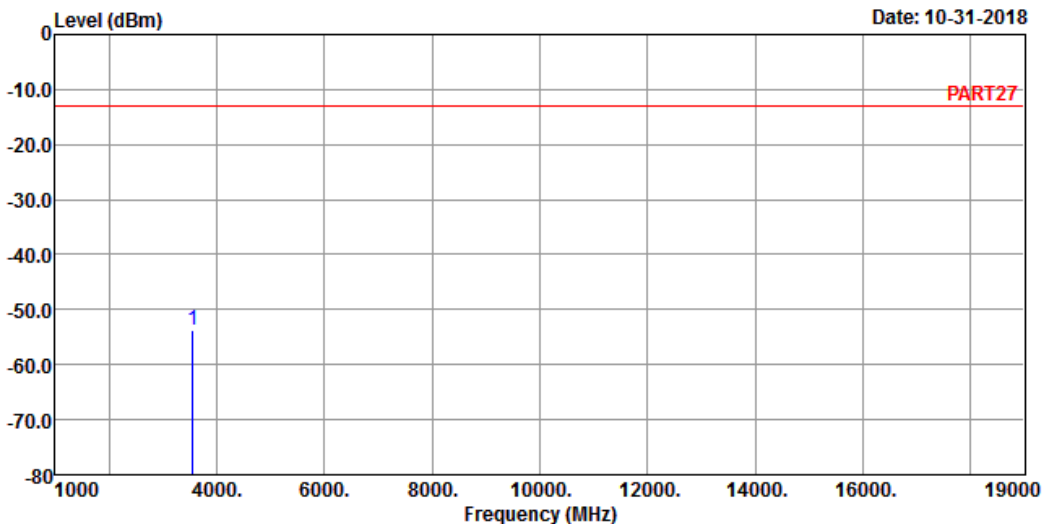
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 66 QPSK_1.4M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

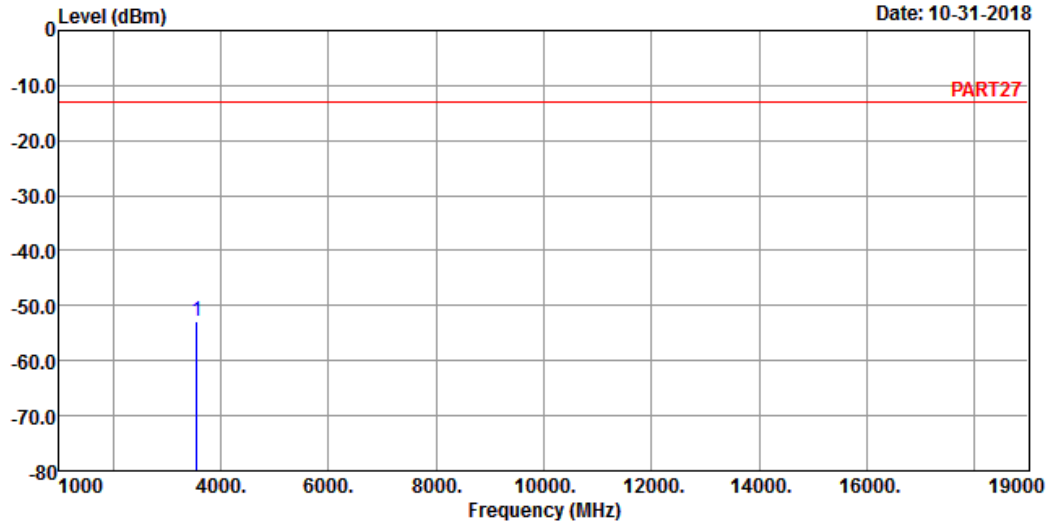
1 pp 3558.60 -53.58 -46.51 -13.00 -40.58 -7.07 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 66 QPSK_1.4M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3558.60 | -52.80 | -45.73 | -13.00 | -39.80 | -7.07 | Peak |

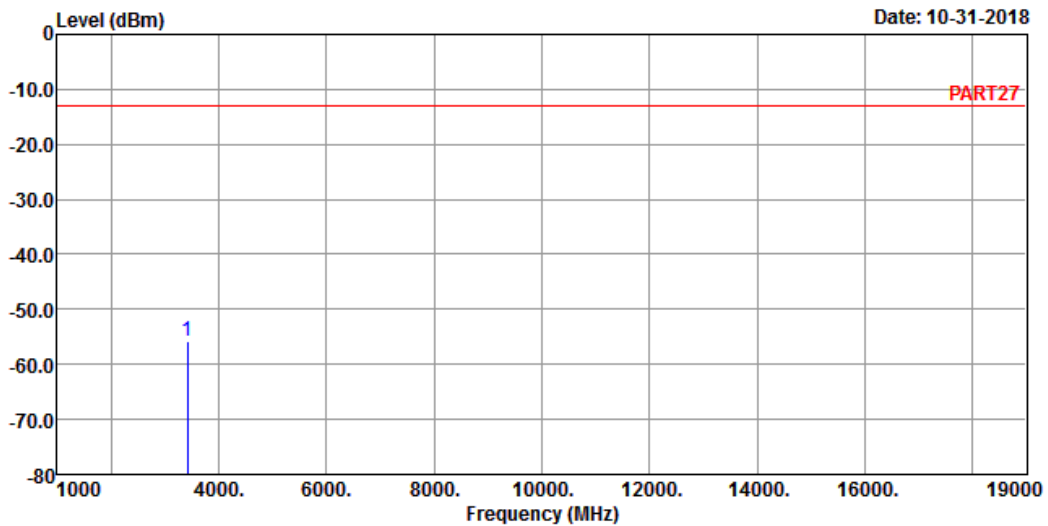
Channel Bandwidth: 5 MHz / QPSK
 Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 66 QPSK_5M Link_L-CH
 Tested by: Thomas Wei

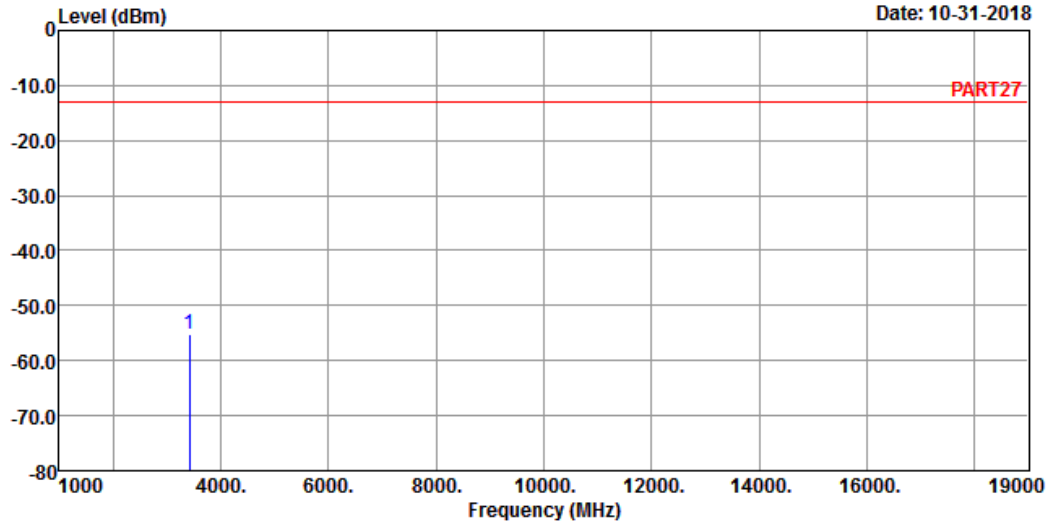
| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3425.00 | -55.83 | -47.49 | -13.00 | -42.83 | -8.34 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 66 QPSK_5M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3425.00 | -55.17 | -46.83 | -13.00 | -42.17 | -8.34 | Peak |

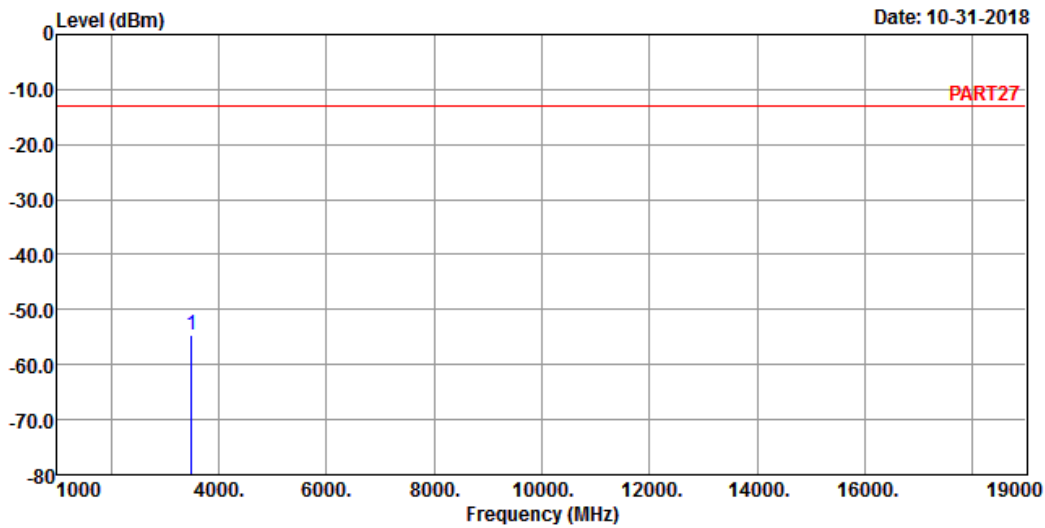
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 66 QPSK_5M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|-------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

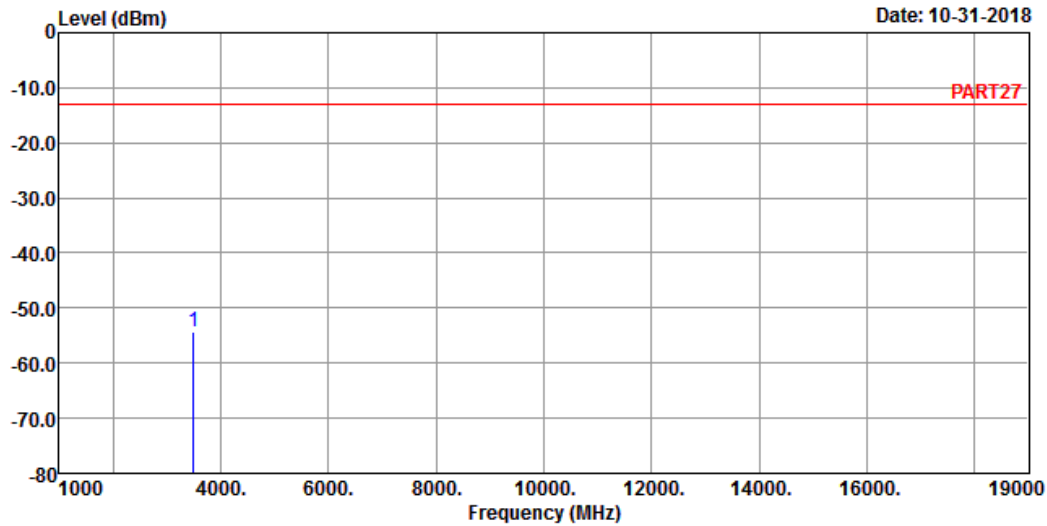
1 pp 3490.00 -54.60 -46.95 -13.00 -41.60 -7.65 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 66 QPSK_5M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3490.00 | -54.46 | -46.81 | -13.00 | -41.46 | -7.65 | Peak |

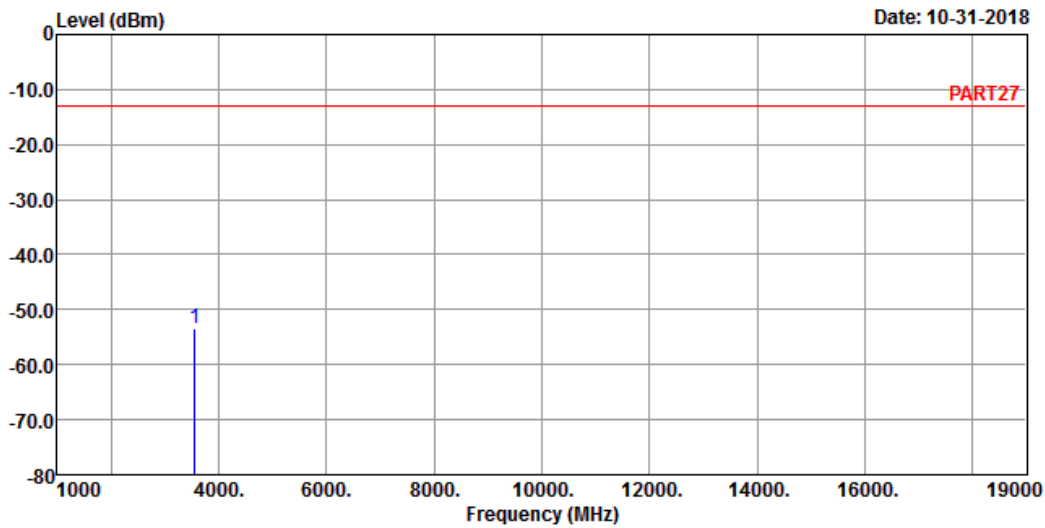
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 66 QPSK_5M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit | Over | Factor | Remark |
|------|-------|------------|-------|------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |

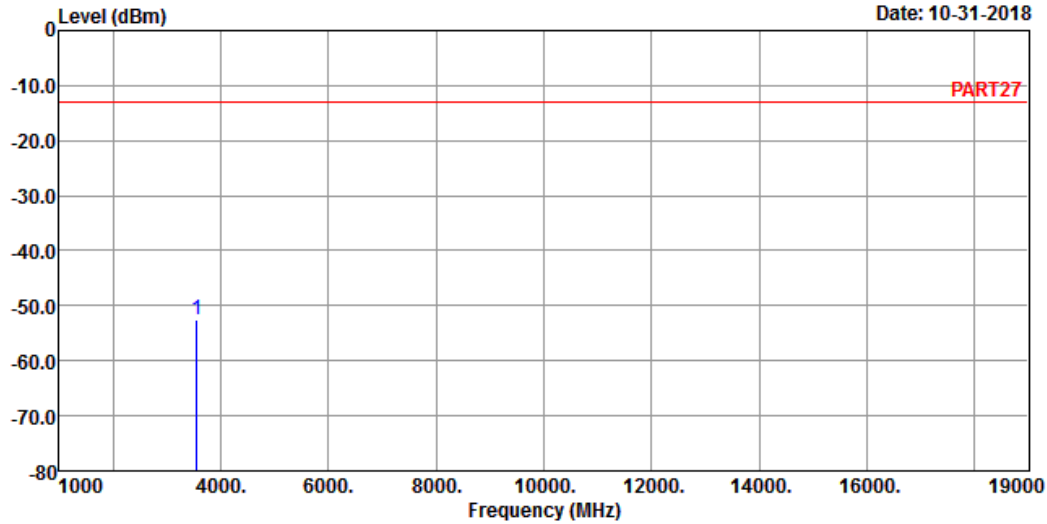
1 pp 3555.00 -53.47 -46.32 -13.00 -40.47 -7.15 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 66 QPSK_5M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3555.00 | -52.69 | -45.54 | -13.00 | -39.69 | -7.15 | Peak |

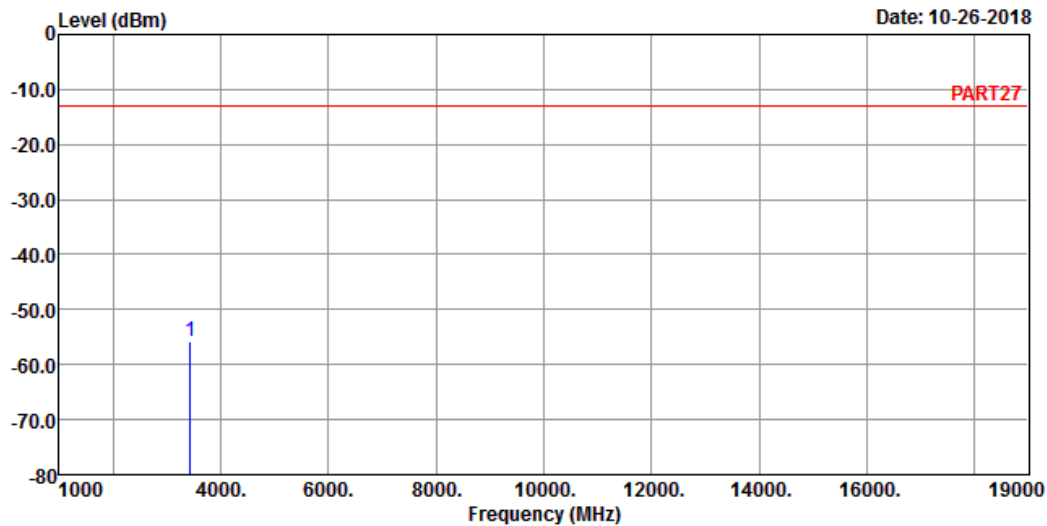
Channel Bandwidth: 20 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 66 QPSK_20M Link_L-CH
Tested by: Thomas Wei

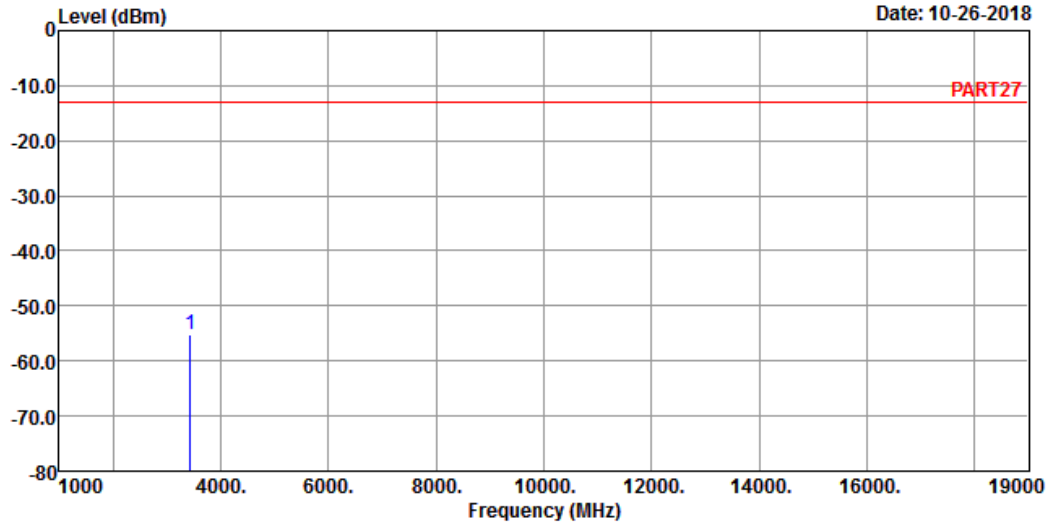
| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3440.00 | -55.71 | -47.49 | -13.00 | -42.71 | -8.22 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 66 QPSK_20M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3440.00 | -55.07 | -46.85 | -13.00 | -42.07 | -8.22 | Peak |

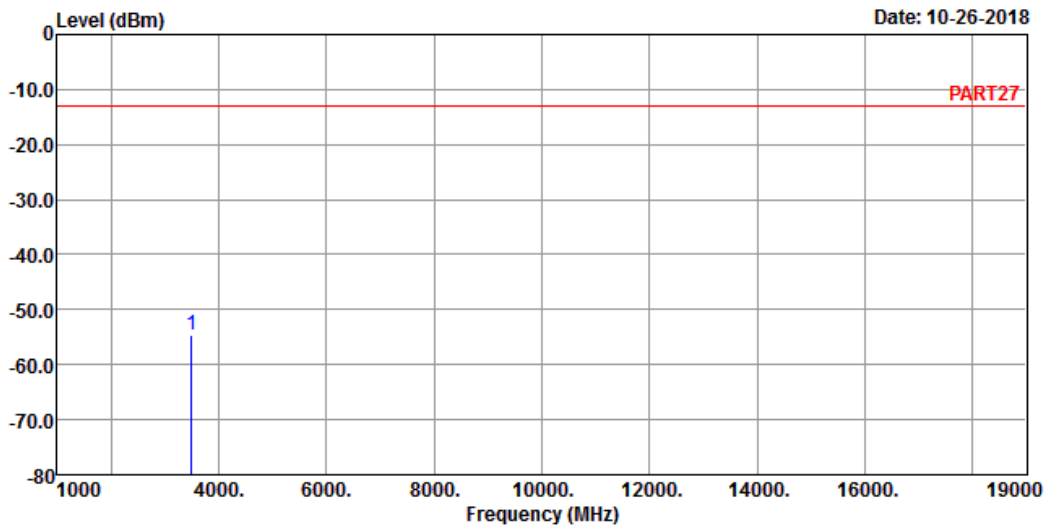
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 66 QPSK_20M Link_M-CH
 Tested by: Thomas Wei

| | Read | Limit | Over | | |
|------|-------|-------|------|-------|--------|
| Freq | Level | Level | Line | Limit | Factor |
| MHz | dBm | dBm | dBm | dB | dB |

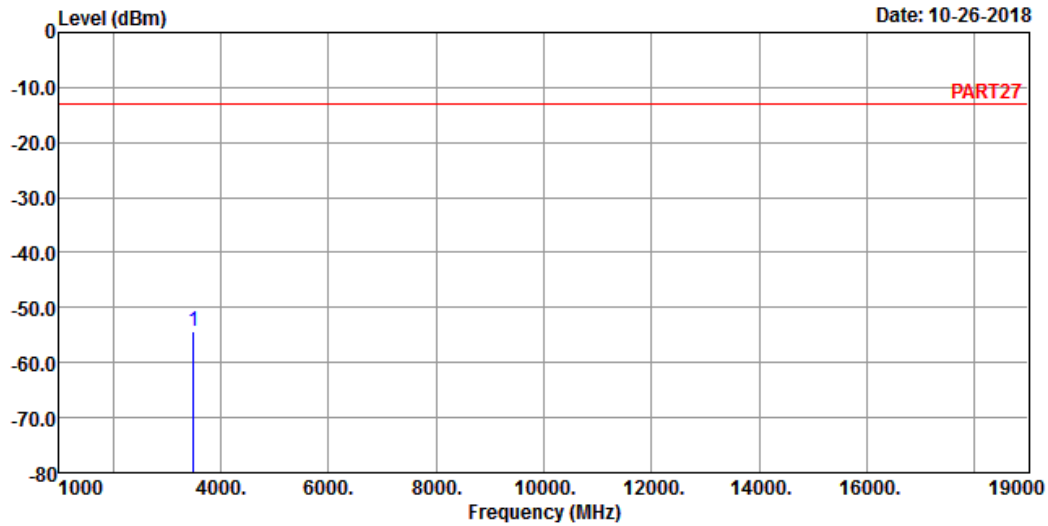
1 pp 3490.00 -54.51 -46.86 -13.00 -41.51 -7.65 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 66 QPSK_20M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3490.00 | -54.32 | -46.67 | -13.00 | -41.32 | -7.65 | Peak |

High Channel

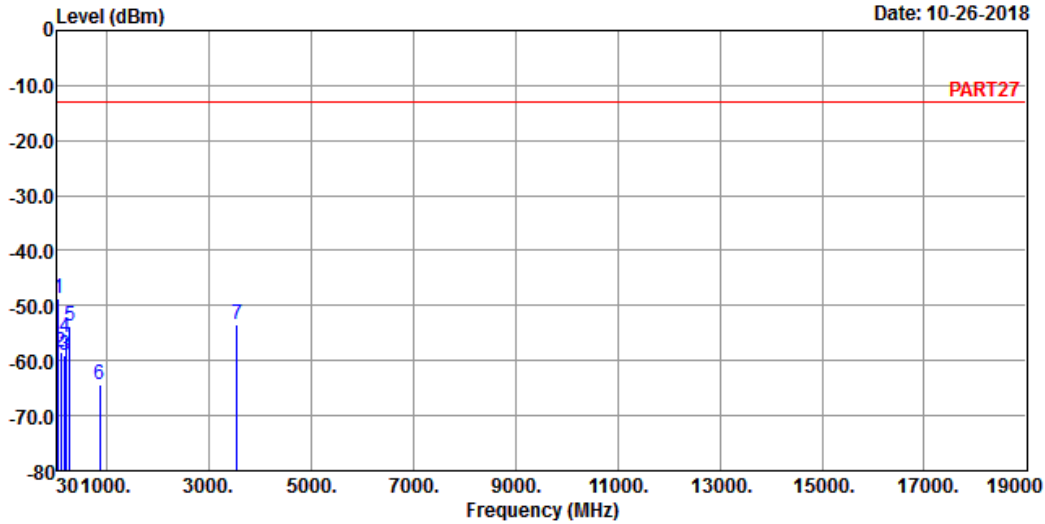


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 10-26-2018



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 66 QPSK_20M Link_H-CH
 Tested by: Thomas Wei

| | Read | Limit | Over | | | | |
|------|---------|--------|--------|--------|--------|--------|------|
| Freq | Level | Level | Line | Limit | Factor | Remark | |
| MHz | dBm | dBm | dBm | dB | dB | | |
| 1 pp | 44.55 | -48.81 | -46.82 | -13.00 | -35.81 | -1.99 | Peak |
| 2 | 95.96 | -58.42 | -47.64 | -13.00 | -45.42 | -10.78 | Peak |
| 3 | 170.65 | -58.90 | -53.20 | -13.00 | -45.90 | -5.70 | Peak |
| 4 | 201.69 | -55.77 | -47.83 | -13.00 | -42.77 | -7.94 | Peak |
| 5 | 272.50 | -53.71 | -47.26 | -13.00 | -40.71 | -6.45 | Peak |
| 6 | 869.05 | -64.21 | -64.61 | -13.00 | -51.21 | 0.40 | Peak |
| 7 | 3540.00 | -53.32 | -46.10 | -13.00 | -40.32 | -7.22 | Peak |

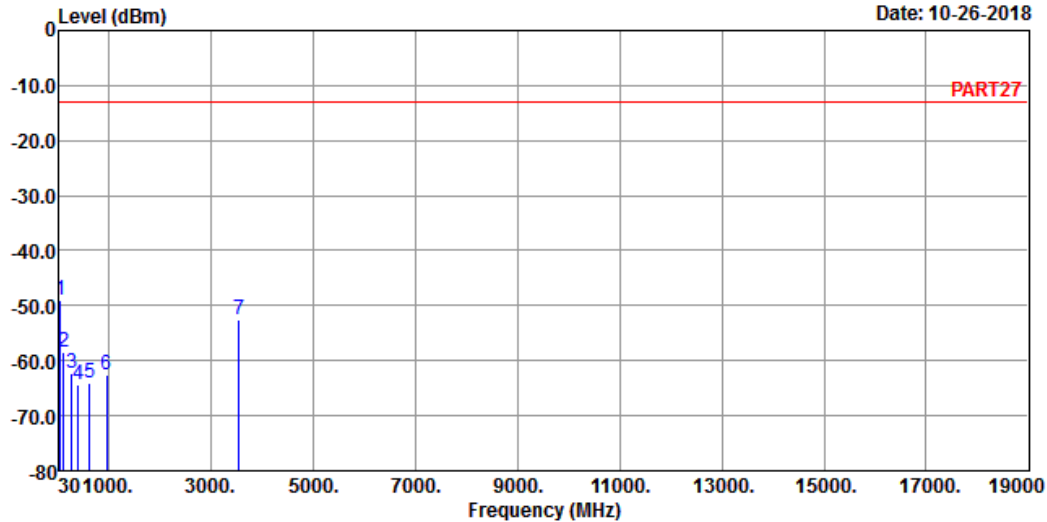


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 10-26-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : LTE Band 66 QPSK_20M Link_H-CH
 Tested by: Thomas Wei

| | Read | Limit | Over | | | |
|------|---------|--------|--------|--------|--------|-------------|
| Freq | Level | Level | Line | Limit | Factor | Remark |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp | 44.55 | -48.94 | -46.95 | -13.00 | -35.94 | -1.99 Peak |
| 2 | 114.39 | -58.57 | -48.46 | -13.00 | -45.57 | -10.11 Peak |
| 3 | 271.53 | -62.35 | -55.92 | -13.00 | -49.35 | -6.43 Peak |
| 4 | 400.54 | -64.22 | -58.28 | -13.00 | -51.22 | -5.94 Peak |
| 5 | 627.52 | -64.20 | -63.37 | -13.00 | -51.20 | -0.83 Peak |
| 6 | 953.44 | -62.52 | -64.46 | -13.00 | -49.52 | 1.94 Peak |
| 7 | 3540.00 | -52.61 | -45.39 | -13.00 | -39.61 | -7.22 Peak |

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

--- END ---