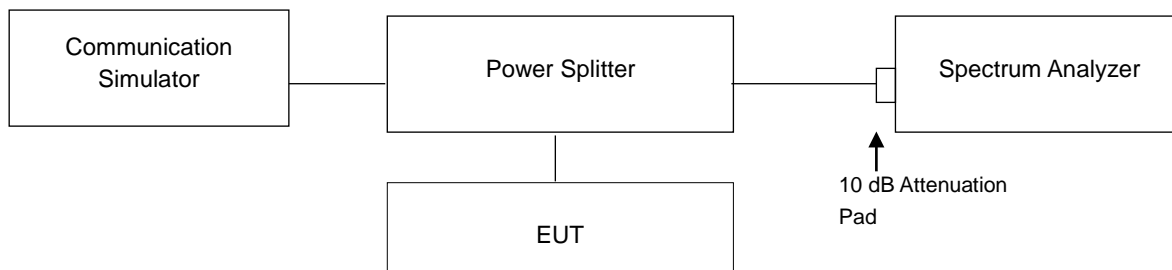


4.6 Peak to Average Ratio

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



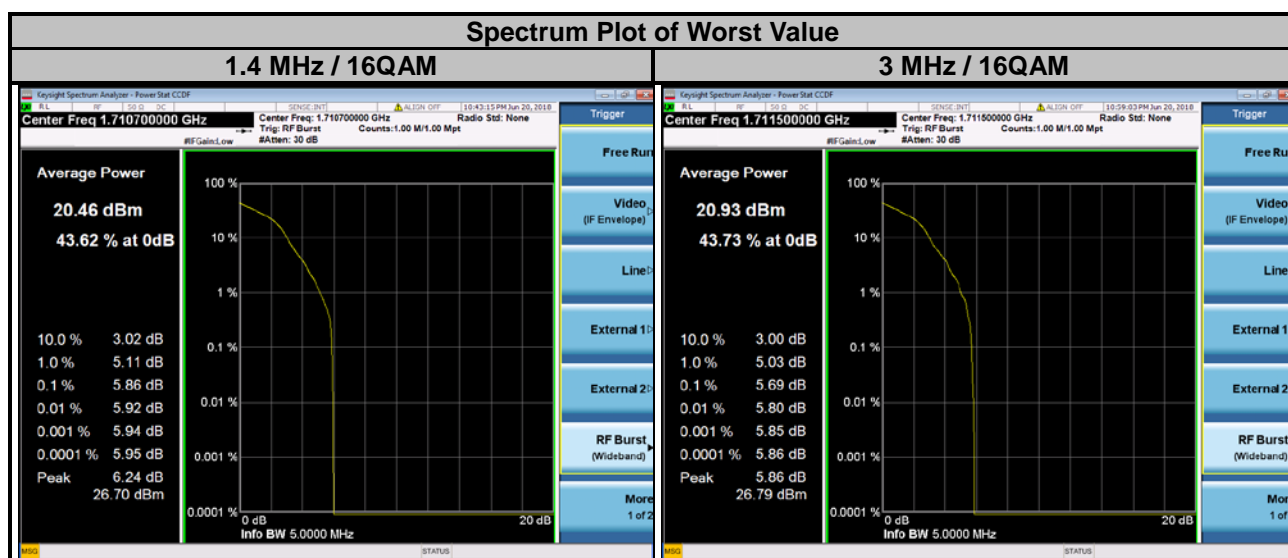
4.6.3 Test Procedures

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 %.

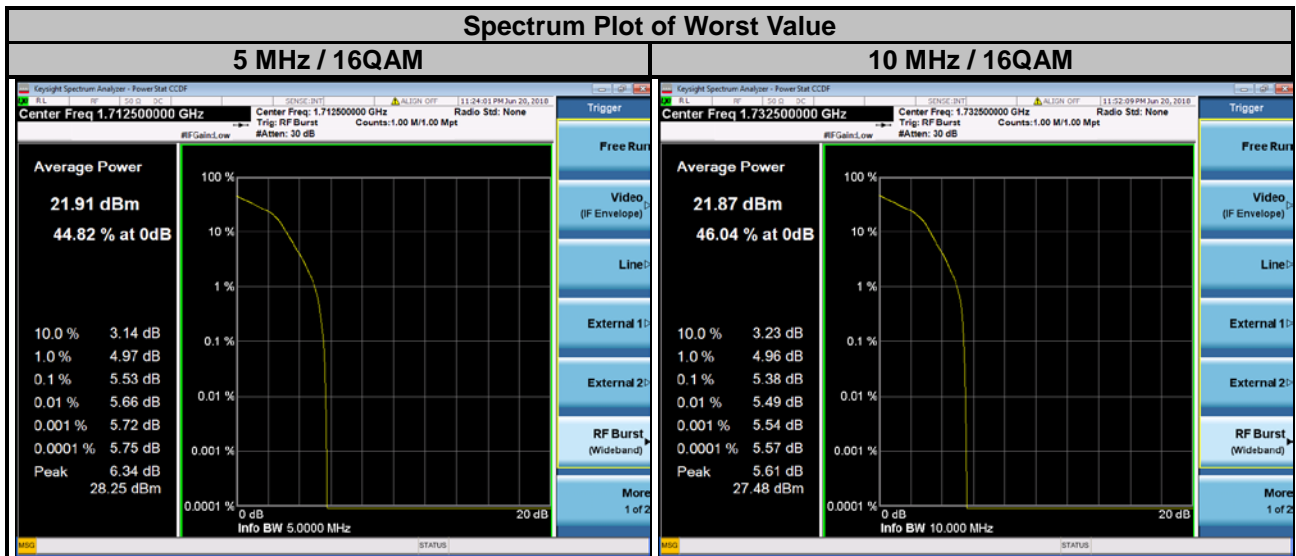
4.6.4 Test Results

Cat-M1

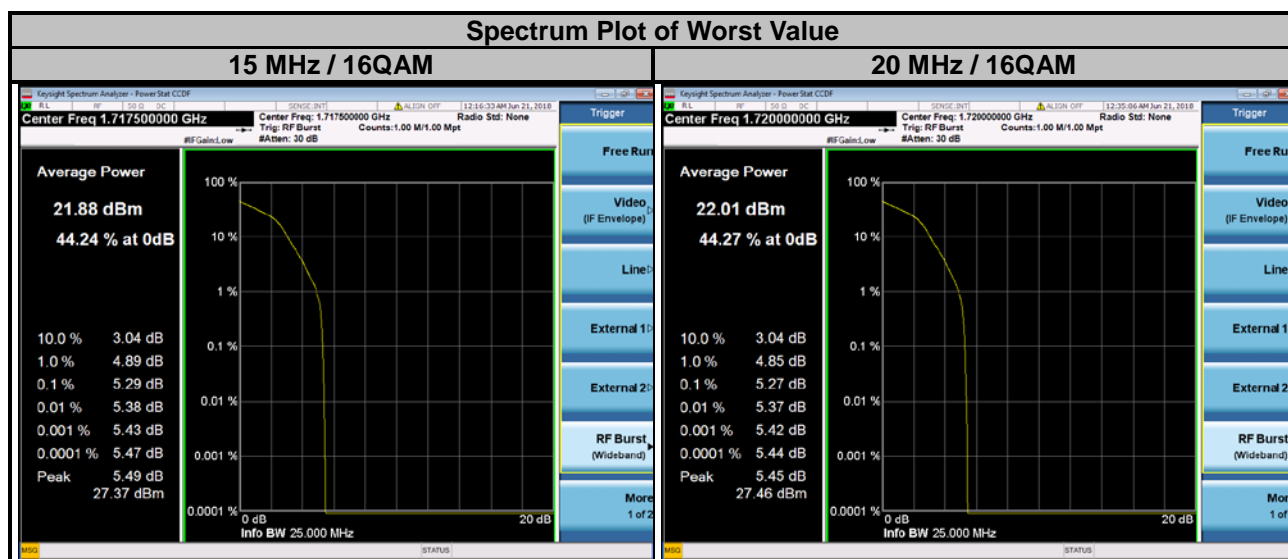
| LTE Band 4 | | | | | | | |
|----------------------------|-----------------|----------------------------|-------|--------------------------|-----------------|----------------------------|-------|
| Channel Bandwidth: 1.4 MHz | | | | Channel Bandwidth: 3 MHz | | | |
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 19957 | 1710.7 | 4.92 | 5.86 | 19965 | 1711.5 | 4.81 | 5.69 |
| 20175 | 1732.5 | 4.70 | 5.55 | 20175 | 1732.5 | 4.69 | 5.55 |
| 20393 | 1754.3 | 4.62 | 5.43 | 20385 | 1753.5 | 4.53 | 5.39 |



| 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 | | | QPSK | 16QAM |
| 19975 | 1712.5 | 4.87 | 5.53 | 20000 | 1715.0 | 4.78 | 5.34 |
| 20175 | 1732.5 | 4.72 | 5.27 | 20175 | 1732.5 | 4.67 | 5.38 |
| 20375 | 1752.5 | 4.53 | 5.05 | 20350 | 1750.0 | 4.46 | 4.92 |



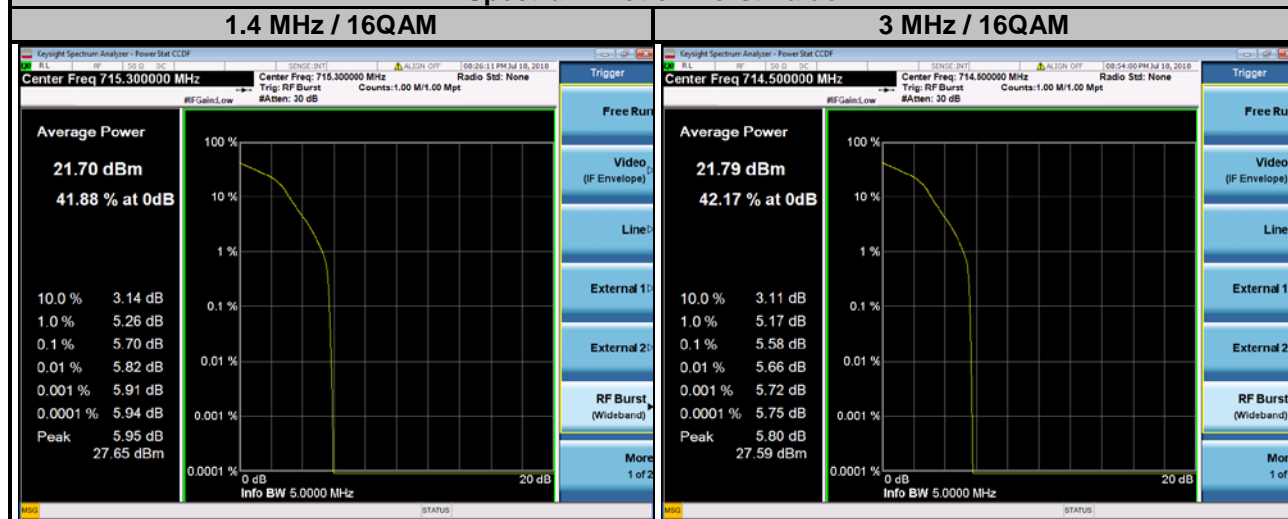
| LTE Band 4 | | | | | | | |
|---------------------------|-----------------|----------------------------|-------|---------------------------|-----------------|----------------------------|-------|
| Channel Bandwidth: 15 MHz | | | | Channel Bandwidth: 20 MHz | | | |
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 20025 | 1717.5 | 4.73 | 5.29 | 20050 | 1720.0 | 4.74 | 5.27 |
| 20175 | 1732.5 | 4.65 | 5.11 | 20175 | 1732.5 | 4.70 | 5.06 |
| 20325 | 1747.5 | 4.49 | 4.95 | 20300 | 1745.0 | 4.51 | 5.09 |



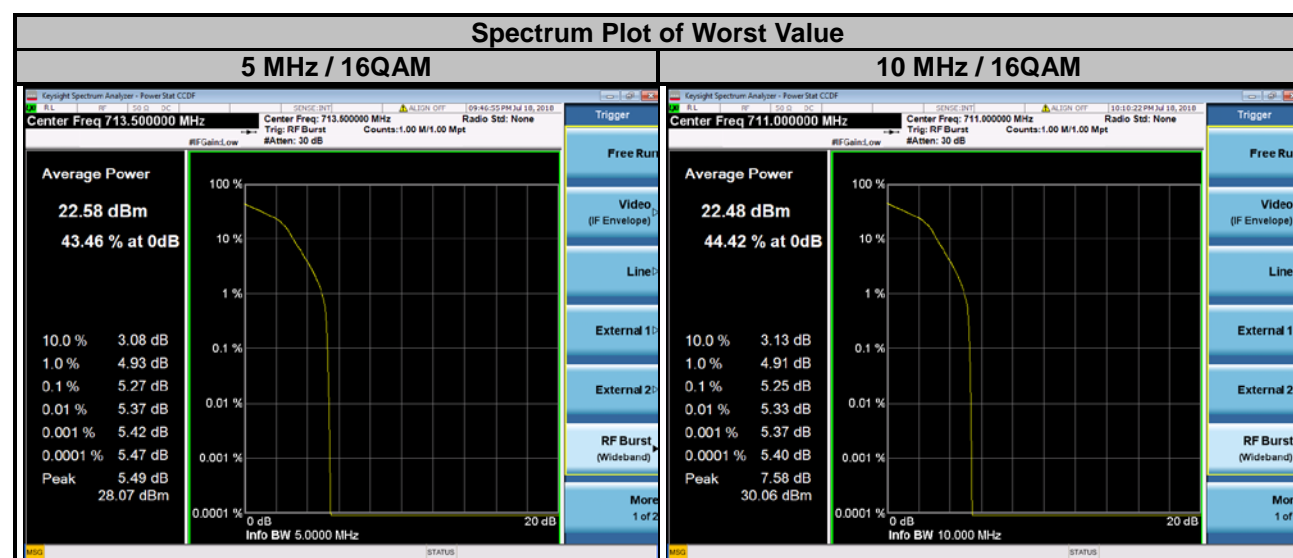
LTE Band 12

| 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 | | | QPSK | 16QAM |
| 23017 | 699.7 | 4.55 | 5.52 | 23025 | 700.5 | 4.49 | 5.51 |
| 23095 | 707.5 | 4.62 | 5.64 | 23095 | 707.5 | 4.49 | 5.54 |
| 23173 | 715.3 | 4.61 | 5.70 | 23165 | 714.5 | 4.60 | 5.58 |

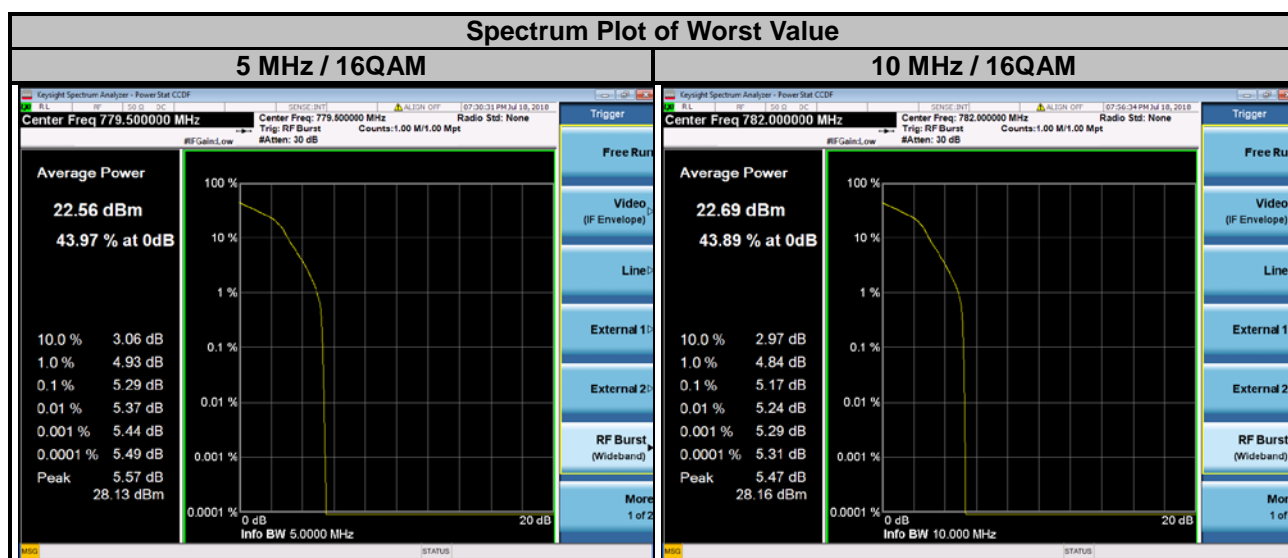
Spectrum Plot of Worst Value



| 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 | | | QPSK | 16QAM |
| 23035 | 701.5 | 4.52 | 5.02 | 23060 | 704.0 | 4.44 | 4.95 |
| 23095 | 707.5 | 4.54 | 5.22 | 23095 | 707.5 | 4.47 | 5.10 |
| 23155 | 713.5 | 4.65 | 5.27 | 23130 | 711.0 | 4.50 | 5.25 |

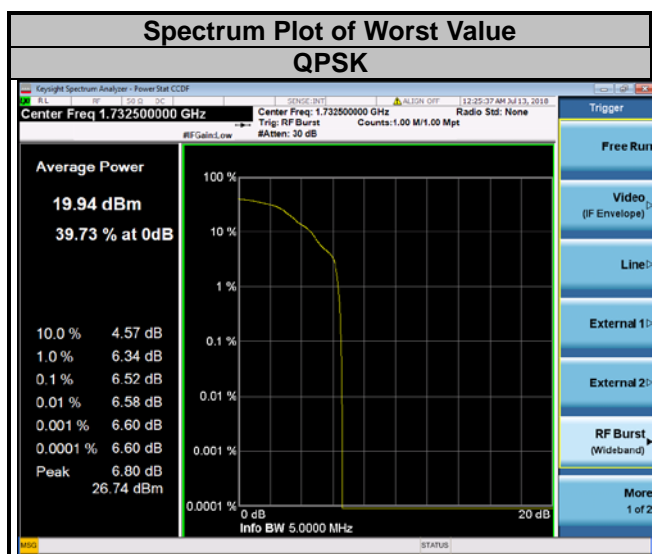


| LTE Band 13 | | | | | | | |
|--------------------------|-----------------|----------------------------|-------|---------------------------|-----------------|----------------------------|-------|
| Channel Bandwidth: 5 MHz | | | | Channel Bandwidth: 10 MHz | | | |
| Channel | Frequency (MHz) | Peak to Average Ratio (dB) | | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 23205 | 779.5 | 4.60 | 5.29 | 23230 | 782.0 | 4.50 | 5.17 |
| 23230 | 782.0 | 4.60 | 5.26 | | | | |
| 23255 | 784.5 | 4.60 | 5.28 | | | | |



NB-IOT

| Peak to Average Ratio (dB) | | | | | |
|----------------------------|-----------------|------------|---------------------------|------|-------|
| LTE Band 4 | | | | | |
| Channel | Frequency (MHz) | Modulation | Sub-carrier spacing (kHz) | CCDF | Limit |
| 20175 | 1732.5 | BPSK | 3.75 | 1.89 | 13.00 |
| 20175 | 1732.5 | QPSK | 15 | 1.76 | |
| 20175 | 1732.5 | QPSK | 15 | 6.52 | |



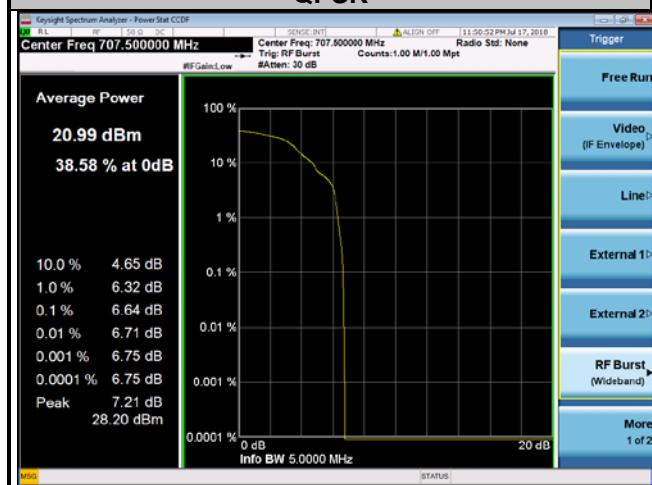
Peak to Average Ratio (dB)

LTE Band 12

| Channel | Frequency (MHz) | Modulation | Sub-carrier spacing (kHz) | CCDF | Limit |
|---------|-----------------|------------|---------------------------|------|-------|
| 23095 | 707.5 | BPSK | 3.75 | 1.80 | 13.00 |
| 23095 | 707.5 | QPSK | 15 | 1.63 | |
| 23095 | 707.5 | QPSK | 15 | 6.64 | |

Spectrum Plot of Worst Value

QPSK



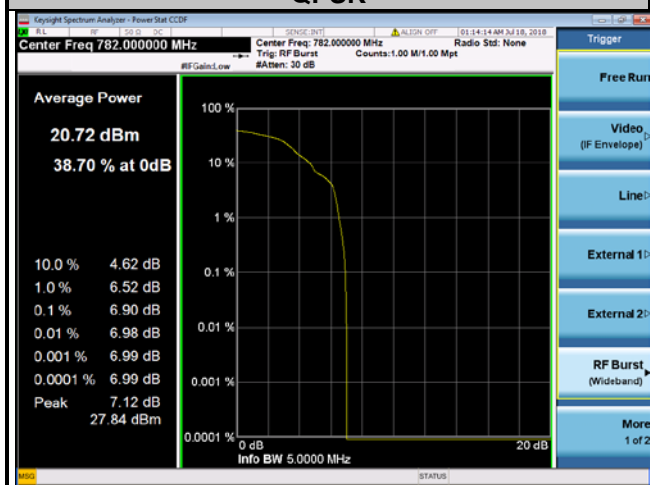
Peak to Average Ratio (dB)

LTE Band 13

| Channel | Frequency (MHz) | Modulation | Sub-carrier spacing (kHz) | CCDF | Limit |
|---------|-----------------|------------|---------------------------|------|-------|
| 23230 | 782 | BPSK | 3.75 | 1.96 | 13.00 |
| 23230 | 782 | QPSK | 15 | 3.12 | |
| 23230 | 782 | QPSK | 15 | 6.90 | |

Spectrum Plot of Worst Value

QPSK

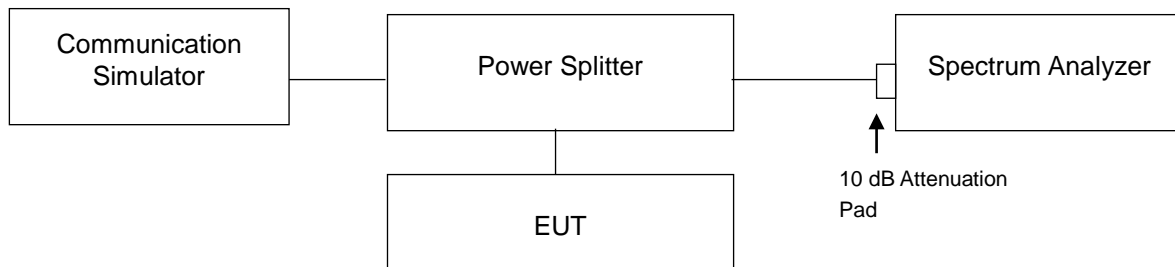


4.7 Conducted Spurious Emissions

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

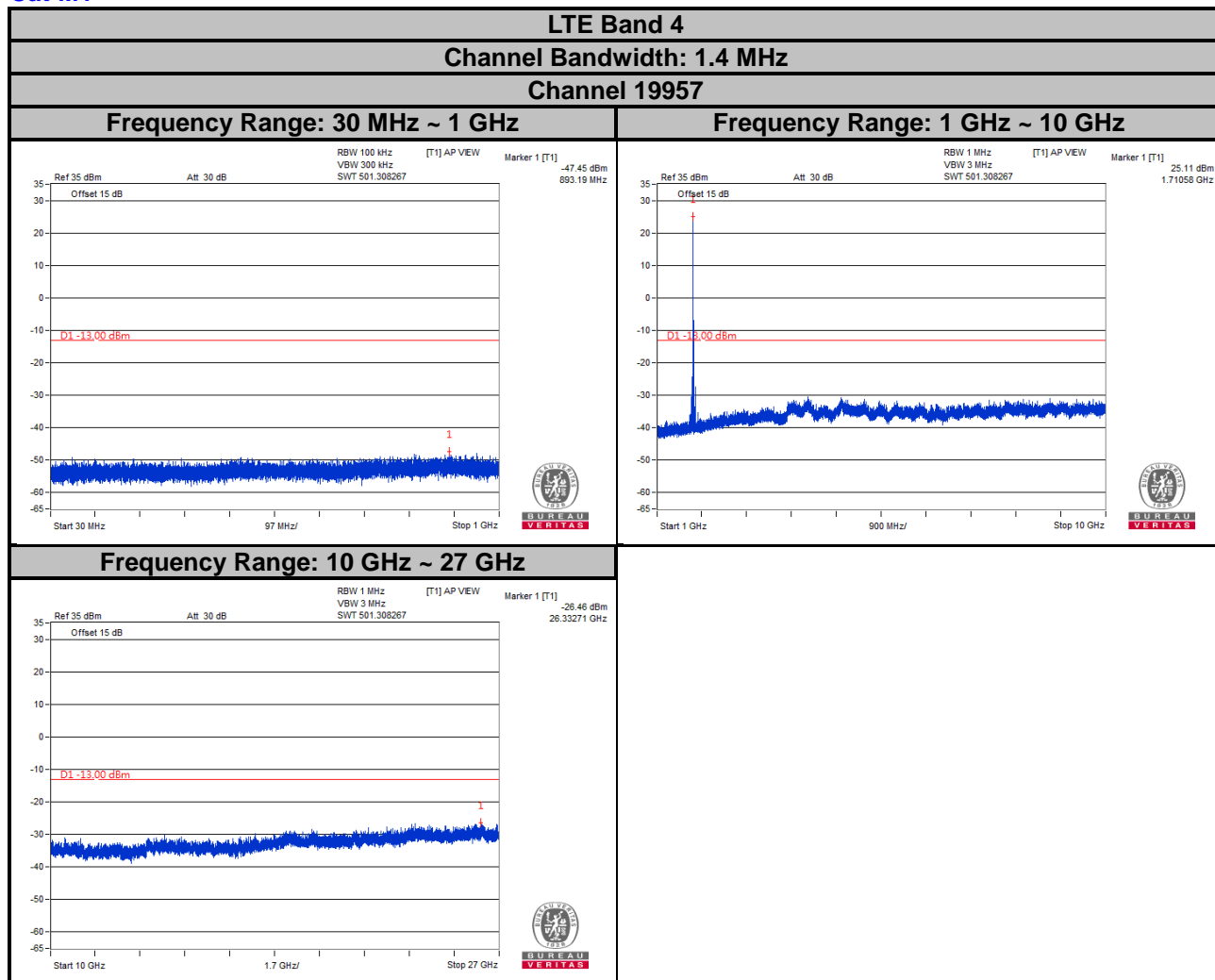


4.7.3 Test Procedure

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- For LTE B4, measuring frequency range is from 30 MHz to 27 GHz. 20 dB attenuation pad is connected with spectrum. RBW = 100 kHz and VBW = 300 kHz is used for conducted emission measurement.
- For LTE B12/13, measuring frequency range is from 30 MHz to 1 GHz. 20 dB attenuation pad is connected with spectrum. RBW = 100 kHz and VBW = 300 kHz is used for conducted emission measurement.

4.7.4 Test Results

Cat-M1

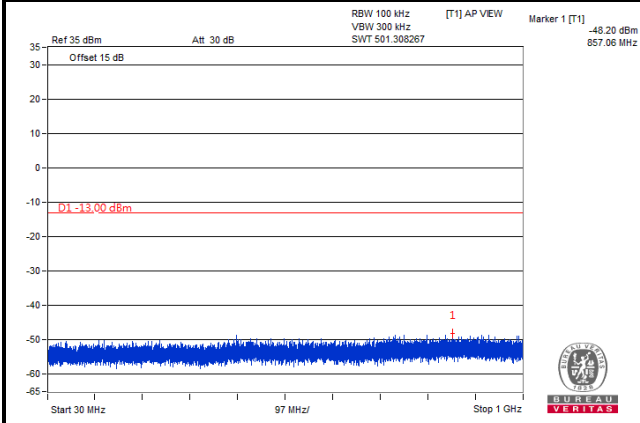


LTE Band 4

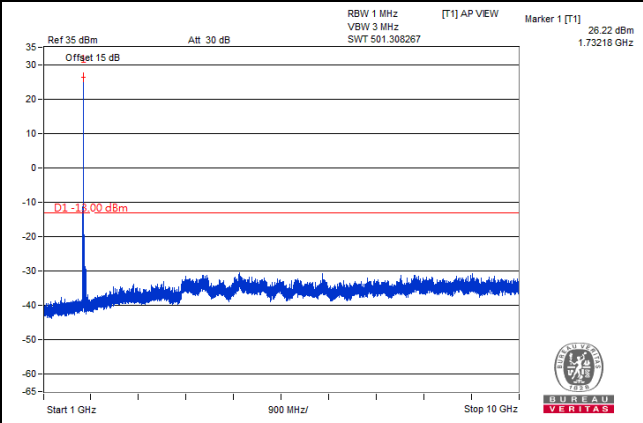
Channel Bandwidth: 1.4 MHz

Channel 20175

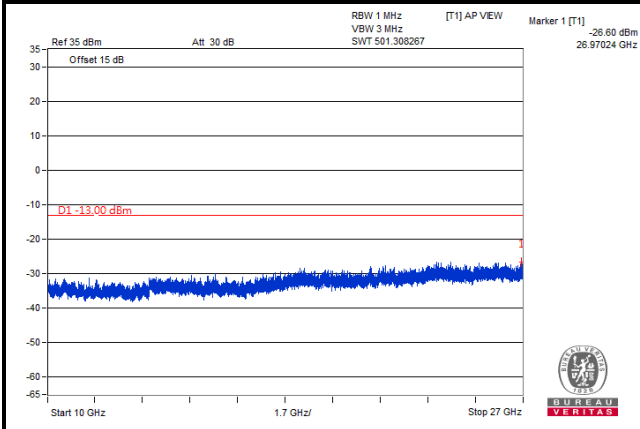
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

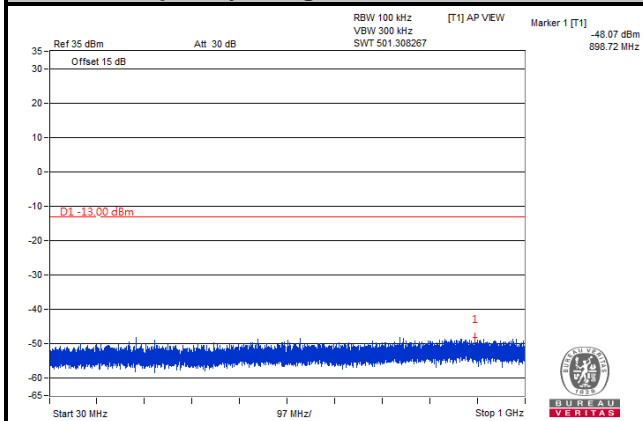


LTE Band 4

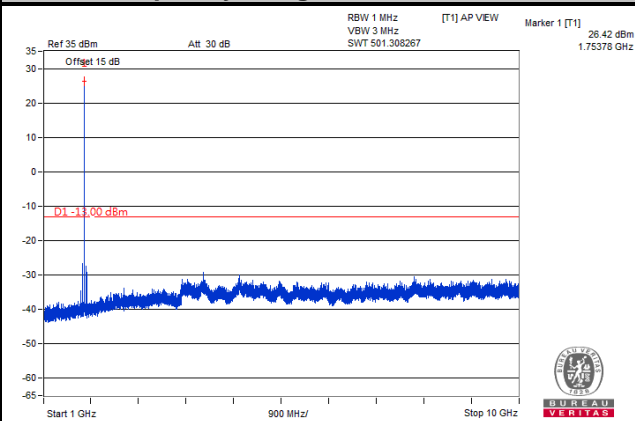
Channel Bandwidth: 1.4 MHz

Channel 20393

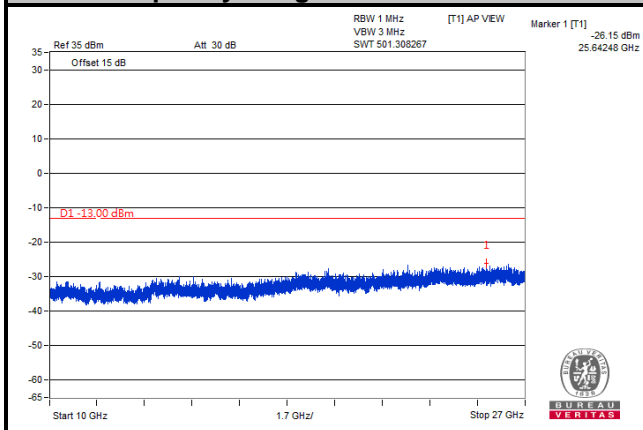
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



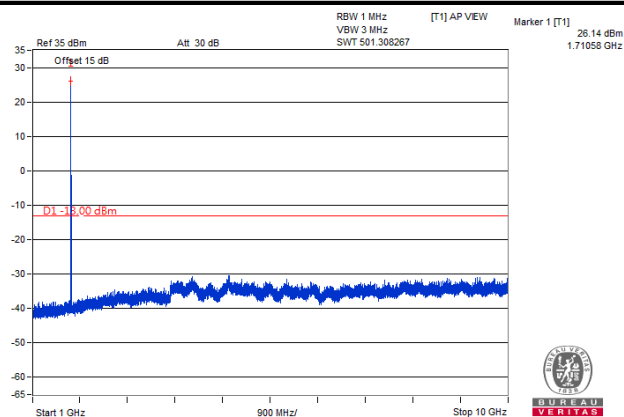
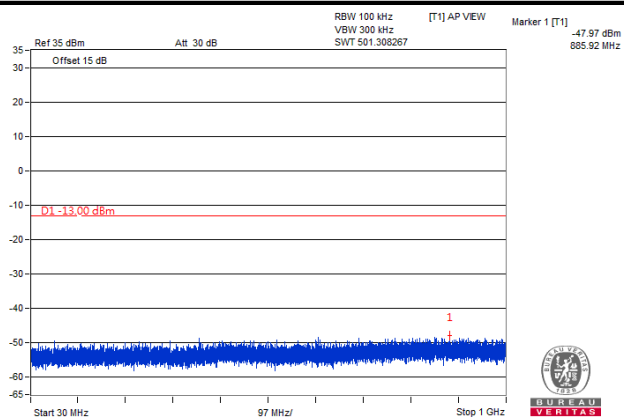
LTE Band 4

Channel Bandwidth: 3 MHz

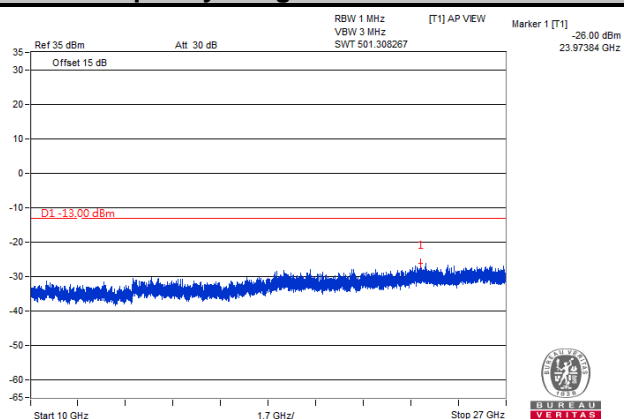
Channel 19965

Frequency Range: 30 MHz ~ 1 GHz

Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

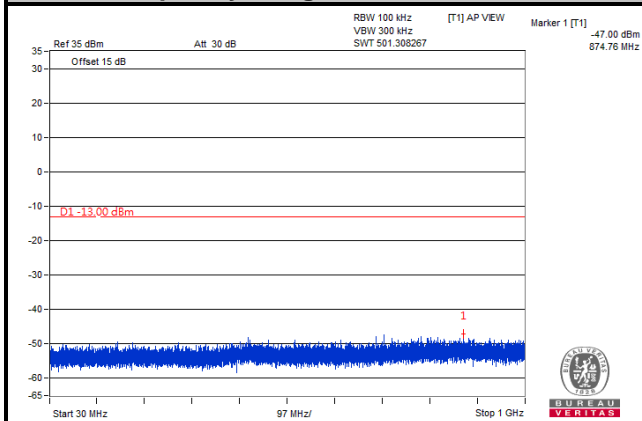


LTE Band 4

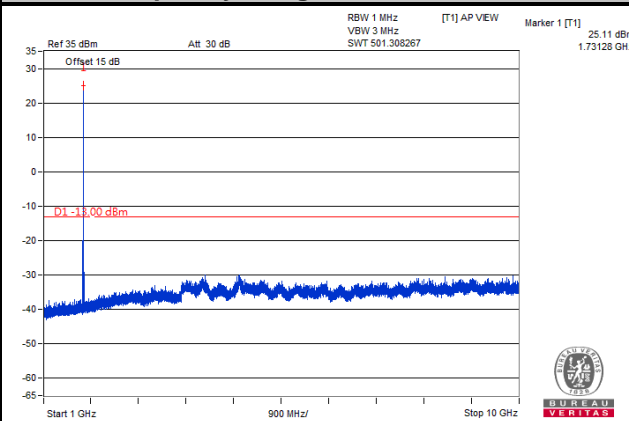
Channel Bandwidth: 3 MHz

Channel 20175

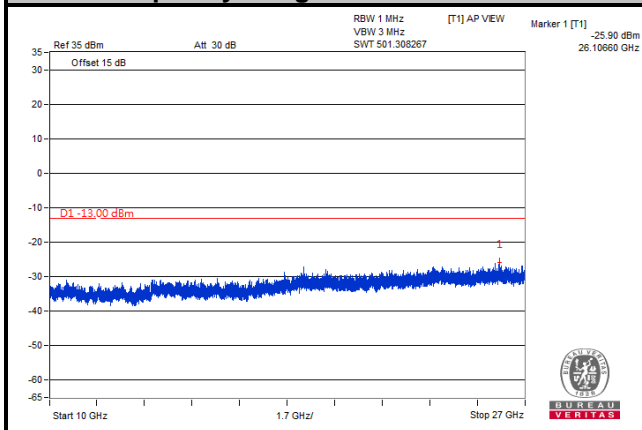
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

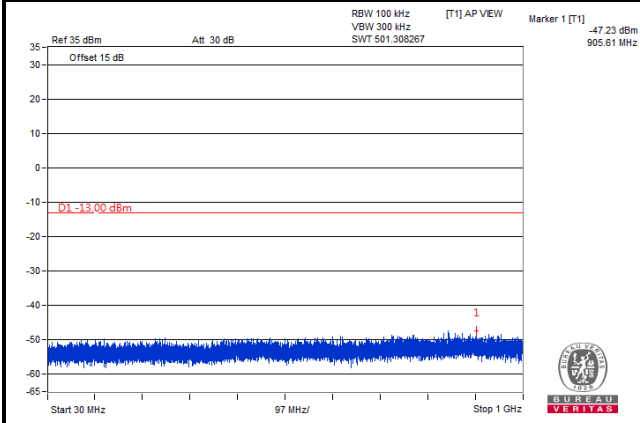


LTE Band 4

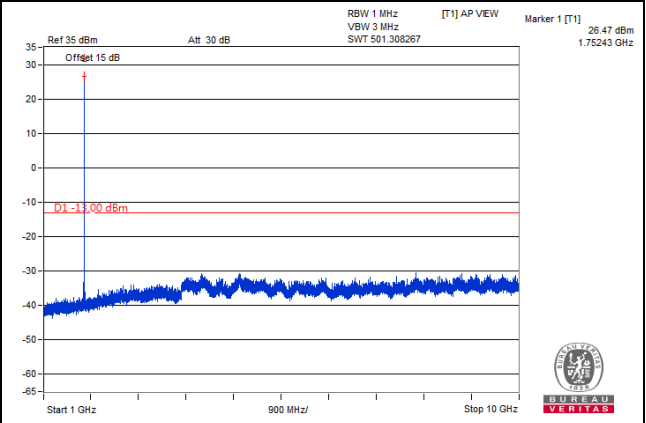
Channel Bandwidth: 3 MHz

Channel 20385

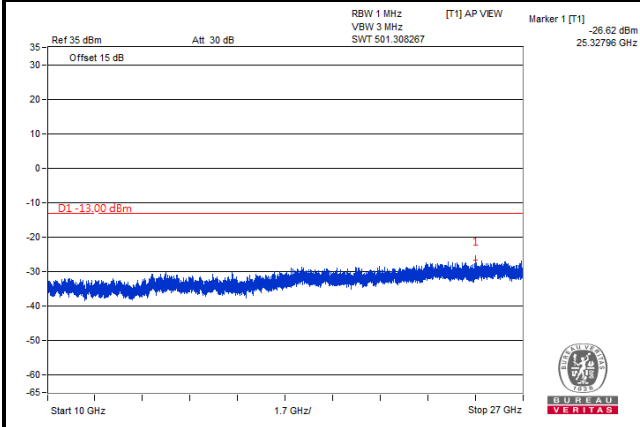
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



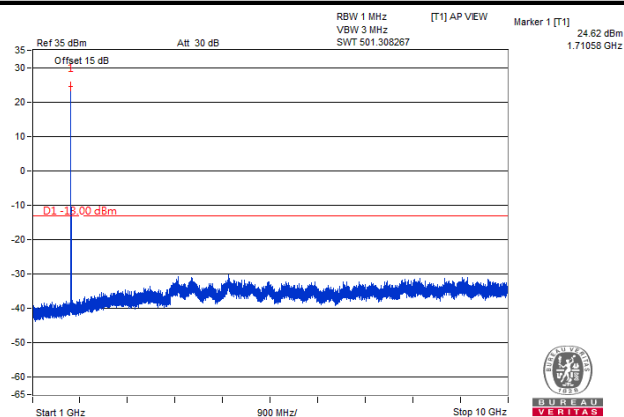
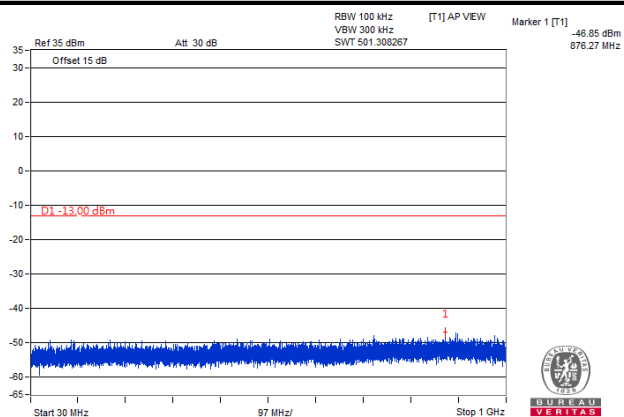
LTE Band 4

Channel Bandwidth: 5 MHz

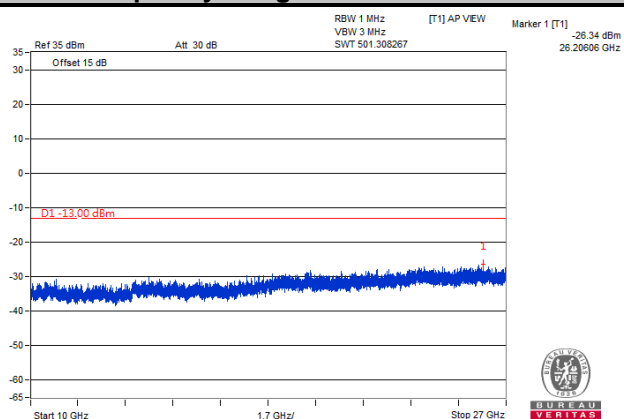
Channel 19975

Frequency Range: 30 MHz ~ 1 GHz

Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

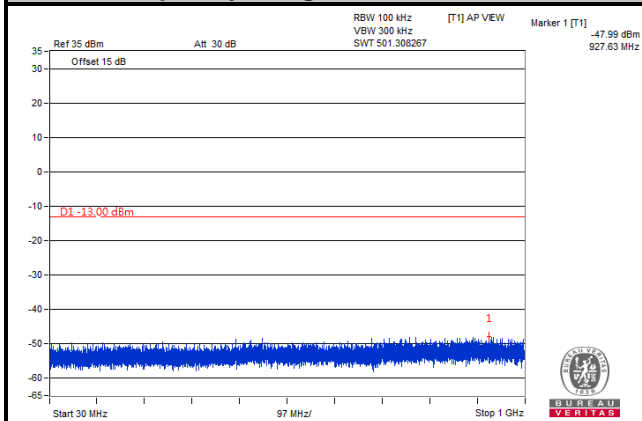


LTE Band 4

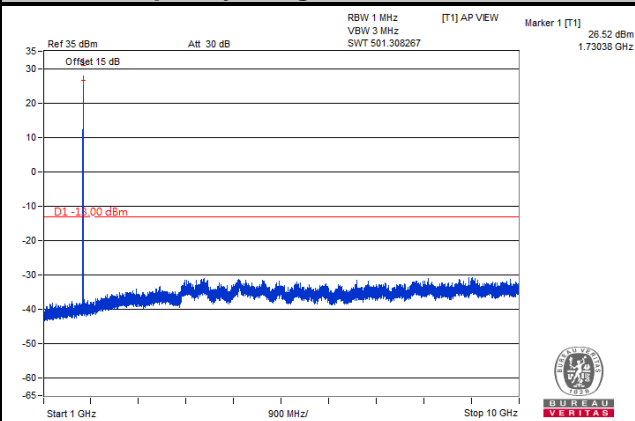
Channel Bandwidth: 5 MHz

Channel 20175

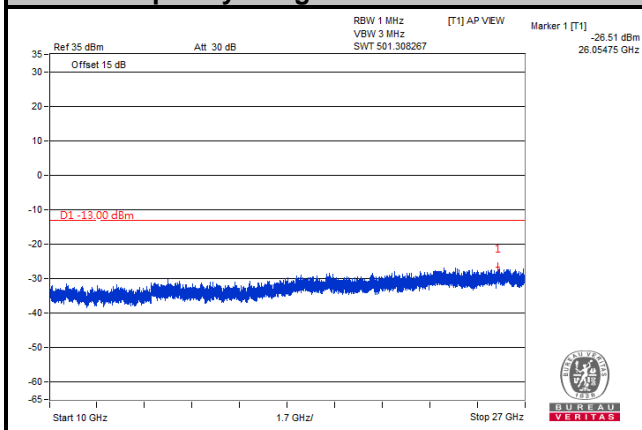
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

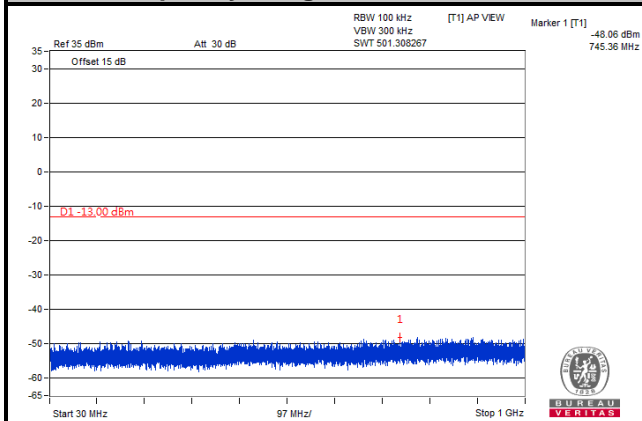


LTE Band 4

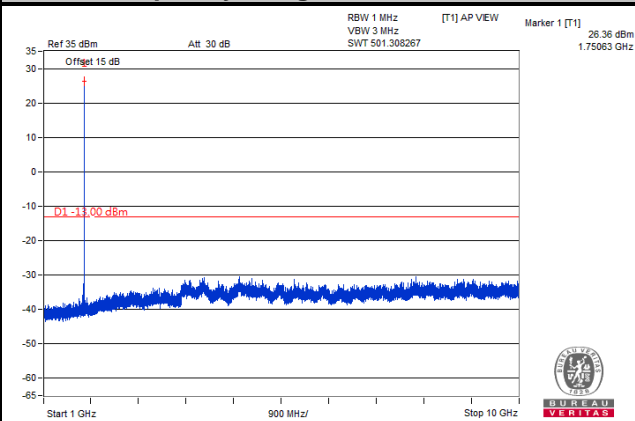
Channel Bandwidth: 5 MHz

Channel 20375

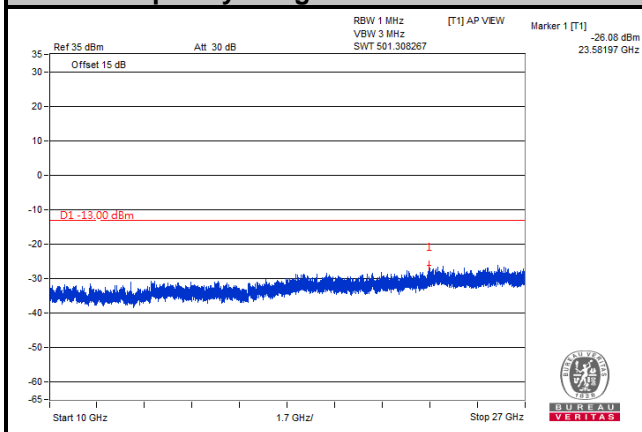
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



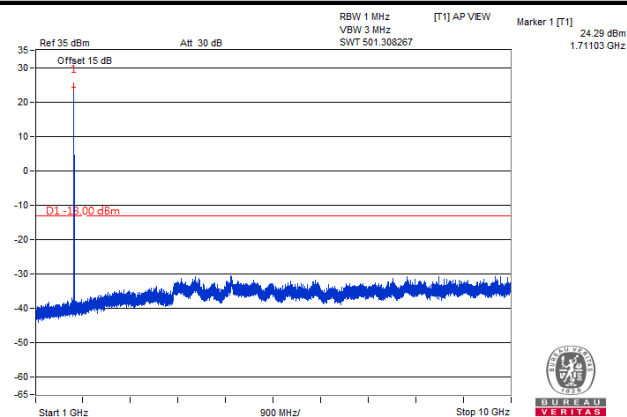
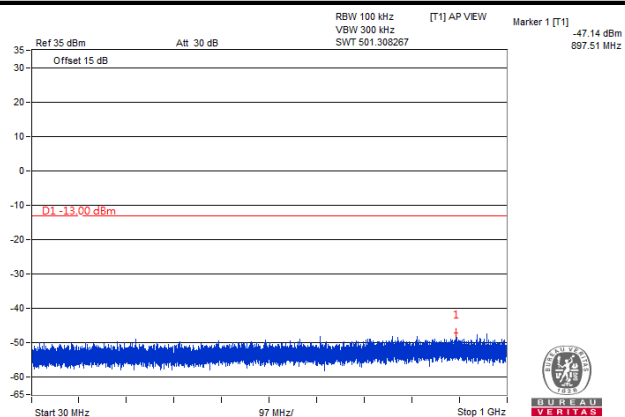
LTE Band 4

Channel Bandwidth: 10 MHz

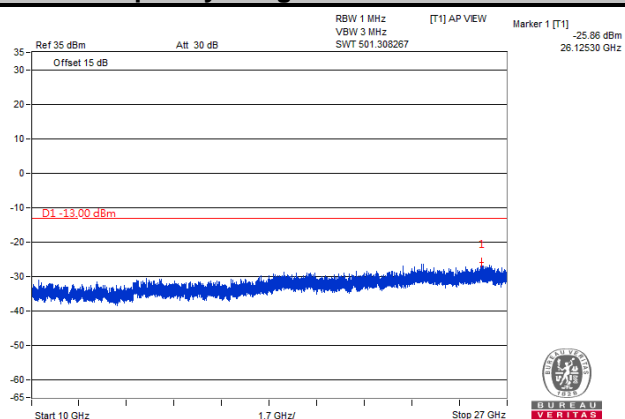
Channel 20000

Frequency Range: 30 MHz ~ 1 GHz

Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

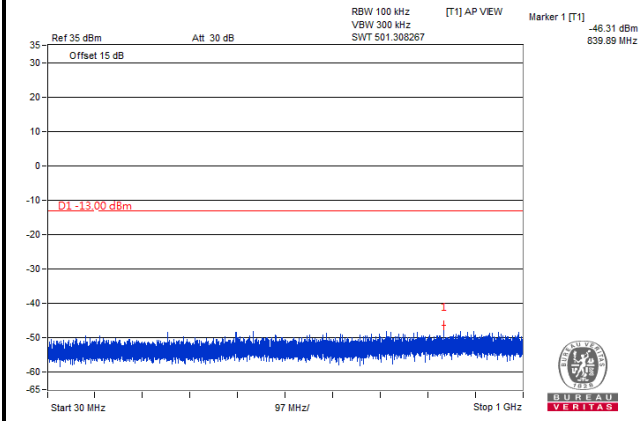


LTE Band 4

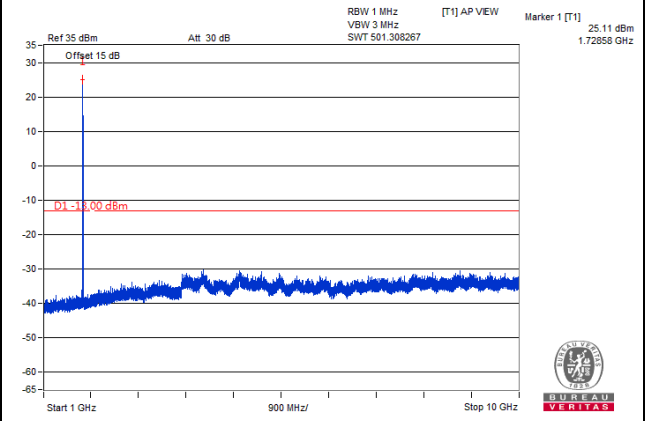
Channel Bandwidth: 10 MHz

Channel 20175

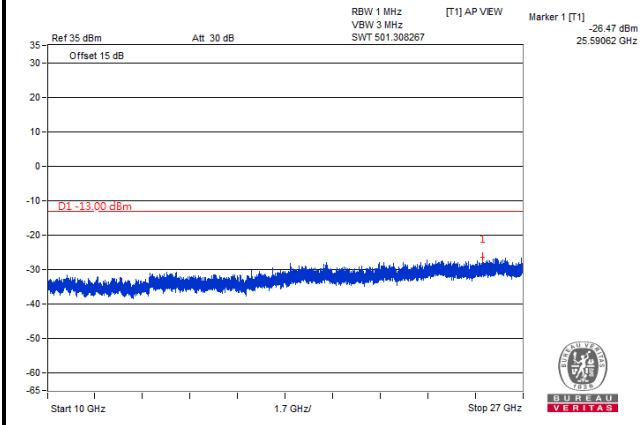
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

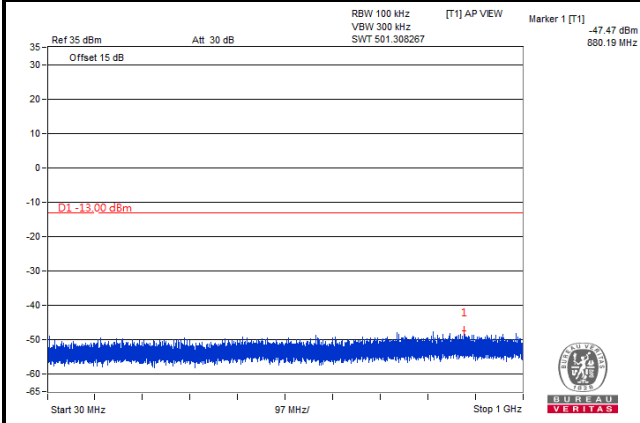


LTE Band 4

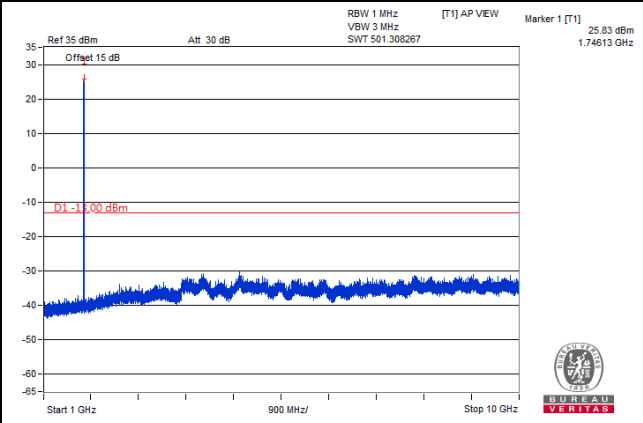
Channel Bandwidth: 10 MHz

Channel 20350

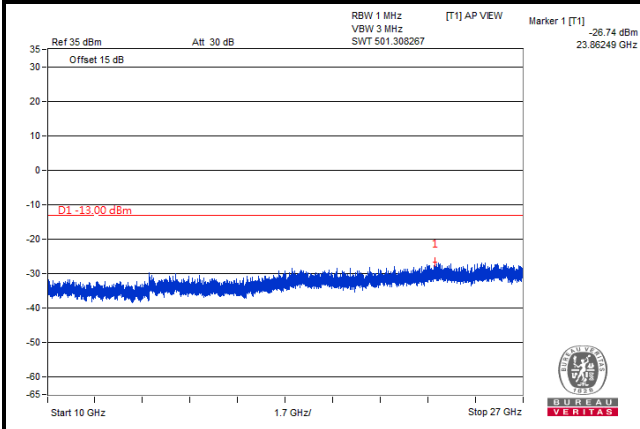
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



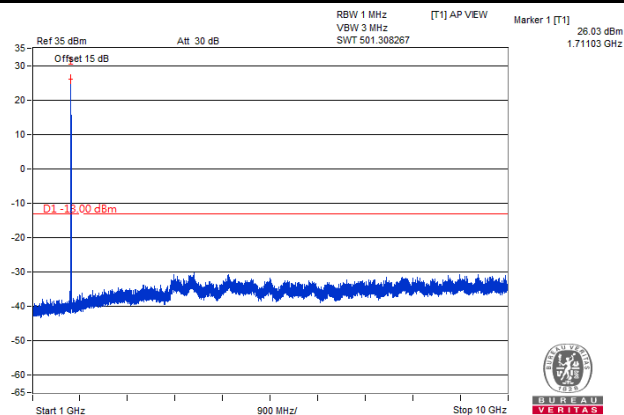
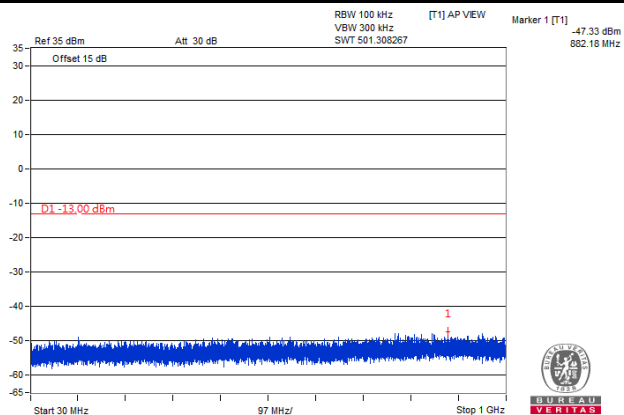
LTE Band 4

Channel Bandwidth: 15 MHz

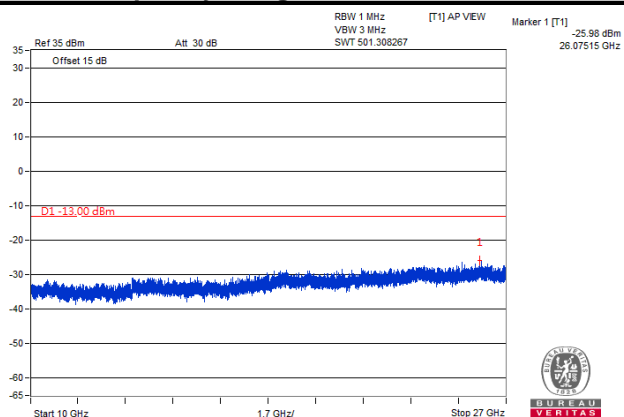
Channel 20025

Frequency Range: 30 MHz ~ 1 GHz

Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

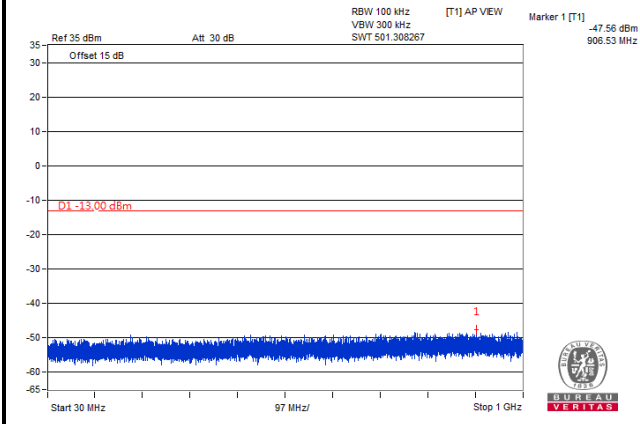


LTE Band 4

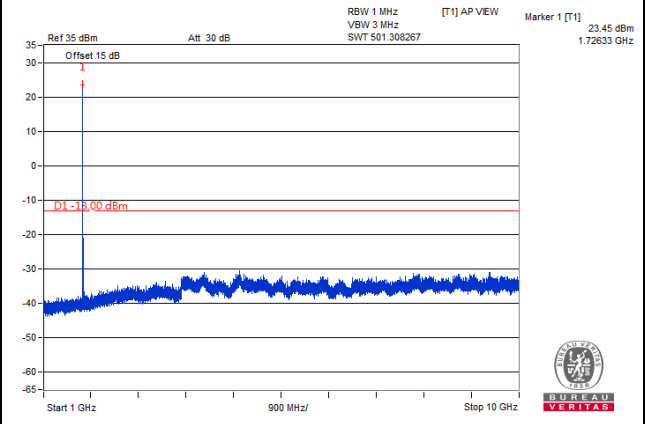
Channel Bandwidth: 15 MHz

Channel 20175

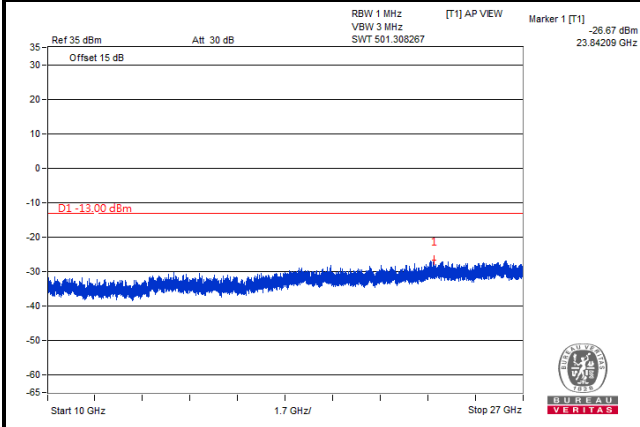
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

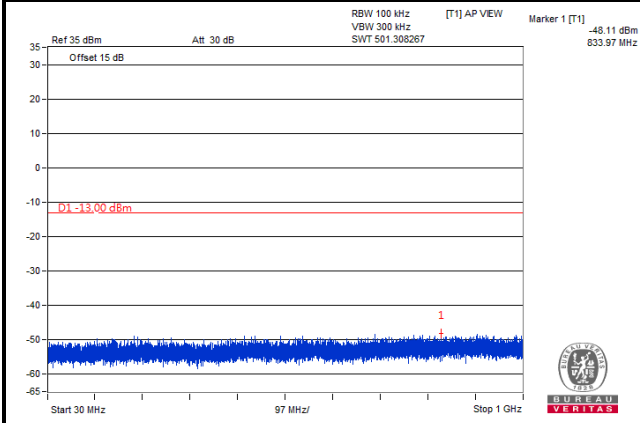


LTE Band 4

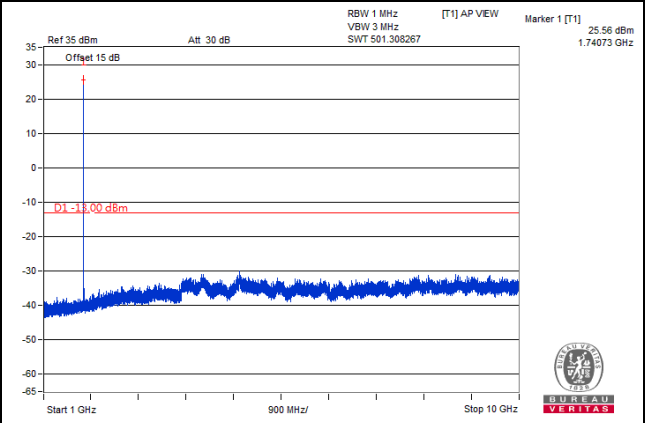
Channel Bandwidth: 15 MHz

Channel 20325

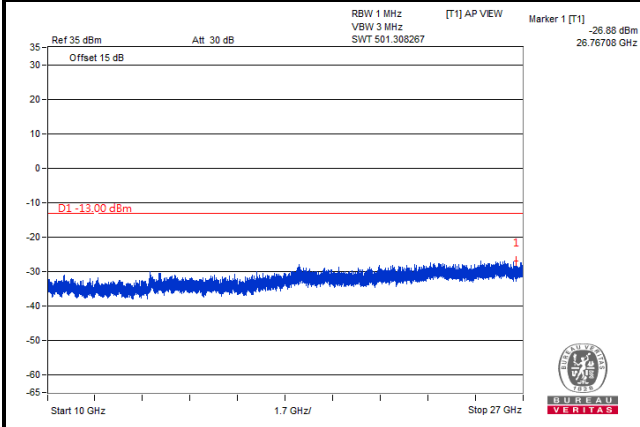
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



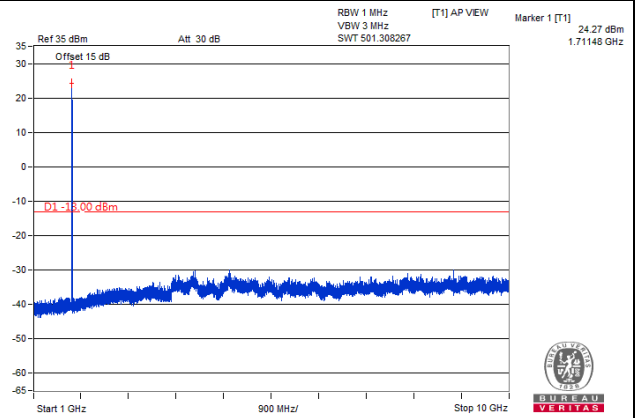
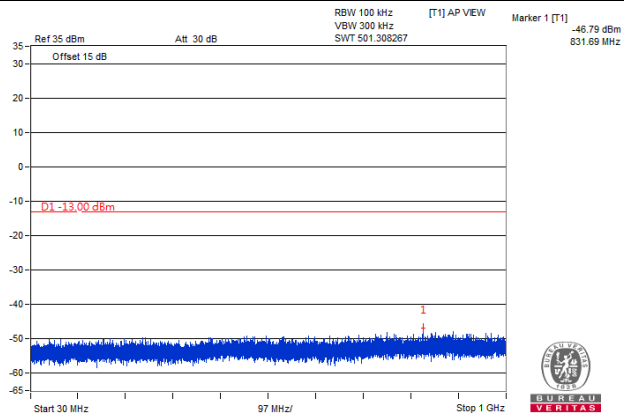
LTE Band 4

Channel Bandwidth: 20 MHz

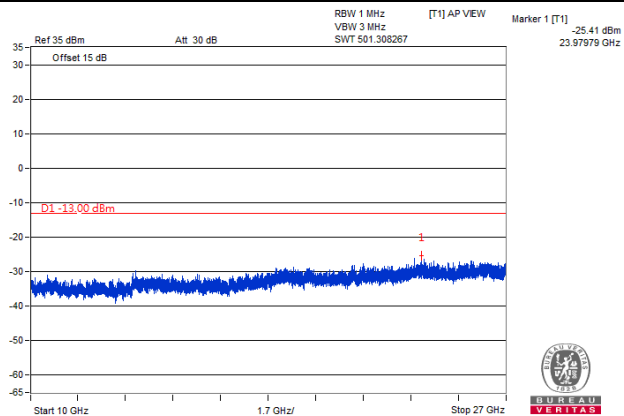
Channel 20050

Frequency Range: 30 MHz ~ 1 GHz

Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

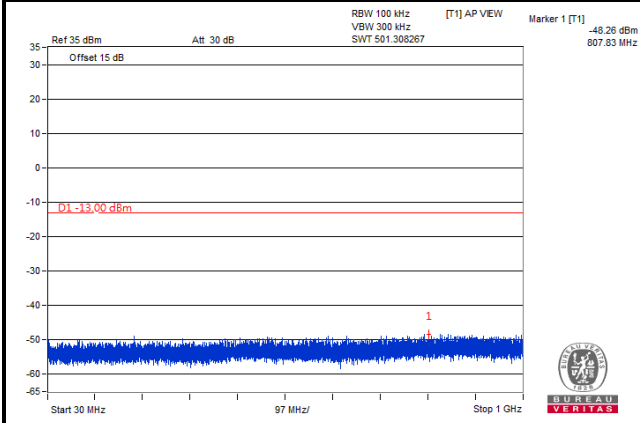


LTE Band 4

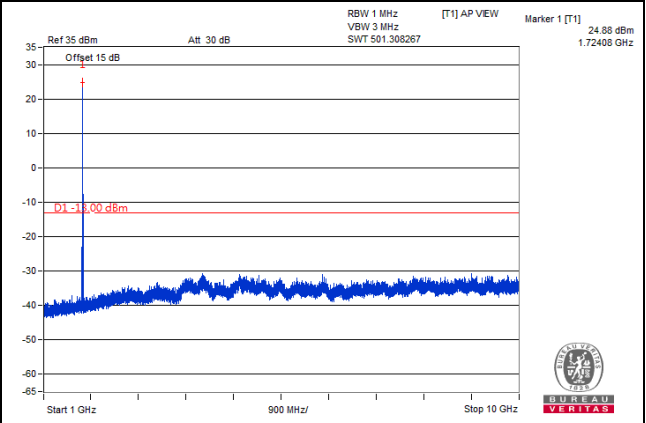
Channel Bandwidth: 20 MHz

Channel 20175

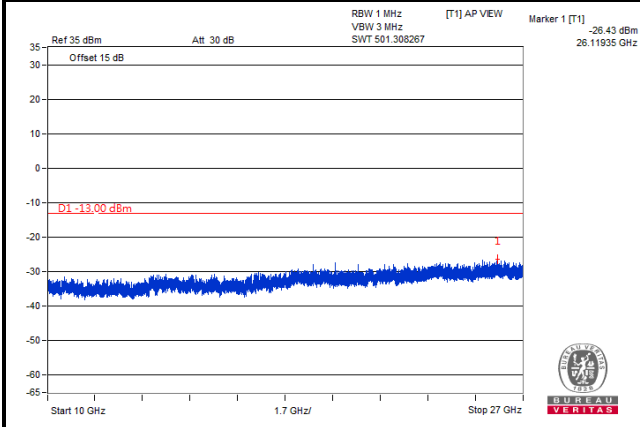
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

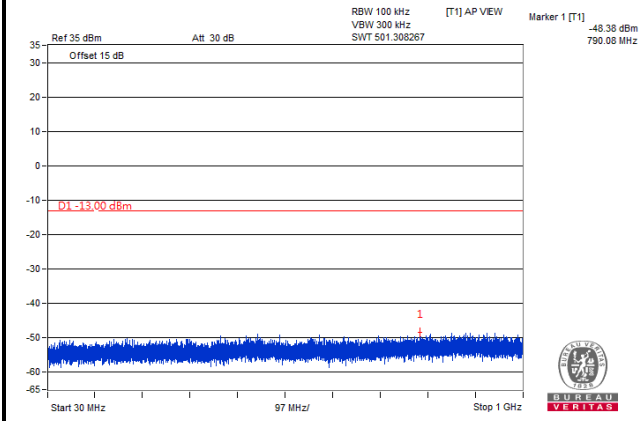


LTE Band 4

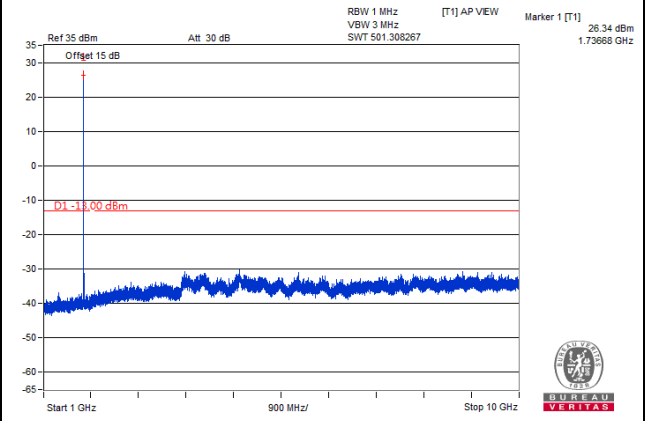
Channel Bandwidth: 20 MHz

Channel 20300

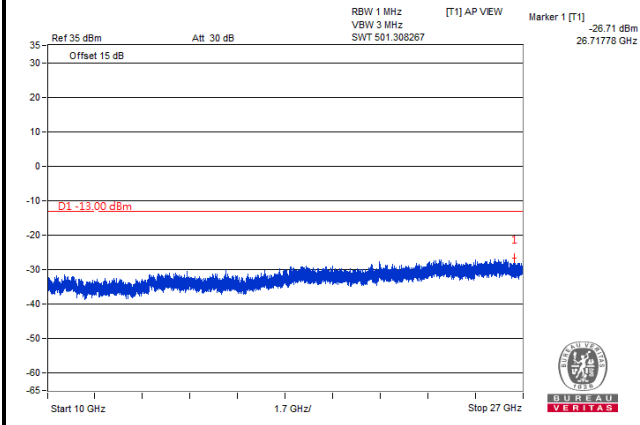
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

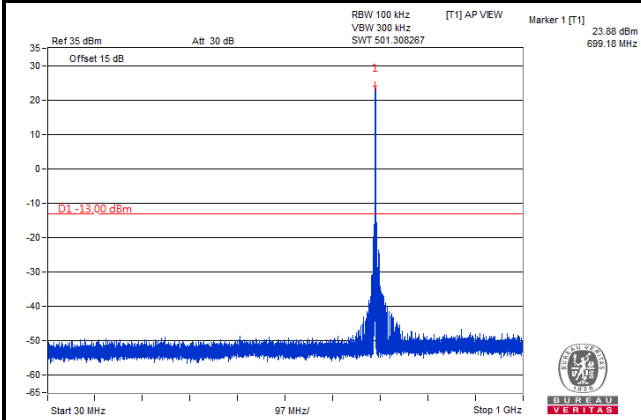


LTE Band 12

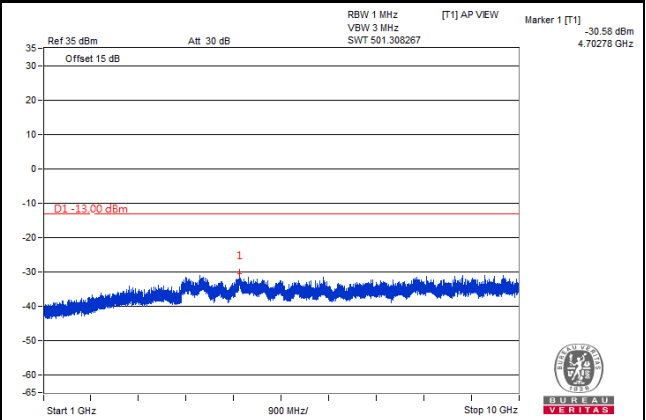
Channel Bandwidth: 1.4 MHz

Channel 23017

Frequency Range: 30 MHz ~ 1 GHz

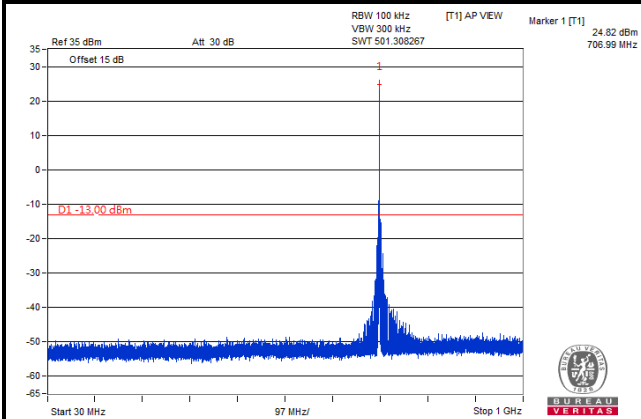


Frequency Range: 1 GHz ~ 10 GHz

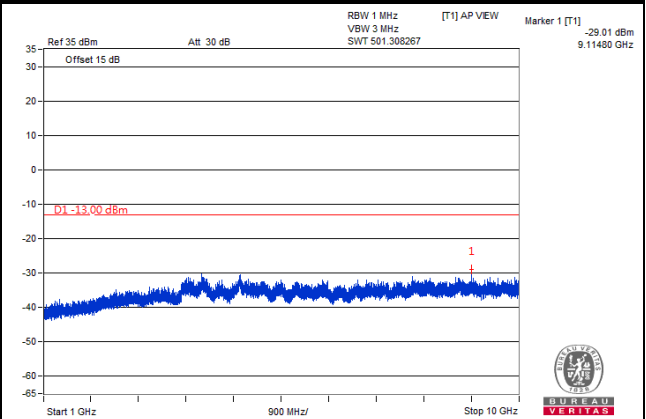


Channel 23095

Frequency Range: 30 MHz ~ 1 GHz

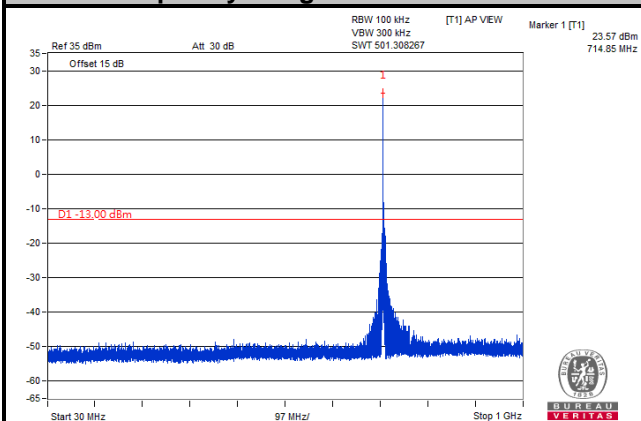


Frequency Range: 1 GHz ~ 10 GHz

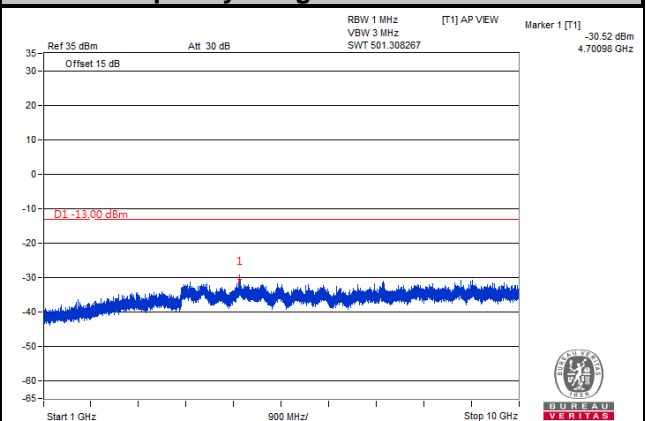


Channel 23173

Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz

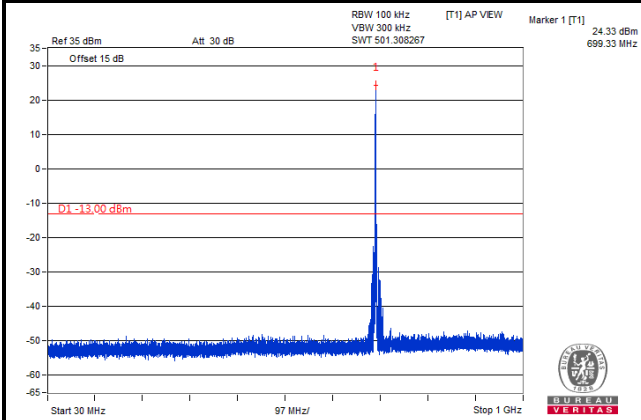


LTE Band 12

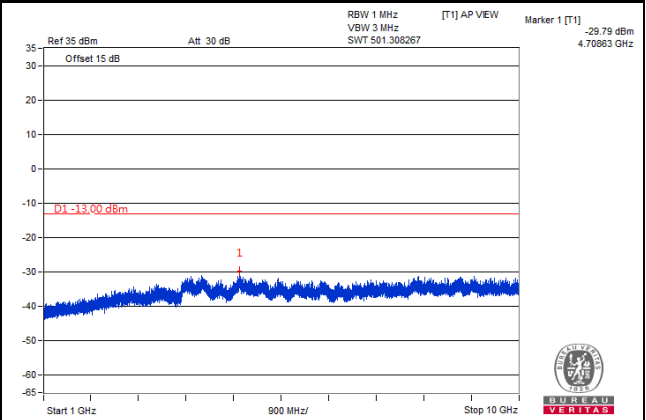
Channel Bandwidth: 3 MHz

Channel 23025

Frequency Range: 30 MHz ~ 1 GHz

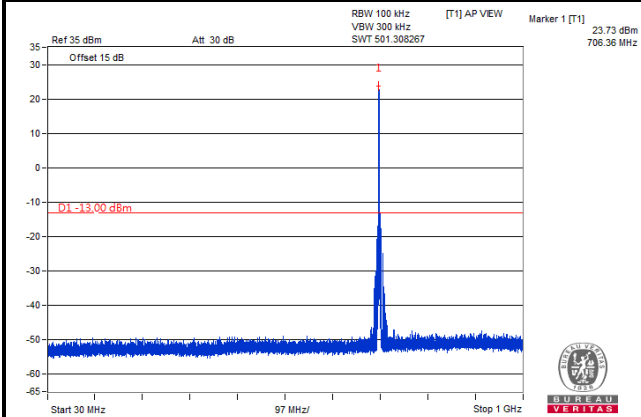


Frequency Range: 1 GHz ~ 10 GHz

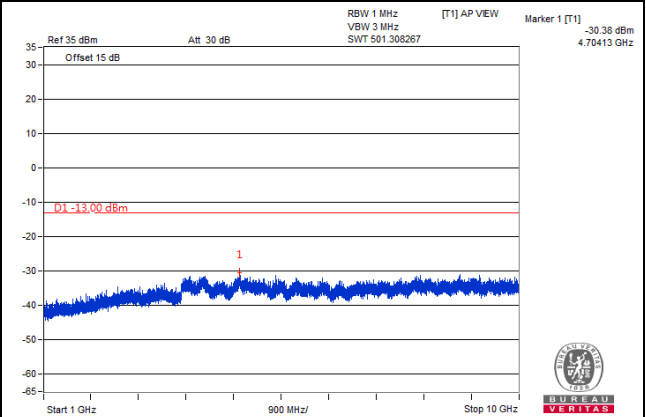


Channel 23095

Frequency Range: 30 MHz ~ 1 GHz

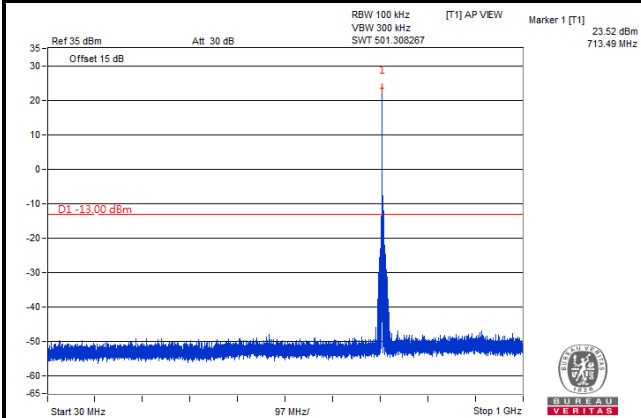


Frequency Range: 1 GHz ~ 10 GHz

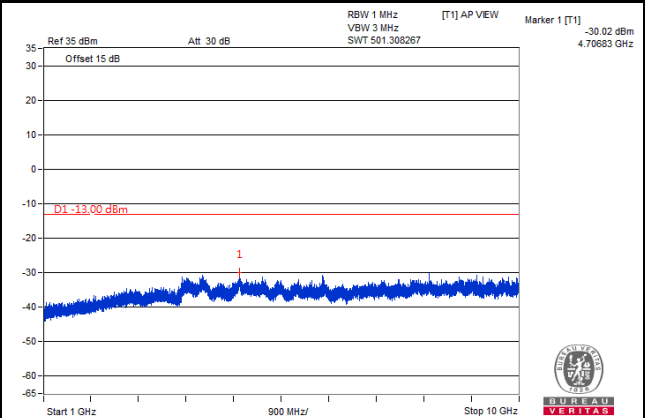


Channel 23165

Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz

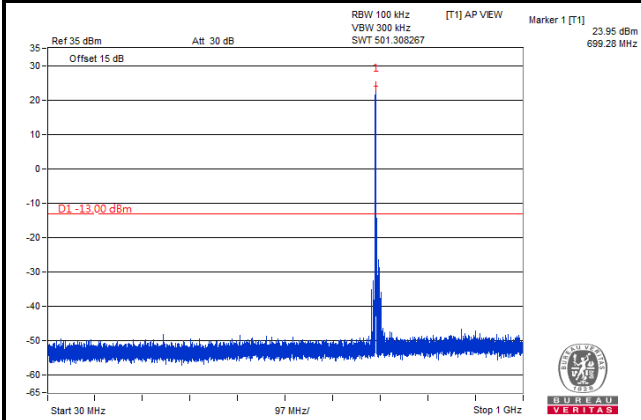


LTE Band 12

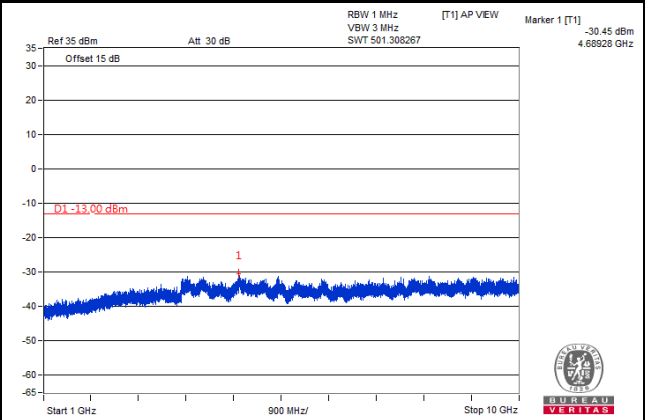
Channel Bandwidth: 5 MHz

Channel 23035

Frequency Range: 30 MHz ~ 1 GHz

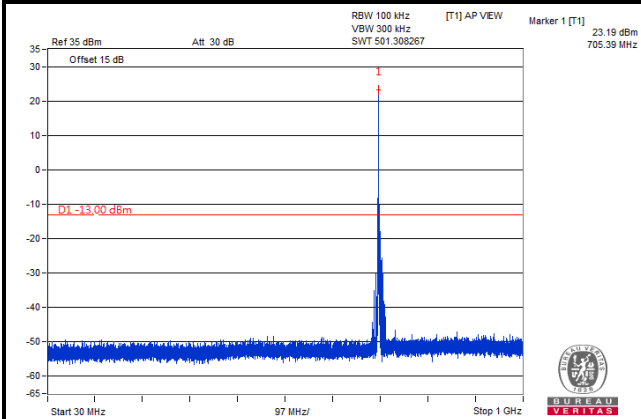


Frequency Range: 1 GHz ~ 10 GHz

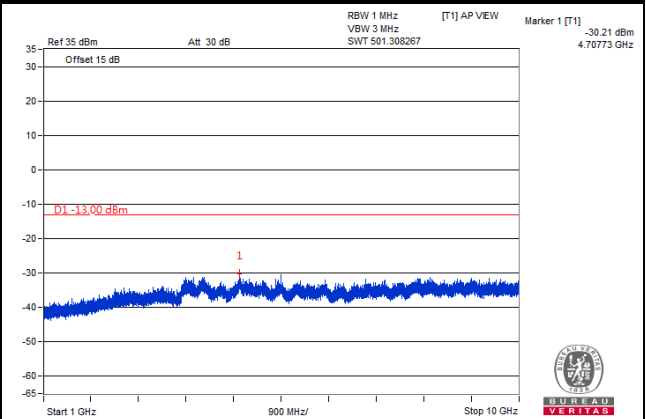


Channel 23095

Frequency Range: 30 MHz ~ 1 GHz

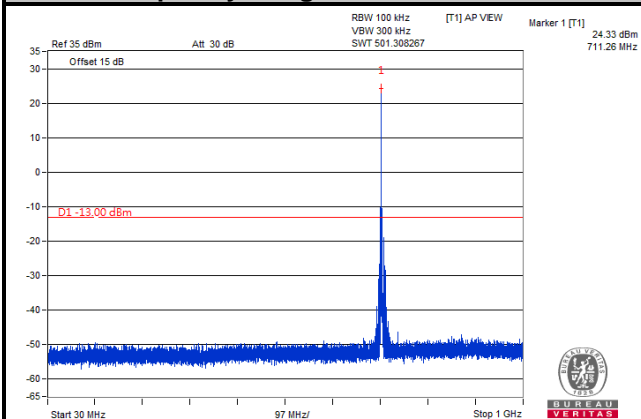


Frequency Range: 1 GHz ~ 10 GHz

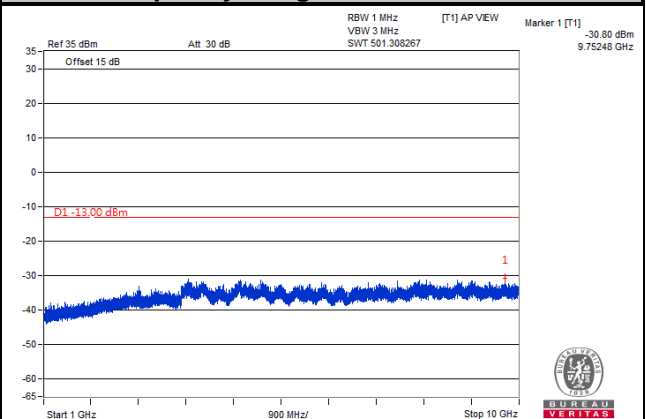


Channel 23155

Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz

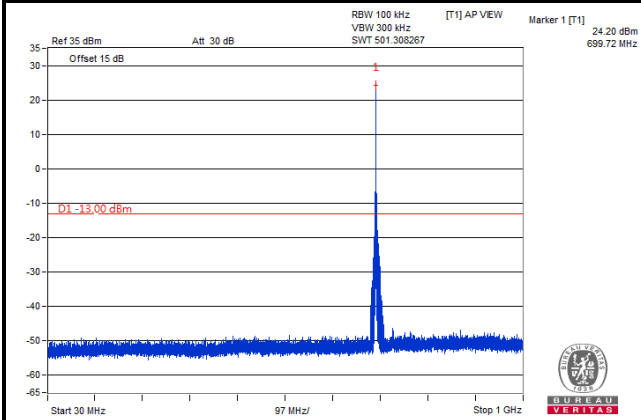


LTE Band 12

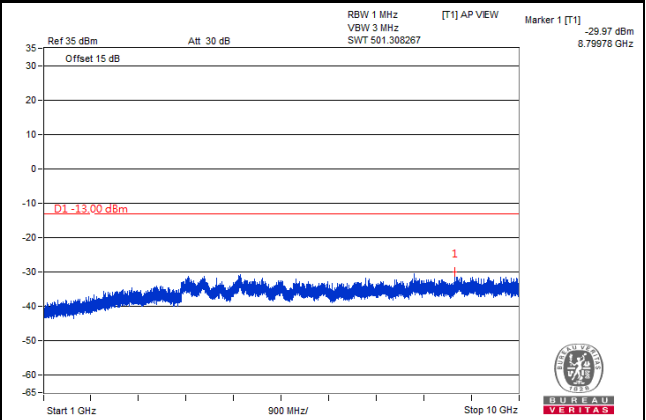
Channel Bandwidth: 10 MHz

Channel 23060

Frequency Range: 30 MHz ~ 1 GHz

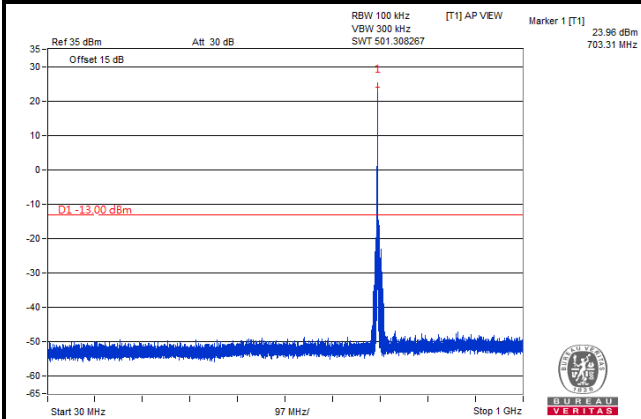


Frequency Range: 1 GHz ~ 10 GHz

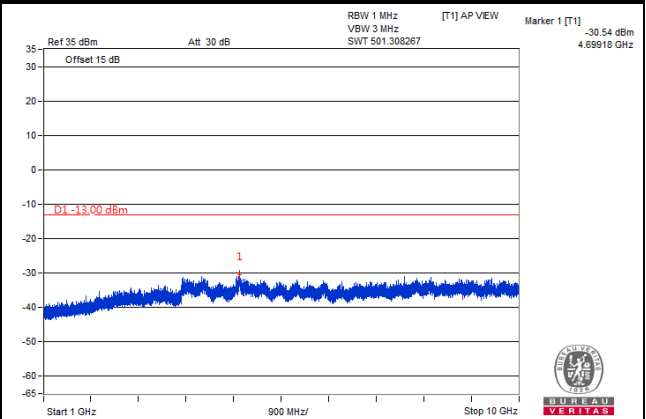


Channel 23095

Frequency Range: 30 MHz ~ 1 GHz

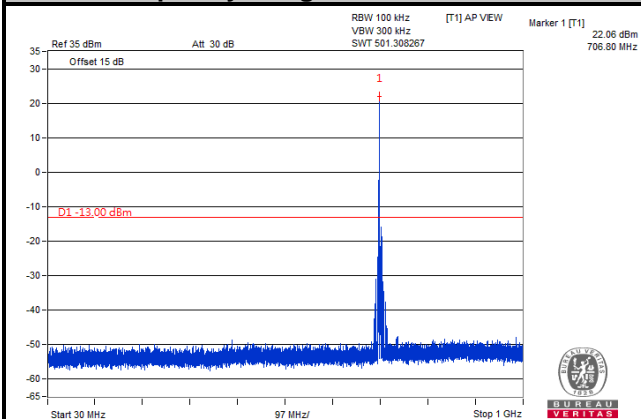


Frequency Range: 1 GHz ~ 10 GHz

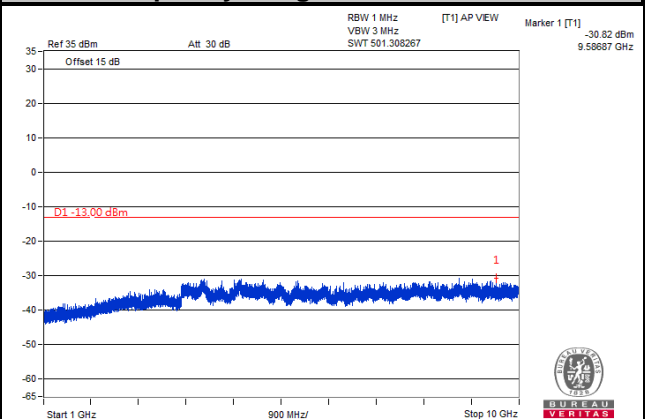


Channel 23130

Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz

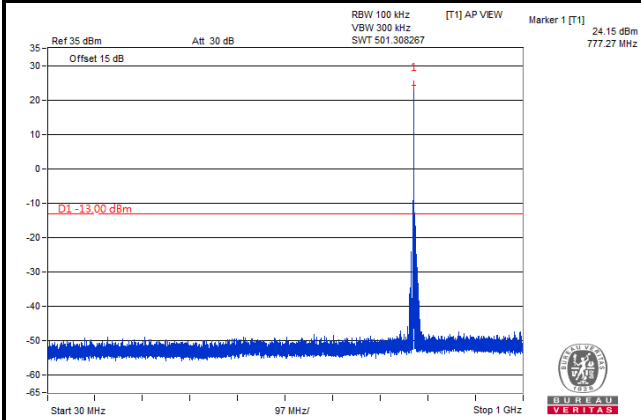


LTE Band 13

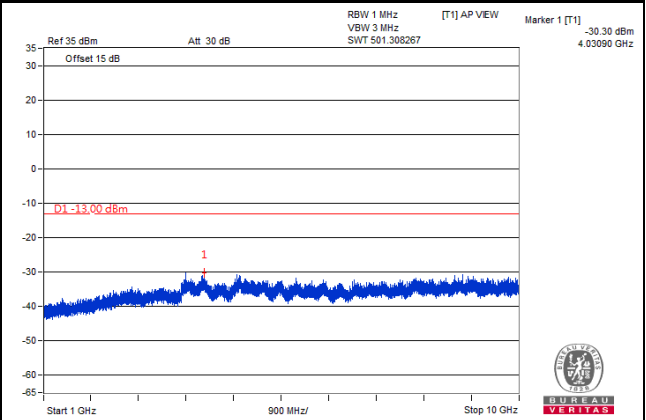
Channel Bandwidth: 5 MHz

Channel 23205

Frequency Range: 30 MHz ~ 1 GHz

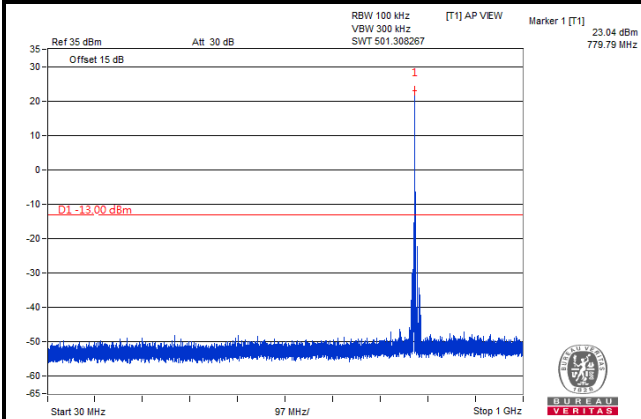


Frequency Range: 1 GHz ~ 10 GHz

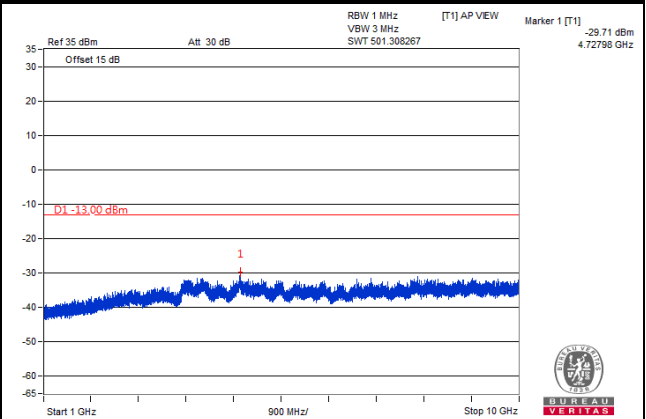


Channel 23230

Frequency Range: 30 MHz ~ 1 GHz

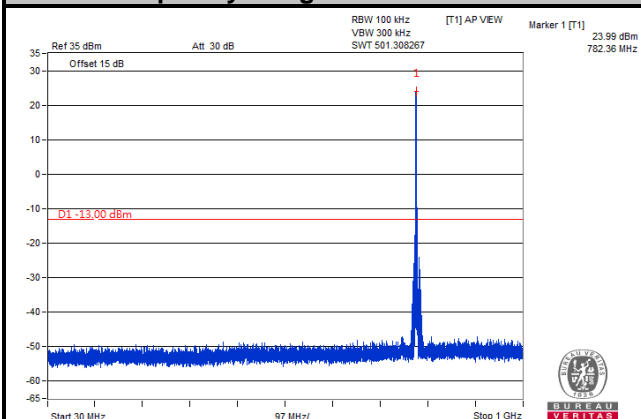


Frequency Range: 1 GHz ~ 10 GHz

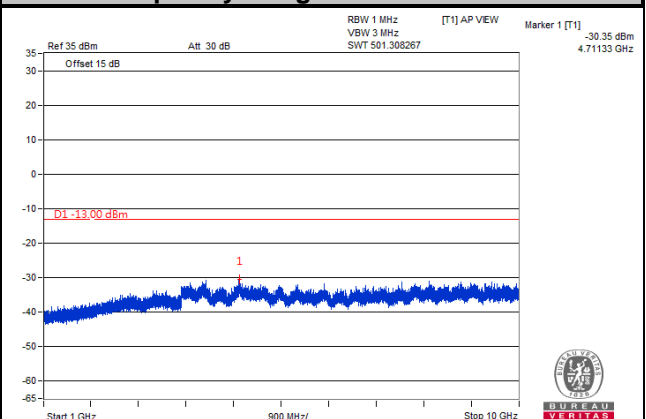


Channel 23255

Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



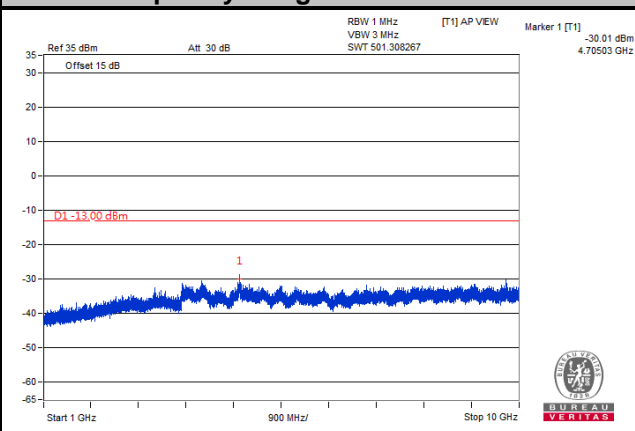
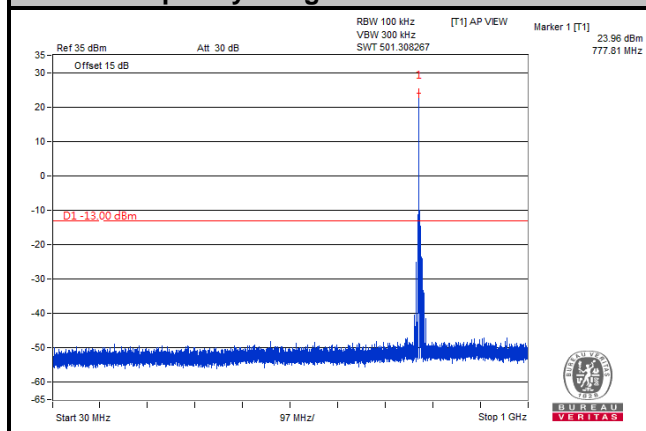
LTE Band 13

Channel Bandwidth: 10 MHz

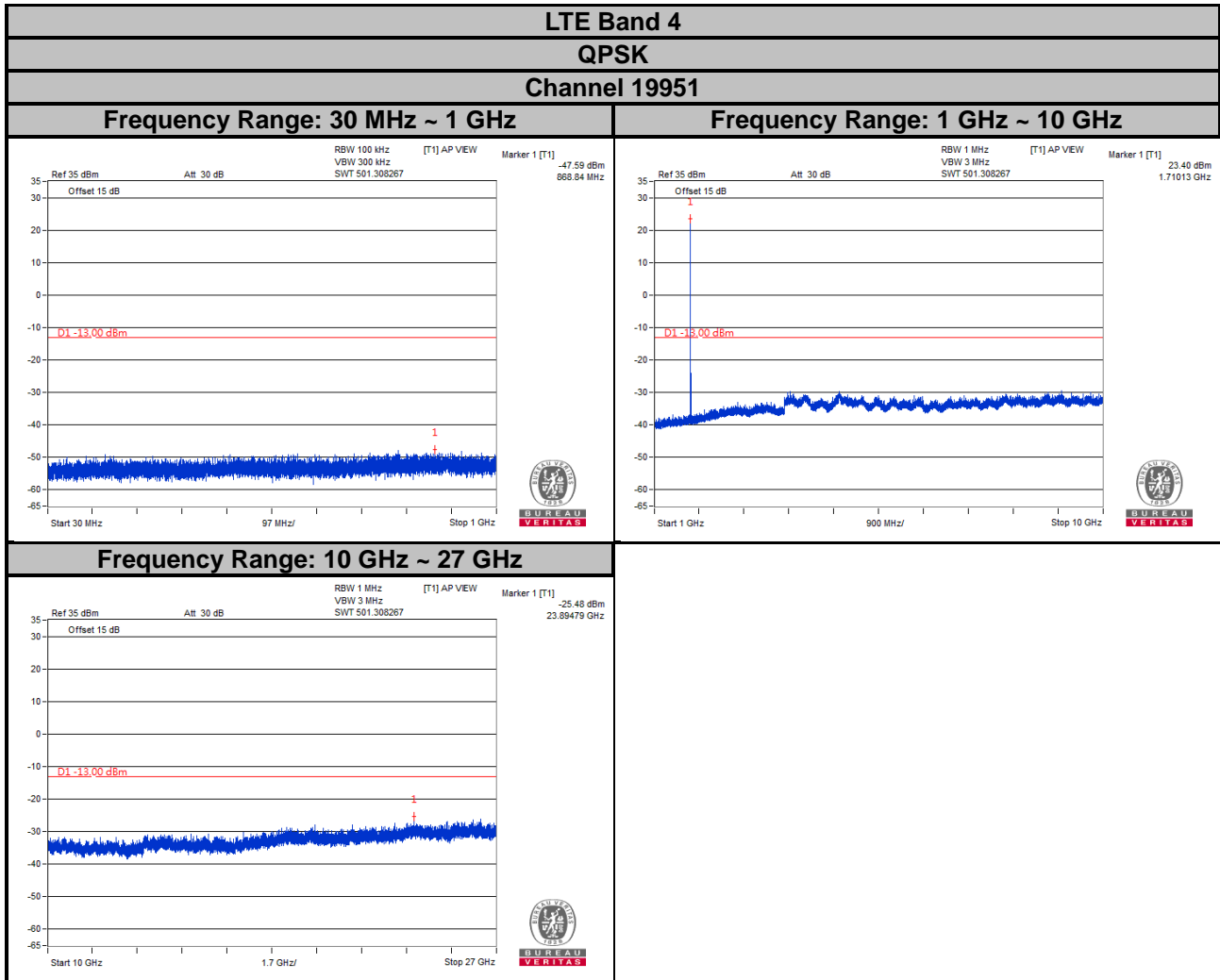
Channel 23230

Frequency Range: 30 MHz ~ 1 GHz

Frequency Range: 1 GHz ~ 10 GHz



NB-IOT

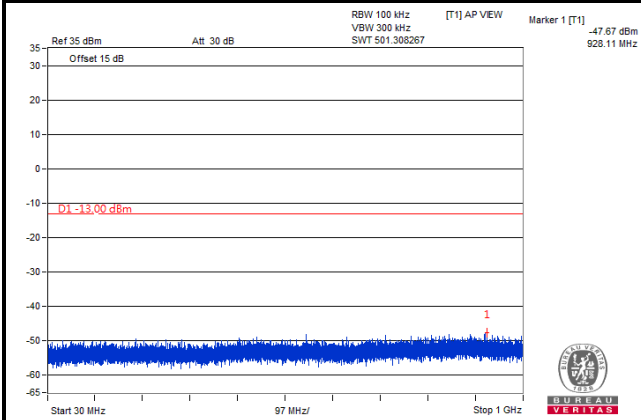


LTE Band 4

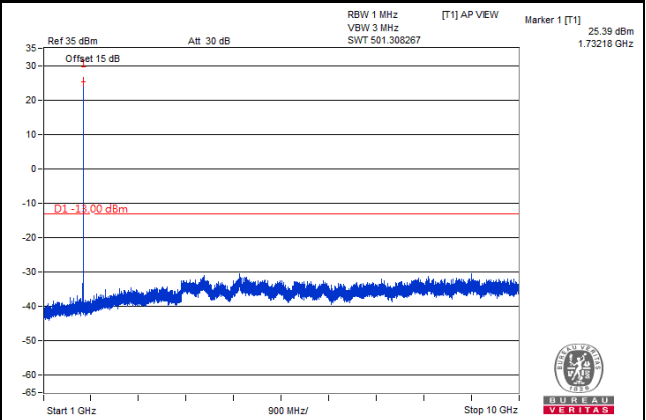
QPSK

Channel 20175

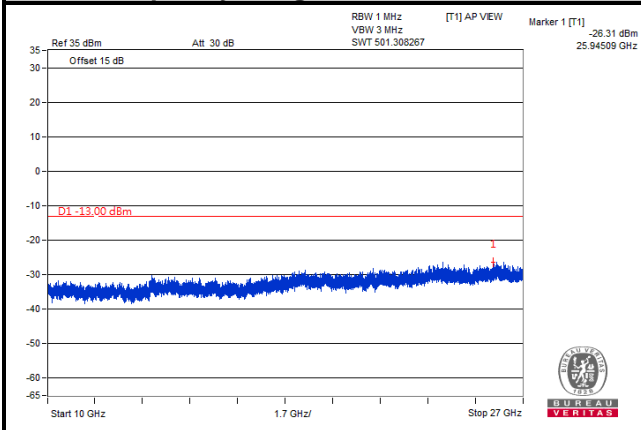
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

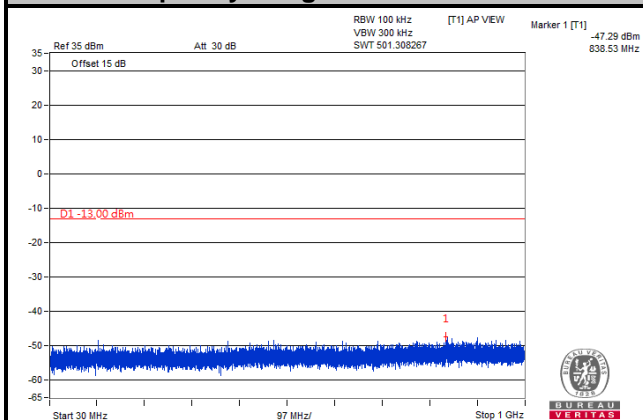


LTE Band 4

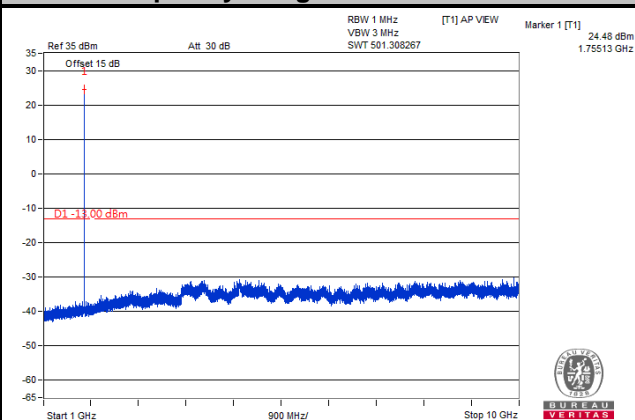
QPSK

Channel 20399

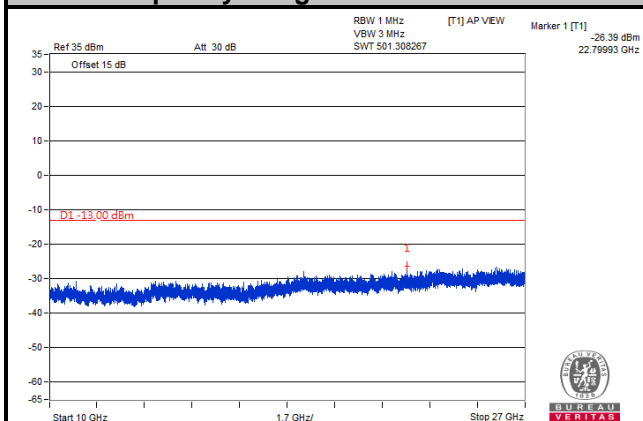
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

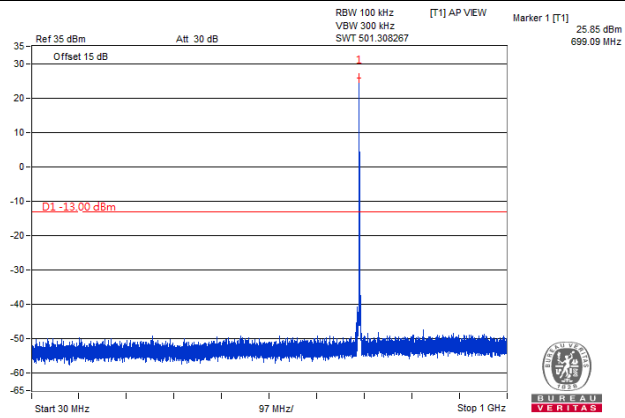


LTE Band 12

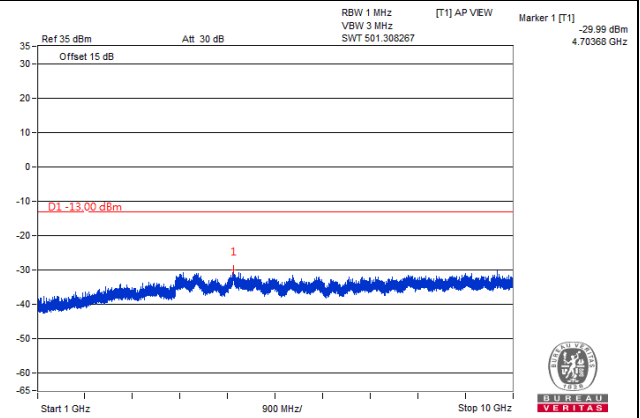
QPSK

Channel 23011

Frequency Range: 30 MHz ~ 1 GHz

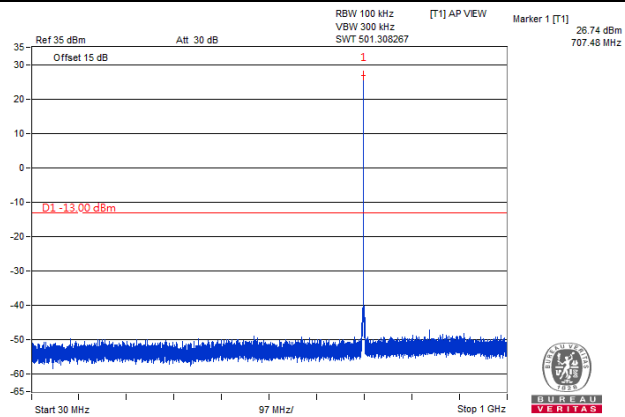


Frequency Range: 1 GHz ~ 10 GHz

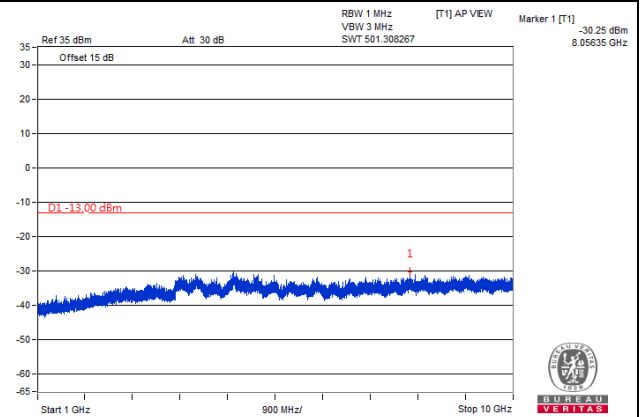


Channel 23095

Frequency Range: 30 MHz ~ 1 GHz

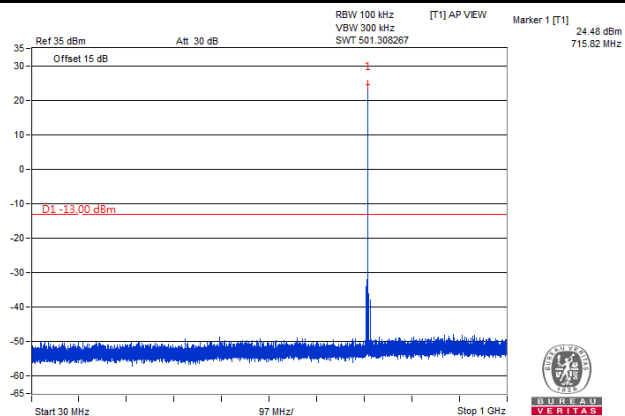


Frequency Range: 1 GHz ~ 10 GHz

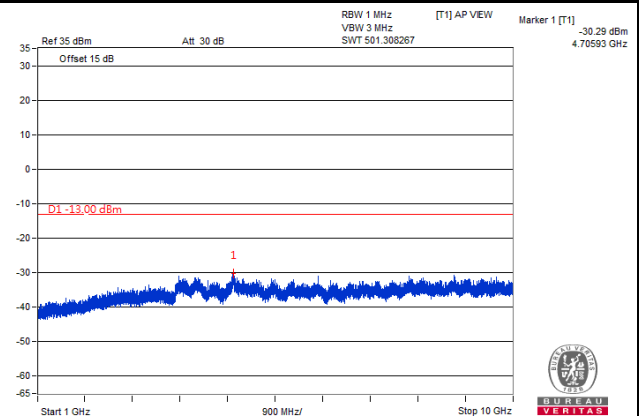


Channel 23179

Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz

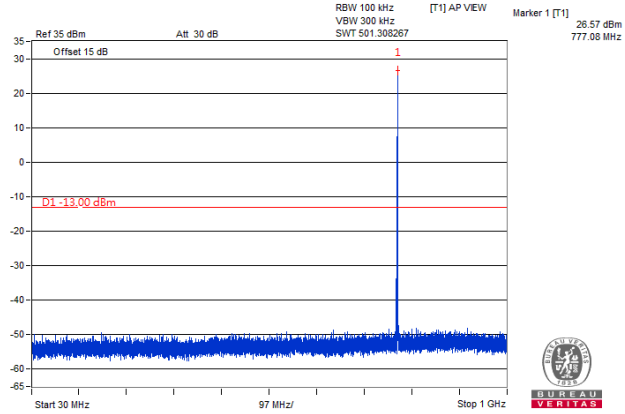


LTE Band 13

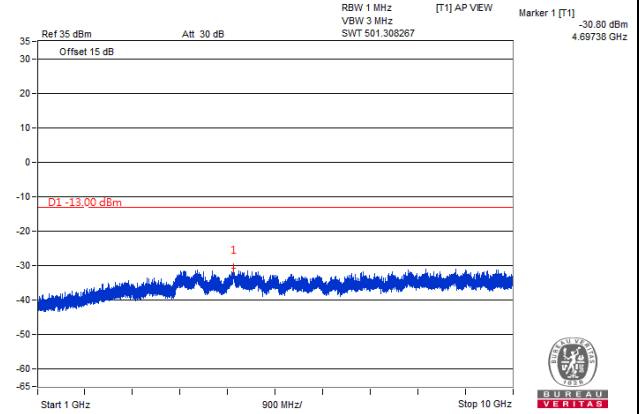
QPSK

Channel 23181

Frequency Range: 30 MHz ~ 1 GHz

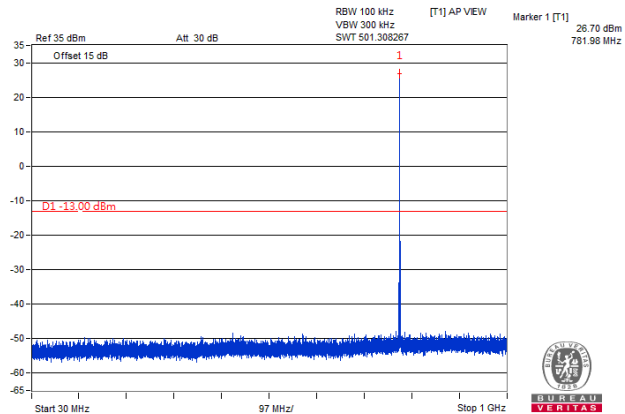


Frequency Range: 1 GHz ~ 10 GHz

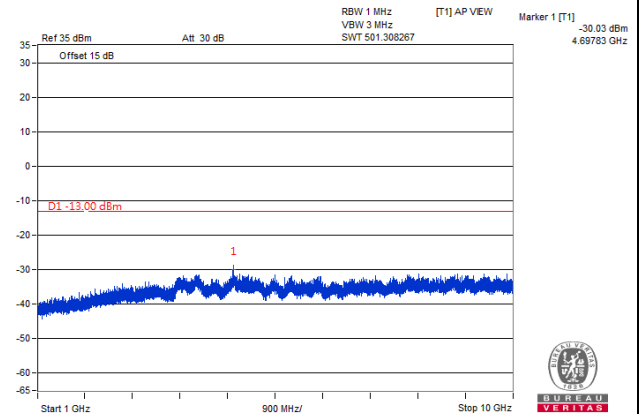


Channel 23230

Frequency Range: 30 MHz ~ 1 GHz

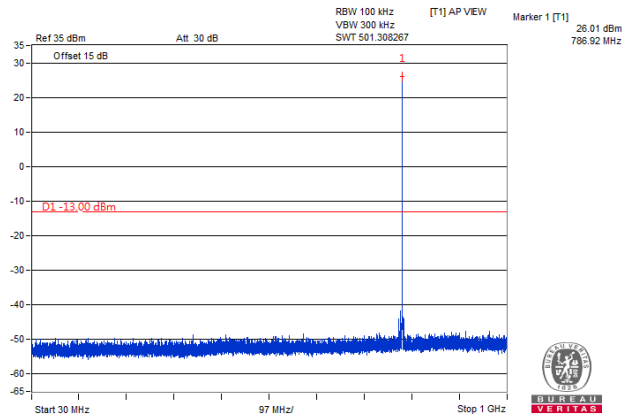


Frequency Range: 1 GHz ~ 10 GHz

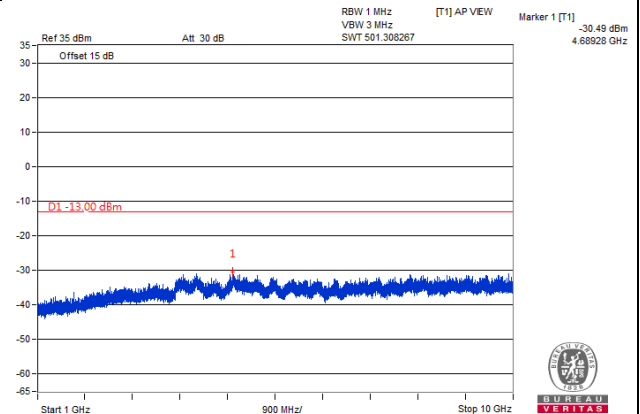


Channel 23279

Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



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, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

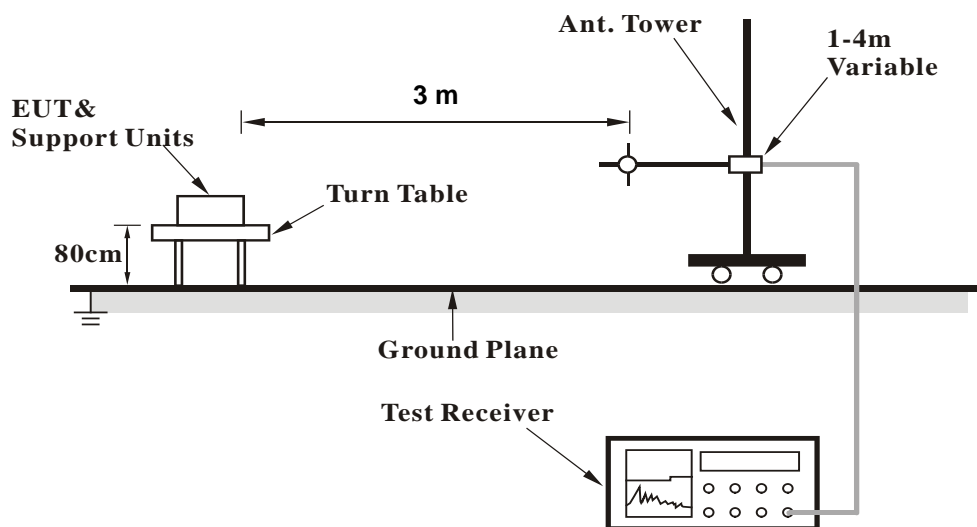
Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.8.3 Deviation from Test Standard

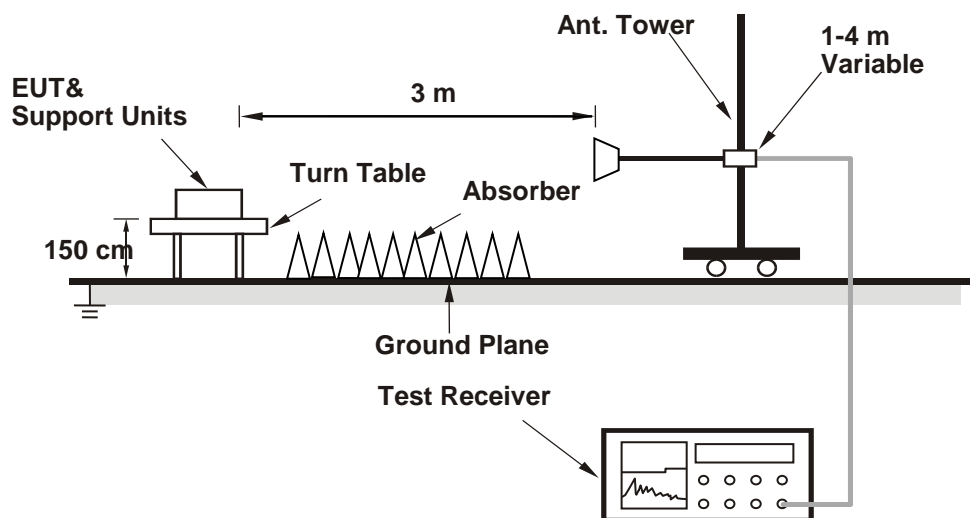
No deviation.

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

Cat-M1

LTE Band 4

Channel Bandwidth: 1.4 MHz / QPSK

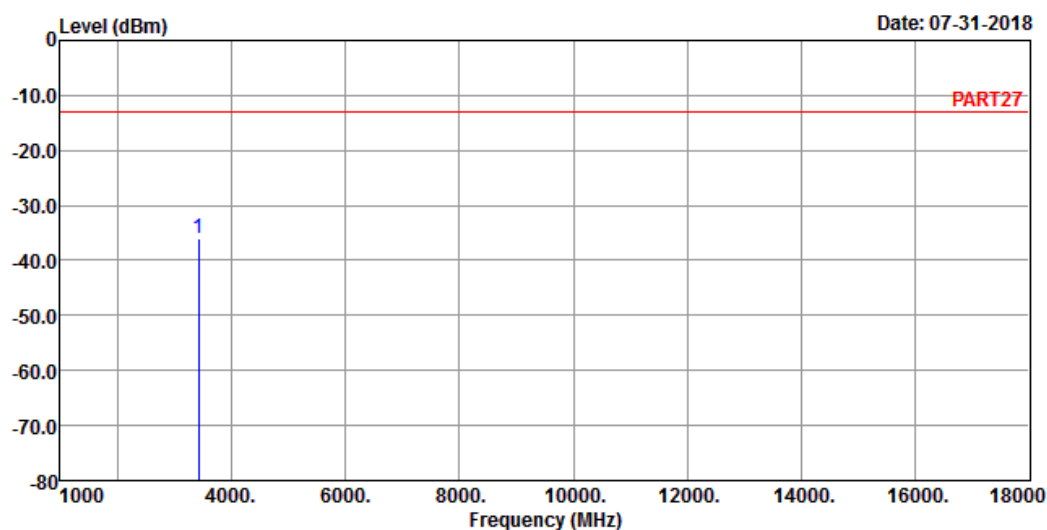
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : CAT M1 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 | |

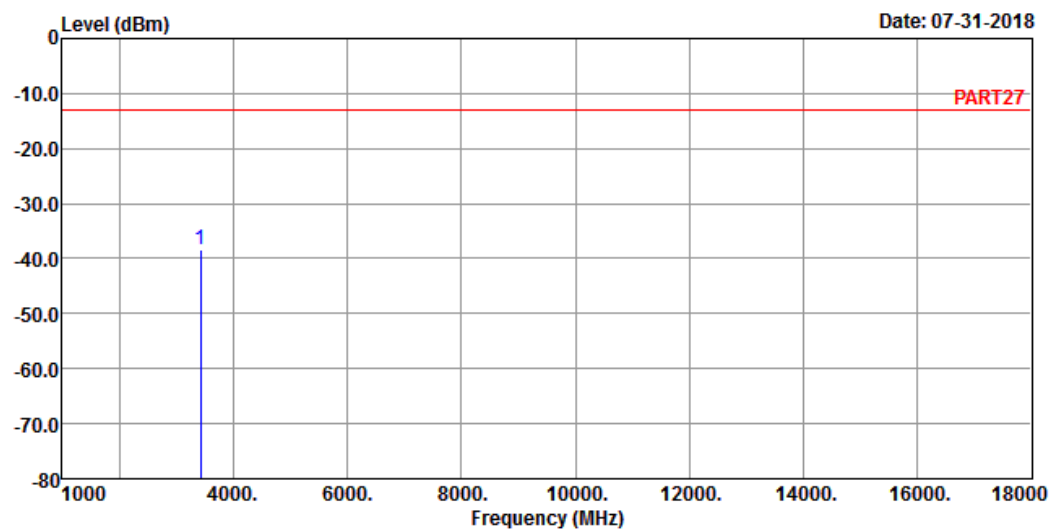
1 pp 3421.40 -35.87 -27.53 -13.00 -22.87 -8.34 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : CAT M1 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 | -38.30 | -29.96 | -13.00 | -25.30 | -8.34 | Peak |

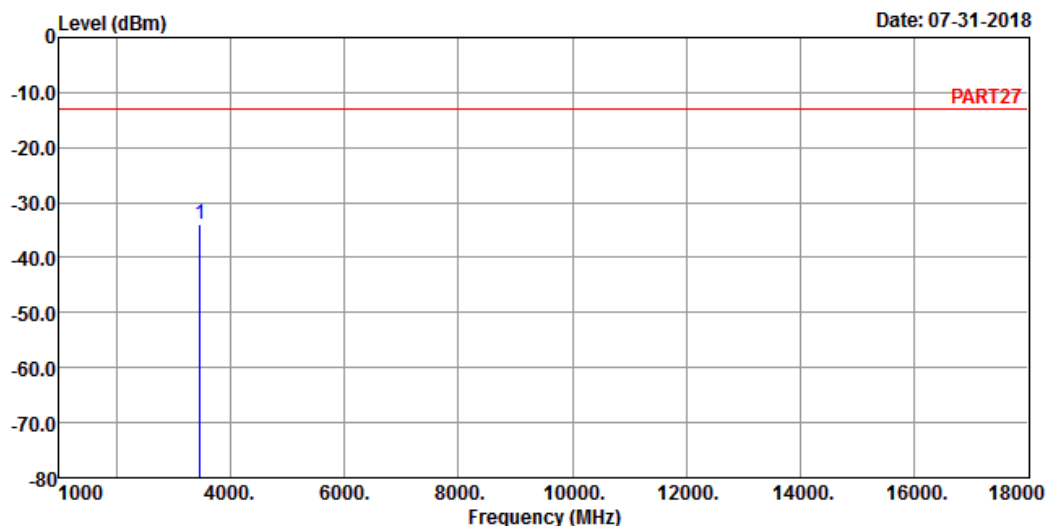
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 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 3465.00 -33.91 -26.03 -13.00 -20.91 -7.88 Peak

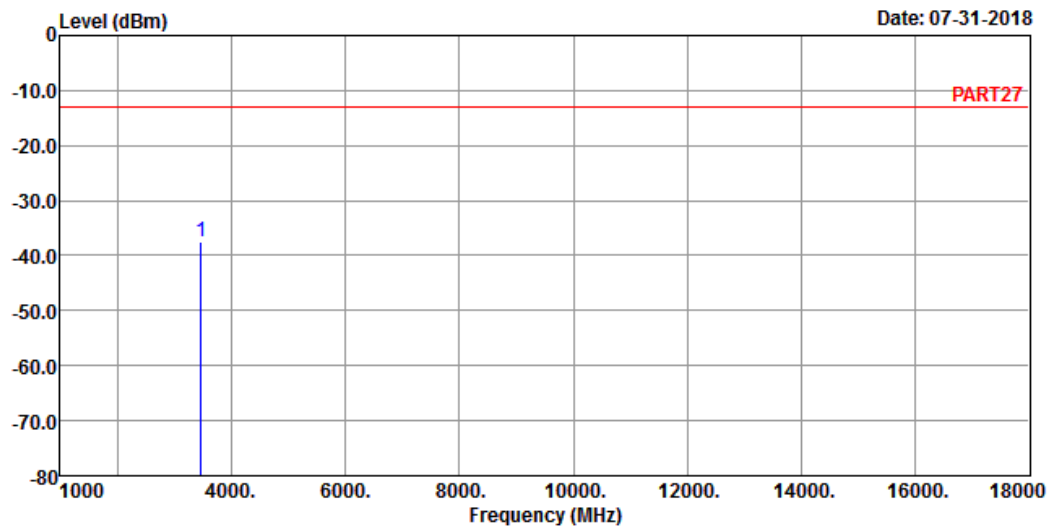


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 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 3465.00 | -37.54 | -29.66 | -13.00 | -24.54 | -7.88 | Peak |

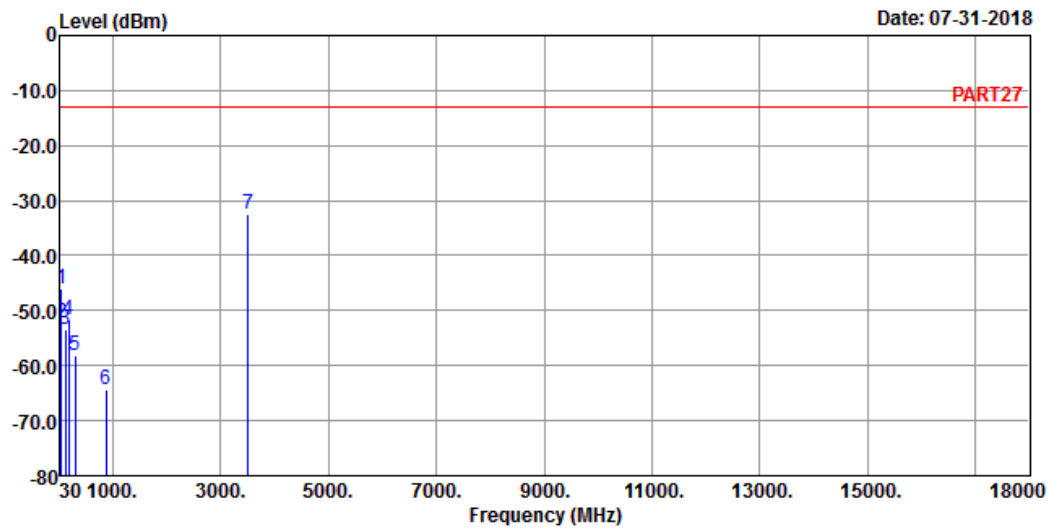
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : CAT M1 Band 4 QPSK_1.4M Link_H-CH
 Tested by: Thomas Wei

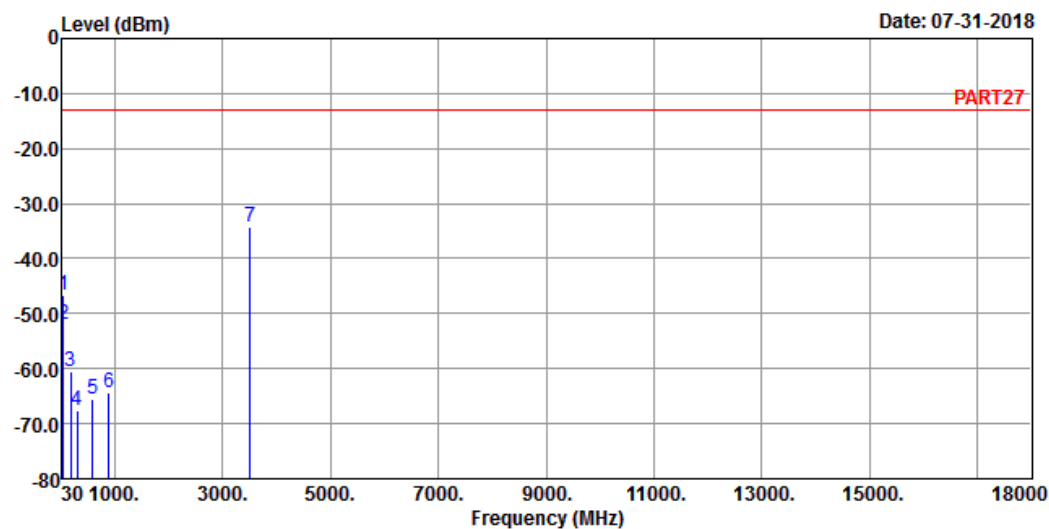
| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 44.55 | -45.94 | -43.95 | -13.00 | -32.94 | -1.99 | Peak |
| 2 | 53.28 | -52.17 | -46.36 | -13.00 | -39.17 | -5.81 | Peak |
| 3 | 128.94 | -53.45 | -44.64 | -13.00 | -40.45 | -8.81 | Peak |
| 4 | 191.02 | -51.57 | -44.39 | -13.00 | -38.57 | -7.18 | Peak |
| 5 | 302.57 | -58.14 | -51.17 | -13.00 | -45.14 | -6.97 | Peak |
| 6 | 883.60 | -64.26 | -64.74 | -13.00 | -51.26 | 0.48 | Peak |
| 7 pp | 3508.60 | -32.46 | -25.01 | -13.00 | -19.46 | -7.45 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : CAT M1 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 | 43.58 | -46.51 | -45.04 | -13.00 | -33.51 | -1.47 | Peak |
| 2 | 52.31 | -52.08 | -46.54 | -13.00 | -39.08 | -5.54 | Peak |
| 3 | 190.05 | -60.53 | -53.44 | -13.00 | -47.53 | -7.09 | Peak |
| 4 | 305.48 | -67.57 | -60.65 | -13.00 | -54.57 | -6.92 | Peak |
| 5 | 592.60 | -65.46 | -64.38 | -13.00 | -52.46 | -1.08 | Peak |
| 6 | 886.51 | -64.38 | -64.88 | -13.00 | -51.38 | 0.50 | Peak |
| 7 pp | 3508.60 | -34.26 | -26.81 | -13.00 | -21.26 | -7.45 | Peak |

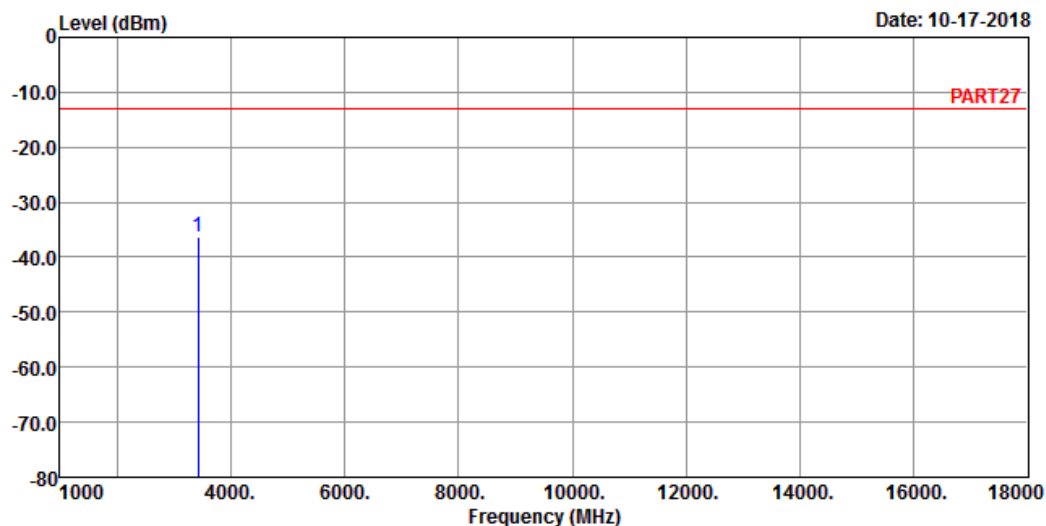
Channel Bandwidth: 3 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_3M Link_L-CH
Tested by: Thomas Wei

| Freq | Level | Read | Limit | Over | | |
|--------------|--------|--------|--------|--------|--------|--------|
| MHz | dBm | Level | Line | Limit | Factor | Remark |
| 1 pp 3423.00 | -36.23 | -27.89 | -13.00 | -23.23 | -8.34 | Peak |

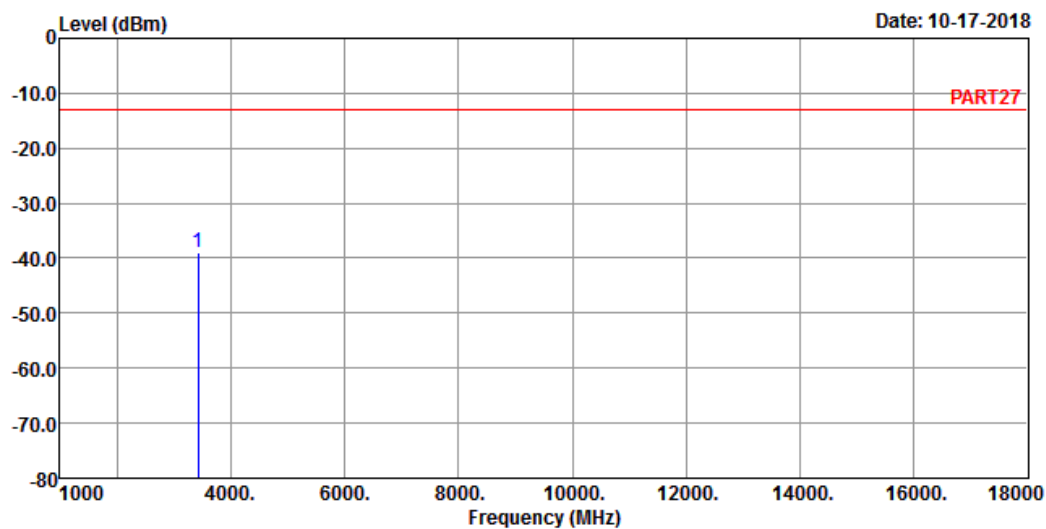


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_3M 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 3423.00 | -38.85 | -30.51 | -13.00 | -25.85 | -8.34 | Peak |

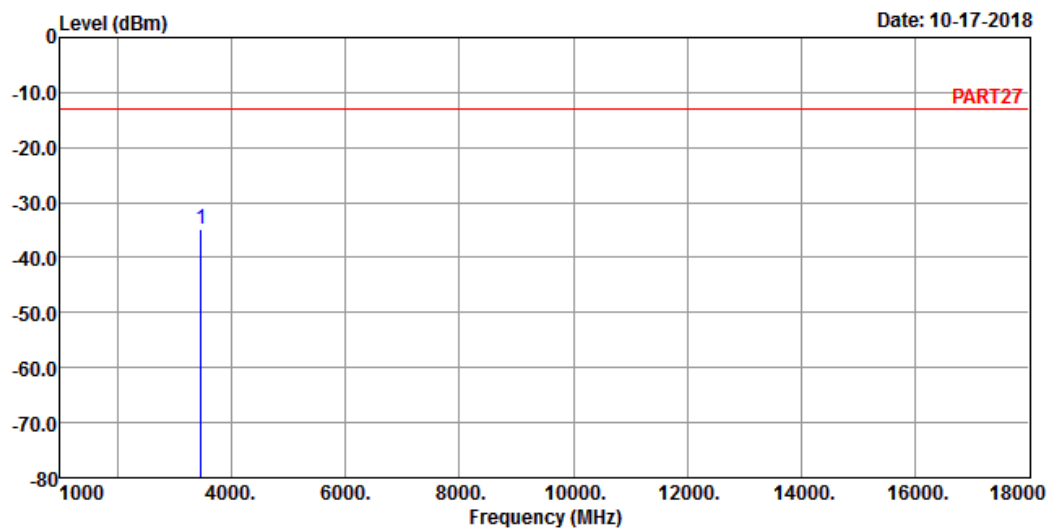
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_3M Link_M-CH
Tested by: Thomas Wei

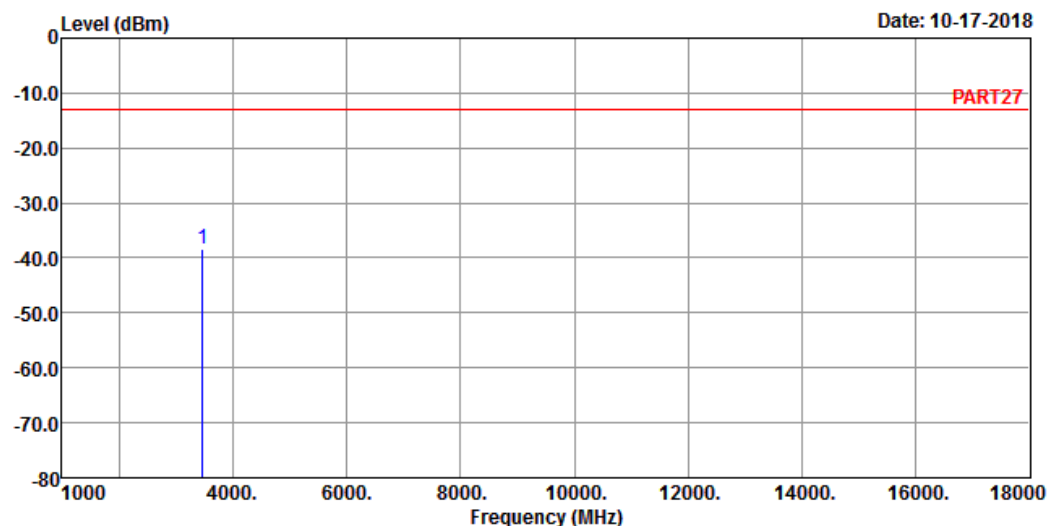
| | | Read | Limit | Over | | |
|--------------|--------|--------|--------|--------|--------|--------|
| Freq | Level | Level | Line | Limit | Factor | Remark |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3465.00 | -34.85 | -26.97 | -13.00 | -21.85 | -7.88 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_3M 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 3465.00 | -38.26 | -30.38 | -13.00 | -25.26 | -7.88 | Peak |

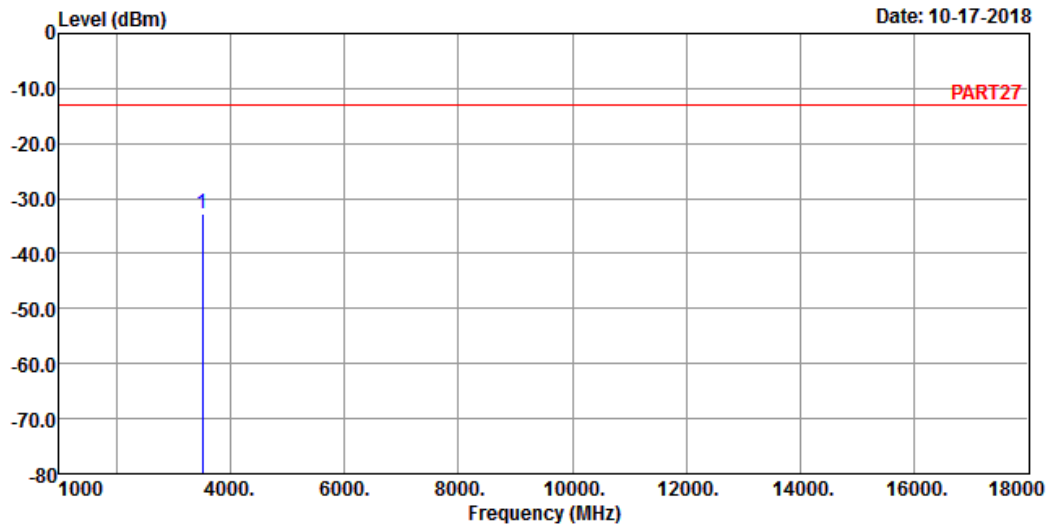
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : CAT M1 Band 4 QPSK_3M Link_H-CH
 Tested by: Thomas Wei

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

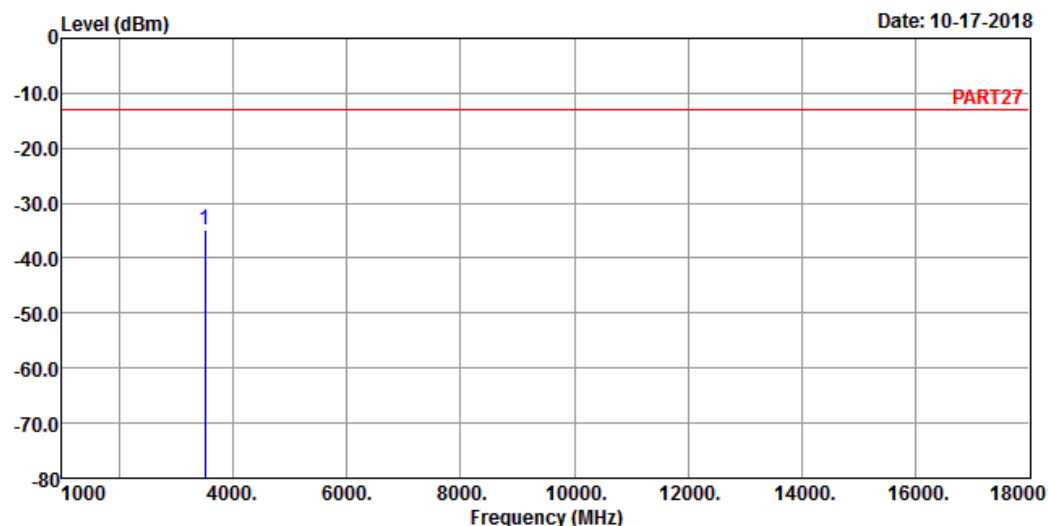
1 pp 3507.00 -32.85 -25.40 -13.00 -19.85 -7.45 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_3M Link_H-CH

Tested by: Thomas Wei

| Freq | Level | Read | Limit | Over | Factor | Remark |
|--------------|--------|--------|--------|--------|--------|--------|
| | | Level | Line | Limit | | |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3507.00 | -34.96 | -27.51 | -13.00 | -21.96 | -7.45 | Peak |

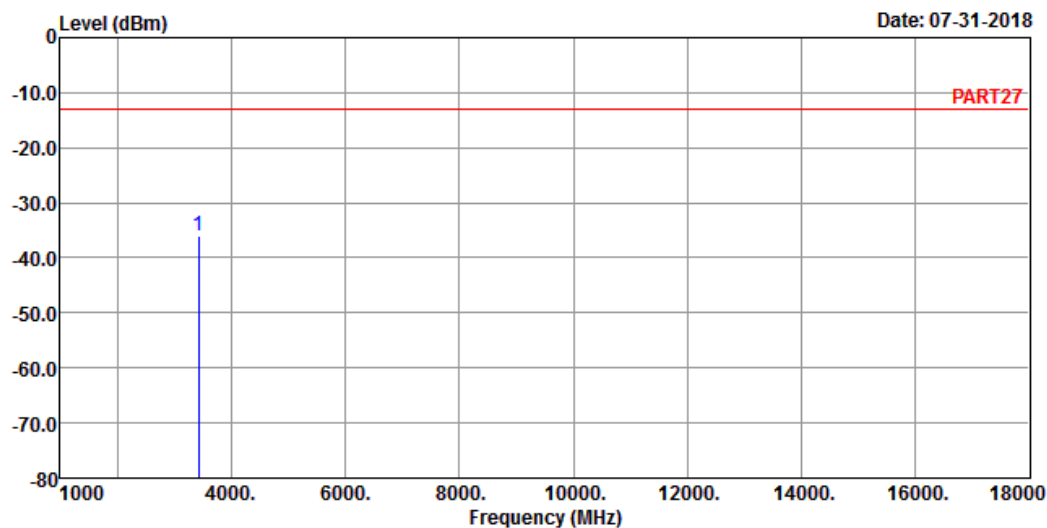
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_5M Link_L-CH
Tested by: Thomas Wei

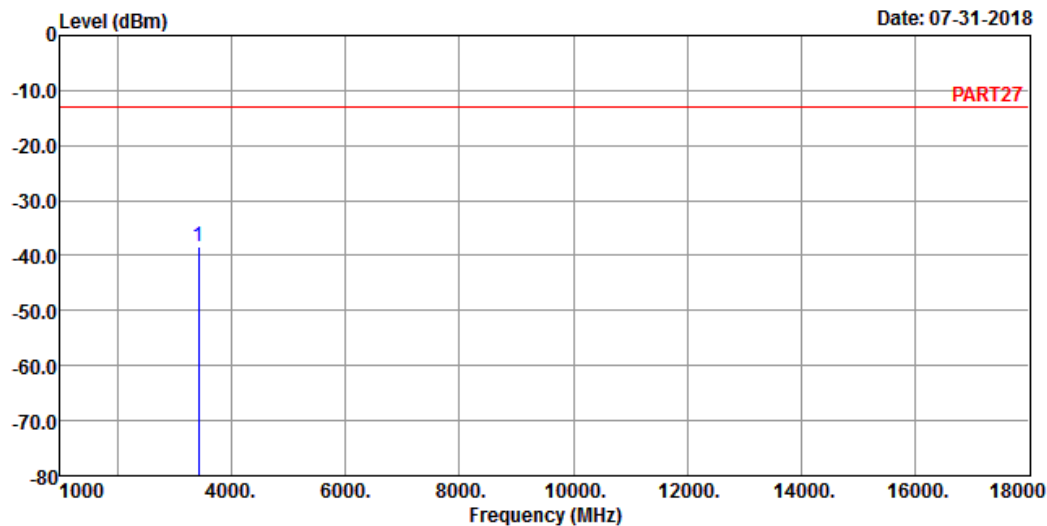
| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3425.00 | -36.12 | -27.78 | -13.00 | -23.12 | -8.34 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : CAT M1 Band 4 QPSK_5M 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 3425.00 | -38.49 | -30.15 | -13.00 | -25.49 | -8.34 | Peak |

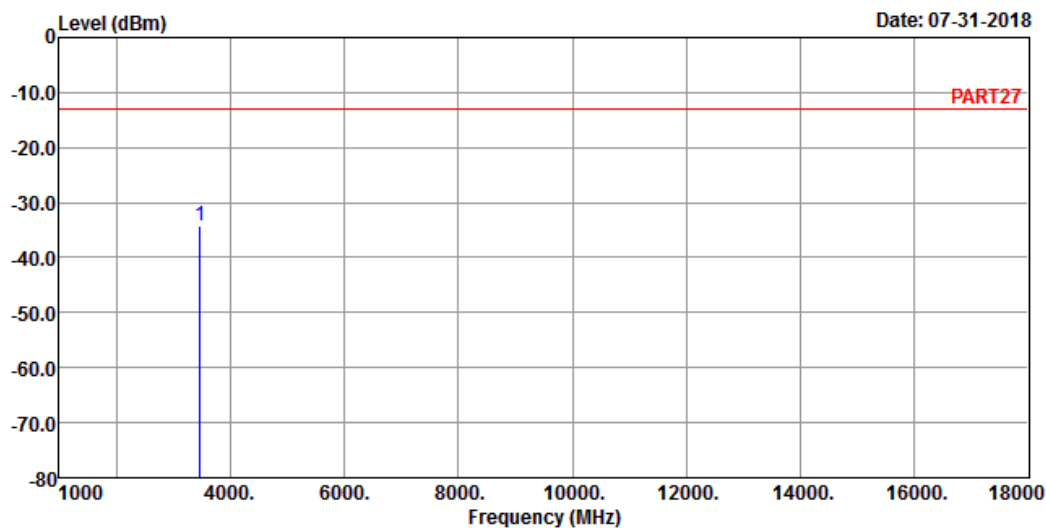
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_5M 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 3465.00 -34.33 -26.45 -13.00 -21.33 -7.88 Peak

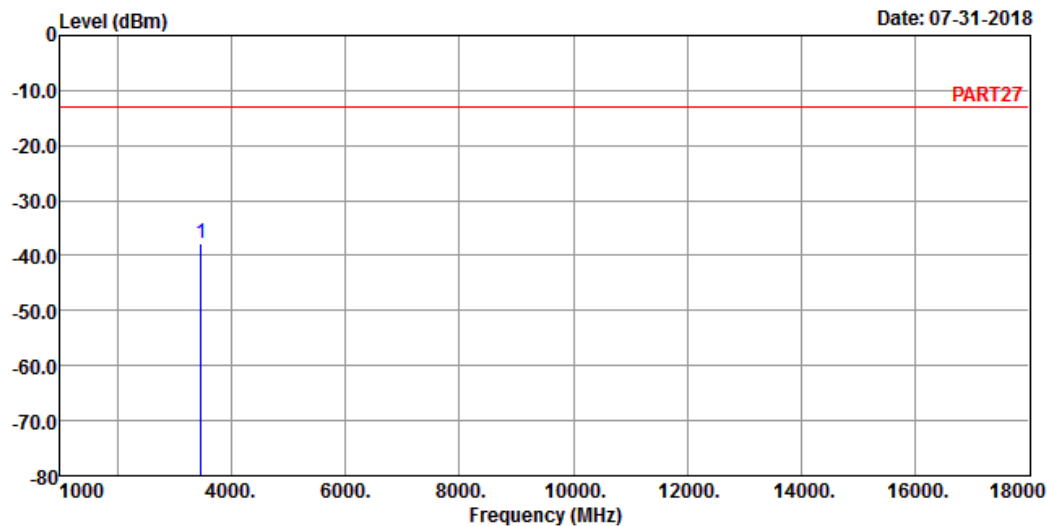


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_5M Link_M-CH

Tested by: Thomas Wei

| Freq | Level | Read | Limit | Over | Factor | Remark |
|--------------|--------|--------|--------|--------|--------|--------|
| | | Level | Line | Limit | | |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3465.00 | -37.67 | -29.79 | -13.00 | -24.67 | -7.88 | Peak |

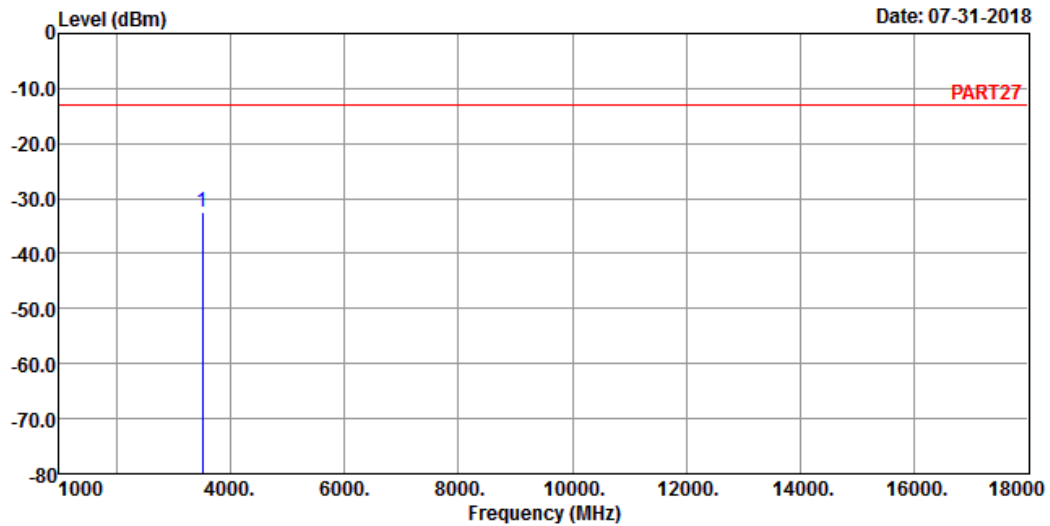
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : CAT M1 Band 4 QPSK_5M Link_H-CH
 Tested by: Thomas Wei

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

1 pp 3505.00 -32.58 -25.13 -13.00 -19.58 -7.45 Peak

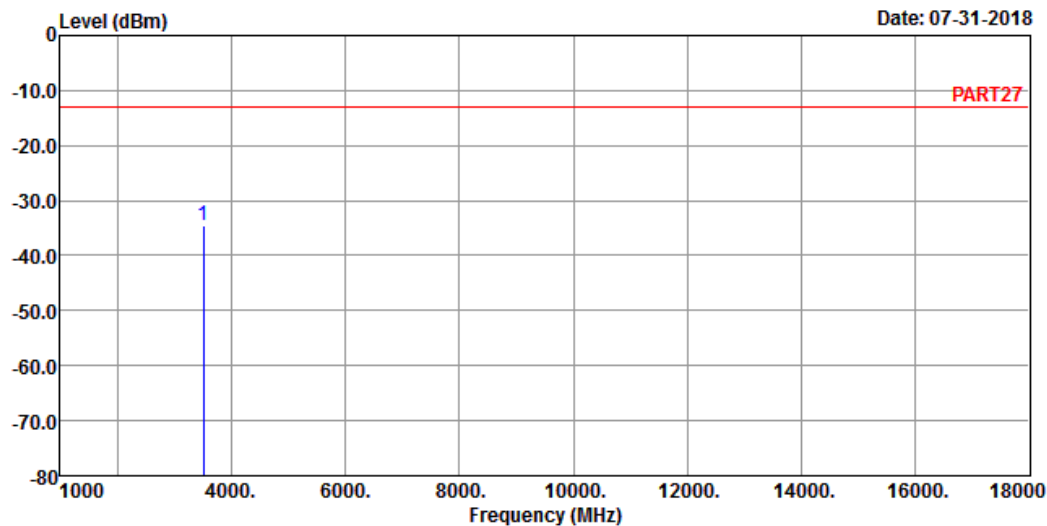


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_5M Link_H-CH

Tested by: Thomas Wei

| Freq | Level | Read | Limit | Over | Factor | Remark |
|--------------|--------|--------|--------|--------|--------|--------|
| | | Level | Line | Limit | | |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3505.00 | -34.48 | -27.03 | -13.00 | -21.48 | -7.45 | Peak |

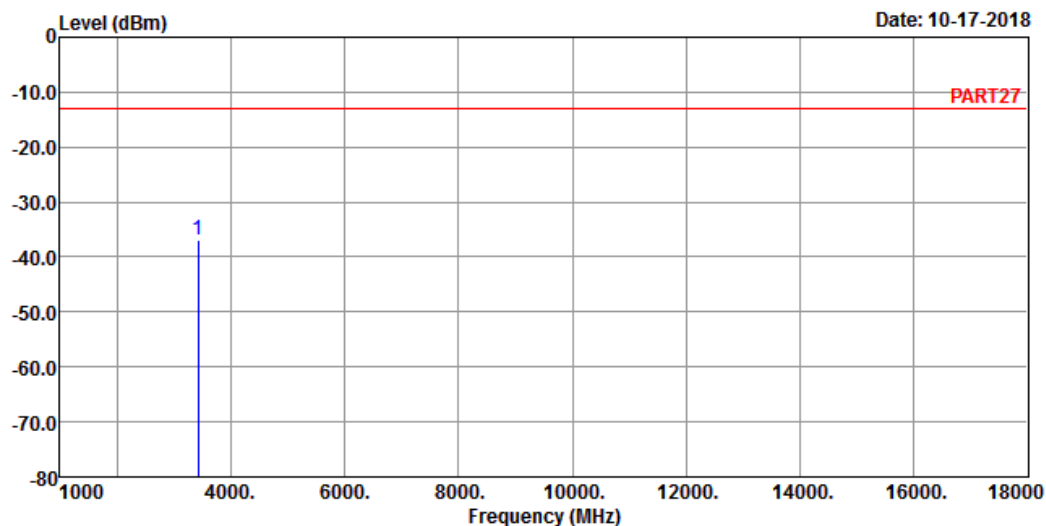
Channel Bandwidth: 10 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_10M 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 3430.00 -36.95 -28.61 -13.00 -23.95 -8.34 Peak

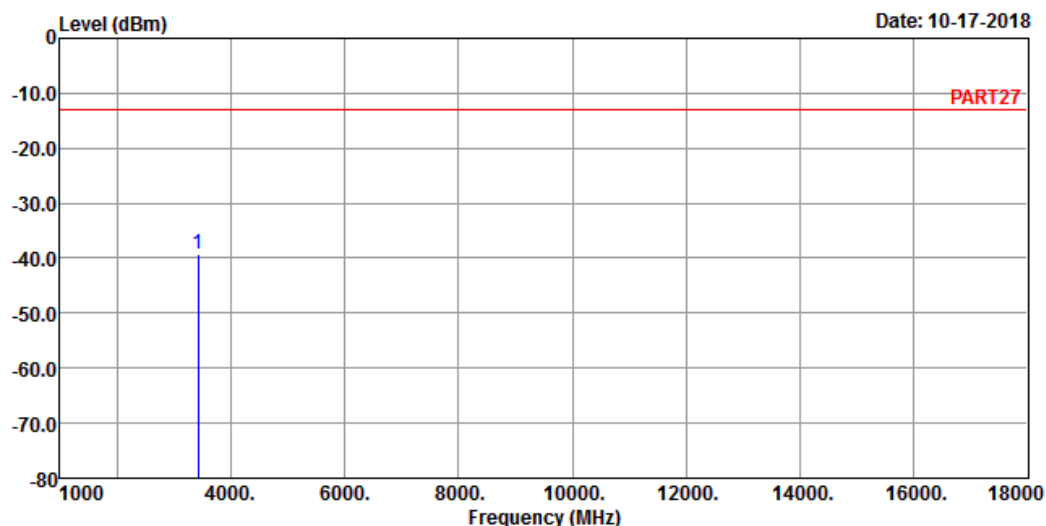


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_10M 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 3430.00 | -39.25 | -30.91 | -13.00 | -26.25 | -8.34 | Peak |

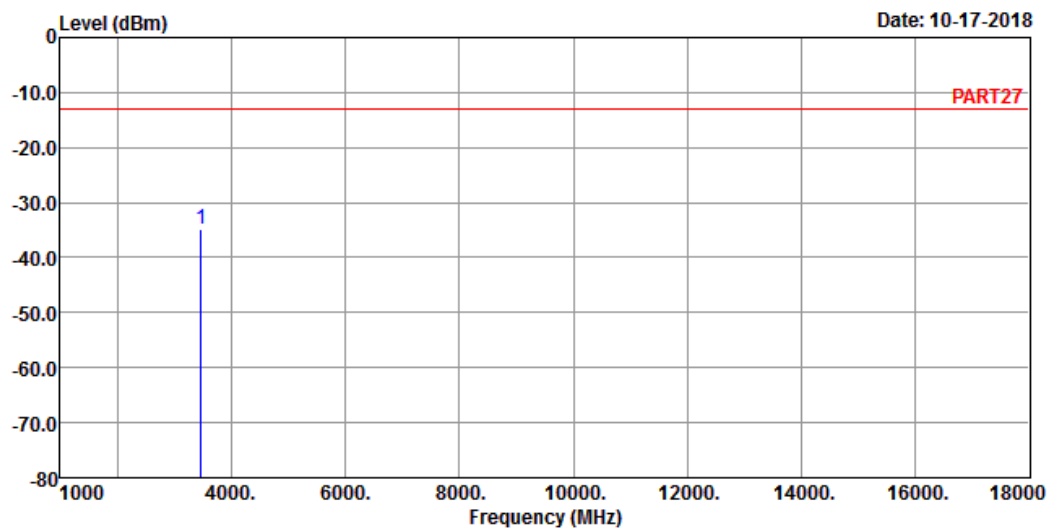
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : CAT M1 Band 4 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 3465.00 | -34.85 | -26.97 | -13.00 | -21.85 | -7.88 | Peak |

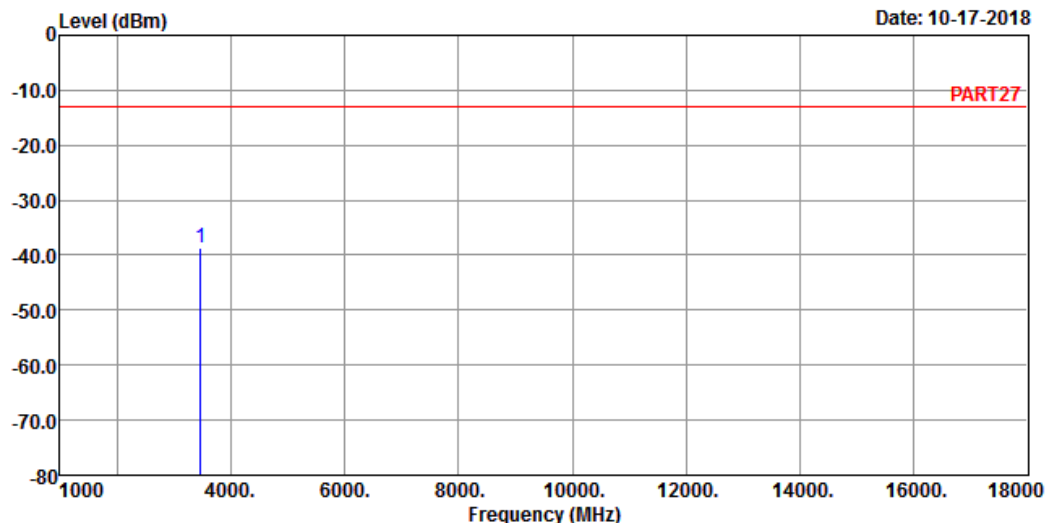


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 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 3465.00 | -38.62 | -30.74 | -13.00 | -25.62 | -7.88 | Peak |

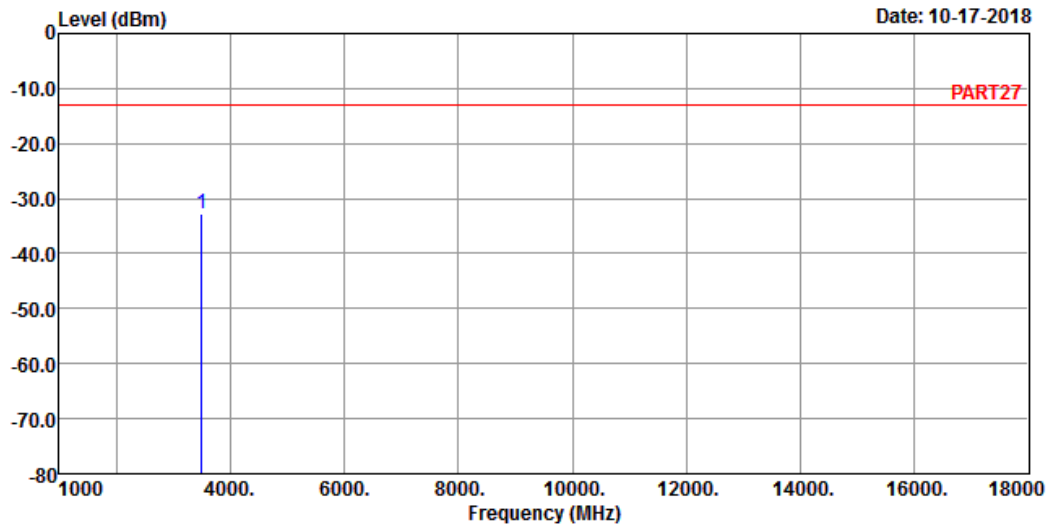
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : CAT M1 Band 4 QPSK_10M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read | | Limit | | Over | Factor | Remark |
|--------------|--------|--------|--------|--------|-------|-------|--------|--------|
| | | Level | Line | Level | Line | Limit | | |
| MHz | dBm | dBm | dBm | dBm | dB | dB | | |
| 1 pp 3500.00 | -32.85 | -25.32 | -13.00 | -19.85 | -7.53 | | Peak | |

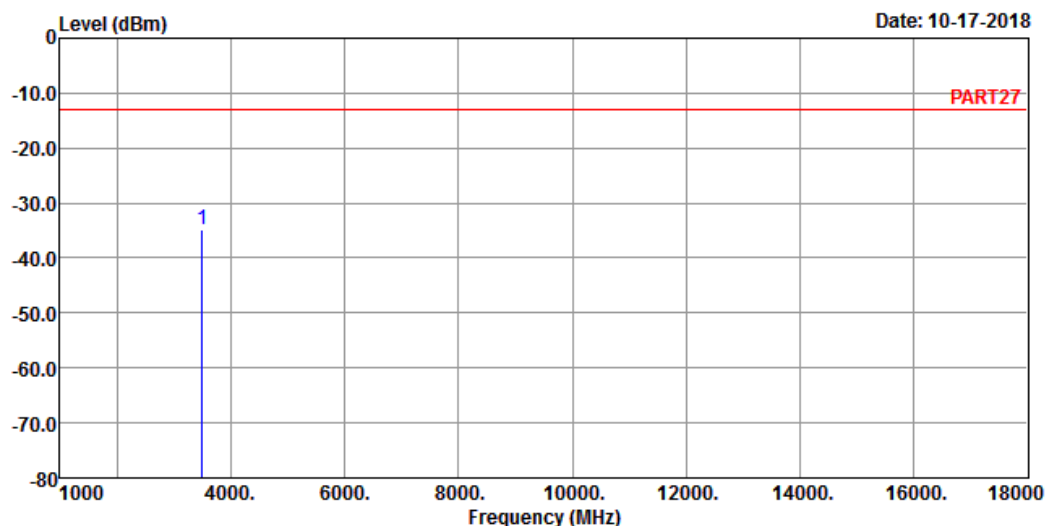


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 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 3500.00 | -34.98 | -27.45 | -13.00 | -21.98 | -7.53 | Peak |

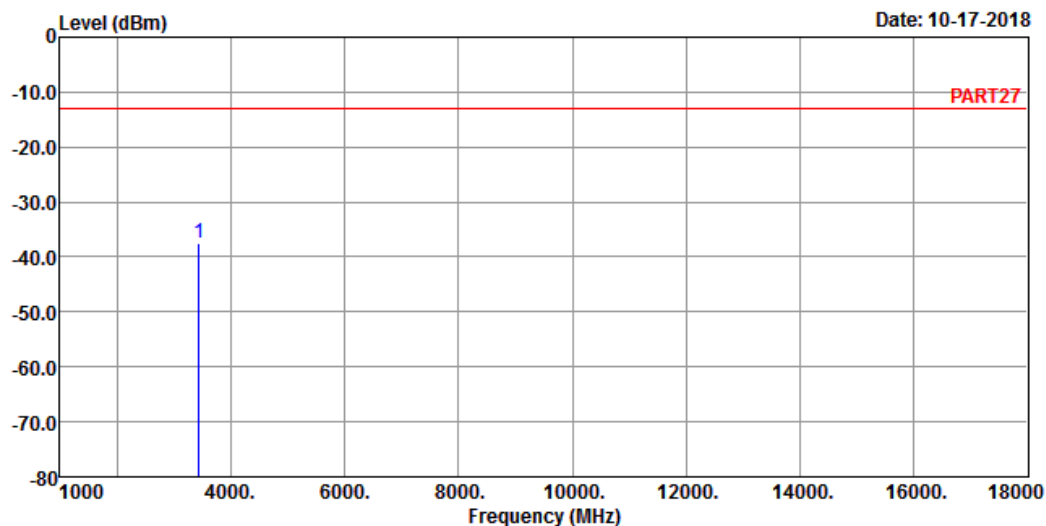
Channel Bandwidth: 15 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_15M Link_L-CH
Tested by: Thomas Wei

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

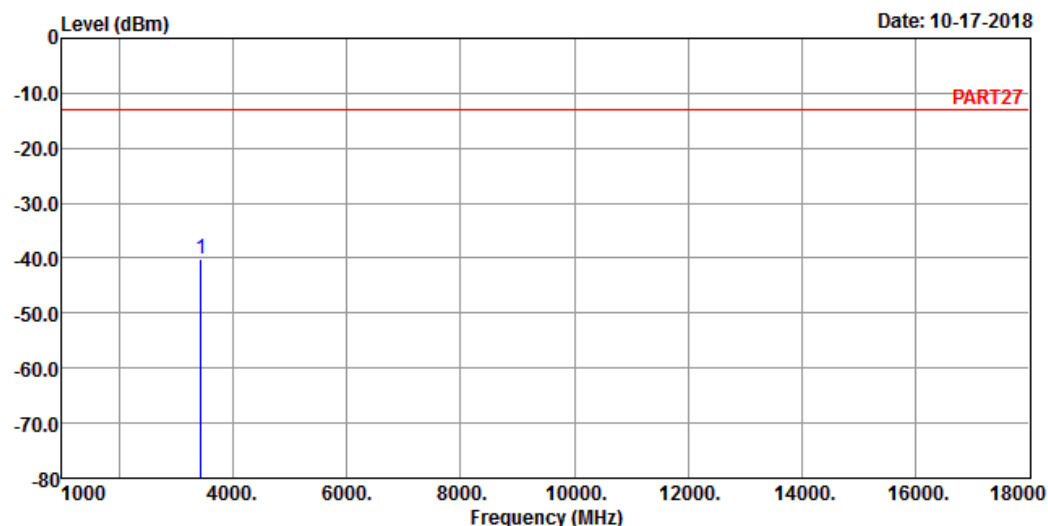
1 pp 3435.00 -37.52 -29.30 -13.00 -24.52 -8.22 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_15M 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 3435.00 | -40.01 | -31.79 | -13.00 | -27.01 | -8.22 | Peak |

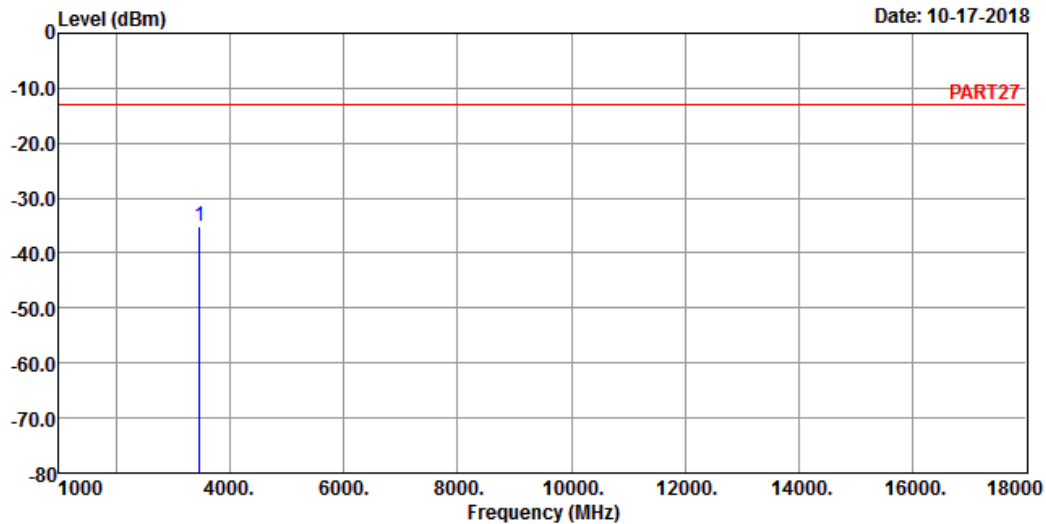
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : CAT M1 Band 4 QPSK_10M Link_M-CH
 Tested by: Thomas Wei

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

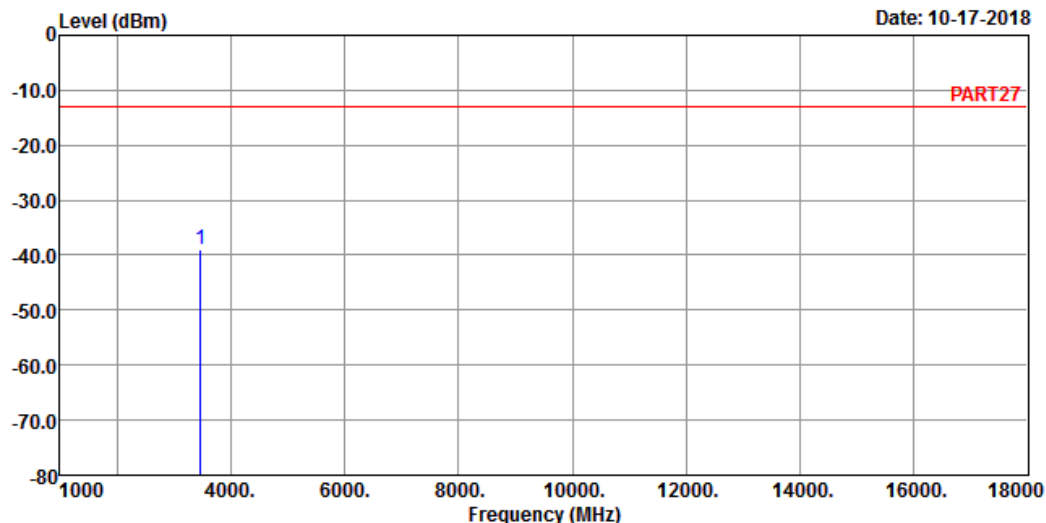
1 pp 3465.00 -35.25 -27.37 -13.00 -22.25 -7.88 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : CAT M1 Band 4 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 3465.00 | -39.01 | -31.13 | -13.00 | -26.01 | -7.88 | Peak |

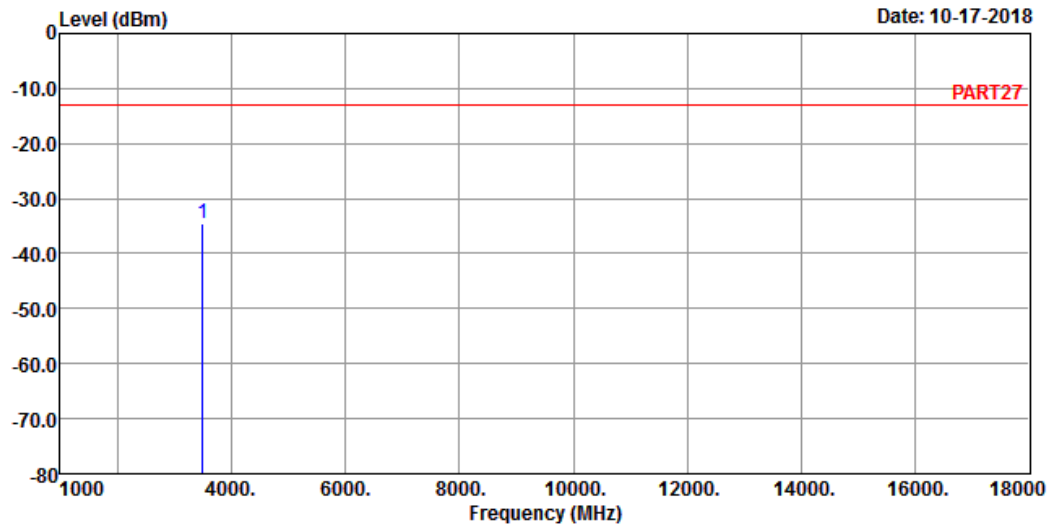
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : CAT M1 Band 4 QPSK_15M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read | | Limit | | Over | Factor | Remark |
|--------------|--------|--------|--------|--------|-------|-------|--------|--------|
| | | Level | Line | Level | Line | Limit | | |
| MHz | dBm | dBm | dBm | dBm | dB | dB | | |
| 1 pp 3495.00 | -34.52 | -26.99 | -13.00 | -21.52 | -7.53 | | Peak | |

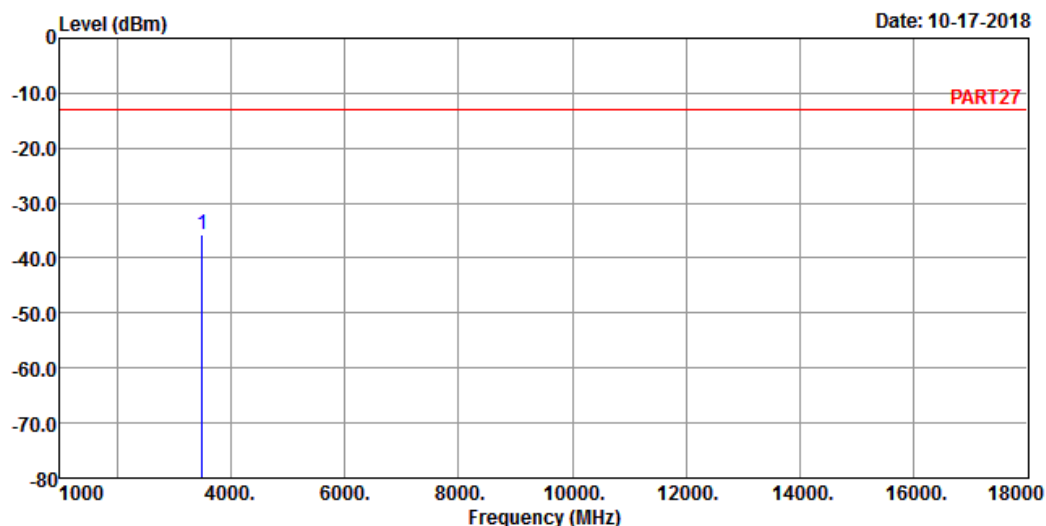


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_15M 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 3495.00 | -35.62 | -28.09 | -13.00 | -22.62 | -7.53 | Peak |

Channel Bandwidth: 20 MHz / QPSK

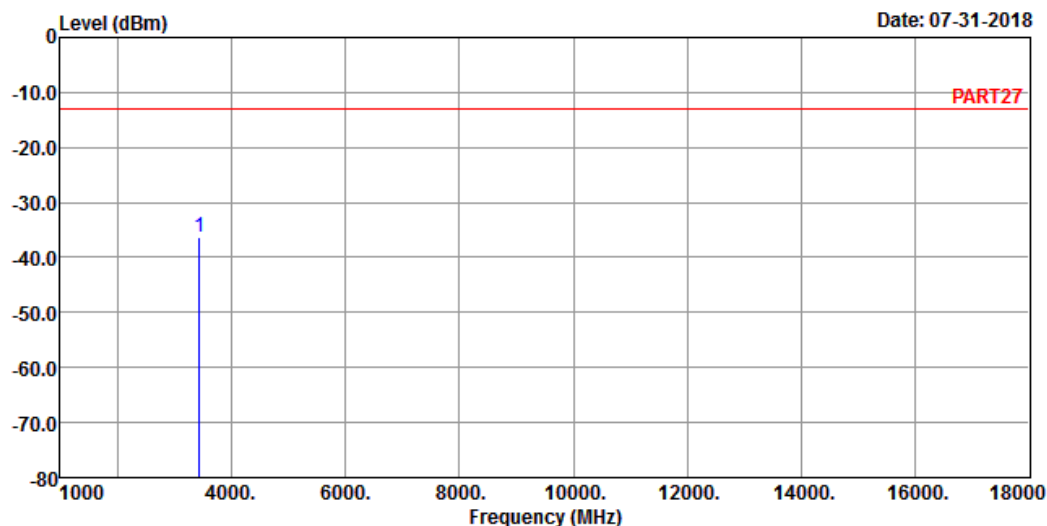
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : CAT M1 Band 4 QPSK_20M Link_L-CH

Tested by: Thomas Wei

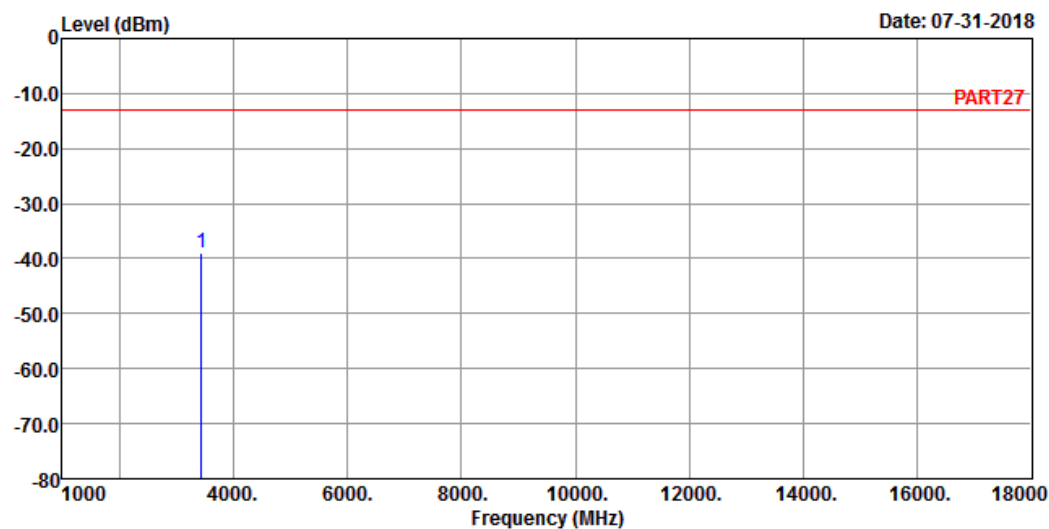
| | | Read | Limit | Over | | |
|--------------|--------|--------|--------|--------|--------|--------|
| Freq | Level | Level | Line | Limit | Factor | Remark |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3440.00 | -36.30 | -28.08 | -13.00 | -23.30 | -8.22 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : CAT M1 Band 4 QPSK_20M Link_L-CH
 Tested by: Thomas Wei

| Freq | Level | Read | Limit | Over | Factor | Remark |
|--------------|--------|--------|--------|--------|--------|--------|
| | | Level | Line | Limit | | |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3440.00 | -38.99 | -30.77 | -13.00 | -25.99 | -8.22 | Peak |

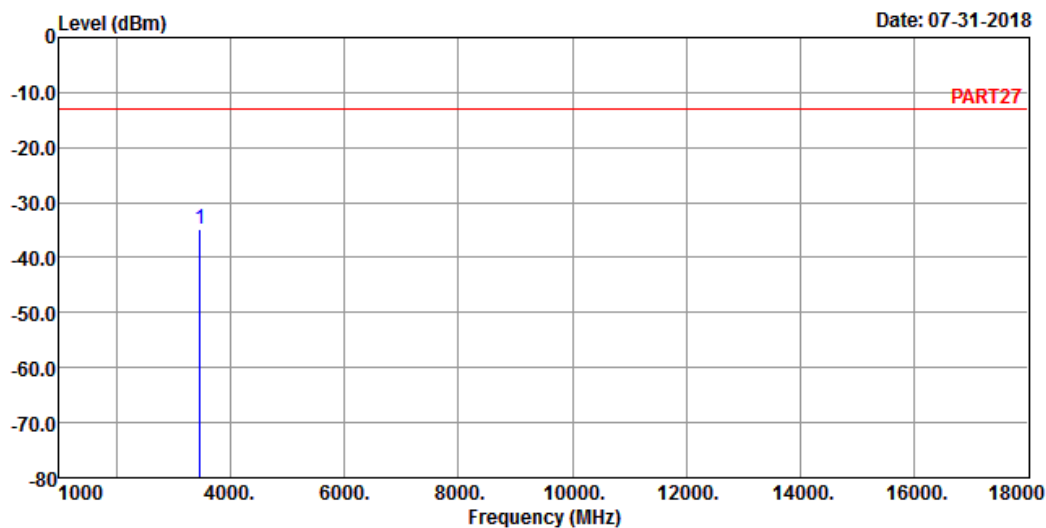
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : CAT M1 Band 4 QPSK_20M 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 3465.00 -34.78 -26.90 -13.00 -21.78 -7.88 Peak

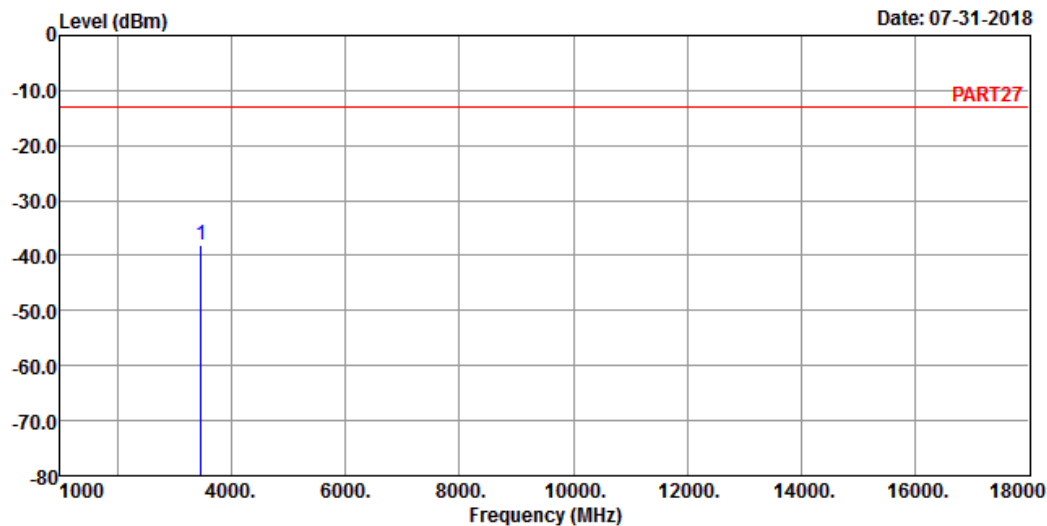


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : CAT M1 Band 4 QPSK_20M Link_M-CH
 Tested by: Thomas Wei

| Freq | Level | Read | Limit | Over | Factor | Remark |
|--------------|--------|--------|--------|--------|--------|--------|
| | | Level | Line | Limit | | |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3465.00 | -38.08 | -30.20 | -13.00 | -25.08 | -7.88 | Peak |

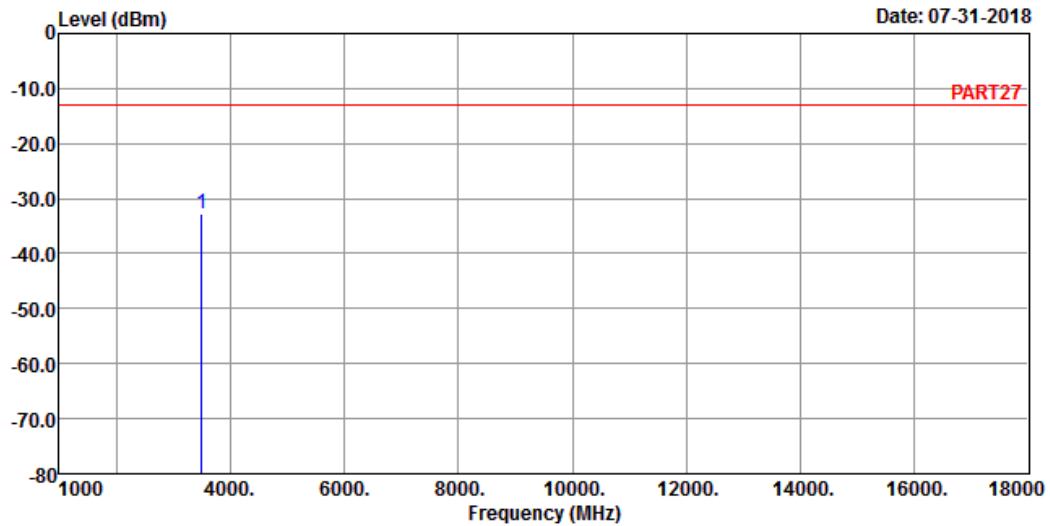
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : CAT M1 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 | |

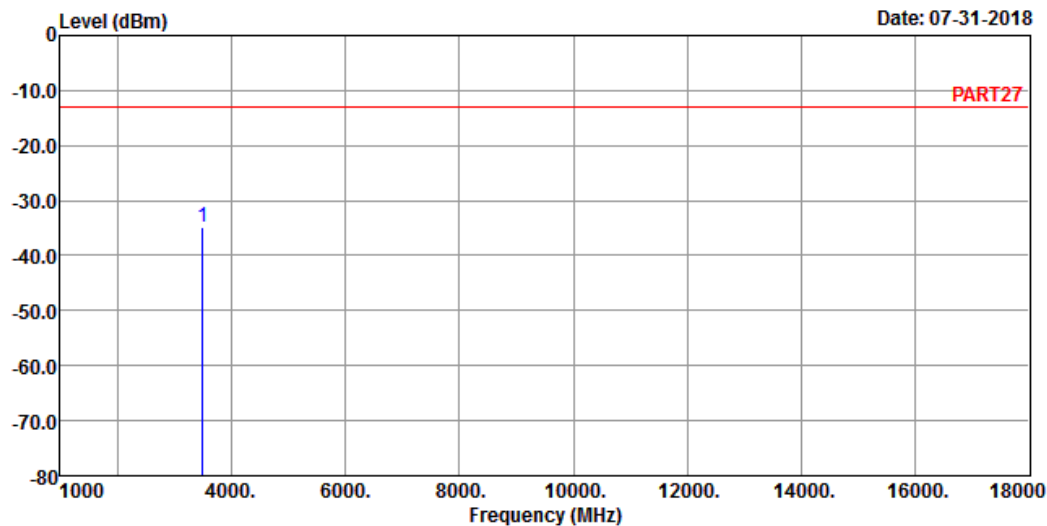
1 pp 3490.00 -32.68 -25.03 -13.00 -19.68 -7.65 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : CAT M1 Band 4 QPSK_20M Link_H-CH
 Tested by: Thomas Wei

| Freq | Level | Read | Limit | Over | Factor | Remark |
|--------------|--------|--------|--------|--------|--------|--------|
| | | Level | Line | Limit | | |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3490.00 | -34.85 | -27.20 | -13.00 | -21.85 | -7.65 | Peak |

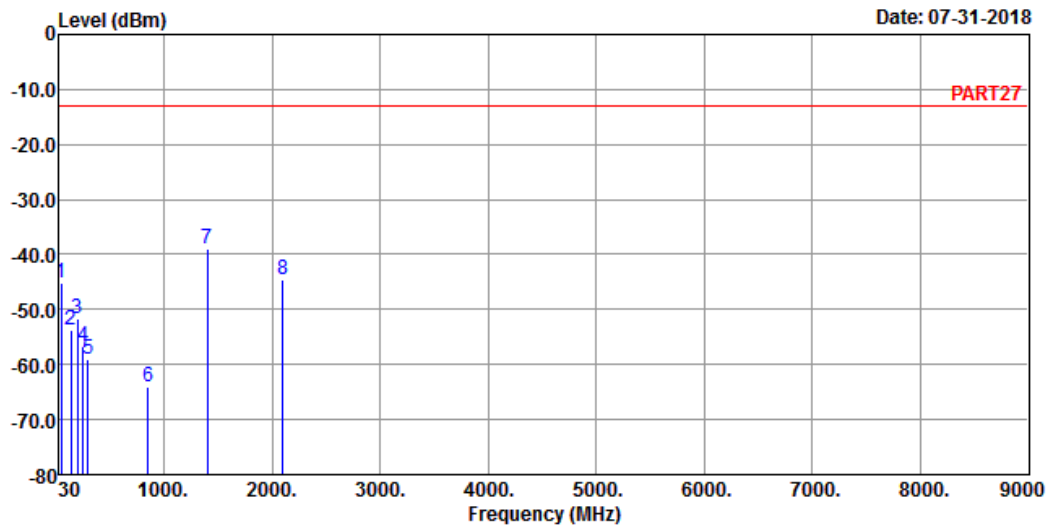
LTE Band 12
Channel Bandwidth: 1.4 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_1.4M Link_L-CH
Tested by: Thomas Wei

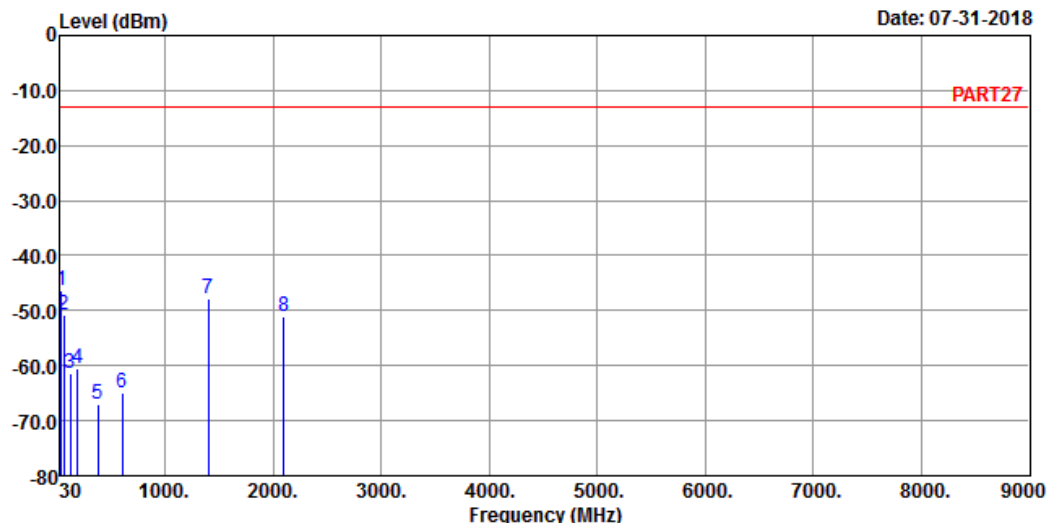
| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 44.55 | -45.07 | -43.08 | -13.00 | -32.07 | -1.99 | Peak |
| 2 | 137.67 | -53.83 | -45.17 | -13.00 | -40.83 | -8.66 | Peak |
| 3 | 193.93 | -51.78 | -44.32 | -13.00 | -38.78 | -7.46 | Peak |
| 4 | 253.10 | -56.59 | -50.54 | -13.00 | -43.59 | -6.05 | Peak |
| 5 | 296.75 | -58.90 | -51.95 | -13.00 | -45.90 | -6.95 | Peak |
| 6 | 853.53 | -64.10 | -64.41 | -13.00 | -51.10 | 0.31 | Peak |
| 7 pp | 1399.40 | -38.97 | -27.12 | -13.00 | -25.97 | -11.85 | Peak |
| 8 | 2099.10 | -44.45 | -34.29 | -13.00 | -31.45 | -10.16 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : Cat-M1 Band 12 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 | 42.61 | -46.39 | -45.45 | -13.00 | -33.39 | -0.94 | Peak |
| 2 | 59.10 | -50.85 | -43.45 | -13.00 | -37.85 | -7.40 | Peak |
| 3 | 122.15 | -61.29 | -51.67 | -13.00 | -48.29 | -9.62 | Peak |
| 4 | 189.08 | -60.56 | -53.44 | -13.00 | -47.56 | -7.12 | Peak |
| 5 | 376.29 | -67.10 | -61.02 | -13.00 | -54.10 | -6.08 | Peak |
| 6 | 601.33 | -64.84 | -64.08 | -13.00 | -51.84 | -0.76 | Peak |
| 7 | 1399.40 | -47.70 | -35.85 | -13.00 | -34.70 | -11.85 | Peak |
| 8 | 2099.10 | -51.13 | -40.97 | -13.00 | -38.13 | -10.16 | Peak |

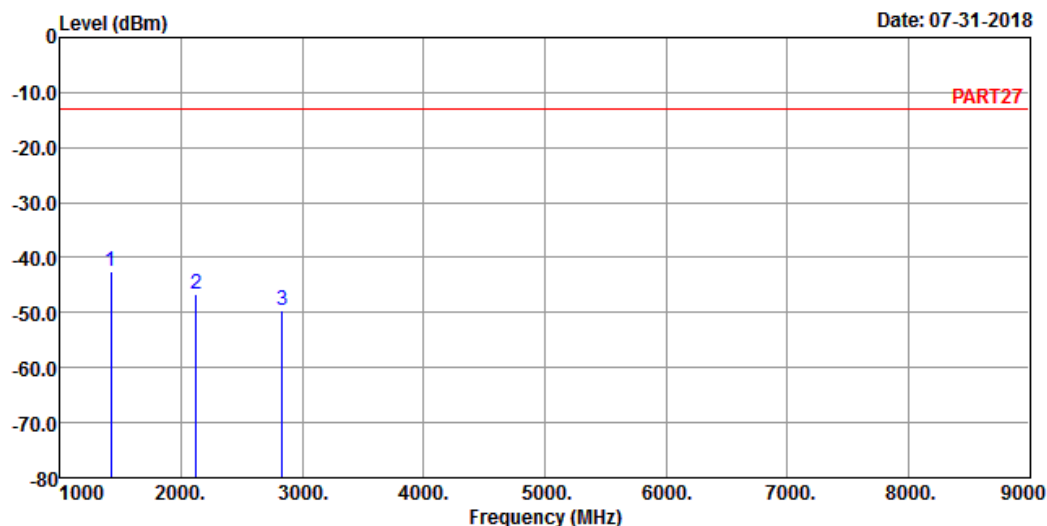
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 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 pp | 1415.00 | -42.41 | -30.33 | -13.00 | -29.41 | -12.08 | Peak |
| 2 | 2122.50 | -46.70 | -36.83 | -13.00 | -33.70 | -9.87 | Peak |
| 3 | 2830.00 | -49.54 | -41.06 | -13.00 | -36.54 | -8.48 | Peak |

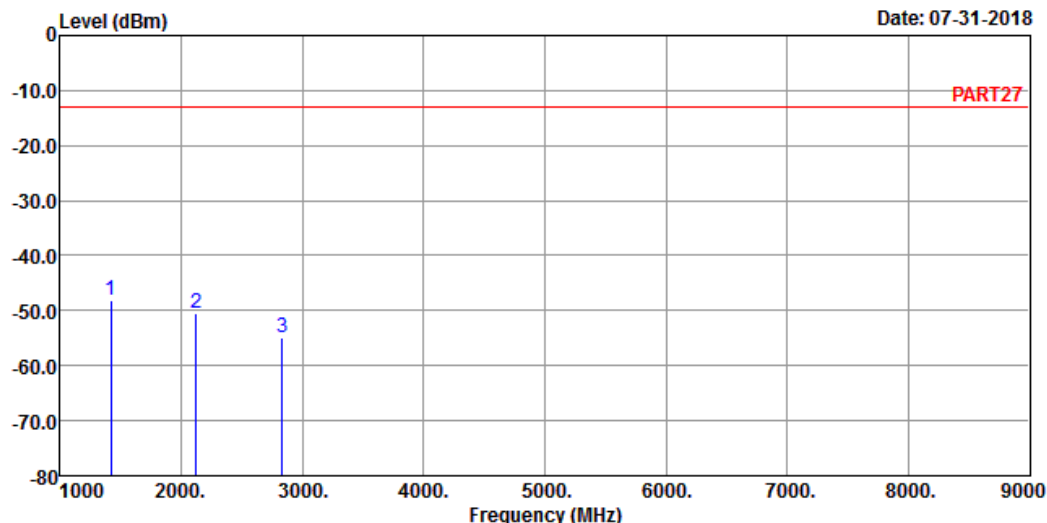


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : Cat-M1 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 pp | 1415.00 | -48.11 | -36.03 | -13.00 | -35.11 | -12.08 | Peak |
| 2 | 2122.50 | -50.38 | -40.51 | -13.00 | -37.38 | -9.87 | Peak |
| 3 | 2830.00 | -54.91 | -46.43 | -13.00 | -41.91 | -8.48 | Peak |

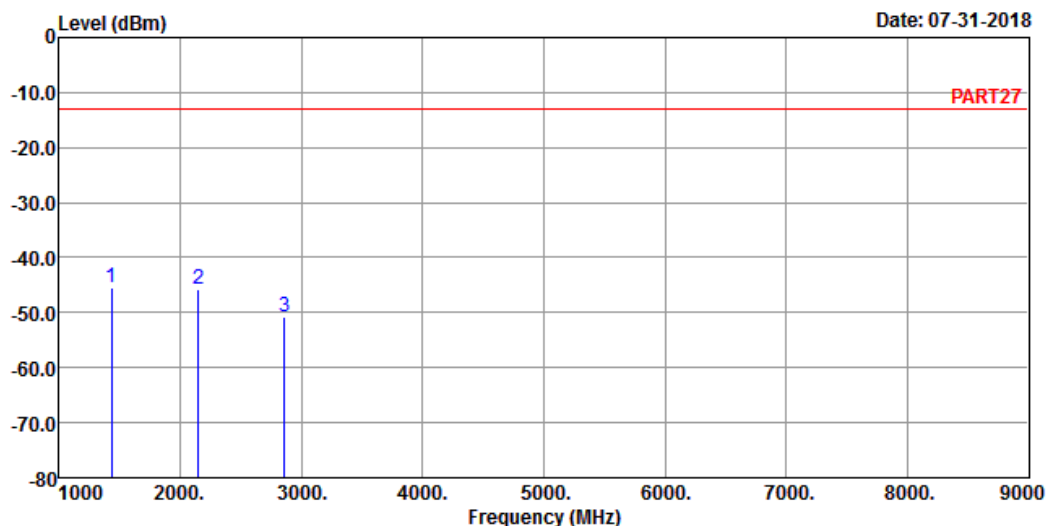
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_1.4M 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 | 1430.60 | -45.53 | -33.22 | -13.00 | -32.53 | -12.31 | Peak |
| 2 | 2145.90 | -45.83 | -36.36 | -13.00 | -32.83 | -9.47 | Peak |
| 3 | 2861.20 | -50.68 | -42.25 | -13.00 | -37.68 | -8.43 | Peak |

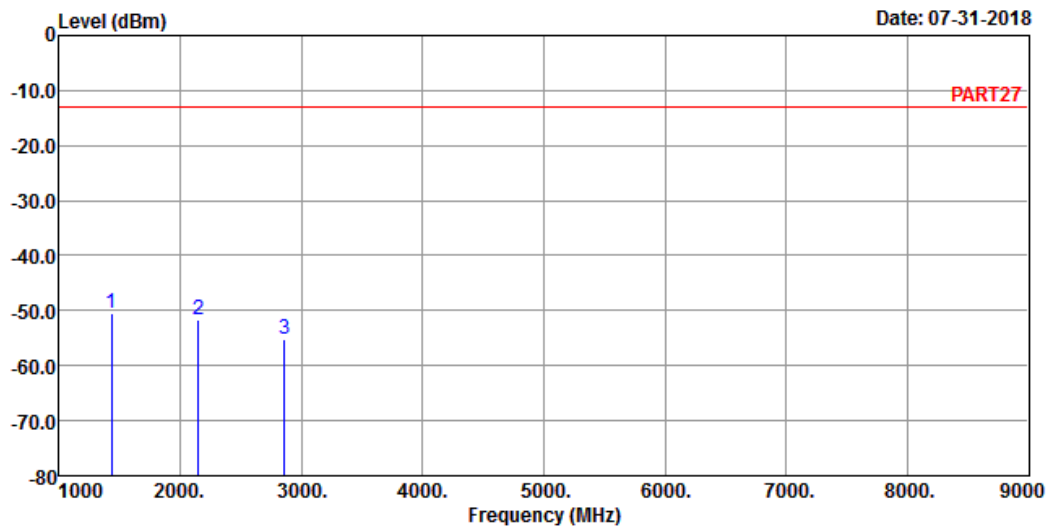


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : Cat-M1 Band 12 QPSK_1.4M 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 | 1430.60 | -50.61 | -38.30 | -13.00 | -37.61 | -12.31 | Peak |
| 2 | 2145.90 | -51.59 | -42.12 | -13.00 | -38.59 | -9.47 | Peak |
| 3 | 2861.20 | -55.09 | -46.66 | -13.00 | -42.09 | -8.43 | Peak |

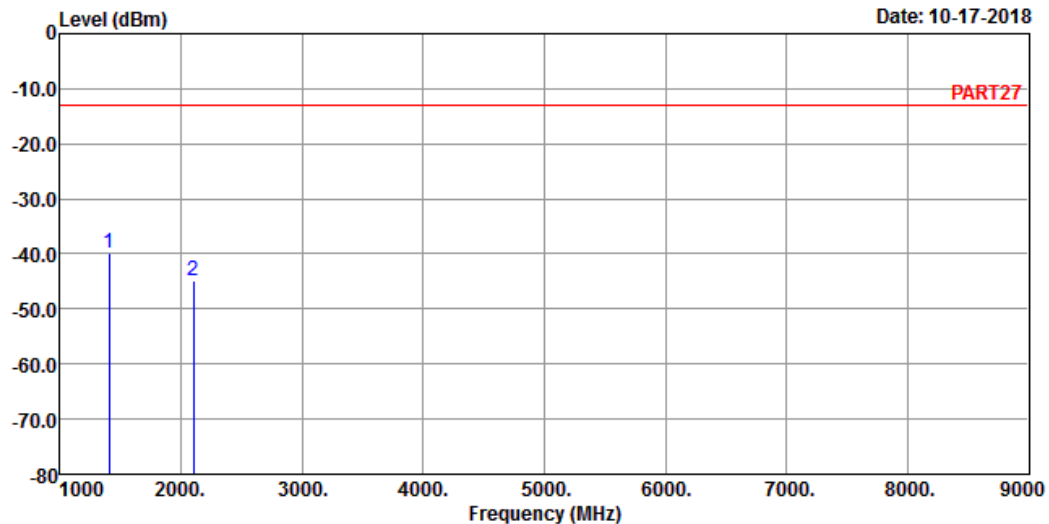
Channel Bandwidth: 3 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_3M 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 | 1401.00 | -39.99 | -28.08 | -13.00 | -26.99 | -11.91 | Peak |
| 2 | 2101.50 | -44.85 | -34.69 | -13.00 | -31.85 | -10.16 | Peak |

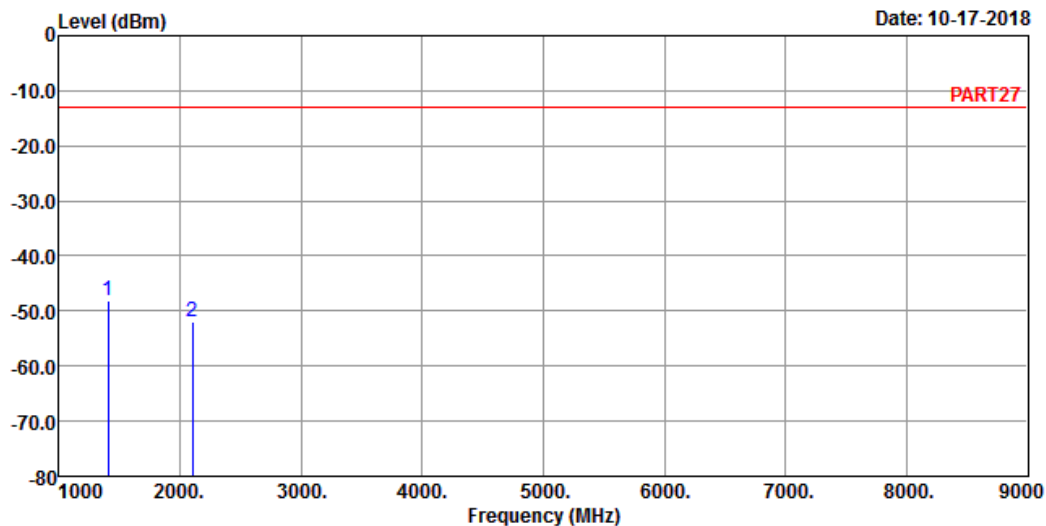


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : Cat-M1 Band 12 QPSK_3M 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 | 1401.00 | -48.23 | -36.32 | -13.00 | -35.23 | -11.91 | Peak |
| 2 | 2101.50 | -51.85 | -41.69 | -13.00 | -38.85 | -10.16 | Peak |

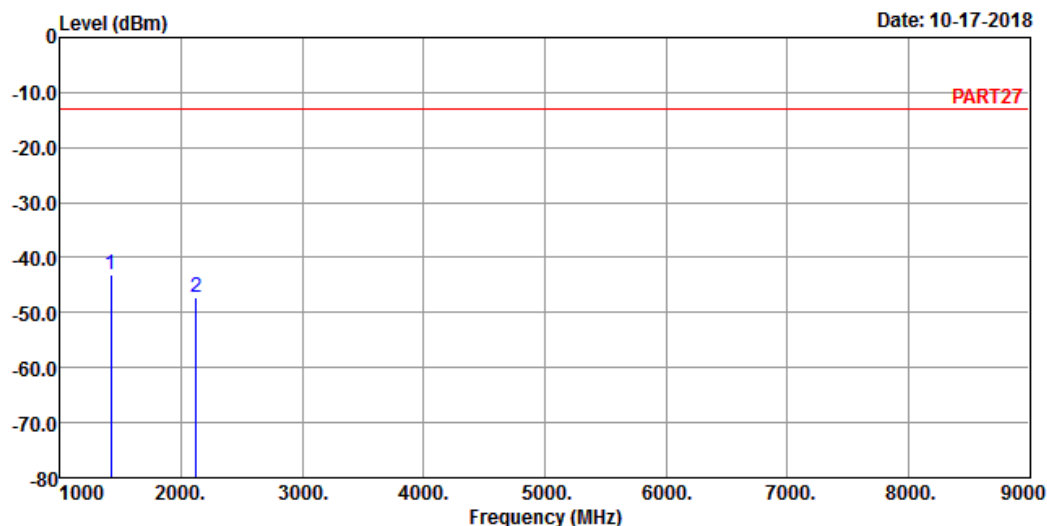
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_3M 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 | 1415.00 | -42.98 | -30.90 | -13.00 | -29.98 | -12.08 | Peak |
| 2 | 2122.50 | -47.23 | -37.36 | -13.00 | -34.23 | -9.87 | Peak |

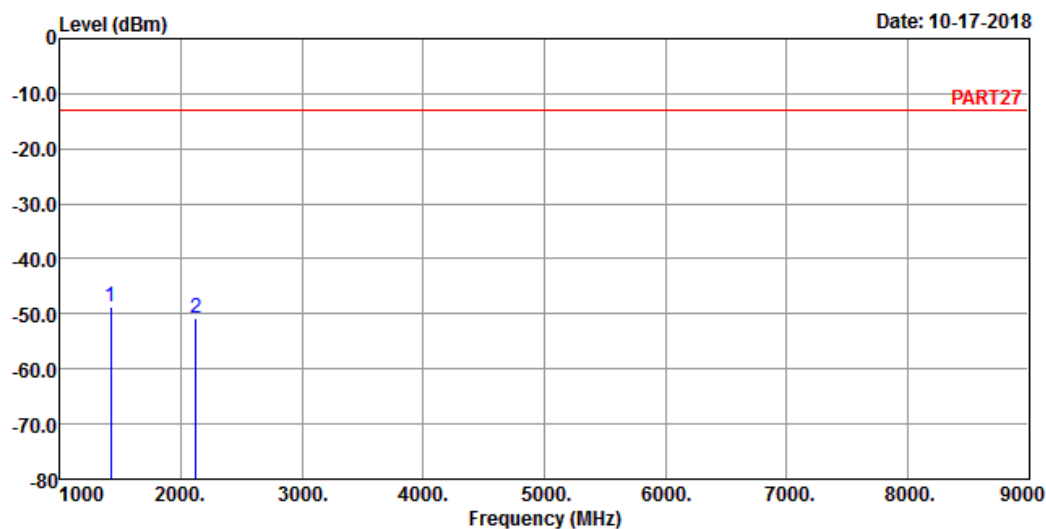


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : Cat-M1 Band 12 QPSK_3M 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 | 1415.00 | -48.85 | -36.77 | -13.00 | -35.85 | -12.08 | Peak |
| 2 | 2122.50 | -50.79 | -40.92 | -13.00 | -37.79 | -9.87 | Peak |

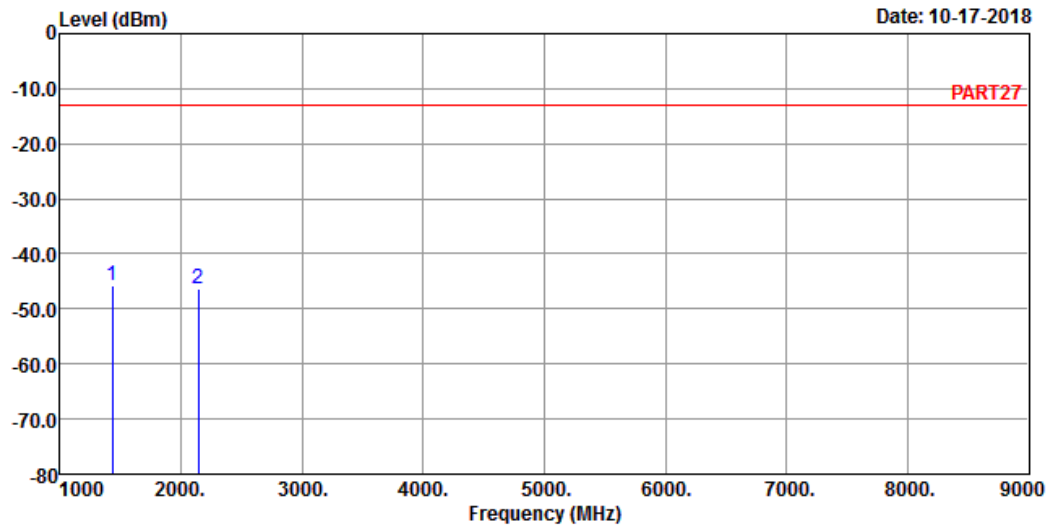
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : Cat-M1 Band 12 QPSK_3M 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 | 1429.00 | -45.85 | -33.60 | -13.00 | -32.85 | -12.25 | Peak |
| 2 | 2143.50 | -46.23 | -36.76 | -13.00 | -33.23 | -9.47 | Peak |

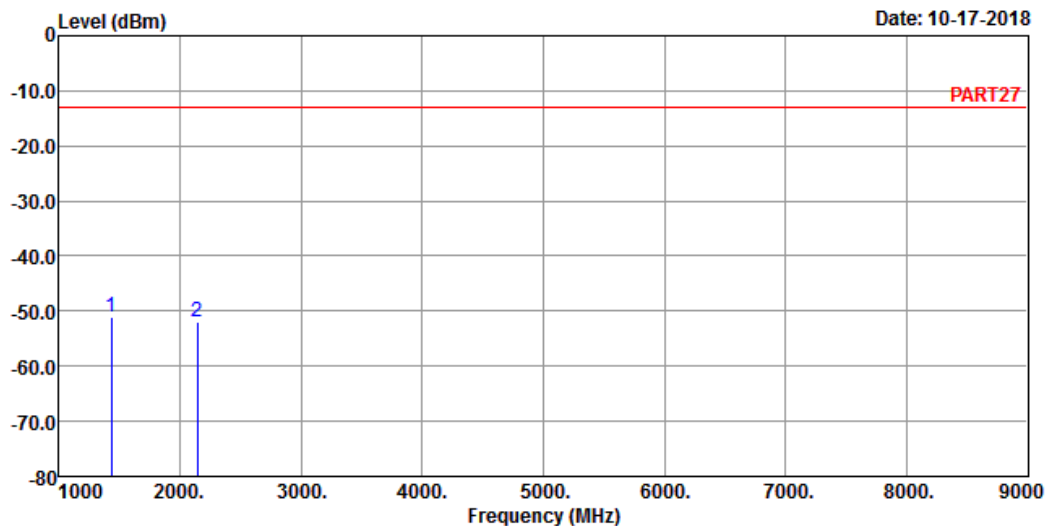


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : Cat-M1 Band 12 QPSK_3M 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 | 1429.00 | -50.98 | -38.73 | -13.00 | -37.98 | -12.25 | Peak |
| 2 | 2143.50 | -51.85 | -42.38 | -13.00 | -38.85 | -9.47 | Peak |

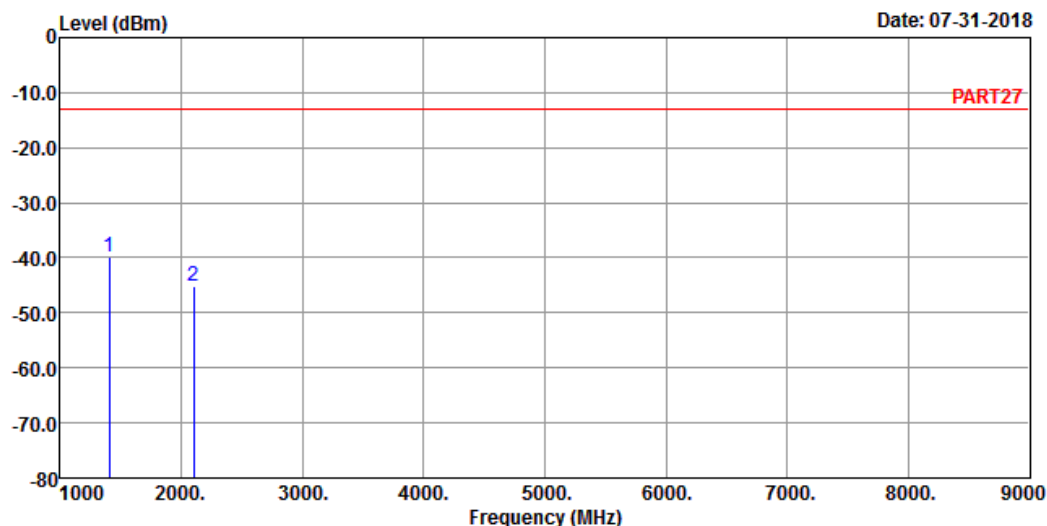
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_5M Link_L-CH
Tested by: Thomas Wei

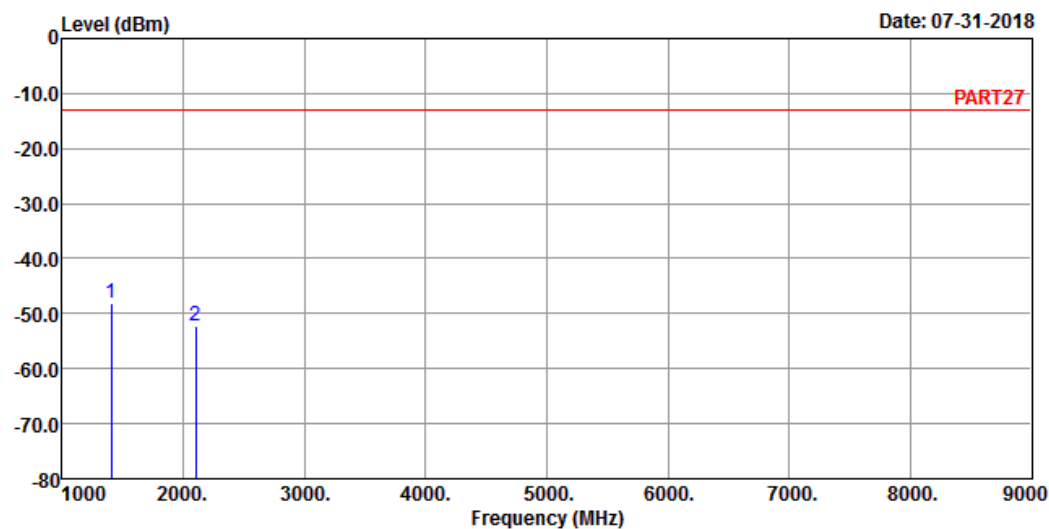
| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|---------|--------|------------|------------|------------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp | 1403.00 | -39.85 | -27.94 | -13.00 | -26.85 | -11.91 | Peak |
| 2 | 2104.50 | -45.12 | -34.96 | -13.00 | -32.12 | -10.16 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : Cat-M1 Band 12 QPSK_5M 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 | 1403.00 | -48.21 | -36.30 | -13.00 | -35.21 | -11.91 | Peak |
| 2 | 2104.50 | -52.13 | -41.97 | -13.00 | -39.13 | -10.16 | Peak |

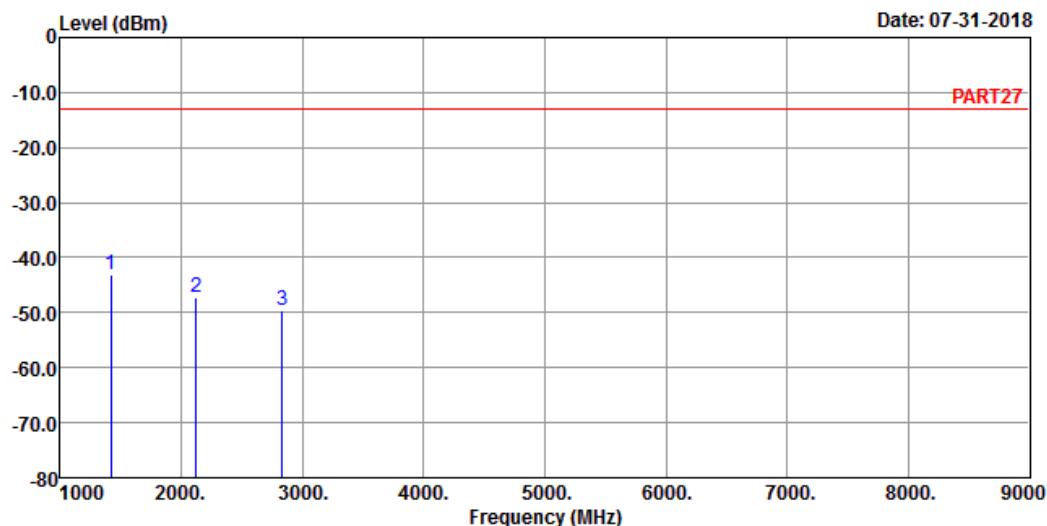
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_5M Link_M-CH
Tested by: Thomas Wei

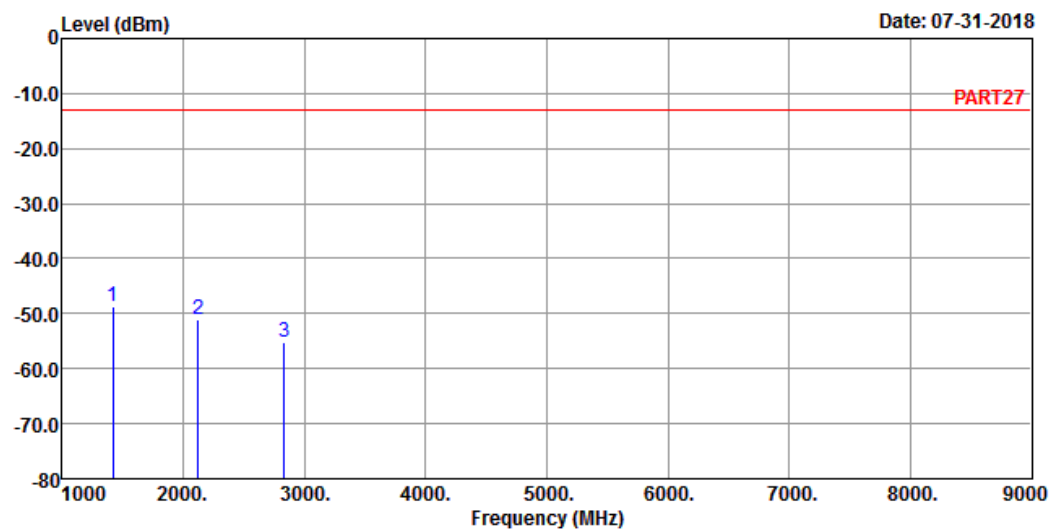
| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp | 1415.00 | -42.98 | -30.90 | -13.00 | -29.98 | -12.08 | Peak |
| 2 | 2122.50 | -47.12 | -37.25 | -13.00 | -34.12 | -9.87 | Peak |
| 3 | 2830.00 | -49.52 | -41.04 | -13.00 | -36.52 | -8.48 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : Cat-M1 Band 12 QPSK_5M 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 | 1415.00 | -48.85 | -36.77 | -13.00 | -35.85 | -12.08 | Peak |
| 2 | 2122.50 | -51.01 | -41.14 | -13.00 | -38.01 | -9.87 | Peak |
| 3 | 2830.00 | -55.23 | -46.75 | -13.00 | -42.23 | -8.48 | Peak |

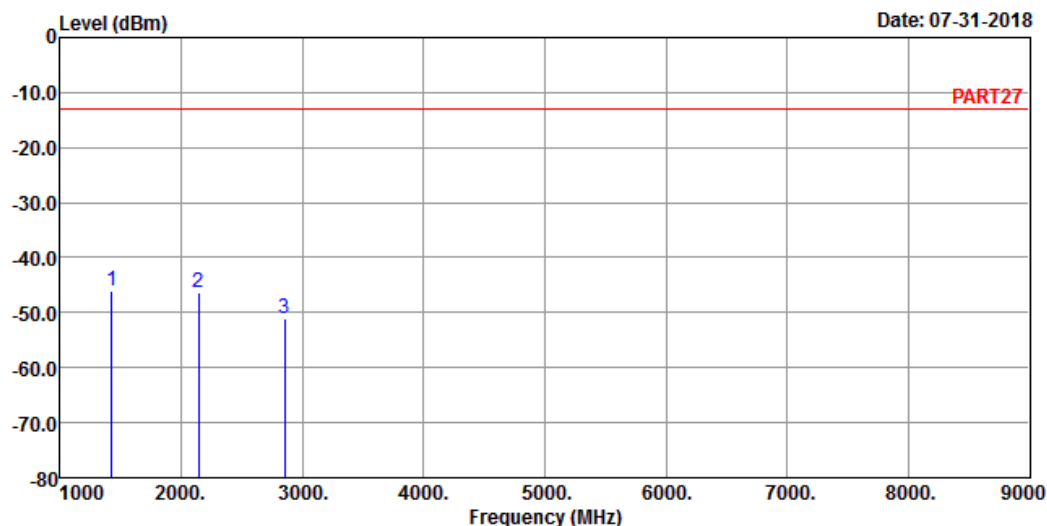
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_5M Link_H-CH
Tested by: Thomas Wei

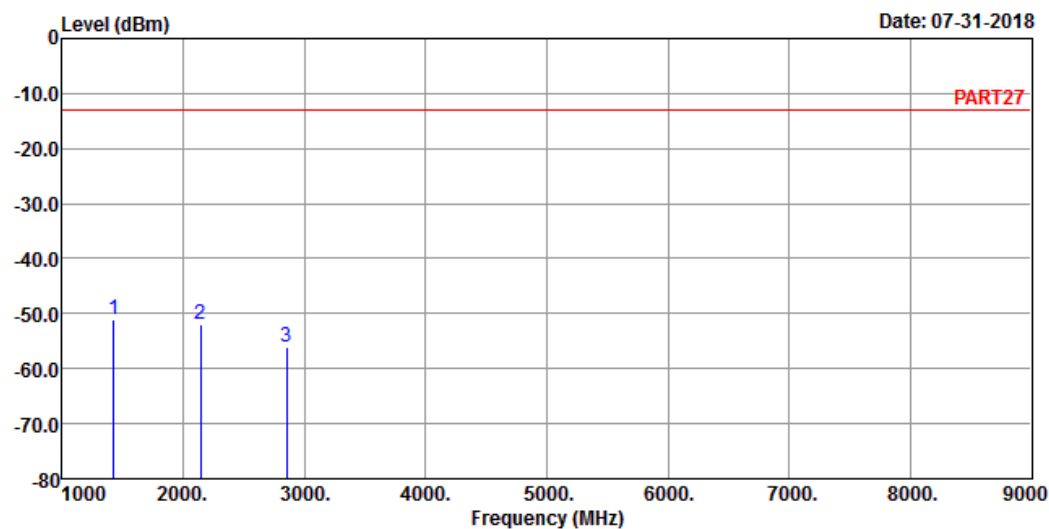
| | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|---------------|
| | Freq | Level | Level | Line | Limit | Factor Remark |
| | MHz | dBm | dBm | dBm | dB | dB |
| 1 pp | 1427.00 | -45.98 | -33.73 | -13.00 | -32.98 | -12.25 Peak |
| 2 | 2140.50 | -46.21 | -36.64 | -13.00 | -33.21 | -9.57 Peak |
| 3 | 2854.00 | -51.11 | -42.67 | -13.00 | -38.11 | -8.44 Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : Cat-M1 Band 12 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 | 1427.00 | -51.13 | -38.88 | -13.00 | -38.13 | -12.25 | Peak |
| 2 | 2140.50 | -51.98 | -42.41 | -13.00 | -38.98 | -9.57 | Peak |
| 3 | 2854.00 | -56.12 | -47.68 | -13.00 | -43.12 | -8.44 | Peak |

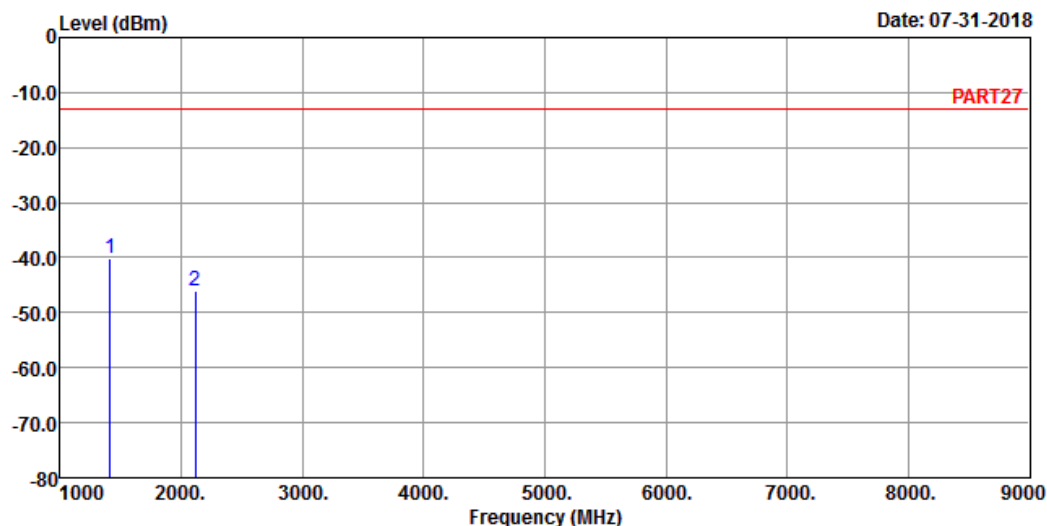
Channel Bandwidth: 10 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_10M 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 | 1408.00 | -40.12 | -28.16 | -13.00 | -27.12 | -11.96 | Peak |
| 2 | 2112.00 | -45.98 | -36.02 | -13.00 | -32.98 | -9.96 | Peak |

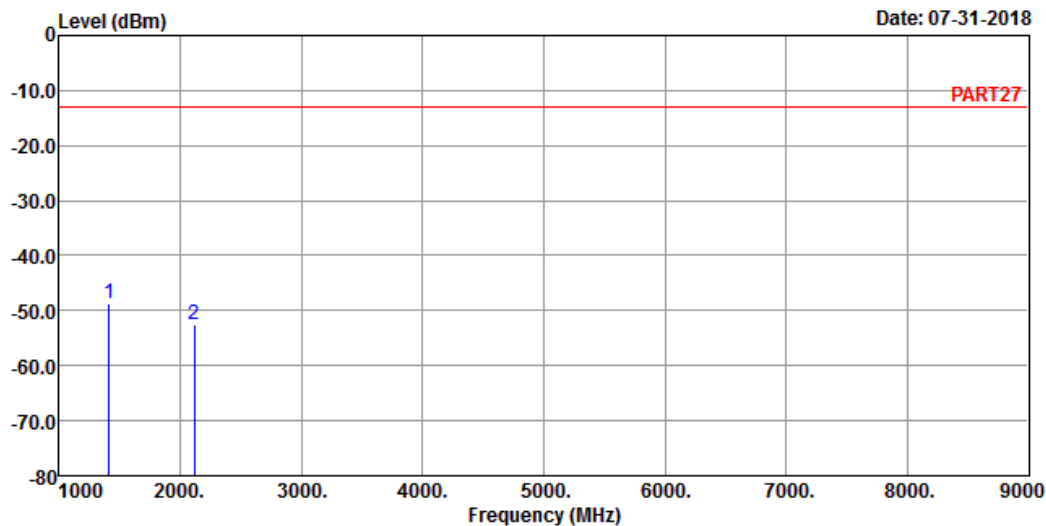


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 07-31-2018



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : Cat-M1 Band 12 QPSK_10M 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 | 1408.00 | -48.65 | -36.69 | -13.00 | -35.65 | -11.96 | Peak |
| 2 | 2112.00 | -52.65 | -42.69 | -13.00 | -39.65 | -9.96 | Peak |

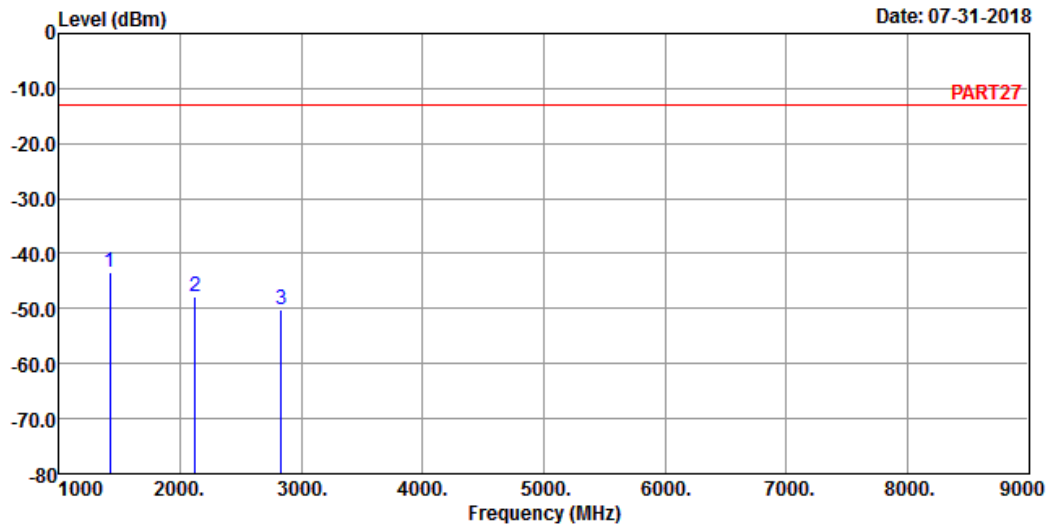
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : Cat-M1 Band 12 QPSK_10M Link_M-CH
 Tested by: Thomas Wei

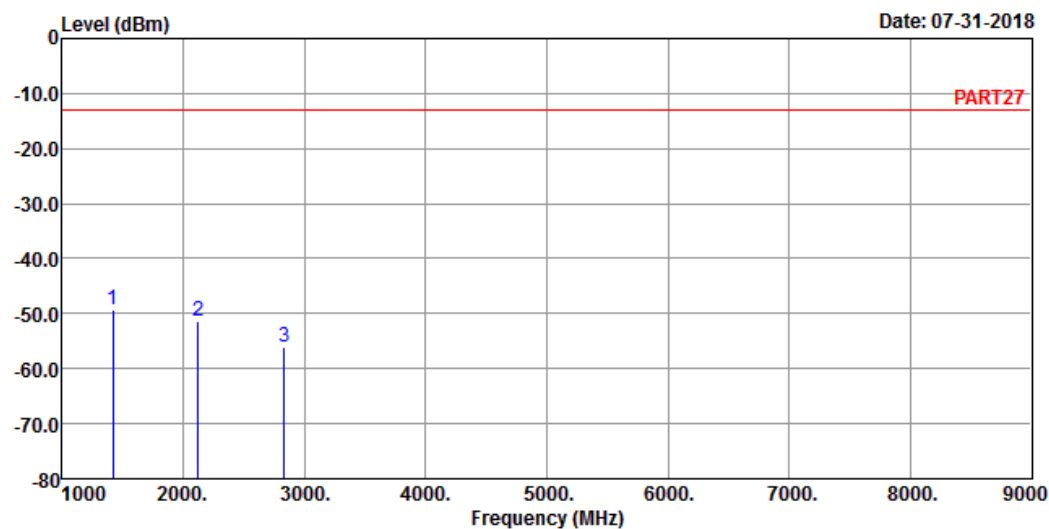
| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp | 1415.00 | -43.52 | -31.44 | -13.00 | -30.52 | -12.08 | Peak |
| 2 | 2122.50 | -47.85 | -37.98 | -13.00 | -34.85 | -9.87 | Peak |
| 3 | 2830.00 | -50.23 | -41.75 | -13.00 | -37.23 | -8.48 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : Cat-M1 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 | 1415.00 | -49.21 | -37.13 | -13.00 | -36.21 | -12.08 | Peak |
| 2 | 2122.50 | -51.36 | -41.49 | -13.00 | -38.36 | -9.87 | Peak |
| 3 | 2830.00 | -55.98 | -47.50 | -13.00 | -42.98 | -8.48 | Peak |

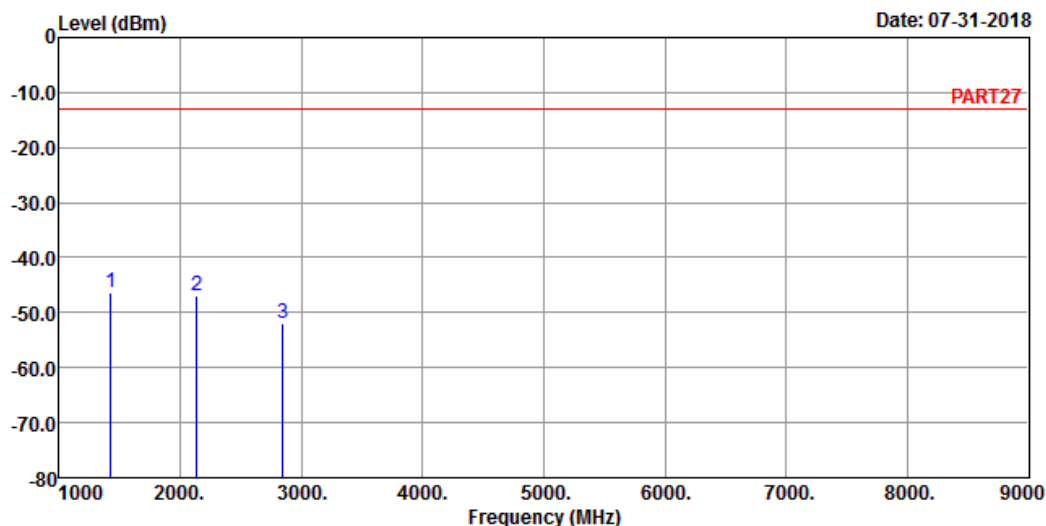
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : Cat-M1 Band 12 QPSK_10M Link_H-CH
 Tested by: Thomas Wei

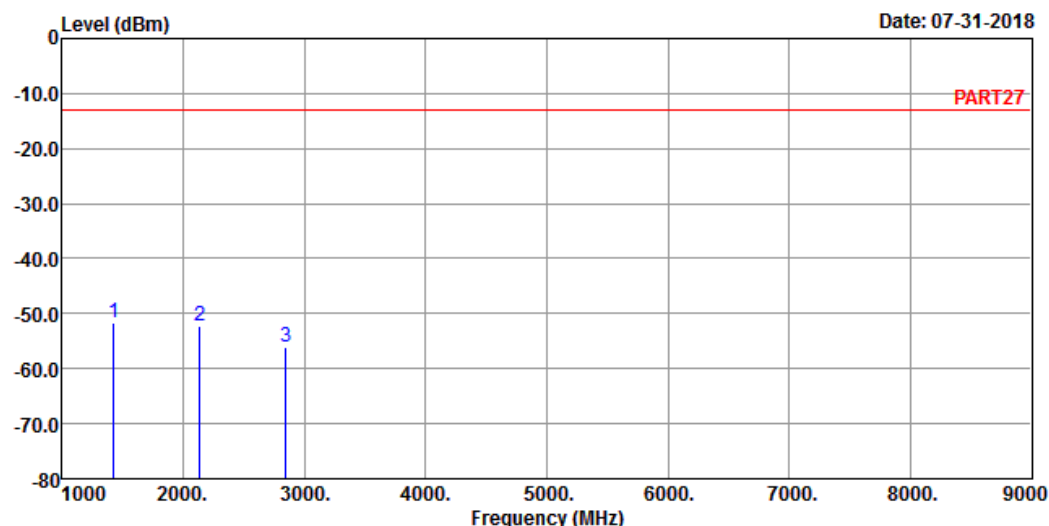
| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp | 1422.00 | -46.25 | -34.06 | -13.00 | -33.25 | -12.19 | Peak |
| 2 | 2133.00 | -46.98 | -37.31 | -13.00 | -33.98 | -9.67 | Peak |
| 3 | 2844.00 | -51.85 | -43.39 | -13.00 | -38.85 | -8.46 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : Cat-M1 Band 12 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 | 1422.00 | -51.65 | -39.46 | -13.00 | -38.65 | -12.19 | Peak |
| 2 | 2133.00 | -52.25 | -42.58 | -13.00 | -39.25 | -9.67 | Peak |
| 3 | 2844.00 | -56.21 | -47.75 | -13.00 | -43.21 | -8.46 | Peak |

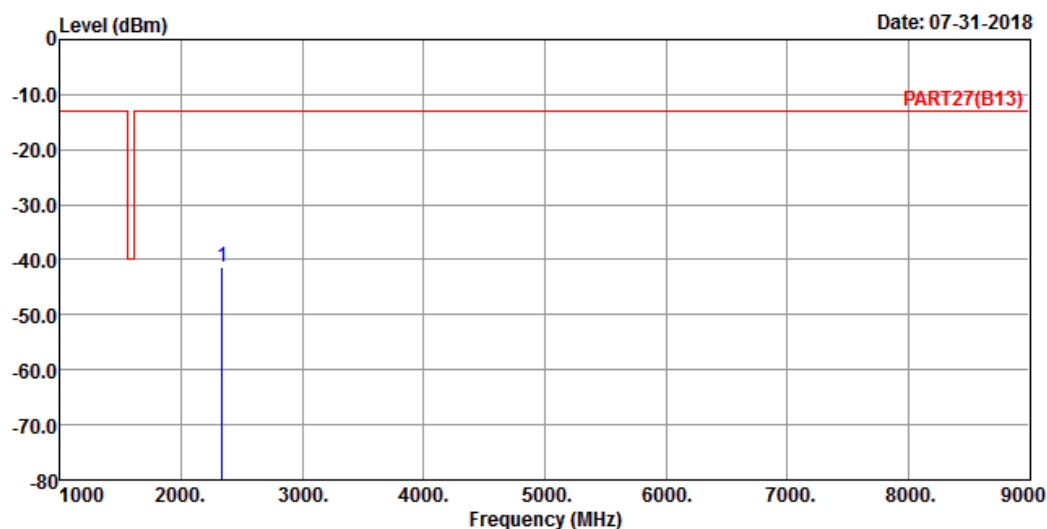
LTE Band 13
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : CAT M1 Band 13 QPSK_5M 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 2338.50 | -41.44 | -32.06 | -13.00 | -28.44 | -9.38 | Peak |

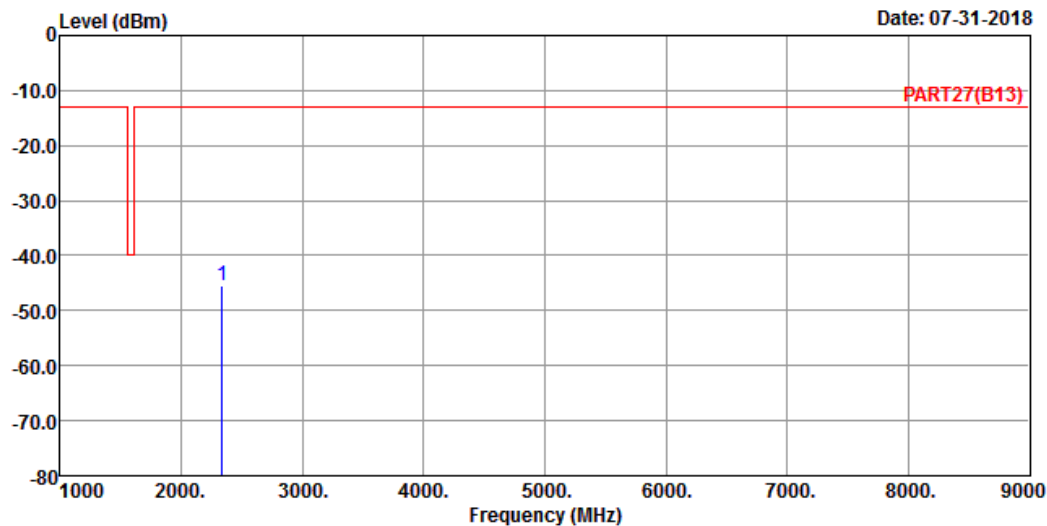


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5

Condition: PART27(B13) VERTICAL

Remak : CAT M1 Band 13 QPSK_5M Link_L-CH

Tested by: Thomas Wei

| Freq | Level | Read | Limit | Over | | Factor | Remark |
|--------------|--------|--------|--------|--------|-------|--------|--------|
| | | Level | Line | Limit | Limit | | |
| MHz | dBm | dBm | dBm | dB | dB | dB | |
| 1 pp 2338.50 | -45.38 | -36.00 | -13.00 | -32.38 | -9.38 | Peak | |

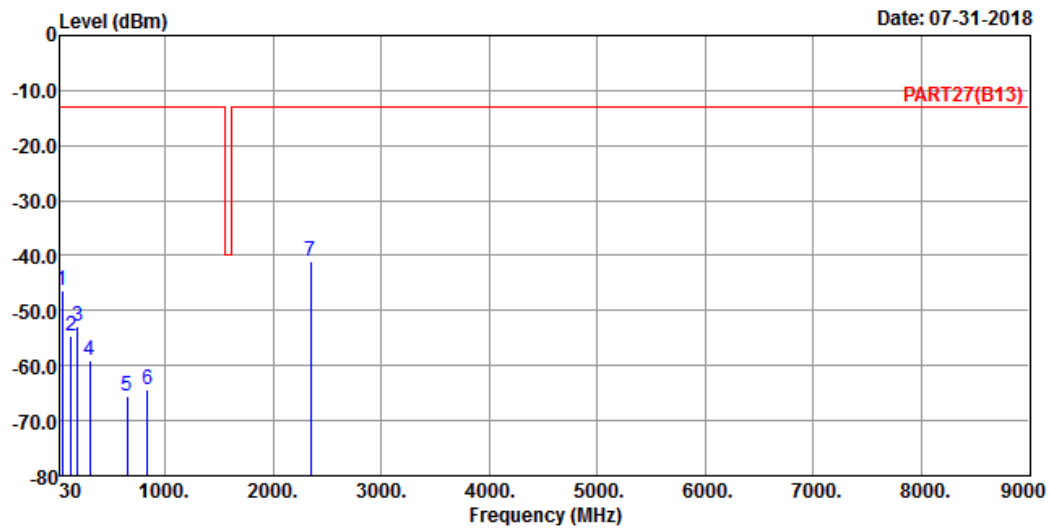
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : CAT M1 Band 13 QPSK_5M Link_M-CH
Tested by: Thomas Wei

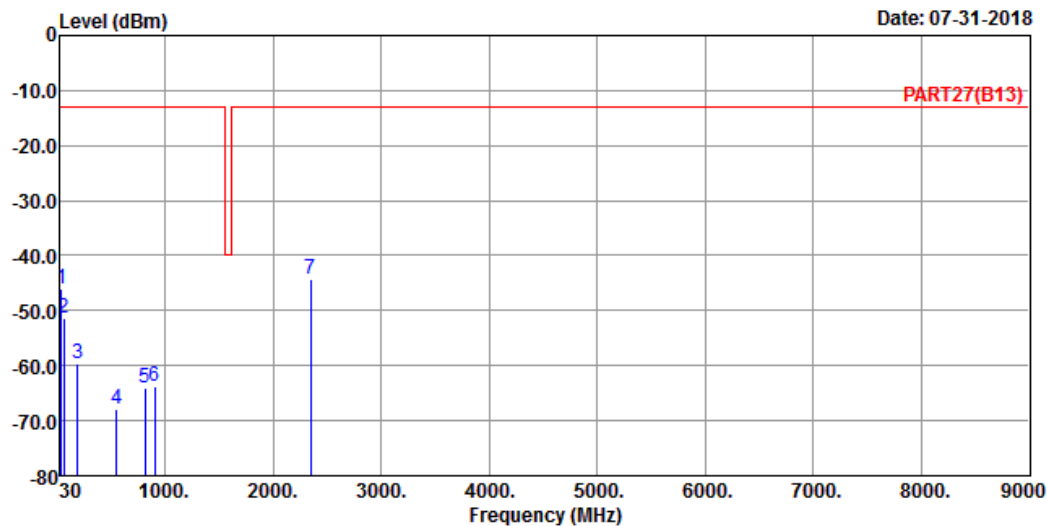
| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 44.55 | -46.27 | -44.28 | -13.00 | -33.27 | -1.99 | Peak |
| 2 | 127.97 | -54.65 | -45.73 | -13.00 | -41.65 | -8.92 | Peak |
| 3 | 187.14 | -52.76 | -45.58 | -13.00 | -39.76 | -7.18 | Peak |
| 4 | 303.54 | -58.91 | -51.96 | -13.00 | -45.91 | -6.95 | Peak |
| 5 | 645.95 | -65.58 | -64.71 | -13.00 | -52.58 | -0.87 | Peak |
| 6 | 833.16 | -64.42 | -64.86 | -13.00 | -51.42 | 0.44 | Peak |
| 7 pp | 2346.00 | -40.91 | -31.47 | -13.00 | -27.91 | -9.44 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
Condition: PART27(B13) VERTICAL
Remak : CAT M1 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 | 42.61 | -46.20 | -45.26 | -13.00 | -33.20 | -0.94 | Peak |
| 2 | 61.04 | -51.38 | -43.64 | -13.00 | -38.38 | -7.74 | Peak |
| 3 | 188.11 | -59.78 | -52.63 | -13.00 | -46.78 | -7.15 | Peak |
| 4 | 547.98 | -67.87 | -64.95 | -13.00 | -54.87 | -2.92 | Peak |
| 5 | 813.76 | -64.17 | -64.78 | -13.00 | -51.17 | 0.61 | Peak |
| 6 | 902.03 | -63.89 | -64.51 | -13.00 | -50.89 | 0.62 | Peak |
| 7 pp | 2346.00 | -44.40 | -34.96 | -13.00 | -31.40 | -9.44 | Peak |

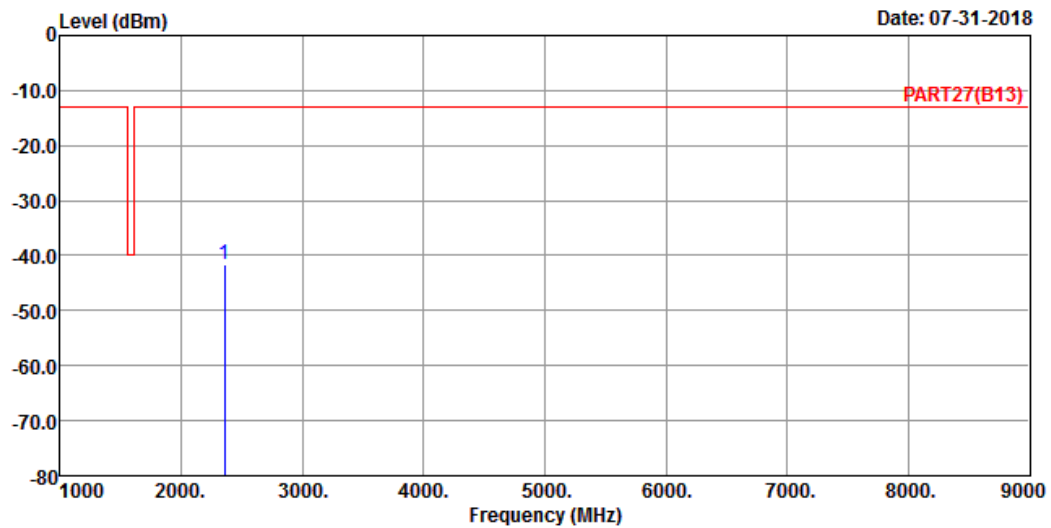
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27(B13) HORIZONTAL
 Remak : CAT M1 Band 13 QPSK_5M Link_H-CH
 Tested by: Thomas Wei

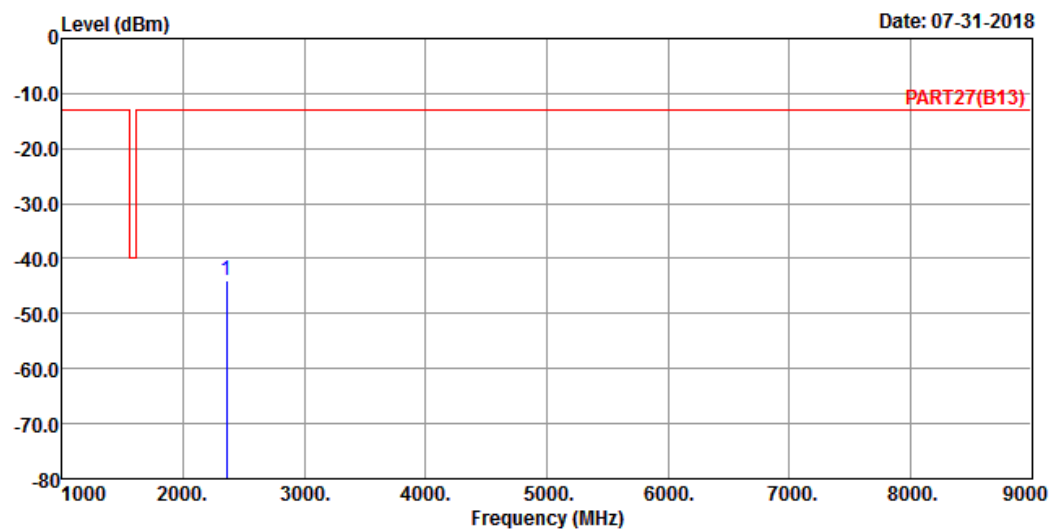
| | | Read | Limit | Over | | |
|--------------|--------|--------|--------|--------|--------|--------|
| Freq | Level | Level | Line | Limit | Factor | Remark |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 2353.50 | -41.48 | -31.97 | -13.00 | -28.48 | -9.51 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5

Condition: PART27(B13) VERTICAL

Remak : CAT M1 Band 13 QPSK_5M Link_H-CH

Tested by: Thomas Wei

| Freq | Level | Read | Limit | Over | | Factor | Remark |
|--------------|--------|--------|--------|--------|-------|--------|--------|
| | | Level | Line | Limit | Limit | | |
| MHz | dBm | dBm | dBm | dB | dB | dB | |
| 1 pp 2353.50 | -43.86 | -34.35 | -13.00 | -30.86 | -9.51 | Peak | |

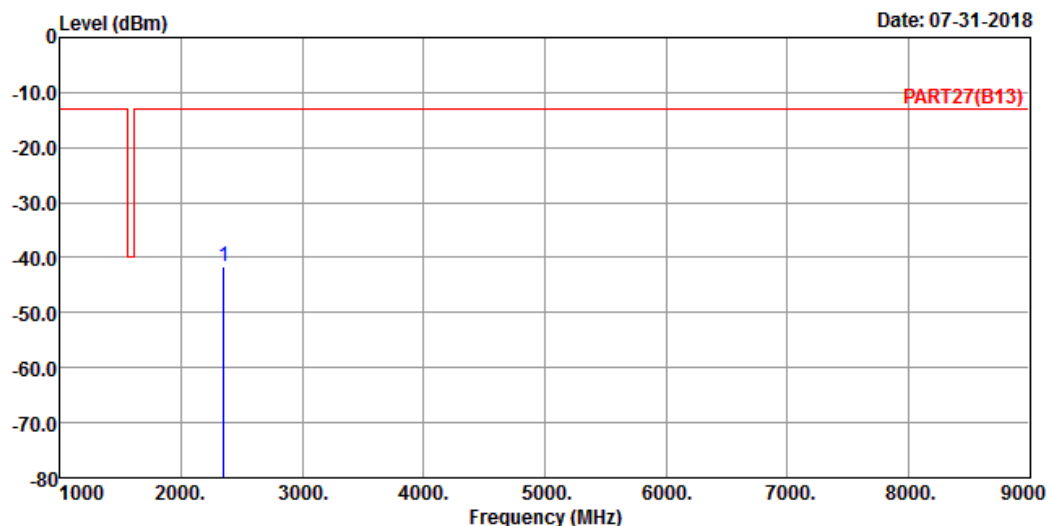
Channel Bandwidth: 10 MHz / QPSK
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : Cat-M1 Band 13 QPSK_10M Link_M-CH
Tested by: Thomas Wei

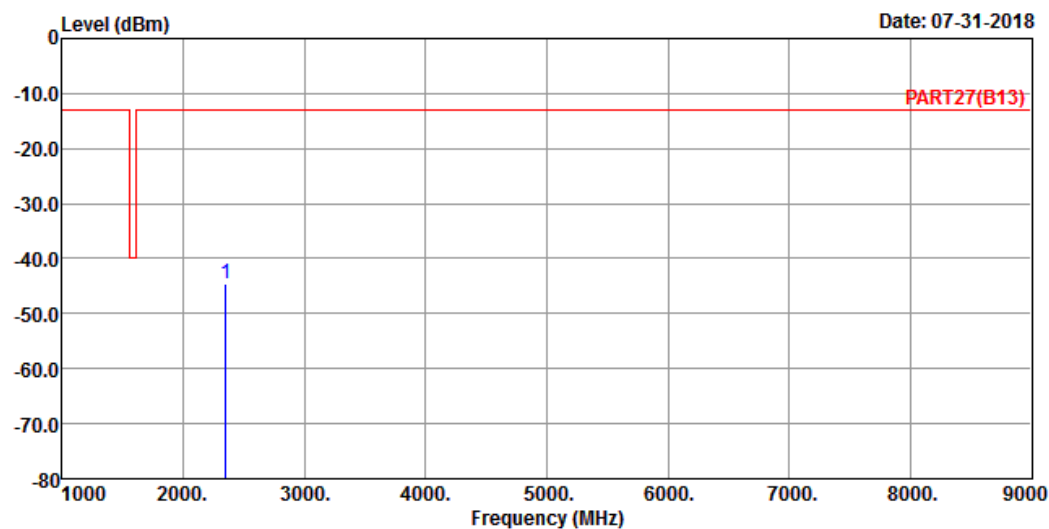
| Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|--------------|--------|------------|------------|------------|--------|--------|
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 2346.00 | -41.59 | -32.15 | -13.00 | -28.59 | -9.44 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5

Condition: PART27(B13) VERTICAL

Remak : Cat-M1 Band 13 QPSK_10M Link_M-CH

Tested by: Thomas Wei

| Freq | Level | Read | Limit | Over | | Remark |
|--------------|--------|--------|--------|--------|--------|--------|
| | | Level | Line | Limit | Factor | |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 2346.00 | -44.72 | -35.28 | -13.00 | -31.72 | -9.44 | Peak |

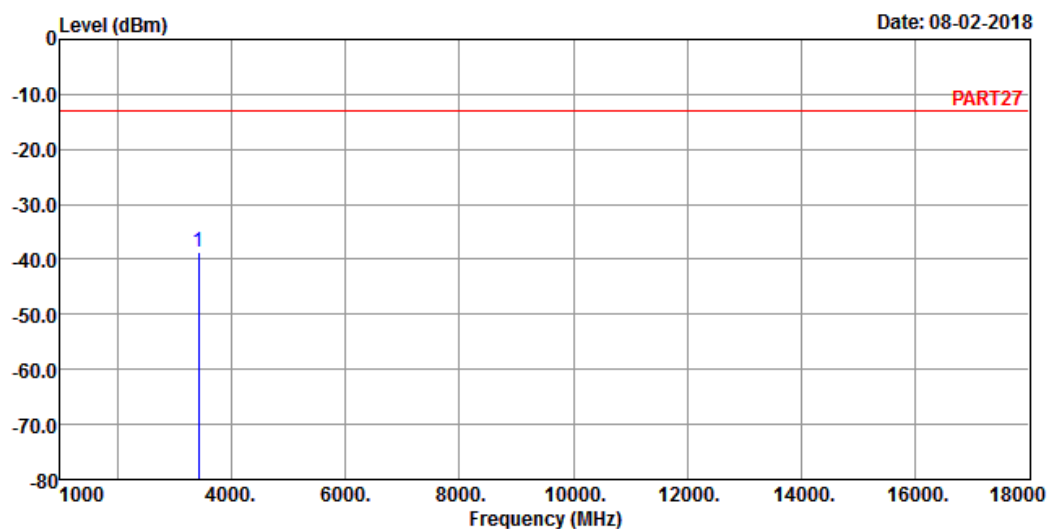
NB-IOT
LTE Band 4
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : NB-IOT Band 4 Stand-alone_Link_L-Ch
Tested by: Jisyong Wang

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

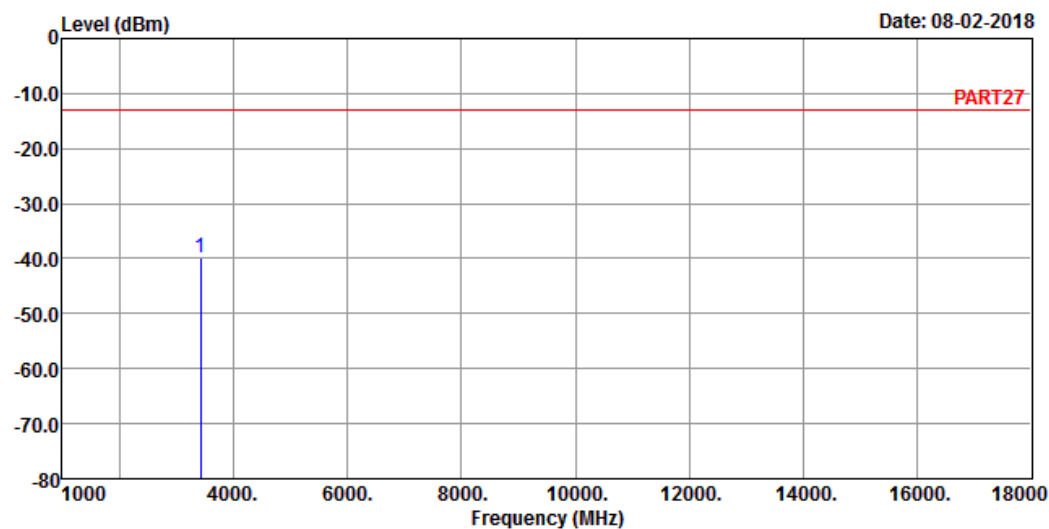
1 pp 3420.20 -38.65 -30.20 -13.00 -25.65 -8.45 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : NB-IOT Band 4 Stand-alone_Link_L-Ch

Tested by: Jisyong Wang

| | | Read | Limit | Over | | |
|--------------|--------|--------|--------|--------|--------|--------|
| Freq | Level | Level | Line | Limit | Factor | Remark |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3420.20 | -39.85 | -31.40 | -13.00 | -26.85 | -8.45 | Peak |

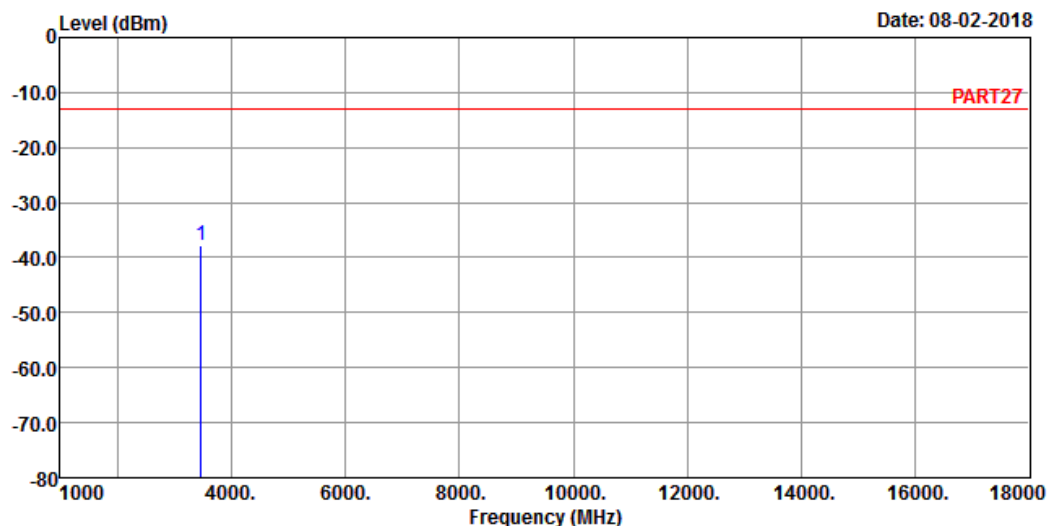
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : NB-IOT Band 4 Stand-alone_Link_M-Ch
Tested by: Jisyong Wang

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

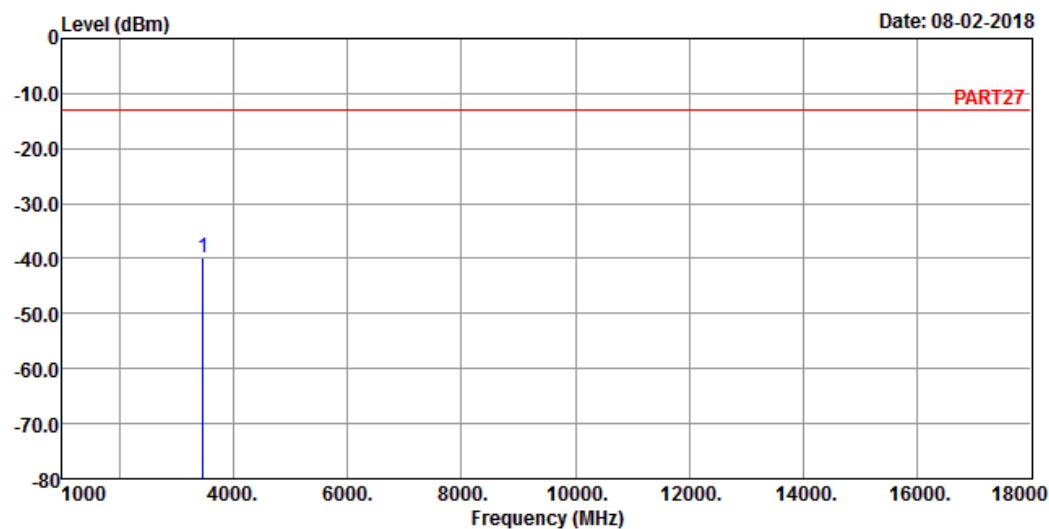
1 pp 3465.00 -37.65 -29.77 -13.00 -24.65 -7.88 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : NB-IOT Band 4 Stand-alone_Link_M-Ch

Tested by: Jisyong Wang

| Freq | Level | Read | Limit | Over | Factor | Remark |
|--------------|--------|--------|--------|--------|--------|--------|
| | | Level | Line | Limit | | |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 3465.00 | -39.99 | -32.11 | -13.00 | -26.99 | -7.88 | Peak |

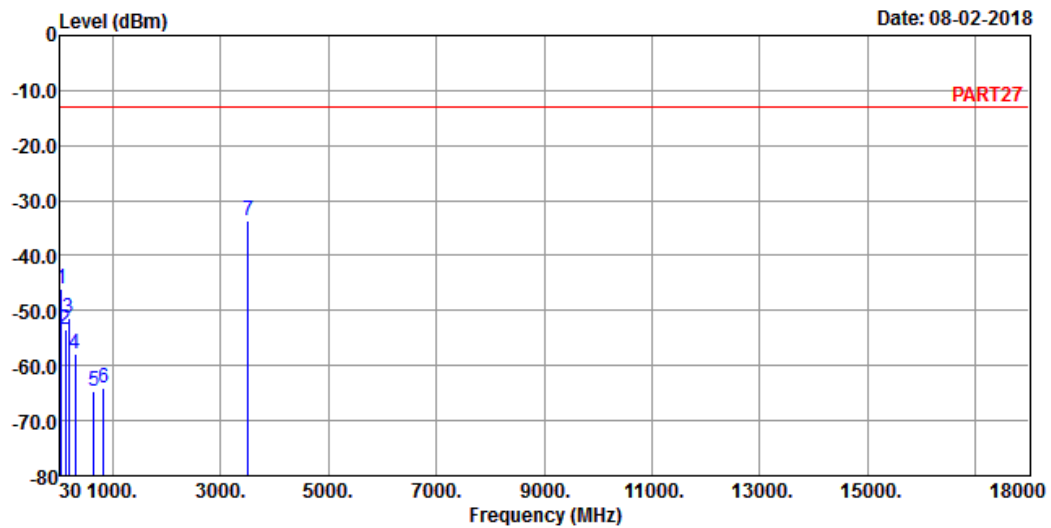
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : NB-IOT Band 4 Stand-alone_Link_H-Ch
Tested by: Jisyong Wang

| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 44.55 | -45.94 | -43.95 | -13.00 | -32.94 | -1.99 | Peak |
| 2 | 128.94 | -53.45 | -44.64 | -13.00 | -40.45 | -8.81 | Peak |
| 3 | 188.11 | -51.30 | -44.15 | -13.00 | -38.30 | -7.15 | Peak |
| 4 | 298.69 | -57.86 | -50.87 | -13.00 | -44.86 | -6.99 | Peak |
| 5 | 652.74 | -64.51 | -63.67 | -13.00 | -51.51 | -0.84 | Peak |
| 6 | 826.37 | -64.06 | -64.56 | -13.00 | -51.06 | 0.50 | Peak |
| 7 pp | 3509.80 | -33.52 | -26.07 | -13.00 | -20.52 | -7.45 | Peak |

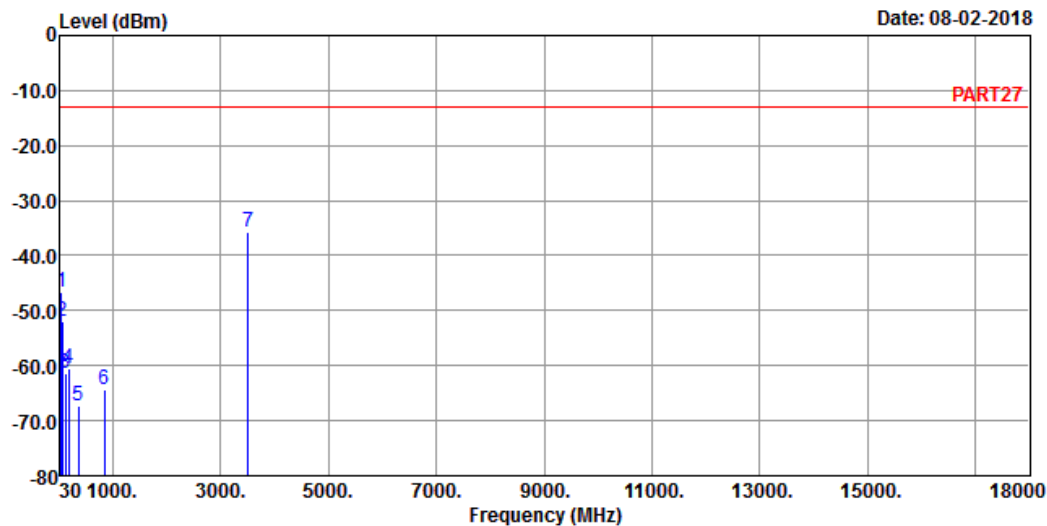


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 08-02-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : NB-IOT Band 4 Stand-alone_Link_H-Ch

Tested by: Jisyong Wang

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|---------|--------|------------|------------|------------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 43.58 | -46.51 | -45.04 | -13.00 | -33.51 | -1.47 | Peak |
| 2 | 60.07 | -52.09 | -44.43 | -13.00 | -39.09 | -7.66 | Peak |
| 3 | 122.15 | -61.42 | -51.80 | -13.00 | -48.42 | -9.62 | Peak |
| 4 | 190.05 | -60.53 | -53.44 | -13.00 | -47.53 | -7.09 | Peak |
| 5 | 362.71 | -67.39 | -61.23 | -13.00 | -54.39 | -6.16 | Peak |
| 6 | 842.86 | -64.40 | -64.75 | -13.00 | -51.40 | 0.35 | Peak |
| 7 pp | 3509.80 | -35.65 | -28.20 | -13.00 | -22.65 | -7.45 | Peak |

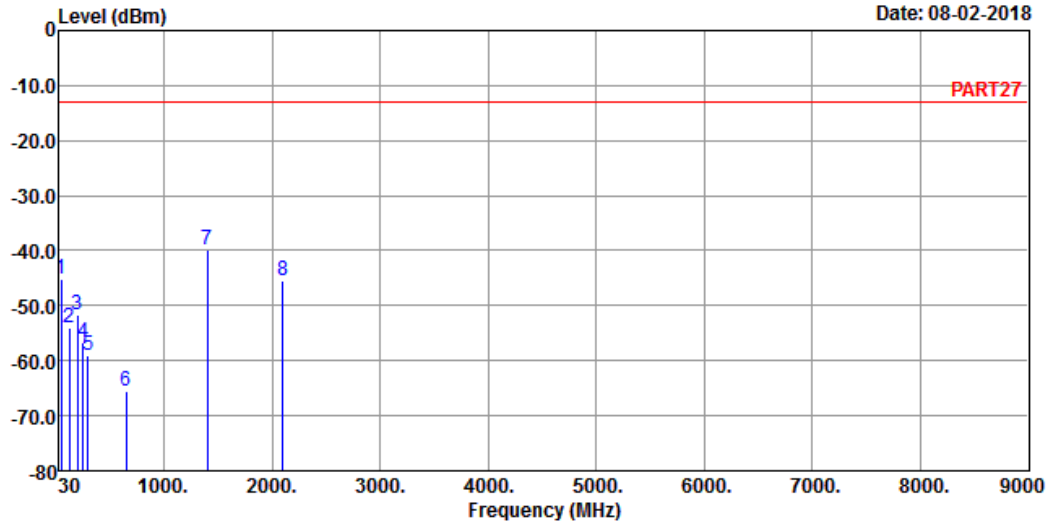
LTE Band 12
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : NB-IOT Band 12 Stand-alone_Link_L-Ch
Tested by: Jisyong Wang

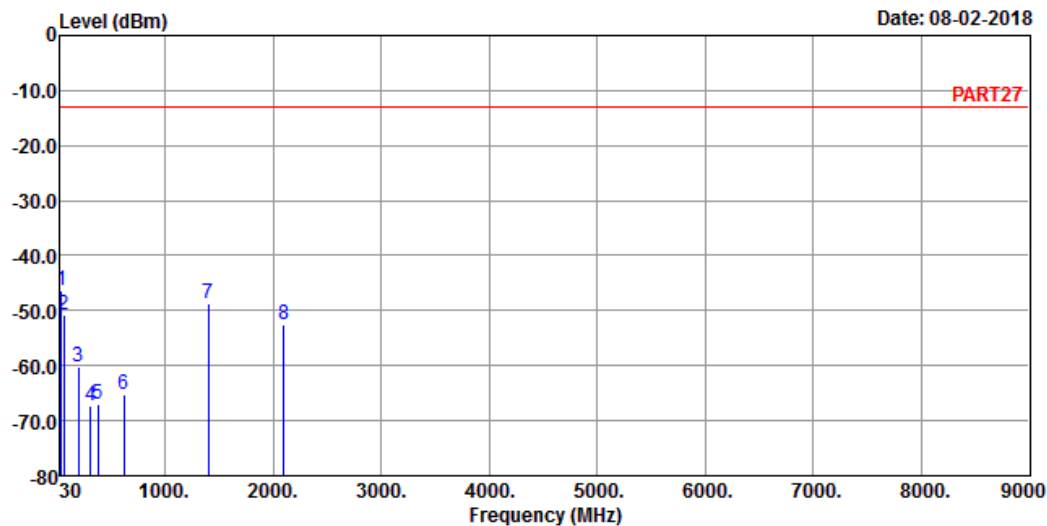
| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|---------|--------|------------|------------|------------|--------|--------|
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 44.55 | -45.07 | -43.08 | -13.00 | -32.07 | -1.99 | Peak |
| 2 | 123.12 | -53.98 | -44.48 | -13.00 | -40.98 | -9.50 | Peak |
| 3 | 193.93 | -51.78 | -44.32 | -13.00 | -38.78 | -7.46 | Peak |
| 4 | 253.10 | -56.59 | -50.54 | -13.00 | -43.59 | -6.05 | Peak |
| 5 | 296.75 | -58.90 | -51.95 | -13.00 | -45.90 | -6.95 | Peak |
| 6 | 646.92 | -65.39 | -64.51 | -13.00 | -52.39 | -0.88 | Peak |
| 7 pp | 1398.20 | -39.99 | -28.14 | -13.00 | -26.99 | -11.85 | Peak |
| 8 | 2097.30 | -45.52 | -35.27 | -13.00 | -32.52 | -10.25 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : NB-IOT Band 12 Stand-alone_Link_L-Ch

Tested by: Jisyong Wang

| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp | 42.61 | -46.39 | -45.45 | -13.00 | -33.39 | -0.94 | Peak |
| 2 | 59.10 | -50.85 | -43.45 | -13.00 | -37.85 | -7.40 | Peak |
| 3 | 193.93 | -60.22 | -52.76 | -13.00 | -47.22 | -7.46 | Peak |
| 4 | 307.42 | -67.18 | -60.29 | -13.00 | -54.18 | -6.89 | Peak |
| 5 | 376.29 | -67.10 | -61.02 | -13.00 | -54.10 | -6.08 | Peak |
| 6 | 618.79 | -65.34 | -64.54 | -13.00 | -52.34 | -0.80 | Peak |
| 7 | 1398.20 | -48.62 | -36.77 | -13.00 | -35.62 | -11.85 | Peak |
| 8 | 2097.30 | -52.69 | -42.44 | -13.00 | -39.69 | -10.25 | Peak |

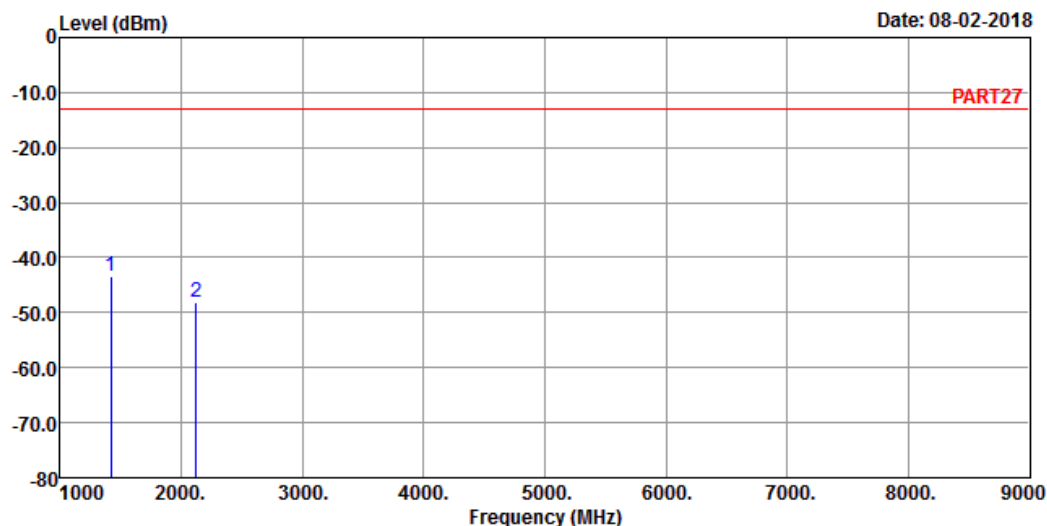
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : NB-IOT Band 12 Stand-alone_Link_M-Ch

Tested by: Jisyong Wang

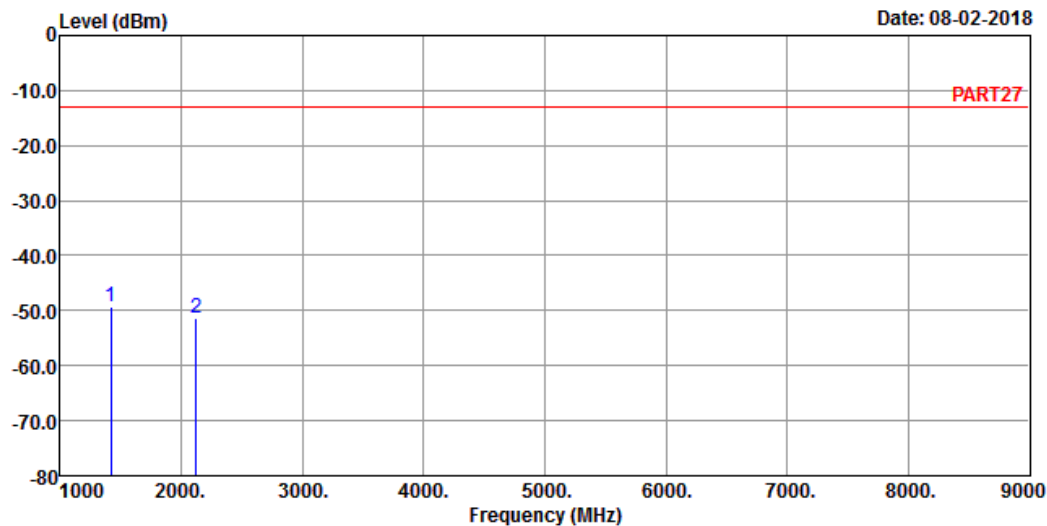
| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp | 1415.00 | -43.52 | -31.44 | -13.00 | -30.52 | -12.08 | Peak |
| 2 | 2122.50 | -47.99 | -38.12 | -13.00 | -34.99 | -9.87 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : NB-IOT Band 12 Stand-alone_Link_M-Ch

Tested by: Jisyong Wang

| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp | 1415.00 | -49.25 | -37.17 | -13.00 | -36.25 | -12.08 | Peak |
| 2 | 2122.50 | -51.26 | -41.39 | -13.00 | -38.26 | -9.87 | Peak |

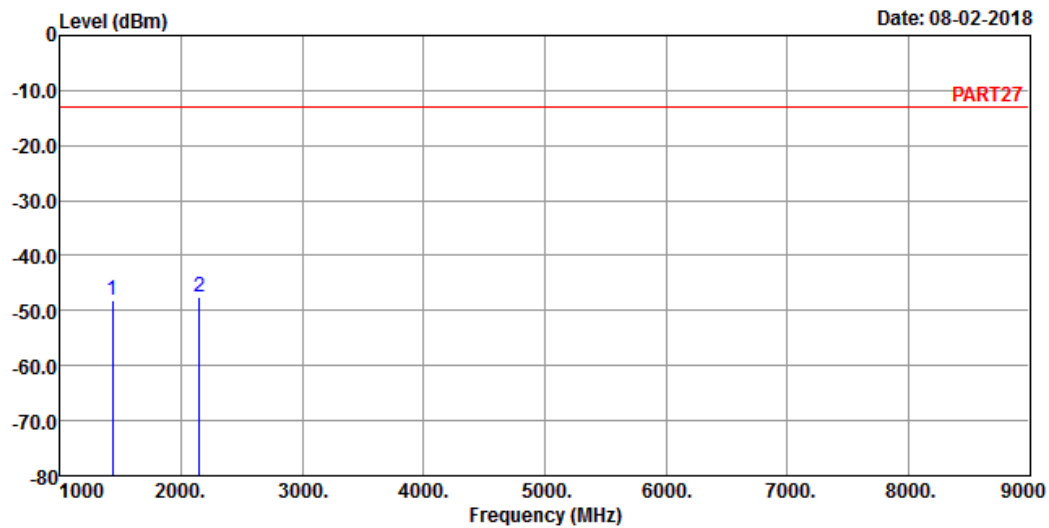
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : NB-IOT Band 12 Stand-alone_Link_H-Ch
 Tested by: Jisyong Wang

| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 1431.80 | -48.25 | -35.94 | -13.00 | -35.25 | -12.31 | Peak |
| 2 pp | 2147.70 | -47.62 | -38.15 | -13.00 | -34.62 | -9.47 | Peak |

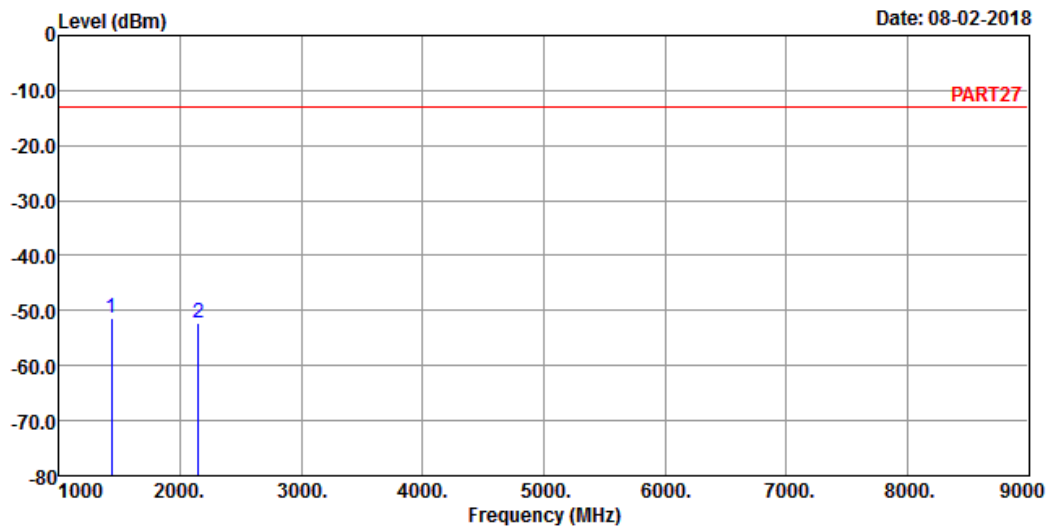


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 08-02-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : NB-IOT Band 12 Stand-alone_Link_H-Ch

Tested by: Jisyong Wang

| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp | 1431.80 | -51.25 | -38.94 | -13.00 | -38.25 | -12.31 | Peak |
| 2 | 2147.70 | -52.36 | -42.89 | -13.00 | -39.36 | -9.47 | Peak |

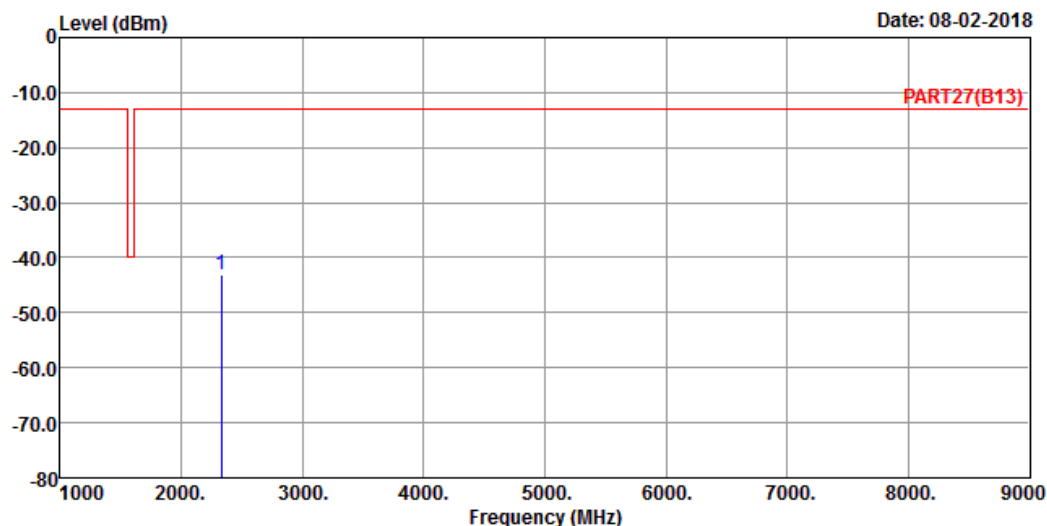
LTE Band 13
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : NB-IOT Band 13 Stand-alone_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 2331.30 | -43.02 | -33.70 | -13.00 | -30.02 | -9.32 | Peak |

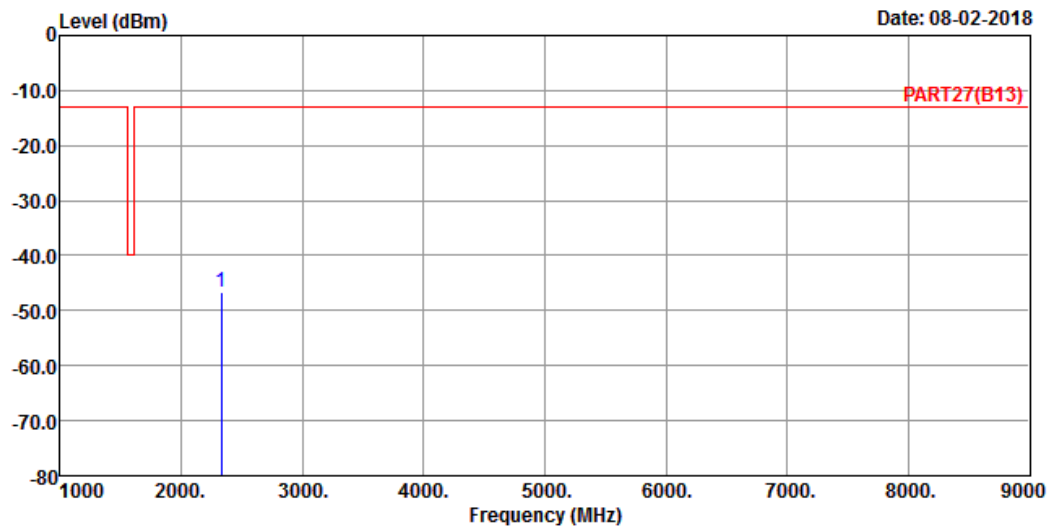


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 08-02-2018



Site : 966 Chamber 5

Condition: PART27(B13) VERTICAL

Remak : NB-IOT Band 13 Stand-alone_Link_L-Ch

Tested by: Thomas Wei

| Freq | Level | Read | Limit | Over | Factor | Remark |
|--------------|--------|--------|--------|--------|--------|--------|
| | | Level | Line | Limit | | |
| MHz | dBm | dBm | dBm | dB | dB | |
| 1 pp 2331.30 | -46.52 | -37.20 | -13.00 | -33.52 | -9.32 | Peak |

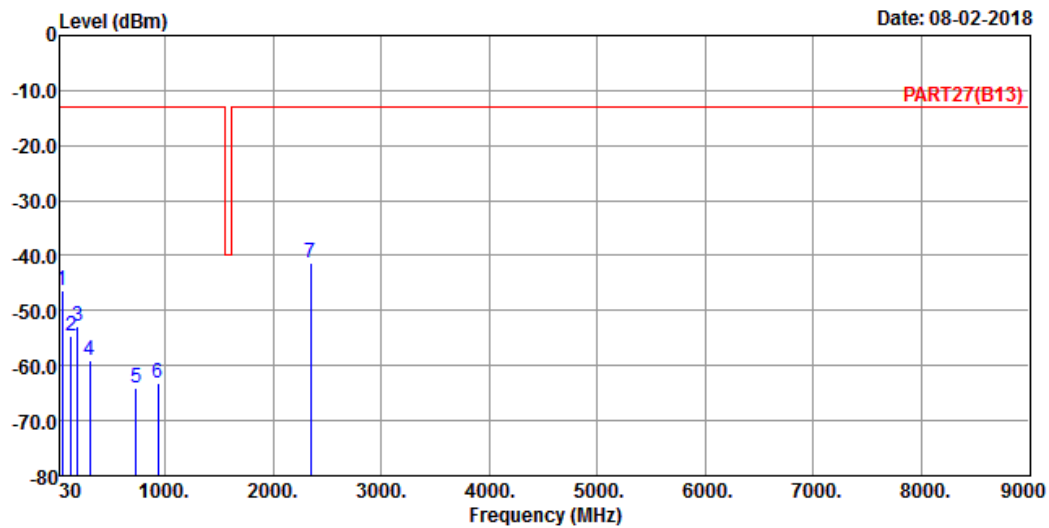
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : NB-IOT Band 13 Stand-alone_Link_M-Ch
Tested by: Jisyong Wang

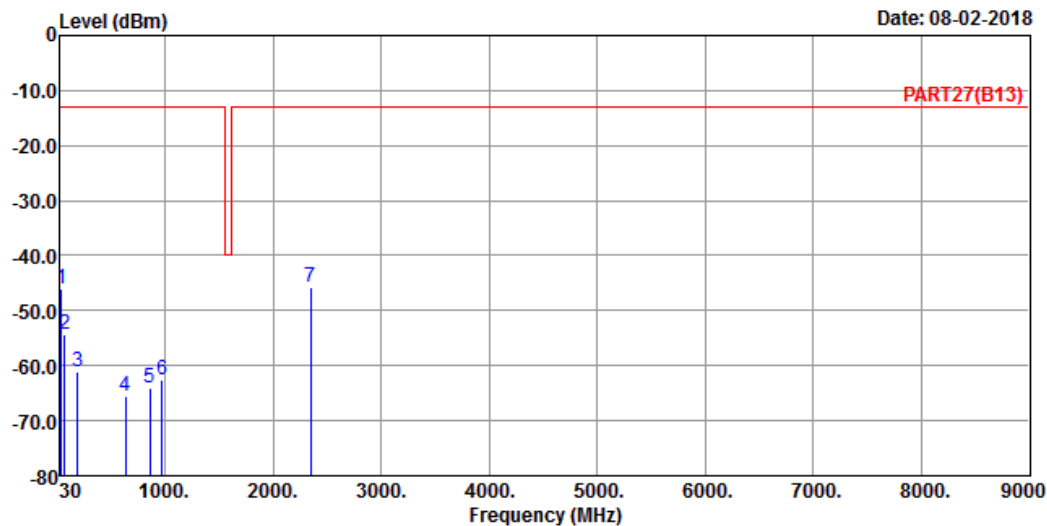
| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 44.55 | -46.27 | -44.28 | -13.00 | -33.27 | -1.99 | Peak |
| 2 | 127.97 | -54.65 | -45.73 | -13.00 | -41.65 | -8.92 | Peak |
| 3 | 187.14 | -52.76 | -45.58 | -13.00 | -39.76 | -7.18 | Peak |
| 4 | 303.54 | -58.91 | -51.96 | -13.00 | -45.91 | -6.95 | Peak |
| 5 | 731.31 | -63.98 | -64.50 | -13.00 | -50.98 | 0.52 | Peak |
| 6 | 933.07 | -63.18 | -64.57 | -13.00 | -50.18 | 1.39 | Peak |
| 7 pp | 2346.00 | -41.25 | -31.81 | -13.00 | -28.25 | -9.44 | Peak |



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5

Condition: PART27(B13) VERTICAL

Remak : NB-IOT Band 13 Stand-alone_Link_M-Ch

Tested by: Jisyong Wang

| | | | Read | Limit | Over | | |
|------|---------|--------|--------|--------|--------|--------|--------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm | dBm | dBm | dB | dB | |
| 1 | 42.61 | -46.20 | -45.26 | -13.00 | -33.20 | -0.94 | Peak |
| 2 | 68.80 | -54.26 | -45.94 | -13.00 | -41.26 | -8.32 | Peak |
| 3 | 191.99 | -61.11 | -53.83 | -13.00 | -48.11 | -7.28 | Peak |
| 4 | 630.43 | -65.53 | -64.70 | -13.00 | -52.53 | -0.83 | Peak |
| 5 | 862.26 | -64.03 | -64.39 | -13.00 | -51.03 | 0.36 | Peak |
| 6 | 967.99 | -62.57 | -65.02 | -13.00 | -49.57 | 2.45 | Peak |
| 7 pp | 2346.00 | -45.65 | -36.21 | -13.00 | -32.65 | -9.44 | Peak |

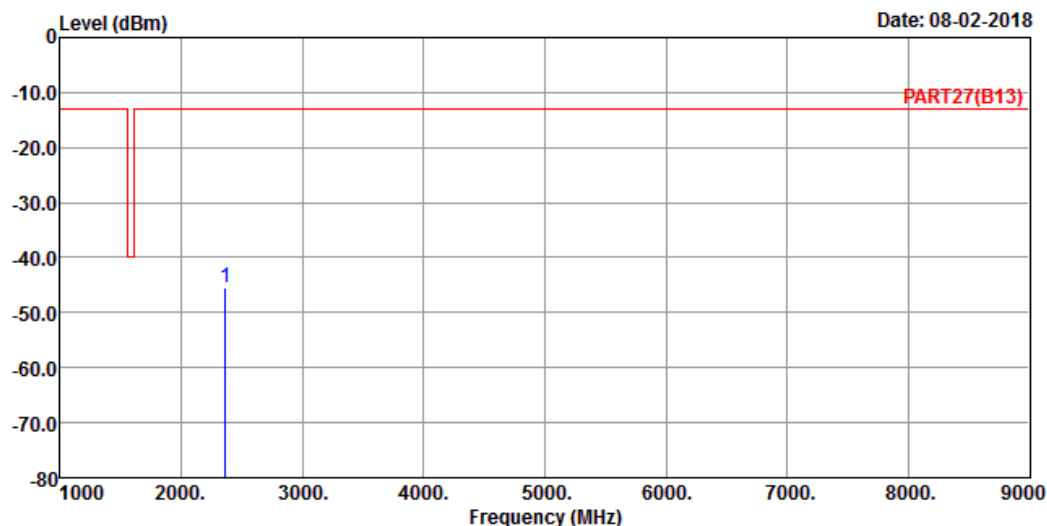
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : NB-IOT Band 13 Stand-alone_Link_H-Ch
Tested by: Jisyong Wang

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

1 pp 2360.70 -45.36 -35.79 -13.00 -32.36 -9.57 Peak

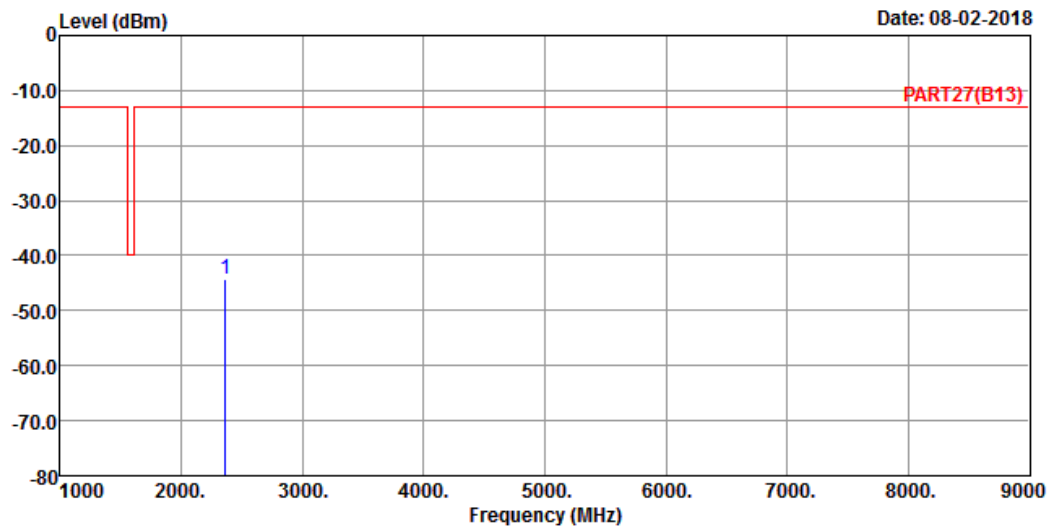


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 08-02-2018



Site : 966 Chamber 5

Condition: PART27(B13) VERTICAL

Remak : NB-IOT Band 13 Stand-alone_Link_H-Ch

Tested by: Jisyong Wang

| Freq | Level | Read | Limit | Over | | | Remark |
|--------------|--------|--------|--------|--------|--------|------|--------|
| | | Level | Line | Limit | Factor | | |
| MHz | dBm | dBm | dBm | dB | dB | | |
| 1 pp 2360.70 | -44.26 | -34.69 | -13.00 | -31.26 | -9.57 | 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 ---