



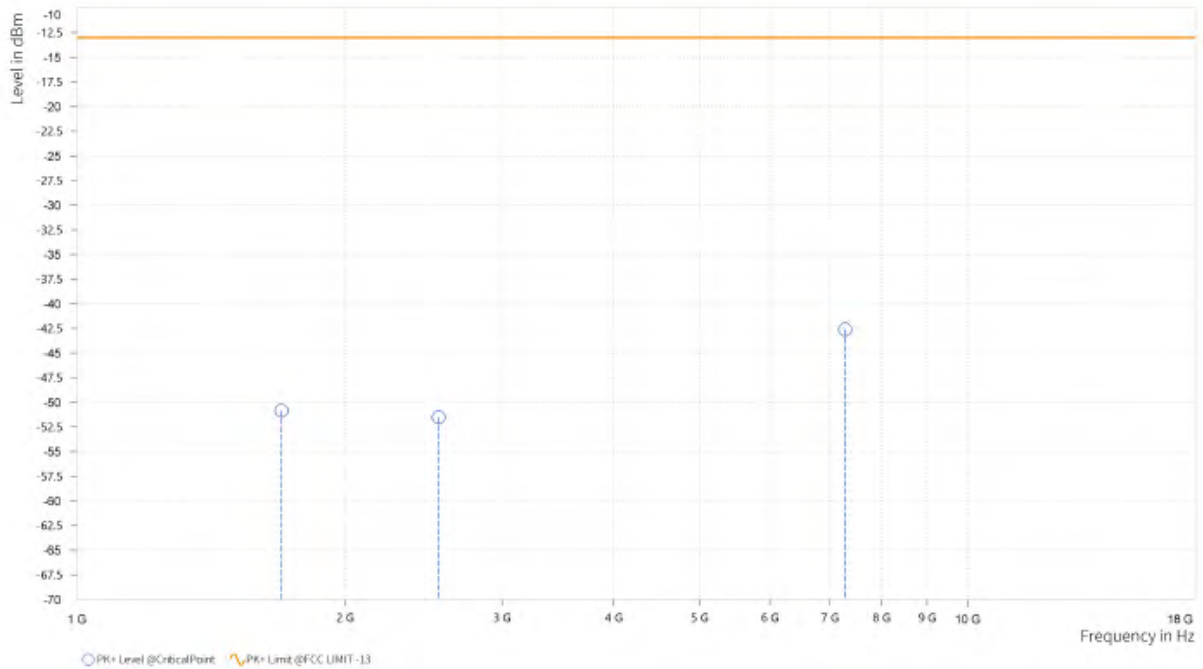
BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

CH 251:

| | | | |
|----------------------------------------------------------------|-----------------|------------------------|---------------|
| MODE | TX channel 251 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,697.000 | -50.83 | -13.00 | 37.83 | 14.68 | H | 1 | 2 |
| 3 | 2,546.500 | -51.51 | -13.00 | 38.51 | 21.05 | H | 1 | 2 |
| 5 | 7,285.500 | -42.61 | -13.00 | 29.61 | 33.87 | H | 87.8 | 2 |



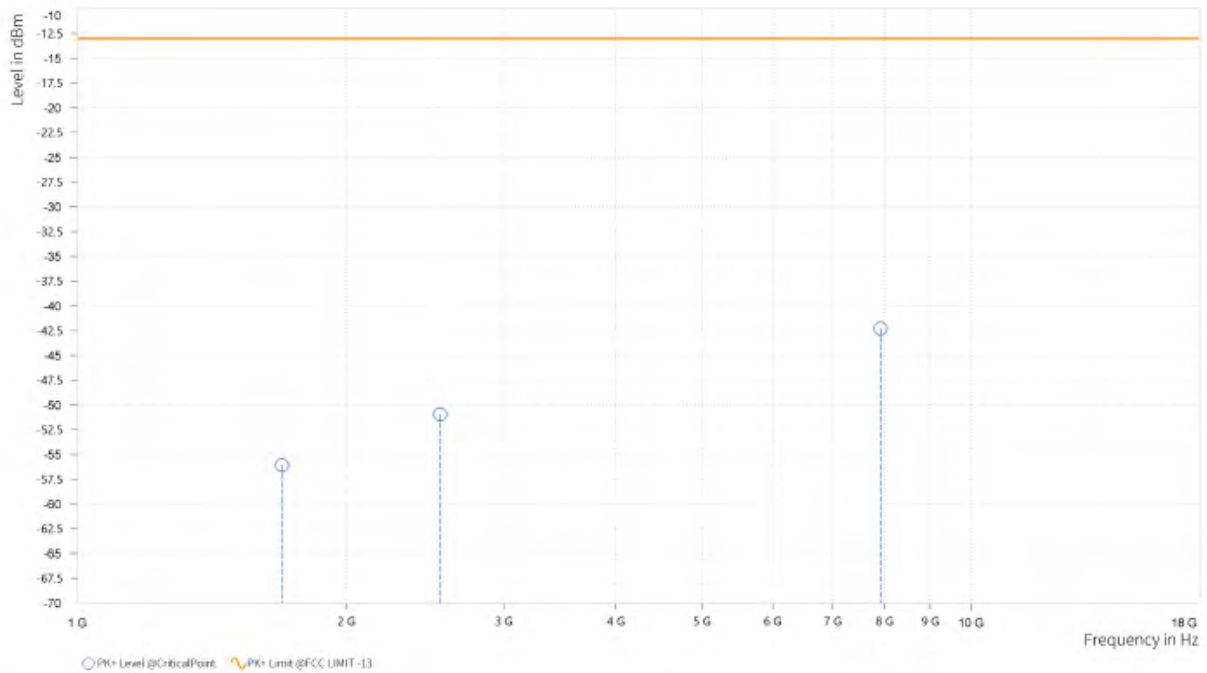


**BUREAU
VERITAS**

Test Report No.: W7L-P23030005RF04

| | | | |
|--------------------------------------------------------------|-----------------|------------------------|---------------|
| MODE | TX channel 251 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,694.500 | -56.07 | -13.00 | 43.07 | 15.08 | V | 359 | 2 |
| 3 | 2,547.000 | -50.95 | -13.00 | 37.95 | 21.06 | V | 359 | 1 |
| 5 | 7,922.500 | -42.27 | -13.00 | 29.27 | 34.29 | V | 1 | 1 |



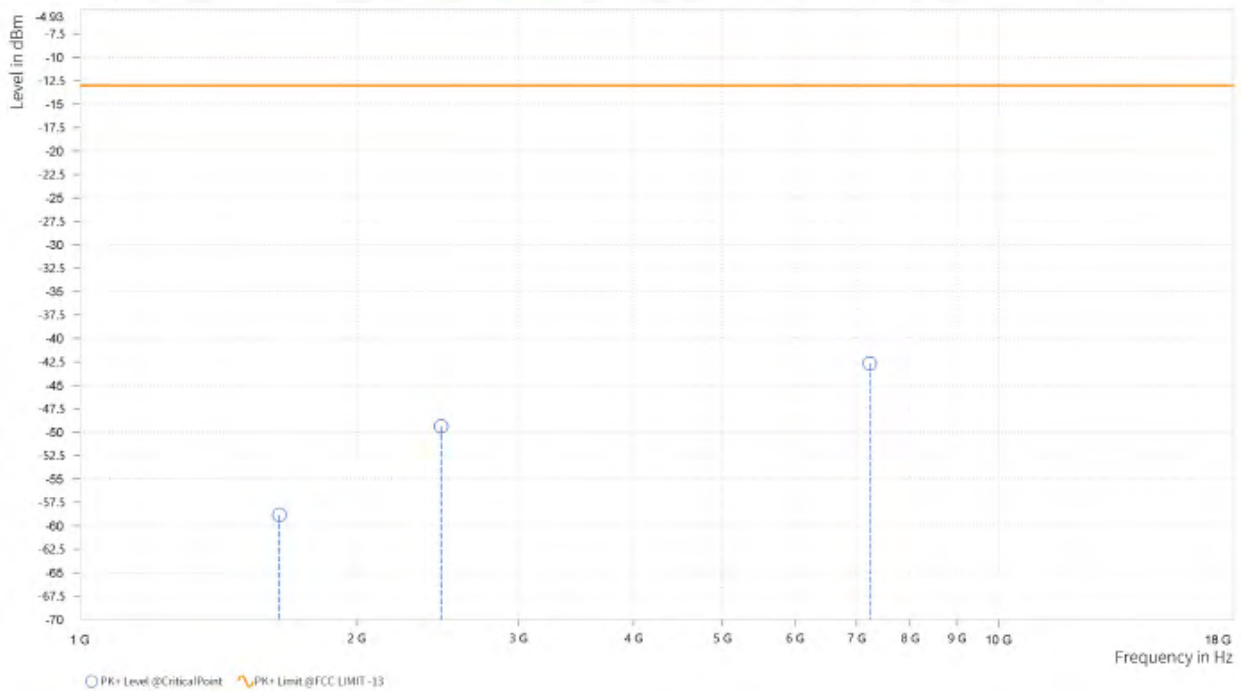


EDGE 850(Ant0):

CH 128:

| | | | |
|----------------------------------------------------------------|-----------------|------------------------|---------------|
| MODE | TX channel 128 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,648.500 | -58.84 | -13.00 | 45.84 | 13.39 | H | 0.9 | 2 |
| 3 | 2,472.000 | -49.39 | -13.00 | 36.39 | 20.77 | H | 359 | 1 |
| 5 | 7,236.500 | -42.67 | -13.00 | 29.67 | 34.18 | H | 0.9 | 2 |



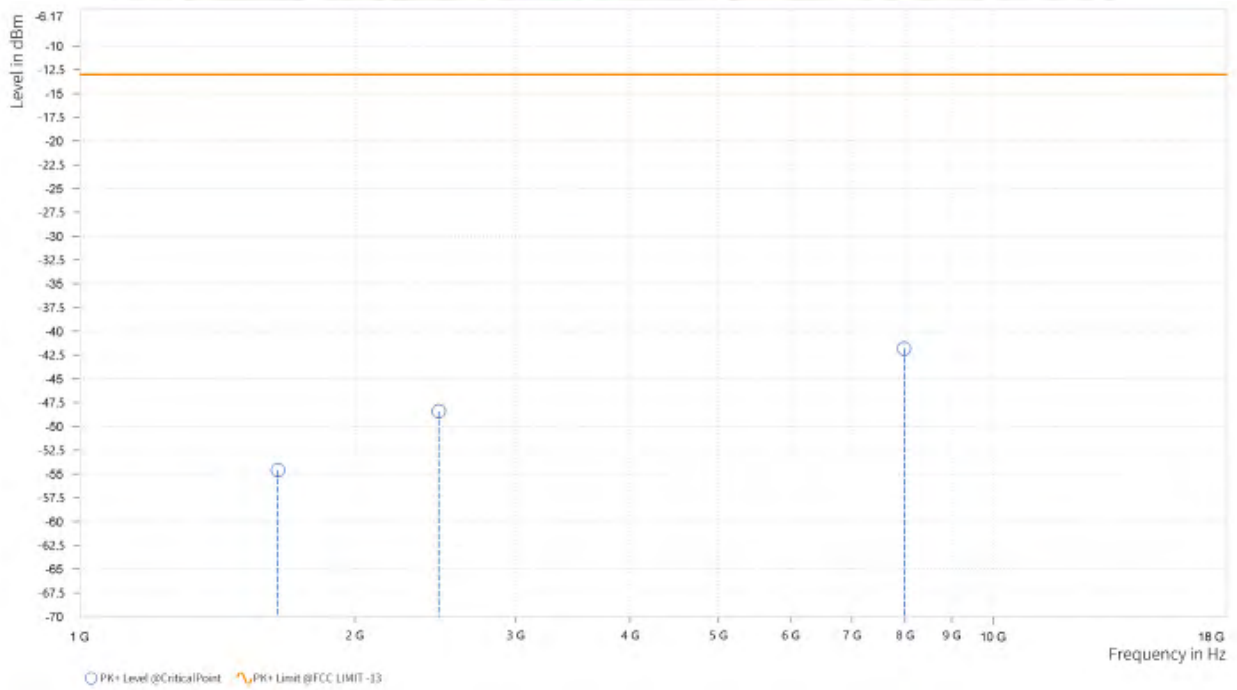


**BUREAU
VERITAS**

Test Report No.: W7L-P23030005RF04

| | | | |
|--------------------------------------------------------------|-----------------|------------------------|---------------|
| MODE | TX channel 128 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,648.000 | -54.60 | -13.00 | 41.60 | 13.32 | V | 359 | 2 |
| 3 | 2,472.000 | -48.40 | -13.00 | 35.40 | 21.36 | V | 125 | 1 |
| 5 | 7,988.500 | -41.81 | -13.00 | 28.81 | 34.63 | V | 1 | 1 |





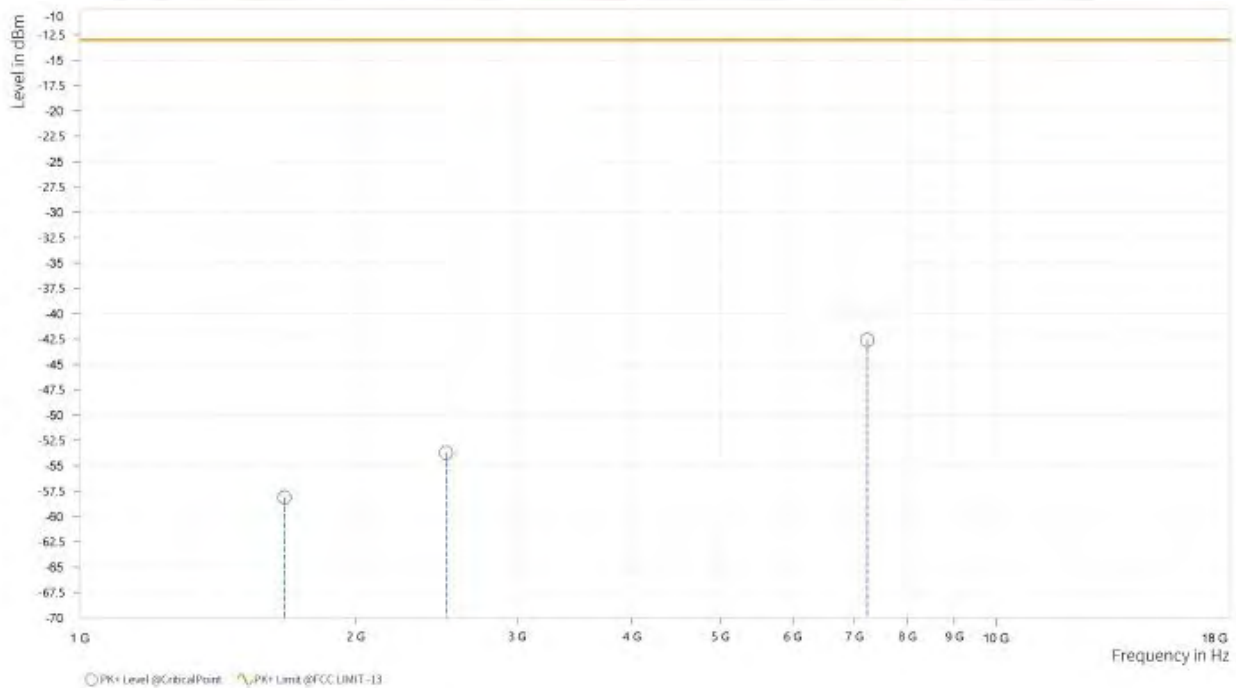
**BUREAU
VERITAS**

Test Report No.: W7L-P23030005RF04

CH 189:

| | | | |
|----------------------------------------------------------------|-----------------|------------------------|---------------|
| MODE | TX channel 189 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,672.500 | -58.11 | -13.00 | 45.11 | 13.95 | H | 0.9 | 2 |
| 3 | 2,509.000 | -53.72 | -13.00 | 40.72 | 21.08 | H | 170.5 | 1 |
| 5 | 7,233.000 | -42.60 | -13.00 | 29.60 | 34.15 | H | 359 | 2 |



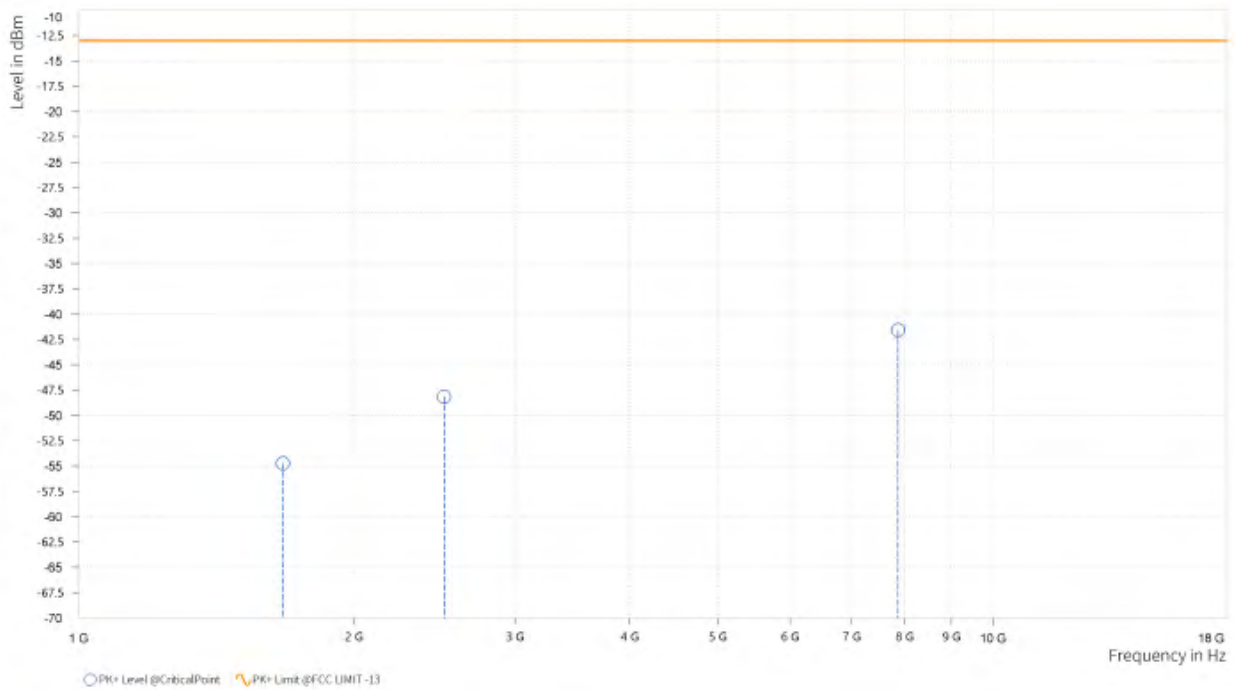


BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

| | | | |
|--------------------------------------------------------------|-----------------|------------------------|---------------|
| MODE | TX channel 189 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,672.500 | -54.75 | -13.00 | 41.75 | 13.99 | V | 1 | 1 |
| 3 | 2,509.500 | -48.15 | -13.00 | 35.15 | 20.80 | V | 359 | 1 |
| 5 | 7,870.500 | -41.56 | -13.00 | 28.56 | 34.07 | V | 359 | 1 |





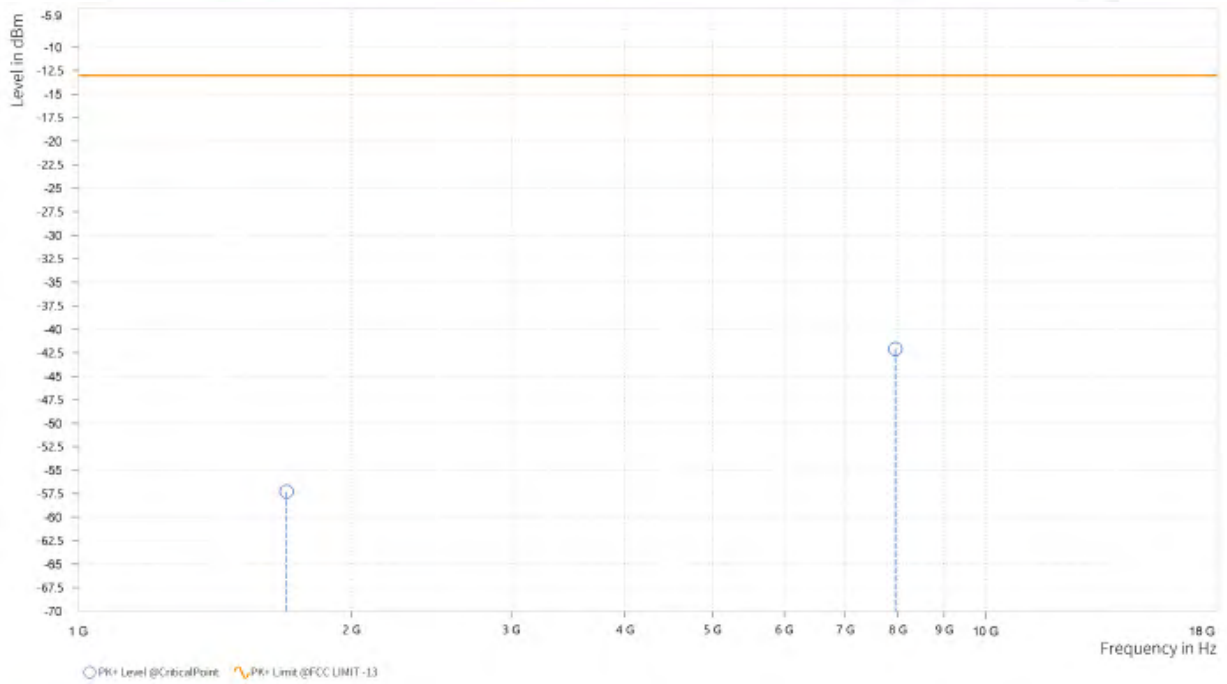
BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

CH 251:

| | | | |
|----------------------------------------------------------------|-----------------|------------------------|---------------|
| MODE | TX channel 251 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

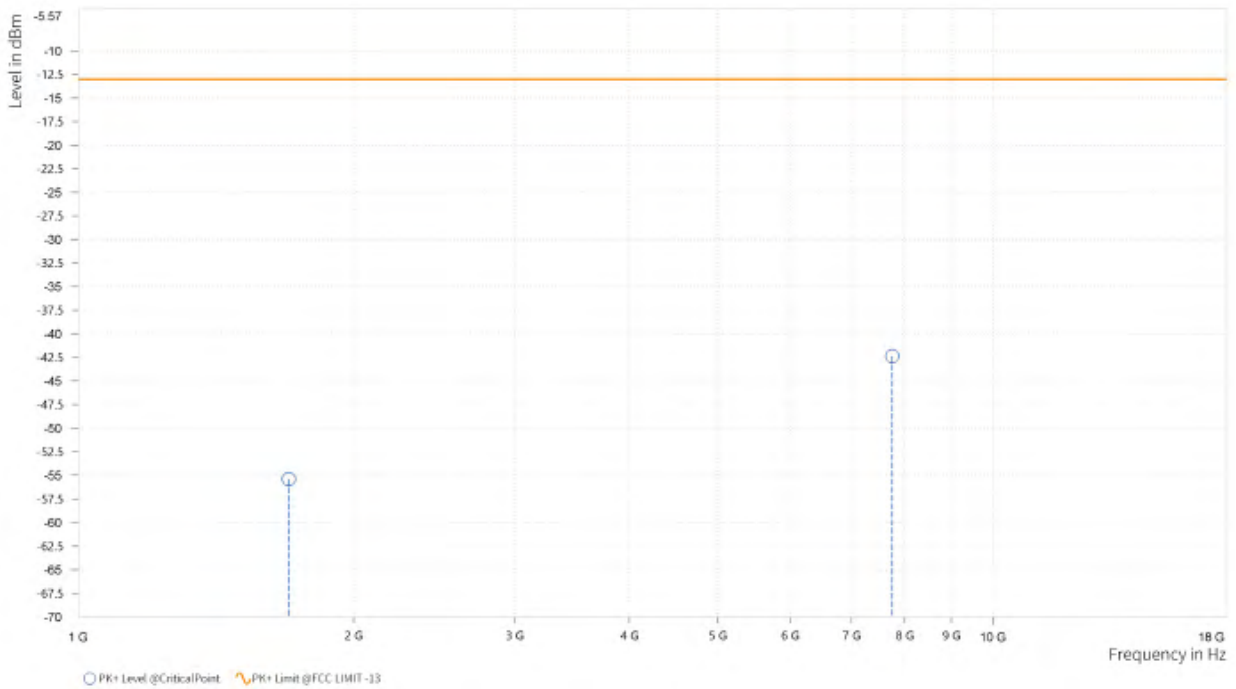
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,696.500 | -57.27 | -13.00 | 44.27 | 14.64 | H | 359.1 | 1 |
| 5 | 7,950.000 | -42.11 | -13.00 | 29.11 | 34.20 | H | 272.2 | 1 |





| | | | |
|--------------------------------------------------------------|-----------------|------------------------|---------------|
| MODE | TX channel 251 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,698.000 | -55.39 | -13.00 | 42.39 | 15.14 | V | 297 | 2 |
| 5 | 7,752.500 | -42.38 | -13.00 | 29.38 | 34.10 | V | 272.1 | 1 |





BUREAU VERITAS

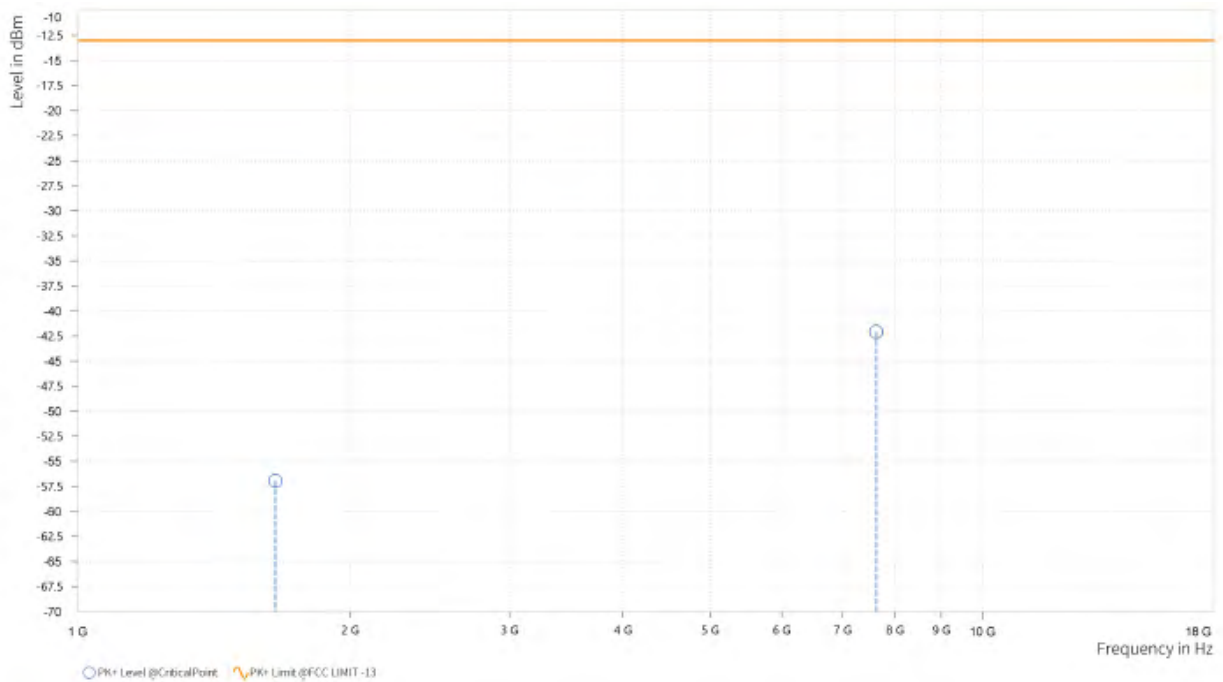
Test Report No.: W7L-P23030005RF04

WCDMA Band V(Ant4):

CH 4132:

| | | | |
|----------------------------------------------------------------|-----------------|------------------------|---------------|
| MODE | TX channel 4132 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,654.000 | -56.95 | -13.00 | 43.95 | 13.54 | H | 298.2 | 2 |
| 5 | 7,628.500 | -42.09 | -13.00 | 29.09 | 33.68 | H | 267.3 | 1 |



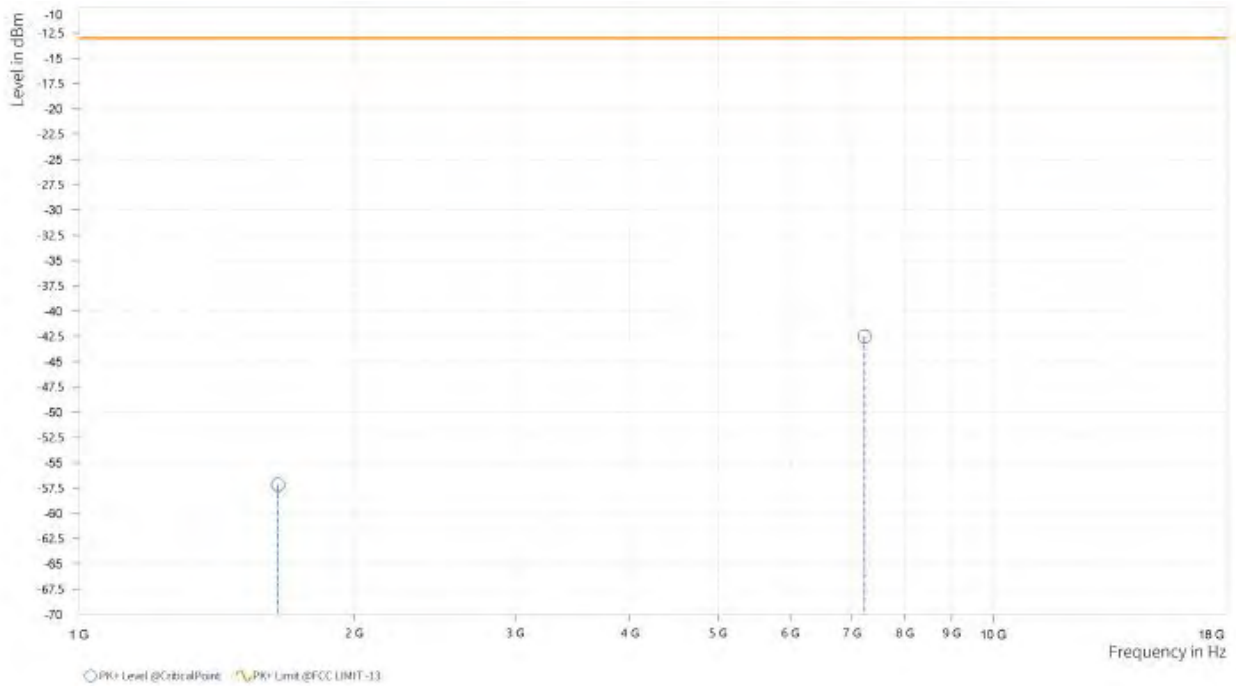


BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

| | | | |
|--------------------------------------------------------------|-----------------|------------------------|---------------|
| MODE | TX channel 4132 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,652.000 | -57.18 | -13.00 | 44.18 | 13.44 | V | 1 | 2 |
| 5 | 7,229.000 | -42.52 | -13.00 | 29.52 | 34.22 | V | 269.8 | 1 |





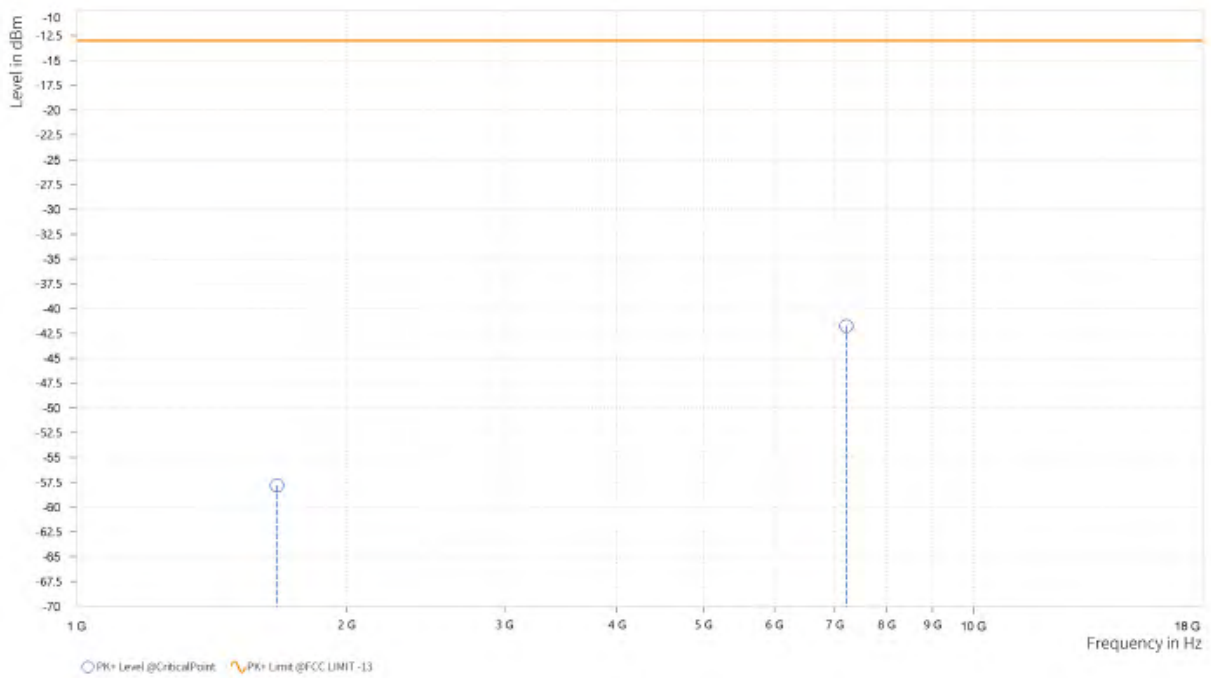
**BUREAU
VERITAS**

Test Report No.: W7L-P23030005RF04

CH 4182:

| | | | |
|----------------------------------------------------------------|-----------------|------------------------|---------------|
| MODE | TX channel 4182 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,672.500 | -57.81 | -13.00 | 44.81 | 13.95 | H | 62.9 | 1 |
| 5 | 7,214.500 | -41.75 | -13.00 | 28.75 | 33.98 | H | 0.9 | 2 |



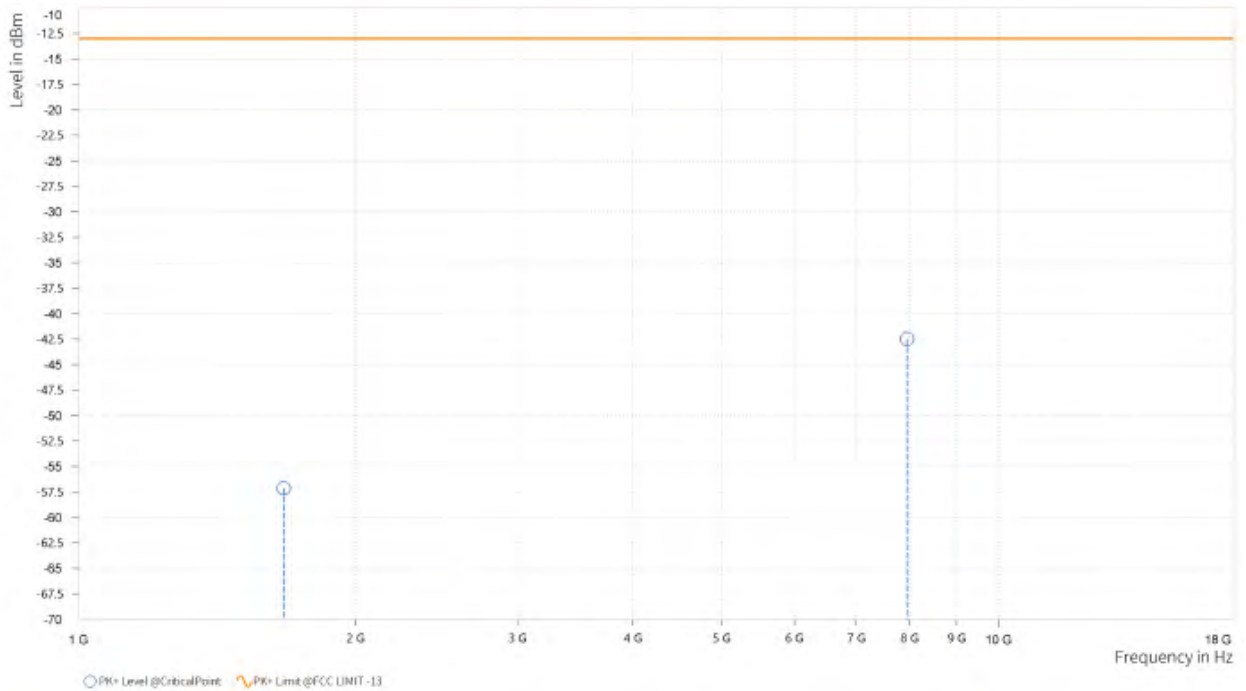


BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

| | | | |
|--------------------------------------------------------------|-----------------|------------------------|---------------|
| MODE | TX channel 4182 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,672.000 | -57.14 | -13.00 | 44.14 | 13.98 | V | 359 | 2 |
| 5 | 7,954.000 | -42.47 | -13.00 | 29.47 | 34.45 | V | 1 | 1 |





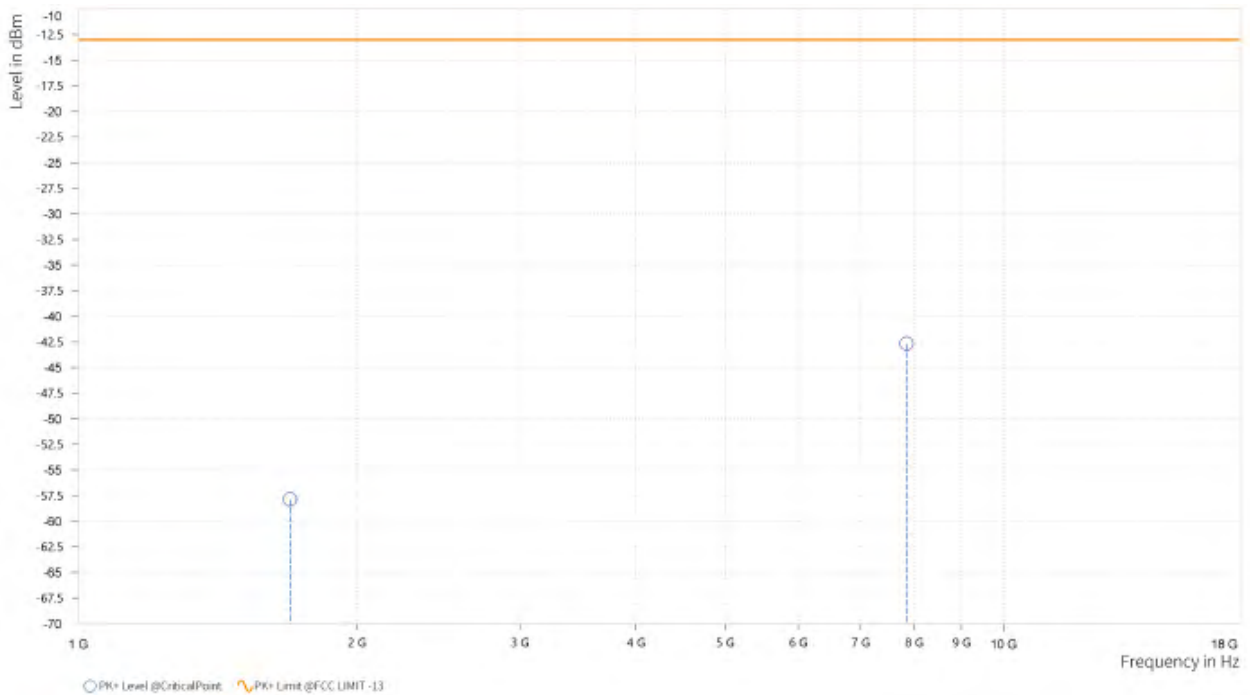
BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

CH 4233:

| | | | |
|----------------------------------------------------------------|-----------------|------------------------|---------------|
| MODE | TX channel 4233 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,693.500 | -57.87 | -13.00 | 44.87 | 14.45 | H | 359.1 | 1 |
| 5 | 7,851.000 | -42.66 | -13.00 | 29.66 | 33.95 | H | 1 | 1 |



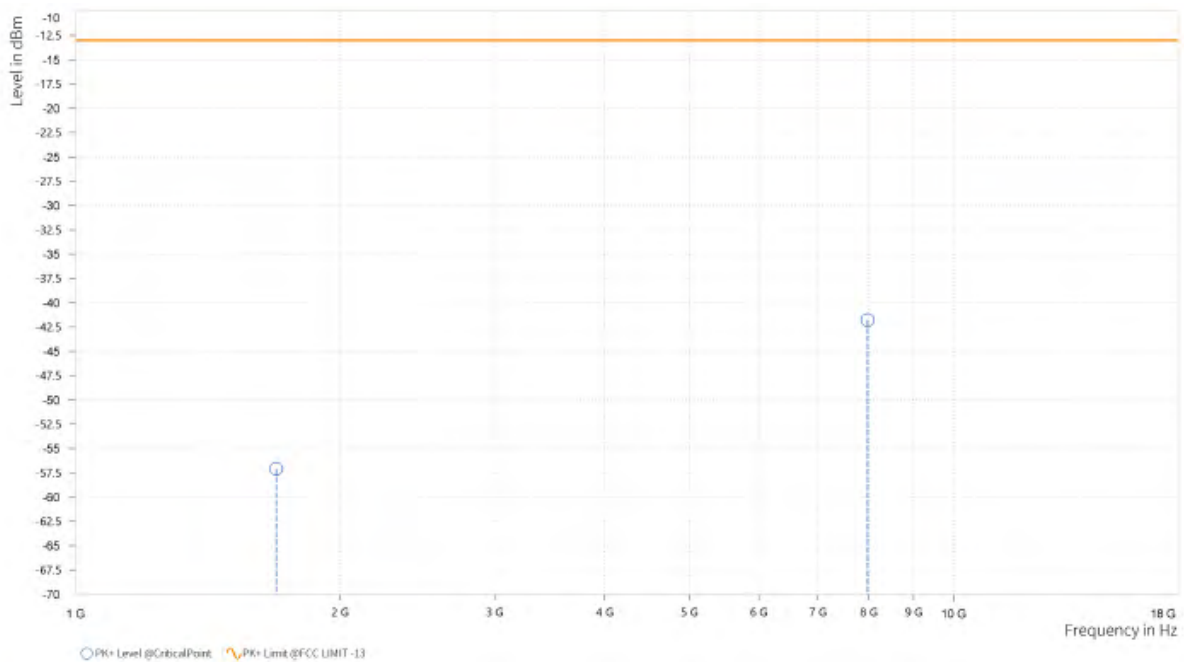


BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

| | | | |
|--------------------------------------------------------------|-----------------|------------------------|---------------|
| MODE | TX channel 4233 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,692.000 | -57.08 | -13.00 | 44.08 | 14.99 | V | 359 | 2 |
| 5 | 7,977.000 | -41.78 | -13.00 | 28.78 | 34.57 | V | 359 | 1 |



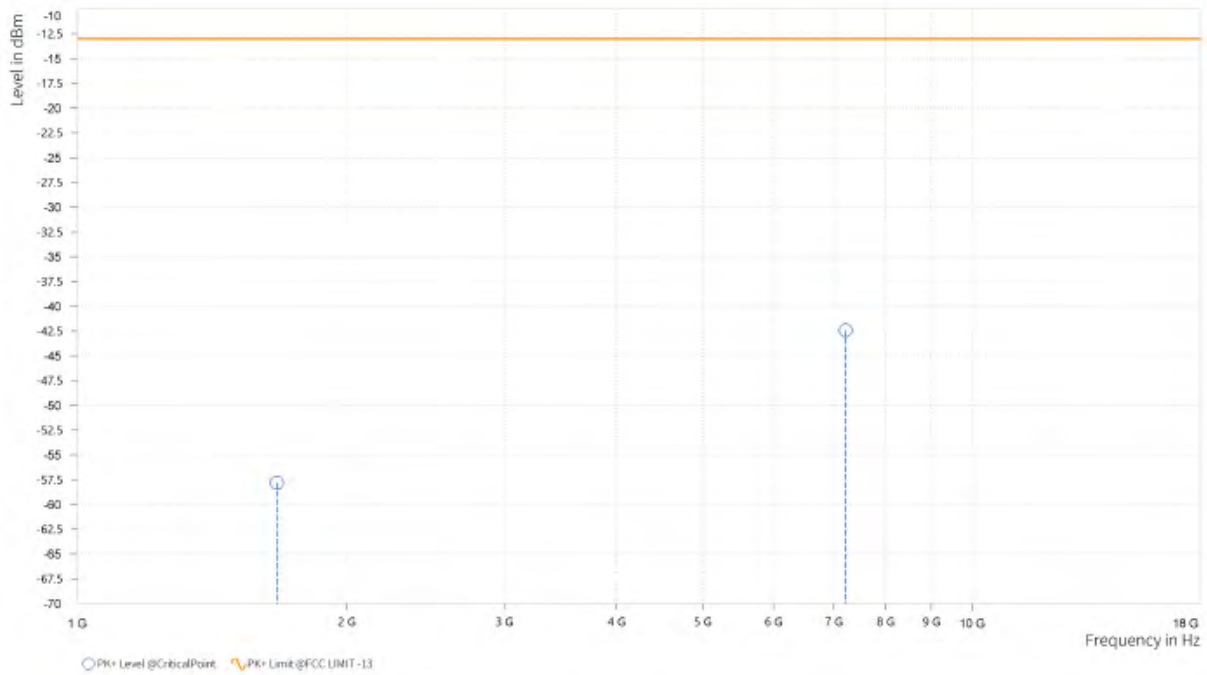


LTE Band 5(Ant4)

CHANNEL BANDWIDTH: 1.4MHz / QPSK

| | | | |
|----------------------------------------------------------------|------------------|-----------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60Hz |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,671.500 | -57.82 | -13.00 | 44.82 | 13.93 | H | 294.6 | 2 |
| 5 | 7,220.500 | -42.42 | -13.00 | 29.42 | 34.05 | H | 359 | 1 |



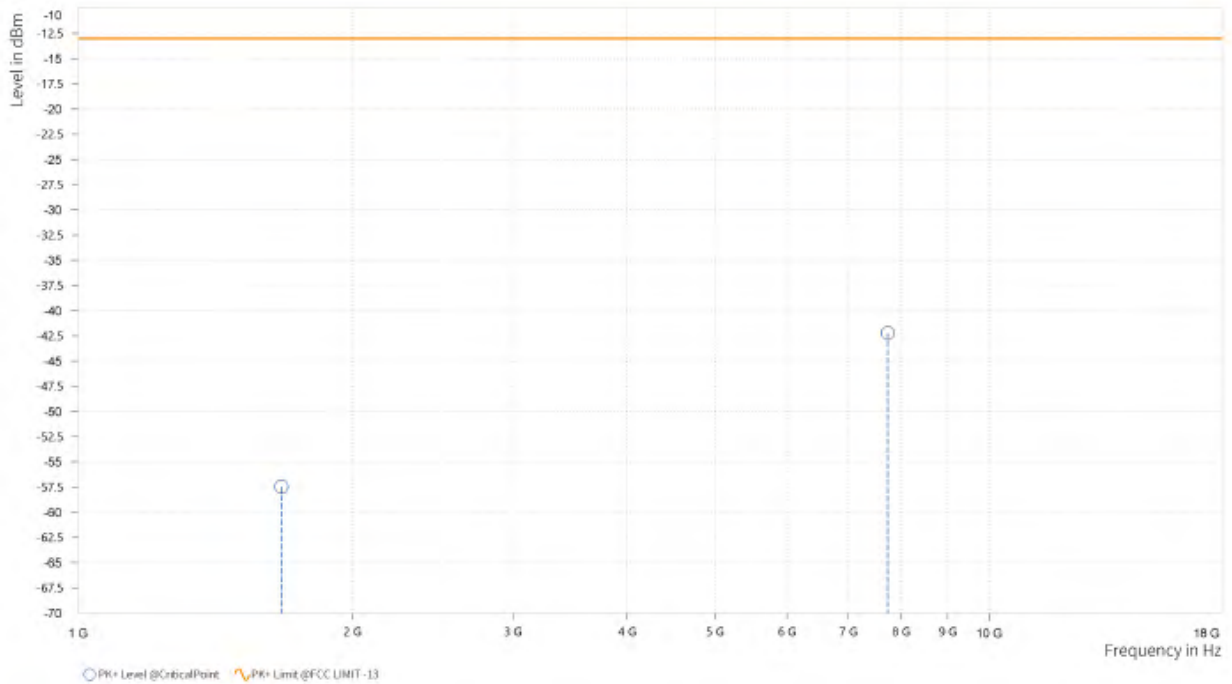


BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

| | | | |
|--------------------------------------------------------------|------------------|-----------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60Hz |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,671.500 | -57.47 | -13.00 | 44.47 | 13.96 | V | 1 | 1 |
| 5 | 7,736.500 | -42.23 | -13.00 | 29.23 | 34.16 | V | 273.3 | 1 |





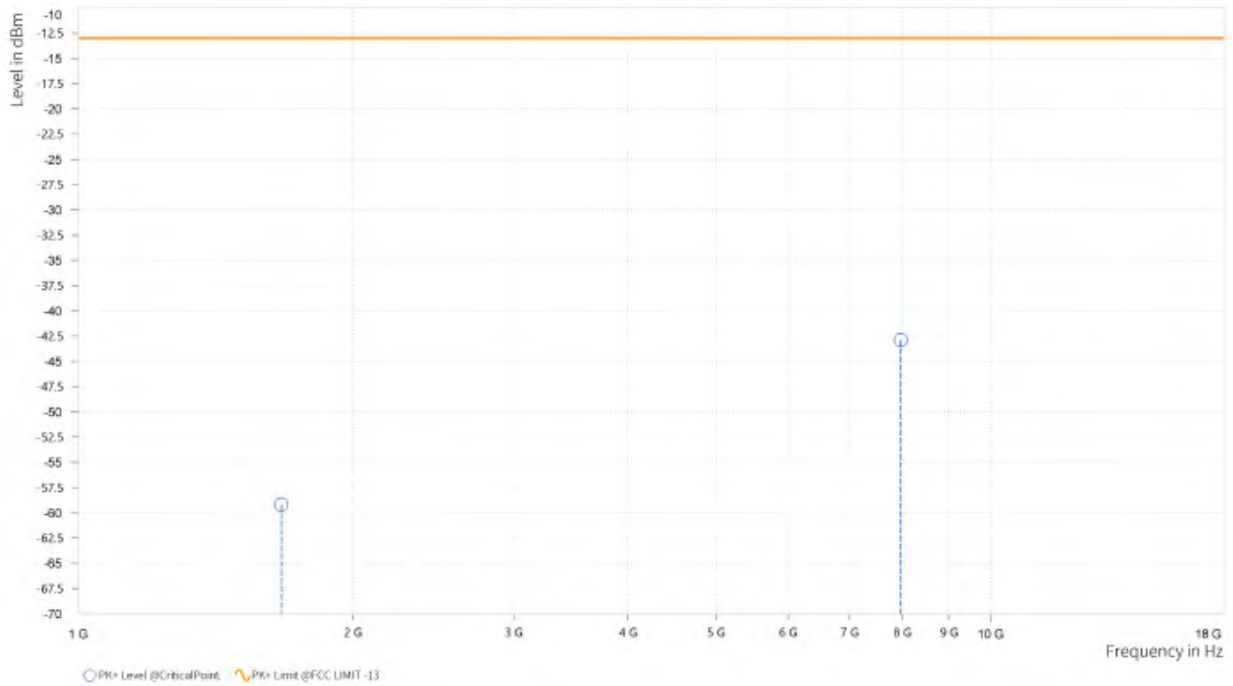
**BUREAU
VERITAS**

Test Report No.: W7L-P23030005RF04

CHANNEL BANDWIDTH: 3MHz / QPSK

| | | | |
|----------------------------------------------------------------|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60Hz |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,670.000 | -59.18 | -13.00 | 46.18 | 13.90 | H | 65.4 | 1 |
| 5 | 7,967.000 | -42.89 | -13.00 | 29.89 | 34.23 | H | 359 | 2 |



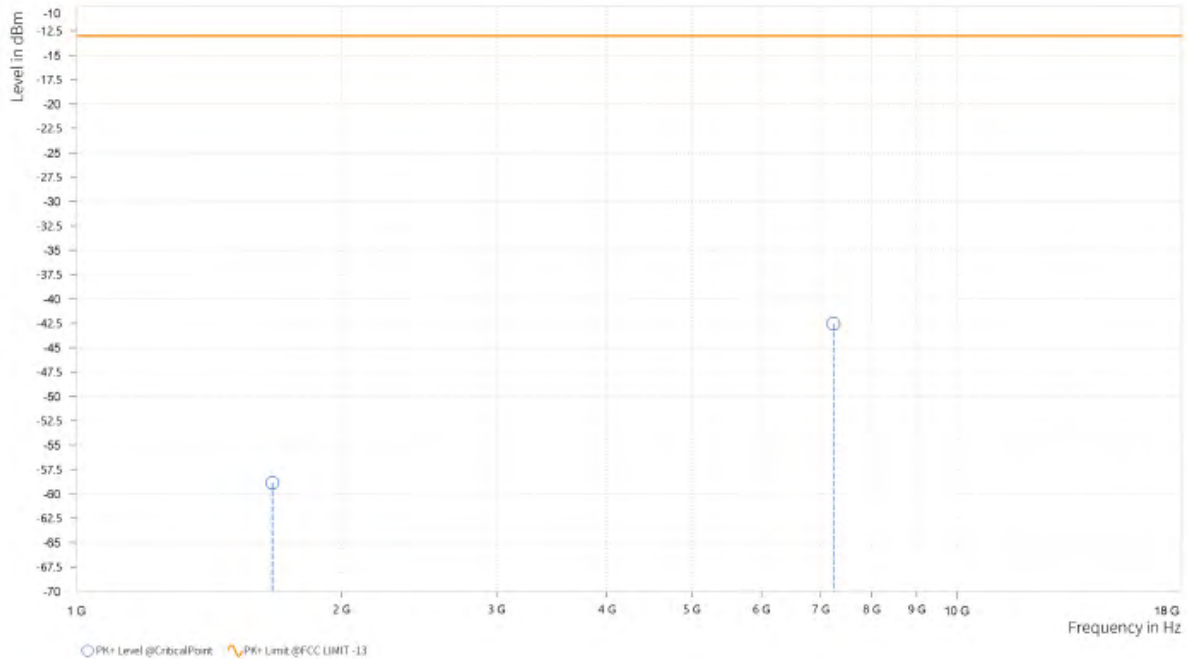


BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

| | | | |
|--------------------------------------------------------------|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60Hz |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,669.500 | -58.87 | -13.00 | 45.87 | 13.92 | V | 297 | 2 |
| 5 | 7,243.000 | -42.54 | -13.00 | 29.54 | 34.36 | V | 359 | 2 |





BUREAU VERITAS

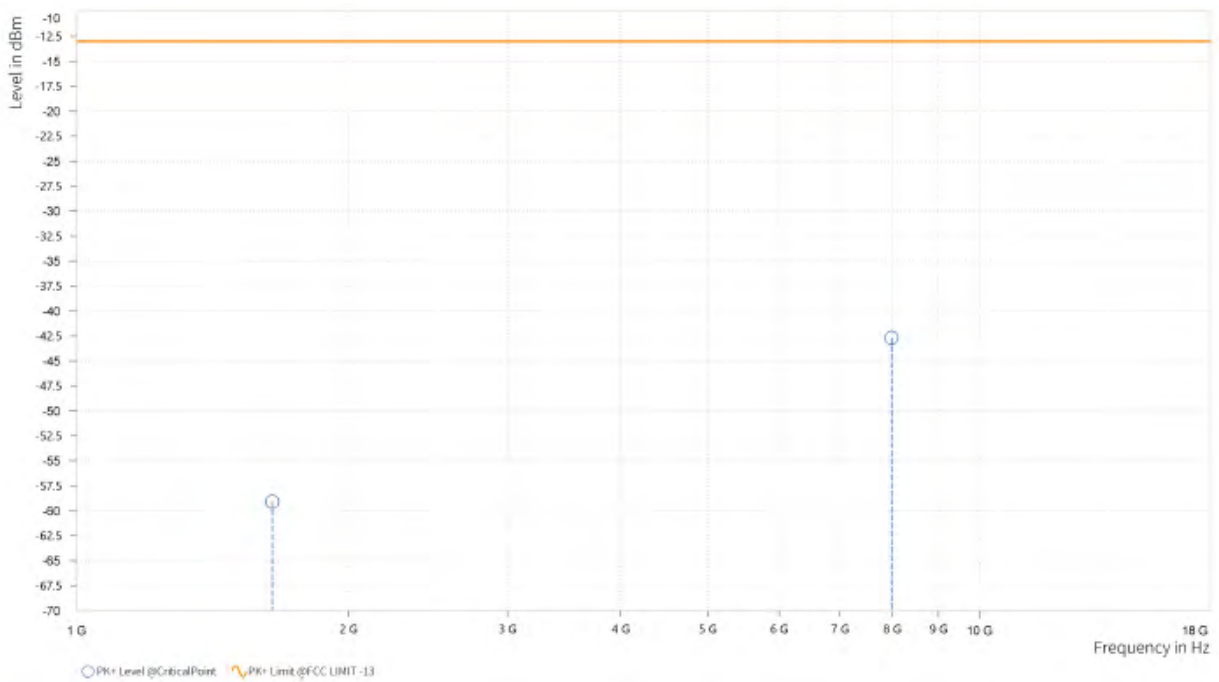
Test Report No.: W7L-P23030005RF04

CHANNEL BANDWIDTH: 5MHz / QPSK

CH20425

| | | | |
|----------------------------------------------------------------|------------------|------------------------|---------------|
| MODE | TX channel 20425 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60Hz |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,647.500 | -59.11 | -13.00 | 46.11 | 13.37 | H | 295.8 | 2 |
| 5 | 7,988.000 | -42.67 | -13.00 | 29.67 | 34.38 | H | 1 | 1 |



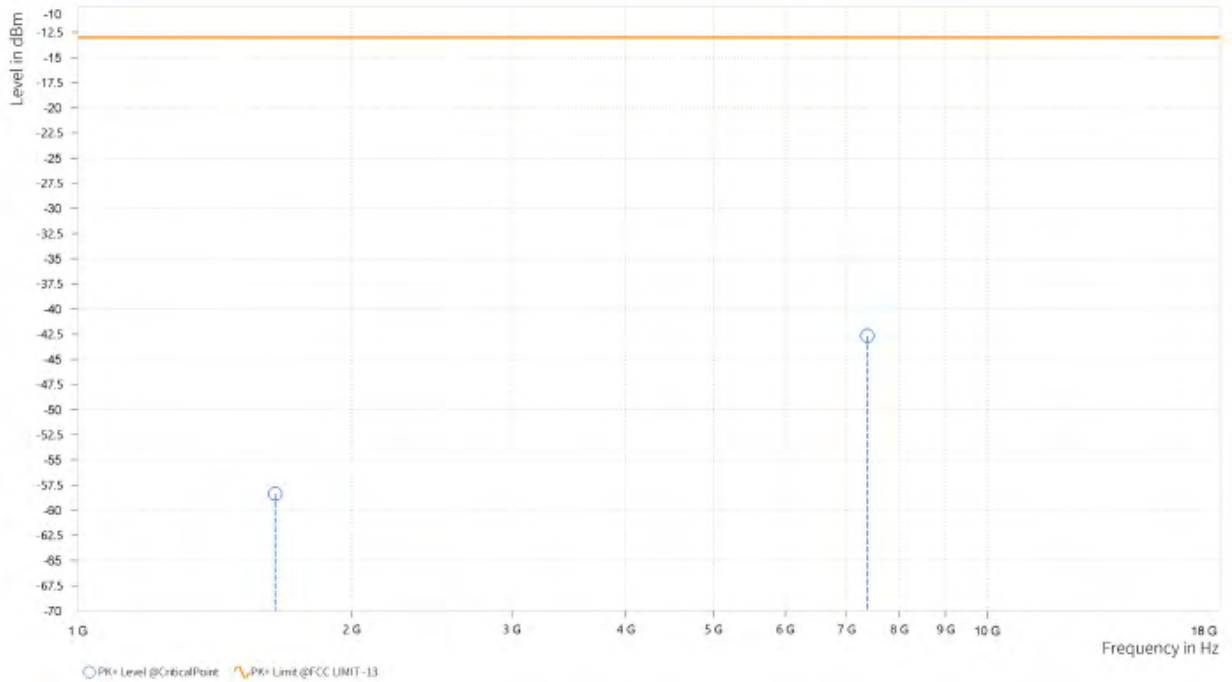


BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

| | | | |
|--------------------------------------------------------------|------------------|------------------------|---------------|
| MODE | TX channel 20425 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60Hz |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,648.500 | -58.38 | -13.00 | 45.38 | 13.33 | V | 64.1 | 1 |
| 5 | 7,382.500 | -42.65 | -13.00 | 29.65 | 33.72 | V | 83.1 | 2 |





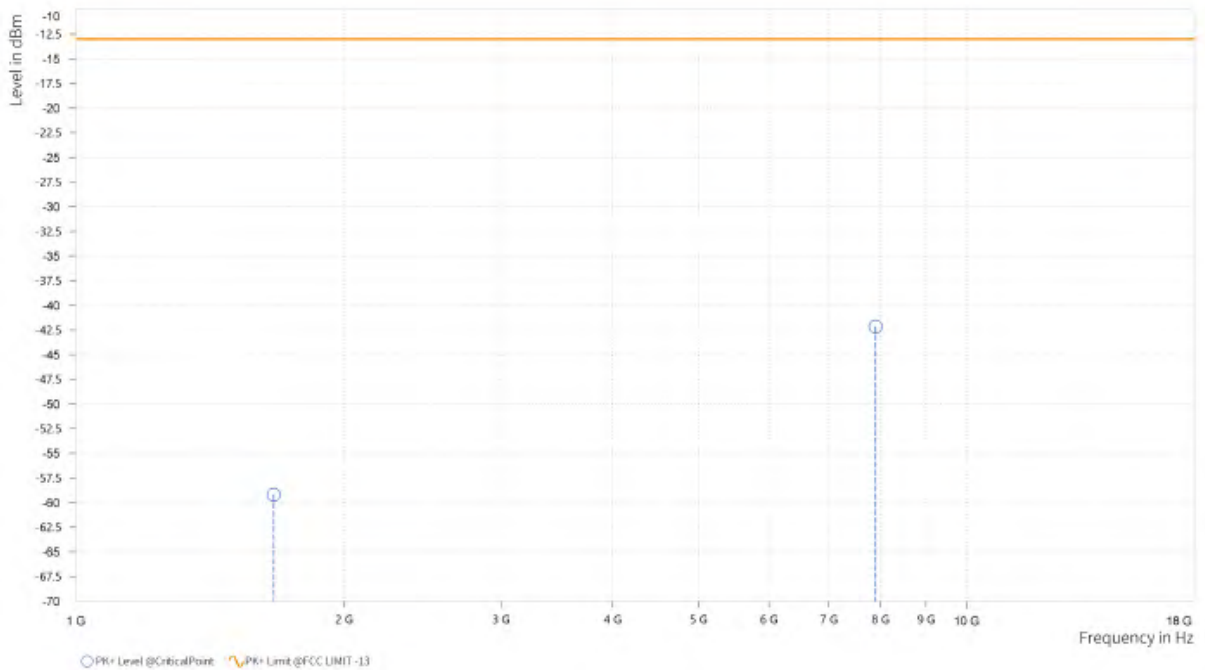
BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

CH20525

| | | | |
|----------------------------------------------------------------|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60Hz |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,667.500 | -59.21 | -13.00 | 46.21 | 13.85 | H | 359 | 2 |
| 5 | 7,902.000 | -42.16 | -13.00 | 29.16 | 34.12 | H | 359 | 1 |



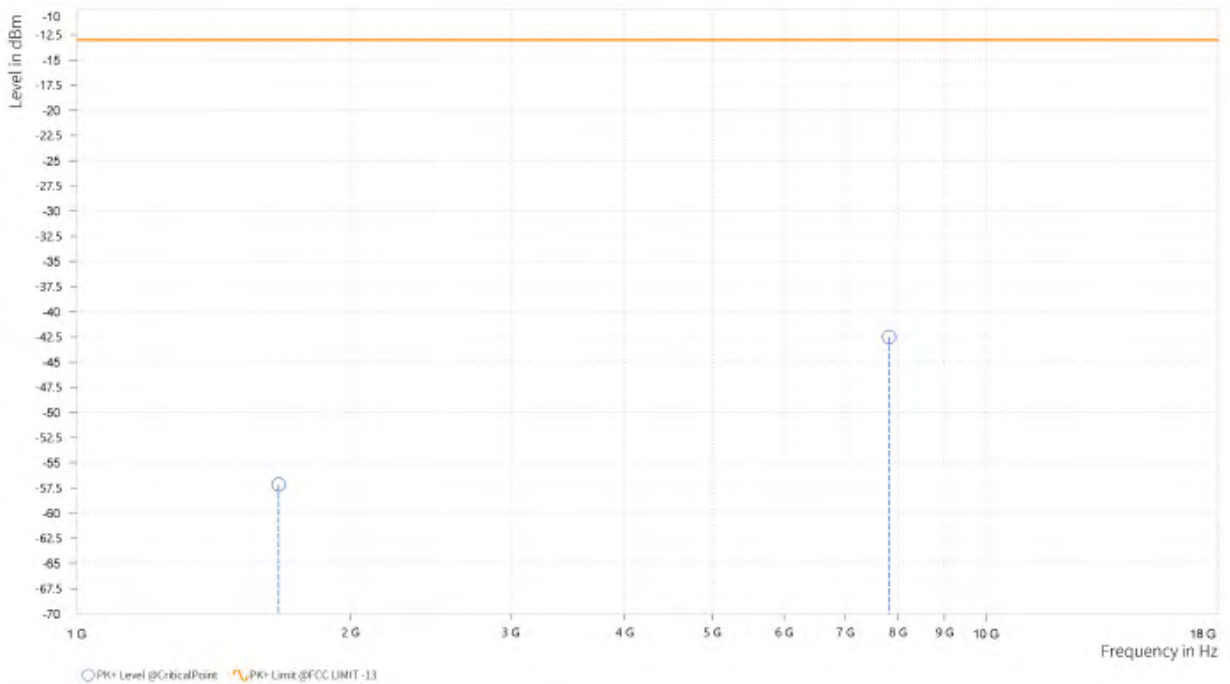


**BUREAU
VERITAS**

Test Report No.: W7L-P23030005RF04

| | | | |
|--------------------------------------------------------------|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60Hz |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,668.000 | -57.17 | -13.00 | 44.17 | 13.88 | V | 359.1 | 1 |
| 5 | 7,822.500 | -42.51 | -13.00 | 29.51 | 34.04 | V | 300.7 | 1 |





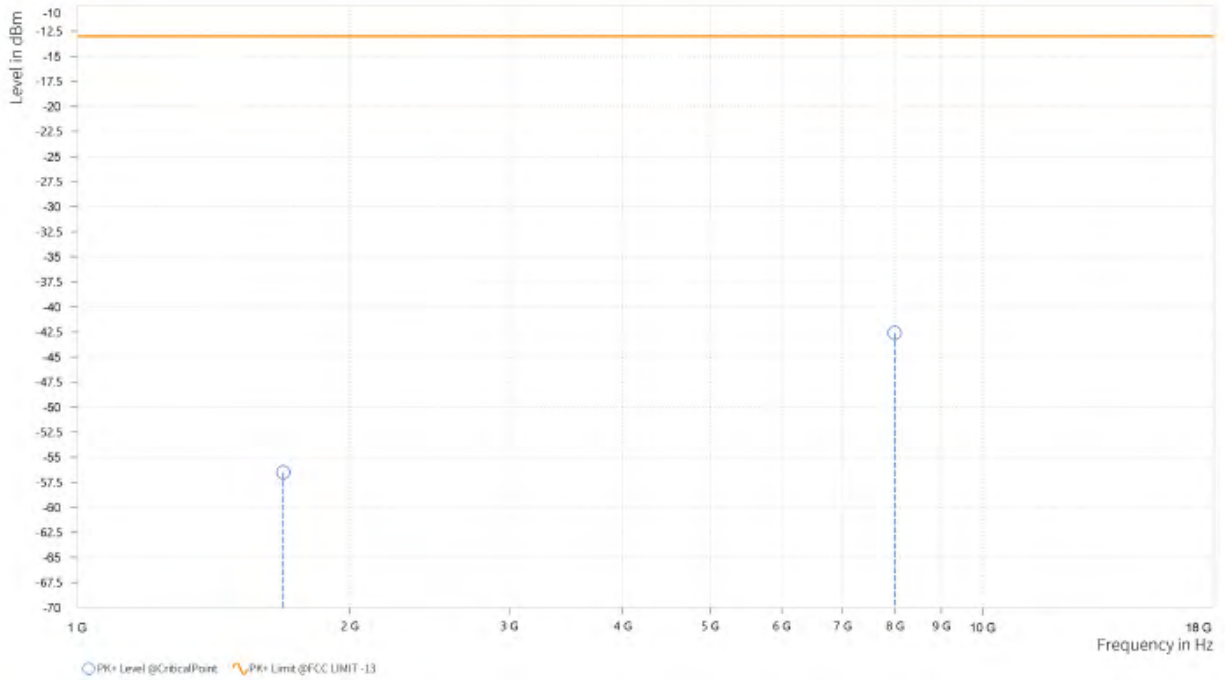
BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

CH20625

| | | | |
|----------------------------------------------------------------|------------------|------------------------|---------------|
| MODE | TX channel 20625 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60Hz |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,689.000 | -56.50 | -13.00 | 43.50 | 14.31 | H | 295.8 | 2 |
| 5 | 7,995.000 | -42.61 | -13.00 | 29.61 | 34.44 | H | 84.2 | 2 |



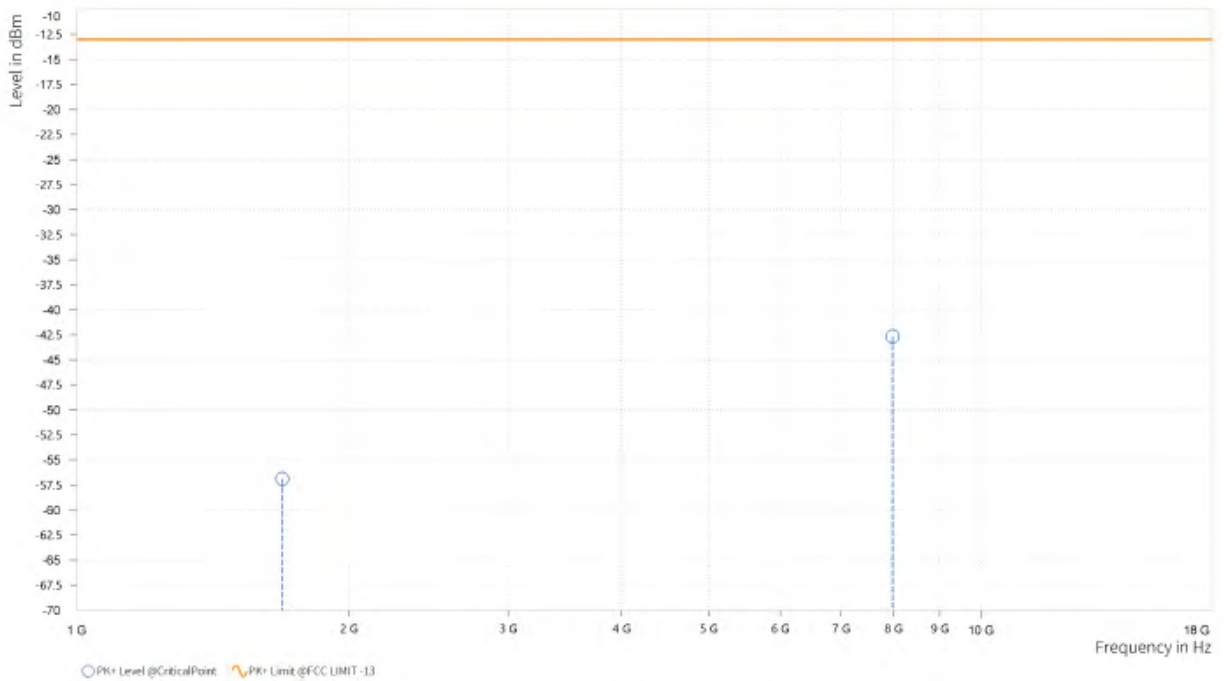


**BUREAU
VERITAS**

Test Report No.: W7L-P23030005RF04

| | | | |
|--------------------------------------------------------------|------------------|------------------------|---------------|
| MODE | TX channel 20625 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60Hz |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,688.000 | -56.88 | -13.00 | 43.88 | 14.76 | V | 359 | 2 |
| 5 | 7,983.500 | -42.65 | -13.00 | 29.65 | 34.60 | V | 275.8 | 1 |





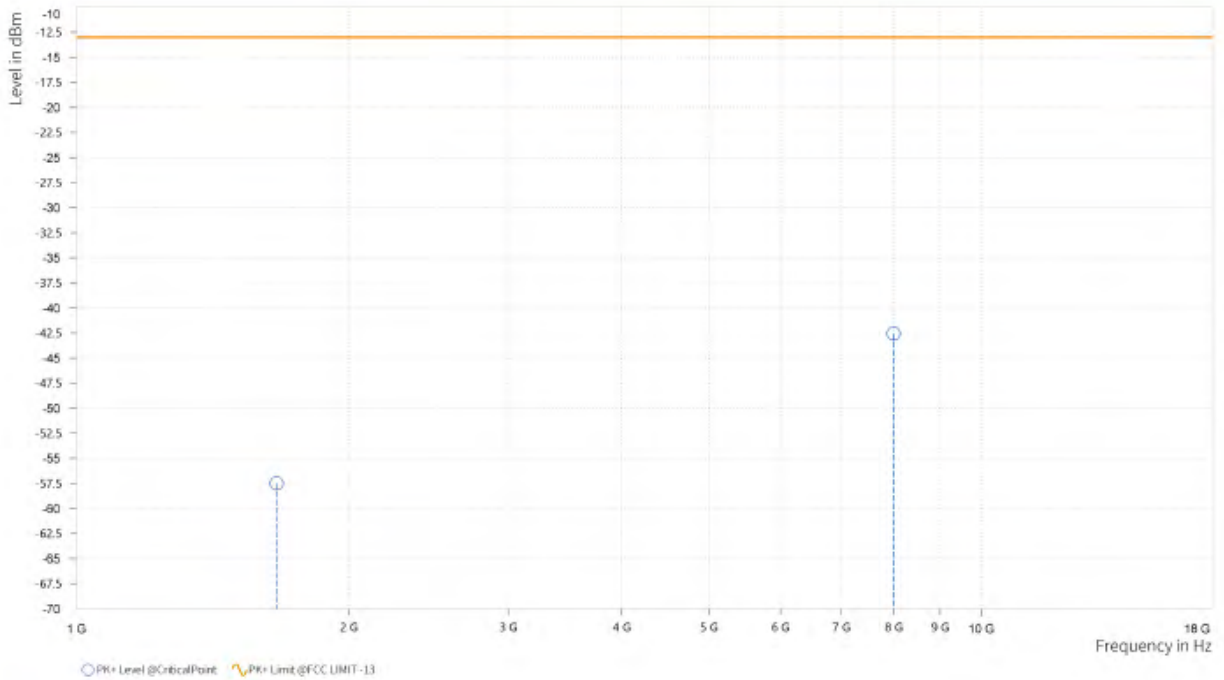
**BUREAU
VERITAS**

Test Report No.: W7L-P23030005RF04

CHANNEL BANDWIDTH: 10MHz / QPSK

| | | | |
|----------------------------------------------------------------|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60Hz |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,664.500 | -57.48 | -13.00 | 44.48 | 13.79 | H | 64.2 | 1 |
| 5 | 7,997.500 | -42.56 | -13.00 | 29.56 | 34.47 | H | 1 | 2 |



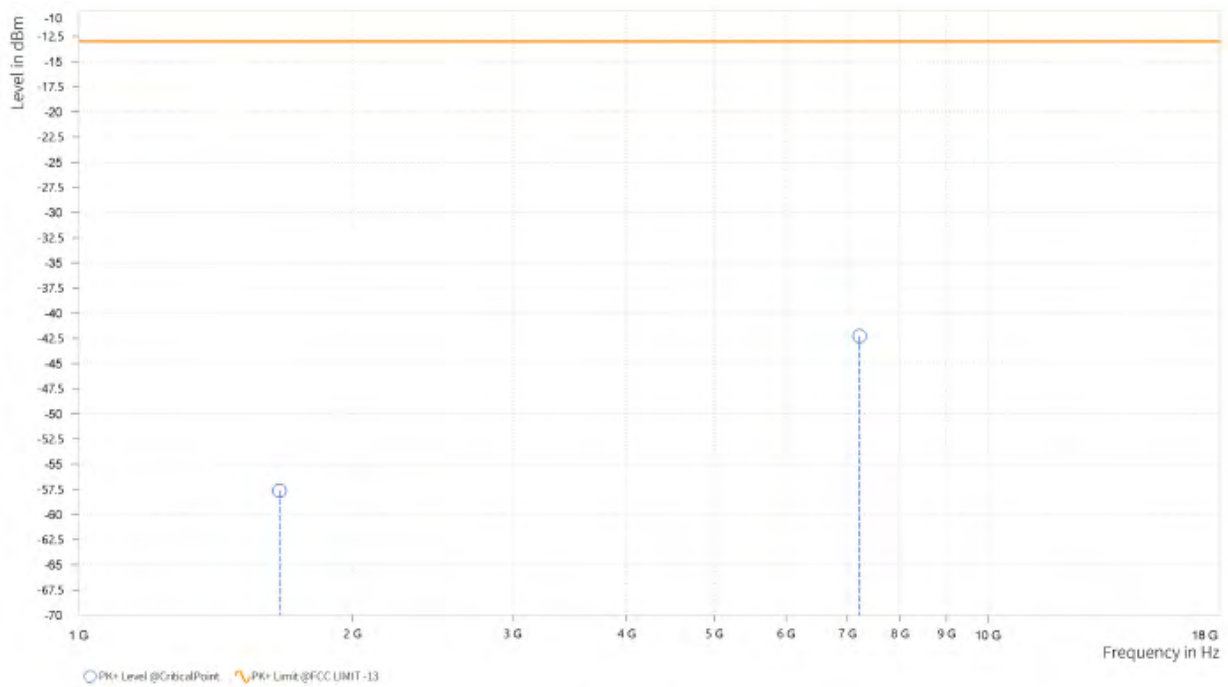


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VERITAS**

Test Report No.: W7L-P23030005RF04

| | | | |
|--------------------------------------------------------------|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60Hz |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,663.500 | -57.63 | -13.00 | 44.63 | 13.78 | V | 359 | 1 |
| 5 | 7,221.500 | -42.29 | -13.00 | 29.29 | 34.14 | V | 86.6 | 2 |



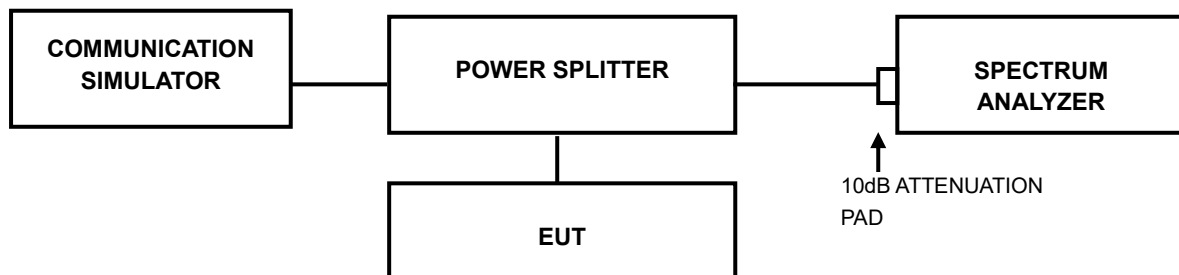


3.7 PEAK TO AVERAGE RATIO

3.7.1 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

3.7.2 TEST SETUP



3.7.3 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%.



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Test Report No.: W7L-P23030005RF04

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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Test Report No.: W7L-P23030005RF04

5 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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

Shenzhen EMC/RF Lab:

Tel: +86-755-88696566

Fax: +86-755-88696577

Email: customerservice.sw@bureauveritas.com

Web Site: www.adt.com.tw

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



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Test Report No.: W7L-P23030005RF04

6 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



7 APPENDIX

GSM850

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

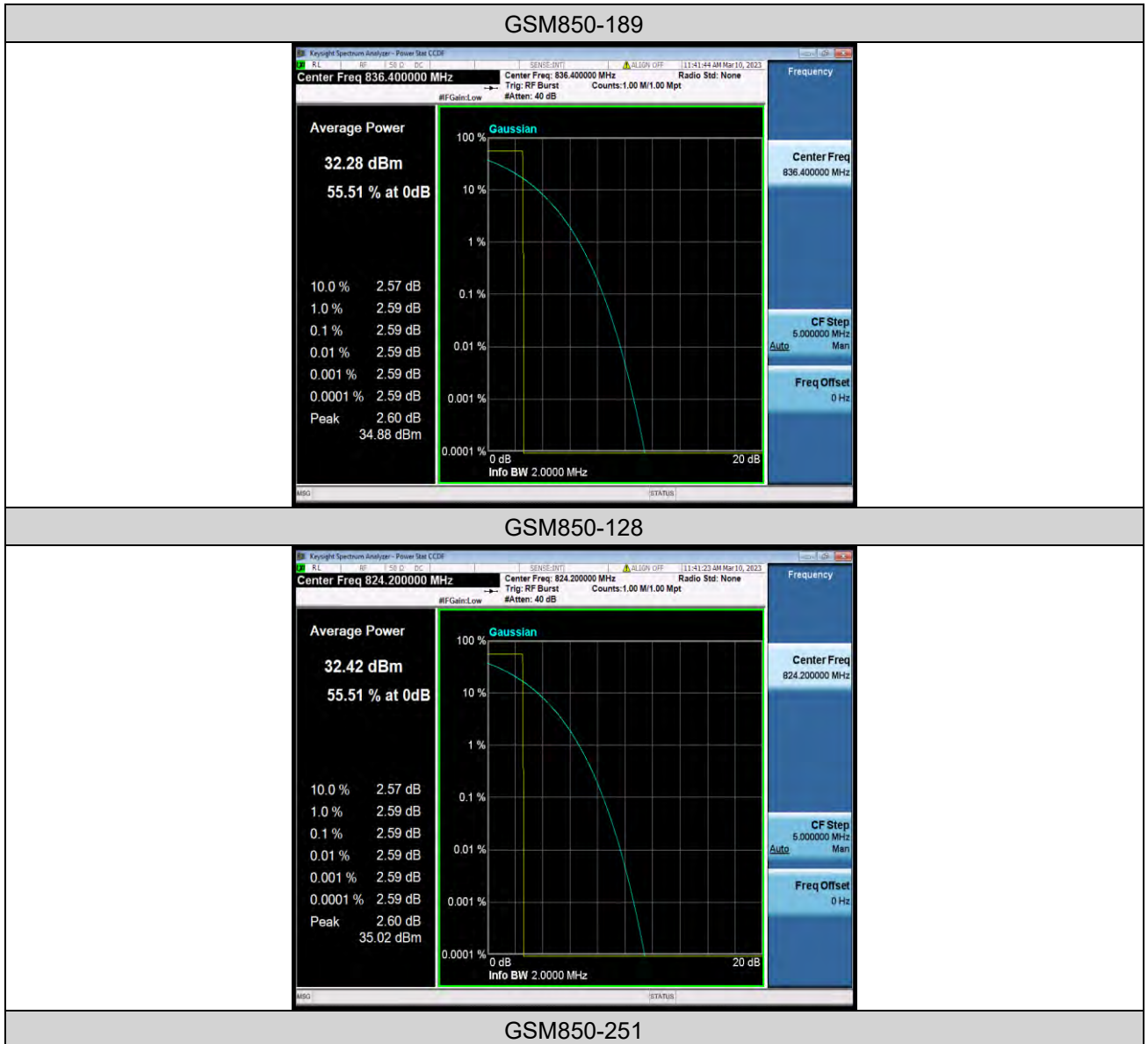
| Band | Channel | Result(dB) | Limit(dB) | Verdict |
|----------|---------|------------|-----------|---------|
| GSM850 | 189 | 2.59 | 13 | PASS |
| GSM850 | 128 | 2.59 | 13 | PASS |
| GSM850 | 251 | 2.59 | 13 | PASS |
| EGPRS850 | 189 | 5.51 | 13 | PASS |
| EGPRS850 | 128 | 5.53 | 13 | PASS |
| EGPRS850 | 251 | 5.53 | 13 | PASS |



BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

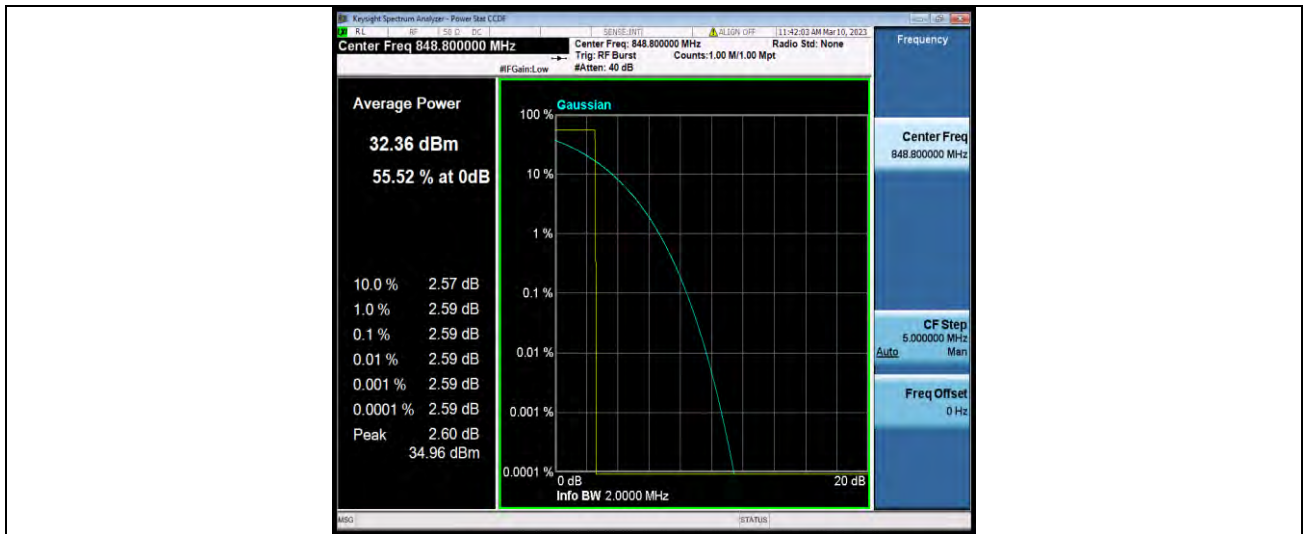
Test Graphs



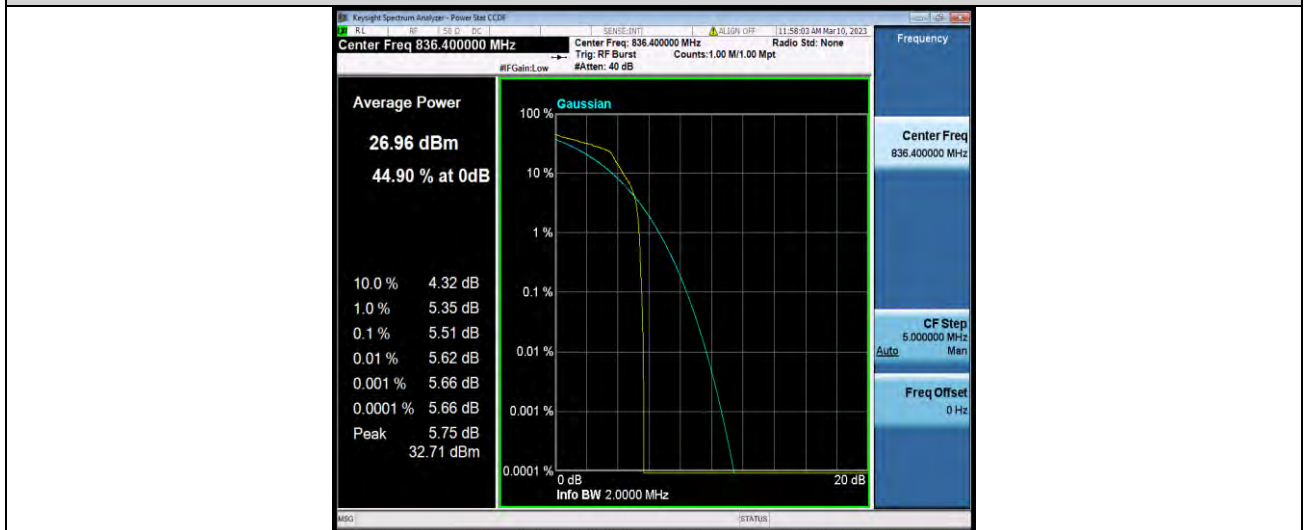


BUREAU VERITAS

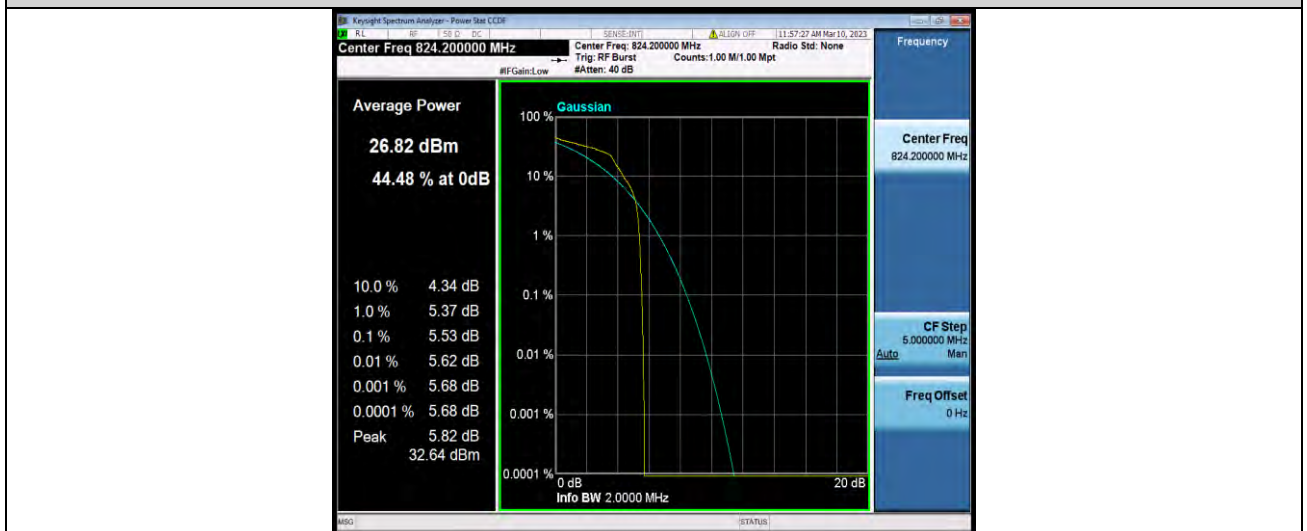
Test Report No.: W7L-P23030005RF04



EGPRS850-189



EGPRS850-128

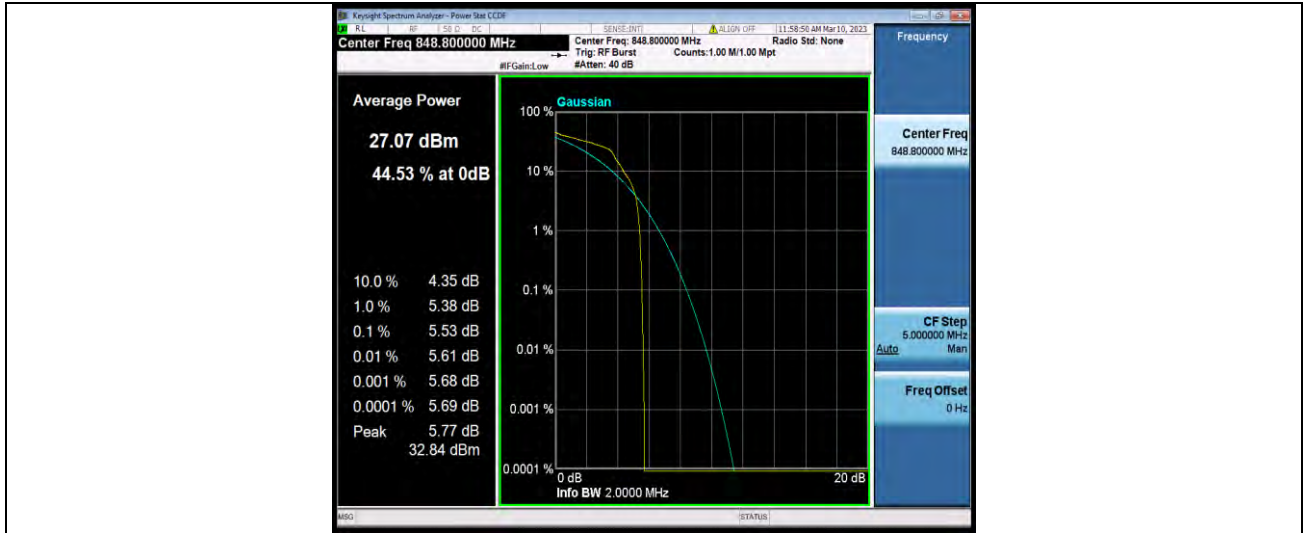


EGPRS850-251



**BUREAU
VERITAS**

Test Report No.: W7L-P23030005RF04





26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

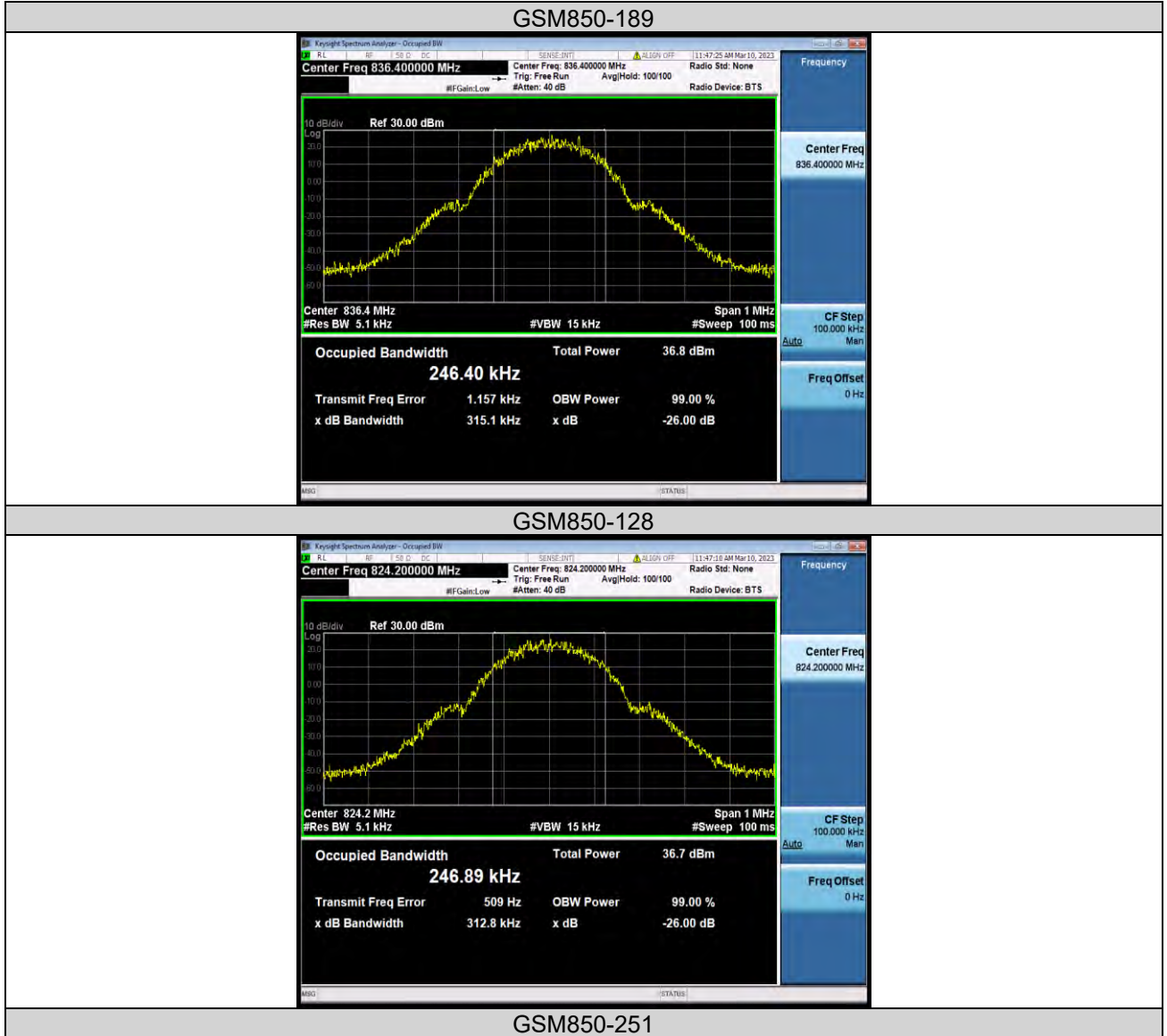
| Band | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
|----------|---------|--------------------------|----------------------|-------------|---------|
| GSM850 | 189 | 0.24640 | 0.3151 | --- | PASS |
| GSM850 | 128 | 0.24689 | 0.3128 | --- | PASS |
| GSM850 | 251 | 0.24635 | 0.3144 | --- | PASS |
| EGPRS850 | 189 | 0.24729 | 0.3062 | --- | PASS |
| EGPRS850 | 128 | 0.25125 | 0.3115 | --- | PASS |
| EGPRS850 | 251 | 0.25134 | 0.3192 | --- | PASS |



BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

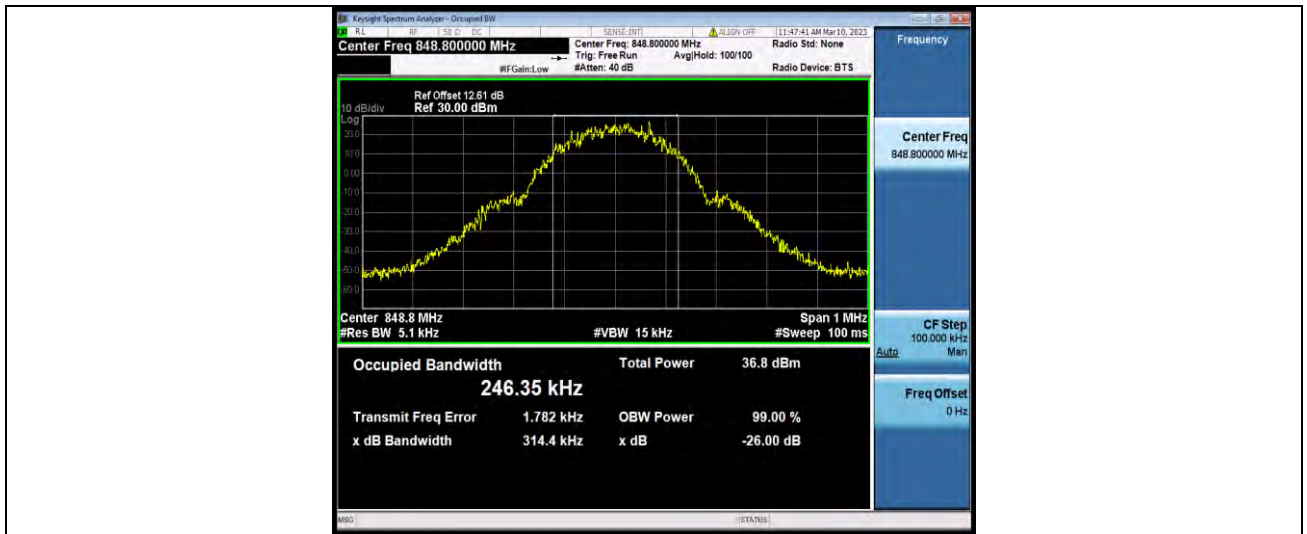
Test Graphs



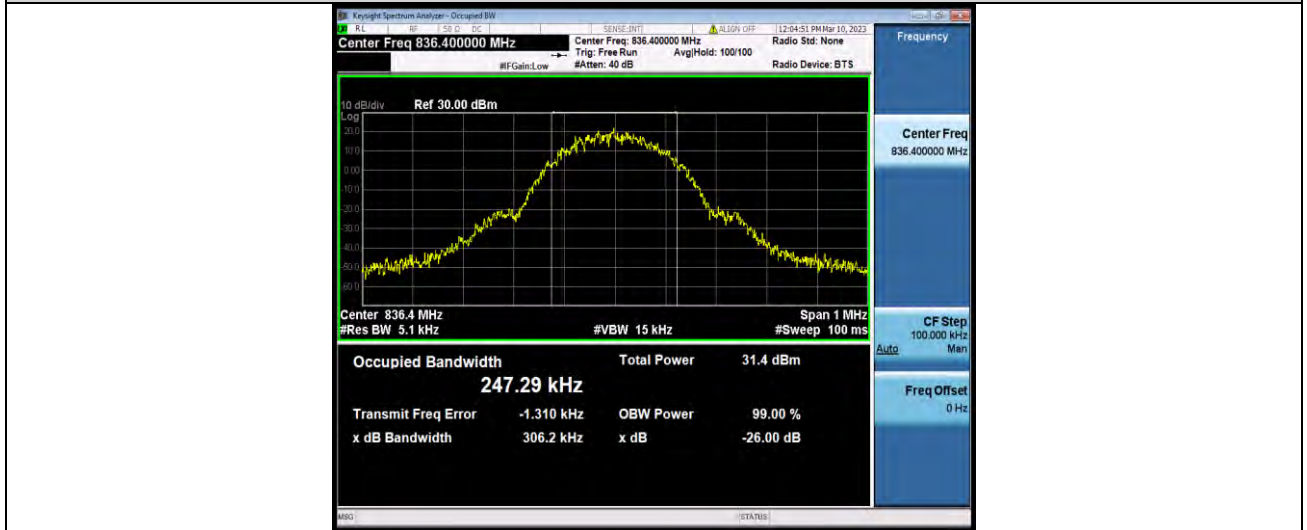


BUREAU VERITAS

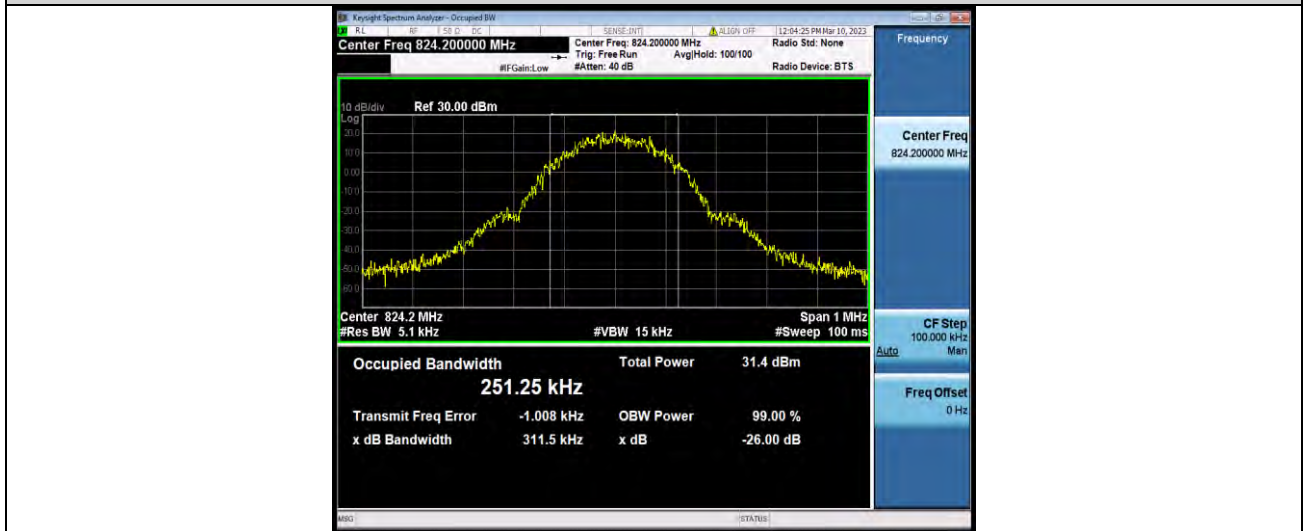
Test Report No.: W7L-P23030005RF04



EGPRS850-189



EGPRS850-128

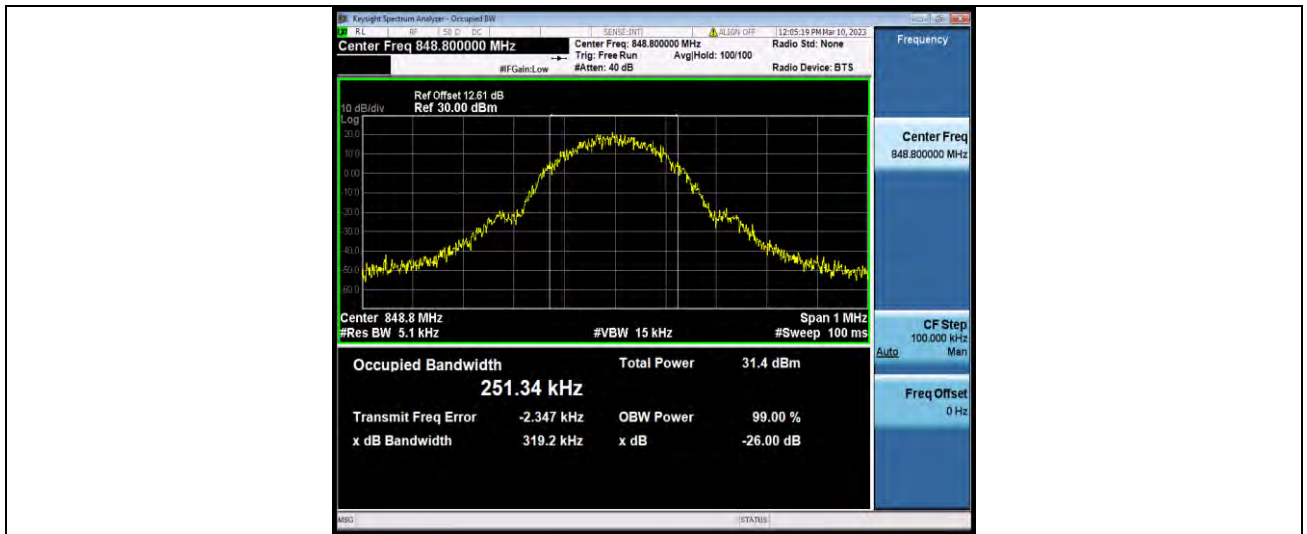


EGPRS850-251



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Test Report No.: W7L-P23030005RF04





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Test Report No.: W7L-P23030005RF04

BAND EDGE

Test Result

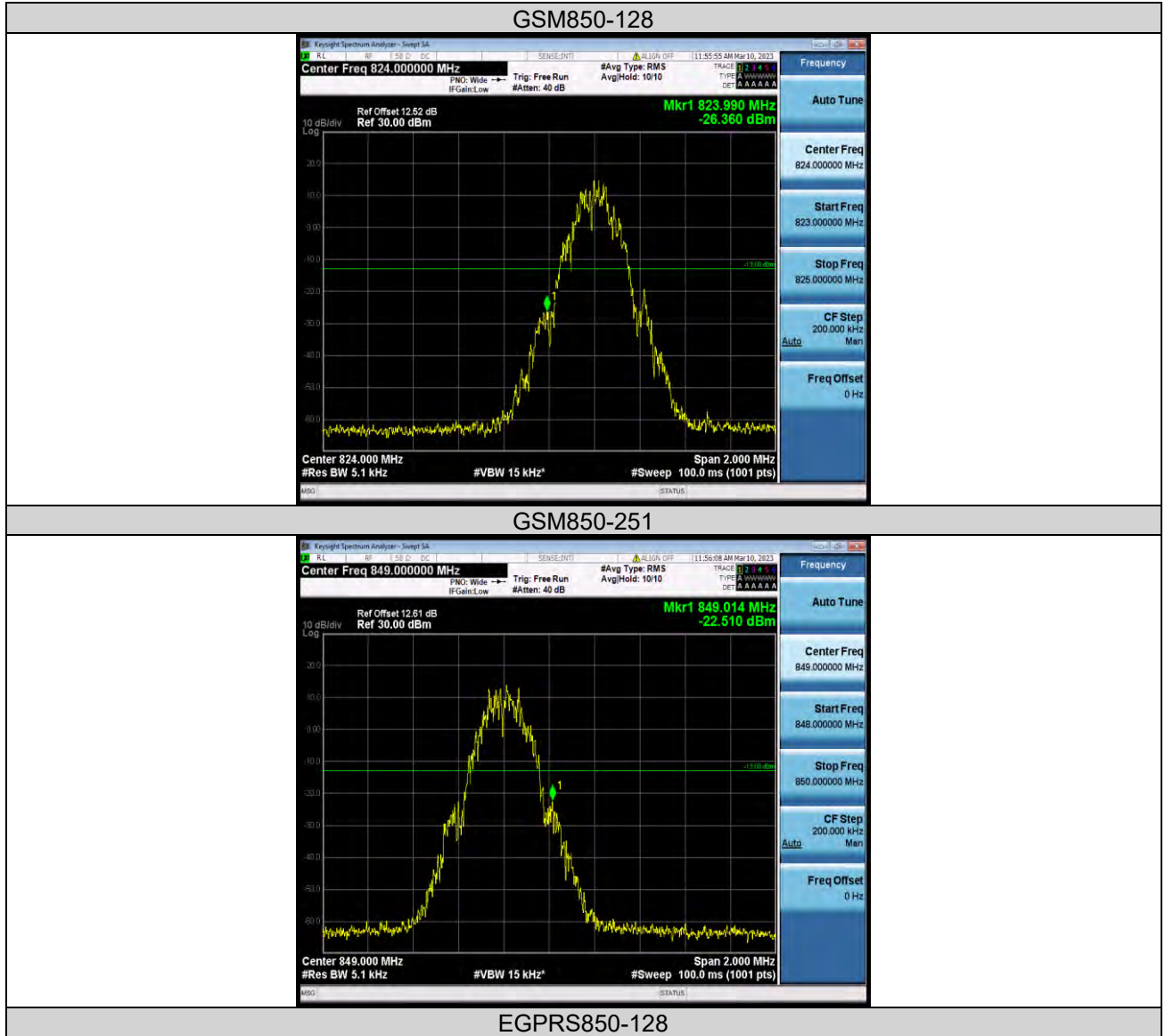
| Band | Channel | Freq (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|----------|---------|------------|--------------|------------|---------|
| GSM850 | 128 | 823.99 | -26.36 | -13 | PASS |
| GSM850 | 251 | 849.01 | -22.51 | -13 | PASS |
| EGPRS850 | 128 | 823.96 | -33.50 | -13 | PASS |
| EGPRS850 | 251 | 849.02 | -25.40 | -13 | PASS |



BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

Test Graphs

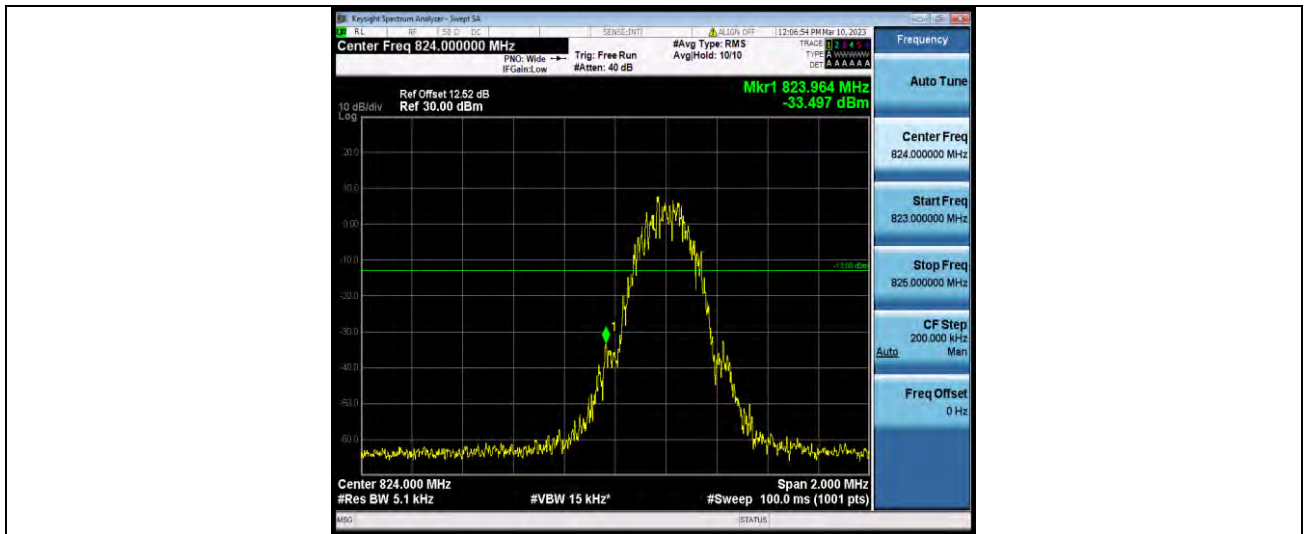


EGPRS850-128

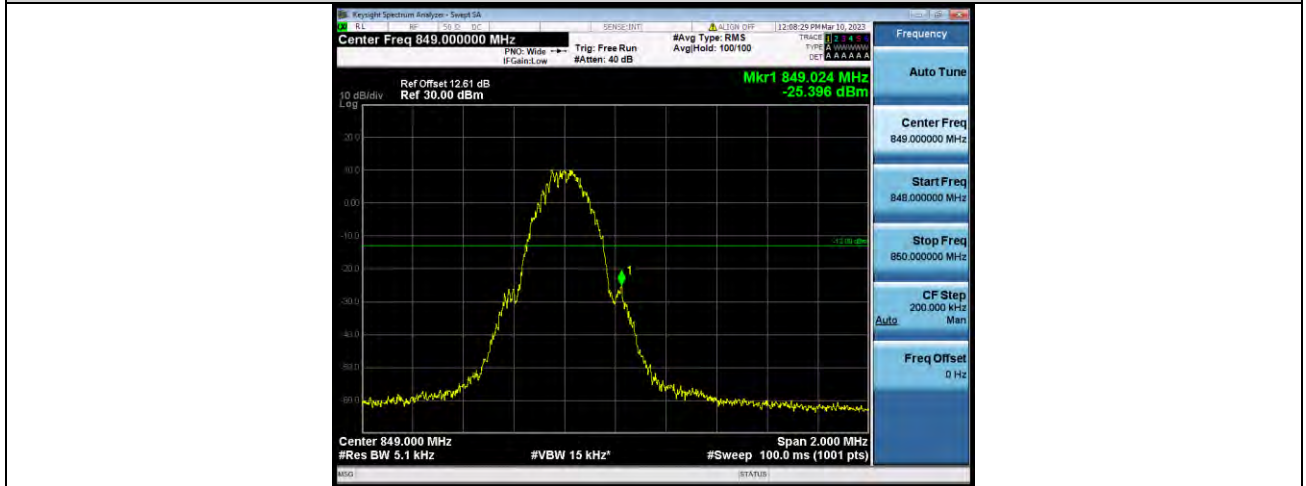


BUREAU
VERITAS

Test Report No.: W7L-P23030005RF04



EGPRS850-251





CONDUCTED SPURIOUS EMISSION

Test Result

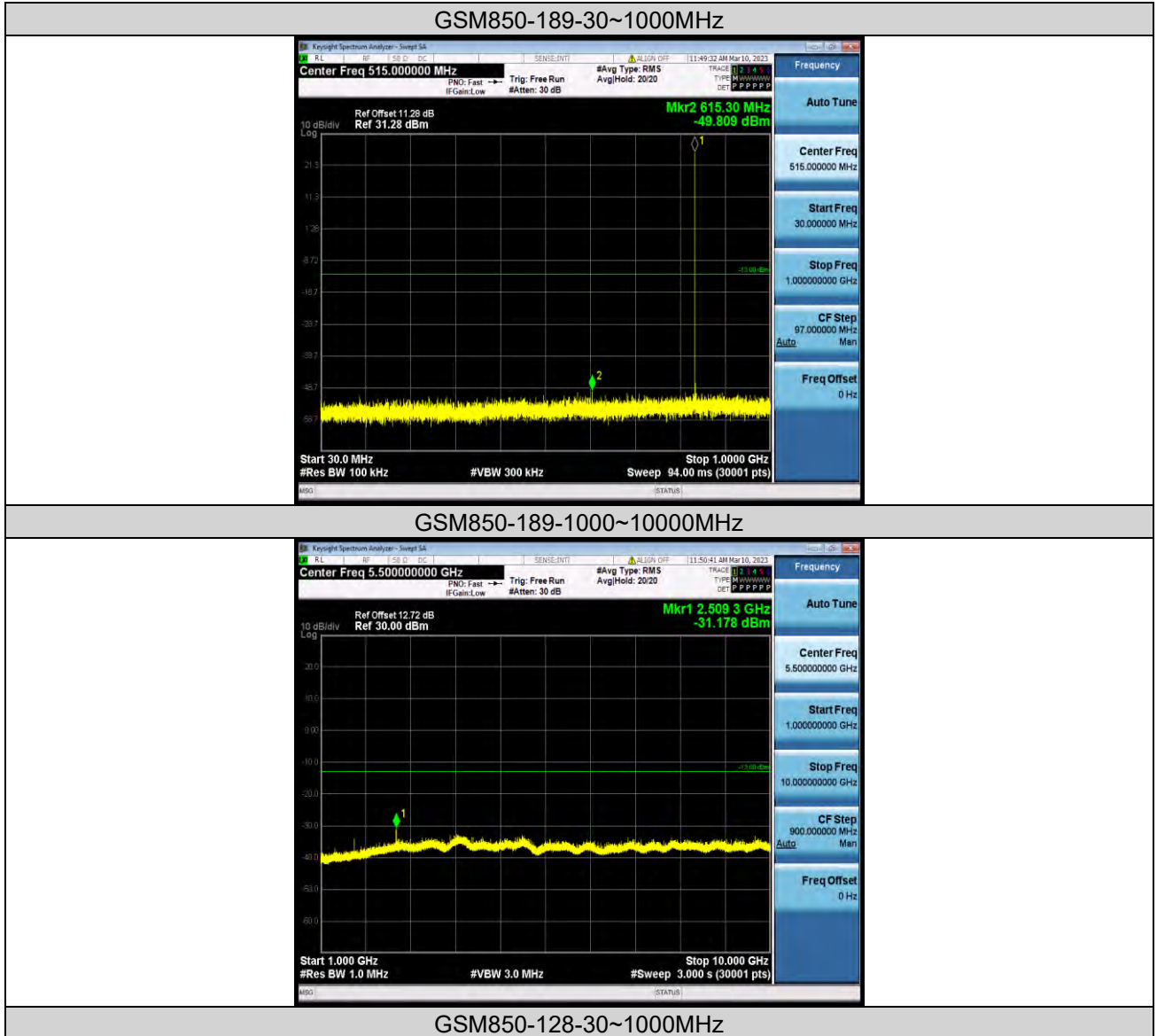
| Band | Channel | Frequency Range(MHz) | Max.Freq. (MHz) | Result (dBm) | Limit (dBm) | Verdict |
|----------|---------|----------------------|-----------------|--------------|-------------|---------|
| GSM850 | 189 | 30~1000MHz | 615.3 | -49.81 | -13 | PASS |
| GSM850 | 189 | 1000~10000MHz | 2509.3 | -31.18 | -13 | PASS |
| GSM850 | 128 | 30~1000MHz | 926.25 | -50.21 | -13 | PASS |
| GSM850 | 128 | 1000~10000MHz | 2473 | -30.83 | -13 | PASS |
| GSM850 | 251 | 30~1000MHz | 604.73 | -50.58 | -13 | PASS |
| GSM850 | 251 | 1000~10000MHz | 2546.2 | -31.13 | -13 | PASS |
| EGPRS850 | 189 | 30~1000MHz | 970.38 | -50.03 | -13 | PASS |
| EGPRS850 | 189 | 1000~10000MHz | 3757.9 | -32.77 | -13 | PASS |
| EGPRS850 | 128 | 30~1000MHz | 929.32 | -50.13 | -13 | PASS |
| EGPRS850 | 128 | 1000~10000MHz | 3859.6 | -32.11 | -13 | PASS |
| EGPRS850 | 251 | 30~1000MHz | 966.05 | -49.54 | -13 | PASS |
| EGPRS850 | 251 | 1000~10000MHz | 3868.6 | -32.7 | -13 | PASS |



BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

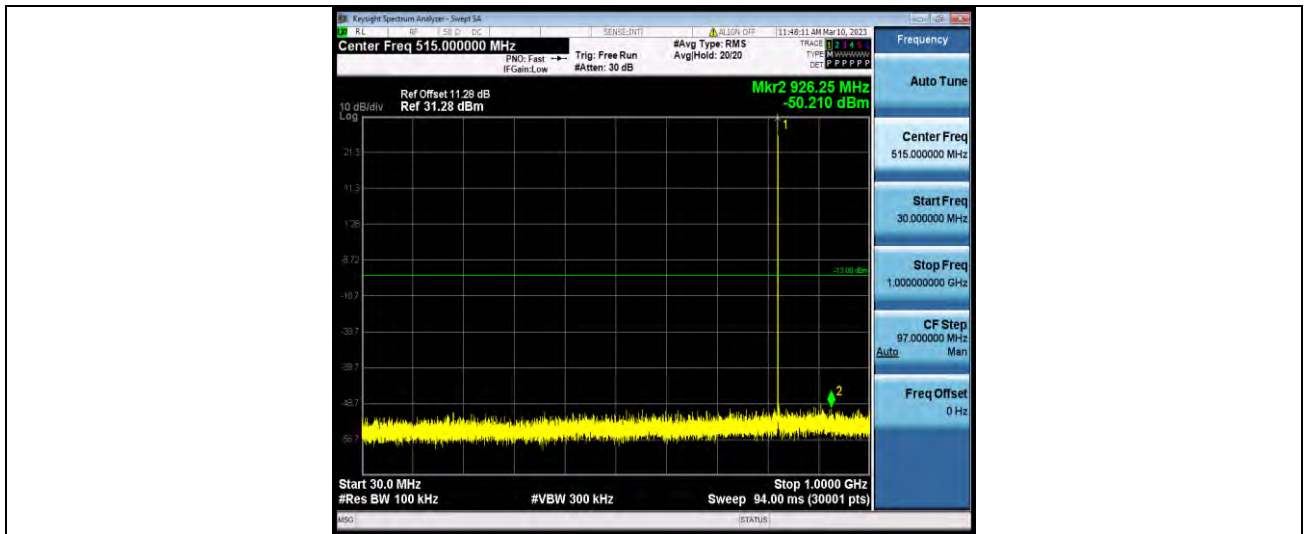
Test Graphs



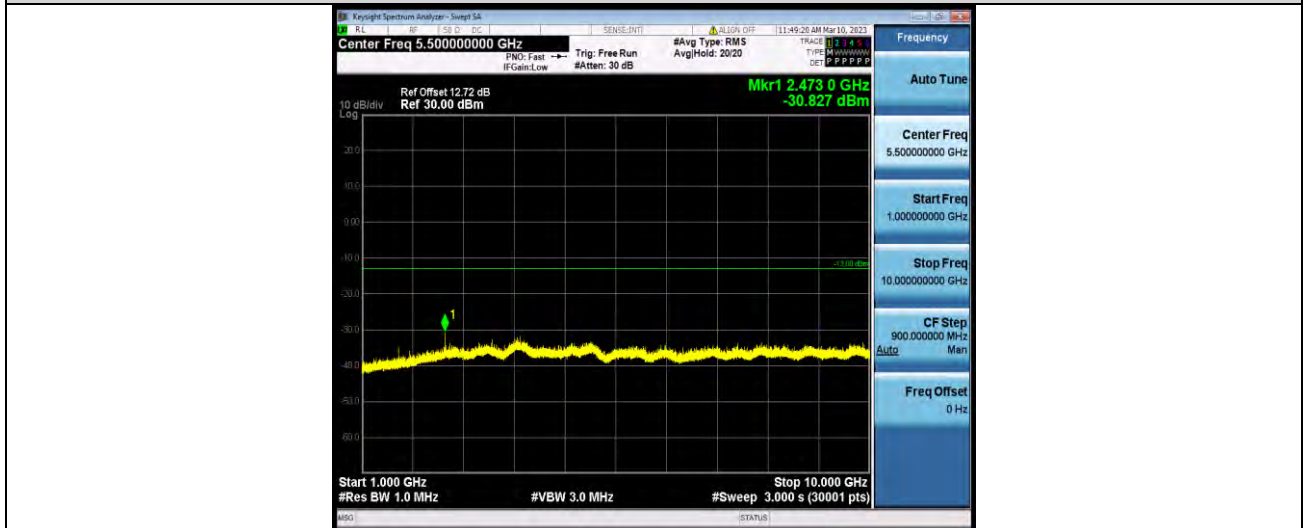


BUREAU VERITAS

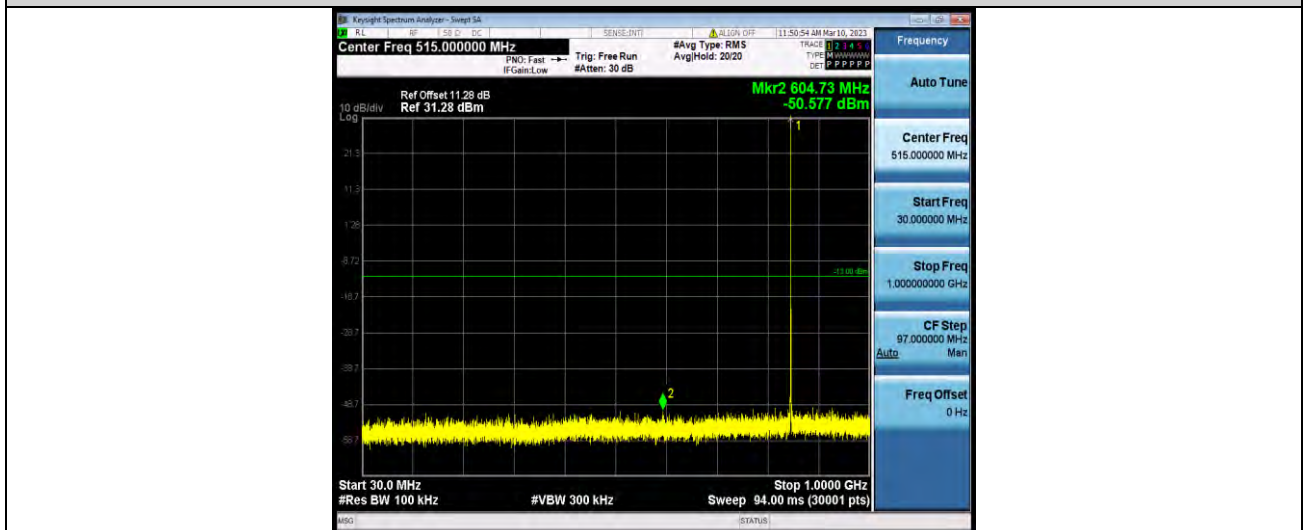
Test Report No.: W7L-P23030005RF04



GSM850-128-1000~10000MHz



GSM850-251-30~1000MHz



GSM850-251-1000~10000MHz



BUREAU VERITAS

Test Report No.: W7L-P23030005RF04



EGPRS850-189-30~1000MHz



EGPRS850-189-1000~10000MHz

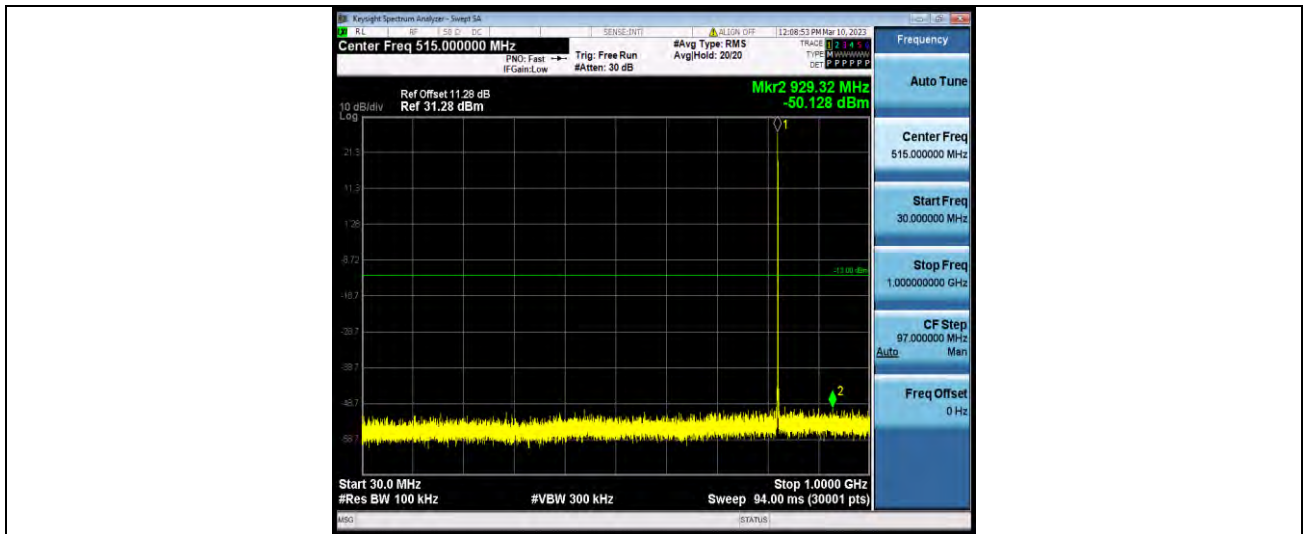


EGPRS850-128-30~1000MHz



BUREAU VERITAS

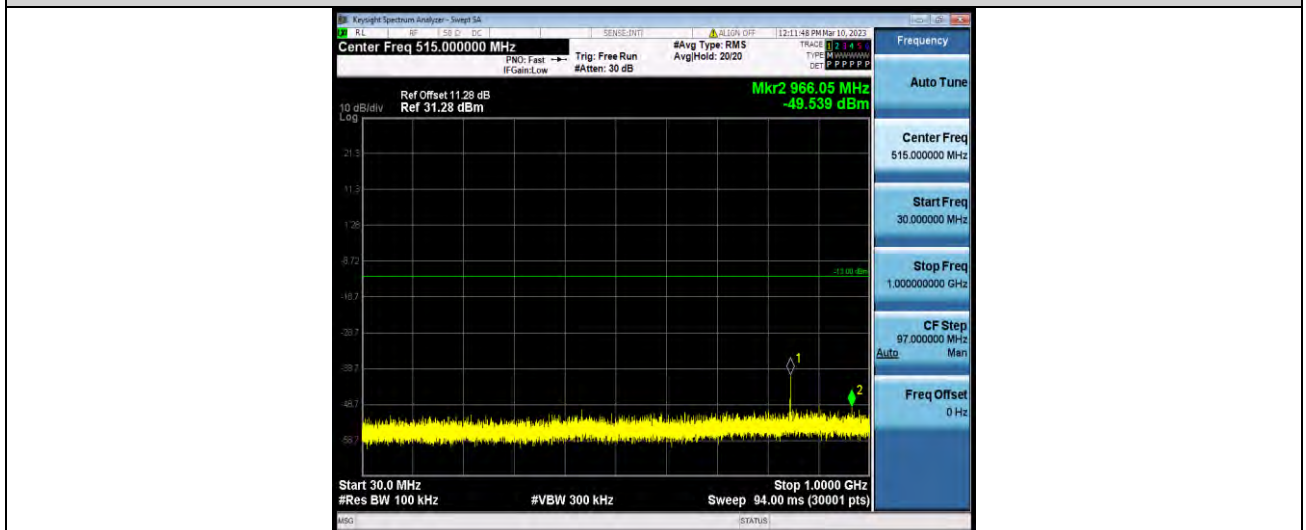
Test Report No.: W7L-P23030005RF04



EGPRS850-128-1000~10000MHz



EGPRS850-251-30~1000MHz



EGPRS850-251-1000~10000MHz



**BUREAU
VERITAS**

Test Report No.: W7L-P23030005RF04



FREQUENCY STABILITY

Test Result

| Voltage | | | | | | | |
|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| GSM850 | 189 | LV | NT | 0.90 | 0.001076 | ±2.5 | PASS |
| GSM850 | 189 | NV | NT | 4.26 | 0.005093 | ±2.5 | PASS |
| GSM850 | 189 | HV | NT | 1.65 | 0.001973 | ±2.5 | PASS |
| GSM850 | 128 | LV | NT | 0.74 | 0.000898 | ±2.5 | PASS |
| GSM850 | 128 | NV | NT | 1.00 | 0.001213 | ±2.5 | PASS |
| GSM850 | 128 | HV | NT | 3.81 | 0.004623 | ±2.5 | PASS |
| GSM850 | 251 | LV | NT | 2.58 | 0.003040 | ±2.5 | PASS |
| GSM850 | 251 | NV | NT | -1.23 | -0.001449 | ±2.5 | PASS |
| GSM850 | 251 | HV | NT | -1.19 | -0.001402 | ±2.5 | PASS |

| Temperature | | | | | | | |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| GSM850 | 189 | NV | -30 | 1.23 | 0.001471 | ±2.5 | PASS |
| GSM850 | 189 | NV | -20 | 3.20 | 0.003826 | ±2.5 | PASS |
| GSM850 | 189 | NV | -10 | 6.23 | 0.007449 | ±2.5 | PASS |
| GSM850 | 189 | NV | 0 | 2.49 | 0.002977 | ±2.5 | PASS |
| GSM850 | 189 | NV | 10 | 6.39 | 0.007640 | ±2.5 | PASS |
| GSM850 | 189 | NV | 20 | 2.74 | 0.003276 | ±2.5 | PASS |
| GSM850 | 189 | NV | 30 | 2.81 | 0.003360 | ±2.5 | PASS |
| GSM850 | 189 | NV | 40 | 3.87 | 0.004627 | ±2.5 | PASS |



| | | | | | | | |
|--------|-----|----|-----|-------|-----------|------|------|
| GSM850 | 189 | NV | 50 | 1.23 | 0.001471 | ±2.5 | PASS |
| GSM850 | 128 | NV | -30 | -4.04 | -0.004902 | ±2.5 | PASS |
| GSM850 | 128 | NV | -20 | 3.97 | 0.004817 | ±2.5 | PASS |
| GSM850 | 128 | NV | -10 | 5.71 | 0.006928 | ±2.5 | PASS |
| GSM850 | 128 | NV | 0 | 3.81 | 0.004623 | ±2.5 | PASS |
| GSM850 | 128 | NV | 10 | 3.97 | 0.004817 | ±2.5 | PASS |
| GSM850 | 128 | NV | 20 | 3.71 | 0.004501 | ±2.5 | PASS |
| GSM850 | 128 | NV | 30 | 3.58 | 0.004344 | ±2.5 | PASS |
| GSM850 | 128 | NV | 40 | 2.45 | 0.002973 | ±2.5 | PASS |
| GSM850 | 128 | NV | 50 | 3.94 | 0.004780 | ±2.5 | PASS |
| GSM850 | 251 | NV | -30 | 2.45 | 0.002886 | ±2.5 | PASS |
| GSM850 | 251 | NV | -20 | 0.90 | 0.001060 | ±2.5 | PASS |
| GSM850 | 251 | NV | -10 | 2.74 | 0.003228 | ±2.5 | PASS |
| GSM850 | 251 | NV | 0 | 2.65 | 0.003122 | ±2.5 | PASS |
| GSM850 | 251 | NV | 10 | -0.42 | -0.000495 | ±2.5 | PASS |
| GSM850 | 251 | NV | 20 | 2.13 | 0.002509 | ±2.5 | PASS |
| GSM850 | 251 | NV | 30 | 3.29 | 0.003876 | ±2.5 | PASS |
| GSM850 | 251 | NV | 40 | 2.71 | 0.003193 | ±2.5 | PASS |
| GSM850 | 251 | NV | 50 | 0.65 | 0.000766 | ±2.5 | PASS |

Note: LV = Low voltage(3.5V); NV = Normal voltage(3.8V); HV = High voltage(4.2V);NT = Normal temperature (25°C).

MAX Deviation calculation

| Frequency Stability | Frequency(MHz) | Limit Line(MHz) | Result |
|---------------------|----------------|-----------------|--------|
| fL- MAX(Δf) | 836.2768 | ≥824 | PASS |
| fH- MAX(Δf) | 848.923175 | ≤849 | |

Note : 1. |MAX(Δf)| = Max Deviation

2. fL = Occ low channel fL(-13dBm/MHz)

3. fH = Occ High channel fH(-13dBm/MHz)

4. |MAX(Δf)| =6.39 Hz.



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Test Report No.: W7L-P23030005RF04

WCMDBA BAND5

PEAK-TO-AVERAGE RATIO

Test Result

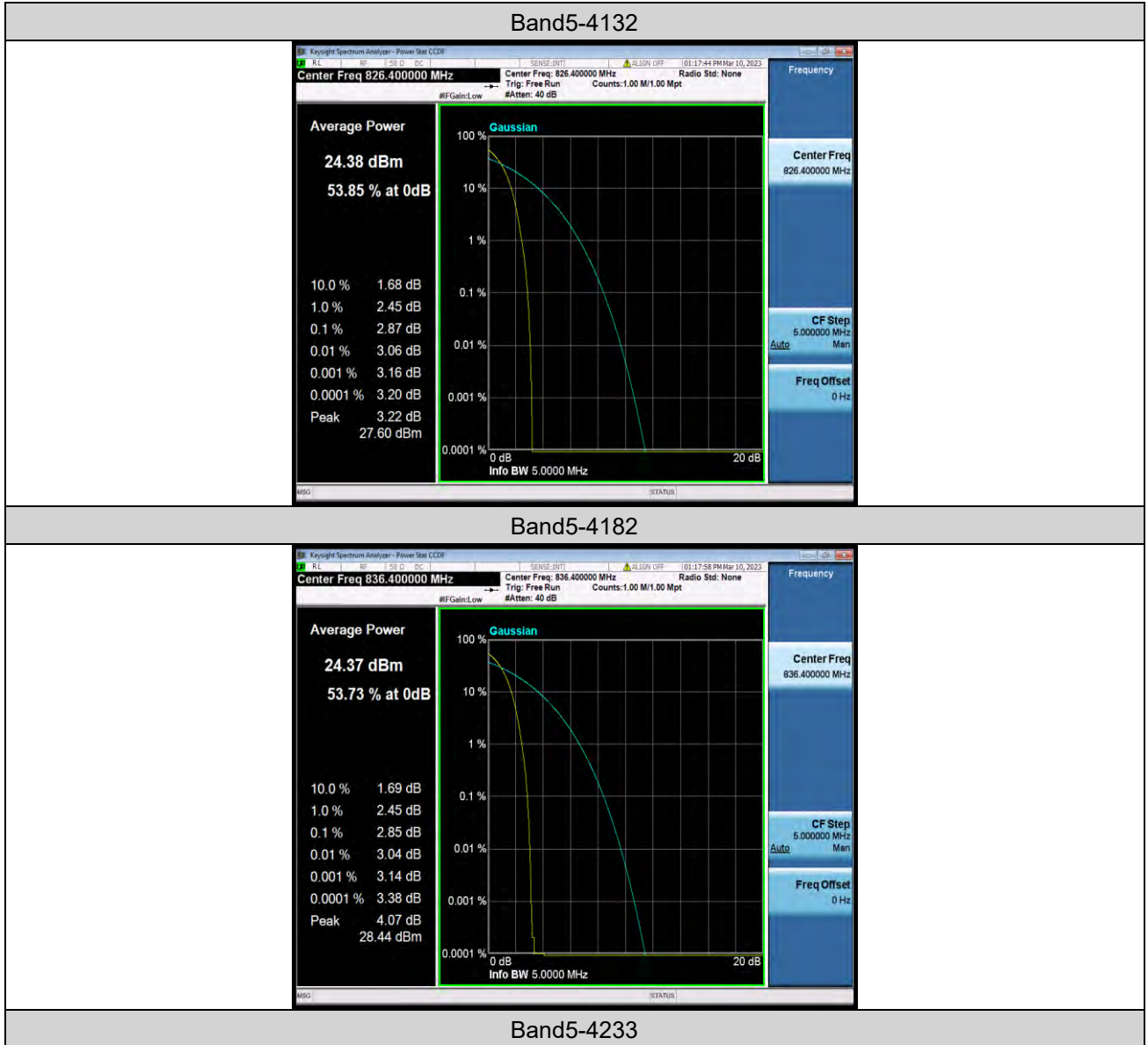
| Band | Channel | Peak-to-Average Ratio(dB) | Limit(dBm) | Verdict |
|-------|---------|---------------------------|------------|---------|
| Band5 | 4132 | 2.87 | 13 | PASS |
| Band5 | 4182 | 2.85 | 13 | PASS |
| Band5 | 4233 | 2.95 | 13 | PASS |

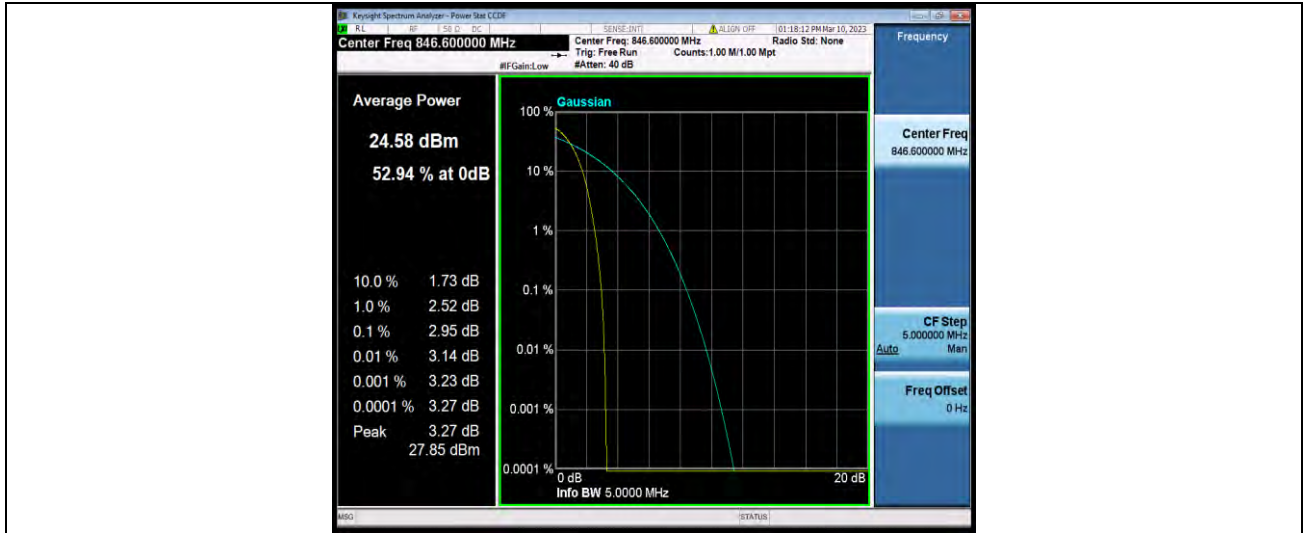


BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

Test Graphs





26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

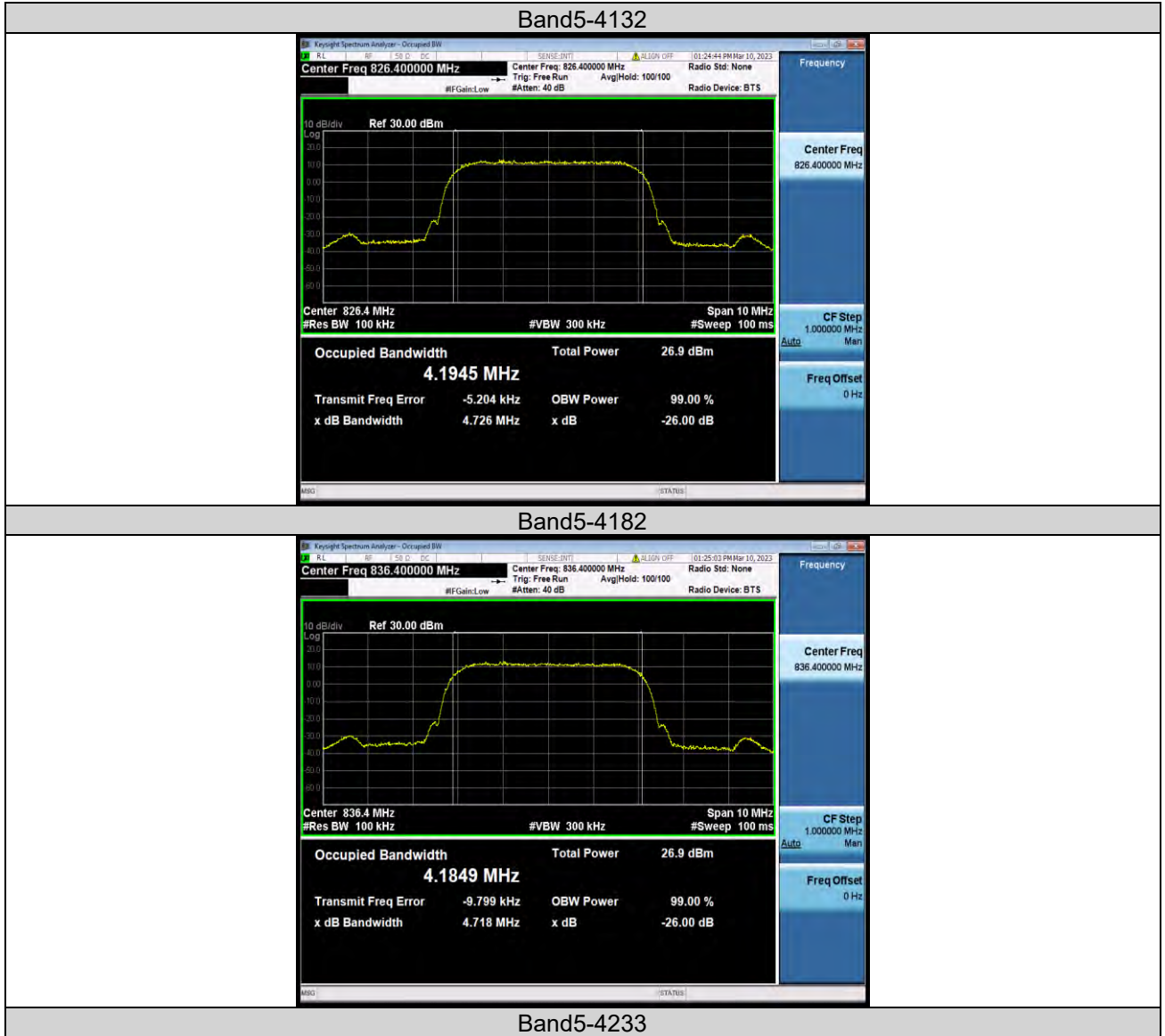
| Band | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit(kHz) | Verdict |
|-------|---------|--------------------------|----------------------|------------|---------|
| Band5 | 4132 | 4.1945 | 4.726 | --- | PASS |
| Band5 | 4182 | 4.1849 | 4.718 | --- | PASS |
| Band5 | 4233 | 4.1902 | 4.730 | --- | PASS |



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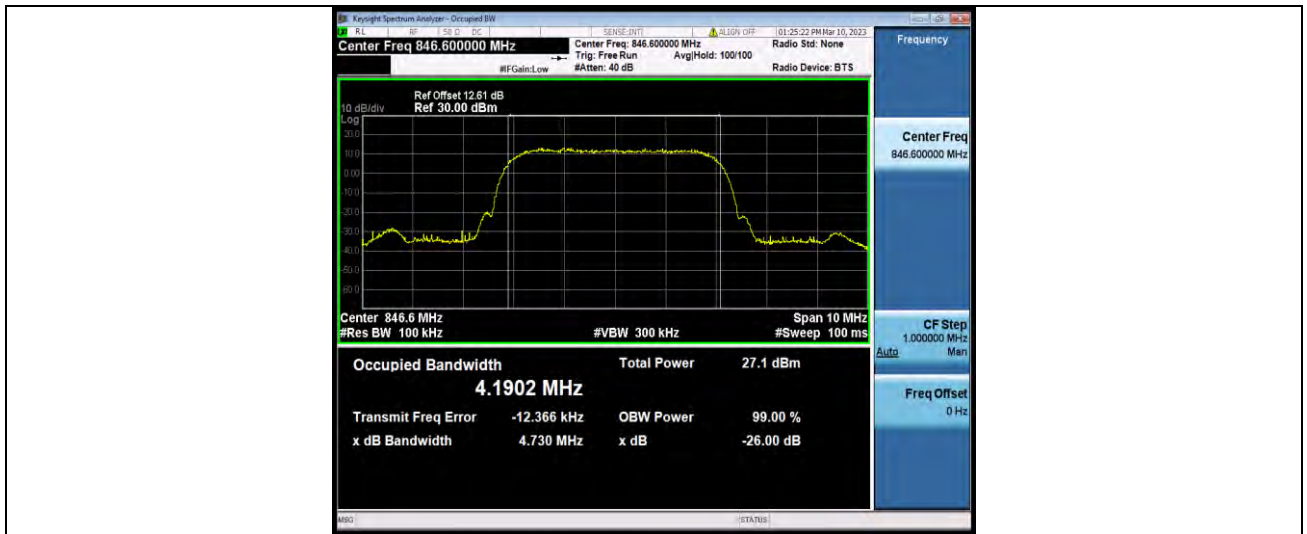
Test Graphs





**BUREAU
VERITAS**

Test Report No.: W7L-P23030005RF04



BAND EDGE

Test Result

| Band | Channel | Frequency (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|-------|---------|-----------------|--------------|------------|---------|
| Band5 | 4132 | 823.87 | -27.32 | -13 | PASS |
| Band5 | 4233 | 849.14 | -27.01 | -13 | PASS |



BUREAU VERITAS

Test Report No.: W7L-P23030005RF04

Test Graphs

