



Test Report No.: RF140812N017-1

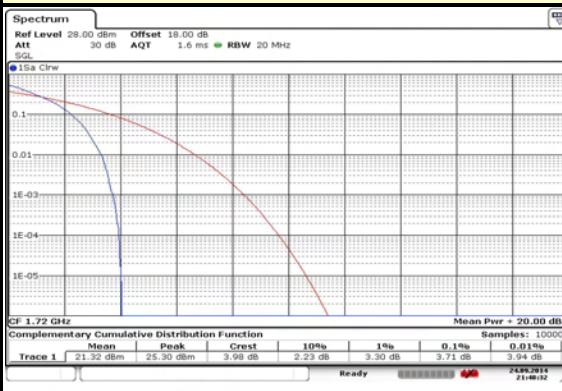
LTE BAND 4

CHANNEL BANDWIDTH: 20MHZ

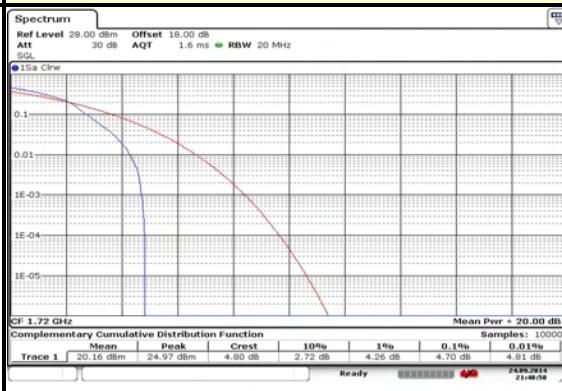
| CHANNEL | FREQUENCY (MHZ) | PEAK TO AVERAGE RATIO (DB) | |
|---------|-----------------|----------------------------|-------|
| | | QPSK | 16QAM |
| 20050 | 1720 | 3.71 | 4.70 |
| 20175 | 1732.5 | 3.86 | 4.84 |
| 20300 | 1745 | 4.72 | 5.59 |

SPECTRUM PLOT OF WORST VALUE

20MHz / QPSK / CH 20050



20MHz / 16QAM / CH 20050



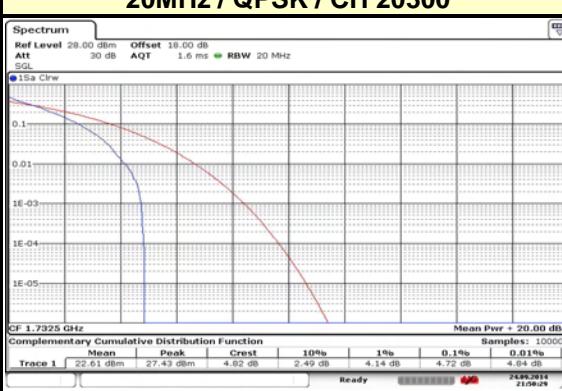
20MHz / QPSK / CH 20175



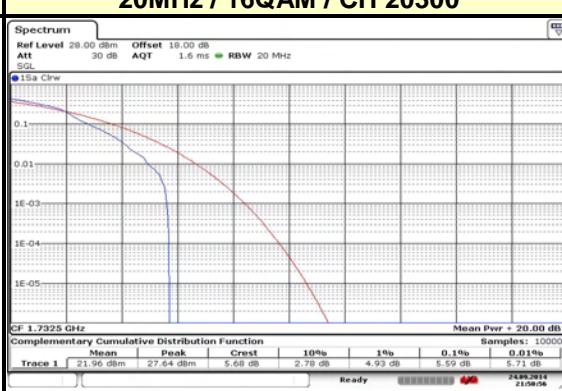
20MHz / 16QAM / CH 20175



20MHz / QPSK / CH 20300



20MHz / 16QAM / CH 20300



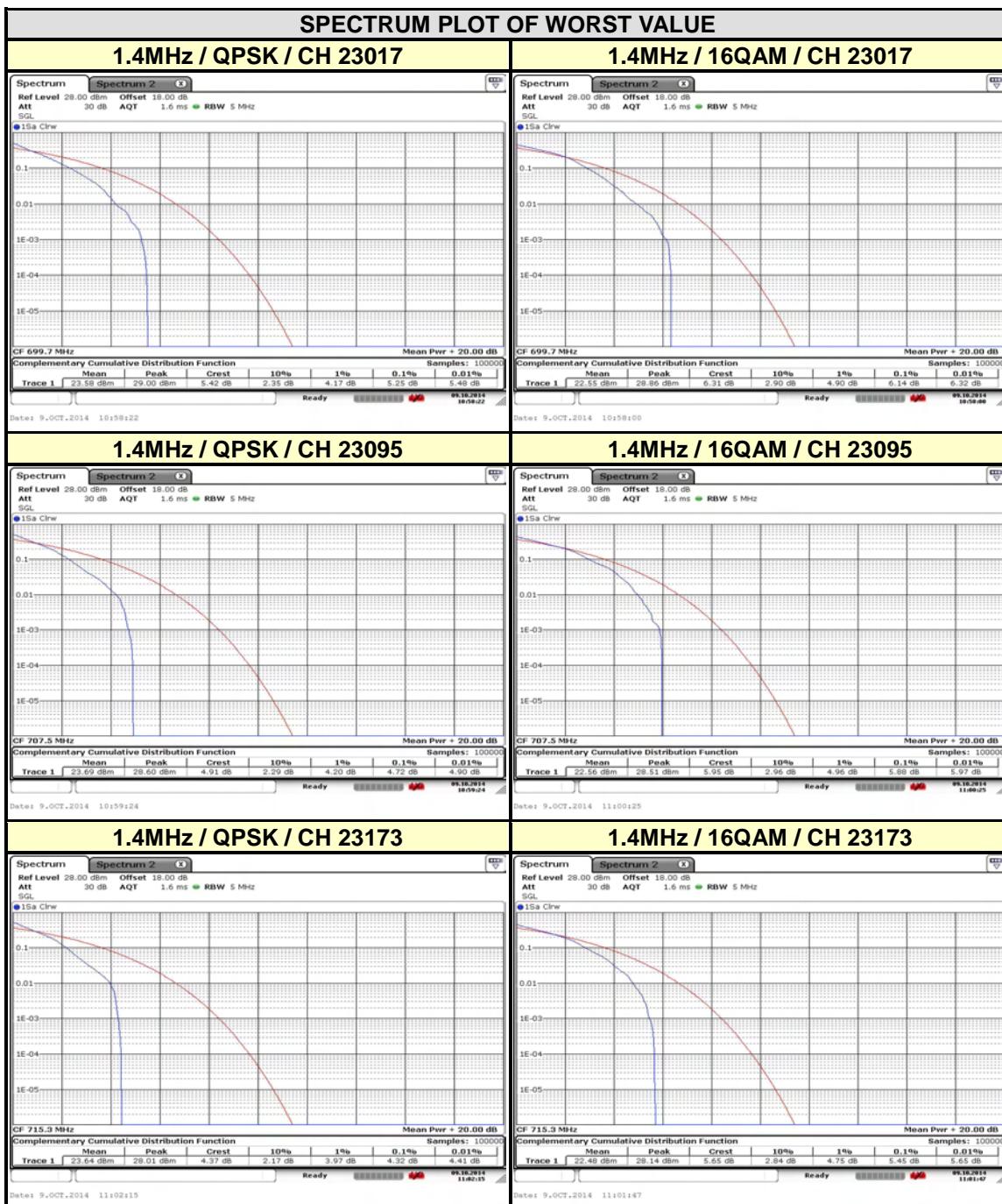


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LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz

| CHANNEL | FREQUENCY (MHz) | PEAK TO AVERAGE RATIO (dB) | |
|---------|-----------------|----------------------------|-------|
| | | QPSK | 16QAM |
| 23017 | 699.7 | 5.25 | 6.14 |
| 23095 | 707.5 | 4.72 | 5.88 |
| 23173 | 715.3 | 4.32 | 5.45 |



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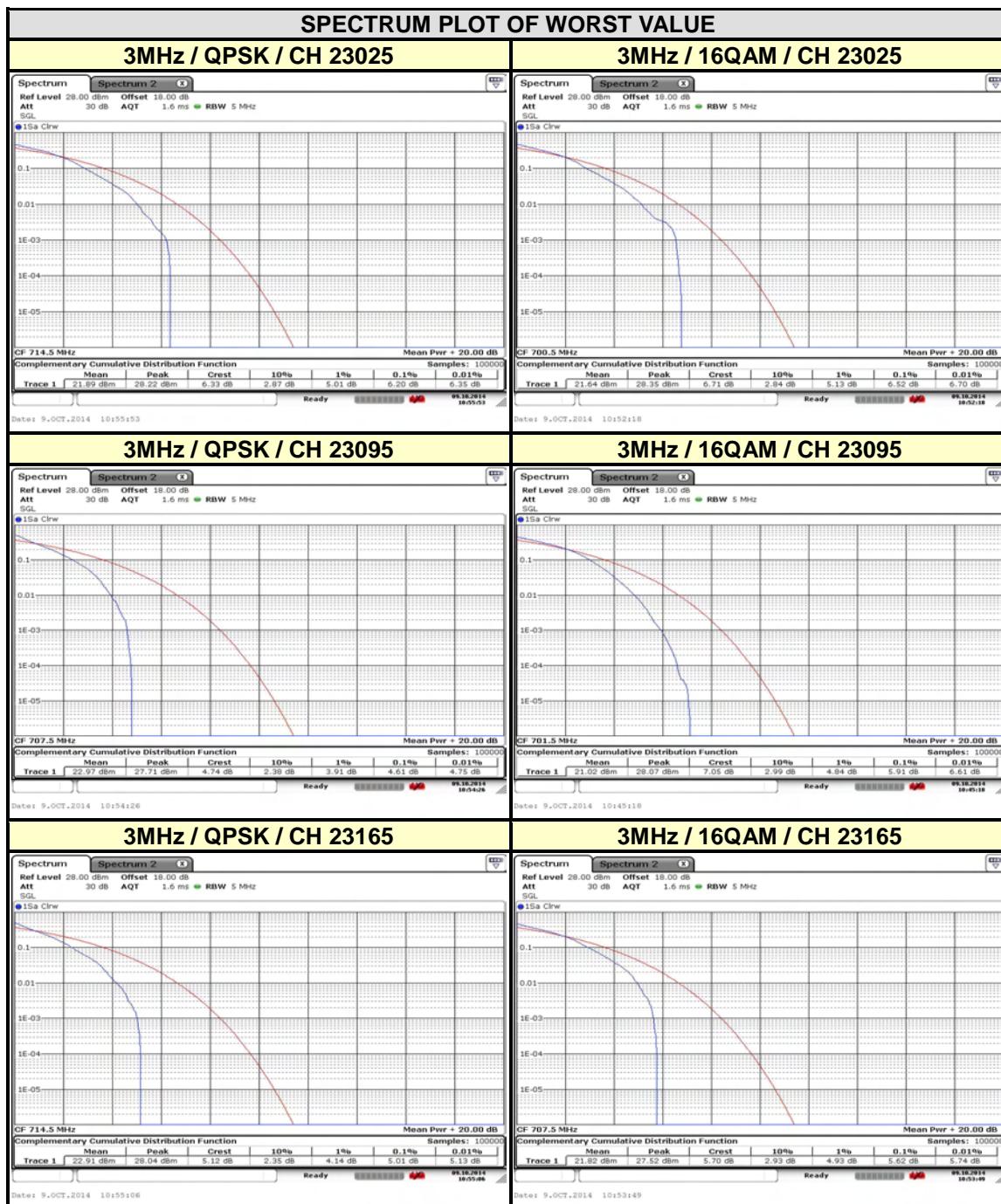
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LTE BAND 12

CHANNEL BANDWIDTH: 3MHz

| CHANNEL | Frequency (MHz) | PEAK TO AVERAGE RATIO (dB) | |
|---------|-----------------|----------------------------|-------|
| | | QPSK | 16QAM |
| 23025 | 700.5 | 6.20 | 6.52 |
| 23095 | 707.5 | 4.61 | 5.91 |
| 23165 | 714.5 | 5.01 | 5.62 |



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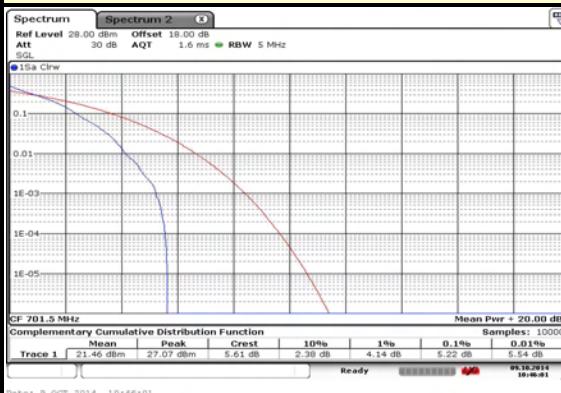
LTE BAND 12

CHANNEL BANDWIDTH: 5MHz

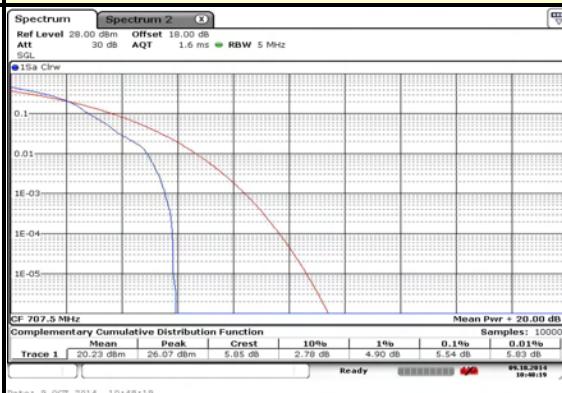
| CHANNEL | Frequency (MHz) | PEAK TO AVERAGE RATIO (dB) | |
|---------|-----------------|----------------------------|-------|
| | | QPSK | 16QAM |
| 23035 | 701.5 | 5.22 | 5.54 |
| 23095 | 707.5 | 4.41 | 6.52 |
| 23155 | 713.5 | 5.48 | 5.51 |

SPECTRUM PLOT OF WORST VALUE

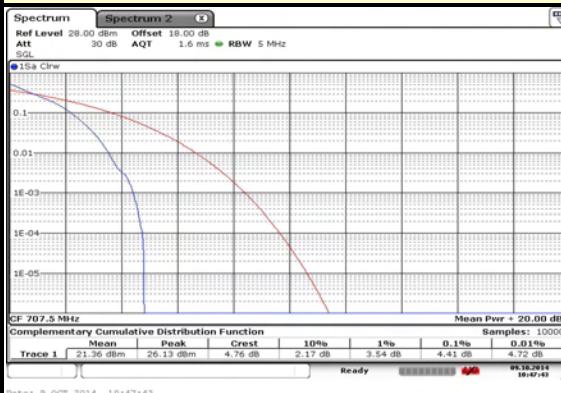
5MHz / QPSK / CH 23035



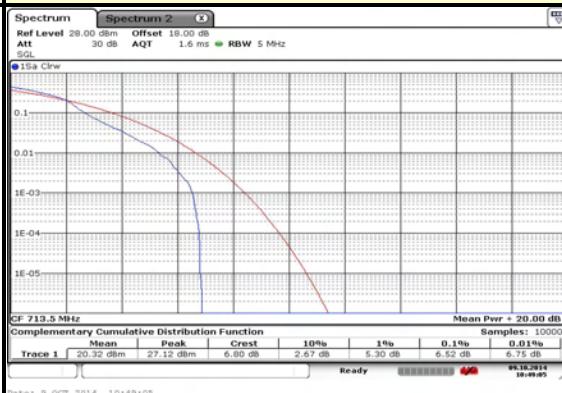
5MHz / 16QAM / CH 23035



5MHz / QPSK / CH 23095



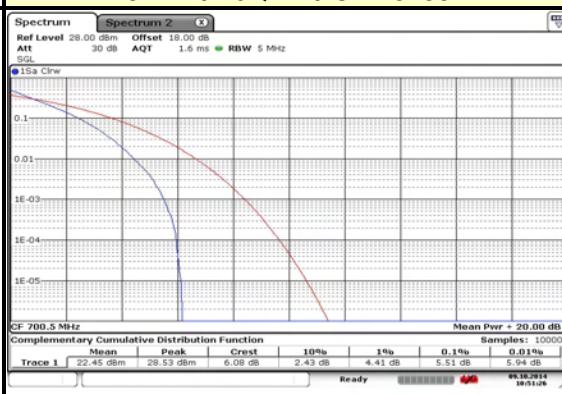
5MHz / 16QAM / CH 23095



5MHz / QPSK / CH 23155



5MHz / 16QAM / CH 23155



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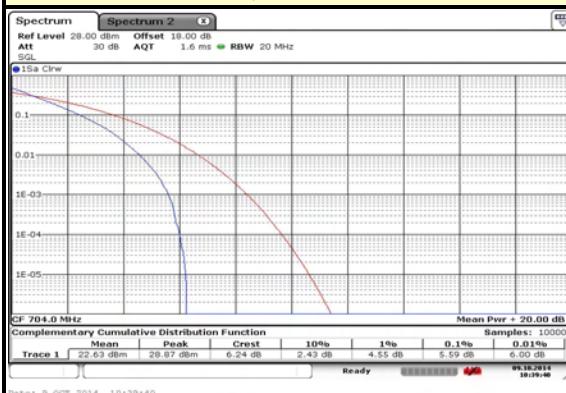
LTE BAND 12

CHANNEL BANDWIDTH: 10MHz

| CHANNEL | Frequency (MHz) | PEAK TO AVERAGE RATIO (dB) | |
|---------|-----------------|----------------------------|-------|
| | | QPSK | 16QAM |
| 23060 | 704 | 5.59 | 6.75 |
| 23095 | 707.5 | 4.20 | 5.25 |
| 23130 | 711 | 4.67 | 5.36 |

SPECTRUM PLOT OF WORST VALUE

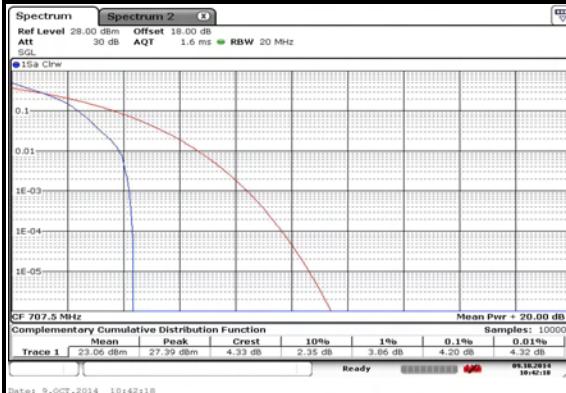
10MHz / QPSK / CH 23060



10MHz / 16QAM / CH 23060



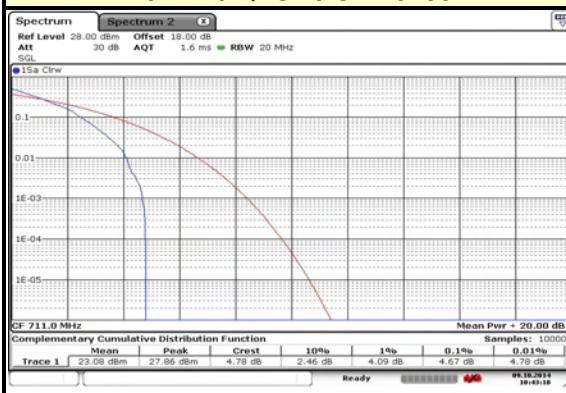
10MHz / QPSK / CH 23095



10MHz / 16QAM / CH 23095



10MHz / QPSK / CH 23130



10MHz / 16QAM / CH 23130



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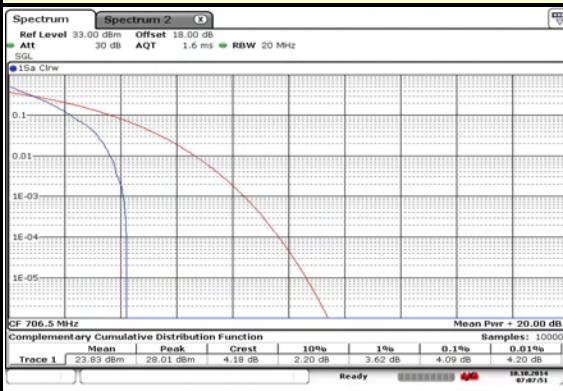
LTE BAND 17

CHANNEL BANDWIDTH: 5MHz

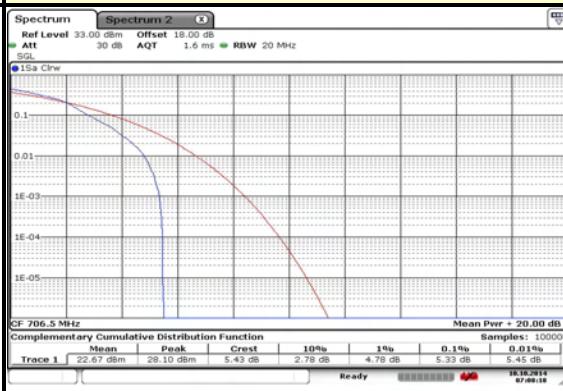
| CHANNEL | Frequency (MHz) | PEAK TO AVERAGE RATIO (dB) | |
|---------|-----------------|----------------------------|-------|
| | | QPSK | 16QAM |
| 23755 | 706.5 | 4.09 | 5.33 |
| 23790 | 710 | 4.55 | 5.59 |
| 23825 | 713.5 | 5.30 | 5.33 |

SPECTRUM PLOT OF WORST VALUE

5MHz / QPSK / CH 23755



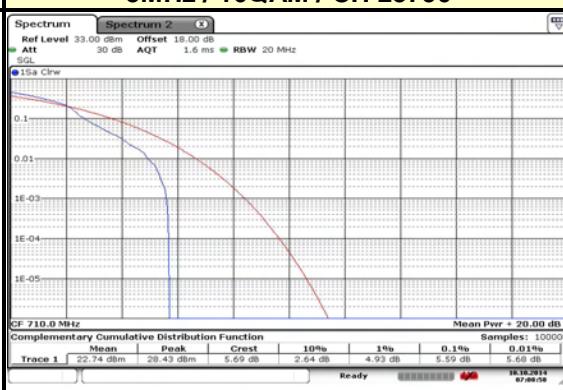
5MHz / 16QAM / CH 23755



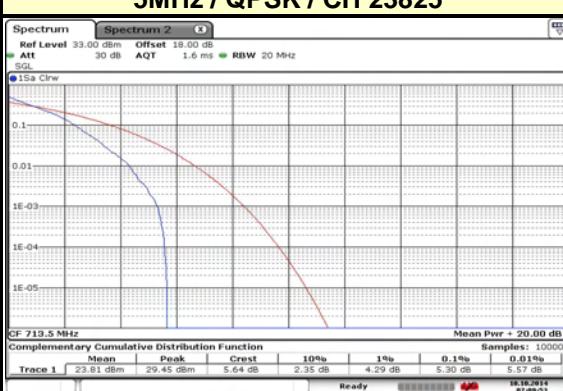
5MHz / QPSK / CH 23790



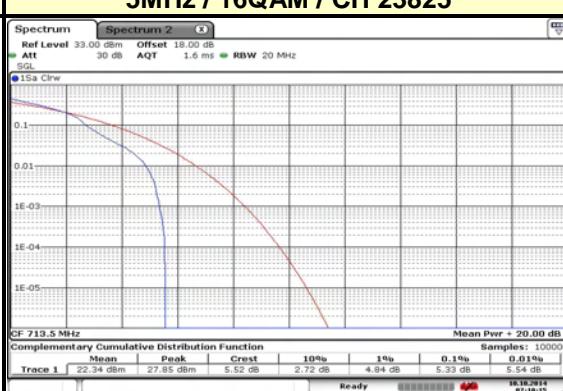
5MHz / 16QAM / CH 23790



5MHz / QPSK / CH 23825



5MHz / 16QAM / CH 23825



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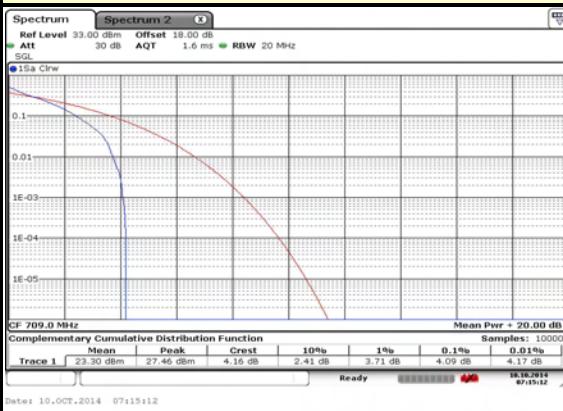
LTE BAND 17

CHANNEL BANDWIDTH: 10MHz

| CHANNEL | Frequency (MHz) | PEAK TO AVERAGE RATIO (dB) | |
|---------|-----------------|----------------------------|-------|
| | | QPSK | 16QAM |
| 23780 | 709 | 4.09 | 5.94 |
| 23790 | 710 | 4.29 | 5.86 |
| 23800 | 711 | 4.38 | 5.97 |

SPECTRUM PLOT OF WORST VALUE

10MHz / QPSK / CH 23780



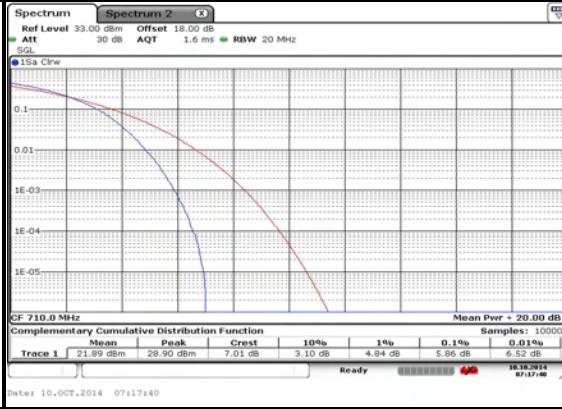
10MHz / 16QAM / CH 23780



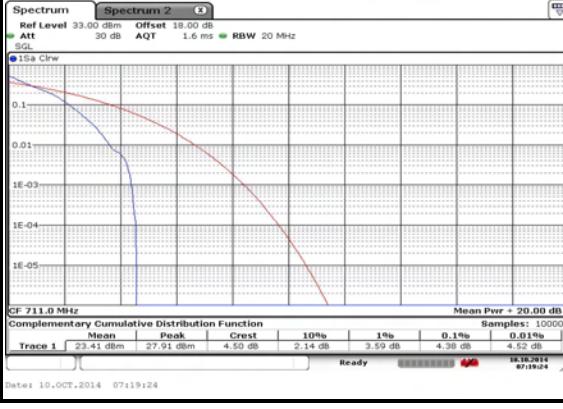
10MHz / QPSK / CH 23790



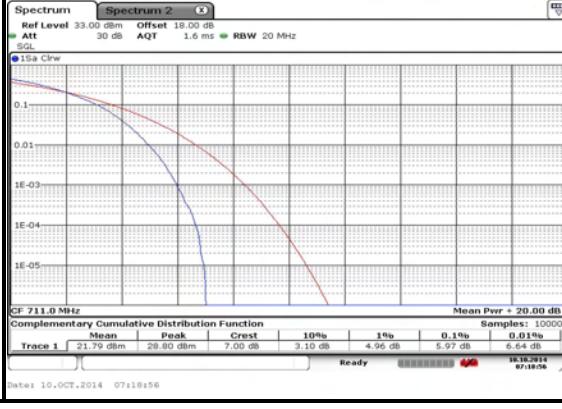
10MHz / 16QAM / CH 23790



10MHz / QPSK / CH 23800



10MHz / 16QAM / CH 23800



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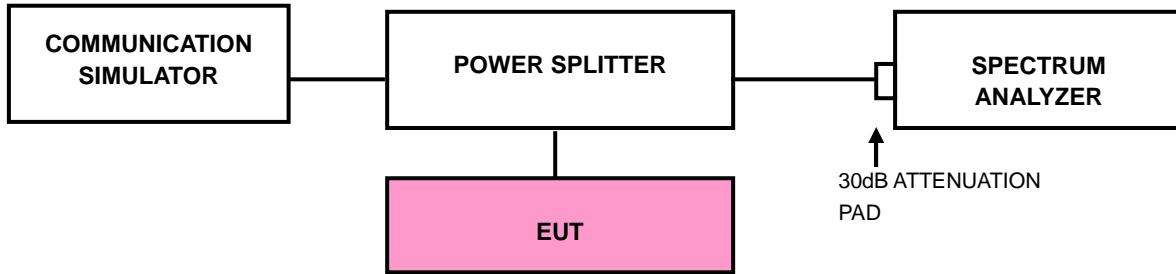
4.5 BAND EDGE MEASUREMENT

4.5.1 LIMITS OF BAND EDGE MEASUREMENT

The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

4.5.2 TEST SETUP



4.5.3 TEST PROCEDURES

- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RB of the spectrum is 20kHz and VB of the spectrum is 100 kHz. (LTE bandwidth 1.4MHz)
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RB of the spectrum is 30kHz and VB of the spectrum is 100kHz. (LTE bandwidth 3MHz)



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- e. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RB of the spectrum is 50kHz and VB of the spectrum is 200kHz. (LTE bandwidth 5MHz)
- f. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz. (LTE bandwidth 10MHz)
- g. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RB of the spectrum is 200kHz and VB of the spectrum is 1MHz. (LTE bandwidth 15MHz)
- h. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RB of the spectrum is 200kHz and VB of the spectrum is 1MHz. (LTE bandwidth 20MHz)
- i. Record the max trace plot into the test report.

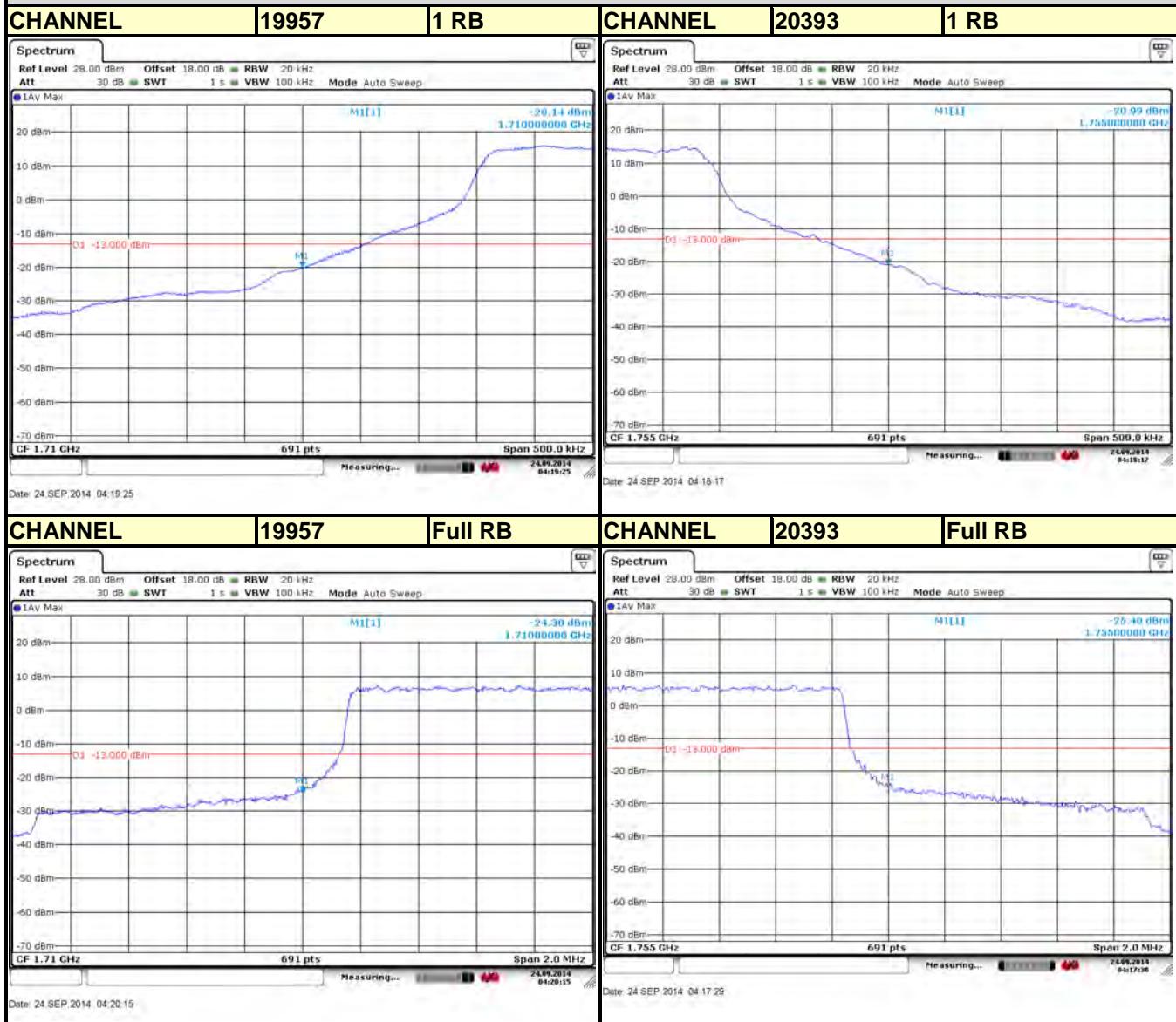


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4.5.4 TEST RESULTS

LTE BAND 4

Channel Bandwidth: 1.4MHz



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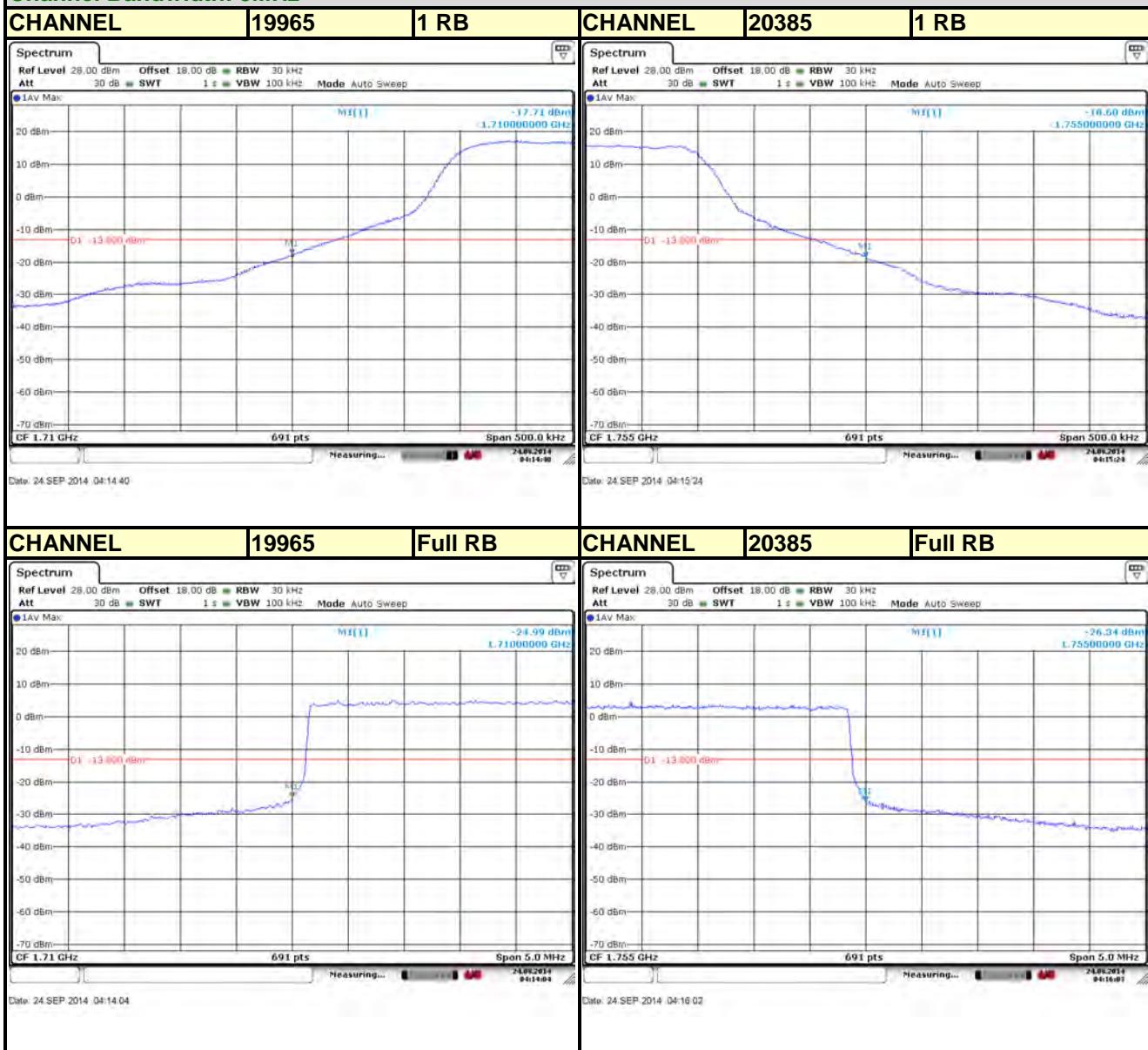
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LTE BAND 4

Channel Bandwidth: 3MHz



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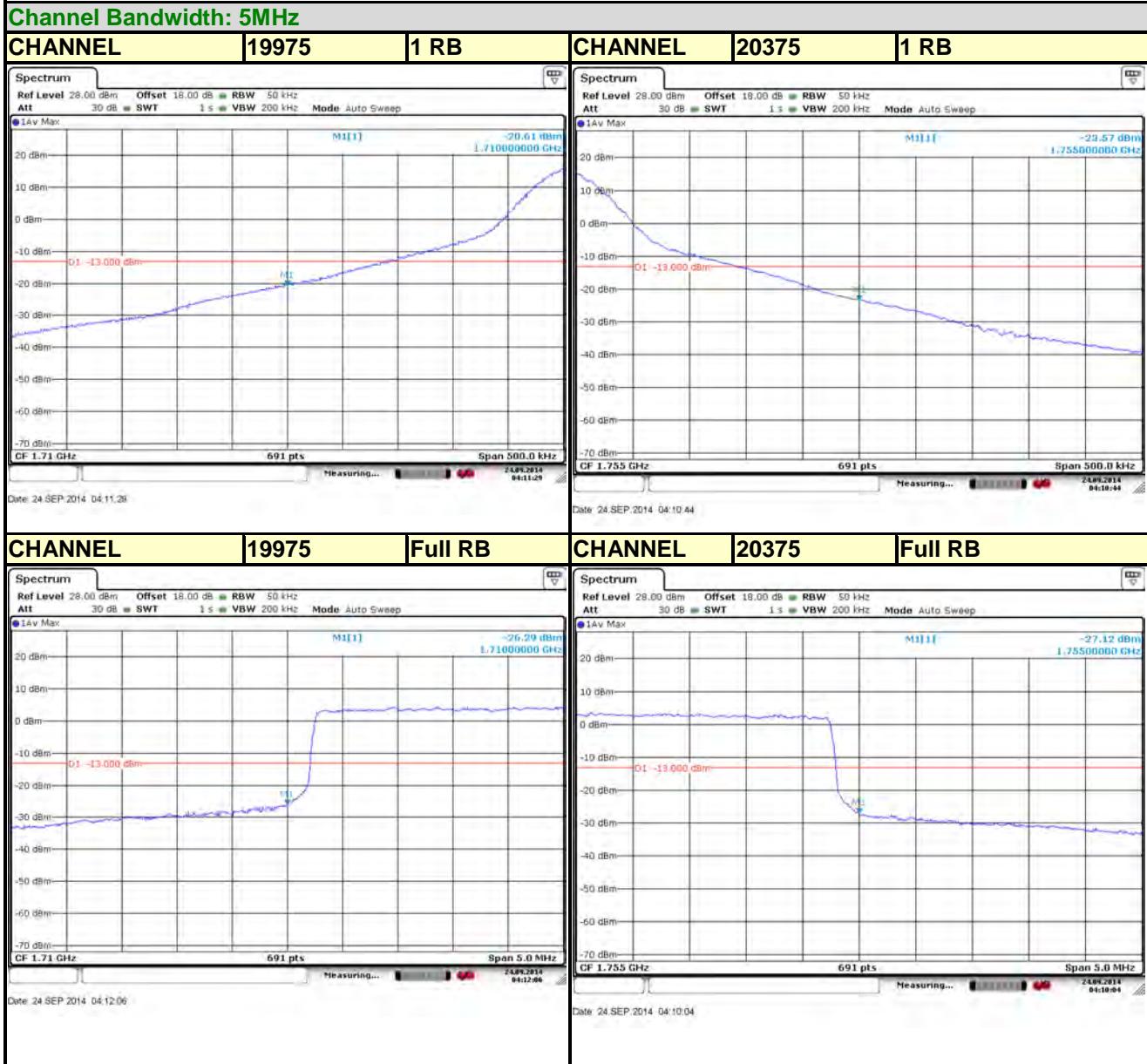
Tel: +86 769 8593 5656
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LTE BAND 4

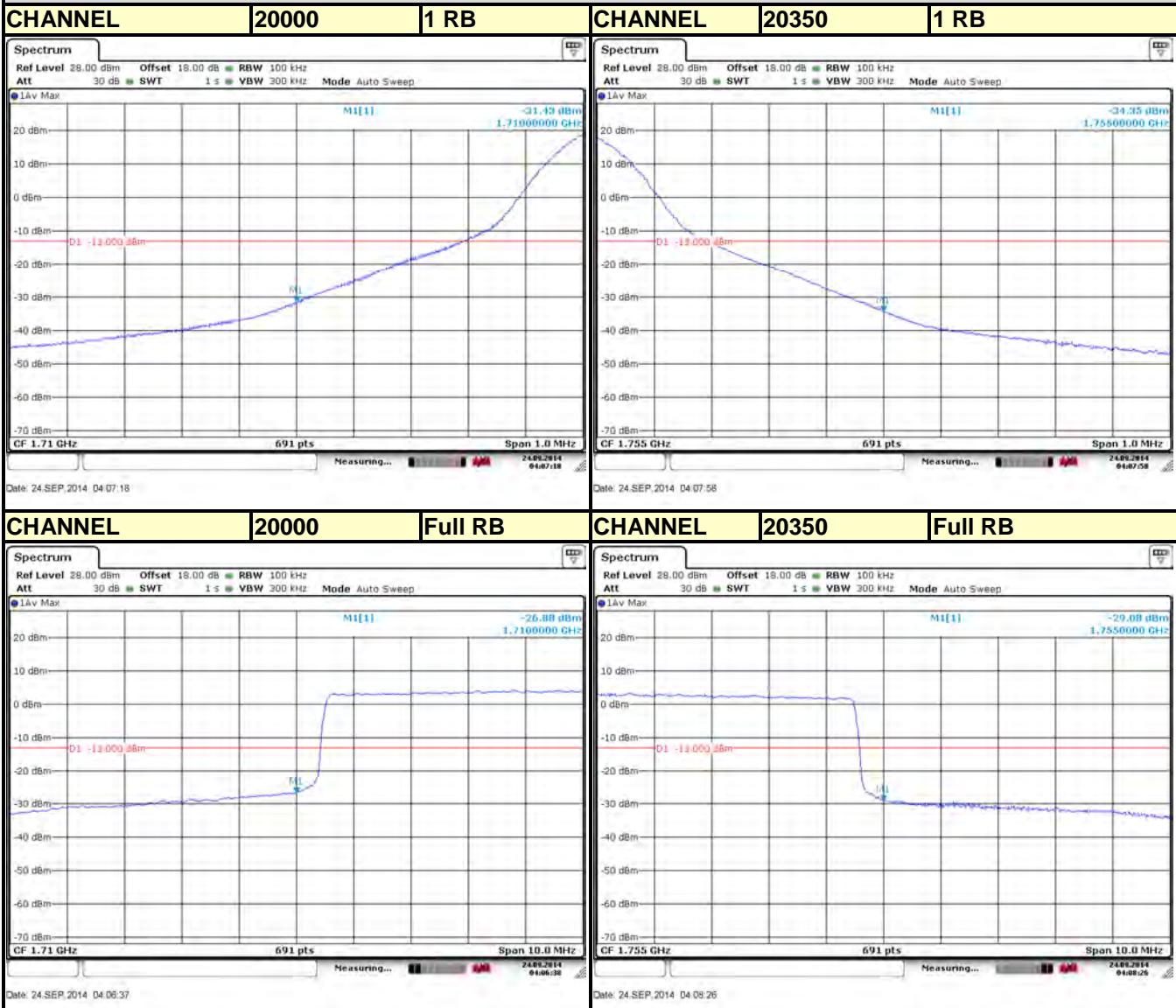




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LTE BAND 4

Channel Bandwidth: 10MHz



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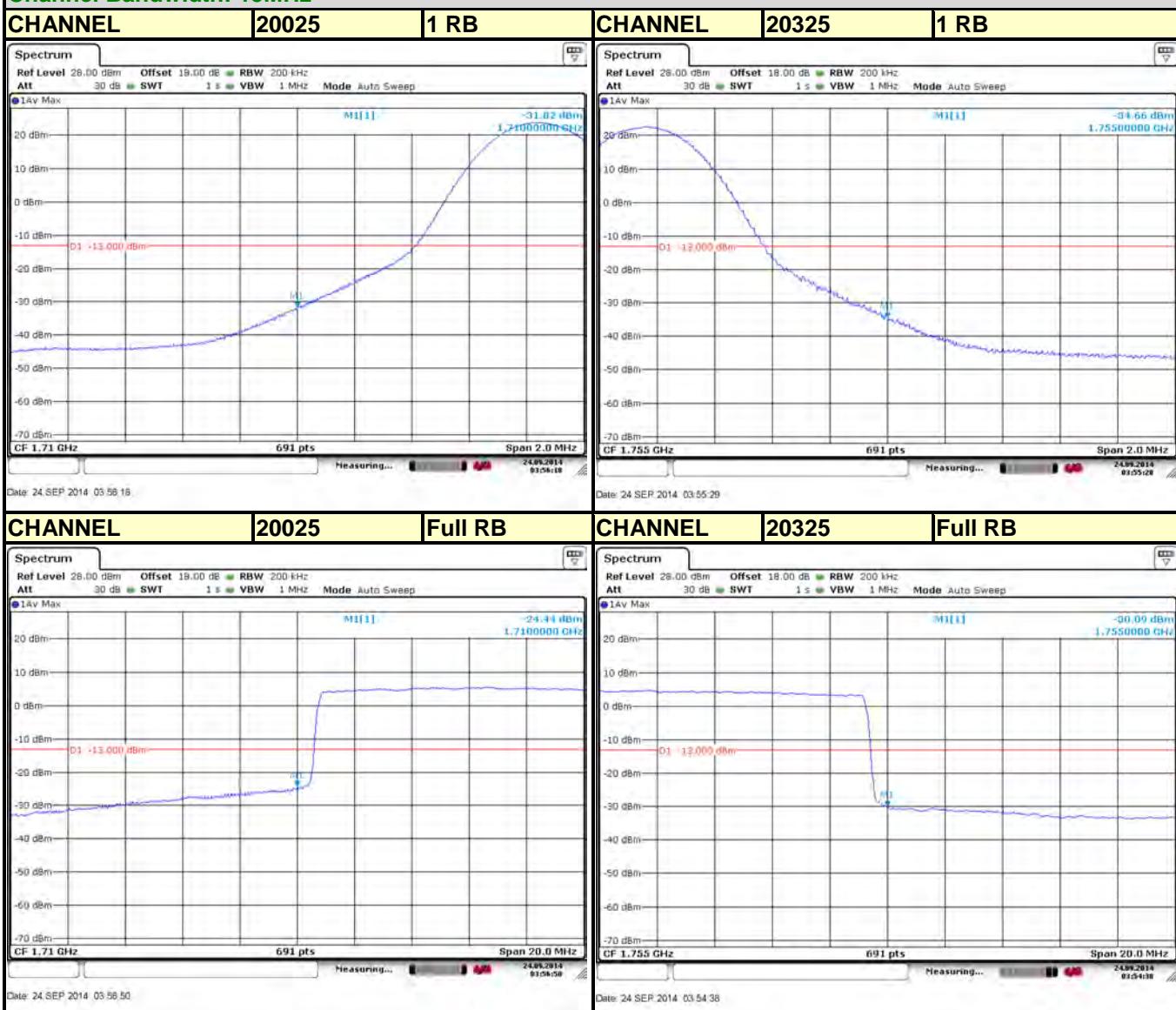
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LTE BAND 4

Channel Bandwidth: 15MHz



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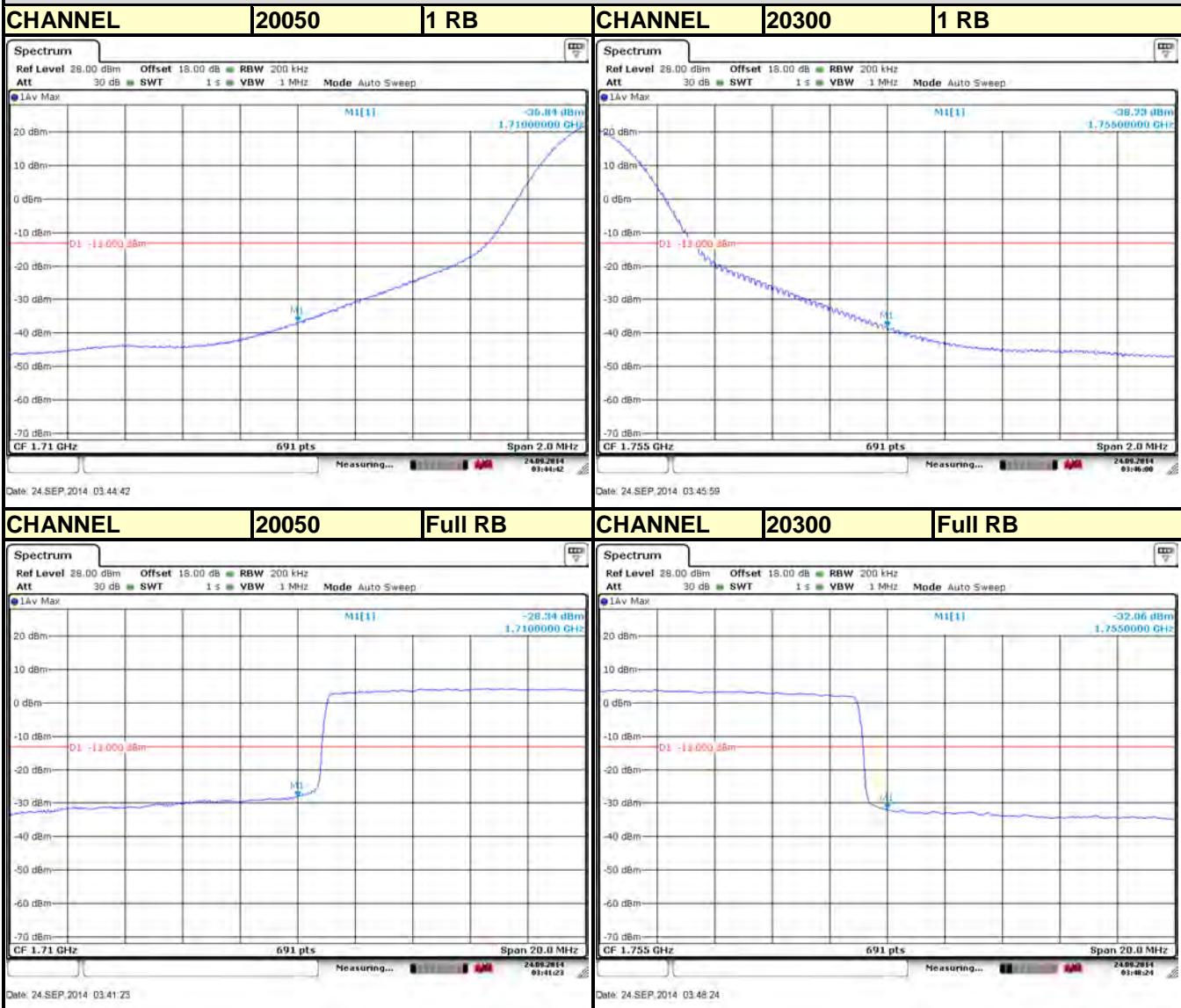
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LTE BAND 4

Channel Bandwidth: 20MHz



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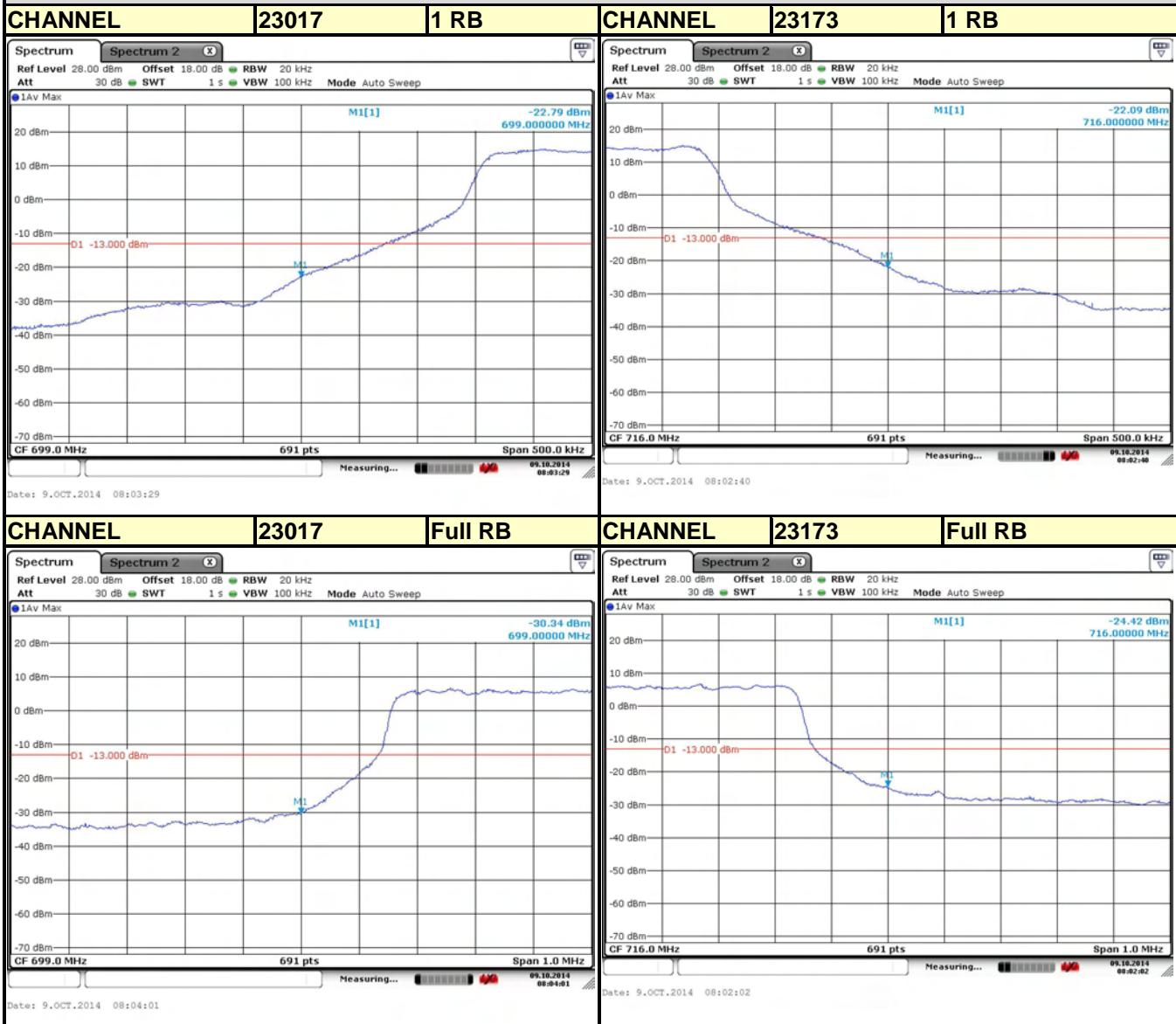
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LTE BAND 12

Channel Bandwidth: 1.4MHz



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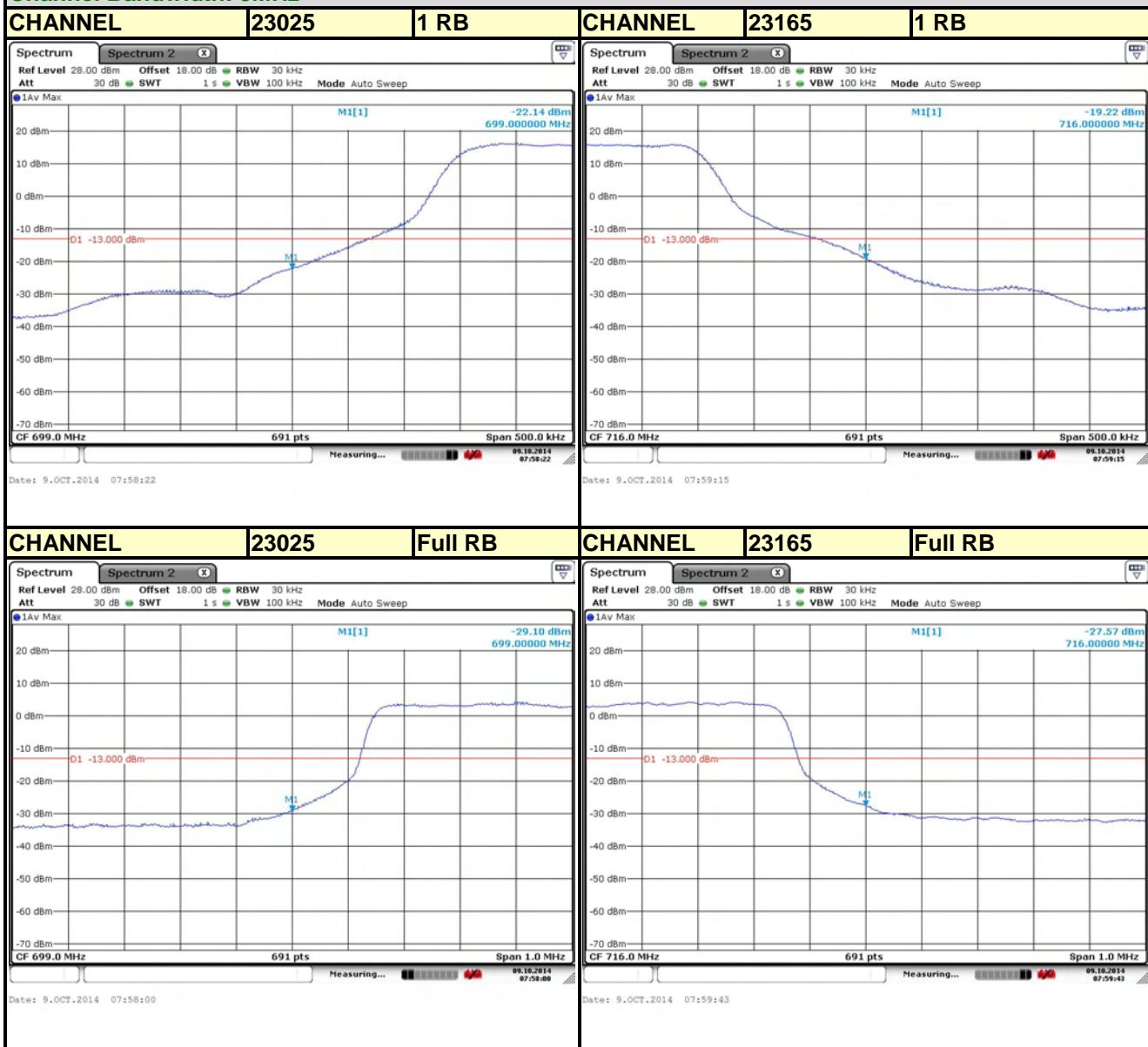
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LTE BAND 12

Channel Bandwidth: 3MHz



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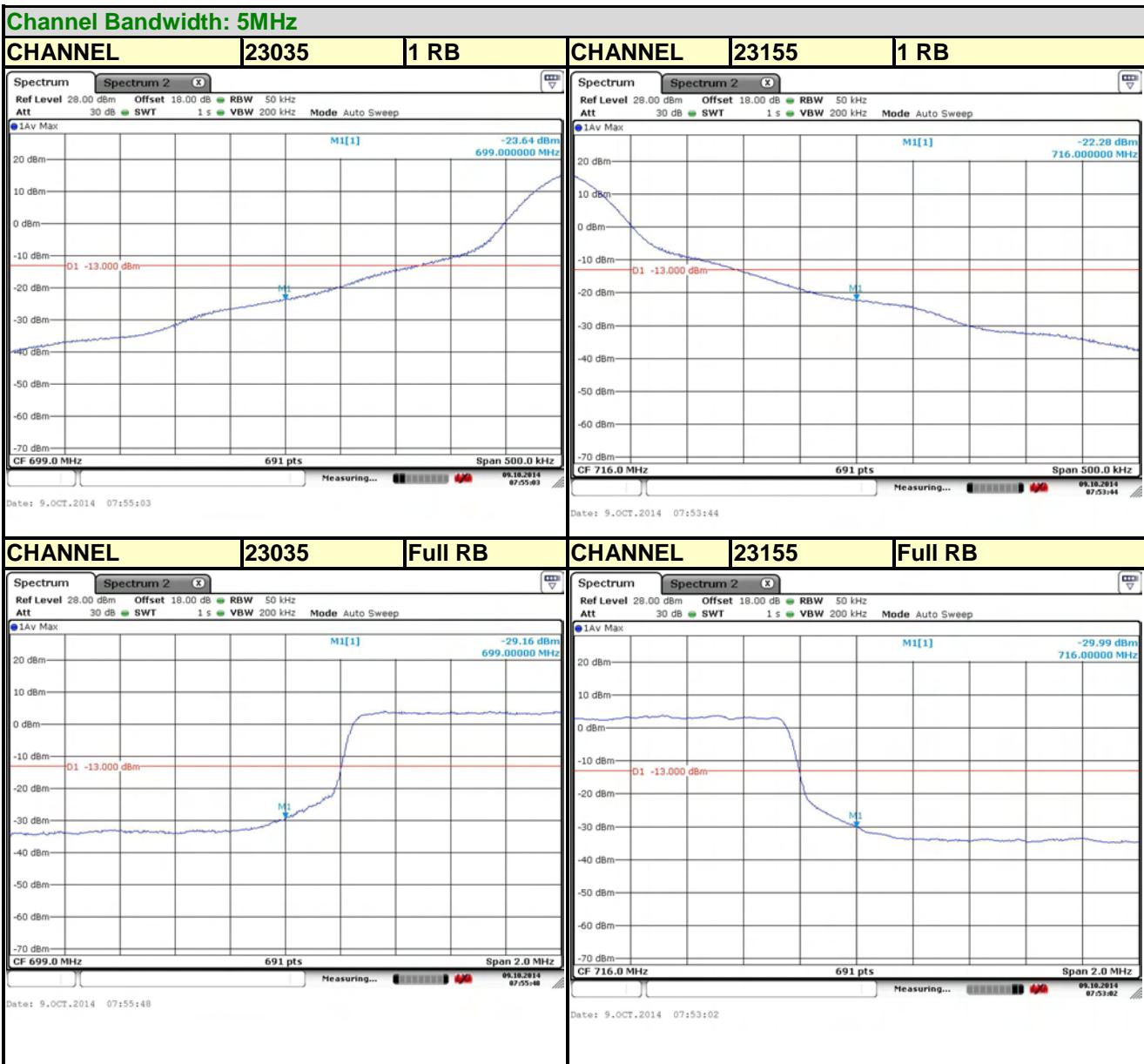
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LTE BAND 12



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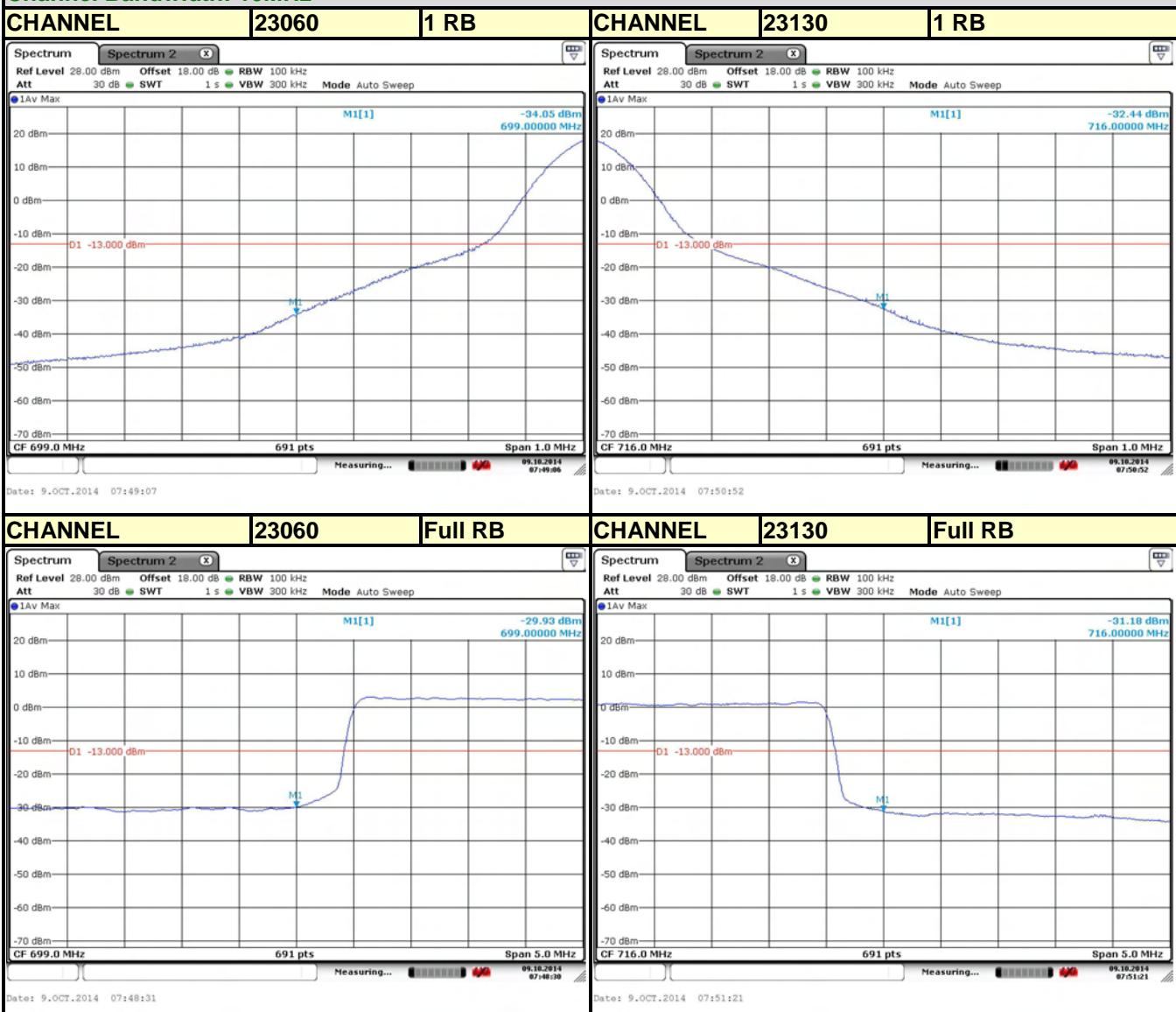
Email: customerservice.dg@cn.bureauveritas.com



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LTE BAND 12

Channel Bandwidth: 10MHz



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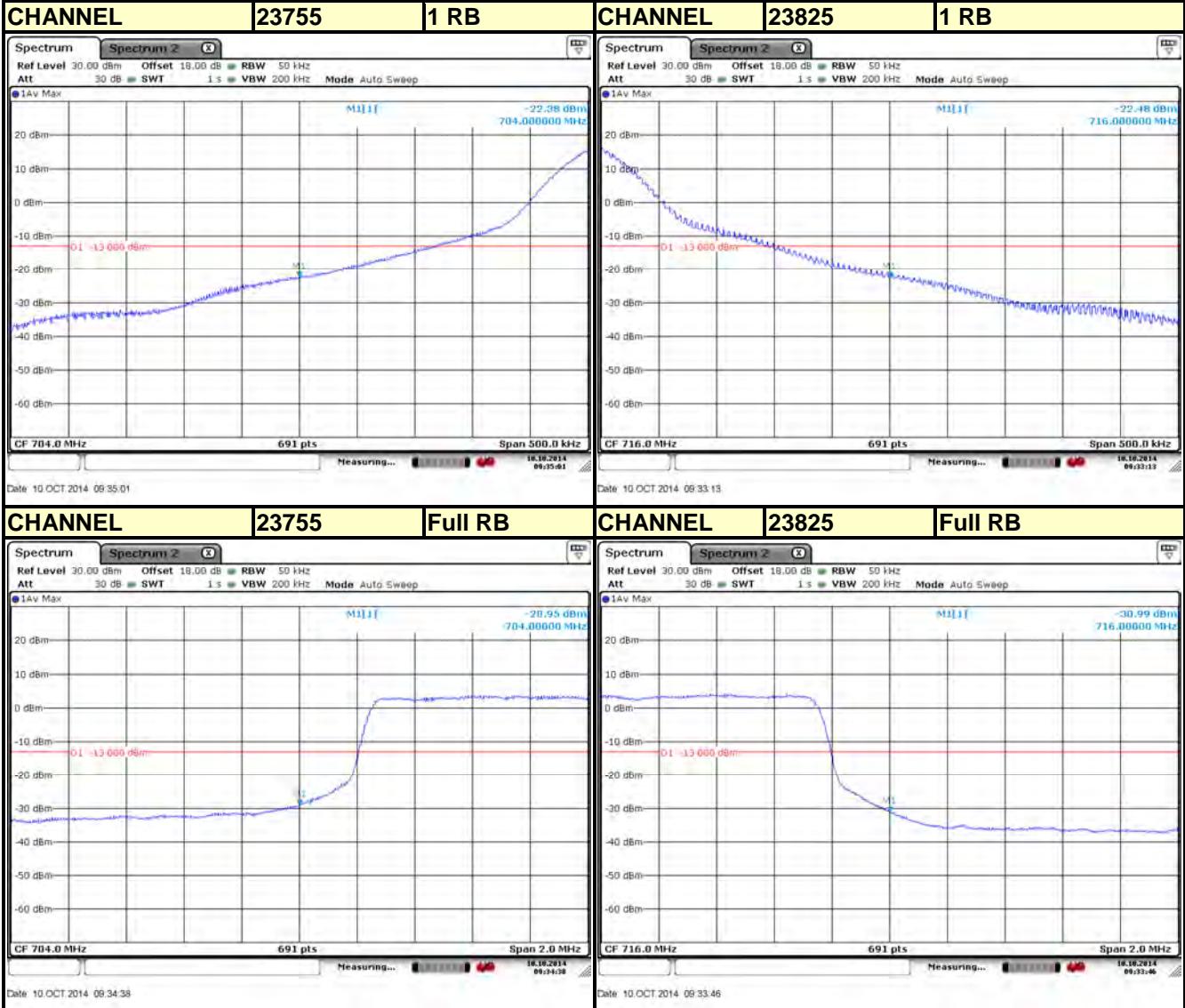


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LTE BAND 17

Channel Bandwidth: 5MHz



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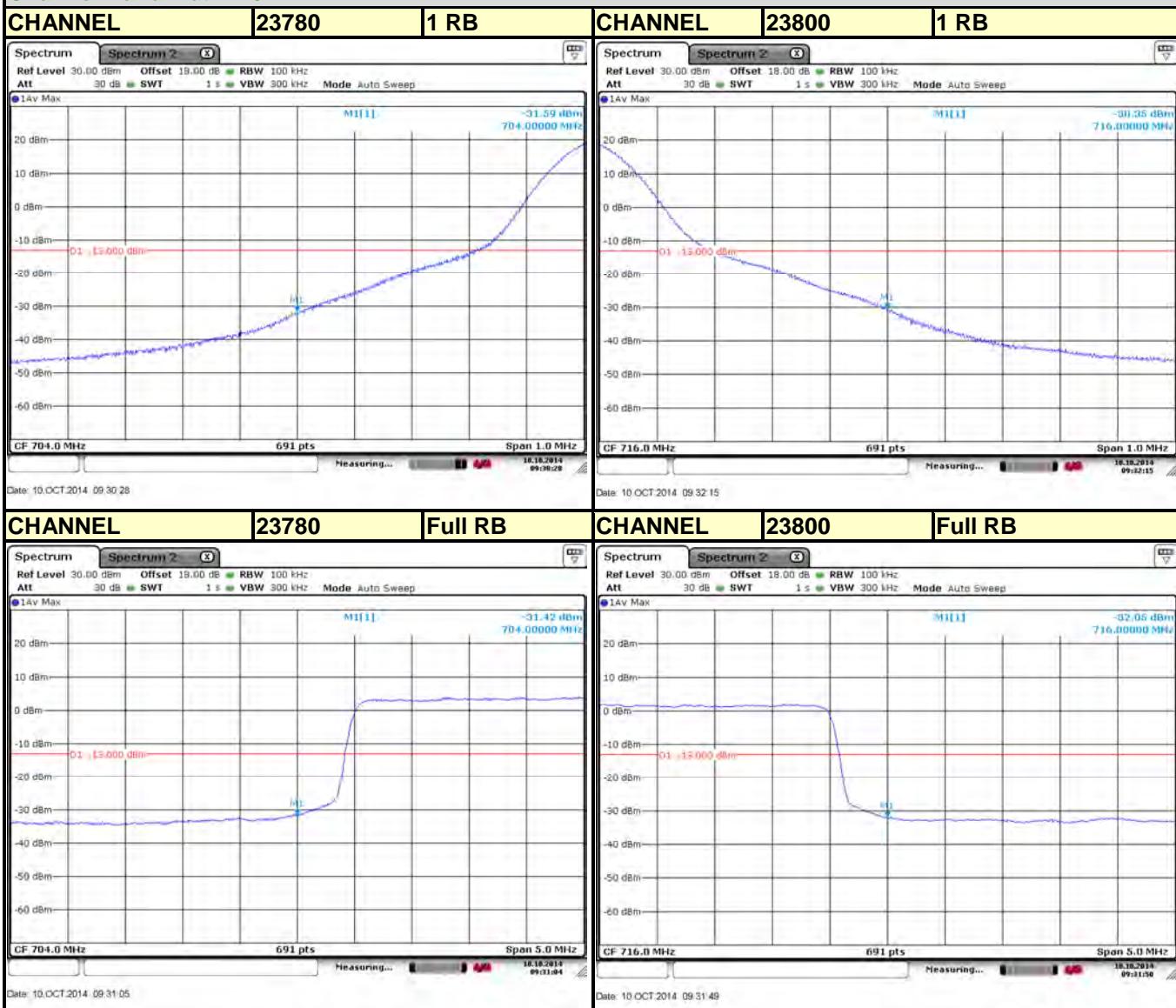
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LTE BAND 17

Channel Bandwidth: 10MHz



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4.6 CONDUCTED SPURIOUS EMISSIONS

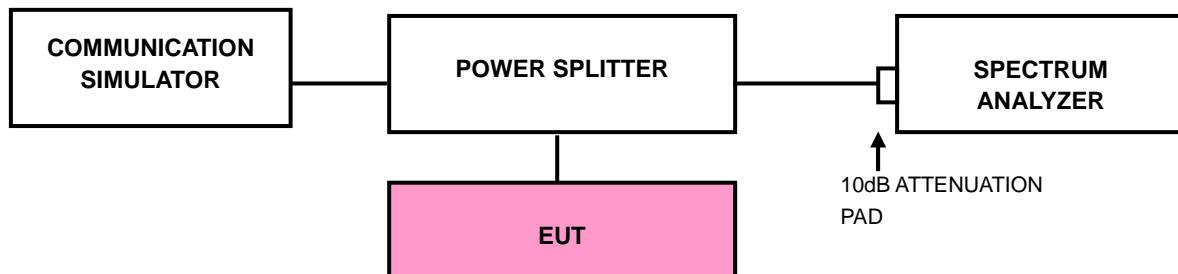
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

4.6.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at middle operational frequency range.
- b. Measuring frequency range is from 30 MHz to 19.1GHz for LTE Band 4 and 30 MHz to 9GHz for LTE Band 12&17. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

4.6.3 TEST SETUP

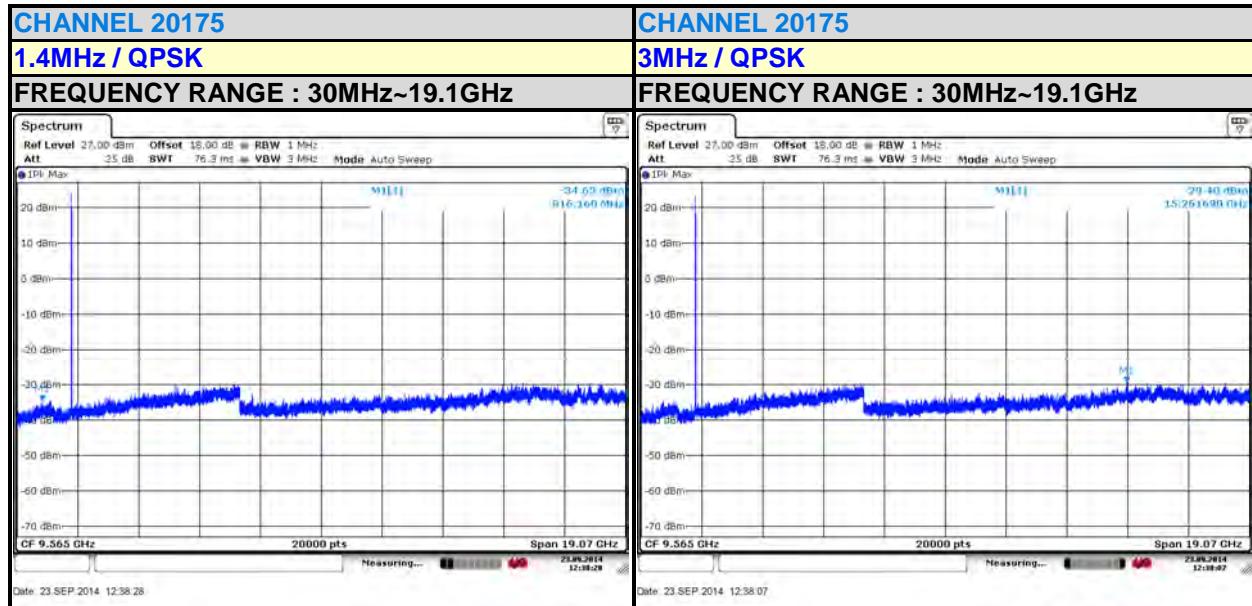




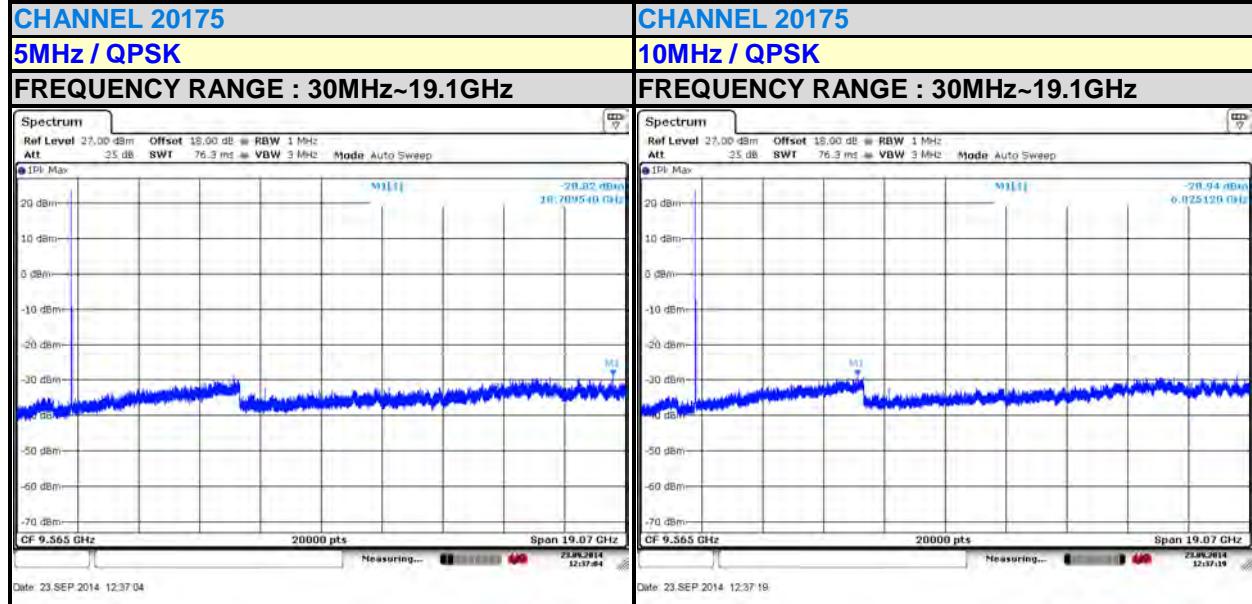
Test Report No.: RF140812N017-1

4.6.4 TEST RESULTS

LTE BAND 4



LTE BAND 4

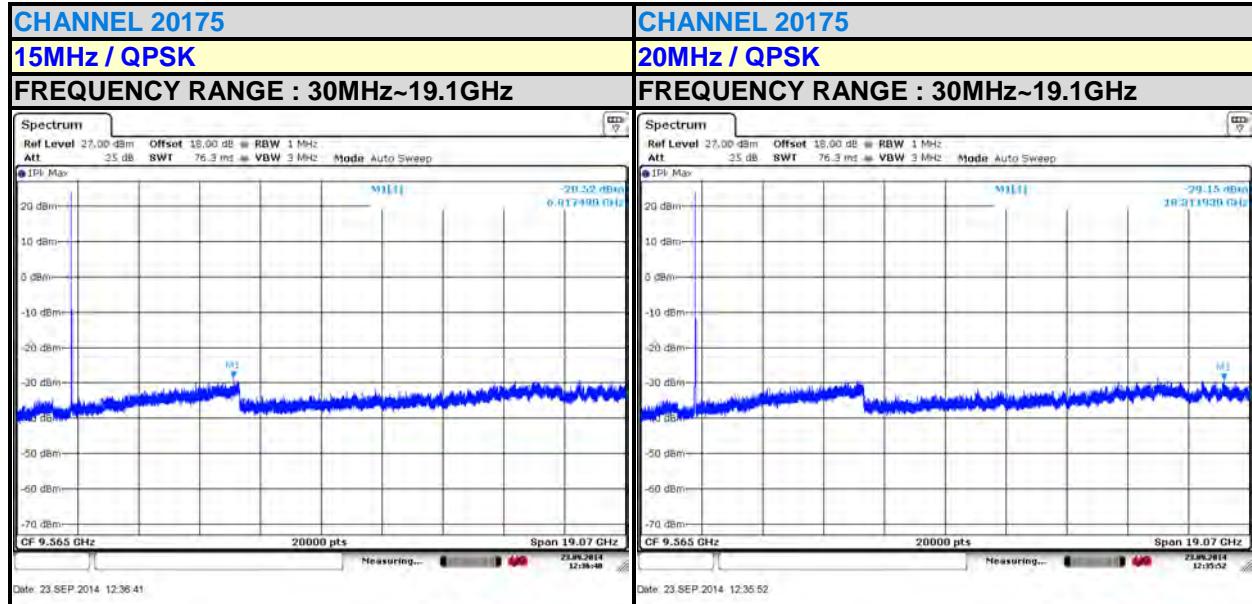




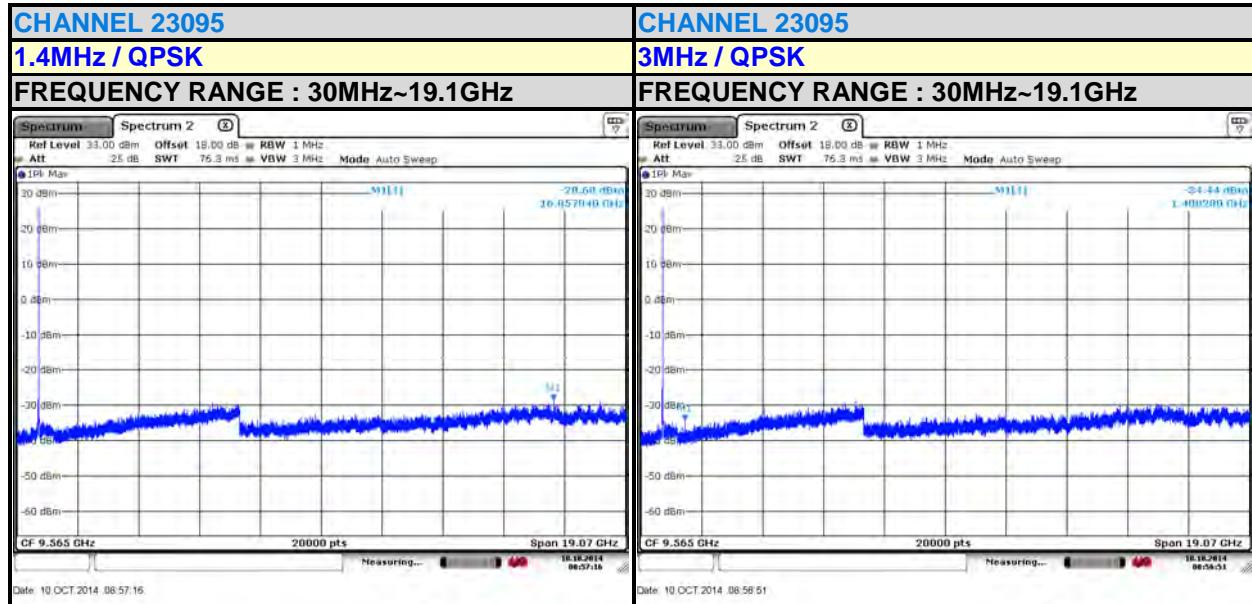
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LTE BAND 4



LTE BAND 12





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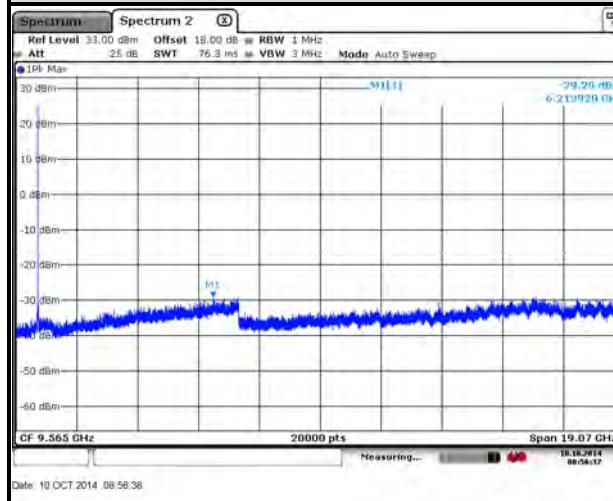
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LTE BAND 12

CHANNEL 23095

5MHz / QPSK

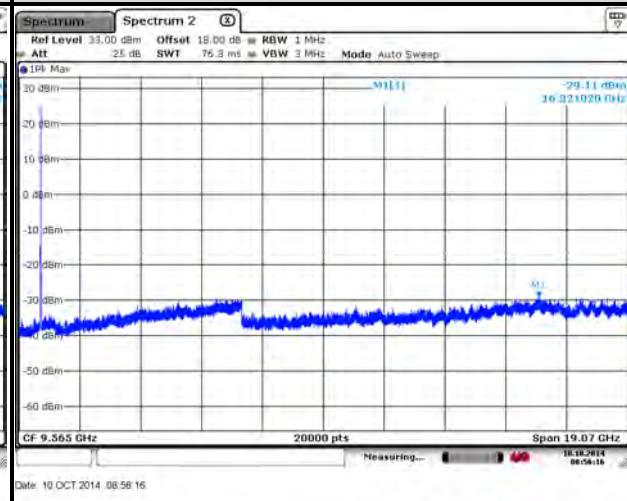
FREQUENCY RANGE : 30MHz~9GHz



CHANNEL 23095

10MHz / QPSK

FREQUENCY RANGE : 30MHz~9GHz

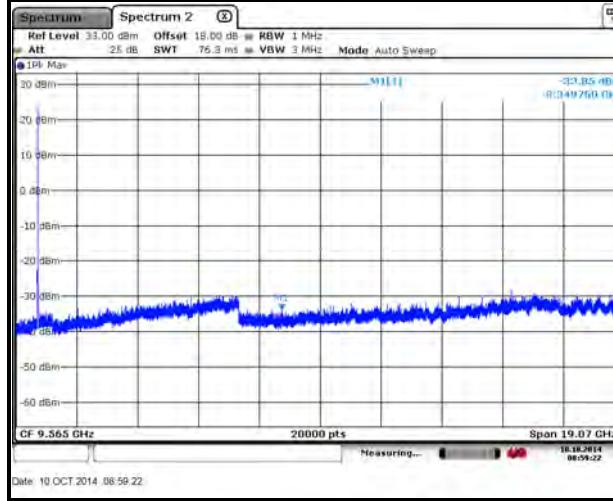


LTE BAND 17

CHANNEL 23790

5MHz / QPSK

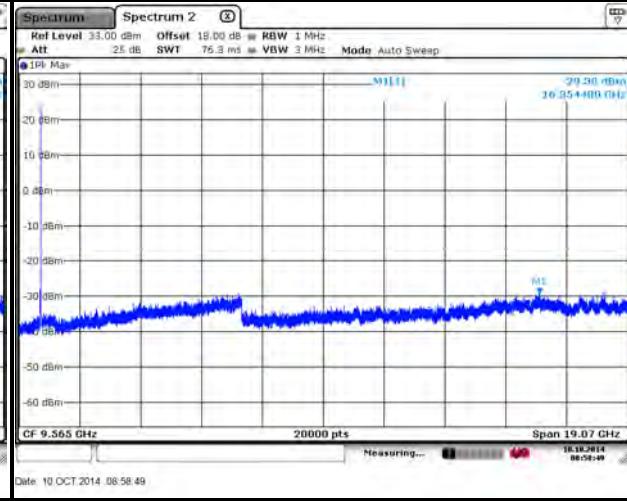
FREQUENCY RANGE : 30MHz~19.1GHz



CHANNEL 23790

10MHz / QPSK

FREQUENCY RANGE : 30MHz~19.1GHz





4.7 RADIATED EMISSION MEASUREMENT

4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

4.7.2 TEST PROCEDURES

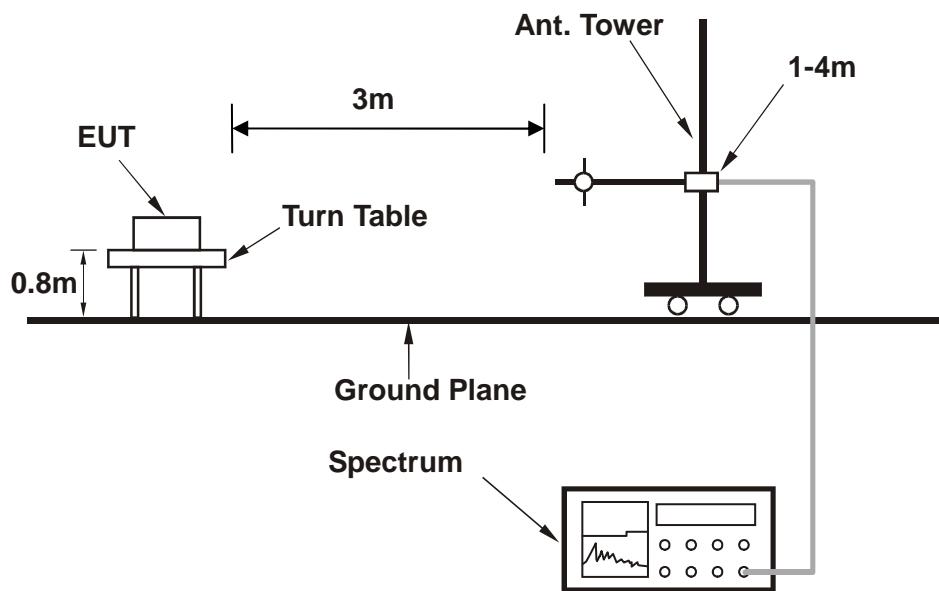
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m 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 = Output power level of S.G - TX cable loss + 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 power = E.I.P.R power - 2.15dBi.

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

4.7.3 DEVIATION FROM TEST STANDARD

No deviation

4.7.4 TEST SETUP



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



Test Report No.: RF140812N017-1

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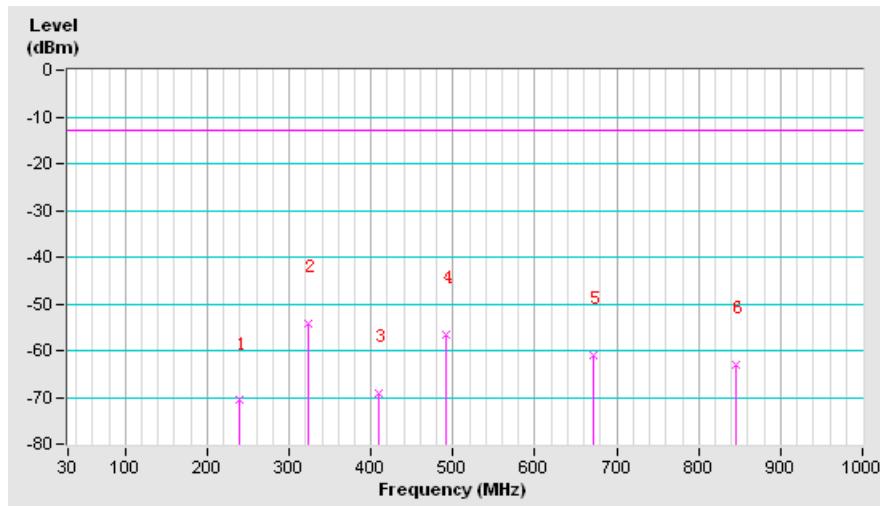
4.7.5 TEST RESULTS

BELOW 1GHz WORST-CASE DATA : LTE BAND 4

| SPURIOUS EMISSION FREQUENCY RANGE | Below 1000MHz | OPERATING CHANNEL | Channel 20175 |
|-----------------------------------|---------------|-------------------|---------------|
|-----------------------------------|---------------|-------------------|---------------|

| SPURIOUS EMISSION LEVEL | | | | |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz) | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 240.20 | H | -70.65 | -13.00 | -57.65 |
| 322.60 | H | -54.14 | -13.00 | -41.14 |
| 409.90 | H | -69.08 | -13.00 | -56.08 |
| 492.40 | H | -56.44 | -13.00 | -43.44 |
| 671.80 | H | -60.88 | -13.00 | -47.88 |
| 844.80 | H | -63.04 | -13.00 | -50.04 |

NOTE: The emission behavior belongs to narrowband spurious emission.





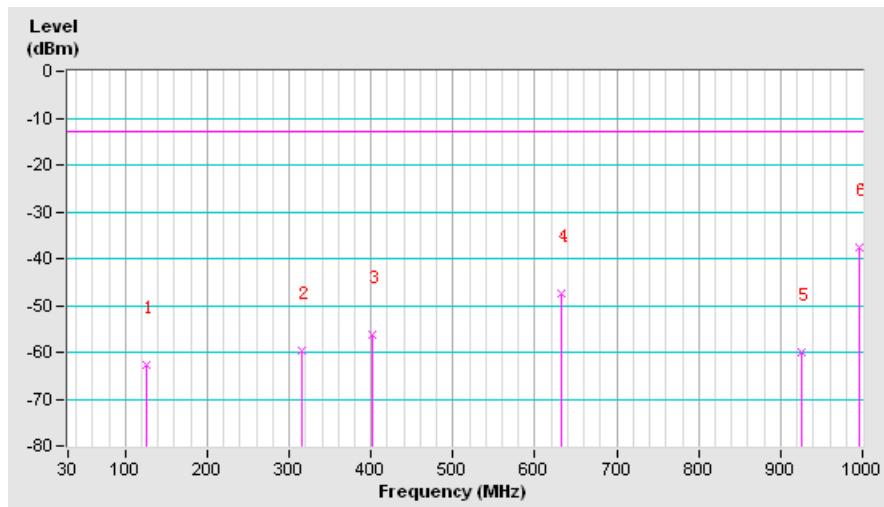
Test Report No.: RF140812N017-1

BUREAU
VERITAS

| | | | |
|--|---------------|--------------------------|---------------|
| SPURIOUS EMISSION FREQUENCY RANGE | Below 1000MHz | OPERATING CHANNEL | Channel 20175 |
|--|---------------|--------------------------|---------------|

| SPURIOUS EMISSION LEVEL | | | | |
|-------------------------|----------------------|---------------|---------------|---------------|
| Frequency (MHz) | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 125.40 | V | -62.59 | -13.00 | -49.59 |
| 316.20 | V | -59.71 | -13.00 | -46.71 |
| 401.80 | V | -56.13 | -13.00 | -43.13 |
| 633.00 | V | -47.34 | -13.00 | -34.34 |
| 925.60 | V | -60.03 | -13.00 | -47.03 |
| 995.20 | V | -37.71 | -13.00 | -24.71 |

NOTE: The emission behavior belongs to narrowband spurious emission.





Test Report No.: RF140812N017-1

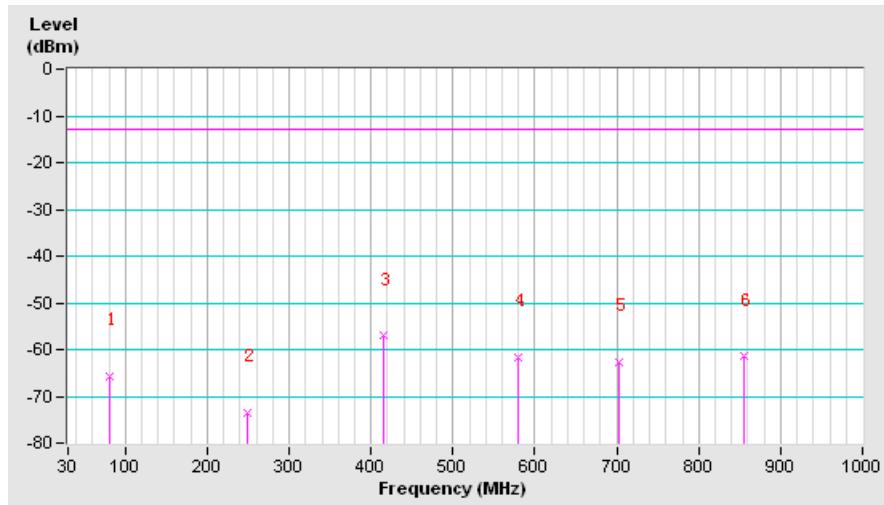
BUREAU
VERITAS

BELOW 1GHz WORST-CASE DATA : LTE BAND 12

| SPURIOUS EMISSION FREQUENCY RANGE | Below 1000MHz | OPERATING CHANNEL | Channel 23095 |
|-----------------------------------|---------------|-------------------|---------------|
|-----------------------------------|---------------|-------------------|---------------|

| SPURIOUS EMISSION LEVEL | | | | |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz) | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 80.10 | H | -65.84 | -13.00 | -52.84 |
| 248.20 | H | -73.60 | -13.00 | -60.60 |
| 414.80 | H | -57.07 | -13.00 | -44.07 |
| 579.70 | H | -61.54 | -13.00 | -48.54 |
| 702.50 | H | -62.67 | -13.00 | -49.67 |
| 856.10 | H | -61.48 | -13.00 | -48.48 |

NOTE: The emission behavior belongs to narrowband spurious emission.





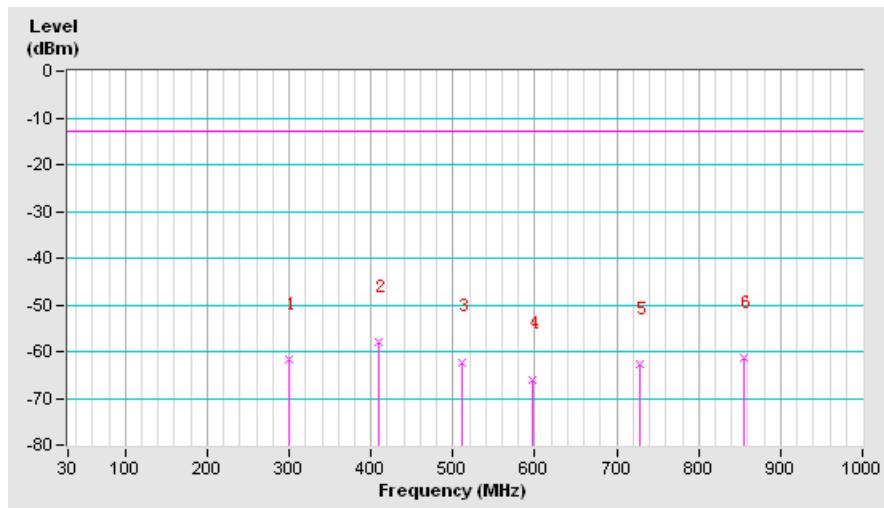
Test Report No.: RF140812N017-1

BUREAU
VERITAS

| | | | |
|-----------------------------------|---------------|-------------------|---------------|
| SPURIOUS EMISSION FREQUENCY RANGE | Below 1000MHz | OPERATING CHANNEL | Channel 23095 |
|-----------------------------------|---------------|-------------------|---------------|

| SPURIOUS EMISSION LEVEL | | | | |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz) | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 300.00 | V | -61.84 | -13.00 | -48.84 |
| 409.90 | V | -58.10 | -13.00 | -45.10 |
| 511.80 | V | -62.40 | -13.00 | -49.40 |
| 597.40 | V | -66.07 | -13.00 | -53.07 |
| 728.40 | V | -62.84 | -13.00 | -49.84 |
| 856.10 | V | -61.48 | -13.00 | -48.48 |

NOTE: The emission behavior belongs to narrowband spurious emission.





Test Report No.: RF140812N017-1

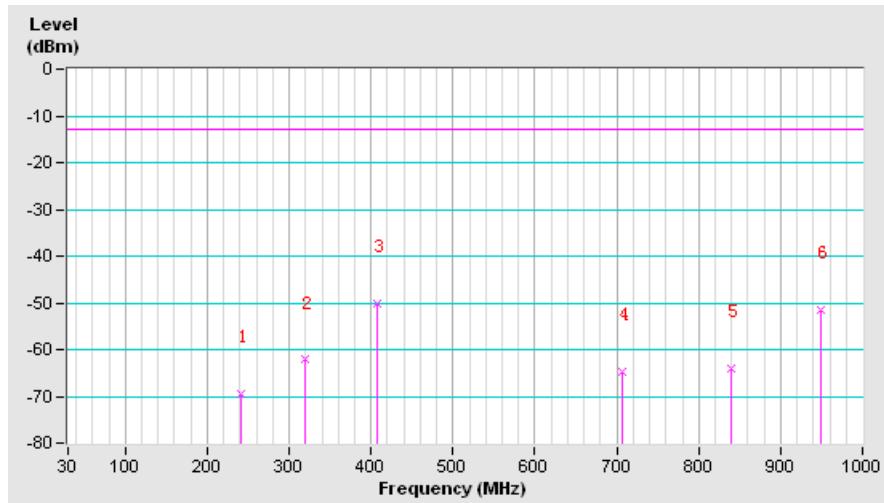
BUREAU
VERITAS

BELOW 1GHz WORST-CASE DATA : LTE BAND 17

| SPURIOUS EMISSION FREQUENCY RANGE | Below 1000MHz | OPERATING CHANNEL | Channel 23790 |
|-----------------------------------|---------------|-------------------|---------------|
|-----------------------------------|---------------|-------------------|---------------|

| SPURIOUS EMISSION LEVEL | | | | |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz) | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 241.80 | H | -69.54 | -13.00 | -56.54 |
| 319.40 | H | -62.14 | -13.00 | -49.14 |
| 406.70 | H | -50.12 | -13.00 | -37.12 |
| 707.40 | H | -64.76 | -13.00 | -51.76 |
| 840.00 | H | -64.08 | -13.00 | -51.08 |
| 949.90 | H | -51.36 | -13.00 | -38.36 |

NOTE: The emission behavior belongs to narrowband spurious emission.



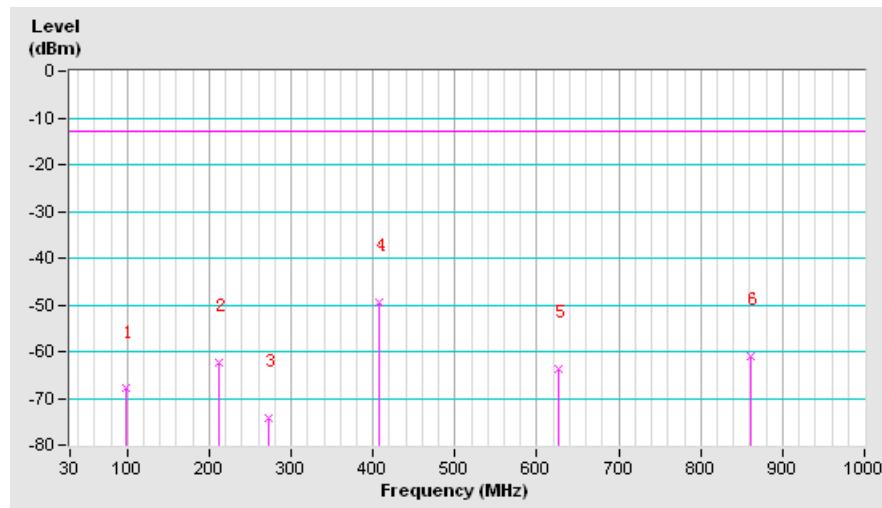


Test Report No.: RF140812N017-1

| | | | |
|-----------------------------------|---------------|-------------------|---------------|
| SPURIOUS EMISSION FREQUENCY RANGE | Below 1000MHz | OPERATING CHANNEL | Channel 23790 |
|-----------------------------------|---------------|-------------------|---------------|

| SPURIOUS EMISSION LEVEL | | | | |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz) | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 97.90 | V | -67.90 | -13.00 | -54.90 |
| 212.70 | V | -62.33 | -13.00 | -49.33 |
| 272.50 | V | -74.09 | -13.00 | -61.09 |
| 406.70 | V | -49.32 | -13.00 | -36.32 |
| 626.60 | V | -63.56 | -13.00 | -50.56 |
| 861.00 | V | -60.89 | -13.00 | -47.89 |

NOTE: The emission behavior belongs to narrowband spurious emission.





Test Report No.: RF140812N017-1

ABOVE 1GHz

LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz / QPSK

| | | | |
|--------------------------|------------------|-----------------|--------------------|
| MODE | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 24deg. C, 60%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Blue Zheng | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | |
|---|-------------|---------------|-------------|-----------------------|------------------------|------------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Margin (dB) |
| 1 | 3465 | -68.02 | -13 | -55.59 | 2.79 | -52.80 | -39.80 |
| 2 | 5197.5 | -67.42 | -13 | -47.97 | 2.92 | -45.05 | -32.05 |
| 3 | 6930 | -68.33 | -13 | -46.56 | 3.17 | -43.39 | -30.39 |
| 4 | 8662.5 | -67.42 | -13 | -48.10 | 3.19 | -44.91 | -31.91 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | |
|---|-------------|---------------|-------------|-----------------------|------------------------|------------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Margin (dB) |
| 1 | 3465 | -67.44 | -13 | -54.18 | 2.79 | -51.39 | -38.39 |
| 2 | 5197.5 | -68.23 | -13 | -49.20 | 2.92 | -46.28 | -33.28 |
| 3 | 6930 | -66.95 | -13 | -46.02 | 3.17 | -42.85 | -29.85 |
| 4 | 8662.5 | -66.78 | -13 | -47.86 | 3.19 | -44.67 | -31.67 |

NOTE: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).



Test Report No.: RF140812N017-1

BUREAU
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CHANNEL BANDWIDTH: 3MHz / QPSK

| | | | |
|--------------------------|------------------|-----------------|--------------------|
| MODE | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 24deg. C, 60%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Blue Zheng | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | |
|---|-------------|---------------|-------------|-----------------------|------------------------|------------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Margin (dB) |
| 1 | 3465 | -67.56 | -13 | -55.13 | 2.79 | -52.34 | -39.34 |
| 2 | 5197.5 | -66.21 | -13 | -46.75 | 2.92 | -43.83 | -30.83 |
| 3 | 6930 | -68.02 | -13 | -46.25 | 3.17 | -43.08 | -30.08 |
| 4 | 8662.5 | -67.49 | -13 | -48.17 | 3.19 | -44.98 | -31.98 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | |
|---|-------------|---------------|-------------|-----------------------|------------------------|------------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Margin (dB) |
| 1 | 3465 | -67.95 | -13 | -54.70 | 2.79 | -51.91 | -38.91 |
| 2 | 5197.5 | -68.02 | -13 | -49.00 | 2.92 | -46.08 | -33.08 |
| 3 | 6930 | -67.43 | -13 | -46.50 | 3.17 | -43.33 | -30.33 |
| 4 | 8662.5 | -65.92 | -13 | -47.00 | 3.19 | -43.81 | -30.81 |

NOTE: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).



Test Report No.: RF140812N017-1

CHANNEL BANDWIDTH: 5MHz / QPSK

| | | | |
|--------------------------|------------------|-----------------|--------------------|
| MODE | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 24deg. C, 60%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Blue Zheng | | |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Margin (dB) |
|-----|-------------|---------------|-------------|-----------------------|------------------------|------------|-------------|
| 1 | 3465 | -67.42 | -13 | -55.00 | 2.79 | -52.21 | -39.21 |
| 2 | 5197.5 | -66.82 | -13 | -47.37 | 2.92 | -44.45 | -31.45 |
| 3 | 6930 | -67.55 | -13 | -45.78 | 3.17 | -42.61 | -29.61 |
| 4 | 8662.5 | -66.87 | -13 | -47.55 | 3.19 | -44.36 | -31.36 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Margin (dB) |
|-----|-------------|---------------|-------------|-----------------------|------------------------|------------|-------------|
| 1 | 3465 | -69.57 | -13 | -56.34 | 2.79 | -53.55 | -40.55 |
| 2 | 5197.5 | -68.25 | -13 | -49.22 | 2.92 | -46.30 | -33.30 |
| 3 | 6930 | -67.42 | -13 | -46.49 | 3.17 | -43.32 | -30.32 |
| 4 | 8662.5 | -65.98 | -13 | -47.06 | 3.19 | -43.87 | -30.87 |

NOTE: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).



Test Report No.: RF140812N017-1

CHANNEL BANDWIDTH: 10MHz / QPSK

| | | | |
|--------------------------|------------------|-----------------|--------------------|
| MODE | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 24deg. C, 60%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Blue Zheng | | |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Margin (dB) |
|-----|-------------|---------------|-------------|-----------------------|------------------------|------------|-------------|
| 1 | 3465 | -67.52 | -13 | -55.09 | 2.79 | -52.30 | -39.30 |
| 2 | 5197.5 | -66.28 | -13 | -46.82 | 2.92 | -43.90 | -30.90 |
| 3 | 6930 | -67.46 | -13 | -45.69 | 3.17 | -42.52 | -29.52 |
| 4 | 8662.5 | -67.43 | -13 | -48.11 | 3.19 | -44.92 | -31.92 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Margin (dB) |
|-----|-------------|---------------|-------------|-----------------------|------------------------|------------|-------------|
| 1 | 3465 | -68.74 | -13 | -55.50 | 2.79 | -52.71 | -39.71 |
| 2 | 5197.5 | -69.35 | -13 | -50.31 | 2.92 | -47.39 | -34.39 |
| 3 | 6930 | -68.41 | -13 | -47.48 | 3.17 | -44.31 | -31.31 |
| 4 | 8662.5 | -65.22 | -13 | -46.30 | 3.19 | -43.11 | -30.11 |

NOTE: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).



Test Report No.: RF140812N017-1

CHANNEL BANDWIDTH: 15MHz / QPSK

| | | | |
|--------------------------|------------------|-----------------|--------------------|
| MODE | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 24deg. C, 60%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Blue Zheng | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | |
|---|-------------|---------------|-------------|-----------------------|------------------------|------------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Margin (dB) |
| 1 | 3465 | -67.25 | -13 | -54.83 | 2.79 | -52.04 | -39.04 |
| 2 | 5197.5 | -68.26 | -13 | -48.81 | 2.92 | -45.89 | -32.89 |
| 3 | 6930 | -67.25 | -13 | -45.48 | 3.17 | -42.31 | -29.31 |
| 4 | 8662.5 | -67.63 | -13 | -48.31 | 3.19 | -45.12 | -32.12 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | |
|---|-------------|---------------|-------------|-----------------------|------------------------|------------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Margin (dB) |
| 1 | 3465 | -68.12 | -13 | -54.87 | 2.79 | -52.08 | -39.08 |
| 2 | 5197.5 | -68.33 | -13 | -49.30 | 2.92 | -46.38 | -33.38 |
| 3 | 6930 | -67.14 | -13 | -46.21 | 3.17 | -43.04 | -30.04 |
| 4 | 8662.5 | -67.12 | -13 | -48.20 | 3.19 | -45.01 | -32.01 |

NOTE: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).



Test Report No.: RF140812N017-1

CHANNEL BANDWIDTH: 20MHz / QPSK

| | | | |
|--------------------------|------------------|-----------------|--------------------|
| MODE | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 24deg. C, 60%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Blue Zheng | | |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Margin (dB) |
|-----|-------------|---------------|-------------|-----------------------|------------------------|------------|-------------|
| 1 | 3465 | -68.47 | -13 | -56.04 | 2.79 | -53.25 | -40.25 |
| 2 | 5197.5 | -68.25 | -13 | -48.80 | 2.92 | -45.88 | -32.88 |
| 3 | 6930 | -68.48 | -13 | -46.71 | 3.17 | -43.54 | -30.54 |
| 4 | 8662.5 | -68.36 | -13 | -49.05 | 3.19 | -45.86 | -32.86 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Margin (dB) |
|-----|-------------|---------------|-------------|-----------------------|------------------------|------------|-------------|
| 1 | 3465 | -68.26 | -13 | -55.01 | 2.79 | -52.22 | -39.22 |
| 2 | 5197.5 | -68.57 | -13 | -49.54 | 2.92 | -46.62 | -33.62 |
| 3 | 6930 | -69.58 | -13 | -48.64 | 3.17 | -45.47 | -32.47 |
| 4 | 8662.5 | -69.46 | -13 | -50.55 | 3.19 | -47.36 | -34.36 |

NOTE: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).



Test Report No.: RF140812N017-1

LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz / QPSK

| | | | |
|--------------------------|------------------|-----------------|--------------------|
| MODE | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 24deg. C, 60%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Blue Zheng | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | |
|---|-------------|---------------|-------------|-----------------------|------------------------|-----------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Margin (dB) |
| 1 | 1415 | -68.52 | -13 | -63.88 | 2.63 | -63.40 | -50.40 |
| 2 | 2122.5 | -67.43 | -13 | -58.71 | 1.31 | -59.55 | -46.55 |
| 3 | 2830 | -67.91 | -13 | -57.24 | 2.45 | -56.94 | -43.94 |
| 4 | 3537.5 | -66.22 | -13 | -53.71 | 2.81 | -53.05 | -40.05 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | |
|---|-------------|---------------|-------------|-----------------------|------------------------|-----------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Margin (dB) |
| 1 | 1415 | -68.16 | -13 | -59.57 | 2.63 | -59.09 | -46.09 |
| 2 | 2122.5 | -68.52 | -13 | -56.16 | 1.31 | -57.00 | -44.00 |
| 3 | 2830 | -67.12 | -13 | -55.55 | 2.45 | -55.25 | -42.25 |
| 4 | 3537.5 | -66.99 | -13 | -54.22 | 2.81 | -53.56 | -40.56 |

REMARKS:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB) - 2.15 (dB)



Test Report No.: RF140812N017-1

BUREAU
VERITAS

CHANNEL BANDWIDTH: 3MHz / QPSK

| | | | |
|--------------------------|------------------|-----------------|--------------------|
| MODE | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 24deg. C, 60%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Blue Zheng | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | |
|---|-------------|---------------|-------------|-----------------------|------------------------|-----------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Margin (dB) |
| 1 | 1415 | -68.41 | -13 | -63.77 | 2.63 | -63.29 | -50.29 |
| 2 | 2122.5 | -67.63 | -13 | -58.91 | 1.31 | -59.75 | -46.75 |
| 3 | 2830 | -67.33 | -13 | -56.66 | 2.45 | -56.36 | -43.36 |
| 4 | 3537.5 | -66.94 | -13 | -54.43 | 2.81 | -53.77 | -40.77 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | |
|---|-------------|---------------|-------------|-----------------------|------------------------|-----------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Margin (dB) |
| 1 | 1415 | -68.22 | -13 | -59.63 | 2.63 | -59.15 | -46.15 |
| 2 | 2122.5 | -69.64 | -13 | -57.27 | 1.31 | -58.11 | -45.11 |
| 3 | 2830 | -67.44 | -13 | -55.88 | 2.45 | -55.58 | -42.58 |
| 4 | 3537.5 | -65.92 | -13 | -53.15 | 2.81 | -52.49 | -39.49 |

REMARKS:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB) - 2.15 (dB)



Test Report No.: RF140812N017-1

CHANNEL BANDWIDTH: 5MHz / QPSK

| | | | |
|---------------------------------|------------------|------------------------|--------------------|
| MODE | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 24deg. C, 60%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Blue Zheng | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | |
|--|-------------|---------------|-------------|-----------------------|------------------------|-----------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Margin (dB) |
| 1 | 1415 | -68.56 | -13 | -63.92 | 2.63 | -63.44 | -50.44 |
| 2 | 2122.5 | -67.46 | -13 | -58.74 | 1.31 | -59.58 | -46.58 |
| 3 | 2830 | -67.96 | -13 | -57.29 | 2.45 | -56.99 | -43.99 |
| 4 | 3537.5 | -65.13 | -13 | -52.61 | 2.81 | -51.95 | -38.95 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | |
|--|-------------|---------------|-------------|-----------------------|------------------------|-----------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Margin (dB) |
| 1 | 1415 | -67.49 | -13 | -58.90 | 2.63 | -58.42 | -45.42 |
| 2 | 2122.5 | -68.53 | -13 | -56.17 | 1.31 | -57.01 | -44.01 |
| 3 | 2830 | -68.99 | -13 | -57.48 | 2.45 | -57.18 | -44.18 |
| 4 | 3537.5 | -66.94 | -13 | -54.17 | 2.81 | -53.51 | -40.51 |

REMARKS:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB) - 2.15 (dB)



Test Report No.: RF140812N017-1

CHANNEL BANDWIDTH: 10MHz / QPSK

| | | | |
|--------------------------|------------------|-----------------|--------------------|
| MODE | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 24deg. C, 60%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Blue Zheng | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | |
|---|-------------|---------------|-------------|-----------------------|------------------------|-----------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Margin (dB) |
| 1 | 1415 | -69.89 | -13 | -65.26 | 2.63 | -64.78 | -51.78 |
| 2 | 2122.5 | -67.52 | -13 | -58.80 | 1.31 | -59.64 | -46.64 |
| 3 | 2830 | -67.96 | -13 | -57.29 | 2.45 | -56.99 | -43.99 |
| 4 | 3537.5 | -65.82 | -13 | -53.31 | 2.81 | -52.65 | -39.65 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | |
|---|-------------|---------------|-------------|-----------------------|------------------------|-----------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Margin (dB) |
| 1 | 1415 | -67.95 | -13 | -59.36 | 2.63 | -58.88 | -45.88 |
| 2 | 2122.5 | -68.33 | -13 | -55.97 | 1.31 | -56.81 | -43.81 |
| 3 | 2830 | -68.02 | -13 | -56.48 | 2.45 | -56.18 | -43.18 |
| 4 | 3537.5 | -66.34 | -13 | -53.57 | 2.81 | -52.91 | -39.91 |

REMARKS:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB) - 2.15 (dB)



Test Report No.: RF140812N017-1

BUREAU
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CHANNEL BANDWIDTH: 5MHz / QPSK

| | | | |
|--------------------------|------------------|-----------------|--------------------|
| MODE | TX channel 23790 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 24deg. C, 60%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Blue Zheng | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | |
|---|-------------|---------------|-------------|-----------------------|------------------------|-----------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Margin (dB) |
| 1 | 1420 | -70.16 | -13 | -64.89 | 0.53 | -64.36 | -51.36 |
| 2 | 2130 | -70.96 | -13 | -62.17 | -0.80 | -62.97 | -49.97 |
| 3 | 2840 | -68.54 | -13 | -57.46 | 0.25 | -57.21 | -44.21 |
| 4 | 3550 | -67.88 | -13 | -55.28 | 0.65 | -54.63 | -41.63 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | |
|---|-------------|---------------|-------------|-----------------------|------------------------|-----------|-------------|
| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Margin (dB) |
| 1 | 1420 | -70.33 | -13 | -62.50 | 0.53 | -61.97 | -48.97 |
| 2 | 2130 | -68.64 | -13 | -55.93 | -0.80 | -56.73 | -43.73 |
| 3 | 2840 | -69.53 | -13 | -55.97 | 0.25 | -55.72 | -42.72 |
| 4 | 3550 | -67.31 | -13 | -54.09 | 0.65 | -53.44 | -40.44 |

REMARKS:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB) - 2.15 (dB)



Test Report No.: RF140812N017-1

CHANNEL BANDWIDTH: 10MHz / QPSK

| | | | |
|--------------------------|------------------|-----------------|--------------------|
| MODE | TX channel 23790 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 24deg. C, 60%RH | INPUT POWER | DC 5V from adapter |
| TESTED BY | Blue Zheng | | |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Margin (dB) |
|-----|-------------|---------------|-------------|-----------------------|------------------------|-----------|-------------|
| 1 | 1420 | -69.95 | -13 | -64.67 | 0.53 | -64.14 | -51.14 |
| 2 | 2130 | -70.14 | -13 | -61.35 | -0.80 | -62.15 | -49.15 |
| 3 | 2840 | -68.35 | -13 | -57.27 | 0.25 | -57.02 | -44.02 |
| 4 | 3550 | -67.66 | -13 | -55.06 | 0.65 | -54.41 | -41.41 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq. (MHz) | Reading (dBm) | Limit (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | ERP (dBm) | Margin (dB) |
|-----|-------------|---------------|-------------|-----------------------|------------------------|-----------|-------------|
| 1 | 1420 | -70.56 | -13 | -62.73 | 0.53 | -62.20 | -49.20 |
| 2 | 2130 | -68.25 | -13 | -55.54 | -0.80 | -56.34 | -43.34 |
| 3 | 2840 | -69.65 | -13 | -56.09 | 0.25 | -55.84 | -42.84 |
| 4 | 3550 | -67.25 | -13 | -54.02 | 0.65 | -53.37 | -40.37 |

REMARKS:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB) - 2.15 (dB)



Test Report No.: RF140812N017-1

5 INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch, were founded in 2002 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:

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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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6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

---END---