



Test Report No.: W7L-240618W001RF07

| LTE B17 10M 64QAM | | | | | | |
|-------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23780 | 709 | 22.23 | -5.6 | 14.48 | 28.05 | 3 |
| 23790 | 710 | 22.2 | -5.6 | 14.45 | 27.86 | 3 |
| 23800 | 711 | 22.22 | -5.6 | 14.47 | 27.99 | 3 |

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

ANT1(DOWN):

| WCDMA IV | | | | | | |
|----------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 1312 | 1712.4 | 23.78 | 1.3 | 25.08 | 322.11 | 1 |
| 1413 | 1732.6 | 24.04 | 1.3 | 25.34 | 341.98 | 1 |
| 1513 | 1752.6 | 23.8 | 1.3 | 25.1 | 323.59 | 1 |

| LTE B7 5M QPSK | | | | | | |
|----------------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 20775 | 2502.5 | 23.91 | -0.6 | 23.31 | 214.29 | 2 |
| 21100 | 2535 | 23.92 | -0.6 | 23.32 | 214.78 | 2 |
| 21425 | 2567.5 | 23.76 | -0.6 | 23.16 | 207.01 | 2 |

| LTE B7 5M 16QAM | | | | | | |
|-----------------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 20775 | 2502.5 | 23.17 | -0.6 | 22.57 | 180.72 | 2 |
| 21100 | 2535 | 23.13 | -0.6 | 22.53 | 179.06 | 2 |
| 21425 | 2567.5 | 22.89 | -0.6 | 22.29 | 169.43 | 2 |

| LTE B7 5M 64QAM | | | | | | |
|-----------------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 20775 | 2502.5 | 22.03 | -0.6 | 21.43 | 139 | 2 |
| 21100 | 2535 | 22.11 | -0.6 | 21.51 | 141.58 | 2 |
| 21425 | 2567.5 | 21.82 | -0.6 | 21.22 | 132.43 | 2 |

| LTE B7 10M QPSK | | | | | | |
|-----------------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 20800 | 2505 | 23.95 | -0.6 | 23.35 | 216.27 | 2 |
| 21100 | 2535 | 23.91 | -0.6 | 23.31 | 214.29 | 2 |
| 21400 | 2565 | 23.71 | -0.6 | 23.11 | 204.64 | 2 |



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| LTE B7 10M 16QAM | | | | | | |
|------------------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 20800 | 2505 | 23.13 | -0.6 | 22.53 | 179.06 | 2 |
| 21100 | 2535 | 23.1 | -0.6 | 22.5 | 177.83 | 2 |
| 21400 | 2565 | 22.81 | -0.6 | 22.21 | 166.34 | 2 |

| LTE B7 10M 64QAM | | | | | | |
|------------------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 20800 | 2505 | 22.03 | -0.6 | 21.43 | 139 | 2 |
| 21100 | 2535 | 22.11 | -0.6 | 21.51 | 141.58 | 2 |
| 21400 | 2565 | 21.88 | -0.6 | 21.28 | 134.28 | 2 |

| LTE B7 15M QPSK | | | | | | |
|-----------------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 20825 | 2507.5 | 23.84 | -0.6 | 23.24 | 210.86 | 2 |
| 21100 | 2535 | 23.98 | -0.6 | 23.38 | 217.77 | 2 |
| 21375 | 2562.5 | 23.66 | -0.6 | 23.06 | 202.3 | 2 |

| LTE B7 15M 16QAM | | | | | | |
|------------------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 20825 | 2507.5 | 23.16 | -0.6 | 22.56 | 180.3 | 2 |
| 21100 | 2535 | 22.99 | -0.6 | 22.39 | 173.38 | 2 |
| 21375 | 2562.5 | 22.85 | -0.6 | 22.25 | 167.88 | 2 |

| LTE B7 15M 64QAM | | | | | | |
|------------------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 20825 | 2507.5 | 22.03 | -0.6 | 21.43 | 139 | 2 |
| 21100 | 2535 | 22.07 | -0.6 | 21.47 | 140.28 | 2 |
| 21375 | 2562.5 | 21.82 | -0.6 | 21.22 | 132.43 | 2 |



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| LTE B7 20M QPSK | | | | | | |
|-----------------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 20850 | 2510 | 23.98 | -0.6 | 23.38 | 217.77 | 2 |
| 21100 | 2535 | 24.01 | -0.6 | 23.41 | 219.28 | 2 |
| 21350 | 2560 | 23.77 | -0.6 | 23.17 | 207.49 | 2 |

| LTE B7 20M16QAM | | | | | | |
|-----------------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 20850 | 2510 | 23.23 | -0.6 | 22.63 | 183.23 | 2 |
| 21100 | 2535 | 23.14 | -0.6 | 22.54 | 179.47 | 2 |
| 21350 | 2560 | 22.95 | -0.6 | 22.35 | 171.79 | 2 |

| LTE B7 20M64QAM | | | | | | |
|-----------------|-----------------|-----------------------|-----------|------------|-----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP (mW) | Lmit (W) |
| 20850 | 2510 | 22.17 | -0.6 | 21.57 | 143.55 | 2 |
| 21100 | 2535 | 22.14 | -0.6 | 21.54 | 142.56 | 2 |
| 21350 | 2560 | 21.91 | -0.6 | 21.31 | 135.21 | 2 |

| LTE B12 1.4M QPSK | | | | | | |
|-------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23017 | 699.7 | 24.5 | -3.1 | 19.25 | 84.14 | 3 |
| 23095 | 707.5 | 24.41 | -3.1 | 19.16 | 82.41 | 3 |
| 23173 | 715.3 | 24.37 | -3.1 | 19.12 | 81.66 | 3 |

| LTE B12 1.4M 16QAM | | | | | | |
|--------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23017 | 699.7 | 23.72 | -3.1 | 18.47 | 70.31 | 3 |
| 23095 | 707.5 | 23.57 | -3.1 | 18.32 | 67.92 | 3 |
| 23173 | 715.3 | 23.63 | -3.1 | 18.38 | 68.87 | 3 |



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| LTE B12 1.4M 64QAM | | | | | | |
|--------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23017 | 699.7 | 22.65 | -3.1 | 17.4 | 54.95 | 3 |
| 23095 | 707.5 | 22.52 | -3.1 | 17.27 | 53.33 | 3 |
| 23173 | 715.3 | 22.44 | -3.1 | 17.19 | 52.36 | 3 |

| LTE B12 3M QPSK | | | | | | |
|-----------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23025 | 700.5 | 24.45 | -3.1 | 19.2 | 83.18 | 3 |
| 23095 | 707.5 | 24.38 | -3.1 | 19.13 | 81.85 | 3 |
| 23165 | 714.5 | 24.36 | -3.1 | 19.11 | 81.47 | 3 |

| LTE B12 3M 16QAM | | | | | | |
|------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23025 | 700.5 | 23.65 | -3.1 | 18.4 | 69.18 | 3 |
| 23095 | 707.5 | 23.66 | -3.1 | 18.41 | 69.34 | 3 |
| 23165 | 714.5 | 23.6 | -3.1 | 18.35 | 68.39 | 3 |

| LTE B12 3M 64QAM | | | | | | |
|------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23025 | 700.5 | 22.62 | -3.1 | 17.37 | 54.58 | 3 |
| 23095 | 707.5 | 22.58 | -3.1 | 17.33 | 54.08 | 3 |
| 23165 | 714.5 | 22.5 | -3.1 | 17.25 | 53.09 | 3 |

| LTE B12 5M QPSK | | | | | | |
|-----------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23035 | 701.5 | 24.42 | -3.1 | 19.17 | 82.6 | 3 |
| 23095 | 707.5 | 24.45 | -3.1 | 19.2 | 83.18 | 3 |
| 23155 | 713.5 | 24.38 | -3.1 | 19.13 | 81.85 | 3 |

| LTE B12 5M 16QAM | | | | | | |
|------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23035 | 701.5 | 23.69 | -3.1 | 18.44 | 69.82 | 3 |
| 23095 | 707.5 | 23.64 | -3.1 | 18.39 | 69.02 | 3 |
| 23155 | 713.5 | 23.69 | -3.1 | 18.44 | 69.82 | 3 |

| LTE B12 5M 64QAM | | | | | | |
|------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23035 | 701.5 | 22.61 | -3.1 | 17.36 | 54.45 | 3 |
| 23095 | 707.5 | 22.6 | -3.1 | 17.35 | 54.33 | 3 |
| 23155 | 713.5 | 22.51 | -3.1 | 17.26 | 53.21 | 3 |

| LTE B12 10M QPSK | | | | | | |
|------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23060 | 704 | 24.51 | -3.1 | 19.26 | 84.33 | 3 |
| 23095 | 707.5 | 24.47 | -3.1 | 19.22 | 83.56 | 3 |
| 23130 | 711 | 24.42 | -3.1 | 19.17 | 82.6 | 3 |

| LTE B12 10M 16QAM | | | | | | |
|-------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23060 | 704 | 23.74 | -3.1 | 18.49 | 70.63 | 3 |
| 23095 | 707.5 | 23.71 | -3.1 | 18.46 | 70.15 | 3 |
| 23130 | 711 | 23.72 | -3.1 | 18.47 | 70.31 | 3 |

| LTE B12 10M 64QAM | | | | | | |
|-------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23060 | 704 | 22.71 | -3.1 | 17.46 | 55.72 | 3 |
| 23095 | 707.5 | 22.64 | -3.1 | 17.39 | 54.83 | 3 |
| 23130 | 711 | 22.53 | -3.1 | 17.28 | 53.46 | 3 |

| LTE B13 5M QPSK | | | | | | |
|-----------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23205 | 779.5 | 24.37 | -4.4 | 17.82 | 60.53 | 3 |
| 23230 | 782 | 24.39 | -4.4 | 17.84 | 60.81 | 3 |
| 23255 | 784.5 | 24.48 | -4.4 | 17.93 | 62.09 | 3 |

| LTE B13 5M 16QAM | | | | | | |
|------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23205 | 779.5 | 23.77 | -4.4 | 17.22 | 52.72 | 3 |
| 23230 | 782 | 23.79 | -4.4 | 17.24 | 52.97 | 3 |
| 23255 | 784.5 | 23.91 | -4.4 | 17.36 | 54.45 | 3 |

| LTE B13 5M 64QAM | | | | | | |
|------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23205 | 779.5 | 22.7 | -4.4 | 16.15 | 41.21 | 3 |
| 23230 | 782 | 22.74 | -4.4 | 16.19 | 41.59 | 3 |
| 23255 | 784.5 | 22.82 | -4.4 | 16.27 | 42.36 | 3 |

| LTE B13 10M QPSK | | | | | | |
|------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23230 | 782 | 24.53 | -4.4 | 17.98 | 62.81 | 3 |

| LTE B13 10M 16QAM | | | | | | |
|-------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23230 | 782 | 23.7 | -4.4 | 17.15 | 51.88 | 3 |

| LTE B13 10M 64QAM | | | | | | |
|-------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23230 | 782 | 22.66 | -4.4 | 16.11 | 40.83 | 3 |

| LTE B17 5M QPSK | | | | | | |
|-----------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23755 | 706.5 | 24.33 | -3.1 | 19.08 | 80.91 | 3 |
| 23790 | 710 | 24.42 | -3.1 | 19.17 | 82.6 | 3 |
| 23825 | 713.5 | 24.26 | -3.1 | 19.01 | 79.62 | 3 |

| LTE B17 5M 16QAM | | | | | | |
|------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23755 | 706.5 | 23.46 | -3.1 | 18.21 | 66.22 | 3 |
| 23790 | 710 | 23.59 | -3.1 | 18.34 | 68.23 | 3 |
| 23825 | 713.5 | 23.63 | -3.1 | 18.38 | 68.87 | 3 |

| LTE B17 5M 64QAM | | | | | | |
|------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23755 | 706.5 | 22.49 | -3.1 | 17.24 | 52.97 | 3 |
| 23790 | 710 | 22.51 | -3.1 | 17.26 | 53.21 | 3 |
| 23825 | 713.5 | 22.52 | -3.1 | 17.27 | 53.33 | 3 |

| LTE B17 10M QPSK | | | | | | |
|------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23780 | 709 | 24.36 | -3.1 | 19.11 | 81.47 | 3 |
| 23790 | 710 | 24.46 | -3.1 | 19.21 | 83.37 | 3 |
| 23800 | 711 | 24.41 | -3.1 | 19.16 | 82.41 | 3 |



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| LTE B17 10M 16QAM | | | | | | |
|-------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23780 | 709 | 23.56 | -3.1 | 18.31 | 67.76 | 3 |
| 23790 | 710 | 23.68 | -3.1 | 18.43 | 69.66 | 3 |
| 23800 | 711 | 23.67 | -3.1 | 18.42 | 69.5 | 3 |

| LTE B17 10M 64QAM | | | | | | |
|-------------------|-----------------|-----------------------|-----------|-----------|----------|----------|
| Channel | Frequency (MHz) | Conducted Power (dBm) | Gain (dB) | ERP (dBm) | ERP (mW) | Lmit (W) |
| 23780 | 709 | 22.54 | -3.1 | 17.29 | 53.58 | 3 |
| 23790 | 710 | 22.55 | -3.1 | 17.3 | 53.7 | 3 |
| 23800 | 711 | 22.59 | -3.1 | 17.34 | 54.2 | 3 |

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

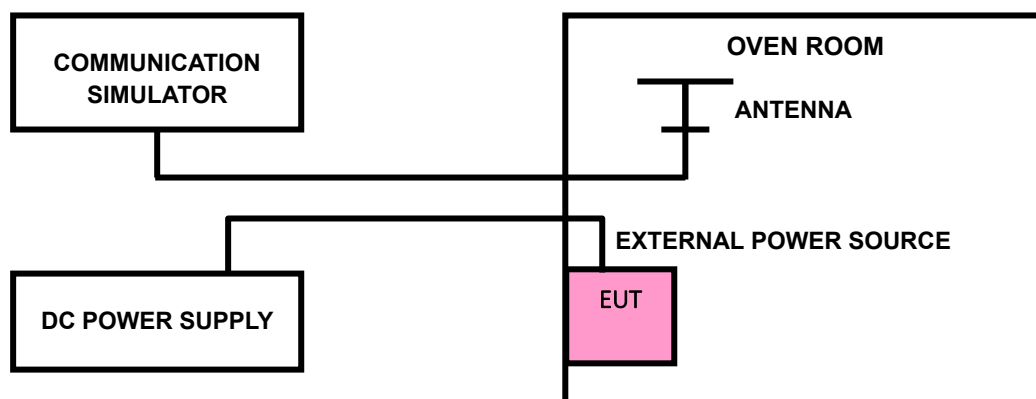
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

3.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP





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3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

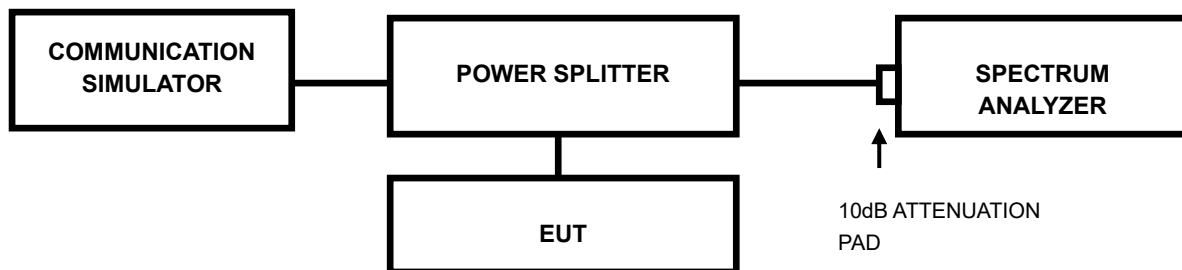
Note: VL = Low voltage(3.7V); VN/NV = Normal voltage(3.91V); VH = High voltage(4.3V);
NT = Normal temperature (25°C)

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



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3.3.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

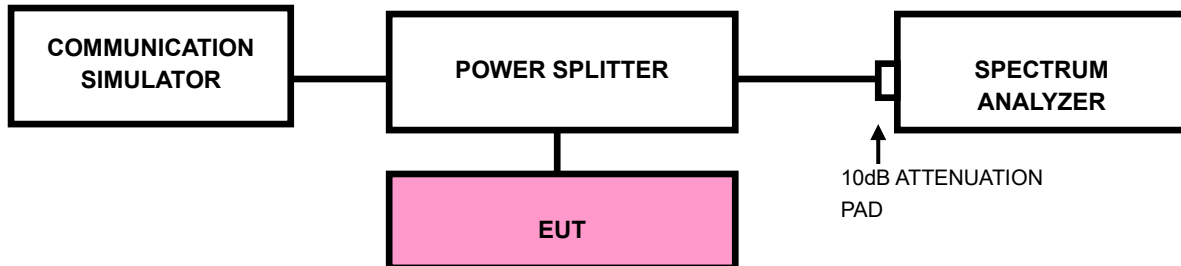
According to FCC 27.53(c) specified that For operations in the 746-758 MHz band and the 776-788 MHz band , the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emission in a 6.25kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P(dBW), by at least $65 + 10 \log 10p(P)$, dB, for mobile and portable equipment.

According to FCC 27.53(h) specified that For operations in the 1710-1755 MHz band, 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. However, in the 1-megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

According to FCC 27.53(g) specified that For operations in the 600 MHz band and the 698-746 MHz band, 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. 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.

According to FCC 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.

3.4.2 TEST SETUP





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3.4.3 TEST PROCEDURES

- a) All measurements were done at low and high operational frequency range
- b) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- c) Tune the analyzer to the nominal center frequency of the emission bandwidth
(EBW)
- d) .Set the resolution bandwidth (RBW) $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- f) Set the video bandwidth (VBW) to $\geq 3 \times$ RBW.
- g) Select the average power (RMS) display detector.
- h) Set the number of measurement points to ≥ 1001 .
- i) Use auto-coupled sweep time.
- j) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- k) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- l) Record the max trace plot into the test report.



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3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

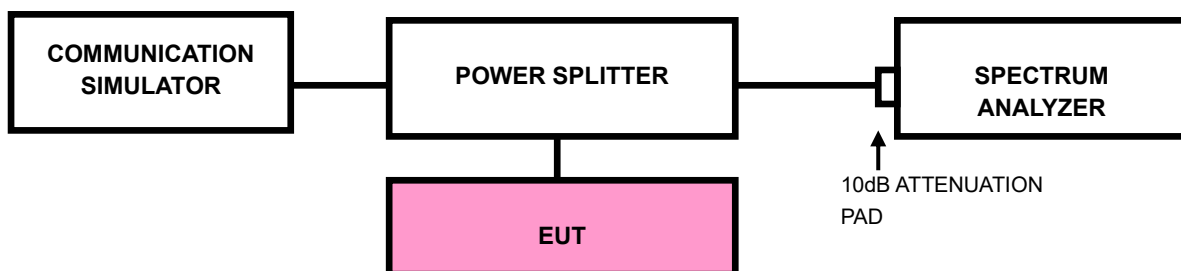
For: LTE Band7/13

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm .

3.5.2 TEST PROCEDURE

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

3.5.3 TEST SETUP





Test Report No.: W7L-240618W001RF07

3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix Of this test report.



3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

For: LTE Band7

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm .

.47 CFR 27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

3.6.2 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. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,
 $\text{E.R.P power} = \text{E.I.R.P power} - 2.15\text{dBi}$.

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



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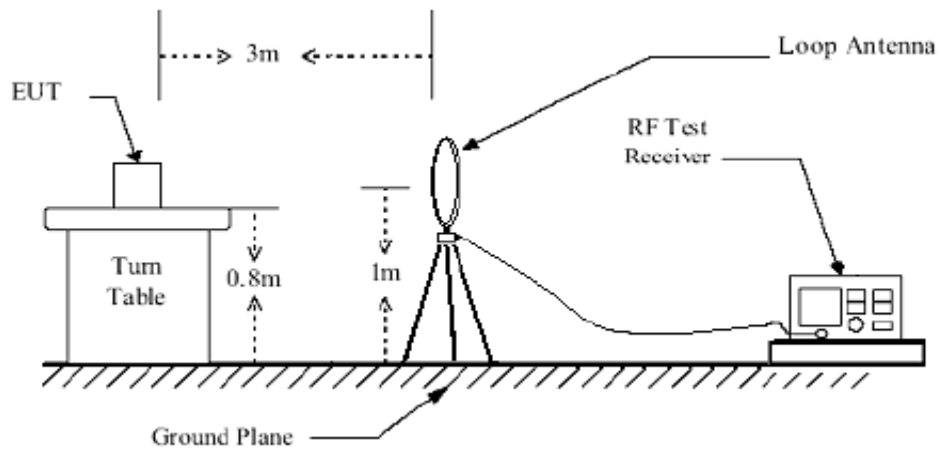
Test Report No.: W7L-240618W001RF07

3.6.3 DEVIATION FROM TEST STANDARD

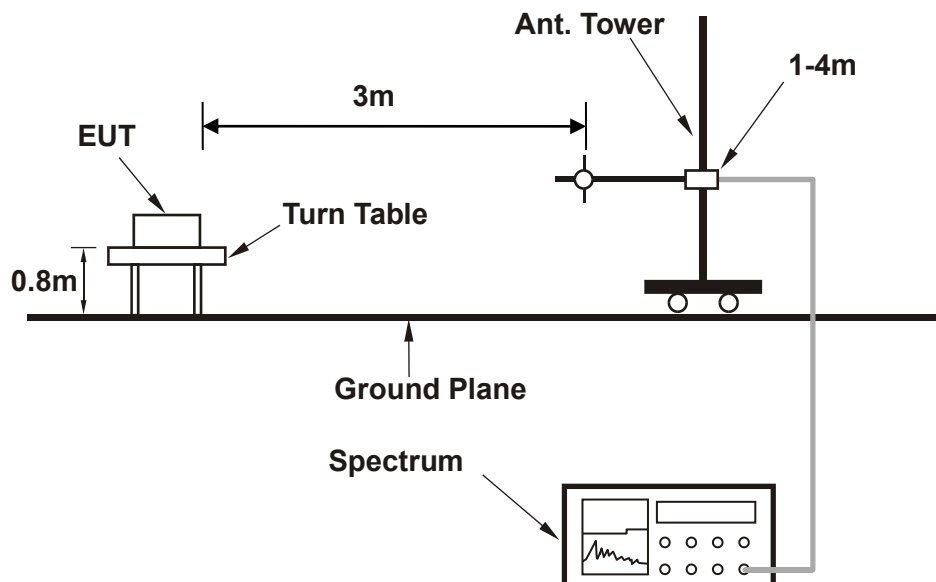
No deviation

3.6.4 TEST SETUP

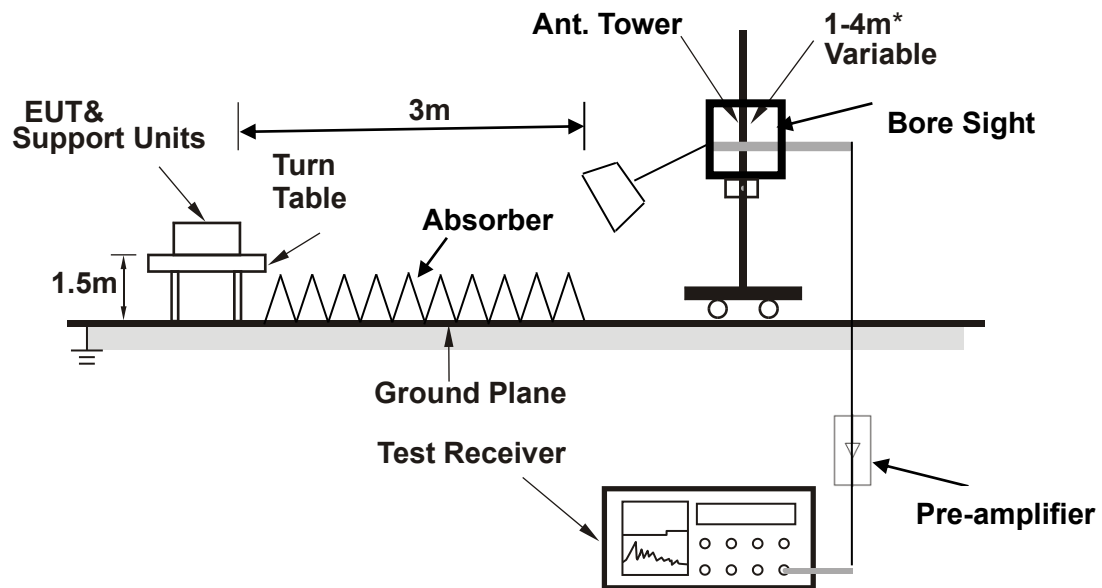
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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



Test Report No.: W7L-240618W001RF07

3.6.5 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA

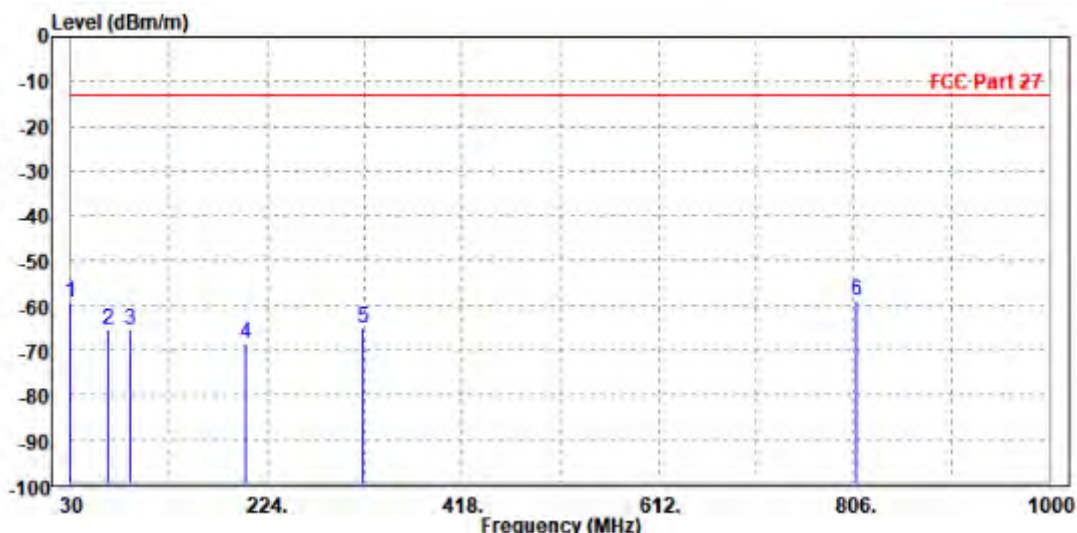
30 MHz – 1GHz data:

LTE Band 13(Ant4) (UP):

CHANNEL BANDWIDTH: 5MHz / QPSK

| | | | |
|--|------------------|-----------------|---------------|
| MODE | TX channel 23255 | FREQUENCY RANGE | Below 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|---------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 30.000 | -59.18 | -57.20 | -13.00 | -46.18 | -1.98 | Peak | Horizontal |
| 2 | 65.890 | -65.21 | -52.90 | -13.00 | -52.21 | -12.31 | Peak | Horizontal |
| 3 | 88.200 | -65.35 | -52.62 | -13.00 | -52.35 | -12.73 | Peak | Horizontal |
| 4 | 202.660 | -68.44 | -53.30 | -13.00 | -55.44 | -15.14 | Peak | Horizontal |
| 5 | 320.030 | -64.94 | -56.51 | -13.00 | -51.94 | -8.43 | Peak | Horizontal |
| 6 PP | 808.910 | -58.99 | -63.80 | -13.00 | -45.99 | 4.81 | Peak | Horizontal |

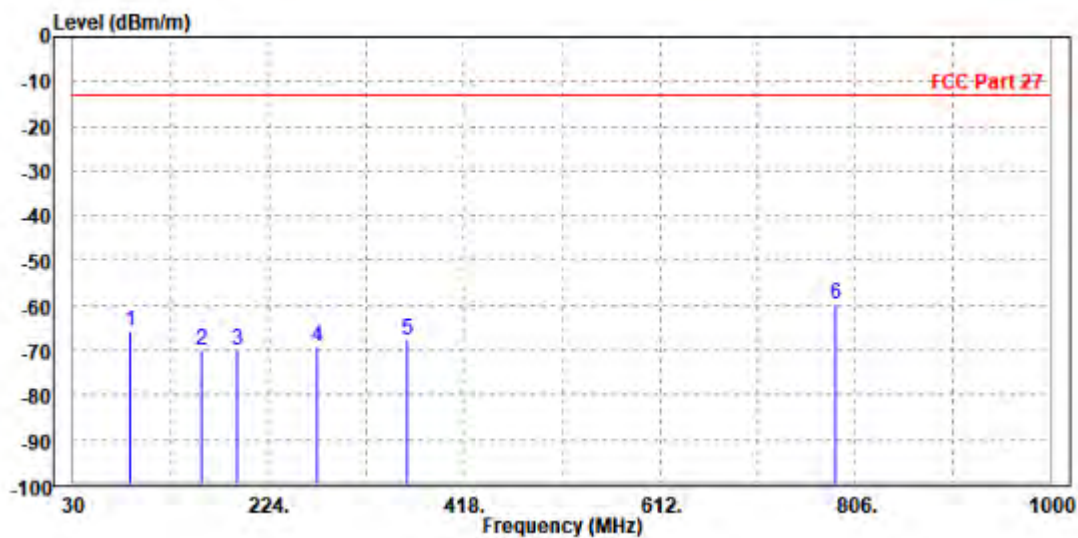




Test Report No.: W7L-240618W001RF07

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 23255 | FREQUENCY RANGE | Below 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Jace Hu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|---------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 87.230 | -65.84 | -48.02 | -13.00 | -52.84 | -17.82 | Peak | Vertical |
| 2 | 157.070 | -69.96 | -58.72 | -13.00 | -56.96 | -11.24 | Peak | Vertical |
| 3 | 192.960 | -70.07 | -62.77 | -13.00 | -57.07 | -7.30 | Peak | Vertical |
| 4 | 272.500 | -69.26 | -65.67 | -13.00 | -56.26 | -3.59 | Peak | Vertical |
| 5 | 360.770 | -67.83 | -63.97 | -13.00 | -54.83 | -3.86 | Peak | Vertical |
| 6 PP | 786.600 | -59.74 | -64.09 | -13.00 | -46.74 | 4.35 | Peak | Vertical |





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Test Report No.: W7L-240618W001RF07

ABOVE 1GHz

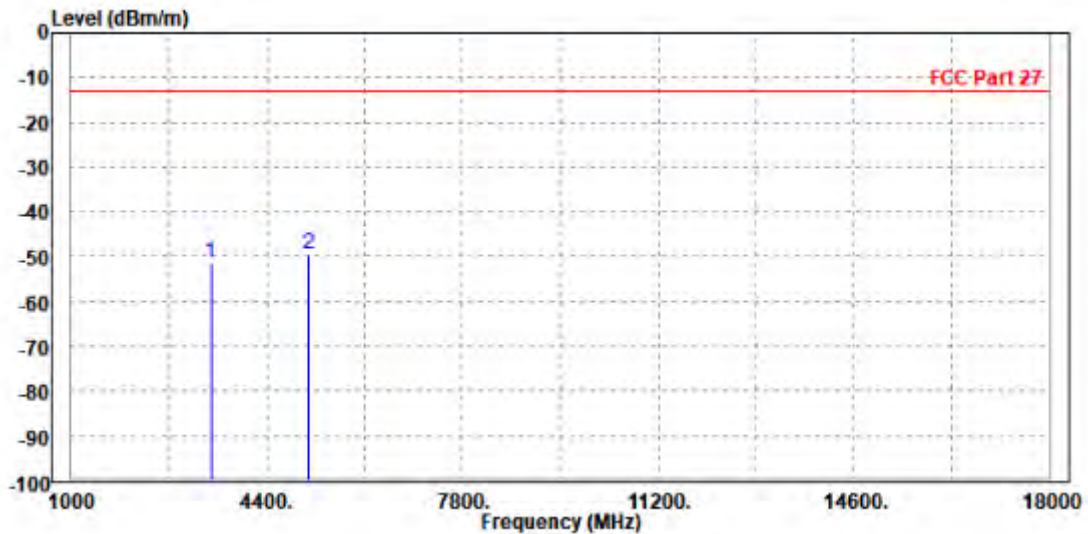
Note: For higher frequency, the emission is too low to be detected.

WCDMA Band IV(Ant1) (DOWN):

CH 1312

| | | | |
|--|-----------------|-----------------|---------------|
| MODE | TX channel 1312 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3424.800 | -51.51 | -60.02 | -13.00 | -38.51 | 8.51 | Peak | Horizontal |
| 2 PP | 5131.000 | -49.29 | -60.54 | -13.00 | -36.29 | 11.25 | Peak | Horizontal |

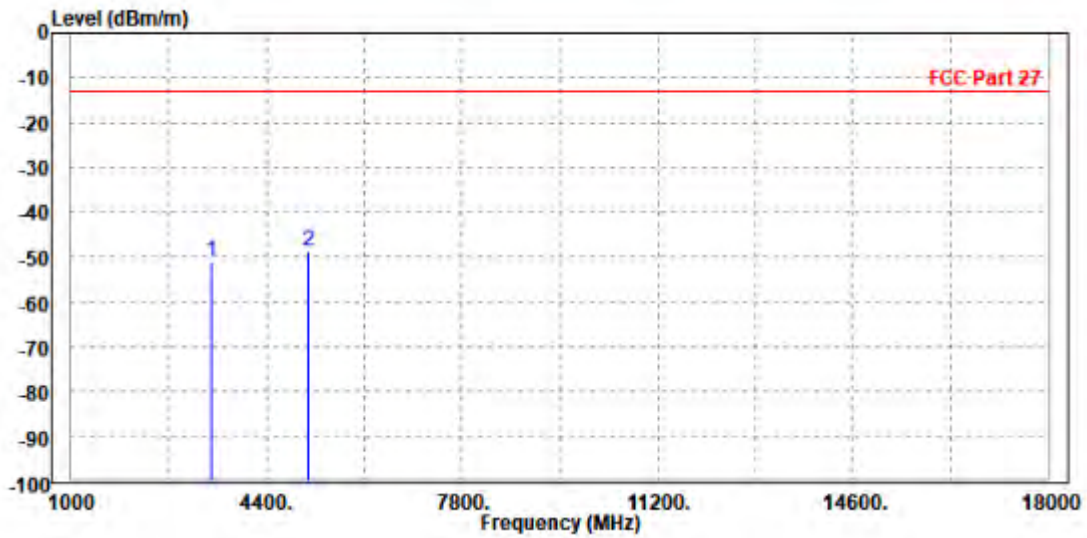




Test Report No.: W7L-240618W001RF07

| | | | |
|--|-----------------|-----------------|---------------|
| MODE | TX channel 1312 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3431.000 | -50.89 | -59.56 | -13.00 | -37.89 | 8.67 | Peak | Vertical |
| 2 PP | 5137.200 | -48.56 | -60.20 | -13.00 | -35.56 | 11.64 | Peak | Vertical |



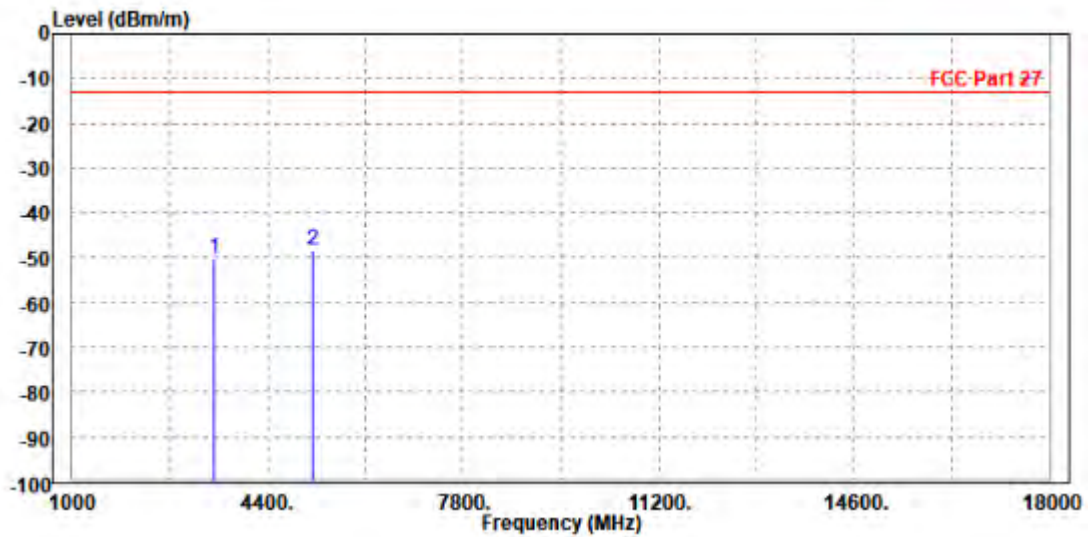


Test Report No.: W7L-240618W001RF07

CH 1413

| | | | |
|---|-----------------|-----------------|---------------|
| MODE | TX channel 1413 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3465.000 | -50.15 | -58.69 | -13.00 | -37.15 | 8.54 | Peak | Horizontal |
| 2 PP | 5197.800 | -48.32 | -59.67 | -13.00 | -35.32 | 11.35 | Peak | Horizontal |

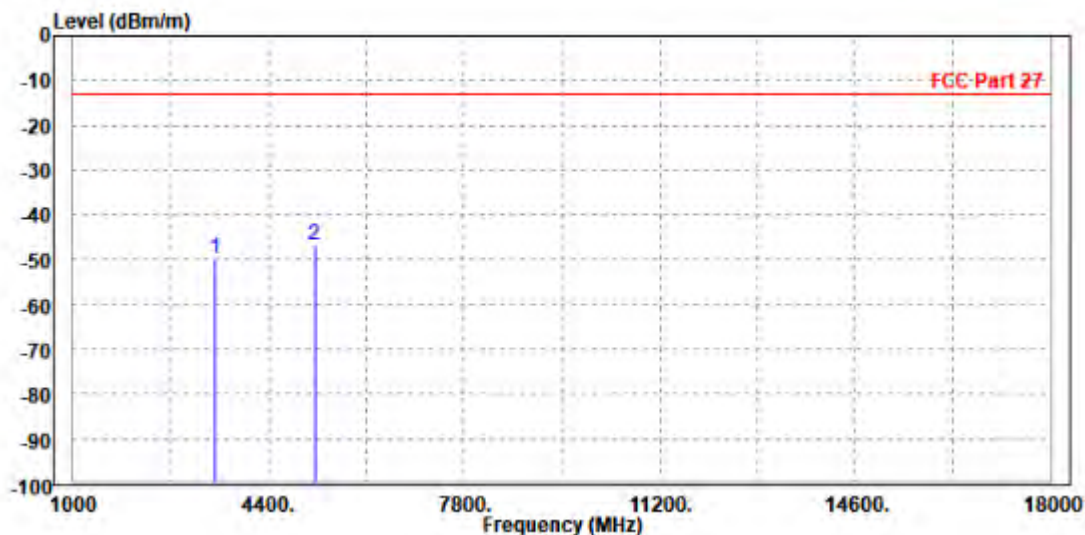




Test Report No.: W7L-240618W001RF07

| | | | |
|--|-----------------|-----------------|---------------|
| MODE | TX channel 1413 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3465.200 | -49.98 | -58.63 | -13.00 | -36.98 | 8.65 | Peak | Vertical |
| 2 PP | 5199.000 | -46.77 | -58.53 | -13.00 | -33.77 | 11.76 | Peak | Vertical |



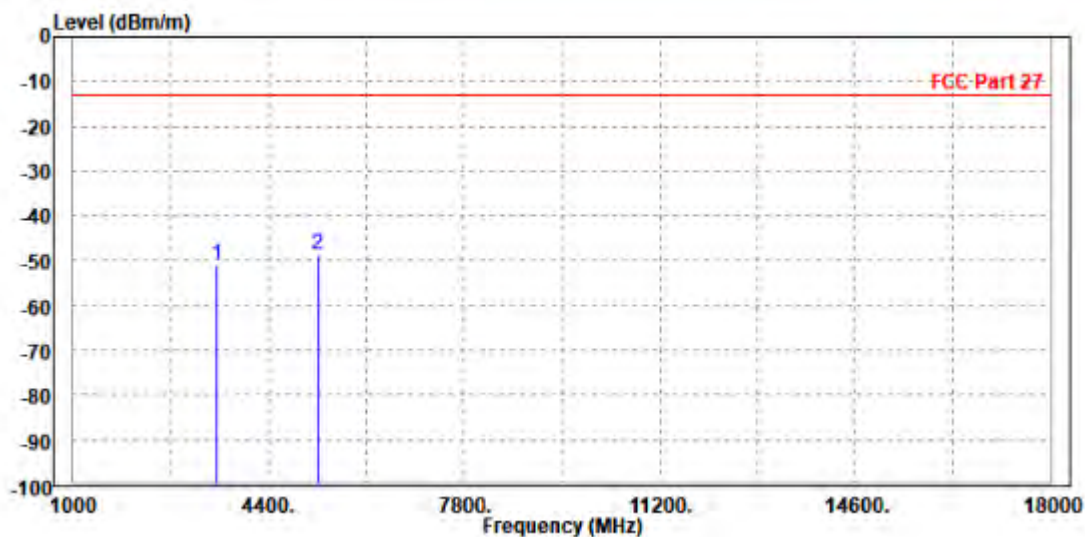


Test Report No.: W7L-240618W001RF07

CH 1513

| | | | |
|--|-----------------|-----------------|---------------|
| MODE | TX channel 1513 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3499.000 | -51.09 | -59.65 | -13.00 | -38.09 | 8.56 | Peak | Horizontal |
| 2 PP | 5257.800 | -48.84 | -60.28 | -13.00 | -35.84 | 11.44 | Peak | Horizontal |



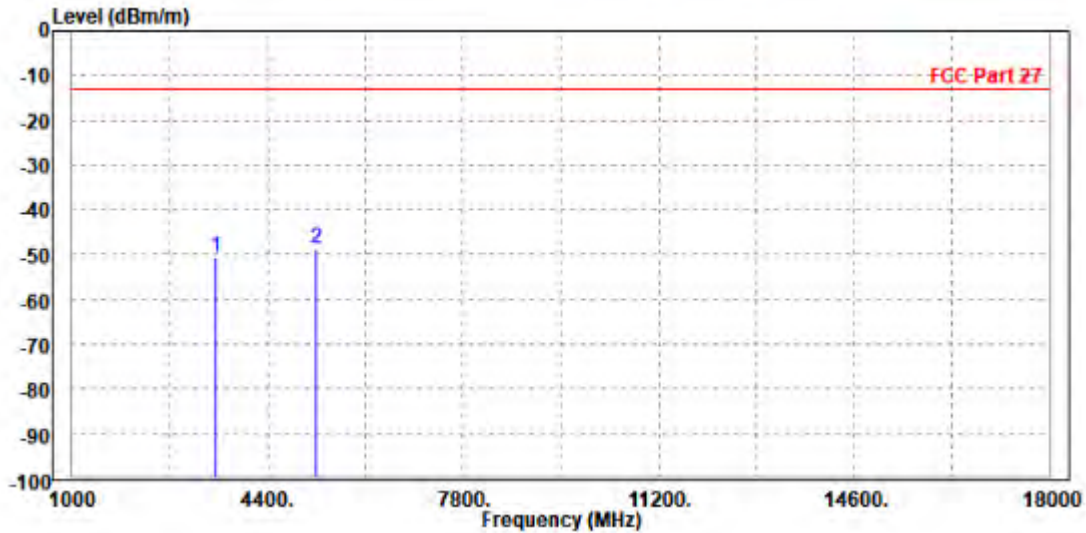


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Test Report No.: W7L-240618W001RF07

| | | | |
|--|-----------------|------------------------|---------------|
| MODE | TX channel 1513 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 3505.200 | -50.56 | -59.20 | -13.00 | -37.56 | 8.64 | Peak | Vertical |
| 2 PP | 5250.000 | -48.54 | -60.39 | -13.00 | -35.54 | 11.85 | Peak | Vertical |



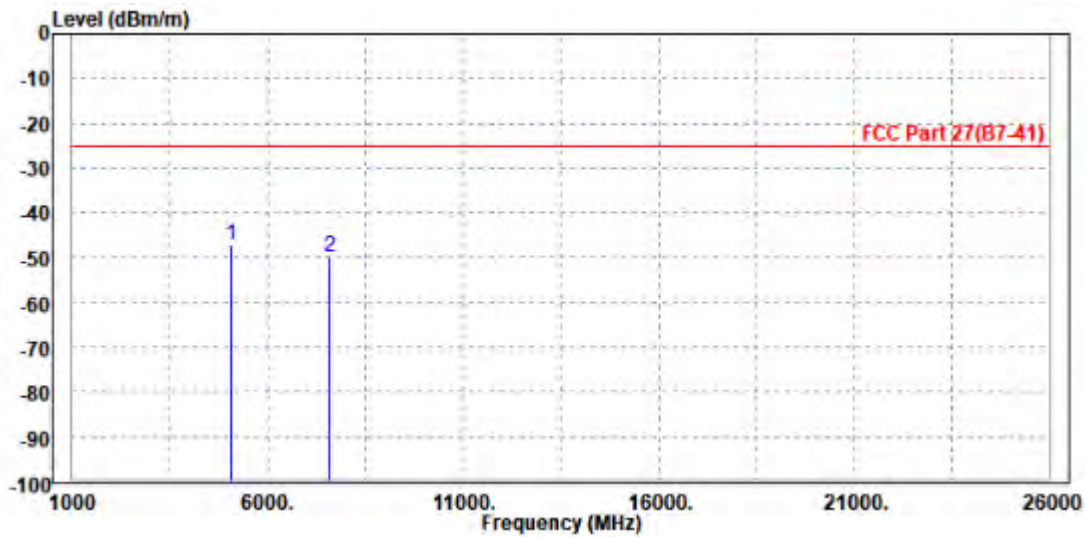


Test Report No.: W7L-240618W001RF07

LTE Band 7(Ant4) (UP):
CHANNEL BANDWIDTH: 5MHz / QPSK

| | | | |
|---|------------------|-----------------|---------------|
| MODE | TX channel 21100 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 5075.000 | -47.24 | -58.41 | -25.00 | -22.24 | 11.17 | Peak | Horizontal |
| 2 | 7605.000 | -49.62 | -64.14 | -25.00 | -24.62 | 14.52 | Peak | Horizontal |

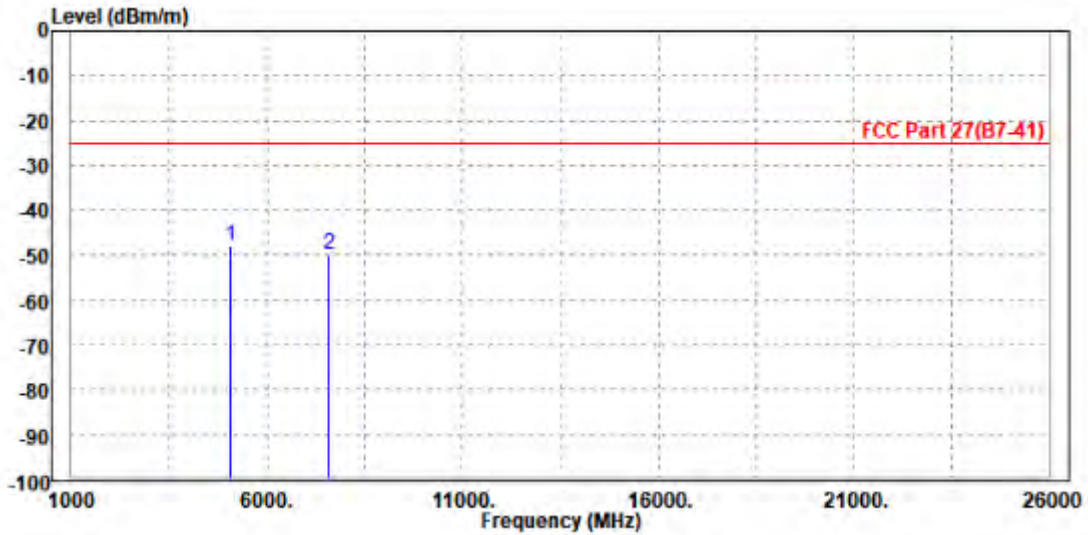




Test Report No.: W7L-240618W001RF07

| | | | |
|--|------------------|-----------------|---------------|
| MODE | TX channel 21100 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 5070.000 | -47.76 | -59.27 | -25.00 | -22.76 | 11.51 | Peak | Vertical |
| 2 | 7600.000 | -49.81 | -63.26 | -25.00 | -24.81 | 13.45 | Peak | Vertical |



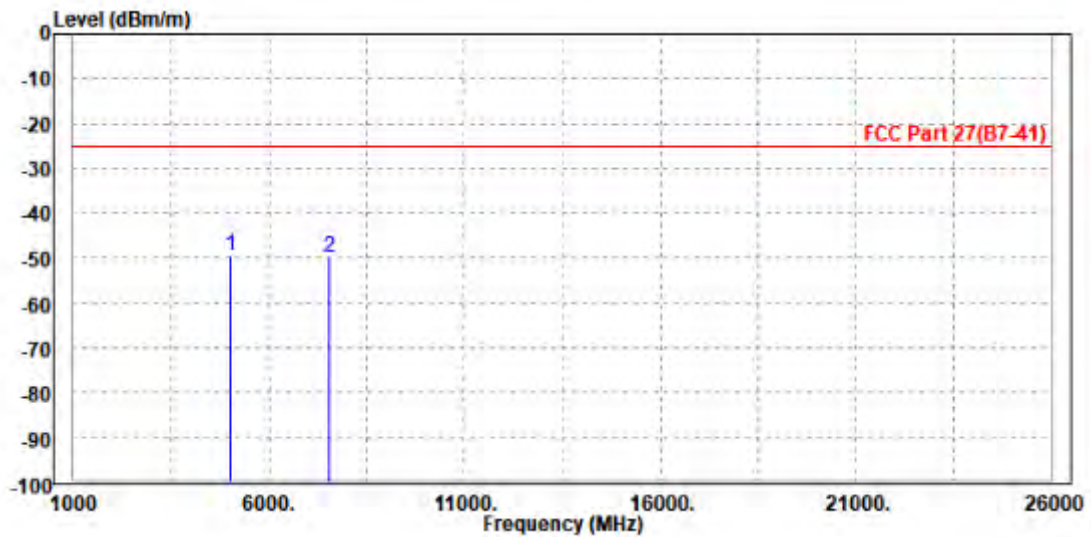


Test Report No.: W7L-240618W001RF07

CHANNEL BANDWIDTH: 10MHz / QPSK
CH 20800

| | | | |
|--|------------------|-----------------|---------------|
| MODE | TX channel 20800 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 5010.000 | -49.59 | -60.66 | -25.00 | -24.59 | 11.07 | Peak | Horizontal |
| 2 | 7525.000 | -49.63 | -64.01 | -25.00 | -24.63 | 14.38 | Peak | Horizontal |

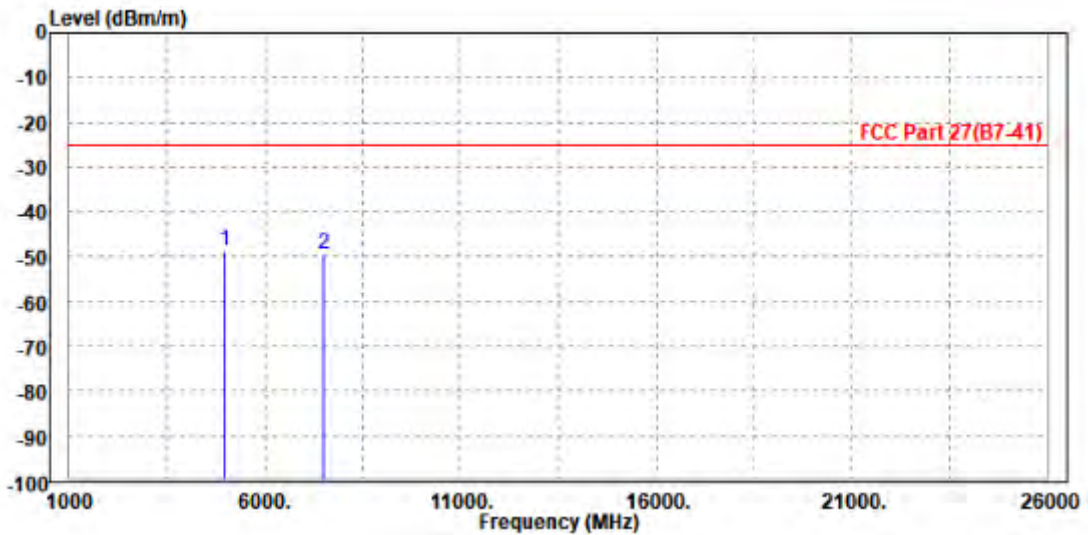




Test Report No.: W7L-240618W001RF07

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 20800 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 5000.000 | -48.56 | -59.93 | -25.00 | -23.56 | 11.37 | Peak | Vertical |
| 2 | 7515.000 | -49.57 | -62.66 | -25.00 | -24.57 | 13.09 | Peak | Vertical |



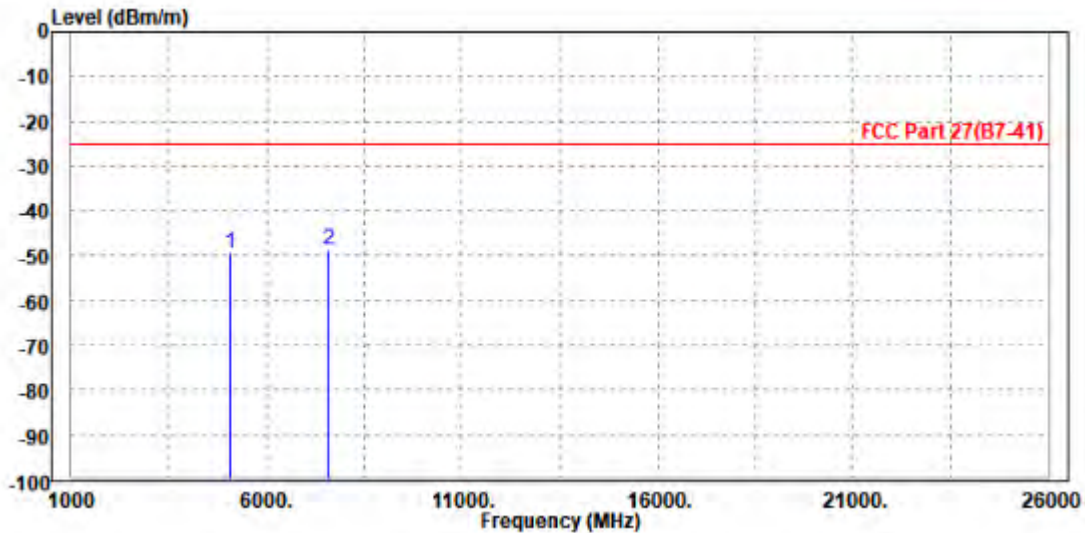


Test Report No.: W7L-240618W001RF07

CH 21100

| | | | |
|---|------------------|-----------------|---------------|
| MODE | TX channel 21100 | 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 | | | |

| | Freq | Level | Read Level | Limit | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|--------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | 5075.000 | -49.52 | -60.69 | -25.00 | -24.52 | 11.17 | Peak | Horizontal |
| 2 PP | 7605.000 | -48.84 | -63.36 | -25.00 | -23.84 | 14.52 | Peak | Horizontal |

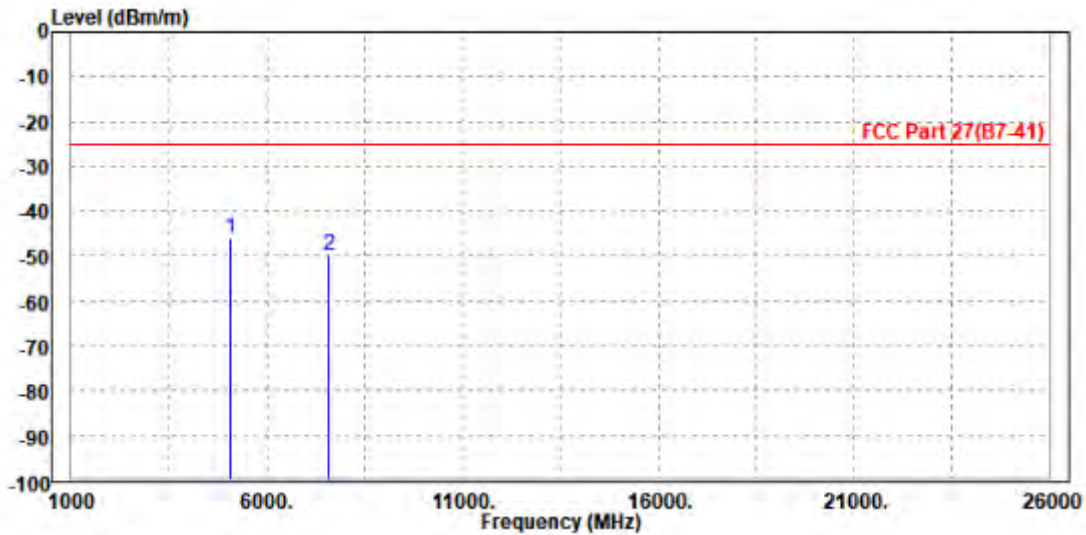




Test Report No.: W7L-240618W001RF07

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 21100 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 5070.000 | -46.08 | -57.59 | -25.00 | -21.08 | 11.51 | Peak | Vertical |
| 2 | 7600.000 | -49.97 | -63.42 | -25.00 | -24.97 | 13.45 | Peak | Vertical |





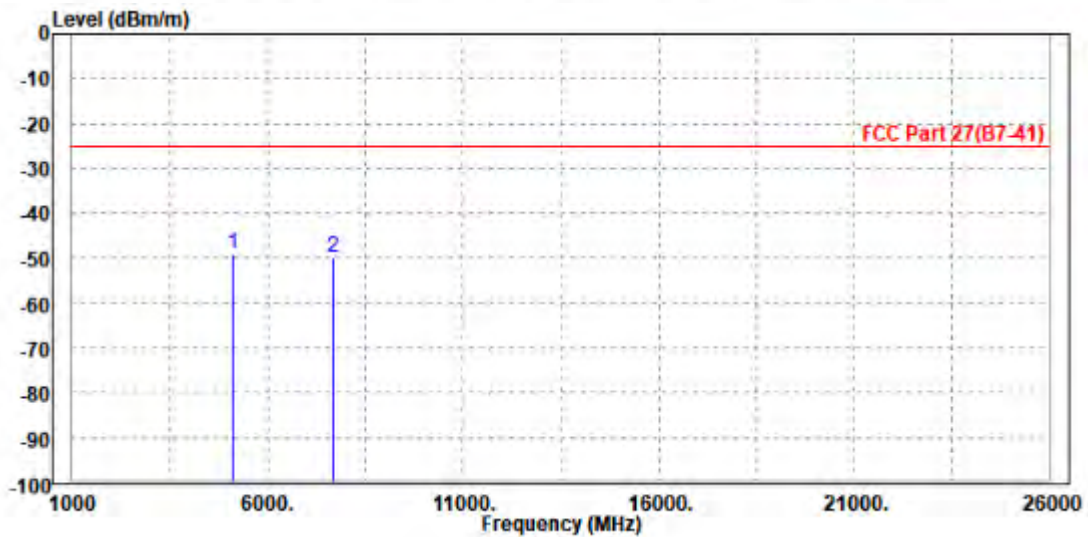
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Test Report No.: W7L-240618W001RF07

CH 21400

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 21400 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 5125.000 | -49.01 | -60.26 | -25.00 | -24.01 | 11.25 | Peak | Horizontal |
| 2 | 7695.000 | -49.76 | -64.44 | -25.00 | -24.76 | 14.68 | Peak | Horizontal |

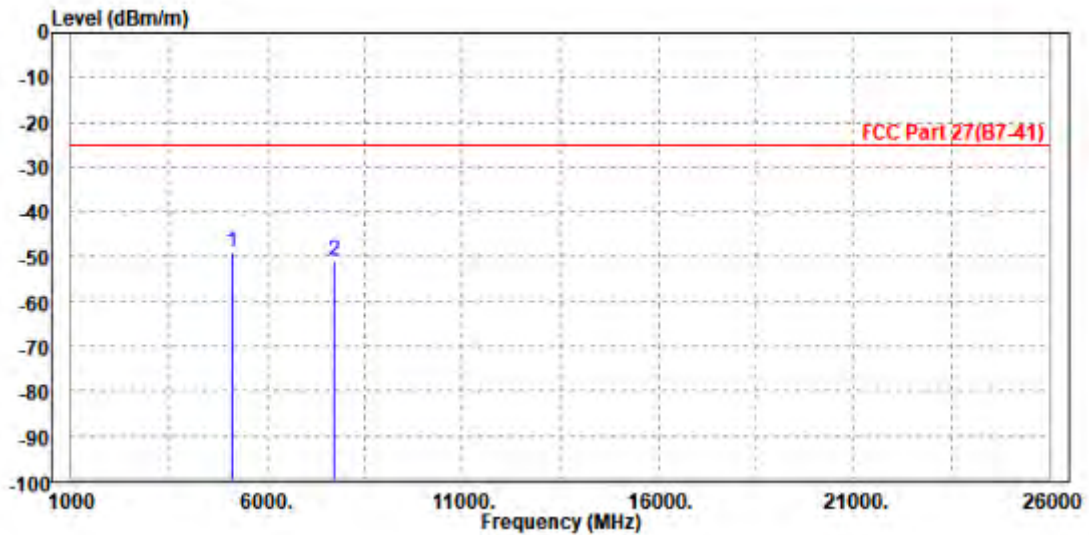




Test Report No.: W7L-240618W001RF07

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 21400 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 5130.000 | -48.95 | -60.57 | -25.00 | -23.95 | 11.62 | Peak | Vertical |
| 2 | 7700.000 | -50.90 | -64.79 | -25.00 | -25.90 | 13.89 | Peak | Vertical |





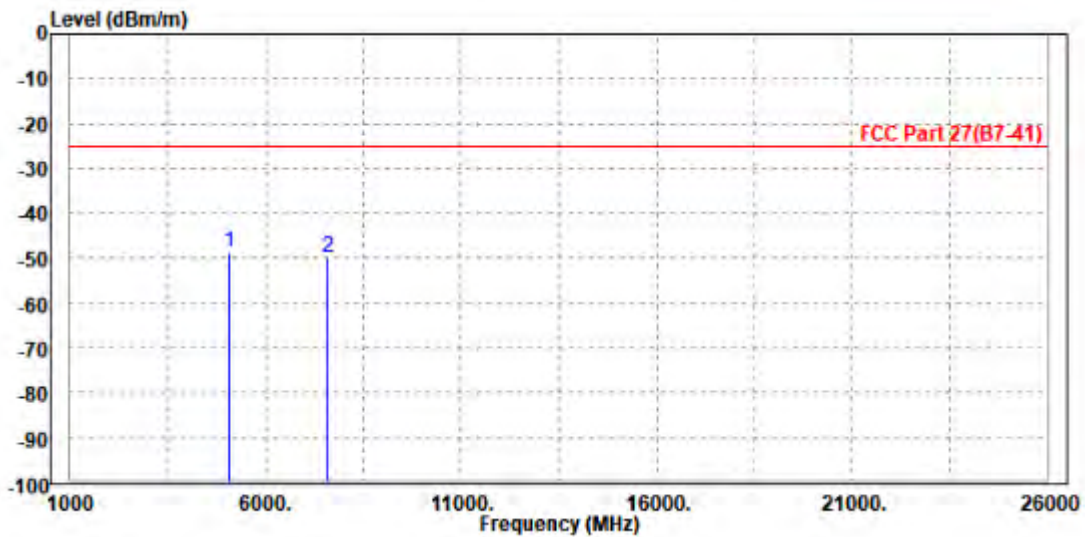
BUREAU VERITAS

Test Report No.: W7L-240618W001RF07

CHANNEL BANDWIDTH: 15MHz / QPSK

| | | | |
|--|------------------|-----------------|---------------|
| MODE | TX channel 21100 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | PoI/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 5070.000 | -48.49 | -59.65 | -25.00 | -23.49 | 11.16 | Peak | Horizontal |
| 2 | 7600.000 | -49.84 | -64.35 | -25.00 | -24.84 | 14.51 | Peak | Horizontal |

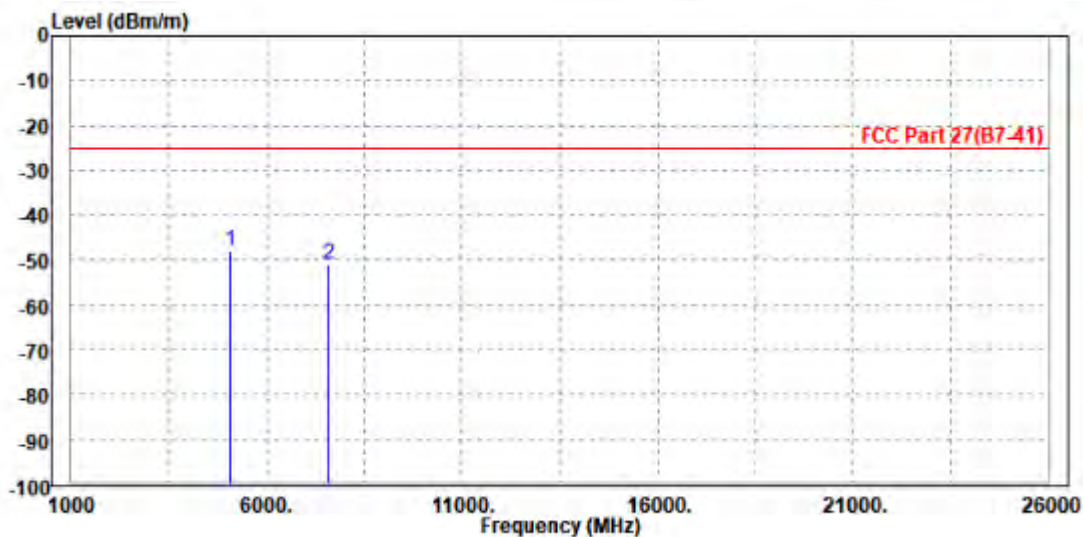




Test Report No.: W7L-240618W001RF07

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 21100 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 5075.000 | -47.79 | -59.31 | -25.00 | -22.79 | 11.52 | Peak | Vertical |
| 2 | 7605.000 | -50.84 | -64.32 | -25.00 | -25.84 | 13.48 | Peak | Vertical |



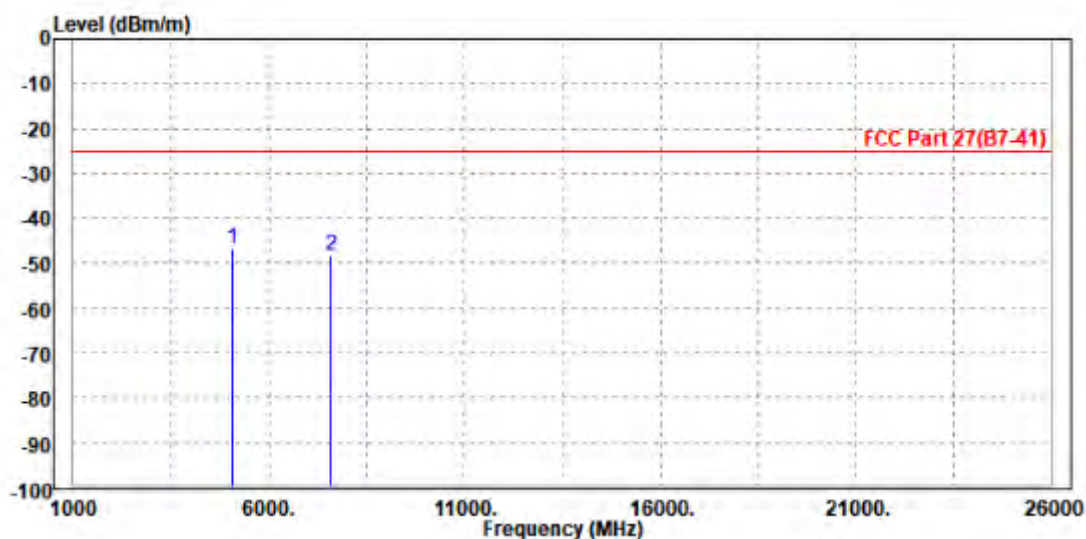


Test Report No.: W7L-240618W001RF07

CHANNEL BANDWIDTH: 20MHz / QPSK

| | | | |
|---|------------------|-----------------|---------------|
| MODE | TX channel 21100 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 5075.000 | -46.62 | -57.79 | -25.00 | -21.62 | 11.17 | Peak | Horizontal |
| 2 | 7605.000 | -48.43 | -62.95 | -25.00 | -23.43 | 14.52 | Peak | Horizontal |

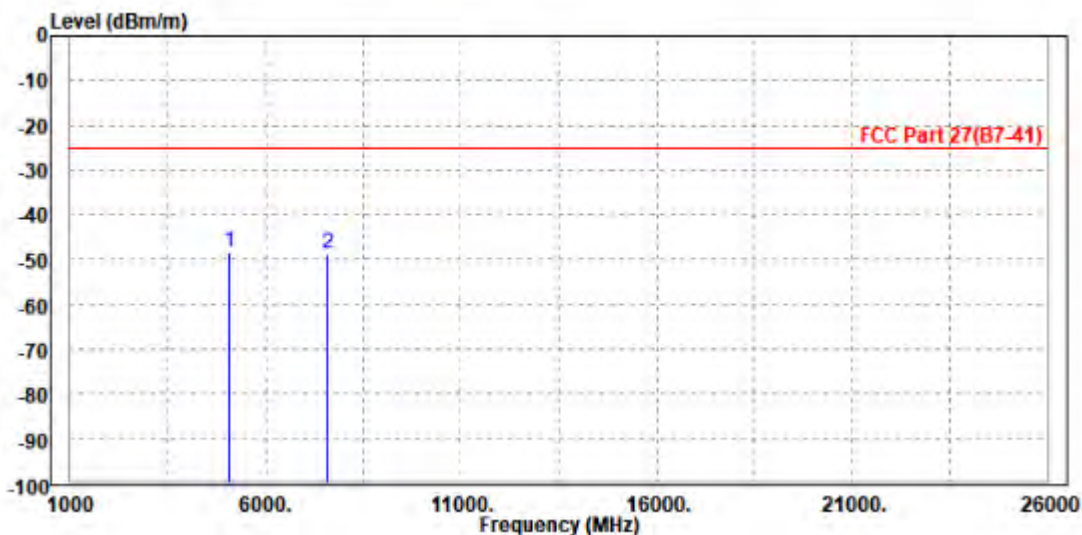




Test Report No.: W7L-240618W001RF07

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 21100 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 5070.000 | -48.39 | -59.90 | -25.00 | -23.39 | 11.51 | Peak | Vertical |
| 2 | 7600.000 | -48.85 | -62.30 | -25.00 | -23.85 | 13.45 | Peak | Vertical |





Test Report No.: W7L-240618W001RF07

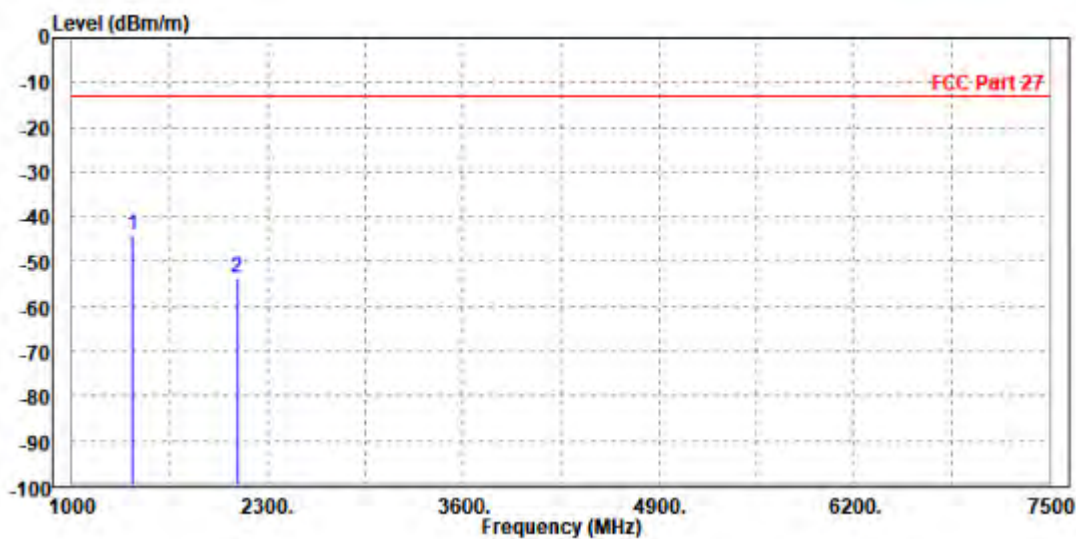
LTE BAND 12(Ant4) (UP):

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH23017

| | | | |
|--|------------------|-----------------|---------------|
| MODE | TX channel 23017 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 1396.500 | -44.21 | -47.09 | -13.00 | -31.21 | 2.88 | Peak | Horizontal |
| 2 | 2097.000 | -53.65 | -58.66 | -13.00 | -40.65 | 5.01 | Peak | Horizontal |

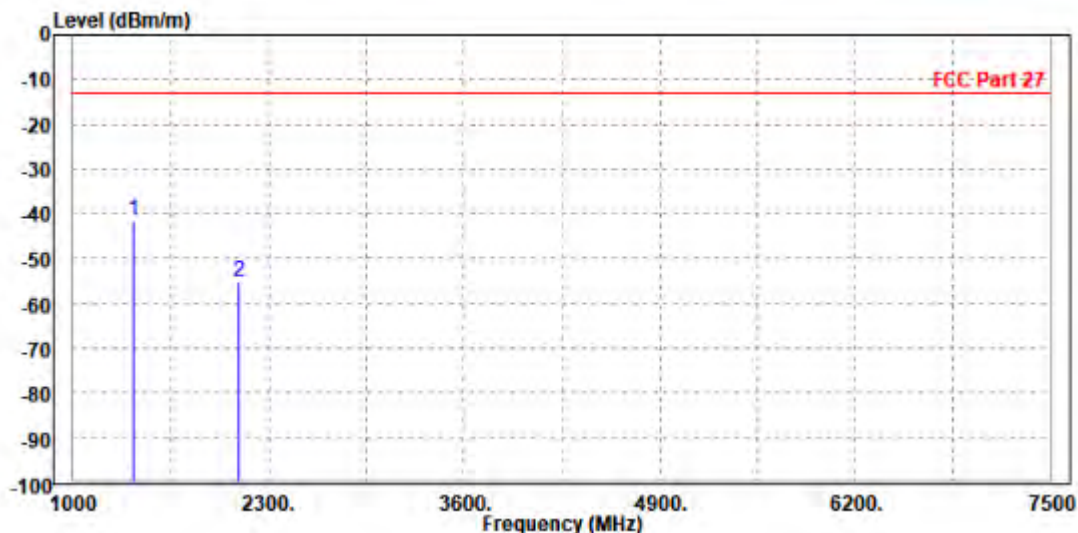




Test Report No.: W7L-240618W001RF07

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 23017 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 1398.000 | -41.63 | -44.51 | -13.00 | -28.63 | 2.88 | Peak | Vertical |
| 2 | 2098.500 | -54.99 | -59.34 | -13.00 | -41.99 | 4.35 | Peak | Vertical |



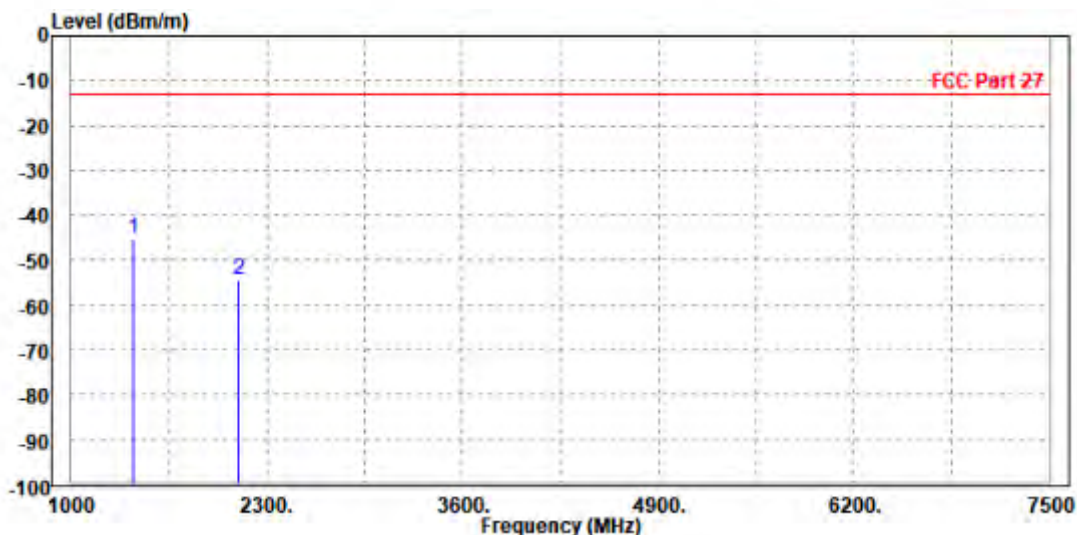


Test Report No.: W7L-240618W001RF07

CH23095

| | | | |
|--|------------------|-----------------|---------------|
| MODE | TX channel 23095 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 1414.000 | -45.20 | -48.14 | -13.00 | -32.20 | 2.94 | Peak | Horizontal |
| 2 | 2118.000 | -54.52 | -59.59 | -13.00 | -41.52 | 5.07 | Peak | Horizontal |

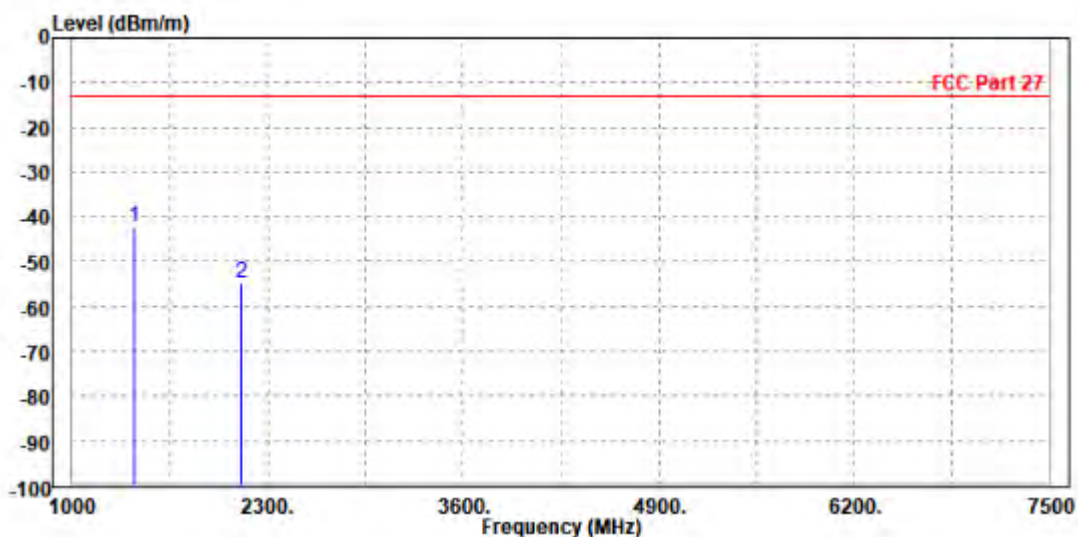




Test Report No.: W7L-240618W001RF07

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 23095 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 1416.000 | -42.16 | -45.09 | -13.00 | -29.16 | 2.93 | Peak | Vertical |
| 2 | 2121.000 | -54.71 | -59.14 | -13.00 | -41.71 | 4.43 | Peak | Vertical |





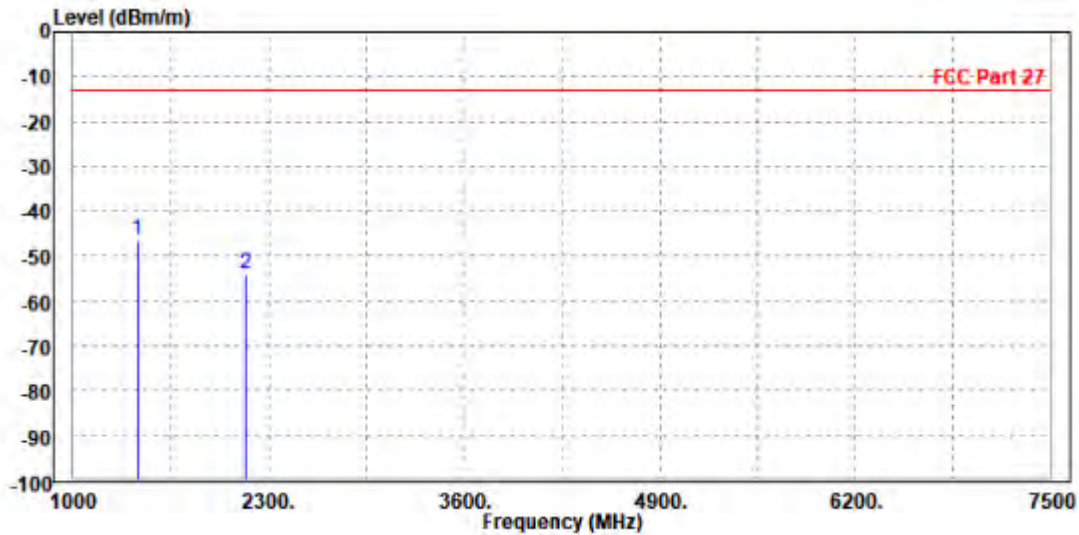
**BUREAU
VERITAS**

Test Report No.: W7L-240618W001RF07

CH23173

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 23173 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 1430.000 | -46.27 | -49.25 | -13.00 | -33.27 | 2.98 | Peak | Horizontal |
| 2 | 2144.000 | -54.04 | -59.18 | -13.00 | -41.04 | 5.14 | Peak | Horizontal |

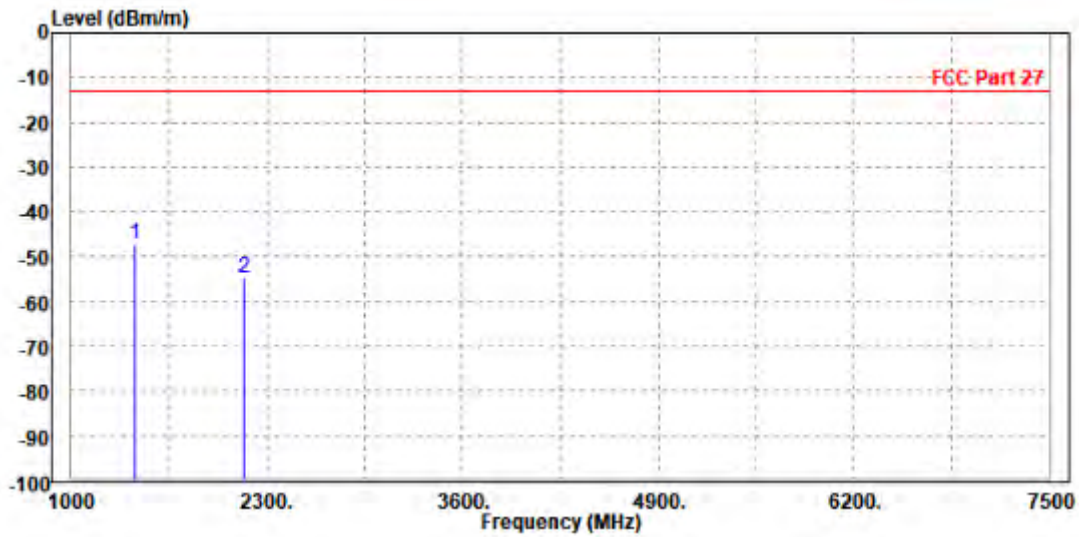




Test Report No.: W7L-240618W001RF07

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 23173 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 1429.000 | -47.02 | -49.98 | -13.00 | -34.02 | 2.96 | Peak | Vertical |
| 2 | 2145.000 | -54.86 | -59.38 | -13.00 | -41.86 | 4.52 | Peak | Vertical |



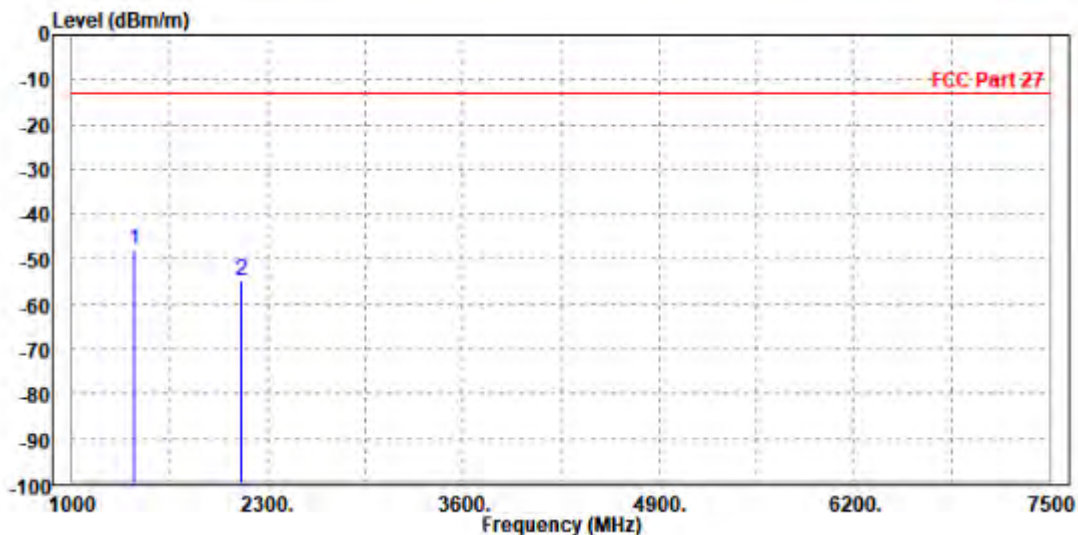


Test Report No.: W7L-240618W001RF07

CHANNEL BANDWIDTH: 3MHz / QPSK

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 23095 | 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 | | | |

| | | Read | Limit | Over | | | |
|---|-------------|--------|--------|--------|--------|--------|-----------------|
| | Freq | Level | Level | Line | Limit | Factor | Remark |
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | Pol/Phase |
| 1 | PP 1416.000 | -47.76 | -50.70 | -13.00 | -34.76 | 2.94 | Peak Horizontal |
| 2 | 2121.000 | -54.78 | -59.86 | -13.00 | -41.78 | 5.08 | Peak Horizontal |

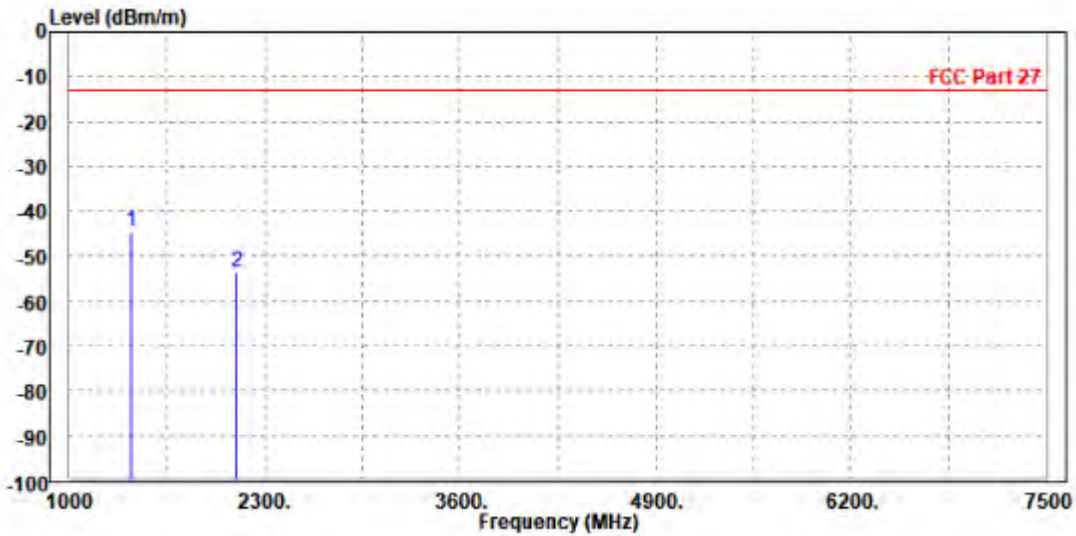




Test Report No.: W7L-240618W001RF07

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 23095 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|-----------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 1414.000 | -44.39 | -47.31 | -13.00 | -31.39 | 2.92 | Peak | Vertical |
| 2 | 2118.000 | -53.67 | -58.09 | -13.00 | -40.67 | 4.42 | Peak | Vertical |





Test Report No.: W7L-240618W001RF07

CHANNEL BANDWIDTH: 5MHz / QPSK

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 23095 | 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 | | | |

| | Freq | Level | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|-------------|--------|------------|------------|------------|--------|--------|------------|
| | MHz | dBm/m | dBm | dBm/m | dB | dB/m | | |
| 1 | PP 1414.000 | -48.09 | -51.03 | -13.00 | -35.09 | 2.94 | Peak | Horizontal |
| 2 | 2118.000 | -55.10 | -60.17 | -13.00 | -42.10 | 5.07 | Peak | Horizontal |

