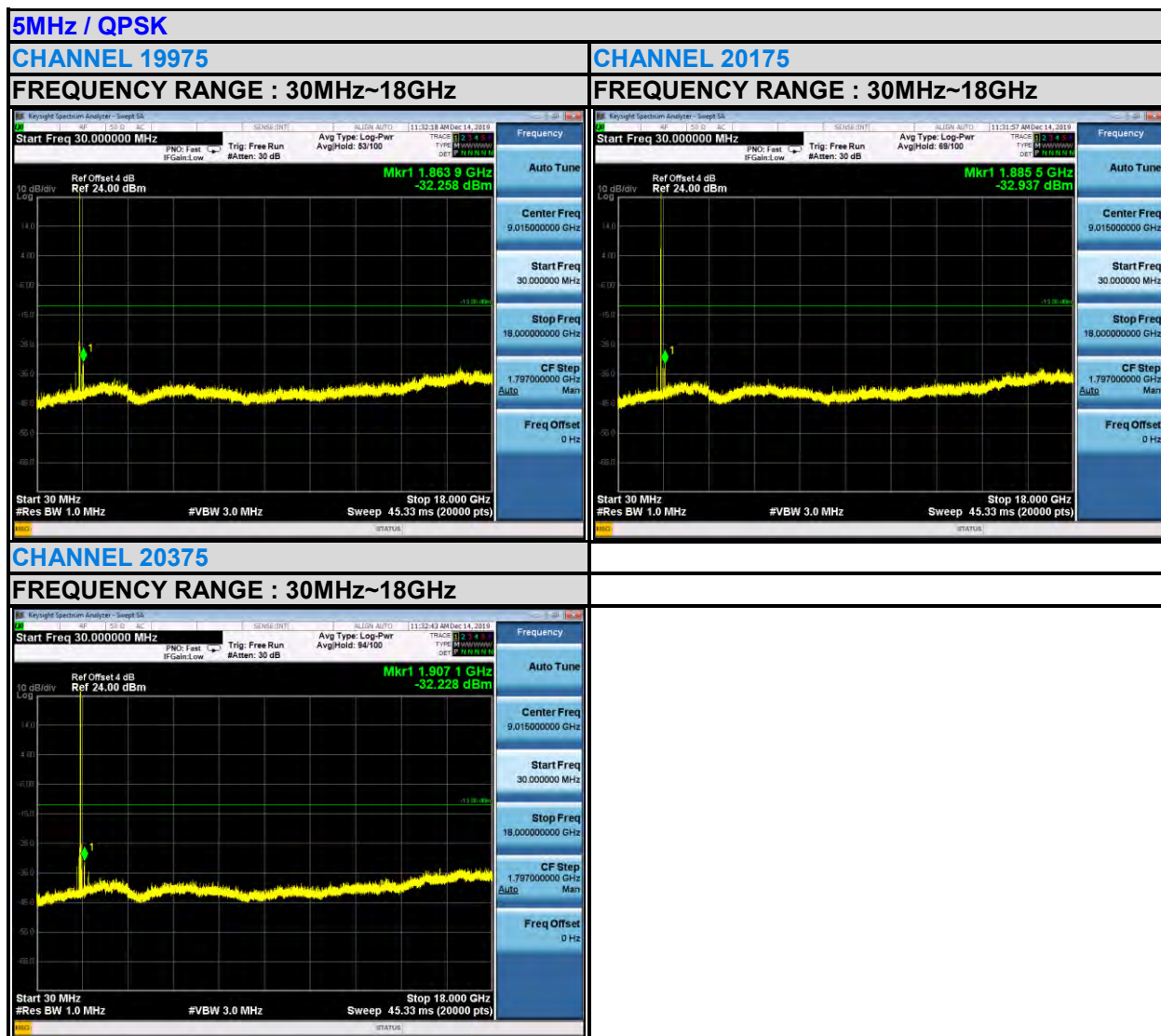




### 10MHz / QPSK

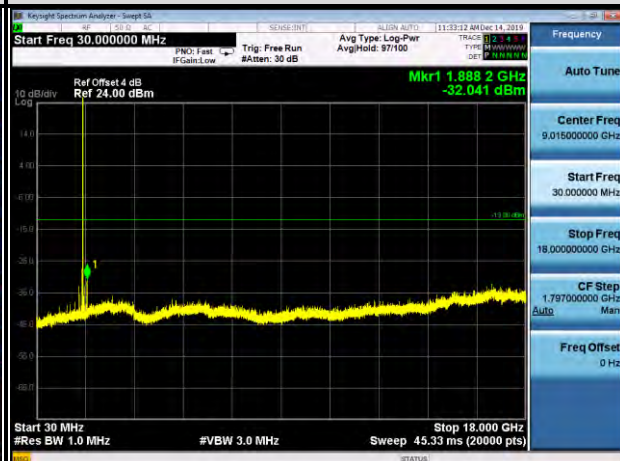
#### CHANNEL 20000

FREQUENCY RANGE : 30MHz~18GHz



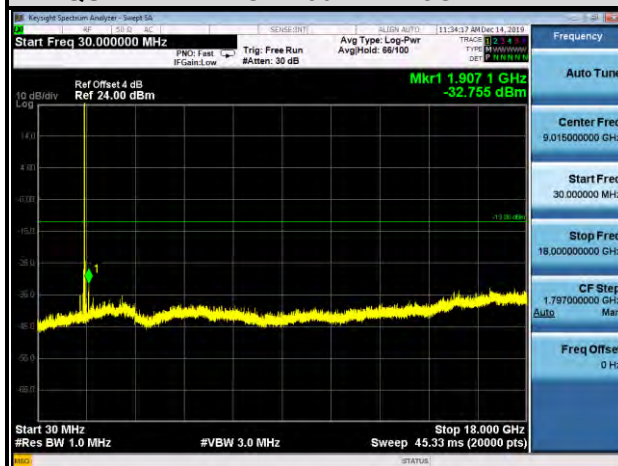
#### CHANNEL 20175

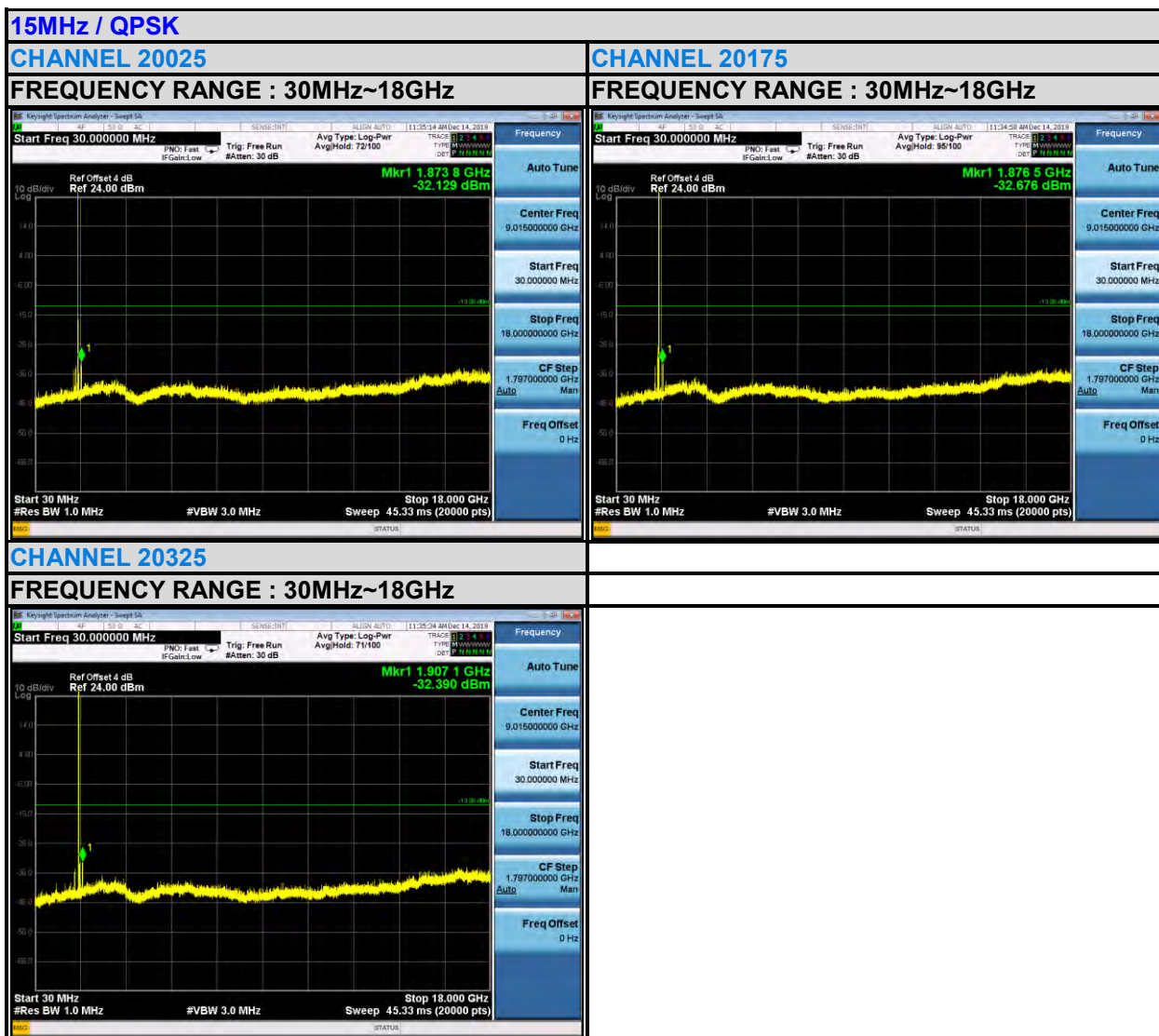
FREQUENCY RANGE : 30MHz~18GHz

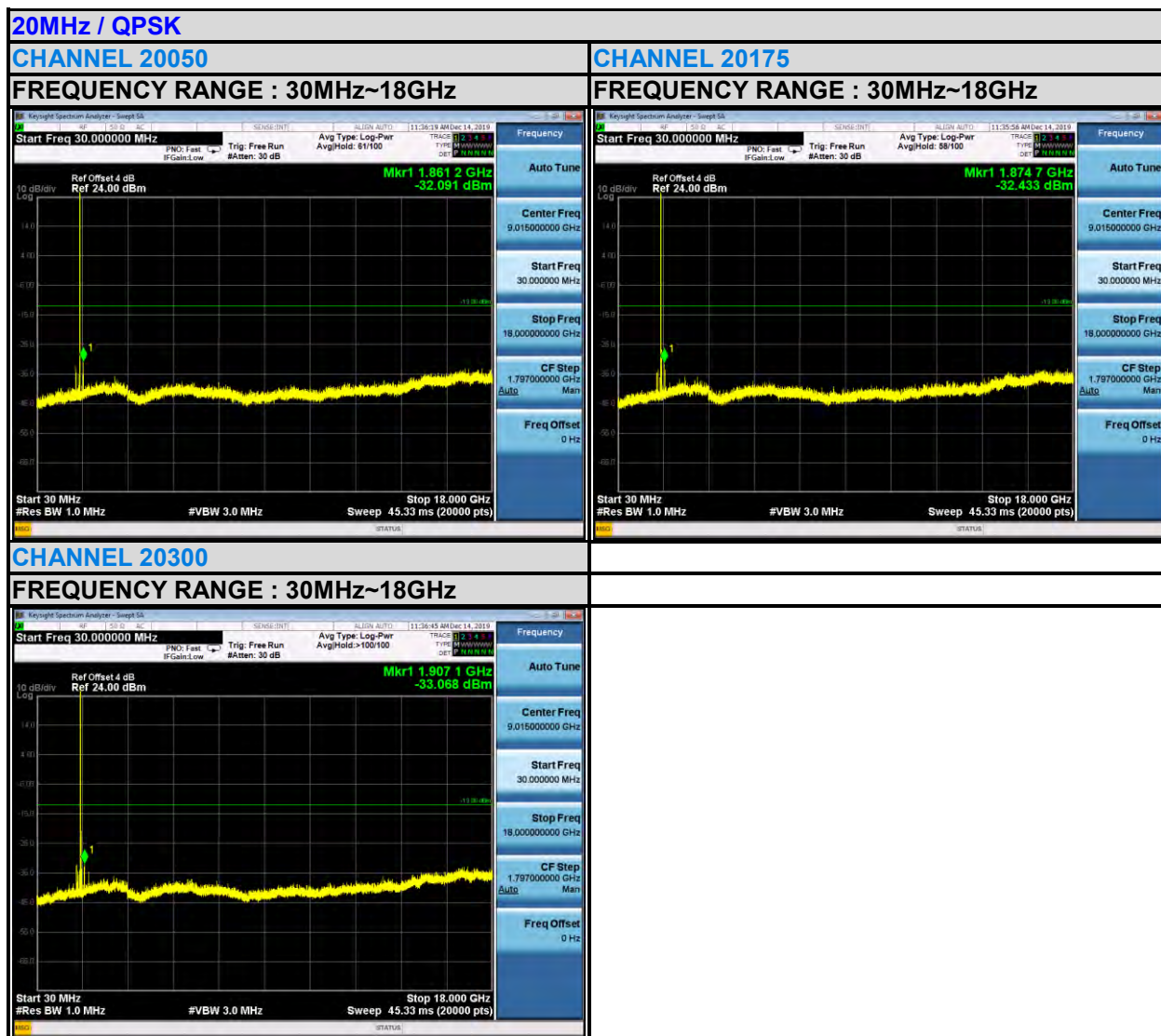


#### CHANNEL 20350

FREQUENCY RANGE : 30MHz~18GHz





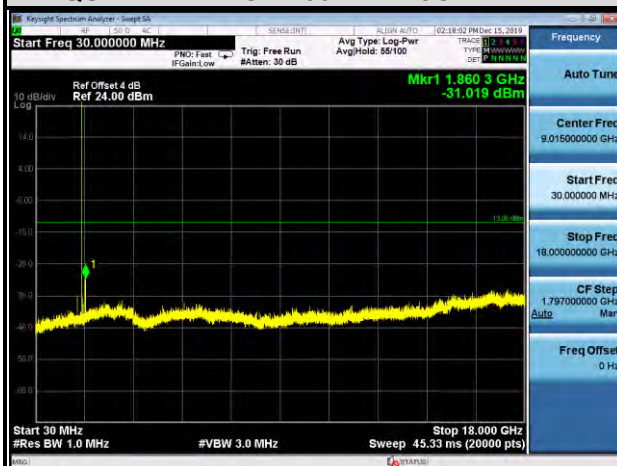


## LTE CAT-M1 BAND 66

### 1.4MHz / QPSK

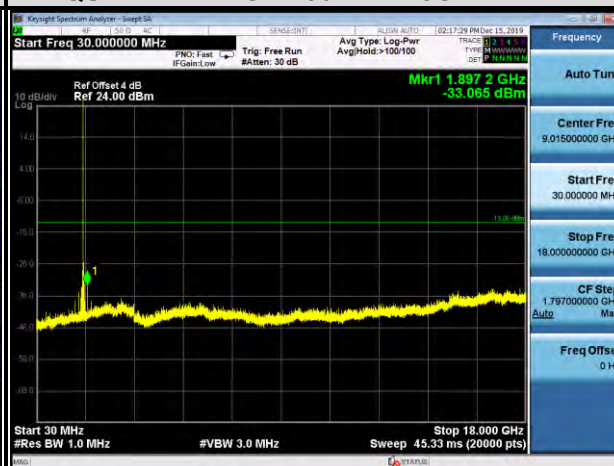
#### CHANNEL 131979

#### FREQUENCY RANGE : 30MHz~18GHz



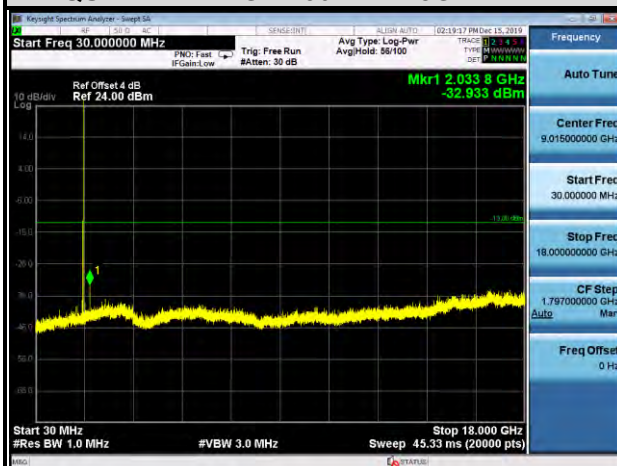
#### CHANNEL 132322

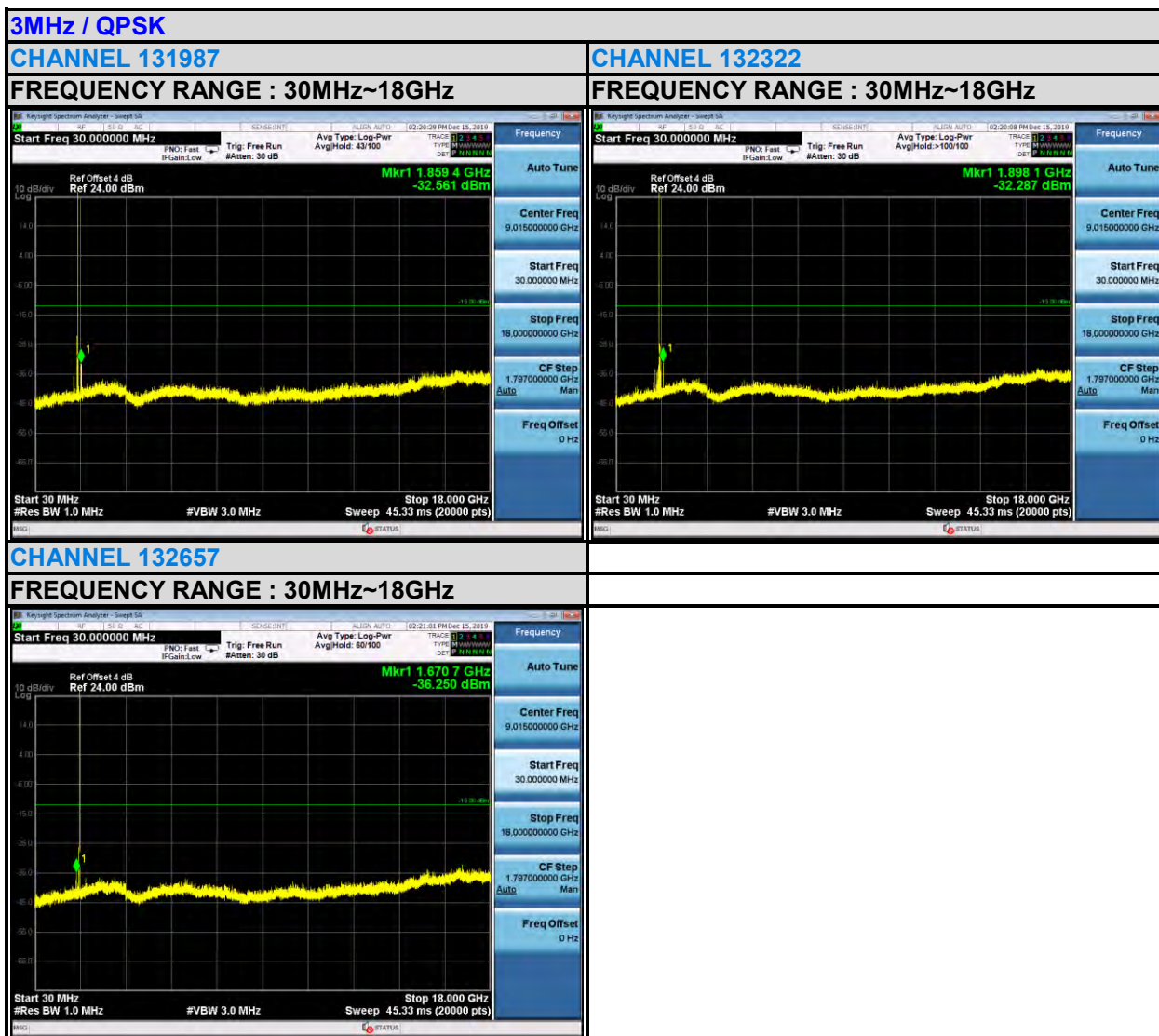
#### FREQUENCY RANGE : 30MHz~18GHz

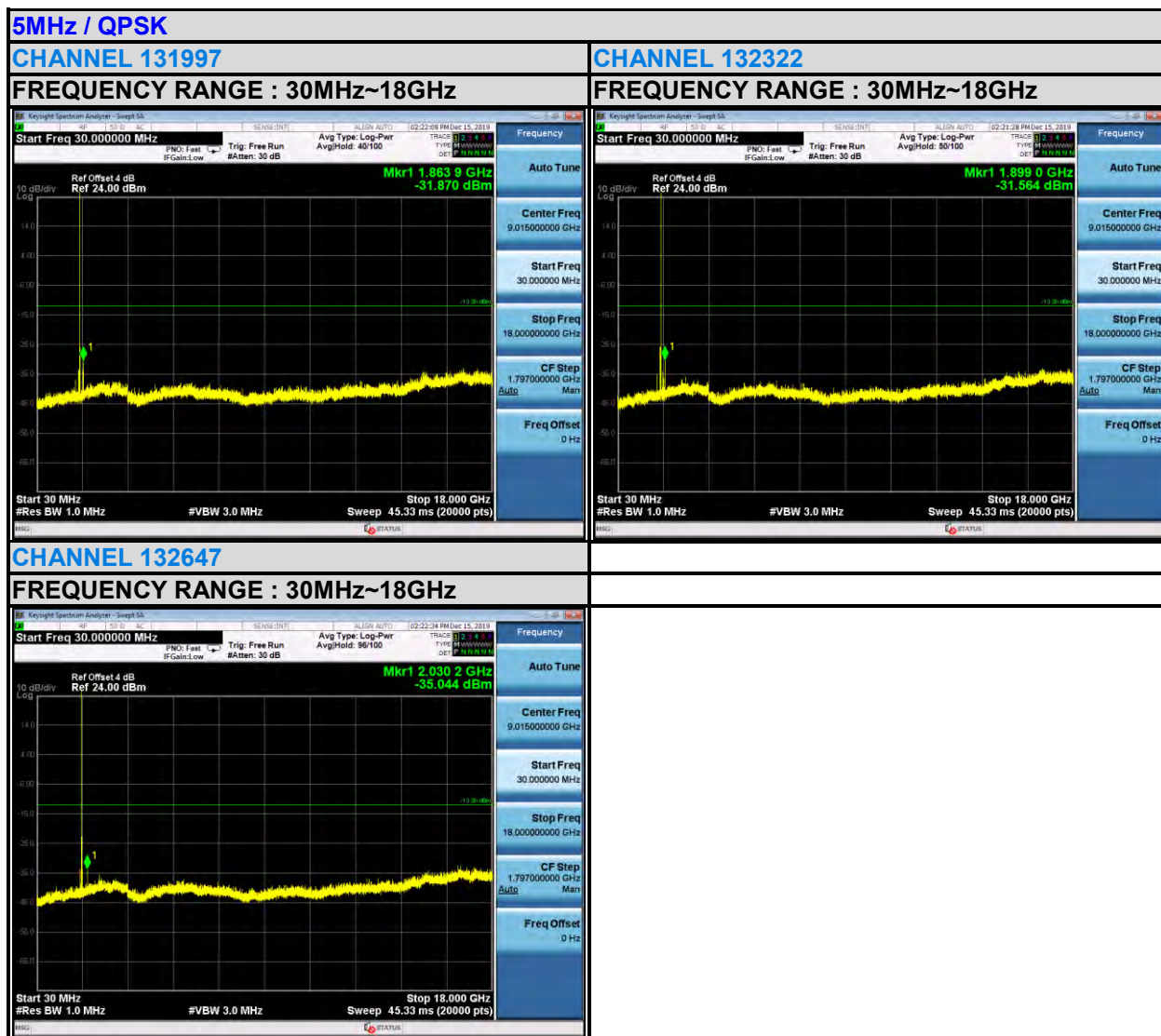


#### CHANNEL 132665

#### FREQUENCY RANGE : 30MHz~18GHz



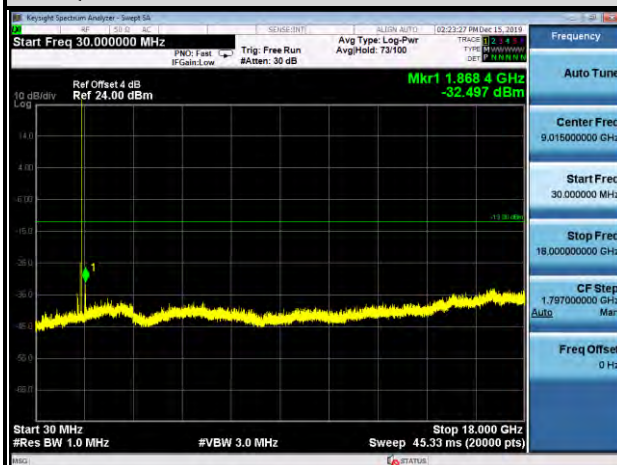




### 10MHz / QPSK

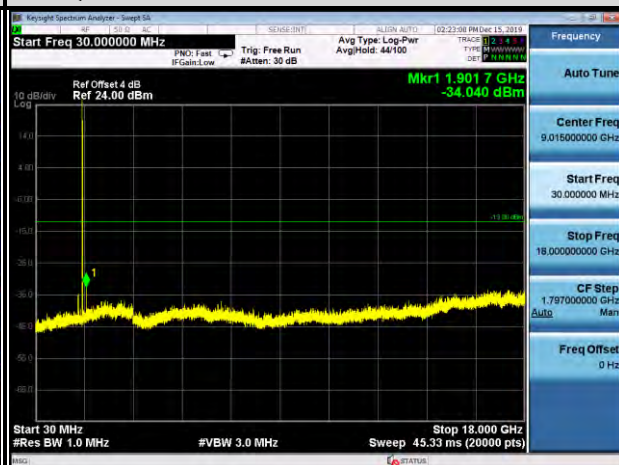
#### CHANNEL 132022

FREQUENCY RANGE : 30MHz~18GHz



#### CHANNEL 132322

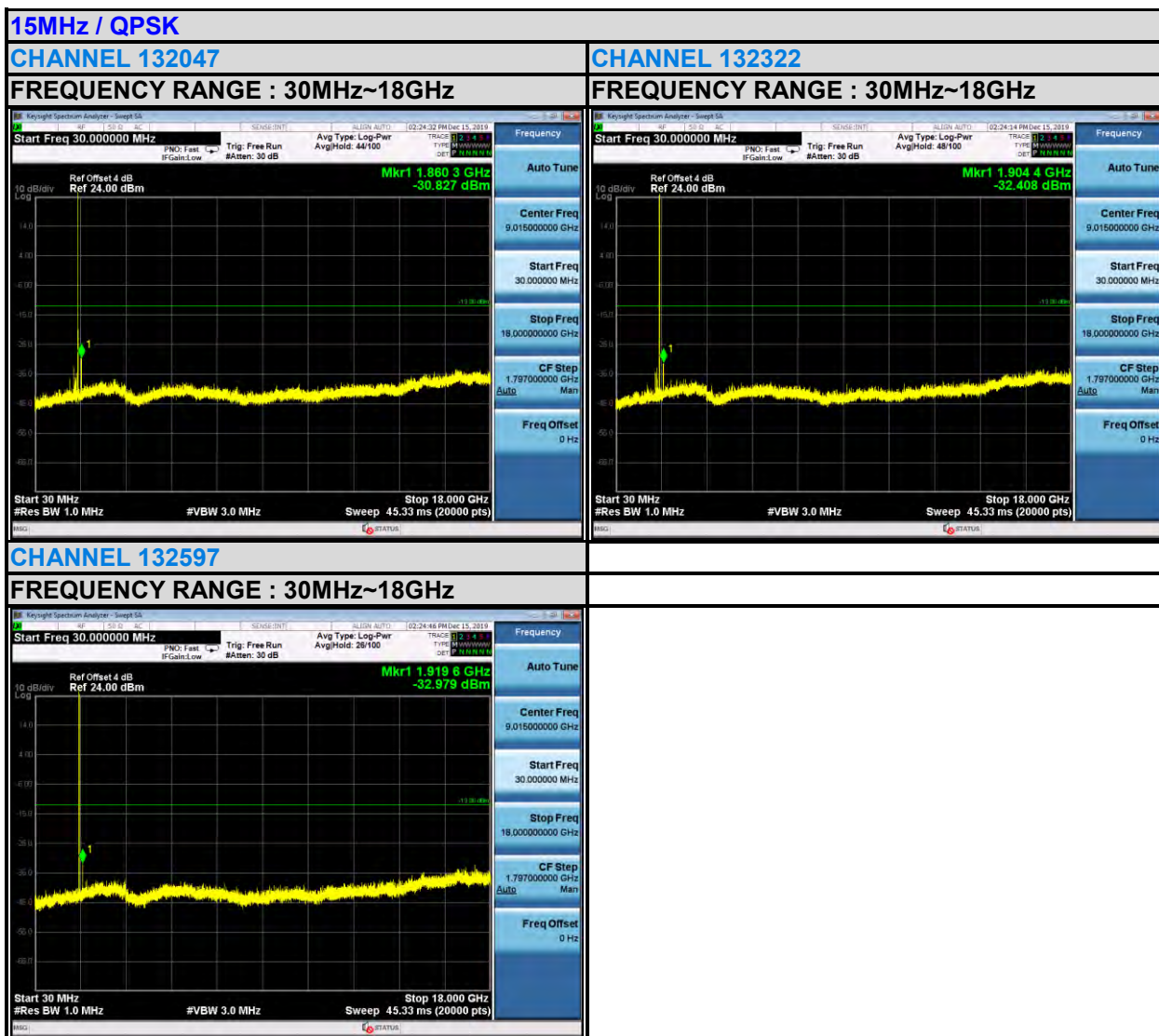
FREQUENCY RANGE : 30MHz~18GHz

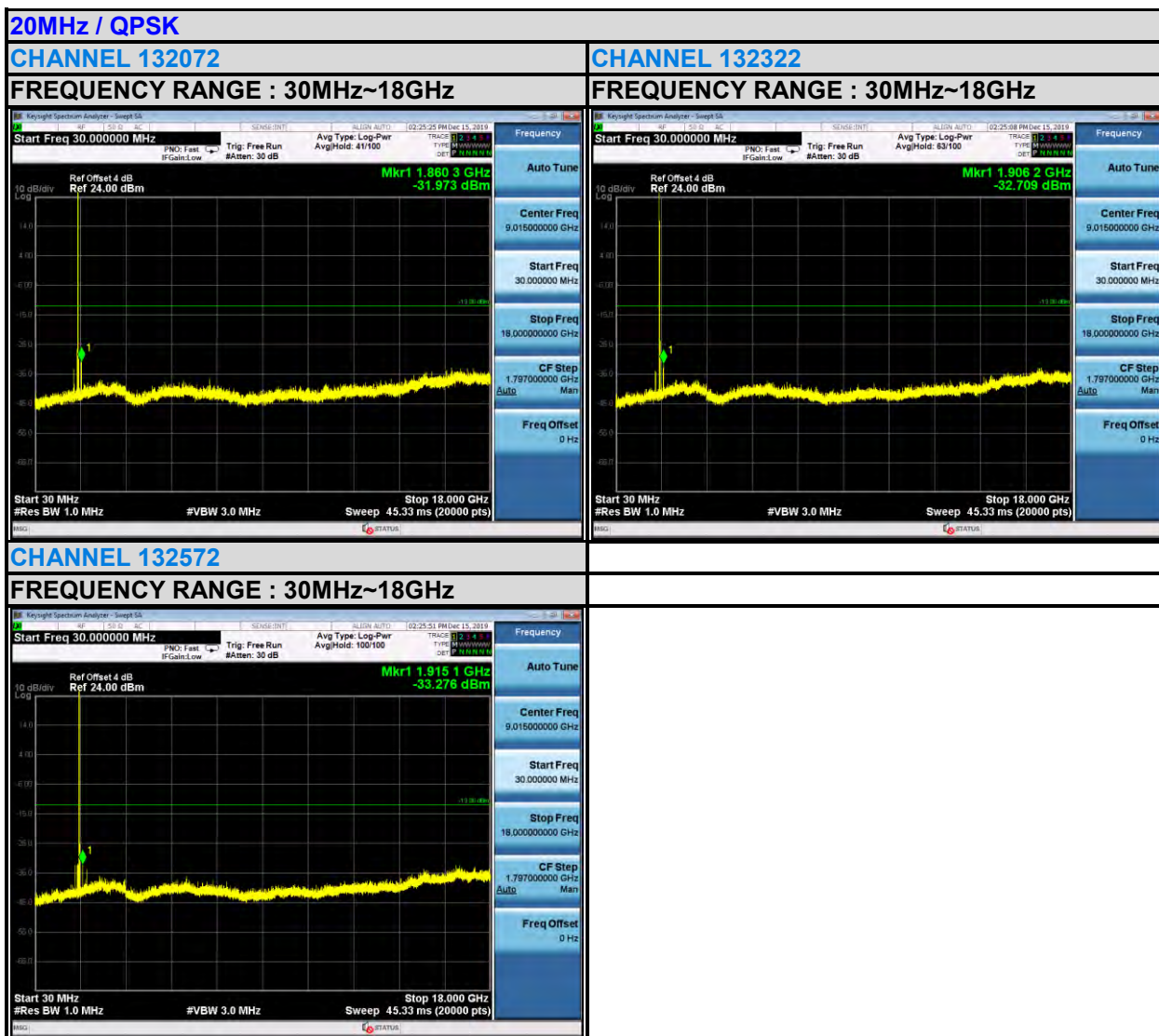


#### CHANNEL 132622

FREQUENCY RANGE : 30MHz~18GHz







### 3.7 RADIATED EMISSION MEASUREMENT

#### 3.7.1 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  $-13\text{dBm}$

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

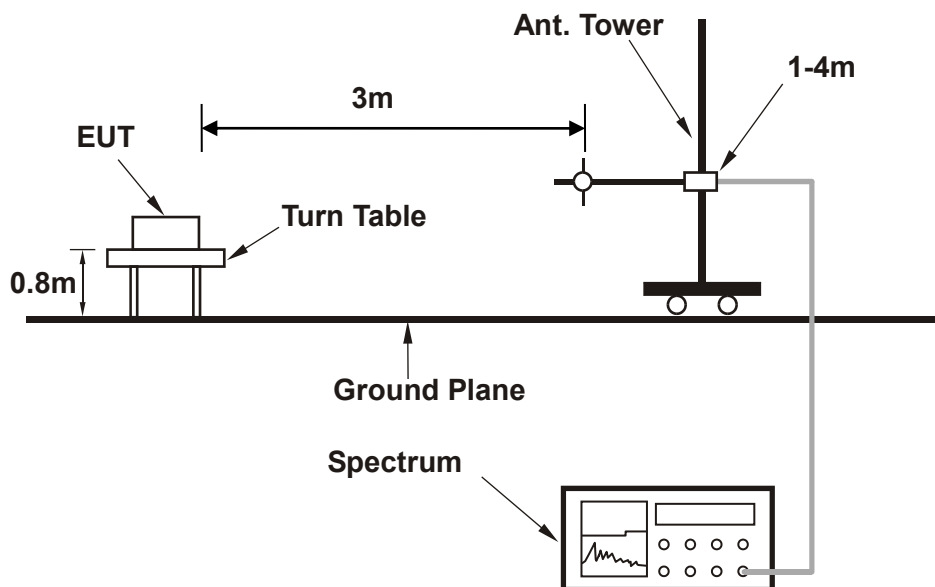
**NOTE:** The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

#### 3.7.3 DEVIATION FROM TEST STANDARD

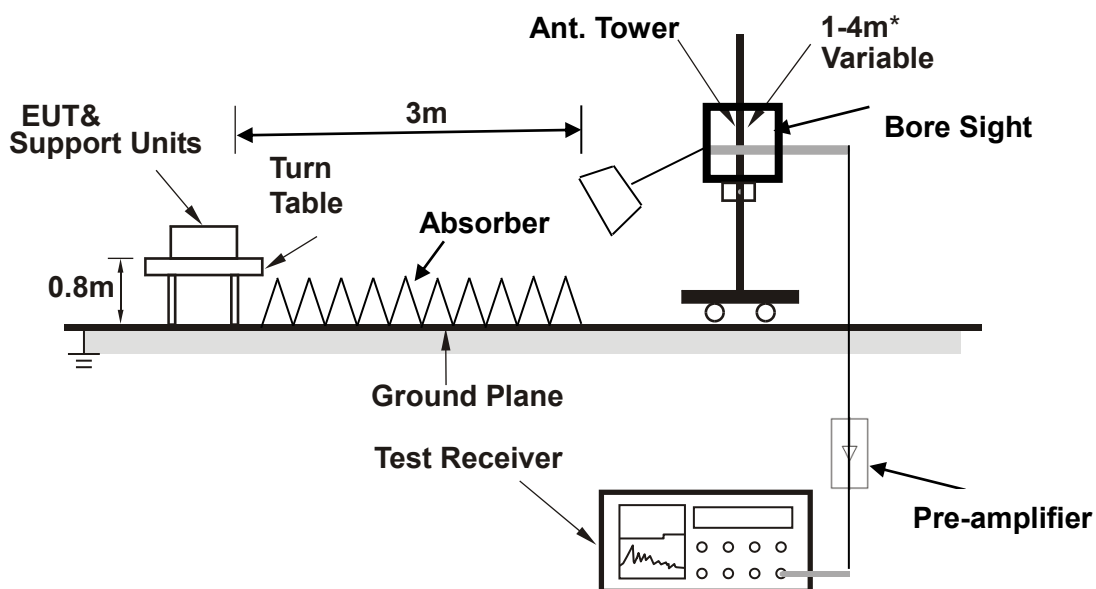
No deviation

### 3.7.4 TEST SETUP

#### < 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).

### 3.7.5 TEST RESULTS

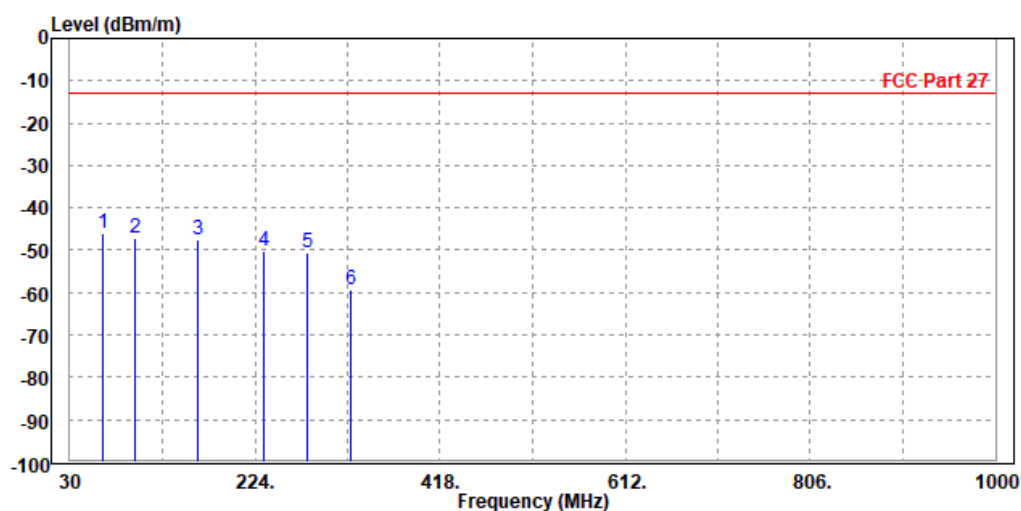
#### BELOW 1GHz WORST-CASE DATA

30 MHz – 1GHz data:

LTE CAT-M1 BAND 66

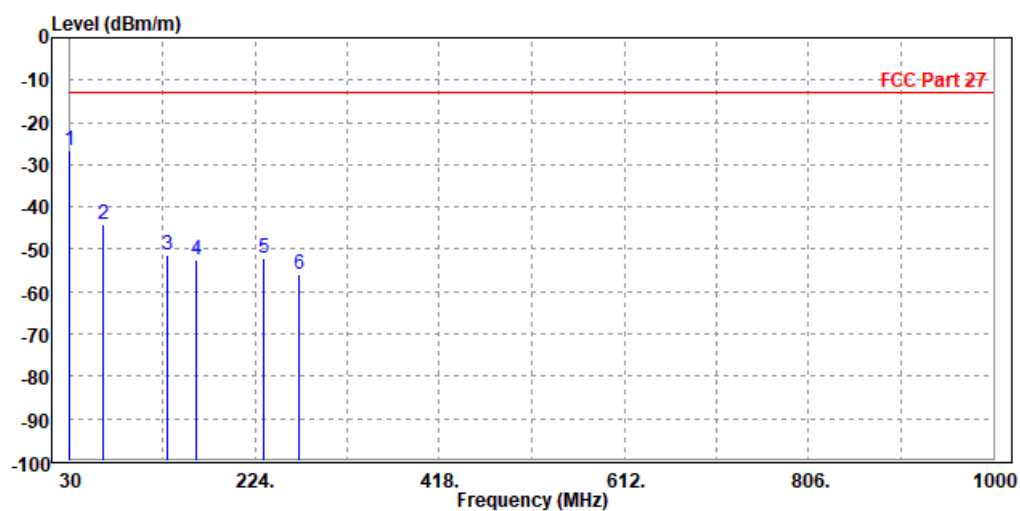
|                                                     |                   |                 |                    |
|-----------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                                | TX channel 132322 | FREQUENCY RANGE | Below 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong        |                 |                    |
| 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 | 64.920  | -45.84 | -37.25     | -13.00     | -32.84     | -8.59  | Peak   | Horizontal |
| 2 |    | 98.870  | -47.24 | -37.64     | -13.00     | -34.24     | -9.60  | Peak   | Horizontal |
| 3 |    | 163.860 | -47.46 | -30.80     | -13.00     | -34.46     | -16.66 | Peak   | Horizontal |
| 4 |    | 232.730 | -50.23 | -35.57     | -13.00     | -37.23     | -14.66 | Peak   | Horizontal |
| 5 |    | 278.320 | -50.60 | -37.86     | -13.00     | -37.60     | -12.74 | Peak   | Horizontal |
| 6 |    | 324.880 | -59.32 | -48.66     | -13.00     | -46.32     | -10.66 | Peak   | Horizontal |



|                                                   |                   |                 |                    |
|---------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                              | TX channel 132322 | FREQUENCY RANGE | Below 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong        |                 |                    |
| 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 | 30.000  | -26.57 | -32.67     | -13.00     | -13.57     | 6.10   | Peak   | Vertical  |
| 2    | 64.920  | -44.02 | -31.20     | -13.00     | -31.02     | -12.82 | Peak   | Vertical  |
| 3    | 131.850 | -51.32 | -40.79     | -13.00     | -38.32     | -10.53 | Peak   | Vertical  |
| 4    | 162.890 | -52.61 | -39.32     | -13.00     | -39.61     | -13.29 | Peak   | Vertical  |
| 5    | 232.730 | -51.99 | -42.73     | -13.00     | -38.99     | -9.26  | Peak   | Vertical  |
| 6    | 270.560 | -55.89 | -46.57     | -13.00     | -42.89     | -9.32  | Peak   | Vertical  |





Test Report No.: RF191122W002-3

## ABOVE 1GHz

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

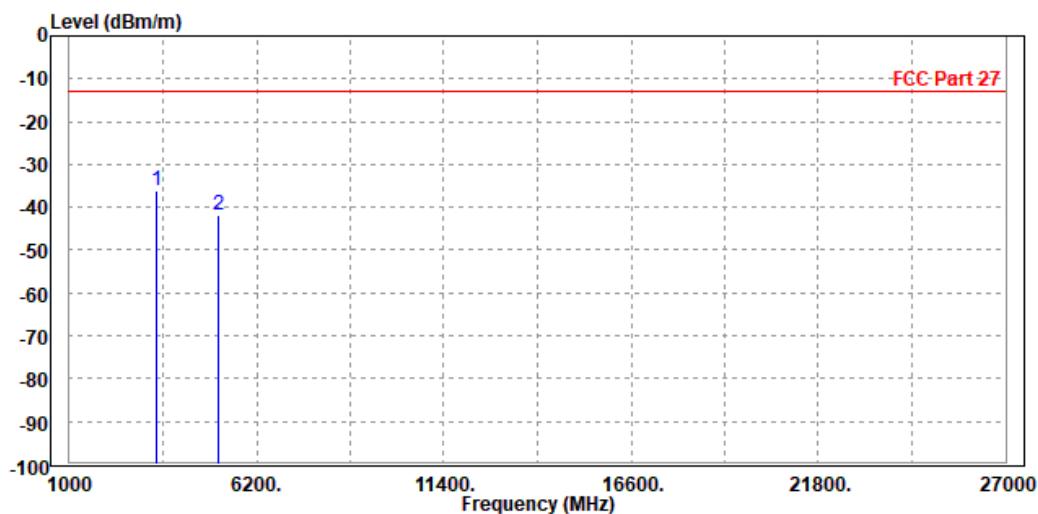
## LTE CAT-M1 BAND 4

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH 19957

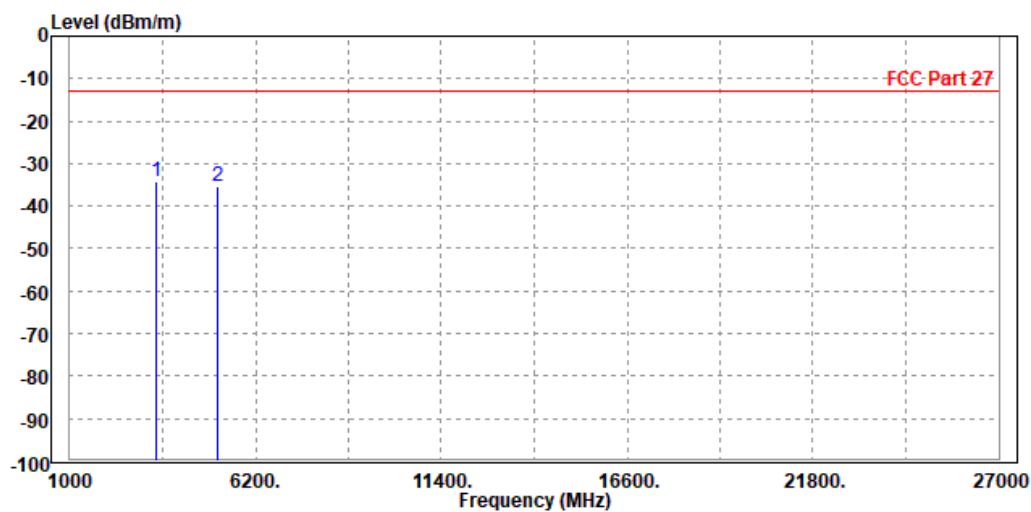
|                                                     |                  |                 |                    |
|-----------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                                | TX channel 19957 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong       |                 |                    |
| 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 | 3418.000 | -36.21 | -44.80     | -13.00     | -23.21     | 8.59   | Peak   | Horizontal |
| 2    | 5132.100 | -41.99 | -50.91     | -13.00     | -28.99     | 8.92   | Peak   | Horizontal |



|                                                   |                  |                 |                    |
|---------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                              | TX channel 19957 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong       |                 |                    |
| 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 | 3418.000 | -34.26 | -43.37     | -13.00     | -21.26     | 9.11   | Peak   | Vertical  |
| 2 |    | 5132.100 | -35.24 | -45.09     | -13.00     | -22.24     | 9.85   | Peak   | Vertical  |



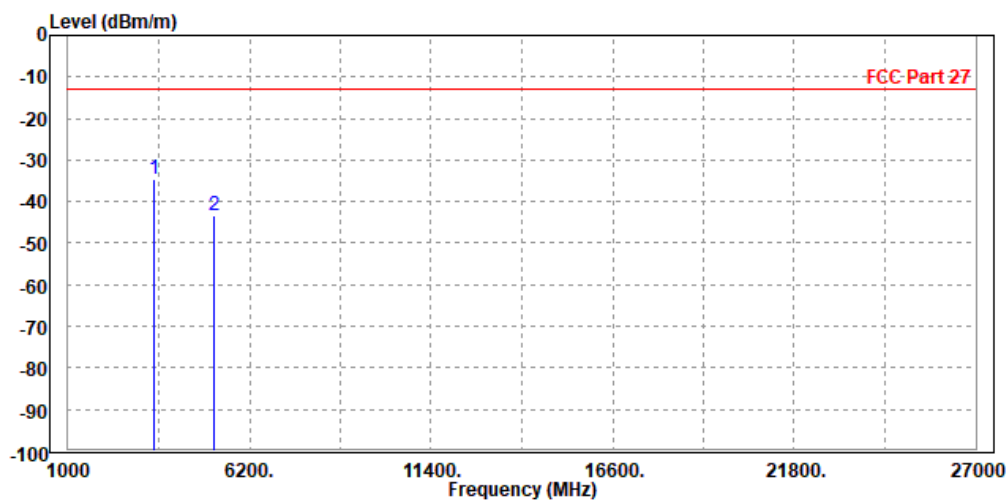


Test Report No.: RF191122W002-3

CH 20175

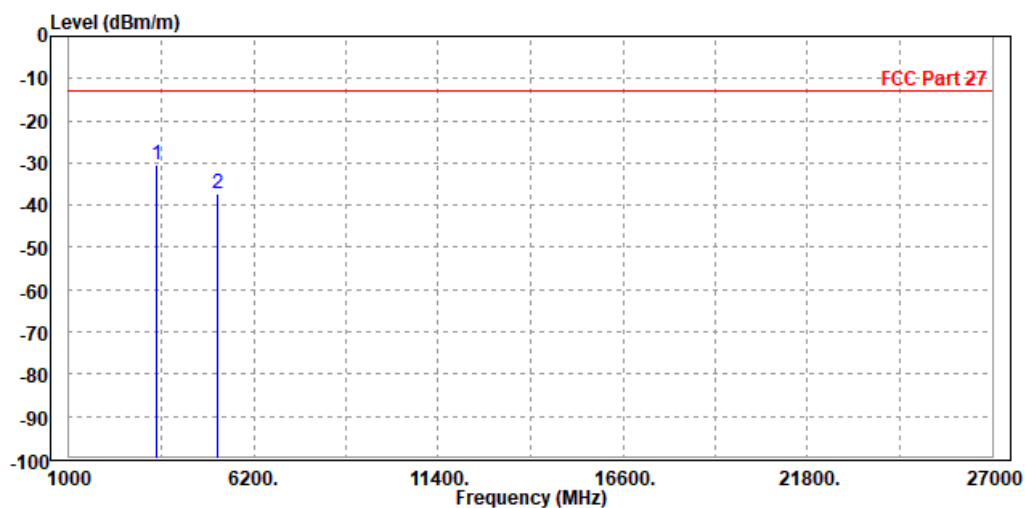
|                                                     |                  |                 |                    |
|-----------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                                | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong       |                 |                    |
| 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 | 3470.000 | -34.76 | -43.34     | -13.00     | -21.76     | 8.58   | Peak   | Horizontal |
| 2    | 5197.500 | -43.29 | -52.41     | -13.00     | -30.29     | 9.12   | Peak   | Horizontal |



|                                                   |                  |                 |                    |
|---------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                              | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong       |                 |                    |
| 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 | 3470.000 | -30.40 | -39.56     | -13.00     | -17.40     | 9.16   | Peak   | Vertical  |
| 2 |    | 5197.500 | -37.38 | -47.20     | -13.00     | -24.38     | 9.82   | Peak   | Vertical  |



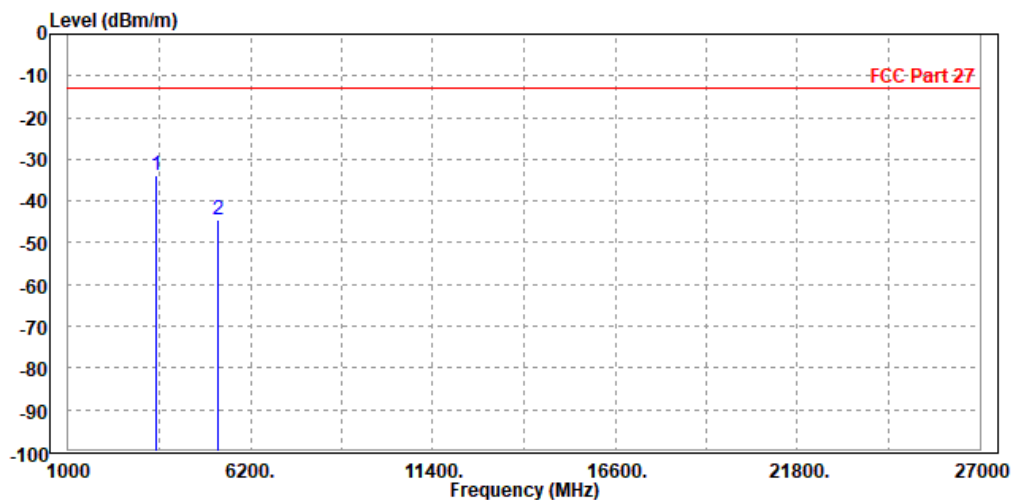


Test Report No.: RF191122W002-3

CH 20393

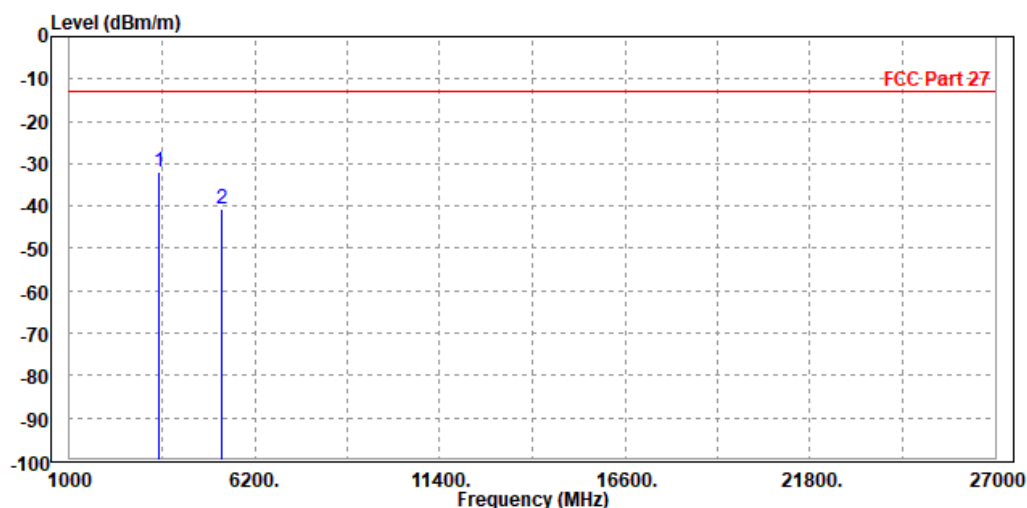
|                                                     |                  |                 |                    |
|-----------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                                | TX channel 20393 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong       |                 |                    |
| 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 | 3496.000 | -33.73 | -42.30     | -13.00     | -20.73     | 8.57   | Peak   | Horizontal |
| 2 |    | 5262.900 | -44.46 | -53.77     | -13.00     | -31.46     | 9.31   | Peak   | Horizontal |



|                                                   |                  |                 |                    |
|---------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                              | TX channel 20393 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong       |                 |                    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |                    |

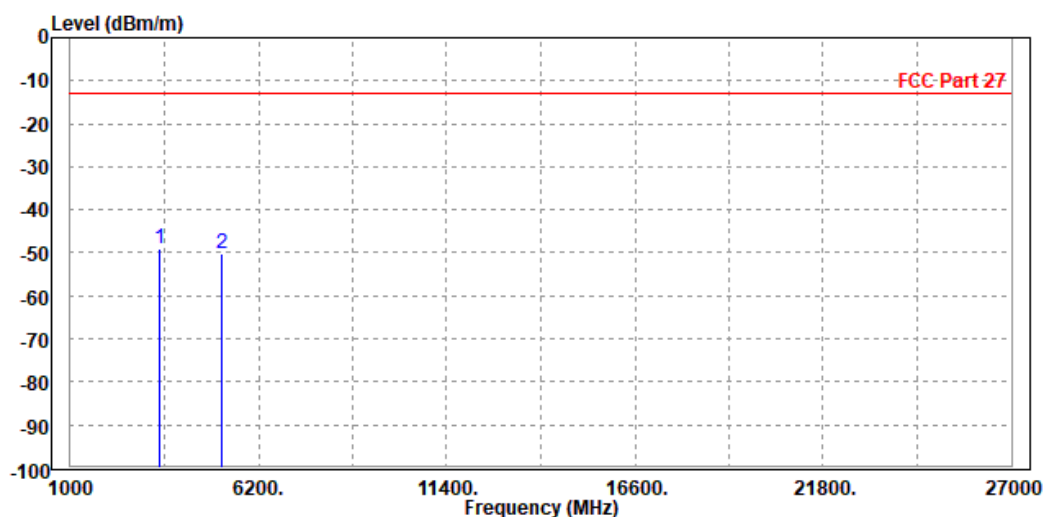
|   |    | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|----|----------|--------|------------|------------|------------|--------|--------|-----------|
|   |    | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 | PP | 3496.000 | -32.06 | -41.25     | -13.00     | -19.06     | 9.19   | Peak   | Vertical  |
| 2 |    | 5264.000 | -40.69 | -50.49     | -13.00     | -27.69     | 9.80   | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 3MHz / QPSK**

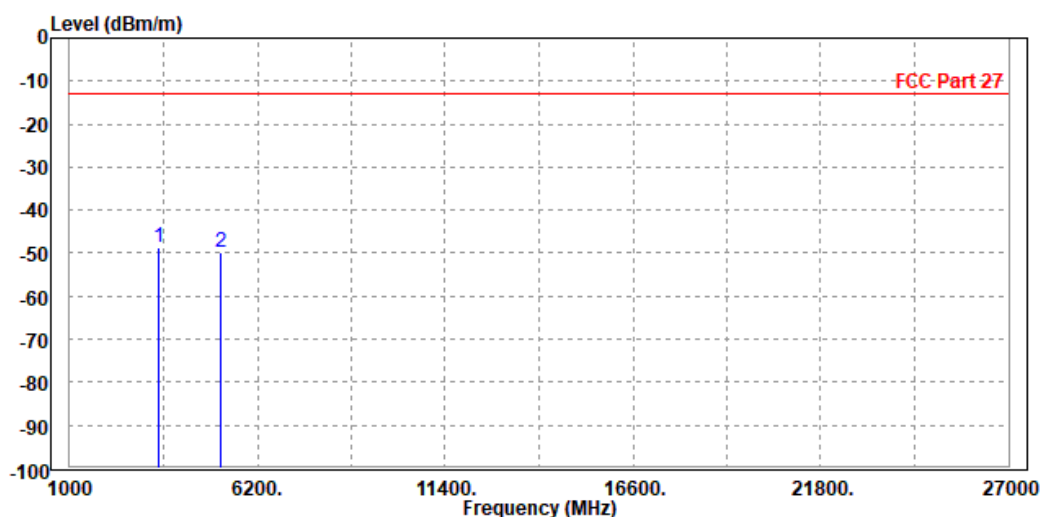
|                                                     |                  |                 |                    |
|-----------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                                | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong       |                 |                    |
| 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 3470.000 | -48.88 | -57.46     | -13.00     | -35.88     | 8.58   | Peak   | Horizontal |
| 2 | 5197.500    | -50.27 | -59.39     | -13.00     | -37.27     | 9.12   | Peak   | Horizontal |



|                                                   |                  |                 |                    |
|---------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                              | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong       |                 |                    |
| 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 | 3470.000 | -48.66 | -57.82     | -13.00     | -35.66     | 9.16   | Peak   | Vertical  |
| 2 |    | 5197.500 | -49.89 | -59.71     | -13.00     | -36.89     | 9.82   | Peak   | Vertical  |



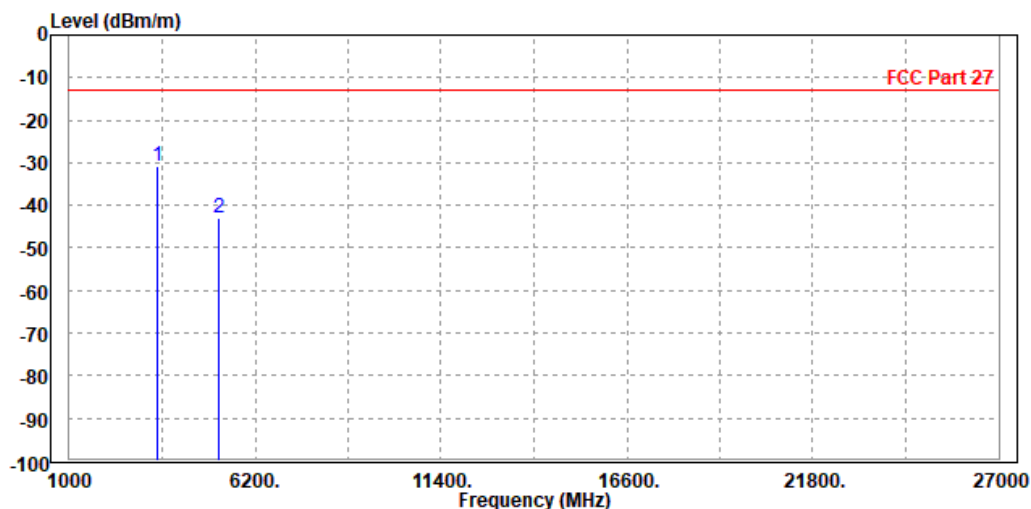


Test Report No.: RF191122W002-3

CHANNEL BANDWIDTH: 5MHz / QPSK

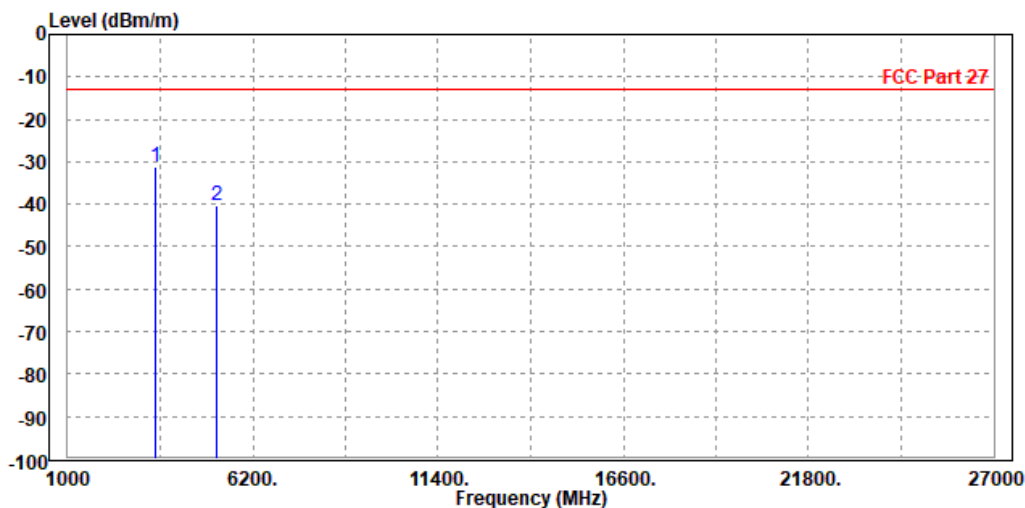
|                                                     |                  |                 |                    |
|-----------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                                | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong       |                 |                    |
| 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 | 3470.000 | -30.72 | -39.30     | -13.00     | -17.72     | 8.58   | Peak   | Horizontal |
| 2 |    | 5197.500 | -42.90 | -52.02     | -13.00     | -29.90     | 9.12   | Peak   | Horizontal |



|                                                   |                  |                 |                    |
|---------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                              | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong       |                 |                    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |                    |

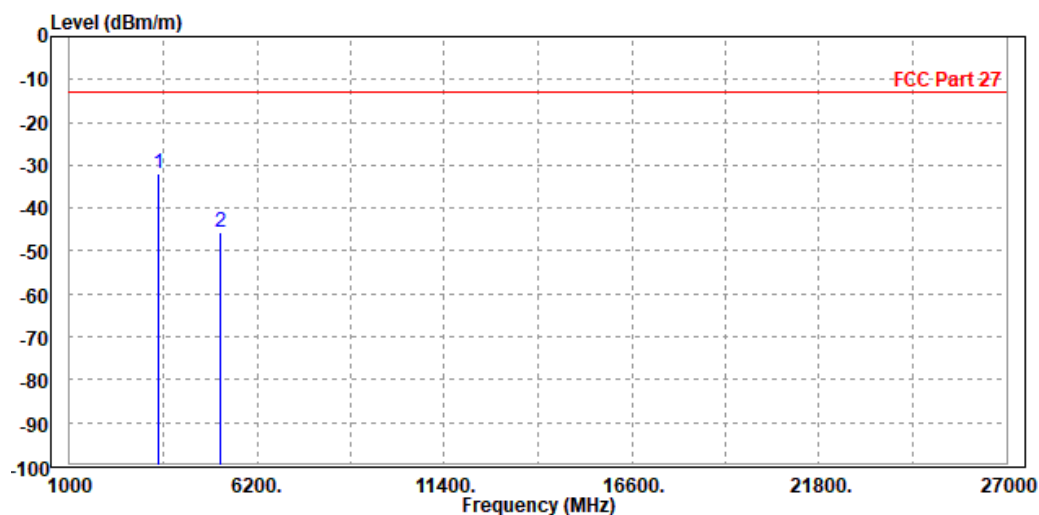
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 PP | 3470.000 | -31.27 | -40.43     | -13.00     | -18.27     | 9.16   | Peak   | Vertical  |
| 2    | 5197.500 | -40.49 | -50.31     | -13.00     | -27.49     | 9.82   | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 10MHz / QPSK**

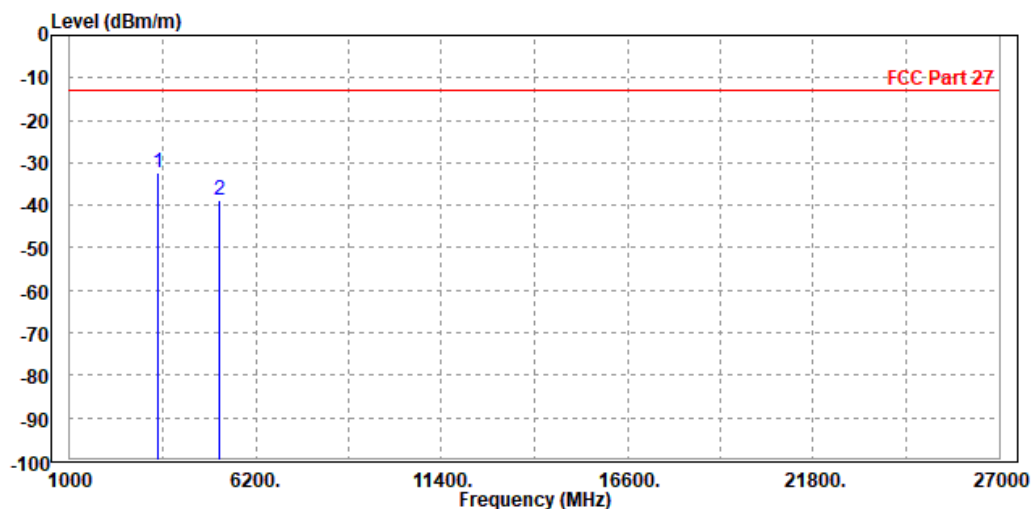
|                                                     |                  |                 |                    |
|-----------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                                | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong       |                 |                    |
| 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 3470.000 | -31.95 | -40.53     | -13.00     | -18.95     | 8.58   | Peak   | Horizontal |
| 2 | 5197.500    | -45.64 | -54.76     | -13.00     | -32.64     | 9.12   | Peak   | Horizontal |



|                                                   |                  |                 |                    |
|---------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                              | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong       |                 |                    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |                    |

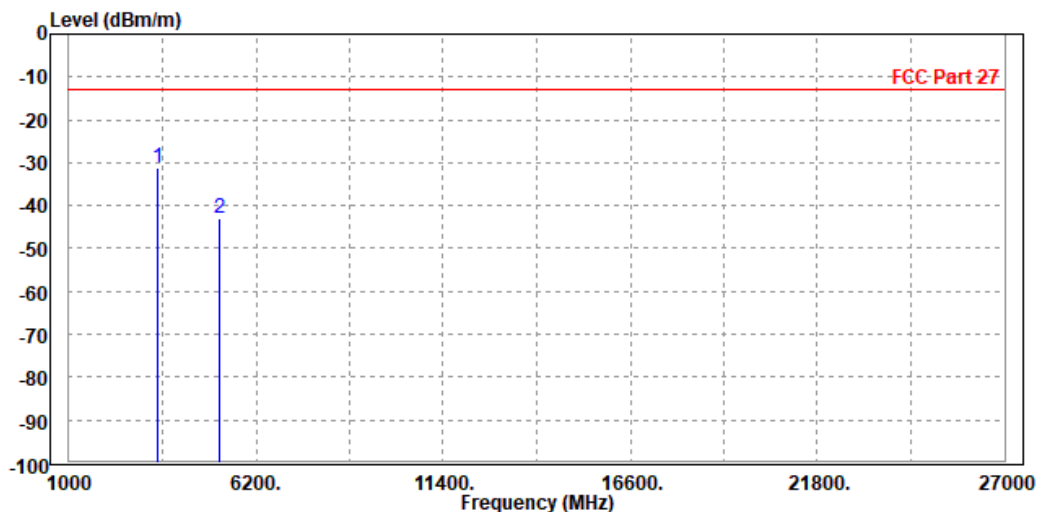
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 PP | 3470.000 | -32.34 | -41.50     | -13.00     | -19.34     | 9.16   | Peak   | Vertical  |
| 2    | 5197.500 | -38.69 | -48.51     | -13.00     | -25.69     | 9.82   | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 15MHz / QPSK**

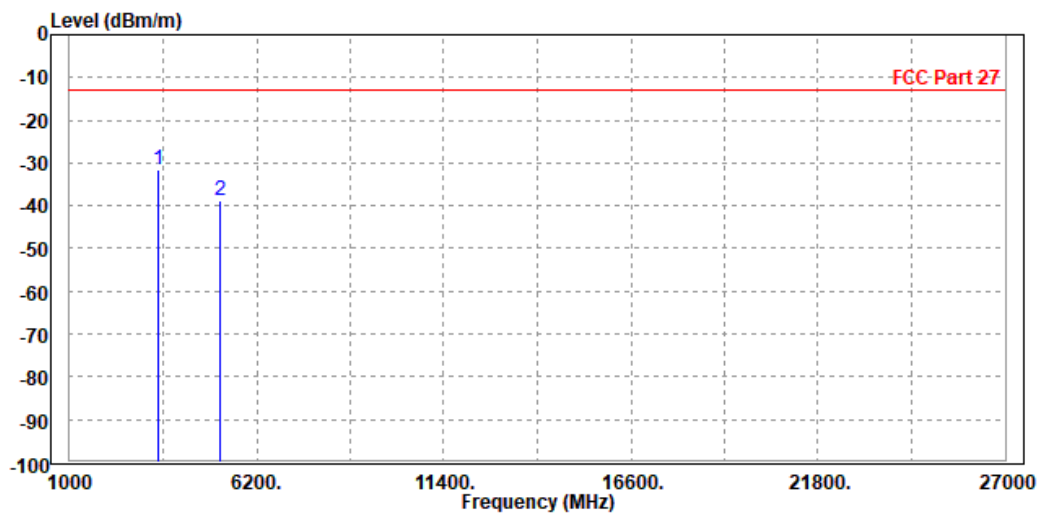
|                                                     |                  |                 |                    |
|-----------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                                | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong       |                 |                    |
| 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 | 3470.000 | -31.21 | -39.79     | -13.00     | -18.21     | 8.58   | Peak   | Horizontal |
| 2 |    | 5197.500 | -43.03 | -52.15     | -13.00     | -30.03     | 9.12   | Peak   | Horizontal |



|                                                   |                  |                 |                    |
|---------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                              | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong       |                 |                    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |                    |

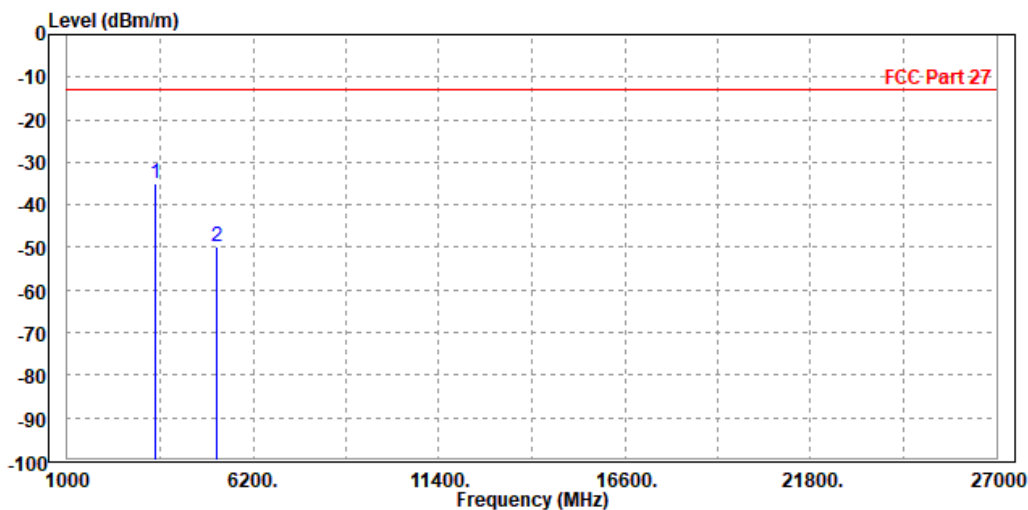
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 PP | 3470.000 | -31.66 | -40.82     | -13.00     | -18.66     | 9.16   | Peak   | Vertical  |
| 2    | 5197.500 | -38.97 | -48.79     | -13.00     | -25.97     | 9.82   | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 20MHz / QPSK**

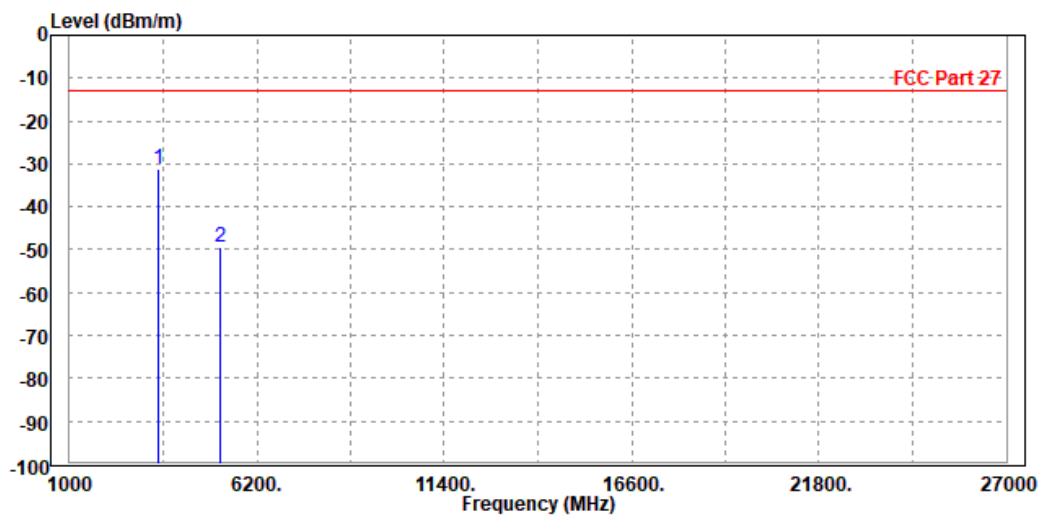
|                                                     |                  |                 |                    |
|-----------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                                | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong       |                 |                    |
| 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 3470.000 | -34.83 | -43.41     | -13.00     | -21.83     | 8.58   | Peak   | Horizontal |
| 2 | 5197.500    | -49.79 | -58.91     | -13.00     | -36.79     | 9.12   | Peak   | Horizontal |



|                                                   |                  |                 |                    |
|---------------------------------------------------|------------------|-----------------|--------------------|
| MODE                                              | TX channel 20175 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong       |                 |                    |
| 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 | 3470.000 | -31.06 | -40.22     | -13.00     | -18.06     | 9.16   | Peak   | Vertical  |
| 2 |    | 5197.500 | -49.38 | -59.20     | -13.00     | -36.38     | 9.82   | Peak   | Vertical  |





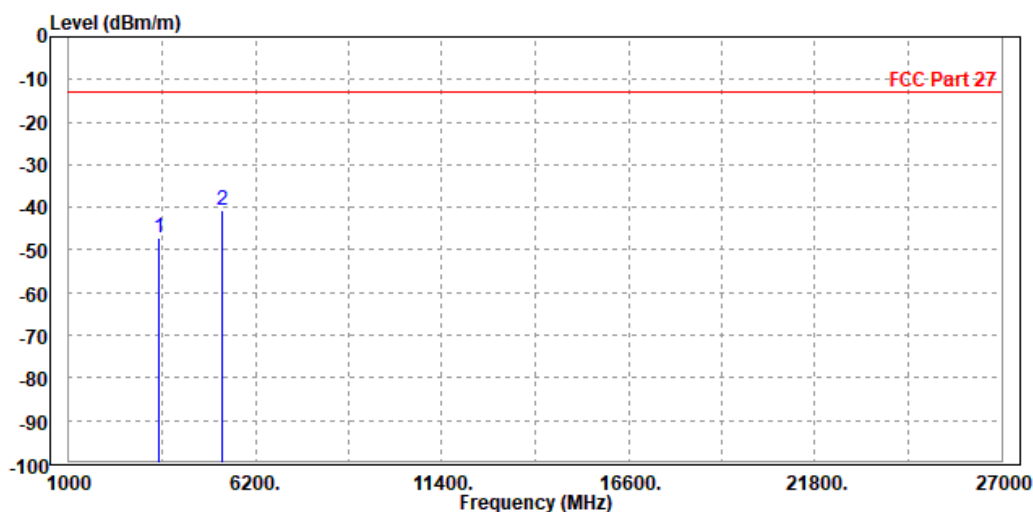
Test Report No.: RF191122W002-3

LTE CAT-M1 BAND 66

CHANNEL BANDWIDTH: 1.4MHz / QPSK

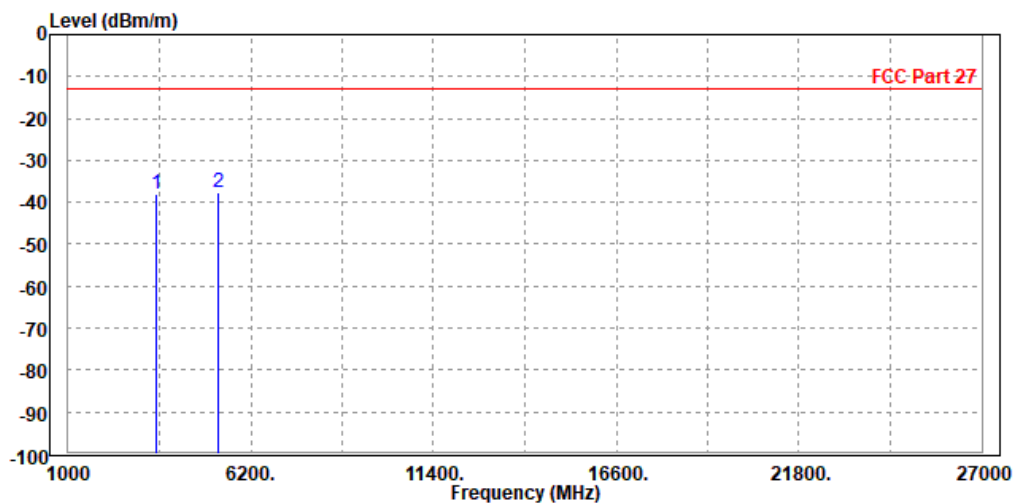
|                                                     |                   |                 |                    |
|-----------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                                | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong        |                 |                    |
| 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    | 3522.000 | -47.10 | -55.70     | -13.00     | -34.10     | 8.60   | Peak   | Horizontal |
| 2 PP | 5265.000 | -40.56 | -49.88     | -13.00     | -27.56     | 9.32   | Peak   | Horizontal |



|                                                   |                   |                 |                    |
|---------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                              | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong        |                 |                    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |                    |

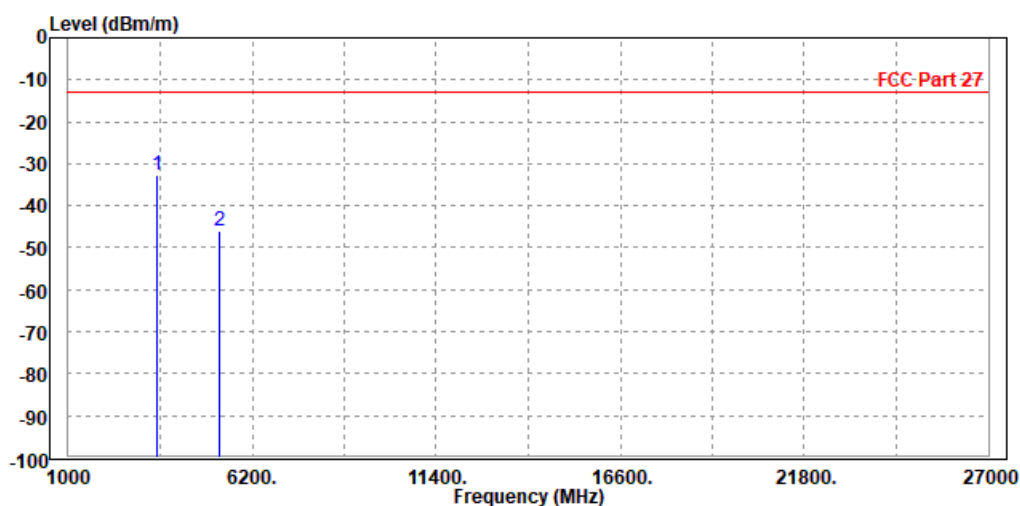
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1    | 3522.000 | -37.94 | -47.14     | -13.00     | -24.94     | 9.20   | Peak   | Vertical  |
| 2 PP | 5265.000 | -37.78 | -47.58     | -13.00     | -24.78     | 9.80   | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 3MHz / QPSK**

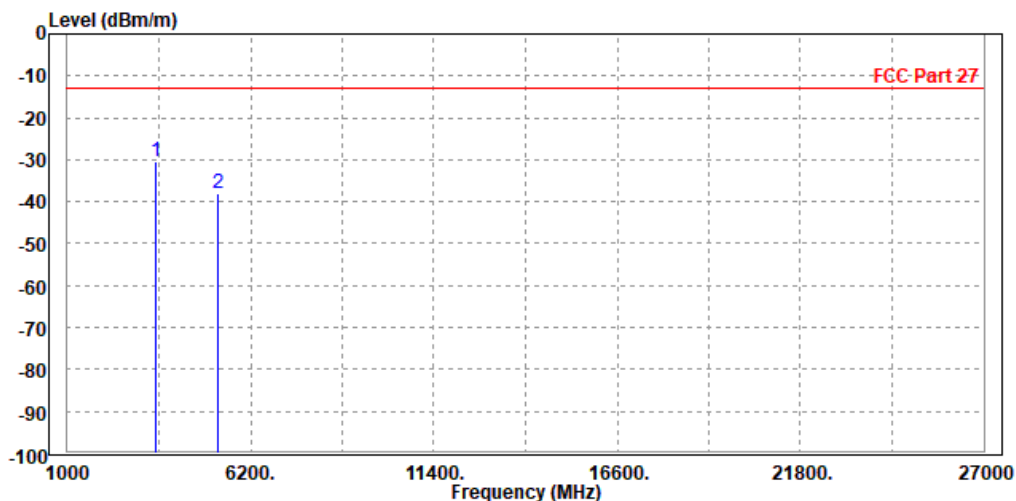
|                                                     |                   |                 |                    |
|-----------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                                | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong        |                 |                    |
| 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 | 3522.000 | -32.55 | -41.15     | -13.00     | -19.55     | 8.60   | Peak   | Horizontal |
| 2    | 5265.000 | -46.11 | -55.43     | -13.00     | -33.11     | 9.32   | Peak   | Horizontal |



|                                                   |                   |                 |                    |
|---------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                              | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong        |                 |                    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |                    |

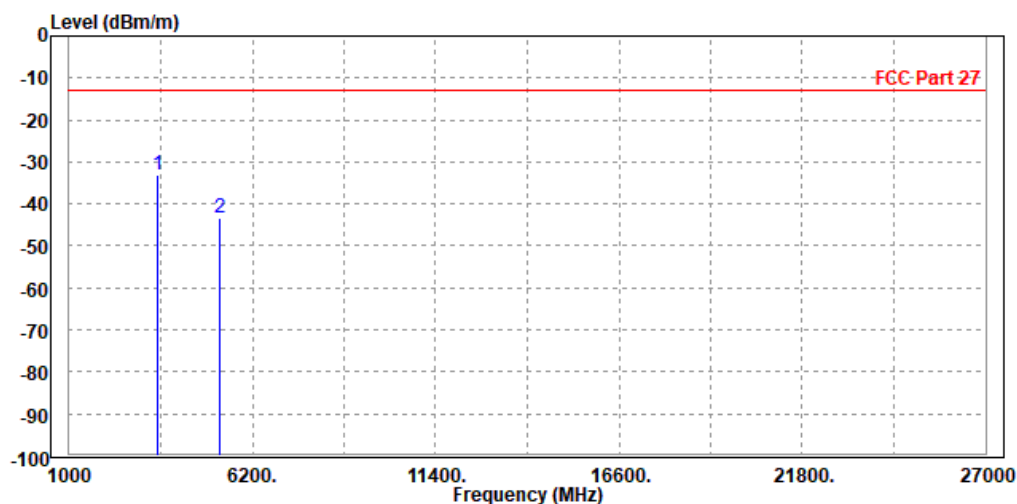
|      | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|------|----------|--------|------------|------------|------------|--------|--------|-----------|
|      | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 PP | 3522.000 | -30.53 | -39.73     | -13.00     | -17.53     | 9.20   | Peak   | Vertical  |
| 2    | 5265.000 | -37.84 | -47.64     | -13.00     | -24.84     | 9.80   | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 5MHz / QPSK**

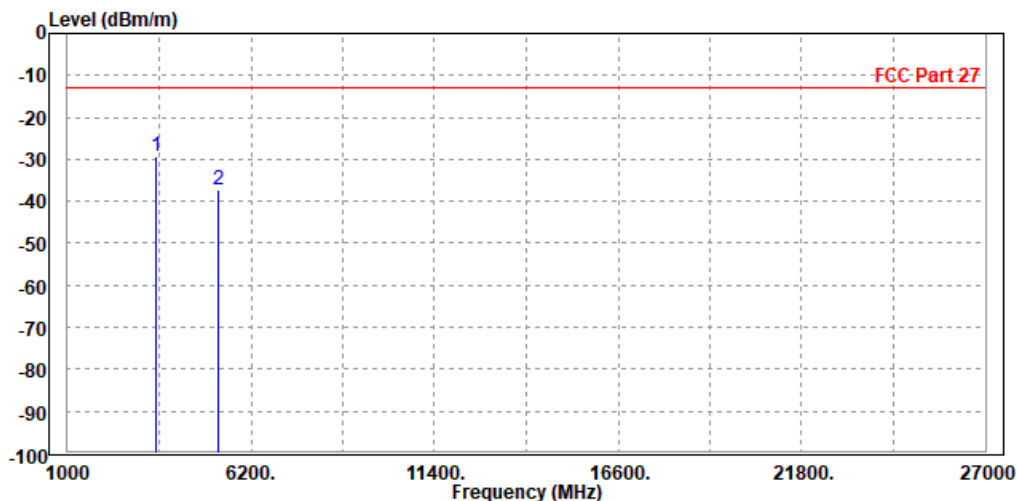
|                                                     |                   |                 |                    |
|-----------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                                | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong        |                 |                    |
| 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 | 3522.000 | -33.24 | -41.84     | -13.00     | -20.24     | 8.60   | Peak   | Horizontal |
| 2 |    | 5265.000 | -43.34 | -52.66     | -13.00     | -30.34     | 9.32   | Peak   | Horizontal |



|                                                   |                   |                 |                    |
|---------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                              | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong        |                 |                    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |                    |

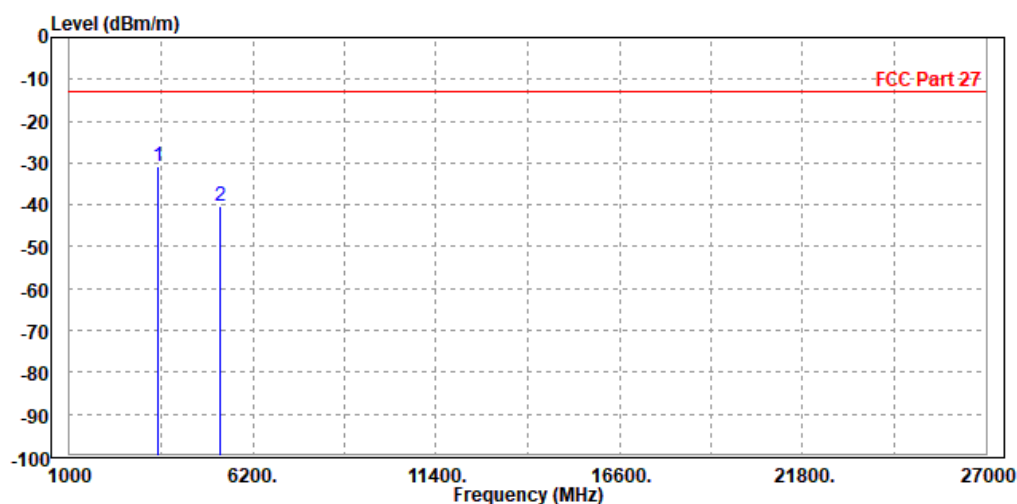
|   |    | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|----|----------|--------|------------|------------|------------|--------|--------|-----------|
|   |    | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 | PP | 3522.000 | -29.20 | -38.40     | -13.00     | -16.20     | 9.20   | Peak   | Vertical  |
| 2 |    | 5265.000 | -37.40 | -47.20     | -13.00     | -24.40     | 9.80   | Peak   | Vertical  |



**CHANNEL BANDWIDTH: 10MHz / QPSK**

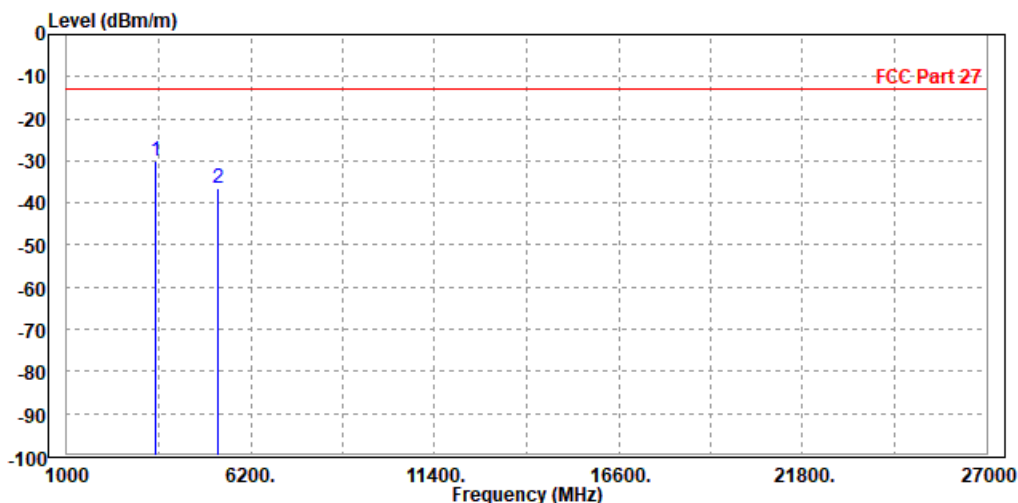
|                                                     |                   |                 |                    |
|-----------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                                | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong        |                 |                    |
| 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 | 3522.000 | -30.79 | -39.39     | -13.00     | -17.79     | 8.60   | Peak   | Horizontal |
| 2 |    | 5265.000 | -40.20 | -49.52     | -13.00     | -27.20     | 9.32   | Peak   | Horizontal |



|                                                   |                   |                 |                    |
|---------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                              | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong        |                 |                    |
| 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 | 3522.000 | -30.05 | -39.25     | -13.00     | -17.05     | 9.20   | Peak   | Vertical  |
| 2 |    | 5265.000 | -36.52 | -46.32     | -13.00     | -23.52     | 9.80   | Peak   | Vertical  |





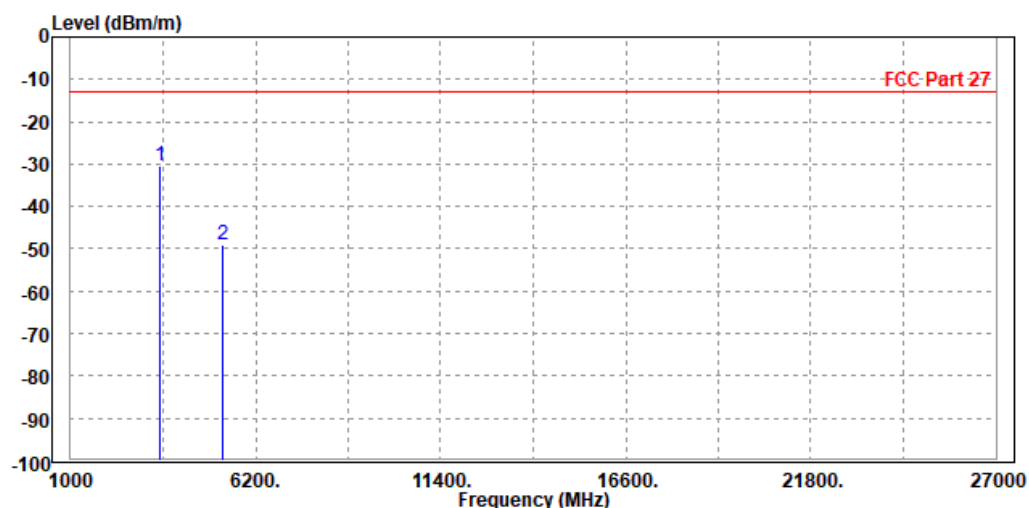
**BUREAU  
VERITAS**

Test Report No.: RF191122W002-3

**CHANNEL BANDWIDTH: 15MHz / QPSK**

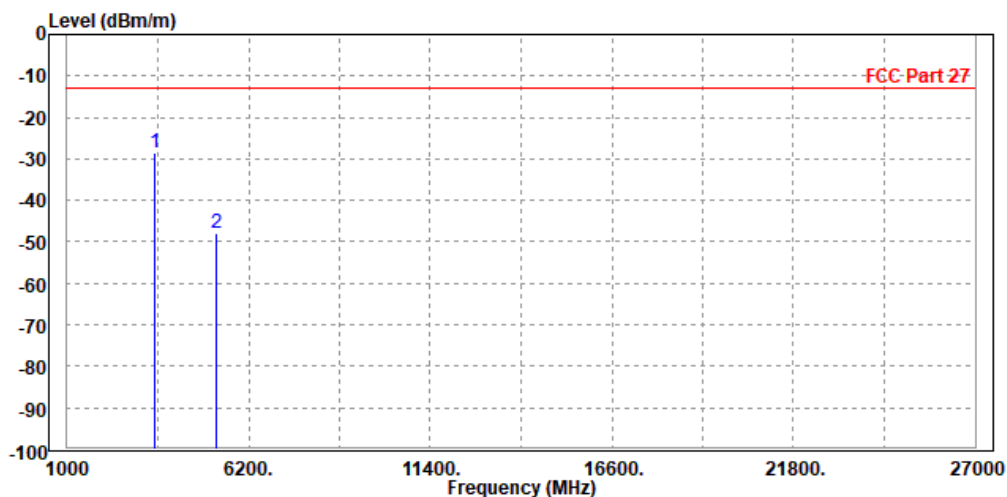
|                                                     |                   |                 |                    |
|-----------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                                | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong        |                 |                    |
| 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 | 3522.000 | -30.59 | -39.19     | -13.00     | -17.59     | 8.60   | Peak   | Horizontal |
| 2 |    | 5265.000 | -49.03 | -58.35     | -13.00     | -36.03     | 9.32   | Peak   | Horizontal |



|                                                   |                   |                 |                    |
|---------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                              | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong        |                 |                    |
| 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 | 3522.000 | -28.65 | -37.85     | -13.00     | -15.65     | 9.20   | Peak   | Vertical  |
| 2 |    | 5265.000 | -47.83 | -57.63     | -13.00     | -34.83     | 9.80   | Peak   | Vertical  |

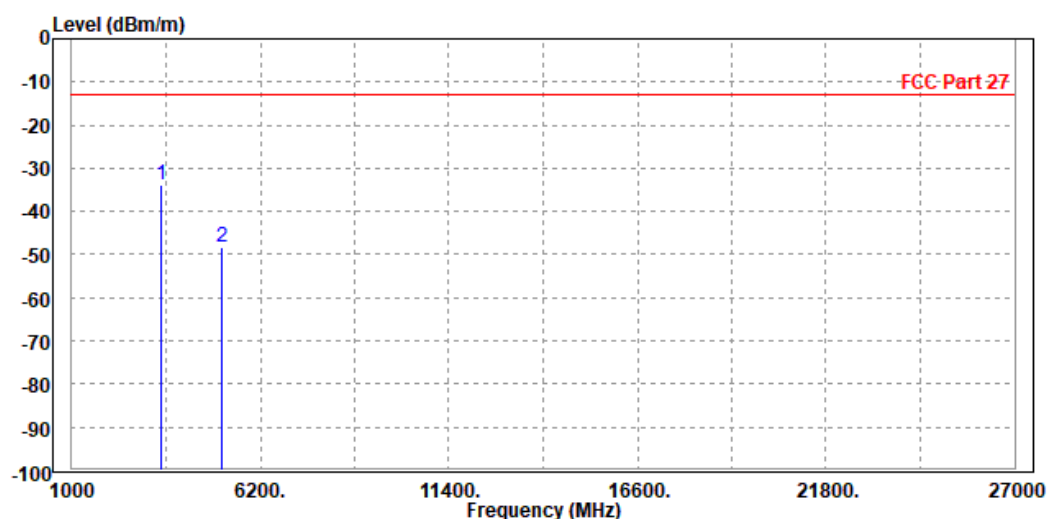


CHANNEL BANDWIDTH: 20MHz / QPSK

CH 132072

|                                                     |                   |                 |                    |
|-----------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                                | TX channel 132072 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong        |                 |                    |
| 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 | 3444.000 | -33.84 | -42.42     | -13.00     | -20.84     | 8.58   | Peak   | Horizontal |
| 2 |    | 5160.000 | -48.43 | -57.43     | -13.00     | -35.43     | 9.00   | Peak   | Horizontal |

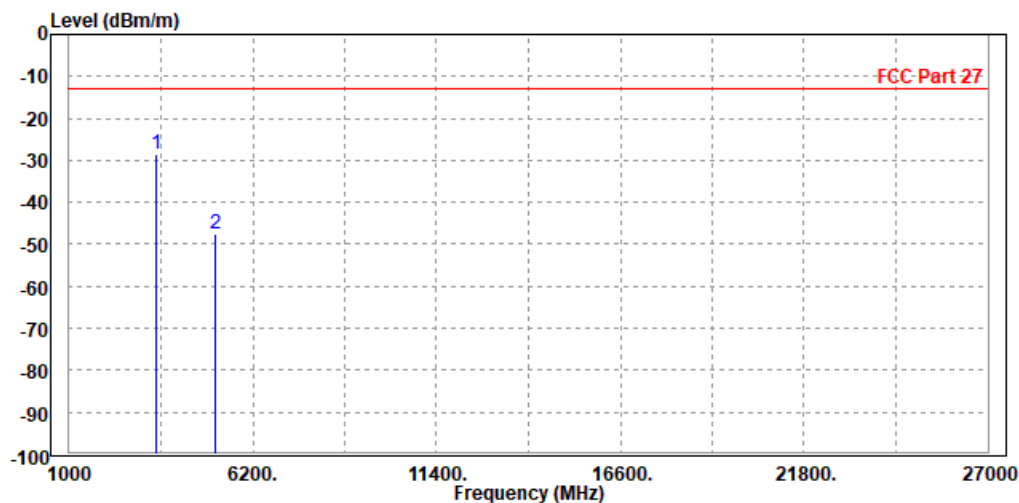




Test Report No.: RF191122W002-3

|                                                   |                   |                 |                    |
|---------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                              | TX channel 132072 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong        |                 |                    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |                    |

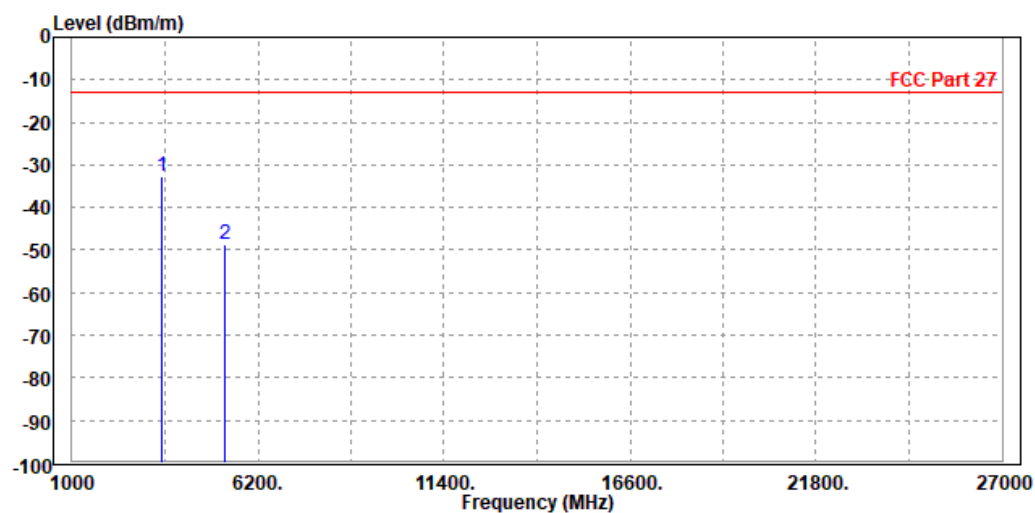
|   |    | Freq     | Level  | Read Level | Limit Line | Over Limit | Factor | Remark | Pol/Phase |
|---|----|----------|--------|------------|------------|------------|--------|--------|-----------|
|   |    | MHz      | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |           |
| 1 | PP | 3444.000 | -28.57 | -37.71     | -13.00     | -15.57     | 9.14   | Peak   | Vertical  |
| 2 |    | 5160.000 | -47.50 | -57.34     | -13.00     | -34.50     | 9.84   | Peak   | Vertical  |



CH 132322

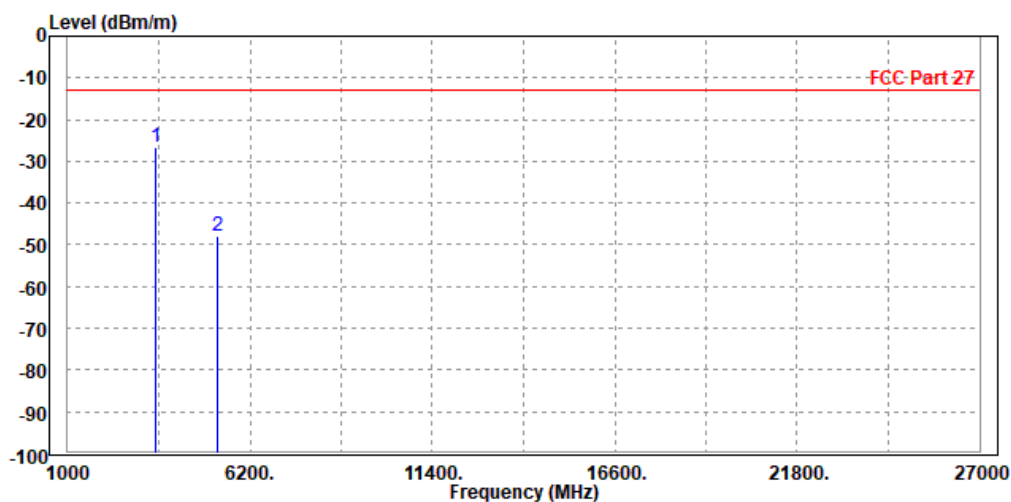
|                                                     |                   |                 |                    |
|-----------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                                | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong        |                 |                    |
| 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 | 3522.000 | -32.77 | -41.37     | -13.00     | -19.77     | 8.60   | Peak   | Horizontal |
| 2 |    | 5265.000 | -48.50 | -57.82     | -13.00     | -35.50     | 9.32   | Peak   | Horizontal |



|                                                   |                   |                 |                    |
|---------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                              | TX channel 132322 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong        |                 |                    |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |                    |

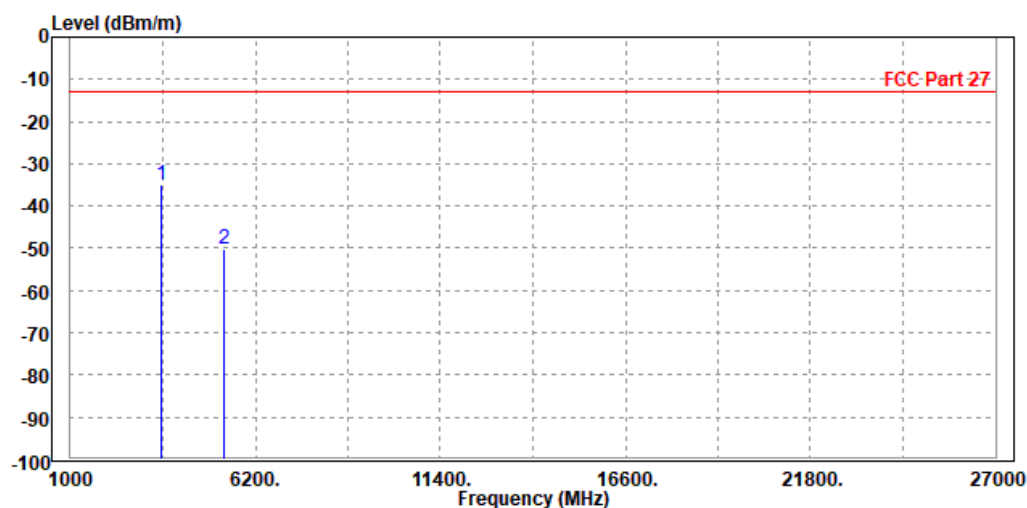
|      |          |        | Read   | Limit  | Over   |        |        |           |
|------|----------|--------|--------|--------|--------|--------|--------|-----------|
|      | Freq     | Level  | Level  | Line   | Limit  | Factor | Remark | Pol/Phase |
|      | MHz      | dBm/m  | dBm    | dBm/m  | dB     | dB/m   |        |           |
| 1 PP | 3522.000 | -26.63 | -35.83 | -13.00 | -13.63 | 9.20   | Peak   | Vertical  |
| 2    | 5265.000 | -47.98 | -57.78 | -13.00 | -34.98 | 9.80   | Peak   | Vertical  |



CH 132572

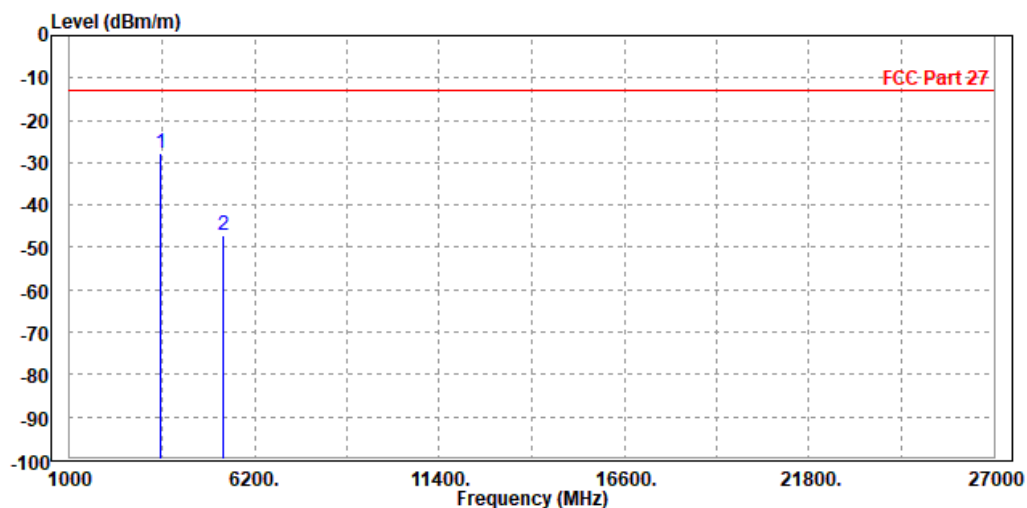
|                                                     |                   |                 |                    |
|-----------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                                | TX channel 132572 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                           | Tony Xiong        |                 |                    |
| 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 | 3540.000 | -35.05 | -43.67     | -13.00     | -22.05     | 8.62   | Peak   | Horizontal |
| 2 |    | 5310.000 | -50.21 | -59.66     | -13.00     | -37.21     | 9.45   | Peak   | Horizontal |



|                                                   |                   |                 |                    |
|---------------------------------------------------|-------------------|-----------------|--------------------|
| MODE                                              | TX channel 132572 | FREQUENCY RANGE | Above 1000MHz      |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | DC 5V from adapter |
| TESTED BY                                         | Tony Xiong        |                 |                    |
| 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 | 3540.000 | -27.69 | -36.89     | -13.00     | -14.69     | 9.20   | Peak   | Vertical  |
| 2 |    | 5310.000 | -47.11 | -56.89     | -13.00     | -34.11     | 9.78   | Peak   | Vertical  |





Test Report No.: RF191122W002-3

## 4 INFORMATION ON THE TESTING LABORATORIES

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

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

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**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

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



Test Report No.: RF191122W002-3

## 5 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---