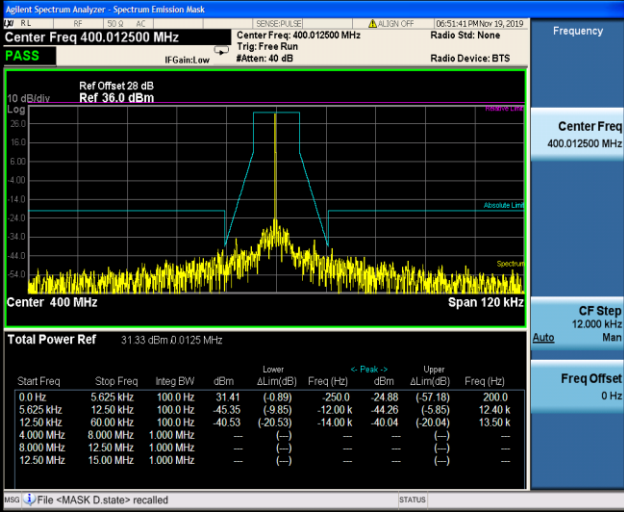
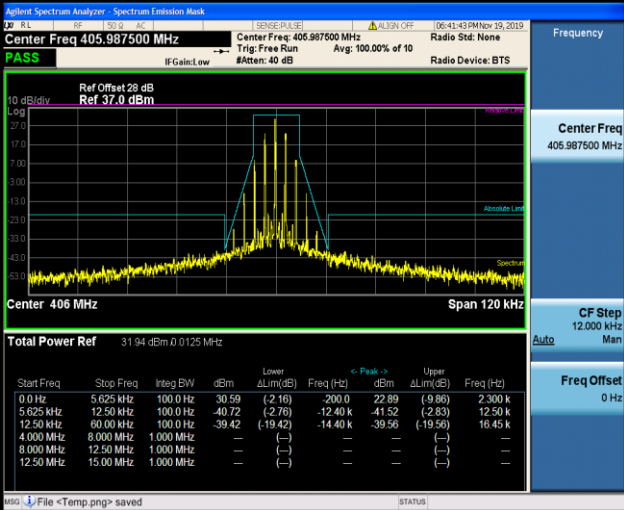
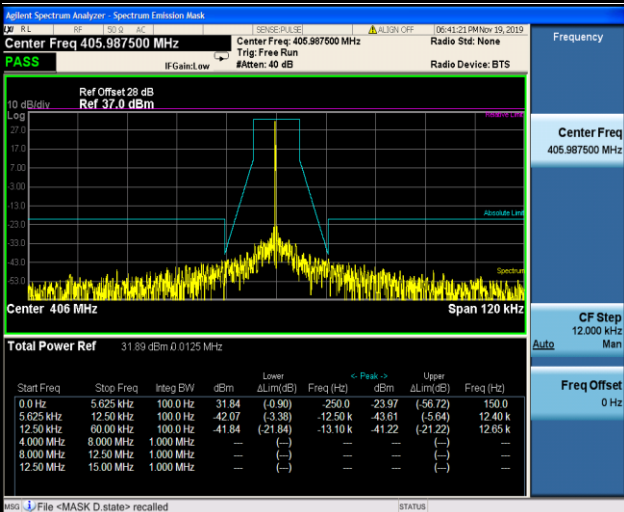




## Appendix C:Emission Mask

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                     |
|----------------|-----------------|------------------|--------------------------------------------------------------------------------------|
| TX-ANL         | FM              | CH <sub>L</sub>  |    |
| TX-ANL         | FM              | CH <sub>M1</sub> |   |
| TX-ANL         | FM              | CH <sub>M1</sub> |  |



## Appendix C:Emission Mask

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |           |              |                |                |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
|----------------|-----------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|--------------|----------------|----------------|-----------|--------------|----------------|-----------|--------|-----------|----------|-------|---------|--------|--------|----------|---------|-----------|-----------|----------|--------|---------|----------|--------|---------|---------|-----------|-----------|----------|--------|----------|----------|--------|----------|---------|-----------|-----------|-----------|---|-----|---|---|-----|---|-----------|-----------|-----------|---|-----|---|---|-----|---|-----------|-----------|-----------|---|-----|---|---|-----|---|
| TX-ANL         | FM              | CH <sub>M2</sub> | <div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>RL</div><div>RF</div><div>150.0</div><div>AC</div><div>SENSE: PULSE</div><div>ALIGN: OFF</div><div>06:45:01 PM Nov 19, 2019</div></div><div>Center Freq 406.112500 MHz</div><div>Center Freq: 406.112500 MHz</div><div>Trig: Free Run</div><div>Avg: 100.00% of 10</div><div>Radio Std: None</div><div>Radio Device: BTS</div><div>PASS</div><div>IF Gain: Low</div><div>#Att: 40 dB</div></div><div><div>Ref Offset 28 dB</div><div>Ref 37.0 dBm</div><div>10 dB/div</div><div>Log</div><div>27.0</div><div>17.0</div><div>7.00</div><div>3.00</div><div>-13.0</div><div>-23.0</div><div>-33.0</div><div>-43.0</div><div>-53.0</div><div>Relative Line</div><div>Absolute Line</div><div>Spectrum</div><div>Center 406.1 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref</div><div>31.93 dBm/0.0125 MHz</div><table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>&lt; Peak &gt; dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.56</td><td>(-2.21)</td><td>-250.0</td><td>22.86</td><td>(-9.91)</td><td>2.250 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.26</td><td>(-2.32)</td><td>-12.40 k</td><td>-40.42</td><td>(-3.21)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.16</td><td>(-19.16)</td><td>-13.40 k</td><td>-37.47</td><td>(-17.47)</td><td>12.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table><div>MSG File &lt;Temp.png&gt; saved</div><div>STATUS</div></div></div><div><div>Frequency</div><div>Center Freq<br/>406.112500 MHz</div><div>CF Step<br/>12.000 kHz<br/>Auto Man</div><div>Freq Offset<br/>0 Hz</div></div></div>        | Start Freq     | Stop Freq | Integ BW     | dBm            | Lower ΔLim(dB) | Freq (Hz) | < Peak > dBm | Upper ΔLim(dB) | Freq (Hz) | 0.0 Hz | 5.625 kHz | 100.0 Hz | 30.56 | (-2.21) | -250.0 | 22.86  | (-9.91)  | 2.250 k | 5.625 kHz | 12.50 kHz | 100.0 Hz | -40.26 | (-2.32) | -12.40 k | -40.42 | (-3.21) | 12.30 k | 12.50 kHz | 60.00 kHz | 100.0 Hz | -39.16 | (-19.16) | -13.40 k | -37.47 | (-17.47) | 12.75 k | 4.000 MHz | 8.000 MHz | 1.000 MHz | — | (—) | — | — | (—) | — | 8.000 MHz | 12.50 MHz | 1.000 MHz | — | (—) | — | — | (—) | — | 12.50 MHz | 15.00 MHz | 1.000 MHz | — | (—) | — | — | (—) | — |
| Start Freq     | Stop Freq       | Integ BW         | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Lower ΔLim(dB) | Freq (Hz) | < Peak > dBm | Upper ΔLim(dB) | Freq (Hz)      |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 0.0 Hz         | 5.625 kHz       | 100.0 Hz         | 30.56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (-2.21)        | -250.0    | 22.86        | (-9.91)        | 2.250 k        |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 5.625 kHz      | 12.50 kHz       | 100.0 Hz         | -40.26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (-2.32)        | -12.40 k  | -40.42       | (-3.21)        | 12.30 k        |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 12.50 kHz      | 60.00 kHz       | 100.0 Hz         | -39.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (-19.16)       | -13.40 k  | -37.47       | (-17.47)       | 12.75 k        |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 4.000 MHz      | 8.000 MHz       | 1.000 MHz        | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (—)            | —         | —            | (—)            | —              |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 8.000 MHz      | 12.50 MHz       | 1.000 MHz        | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (—)            | —         | —            | (—)            | —              |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 12.50 MHz      | 15.00 MHz       | 1.000 MHz        | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (—)            | —         | —            | (—)            | —              |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| TX-ANL         | FM              | CH <sub>M2</sub> | <div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>RL</div><div>RF</div><div>150.0</div><div>AC</div><div>SENSE: PULSE</div><div>ALIGN: OFF</div><div>06:44:59 PM Nov 19, 2019</div></div><div>Center Freq 406.112500 MHz</div><div>Center Freq: 406.112500 MHz</div><div>Trig: Free Run</div><div>Avg: 100.00% of 10</div><div>Radio Std: None</div><div>Radio Device: BTS</div><div>PASS</div><div>IF Gain: Low</div><div>#Att: 40 dB</div></div><div><div>Ref Offset 28 dB</div><div>Ref 37.0 dBm</div><div>10 dB/div</div><div>Log</div><div>27.0</div><div>17.0</div><div>7.00</div><div>3.00</div><div>-13.0</div><div>-23.0</div><div>-33.0</div><div>-43.0</div><div>-53.0</div><div>Relative Line</div><div>Absolute Line</div><div>Spectrum</div><div>Center 406.1 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref</div><div>31.89 dBm/0.0125 MHz</div><table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>&lt; Peak &gt; dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.87</td><td>(-0.90)</td><td>-250.0</td><td>-24.43</td><td>(-57.20)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.12</td><td>(-3.45)</td><td>-12.50 k</td><td>-41.76</td><td>(-6.36)</td><td>12.05 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.42</td><td>(-20.42)</td><td>-13.35 k</td><td>-41.12</td><td>(-21.12)</td><td>12.85 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table><div>MSG File &lt;MASK.D.state&gt; recalled</div><div>STATUS</div></div></div><div><div>Frequency</div><div>Center Freq<br/>406.112500 MHz</div><div>CF Step<br/>12.000 kHz<br/>Auto Man</div><div>Freq Offset<br/>0 Hz</div></div></div> | Start Freq     | Stop Freq | Integ BW     | dBm            | Lower ΔLim(dB) | Freq (Hz) | < Peak > dBm | Upper ΔLim(dB) | Freq (Hz) | 0.0 Hz | 5.625 kHz | 100.0 Hz | 31.87 | (-0.90) | -250.0 | -24.43 | (-57.20) | 50.00   | 5.625 kHz | 12.50 kHz | 100.0 Hz | -42.12 | (-3.45) | -12.50 k | -41.76 | (-6.36) | 12.05 k | 12.50 kHz | 60.00 kHz | 100.0 Hz | -40.42 | (-20.42) | -13.35 k | -41.12 | (-21.12) | 12.85 k | 4.000 MHz | 8.000 MHz | 1.000 MHz | — | (—) | — | — | (—) | — | 8.000 MHz | 12.50 MHz | 1.000 MHz | — | (—) | — | — | (—) | — | 12.50 MHz | 15.00 MHz | 1.000 MHz | — | (—) | — | — | (—) | — |
| Start Freq     | Stop Freq       | Integ BW         | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Lower ΔLim(dB) | Freq (Hz) | < Peak > dBm | Upper ΔLim(dB) | Freq (Hz)      |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 0.0 Hz         | 5.625 kHz       | 100.0 Hz         | 31.87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (-0.90)        | -250.0    | -24.43       | (-57.20)       | 50.00          |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 5.625 kHz      | 12.50 kHz       | 100.0 Hz         | -42.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (-3.45)        | -12.50 k  | -41.76       | (-6.36)        | 12.05 k        |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 12.50 kHz      | 60.00 kHz       | 100.0 Hz         | -40.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (-20.42)       | -13.35 k  | -41.12       | (-21.12)       | 12.85 k        |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 4.000 MHz      | 8.000 MHz       | 1.000 MHz        | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (—)            | —         | —            | (—)            | —              |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 8.000 MHz      | 12.50 MHz       | 1.000 MHz        | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (—)            | —         | —            | (—)            | —              |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 12.50 MHz      | 15.00 MHz       | 1.000 MHz        | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (—)            | —         | —            | (—)            | —              |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| TX-ANL         | FM              | CH <sub>M3</sub> | <div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div><div>RL</div><div>RF</div><div>150.0</div><div>AC</div><div>SENSE: PULSE</div><div>ALIGN: OFF</div><div>06:46:40 PM Nov 19, 2019</div></div><div>Center Freq 438.012500 MHz</div><div>Center Freq: 438.012500 MHz</div><div>Trig: Free Run</div><div>Avg: 100.00% of 10</div><div>Radio Std: None</div><div>Radio Device: BTS</div><div>PASS</div><div>IF Gain: Low</div><div>#Att: 40 dB</div></div><div><div>Ref Offset 28 dB</div><div>Ref 36.0 dBm</div><div>10 dB/div</div><div>Log</div><div>27.0</div><div>16.0</div><div>6.00</div><div>3.00</div><div>-14.0</div><div>-24.0</div><div>-34.0</div><div>-44.0</div><div>-54.0</div><div>Relative Line</div><div>Absolute Line</div><div>Spectrum</div><div>Center 438 MHz</div><div>Span 120 kHz</div></div><div><div>Total Power Ref</div><div>31.51 dBm/0.0125 MHz</div><table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>&lt; Peak &gt; dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.10</td><td>(-2.29)</td><td>-250.0</td><td>21.86</td><td>(-10.52)</td><td>2.250 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.61</td><td>(-3.01)</td><td>-12.30 k</td><td>-41.27</td><td>(-2.95)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.65</td><td>(-19.65)</td><td>-14.05 k</td><td>-40.51</td><td>(-20.51)</td><td>14.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table><div>MSG File &lt;Temp.png&gt; saved</div><div>STATUS</div></div></div><div><div>Frequency</div><div>Center Freq<br/>438.012500 MHz</div><div>CF Step<br/>12.000 kHz<br/>Auto Man</div><div>Freq Offset<br/>0 Hz</div></div></div>         | Start Freq     | Stop Freq | Integ BW     | dBm            | Lower ΔLim(dB) | Freq (Hz) | < Peak > dBm | Upper ΔLim(dB) | Freq (Hz) | 0.0 Hz | 5.625 kHz | 100.0 Hz | 30.10 | (-2.29) | -250.0 | 21.86  | (-10.52) | 2.250 k | 5.625 kHz | 12.50 kHz | 100.0 Hz | -40.61 | (-3.01) | -12.30 k | -41.27 | (-2.95) | 12.40 k | 12.50 kHz | 60.00 kHz | 100.0 Hz | -39.65 | (-19.65) | -14.05 k | -40.51 | (-20.51) | 14.00 k | 4.000 MHz | 8.000 MHz | 1.000 MHz | — | (—) | — | — | (—) | — | 8.000 MHz | 12.50 MHz | 1.000 MHz | — | (—) | — | — | (—) | — | 12.50 MHz | 15.00 MHz | 1.000 MHz | — | (—) | — | — | (—) | — |
| Start Freq     | Stop Freq       | Integ BW         | dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Lower ΔLim(dB) | Freq (Hz) | < Peak > dBm | Upper ΔLim(dB) | Freq (Hz)      |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 0.0 Hz         | 5.625 kHz       | 100.0 Hz         | 30.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (-2.29)        | -250.0    | 21.86        | (-10.52)       | 2.250 k        |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 5.625 kHz      | 12.50 kHz       | 100.0 Hz         | -40.61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (-3.01)        | -12.30 k  | -41.27       | (-2.95)        | 12.40 k        |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 12.50 kHz      | 60.00 kHz       | 100.0 Hz         | -39.65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (-19.65)       | -14.05 k  | -40.51       | (-20.51)       | 14.00 k        |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 4.000 MHz      | 8.000 MHz       | 1.000 MHz        | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (—)            | —         | —            | (—)            | —              |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 8.000 MHz      | 12.50 MHz       | 1.000 MHz        | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (—)            | —         | —            | (—)            | —              |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |
| 12.50 MHz      | 15.00 MHz       | 1.000 MHz        | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (—)            | —         | —            | (—)            | —              |           |              |                |           |        |           |          |       |         |        |        |          |         |           |           |          |        |         |          |        |         |         |           |           |          |        |          |          |        |          |         |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |           |           |           |   |     |   |   |     |   |



## Appendix C:Emission Mask

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| TX-ANL         | FM              | CH <sub>M3</sub> | <div><div><div><div>Agilent Spectrum Analyzer - Spectrum Emission Mask</div><div>Center Freq 438.012500 MHz</div><div>Ref Offset 28 dB<br/>Ref 36.0 dBm</div><div>10 dB/div</div><div>20.0</div><div>16.0</div><div>12.0</div><div>8.0</div><div>4.0</div><div>0.0</div><div>-4.0</div><div>-8.0</div><div>-12.0</div><div>-16.0</div><div>-20.0</div><div>-24.0</div><div>-28.0</div><div>-32.0</div><div>-36.0</div><div>-40.0</div><div>-44.0</div><div>-48.0</div><div>-52.0</div><div>-56.0</div><div>-60.0</div><div>-64.0</div><div>-68.0</div><div>-72.0</div><div>-76.0</div><div>-80.0</div><div>-84.0</div><div>-88.0</div><div>-92.0</div><div>-96.0</div><div>-100.0</div><div>-104.0</div><div>-108.0</div><div>-112.0</div><div>-116.0</div><div>-120.0</div><div>-124.0</div><div>-128.0</div><div>-132.0</div><div>-136.0</div><div>-140.0</div><div>-144.0</div><div>-148.0</div><div>-152.0</div><div>-156.0</div><div>-160.0</div><div>-164.0</div><div>-168.0</div><div>-172.0</div><div>-176.0</div><div>-180.0</div><div>-184.0</div><div>-188.0</div><div>-192.0</div><div>-196.0</div><div>-200.0</div><div>-204.0</div><div>-208.0</div><div>-212.0</div><div>-216.0</div><div>-220.0</div><div>-224.0</div><div>-228.0</div><div>-232.0</div><div>-236.0</div><div>-240.0</div><div>-244.0</div><div>-248.0</div><div>-252.0</div><div>-256.0</div><div>-260.0</div><div>-264.0</div><div>-268.0</div><div>-272.0</div><div>-276.0</div><div>-280.0</div><div>-284.0</div><div>-288.0</div><div>-292.0</div><div>-296.0</div><div>-300.0</div><div>-304.0</div><div>-308.0</div><div>-312.0</div><div>-316.0</div><div>-320.0</div><div>-324.0</div><div>-328.0</div><div>-332.0</div><div>-336.0</div><div>-340.0</div><div>-344.0</div><div>-348.0</div><div>-352.0</div><div>-356.0</div><div>-360.0</div><div>-364.0</div><div>-368.0</div><div>-372.0</div><div>-376.0</div><div>-380.0</div><div>-384.0</div><div>-388.0</div><div>-392.0</div><div>-396.0</div><div>-400.0</div><div>-404.0</div><div>-408.0</div><div>-412.0</div><div>-416.0</div><div>-420.0</div><div>-424.0</div><div>-428.0</div><div>-432.0</div><div>-436.0</div><div>-440.0</div><div>-444.0</div><div>-448.0</div><div>-452.0</div><div>-456.0</div><div>-460.0</div><div>-464.0</div><div>-468.0</div><div>-472.0</div><div>-476.0</div><div>-480.0</div><div>-484.0</div><div>-488.0</div><div>-492.0</div><div>-496.0</div><div>-500.0</div><div>-504.0</div><div>-508.0</div><div>-512.0</div><div>-516.0</div><div>-520.0</div><div>-524.0</div><div>-528.0</div><div>-532.0</div><div>-536.0</div><div>-540.0</div><div>-544.0</div><div>-548.0</div><div>-552.0</div><div>-556.0</div><div>-560.0</div><div>-564.0</div><div>-568.0</div><div>-572.0</div><div>-576.0</div><div>-580.0</div><div>-584.0</div><div>-588.0</div><div>-592.0</div><div>-596.0</div><div>-600.0</div><div>-604.0</div><div>-608.0</div><div>-612.0</div><div>-616.0</div><div>-620.0</div><div>-624.0</div><div>-628.0</div><div>-632.0</div><div>-636.0</div><div>-640.0</div><div>-644.0</div><div>-648.0</div><div>-652.0</div><div>-656.0</div><div>-660.0</div><div>-664.0</div><div>-668.0</div><div>-672.0</div><div>-676.0</div><div>-680.0</div><div>-684.0</div><div>-688.0</div><div>-692.0</div><div>-696.0</div><div>-700.0</div><div>-704.0</div><div>-708.0</div><div>-712.0</div><div>-716.0</div><div>-720.0</div><div>-724.0</div><div>-728.0</div><div>-732.0</div><div>-736.0</div><div>-740.0</div><div>-744.0</div><div>-748.0</div><div>-752.0</div><div>-756.0</div><div>-760.0</div><div>-764.0</div><div>-768.0</div><div>-772.0</div><div>-776.0</div><div>-780.0</div><div>-784.0</div><div>-788.0</div><div>-792.0</div><div>-796.0</div><div>-800.0</div><div>-804.0</div><div>-808.0</div><div>-812.0</div><div>-816.0</div><div>-820.0</div><div>-824.0</div><div>-828.0</div><div>-832.0</div><div>-836.0</div><div>-840.0</div><div>-844.0</div><div>-848.0</div><div>-852.0</div><div>-856.0</div><div>-860.0</div><div>-864.0</div><div>-868.0</div><div>-872.0</div><div>-876.0</div><div>-880.0</div><div>-884.0</div><div>-888.0</div><div>-892.0</div><div>-896.0</div><div>-900.0</div><div>-904.0</div><div>-908.0</div><div>-912.0</div><div>-916.0</div><div>-920.0</div><div>-924.0</div><div>-928.0</div><div>-932.0</div><div>-936.0</div><div>-940.0</div><div>-944.0</div><div>-948.0</div><div>-952.0</div><div>-956.0</div><div>-960.0</div><div>-964.0</div><div>-968.0</div><div>-972.0</div><div>-976.0</div><div>-980.0</div><div>-984.0</div><div>-988.0</div><div>-992.0</div><div>-996.0</div><div>-1000.0</div><div>-1004.0</div><div>-1008.0</div><div>-1012.0</div><div>-1016.0</div><div>-1020.0</div><div>-1024.0</div><div>-1028.0</div><div>-1032.0</div><div>-1036.0</div><div>-1040.0</div><div>-1044.0</div><div>-1048.0</div><div>-1052.0</div><div>-1056.0</div><div>-1060.0</div><div>-1064.0</div><div>-1068.0</div><div>-1072.0</div><div>-1076.0</div><div>-1080.0</div><div>-1084.0</div><div>-1088.0</div><div>-1092.0</div><div>-1096.0</div><div>-1100.0</div><div>-1104.0</div><div>-1108.0</div><div>-1112.0</div><div>-1116.0</div><div>-1120.0</div><div>-1124.0</div><div>-1128.0</div><div>-1132.0</div><div>-1136.0</div><div>-1140.0</div><div>-1144.0</div><div>-1148.0</div><div>-1152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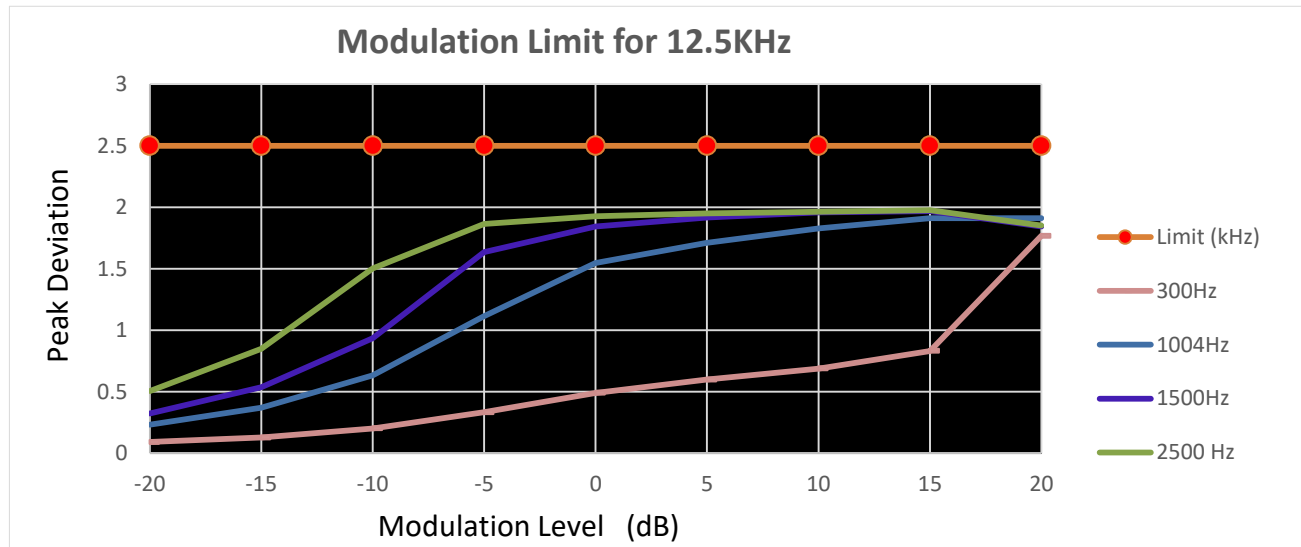
**Appendix D:Modulation Limit**

| Operation Mode | Modulation Type | Test Channel     | Modulation Level (dB) | Peak frequency deviation (kHz) |        |        |         | Limit (kHz) | Result |
|----------------|-----------------|------------------|-----------------------|--------------------------------|--------|--------|---------|-------------|--------|
|                |                 |                  |                       | 300Hz                          | 1004Hz | 1500Hz | 2500 Hz |             |        |
| TX-ANH         | FM              | CH <sub>M2</sub> | -20                   | 0.091                          | 0.232  | 0.323  | 0.505   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | -15                   | 0.128                          | 0.369  | 0.536  | 0.849   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | -10                   | 0.202                          | 0.633  | 0.934  | 1.502   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | -5                    | 0.333                          | 1.115  | 1.634  | 1.863   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 0                     | 0.49                           | 1.547  | 1.844  | 1.925   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 5                     | 0.599                          | 1.71   | 1.916  | 1.95    | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 10                    | 0.688                          | 1.827  | 1.957  | 1.964   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 15                    | 0.832                          | 1.91   | 1.967  | 1.975   | 2.5         | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 20                    | 1.767                          | 1.911  | 1.844  | 1.851   | 2.5         | PASS   |



## Appendix D:Modulation Limit

### TEST PLOT RESULT



**Appendix E:Aduio Frequency Response**

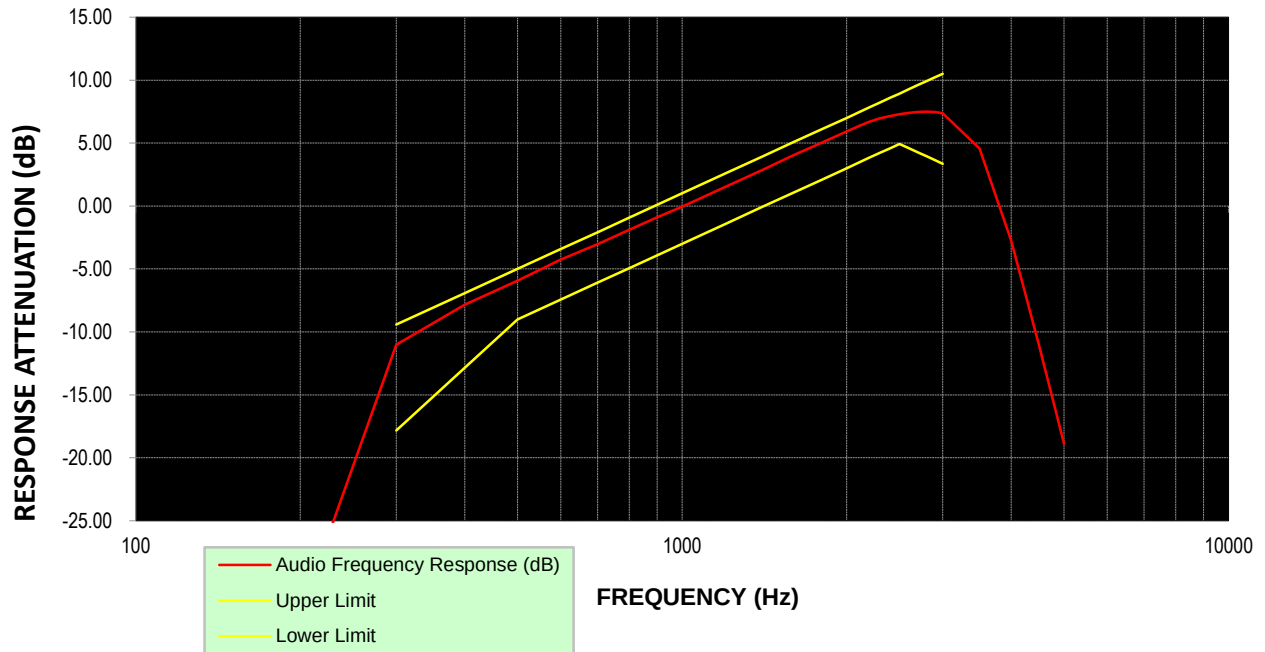
| Operation Mode | Modulation Type | Test Channel     | Frequency (Hz) | Audio Frequency Response (dB) | Lower Limit | Upper Limit | Result |
|----------------|-----------------|------------------|----------------|-------------------------------|-------------|-------------|--------|
| TX-ANH         | FM              | CH <sub>M2</sub> | 100            | -32.41                        |             |             | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 200            | -32.43                        |             |             | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 300            | -11.02                        | -17.84      | -9.42       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 400            | -7.83                         | -12.86      | -6.93       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 500            | -5.93                         | -9.00       | -5.00       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 600            | -4.25                         | -7.42       | -3.42       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 700            | -3.04                         | -6.09       | -2.09       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 800            | -1.89                         | -4.93       | -0.93       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 900            | -0.90                         | -3.91       | 0.09        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 1000           | -0.06                         | -3.00       | 1.00        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 1200           | 1.53                          | -1.42       | 2.58        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 1400           | 2.85                          | -0.09       | 3.91        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 1600           | 4.03                          | 1.07        | 5.07        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 1800           | 5.02                          | 2.09        | 6.09        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2000           | 5.92                          | 3.00        | 7.00        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2100           | 6.32                          | 3.42        | 7.42        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2200           | 6.69                          | 3.83        | 7.83        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2300           | 6.96                          | 4.21        | 8.21        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2400           | 7.14                          | 4.58        | 8.58        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2500           | 7.29                          | 4.93        | 8.93        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2600           | 7.40                          | 4.59        | 9.27        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2700           | 7.47                          | 4.27        | 9.60        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2800           | 7.50                          | 3.95        | 9.91        | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 2900           | 7.48                          | 3.65        | 10.22       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 3000           | 7.38                          | 3.35        | 10.51       | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 3500           | 4.58                          |             |             | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 4000           | -2.77                         |             |             | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 4500           | -11.07                        |             |             | PASS   |
| TX-ANH         | FM              | CH <sub>M2</sub> | 5000           | -18.88                        |             |             | PASS   |



## Appendix E:Aduio Frequency Response

### TEST PLOT RESULT

Aduio Frequecny Response For 12.5kHz



Note: The highest audio frequency response at 3kHz<3.125kHz, so meet the requirement.

**Appendix F:Frequency Stability Test & Temperature**

| Operation Mode | Modulation Type | Test Conditions |             | Frequency error (ppm) |                  |                  |                  |                 | Limit (ppm) | Result |
|----------------|-----------------|-----------------|-------------|-----------------------|------------------|------------------|------------------|-----------------|-------------|--------|
|                |                 | Voltage         | Temperature | CH <sub>L</sub>       | CH <sub>M1</sub> | CH <sub>M2</sub> | CH <sub>M3</sub> | CH <sub>H</sub> |             |        |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | -30         | -0.022                | -0.036           | -0.029           | -0.045           | -0.061          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | -20         | -0.034                | -0.045           | -0.039           | -0.055           | -0.069          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | -10         | -0.043                | -0.057           | -0.053           | -0.064           | -0.083          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | 0           | -0.056                | -0.069           | -0.064           | -0.073           | -0.095          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | 10          | -0.042                | -0.057           | -0.055           | -0.064           | -0.082          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | 20          | -0.032                | -0.049           | -0.045           | -0.055           | -0.073          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | 30          | -0.023                | -0.041           | -0.034           | -0.046           | -0.066          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | 40          | -0.014                | -0.030           | -0.023           | -0.039           | -0.055          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | 55          | -0.001                | -0.018           | -0.011           | -0.026           | -0.045          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | -30         | -0.030                | -0.025           | -0.039           | -0.047           | -0.060          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | -20         | -0.041                | -0.037           | -0.049           | -0.055           | -0.068          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | -10         | -0.053                | -0.051           | -0.064           | -0.065           | -0.078          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | 0           | -0.061                | -0.062           | -0.077           | -0.074           | -0.086          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | 10          | -0.052                | -0.049           | -0.067           | -0.063           | -0.076          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | 20          | -0.041                | -0.039           | -0.054           | -0.051           | -0.067          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | 30          | -0.027                | -0.027           | -0.045           | -0.040           | -0.056          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | 40          | -0.016                | -0.013           | -0.032           | -0.030           | -0.048          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | 55          | -0.005                | -0.003           | -0.020           | -0.022           | -0.039          | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | -30         | -0.336                | -0.386           | -0.384           | -0.374           | -0.433          | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | -20         | -0.346                | -0.401           | -0.395           | -0.386           | -0.446          | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | -10         | -0.361                | -0.413           | -0.406           | -0.400           | -0.457          | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | 0           | -0.369                | -0.421           | -0.420           | -0.408           | -0.465          | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | 10          | -0.359                | -0.411           | -0.408           | -0.394           | -0.456          | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | 20          | -0.346                | -0.397           | -0.398           | -0.386           | -0.445          | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | 30          | -0.334                | -0.386           | -0.388           | -0.372           | -0.435          | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | 40          | -0.323                | -0.379           | -0.381           | -0.364           | -0.424          | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | 55          | -0.309                | -0.371           | -0.374           | -0.355           | -0.410          | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | -30         | -0.340                | -0.390           | -0.359           | -0.356           | -0.415          | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | -20         | -0.351                | -0.404           | -0.370           | -0.367           | -0.428          | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | -10         | -0.362                | -0.419           | -0.385           | -0.377           | -0.436          | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | 0           | -0.377                | -0.433           | -0.394           | -0.389           | -0.447          | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | 10          | -0.369                | -0.419           | -0.387           | -0.377           | -0.435          | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | 20          | -0.359                | -0.408           | -0.379           | -0.365           | -0.423          | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | 30          | -0.346                | -0.401           | -0.365           | -0.354           | -0.415          | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | 40          | -0.339                | -0.394           | -0.354           | -0.346           | -0.406          | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | 55          | -0.331                | -0.380           | -0.346           | -0.333           | -0.397          | ±5.0        | PASS   |

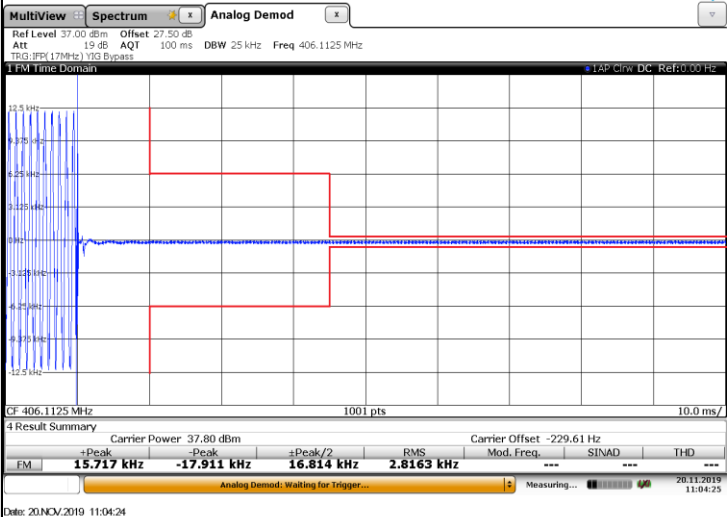
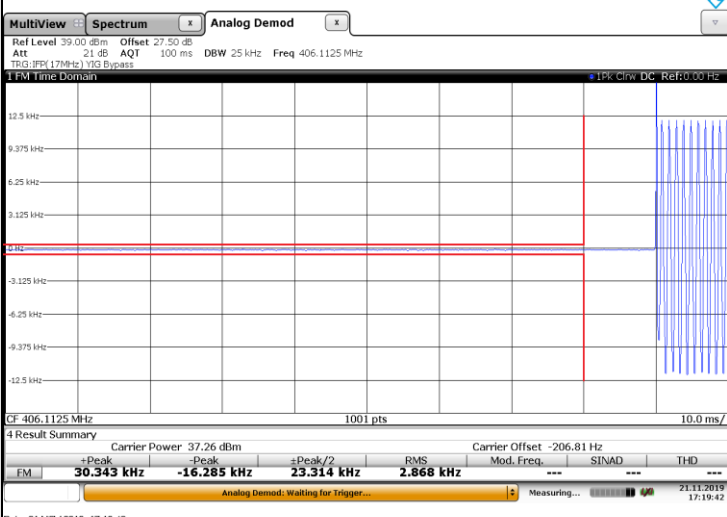
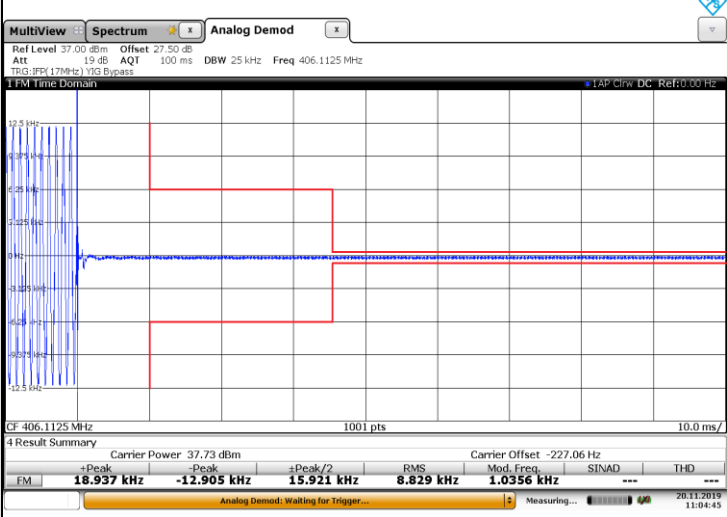


**Appendix G:Frequency Stability Test & Voltage**

| Operation Mode | Modulation Type | Test Conditions |                | Frequency error (ppm) |                  |                  |                  |                 | Limit (ppm) | Result |
|----------------|-----------------|-----------------|----------------|-----------------------|------------------|------------------|------------------|-----------------|-------------|--------|
|                |                 | Voltage         | Temperature    | CH <sub>L</sub>       | CH <sub>M1</sub> | CH <sub>M2</sub> | CH <sub>M3</sub> | CH <sub>H</sub> |             |        |
| TX-DNH         | 4FSK            | V <sub>N</sub>  | T <sub>N</sub> | -0.055                | -0.065           | -0.061           | -0.067           | -0.088          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>L</sub>  | T <sub>N</sub> | -0.056                | -0.066           | -0.062           | -0.067           | -0.090          | ±5.0        | PASS   |
| TX-DNH         | 4FSK            | V <sub>H</sub>  | T <sub>N</sub> | -0.058                | -0.066           | -0.062           | -0.068           | -0.090          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>N</sub>  | T <sub>N</sub> | -0.061                | -0.058           | -0.075           | -0.074           | -0.081          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>L</sub>  | T <sub>N</sub> | -0.062                | -0.059           | -0.076           | -0.075           | -0.081          | ±5.0        | PASS   |
| TX-DNL         | 4FSK            | V <sub>H</sub>  | T <sub>N</sub> | -0.061                | -0.059           | -0.078           | -0.076           | -0.085          | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>N</sub>  | T <sub>N</sub> | -0.368                | -0.414           | -0.404           | -0.381           | -0.436          | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>L</sub>  | T <sub>N</sub> | -0.375                | -0.415           | -0.412           | -0.386           | -0.440          | ±5.0        | PASS   |
| TX-ANH         | FM              | V <sub>H</sub>  | T <sub>N</sub> | -0.376                | -0.438           | -0.427           | -0.384           | -0.451          | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>N</sub>  | T <sub>N</sub> | -0.362                | -0.401           | -0.391           | -0.366           | -0.415          | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>L</sub>  | T <sub>N</sub> | -0.369                | -0.406           | -0.398           | -0.368           | -0.422          | ±5.0        | PASS   |
| TX-ANL         | FM              | V <sub>H</sub>  | T <sub>N</sub> | -0.382                | -0.413           | -0.410           | -0.381           | -0.427          | ±5.0        | PASS   |



## Appendix H:Transmitter Frequency Behavior

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                     |
|----------------|-----------------|------------------|--------------------------------------------------------------------------------------|
| TX-DNH         | 4FSK            | CH <sub>M2</sub> |    |
| TX-DNH         | 4FSK            | CH <sub>M2</sub> |   |
| TX-ANH         | FM              | CH <sub>M2</sub> |  |

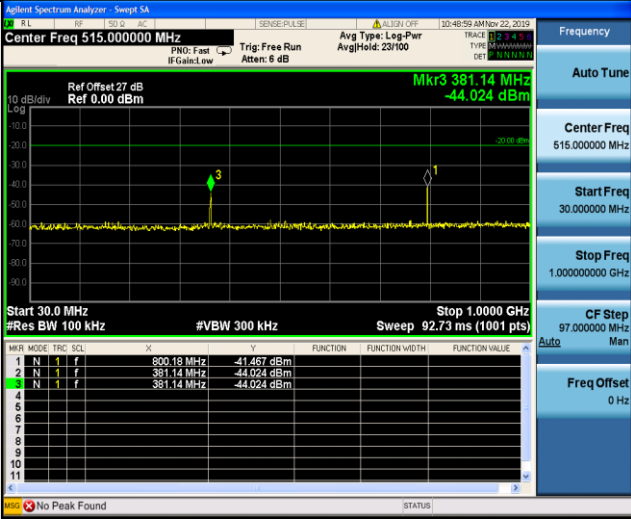
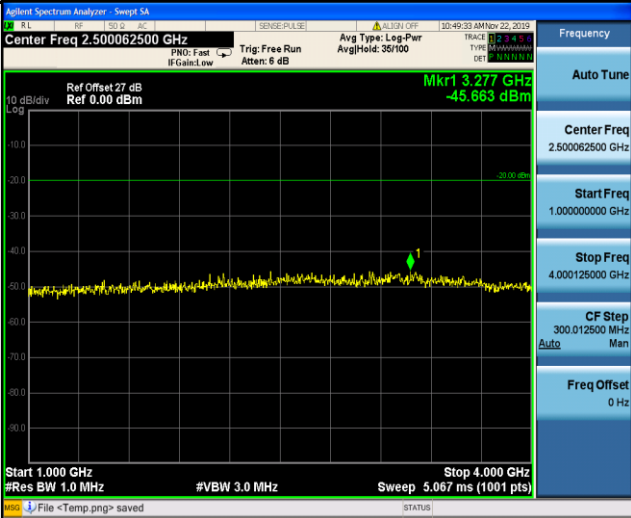
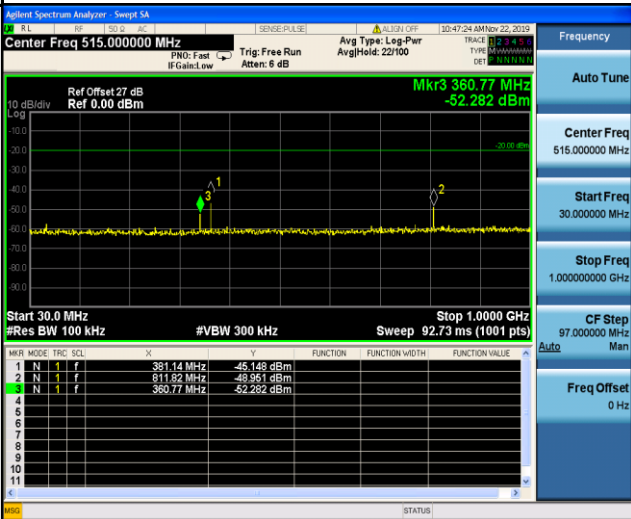


## Appendix H:Transmitter Frequency Behavior

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|-----------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX-ANH         | FM              | CH <sub>M2</sub> | <div><div><div>MultiView</div><div>Spectrum</div><div>Analog Demod</div></div><div><div>Ref Level 39.00 dBm Offset 27.50 dB</div><div>Att 21 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz</div><div>TRIG:FSK (170MHz) VISO:Binary</div></div><div>1 FM Time Domain</div><div><div>12.5 kHz</div><div>9.375 kHz</div><div>6.25 kHz</div><div>3.125 kHz</div><div>0 kHz</div><div>-3.125 kHz</div><div>-6.25 kHz</div><div>-9.375 kHz</div><div>-12.5 kHz</div></div><div><div>CF 406.1125 MHz</div><div>1001 pts</div><div>10.0 ms/</div></div><div>4 Result Summary</div><div><div>Carrier Power 37.27 dBm</div><div>Carrier Offset -209.42 Hz</div></div><div><div>FM</div><div>+Peak 25.89 kHz</div><div>-Peak -17.002 kHz</div><div>+Peak/2 21.446 kHz</div><div>RMS 2.8686 kHz</div><div>Mod. Freq. ---</div><div>SINAD ---</div><div>THD ---</div></div><div>Analog Demod: Waiting for Trigger...</div><div>Measuring...</div><div>21.11.2019 17:19:56</div><div>Date: 21.NOV.2019 17:19:57</div></div> |

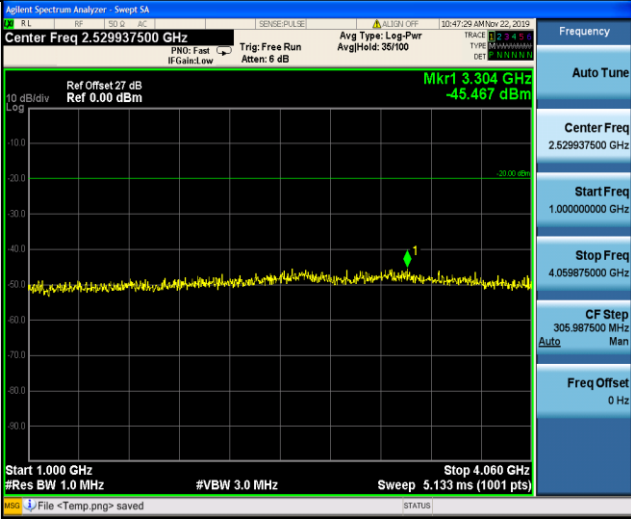
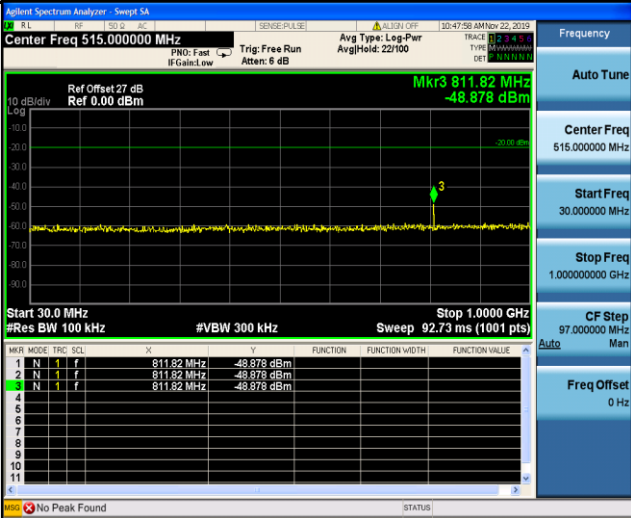


## Appendix I:Spurious Emission On Antenna Port

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                              |
|----------------|-----------------|------------------|---------------------------------------------------------------------------------------------------------------|
| TX-DNH         | 4FSK            | CH <sub>L</sub>  |  <p>30MHz~1GHz</p>          |
| TX-DNH         | 4FSK            | CH <sub>L</sub>  |  <p>1GHz~10th Harmonic</p> |
| TX-DNH         | 4FSK            | CH <sub>M1</sub> |  <p>30MHz~1GHz</p>        |

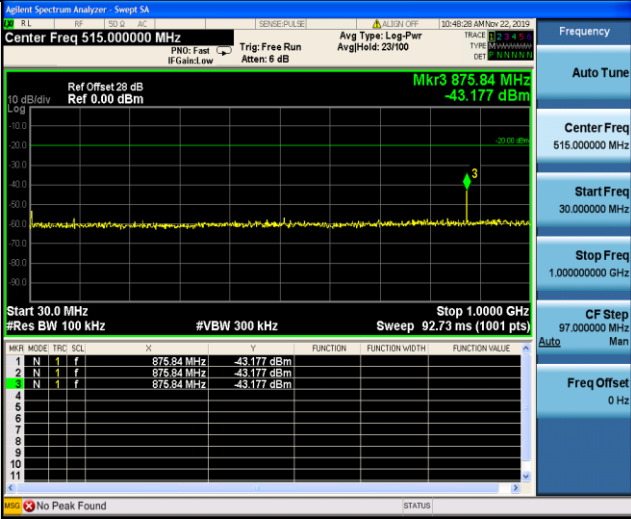
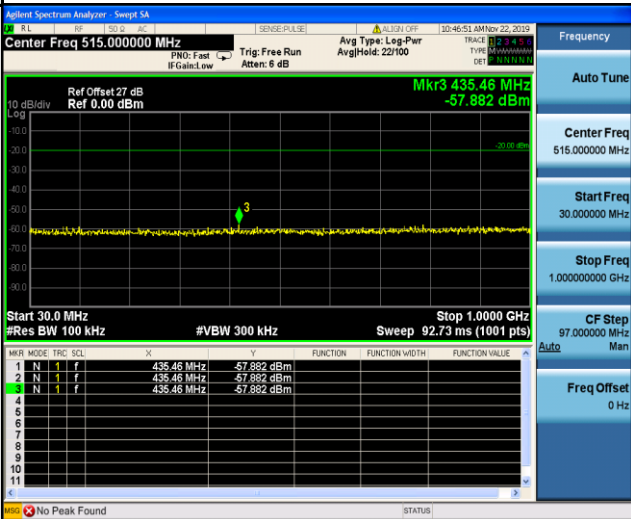


## Appendix I:Spurious Emission On Antenna Port

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                               |
|----------------|-----------------|------------------|----------------------------------------------------------------------------------------------------------------|
| TX-DNH         | 4FSK            | CH <sub>M1</sub> |  <p>1GHz~10th Harmonic</p>   |
| TX-DNH         | 4FSK            | CH <sub>M2</sub> |  <p>30MHz~1GHz</p>          |
| TX-DNH         | 4FSK            | CH <sub>M2</sub> |  <p>1GHz~10th Harmonic</p> |

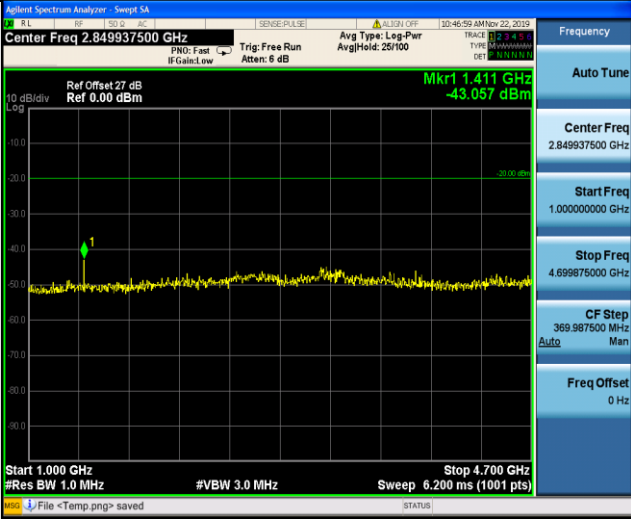
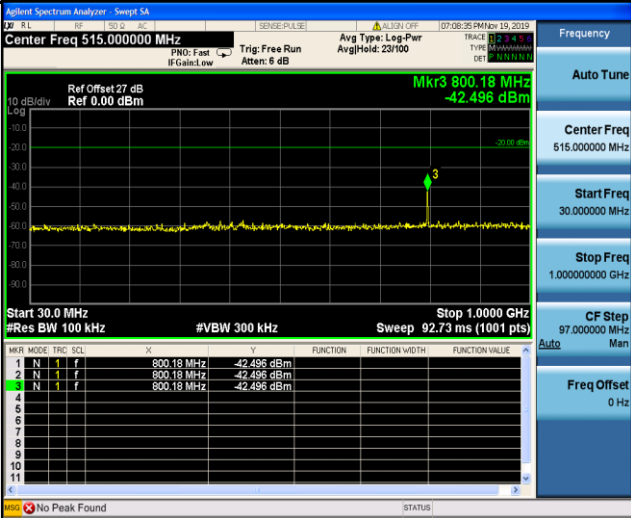
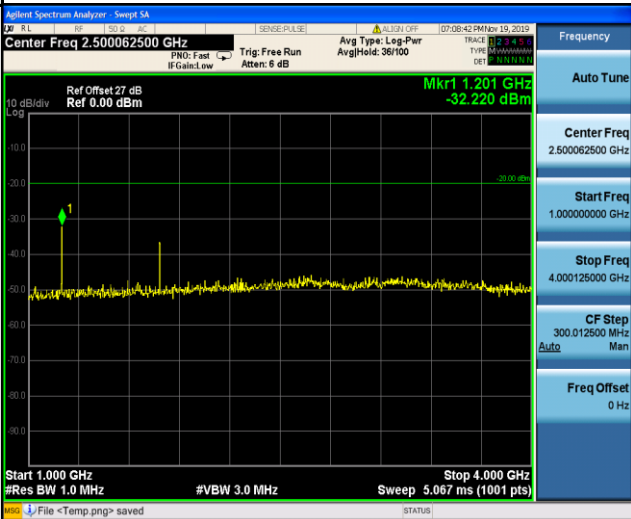


## Appendix I:Spurious Emission On Antenna Port

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                              |
|----------------|-----------------|------------------|---------------------------------------------------------------------------------------------------------------|
| TX-DNH         | 4FSK            | CH <sub>M3</sub> |  <p>30MHz~1GHz</p>          |
| TX-DNH         | 4FSK            | CH <sub>M3</sub> |  <p>1GHz~10th Harmonic</p> |
| TX-DNH         | 4FSK            | CH <sub>H</sub>  |  <p>30MHz~1GHz</p>        |



## Appendix I:Spurious Emission On Antenna Port

| Operation Mode | Modulation Type | Test Channel    | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------|-----------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX-DNH         | 4FSK            | CH <sub>H</sub> |  <p>Agilent Spectrum Analyzer - Swept SA<br/>Center Freq 2.849937500 GHz<br/>PNO: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AvgHold: 25/100<br/>Ref Offset 27 dB Ref 0.00 dBm<br/>Mkr1 1.411 GHz -43.057 dBm<br/>Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 6.200 ms (1001 pts)<br/>File &lt;Temp.png&gt; saved</p> <p>1GHz~10th Harmonic</p>                                                                                                                                                                                                      |
| TX-ANH         | FM              | CH <sub>L</sub> |  <p>Agilent Spectrum Analyzer - Swept SA<br/>Center Freq 515.000000 MHz<br/>PNO: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AvgHold: 23/100<br/>Ref Offset 27 dB Ref 0.00 dBm<br/>Mkr3 800.18 MHz -42.496 dBm<br/>Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts)<br/>Mkr MODE TRG SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE<br/>1 N 1 f 800.18 MHz -42.496 dBm<br/>2 N 1 f 800.18 MHz -42.496 dBm<br/>3 N 1 f 800.18 MHz -42.496 dBm<br/>4<br/>5<br/>6<br/>7<br/>8<br/>9<br/>10<br/>11<br/>No Peak Found</p> <p>30MHz~1GHz</p> |
| TX-ANH         | FM              | CH <sub>L</sub> |  <p>Agilent Spectrum Analyzer - Swept SA<br/>Center Freq 2.500062500 GHz<br/>PNO: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AvgHold: 36/100<br/>Ref Offset 27 dB Ref 0.00 dBm<br/>Mkr1 1.201 GHz -32.220 dBm<br/>Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.067 ms (1001 pts)<br/>File &lt;Temp.png&gt; saved</p> <p>1GHz~10th Harmonic</p>                                                                                                                                                                                                    |



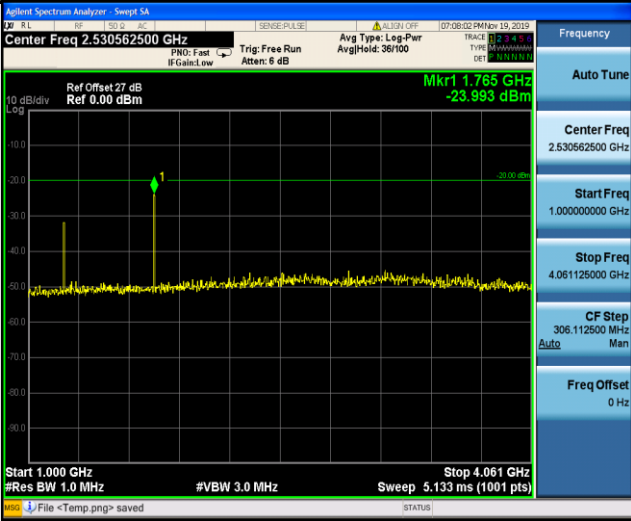
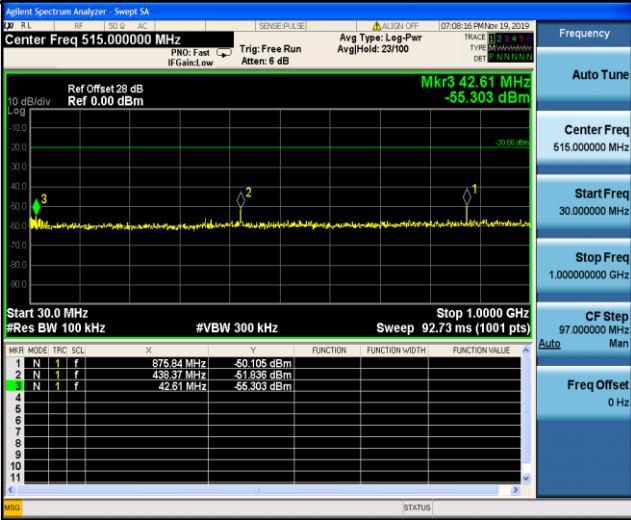
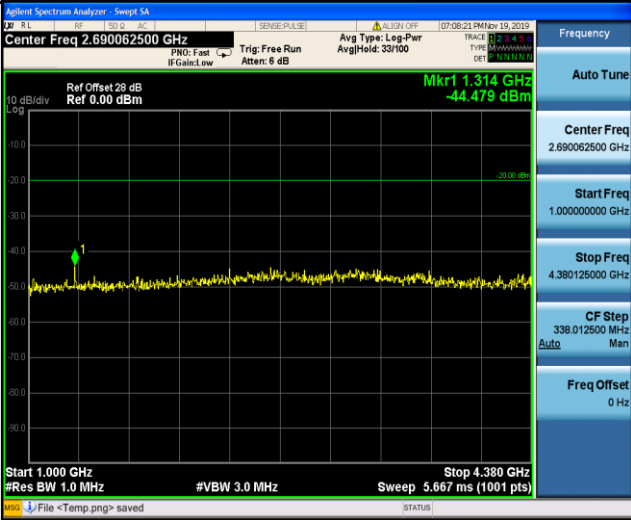
Appendix I:Spurious Emission On Antenna Port

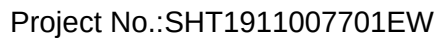
| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                      |
|----------------|-----------------|------------------|---------------------------------------|
| TX-ANH         | FM              | CH <sub>M1</sub> | <div></div> <p>30MHz~1GHz</p>         |
| TX-ANH         | FM              | CH <sub>M1</sub> | <div></div> <p>1GHz~10th Harmonic</p> |
| TX-ANH         | FM              | CH <sub>M2</sub> | <div></div> <p>30MHz~1GHz</p>         |





Appendix I:Spurious Emission On Antenna Port

| Operation Mode | Modulation Type | Test Channel     | TEST PLOT RESULT                                                                                                              |
|----------------|-----------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|
| TX-ANH         | FM              | CH <sub>M2</sub> | <div></div> <div>1GHz~10th Harmonic</div>   |
| TX-ANH         | FM              | CH <sub>M3</sub> | <div></div> <div>30MHz~1GHz</div>          |
| TX-ANH         | FM              | CH <sub>M3</sub> | <div></div> <div>1GHz~10th Harmonic</div> |



| Operation Mode | Modulation Type | Test Channel    | TEST PLOT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------|-----------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX-ANH         | FM              | CH <sub>H</sub> |  <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 515.000000 MHz</p> <p>Ref Offset 27 dB<br/>Ref 0.00 dBm</p> <p>Mkr3 939.86 MHz<br/>-56.331 dBm</p> <p>Start 30.0 MHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Sweep 92.73 ms (1001 pts)</p> <p>Stop 1.0000 GHz</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 97.000000 MHz</p> <p>Freq Offset 0 Hz</p> <p>30MHz~1GHz</p>              |
| TX-ANH         | FM              | CH <sub>H</sub> |  <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Center Freq 2.849937500 GHz</p> <p>Ref Offset 27 dB<br/>Ref 0.00 dBm</p> <p>Mkr1 1.411 GHz<br/>-44.043 dBm</p> <p>Start 1.000 GHz<br/>#Res BW 1.0 MHz<br/>#VBW 3.0 MHz<br/>Sweep 6.200 ms (1001 pts)</p> <p>Stop 4.700 GHz</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.849937500 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 4.699875000 GHz</p> <p>CF Step 369.987500 MHz</p> <p>Freq Offset 0 Hz</p> <p>1GHz~10th Harmonic</p> |

-----End of Report-----