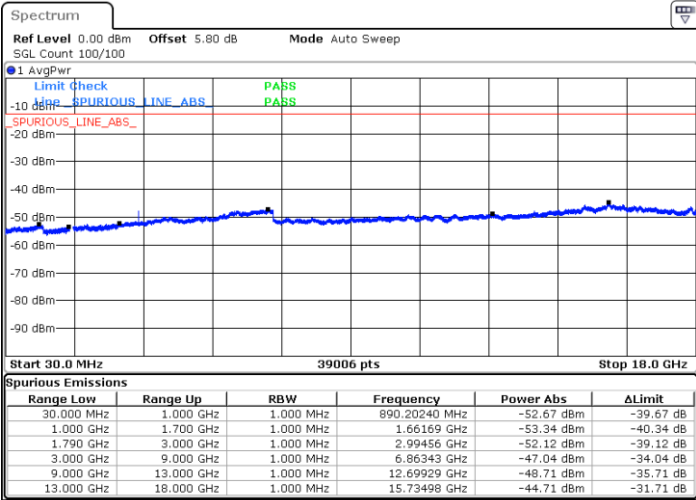




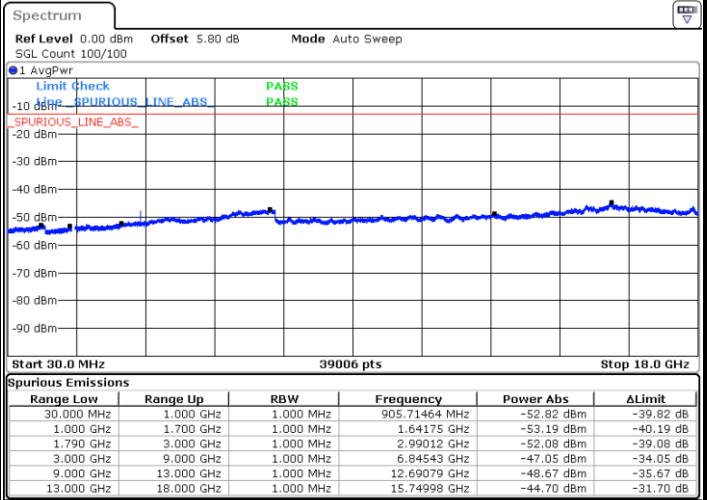
LTE Band 66 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



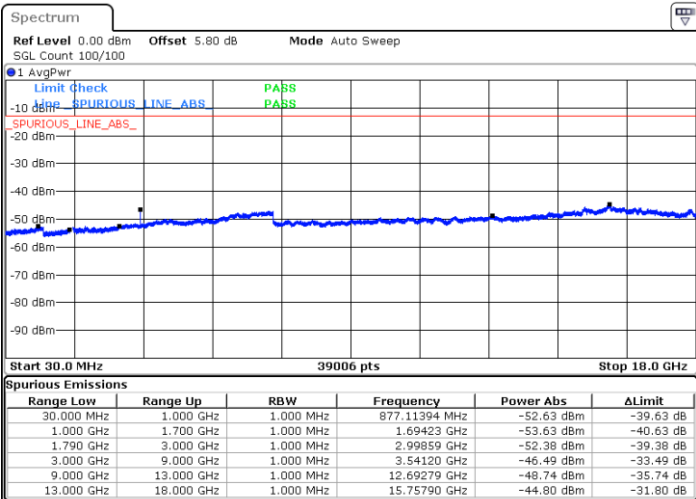
Date: 12 JUL 2019 03:45:25



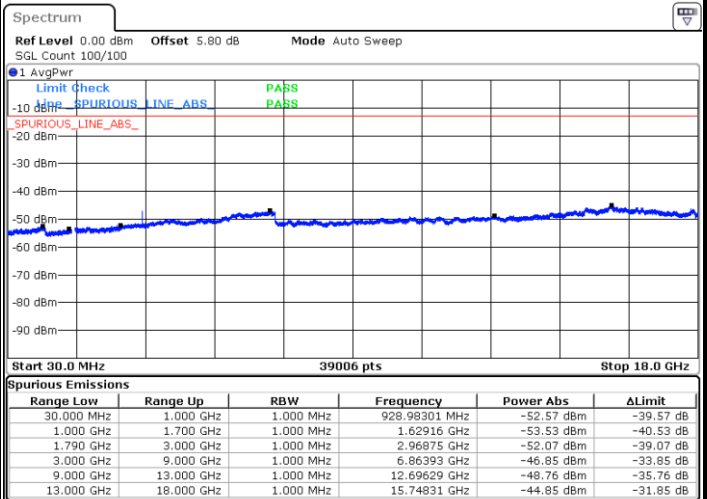
Date: 12 JUL 2019 03:46:57

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 12 JUL 2019 07:53:57



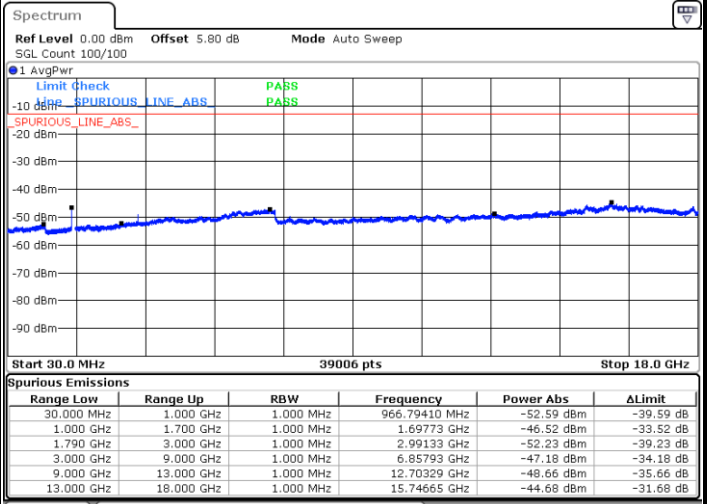
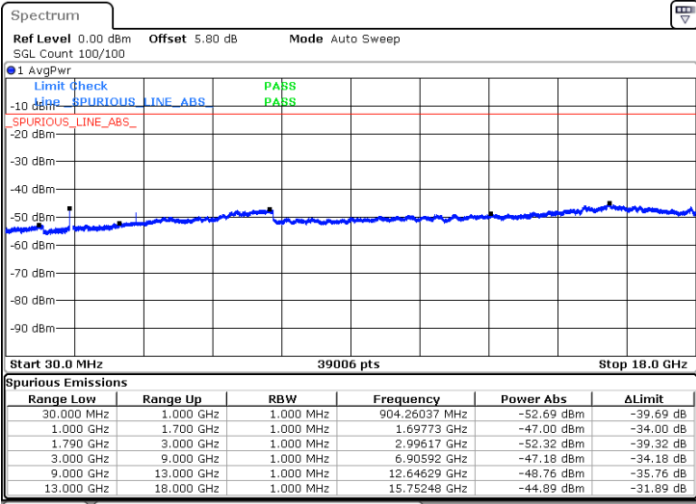
Date: 12 JUL 2019 07:54:35



LTE Band 66 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

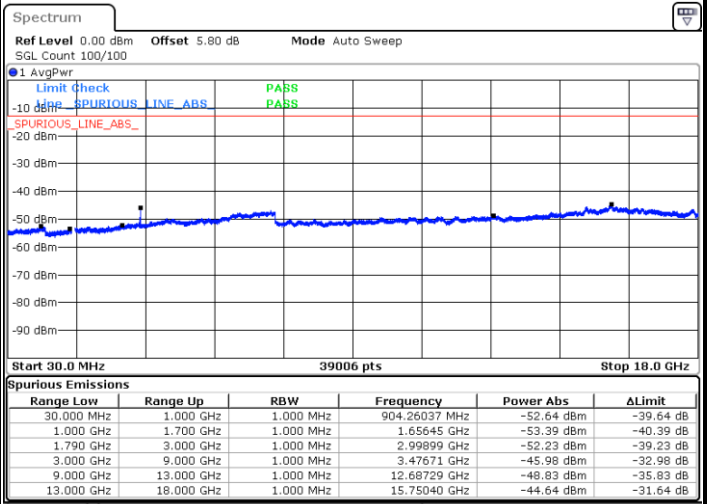
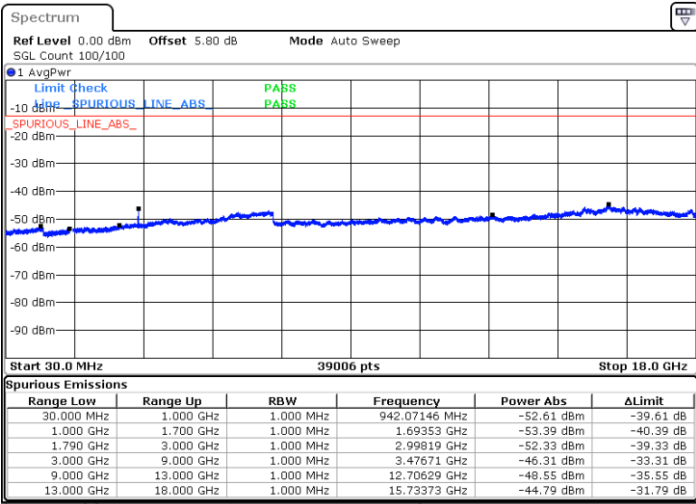


Date: 12 JUL 2019 03:59:25

Date: 12 JUL 2019 03:58:29

Middle Channel / QPSK

Middle Channel / 16QAM



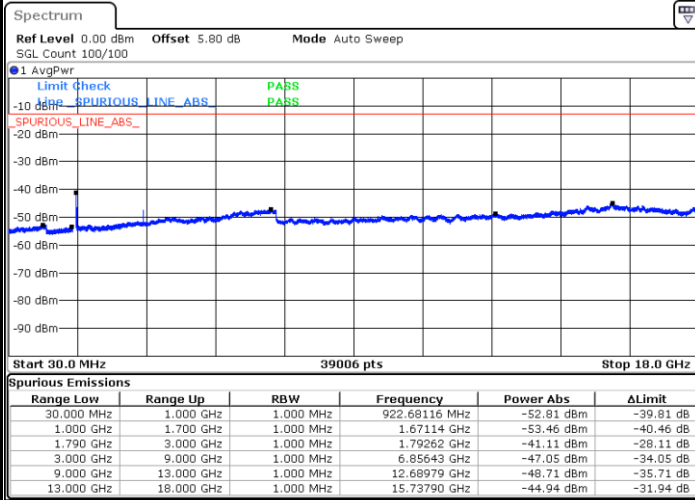
Date: 12 JUL 2019 04:00:35

Date: 12 JUL 2019 04:01:12



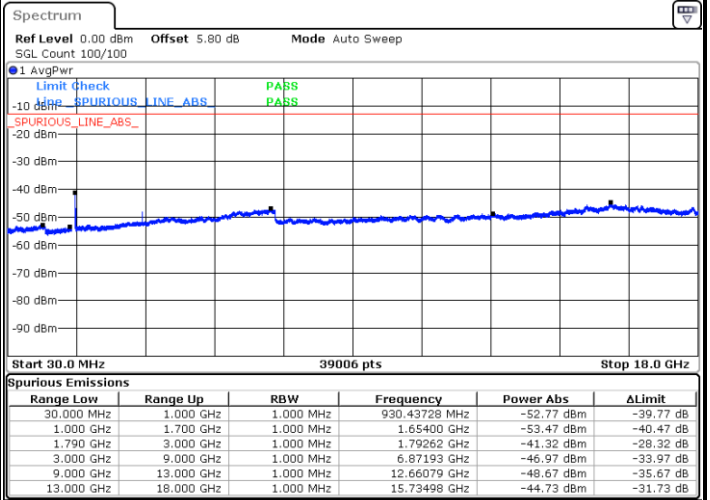
LTE Band 66 / 15MHz

Highest Channel / QPSK



Date: 12 JUL 2019 04:06:21

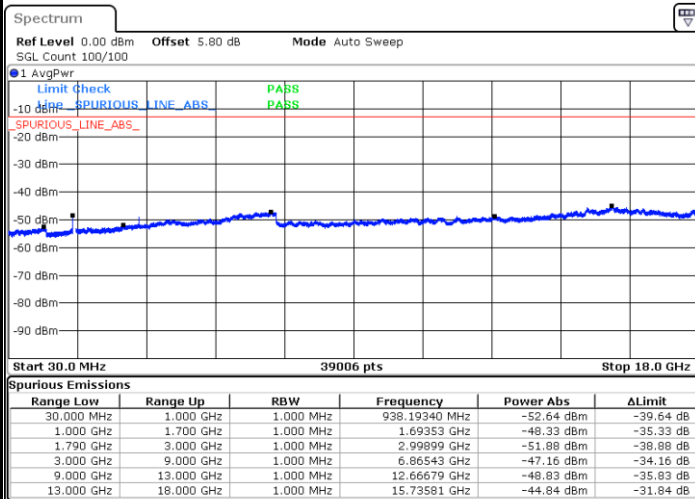
Highest Channel / 16QAM



Date: 12 JUL 2019 04:07:07

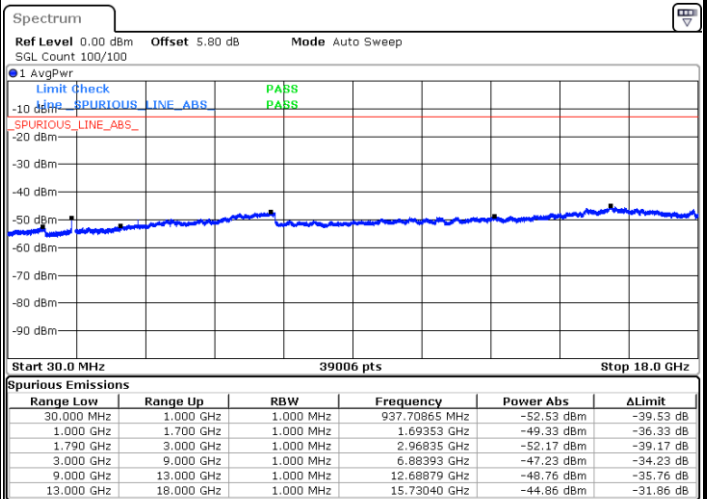
LTE Band 66 / 20MHz

Lowest Channel / QPSK



Date: 12 JUL 2019 04:29:07

Lowest Channel / 16QAM



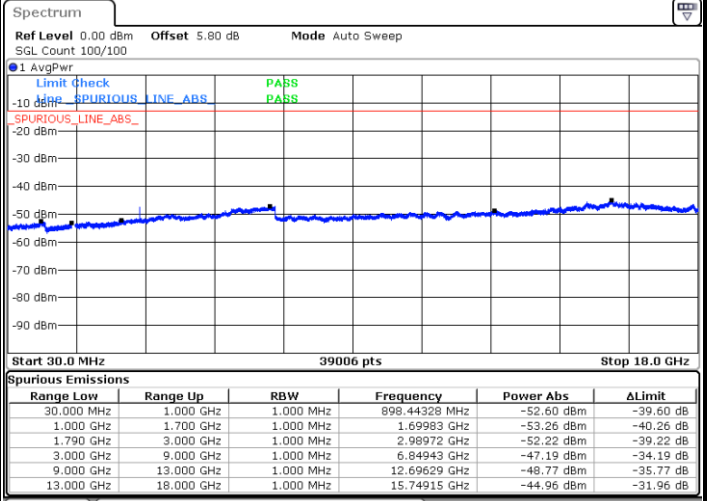
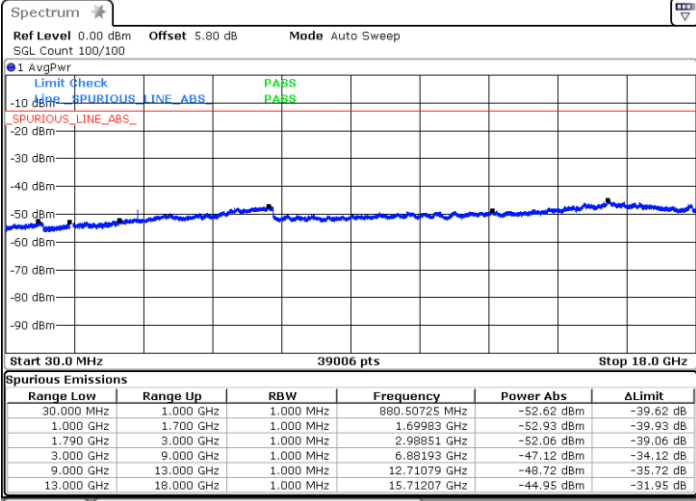
Date: 12 JUL 2019 04:30:10



LTE Band 66 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

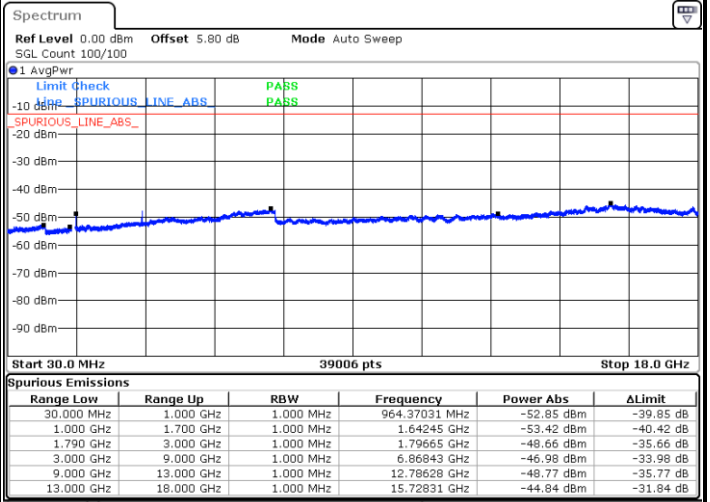
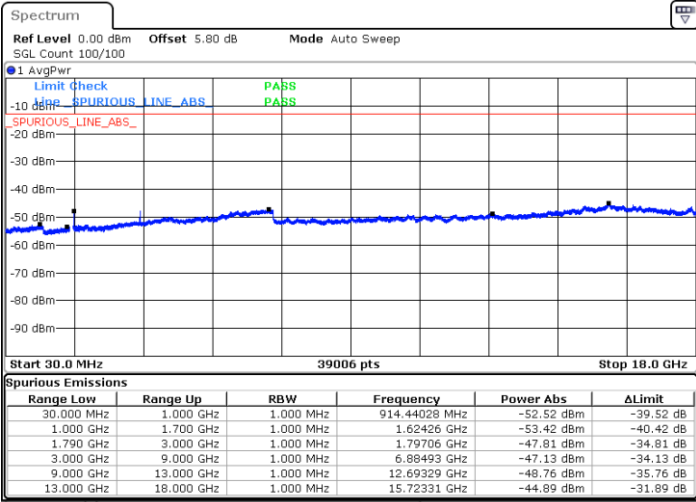


Date: 12 JUL 2019 04:27:07

Date: 12 JUL 2019 04:27:47

Highest Channel / QPSK

Highest Channel / 16QAM

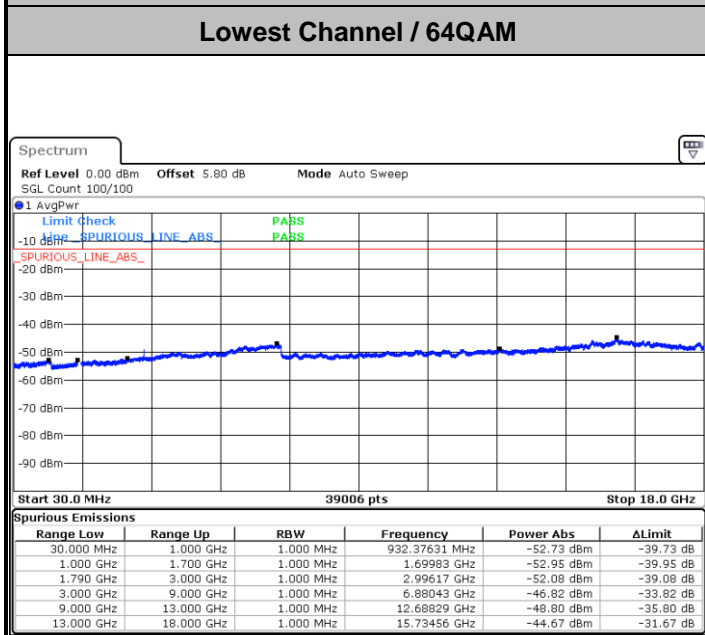


Date: 12 JUL 2019 04:24:44

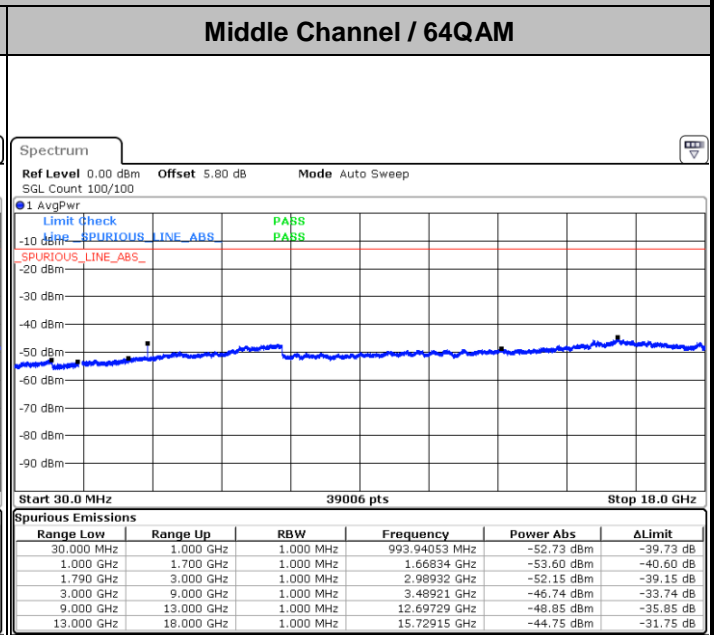
Date: 12 JUL 2019 04:23:58



LTE Band 66 / 1.4MHz

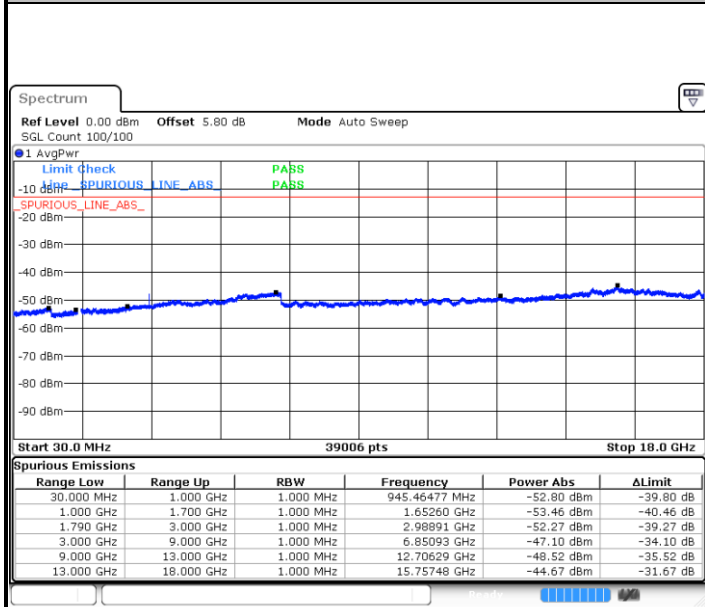


Date: 12 JUL 2019 02:29:56



Date: 12 JUL 2019 02:45:35

Highest Channel / 64QAM



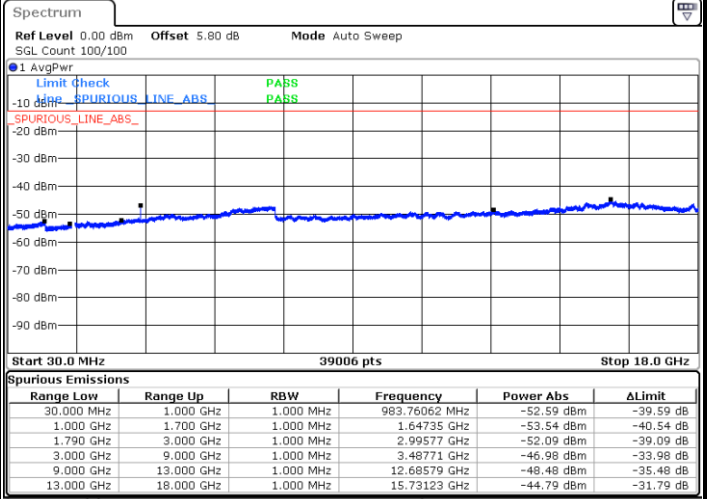
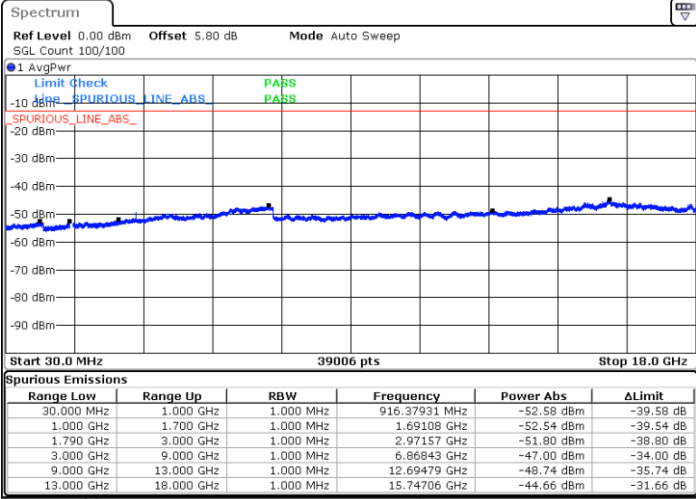
Date: 12 JUL 2019 02:57:30



LTE Band 66 / 3MHz

Lowest Channel / 64QAM

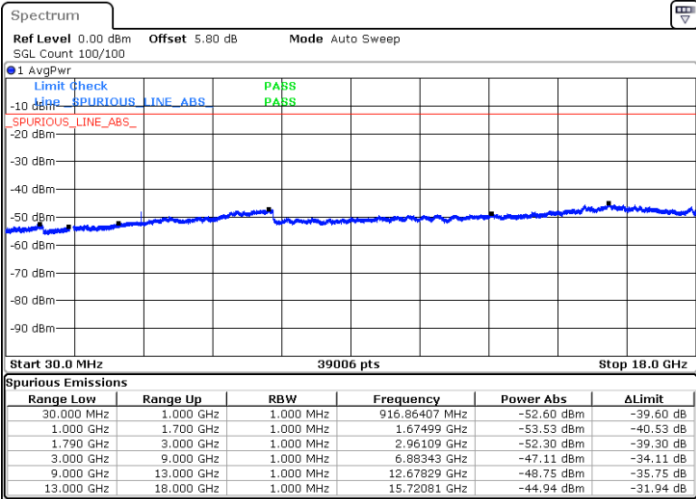
Middle Channel / 64QAM



Date: 12 JUL 2019 03:03:33

Date: 12 JUL 2019 03:08:56

Highest Channel / 64QAM



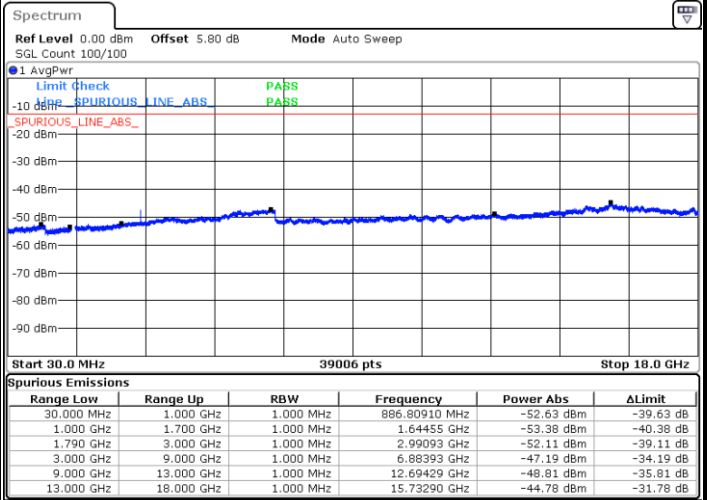
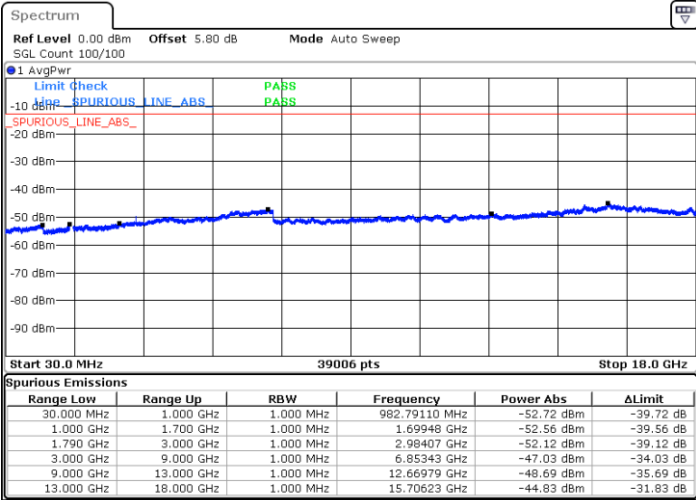
Date: 12 JUL 2019 03:21:21



LTE Band 66 / 5MHz

Lowest Channel / 64QAM

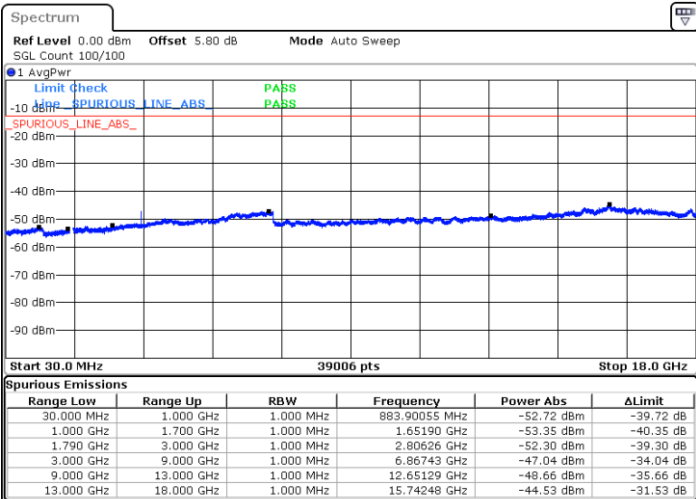
Middle Channel / 64QAM



Date: 12 JUL 2019 03:25:29

Date: 12 JUL 2019 03:29:07

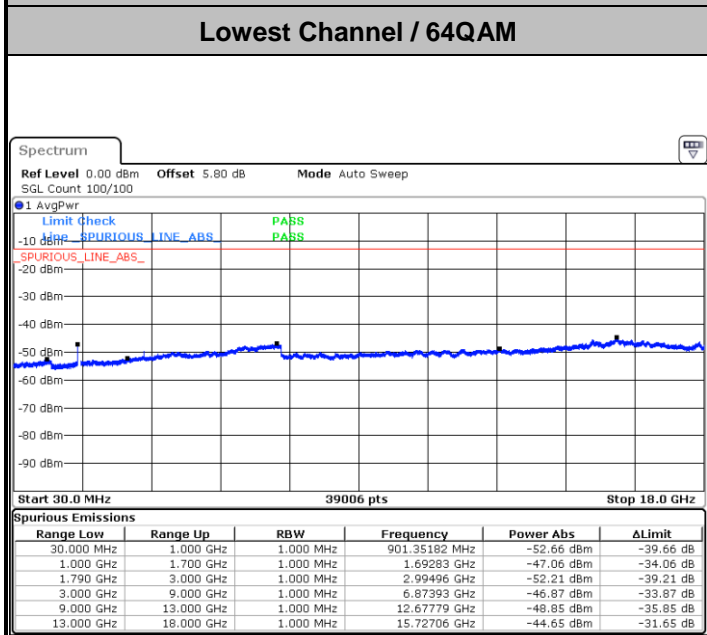
Highest Channel / 64QAM



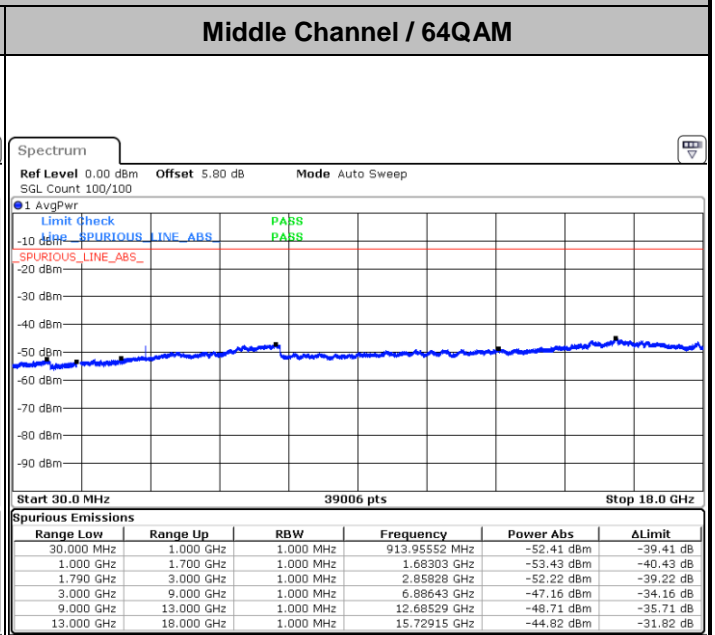
Date: 12 JUL 2019 03:33:12



LTE Band 66 / 10MHz

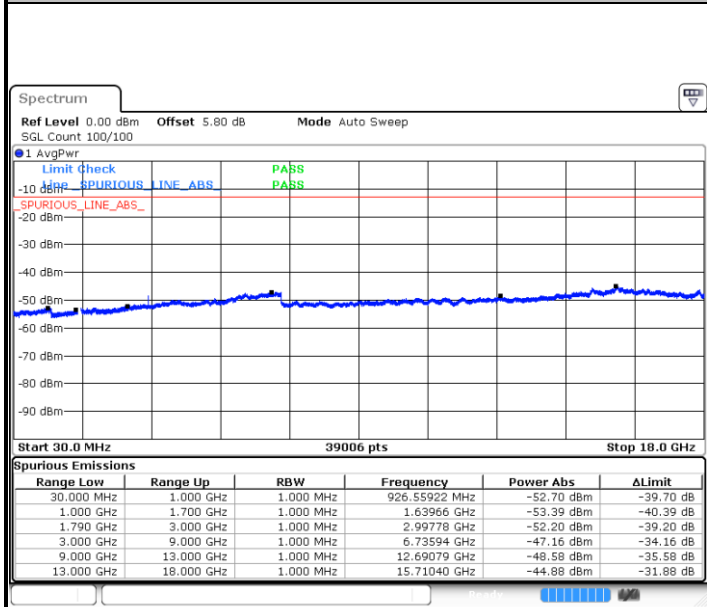


Date: 12 JUL 2019 03:41:22



Date: 12 JUL 2019 03:48:04

Highest Channel / 64QAM



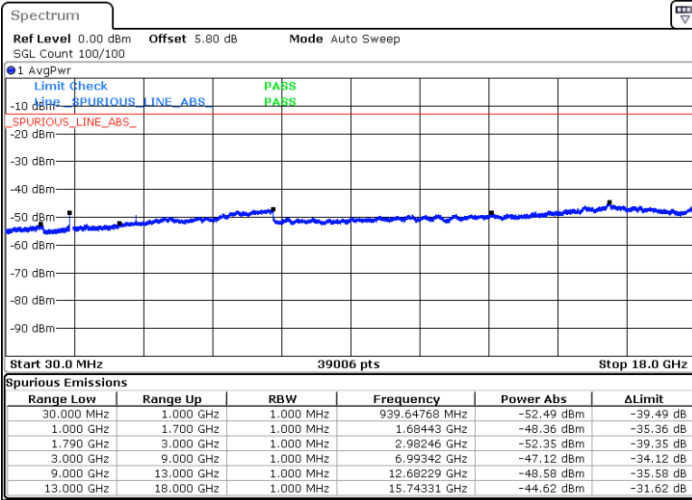
Date: 12 JUL 2019 07:55:17



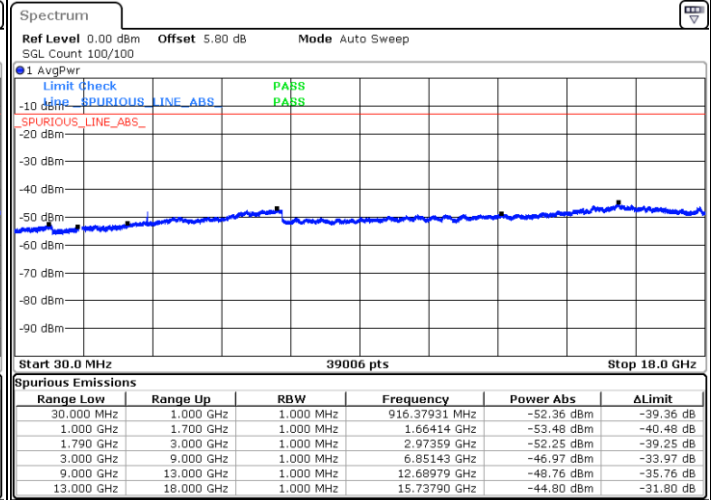
LTE Band 66 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

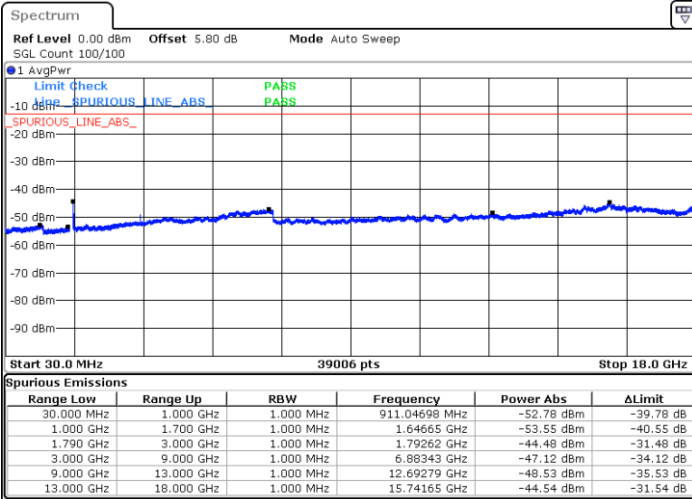


Date: 12 JUL 2019 03:57:45



Date: 12 JUL 2019 04:01:50

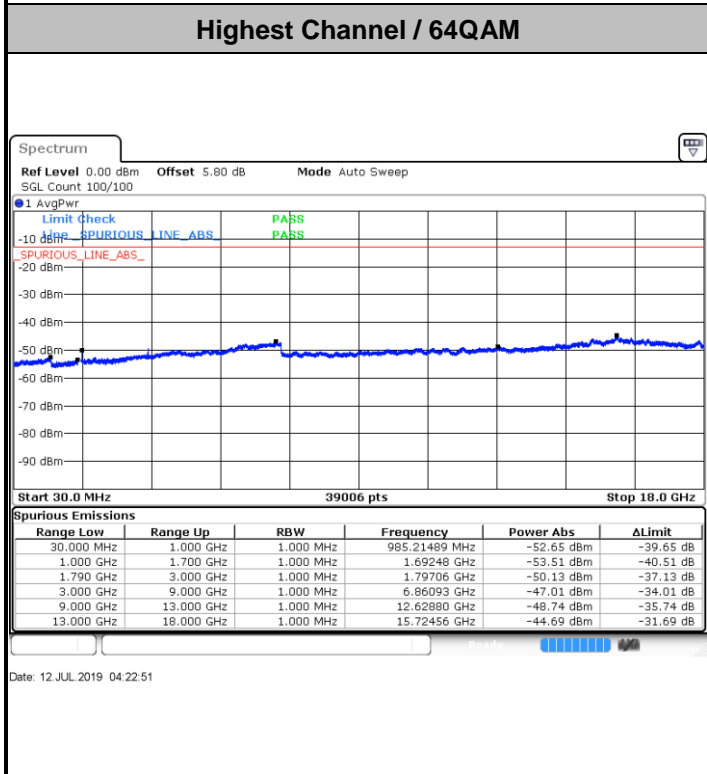
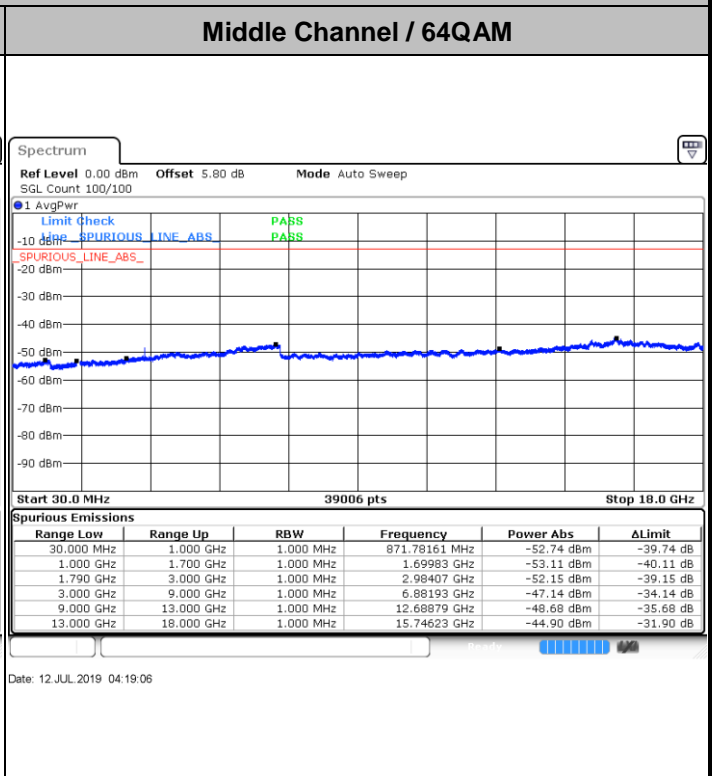
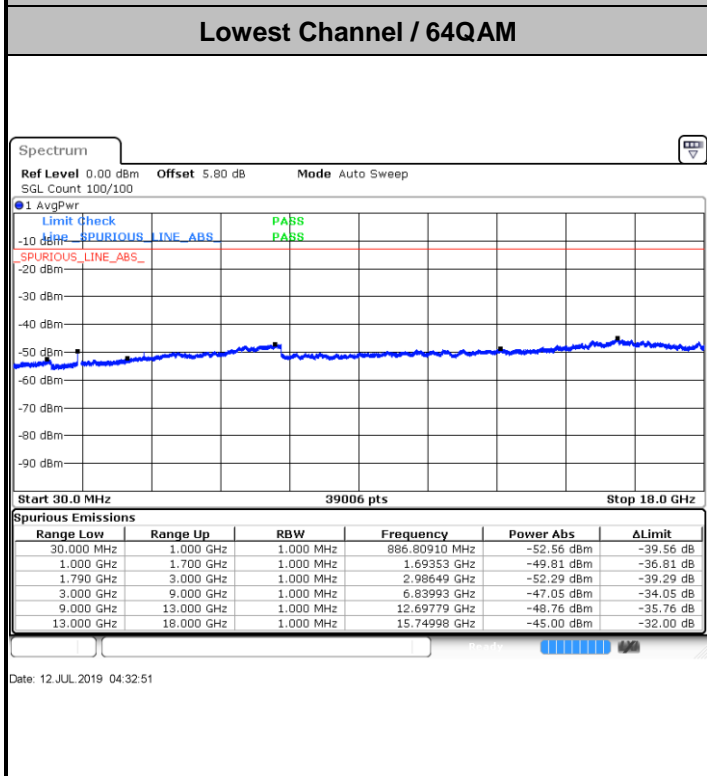
Highest Channel / 64QAM



Date: 12 JUL 2019 04:07:42



LTE Band 66 / 20MHz





Frequency Stability

| Test Conditions | | LTE Band 2 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|------------------------------------|--------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | 2.5ppm |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0003 | PASS |
| 40 | Normal Voltage | 0.0044 | |
| 30 | Normal Voltage | 0.0007 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0016 | |
| 0 | Normal Voltage | 0.0009 | |
| -10 | Normal Voltage | 0.0025 | |
| -20 | Normal Voltage | 0.0025 | |
| -30 | Normal Voltage | 0.0037 | |
| 20 | Maximum Voltage | 0.0002 | |
| 20 | Normal Voltage | 0.0009 | |
| 20 | Battery End Point | 0.0012 | |

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions | | LTE Band 5 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|------------------------------------|--------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | 2.5ppm |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0001 | PASS |
| 40 | Normal Voltage | 0.0014 | |
| 30 | Normal Voltage | 0.0048 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0056 | |
| 0 | Normal Voltage | 0.0059 | |
| -10 | Normal Voltage | 0.0052 | |
| -20 | Normal Voltage | 0.0023 | |
| -30 | Normal Voltage | 0.0010 | |
| 20 | Maximum Voltage | 0.0053 | |
| 20 | Normal Voltage | 0.0059 | |
| 20 | Battery End Point | 0.0014 | |

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions | | LTE Band 7 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0029 | PASS |
| 40 | Normal Voltage | 0.0023 | |
| 30 | Normal Voltage | 0.0013 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0032 | |
| 0 | Normal Voltage | 0.0019 | |
| -10 | Normal Voltage | 0.0006 | |
| -20 | Normal Voltage | 0.0023 | |
| -30 | Normal Voltage | 0.0022 | |
| 20 | Maximum Voltage | 0.0011 | |
| 20 | Normal Voltage | 0.0026 | |
| 20 | Battery End Point | 0.0005 | |

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions | | LTE Band 12 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0029 | PASS |
| 40 | Normal Voltage | 0.0021 | |
| 30 | Normal Voltage | 0.0013 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0031 | |
| 0 | Normal Voltage | 0.0019 | |
| -10 | Normal Voltage | 0.0006 | |
| -20 | Normal Voltage | 0.0022 | |
| -30 | Normal Voltage | 0.0021 | |
| 20 | Maximum Voltage | 0.0010 | |
| 20 | Normal Voltage | 0.0026 | |
| 20 | Battery End Point | 0.0005 | |

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



| Test Conditions | | LTE Band 66 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0001 | PASS |
| 40 | Normal Voltage | 0.0020 | |
| 30 | Normal Voltage | 0.0048 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0056 | |
| 0 | Normal Voltage | 0.0057 | |
| -10 | Normal Voltage | 0.0053 | |
| -20 | Normal Voltage | 0.0024 | |
| -30 | Normal Voltage | 0.0010 | |
| 20 | Maximum Voltage | 0.0052 | |
| 20 | Normal Voltage | 0.0059 | |
| 20 | Battery End Point | 0.0012 | |

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

| LTE Band 2 / 20MHz / QPSK | | | | | | | | |
|---------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3741 | -56.84 | -13 | -43.84 | -69.10 | 2.641 | 14.90 | H |
| | 5613 | -54.48 | -13 | -41.48 | -66.34 | 2.94 | 14.80 | H |
| | 7488 | -52.01 | -13 | -39.01 | -61.78 | 3.39 | 13.16 | H |
| | 3741 | -58.82 | -13 | -45.82 | -71.08 | 2.64 | 14.90 | V |
| | 5613 | -56.32 | -13 | -43.32 | -68.18 | 2.94 | 14.80 | V |
| | 7488 | -51.90 | -13 | -38.90 | -61.67 | 3.39 | 13.16 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 5 / 10MHz / QPSK | | | | | | | | |
|---------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1664 | -67.71 | -13 | -54.71 | -74.68 | 1.58 | 10.70 | H |
| | 2496 | -56.49 | -13 | -43.49 | -64.74 | 2.102 | 12.50 | H |
| | 3330 | -65.28 | -13 | -52.28 | -74.17 | 2.856 | 13.90 | H |
| | 1664 | -68.64 | -13 | -55.64 | -75.61 | 1.58 | 10.70 | V |
| | 2496 | -56.98 | -13 | -43.98 | -65.23 | 2.10 | 12.50 | V |
| | 3330 | -65.35 | -13 | -52.35 | -74.24 | 2.86 | 13.90 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 7 / 20MHz / QPSK | | | | | | | | |
|---------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 5052 | -65.16 | -25 | -40.16 | -75.37 | 3.03 | 13.24 | H |
| | 7576 | -60.28 | -25 | -35.28 | -69.73 | 3.56 | 13.01 | H |
| | 10100 | -53.45 | -25 | -28.45 | -62.97 | 3.92 | 13.44 | H |
| | 5052 | -63.48 | -25 | -38.48 | -73.69 | 3.03 | 13.24 | V |
| | 7576 | -58.78 | -25 | -33.78 | -68.23 | 3.56 | 13.01 | V |
| | 10100 | -56.87 | -25 | -31.87 | -66.39 | 3.92 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 12 / 10MHz / QPSK | | | | | | | | |
|----------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1406 | -68.54 | -13 | -55.54 | -75.51 | 1.58 | 10.70 | H |
| | 2110 | -58.98 | -13 | -45.98 | -67.23 | 2.102 | 12.50 | H |
| | 2812 | -64.78 | -13 | -51.78 | -73.67 | 2.856 | 13.90 | H |
| | 1406 | -68.22 | -13 | -55.22 | -75.19 | 1.58 | 10.70 | V |
| | 2110 | -61.64 | -13 | -48.64 | -69.89 | 2.10 | 12.50 | V |
| | 2812 | -65.25 | -13 | -52.25 | -74.14 | 2.86 | 13.90 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 66 / 20MHz / QPSK | | | | | | | | |
|----------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3471 | -63.10 | -13 | -50.10 | -73.84 | 2.604 | 13.34 | H |
| | 5208 | -58.64 | -13 | -45.64 | -69.15 | 3.011 | 13.52 | H |
| | 6948 | -55.17 | -13 | -42.17 | -65.37 | 3.271 | 13.47 | H |
| | 3471 | -60.13 | -13 | -47.13 | -70.87 | 2.604 | 13.34 | V |
| | 5208 | -58.49 | -13 | -45.49 | -69.00 | 3.011 | 13.52 | V |
| | 6948 | -54.86 | -13 | -41.86 | -65.06 | 3.271 | 13.47 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.