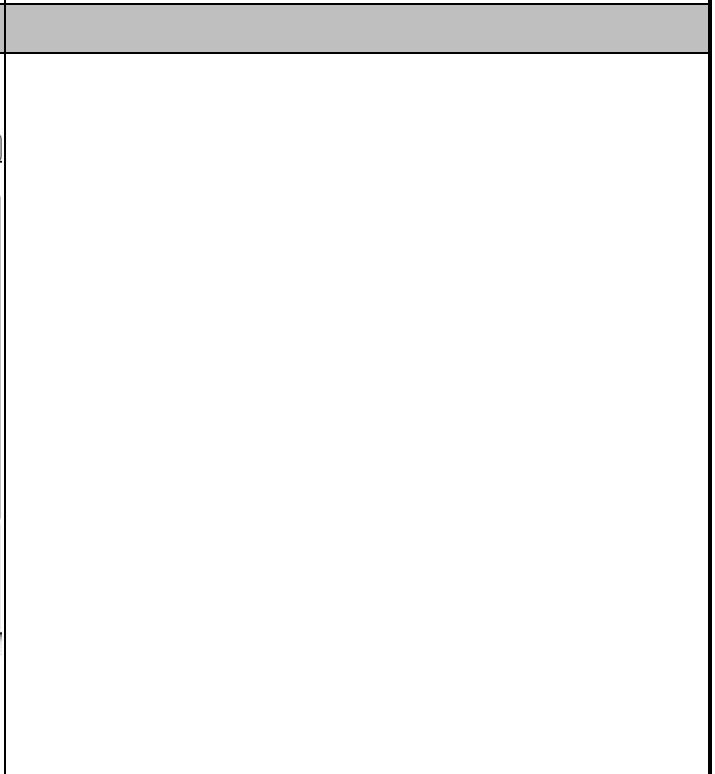
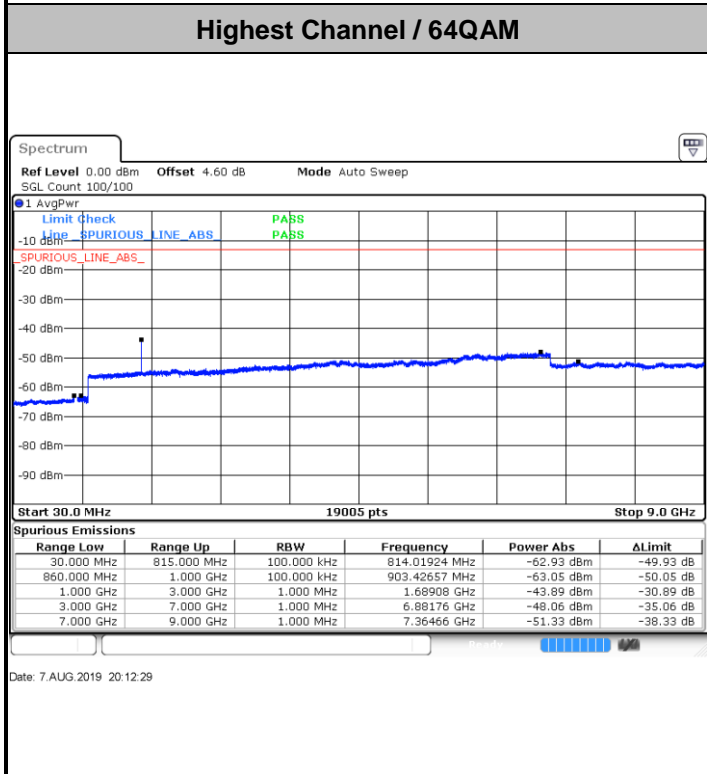
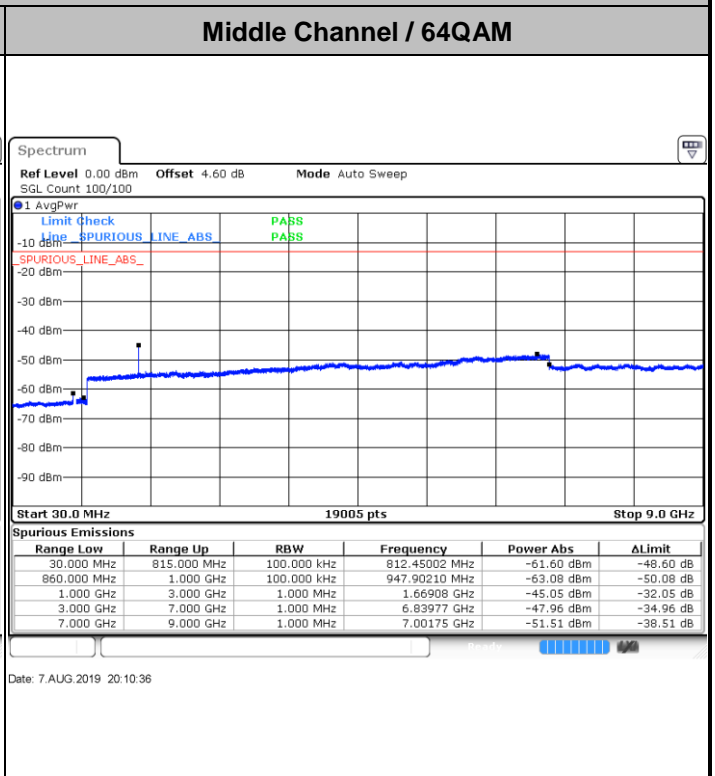
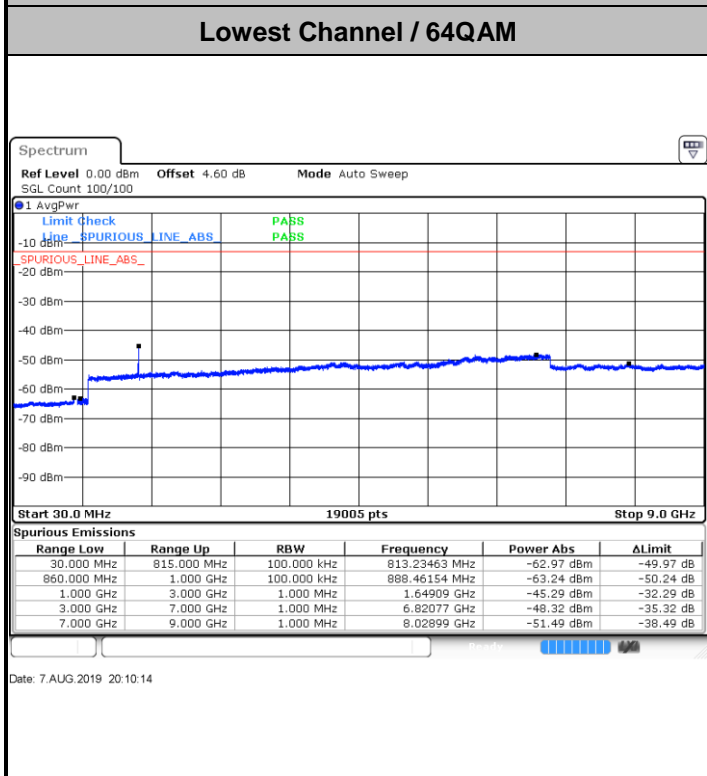
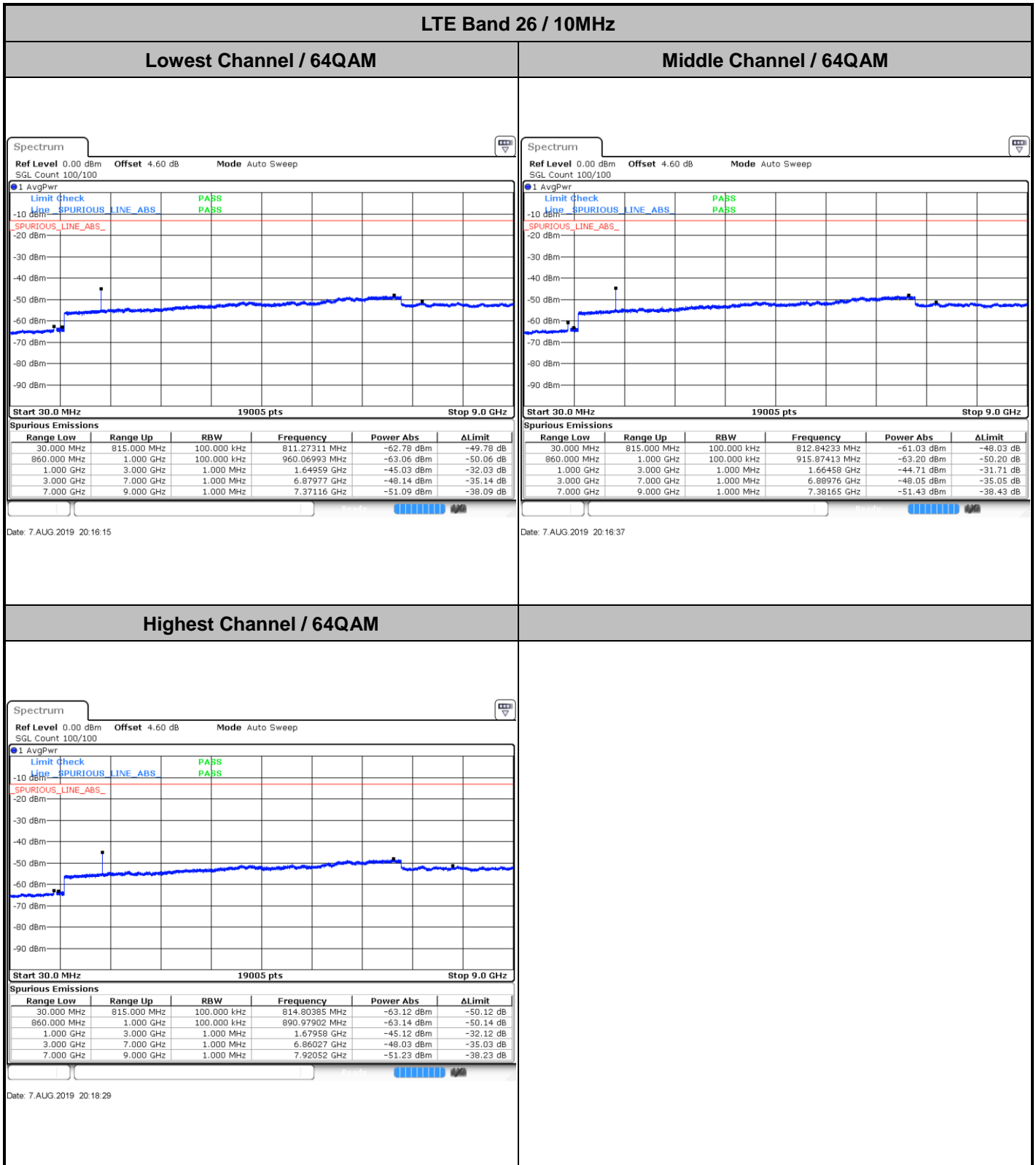




LTE Band 26 / 5MHz



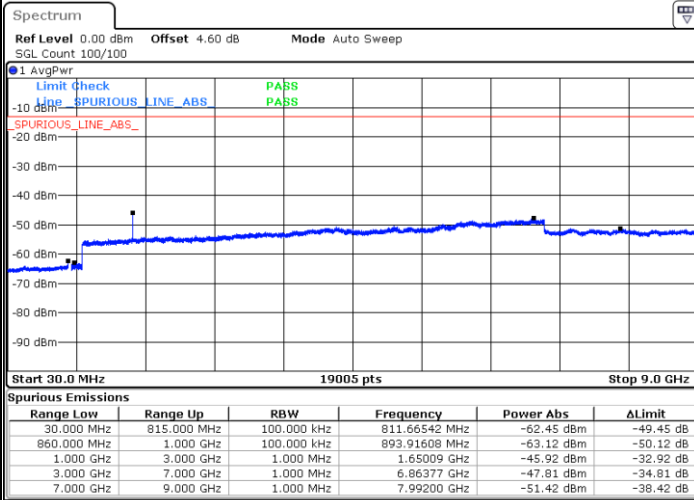




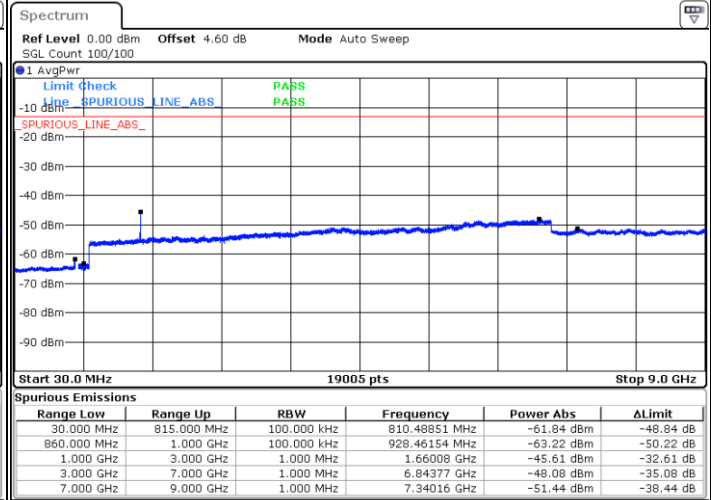
LTE Band 26 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

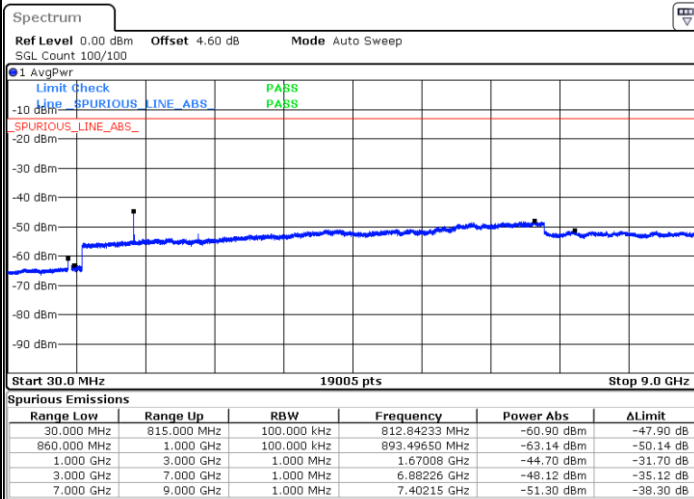


Date: 7.AUG.2019 20:22:12



Date: 7.AUG.2019 20:22:34

Highest Channel / 64QAM



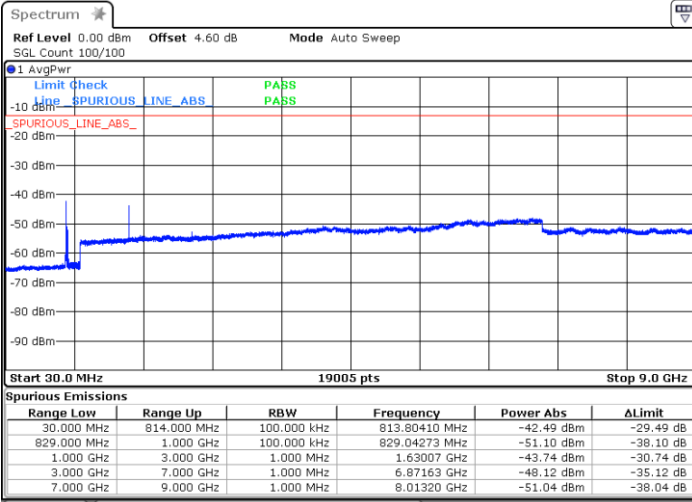
Date: 7.AUG.2019 20:24:27



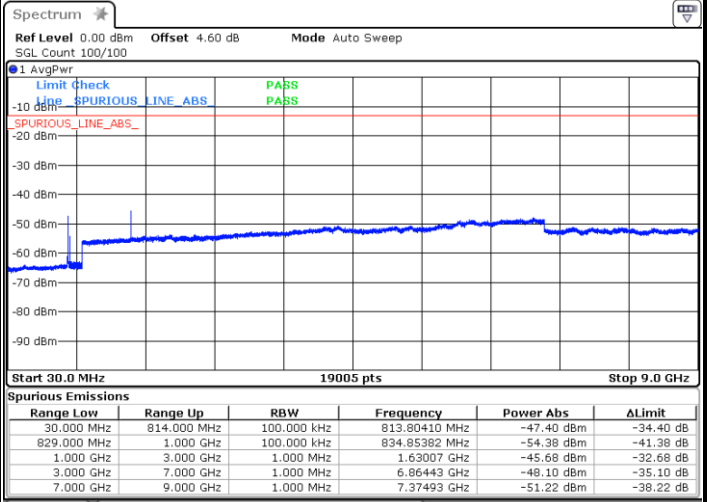
LTE Band 26

CH26765 / QPSK

CH26765 / 64QAM

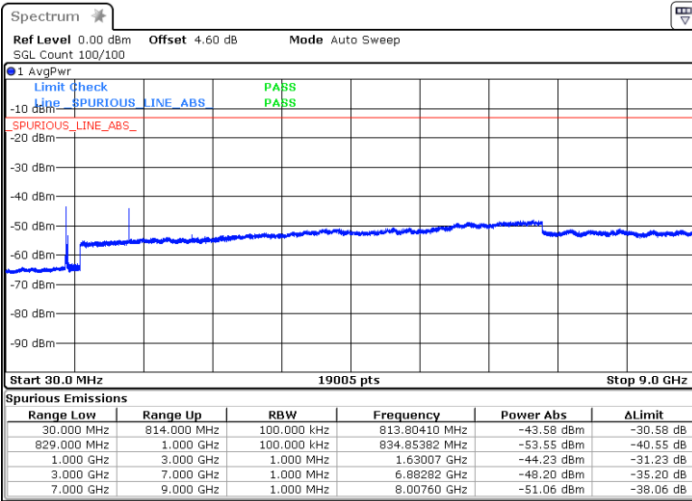


Date: 8.AUG.2019 01:20:02



Date: 8.AUG.2019 01:17:33

CH26765 / 16QAM

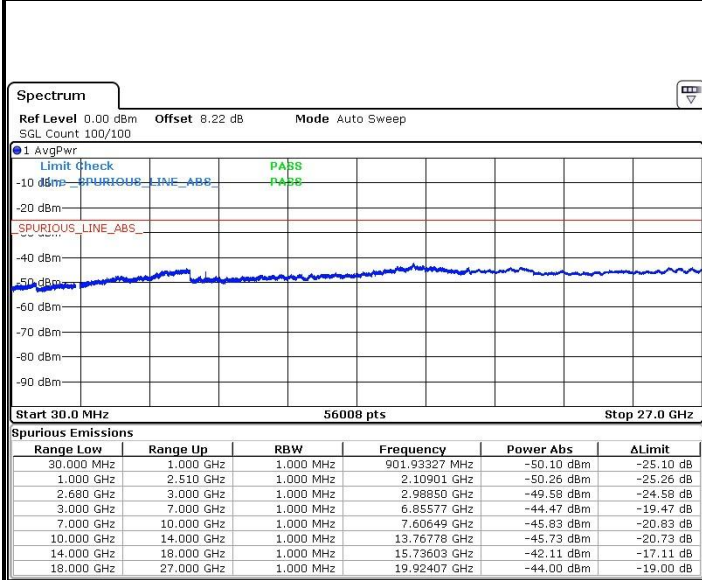


Date: 8.AUG.2019 01:16:27



LTE Band 41 / 5MHz

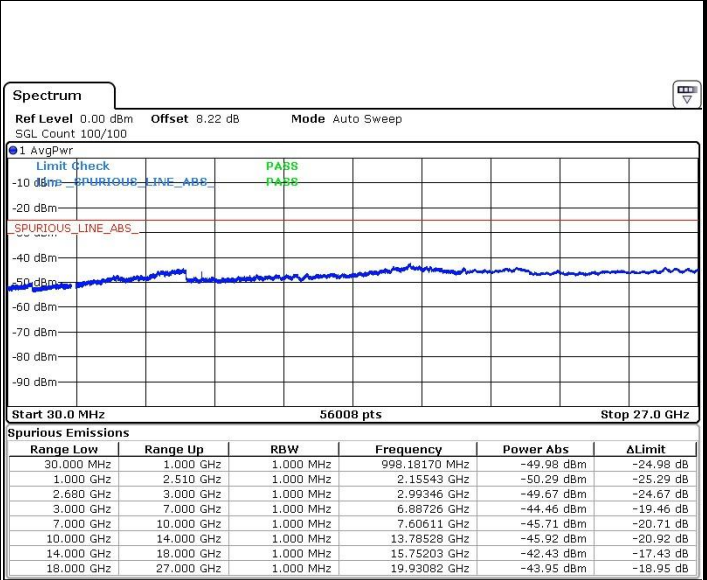
Lowest Channel / QPSK



Ready

Date: 20.AUG.2019 13:23:20

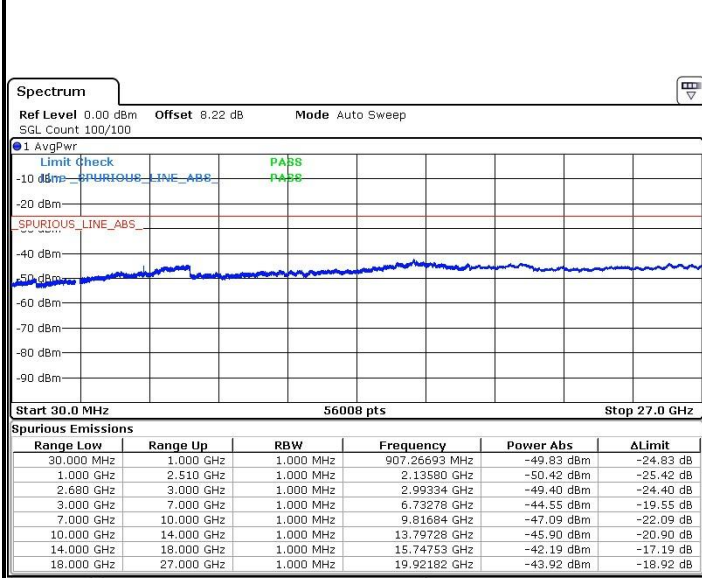
Lowest Channel / 16QAM



Ready

Date: 20.AUG.2019 13:22:34

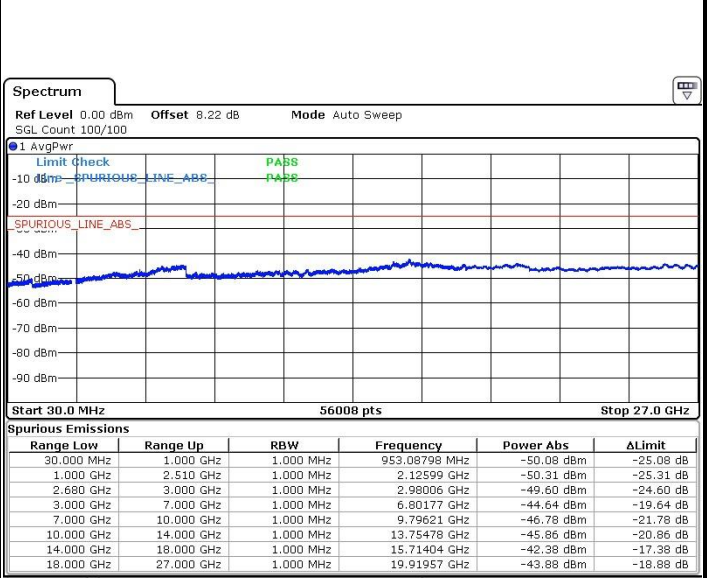
Middle Channel / QPSK



Ready

Date: 20.AUG.2019 13:19:10

Middle Channel / 16QAM



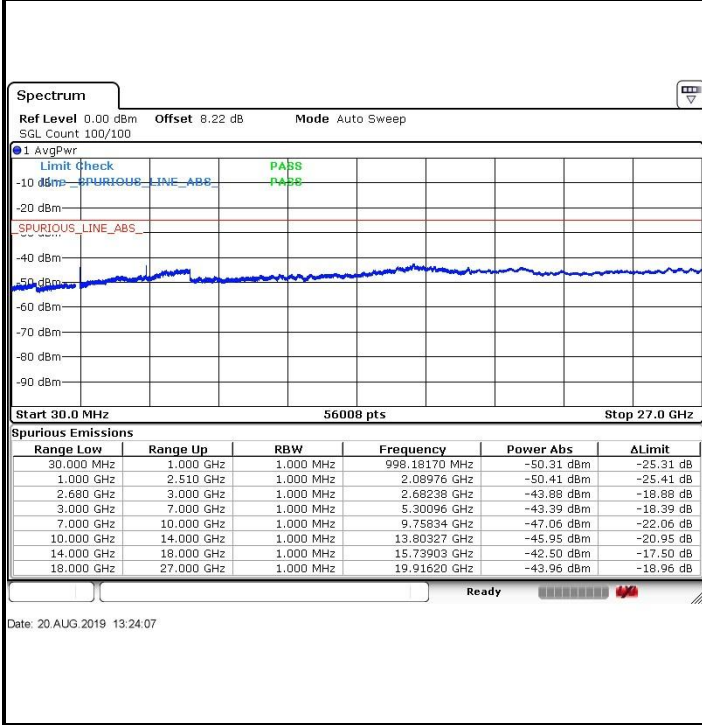
Ready

Date: 20.AUG.2019 13:19:57

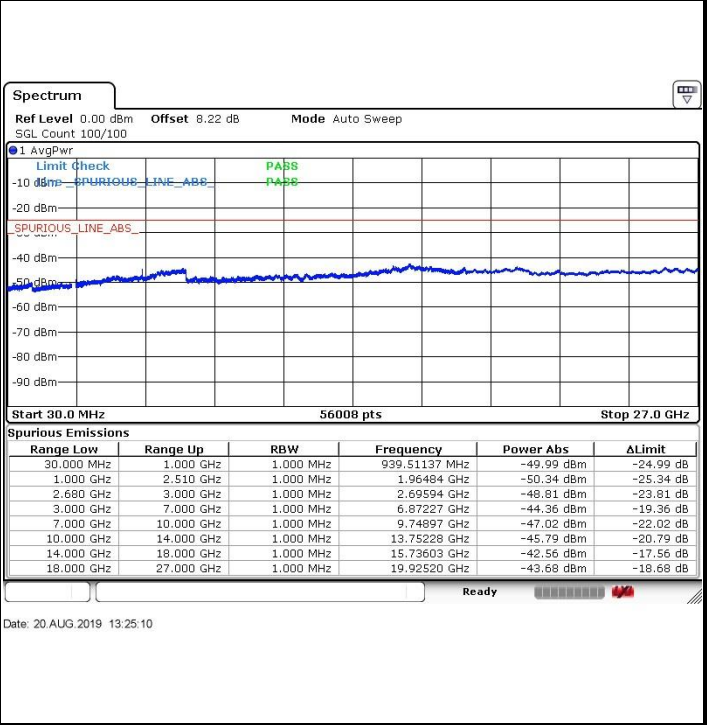


LTE Band 41 / 5MHz

Highest Channel / QPSK

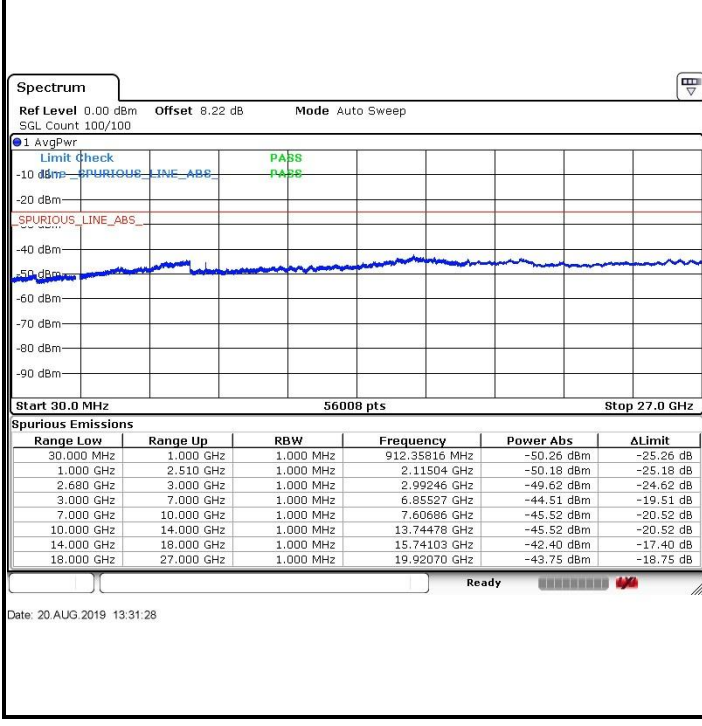


Highest Channel / 16QAM

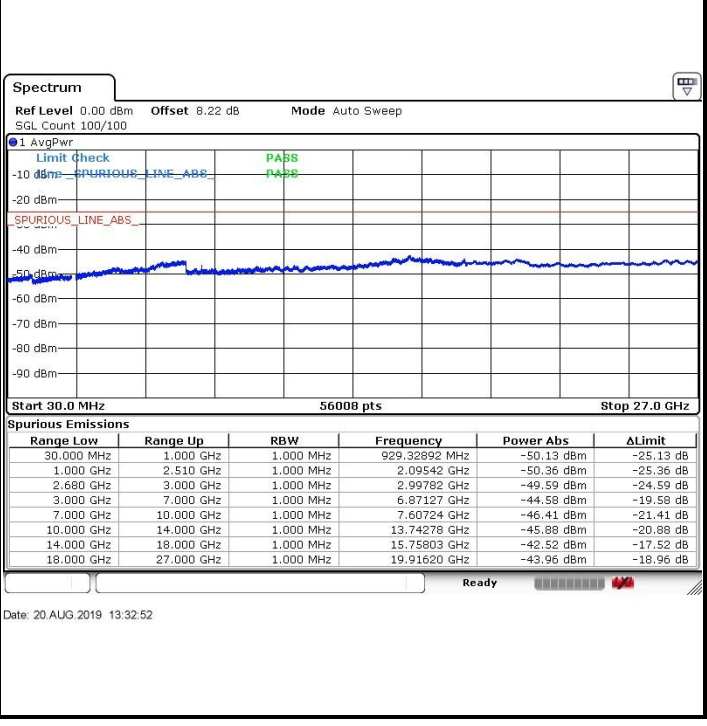


LTE Band 7 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

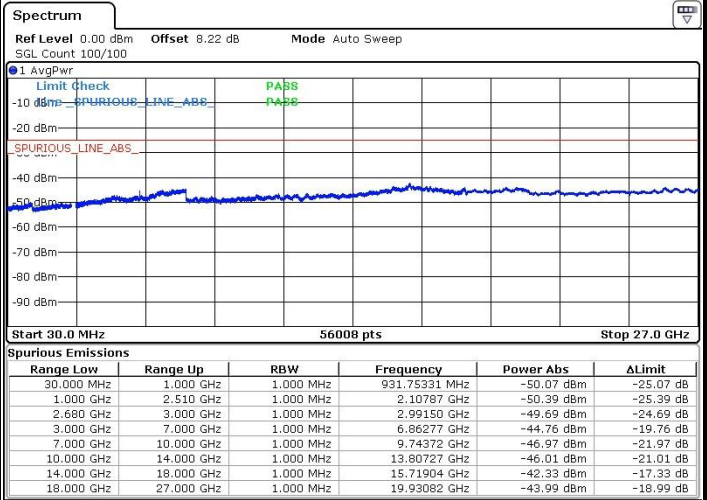
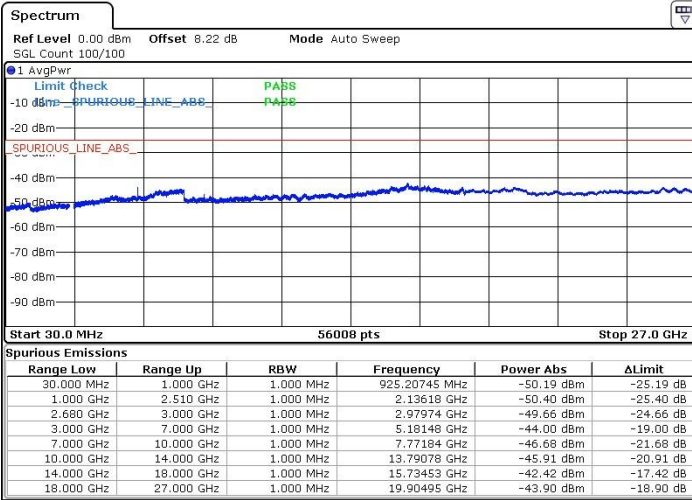




LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

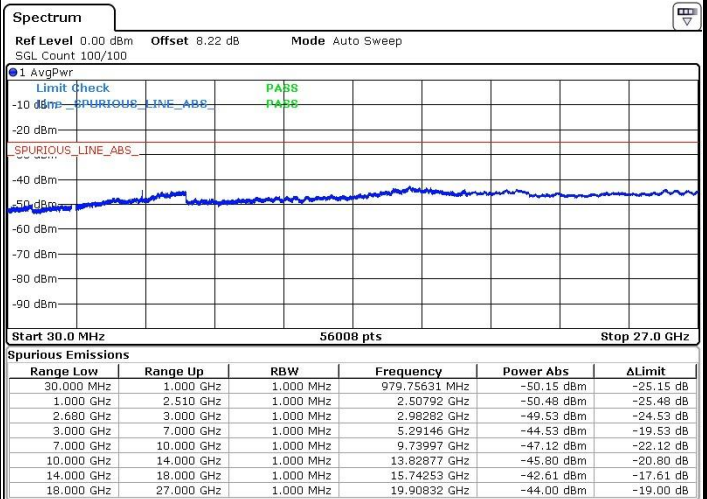
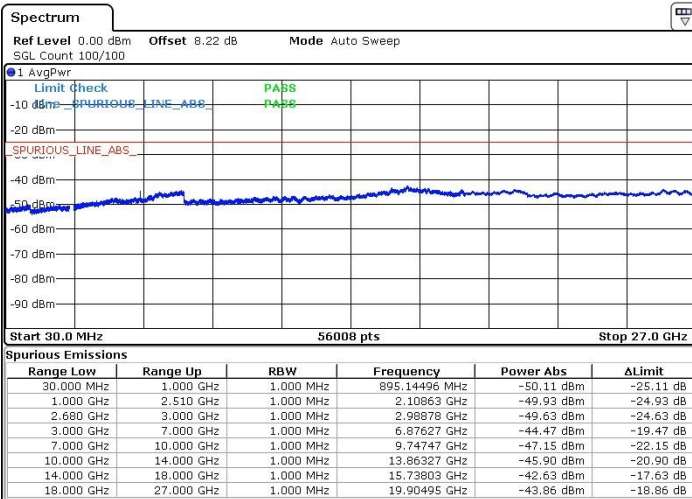


Date: 20 AUG.2019 13:30:21

Date: 20 AUG.2019 13:28:31

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20 AUG.2019 13:39:21

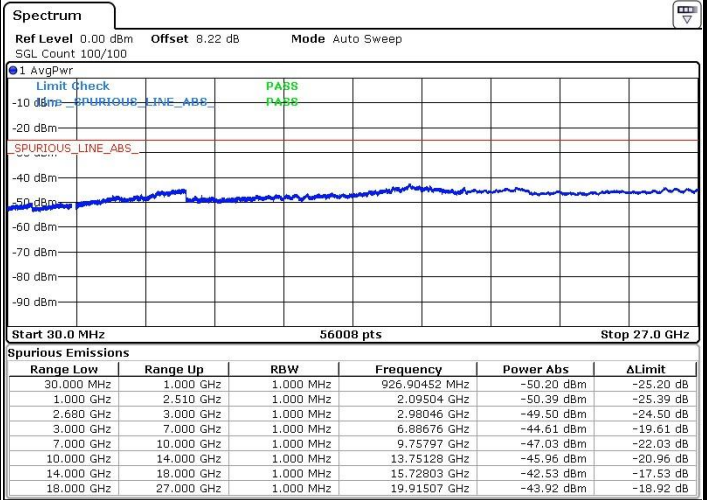
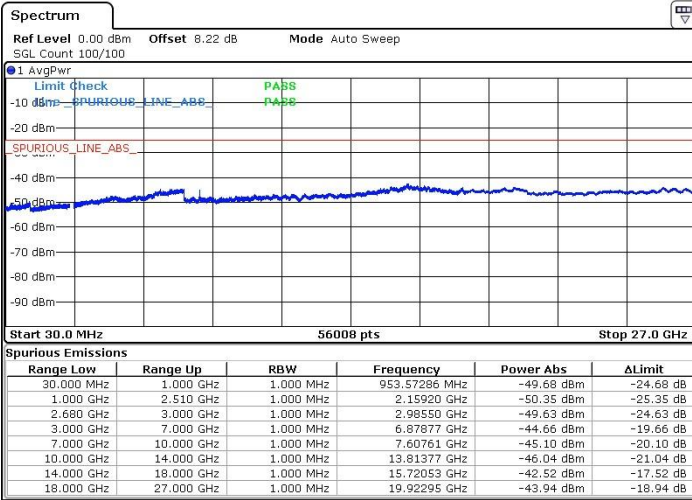
Date: 20 AUG.2019 13:38:34



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

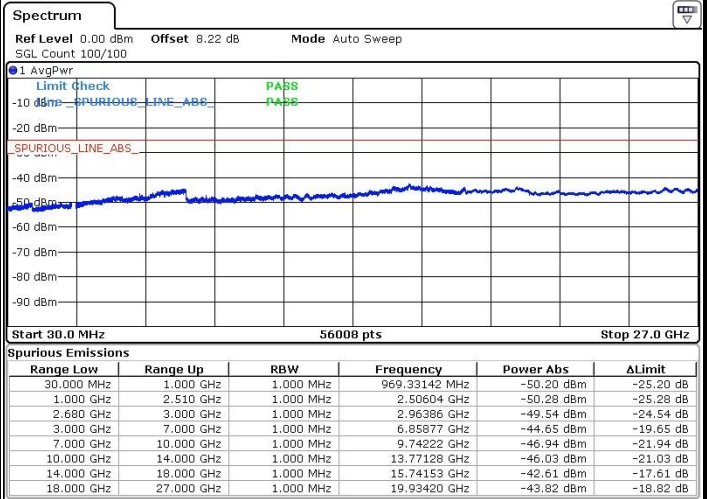
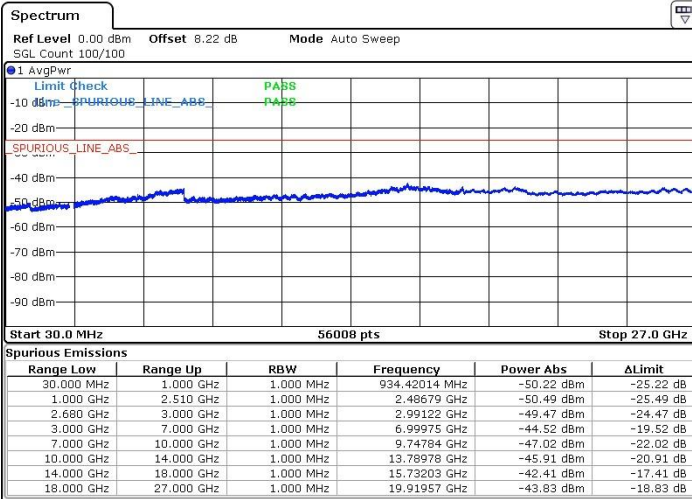


Date: 20.AUG.2019 13:41:01

Date: 20.AUG.2019 13:43:01

Middle Channel / QPSK

Middle Channel / 16QAM

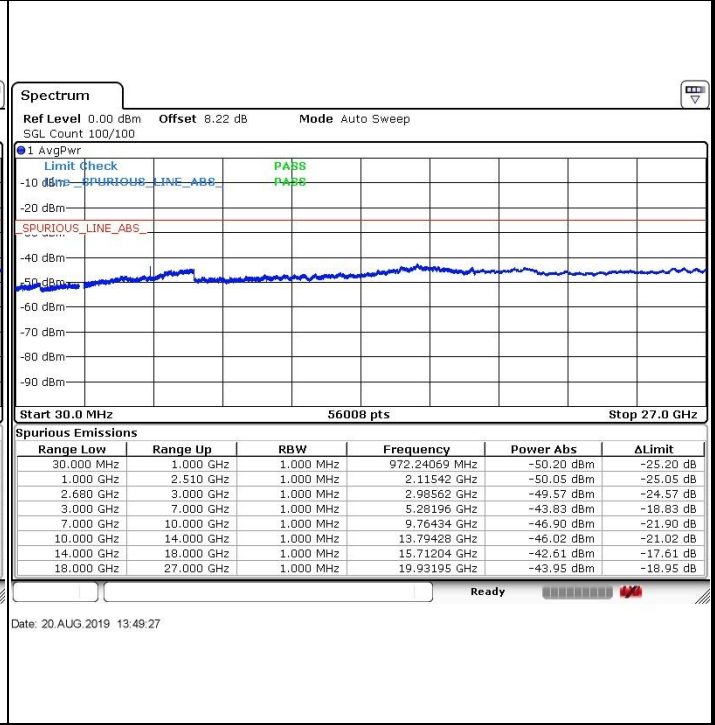
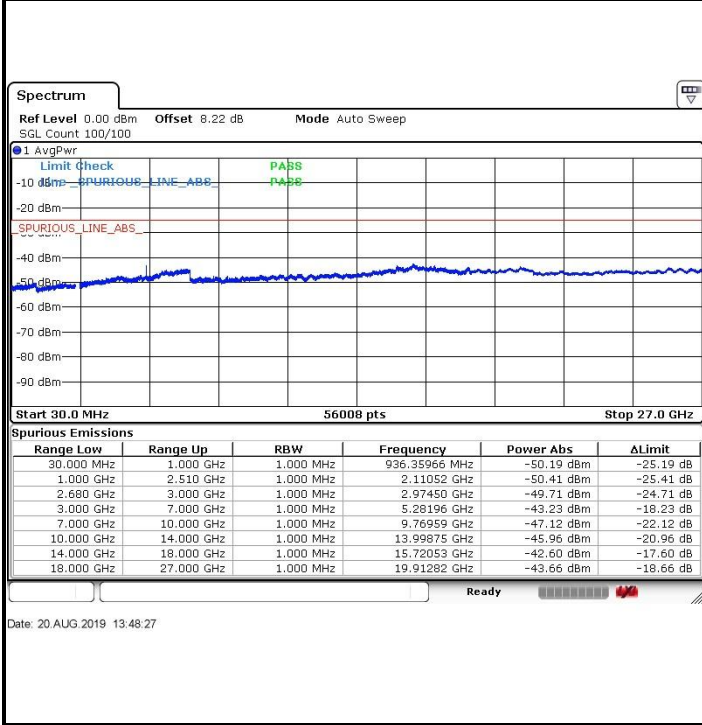


Date: 20.AUG.2019 13:47:34

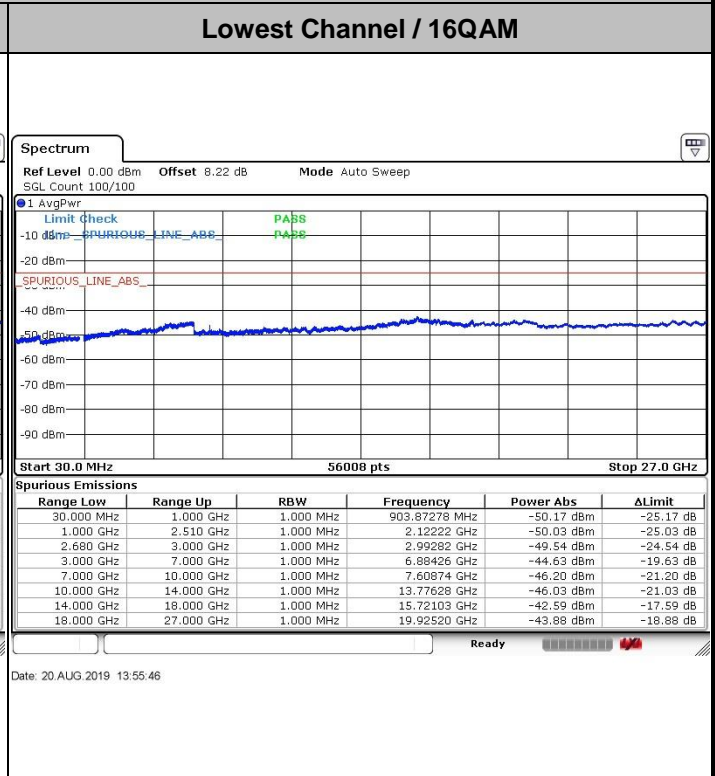
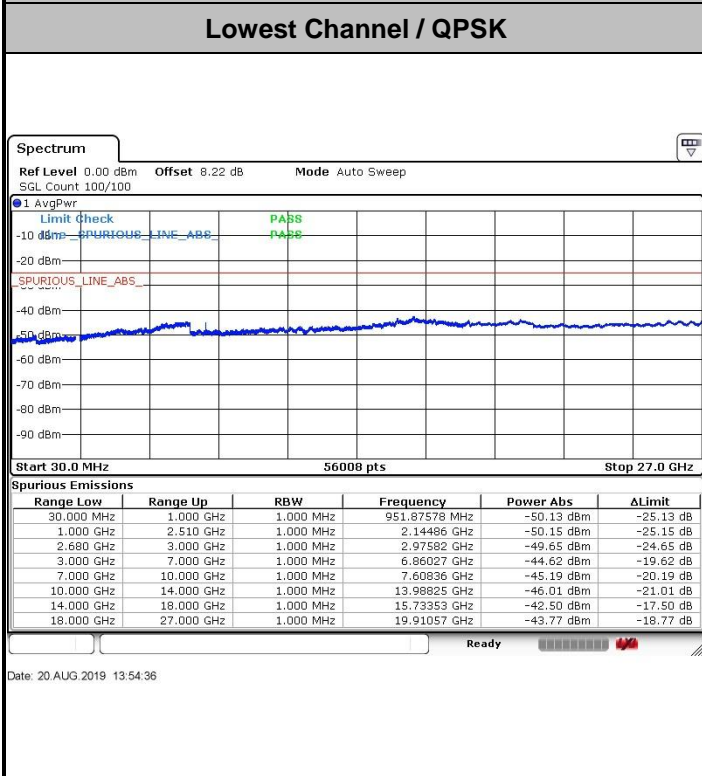
Date: 20.AUG.2019 13:46:35



| | |
|-------------------------------|--------------------------------|
| Highest Channel / QPSK | Highest Channel / 16QAM |
|-------------------------------|--------------------------------|



LTE Band 41 / 20MHz

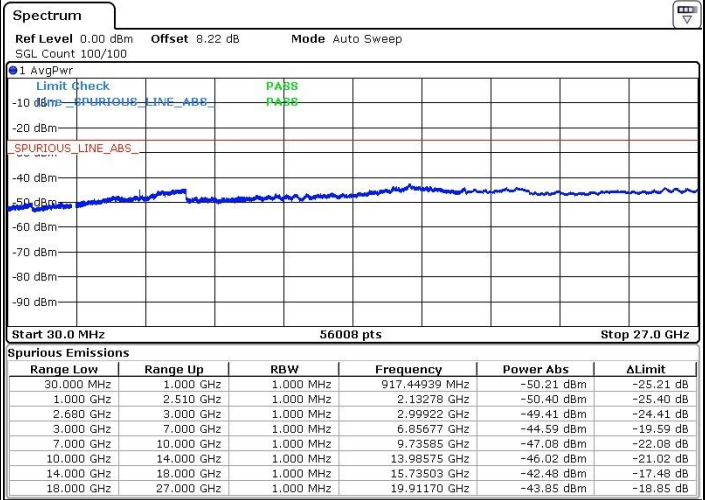
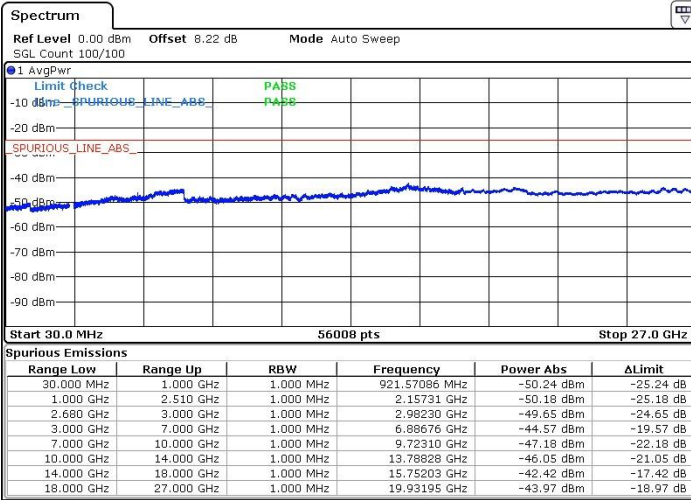




LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

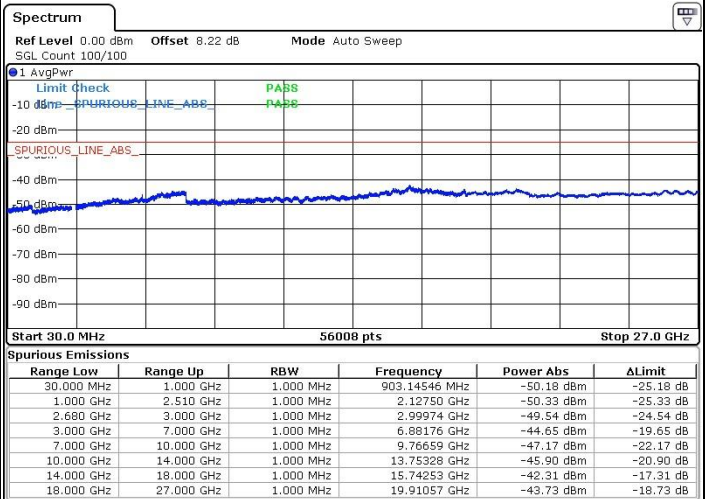
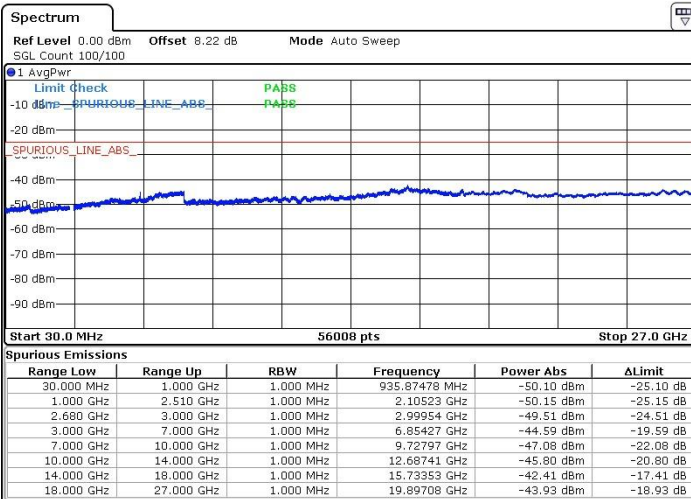


Date: 20 AUG.2019 13:53:47

Date: 20 AUG.2019 13:52:38

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20 AUG.2019 13:59:43

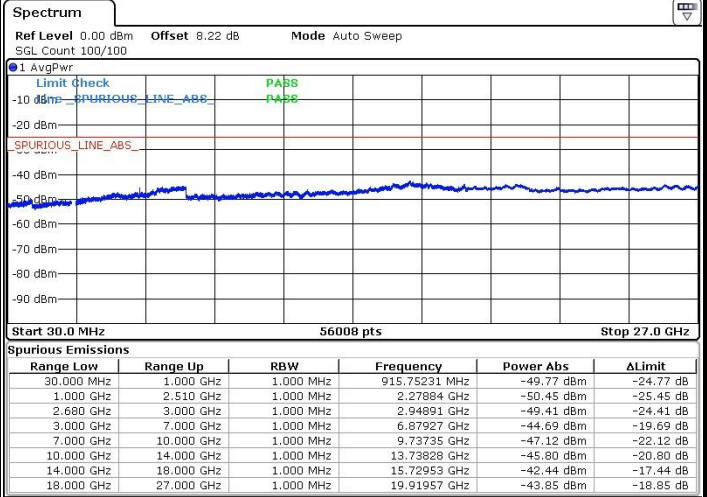
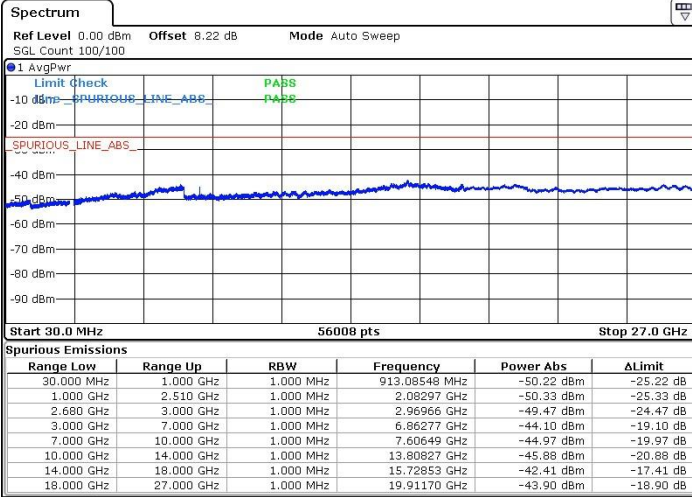
Date: 20 AUG.2019 13:58:46



LTE Band 41 / 5MHz

Lowest Channel / 64QAM

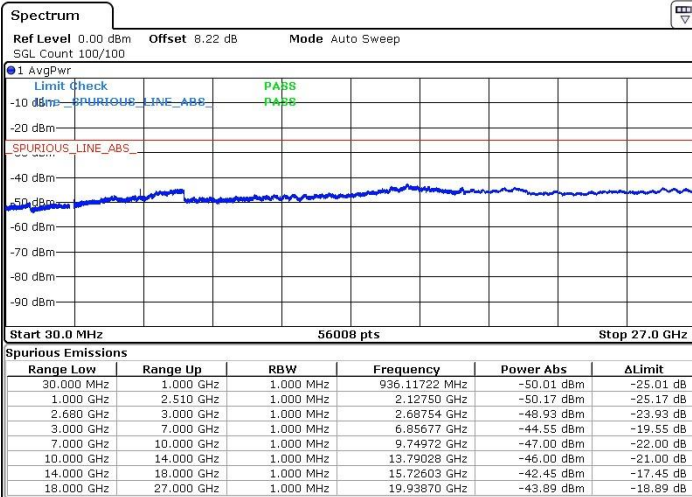
Middle Channel / 64QAM



Date: 20.AUG.2019 13:21:43

Date: 20.AUG.2019 13:20:48

Highest Channel / 64QAM



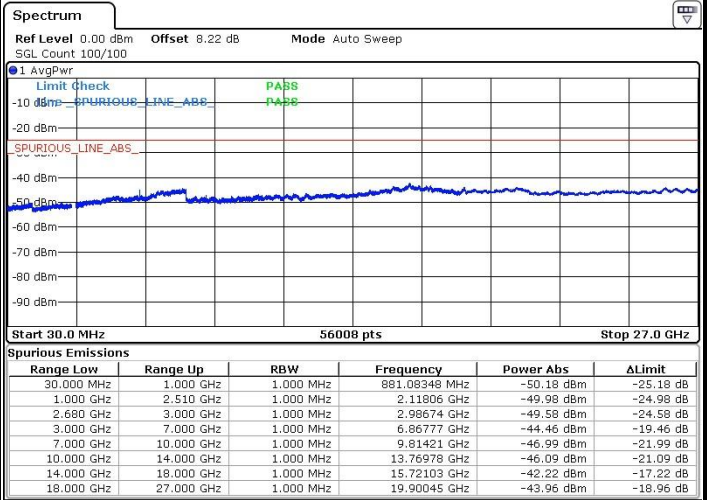
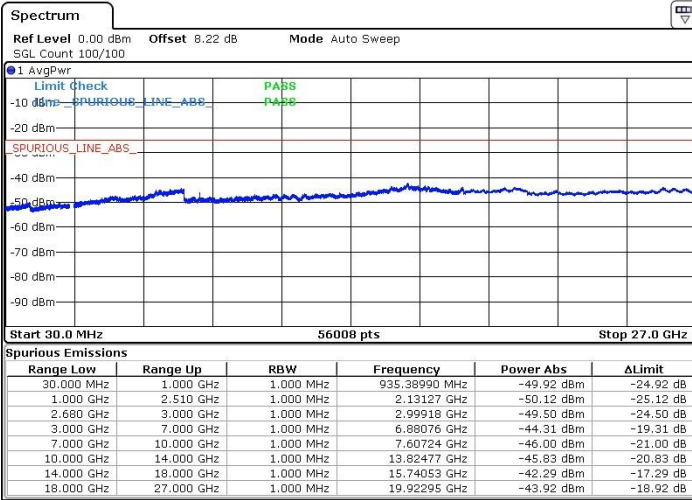
Date: 20.AUG.2019 13:26:07



LTE Band 41 / 10MHz

Lowest Channel / 64QAM

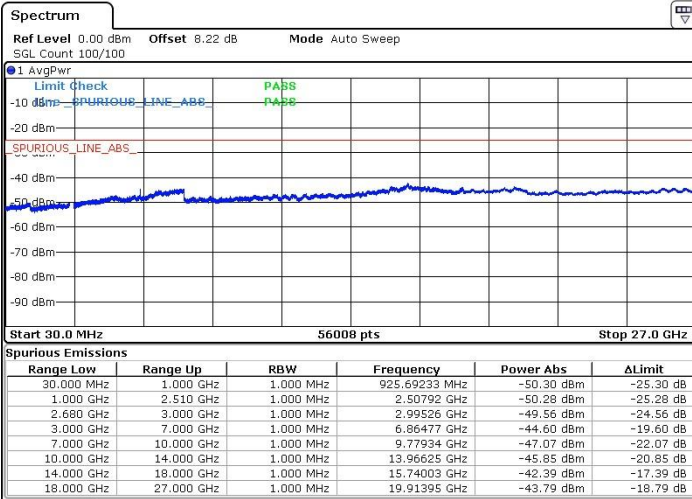
Middle Channel / 64QAM



Date: 20.AUG.2019 13:35:01

Date: 20.AUG.2019 13:27:19

Highest Channel / 64QAM



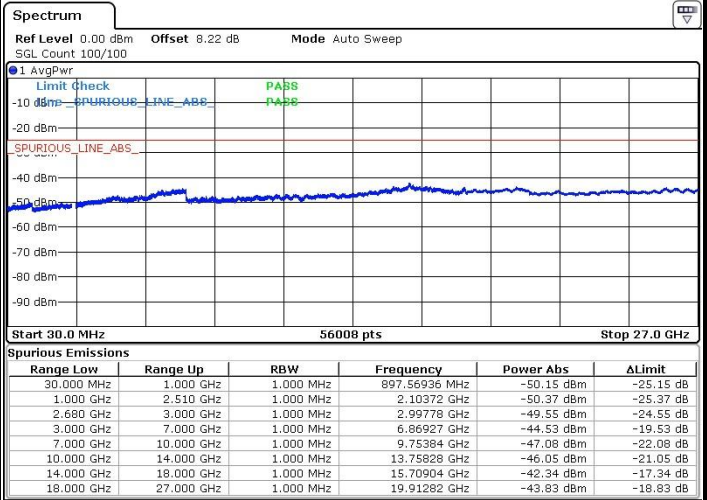
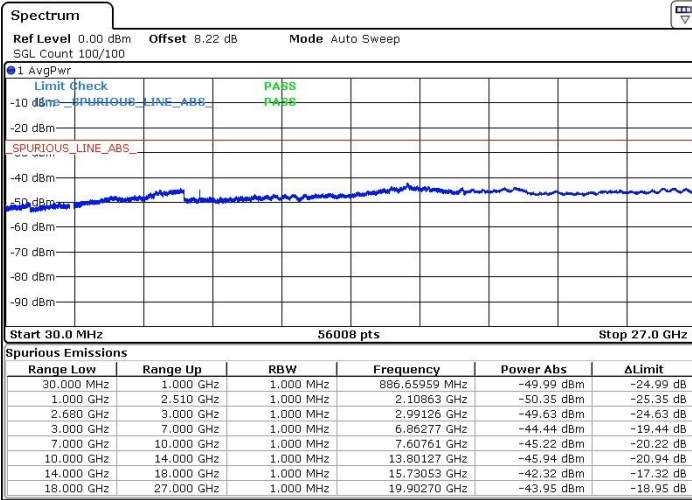
Date: 20.AUG.2019 13:36:46



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

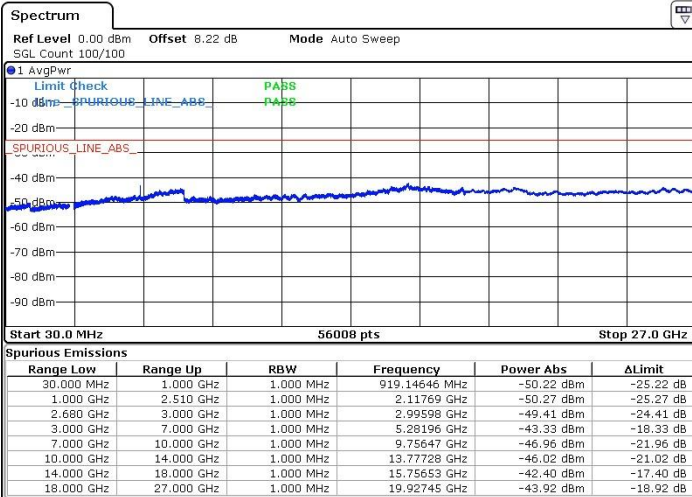
Middle Channel / 64QAM



Date: 20.AUG.2019 13:44:32

Date: 20.AUG.2019 13:45:43

Highest Channel / 64QAM



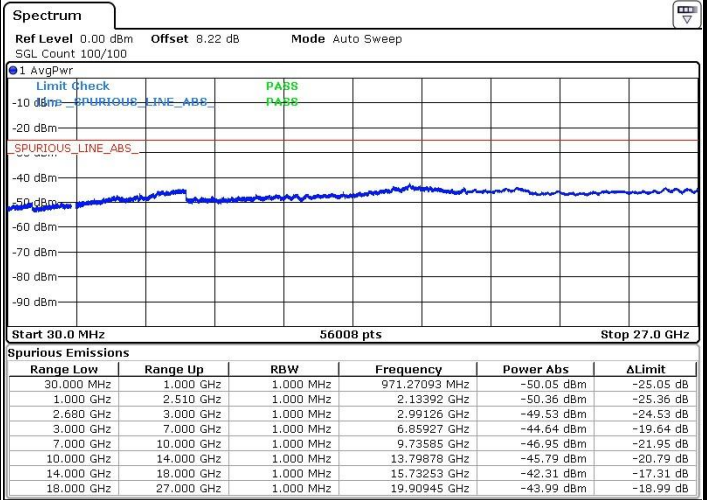
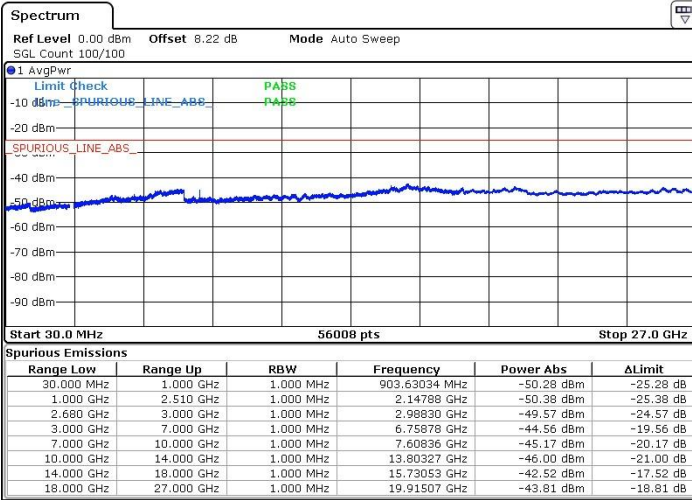
Date: 20.AUG.2019 13:50:22



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

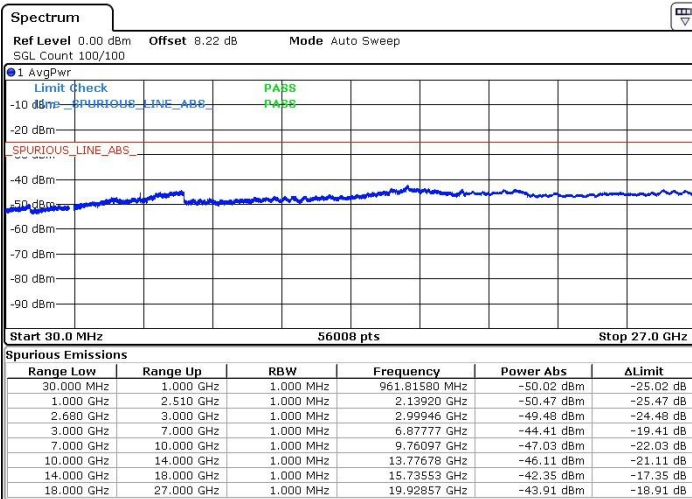
Middle Channel / 64QAM



Date: 20.AUG.2019 13:56:56

Date: 20.AUG.2019 13:51:38

Highest Channel / 64QAM



Date: 20.AUG.2019 13:57:52



Frequency Stability

| Test Conditions | | LTE Band 2 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0004 | PASS |
| 40 | Normal Voltage | 0.0045 | |
| 30 | Normal Voltage | 0.0007 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0014 | |
| 0 | Normal Voltage | 0.0009 | |
| -10 | Normal Voltage | 0.0028 | |
| -20 | Normal Voltage | 0.0024 | |
| -30 | Normal Voltage | 0.0036 | |
| 20 | Maximum Voltage | 0.0002 | |
| 20 | Normal Voltage | 0.0009 | |
| 20 | Battery End Point | 0.0010 | |

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 4 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0021 | PASS |
| 40 | Normal Voltage | 0.0015 | |
| 30 | Normal Voltage | 0.0023 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0004 | |
| 0 | Normal Voltage | 0.0012 | |
| -10 | Normal Voltage | 0.0014 | |
| -20 | Normal Voltage | 0.0020 | |
| -30 | Normal Voltage | 0.0018 | |
| 20 | Maximum Voltage | 0.0023 | |
| 20 | Normal Voltage | 0.0033 | |
| 20 | Battery End Point | 0.0004 | |

Note:

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



| Test Conditions | | LTE Band 26 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0004 | PASS |
| 40 | Normal Voltage | 0.0045 | |
| 30 | Normal Voltage | 0.0007 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0014 | |
| 0 | Normal Voltage | 0.0009 | |
| -10 | Normal Voltage | 0.0026 | |
| -20 | Normal Voltage | 0.0024 | |
| -30 | Normal Voltage | 0.0036 | |
| 20 | Maximum Voltage | 0.0002 | |
| 20 | Normal Voltage | 0.0008 | |
| 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 41 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0022 | PASS |
| 40 | Normal Voltage | 0.0004 | |
| 30 | Normal Voltage | 0.0023 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0015 | |
| 0 | Normal Voltage | 0.0020 | |
| -10 | Normal Voltage | 0.0026 | |
| -20 | Normal Voltage | 0.0001 | |
| -30 | Normal Voltage | 0.0002 | |
| 20 | Maximum Voltage | 0.0015 | |
| 20 | Normal Voltage | 0.0005 | |
| 20 | Battery End Point | 0.0004 | |

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 | -56.99 | -13 | -43.99 | -69.25 | 2.641 | 14.90 | H |
| | 5613 | -53.84 | -13 | -40.84 | -65.70 | 2.94 | 14.80 | H |
| | 7488 | -50.19 | -13 | -37.19 | -59.96 | 3.39 | 13.16 | H |
| | 3741 | -56.90 | -13 | -43.90 | -69.16 | 2.64 | 14.90 | V |
| | 5613 | -54.12 | -13 | -41.12 | -65.98 | 2.94 | 14.80 | V |
| | 7488 | -49.62 | -13 | -36.62 | -59.39 | 3.39 | 13.16 | V |

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

| LTE Band 4 / 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 | 3447 | -61.95 | -13 | -48.95 | -72.69 | 2.604 | 13.34 | H |
| | 5172 | -55.10 | -13 | -42.10 | -65.61 | 3.011 | 13.52 | H |
| | 6895 | -52.87 | -13 | -39.87 | -63.07 | 3.271 | 13.47 | H |
| | 3447 | -61.38 | -13 | -48.38 | -72.12 | 2.604 | 13.34 | V |
| | 5172 | -55.51 | -13 | -42.51 | -66.02 | 3.011 | 13.52 | V |
| | 6895 | -52.58 | -13 | -39.58 | -62.78 | 3.271 | 13.47 | V |

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

| LTE Band 26 / 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 | 1660 | -68.21 | -13 | -55.21 | -75.18 | 1.58 | 10.70 | H |
| | 2490 | -53.66 | -13 | -40.66 | -61.91 | 2.102 | 12.50 | H |
| | 3318 | -64.44 | -13 | -51.44 | -73.33 | 2.856 | 13.90 | H |
| | 1660 | -67.30 | -13 | -54.30 | -74.27 | 1.58 | 10.70 | V |
| | 2490 | -49.81 | -13 | -36.81 | -58.06 | 2.10 | 12.50 | V |
| | 3318 | -64.23 | -13 | -51.23 | -73.12 | 2.86 | 13.90 | V |

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



| LTE Band 41 / 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 | 5172 | -62.84 | -25 | -37.84 | -73.05 | 3.03 | 13.24 | H |
| | 7760 | -58.73 | -25 | -33.73 | -68.18 | 3.56 | 13.01 | H |
| | 10340 | -56.53 | -25 | -31.53 | -66.05 | 3.92 | 13.44 | H |
| | 5172 | -63.45 | -25 | -38.45 | -73.66 | 3.03 | 13.24 | V |
| | 7758 | -60.06 | -25 | -35.06 | -69.51 | 3.56 | 13.01 | V |
| | 10340 | -54.13 | -25 | -29.13 | -63.65 | 3.92 | 13.44 | V |

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



Appendix D. Reference Report

Please refer to Sporton report number FG962524B which is issued separately.