

Report No.: SZEM180500437001

Page: 1 of 59

Appendix B

E-UTRA BAND 41



Report No.: SZEM180500437001

Page: 2 of 59

CONTENT

| Ι. | EFFECTIVE (ISOTROPIC) RADIATED POWER | 3 |
|----|---------------------------------------|----|
| | 1.1. Test Result | 3 |
| 2. | PEAK-TO-AVERAGE RATIO(CCDF) | 10 |
| | 2.1. Test Result | 10 |
| | 2.2. Test Plots | 10 |
| 3. | Modulation Characteristics | 14 |
| | 3.1. Test BAND = LTE BAND41 | 14 |
| | 3.1.1. Test Mode = LTE /TM1 20MHz | 14 |
| | 3.1.1.1. Test Channel = MCH | 14 |
| | 3.1.2. Test Mode = LTE /TM2 20MHz | 15 |
| | 3.1.2.1. Test Channel = MCH | 15 |
| | 3.1.1. Test Mode = LTE /TM3 20MHz | 16 |
| | 3.1.1.1. Test Channel = MCH | 16 |
| 4. | 26dB Bandwidth and Occupied Bandwidth | 17 |
| | 4.1. Test Result | 17 |
| | 4.2. Test Plots | 18 |
| 5. | BAND EDGE COMPLIANCE | 31 |
| | 5.1. Test Plots | 31 |
| 6. | Spurious Emission at Antenna Terminal | 48 |
| | 6.1. Test Plots | 48 |
| 7. | FIELD STRENGTH OF SPURIOUS RADIATION | 55 |
| | 7.1. Test BAND = LTE BAND 41 | 55 |
| | 7.1.1. Test Mode =LTE/TM1 20MHz | 55 |
| | 7.1.1.1. Test Channel = LCH | 55 |
| | 7.1.1.2. Test Channel = MCH | 55 |
| | 7.1.1.3. Test Channel = HCH | 56 |
| 8. | Frequency Stability | 57 |
| | 8.1. Frequency Vs Voltage | 57 |
| | 8.2. Frequency Vs Temperature | 58 |



Report No.: SZEM180500437001

Page: 3 of 59

1. Effective (Isotropic) Radiated Power

1.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|--------|-----------|------------|---------|---------------------|-----------------|---------------|-------------|---------|
| BAND41 | 5MHz | QPSK | 39675 | 1RB#0 | 25.71 | 29.71 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 39675 | 1RB#12 | 25.73 | 29.73 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 39675 | 1RB#24 | 25.77 | 29.77 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 39675 | 12RB#0 | 24.88 | 28.88 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 39675 | 12RB#6 | 24.88 | 28.88 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 39675 | 12RB#13 | 24.89 | 28.89 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 39675 | 25RB#0 | 24.87 | 28.87 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 40620 | 1RB#0 | 25.78 | 29.78 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 40620 | 1RB#12 | 25.71 | 29.71 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 40620 | 1RB#24 | 25.74 | 29.74 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 40620 | 12RB#0 | 24.87 | 28.87 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 40620 | 12RB#6 | 24.87 | 28.87 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 40620 | 12RB#13 | 24.85 | 28.85 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 40620 | 25RB#0 | 24.84 | 28.84 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 41565 | 1RB#0 | 25.78 | 29.78 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 41565 | 1RB#12 | 25.77 | 29.77 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 41565 | 1RB#24 | 25.69 | 29.69 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 41565 | 12RB#0 | 24.90 | 28.90 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 41565 | 12RB#6 | 24.89 | 28.89 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 41565 | 12RB#13 | 24.88 | 28.88 | 33.00 | PASS |
| BAND41 | 5MHz | QPSK | 41565 | 25RB#0 | 24.87 | 28.87 | 33.00 | PASS |
| BAND41 | 5MHz | 16QAM | 39675 | 1RB#0 | 24.88 | 28.88 | 33.00 | PASS |
| BAND41 | 5MHz | 16QAM | 39675 | 1RB#12 | 24.92 | 28.92 | 33.00 | PASS |
| BAND41 | 5MHz | 16QAM | 39675 | 1RB#24 | 25.07 | 29.07 | 33.00 | PASS |
| BAND41 | 5MHz | 16QAM | 39675 | 12RB#0 | 23.96 | 27.96 | 33.00 | PASS |
| BAND41 | 5MHz | 16QAM | 39675 | 12RB#6 | 23.97 | 27.97 | 33.00 | PASS |
| BAND41 | 5MHz | 16QAM | 39675 | 12RB#13 | 23.94 | 27.94 | 33.00 | PASS |
| BAND41 | 5MHz | 16QAM | 39675 | 25RB#0 | 23.99 | 27.99 | 33.00 | PASS |
| BAND41 | 5MHz | 16QAM | 40620 | 1RB#0 | 24.91 | 28.91 | 33.00 | PASS |
| BAND41 | 5MHz | 16QAM | 40620 | 1RB#12 | 24.83 | 28.83 | 33.00 | PASS |
| BAND41 | 5MHz | 16QAM | 40620 | 1RB#24 | 25.15 | 29.15 | 33.00 | PASS |
| BAND41 | 5MHz | 16QAM | 40620 | 12RB#0 | 23.94 | 27.94 | 33.00 | PASS |
| BAND41 | 5MHz | 16QAM | 40620 | 12RB#6 | 23.84 | 27.84 | 33.00 | PASS |
| BAND41 | 5MHz | 16QAM | 40620 | 12RB#13 | 23.87 | 27.87 | 33.00 | PASS |



Report No.: SZEM180500437001

Page: 4 of 59

| BAND41 | | 1 | 1 | 1 | | 1 | 1 | | |
|---|--------|-------|-------|-------|---------|-------|-------|-------|------|
| BAND41 5MHz 16QAM 41565 1RB#12 24.99 28.99 33.00 PASS BAND41 5MHz 16QAM 41565 1RB#24 25.13 29.13 33.00 PASS BAND41 5MHz 16QAM 41565 12RB#0 24.03 28.03 33.00 PASS BAND41 5MHz 16QAM 41565 12RB#13 23.96 27.96 33.00 PASS BAND41 5MHz 16QAM 41565 25RB#0 23.98 27.98 33.00 PASS BAND41 5MHz 64QAM 39675 1RB#0 24.24 28.24 33.00 PASS BAND41 5MHz 64QAM 39675 1RB#0 24.21 28.17 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#0 23.34 27.34 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#13 23.27 27.27 33.00 PASS | BAND41 | 5MHz | 16QAM | 40620 | 25RB#0 | 23.94 | 27.94 | 33.00 | PASS |
| BAND41 | BAND41 | 5MHz | 16QAM | 41565 | 1RB#0 | 24.99 | 28.99 | 33.00 | PASS |
| BAND41 5MHz 160AM 41565 12RB#0 24.03 28.03 33.00 PASS BAND41 5MHz 160AM 41565 12RB#6 23.90 27.90 33.00 PASS BAND41 5MHz 160AM 41565 12RB#13 23.96 27.96 33.00 PASS BAND41 5MHz 160AM 41565 25RB#0 23.98 27.98 33.00 PASS BAND41 5MHz 64QAM 39675 1RB#0 24.24 28.24 33.00 PASS BAND41 5MHz 64QAM 39675 1RB#12 24.11 28.41 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#0 23.34 27.34 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#0 23.36 27.25 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#13 23.27 27.27 33.00 PASS | BAND41 | 5MHz | 16QAM | 41565 | 1RB#12 | 24.99 | 28.99 | 33.00 | PASS |
| BAND41 5MHz 16QAM 41565 12RB#6 23.90 27.90 33.00 PASS BAND41 5MHz 16QAM 41565 12RB#13 23.96 27.96 33.00 PASS BAND41 5MHz 16QAM 41565 25RB#0 23.98 27.98 33.00 PASS BAND41 5MHz 64QAM 39675 1RB#0 24.24 28.24 33.00 PASS BAND41 5MHz 64QAM 39675 1RB#0 24.24 28.41 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#0 23.34 27.34 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#6 23.25 27.25 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#13 23.27 27.27 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#13 23.27 27.27 33.00 PASS | BAND41 | 5MHz | 16QAM | 41565 | 1RB#24 | 25.13 | 29.13 | 33.00 | PASS |
| BAND41 5MHz 16QAM 41565 12RB#13 23.96 27.96 33.00 PASS BAND41 5MHz 16QAM 41565 25RB#0 23.98 27.98 33.00 PASS BAND41 5MHz 64QAM 39675 1RB#0 24.24 28.24 33.00 PASS BAND41 5MHz 64QAM 39675 1RB#02 24.17 28.17 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#0 23.34 27.34 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#0 23.34 27.24 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#13 23.27 27.27 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#13 23.27 27.27 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#12 24.03 28.06 33.00 PASS | BAND41 | 5MHz | 16QAM | 41565 | 12RB#0 | 24.03 | 28.03 | 33.00 | PASS |
| BAND41 5MHz 16QAM 41565 25RB#O 23.98 27.98 33.00 PASS BAND41 5MHz 64QAM 39675 1RB#O 24.24 28.24 33.00 PASS BAND41 5MHz 64QAM 39675 1RB#12 24.17 28.17 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#0 23.34 27.34 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#0 23.34 27.34 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#13 23.25 27.27 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#0 23.36 27.36 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#0 24.13 28.13 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#12 24.02 28.52 33.00 PASS | BAND41 | 5MHz | 16QAM | 41565 | 12RB#6 | 23.90 | 27.90 | 33.00 | PASS |
| BAND41 5MHz 64QAM 39675 1RB#0 24.24 28.24 33.00 PASS BAND41 5MHz 64QAM 39675 1RB#12 24.17 28.17 33.00 PASS BAND41 5MHz 64QAM 39675 1RB#24 24.41 28.41 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#0 23.34 27.34 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#13 23.27 27.27 33.00 PASS BAND41 5MHz 64QAM 39675 25RB#0 23.36 27.36 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#0 24.13 28.13 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#12 24.06 28.06 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#0 23.24 27.24 33.00 PASS | BAND41 | 5MHz | 16QAM | 41565 | 12RB#13 | 23.96 | 27.96 | 33.00 | PASS |
| BAND41 5MHz 64QAM 39675 1RB#12 24.17 28.17 33.00 PASS BAND41 5MHz 64QAM 39675 1RB#24 24.41 28.41 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#0 23.34 27.34 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#6 23.25 27.25 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#13 23.27 27.27 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#0 24.13 28.13 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#12 24.06 28.66 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#6 23.23 27.23 33.00 PASS | BAND41 | 5MHz | 16QAM | 41565 | 25RB#0 | 23.98 | 27.98 | 33.00 | PASS |
| BAND41 5MHz 64QAM 39675 1RB#24 24.41 28.41 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#0 23.34 27.34 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#6 23.25 27.25 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#13 23.27 27.26 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#0 24.13 28.13 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#12 24.06 28.06 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#42 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#0 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#13 23.07 27.07 33.00 PASS | BAND41 | 5MHz | 64QAM | 39675 | 1RB#0 | 24.24 | 28.24 | 33.00 | PASS |
| BAND41 5MHz 64QAM 39675 12RB#0 23.34 27.34 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#6 23.25 27.25 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#13 23.27 27.27 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#0 24.13 28.13 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#12 24.06 28.06 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#0 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#6 23.23 27.23 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#0 23.31 28.31 33.0 PASS | BAND41 | 5MHz | 64QAM | 39675 | 1RB#12 | 24.17 | 28.17 | 33.00 | PASS |
| BAND41 5MHz 64QAM 39675 12RB#6 23.25 27.25 33.00 PASS BAND41 5MHz 64QAM 39675 12RB#13 23.27 27.27 33.00 PASS BAND41 5MHz 64QAM 39675 25RB#0 23.36 27.36 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#0 24.13 28.13 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#12 24.06 28.06 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#0 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#6 23.23 27.23 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#13 23.07 27.07 33.00 PASS BAND41 5MHz 64QAM 41665 1RB#0 24.31 28.31 33.0 PASS | BAND41 | 5MHz | 64QAM | 39675 | 1RB#24 | 24.41 | 28.41 | 33.00 | PASS |
| BAND41 5MHz 64QAM 39675 12RB#13 23.27 27.27 33.00 PASS BAND41 5MHz 64QAM 39675 25RB#0 23.36 27.36 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#0 24.13 28.13 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#12 24.06 28.06 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#0 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#13 23.07 27.07 33.00 PASS BAND41 5MHz 64QAM 40620 25RB#0 23.32 27.32 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#0 24.31 28.31 33.00 PASS | BAND41 | 5MHz | 64QAM | 39675 | 12RB#0 | 23.34 | 27.34 | 33.00 | PASS |
| BAND41 5MHz 64QAM 39675 25RB#0 23.36 27.36 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#0 24.13 28.13 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#12 24.06 28.06 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#0 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#6 23.23 27.23 33.00 PASS BAND41 5MHz 64QAM 40620 25RB#0 23.32 27.32 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#0 24.31 28.31 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#24 24.52 28.52 33.00 PASS | BAND41 | 5MHz | 64QAM | 39675 | 12RB#6 | 23.25 | 27.25 | 33.00 | PASS |
| BAND41 5MHz 64QAM 40620 1RB#0 24.13 28.13 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#12 24.06 28.06 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#0 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#6 23.23 27.23 33.00 PASS BAND41 5MHz 64QAM 40620 25RB#0 23.32 27.32 33.00 PASS BAND41 5MHz 64QAM 40620 25RB#0 23.32 27.32 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#0 24.31 28.31 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#24 24.52 28.52 33.00 PASS | BAND41 | 5MHz | 64QAM | 39675 | 12RB#13 | 23.27 | 27.27 | 33.00 | PASS |
| BAND41 5MHz 64QAM 40620 1RB#12 24.06 28.06 33.00 PASS BAND41 5MHz 64QAM 40620 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#0 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#6 23.23 27.23 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#13 23.07 27.07 33.00 PASS BAND41 5MHz 64QAM 40620 25RB#0 23.32 27.32 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#0 24.31 28.31 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#12 24.32 28.32 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#0 23.37 27.37 33.00 PASS | BAND41 | 5MHz | 64QAM | 39675 | 25RB#0 | 23.36 | 27.36 | 33.00 | PASS |
| BAND41 5MHz 64QAM 40620 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#0 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#6 23.23 27.32 33.00 PASS BAND41 5MHz 64QAM 40620 25RB#0 23.32 27.32 33.00 PASS BAND41 5MHz 64QAM 40620 25RB#0 23.32 27.32 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#0 24.31 28.31 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#0 23.37 27.37 33.00 PASS | BAND41 | 5MHz | 64QAM | 40620 | 1RB#0 | 24.13 | 28.13 | 33.00 | PASS |
| BAND41 5MHz 64QAM 40620 12RB#0 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#6 23.23 27.23 33.00 PASS BAND41 5MHz 64QAM 40620 25RB#0 23.32 27.32 33.00 PASS BAND41 5MHz 64QAM 41665 1RB#0 24.31 28.31 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#12 24.32 28.32 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#0 23.37 27.37 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#6 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#13 23.18 27.18 33.00 PASS | BAND41 | 5MHz | 64QAM | 40620 | 1RB#12 | 24.06 | 28.06 | 33.00 | PASS |
| BAND41 5MHz 64QAM 40620 12RB#6 23.23 27.23 33.00 PASS BAND41 5MHz 64QAM 40620 12RB#13 23.07 27.07 33.00 PASS BAND41 5MHz 64QAM 40620 25RB#0 23.32 27.32 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#0 24.31 28.31 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#12 24.32 28.32 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#0 23.37 27.37 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#13 23.18 27.18 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#13 23.18 27.18 33.00 PASS | BAND41 | 5MHz | 64QAM | 40620 | 1RB#24 | 24.52 | 28.52 | 33.00 | PASS |
| BAND41 5MHz 64QAM 40620 12RB#13 23.07 27.07 33.00 PASS BAND41 5MHz 64QAM 40620 25RB#0 23.32 27.32 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#0 24.31 28.31 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#12 24.32 28.32 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#0 23.37 27.37 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#6 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#13 23.18 27.18 33.00 PASS BAND41 10MHz QPSK 39700 1RB#0 25.74 29.74 33.00 PASS | BAND41 | 5MHz | 64QAM | 40620 | 12RB#0 | 23.24 | 27.24 | 33.00 | PASS |
| BAND41 5MHz 64QAM 40620 25RB#0 23.32 27.32 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#0 24.31 28.31 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#12 24.32 28.32 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#0 23.37 27.37 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#6 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#13 23.18 27.18 33.00 PASS BAND41 5MHz 64QAM 41565 25RB#0 23.30 27.30 33.00 PASS BAND41 10MHz QPSK 39700 1RB#24 25.81 29.74 33.00 PASS | BAND41 | 5MHz | 64QAM | 40620 | 12RB#6 | 23.23 | 27.23 | 33.00 | PASS |
| BAND41 5MHz 64QAM 41565 1RB#0 24.31 28.31 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#12 24.32 28.32 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#0 23.37 27.37 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#6 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#13 23.18 27.18 33.00 PASS BAND41 5MHz 64QAM 41565 25RB#0 23.30 27.30 33.00 PASS BAND41 10MHz QPSK 39700 1RB#0 25.74 29.74 33.00 PASS BAND41 10MHz QPSK 39700 1RB#24 25.81 29.81 33.00 PASS | BAND41 | 5MHz | 64QAM | 40620 | 12RB#13 | 23.07 | 27.07 | 33.00 | PASS |
| BAND41 5MHz 64QAM 41565 1RB#12 24.32 28.32 33.00 PASS BAND41 5MHz 64QAM 41565 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#0 23.37 27.37 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#6 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#13 23.18 27.18 33.00 PASS BAND41 5MHz 64QAM 41565 25RB#0 23.30 27.30 33.00 PASS BAND41 10MHz QPSK 39700 1RB#0 25.74 29.74 33.00 PASS BAND41 10MHz QPSK 39700 1RB#49 25.88 29.88 33.00 PASS BAND41 10MHz QPSK 39700 25RB#0 24.90 28.90 33.00 PASS | BAND41 | 5MHz | 64QAM | 40620 | 25RB#0 | 23.32 | 27.32 | 33.00 | PASS |
| BAND41 5MHz 64QAM 41565 1RB#24 24.52 28.52 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#0 23.37 27.37 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#6 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#13 23.18 27.18 33.00 PASS BAND41 5MHz 64QAM 41565 25RB#0 23.30 27.30 33.00 PASS BAND41 10MHz QPSK 39700 1RB#0 25.74 29.74 33.00 PASS BAND41 10MHz QPSK 39700 1RB#24 25.81 29.81 33.00 PASS BAND41 10MHz QPSK 39700 25RB#0 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#25 24.90 28.90 33.00 PASS | BAND41 | 5MHz | 64QAM | 41565 | 1RB#0 | 24.31 | 28.31 | 33.00 | PASS |
| BAND41 5MHz 64QAM 41565 12RB#0 23.37 27.37 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#6 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#13 23.18 27.18 33.00 PASS BAND41 5MHz 64QAM 41565 25RB#0 23.30 27.30 33.00 PASS BAND41 10MHz QPSK 39700 1RB#0 25.74 29.74 33.00 PASS BAND41 10MHz QPSK 39700 1RB#24 25.81 29.81 33.00 PASS BAND41 10MHz QPSK 39700 1RB#49 25.88 29.88 33.00 PASS BAND41 10MHz QPSK 39700 25RB#0 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#25 24.90 28.90 33.00 PASS | BAND41 | 5MHz | 64QAM | 41565 | 1RB#12 | 24.32 | 28.32 | 33.00 | PASS |
| BAND41 5MHz 64QAM 41565 12RB#6 23.24 27.24 33.00 PASS BAND41 5MHz 64QAM 41565 12RB#13 23.18 27.18 33.00 PASS BAND41 5MHz 64QAM 41565 25RB#0 23.30 27.30 33.00 PASS BAND41 10MHz QPSK 39700 1RB#0 25.74 29.74 33.00 PASS BAND41 10MHz QPSK 39700 1RB#24 25.81 29.81 33.00 PASS BAND41 10MHz QPSK 39700 1RB#49 25.88 29.88 33.00 PASS BAND41 10MHz QPSK 39700 25RB#0 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#25 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 50RB#0 24.89 28.89 33.00 PASS | BAND41 | 5MHz | 64QAM | 41565 | 1RB#24 | 24.52 | 28.52 | 33.00 | PASS |
| BAND41 5MHz 64QAM 41565 12RB#13 23.18 27.18 33.00 PASS BAND41 5MHz 64QAM 41565 25RB#0 23.30 27.30 33.00 PASS BAND41 10MHz QPSK 39700 1RB#0 25.74 29.74 33.00 PASS BAND41 10MHz QPSK 39700 1RB#24 25.81 29.81 33.00 PASS BAND41 10MHz QPSK 39700 1RB#49 25.88 29.88 33.00 PASS BAND41 10MHz QPSK 39700 25RB#0 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#12 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#25 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 50RB#0 24.89 28.89 33.00 PASS | BAND41 | 5MHz | 64QAM | 41565 | 12RB#0 | 23.37 | 27.37 | 33.00 | PASS |
| BAND41 5MHz 64QAM 41565 25RB#0 23.30 27.30 33.00 PASS BAND41 10MHz QPSK 39700 1RB#0 25.74 29.74 33.00 PASS BAND41 10MHz QPSK 39700 1RB#24 25.81 29.81 33.00 PASS BAND41 10MHz QPSK 39700 25RB#0 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#12 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#25 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#25 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 50RB#0 24.89 28.89 33.00 PASS BAND41 10MHz QPSK 40620 1RB#0 25.77 29.77 33.00 PASS | BAND41 | 5MHz | 64QAM | 41565 | 12RB#6 | 23.24 | 27.24 | 33.00 | PASS |
| BAND41 10MHz QPSK 39700 1RB#0 25.74 29.74 33.00 PASS BAND41 10MHz QPSK 39700 1RB#24 25.81 29.81 33.00 PASS BAND41 10MHz QPSK 39700 25RB#0 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#12 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#25 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 50RB#0 24.89 28.89 33.00 PASS BAND41 10MHz QPSK 40620 1RB#0 25.77 29.77 33.00 PASS BAND41 10MHz QPSK 40620 1RB#24 25.72 29.72 33.00 PASS BAND41 10MHz QPSK 40620 1RB#49 25.71 29.71 33.00 PASS | BAND41 | 5MHz | 64QAM | 41565 | 12RB#13 | 23.18 | 27.18 | 33.00 | PASS |
| BAND41 10MHz QPSK 39700 1RB#24 25.81 29.81 33.00 PASS BAND41 10MHz QPSK 39700 1RB#49 25.88 29.88 33.00 PASS BAND41 10MHz QPSK 39700 25RB#0 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#12 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#25 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 50RB#0 24.89 28.89 33.00 PASS BAND41 10MHz QPSK 40620 1RB#0 25.77 29.77 33.00 PASS BAND41 10MHz QPSK 40620 1RB#49 25.71 29.71 33.00 PASS BAND41 10MHz QPSK 40620 1RB#49 25.71 29.71 33.00 PASS | BAND41 | 5MHz | 64QAM | 41565 | 25RB#0 | 23.30 | 27.30 | 33.00 | PASS |
| BAND41 10MHz QPSK 39700 1RB#49 25.88 29.88 33.00 PASS BAND41 10MHz QPSK 39700 25RB#0 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#12 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#25 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 50RB#0 24.89 28.89 33.00 PASS BAND41 10MHz QPSK 40620 1RB#0 25.77 29.77 33.00 PASS BAND41 10MHz QPSK 40620 1RB#24 25.72 29.72 33.00 PASS BAND41 10MHz QPSK 40620 1RB#49 25.71 29.71 33.00 PASS BAND41 10MHz QPSK 40620 1RB#49 25.71 29.71 33.00 PASS | BAND41 | 10MHz | QPSK | 39700 | 1RB#0 | 25.74 | 29.74 | 33.00 | PASS |
| BAND41 10MHz QPSK 39700 25RB#0 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#12 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#25 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 50RB#0 24.89 28.89 33.00 PASS BAND41 10MHz QPSK 40620 1RB#0 25.77 29.77 33.00 PASS BAND41 10MHz QPSK 40620 1RB#24 25.72 29.72 33.00 PASS BAND41 10MHz QPSK 40620 1RB#49 25.71 29.71 33.00 PASS BAND41 10MHz QPSK 40620 25RB#0 24.84 28.84 33.00 PASS | BAND41 | 10MHz | QPSK | 39700 | 1RB#24 | 25.81 | 29.81 | 33.00 | PASS |
| BAND41 10MHz QPSK 39700 25RB#12 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 25RB#25 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 50RB#0 24.89 28.89 33.00 PASS BAND41 10MHz QPSK 40620 1RB#0 25.77 29.77 33.00 PASS BAND41 10MHz QPSK 40620 1RB#24 25.72 29.72 33.00 PASS BAND41 10MHz QPSK 40620 1RB#49 25.71 29.71 33.00 PASS BAND41 10MHz QPSK 40620 25RB#0 24.84 28.84 33.00 PASS | BAND41 | 10MHz | QPSK | 39700 | 1RB#49 | 25.88 | 29.88 | 33.00 | PASS |
| BAND41 10MHz QPSK 39700 25RB#25 24.90 28.90 33.00 PASS BAND41 10MHz QPSK 39700 50RB#0 24.89 28.89 33.00 PASS BAND41 10MHz QPSK 40620 1RB#0 25.77 29.77 33.00 PASS BAND41 10MHz QPSK 40620 1RB#24 25.72 29.72 33.00 PASS BAND41 10MHz QPSK 40620 1RB#49 25.71 29.71 33.00 PASS BAND41 10MHz QPSK 40620 25RB#0 24.84 28.84 33.00 PASS | BAND41 | 10MHz | QPSK | 39700 | 25RB#0 | 24.90 | 28.90 | 33.00 | PASS |
| BAND41 10MHz QPSK 39700 50RB#0 24.89 28.89 33.00 PASS BAND41 10MHz QPSK 40620 1RB#0 25.77 29.77 33.00 PASS BAND41 10MHz QPSK 40620 1RB#24 25.72 29.72 33.00 PASS BAND41 10MHz QPSK 40620 1RB#49 25.71 29.71 33.00 PASS BAND41 10MHz QPSK 40620 25RB#0 24.84 28.84 33.00 PASS | BAND41 | 10MHz | QPSK | 39700 | 25RB#12 | 24.90 | 28.90 | 33.00 | PASS |
| BAND41 10MHz QPSK 40620 1RB#0 25.77 29.77 33.00 PASS BAND41 10MHz QPSK 40620 1RB#24 25.72 29.72 33.00 PASS BAND41 10MHz QPSK 40620 1RB#49 25.71 29.71 33.00 PASS BAND41 10MHz QPSK 40620 25RB#0 24.84 28.84 33.00 PASS | BAND41 | 10MHz | QPSK | 39700 | 25RB#25 | 24.90 | 28.90 | 33.00 | PASS |
| BAND41 10MHz QPSK 40620 1RB#24 25.72 29.72 33.00 PASS BAND41 10MHz QPSK 40620 1RB#49 25.71 29.71 33.00 PASS BAND41 10MHz QPSK 40620 25RB#0 24.84 28.84 33.00 PASS | BAND41 | 10MHz | QPSK | 39700 | 50RB#0 | 24.89 | 28.89 | 33.00 | PASS |
| BAND41 10MHz QPSK 40620 1RB#49 25.71 29.71 33.00 PASS BAND41 10MHz QPSK 40620 25RB#0 24.84 28.84 33.00 PASS | BAND41 | 10MHz | QPSK | 40620 | 1RB#0 | 25.77 | 29.77 | 33.00 | PASS |
| BAND41 10MHz QPSK 40620 25RB#0 24.84 28.84 33.00 PASS | BAND41 | 10MHz | QPSK | 40620 | 1RB#24 | 25.72 | 29.72 | 33.00 | PASS |
| | BAND41 | 10MHz | QPSK | 40620 | 1RB#49 | 25.71 | 29.71 | 33.00 | PASS |
| BAND41 10MHz QPSK 40620 25RB#12 24.82 28.82 33.00 PASS | BAND41 | 10MHz | QPSK | 40620 | 25RB#0 | 24.84 | 28.84 | 33.00 | PASS |
| | BAND41 | 10MHz | QPSK | 40620 | 25RB#12 | 24.82 | 28.82 | 33.00 | PASS |

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sqs.com/en/Terms-and-Conditions.com/en/Terms-and-Conditions.com/en/Terms-and-Conditions.com/en/Terms-and-Conditions/Terms-



Report No.: SZEM180500437001

Page: 5 of 59

| - | | | 1 | | , | , | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| BAND41 | 10MHz | QPSK | 40620 | 25RB#25 | 24.81 | 28.81 | 33.00 | PASS |
| BAND41 | 10MHz | QPSK | 40620 | 50RB#0 | 24.81 | 28.81 | 33.00 | PASS |
| BAND41 | 10MHz | QPSK | 41540 | 1RB#0 | 25.81 | 29.81 | 33.00 | PASS |
| BAND41 | 10MHz | QPSK | 41540 | 1RB#24 | 25.80 | 29.80 | 33.00 | PASS |
| BAND41 | 10MHz | QPSK | 41540 | 1RB#49 | 25.70 | 29.70 | 33.00 | PASS |
| BAND41 | 10MHz | QPSK | 41540 | 25RB#0 | 24.90 | 28.90 | 33.00 | PASS |
| BAND41 | 10MHz | QPSK | 41540 | 25RB#12 | 24.88 | 28.88 | 33.00 | PASS |
| BAND41 | 10MHz | QPSK | 41540 | 25RB#25 | 24.87 | 28.87 | 33.00 | PASS |
| BAND41 | 10MHz | QPSK | 41540 | 50RB#0 | 24.86 | 28.86 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 39700 | 1RB#0 | 24.87 | 28.87 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 39700 | 1RB#24 | 25.10 | 29.10 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 39700 | 1RB#49 | 24.99 | 28.99 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 39700 | 25RB#0 | 23.97 | 27.97 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 39700 | 25RB#12 | 23.98 | 27.98 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 39700 | 25RB#25 | 23.95 | 27.95 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 39700 | 50RB#0 | 23.91 | 27.91 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 40620 | 1RB#0 | 24.88 | 28.88 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 40620 | 1RB#24 | 25.05 | 29.05 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 40620 | 1RB#49 | 24.94 | 28.94 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 40620 | 25RB#0 | 23.87 | 27.87 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 40620 | 25RB#12 | 23.92 | 27.92 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 40620 | 25RB#25 | 23.82 | 27.82 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 40620 | 50RB#0 | 23.86 | 27.86 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 41540 | 1RB#0 | 24.80 | 28.80 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 41540 | 1RB#24 | 24.91 | 28.91 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 41540 | 1RB#49 | 24.97 | 28.97 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 41540 | 25RB#0 | 23.98 | 27.98 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 41540 | 25RB#12 | 24.01 | 28.01 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 41540 | 25RB#25 | 23.91 | 27.91 | 33.00 | PASS |
| BAND41 | 10MHz | 16QAM | 41540 | 50RB#0 | 24.06 | 28.06 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 39700 | 1RB#0 | 24.20 | 28.20 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 39700 | 1RB#24 | 24.32 | 28.32 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 39700 | 1RB#49 | 24.36 | 28.36 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 39700 | 25RB#0 | 23.23 | 27.23 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 39700 | 25RB#12 | 23.37 | 27.37 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 39700 | 25RB#25 | 23.33 | 27.33 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 39700 | 50RB#0 | 23.11 | 27.11 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 40620 | 1RB#0 | 24.14 | 28.14 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 40620 | 1RB#24 | 24.37 | 28.37 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 40620 | 1RB#49 | 24.27 | 28.27 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 40620 | 25RB#0 | 23.26 | 27.26 | 33.00 | PASS |
| | | • | • | • | | • | • | |



Report No.: SZEM180500437001

Page: 6 of 59

| | 1 | ı | 1 | ı | 1 | 1 | 1 | ı |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| BAND41 | 10MHz | 64QAM | 40620 | 25RB#12 | 23.18 | 27.18 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 40620 | 25RB#25 | 23.07 | 27.07 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 40620 | 50RB#0 | 23.25 | 27.25 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 41540 | 1RB#0 | 24.06 | 28.06 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 41540 | 1RB#24 | 24.27 | 28.27 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 41540 | 1RB#49 | 24.18 | 28.18 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 41540 | 25RB#0 | 23.23 | 27.23 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 41540 | 25RB#12 | 23.29 | 27.29 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 41540 | 25RB#25 | 23.28 | 27.28 | 33.00 | PASS |
| BAND41 | 10MHz | 64QAM | 41540 | 50RB#0 | 23.30 | 27.30 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 39725 | 1RB#0 | 25.68 | 29.68 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 39725 | 1RB#38 | 25.72 | 29.72 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 39725 | 1RB#74 | 25.86 | 29.86 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 39725 | 36RB#0 | 24.87 | 28.87 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 39725 | 36RB#18 | 24.88 | 28.88 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 39725 | 36RB#39 | 24.95 | 28.95 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 39725 | 75RB#0 | 24.86 | 28.86 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 40620 | 1RB#0 | 25.78 | 29.78 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 40620 | 1RB#38 | 25.70 | 29.70 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 40620 | 1RB#74 | 25.67 | 29.67 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 40620 | 36RB#0 | 24.84 | 28.84 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 40620 | 36RB#18 | 24.83 | 28.83 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 40620 | 36RB#39 | 24.82 | 28.82 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 40620 | 75RB#0 | 24.80 | 28.80 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 41515 | 1RB#0 | 25.74 | 29.74 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 41515 | 1RB#38 | 25.70 | 29.70 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 41515 | 1RB#74 | 25.61 | 29.61 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 41515 | 36RB#0 | 24.86 | 28.86 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 41515 | 36RB#18 | 24.84 | 28.84 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 41515 | 36RB#39 | 24.81 | 28.81 | 33.00 | PASS |
| BAND41 | 15MHz | QPSK | 41515 | 75RB#0 | 24.82 | 28.82 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 39725 | 1RB#0 | 25.05 | 29.05 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 39725 | 1RB#38 | 24.94 | 28.94 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 39725 | 1RB#74 | 24.96 | 28.96 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 39725 | 36RB#0 | 24.01 | 28.01 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 39725 | 36RB#18 | 23.88 | 27.88 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 39725 | 36RB#39 | 24.94 | 28.94 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 39725 | 75RB#0 | 24.81 | 28.81 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 40620 | 1RB#0 | 24.88 | 28.88 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 40620 | 1RB#38 | 24.88 | 28.88 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 40620 | 1RB#74 | 24.86 | 28.86 | 33.00 | PASS |
| • | | • | | | • | | ē | • |

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sqs.com/en/Terms-and-Conditions.com/en/Terms-and-Conditions.com/en/Terms-and-Conditions.com/en/Terms-and-Conditions/Terms-



Report No.: SZEM180500437001

Page: 7 of 59

| F: | | | | | | | | |
|--------|-------|----------|----------|---------|-------|-------|----------|------|
| BAND41 | 15MHz | 16QAM | 40620 | 36RB#0 | 23.83 | 27.83 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 40620 | 36RB#18 | 23.81 | 27.81 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 40620 | 36RB#39 | 25.00 | 29.00 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 40620 | 75RB#0 | 25.19 | 29.19 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 41515 | 1RB#0 | 24.95 | 28.95 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 41515 | 1RB#38 | 24.94 | 28.94 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 41515 | 1RB#74 | 24.89 | 28.89 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 41515 | 36RB#0 | 23.89 | 27.89 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 41515 | 36RB#18 | 23.86 | 27.86 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 41515 | 36RB#39 | 25.01 | 29.01 | 33.00 | PASS |
| BAND41 | 15MHz | 16QAM | 41515 | 75RB#0 | 25.04 | 29.04 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 39725 | 1RB#0 | 24.42 | 28.42 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 39725 | 1RB#38 | 24.22 | 28.22 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 39725 | 1RB#74 | 24.28 | 28.28 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 39725 | 36RB#0 | 23.22 | 27.22 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 39725 | 36RB#18 | 23.23 | 27.23 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 39725 | 36RB#39 | 24.24 | 28.24 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 39725 | 75RB#0 | 24.18 | 28.18 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 40620 | 1RB#0 | 24.13 | 28.13 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 40620 | 1RB#38 | 24.28 | 28.28 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 40620 | 1RB#74 | 24.06 | 28.06 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 40620 | 36RB#0 | 23.09 | 27.09 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 40620 | 36RB#18 | 23.13 | 27.13 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 40620 | 36RB#39 | 24.27 | 28.27 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 40620 | 75RB#0 | 24.46 | 28.46 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 41515 | 1RB#0 | 24.34 | 28.34 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 41515 | 1RB#38 | 24.17 | 28.17 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 41515 | 1RB#74 | 24.09 | 28.09 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 41515 | 36RB#0 | 23.14 | 27.14 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 41515 | 36RB#18 | 23.21 | 27.21 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 41515 | 36RB#39 | 24.41 | 28.41 | 33.00 | PASS |
| BAND41 | 15MHz | 64QAM | 41515 | 75RB#0 | 24.26 | 28.26 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 39750 | 1RB#0 | 25.78 | 29.78 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 39750 | 1RB#49 | 25.80 | 29.80 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 39750 | 1RB#99 | 25.98 | 29.98 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 39750 | 50RB#0 | 24.87 | 28.87 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 39750 | 50RB#25 | 24.93 | 28.93 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 39750 | 50RB#50 | 24.95 | 28.95 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 39750 | 100RB#0 | 24.96 | 28.96 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 40620 | 1RB#0 | 25.84 | 29.84 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 40620 | 1RB#49 | 25.72 | 29.72 | 33.00 | PASS |
| | | <u> </u> | <u> </u> | 1 | l | l | <u> </u> | L |



Report No.: SZEM180500437001

Page: 8 of 59

| | Т | 1 | 1 | ı | T | T | | 1 |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| BAND41 | 20MHz | QPSK | 40620 | 1RB#99 | 25.80 | 29.80 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 40620 | 50RB#0 | 24.85 | 28.85 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 40620 | 50RB#25 | 24.81 | 28.81 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 40620 | 50RB#50 | 24.81 | 28.81 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 40620 | 100RB#0 | 24.83 | 28.83 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 41490 | 1RB#0 | 25.81 | 29.81 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 41490 | 1RB#49 | 25.71 | 29.71 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 41490 | 1RB#99 | 25.80 | 29.80 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 41490 | 50RB#0 | 24.86 | 28.86 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 41490 | 50RB#25 | 24.82 | 28.82 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 41490 | 50RB#50 | 24.81 | 28.81 | 33.00 | PASS |
| BAND41 | 20MHz | QPSK | 41490 | 100RB#0 | 24.84 | 28.84 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 39750 | 1RB#0 | 25.36 | 29.36 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 39750 | 1RB#49 | 24.93 | 28.93 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 39750 | 1RB#99 | 24.96 | 28.96 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 39750 | 50RB#0 | 23.99 | 27.99 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 39750 | 50RB#25 | 23.98 | 27.98 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 39750 | 50RB#50 | 25.01 | 29.01 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 39750 | 100RB#0 | 24.82 | 28.82 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 40620 | 1RB#0 | 24.83 | 28.83 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 40620 | 1RB#49 | 24.85 | 28.85 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 40620 | 1RB#99 | 24.81 | 28.81 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 40620 | 50RB#0 | 23.81 | 27.81 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 40620 | 50RB#25 | 23.84 | 27.84 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 40620 | 50RB#50 | 23.96 | 27.96 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 40620 | 100RB#0 | 24.80 | 28.80 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 41490 | 1RB#0 | 24.95 | 28.95 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 41490 | 1RB#49 | 24.91 | 28.91 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 41490 | 1RB#99 | 24.88 | 28.88 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 41490 | 50RB#0 | 23.87 | 27.87 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 41490 | 50RB#25 | 23.87 | 27.87 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 41490 | 50RB#50 | 23.85 | 27.85 | 33.00 | PASS |
| BAND41 | 20MHz | 16QAM | 41490 | 100RB#0 | 23.67 | 27.67 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 39750 | 1RB#0 | 24.71 | 28.71 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 39750 | 1RB#49 | 24.30 | 28.30 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 39750 | 1RB#99 | 24.19 | 28.19 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 39750 | 50RB#0 | 23.37 | 27.37 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 39750 | 50RB#25 | 23.27 | 27.27 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 39750 | 50RB#50 | 24.26 | 28.26 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 39750 | 100RB#0 | 24.17 | 28.17 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 40620 | 1RB#0 | 24.14 | 28.14 | 33.00 | PASS |
| | | | | | | | | |

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sqs.com/en/Terms-and-Conditions.com/en/Terms-and-Conditions.com/en/Terms-and-Conditions.com/en/Terms-and-Conditions/Terms-



Report No.: SZEM180500437001

Page: 9 of 59

| BAND41 | 20MHz | 64QAM | 40620 | 1RB#49 | 24.13 | 28.13 | 33.00 | PASS |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| BAND41 | 20MHz | 64QAM | 40620 | 1RB#99 | 24.16 | 28.16 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 40620 | 50RB#0 | 23.18 | 27.18 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 40620 | 50RB#25 | 23.10 | 27.10 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 40620 | 50RB#50 | 23.26 | 27.26 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 40620 | 100RB#0 | 24.16 | 28.16 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 41490 | 1RB#0 | 24.15 | 28.15 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 41490 | 1RB#49 | 24.25 | 28.25 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 41490 | 1RB#99 | 24.16 | 28.16 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 41490 | 50RB#0 | 23.24 | 27.24 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 41490 | 50RB#25 | 23.26 | 27.26 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 41490 | 50RB#50 | 23.22 | 27.22 | 33.00 | PASS |
| BAND41 | 20MHz | 64QAM | 41490 | 100RB#0 | 22.99 | 26.99 | 33.00 | PASS |

Note:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level



Report No.: SZEM180500437001

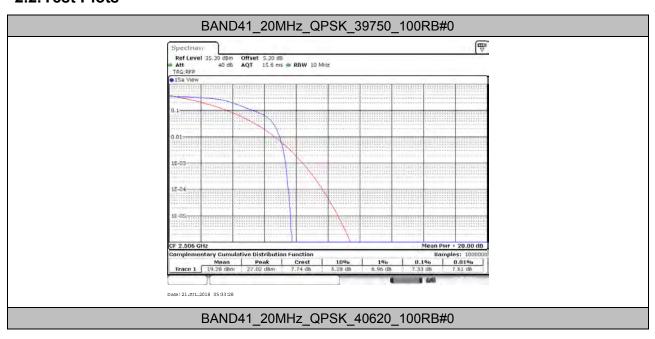
Page: 10 of 59

2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|---------|-----------|------------|---------|------------------|------------|-----------|---------|
| | | | 39750 | 100RB#0 | 7.33 | 13 | PASS |
| | | QPSK | 40620 | 100RB#0 | 7.16 | 13 | PASS |
| | | | 41490 | 100RB#0 | 7.36 | 13 | PASS |
| | | 16QAM | 39750 | 100RB#0 | 8.96 | 13 | PASS |
| BAND 41 | 20MHz | | 40620 | 100RB#0 | 8.72 | 13 | PASS |
| | | | 41490 | 100RB#0 | 8.99 | 13 | PASS |
| | | 64QAM | 39750 | 100RB#0 | 9.19 | 13 | PASS |
| | | | 40620 | 100RB#0 | 9.19 | 13 | PASS |
| | | | 41490 | 100RB#0 | 9.36 | 13 | PASS |

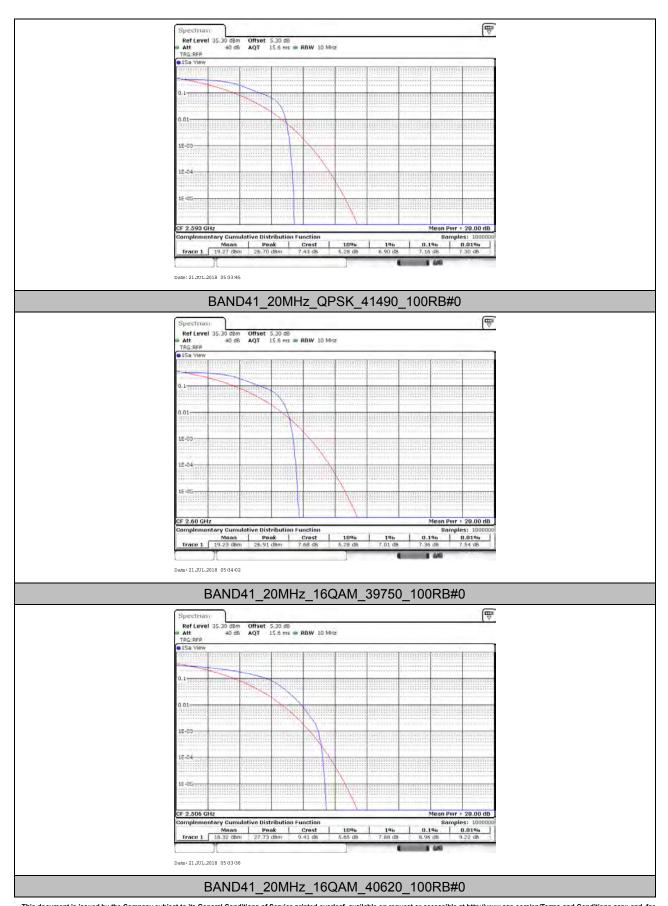
2.2. Test Plots





Report No.: SZEM180500437001

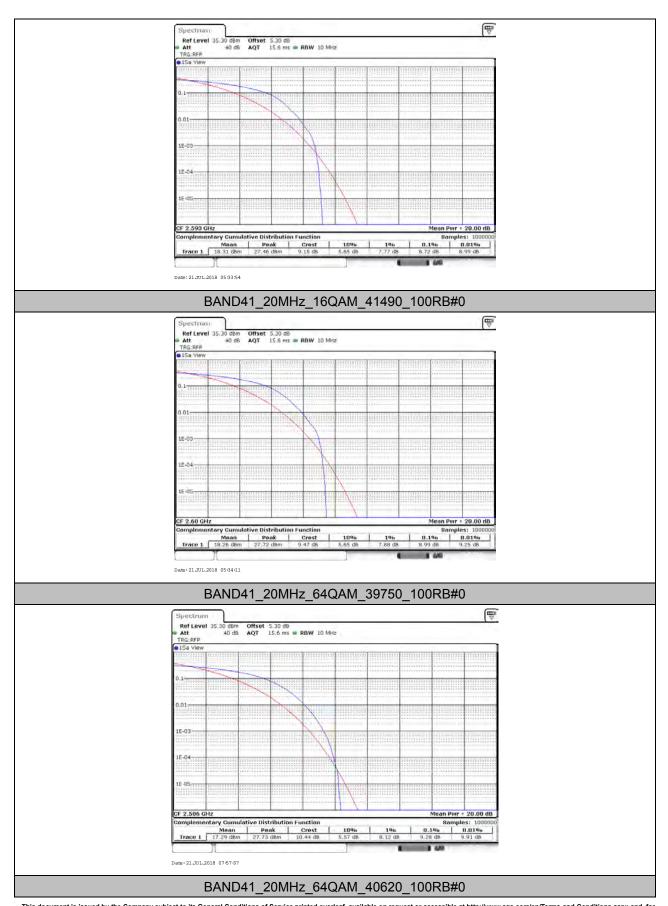
Page: 11 of 59





Report No.: SZEM180500437001

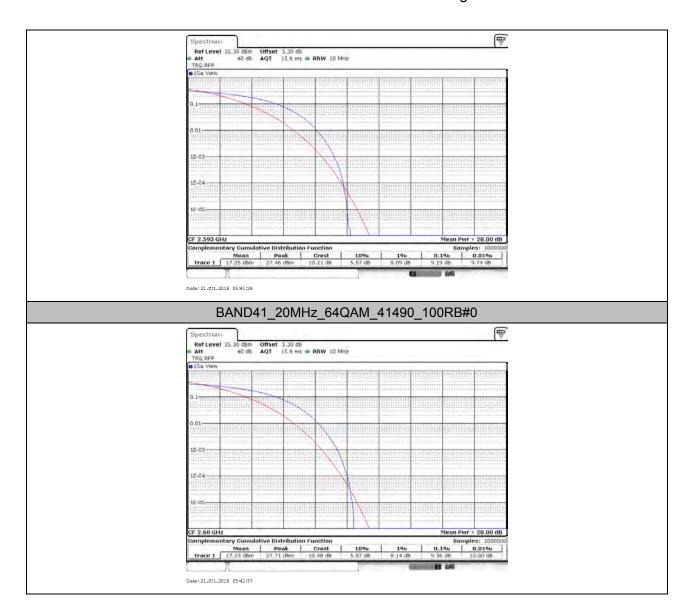
Page: 12 of 59





Report No.: SZEM180500437001

Page: 13 of 59



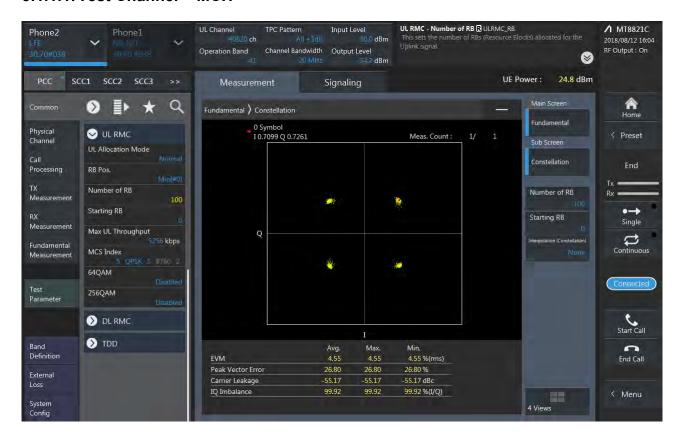


Report No.: SZEM180500437001

Page: 14 of 59

3. Modulation Characteristics

- 3.1. Test BAND = LTE BAND41
- 3.1.1. Test Mode = LTE /TM1 20MHz
- 3.1.1.1. Test Channel = MCH



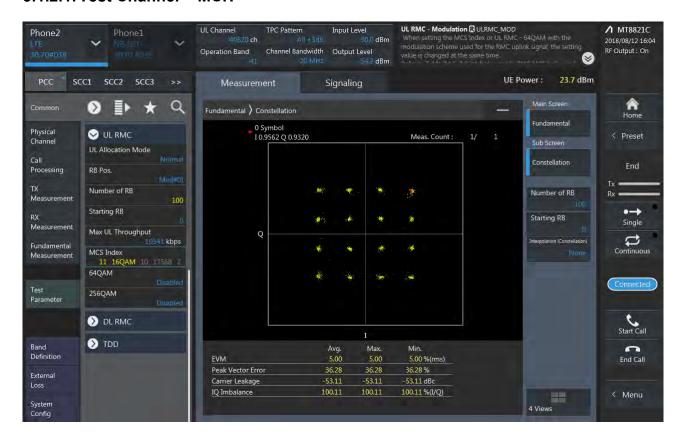


Report No.: SZEM180500437001

Page: 15 of 59

3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. Test Channel = MCH



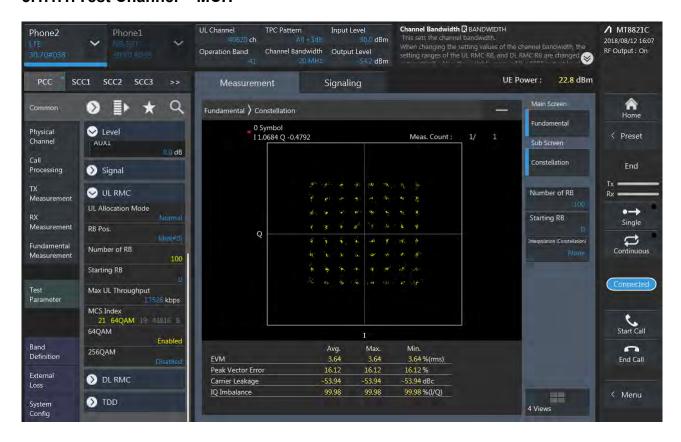


Report No.: SZEM180500437001

Page: 16 of 59

3.1.1. Test Mode = LTE /TM3 20MHz

3.1.1.1. Test Channel = MCH





Report No.: SZEM180500437001

Page: 17 of 59

4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|---------------------|--------------------------------|----------------------------|---------|
| | | | 39675 | 25RB#0 | 4.476 | 4.900 | PASS |
| | | QPSK | 40620 | 25RB#0 | 4.486 | 5.260 | PASS |
| | | | 41565 | 25RB#0 | 4.476 | 4.900 | PASS |
| | | | 39675 | 25RB#0 | 4.476 | 4.890 | PASS |
| | 5MHz | 64QAM | 40620 | 25RB#0 | 4.486 | 5.270 | PASS |
| | | | 41565 | 25RB#0 | 4.476 | 4.960 | PASS |
| | | | 39675 | 25RB#0 | 4.476 | 5.120 | PASS |
| | | 16QAM | 40620 | 25RB#0 | 4.486 | 6.800 | PASS |
| | | | 41565 | 25RB#0 | 4.466 | 4.920 | PASS |
| | | | 39700 | 50RB#0 | 8.951 | 10.420 | PASS |
| | | QPSK | 40620 | 50RB#0 | 8.991 | 10.620 | PASS |
| | | | 41540 | 50RB#0 | 8.971 | 10.360 | PASS |
| | | 64QAM | 39700 | 50RB#0 | 8.951 | 10.280 | PASS |
| | 10MHz | | 40620 | 50RB#0 | 8.971 | 11.160 | PASS |
| | | | 41540 | 50RB#0 | 8.951 | 10.400 | PASS |
| | | | 39700 | 50RB#0 | 8.951 | 10.280 | PASS |
| BAND41 | | 16QAM | 40620 | 50RB#0 | 8.991 | 12.020 | PASS |
| | | | 41540 | 50RB#0 | 8.951 | 10.220 | PASS |
| | | QPSK | 39725 | 75RB#0 | 13.546 | 15.870 | PASS |
| | | | 40620 | 75RB#0 | 13.576 | 16.260 | PASS |
| | | | 41515 | 75RB#0 | 13.546 | 15.960 | PASS |
| | | | 39725 | 75RB#0 | 13.546 | 16.650 | PASS |
| | 15MHz | 64QAM | 40620 | 75RB#0 | 13.576 | 16.680 | PASS |
| | | | 41515 | 75RB#0 | 13.546 | 16.050 | PASS |
| | | | 39725 | 75RB#0 | 13.546 | 16.350 | PASS |
| | | 16QAM | 40620 | 75RB#0 | 13.576 | 18.060 | PASS |
| | | | 41515 | 75RB#0 | 13.546 | 16.200 | PASS |
| | | | 39750 | 100RB#0 | 17.982 | 21.680 | PASS |
| | | QPSK | 40620 | 100RB#0 | 17.982 | 21.840 | PASS |
| | 20MHz | | 41490 | 100RB#0 | 17.982 | 20.800 | PASS |
| | ZUIVITZ | | 39750 | 100RB#0 | 17.982 | 23.280 | PASS |
| | | 64QAM | 40620 | 100RB#0 | 17.982 | 21.680 | PASS |
| | | | 41490 | 100RB#0 | 17.942 | 22.520 | PASS |

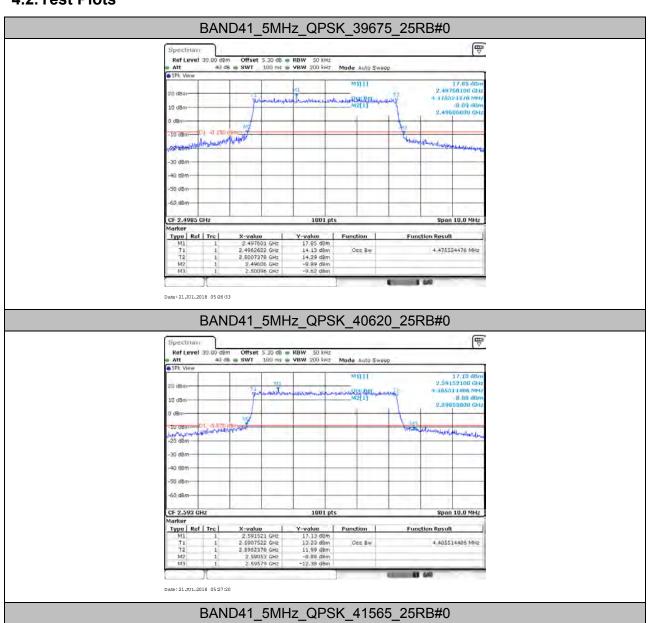


Report No.: SZEM180500437001

Page: 18 of 59

| | 39750 | 100RB#0 | 17.942 | 20.840 | PASS |
|-------|-------|---------|--------|--------|------|
| 16QAM | 40620 | 100RB#0 | 17.982 | 24.680 | PASS |
| | 41490 | 100RB#0 | 17.942 | 20.240 | PASS |

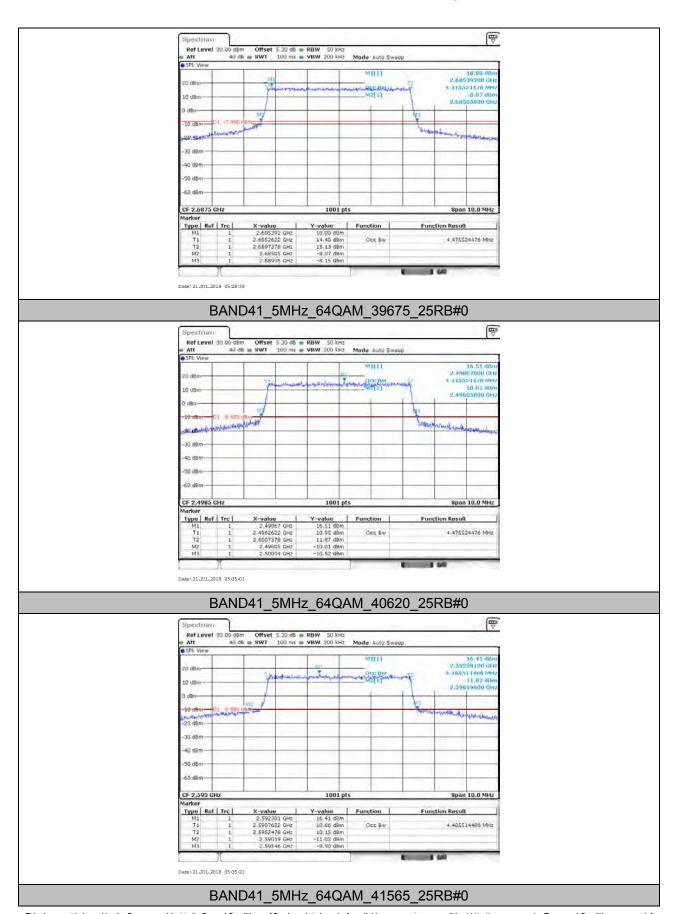
4.2. Test Plots





Report No.: SZEM180500437001

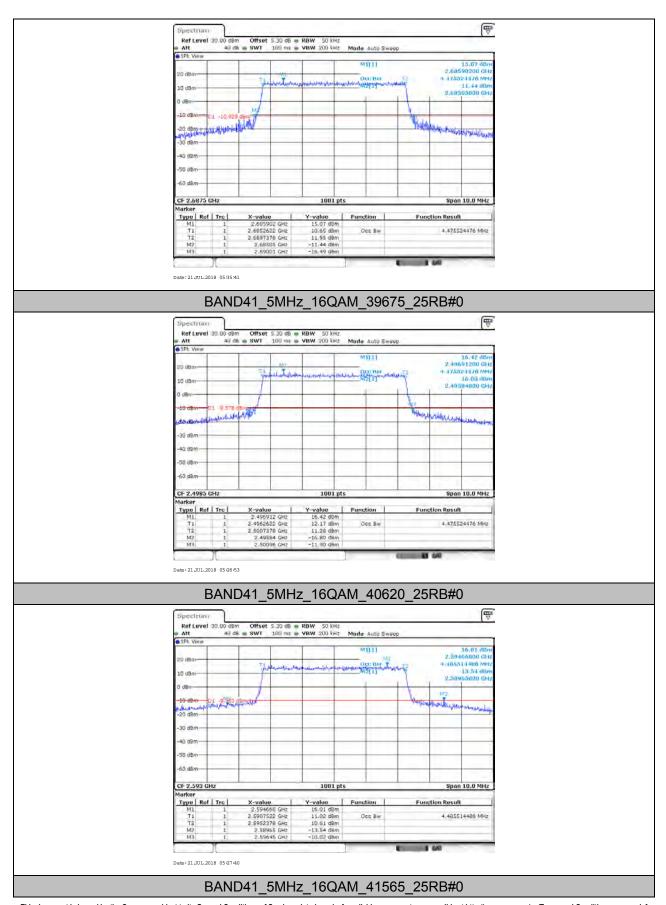
Page: 19 of 59





Report No.: SZEM180500437001

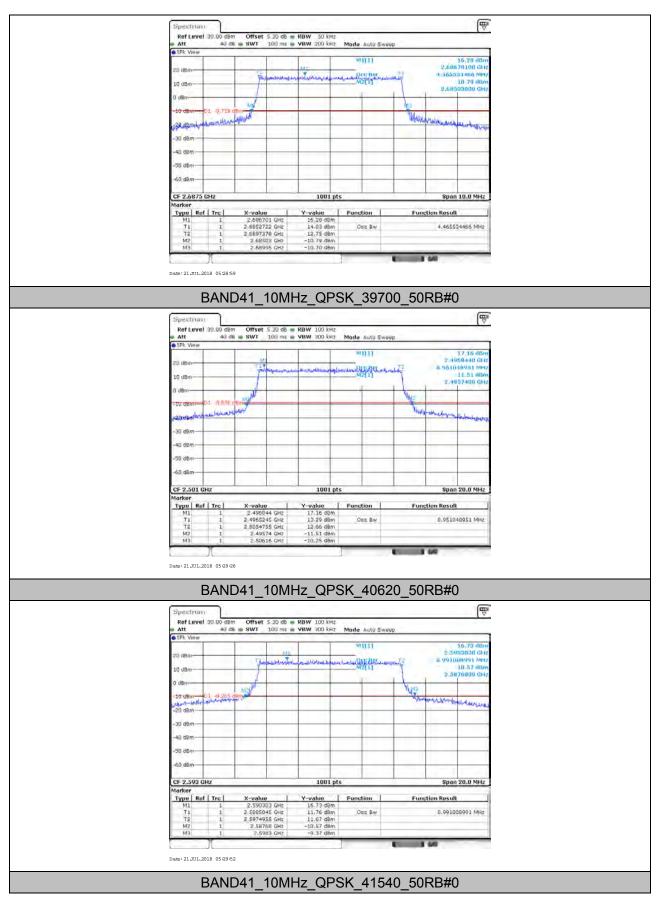
Page: 20 of 59





Report No.: SZEM180500437001

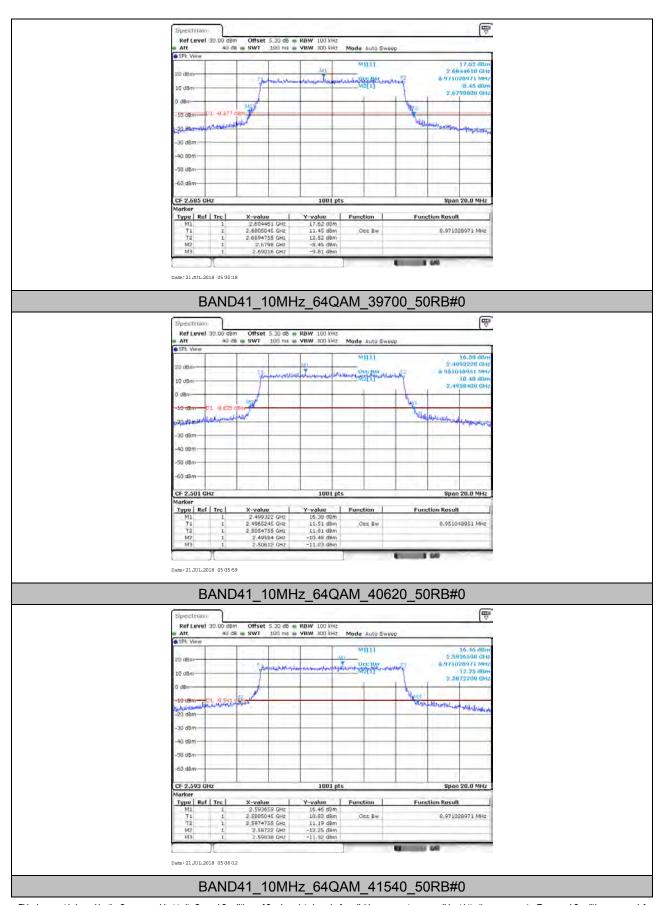
Page: 21 of 59





Report No.: SZEM180500437001

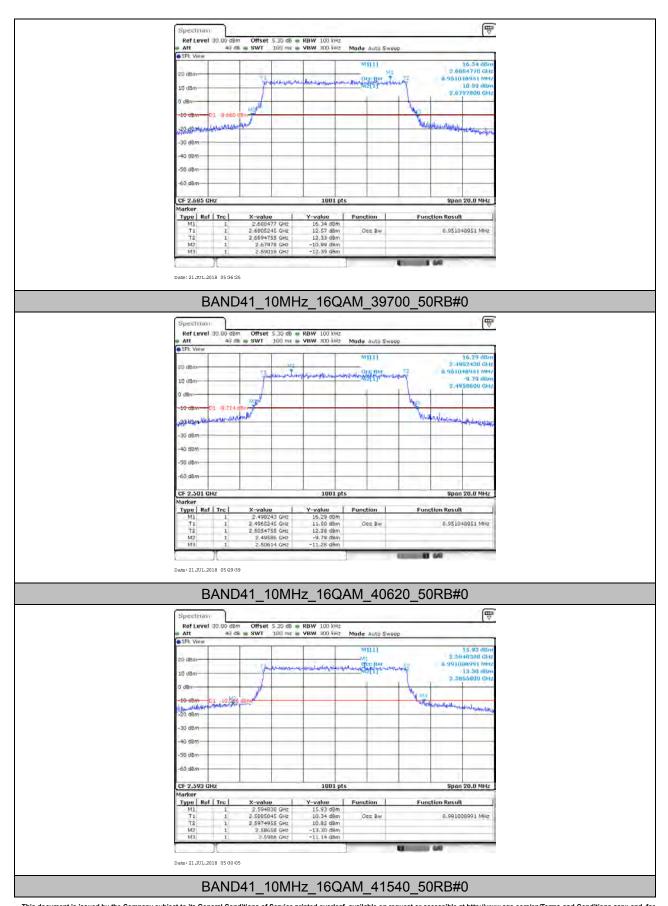
Page: 22 of 59





Report No.: SZEM180500437001

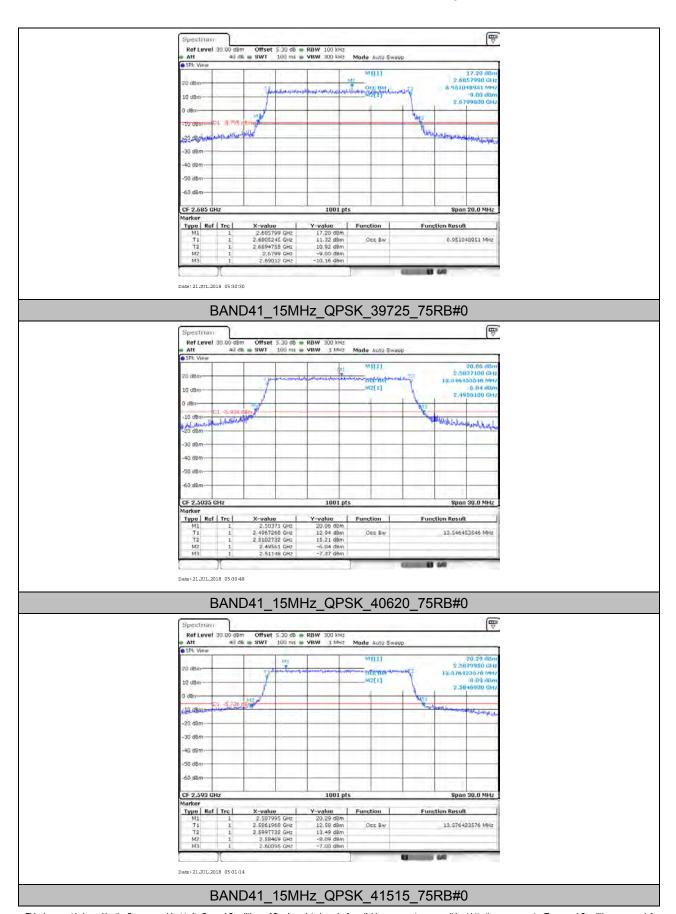
Page: 23 of 59





Report No.: SZEM180500437001

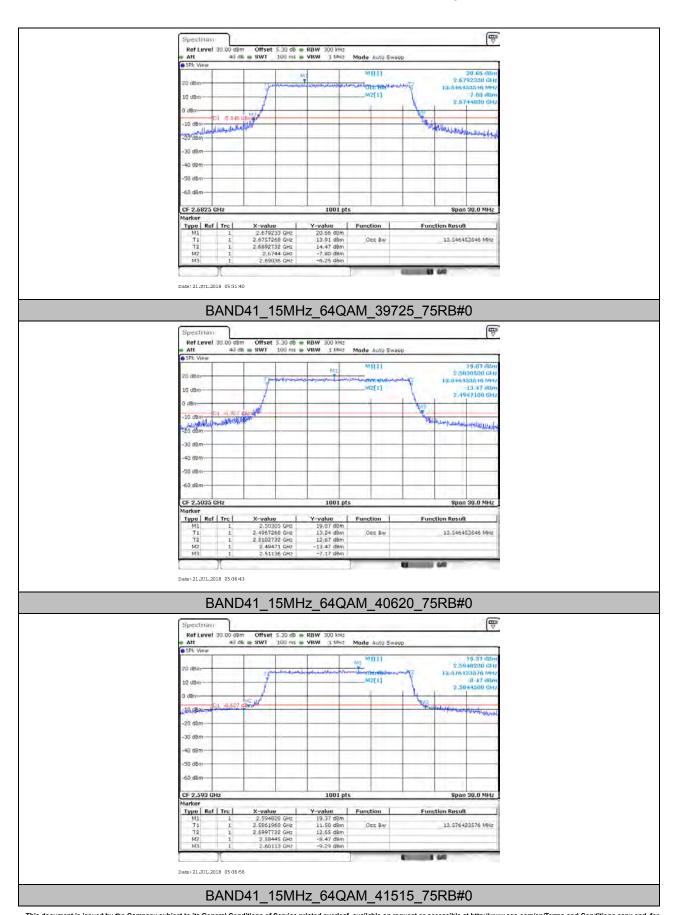
Page: 24 of 59





Report No.: SZEM180500437001

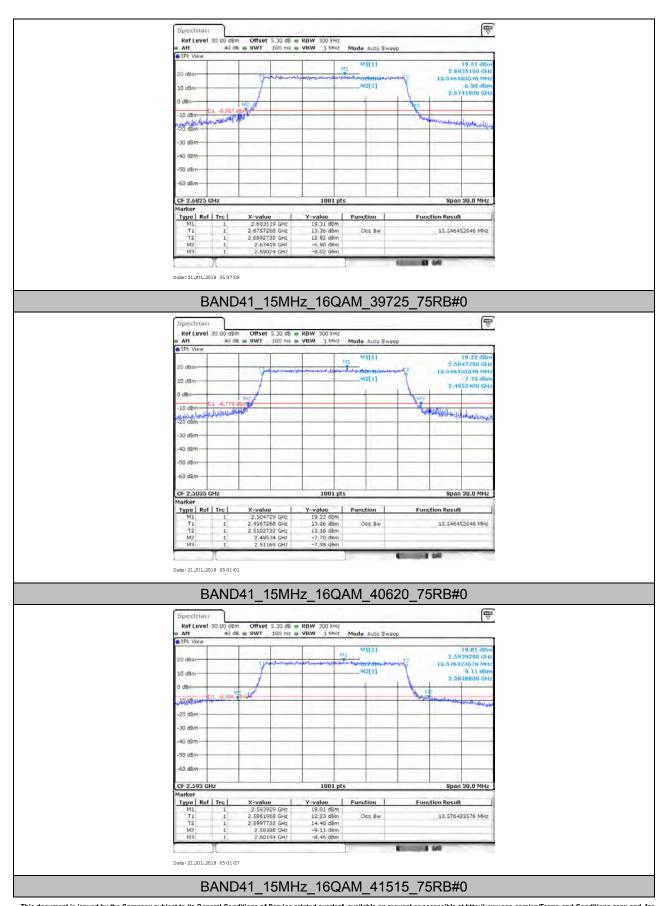
Page: 25 of 59





Report No.: SZEM180500437001

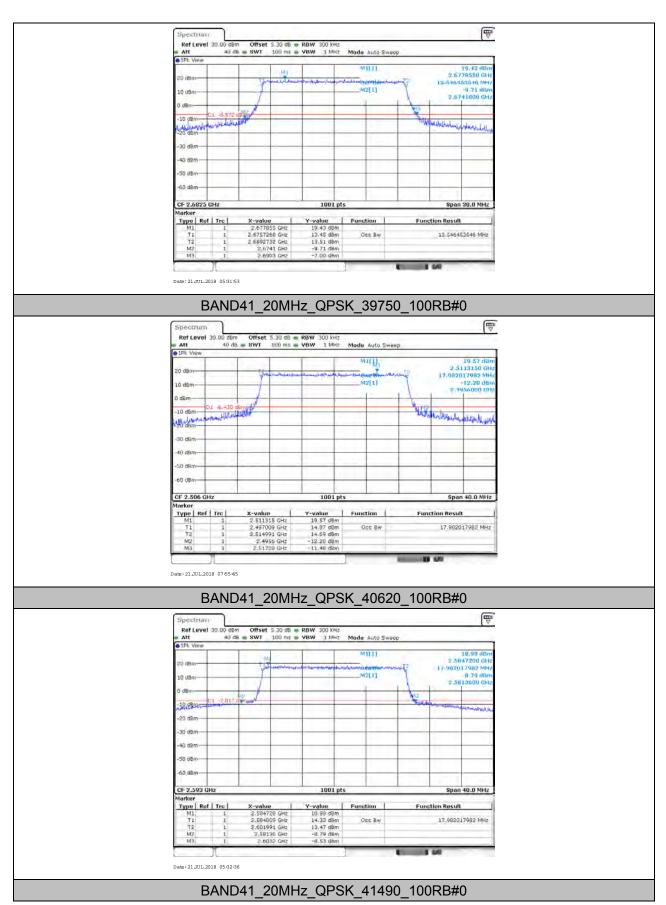
Page: 26 of 59





Report No.: SZEM180500437001

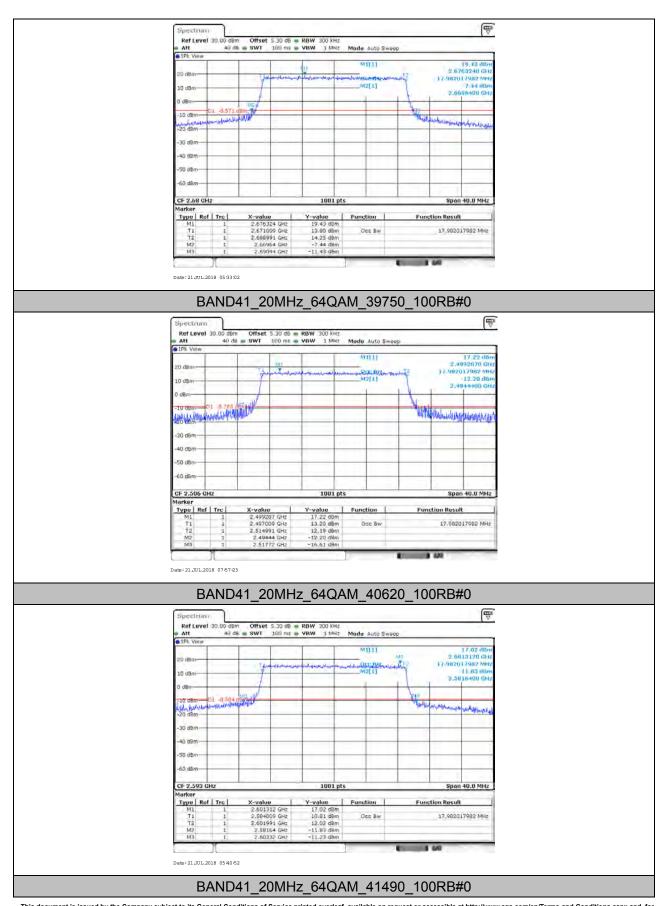
Page: 27 of 59





Report No.: SZEM180500437001

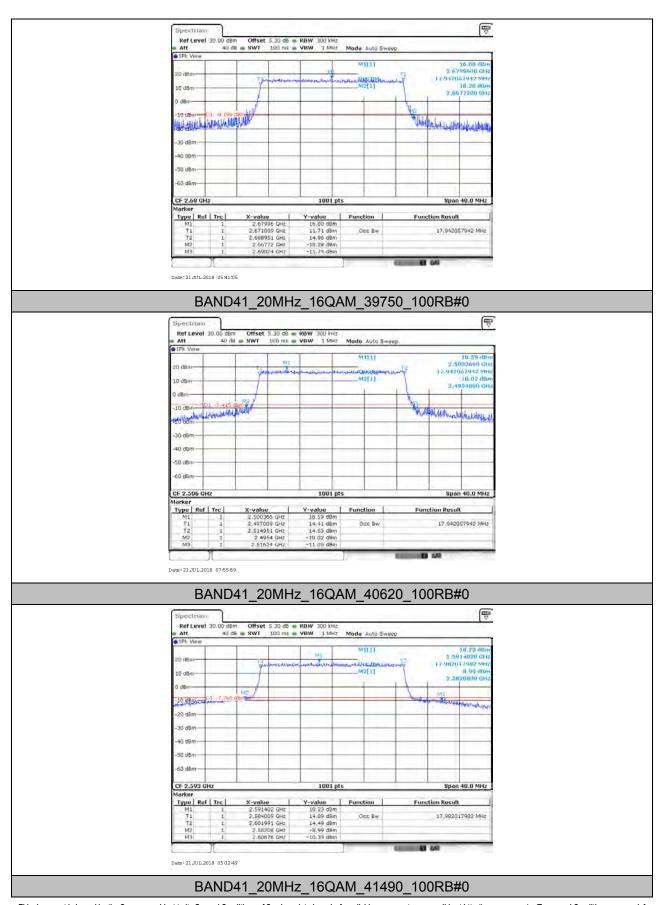
Page: 28 of 59





Report No.: SZEM180500437001

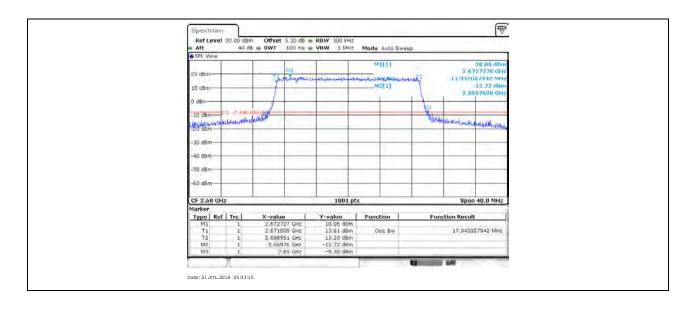
Page: 29 of 59





Report No.: SZEM180500437001

Page: 30 of 59



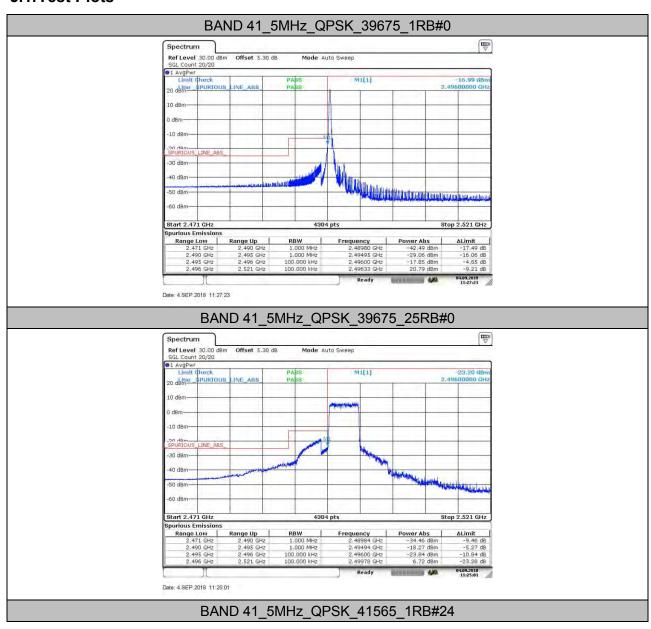


Report No.: SZEM180500437001

Page: 31 of 59

5. Band Edge Compliance

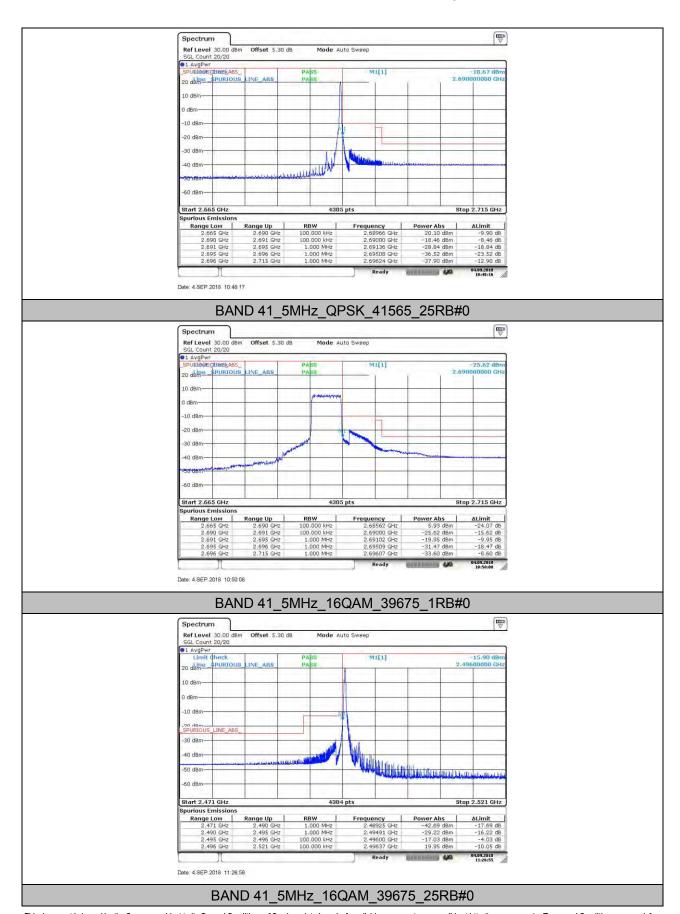
5.1. Test Plots





Report No.: SZEM180500437001

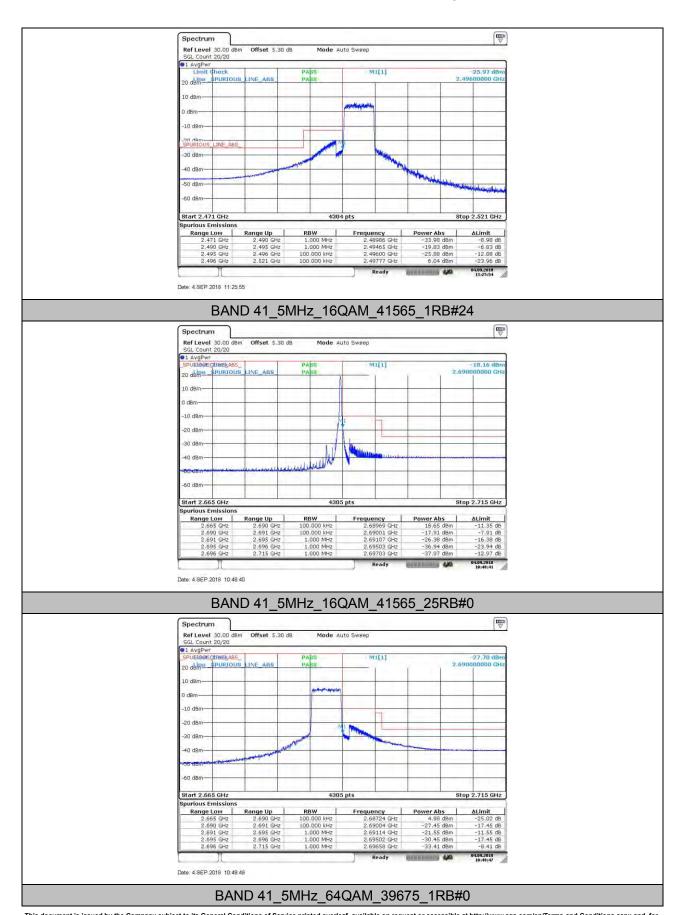
Page: 32 of 59





Report No.: SZEM180500437001

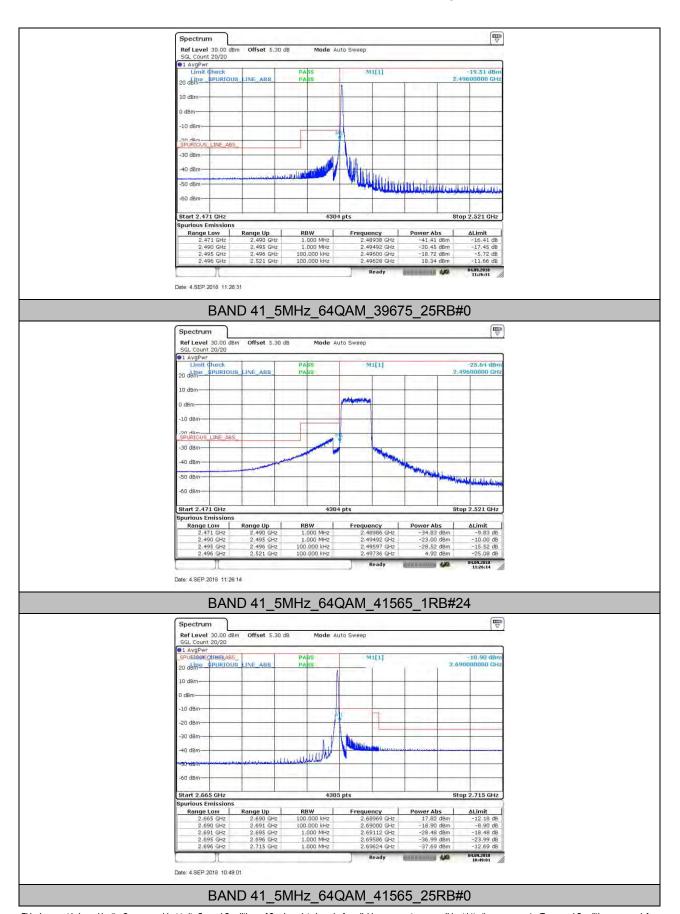
Page: 33 of 59





Report No.: SZEM180500437001

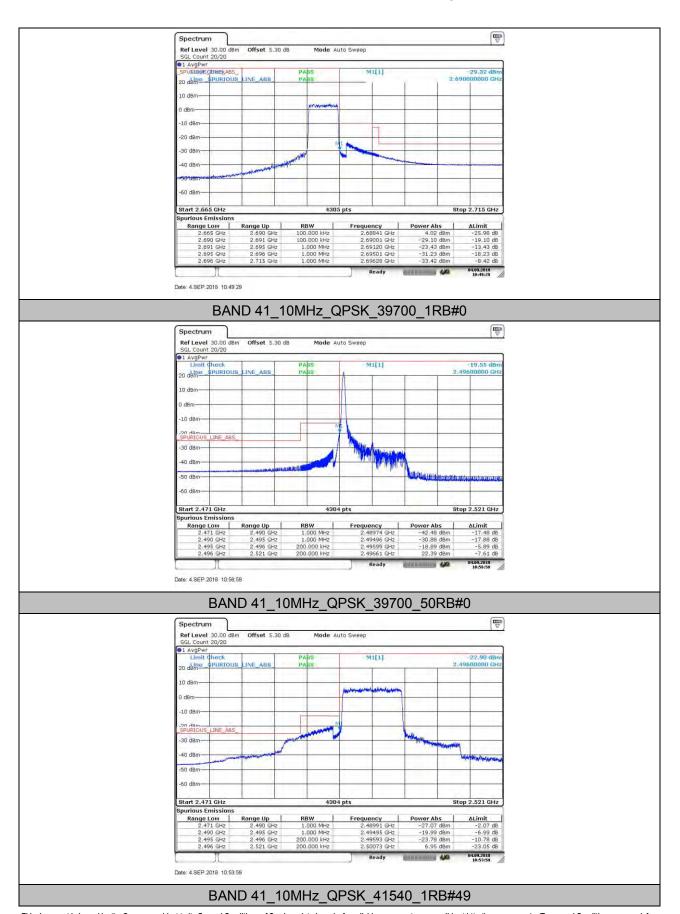
Page: 34 of 59





Report No.: SZEM180500437001

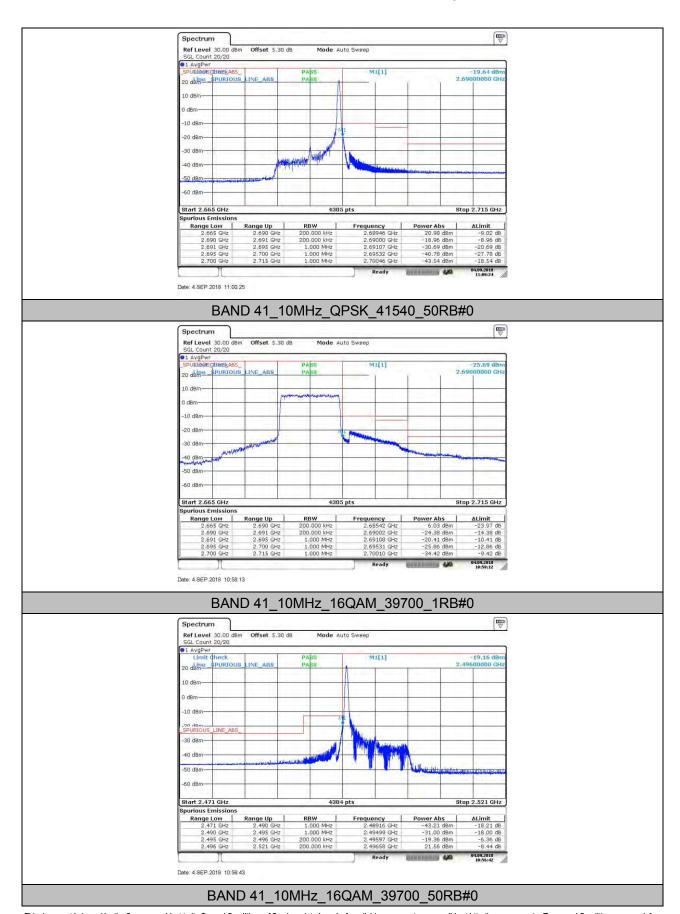
Page: 35 of 59





Report No.: SZEM180500437001

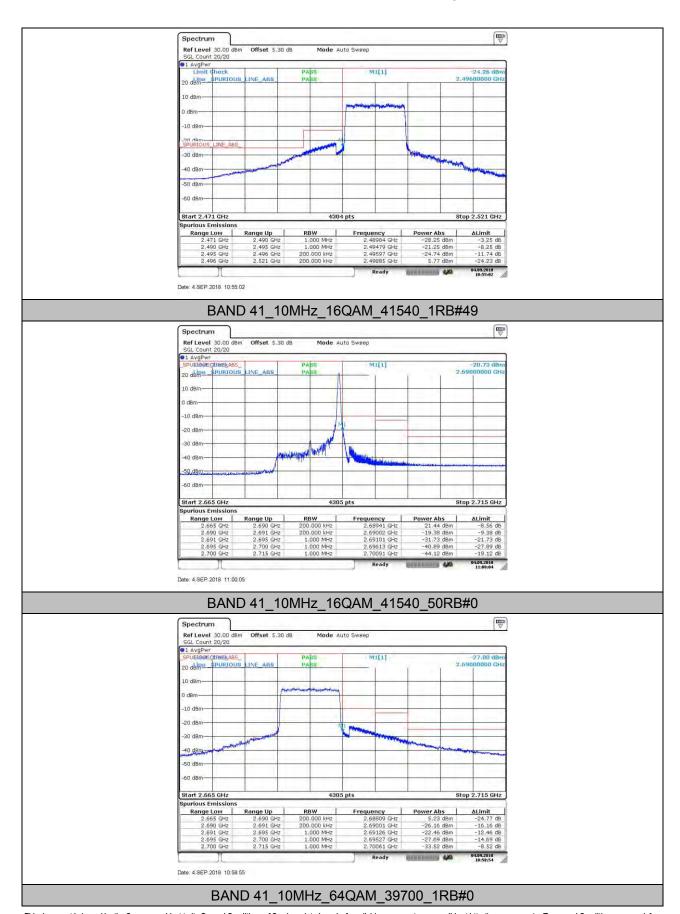
Page: 36 of 59





Report No.: SZEM180500437001

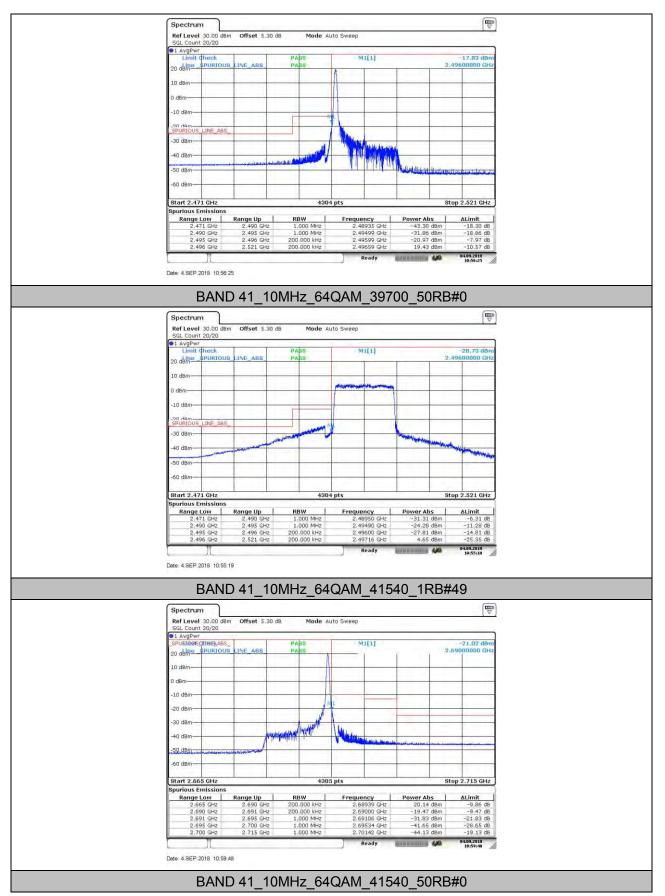
Page: 37 of 59





Report No.: SZEM180500437001

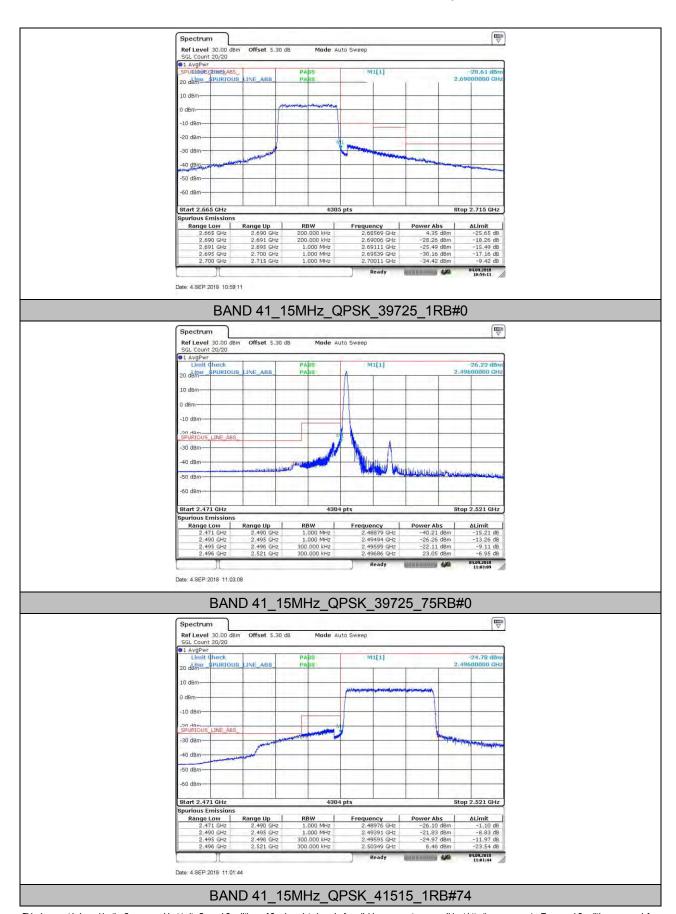
Page: 38 of 59





Report No.: SZEM180500437001

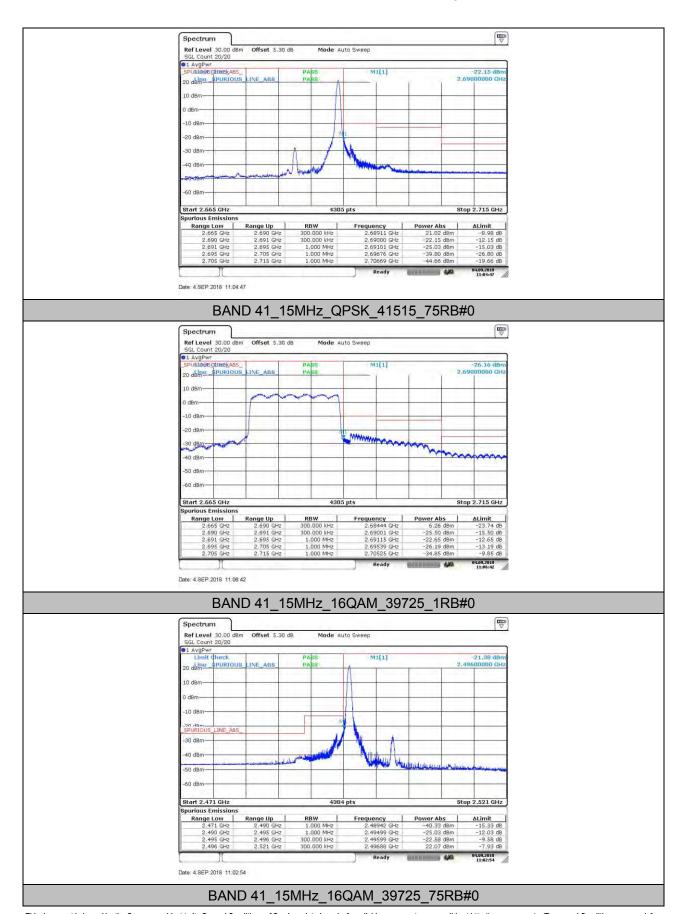
Page: 39 of 59





Report No.: SZEM180500437001

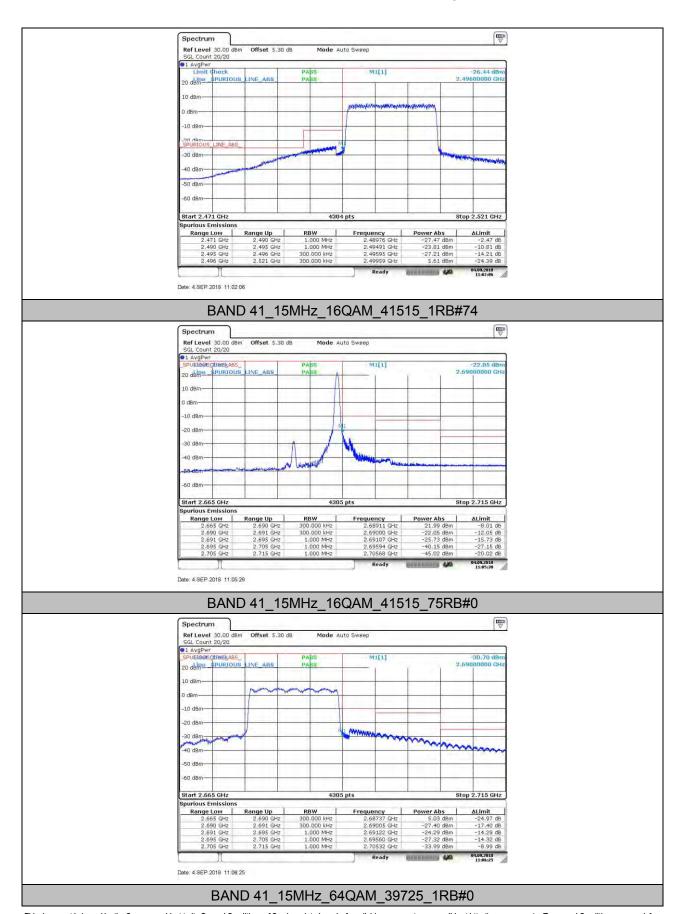
Page: 40 of 59





Report No.: SZEM180500437001

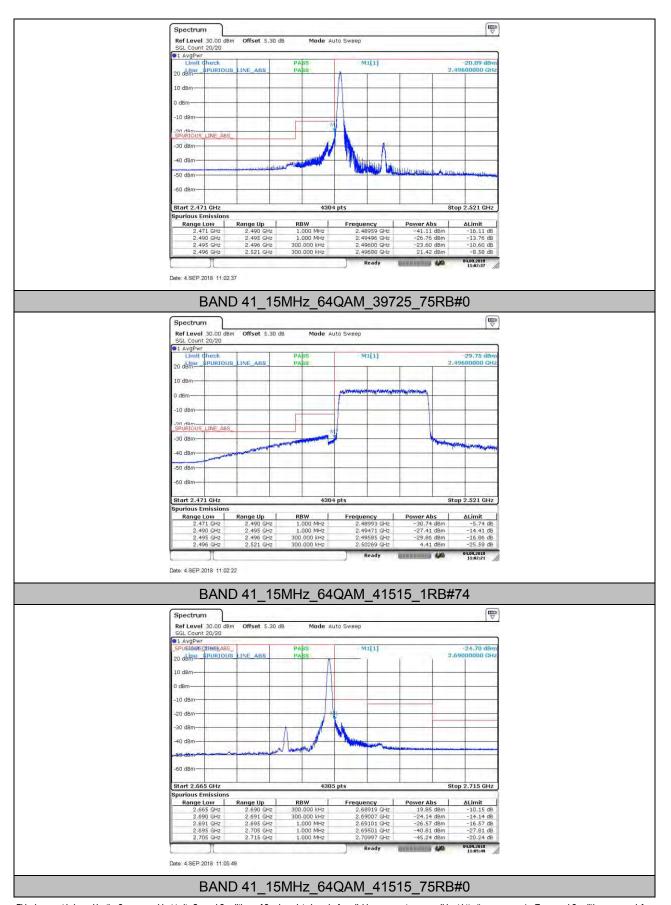
Page: 41 of 59





Report No.: SZEM180500437001

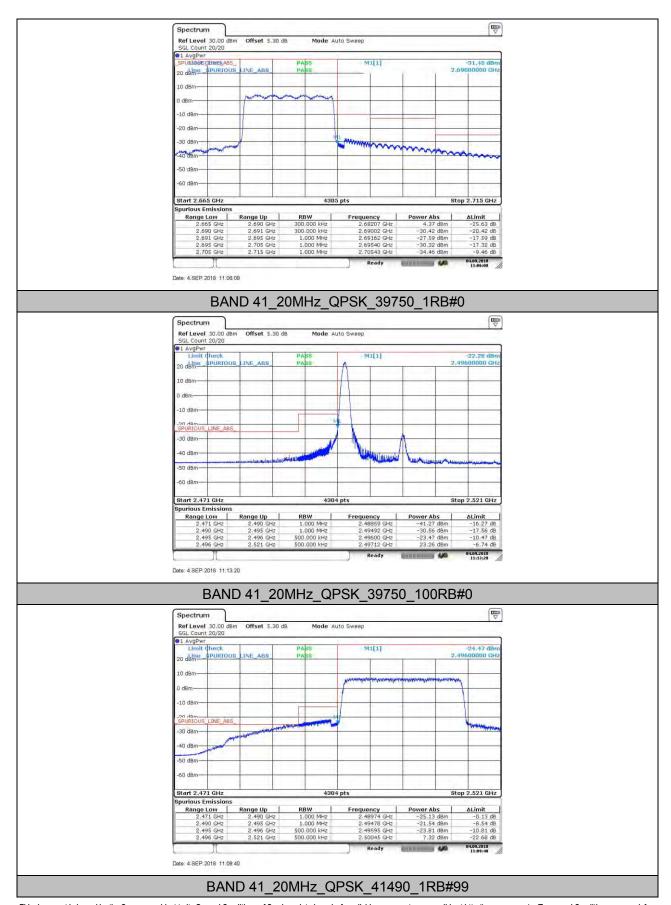
Page: 42 of 59





Report No.: SZEM180500437001

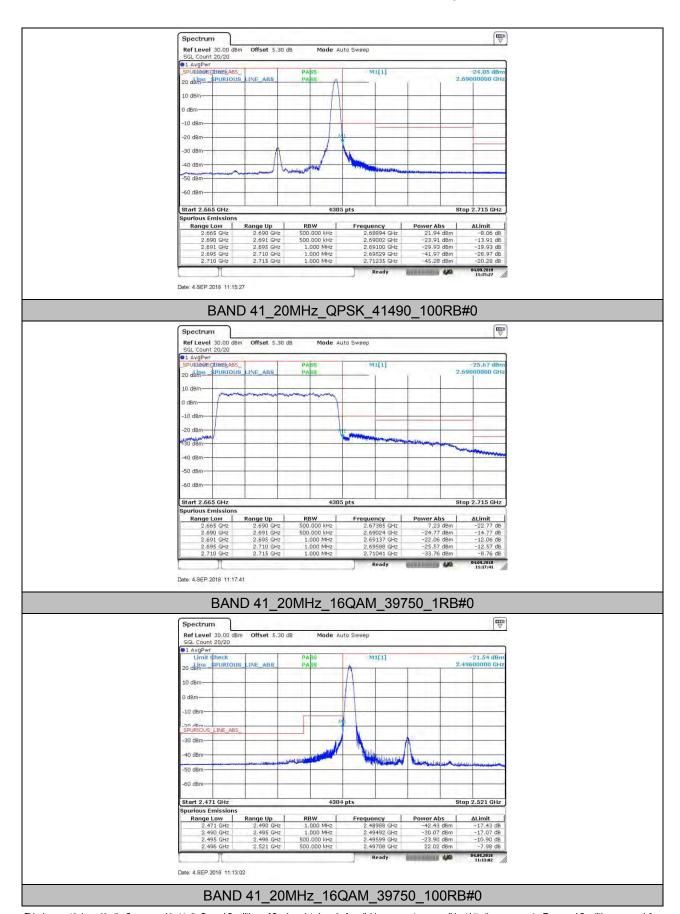
Page: 43 of 59





Report No.: SZEM180500437001

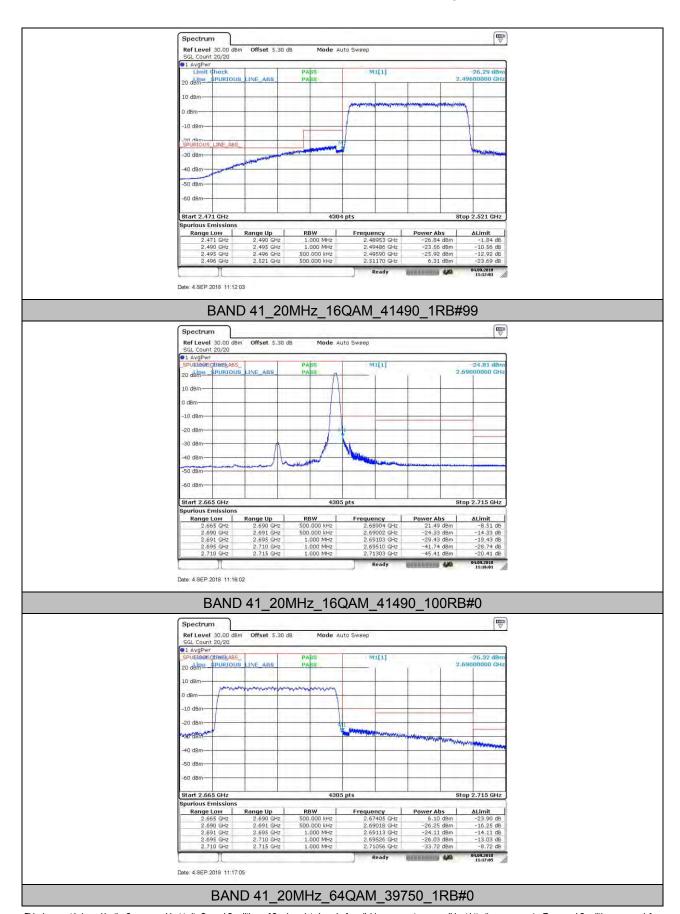
Page: 44 of 59





Report No.: SZEM180500437001

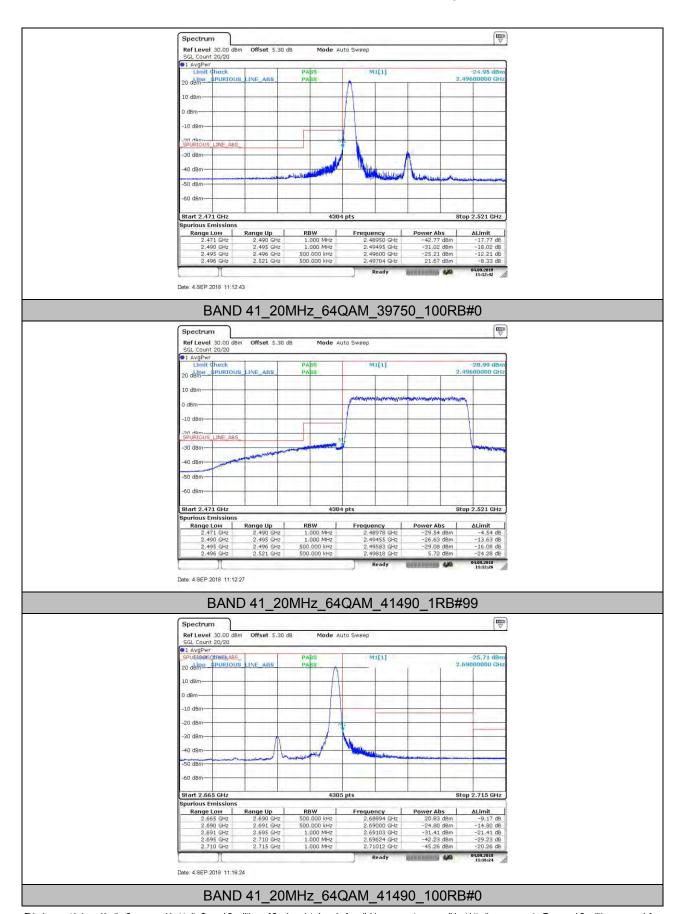
Page: 45 of 59





Report No.: SZEM180500437001

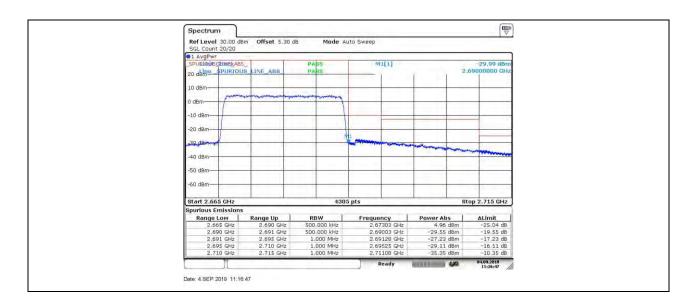
Page: 46 of 59





Report No.: SZEM180500437001

Page: 47 of 59





Report No.: SZEM180500437001

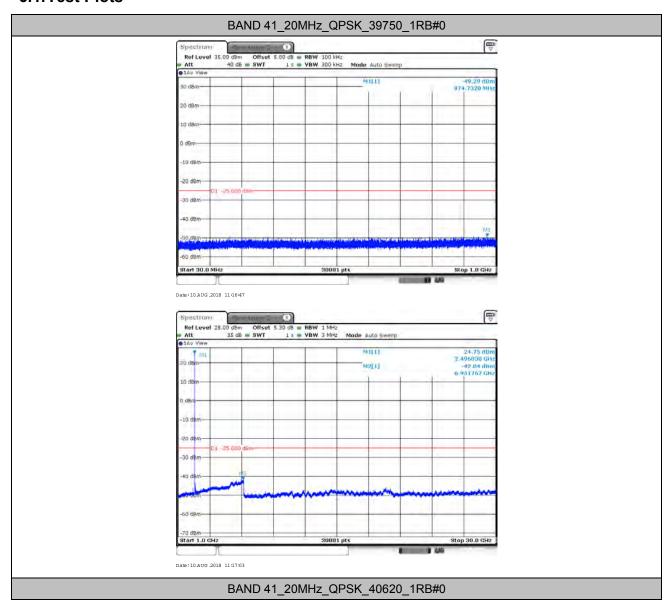
Page: 48 of 59

6. Spurious Emission at Antenna Terminal

NOTE1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k = 4 * (Span / RBW) with k = 4 * (Span / RBW) with k = 4 * (Span / RBW) with k = 4 * (Span / RBW).

NOTE2: only the worst case data displayed in this report.

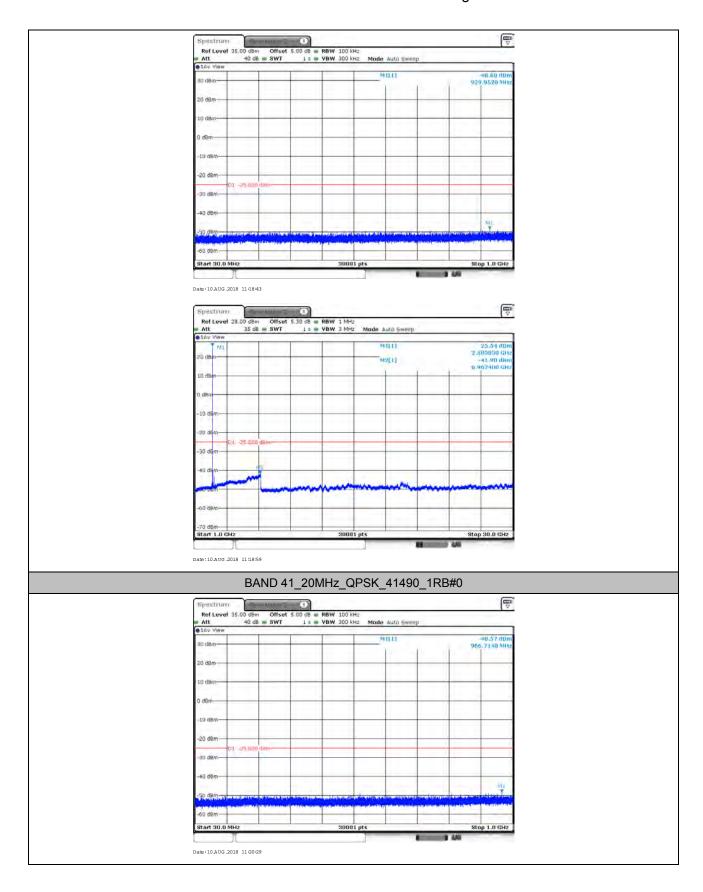
6.1. Test Plots





Report No.: SZEM180500437001

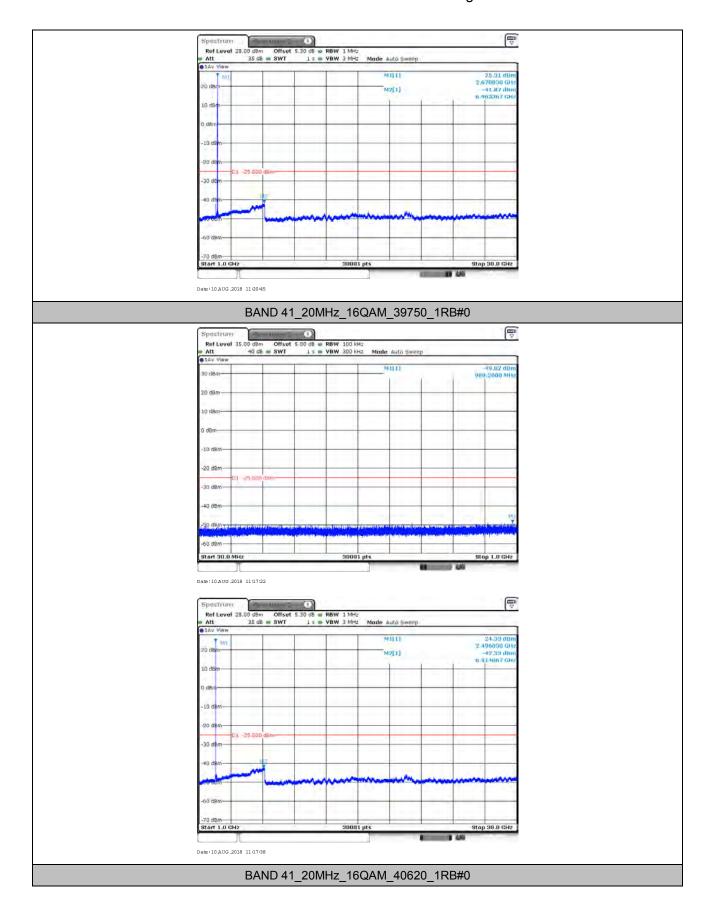
Page: 49 of 59





Report No.: SZEM180500437001

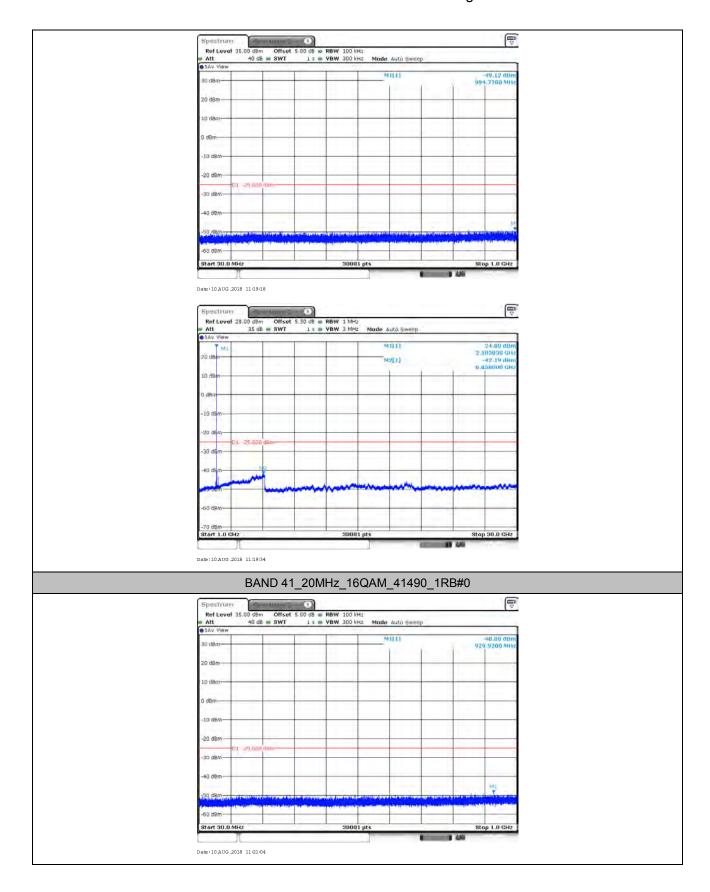
Page: 50 of 59





Report No.: SZEM180500437001

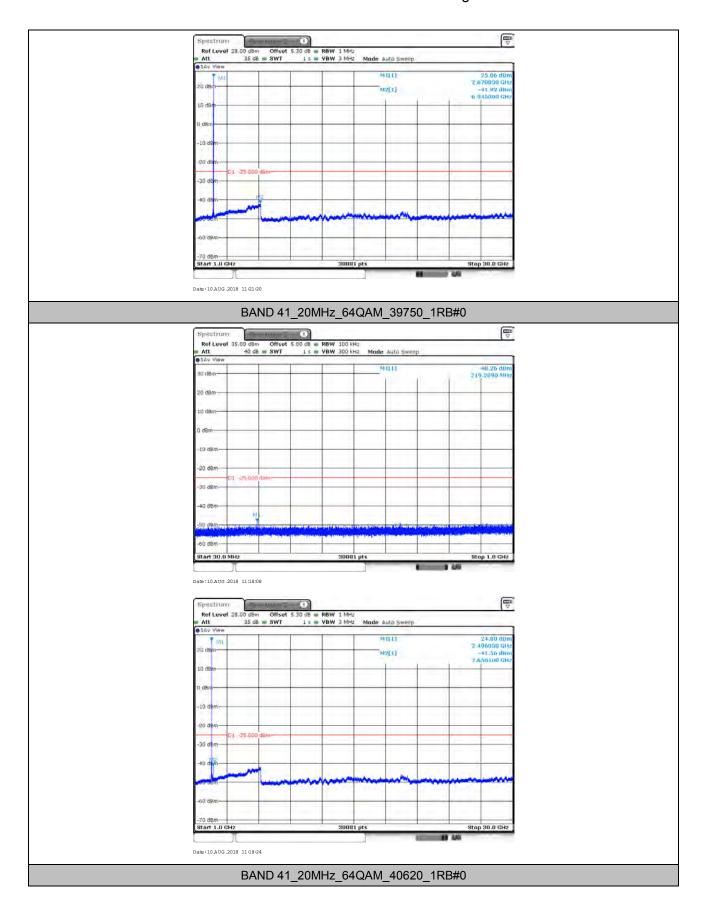
Page: 51 of 59





Report No.: SZEM180500437001

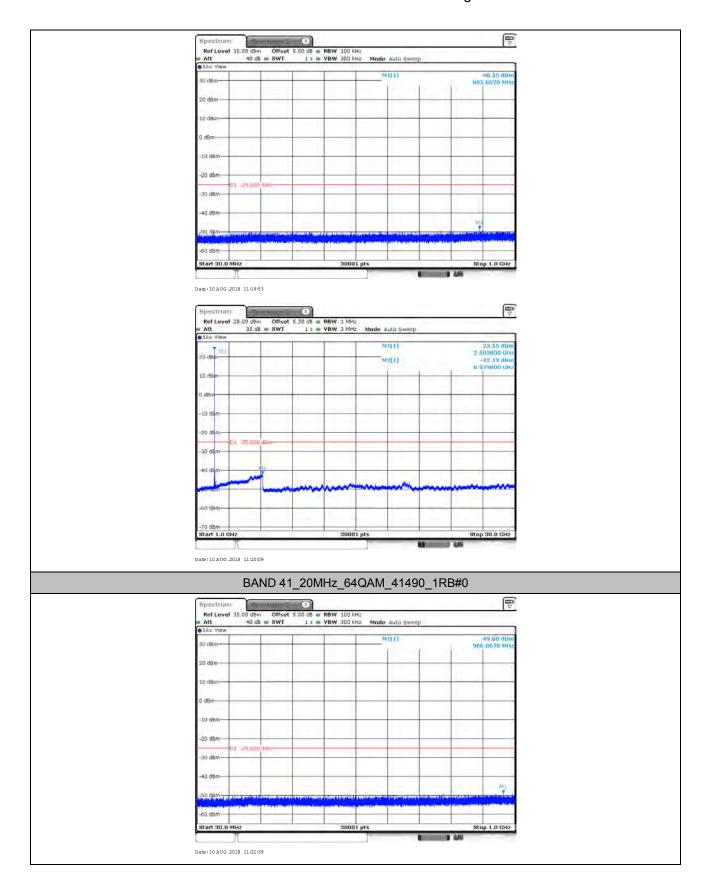
Page: 52 of 59





Report No.: SZEM180500437001

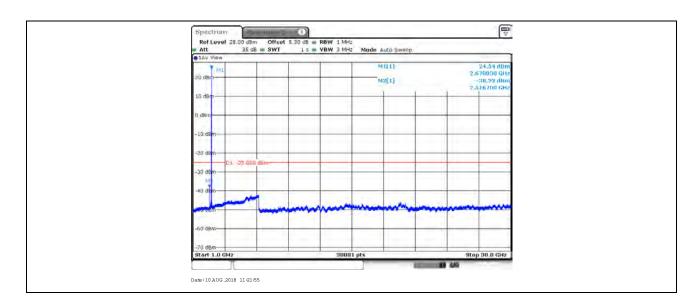
Page: 53 of 59





Report No.: SZEM180500437001

Page: 54 of 59





Report No.: SZEM180500437001

Page: 55 of 59

7. Field Strength of Spurious Radiation

7.1.Test BAND = LTE BAND 41

7.1.1. Test Mode =LTE/TM1 20MHz

7.1.1.1 Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 65.000000 | -81.97 | -25.00 | 56.97 | Vertical |
| 104.250000 | -85.03 | -25.00 | 60.03 | Vertical |
| 359.750000 | -85.80 | -25.00 | 60.80 | Vertical |
| 4993.875000 | -63.91 | -25.00 | 38.91 | Vertical |
| 7490.850000 | -64.38 | -25.00 | 39.38 | Vertical |
| 9288.100000 | -63.16 | -25.00 | 38.16 | Vertical |
| 62.500000 | -77.55 | -25.00 | 52.55 | Horizontal |
| 104.300000 | -89.24 | -25.00 | 64.24 | Horizontal |
| 267.750000 | -86.71 | -25.00 | 61.71 | Horizontal |
| 5036.450000 | -65.93 | -25.00 | 40.93 | Horizontal |
| 7491.500000 | -63.21 | -25.00 | 38.21 | Horizontal |
| 11892.975000 | -62.62 | -25.00 | 37.62 | Horizontal |

7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 64.800000 | -81.42 | -25.00 | 56.42 | Vertical |
| 125.000000 | -87.43 | -25.00 | 62.43 | Vertical |
| 334.400000 | -86.44 | -25.00 | 61.44 | Vertical |
| 5168.075000 | -65.68 | -25.00 | 40.68 | Vertical |
| 7066.075000 | -64.27 | -25.00 | 39.27 | Vertical |
| 10621.900000 | -62.77 | -25.00 | 37.77 | Vertical |
| 62.650000 | -77.65 | -25.00 | 52.65 | Horizontal |
| 104.300000 | -88.37 | -25.00 | 63.37 | Horizontal |
| 434.050000 | -82.77 | -25.00 | 57.77 | Horizontal |
| 4295.775000 | -66.55 | -25.00 | 41.55 | Horizontal |
| 6487.575000 | -64.77 | -25.00 | 39.77 | Horizontal |
| 9267.950000 | -63.28 | -25.00 | 38.28 | Horizontal |



Report No.: SZEM180500437001

Page: 56 of 59

7.1.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 63.500000 | -82.01 | -25.00 | 57.01 | Vertical |
| 125.000000 | -86.82 | -25.00 | 61.82 | Vertical |
| 339.200000 | -86.31 | -25.00 | 61.31 | Vertical |
| 5341.950000 | -62.44 | -25.00 | 37.44 | Vertical |
| 7866.225000 | -63.66 | -25.00 | 38.66 | Vertical |
| 10589.725000 | -63.27 | -25.00 | 38.27 | Vertical |
| 56.400000 | -77.59 | -25.00 | 52.59 | Horizontal |
| 104.300000 | -89.37 | -25.00 | 64.37 | Horizontal |
| 262.650000 | -87.77 | -25.00 | 62.77 | Horizontal |
| 5341.950000 | -62.92 | -25.00 | 37.92 | Horizontal |
| 7951.700000 | -63.56 | -25.00 | 38.56 | Horizontal |
| 10599.150000 | -63.27 | -25.00 | 38.27 | Horizontal |

NOTE:

- 1) All modes are tested, but the data presented above is the worst case.the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



Report No.: SZEM180500437001

Page: 57 of 59

8. Frequency Stability

8.1. Frequency Vs Voltage

| | | | | | Voltage | | | | | |
|--------|-----------|------------|---------|-----------------|------------------|------------------|-------------------|-----------------|----------------|---------|
| BAND | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | | | 100RB#0 | VH | NT | -0.90 | -0.000359 | ±2.5 | PASS |
| | | | 39750 | 100RB#0 | VL | NT | 0.10 | 0.000040 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | -0.20 | -0.000080 | ±2.5 | PASS |
| | | | | 100RB#0 | VH | NT | 1.90 | 0.000733 | ±2.5 | PASS |
| | | QPSK | 40620 | 100RB#0 | VL | NT | -0.60 | -0.000231 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | -2.10 | -0.000810 | ±2.5 | PASS |
| | | | | 100RB#0 | VH | NT | 4.20 | 0.001567 | ±2.5 | PASS |
| | | | 41490 | 100RB#0 | VL | NT | 2.20 | 0.000821 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | 0.20 | 0.000075 | ±2.5 | PASS |
| | | | | 100RB#0 | VH | NT | -0.50 | -0.000200 | ±2.5 | PASS |
| | | MHz 16QAM | 39750 | 100RB#0 | VL | NT | -1.50 | -0.000599 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | 4.40 | 0.001756 | ±2.5 | PASS |
| | | | 40620 | 100RB#0 | VH | NT | 3.80 | 0.001465 | ±2.5 | PASS |
| BAND41 | 20MHz | | | 100RB#0 | VL | NT | 2.30 | 0.000887 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | 1.60 | 0.000617 | ±2.5 | PASS |
| | | | | 100RB#0 | VH | NT | 0.50 | 0.000187 | ±2.5 | PASS |
| | | | | 100RB#0 | VL | NT | -1.60 | -0.000597 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | 1.10 | 0.000410 | ±2.5 | PASS |
| | | | 39750 | 100RB#0 | VH | NT | 4.90 | 0.001955 | ±2.5 | PASS |
| | | | | 100RB#0 | VL | NT | 2.80 | 0.001117 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | 1.10 | 0.000439 | ±2.5 | PASS |
| | | 64QAM | | 100RB#0 | VH | NT | 1.30 | 0.000501 | ±2.5 | PASS |
| | | | 40620 | 100RB#0 | VL | NT | 6.00 | 0.002314 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | 4.00 | 0.001543 | ±2.5 | PASS |
| | | | | 100RB#0 | VH | NT | 0.90 | 0.000336 | ±2.5 | PASS |
| | | | 41490 | 100RB#0 | VL | NT | 0.40 | 0.000149 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | -0.40 | -0.000149 | ±2.5 | PASS |



Report No.: SZEM180500437001

Page: 58 of 59

8.2. Frequency Vs Temperature

| | Temperature | | | | | | | | | |
|--------|-------------|------------|-----------|-----------------|------------------|------------------|-------------------|-----------------|----------------|---------|
| BAND | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | | | 100RB#0 | NV | 0 | -0.90 | -0.000359 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 10 | 1.90 | 0.000758 | ±2.5 | PASS |
| | | | 39750 | 100RB#0 | NV | 20 | 0.80 | 0.000319 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -20 | 1.90 | 0.000758 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | 2.50 | 0.000998 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 0 | 0.20 | 0.000077 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 10 | 1.30 | 0.000501 | ±2.5 | PASS |
| | | QPSK | 40620 | 100RB#0 | NV | 20 | 1.80 | 0.000694 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -20 | -1.60 | -0.000617 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | 0.90 | 0.000347 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 0 | -0.40 | -0.000149 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 10 | 1.30 | 0.000485 | ±2.5 | PASS |
| | | | 41490 | 100RB#0 | NV | 20 | 1.30 | 0.000485 | ±2.5 | PASS |
| | | | - | 100RB#0 | NV | -20 | 0.60 | 0.000224 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | -0.30 | -0.000112 | ±2.5 | PASS |
| | | Z | 39750 | 100RB#0 | NV | 0 | 4.30 | 0.001716 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 10 | 2.00 | 0.000798 | ±2.5 | PASS |
| BAND41 | 20MHz | | | 100RB#0 | NV | 20 | 2.70 | 0.001077 | ±2.5 | PASS |
| DAND41 | ZUIVITZ | | | 100RB#0 | NV | -20 | 6.60 | 0.002634 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | 2.50 | 0.000998 | ±2.5 | PASS |
| | | | 40620 | 100RB#0 | NV | 0 | -1.10 | -0.000424 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 10 | 3.80 | 0.001465 | ±2.5 | PASS |
| | | 16QAM | | 100RB#0 | NV | 20 | 1.00 | 0.000386 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -20 | 1.60 | 0.000617 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | -3.00 | -0.001157 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 0 | 1.70 | 0.000634 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 10 | 3.80 | 0.001418 | ±2.5 | PASS |
| | | | 41490 | 100RB#0 | NV | 20 | 0.20 | 0.000075 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -20 | -0.20 | -0.000075 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | 1.20 | 0.000448 | ±2.5 | PASS |
| | | 040AM | | 100RB#0 | NV | 0 | -0.70 | -0.000279 | ±2.5 | PASS |
| | | | QAM 39750 | 100RB#0 | NV | 10 | 2.80 | 0.001117 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 20 | 3.40 | 0.001357 | ±2.5 | PASS |
| | | 04QAW | | 100RB#0 | NV | -20 | -0.30 | -0.00012 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | 1.60 | 0.000638 | ±2.5 | PASS |
| | | | 40620 | 100RB#0 | NV | 0 | -0.10 | -0.000039 | ±2.5 | PASS |



Report No.: SZEM180500437001

Page: 59 of 59

| | | | | 100RB#0 | NV | 10 | -1.80 | -0.000694 | ±2.5 | PASS |
|--|--|--|-------|---------|----|-----|-------|-----------|------|------|
| | | | | 100RB#0 | NV | 20 | 1.00 | 0.000386 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -20 | 1.50 | 0.000578 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | 1.20 | 0.000463 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 0 | -0.50 | -0.000187 | ±2.5 | PASS |
| | | | 41490 | 100RB#0 | NV | 10 | -3.80 | -0.001418 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 20 | 2.50 | 0.000933 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -20 | 4.80 | 0.001791 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | 2.50 | 0.000933 | ±2.5 | PASS |

The End