

Appendix for LTE Band 26A

Model: LGE-NX9

BTL-FCCP-4-2203G019

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1 Appendix A: Effective (Isotropic) Radiated Power of Transmitter

1.1 Test Results

| Effective (Isotropic) Radiated Power of Transmitter | | | | | | | | | |
|---|----------------------|--------------|---------|------------|----------------|------------|-----------|-------------|---------|
| Test Mode | Test Bandwidth [MHz] | Test Channel | Test RB | Modulation | Measured [dBm] | Gain [dBi] | ERP [dBm] | Limit [dBm] | Verdict |
| TM1 | 1.4 | LCH | RB6#0 | QPSK | 24.35 | -6.0 | 16.20 | 38.45 | PASS |
| | | | RB1#0 | QPSK | 24.93 | -6.0 | 16.78 | 38.45 | PASS |
| | | | RB1#5 | QPSK | 24.81 | -6.0 | 16.66 | 38.45 | PASS |
| | | MCH | RB6#0 | QPSK | 24.16 | -6.0 | 16.01 | 38.45 | PASS |
| | | | RB1#0 | QPSK | 24.72 | -6.0 | 16.57 | 38.45 | PASS |
| | | | RB1#5 | QPSK | 24.69 | -6.0 | 16.54 | 38.45 | PASS |
| | | HCH | RB6#0 | QPSK | 24.16 | -6.0 | 16.01 | 38.45 | PASS |
| | | | RB1#0 | QPSK | 24.51 | -6.0 | 16.36 | 38.45 | PASS |
| | | | RB1#5 | QPSK | 24.70 | -6.0 | 16.55 | 38.45 | PASS |
| | 5 | LCH | RB25#0 | QPSK | 24.26 | -6.0 | 16.11 | 38.45 | PASS |
| | | | RB1#0 | QPSK | 24.74 | -6.0 | 16.59 | 38.45 | PASS |
| | | | RB1#24 | QPSK | 24.65 | -6.0 | 16.50 | 38.45 | PASS |
| | | MCH | RB25#0 | QPSK | 24.18 | -6.0 | 16.03 | 38.45 | PASS |
| | | | RB1#0 | QPSK | 24.74 | -6.0 | 16.59 | 38.45 | PASS |
| | | | RB1#24 | QPSK | 24.70 | -6.0 | 16.55 | 38.45 | PASS |
| | | HCH | RB25#0 | QPSK | 24.14 | -6.0 | 15.99 | 38.45 | PASS |
| | | | RB1#0 | QPSK | 24.68 | -6.0 | 16.53 | 38.45 | PASS |
| | | | RB1#24 | QPSK | 24.63 | -6.0 | 16.48 | 38.45 | PASS |
| | 10 | LCH | RB50#0 | QPSK | 24.22 | -6.0 | 16.07 | 38.45 | PASS |
| | | | RB1#0 | QPSK | 24.75 | -6.0 | 16.60 | 38.45 | PASS |
| | | | RB1#49 | QPSK | 24.51 | -6.0 | 16.36 | 38.45 | PASS |
| | | MCH | RB50#0 | QPSK | 24.15 | -6.0 | 16.00 | 38.45 | PASS |
| | | | RB1#0 | QPSK | 24.64 | -6.0 | 16.49 | 38.45 | PASS |
| | | | RB1#49 | QPSK | 24.52 | -6.0 | 16.37 | 38.45 | PASS |
| | | HCH | RB50#0 | QPSK | 24.14 | -6.0 | 15.99 | 38.45 | PASS |
| | | | RB1#0 | QPSK | 24.75 | -6.0 | 16.60 | 38.45 | PASS |
| | | | RB1#49 | QPSK | 24.54 | -6.0 | 16.39 | 38.45 | PASS |

| Effective (Isotropic) Radiated Power of Transmitter | | | | | | | | | |
|---|----------------------|--------------|---------|------------|----------------|------------|-----------|-------------|---------|
| Test Mode | Test Bandwidth [MHz] | Test Channel | Test RB | Modulation | Measured [dBm] | Gain [dBi] | ERP [dBm] | Limit [dBm] | Verdict |
| TM2 | 1.4 | LCH | RB6#0 | 16QAM | 23.22 | -6.0 | 15.07 | 38.45 | PASS |
| | | | RB1#0 | 16QAM | 24.41 | -6.0 | 16.26 | 38.45 | PASS |
| | | | RB1#5 | 16QAM | 24.19 | -6.0 | 16.04 | 38.45 | PASS |
| | | MCH | RB6#0 | 16QAM | 23.20 | -6.0 | 15.05 | 38.45 | PASS |
| | | | RB1#0 | 16QAM | 24.54 | -6.0 | 16.39 | 38.45 | PASS |
| | | | RB1#5 | 16QAM | 24.38 | -6.0 | 16.23 | 38.45 | PASS |
| | | HCH | RB6#0 | 16QAM | 23.18 | -6.0 | 15.03 | 38.45 | PASS |
| | | | RB1#0 | 16QAM | 24.34 | -6.0 | 16.19 | 38.45 | PASS |
| | | | RB1#5 | 16QAM | 24.41 | -6.0 | 16.26 | 38.45 | PASS |
| | 5 | LCH | RB25#0 | 16QAM | 23.26 | -6.0 | 15.11 | 38.45 | PASS |
| | | | RB1#0 | 16QAM | 24.80 | -6.0 | 16.65 | 38.45 | PASS |
| | | | RB1#24 | 16QAM | 24.67 | -6.0 | 16.52 | 38.45 | PASS |
| | | MCH | RB25#0 | 16QAM | 23.16 | -6.0 | 15.01 | 38.45 | PASS |
| | | | RB1#0 | 16QAM | 24.45 | -6.0 | 16.30 | 38.45 | PASS |
| | | | RB1#24 | 16QAM | 24.43 | -6.0 | 16.28 | 38.45 | PASS |
| | | HCH | RB25#0 | 16QAM | 23.13 | -6.0 | 14.98 | 38.45 | PASS |
| | | | RB1#0 | 16QAM | 24.51 | -6.0 | 16.36 | 38.45 | PASS |
| | | | RB1#24 | 16QAM | 24.42 | -6.0 | 16.27 | 38.45 | PASS |
| | 10 | LCH | RB50#0 | 16QAM | 23.21 | -6.0 | 15.06 | 38.45 | PASS |
| | | | RB1#0 | 16QAM | 24.63 | -6.0 | 16.48 | 38.45 | PASS |
| | | | RB1#49 | 16QAM | 24.36 | -6.0 | 16.21 | 38.45 | PASS |
| | | MCH | RB50#0 | 16QAM | 23.16 | -6.0 | 15.01 | 38.45 | PASS |
| | | | RB1#0 | 16QAM | 24.61 | -6.0 | 16.46 | 38.45 | PASS |
| | | | RB1#49 | 16QAM | 24.31 | -6.0 | 16.16 | 38.45 | PASS |
| | | HCH | RB50#0 | 16QAM | 23.14 | -6.0 | 14.99 | 38.45 | PASS |
| | | | RB1#0 | 16QAM | 24.50 | -6.0 | 16.35 | 38.45 | PASS |
| | | | RB1#49 | 16QAM | 24.34 | -6.0 | 16.19 | 38.45 | PASS |

2 Appendix B: Peak-to-Average Ratio

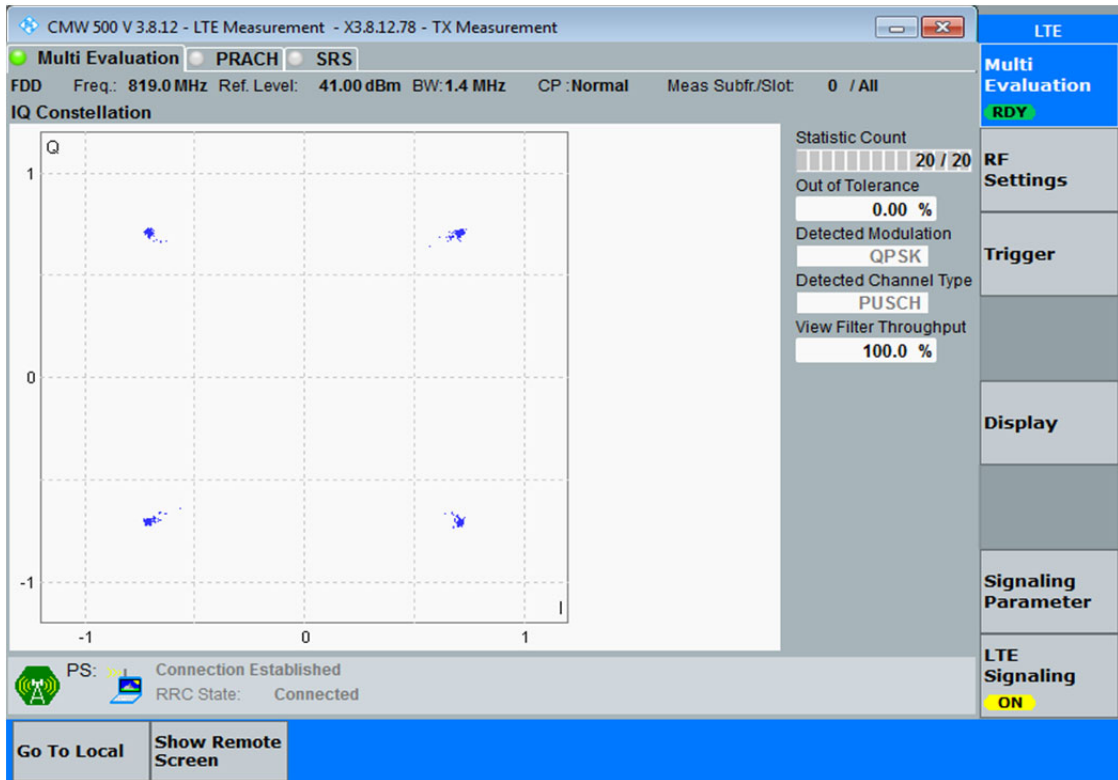
2.1 Test Results

| Peak-to-Average Ratio | | | | | | | |
|-----------------------|----------------------|--------------|---------|------------|----------------|-------------|---------|
| Test Mode | Test Bandwidth [MHz] | Test Channel | Test RB | Modulation | Measured [dBm] | Limit [dBm] | Verdict |
| TM1 | 1.4 | MCH | RB6#0 | QPSK | 4.49 | 13 | PASS |
| | | | RB1#0 | QPSK | 3.85 | 13 | PASS |
| | | | RB1#5 | QPSK | 3.95 | 13 | PASS |
| | 5 | | RB25#0 | QPSK | 5.12 | 13 | PASS |
| | | | RB1#0 | QPSK | 3.55 | 13 | PASS |
| | | | RB1#24 | QPSK | 3.75 | 13 | PASS |
| | 10 | | RB50#0 | QPSK | 5.07 | 13 | PASS |
| | | | RB1#0 | QPSK | 3.51 | 13 | PASS |
| | | | RB1#49 | QPSK | 3.90 | 13 | PASS |
| TM2 | 1.4 | MCH | RB6#0 | 16QAM | 5.42 | 13 | PASS |
| | | | RB1#0 | 16QAM | 4.44 | 13 | PASS |
| | | | RB1#5 | 16QAM | 4.56 | 13 | PASS |
| | 5 | | RB25#0 | 16QAM | 6.05 | 13 | PASS |
| | | | RB1#0 | 16QAM | 3.82 | 13 | PASS |
| | | | RB1#24 | 16QAM | 4.24 | 13 | PASS |
| | 10 | | RB50#0 | 16QAM | 6.03 | 13 | PASS |
| | | | RB1#0 | 16QAM | 3.82 | 13 | PASS |
| | | | RB1#49 | 16QAM | 4.35 | 13 | PASS |
| TM3 | 1.4 | MCH | RB6#0 | 64QAM | 6.07 | 13 | PASS |
| | | | RB1#0 | 64QAM | 5.07 | 13 | PASS |
| | | | RB1#5 | 64QAM | 5.09 | 13 | PASS |
| | 5 | | RB25#0 | 64QAM | 6.57 | 13 | PASS |
| | | | RB1#0 | 64QAM | 4.81 | 13 | PASS |
| | | | RB1#24 | 64QAM | 5.11 | 13 | PASS |
| | 10 | | RB50#0 | 64QAM | 6.84 | 13 | PASS |
| | | | RB1#0 | 64QAM | 4.79 | 13 | PASS |
| | | | RB1#49 | 64QAM | 5.31 | 13 | PASS |

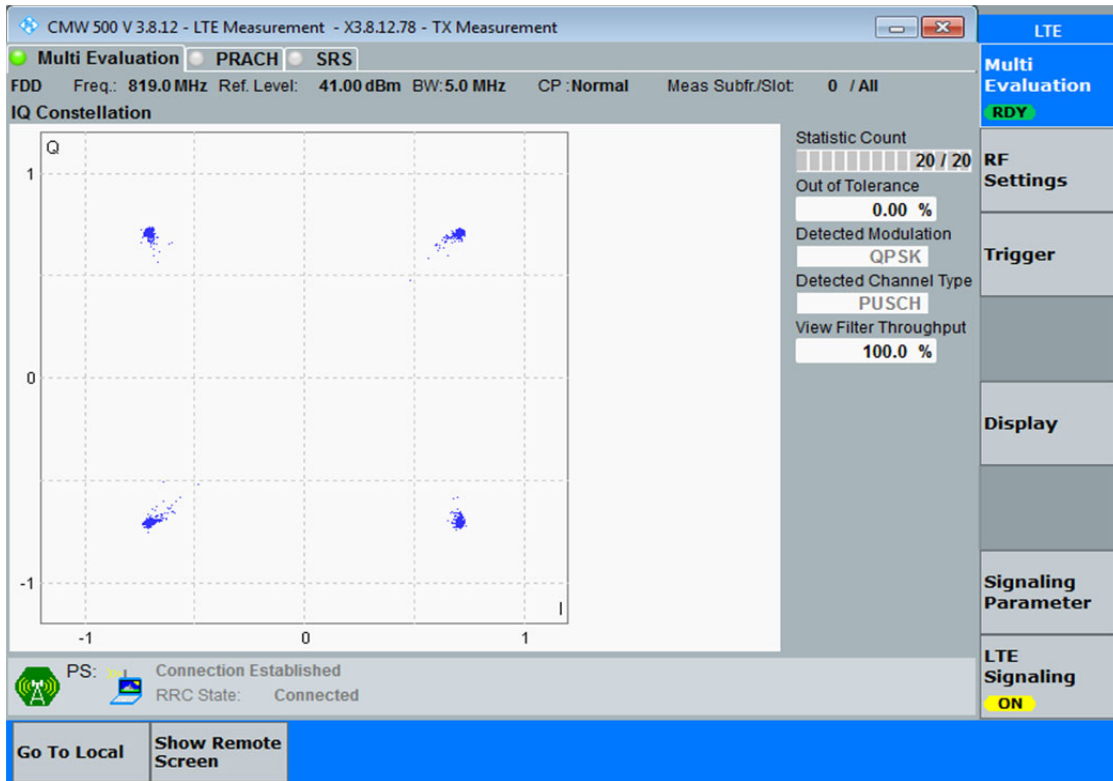
3 Appendix C: Modulation Characteristics

3.1 Test Plots

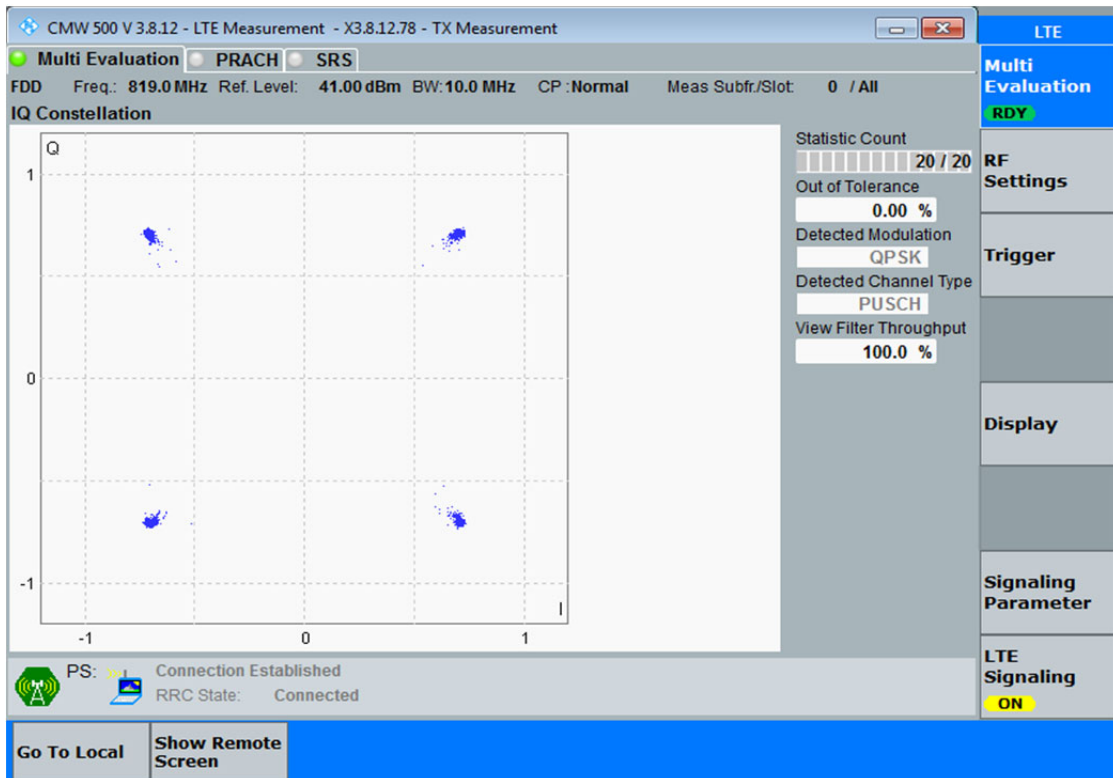
3.1.1 TM1_1.4MHz_MCH_RB6#0



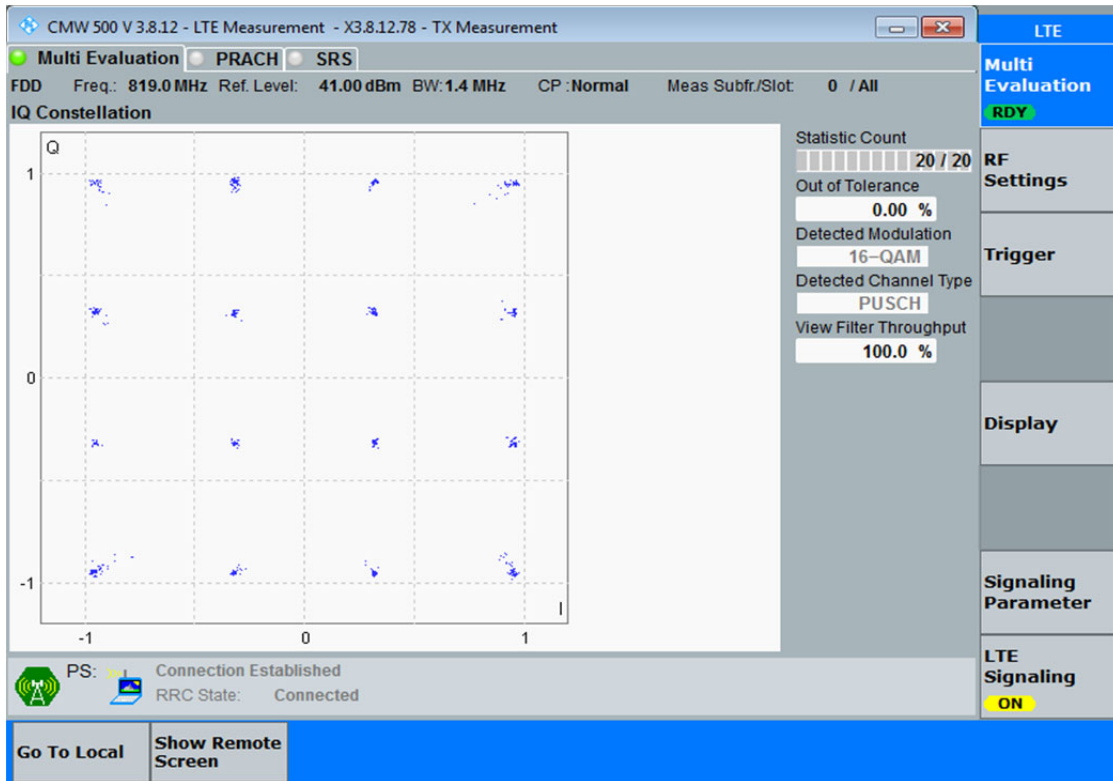
3.1.2 TM1_5MHz_MCH_RB25#0



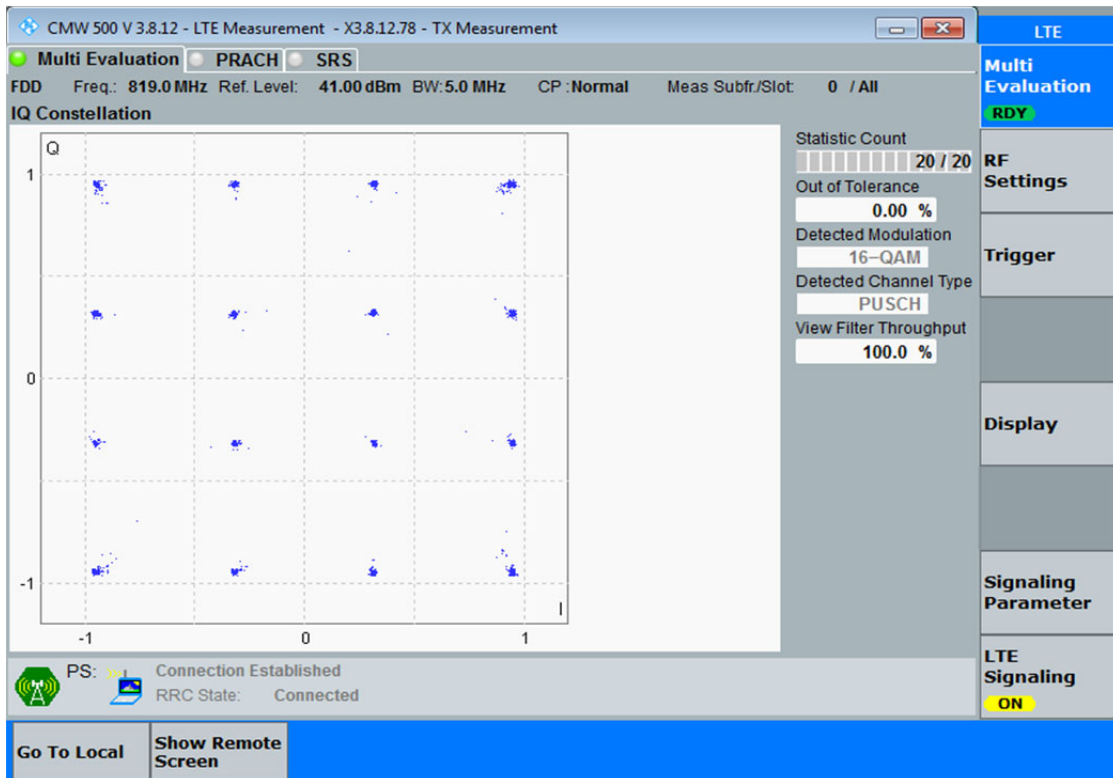
3.1.3 TM1_10MHz_MCH_RB50#0



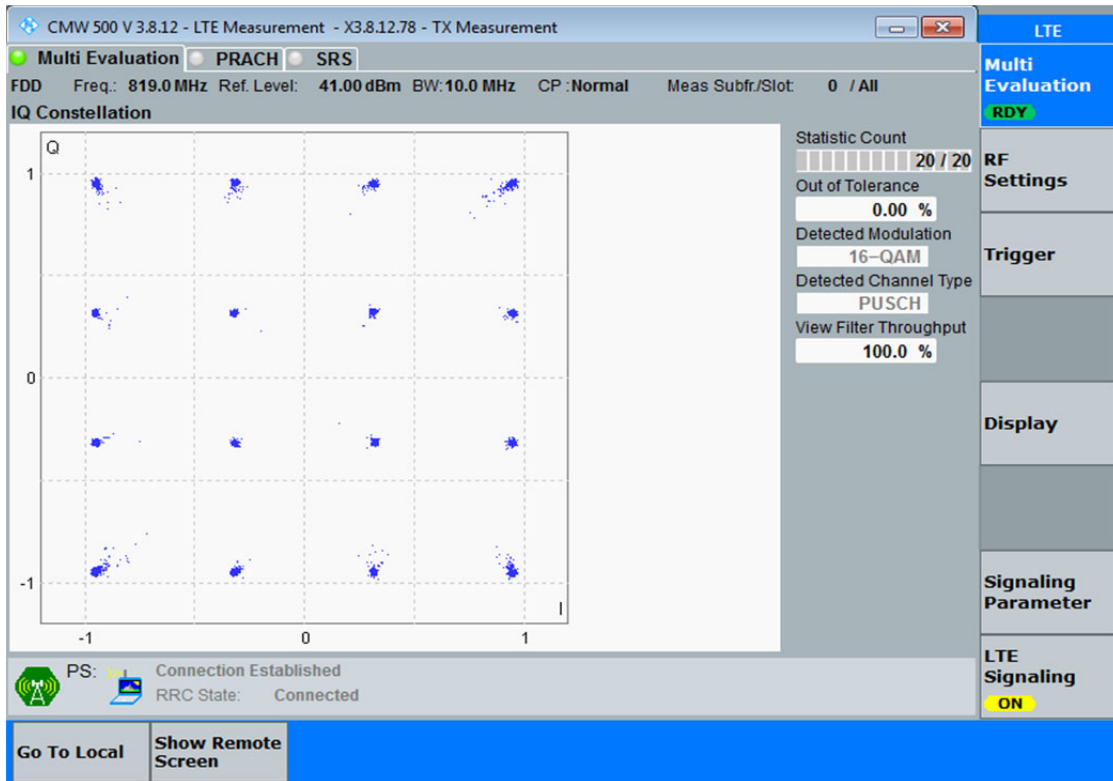
3.1.4 TM2_1.4MHz_MCH_RB6#0



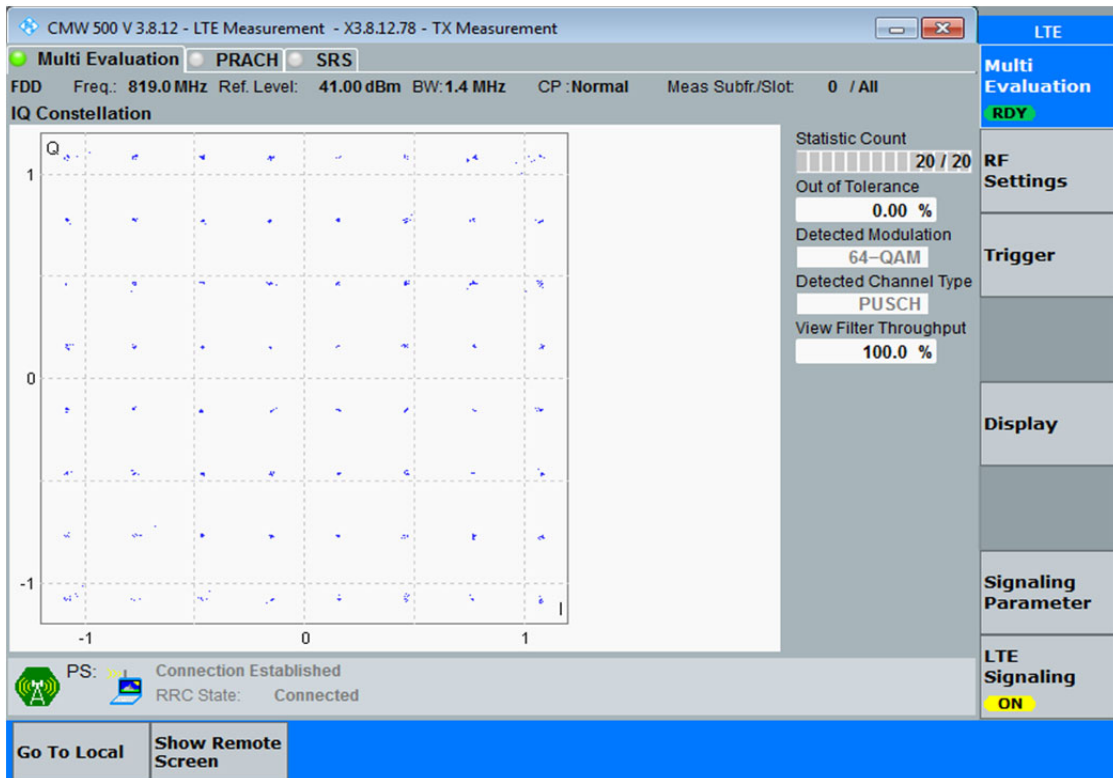
3.1.5 TM2_5MHz_MCH_RB25#0



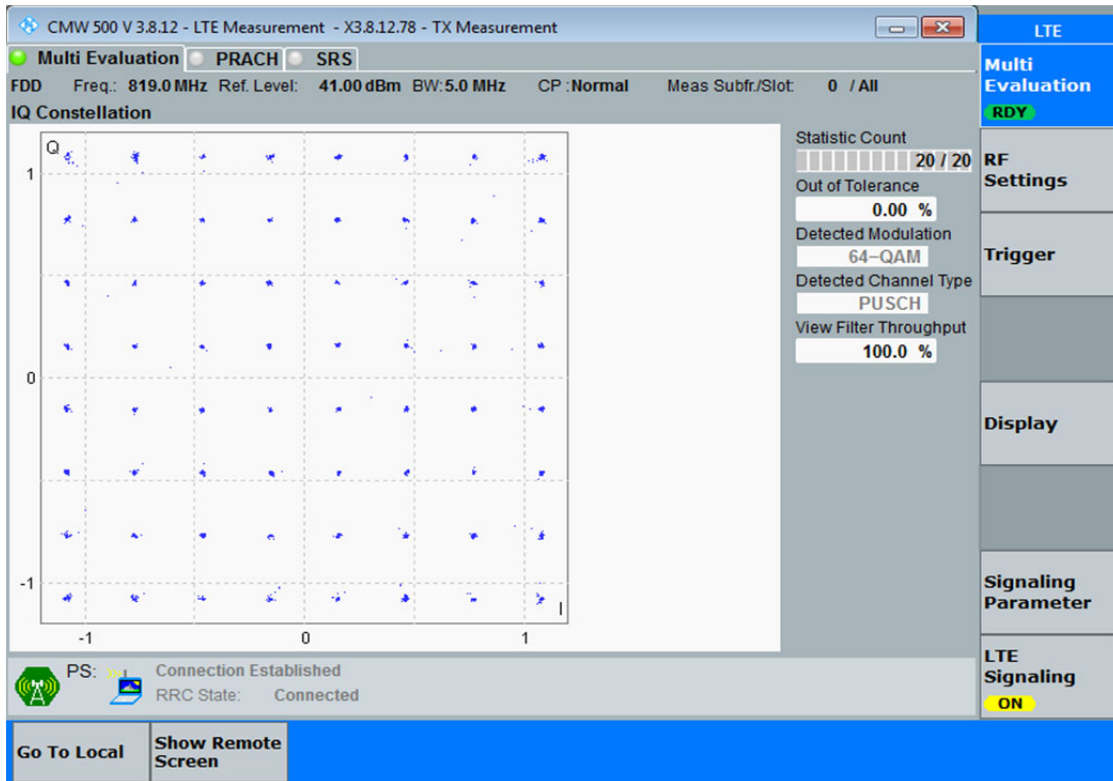
3.1.6 TM2_10MHz_MCH_RB50#0



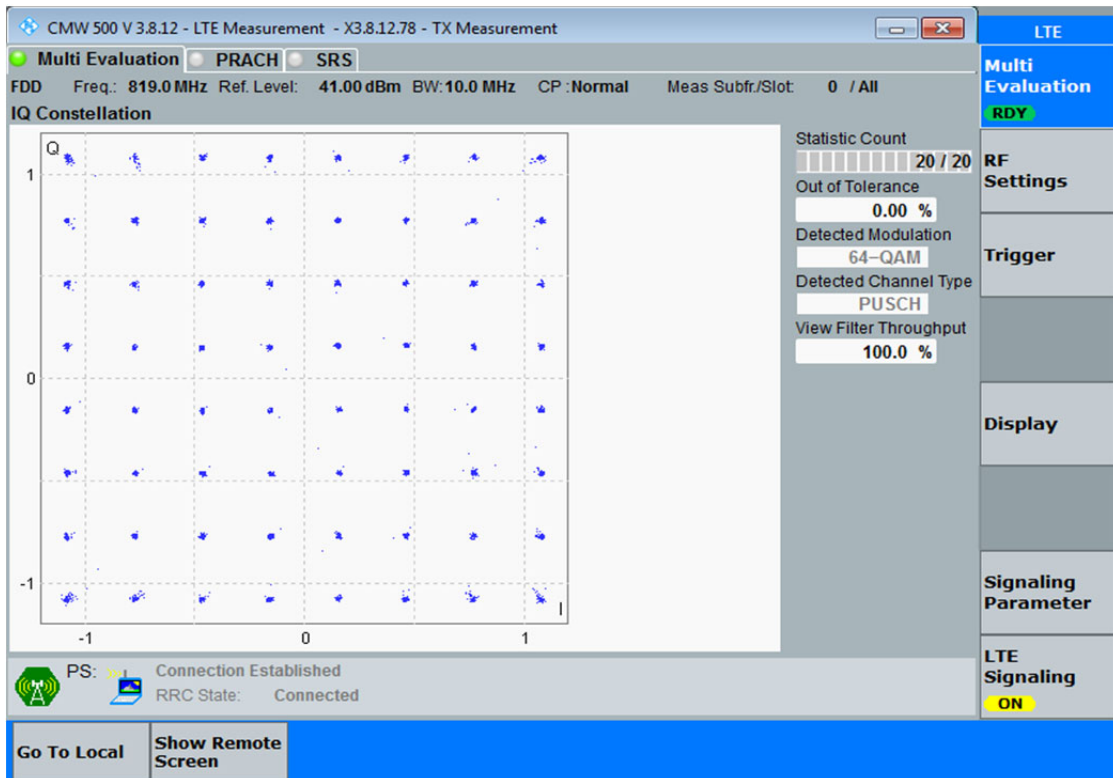
3.1.7 TM3_1.4MHz_MCH_RB6#0



3.1.8 TM3_5MHz_MCH_RB25#0



3.1.9 TM3_10MHz_MCH_RB50#0



4 Appendix D: Occupied Bandwidth

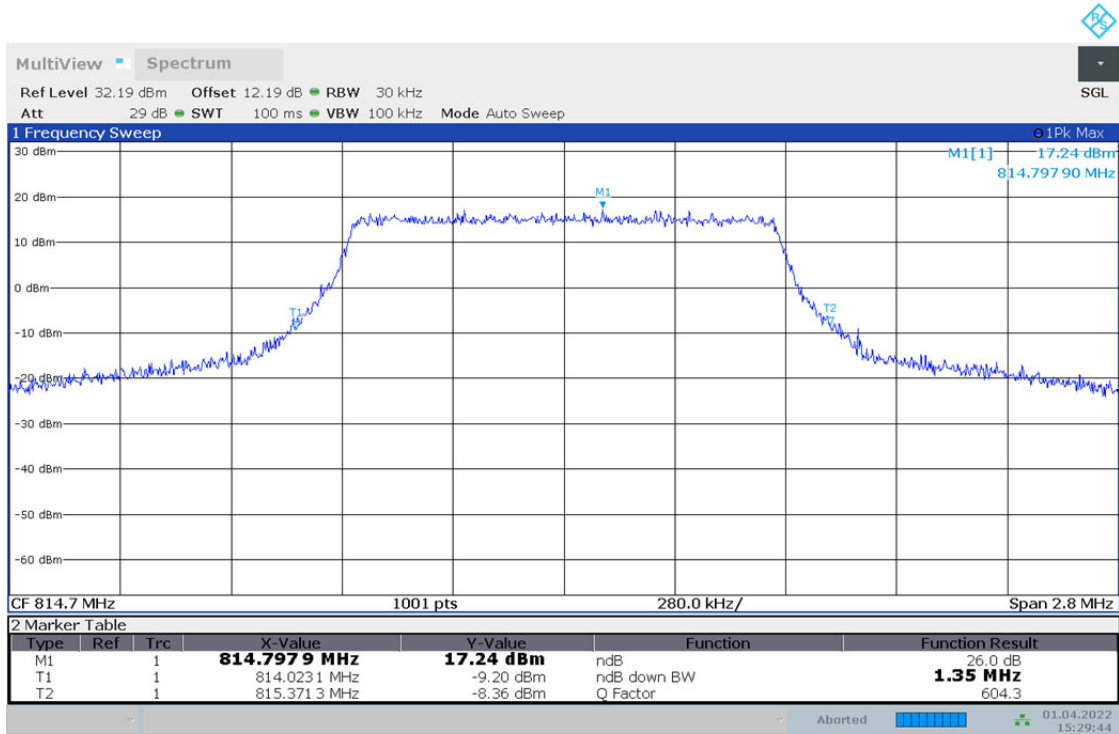
4.1 Test Results

| Occupied Bandwidth | | | | | | | |
|--------------------|----------------------|--------------|---------|------------|--------------------------|--------------------------|---------|
| Test Mode | Test Bandwidth [MHz] | Test Channel | Test RB | Modulation | Occupied Bandwidth [MHz] | Emission Bandwidth [MHz] | Verdict |
| TM1 | 1.4 | LCH | RB6#0 | QPSK | 1.11 | 1.35 | PASS |
| | | MCH | RB6#0 | QPSK | 1.11 | 1.38 | PASS |
| | | HCH | RB6#0 | QPSK | 1.10 | 1.35 | PASS |
| | 3 | LCH | RB15#0 | QPSK | 2.70 | 3.04 | PASS |
| | | MCH | RB15#0 | QPSK | 2.70 | 3.04 | PASS |
| | | HCH | RB15#0 | QPSK | 2.71 | 3.04 | PASS |
| | 5 | LCH | RB25#0 | QPSK | 4.52 | 5.16 | PASS |
| | | MCH | RB25#0 | QPSK | 4.54 | 5.14 | PASS |
| | | HCH | RB25#0 | QPSK | 4.53 | 5.13 | PASS |
| | 10 | LCH | RB50#0 | QPSK | 8.98 | 10.09 | PASS |
| | | MCH | RB50#0 | QPSK | 8.98 | 10.01 | PASS |
| | | HCH | RB50#0 | QPSK | 8.99 | 9.99 | PASS |
| TM2 | 1.4 | LCH | RB6#0 | 16QAM | 1.11 | 1.37 | PASS |
| | | MCH | RB6#0 | 16QAM | 1.11 | 1.39 | PASS |
| | | HCH | RB6#0 | 16QAM | 1.11 | 1.37 | PASS |
| | 3 | LCH | RB15#0 | 16QAM | 2.71 | 3.05 | PASS |
| | | MCH | RB15#0 | 16QAM | 2.71 | 3.04 | PASS |
| | | HCH | RB15#0 | 16QAM | 2.71 | 3.04 | PASS |
| | 5 | LCH | RB25#0 | 16QAM | 4.53 | 5.17 | PASS |
| | | MCH | RB25#0 | 16QAM | 4.52 | 5.12 | PASS |
| | | HCH | RB25#0 | 16QAM | 4.52 | 5.17 | PASS |
| | 10 | LCH | RB50#0 | 16QAM | 9.02 | 10.03 | PASS |
| | | MCH | RB50#0 | 16QAM | 9.00 | 10.09 | PASS |
| | | HCH | RB50#0 | 16QAM | 9.00 | 10.03 | PASS |

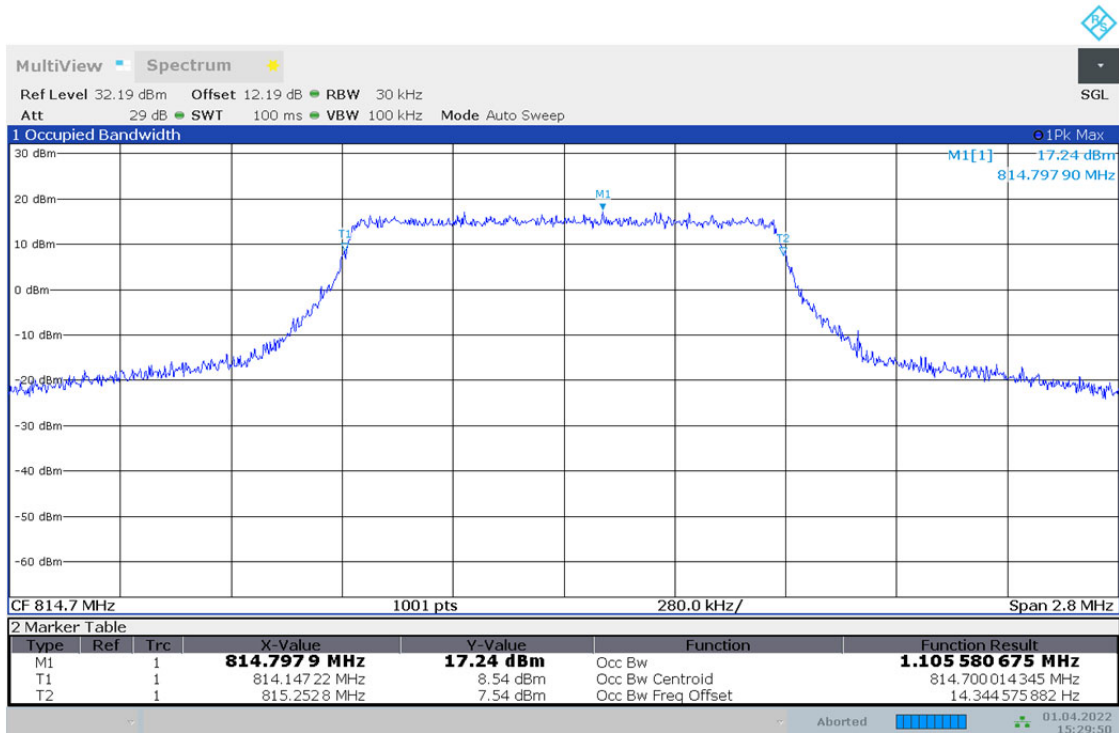
| Occupied Bandwidth | | | | | | | |
|--------------------|----------------------|--------------|---------|------------|--------------------------|--------------------------|---------|
| Test Mode | Test Bandwidth [MHz] | Test Channel | Test RB | Modulation | Occupied Bandwidth [MHz] | Emission Bandwidth [MHz] | Verdict |
| TM3 | 1.4 | LCH | RB6#0 | 64QAM | 1.12 | 1.36 | PASS |
| | | MCH | RB6#0 | 64QAM | 1.10 | 1.34 | PASS |
| | | HCH | RB6#0 | 64QAM | 1.11 | 1.35 | PASS |
| | 3 | LCH | RB15#0 | 64QAM | 2.71 | 3.06 | PASS |
| | | MCH | RB15#0 | 64QAM | 2.70 | 3.06 | PASS |
| | | HCH | RB15#0 | 64QAM | 2.70 | 3.04 | PASS |
| | 5 | LCH | RB25#0 | 64QAM | 4.53 | 5.12 | PASS |
| | | MCH | RB25#0 | 64QAM | 4.53 | 5.16 | PASS |
| | | HCH | RB25#0 | 64QAM | 4.52 | 5.12 | PASS |
| | 10 | LCH | RB50#0 | 64QAM | 8.99 | 10.01 | PASS |
| | | MCH | RB50#0 | 64QAM | 8.99 | 10.07 | PASS |
| | | HCH | RB50#0 | 64QAM | 8.99 | 10.01 | PASS |

4.2 Test Plots

4.2.1 TM1_1.4MHz_LCH_RB6#0

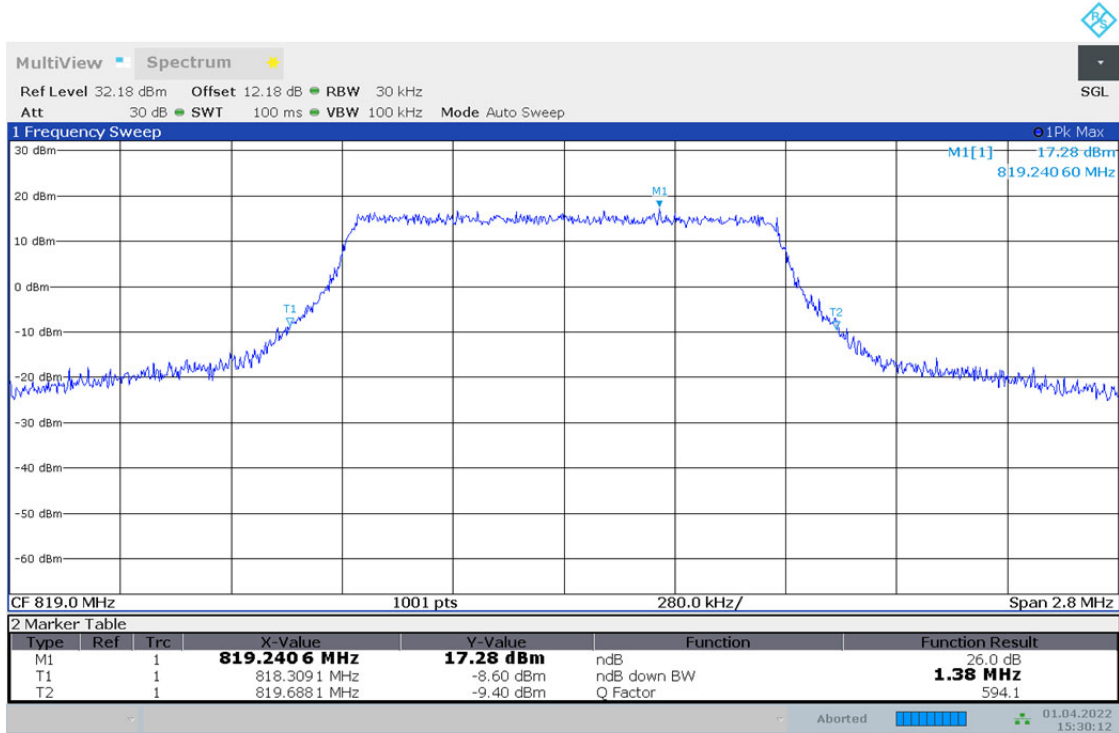


15:29:45 01.04.2022

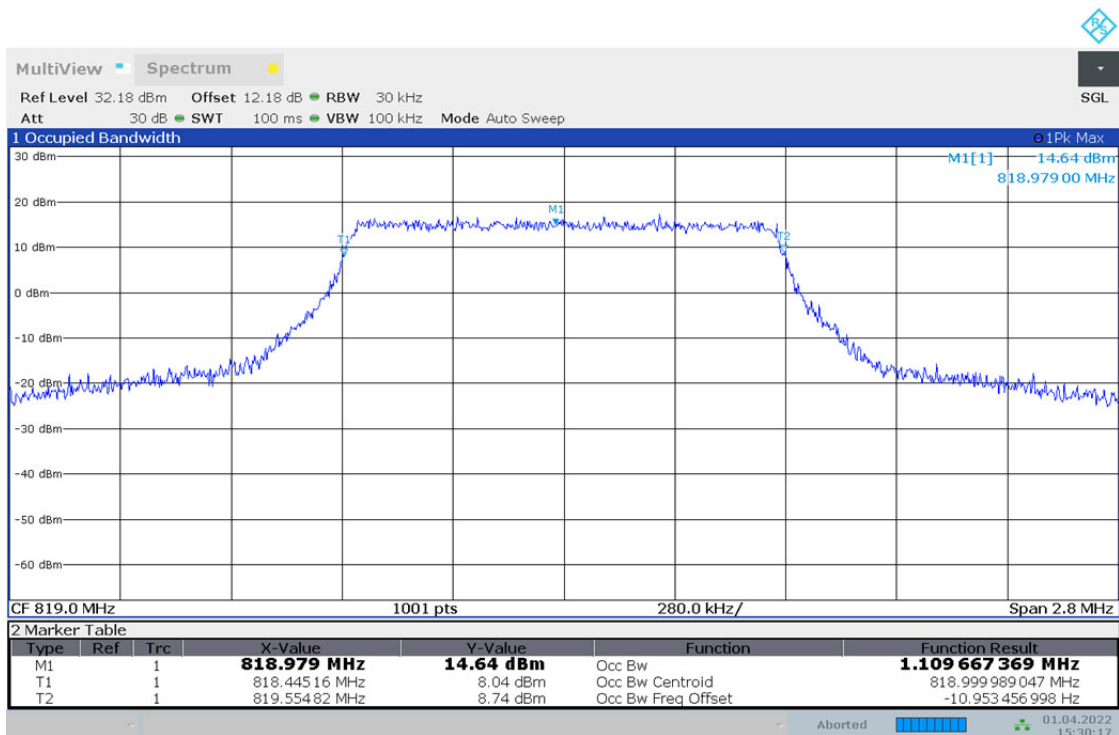


15:29:50 01.04.2022

4.2.2 TM1_1.4MHz_MCH_RB6#0

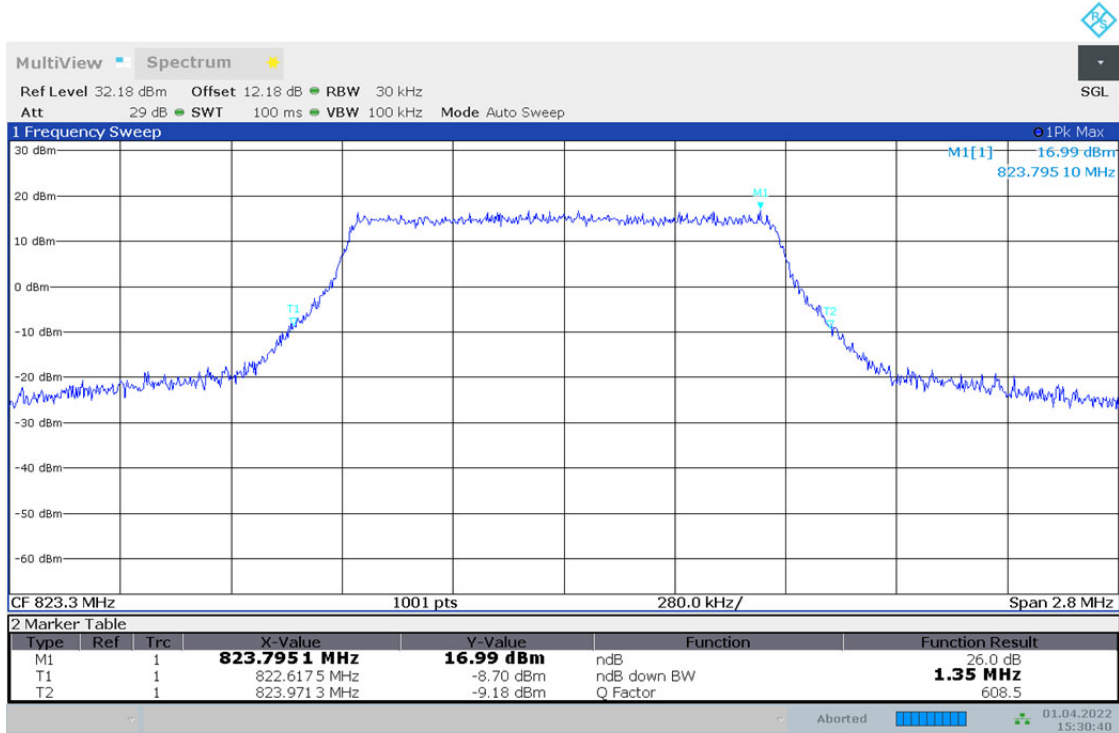


15:30:12 01.04.2022

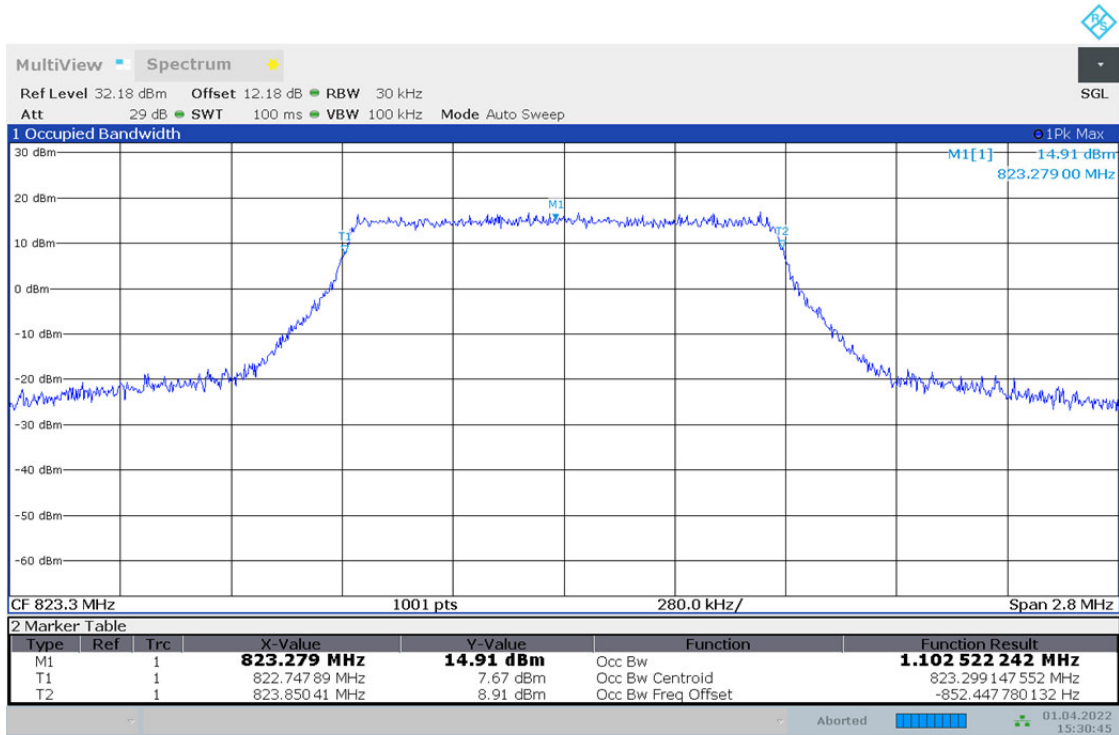


15:30:18 01.04.2022

4.2.3 TM1_1.4MHz_HCH_RB6#0

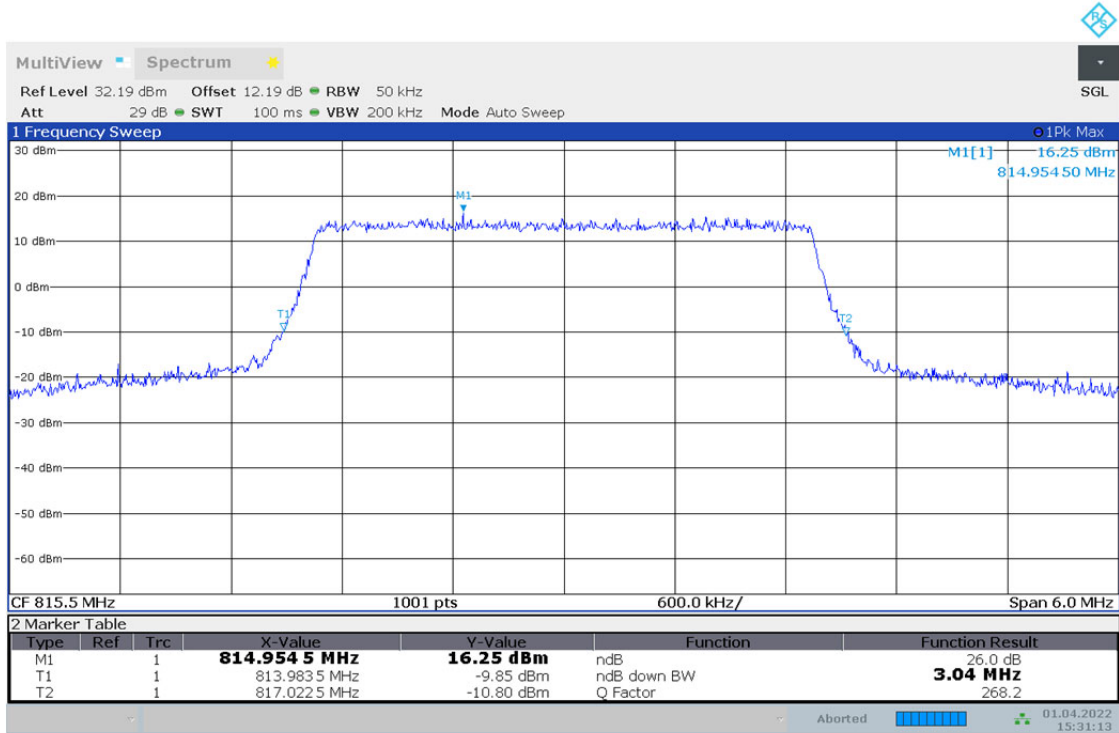


15:30:40 01.04.2022

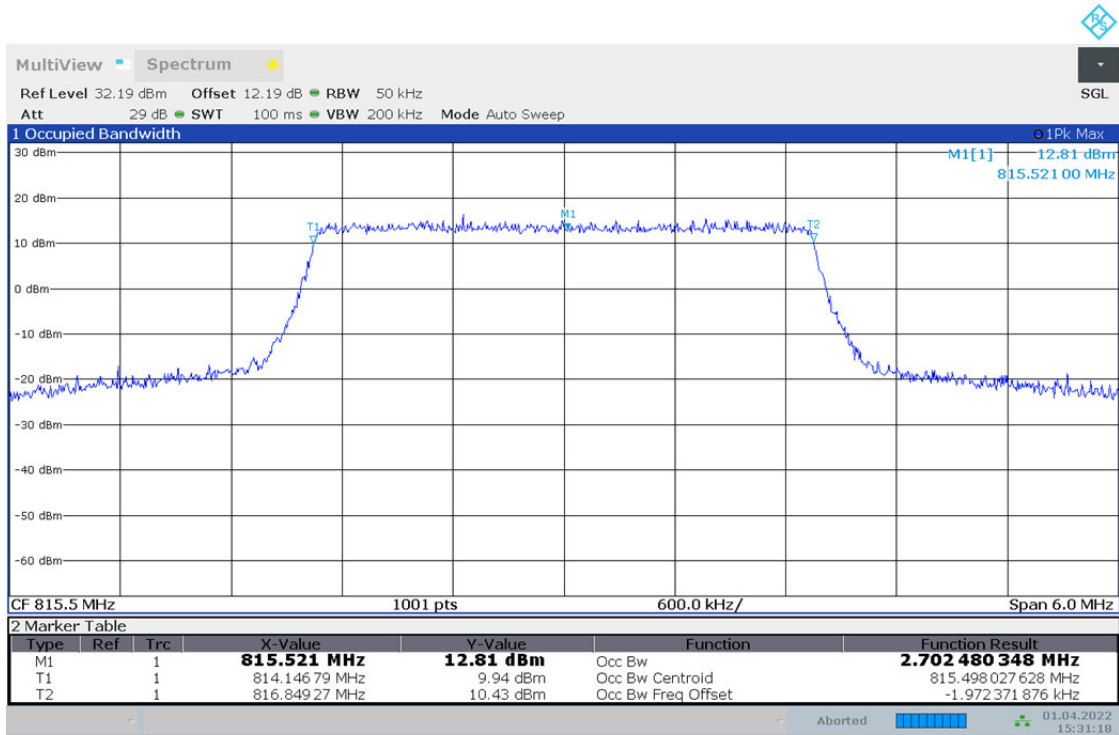


15:30:45 01.04.2022

4.2.4 TM1_3MHz_LCH_RB15#0

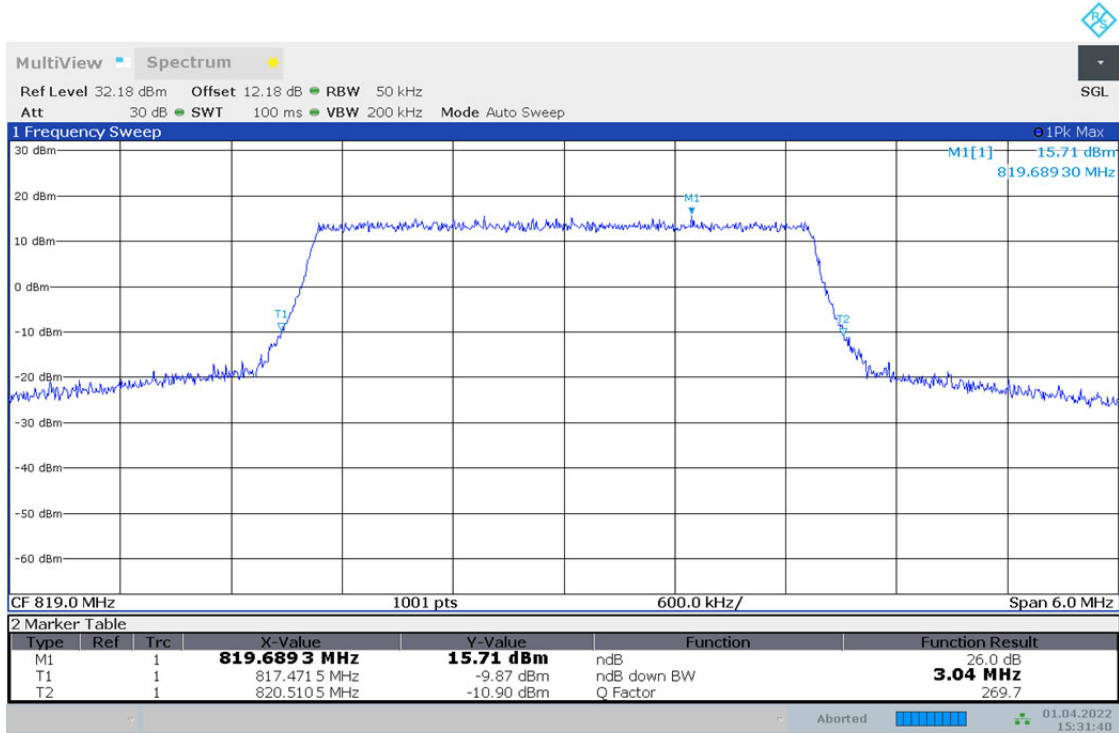


15:31:13 01.04.2022

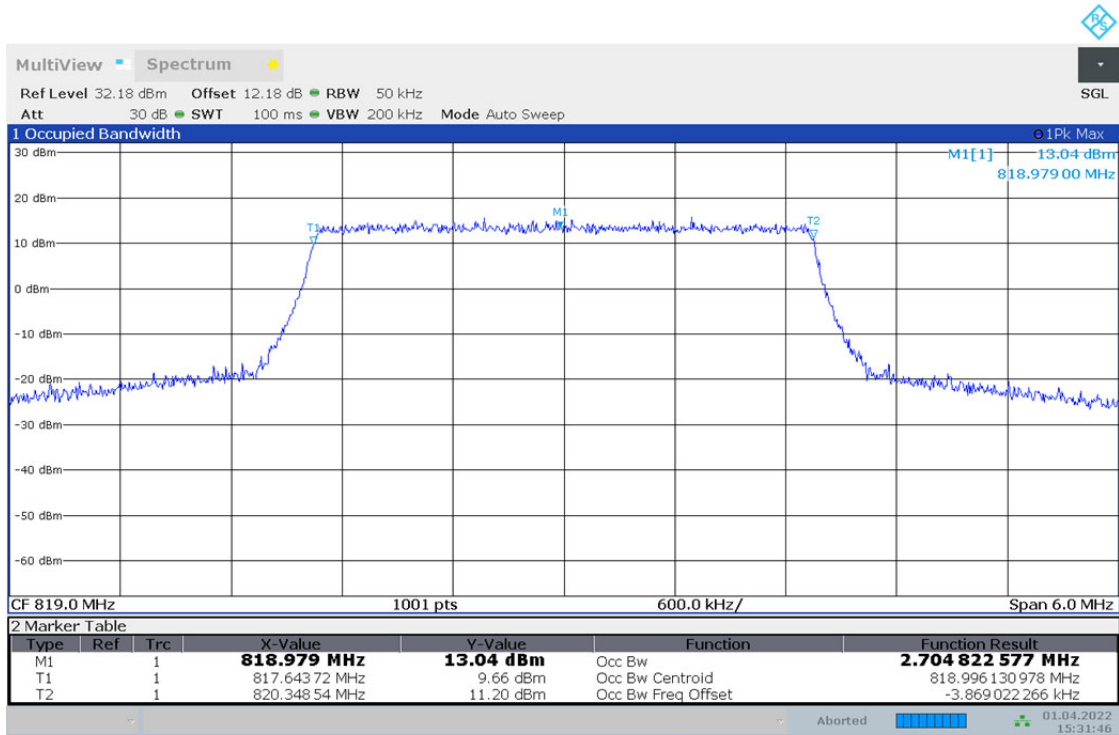


15:31:19 01.04.2022

4.2.5 TM1_3MHz_MCH_RB15#0

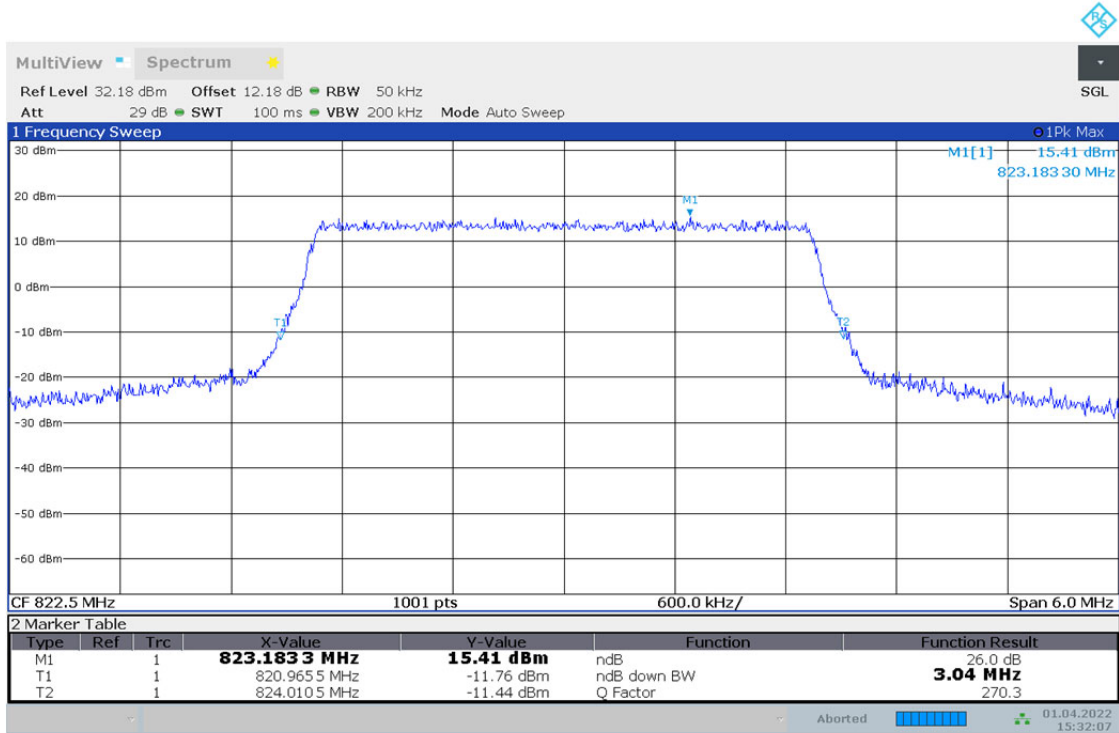


15:31:40 01.04.2022

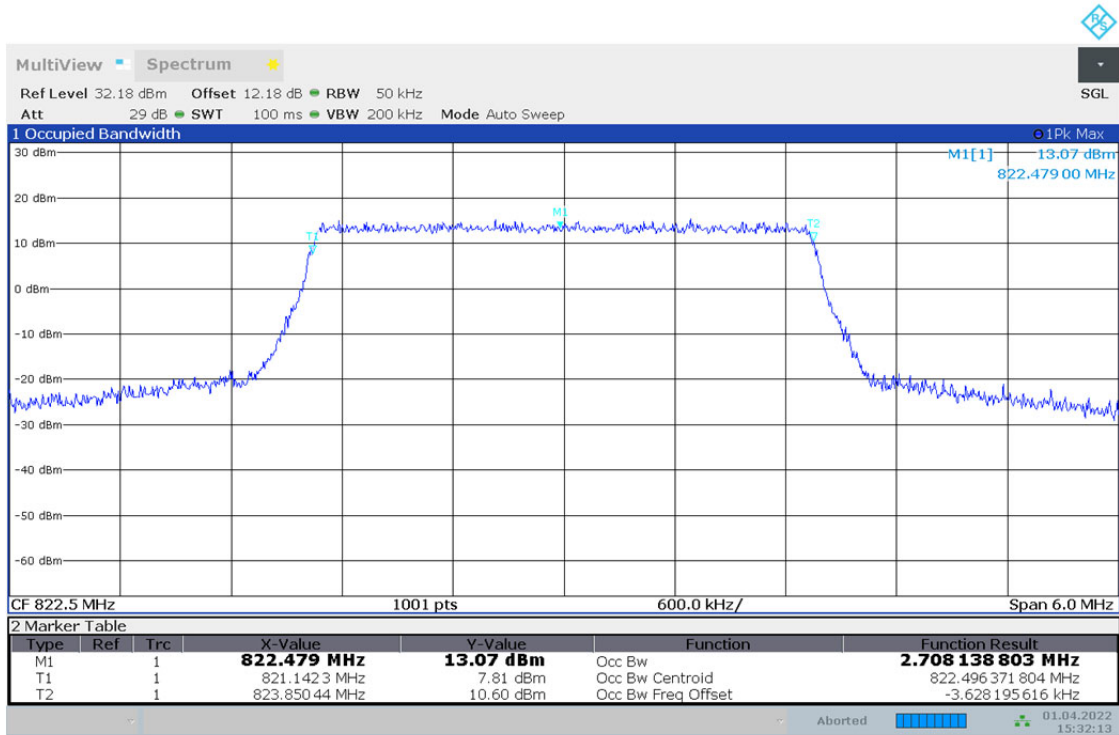


15:31:46 01.04.2022

4.2.6 TM1_3MHz_HCH_RB15#0

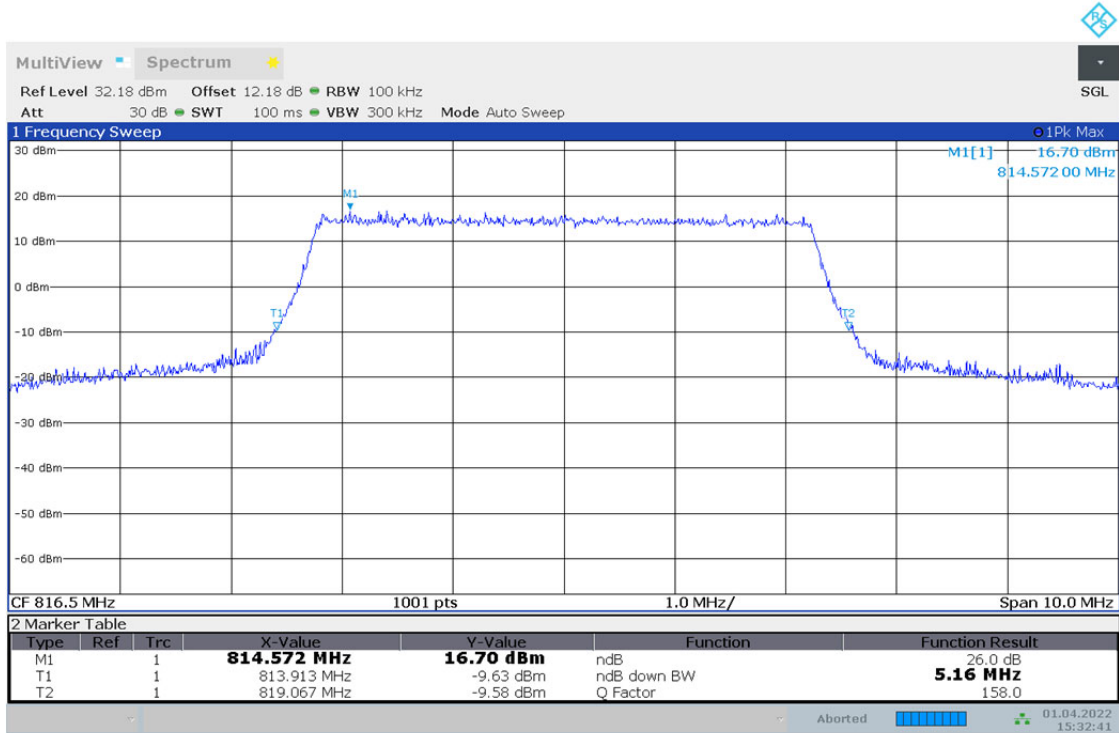


15:32:08 01.04.2022

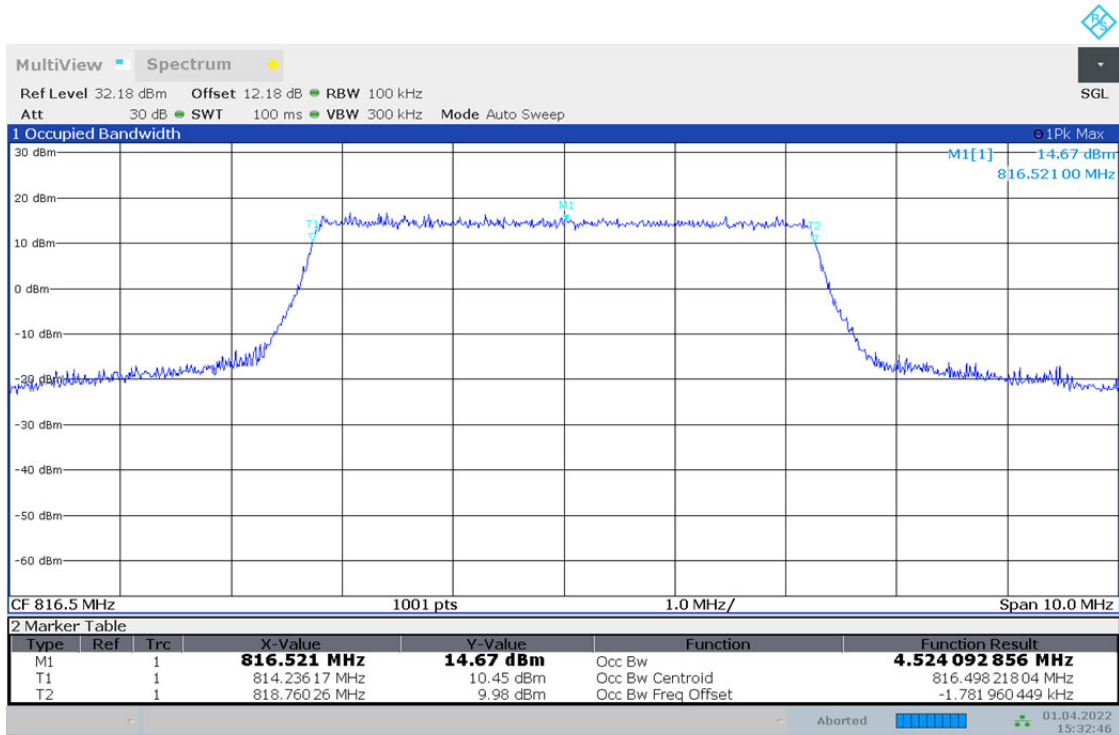


15:32:13 01.04.2022

4.2.7 TM1_5MHz_LCH_RB25#0

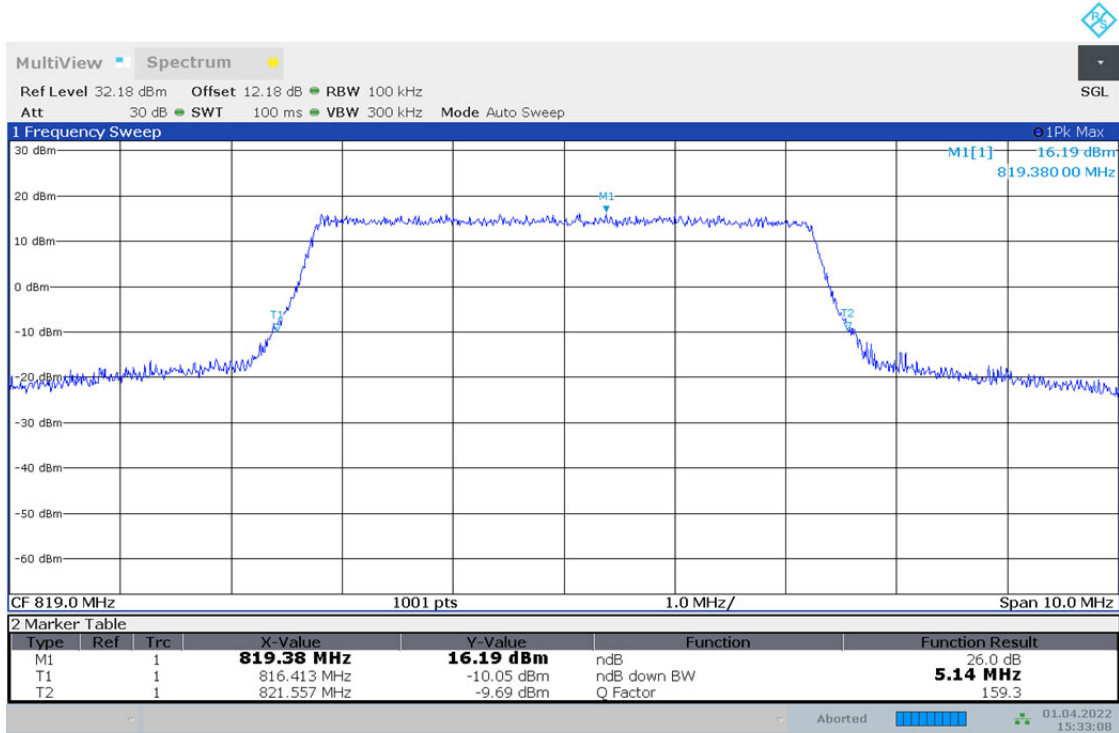


15:32:41 01.04.2022

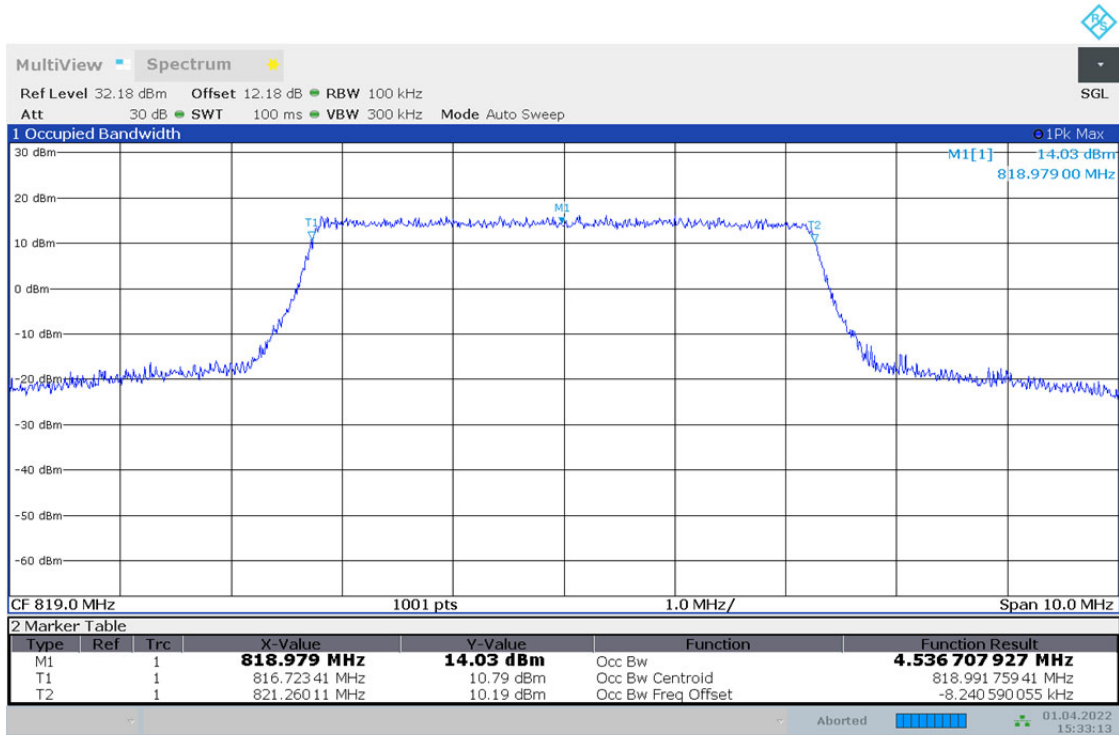


15:32:46 01.04.2022

4.2.8 TM1_5MHz_MCH_RB25#0

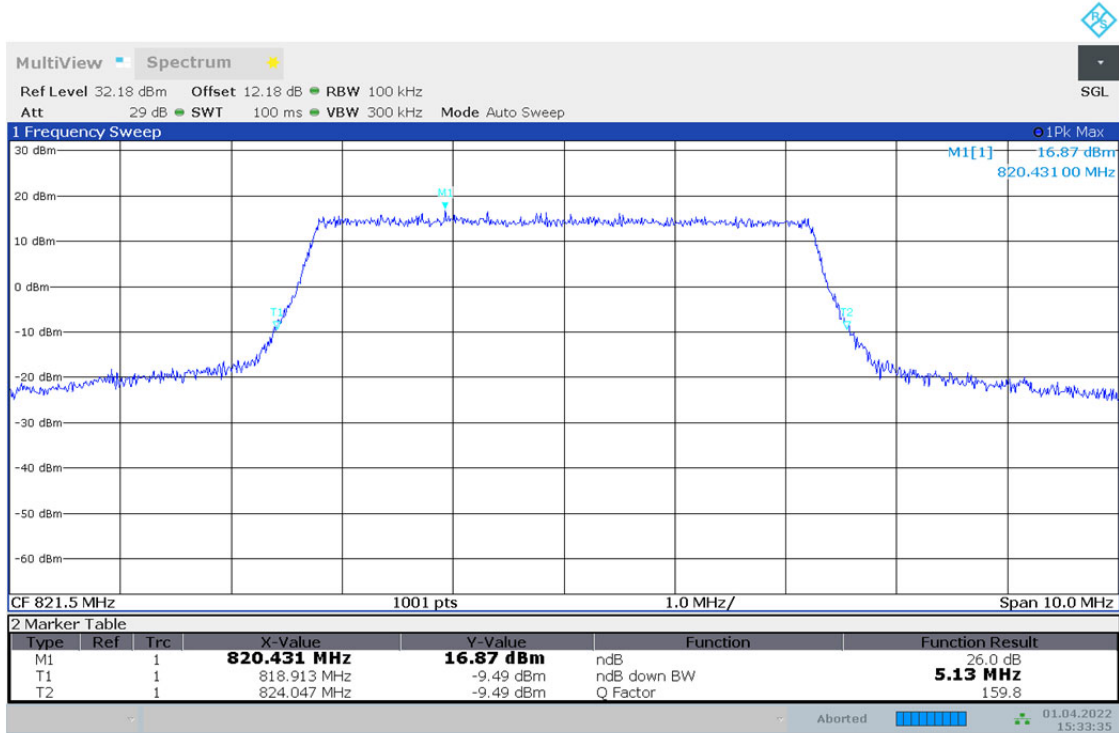


15:33:08 01.04.2022

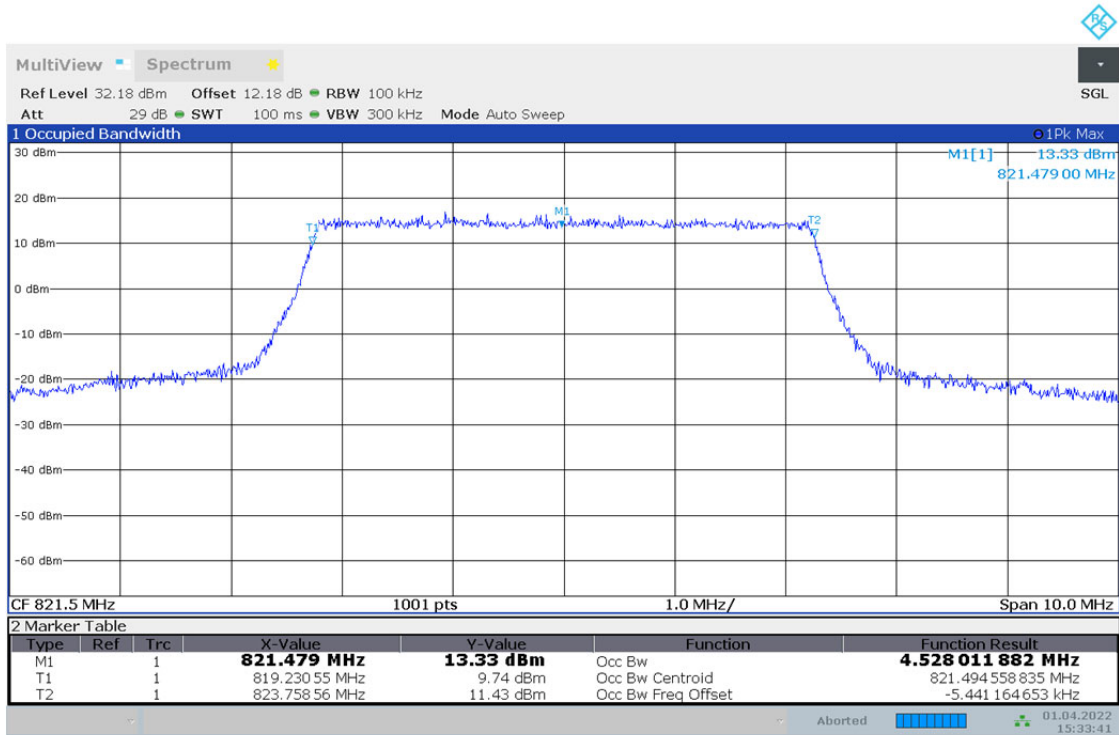


15:33:14 01.04.2022

4.2.9 TM1_5MHz_HCH_RB25#0

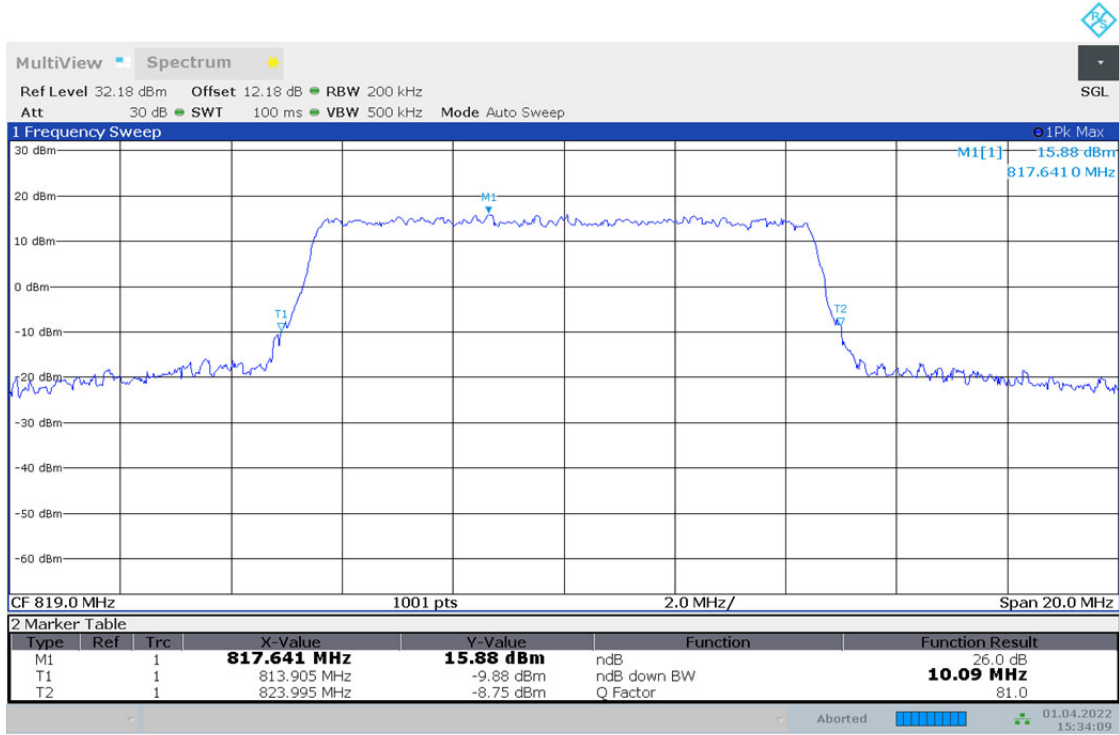


15:33:36 01.04.2022

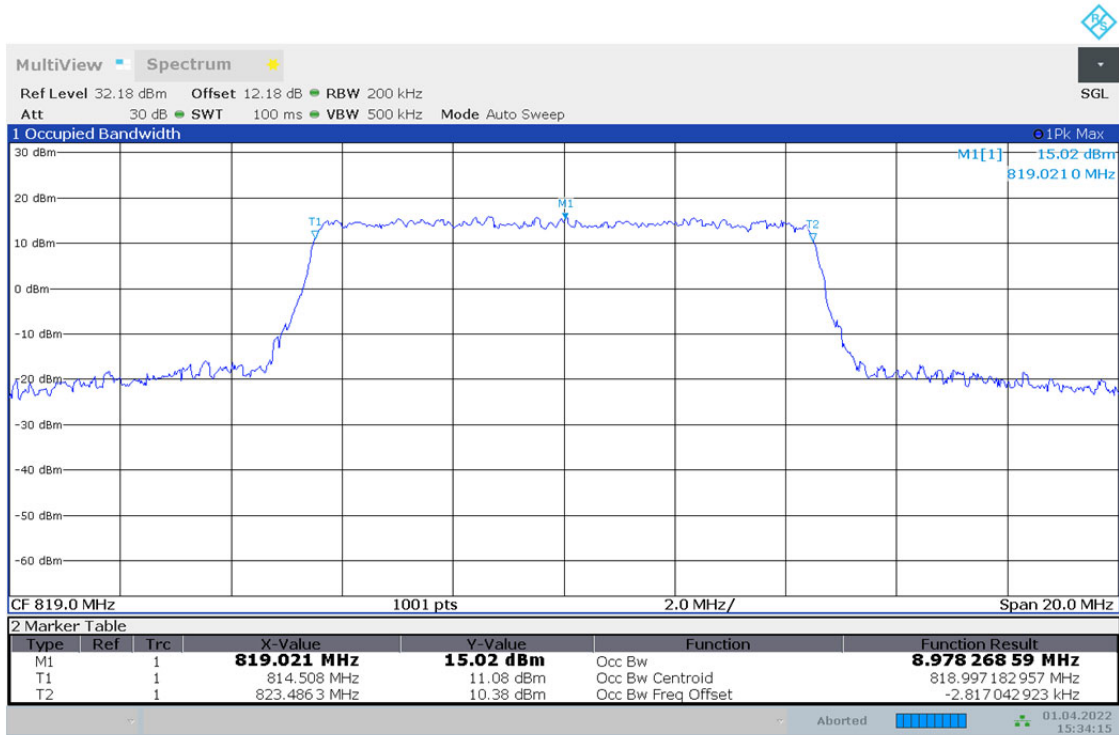


15:33:41 01.04.2022

4.2.10 TM1_10MHz_LCH_RB50#0

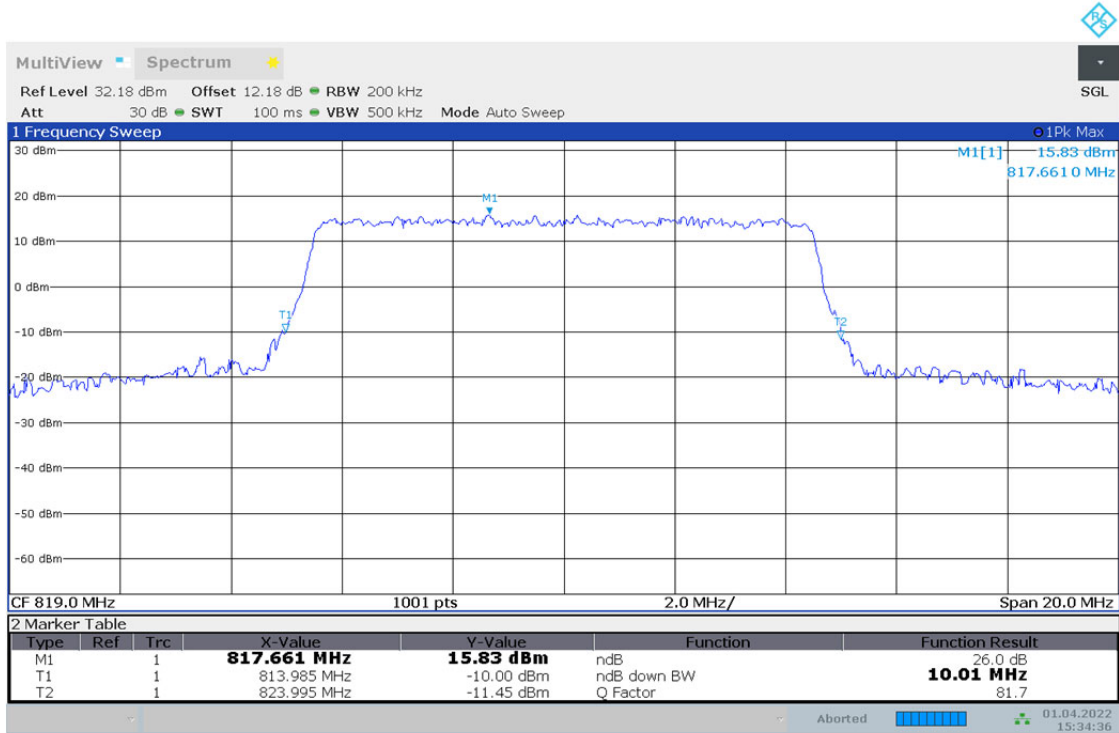


15:34:10 01.04.2022

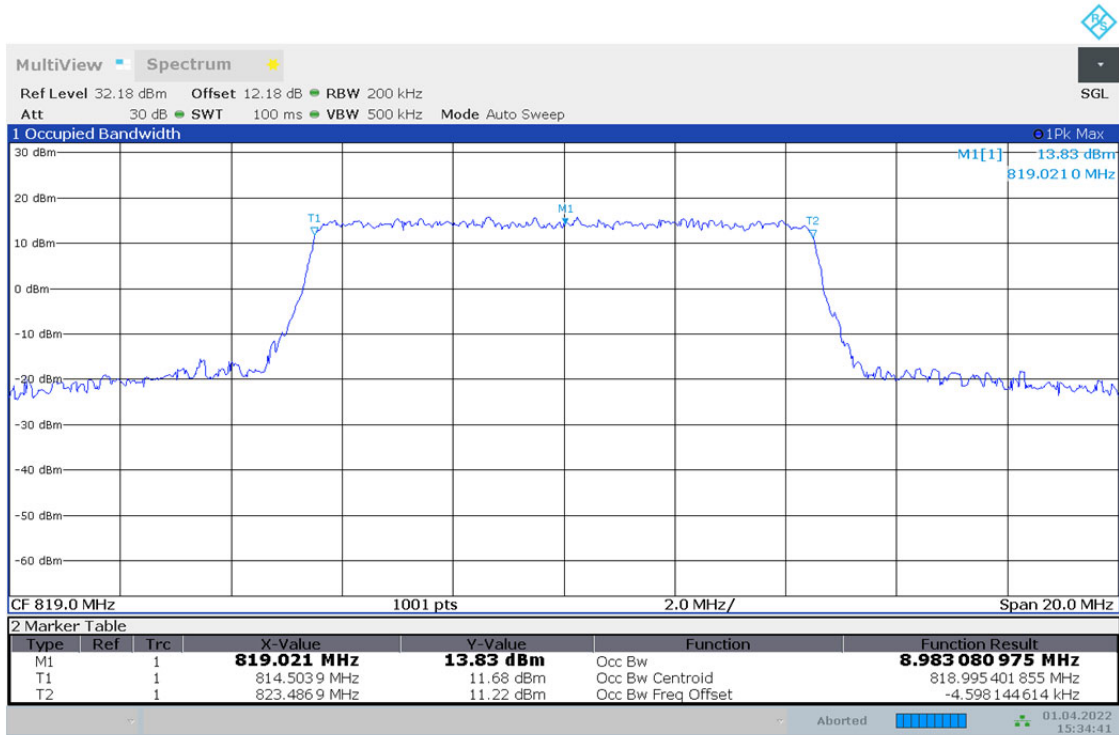


15:34:15 01.04.2022

4.2.11 TM1_10MHz_MCH_RB50#0

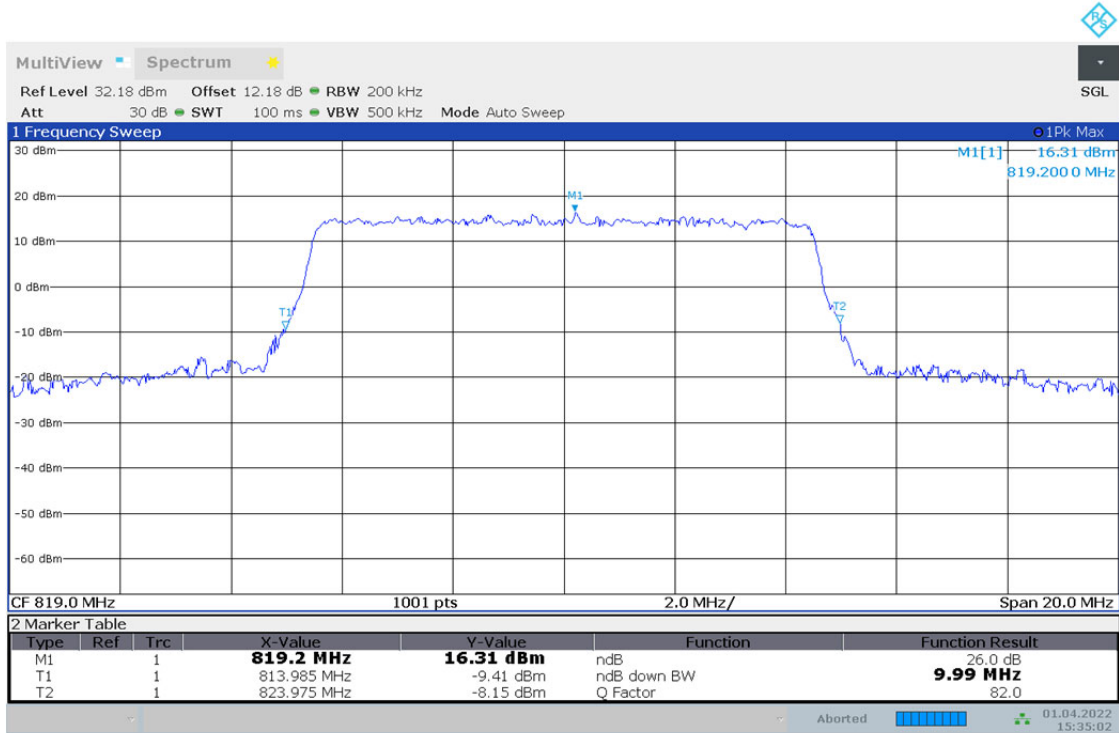


15:34:36 01.04.2022

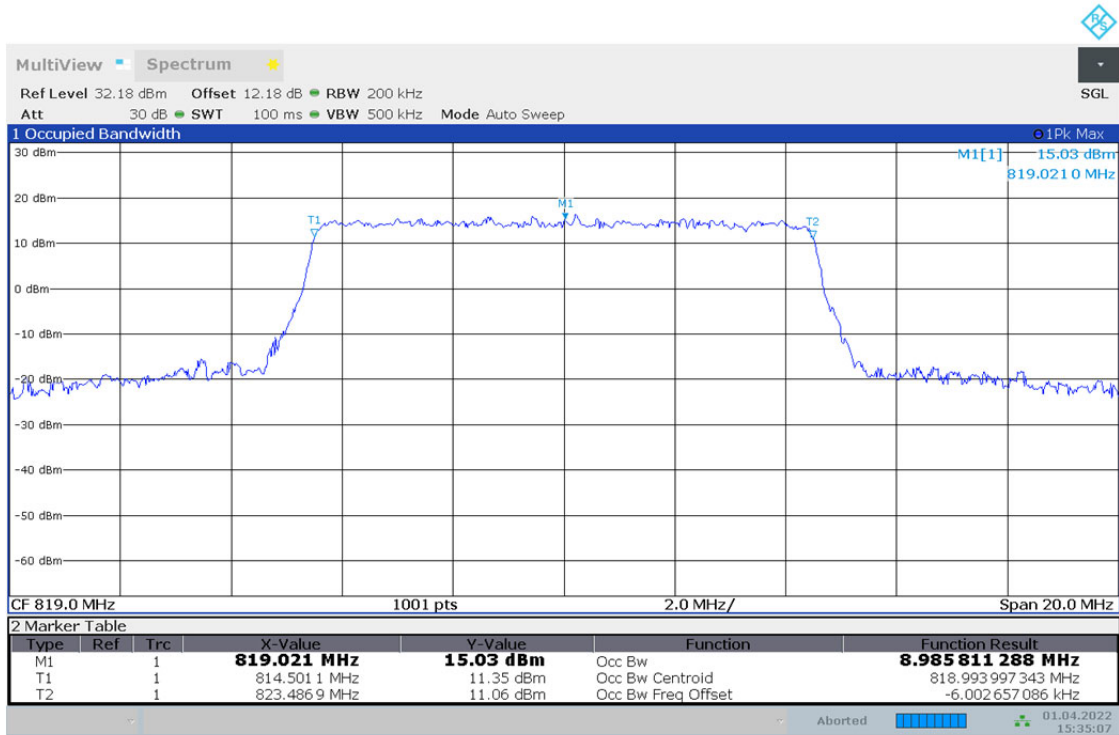


15:34:41 01.04.2022

4.2.12 TM1_10MHz_HCH_RB50#0

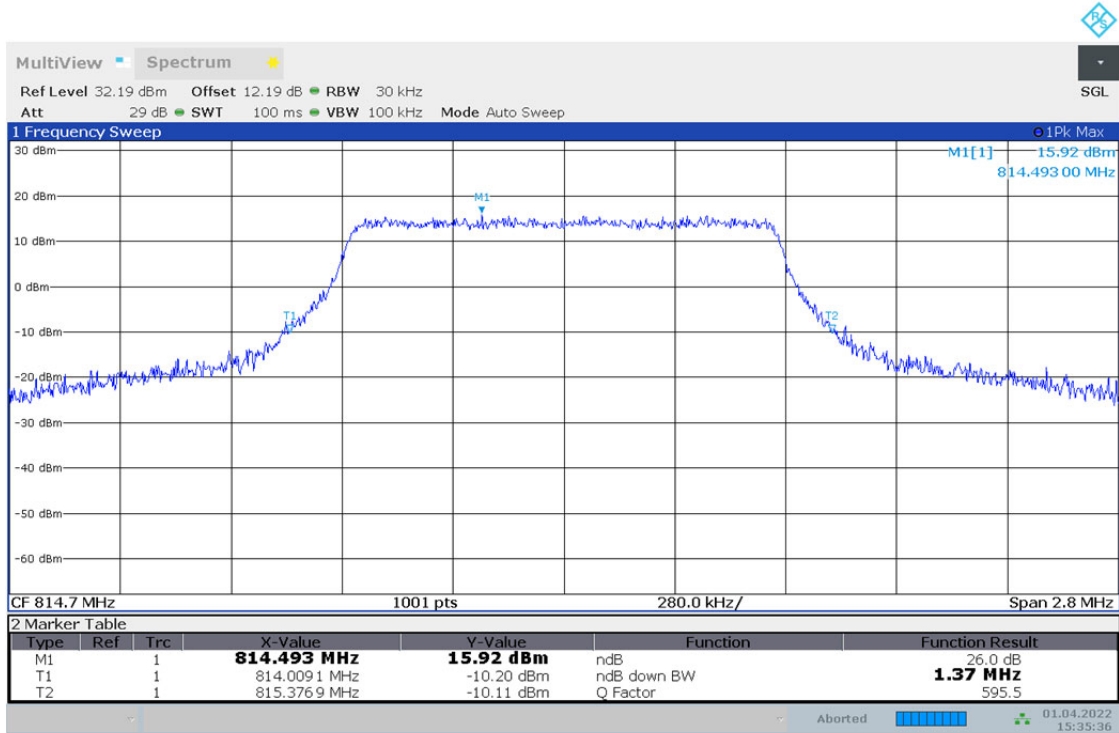


15:35:02 01.04.2022

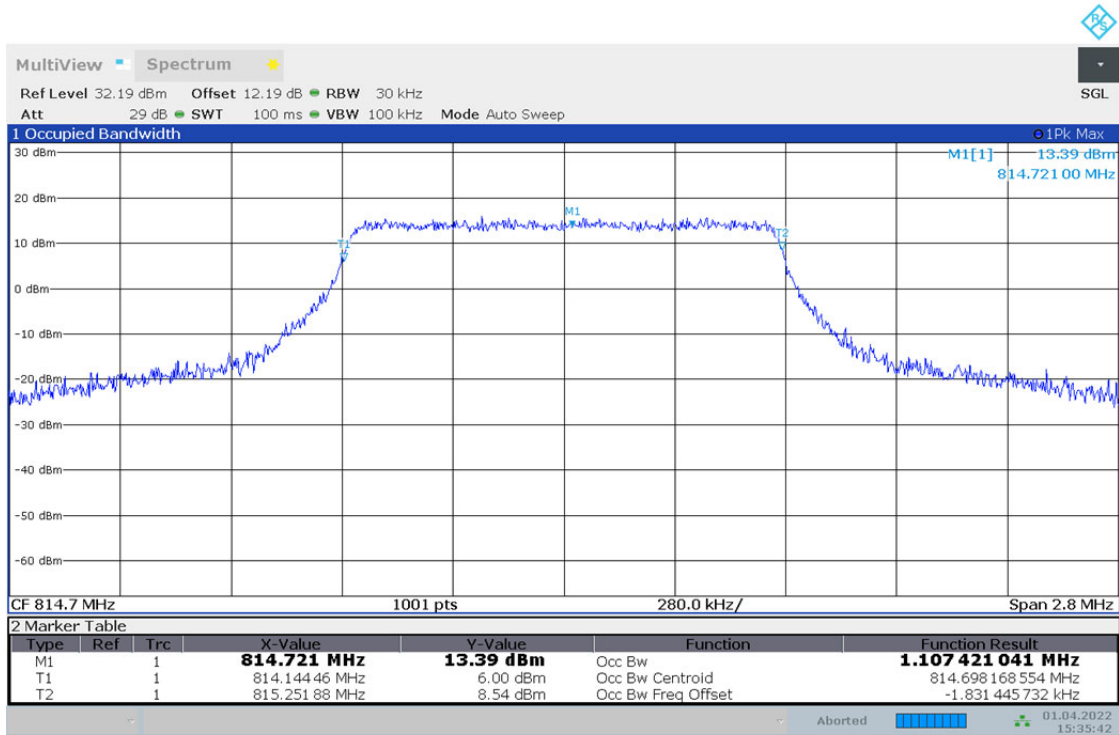


15:35:08 01.04.2022

4.2.13 TM2_1.4MHz_LCH_RB6#0

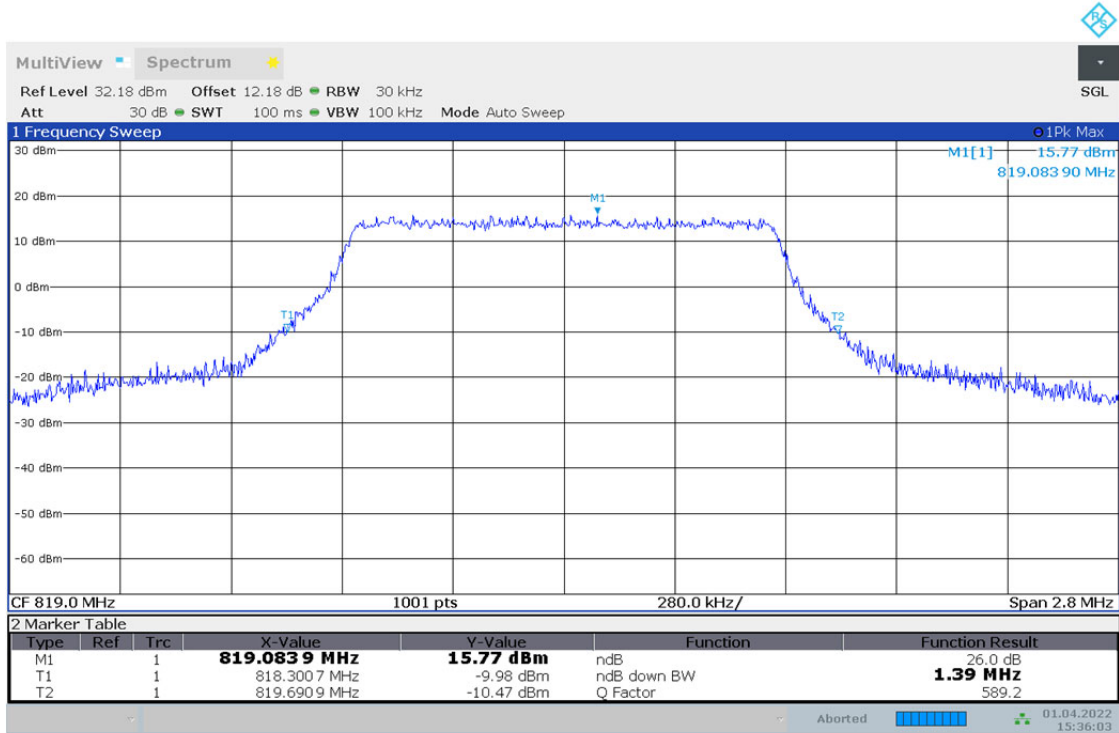


15:35:37 01.04.2022

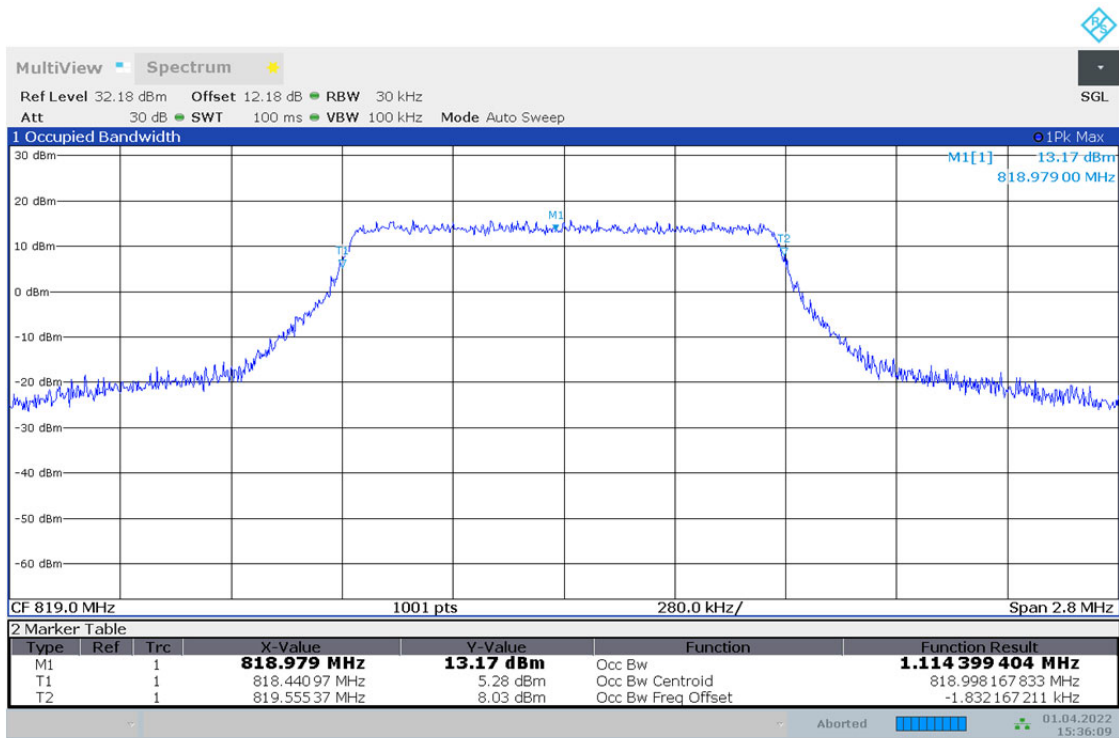


15:35:42 01.04.2022

4.2.14 TM2_1.4MHz_MCH_RB6#0

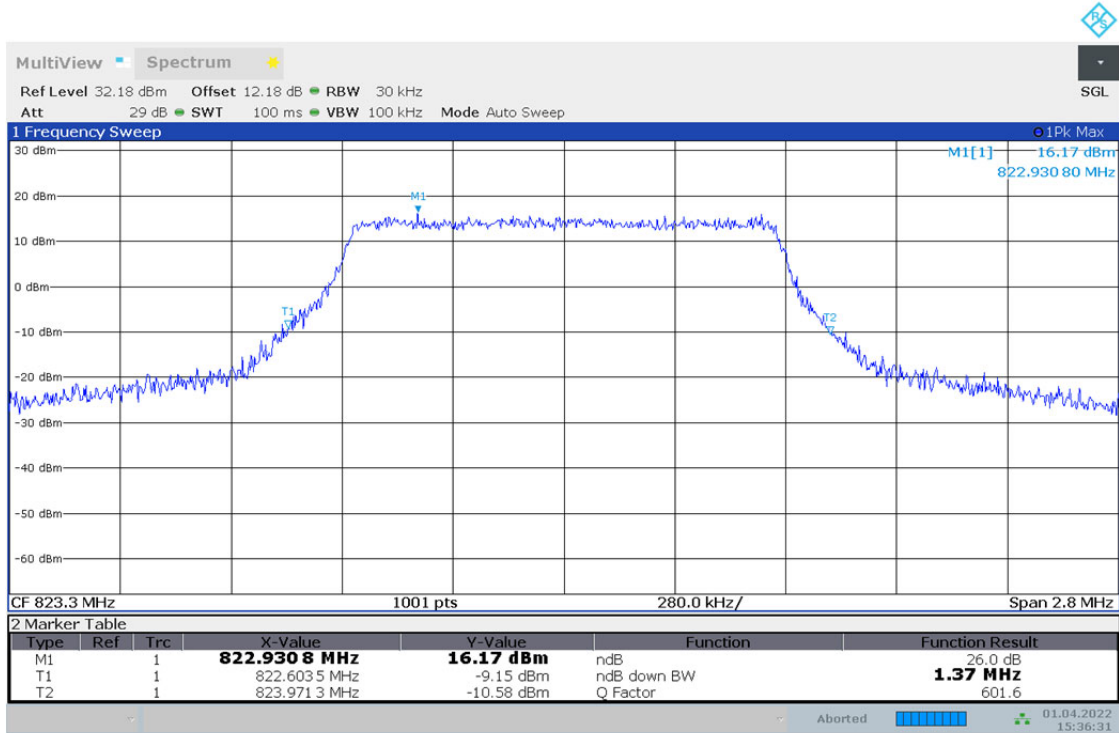


15:36:04 01.04.2022

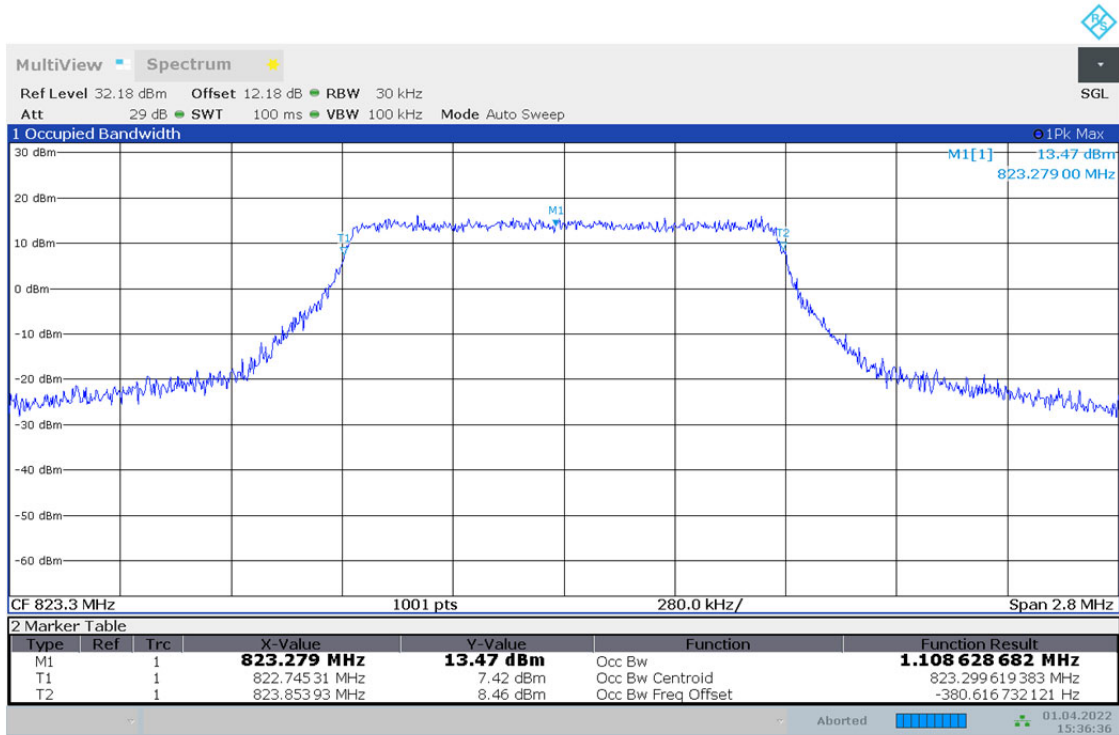


15:36:09 01.04.2022

4.2.15 TM2_1.4MHz_HCH_RB6#0

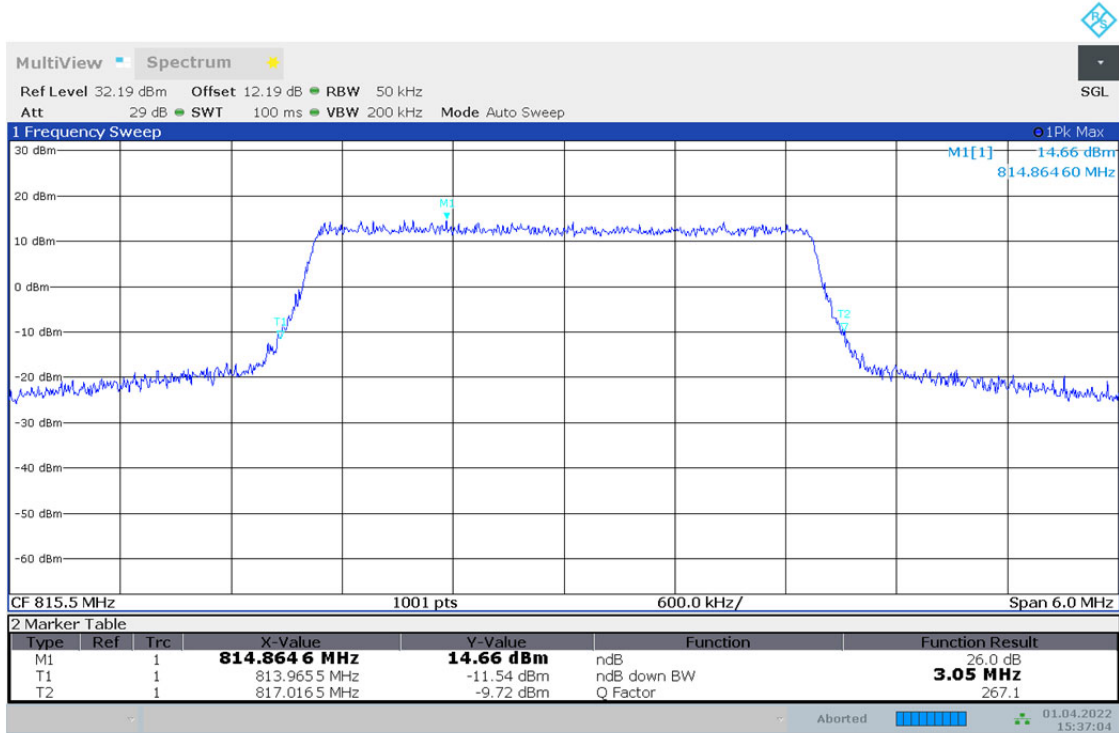


15:36:31 01.04.2022

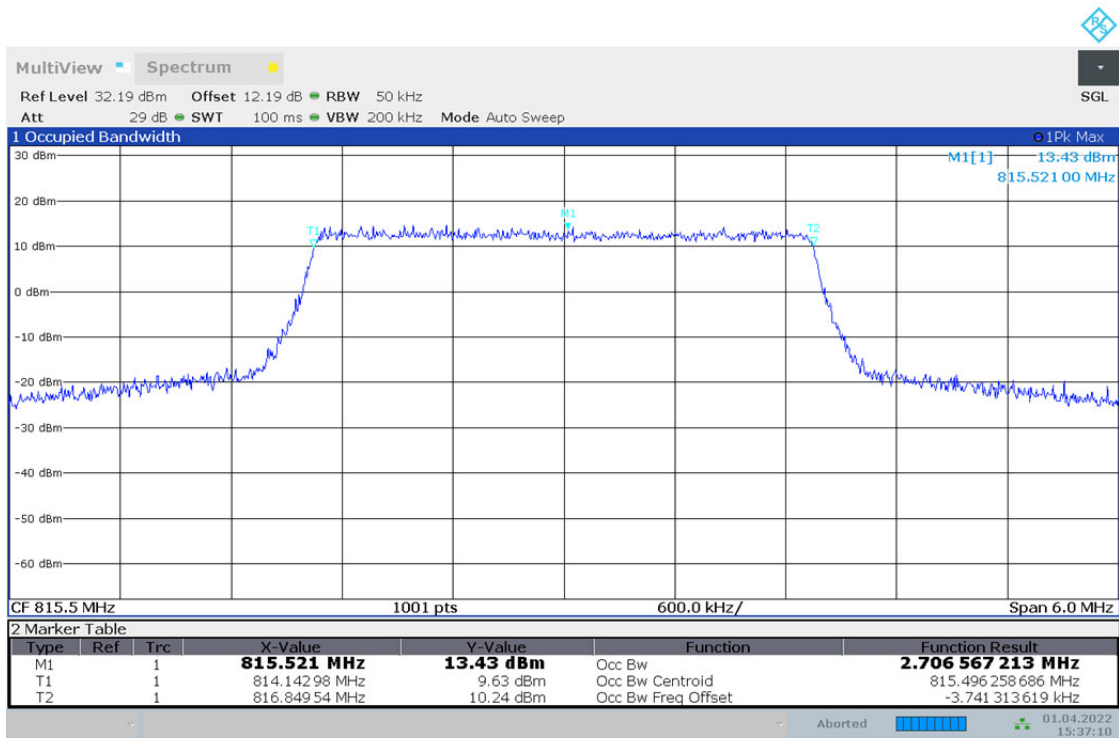


15:36:36 01.04.2022

4.2.16 TM2_3MHz_LCH_RB15#0

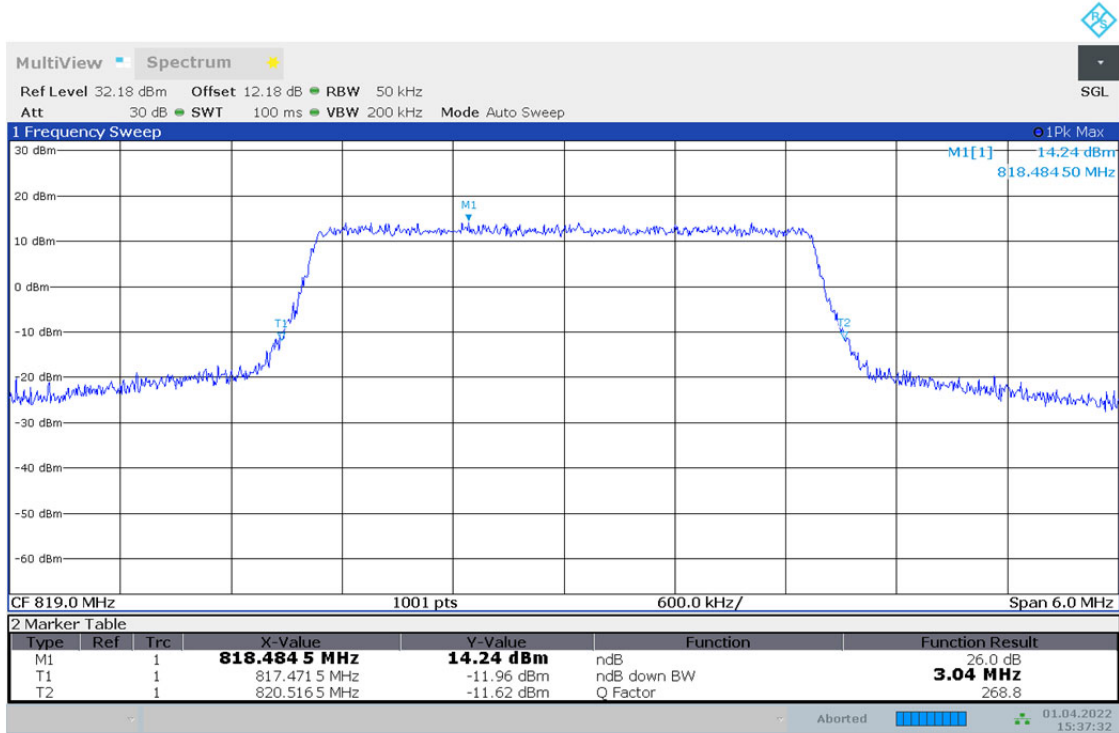


15:37:05 01.04.2022

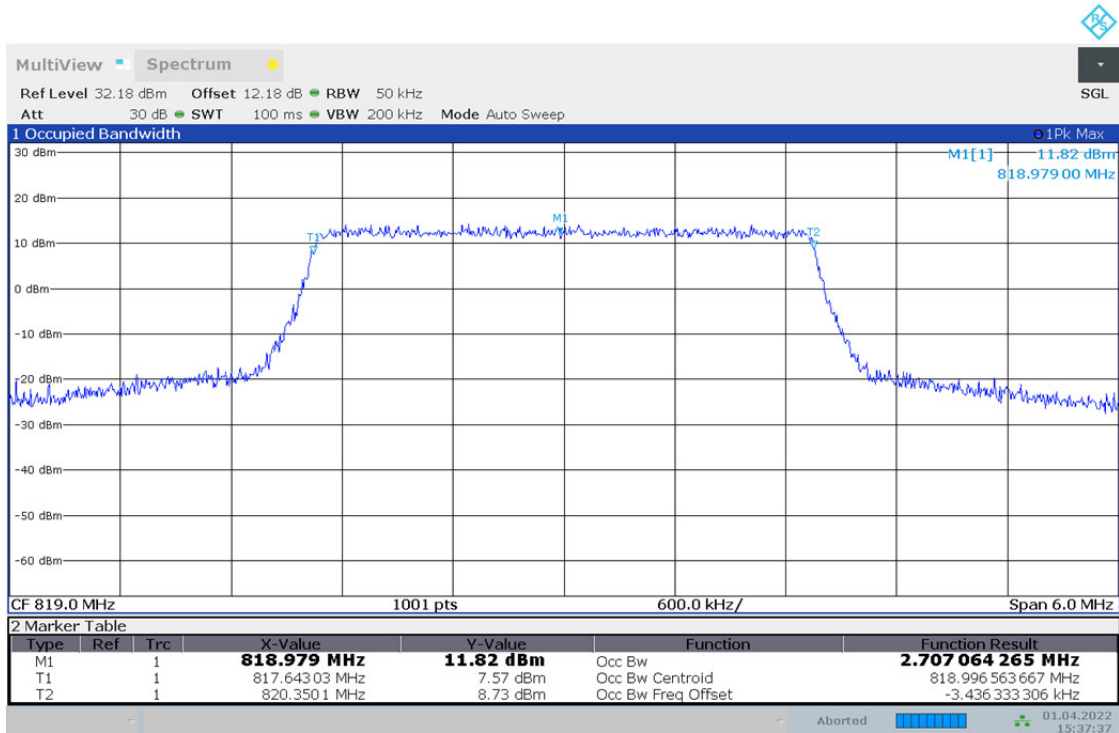


15:37:10 01.04.2022

4.2.17 TM2_3MHz_MCH_RB15#0

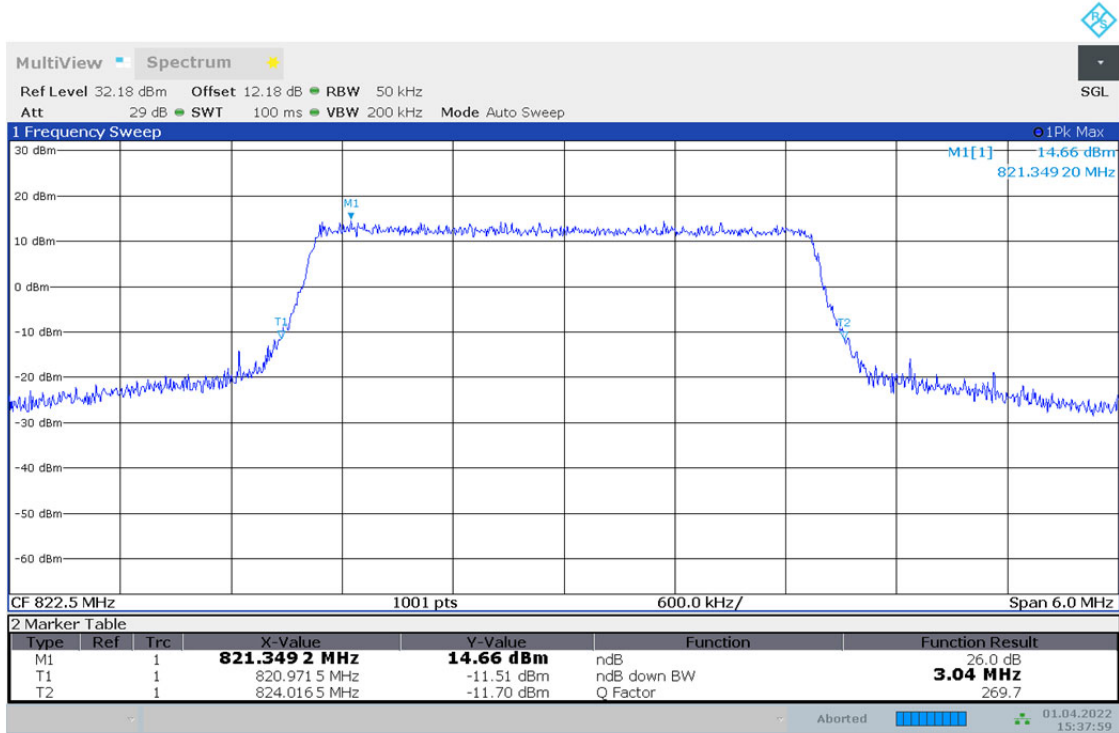


15:37:32 01.04.2022

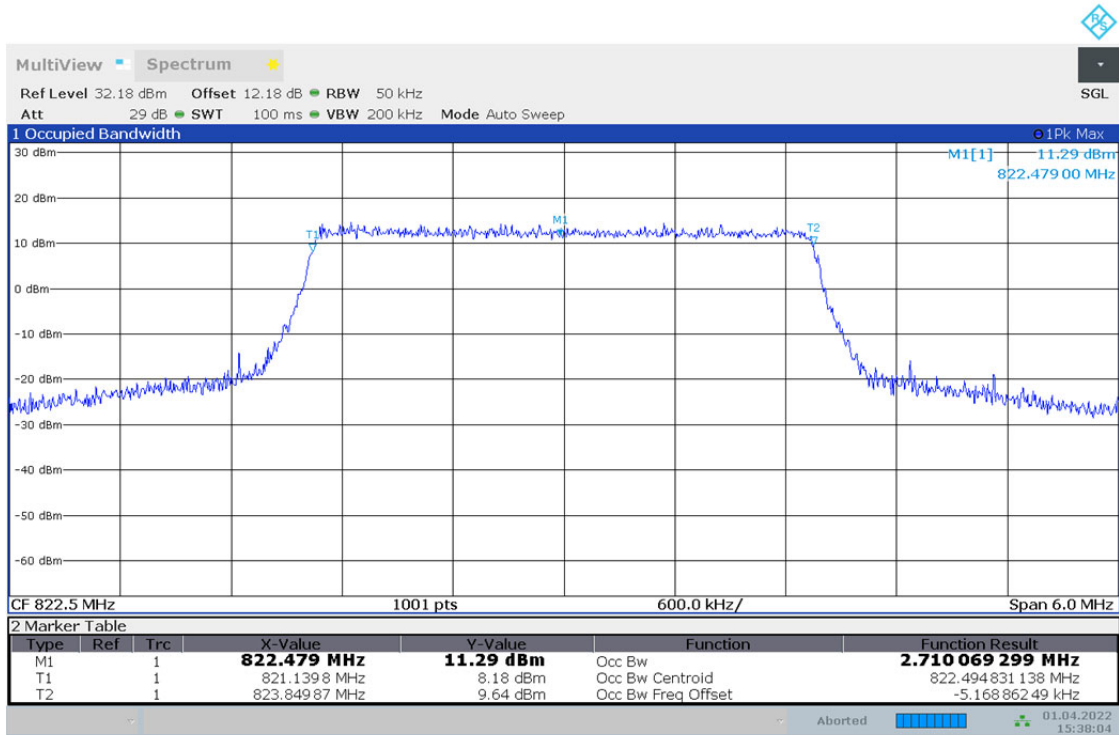


15:37:37 01.04.2022

4.2.18 TM2_3MHz_HCH_RB15#0

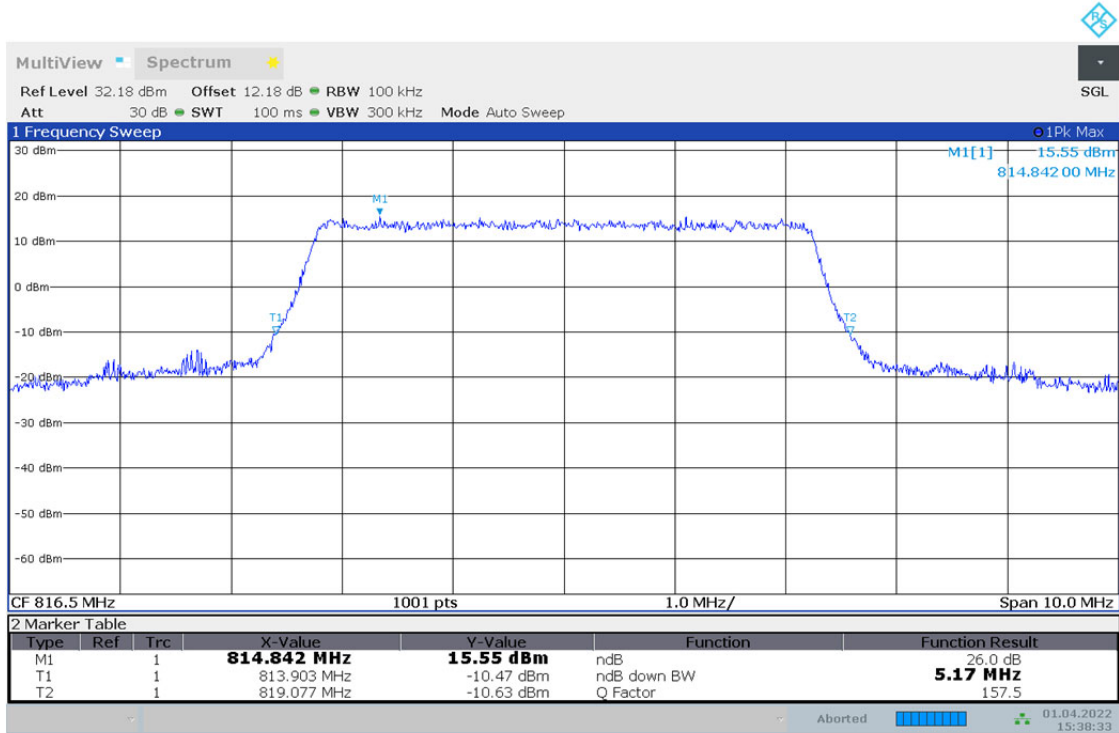


15:37:59 01.04.2022

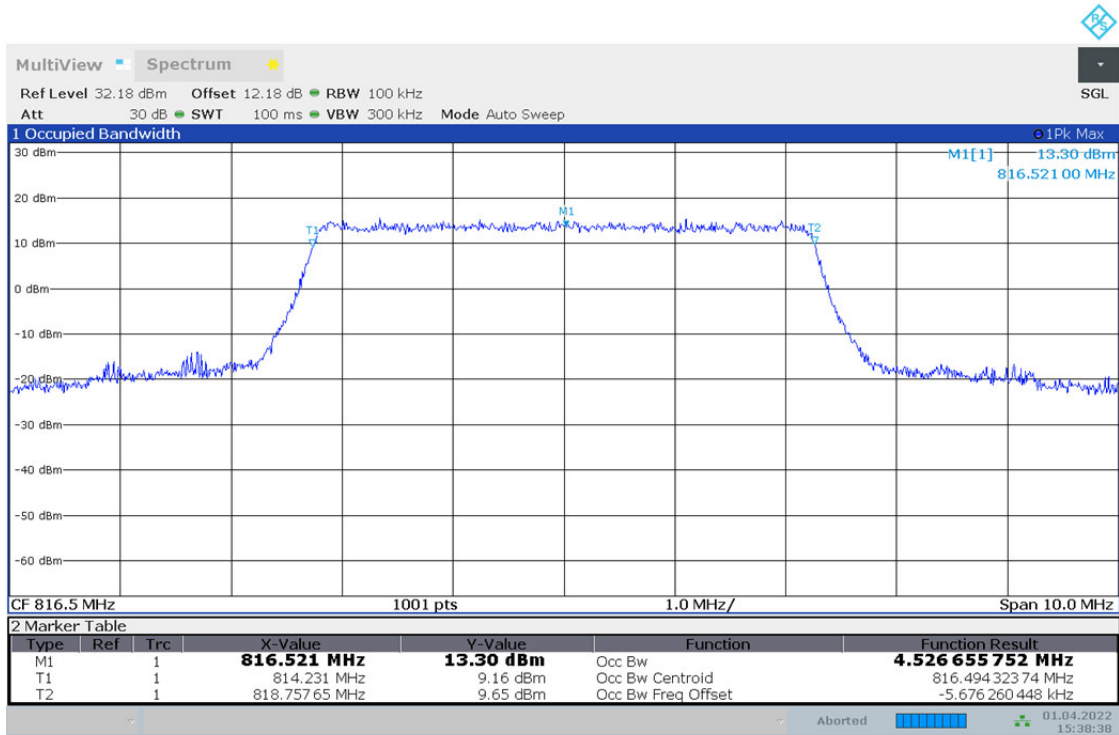


15:38:04 01.04.2022

4.2.19 TM2_5MHz_LCH_RB25#0



15:38:33 01.04.2022



15:38:38 01.04.2022