

Appendix B

E-UTRA Band 13



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power(dBm) | ERP (dBm) | limit (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|----------------------|-----------|-------------|---------|
| Band13 | 5MHz | QPSK | 23205 | 1RB#0 | 23.11 | 22.96 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#12 | 23.14 | 22.99 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#24 | 23.17 | 23.02 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 12RB#0 | 22.26 | 22.11 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 12RB#6 | 22.33 | 22.18 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 12RB#13 | 22.27 | 22.12 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 22.34 | 22.19 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#0 | 23.17 | 23.02 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#12 | 23.22 | 23.07 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#24 | 23.17 | 23.02 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 12RB#0 | 22.28 | 22.13 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 12RB#6 | 22.30 | 22.15 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 12RB#13 | 22.30 | 22.15 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 22.28 | 22.13 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#0 | 23.15 | 23 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#12 | 23.17 | 23.02 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#24 | 23.10 | 22.95 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 12RB#6 | 22.26 | 22.11 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 12RB#0 | 22.25 | 22.1 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 12RB#13 | 22.27 | 22.12 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 22.25 | 22.1 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 1RB#24 | 21.41 | 21.26 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 1RB#0 | 21.28 | 21.13 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 1RB#12 | 21.44 | 21.29 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 12RB#0 | 20.36 | 20.21 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 12RB#6 | 20.41 | 20.26 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 12RB#13 | 20.38 | 20.23 | 34.77 | PASS |

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| | | | | | | | | |
|--------|------|-------|-------|---------|-------|-------|-------|------|
| Band13 | 5MHz | 64QAM | 23205 | 25RB#0 | 20.40 | 20.25 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 1RB#0 | 21.35 | 21.2 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 1RB#24 | 21.41 | 21.26 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 1RB#12 | 21.52 | 21.37 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 12RB#13 | 20.37 | 20.22 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 12RB#6 | 20.35 | 20.2 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 12RB#0 | 20.37 | 20.22 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 25RB#0 | 20.39 | 20.24 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 1RB#12 | 21.37 | 21.22 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 1RB#0 | 21.42 | 21.27 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 1RB#24 | 21.27 | 21.12 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 12RB#0 | 20.36 | 20.21 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 12RB#6 | 20.30 | 20.15 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 12RB#13 | 20.32 | 20.17 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 25RB#0 | 20.29 | 20.14 | 34.77 | FAIL |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#0 | 22.34 | 22.19 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#12 | 22.36 | 22.21 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#24 | 22.43 | 22.28 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 12RB#0 | 21.30 | 21.15 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 12RB#6 | 21.35 | 21.2 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 12RB#13 | 21.33 | 21.18 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 21.29 | 21.14 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#0 | 22.42 | 22.27 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#24 | 22.41 | 22.26 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#12 | 22.48 | 22.33 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 12RB#0 | 21.34 | 21.19 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 12RB#13 | 21.36 | 21.21 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 12RB#6 | 21.32 | 21.17 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 25RB#0 | 21.25 | 21.1 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#24 | 22.35 | 22.2 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#12 | 22.39 | 22.24 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#0 | 22.55 | 22.4 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 12RB#13 | 21.25 | 21.1 | 34.77 | PASS |

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| | | | | | | | | |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band13 | 5MHz | 16QAM | 23255 | 12RB#6 | 21.30 | 21.15 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 12RB#0 | 21.30 | 21.15 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 25RB#0 | 21.24 | 21.09 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#24 | 23.11 | 22.96 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#0 | 23.26 | 23.11 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#49 | 23.18 | 23.03 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 25RB#25 | 22.30 | 22.15 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 25RB#0 | 22.33 | 22.18 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 25RB#12 | 22.35 | 22.2 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 22.31 | 22.16 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#49 | 21.44 | 21.29 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#0 | 21.41 | 21.26 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#24 | 21.32 | 21.17 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 25RB#25 | 20.38 | 20.23 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 25RB#0 | 20.37 | 20.22 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 25RB#12 | 20.40 | 20.25 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | 20.43 | 20.28 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#24 | 22.36 | 22.21 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#49 | 22.38 | 22.23 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#0 | 22.43 | 22.28 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 25RB#12 | 21.36 | 21.21 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 25RB#0 | 21.30 | 21.15 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 25RB#25 | 21.29 | 21.14 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 21.31 | 21.16 | 34.77 | PASS |

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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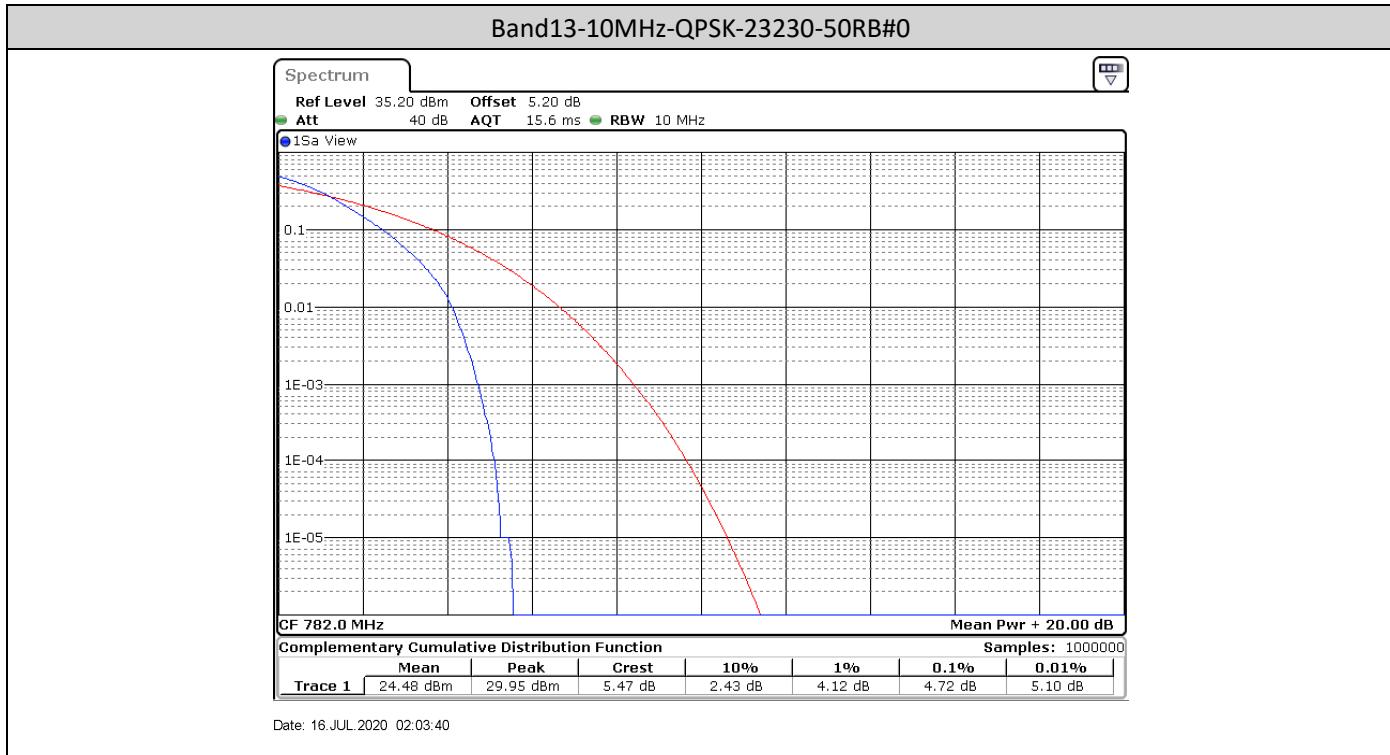
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2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 4.72 | 13 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | 6.41 | 13 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 5.77 | 13 | PASS |

2.2. Test Plots



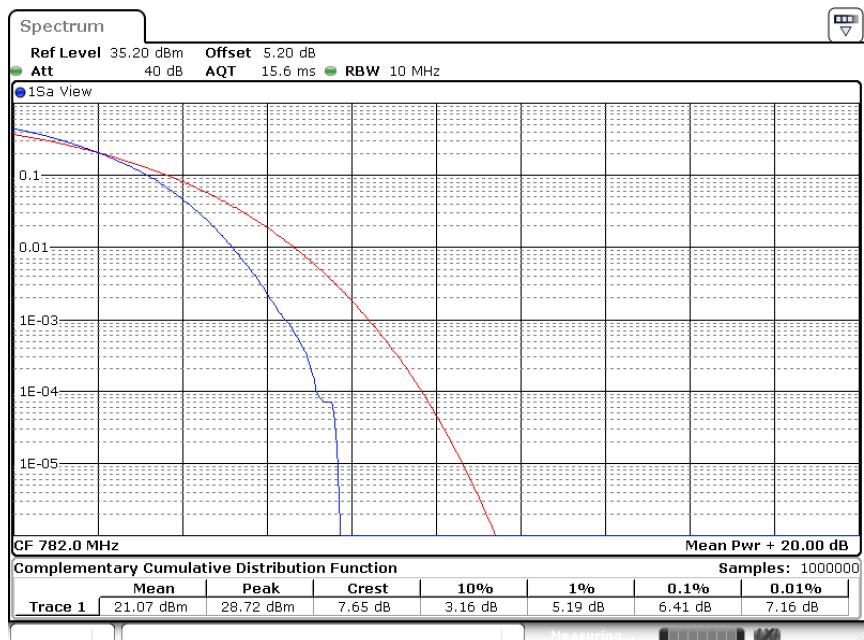
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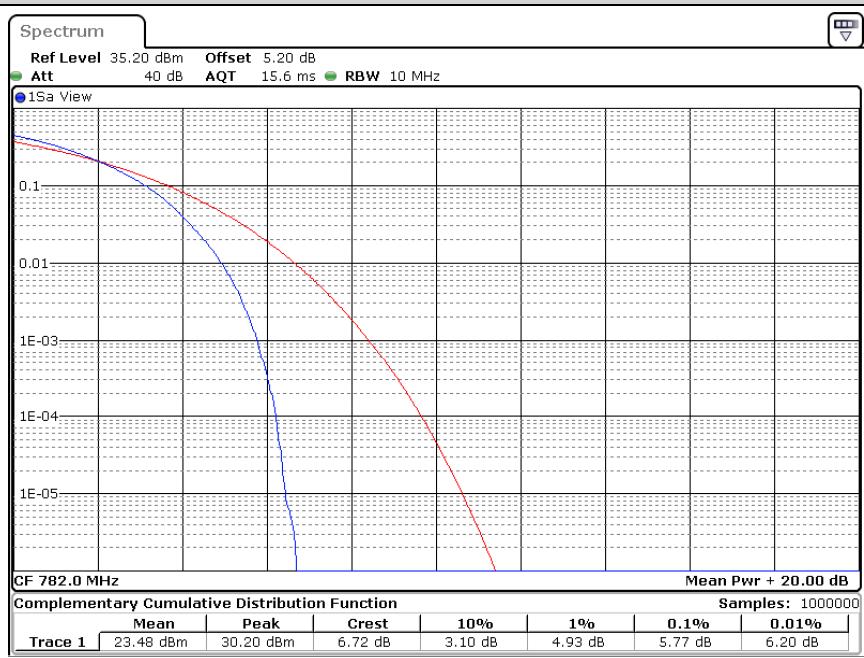
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Band13-10MHz-64QAM-23230-50RB#0



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Band13-10MHz-16QAM-23230-50RB#0



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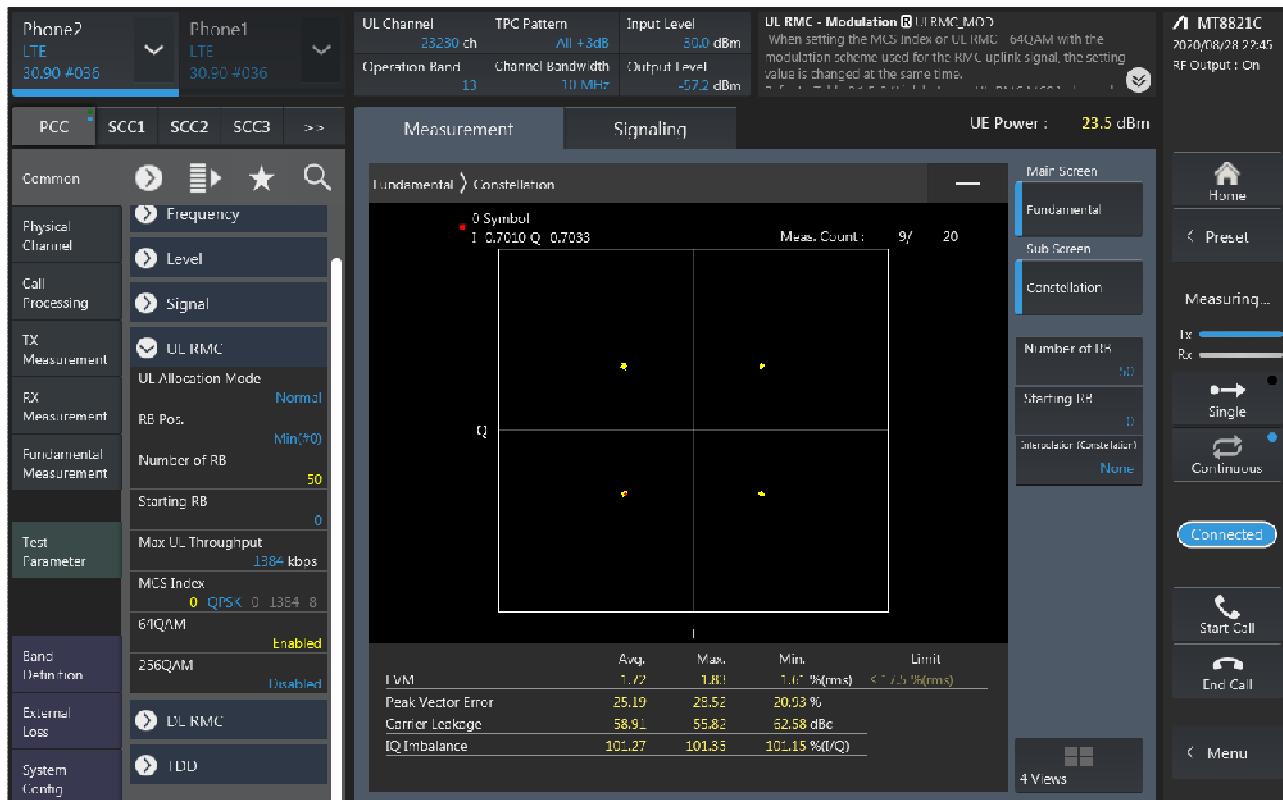


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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



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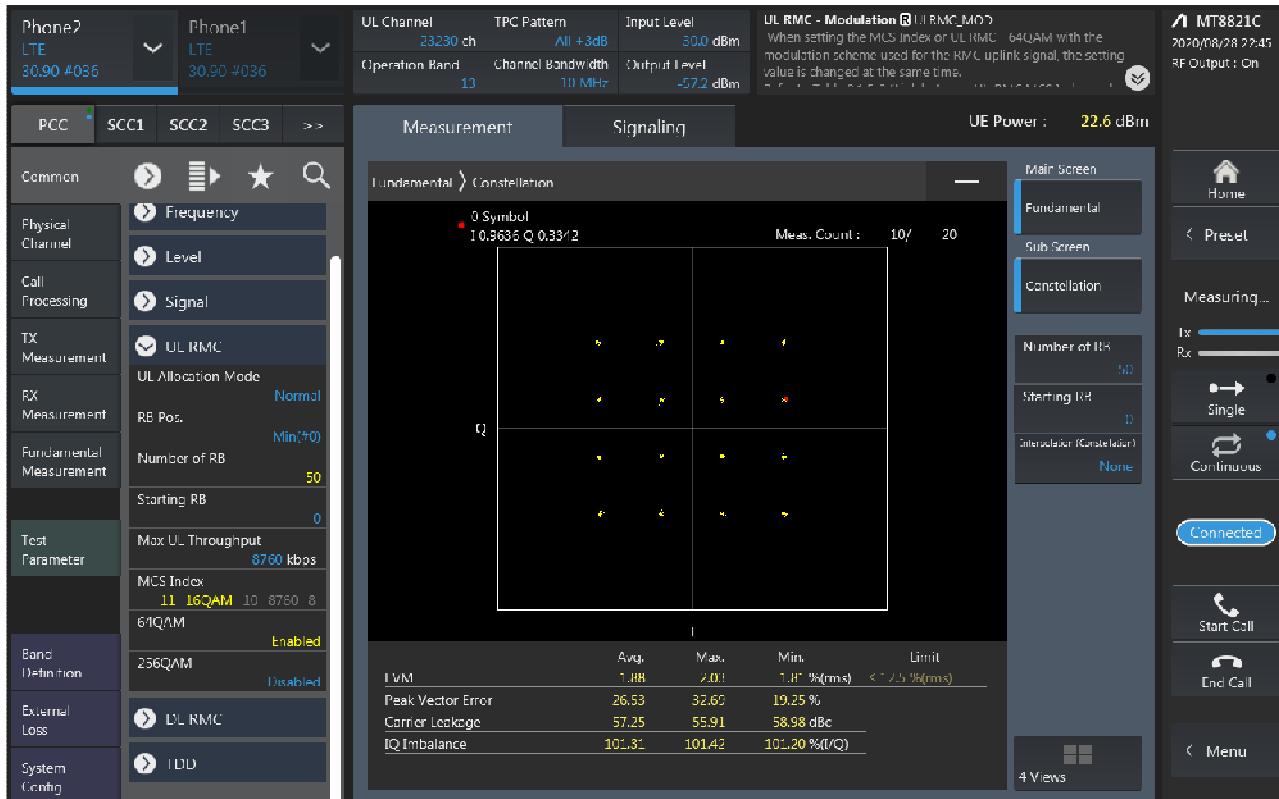


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3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH

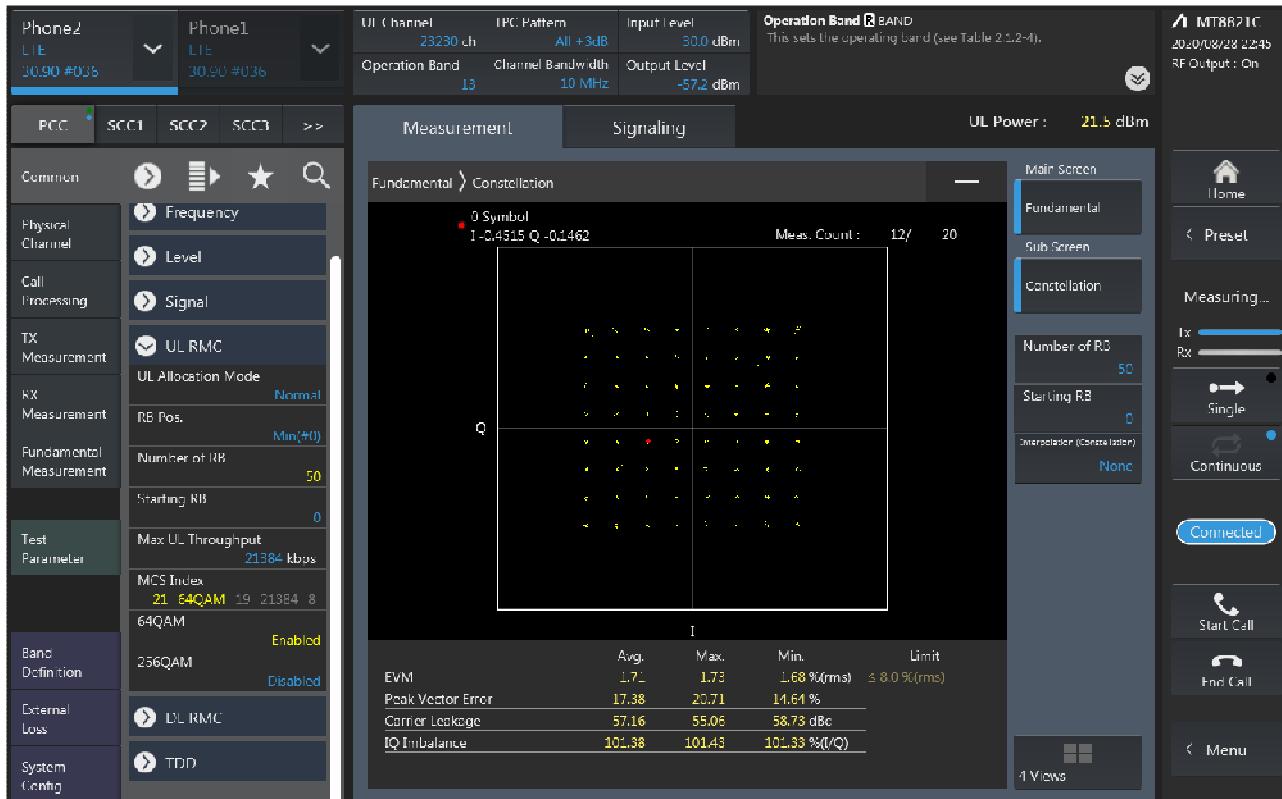


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3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 4.466 | 4.880 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 4.466 | 4.890 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 4.466 | 4.890 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 25RB#0 | 4.456 | 4.820 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 25RB#0 | 4.486 | 4.890 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 25RB#0 | 4.466 | 4.860 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 4.476 | 4.890 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 25RB#0 | 4.486 | 4.920 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 25RB#0 | 4.476 | 4.900 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 8.911 | 9.660 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | 8.891 | 9.620 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 8.931 | 9.660 | PASS |



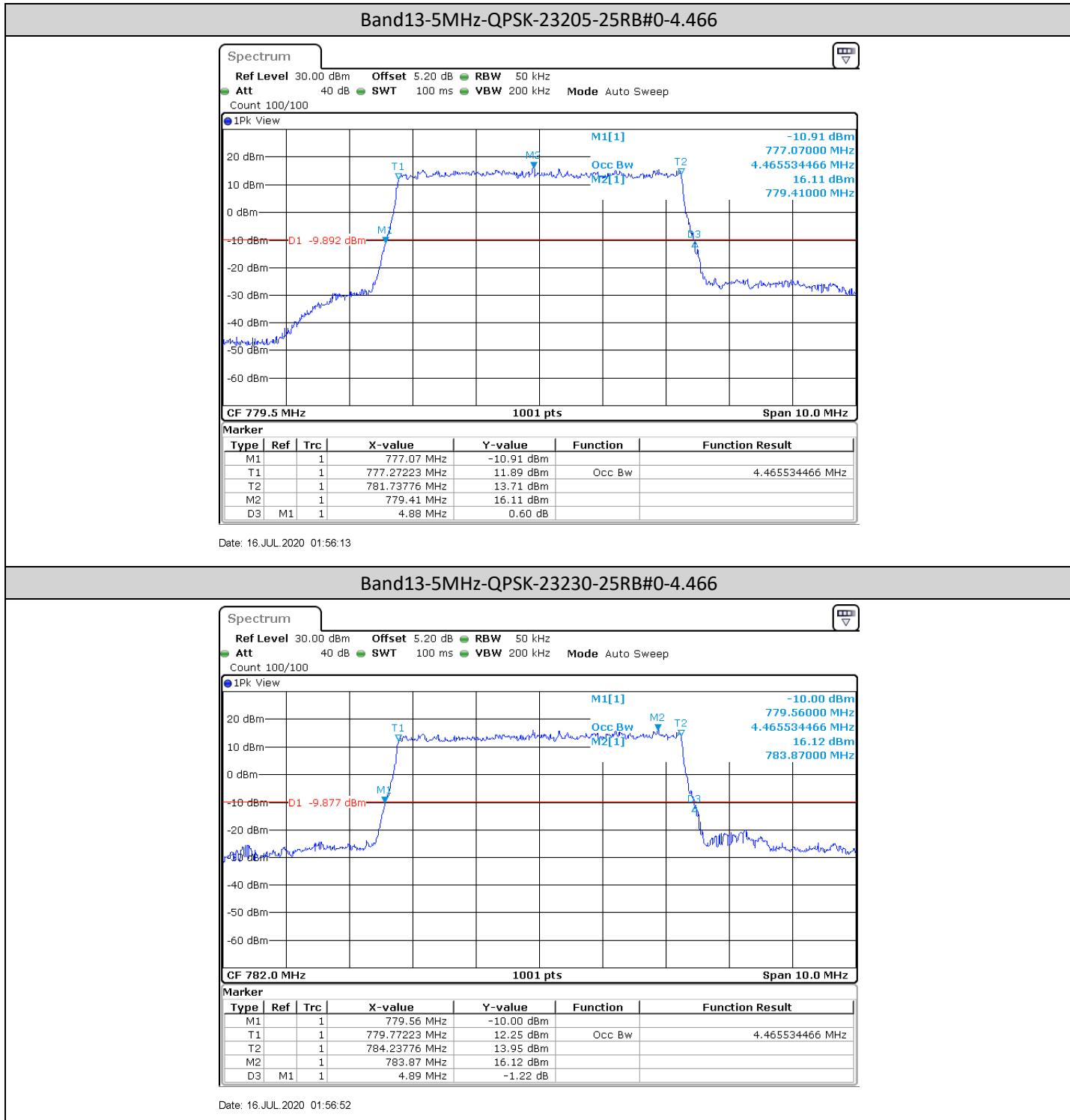
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4.2. Test Plots



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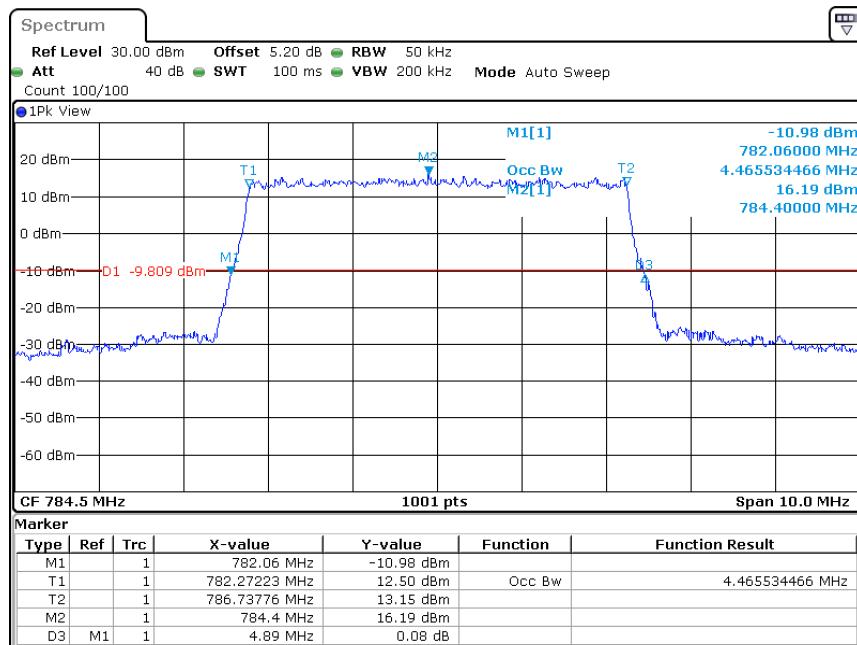
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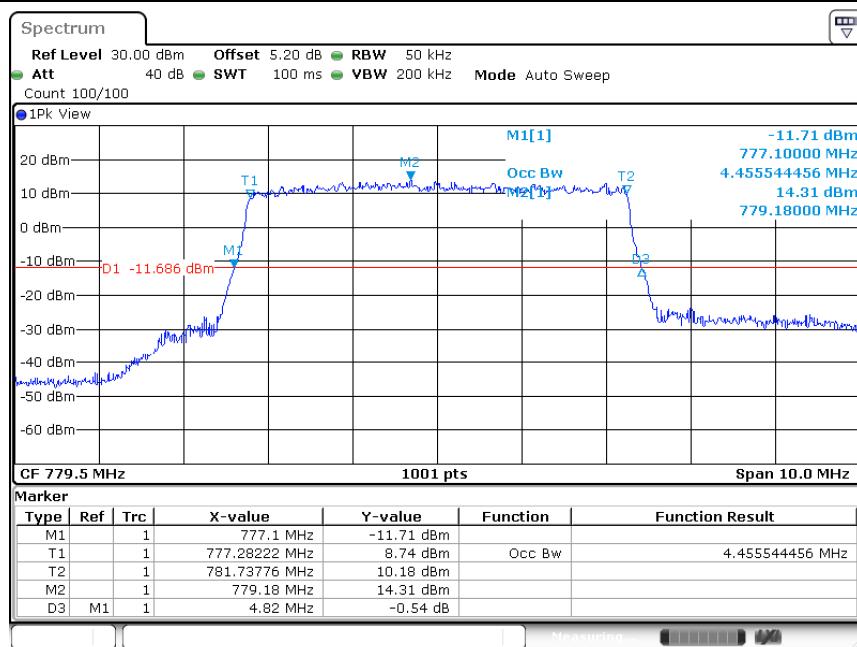
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Band13-5MHz-QPSK-23255-25RB#0-4.466



Date: 16.JUL.2020 01:57:32

Band13-5MHz-64QAM-23205-25RB#0-4.456



Date: 11.AUG.2020 08:46:27

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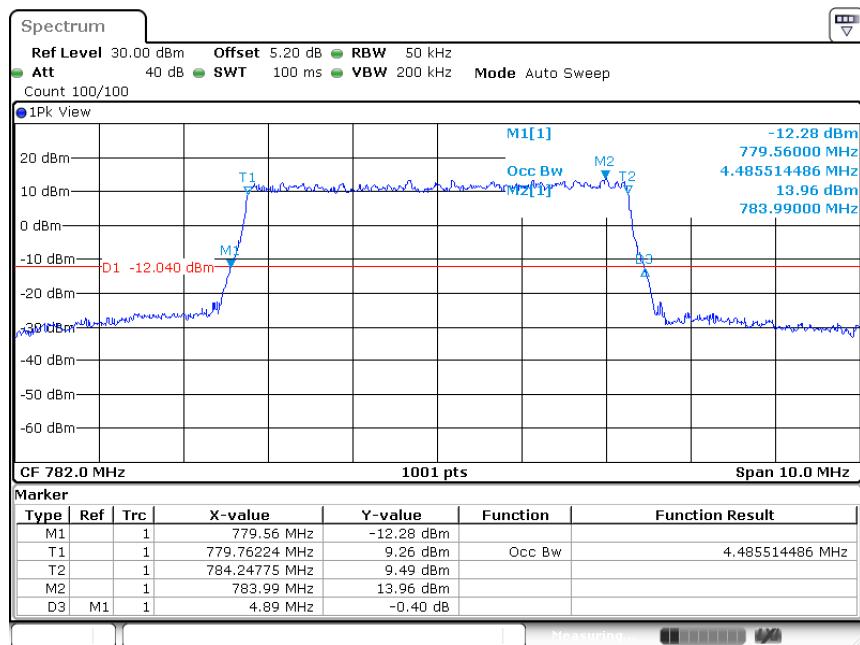
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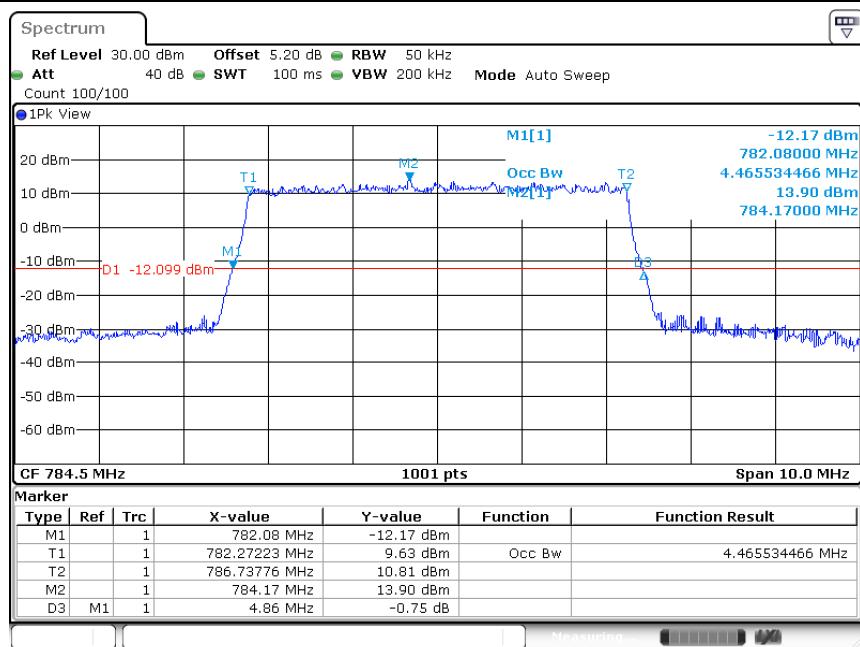
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Band13-5MHz-64QAM-23230-25RB#0-4.486



Date: 11.AUG.2020 08:46:47

Band13-5MHz-64QAM-23255-25RB#0-4.466



Date: 11.AUG.2020 08:47:07

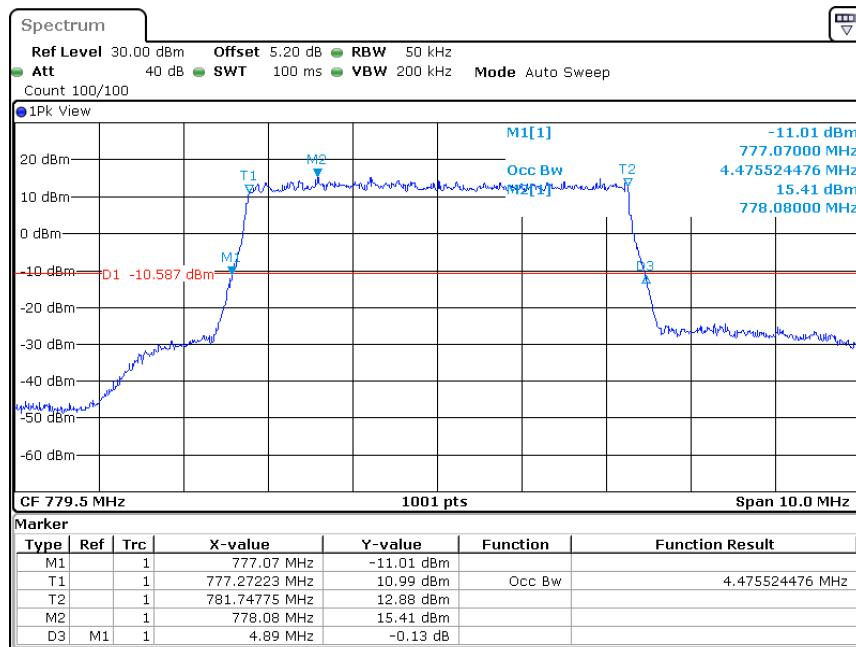
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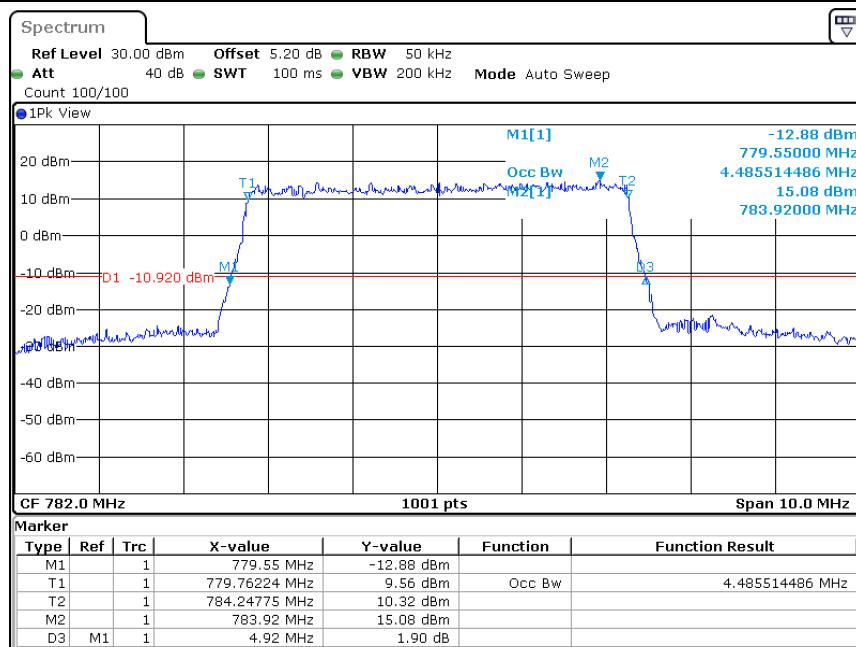
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Band13-5MHz-16QAM-23205-25RB#0-4.476



Date: 16.JUL.2020 01:56:33

Band13-5MHz-16QAM-23230-25RB#0-4.486



Date: 16.JUL.2020 01:57:12

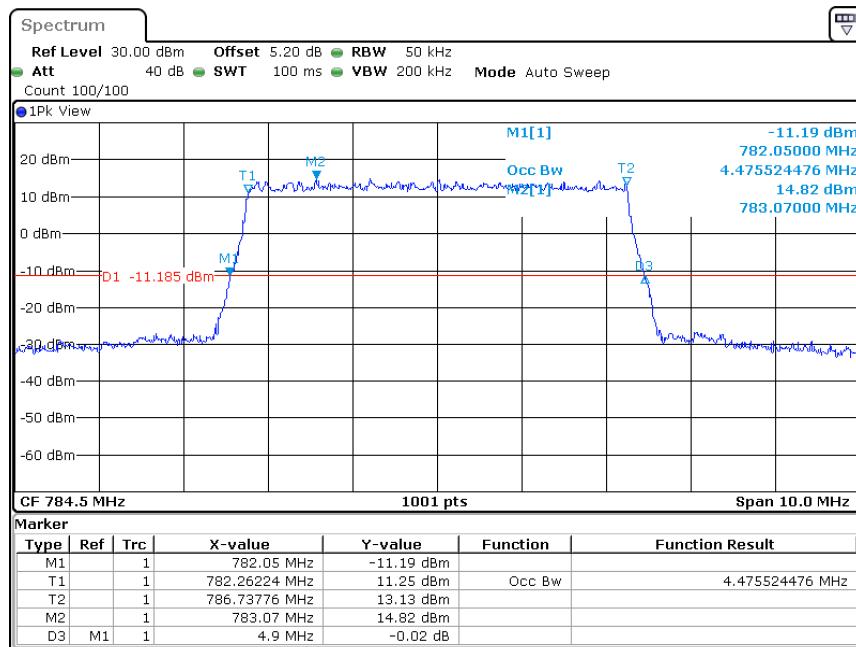
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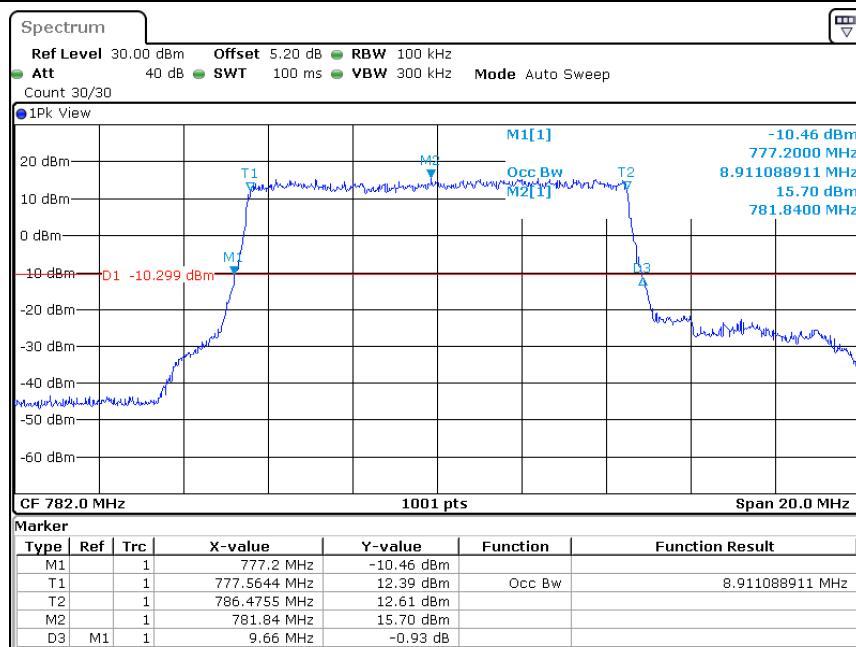
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Band13-5MHz-16QAM-23255-25RB#0-4.476



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Band13-10MHz-QPSK-23230-50RB#0-8.911



Date: 16.JUL.2020 01:58:09

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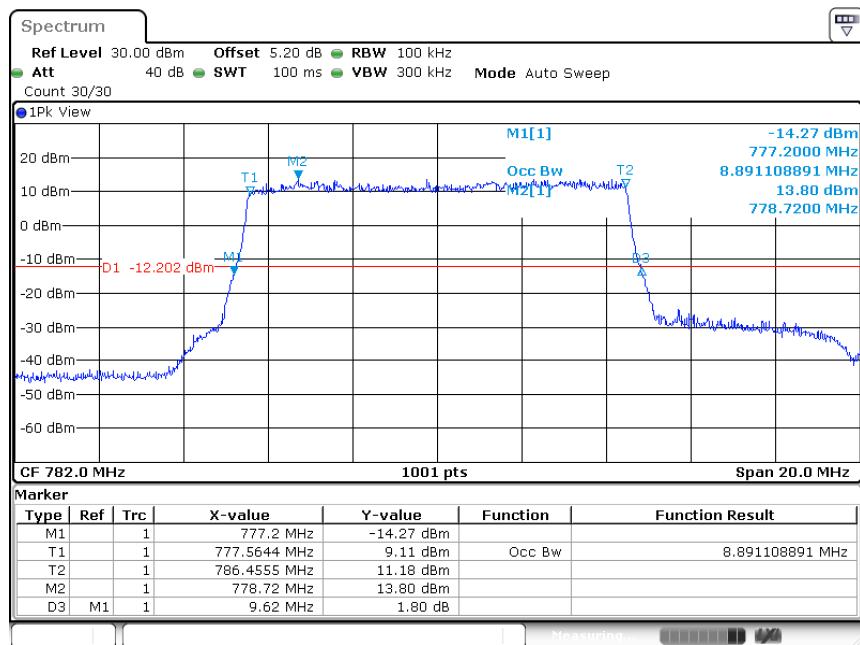
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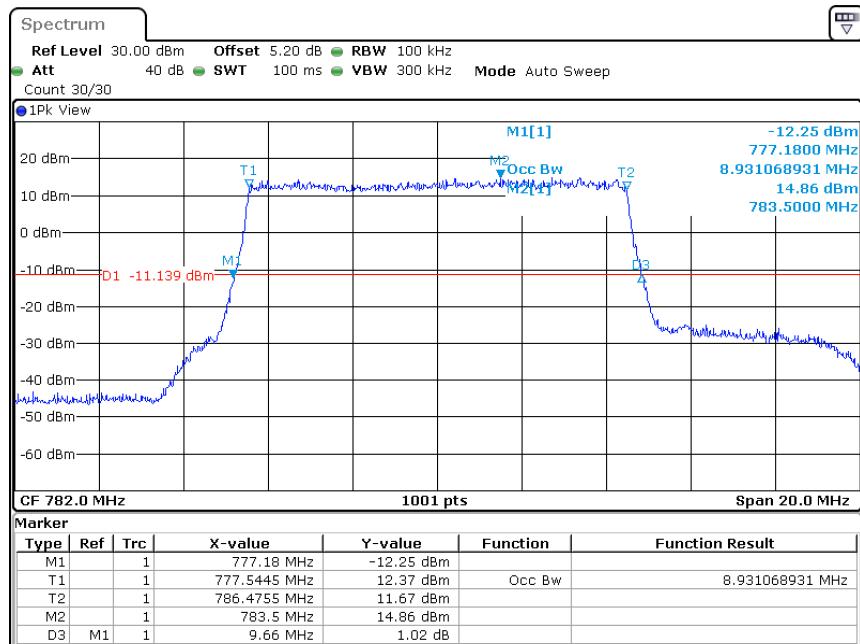
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Band13-10MHz-64QAM-23230-50RB#0-8.891



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Band13-10MHz-16QAM-23230-50RB#0-8.931



Date: 16.JUL.2020 01:58:21

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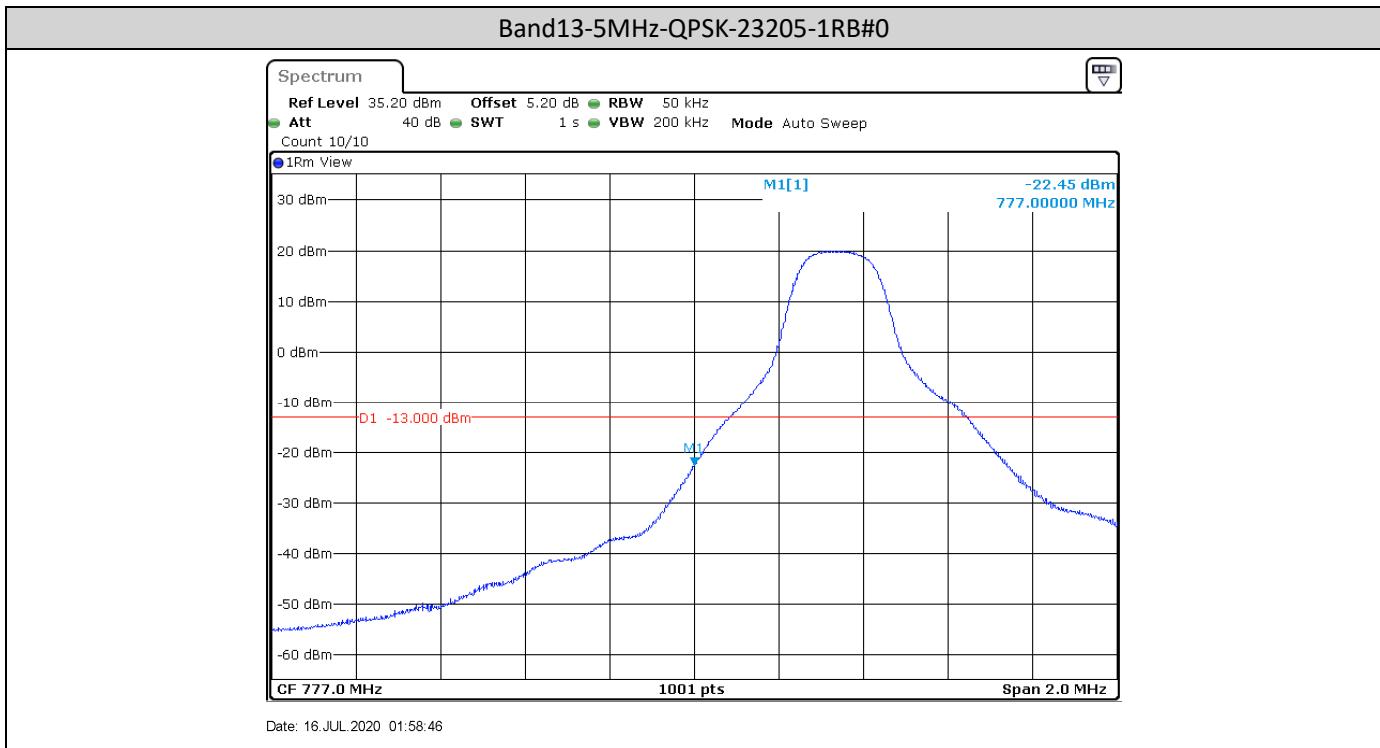


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5. Band Edge Compliance

5.1. Test Plots

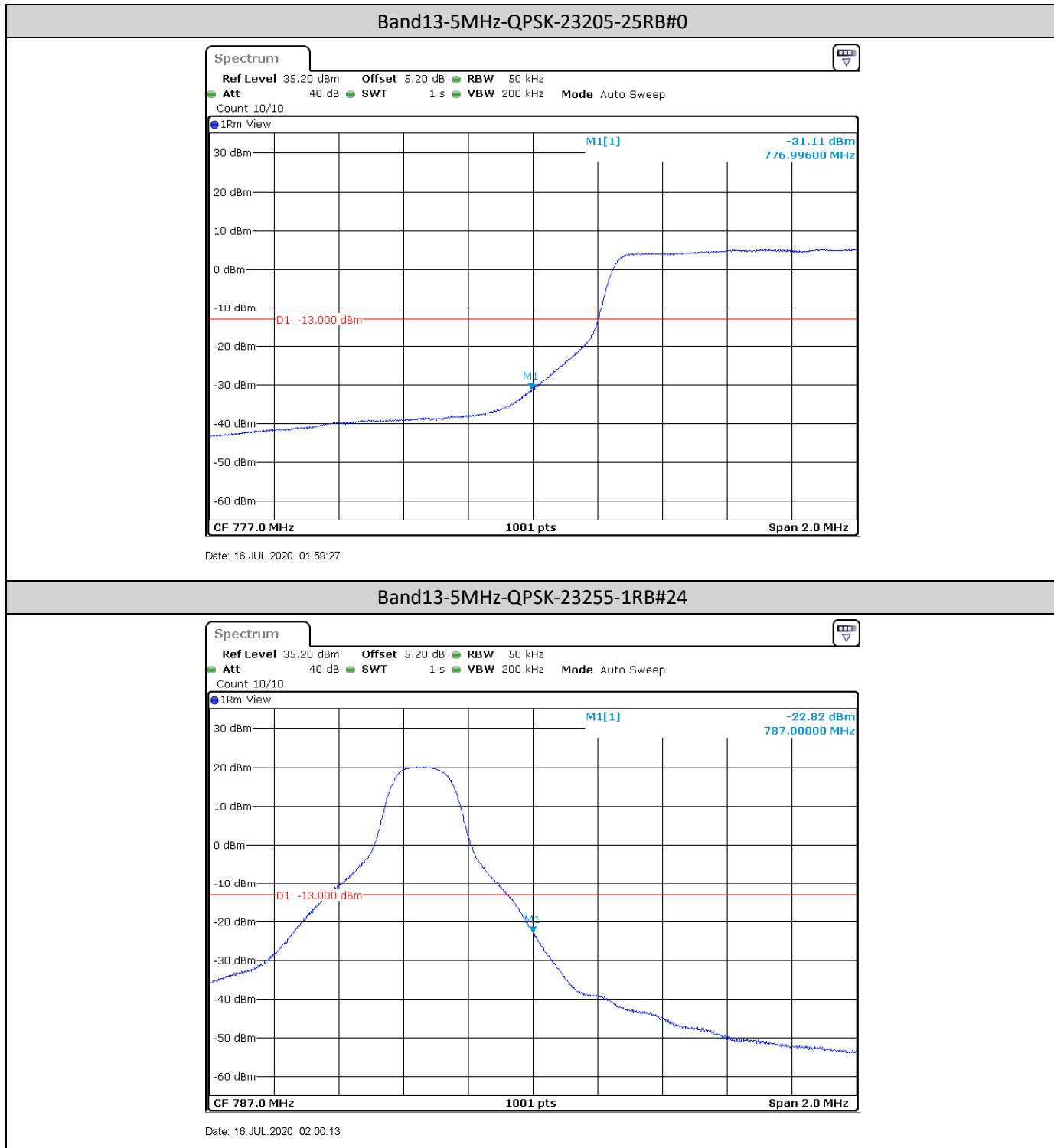


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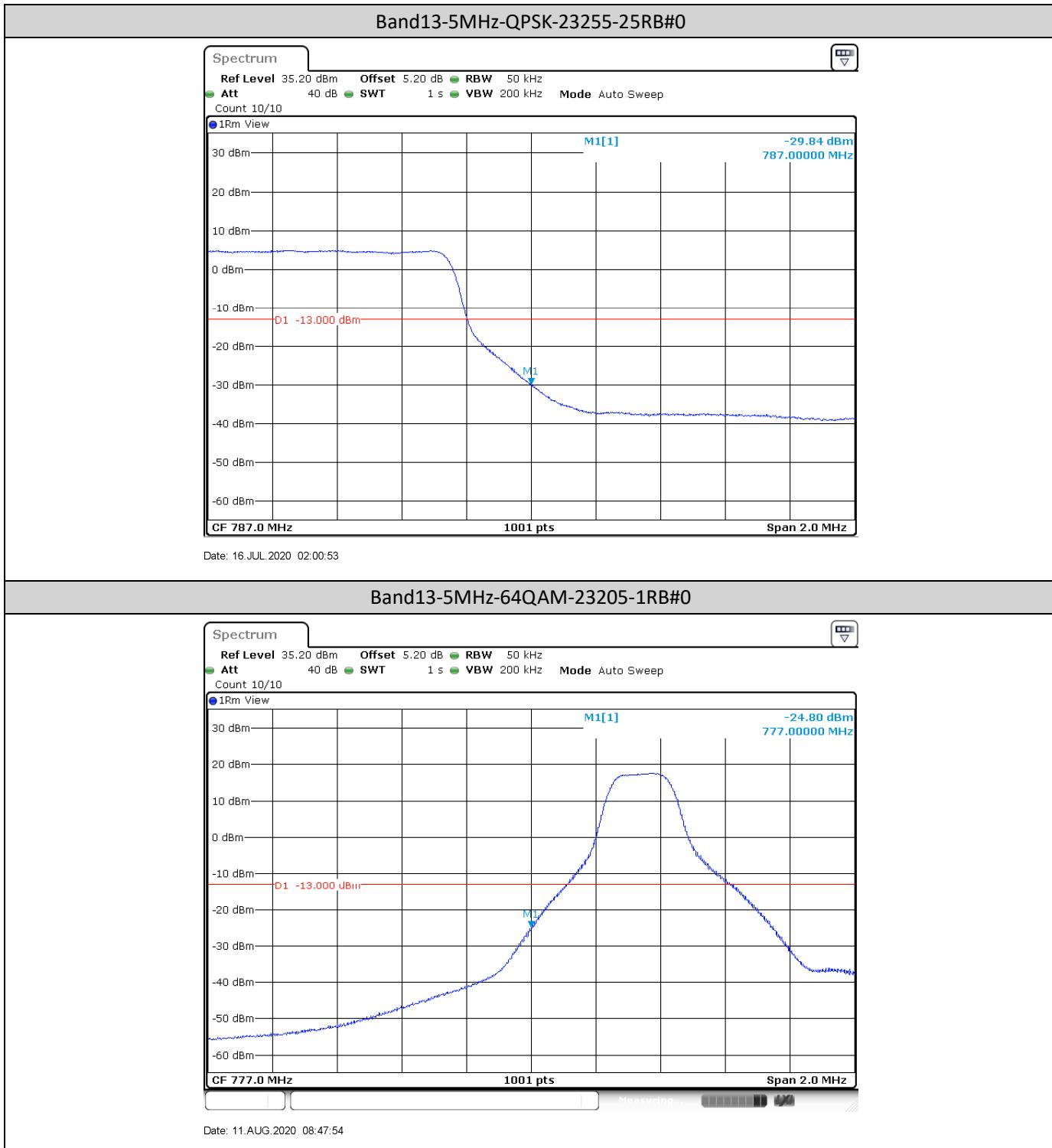
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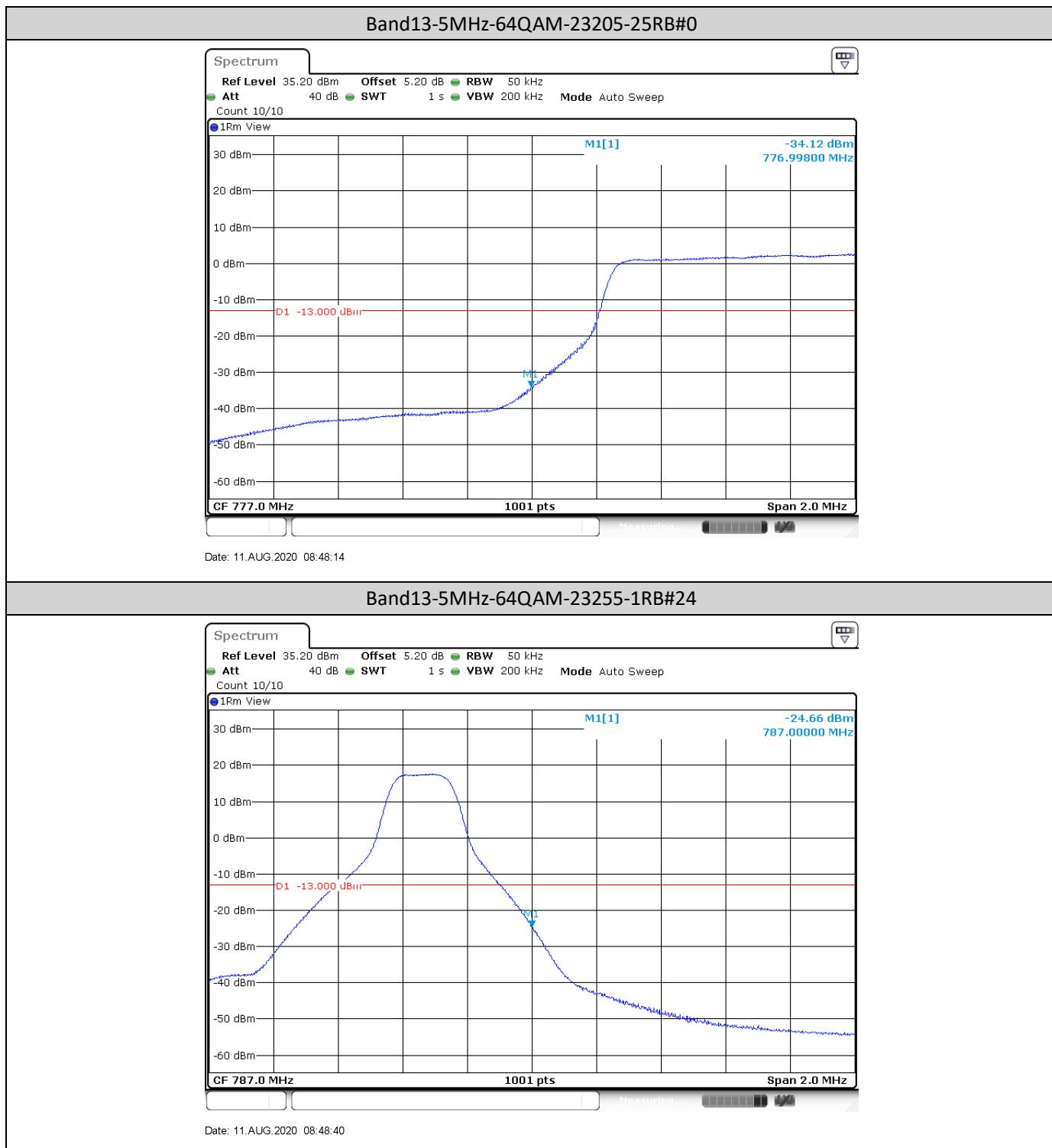
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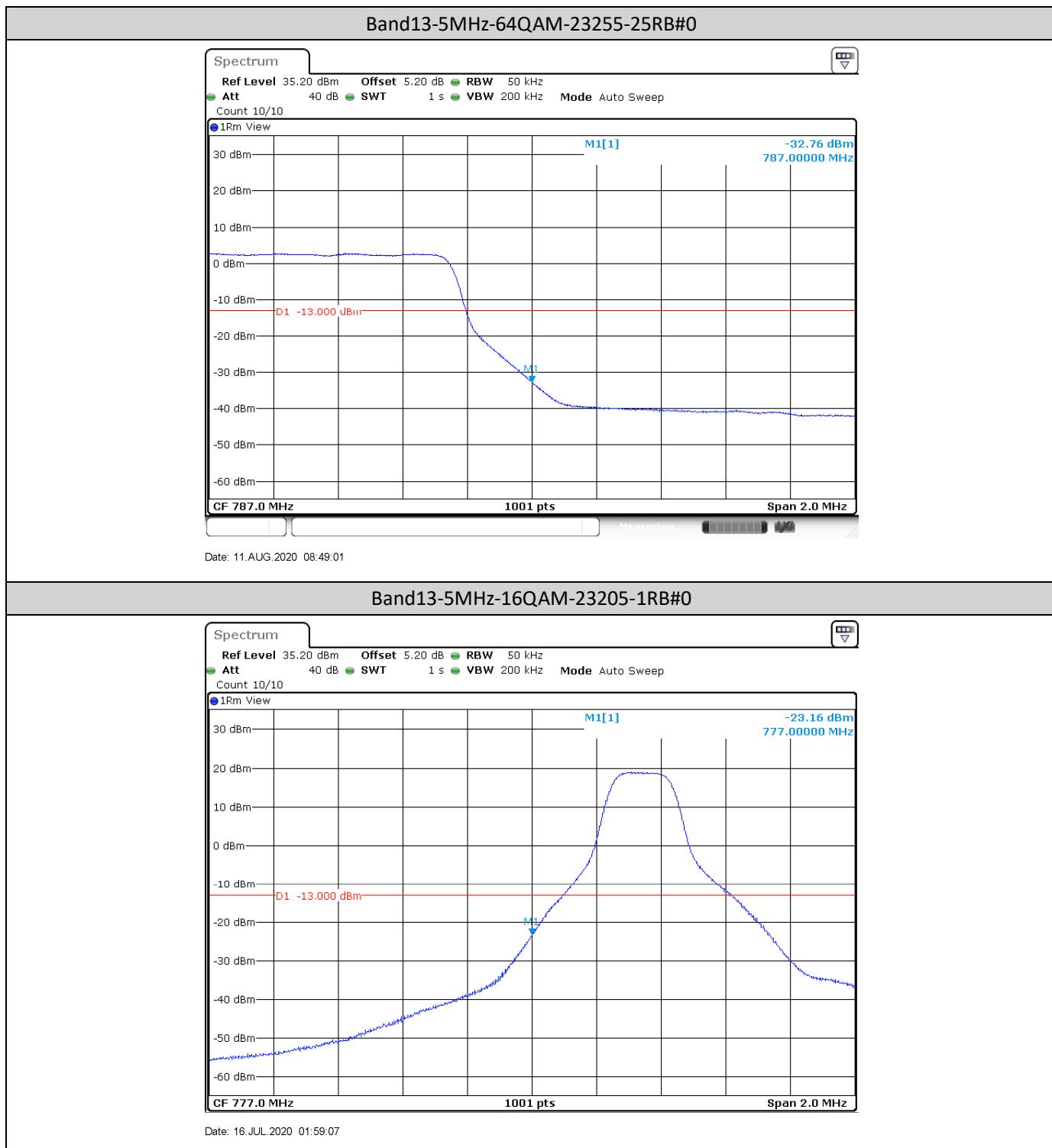
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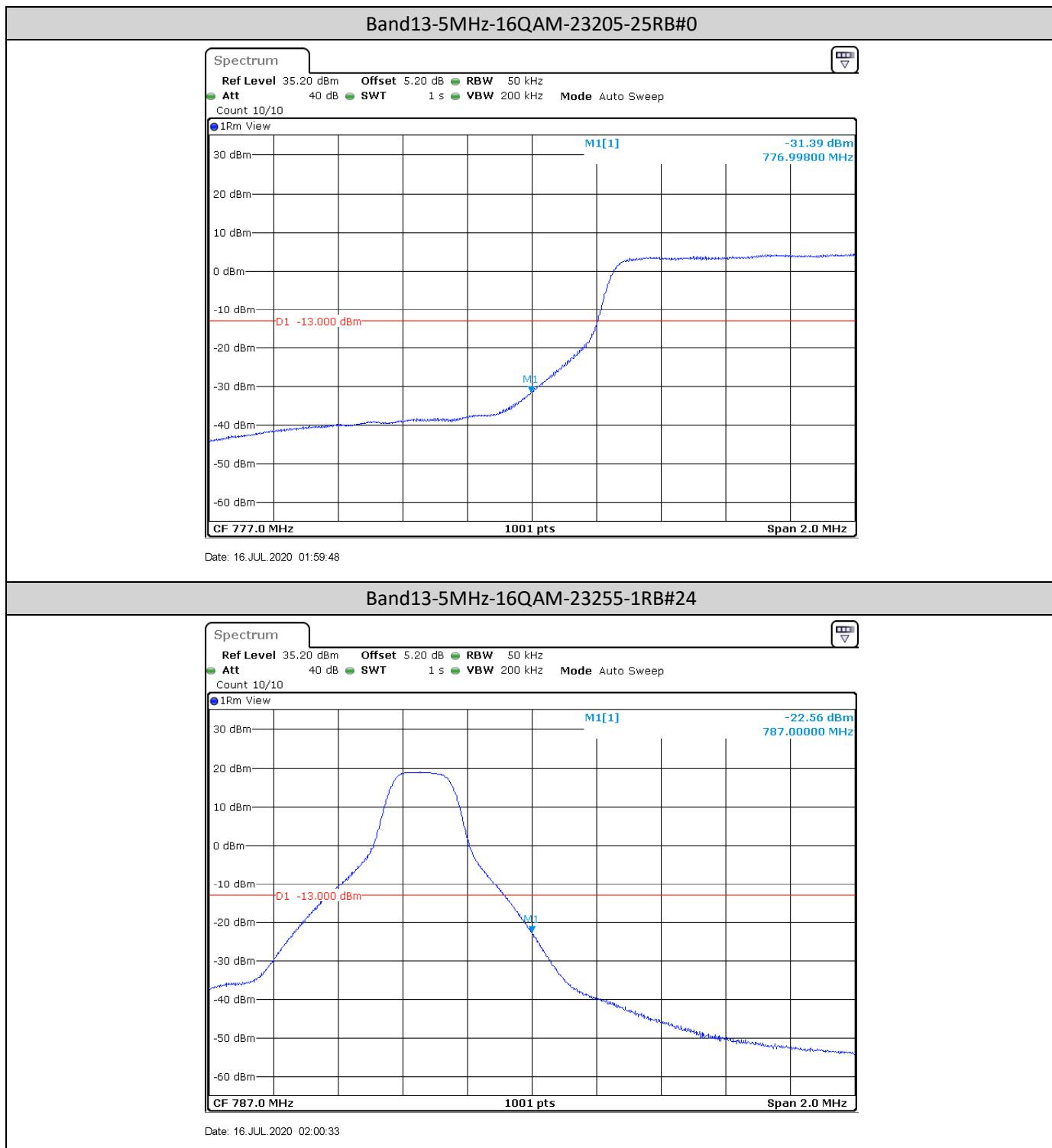


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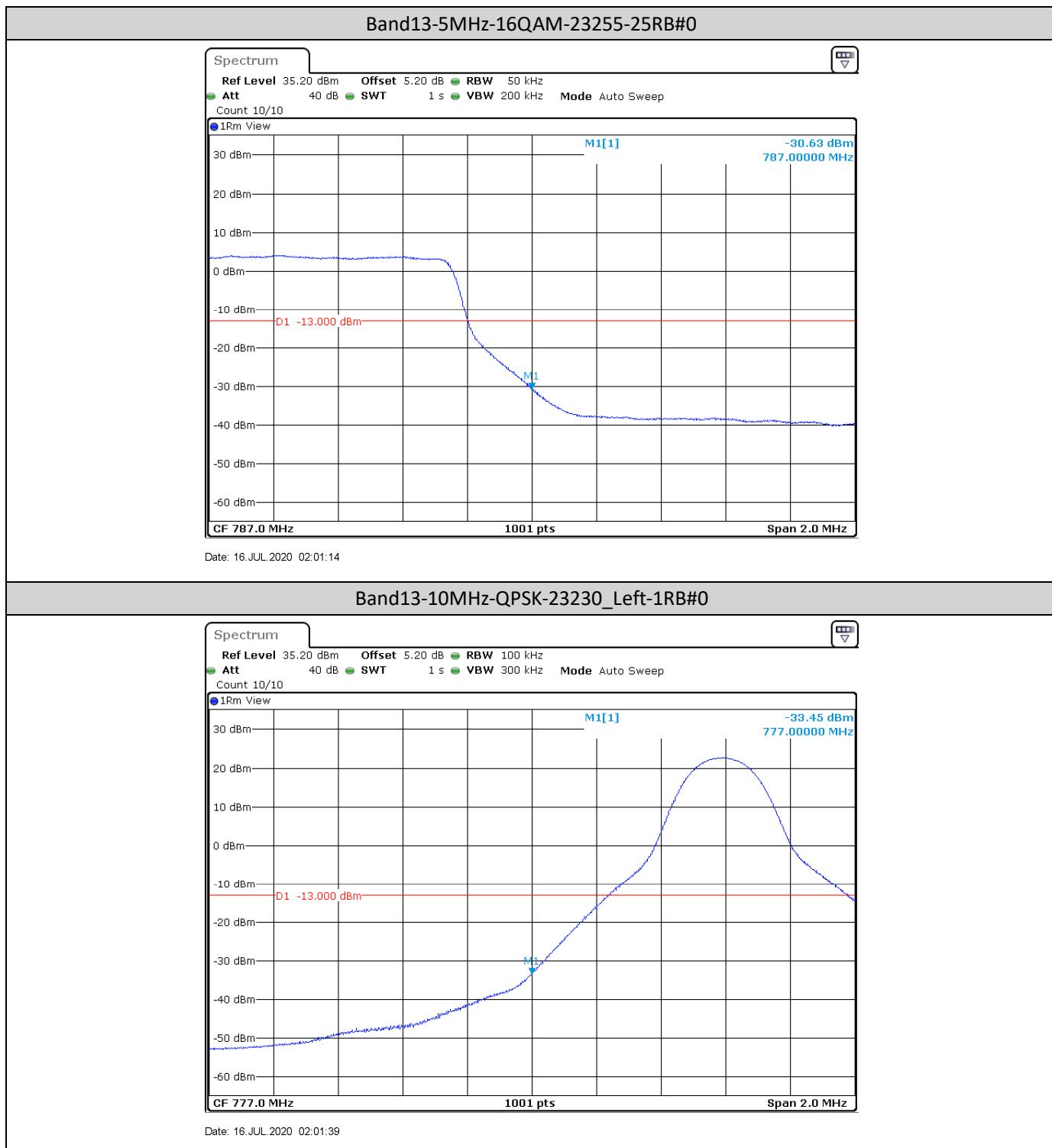


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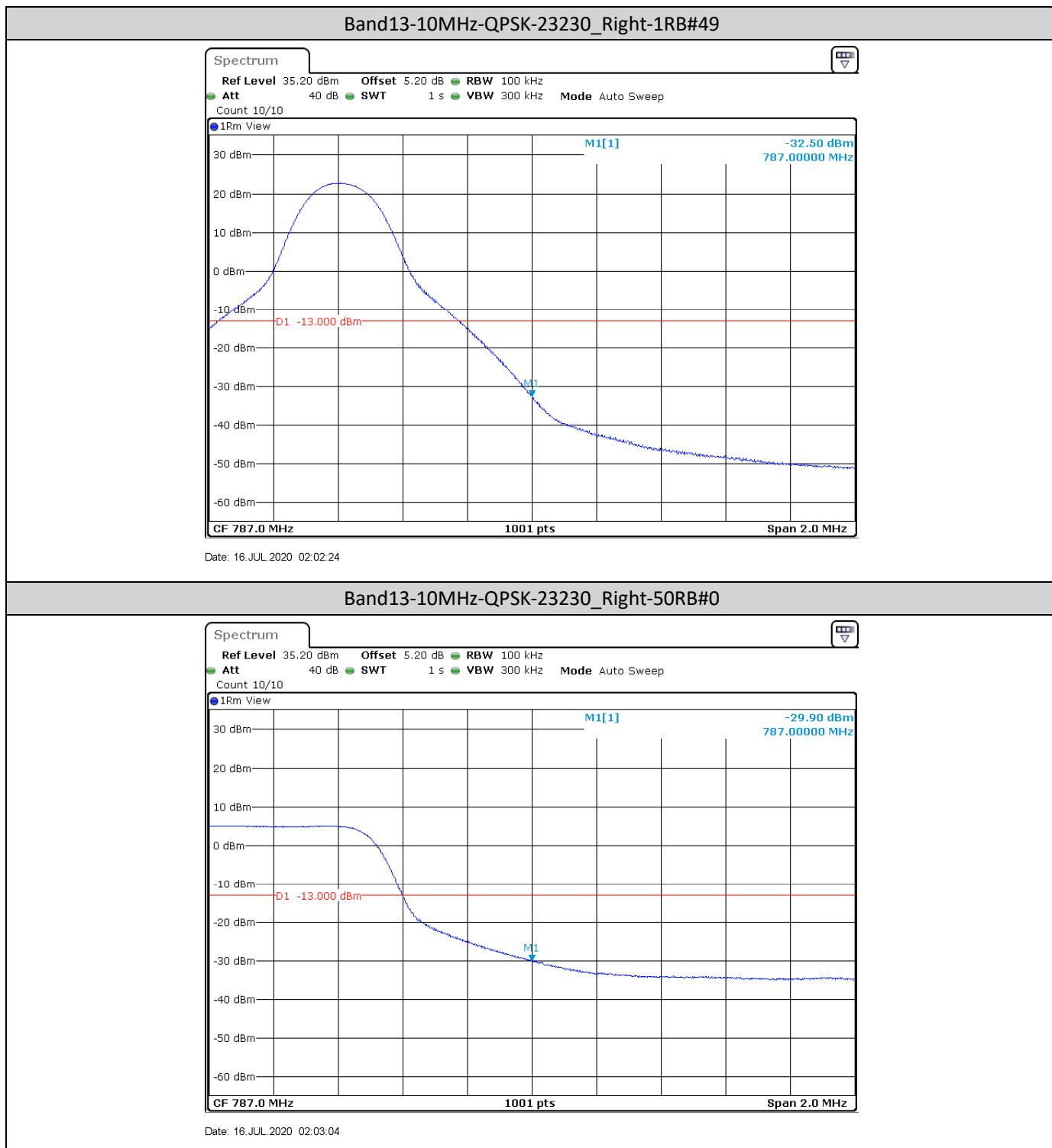


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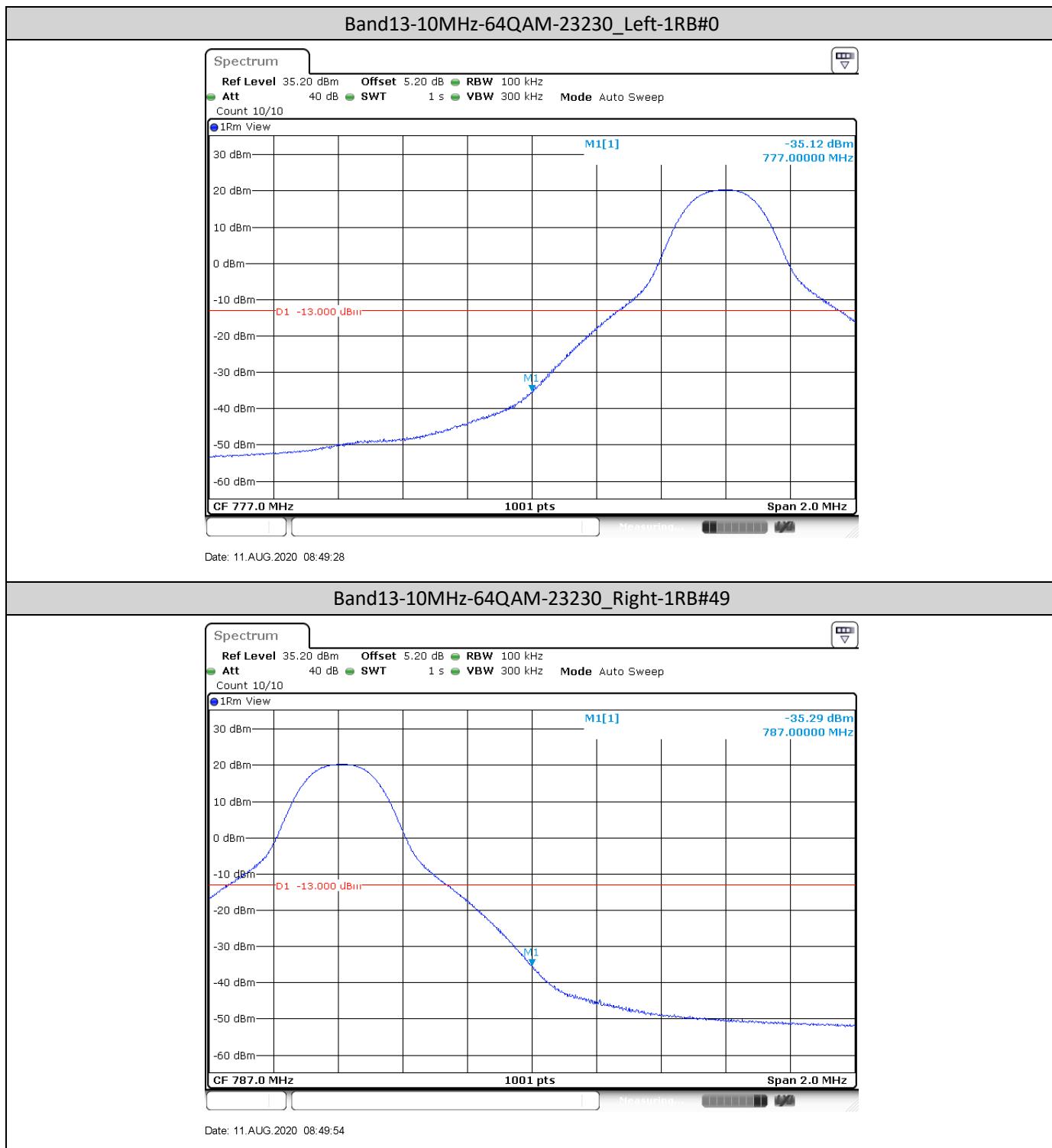
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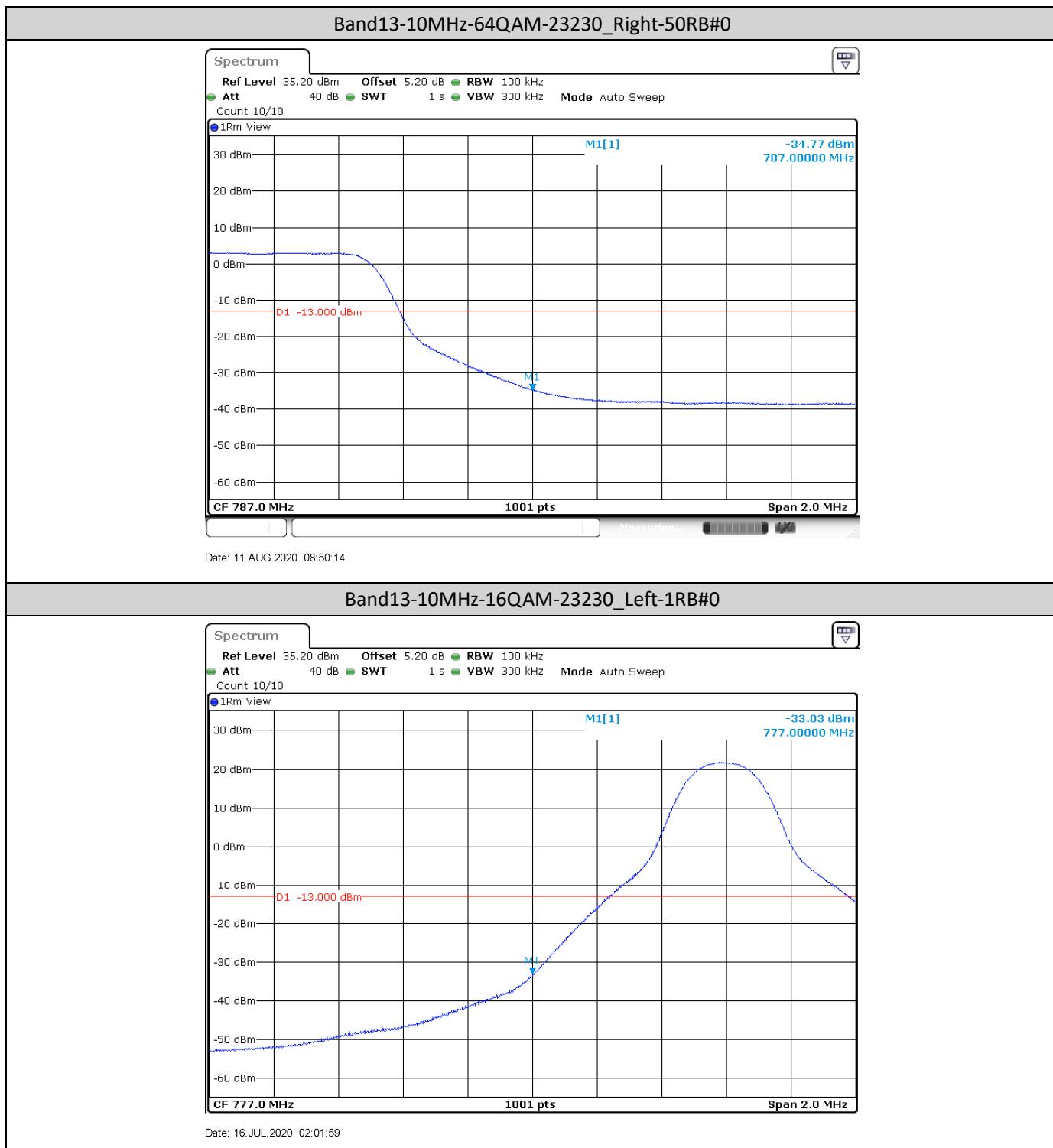
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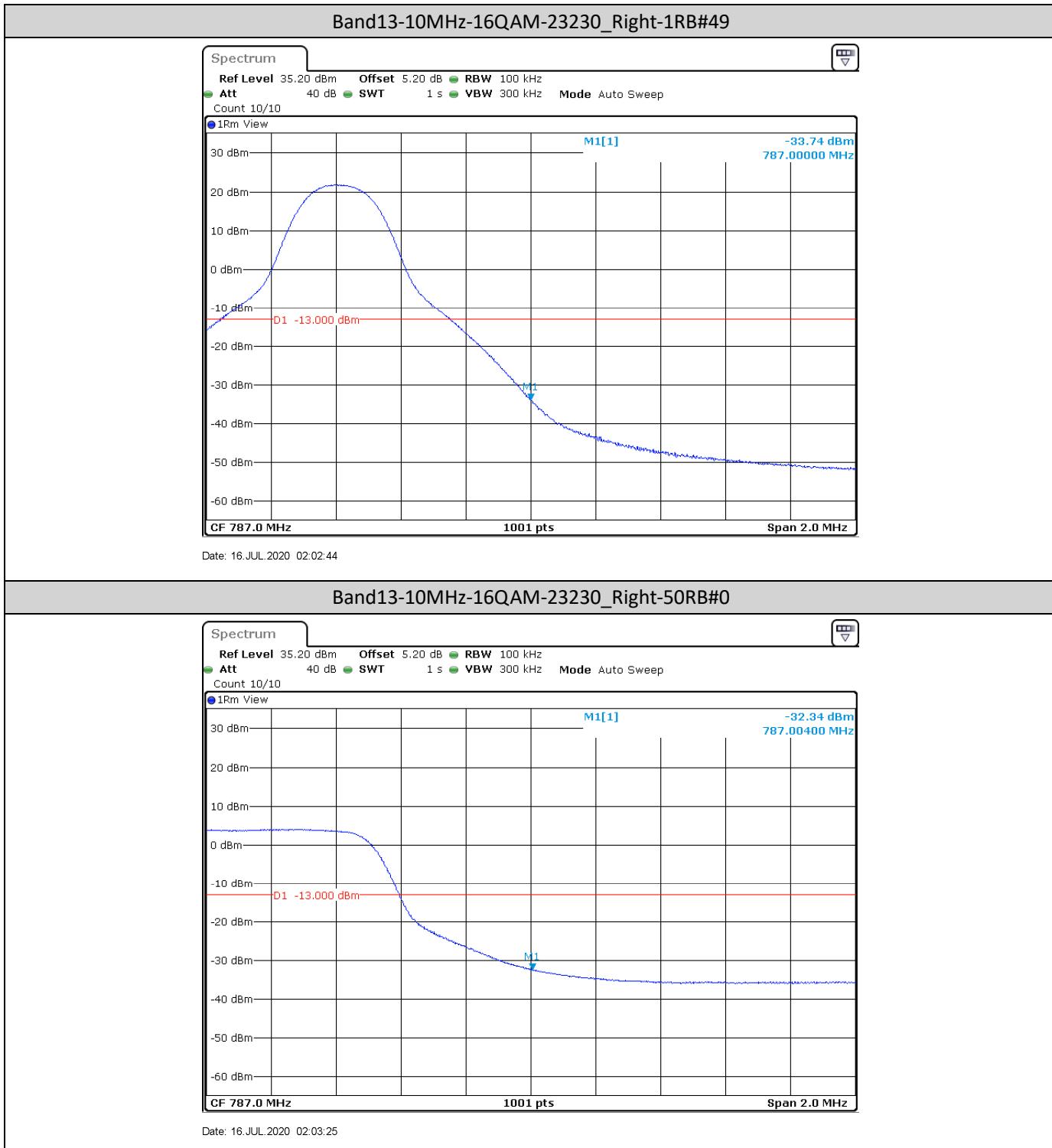
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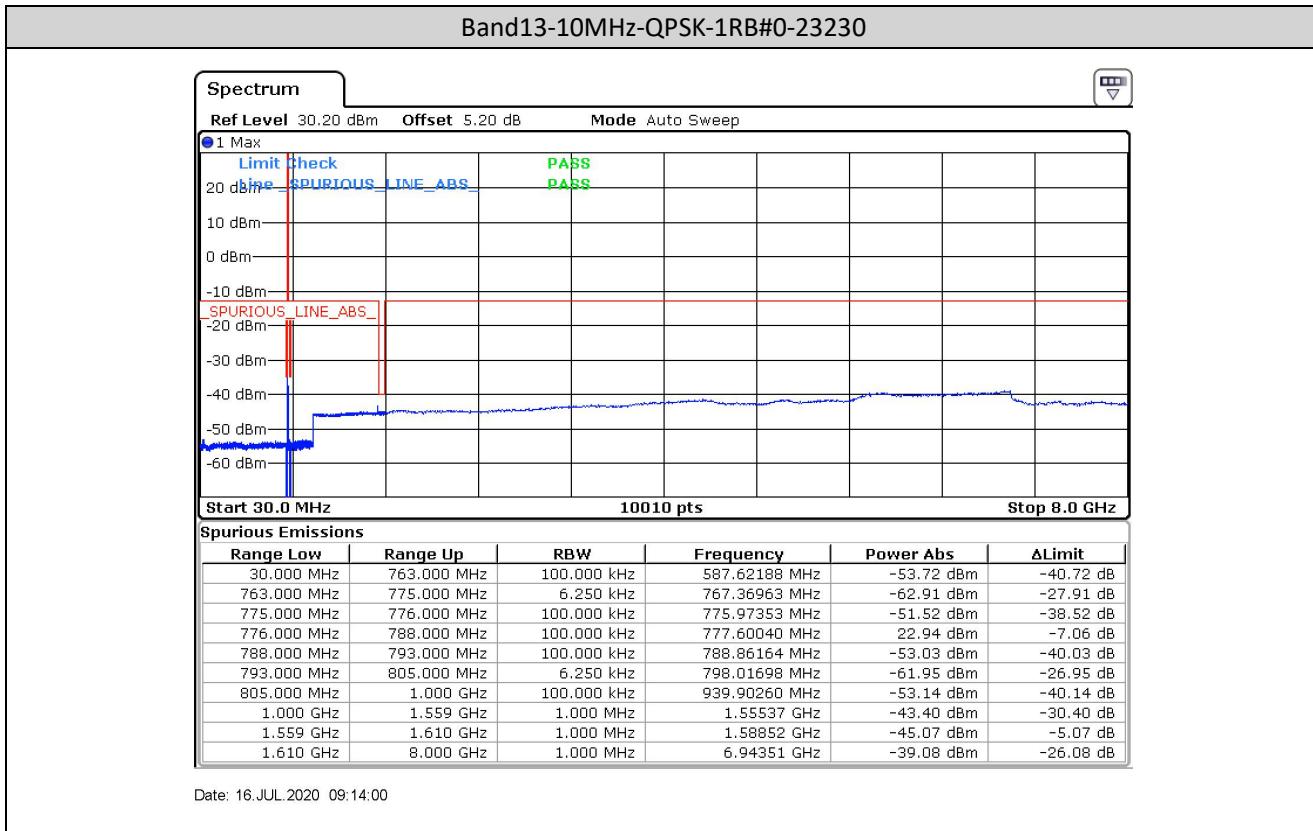
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6. Spurious Emission at Antenna Terminal

Remark1: 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 $< \text{RBW}/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1. Test Plots



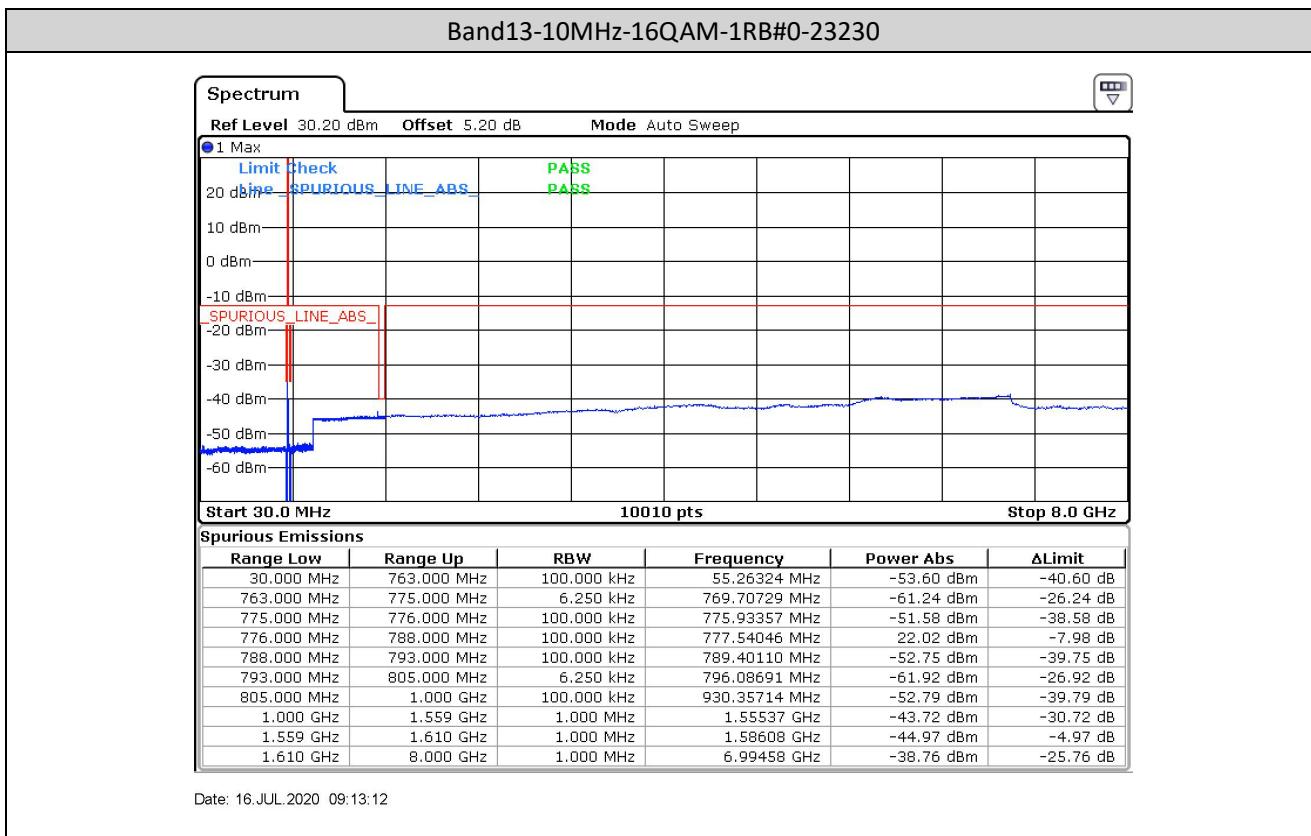
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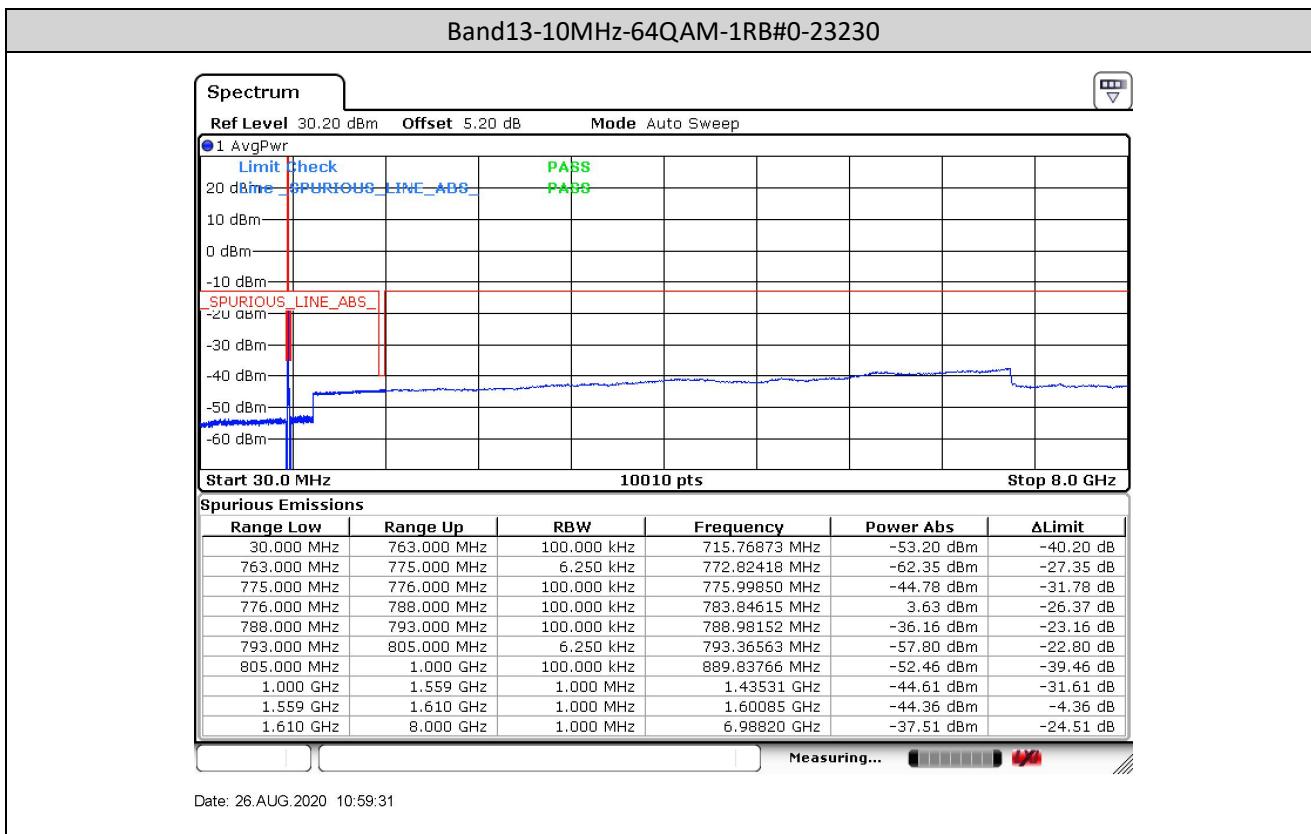
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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 73.7977 | -66.19 | -13.00 | 53.19 | Vertical |
| 373.3002 | -67.75 | -13.00 | 54.75 | Vertical |
| 1699.7399 | -62.20 | -13.00 | 49.20 | Vertical |
| 3000.0000 | -56.42 | -13.00 | 43.42 | Vertical |
| 7448.5779 | -56.07 | -13.00 | 43.07 | Vertical |
| 17994.5998 | -40.37 | -13.00 | 27.37 | Vertical |
| 44.6477 | -64.93 | -13.00 | 51.93 | Horizontal |
| 230.0725 | -69.05 | -13.00 | 56.05 | Horizontal |
| 1554.9110 | -62.47 | -13.00 | 49.47 | Horizontal |
| 2696.3393 | -56.38 | -13.00 | 43.38 | Horizontal |
| 7452.1781 | -56.16 | -13.00 | 43.16 | Horizontal |
| 16399.1360 | -43.70 | -13.00 | 30.70 | Horizontal |

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | VL | NT | 0.00 | 0.000000 | ±2.5 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | VN | NT | 3.30 | 0.004220 | ±2.5 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | VH | NT | 2.80 | 0.003581 | ±2.5 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | VL | NT | 0.70 | 0.000895 | ±2.5 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | VN | NT | 2.20 | 0.002813 | ±2.5 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | VH | NT | -5.10 | -0.006522 | ±2.5 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | VL | NT | -0.10 | -0.000128 | ±2.5 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | VN | NT | 3.70 | 0.004731 | ±2.5 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | VH | NT | -4.30 | -0.005499 | ±2.5 | PASS |

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8.2. Frequency Vs Temperature

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | -30 | 3.80 | 0.004859 | ±2.5 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | -20 | 0.20 | 0.000256 | ±2.5 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 0 | -2.80 | -0.003581 | ±2.5 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 10 | 4.00 | 0.005115 | ±2.5 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 20 | -0.20 | -0.000256 | ±2.5 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 30 | 0.20 | 0.000256 | ±2.5 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 40 | -3.50 | -0.004476 | ±2.5 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 50 | -2.70 | -0.003453 | ±2.5 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | -30 | 1.40 | 0.001790 | ±2.5 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | -20 | -4.60 | -0.005882 | ±2.5 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | 0 | -4.80 | -0.006138 | ±2.5 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | 10 | -3.20 | -0.004092 | ±2.5 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | 20 | -4.40 | -0.005627 | ±2.5 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | 30 | -1.90 | -0.002430 | ±2.5 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | 40 | -3.00 | -0.003836 | ±2.5 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | NV | 50 | -1.80 | -0.002302 | ±2.5 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | -30 | -4.30 | -0.005499 | ±2.5 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | -20 | 0.10 | 0.000128 | ±2.5 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | 0 | 0.80 | 0.001023 | ±2.5 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | 10 | -1.20 | -0.001535 | ±2.5 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | 20 | 2.60 | 0.003325 | ±2.5 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | 30 | -4.20 | -0.005371 | ±2.5 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | 40 | -2.00 | -0.002558 | ±2.5 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | NV | 50 | -4.30 | -0.005499 | ±2.5 | PASS |

The End

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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com