



Appendix B

E-UTRA Band CA_38C



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1 Effective (Isotropic) Radiated Power Output Data

1.1 Test Result for LTE Band CA_38C (Down Ant)

| BAND | Test Mode PCC/SCC | Channel PCC/SCC | RB Configuration | | Modulation PCC&SCC | Result (dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|--------|-------------------|-----------------|------------------|-------|--------------------|--------------|------------|-------------|---------|
| | | | PCC | SCC | | | | | |
| CA_38C | 75RB+75RB | 37825+37975 | 1RB#0 | 0RB#0 | QPSK | 23.09 | 20.60 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 37825+37975 | 16RB#0 | 0RB#0 | QPSK | 22.82 | 20.33 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 37925+38075 | 1RB#0 | 0RB#0 | QPSK | 22.89 | 20.40 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 37925+38075 | 16RB#0 | 0RB#0 | QPSK | 22.85 | 20.36 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 38025+38175 | 1RB#0 | 0RB#0 | QPSK | 22.82 | 20.33 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 38025+38175 | 16RB#0 | 0RB#0 | QPSK | 22.75 | 20.26 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37850+38048 | 1RB#0 | 0RB#0 | QPSK | 22.87 | 20.38 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37850+38048 | 18RB#0 | 0RB#0 | QPSK | 22.77 | 20.28 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37901+38099 | 1RB#0 | 0RB#0 | QPSK | 22.87 | 20.38 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37901+38099 | 18RB#0 | 0RB#0 | QPSK | 22.79 | 20.30 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37952+38150 | 1RB#0 | 0RB#0 | QPSK | 22.85 | 20.36 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37952+38150 | 18RB#0 | 0RB#0 | QPSK | 22.75 | 20.26 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 37825+37975 | 1RB#0 | 0RB#0 | 16QAM | 21.90 | 19.41 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 37825+37975 | 16RB#0 | 0RB#0 | 16QAM | 21.90 | 19.41 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 37925+38075 | 1RB#0 | 0RB#0 | 16QAM | 21.81 | 19.32 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 37925+38075 | 16RB#0 | 0RB#0 | 16QAM | 21.86 | 19.37 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 38025+38175 | 1RB#0 | 0RB#0 | 16QAM | 21.79 | 19.30 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 38025+38175 | 16RB#0 | 0RB#0 | 16QAM | 21.75 | 19.26 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37850+38048 | 1RB#0 | 0RB#0 | 16QAM | 21.87 | 19.38 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37850+38048 | 18RB#0 | 0RB#0 | 16QAM | 21.84 | 19.35 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37901+38099 | 1RB#0 | 0RB#0 | 16QAM | 21.86 | 19.37 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37901+38099 | 18RB#0 | 0RB#0 | 16QAM | 21.86 | 19.37 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37952+38150 | 1RB#0 | 0RB#0 | 16QAM | 21.81 | 19.32 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37952+38150 | 18RB#0 | 0RB#0 | 16QAM | 21.82 | 19.33 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 37825+37975 | 1RB#0 | 0RB#0 | 64QAM | 20.71 | 18.22 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 37825+37975 | 16RB#0 | 0RB#0 | 64QAM | 20.88 | 18.39 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 37925+38075 | 1RB#0 | 0RB#0 | 64QAM | 20.73 | 18.24 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 37925+38075 | 16RB#0 | 0RB#0 | 64QAM | 20.76 | 18.27 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 38025+38175 | 1RB#0 | 0RB#0 | 64QAM | 20.80 | 18.31 | 33.00 | PASS |
| CA_38C | 75RB+75RB | 38025+38175 | 16RB#0 | 0RB#0 | 64QAM | 20.70 | 18.21 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37850+38048 | 1RB#0 | 0RB#0 | 64QAM | 20.87 | 18.38 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37850+38048 | 18RB#0 | 0RB#0 | 64QAM | 20.85 | 18.36 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37901+38099 | 1RB#0 | 0RB#0 | 64QAM | 20.75 | 18.26 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37901+38099 | 18RB#0 | 0RB#0 | 64QAM | 20.73 | 18.24 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37952+38150 | 1RB#0 | 0RB#0 | 64QAM | 20.83 | 18.34 | 33.00 | PASS |
| CA_38C | 100RB+100RB | 37952+38150 | 18RB#0 | 0RB#0 | 64QAM | 20.88 | 18.39 | 33.00 | PASS |



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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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2 Peak-to-Average Ratio

Part I - Test Results

| Test Band | Modulation | Test Mode | Test Channel | PCC RB Config | SCC RB Config | Measured [dB] | Limit [dB] | Verdict |
|-----------|------------|-------------|--------------|---------------|---------------|---------------|------------|---------|
| CA_38C | QPSK | 100RB+100RB | 37850+38048 | 100RB#0 | 100RB#0 | 8.49 | 13.00 | PASS |
| CA_38C | QPSK | 100RB+100RB | 37901+38099 | 100RB#0 | 100RB#0 | 12.70 | 13.00 | PASS |
| CA_38C | QPSK | 100RB+100RB | 37952+38150 | 100RB#0 | 100RB#0 | 6.20 | 13.00 | PASS |
| CA_38C | 16QAM | 100RB+100RB | 37850+38048 | 100RB#0 | 100RB#0 | 8.38 | 13.00 | PASS |
| CA_38C | 16QAM | 100RB+100RB | 37901+38099 | 100RB#0 | 100RB#0 | 6.52 | 13.00 | PASS |
| CA_38C | 16QAM | 100RB+100RB | 37952+38150 | 100RB#0 | 100RB#0 | 6.49 | 13.00 | PASS |
| CA_38C | 64QAM | 100RB+100RB | 37850+38048 | 100RB#0 | 100RB#0 | 8.41 | 13.00 | PASS |
| CA_38C | 64QAM | 100RB+100RB | 37901+38099 | 100RB#0 | 100RB#0 | 8.35 | 13.00 | PASS |
| CA_38C | 64QAM | 100RB+100RB | 37952+38150 | 100RB#0 | 100RB#0 | 8.43 | 13.00 | PASS |

2.1 For LTE



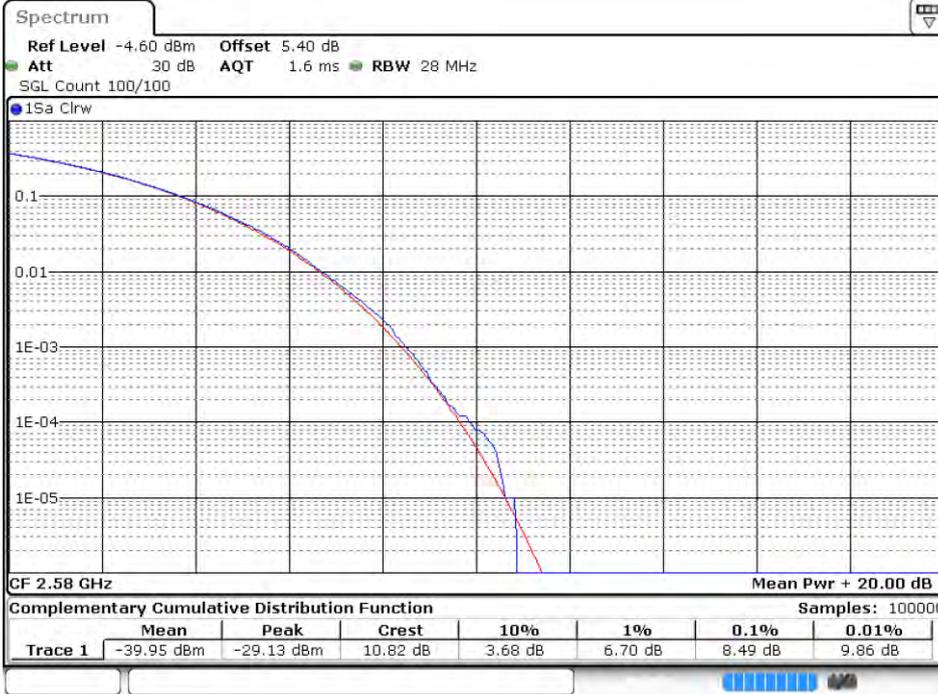
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2.1.1 Test Band = LTE Band CA_38C

CA_38C_100RB+100RB_QPSK_37850+38048_100RB#0+100RB#0



Date: 22.APR.2020 05:17:12

CA_38C_100RB+100RB_QPSK_37901+38099_100RB#0+100RB#0



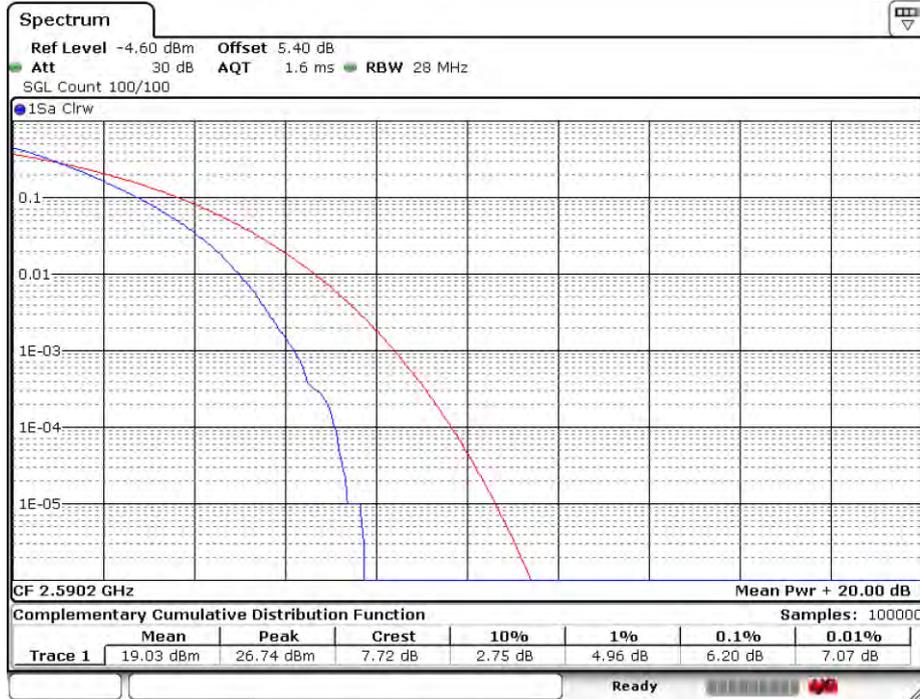
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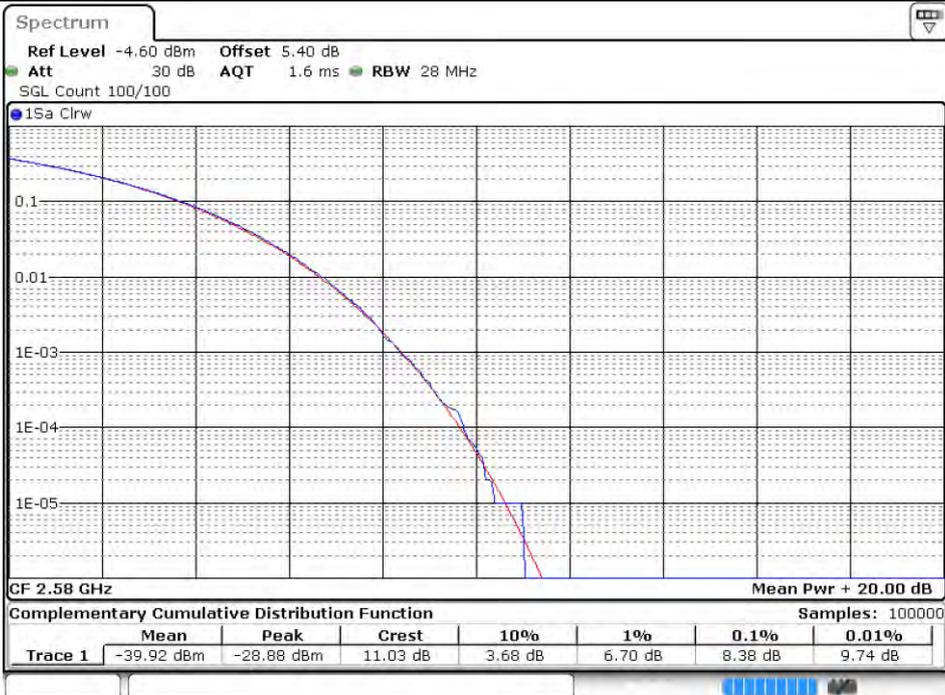
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CA_38C_100RB+100RB_QPSK_37952+38150_100RB#0+100RB#0



Date: 7.MAY.2020 02:44:02

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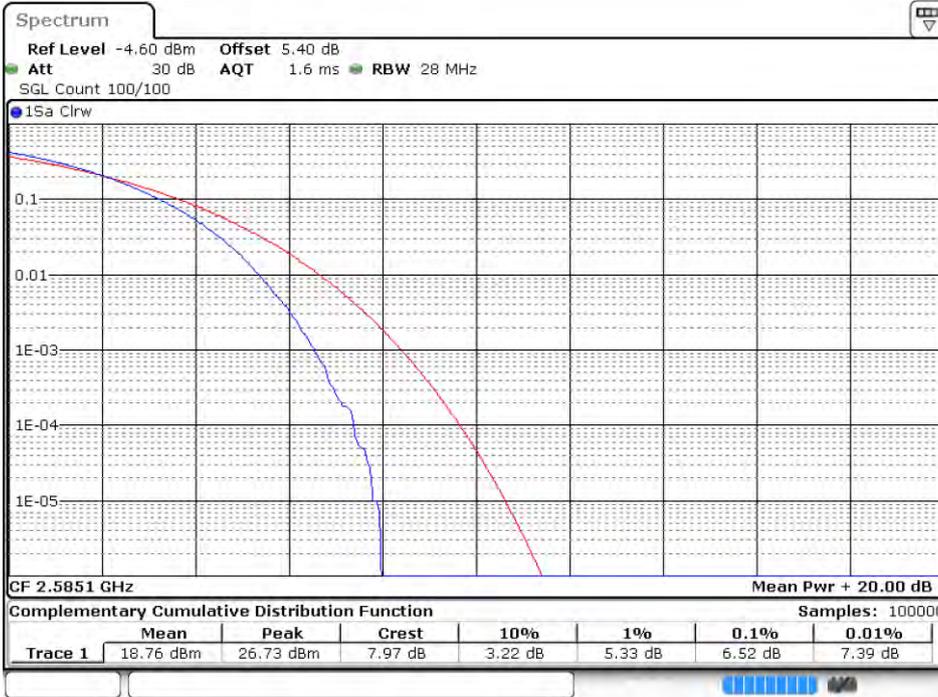


Date: 22.APR.2020 05:17:20





CA_38C_100RB+100RB_16QAM_37901+38099_100RB#0+100RB#0



Date: 22.APR.2020 05:17:36

CA_38C_100RB+100RB_16QAM_37952+38150_100RB#0+100RB#0



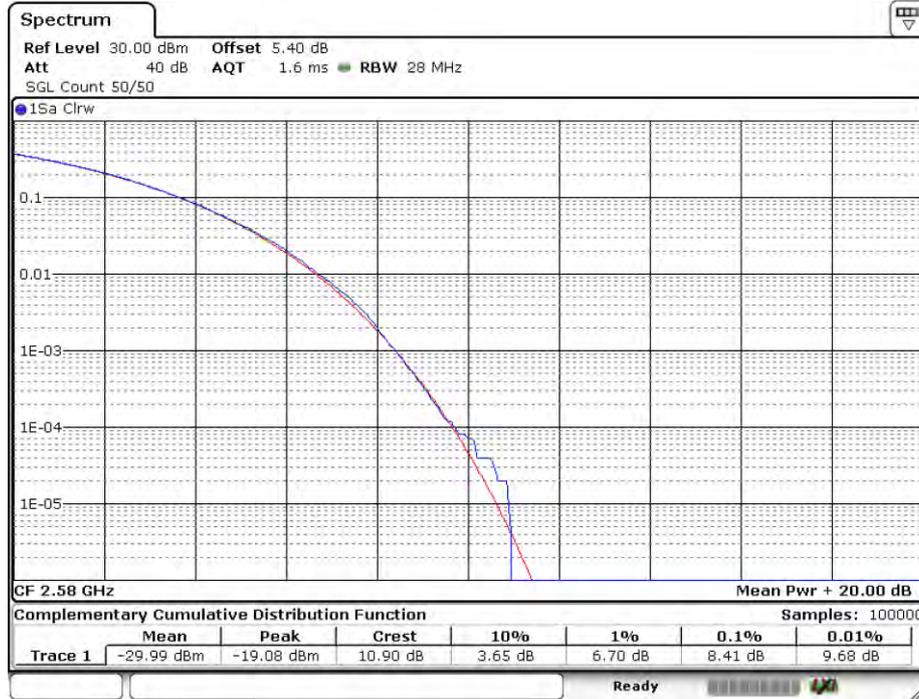
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CA_38C_100RB+100RB_64QAM_37850+38048_100RB#0+100RB#0



Date: 5.MAY.2020 12:37:03

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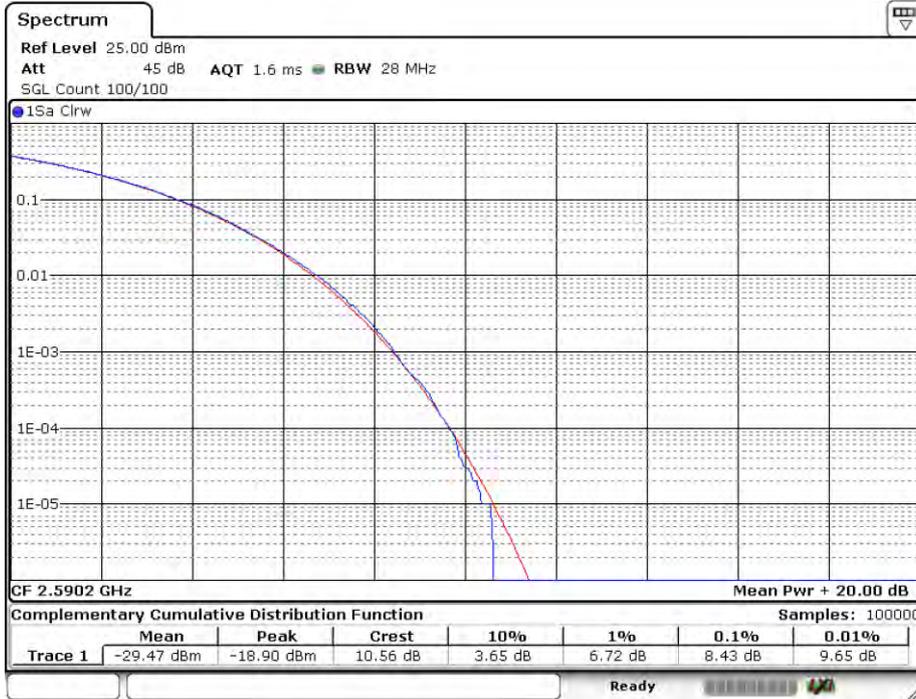


Date: 22.APR.2020 05:17:40





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Date: 5.MAY.2020 12:41:24



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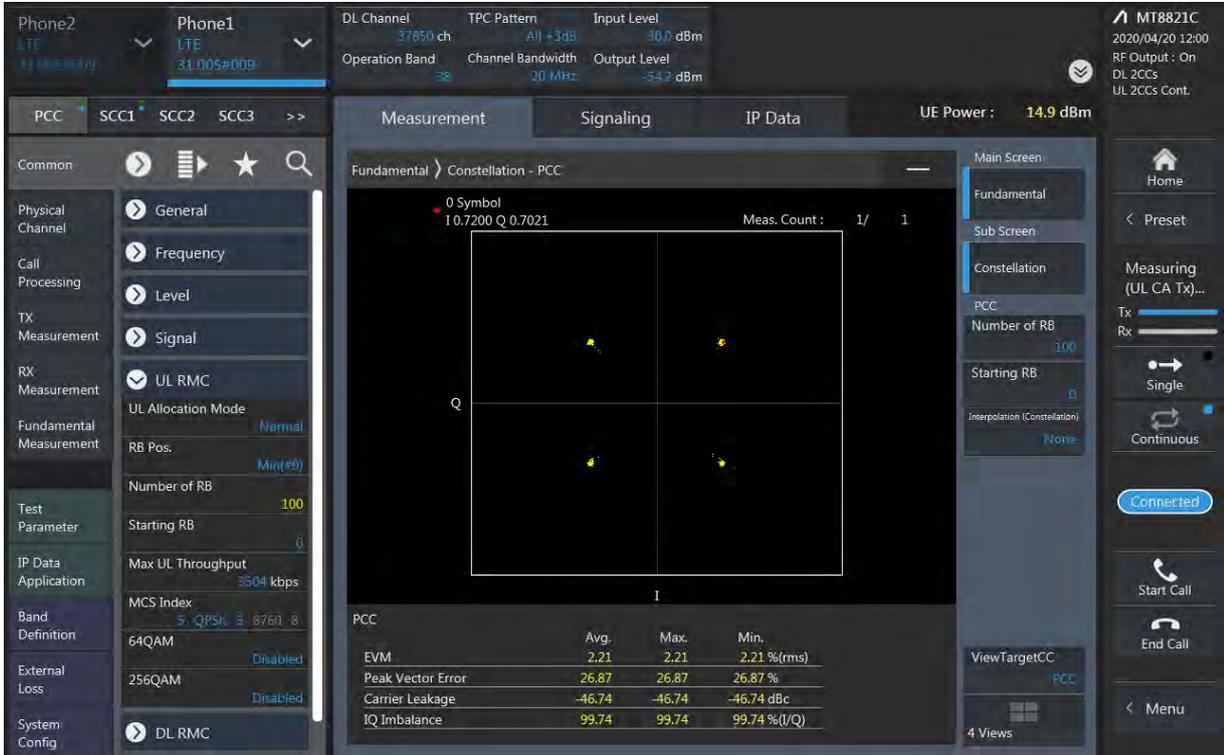
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE Band CA_38C

3.1.1.1 Test Mode = LTE /QPSK 100RB+100RB

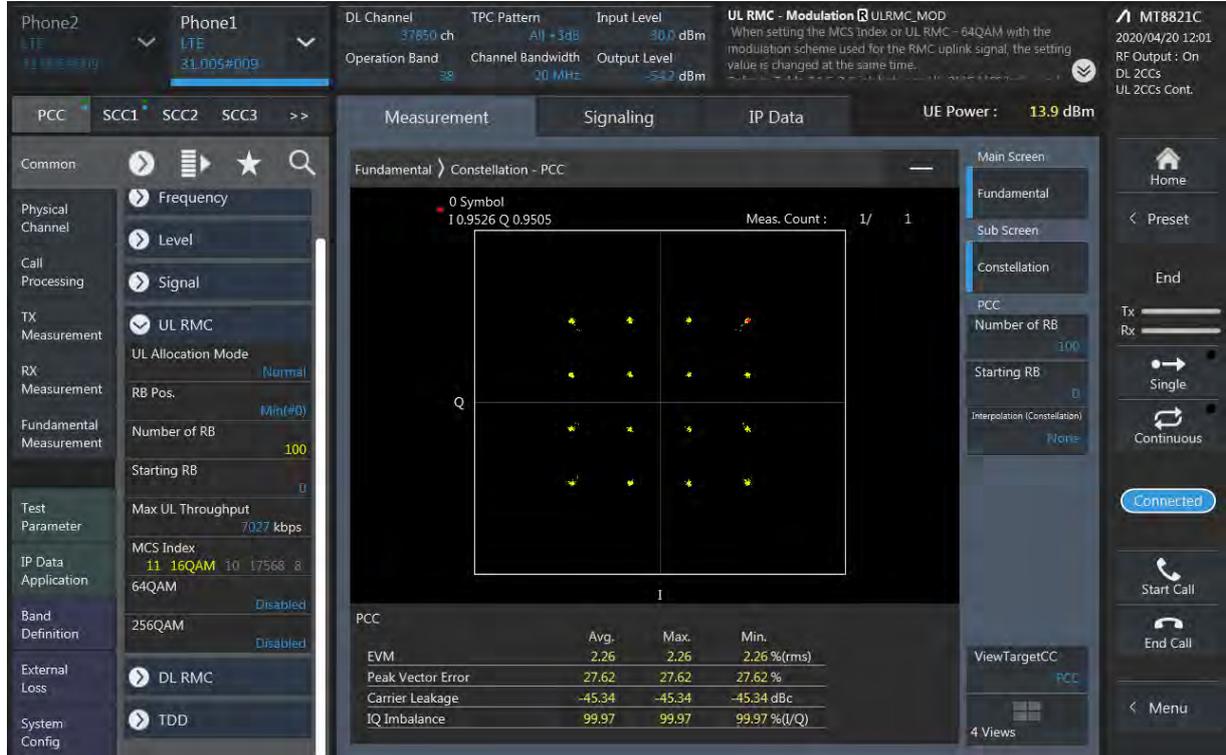
3.1.1.1.1 Test Channel = 37850+38048





3.1.1.2 Test Mode = LTE /16QAM 100RB+100RB

3.1.1.2.1 Test Channel =37850+38048



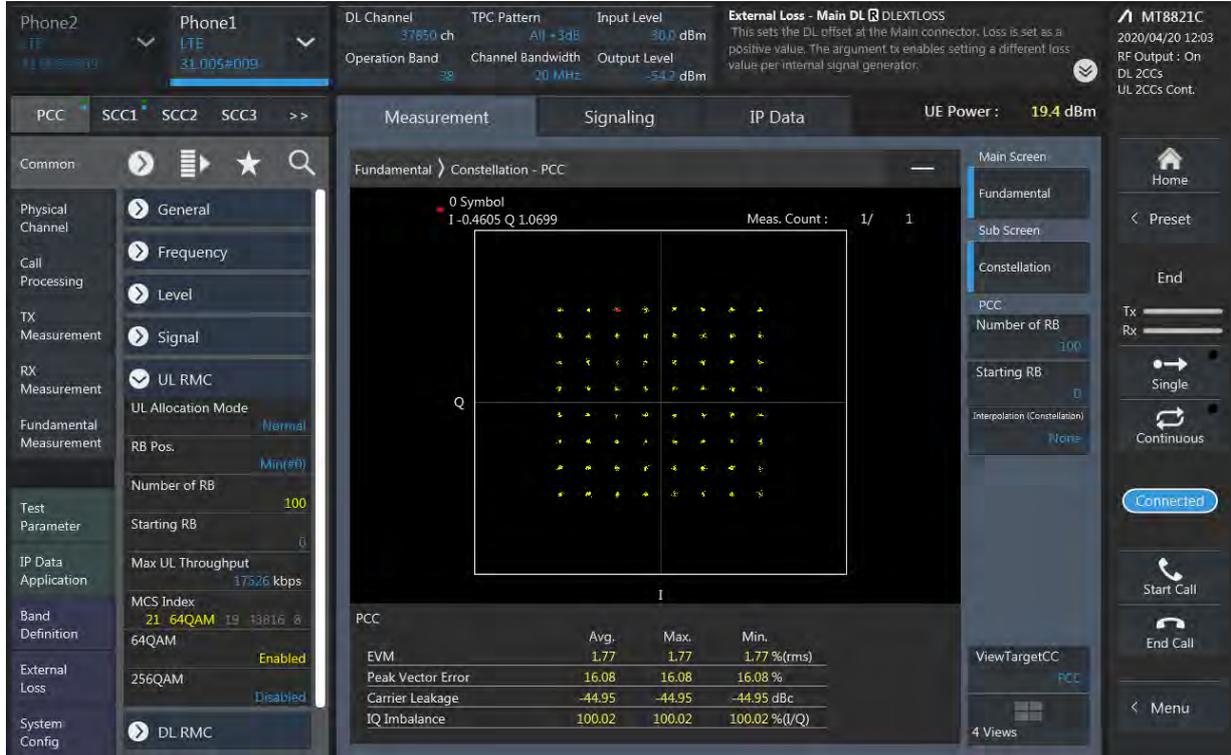
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3.1.1.3 Test Mode = LTE /64QAM 100RB+100RB

3.1.1.3.1 Test Channel = 37850+38048



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4 26dB Bandwidth and Occupied Bandwidth

| Test Band | Modulation PCC&SCC | Test Mode PCC/SCC | Test Channel PCC/SCC | PCC RB | SCC RB | OBW [MHz] | EBW [MHz] | Verdict |
|-----------|--------------------|-------------------|----------------------|---------|---------|-----------|-----------|---------|
| CA_38C | QPSK | 75RB+75RB | 37825+37975 | 75RB#0 | 75RB#0 | 28.22 | 29.04 | PASS |
| CA_38C | QPSK | 75RB+75RB | 37925+38075 | 75RB#0 | 75RB#0 | 28.40 | 29.01 | PASS |
| CA_38C | QPSK | 75RB+75RB | 38025+38175 | 75RB#0 | 75RB#0 | 28.36 | 29.12 | PASS |
| CA_38C | 16QAM | 75RB+75RB | 37825+37975 | 75RB#0 | 75RB#0 | 28.34 | 29.08 | PASS |
| CA_38C | 16QAM | 75RB+75RB | 37925+38075 | 75RB#0 | 75RB#0 | 28.36 | 29.09 | PASS |
| CA_38C | 16QAM | 75RB+75RB | 38025+38175 | 75RB#0 | 75RB#0 | 28.34 | 29.09 | PASS |
| CA_38C | 64QAM | 75RB+75RB | 37825+37975 | 75RB#0 | 75RB#0 | 28.36 | 29.09 | PASS |
| CA_38C | 64QAM | 75RB+75RB | 37925+38075 | 75RB#0 | 75RB#0 | 28.36 | 29.07 | PASS |
| CA_38C | 64QAM | 75RB+75RB | 38025+38175 | 75RB#0 | 75RB#0 | 28.36 | 29.08 | PASS |
| CA_38C | QPSK | 100RB+100RB | 37850+38048 | 100RB#0 | 100RB#0 | 37.37 | 39.25 | PASS |
| CA_38C | QPSK | 100RB+100RB | 37901+38099 | 100RB#0 | 100RB#0 | 37.35 | 39.19 | PASS |
| CA_38C | QPSK | 100RB+100RB | 37952+38150 | 100RB#0 | 100RB#0 | 37.39 | 39.27 | PASS |
| CA_38C | 16QAM | 100RB+100RB | 37850+38048 | 100RB#0 | 100RB#0 | 37.73 | 38.77 | PASS |
| CA_38C | 16QAM | 100RB+100RB | 37901+38099 | 100RB#0 | 100RB#0 | 37.69 | 39.09 | PASS |
| CA_38C | 16QAM | 100RB+100RB | 37952+38150 | 100RB#0 | 100RB#0 | 37.71 | 38.73 | PASS |
| CA_38C | 64QAM | 100RB+100RB | 37850+38048 | 100RB#0 | 100RB#0 | 37.73 | 38.71 | PASS |
| CA_38C | 64QAM | 100RB+100RB | 37901+38099 | 100RB#0 | 100RB#0 | 37.65 | 38.55 | PASS |
| CA_38C | 64QAM | 100RB+100RB | 37952+38150 | 100RB#0 | 100RB#0 | 37.69 | 38.71 | PASS |

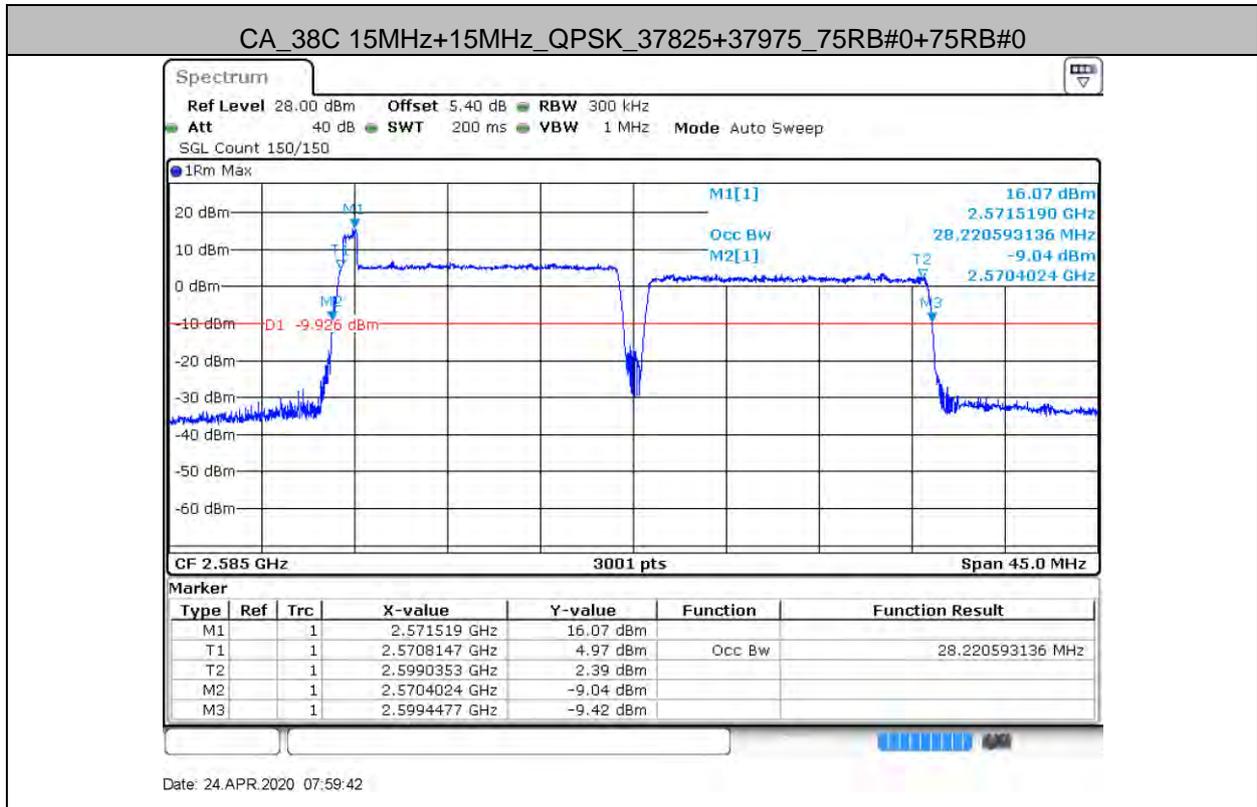


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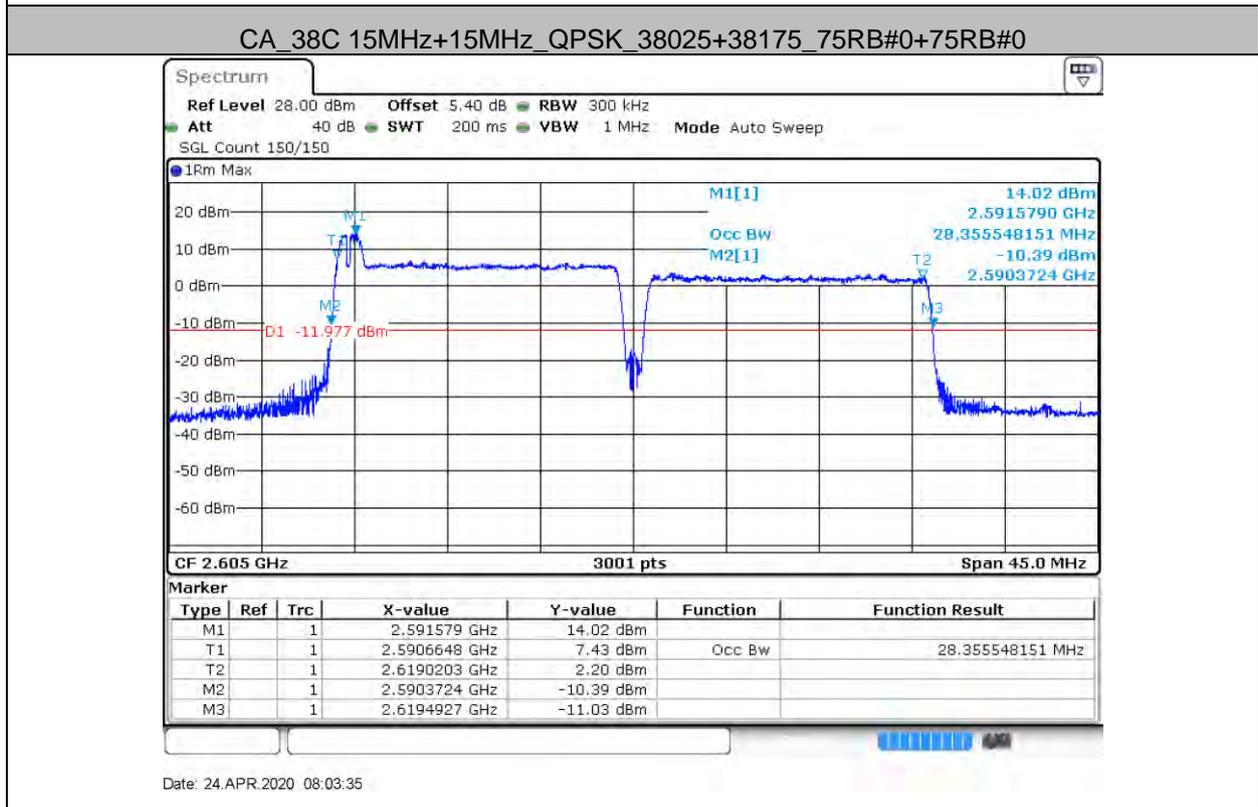
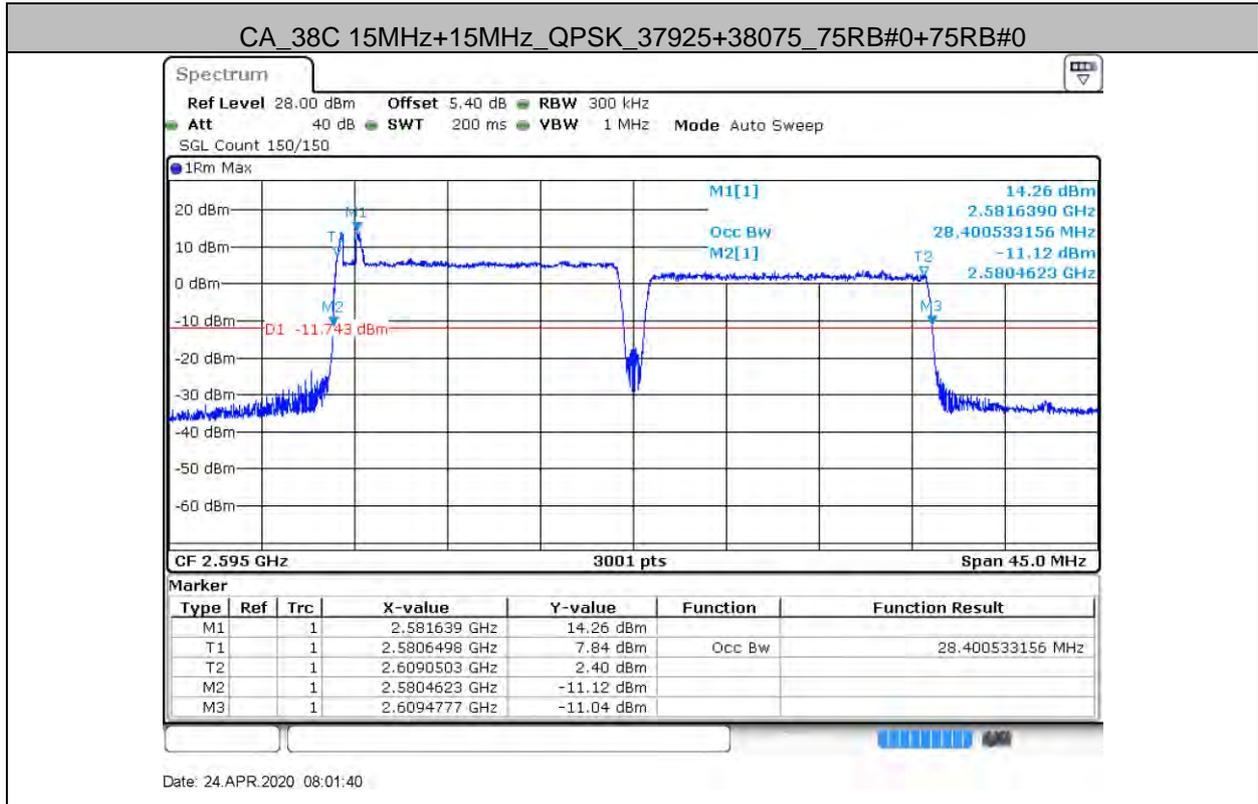
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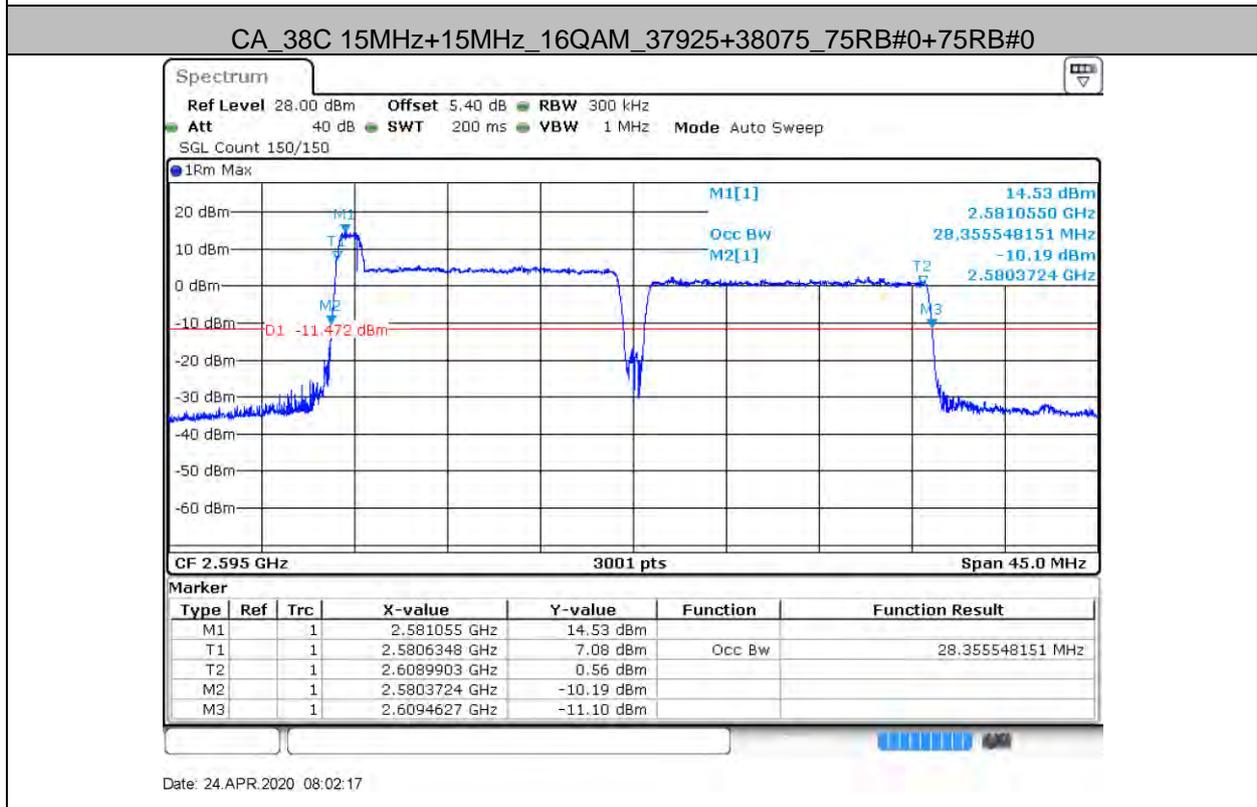
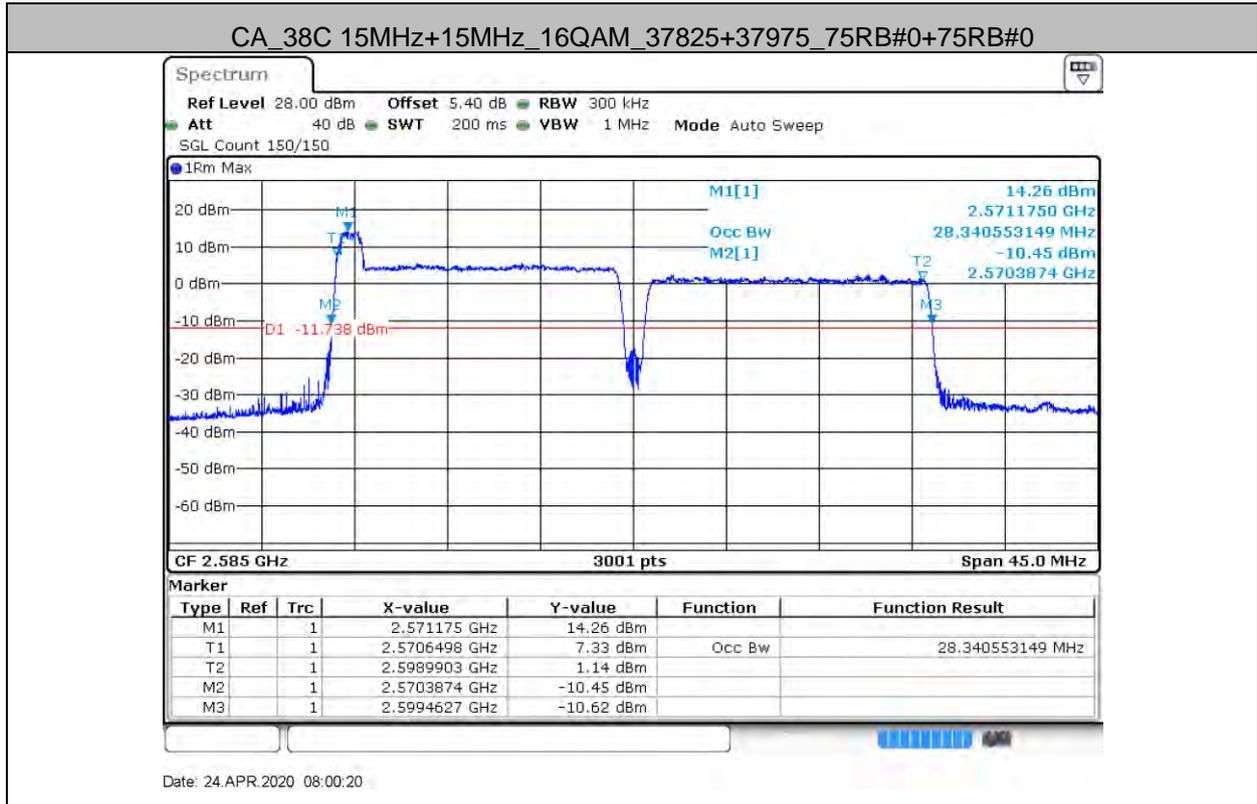
4.1.1 Test Band = LTE Band CA_38C



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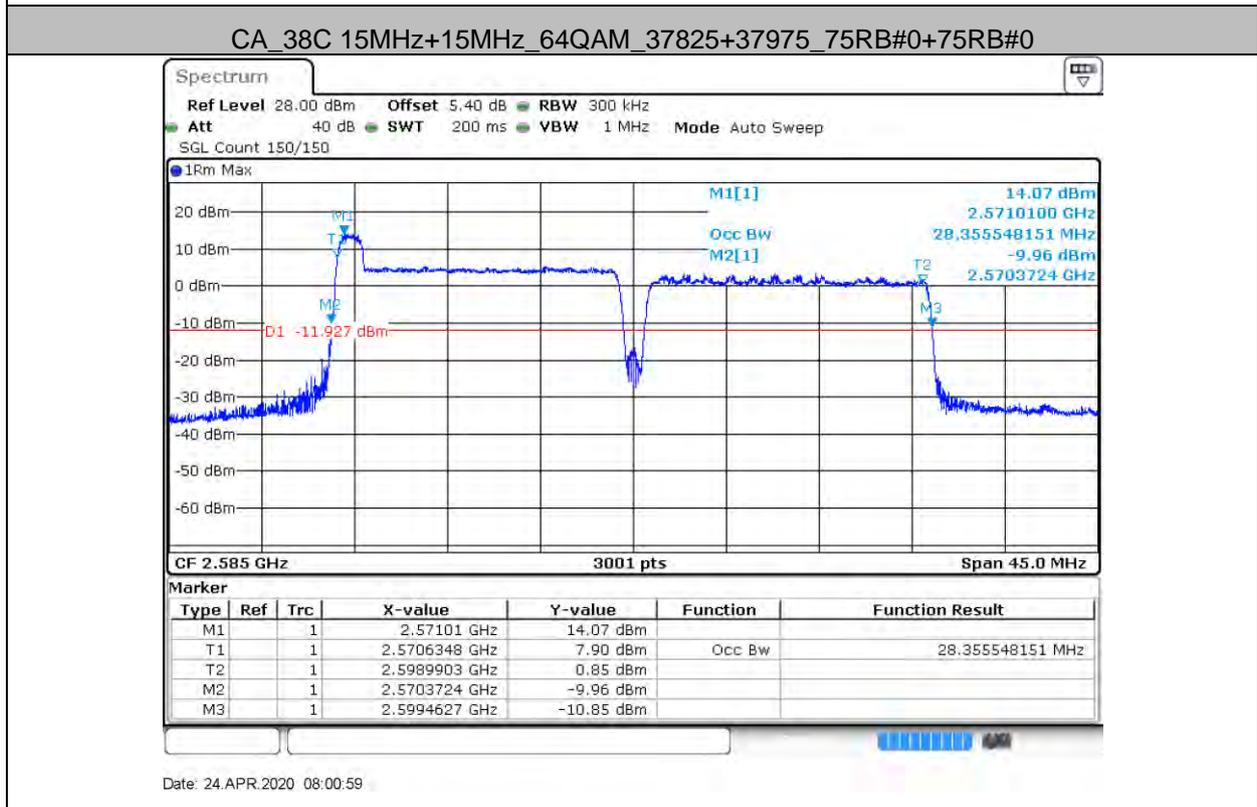
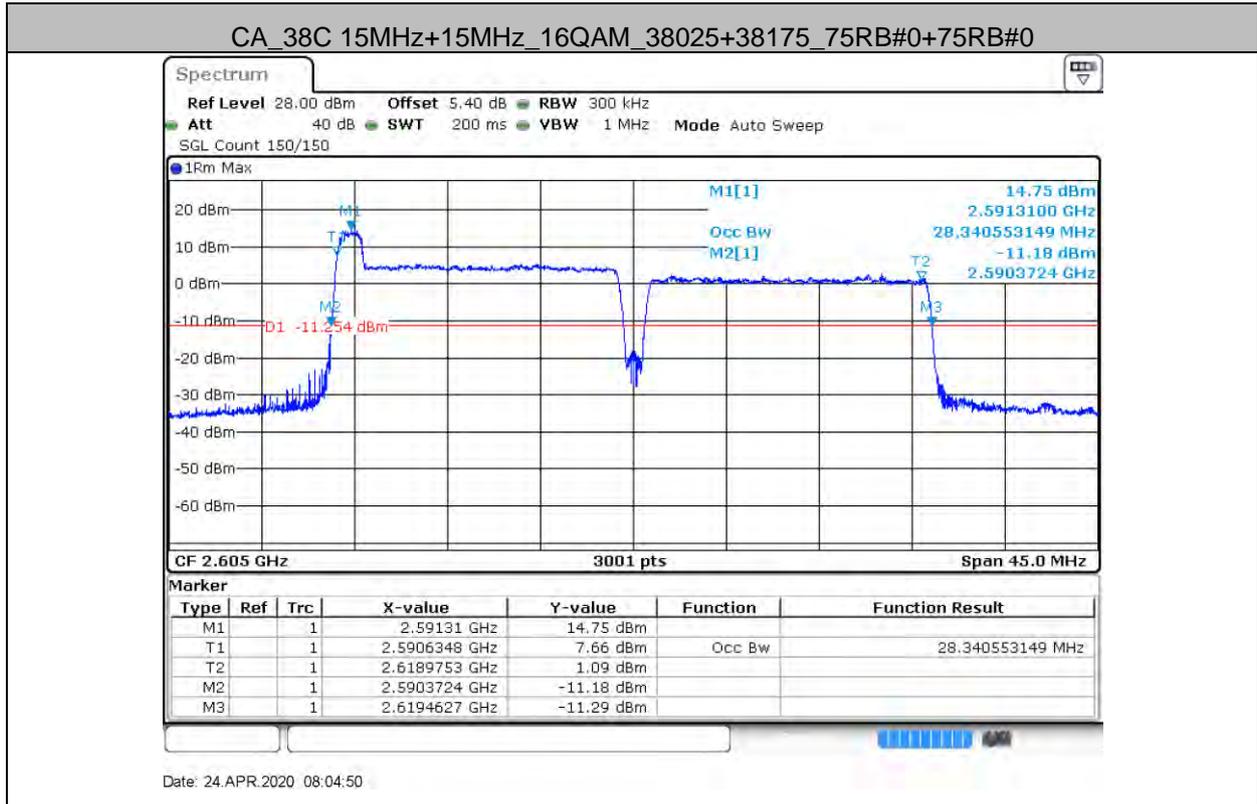




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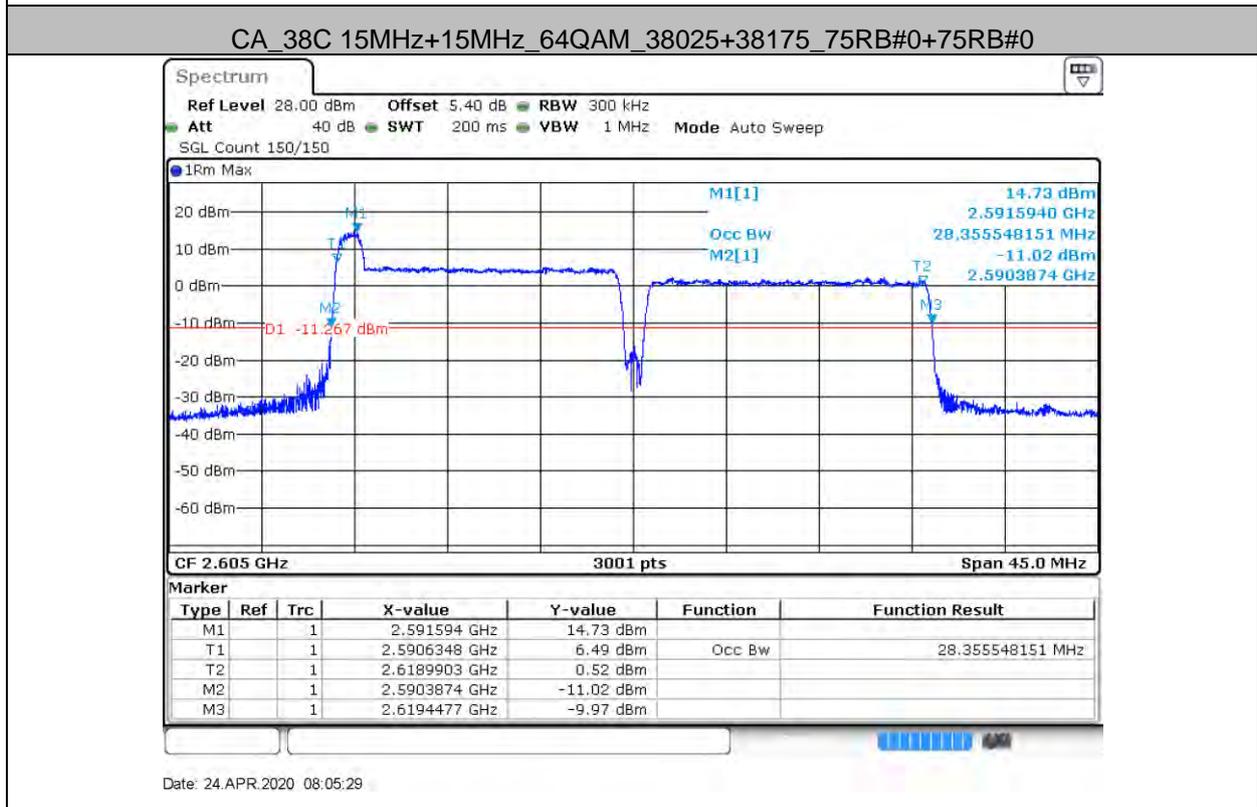
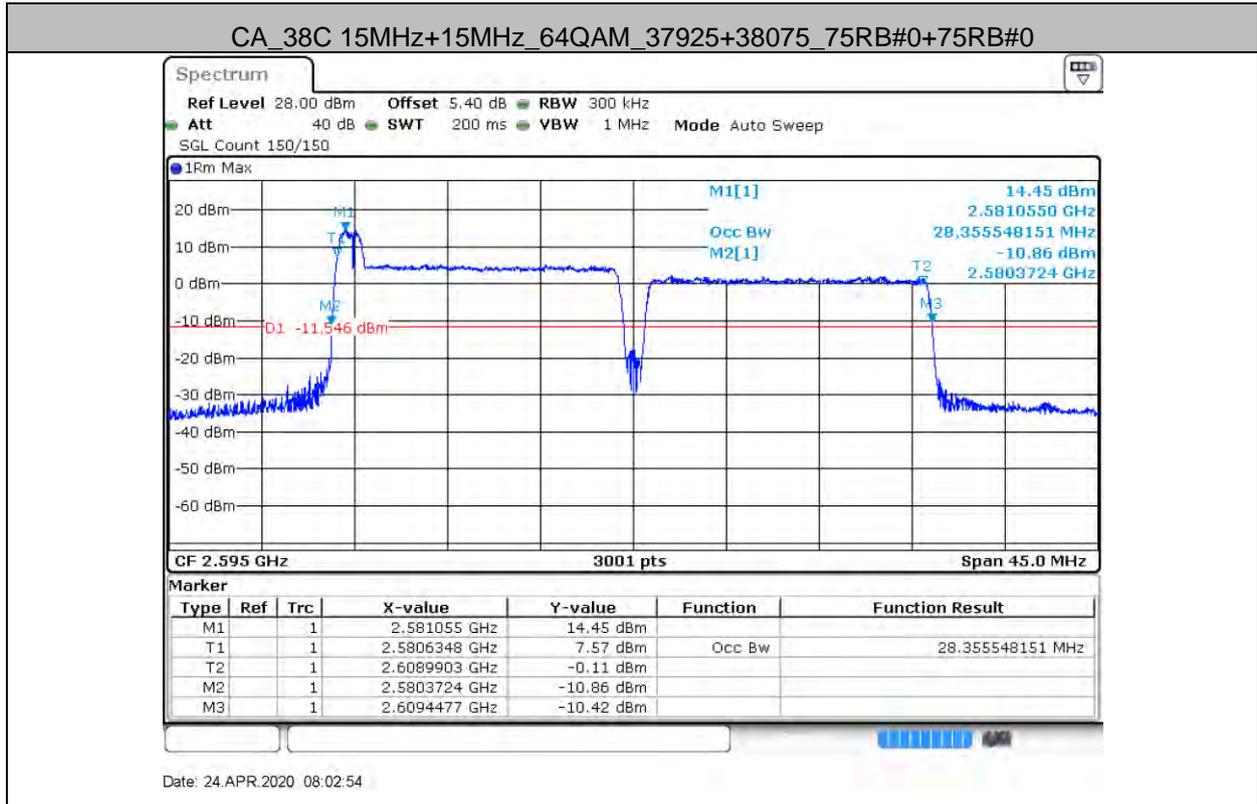
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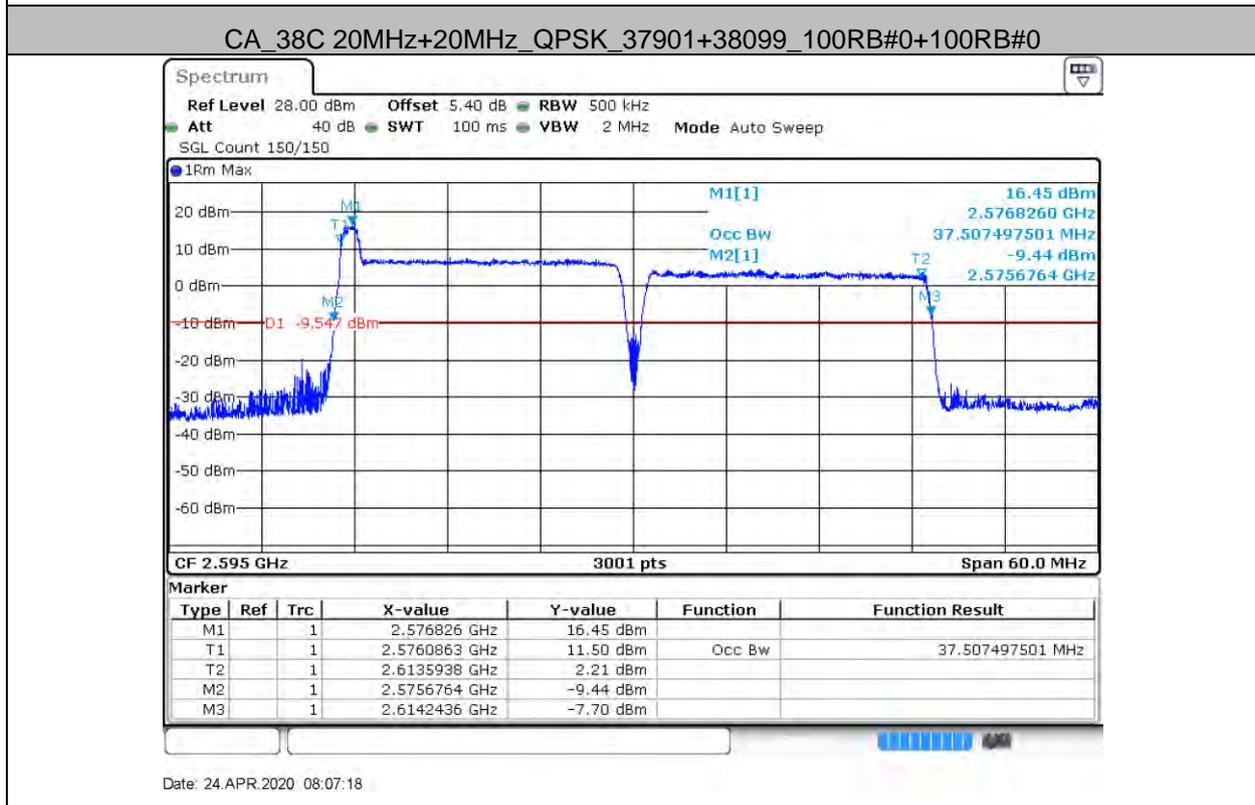
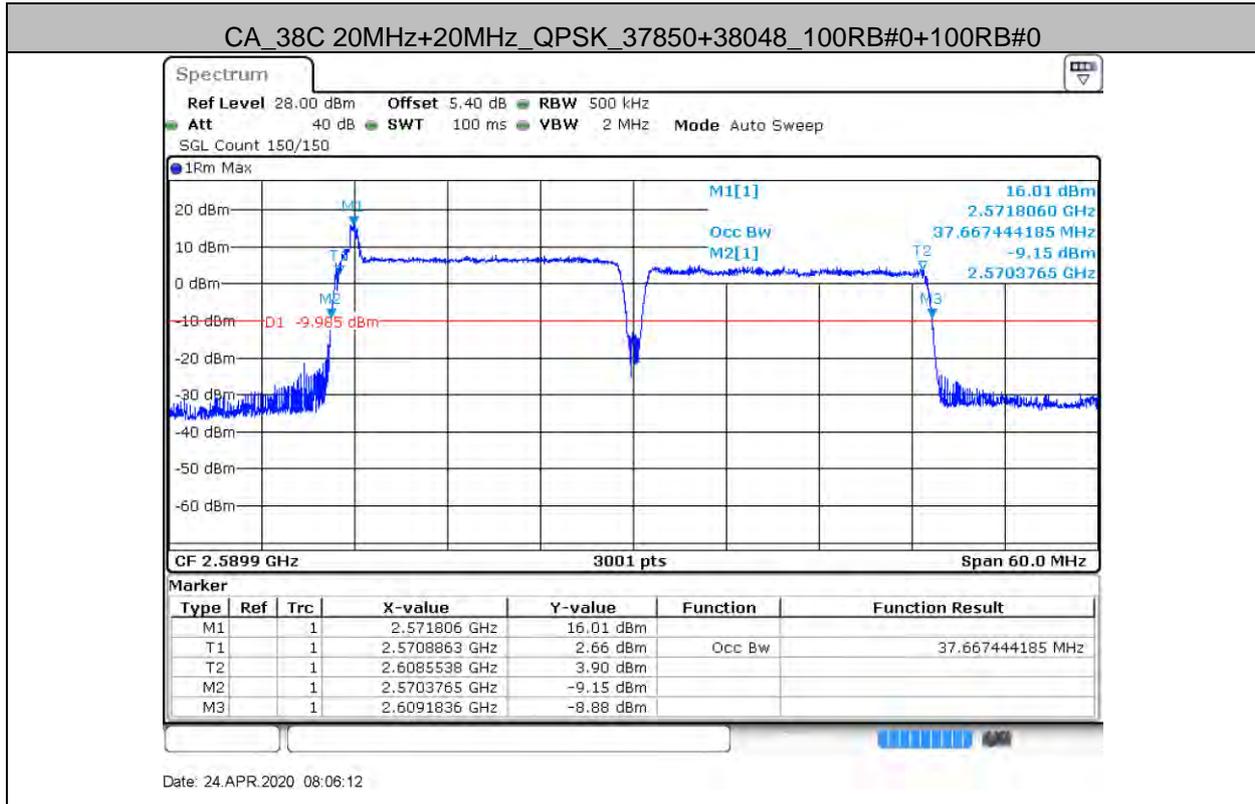


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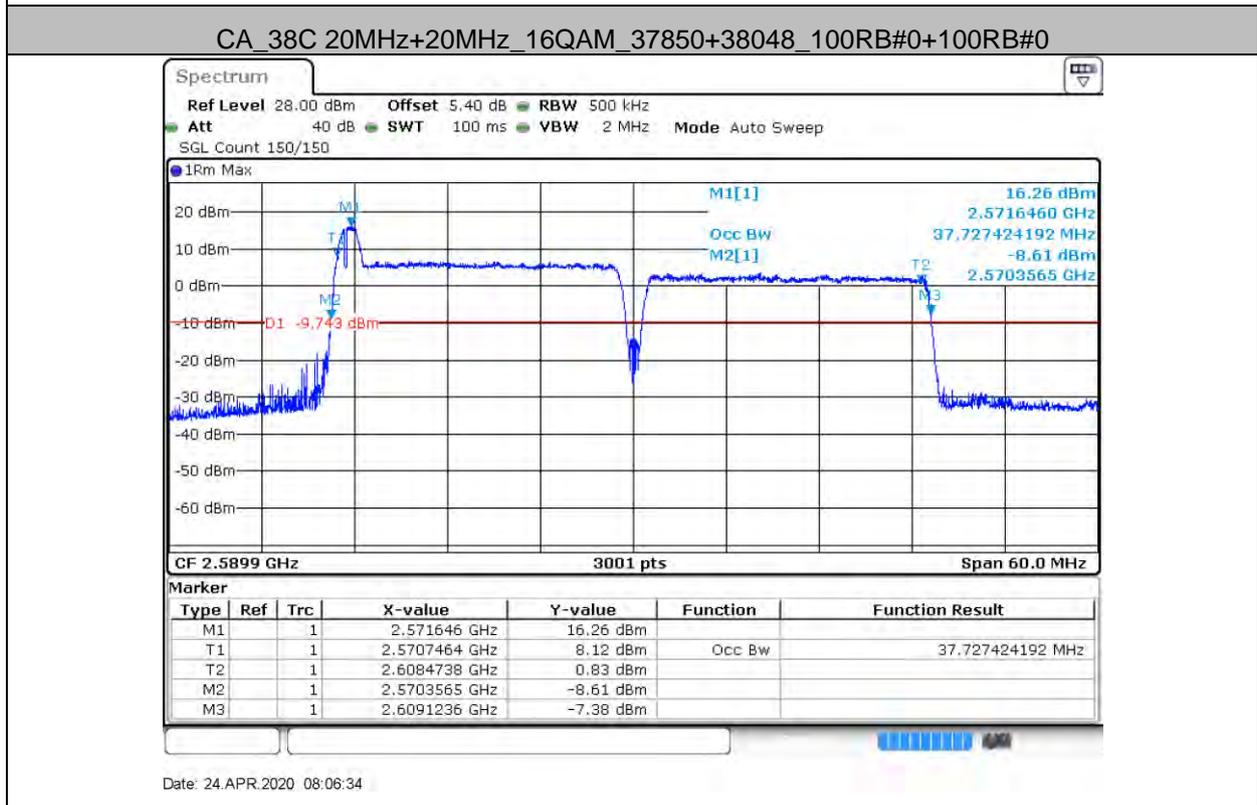
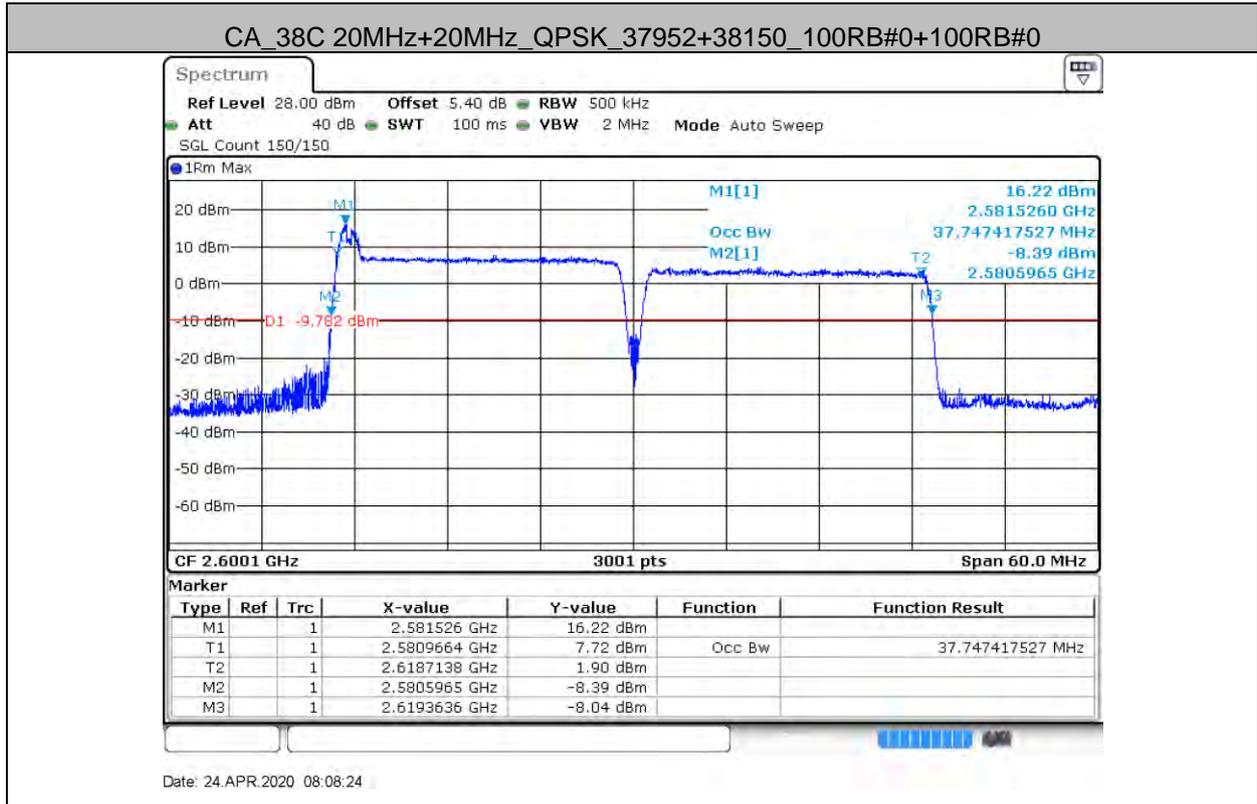




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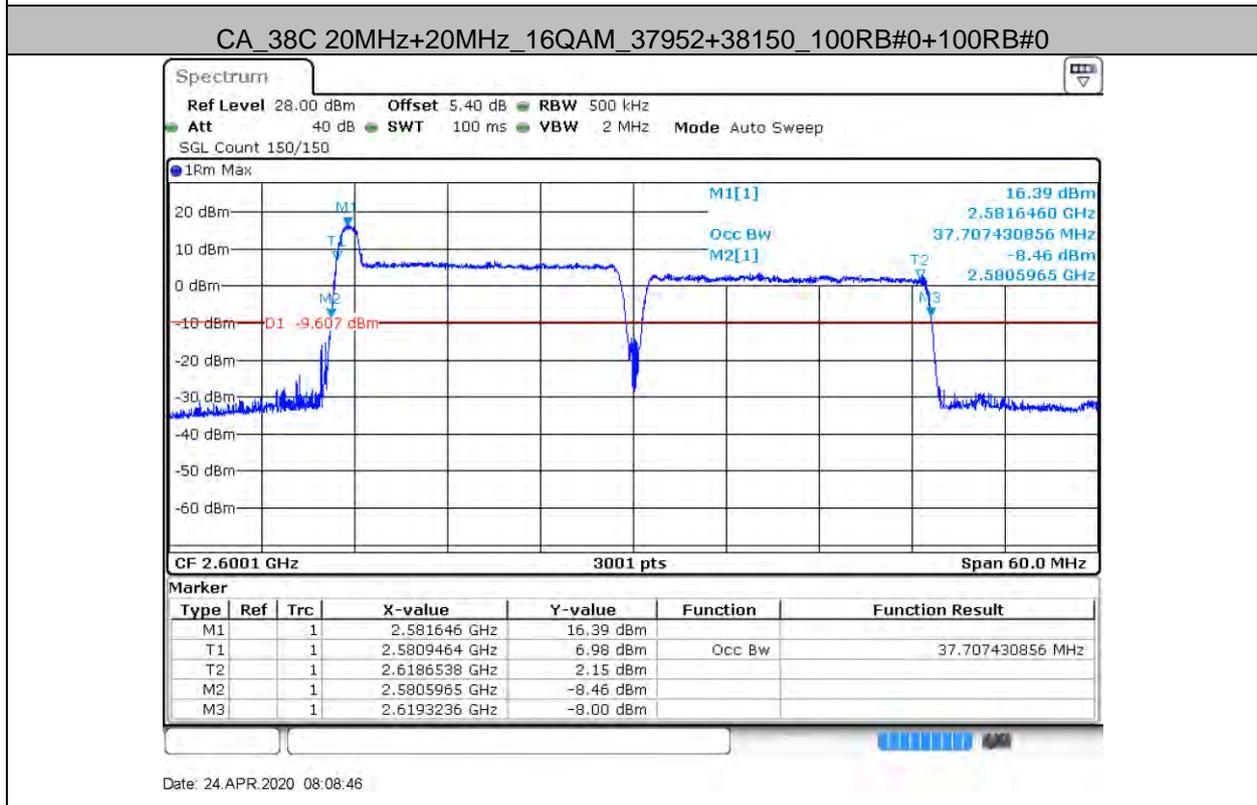
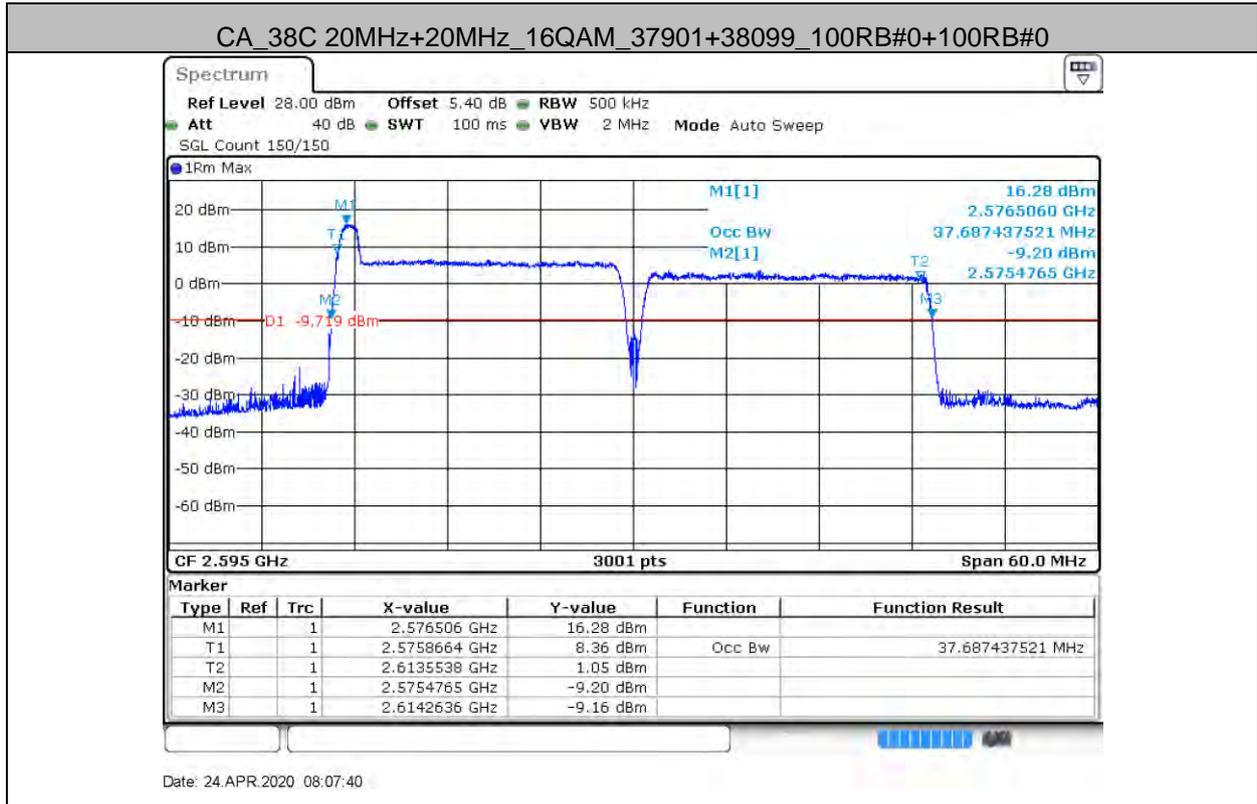
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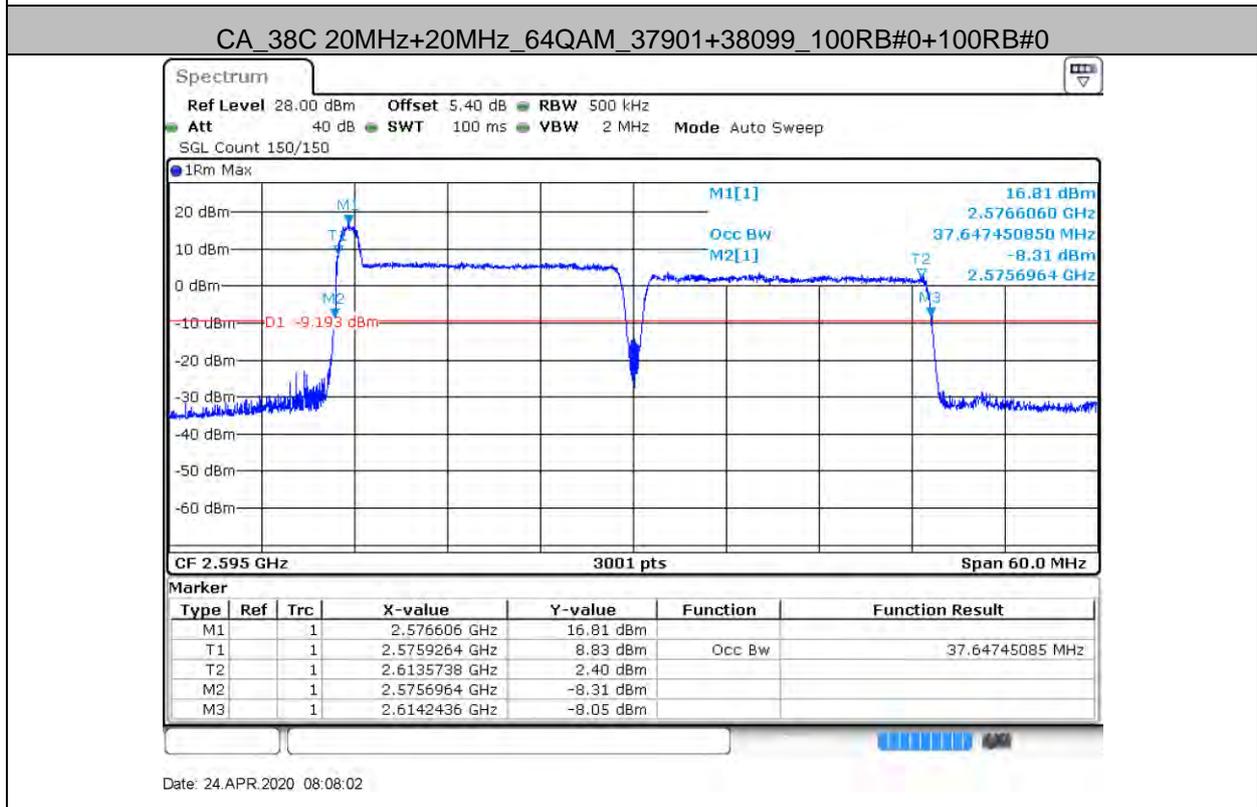
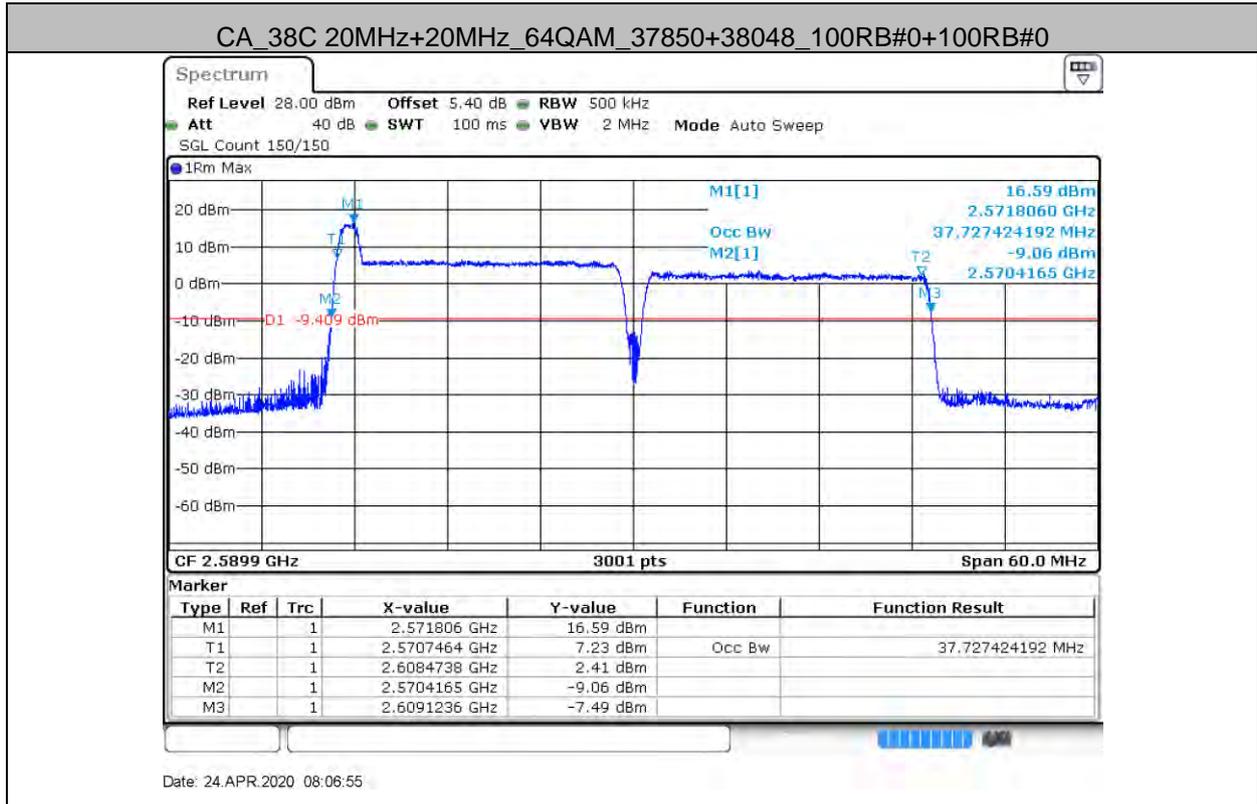
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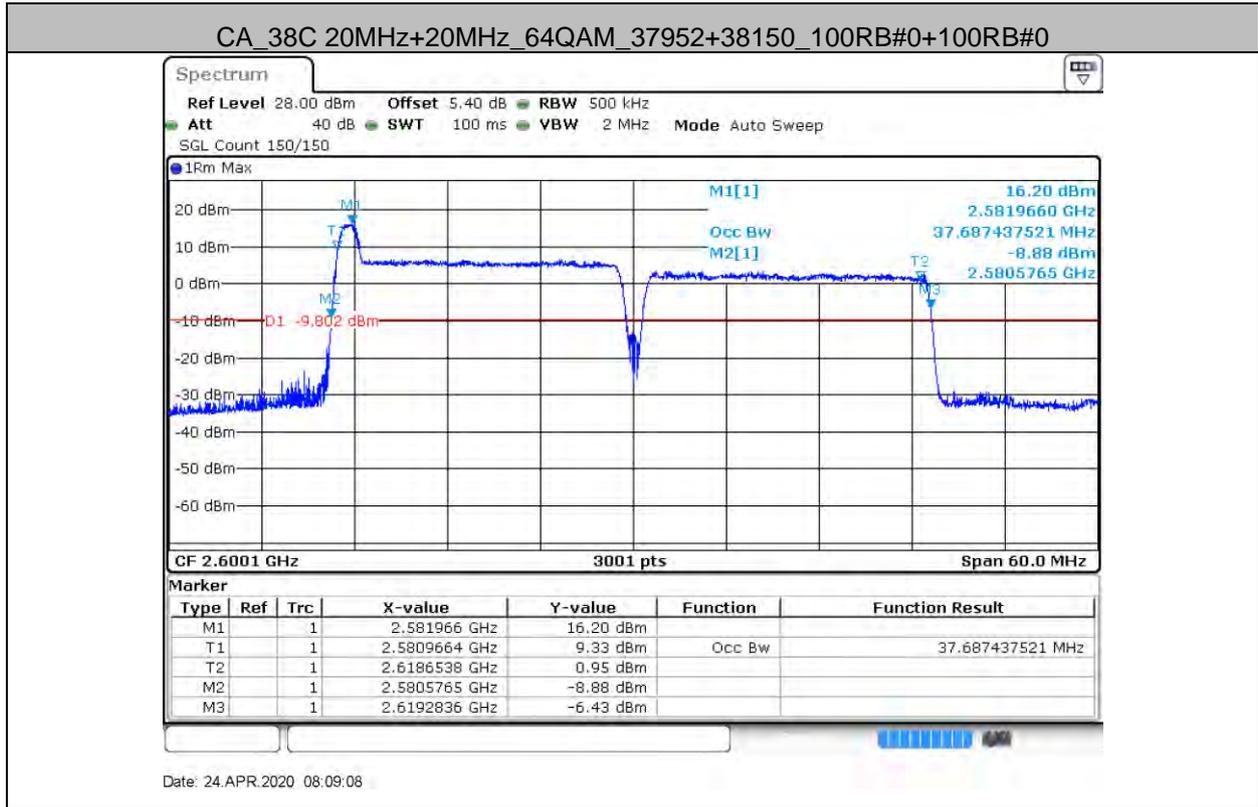


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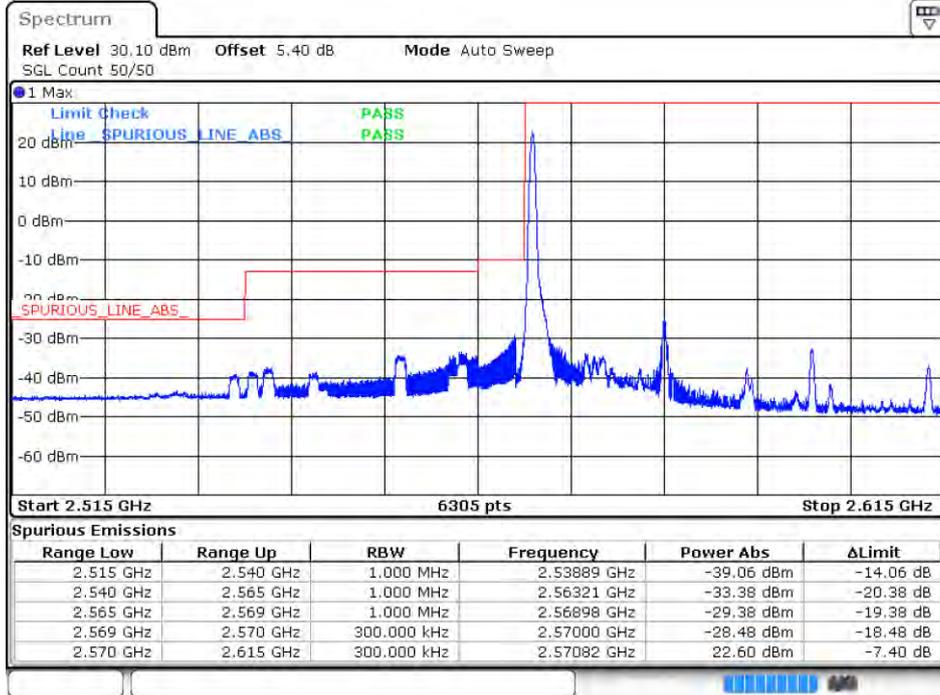


5 Band Edges Compliance

5.1 For LTE

5.1.1 Test Band = LTE Band CA_38C

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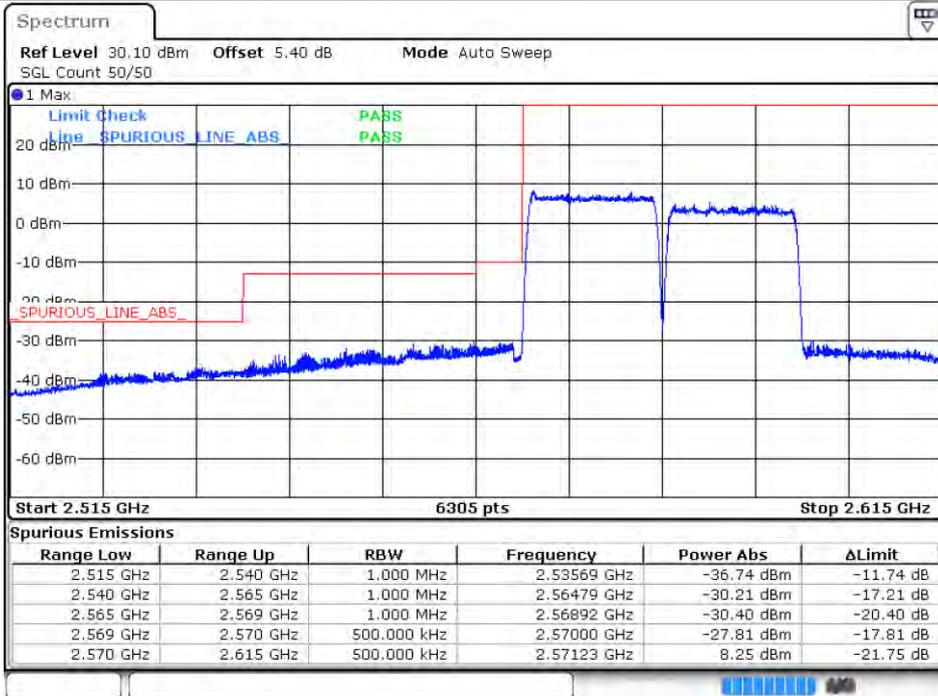


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| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|-----------|-----------|-------------|-------------|------------|-----------|
| 2.515 GHz | 2.540 GHz | 1.000 MHz | 2.53889 GHz | -39.06 dBm | -14.06 dB |
| 2.540 GHz | 2.565 GHz | 1.000 MHz | 2.56321 GHz | -33.38 dBm | -20.38 dB |
| 2.565 GHz | 2.569 GHz | 1.000 MHz | 2.56898 GHz | -29.38 dBm | -19.38 dB |
| 2.569 GHz | 2.570 GHz | 300.000 kHz | 2.57000 GHz | -28.48 dBm | -18.48 dB |
| 2.570 GHz | 2.615 GHz | 300.000 kHz | 2.57082 GHz | 22.60 dBm | -7.40 dB |

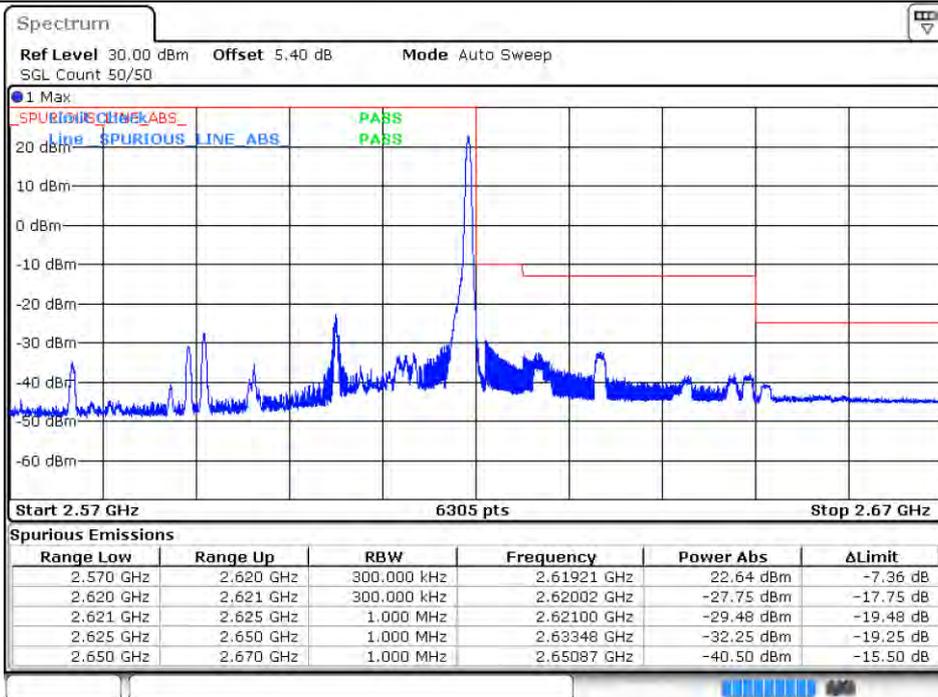


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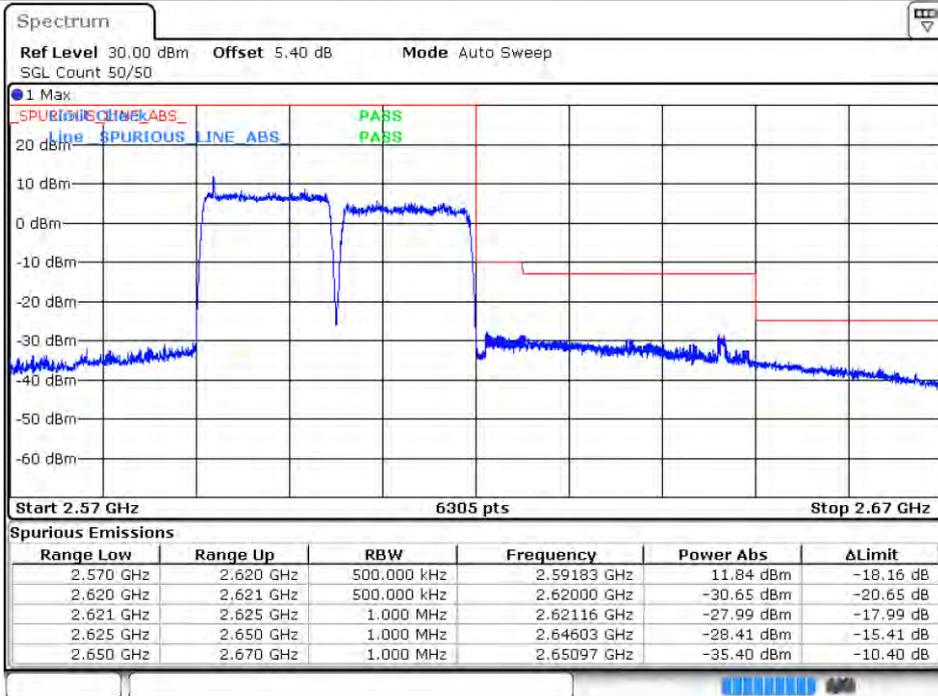


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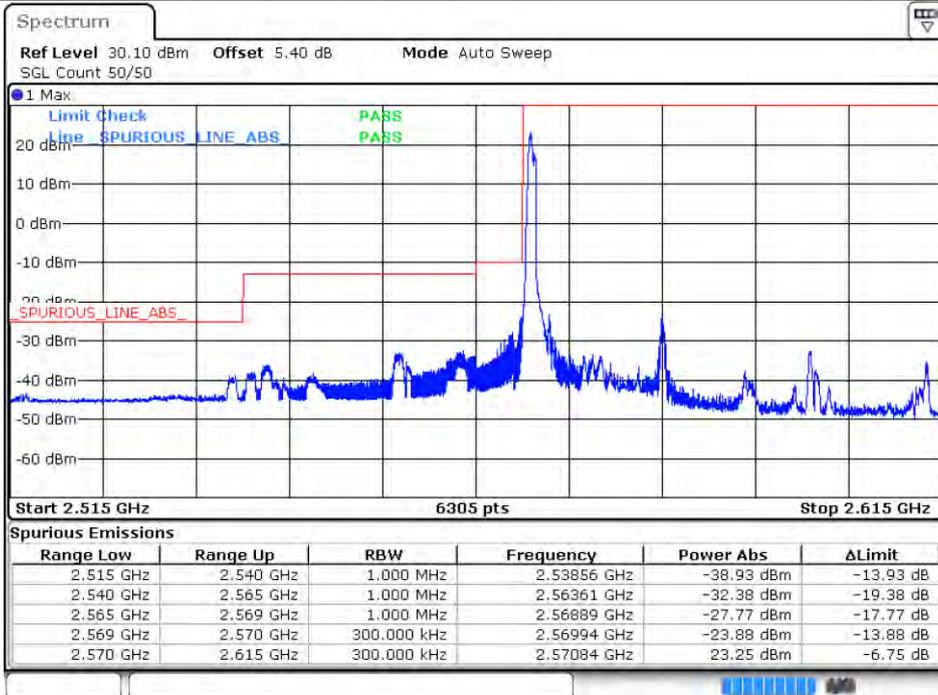


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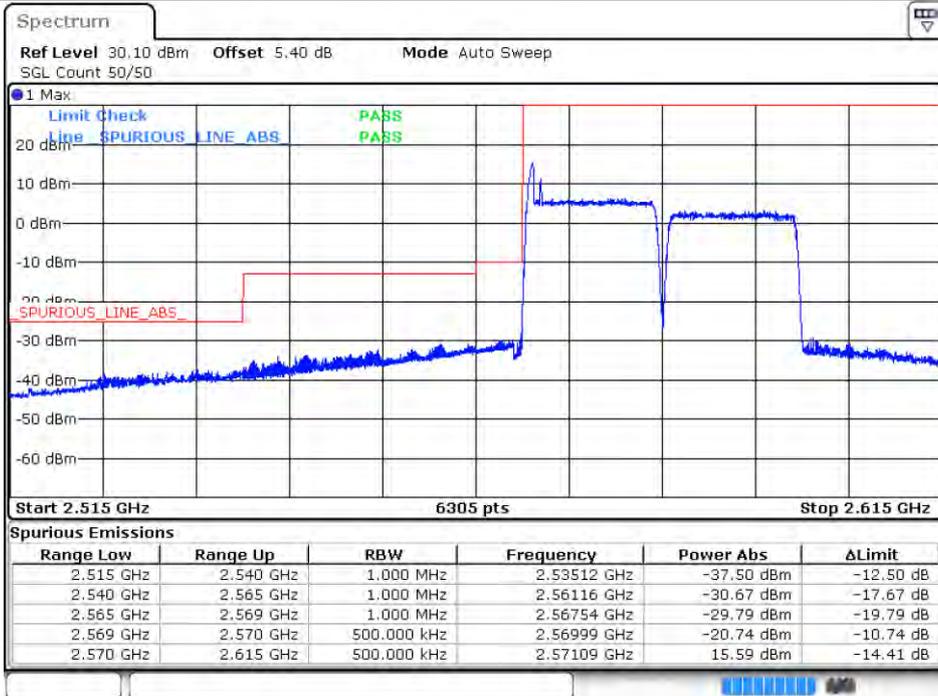
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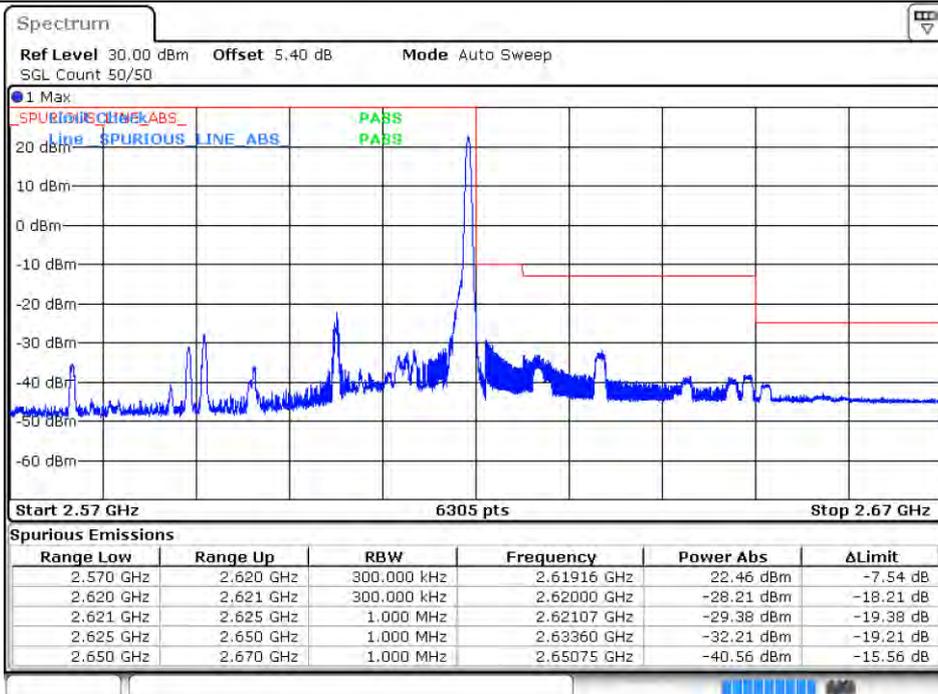


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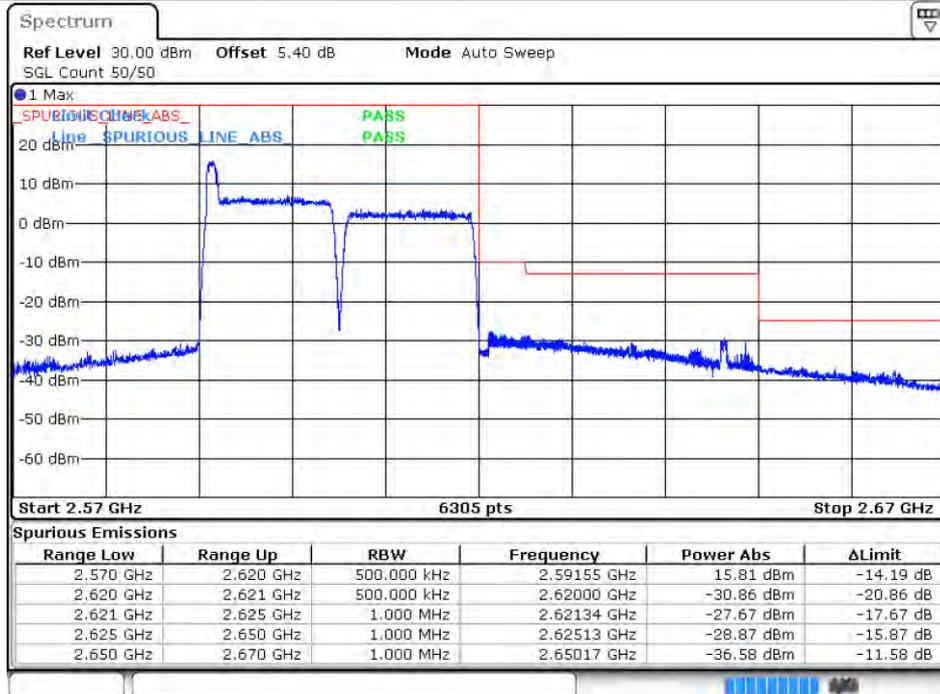
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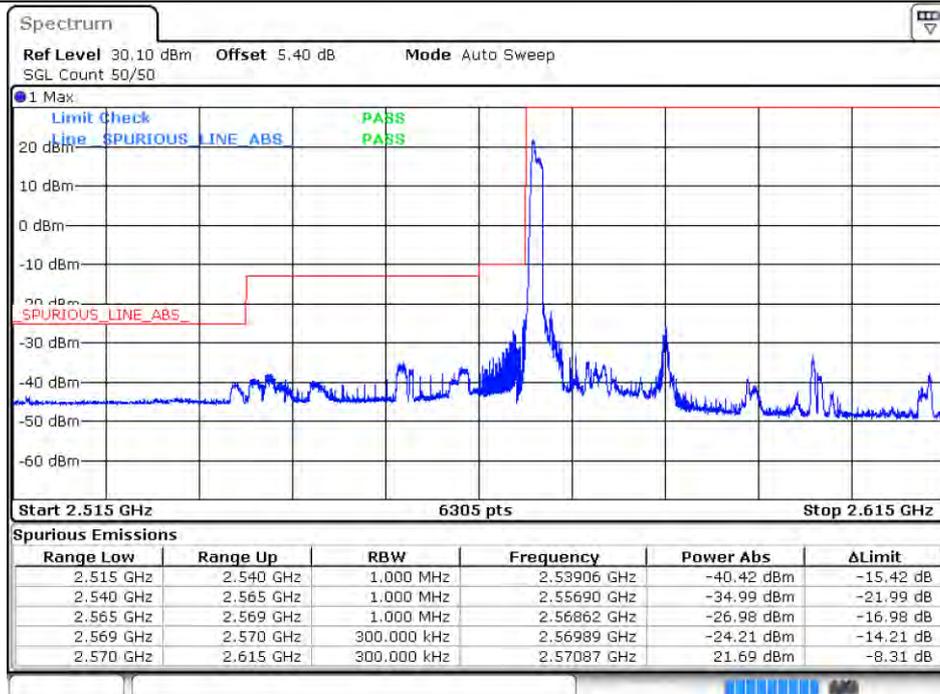


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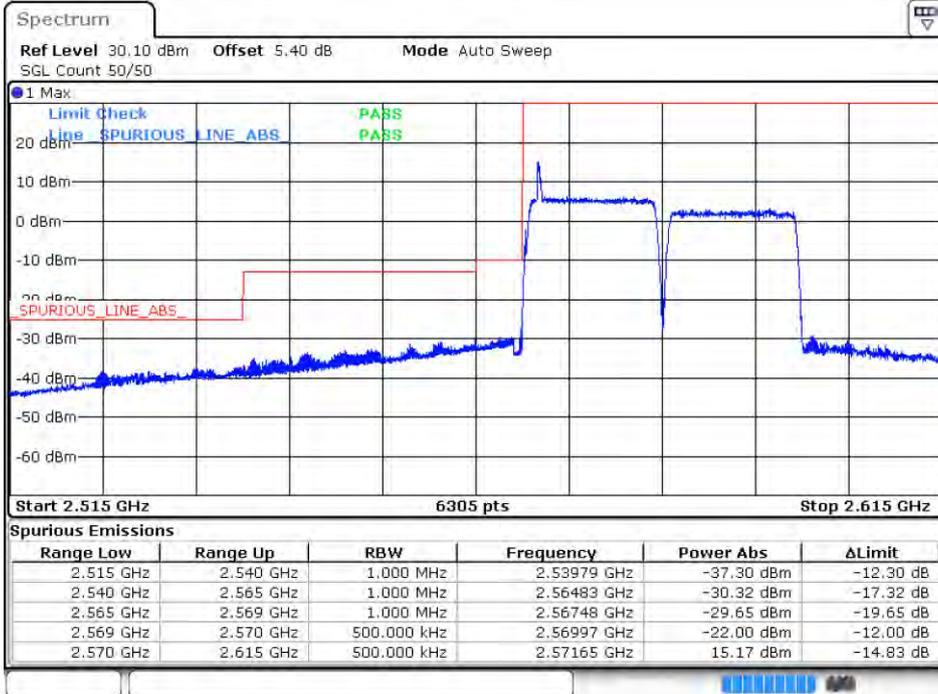
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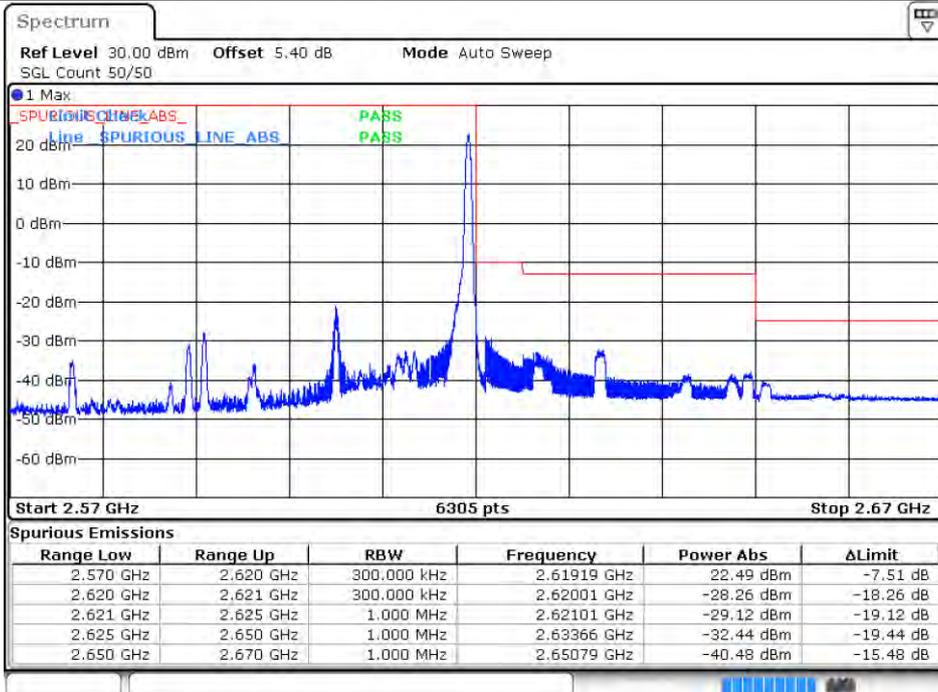


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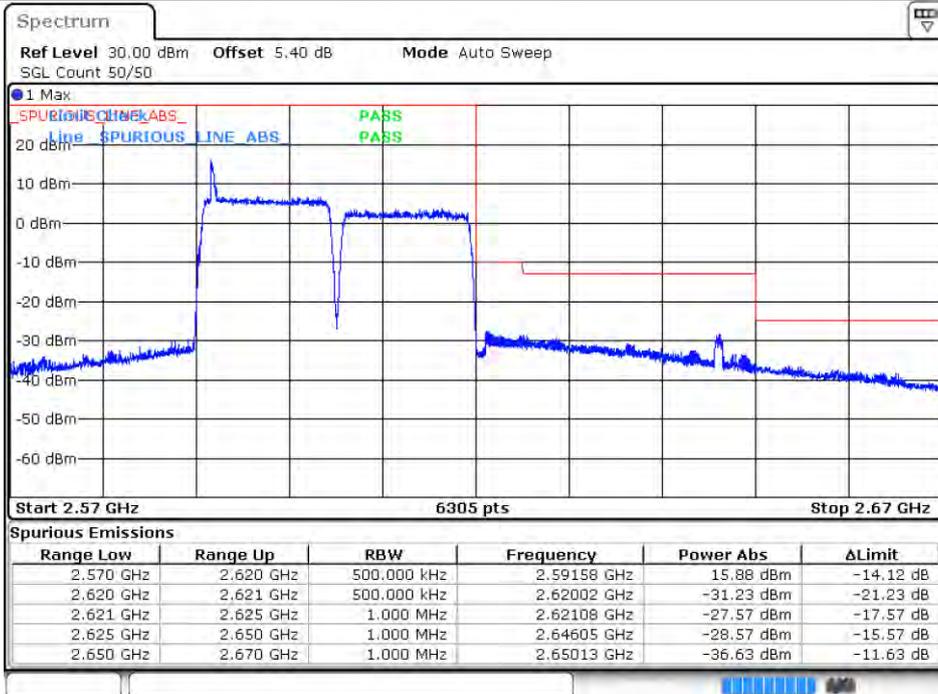
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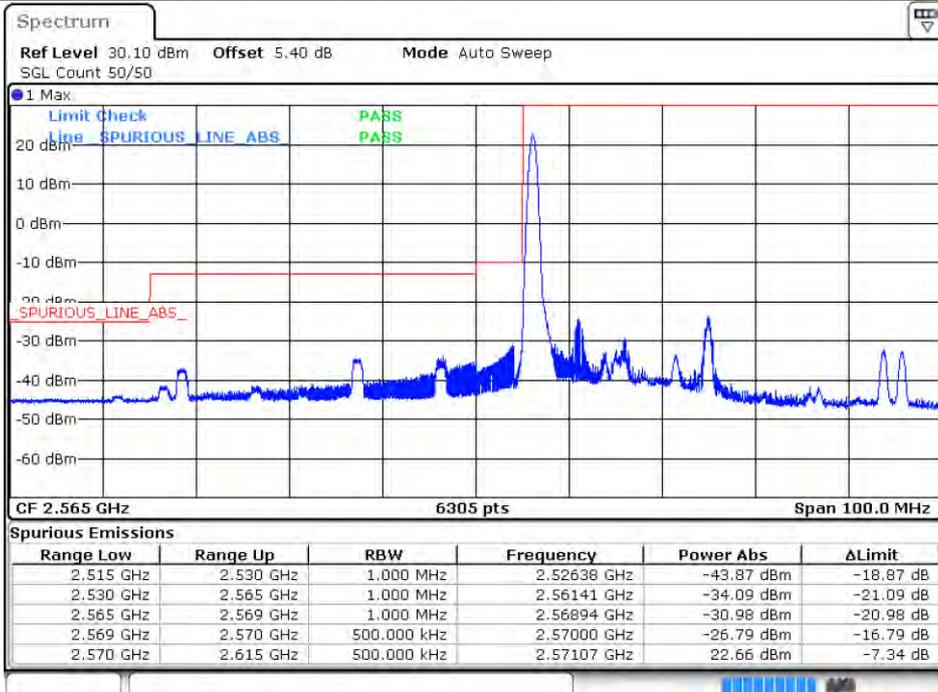


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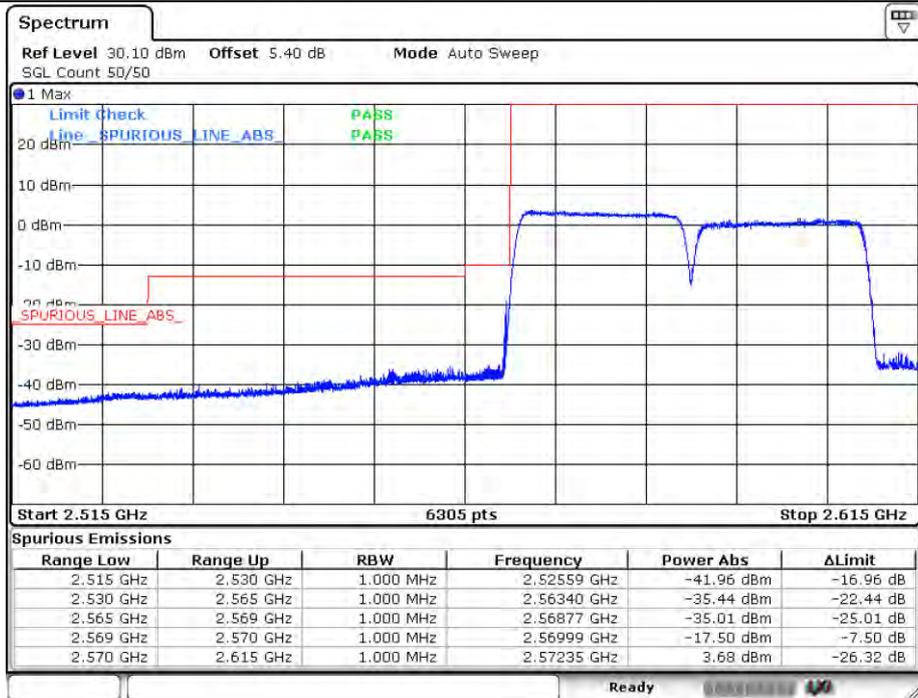
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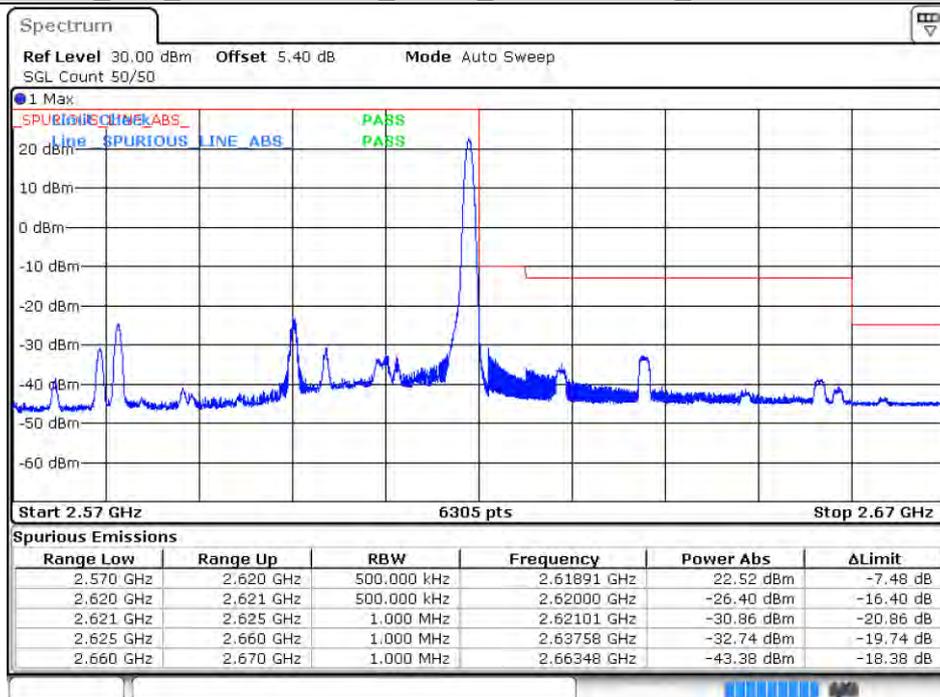


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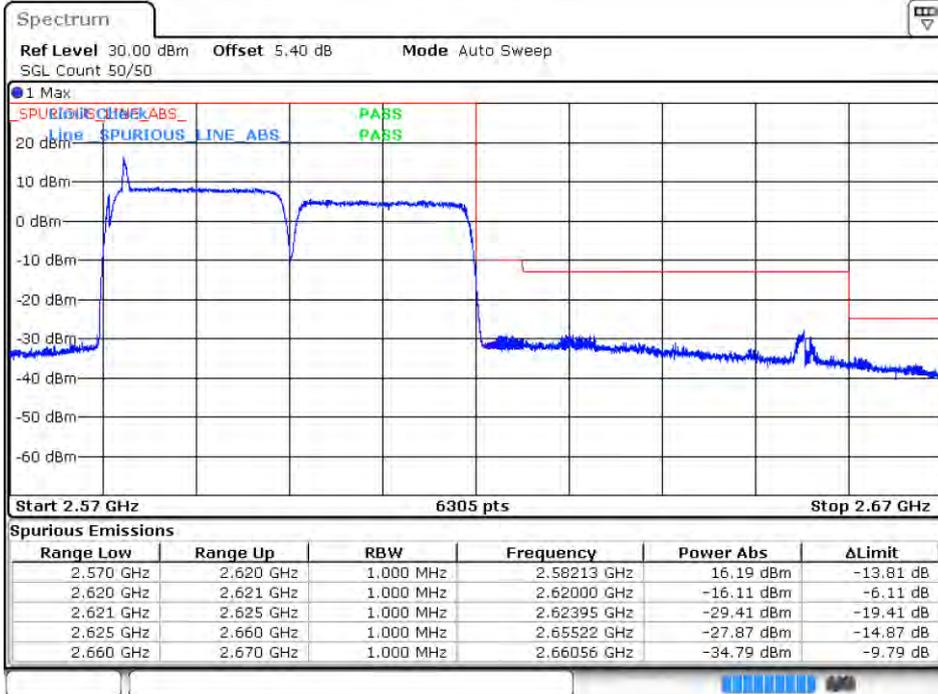
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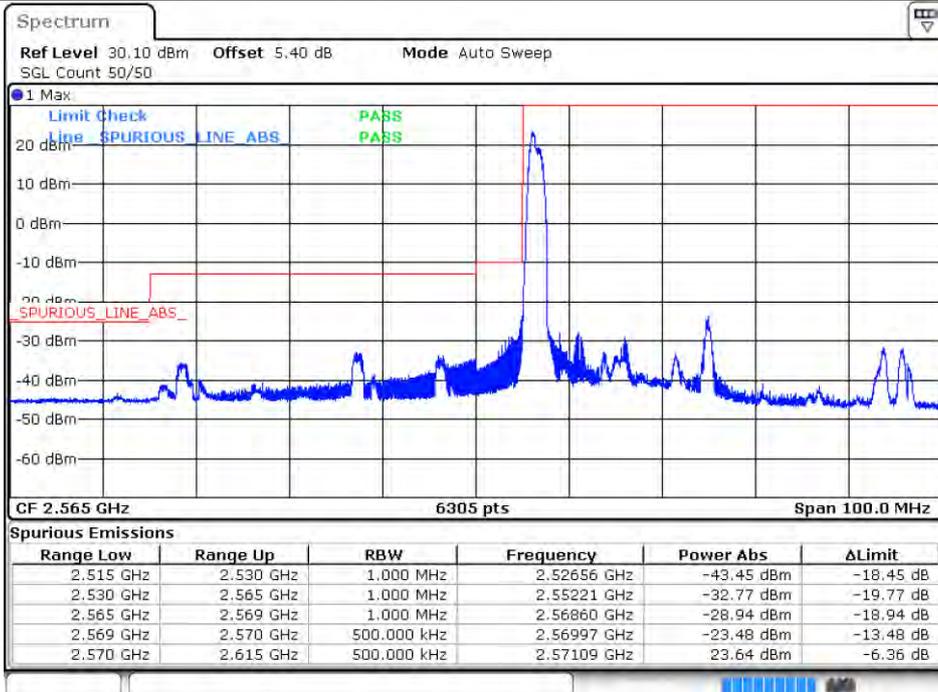


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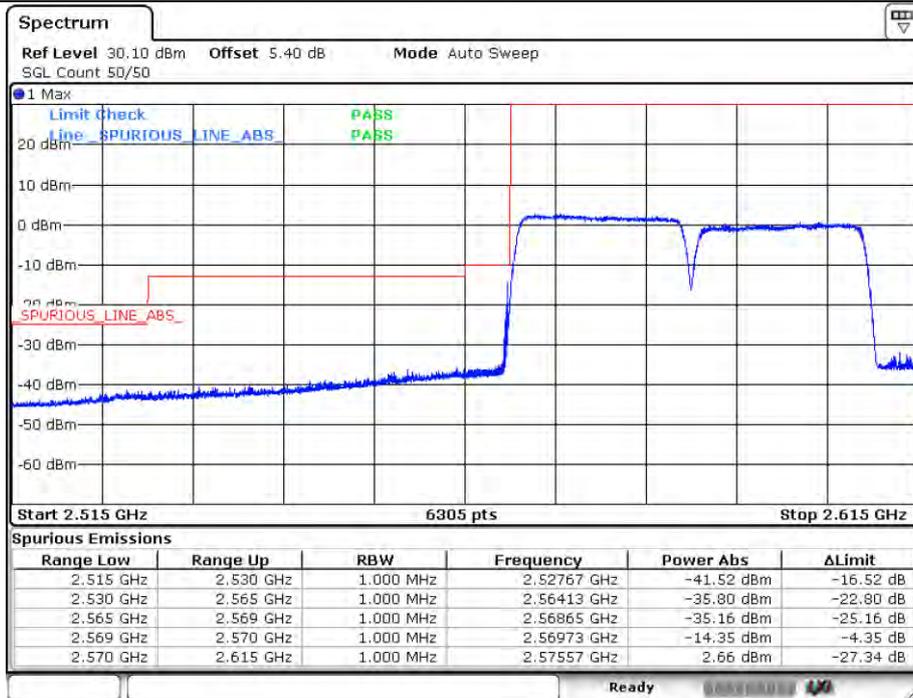
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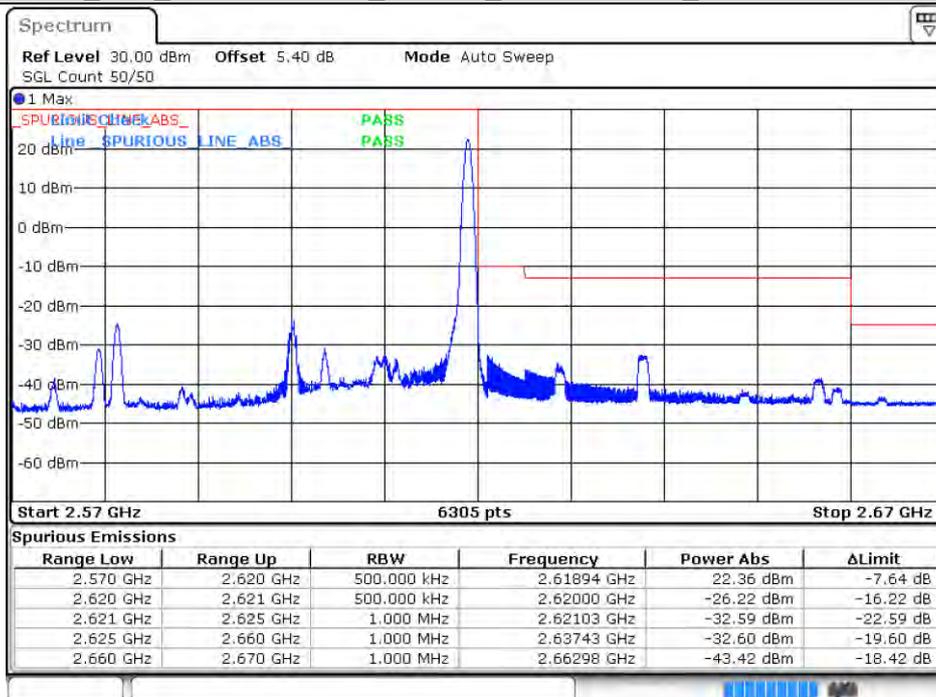


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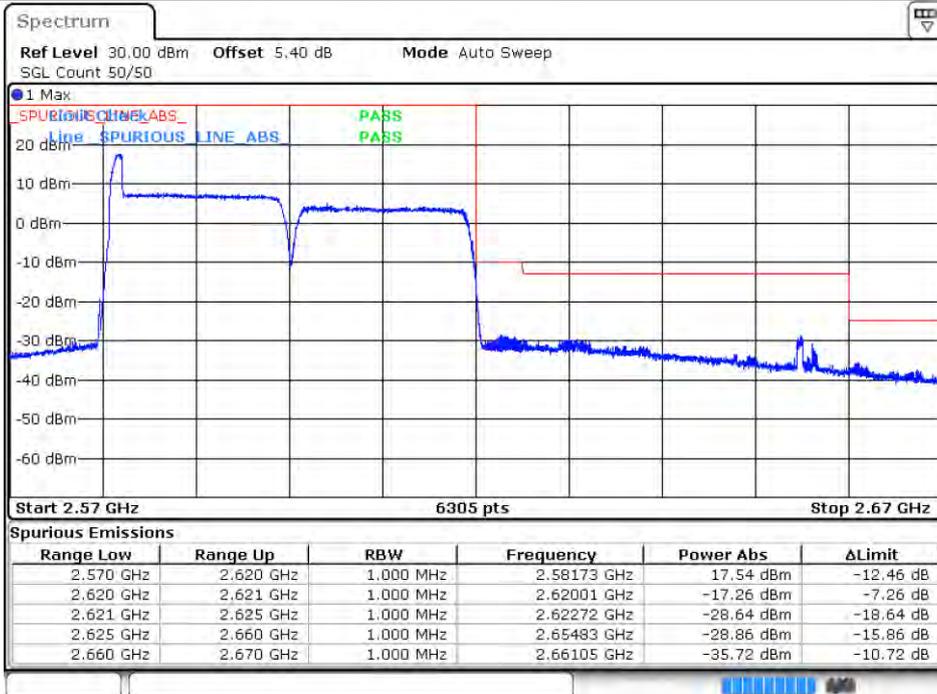


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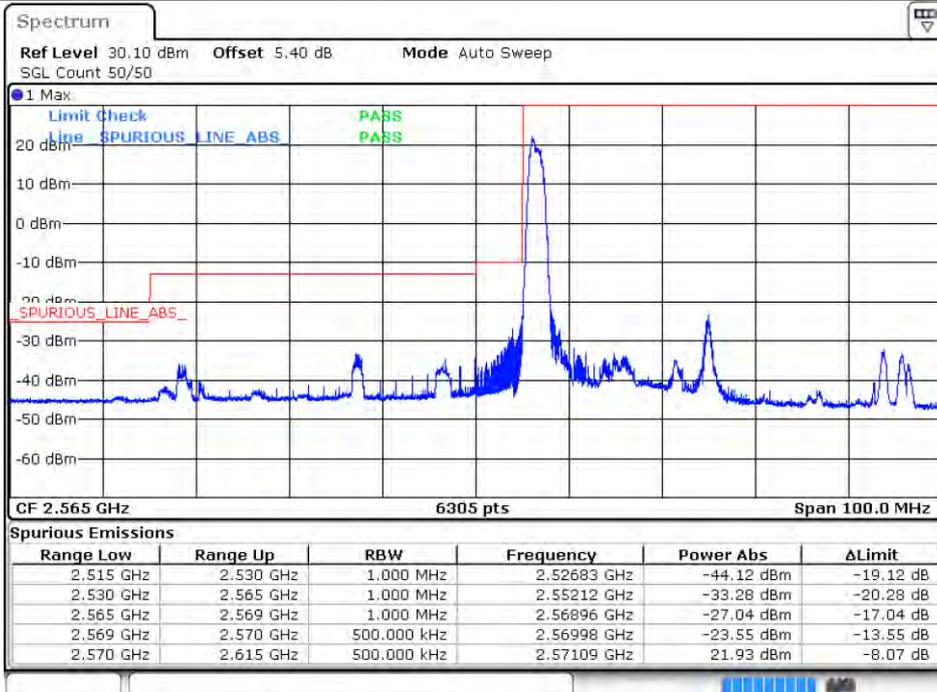


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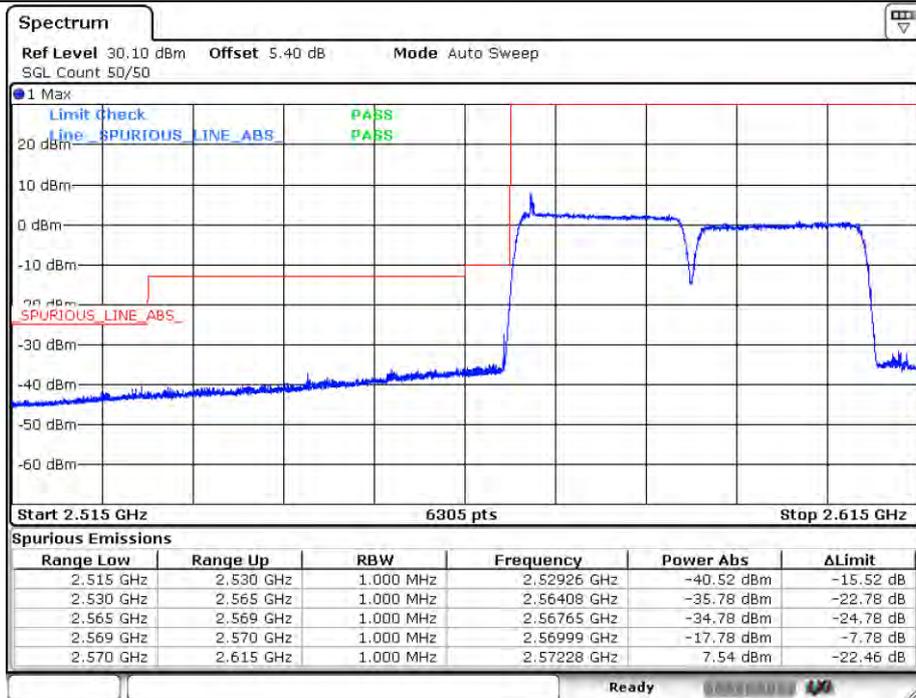


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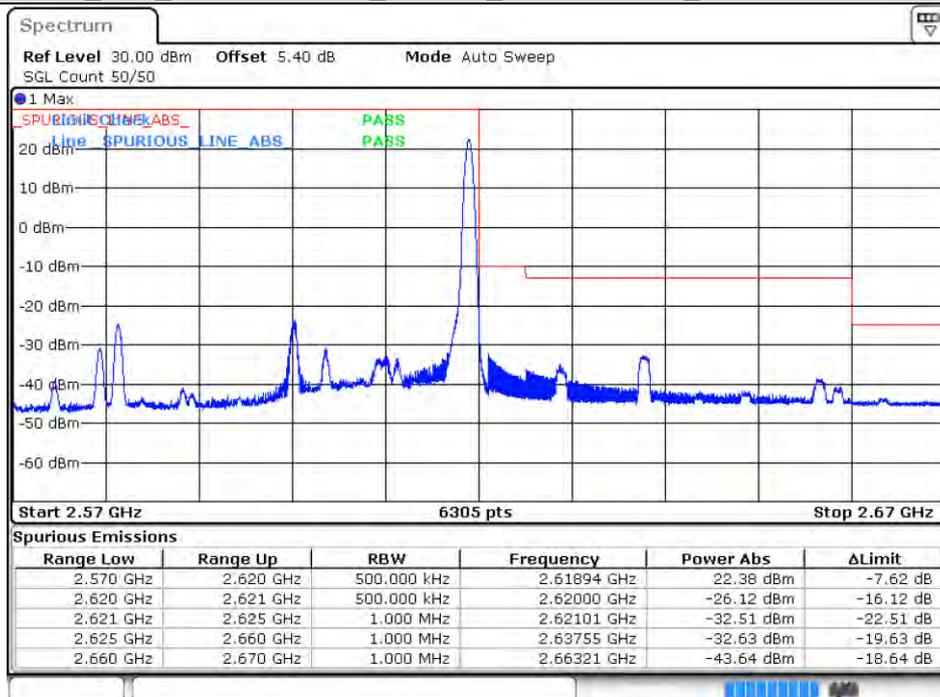
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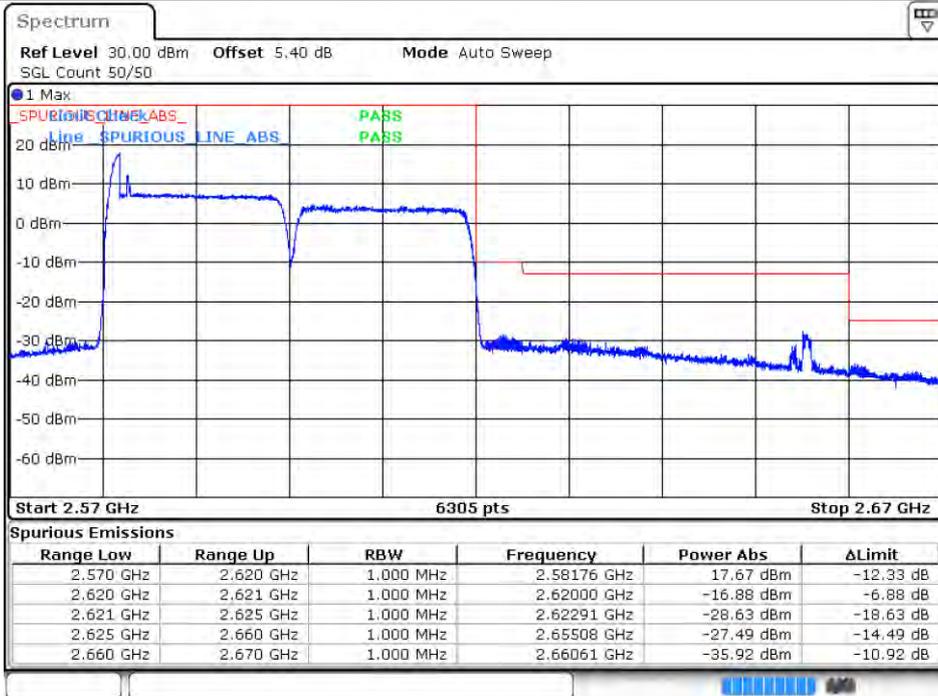
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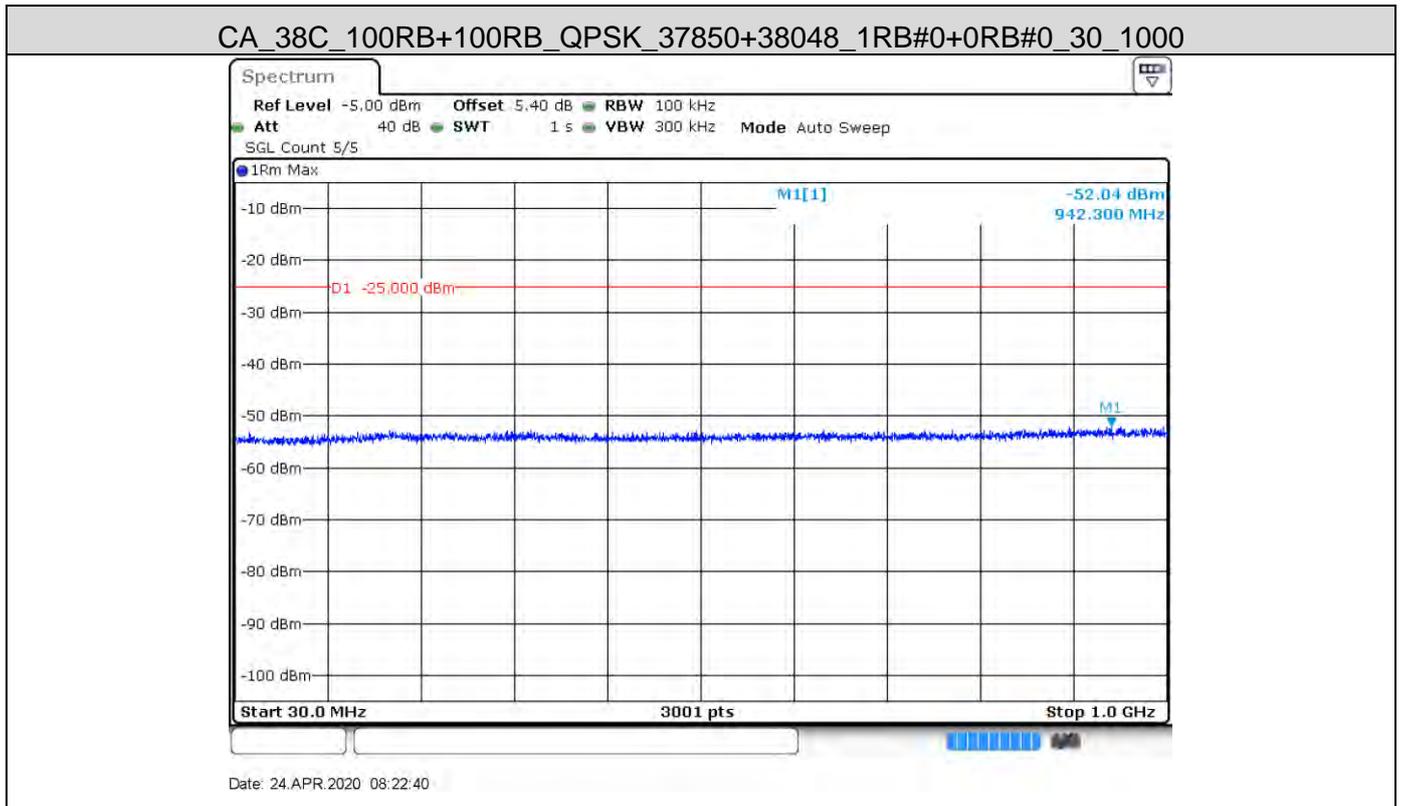
6 Spurious Emission at Antenna Terminal

NOTE: 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 between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

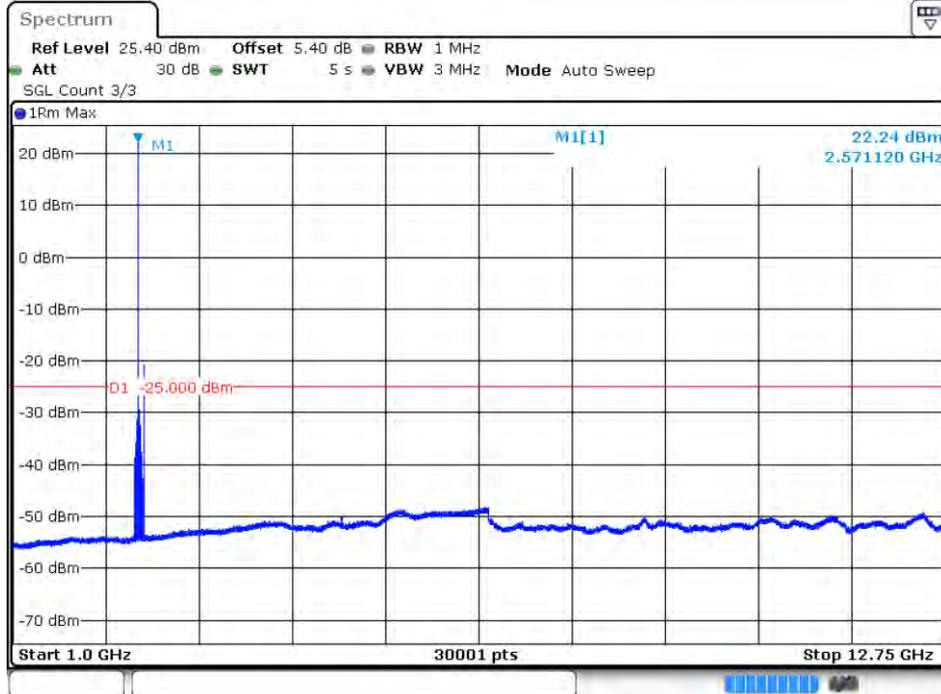
6.1 For LTE

6.1.1 Test Band = LTE Band CA_38C



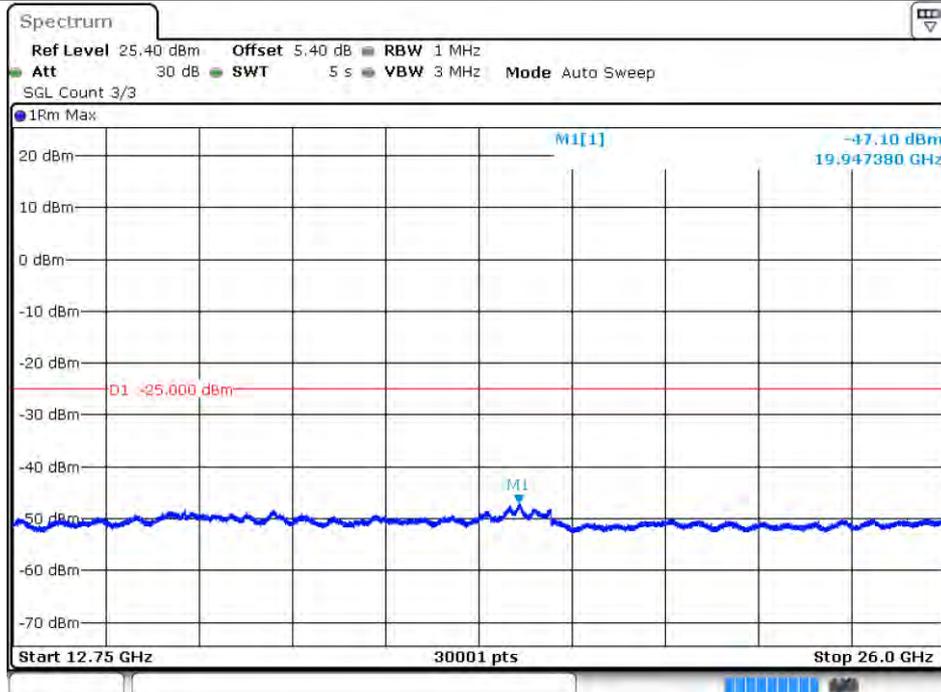


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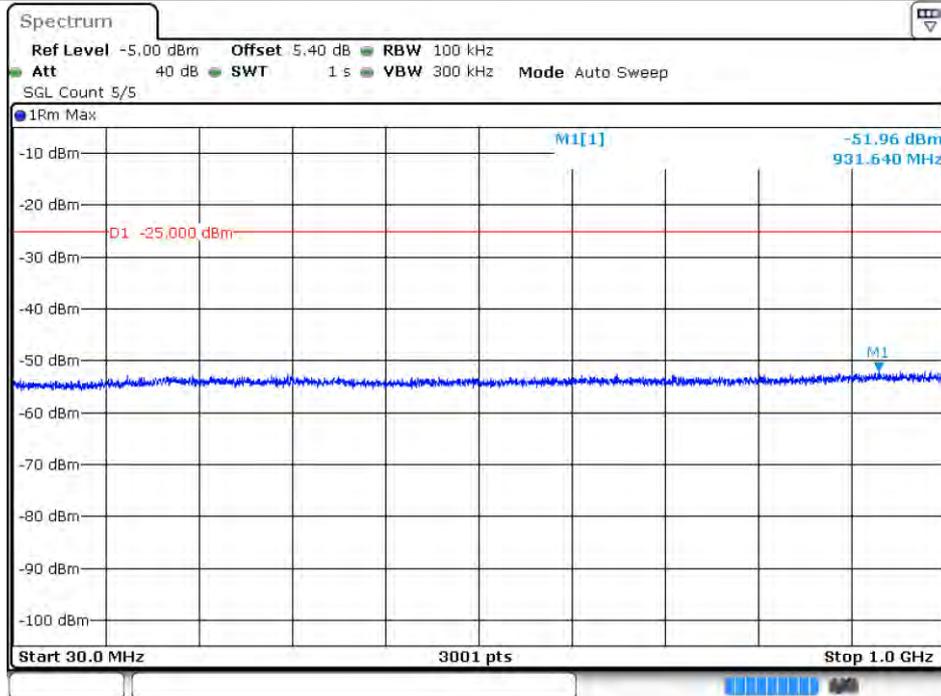


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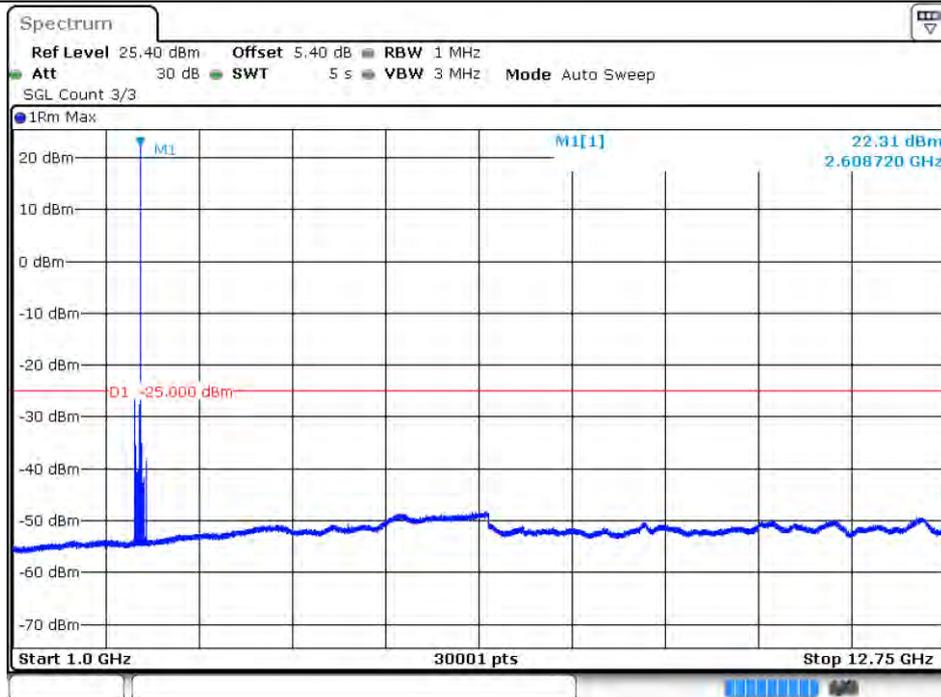


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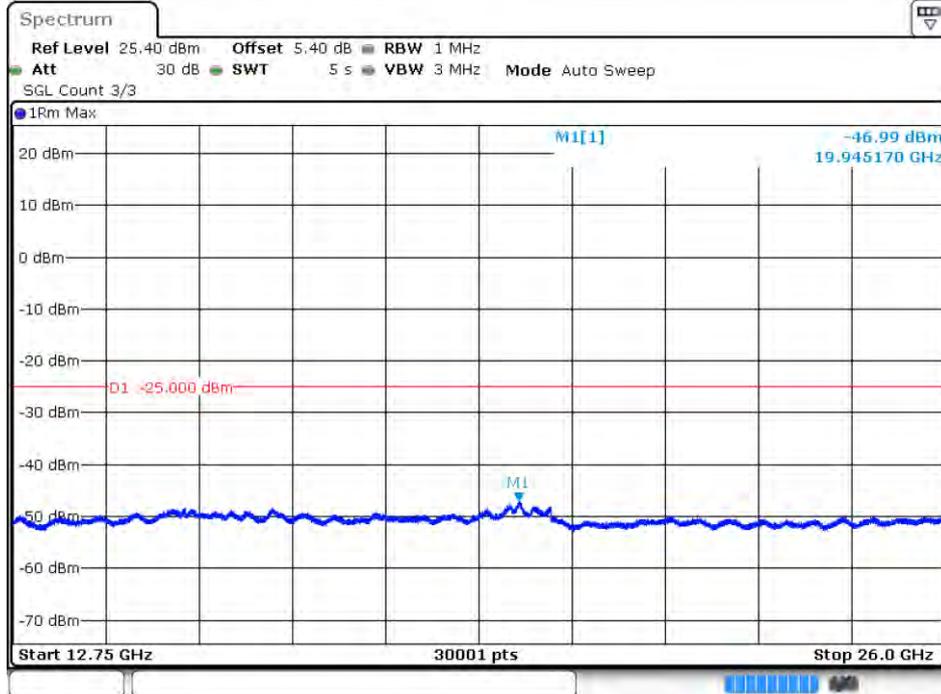


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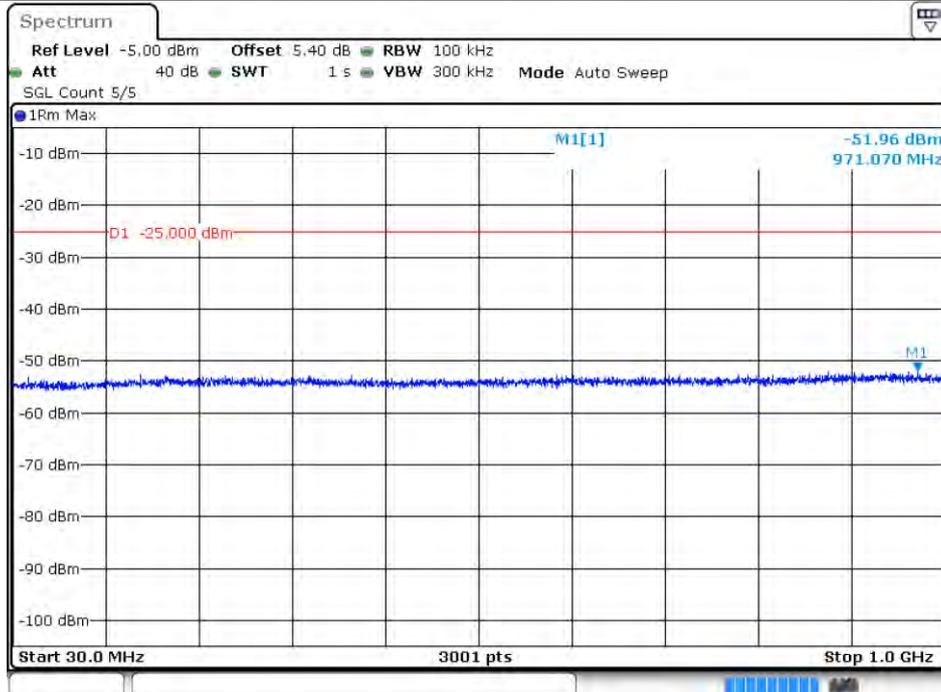


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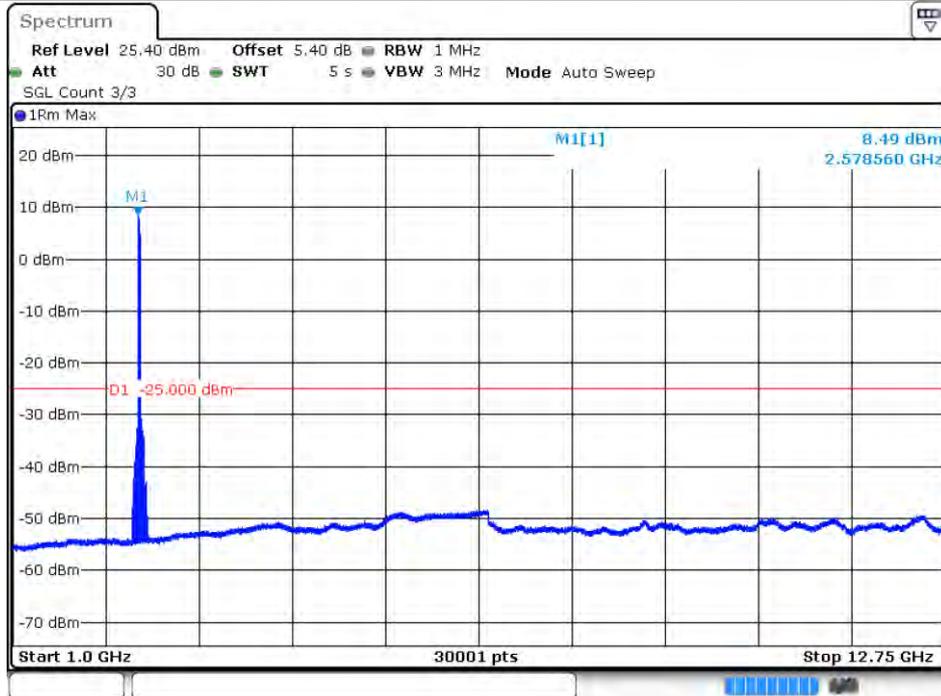


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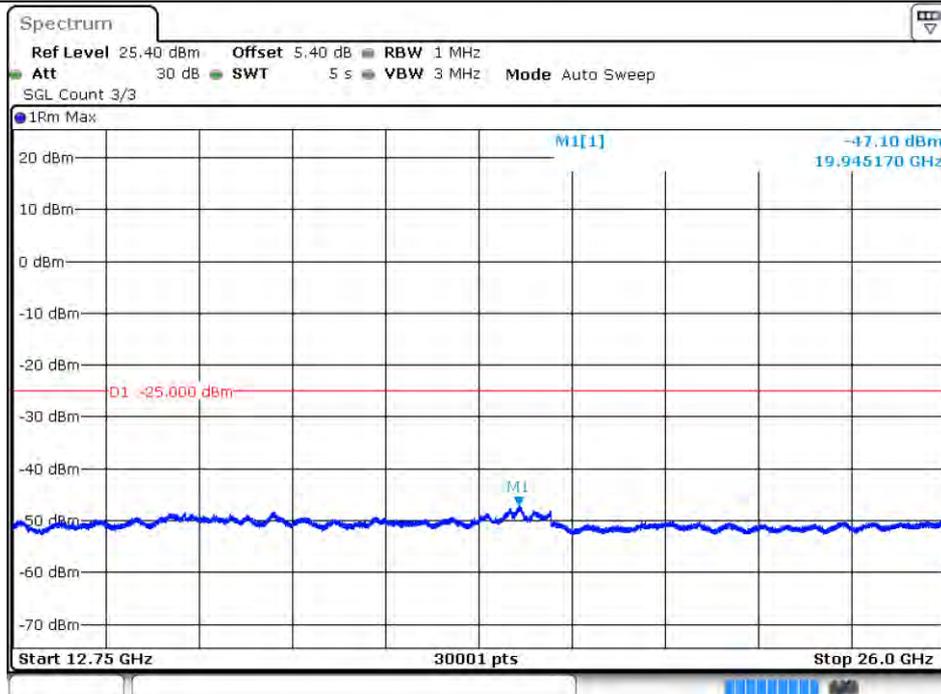


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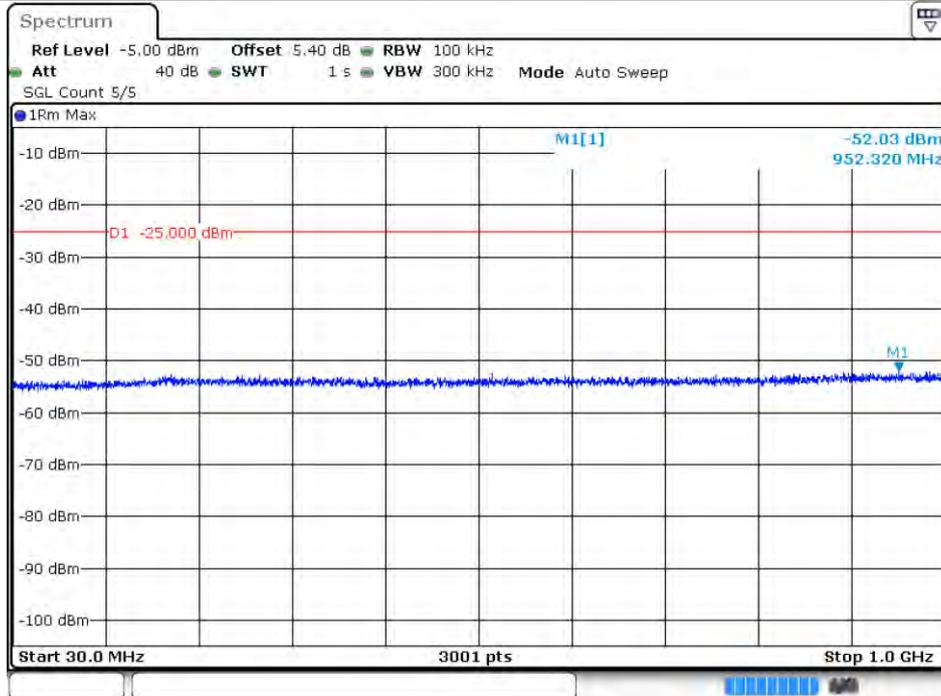


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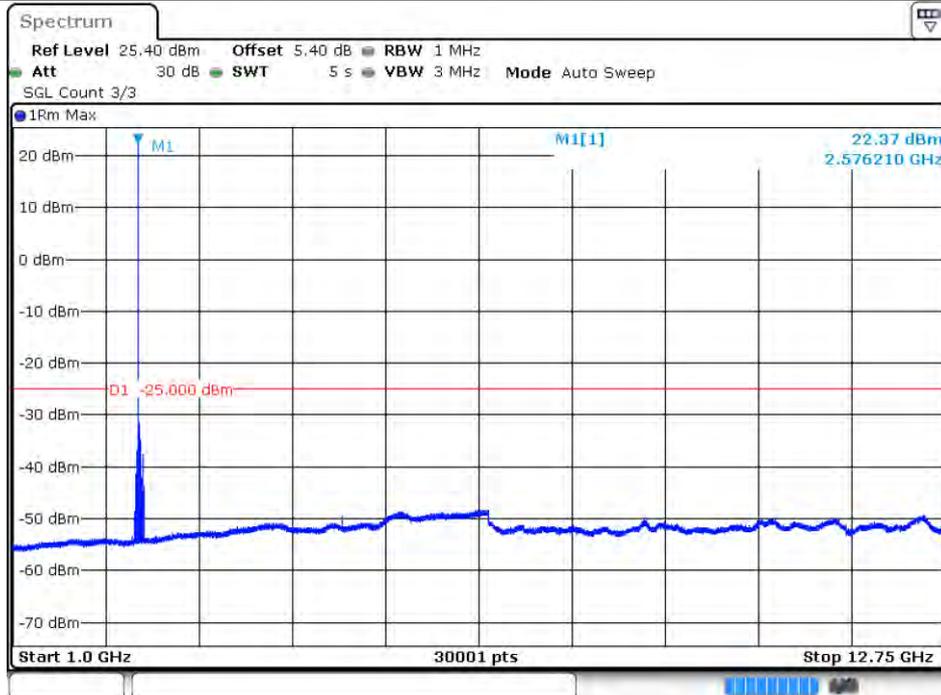


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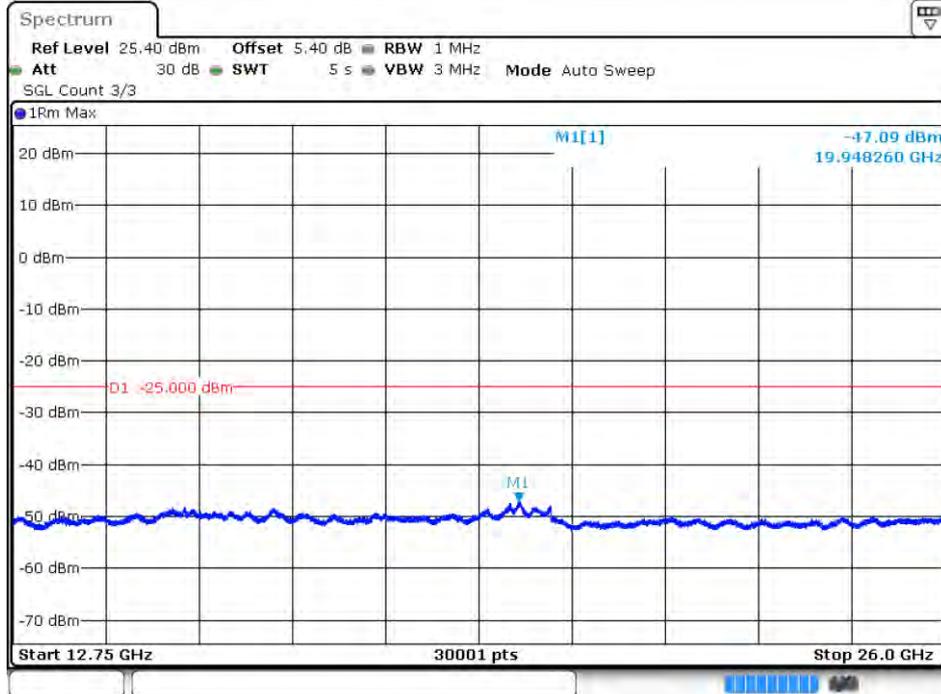
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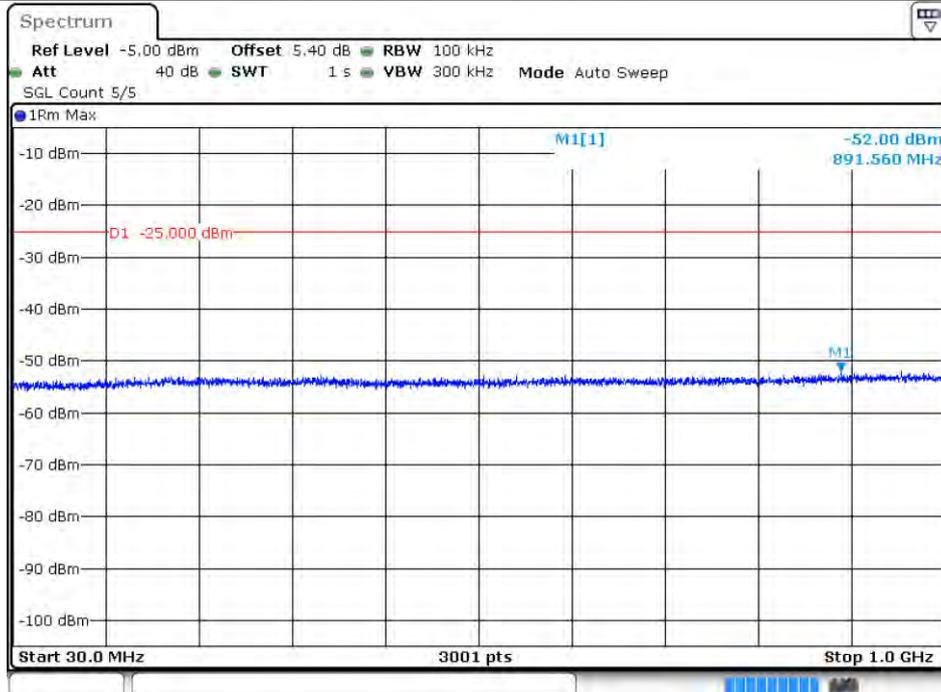


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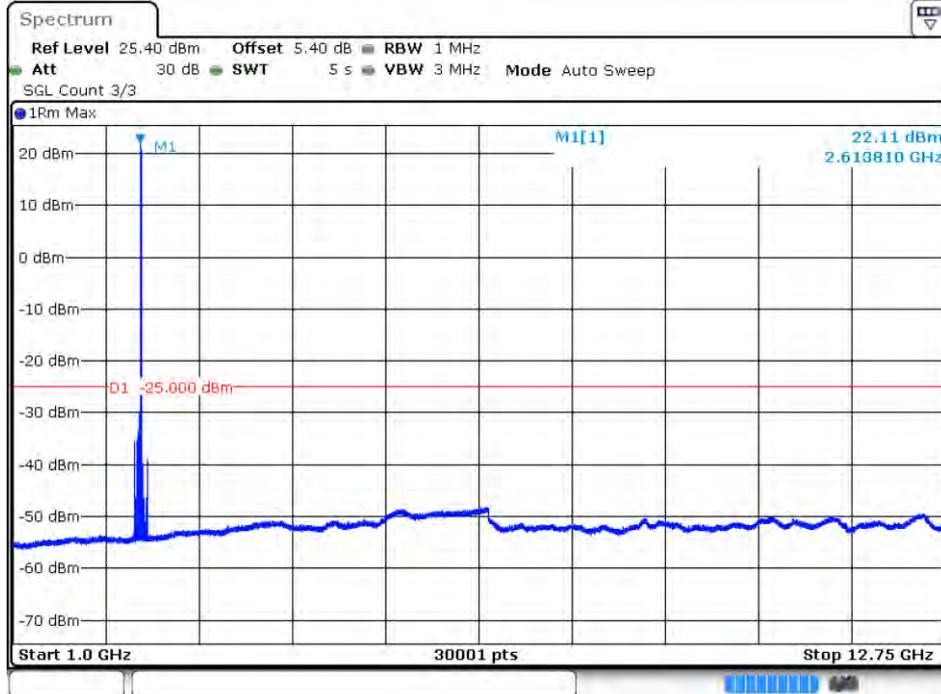
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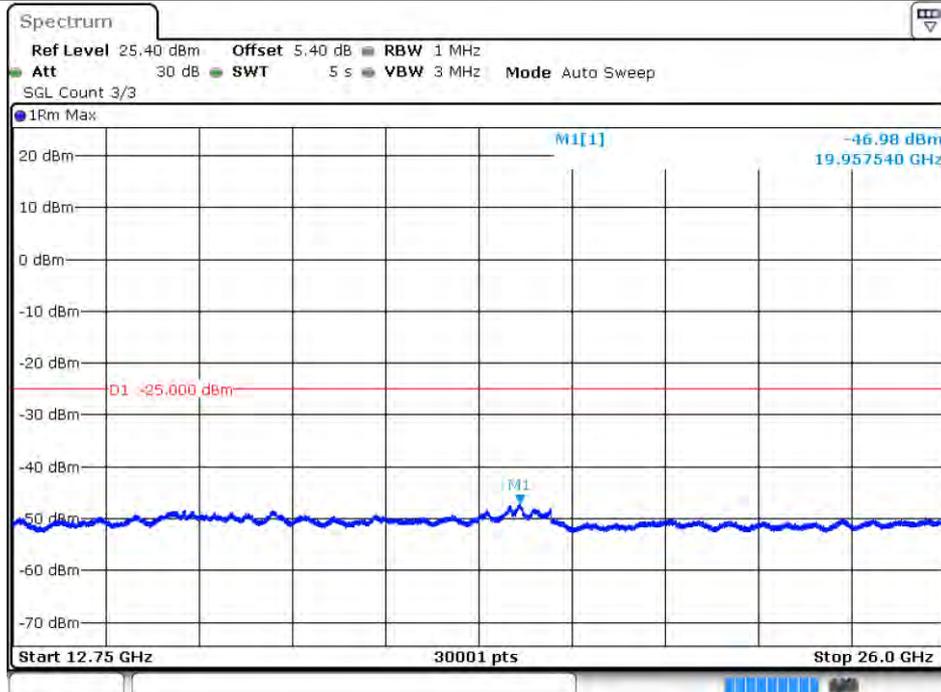


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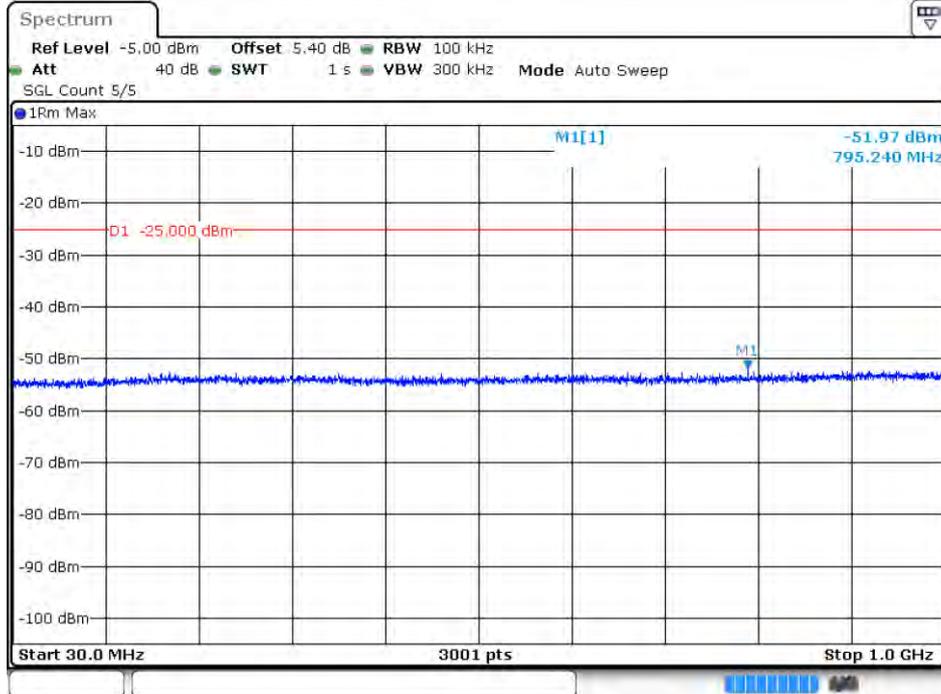
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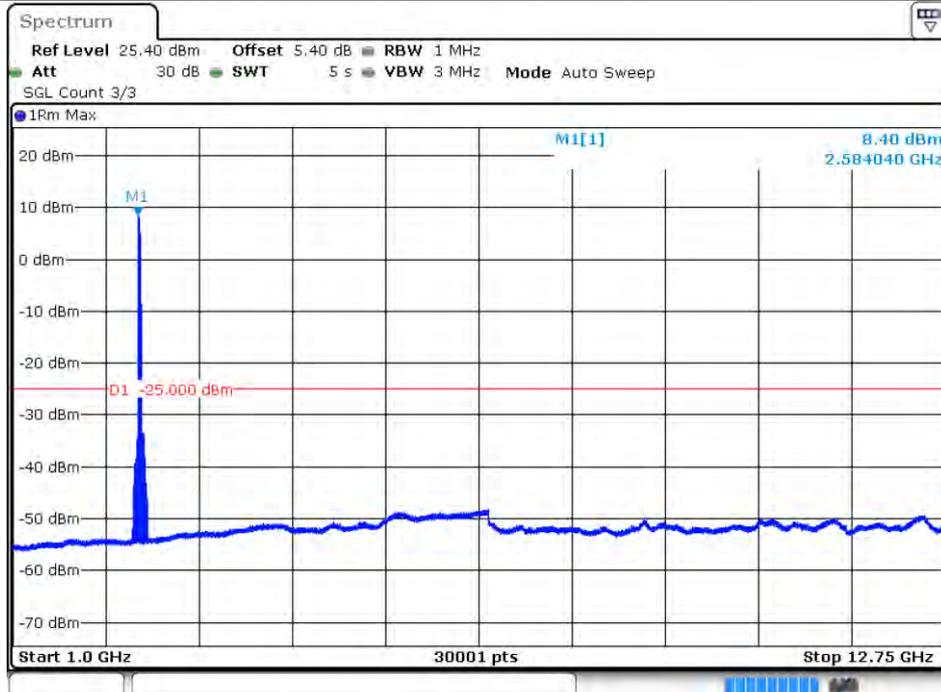


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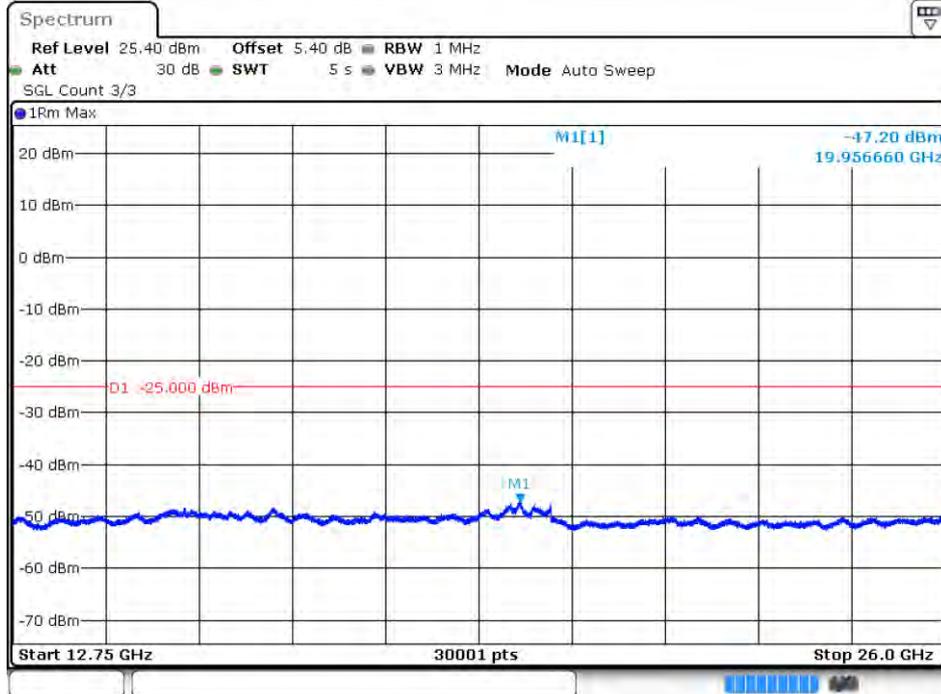


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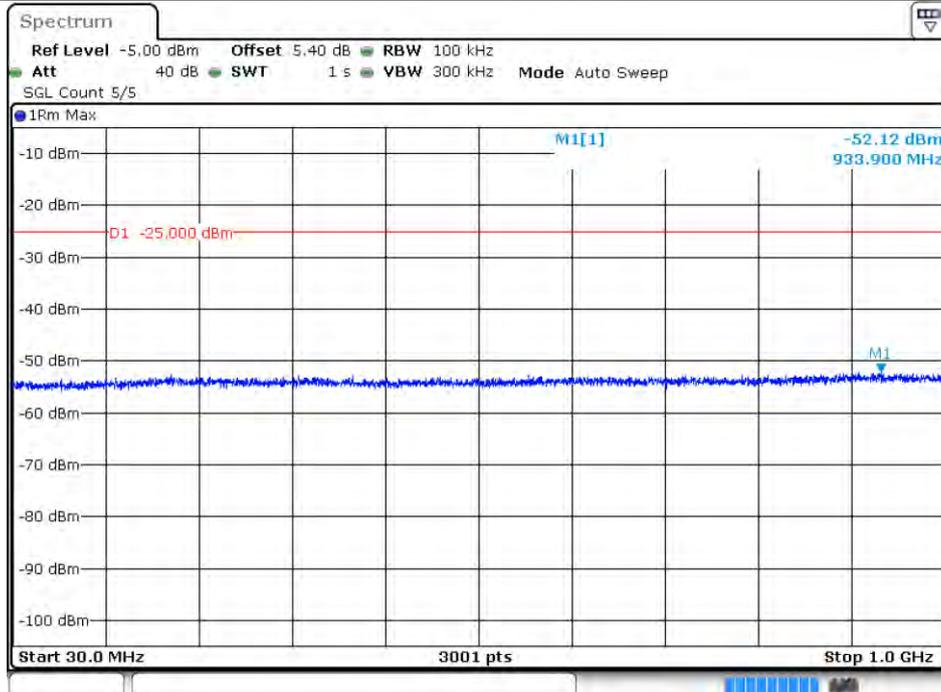


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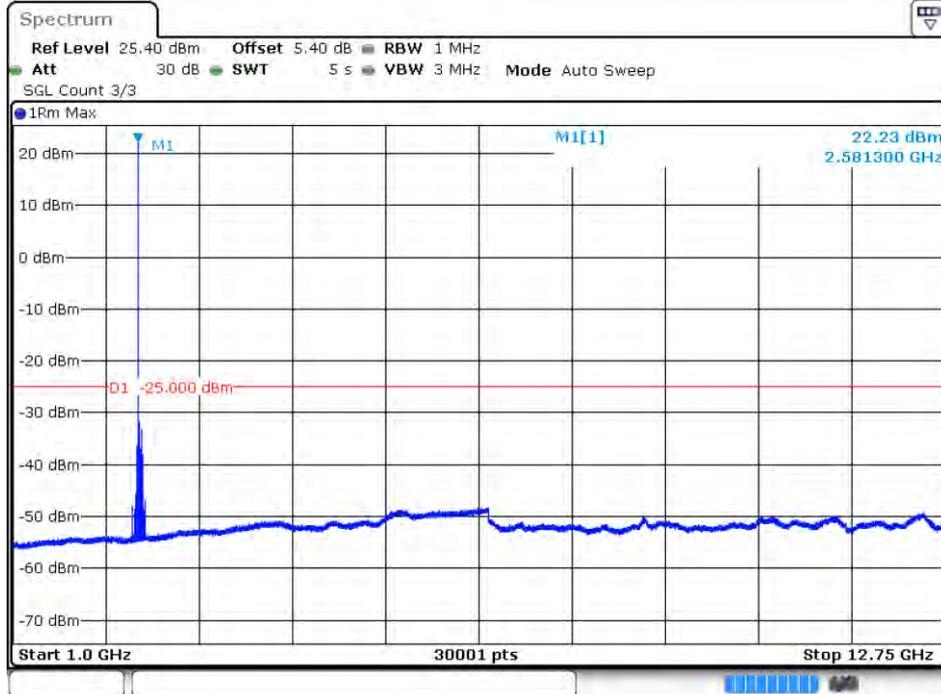


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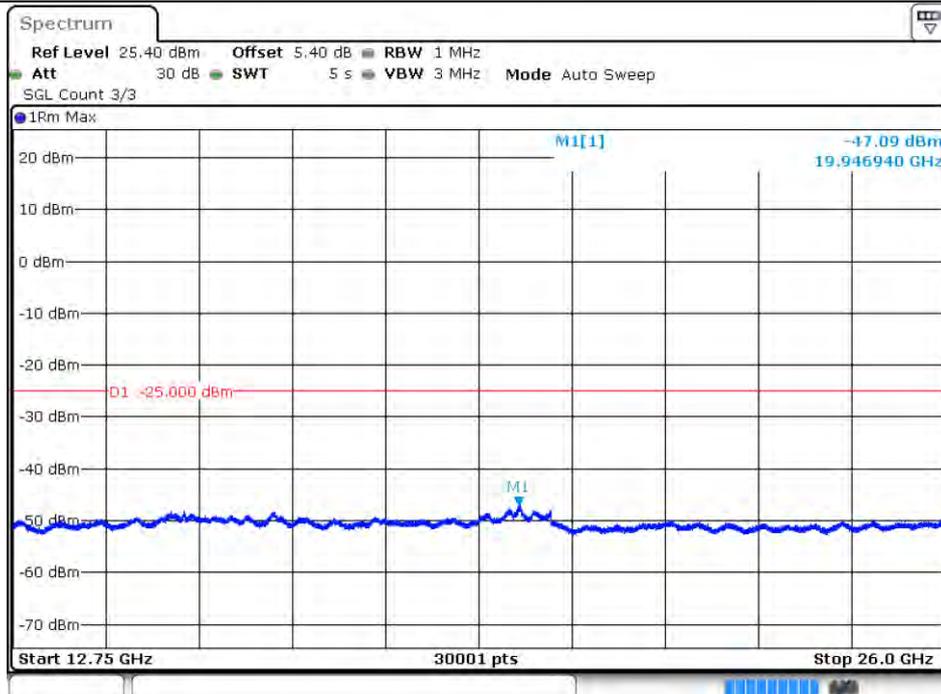


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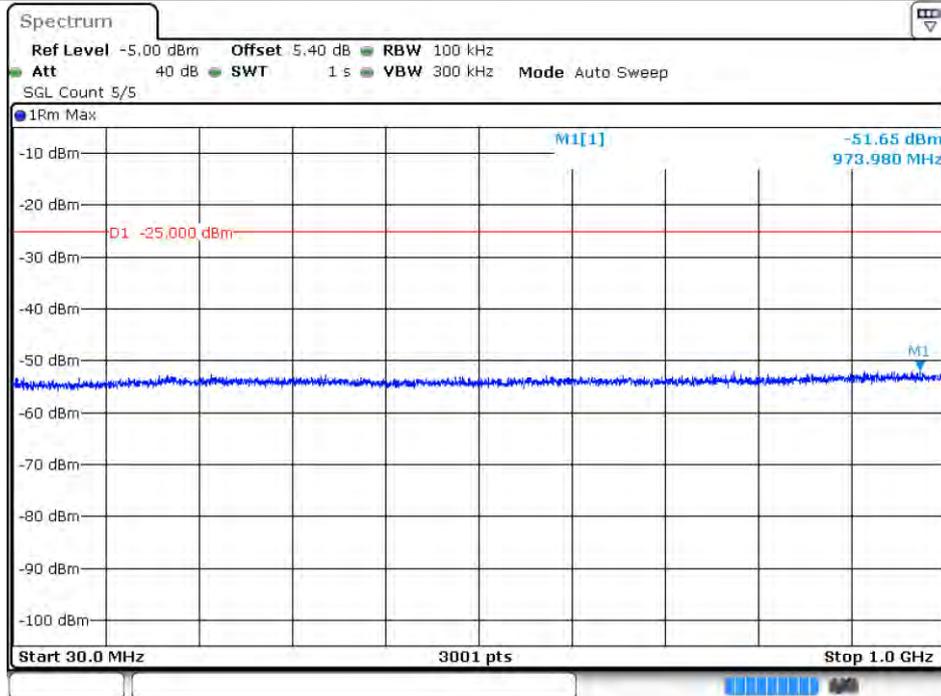
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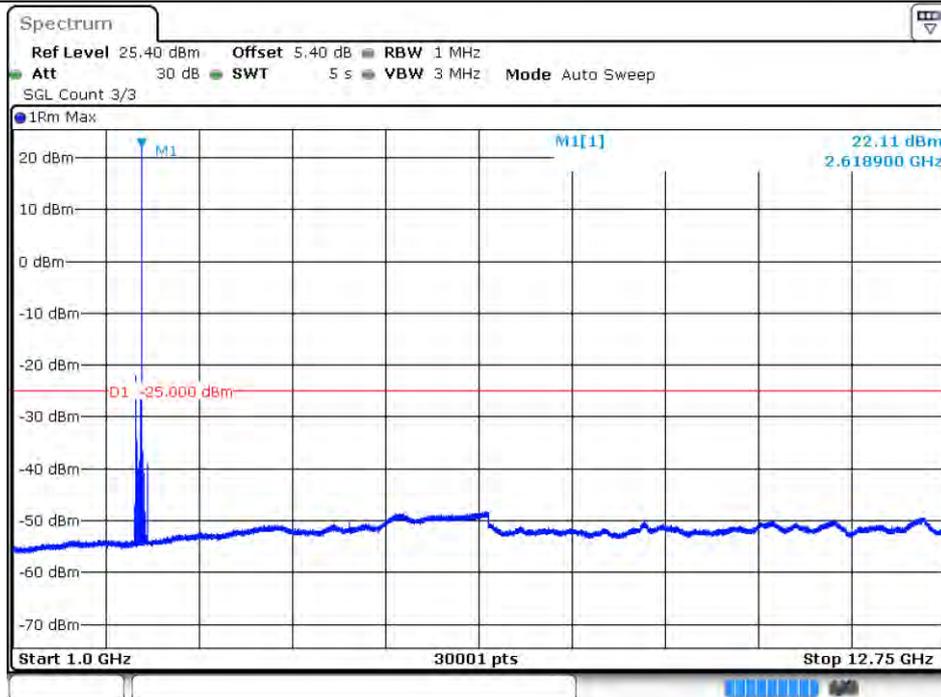


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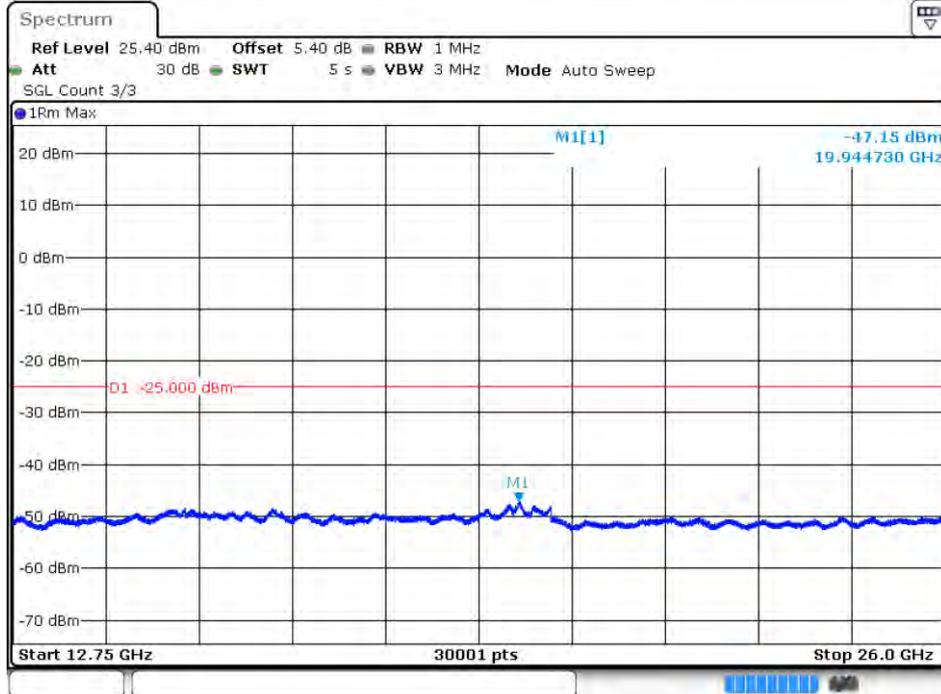


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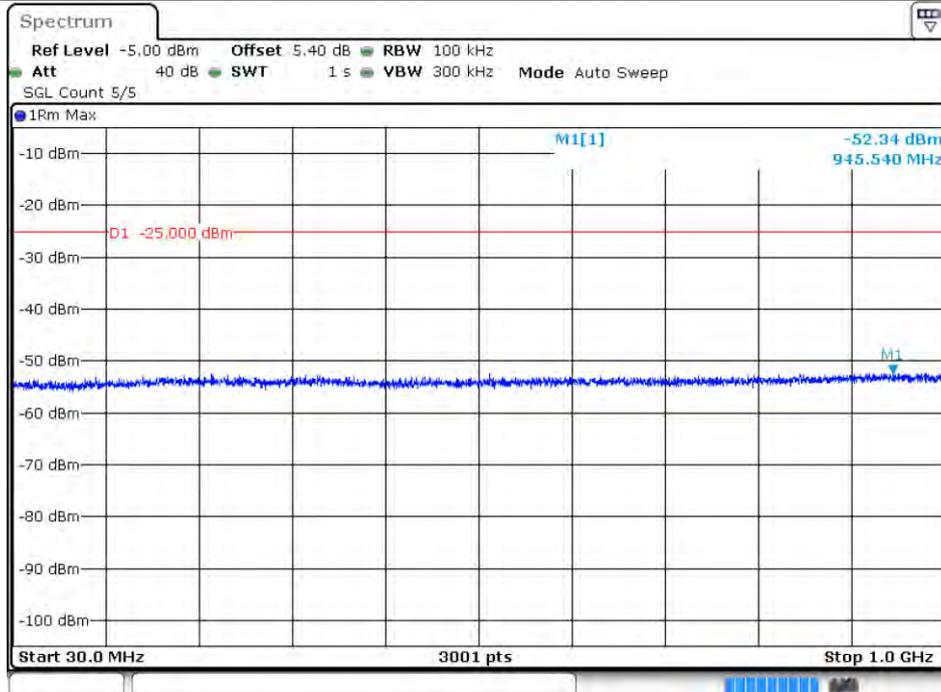


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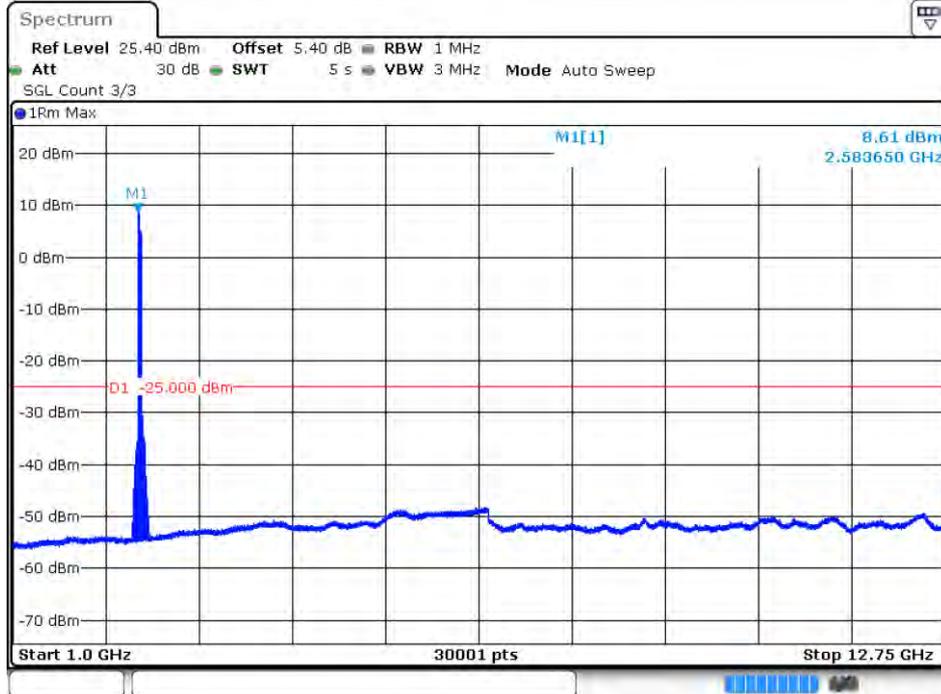
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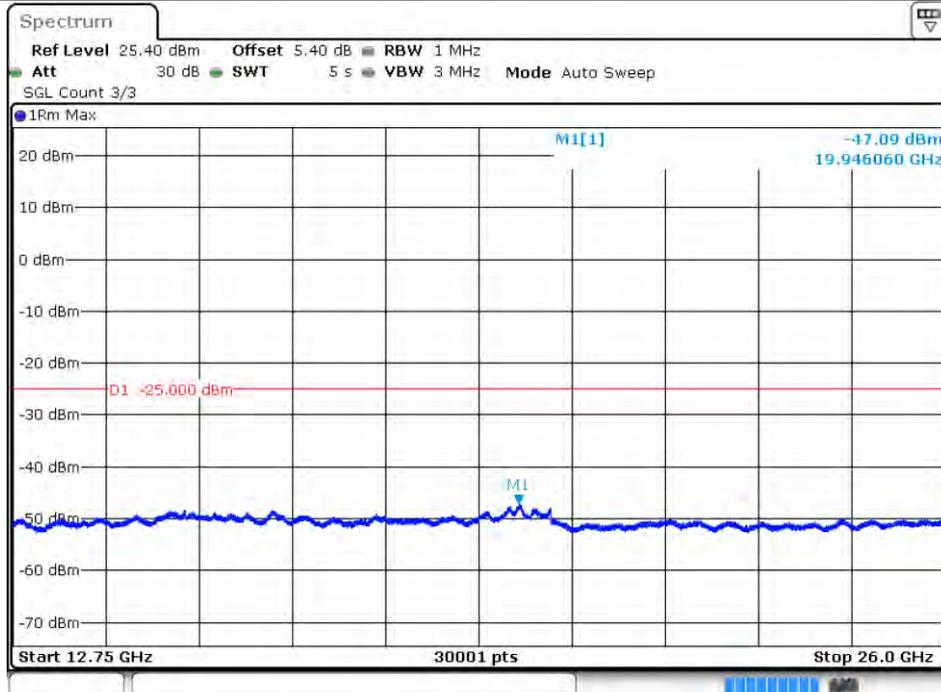


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Date: 24.APR.2020 08:30:09



7 Field Strength of Spurious Radiation

7.1 For LTE UL CA

7.1.1 Test Band = LTE Band CA_38C (Down Ant)

7.1.1.1 Test Mode =LTE/QPSK

7.1.1.1.1 Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 56.250000 | -74.82 | -25.00 | 49.82 | Vertical |
| 334.900000 | -82.51 | -25.00 | 57.51 | Vertical |
| 940.875000 | -75.63 | -25.00 | 50.63 | Vertical |
| 5142.075000 | -65.27 | -25.00 | 40.27 | Vertical |
| 7792.775000 | -62.75 | -25.00 | 37.75 | Vertical |
| 10646.275000 | -61.48 | -25.00 | 36.48 | Vertical |
| 56.950000 | -73.85 | -25.00 | 48.85 | Horizontal |
| 619.583333 | -80.32 | -25.00 | 55.32 | Horizontal |
| 954.304167 | -75.09 | -25.00 | 50.09 | Horizontal |
| 5131.350000 | -65.42 | -25.00 | 40.42 | Horizontal |
| 7808.375000 | -62.59 | -25.00 | 37.59 | Horizontal |
| 10326.800000 | -62.42 | -25.00 | 37.42 | Horizontal |

7.1.1.1.2 Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 56.500000 | -75.05 | -25.00 | 50.05 | Vertical |
| 328.850000 | -82.62 | -25.00 | 57.62 | Vertical |
| 945.733333 | -75.43 | -25.00 | 50.43 | Vertical |
| 5143.700000 | -65.54 | -25.00 | 40.54 | Vertical |
| 7712.500000 | -62.54 | -25.00 | 37.54 | Vertical |
| 10320.300000 | -61.89 | -25.00 | 36.89 | Vertical |
| 56.050000 | -72.43 | -25.00 | 47.43 | Horizontal |
| 620.912500 | -80.21 | -25.00 | 55.21 | Horizontal |
| 961.270833 | -75.22 | -25.00 | 50.22 | Horizontal |
| 5077.725000 | -65.43 | -25.00 | 40.43 | Horizontal |
| 7828.850000 | -62.81 | -25.00 | 37.81 | Horizontal |
| 10629.375000 | -61.62 | -25.00 | 36.62 | Horizontal |



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7.1.1.1.3 Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 56.550000 | -76.69 | -25.00 | 51.69 | Vertical |
| 361.750000 | -82.85 | -25.00 | 57.85 | Vertical |
| 944.770833 | -75.42 | -25.00 | 50.42 | Vertical |
| 5162.550000 | -65.01 | -25.00 | 40.01 | Vertical |
| 7830.800000 | -62.60 | -25.00 | 37.60 | Vertical |
| 10651.800000 | -61.01 | -25.00 | 36.01 | Vertical |
| 55.150000 | -74.82 | -25.00 | 49.82 | Horizontal |
| 625.633333 | -80.26 | -25.00 | 55.26 | Horizontal |
| 958.520833 | -75.12 | -25.00 | 50.12 | Horizontal |
| 5288.975000 | -65.70 | -25.00 | 40.70 | Horizontal |
| 7743.375000 | -62.74 | -25.00 | 37.74 | Horizontal |
| 10270.900000 | -62.37 | -25.00 | 37.37 | 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.



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8 Frequency Stability

8.1 Frequency Error VS. Voltage

| Test Band | Test Mode | Test Channel | RB Config | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|-----------------|------------|------------|------------------|-----------------------|---------|
| CA_38C | QPSK | 37850+38048 | 100RB#0/100RB#0 | TN | LV | -6.49 | -0.002514 | PASS |
| CA_38C | QPSK | 37850+38048 | 100RB#0/100RB#0 | TN | NV | -1.04 | -0.000404 | PASS |
| CA_38C | QPSK | 37850+38048 | 100RB#0/100RB#0 | TN | HV | -9.10 | -0.003527 | PASS |
| CA_38C | QPSK | 37901+38099 | 100RB#0/100RB#0 | TN | LV | -5.29 | -0.002045 | PASS |
| CA_38C | QPSK | 37901+38099 | 100RB#0/100RB#0 | TN | NV | 8.81 | 0.003407 | PASS |
| CA_38C | QPSK | 37901+38099 | 100RB#0/100RB#0 | TN | HV | -8.47 | -0.003275 | PASS |
| CA_38C | QPSK | 37952+38150 | 100RB#0/100RB#0 | TN | LV | 0.49 | 0.000188 | PASS |
| CA_38C | QPSK | 37952+38150 | 100RB#0/100RB#0 | TN | NV | -6.70 | -0.002587 | PASS |
| CA_38C | QPSK | 37952+38150 | 100RB#0/100RB#0 | TN | HV | -3.92 | -0.001514 | PASS |
| CA_38C | 16QAM | 37850+38048 | 100RB#0/100RB#0 | TN | LV | 0.18 | 0.000071 | PASS |
| CA_38C | 16QAM | 37850+38048 | 100RB#0/100RB#0 | TN | NV | -4.35 | -0.001685 | PASS |
| CA_38C | 16QAM | 37850+38048 | 100RB#0/100RB#0 | TN | HV | -2.51 | -0.000971 | PASS |
| CA_38C | 16QAM | 37901+38099 | 100RB#0/100RB#0 | TN | LV | -3.32 | -0.001283 | PASS |
| CA_38C | 16QAM | 37901+38099 | 100RB#0/100RB#0 | TN | NV | 10.84 | 0.004194 | PASS |
| CA_38C | 16QAM | 37901+38099 | 100RB#0/100RB#0 | TN | HV | 11.43 | 0.004422 | PASS |
| CA_38C | 16QAM | 37952+38150 | 100RB#0/100RB#0 | TN | LV | 7.40 | 0.002856 | PASS |
| CA_38C | 16QAM | 37952+38150 | 100RB#0/100RB#0 | TN | NV | 0.47 | 0.000182 | PASS |
| CA_38C | 16QAM | 37952+38150 | 100RB#0/100RB#0 | TN | HV | 3.10 | 0.001198 | PASS |
| CA_38C | 64QAM | 37850+38048 | 100RB#0/100RB#0 | TN | LV | 2.21 | 0.000857 | PASS |
| CA_38C | 64QAM | 37850+38048 | 100RB#0/100RB#0 | TN | NV | -4.41 | -0.001708 | PASS |
| CA_38C | 64QAM | 37850+38048 | 100RB#0/100RB#0 | TN | HV | -8.19 | -0.003173 | PASS |
| CA_38C | 64QAM | 37901+38099 | 100RB#0/100RB#0 | TN | LV | 3.65 | 0.001411 | PASS |
| CA_38C | 64QAM | 37901+38099 | 100RB#0/100RB#0 | TN | NV | -6.32 | -0.002445 | PASS |
| CA_38C | 64QAM | 37901+38099 | 100RB#0/100RB#0 | TN | HV | -6.59 | -0.002551 | PASS |
| CA_38C | 64QAM | 37952+38150 | 100RB#0/100RB#0 | TN | LV | -1.49 | -0.000575 | PASS |
| CA_38C | 64QAM | 37952+38150 | 100RB#0/100RB#0 | TN | NV | -1.15 | -0.000444 | PASS |
| CA_38C | 64QAM | 37952+38150 | 100RB#0/100RB#0 | TN | HV | -11.53 | -0.004453 | PASS |

8.2 Frequency Error VS. Temperature

| Test Band | Test Mode | Test Channel | RB Config | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|-----------------|------------|------------|------------------|-----------------------|---------|
| CA_38C | QPSK | 37850+38048 | 100RB#0/100RB#0 | NV | -30 | -10.62 | -0.004115 | PASS |
| CA_38C | QPSK | 37850+38048 | 100RB#0/100RB#0 | NV | -20 | 4.71 | 0.001824 | PASS |
| CA_38C | QPSK | 37850+38048 | 100RB#0/100RB#0 | NV | -10 | -9.07 | -0.003516 | PASS |
| CA_38C | QPSK | 37850+38048 | 100RB#0/100RB#0 | NV | 0 | 4.05 | 0.001570 | PASS |
| CA_38C | QPSK | 37850+38048 | 100RB#0/100RB#0 | NV | 10 | -2.60 | -0.001007 | PASS |
| CA_38C | QPSK | 37850+38048 | 100RB#0/100RB#0 | NV | 20 | 9.01 | 0.003491 | PASS |
| CA_38C | QPSK | 37850+38048 | 100RB#0/100RB#0 | NV | 30 | -12.08 | -0.004681 | PASS |



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| | | | | | | | | |
|--------|-------|-------------|-----------------|----|-----|--------|-----------|------|
| CA_38C | QPSK | 37850+38048 | 100RB#0/100RB#0 | NV | 40 | 8.27 | 0.003206 | PASS |
| CA_38C | QPSK | 37850+38048 | 100RB#0/100RB#0 | NV | 50 | 4.51 | 0.001748 | PASS |
| CA_38C | QPSK | 37901+38099 | 100RB#0/100RB#0 | NV | -30 | 10.85 | 0.004196 | PASS |
| CA_38C | QPSK | 37901+38099 | 100RB#0/100RB#0 | NV | -20 | 5.02 | 0.001942 | PASS |
| CA_38C | QPSK | 37901+38099 | 100RB#0/100RB#0 | NV | -10 | 1.78 | 0.000687 | PASS |
| CA_38C | QPSK | 37901+38099 | 100RB#0/100RB#0 | NV | 0 | 1.56 | 0.000605 | PASS |
| CA_38C | QPSK | 37901+38099 | 100RB#0/100RB#0 | NV | 10 | -1.82 | -0.000704 | PASS |
| CA_38C | QPSK | 37901+38099 | 100RB#0/100RB#0 | NV | 20 | 5.86 | 0.002266 | PASS |
| CA_38C | QPSK | 37901+38099 | 100RB#0/100RB#0 | NV | 30 | -11.63 | -0.004501 | PASS |
| CA_38C | QPSK | 37901+38099 | 100RB#0/100RB#0 | NV | 40 | -8.74 | -0.003379 | PASS |
| CA_38C | QPSK | 37901+38099 | 100RB#0/100RB#0 | NV | 50 | 2.91 | 0.001125 | PASS |
| CA_38C | QPSK | 37952+38150 | 100RB#0/100RB#0 | NV | -30 | -9.80 | -0.003784 | PASS |
| CA_38C | QPSK | 37952+38150 | 100RB#0/100RB#0 | NV | -20 | 2.06 | 0.000796 | PASS |
| CA_38C | QPSK | 37952+38150 | 100RB#0/100RB#0 | NV | -10 | -7.36 | -0.002842 | PASS |
| CA_38C | QPSK | 37952+38150 | 100RB#0/100RB#0 | NV | 0 | -0.28 | -0.000106 | PASS |
| CA_38C | QPSK | 37952+38150 | 100RB#0/100RB#0 | NV | 10 | 4.86 | 0.001876 | PASS |
| CA_38C | QPSK | 37952+38150 | 100RB#0/100RB#0 | NV | 20 | 5.29 | 0.002044 | PASS |
| CA_38C | QPSK | 37952+38150 | 100RB#0/100RB#0 | NV | 30 | 5.34 | 0.002062 | PASS |
| CA_38C | QPSK | 37952+38150 | 100RB#0/100RB#0 | NV | 40 | -3.89 | -0.001500 | PASS |
| CA_38C | QPSK | 37952+38150 | 100RB#0/100RB#0 | NV | 50 | 8.15 | 0.003147 | PASS |
| CA_38C | 16QAM | 37850+38048 | 100RB#0/100RB#0 | NV | -30 | -0.89 | -0.000343 | PASS |
| CA_38C | 16QAM | 37850+38048 | 100RB#0/100RB#0 | NV | -20 | 3.97 | 0.001538 | PASS |
| CA_38C | 16QAM | 37850+38048 | 100RB#0/100RB#0 | NV | -10 | -1.93 | -0.000747 | PASS |
| CA_38C | 16QAM | 37850+38048 | 100RB#0/100RB#0 | NV | 0 | 8.87 | 0.003438 | PASS |
| CA_38C | 16QAM | 37850+38048 | 100RB#0/100RB#0 | NV | 10 | -7.07 | -0.002739 | PASS |
| CA_38C | 16QAM | 37850+38048 | 100RB#0/100RB#0 | NV | 20 | 0.10 | 0.000038 | PASS |
| CA_38C | 16QAM | 37850+38048 | 100RB#0/100RB#0 | NV | 30 | -12.36 | -0.004790 | PASS |
| CA_38C | 16QAM | 37850+38048 | 100RB#0/100RB#0 | NV | 40 | 13.22 | 0.005123 | PASS |
| CA_38C | 16QAM | 37850+38048 | 100RB#0/100RB#0 | NV | 50 | 5.60 | 0.002171 | PASS |
| CA_38C | 16QAM | 37901+38099 | 100RB#0/100RB#0 | NV | -30 | -4.66 | -0.001803 | PASS |
| CA_38C | 16QAM | 37901+38099 | 100RB#0/100RB#0 | NV | -20 | -11.82 | -0.004571 | PASS |
| CA_38C | 16QAM | 37901+38099 | 100RB#0/100RB#0 | NV | -10 | -7.32 | -0.002831 | PASS |
| CA_38C | 16QAM | 37901+38099 | 100RB#0/100RB#0 | NV | 0 | -6.45 | -0.002496 | PASS |
| CA_38C | 16QAM | 37901+38099 | 100RB#0/100RB#0 | NV | 10 | 4.54 | 0.001756 | PASS |
| CA_38C | 16QAM | 37901+38099 | 100RB#0/100RB#0 | NV | 20 | 7.55 | 0.002922 | PASS |
| CA_38C | 16QAM | 37901+38099 | 100RB#0/100RB#0 | NV | 30 | 1.98 | 0.000764 | PASS |
| CA_38C | 16QAM | 37901+38099 | 100RB#0/100RB#0 | NV | 40 | 5.74 | 0.002219 | PASS |
| CA_38C | 16QAM | 37901+38099 | 100RB#0/100RB#0 | NV | 50 | 9.40 | 0.003635 | PASS |
| CA_38C | 16QAM | 37952+38150 | 100RB#0/100RB#0 | NV | -30 | -0.23 | -0.000090 | PASS |
| CA_38C | 16QAM | 37952+38150 | 100RB#0/100RB#0 | NV | -20 | -2.18 | -0.000840 | PASS |
| CA_38C | 16QAM | 37952+38150 | 100RB#0/100RB#0 | NV | -10 | -1.61 | -0.000621 | PASS |
| CA_38C | 16QAM | 37952+38150 | 100RB#0/100RB#0 | NV | 0 | -10.45 | -0.004033 | PASS |
| CA_38C | 16QAM | 37952+38150 | 100RB#0/100RB#0 | NV | 10 | 5.31 | 0.002049 | PASS |
| CA_38C | 16QAM | 37952+38150 | 100RB#0/100RB#0 | NV | 20 | -7.52 | -0.002904 | PASS |



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| | | | | | | | | |
|--------|-------|-------------|-----------------|----|-----|--------|-----------|------|
| CA_38C | 16QAM | 37952+38150 | 100RB#0/100RB#0 | NV | 30 | 8.12 | 0.003134 | PASS |
| CA_38C | 16QAM | 37952+38150 | 100RB#0/100RB#0 | NV | 40 | 3.13 | 0.001208 | PASS |
| CA_38C | 16QAM | 37952+38150 | 100RB#0/100RB#0 | NV | 50 | -10.76 | -0.004152 | PASS |
| CA_38C | 64QAM | 37850+38048 | 100RB#0/100RB#0 | NV | -30 | -6.72 | -0.002606 | PASS |
| CA_38C | 64QAM | 37850+38048 | 100RB#0/100RB#0 | NV | -20 | 3.89 | 0.001507 | PASS |
| CA_38C | 64QAM | 37850+38048 | 100RB#0/100RB#0 | NV | -10 | -7.50 | -0.002907 | PASS |
| CA_38C | 64QAM | 37850+38048 | 100RB#0/100RB#0 | NV | 0 | -8.53 | -0.003306 | PASS |
| CA_38C | 64QAM | 37850+38048 | 100RB#0/100RB#0 | NV | 10 | 4.87 | 0.001889 | PASS |
| CA_38C | 64QAM | 37850+38048 | 100RB#0/100RB#0 | NV | 20 | -0.71 | -0.000276 | PASS |
| CA_38C | 64QAM | 37850+38048 | 100RB#0/100RB#0 | NV | 30 | 0.13 | 0.000049 | PASS |
| CA_38C | 64QAM | 37850+38048 | 100RB#0/100RB#0 | NV | 40 | 8.26 | 0.003203 | PASS |
| CA_38C | 64QAM | 37850+38048 | 100RB#0/100RB#0 | NV | 50 | 0.77 | 0.000298 | PASS |
| CA_38C | 64QAM | 37901+38099 | 100RB#0/100RB#0 | NV | -30 | 8.22 | 0.003181 | PASS |
| CA_38C | 64QAM | 37901+38099 | 100RB#0/100RB#0 | NV | -20 | 6.07 | 0.002349 | PASS |
| CA_38C | 64QAM | 37901+38099 | 100RB#0/100RB#0 | NV | -10 | 2.70 | 0.001046 | PASS |
| CA_38C | 64QAM | 37901+38099 | 100RB#0/100RB#0 | NV | 0 | 0.18 | 0.000069 | PASS |
| CA_38C | 64QAM | 37901+38099 | 100RB#0/100RB#0 | NV | 10 | 3.42 | 0.001324 | PASS |
| CA_38C | 64QAM | 37901+38099 | 100RB#0/100RB#0 | NV | 20 | -4.52 | -0.001748 | PASS |
| CA_38C | 64QAM | 37901+38099 | 100RB#0/100RB#0 | NV | 30 | 1.77 | 0.000685 | PASS |
| CA_38C | 64QAM | 37901+38099 | 100RB#0/100RB#0 | NV | 40 | 3.77 | 0.001459 | PASS |
| CA_38C | 64QAM | 37901+38099 | 100RB#0/100RB#0 | NV | 50 | 7.71 | 0.002984 | PASS |
| CA_38C | 64QAM | 37952+38150 | 100RB#0/100RB#0 | NV | -30 | -12.55 | -0.004845 | PASS |
| CA_38C | 64QAM | 37952+38150 | 100RB#0/100RB#0 | NV | -20 | -6.05 | -0.002335 | PASS |
| CA_38C | 64QAM | 37952+38150 | 100RB#0/100RB#0 | NV | -10 | -11.90 | -0.004594 | PASS |
| CA_38C | 64QAM | 37952+38150 | 100RB#0/100RB#0 | NV | 0 | -4.40 | -0.001700 | PASS |
| CA_38C | 64QAM | 37952+38150 | 100RB#0/100RB#0 | NV | 10 | 10.14 | 0.003915 | PASS |
| CA_38C | 64QAM | 37952+38150 | 100RB#0/100RB#0 | NV | 20 | 11.48 | 0.004434 | PASS |
| CA_38C | 64QAM | 37952+38150 | 100RB#0/100RB#0 | NV | 30 | -0.62 | -0.000241 | PASS |
| CA_38C | 64QAM | 37952+38150 | 100RB#0/100RB#0 | NV | 40 | -12.63 | -0.004876 | PASS |
| CA_38C | 64QAM | 37952+38150 | 100RB#0/100RB#0 | NV | 50 | 5.47 | 0.002110 | PASS |

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