



# Appendix B

## E-UTRA Band 14



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

| Band   | Bandwidth<br>h | Modulation | Channel | RB<br>Configuration | Conducted<br>Power(dBm) | ERP<br>(dBm) | limit<br>(dBm) | Verdict |
|--------|----------------|------------|---------|---------------------|-------------------------|--------------|----------------|---------|
| Band14 | 5MHz           | QPSK       | 23305   | 1RB#0               | 23.17                   | 23.02        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23305   | 1RB#12              | 23.19                   | 23.04        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23305   | 1RB#24              | 23.19                   | 23.04        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23305   | 12RB#0              | 22.28                   | 22.13        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23305   | 12RB#6              | 22.32                   | 22.17        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23305   | 12RB#13             | 22.32                   | 22.17        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23305   | 25RB#0              | 22.37                   | 22.22        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23330   | 1RB#0               | 23.12                   | 22.97        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23330   | 1RB#12              | 23.14                   | 22.99        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23330   | 1RB#24              | 23.15                   | 23           | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23330   | 12RB#0              | 22.23                   | 22.08        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23330   | 12RB#6              | 22.30                   | 22.15        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23330   | 12RB#13             | 22.29                   | 22.14        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23330   | 25RB#0              | 22.32                   | 22.17        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23355   | 1RB#0               | 23.13                   | 22.98        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23355   | 1RB#12              | 23.15                   | 23           | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23355   | 1RB#24              | 23.10                   | 22.95        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23355   | 12RB#6              | 22.23                   | 22.08        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23355   | 12RB#0              | 22.23                   | 22.08        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23355   | 12RB#13             | 22.22                   | 22.07        | 34.77          | PASS    |
| Band14 | 5MHz           | QPSK       | 23355   | 25RB#0              | 22.25                   | 22.1         | 34.77          | PASS    |
| Band14 | 5MHz           | 64QAM      | 23305   | 1RB#24              | 21.34                   | 21.19        | 34.77          | PASS    |
| Band14 | 5MHz           | 64QAM      | 23305   | 1RB#0               | 21.42                   | 21.27        | 34.77          | PASS    |
| Band14 | 5MHz           | 64QAM      | 23305   | 1RB#12              | 21.48                   | 21.33        | 34.77          | PASS    |
| Band14 | 5MHz           | 64QAM      | 23305   | 12RB#0              | 20.35                   | 20.2         | 34.77          | PASS    |
| Band14 | 5MHz           | 64QAM      | 23305   | 12RB#6              | 20.48                   | 20.33        | 34.77          | PASS    |
| Band14 | 5MHz           | 64QAM      | 23305   | 12RB#13             | 20.44                   | 20.29        | 34.77          | PASS    |



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|        |      |       |       |         |       |       |       |      |
|--------|------|-------|-------|---------|-------|-------|-------|------|
| Band14 | 5MHz | 64QAM | 23305 | 25RB#0  | 20.39 | 20.24 | 34.77 | PASS |
| Band14 | 5MHz | 64QAM | 23330 | 1RB#0   | 21.30 | 21.15 | 34.77 | PASS |
| Band14 | 5MHz | 64QAM | 23330 | 1RB#24  | 21.45 | 21.3  | 34.77 | PASS |
| Band14 | 5MHz | 64QAM | 23330 | 1RB#12  | 21.40 | 21.25 | 34.77 | PASS |
| Band14 | 5MHz | 64QAM | 23330 | 12RB#13 | 20.39 | 20.24 | 34.77 | PASS |
| Band14 | 5MHz | 64QAM | 23330 | 12RB#6  | 20.37 | 20.22 | 34.77 | PASS |
| Band14 | 5MHz | 64QAM | 23330 | 12RB#0  | 20.31 | 20.16 | 34.77 | PASS |
| Band14 | 5MHz | 64QAM | 23330 | 25RB#0  | 20.37 | 20.22 | 34.77 | PASS |
| Band14 | 5MHz | 64QAM | 23355 | 1RB#12  | 21.47 | 21.32 | 34.77 | PASS |
| Band14 | 5MHz | 64QAM | 23355 | 1RB#0   | 21.33 | 21.18 | 34.77 | PASS |
| Band14 | 5MHz | 64QAM | 23355 | 1RB#24  | 21.37 | 21.22 | 34.77 | PASS |
| Band14 | 5MHz | 64QAM | 23355 | 12RB#0  | 20.36 | 20.21 | 34.77 | PASS |
| Band14 | 5MHz | 64QAM | 23355 | 12RB#6  | 20.35 | 20.2  | 34.77 | PASS |
| Band14 | 5MHz | 64QAM | 23355 | 12RB#13 | 20.36 | 20.21 | 34.77 | PASS |
| Band14 | 5MHz | 64QAM | 23355 | 25RB#0  | 20.30 | 20.15 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 1RB#0   | 22.49 | 22.34 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 1RB#12  | 22.50 | 22.35 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 1RB#24  | 22.51 | 22.36 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 12RB#0  | 21.34 | 21.19 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 12RB#6  | 21.37 | 21.22 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 12RB#13 | 21.36 | 21.21 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 25RB#0  | 21.31 | 21.16 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23330 | 1RB#0   | 22.27 | 22.12 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23330 | 1RB#24  | 22.44 | 22.29 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23330 | 1RB#12  | 22.48 | 22.33 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23330 | 12RB#0  | 21.26 | 21.11 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23330 | 12RB#13 | 21.36 | 21.21 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23330 | 12RB#6  | 21.40 | 21.25 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23330 | 25RB#0  | 21.28 | 21.13 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23355 | 1RB#24  | 22.28 | 22.13 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23355 | 1RB#12  | 22.42 | 22.27 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23355 | 1RB#0   | 22.28 | 22.13 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23355 | 12RB#13 | 21.31 | 21.16 | 34.77 | PASS |



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|        |       |       |       |         |       |       |       |      |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band14 | 5MHz  | 16QAM | 23355 | 12RB#6  | 21.29 | 21.14 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23355 | 12RB#0  | 21.25 | 21.1  | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23355 | 25RB#0  | 21.20 | 21.05 | 34.77 | PASS |
| Band14 | 10MHz | QPSK  | 23330 | 1RB#24  | 23.05 | 22.9  | 34.77 | PASS |
| Band14 | 10MHz | QPSK  | 23330 | 1RB#0   | 23.25 | 23.1  | 34.77 | PASS |
| Band14 | 10MHz | QPSK  | 23330 | 1RB#49  | 23.16 | 23.01 | 34.77 | PASS |
| Band14 | 10MHz | QPSK  | 23330 | 25RB#25 | 22.18 | 22.03 | 34.77 | PASS |
| Band14 | 10MHz | QPSK  | 23330 | 25RB#0  | 22.31 | 22.16 | 34.77 | PASS |
| Band14 | 10MHz | QPSK  | 23330 | 25RB#12 | 22.28 | 22.13 | 34.77 | PASS |
| Band14 | 10MHz | QPSK  | 23330 | 50RB#0  | 22.27 | 22.12 | 34.77 | PASS |
| Band14 | 10MHz | 64QAM | 23330 | 1RB#49  | 21.28 | 21.13 | 34.77 | PASS |
| Band14 | 10MHz | 64QAM | 23330 | 1RB#0   | 21.43 | 21.28 | 34.77 | PASS |
| Band14 | 10MHz | 64QAM | 23330 | 1RB#24  | 21.21 | 21.06 | 34.77 | PASS |
| Band14 | 10MHz | 64QAM | 23330 | 25RB#25 | 20.30 | 20.15 | 34.77 | PASS |
| Band14 | 10MHz | 64QAM | 23330 | 25RB#0  | 20.34 | 20.19 | 34.77 | PASS |
| Band14 | 10MHz | 64QAM | 23330 | 25RB#12 | 20.35 | 20.2  | 34.77 | PASS |
| Band14 | 10MHz | 64QAM | 23330 | 50RB#0  | 20.32 | 20.17 | 34.77 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 1RB#24  | 22.38 | 22.23 | 34.77 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 1RB#49  | 22.37 | 22.22 | 34.77 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 1RB#0   | 22.38 | 22.23 | 34.77 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 25RB#12 | 21.30 | 21.15 | 34.77 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 25RB#0  | 21.30 | 21.15 | 34.77 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 25RB#25 | 21.16 | 21.01 | 34.77 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 50RB#0  | 21.27 | 21.12 | 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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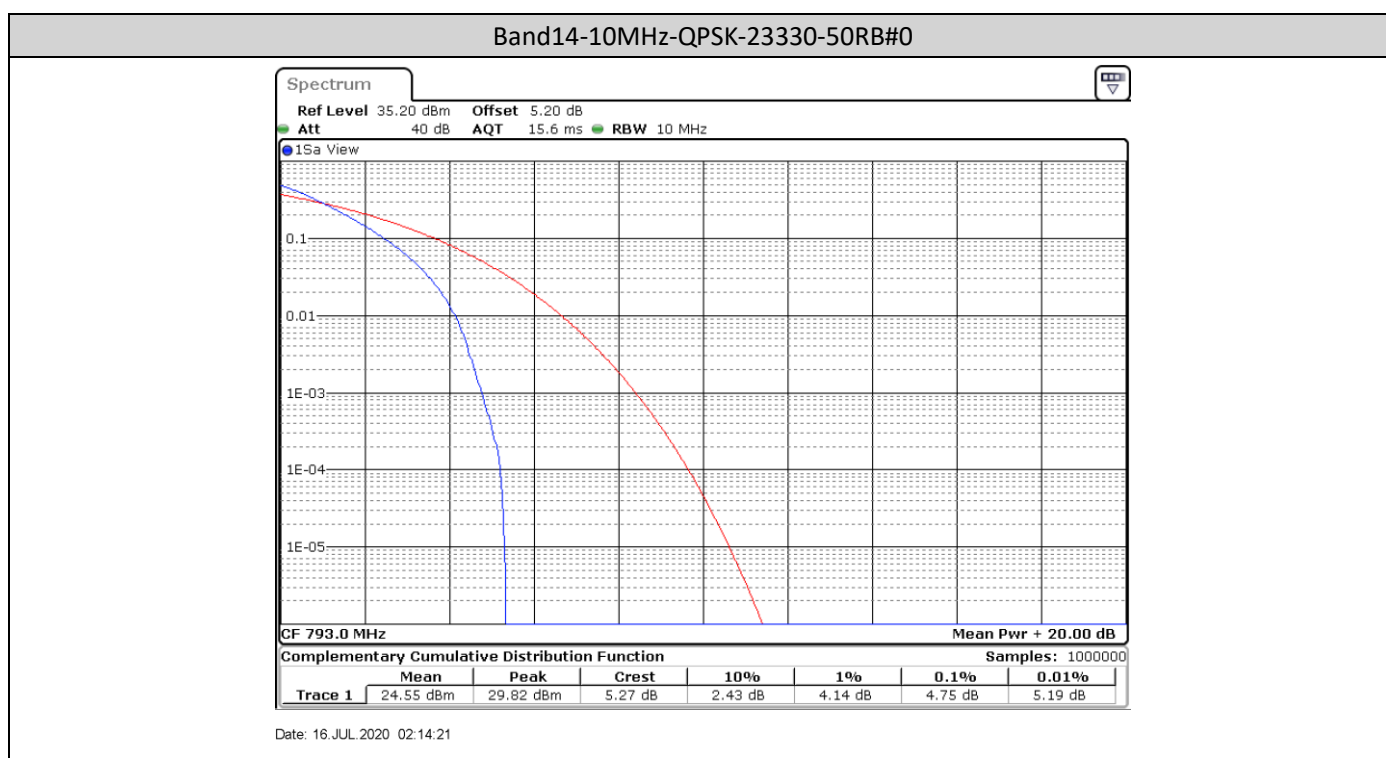


## 2. Peak-to-Average Ratio (CCDF)

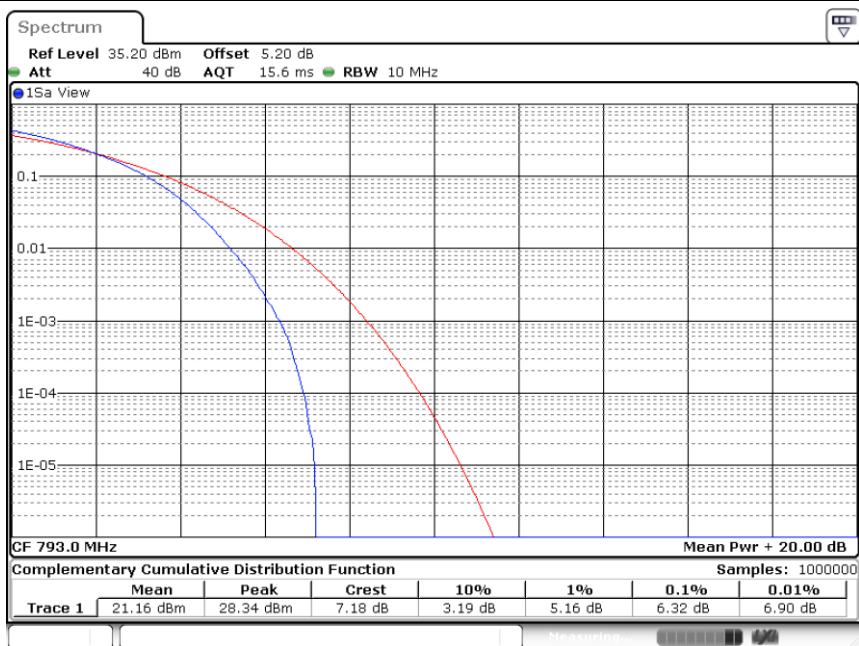
### 2.1. Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0           | 4.75       | 13        | PASS    |
| Band14 | 10MHz     | 64QAM      | 23330   | 50RB#0           | 6.32       | 13        | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0           | 5.71       | 13        | PASS    |

### 2.2. Test Plots



## Band14-10MHz-64QAM-23330-50RB#0



Date: 11.AUG.2020 08:55:36

## Band14-10MHz-16QAM-23330-50RB#0



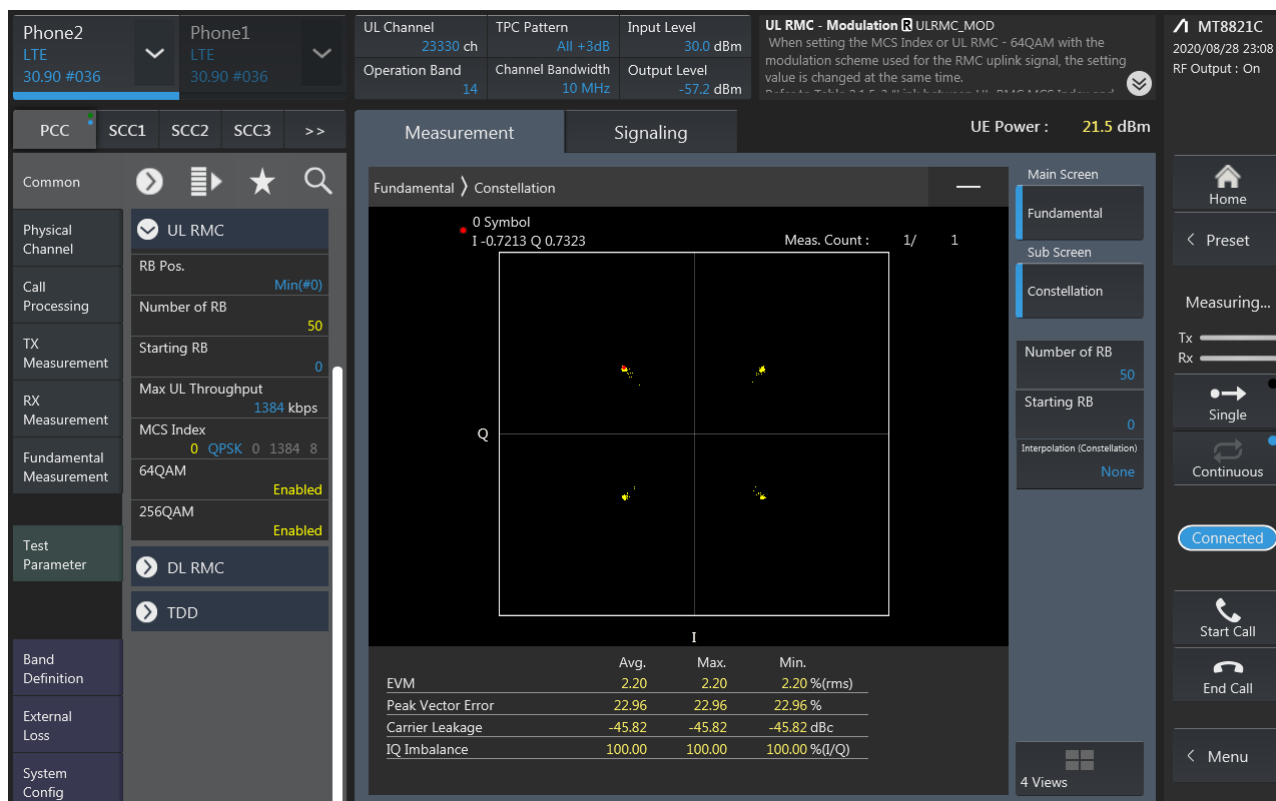
Date: 16.JUL.2020 02:14:32



## 3. Modulation Characteristics

### 3.1. Test Mode = LTE /TM1 10MHz

#### 3.1.1. Test Channel = MCH



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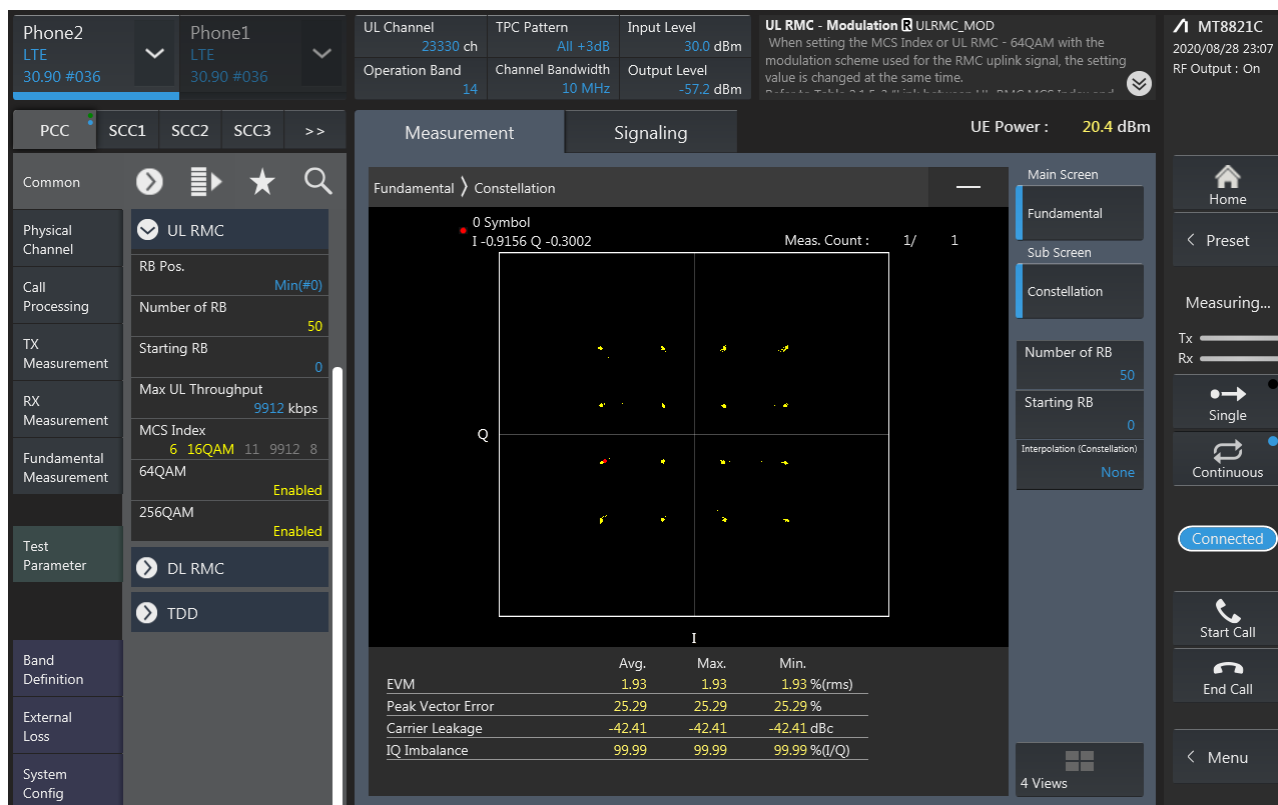
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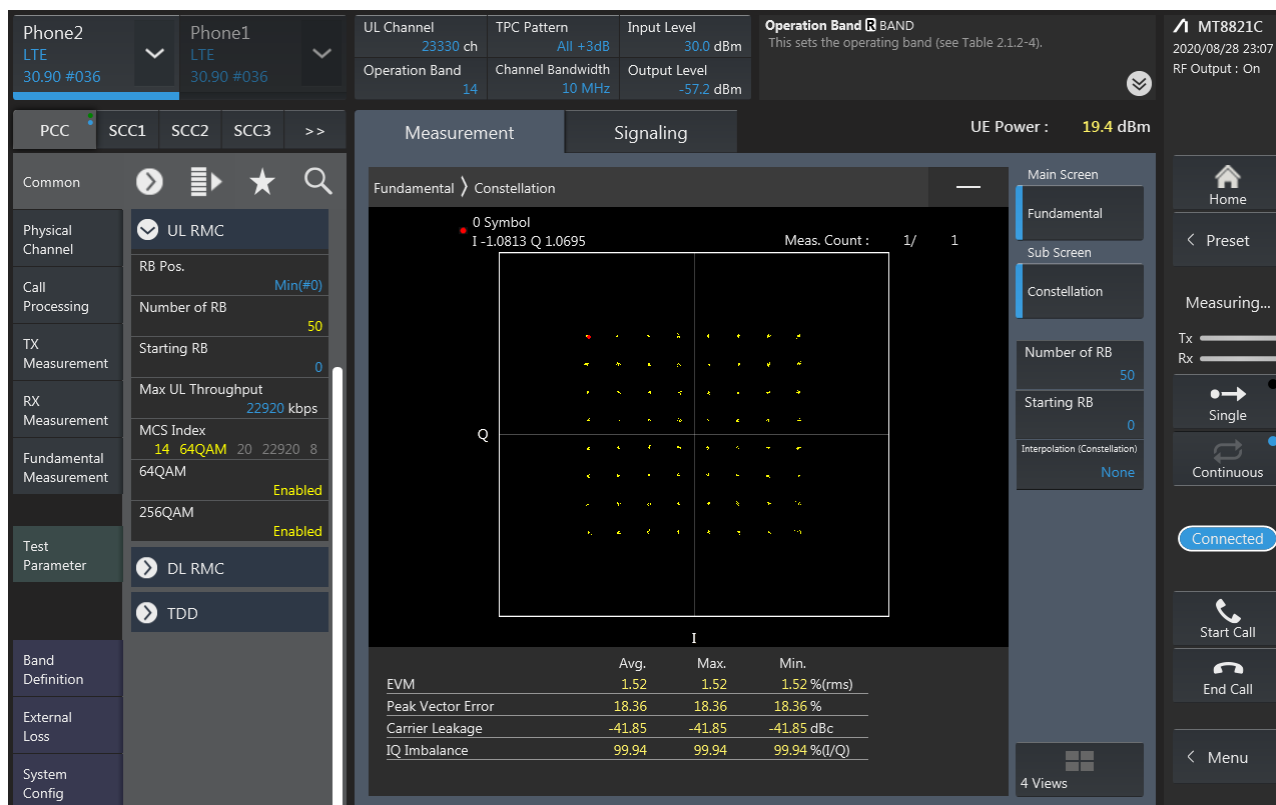
## 3.2. Test Mode = LTE /TM2 10MHz

### 3.2.1.Test Channel = MCH



## 3.3. Test Mode = LTE /TM3 10MHz

### 3.3.1. Test Channel = MCH





## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

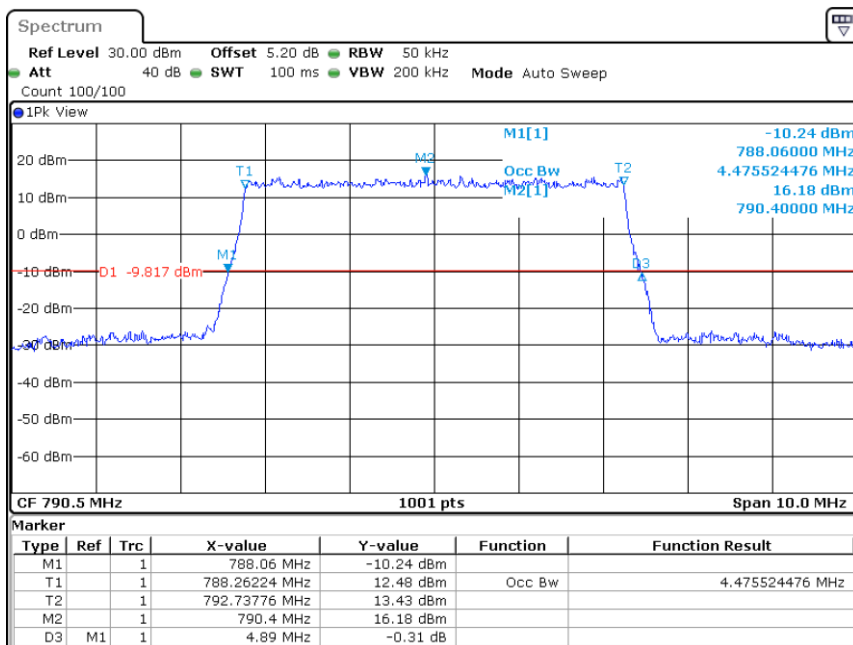
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band14 | 5MHz      | QPSK       | 23305   | 25RB#0           | 4.476                    | 4.890                | PASS    |
| Band14 | 5MHz      | QPSK       | 23330   | 25RB#0           | 4.476                    | 4.890                | PASS    |
| Band14 | 5MHz      | QPSK       | 23355   | 25RB#0           | 4.476                    | 4.890                | PASS    |
| Band14 | 5MHz      | 64QAM      | 23305   | 25RB#0           | 4.476                    | 4.890                | PASS    |
| Band14 | 5MHz      | 64QAM      | 23330   | 25RB#0           | 4.466                    | 4.880                | PASS    |
| Band14 | 5MHz      | 64QAM      | 23355   | 25RB#0           | 4.476                    | 4.870                | PASS    |
| Band14 | 5MHz      | 16QAM      | 23305   | 25RB#0           | 4.476                    | 4.910                | PASS    |
| Band14 | 5MHz      | 16QAM      | 23330   | 25RB#0           | 4.486                    | 4.920                | PASS    |
| Band14 | 5MHz      | 16QAM      | 23355   | 25RB#0           | 4.486                    | 4.910                | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0           | 8.931                    | 9.700                | PASS    |
| Band14 | 10MHz     | 64QAM      | 23330   | 50RB#0           | 8.911                    | 9.620                | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0           | 8.951                    | 9.680                | PASS    |





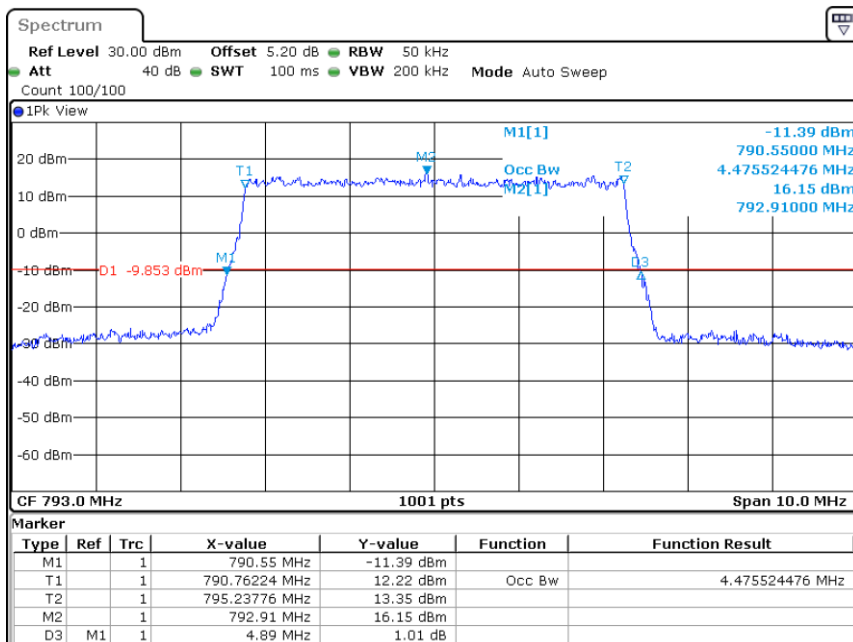
## 4.2. Test Plots

Band14-5MHz-QPSK-23305-25RB#0-4.476



Date: 16 JUL 2020 02:04:15

Band14-5MHz-QPSK-23330-25RB#0-4.476



Date: 16 JUL 2020 02:04:55



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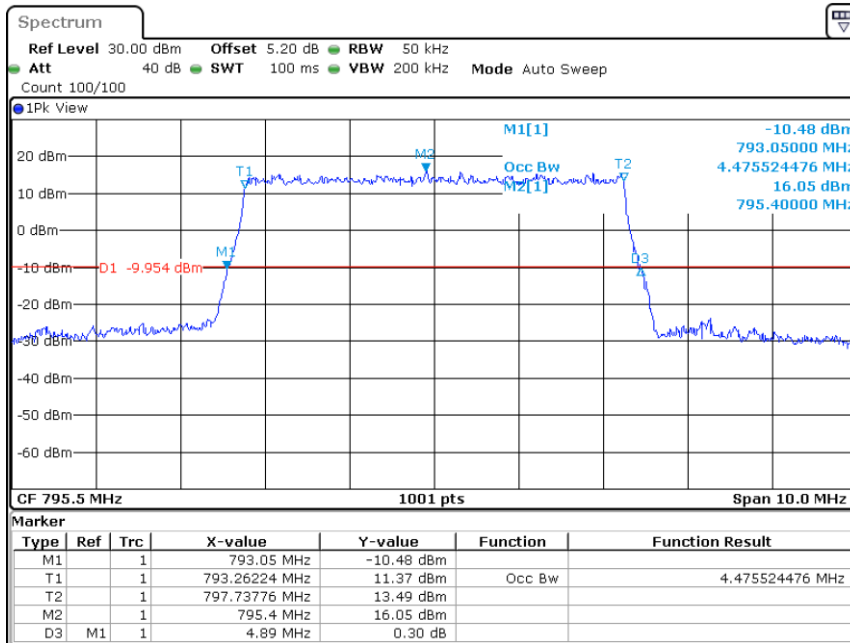
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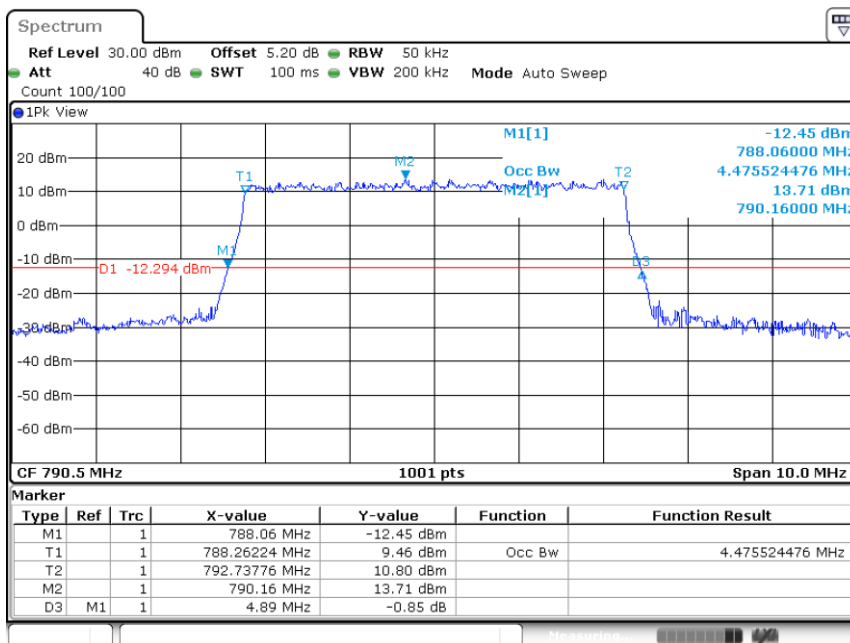


Band14-5MHz-QPSK-23355-25RB#0-4.476



Date: 16 JUL 2020 02:05:34

Band14-5MHz-64QAM-23305-25RB#0-4.476

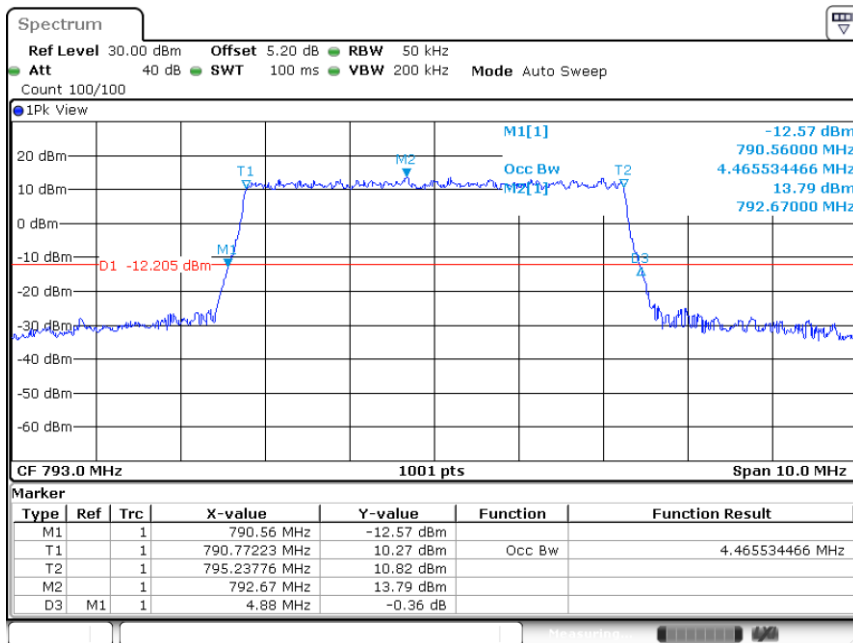


Date: 11 AUG 2020 08:50:57



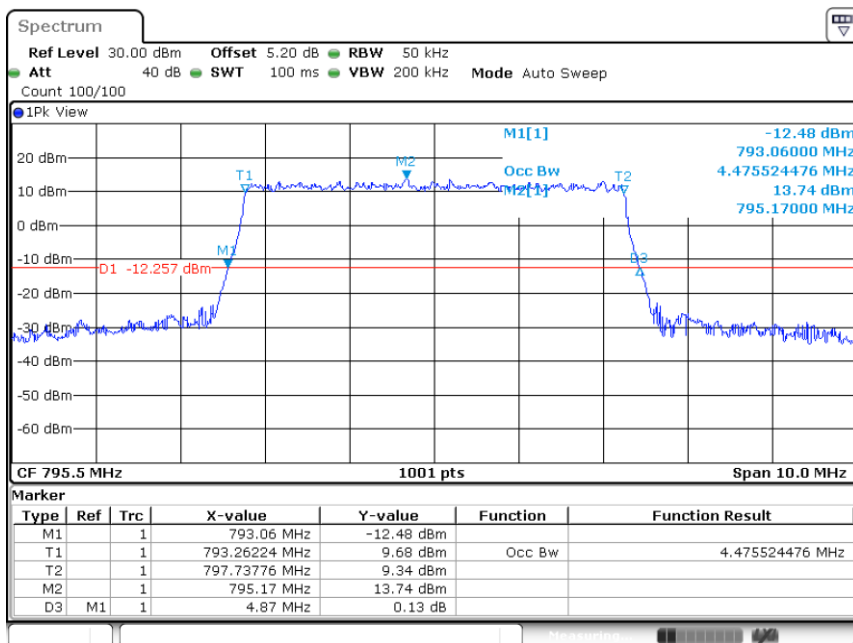


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Date: 11.AUG.2020 08:51:17

Band14-5MHz-64QAM-23355-25RB#0-4.476



Date: 11.AUG.2020 08:51:37



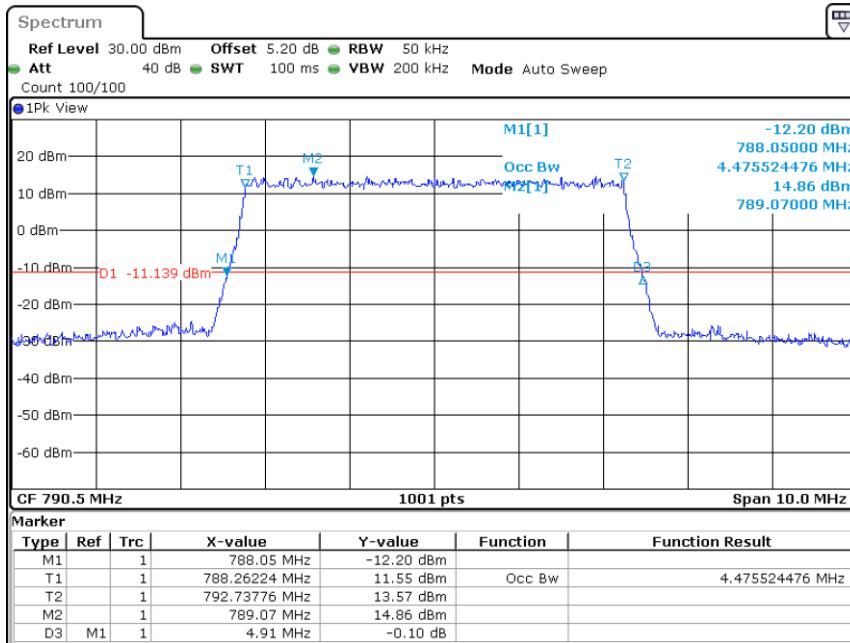
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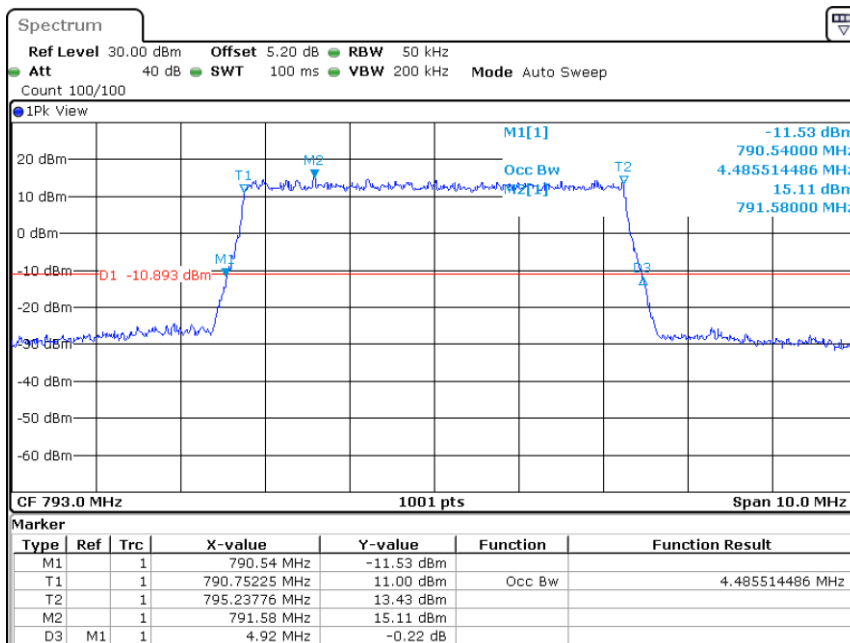


Band14-5MHz-16QAM-23305-25RB#0-4.476



Date: 16 JUL 2020 02:04:35

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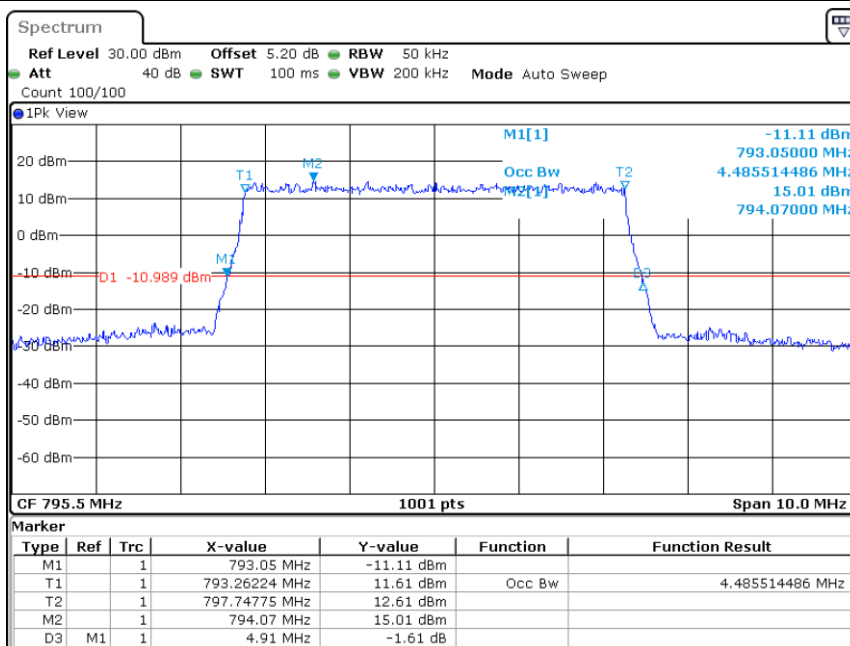


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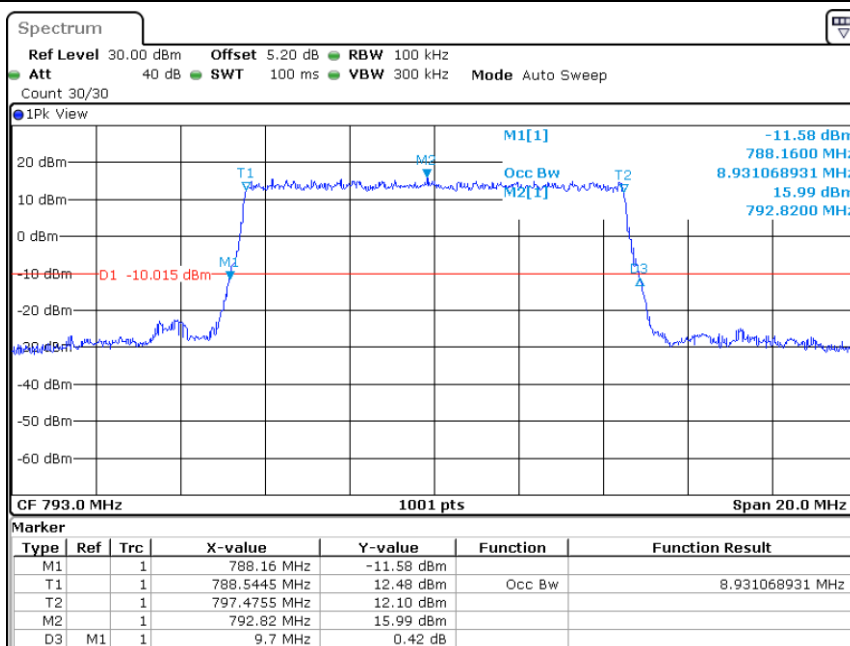


Band14-5MHz-16QAM-23355-25RB#0-4.486



Date: 16 JUL 2020 02:05:54

Band14-10MHz-QPSK-23330-50RB#0-8.931



Date: 16 JUL 2020 02:06:11



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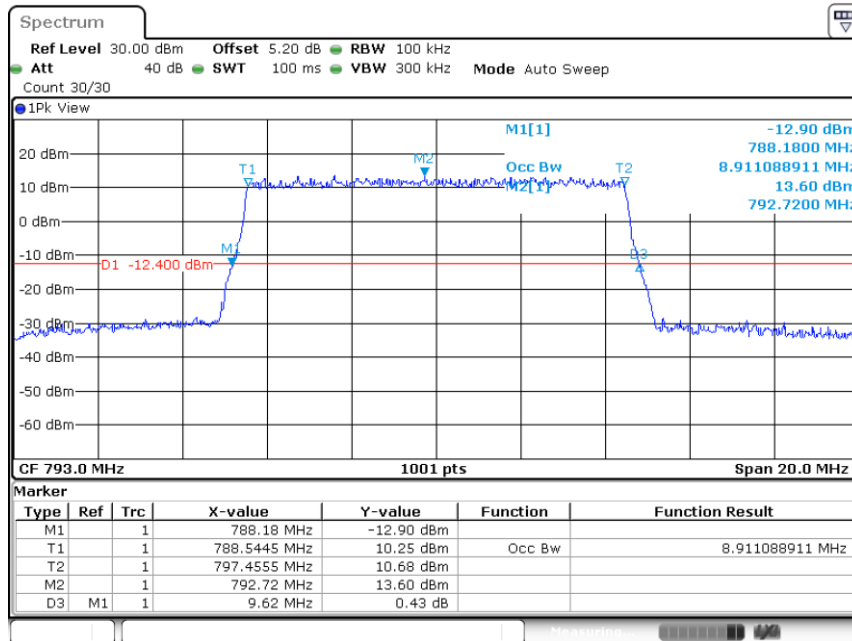
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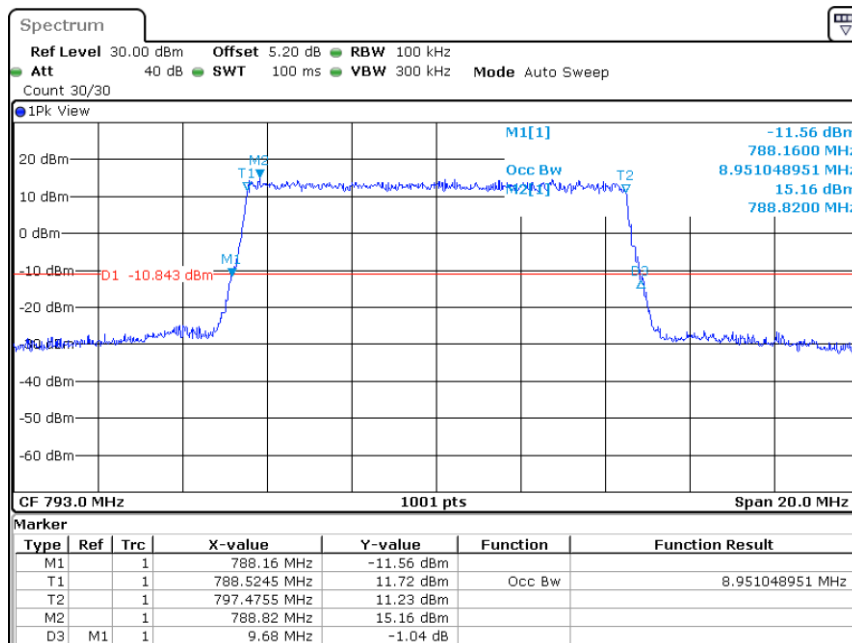


Band14-10MHz-64QAM-23330-50RB#0-8.911



Date: 11.AUG.2020 08:51:56

Band14-10MHz-16QAM-23330-50RB#0-8.951



Date: 16.JUL.2020 02:06:23



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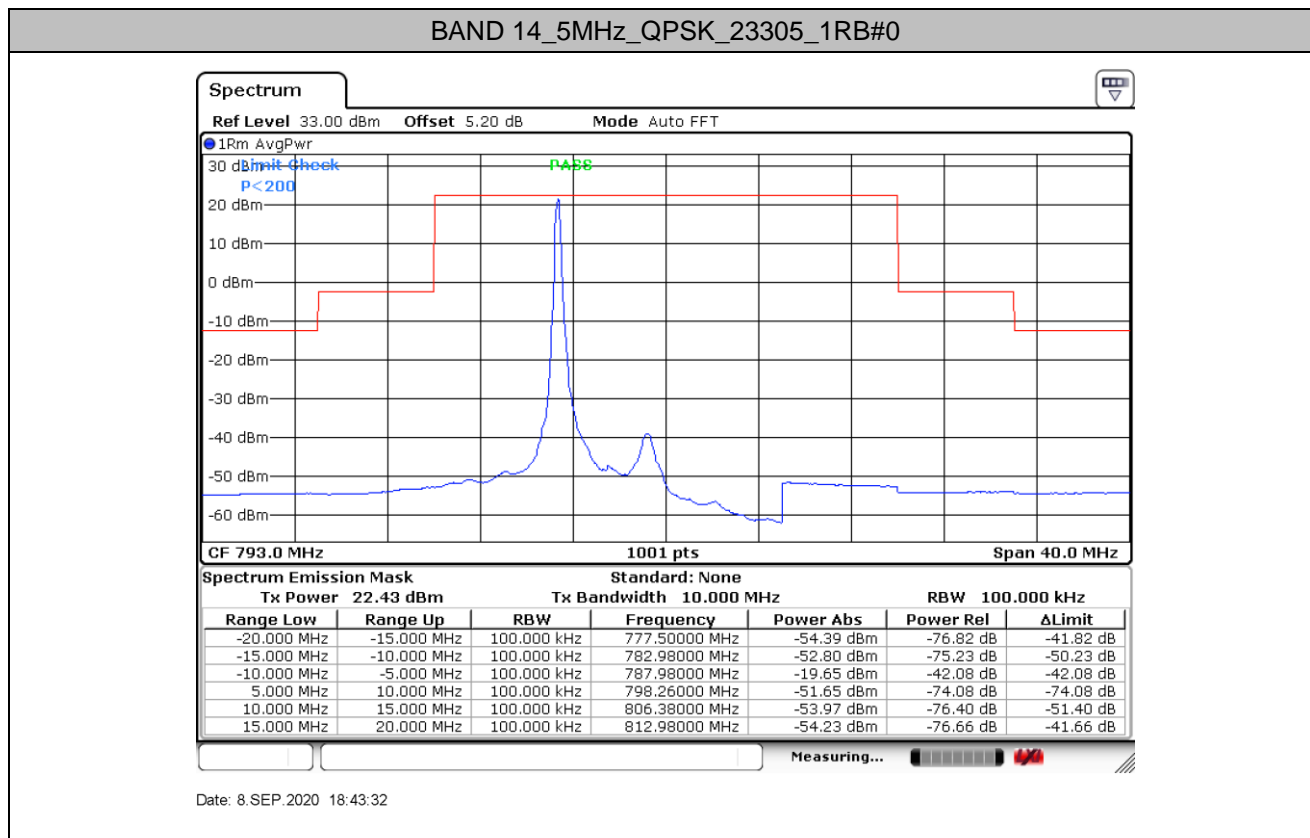
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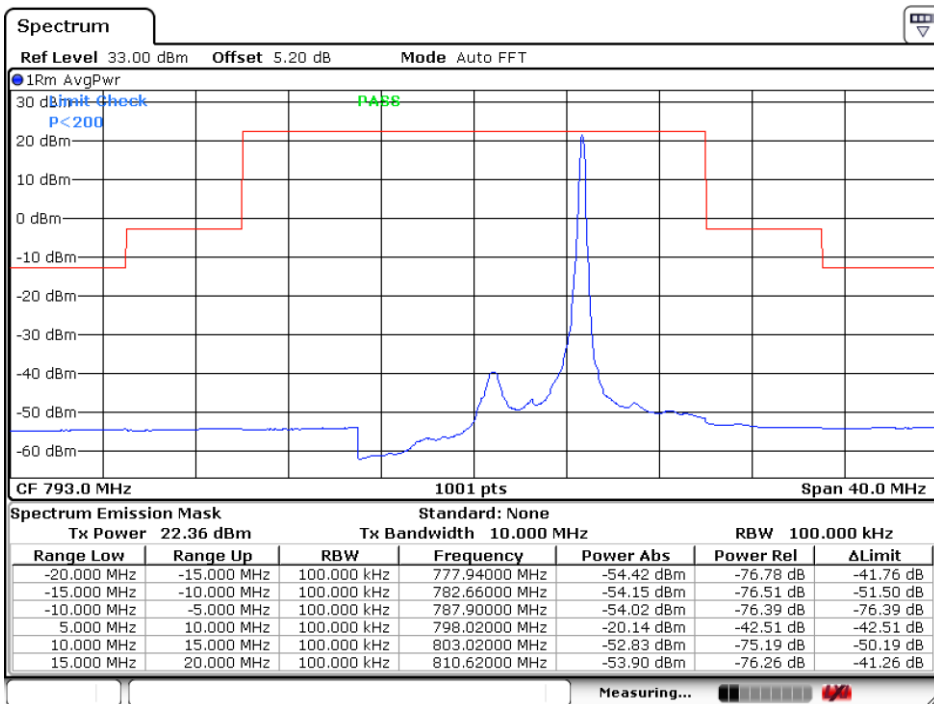
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## 5. Emission Mask

### 5.1. Test Plots



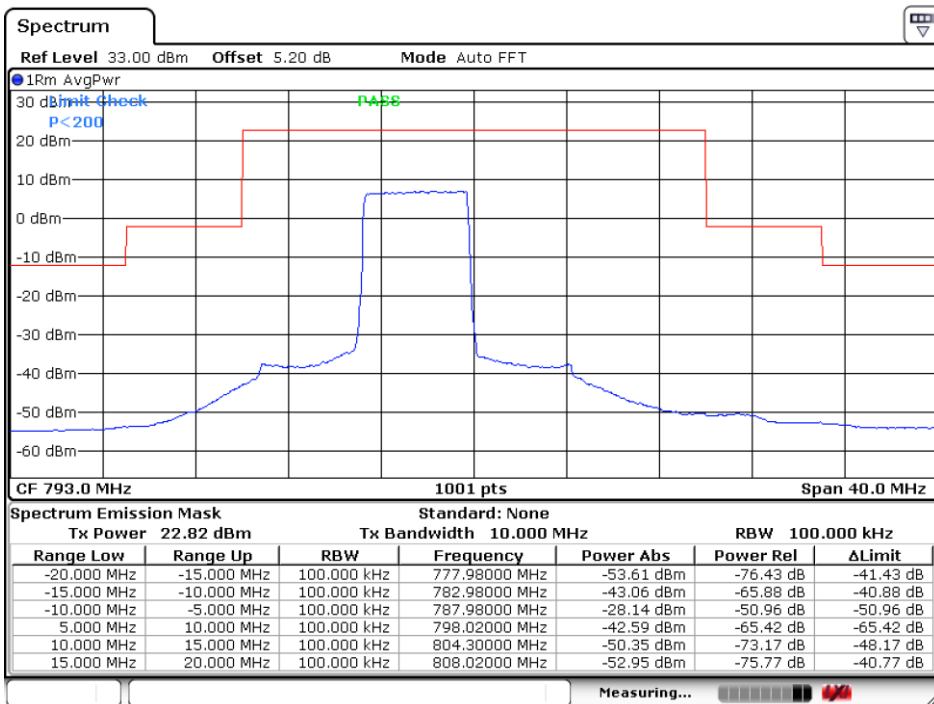
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Date: 8.SEP.2020 18:45:37



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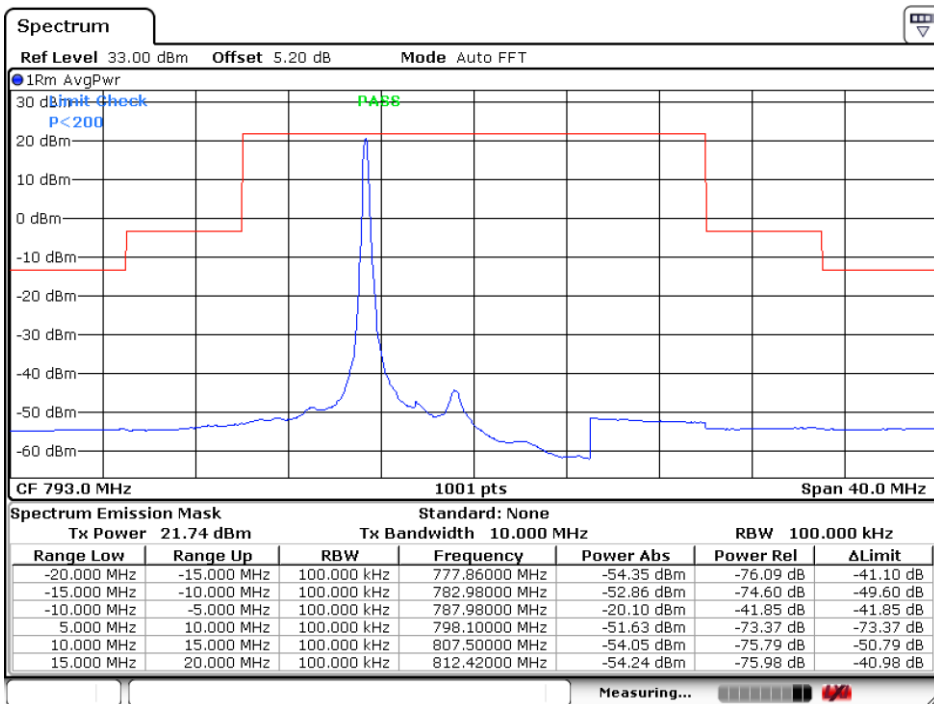


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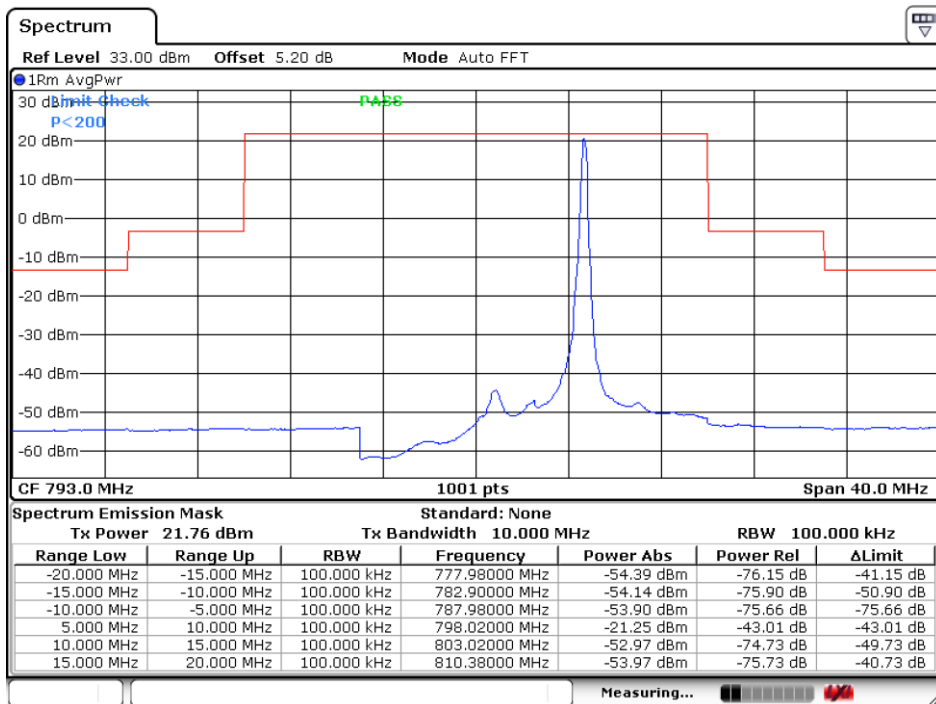
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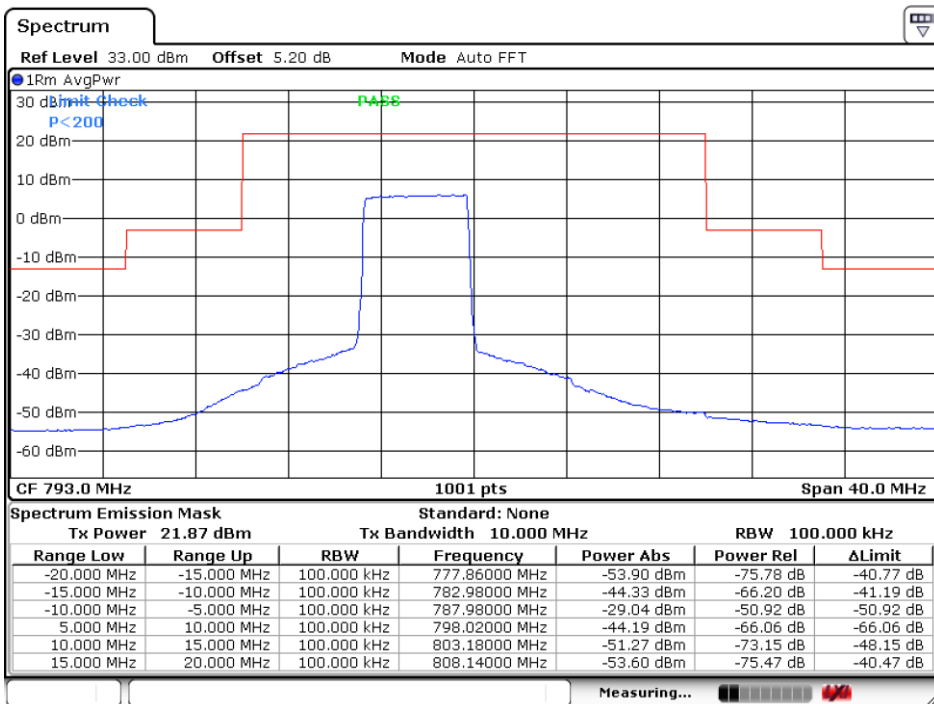
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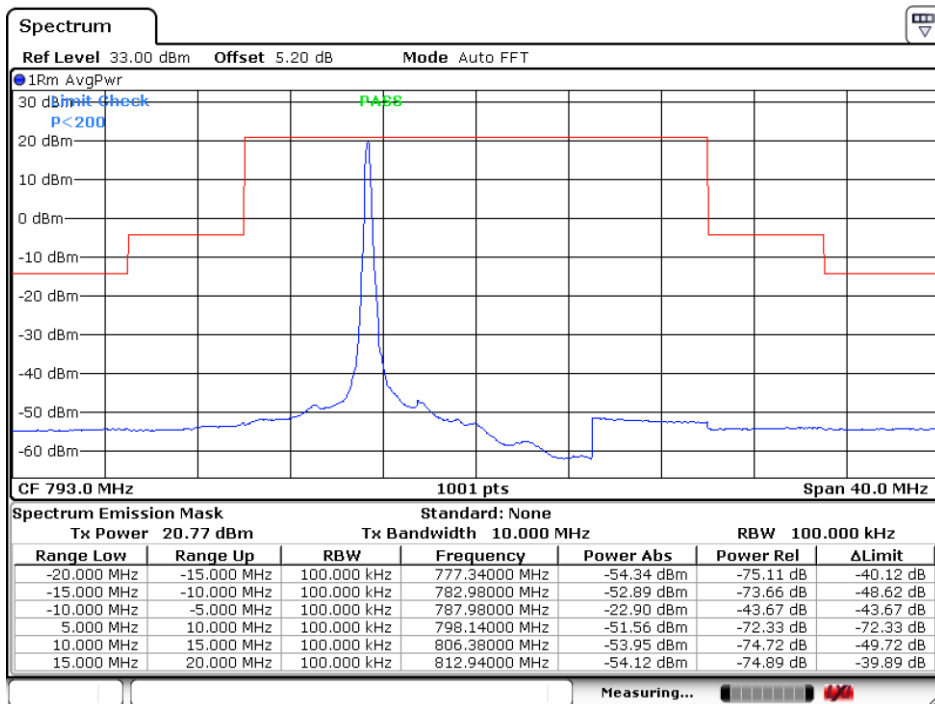
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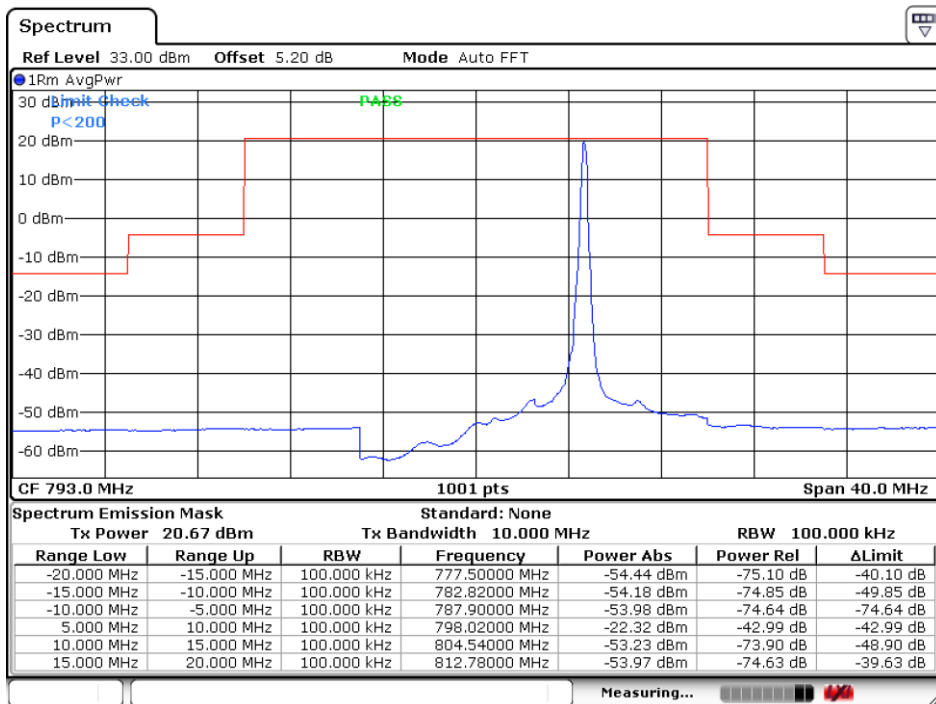


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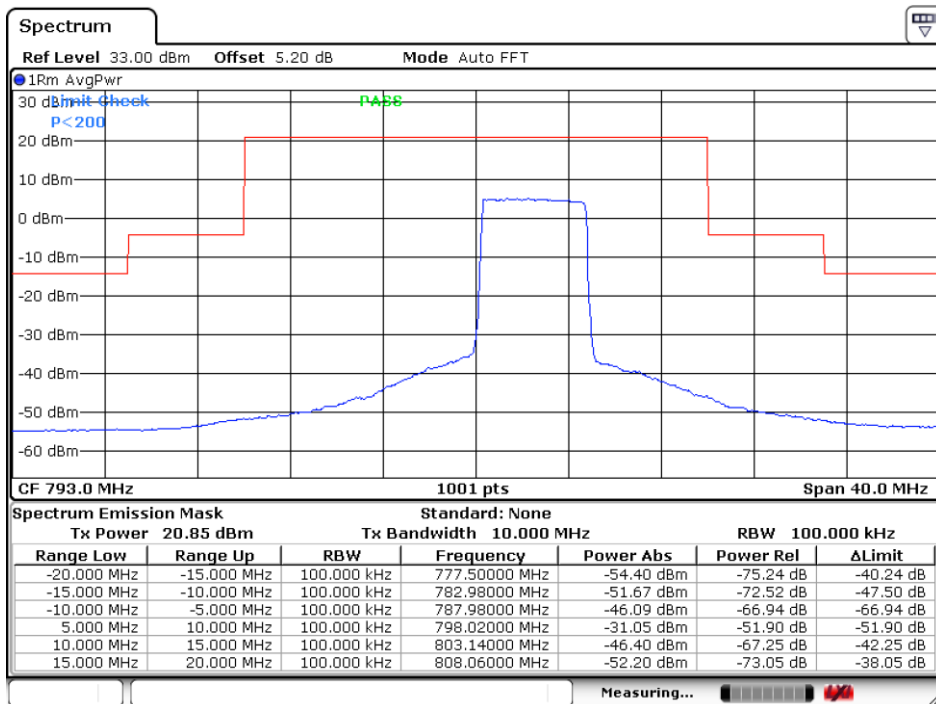
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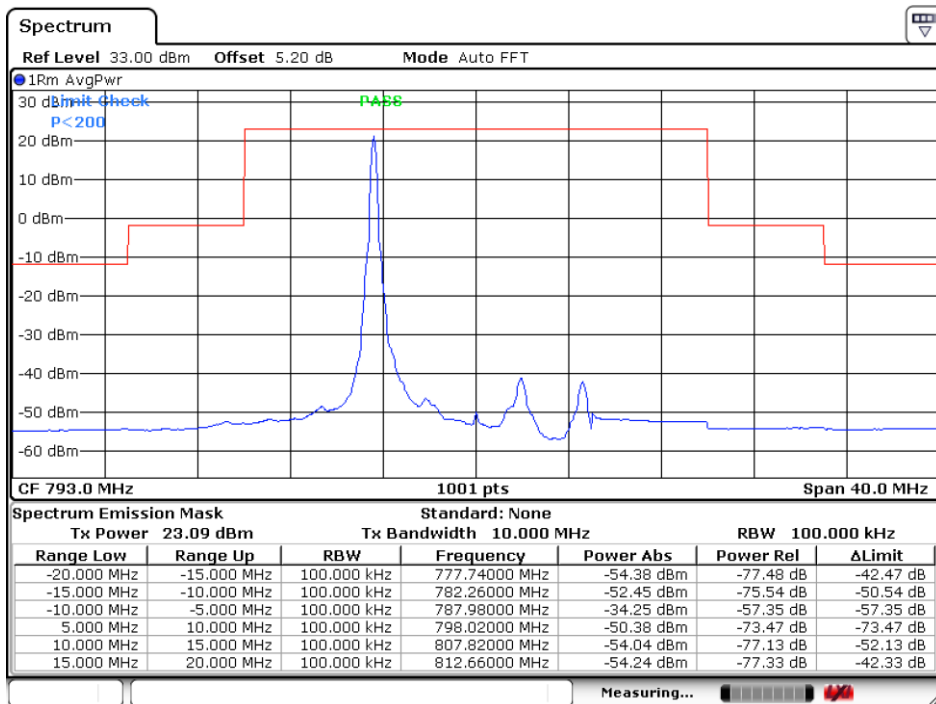
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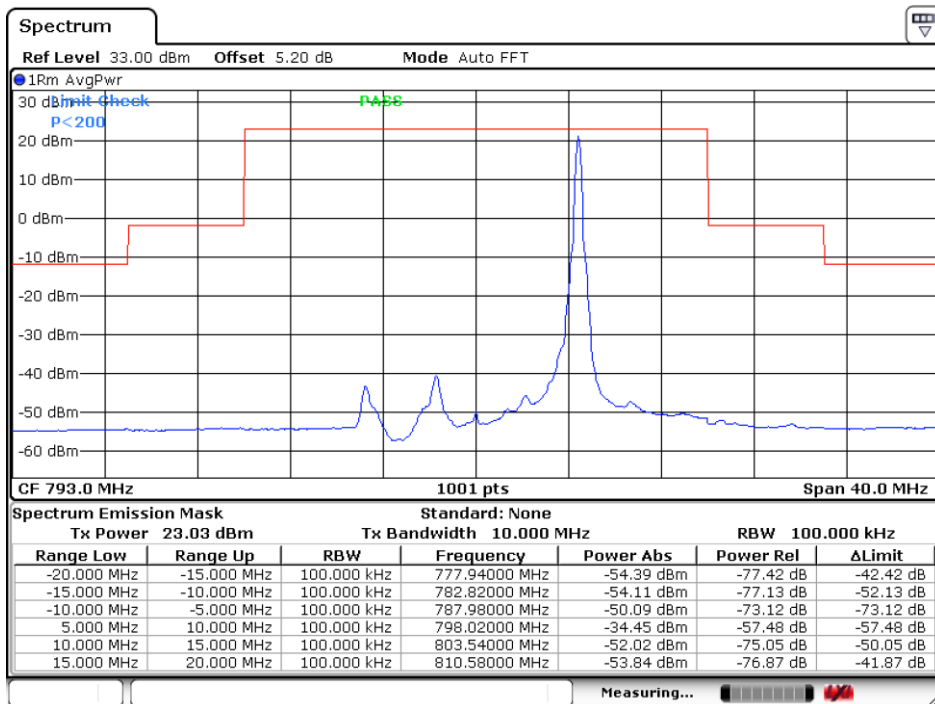
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Date: 8.SEP.2020 18:38:03



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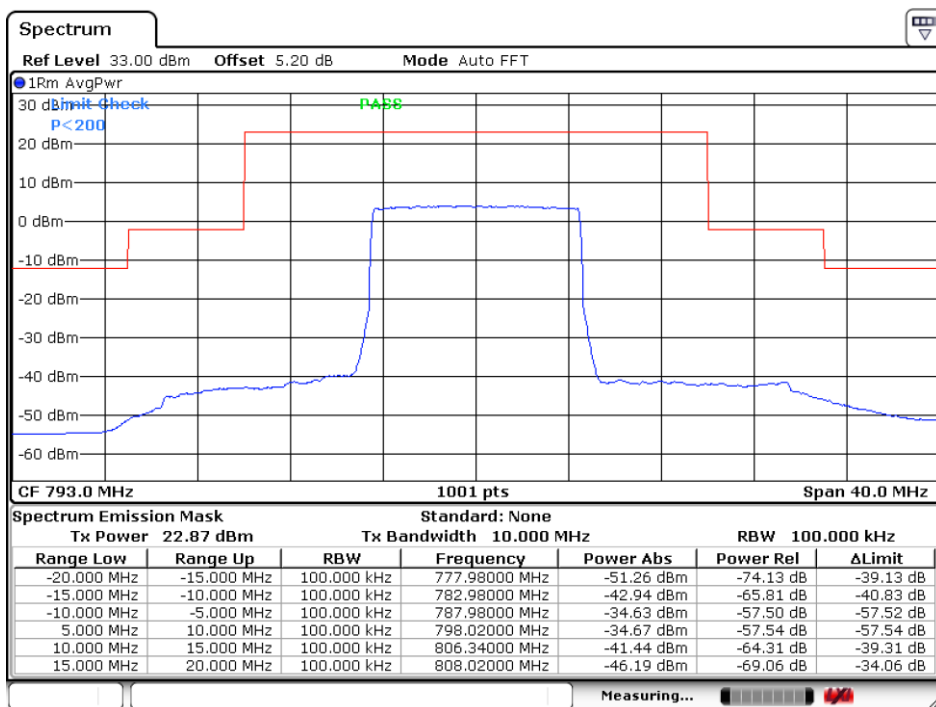


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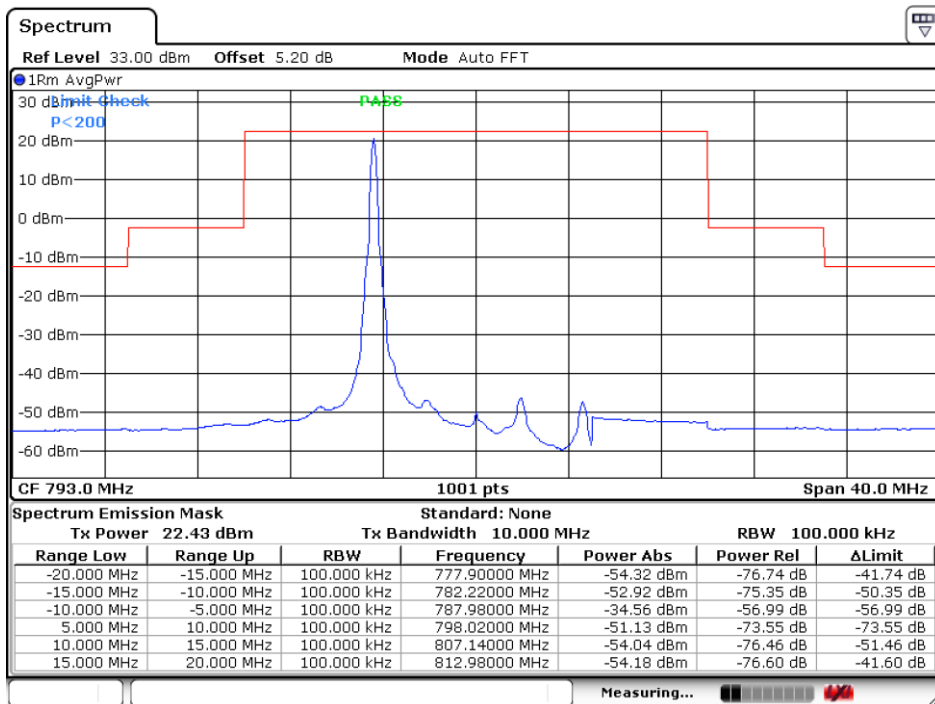
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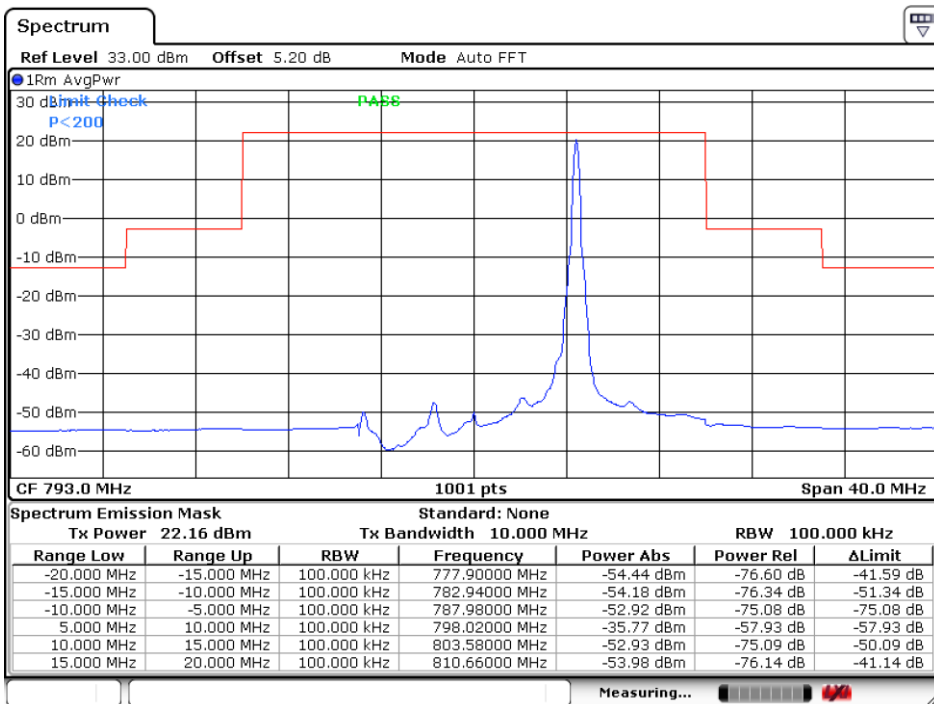
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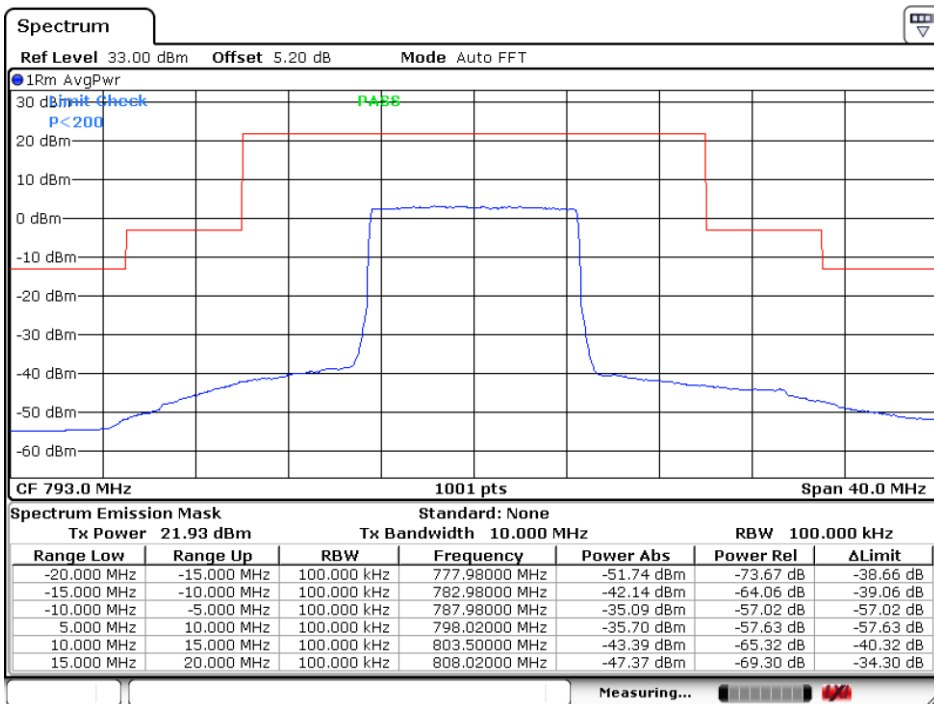
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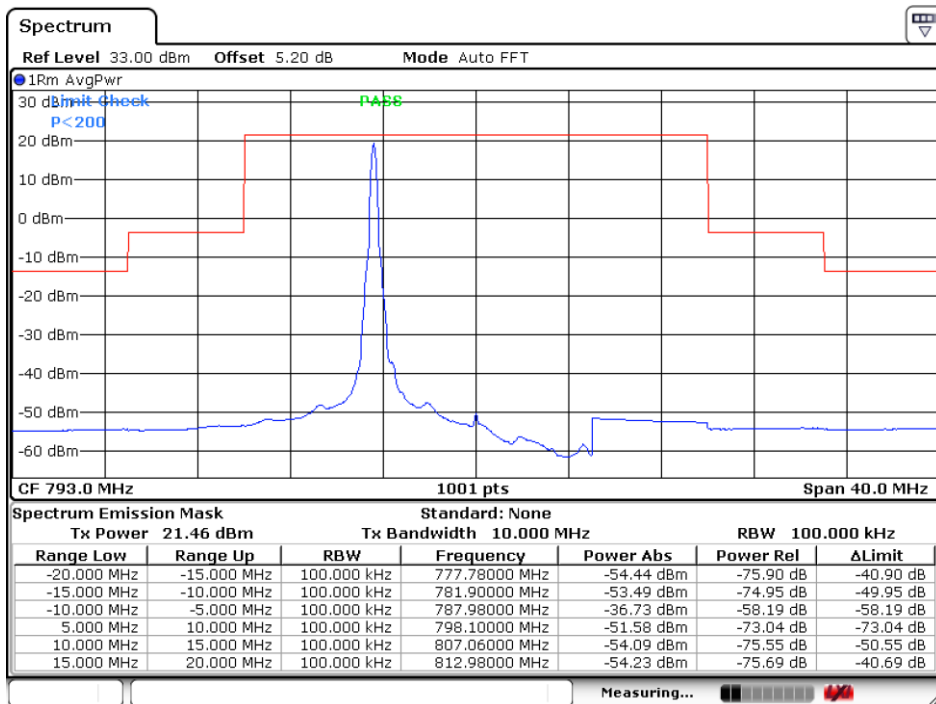


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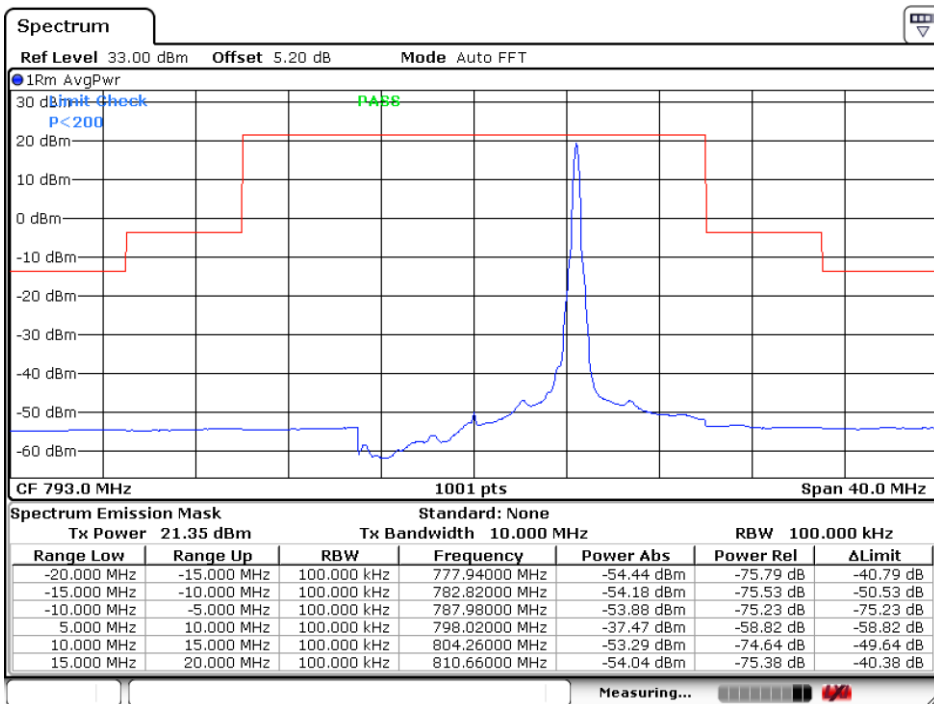
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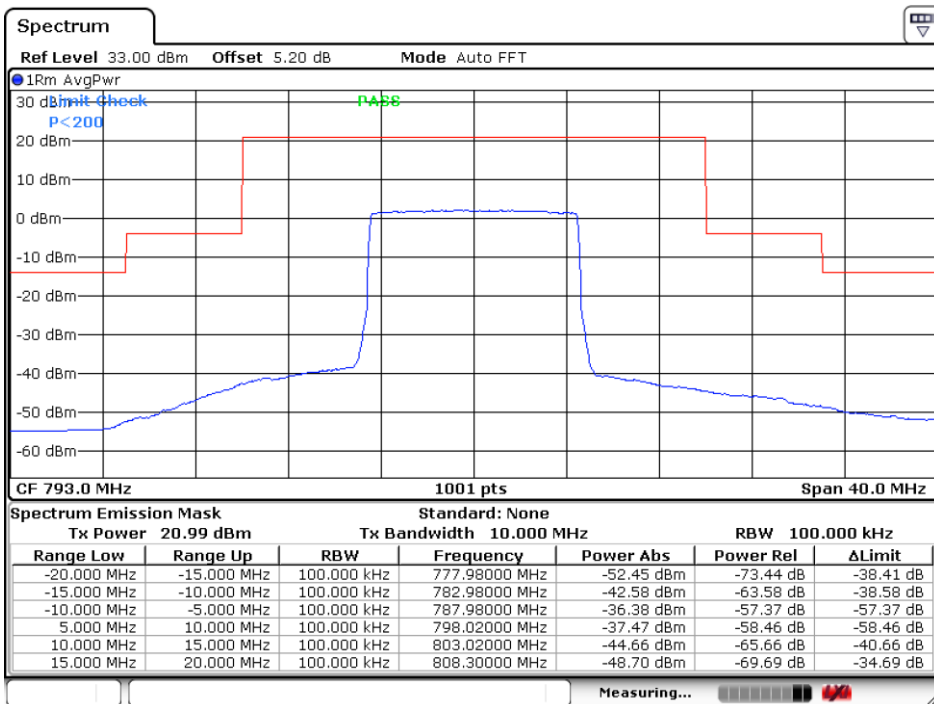
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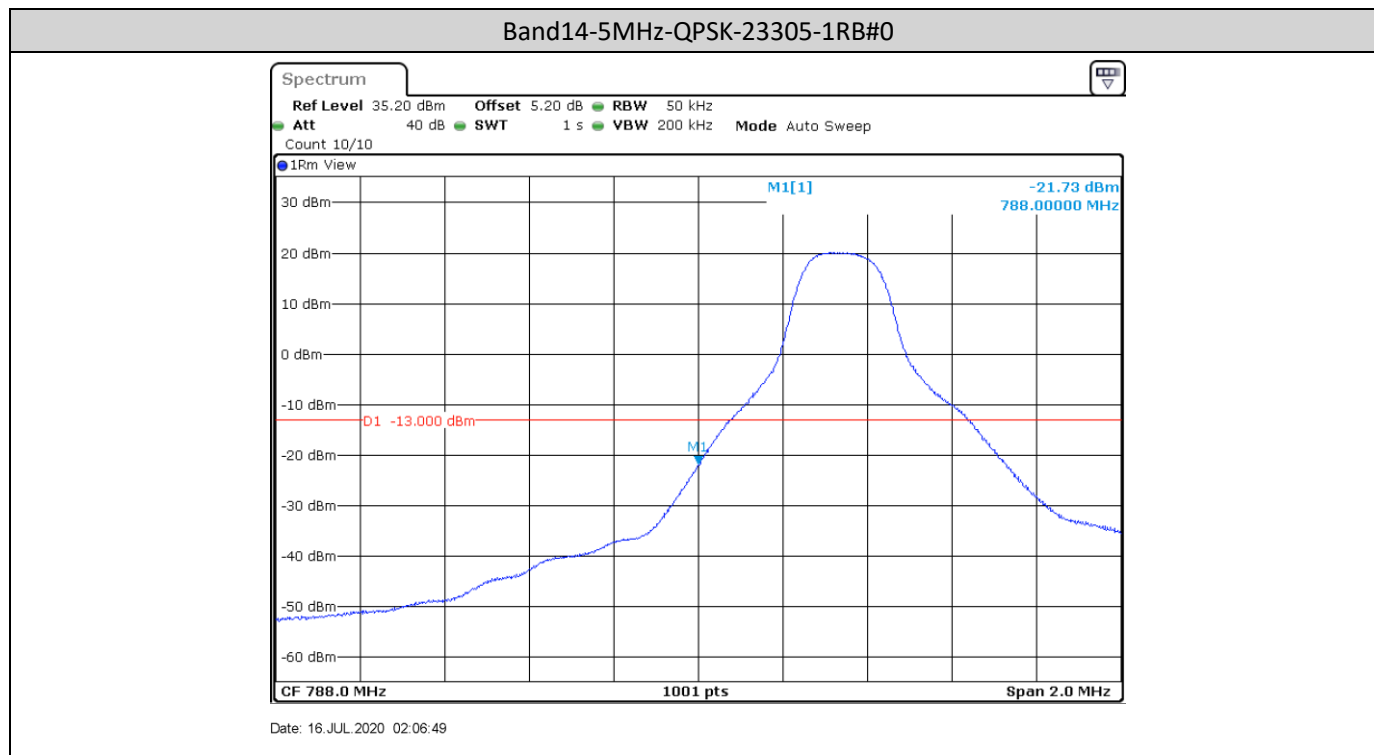
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## 6. Band Edge Compliance

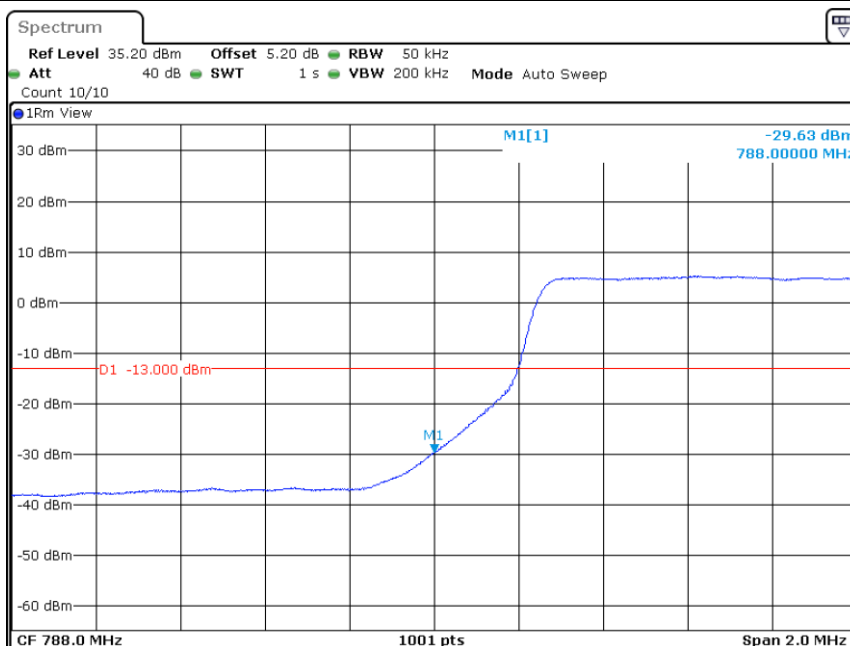
### 6.1. Test Plots





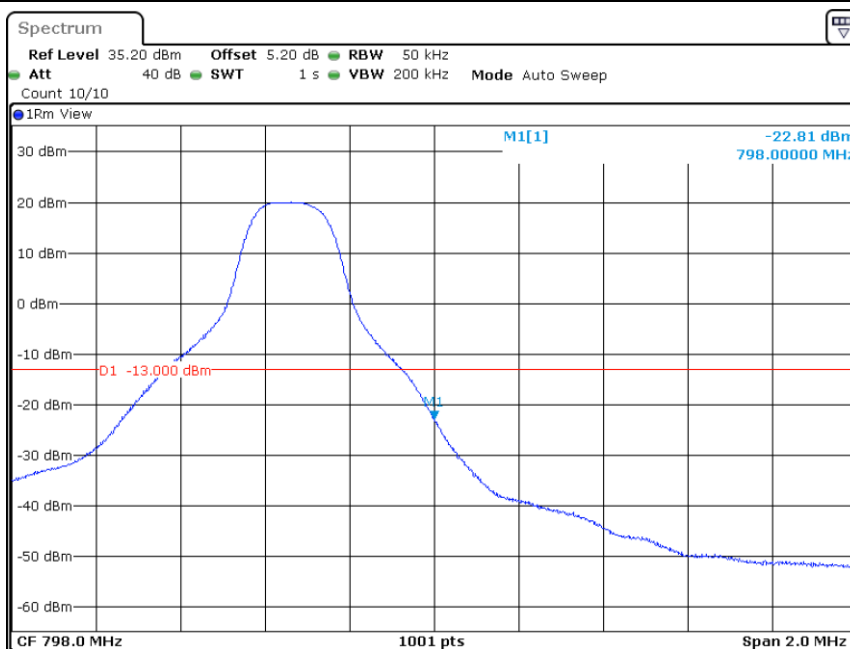


Band14-5MHz-QPSK-23305-25RB#0



Date: 16 JUL 2020 02:07:30

Band14-5MHz-QPSK-23355-1RB#24



Date: 16 JUL 2020 02:08:15



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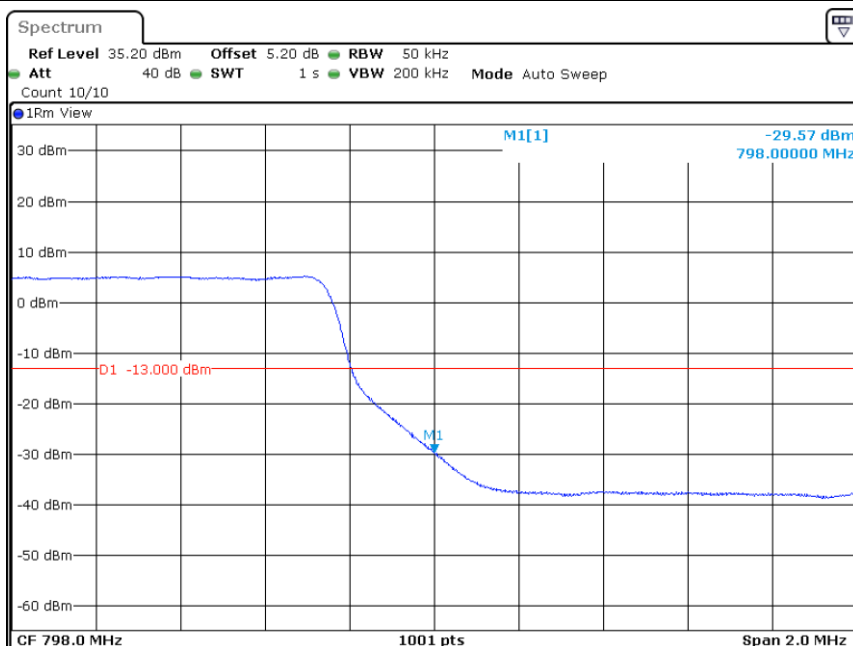
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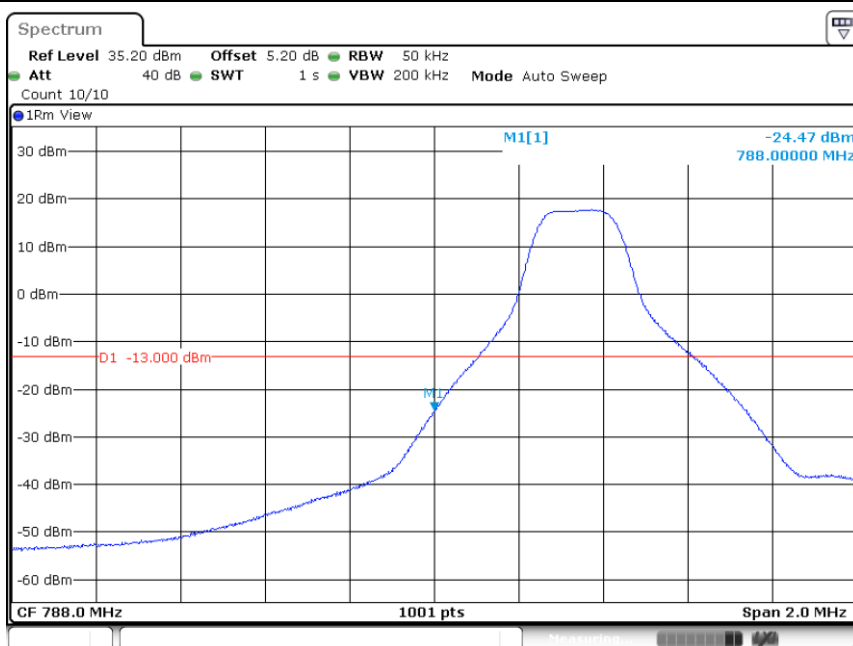


Band14-5MHz-QPSK-23355-25RB#0



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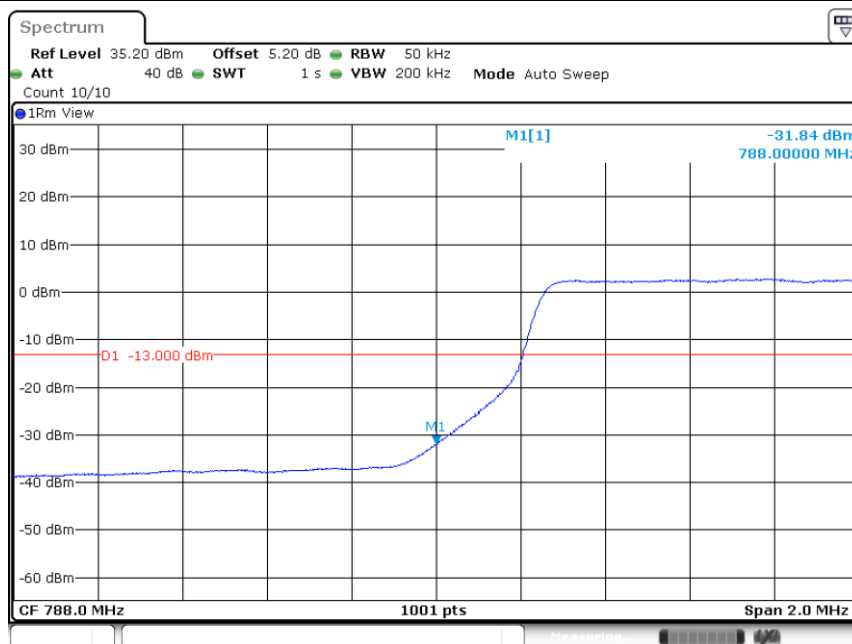
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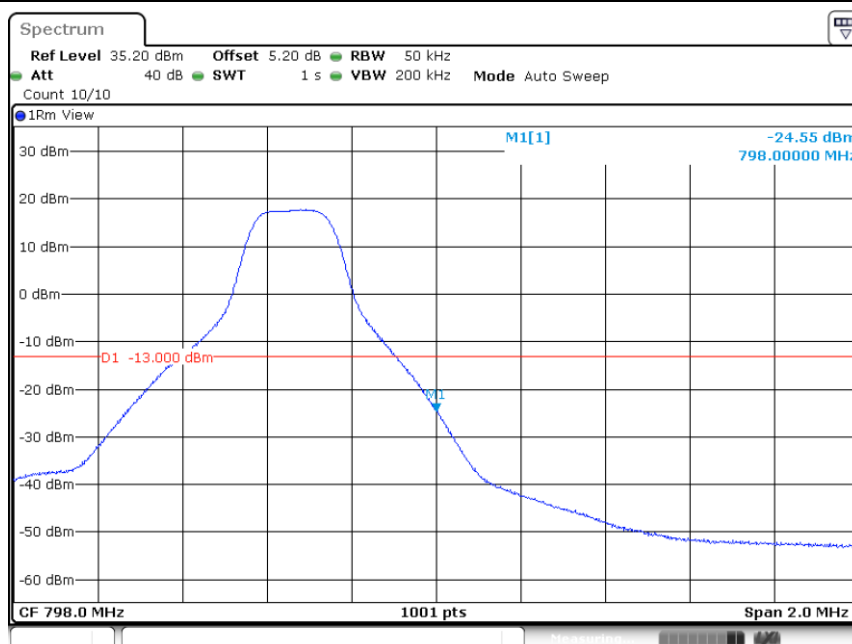


Band14-5MHz-64QAM-23305-25RB#0



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Band14-5MHz-64QAM-23355-1RB#24



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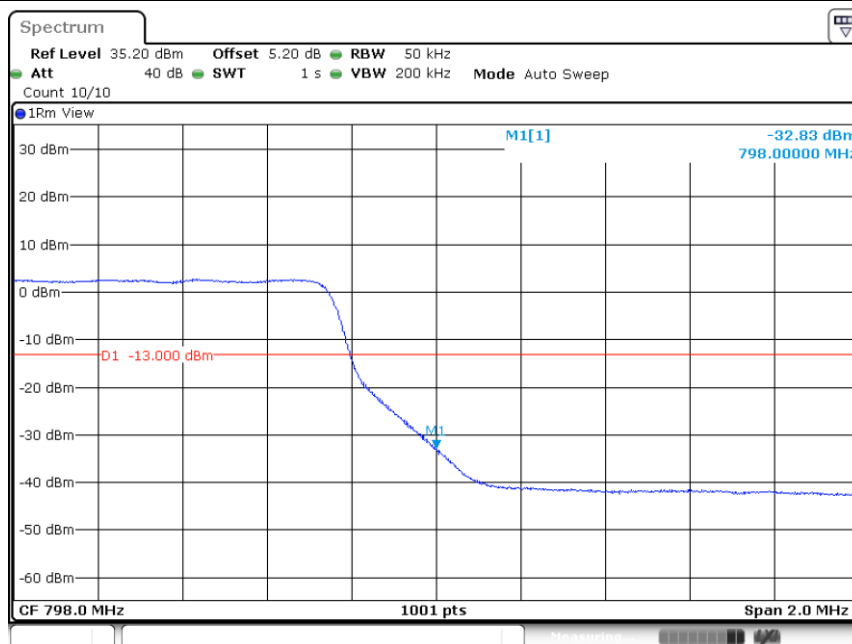
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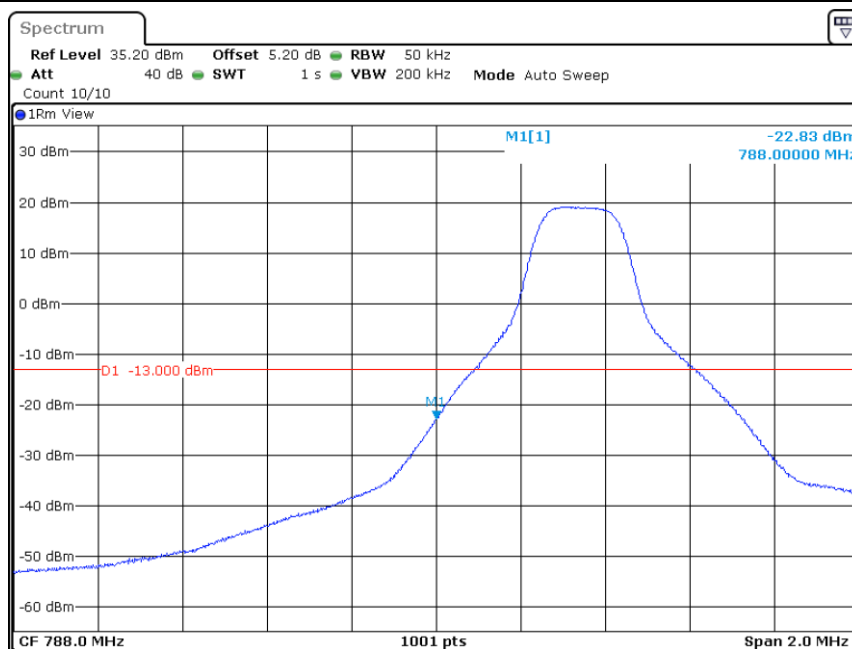


Band14-5MHz-64QAM-23355-25RB#0



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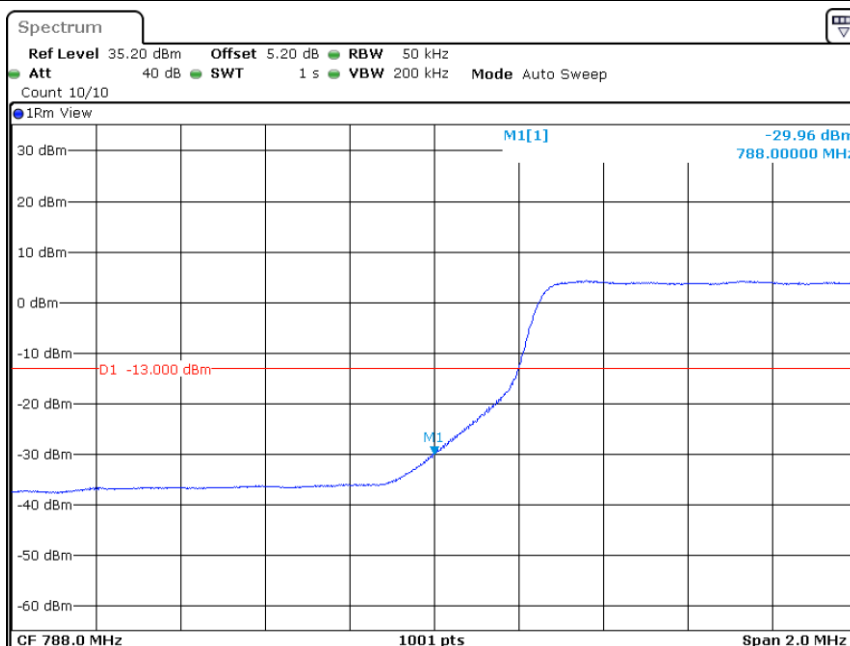
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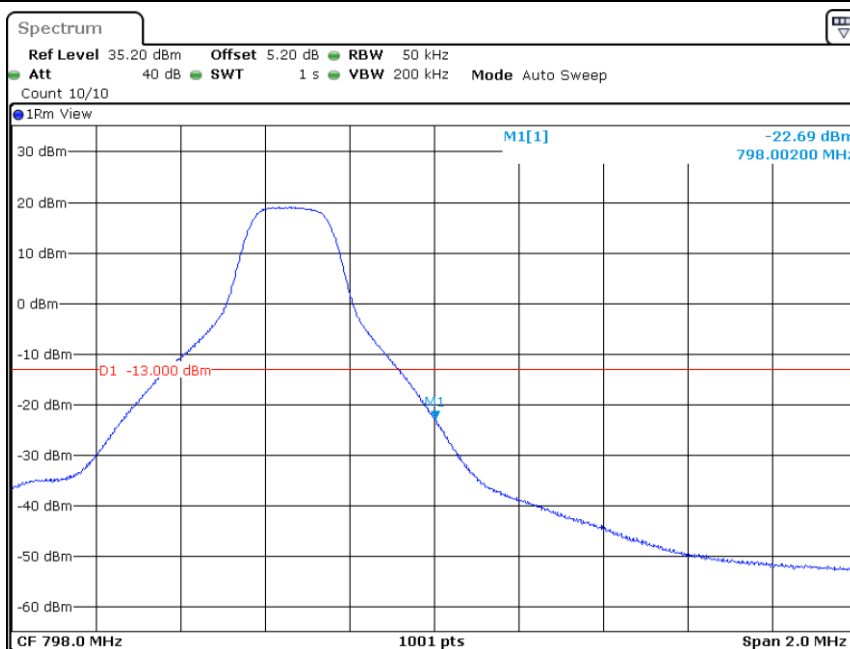


Band14-5MHz-16QAM-23305-25RB#0



Date: 16 JUL 2020 02:07:50

Band14-5MHz-16QAM-23355-1RB#24



Date: 16 JUL 2020 02:08:35



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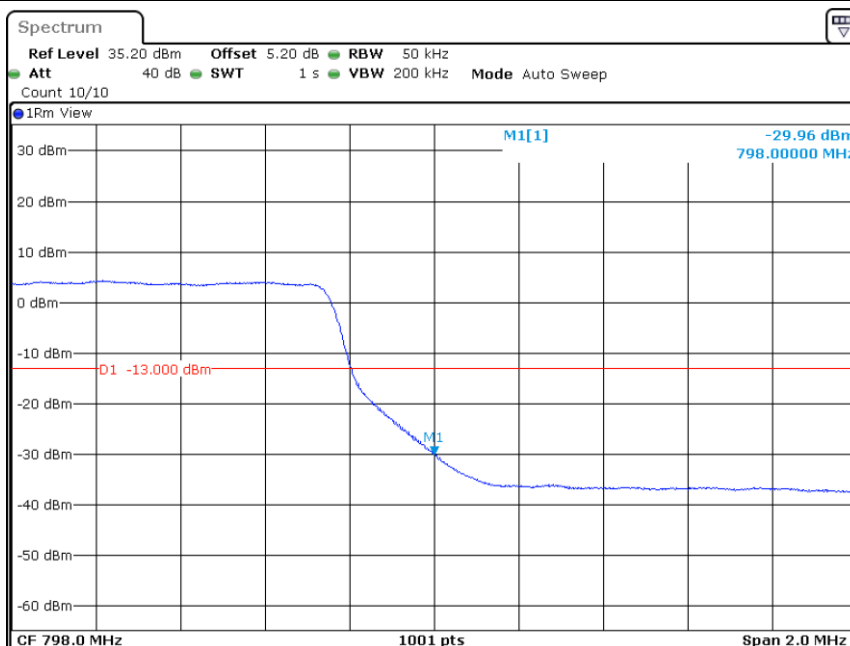
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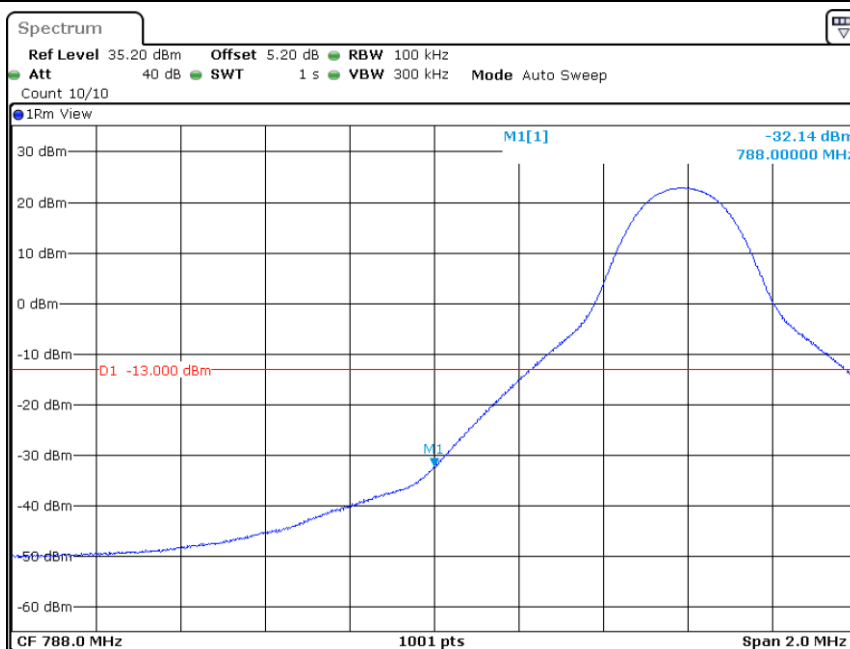


Band14-5MHz-16QAM-23355-25RB#0



Date: 16 JUL 2020 02:09:16

Band14-10MHz-QPSK-23330\_Left-1RB#0



Date: 16 JUL 2020 02:09:42



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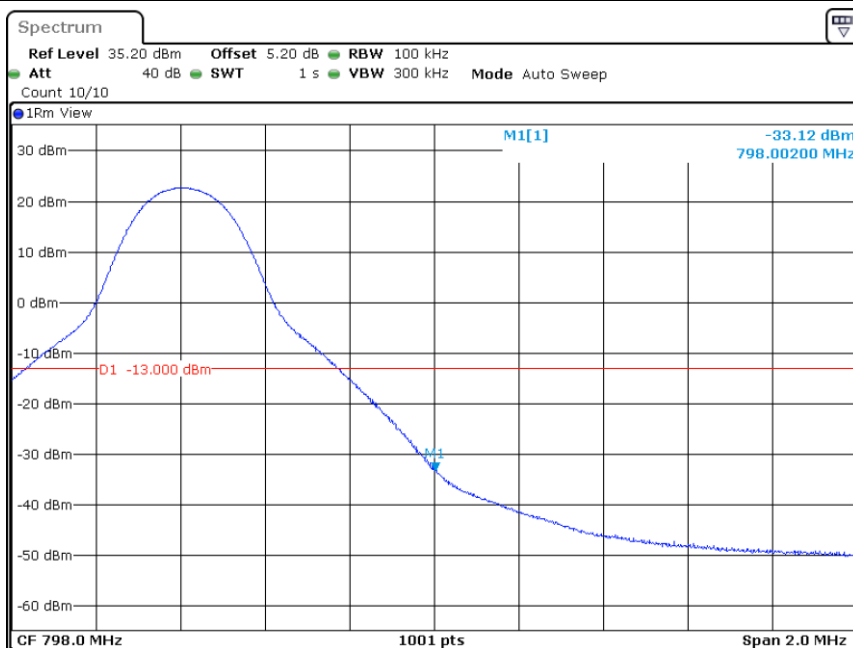
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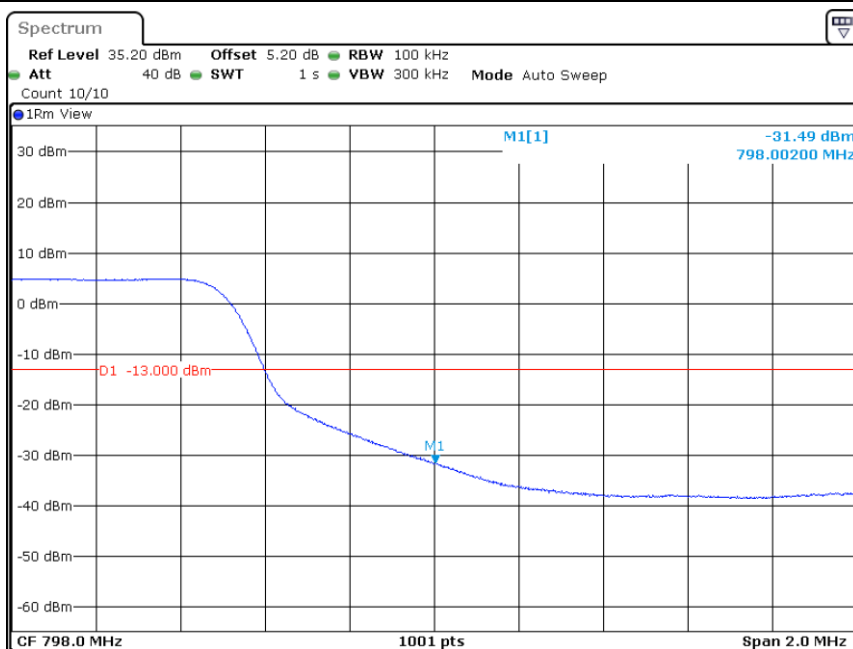


Band14-10MHz-QPSK-23330\_Right-1RB#49



Date: 16 JUL 2020 02:10:26

Band14-10MHz-QPSK-23330\_Right-50RB#0



Date: 16 JUL 2020 02:11:07



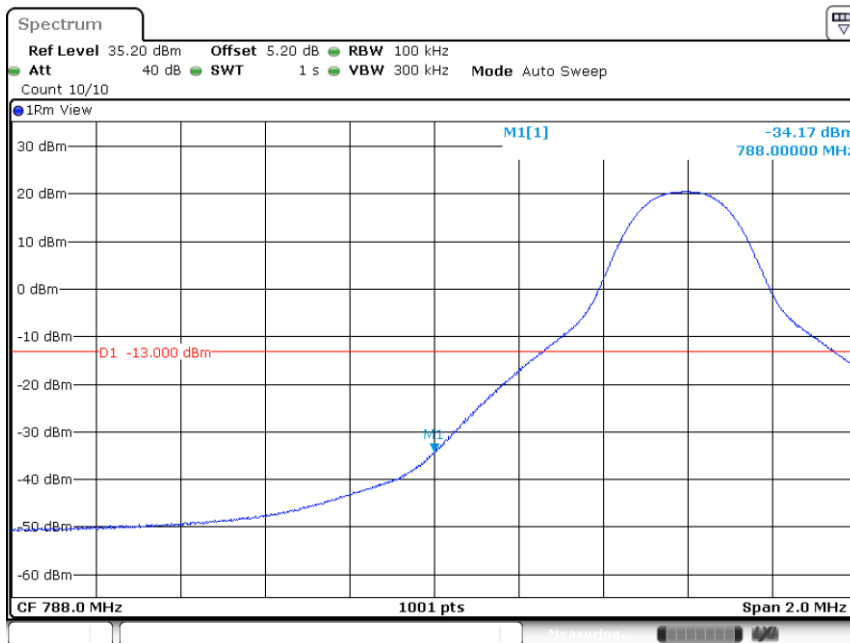
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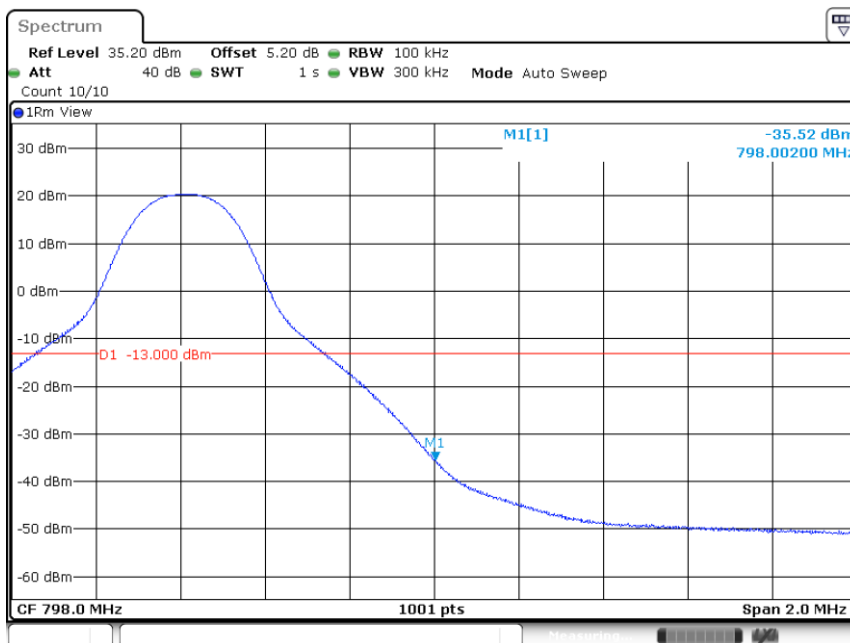


Band14-10MHz-64QAM-23330\_Left-1RB#0



Date: 11.AUG.2020 08:53:58

Band14-10MHz-64QAM-23330\_Right-1RB#49



Date: 11.AUG.2020 08:54:29



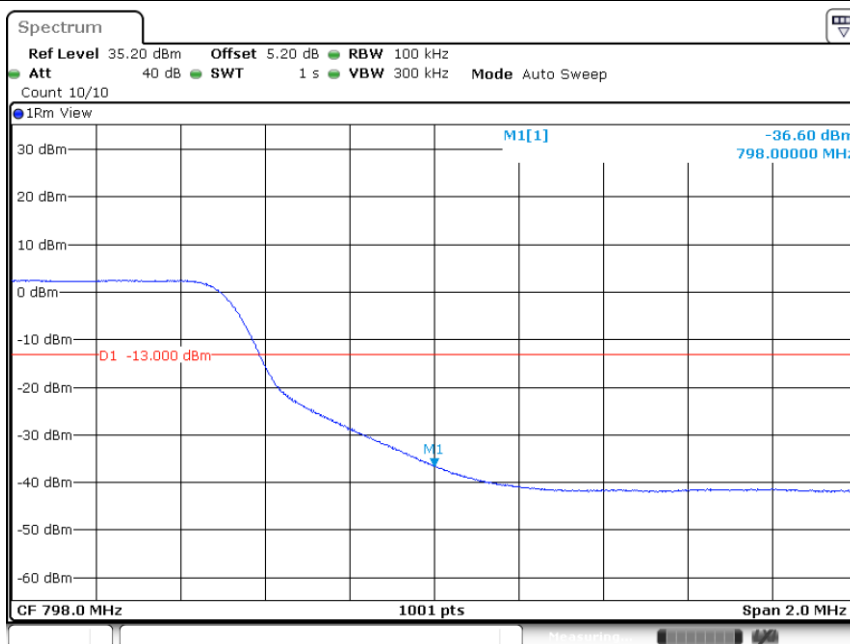
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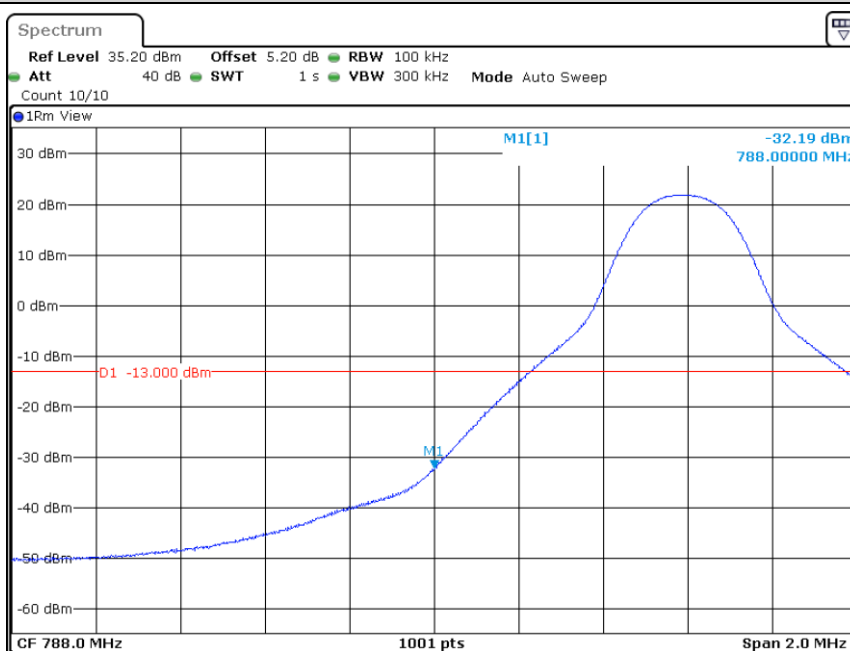


Band14-10MHz-64QAM-23330\_Right-50RB#0



Date: 11.AUG.2020 08:54:50

Band14-10MHz-16QAM-23330\_Left-1RB#0



Date: 16.JUL.2020 02:10:02



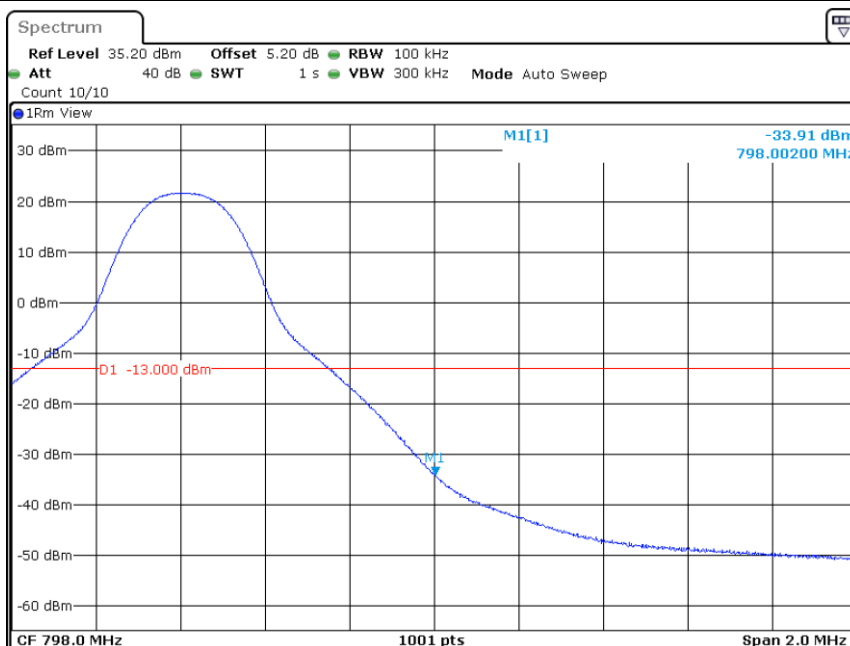
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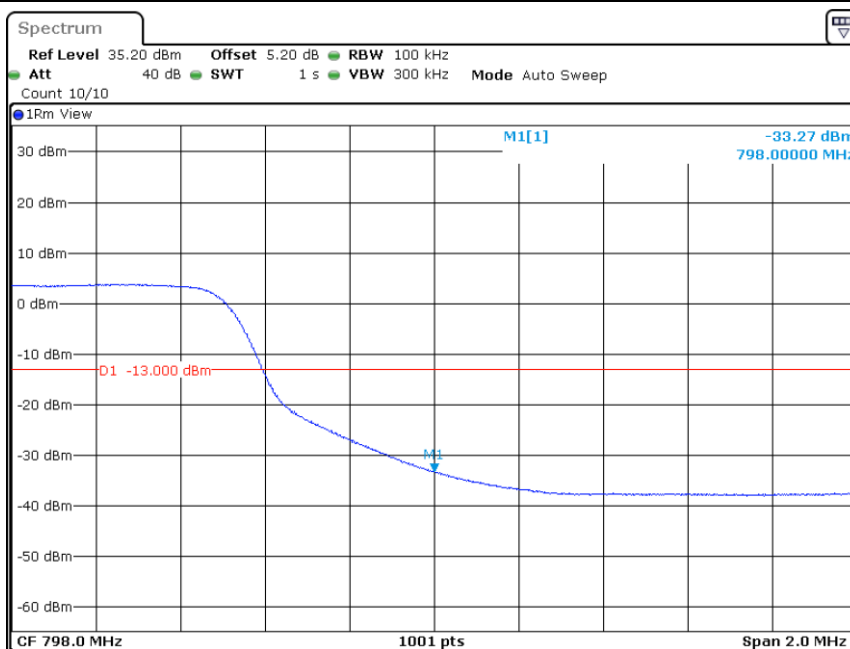


Band14-10MHz-16QAM-23330\_Right-1RB#49



Date: 16 JUL 2020 02:10:47

Band14-10MHz-16QAM-23330\_Right-50RB#0



Date: 16 JUL 2020 02:11:28



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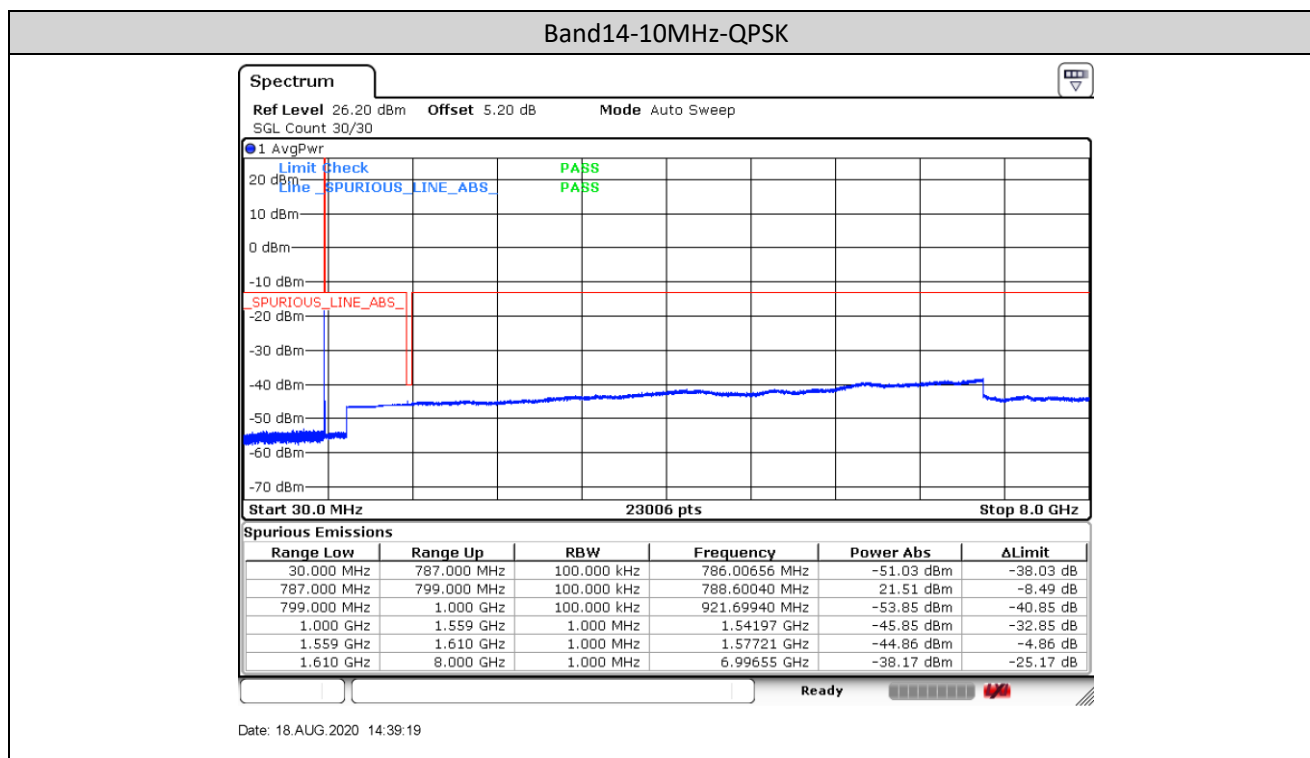


## 7. Spurious Emission at Antenna Terminal

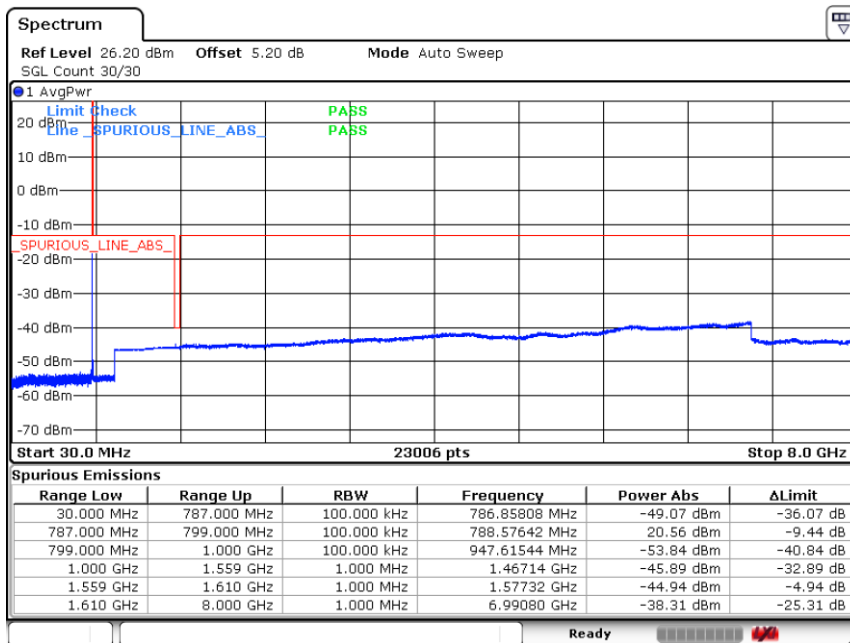
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / RBW)$ " 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.

### 7.1. Test Plots

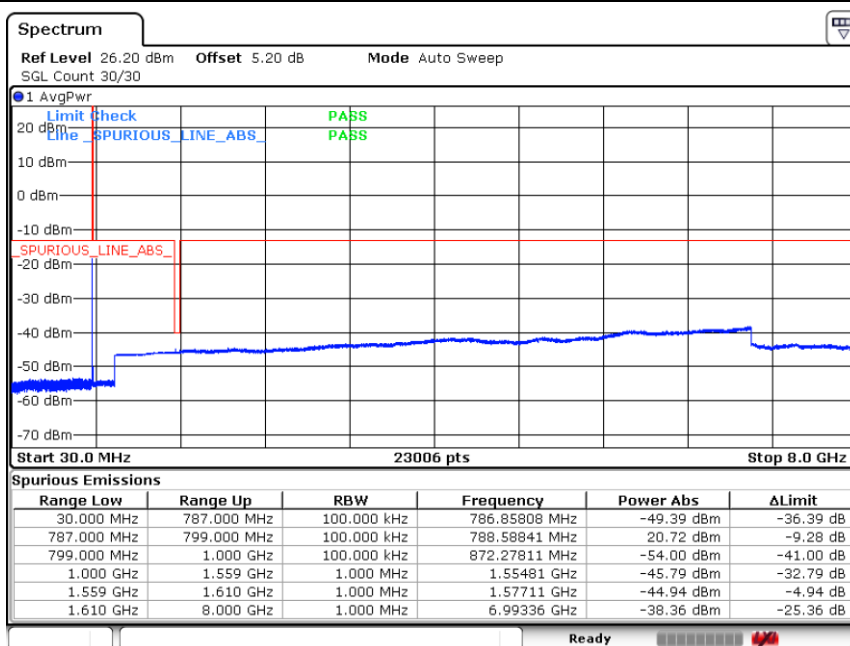


## Band14-10MHz-16QAM



Date: 18.AUG.2020 14:54:58

## Band14-10MHz-64QAM



Date: 18.AUG.2020 14:55:49





## 8. Field Strength of Spurious Radiation

### 8.1. Test Mode =LTE/TM1 10MHz

#### 8.1.1.Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 73.9917         | -66.25      | -13.00           | 53.25       | 158         | 135       | Vertical     |
| 321.1116        | -69.59      | -13.00           | 56.59       | 196         | 199       | Vertical     |
| 1577.3155       | -52.08      | -40.00           | 12.08       | 185         | 351       | Vertical     |
| 3000.0000       | -56.40      | -13.00           | 43.40       | 321         | 125       | Vertical     |
| 7323.1729       | -55.96      | -13.00           | 42.96       | 262         | 71        | Vertical     |
| 17997.5999      | -40.48      | -13.00           | 27.48       | 261         | 7         | Vertical     |
| 41.4951         | -63.79      | -13.00           | 50.79       | 162         | 185       | Horizontal   |
| 237.5904        | -68.75      | -13.00           | 55.75       | 321         | 142       | Horizontal   |
| 1576.9154       | -53.18      | -40.00           | 13.18       | 262         | 266       | Horizontal   |
| 2699.5399       | -56.37      | -13.00           | 43.37       | 184         | 60        | Horizontal   |
| 8009.0004       | -56.62      | -13.00           | 43.62       | 231         | 14        | Horizontal   |
| 16395.5358      | -44.10      | -13.00           | 31.10       | 264         | 292       | 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.





## 9. Frequency Stability

### 9.1. Frequency Vs Voltage

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0       | VL            | NT               | -0.30          | -0.000378       | ±2.5        | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0       | VN            | NT               | 0.40           | 0.000504        | ±2.5        | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0       | VH            | NT               | 1.10           | 0.001387        | ±2.5        | PASS    |
| Band14 | 10MHz     | 64QAM      | 23330   | 50RB#0       | VL            | NT               | -1.90          | -0.002396       | ±2.5        | PASS    |
| Band14 | 10MHz     | 64QAM      | 23330   | 50RB#0       | VN            | NT               | -2.30          | -0.002900       | ±2.5        | PASS    |
| Band14 | 10MHz     | 64QAM      | 23330   | 50RB#0       | VH            | NT               | -2.30          | -0.002900       | ±2.5        | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0       | VL            | NT               | 0.10           | 0.000126        | ±2.5        | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0       | VN            | NT               | -0.30          | -0.000378       | ±2.5        | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0       | VH            | NT               | 0.30           | 0.000378        | ±2.5        | PASS    |



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## 9.2. Frequency Vs Temperature

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | -30              | 0.50           | 0.000631        | ±2.5        | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | -20              | -0.50          | -0.000631       | ±2.5        | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | 0                | -1.10          | -0.001387       | ±2.5        | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | 10               | 0.20           | 0.000252        | ±2.5        | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | 20               | -0.60          | -0.000757       | ±2.5        | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | 30               | -0.60          | -0.000757       | ±2.5        | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | 40               | -1.60          | -0.002018       | ±2.5        | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | 50               | -0.70          | -0.000883       | ±2.5        | PASS    |
| Band14 | 10MHz     | 64QAM      | 23330   | 50RB#0       | NV            | -30              | -2.50          | -0.003153       | ±2.5        | PASS    |
| Band14 | 10MHz     | 64QAM      | 23330   | 50RB#0       | NV            | -20              | 0.80           | 0.001009        | ±2.5        | PASS    |
| Band14 | 10MHz     | 64QAM      | 23330   | 50RB#0       | NV            | 0                | -0.90          | -0.001135       | ±2.5        | PASS    |
| Band14 | 10MHz     | 64QAM      | 23330   | 50RB#0       | NV            | 10               | -1.90          | -0.002396       | ±2.5        | PASS    |
| Band14 | 10MHz     | 64QAM      | 23330   | 50RB#0       | NV            | 20               | 0.50           | 0.000631        | ±2.5        | PASS    |
| Band14 | 10MHz     | 64QAM      | 23330   | 50RB#0       | NV            | 30               | -1.70          | -0.002144       | ±2.5        | PASS    |
| Band14 | 10MHz     | 64QAM      | 23330   | 50RB#0       | NV            | 40               | -0.80          | -0.001009       | ±2.5        | PASS    |
| Band14 | 10MHz     | 64QAM      | 23330   | 50RB#0       | NV            | 50               | 0.80           | 0.001009        | ±2.5        | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0       | NV            | -30              | -0.10          | -0.000126       | ±2.5        | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0       | NV            | -20              | -0.20          | -0.000252       | ±2.5        | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0       | NV            | 0                | -2.00          | -0.002522       | ±2.5        | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0       | NV            | 10               | 1.30           | 0.001639        | ±2.5        | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0       | NV            | 20               | 0.90           | 0.001135        | ±2.5        | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0       | NV            | 30               | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0       | NV            | 40               | -0.80          | -0.001009       | ±2.5        | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0       | NV            | 50               | -2.00          | -0.002522       | ±2.5        | PASS    |

The End

