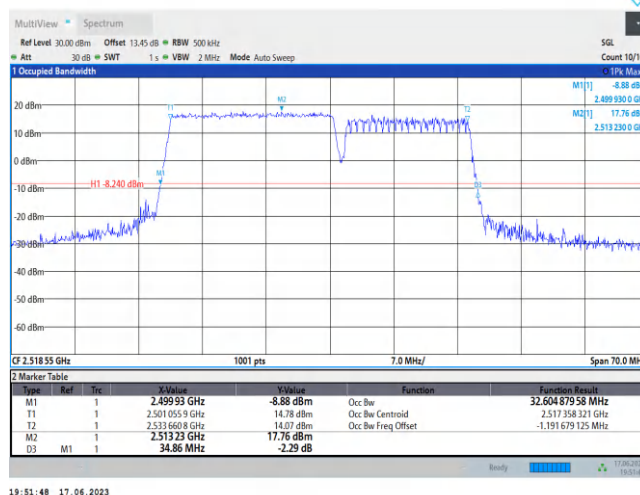


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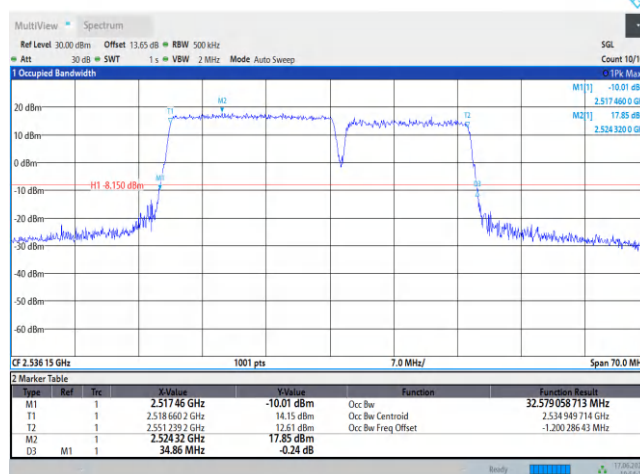
Page: 51 of 88

### 7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



19:51:48 17.06.2023

### 7-7-20MHz-15MHz-QPSK-QPSK-21026-21197-100RB#0-75RB#0



19:54:27 17.06.2023



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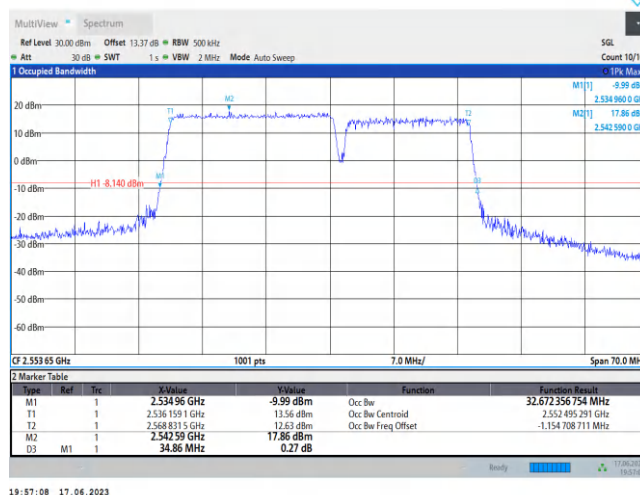
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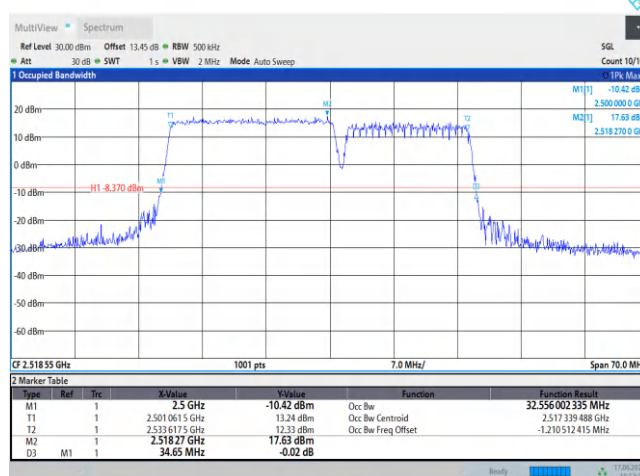
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### 7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-100RB#0-75RB#0



19:57:08 17.06.2023

### 7-7-20MHz-15MHz-16QAM-16QAM-20850-21021-100RB#0-75RB#0



19:52:26 17.06.2023



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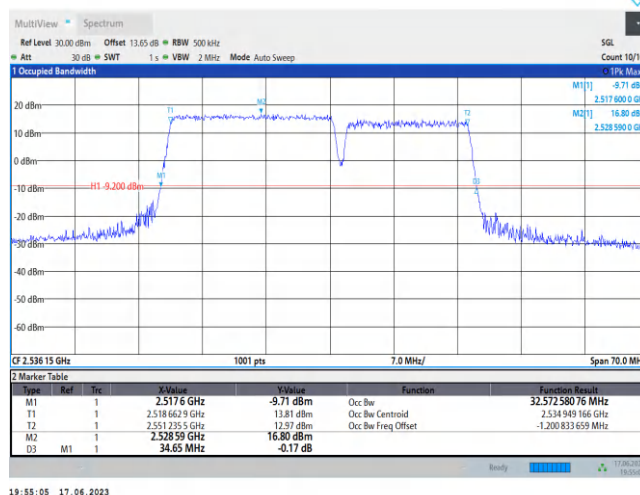
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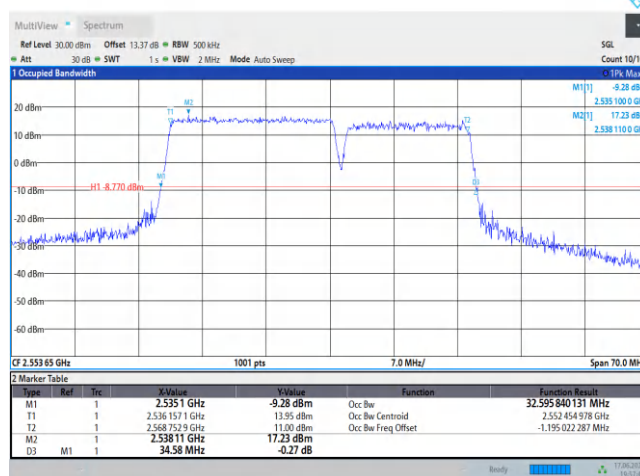
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### 7-7-20MHz-15MHz-16QAM-16QAM-21026-21197-100RB#0-75RB#0



19:55:05 17.06.2023

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19:57:47 17.06.2023



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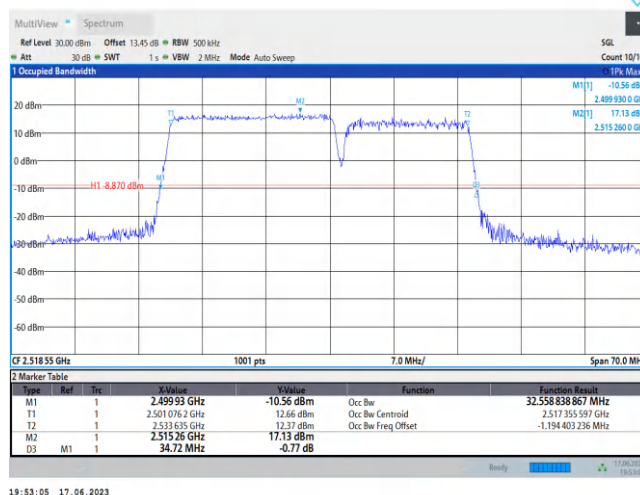
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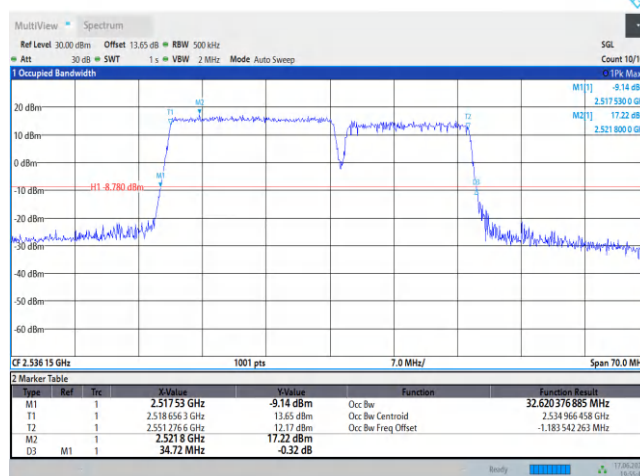
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### 7-7-20MHz-15MHz-64QAM-64QAM-20850-21021-100RB#0-75RB#0



19:53:05 17.06.2023

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19:55:44 17.06.2023



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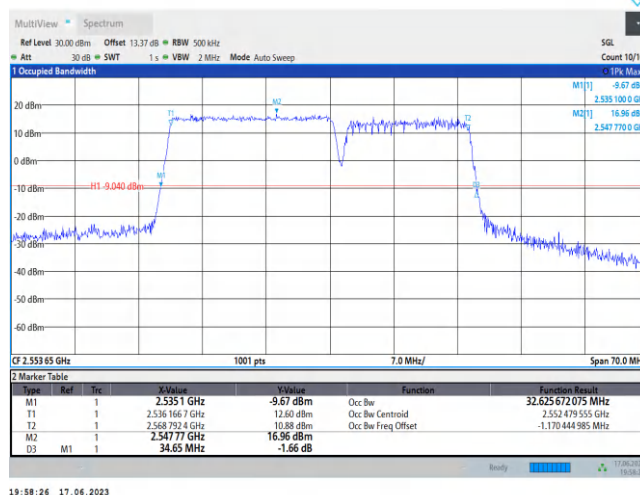
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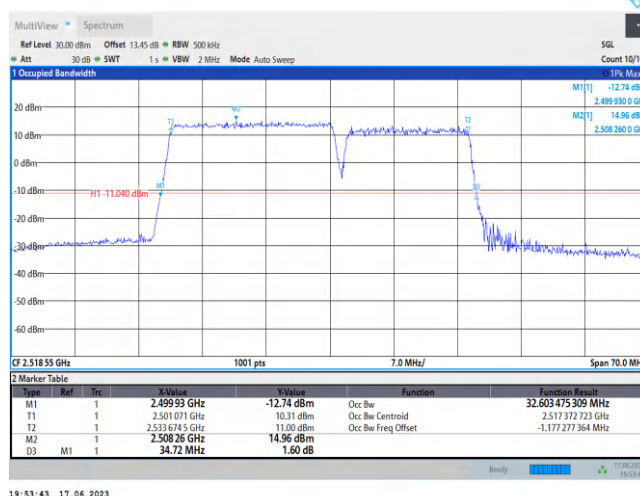
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### 7-7-20MHz-15MHz-64QAM-64QAM-21201-21372-100RB#0-75RB#0



### 7-7-20MHz-15MHz-256QAM-256QAM-20850-21021-100RB#0-75RB#0



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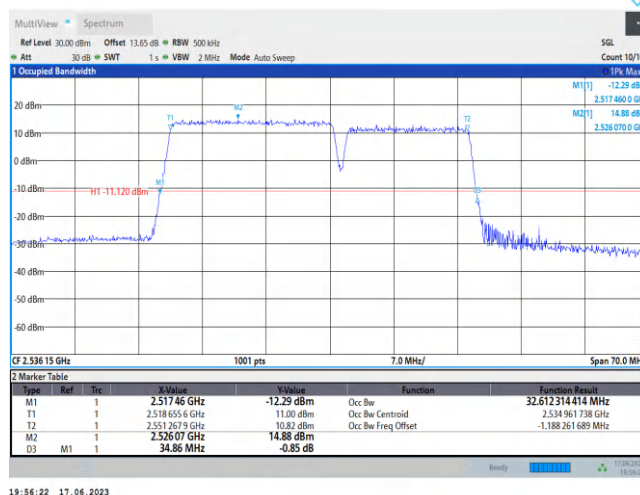
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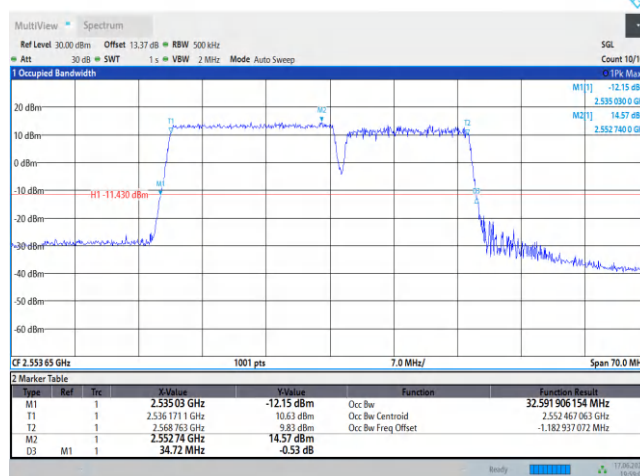
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### 7-7-20MHz-15MHz-256QAM-256QAM-21026-21197-100RB#0-75RB#0



19:56:22 17.06.2023

### 7-7-20MHz-15MHz-256QAM-256QAM-21201-21372-100RB#0-75RB#0



19:59:04 17.06.2023



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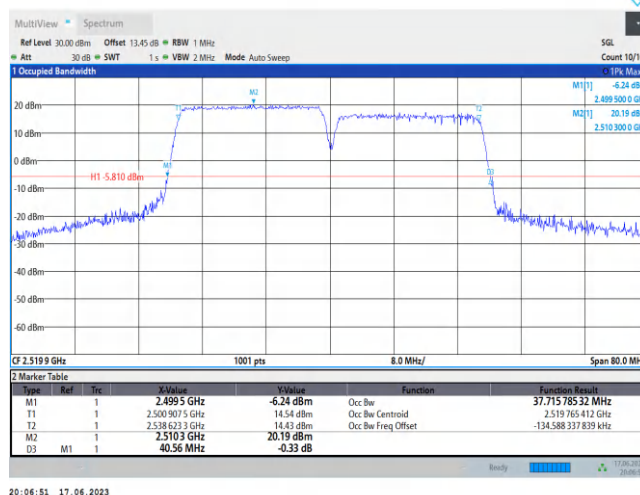
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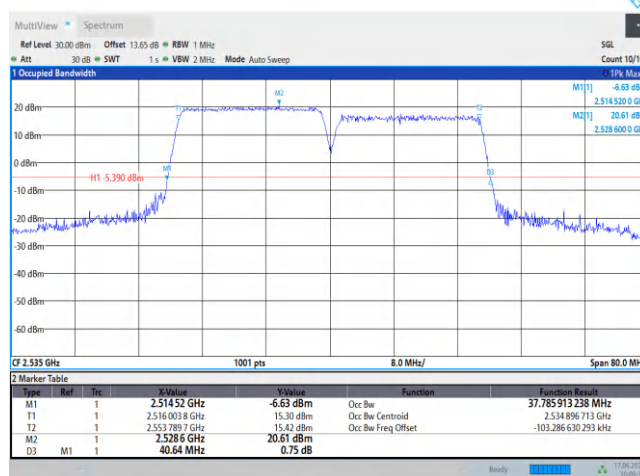
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### 7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



20:06:51 17.06.2023

### 7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0



20:09:32 17.06.2023



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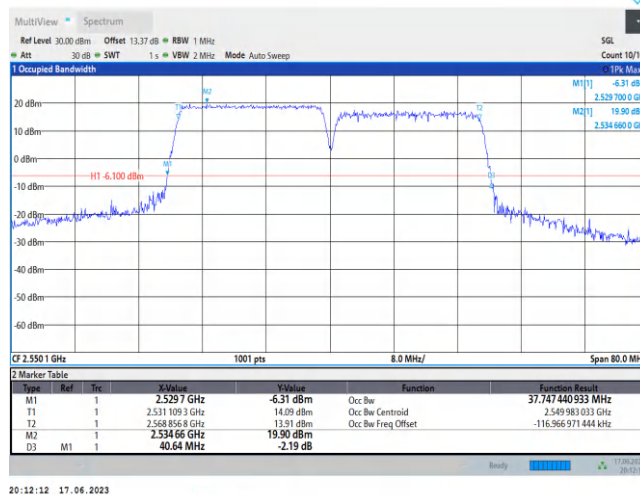
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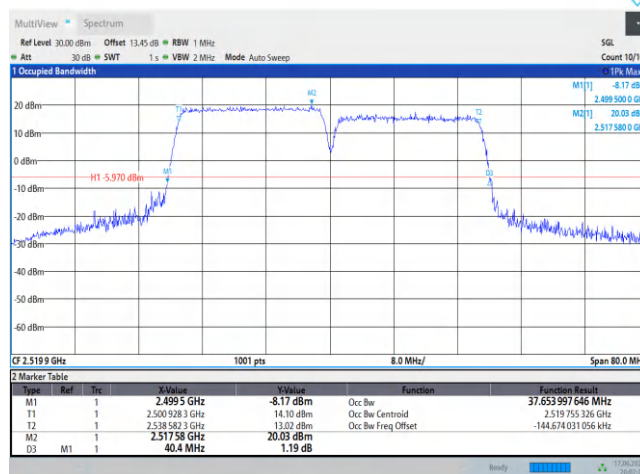
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### 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



20:12:12 17.06.2023

### 7-7-20MHz-20MHz-16QAM-16QAM-20850-21048-100RB#0-100RB#0



20:07:29 17.06.2023



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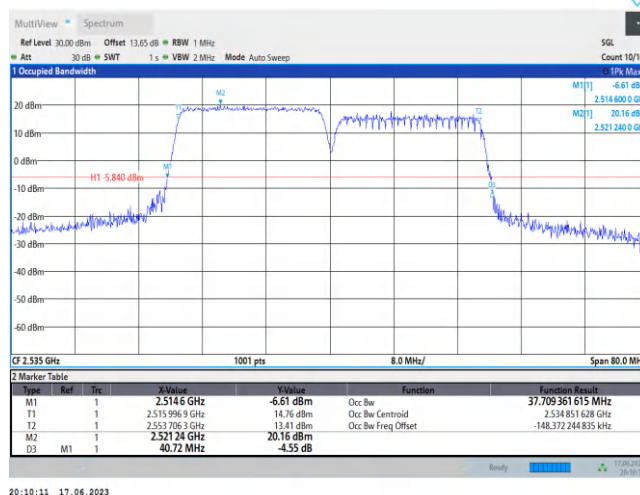
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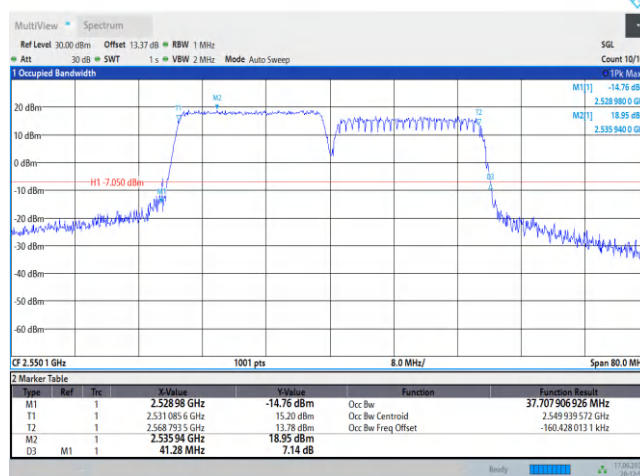
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### 7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



20:10:11 17.06.2023

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20:12:51 17.06.2023



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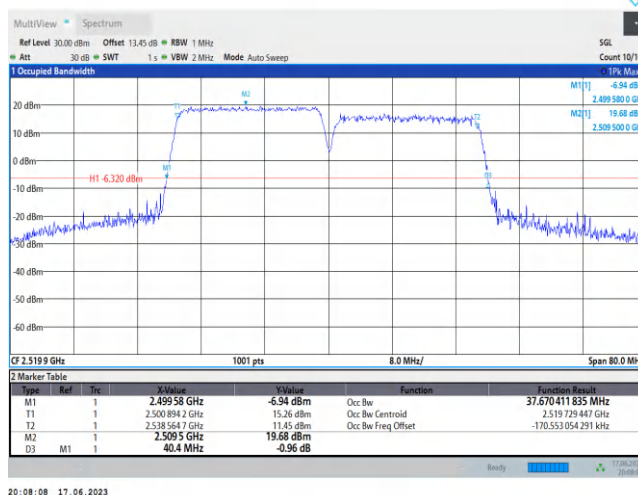
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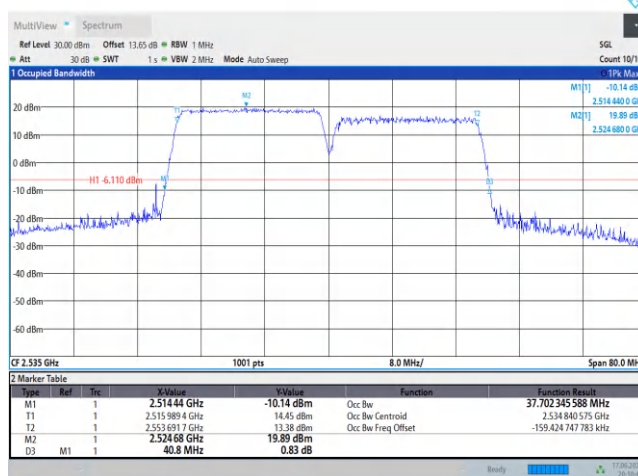
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### 7-7-20MHz-20MHz-64QAM-64QAM-20850-21048-100RB#0-100RB#0



20:08:08 17.06.2023

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20:10:49 17.06.2023



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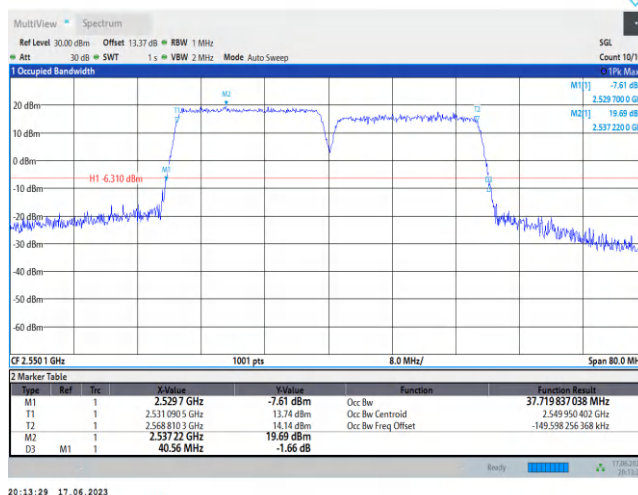
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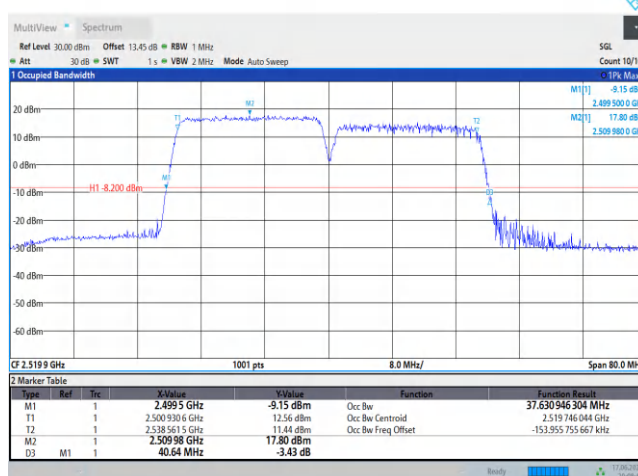
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### 7-7-20MHz-20MHz-64QAM-64QAM-21152-21350-100RB#0-100RB#0



20:13:29 17.06.2023

### 7-7-20MHz-20MHz-256QAM-256QAM-20850-21048-100RB#0-100RB#0



20:08:46 17.06.2023



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### 7-7-20MHz-20MHz-256QAM-256QAM-21001-21199-100RB#0-100RB#0



20:11:28 17.06.2023

### 7-7-20MHz-20MHz-256QAM-256QAM-21152-21350-100RB#0-100RB#0



20:14:08 17.06.2023



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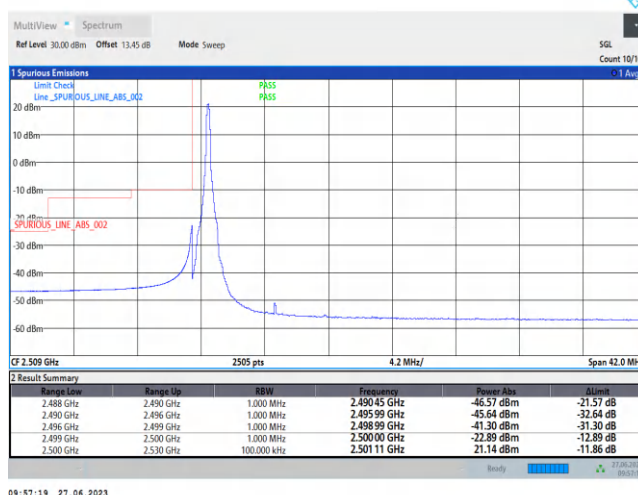
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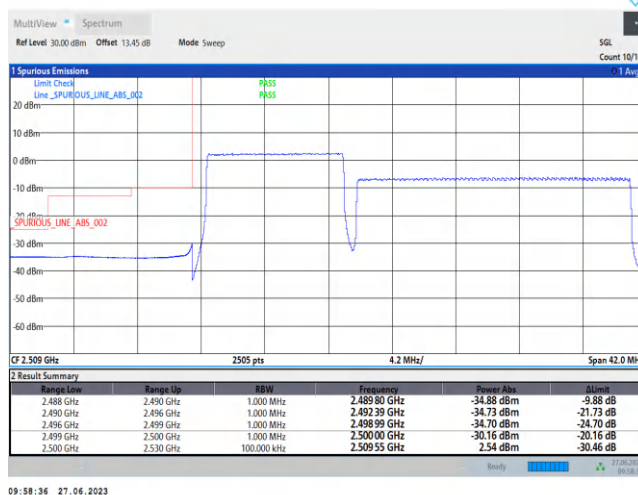
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#### 7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-1RB#0-0RB#0



09:57:19 27.06.2023

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09:58:36 27.06.2023



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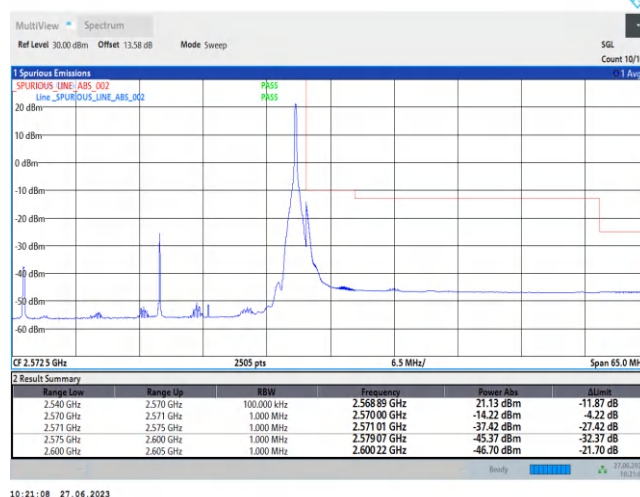
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### 7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-0RB#0-1RB#99



10:21:08 27.06.2023

### 7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-50RB#0-100RB#0



10:22:25 27.06.2023



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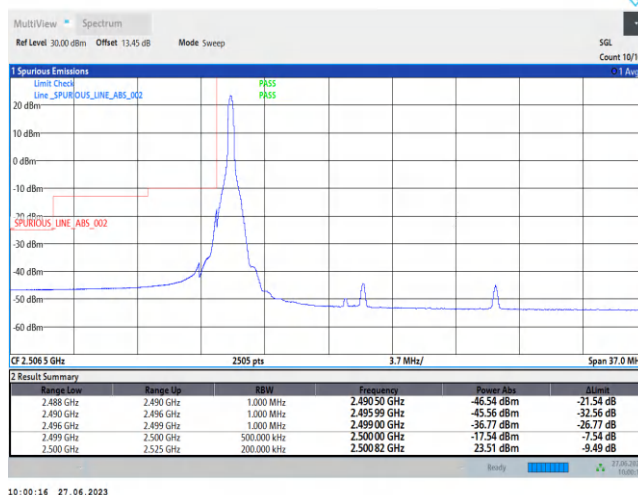
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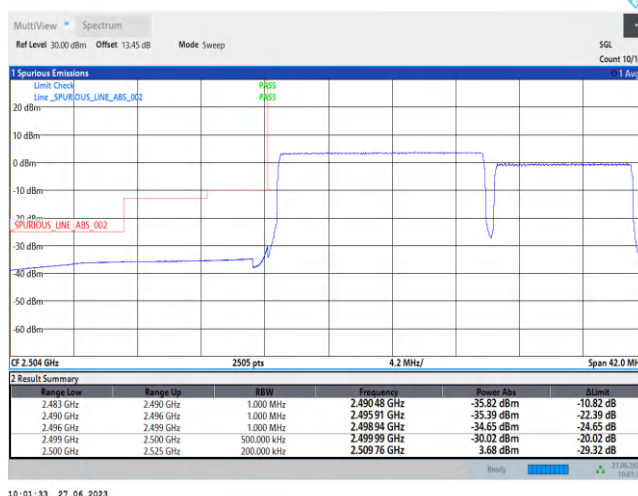
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### 7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-1RB#0-0RB#0



### 7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-75RB#0-50RB#0



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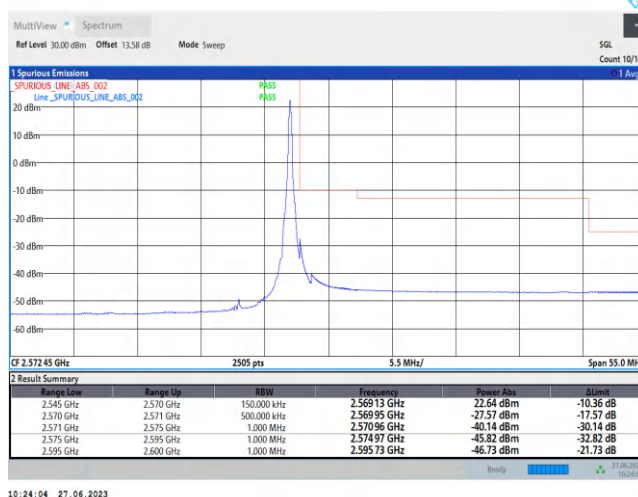
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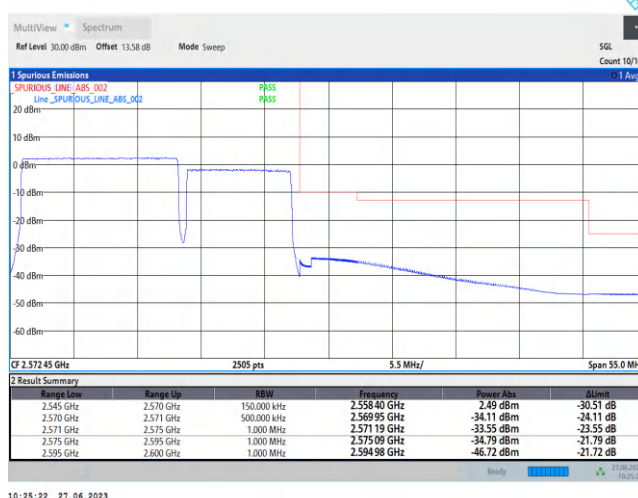
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### 7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-0RB#0-1RB#49



10:24:04 27.06.2023

### 7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-75RB#0-50RB#0



10:25:22 27.06.2023



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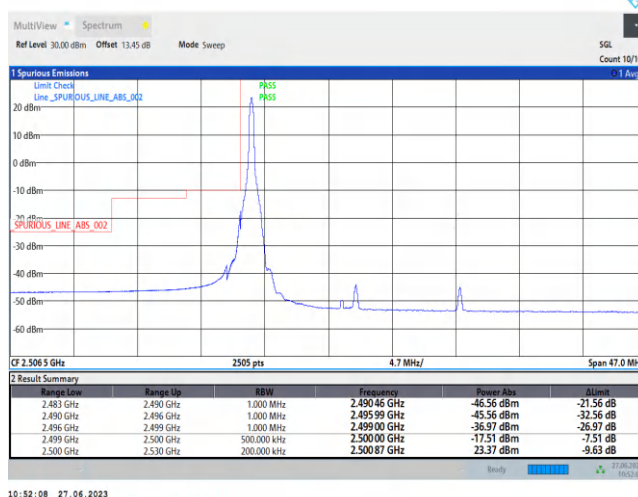
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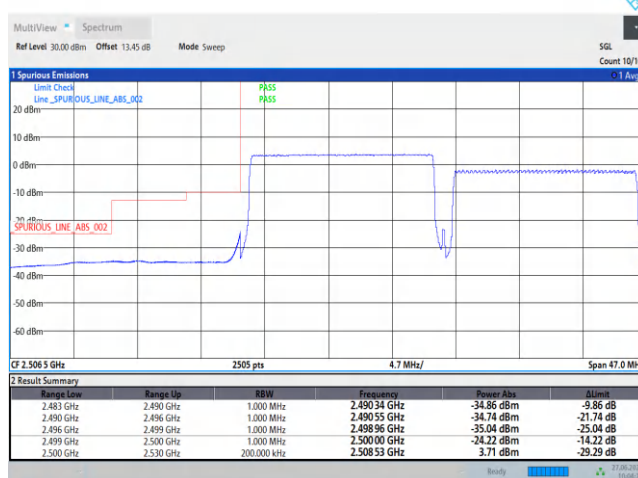
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### 7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0



10:52:08 27.06.2023

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10:04:28 27.06.2023



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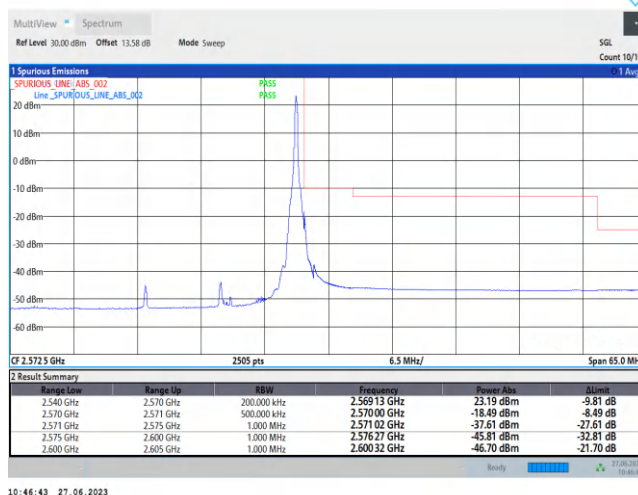
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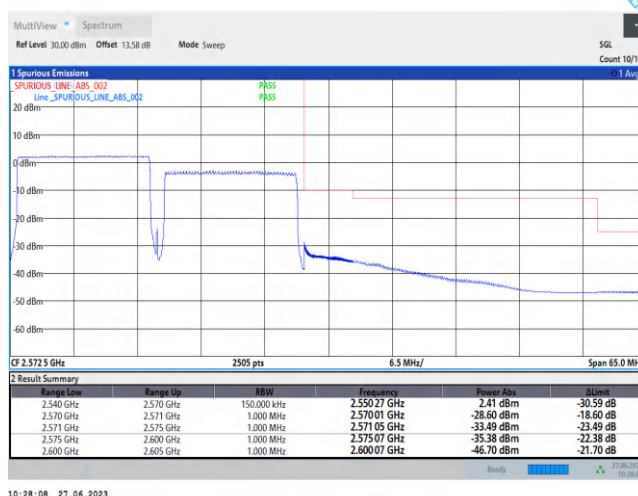
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10:46:43 27.06.2023

### 7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-75RB#0-75RB#0



10:28:08 27.06.2023



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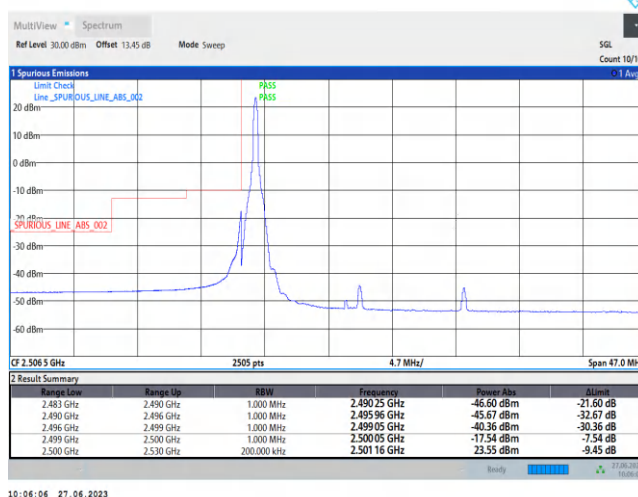
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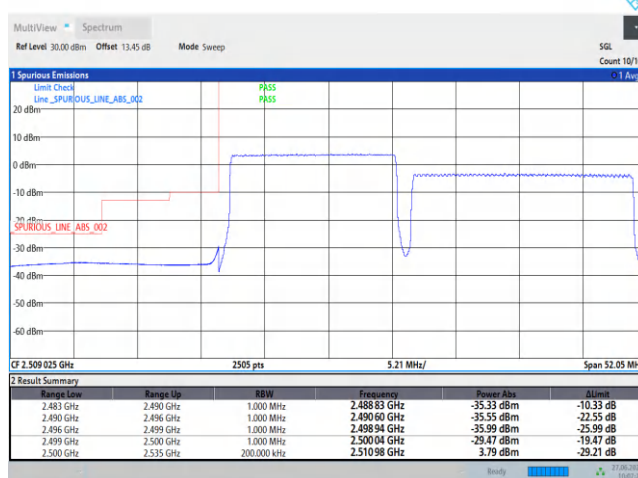
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10:06:06 27.06.2023

### 7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-75RB#0-100RB#0



10:07:24 27.06.2023



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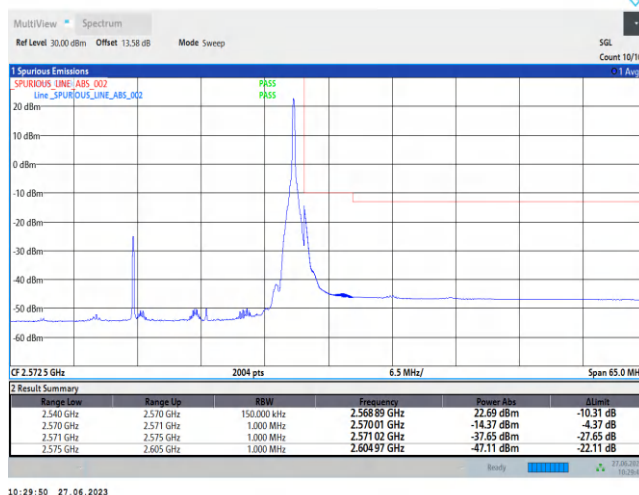
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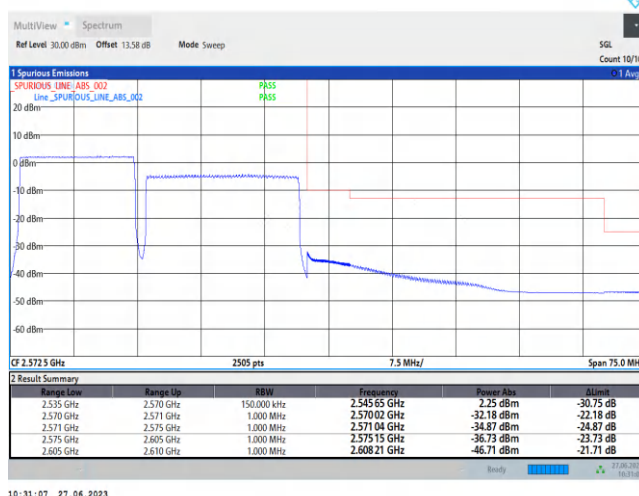
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### 7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-0RB#0-1RB#99



10:29:50 27.06.2023

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10:31:07 27.06.2023



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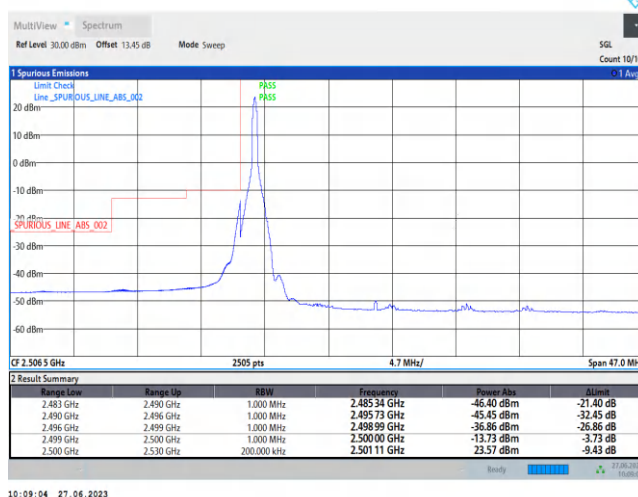
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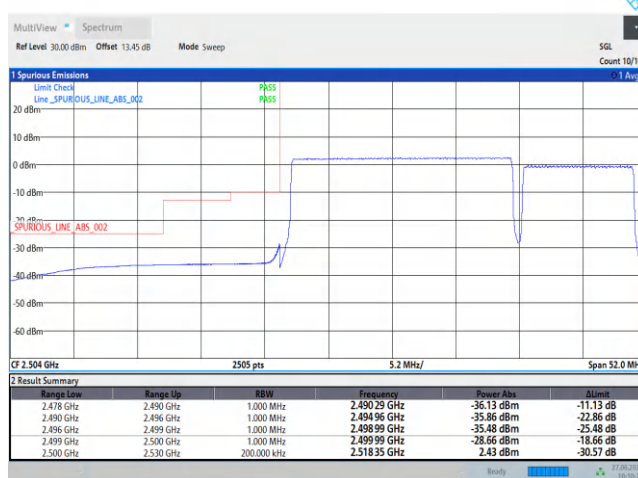
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### 7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-1RB#0-0RB#0



10:09:04 27.06.2023

### 7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-100RB#0-50RB#0



10:10:21 27.06.2023



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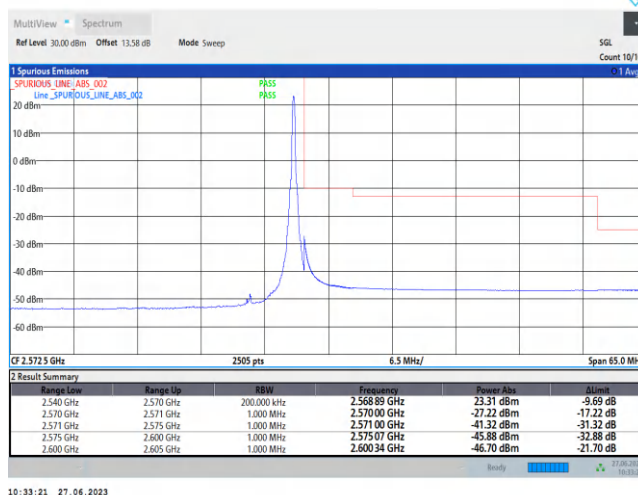
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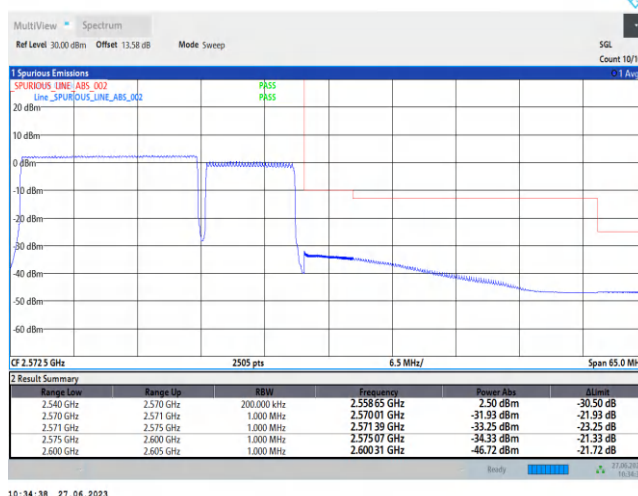
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### 7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-0RB#0-1RB#49



10:33:21 27.06.2023

### 7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-100RB#0-50RB#0



10:34:38 27.06.2023



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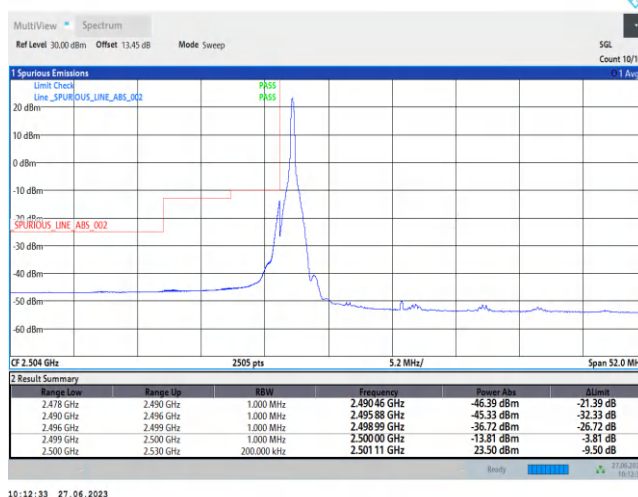
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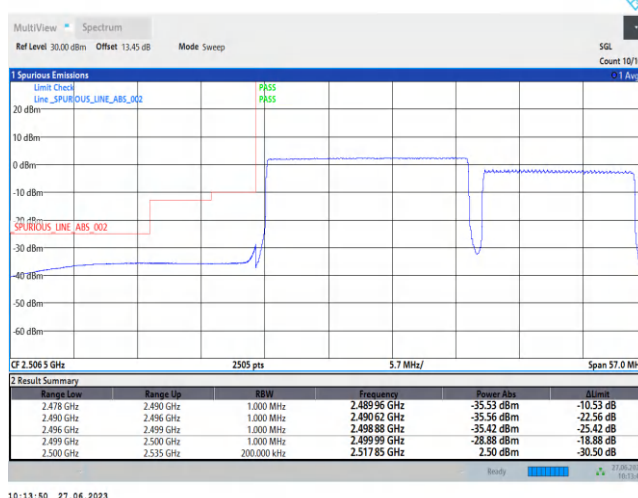
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### 7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-1RB#0-0RB#0



### 7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



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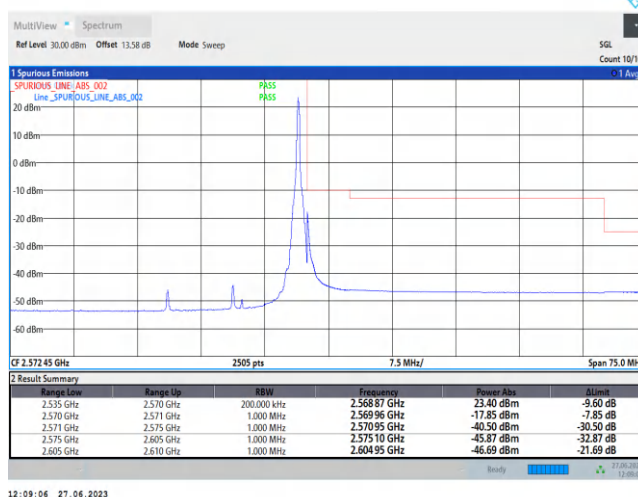
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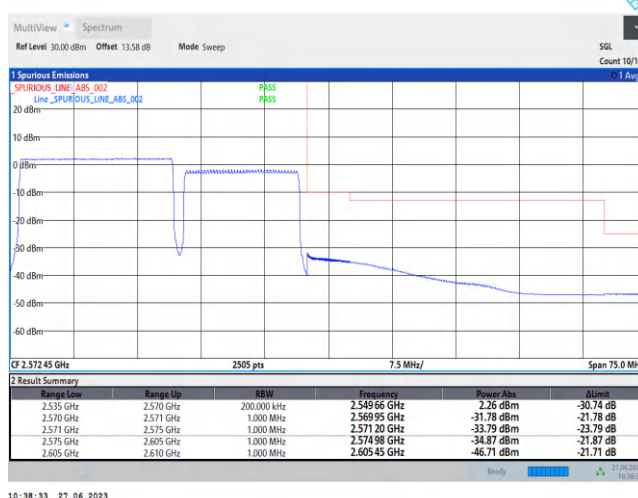
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### 7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-0RB#0-1RB#74



12:09:06 27.06.2023

### 7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-100RB#0-75RB#0



10:38:33 27.06.2023



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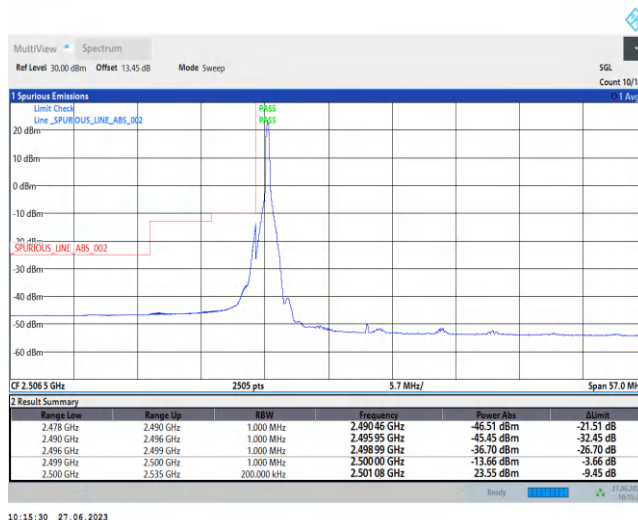
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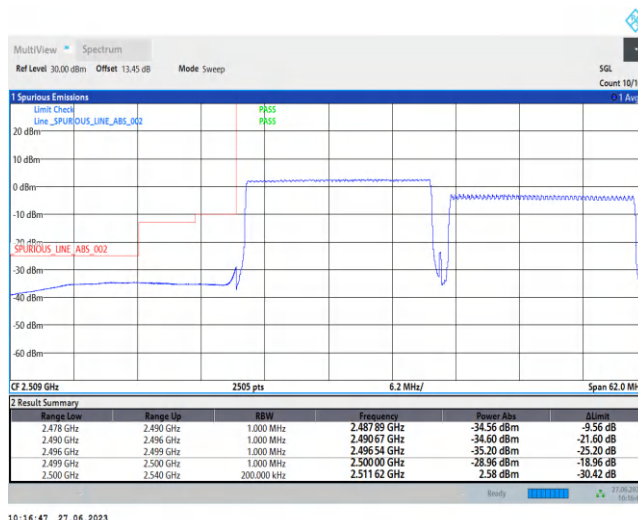
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### 7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0



10:15:30 27.06.2023

### 7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



10:16:47 27.06.2023



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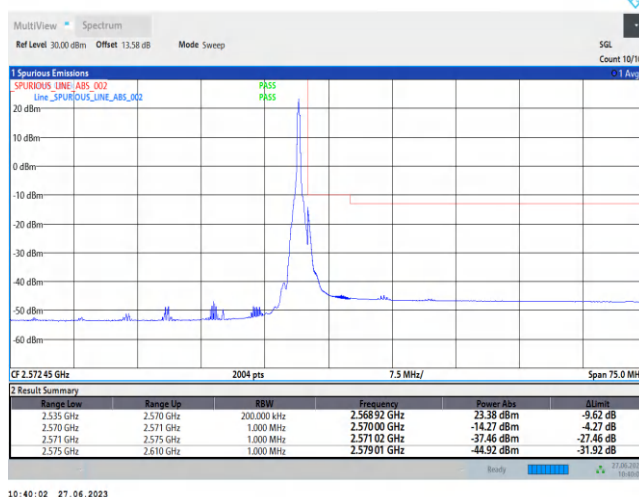
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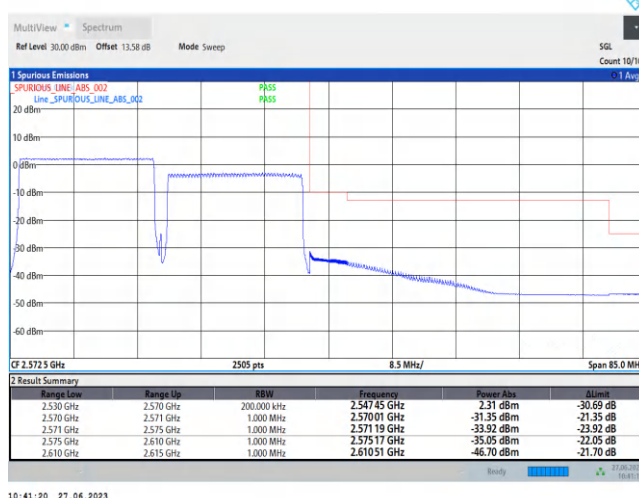
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### 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-0RB#0-1RB#99



10:40:02 27.06.2023

### 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



10:41:20 27.06.2023



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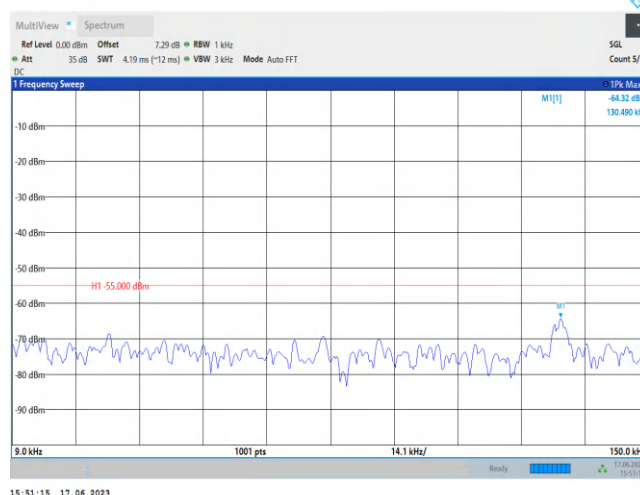
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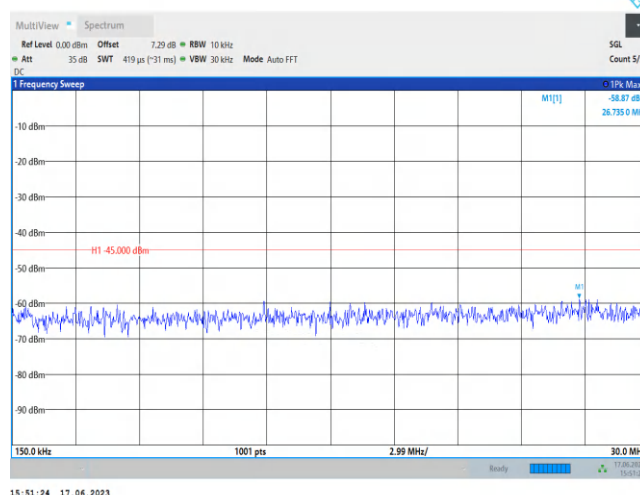
### Conducted Spurious Emission

#### Test Graphs

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.009~0.15MHz



7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.15~30MHz



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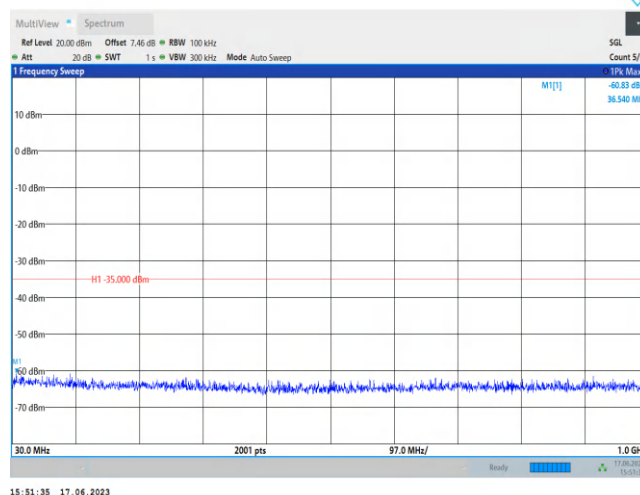
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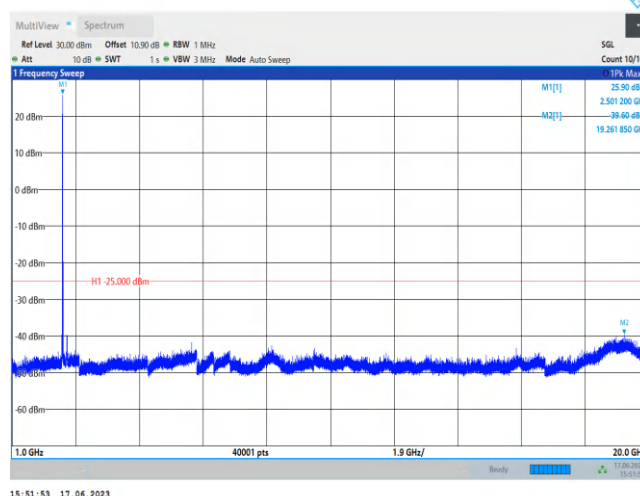
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### 7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-30~1000MHz



### 7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-1000~20000MHz



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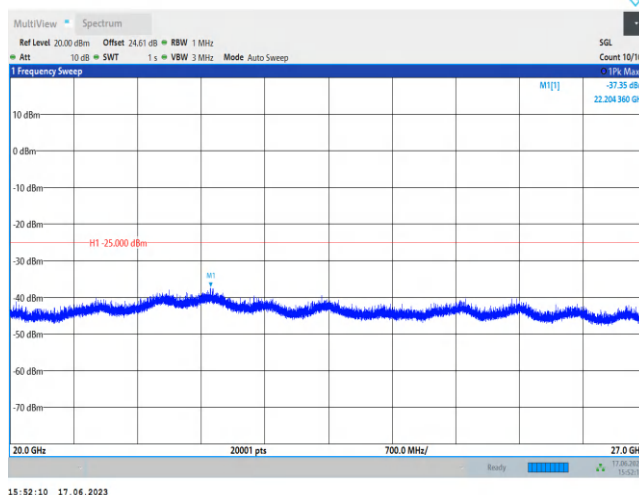
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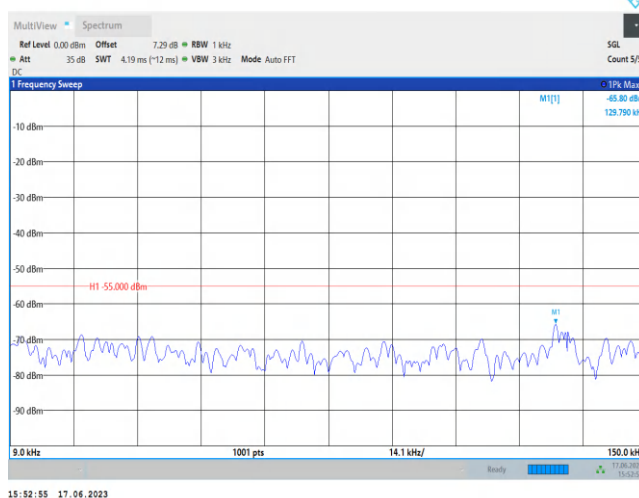
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### 7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-20000~27000MHz



### 7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.009~0.15MHz



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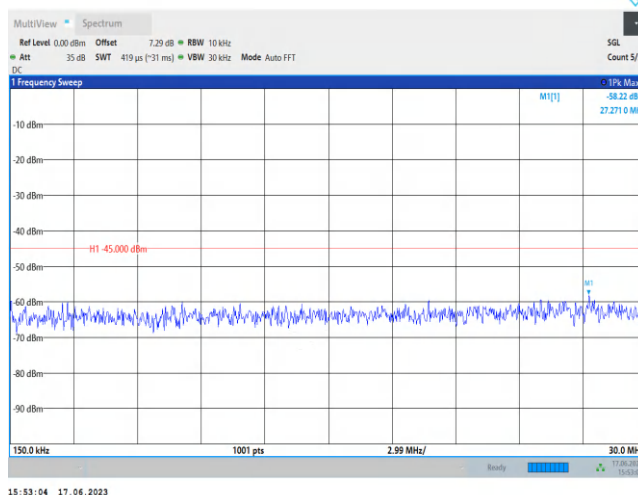
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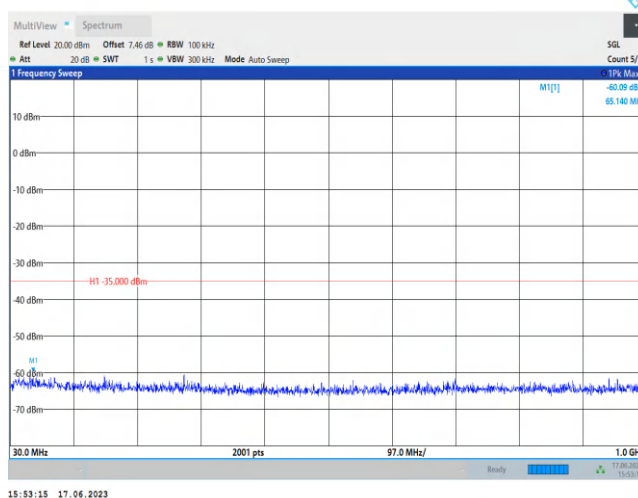
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### 7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.15~30MHz



### 7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-30~1000MHz



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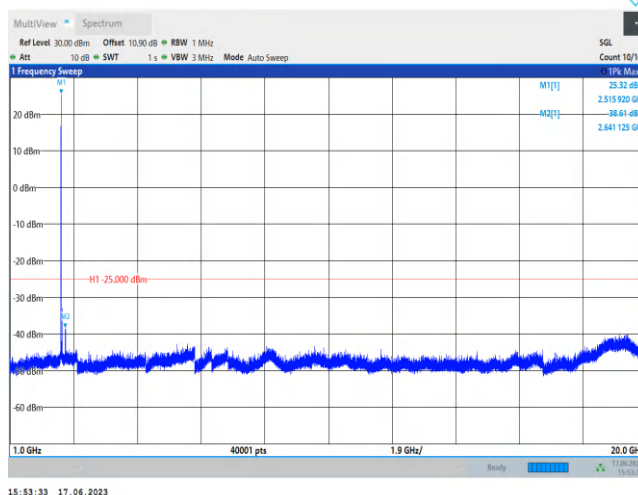
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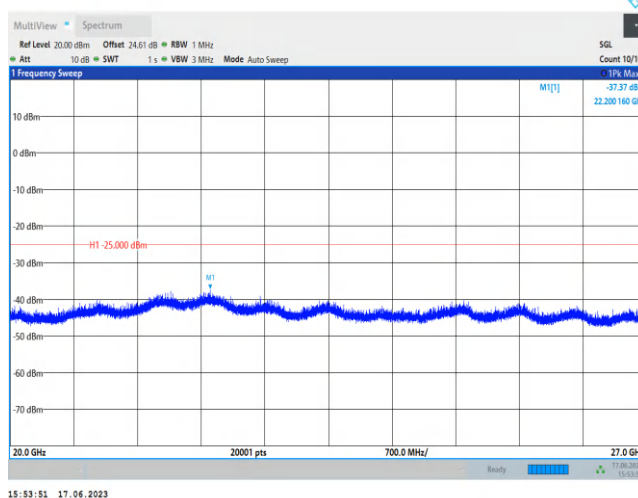
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### 7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-1000~20000MHz



### 7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-20000~27000MHz



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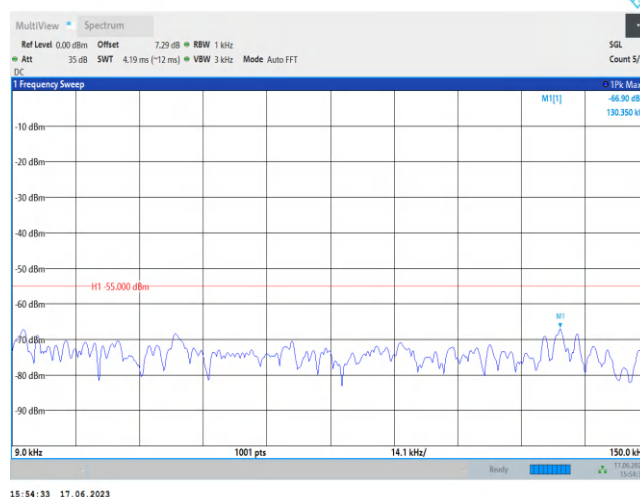
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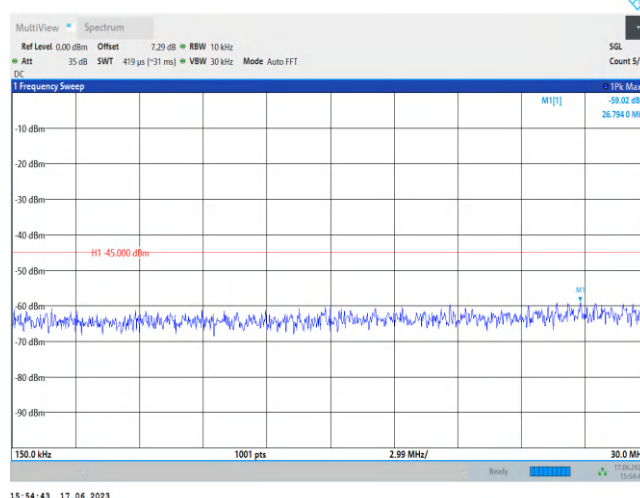
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### 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.009~0.15MHz



### 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.15~30MHz



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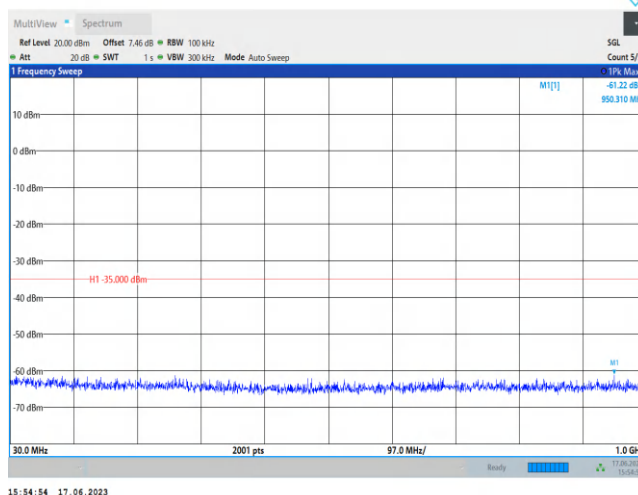
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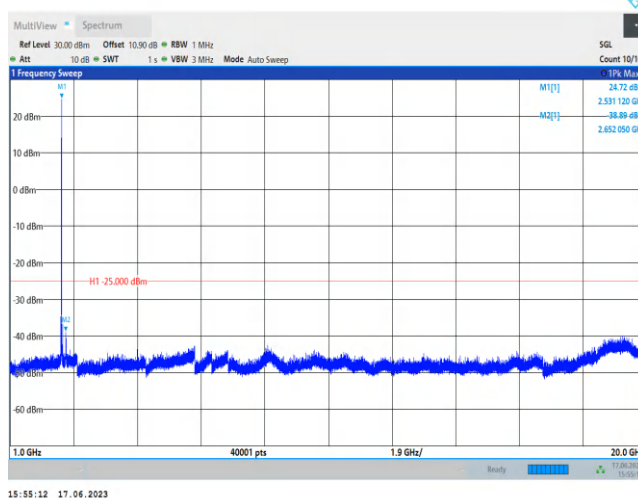
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### 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-30~1000MHz



### 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz



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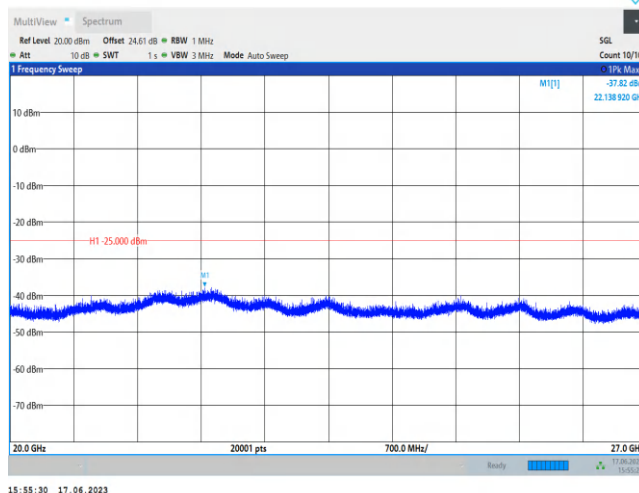
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### 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-20000~27000MHz



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## Field Strength of Spurious Radiation(Worse)

**Test Band = LTE Band7CA\_ TM1**
**Test Channel = Low**

| Final Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 4896.5             | 44.34             | -45.53         | 31.17    | -65.28         | -25.00         | 40.28          | 188            | 145          | Horizontal |
| 2               | 6736.5             | 42.77             | -43.94         | 34.73    | -61.71         | -25.00         | 36.71          | 162            | 0            | Horizontal |
| 3               | 8393.5             | 41.52             | -41.49         | 36.60    | -58.62         | -25.00         | 33.62          | 159            | 236          | Horizontal |
| 4               | 9424               | 39.37             | -39.93         | 37.11    | -58.71         | -25.00         | 33.71          | 194            | 72           | Horizontal |
| 5               | 11254              | 36.37             | -37.41         | 38.73    | -57.57         | -25.00         | 32.57          | 172            | 307          | Horizontal |
| 6               | 12659              | 36.60             | -37.07         | 39.00    | -56.73         | -25.00         | 31.73          | 163            | 145          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 4686.5             | 43.83             | -45.61         | 30.71    | -66.33         | -25.00         | 41.33          | 175            | 161          | Vertical |
| 2               | 6325               | 43.65             | -44.51         | 33.74    | -62.38         | -25.00         | 37.38          | 146            | 360          | Vertical |
| 3               | 7754               | 41.95             | -42.68         | 36.70    | -59.29         | -25.00         | 34.29          | 182            | 324          | Vertical |
| 4               | 8839               | 40.46             | -41.25         | 36.38    | -59.67         | -25.00         | 34.67          | 153            | 36           | Vertical |
| 5               | 10245.5            | 37.93             | -39.31         | 38.32    | -58.32         | -25.00         | 33.32          | 266            | 88           | Vertical |
| 6               | 12659.5            | 35.96             | -37.06         | 39.00    | -57.36         | -25.00         | 32.36          | 130            | 3            | Vertical |



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**Test Band = LTE Band7CA\_ TM1**
**Test Channel = Mid**

| Final Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 4244               | 44.25             | -45.67         | 29.69    | -66.99         | -25.00         | 41.99          | 211            | 0            | Horizontal |
| 2               | 6347               | 42.64             | -44.48         | 33.81    | -63.29         | -25.00         | 38.29          | 156            | 357          | Horizontal |
| 3               | 7234.5             | 41.92             | -43.53         | 35.86    | -61.02         | -25.00         | 36.02          | 231            | 270          | Horizontal |
| 4               | 8812.5             | 40.19             | -41.25         | 36.39    | -59.93         | -25.00         | 34.93          | 163            | 343          | Horizontal |
| 5               | 9849.5             | 38.49             | -39.41         | 37.91    | -58.26         | -25.00         | 33.26          | 251            | 109          | Horizontal |
| 6               | 11769              | 35.91             | -36.95         | 38.78    | -57.52         | -25.00         | 32.52          | 148            | 307          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 4922               | 44.54             | -45.55         | 31.23    | -65.05         | -25.00         | 40.05          | 244            | 127          | Vertical |
| 2               | 5838.5             | 43.11             | -44.83         | 32.67    | -64.32         | -25.00         | 39.32          | 186            | 271          | Vertical |
| 3               | 7563.5             | 41.76             | -43.01         | 36.63    | -59.88         | -25.00         | 34.88          | 163            | 163          | Vertical |
| 4               | 8555               | 40.26             | -41.46         | 36.52    | -59.94         | -25.00         | 34.94          | 259            | 353          | Vertical |
| 5               | 10577              | 37.01             | -38.55         | 38.49    | -58.31         | -25.00         | 33.31          | 148            | 288          | Vertical |
| 6               | 12349.5            | 35.99             | -37.48         | 38.90    | -57.85         | -25.00         | 32.85          | 172            | 353          | Vertical |



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**Test Band = LTE Band7CA\_ TM1**
**Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 4465.5          | 43.70          | -45.75      | 30.22    | -67.09      | -25.00      | 42.09       | 284         | 91        | Horizontal |
| 2               | 5839.5          | 43.00          | -44.84      | 32.67    | -64.43      | -25.00      | 39.43       | 156         | 200       | Horizontal |
| 3               | 6658            | 42.89          | -44.04      | 34.58    | -61.82      | -25.00      | 36.82       | 142         | 0         | Horizontal |
| 4               | 8004.5          | 41.25          | -42.31      | 36.80    | -59.52      | -25.00      | 34.52       | 106         | 163       | Horizontal |
| 5               | 9444            | 39.36          | -40.01      | 37.14    | -58.76      | -25.00      | 33.76       | 136         | 218       | Horizontal |
| 6               | 11280           | 36.33          | -37.41      | 38.73    | -57.62      | -25.00      | 32.62       | 259         | 146       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 5422            | 43.29          | -45.29      | 32.41    | -64.84      | -25.00      | 39.84       | 211         | 142       | Vertical |
| 2               | 7866            | 41.88          | -42.65      | 36.75    | -59.28      | -25.00      | 34.28       | 158         | 360       | Vertical |
| 3               | 9324            | 39.81          | -40.13      | 36.92    | -58.66      | -25.00      | 33.66       | 179         | 161       | Vertical |
| 4               | 10698.5         | 36.13          | -37.89      | 38.55    | -58.47      | -25.00      | 33.47       | 156         | 268       | Vertical |
| 5               | 12708.5         | 36.09          | -36.69      | 39.01    | -56.85      | -25.00      | 31.85       | 183         | 71        | Vertical |
| 6               | 14480.5         | 34.39          | -34.83      | 41.09    | -54.61      | -25.00      | 29.61       | 145         | 360       | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

| Band | Bandwidth   | Modulation | Channel     | RB Configure    | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|------|-------------|------------|-------------|-----------------|---------------|------------------|----------------|-----------------|---------|
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | VH            | NT               | 68.60          | 0.027167        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | VL            | NT               | 71.40          | 0.028276        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | VN            | NT               | 70.50          | 0.027920        | PASS    |

| Band | Bandwidth   | Modulation | Channel     | RB Configure    | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|------|-------------|------------|-------------|-----------------|---------------|------------------|----------------|-----------------|---------|
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 50               | 71.00          | 0.028118        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 40               | 68.30          | 0.027048        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 30               | 70.60          | 0.027959        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 20               | 69.50          | 0.027524        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 10               | 68.80          | 0.027246        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 0                | 72.30          | 0.028633        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | -10              | 71.60          | 0.028355        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | -20              | 69.40          | 0.027484        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | -30              | 69.60          | 0.027563        | PASS    |

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