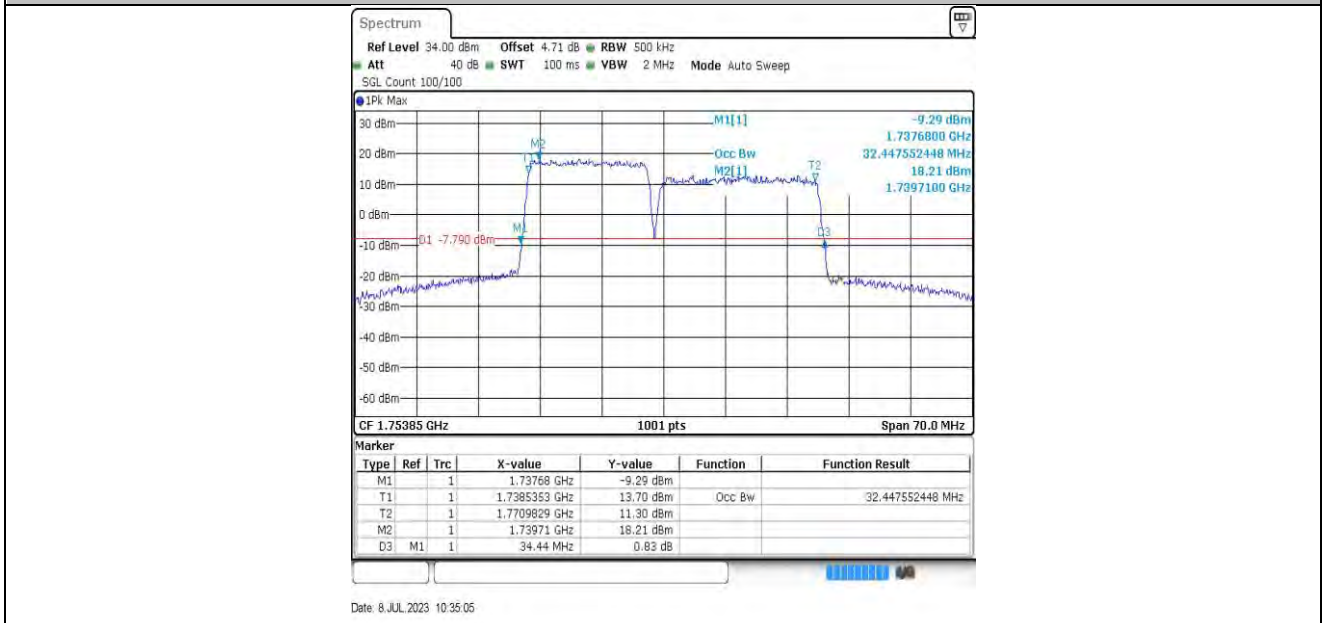


### 15MHz-20MHz-132050-132221 QPSK-QPSK



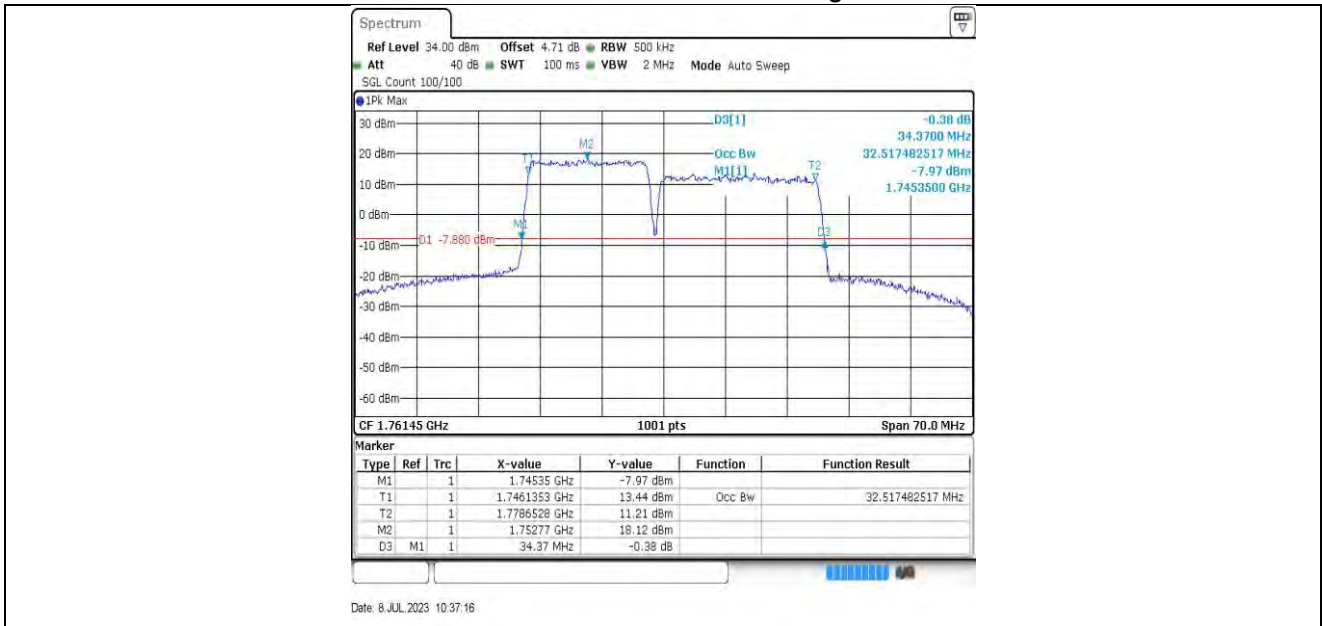
### 15MHz-20MHz-132325-132496 QPSK-QPSK



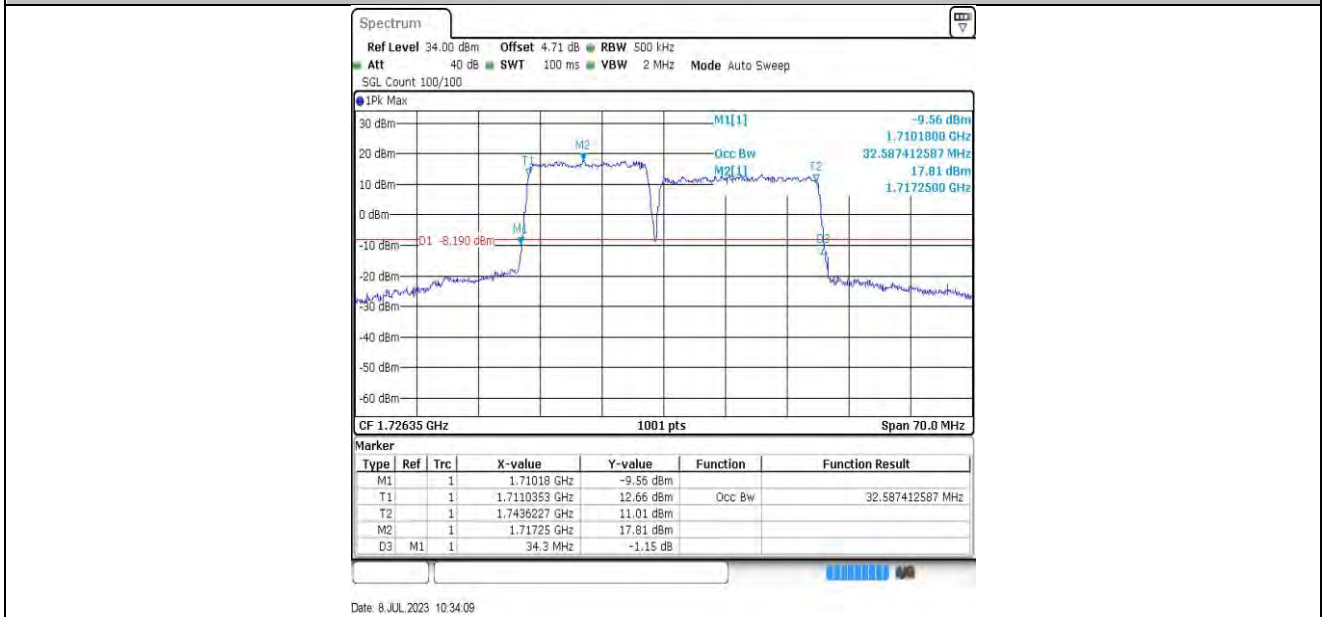
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### 15MHz-20MHz-132401-132572 QPSK-QPSK



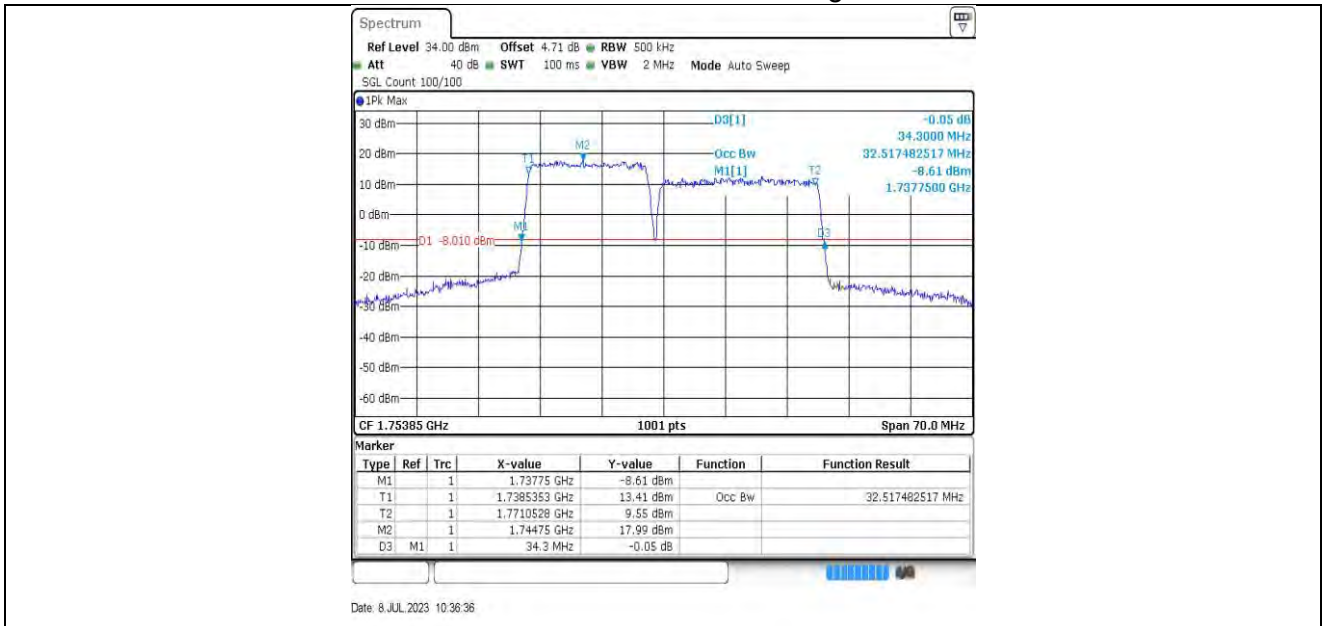
### 15MHz-20MHz-132050-132221 16QAM-16QAM



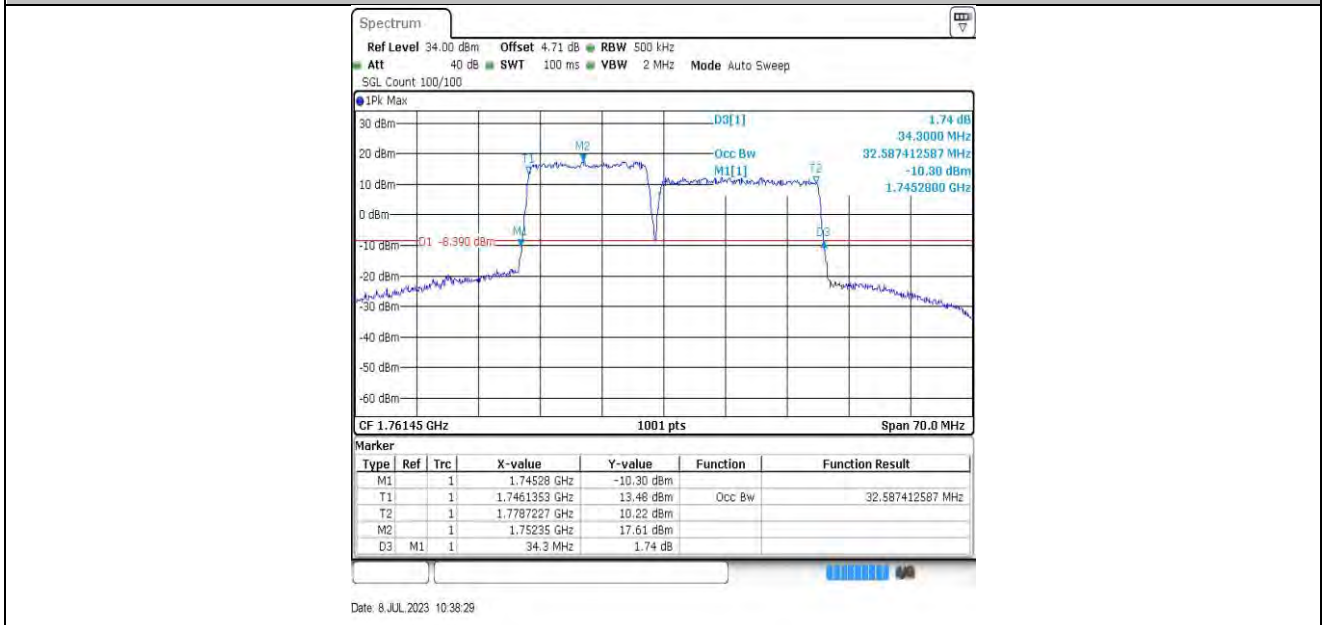
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### 15MHz-20MHz-132325-132496 16QAM-16QAM



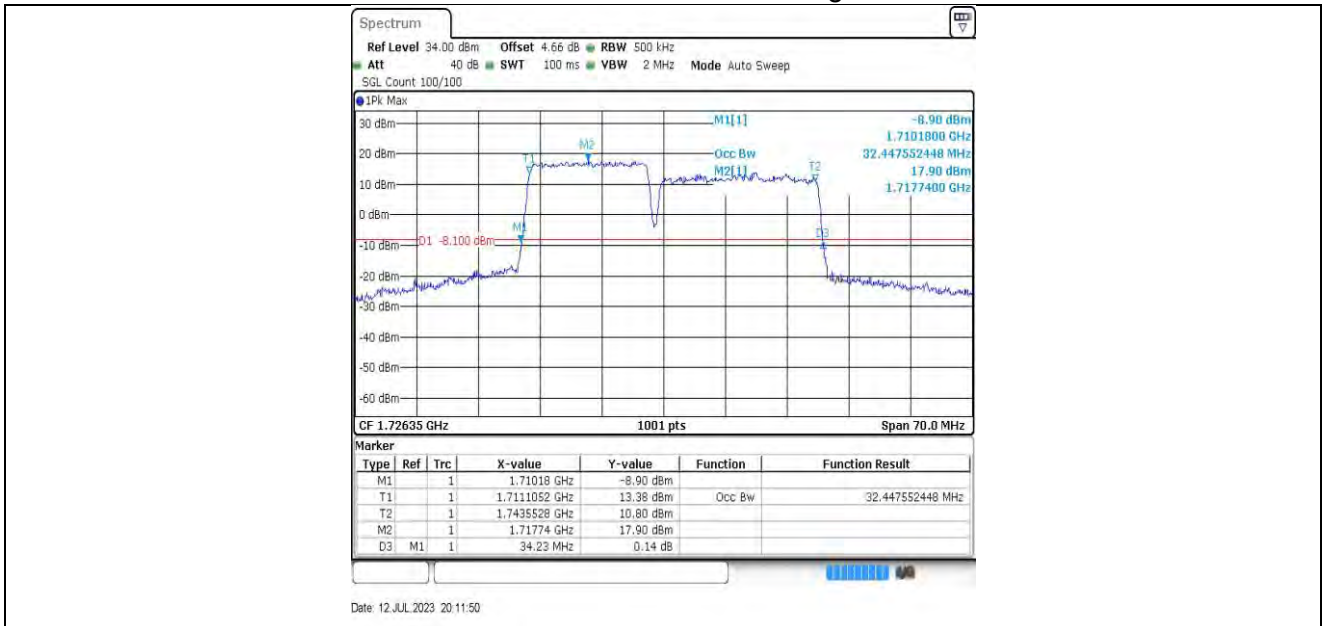
### 15MHz-20MHz-132401-132572 16QAM-16QAM



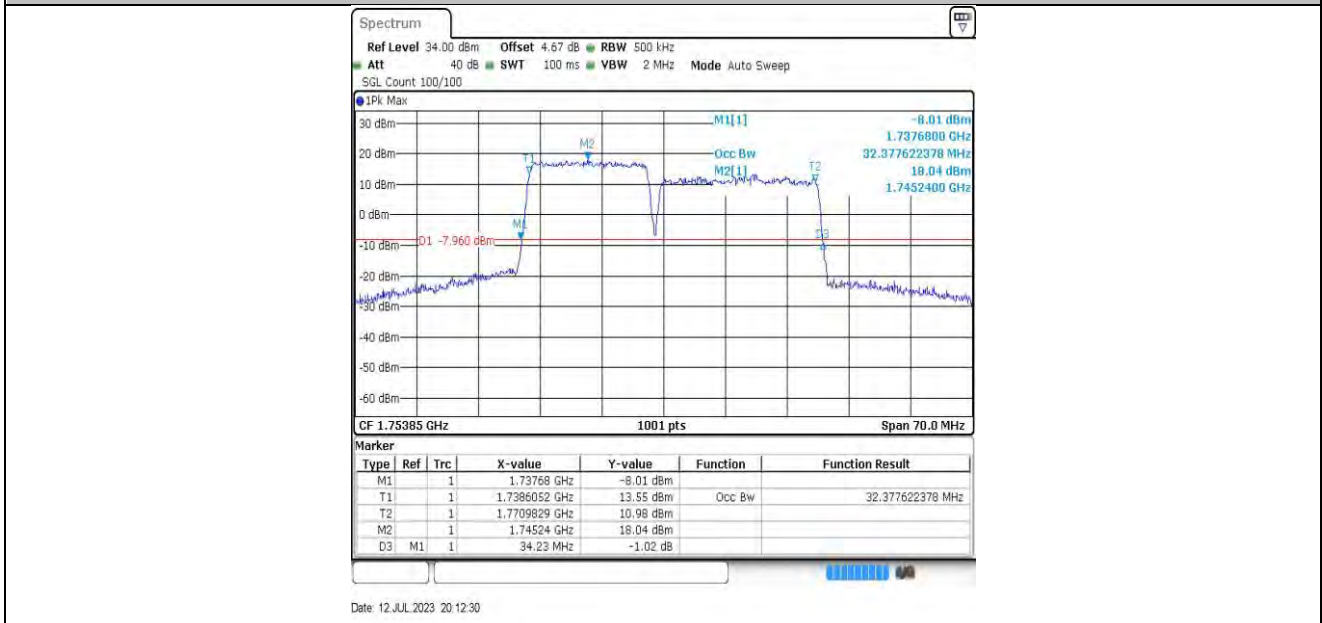
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### 15MHz-20MHz-132050-132221 64QAM-64QAM



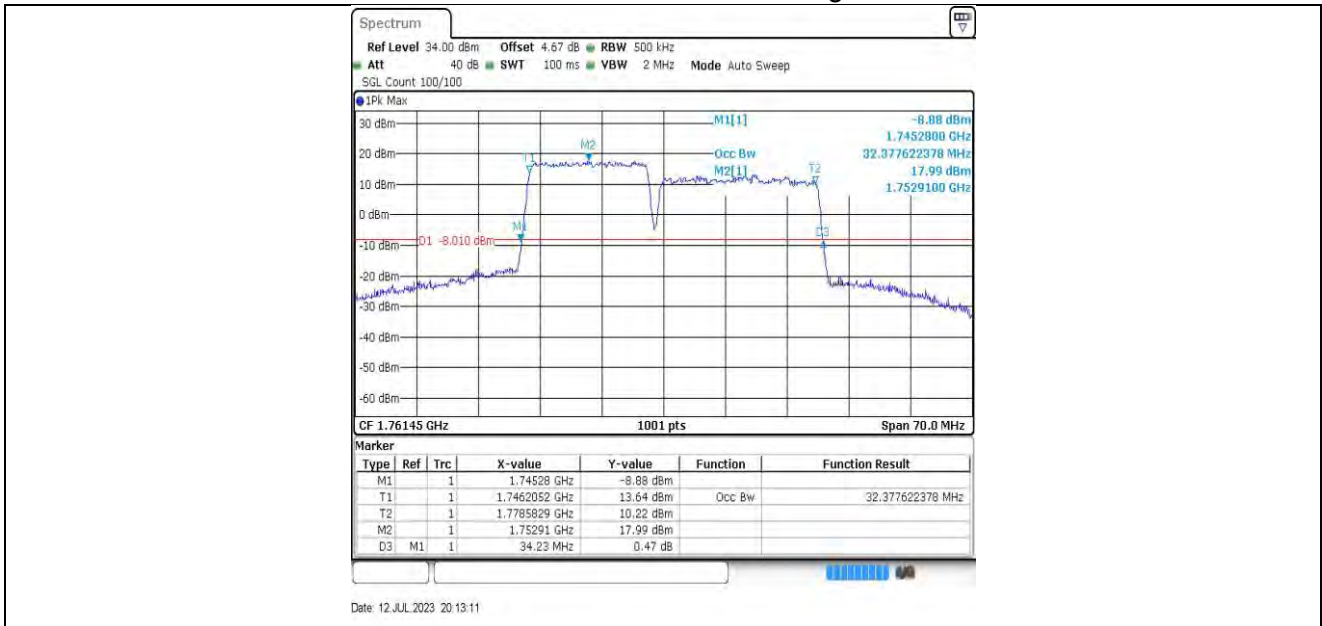
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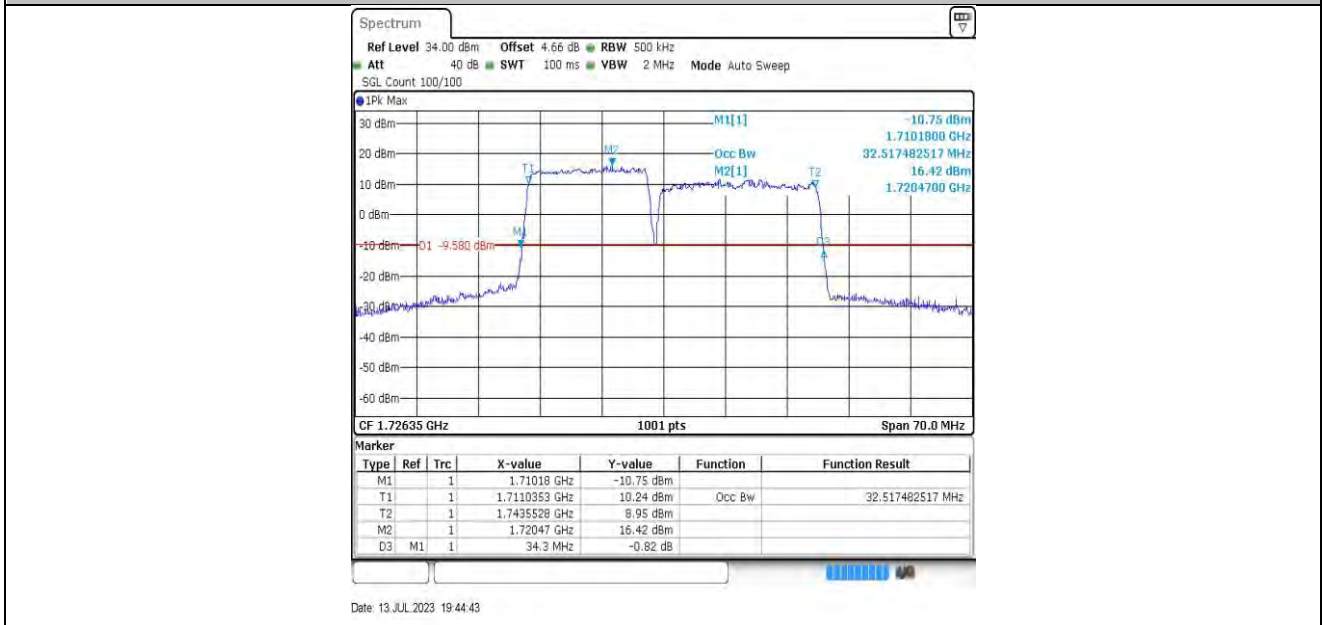
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### 15MHz-20MHz-132401-132572 64QAM-64QAM



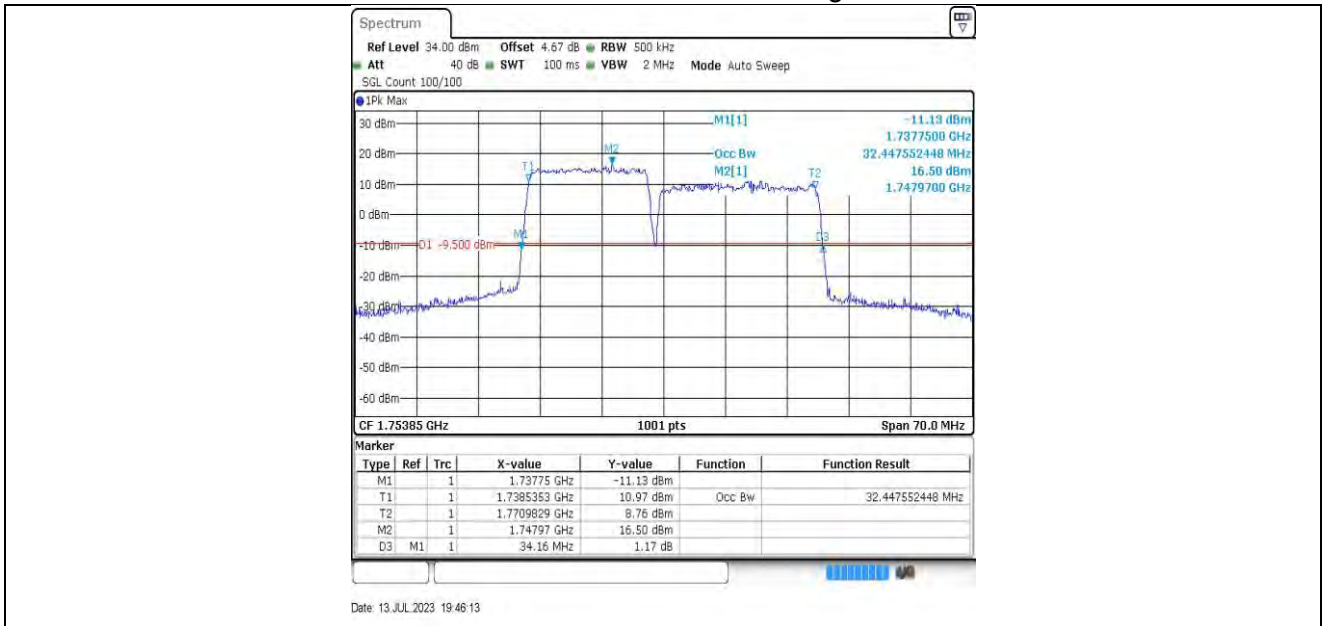
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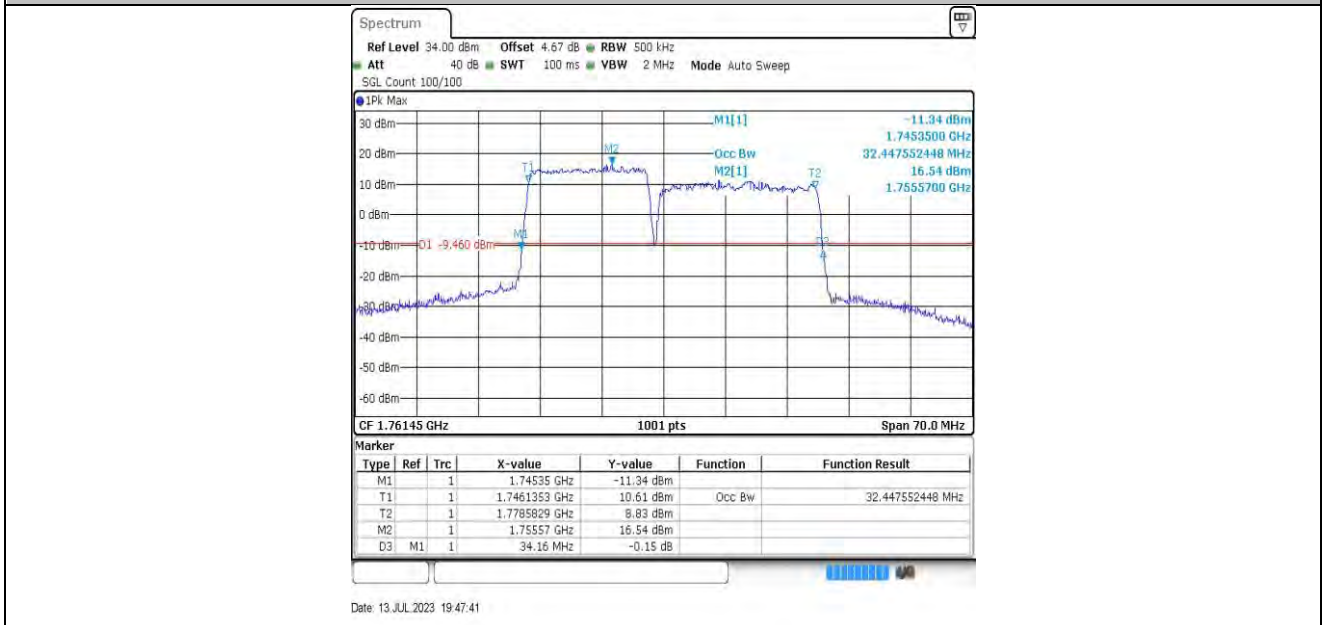
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15MHz-20MHz-132325-132496 256QAM-256QAM



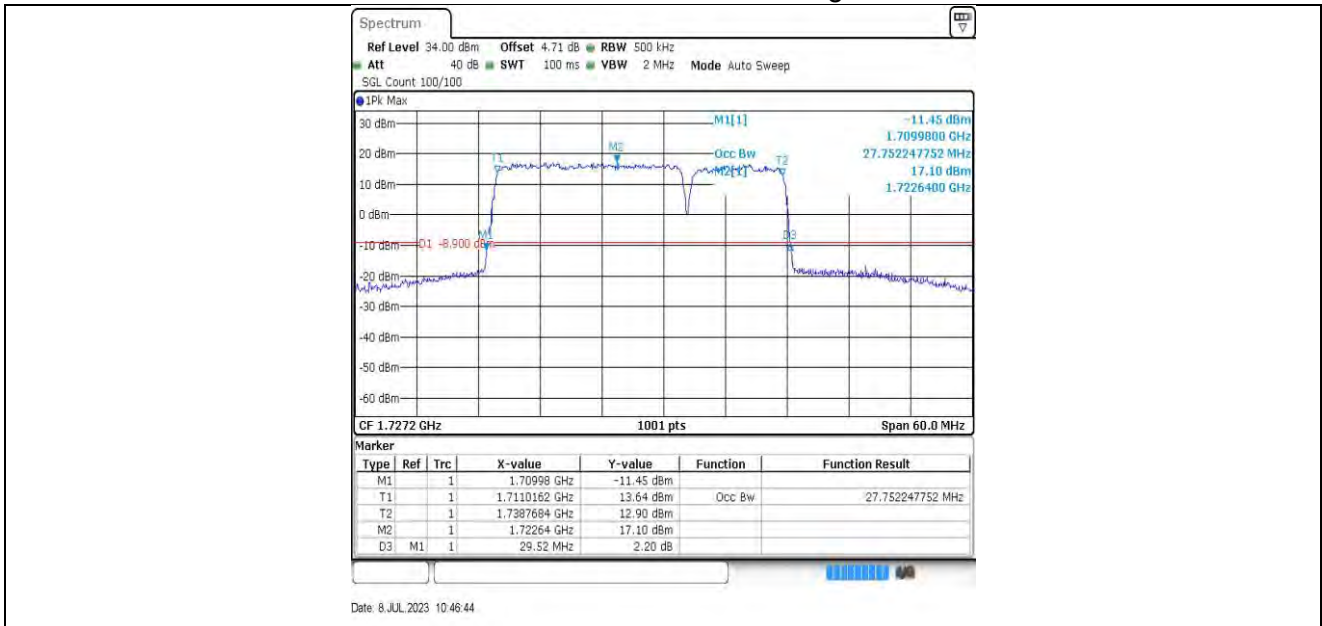
15MHz-20MHz-132401-132572 256QAM-256QAM



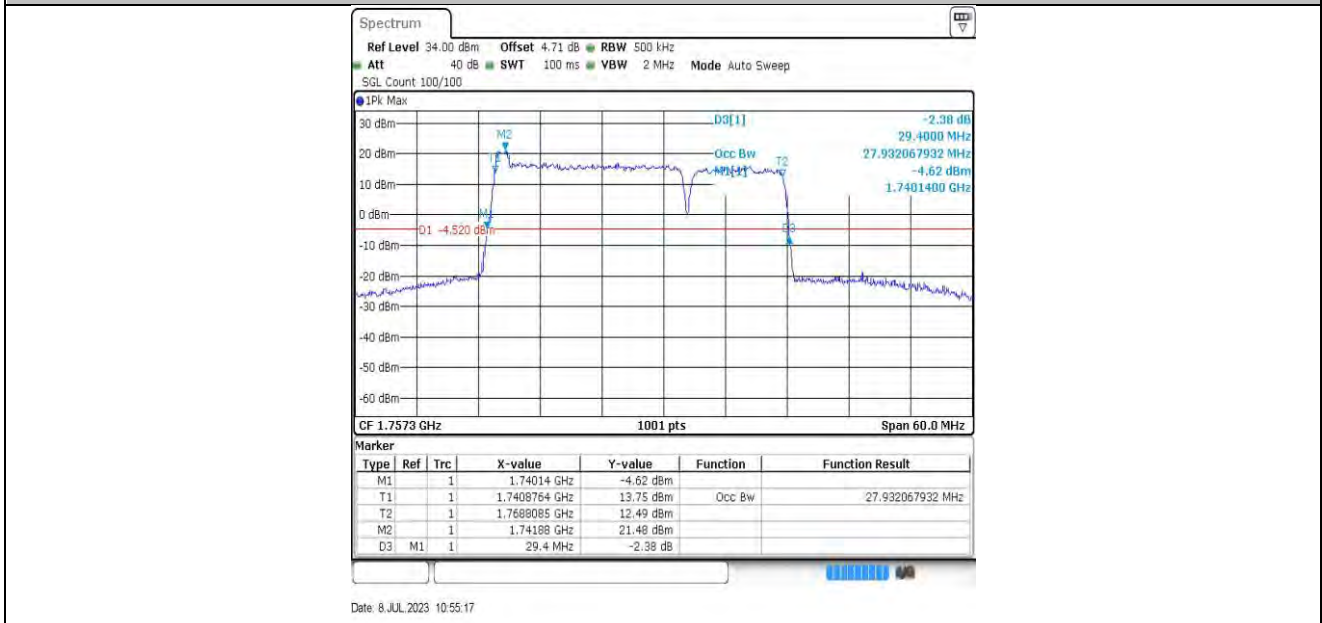
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### 20MHz-10MHz-132072-132216 QPSK-QPSK



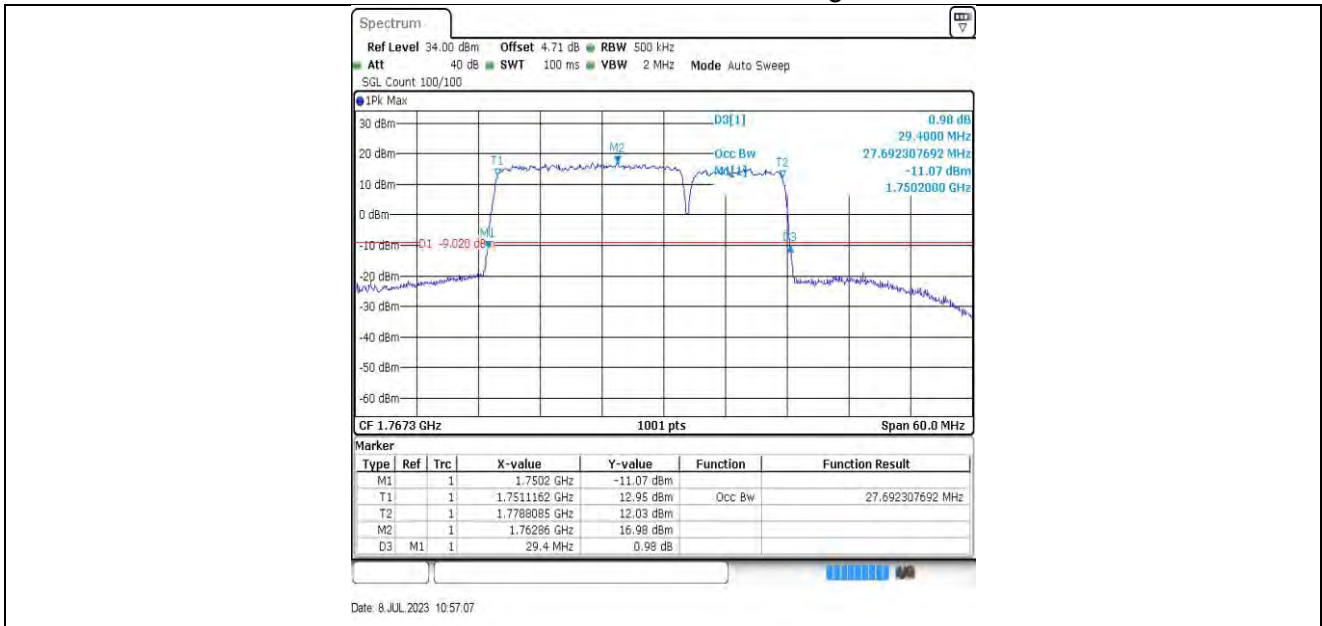
### 20MHz-10MHz-132373-132517 QPSK-QPSK



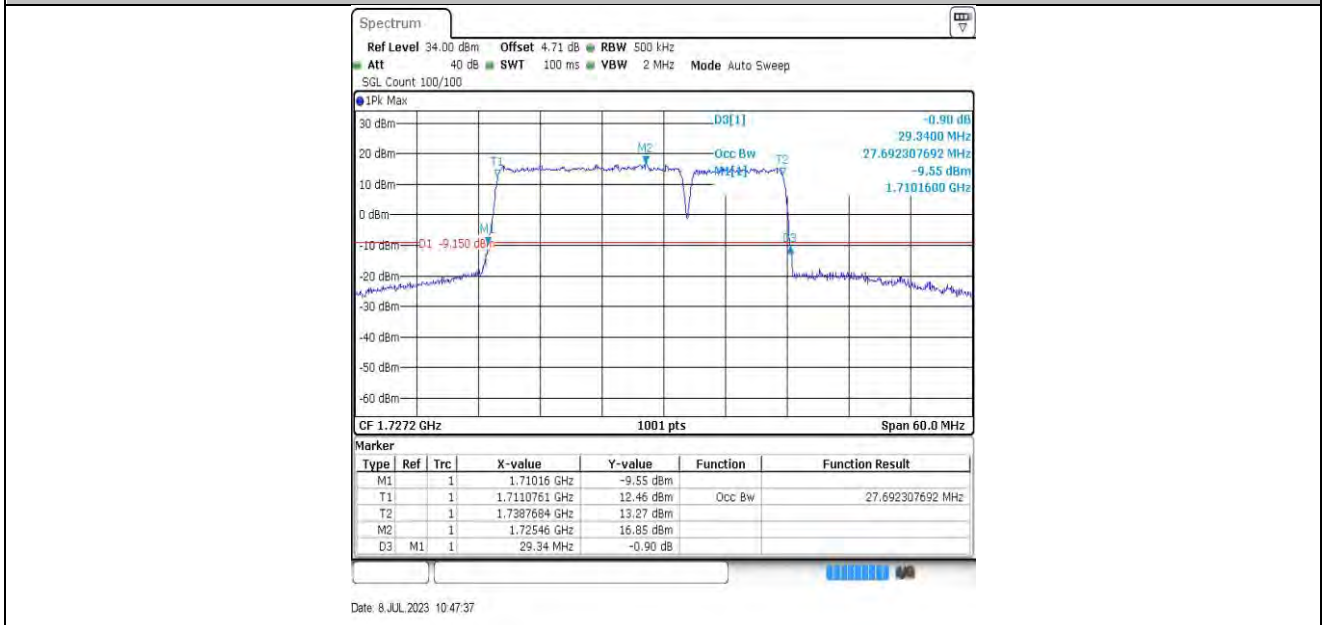
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### 20MHz-10MHz-132473-132617 QPSK-QPSK



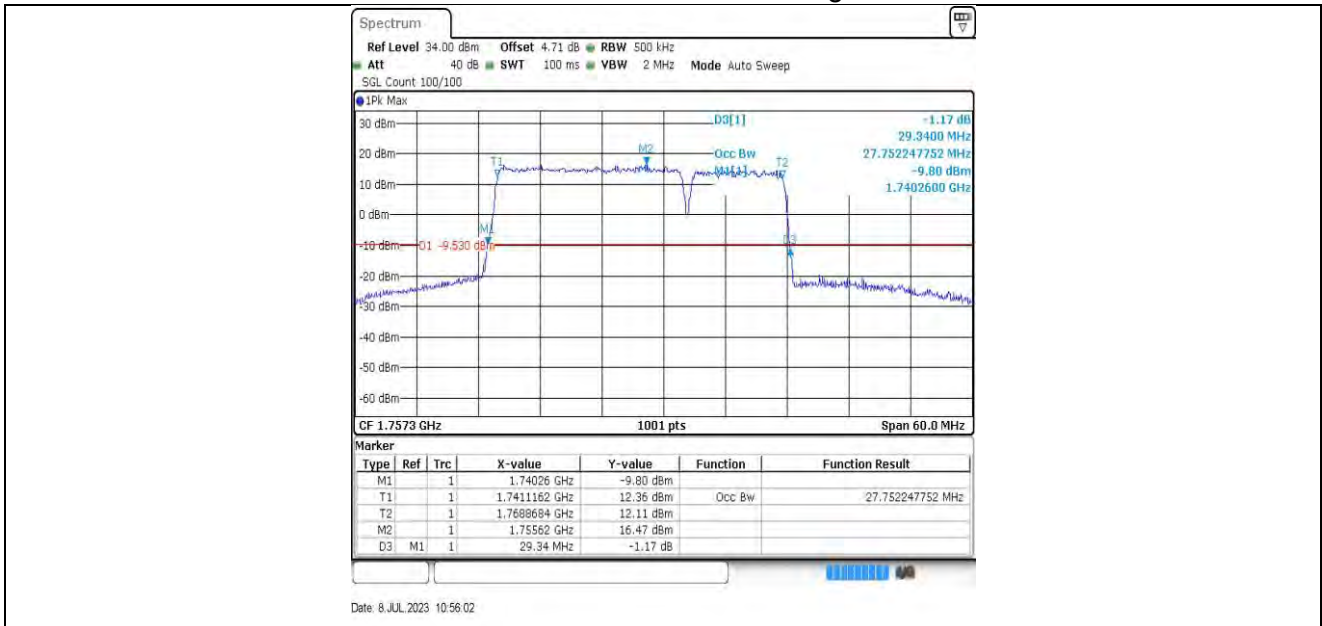
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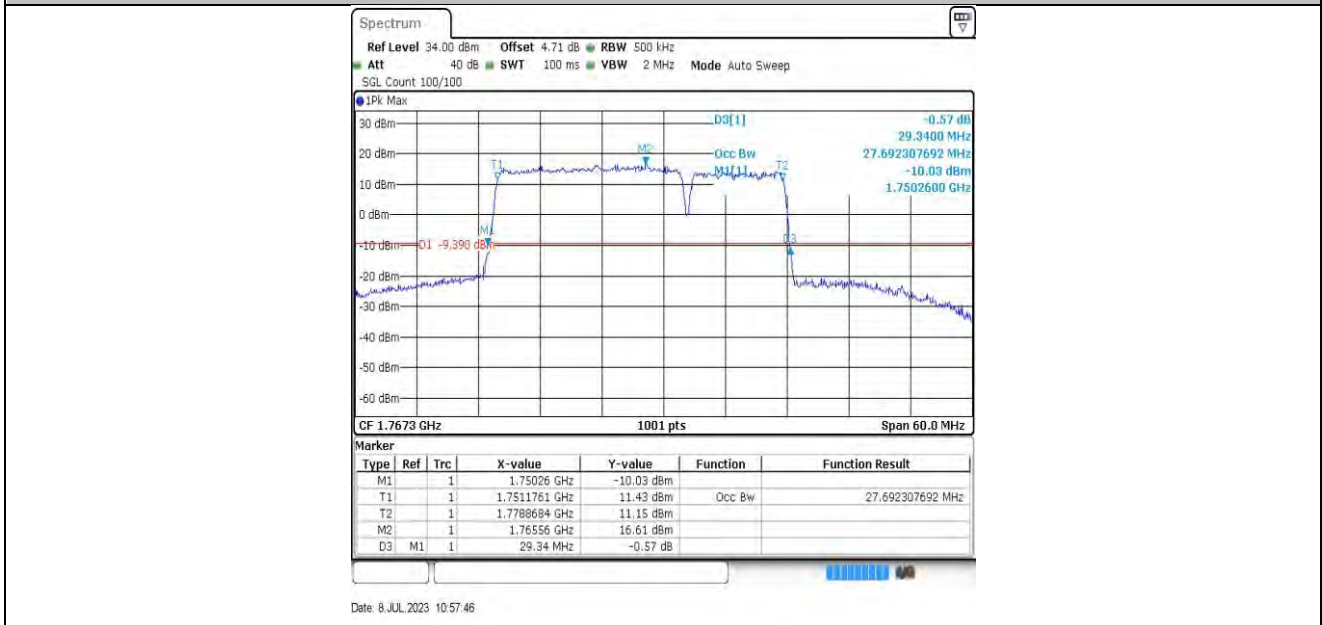
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### 20MHz-10MHz-132373-132517 16QAM-16QAM



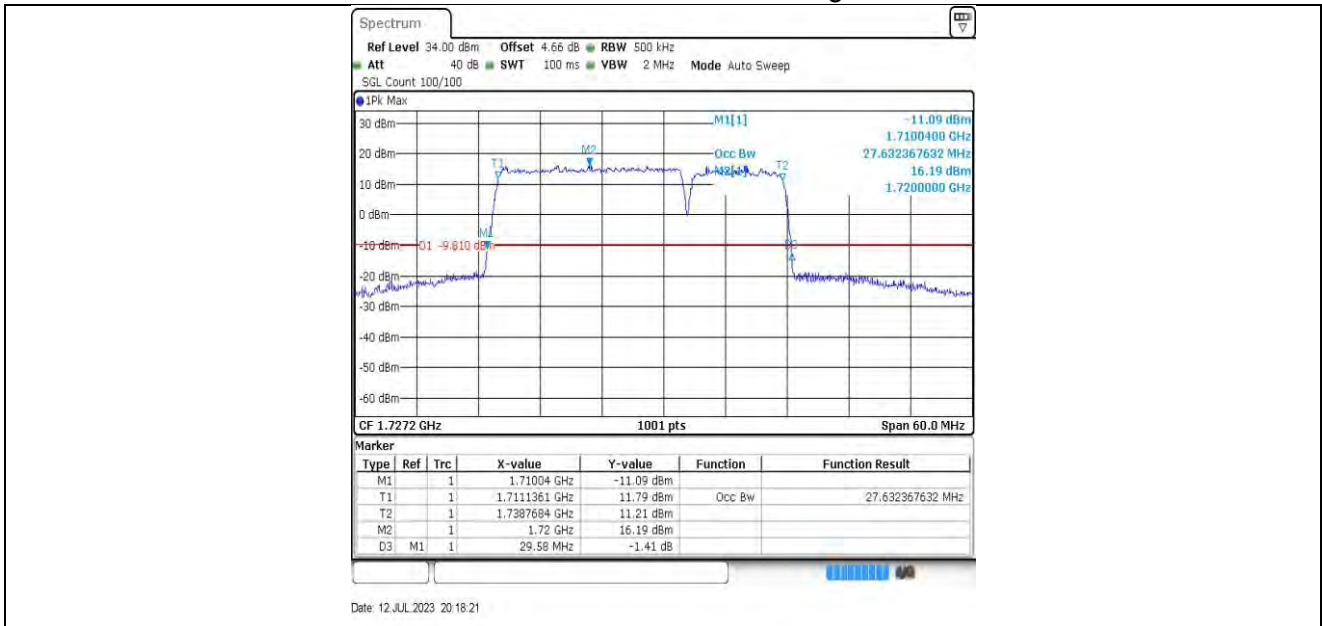
### 20MHz-10MHz-132473-132617 16QAM-16QAM



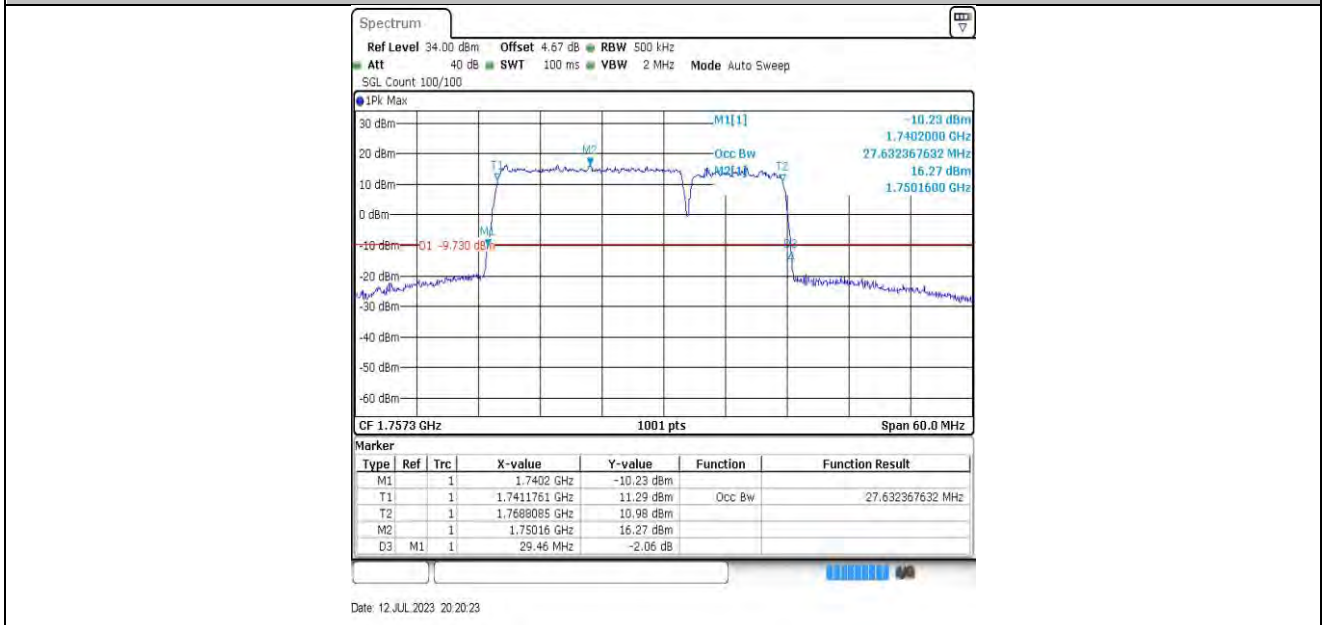
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### 20MHz-10MHz-132072-132216 64QAM-64QAM



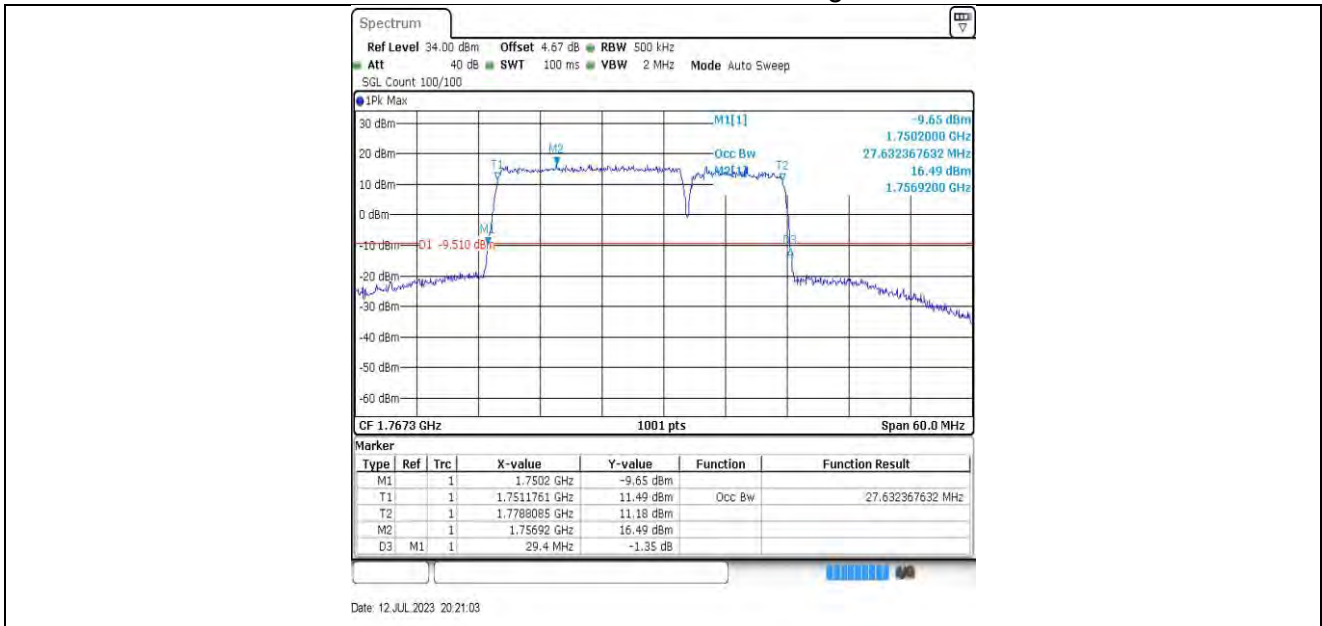
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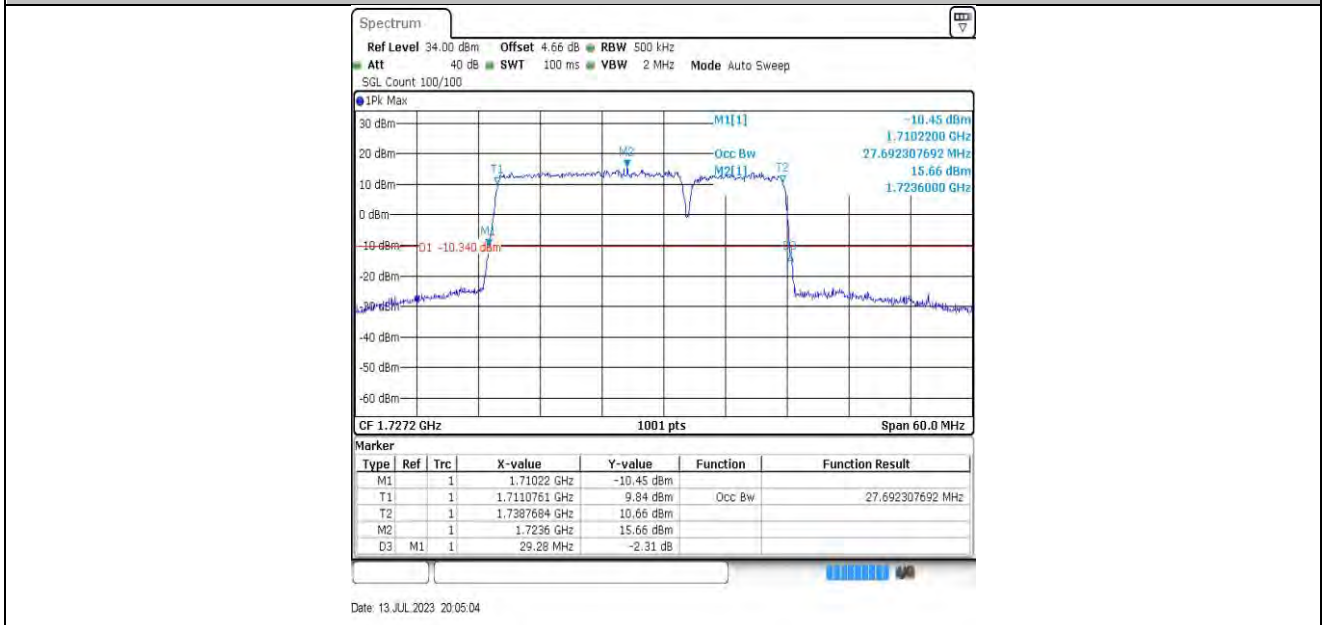
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### 20MHz-10MHz-132473-132617 64QAM-64QAM



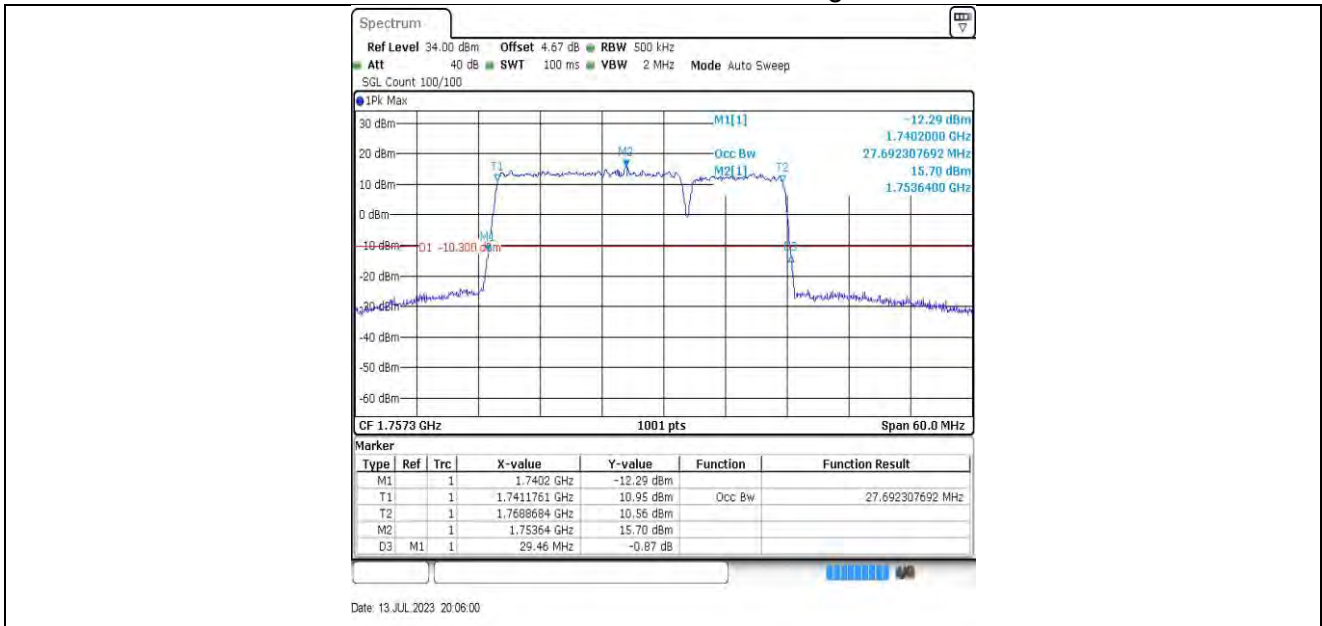
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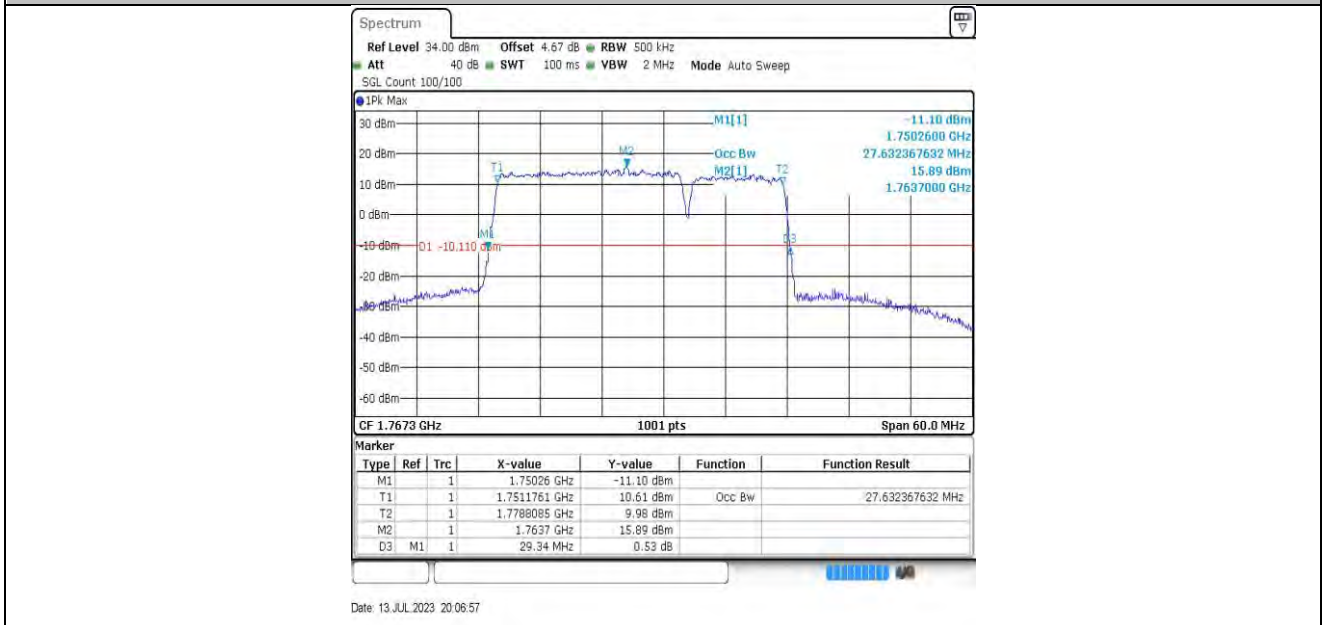
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20MHz-10MHz-132373-132517 256QAM-256QAM



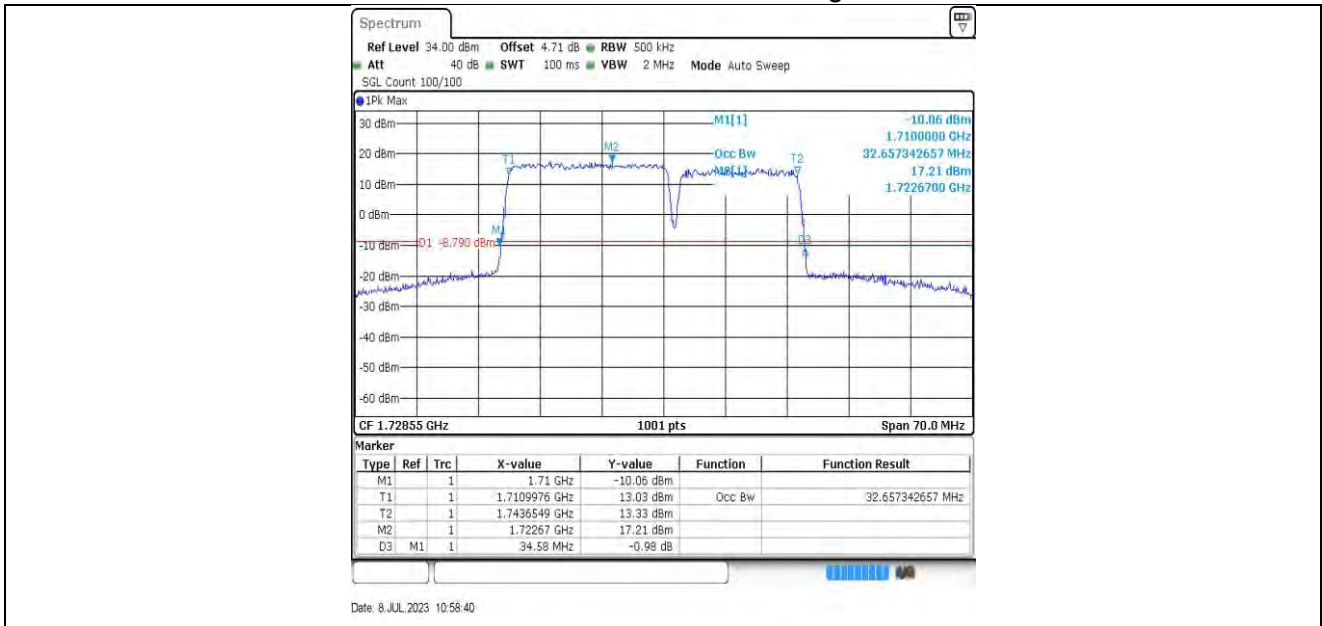
20MHz-10MHz-132473-132617 256QAM-256QAM



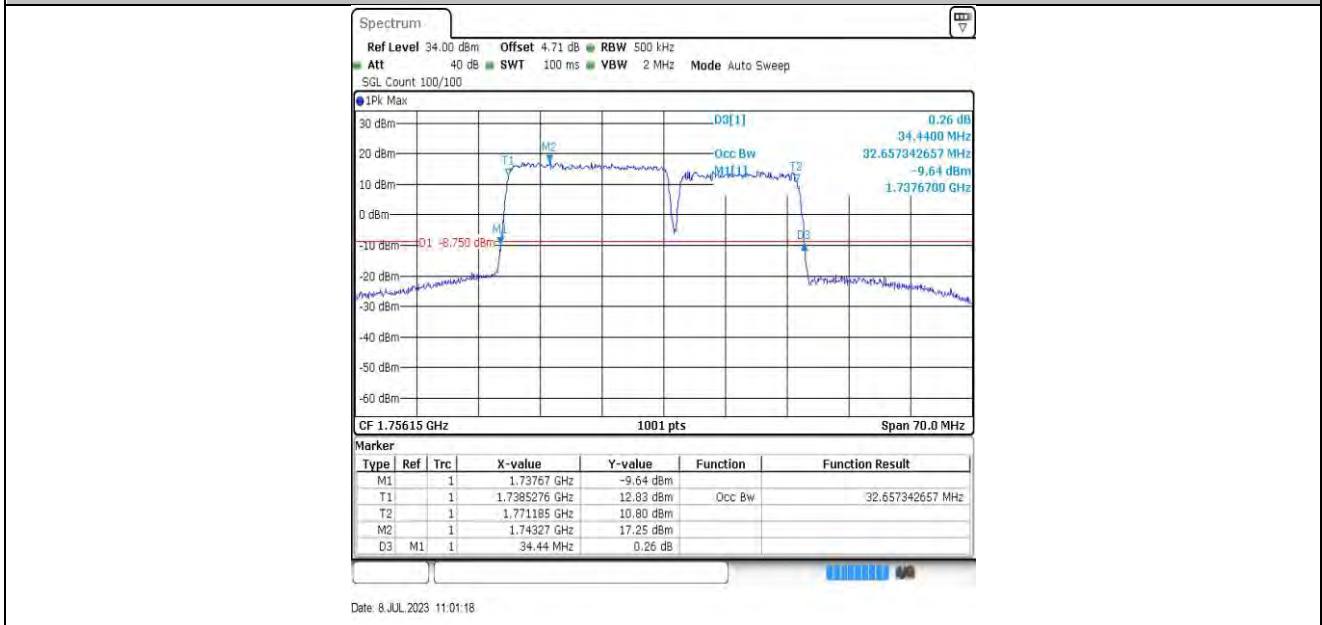
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### 20MHz-15MHz-132072-132243 QPSK-QPSK



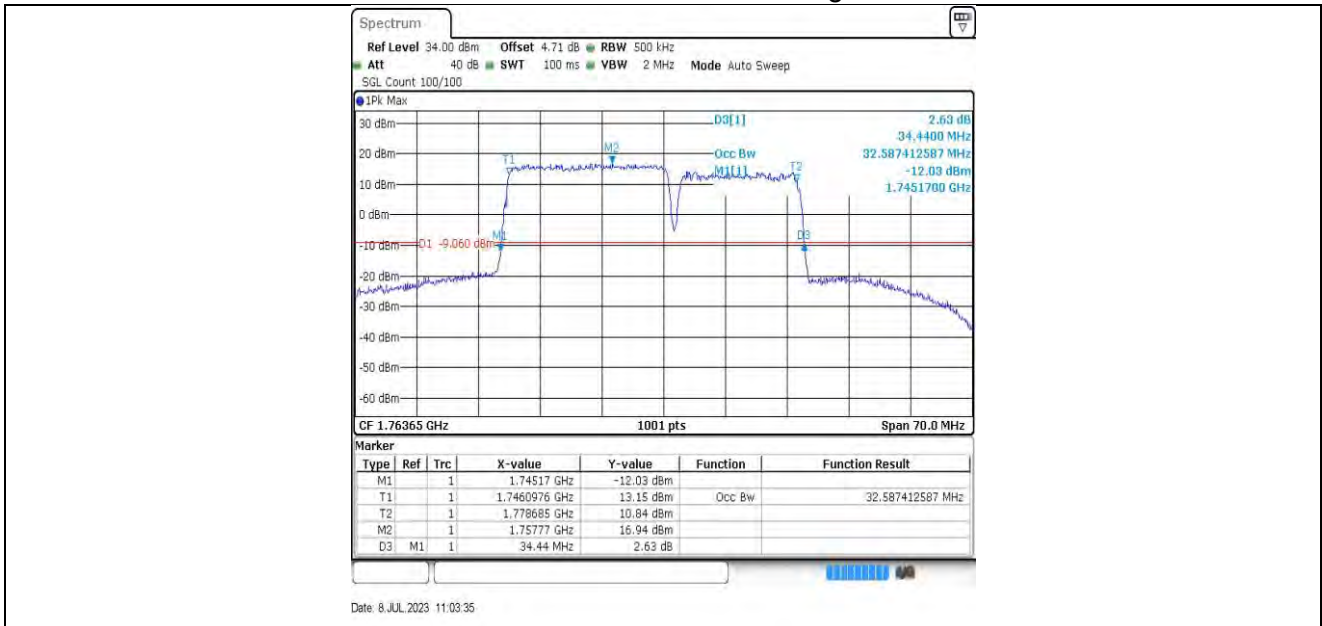
### 20MHz-15MHz-132348-132519 QPSK-QPSK



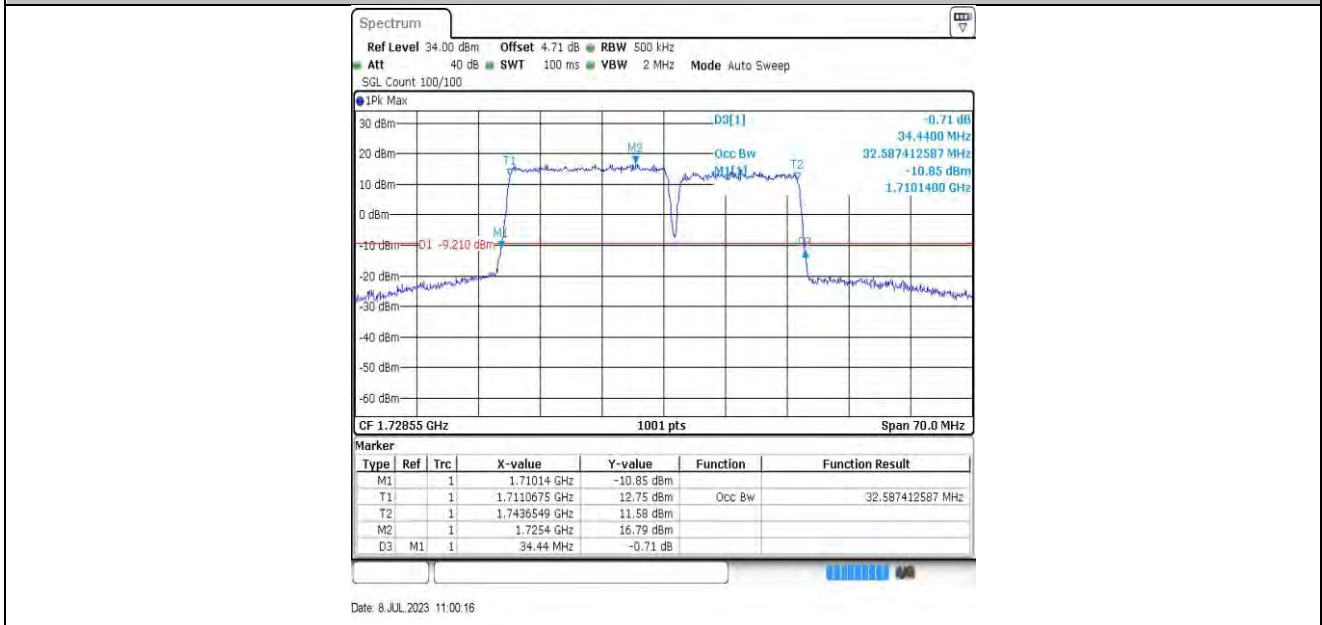
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**20MHz-15MHz-132423-132594 QPSK-QPSK**



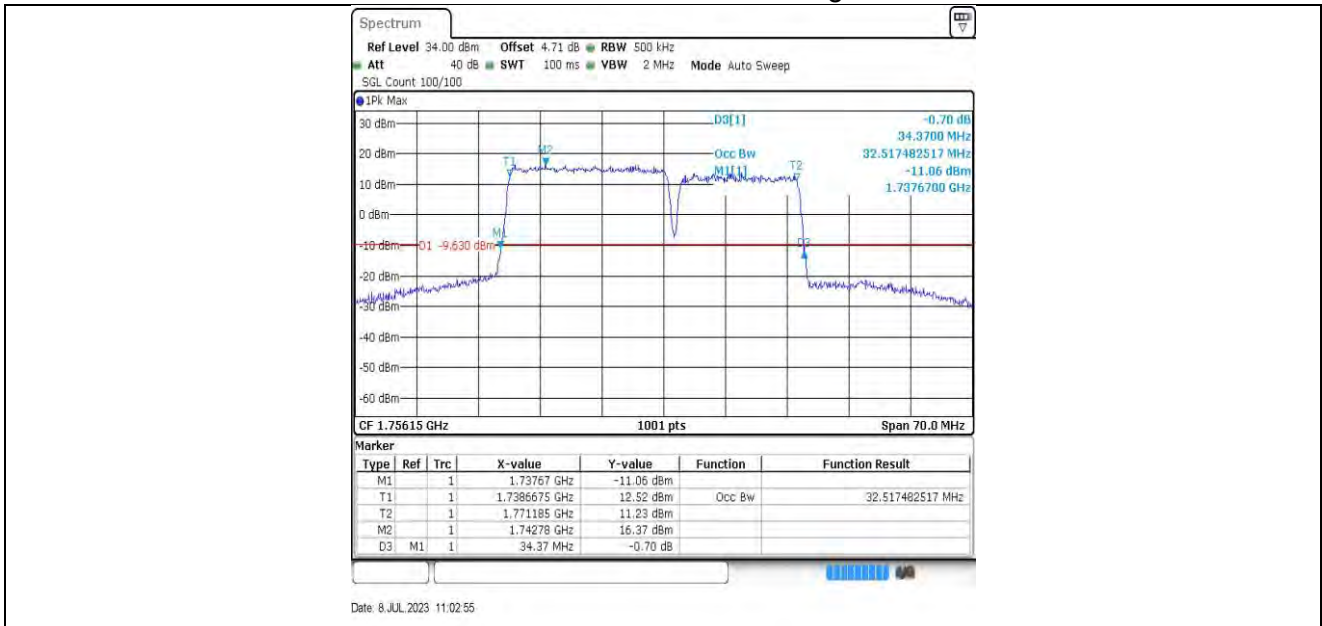
**20MHz-15MHz-132072-132243 16QAM-16QAM**



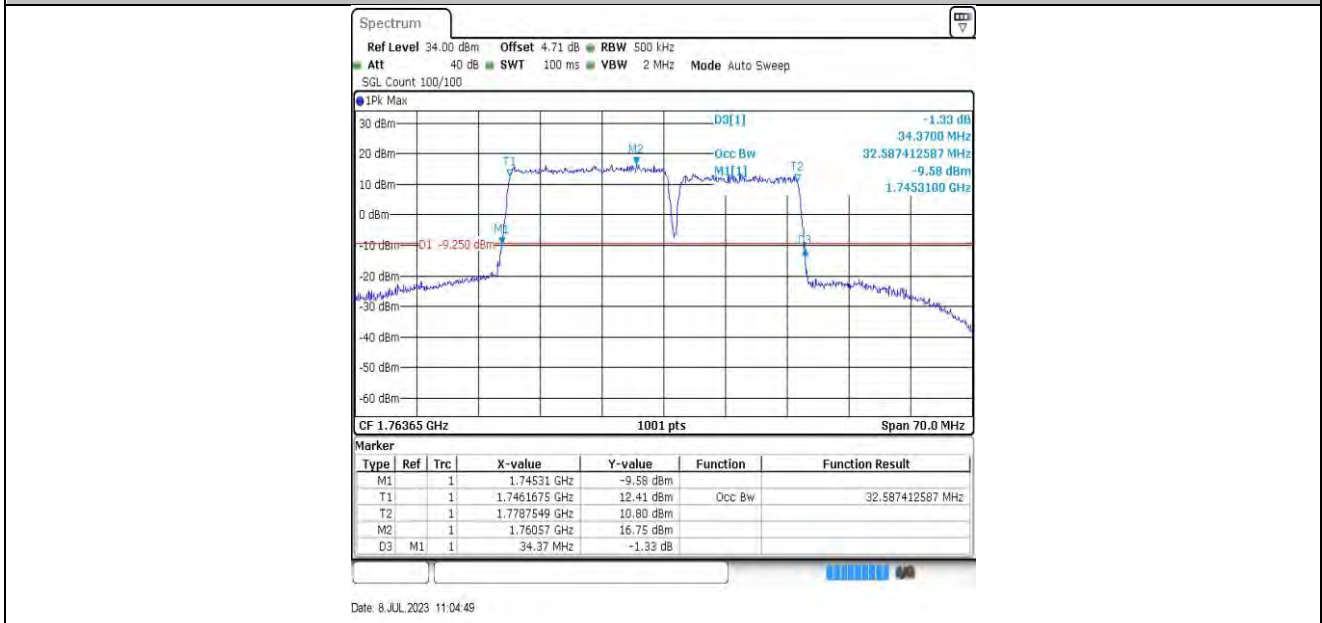
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### 20MHz-15MHz-132348-132519 16QAM-16QAM



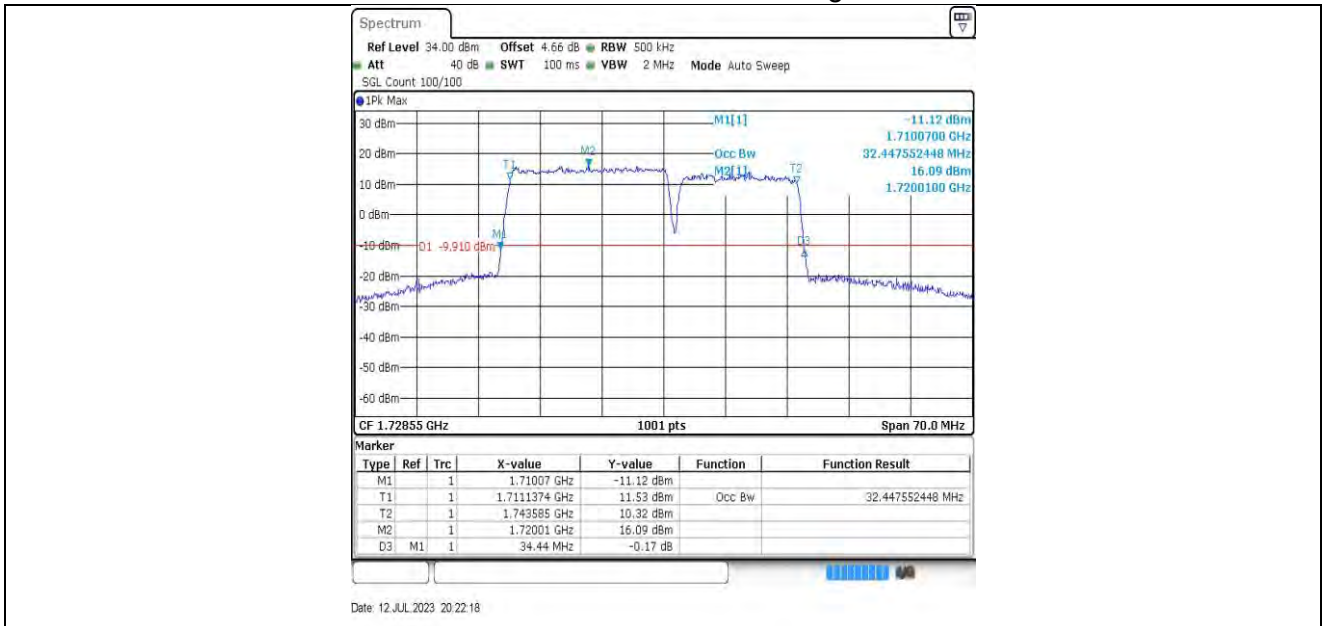
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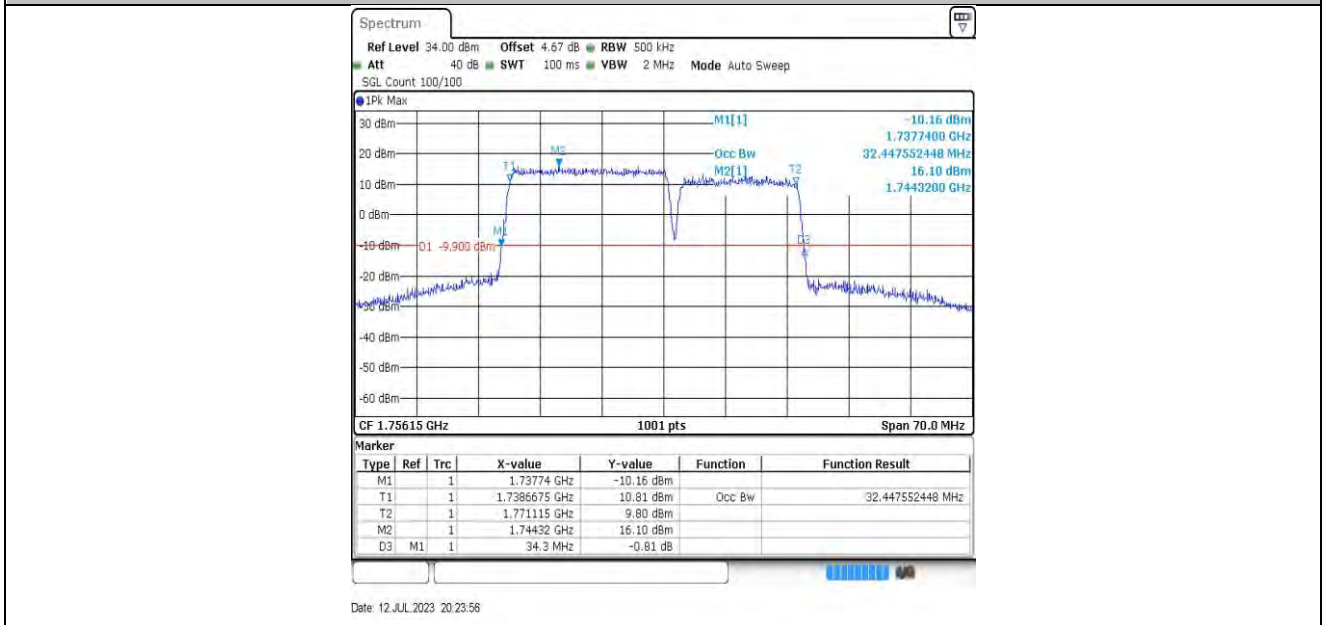
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### 20MHz-15MHz-132072-132243 64QAM-64QAM



### 20MHz-15MHz-132348-132519 64QAM-64QAM

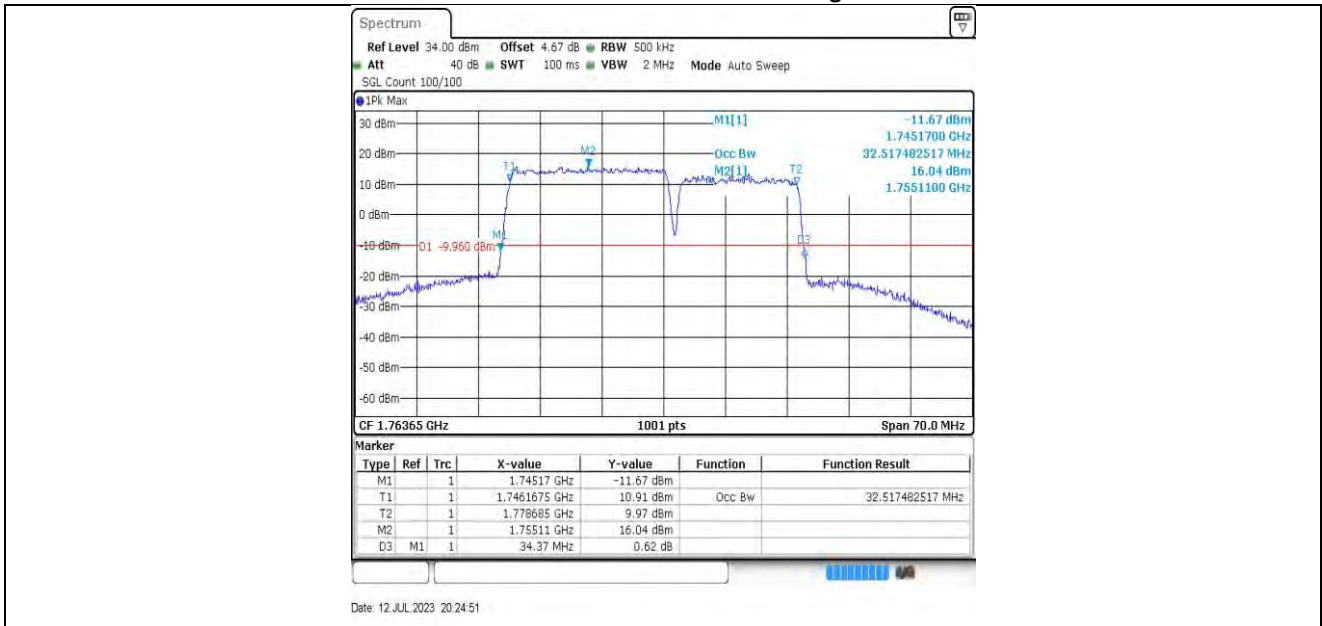


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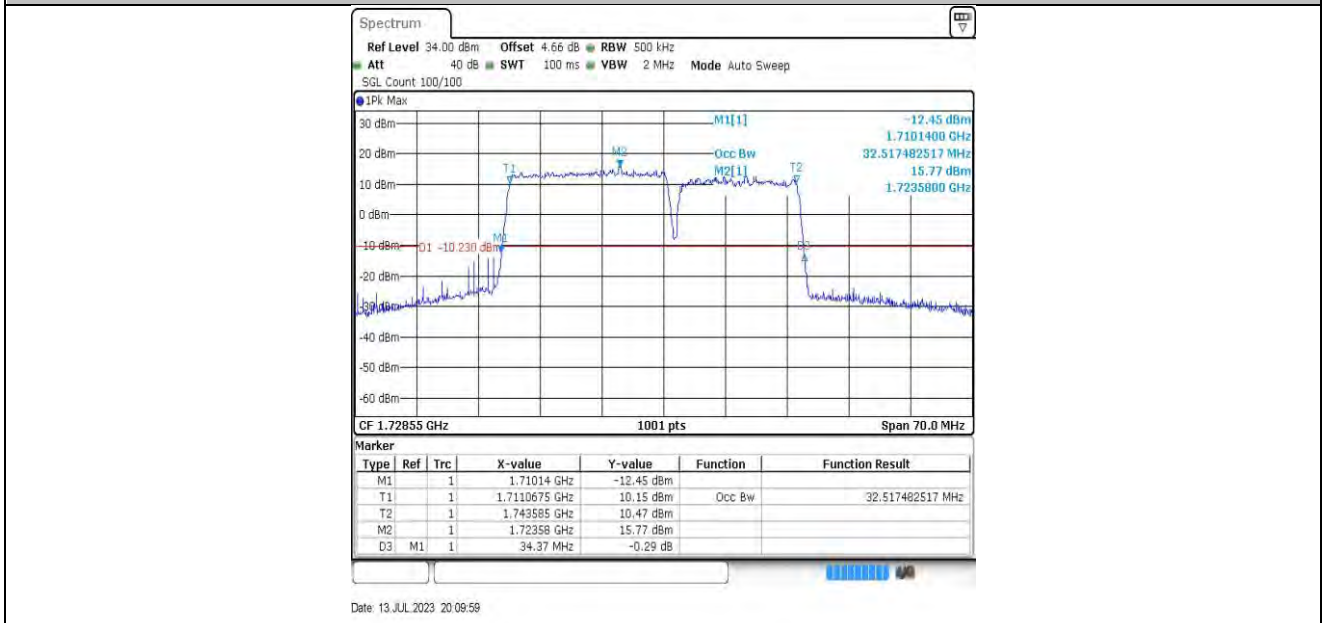
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### 20MHz-15MHz-132423-132594 64QAM-64QAM



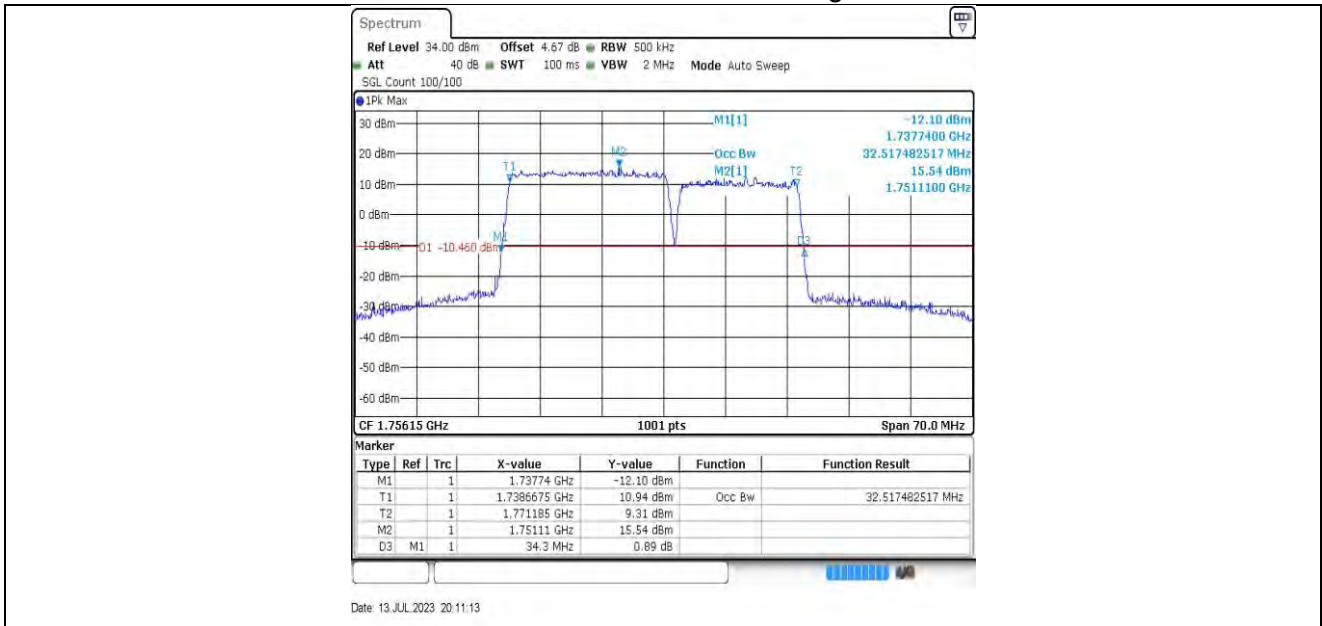
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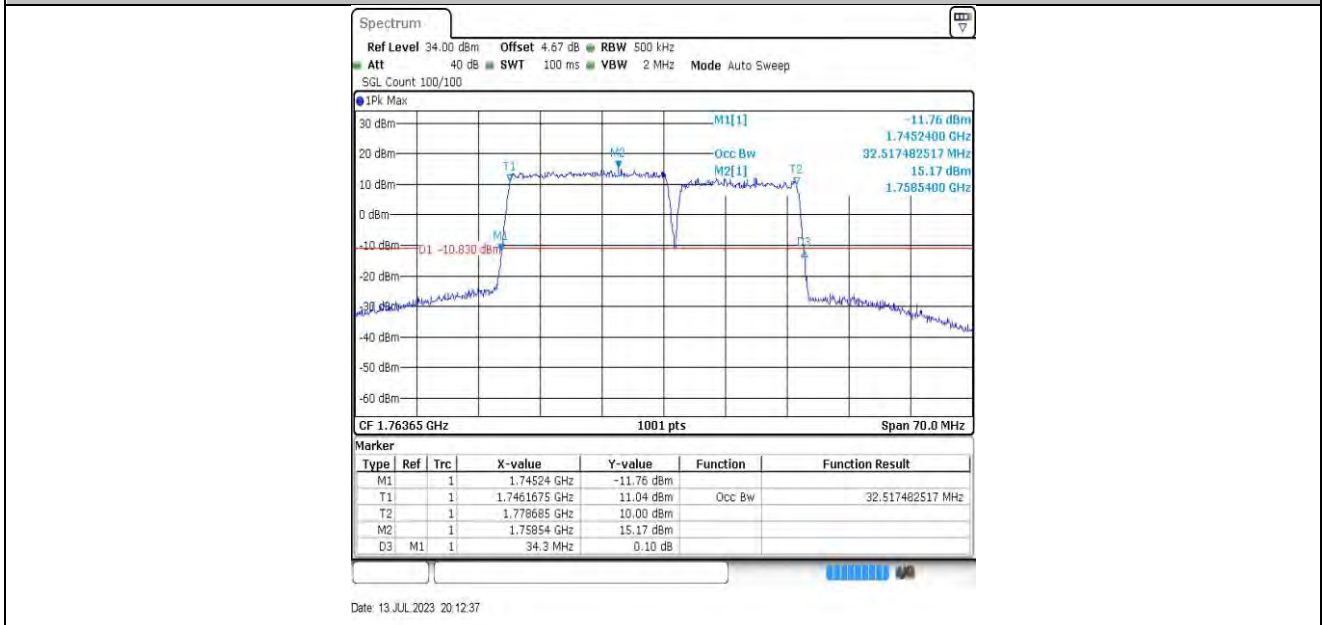
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### 20MHz-15MHz-132348-132519 256QAM-256QAM



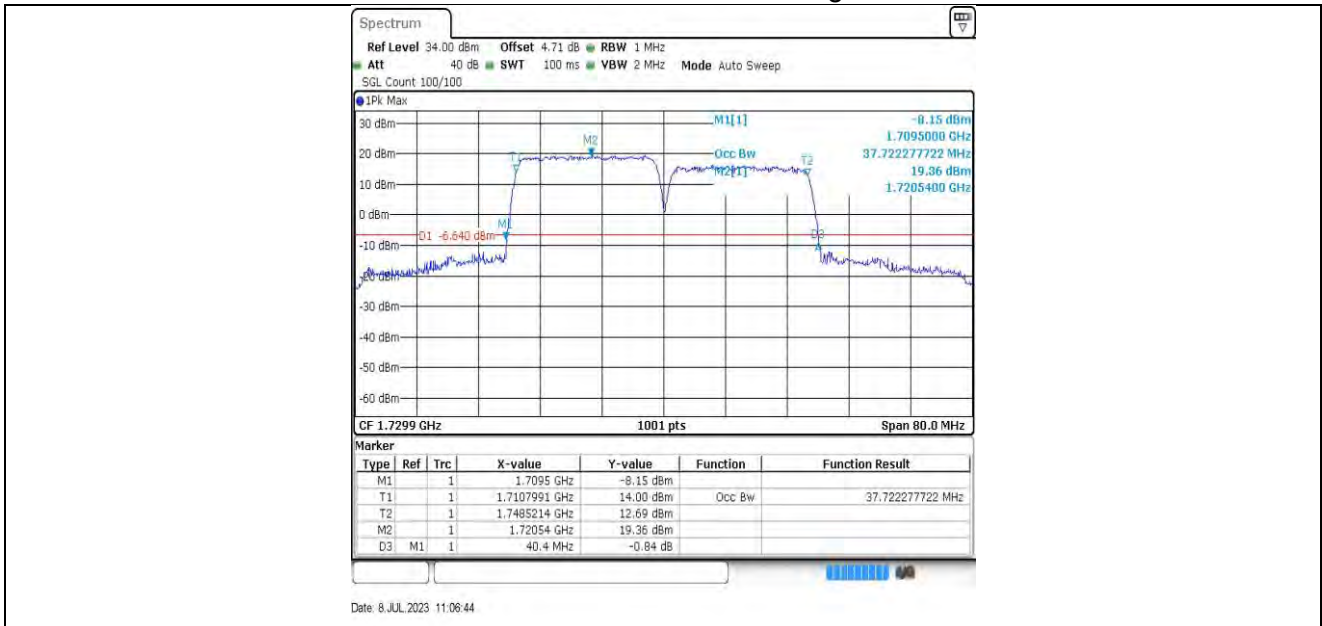
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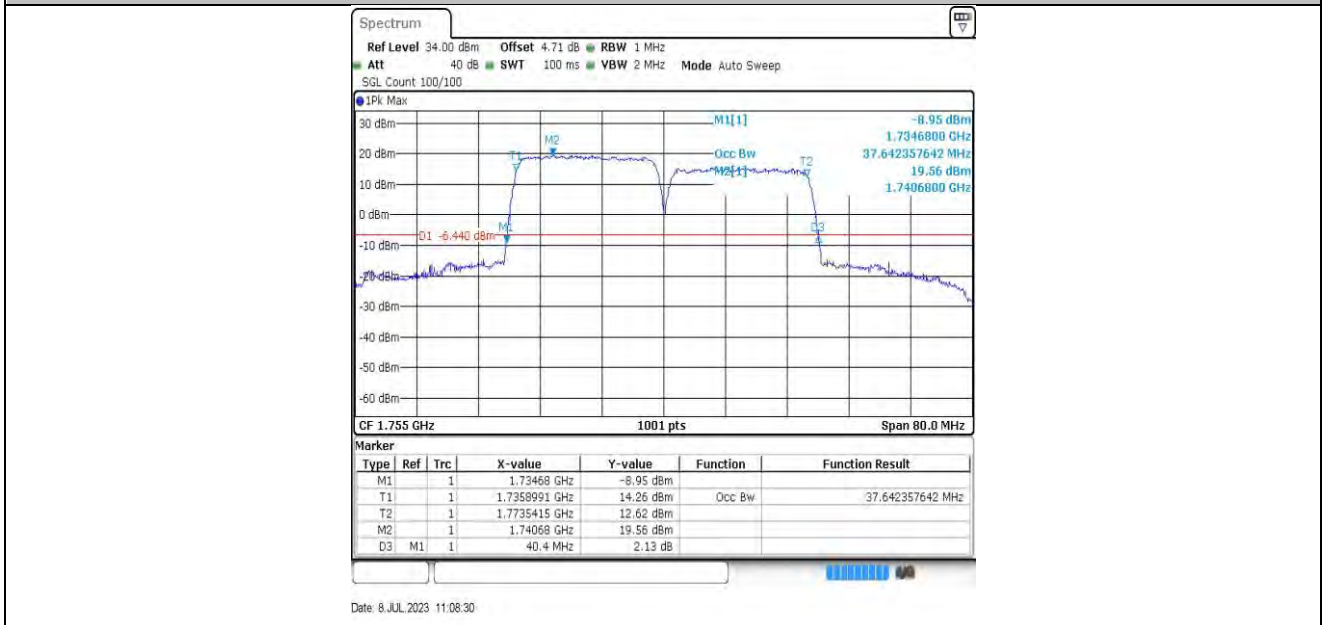
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### 20MHz-20MHz-132072-132270 QPSK-QPSK



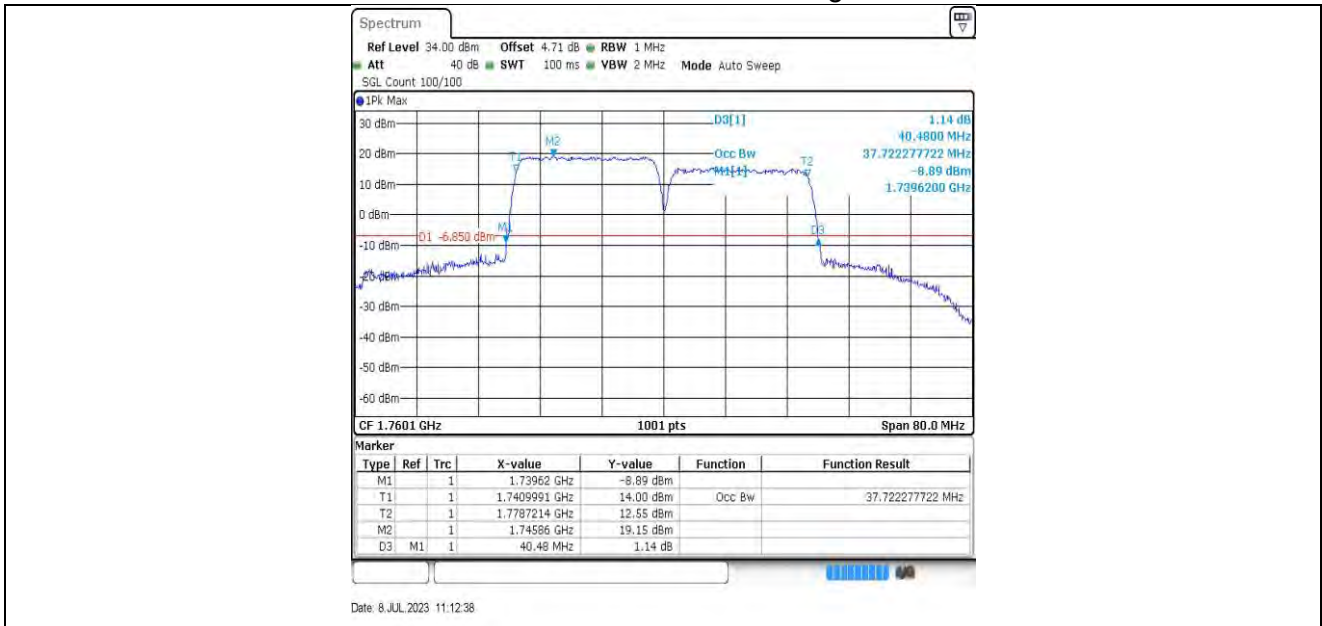
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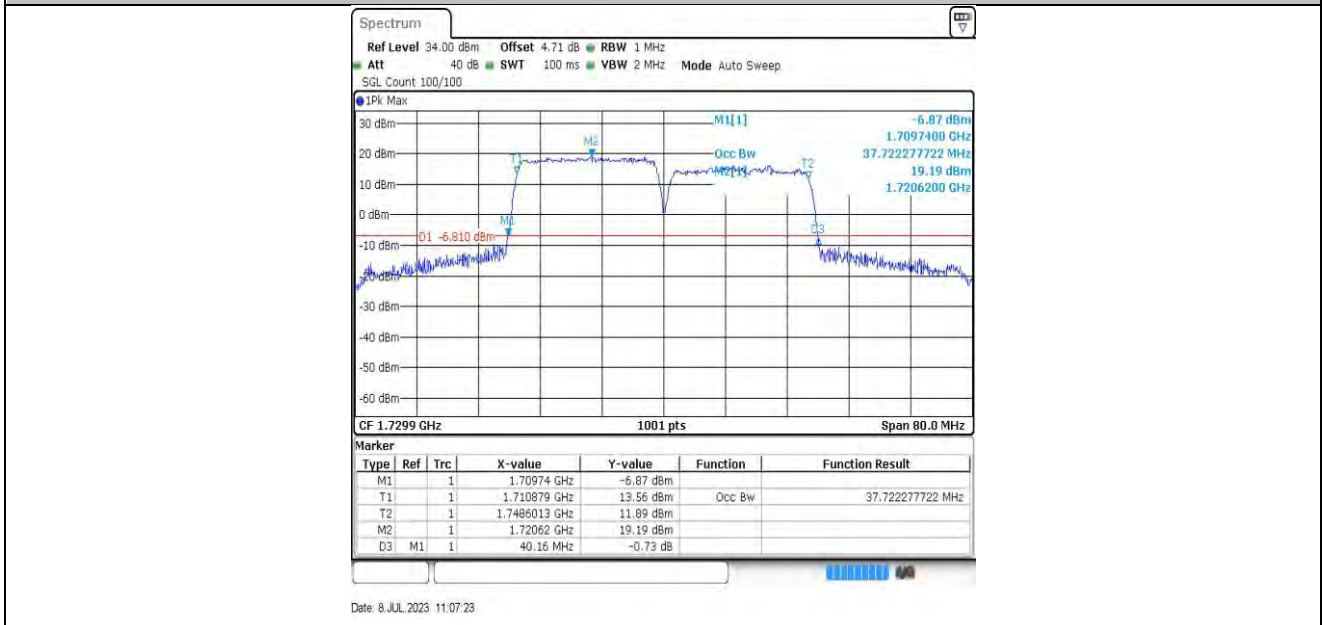
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### 20MHz-20MHz-132374-132572 QPSK-QPSK



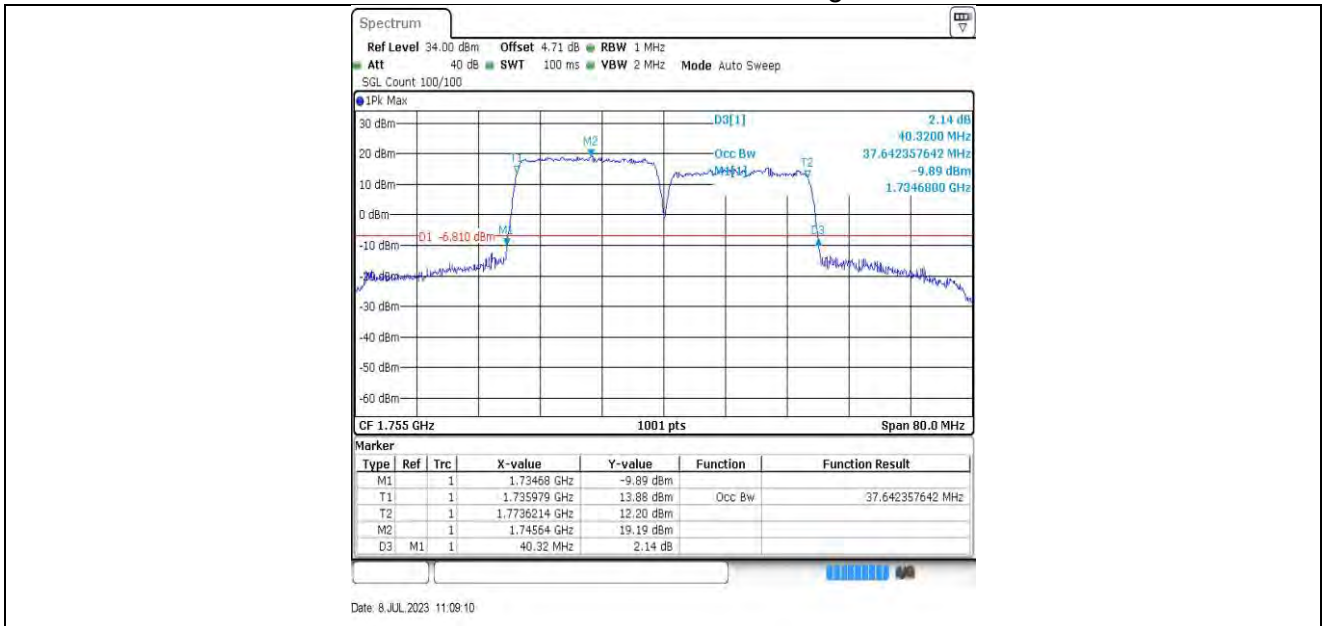
### 20MHz-20MHz-132072-132270 16QAM-16QAM



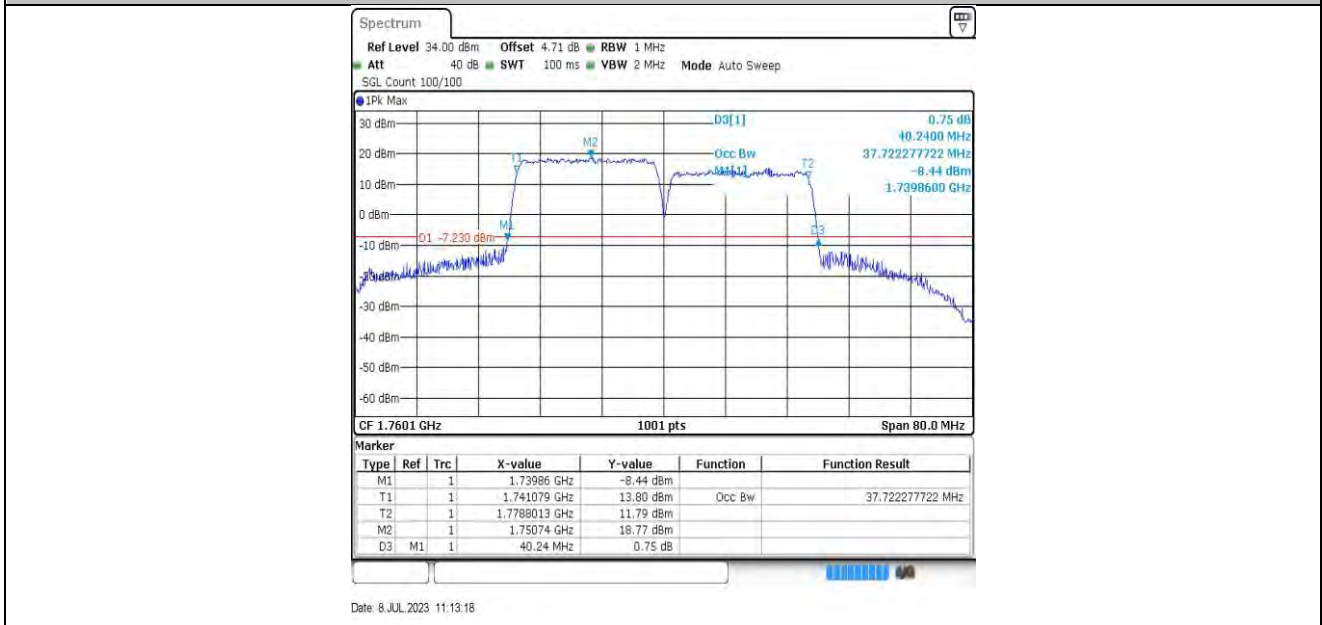
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### 20MHz-20MHz-132323-132521 16QAM-16QAM



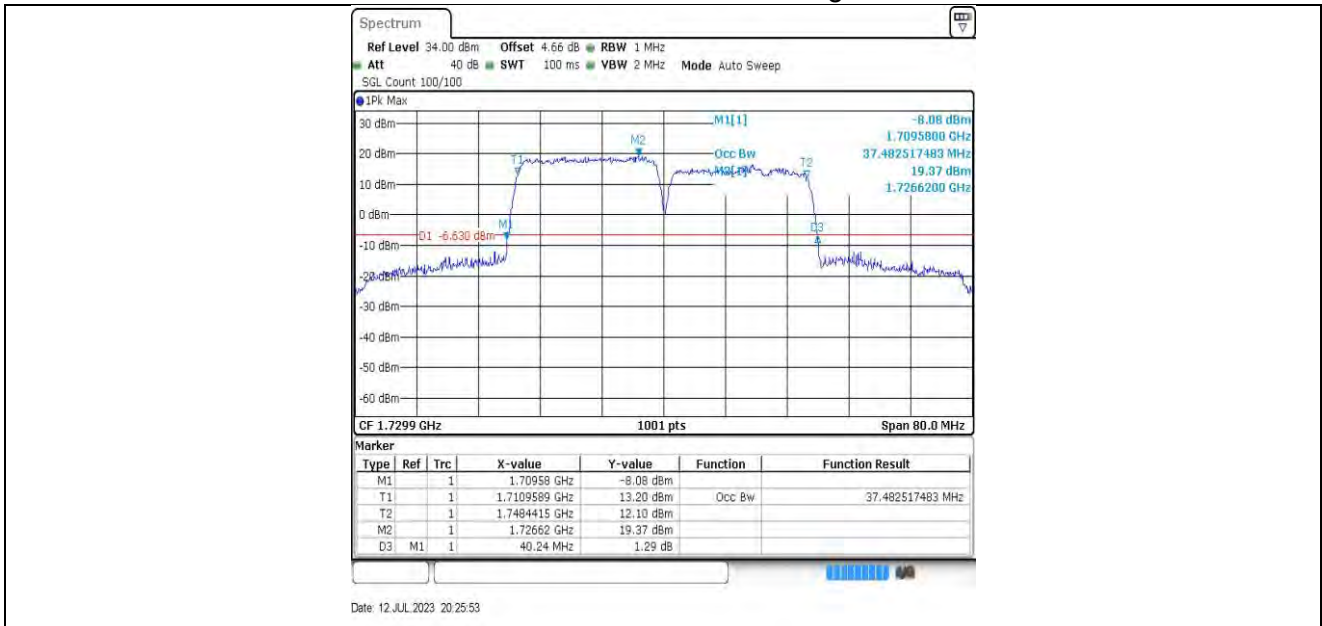
### 20MHz-20MHz-132374-132572 16QAM-16QAM



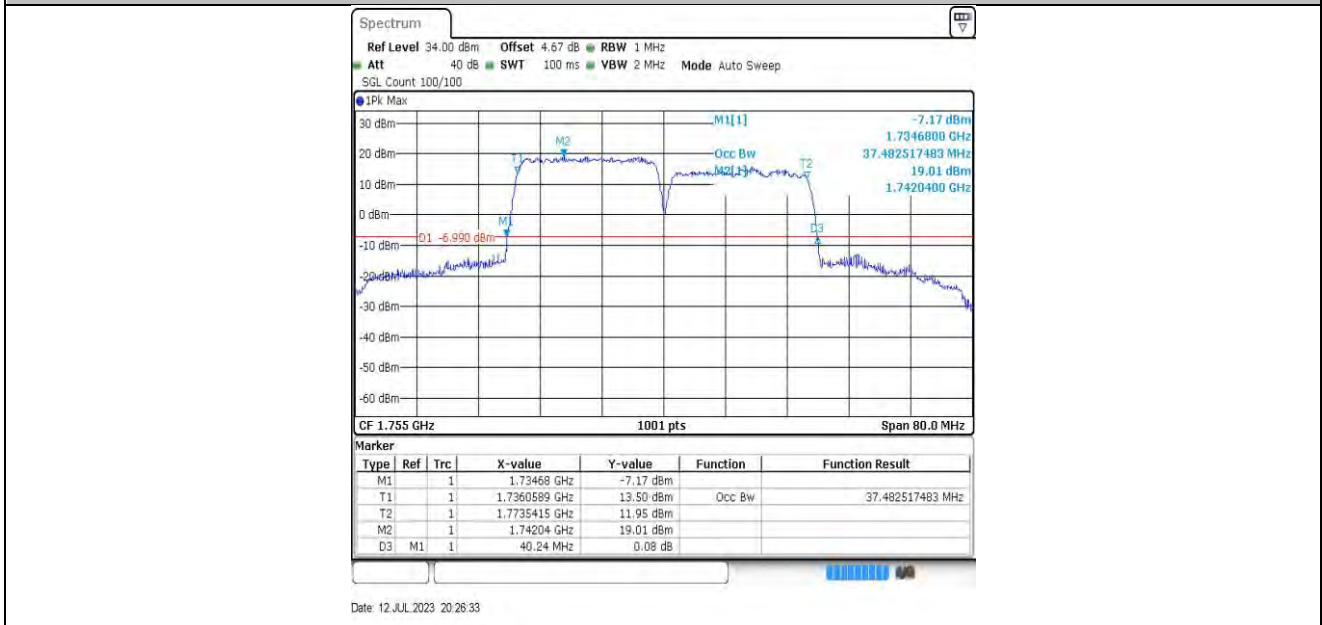
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### 20MHz-20MHz-132072-132270 64QAM-64QAM



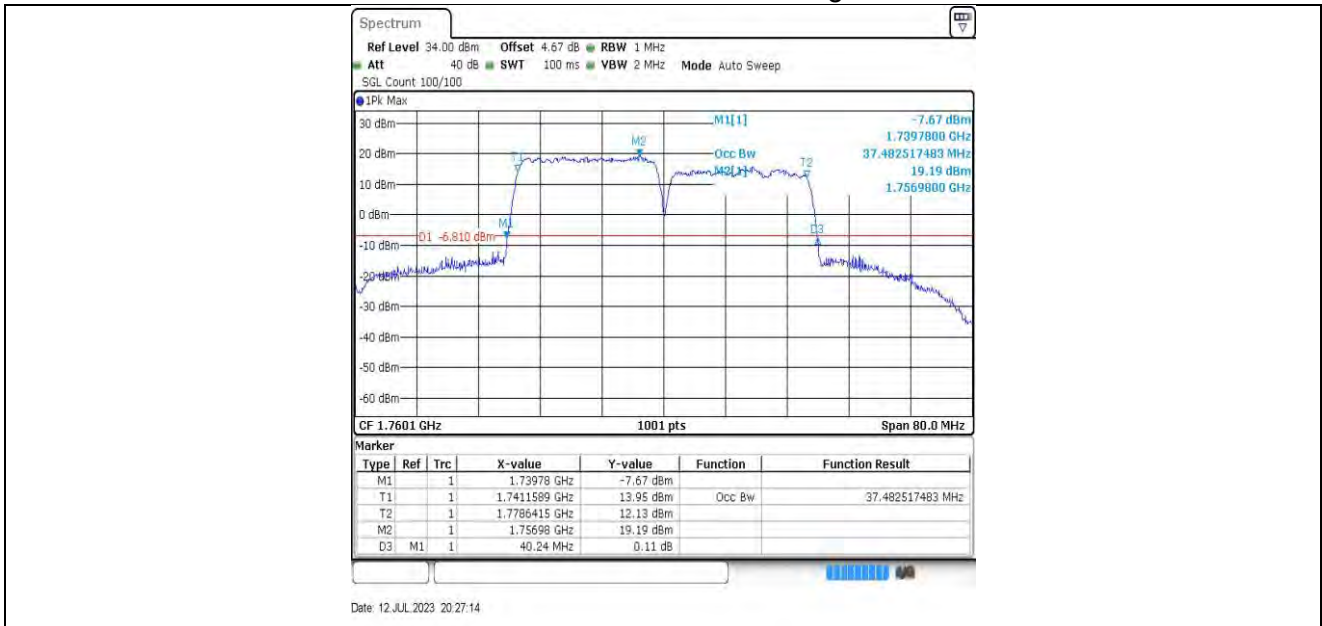
### 20MHz-20MHz-132323-132521 64QAM-64QAM



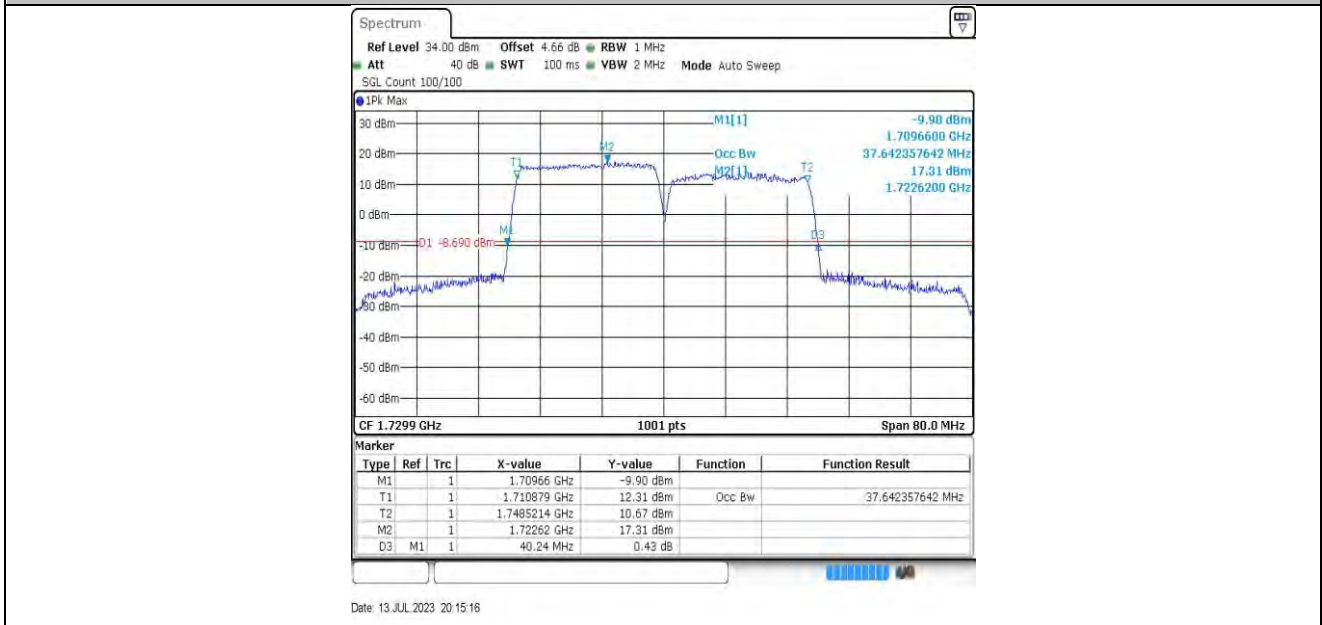
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### 20MHz-20MHz-132374-132572 64QAM-64QAM



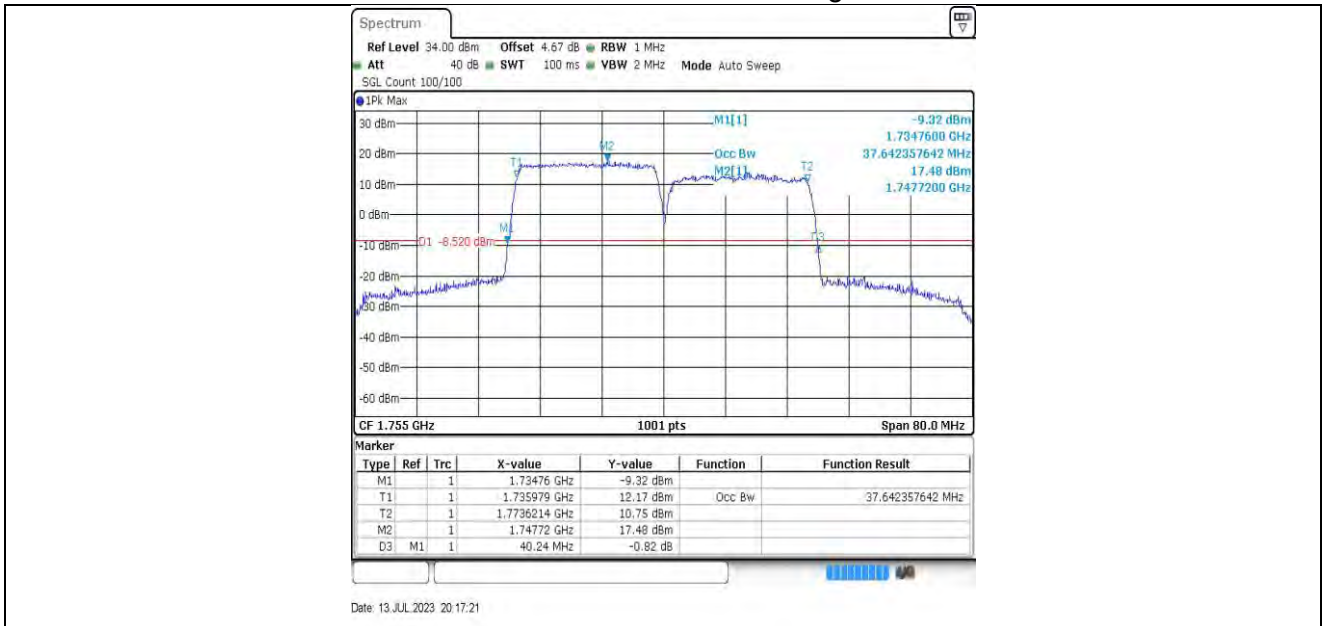
### 20MHz-20MHz-132072-132270 256QAM-256QAM



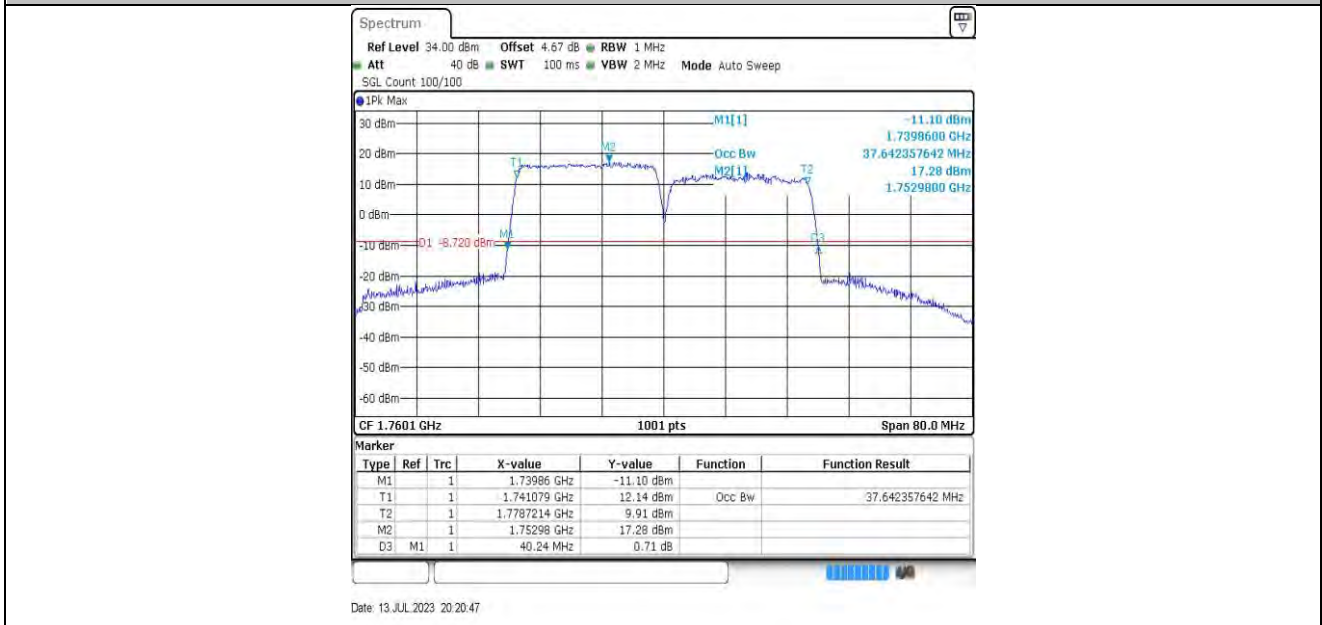
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### 20MHz-20MHz-132323-132521 256QAM-256QAM



### 20MHz-20MHz-132374-132572 256QAM-256QAM

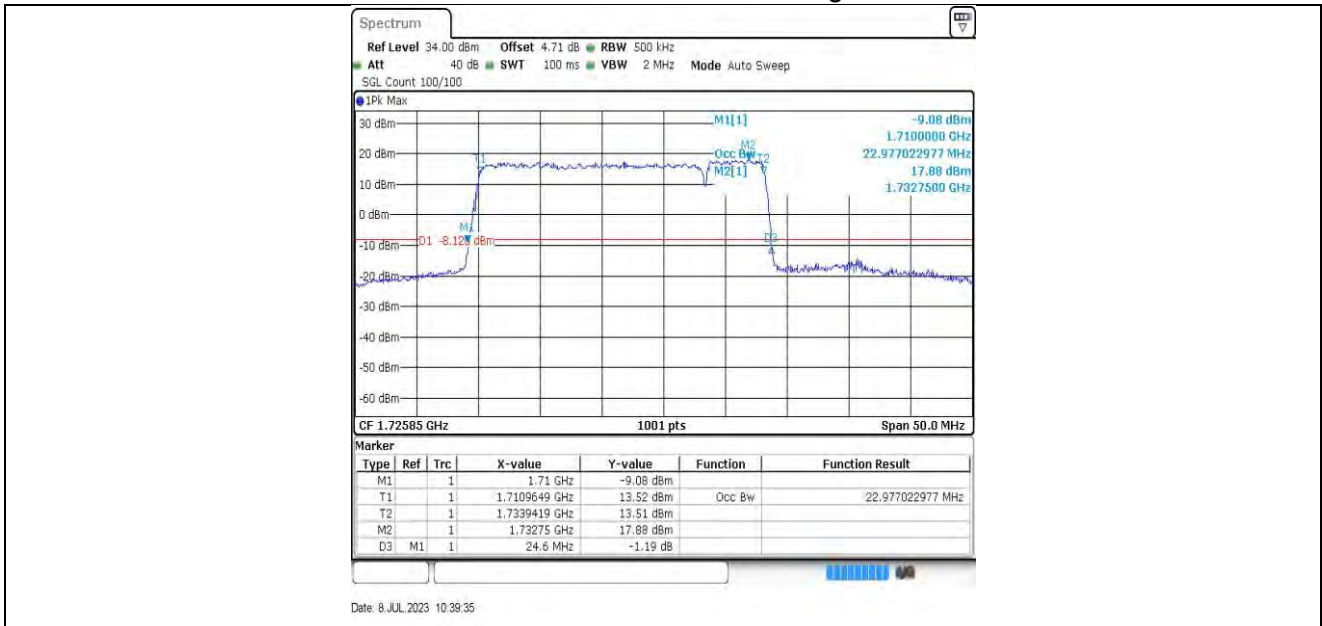


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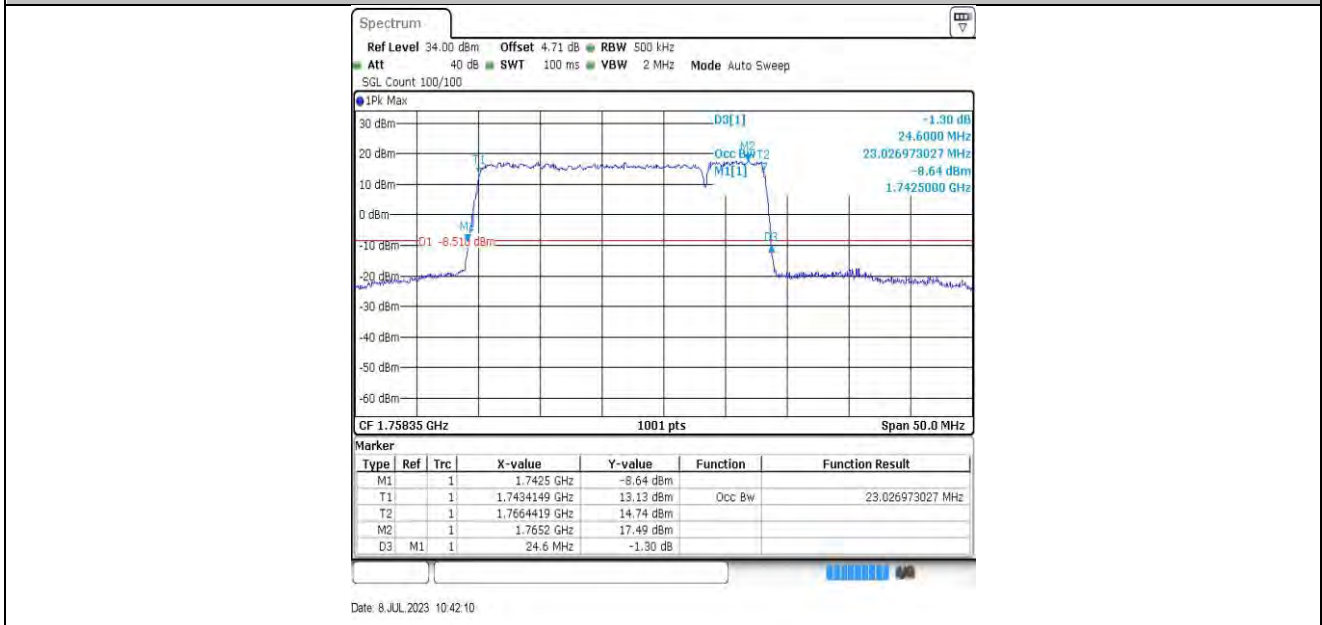
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### 20MHz-5MHz-132072-132189 QPSK-QPSK



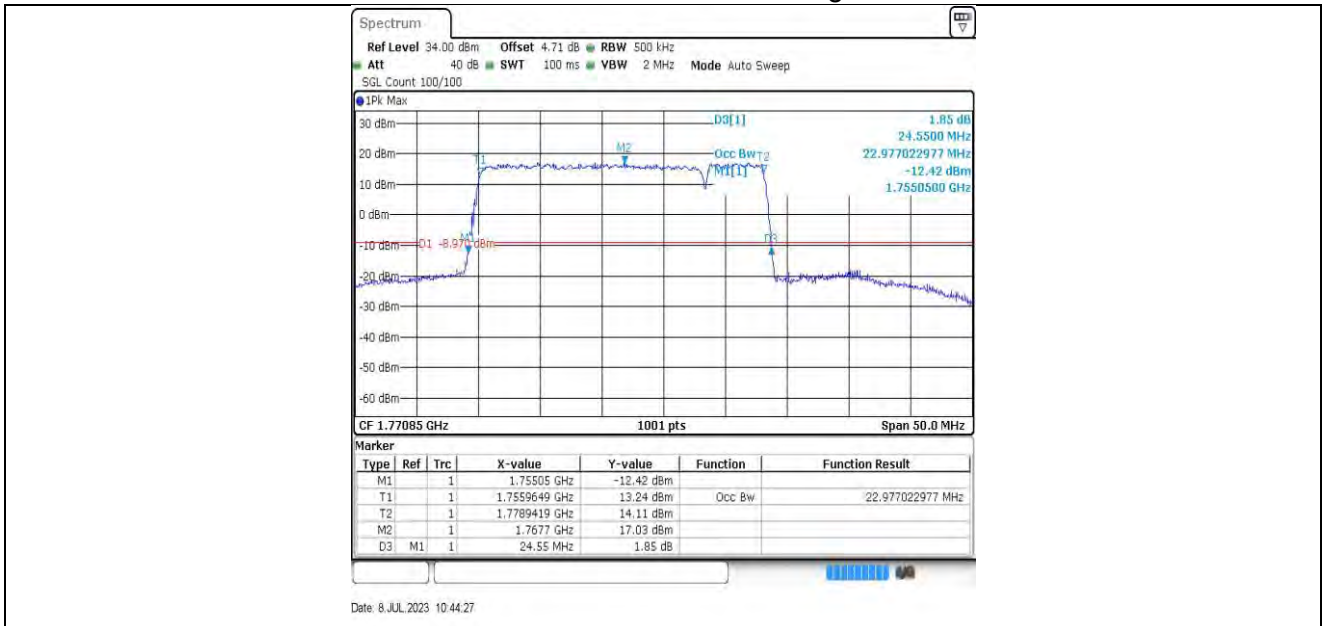
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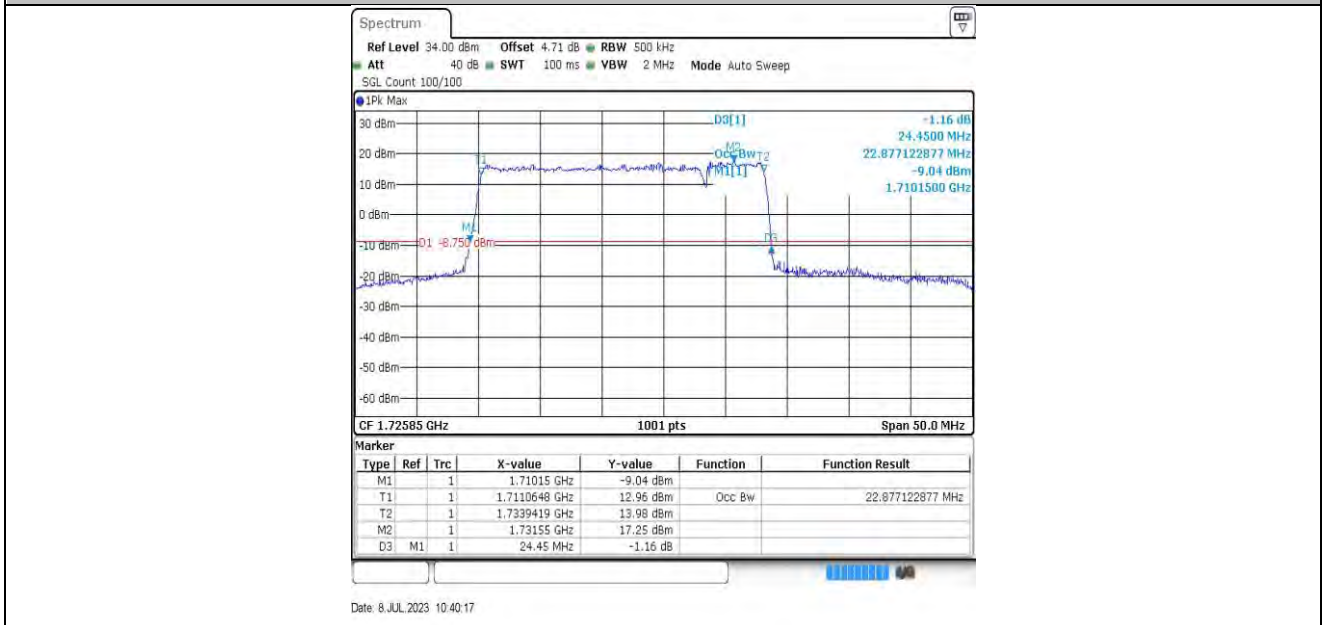
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### 20MHz-5MHz-132522-132639 QPSK-QPSK



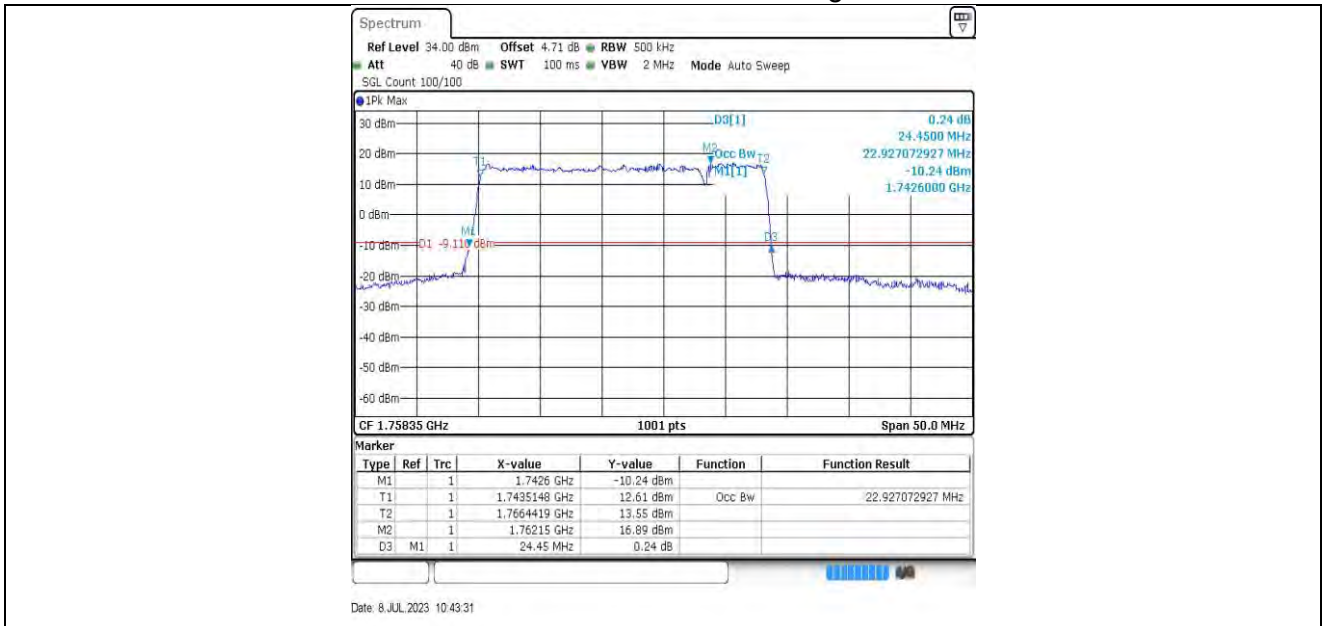
### 20MHz-5MHz-132072-132189 16QAM-16QAM



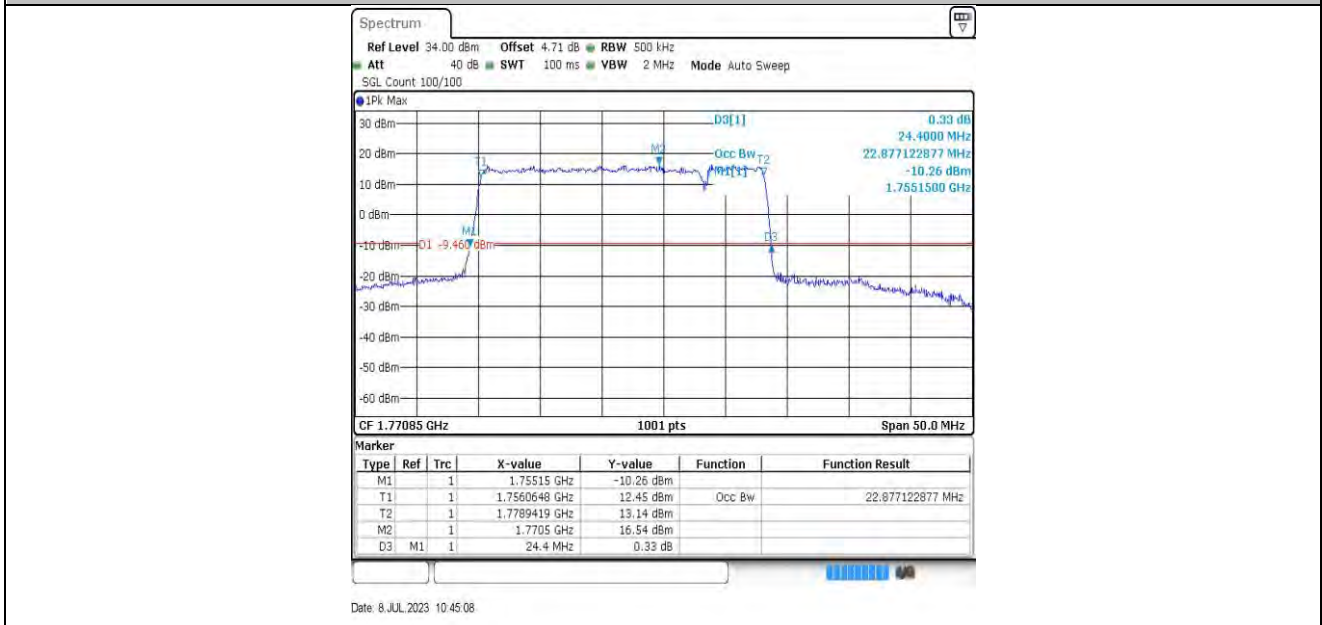
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20MHz-5MHz-132397-132514 16QAM-16QAM

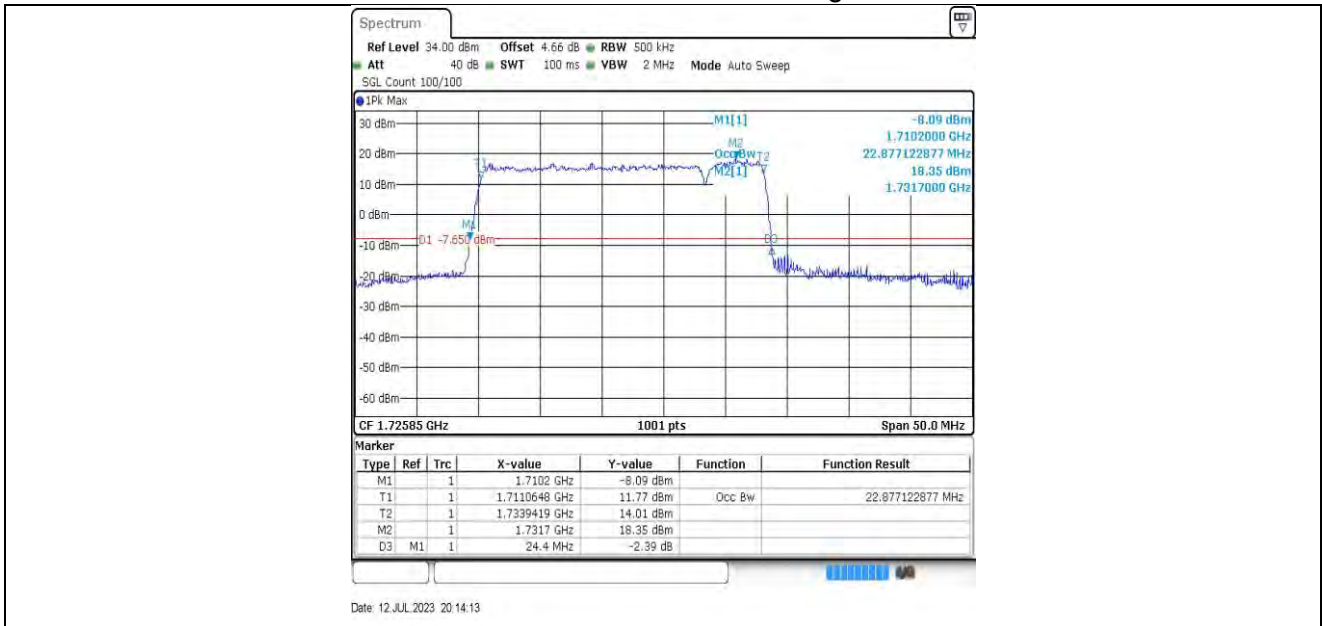


20MHz-5MHz-132522-132639 16QAM-16QAM

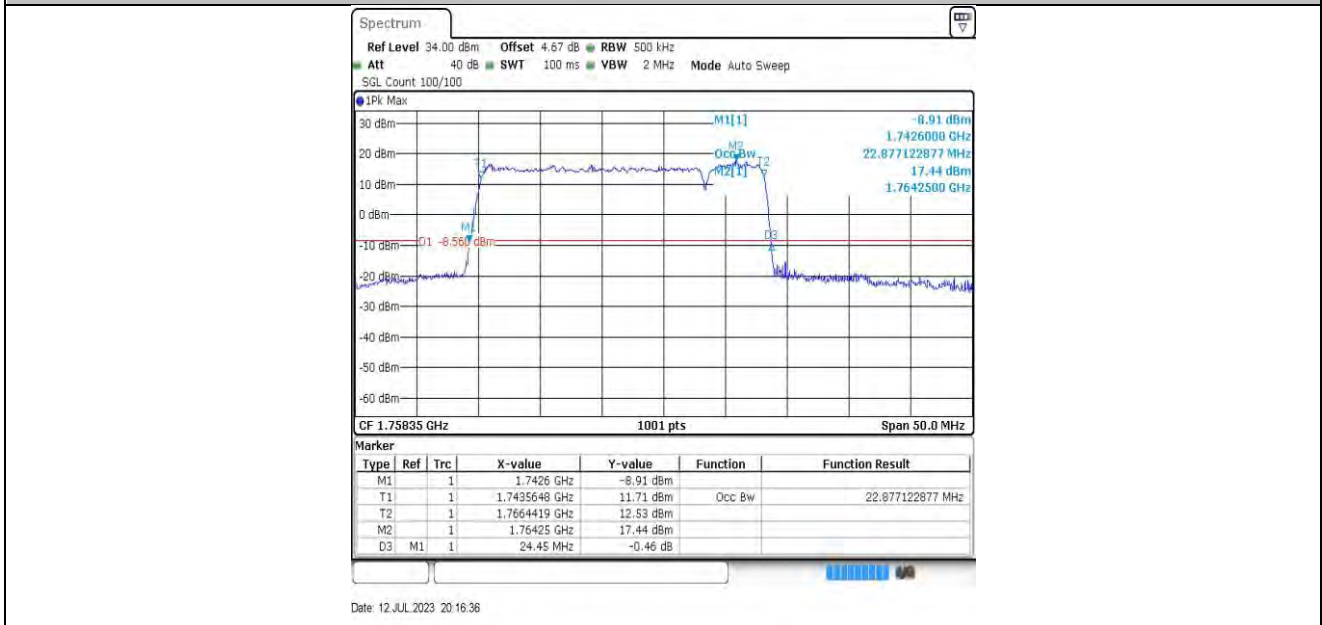


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20MHz-5MHz-132072-132189 64QAM-64QAM



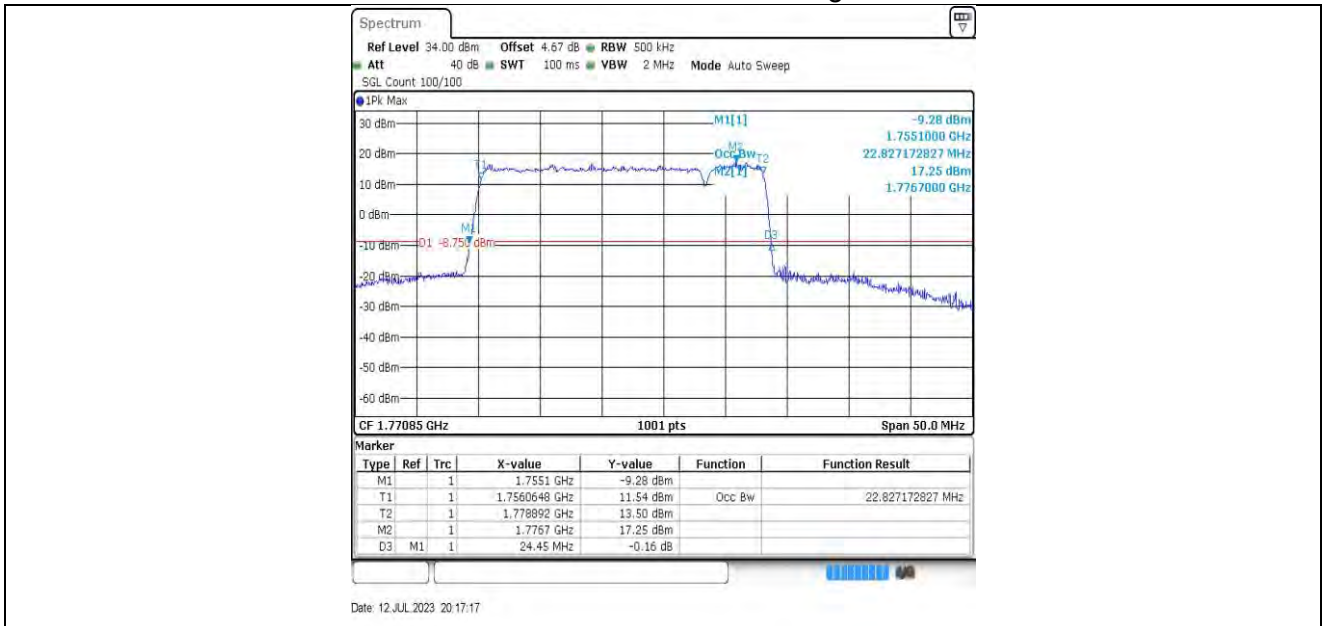
20MHz-5MHz-132397-132514 64QAM-64QAM



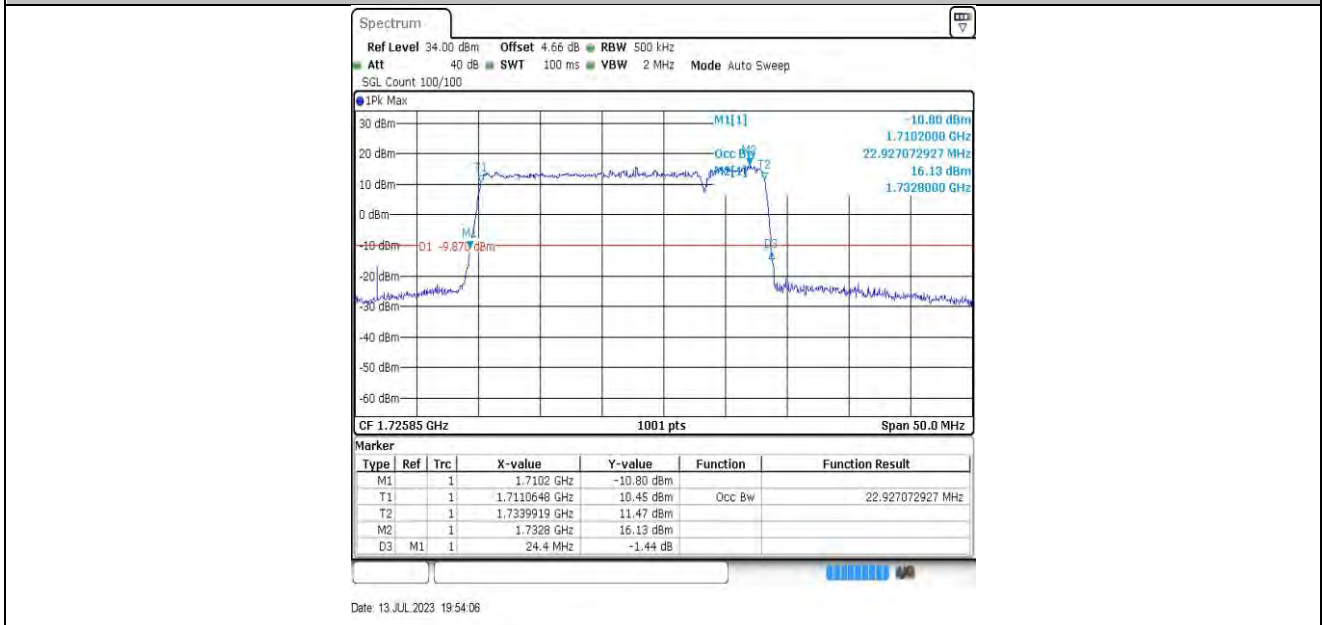
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### 20MHz-5MHz-132522-132639 64QAM-64QAM



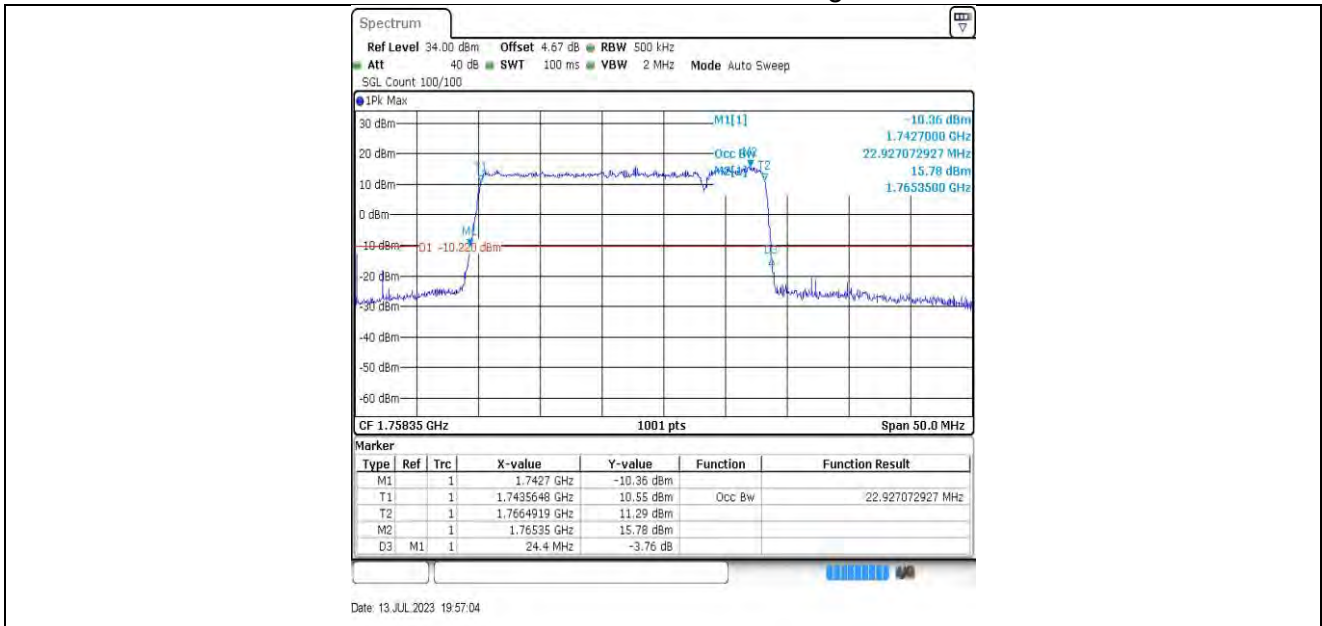
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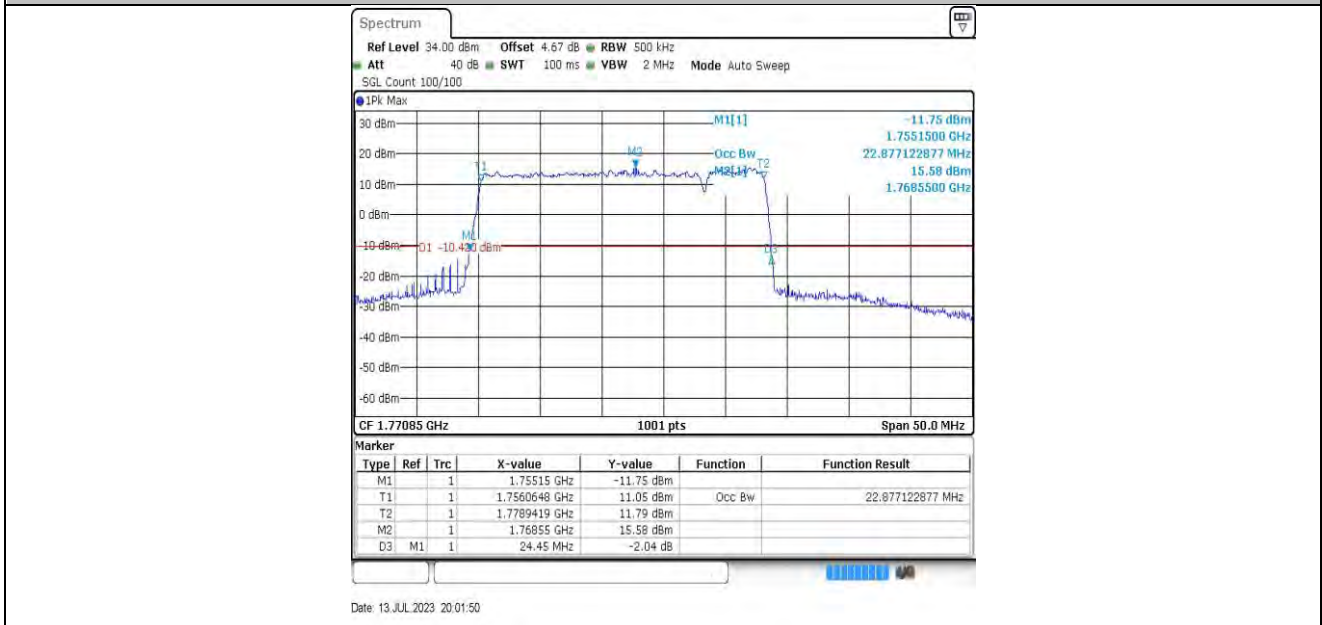
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### 20MHz-5MHz-132397-132514 256QAM-256QAM



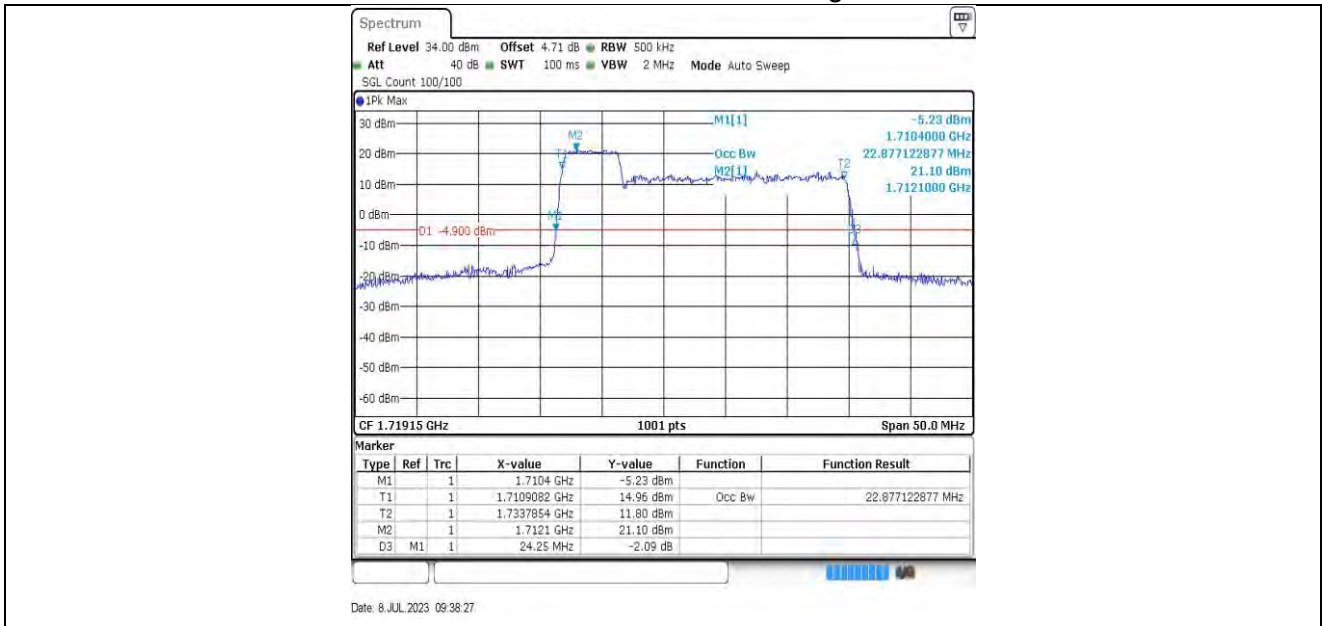
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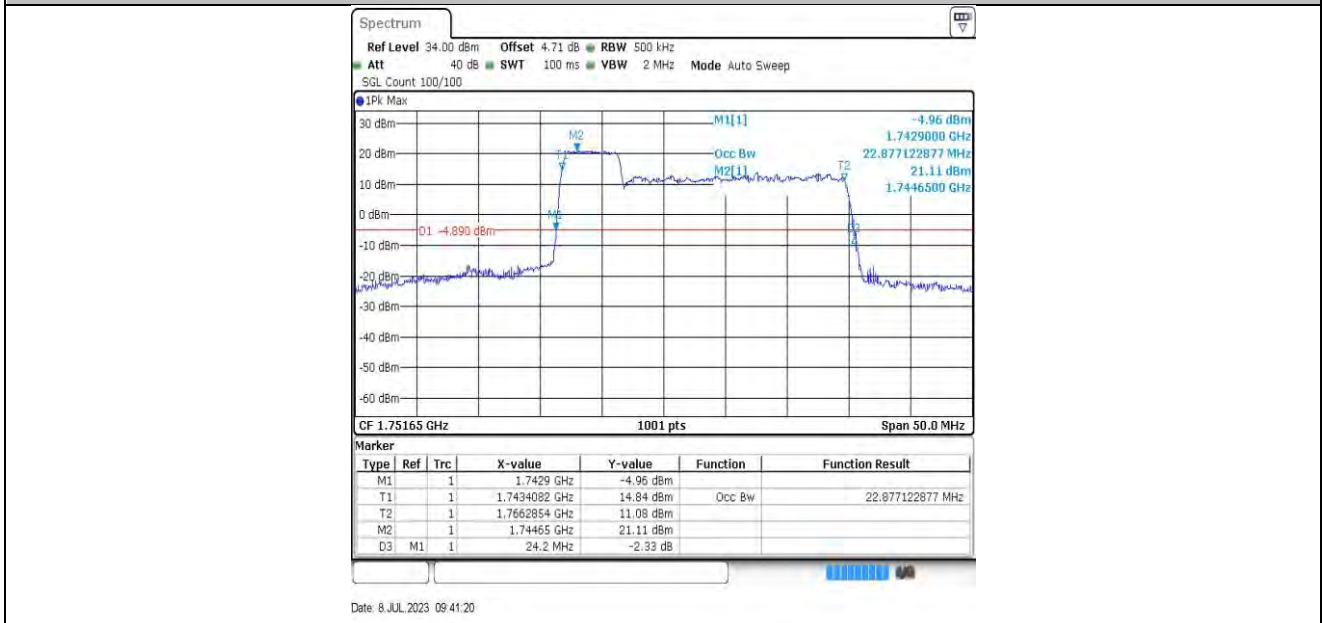
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### 5MHz-20MHz-132005-132122 QPSK-QPSK



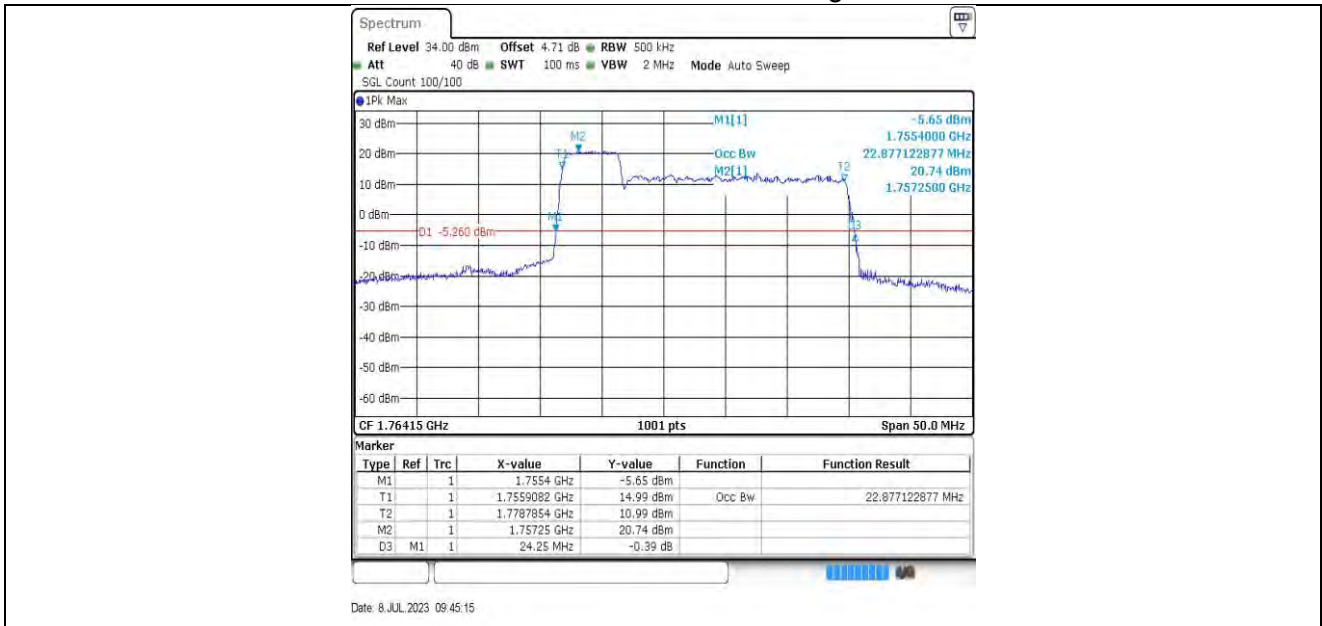
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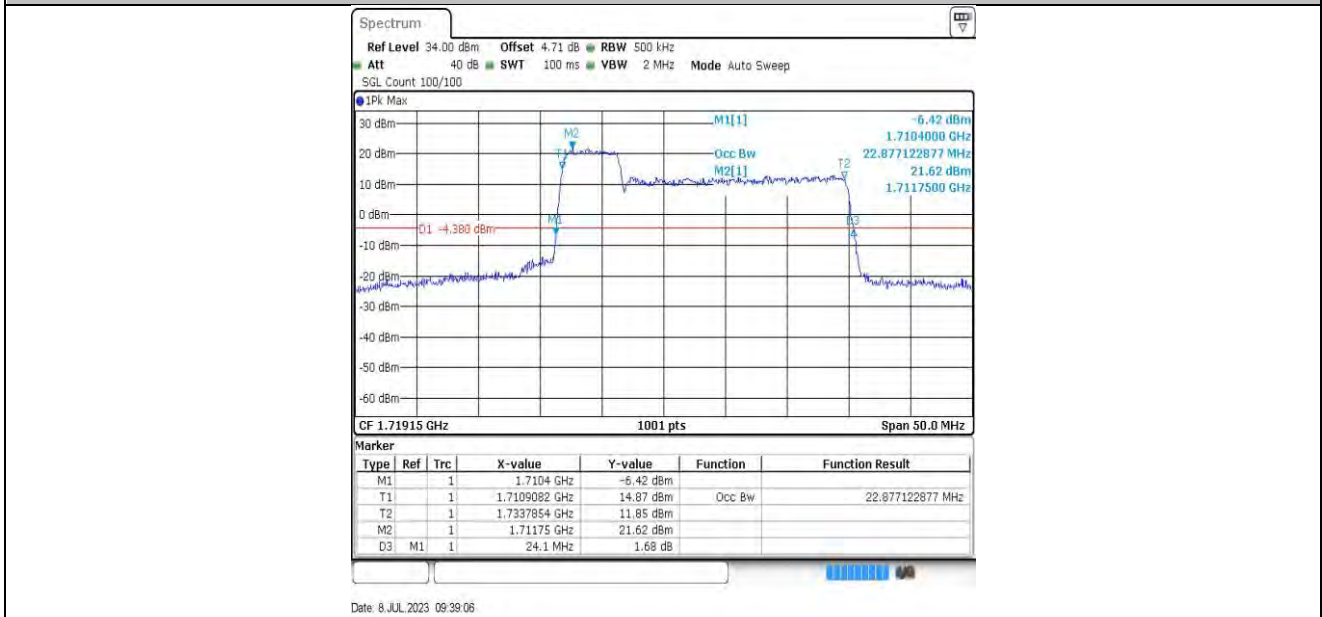
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### 5MHz-20MHz-132455-132572 QPSK-QPSK



### 5MHz-20MHz-132005-132122 16QAM-16QAM

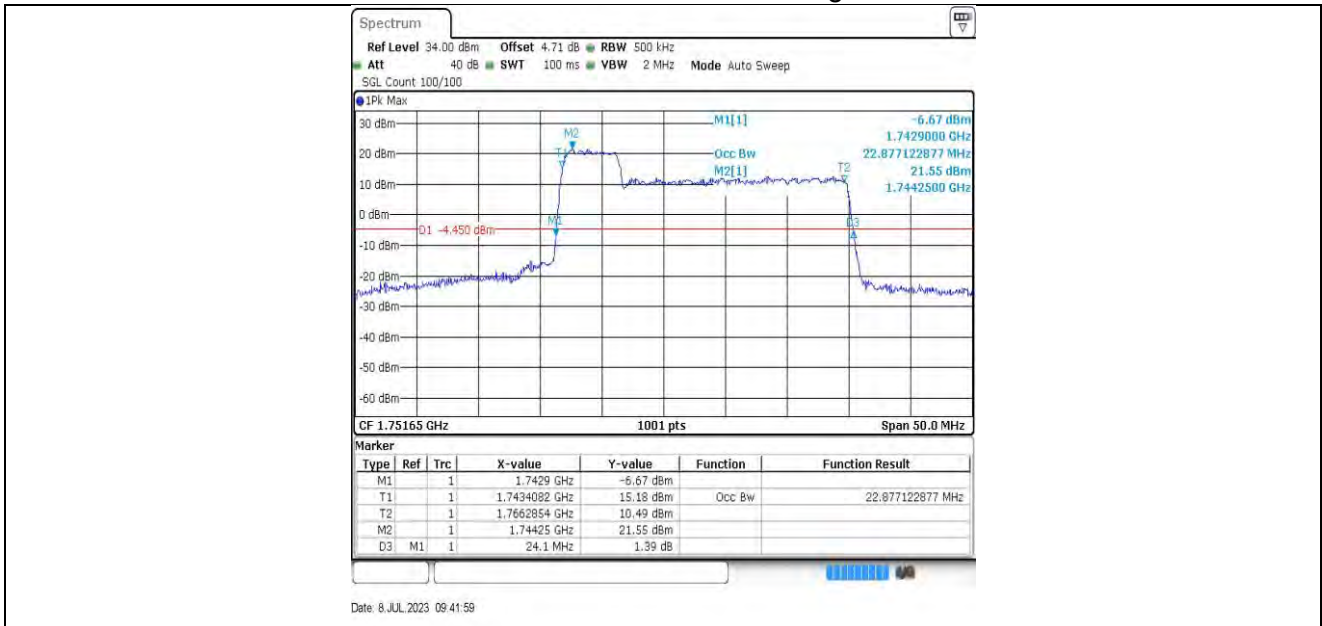


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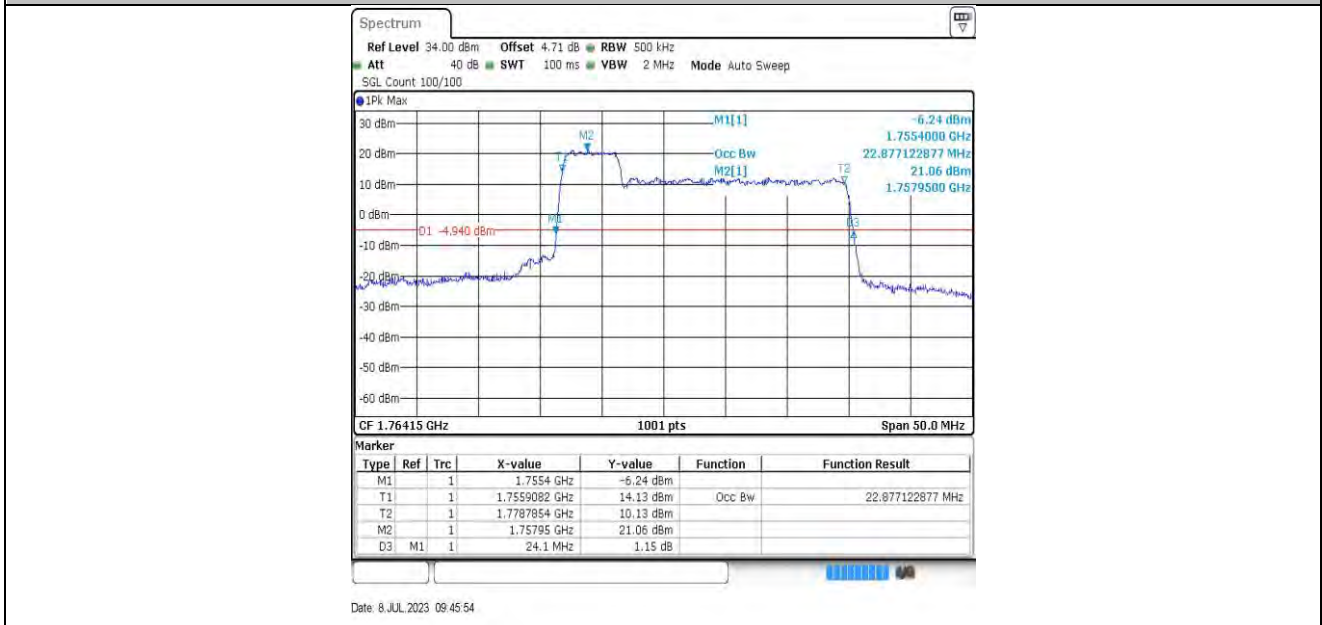
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5MHz-20MHz-132330-132447 16QAM-16QAM



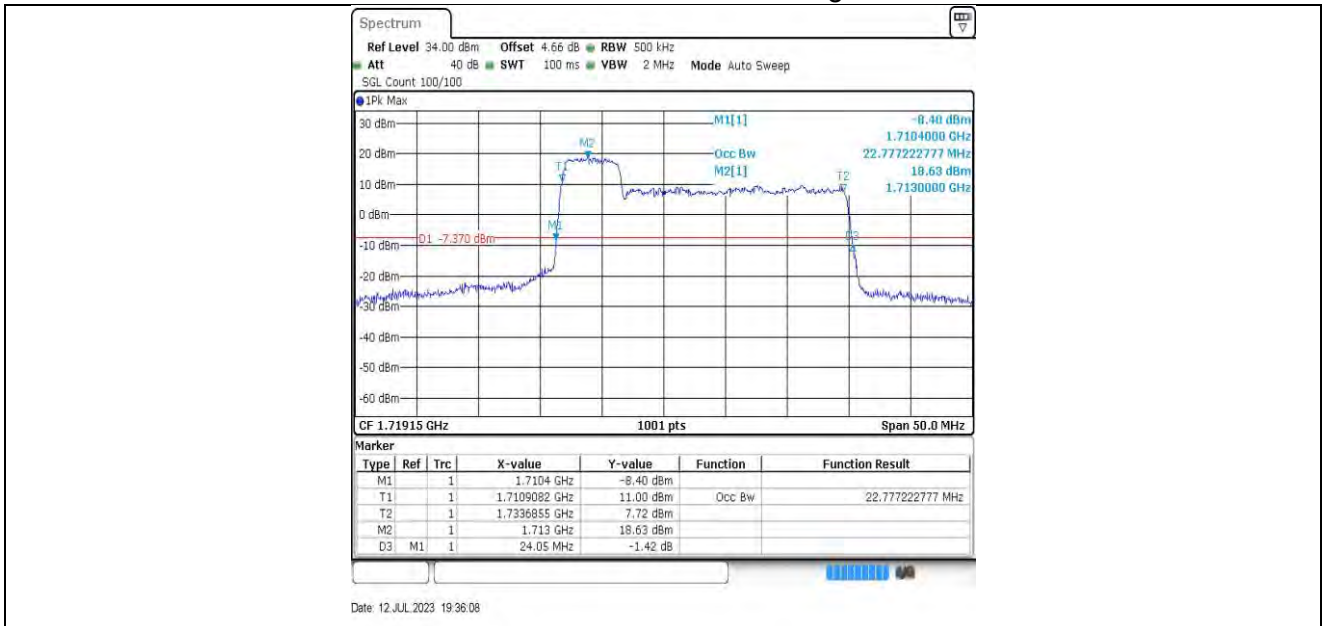
5MHz-20MHz-132455-132572 16QAM-16QAM



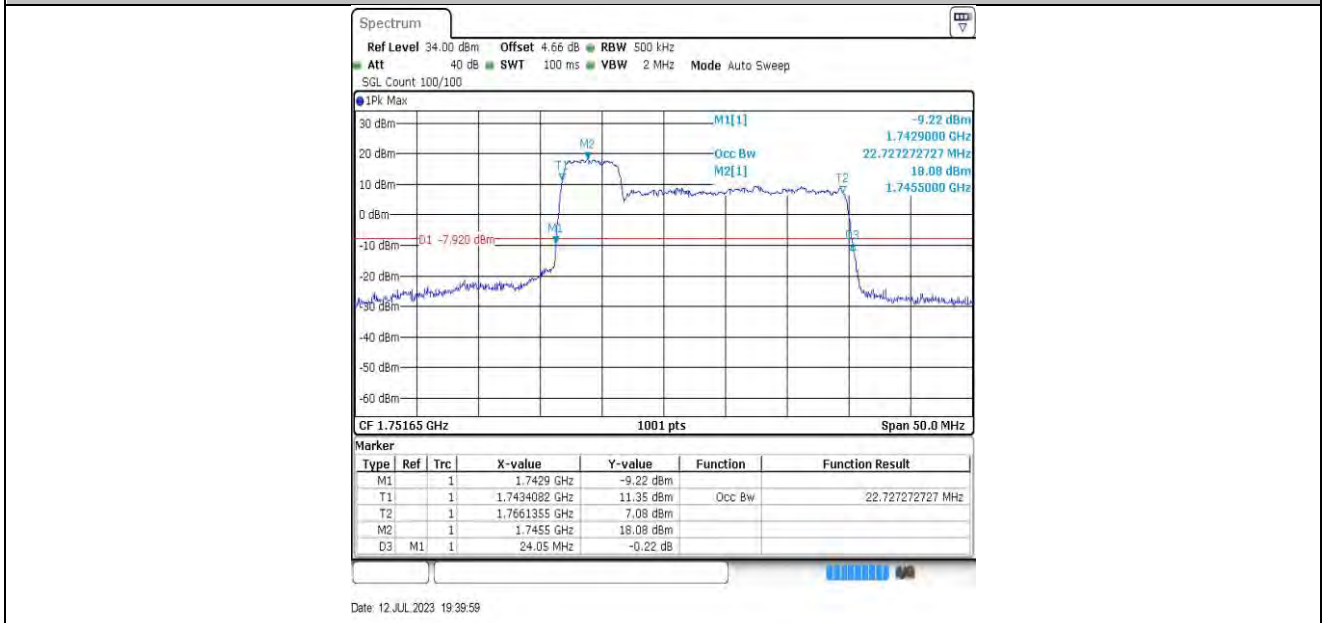
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### 5MHz-20MHz-132005-132122 64QAM-64QAM



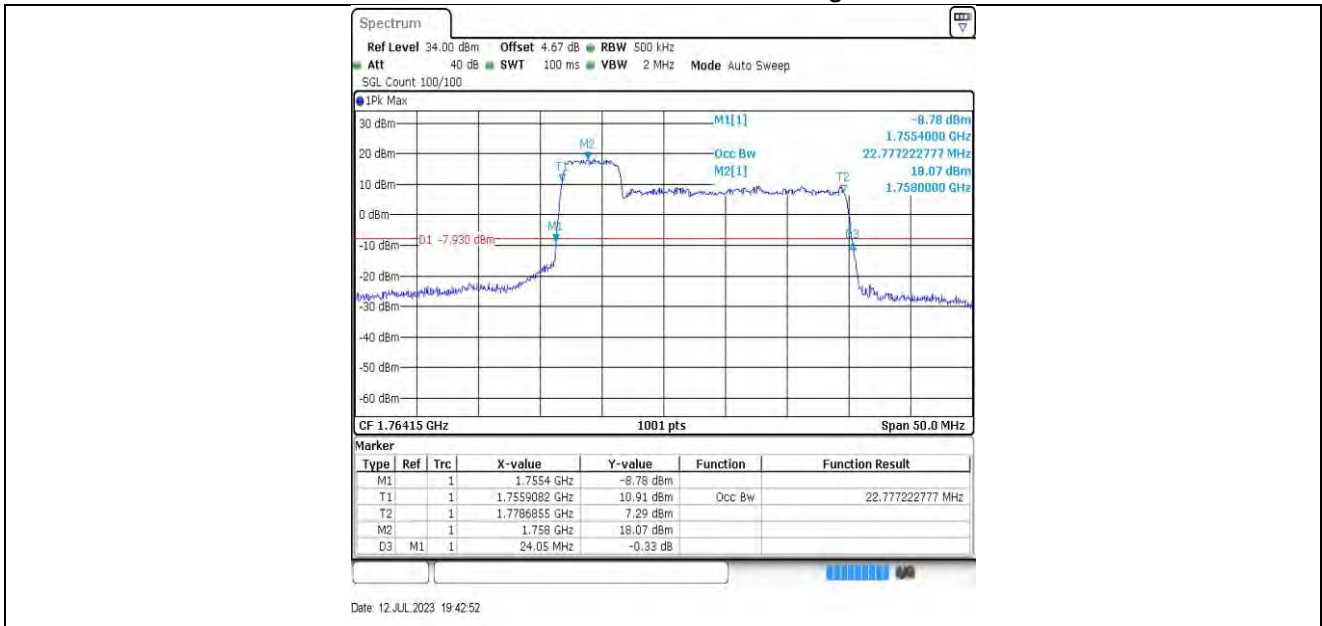
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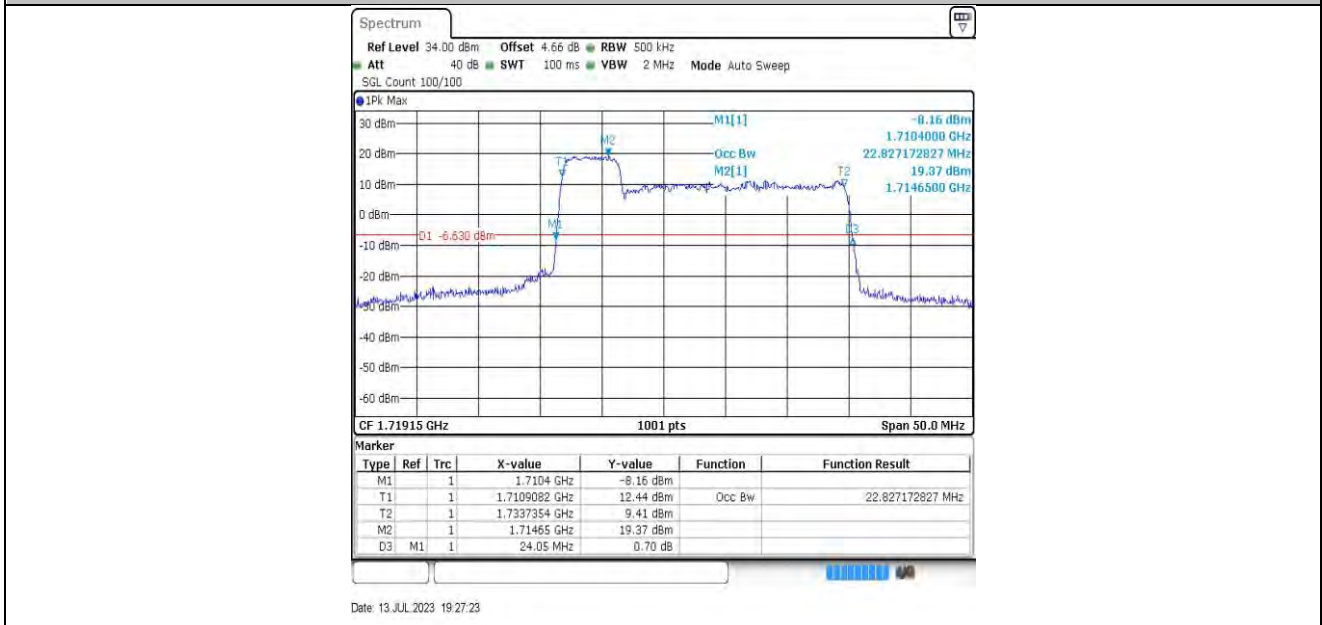
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**5MHz-20MHz-132455-132572 64QAM-64QAM**



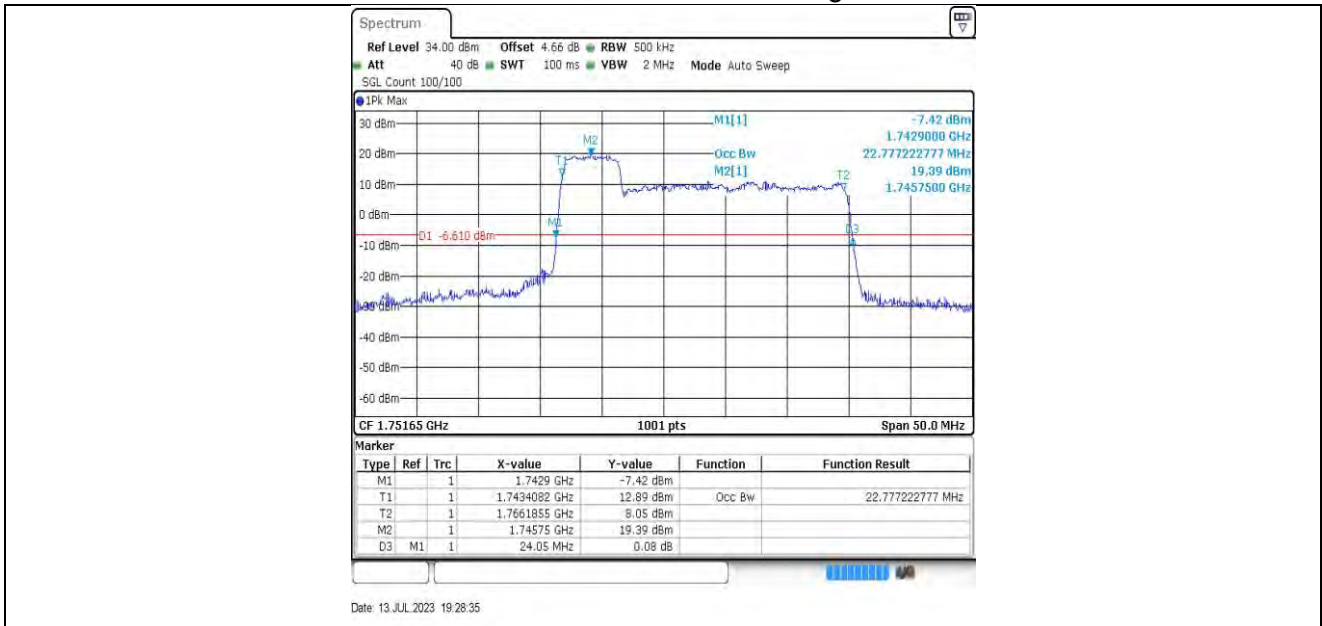
**5MHz-20MHz-132005-132122 256QAM-256QAM**



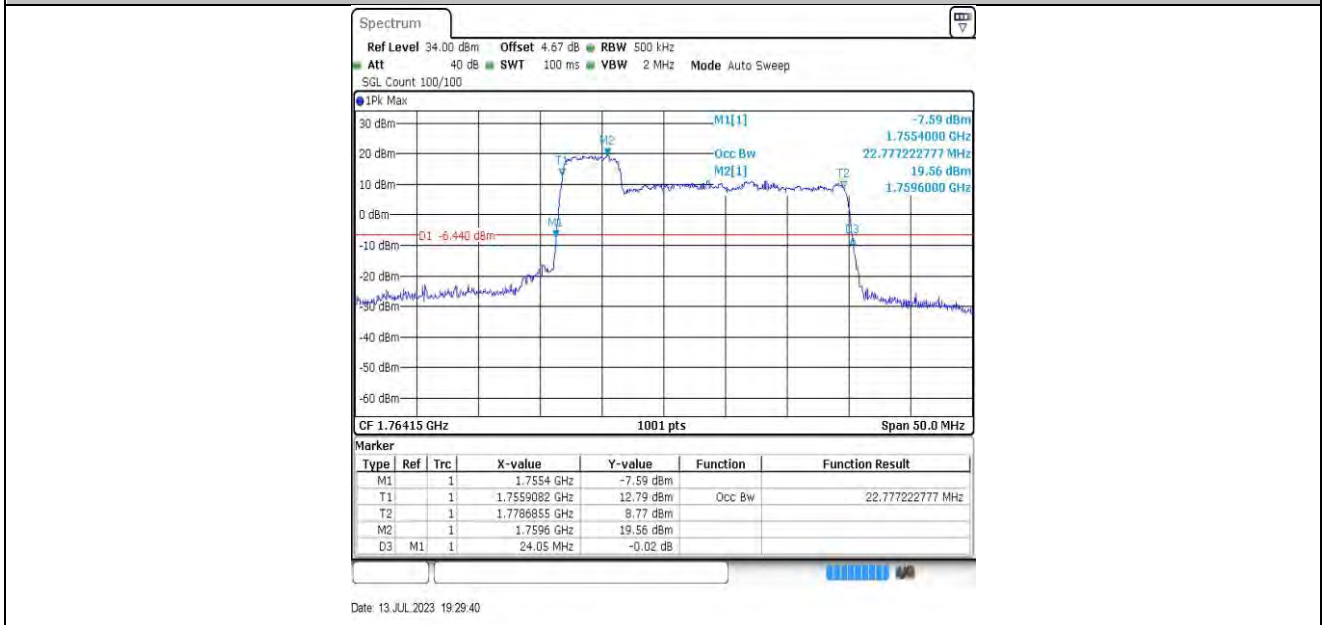
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### 5MHz-20MHz-132330-132447 256QAM-256QAM



### 5MHz-20MHz-132455-132572 256QAM-256QAM



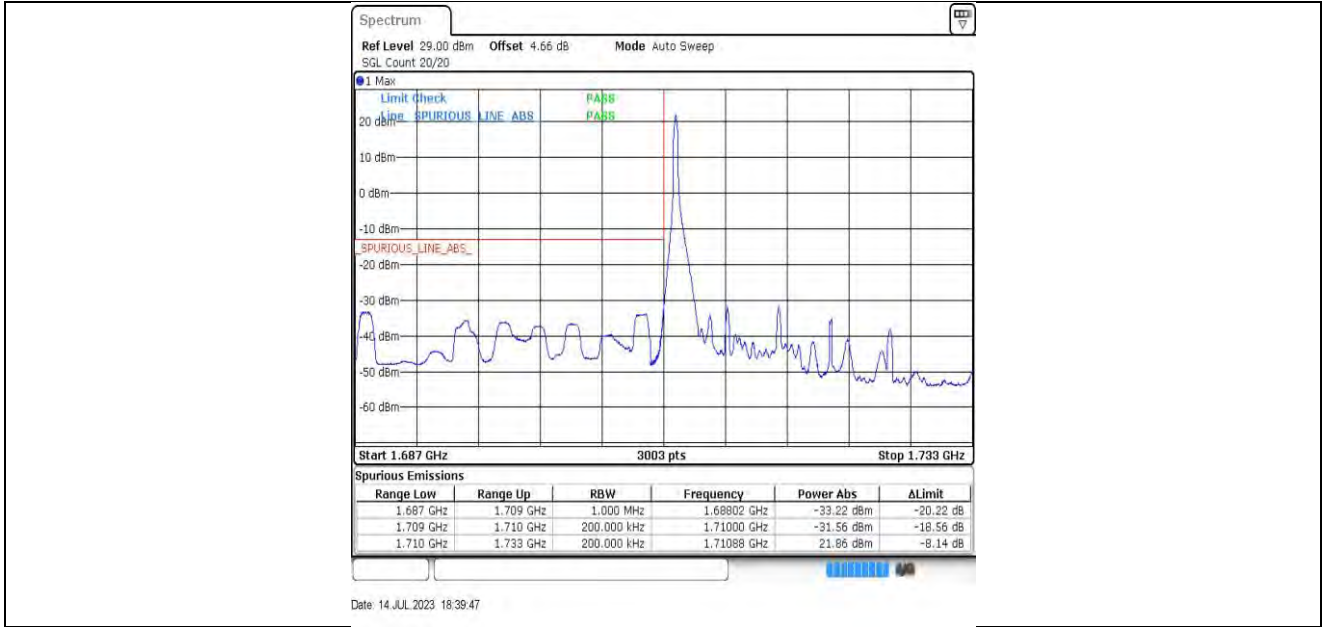
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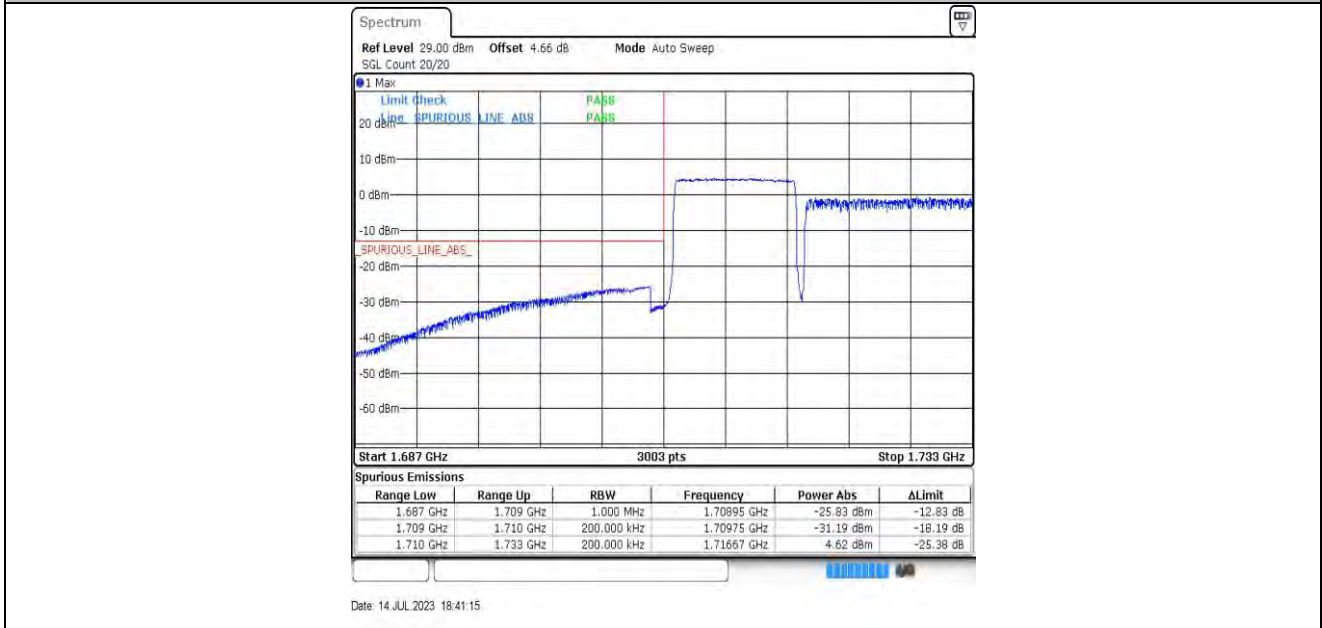
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### Band Edge

### Test Graphs



10MHz-15MHz\_QPSK@QPSK-QPSK@QPSK\_132025-132145\_1RB#0@50RB#0-0RB#0@75RB#0

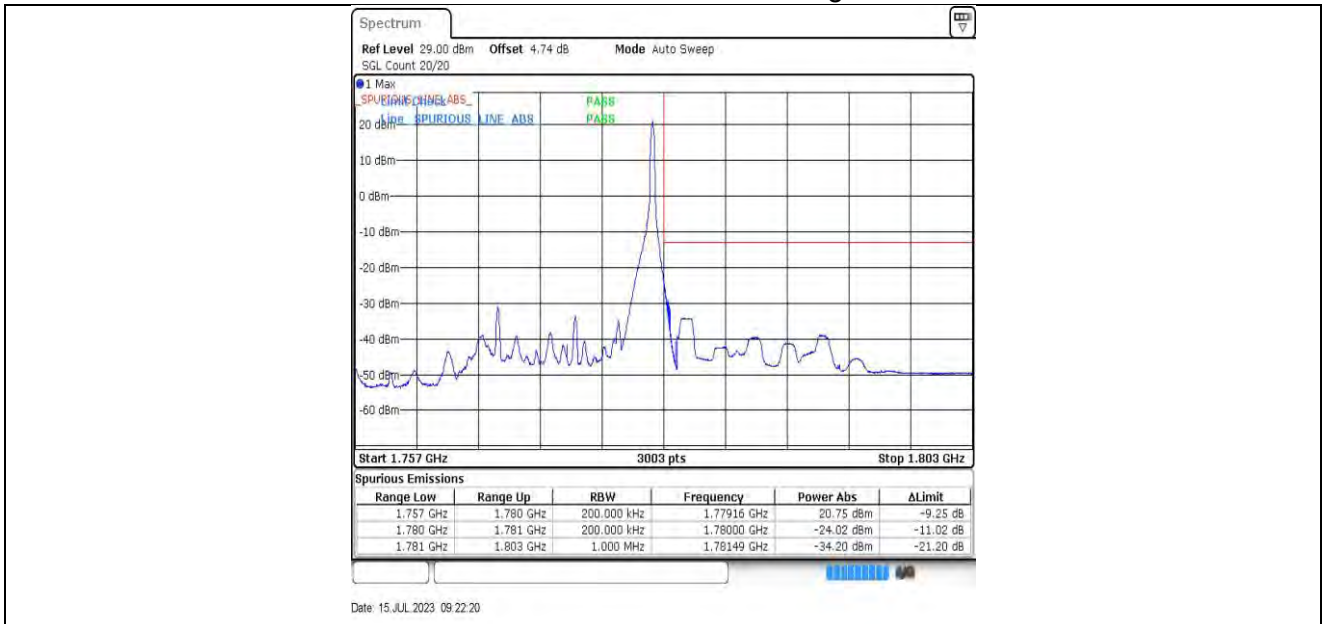


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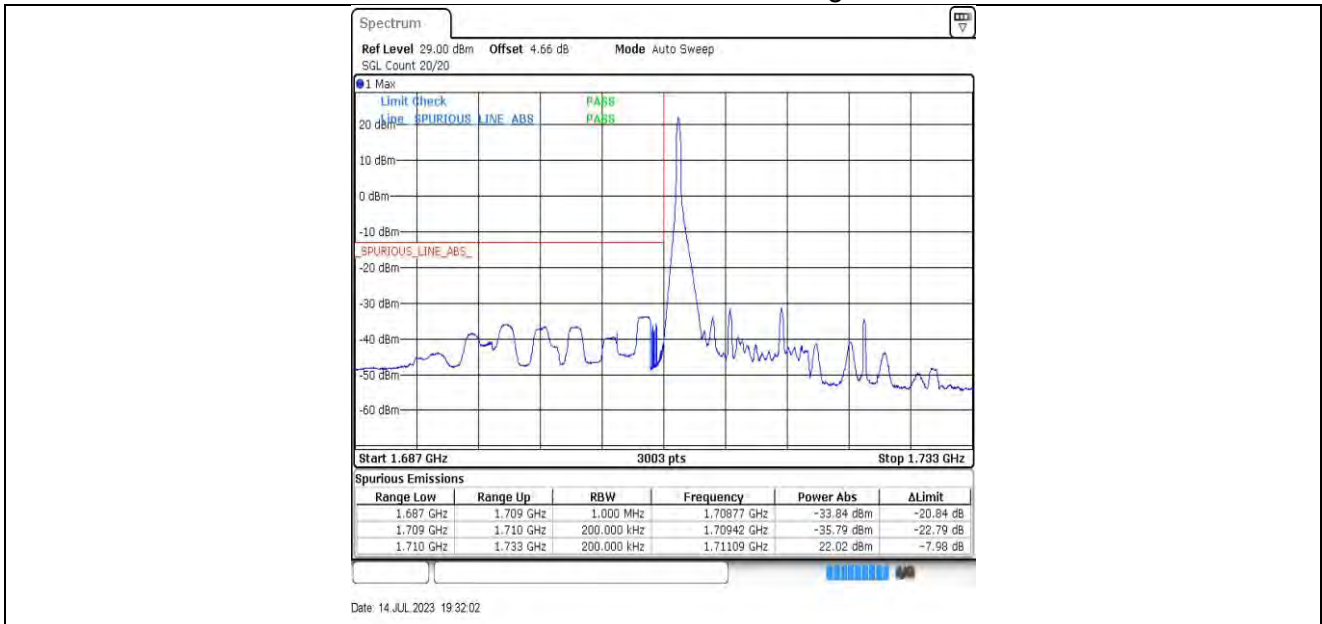
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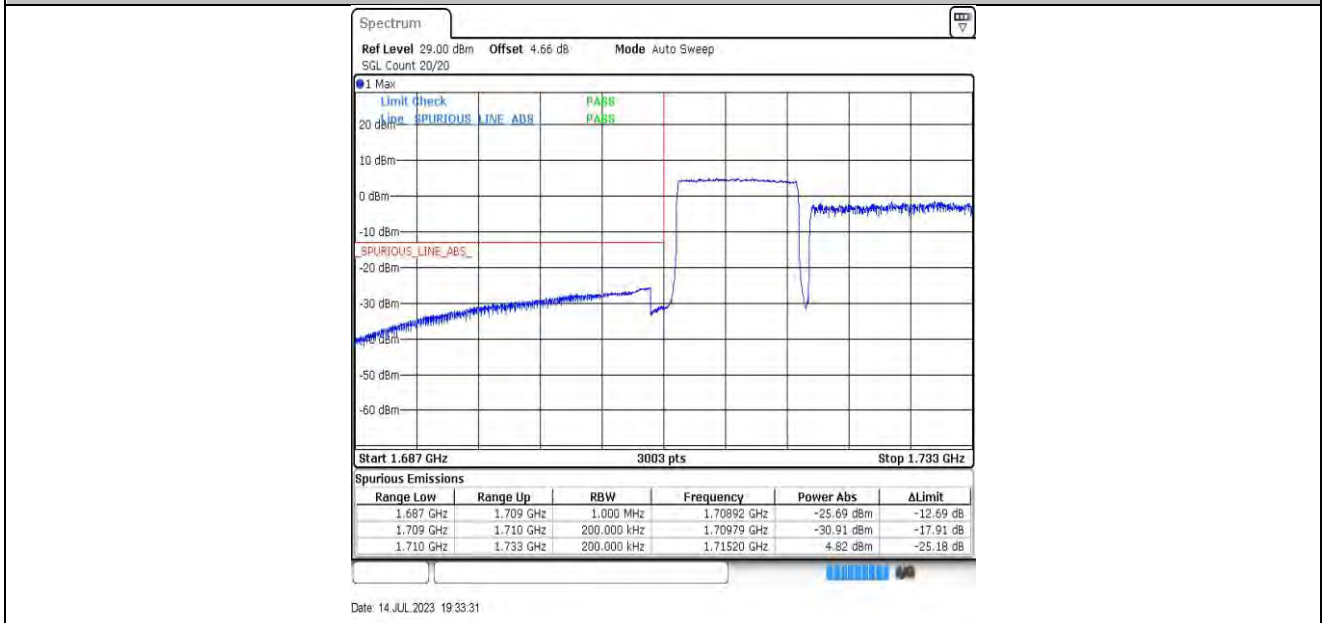
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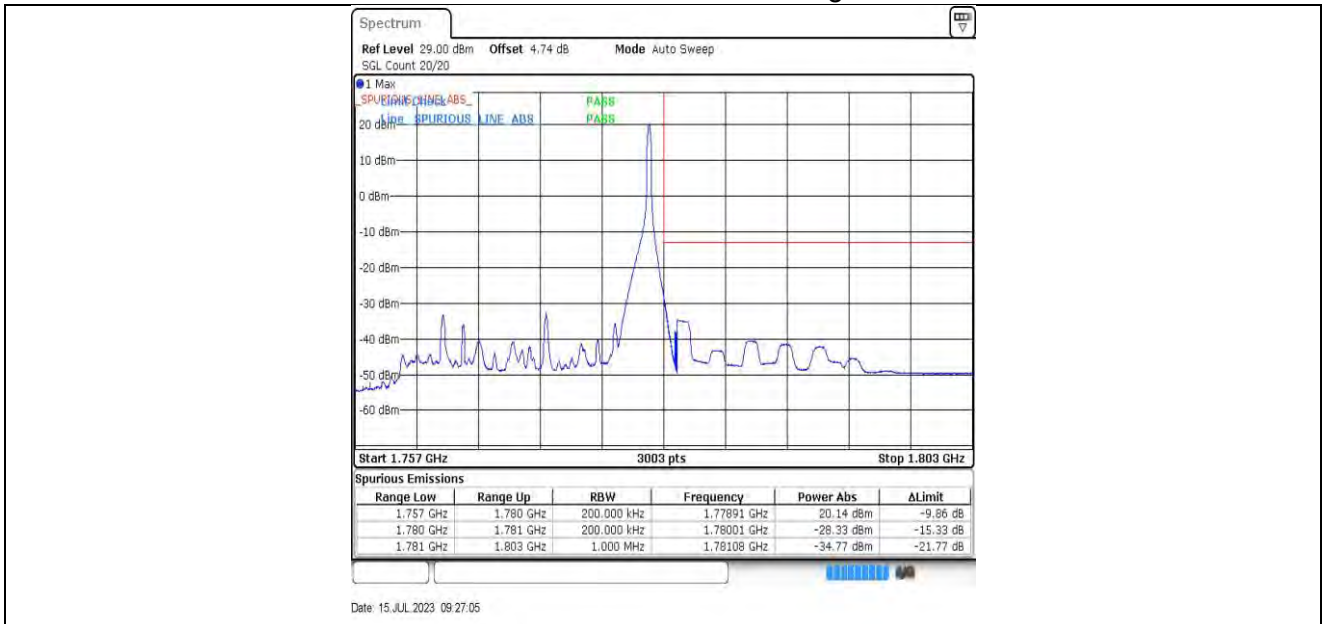
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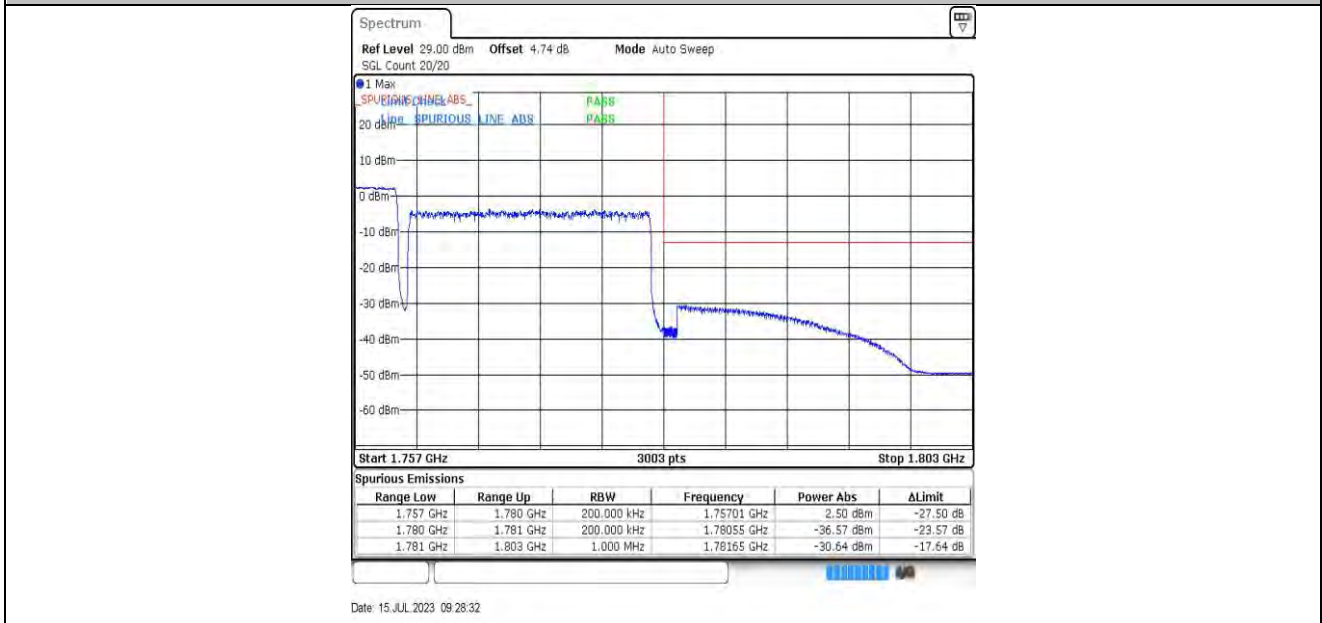
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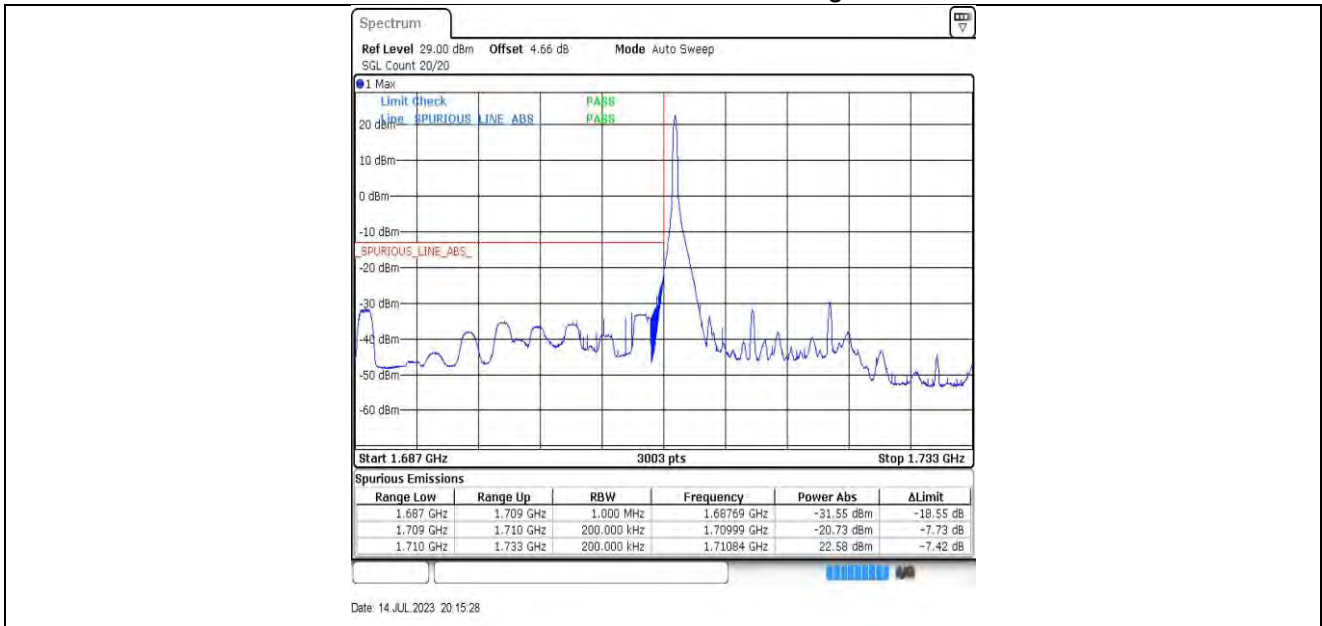


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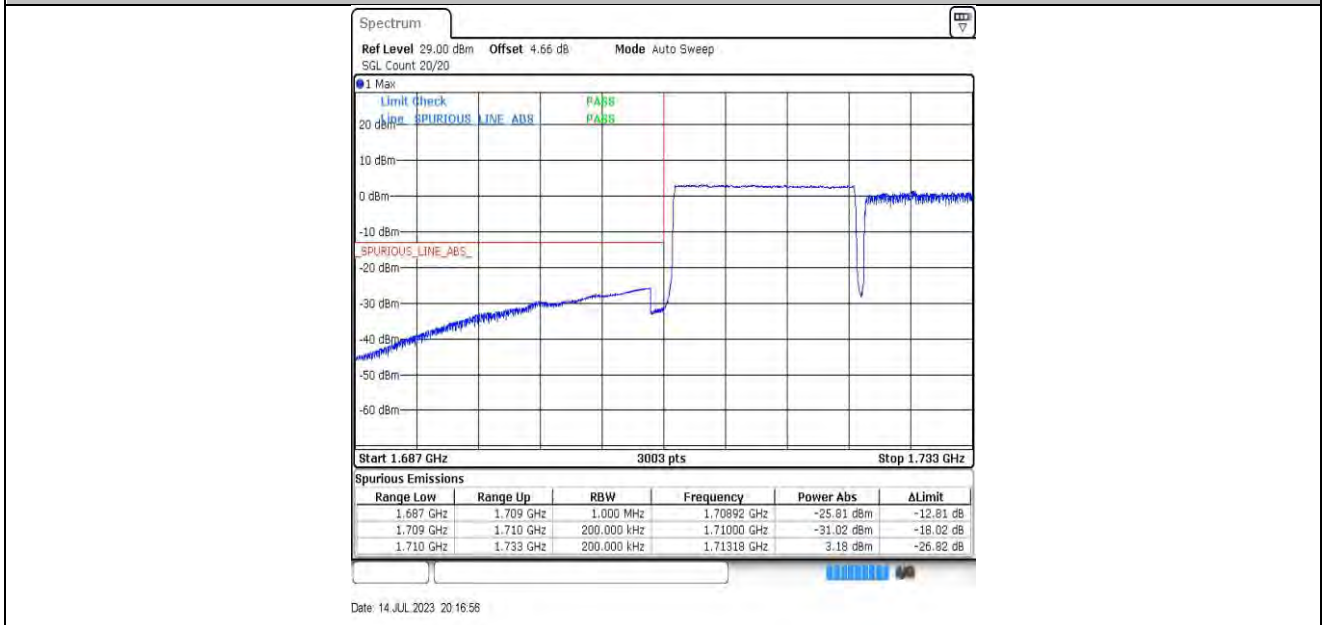
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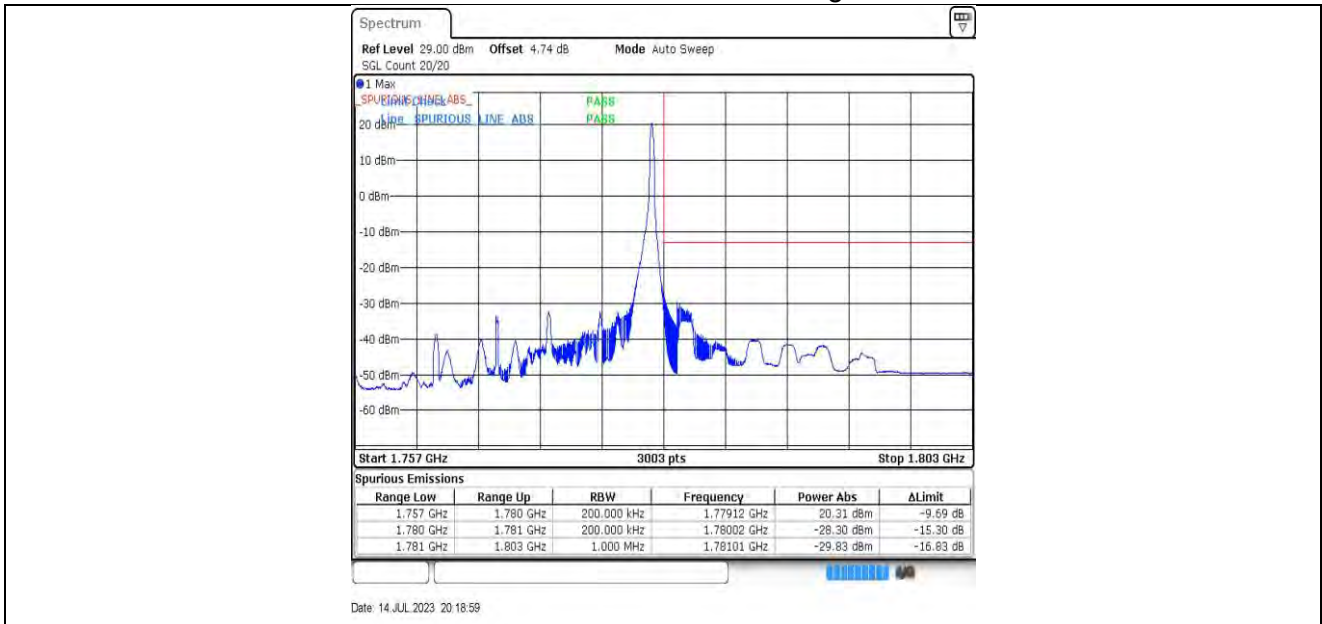
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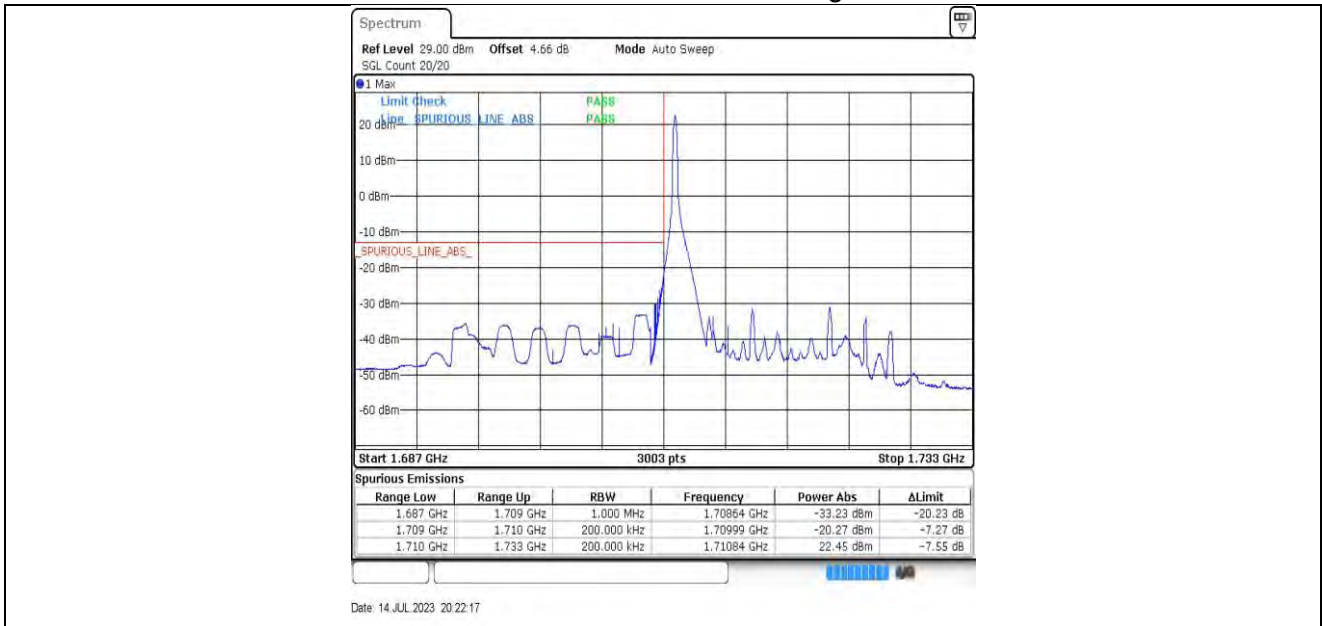
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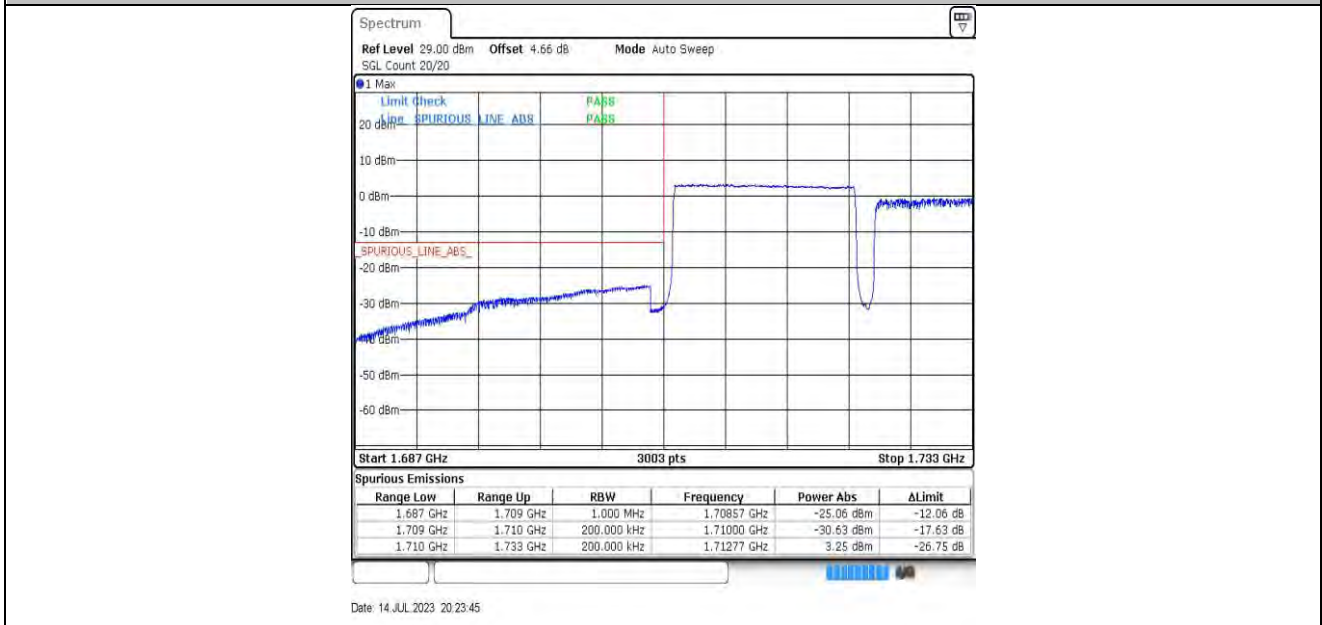
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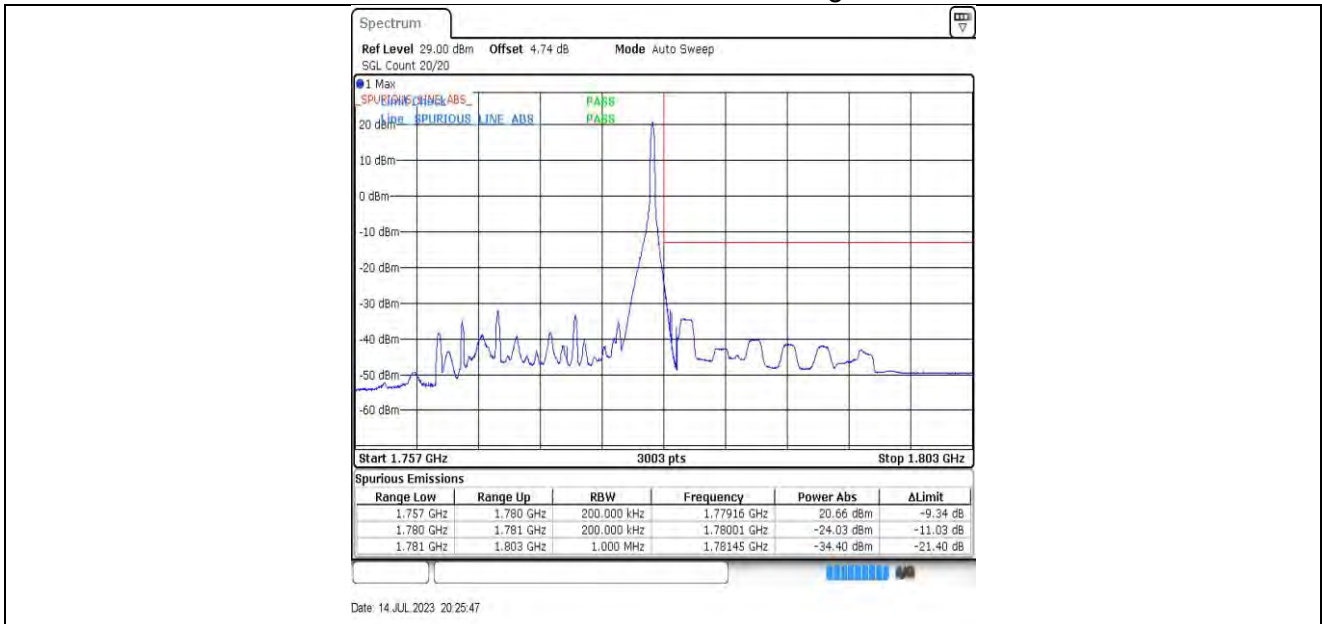
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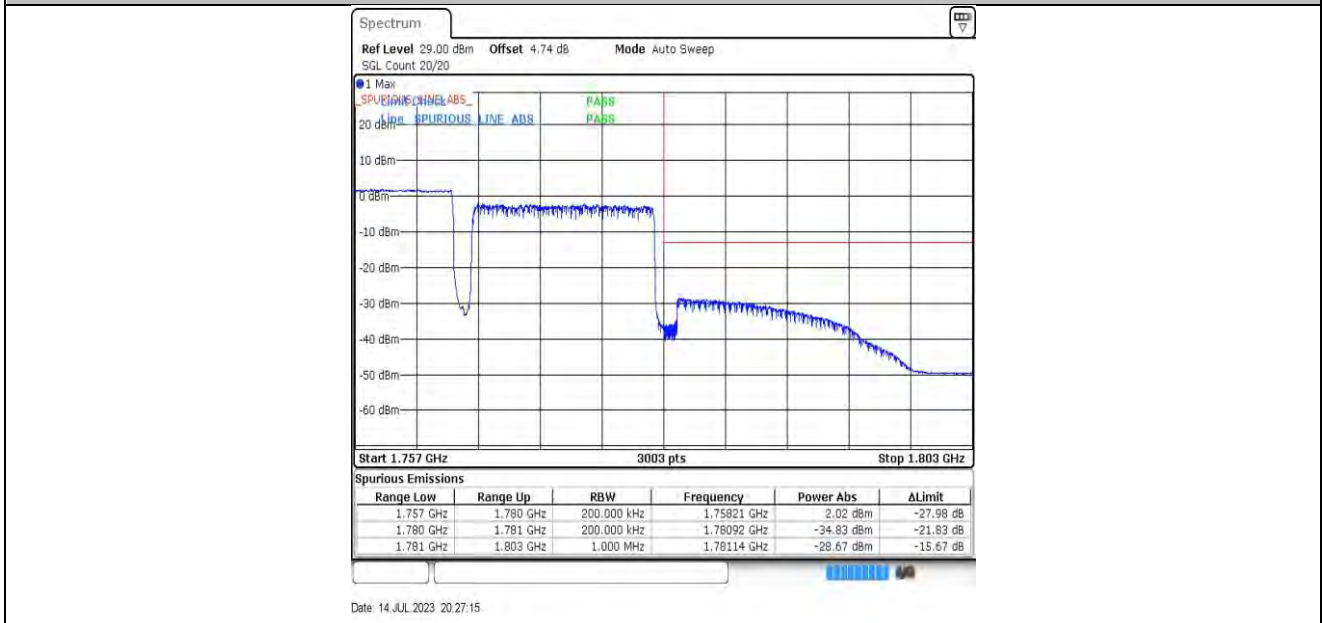
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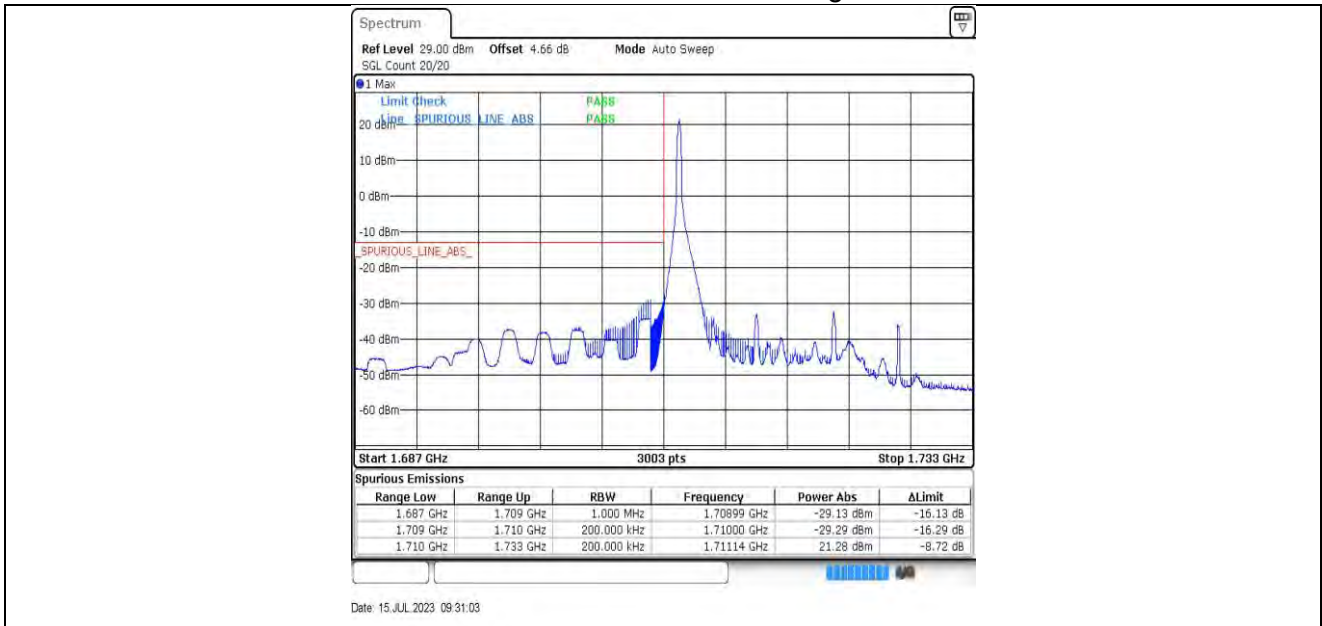
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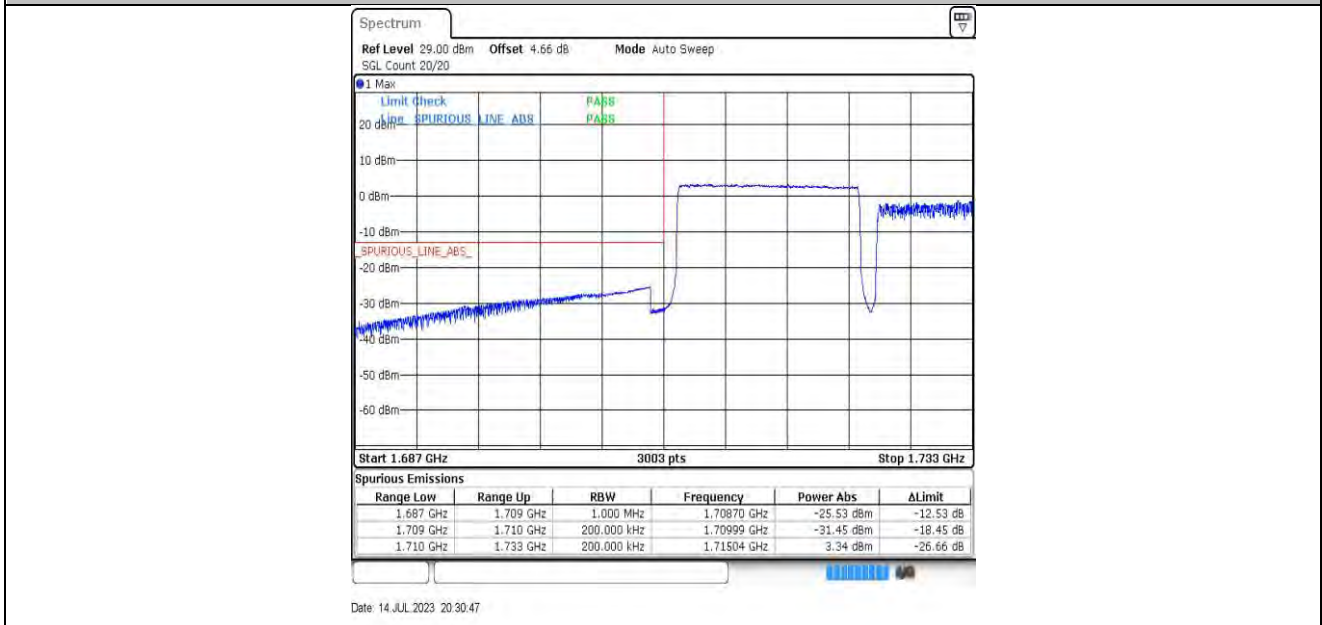
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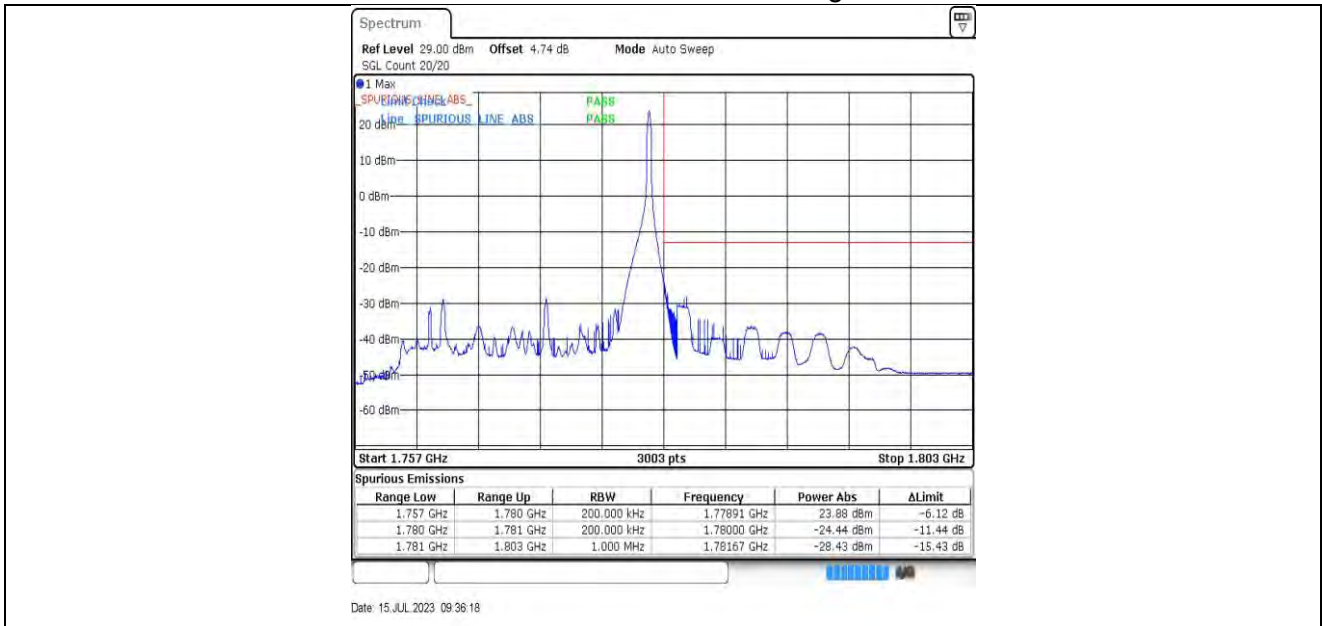
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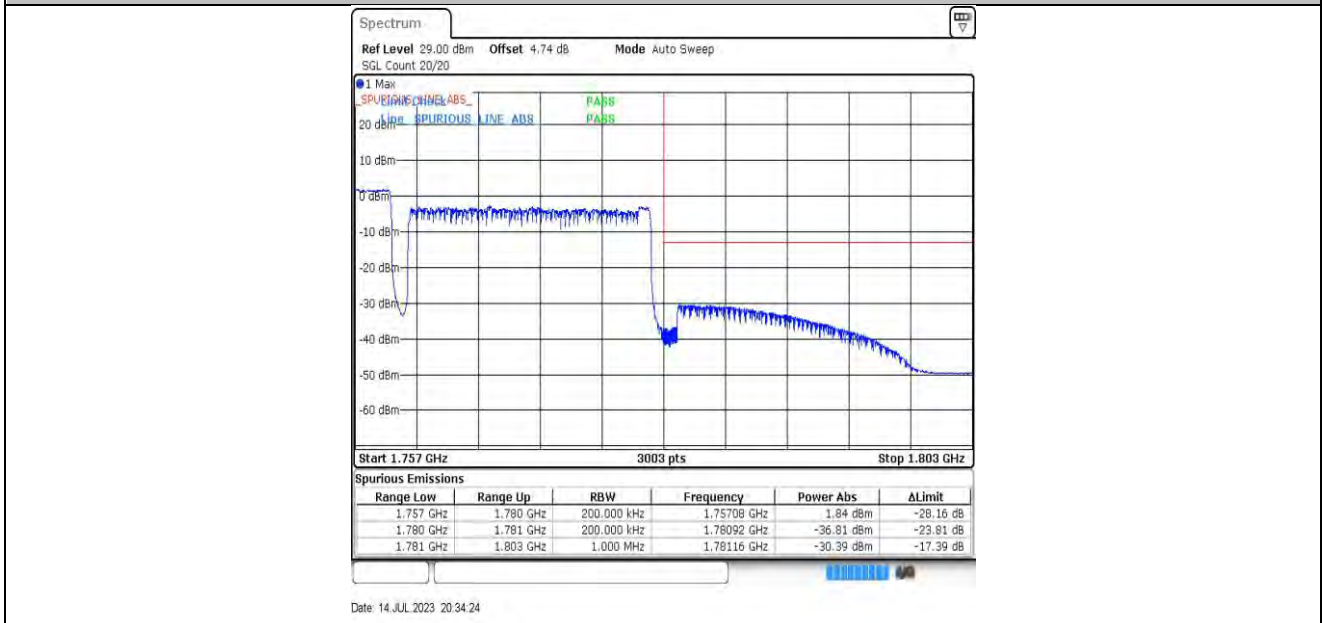
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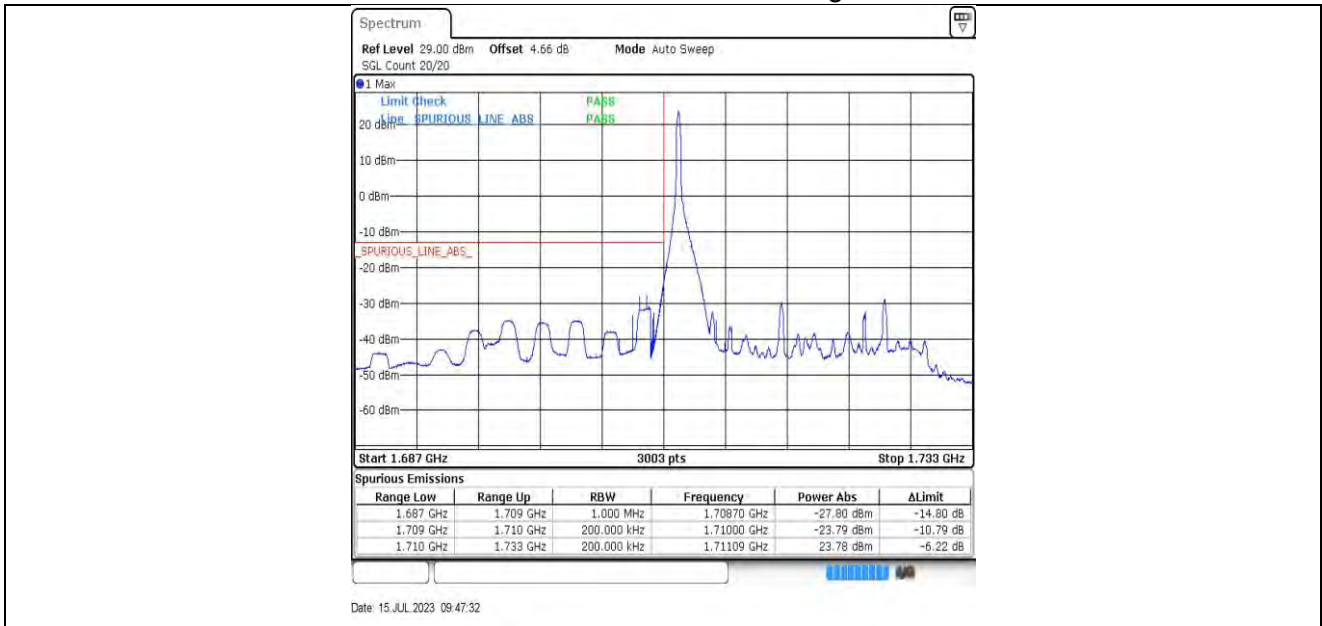
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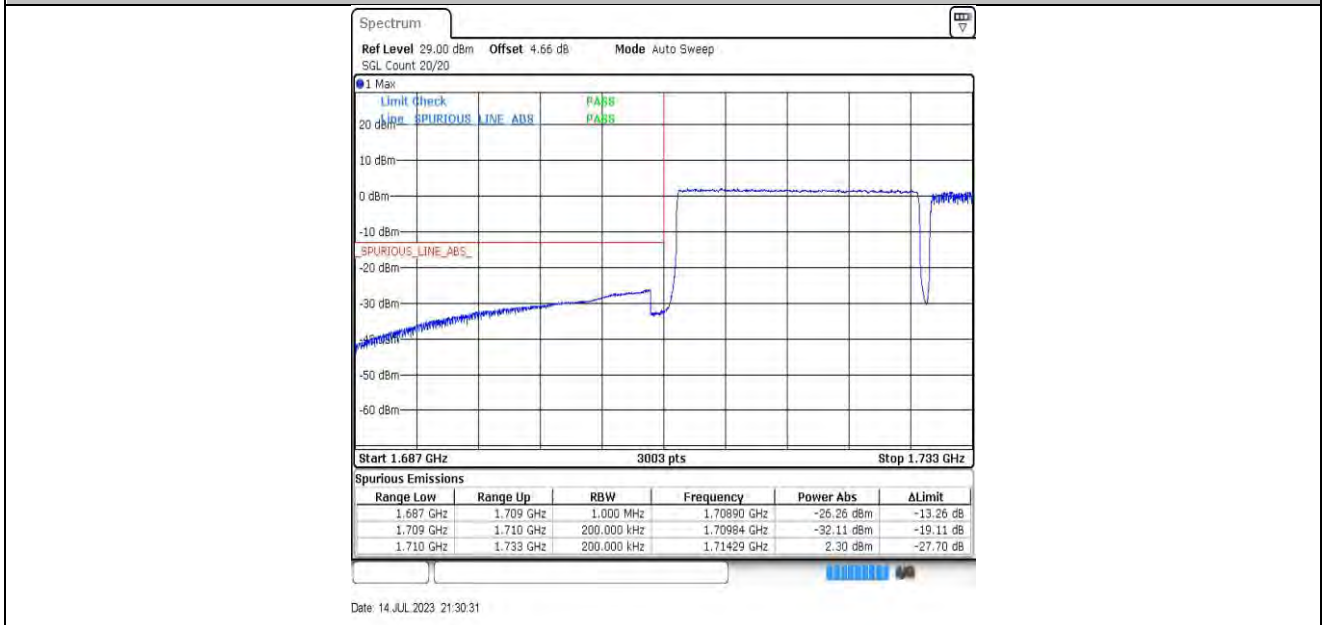
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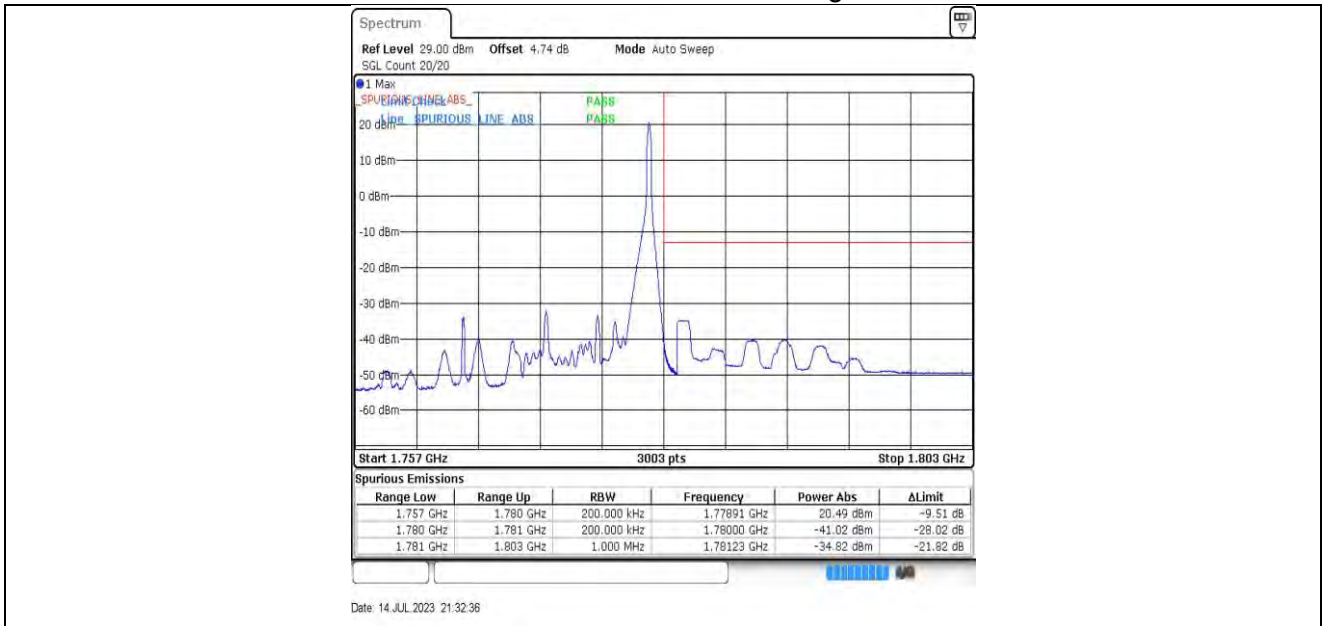
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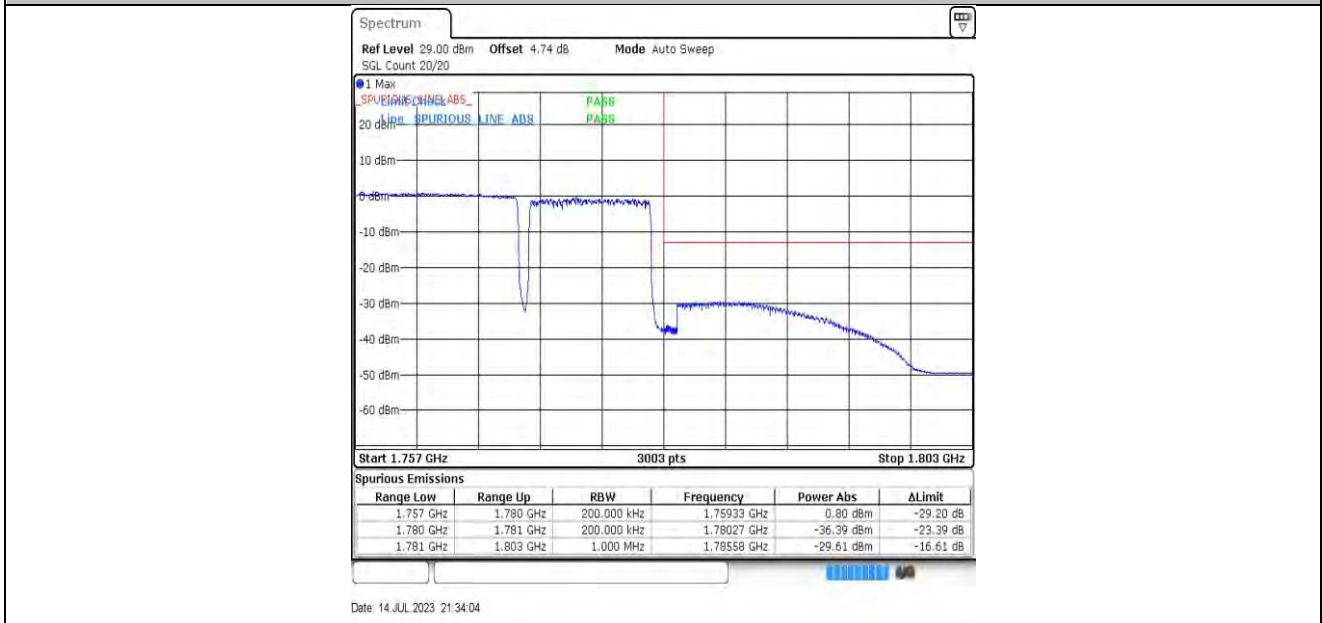
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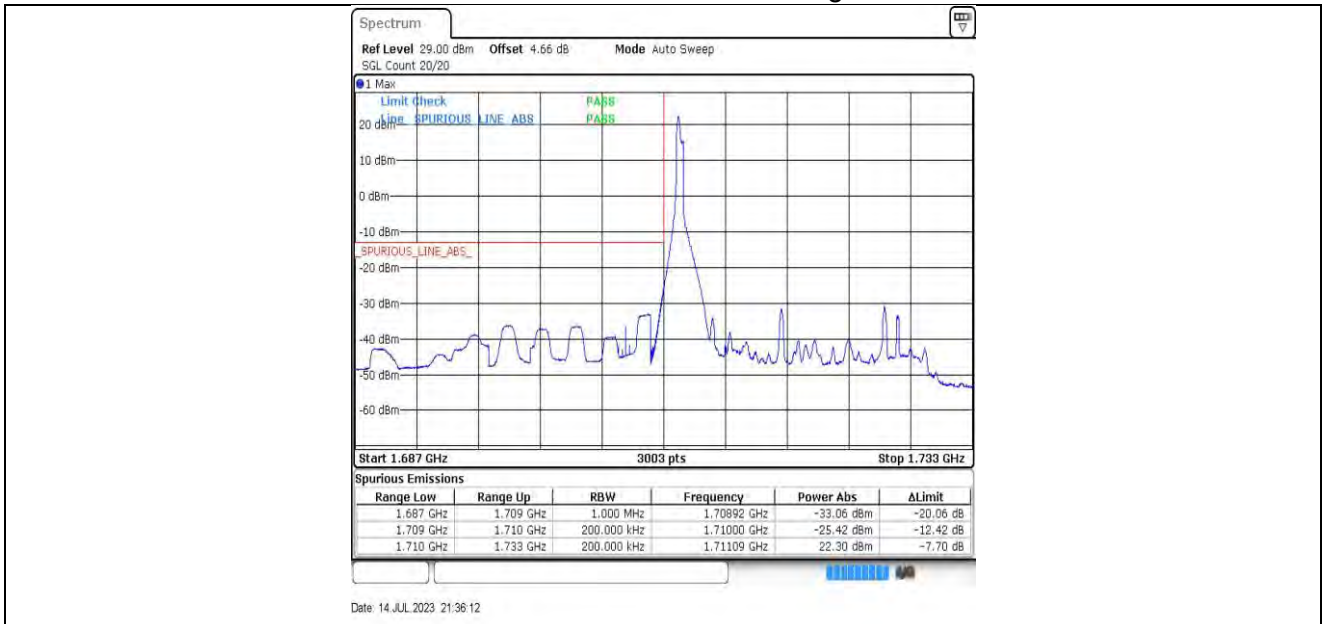


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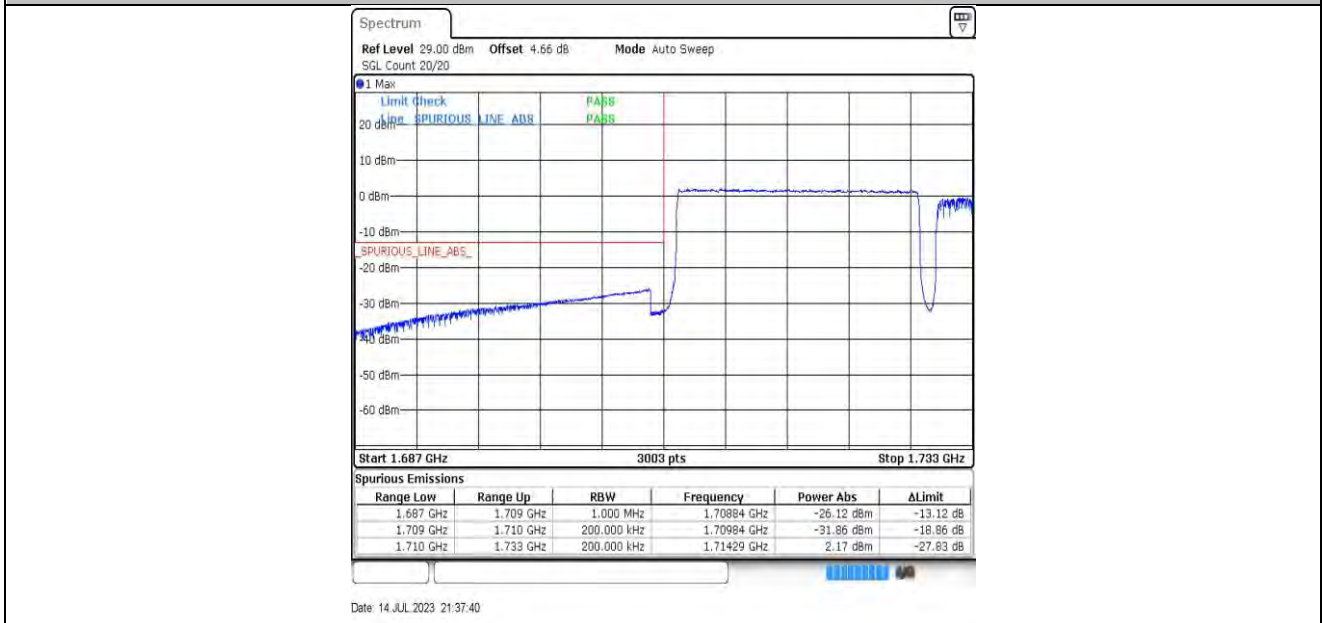
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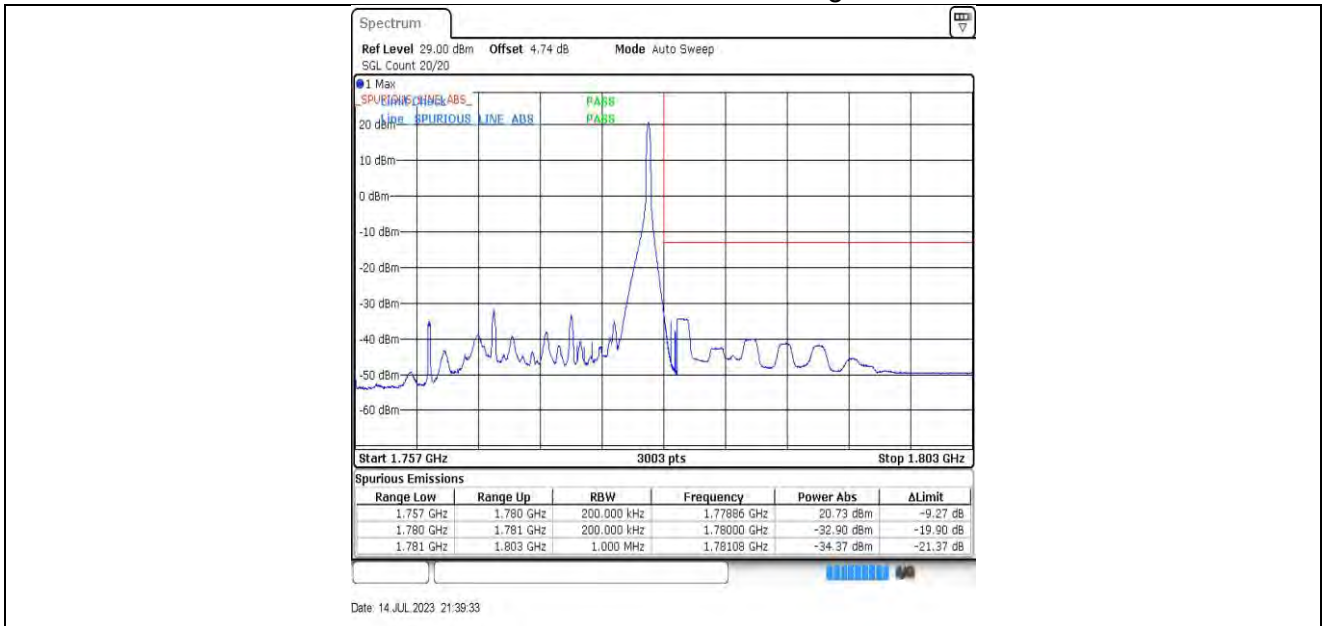
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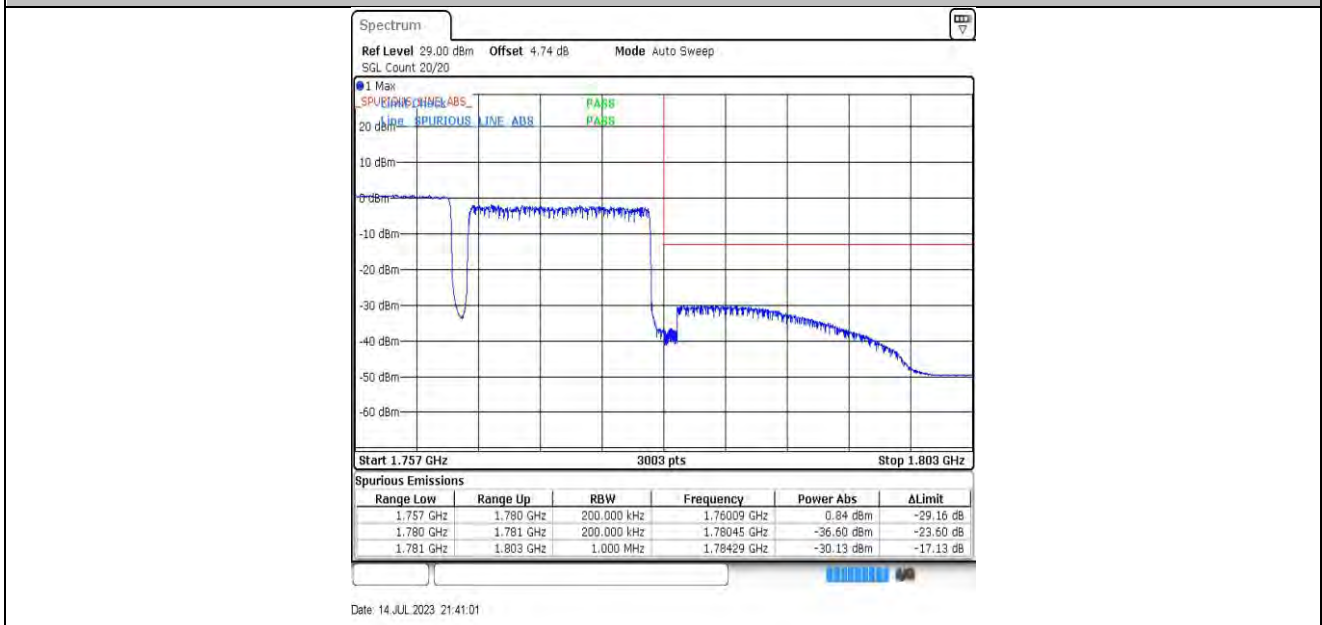
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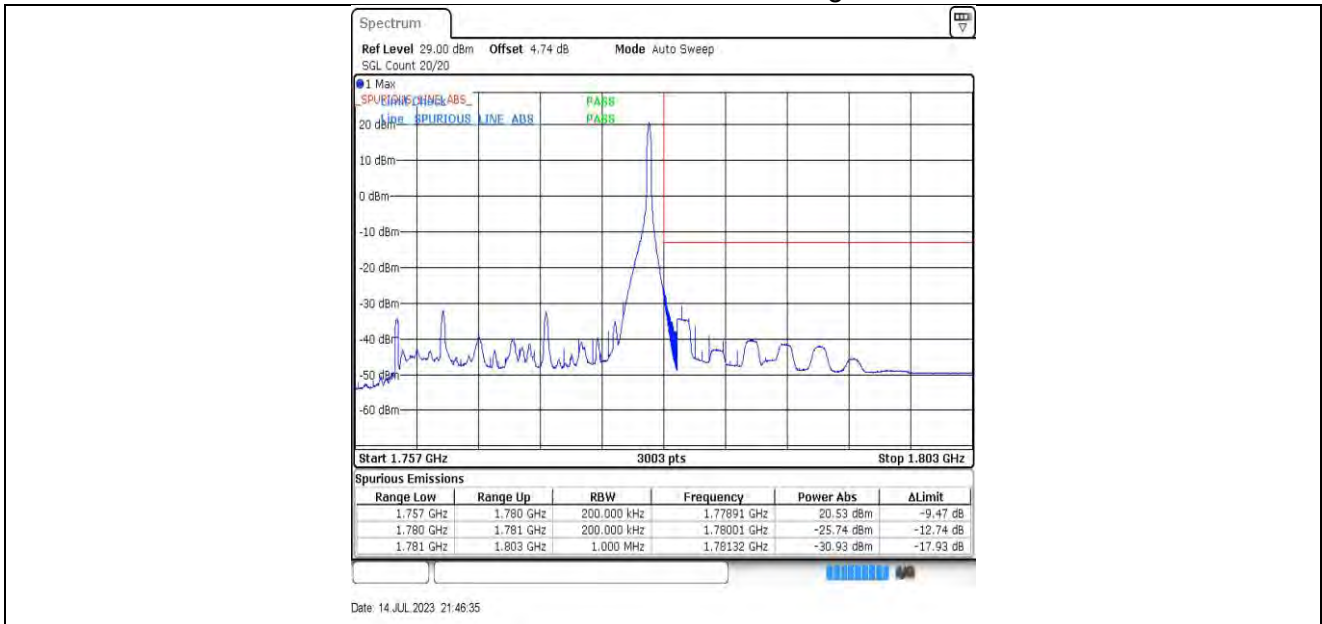
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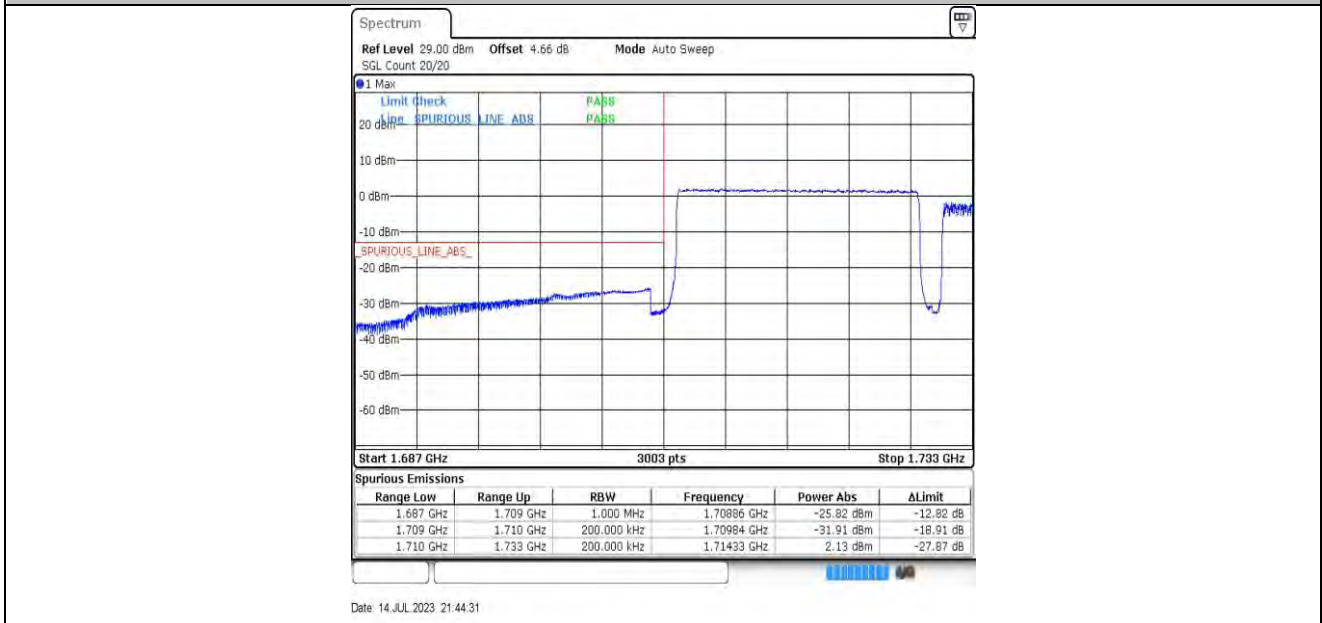
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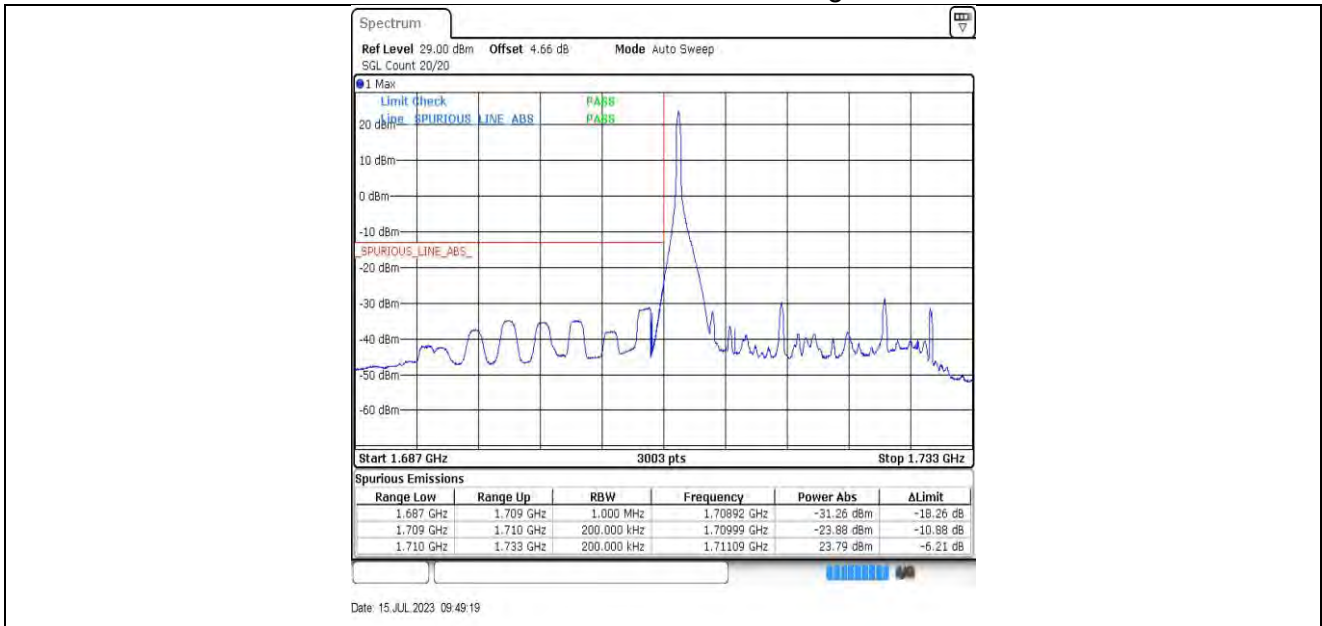
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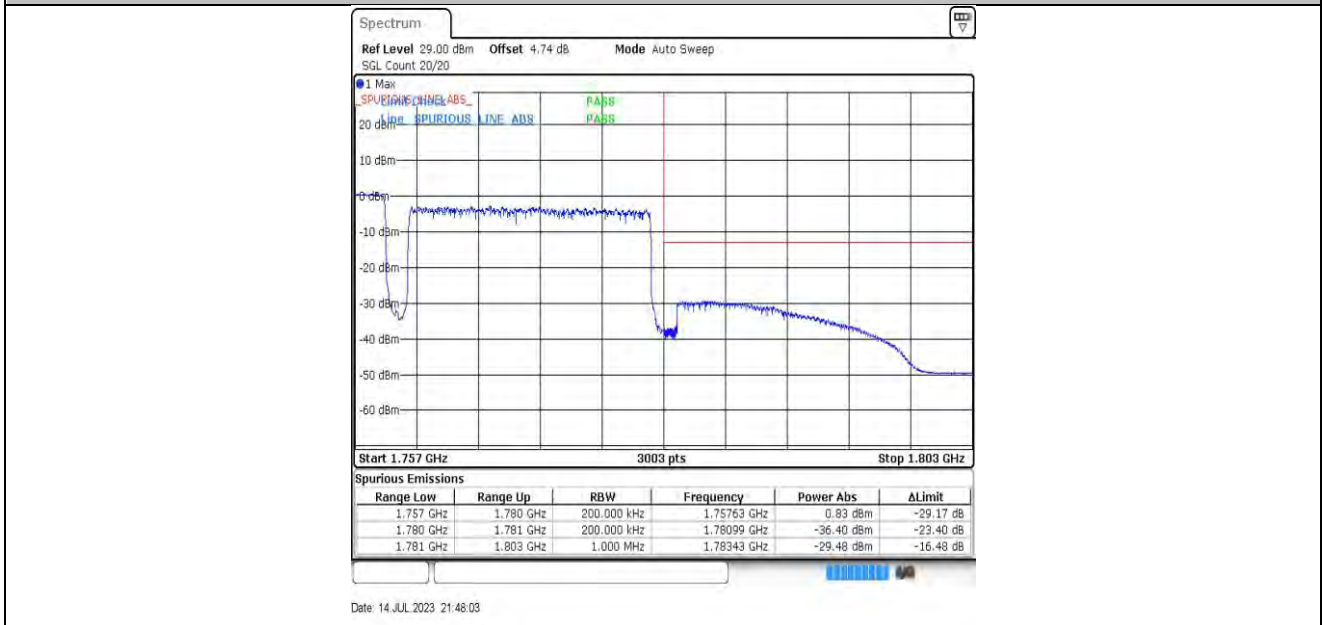
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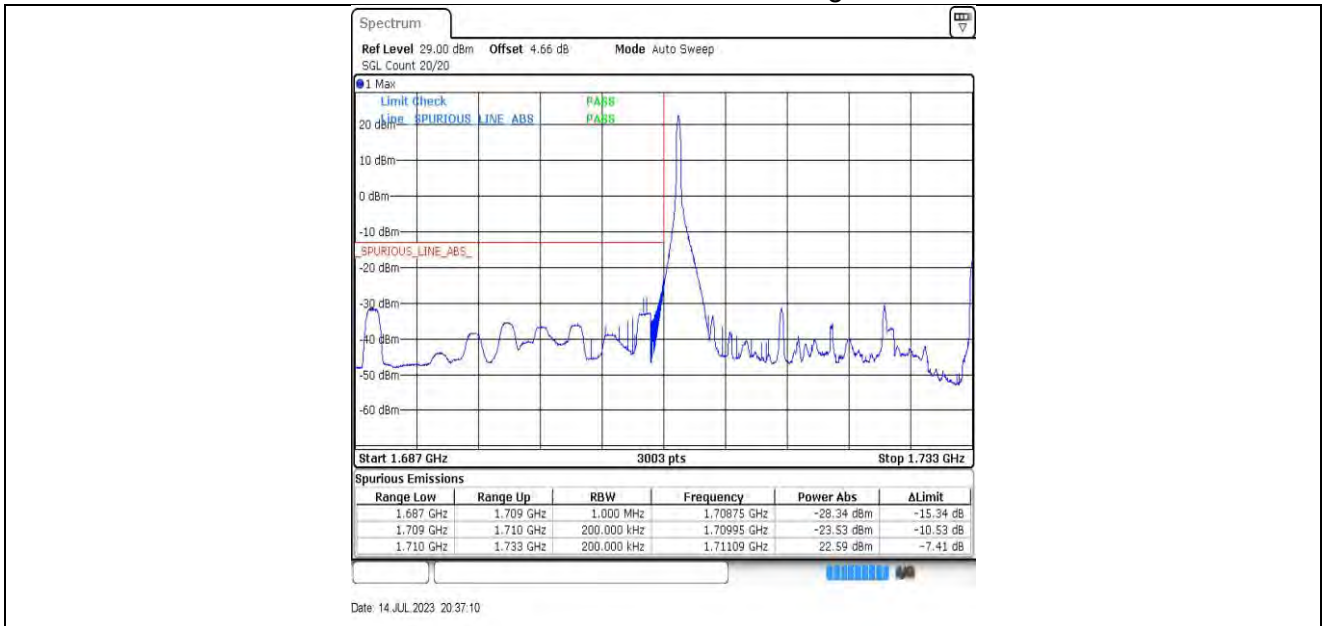
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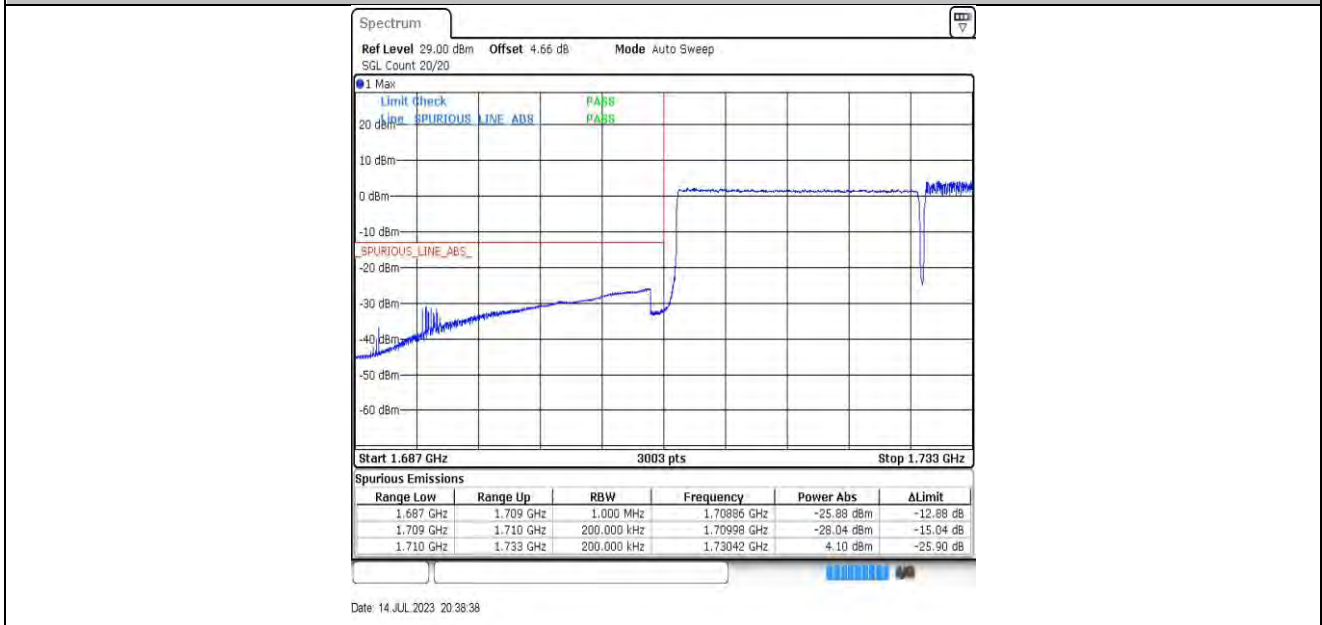
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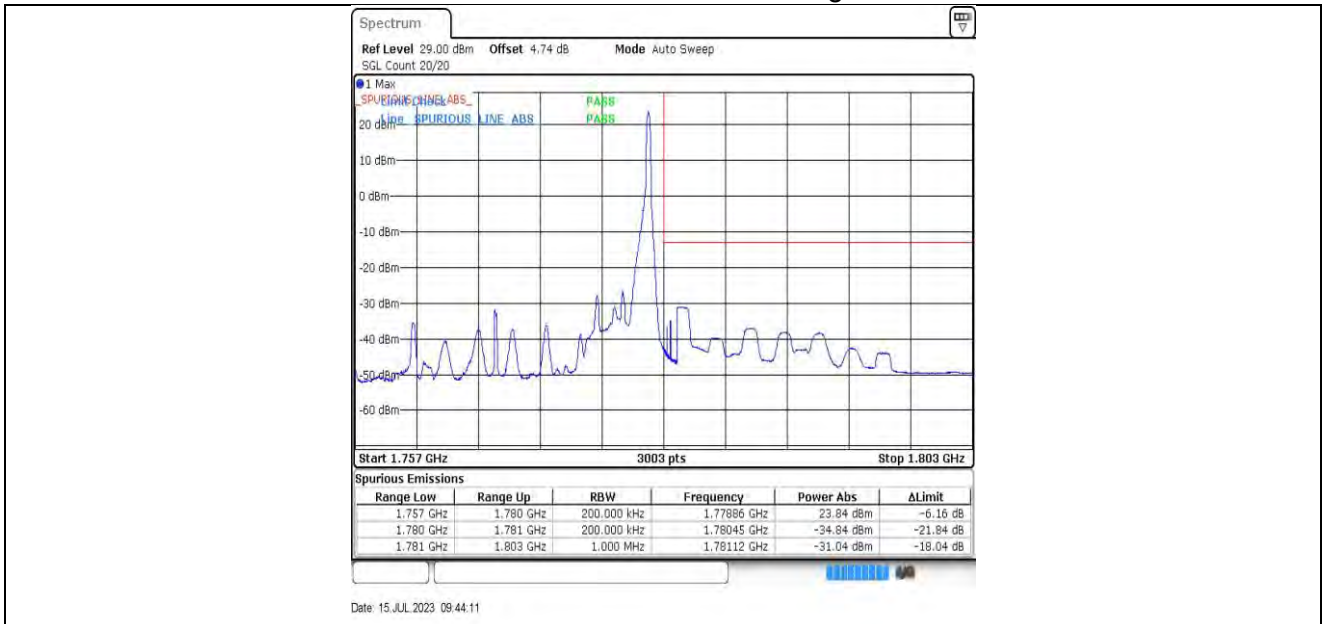
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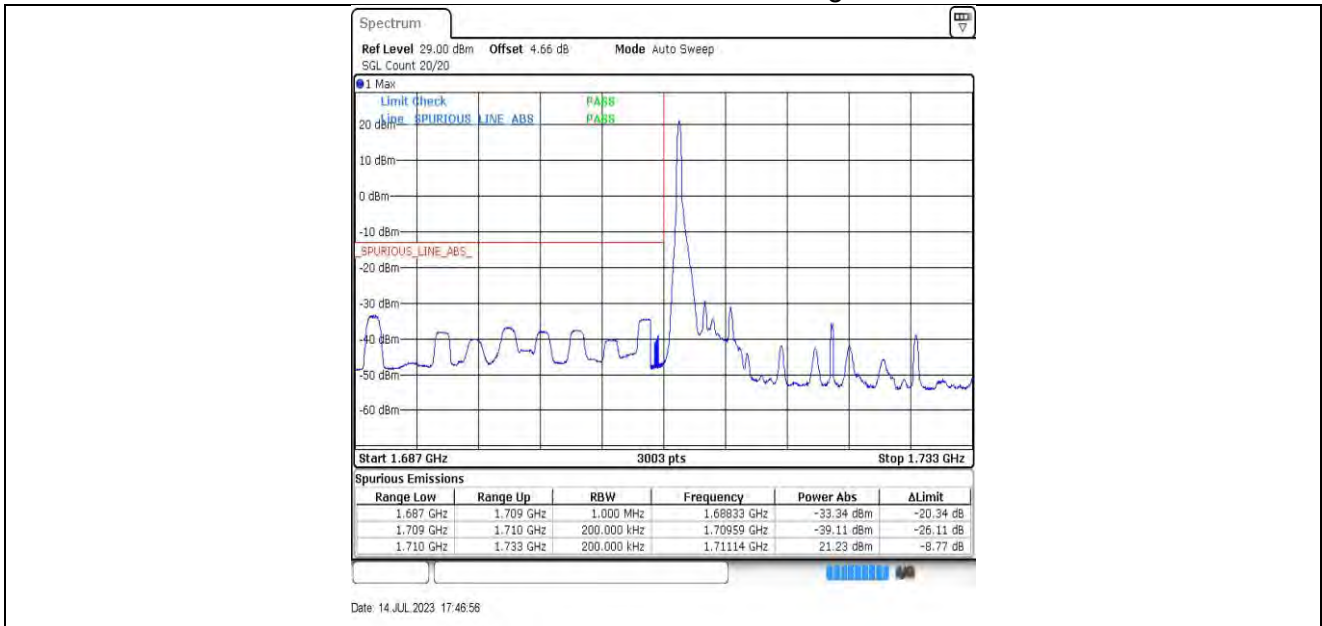
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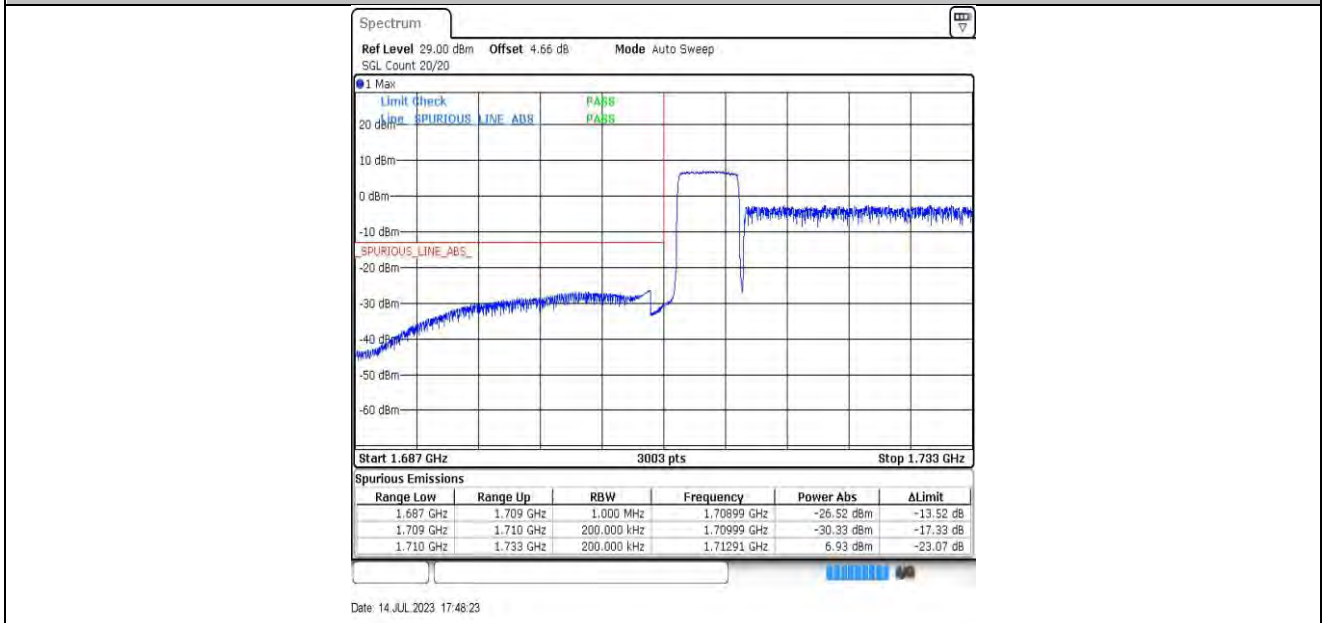
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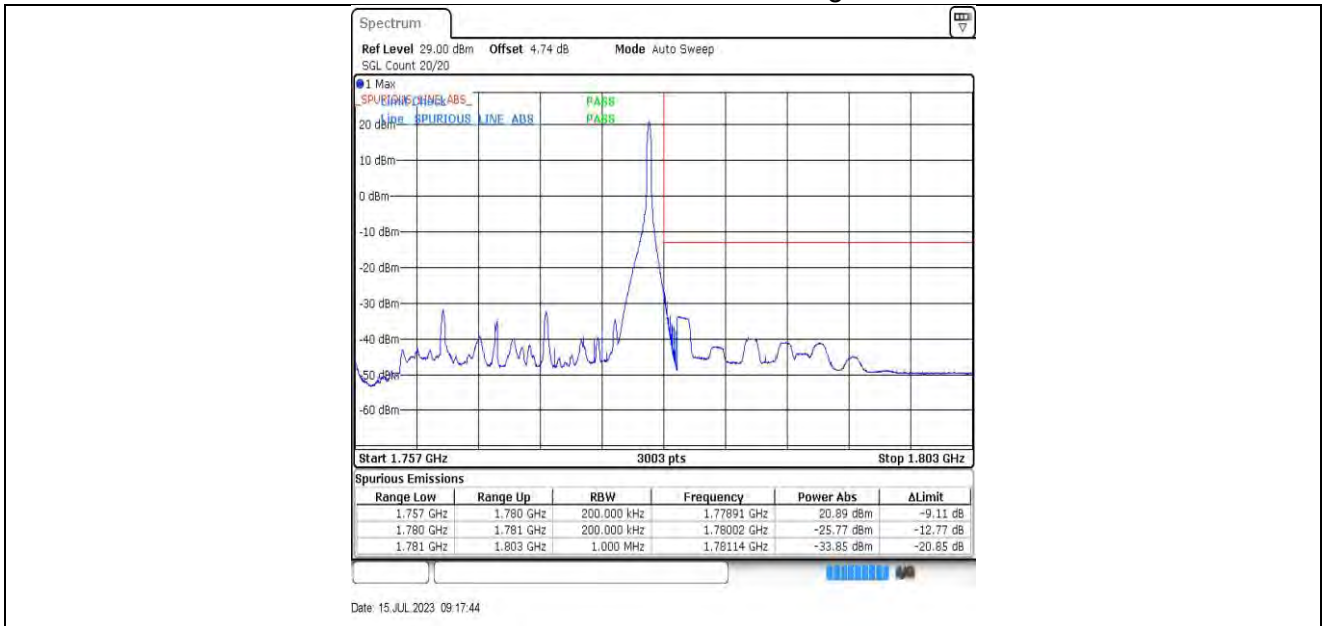


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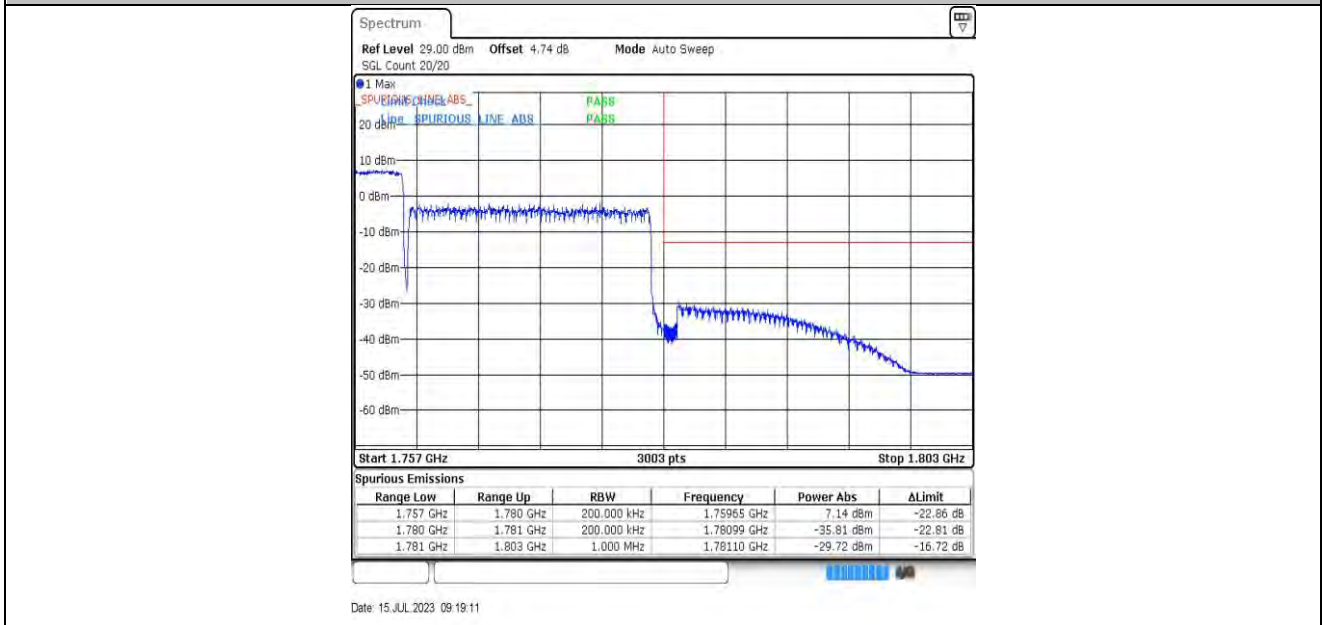


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5MHz-20MHz\_QPSK@QPSK-QPSK@QPSK\_132455-132572\_0RB#0@25RB#0-1RB#99@100RB#0



5MHz-20MHz\_QPSK@QPSK-QPSK@QPSK\_132455-132572\_25RB#0@25RB#0-100RB#0@100RB#0



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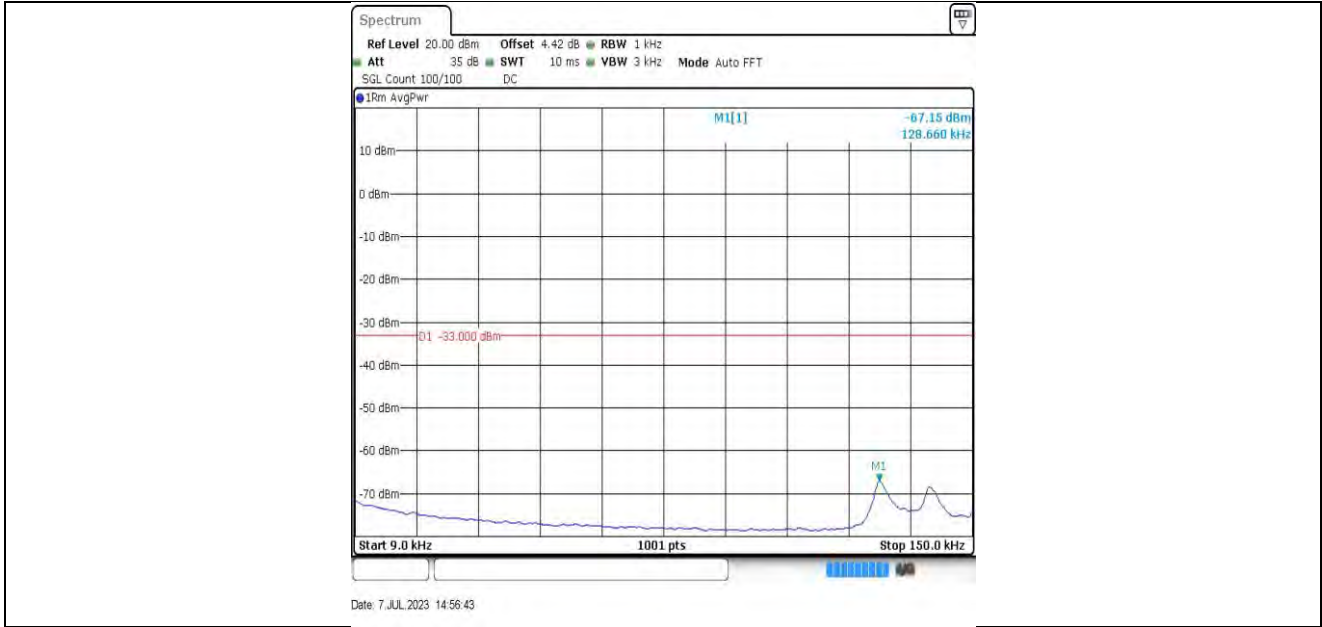
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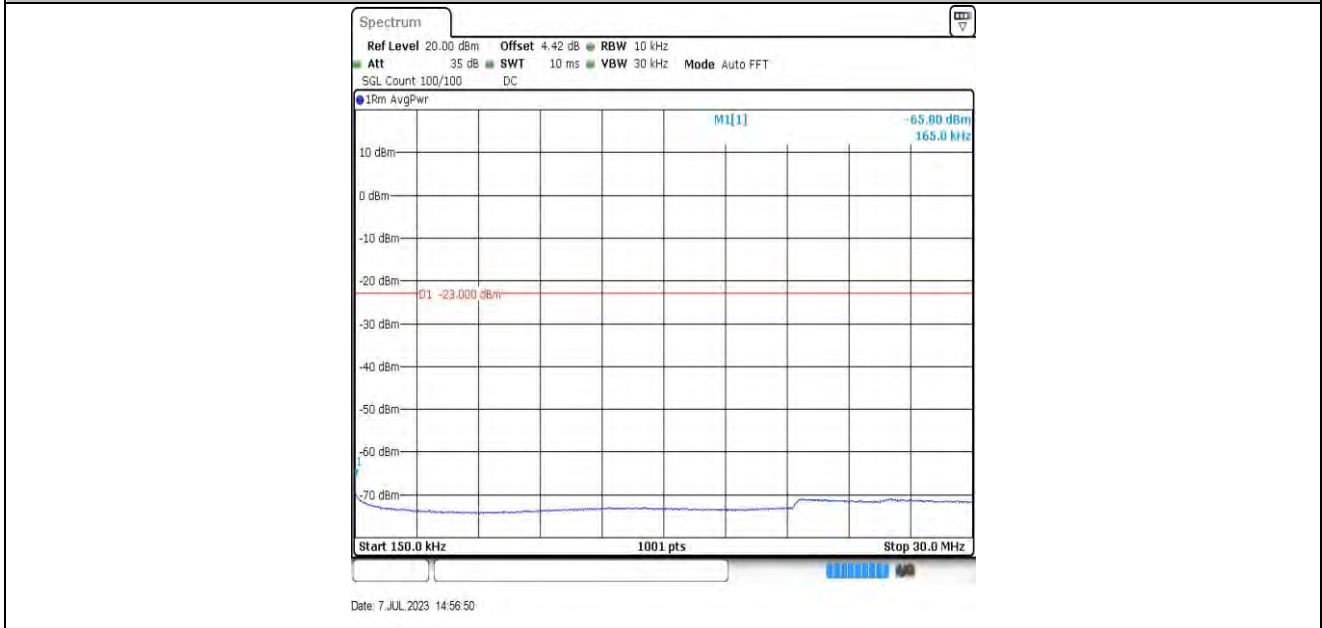


## Conducted Spurious Emission

### Test Graphs



20MHz-20MHz-132072-132270



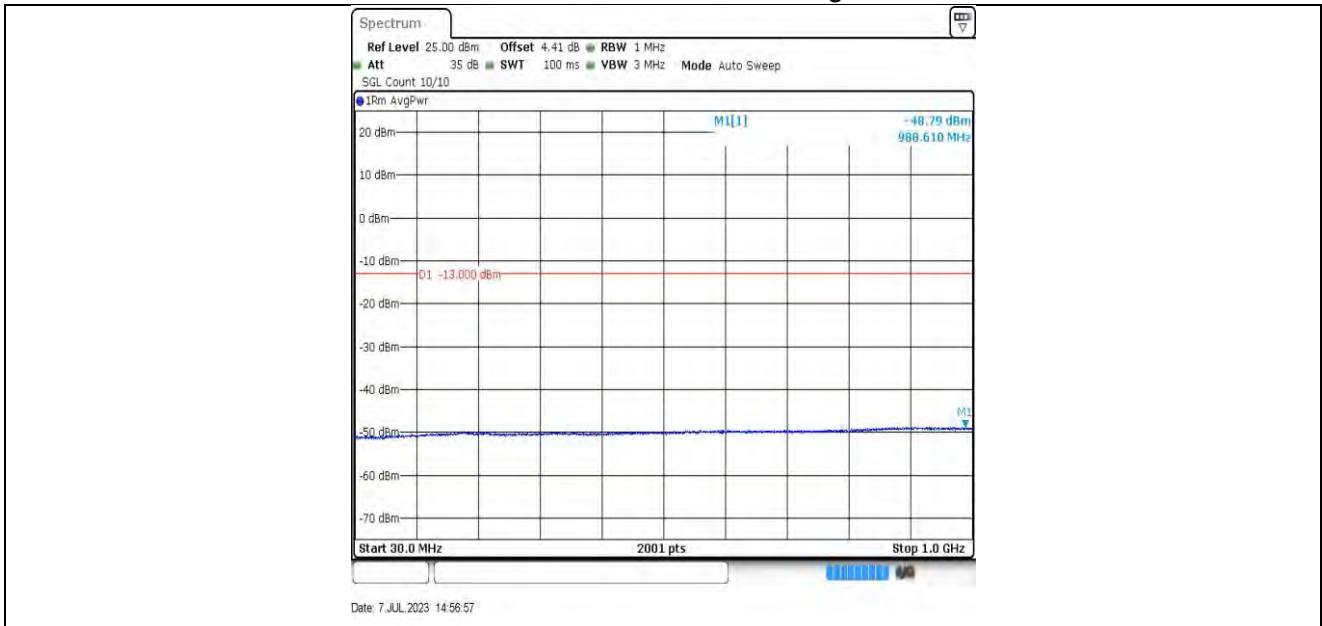
20MHz-20MHz-132072-132270



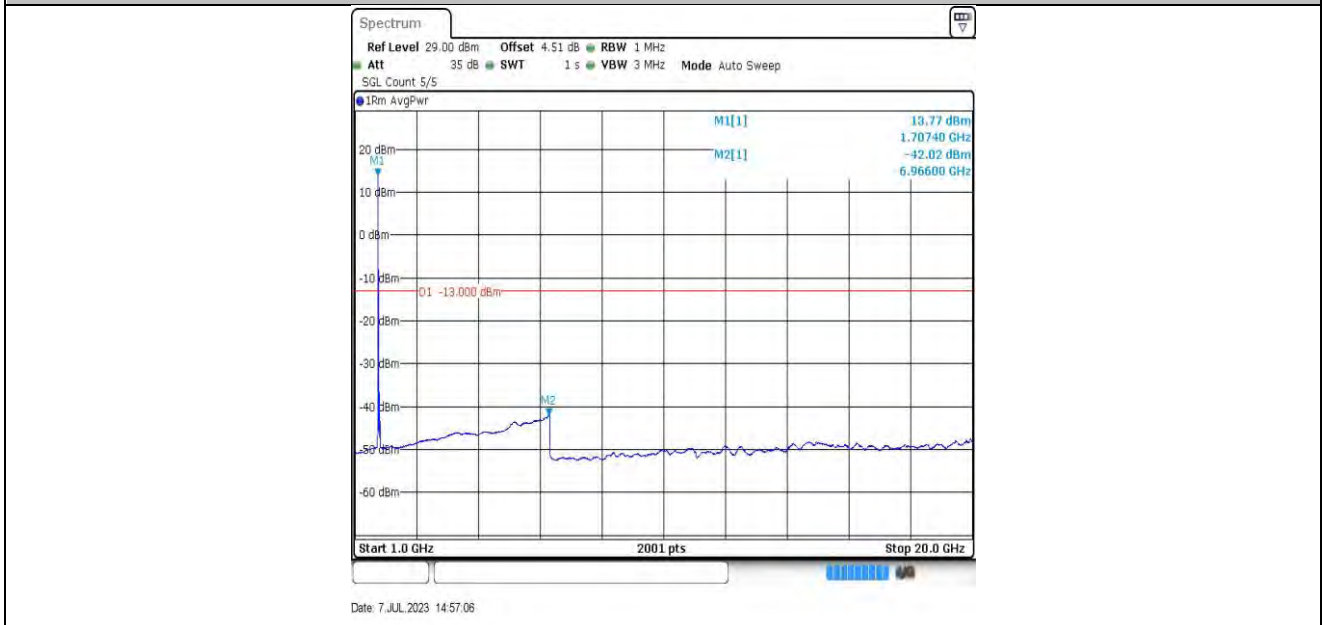
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20MHz-20MHz-132072-132270



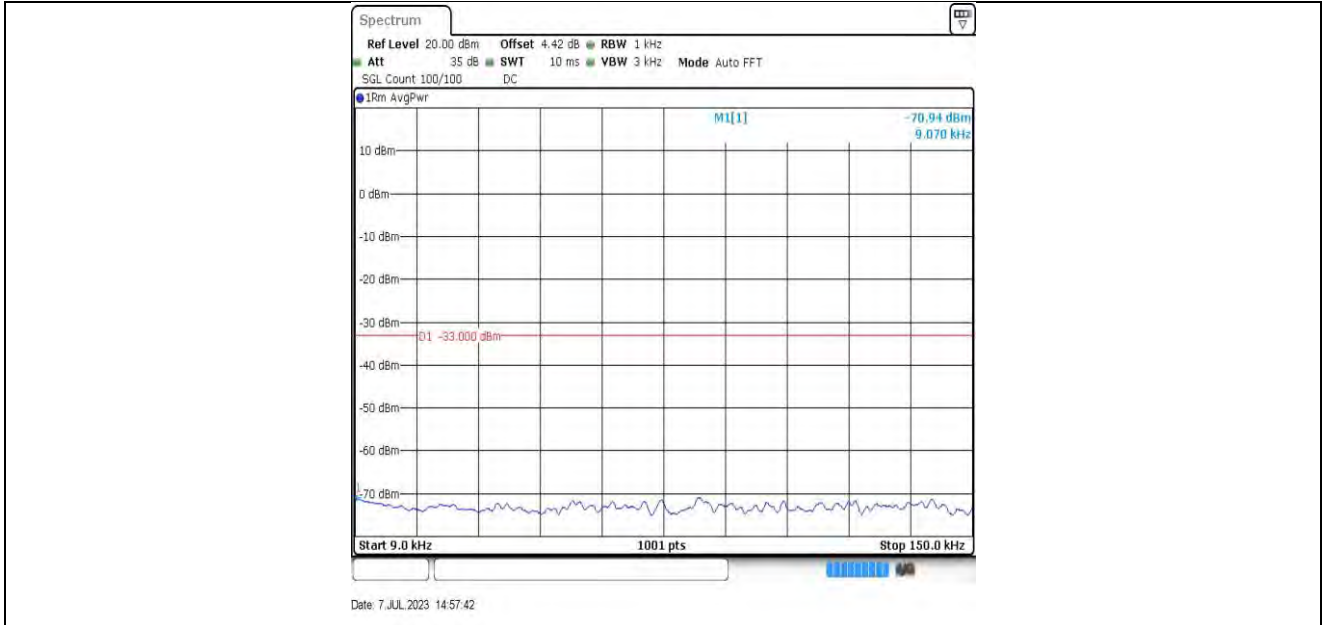
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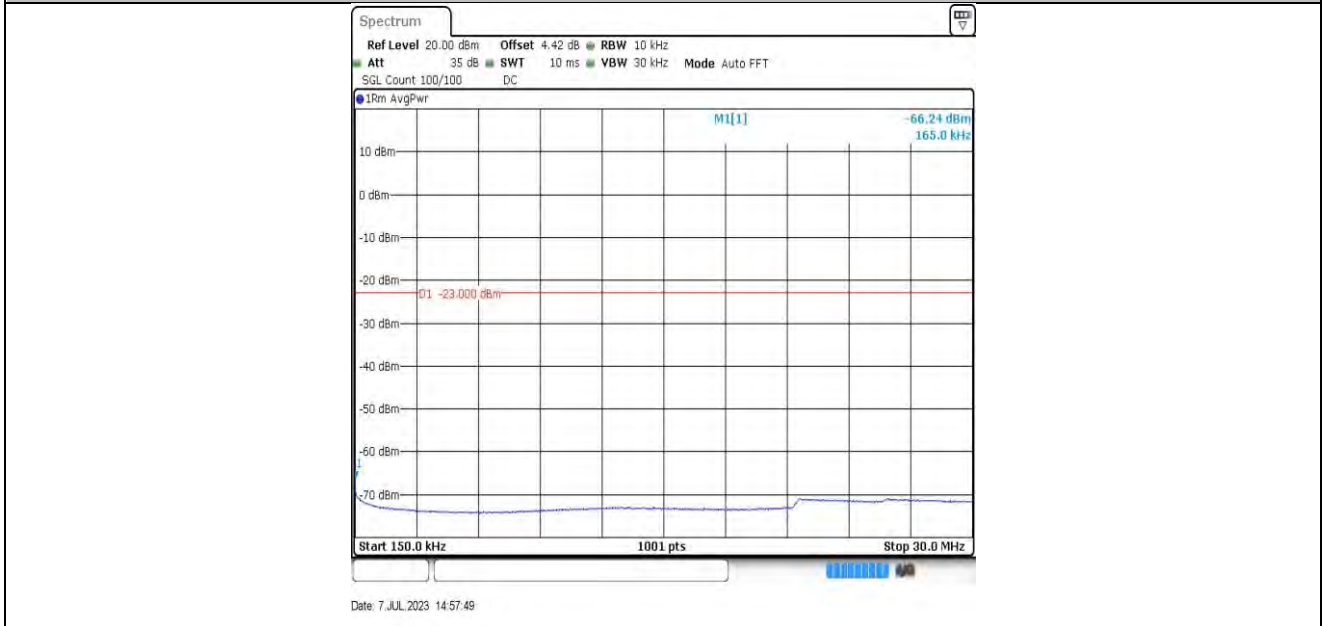
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20MHz-20MHz-132323-132521



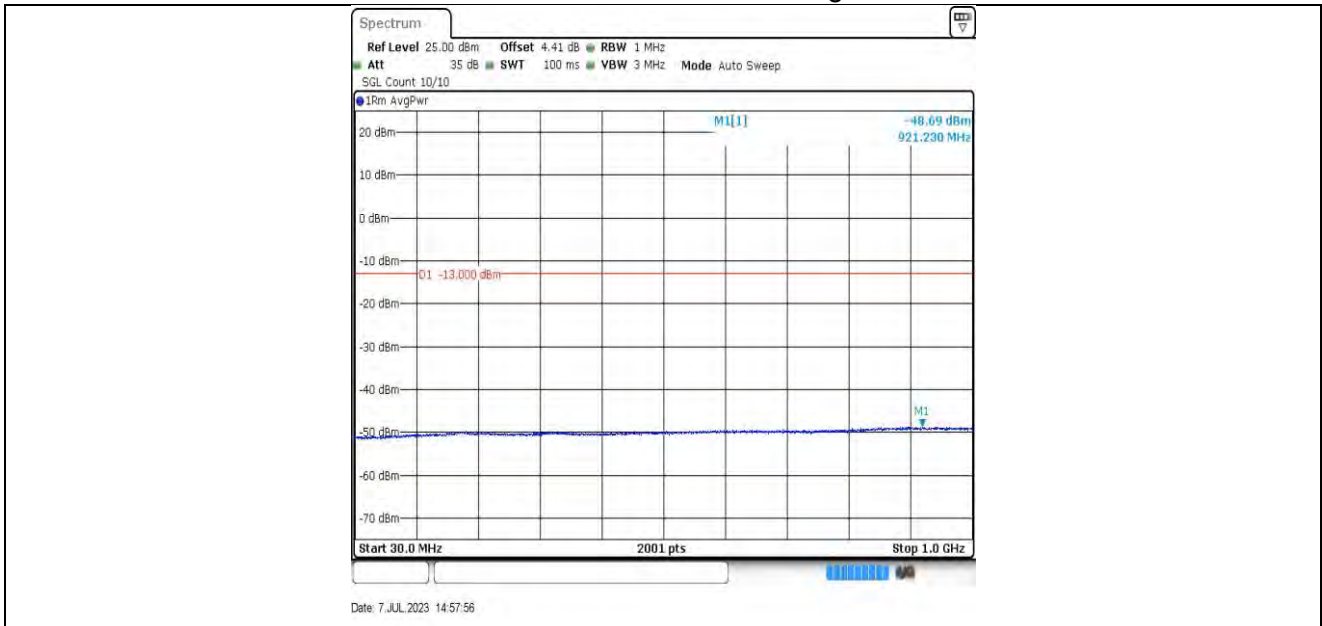
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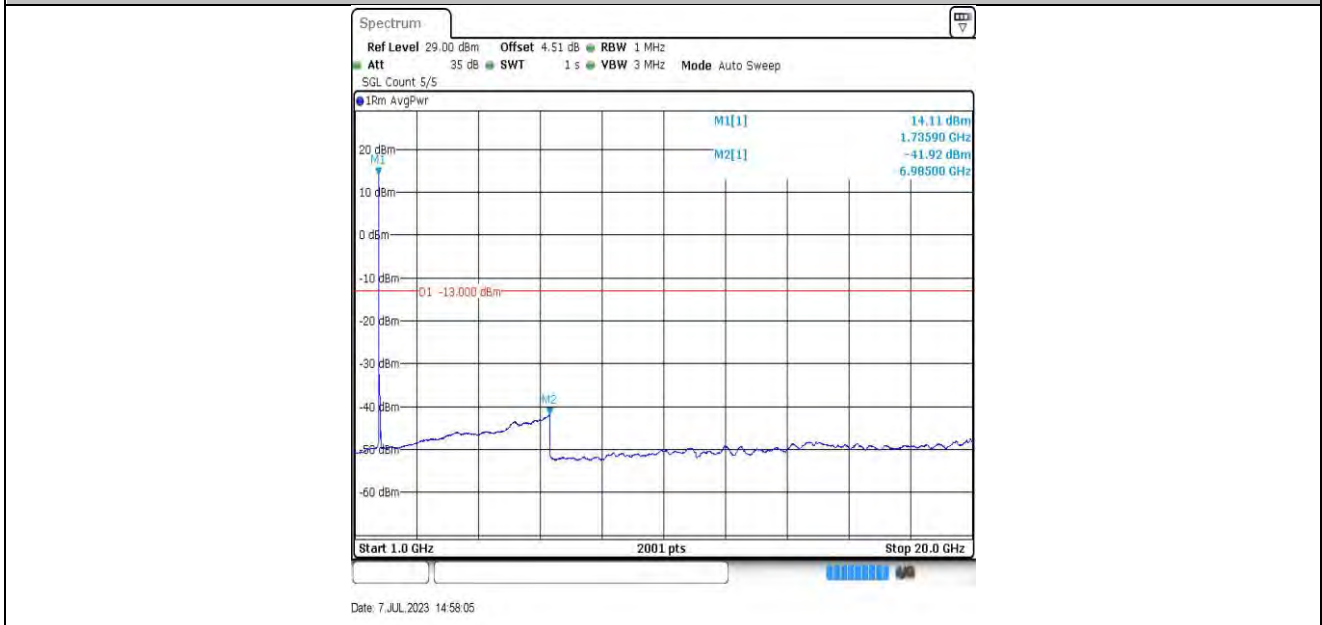
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20MHz-20MHz-132323-132521



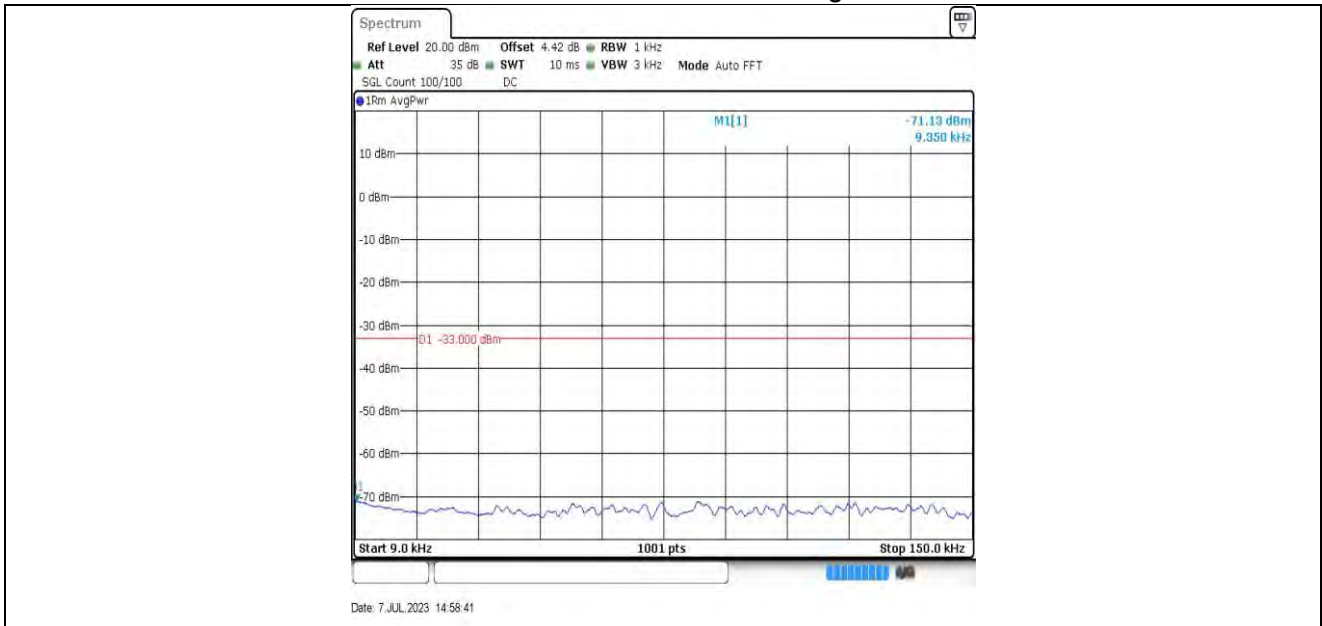
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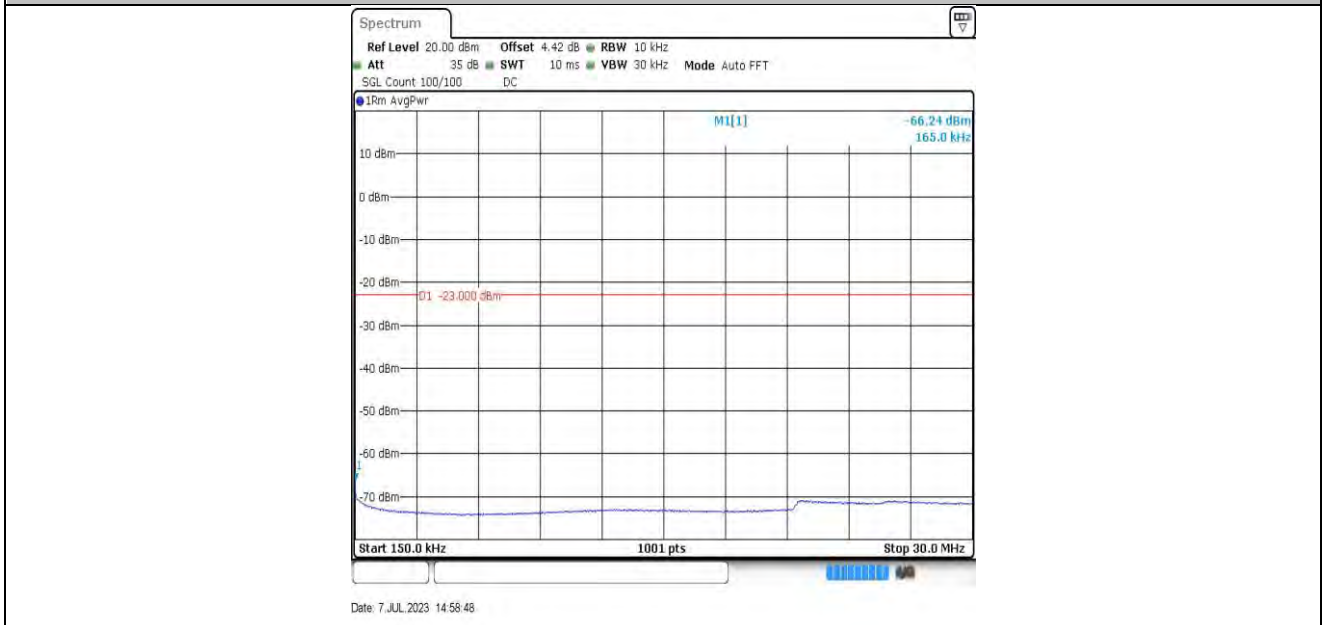
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20MHz-20MHz-132374-132572



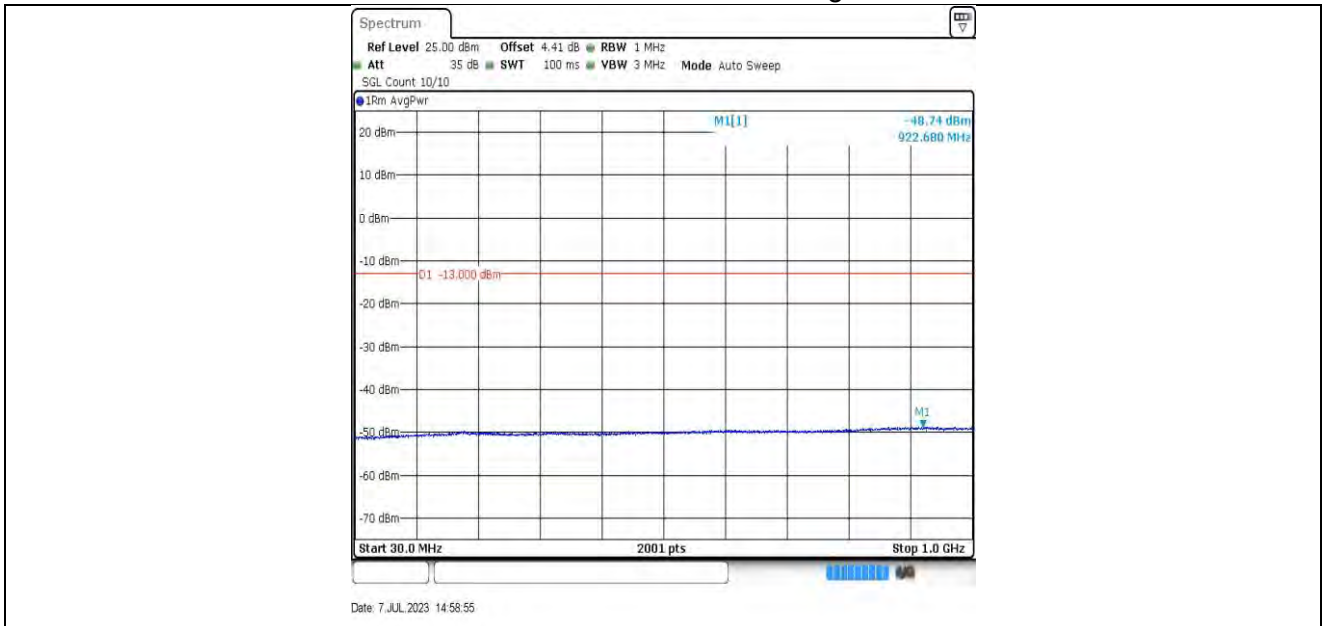
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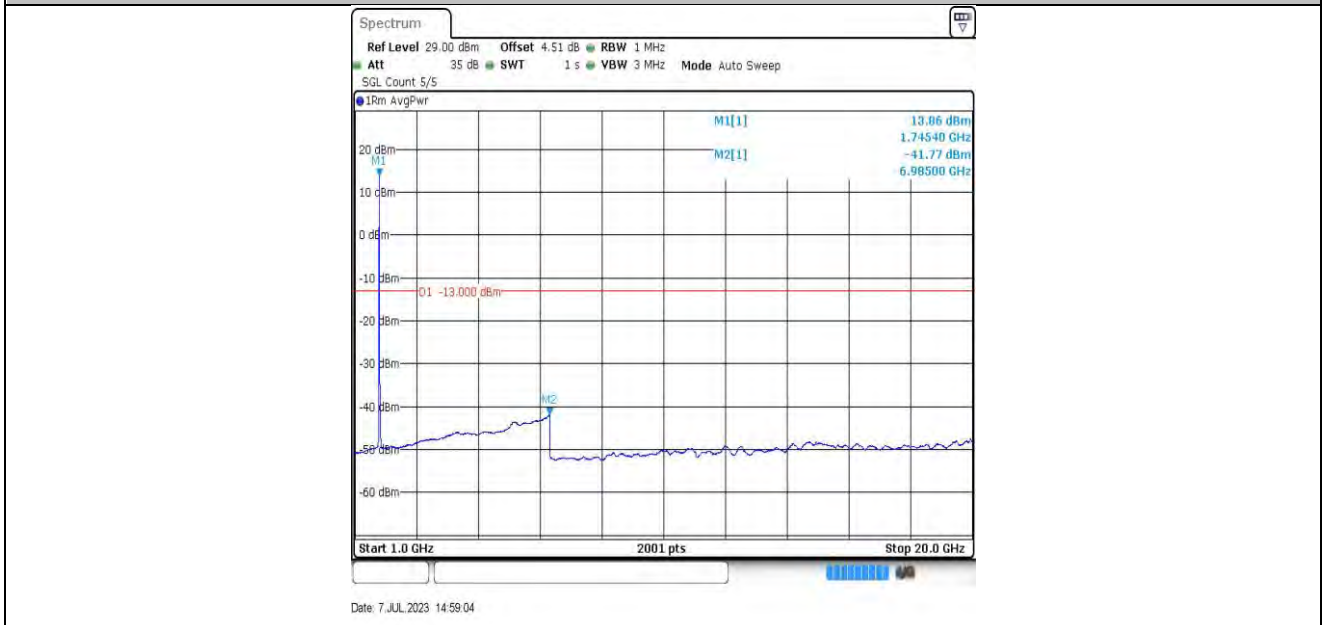
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20MHz-20MHz-132374-132572



20MHz-20MHz-132374-132572



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## Field Strength of Spurious Radiation

Test Band = LTE Band 66C\_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.25	66.97	-48.38	28.67	-48.00	-13.00	35.00	Horizontal
2	10312.5	40.96	-41.16	38.78	-56.68	-13.00	43.68	Horizontal
3	5106.27	42.81	-47.82	31.76	-68.52	-13.00	55.52	Horizontal
4	6808.36	42.22	-46.88	35.18	-64.74	-13.00	51.74	Horizontal
5	8510.45	39.79	-44.25	36.92	-62.80	-13.00	49.80	Horizontal
6	11914.63	35.86	-39.90	39.22	-60.09	-13.00	47.09	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.25	71.67	-48.38	28.67	-43.30	-13.00	30.30	Vertical
2	10312.5	41.60	-41.16	38.78	-56.04	-13.00	43.04	Vertical
3	5106.27	43.74	-47.82	31.76	-67.59	-13.00	54.59	Vertical
4	6808.36	42.46	-46.88	35.18	-64.50	-13.00	51.50	Vertical
5	8510.45	40.06	-44.25	36.92	-62.53	-13.00	49.53	Vertical
6	11914.63	36.32	-39.90	39.22	-59.63	-13.00	46.63	Vertical



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**Test Band = LTE Band 66C\_ TM1**

**Test Channel = Mid Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	10312.5	42.06	-41.16	38.78	-55.58	-13.00	42.58	Horizontal
2	3472.38	73.90	-48.32	28.69	-40.99	-13.00	27.99	Horizontal
3	5208.57	44.25	-47.88	32.00	-66.89	-13.00	53.89	Horizontal
4	6944.76	41.76	-46.67	35.48	-64.69	-13.00	51.69	Horizontal
5	8680.95	40.47	-44.09	37.15	-61.73	-13.00	48.73	Horizontal
6	12153.33	37.04	-39.73	39.11	-58.84	-13.00	45.84	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	10312.5	41.50	-41.16	38.78	-56.14	-13.00	43.14	Vertical
2	3472.38	78.11	-48.32	28.69	-36.78	-13.00	23.78	Vertical
3	5208.57	44.33	-47.88	32.00	-66.81	-13.00	53.81	Vertical
4	6944.76	43.38	-46.67	35.48	-63.07	-13.00	50.07	Vertical
5	8680.95	39.99	-44.09	37.15	-62.21	-13.00	49.21	Vertical
6	12153.33	36.61	-39.73	39.11	-59.27	-13.00	46.27	Vertical



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**Test Band = LTE Band 66C\_ TM1**

**Test Channel = High Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3522	66.08	-48.29	28.73	-48.74	-13.00	35.74	Horizontal
2	10312.5	41.71	-41.16	38.78	-55.93	-13.00	42.93	Horizontal
3	6965.16	41.81	-46.65	35.52	-64.57	-13.00	51.57	Horizontal
4	8706.45	39.92	-44.11	37.19	-62.26	-13.00	49.26	Horizontal
5	12189.03	36.42	-39.80	39.09	-59.55	-13.00	46.55	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3522	69.31	-48.29	28.73	-45.51	-13.00	32.51	Vertical
2	10312.5	41.44	-41.16	38.78	-56.20	-13.00	43.20	Vertical
3	5223.87	43.20	-47.86	32.04	-67.88	-13.00	54.88	Vertical
4	6965.16	41.81	-46.65	35.52	-64.57	-13.00	51.57	Vertical
5	8706.45	39.66	-44.11	37.19	-62.52	-13.00	49.52	Vertical
6	12189.03	36.78	-39.80	39.09	-59.19	-13.00	46.19	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) - Pre-amplifier (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
66-66	20MHz-20MHz	QPSK-QPSK	132323-132521	100RB#0-100RB#0	VH	NT	23.30	0.013276	PASS
66-66	20MHz-20MHz	QPSK-QPSK	132323-132521	100RB#0-100RB#0	VL	NT	25.20	0.014359	PASS
66-66	20MHz-20MHz	QPSK-QPSK	132323-132521	100RB#0-100RB#0	VN	NT	29.50	0.016809	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
66-66	20MHz-20MHz	QPSK-QPSK	132323-132521	100RB#0-100RB#0	NV	50	23.80	0.013561	PASS
66-66	20MHz-20MHz	QPSK-QPSK	132323-132521	100RB#0-100RB#0	NV	40	24.80	0.014131	PASS
66-66	20MHz-20MHz	QPSK-QPSK	132323-132521	100RB#0-100RB#0	NV	30	21.50	0.012251	PASS
66-66	20MHz-20MHz	QPSK-QPSK	132323-132521	100RB#0-100RB#0	NV	20	31.20	0.017778	PASS
66-66	20MHz-20MHz	QPSK-QPSK	132323-132521	100RB#0-100RB#0	NV	10	21.60	0.012308	PASS
66-66	20MHz-20MHz	QPSK-QPSK	132323-132521	100RB#0-100RB#0	NV	0	23.20	0.013219	PASS
66-66	20MHz-20MHz	QPSK-QPSK	132323-132521	100RB#0-100RB#0	NV	-10	27.00	0.015385	PASS
66-66	20MHz-20MHz	QPSK-QPSK	132323-132521	100RB#0-100RB#0	NV	-20	28.20	0.016068	PASS
66-66	20MHz-20MHz	QPSK-QPSK	132323-132521	100RB#0-100RB#0	NV	-30	21.30	0.012137	PASS

---End of Attachment---



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