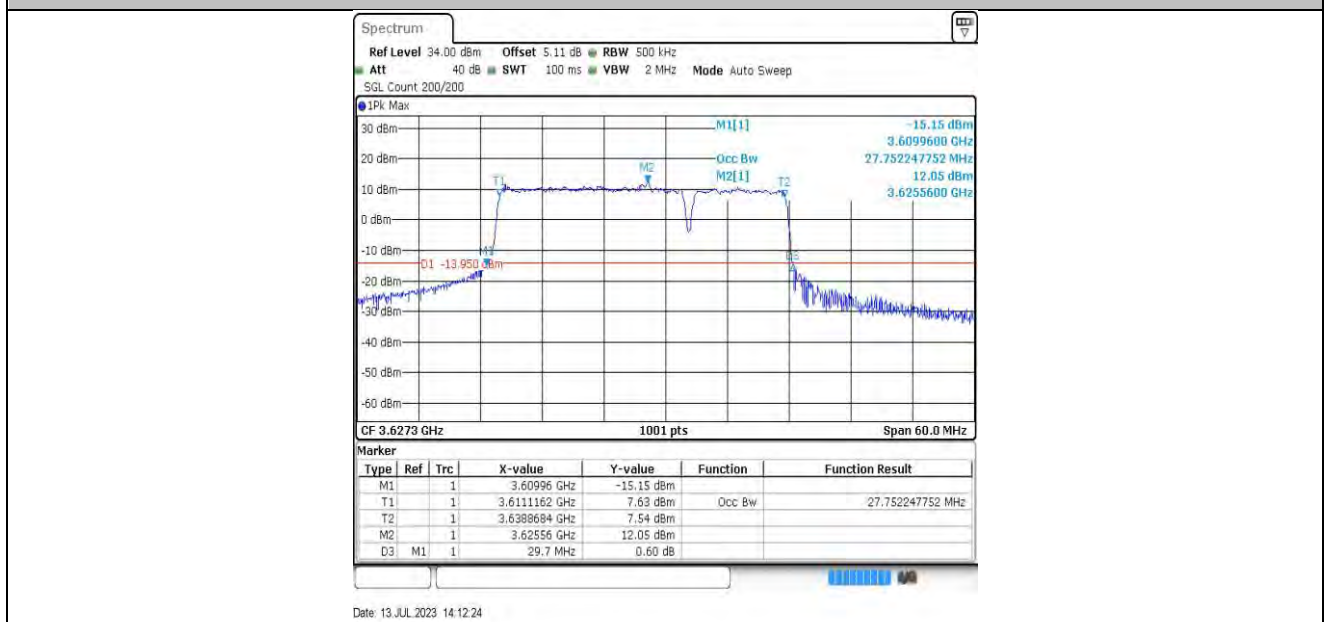




20MHz-10MHz-55340-55484 16QAM-16QAM



20MHz-10MHz-55941-56085 16QAM-16QAM



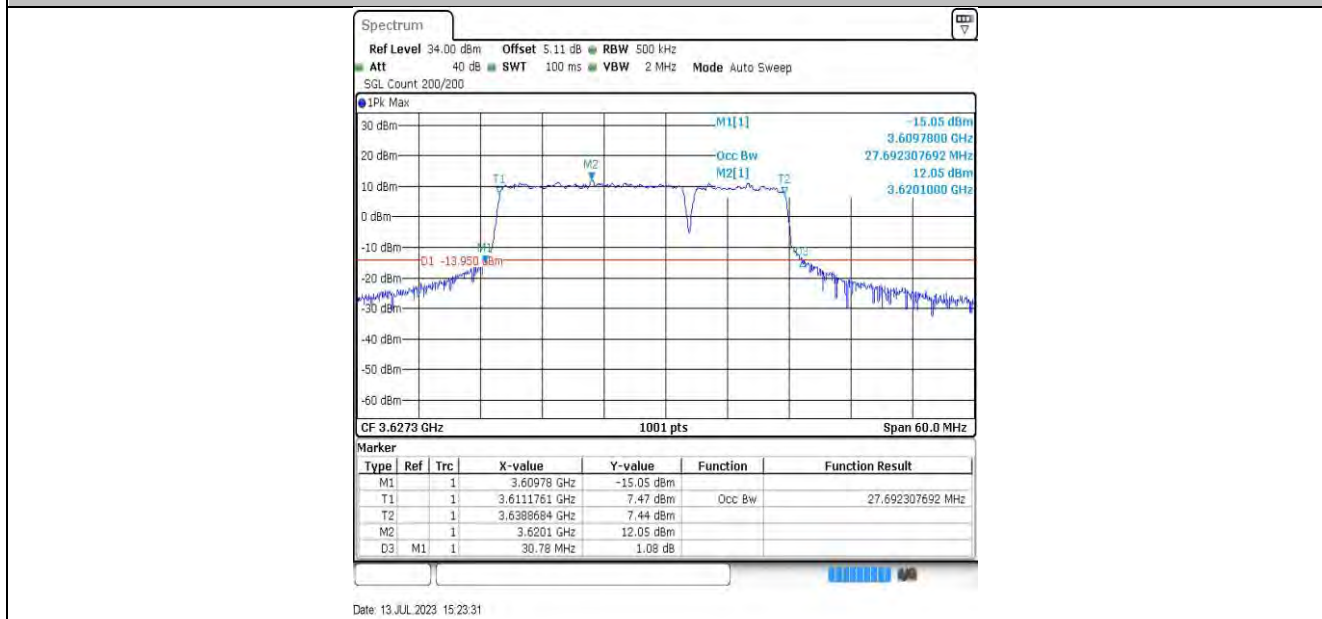
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20MHz-10MHz-55340-55484 64QAM-64QAM



20MHz-10MHz-55941-56085 64QAM-64QAM



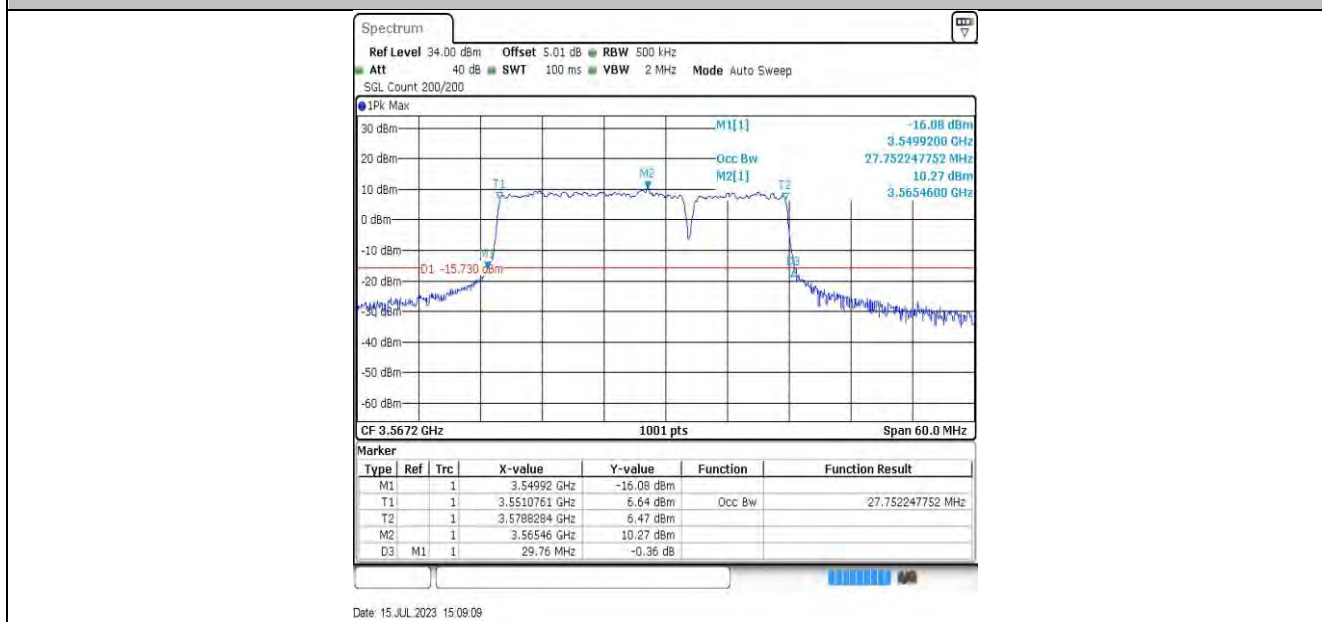
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20MHz-10MHz-56541-56685 64QAM-64QAM



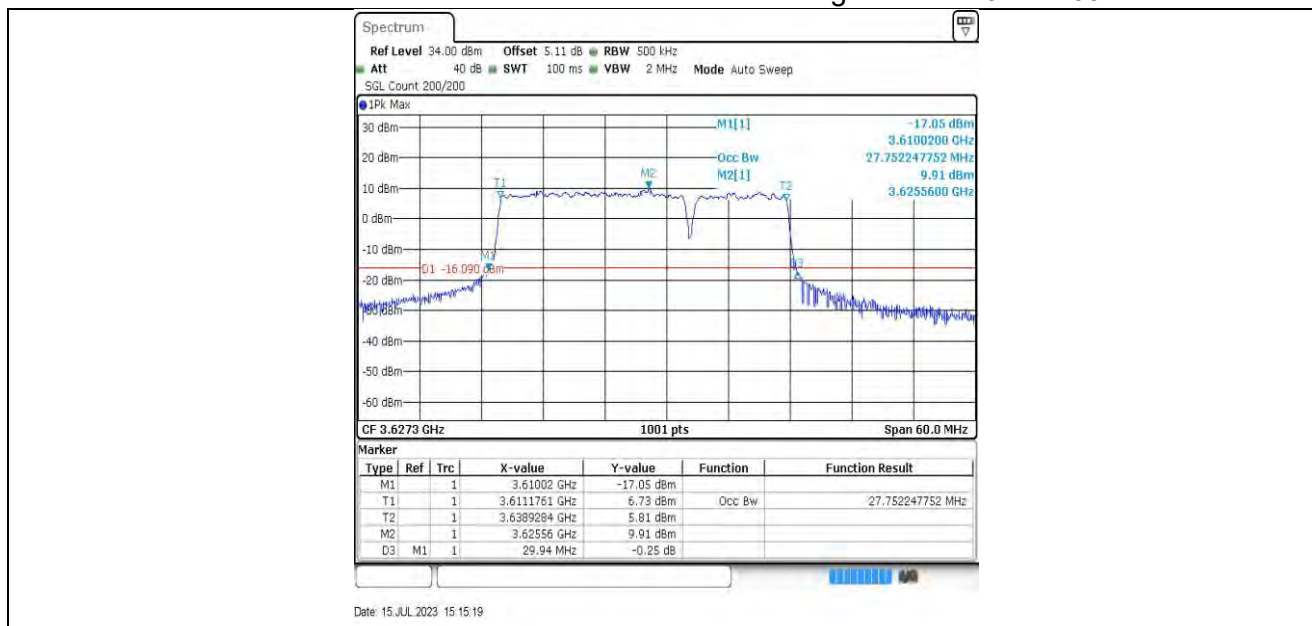
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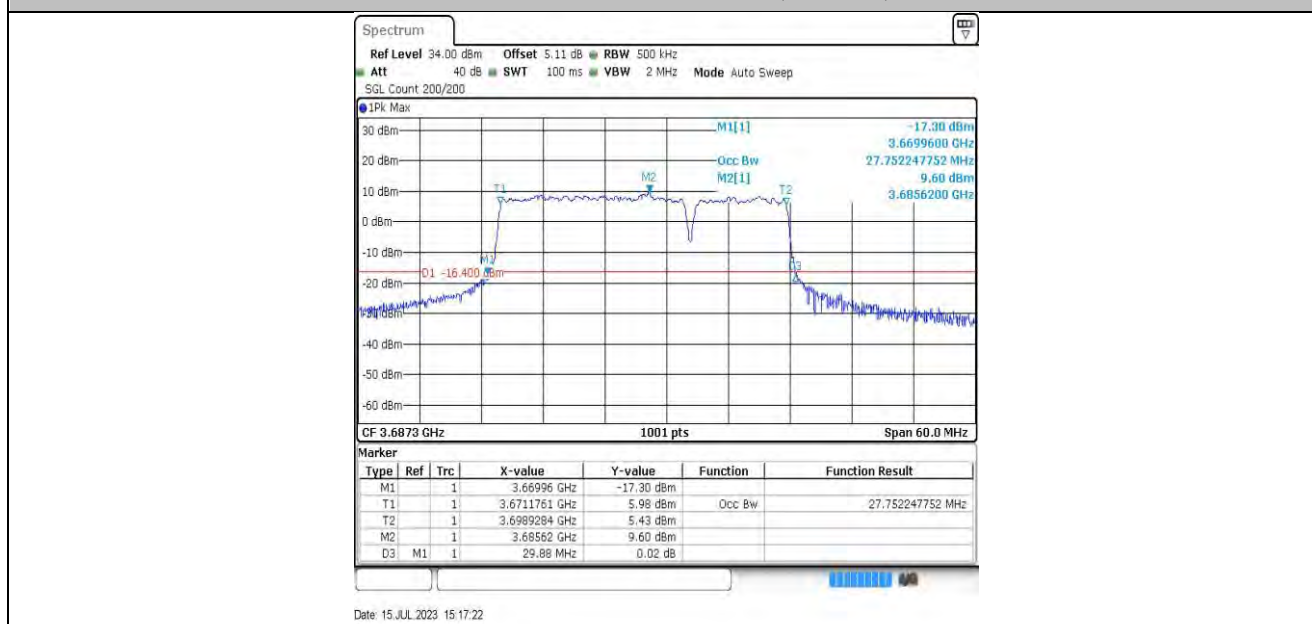
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20MHz-10MHz-55941-56085 256QAM-256QAM



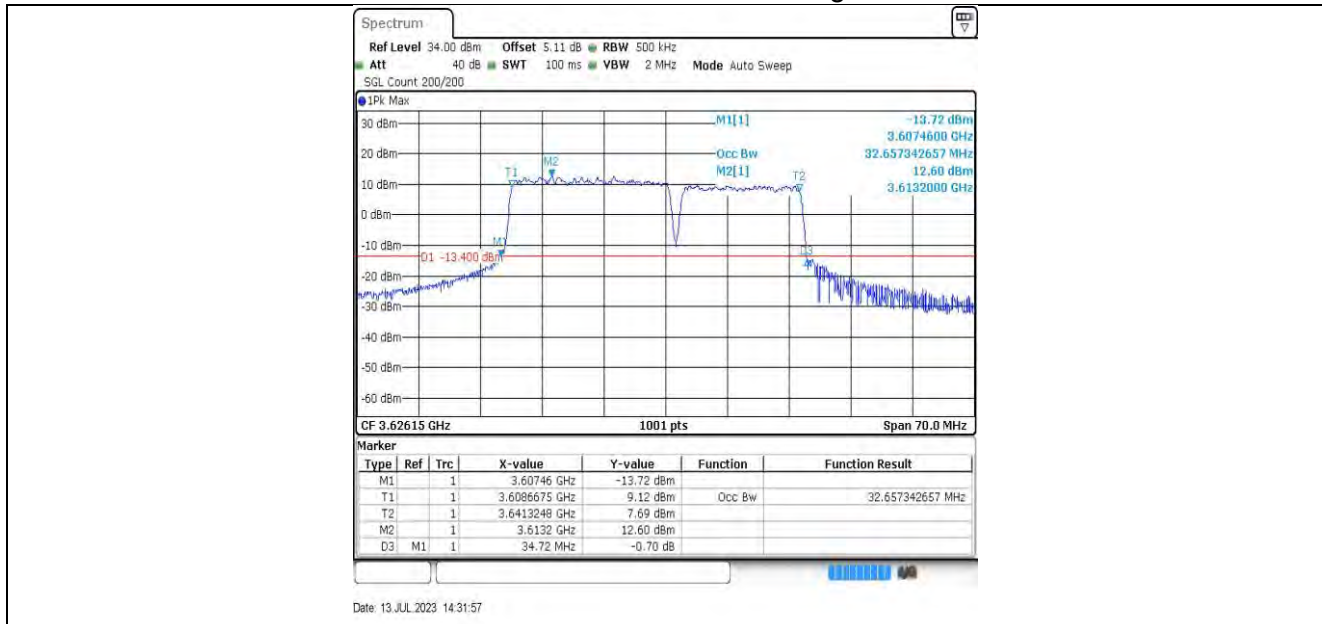
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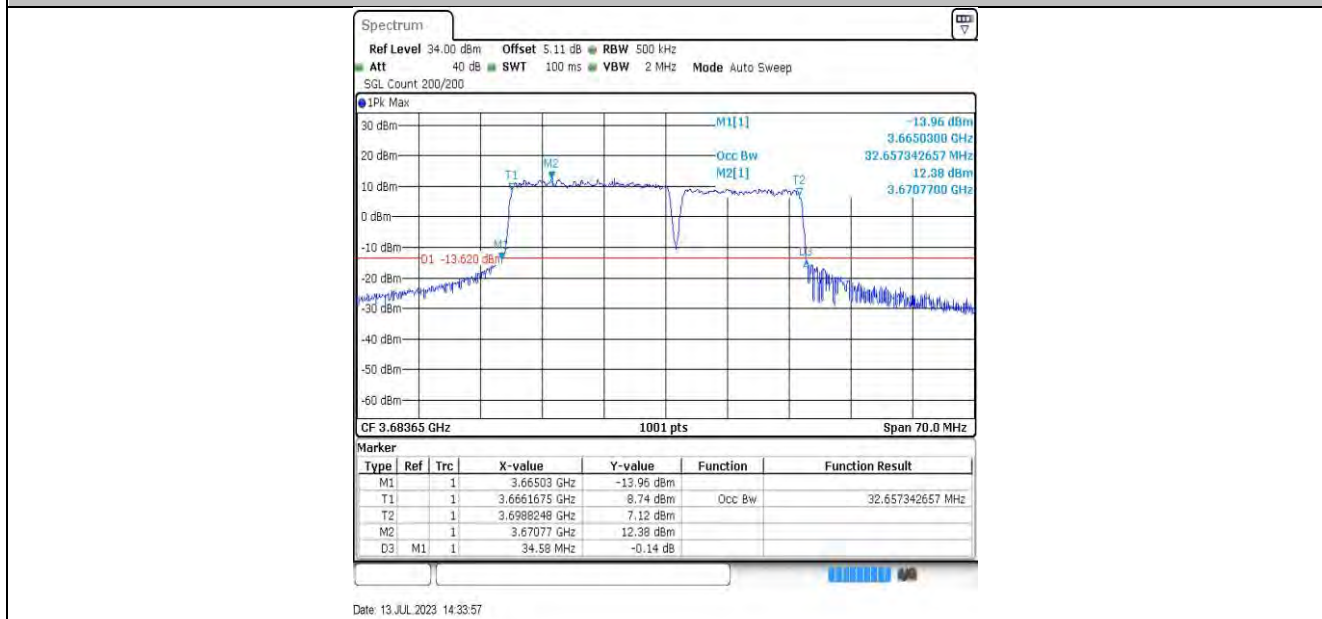
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20MHz-15MHz-55916-56087 QPSK-QPSK



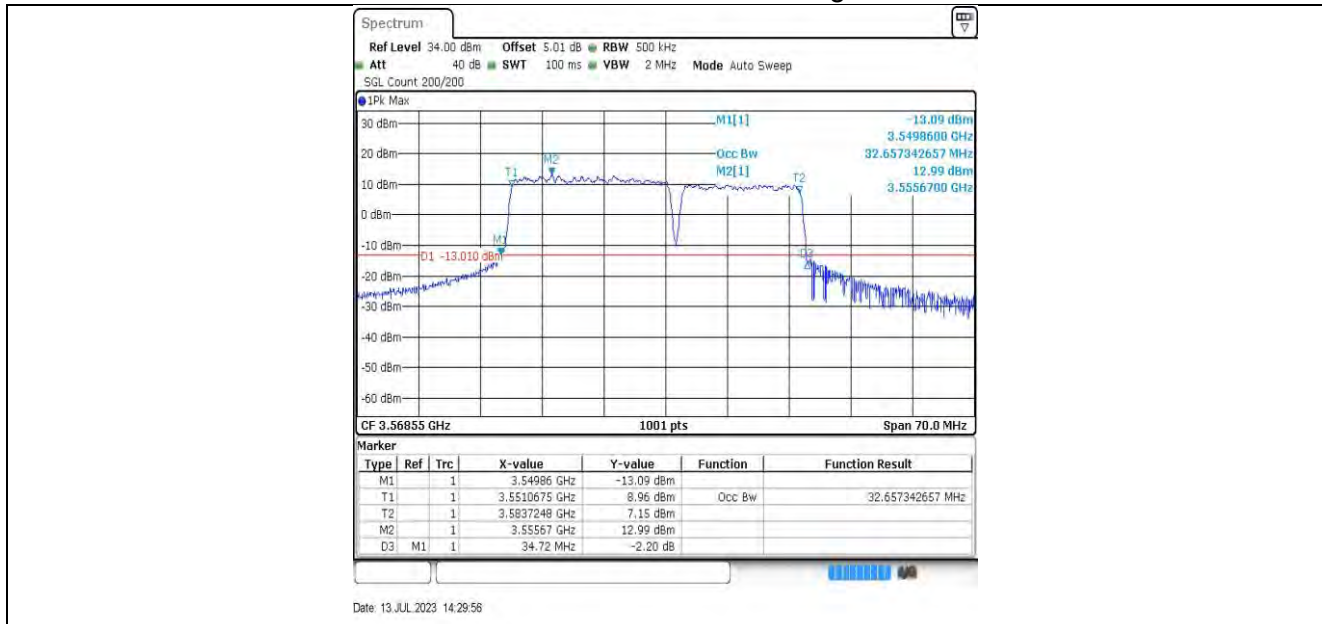
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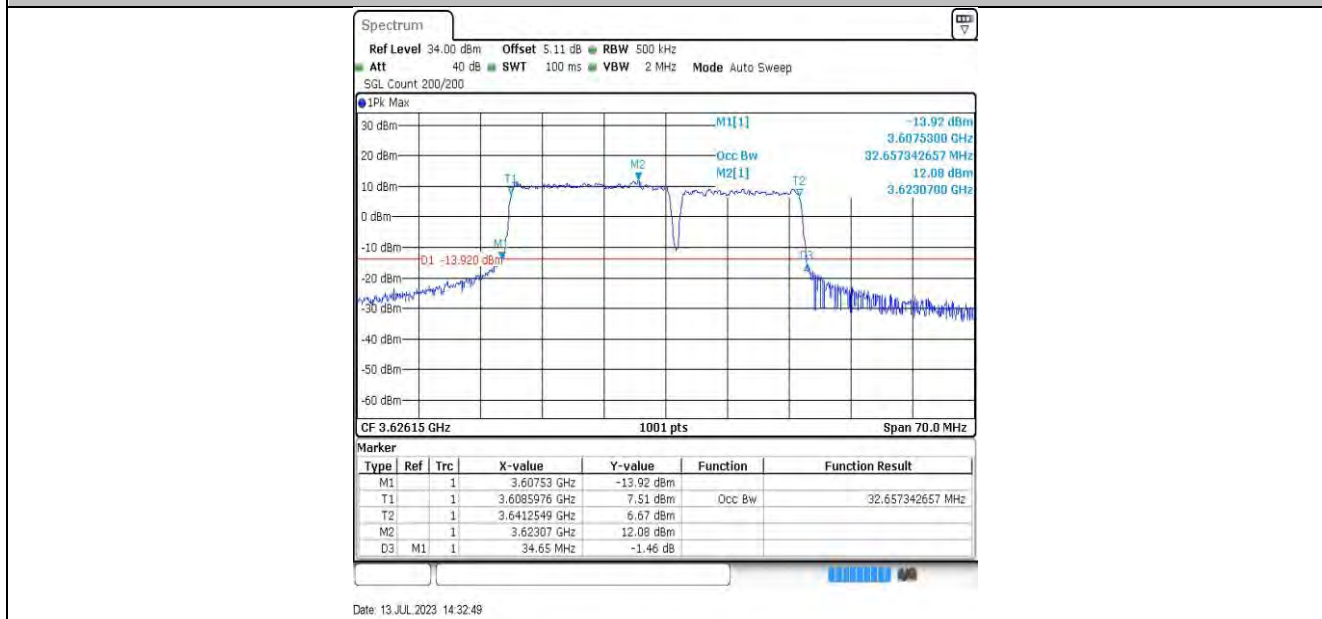
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20MHz-15MHz-55340-55511 QPSK-QPSK



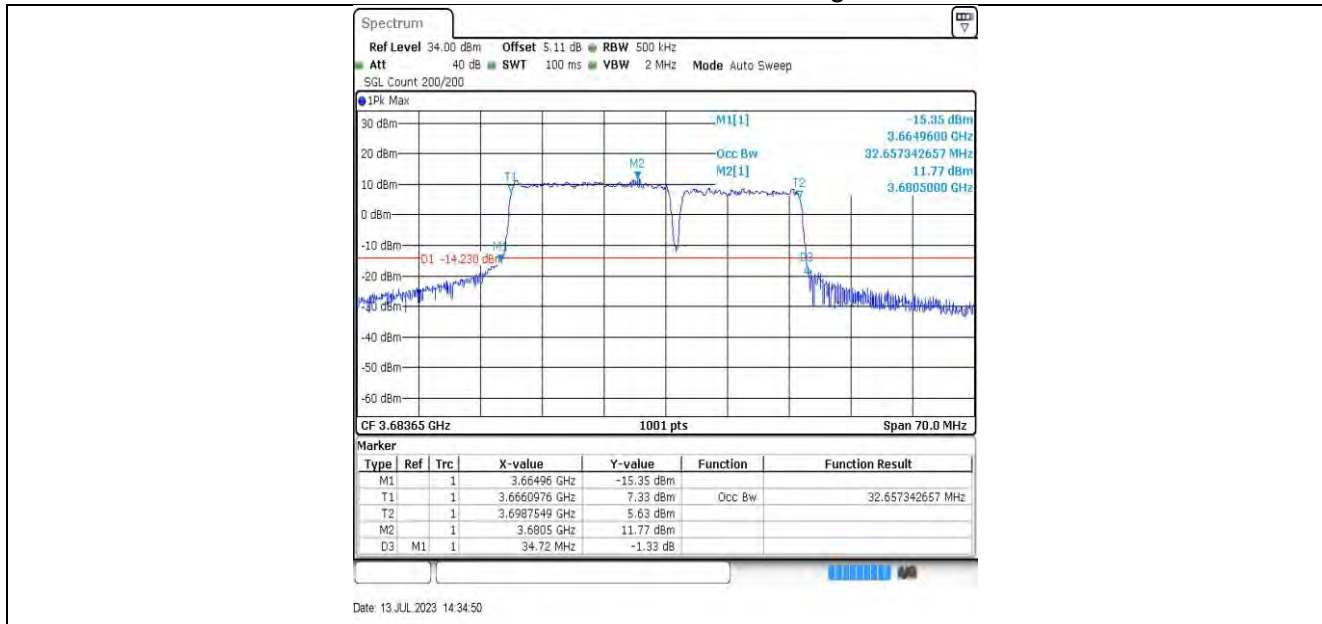
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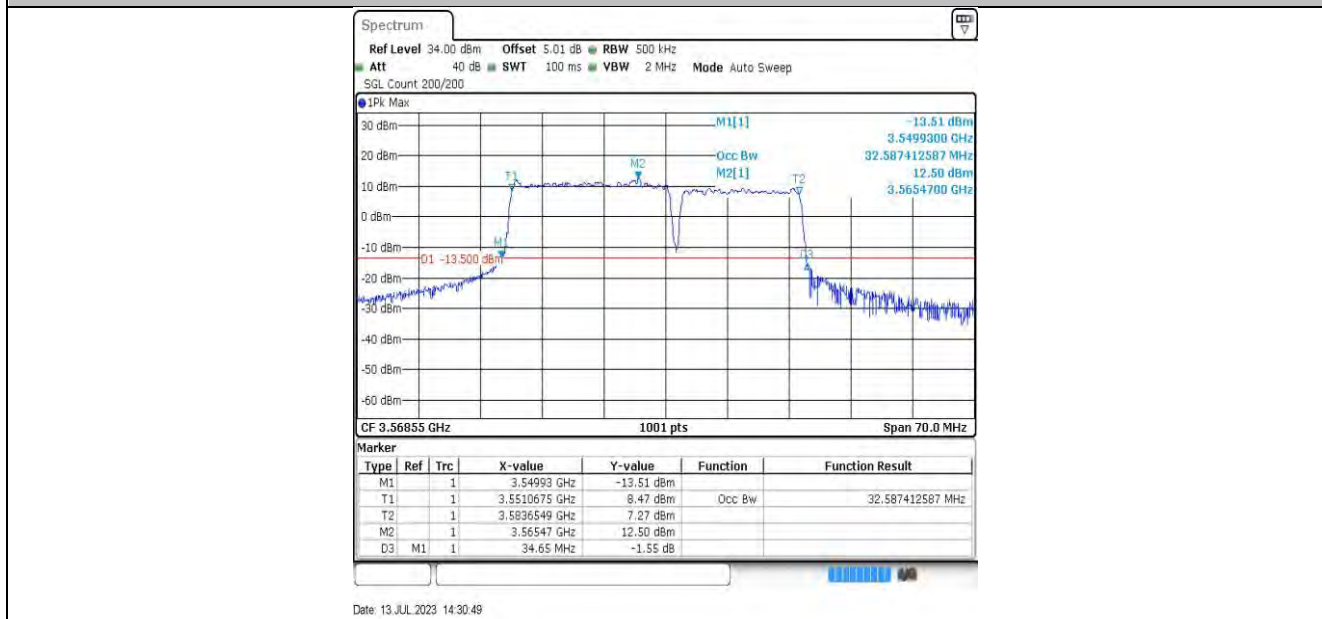
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20MHz-15MHz-56491-56662 16QAM-16QAM



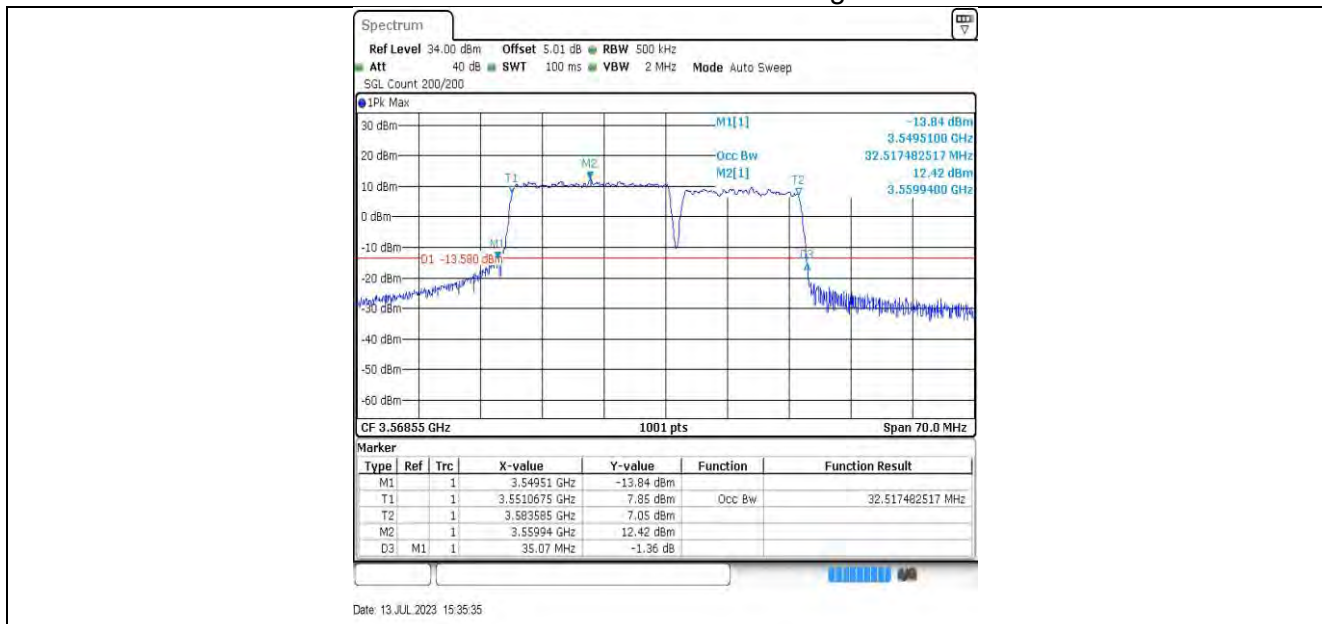
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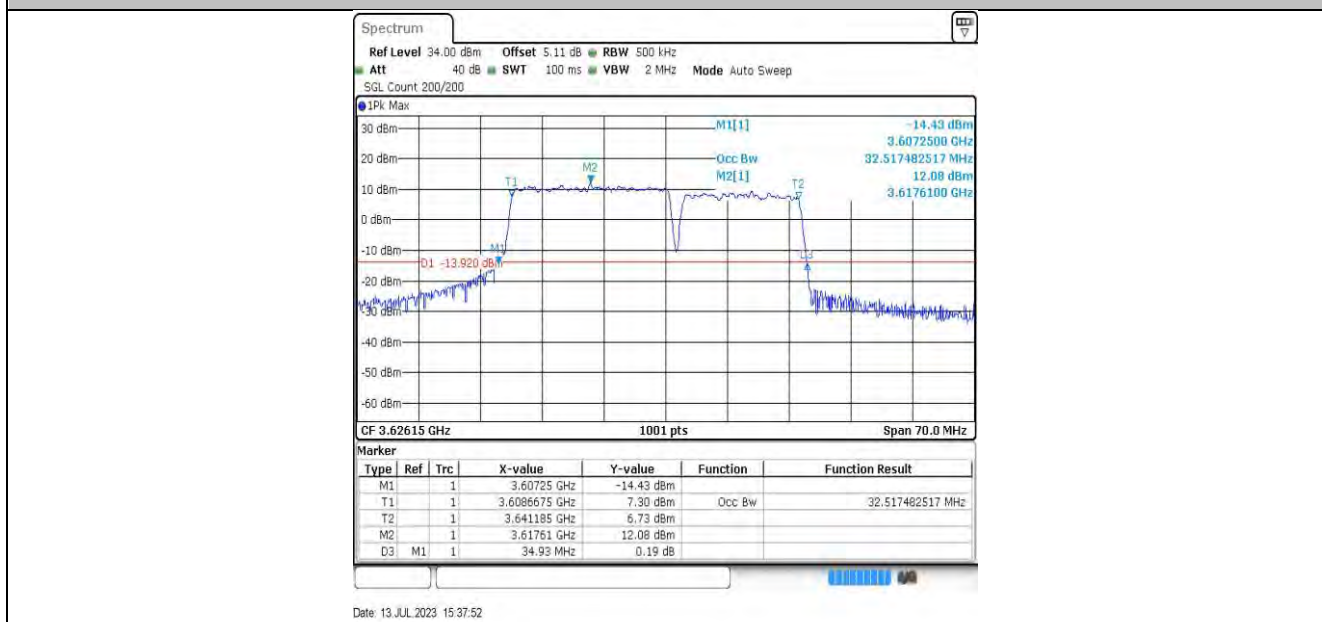
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20MHz-15MHz-55340-55511 64QAM-64QAM



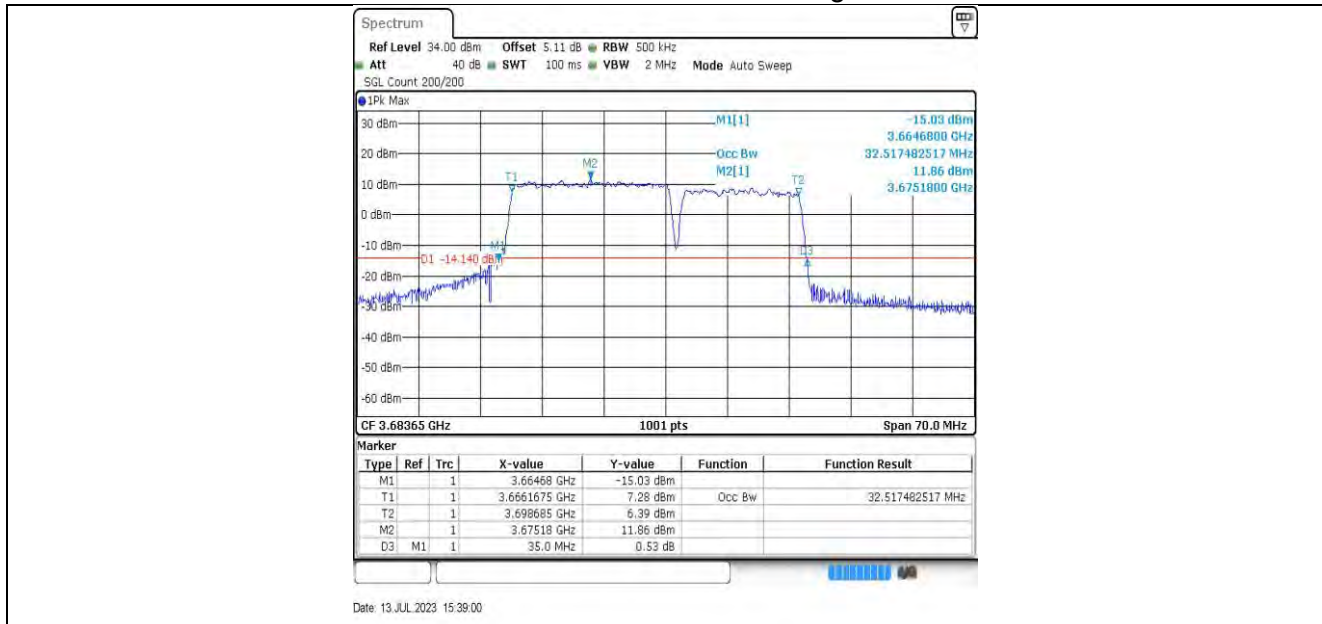
20MHz-15MHz-55916-56087 64QAM-64QAM



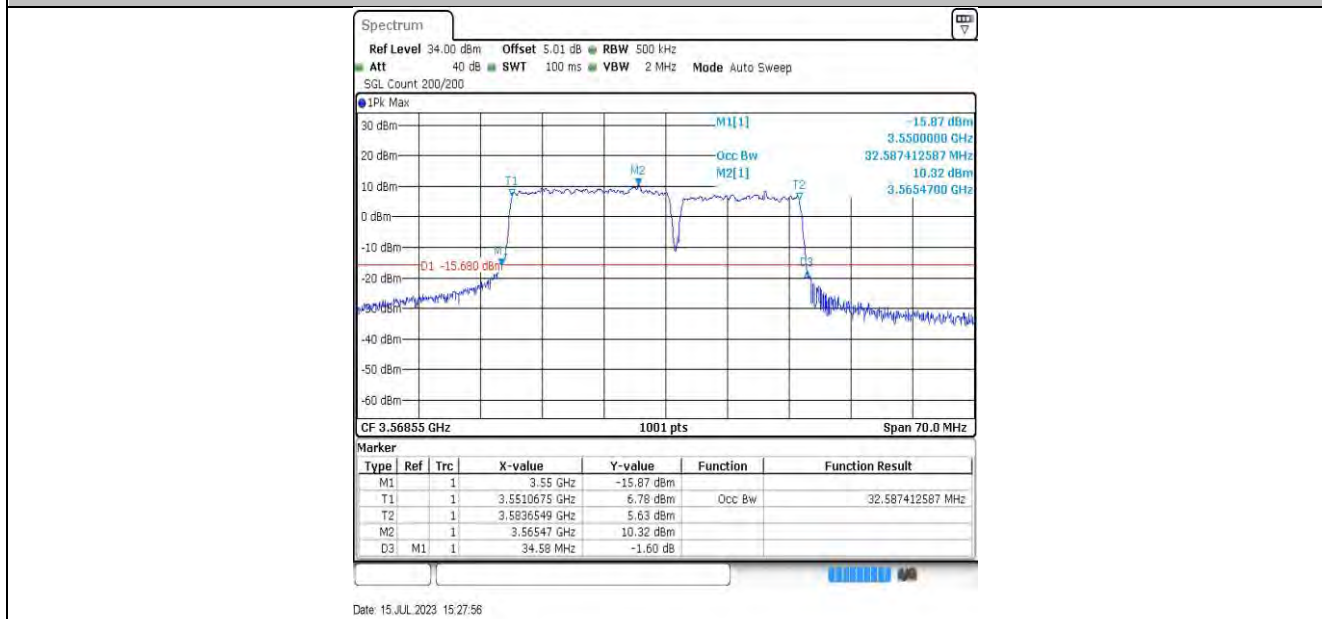
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20MHz-15MHz-56491-56662 64QAM-64QAM



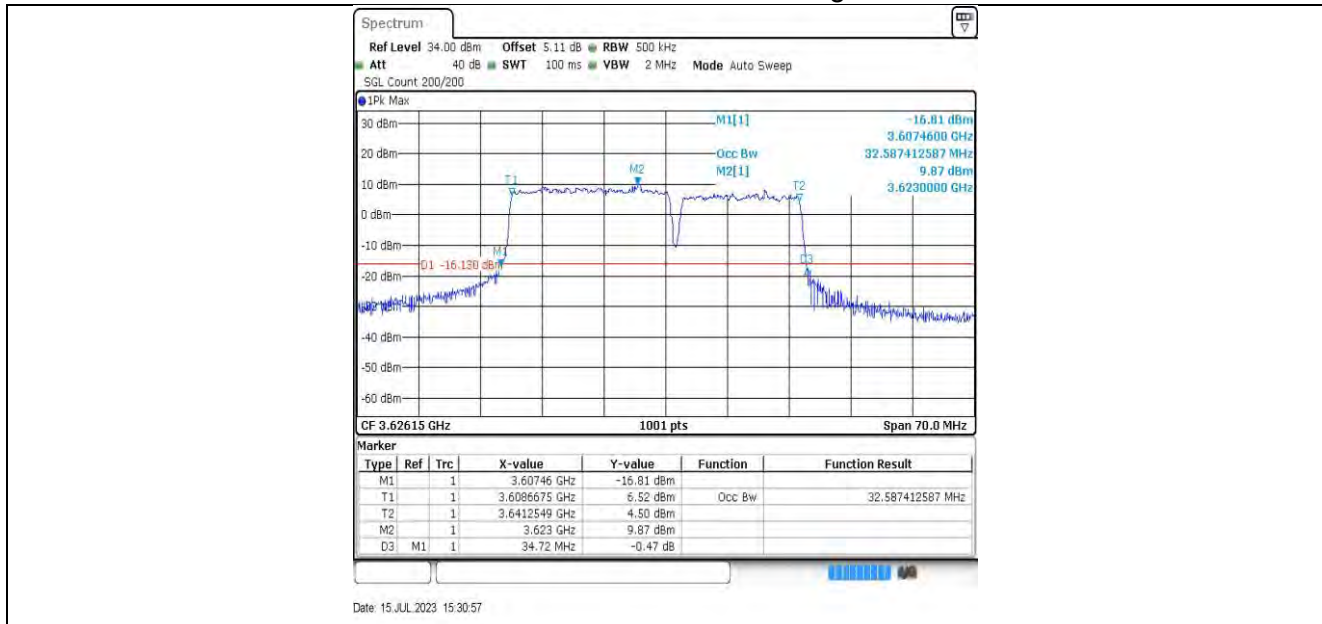
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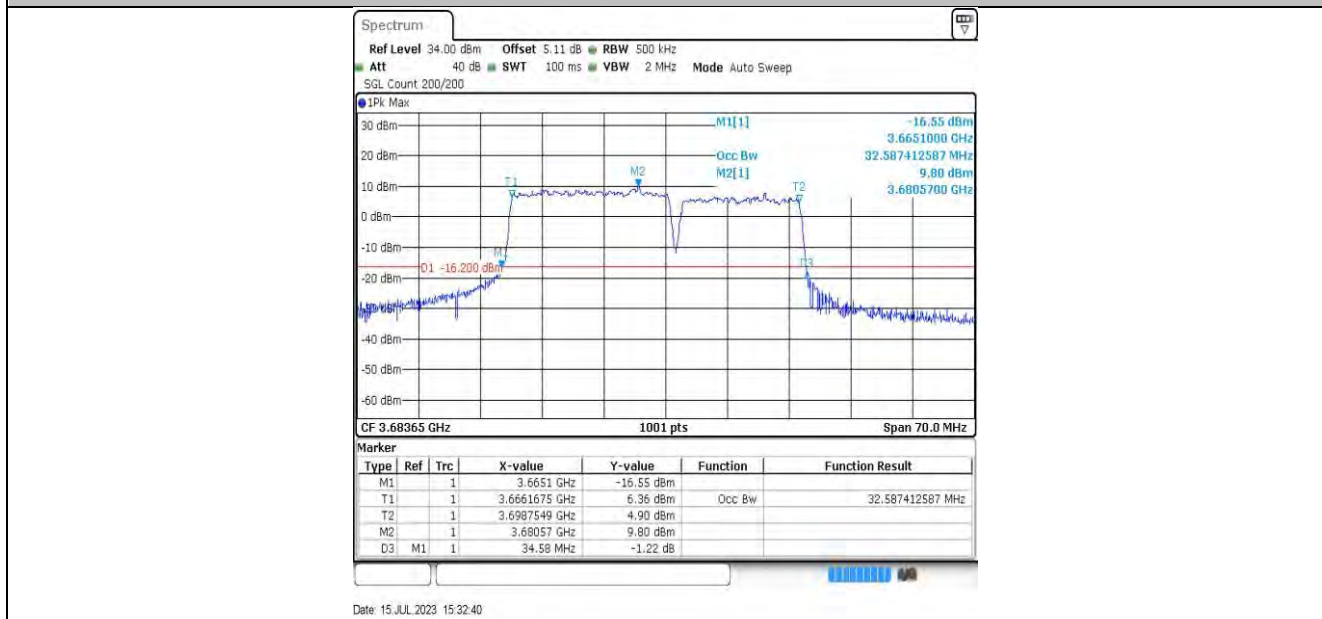
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20MHz-15MHz-55916-56087 256QAM-256QAM



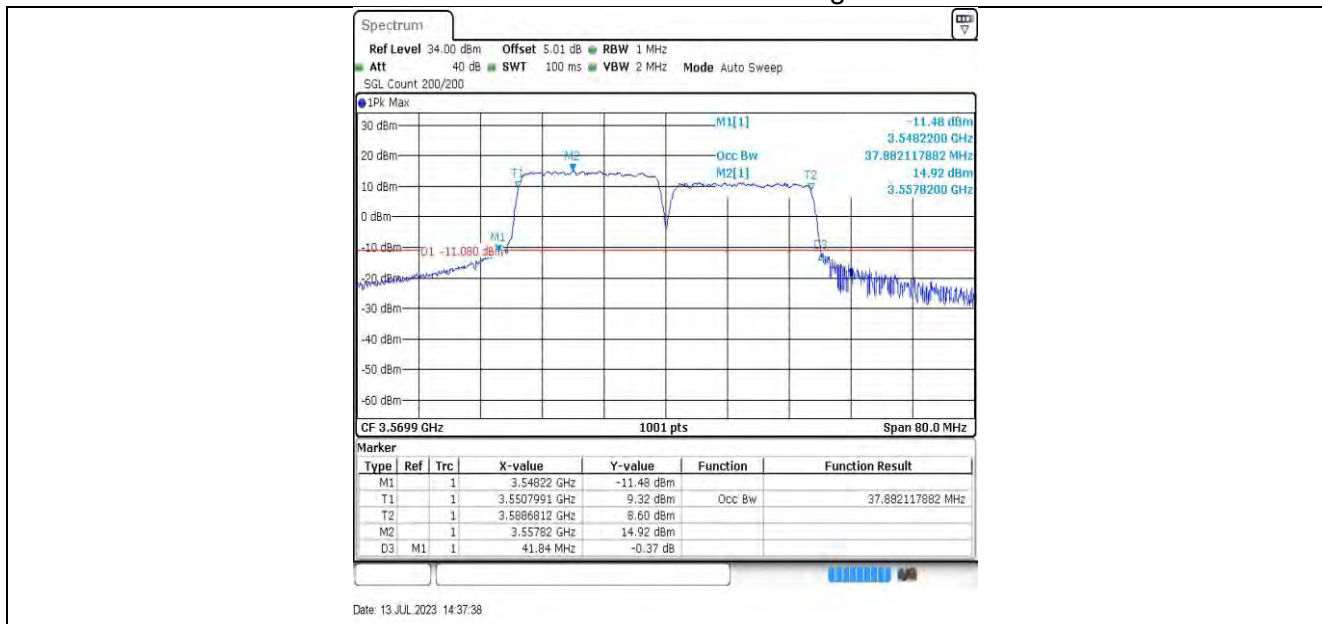
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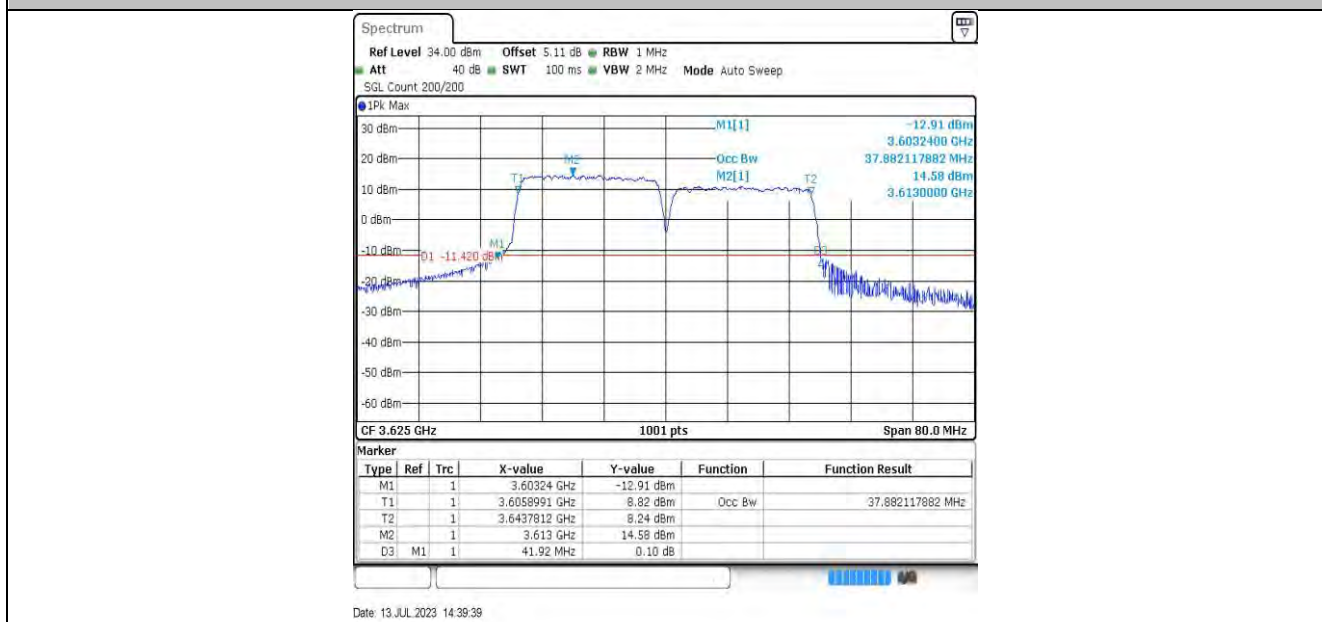
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20MHz-20MHz-55340-55538 QPSK-QPSK



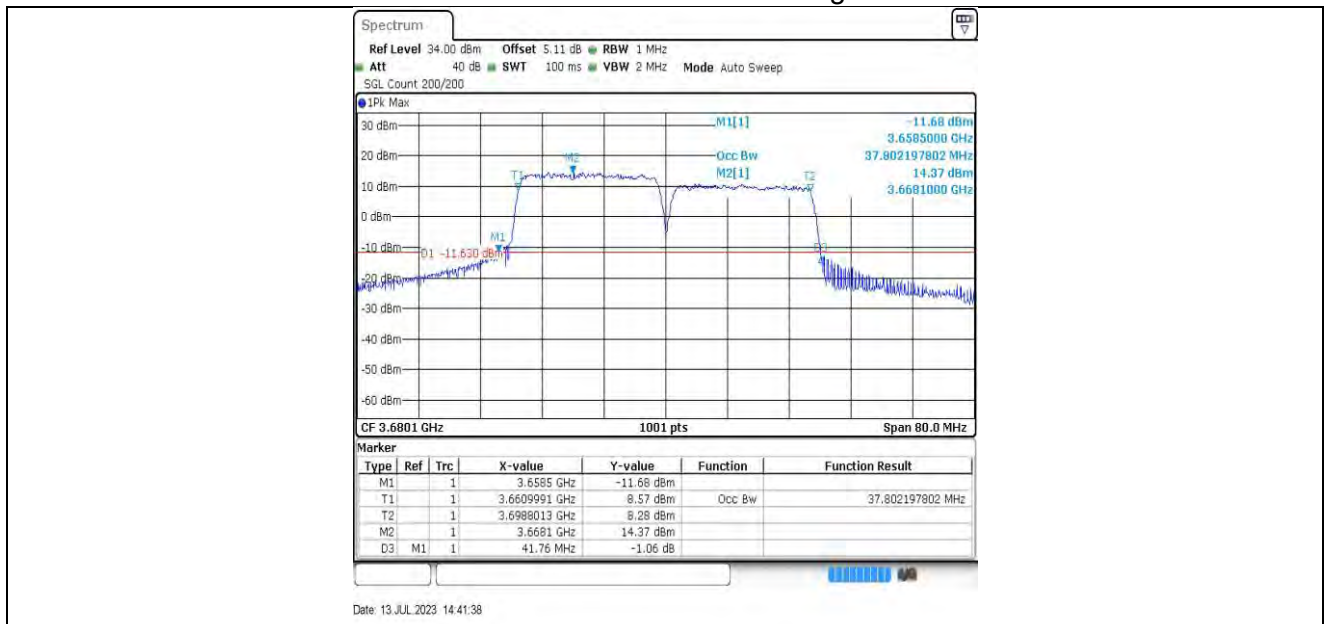
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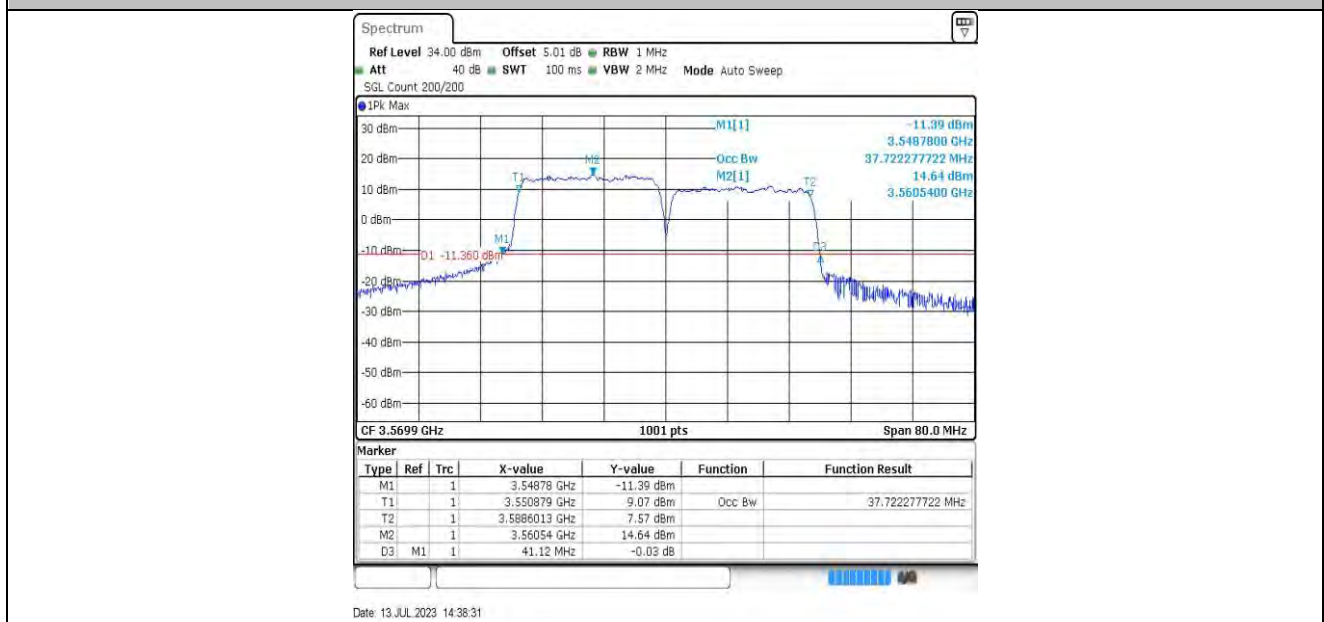
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20MHz-20MHz-56442-56640 QPSK-QPSK



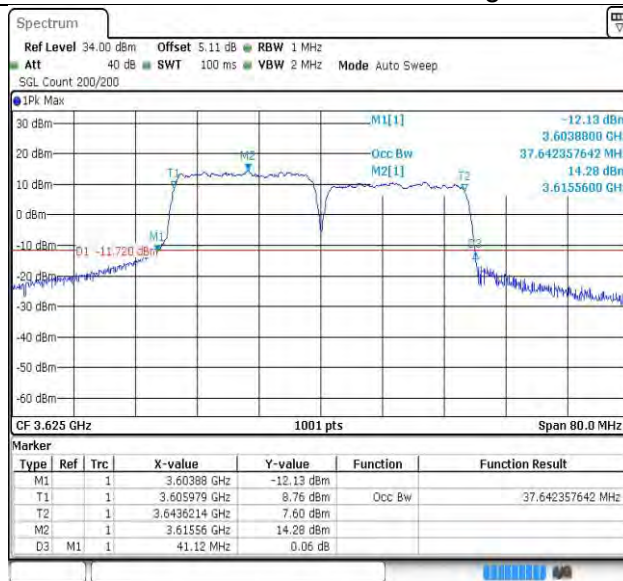
20MHz-20MHz-55340-55538 16QAM-16QAM



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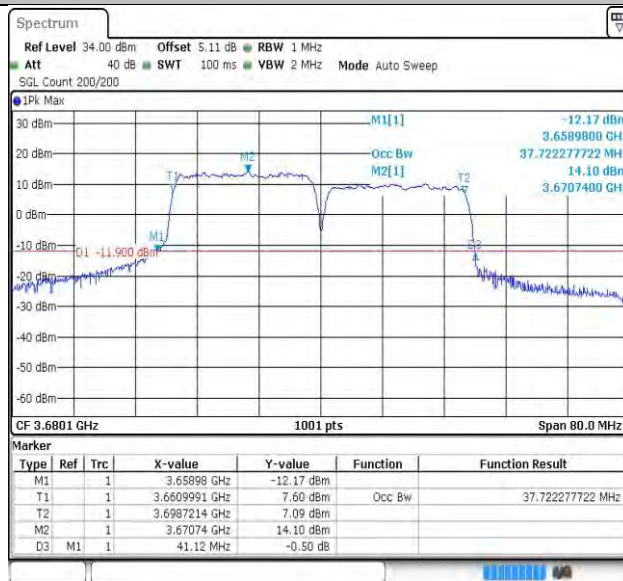
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Date: 13 JUL 2023 14:40:32

20MHz-20MHz-55891-56089 16QAM-16QAM



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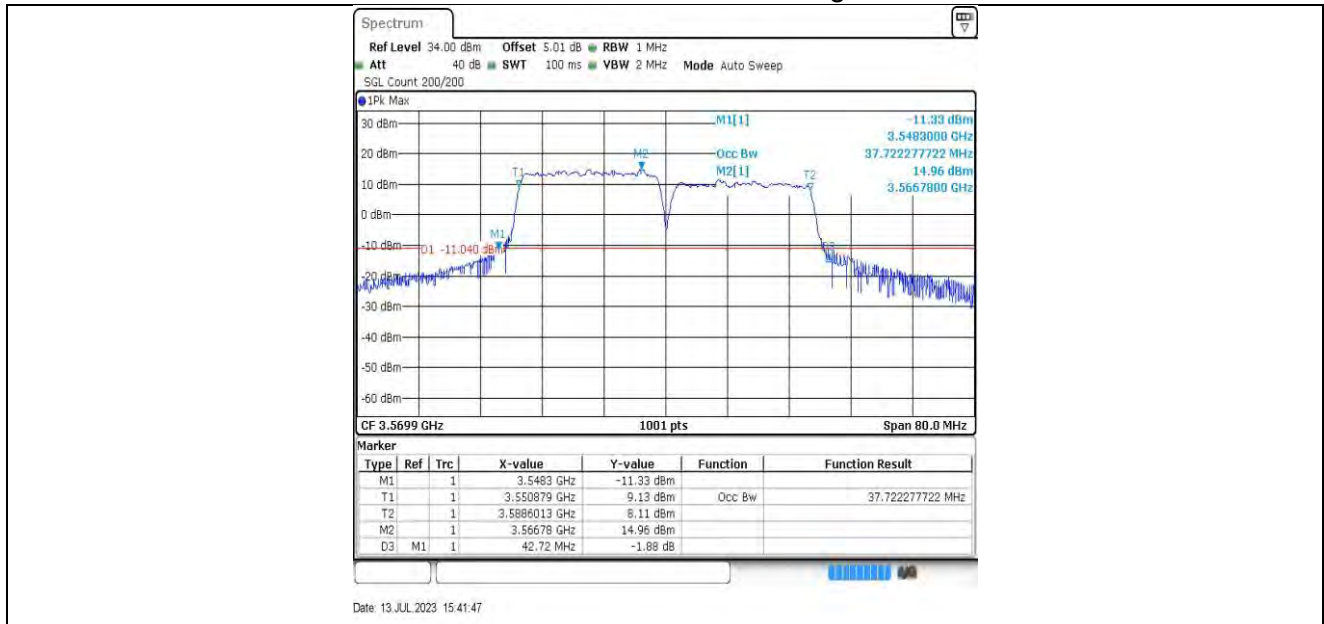
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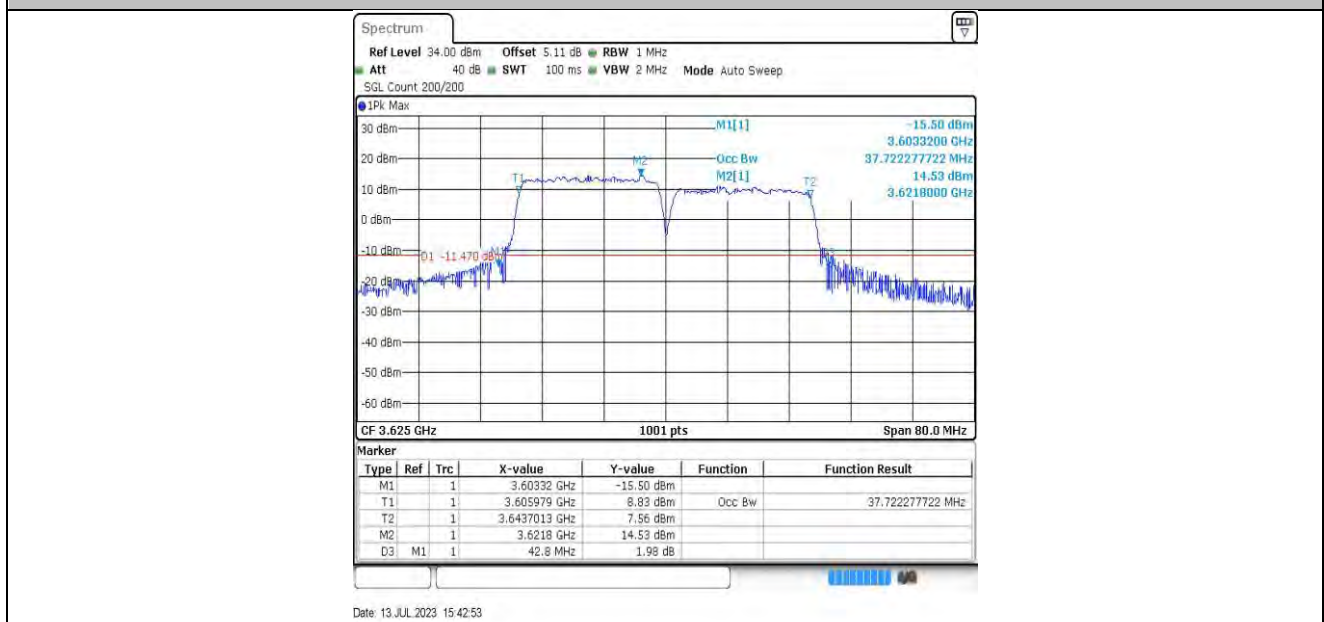
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20MHz-20MHz-55340-55538 64QAM-64QAM



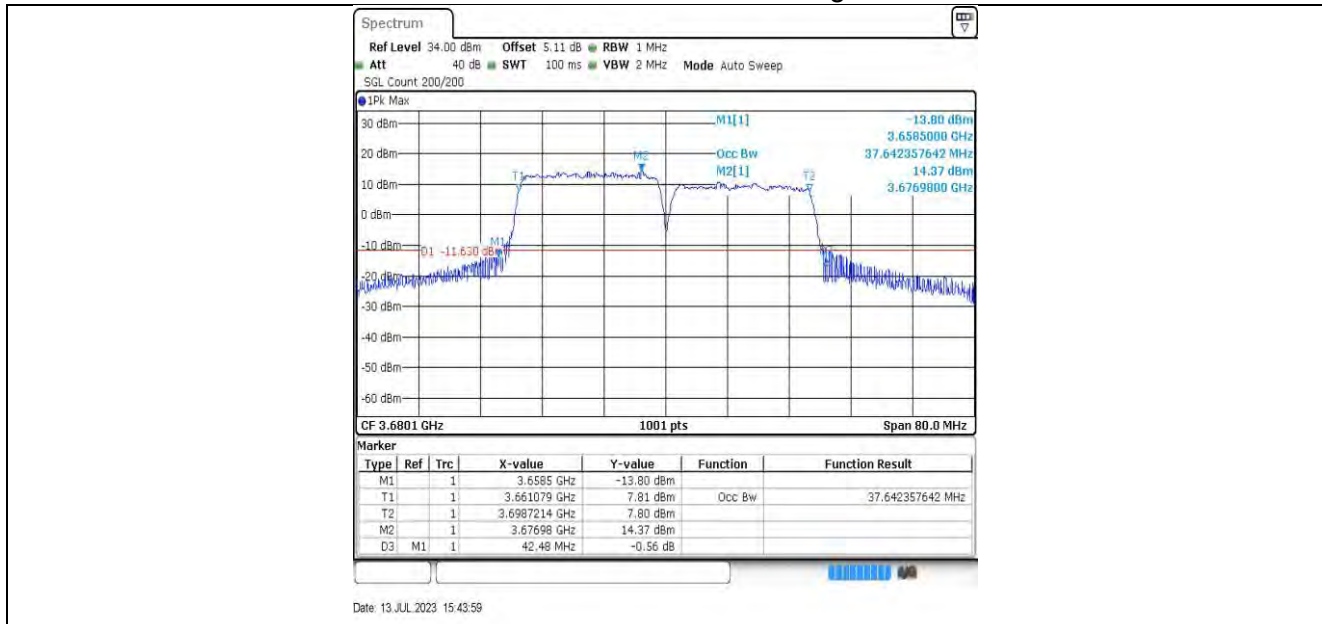
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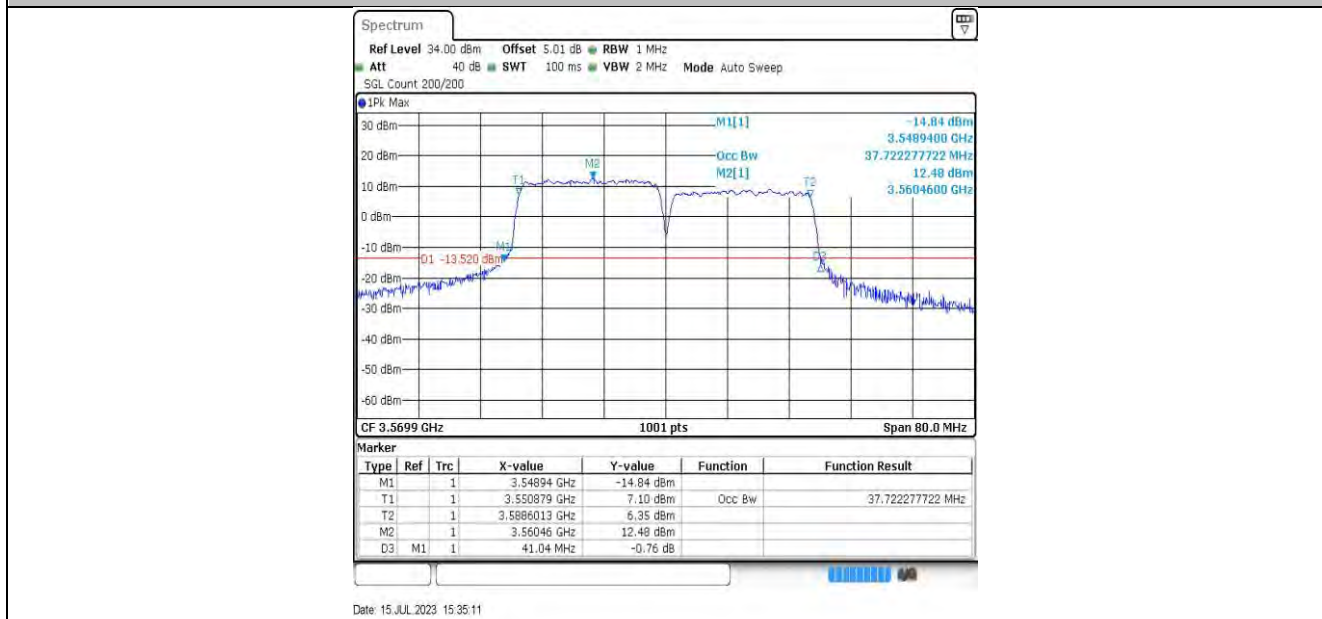
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20MHz-20MHz-56442-56640 64QAM-64QAM



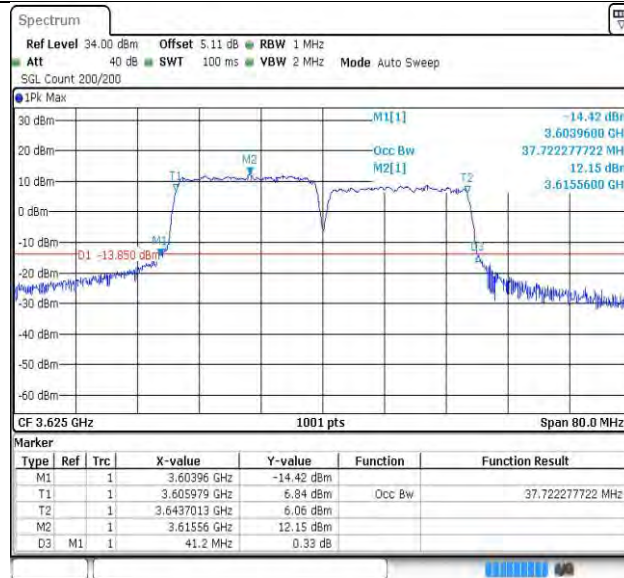
20MHz-20MHz-55340-55538 256QAM-256QAM



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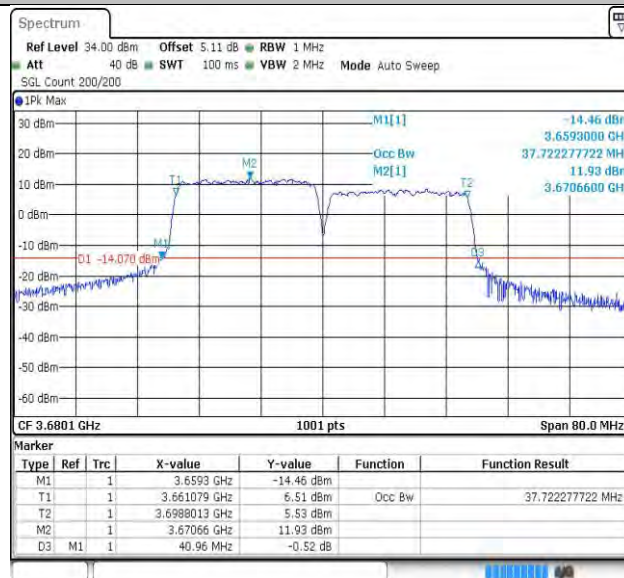
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Date: 15 JUL 2023 15:37:50

20MHz-20MHz-55891-56089 256QAM-256QAM



Date: 15 JUL 2023 15:40:16

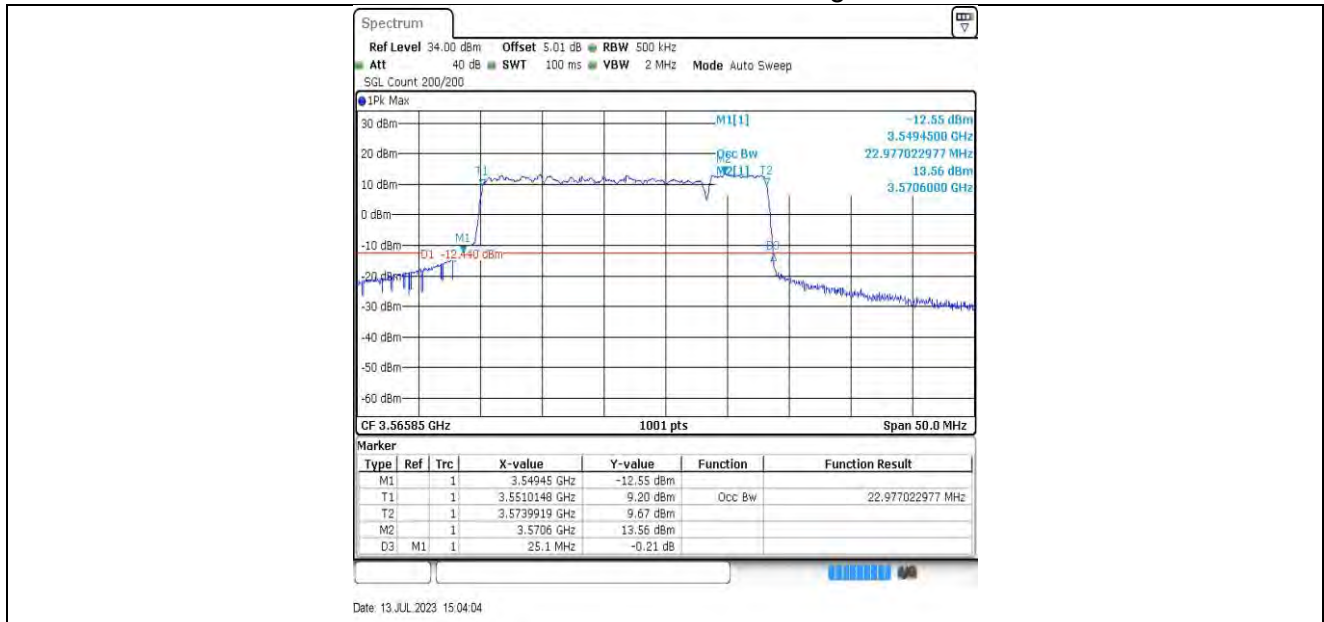
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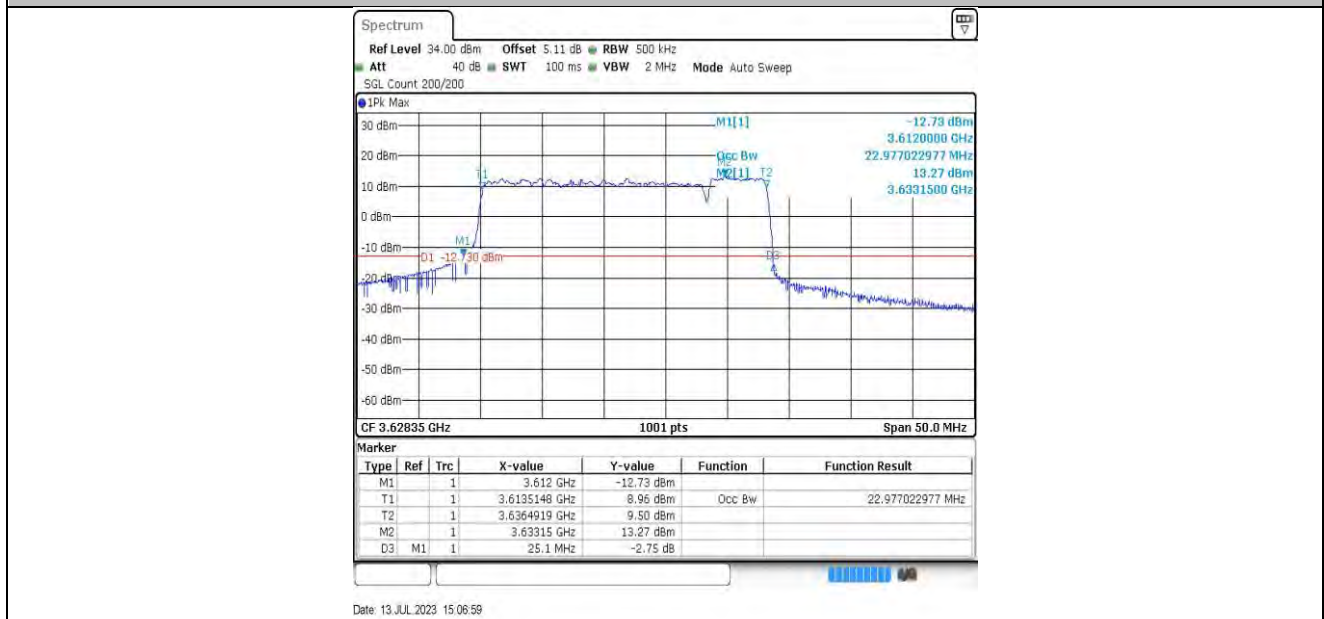
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20MHz-5MHz-55340-55457 QPSK-QPSK



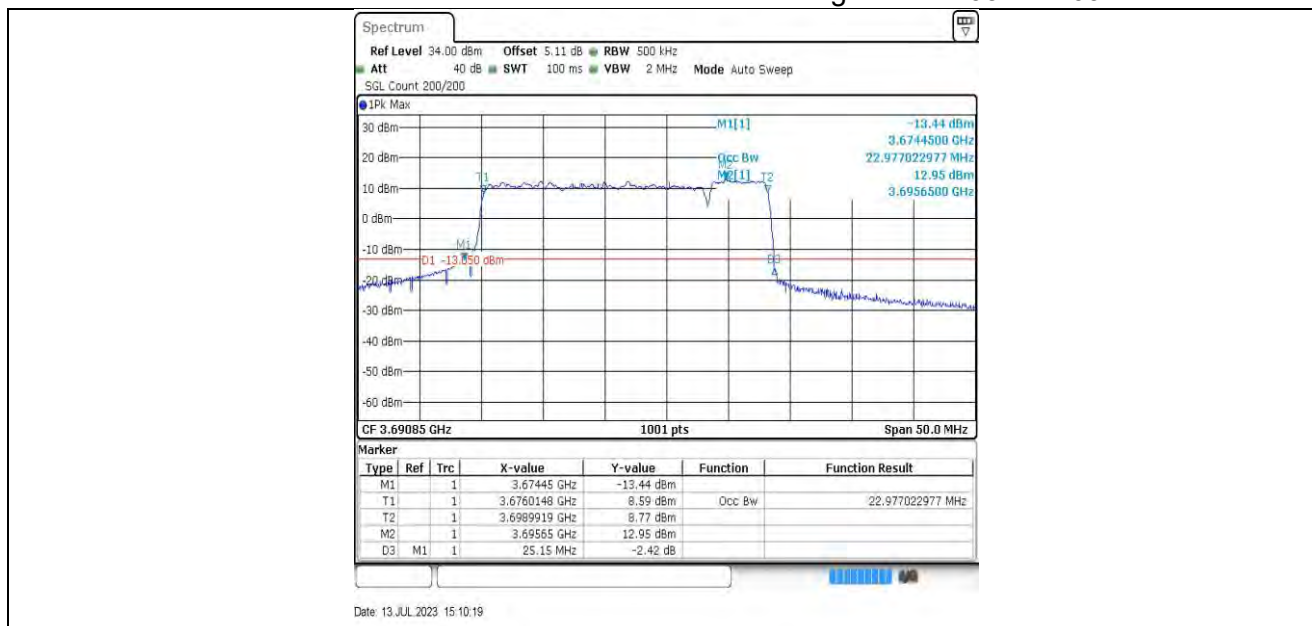
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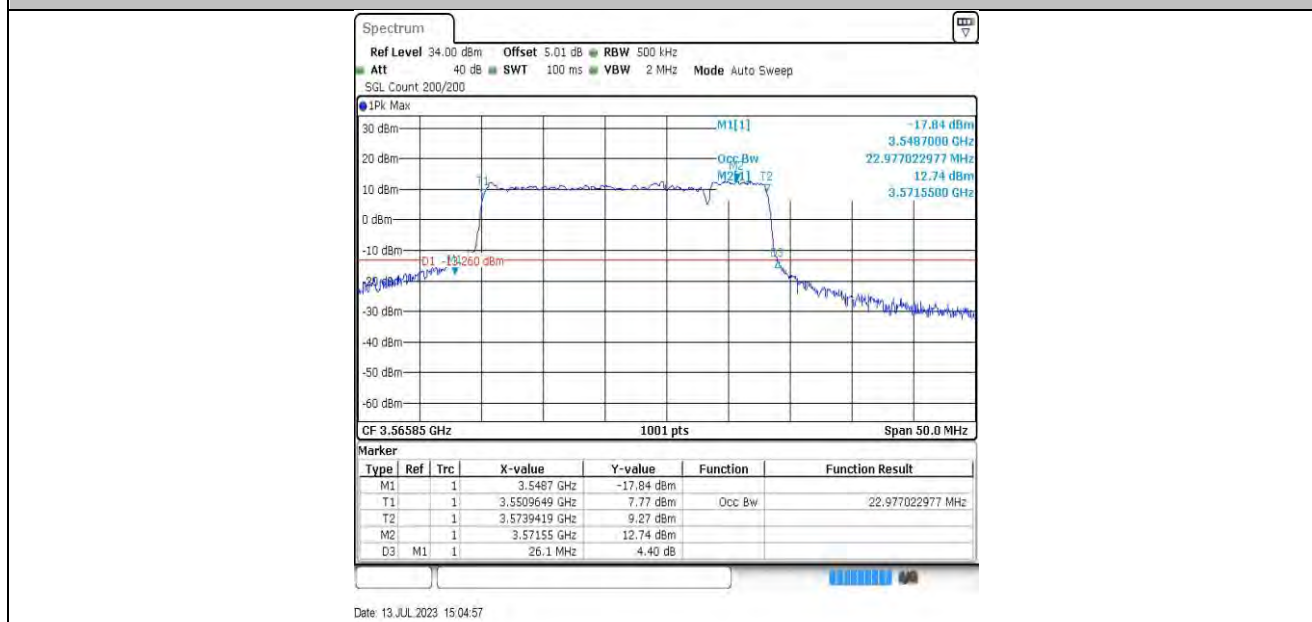
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20MHz-5MHz-56590-56707 QPSK-QPSK



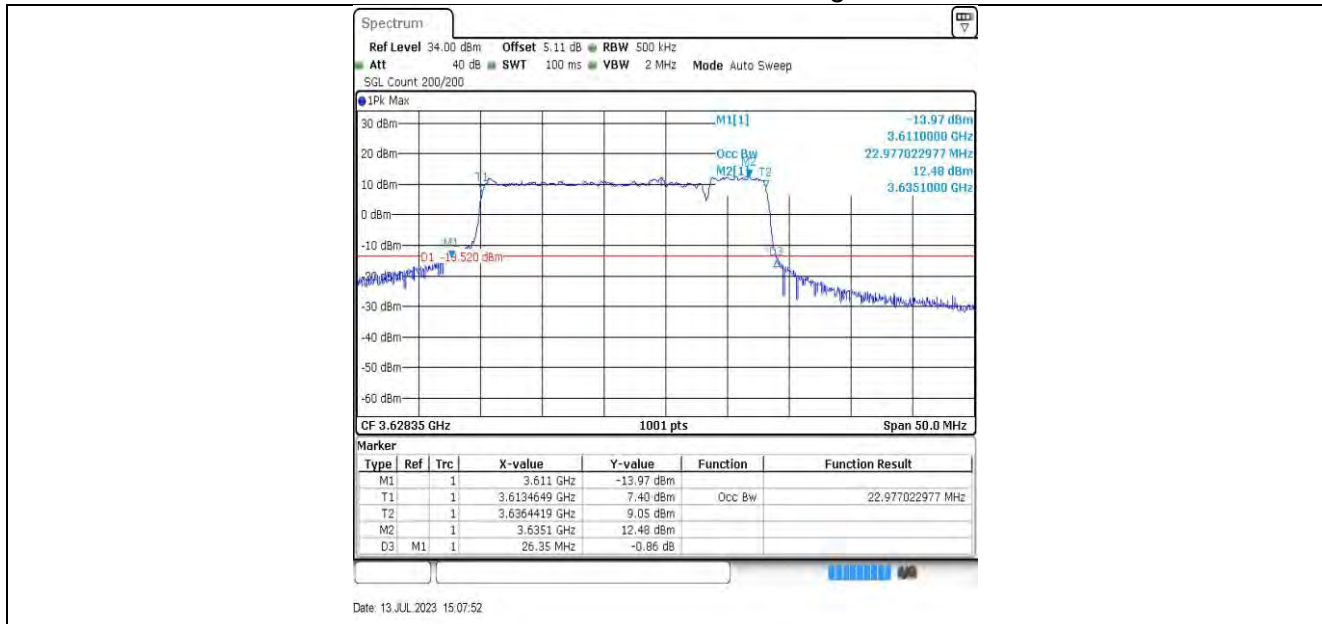
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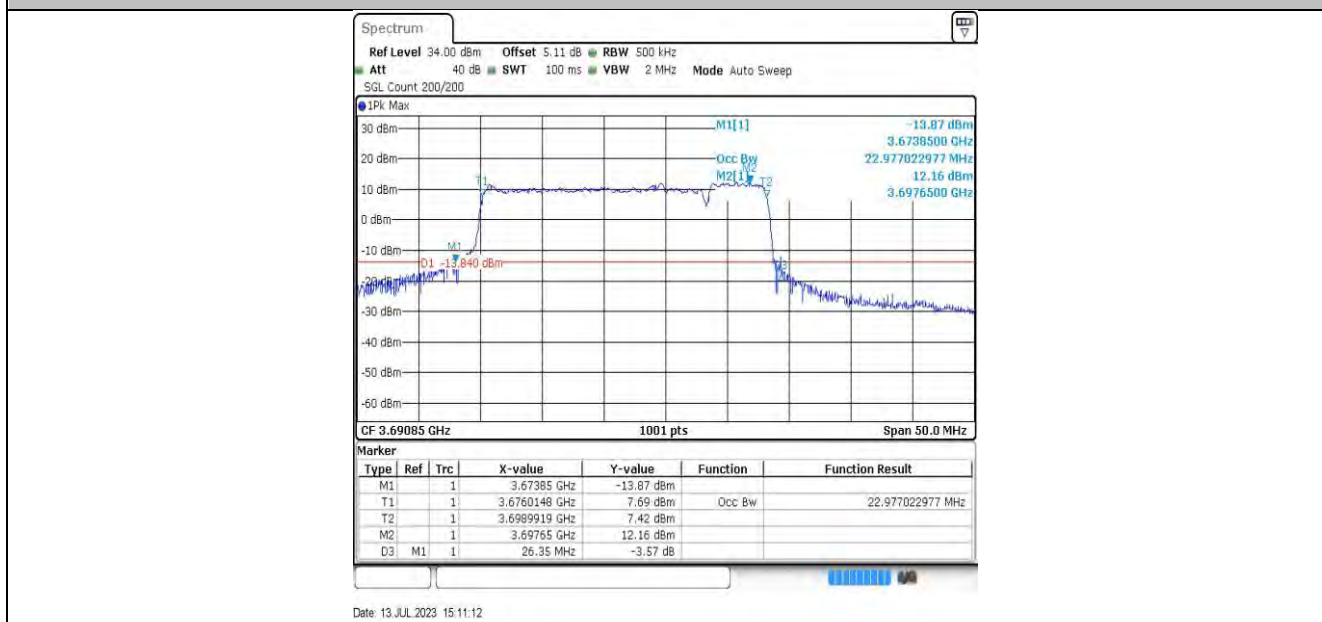
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20MHz-5MHz-55965-56082 16QAM-16QAM



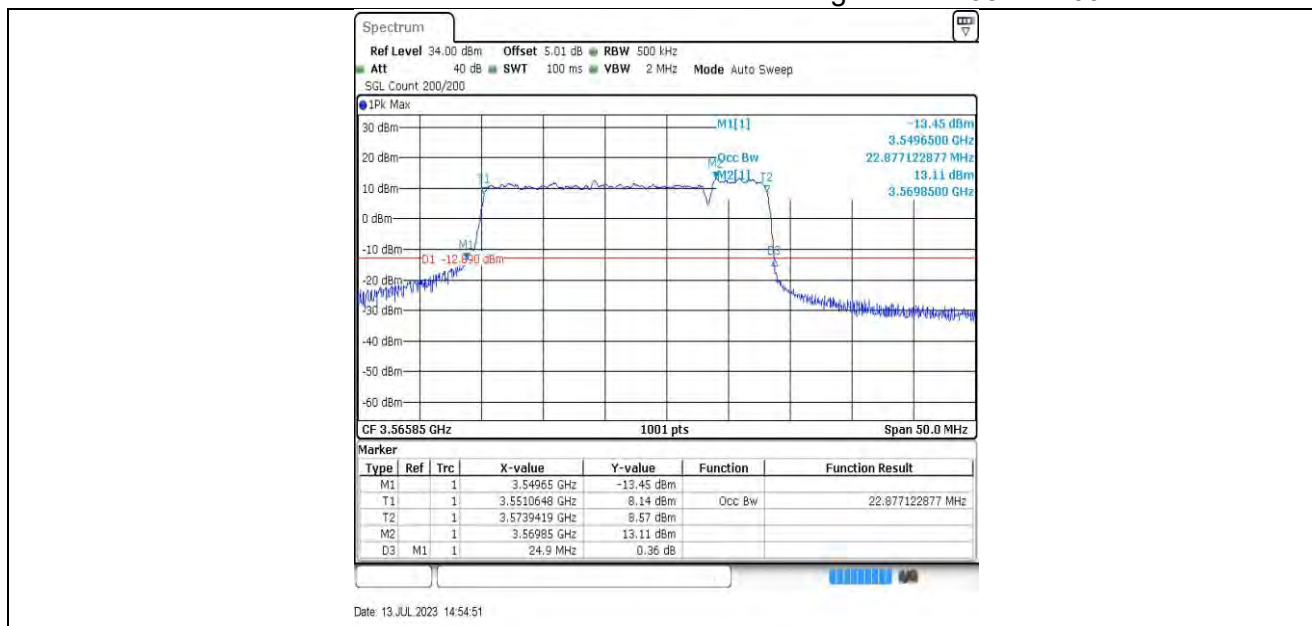
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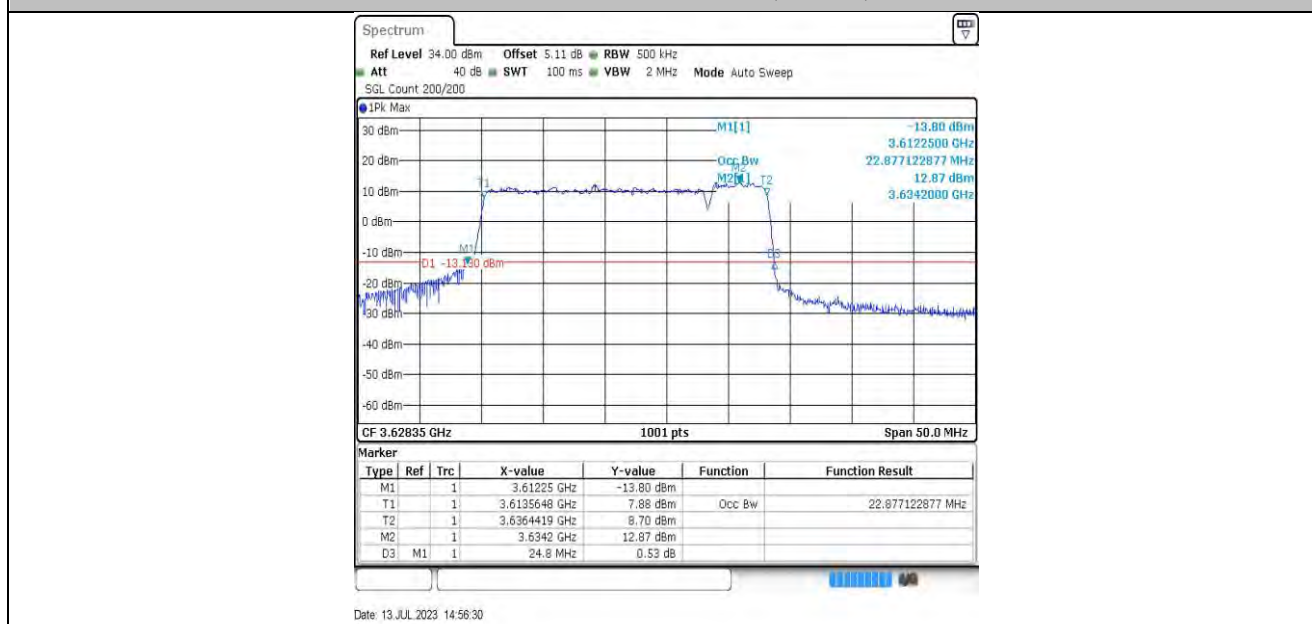
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20MHz-5MHz-55340-55457 64QAM-64QAM



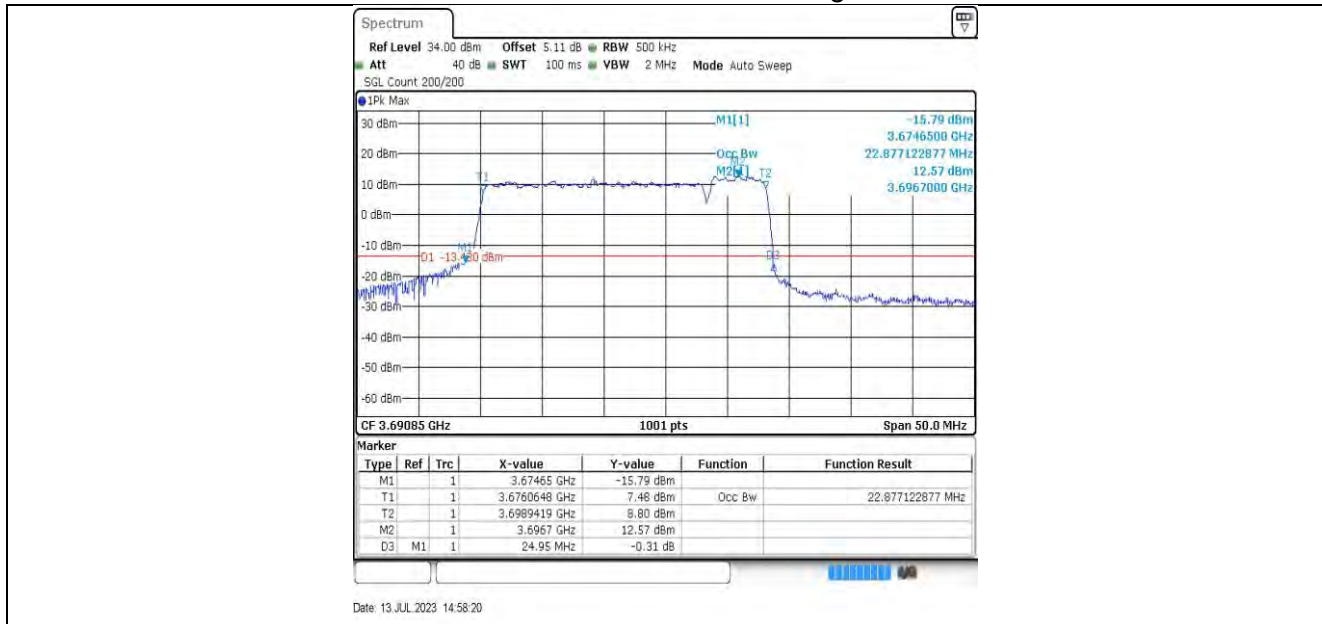
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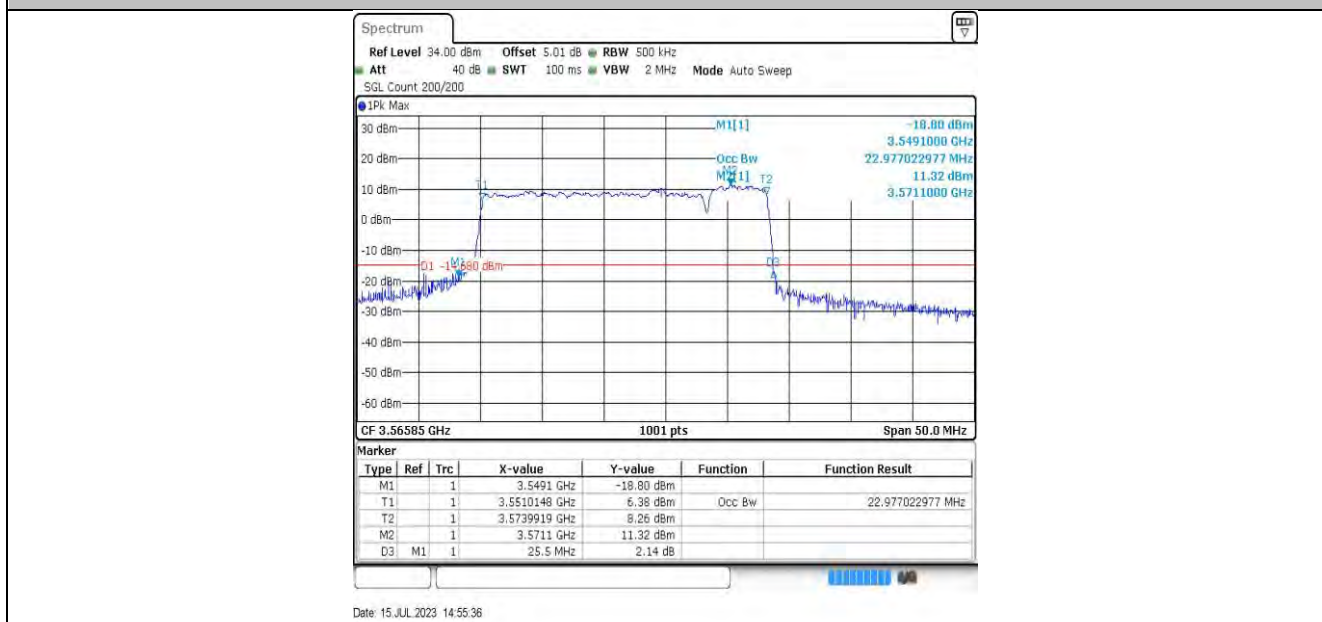
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20MHz-5MHz-56590-56707 64QAM-64QAM



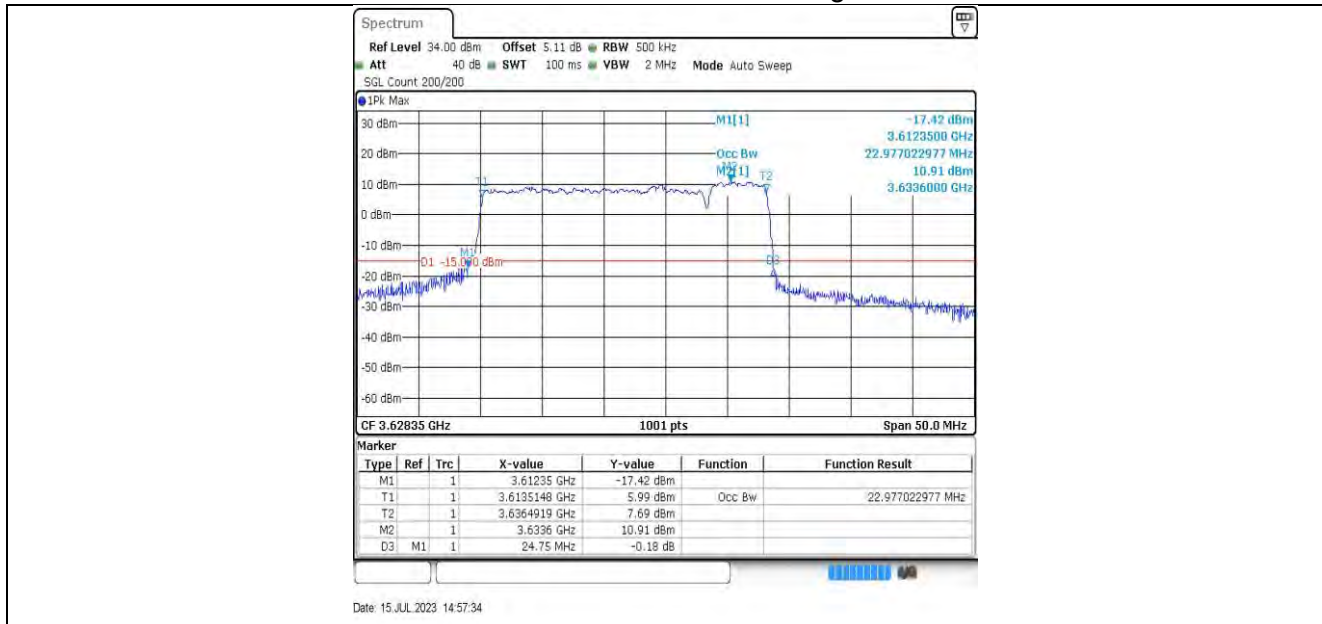
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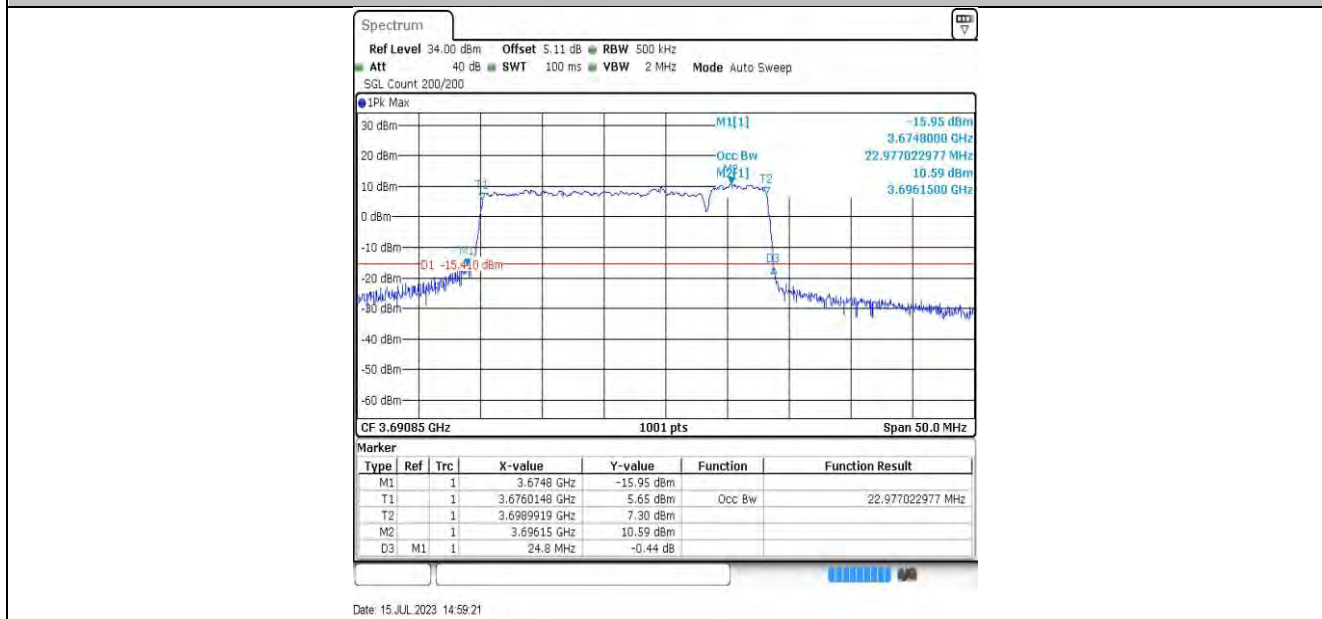
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20MHz-5MHz-55965-56082 256QAM-256QAM



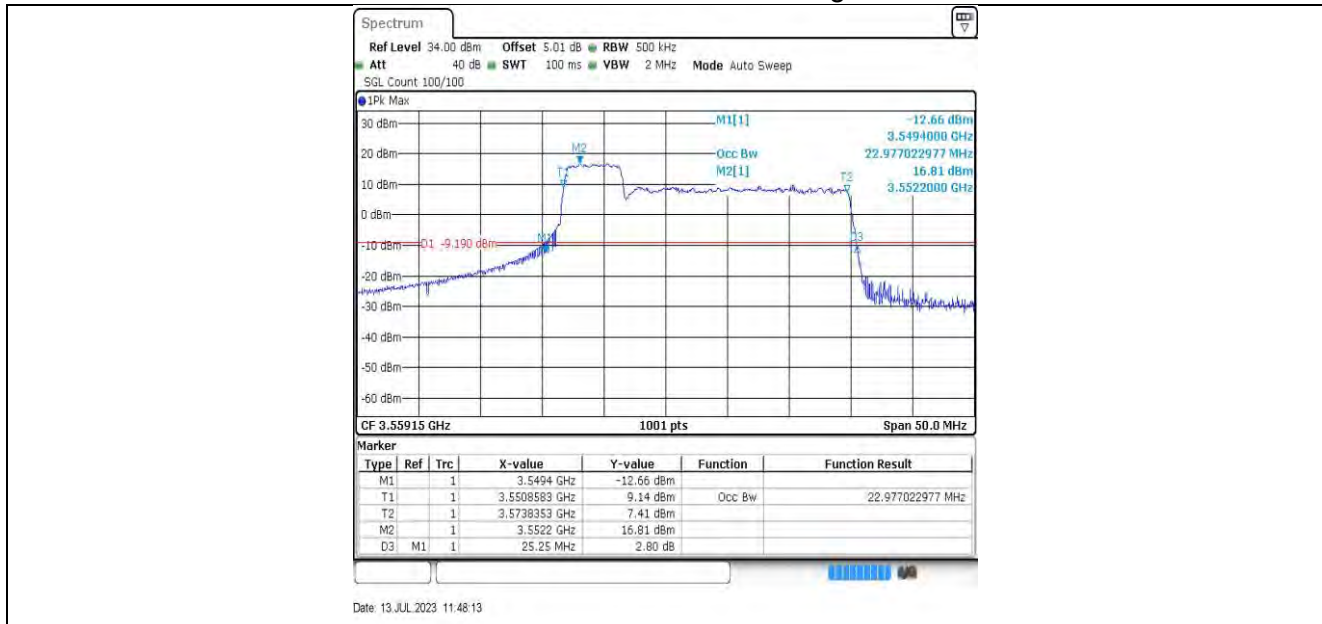
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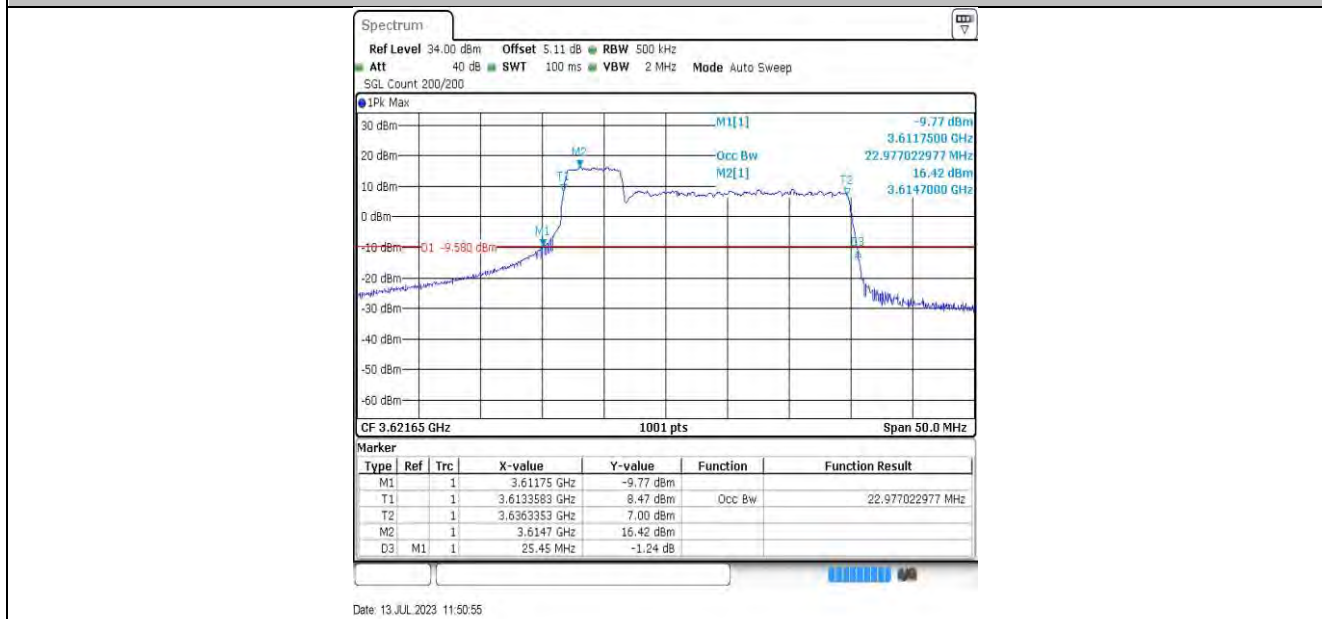
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5MHz-20MHz-55273-55390 QPSK-QPSK



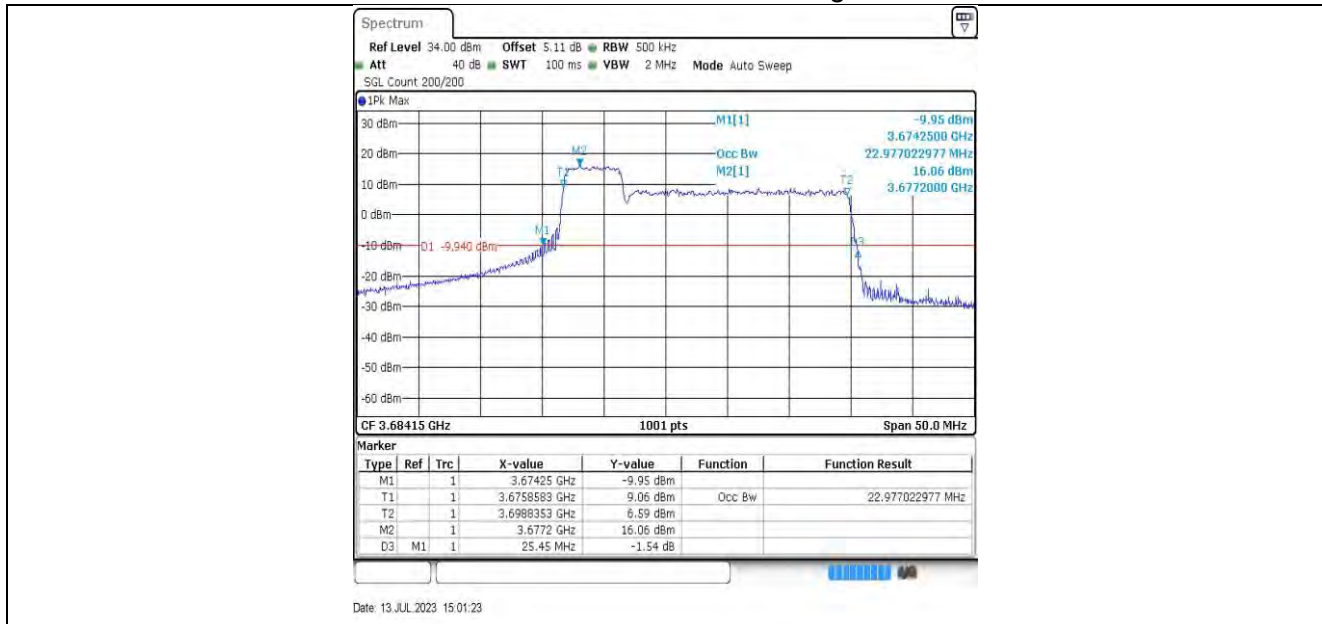
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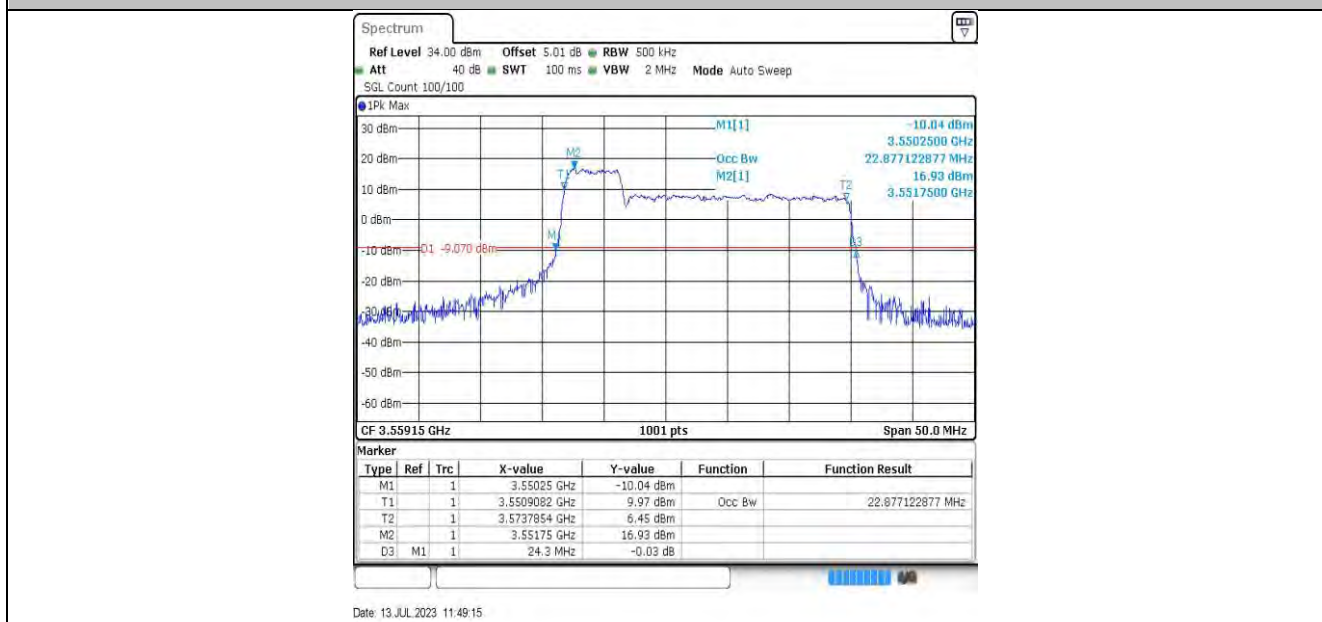
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5MHz-20MHz-56523-56640 QPSK-QPSK



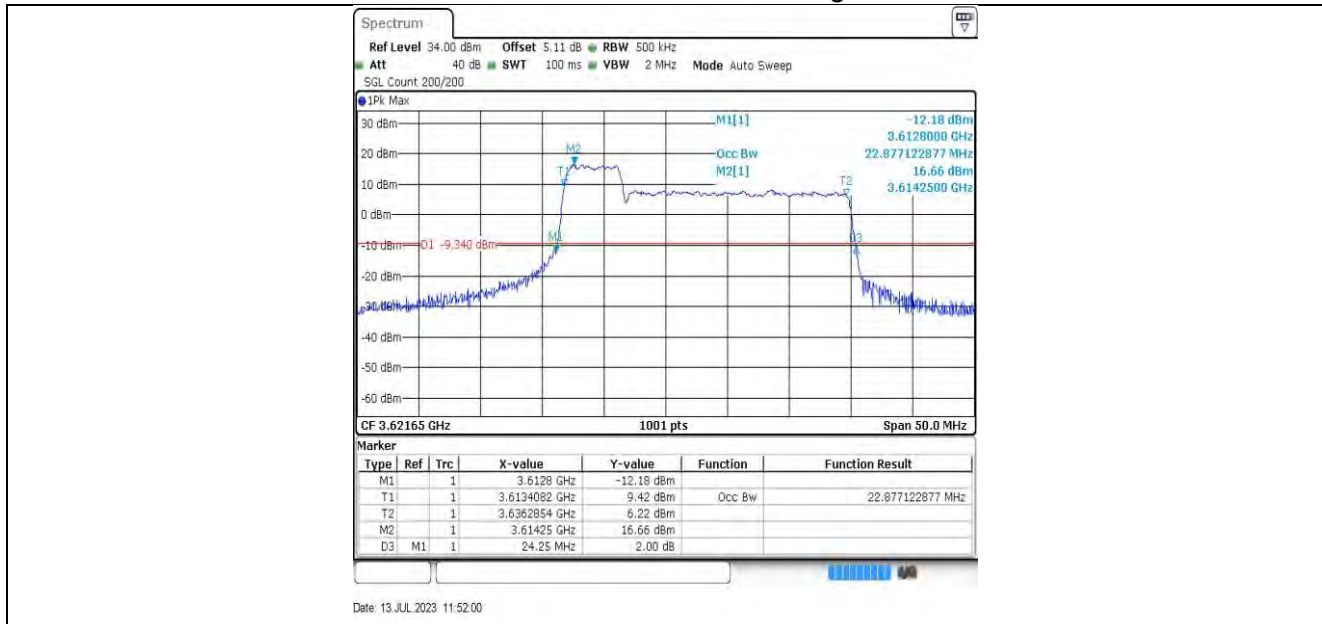
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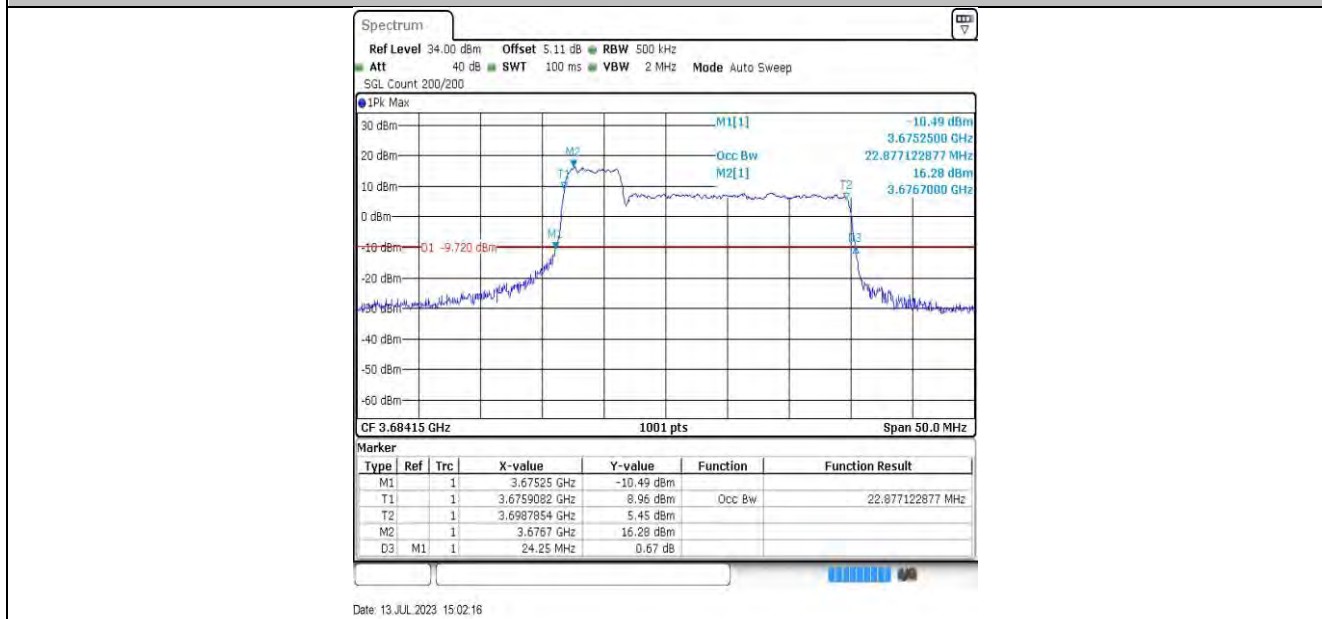
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5MHz-20MHz-55898-56015 16QAM-16QAM



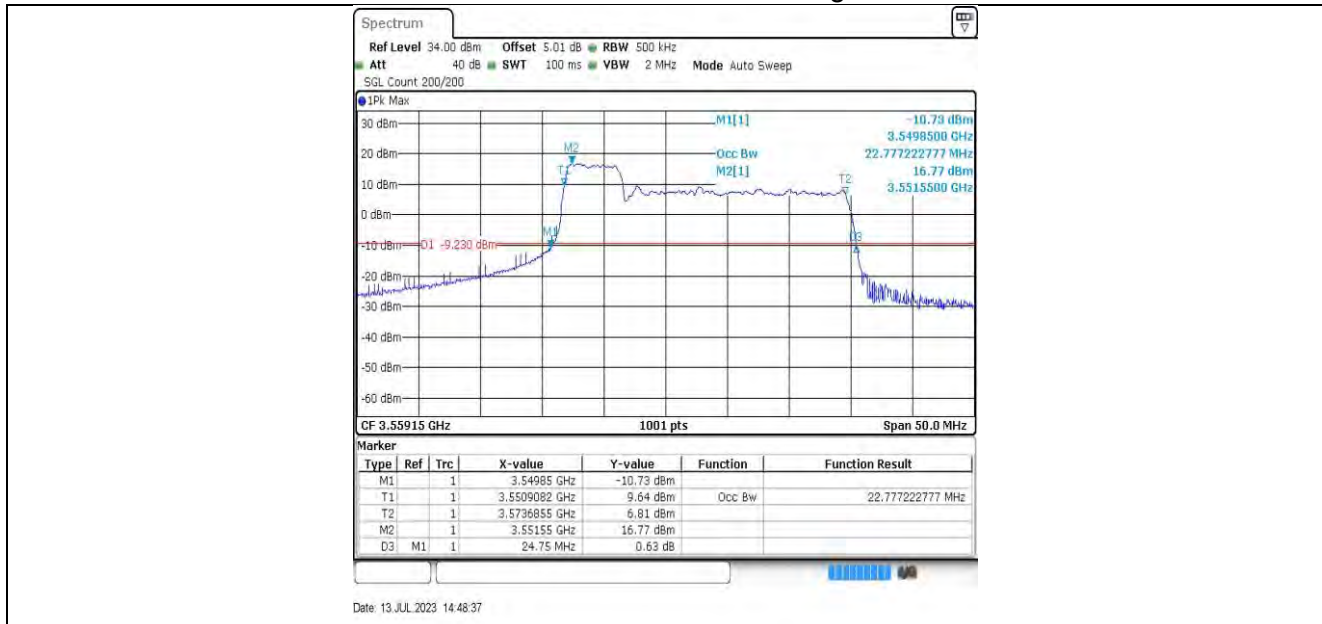
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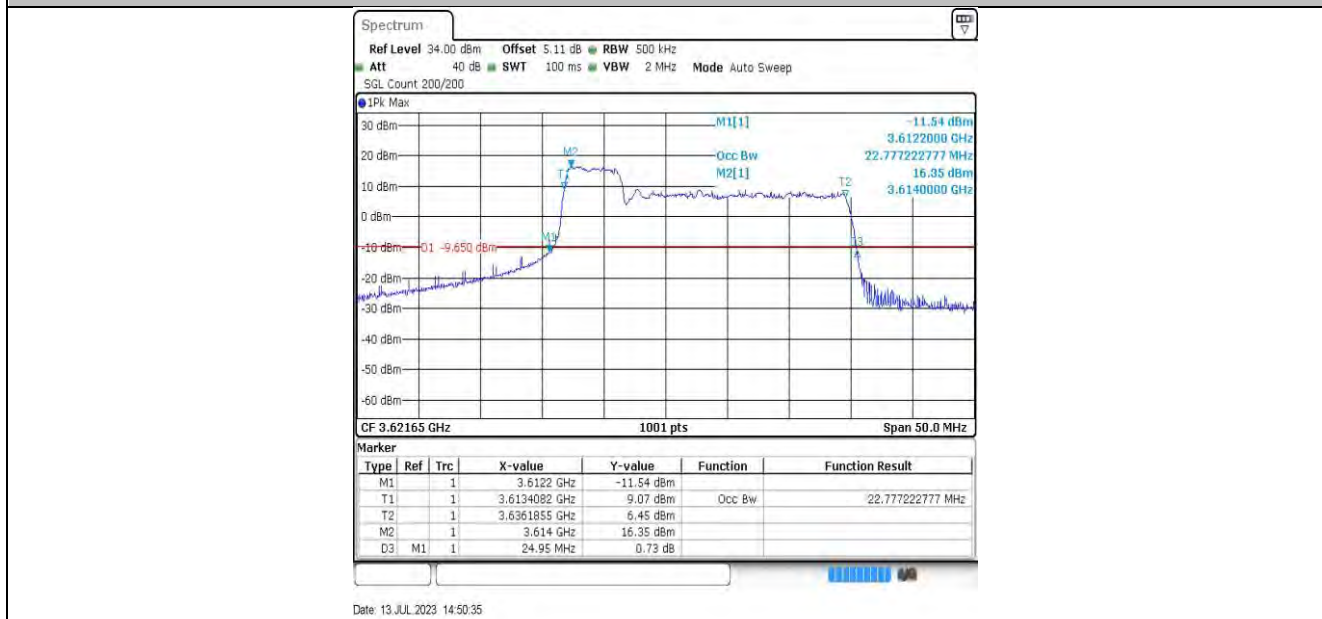
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5MHz-20MHz-55273-55390 64QAM-64QAM



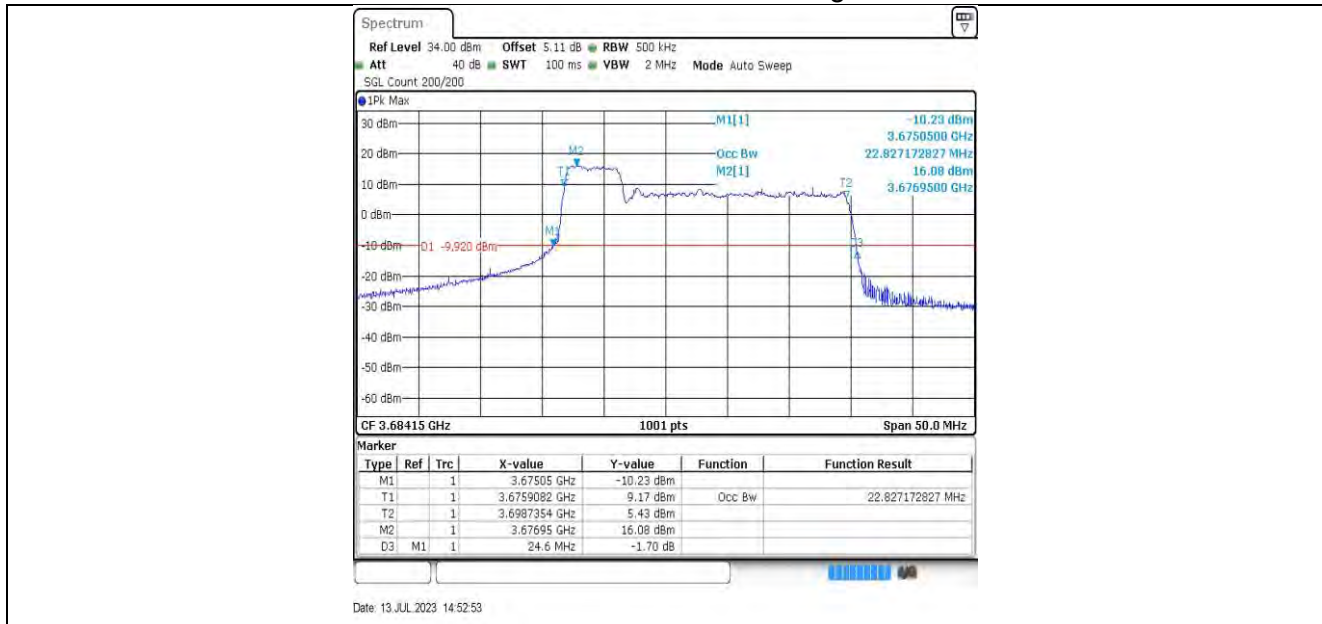
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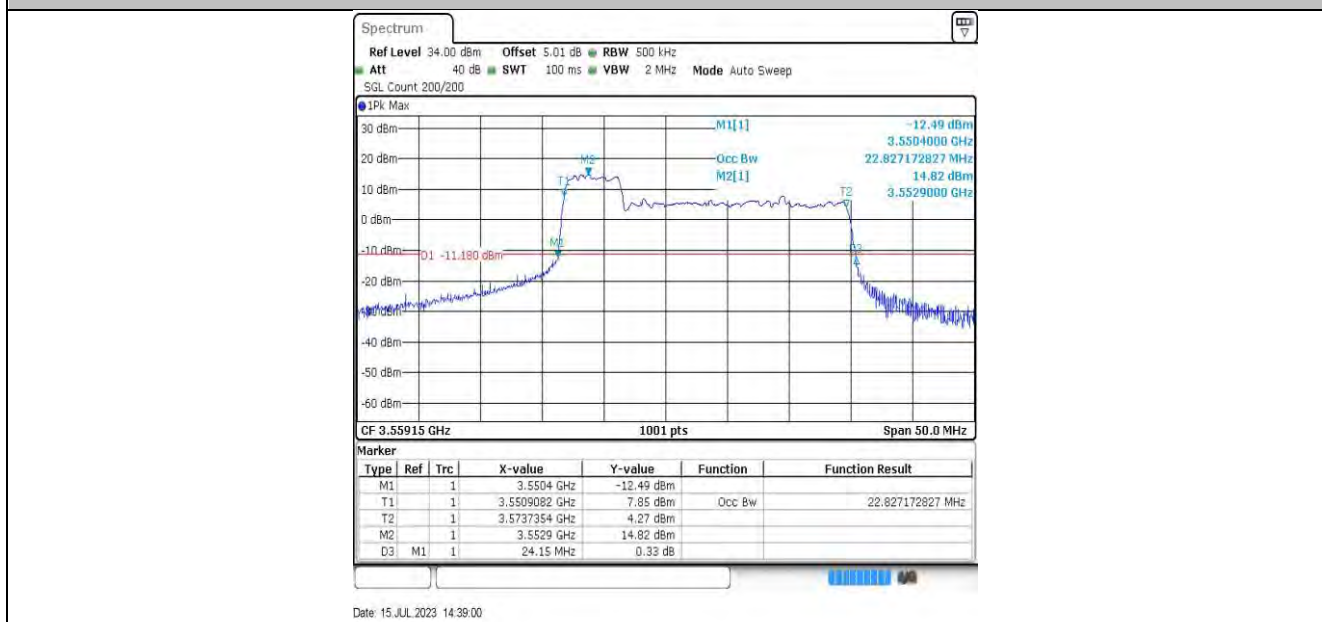
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5MHz-20MHz-56523-56640 64QAM-64QAM



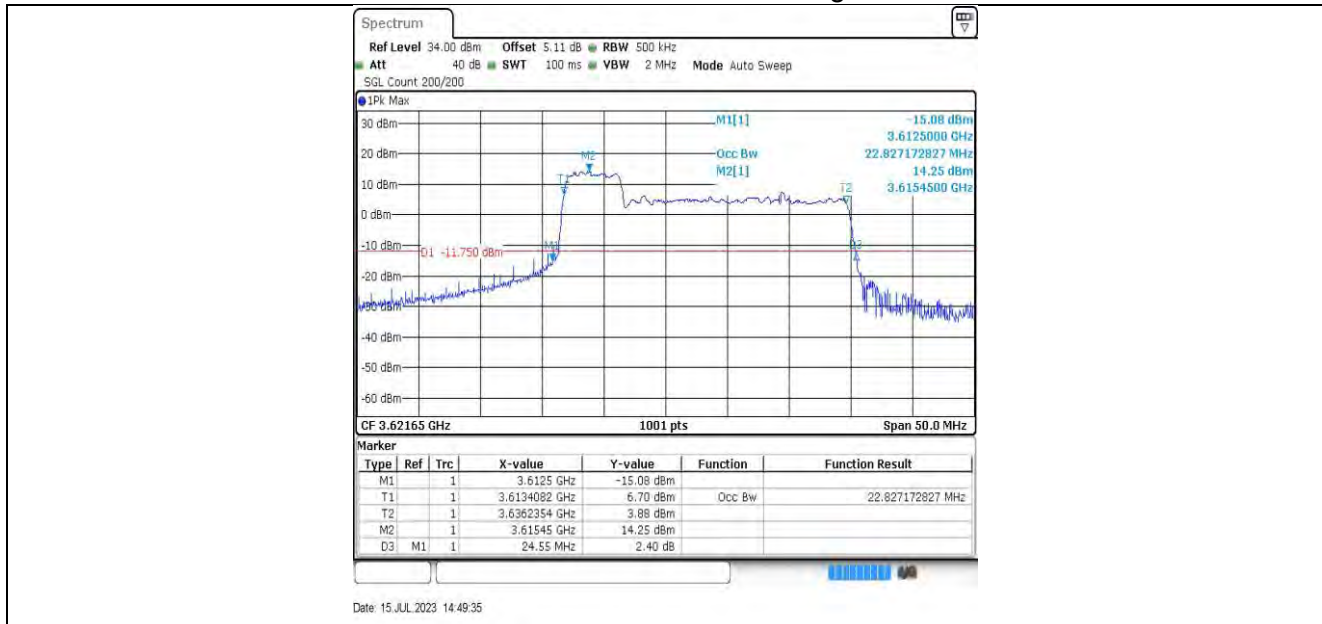
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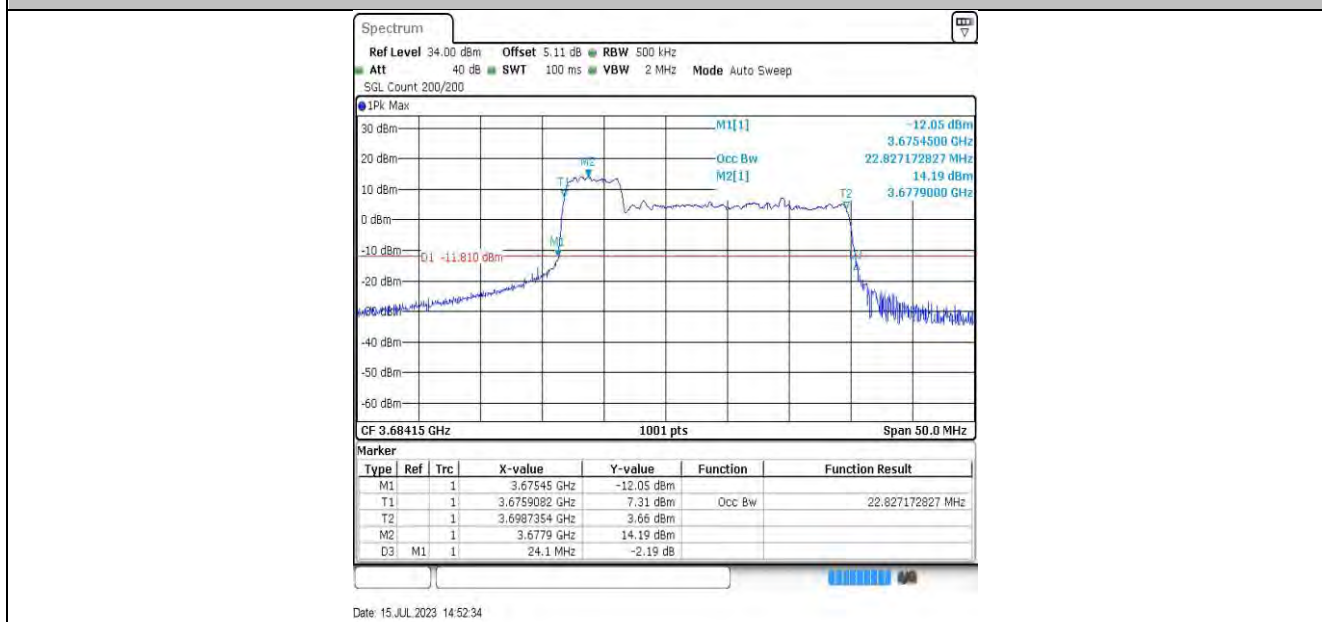
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5MHz-20MHz-55898-56015 256QAM-256QAM



5MHz-20MHz-56523-56640 256QAM-256QAM



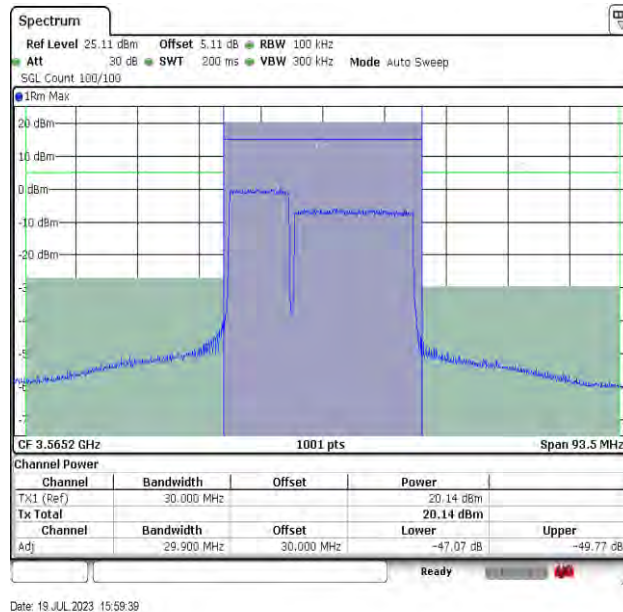
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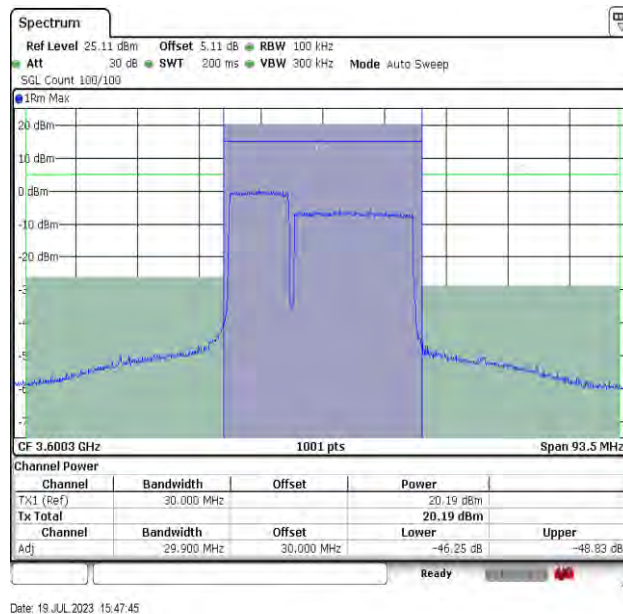
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Adjacent channel leakage ratio

Test Graphs



10MHz-20MHz-55295-55439 QPSK-QPSK



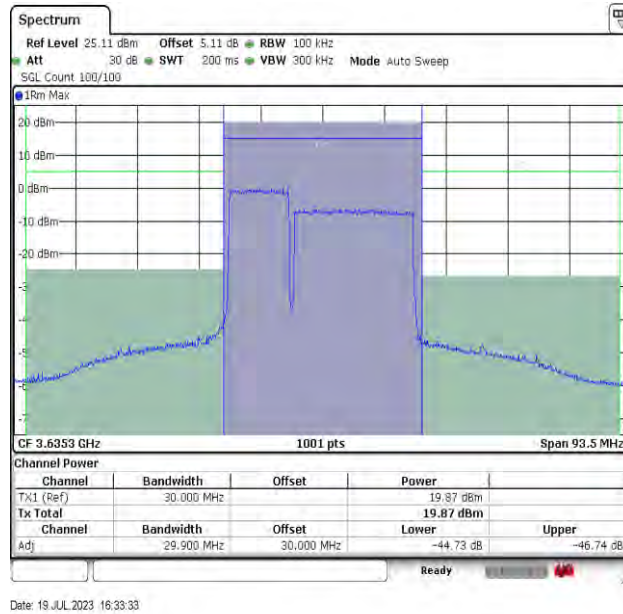
10MHz-20MHz-55896-56040 QPSK-QPSK



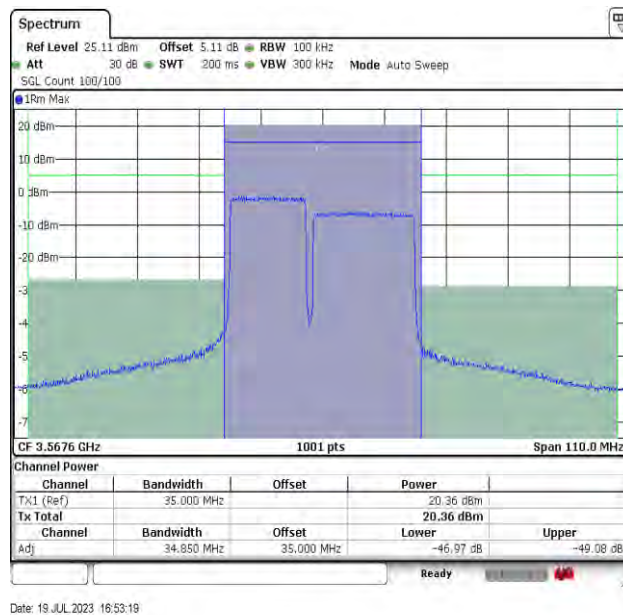
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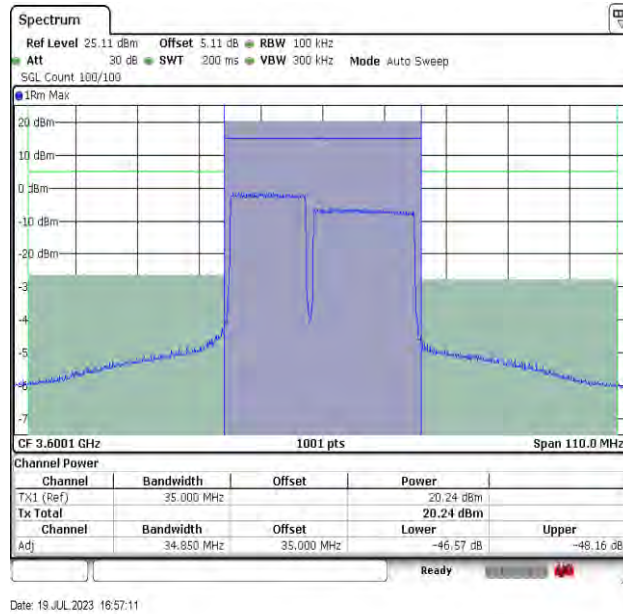


10MHz-20MHz-56496-56640 QPSK-QPSK

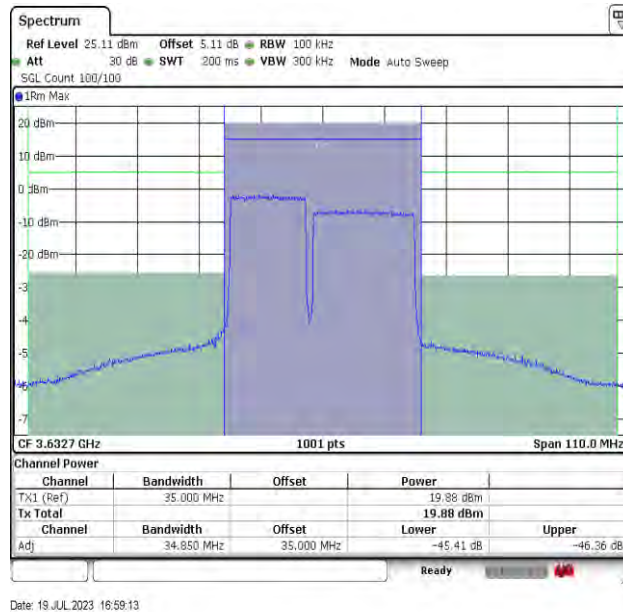


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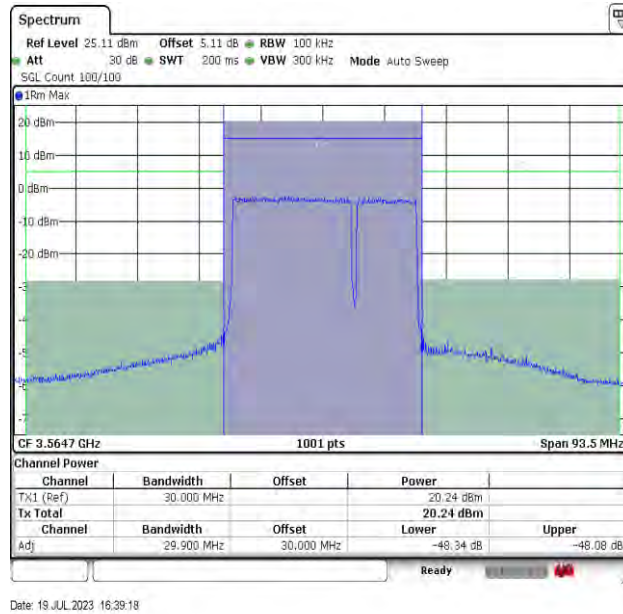


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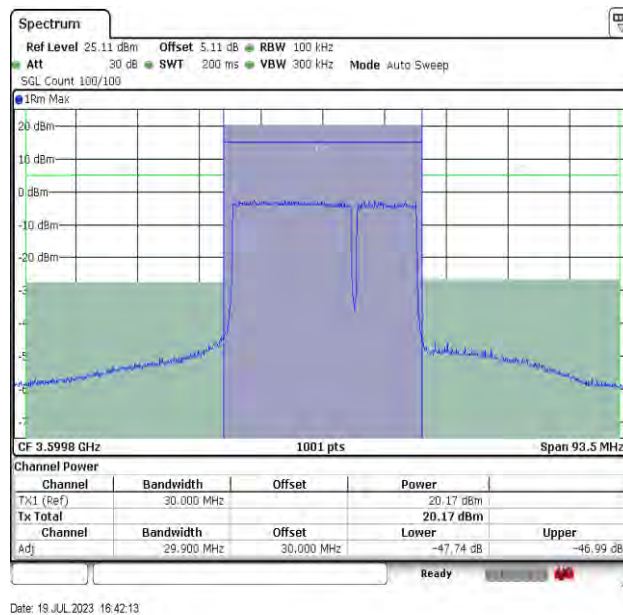


15MHz-20MHz-56469-56640 QPSK-QPSK





20MHz-10MHz-55340-55484 QPSK-QPSK



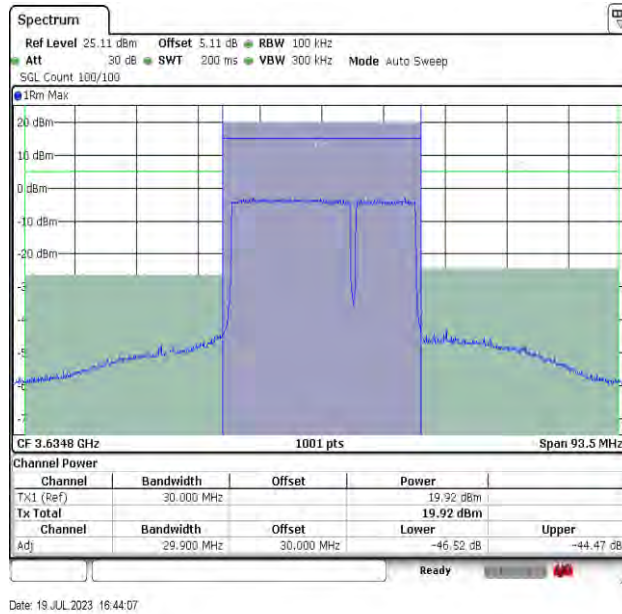
20MHz-10MHz-55941-56085 QPSK-QPSK



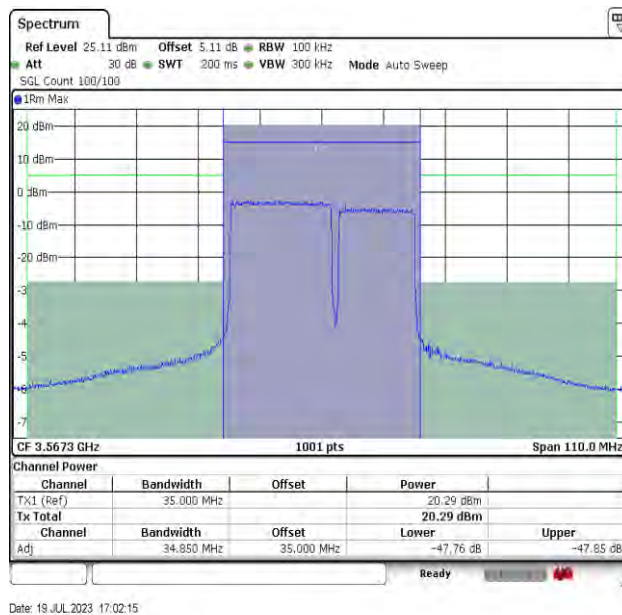
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20MHz-10MHz-56541-56685 QPSK-QPSK



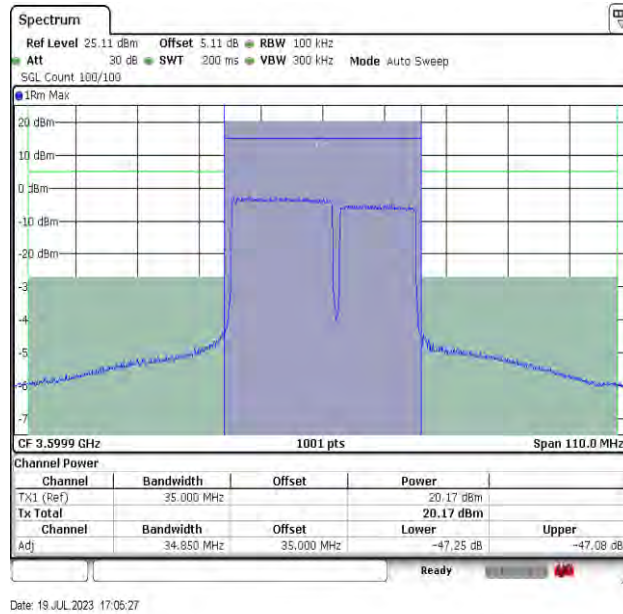
20MHz-15MHz-55916-56087 QPSK-QPSK



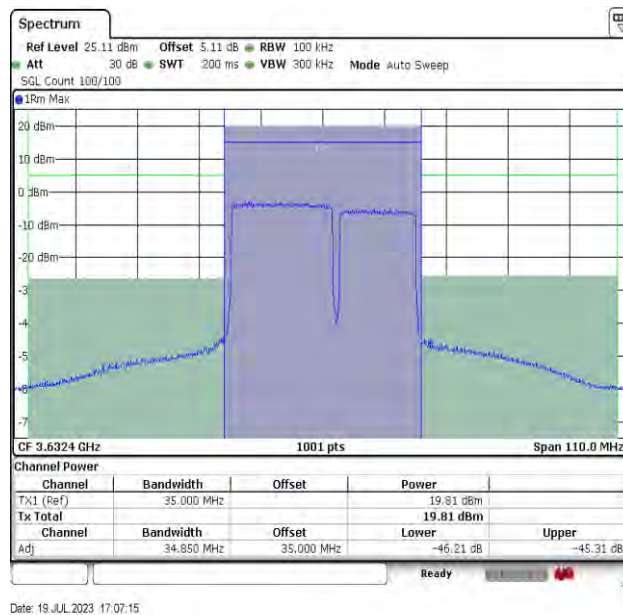
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20MHz-15MHz-56491-56662 QPSK-QPSK



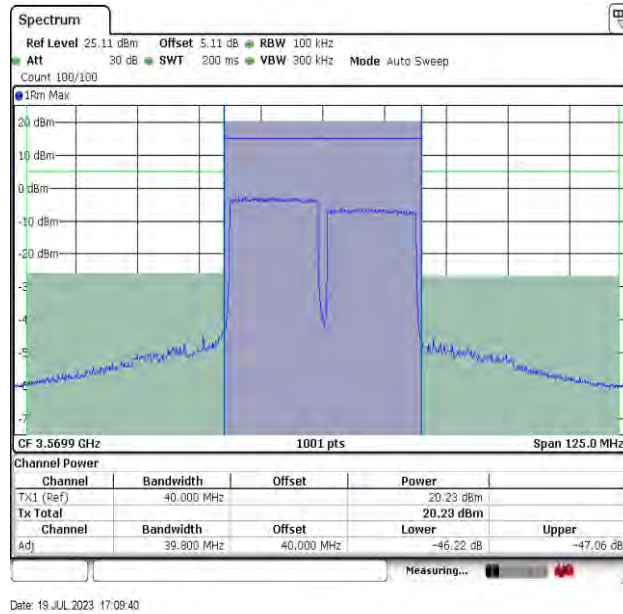
20MHz-15MHz-55340-55511 QPSK-QPSK



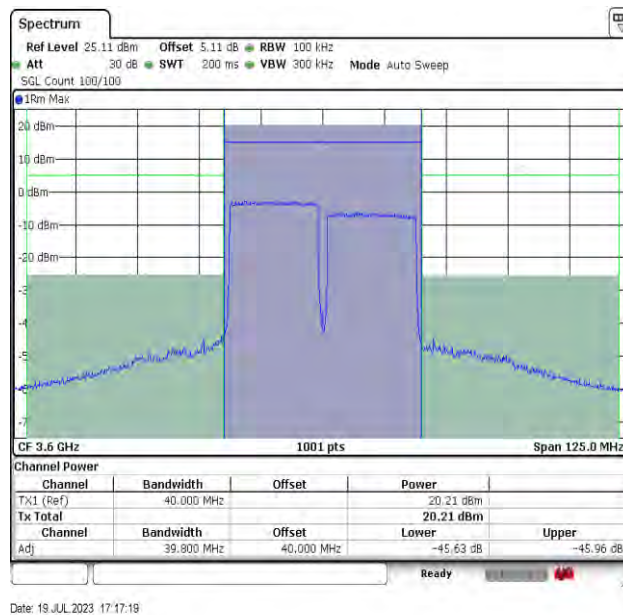
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20MHz-20MHz-55340-55538 QPSK-QPSK



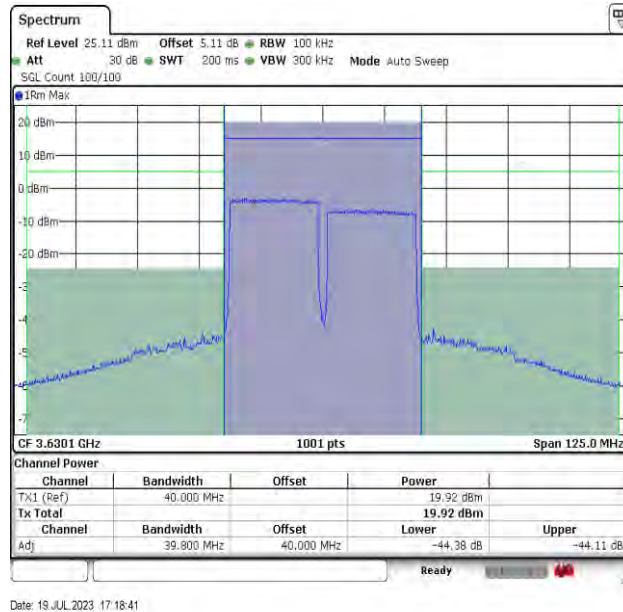
20MHz-20MHz-55891-56089 QPSK-QPSK



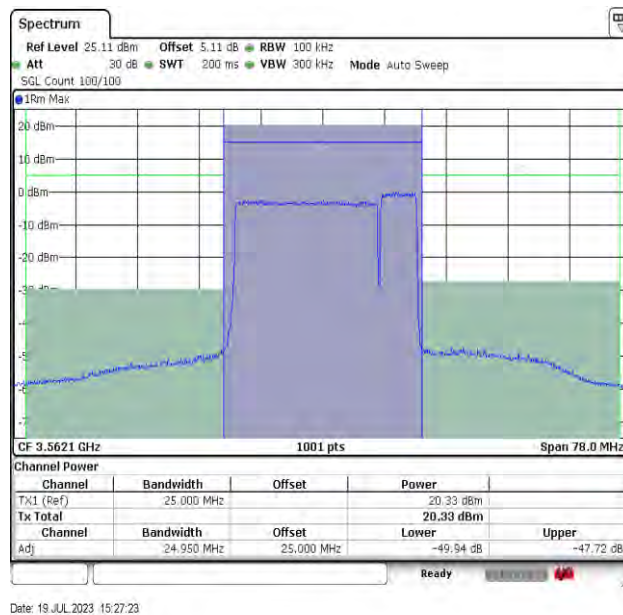
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20MHz-20MHz-56442-56640 QPSK-QPSK



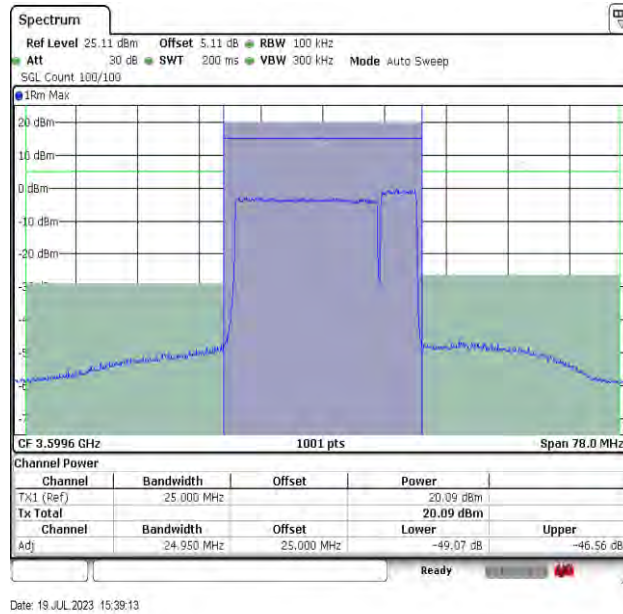
20MHz-5MHz-55340-55457 QPSK-QPSK



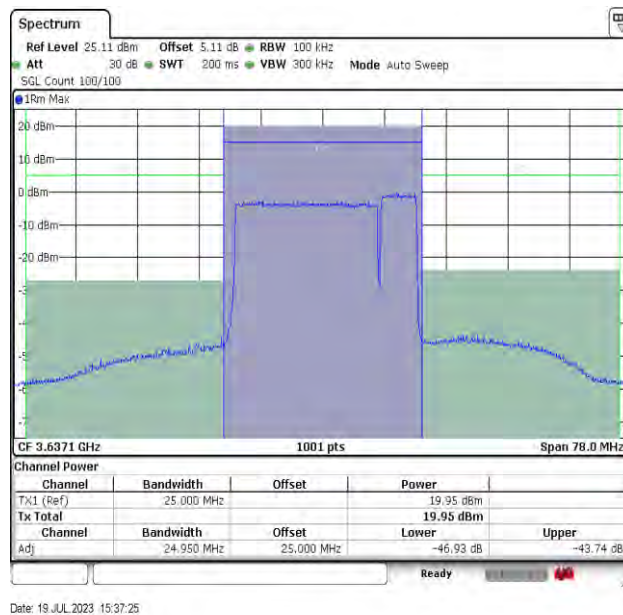
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20MHz-5MHz-55965-56082 QPSK-QPSK



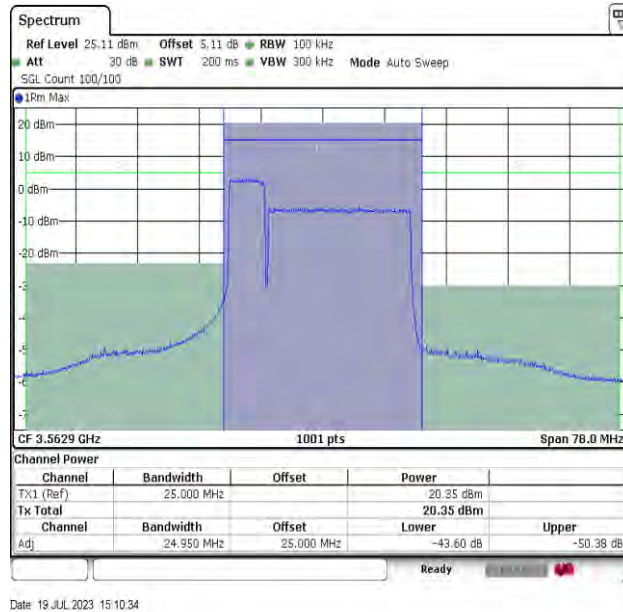
20MHz-5MHz-56590-56707 QPSK-QPSK



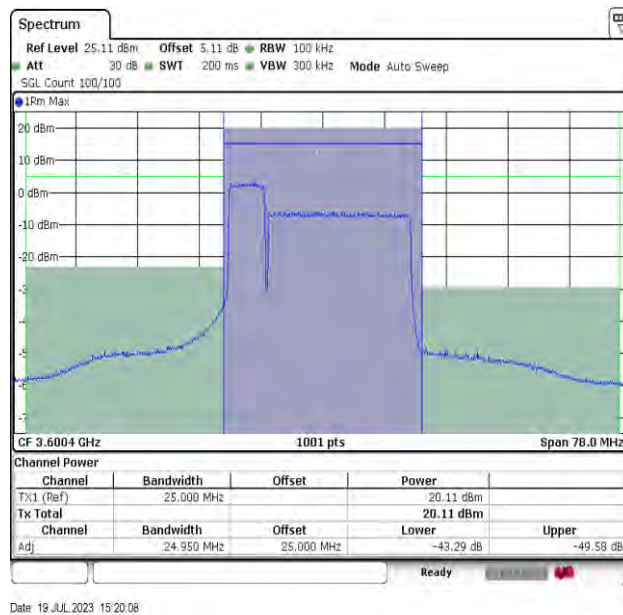
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5MHz-20MHz-55273-55390 QPSK-QPSK



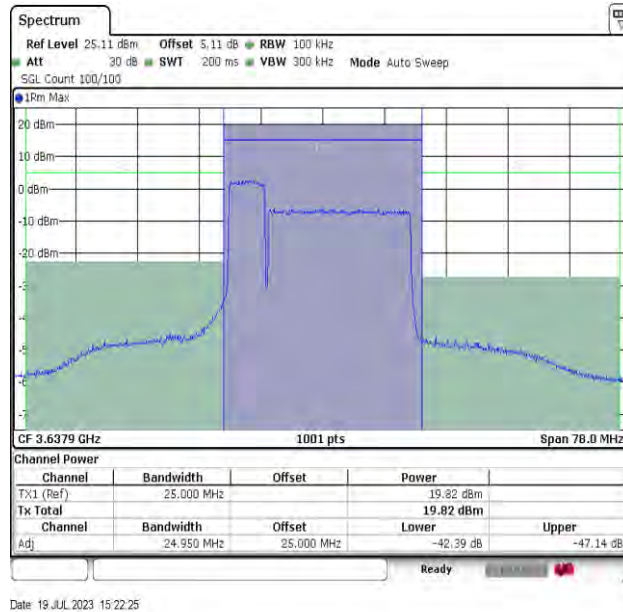
5MHz-20MHz-55898-56015 QPSK-QPSK



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5MHz-20MHz-56523-56640 QPSK-QPSK



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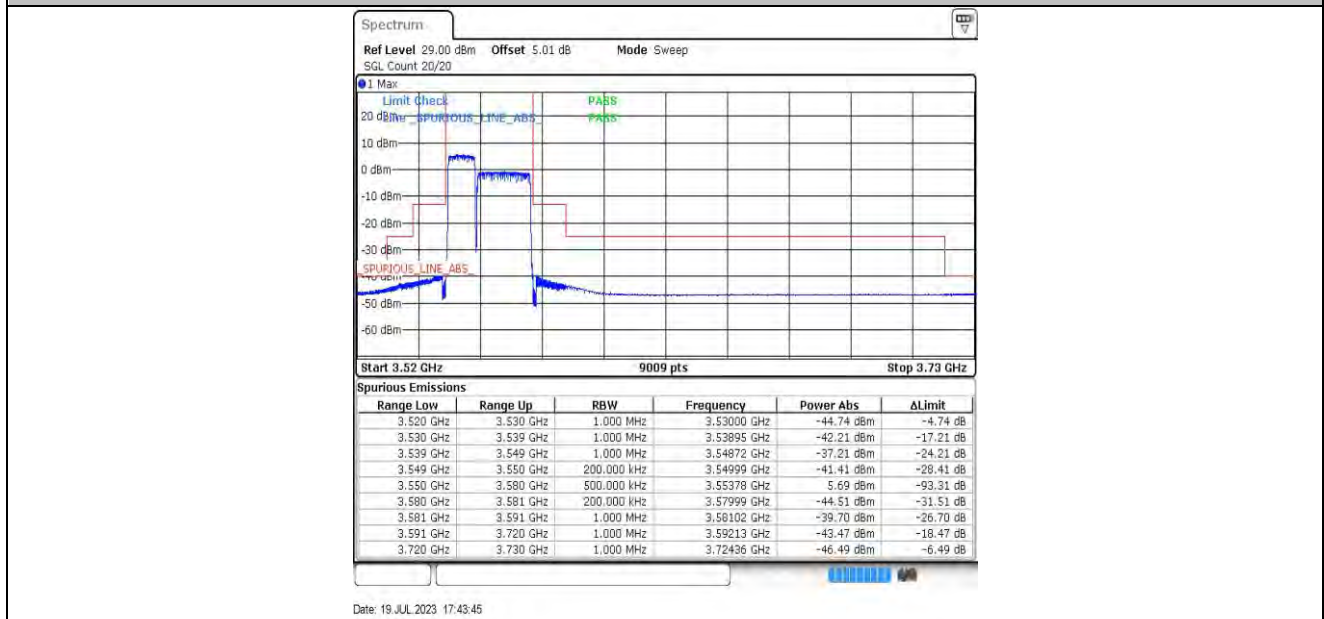
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Band Edge

Test Graphs



10MHz-20MHz-55295-55439



10MHz-20MHz-55295-55439



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10MHz-20MHz-56496-56640



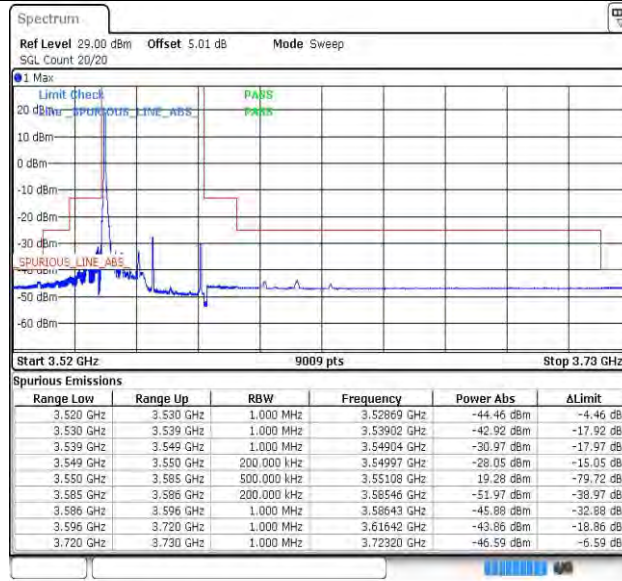
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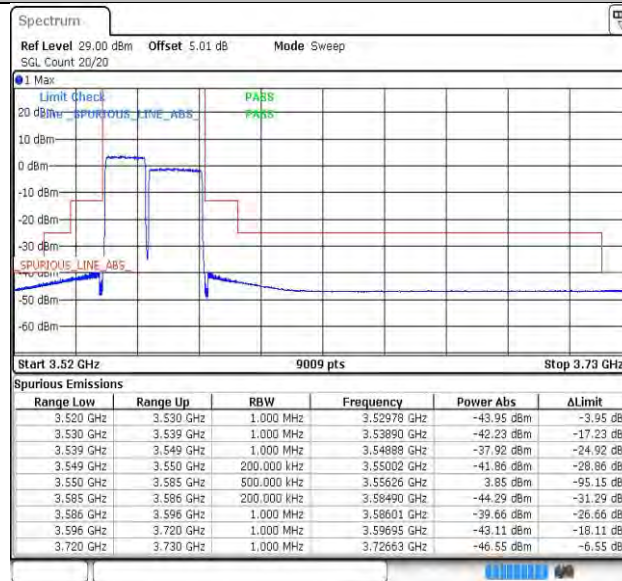
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Date: 19 JUL 2023 17:50:47

15MHz-20MHz-55318-55489



Date: 19 JUL 2023 17:52:54

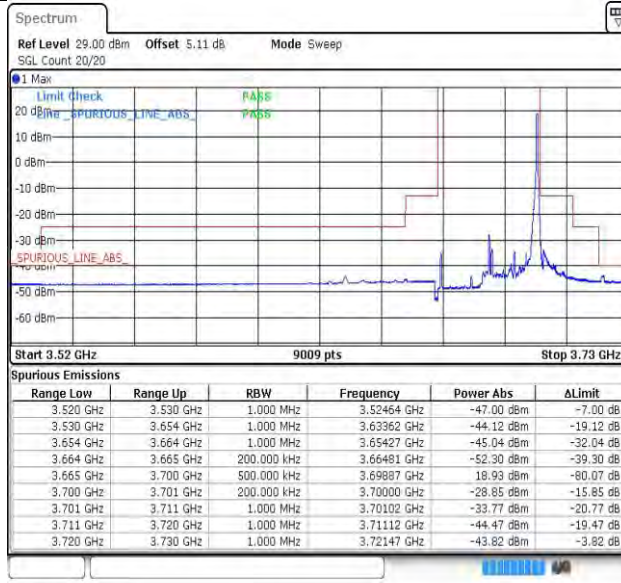
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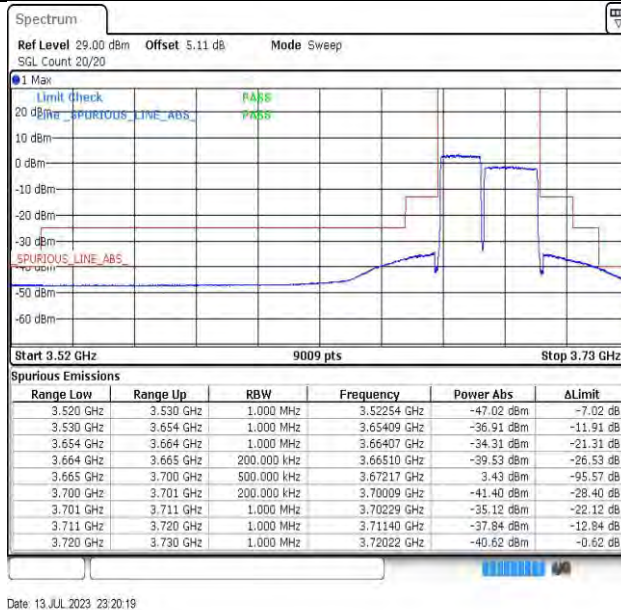
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15MHz-20MHz-56469-56640



15MHz-20MHz-56469-56640



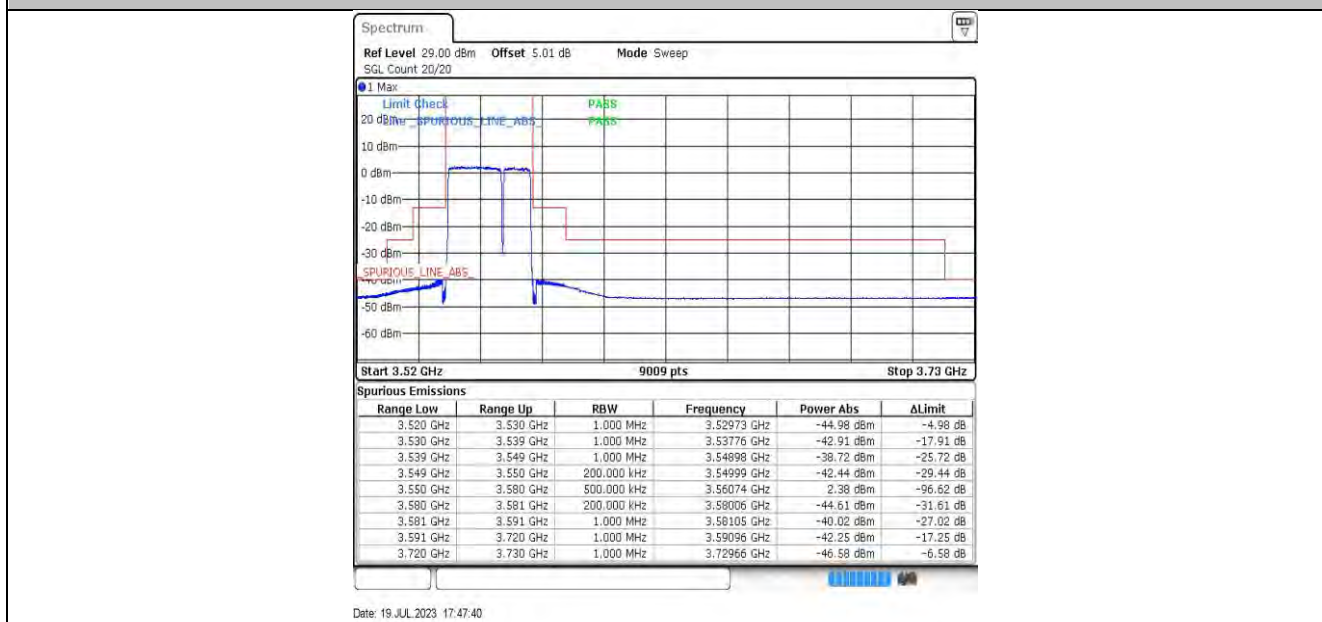
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20MHz-10MHz-55340-55484



20MHz-10MHz-55340-55484



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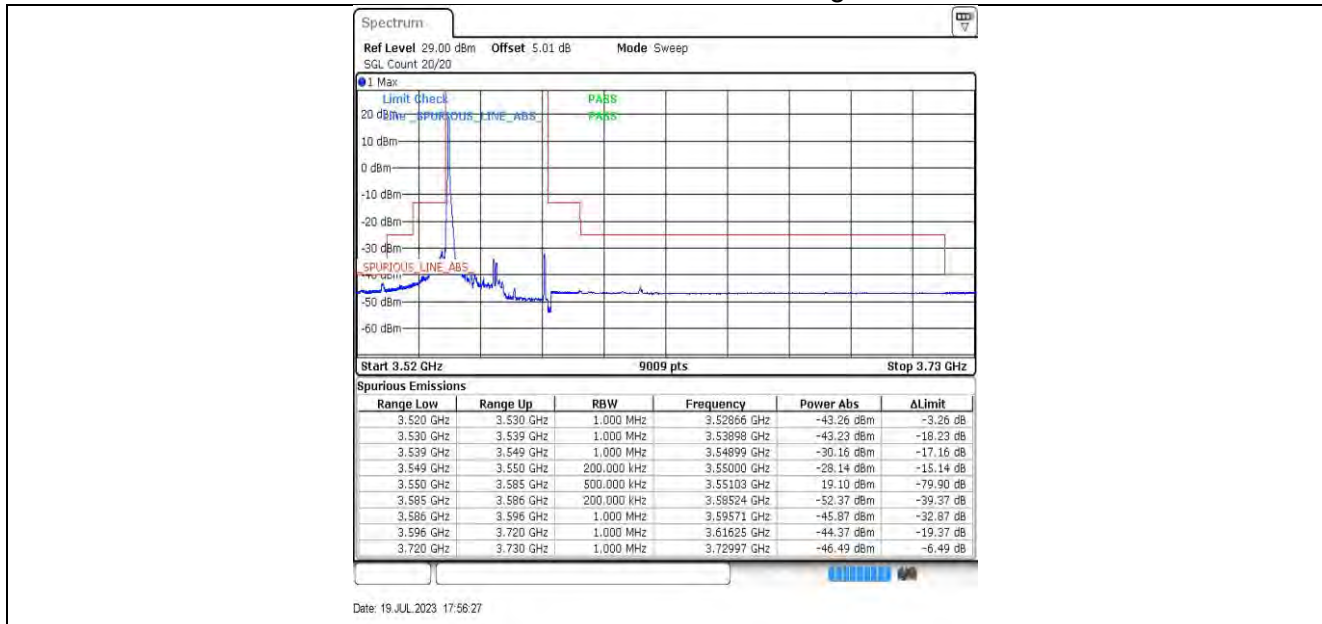
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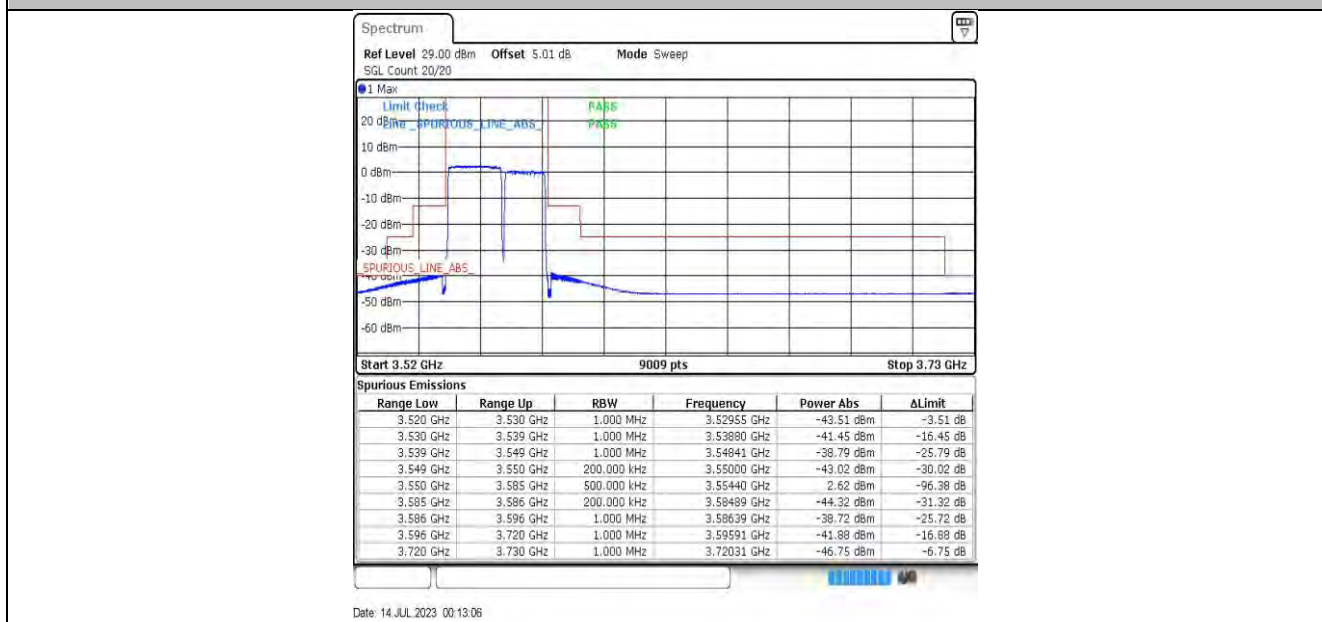
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20MHz-15MHz-55340-55511



20MHz-15MHz-55340-55511



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20MHz-15MHz-56491-56662



20MHz-15MHz-56491-56662



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20MHz-20MHz-55340-55538



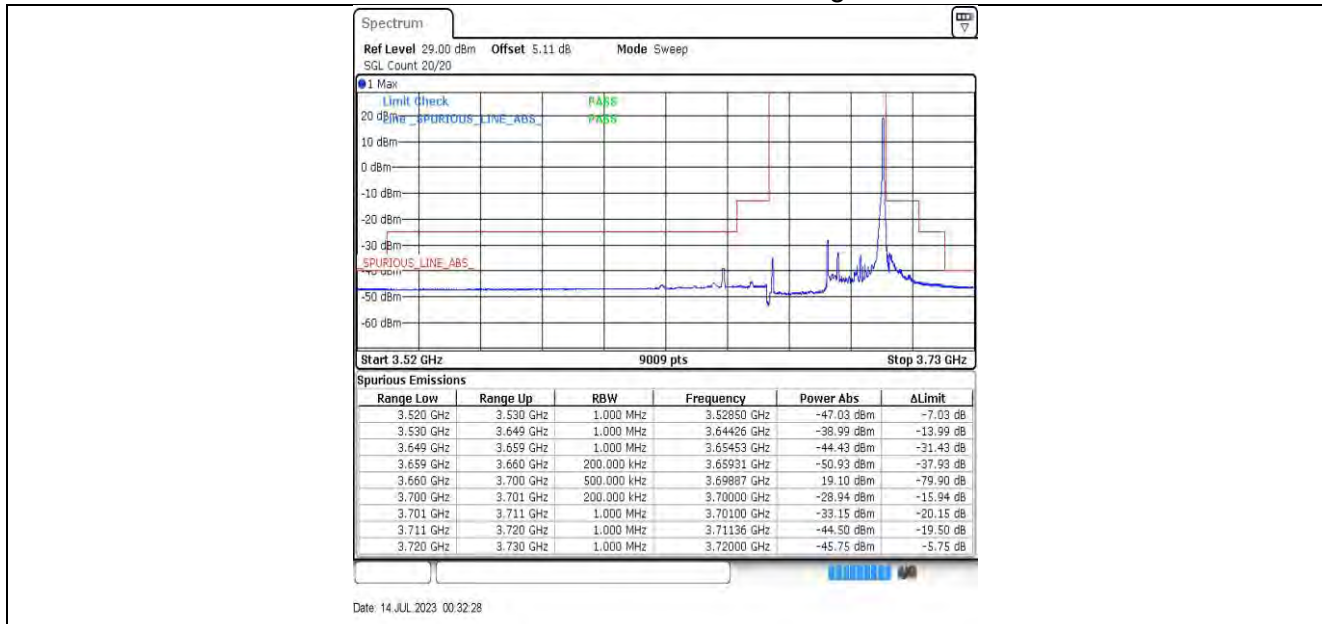
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20MHz-20MHz-56442-56640



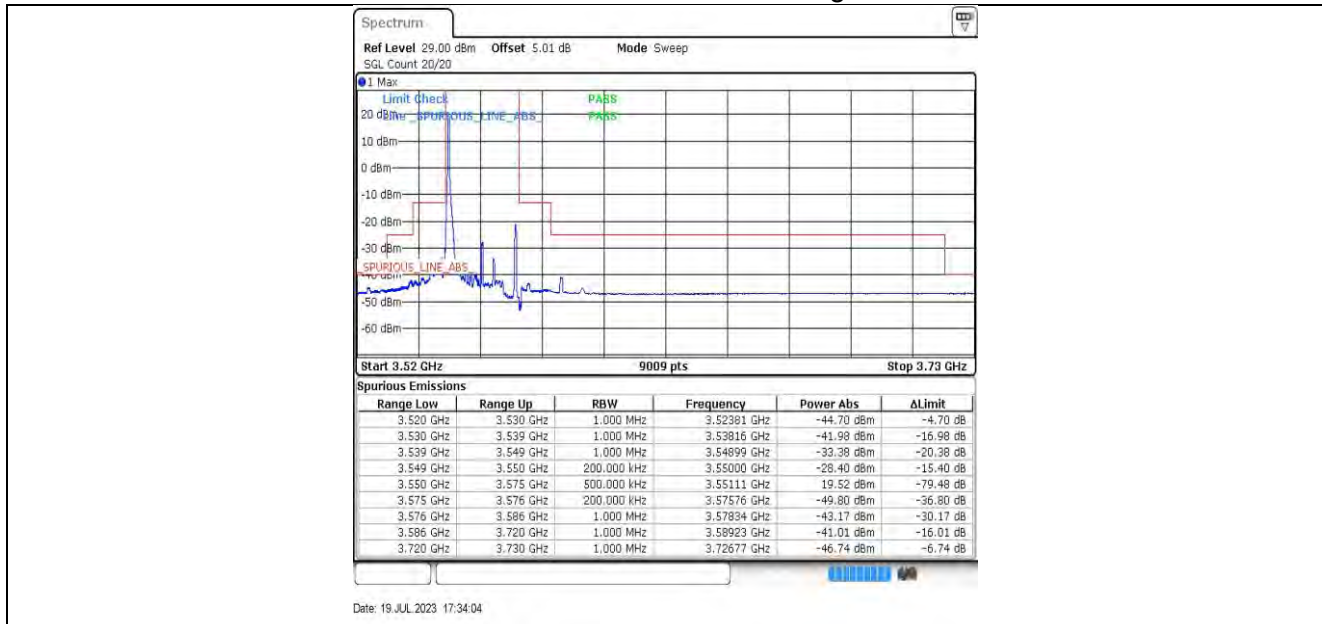
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20MHz-5MHz-55340-55457



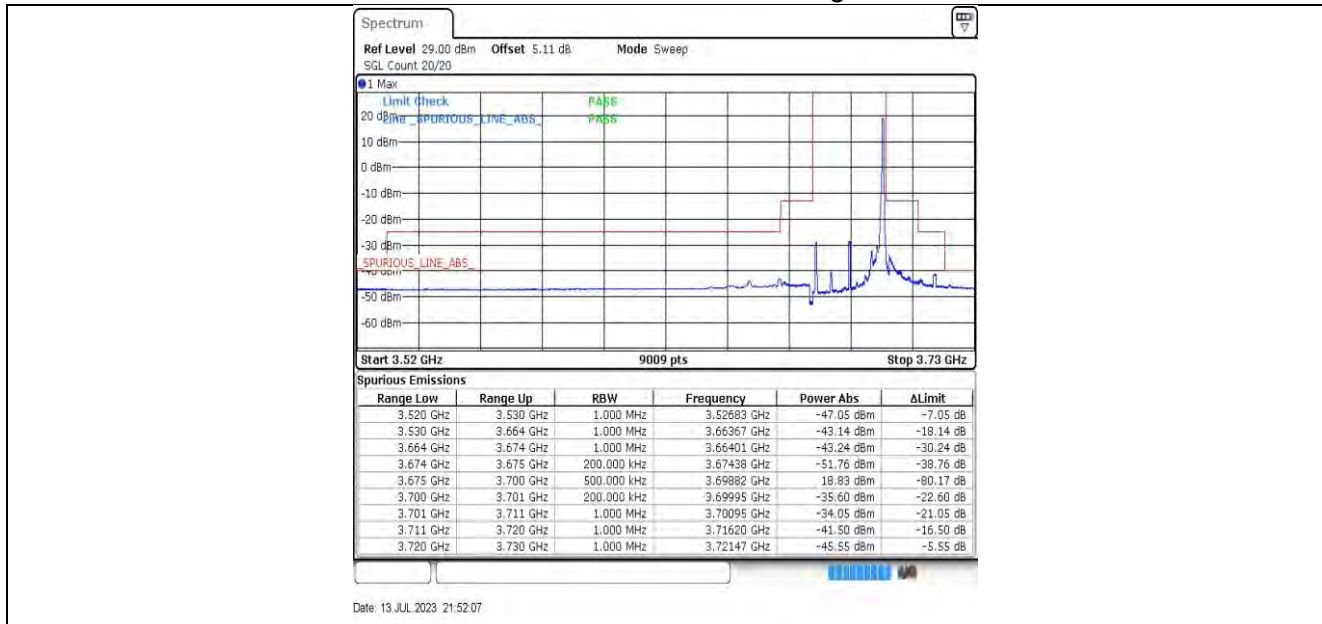
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20MHz-5MHz-56590-56707



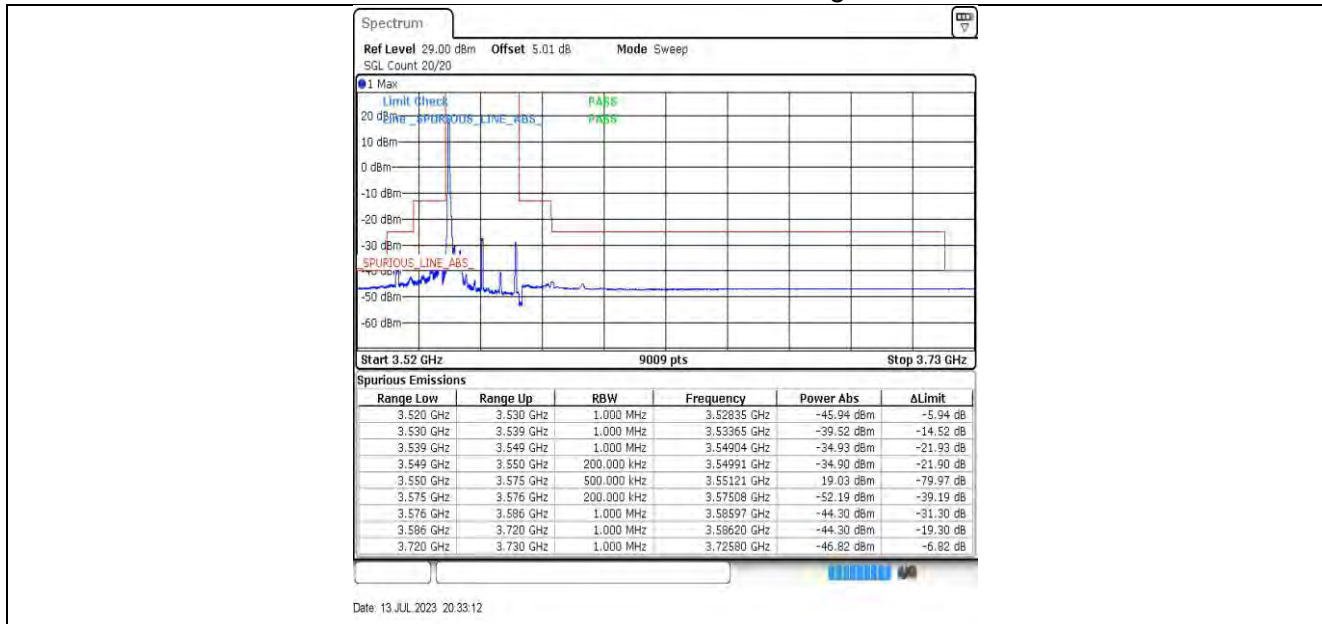
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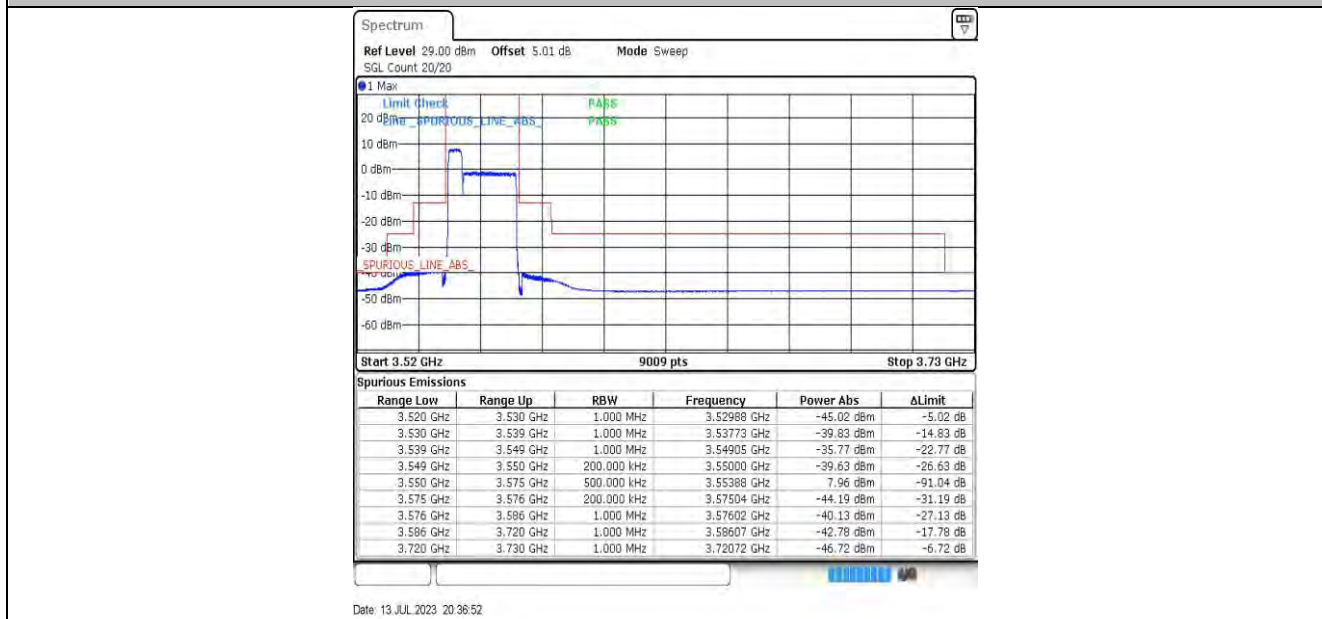
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5MHz-20MHz-55273-55390



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5MHz-20MHz-56523-56640



5MHz-20MHz-56523-56640



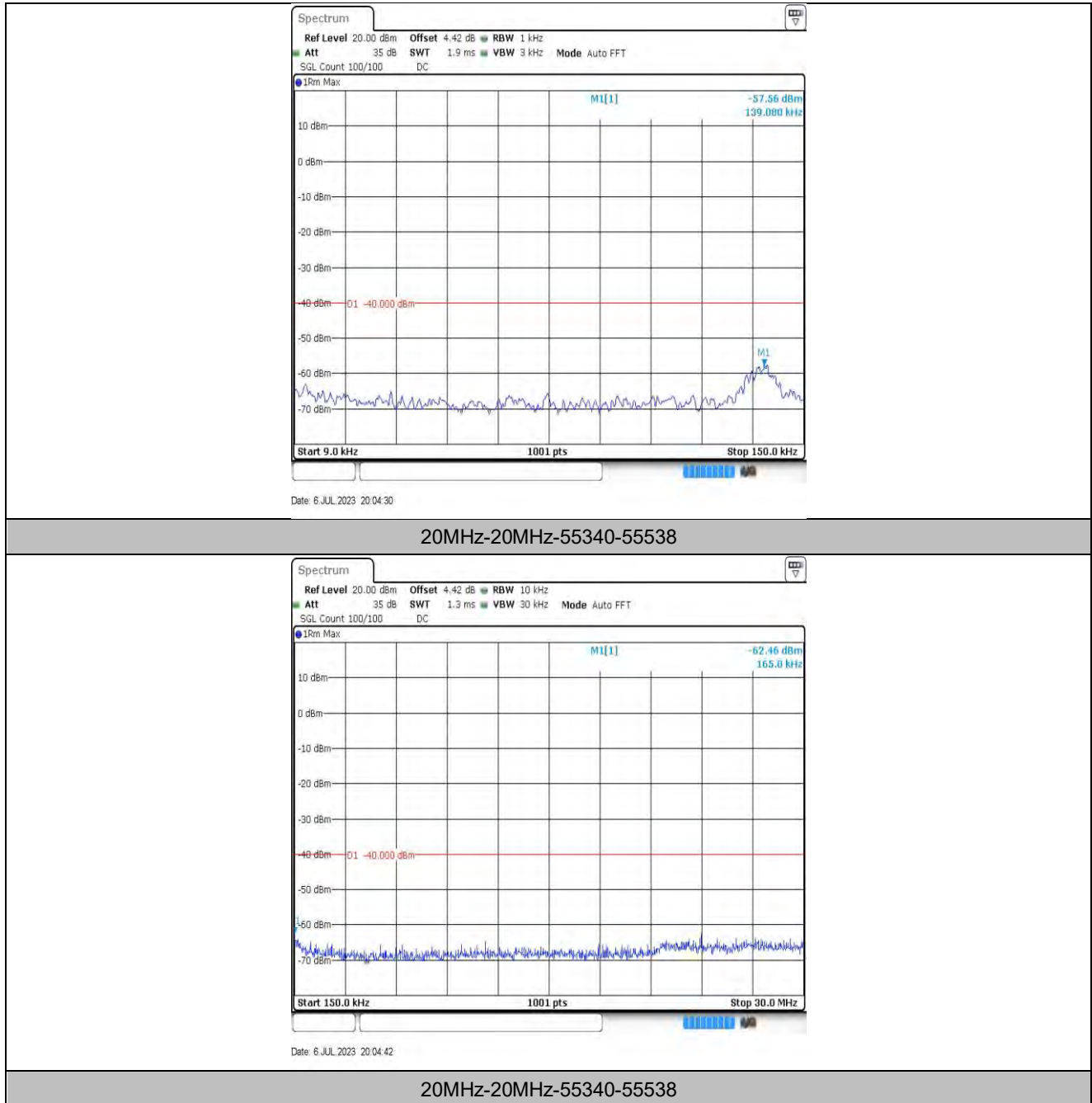
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Conducted Spurious Emission

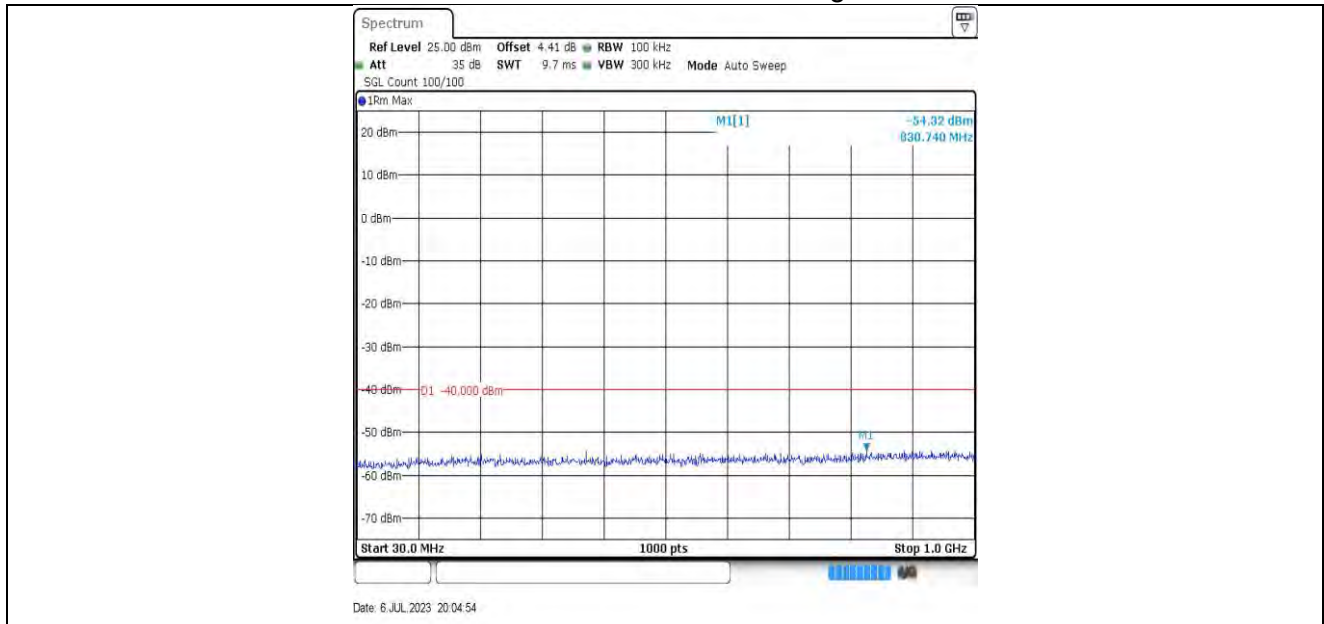
Test Graphs



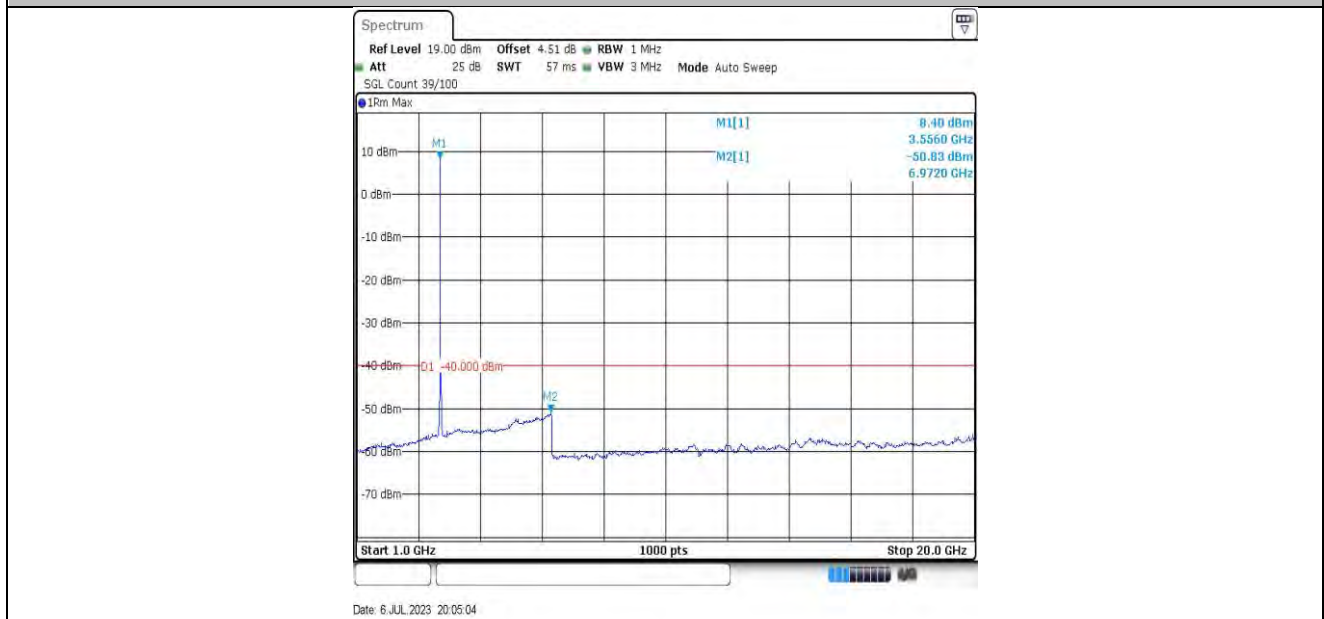
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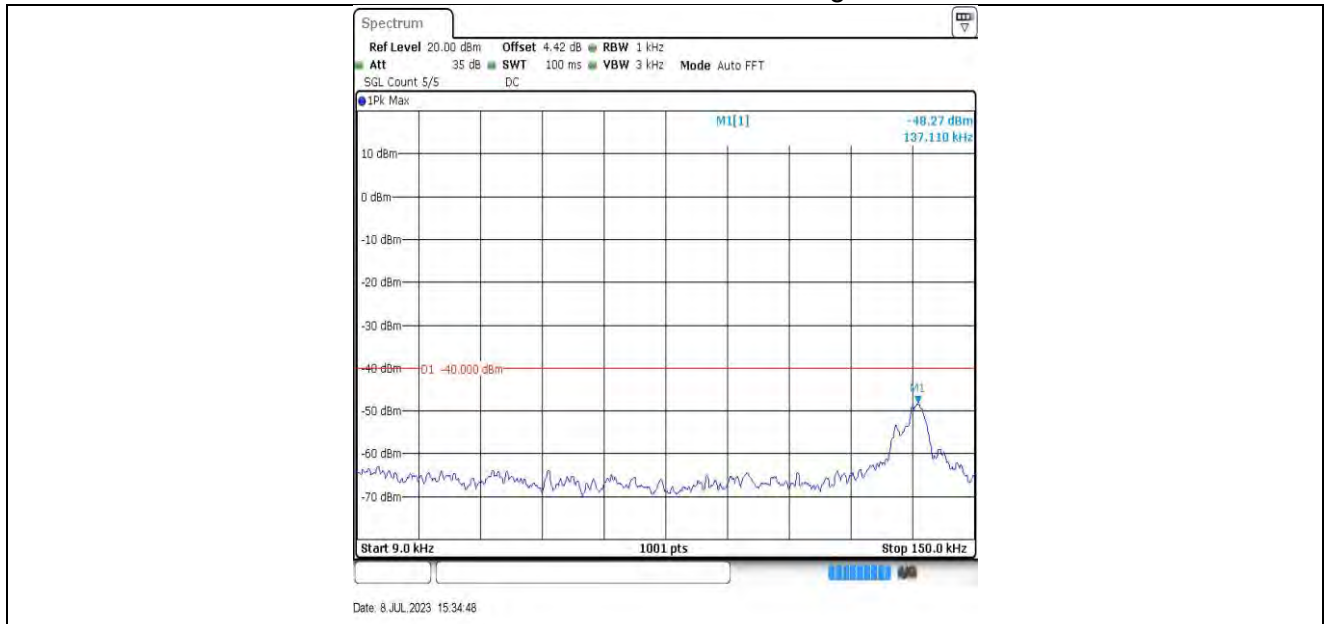


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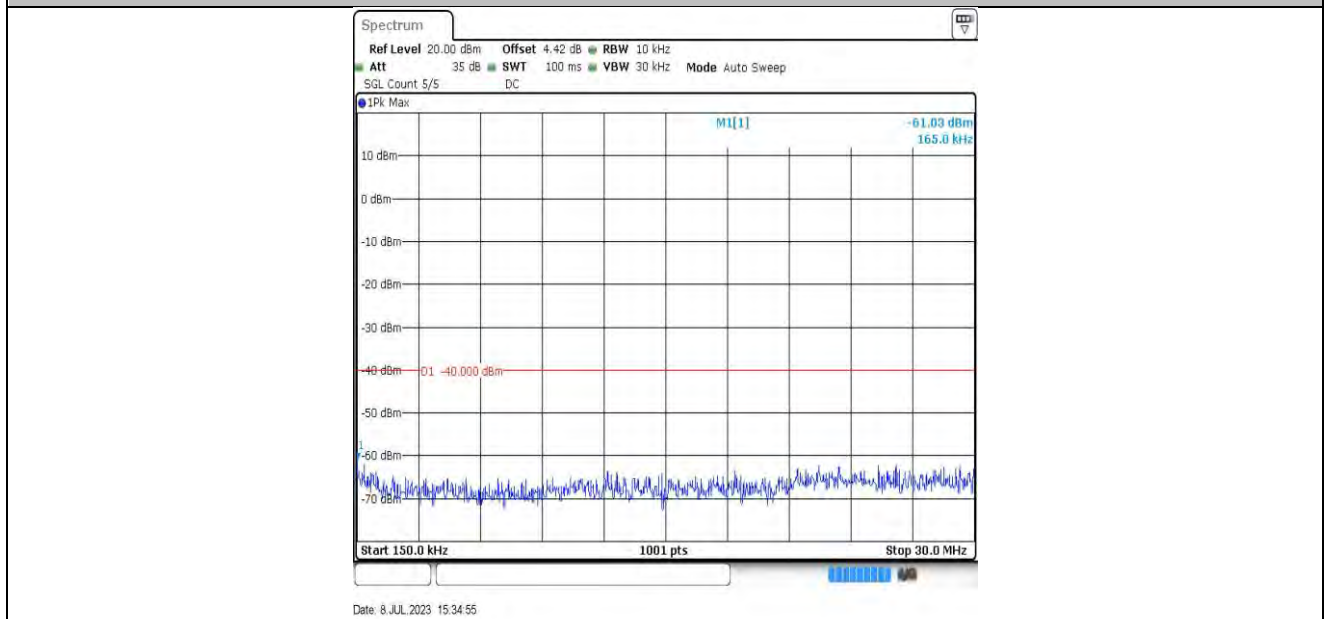
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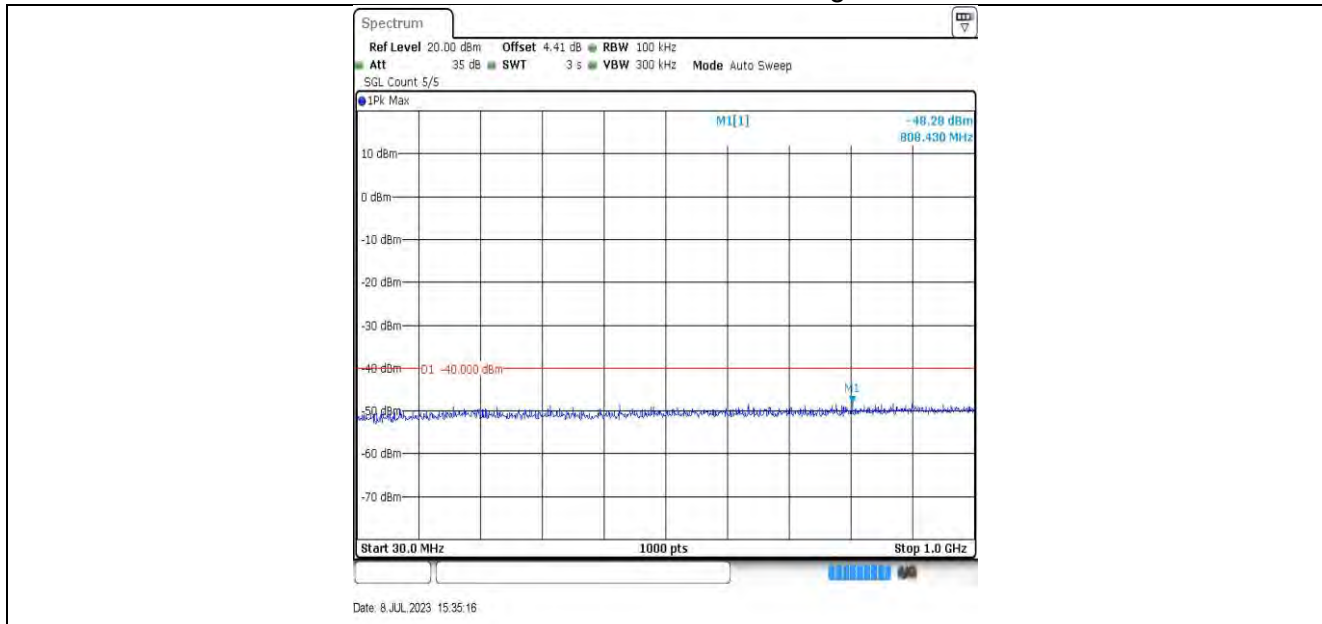
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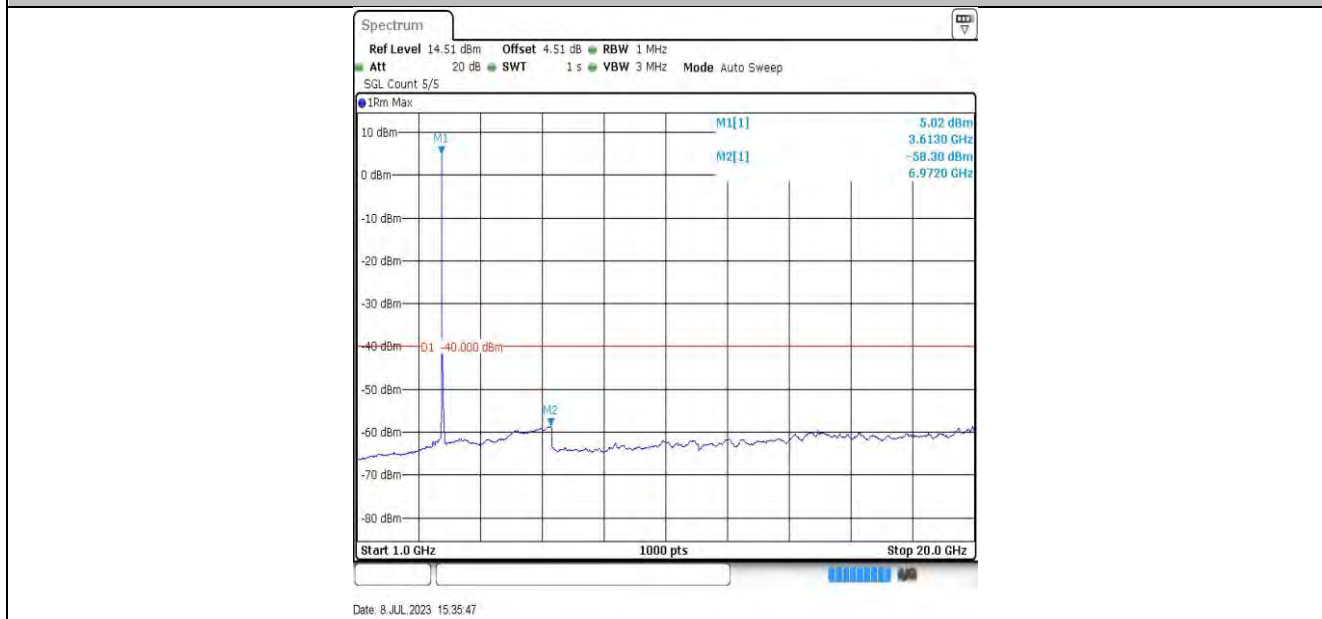
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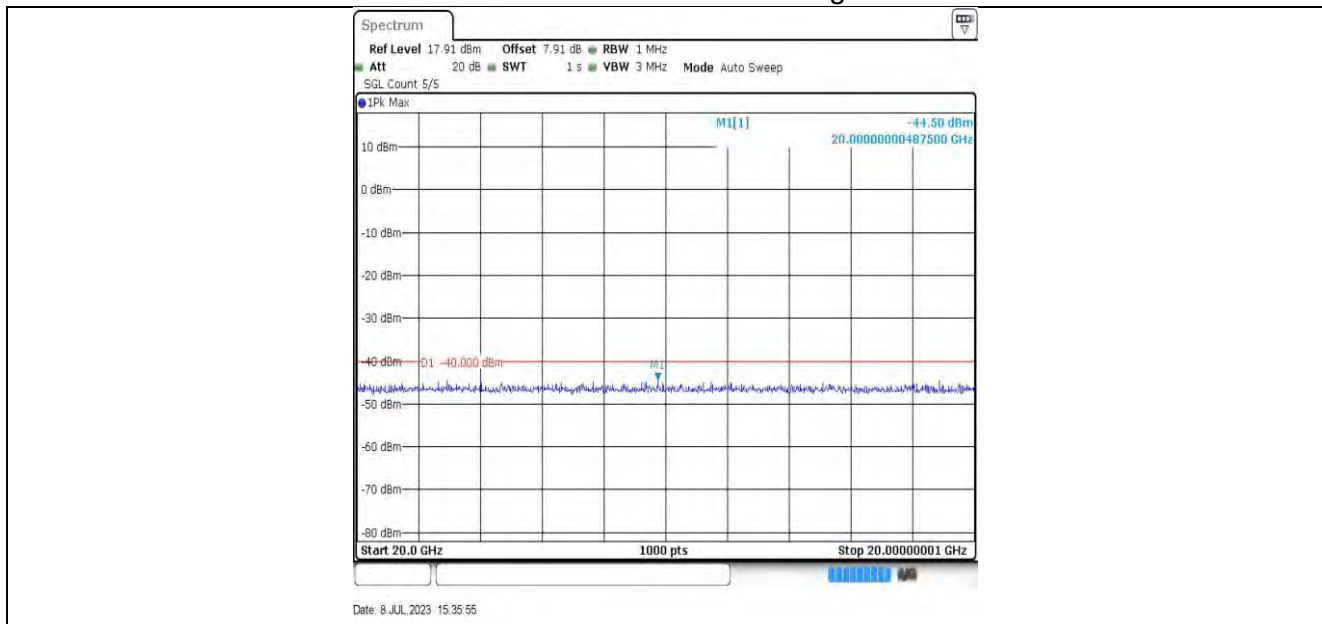
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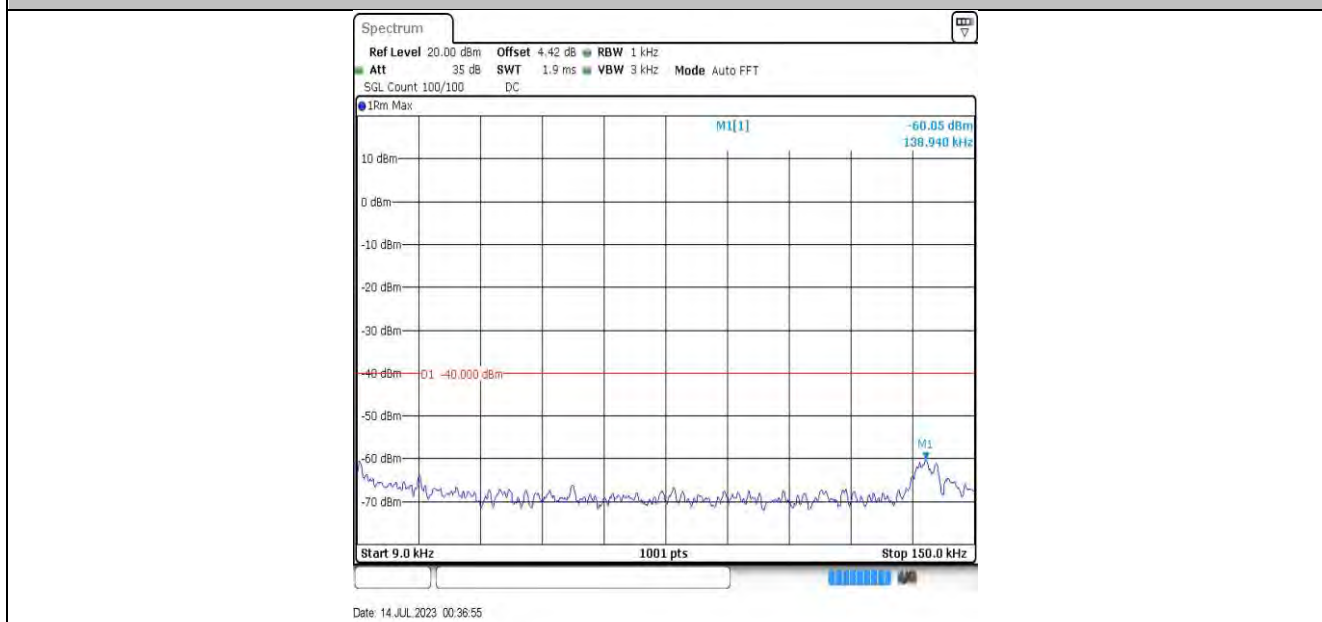
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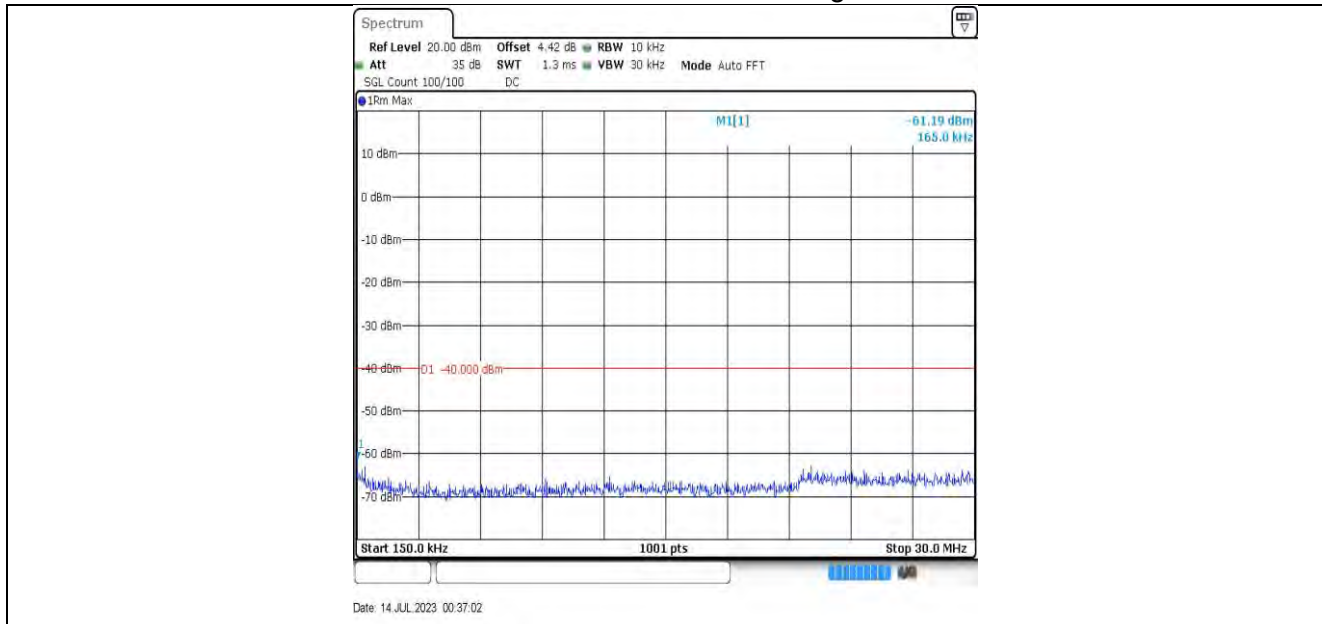
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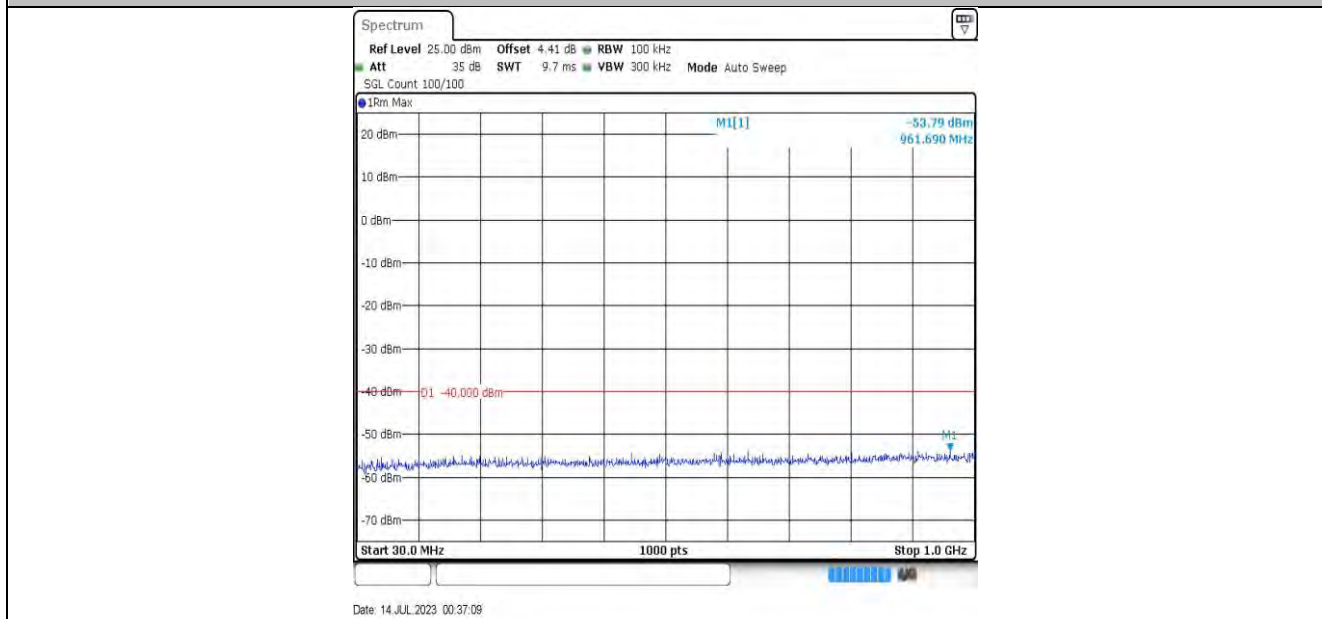
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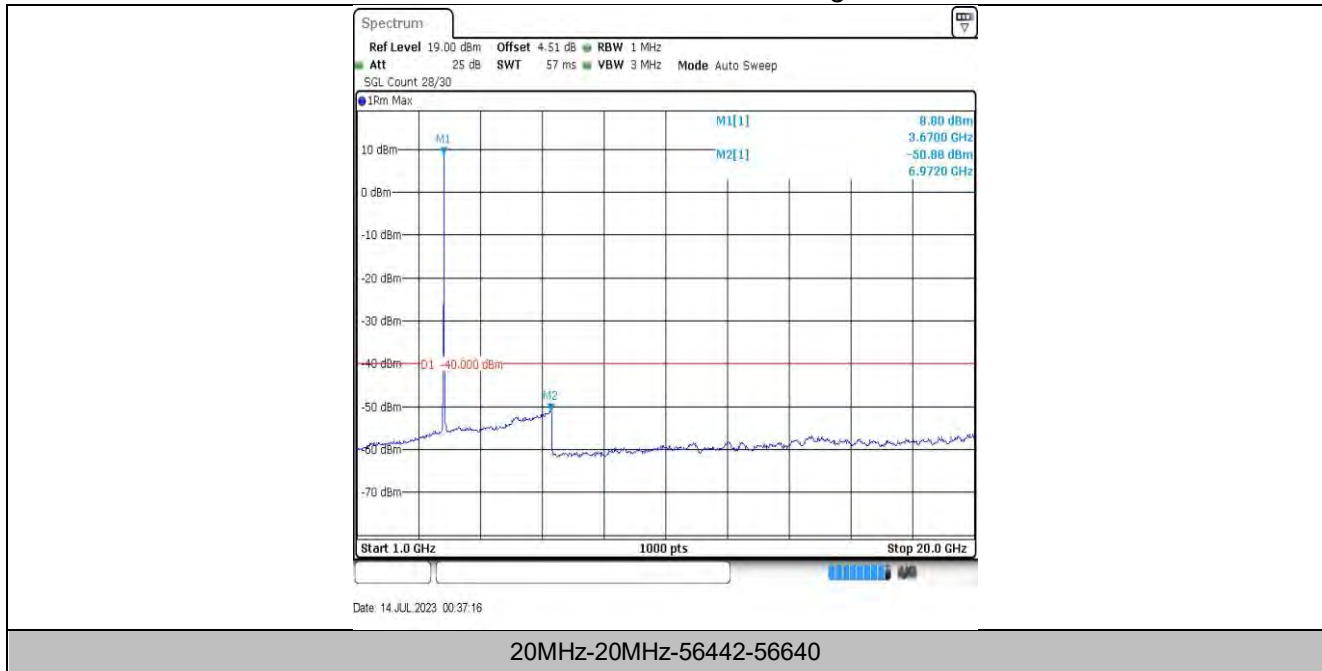


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Field Strength of Spurious Radiation

Test Band = LTE Band 48C_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	7102.3125	48.17	-46.09	35.85	-57.34	-40.00	17.34	Horizontal
2	8766.4583	41.86	-43.80	37.27	-59.93	-40.00	19.93	Horizontal
3	10312.7292	42.69	-41.10	38.78	-54.89	-40.00	14.89	Horizontal
4	11470.3958	38.29	-39.98	39.31	-57.64	-40.00	17.64	Horizontal
5	13709.0625	36.73	-38.00	40.23	-56.30	-40.00	16.30	Horizontal
6	17575.4583	34.63	-36.58	42.58	-54.63	-40.00	14.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7102.3125	50.38	-46.09	35.85	-55.13	-40.00	15.13	Vertical
2	8253.75	41.88	-44.40	36.56	-61.23	-40.00	21.23	Vertical
3	9290.6667	41.90	-42.94	37.86	-58.44	-40.00	18.44	Vertical
4	10312.7292	42.50	-41.10	38.78	-55.08	-40.00	15.08	Vertical
5	12060.7292	38.05	-39.07	39.16	-57.12	-40.00	17.12	Vertical
6	17722.0833	35.22	-37.87	43.52	-54.39	-40.00	14.39	Vertical



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Test Band = LTE Band 48C_ 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	7212.0417	45.25	-45.52	36.11	-59.42	-40.00	19.42	Horizontal
2	8355.3333	42.13	-44.45	36.70	-60.88	-40.00	20.88	Horizontal
3	10312.7292	43.22	-41.10	38.78	-54.36	-40.00	14.36	Horizontal
4	12034.375	37.59	-38.85	39.18	-57.34	-40.00	17.34	Horizontal
5	14307.5417	36.88	-38.77	40.65	-56.50	-40.00	16.50	Horizontal
6	17420.2083	34.30	-36.99	41.59	-56.36	-40.00	16.36	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7212.0417	43.72	-45.52	36.11	-60.95	-40.00	20.95	Vertical
2	8735.3125	41.87	-43.75	37.23	-59.91	-40.00	19.91	Vertical
3	10312.7292	42.89	-41.10	38.78	-54.69	-40.00	14.69	Vertical
4	12025.75	37.33	-38.78	39.18	-57.52	-40.00	17.52	Vertical
5	13706.6667	36.60	-37.99	40.23	-56.42	-40.00	16.42	Vertical
6	17969.3333	33.87	-37.07	45.10	-53.35	-40.00	13.35	Vertical



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Test Band = LTE Band 48C_ 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	7322.25	44.86	-45.91	36.37	-59.94	-40.00	19.94	Horizontal
2	8791.8542	41.72	-43.85	37.31	-60.08	-40.00	20.08	Horizontal
3	10312.7292	42.33	-41.10	38.78	-55.25	-40.00	15.25	Horizontal
4	12088.0417	38.23	-39.30	39.15	-57.18	-40.00	17.18	Horizontal
5	13760.3333	37.32	-38.29	40.35	-55.89	-40.00	15.89	Horizontal
6	17970.7708	34.41	-37.06	45.11	-52.80	-40.00	12.80	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7322.7292	44.12	-45.91	36.37	-60.67	-40.00	20.67	Vertical
2	8802.875	41.97	-43.85	37.32	-59.82	-40.00	19.82	Vertical
3	10312.7292	43.34	-41.10	38.78	-54.24	-40.00	14.24	Vertical
4	12052.5833	37.92	-39.00	39.17	-57.17	-40.00	17.17	Vertical
5	13751.2292	36.81	-38.24	40.33	-56.36	-40.00	16.36	Vertical
6	17960.2292	35.31	-37.09	45.05	-52.00	-40.00	12.00	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
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	VH	NT	15.90	0.004454	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	VL	NT	21.20	0.005939	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	VN	NT	25.30	0.007087	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	NV	-30	31.30	0.008768	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	NV	-20	26.50	0.007423	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	NV	-10	19.10	0.005350	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	NV	0	26.80	0.007507	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	NV	10	24.50	0.006863	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	NV	20	31.70	0.008880	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	NV	30	29.30	0.008208	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	NV	40	35.10	0.009832	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	NV	50	26.20	0.007339	PASS

---End of Attachment---



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