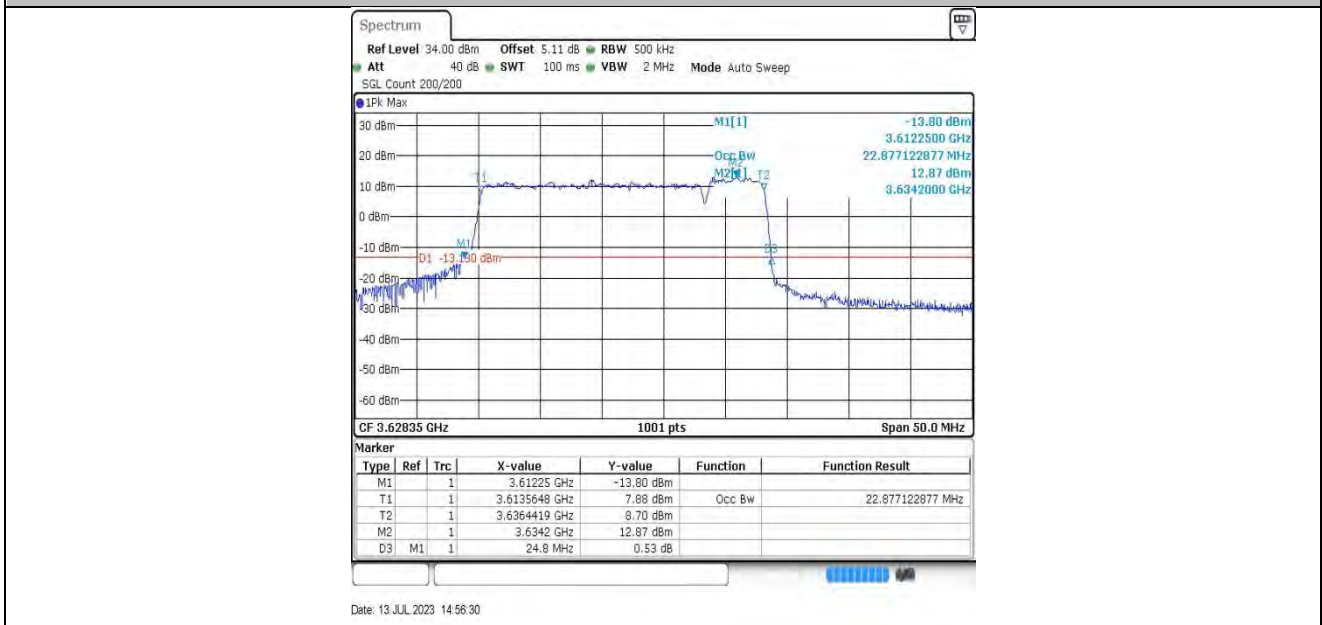


20MHz-5MHz-55340-55457 64QAM-64QAM

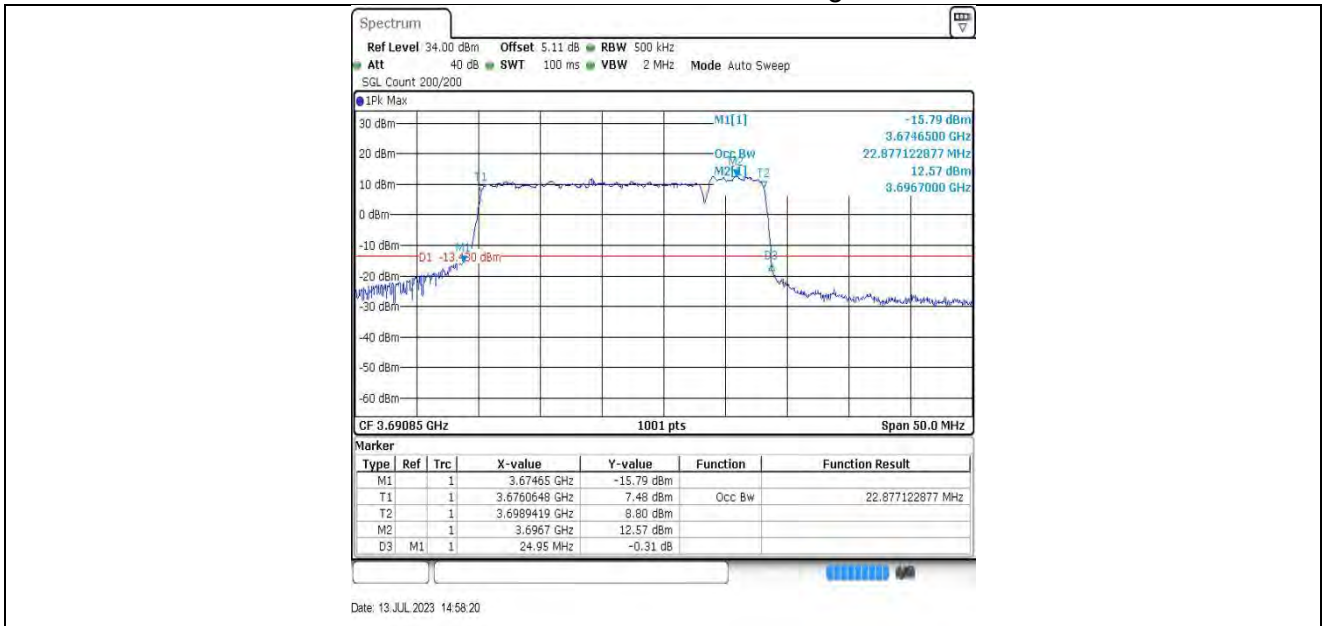


20MHz-5MHz-55965-56082 64QAM-64QAM

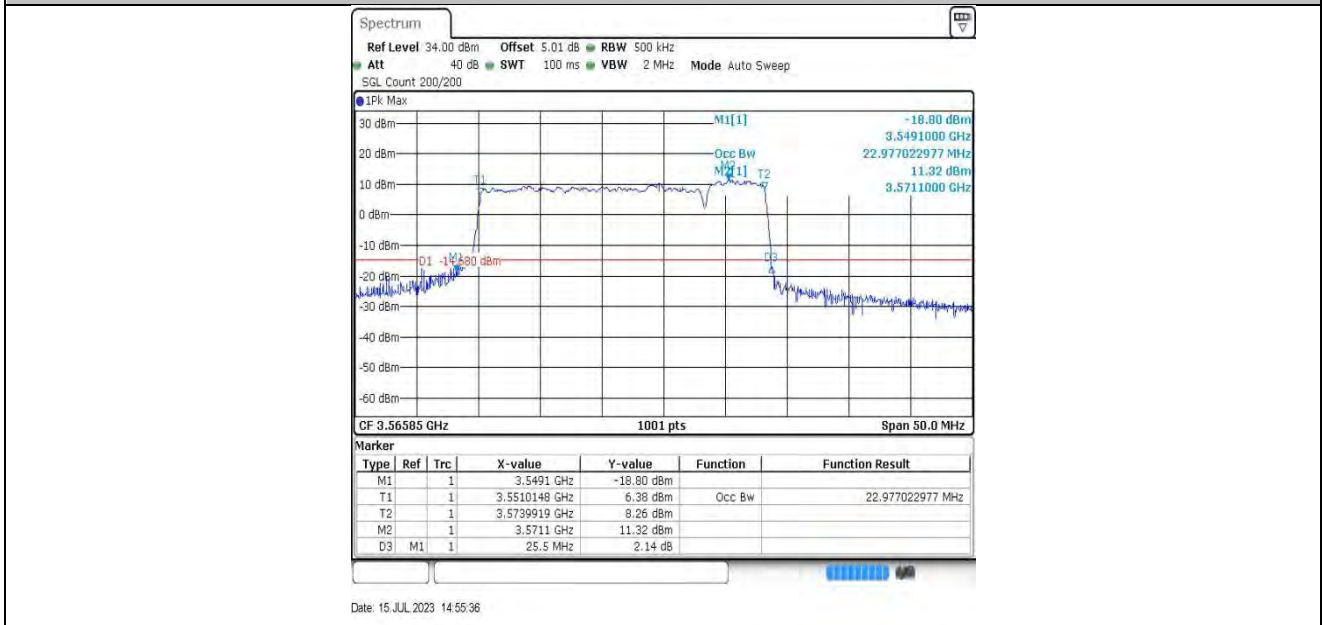


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20MHz-5MHz-56590-56707 64QAM-64QAM



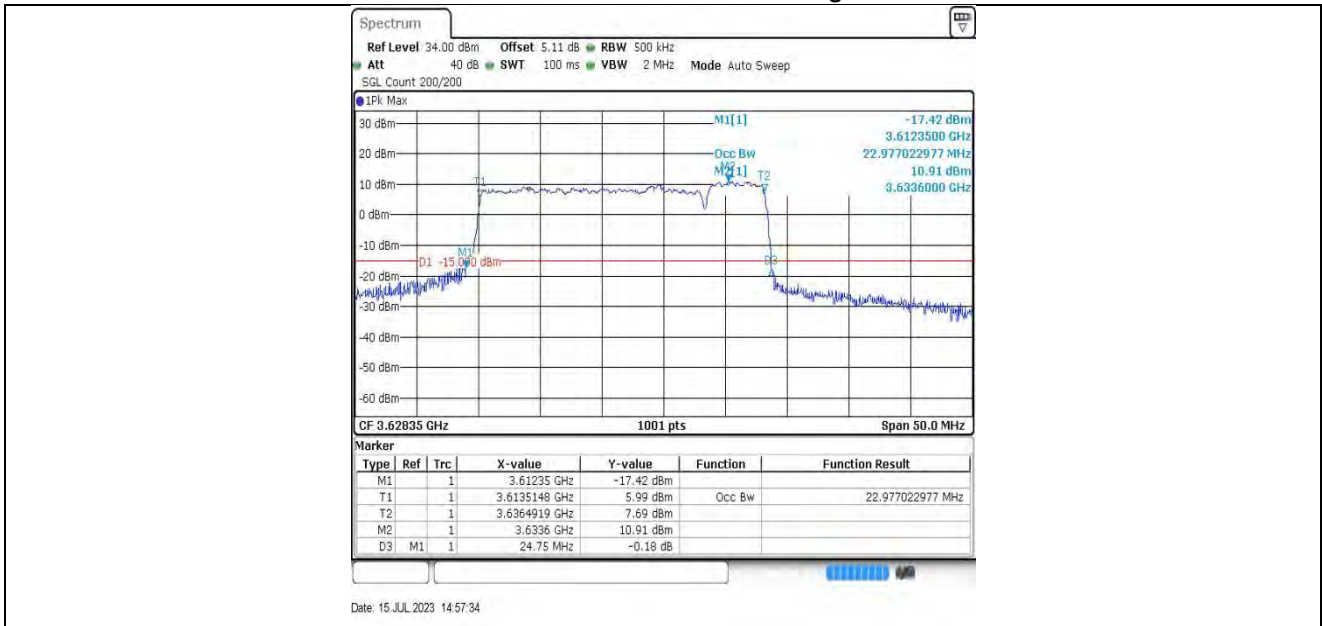
20MHz-5MHz-55340-55457 256QAM-256QAM



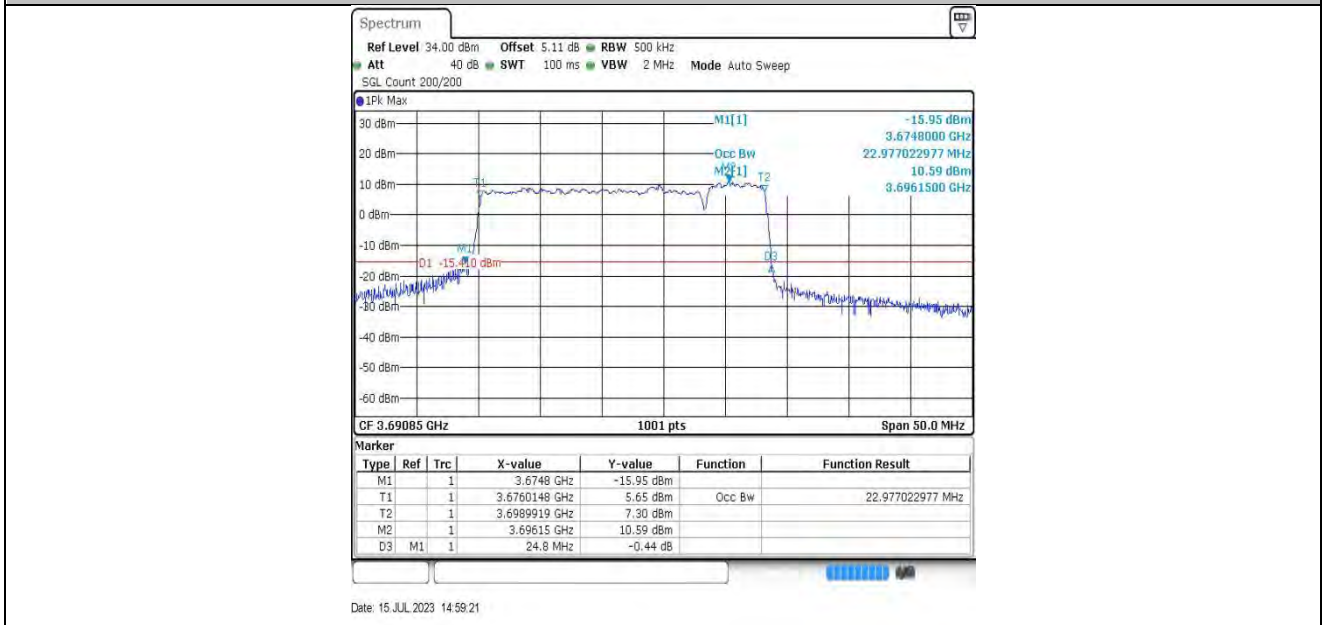
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20MHz-5MHz-55965-56082 256QAM-256QAM



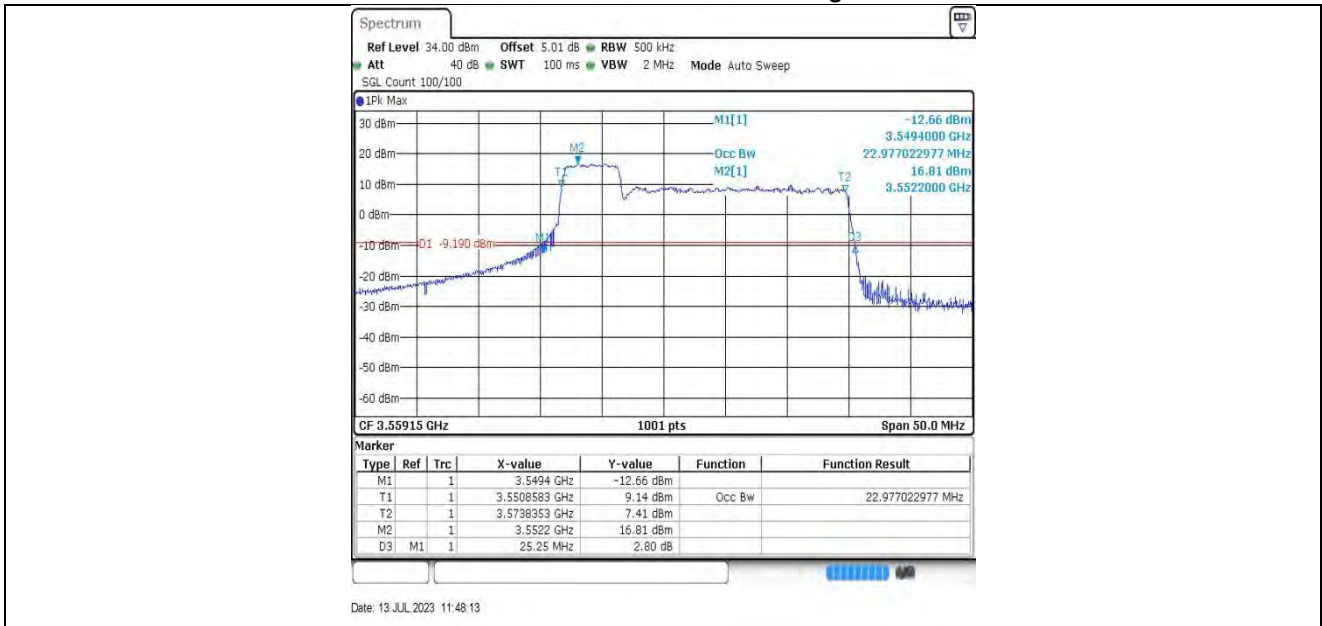
20MHz-5MHz-56590-56707 256QAM-256QAM



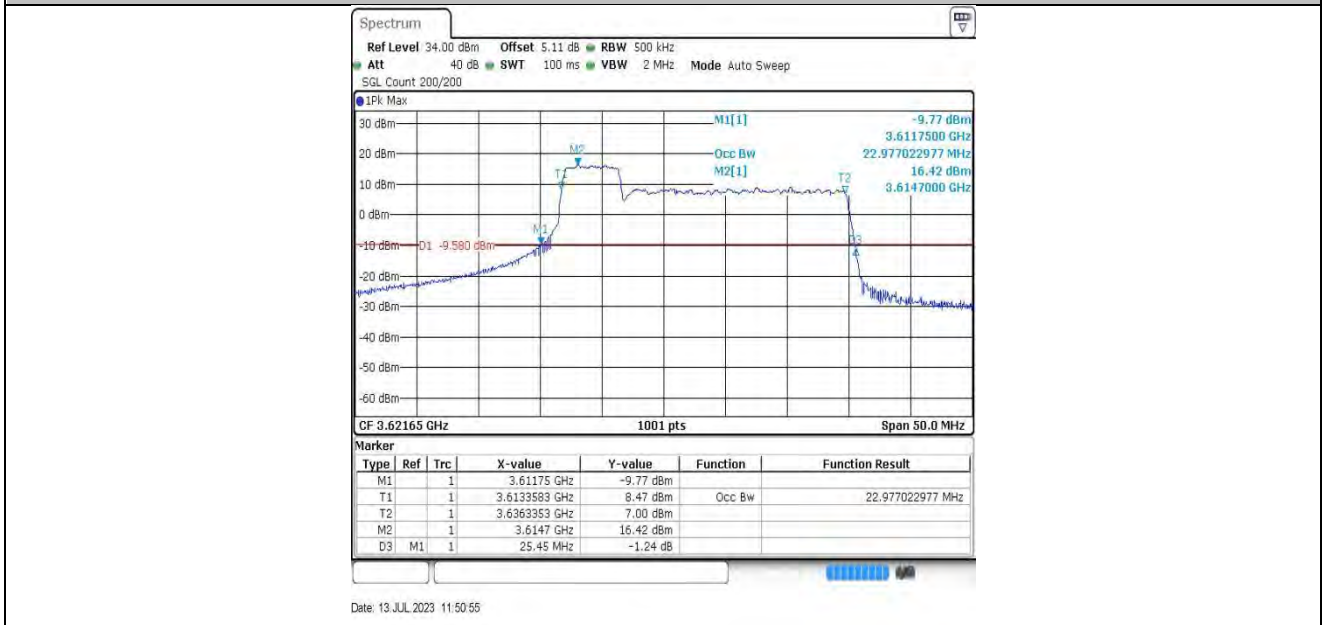
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5MHz-20MHz-55273-55390 QPSK-QPSK



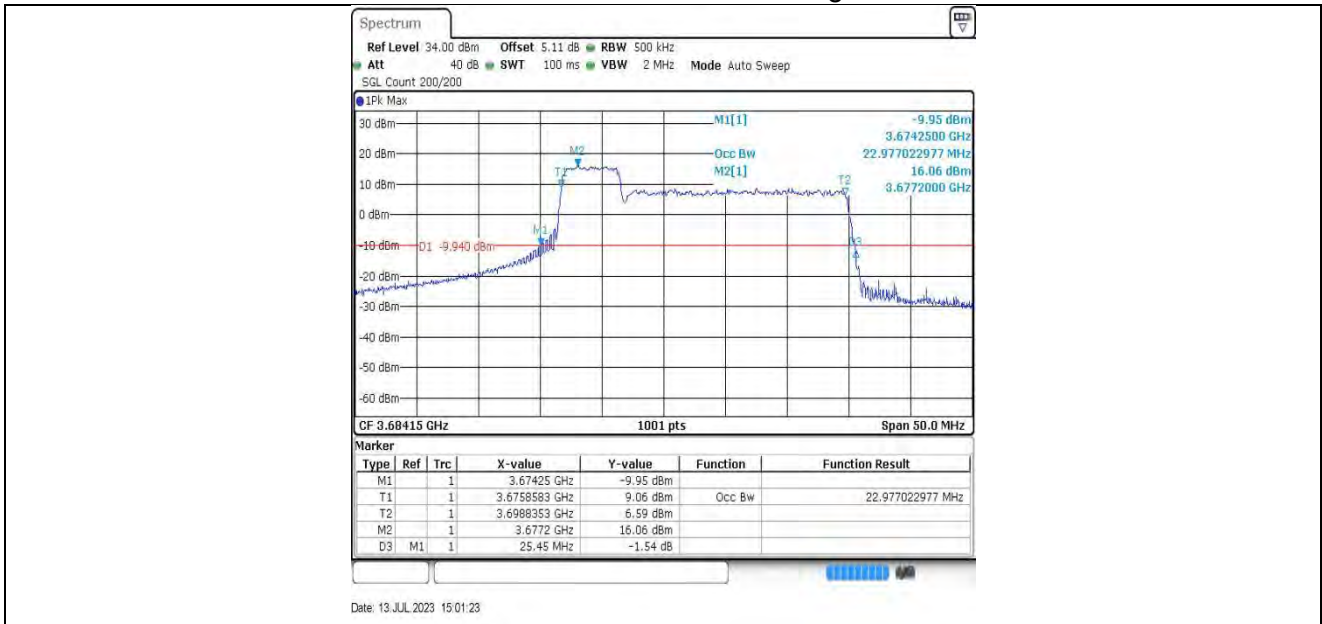
5MHz-20MHz-55898-56015 QPSK-QPSK



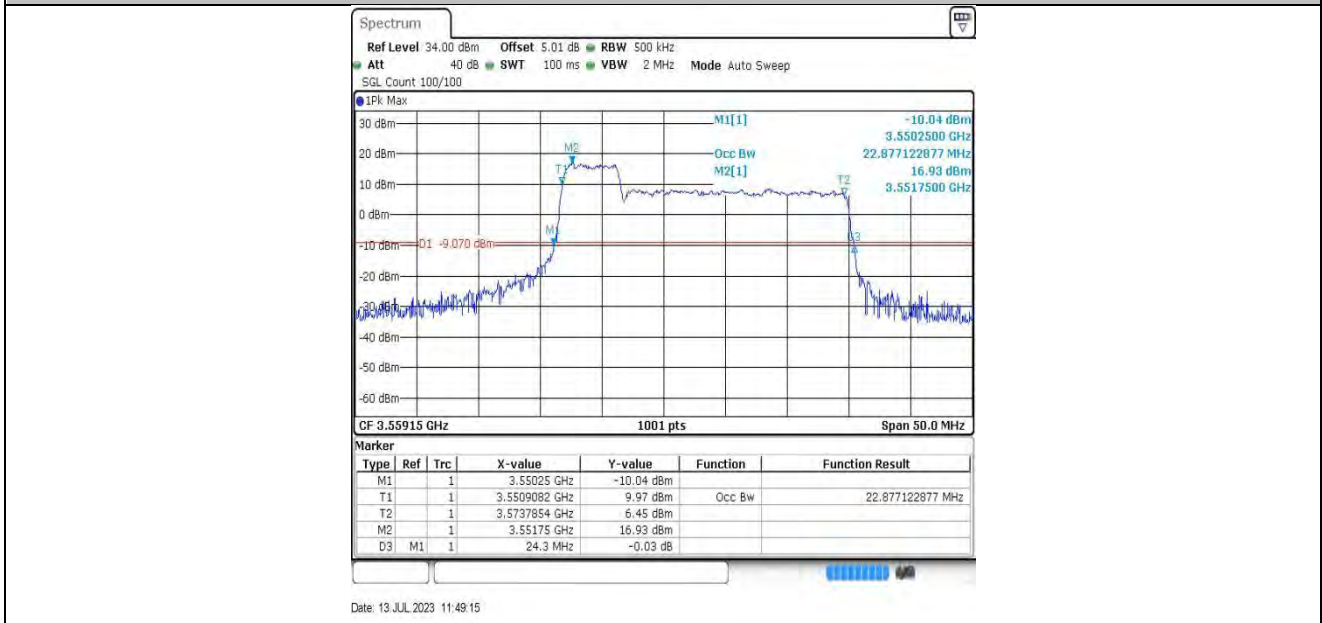
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5MHz-20MHz-56523-56640 QPSK-QPSK



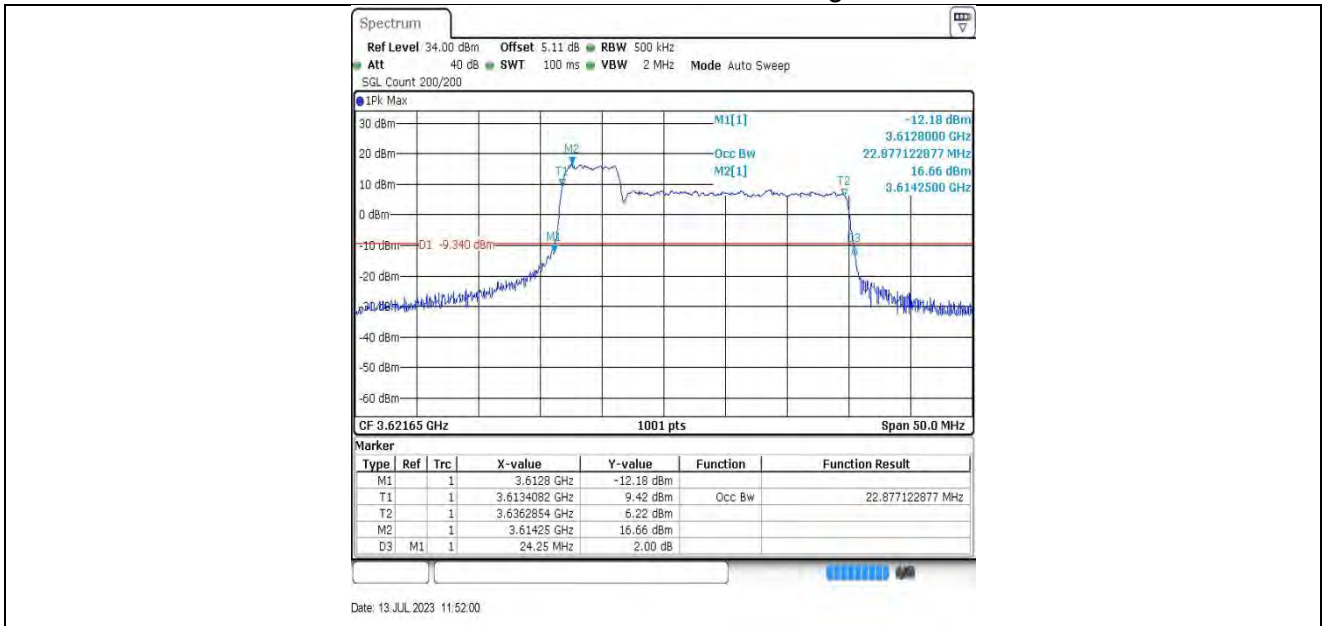
5MHz-20MHz-55273-55390 16QAM-16QAM



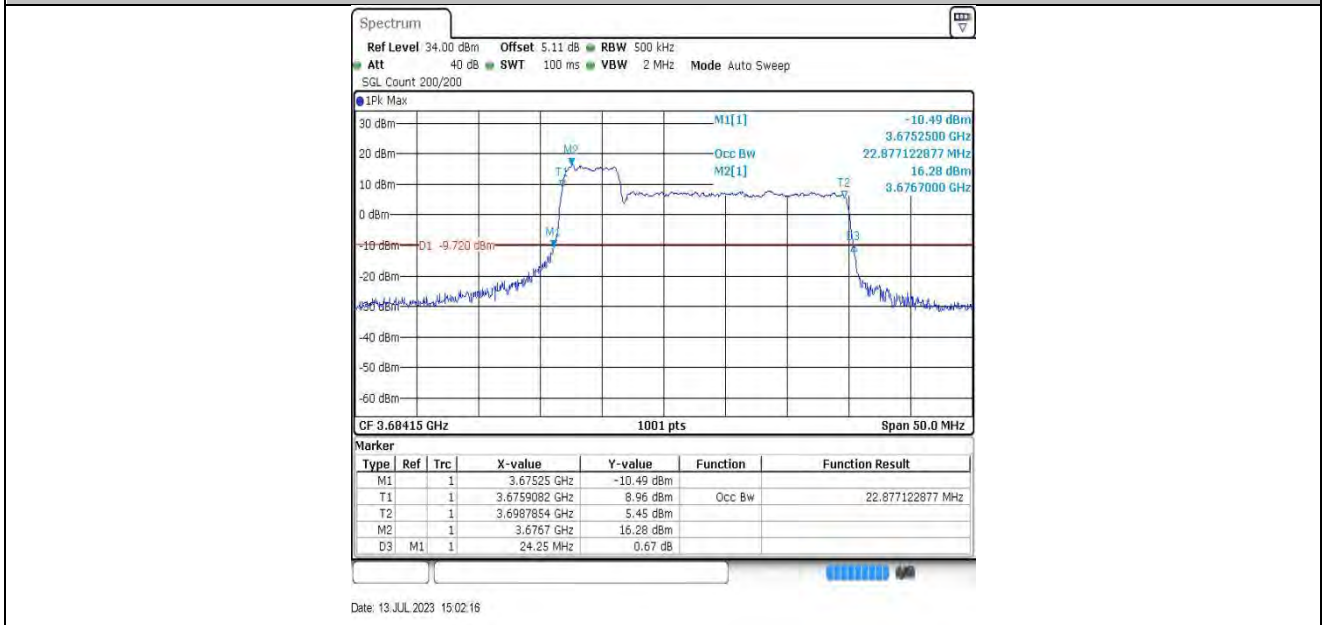
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5MHz-20MHz-55898-56015 16QAM-16QAM



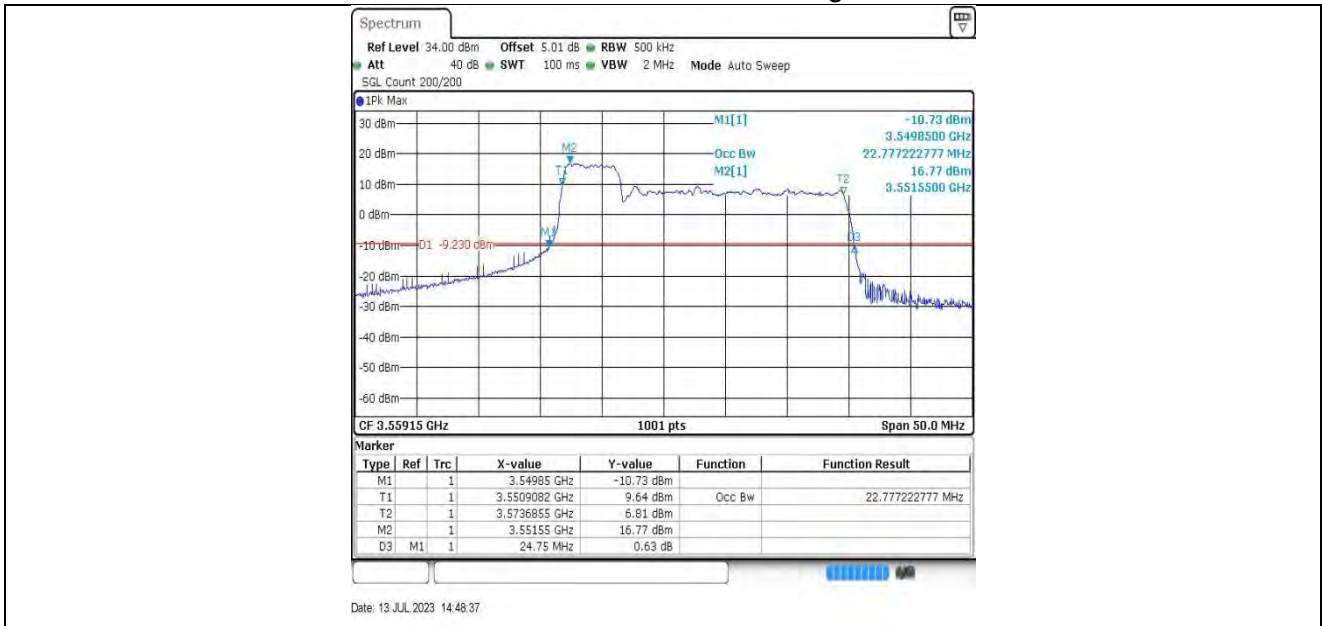
5MHz-20MHz-56523-56640 16QAM-16QAM



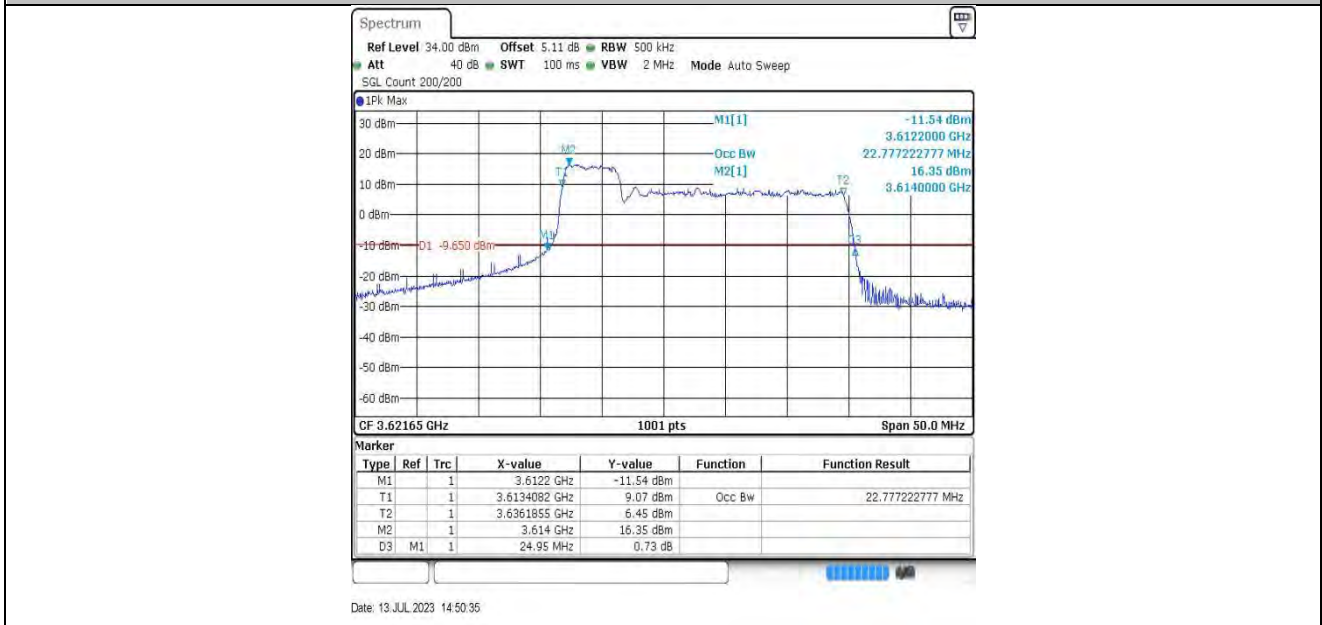
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5MHz-20MHz-55273-55390 64QAM-64QAM



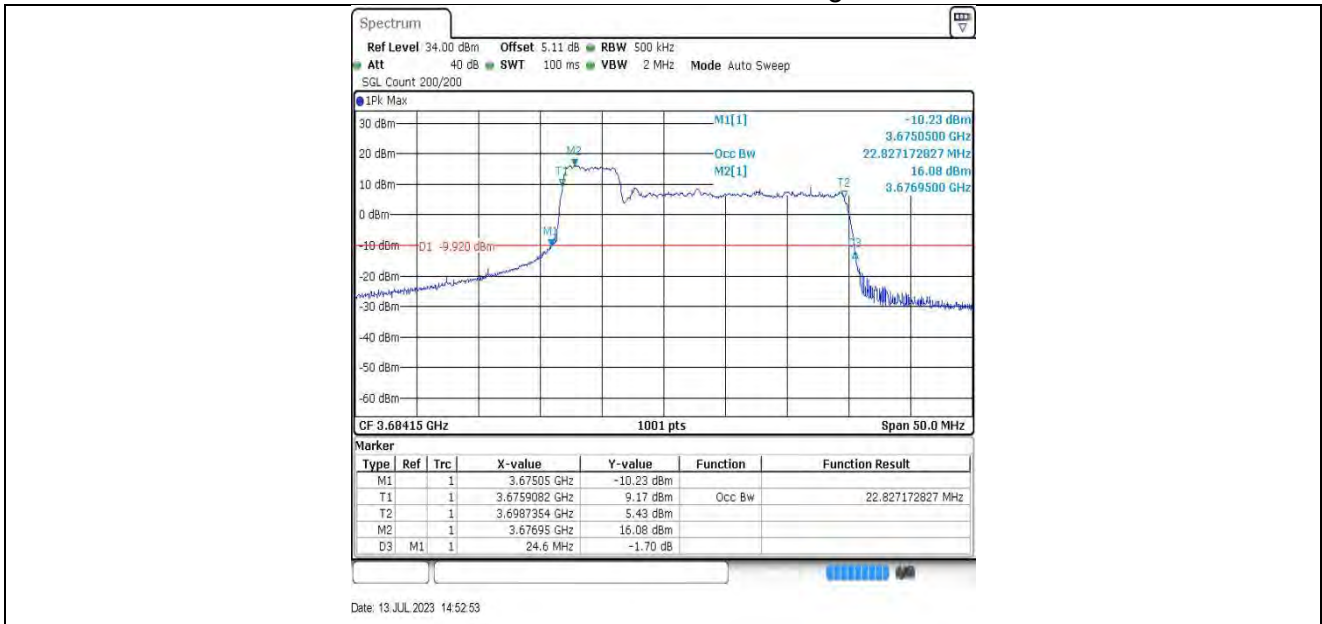
5MHz-20MHz-55898-56015 64QAM-64QAM



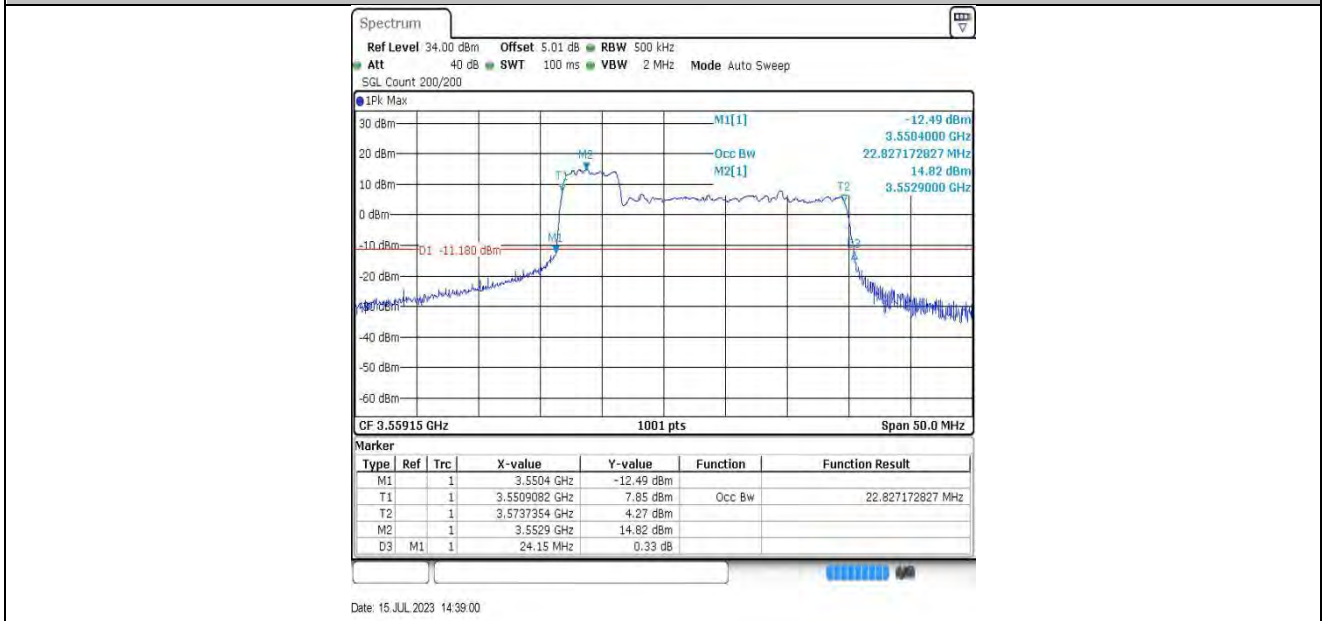
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5MHz-20MHz-56523-56640 64QAM-64QAM



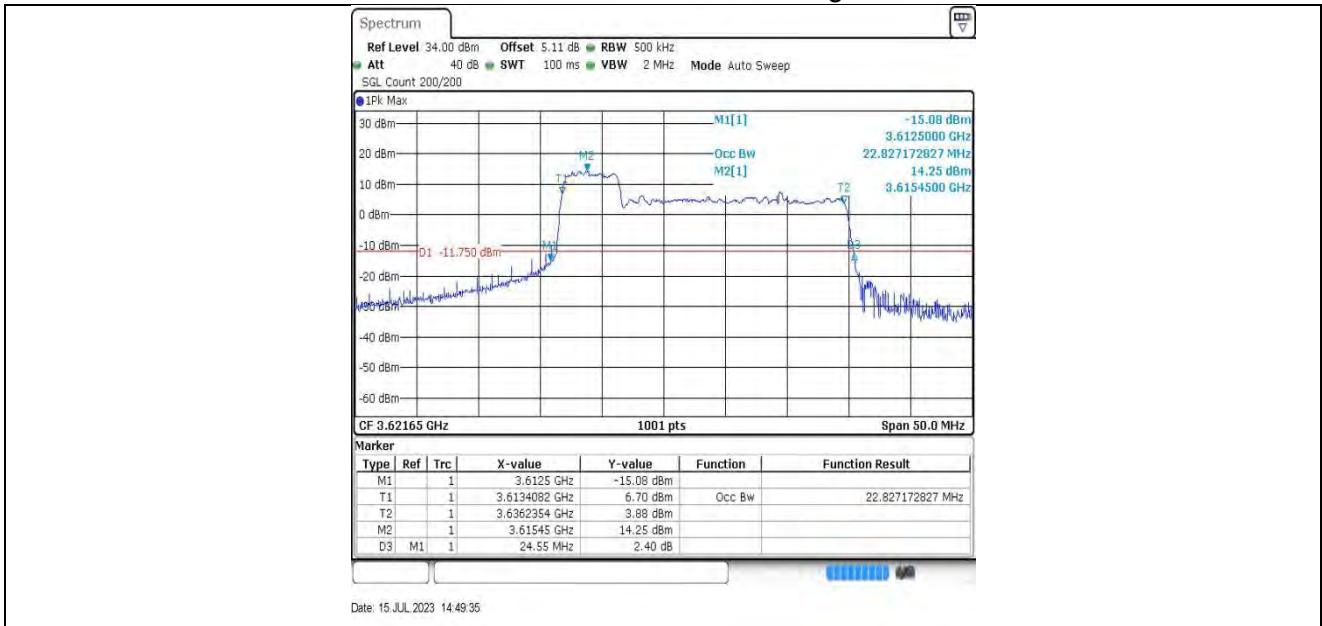
5MHz-20MHz-55273-55390 256QAM-256QAM



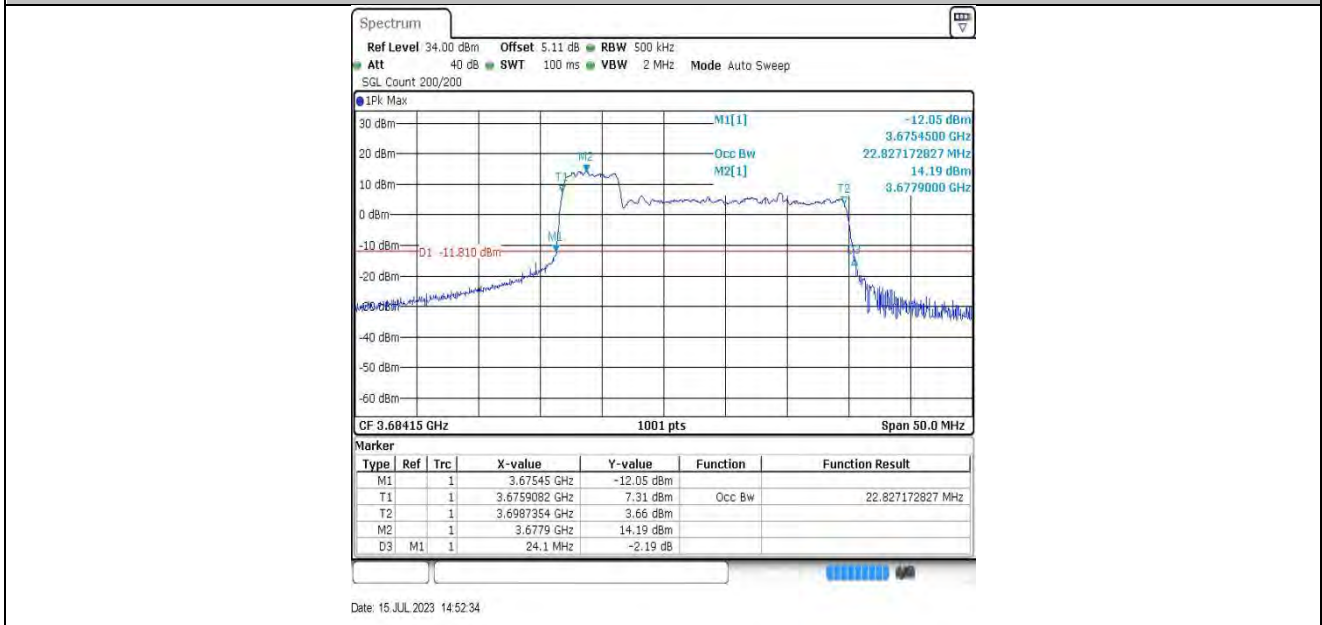
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5MHz-20MHz-55898-56015 256QAM-256QAM



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



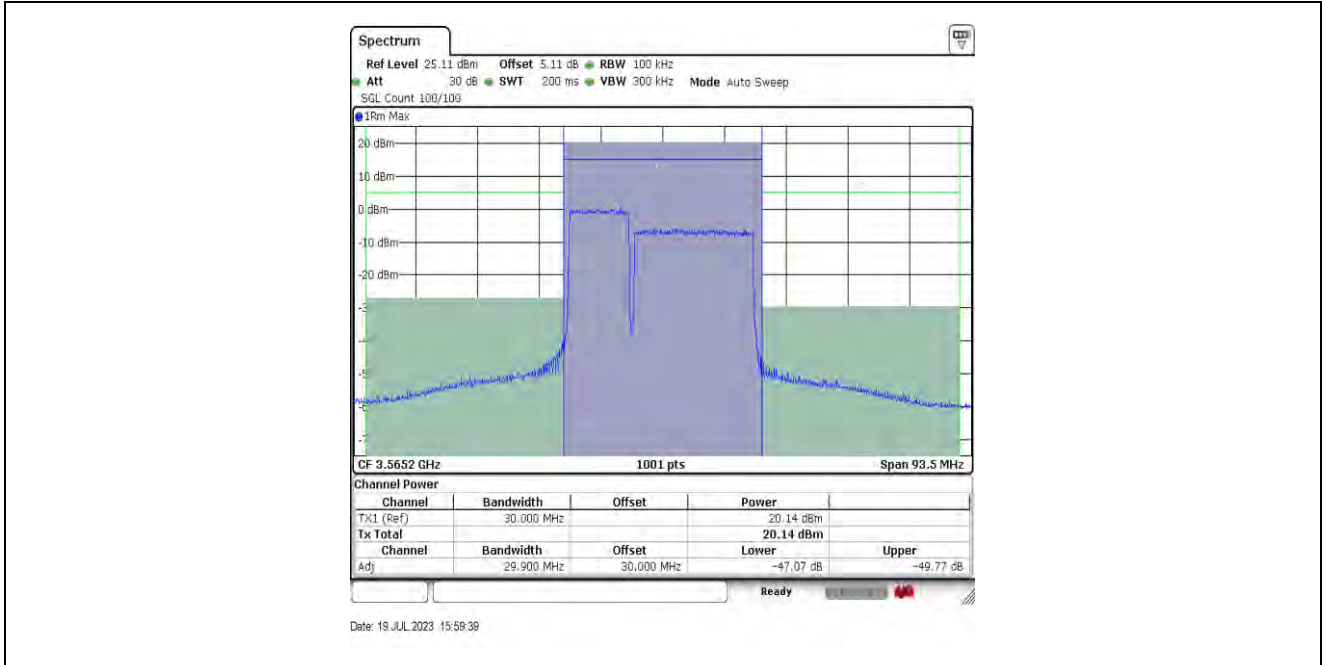
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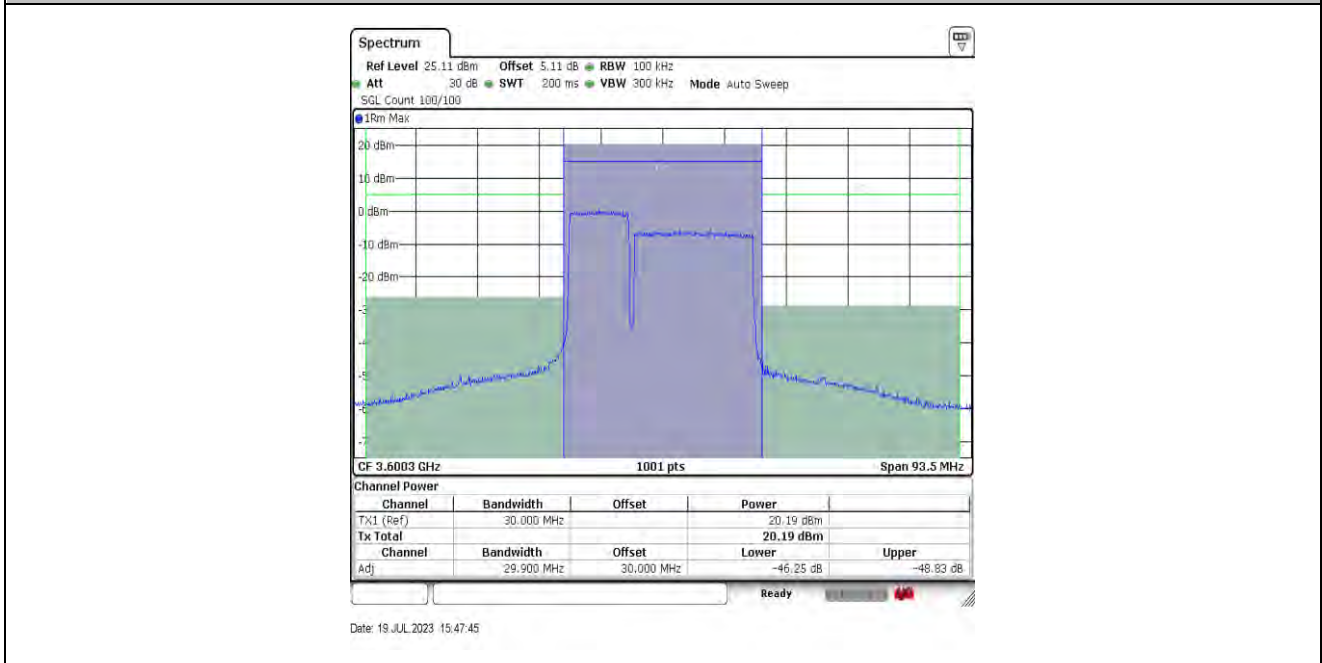
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Adjacent channel leakage ratio

Test Graphs



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



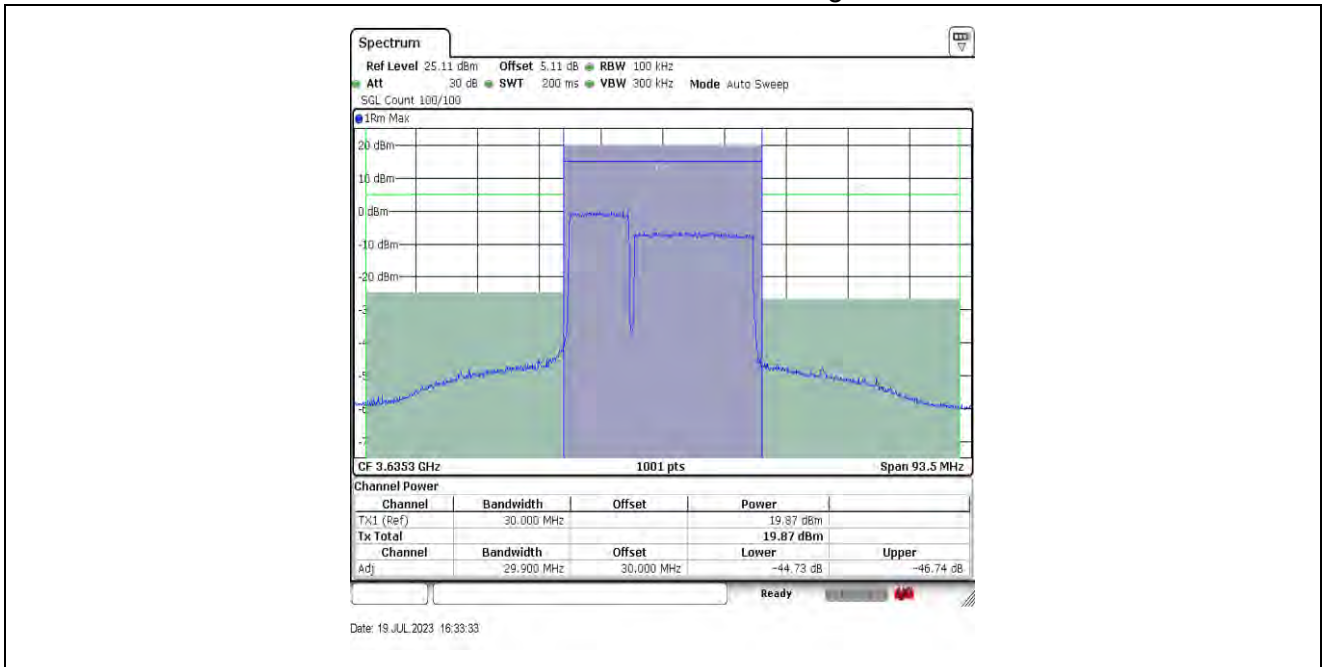
10MHz-20MHz-55896-56040 QPSK-QPSK



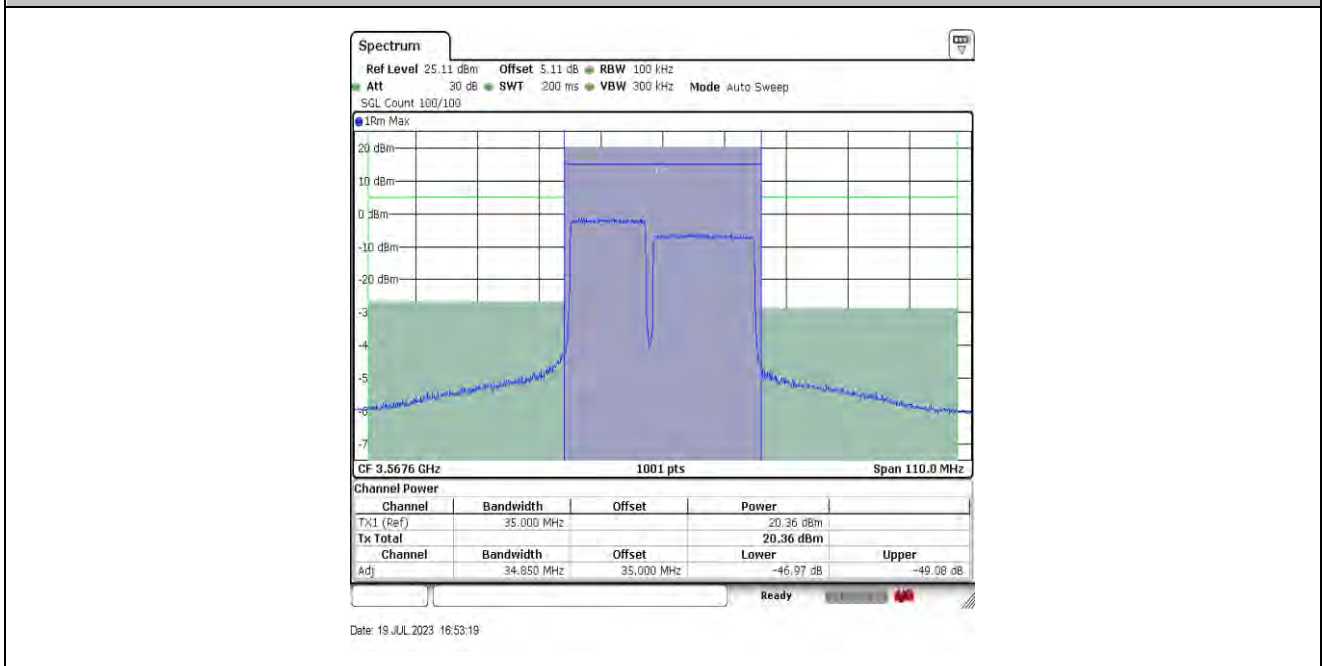
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10MHz-20MHz-56496-56640 QPSK-QPSK



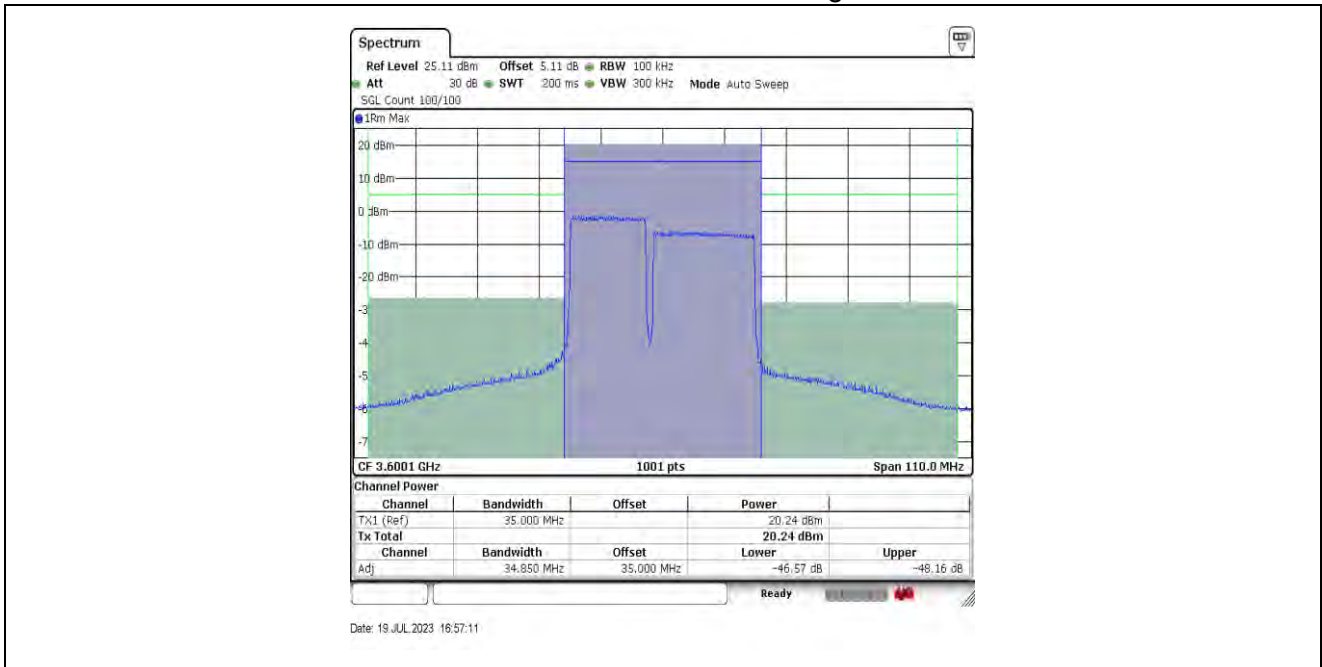
15MHz-20MHz-55318-55489 QPSK-QPSK



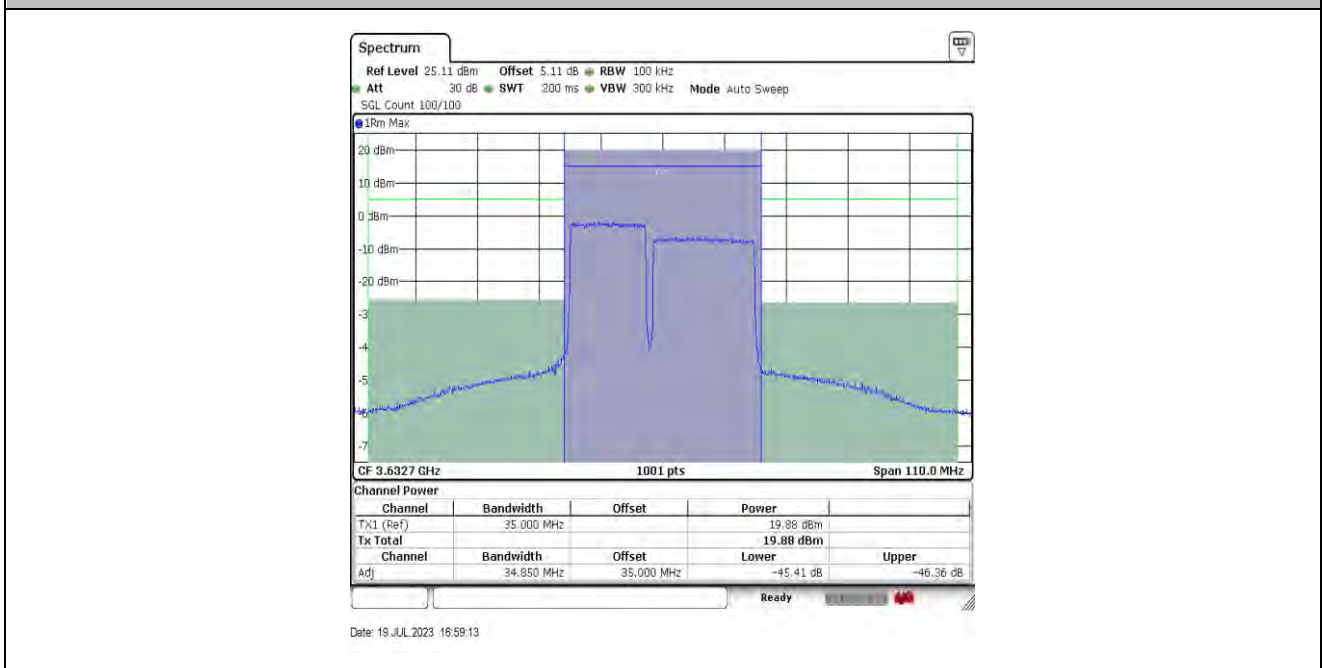
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15MHz-20MHz-55893-56064 QPSK-QPSK



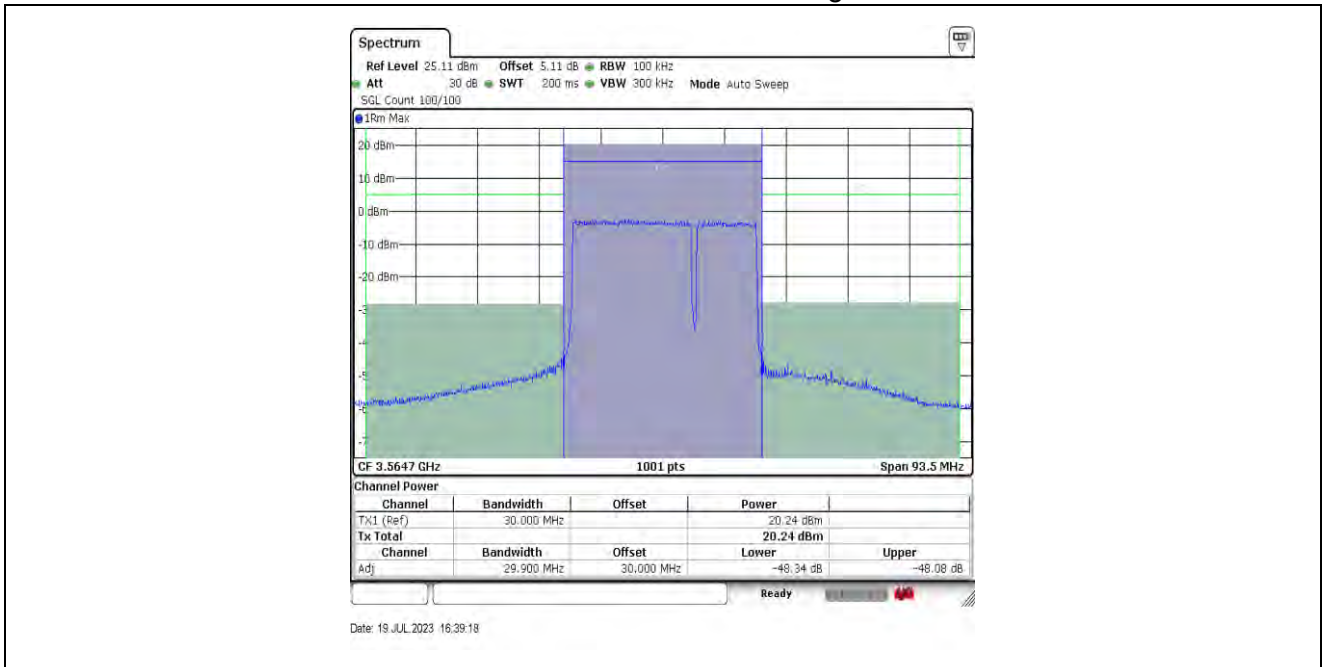
15MHz-20MHz-56469-56640 QPSK-QPSK



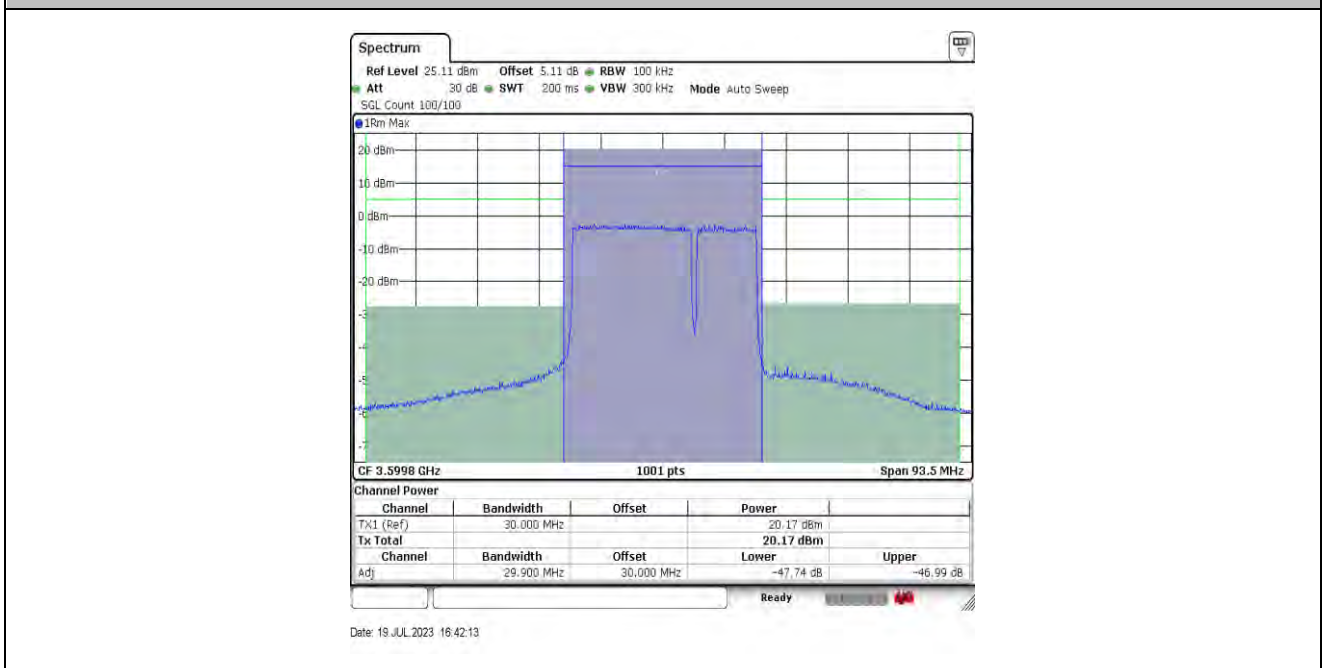
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20MHz-10MHz-55340-55484 QPSK-QPSK



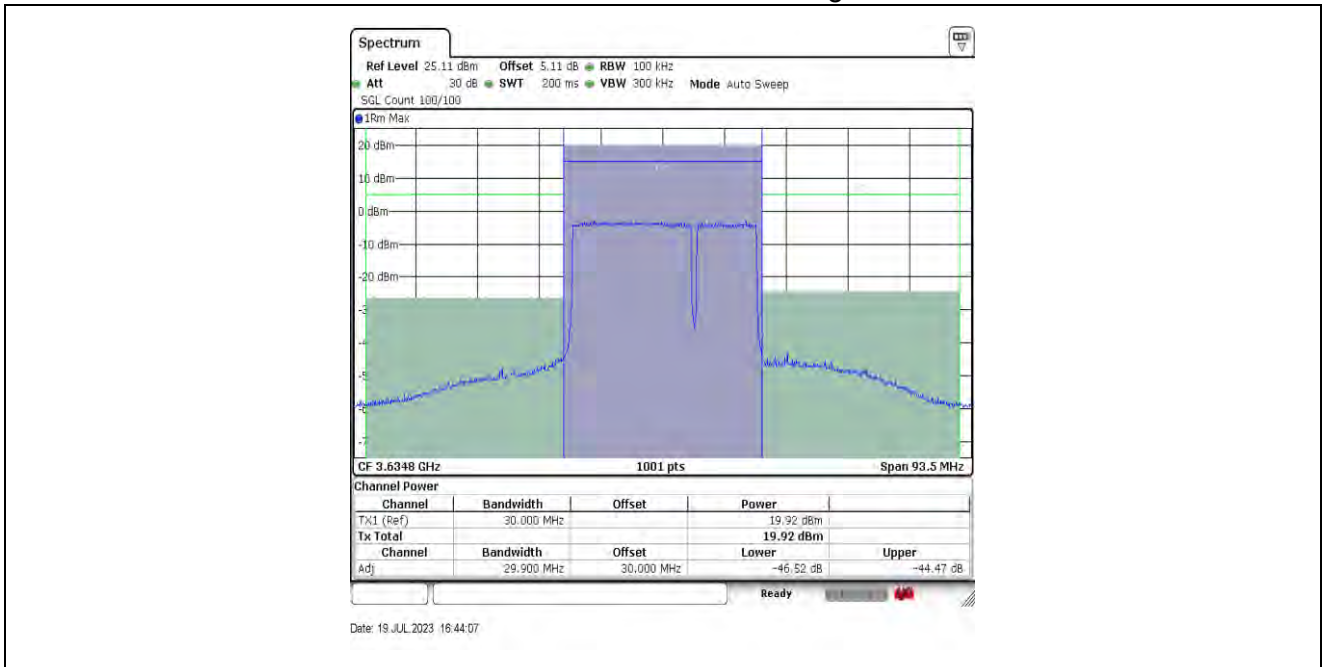
20MHz-10MHz-55941-56085 QPSK-QPSK



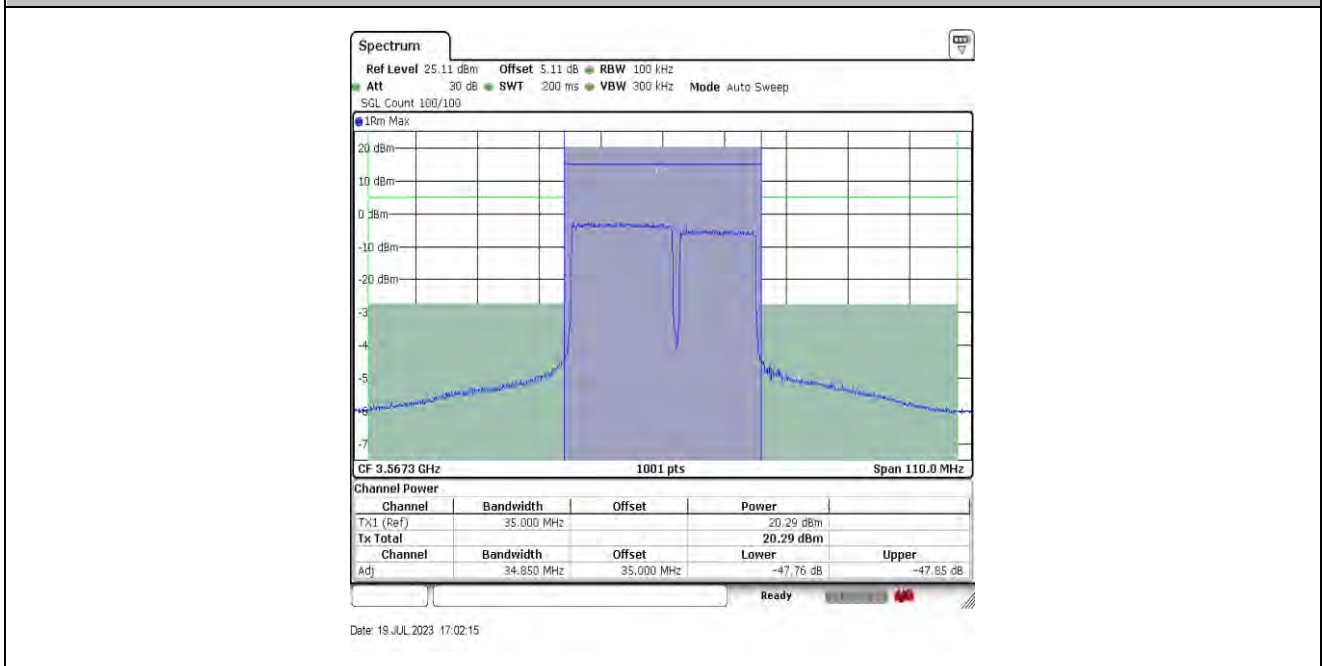
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20MHz-10MHz-56541-56685 QPSK-QPSK



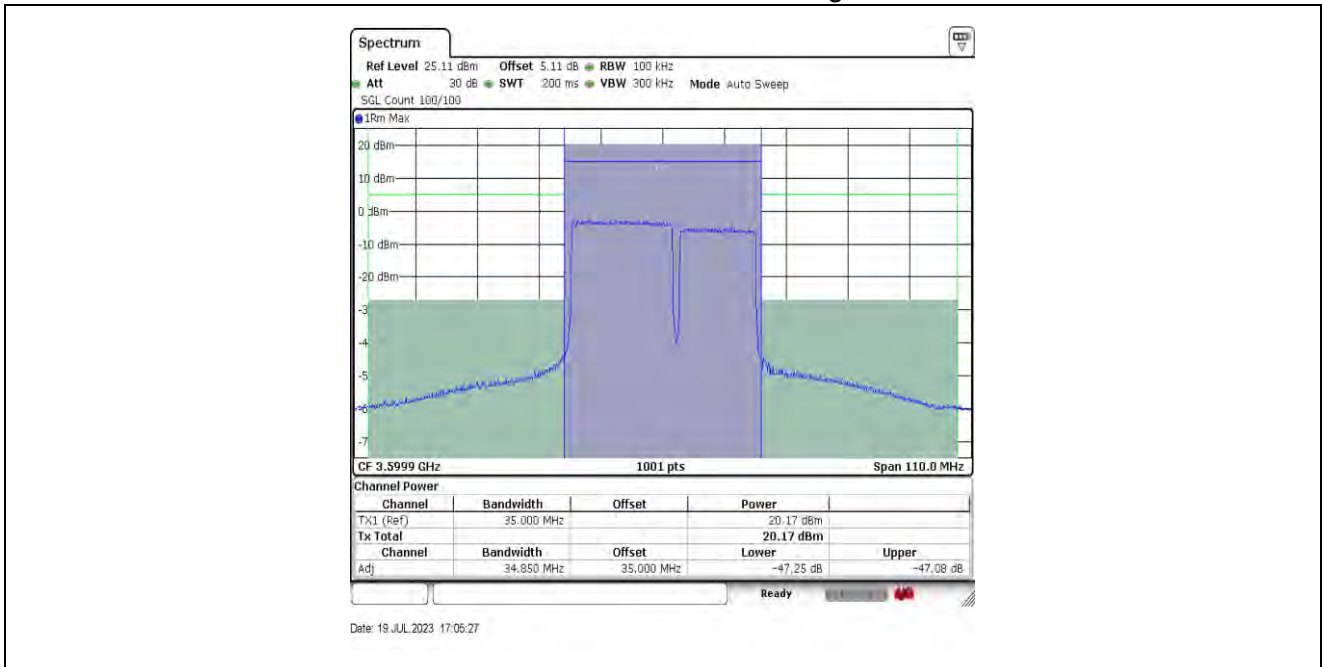
20MHz-15MHz-55916-56087 QPSK-QPSK



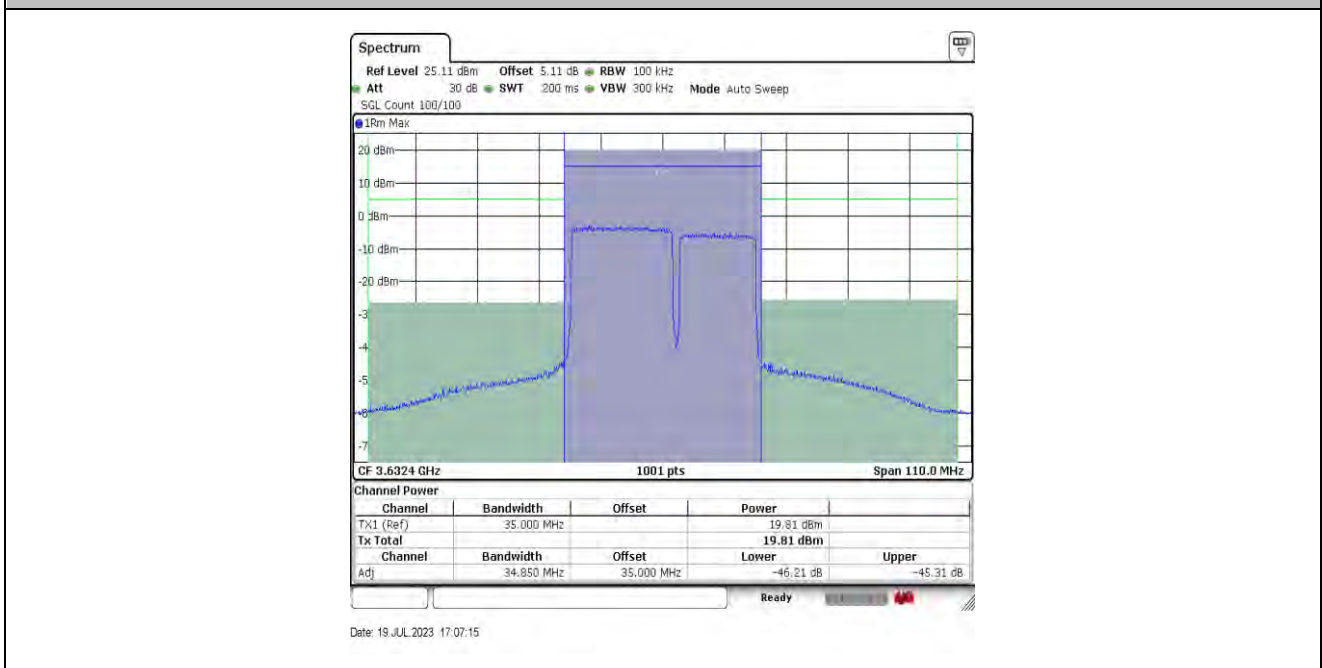
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20MHz-15MHz-56491-56662 QPSK-QPSK



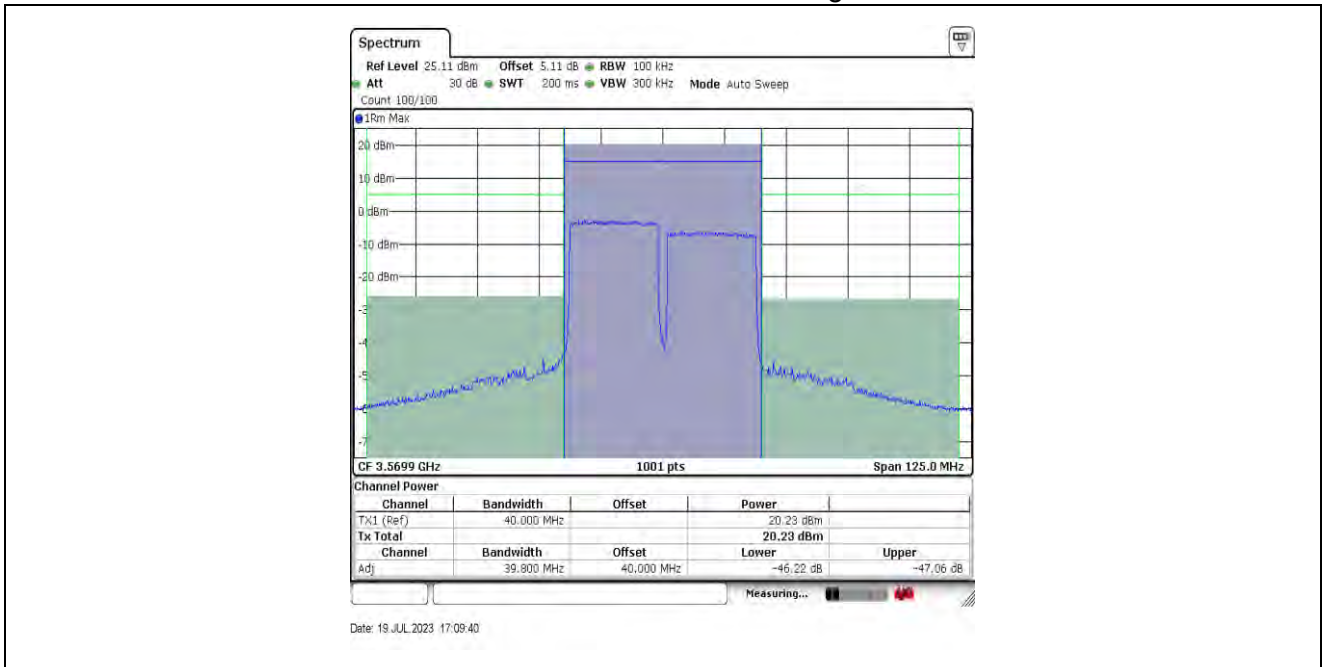
20MHz-15MHz-55340-55511 QPSK-QPSK



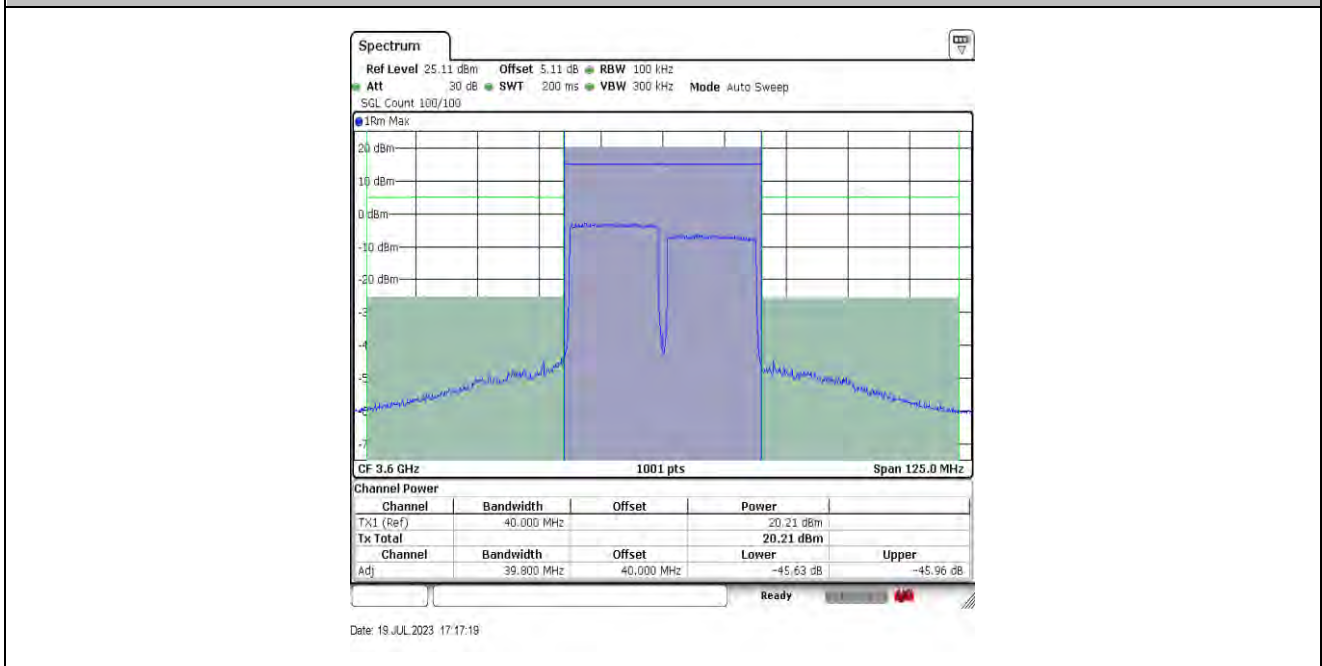
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20MHz-20MHz-55340-55538 QPSK-QPSK



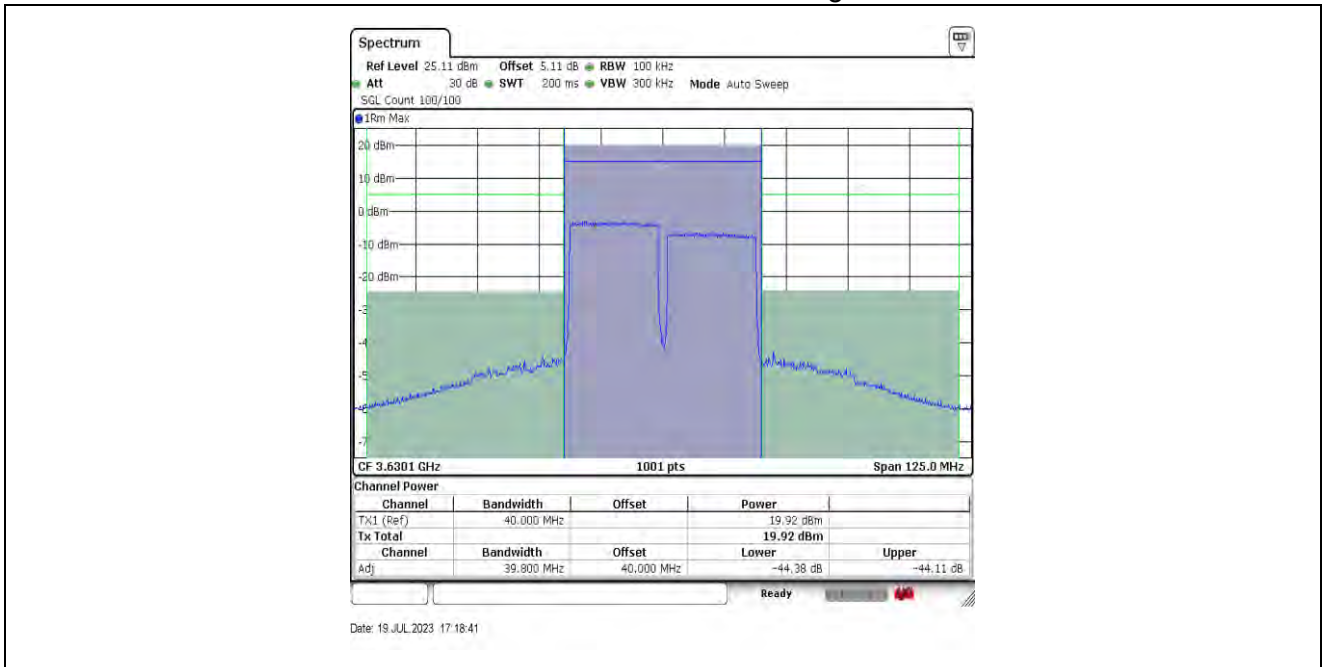
20MHz-20MHz-55891-56089 QPSK-QPSK



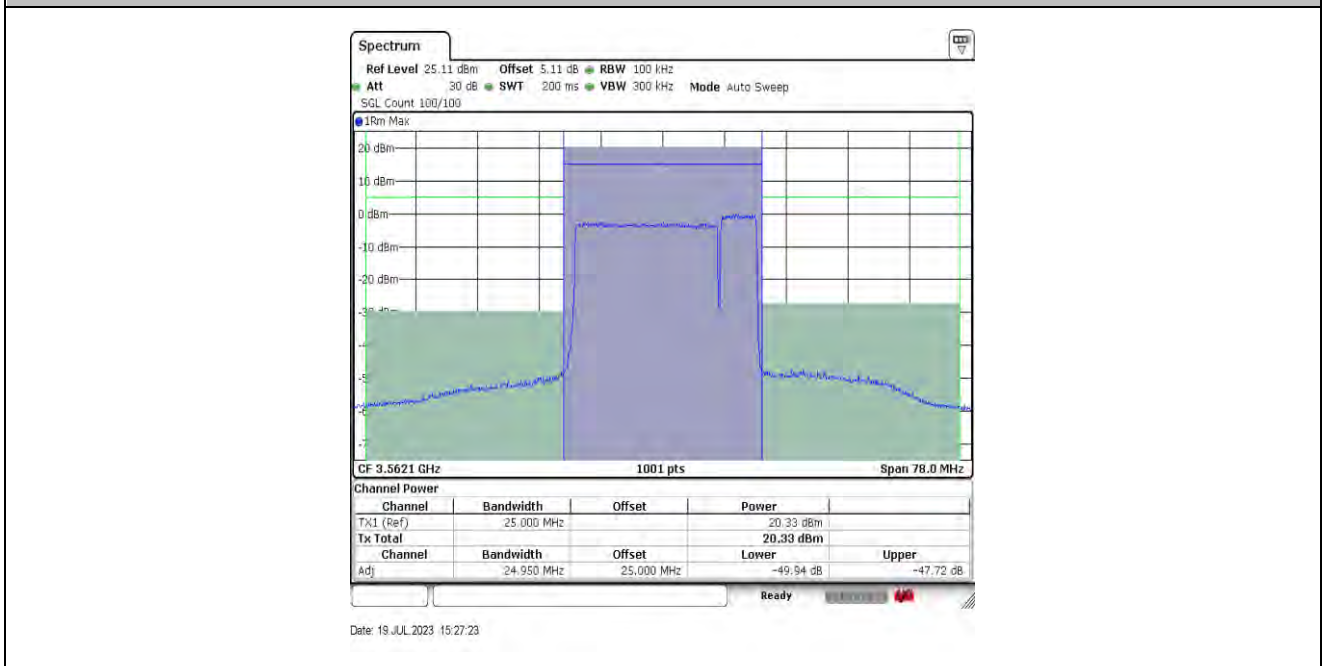
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20MHz-20MHz-56442-56640 QPSK-QPSK



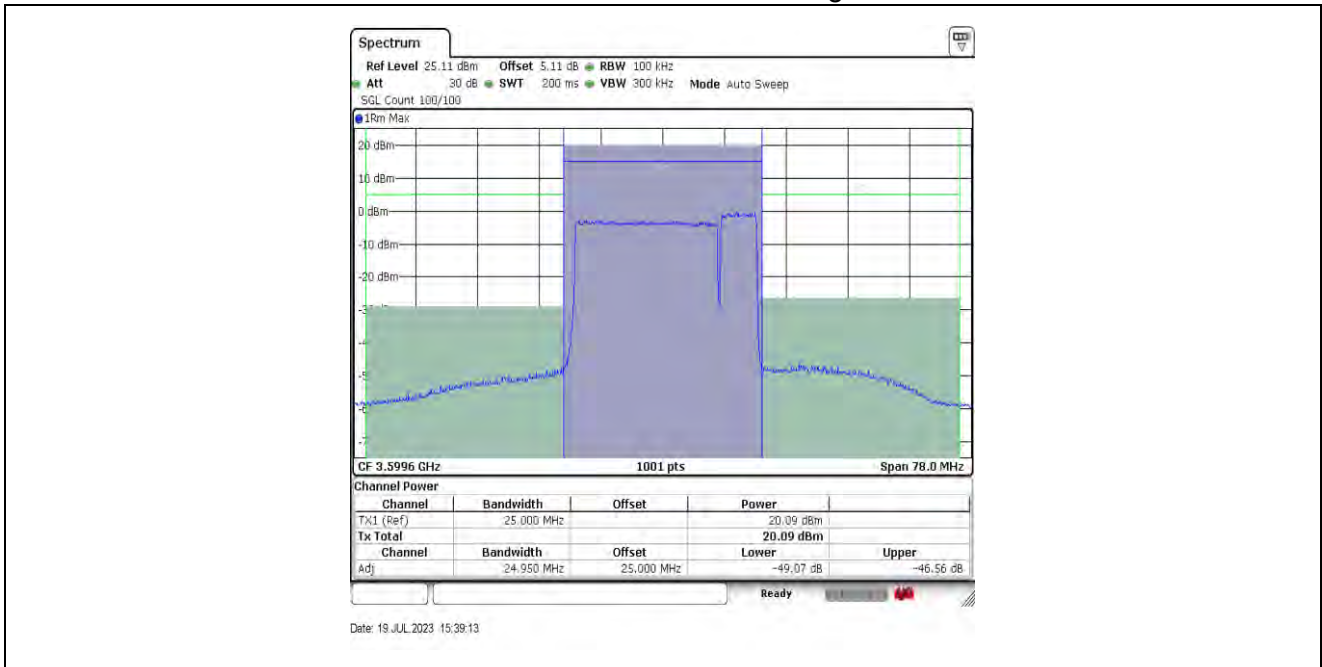
20MHz-5MHz-55340-55457 QPSK-QPSK



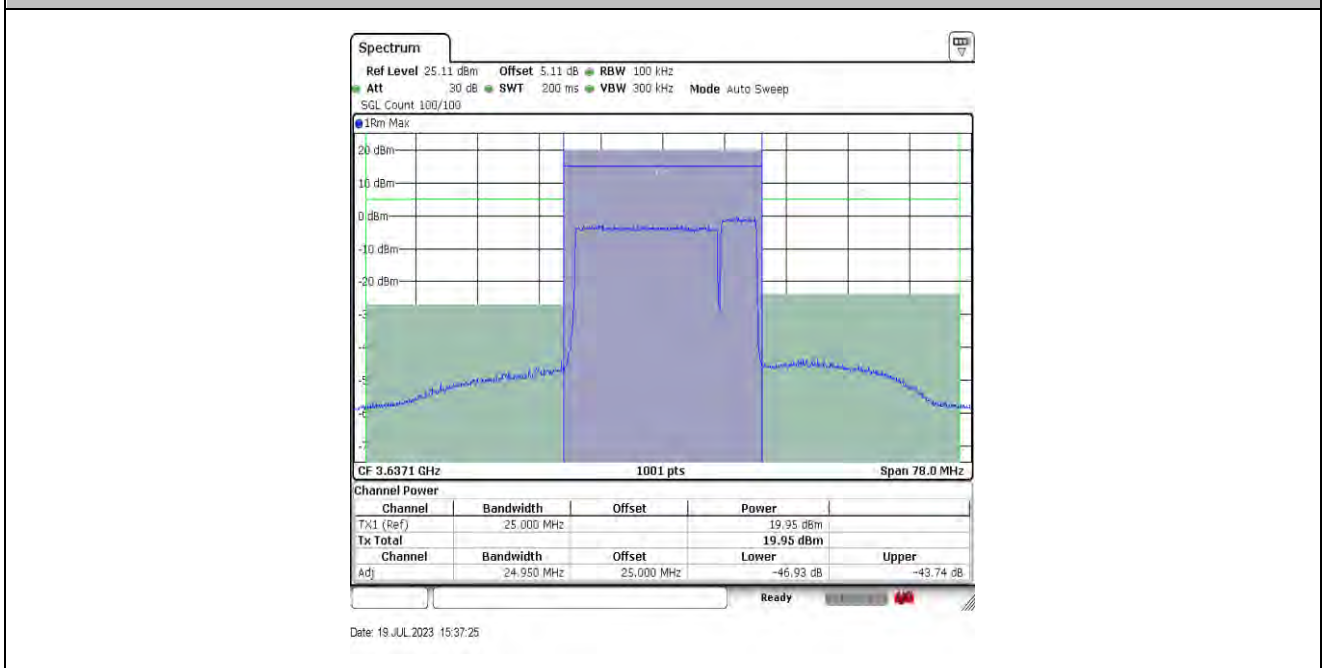
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20MHz-5MHz-55965-56082 QPSK-QPSK



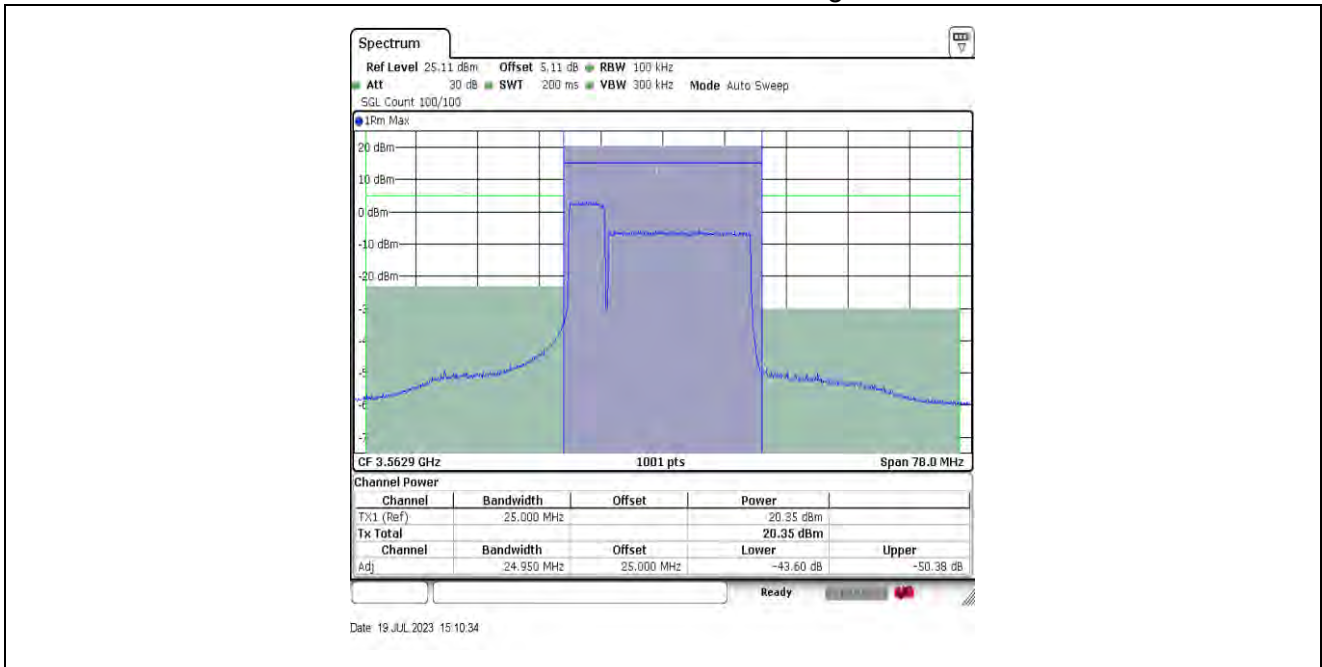
20MHz-5MHz-56590-56707 QPSK-QPSK



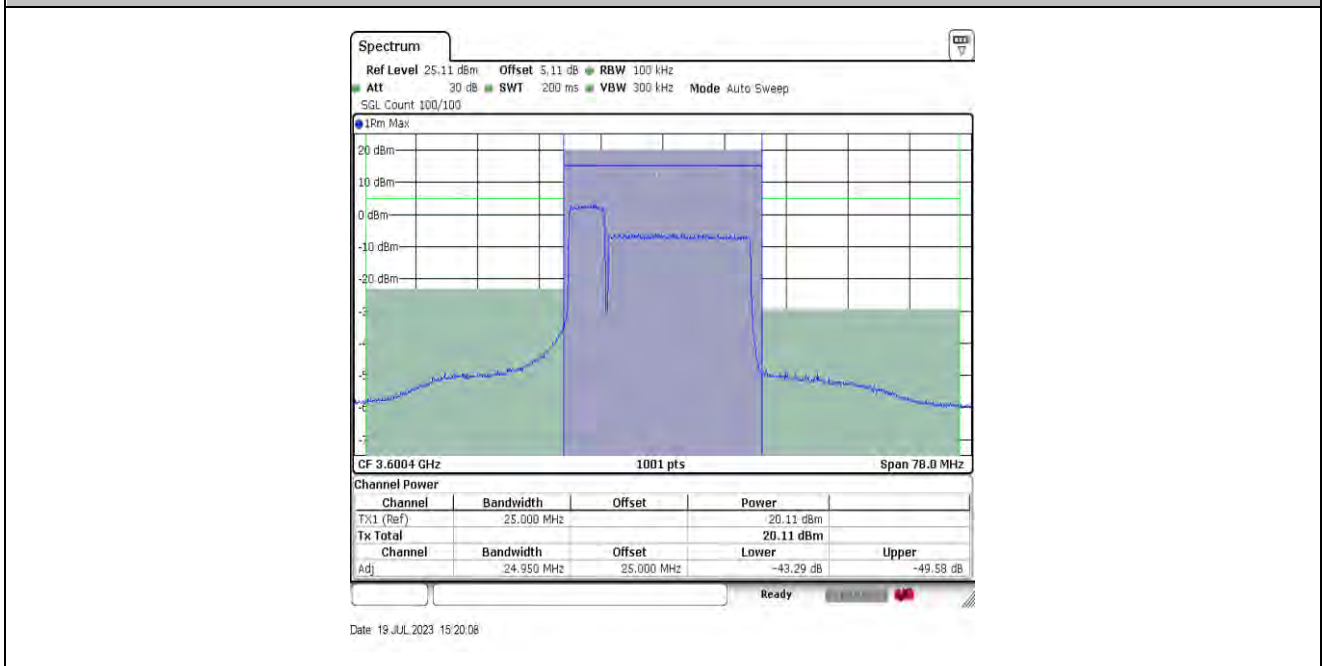
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5MHz-20MHz-55273-55390 QPSK-QPSK



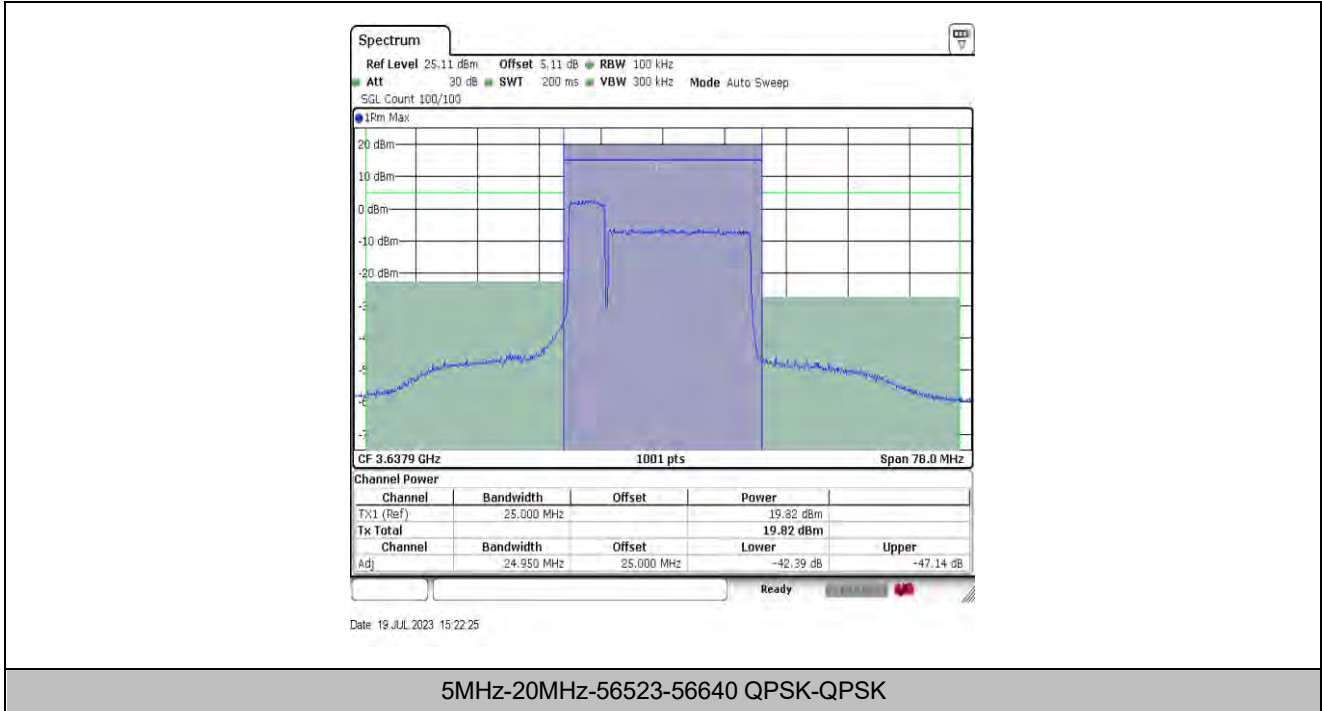
5MHz-20MHz-55898-56015 QPSK-QPSK



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



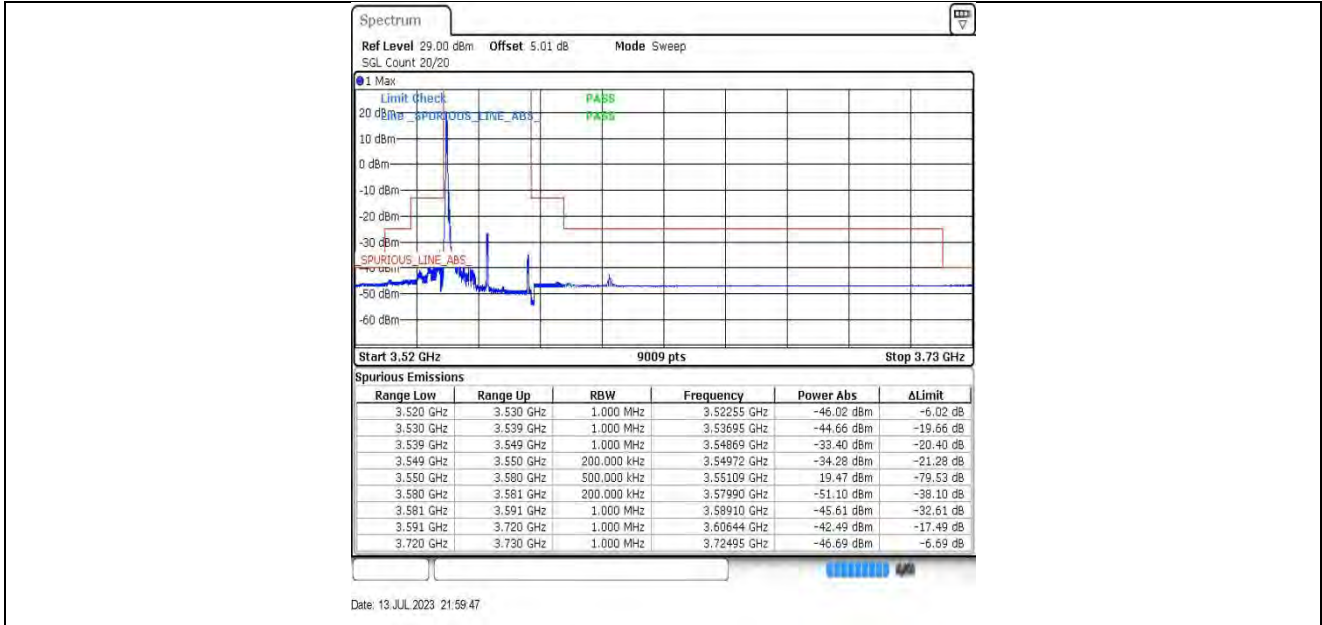
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Band Edge

Test Graphs



10MHz-20MHz-55295-55439



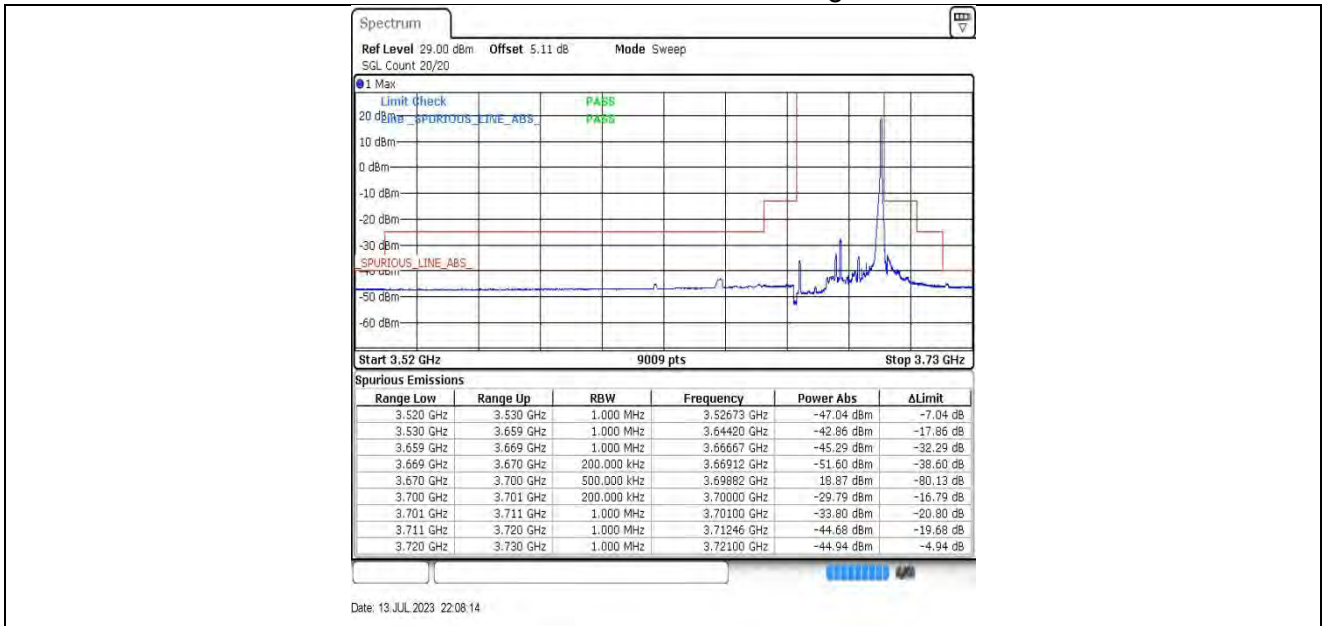
10MHz-20MHz-55295-55439



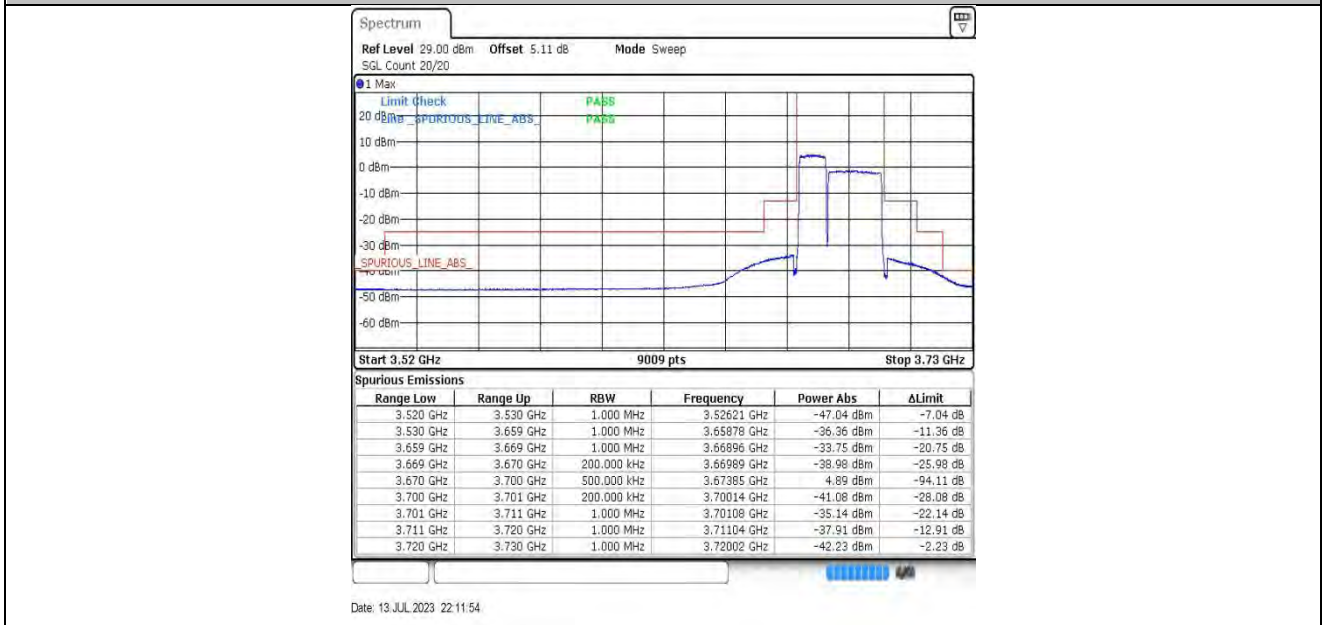
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10MHz-20MHz-56496-56640



10MHz-20MHz-56496-56640

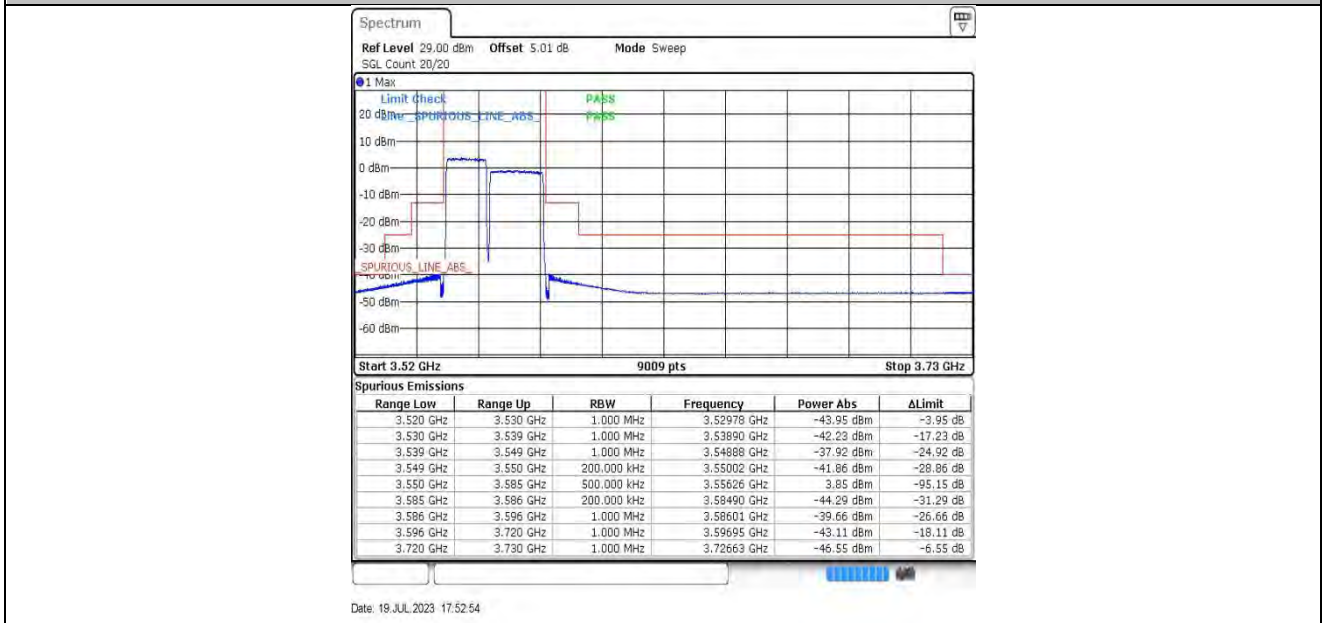


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15MHz-20MHz-55318-55489



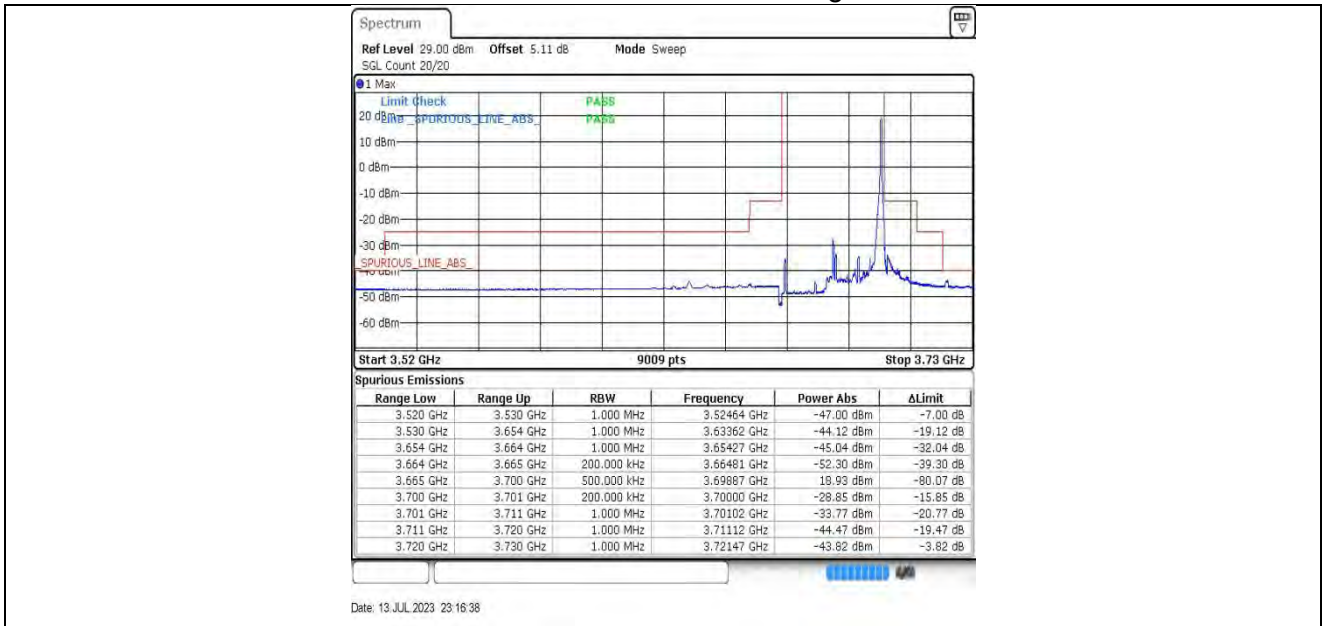
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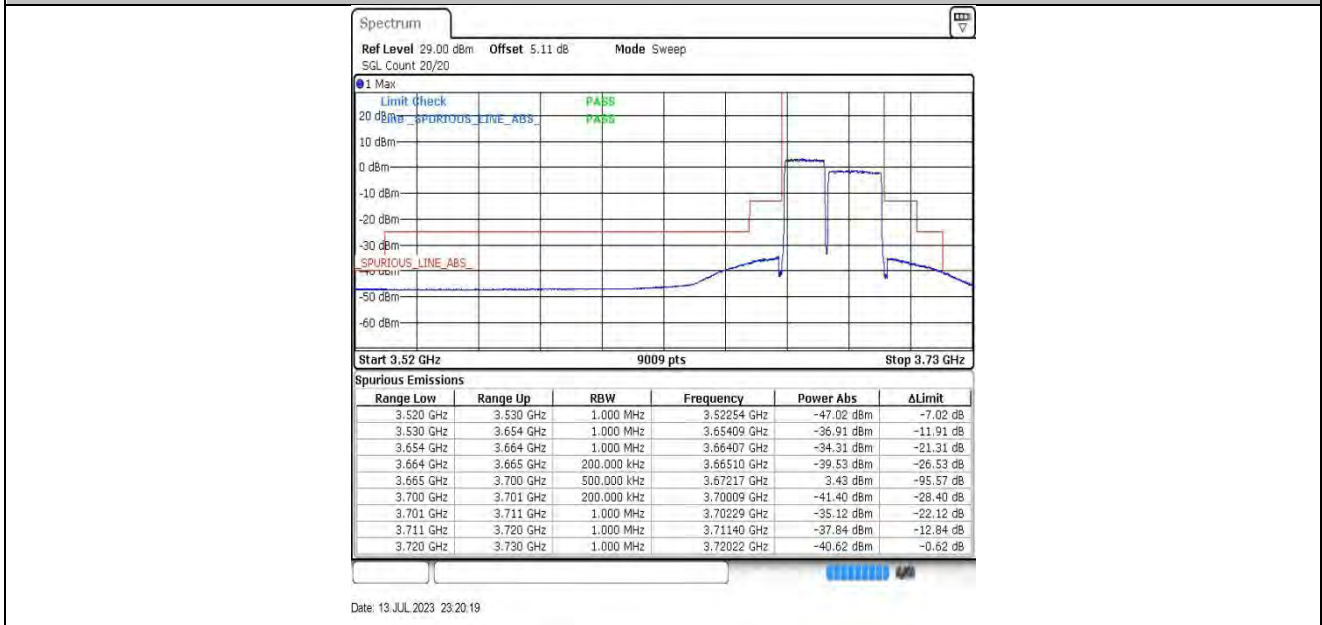
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15MHz-20MHz-56469-56640



15MHz-20MHz-56469-56640



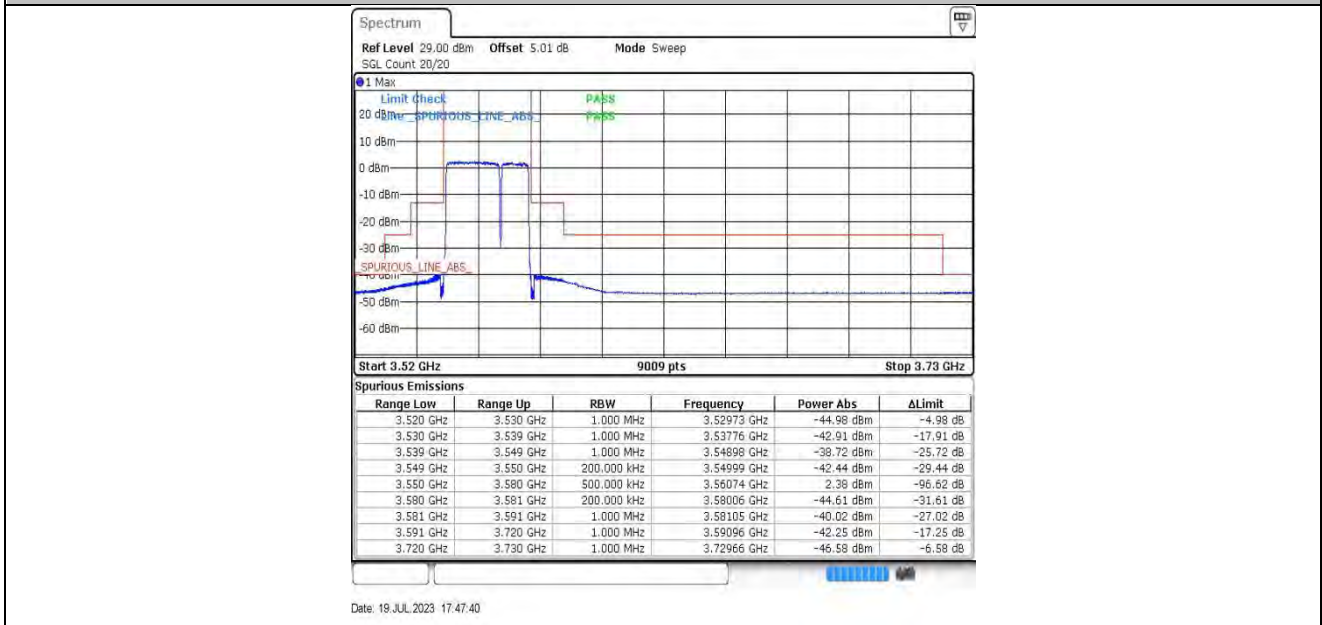
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20MHz-10MHz-55340-55484



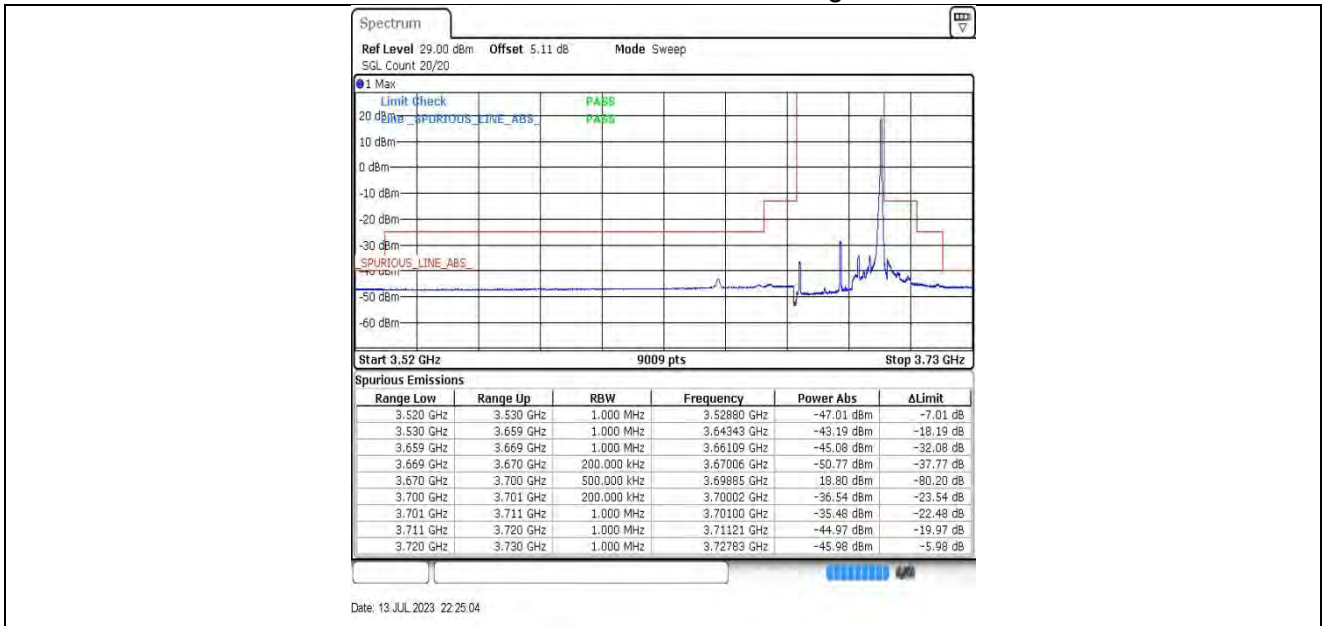
20MHz-10MHz-55340-55484



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20MHz-10MHz-56541-56685



20MHz-10MHz-56541-56685



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20MHz-15MHz-55340-55511



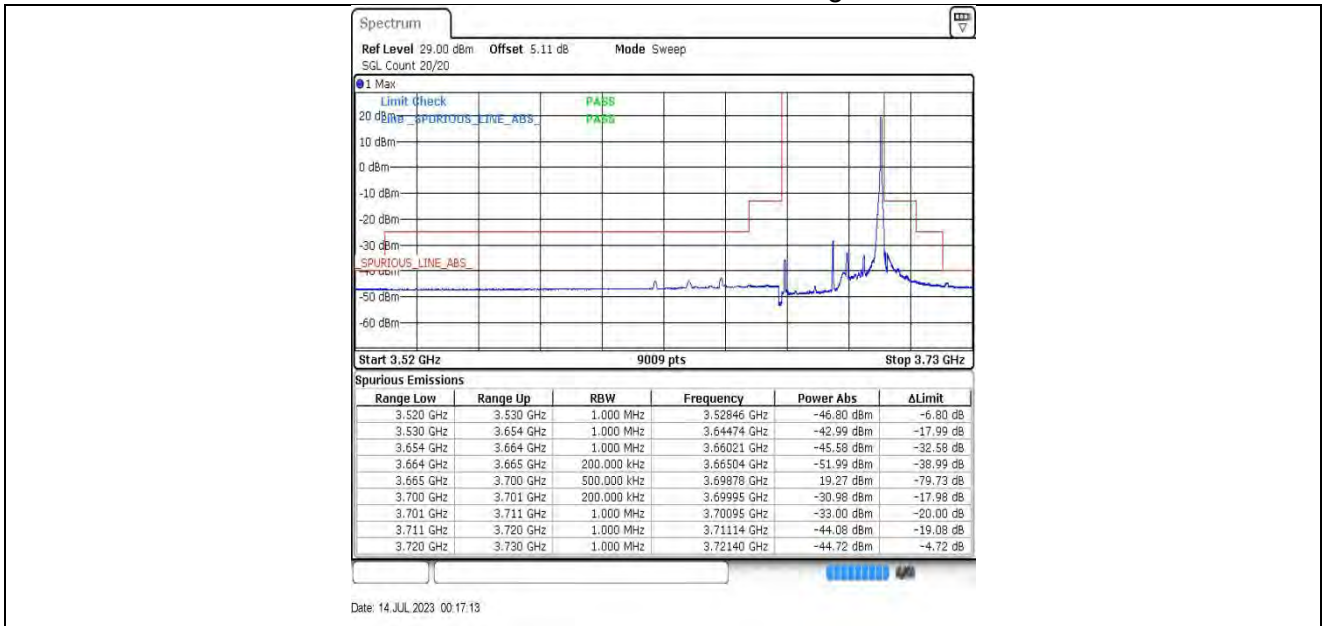
20MHz-15MHz-55340-55511



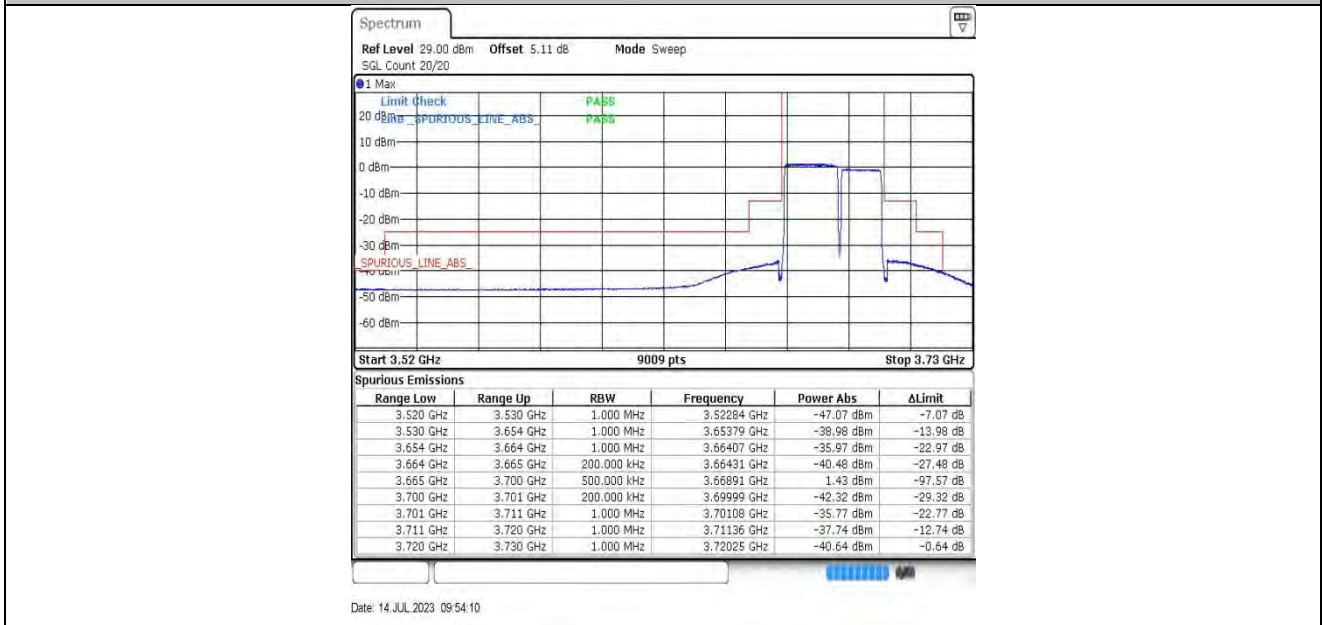
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20MHz-15MHz-56491-56662



20MHz-15MHz-56491-56662



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20MHz-20MHz-55340-55538



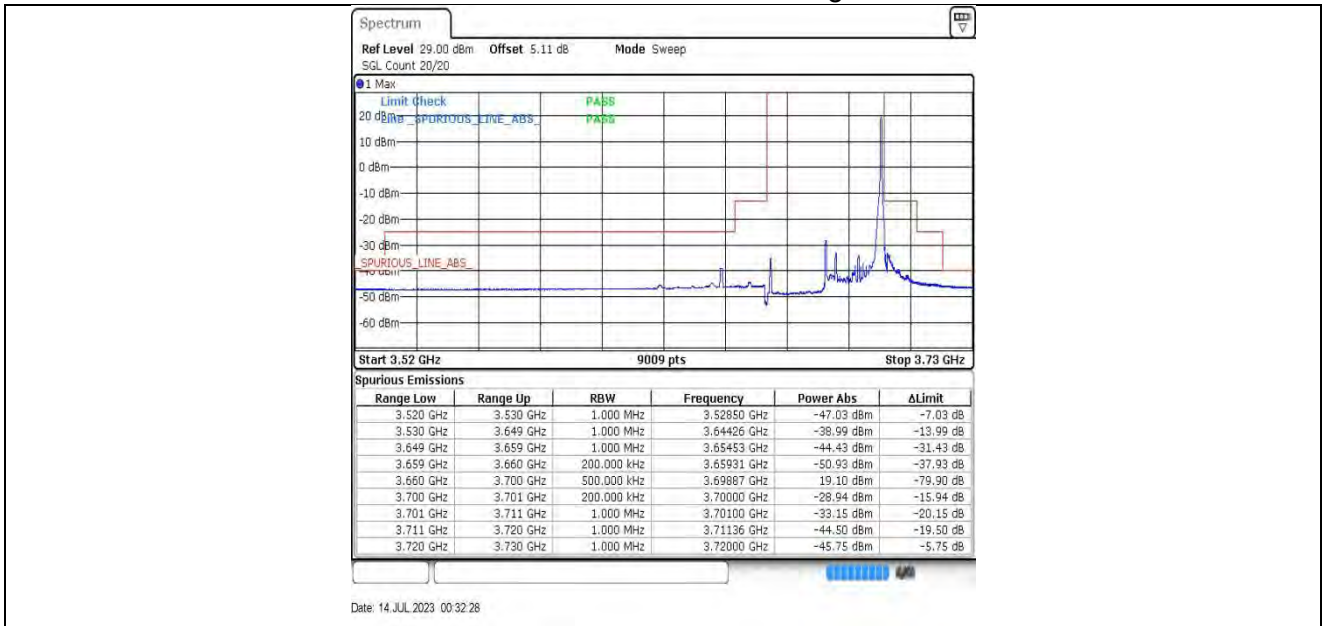
20MHz-20MHz-55340-55538



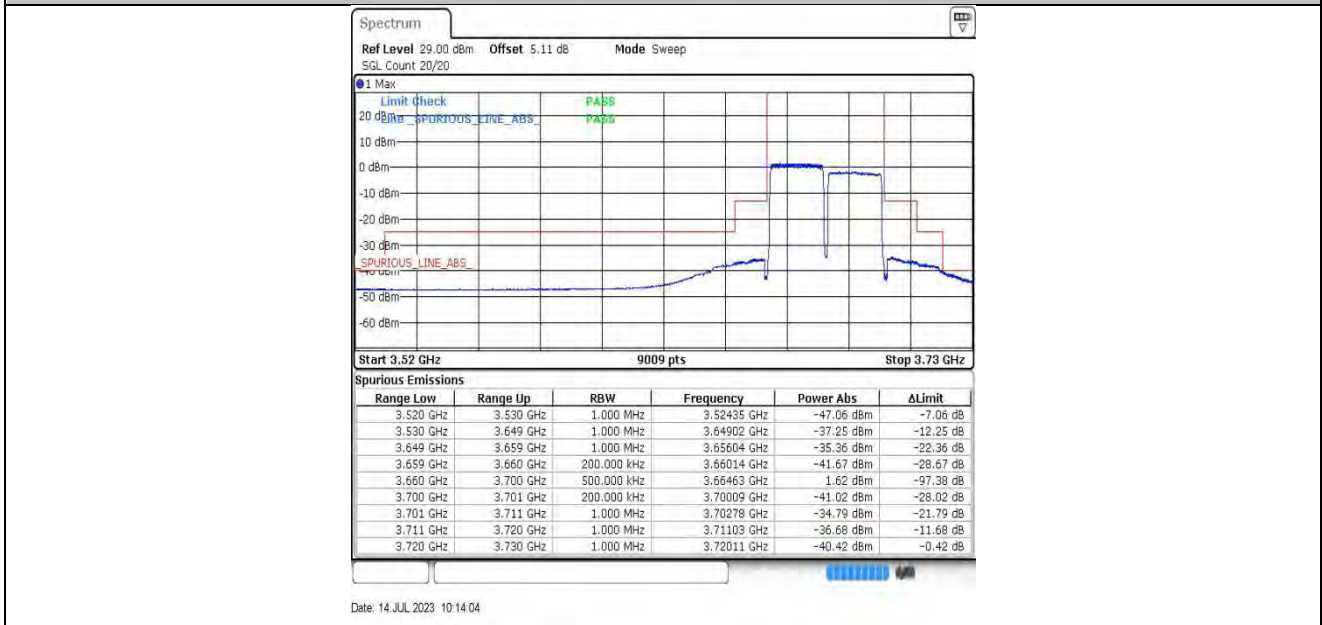
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20MHz-20MHz-56442-56640



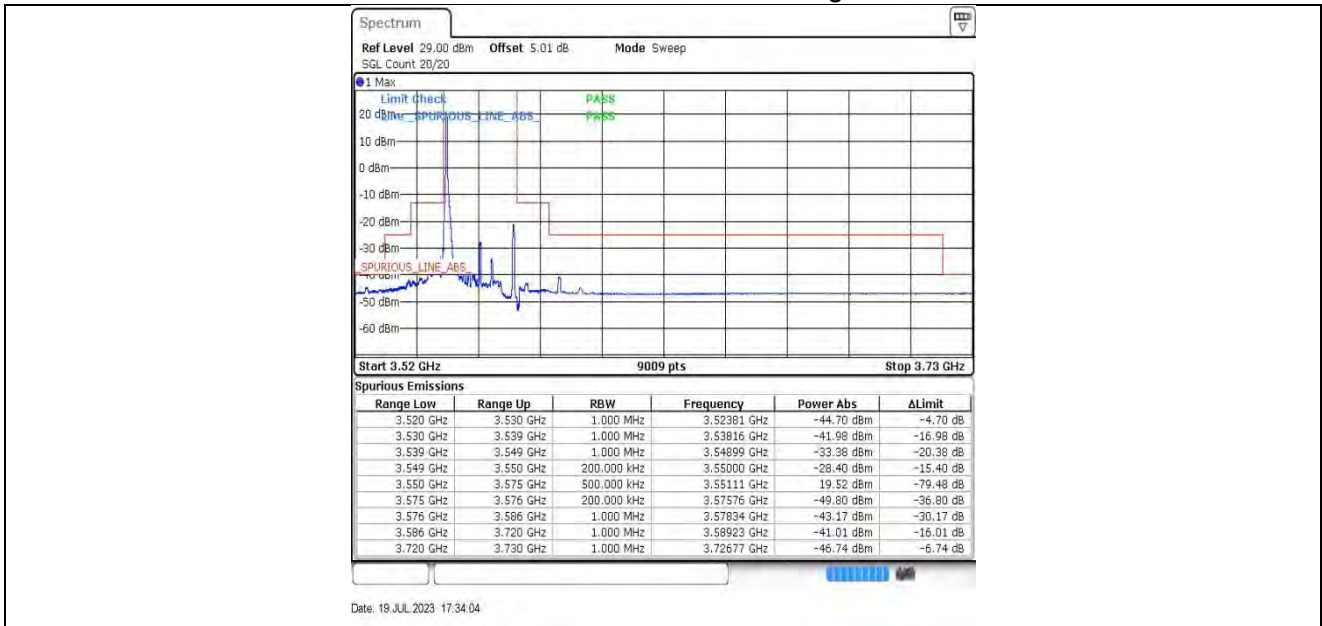
20MHz-20MHz-56442-56640



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20MHz-5MHz-55340-55457



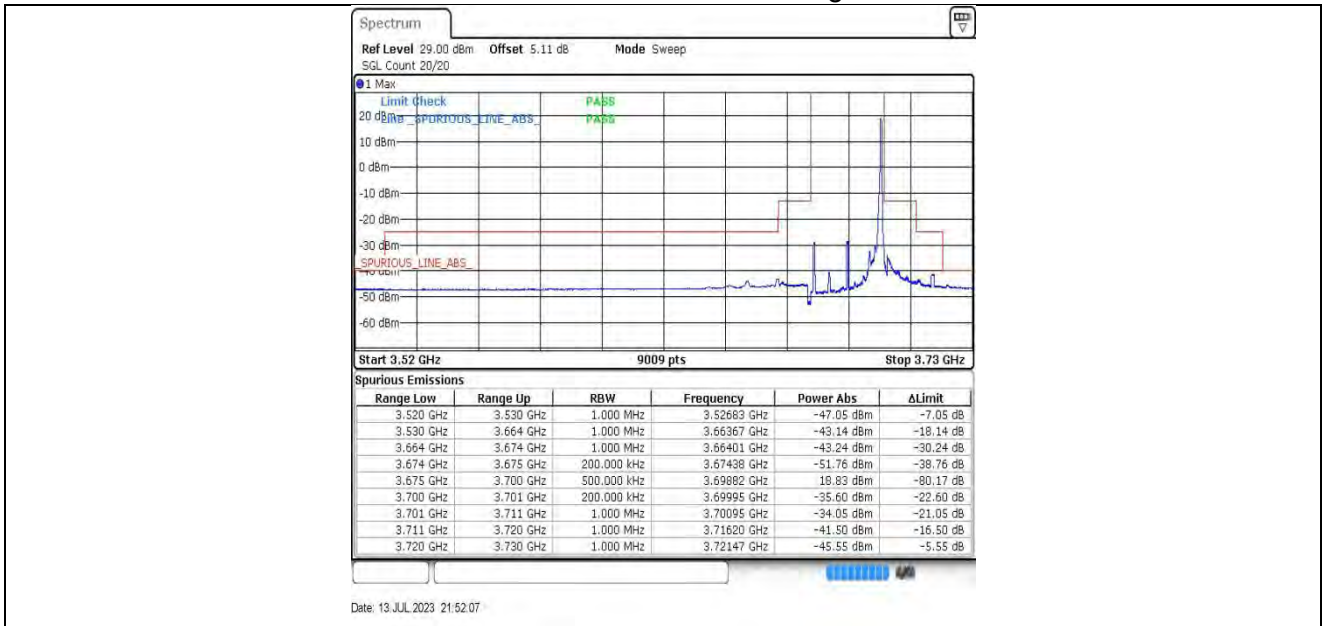
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20MHz-5MHz-56590-56707

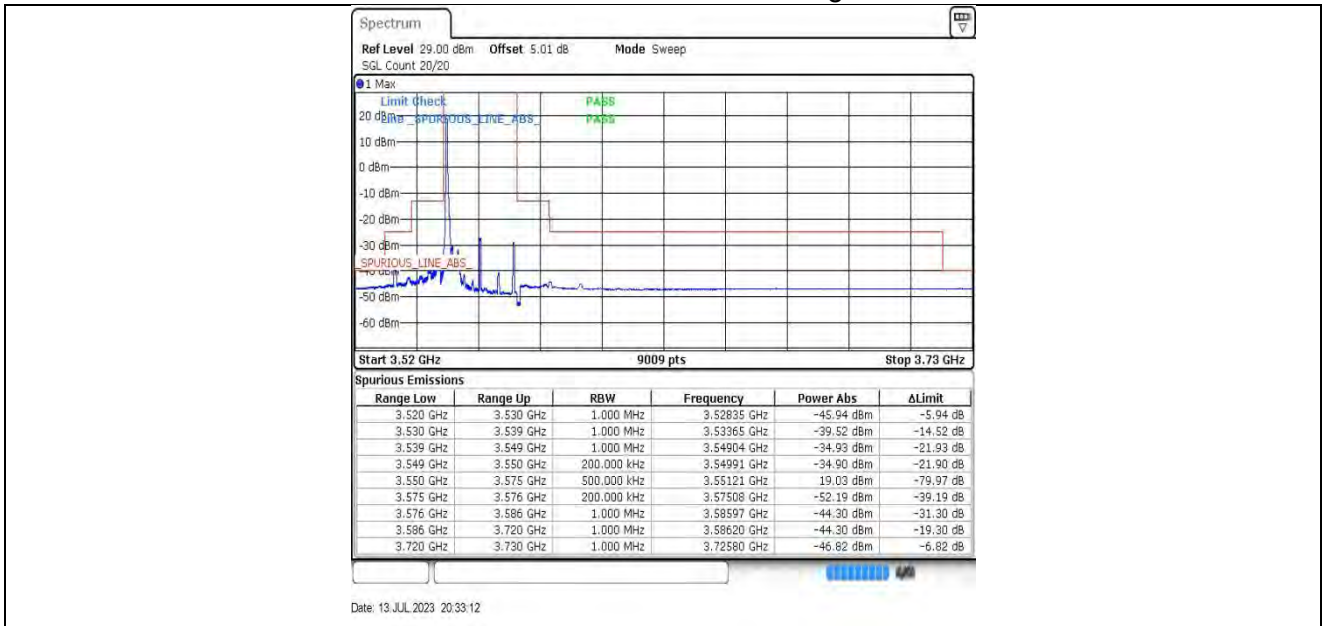


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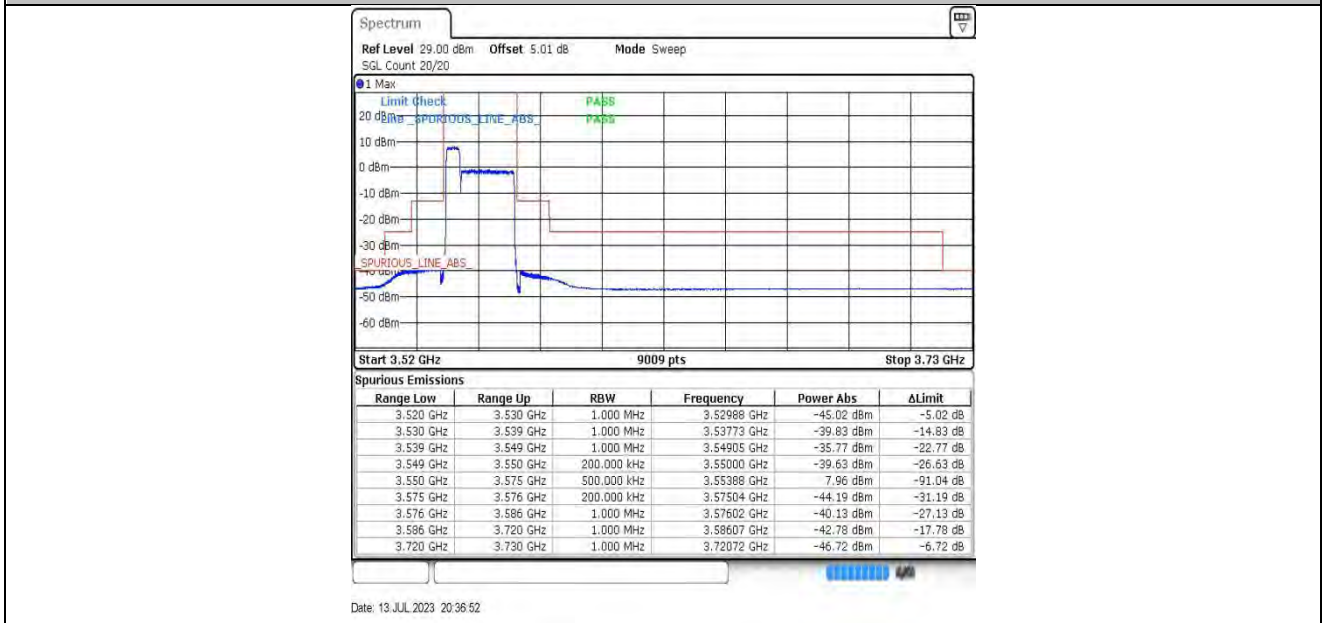


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5MHz-20MHz-55273-55390



5MHz-20MHz-55273-55390



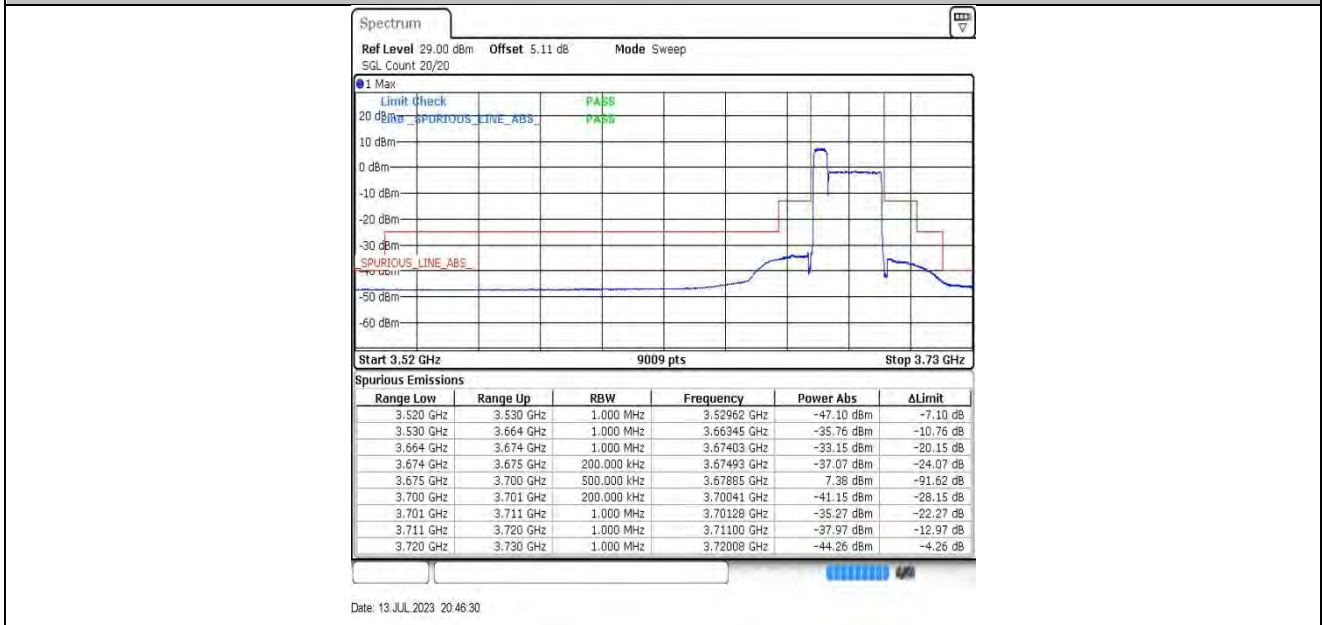
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5MHz-20MHz-56523-56640



5MHz-20MHz-56523-56640

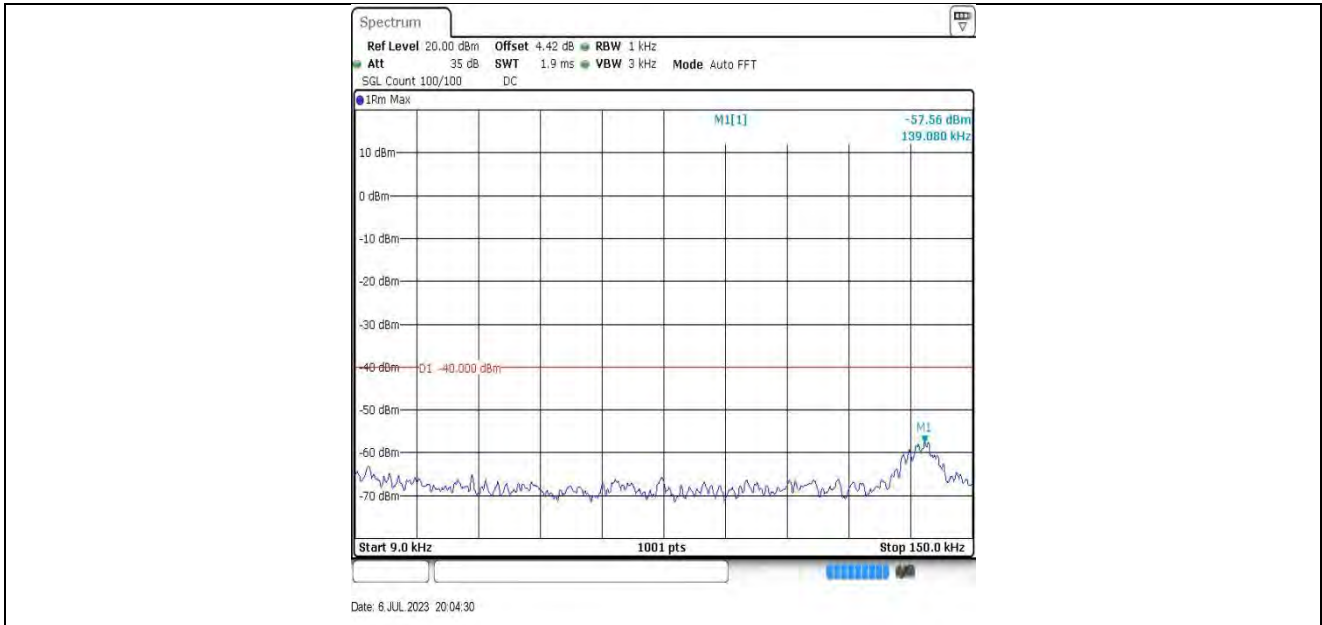


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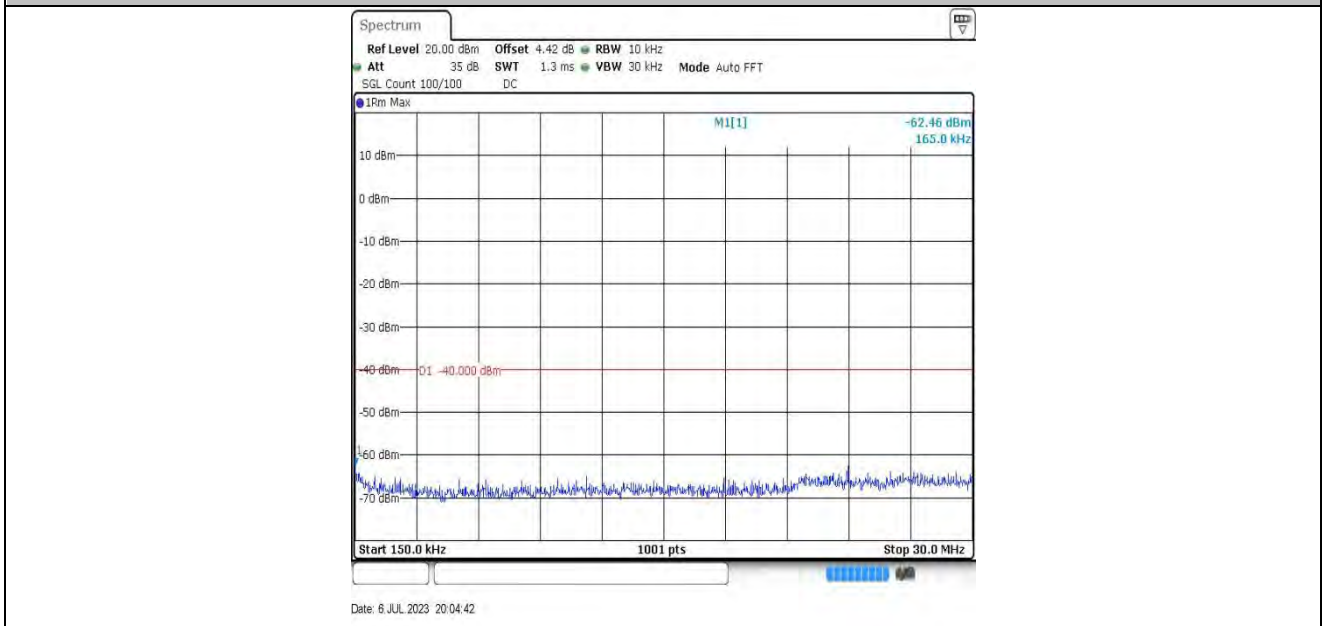
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Conducted Spurious Emission

Test Graphs



20MHz-20MHz-55340-55538



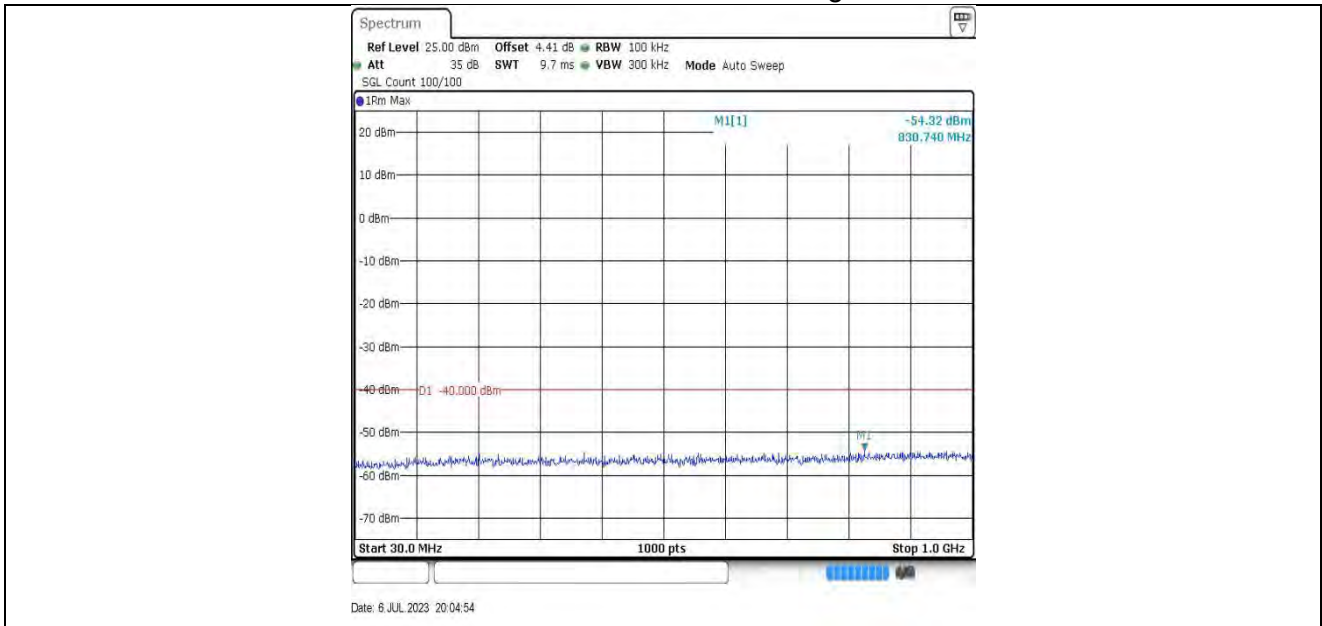
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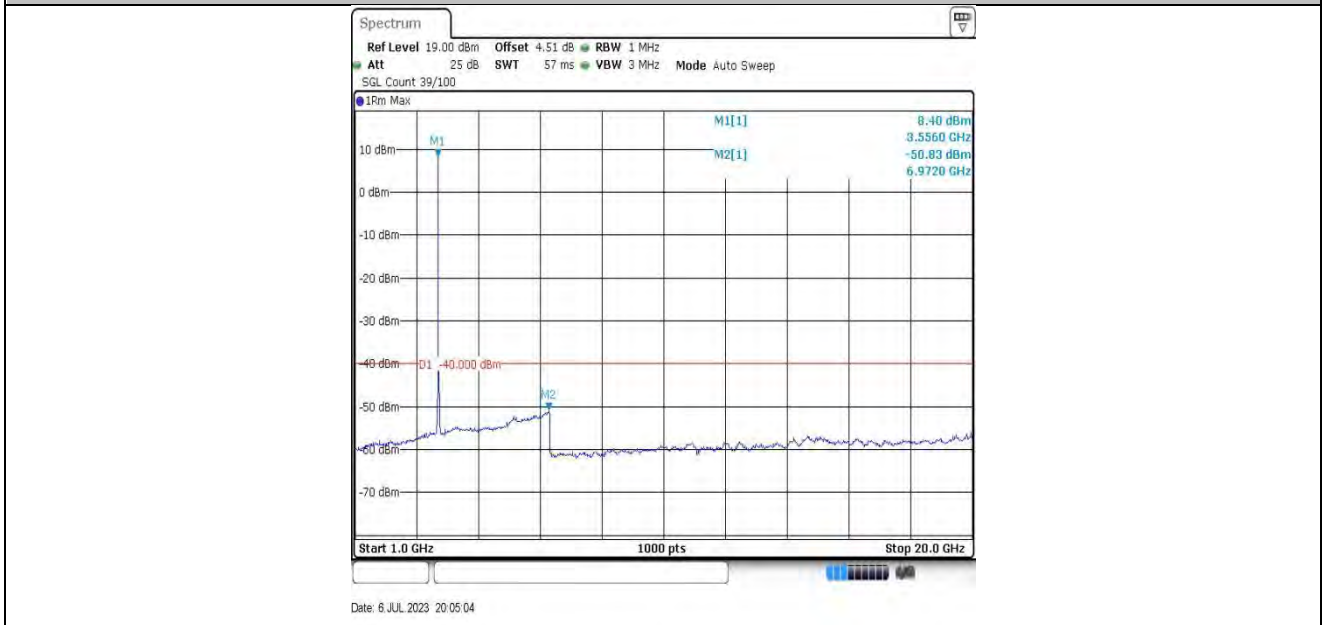
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20MHz-20MHz-55340-55538



20MHz-20MHz-55340-55538



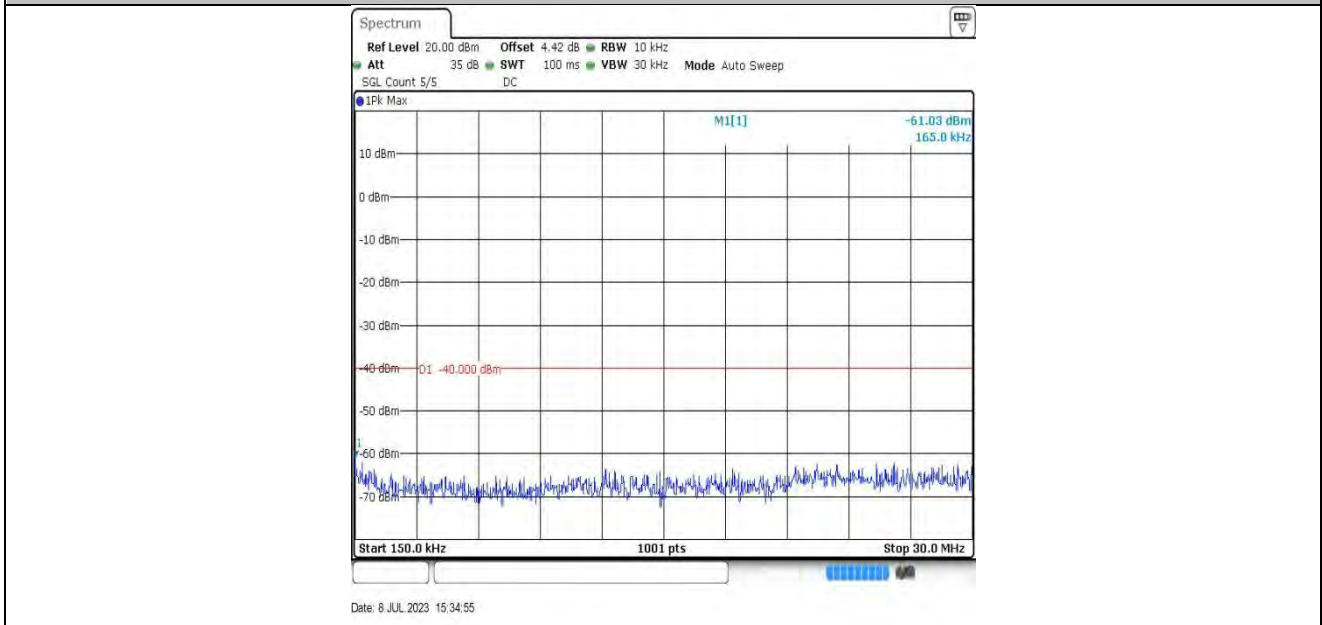
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20MHz-20MHz-55891-56089



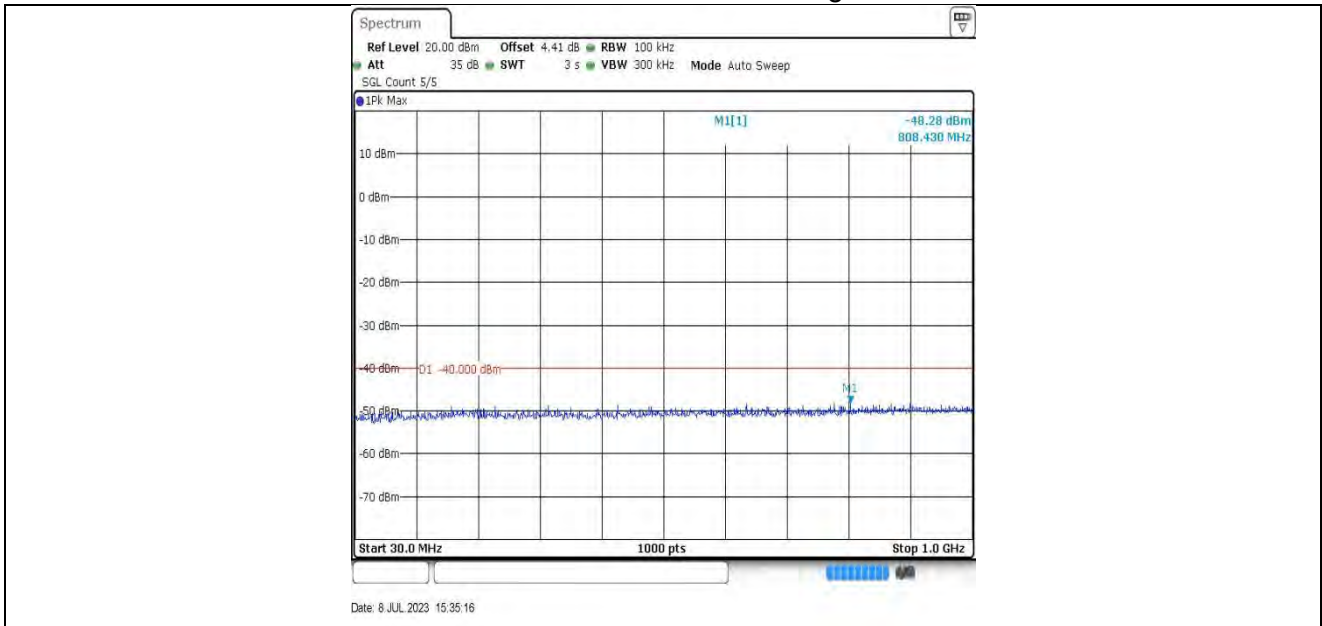
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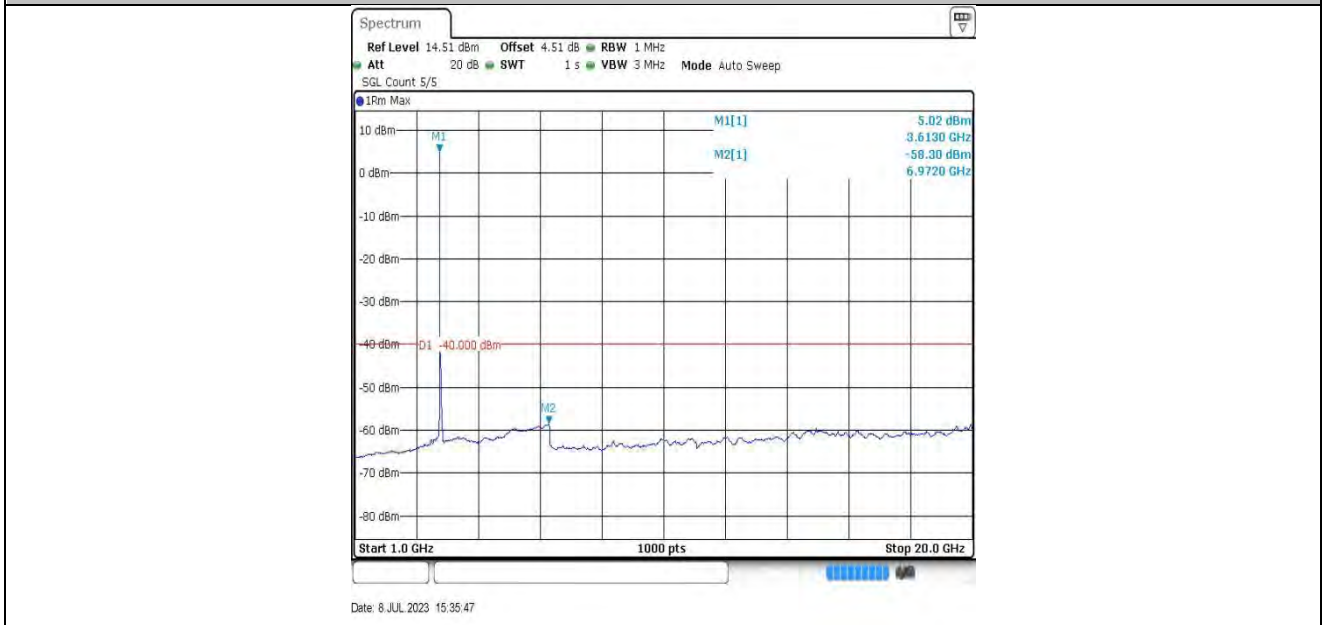
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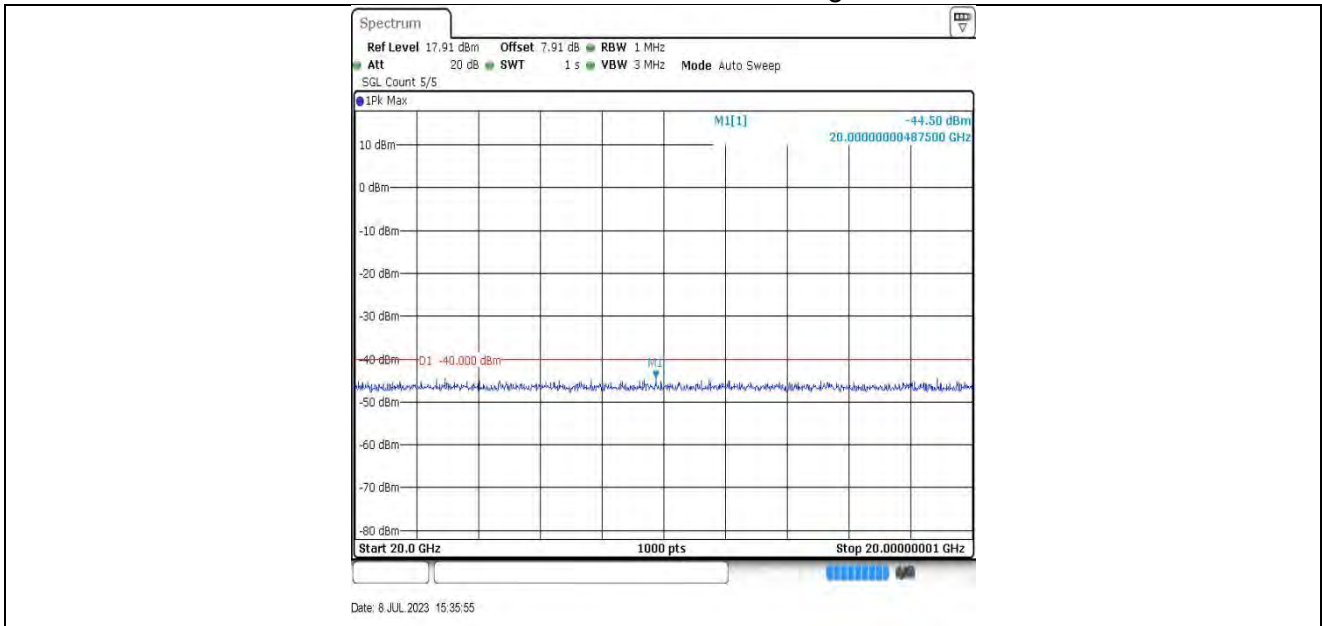


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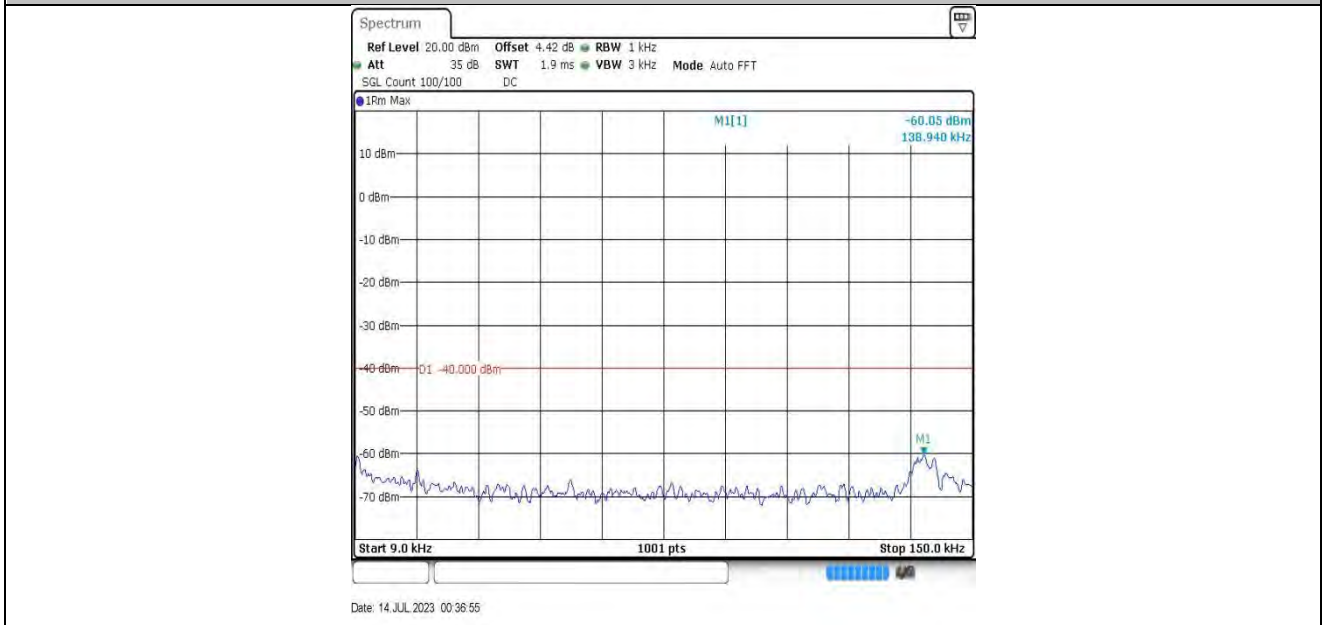


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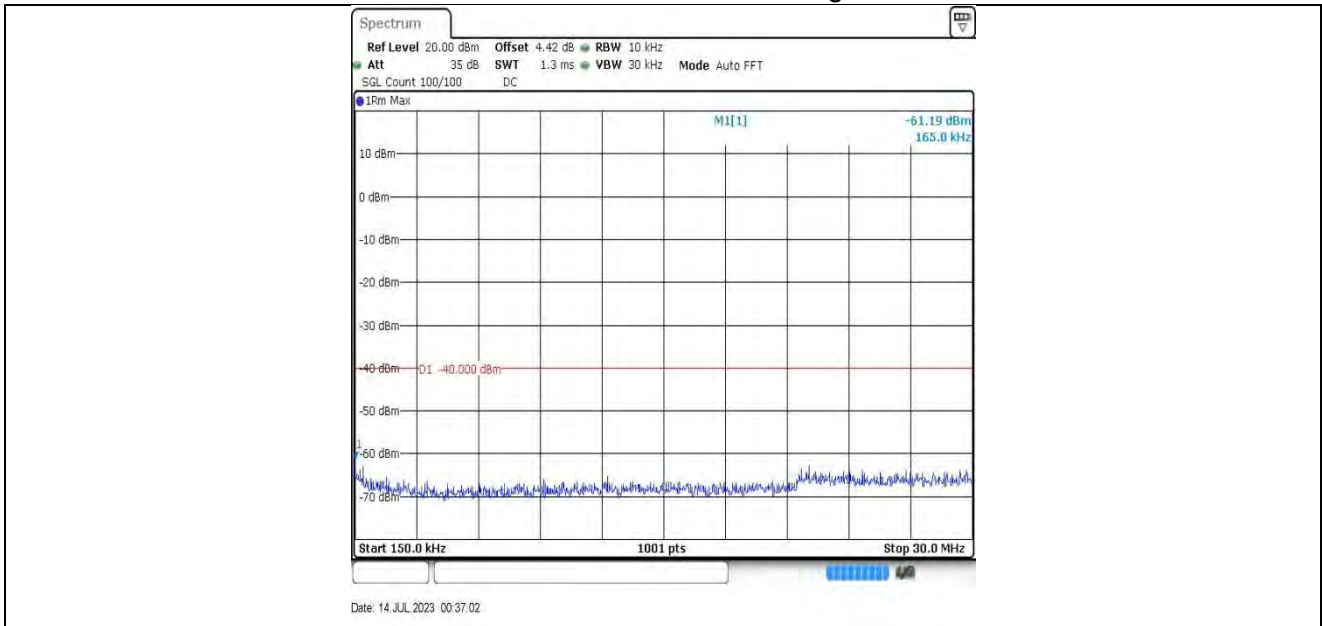
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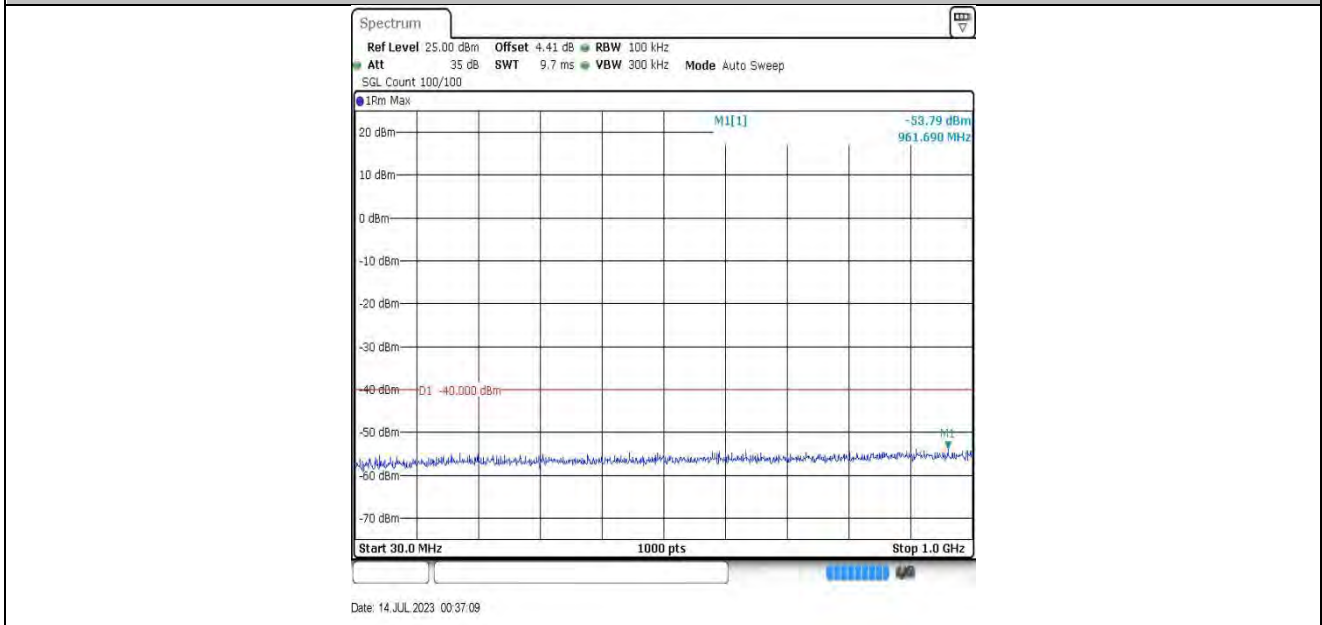
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Field Strength of Spurious Radiation

Test Band = LTE Band48CA_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7432.075	39.73	-42.91	36.41	-62.03	-40.00	22.03	Horizontal
2	8655.1	38.03	-41.14	36.47	-61.90	-40.00	21.90	Horizontal
3	10112.15	33.73	-38.77	38.26	-62.04	-40.00	22.04	Horizontal
4	11217.3	30.34	-36.71	38.72	-62.91	-40.00	22.91	Horizontal
5	13389.075	27.90	-36.17	39.80	-63.73	-40.00	23.73	Horizontal
6	15329.7	27.43	-33.96	40.61	-61.18	-40.00	21.18	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7811.575	39.14	-42.60	36.72	-61.99	-40.00	21.99	Vertical
2	9097.275	36.07	-40.42	36.48	-63.13	-40.00	23.13	Vertical
3	10676.8	31.60	-37.61	38.54	-62.73	-40.00	22.73	Vertical
4	11455.925	30.98	-36.95	38.75	-62.49	-40.00	22.49	Vertical
5	13455.775	27.98	-36.39	39.92	-63.75	-40.00	23.75	Vertical
6	15351.55	26.95	-33.99	40.56	-61.74	-40.00	21.74	Vertical



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Test Band = LTE Band48CA_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7794.325	39.10	-42.60	36.72	-62.04	-40.00	22.04	Horizontal
2	8848.875	36.95	-41.03	36.38	-62.96	-40.00	22.96	Horizontal
3	9833.275	32.56	-39.11	37.88	-63.92	-40.00	23.92	Horizontal
4	10936.125	30.62	-37.73	38.67	-63.70	-40.00	23.70	Horizontal
5	15325.675	26.49	-33.96	40.62	-62.11	-40.00	22.11	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7869.075	39.00	-42.69	36.75	-62.20	-40.00	22.20	Vertical
2	8617.15	37.49	-40.97	36.49	-62.25	-40.00	22.25	Vertical
3	9636.05	34.89	-39.30	37.51	-62.16	-40.00	22.16	Vertical
4	10822.275	30.91	-38.32	38.61	-64.06	-40.00	24.06	Vertical
5	12802	28.54	-36.63	39.04	-64.30	-40.00	24.30	Vertical
6	15155.475	27.03	-34.08	40.97	-61.34	-40.00	21.34	Vertical



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Test Band = LTE Band48CA_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7406.2	40.10	-42.81	36.34	-61.64	-40.00	21.64	Horizontal
2	8405.55	38.81	-41.39	36.60	-61.25	-40.00	21.25	Horizontal
3	9439.975	35.73	-39.94	37.14	-62.33	-40.00	22.33	Horizontal
4	10339.275	33.16	-38.87	38.37	-62.60	-40.00	22.60	Horizontal
5	11218.45	30.46	-36.72	38.72	-62.79	-40.00	22.79	Horizontal
6	14629.925	27.55	-35.17	41.15	-61.73	-40.00	21.73	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7963.375	38.93	-42.35	36.79	-61.90	-40.00	21.90	Vertical
2	9522.775	35.36	-39.79	37.29	-62.39	-40.00	22.39	Vertical
3	10341	32.35	-38.87	38.37	-63.41	-40.00	23.41	Vertical
4	12320.725	28.50	-36.71	38.90	-64.58	-40.00	24.58	Vertical
5	13964.65	27.52	-35.06	40.84	-61.96	-40.00	21.96	Vertical
6	15154.9	26.89	-34.08	40.97	-61.48	-40.00	21.48	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
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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