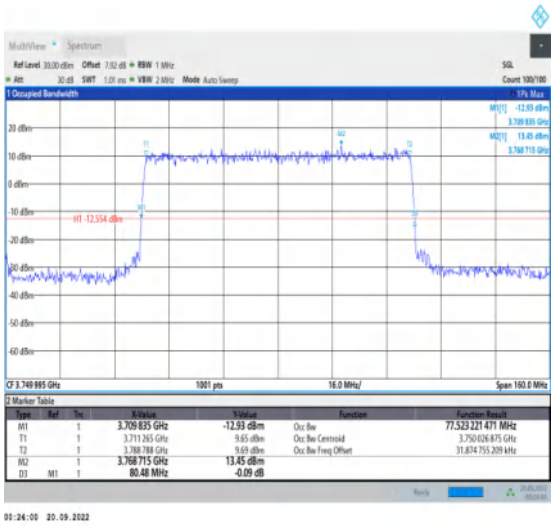

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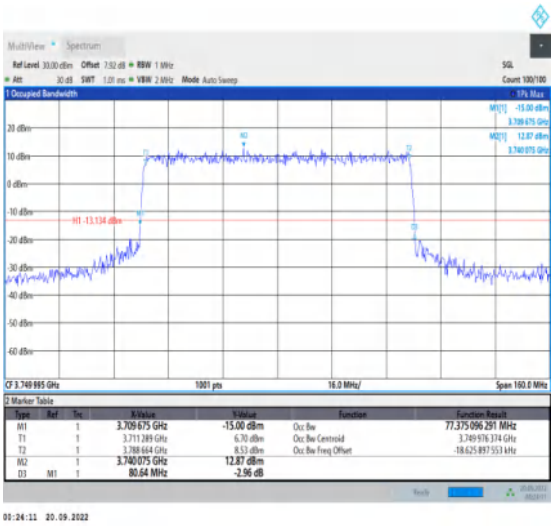

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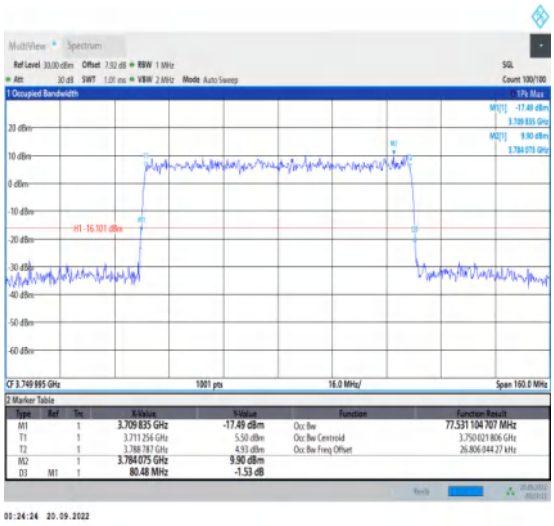

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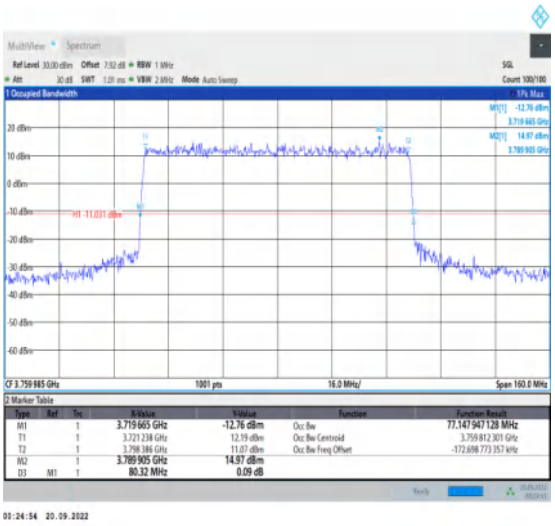

1-N78-3700-3800-30-80-H-1-DFT-QPSK-Outer_Full-216@0-Ant1-77.148-80.320-≤80-PASS

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1-N78-3700-3800-30-80-H-2-DFT-PI2BPSK-Outer_Full-216@0-Ant1-76.958-80.320-≤80-PASS

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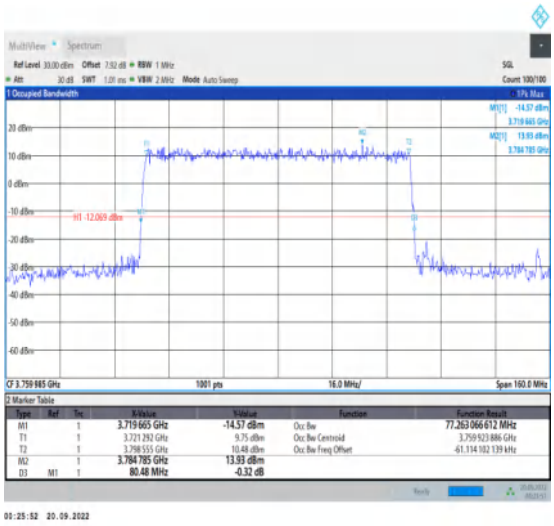

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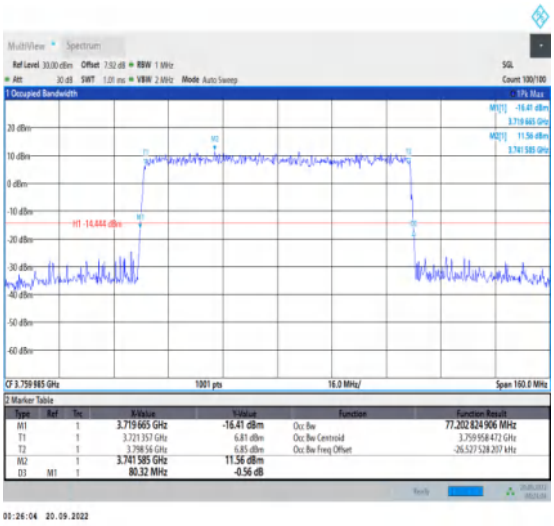

1-N78-3700-3800-30-80-H-5-DFT-256QAM-Outer_Full-216@0-Ant1-77.203-80.320-≤80-PASS

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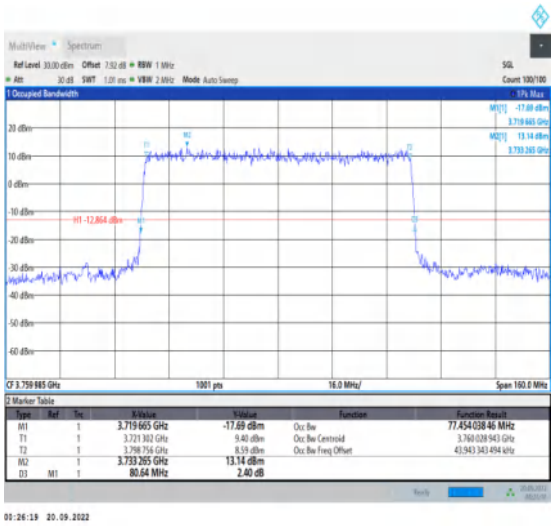

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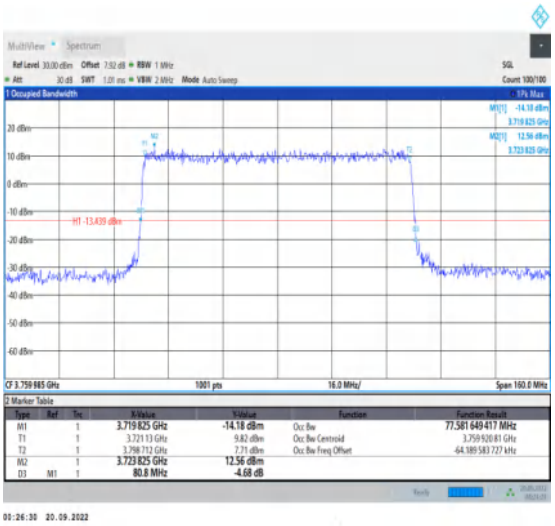

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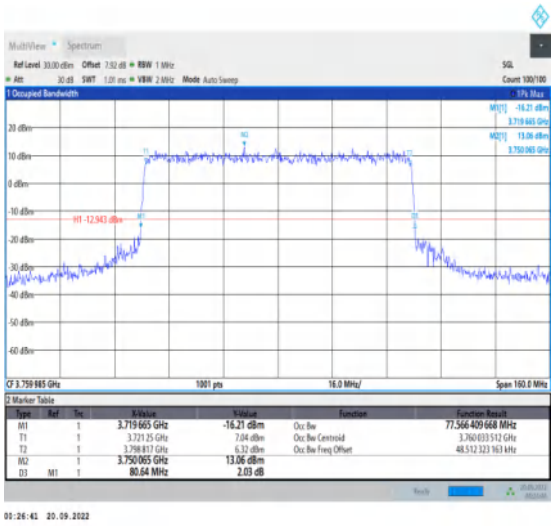

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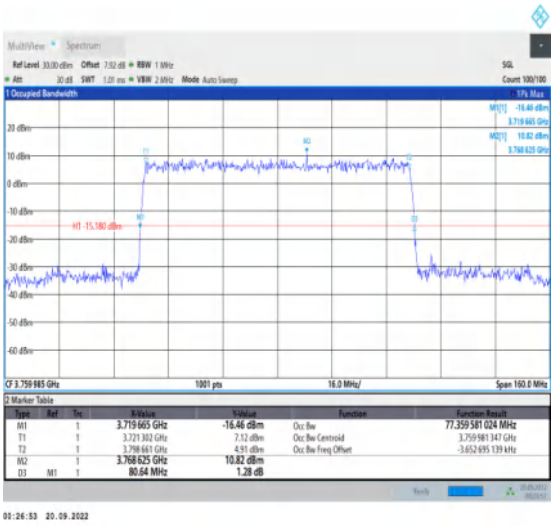

1-N78-3700-3800-30-80-H-9-CP-256QAM-Outer_Full-217@0-Ant1-77.36-80.640-≤80-PASS

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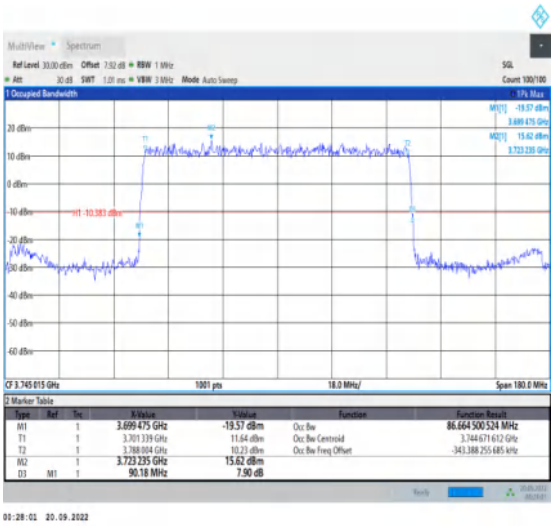
1-N78-3700-3800-30-90-L-1-DFT-QPSK-Outer_Full-243@0-Ant1-86.666-90.360-≤90-PASS



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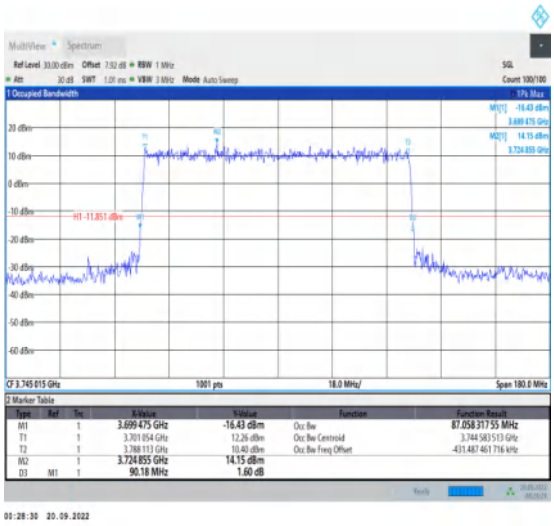

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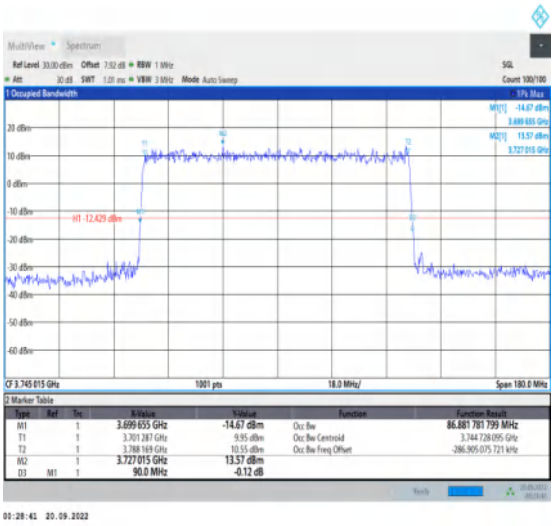

1-N78-3700-3800-30-90-L-4-DFT-64QAM-Outer_Full-243@0-Ant1-86.882-90.000-≤90-PASS

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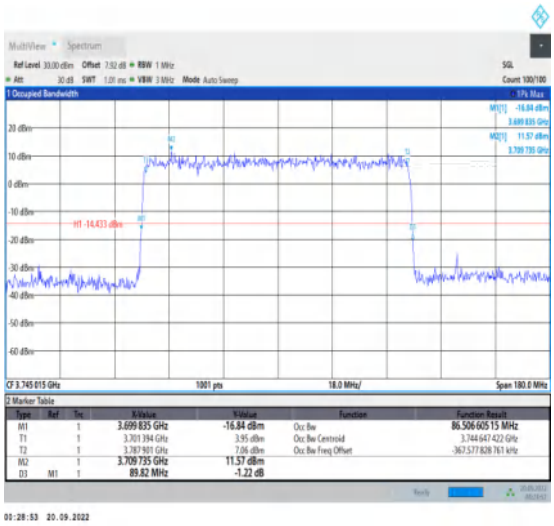

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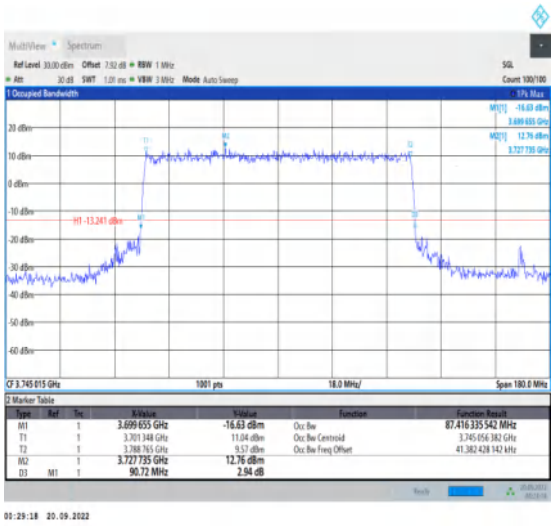

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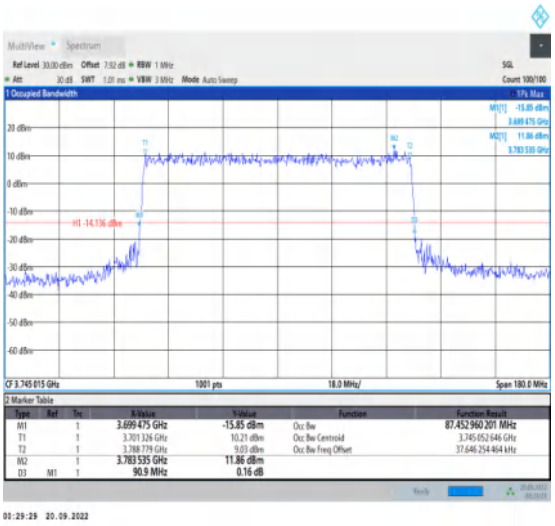

1-N78-3700-3800-30-90-L-8-CP-64QAM-Outer_Full-245@0-Ant1-87.453-90.900-≤90-PASS

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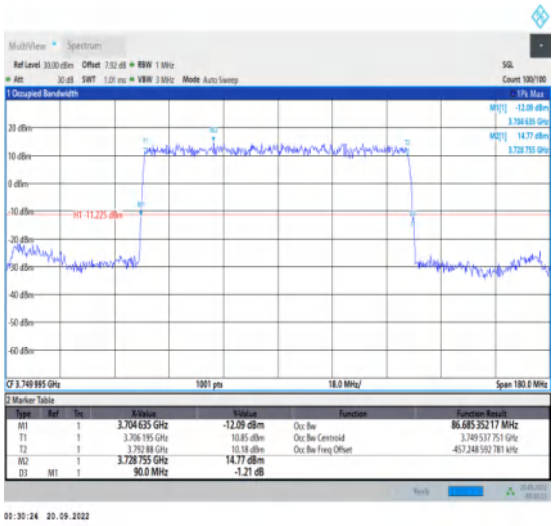
1-N78-3700-3800-30-90-M-1-DFT-QPSK-Outer_Full-243@0-Ant1-86.536-90.000-≤90-PASS



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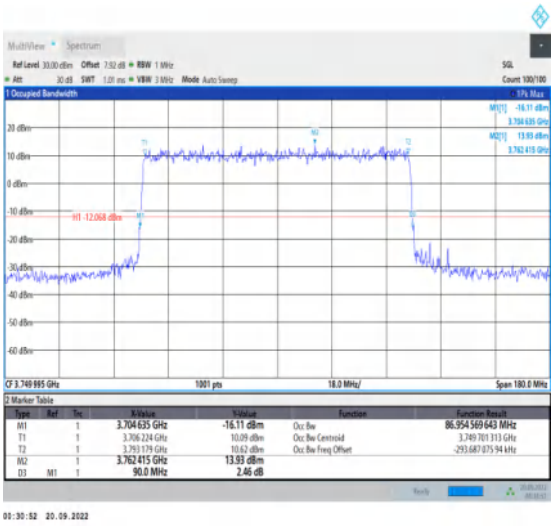

1-N78-3700-3800-30-90-M-3-DFT-16QAM-Outer_Full-243@0-Ant1-86.955-90.000-≤90-PASS

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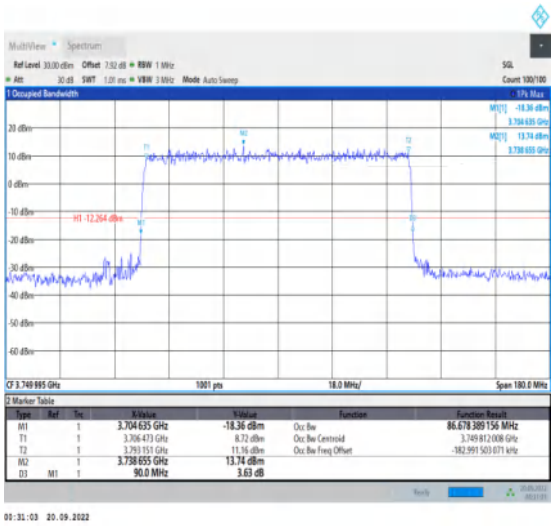

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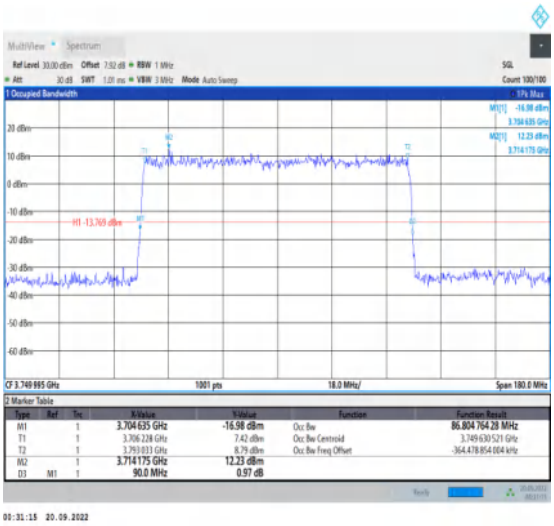

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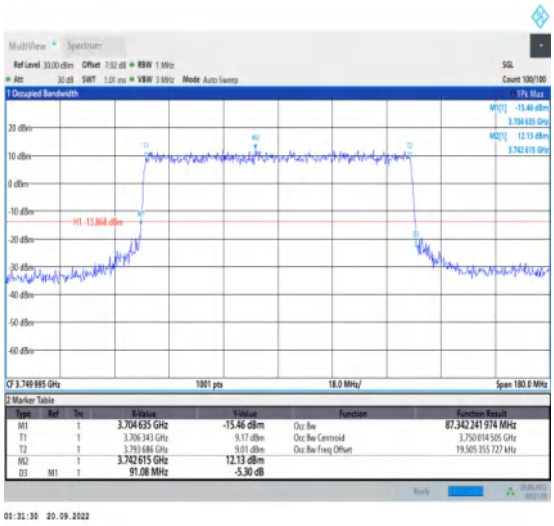

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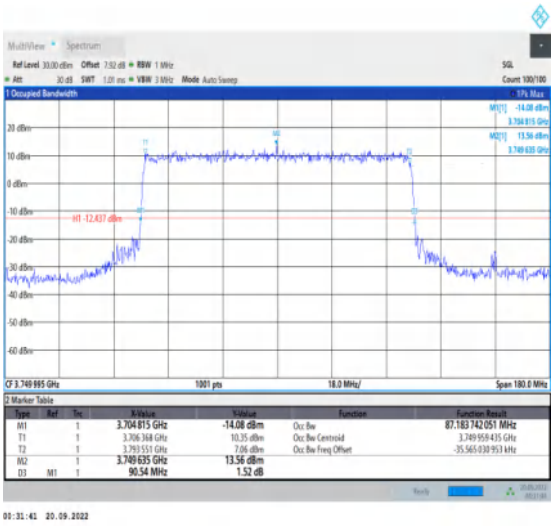

1-N78-3700-3800-30-90-M-7-CP-16QAM-Outer_Full-245@0-Ant1-87.184-90.540-≤90-PASS

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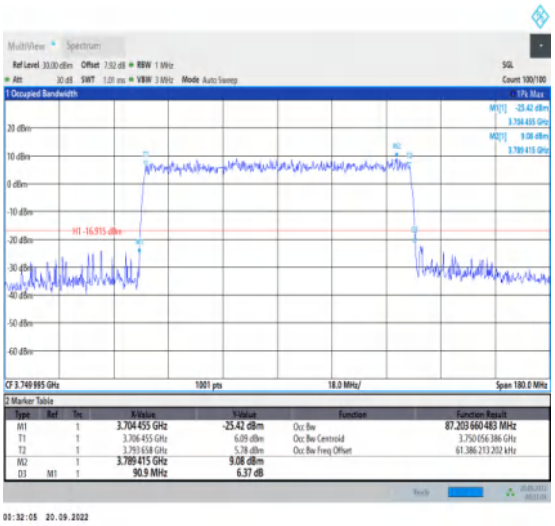
1-N78-3700-3800-30-90-M-8-CP-64QAM-Outer_Full-245@0-Ant1-87.482-90.720-≤90-PASS



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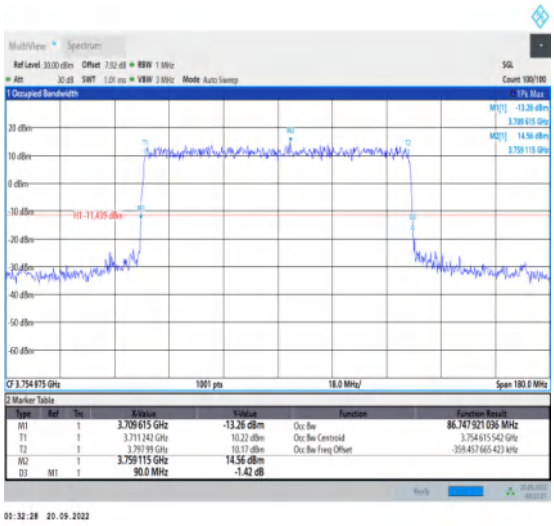

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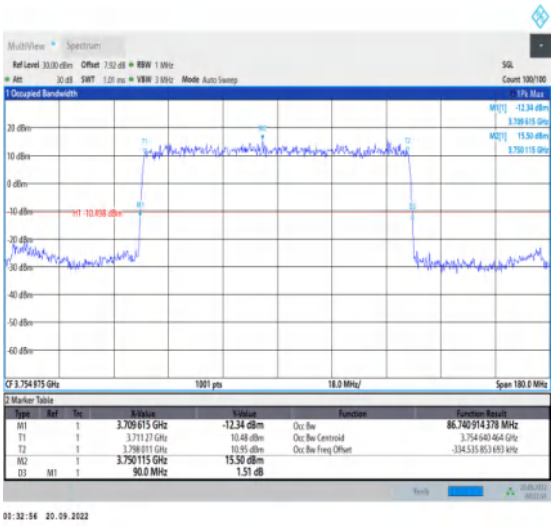

1-N78-3700-3800-30-90-H-2-DFT-PI2BPSK-Outer_Full-243@0-Ant1-86.741-90.000-≤90-PASS

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1-N78-3700-3800-30-90-H-3-DFT-16QAM-Outer_Full-243@0-Ant1-86.799-90.000-≤90-PASS

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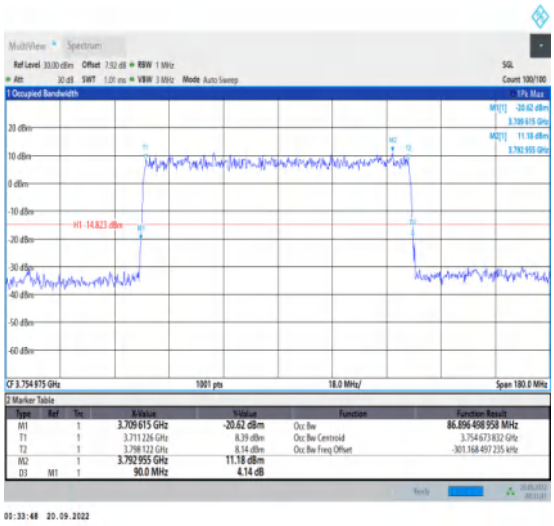

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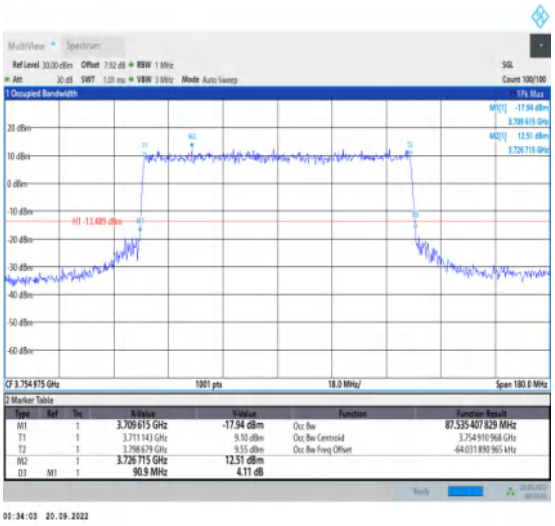

1-N78-3700-3800-30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant1-87.535-90.900-≤90-PASS

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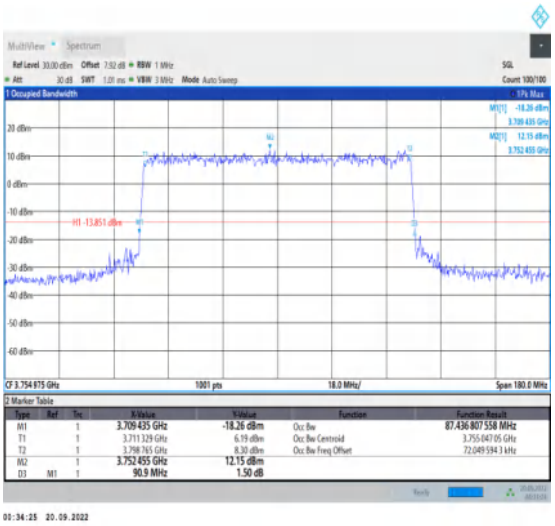

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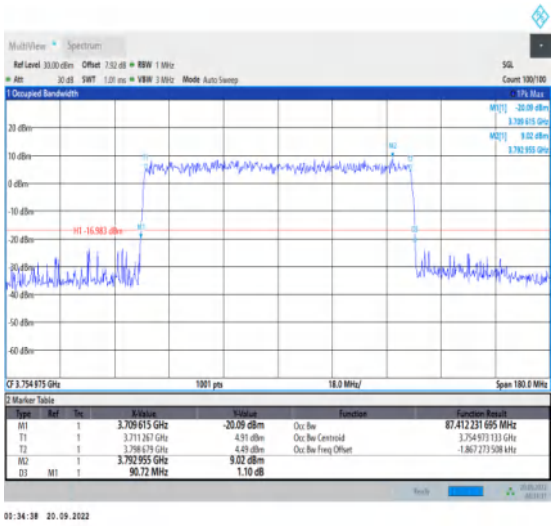

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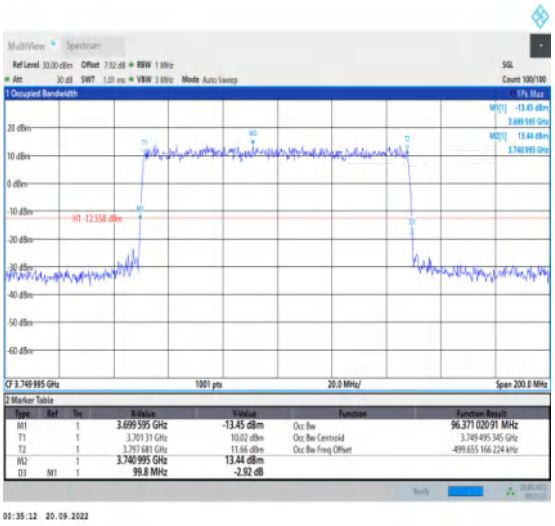

1-N78-3700-3800-30-100-L-1-DFT-QPSK-Outer_Full-270@0-Ant1-96.371-99.800-≤100-PASS

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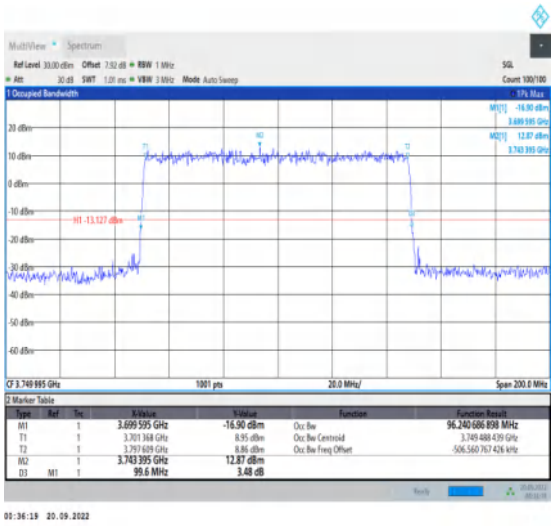

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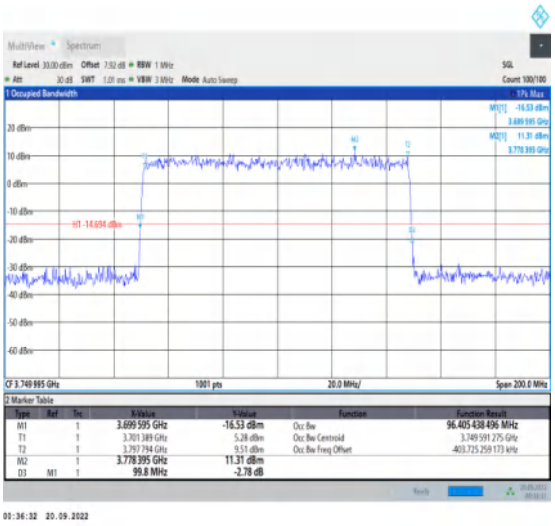

1-N78-3700-3800-30-100-L-5-DFT-256QAM-Outer_Full-270@0-Ant1-96.405-99.800-≤100-PASS

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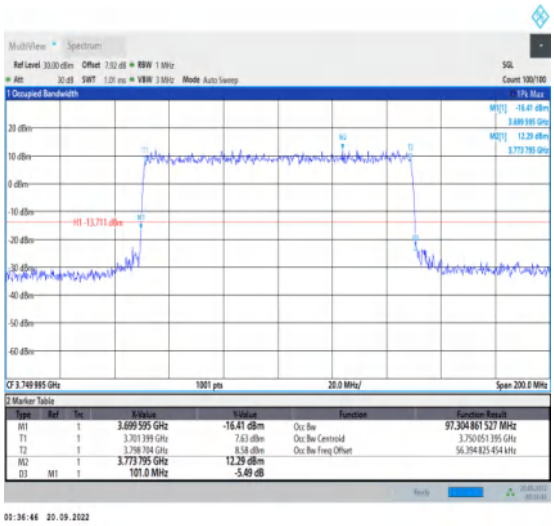

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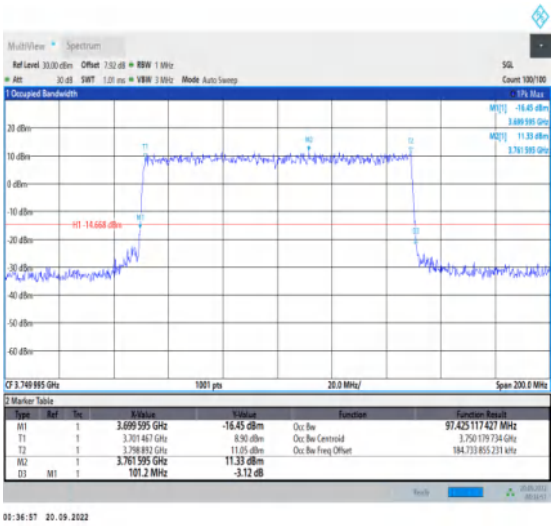

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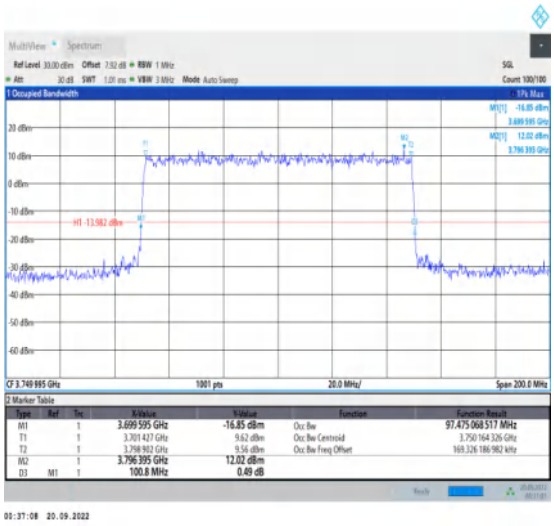

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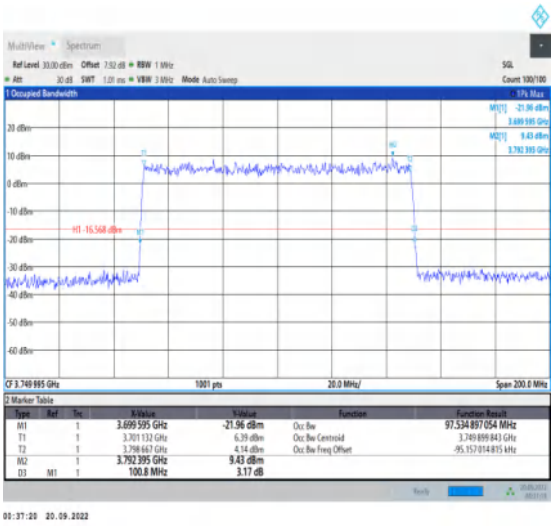

1-N78-3700-3800-30-100-L-9-CP-256QAM-Outer_Full-273@0-Ant1-97.535-100.800-≤100-PASS

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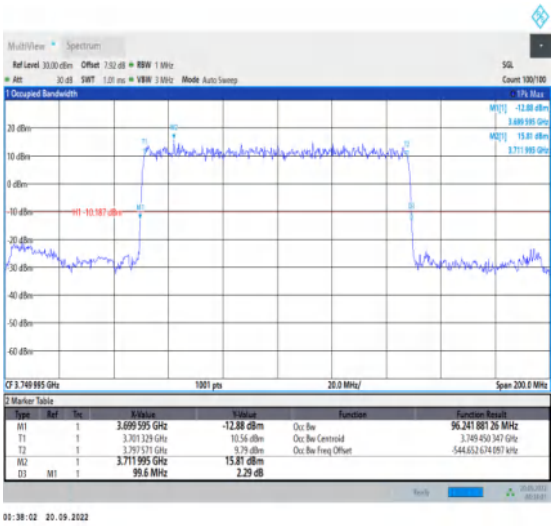
1-N78-3700-3800-30-100-M-1-DFT-QPSK-Outer_Full-270@0-Ant1-96.406-99.800-≤100-PASS



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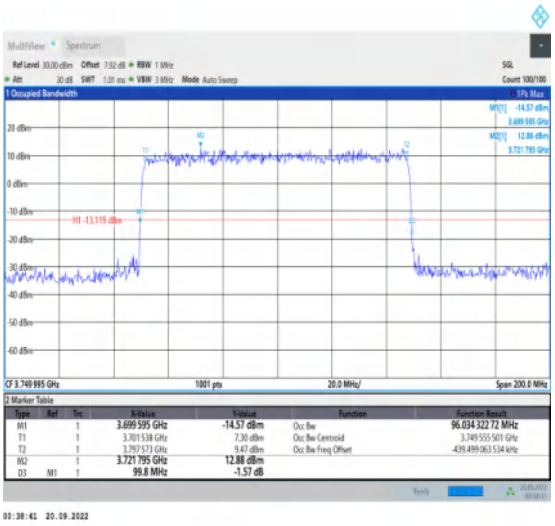

1-N78-3700-3800-30-100-M-4-DFT-64QAM-Outer_Full-270@0-Ant1-96.034-99.800-≤100-PASS

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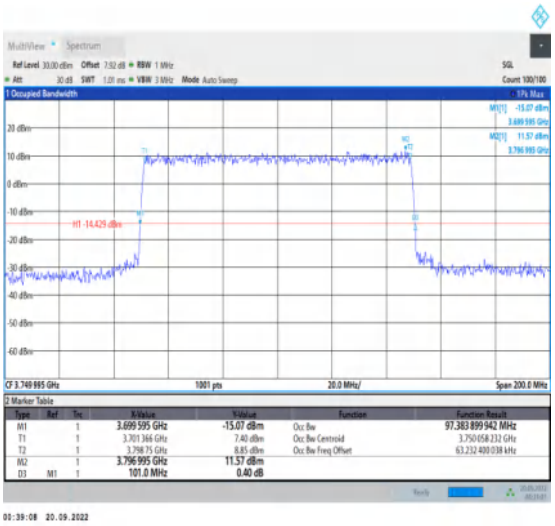

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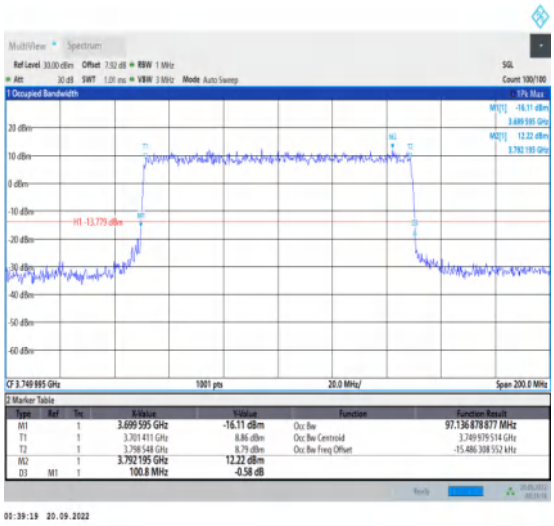

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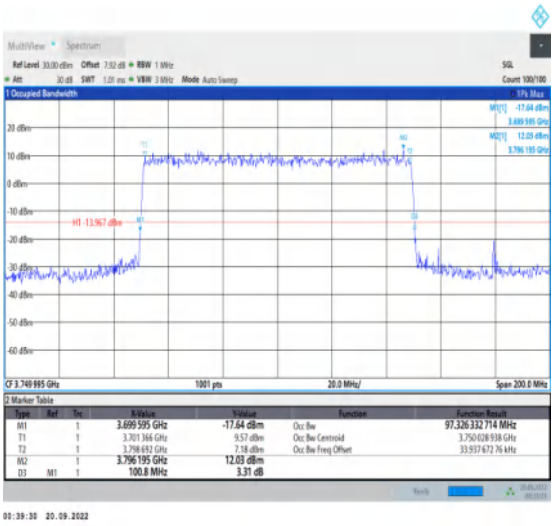

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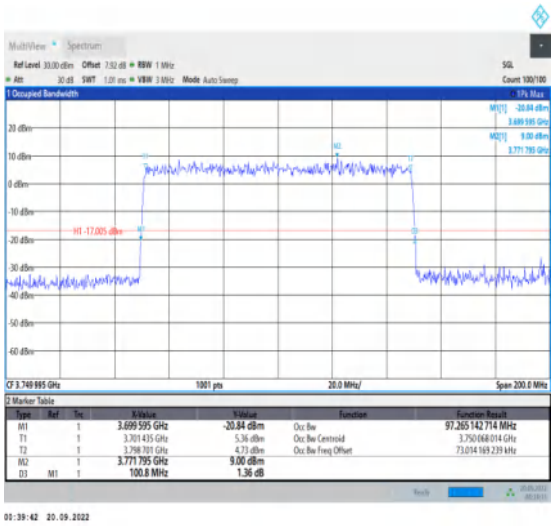

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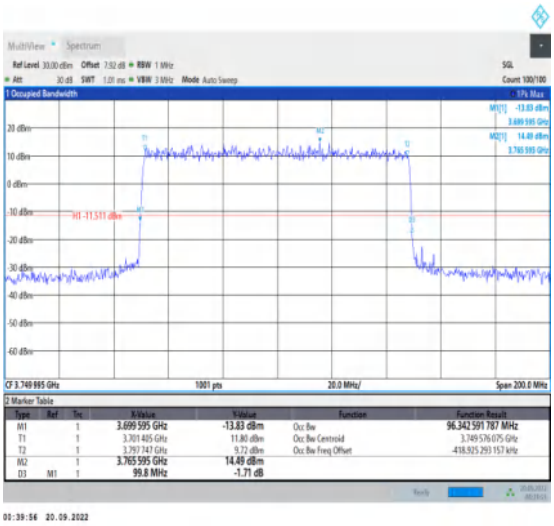

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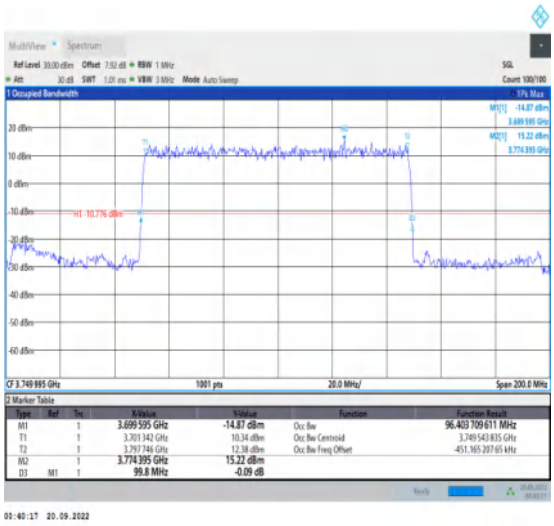

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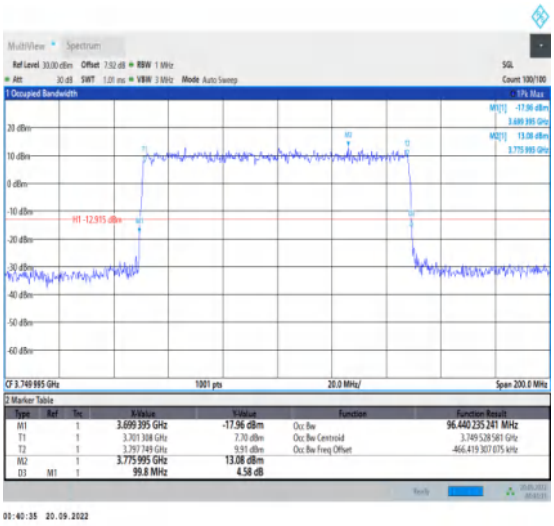

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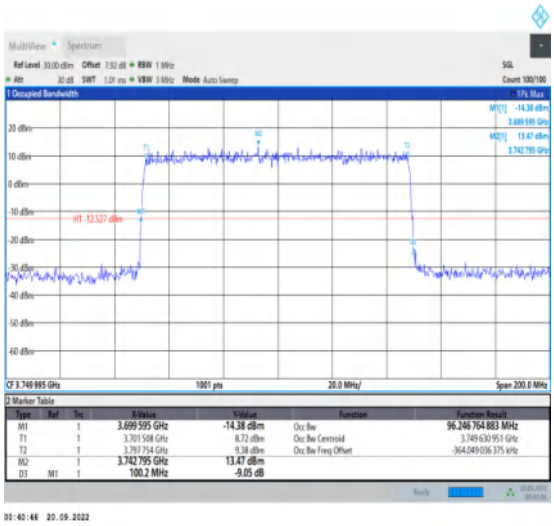

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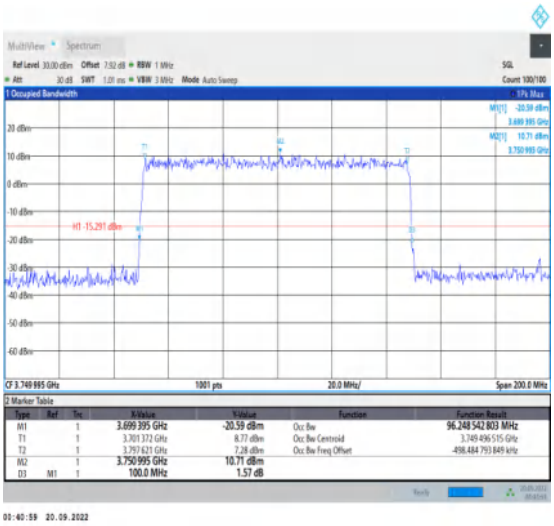

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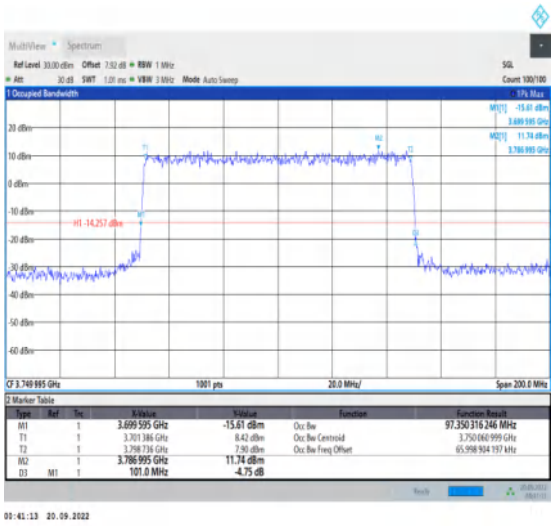

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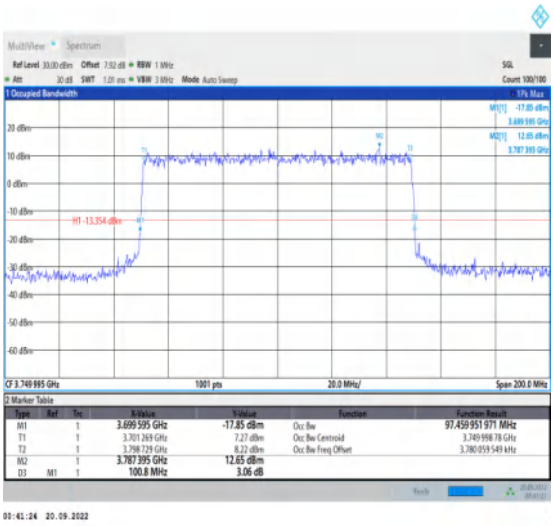

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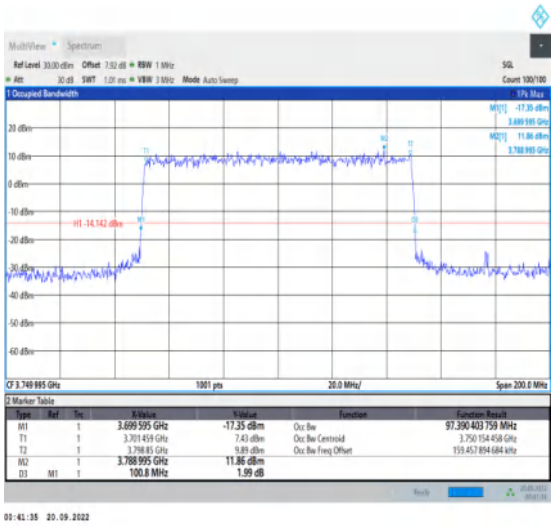	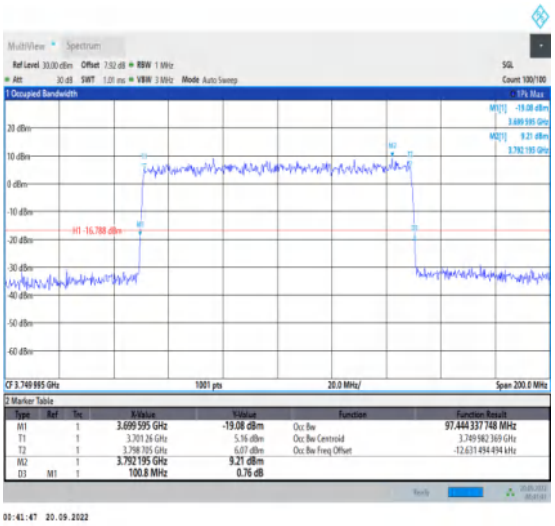
1-N78-3700-3800-30-100-H-8-CP-64QAM-Outer_Full-273@0-Ant1-97.39-100.800-≤100-PASS	1-N78-3700-3800-30-100-H-9-CP-256QAM-Outer_Full-273@0-Ant1-97.444-100.800-≤100-PASS

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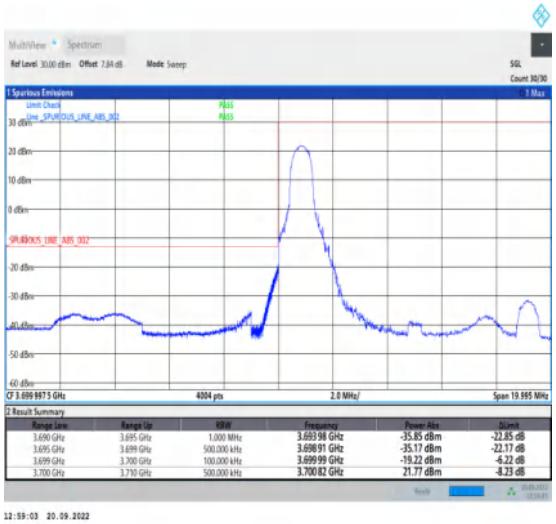
Band Edge for SA

Test Graphs



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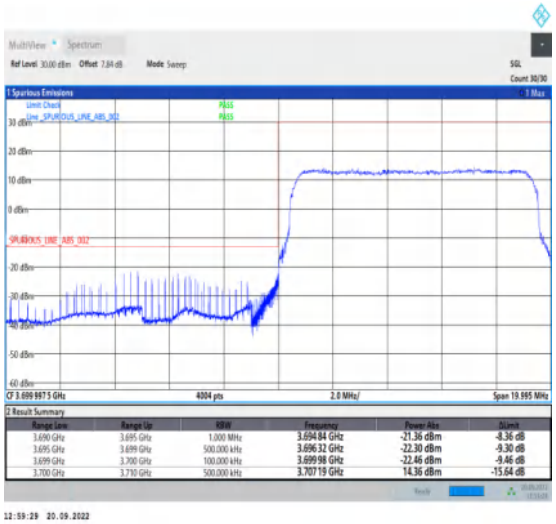

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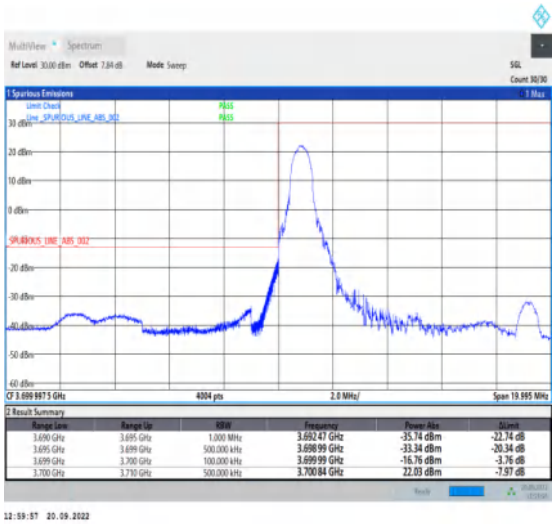

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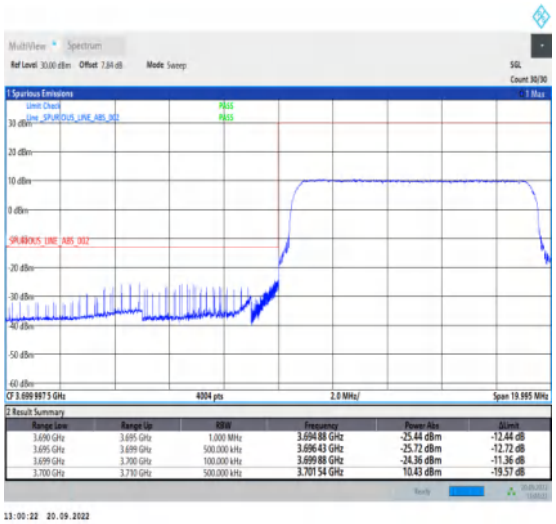

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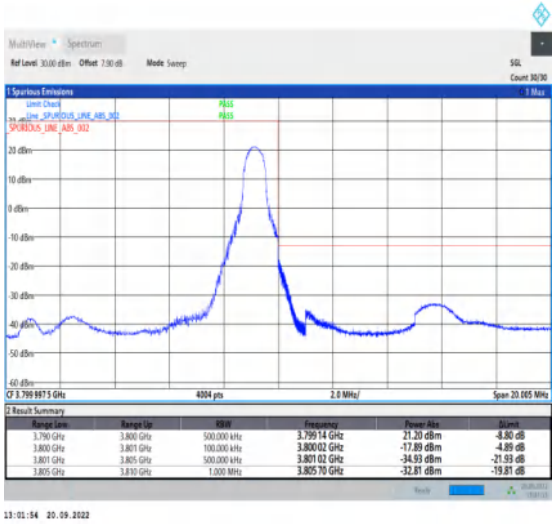

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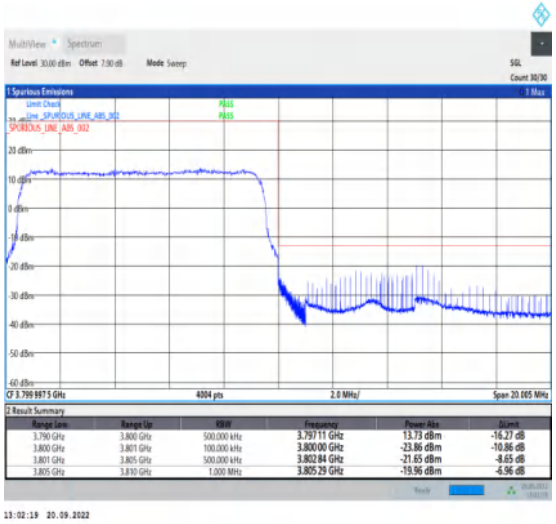

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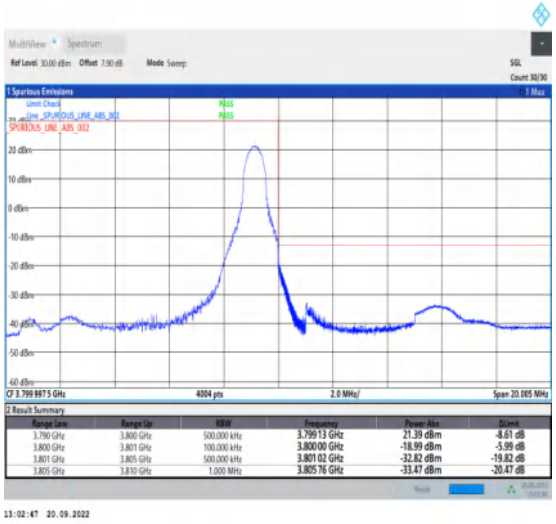

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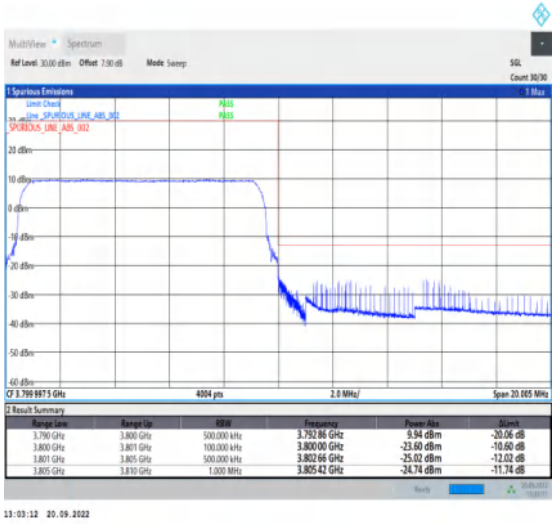

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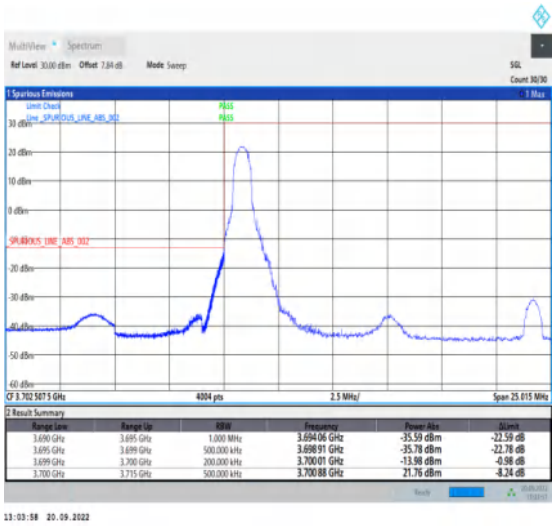

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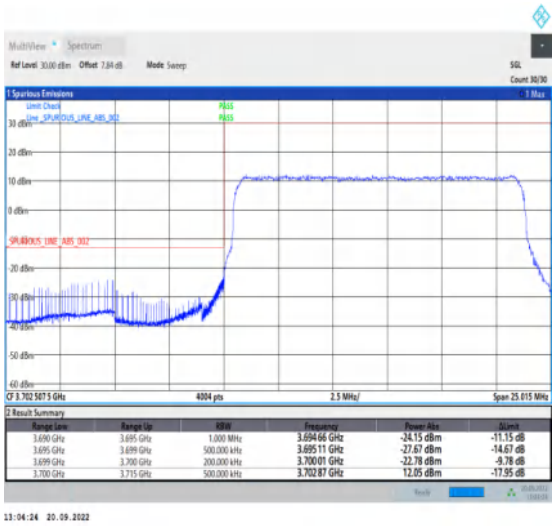

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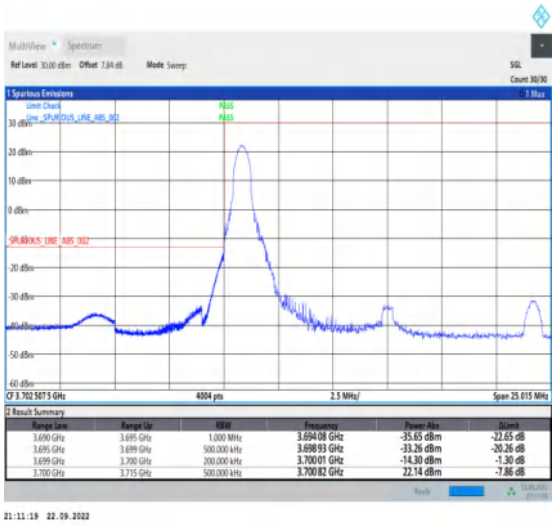

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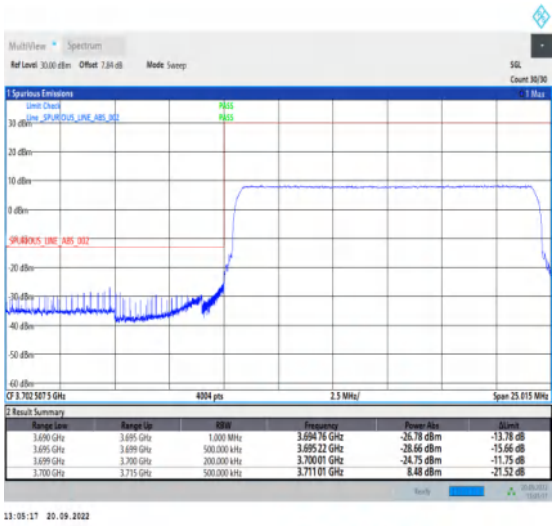

1-N78-3700-3800-30-15-L-6-CP-QPSK-Outer_Full-38@0-Ant1-1--PASS-see graph

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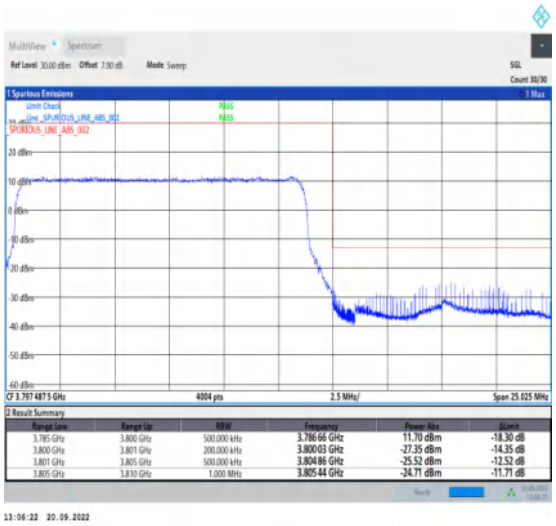

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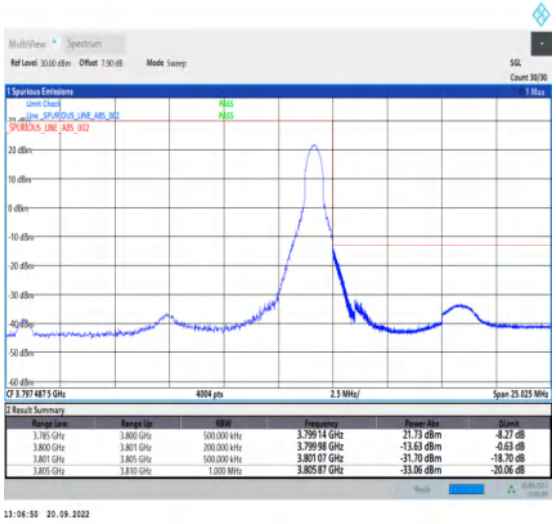

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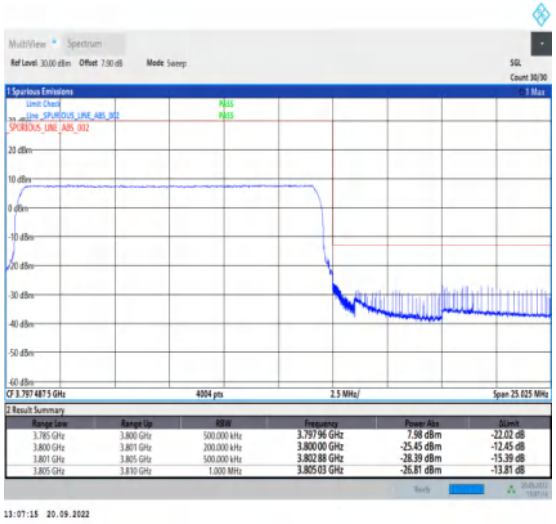

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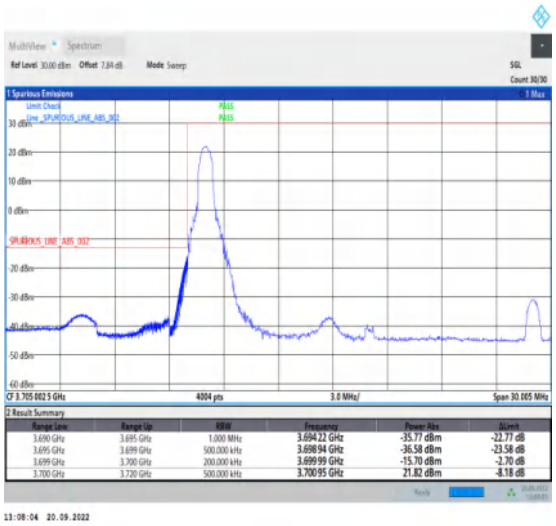

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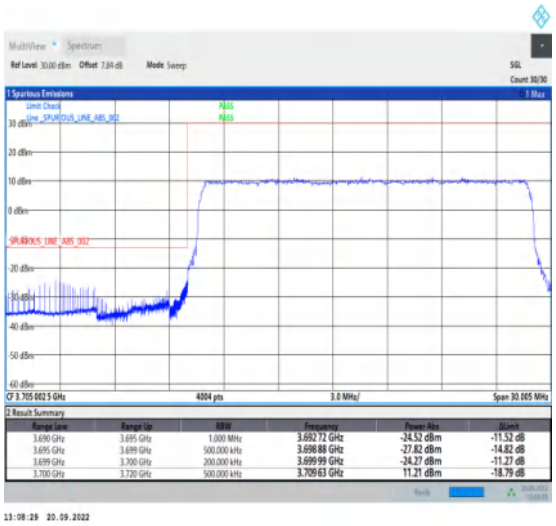

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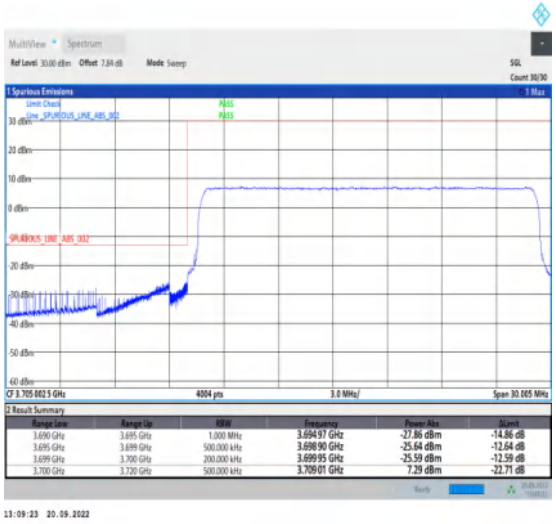

1-N78-3700-3800-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant1-1--PASS-see graph

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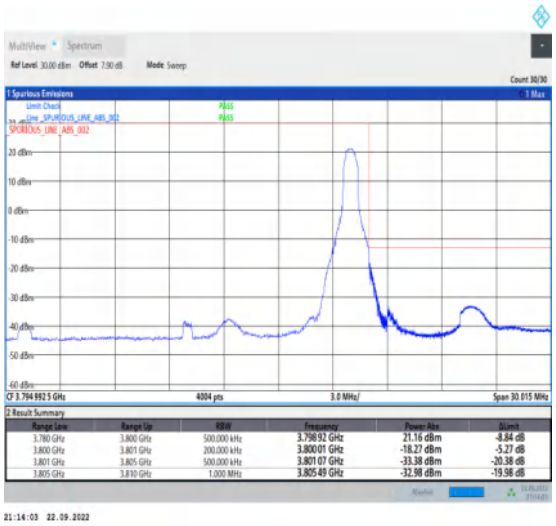

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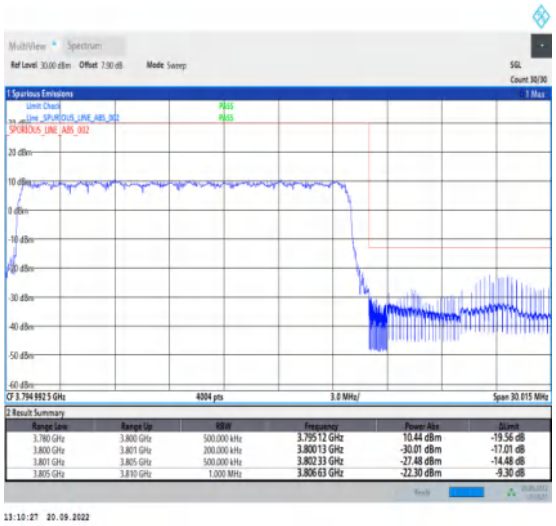

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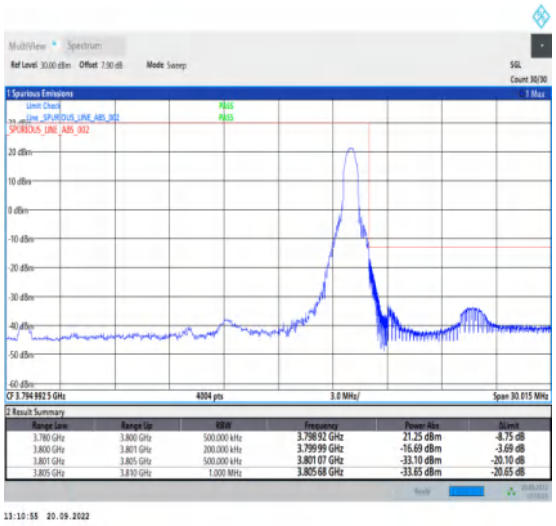

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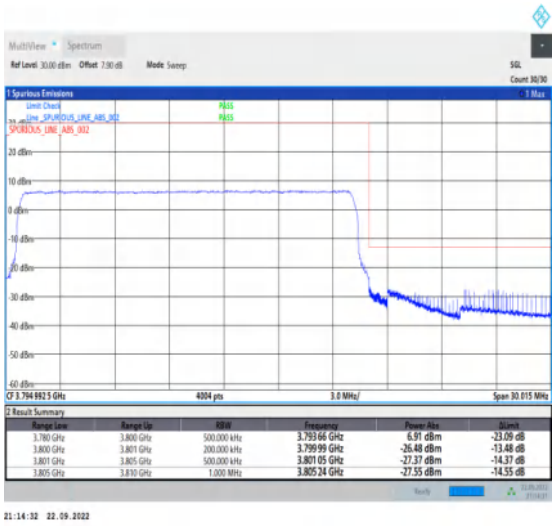

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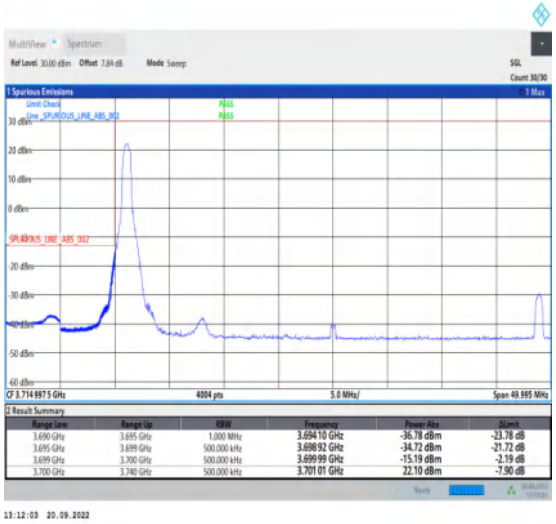

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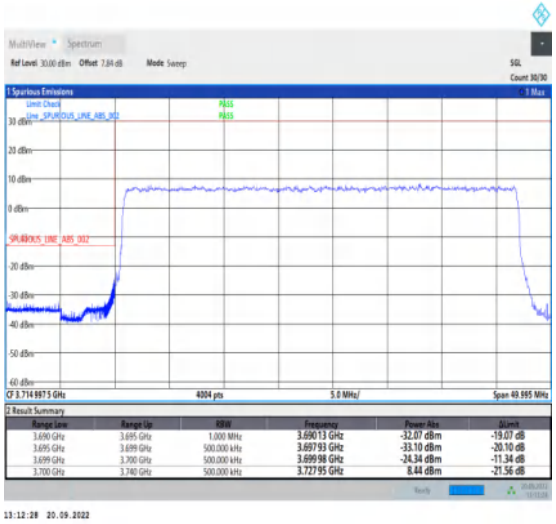

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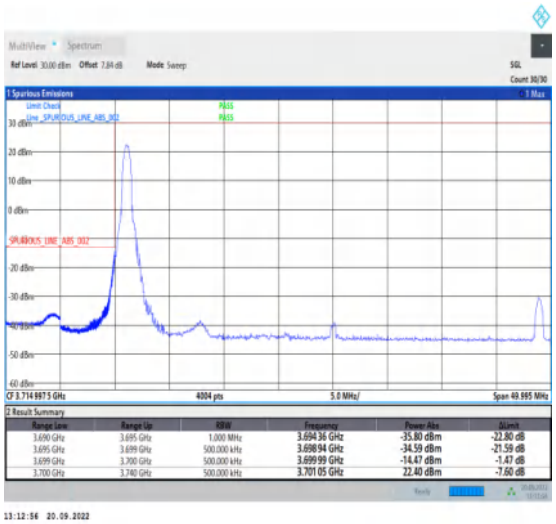

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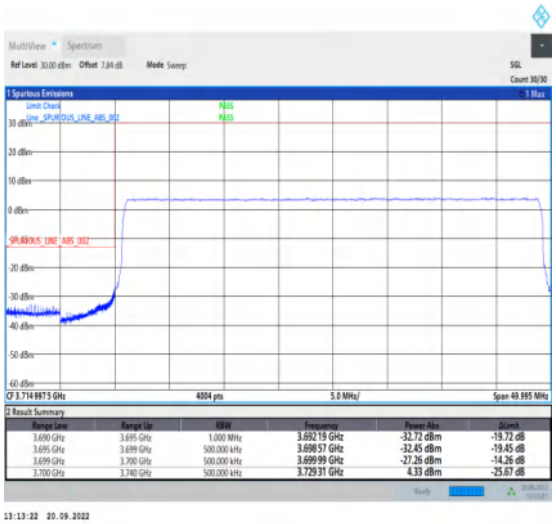

1-N78-3700-3800-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant1-1--PASS-see graph

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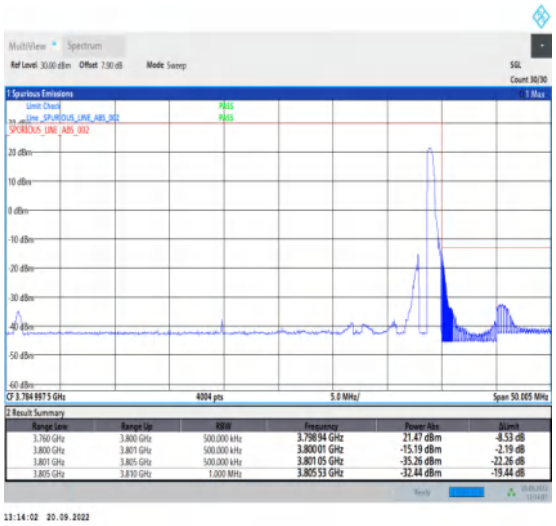

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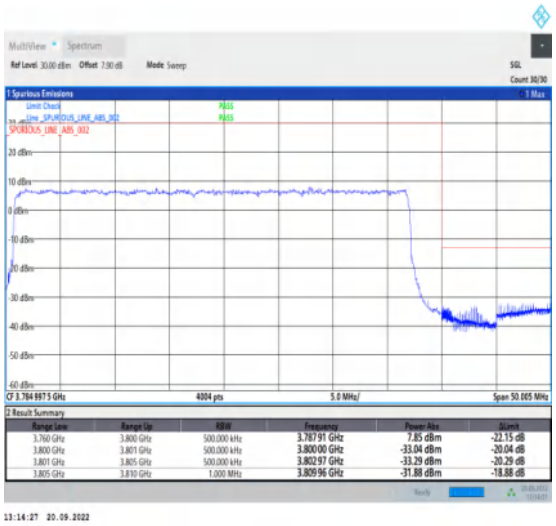

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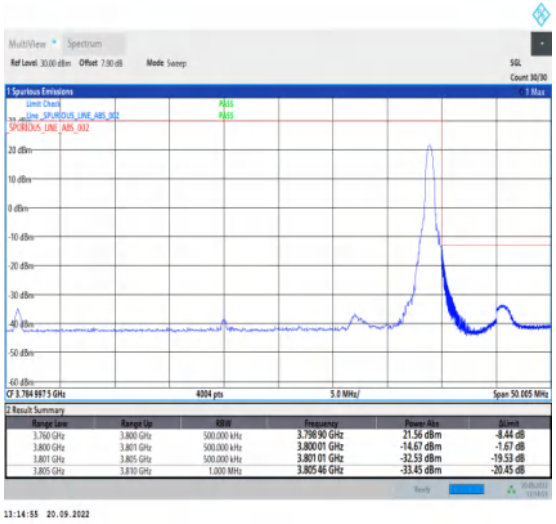

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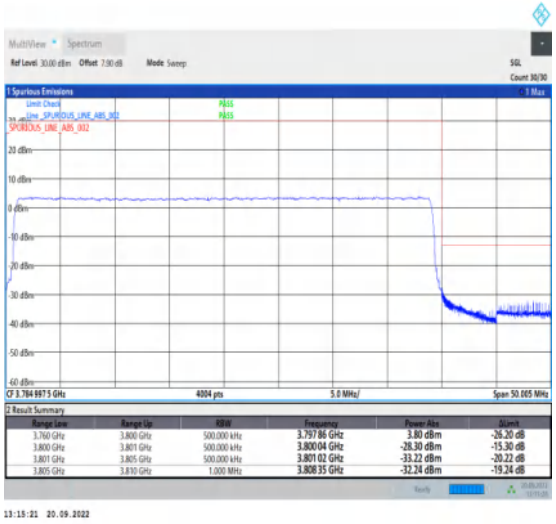

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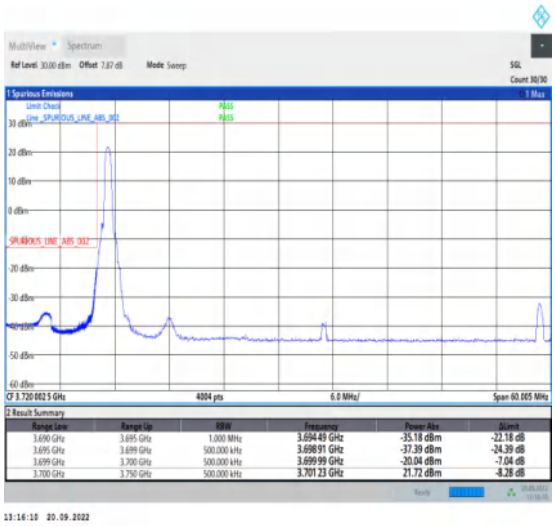

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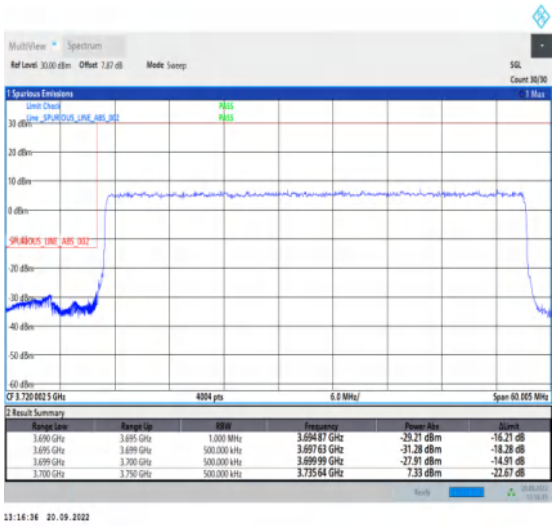

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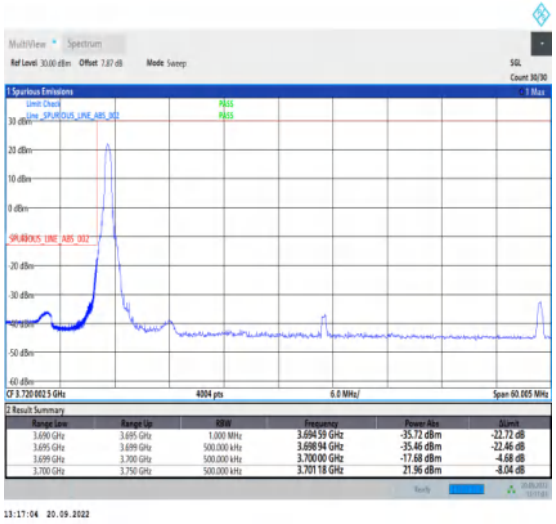

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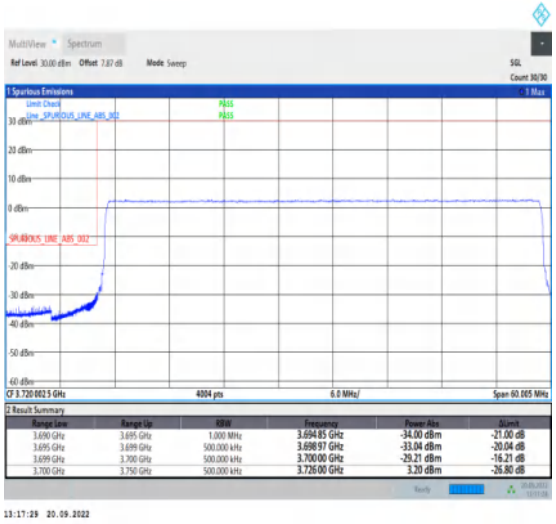

1-N78-3700-3800-30-50-L-6-CP-QPSK-Outer_Full-133@0-Ant1-1--PASS-see graph

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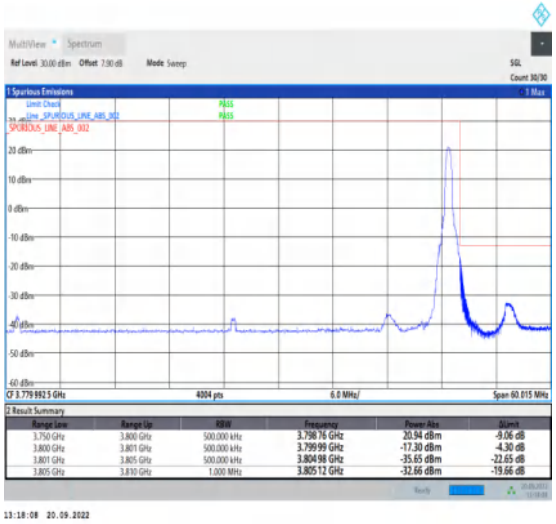

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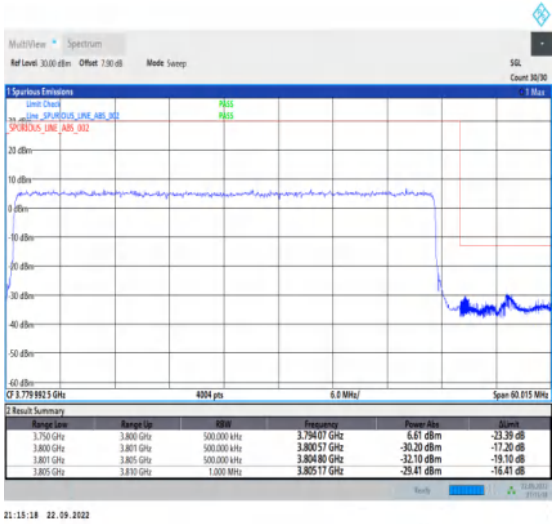

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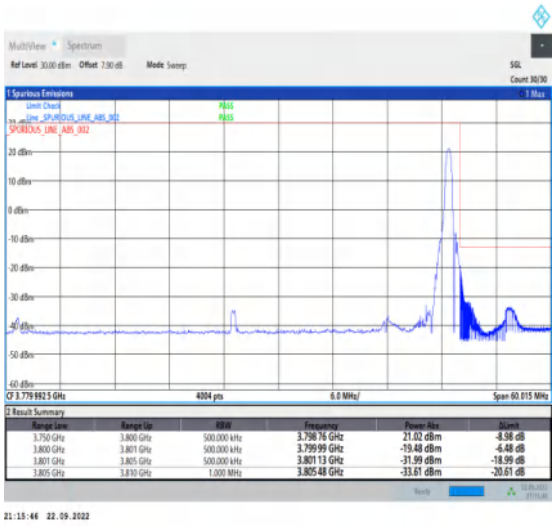

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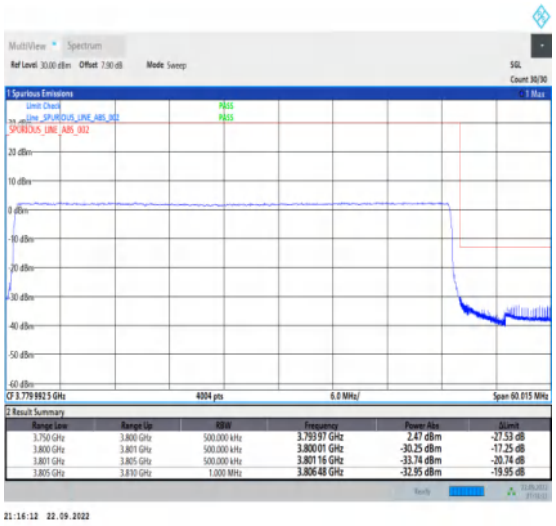

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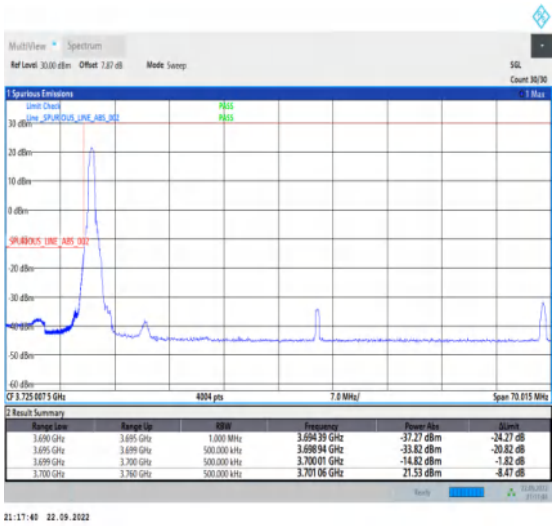

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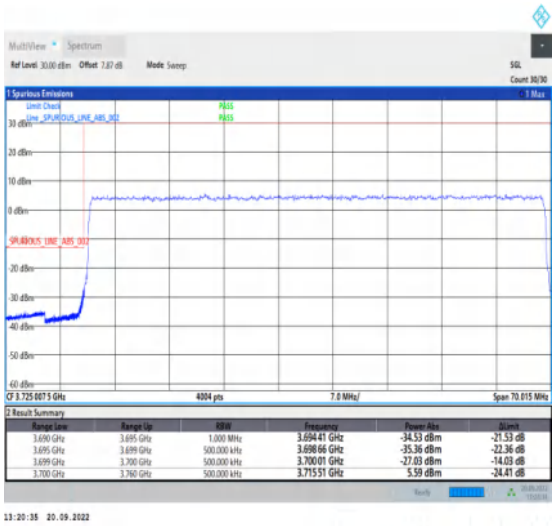

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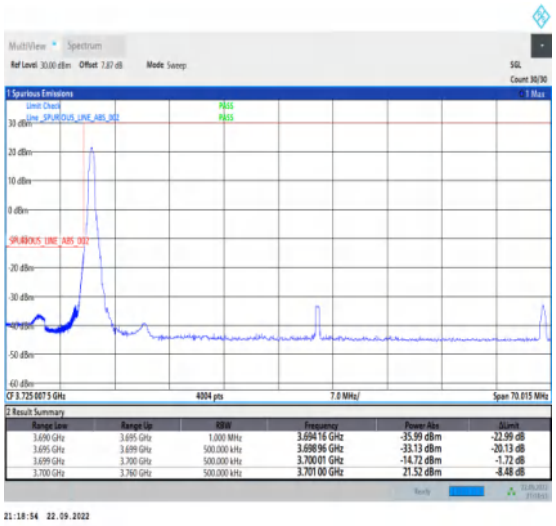

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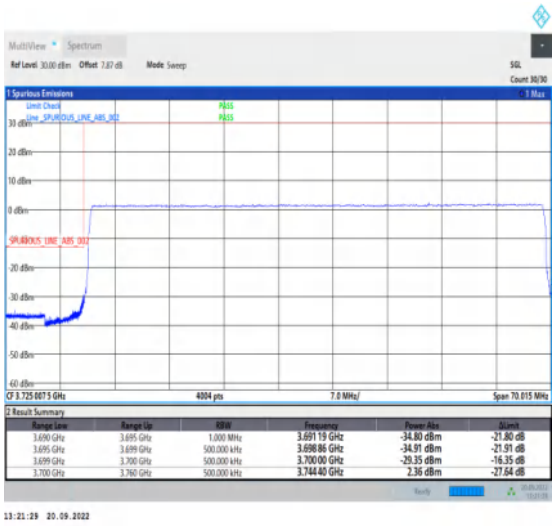

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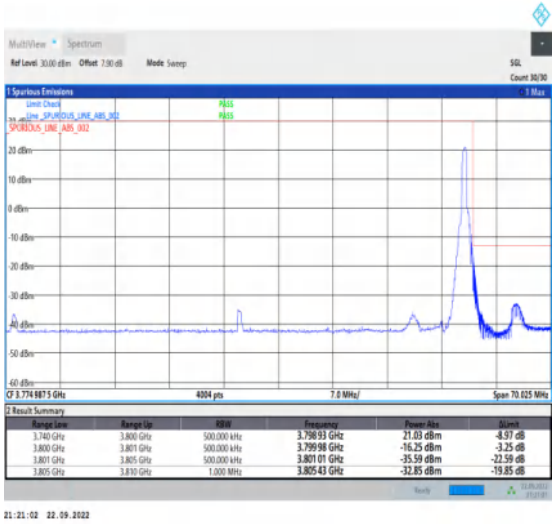

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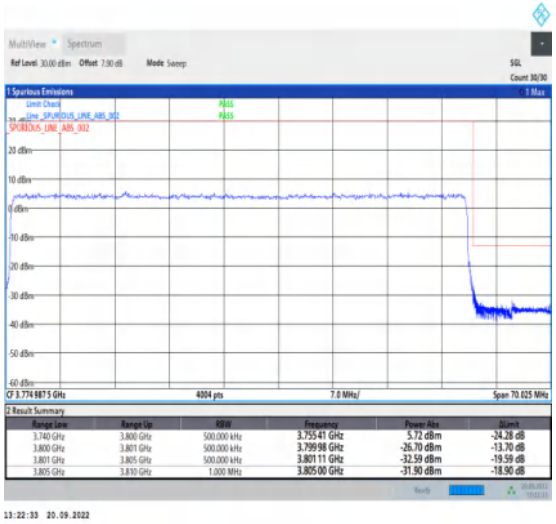

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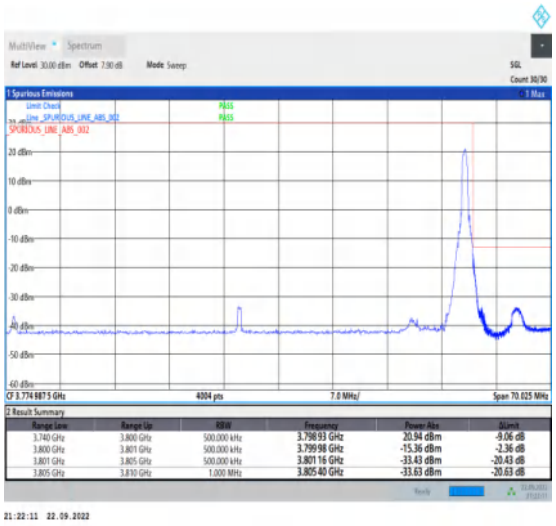

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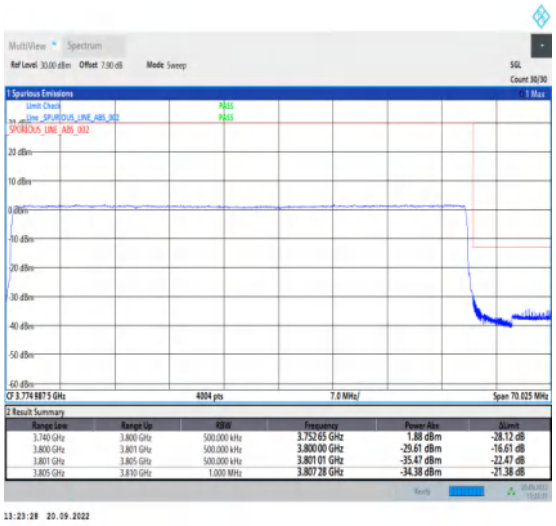

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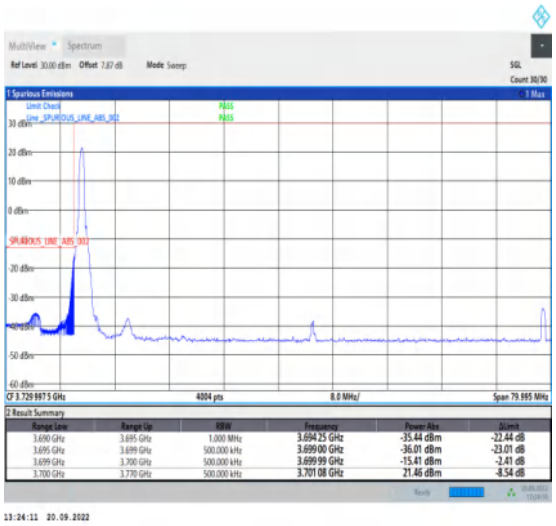

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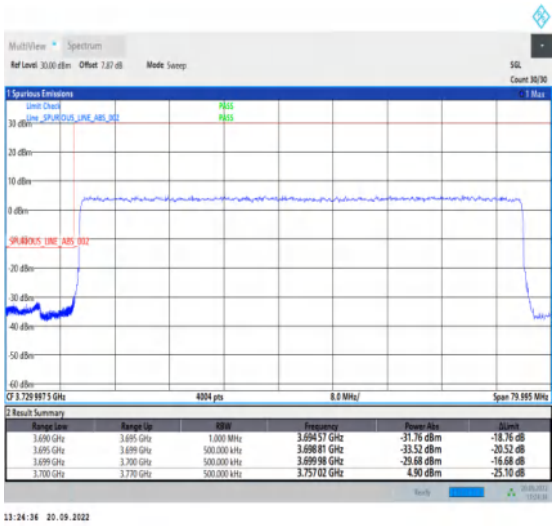

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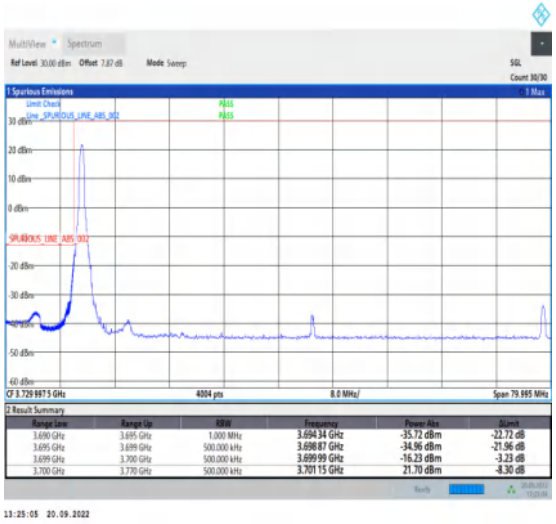

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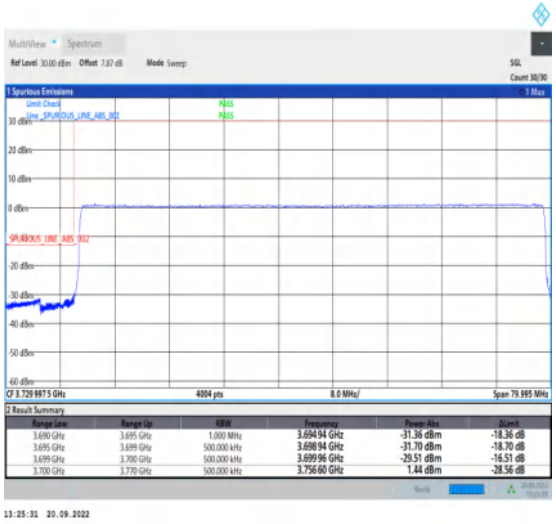

1-N78-3700-3800-30-70-L-6-CP-QPSK-Outer_Full-189@0-Ant1-1--PASS-see graph

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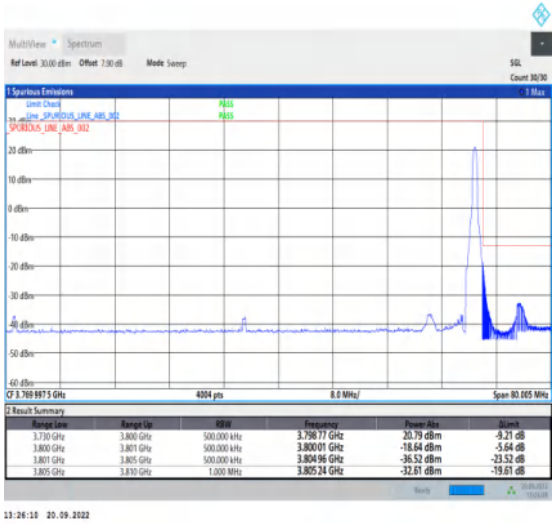

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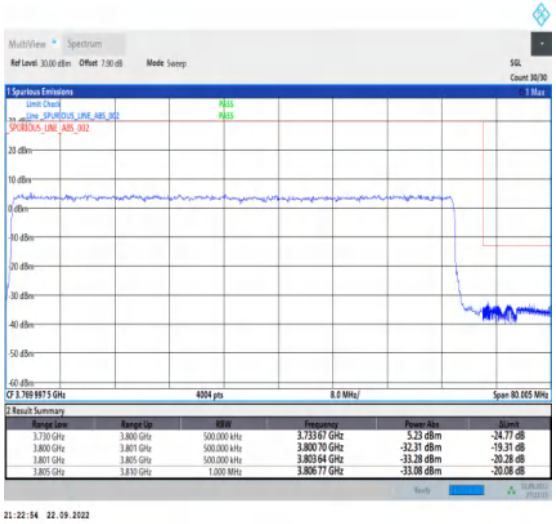

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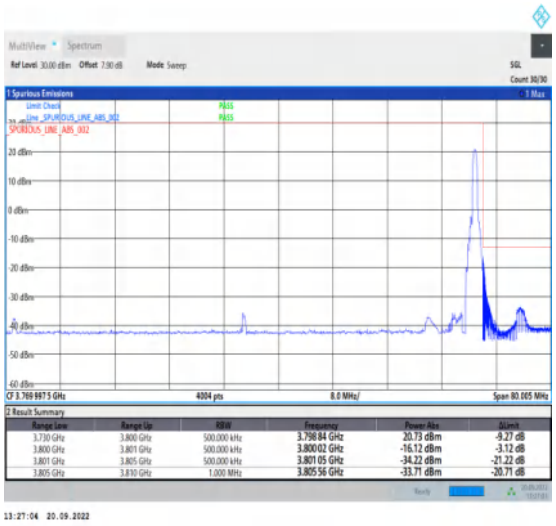

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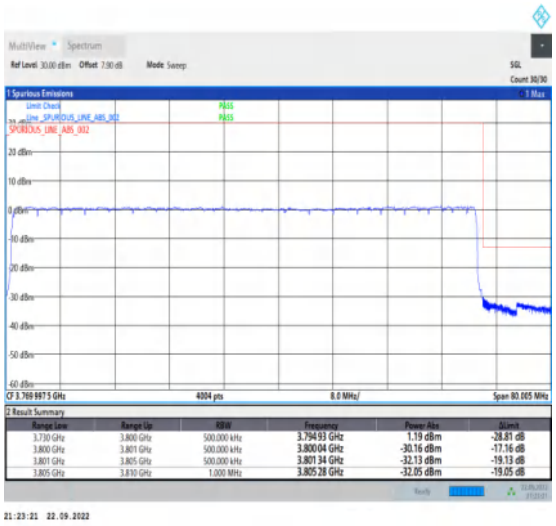

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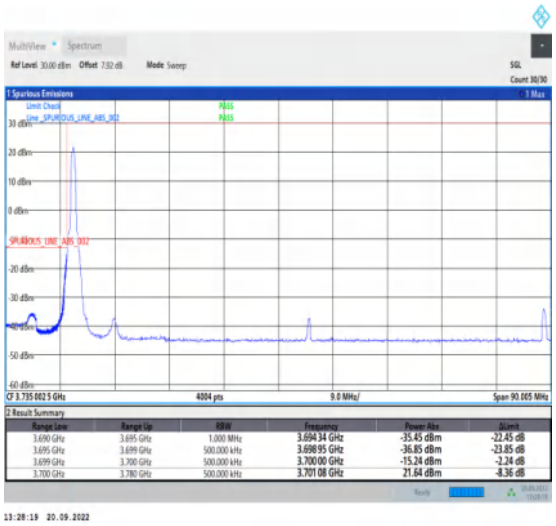

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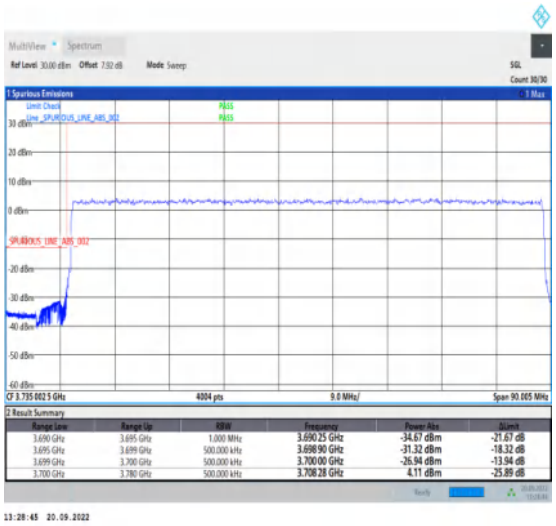

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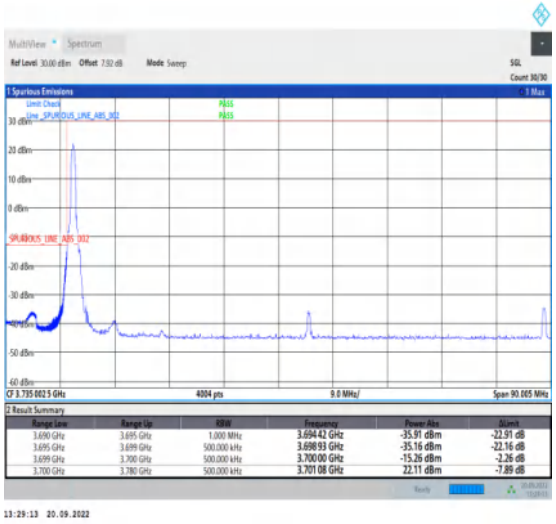

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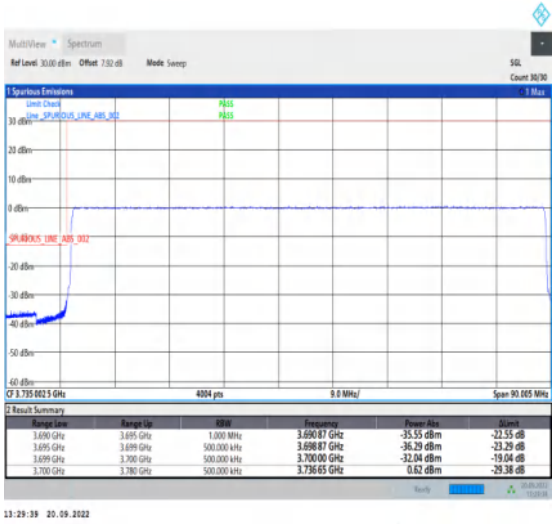

1-N78-3700-3800-30-80-L-6-CP-QPSK-Outer_Full-217@0-Ant1-1--PASS-see graph

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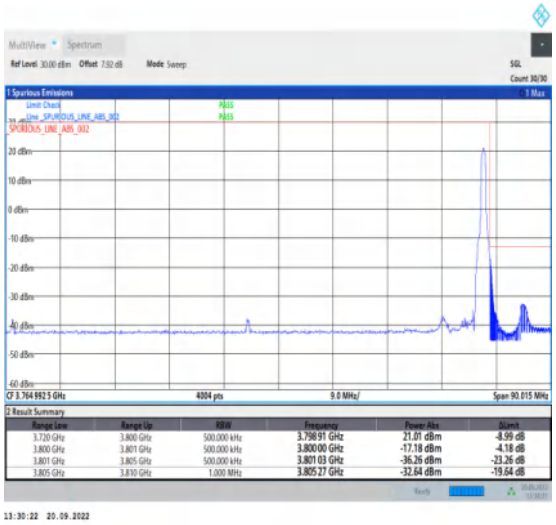

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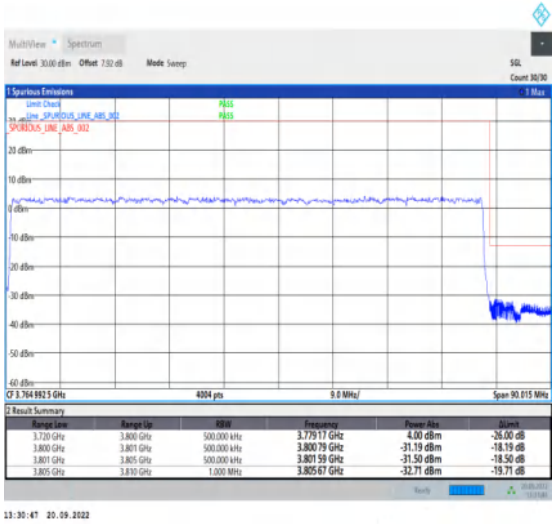

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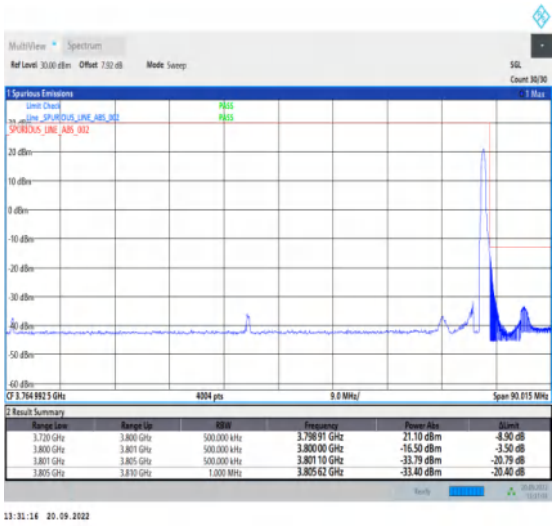

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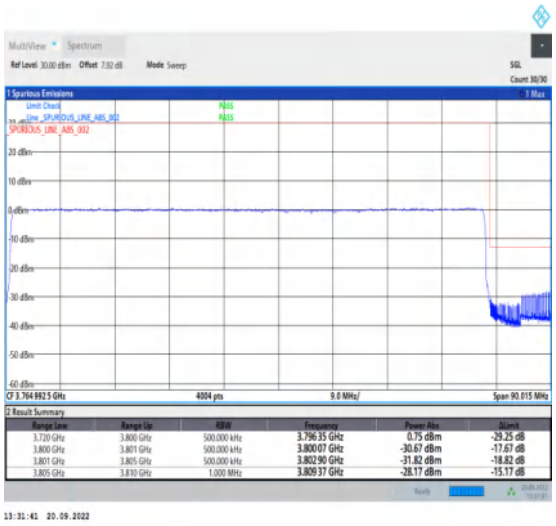

1-N78-3700-3800-30-80-H-6-CP-QPSK-Outer_Full-217@0-Ant1-1--PASS-see graph

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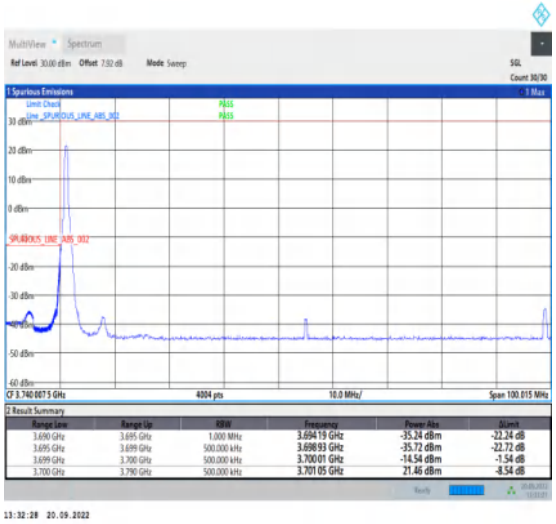

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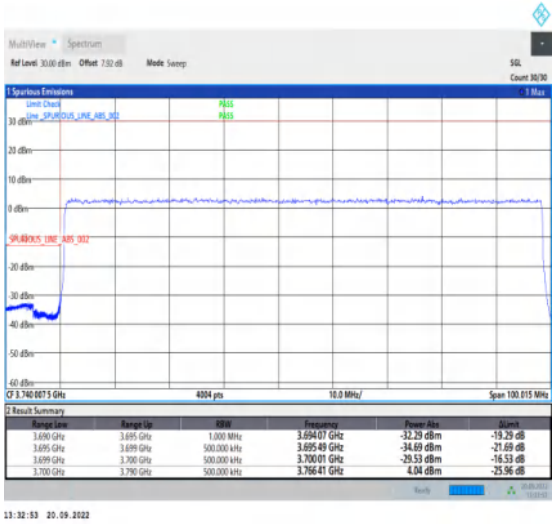

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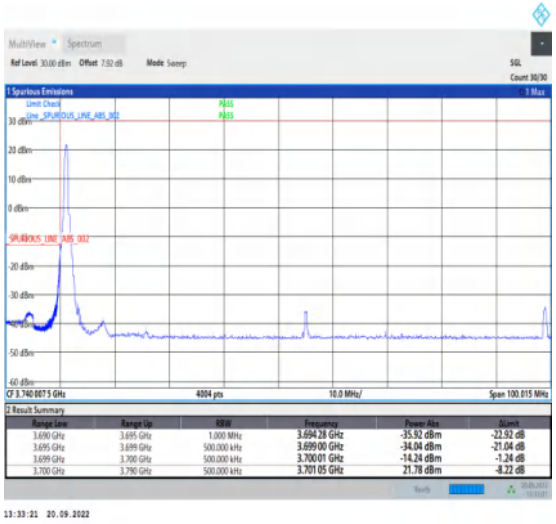

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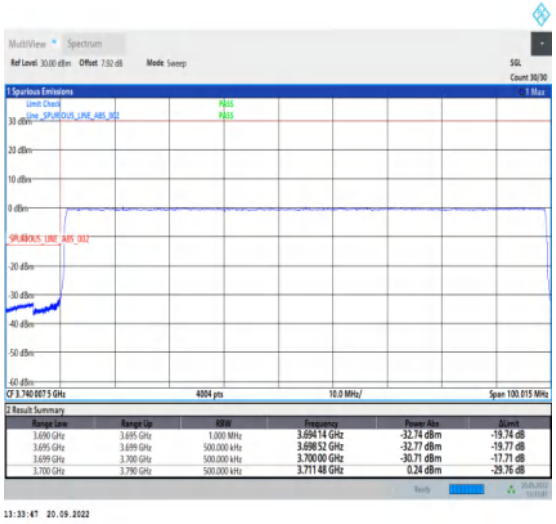

1-N78-3700-3800-30-90-L-6-CP-QPSK-Outer_Full-245@0-Ant1-1--PASS-see graph

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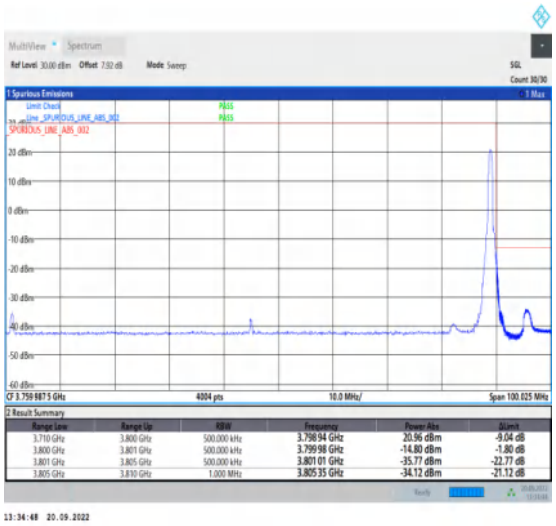

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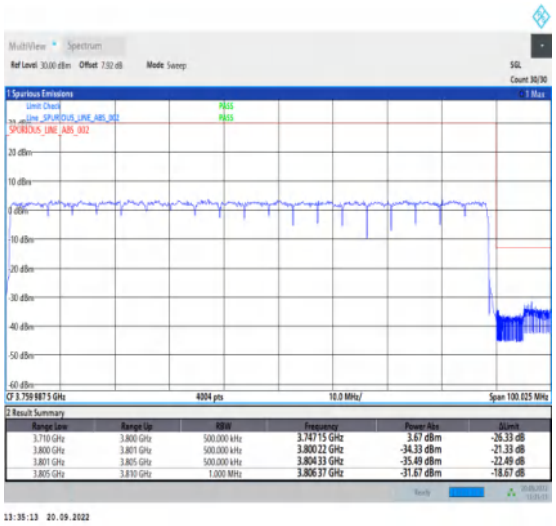

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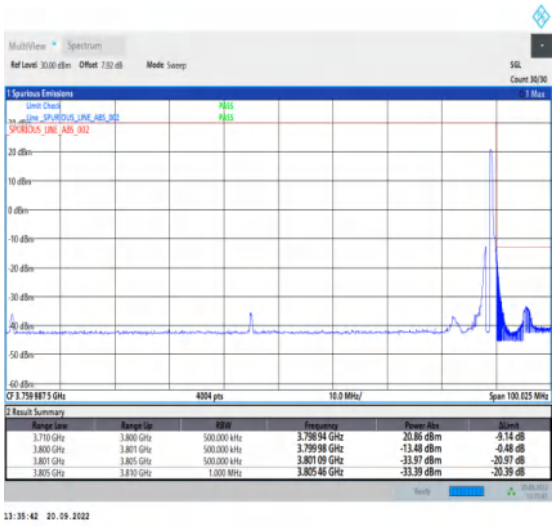

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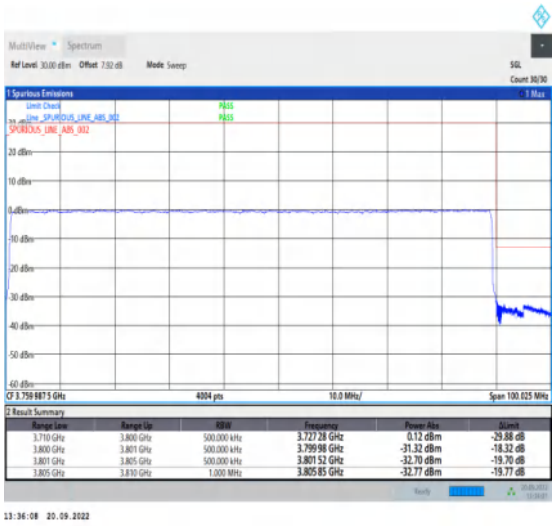

1-N78-3700-3800-30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant1-1--PASS-see graph

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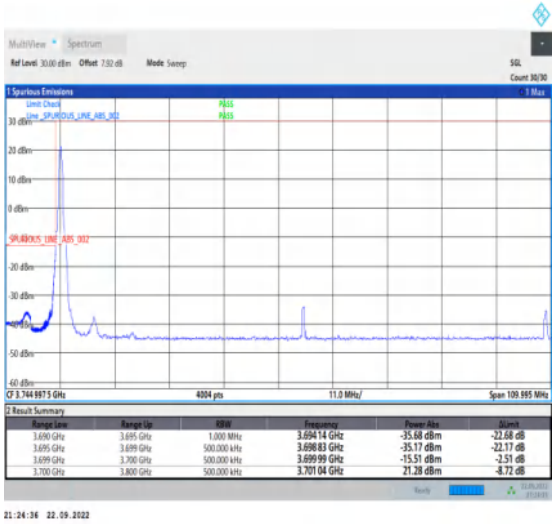

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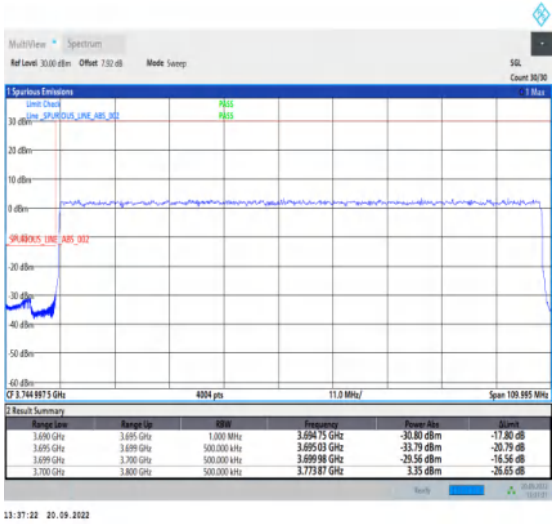

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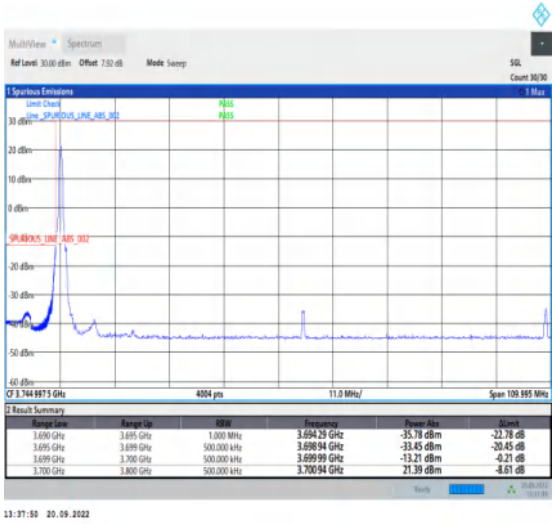

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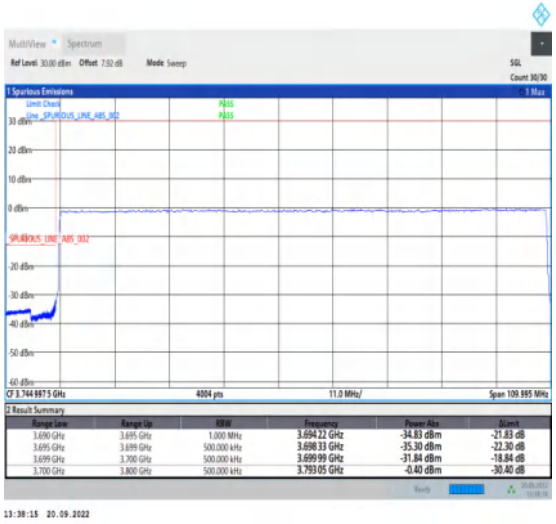

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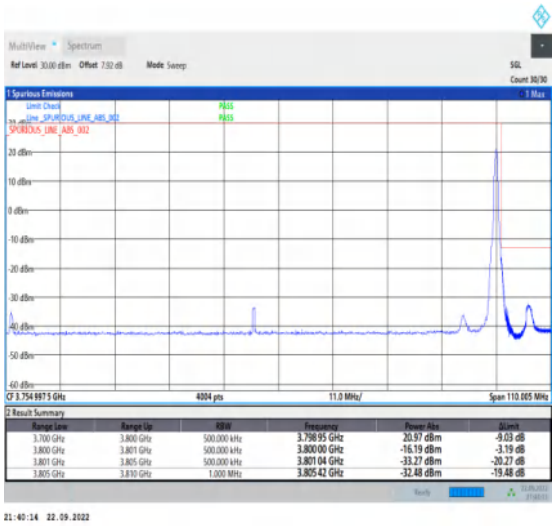

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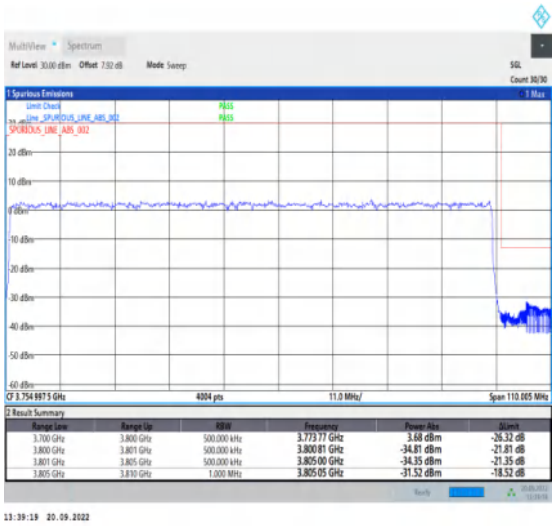

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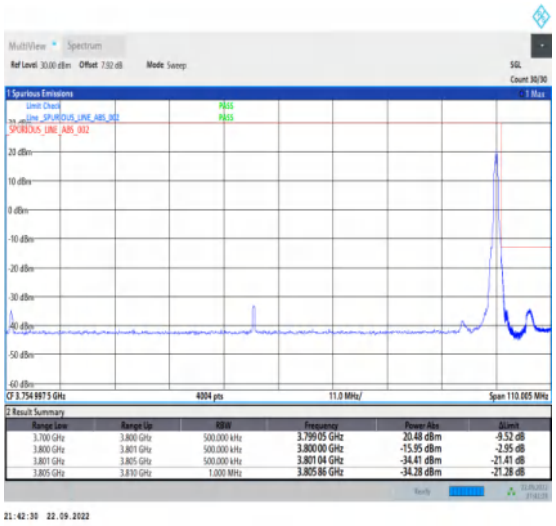

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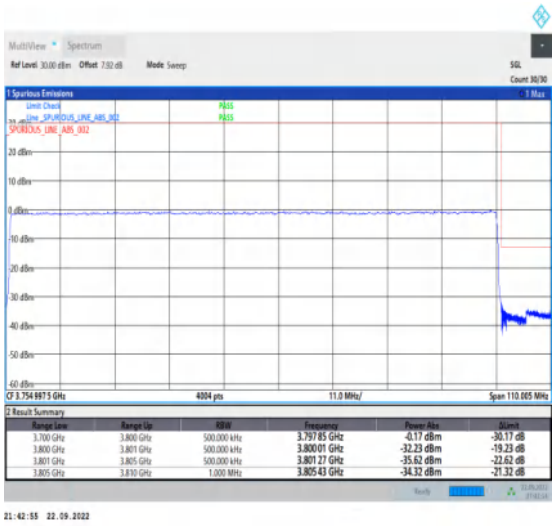

1-N78-3700-3800-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see graph

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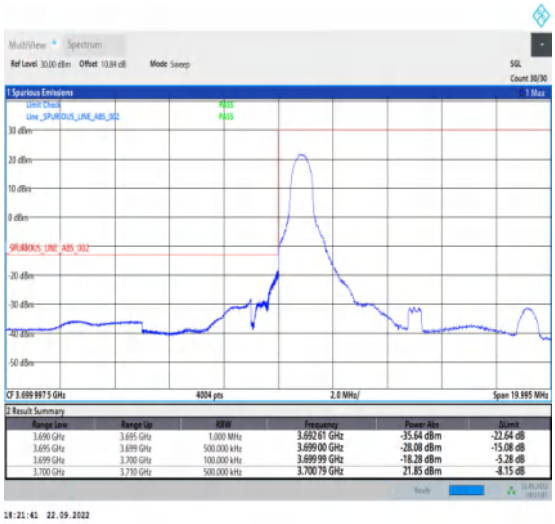

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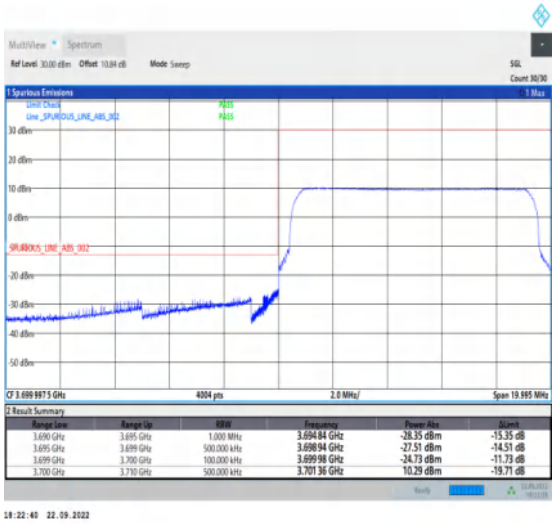

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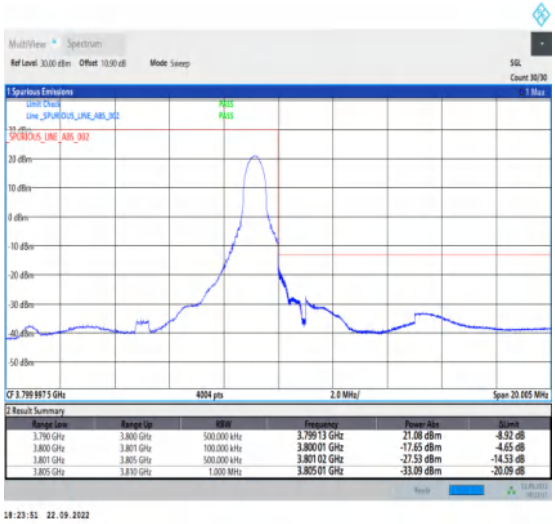

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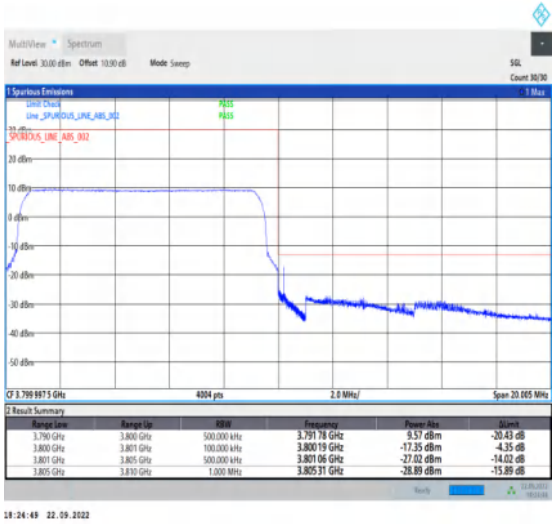

1-N78-3700-3800-PC2-30-10-H-6-CP-QPSK-Outer_Full-24@0-Ant1-1--PASS-see graph

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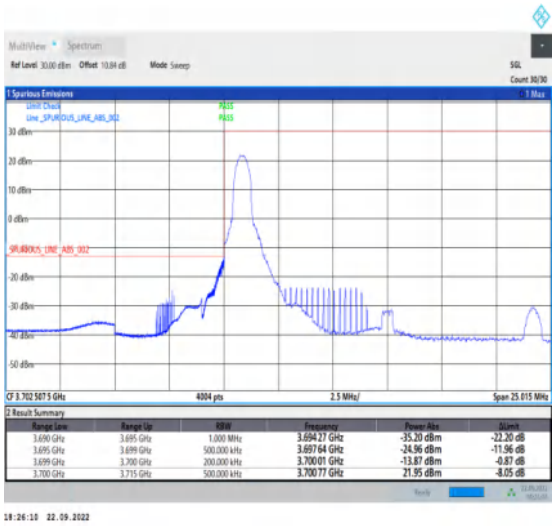

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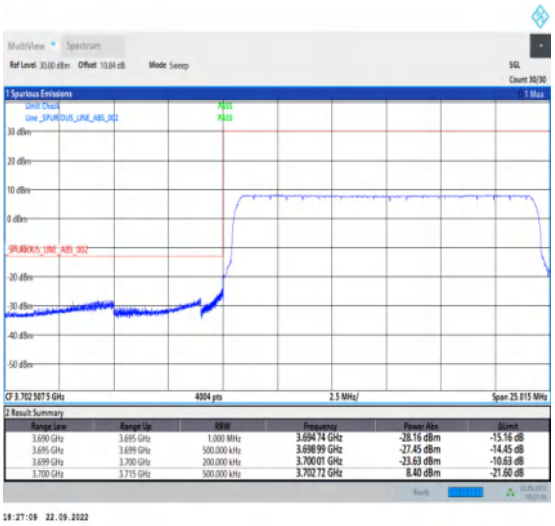

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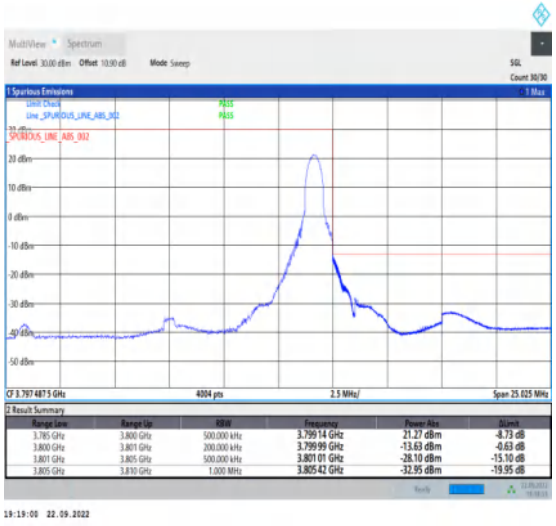

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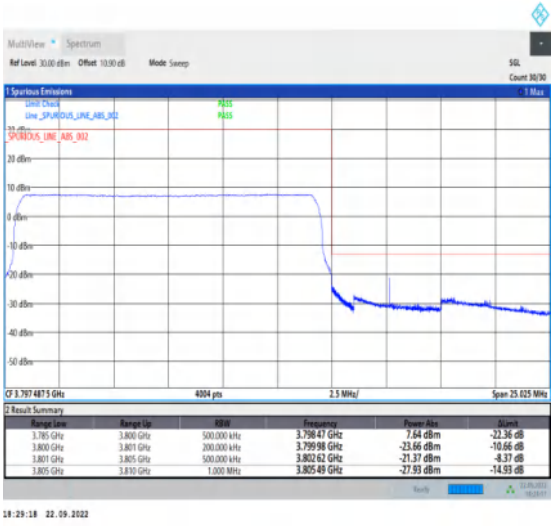

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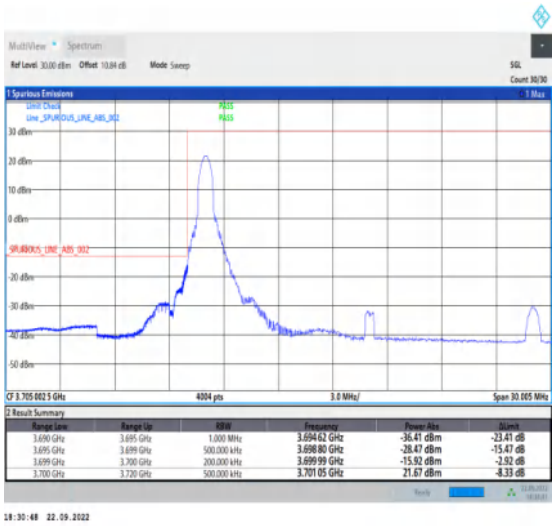

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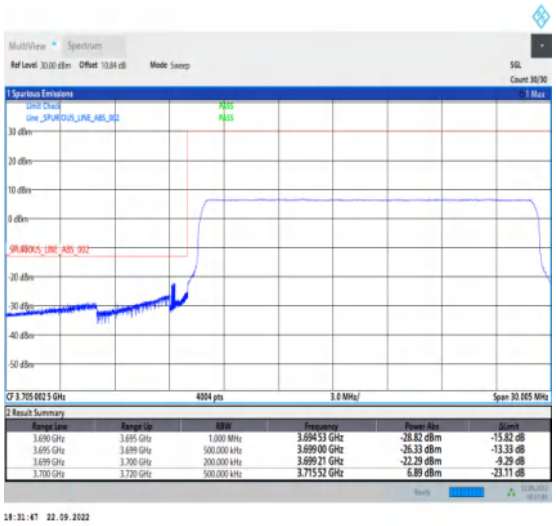

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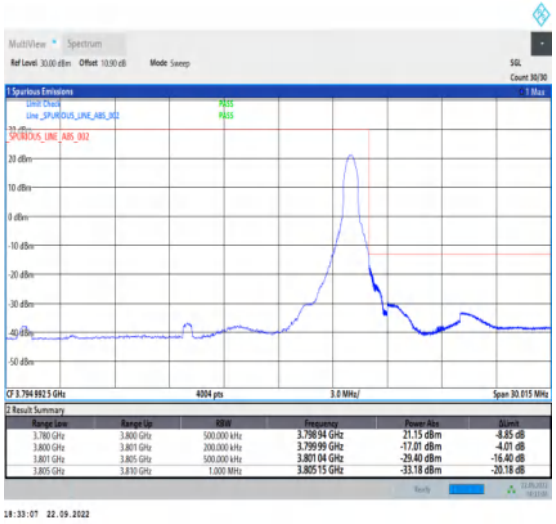

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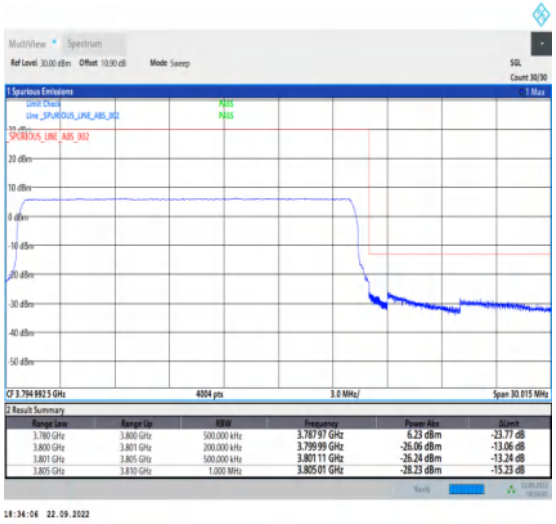

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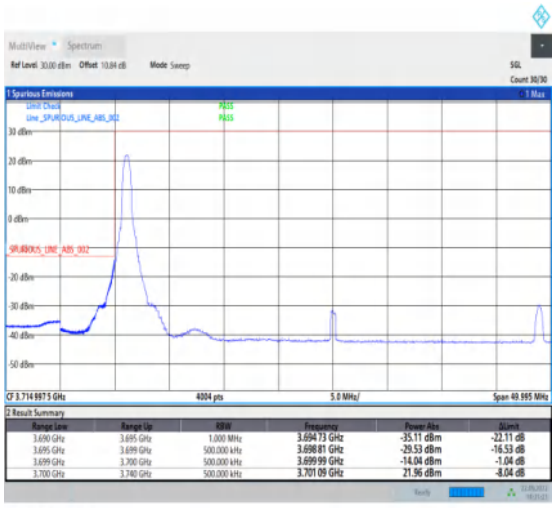

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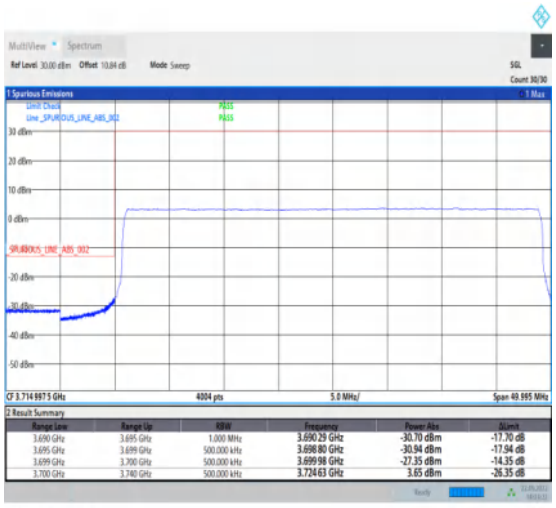

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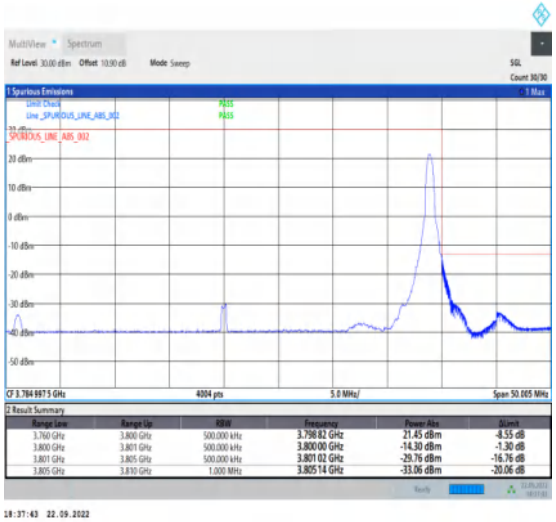

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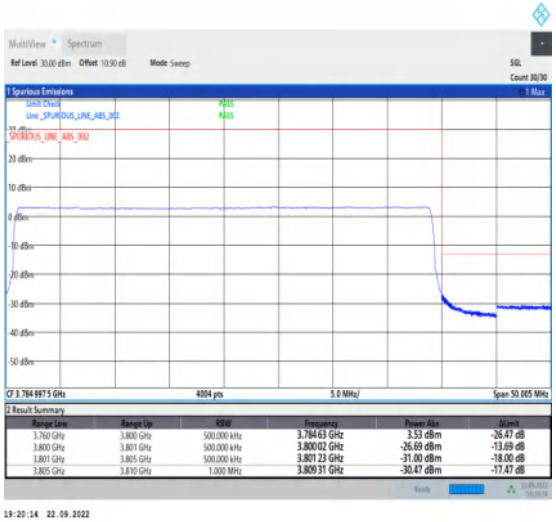

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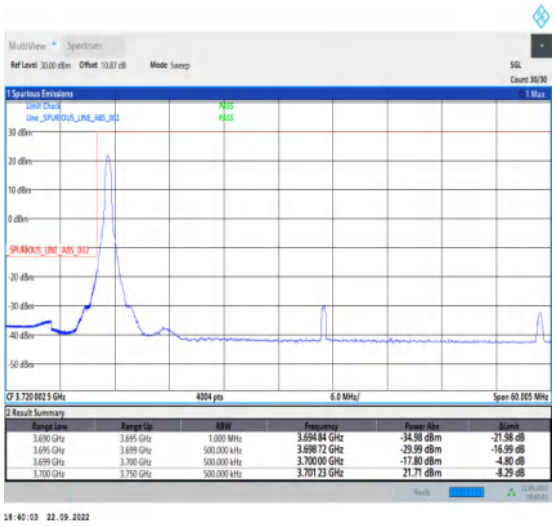

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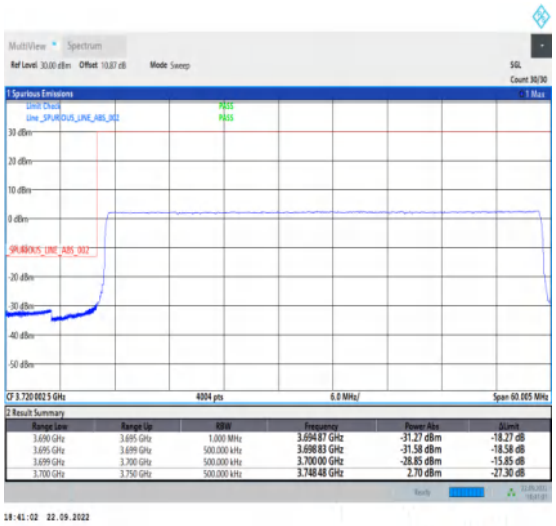

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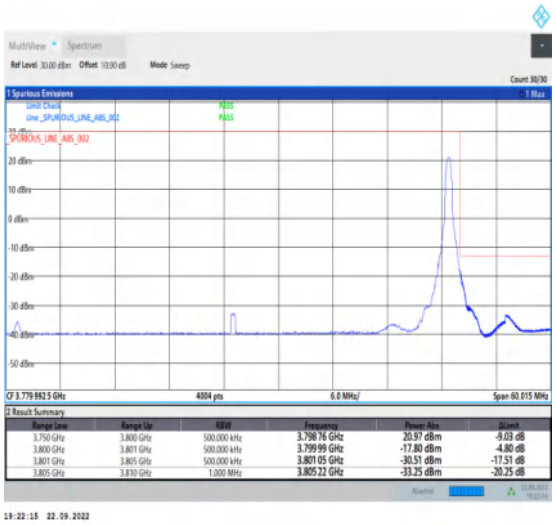

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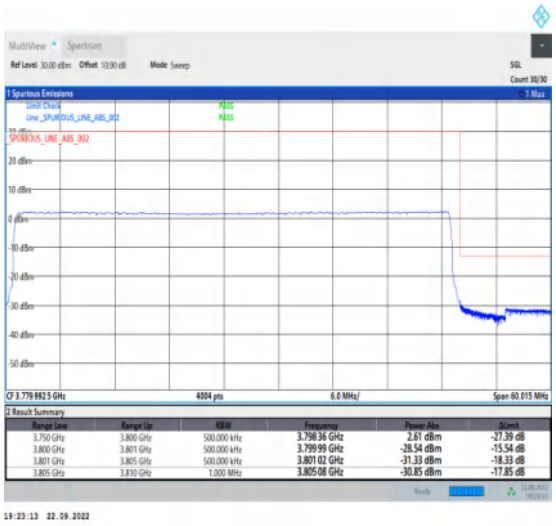

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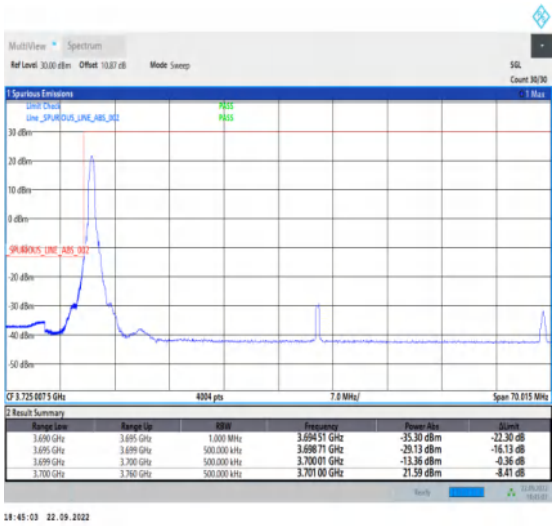

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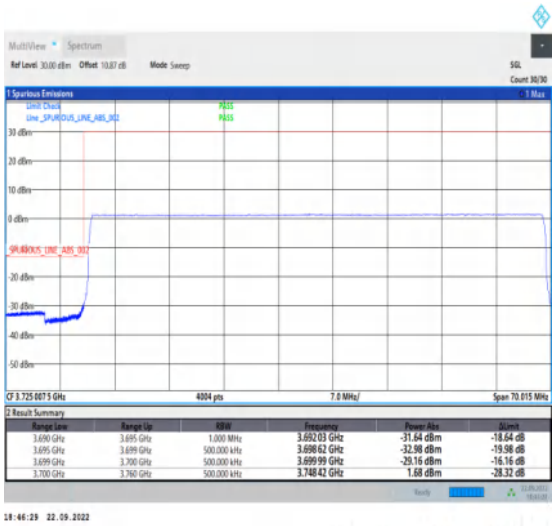

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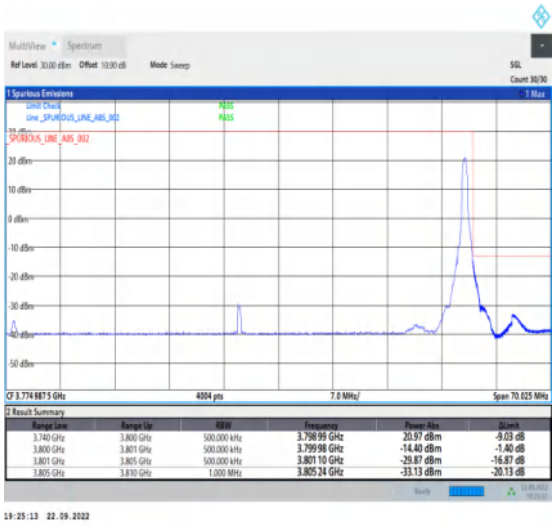

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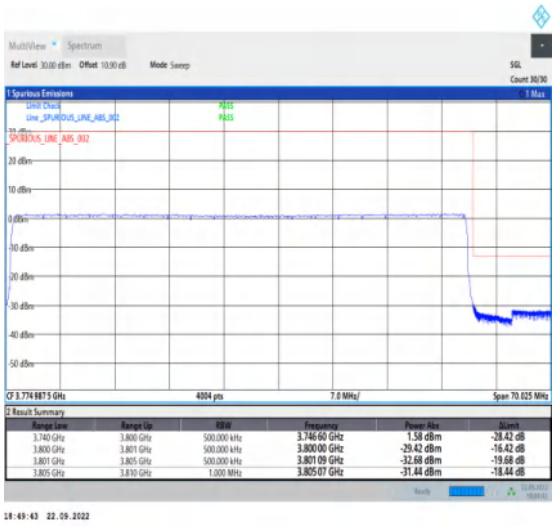

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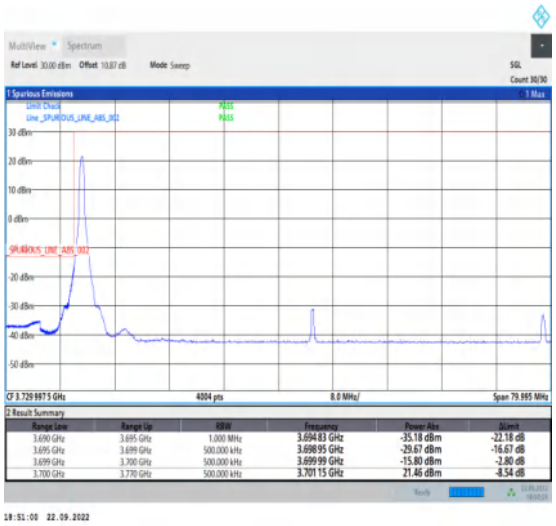

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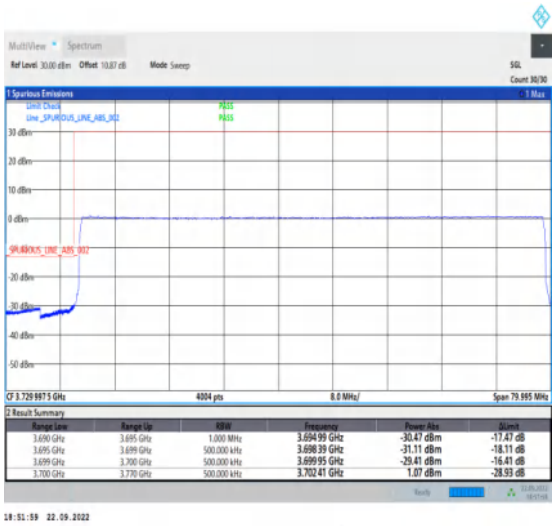

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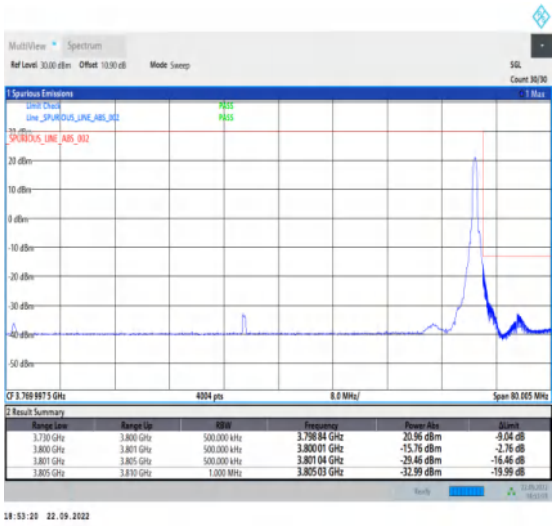

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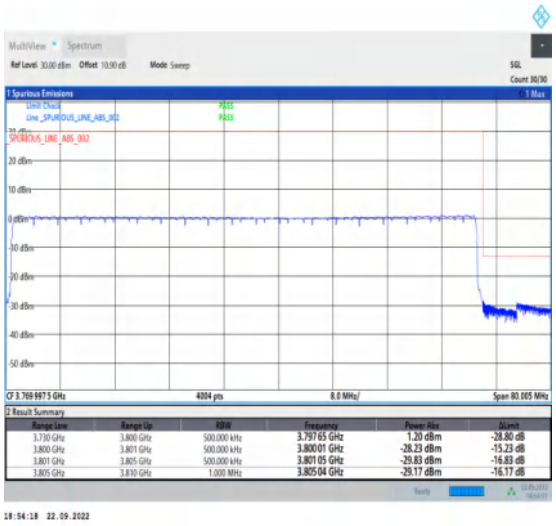

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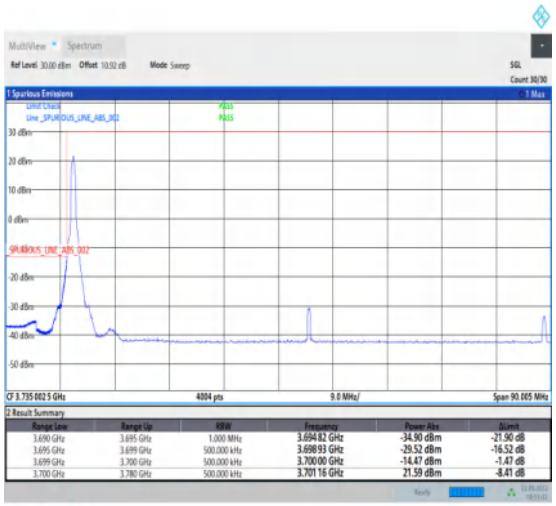

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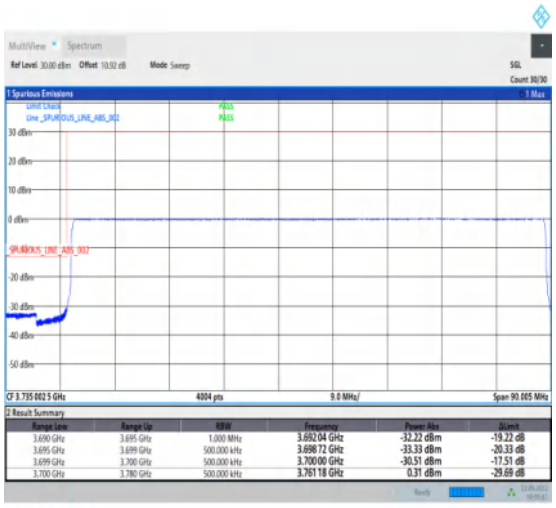

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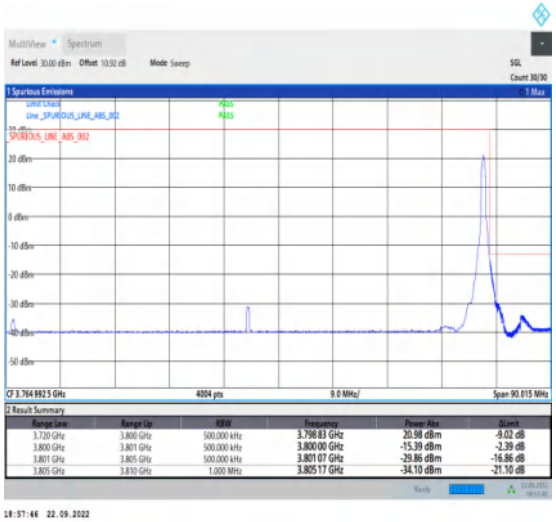

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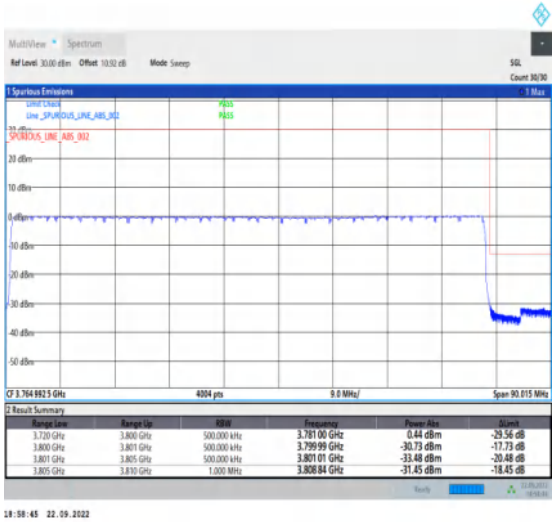

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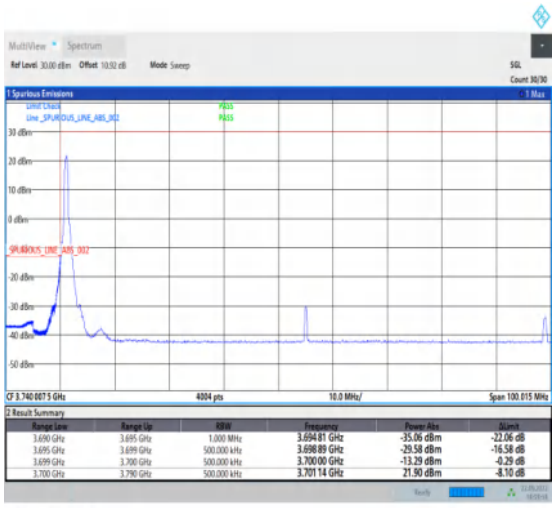

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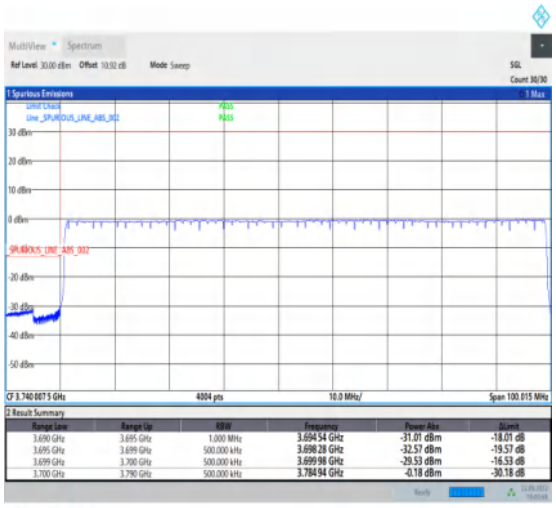

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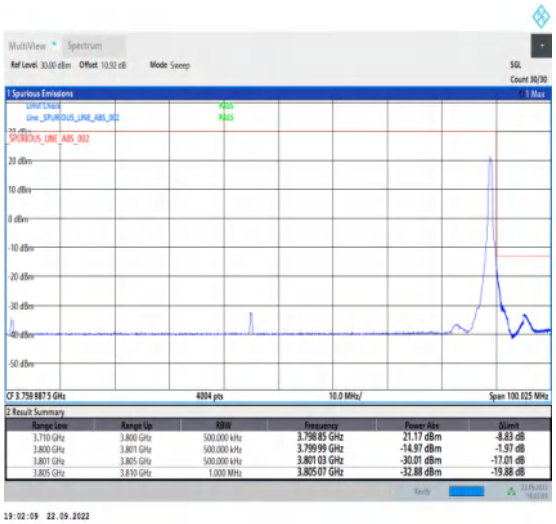

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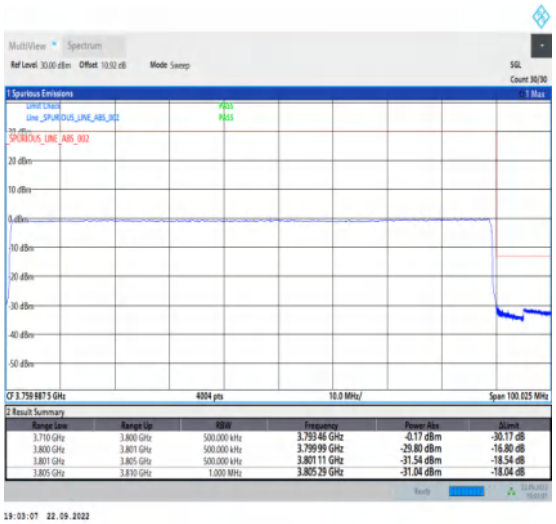

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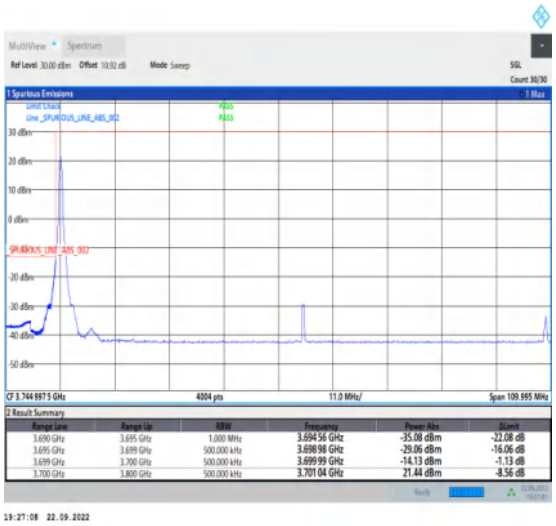

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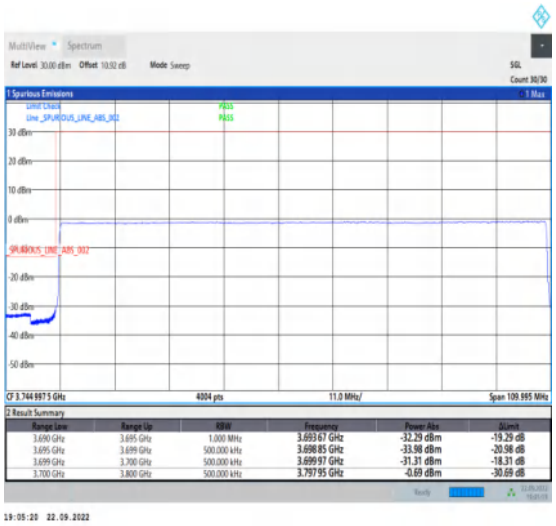

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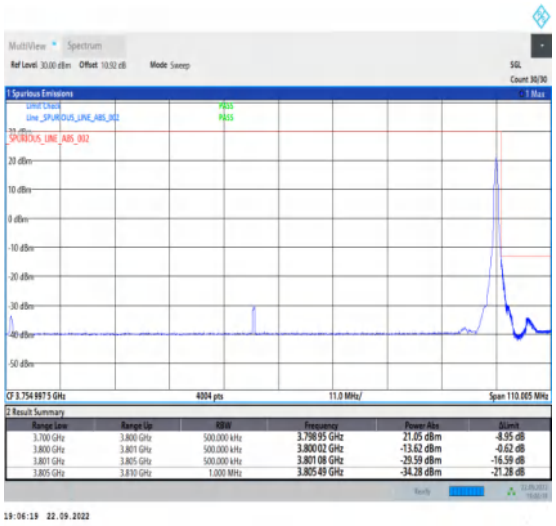

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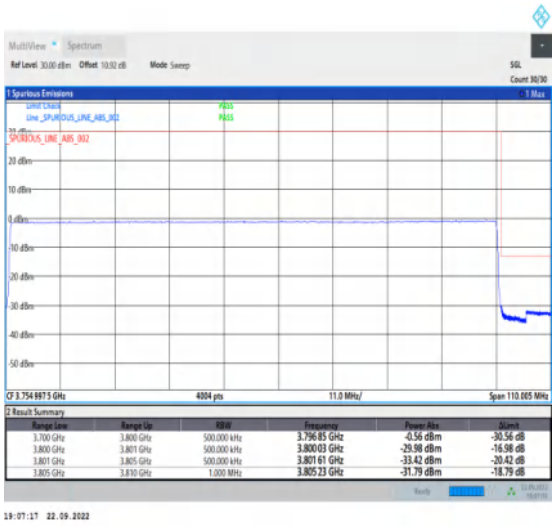

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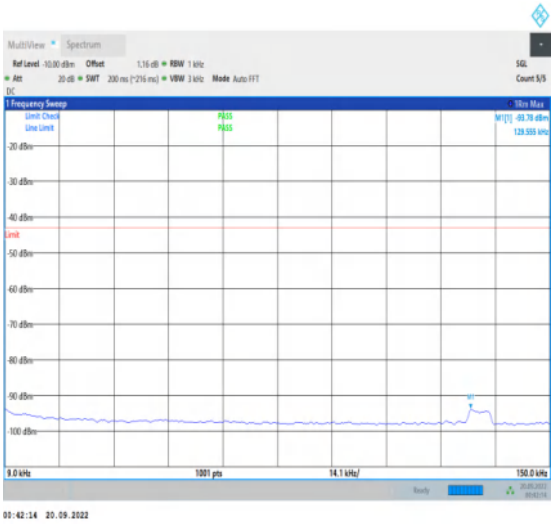	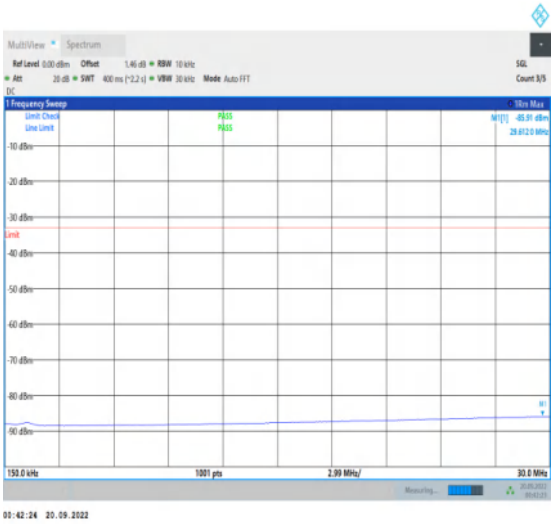
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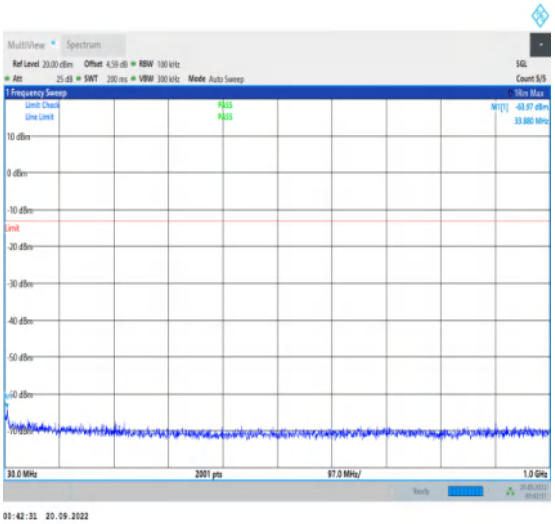	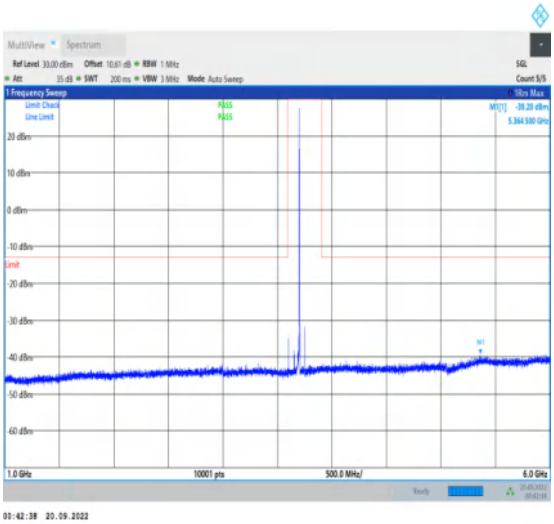
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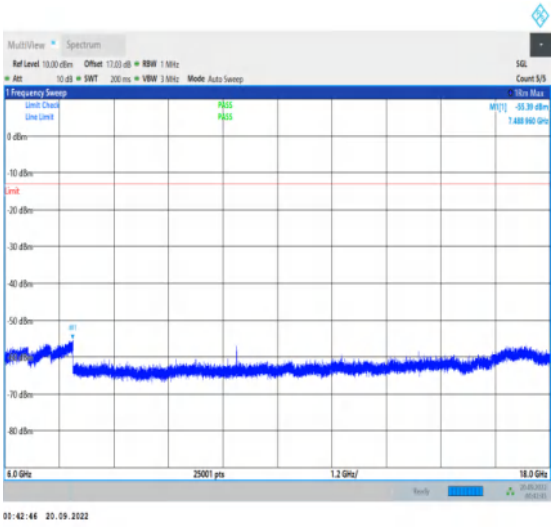

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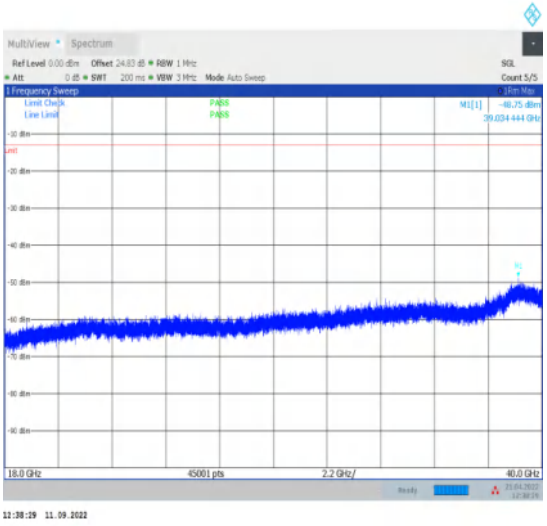

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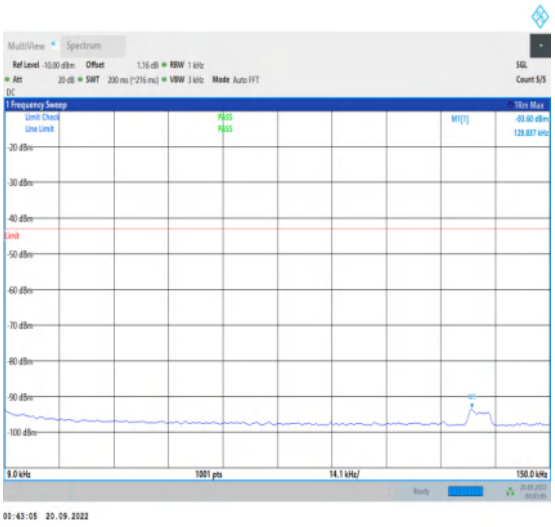

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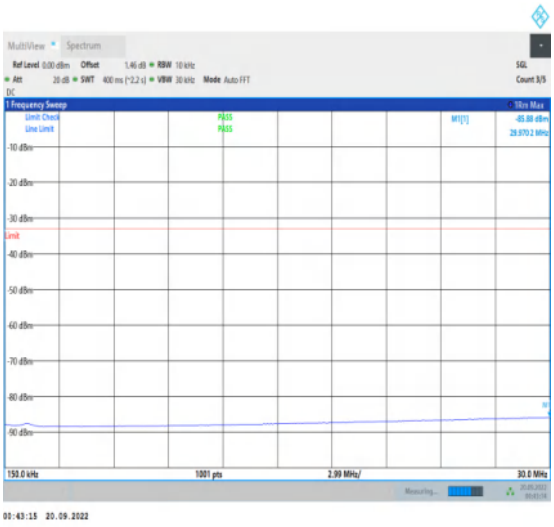

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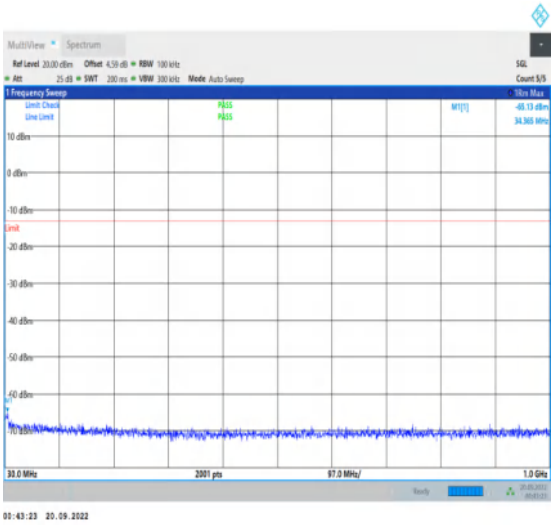	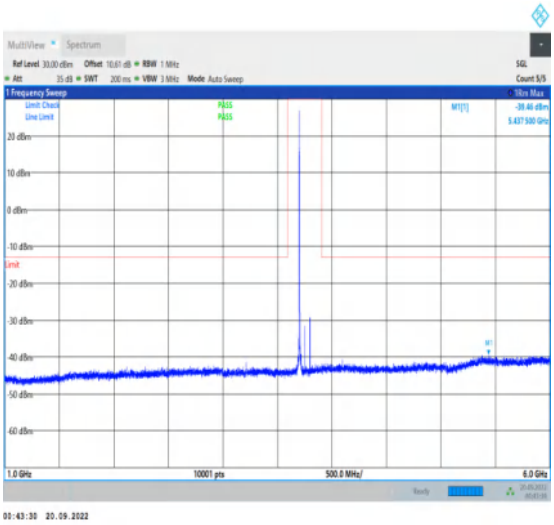
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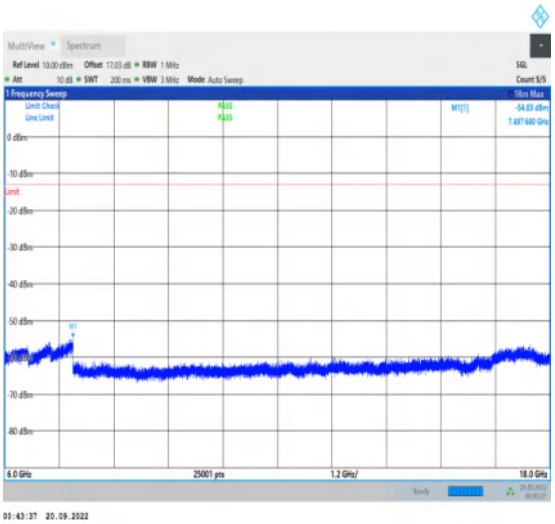	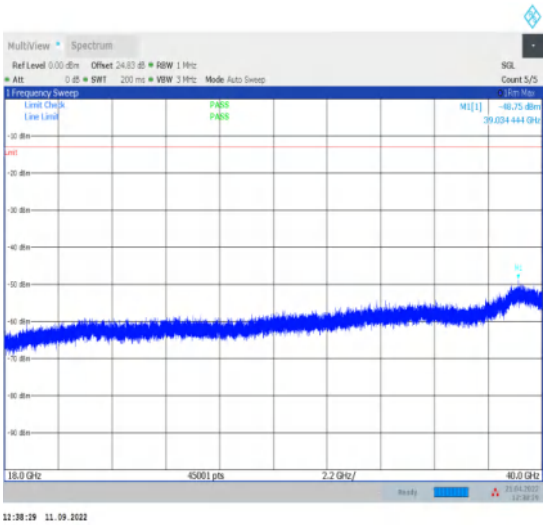
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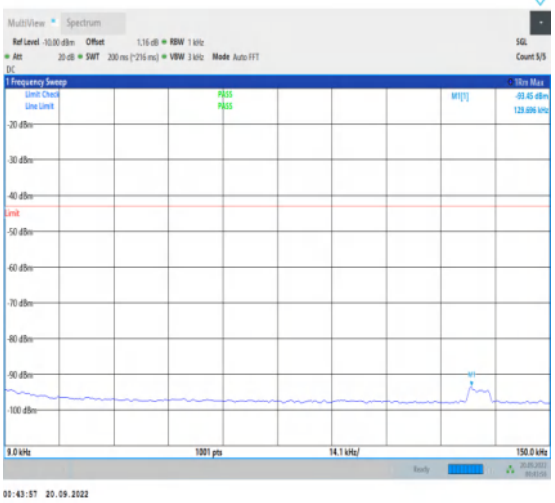

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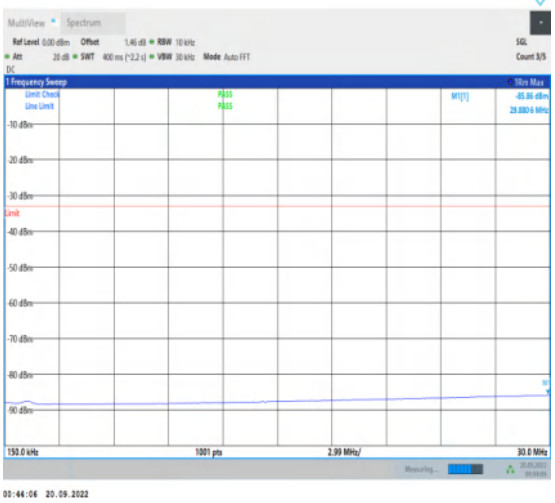

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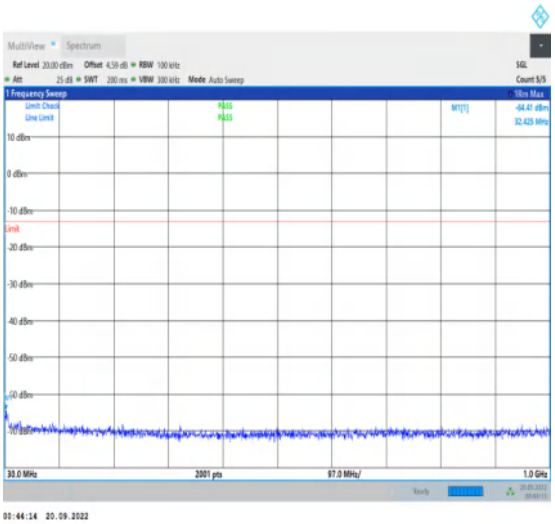

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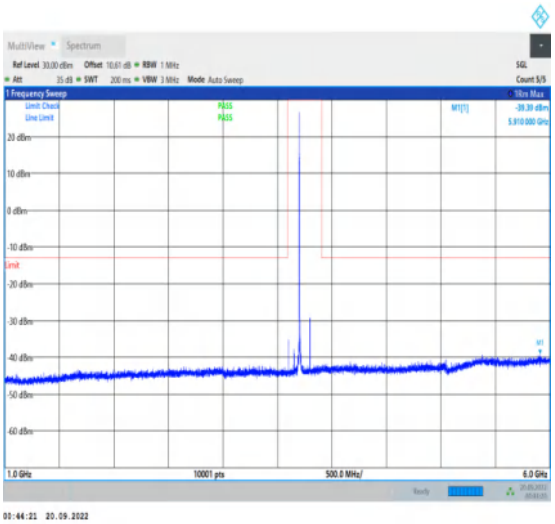

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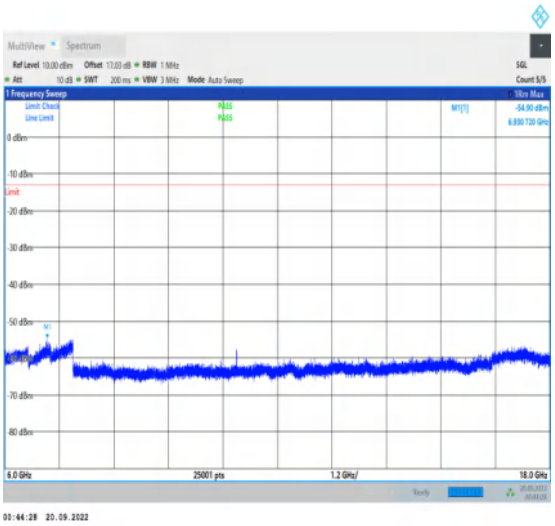	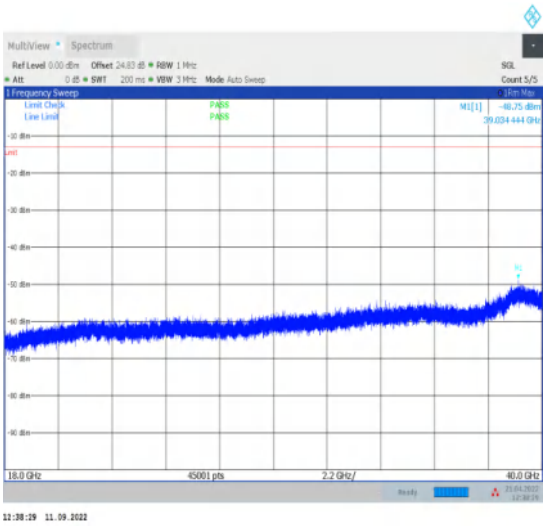
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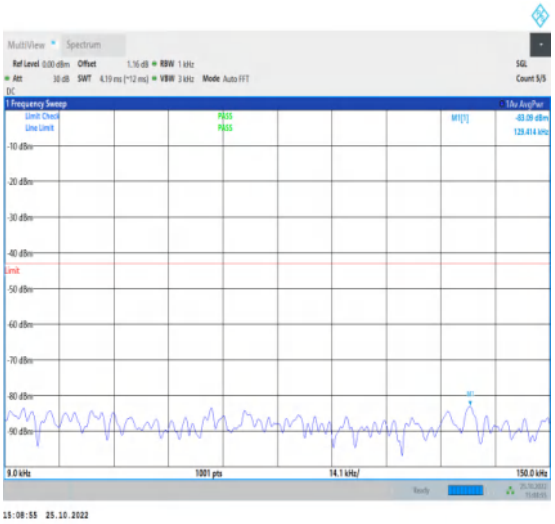
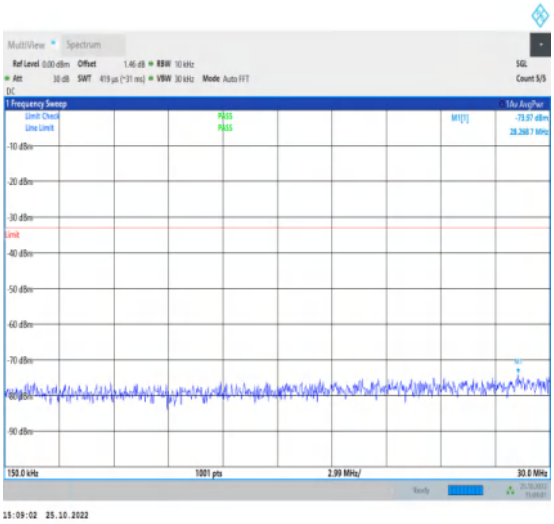
ULMIMO Test Graphs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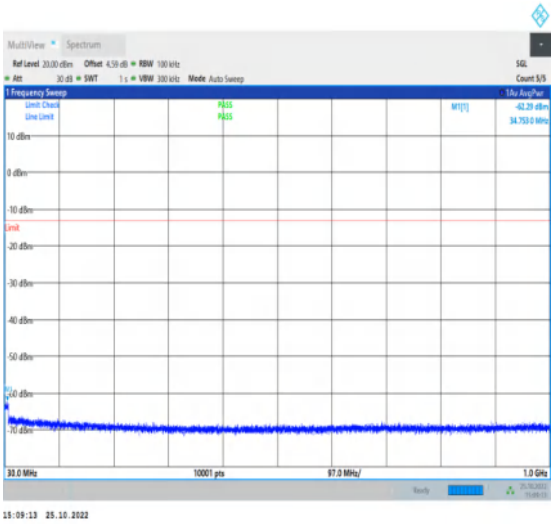	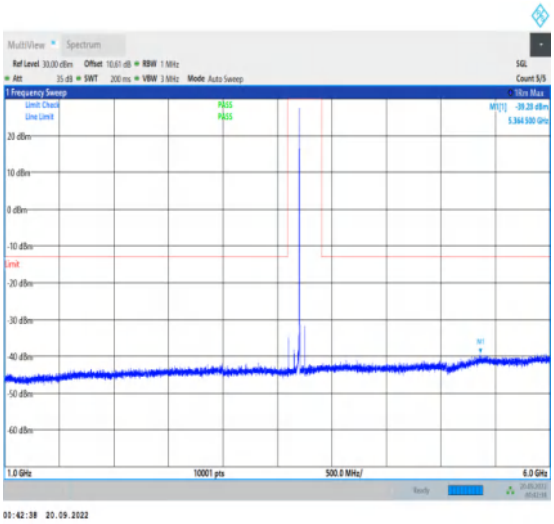
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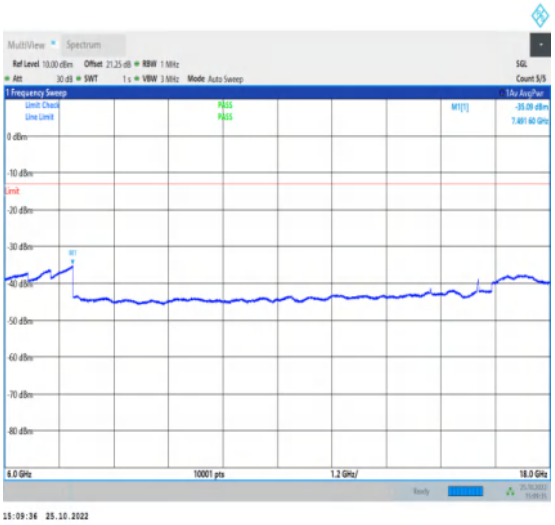

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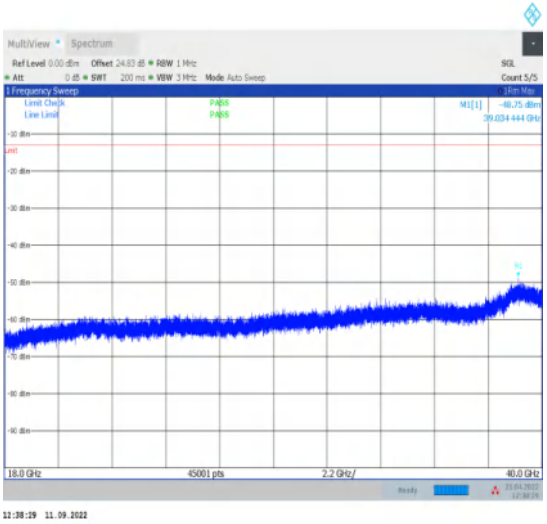

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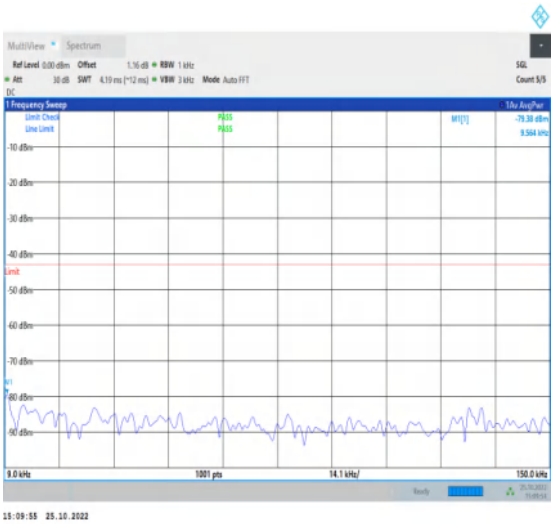

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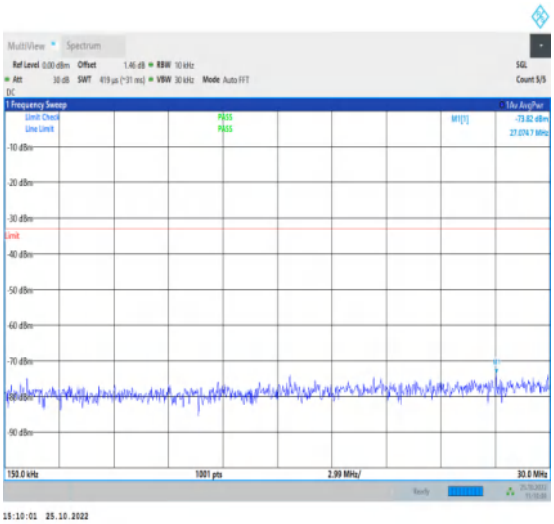

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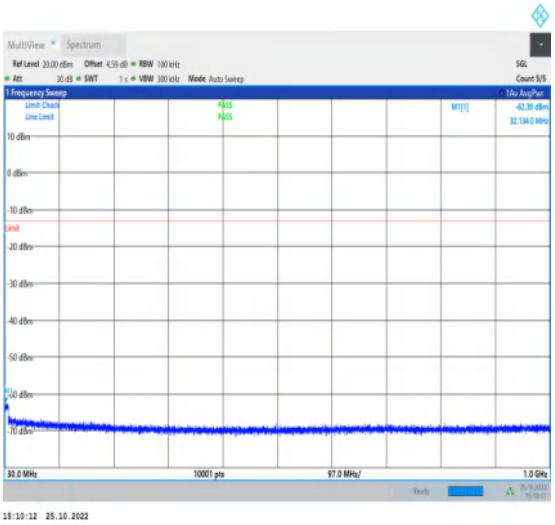

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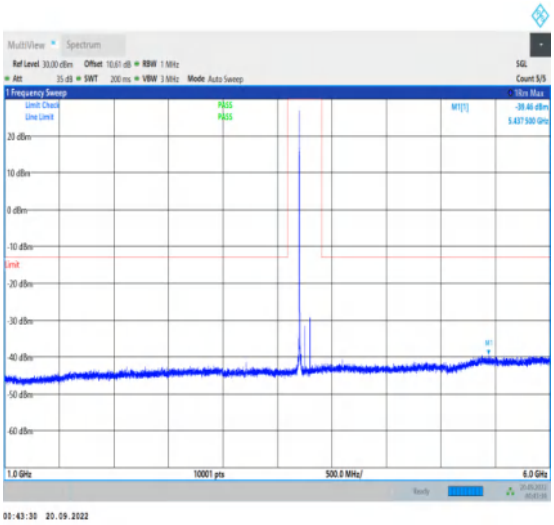

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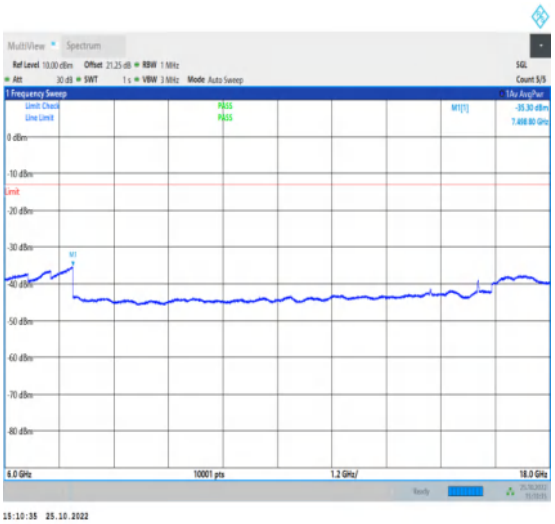

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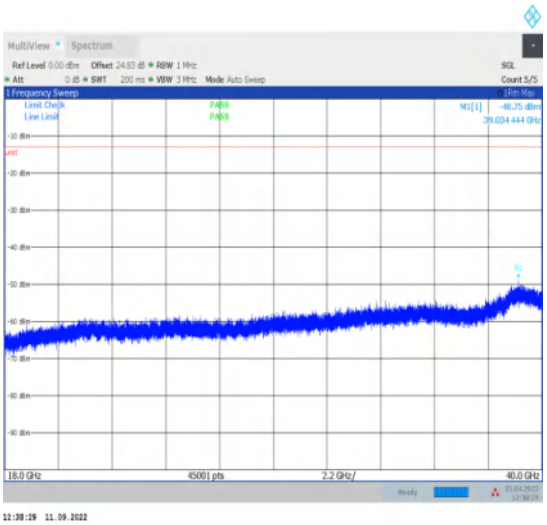

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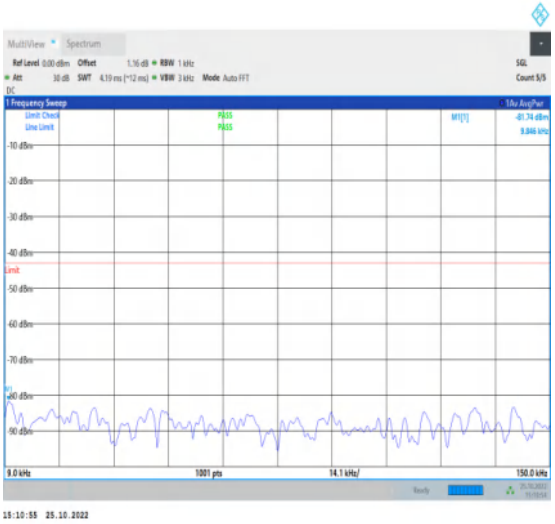

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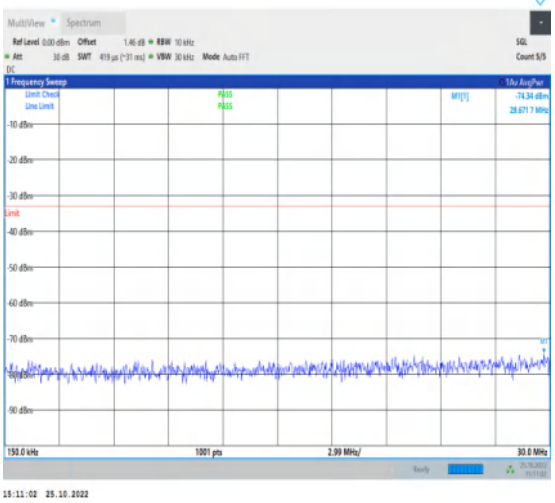

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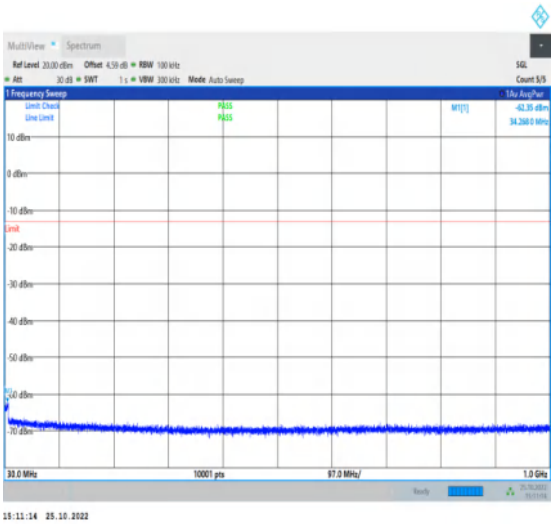

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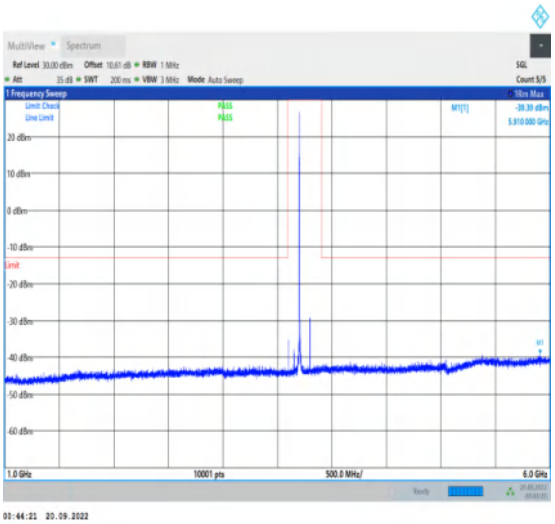

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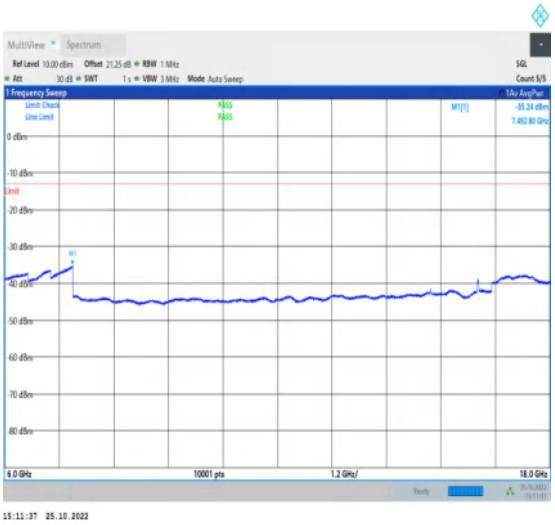	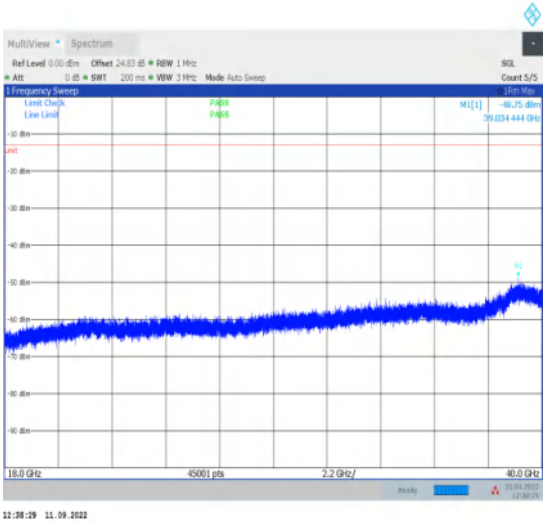
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Field Strength of Spurious Radiation

Test Band = 5G NR SA Band78_ TM1
Test Channel = Low 3700-3800 ANT6

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	44.60	-43.27	36.54	-57.39	-13.00	44.39	268	162	Horizontal
2	8418.775	43.98	-41.45	37.37	-55.36	-13.00	42.36	155	38	Horizontal
3	9480.8	41.12	-39.95	38.47	-55.62	-13.00	42.62	148	84	Horizontal
4	10965.2700	30.66	-37.67	39.10	-63.17	-13.00	50.17	176	0	Horizontal
5	12838.8	32.61	-36.72	39.67	-59.70	-13.00	46.70	129	147	Horizontal
6	14620.3600	28.50	-35.23	39.91	-62.08	-13.00	49.08	130	0	Horizontal

Test Band = 5G NR SA Band78_ TM1
Test Channel = Low 3700-3800 ANT6

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	44.45	-43.27	36.54	-57.54	-13.00	44.54	285	115	Vertical
2	8403.25	44.64	-41.38	37.34	-54.67	-13.00	41.67	147	115	Vertical
3	9425.025	40.03	-39.93	38.48	-56.68	-13.00	43.68	159	283	Vertical
4	10965.2700	29.06	-37.67	39.10	-64.77	-13.00	51.77	198	130	Vertical
5	12820.4	32.81	-36.67	39.65	-59.47	-13.00	46.47	166	0	Vertical
6	14620.3600	27.73	-35.23	39.91	-62.85	-13.00	49.85	133	267	Vertical

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Test Band = 5G NR SA Band78_ TM1
Test Channel = Mid 3700-3800 ANT6

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	44.52	-42.78	36.39	-57.13	-13.00	44.13	255	25	Horizontal
2	8408.425	44.16	-41.41	37.35	-55.16	-13.00	42.16	148	165	Horizontal
3	9427.9	40.83	-39.93	38.48	-55.88	-13.00	42.88	196	102	Horizontal
4	11835.2700	28.14	-37.25	38.79	-65.58	-13.00	52.58	126	225	Horizontal
5	13677.15	32.04	-36.00	40.08	-59.14	-13.00	46.14	174	71	Horizontal
6	15180.3600	30.62	-33.90	38.98	-59.56	-13.00	46.56	136	316	Horizontal

Test Band = 5G NR SA Band78_ TM1
Test Channel = Mid 3700-3800 ANT6

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	43.80	-42.78	36.39	-57.85	-13.00	44.85	296	342	Vertical
2	8432.575	44.16	-41.51	37.40	-55.21	-13.00	42.21	254	53	Vertical
3	9444	40.41	-39.94	38.48	-56.31	-13.00	43.31	148	36	Vertical
4	11835.2700	29.86	-37.25	38.79	-63.86	-13.00	50.86	175	252	Vertical
5	13838.15	31.85	-35.99	39.99	-59.41	-13.00	46.41	122	329	Vertical
6	15180.3600	29.87	-33.90	38.98	-60.31	-13.00	47.31	126	267	Vertical

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Test Band = 5G NR SA Band78_ TM1
Test Channel = High 3700-3800 ANT6

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	41.67	-42.69	36.86	-59.42	-13.00	46.42	255	148	Horizontal
2	8407.275	45.12	-41.40	37.35	-54.20	-13.00	41.20	148	194	Horizontal
3	9482.525	39.94	-39.95	38.47	-56.80	-13.00	43.80	159	209	Horizontal
4	10677.95	34.45	-37.60	39.12	-59.29	-13.00	46.29	168	58	Horizontal
5	11805.2700	29.28	-37.21	38.76	-64.43	-13.00	51.43	138	72	Horizontal
6	15740.3600	29.73	-33.18	38.27	-60.44	-13.00	47.44	170	148	Horizontal

Test Band = 5G NR SA Band78_ TM1
Test Channel = High 3700-3800 ANT6

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	42.41	-42.69	36.86	-58.68	-13.00	45.68	256	356	Vertical
2	8415.9	44.64	-41.44	37.36	-54.69	-13.00	41.69	298	255	Vertical
3	9443.425	40.42	-39.94	38.48	-56.30	-13.00	43.30	145	331	Vertical
4	11805.2700	29.96	-37.21	38.76	-63.75	-13.00	50.75	216	13	Vertical
5	13824.35	32.32	-36.08	39.98	-59.04	-13.00	46.04	122	115	Vertical
6	15740.3600	28.85	-33.18	38.27	-61.32	-13.00	48.32	230	180	Vertical

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Test Band = 5G NR SA Band78_ TM1
Test Channel = Low 3700-3800 ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	45.33	-43.27	36.54	-56.66	-13.00	43.66	166	207	Horizontal
2	8434.875	46.43	-41.52	37.40	-52.95	-13.00	39.95	194	0	Horizontal
3	9561.3	42.87	-39.49	38.45	-53.43	-13.00	40.43	175	190	Horizontal
4	10965.2700	34.01	-37.67	39.10	-59.82	-13.00	46.82	142	346	Horizontal
5	12789.925	35.65	-36.64	39.61	-56.64	-13.00	43.64	180	0	Horizontal
6	14620.3600	30.49	-35.23	39.91	-60.09	-13.00	47.09	102	221	Horizontal

Test Band = 5G NR SA Band78_ TM1
Test Channel = Low 3700-3800 ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	45.30	-43.27	36.54	-56.69	-13.00	43.69	165	99	Vertical
2	8414.75	46.52	-41.43	37.36	-52.81	-13.00	39.81	185	206	Vertical
3	10965.2700	33.06	-37.67	39.10	-60.77	-13.00	47.77	147	54	Vertical
4	12865.825	35.17	-36.78	39.70	-57.18	-13.00	44.18	196	285	Vertical
5	14620.3600	30.29	-35.23	39.91	-60.29	-13.00	47.29	222	85	Vertical
6	16566.525	36.24	-34.44	38.06	-55.40	-13.00	42.40	136	285	Vertical

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Test Band = 5G NR SA Band78_ TM1
Test Channel = Mid 3700-3800 ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.1800	45.02	-42.83	36.48	-56.58	-13.00	43.58	155	346	Horizontal
2	8402.1	46.58	-41.38	37.33	-52.72	-13.00	39.72	145	118	Horizontal
3	9561.3	42.50	-39.49	38.45	-53.80	-13.00	40.80	165	0	Horizontal
4	11115.2700	32.15	-37.57	39.09	-61.59	-13.00	48.59	125	285	Horizontal
5	12797.975	34.96	-36.62	39.63	-57.30	-13.00	44.30	143	26	Horizontal
6	14820.3600	30.96	-35.03	39.61	-59.71	-13.00	46.71	211	178	Horizontal

Test Band = 5G NR SA Band78_ TM1
Test Channel = Mid 3700-3800 ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.1800	46.50	-42.83	36.48	-55.10	-13.00	42.10	296	356	Vertical
2	8409.575	46.46	-41.41	37.35	-52.86	-13.00	39.86	285	299	Vertical
3	11115.2700	32.84	-37.57	39.09	-60.90	-13.00	47.90	174	346	Vertical
4	12808.9	36.09	-36.64	39.64	-56.17	-13.00	43.17	148	1	Vertical
5	14820.3600	29.73	-35.03	39.61	-60.94	-13.00	47.94	194	238	Vertical
6	16376.775	36.40	-34.76	37.71	-55.91	-13.00	42.91	122	330	Vertical

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Test Band = 5G NR SA Band78_ TM1
Test Channel = High 3700-3800 ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.1800	46.90	-43.13	36.43	-55.05	-13.00	42.05	126	357	Horizontal
2	8433.725	46.15	-41.52	37.40	-53.22	-13.00	40.22	251	41	Horizontal
3	11265.2700	35.19	-37.01	39.11	-57.97	-13.00	44.97	145	163	Horizontal
4	12841.675	34.93	-36.72	39.67	-57.38	-13.00	44.38	196	317	Horizontal
5	15020.3600	30.20	-34.43	39.19	-60.30	-13.00	47.30	122	208	Horizontal
6	17192.125	35.87	-34.70	38.61	-55.48	-13.00	42.48	231	347	Horizontal

Test Band = 5G NR SA Band78_ TM1
Test Channel = High 3700-3800 ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.1800	46.12	-43.13	36.43	-55.83	-13.00	42.83	211	13	Vertical
2	8417.625	46.41	-41.45	37.37	-52.93	-13.00	39.93	168	160	Vertical
3	11265.2700	34.90	-37.01	39.11	-58.26	-13.00	45.26	145	194	Vertical
4	12864.675	34.90	-36.78	39.69	-57.45	-13.00	44.45	189	86	Vertical
5	15020.3600	29.21	-34.43	39.19	-61.29	-13.00	48.29	195	55	Vertical
6	17246.75	37.20	-35.01	38.67	-54.41	-13.00	41.41	142	314	Vertical

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Test Band = UL MIMO N78_ TM1
Test Channel = Low 3700-3800

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	43.12	-43.27	36.54	-58.87	-13.00	45.87	254	356	Horizontal
2	8424.525	44.17	-41.48	37.38	-55.18	-13.00	42.18	169	162	Horizontal
3	9506.1	40.84	-39.91	38.46	-55.87	-13.00	42.87	152	176	Horizontal
4	10965.2700	29.68	-37.67	39.10	-64.15	-13.00	51.15	186	207	Horizontal
5	12768.075	33.30	-36.69	39.57	-59.07	-13.00	46.07	133	176	Horizontal
6	14620.3600	28.15	-35.23	39.91	-62.43	-13.00	49.43	261	176	Horizontal

Test Band = UL MIMO N78_ TM1
Test Channel = Low 3700-3800

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	43.67	-43.27	36.54	-58.32	-13.00	45.32	255	356	Vertical
2	8416.475	44.49	-41.44	37.36	-54.85	-13.00	41.85	142	1	Vertical
3	9438.825	41.38	-39.94	38.48	-55.34	-13.00	42.34	136	269	Vertical
4	10965.2700	32.27	-37.67	39.10	-61.56	-13.00	48.56	266	70	Vertical
5	12793.95	32.80	-36.63	39.62	-59.47	-13.00	46.47	291	132	Vertical
6	14620.3600	28.45	-35.23	39.91	-62.13	-13.00	49.13	152	1	Vertical

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Test Band = UL MIMO N78_ TM1
Test Channel = Mid 3700-3800

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	43.79	-42.78	36.39	-57.86	-13.00	44.86	254	356	Horizontal
2	8412.45	44.79	-41.42	37.36	-54.54	-13.00	41.54	165	69	Horizontal
3	9467.575	41.59	-39.95	38.47	-55.14	-13.00	42.14	291	84	Horizontal
4	11835.2700	29.03	-37.25	38.79	-64.69	-13.00	51.69	175	53	Horizontal
5	13754.775	33.39	-36.13	40.00	-58.00	-13.00	45.00	142	267	Horizontal
6	15180.3600	29.91	-33.90	38.98	-60.27	-13.00	47.27	136	326	Horizontal

Test Band = UL MIMO N78_ TM1
Test Channel = Mid 3700-3800

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	44.61	-42.78	36.39	-57.04	-13.00	44.04	266	22	Vertical
2	8405.55	45.24	-41.39	37.34	-54.07	-13.00	41.07	145	207	Vertical
3	9437.675	41.28	-39.94	38.48	-55.43	-13.00	42.43	128	53	Vertical
4	11835.2700	29.64	-37.25	38.79	-64.08	-13.00	51.08	195	356	Vertical
5	13707.05	32.62	-36.01	40.05	-58.60	-13.00	45.60	142	0	Vertical
6	15180.3600	29.55	-33.90	38.98	-60.63	-13.00	47.63	120	115	Vertical

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Test Band = UL MIMO N78_ TM1
Test Channel = High 3700-3800

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	43.27	-42.69	36.86	-57.82	-13.00	44.82	255	103	Horizontal
2	8436.6	45.23	-41.53	37.41	-54.15	-13.00	41.15	162	194	Horizontal
3	9425.025	41.52	-39.93	38.48	-55.19	-13.00	42.19	132	286	Horizontal
4	11805.2700	30.29	-37.21	38.76	-63.42	-13.00	50.42	166	180	Horizontal
5	13783.525	33.55	-36.21	39.98	-57.94	-13.00	44.94	195	42	Horizontal
6	15740.3600	29.45	-33.18	38.27	-60.72	-13.00	47.72	142	28	Horizontal

Test Band = UL MIMO N78_ TM1
Test Channel = High 3700-3800

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	42.09	-42.69	36.86	-59.00	-13.00	46.00	132	102	Vertical
2	8449.825	45.84	-41.58	37.43	-53.57	-13.00	40.57	155	316	Vertical
3	9454.925	41.71	-39.94	38.48	-55.02	-13.00	42.02	146	316	Vertical
4	11805.2700	29.42	-37.21	38.76	-64.29	-13.00	51.29	158	0	Vertical
5	13762.825	33.23	-36.15	40.00	-58.19	-13.00	45.19	174	0	Vertical
6	15740.3600	29.61	-33.18	38.27	-60.56	-13.00	47.56	196	344	Vertical

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Test Band = 5G NR NSA 41A-N78A_ TM1
Test Channel = Low 3700-3800 WORSE

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	43.47	-43.27	36.54	-58.52	-13.00	45.52	265	15	Horizontal
2	8421.075	45.08	-41.46	37.37	-54.27	-13.00	41.27	155	195	Horizontal
3	9462.4	41.68	-39.94	38.47	-55.05	-13.00	42.05	148	58	Horizontal
4	10965.2700	30.08	-37.67	39.10	-63.75	-13.00	50.75	195	255	Horizontal
5	12823.85	34.39	-36.68	39.65	-57.90	-13.00	44.90	132	332	Horizontal
6	14620.3600	29.39	-35.23	39.91	-61.19	-13.00	48.19	144	178	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	7310.1800	43.81	-43.27	36.54	-58.18	-13.00	45.18	254	164	Vertical
2	8409.575	44.92	-41.41	37.35	-54.40	-13.00	41.40	162	313	Vertical
3	9460.675	41.58	-39.94	38.47	-55.15	-13.00	42.15	235	116	Vertical
4	10965.2700	31.44	-37.67	39.10	-62.39	-13.00	49.39	145	0	Vertical
5	13698.425	32.87	-35.99	40.06	-58.32	-13.00	45.32	251	41	Vertical
6	14620.3600	28.93	-35.23	39.91	-61.65	-13.00	48.65	145	207	Vertical

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Test Band = 5G NR NSA 41A-N78A_ TM1
Test Channel = Mid 3700-3800 WORSE

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	42.82	-42.78	36.39	-58.83	-13.00	45.83	254	256	Horizontal
2	8428.55	45.02	-41.49	37.39	-54.34	-13.00	41.34	125	150	Horizontal
3	9415.825	41.15	-39.93	38.49	-55.55	-13.00	42.55	261	164	Horizontal
4	11246.625	35.22	-36.89	39.11	-57.82	-13.00	44.82	251	195	Horizontal
5	11835.2700	29.08	-37.25	38.79	-64.64	-13.00	51.64	148	0	Horizontal
6	15180.3600	30.63	-33.90	38.98	-59.55	-13.00	46.55	195	59	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	7590.1800	43.29	-42.78	36.39	-58.36	-13.00	45.36	254	74	Vertical
2	8402.675	44.66	-41.38	37.34	-54.65	-13.00	41.65	125	29	Vertical
3	9443.425	41.14	-39.94	38.48	-55.58	-13.00	42.58	169	58	Vertical
4	10108.7	35.99	-38.75	38.66	-59.36	-13.00	46.36	251	165	Vertical
5	11835.2700	28.05	-37.25	38.79	-65.67	-13.00	52.67	187	357	Vertical
6	15180.3600	29.69	-33.90	38.98	-60.49	-13.00	47.49	175	0	Vertical

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Test Band = 5G NR NSA 41A-N78A_ TM1
Test Channel = High 3700-3800 WORSE

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	42.03	-42.69	36.86	-59.06	-13.00	46.06	211	4	Horizontal
2	8425.675	45.05	-41.48	37.38	-54.31	-13.00	41.31	236	115	Horizontal
3	9498.05	41.19	-39.96	38.47	-55.56	-13.00	42.56	251	100	Horizontal
4	11249.5	34.32	-36.91	39.11	-58.74	-13.00	45.74	188	162	Horizontal
5	11805.2700	28.56	-37.21	38.76	-65.15	-13.00	52.15	145	1	Horizontal
6	15740.3600	30.54	-33.18	38.27	-59.63	-13.00	46.63	199	190	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	7870.1800	42.44	-42.69	36.86	-58.65	-13.00	45.65	228	14	Vertical
2	8424.525	44.96	-41.48	37.38	-54.39	-13.00	41.39	146	239	Vertical
3	9447.45	40.69	-39.94	38.48	-56.03	-13.00	43.03	111	301	Vertical
4	10469.8	35.46	-38.75	38.93	-59.62	-13.00	46.62	142	28	Vertical
5	11805.2700	29.50	-37.21	38.76	-64.21	-13.00	51.21	269	194	Vertical
6	15740.3600	29.91	-33.18	38.27	-60.26	-13.00	47.26	281	285	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 for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	5.700000	0.001520	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	2.600000	0.000693	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	0.500000	0.000133	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VH	NT	4.300000	0.001147	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VN	NT	1.400000	0.000373	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VL	NT	5.500000	0.001467	PASS

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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	9.100000	0.002427	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	8.900000	0.002373	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	5.800000	0.001547	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	4.100000	0.001093	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	3.200000	0.000853	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	6.500000	0.001733	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	4.100000	0.001093	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	4.600000	0.001227	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	5.500000	0.001467	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-30	-0.200000	-0.000053	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-20	13.200000	0.003520	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-10	2.000000	0.000533	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	0	7.500000	0.002000	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	10	4.800000	0.001280	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	20	7.700000	0.002053	PASS
N78-3700-3	30	100	CP-QPSK	M	Outer_F	NV	30	3.700000	0.0009	PAS

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N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	40	-0.900000	-0.000240	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	50	13.400000	0.003573	PASS

---End of Attachment---

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