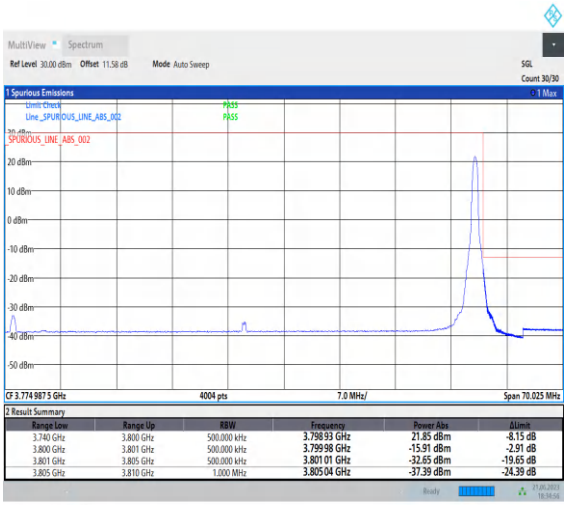

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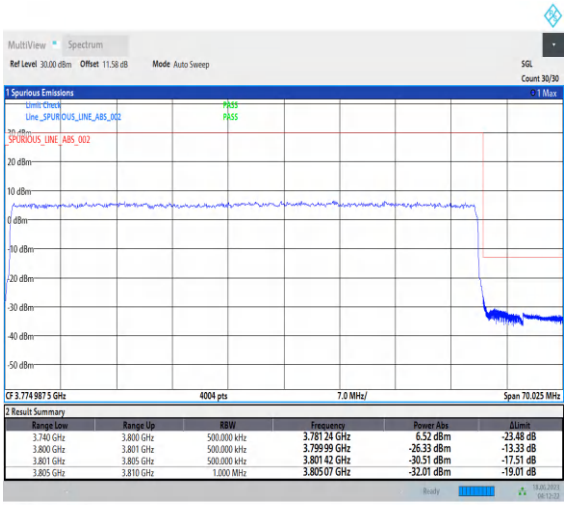

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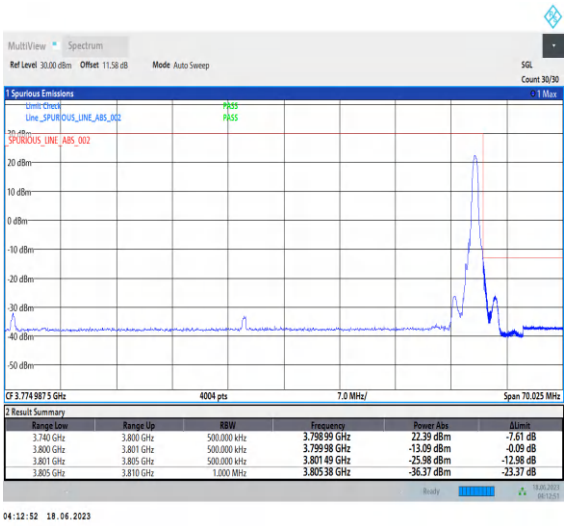

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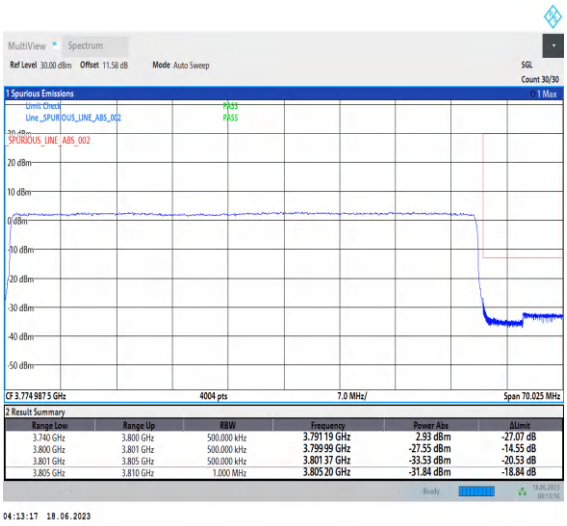

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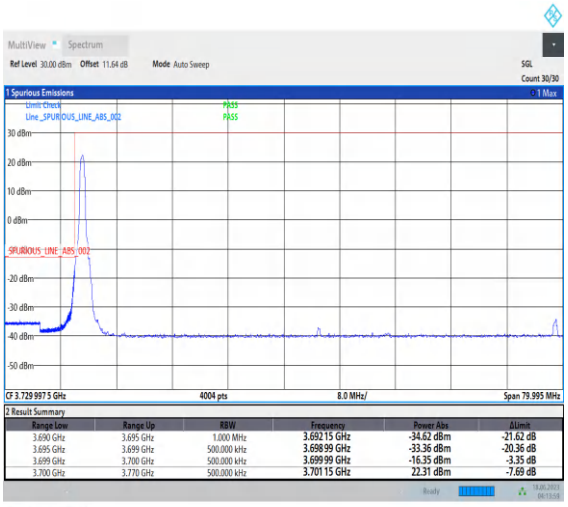

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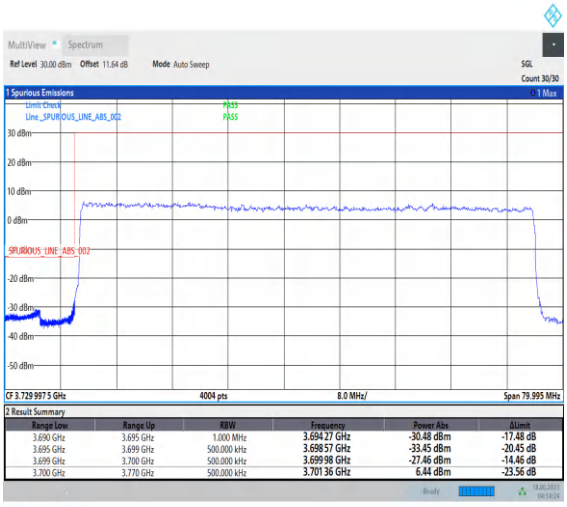

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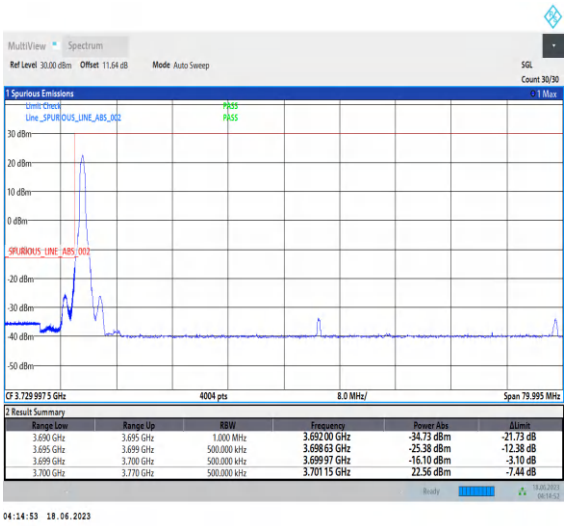

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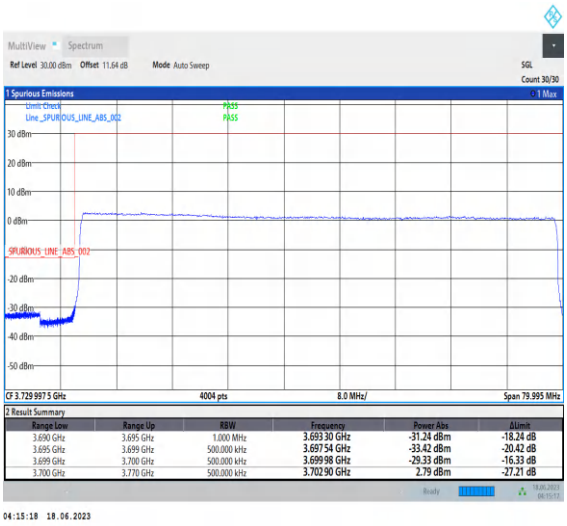

1-N78-3700-3800-PC2-30-70-L-6-CP-QPSK-Outer_Full-189@0-Ant2-1--PASS-see graph

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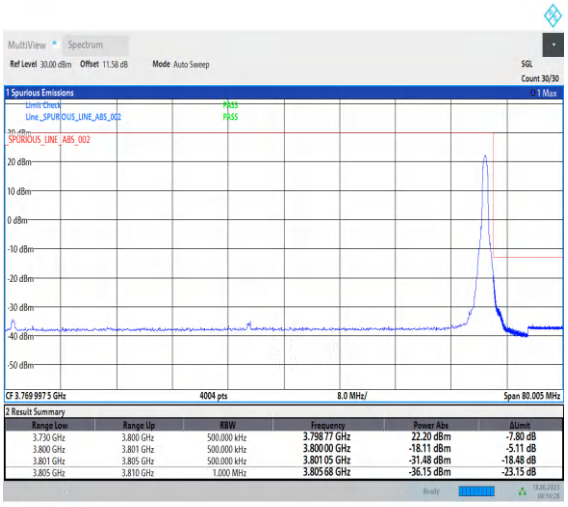

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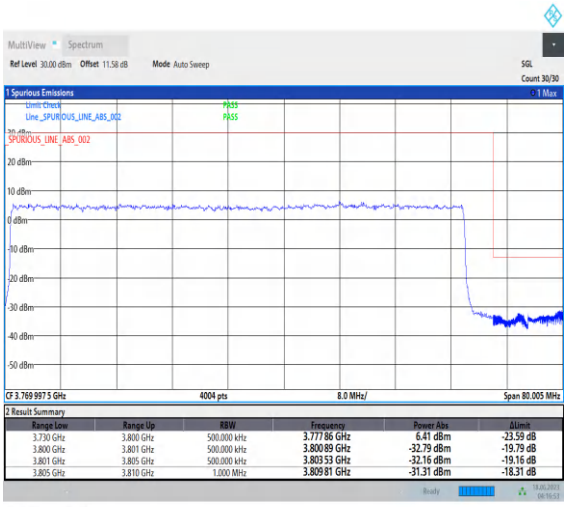

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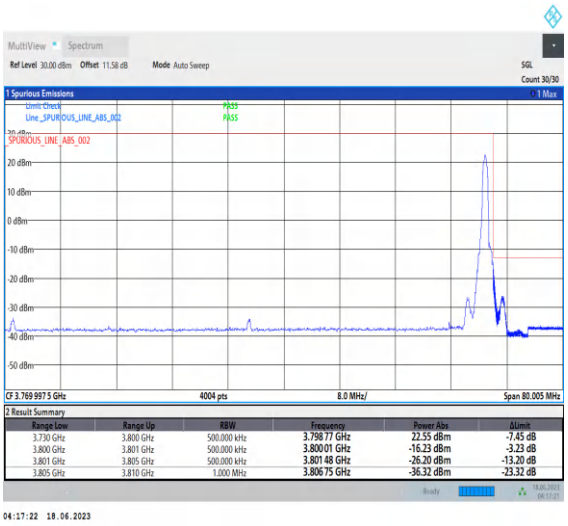

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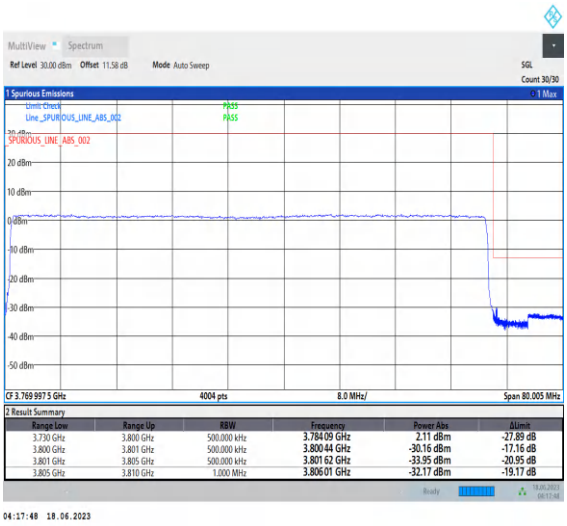

1-N78-3700-3800-PC2-30-70-H-6-CP-QPSK-Outer_Full-189@0-Ant2-1--PASS-see graph

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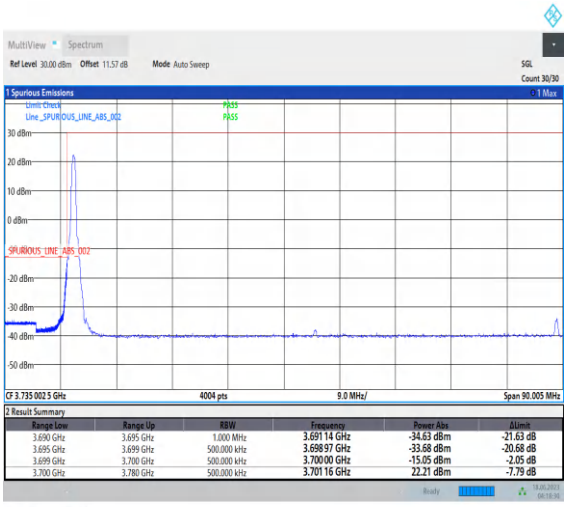

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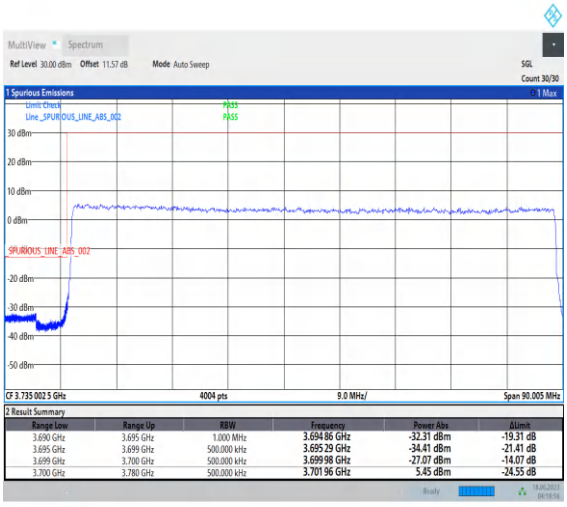

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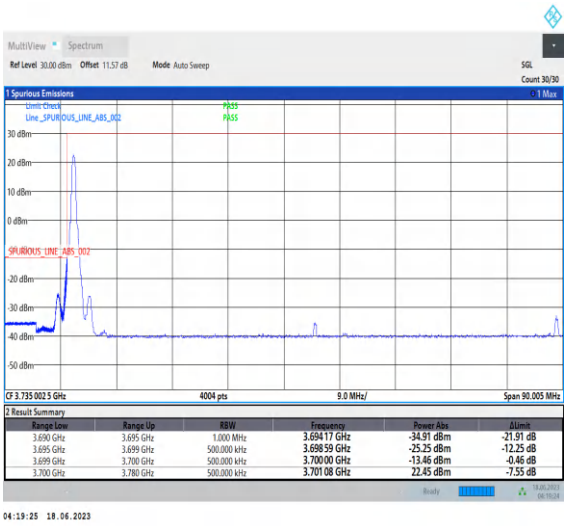

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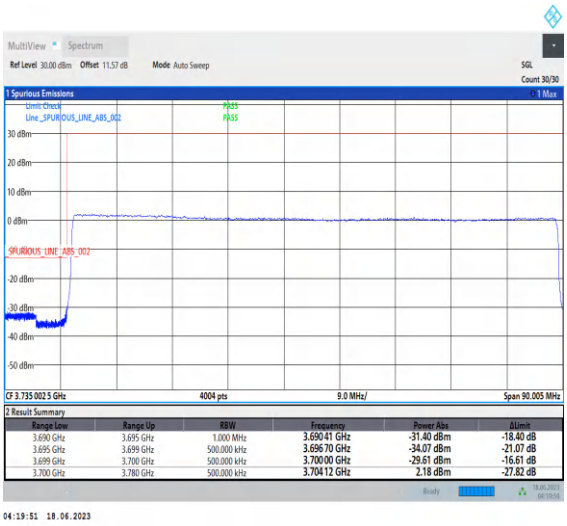

1-N78-3700-3800-PC2-30-80-L-6-CP-QPSK-Outer_Full-217@0-Ant2-1--PASS-see graph

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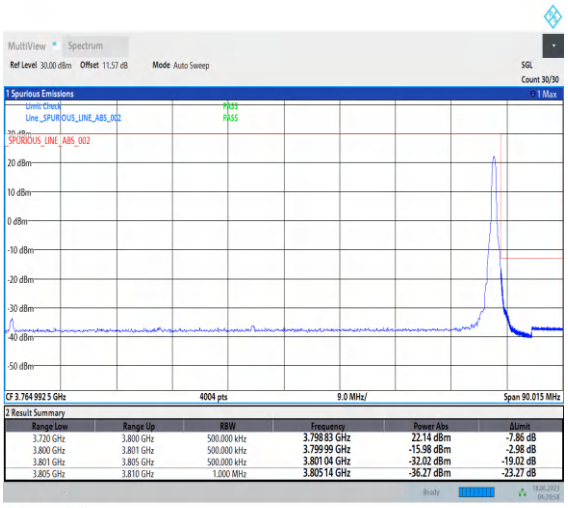

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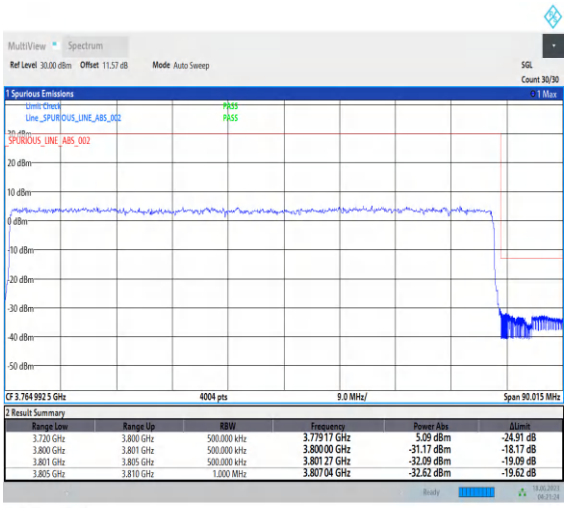

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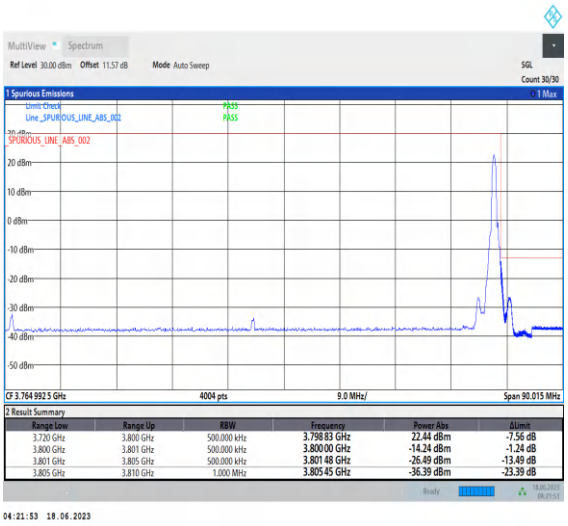

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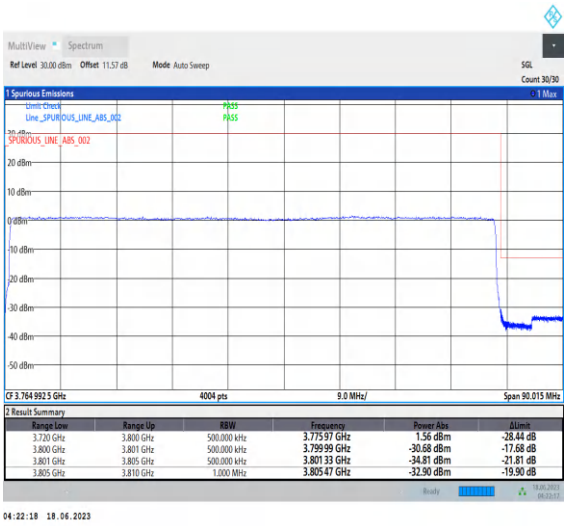

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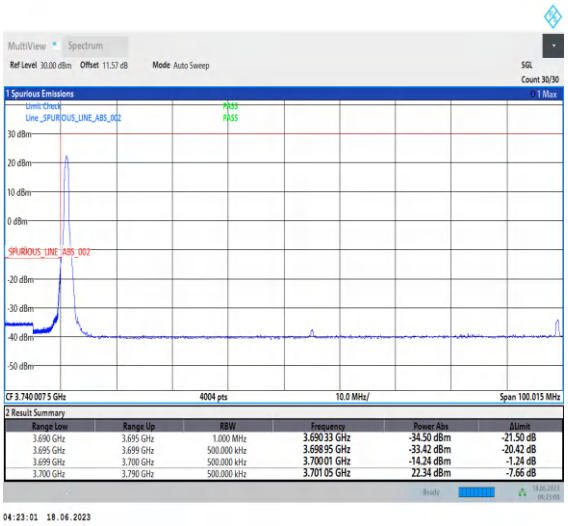

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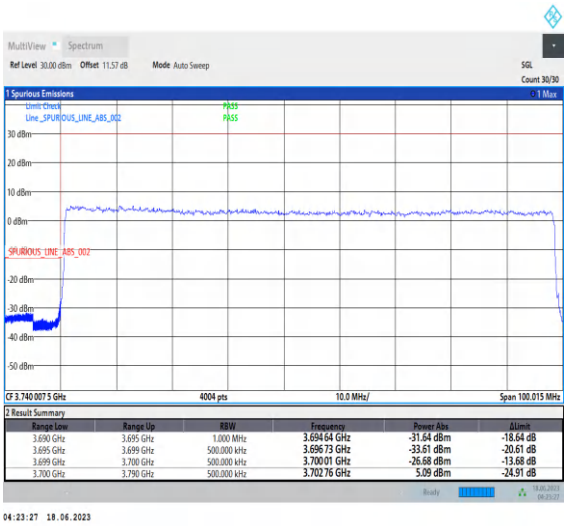

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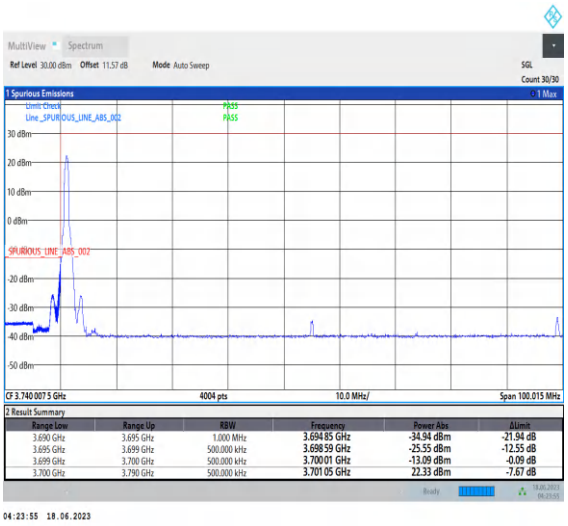

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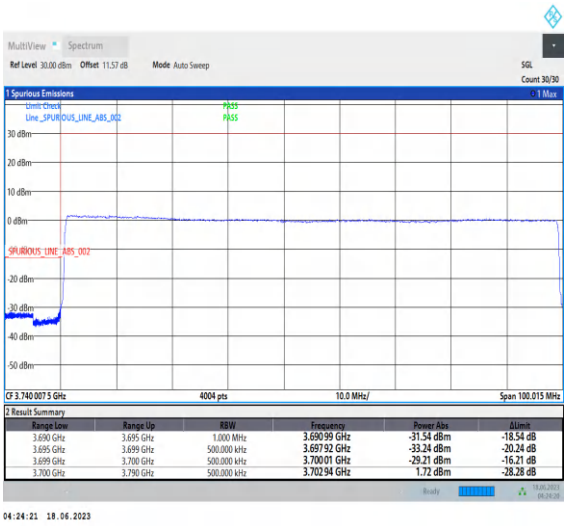

1-N78-3700-3800-PC2-30-90-L-6-CP-QPSK-Outer_Full-245@0-Ant2-1--PASS-see graph

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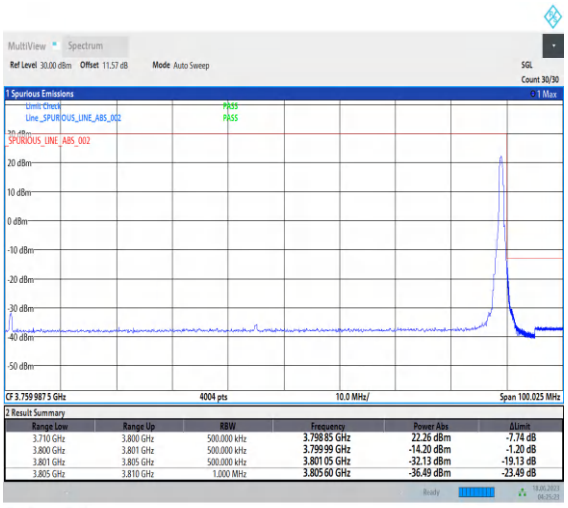

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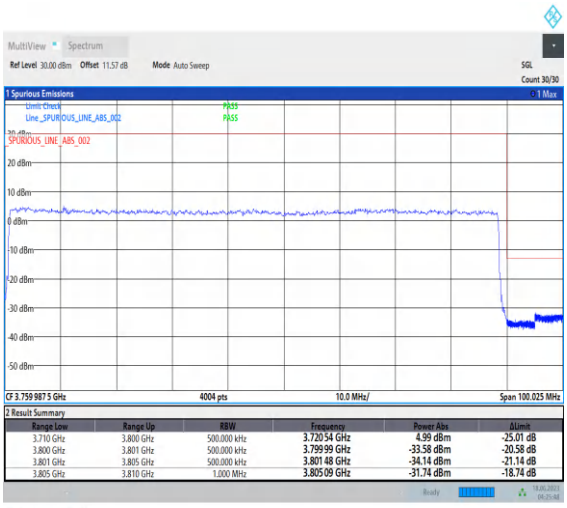

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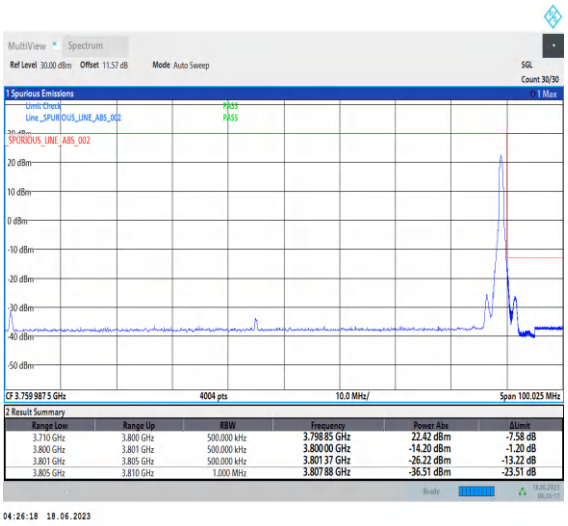

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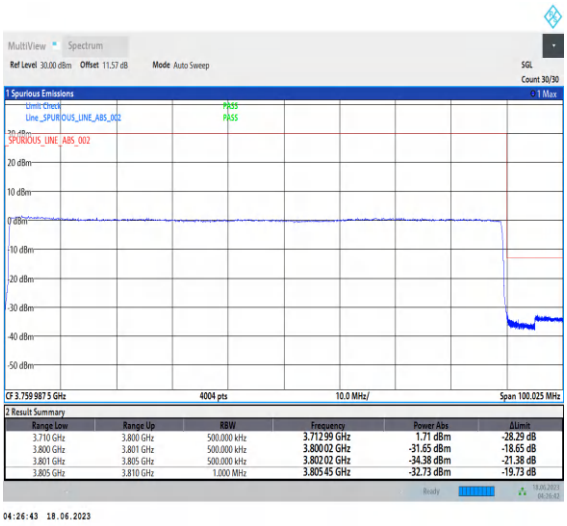

1-N78-3700-3800-PC2-30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant2-1--PASS-see graph

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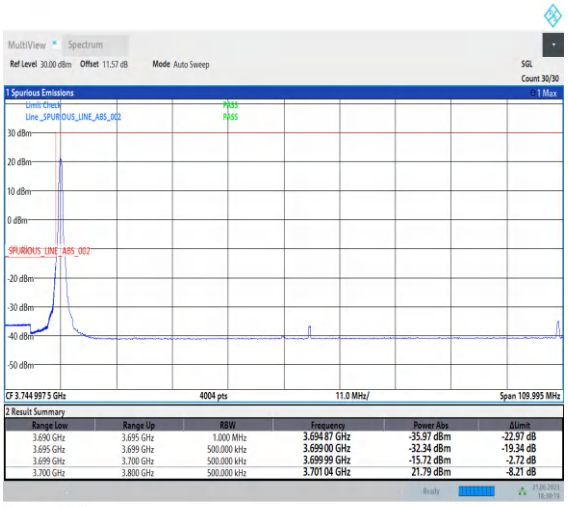

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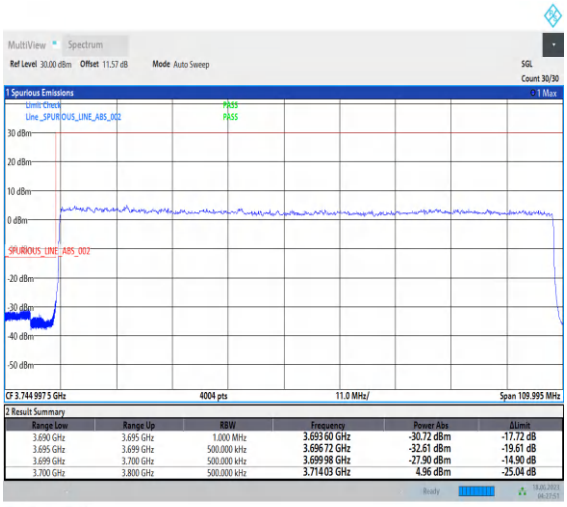

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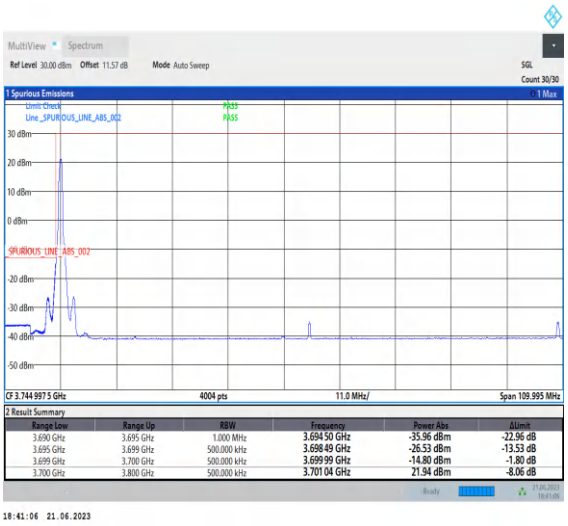

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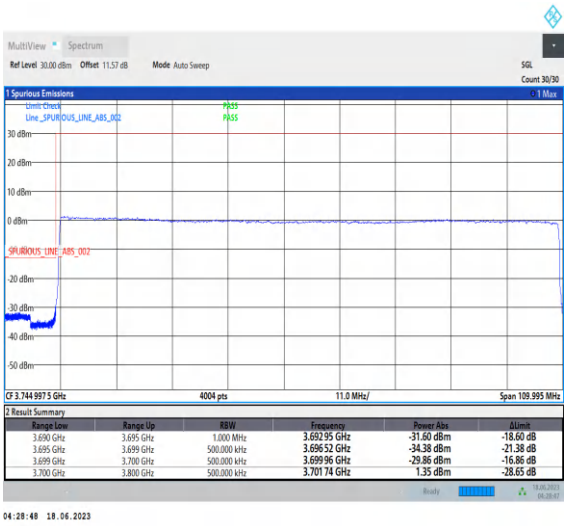

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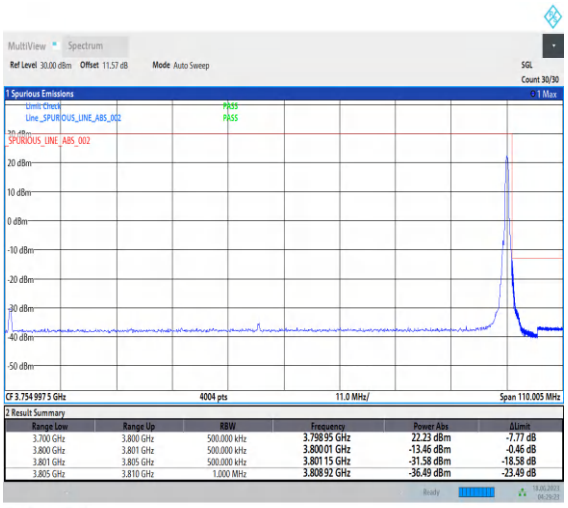

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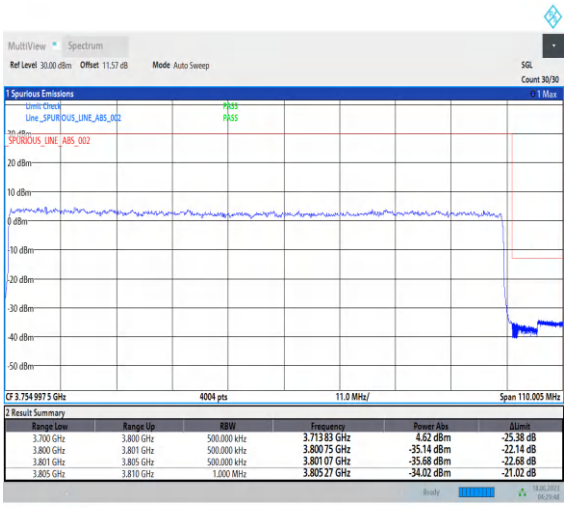

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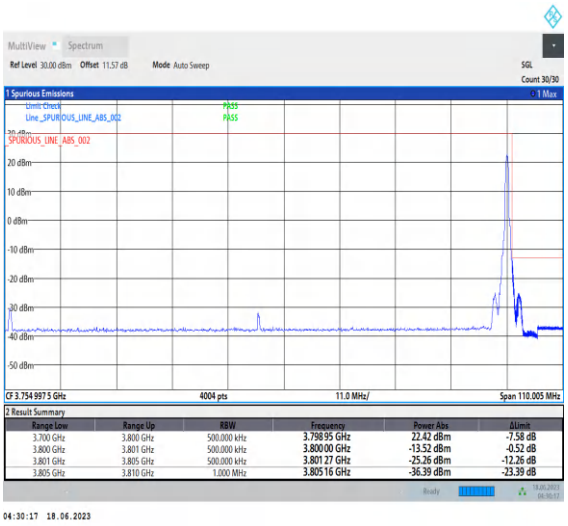

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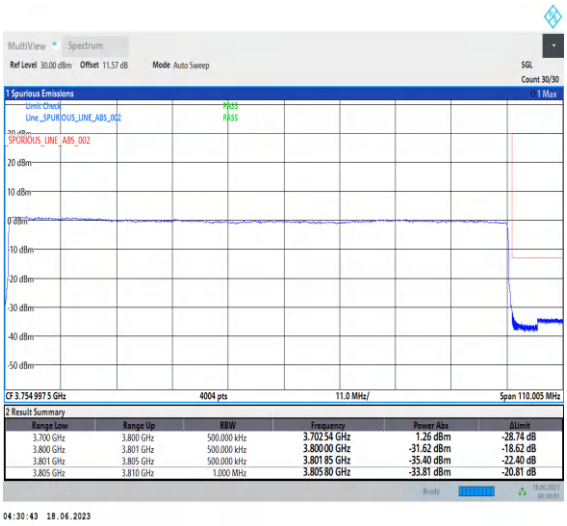

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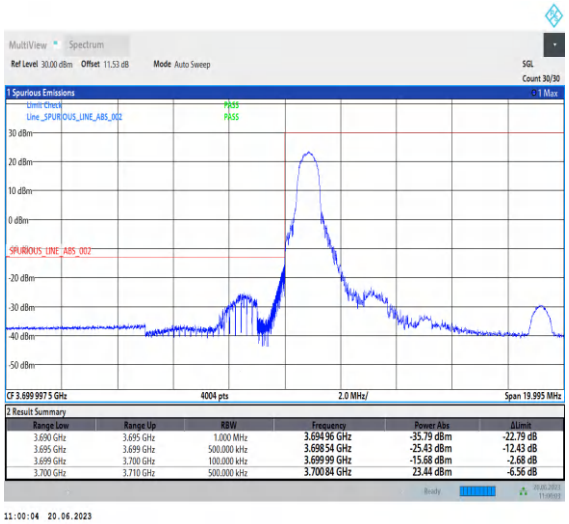
Band Edge for MIMO

Test Graphs



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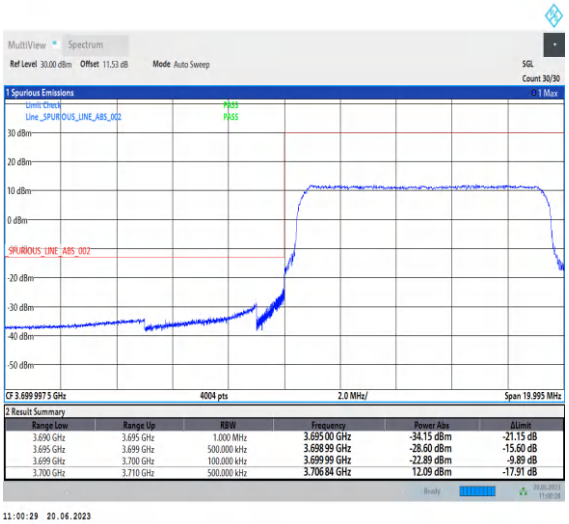

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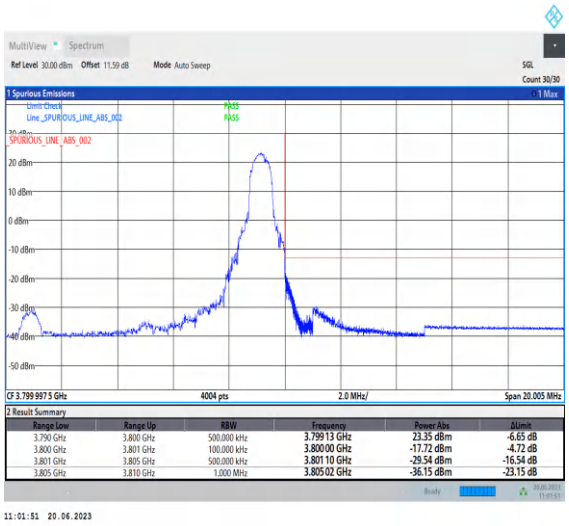

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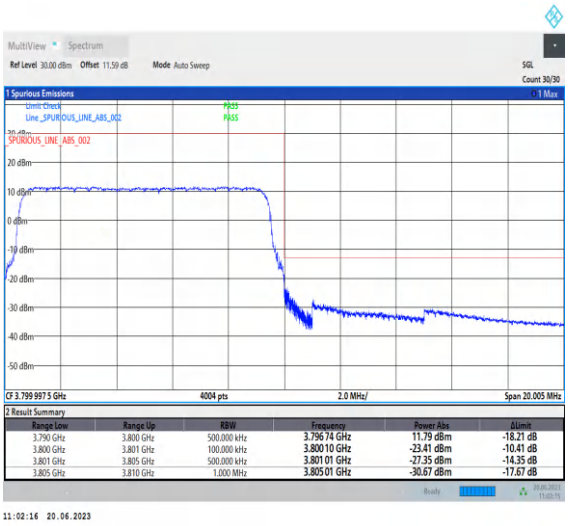

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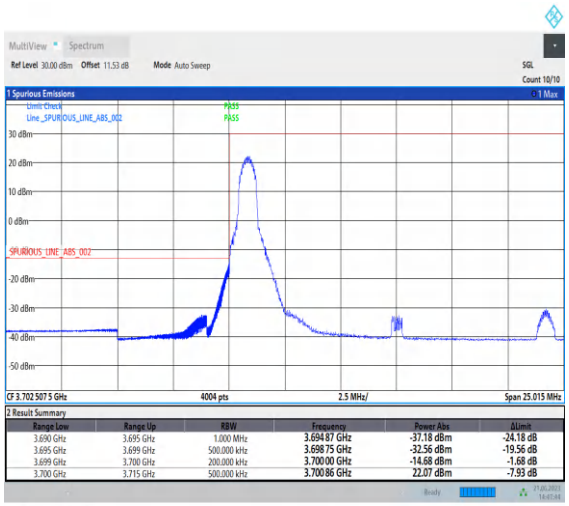

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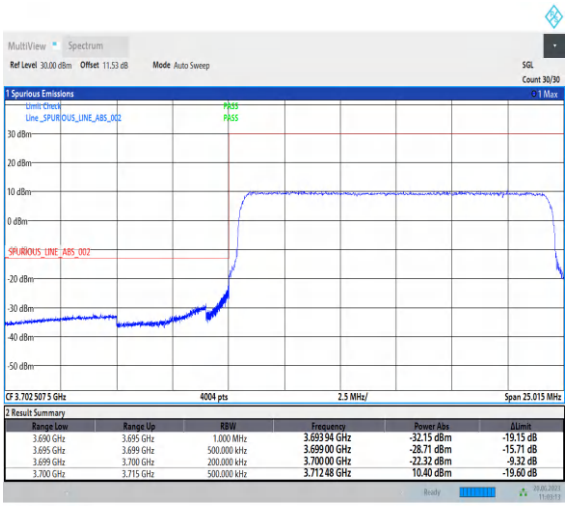

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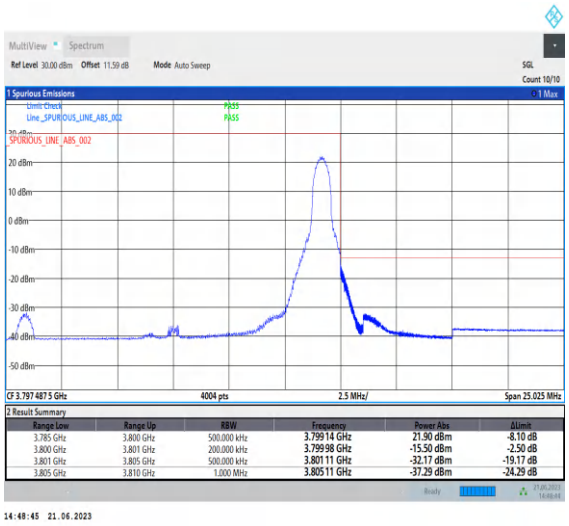

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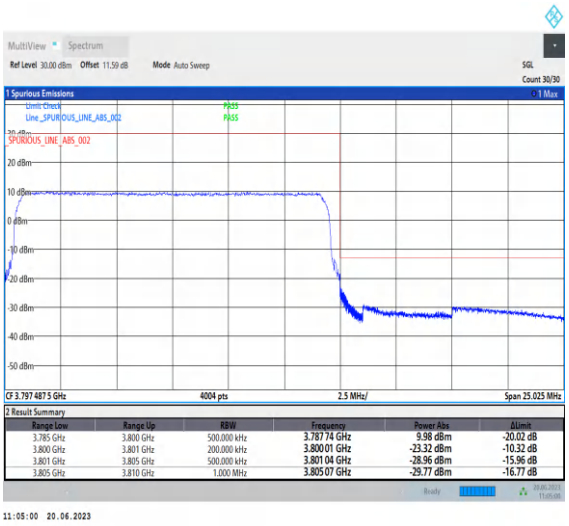

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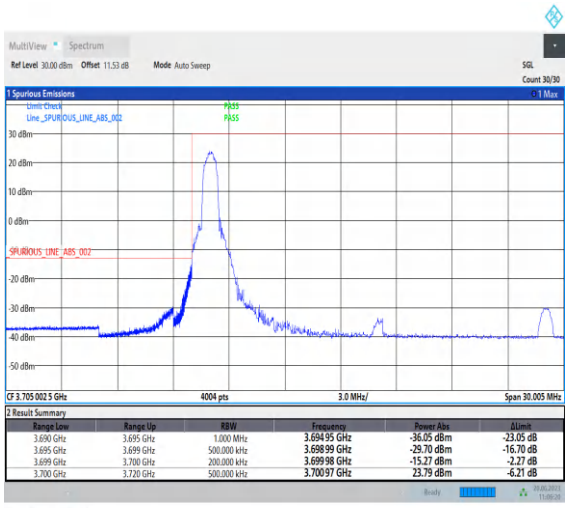

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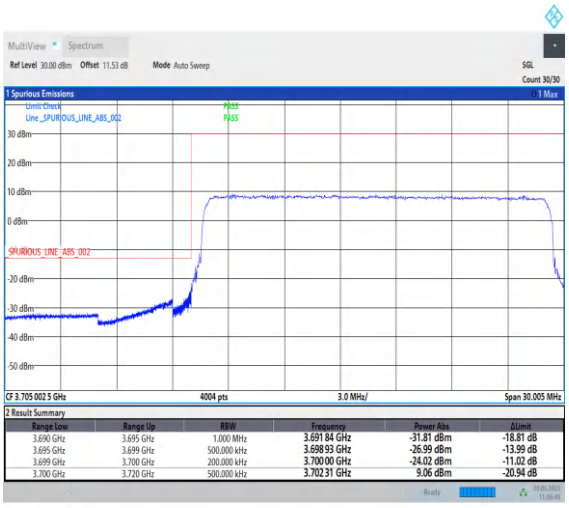

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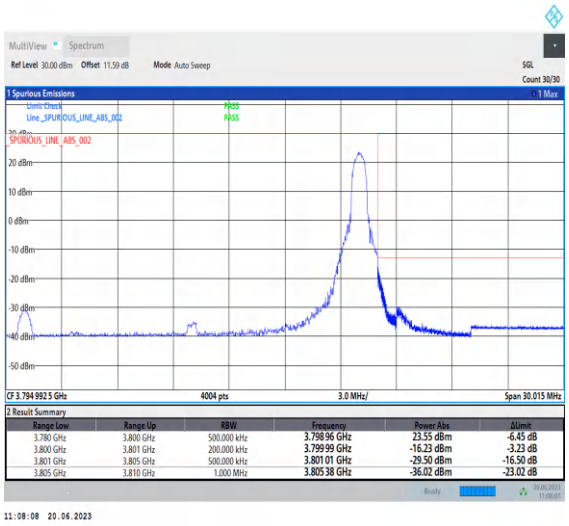

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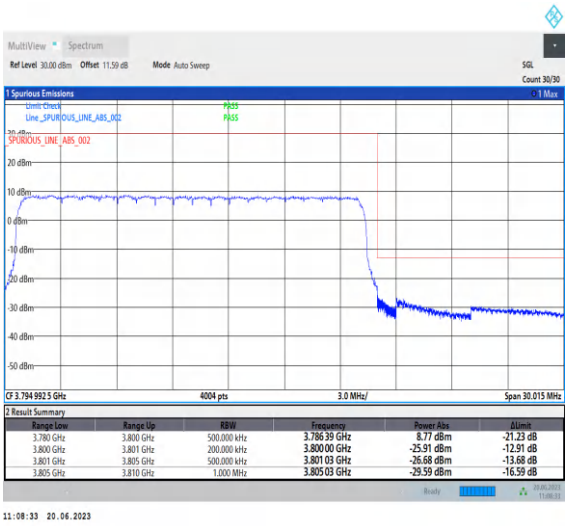

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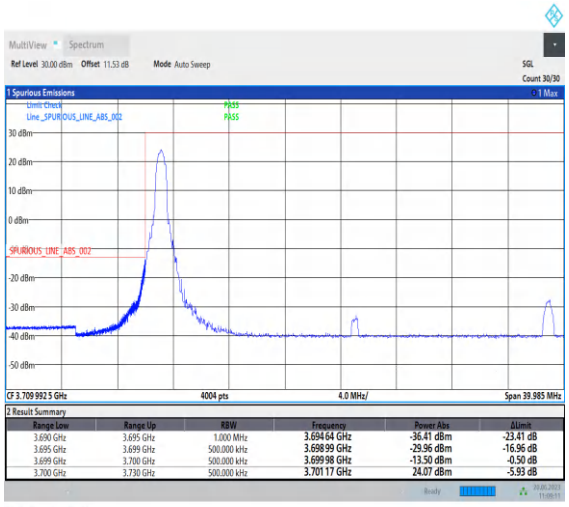

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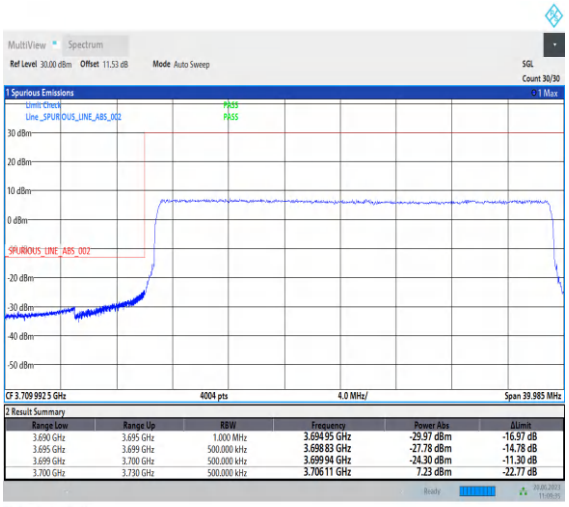

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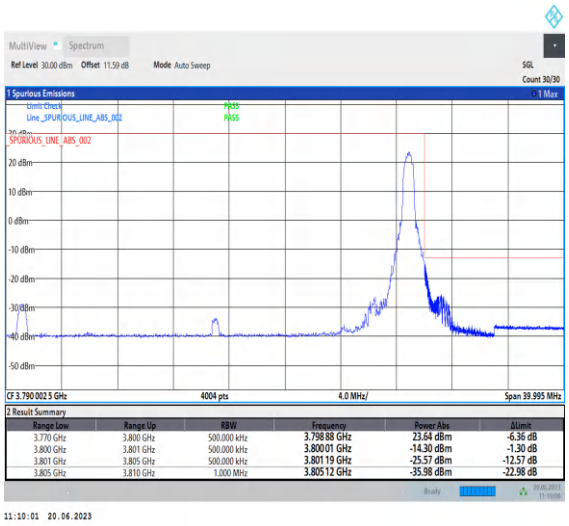

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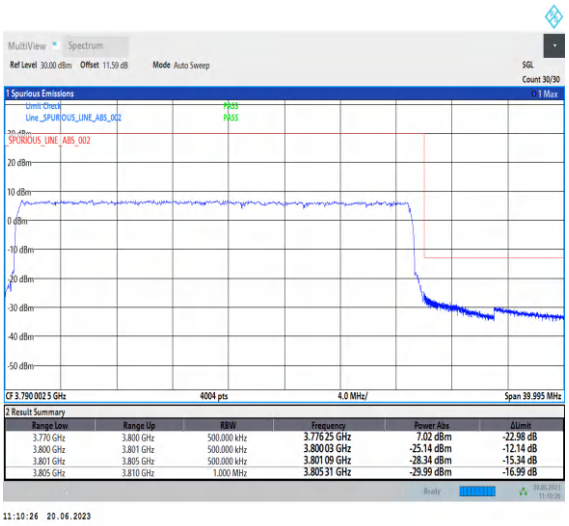

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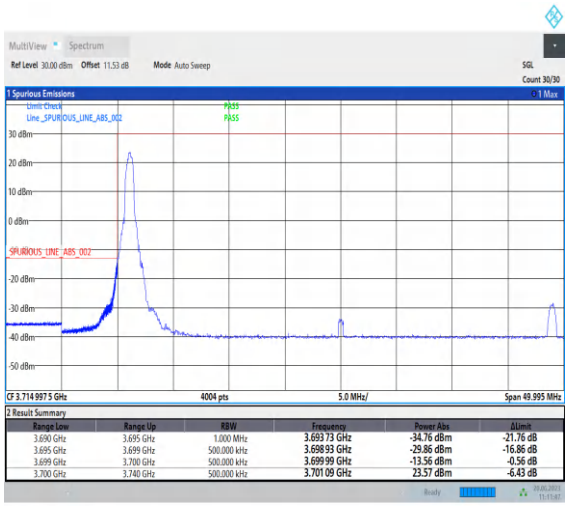

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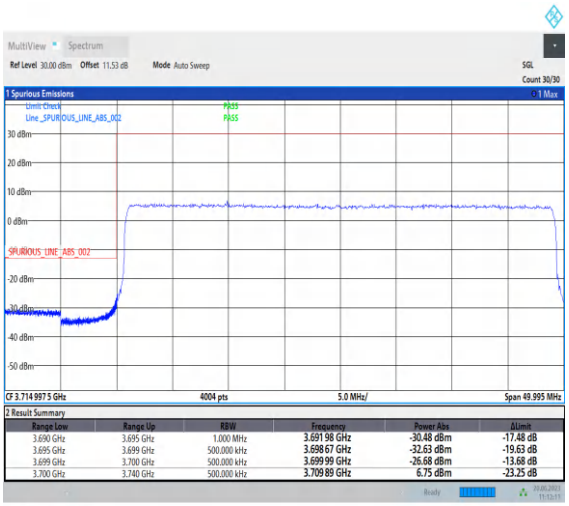

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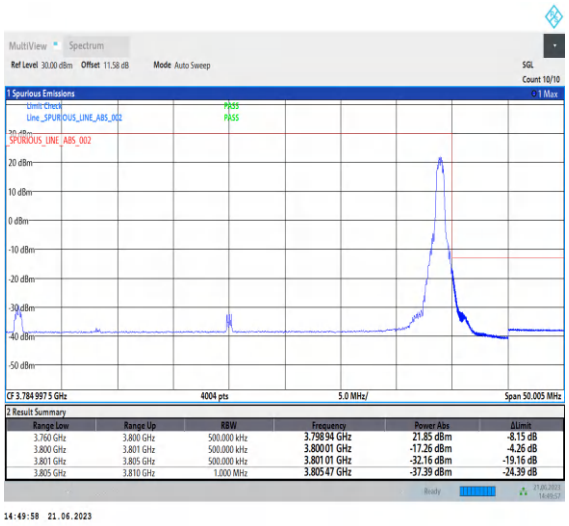

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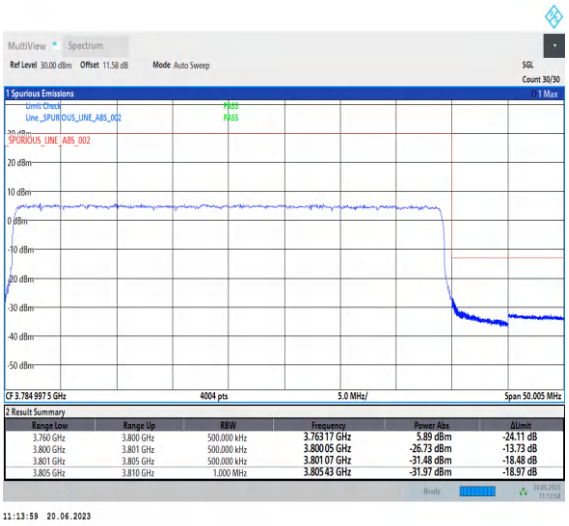

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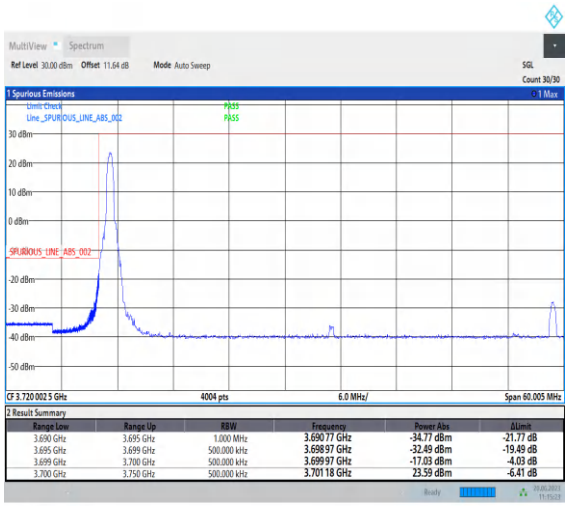

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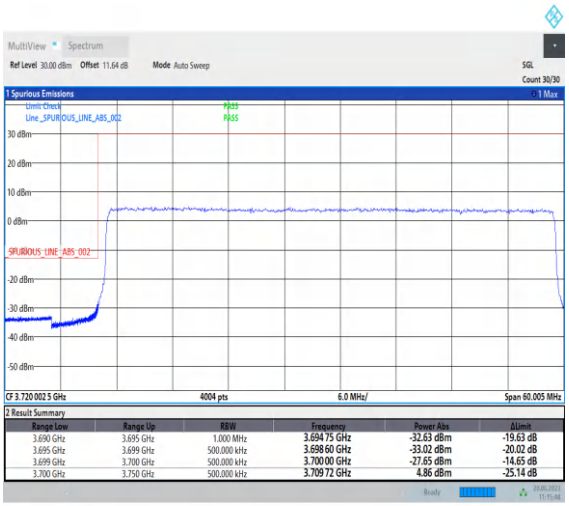

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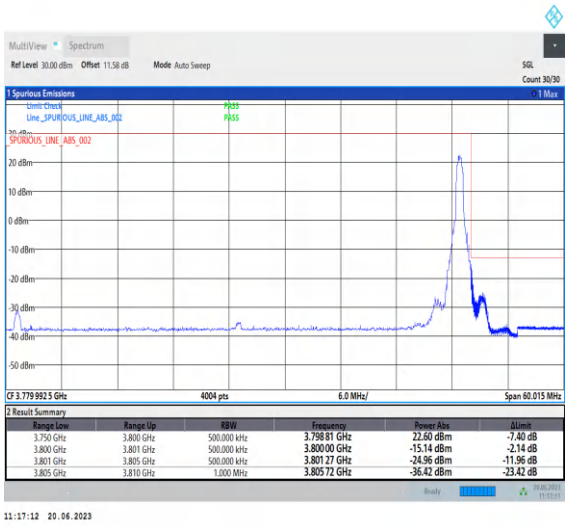

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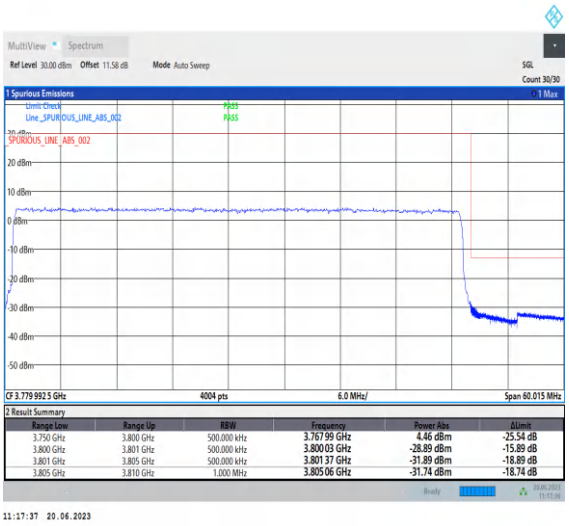

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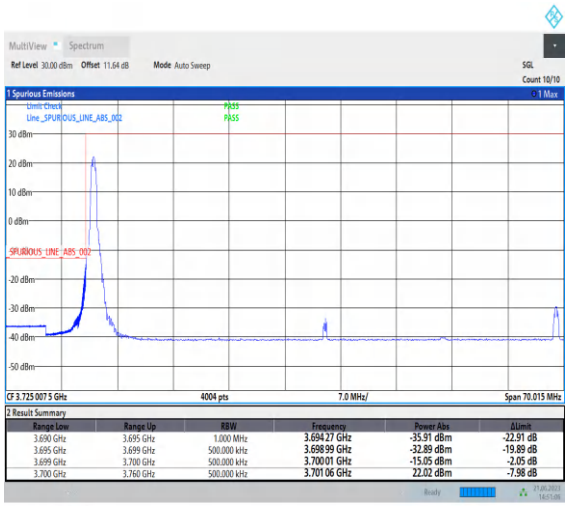

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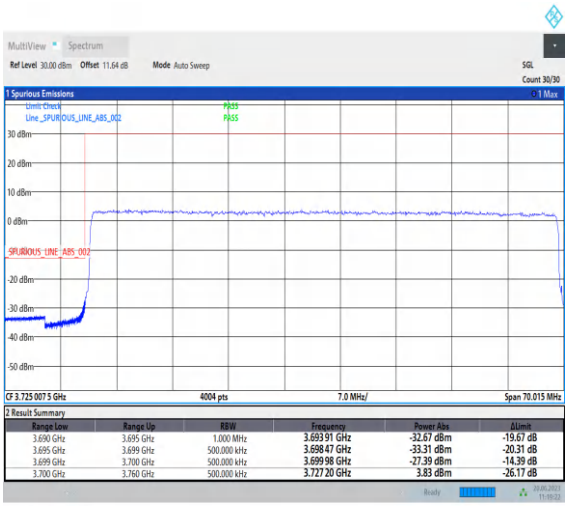

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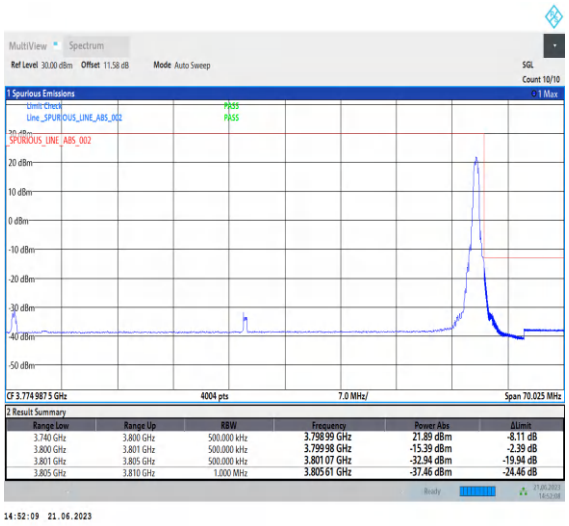

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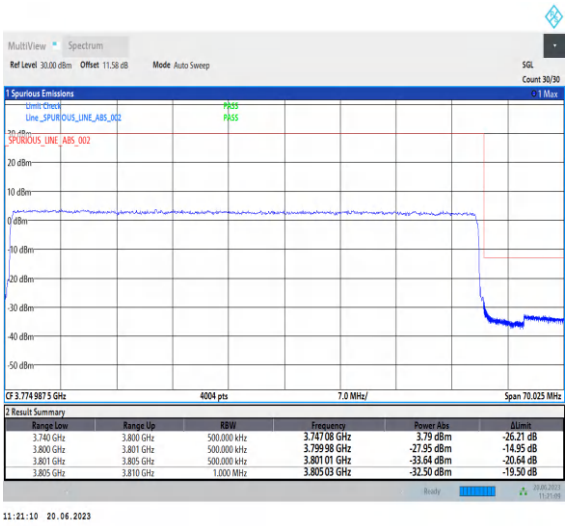

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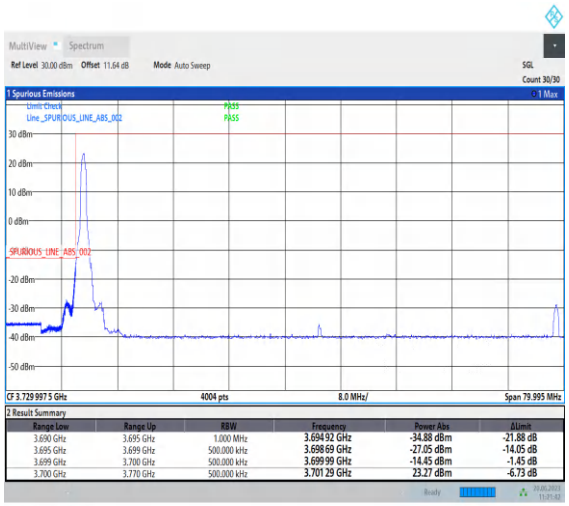

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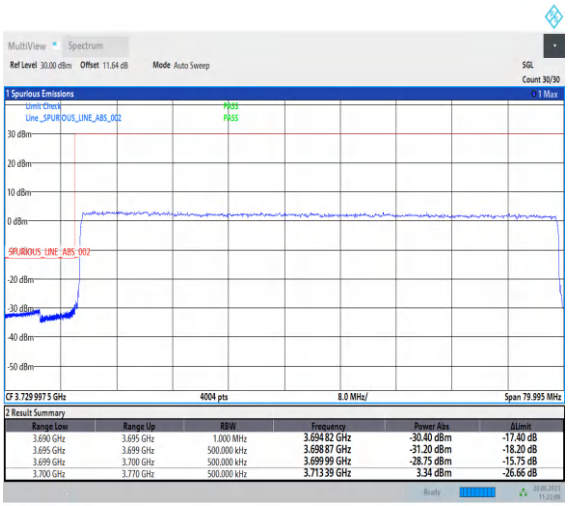

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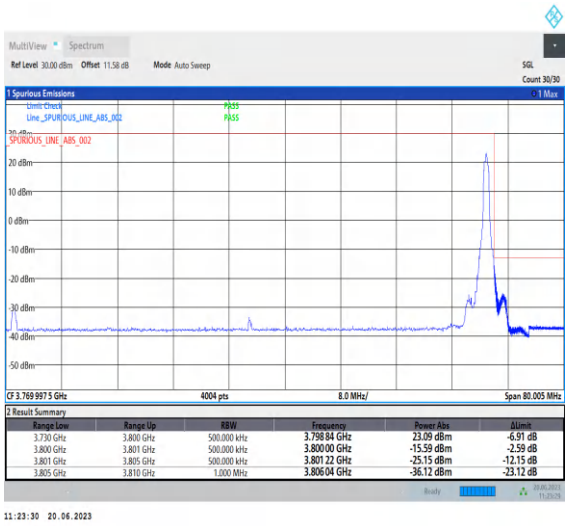

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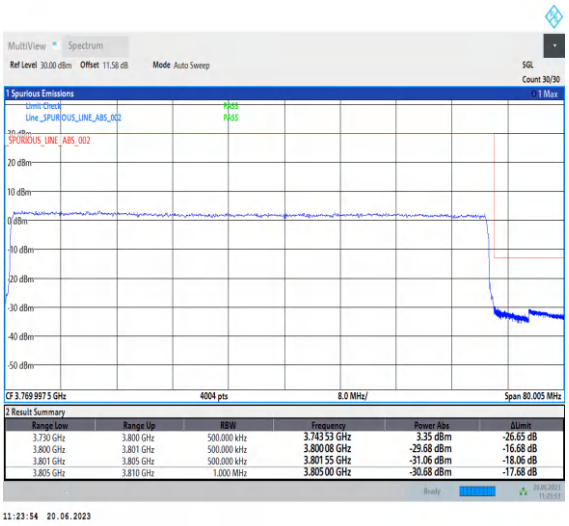

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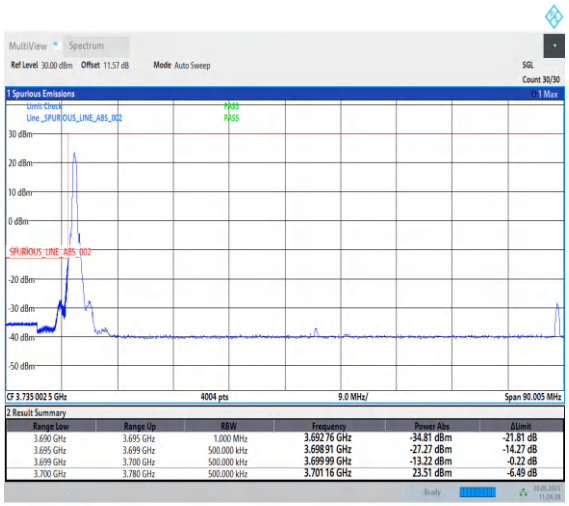

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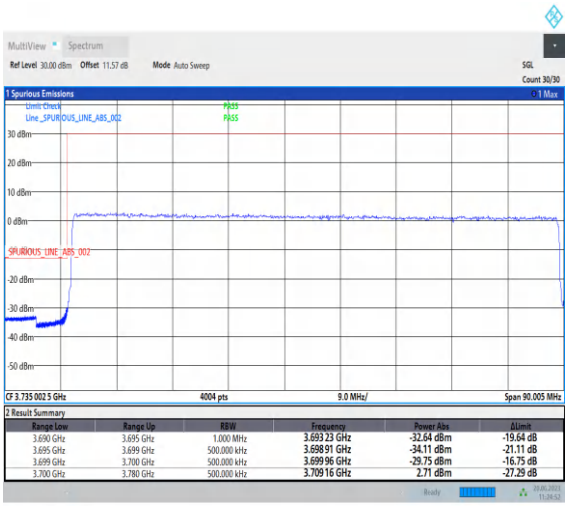

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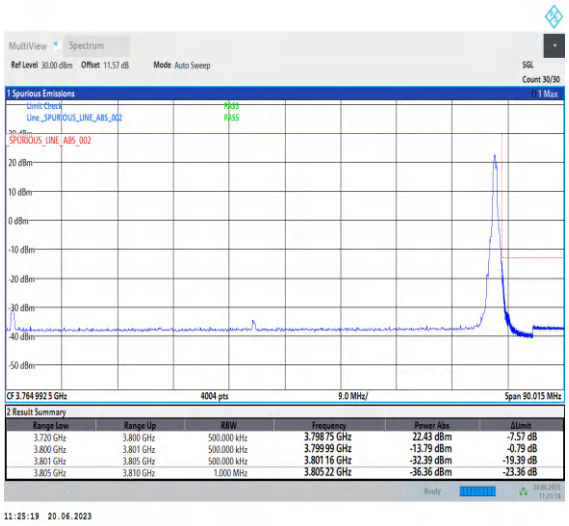

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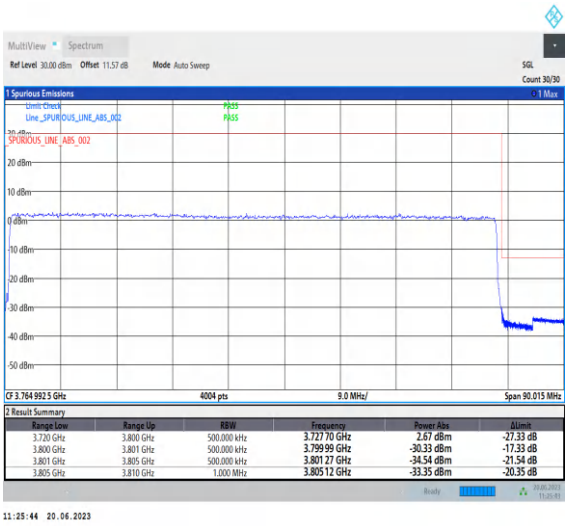

1-N78-3700-3800-PC2-30-80-H-3-CP-QPSK-Outer_Full-217@0-Ant2-1--PASS-see graph

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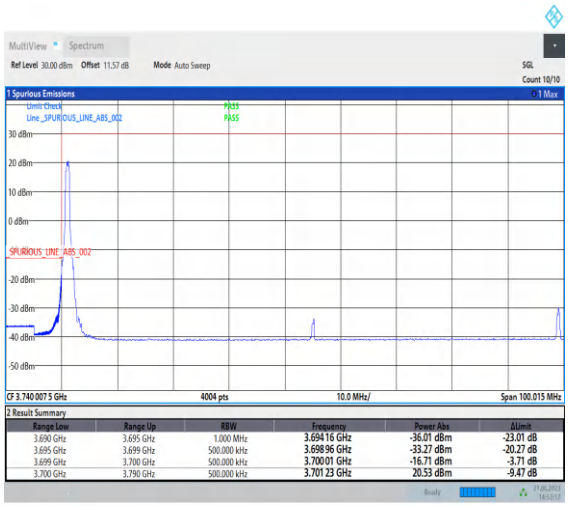

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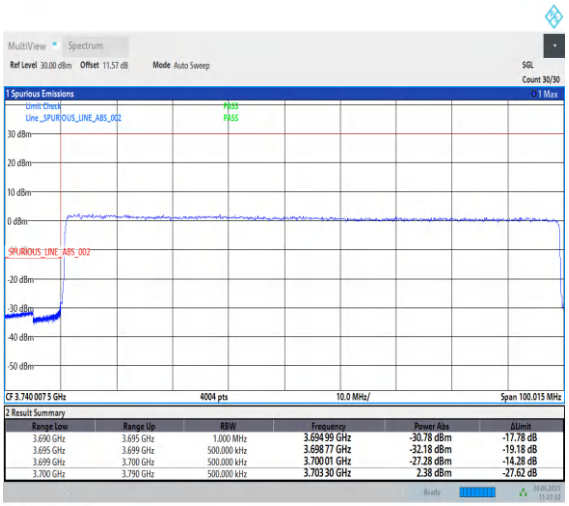

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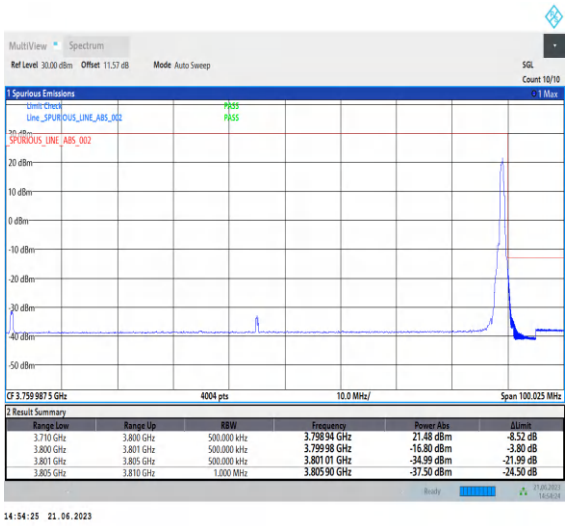

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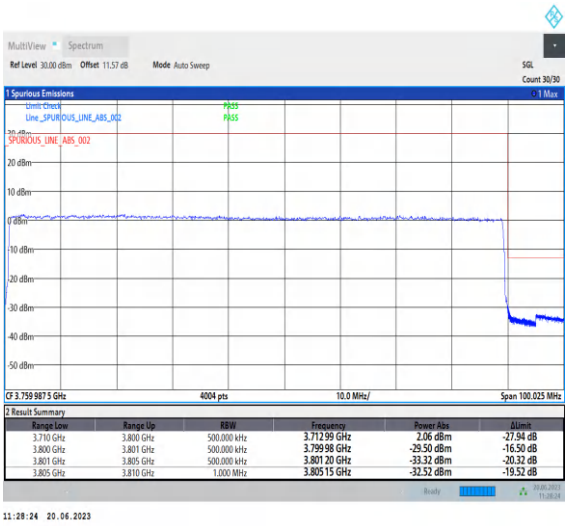

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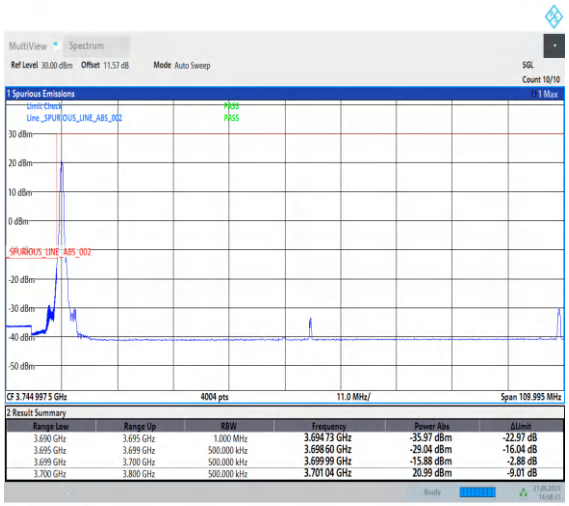

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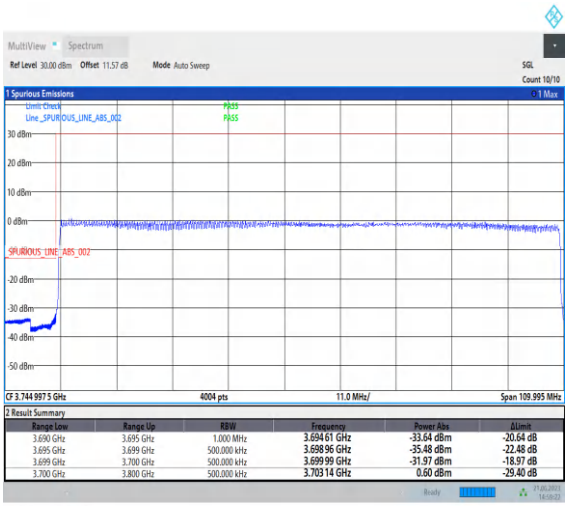

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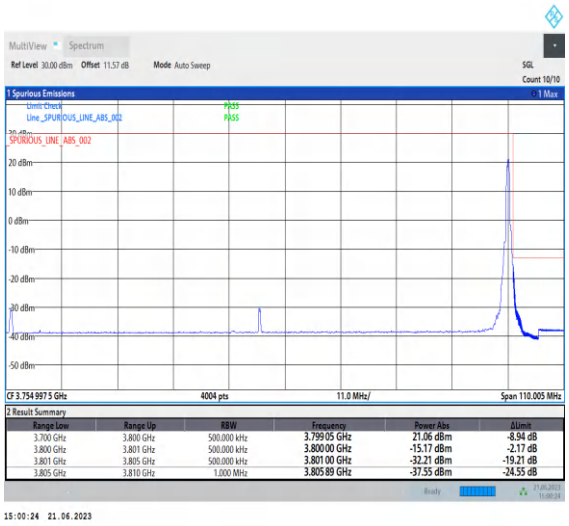
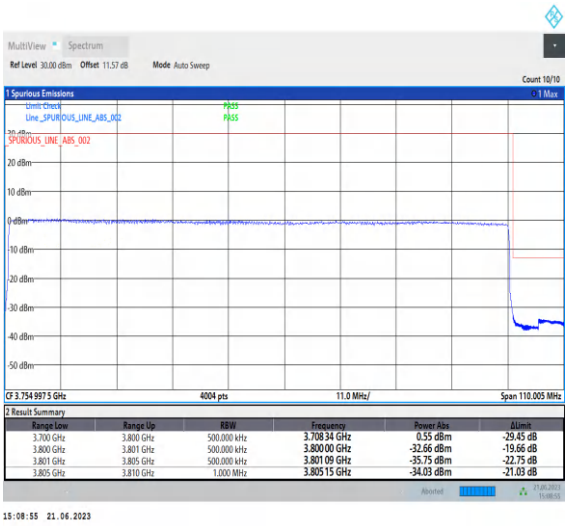


1-N78-3700-3800-PC2-30-100-H-2-CP-QPSK-Edge_1RB_Right-1@272-Ant2-1--PASS-see graph



1-N78-3700-3800-PC2-30-100-H-3-CP-QPSK-Outer_Full-273@0-Ant2-1--PASS-see graph

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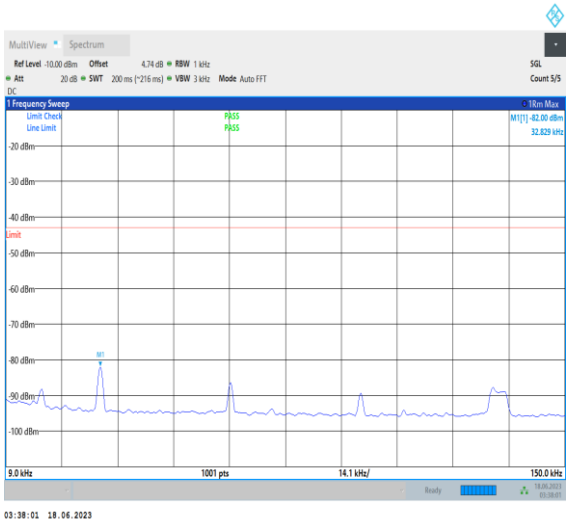
Conducted Spurious Emission for SA

Test Graphs



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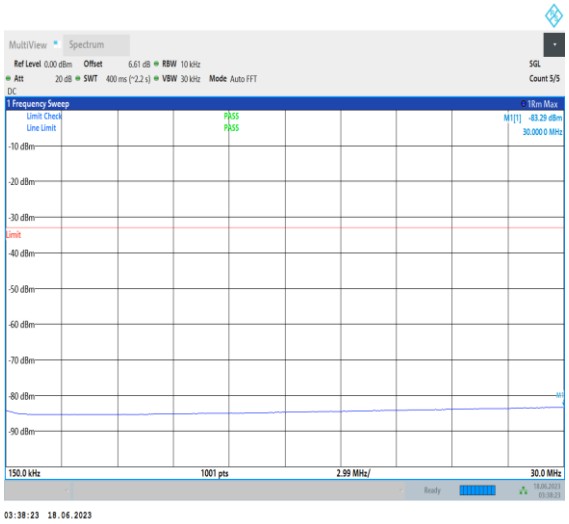

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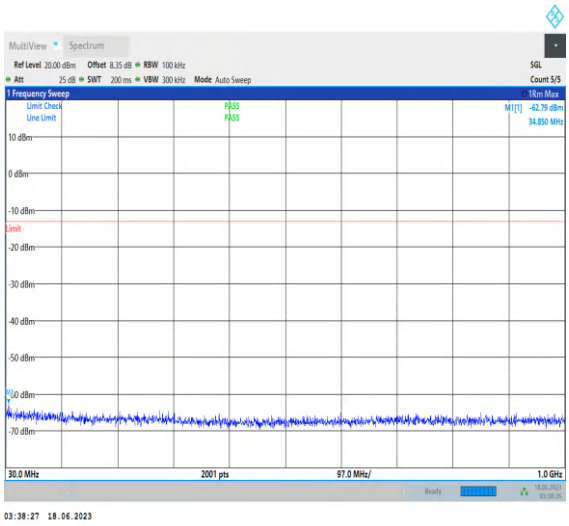

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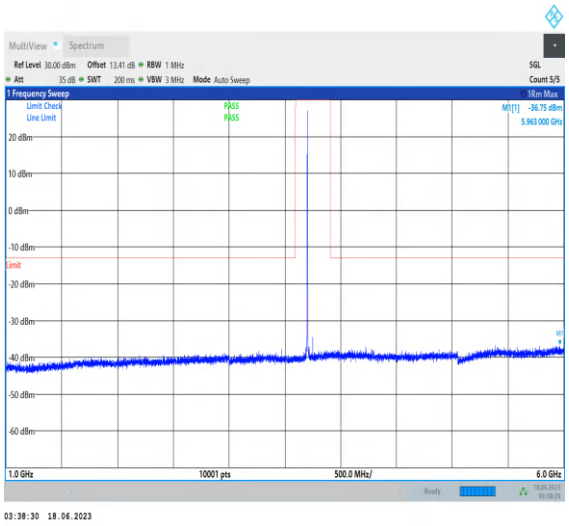

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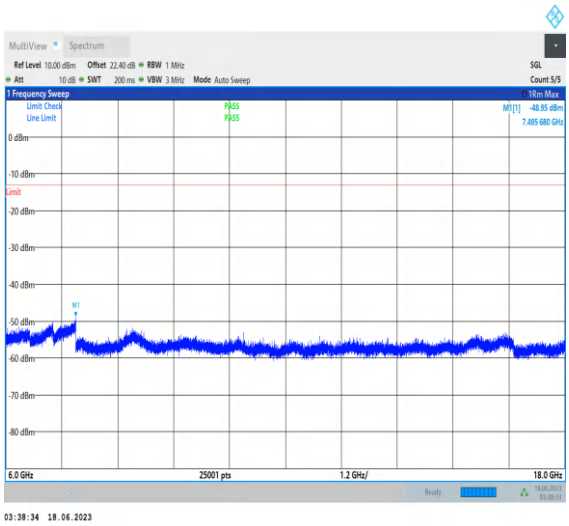

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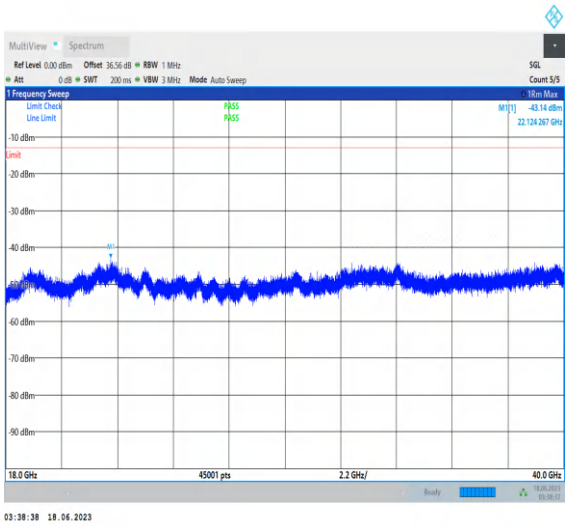

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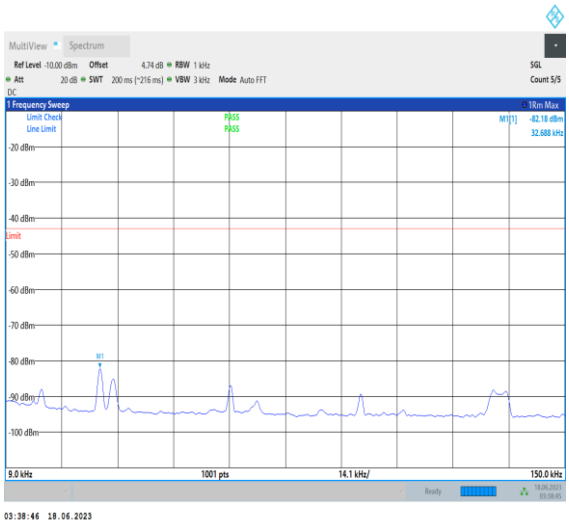

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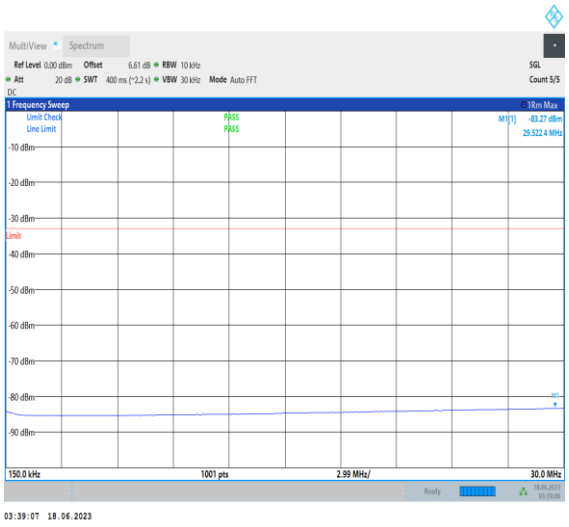

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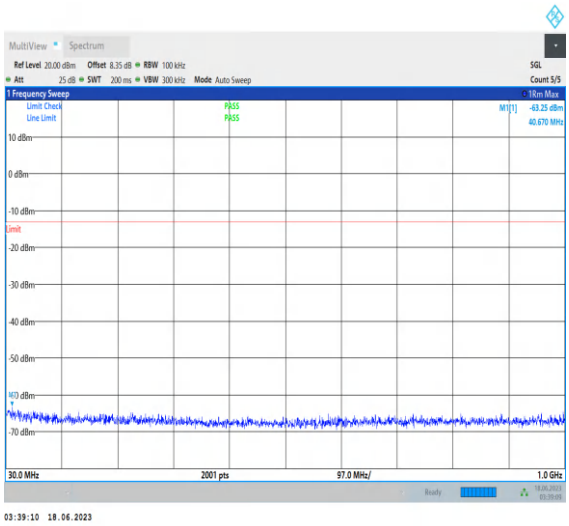

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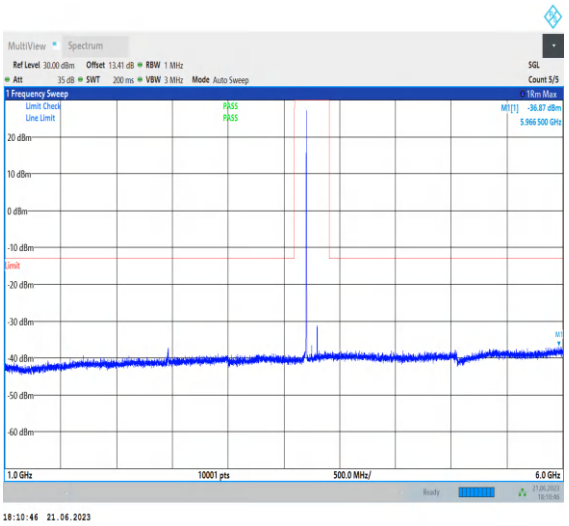

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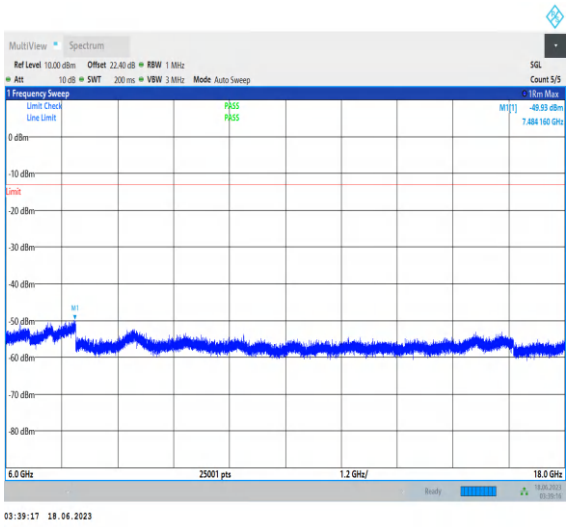

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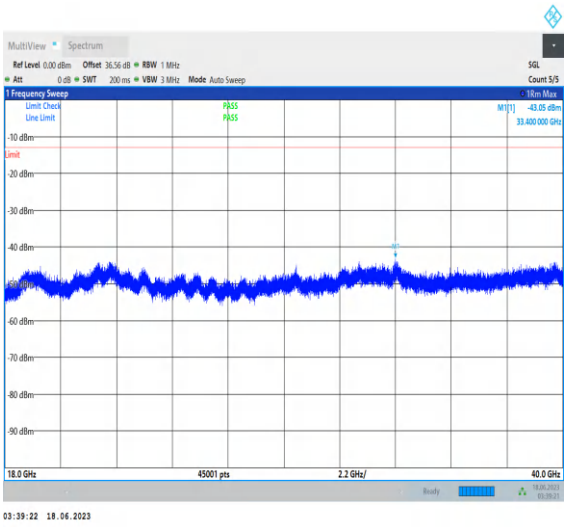

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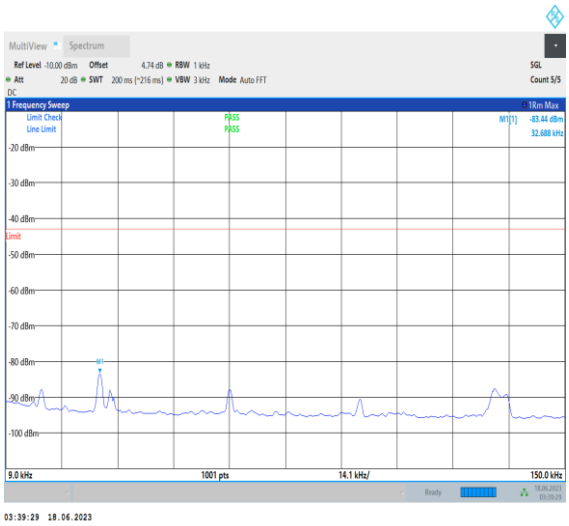

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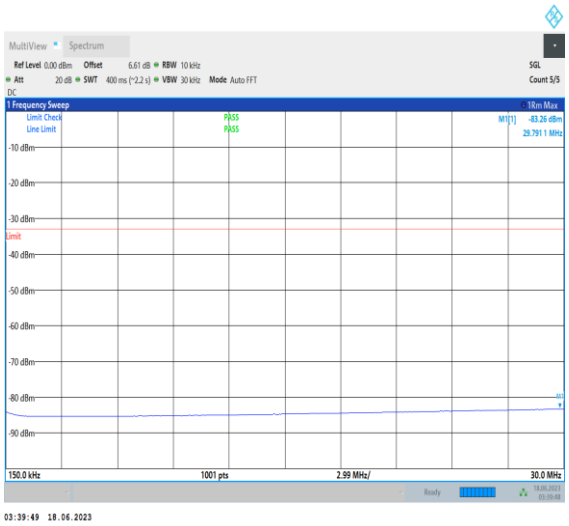

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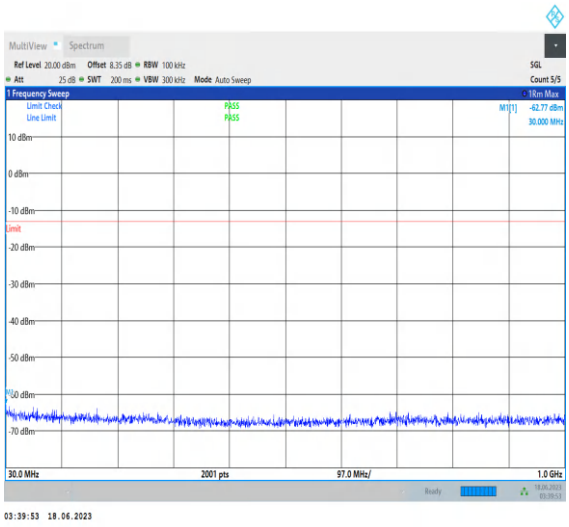

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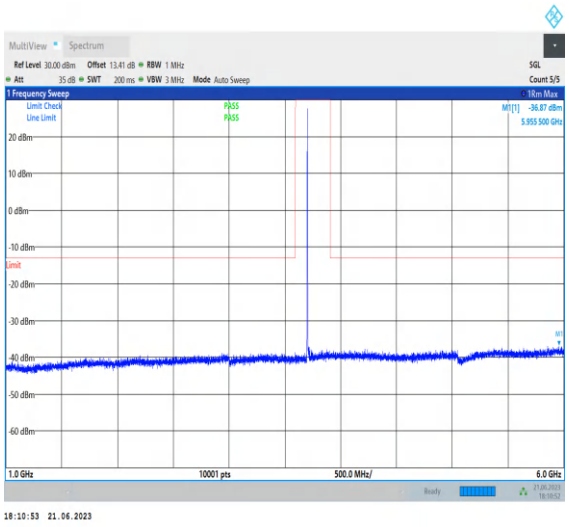

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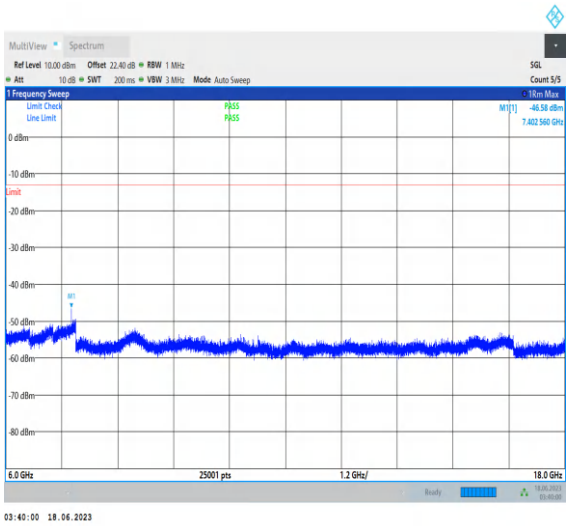	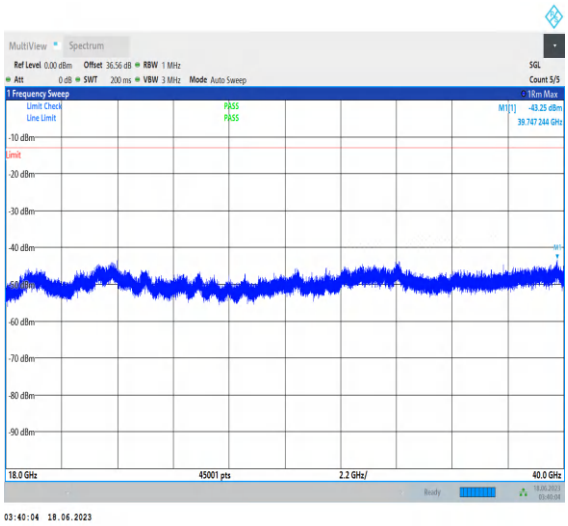
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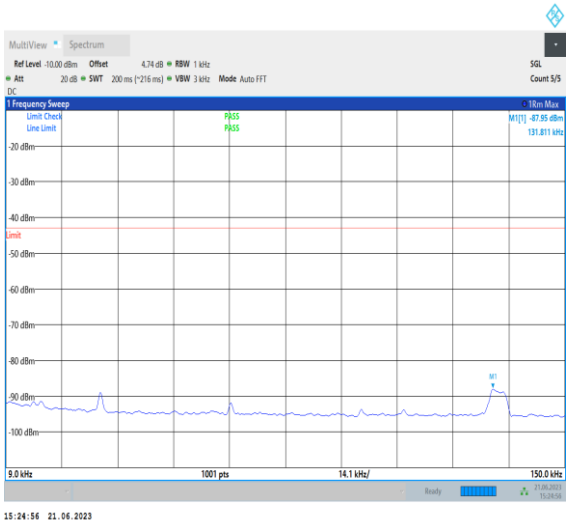
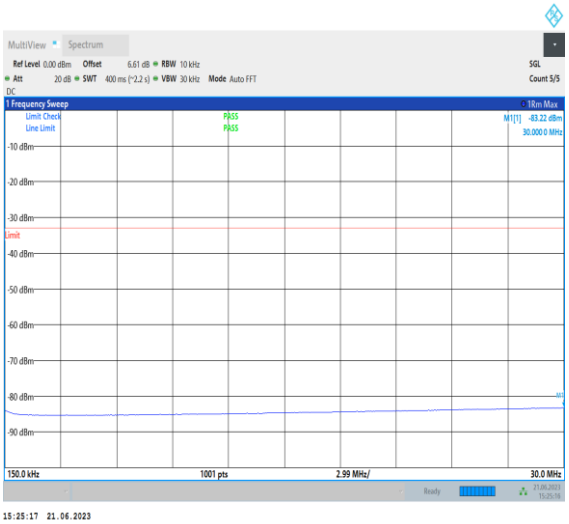
Test Graphs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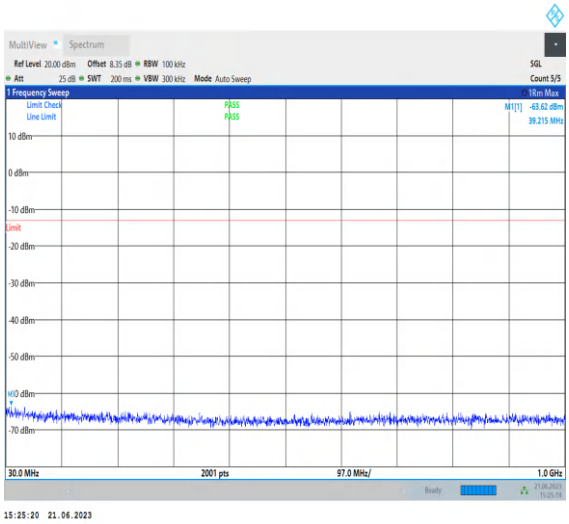	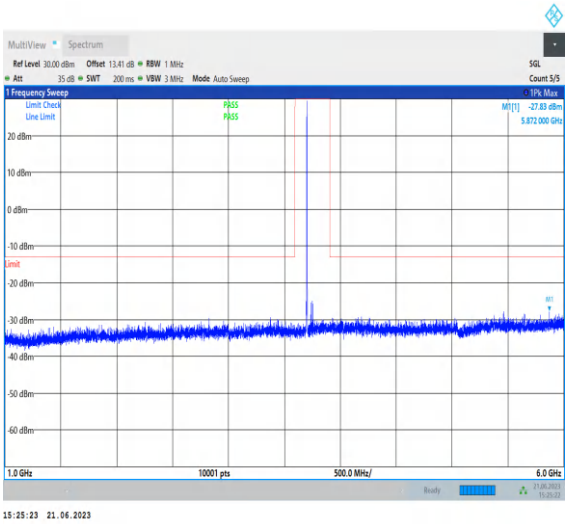
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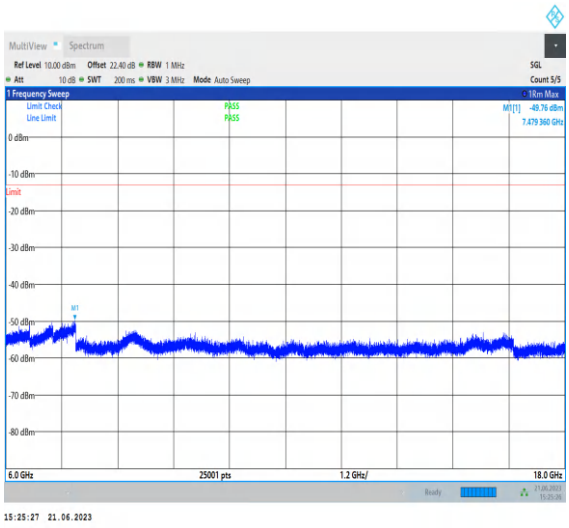

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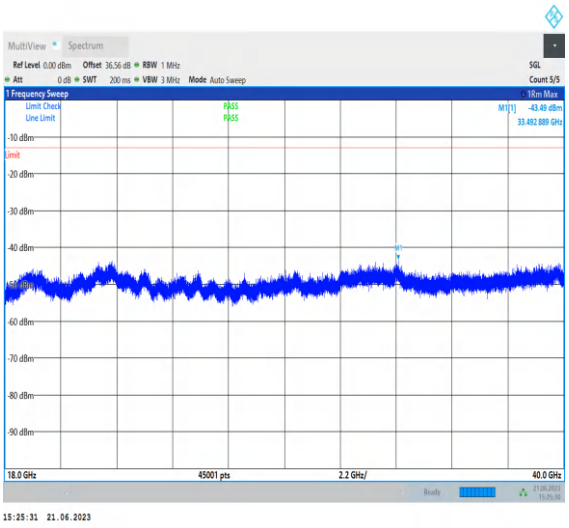

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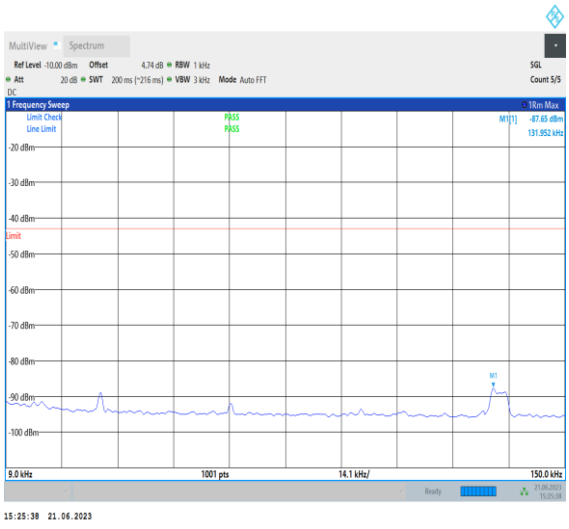

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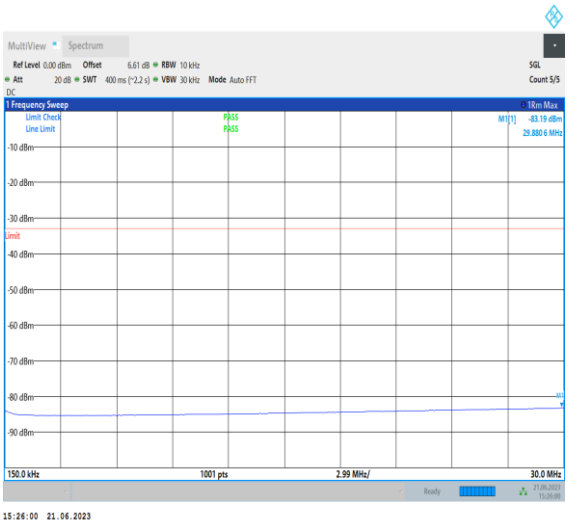

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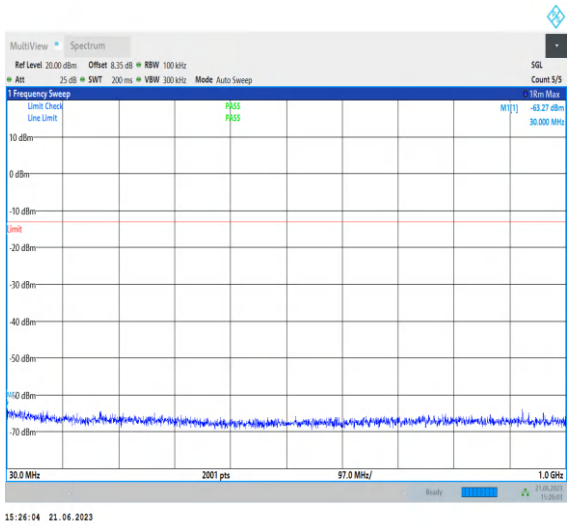

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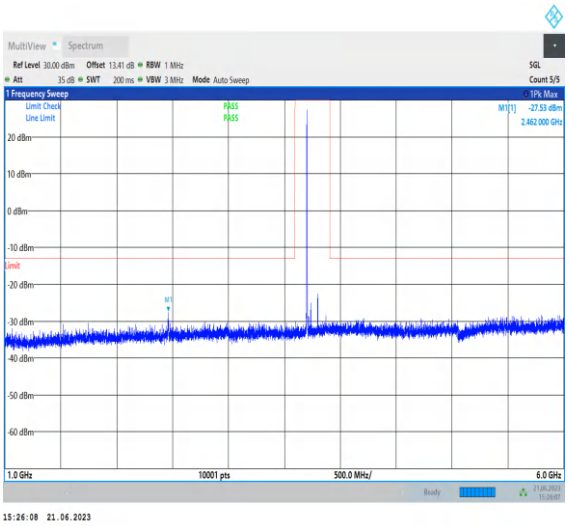

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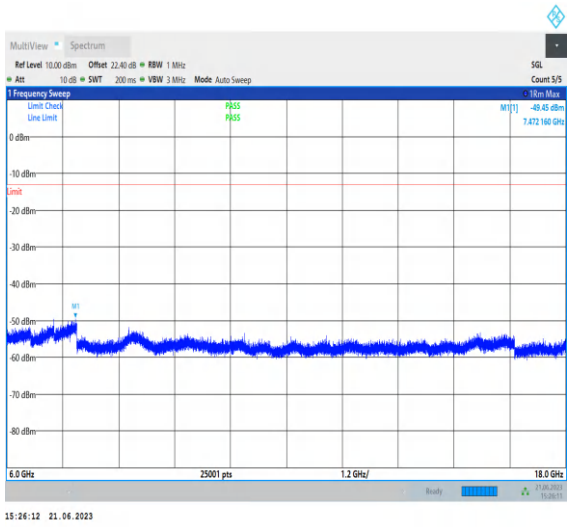

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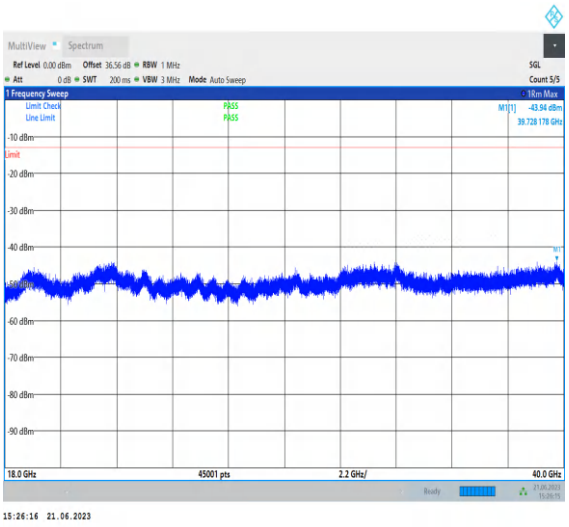

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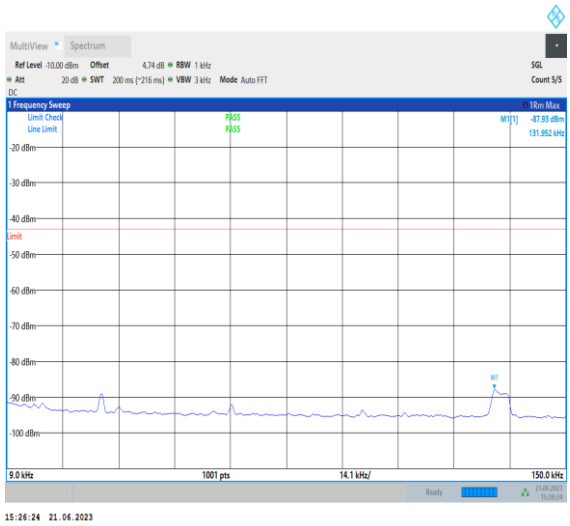

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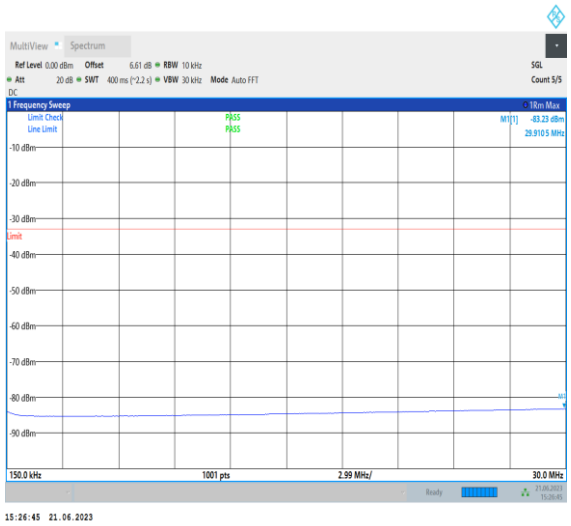

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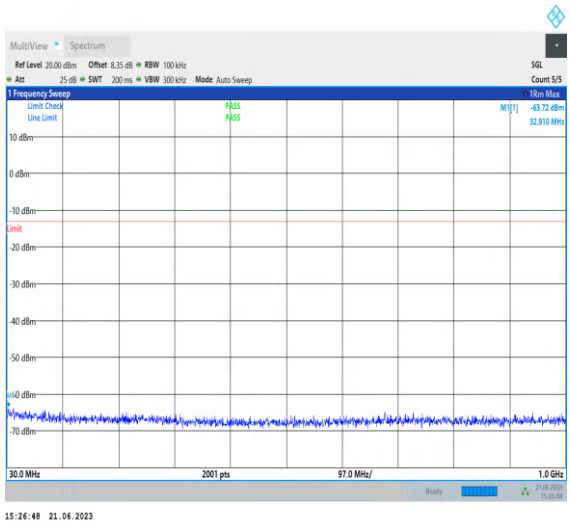

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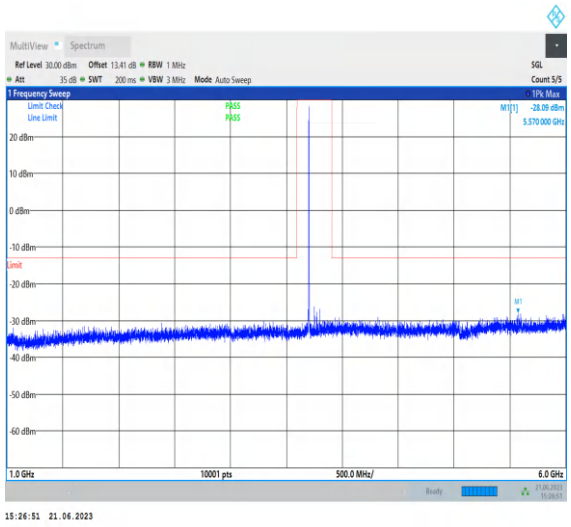

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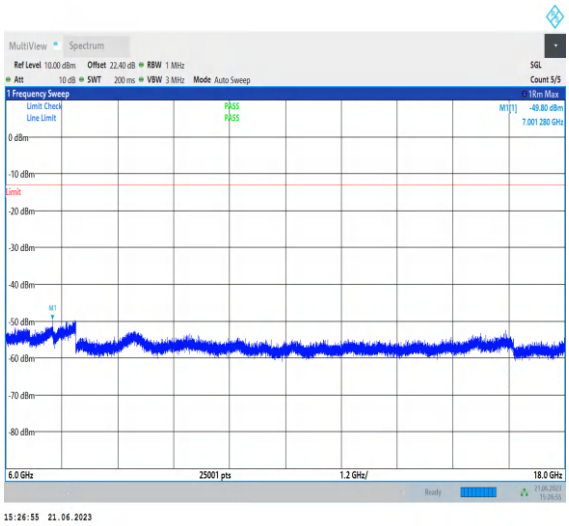	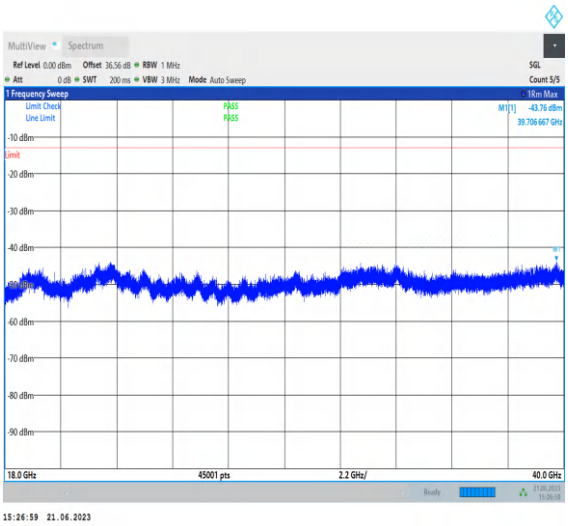
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Field Strength of Spurious Radiation(Worse)

Test Band = SA Band78_ TM1_100MHz
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7857.575	40.58	-42.67	36.74	-60.61	-13.00	47.61	215	74	Horizontal
2	8848.875	38.88	-41.03	36.38	-61.03	-13.00	48.03	133	180	Horizontal
3	9645.825	36.82	-39.33	37.53	-60.24	-13.00	47.24	261	74	Horizontal
4	10664.15	34.24	-37.68	38.53	-60.16	-13.00	47.16	154	194	Horizontal
5	11889.475	32.71	-37.33	38.79	-61.10	-13.00	48.10	175	330	Horizontal
6	14835.2	32.45	-35.05	41.23	-56.62	-13.00	43.62	189	120	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	8374.5	39.70	-41.50	36.61	-60.44	-13.00	47.44	174	3	Vertical
2	9322.675	37.79	-40.04	36.91	-60.59	-13.00	47.59	169	13	Vertical
3	10075.35	35.67	-38.87	38.24	-60.22	-13.00	47.22	182	314	Vertical
4	11106.9	33.57	-37.67	38.71	-60.65	-13.00	47.65	155	29	Vertical
5	12462.175	33.11	-36.97	38.94	-60.18	-13.00	47.18	124	225	Vertical
6	14502.85	31.74	-34.26	41.10	-56.68	-13.00	43.68	133	254	Vertical

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Test Band = SA Band78 ULMIMO_ TM1_100MHz
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	9270.35	37.39	-40.03	36.81	-61.09	-13.00	48.09	165	346	Horizontal
2	10236.35	35.45	-39.17	38.32	-60.66	-13.00	47.66	188	255	Horizontal
3	11223.05	34.05	-36.75	38.72	-59.23	-13.00	46.23	178	0	Horizontal
4	12826.15	32.82	-36.69	39.05	-60.08	-13.00	47.08	199	181	Horizontal
5	13975	31.62	-34.98	40.86	-57.76	-13.00	44.76	152	91	Horizontal
6	15369.375	31.33	-34.02	40.52	-57.42	-13.00	44.42	188	0	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	8035.25	39.30	-41.85	36.78	-61.03	-13.00	48.03	169	4	Vertical
2	8816.675	38.66	-41.10	36.39	-61.31	-13.00	48.31	185	301	Vertical
3	10006.35	35.87	-39.34	38.20	-60.52	-13.00	47.52	144	301	Vertical
4	10707.275	34.61	-37.56	38.55	-59.66	-13.00	46.66	128	256	Vertical
5	12255.75	33.36	-36.85	38.88	-59.87	-13.00	46.87	175	30	Vertical
6	13687.5	32.78	-36.00	40.34	-58.14	-13.00	45.14	188	90	Vertical

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Test Band = NSA 2A-N78A_ 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	8647.625	39.57	-41.10	36.48	-60.32	-13.00	47.32	126	330	Horizontal
2	9608.45	37.22	-39.22	37.46	-59.81	-13.00	46.81	254	118	Horizontal
3	10468.65	35.15	-38.75	38.43	-60.42	-13.00	47.42	178	239	Horizontal
4	11485.825	33.00	-36.65	38.75	-60.16	-13.00	47.16	186	59	Horizontal
5	12712.875	32.90	-36.80	39.01	-60.15	-13.00	47.15	269	0	Horizontal
6	13966.95	32.57	-35.04	40.84	-56.89	-13.00	43.89	211	118	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	8371.05	39.75	-41.51	36.61	-60.41	-13.00	47.41	162	3	Vertical
2	9569.35	36.12	-39.43	37.38	-61.19	-13.00	48.19	148	44	Vertical
3	10698.075	34.06	-37.50	38.55	-60.15	-13.00	47.15	172	104	Vertical
4	12064.275	33.36	-37.19	38.82	-60.27	-13.00	47.27	199	253	Vertical
5	13467.275	33.02	-36.46	39.94	-58.76	-13.00	45.76	288	74	Vertical
6	15388.35	32.07	-34.04	40.48	-56.75	-13.00	43.75	154	179	Vertical

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Member of the SGS Group (SGS SA)

Test Band = NSA 5A-N78A_ 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	8701.675	39.05	-41.34	36.45	-61.10	-13.00	48.10	166	0	Horizontal
2	9638.925	36.28	-39.31	37.51	-60.78	-13.00	47.78	258	285	Horizontal
3	10586.525	34.67	-38.11	38.49	-60.21	-13.00	47.21	147	196	Horizontal
4	11579.55	32.84	-36.88	38.76	-60.55	-13.00	47.55	186	15	Horizontal
5	12830.75	33.29	-36.70	39.05	-59.62	-13.00	46.62	259	0	Horizontal
6	15071.525	31.77	-34.46	41.15	-56.80	-13.00	43.80	172	165	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	8320.45	39.85	-41.77	36.64	-60.54	-13.00	47.54	163	104	Vertical
2	9421.575	36.76	-39.93	37.10	-61.33	-13.00	48.33	254	16	Vertical
3	10699.225	34.12	-37.49	38.55	-60.08	-13.00	47.08	175	344	Vertical
4	11447.875	33.59	-37.03	38.74	-59.96	-13.00	46.96	188	90	Vertical
5	12379.95	33.29	-36.92	38.91	-59.98	-13.00	46.98	142	209	Vertical
6	13913.475	32.66	-35.46	40.74	-57.32	-13.00	44.32	109	164	Vertical

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Member of the SGS Group (SGS SA)

Test Band = NSA 7A-N78A_ 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	8400.95	39.76	-41.37	36.60	-60.27	-13.00	47.27	211	0	Horizontal
2	9827.525	36.11	-39.10	37.87	-60.38	-13.00	47.38	123	0	Horizontal
3	11147.725	33.89	-37.20	38.71	-59.86	-13.00	46.86	148	331	Horizontal
4	12360.4	33.20	-36.85	38.91	-60.00	-13.00	47.00	172	105	Horizontal
5	13765.7	33.33	-36.16	40.48	-57.61	-13.00	44.61	165	316	Horizontal
6	15369.95	32.01	-34.02	40.52	-56.74	-13.00	43.74	199	182	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	8407.275	39.71	-41.40	36.60	-60.35	-13.00	47.35	166	121	Vertical
2	9870.075	36.04	-39.16	37.95	-60.42	-13.00	47.42	125	360	Vertical
3	10876.9	33.71	-37.96	38.64	-60.87	-13.00	47.87	147	90	Vertical
4	11768.725	32.92	-36.85	38.78	-60.42	-13.00	47.42	153	90	Vertical
5	12791.65	33.46	-36.64	39.04	-59.40	-13.00	46.40	211	182	Vertical
6	14813.925	32.17	-35.02	41.23	-56.88	-13.00	43.88	136	135	Vertical

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Member of the SGS Group (SGS SA)

Test Band = NSA 41A-N78A_ 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	8410.15	39.92	-41.41	36.59	-60.16	-13.00	47.16	244	59	Horizontal
2	8974.225	38.33	-40.88	36.31	-61.50	-13.00	48.50	126	316	Horizontal
3	10689.45	34.24	-37.54	38.54	-60.02	-13.00	47.02	199	179	Horizontal
4	11217.875	33.98	-36.71	38.72	-59.27	-13.00	46.27	175	1	Horizontal
5	12776.125	33.22	-36.67	39.03	-59.68	-13.00	46.68	126	0	Horizontal
6	14392.45	32.19	-35.14	41.06	-57.15	-13.00	44.15	132	300	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	8392.9	39.29	-41.41	36.60	-60.77	-13.00	47.77	126	104	Vertical
2	9414.1	37.10	-39.93	37.09	-61.00	-13.00	48.00	153	44	Vertical
3	10369.75	35.21	-38.80	38.38	-60.46	-13.00	47.46	251	13	Vertical
4	11275.95	33.94	-37.08	38.73	-59.67	-13.00	46.67	148	299	Vertical
5	12336.25	33.52	-36.77	38.90	-59.61	-13.00	46.61	175	240	Vertical
6	14436.15	32.25	-34.77	41.07	-56.71	-13.00	43.71	199	133	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	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-17.20	0.00	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-10.20	0.00	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-6.30	0.00	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VN	NT	-11.00	0.00	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VL	NT	-20.10	-0.01	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VH	NT	-9.30	0.00	PASS

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Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-17.500000	-0.004667	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-11.500000	-0.003067	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-6.500000	-0.001733	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-16.000000	-0.004267	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-20.300000	-0.005413	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-5.100000	-0.001360	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-14.900000	-0.003973	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-7.500000	-0.002000	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-21.000000	-0.005600	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-30	-11.500000	-0.003067	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-20	-17.200000	-0.004587	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-10	-13.600000	-0.003627	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	0	-9.300000	-0.002480	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	10	-10.400000	-0.002773	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	20	-23.700000	-0.006320	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	30	-8.800000	-0.002347	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	40	-12.900000	-0.003440	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	50	-19.500000	-0.005200	PASS

---End of Attachment---

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