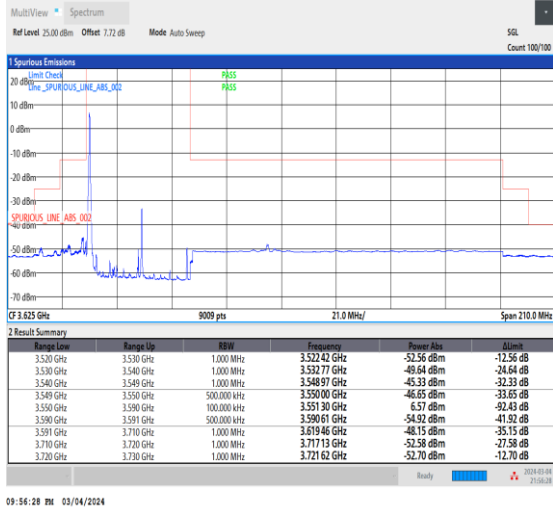


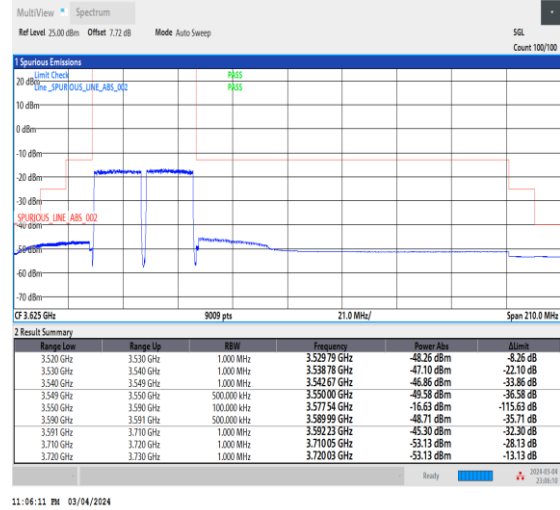
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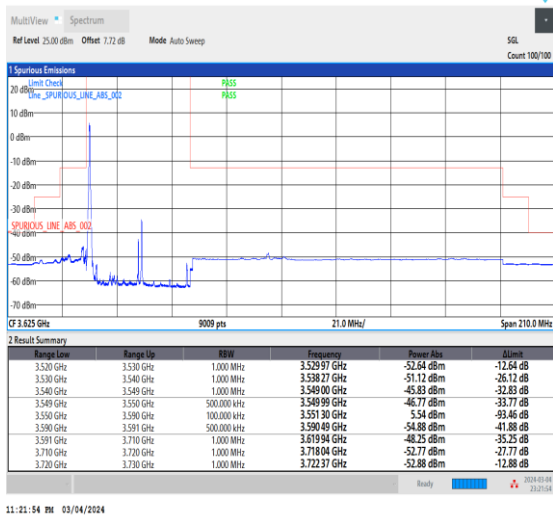
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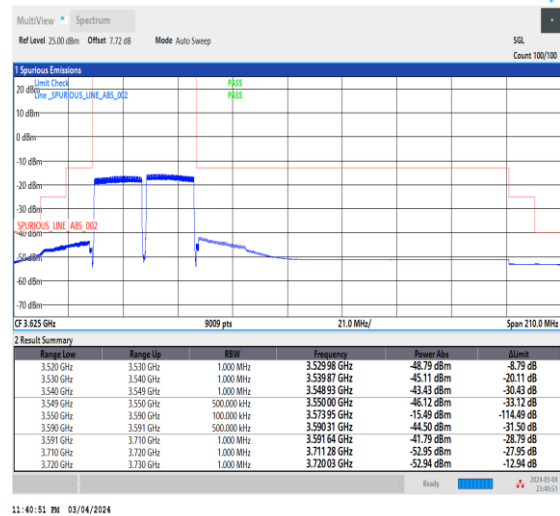
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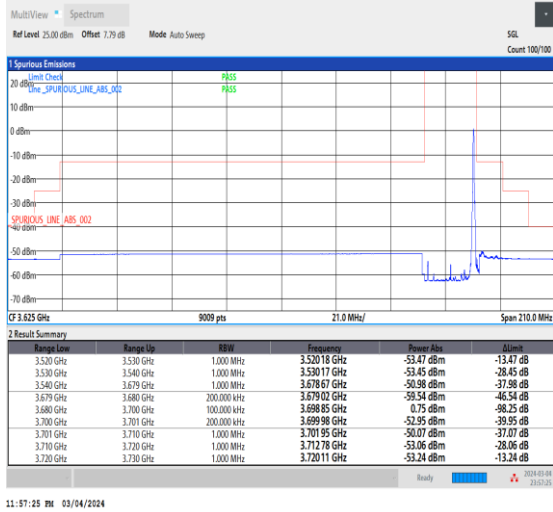
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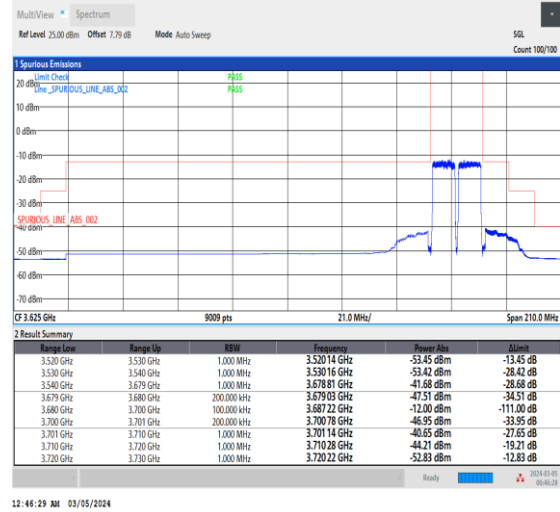
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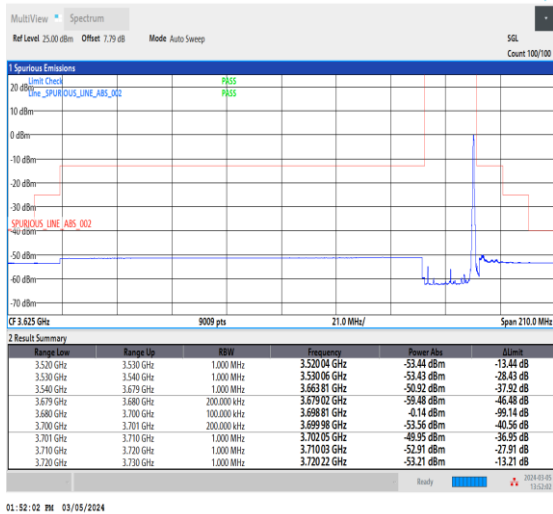
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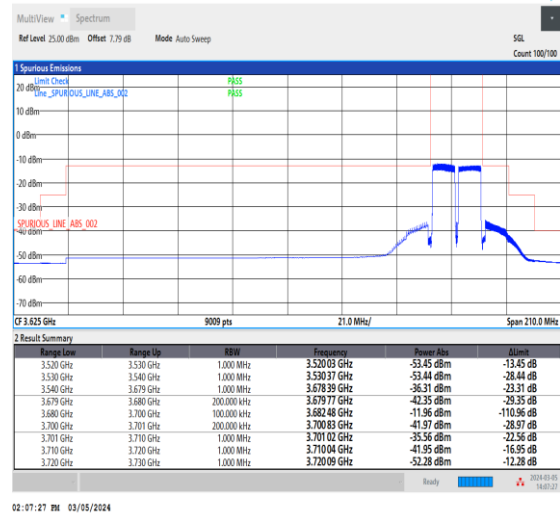
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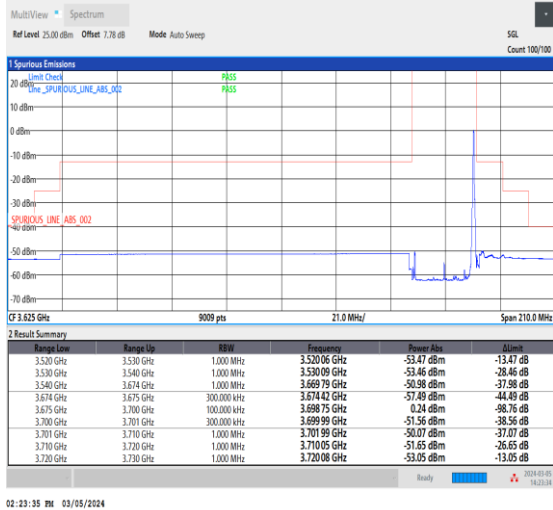
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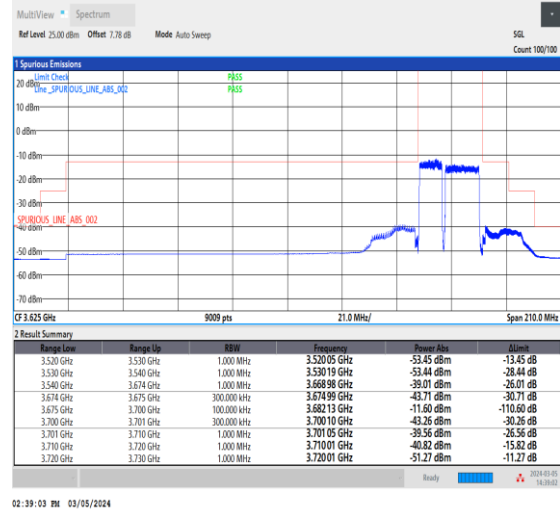
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Rev.: 01

Page: 57 of 73



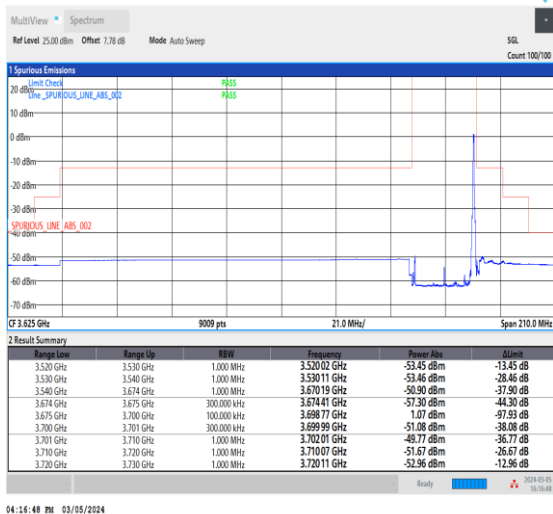
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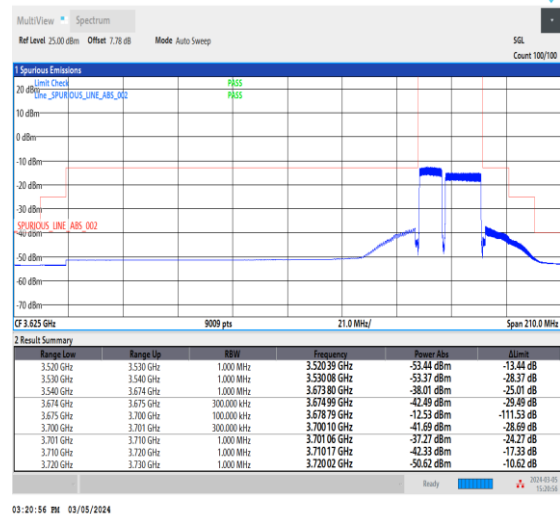
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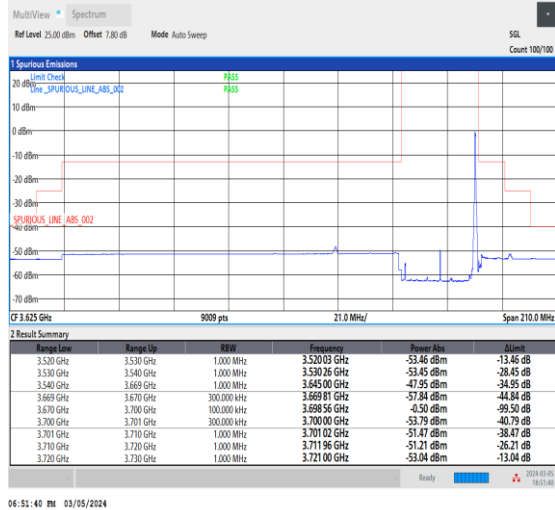
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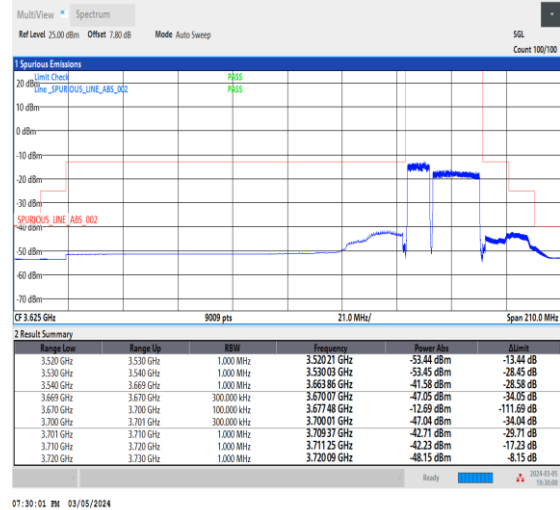
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Rev.: 01

Page: 58 of 73



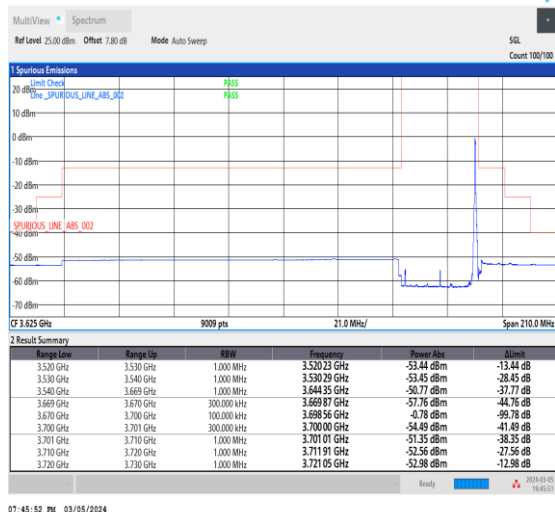
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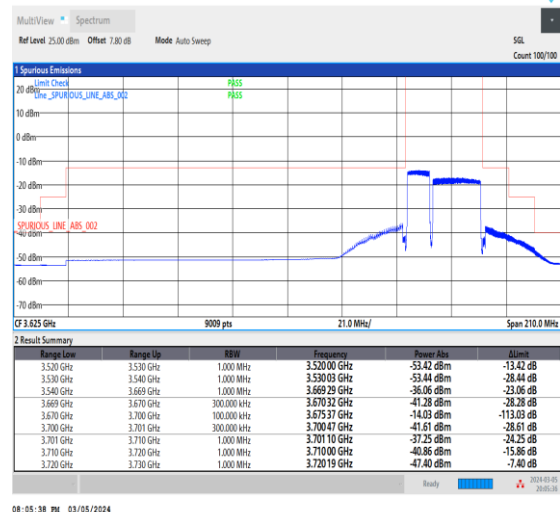
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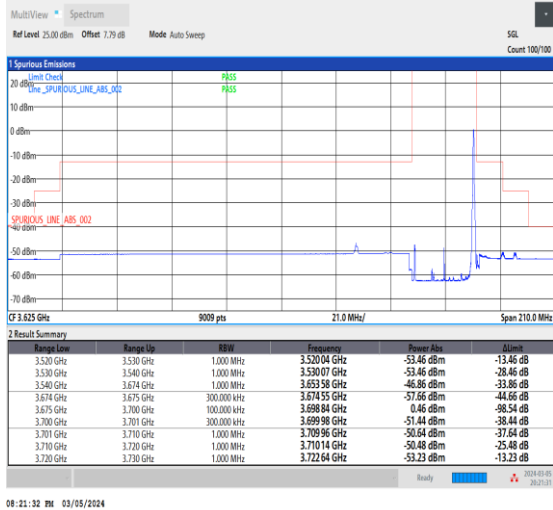
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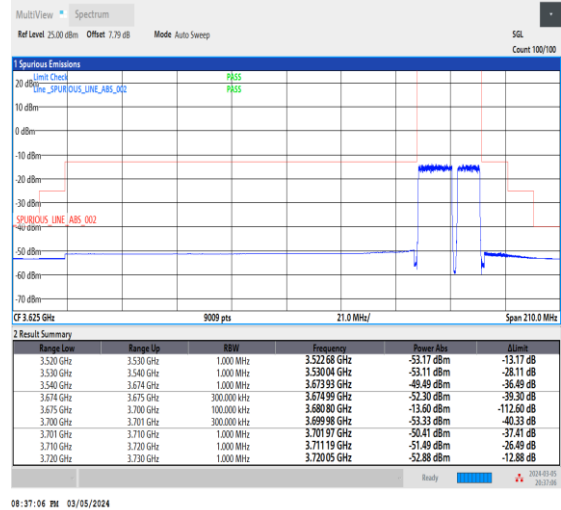
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Rev.: 01

Page: 59 of 73



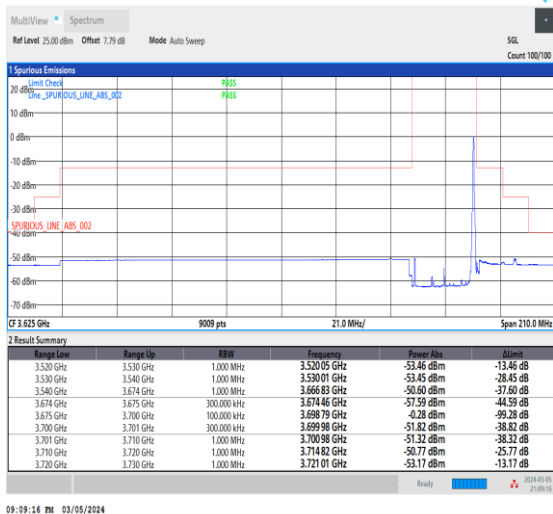
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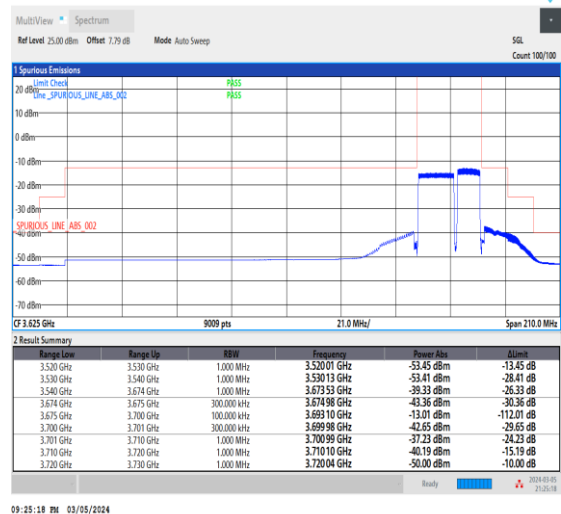
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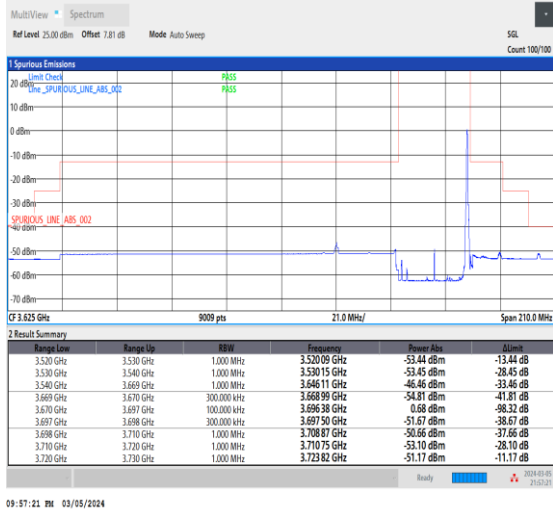
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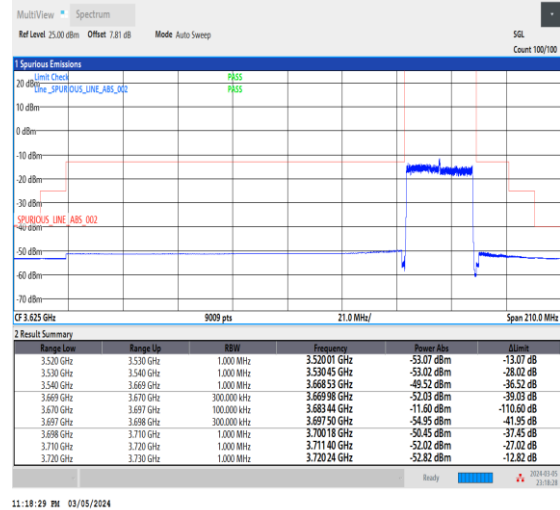
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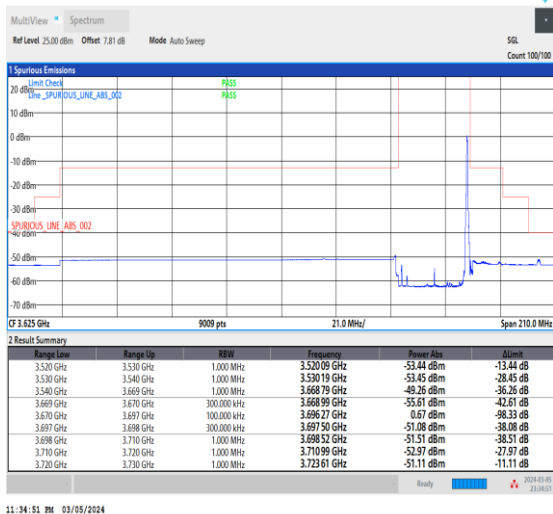
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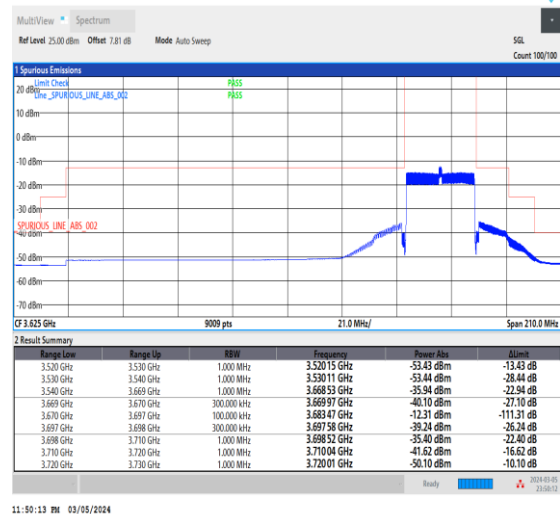
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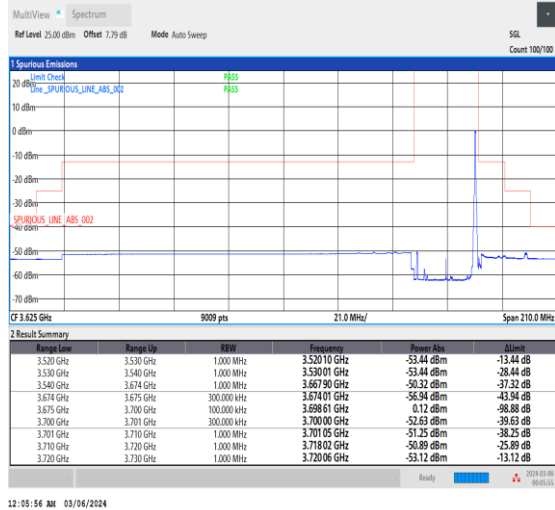
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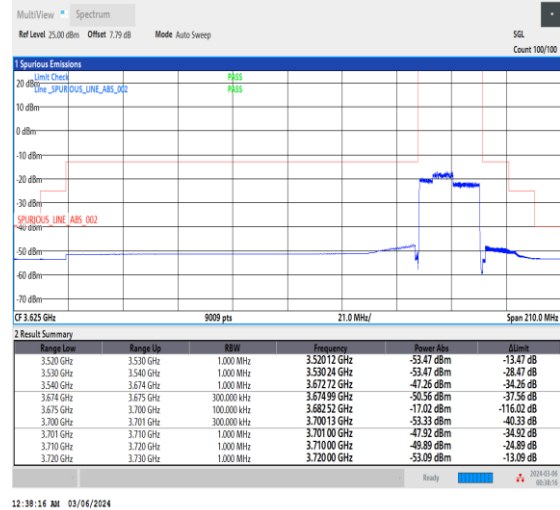
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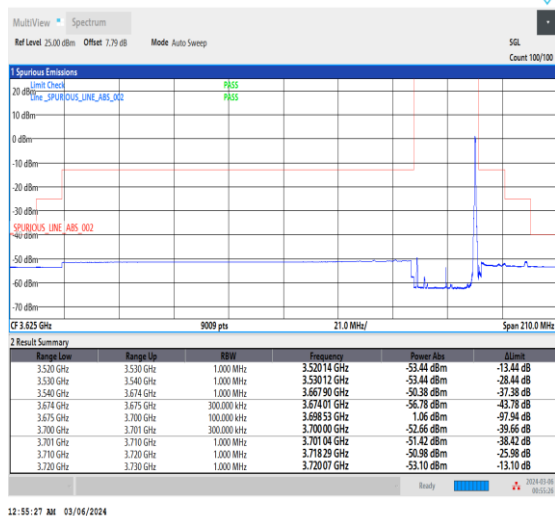
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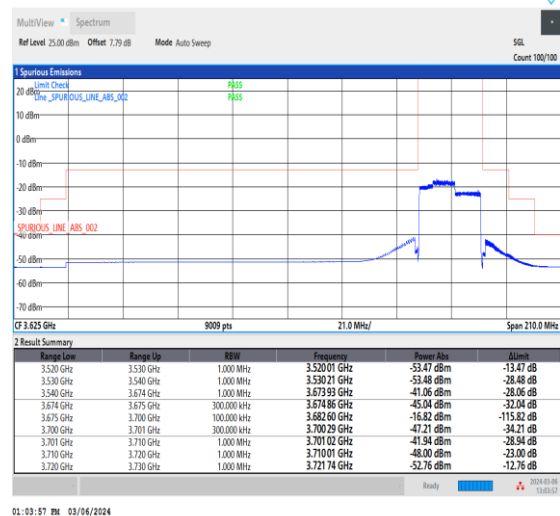
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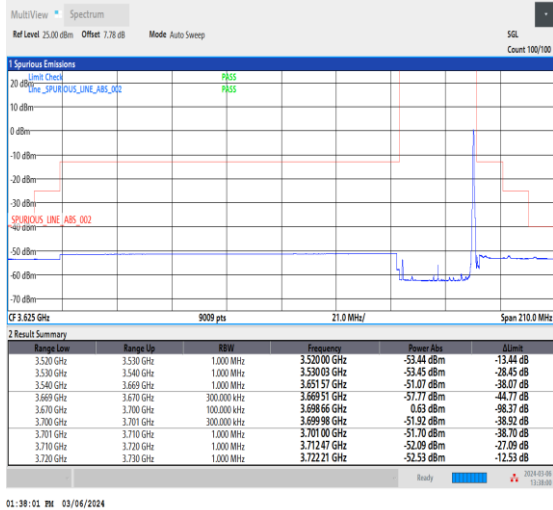
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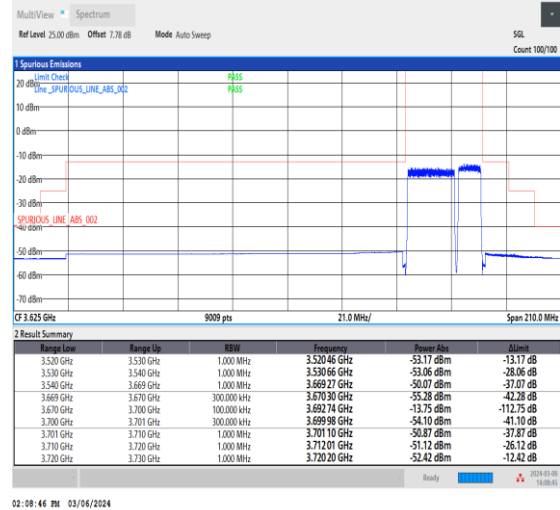
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Rev.: 01

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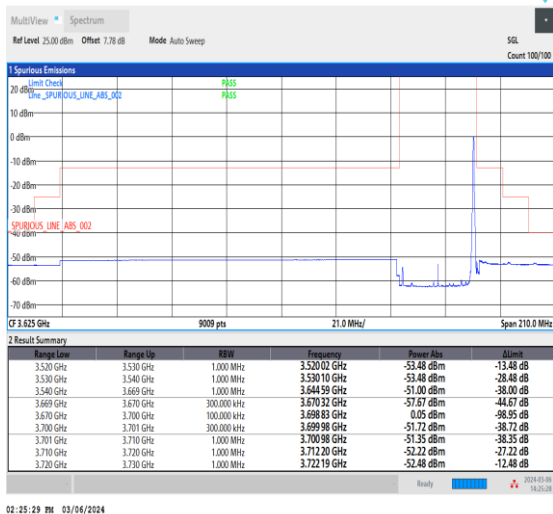
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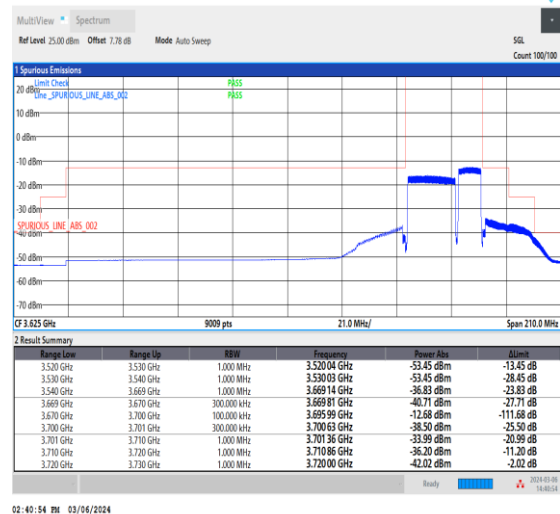
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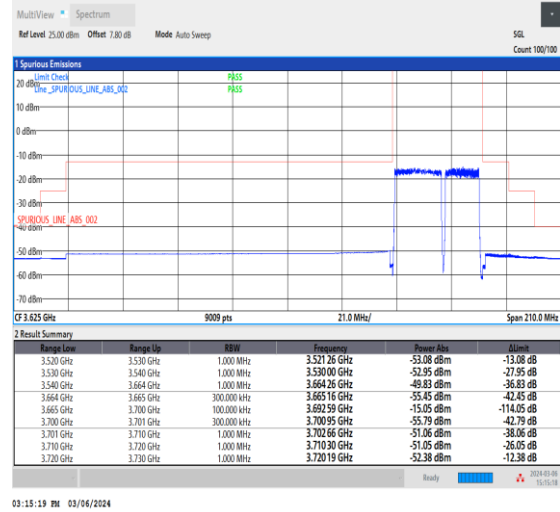
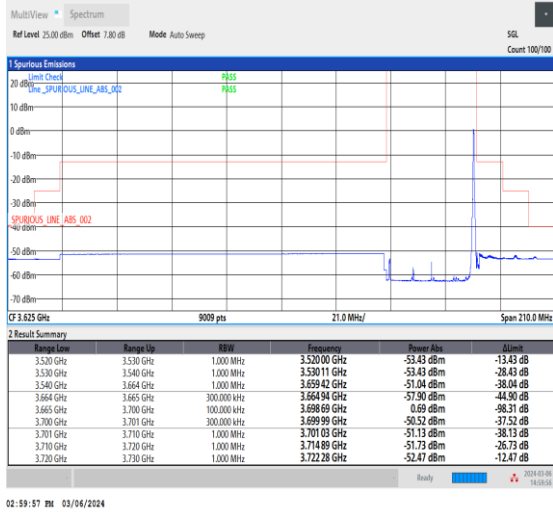
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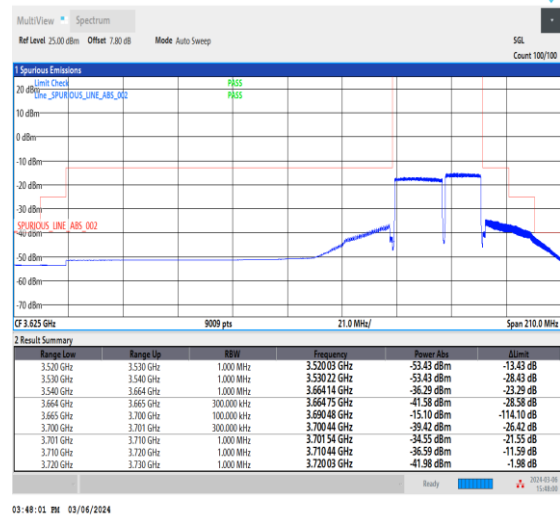
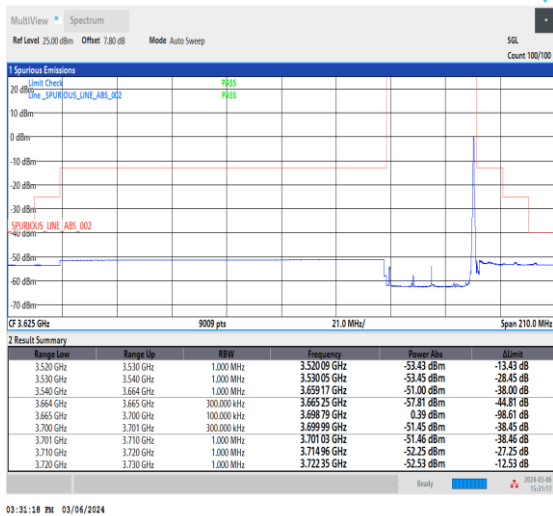
Rev.: 01

Page: 63 of 73



NTNV_CA_n48B_PC3_30+30_20+15_H+H_TID2_1_#1

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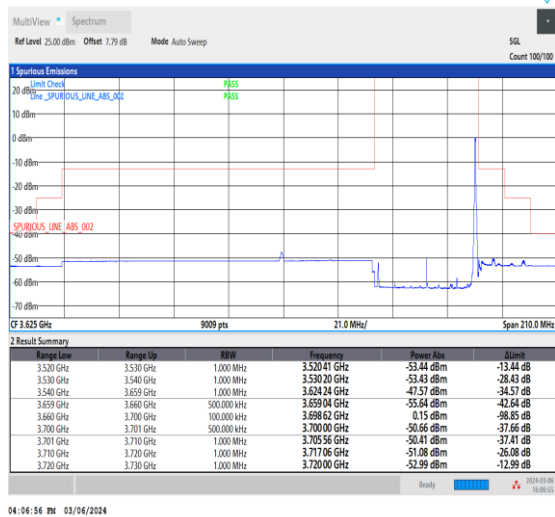
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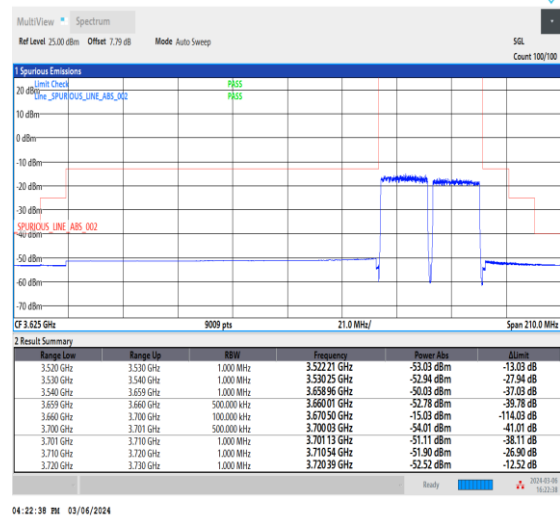
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Rev.: 01

Page: 64 of 73



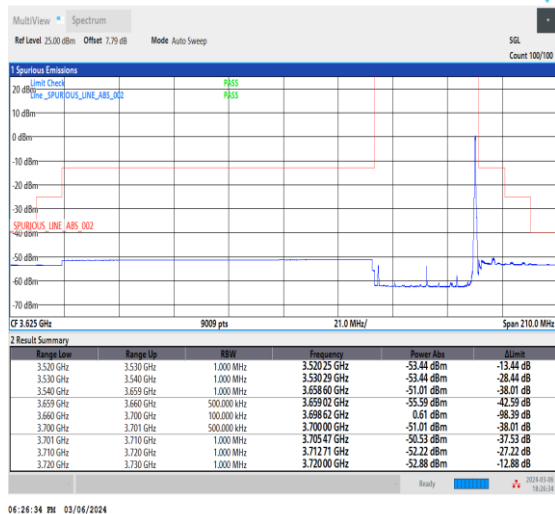
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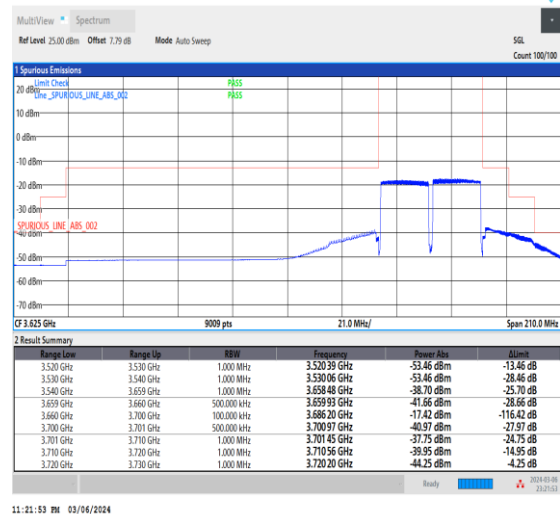
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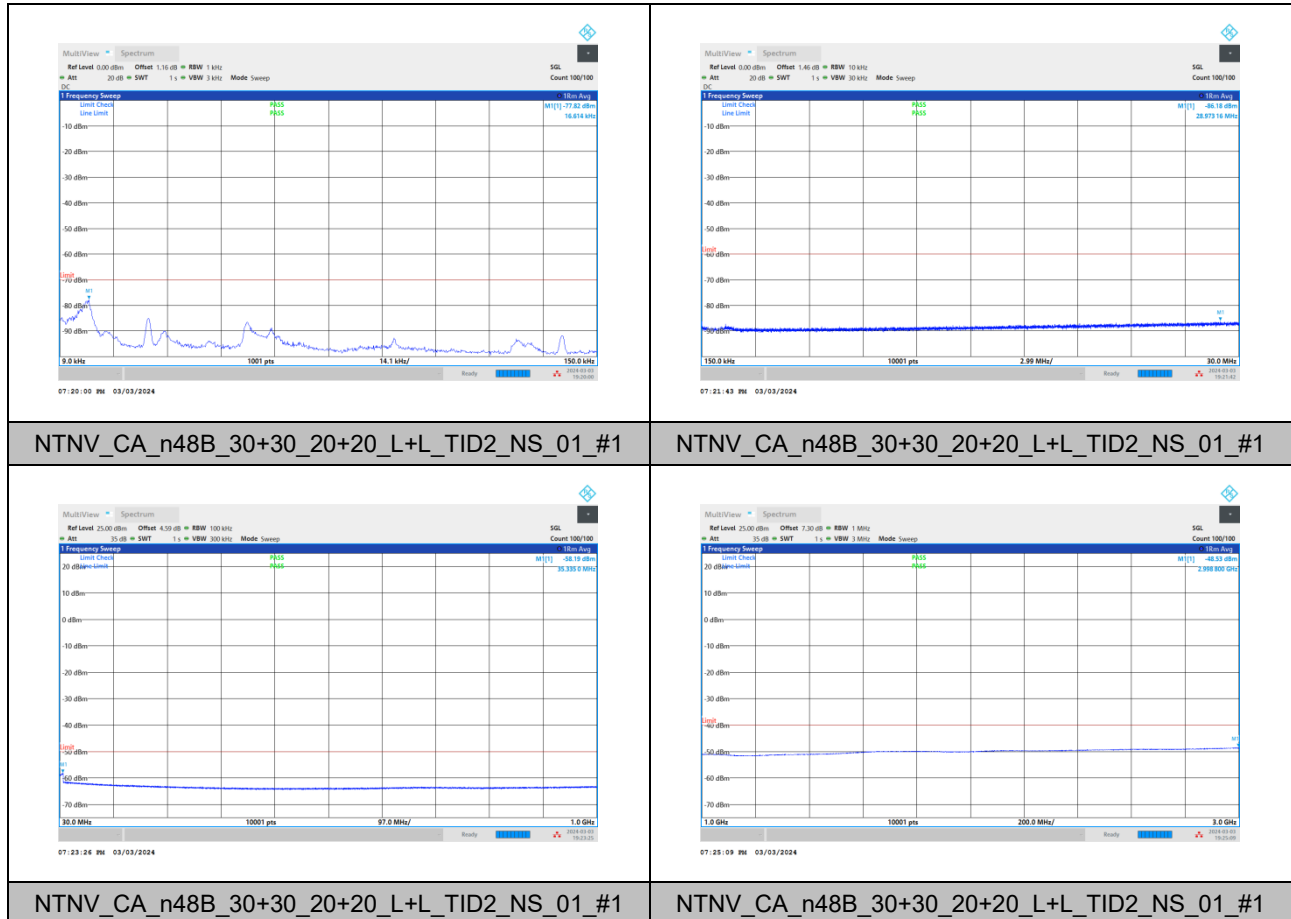
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Rev.: 01
Page: 65 of 73

Conducted Spurious Emission for SA ULCA

Test Graphs



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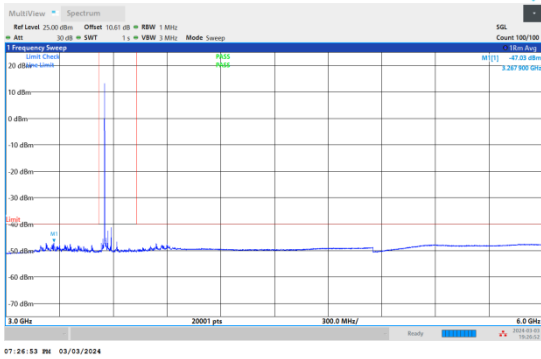
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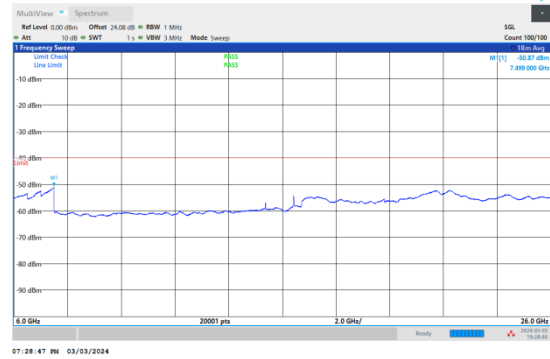
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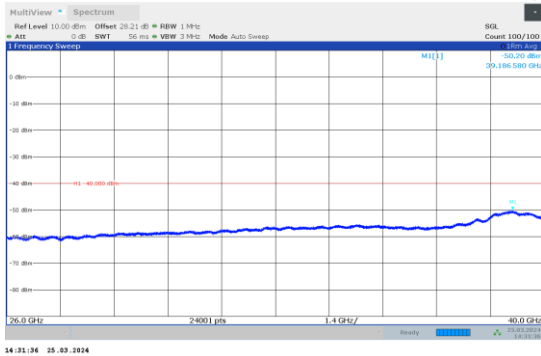
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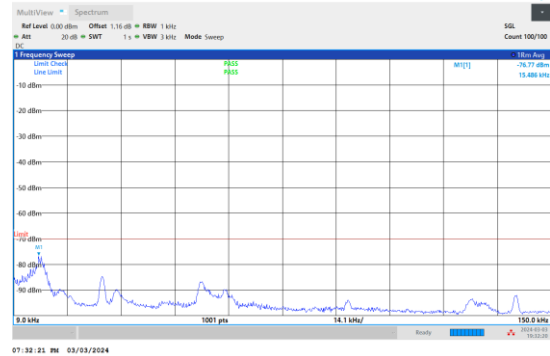
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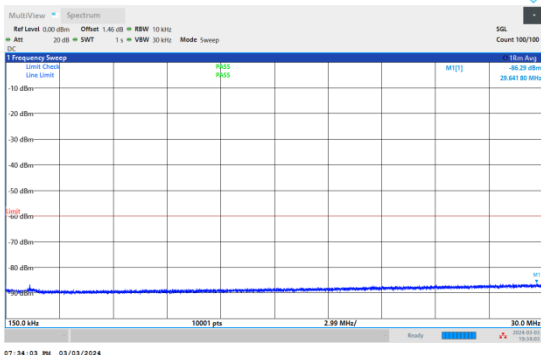
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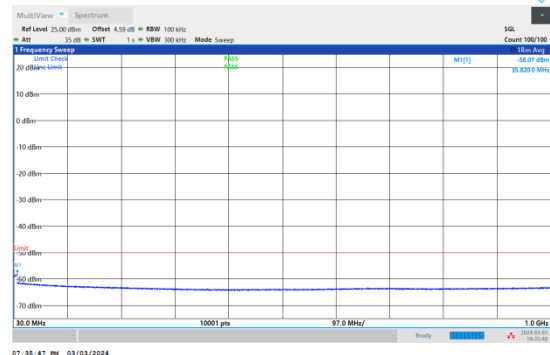
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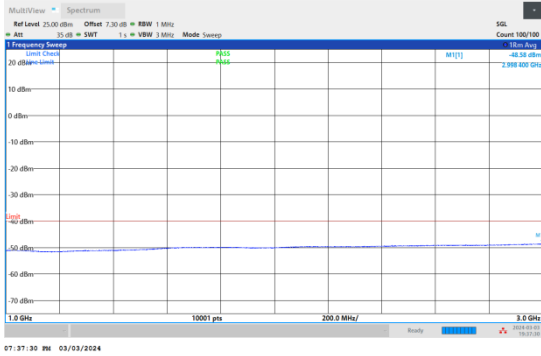
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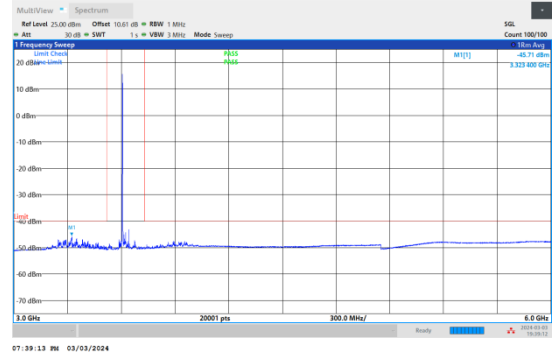
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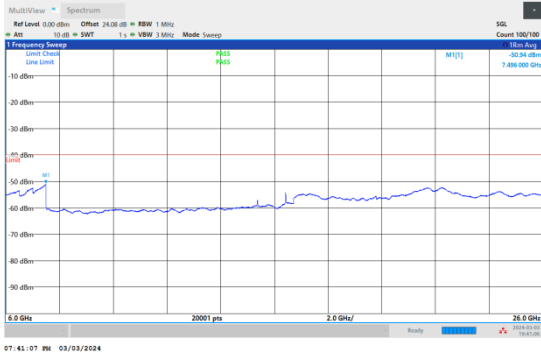
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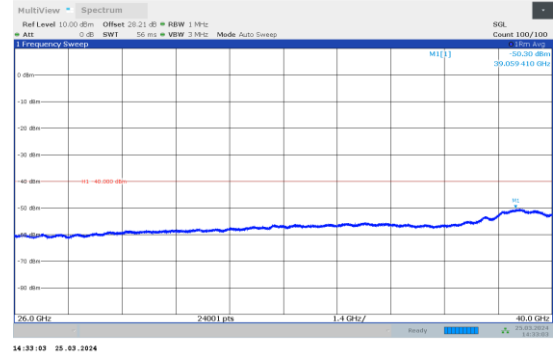
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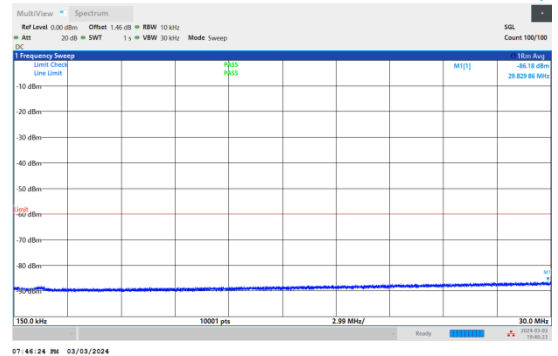
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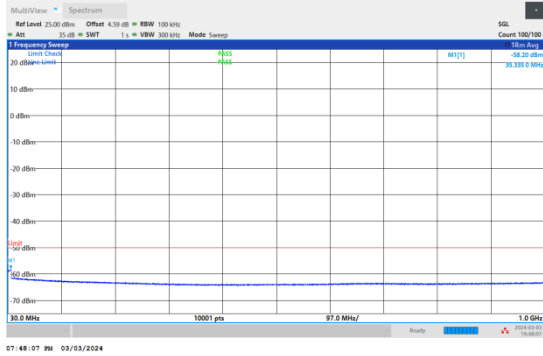
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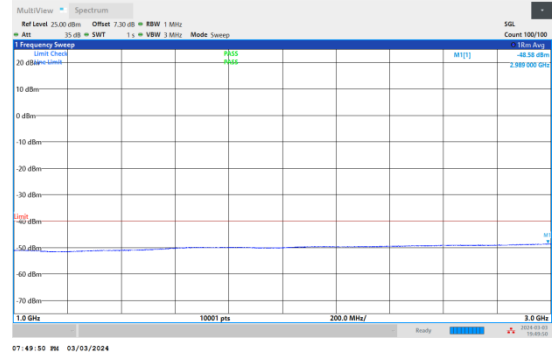
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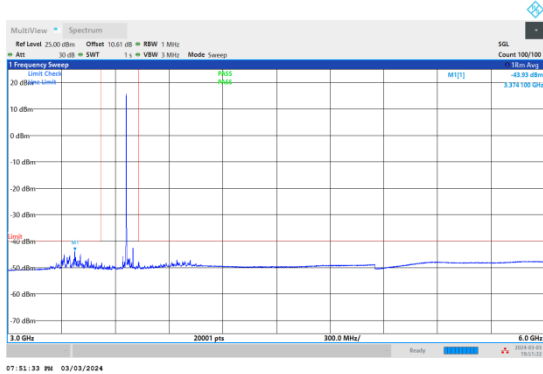
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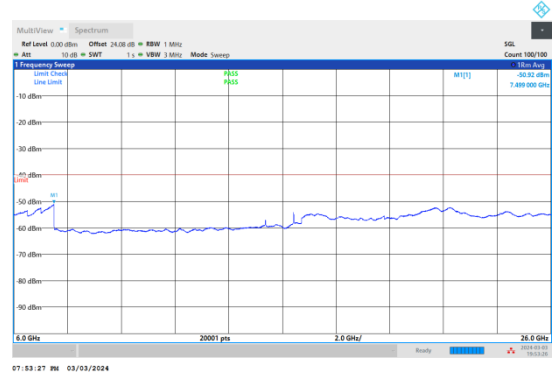
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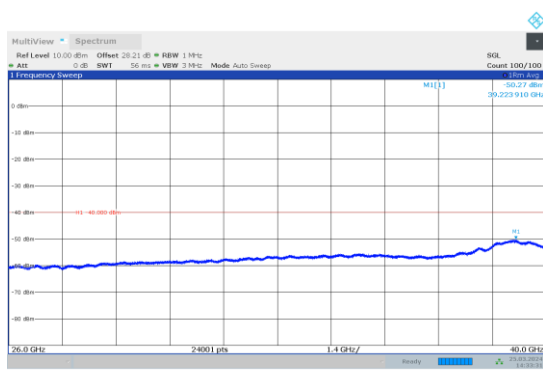
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 Rev.: 01
 Page: 69 of 73

Field Strength of Spurious Radiation

Test Band = NR CA n48B_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7802.8542	42.99	-44.90	36.44	-60.74	-40.00	20.74	Horizontal
2	9296.8958	41.57	-42.94	37.87	-58.76	-40.00	18.76	Horizontal
3	11331.9167	39.02	-40.21	39.33	-57.12	-40.00	17.12	Horizontal
4	14044.4792	36.96	-38.96	40.86	-56.40	-40.00	16.40	Horizontal
5	14996.1042	35.39	-37.91	40.10	-57.68	-40.00	17.68	Horizontal
6	17962.625	34.74	-37.08	45.06	-52.54	-40.00	12.54	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7234.5625	43.55	-45.64	36.16	-61.19	-40.00	21.19	Vertical
2	8508.1875	41.52	-43.72	36.91	-60.55	-40.00	20.55	Vertical
3	9566.6667	40.37	-42.04	38.11	-58.82	-40.00	18.82	Vertical
4	11140.7292	38.63	-40.04	39.37	-57.30	-40.00	17.30	Vertical
5	13402.875	37.51	-39.04	39.53	-57.26	-40.00	17.26	Vertical
6	17462.375	34.78	-36.53	41.86	-55.15	-40.00	15.15	Vertical



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Report No.: SEWM2311000473RG06
 Rev.: 01
 Page: 70 of 73

Test Band = NR CA n48B_ TM1
 Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7231.2083	43.51	-45.62	36.15	-61.22	-40.00	21.22	Horizontal
2	8339.5208	42.19	-44.48	36.68	-60.88	-40.00	20.88	Horizontal
3	9283.9583	41.65	-42.94	37.86	-58.70	-40.00	18.70	Horizontal
4	11905.9583	38.12	-39.83	39.22	-57.75	-40.00	17.75	Horizontal
5	13922.7708	36.68	-38.52	40.72	-56.38	-40.00	16.38	Horizontal
6	17623.375	35.08	-36.99	42.89	-54.28	-40.00	14.28	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7246.0625	43.52	-45.71	36.19	-61.26	-40.00	21.26	Vertical
2	8784.6667	41.59	-43.83	37.30	-60.21	-40.00	20.21	Vertical
3	11397.5625	37.92	-39.73	39.32	-57.75	-40.00	17.75	Vertical
4	13726.3125	37.03	-38.10	40.27	-56.06	-40.00	16.06	Vertical
5	14620.9167	36.34	-38.14	40.40	-56.66	-40.00	16.66	Vertical
6	17961.1875	35.24	-37.09	45.05	-52.06	-40.00	12.06	Vertical



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Report No.: SEWM2311000473RG06
 Rev.: 01
 Page: 71 of 73

Test Band = NR CA n48B_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7183.7708	43.56	-45.56	36.04	-61.22	-40.00	21.22	Horizontal
2	9354.875	41.26	-42.87	37.92	-58.95	-40.00	18.95	Horizontal
3	11154.1458	38.30	-40.02	39.37	-57.61	-40.00	17.61	Horizontal
4	13904.0833	36.84	-38.37	40.68	-56.11	-40.00	16.11	Horizontal
5	16571.6042	35.93	-37.43	38.60	-58.16	-40.00	18.16	Horizontal
6	17969.8125	35.14	-37.06	45.11	-52.08	-40.00	12.08	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7351.9583	43.70	-45.78	36.44	-60.89	-40.00	20.89	Vertical
2	8803.3542	42.00	-43.85	37.32	-59.78	-40.00	19.78	Vertical
3	10063.5625	39.47	-41.67	38.56	-58.90	-40.00	18.90	Vertical
4	11743.5208	37.82	-39.60	39.25	-57.79	-40.00	17.79	Vertical
5	13899.2917	36.70	-38.34	40.67	-56.23	-40.00	16.23	Vertical
6	17957.8333	35.14	-37.10	45.03	-52.19	-40.00	12.19	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Report No.: SEWM2311000473RG06
Rev.: 01
Page: 72 of 73

Frequency Stability for SA ULCA

Test Result

Frequency Error VS. Voltage

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N48B	30	20+20	DFT-PI2BPSK	M	Outer_Full	VH	NT	1.600000	0.000301	PASS
N48B	30	20+20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-0.100000	-0.000040	PASS
N48B	30	20+20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-4.000000	-0.001101	PASS
N48B	30	20+20	CP-QPSK	M	Outer_Full	VH	NT	-4.400000	-0.001248	PASS
N48B	30	20+20	CP-QPSK	M	Outer_Full	VN	NT	-17.300000	-0.004606	PASS
N48B	30	20+20	CP-QPSK	M	Outer_Full	VL	NT	-6.800000	-0.001873	PASS



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Report No.: SEWM2311000473RG06
 Rev.: 01
 Page: 73 of 73

Frequency Error VS. Temperature

Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N48B	30	20+20	DFT-PI2BPSK	M	Outer_Full	NV	-30	5.900000	0.001506	PASS
N48B	30	20+20	DFT-PI2BPSK	M	Outer_Full	NV	-20	4.000000	0.000979	PASS
N48B	30	20+20	DFT-PI2BPSK	M	Outer_Full	NV	-10	1.200000	0.000297	PASS
N48B	30	20+20	DFT-PI2BPSK	M	Outer_Full	NV	0	1.900000	0.000465	PASS
N48B	30	20+20	DFT-PI2BPSK	M	Outer_Full	NV	10	- 2.800000	- 0.000837	PASS
N48B	30	20+20	DFT-PI2BPSK	M	Outer_Full	NV	20	2.100000	0.000501	PASS
N48B	30	20+20	DFT-PI2BPSK	M	Outer_Full	NV	30	0.100000	0.000075	PASS
N48B	30	20+20	DFT-PI2BPSK	M	Outer_Full	NV	40	- 1.400000	- 0.000494	PASS
N48B	30	20+20	DFT-PI2BPSK	M	Outer_Full	NV	50	2.100000	0.000474	PASS
N48B	30	20+20	CP-QPSK	M	Outer_Full	NV	-30	- 0.500000	- 0.000236	PASS
N48B	30	20+20	CP-QPSK	M	Outer_Full	NV	-20	- 1.900000	- 0.000624	PASS
N48B	30	20+20	CP-QPSK	M	Outer_Full	NV	-10	- 5.900000	- 0.001536	PASS
N48B	30	20+20	CP-QPSK	M	Outer_Full	NV	0	- 2.700000	- 0.000738	PASS
N48B	30	20+20	CP-QPSK	M	Outer_Full	NV	10	- 5.700000	- 0.001600	PASS
N48B	30	20+20	CP-QPSK	M	Outer_Full	NV	20	- 1.500000	- 0.000482	PASS
N48B	30	20+20	CP-QPSK	M	Outer_Full	NV	30	- 2.600000	- 0.000751	PASS
N48B	30	20+20	CP-QPSK	M	Outer_Full	NV	40	0.300000	0.000032	PASS
N48B	30	20+20	CP-QPSK	M	Outer_Full	NV	50	3.200000	0.000782	PASS

---End of Attachment---



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