

Report No.: SEWM2302000040RG01

Rev.: 01

Page: 1 of 75

Appendix B.8

LTE CA_7C



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 2 of 75

Effective (Isotropic) Radiated Power Output Data**Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	1RB#0-0RB#0	23.22	26.65	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	21.18	24.61	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	1RB#0-0RB#0	23.31	26.74	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	21.25	24.68	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	1RB#0-0RB#0	18.05	21.48	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	21.08	24.51	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	1RB#0-0RB#0	23.15	26.58	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	20.31	23.74	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	1RB#0-0RB#0	23.13	26.56	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	19.8	23.23	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	1RB#0-0RB#0	23.06	26.49	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	19.83	23.26	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	1RB#0-0RB#0	21.3	24.73	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	20.29	23.72	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	1RB#0-0RB#0	21.33	24.76	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	19.79	23.22	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	1RB#0-0RB#0	21.38	24.81	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	19.82	23.25	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	1RB#0-0RB#0	22.67	26.1	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	22.91	26.34	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	1RB#0-0RB#0	22.87	26.3	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	22.52	25.95	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	1RB#0-0RB#0	22.85	26.28	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	22.73	26.16	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	1RB#0-0RB#0	22.61	26.04	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	21.97	25.4	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	1RB#0-0RB#0	22.75	26.18	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	21.96	25.39	33	PASS



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 3 of 75

7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	1RB#0-0RB#0	22.79	26.22	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	21.76	25.19	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	1RB#0-0RB#0	22.95	26.38	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	22.93	26.36	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	1RB#0-0RB#0	23.06	26.49	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	23	26.43	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	1RB#0-0RB#0	22.98	26.41	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	22.8	26.23	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	1RB#0-0RB#0	23.08	26.51	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	21.2	24.63	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	1RB#0-0RB#0	23.2	26.63	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	21.2	24.63	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	1RB#0-0RB#0	23.33	26.76	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	21.05	24.48	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	1RB#0-0RB#0	23.07	26.5	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	19.79	23.22	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	1RB#0-0RB#0	22.79	26.22	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	19.76	23.19	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	1RB#0-0RB#0	23.2	26.63	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	19.84	23.27	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	1RB#0-0RB#0	21.21	24.64	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	75RB#0-75RB#0	19.77	23.2	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	1RB#0-0RB#0	21.59	25.02	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	19.75	23.18	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	1RB#0-0RB#0	21.35	24.78	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	19.83	23.26	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	1RB#0-0RB#0	23.13	26.56	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	21.19	24.62	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	1RB#0-0RB#0	23.32	26.75	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	21.2	24.63	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	1RB#0-0RB#0	23.32	26.75	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	21.09	24.52	33	PASS



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 4 of 75

7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	1RB#0-0RB#0	22.97	26.4	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	75RB#0-100RB#0	19.91	23.34	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	1RB#0-0RB#0	23.03	26.46	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	20.34	23.77	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	1RB#0-0RB#0	23.21	26.64	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	19.8	23.23	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	1RB#0-0RB#0	21.37	24.8	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	75RB#0-100RB#0	19.91	23.34	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	1RB#0-0RB#0	21.36	24.79	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	20.34	23.77	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	1RB#0-0RB#0	21.29	24.72	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	19.8	23.23	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	100RB#0-50RB#0	21.19	24.62	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	1RB#0-0RB#0	23.12	26.55	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	21.24	24.67	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	1RB#0-0RB#0	23.22	26.65	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	21.54	24.97	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	1RB#0-0RB#0	23.28	26.71	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	100RB#0-50RB#0	20.33	23.76	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	1RB#0-0RB#0	22.67	26.1	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	20.33	23.76	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	1RB#0-0RB#0	22.69	26.12	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	19.86	23.29	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	1RB#0-0RB#0	22.77	26.2	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	100RB#0-50RB#0	20.33	23.76	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	1RB#0-0RB#0	21.64	25.07	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	20.34	23.77	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	1RB#0-0RB#0	21.62	25.05	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	19.87	23.3	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	1RB#0-0RB#0	21.8	25.23	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	21.27	24.7	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	1RB#0-0RB#0	23.16	26.59	33	PASS



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 5 of 75

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7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	1RB#0-0RB#0	23.26	26.69	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	20.86	24.29	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	1RB#0-0RB#0	23.16	26.59	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	19.89	23.32	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	1RB#0-0RB#0	22.83	26.26	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	19.8	23.23	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	1RB#0-0RB#0	23.2	26.63	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	19.82	23.25	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	1RB#0-0RB#0	22.89	26.32	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	100RB#0-75RB#0	19.9	23.33	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	1RB#0-0RB#0	21.79	25.22	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	19.78	23.21	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	1RB#0-0RB#0	21.41	24.84	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	19.81	23.24	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	1RB#0-0RB#0	21.68	25.11	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	21.22	24.65	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	1RB#0-0RB#0	23.09	26.52	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	21.19	24.62	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	1RB#0-0RB#0	23.27	26.7	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	21.44	24.87	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	1RB#0-0RB#0	23.34	26.77	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	19.92	23.35	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	1RB#0-0RB#0	23.08	26.51	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	20.29	23.72	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	1RB#0-0RB#0	23.12	26.55	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	19.83	23.26	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	1RB#0-0RB#0	23.1	26.53	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	19.92	23.35	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	1RB#0-0RB#0	21.39	24.82	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	20.26	23.69	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	1RB#0-0RB#0	21.31	24.74	33	PASS



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 6 of 75

7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	19.81	23.24	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	1RB#0-0RB#0	21.37	24.8	33	PASS



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 7 of 75

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	8.26	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	8.40	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	8.20	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	8.46	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	8.46	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	8.44	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	8.34	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	8.28	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	8.28	13	PASS



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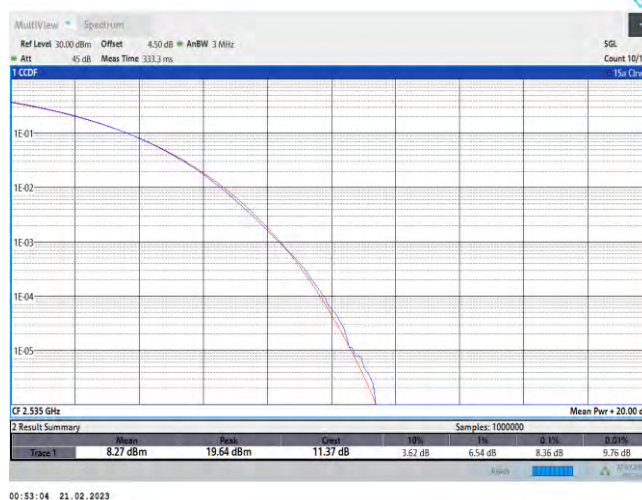
Page: 8 of 75

Test Graphs

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0



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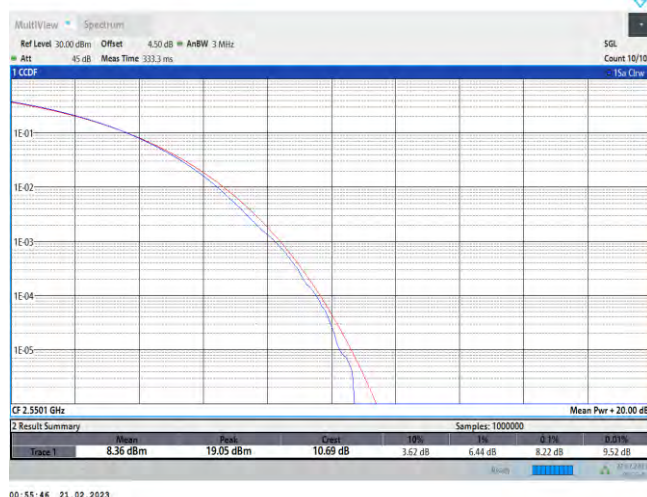
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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 9 of 75

7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



00:55:46 21.02.2023

7-7-20MHz-20MHz-16QAM-16QAM-20850-21048-100RB#0-100RB#0



00:50:49 21.02.2023



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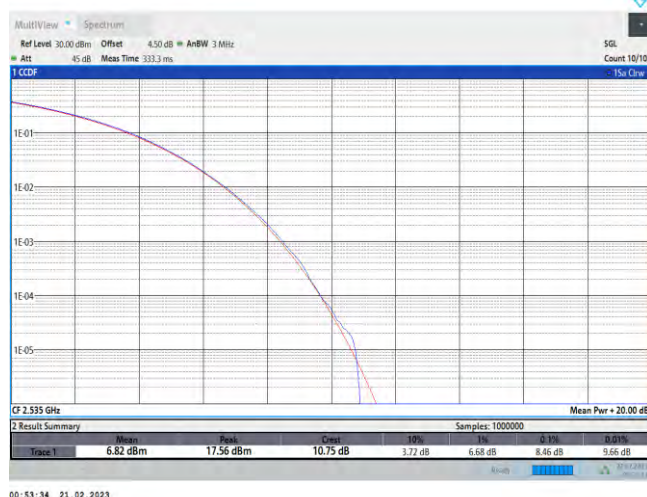
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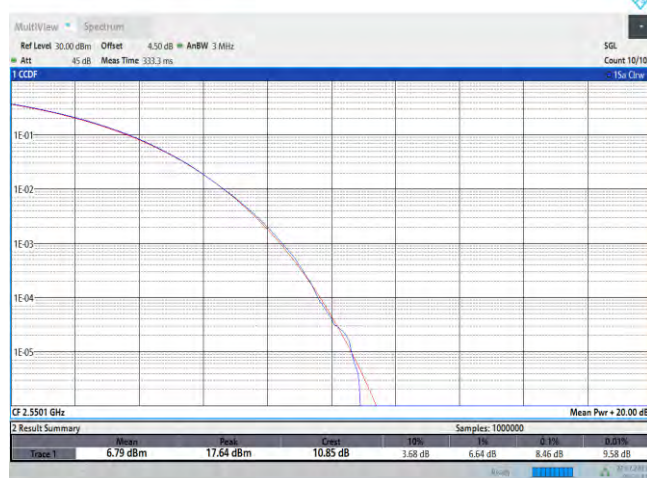
Page: 10 of 75

7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



00:53:34 21.02.2023

7-7-20MHz-20MHz-16QAM-16QAM-21152-21350-100RB#0-100RB#0



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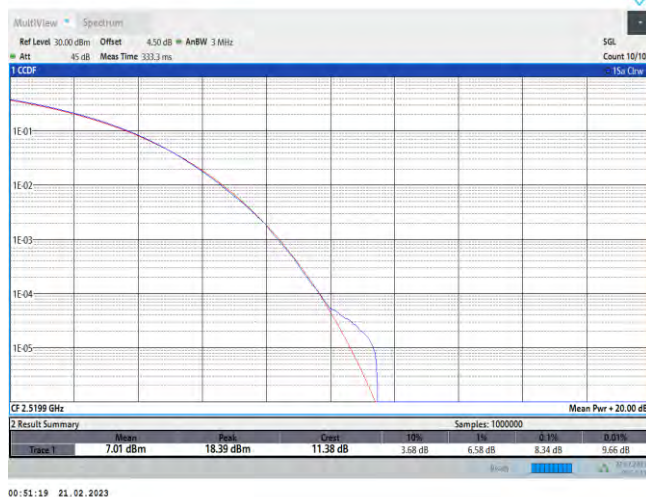
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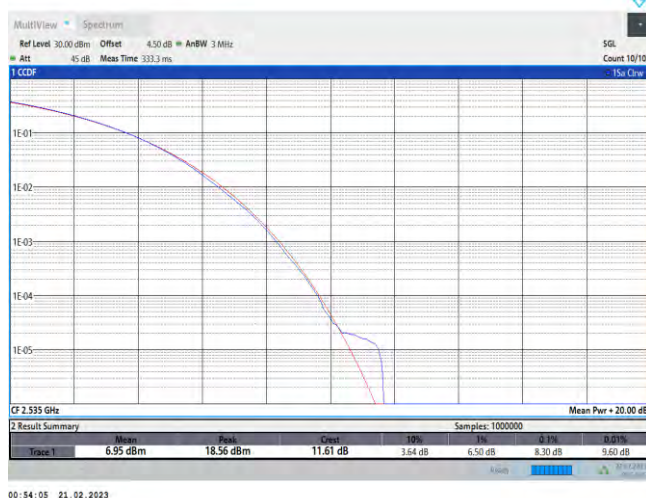
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Page: 11 of 75

7-7-20MHz-20MHz-64QAM-64QAM-20850-21048-100RB#0-100RB#0



7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



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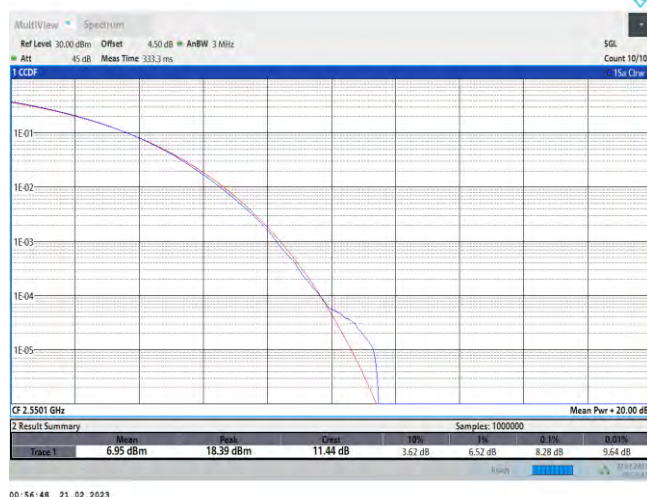
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7-7-20MHz-20MHz-64QAM-64QAM-21152-21350-100RB#0-100RB#0



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Rev.: 01

Page: 13 of 75

Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	50RB#0-50RB#0	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	50RB#0-50RB#0	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	50RB#0-50RB#0	PASS



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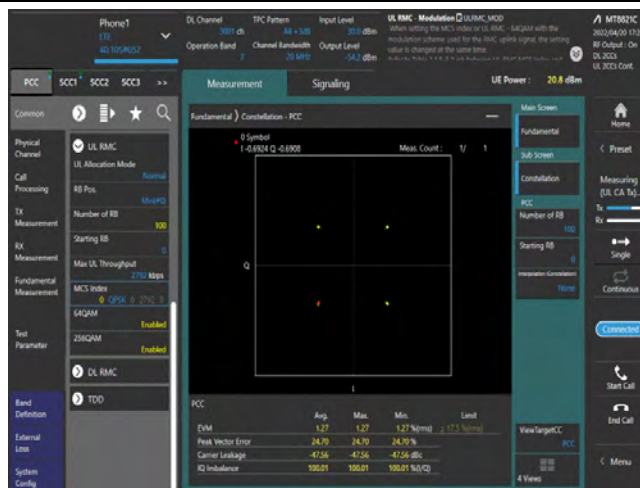
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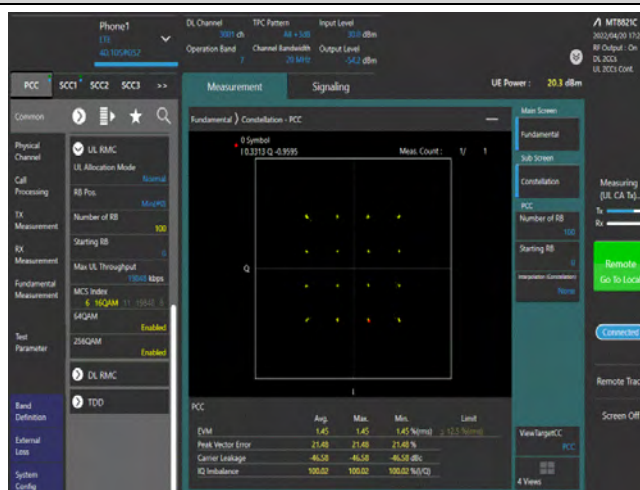
Report No.: SEWM2302000040RG01
 Rev.: 01
 Page: 14 of 75

Test Graphs

7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0



7-7-20MHz-20MHz-16QAM-16QAM -21001-21199-100RB#0-100RB#0



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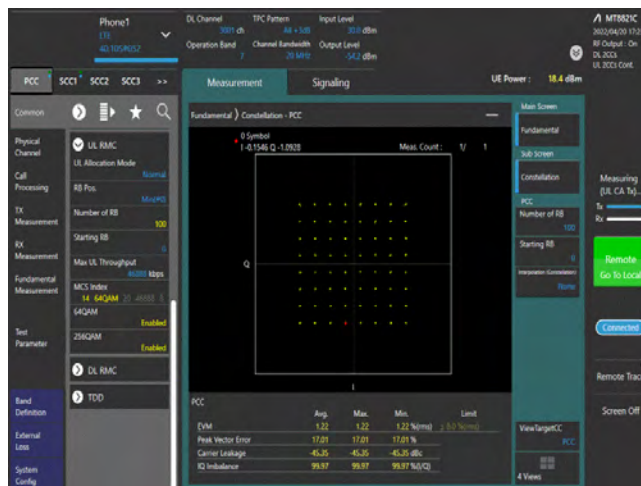
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Rev.: 01

Page: 15 of 75

7-7-20MHz-20MHz-64QAM-64QAM-221001-21199-100RB#0-100RB#0



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 16 of 75

26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	27.747	29.64	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	27.809	29.70	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	27.712	29.64	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	27.716	29.46	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	27.716	29.46	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	27.666	29.46	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	27.731	29.58	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	27.738	29.64	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	27.674	29.58	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	23.223	25.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	23.199	24.95	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	23.167	24.85	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	23.223	24.85	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	23.17	24.80	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	23.172	24.95	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	23.225	38.50	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	23.168	24.75	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	23.166	25.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	28.397	30.24	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	28.386	30.36	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	28.383	30.36	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	28.317	30.24	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	28.347	30.36	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	28.322	30.30	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	75RB#0-75RB#0	28.309	30.30	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	28.335	30.48	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	28.287	30.30	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	32.604	34.72	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	32.602	34.79	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	32.586	34.79	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	75RB#0-100RB#0	32.538	34.72	PASS



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 17 of 75

7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	32.578	34.72	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	32.571	34.72	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	75RB#0-100RB#0	32.545	34.72	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	32.583	34.79	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	32.543	34.79	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	100RB#0-50RB#0	27.752	29.52	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	27.781	29.52	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	27.787	29.46	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	100RB#0-50RB#0	27.692	29.40	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	27.706	29.58	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	27.742	29.52	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	100RB#0-50RB#0	27.659	29.46	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	27.697	29.64	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	27.699	29.64	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	32.644	34.65	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	32.684	34.79	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	32.659	34.72	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	32.559	34.65	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	32.574	34.79	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	32.591	34.72	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	100RB#0-75RB#0	32.551	34.65	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	32.554	34.79	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	32.519	34.72	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	37.788	40.72	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	37.768	40.72	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	37.742	40.80	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	37.643	42.16	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	37.649	40.72	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	37.62	40.56	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	37.598	40.48	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	37.651	40.56	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	37.654	40.56	PASS



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 18 of 75

Test Graphs

7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-50RB#0-100RB#0



22:48:03 20.02.2023

7-7-10MHz-20MHz-QPSK-QPSK-21006-21150-50RB#0-100RB#0



22:50:48 20.02.2023



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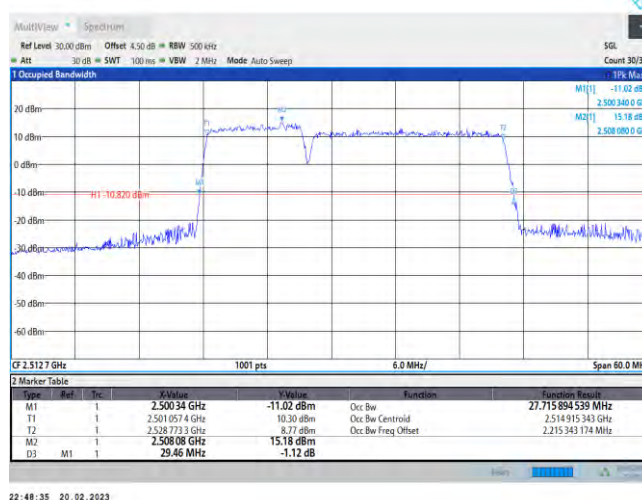
Page: 19 of 75

7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-50RB#0-100RB#0



22:53:32 20.02.2023

7-7-10MHz-20MHz-16QAM-16QAM-20805-20949-50RB#0-100RB#0



22:48:35 20.02.2023



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 20 of 75

7-7-10MHz-20MHz-16QAM-16QAM-21006-21150-50RB#0-100RB#0



22:51:19 20.02.2023

7-7-10MHz-20MHz-16QAM-16QAM-21206-21350-50RB#0-100RB#0



22:54:04 20.02.2023



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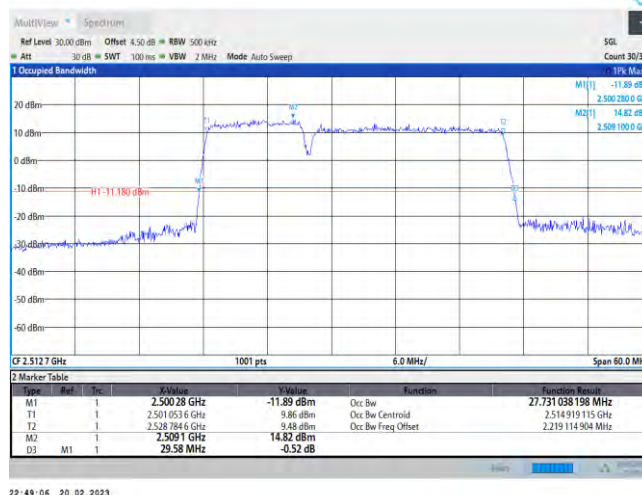
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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 21 of 75

7-7-10MHz-20MHz-64QAM-64QAM-20805-20949-50RB#0-100RB#0



22:49:06 20.02.2023

7-7-10MHz-20MHz-64QAM-64QAM-21006-21150-50RB#0-100RB#0



22:51:50 20.02.2023



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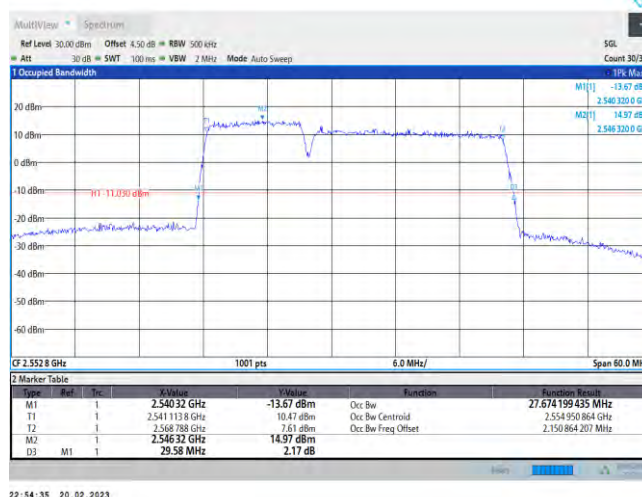
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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 22 of 75

7-7-10MHz-20MHz-64QAM-64QAM-21206-21350-50RB#0-100RB#0



22:54:35 20.02.2023

7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-75RB#0-50RB#0



23:08:18 20.02.2023



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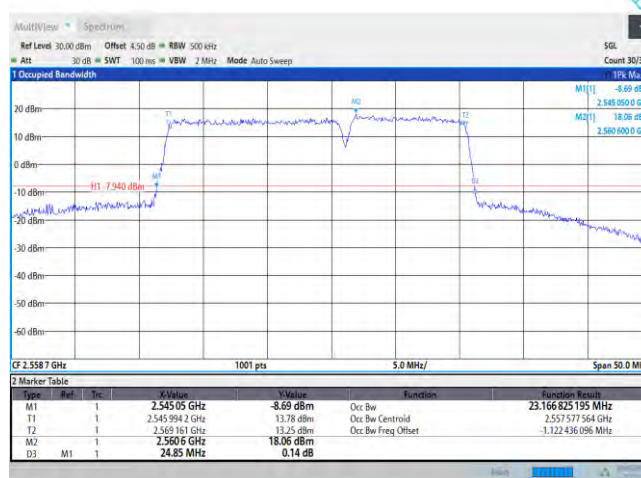
Page: 23 of 75

7-7-15MHz-10MHz-QPSK-QPSK-21051-21171-75RB#0-50RB#0



23:09:53 20.02.2023

7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-75RB#0-50RB#0



23:11:28 20.02.2023



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 24 of 75

7-7-15MHz-10MHz-16QAM-16QAM-20825-20945-75RB#0-50RB#0



23:08:49 20.02.2023

7-7-15MHz-10MHz-16QAM-16QAM-21051-21171-75RB#0-50RB#0



23:10:24 20.02.2023



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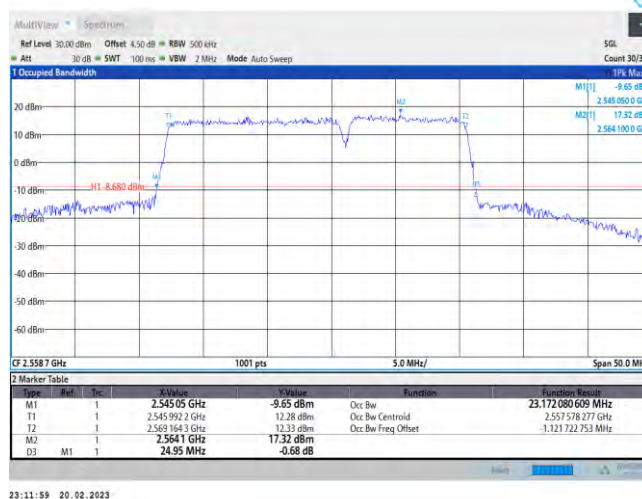
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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 25 of 75

7-7-15MHz-10MHz-16QAM-16QAM-21277-21397-75RB#0-50RB#0



23:11:59 20.02.2023

7-7-15MHz-10MHz-64QAM-64QAM-20825-20945-75RB#0-50RB#0



23:09:21 20.02.2023



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 26 of 75

7-7-15MHz-10MHz-64QAM-64QAM-21051-21171-75RB#0-50RB#0



23:10:55 20.02.2023

7-7-15MHz-10MHz-64QAM-64QAM-21277-21397-75RB#0-50RB#0



23:12:30 20.02.2023



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 27 of 75

7-15MHz-15MHz-QPSK-QPSK-20825-20975-75RB#0-75RB#0



23:28:36 20.02.2023

7-15MHz-15MHz-QPSK-QPSK-21025-21175-75RB#0-75RB#0



23:31:20 20.02.2023



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 28 of 75

7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-75RB#0-75RB#0



23:34:05 20.02.2023

7-7-15MHz-15MHz-16QAM-16QAM-20825-20975-75RB#0-75RB#0



23:29:07 20.02.2023



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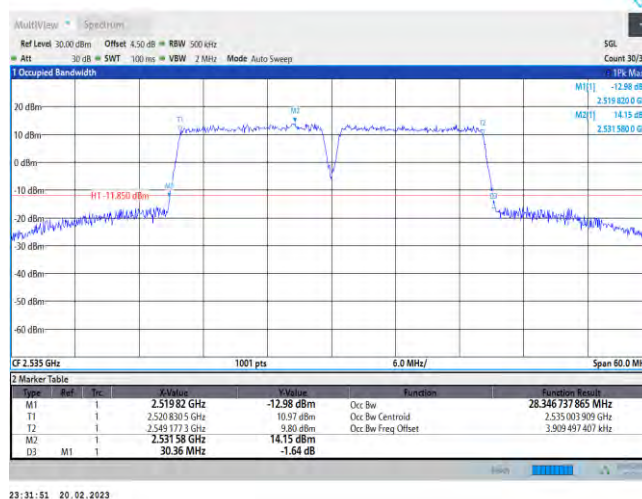
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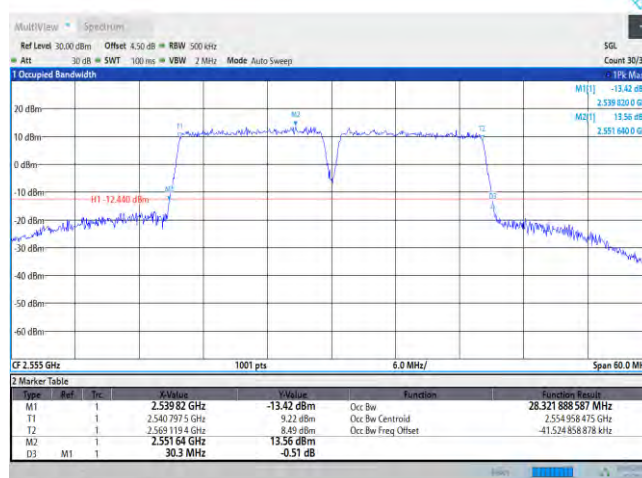
Page: 29 of 75

7-7-15MHz-15MHz-16QAM-16QAM-21025-21175-75RB#0-75RB#0



23:31:51 20.02.2023

7-7-15MHz-15MHz-16QAM-16QAM-21225-21375-75RB#0-75RB#0



23:34:36 20.02.2023



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 30 of 75

7-7-15MHz-15MHz-64QAM-64QAM-20825-20975-75RB#0-75RB#0



7-7-15MHz-15MHz-64QAM-64QAM-21025-21175-75RB#0-75RB#0



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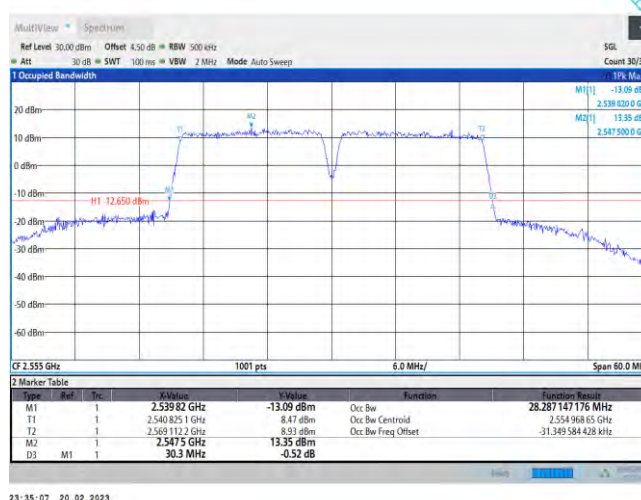
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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 31 of 75

7-7-15MHz-15MHz-64QAM-64QAM-21225-21375-75RB#0-75RB#0



23:35:07 20.02.2023

7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-75RB#0-100RB#0



23:50:40 20.02.2023



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 32 of 75

7-7-15MHz-20MHz-QPSK-QPSK-21003-21174-75RB#0-100RB#0



23:53:24 20.02.2023

7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-75RB#0-100RB#0



23:56:09 20.02.2023



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 33 of 75

7-7-15MHz-20MHz-16QAM-16QAM-20828-20999-75RB#0-100RB#0



23:51:11 20.02.2023

7-7-15MHz-20MHz-16QAM-16QAM-21003-21174-75RB#0-100RB#0



23:53:55 20.02.2023



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Rev.: 01

Page: 34 of 75

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23:56:40 20.02.2023

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23:51:42 20.02.2023



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 35 of 75

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23:54:26 20.02.2023

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23:57:11 20.02.2023



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 36 of 75

7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-100RB#0-50RB#0



00:09:08 21.02.2023

7-7-20MHz-10MHz-QPSK-QPSK-21051-21195-100RB#0-50RB#0



00:10:42 21.02.2023



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 38 of 75

7-7-20MHz-10MHz-16QAM-16QAM-21051-21195-100RB#0-50RB#0



00:11:14 21.02.2023

7-7-20MHz-10MHz-16QAM-16QAM-21251-21395-100RB#0-50RB#0



00:12:48 21.02.2023



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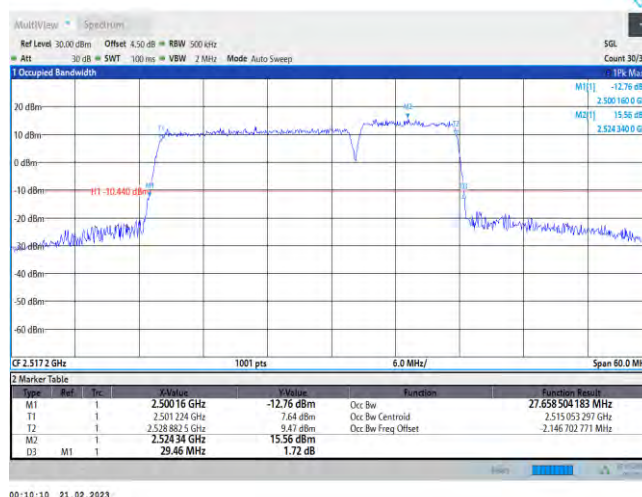
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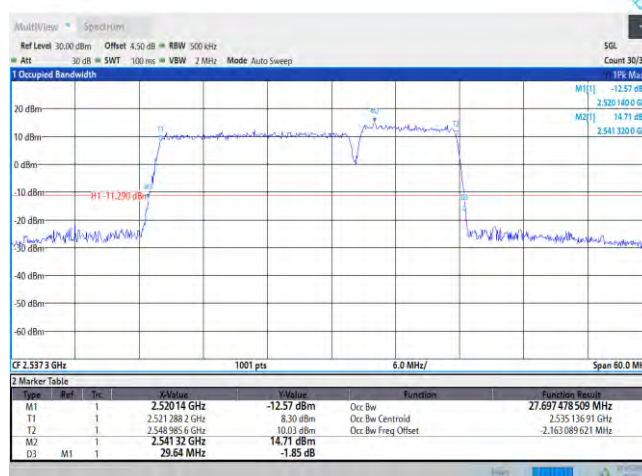
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7-7-20MHz-10MHz-64QAM-64QAM-20850-20994-100RB#0-50RB#0



00:10:10 21.02.2023

7-7-20MHz-10MHz-64QAM-64QAM-21051-21195-100RB#0-50RB#0



00:11:45 21.02.2023



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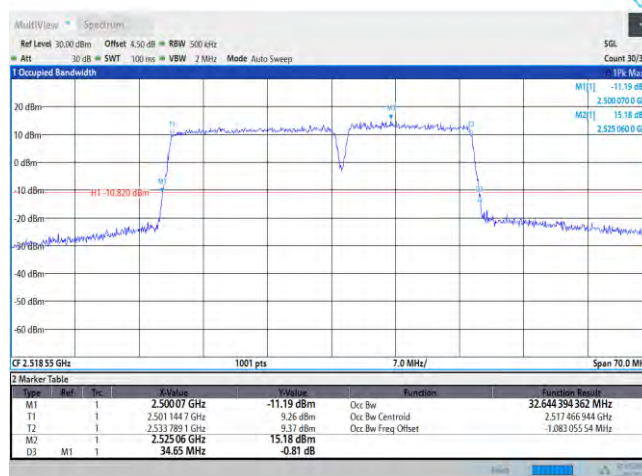
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7-7-20MHz-10MHz-64QAM-64QAM-21251-21395-100RB#0-50RB#0



00:13:18 21.02.2023

7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



00:29:33 21.02.2023



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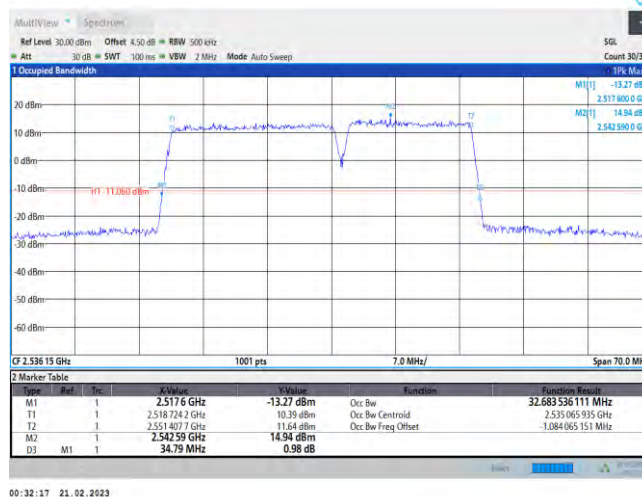
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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 41 of 75

7-7-20MHz-15MHz-QPSK-QPSK-21026-21197-100RB#0-75RB#0



00:32:17 21.02.2023

7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-100RB#0-75RB#0



00:35:02 21.02.2023



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 42 of 75

7-7-20MHz-15MHz-16QAM-16QAM-20850-21021-100RB#0-75RB#0



00:30:04 21.02.2023

7-7-20MHz-15MHz-16QAM-16QAM-21026-21197-100RB#0-75RB#0



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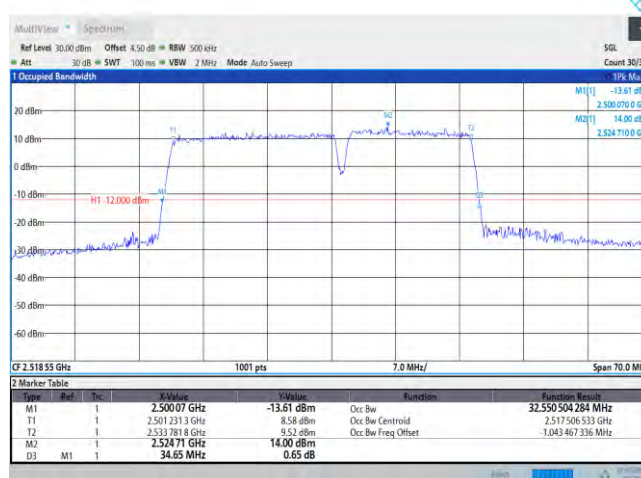
Page: 43 of 75

7-7-20MHz-15MHz-16QAM-16QAM-21201-21372-100RB#0-75RB#0



00:35:33 21.02.2023

7-7-20MHz-15MHz-64QAM-64QAM-20850-21021-100RB#0-75RB#0



00:30:35 21.02.2023



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7-7-20MHz-15MHz-64QAM-64QAM-21026-21197-100RB#0-75RB#0



00:33:20 21.02.2023

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00:36:04 21.02.2023



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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



00:57:34 21.02.2023

7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0



01:00:22 21.02.2023



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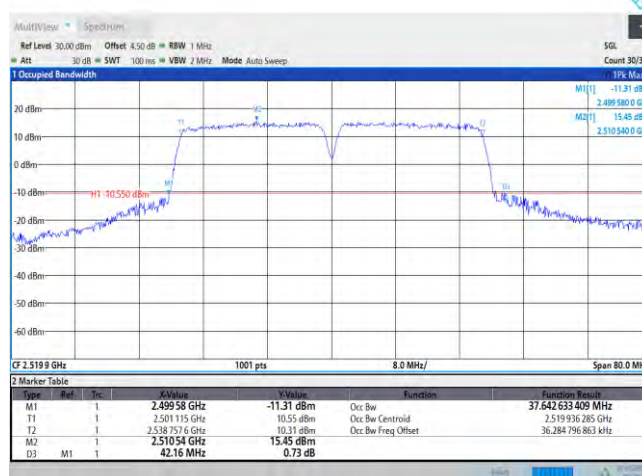
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01:03:06 21.02.2023

7-7-20MHz-20MHz-16QAM-16QAM-20850-21048-100RB#0-100RB#0



00:58:05 21.02.2023



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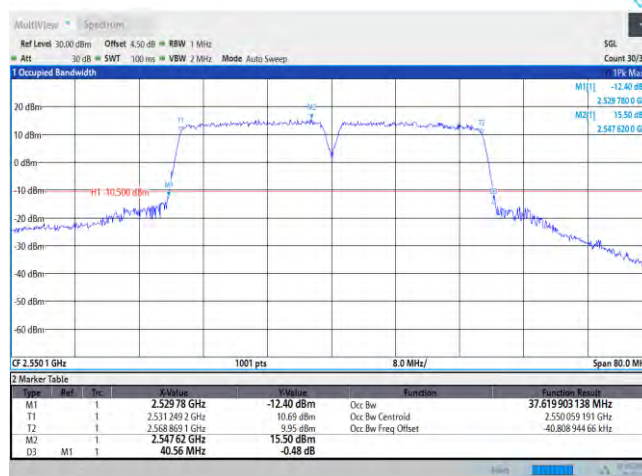
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7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



01:00:53 21.02.2023

7-7-20MHz-20MHz-16QAM-16QAM-21152-21350-100RB#0-100RB#0



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 48 of 75

7-7-20MHz-20MHz-64QAM-64QAM-20850-21048-100RB#0-100RB#0



00:58:37 21.02.2023

7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



01:01:24 21.02.2023



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 49 of 75

7-7-20MHz-20MHz-64QAM-64QAM-21152-21350-100RB#0-100RB#0



01:04:09 21.02.2023



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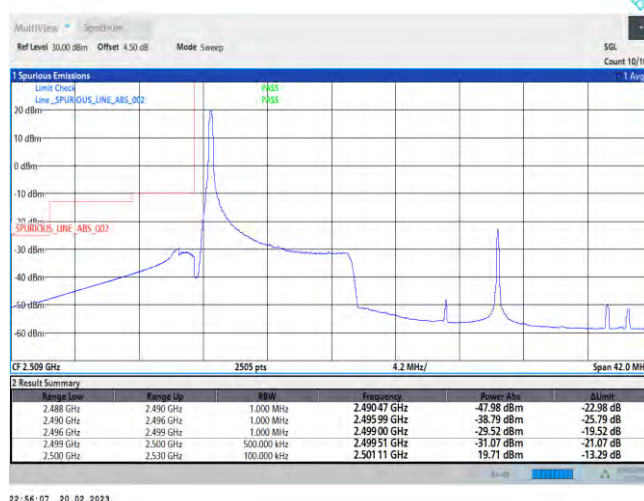
Rev.: 01

Page: 50 of 75

Band Edge

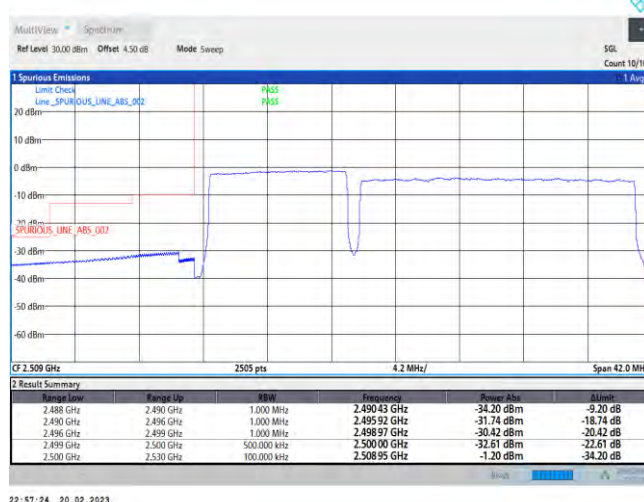
Test Graphs

7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-1RB#0-0RB#0



22:56:07 20.02.2023

7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-50RB#0-100RB#0



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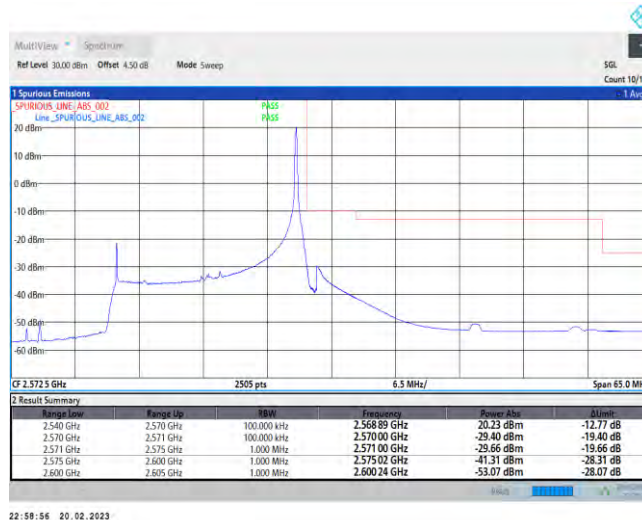
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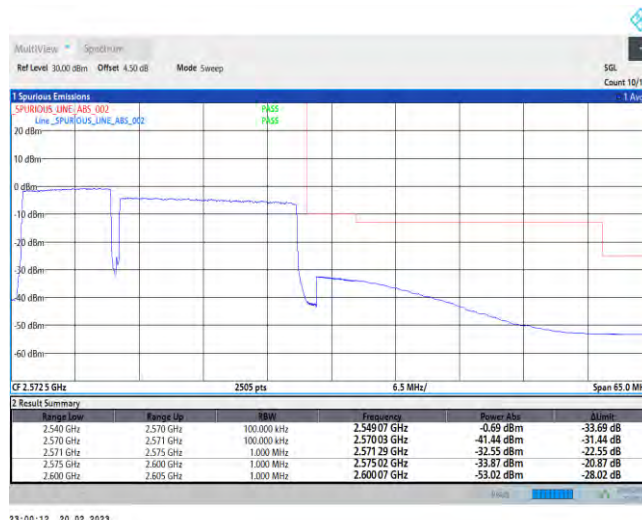
Page: 51 of 75

7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-0RB#0-1RB#99



22:58:56 20.02.2023

7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-50RB#0-100RB#0



23:00:12 20.02.2023



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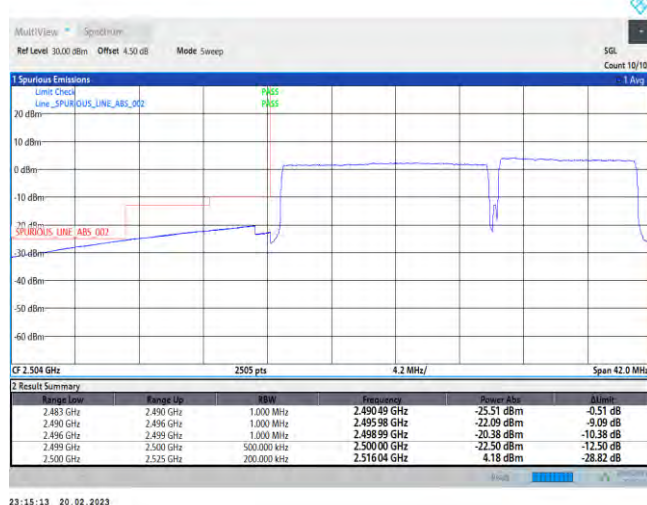
Rev.: 01

Page: 52 of 75

7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-1RB#0-0RB#0



7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-75RB#0-50RB#0



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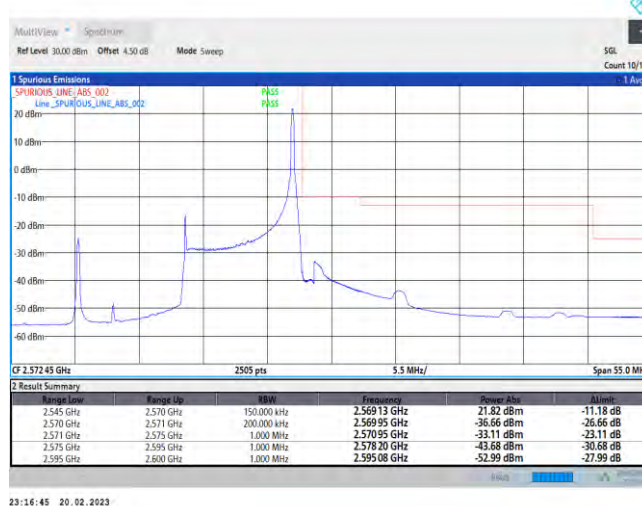
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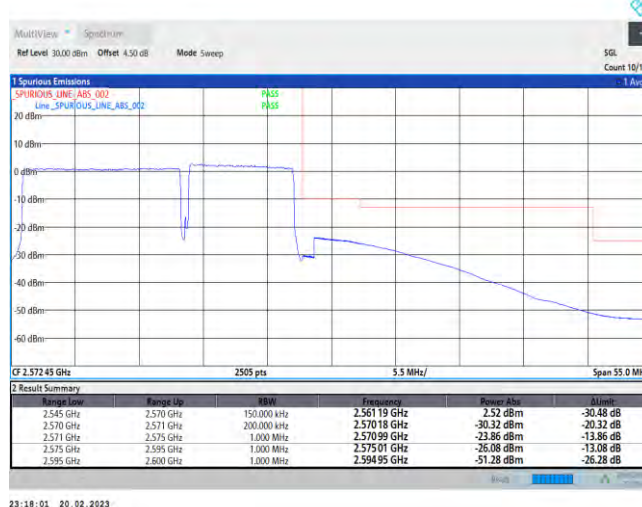
Rev.: 01

Page: 53 of 75

7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-0RB#0-1RB#49



7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-75RB#0-50RB#0



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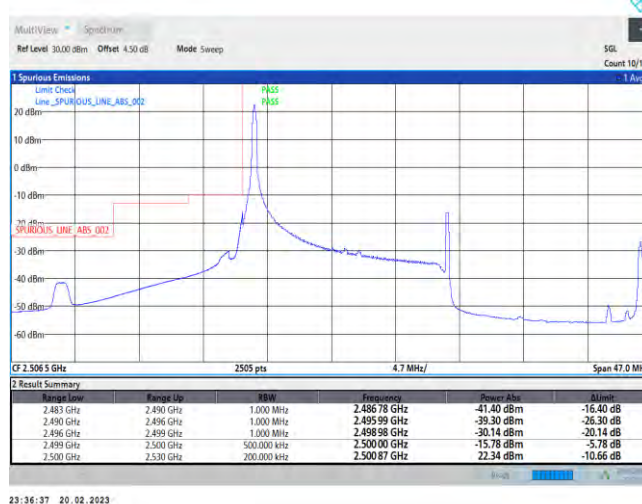
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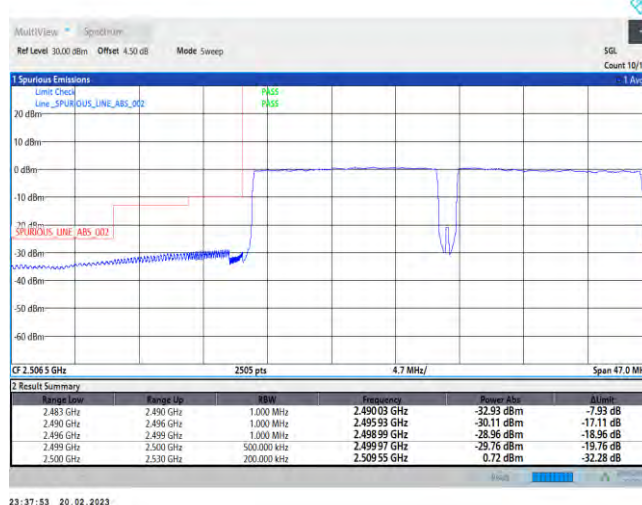
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7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0



23:36:37 20.02.2023

7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-75RB#0-75RB#0



23:37:53 20.02.2023



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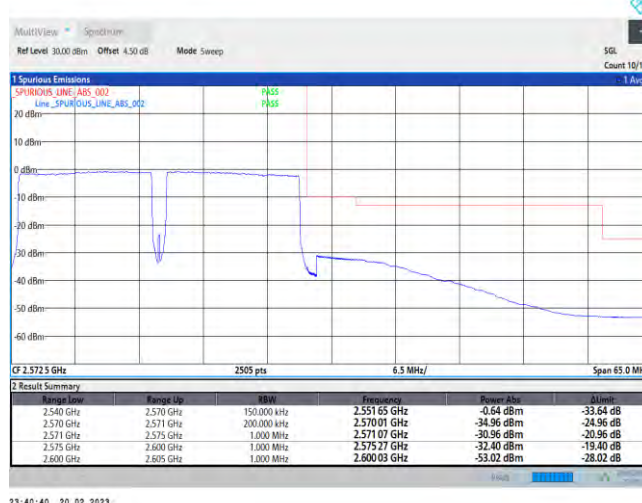
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7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-0RB#0-1RB#74



23:39:24 20.02.2023

7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-75RB#0-75RB#0



23:40:40 20.02.2023



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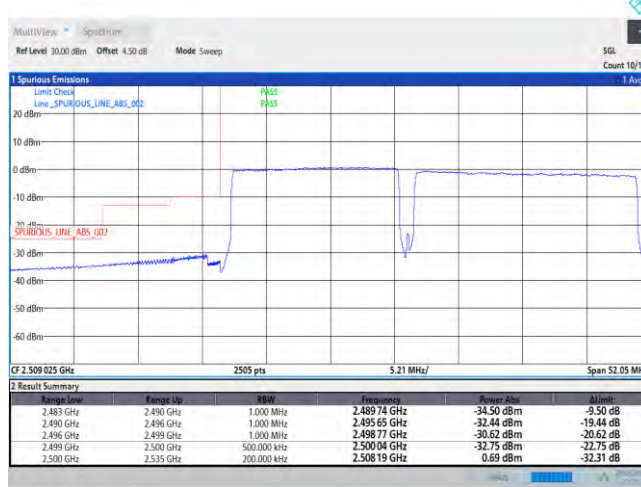
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23:58:42 20.02.2023

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23:59:58 20.02.2023



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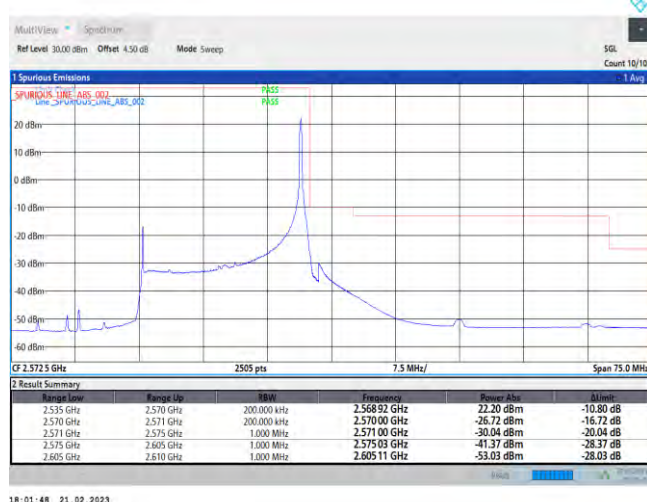
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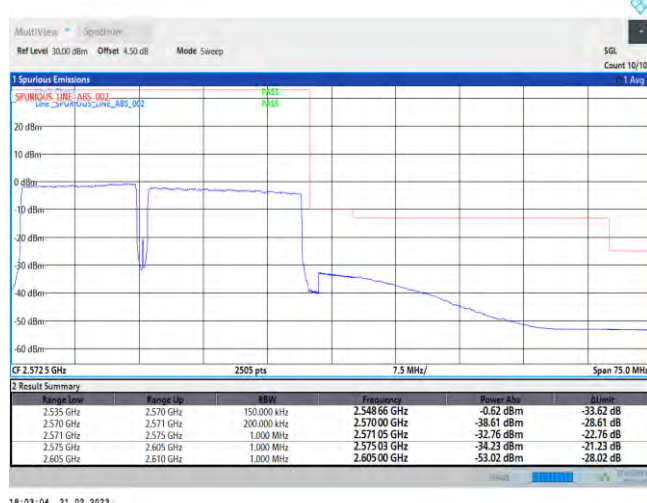
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18:01:48 21.02.2023

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18:03:04 21.02.2023



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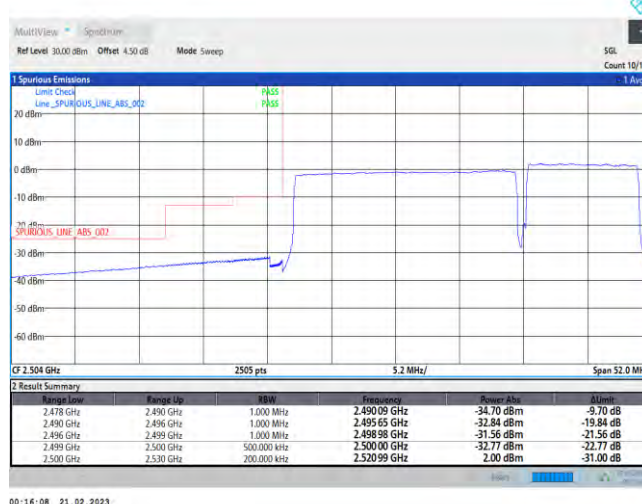
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Page: 58 of 75

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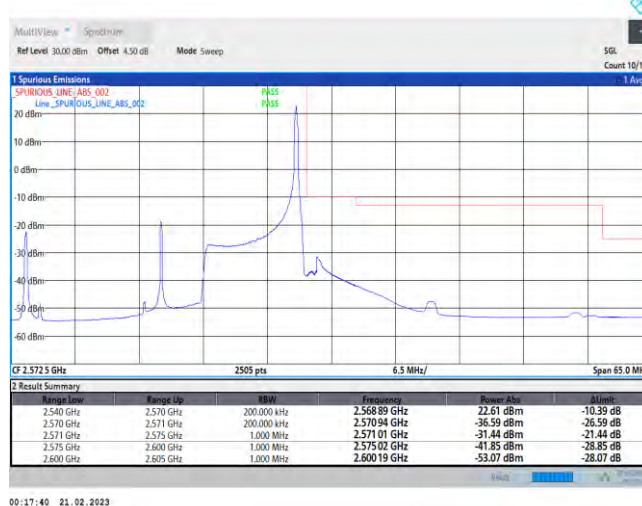
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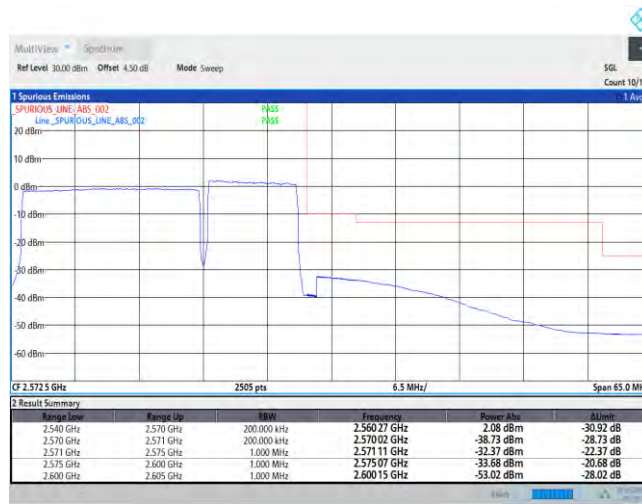
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00:17:40 21.02.2023

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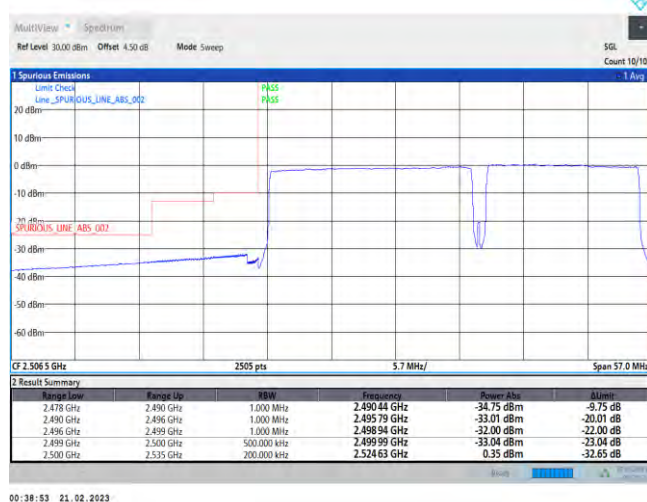
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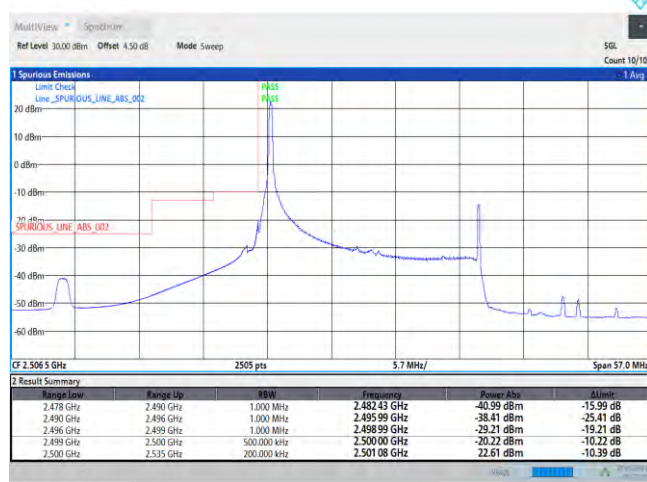
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7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-1RB#0-0RB#0



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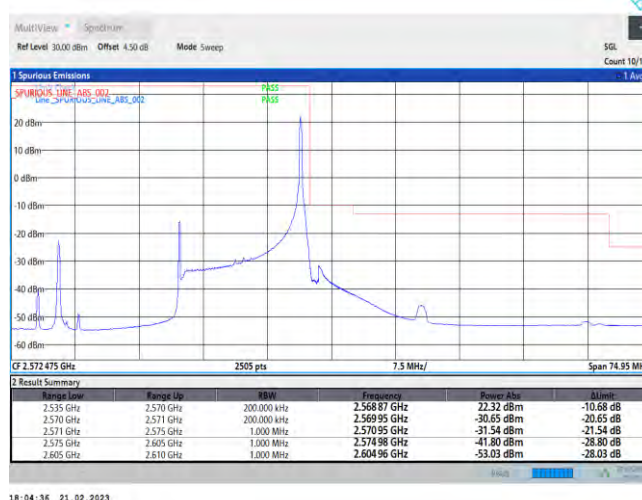
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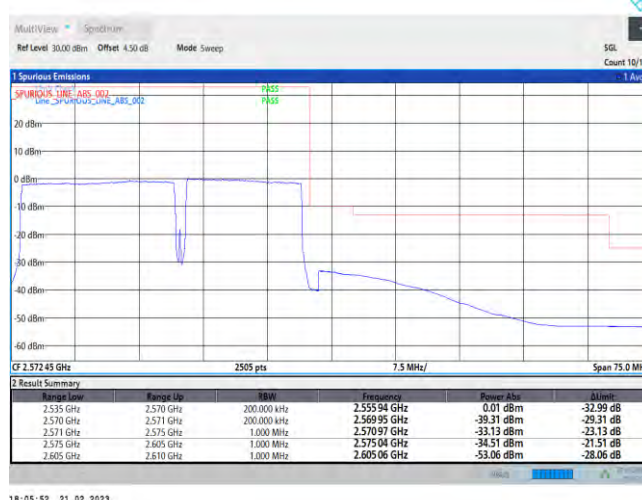
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7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-100RB#0-75RB#0



18:05:52 21.02.2023



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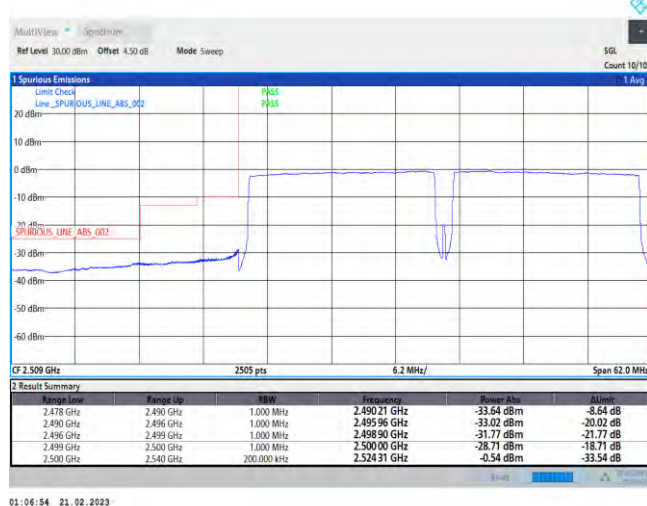
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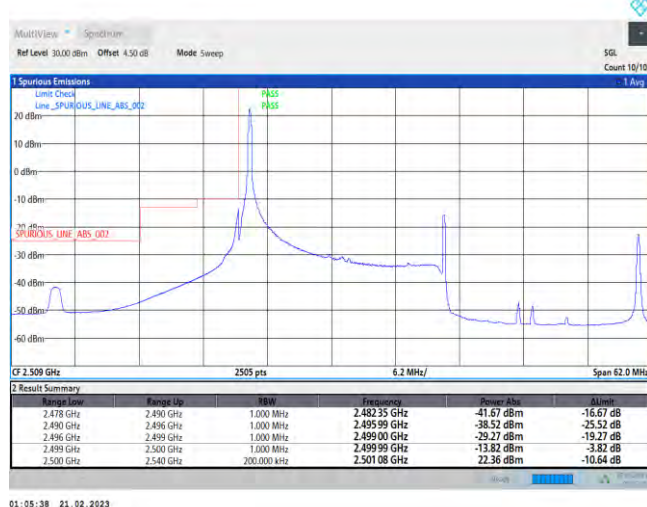
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01:06:54 21.02.2023

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01:05:38 21.02.2023



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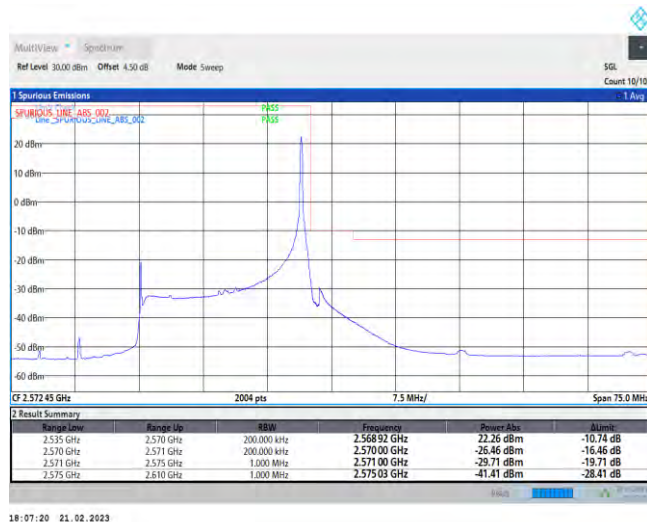
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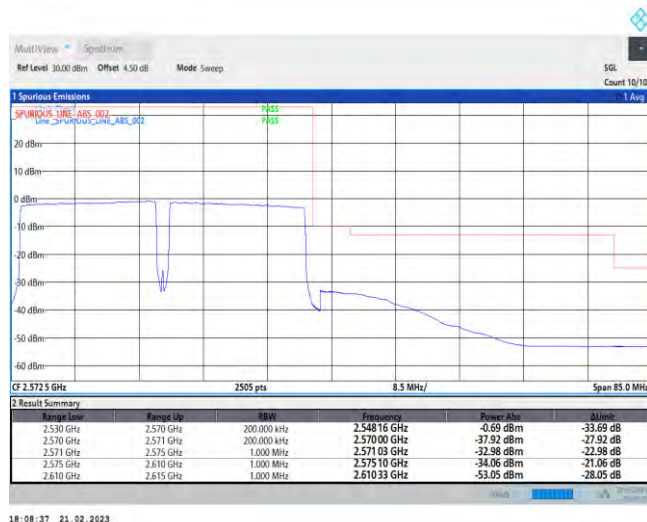
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-0RB#0-1RB#99



18:07:20 21.02.2023

7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



18:08:37 21.02.2023



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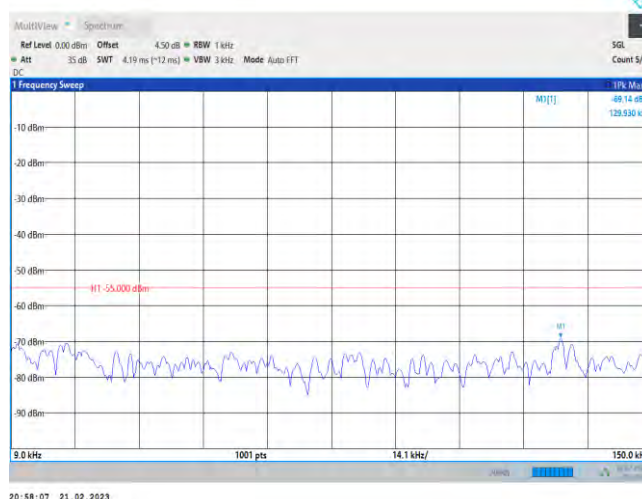
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Page: 64 of 75

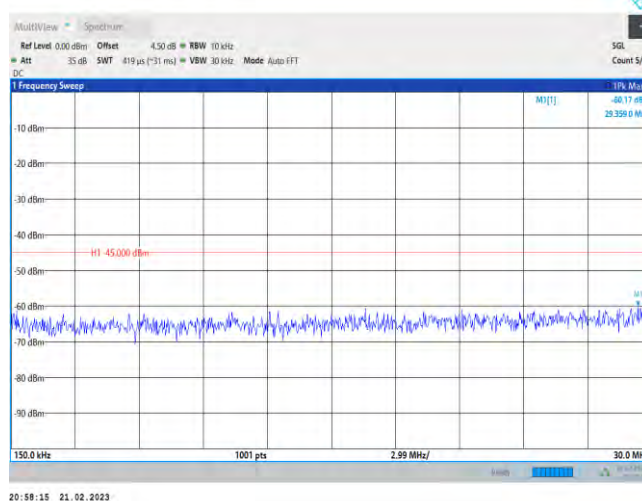
Conducted Spurious Emission

Test Graphs

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.009~0.15MHz



7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.15~30MHz



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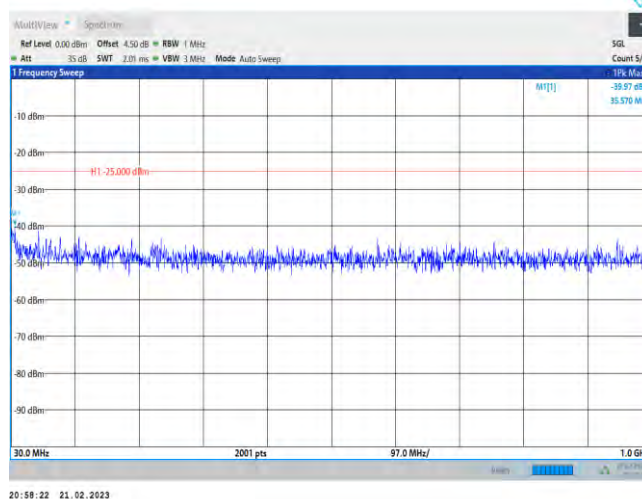
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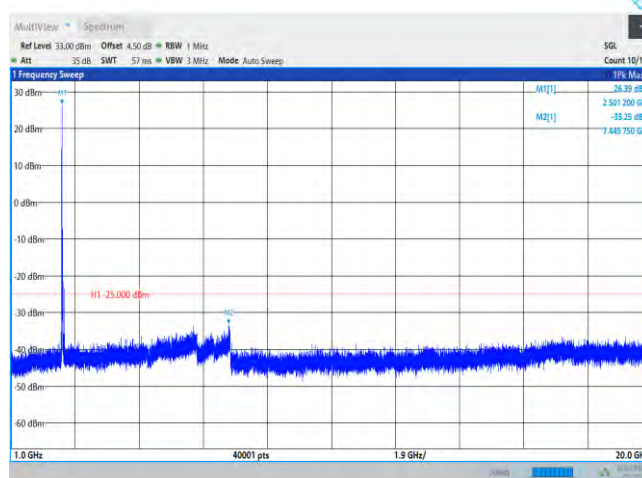
Page: 65 of 75

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-30~1000MHz



20:58:22 21.02.2023

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-1000~20000MHz



20:58:30 21.02.2023



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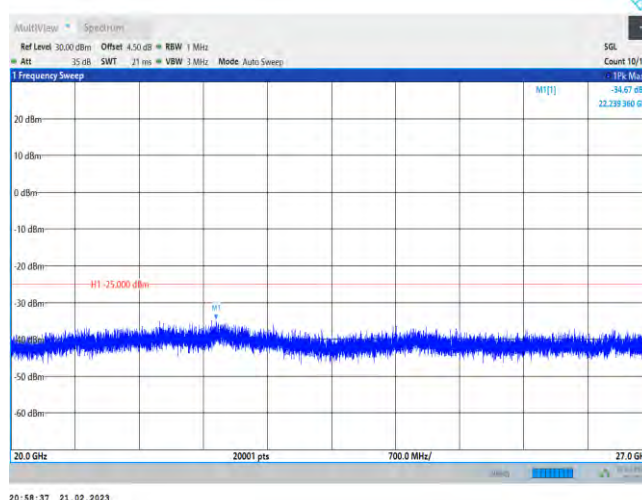
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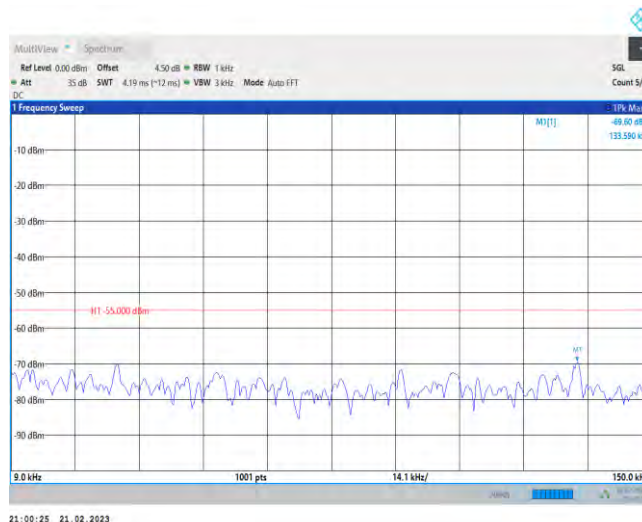
Rev.: 01

Page: 66 of 75

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-20000~27000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.009~0.15MHz



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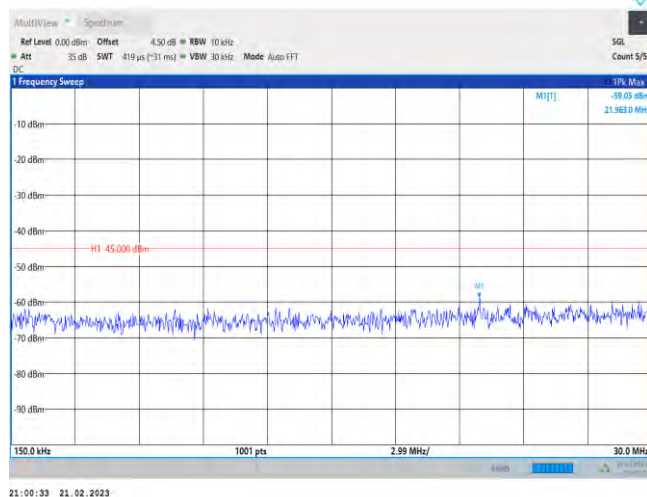
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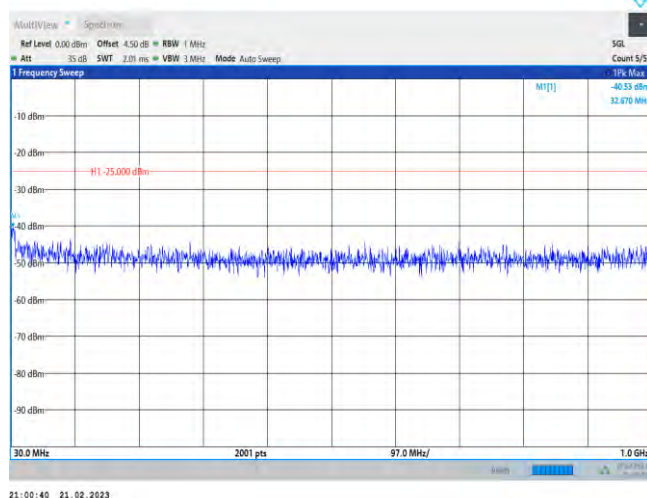
Rev.: 01

Page: 67 of 75

7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.15~30MHz



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-30~1000MHz



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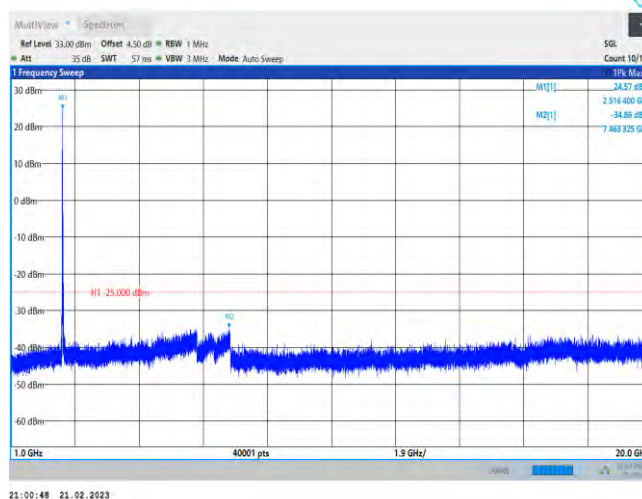
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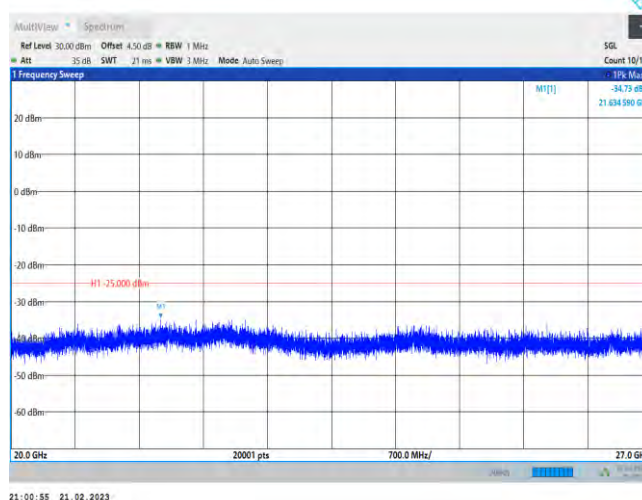
Rev.: 01

Page: 68 of 75

7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-1000~20000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-20000~27000MHz



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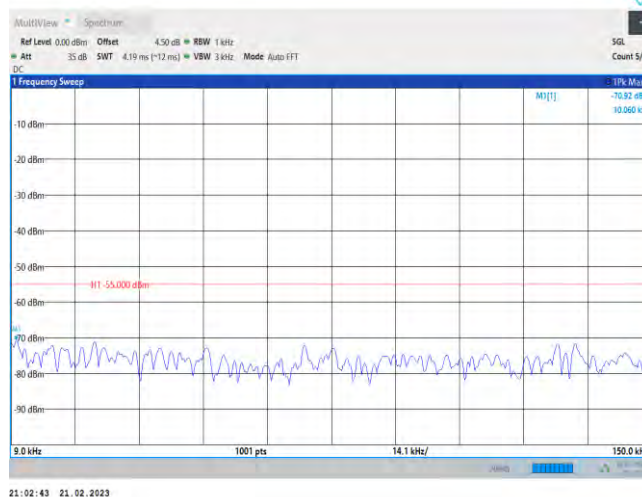
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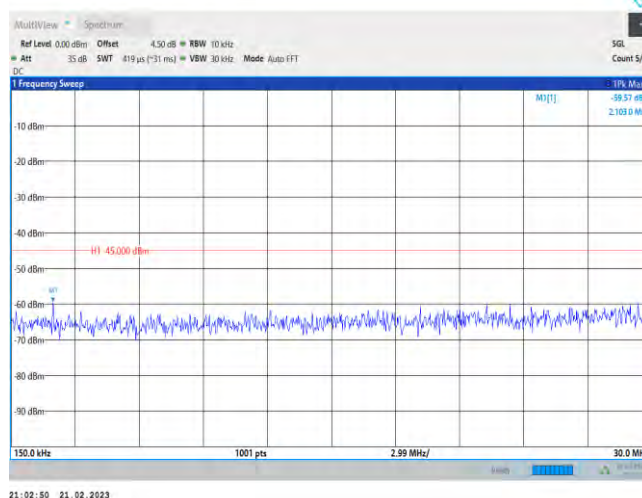
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Page: 69 of 75

7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.009~0.15MHz



7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.15~30MHz



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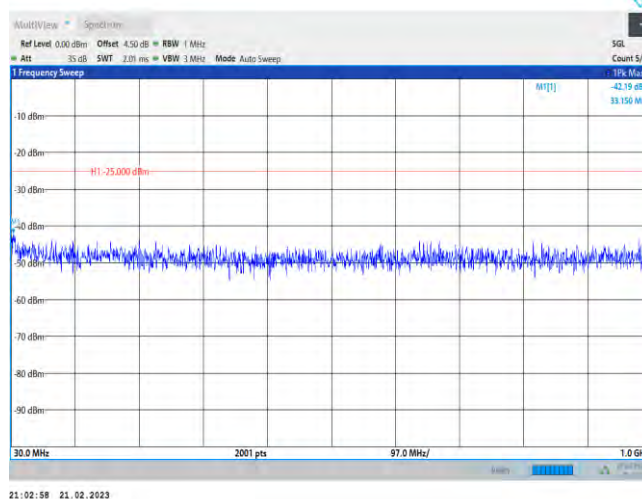
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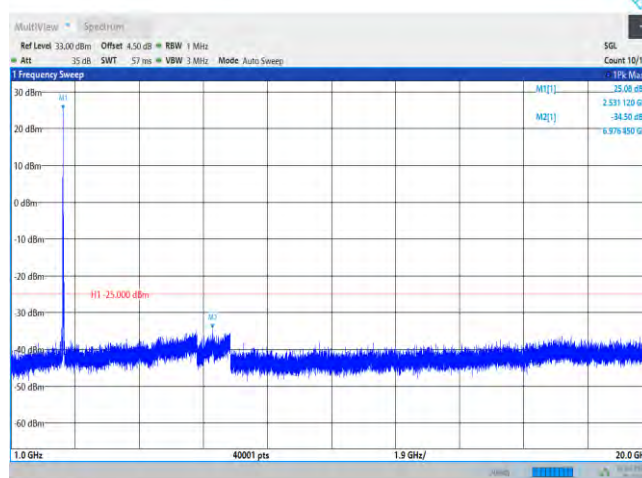
Page: 70 of 75

7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-30~1000MHz



21:02:58 21.02.2023

7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz



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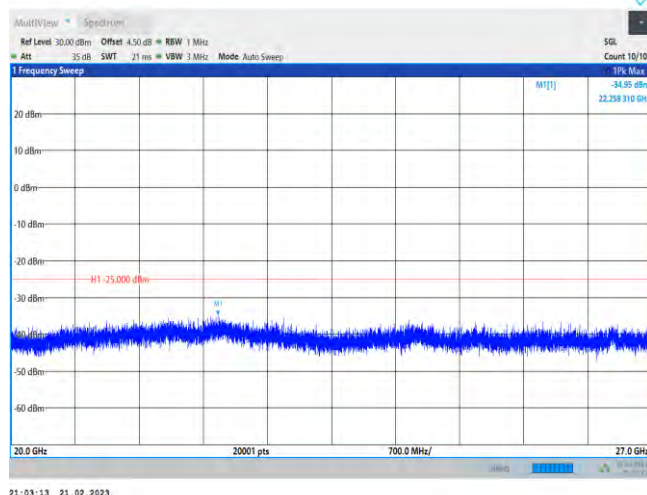
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Rev.: 01

Page: 71 of 75

7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-20000~27000MHz



21:03:13 21.02.2023



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Rev.: 01

Page: 72 of 75

Field Strength of Spurious Radiation

Test Band = LTE Band7CA_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	40.47	-45.63	32.88	-67.54	-25.00	42.54	269	342	Horizontal
2	7503.2700	39.17	-43.13	36.44	-62.78	-25.00	37.78	238	253	Horizontal
3	10004.3600	34.57	-39.23	38.50	-61.43	-25.00	36.43	186	342	Horizontal
4	12505.4500	30.59	-36.99	39.18	-62.48	-25.00	37.48	201	360	Horizontal
5	15006.5400	27.88	-34.65	39.21	-62.82	-25.00	37.82	156	360	Horizontal
6	17507.6300	31.09	-34.95	39.22	-59.90	-25.00	34.90	184	133	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	5002.1800	40.03	-45.63	32.88	-67.98	-25.00	42.98	182	121	Vertical
2	7503.2700	38.38	-43.13	36.44	-63.57	-25.00	38.57	193	90	Vertical
3	10004.3600	35.51	-39.23	38.50	-60.49	-25.00	35.49	228	360	Vertical
4	12505.4500	30.42	-36.99	39.18	-62.65	-25.00	37.65	174	164	Vertical
5	15006.5400	27.87	-34.65	39.21	-62.83	-25.00	37.83	156	357	Vertical
6	17507.6300	31.30	-34.95	39.22	-59.69	-25.00	34.69	208	180	Vertical



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 73 of 75

Test Band = LTE Band7CA_ TM1
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	5032.3800	40.07	-45.55	32.90	-67.84	-25.00	42.84	156	150	Horizontal
2	7548.2700	38.81	-43.04	36.42	-63.07	-25.00	38.07	244	60	Horizontal
3	10064.7600	35.00	-39.16	38.59	-60.83	-25.00	35.83	167	331	Horizontal
4	12580.9500	30.91	-37.49	39.26	-62.58	-25.00	37.58	256	134	Horizontal
5	15097.1400	28.91	-34.94	39.09	-62.20	-25.00	37.20	209	286	Horizontal
6	17613.3300	31.14	-33.34	39.62	-57.84	-25.00	32.84	141	360	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	5032.3800	40.12	-45.55	32.90	-67.79	-25.00	42.79	144	344	Vertical
2	7548.2700	39.21	-43.04	36.42	-62.67	-25.00	37.67	190	331	Vertical
3	10064.7600	34.39	-39.16	38.59	-61.44	-25.00	36.44	264	360	Vertical
4	12580.9500	30.47	-37.49	39.26	-63.02	-25.00	38.02	285	256	Vertical
5	15097.1400	29.63	-34.94	39.09	-61.48	-25.00	36.48	179	360	Vertical
6	17613.3300	30.65	-33.34	39.62	-58.33	-25.00	33.33	222	59	Vertical



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Report No.: SEWM2302000040RG01

Rev.: 01

Page: 74 of 75

Test Band = LTE Band7CA_ TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.5800	40.81	-45.47	32.91	-67.00	-25.00	42.00	207	354	Horizontal
2	7593.8700	38.42	-42.94	36.39	-63.39	-25.00	38.39	146	213	Horizontal
3	10125.1600	34.22	-39.22	38.69	-61.57	-25.00	36.57	180	345	Horizontal
4	12656.4500	31.48	-37.08	39.38	-61.48	-25.00	36.48	259	334	Horizontal
5	15187.7400	28.94	-34.04	38.97	-61.40	-25.00	36.40	138	302	Horizontal
6	17719.0300	31.41	-34.15	40.30	-57.70	-25.00	32.70	175	358	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	5062.5800	41.12	-45.47	32.91	-66.69	-25.00	41.69	204	168	Vertical
2	7593.8700	38.82	-42.94	36.39	-62.99	-25.00	37.99	196	353	Vertical
3	10125.1600	34.20	-39.22	38.69	-61.59	-25.00	36.59	220	214	Vertical
4	12656.4500	31.70	-37.08	39.38	-61.26	-25.00	36.26	135	75	Vertical
5	15187.7400	29.04	-34.04	38.97	-61.30	-25.00	36.30	268	14	Vertical
6	17719.0300	31.62	-34.15	40.30	-57.49	-25.00	32.49	251	30	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.: SEWM2302000040RG01

Rev.: 01

Page: 75 of 75

Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	VH	NT	47.60	0.018851	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	VL	NT	57.20	0.022653	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	VN	NT	50.00	0.019801	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	-30	50.70	0.020078	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	-20	49.60	0.019643	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	-10	48.50	0.019207	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	0	53.40	0.021148	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	10	41.10	0.016277	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	20	52.20	0.020672	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	30	46.90	0.018574	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	40	65.80	0.026058	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	50	37.50	0.014851	PASS

---End of Attachment---



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