

Report No.: SEWM2309000386RG01

Rev.: 01

Page: 1 of 63

Appendix B.9

LTE Band 48



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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 2 of 63

Effective (Isotropic) Radiated Power Output Data

Test Result

ANT7

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/10MHz)	EIRP (dBm/10MHz)	EIRP (dBm/10MHz)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	23.87	21.37	23.00	PASS
Band48	5MHz	QPSK	55265	1RB#12	23.92	21.42	23.00	PASS
Band48	5MHz	QPSK	55265	1RB#24	23.85	21.35	23.00	PASS
Band48	5MHz	QPSK	55265	25RB#0	22.89	20.39	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#0	24.06	21.56	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#12	24.27	21.77	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#24	24.12	21.62	23.00	PASS
Band48	5MHz	QPSK	55990	25RB#0	23.09	20.59	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#0	23.79	21.29	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#12	23.96	21.46	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#24	23.95	21.45	23.00	PASS
Band48	5MHz	QPSK	56715	25RB#0	22.99	20.49	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#0	22.93	20.43	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#12	23.03	20.53	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#24	22.88	20.38	23.00	PASS
Band48	5MHz	16QAM	55265	25RB#0	21.87	19.37	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#0	23.12	20.62	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#12	23.18	20.68	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#24	23.02	20.52	23.00	PASS
Band48	5MHz	16QAM	55990	25RB#0	22.07	19.57	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#0	22.86	20.36	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#12	23.04	20.54	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#24	22.87	20.37	23.00	PASS
Band48	5MHz	16QAM	56715	25RB#0	21.96	19.46	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#0	22.76	20.26	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#12	21.96	19.46	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#24	22.02	19.52	23.00	PASS



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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 3 of 63

Band48	5MHz	64QAM	55265	25RB#0	20.87	18.37	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#0	22.17	19.67	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#12	22.28	19.78	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#24	22.15	19.65	23.00	PASS
Band48	5MHz	64QAM	55990	25RB#0	21.08	18.58	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#0	22.03	19.53	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#12	22.14	19.64	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#24	22.04	19.54	23.00	PASS
Band48	5MHz	64QAM	56715	25RB#0	21.01	18.51	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#0	18.83	16.33	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#12	18.80	16.3	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#24	18.92	16.42	23.00	PASS
Band48	5MHz	256QAM	55265	25RB#0	18.90	16.4	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#0	18.94	16.44	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#12	19.10	16.6	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#24	18.98	16.48	23.00	PASS
Band48	5MHz	256QAM	55990	25RB#0	19.07	16.57	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#0	18.87	16.37	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#12	18.98	16.48	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#24	18.96	16.46	23.00	PASS
Band48	5MHz	256QAM	56715	25RB#0	18.99	16.49	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#0	23.82	21.32	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#24	23.91	21.41	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#49	23.87	21.37	23.00	PASS
Band48	10MHz	QPSK	55290	50RB#0	22.93	20.43	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#0	24.04	21.54	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#24	24.14	21.64	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#49	24.15	21.65	23.00	PASS
Band48	10MHz	QPSK	55990	50RB#0	23.10	20.6	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#0	23.84	21.34	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#24	24.00	21.5	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#49	23.98	21.48	23.00	PASS



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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 4 of 63

Band48	10MHz	QPSK	56690	50RB#0	23.03	20.53	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#0	22.79	20.29	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#24	22.98	20.48	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#49	22.89	20.39	23.00	PASS
Band48	10MHz	16QAM	55290	50RB#0	21.96	19.46	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#0	23.14	20.64	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#24	23.09	20.59	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#49	23.17	20.67	23.00	PASS
Band48	10MHz	16QAM	55990	50RB#0	22.08	19.58	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#0	23.06	20.56	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#24	22.96	20.46	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#49	22.87	20.37	23.00	PASS
Band48	10MHz	16QAM	56690	50RB#0	22.04	19.54	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#0	21.90	19.4	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#24	21.98	19.48	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#49	21.95	19.45	23.00	PASS
Band48	10MHz	64QAM	55290	50RB#0	20.92	18.42	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#0	22.28	19.78	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#24	22.17	19.67	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#49	22.27	19.77	23.00	PASS
Band48	10MHz	64QAM	55990	50RB#0	21.13	18.63	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#0	22.03	19.53	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#24	22.09	19.59	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#49	22.02	19.52	23.00	PASS
Band48	10MHz	64QAM	56690	50RB#0	21.03	18.53	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#0	18.87	16.37	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#24	18.84	16.34	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#49	18.83	16.33	23.00	PASS
Band48	10MHz	256QAM	55290	50RB#0	18.97	16.47	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#0	19.17	16.67	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#24	19.06	16.56	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#49	19.13	16.63	23.00	PASS



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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 5 of 63

Band48	10MHz	256QAM	55990	50RB#0	19.10	16.6	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#0	18.88	16.38	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#24	18.96	16.46	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#49	18.92	16.42	23.00	PASS
Band48	10MHz	256QAM	56690	50RB#0	19.05	16.55	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#0	23.69	21.19	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#38	23.73	21.23	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#74	23.74	21.24	23.00	PASS
Band48	15MHz	QPSK	55315	75RB#0	22.82	20.32	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#0	23.76	21.26	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#38	24.03	21.53	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#74	23.92	21.42	23.00	PASS
Band48	15MHz	QPSK	55990	75RB#0	22.96	20.46	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#0	23.71	21.21	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#38	23.86	21.36	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#74	23.72	21.22	23.00	PASS
Band48	15MHz	QPSK	56665	75RB#0	22.91	20.41	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#0	22.56	20.06	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#38	22.63	20.13	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#74	22.66	20.16	23.00	PASS
Band48	15MHz	16QAM	55315	75RB#0	21.85	19.35	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#0	22.77	20.27	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#38	22.98	20.48	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#74	22.85	20.35	23.00	PASS
Band48	15MHz	16QAM	55990	75RB#0	21.98	19.48	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#0	22.74	20.24	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#38	22.79	20.29	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#74	22.76	20.26	23.00	PASS
Band48	15MHz	16QAM	56665	75RB#0	21.88	19.38	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#0	21.71	19.21	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#38	21.81	19.31	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#74	21.80	19.3	23.00	PASS



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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 6 of 63

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Band48	15MHz	64QAM	55990	1RB#0	22.02	19.52	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#38	22.07	19.57	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#74	21.98	19.48	23.00	PASS
Band48	15MHz	64QAM	55990	75RB#0	20.98	18.48	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#0	21.84	19.34	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#38	21.91	19.41	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#74	21.86	19.36	23.00	PASS
Band48	15MHz	64QAM	56665	75RB#0	20.92	18.42	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#0	18.71	16.21	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#38	18.76	16.26	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#74	18.76	16.26	23.00	PASS
Band48	15MHz	256QAM	55315	75RB#0	18.86	16.36	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#0	18.91	16.41	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#38	18.96	16.46	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#74	18.86	16.36	23.00	PASS
Band48	15MHz	256QAM	55990	75RB#0	19.00	16.5	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#0	18.68	16.18	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#38	18.74	16.24	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#74	18.77	16.27	23.00	PASS
Band48	15MHz	256QAM	56665	75RB#0	18.95	16.45	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#0	23.66	21.16	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#49	23.83	21.33	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#99	23.86	21.36	23.00	PASS
Band48	20MHz	QPSK	55340	100RB#0	22.83	20.33	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#0	24.08	21.58	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#49	24.12	21.62	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#99	23.91	21.41	23.00	PASS
Band48	20MHz	QPSK	55990	100RB#0	22.98	20.48	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#0	23.69	21.19	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#49	23.84	21.34	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#99	23.77	21.27	23.00	PASS



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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 7 of 63

Band48	20MHz	QPSK	56640	100RB#0	22.91	20.41	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#0	22.62	20.12	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#49	22.71	20.21	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#99	22.81	20.31	23.00	PASS
Band48	20MHz	16QAM	55340	100RB#0	21.83	19.33	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#0	22.95	20.45	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#49	23.05	20.55	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#99	22.95	20.45	23.00	PASS
Band48	20MHz	16QAM	55990	100RB#0	21.99	19.49	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#0	22.64	20.14	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#49	22.89	20.39	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#99	22.79	20.29	23.00	PASS
Band48	20MHz	16QAM	56640	100RB#0	21.92	19.42	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#0	21.69	19.19	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#49	21.75	19.25	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#99	21.78	19.28	23.00	PASS
Band48	20MHz	64QAM	55340	100RB#0	20.83	18.33	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#0	21.98	19.48	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#49	22.02	19.52	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#99	22.06	19.56	23.00	PASS
Band48	20MHz	64QAM	55990	100RB#0	20.97	18.47	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#0	21.85	19.35	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#49	21.90	19.4	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#99	21.82	19.32	23.00	PASS
Band48	20MHz	64QAM	56640	100RB#0	20.89	18.39	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#0	18.66	16.16	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#49	18.86	16.36	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#99	18.92	16.42	23.00	PASS
Band48	20MHz	256QAM	55340	100RB#0	18.84	16.34	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#0	18.77	16.27	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#49	19.02	16.52	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#99	19.03	16.53	23.00	PASS



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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 8 of 63

Band48	20MHz	256QAM	55990	100RB#0	18.98	16.48	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#0	18.70	16.2	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#49	18.78	16.28	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#99	18.75	16.25	23.00	PASS
Band48	20MHz	256QAM	56640	100RB#0	18.96	16.46	23.00	PASS



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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 9 of 63

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band48	20MHz	QPSK	55340	100RB#0	7.34	13	PASS
Band48	20MHz	QPSK	55990	100RB#0	7.28	13	PASS
Band48	20MHz	QPSK	56640	100RB#0	7.36	13	PASS
Band48	20MHz	16QAM	55340	100RB#0	7.96	13	PASS
Band48	20MHz	16QAM	55990	100RB#0	8.12	13	PASS
Band48	20MHz	16QAM	56640	100RB#0	8.08	13	PASS
Band48	20MHz	64QAM	55340	100RB#0	8.10	13	PASS
Band48	20MHz	64QAM	55990	100RB#0	8.48	13	PASS
Band48	20MHz	64QAM	56640	100RB#0	8.32	13	PASS
Band48	20MHz	256QAM	55340	100RB#0	8.62	13	PASS
Band48	20MHz	256QAM	55990	100RB#0	8.74	13	PASS
Band48	20MHz	256QAM	56640	100RB#0	8.64	13	PASS



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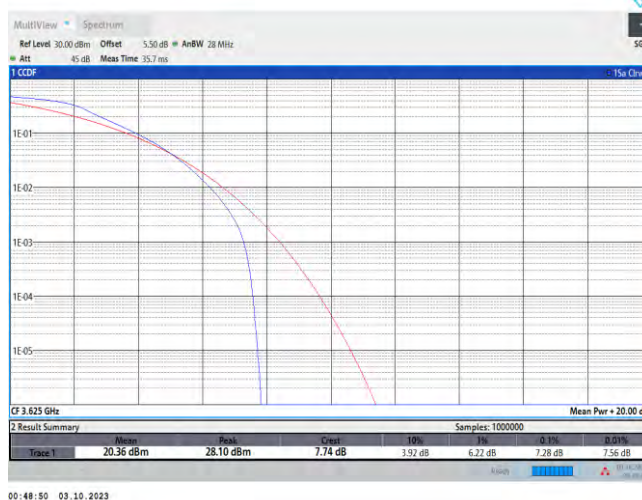
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Test Graphs

Band48-20MHz-QPSK-55340-100RB#0



Band48-20MHz-QPSK-55990-100RB#0



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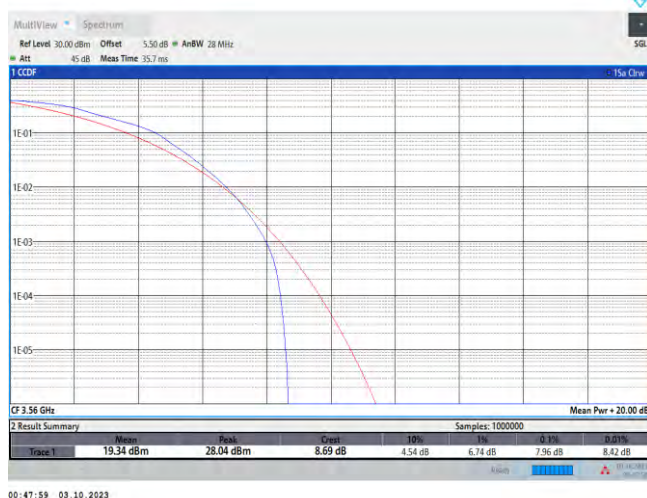
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Page: 11 of 63

Band48-20MHz-QPSK-56640-100RB#0



Band48-20MHz-16QAM-55340-100RB#0



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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 12 of 63

Band48-20MHz-16QAM-55990-100RB#0



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Band48-20MHz-16QAM-56640-100RB#0



00:50:14 03.10.2023



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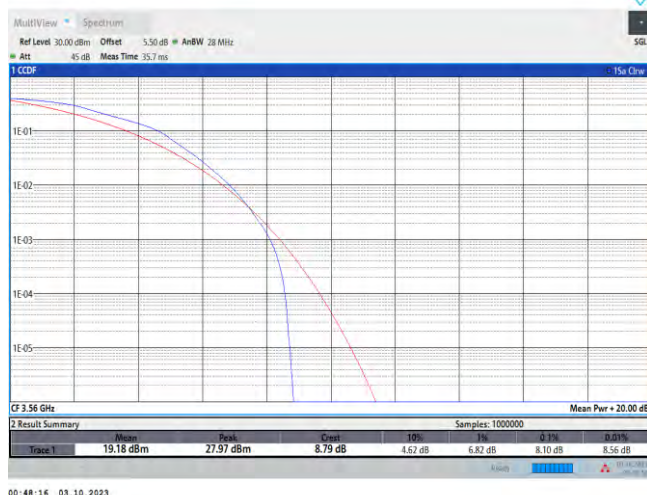
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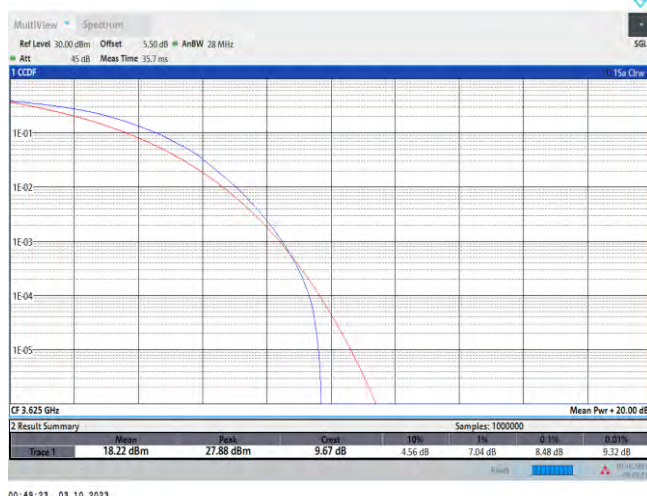
Page: 13 of 63

Band48-20MHz-64QAM-55340-100RB#0



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Band48-20MHz-64QAM-55990-100RB#0



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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 14 of 63

Band48-20MHz-64QAM-56640-100RB#0



Band48-20MHz-256QAM-55340-100RB#0



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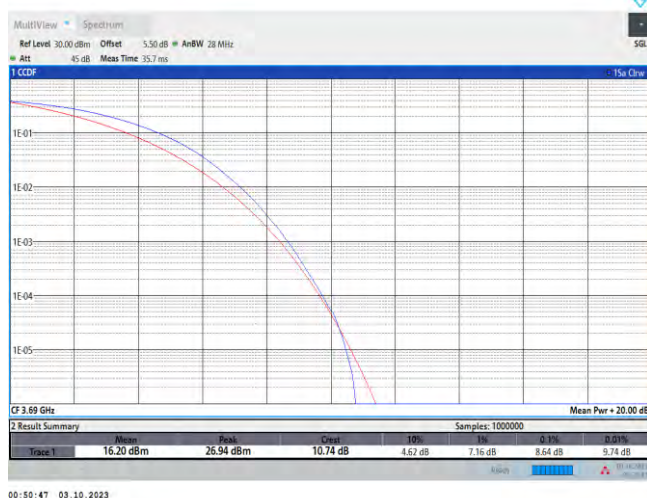
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Band48-20MHz-256QAM-55990-100RB#0



Band48-20MHz-256QAM-56640-100RB#0



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Rev.: 01

Page: 16 of 63

26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band48	5MHz	QPSK	55990	25RB#0	4.515	5.22	PASS
Band48	5MHz	16QAM	55990	25RB#0	4.506	5.19	PASS
Band48	5MHz	64QAM	55990	25RB#0	4.516	5.15	PASS
Band48	5MHz	256QAM	55990	25RB#0	4.508	5.15	PASS
Band48	10MHz	QPSK	55990	50RB#0	8.984	9.97	PASS
Band48	10MHz	16QAM	55990	50RB#0	9.015	10.17	PASS
Band48	10MHz	64QAM	55990	50RB#0	8.979	10.07	PASS
Band48	10MHz	256QAM	55990	50RB#0	9.011	10.10	PASS
Band48	15MHz	QPSK	55990	75RB#0	13.485	15.15	PASS
Band48	15MHz	16QAM	55990	75RB#0	13.464	15.10	PASS
Band48	15MHz	64QAM	55990	75RB#0	13.469	14.95	PASS
Band48	15MHz	256QAM	55990	75RB#0	13.463	15.00	PASS
Band48	20MHz	QPSK	55990	100RB#0	18.023	20.00	PASS
Band48	20MHz	16QAM	55990	100RB#0	18.008	19.93	PASS
Band48	20MHz	64QAM	55990	100RB#0	17.989	20.13	PASS
Band48	20MHz	256QAM	55990	100RB#0	18.033	20.07	PASS



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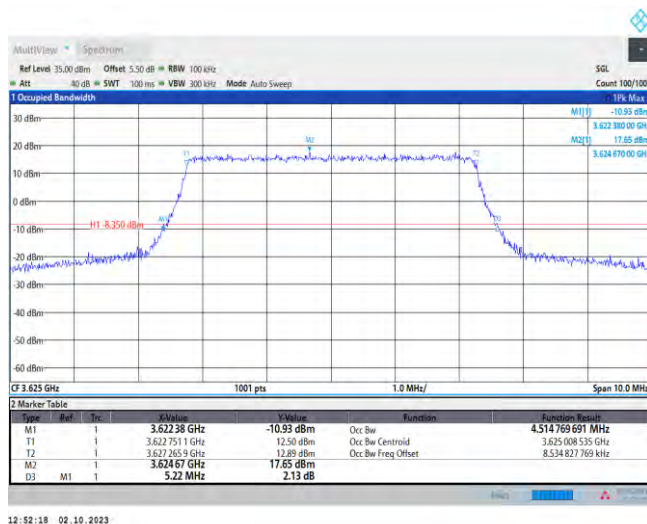
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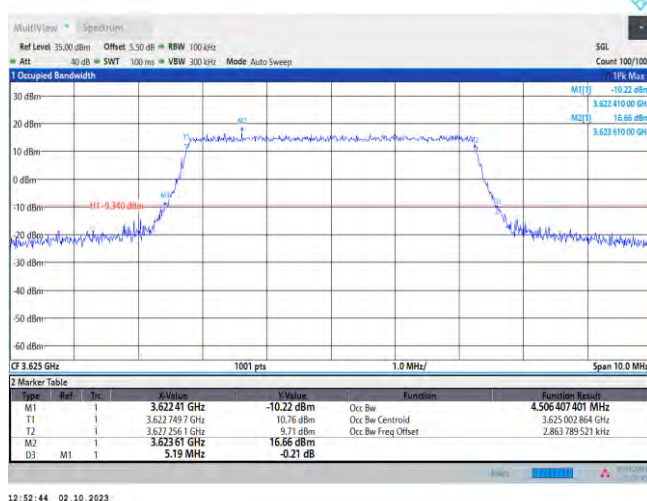
Page: 17 of 63

Test Graphs

Band48-5MHz-QPSK-55990-25RB#0



Band48-5MHz-16QAM-55990-25RB#0



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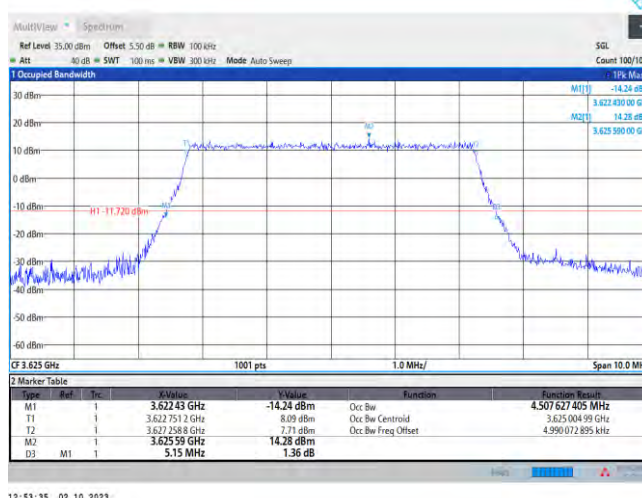
Rev.: 01

Page: 18 of 63

Band48-5MHz-64QAM-55990-25RB#0



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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 19 of 63

Band48-10MHz-QPSK-55990-50RB#0



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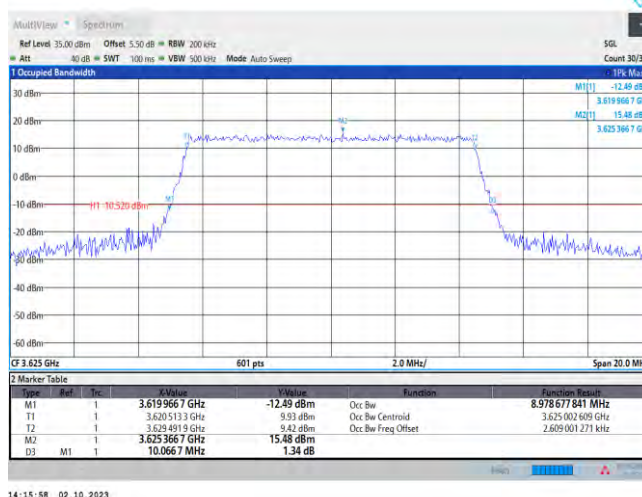
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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 20 of 63

Band48-10MHz-64QAM-55990-50RB#0



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14:16:17 02.10.2023



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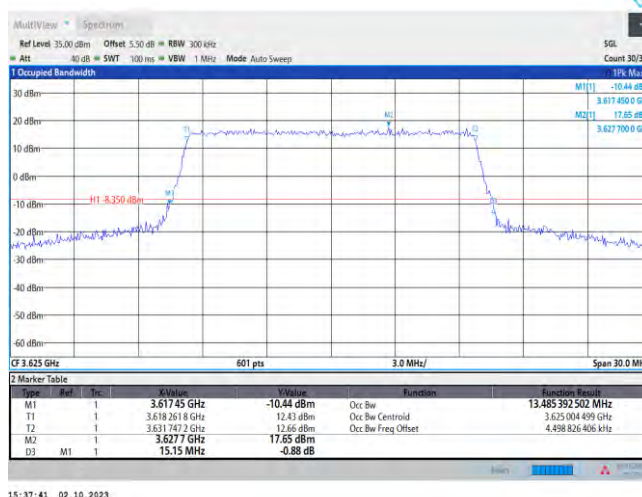
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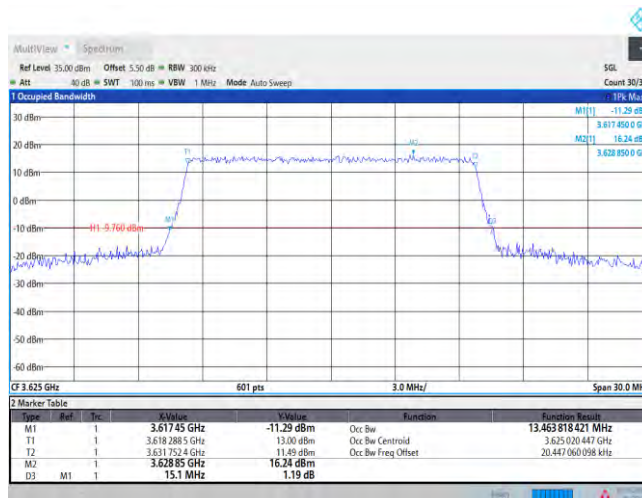
Page: 21 of 63

Band48-15MHz-QPSK-55990-75RB#0



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Band48-15MHz-16QAM-55990-75RB#0



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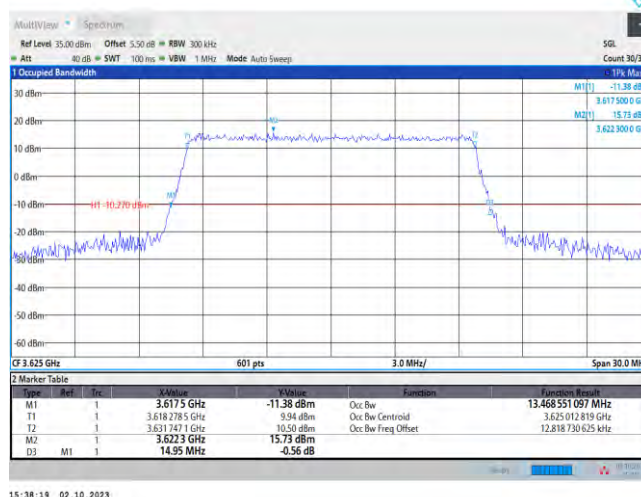
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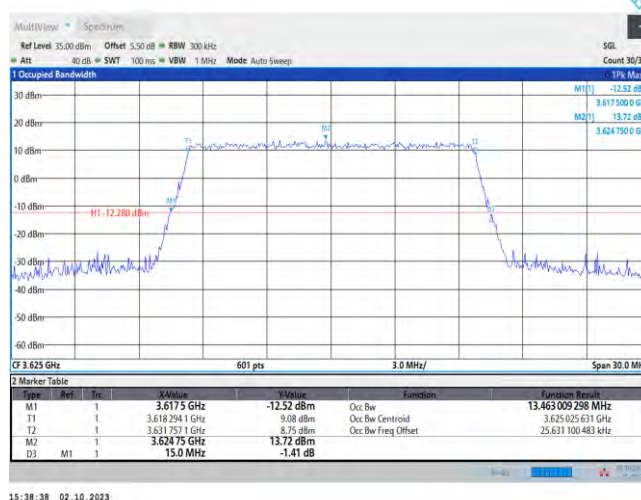
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Band48-15MHz-64QAM-55990-75RB#0



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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 23 of 63

Band48-20MHz-QPSK-55990-100RB#0



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Band48-20MHz-16QAM-55990-100RB#0



17:00:07 02.10.2023



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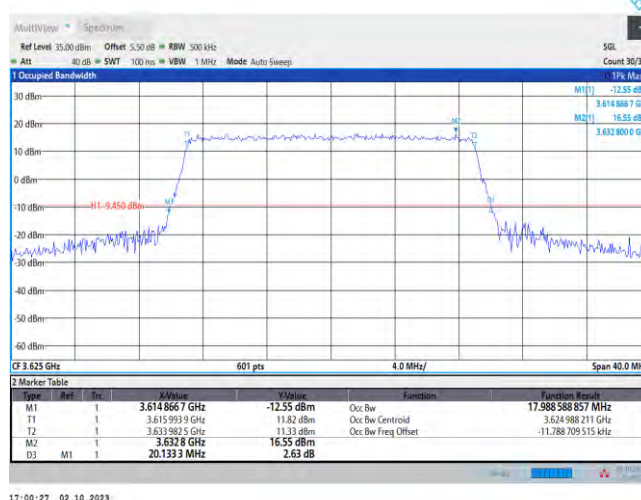
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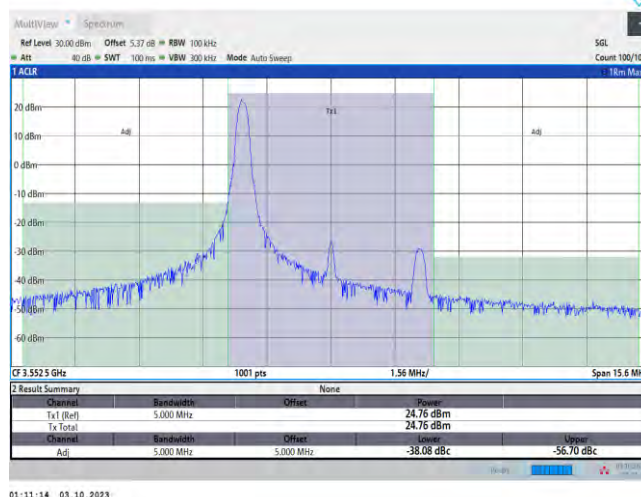
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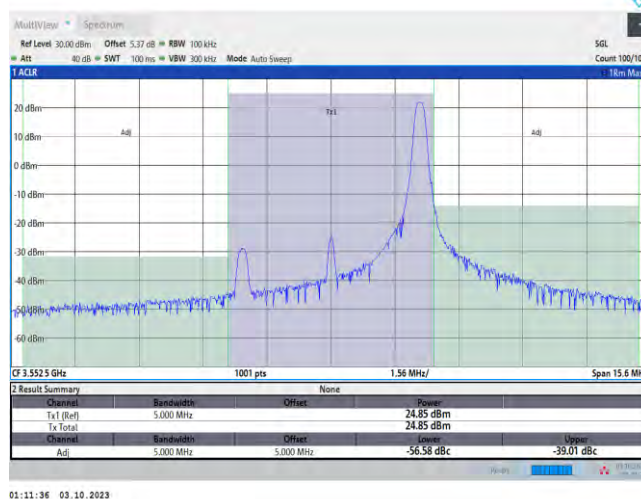
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Test Graphs

Band48-5MHz-QPSK-55265-1RB#0



Band48-5MHz-QPSK-55265-1RB#24



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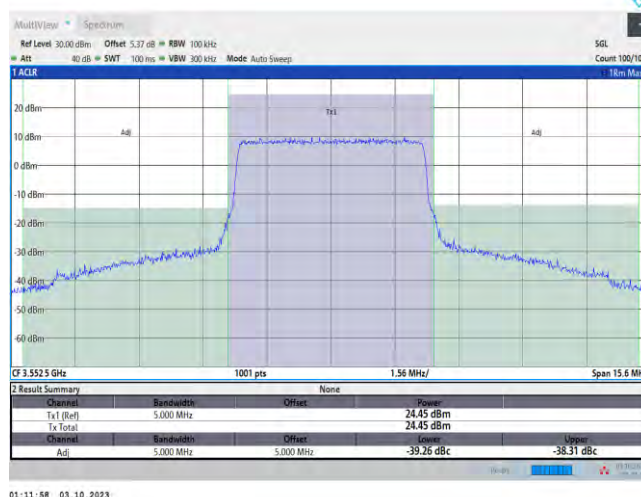
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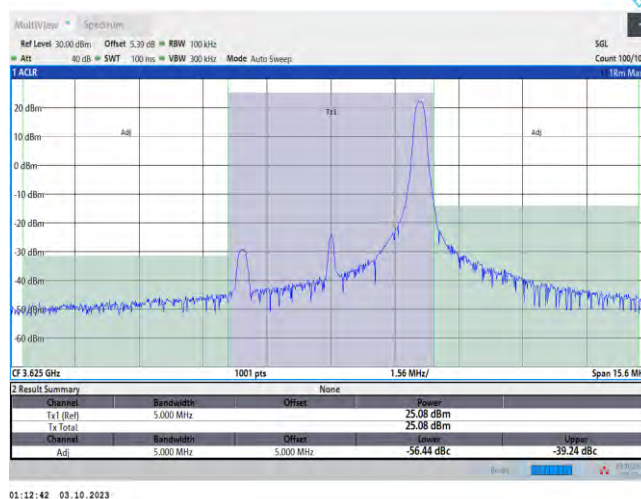
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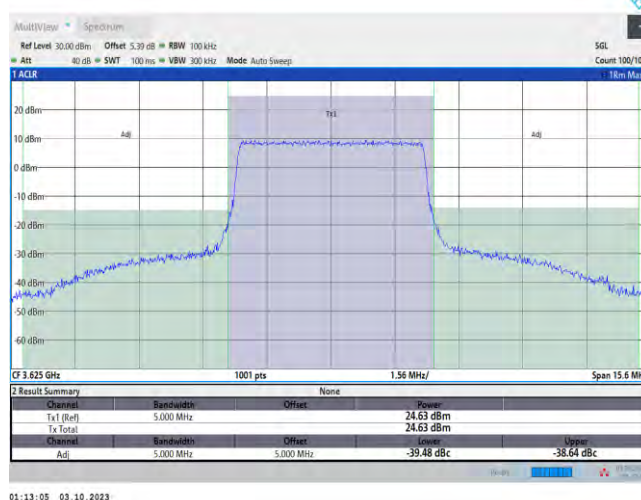
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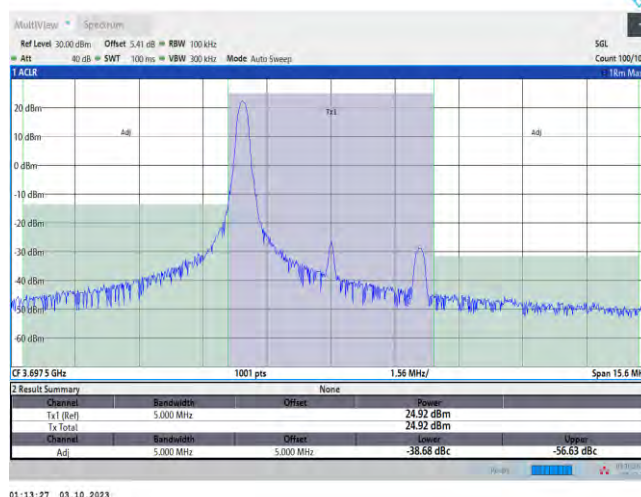
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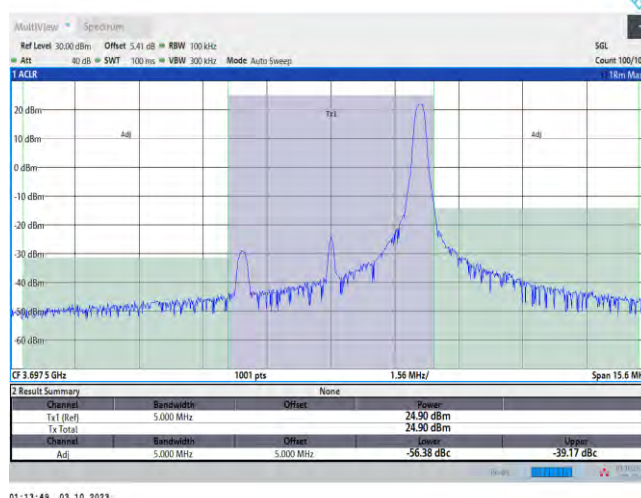
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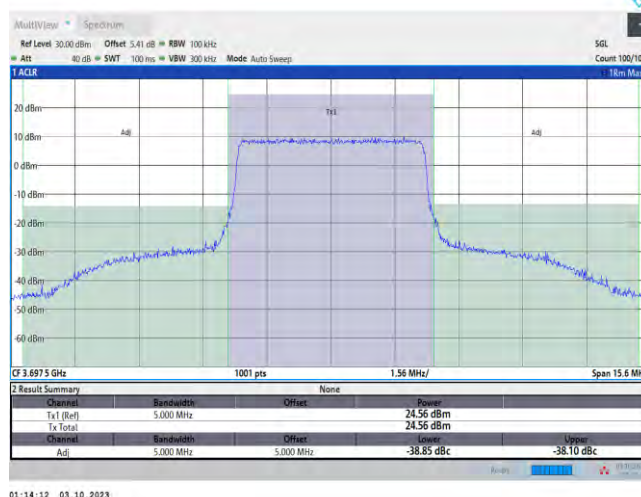
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Page: 29 of 63

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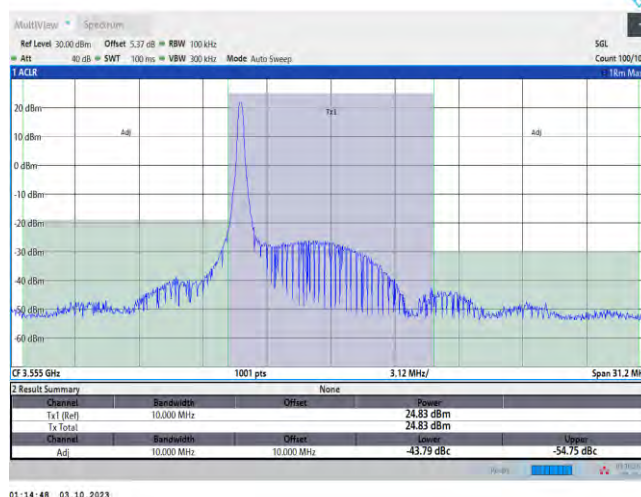
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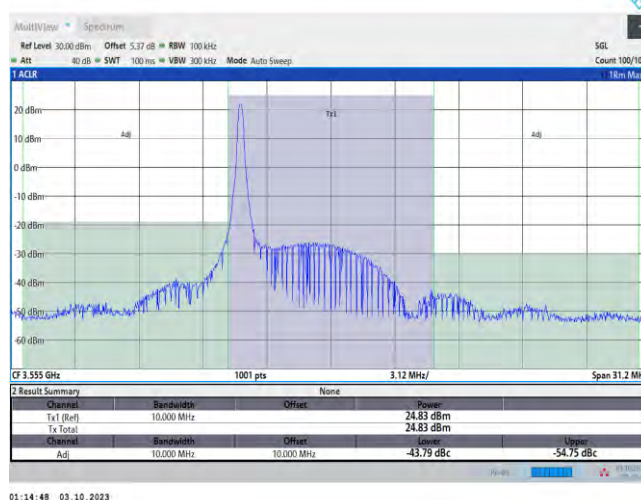
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Page: 30 of 63

Band48-10MHz-QPSK-55290-1RB#0



Band48-10MHz-QPSK-55290-1RB#49



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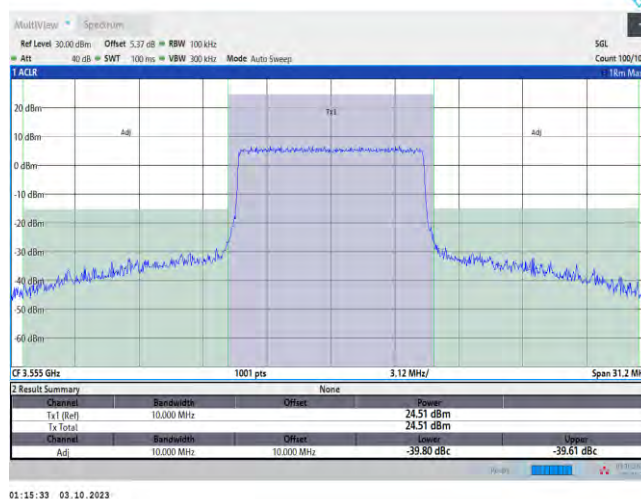
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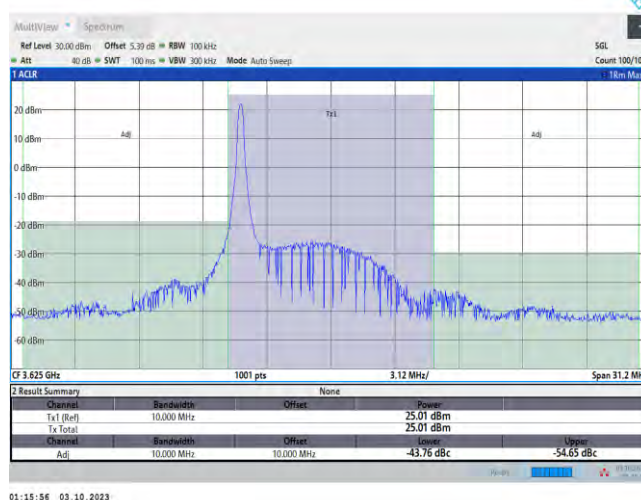
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Page: 31 of 63

Band48-10MHz-QPSK-55290-50RB#0



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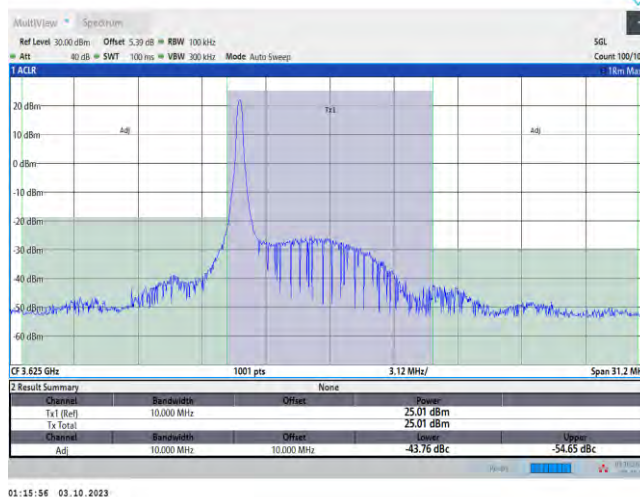
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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 32 of 63

Band48-10MHz-QPSK-55990-1RB#49



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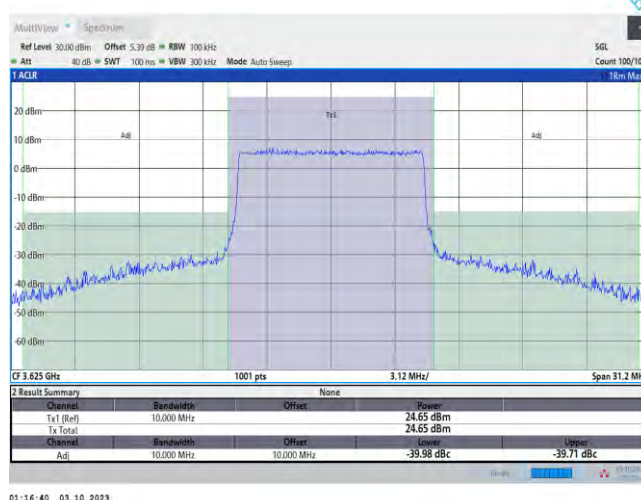
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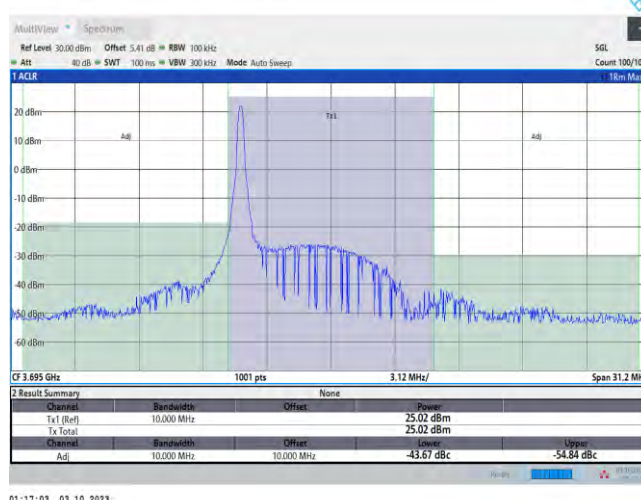
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Page: 33 of 63

Band48-10MHz-QPSK-55990-50RB#0



Band48-10MHz-QPSK-56690-1RB#0



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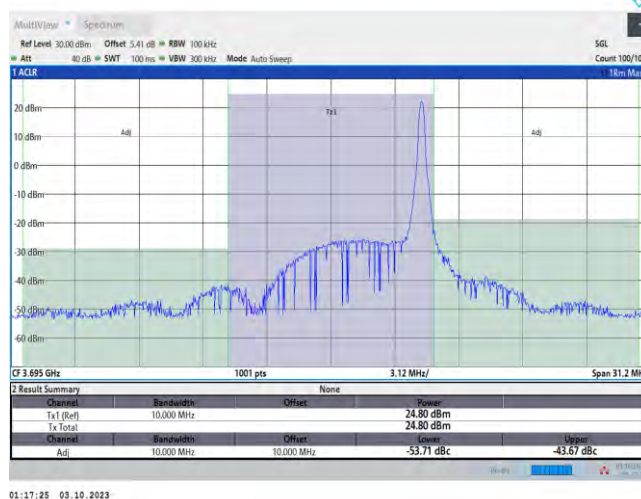
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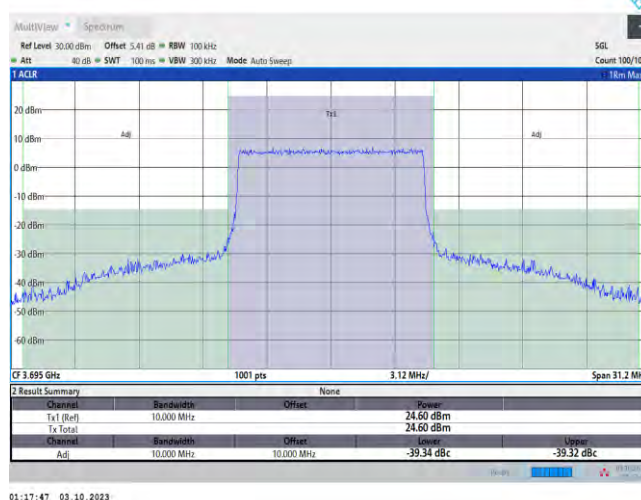
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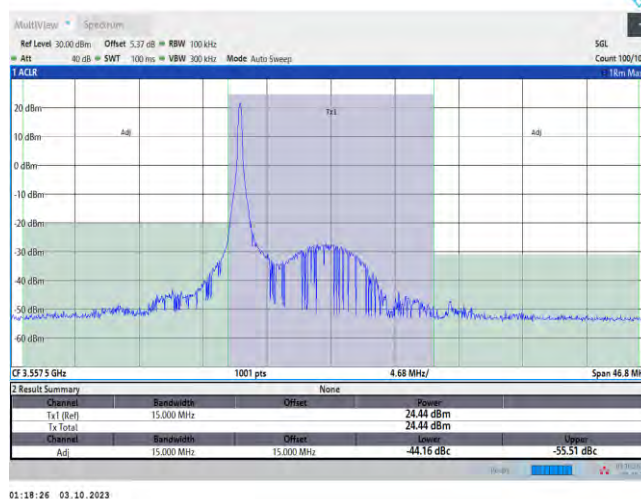
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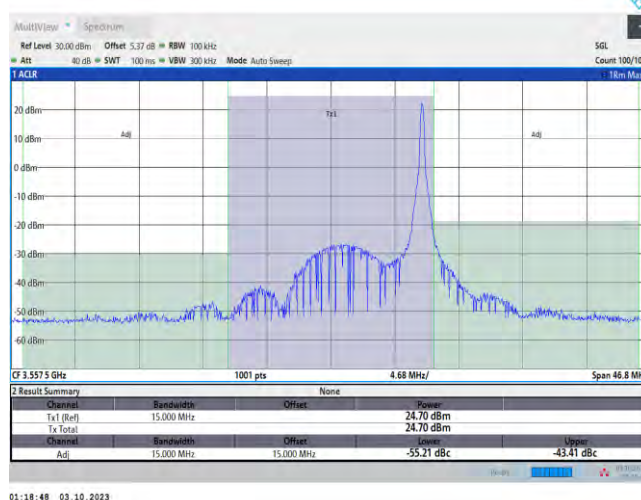
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Band48-15MHz-QPSK-55315-1RB#0



Band48-15MHz-QPSK-55315-1RB#74



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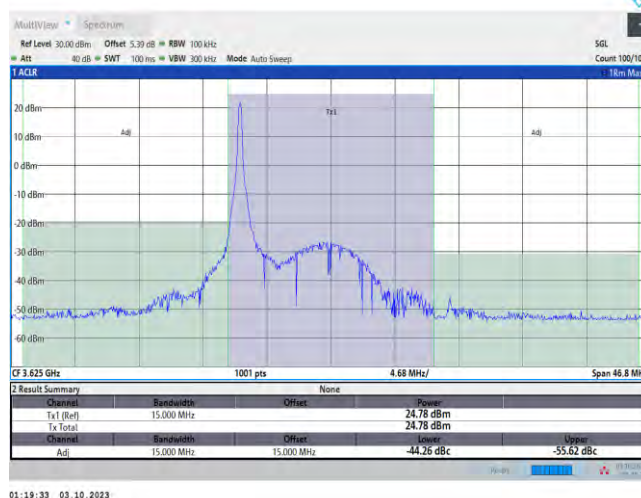
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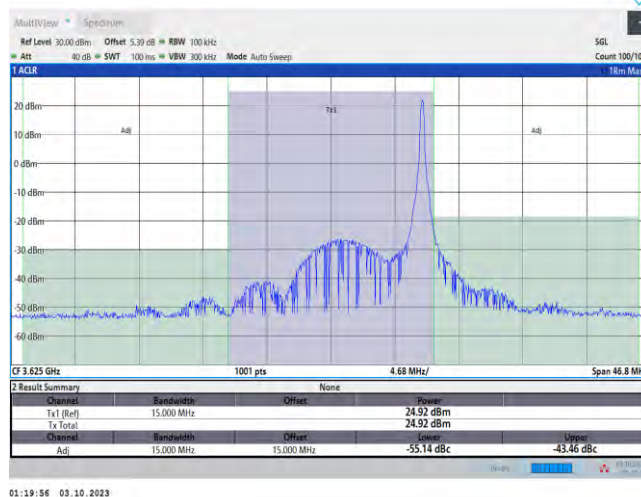
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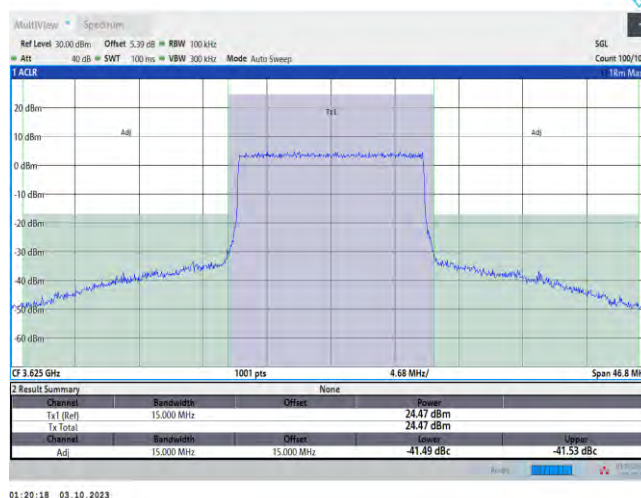
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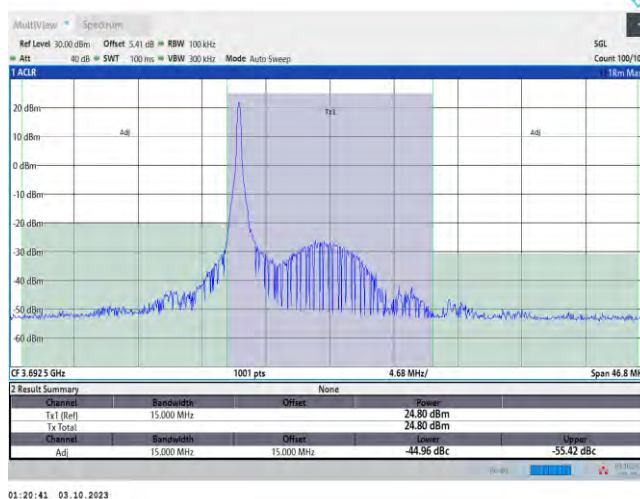
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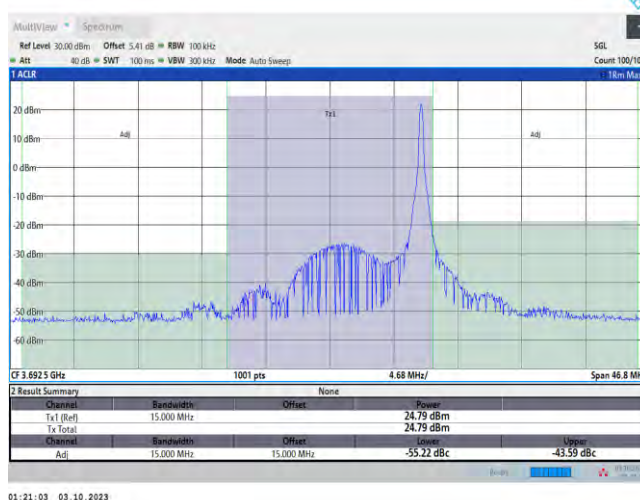
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Band48-15MHz-QPSK-56665-1RB#0



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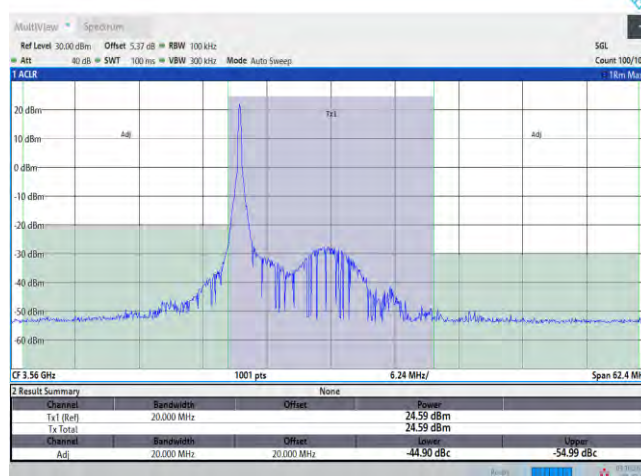
Page: 39 of 63

Band48-15MHz-QPSK-56665-75RB#0



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Band48-20MHz-QPSK-55340-1RB#0



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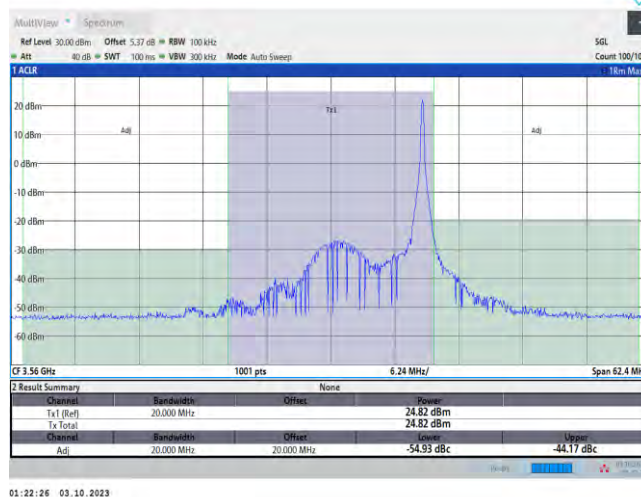
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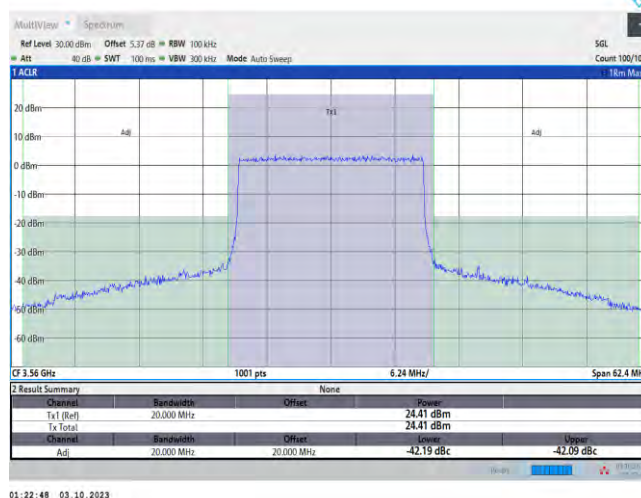
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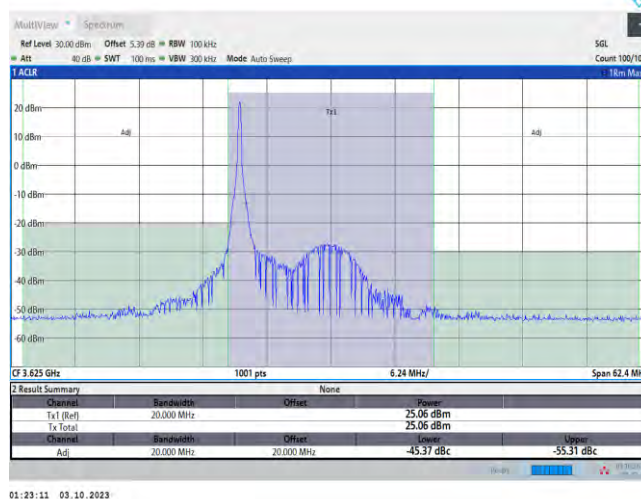
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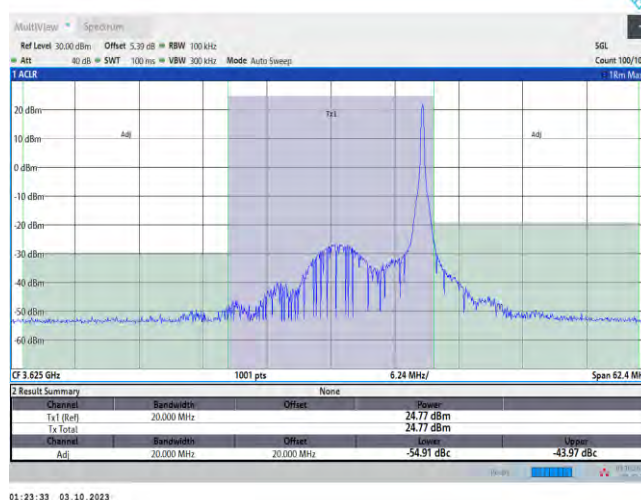
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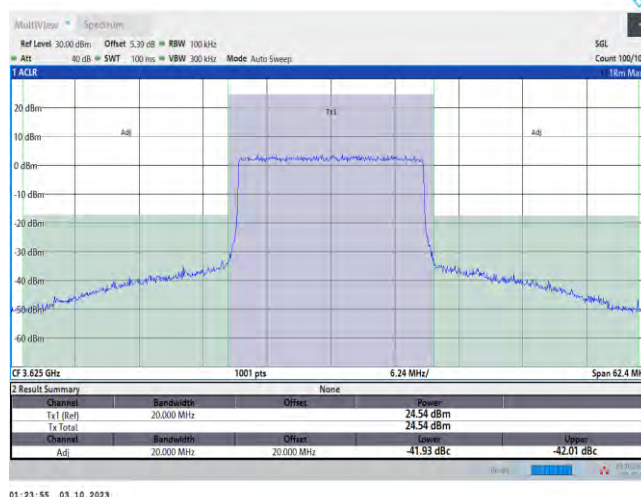
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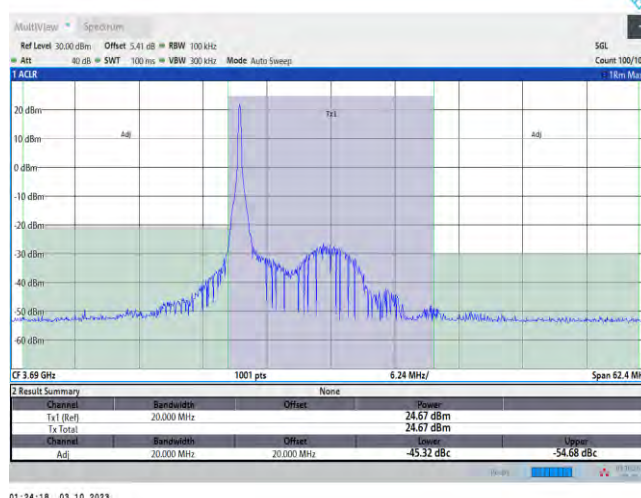
Page: 42 of 63

Band48-20MHz-QPSK-55990-100RB#0



01:23:55 03.10.2023

Band48-20MHz-QPSK-56640-1RB#0



01:24:18 03.10.2023



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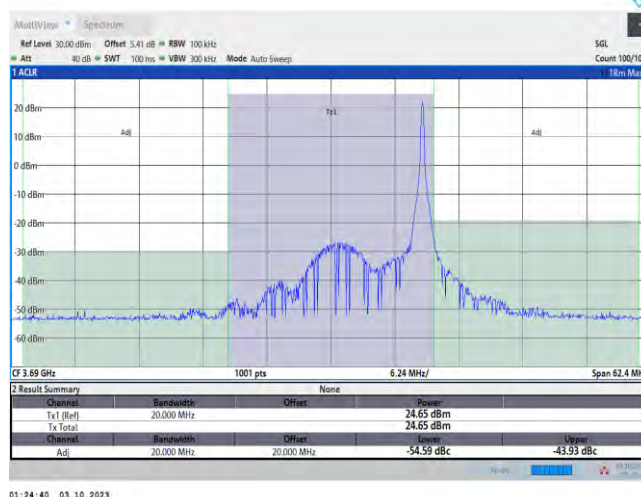
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Rev.: 01

Page: 43 of 63

Band48-20MHz-QPSK-56640-1RB#99



01:24:40 03.10.2023

Band48-20MHz-QPSK-56640-100RB#0



01:25:02 03.10.2023



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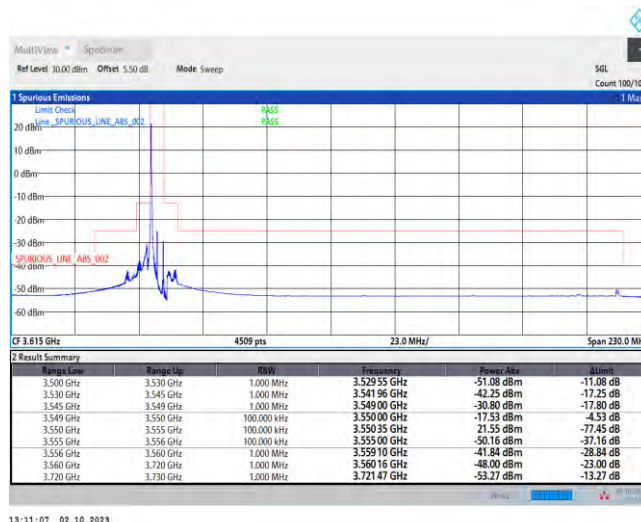
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Page: 44 of 63

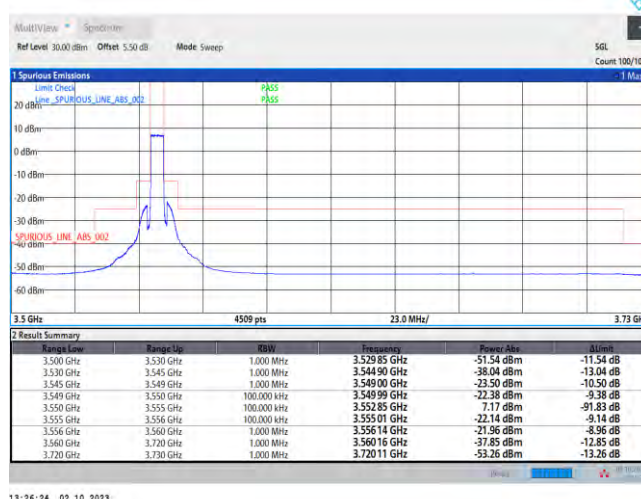
Band Edge

Test Graphs

Band48-5MHz-QPSK-55265-1RB#0



Band48-5MHz-QPSK-55265-25RB#0



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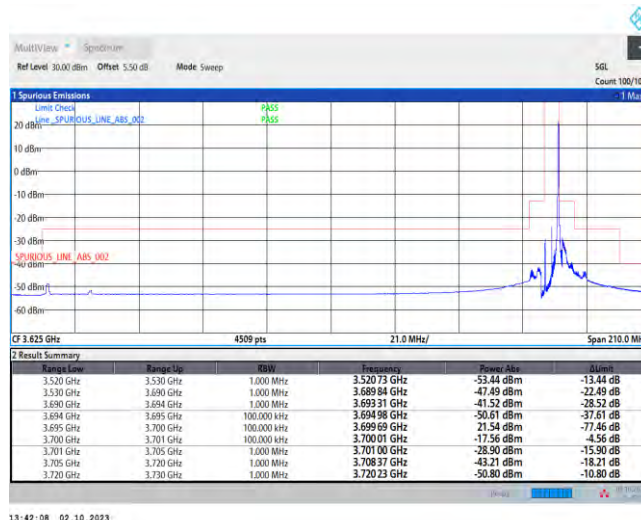
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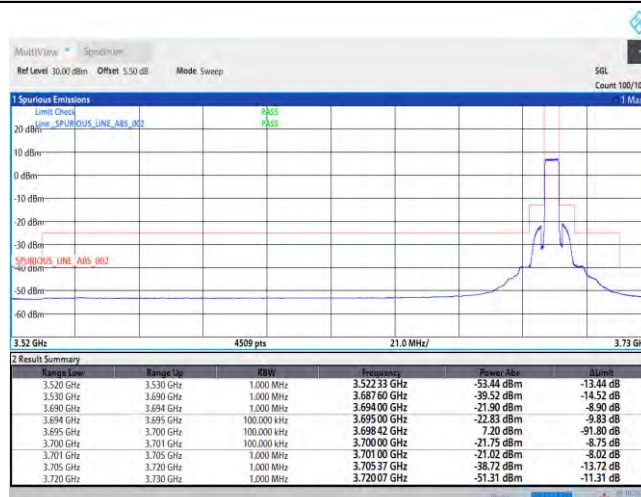
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Band48-5MHz-QPSK-56715-1RB#24



13:42:08 02.10.2023

Band48-5MHz-QPSK-56715-25RB#0



13:57:25 02.10.2023



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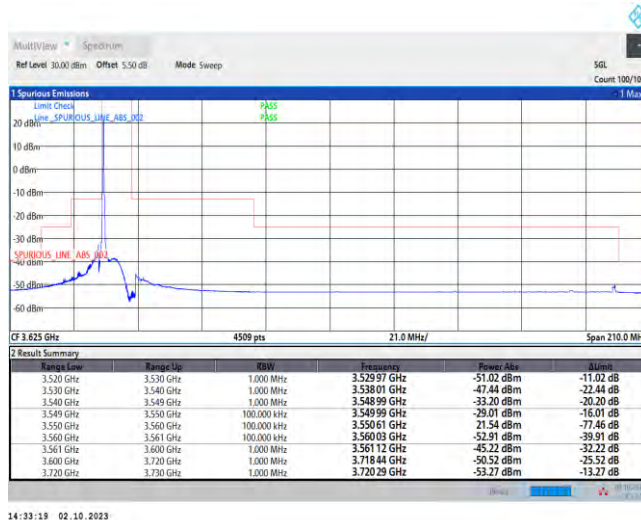
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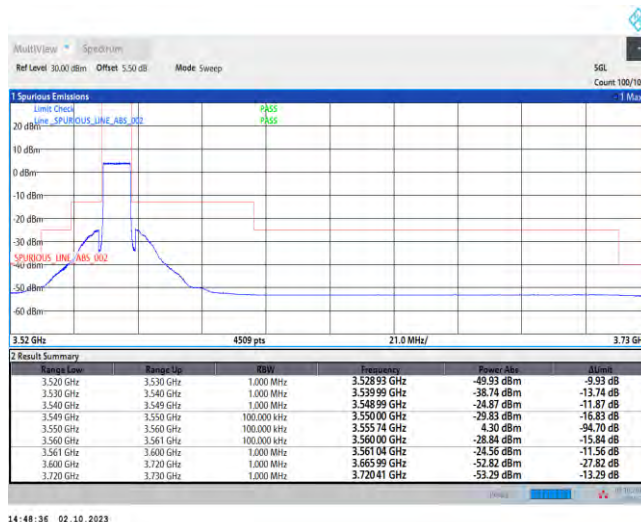
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Band48-10MHz-QPSK-55290-1RB#0



Band48-10MHz-QPSK-55290-50RB#0



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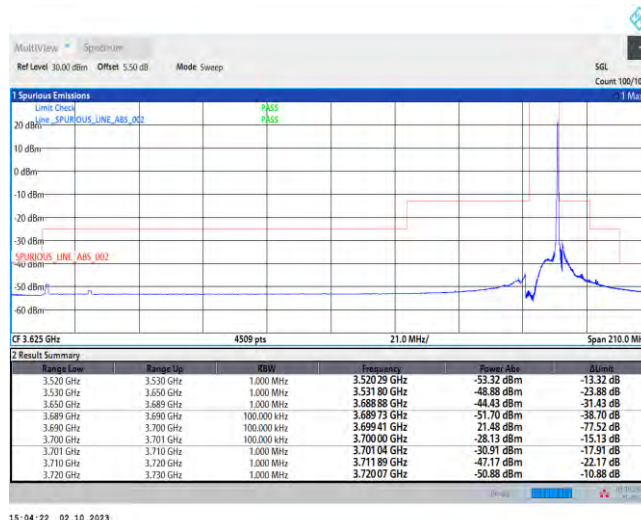
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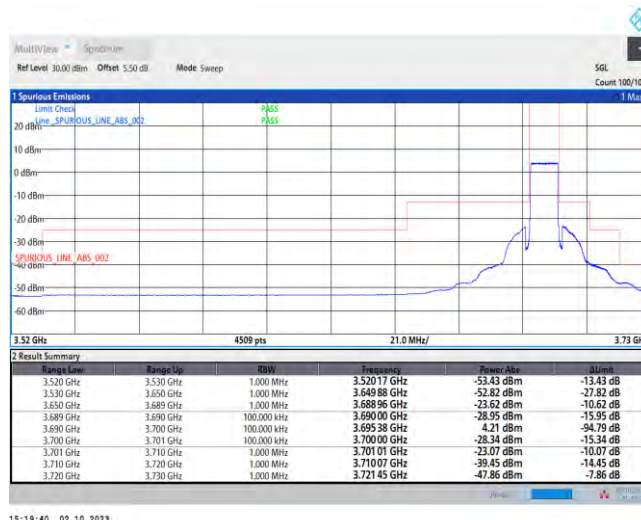
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Band48-10MHz-QPSK-56690-1RB#49



15:04:22 02.10.2023

Band48-10MHz-QPSK-56690-50RB#0



15:19:40 02.10.2023



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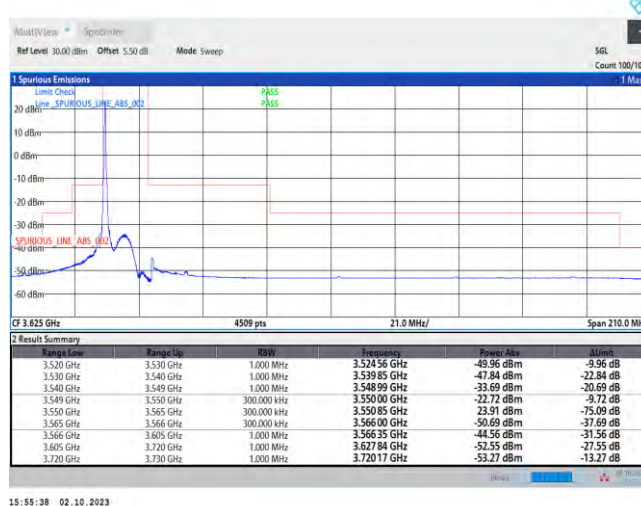
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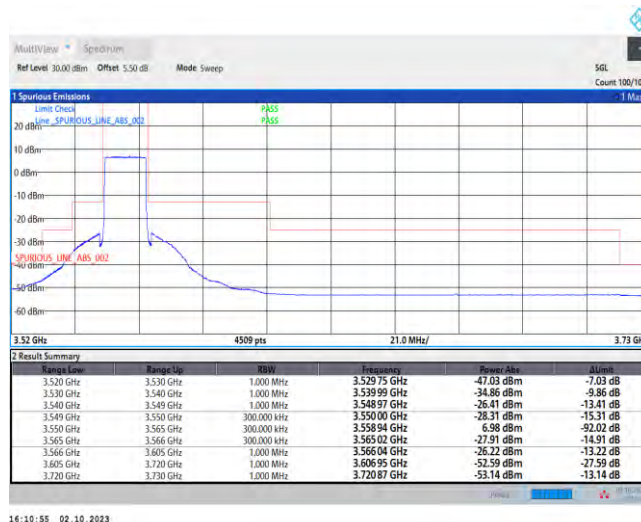
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Band48-15MHz-QPSK-55315-1RB#0



Band48-15MHz-QPSK-55315-75RB#0



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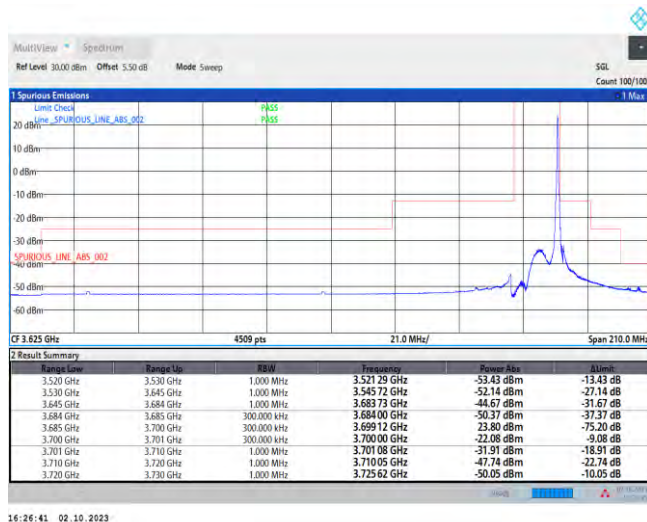
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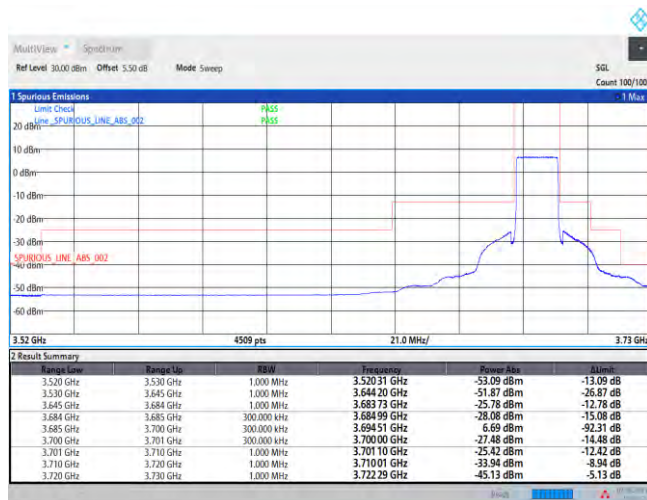
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Band48-15MHz-QPSK-56665-1RB#74



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Band48-15MHz-QPSK-56665-75RB#0



16:41:58 02.10.2023



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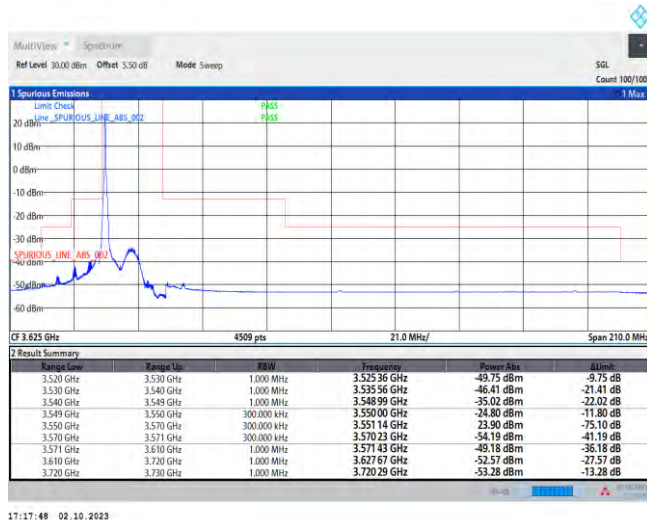
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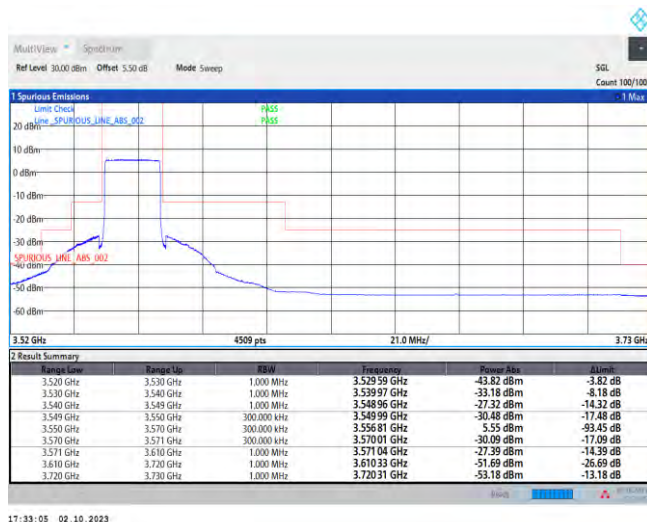
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Band48-20MHz-QPSK-55340-1RB#0



Band48-20MHz-QPSK-55340-100RB#0



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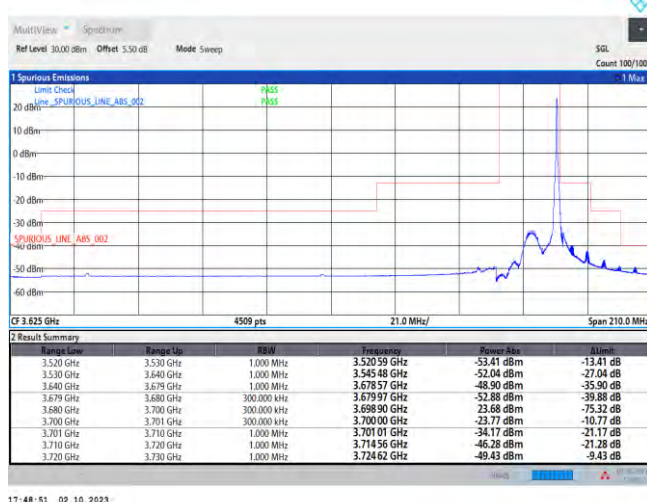
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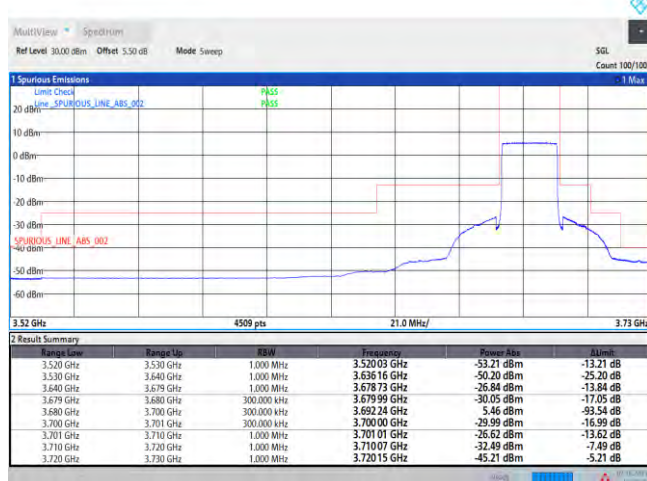
Page: 51 of 63

Band48-20MHz-QPSK-56640-1RB#99



17:48:51 02.10.2023

Band48-20MHz-QPSK-56640-100RB#0



18:04:08 02.10.2023



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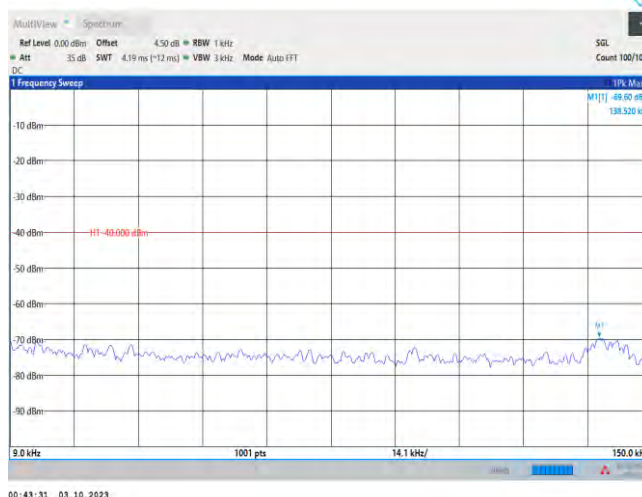
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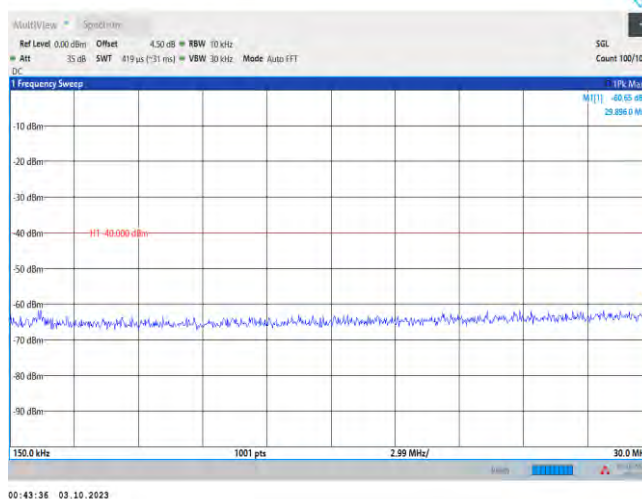
Conducted Spurious Emission

Test Graphs

Band48-20MHz-QPSK-55340-1RB#0-Range1:0.009~0.15MHz



Band48-20MHz-QPSK-55340-1RB#0-Range2:0.15~30MHz



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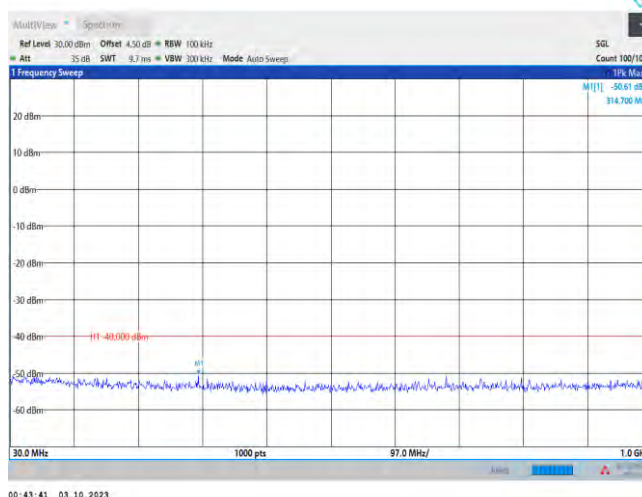
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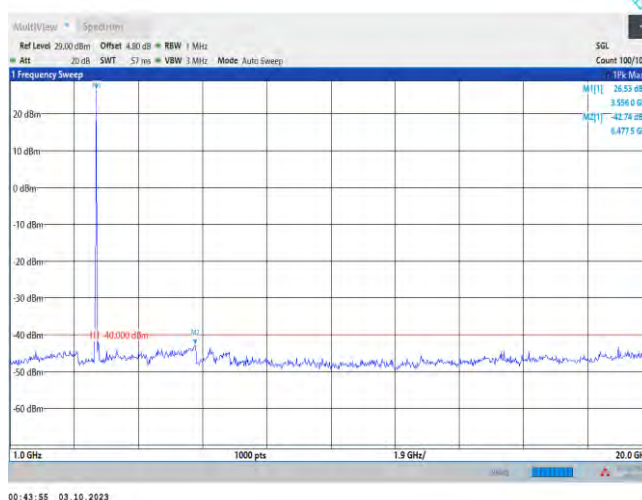
Rev.: 01

Page: 53 of 63

Band48-20MHz-QPSK-55340-1RB#0-Range3:30~1000MHz



Band48-20MHz-QPSK-55340-1RB#0-Range4:1000~20000MHz



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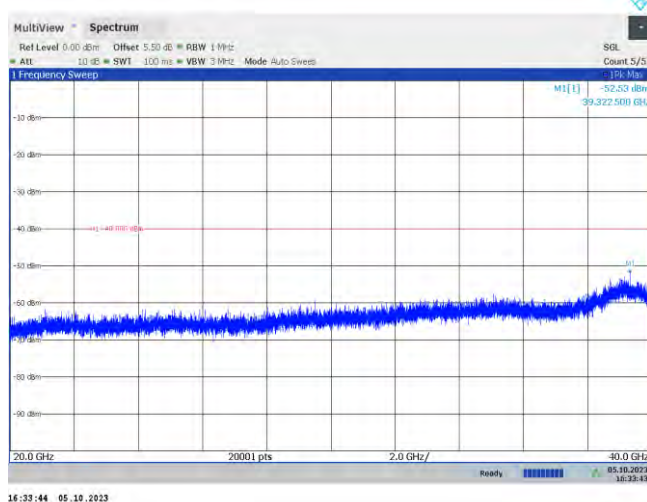
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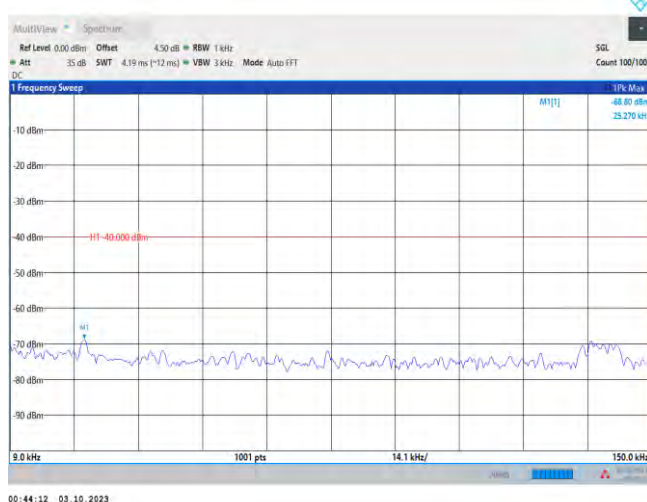
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Page: 54 of 63

Band48-20MHz-QPSK-55340-1RB#0-Range5:20000~38000MHz



Band48-20MHz-QPSK-55990-1RB#0-Range1:0.009~0.15MHz



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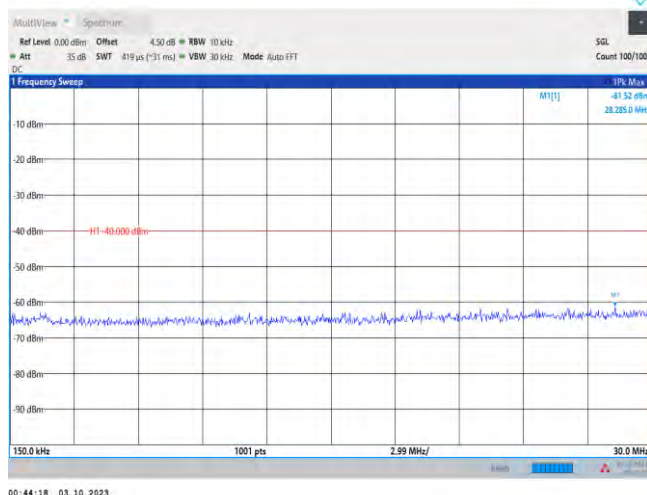
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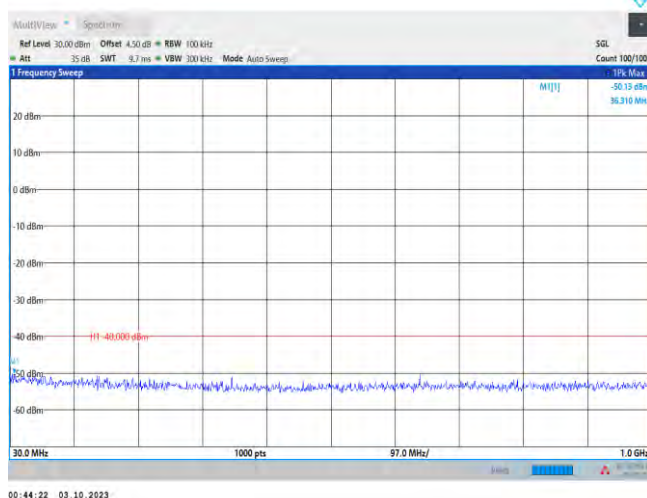
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Band48-20MHz-QPSK-55990-1RB#0-Range2:0.15~30MHz



Band48-20MHz-QPSK-55990-1RB#0-Range3:30~1000MHz



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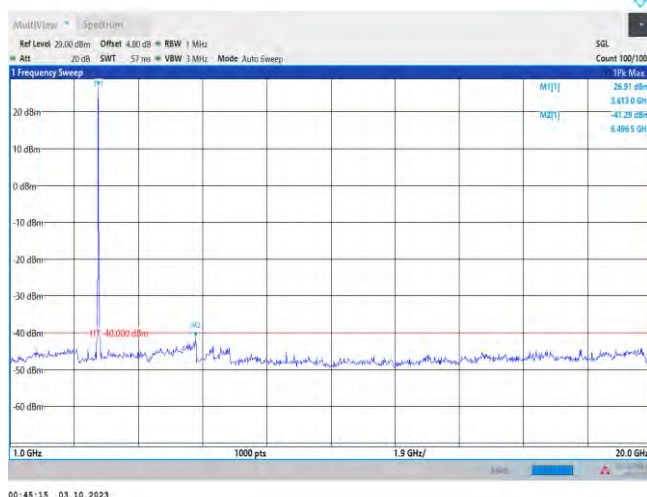
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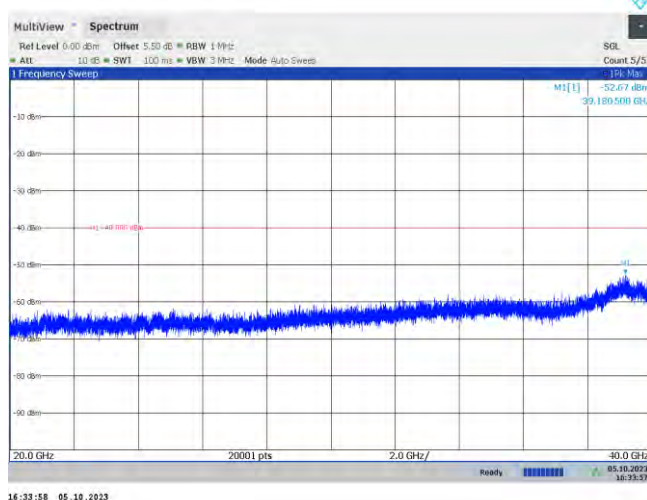
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Page: 56 of 63

Band48-20MHz-QPSK-55990-1RB#0-Range4:1000~20000MHz



Band48-20MHz-QPSK-55990-1RB#0-Range5:20000~38000MHz



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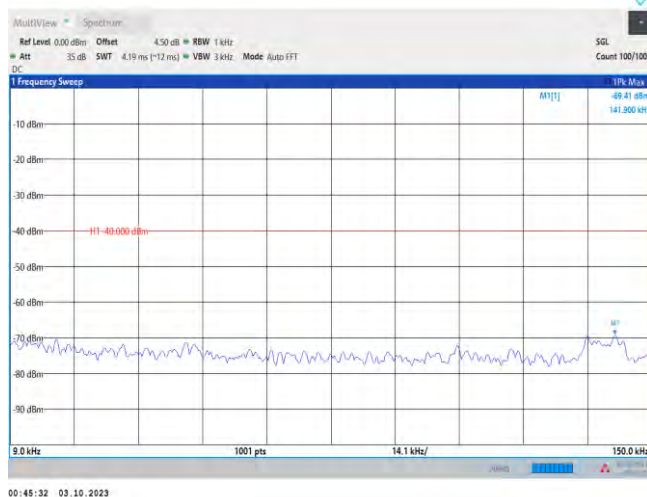
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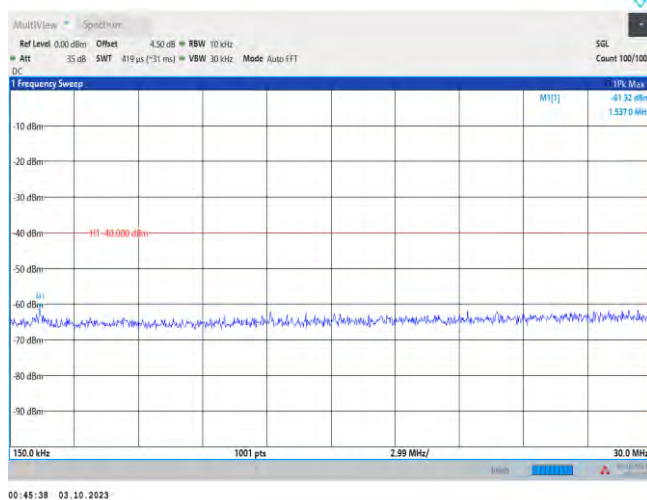
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Page: 57 of 63

Band48-20MHz-QPSK-56640-1RB#0-Range1:0.009~0.15MHz



Band48-20MHz-QPSK-56640-1RB#0-Range2:0.15~30MHz



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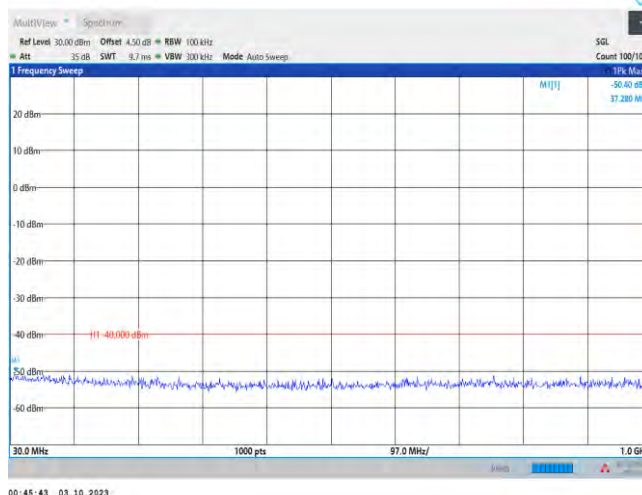
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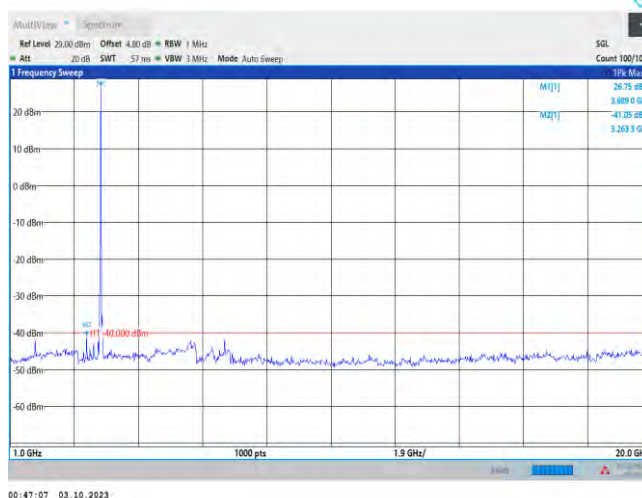
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Page: 58 of 63

Band48-20MHz-QPSK-56640-1RB#0-Range3:30~1000MHz



Band48-20MHz-QPSK-56640-1RB#0-Range4:1000~20000MHz



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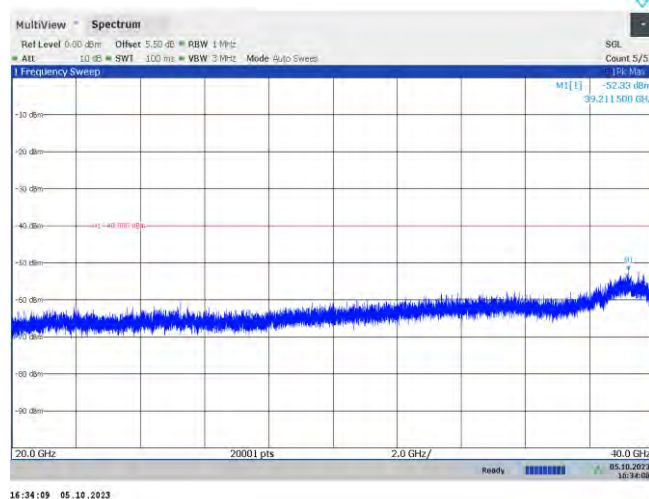
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Band48-20MHz-QPSK-56640-1RB#0-Range5:20000~38000MHz



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Rev.: 01

Page: 60 of 63

Field Strength of Spurious Radiation

Test Band = LTE Band 48_ TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7243.6667	44.22	-45.69	36.18	-60.55	-40.00	20.55	Horizontal
2	9323.25	42.34	-42.91	37.89	-57.94	-40.00	17.94	Horizontal
3	11384.625	38.63	-39.82	39.32	-57.13	-40.00	17.13	Horizontal
4	13906.9583	37.50	-38.40	40.69	-55.47	-40.00	15.47	Horizontal
5	14841.8125	36.81	-37.90	40.23	-56.12	-40.00	16.12	Horizontal
6	17984.1875	36.85	-37.02	45.20	-50.24	-40.00	10.24	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7235.5208	44.06	-45.65	36.17	-60.68	-40.00	20.68	Vertical
2	7869.9375	43.79	-44.95	36.36	-60.06	-40.00	20.06	Vertical
3	9302.6458	42.18	-42.94	37.87	-58.14	-40.00	18.14	Vertical
4	10761.2292	40.20	-40.59	39.19	-56.46	-40.00	16.46	Vertical
5	14175.2917	37.50	-38.30	40.76	-55.30	-40.00	15.30	Vertical
6	17966.9375	36.94	-37.07	45.09	-50.30	-40.00	10.30	Vertical



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Rev.: 01

Page: 61 of 63

Test Band = LTE Band 48_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7864.6667	43.50	-44.95	36.36	-60.34	-40.00	20.34	Horizontal
2	9307.4375	41.60	-42.93	37.88	-58.71	-40.00	18.71	Horizontal
3	10791.4167	39.14	-40.48	39.21	-57.39	-40.00	17.39	Horizontal
4	12058.3333	38.37	-39.05	39.17	-56.77	-40.00	16.77	Horizontal
5	15271.1458	37.85	-37.99	39.58	-55.82	-40.00	15.82	Horizontal
6	17977.9583	37.05	-37.04	45.16	-50.09	-40.00	10.09	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7857	43.25	-44.94	36.37	-60.58	-40.00	20.58	Vertical
2	9572.4167	40.75	-41.98	38.12	-58.38	-40.00	18.38	Vertical
3	10769.375	39.29	-40.56	39.19	-57.34	-40.00	17.34	Vertical
4	13542.7917	38.16	-38.67	39.85	-55.92	-40.00	15.92	Vertical
5	14816.8958	37.67	-37.69	40.25	-55.03	-40.00	15.03	Vertical
6	17966.4583	36.64	-37.07	45.09	-50.61	-40.00	10.61	Vertical



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Rev.: 01

Page: 62 of 63

Test Band = LTE Band 48_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7159.3333	44.71	-45.72	35.98	-60.29	-40.00	20.29	Horizontal
2	7853.6458	43.20	-44.94	36.38	-60.62	-40.00	20.62	Horizontal
3	9902.0833	40.46	-41.81	38.41	-58.20	-40.00	18.20	Horizontal
4	13709.5417	37.38	-38.00	40.23	-55.65	-40.00	15.65	Horizontal
5	15396.6875	37.64	-37.85	39.35	-56.12	-40.00	16.12	Horizontal
6	17971.7292	36.91	-37.06	45.12	-50.29	-40.00	10.29	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7679.2292	43.47	-45.09	36.58	-60.29	-40.00	20.29	Vertical
2	9306.9583	41.85	-42.93	37.88	-58.46	-40.00	18.46	Vertical
3	12074.625	38.19	-39.19	39.16	-57.10	-40.00	17.10	Vertical
4	13958.2292	37.76	-38.81	40.80	-55.50	-40.00	15.50	Vertical
5	16275.4792	37.50	-37.96	38.39	-57.33	-40.00	17.33	Vertical
6	17972.6875	36.51	-37.06	45.13	-50.68	-40.00	10.68	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

2) All antennas of RSE are tested, and only the worst data is presented.



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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 63 of 63

Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band48	20MHz	QPSK	55990	100RB#0	VL	NT	-0.30	-0.000083	PASS
Band48	20MHz	QPSK	55990	100RB#0	VN	NT	2.00	0.000552	PASS
Band48	20MHz	QPSK	55990	100RB#0	VH	NT	1.20	0.000331	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band48	20MHz	QPSK	55990	100RB#0	NV	-30	0.10	0.000028	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-20	0.40	0.000110	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-10	1.50	0.000526	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	0	1.00	0.000276	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	10	1.70	0.000469	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	20	-1.60	-0.000441	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	30	1.40	0.000386	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	40	-0.30	-0.000083	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	50	-1.00	-0.000276	PASS

---End of Attachment---



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