



Report No.: SEWM2308000313RG01

Rev.: 01

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# Appendix B.12

## LTE Band 48



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### Effective (Isotropic) Radiated Power Output Data

#### Test Result

#### ANT5

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	22.98	22.48	23.00	PASS
Band48	5MHz	QPSK	55265	1RB#12	22.99	22.49	23.00	PASS
Band48	5MHz	QPSK	55265	1RB#24	22.99	22.49	23.00	PASS
Band48	5MHz	QPSK	55265	25RB#0	22.01	21.51	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#0	23.12	22.62	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#12	22.84	22.34	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#24	22.81	22.31	23.00	PASS
Band48	5MHz	QPSK	55990	25RB#0	21.9	21.4	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#0	22.97	22.47	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#12	22.57	22.07	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#24	22.56	22.06	23.00	PASS
Band48	5MHz	QPSK	56715	25RB#0	21.6	21.1	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#0	22.03	21.53	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#12	22.02	21.52	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#24	22.04	21.54	23.00	PASS
Band48	5MHz	16QAM	55265	25RB#0	20.94	20.44	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#0	21.83	21.33	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#12	21.85	21.35	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#24	21.9	21.4	23.00	PASS
Band48	5MHz	16QAM	55990	25RB#0	20.82	20.32	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#0	21.58	21.08	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#12	21.66	21.16	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#24	21.63	21.13	23.00	PASS
Band48	5MHz	16QAM	56715	25RB#0	20.55	20.05	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#0	20.68	20.18	23.00	PASS



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Band48	5MHz	64QAM	55265	1RB#12	20.7	20.2	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#24	20.68	20.18	23.00	PASS
Band48	5MHz	64QAM	55265	25RB#0	20.03	19.53	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#0	20.54	20.04	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#12	20.79	20.29	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#24	20.54	20.04	23.00	PASS
Band48	5MHz	64QAM	55990	25RB#0	19.9	19.4	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#0	20.27	19.77	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#12	20.28	19.78	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#24	20.27	19.77	23.00	PASS
Band48	5MHz	64QAM	56715	25RB#0	19.62	19.12	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#0	17.87	17.37	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#12	17.86	17.36	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#24	17.88	17.38	23.00	PASS
Band48	5MHz	256QAM	55265	25RB#0	18.04	17.54	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#0	17.73	17.23	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#12	17.76	17.26	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#24	17.73	17.23	23.00	PASS
Band48	5MHz	256QAM	55990	25RB#0	17.94	17.44	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#0	17.46	16.96	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#12	17.43	16.93	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#24	17.46	16.96	23.00	PASS
Band48	5MHz	256QAM	56715	25RB#0	17.67	17.17	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#0	22.96	22.46	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#24	22.97	22.47	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#49	23	22.5	23.00	PASS
Band48	10MHz	QPSK	55290	50RB#0	22.08	21.58	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#0	22.47	21.97	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#24	22.86	22.36	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#49	22.84	22.34	23.00	PASS
Band48	10MHz	QPSK	55990	50RB#0	21.94	21.44	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#0	23.1	22.6	23.00	PASS



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Band48	10MHz	QPSK	56690	1RB#24	22.57	22.07	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#49	22.55	22.05	23.00	PASS
Band48	10MHz	QPSK	56690	50RB#0	21.58	21.08	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#0	22.04	21.54	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#24	22.07	21.57	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#49	22.07	21.57	23.00	PASS
Band48	10MHz	16QAM	55290	50RB#0	21.09	20.59	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#0	21.9	21.4	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#24	21.89	21.39	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#49	21.87	21.37	23.00	PASS
Band48	10MHz	16QAM	55990	50RB#0	20.93	20.43	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#0	21.6	21.1	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#24	21.63	21.13	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#49	21.6	21.1	23.00	PASS
Band48	10MHz	16QAM	56690	50RB#0	20.63	20.13	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#0	20.66	20.16	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#24	20.73	20.23	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#49	20.73	20.23	23.00	PASS
Band48	10MHz	64QAM	55290	50RB#0	20.16	19.66	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#0	20.57	20.07	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#24	20.55	20.05	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#49	20.54	20.04	23.00	PASS
Band48	10MHz	64QAM	55990	50RB#0	19.99	19.49	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#0	20.27	19.77	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#24	20.31	19.81	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#49	20.26	19.76	23.00	PASS
Band48	10MHz	64QAM	56690	50RB#0	19.67	19.17	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#0	17.88	17.38	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#24	17.9	17.4	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#49	17.91	17.41	23.00	PASS
Band48	10MHz	256QAM	55290	50RB#0	18.16	17.66	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#0	17.76	17.26	23.00	PASS



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Band48	10MHz	256QAM	55990	1RB#24	17.74	17.24	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#49	17.73	17.23	23.00	PASS
Band48	10MHz	256QAM	55990	50RB#0	17.99	17.49	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#0	17.46	16.96	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#24	17.47	16.97	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#49	17.42	16.92	23.00	PASS
Band48	10MHz	256QAM	56690	50RB#0	17.68	17.18	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#0	22.94	22.44	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#38	22.99	22.49	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#74	23.01	22.51	23.00	PASS
Band48	15MHz	QPSK	55315	75RB#0	22.03	21.53	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#0	22.59	22.09	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#38	22.83	22.33	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#74	22.82	22.32	23.00	PASS
Band48	15MHz	QPSK	55990	75RB#0	21.87	21.37	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#0	23.06	22.56	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#38	22.55	22.05	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#74	22.54	22.04	23.00	PASS
Band48	15MHz	QPSK	56665	75RB#0	21.59	21.09	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#0	22.01	21.51	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#38	22.06	21.56	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#74	22.08	21.58	23.00	PASS
Band48	15MHz	16QAM	55315	75RB#0	21.02	20.52	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#0	21.89	21.39	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#38	21.89	21.39	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#74	21.89	21.39	23.00	PASS
Band48	15MHz	16QAM	55990	75RB#0	20.86	20.36	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#0	21.58	21.08	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#38	21.66	21.16	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#74	21.63	21.13	23.00	PASS
Band48	15MHz	16QAM	56665	75RB#0	20.57	20.07	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#0	20.66	20.16	23.00	PASS



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Band48	15MHz	64QAM	55315	1RB#38	20.71	20.21	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#74	20.73	20.23	23.00	PASS
Band48	15MHz	64QAM	55315	75RB#0	20.07	19.57	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#0	20.53	20.03	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#38	20.55	20.05	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#74	20.54	20.04	23.00	PASS
Band48	15MHz	64QAM	55990	75RB#0	19.89	19.39	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#0	20.23	19.73	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#38	20.28	19.78	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#74	20.27	19.77	23.00	PASS
Band48	15MHz	64QAM	56665	75RB#0	19.63	19.13	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#0	17.86	17.36	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#38	17.93	17.43	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#74	17.93	17.43	23.00	PASS
Band48	15MHz	256QAM	55315	75RB#0	18.06	17.56	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#0	17.74	17.24	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#38	17.76	17.26	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#74	17.74	17.24	23.00	PASS
Band48	15MHz	256QAM	55990	75RB#0	17.9	17.4	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#0	17.4	16.9	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#38	17.48	16.98	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#74	17.47	16.97	23.00	PASS
Band48	15MHz	256QAM	56665	75RB#0	17.61	17.11	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#0	22.94	22.44	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#49	22.99	22.49	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#99	23.01	22.51	23.00	PASS
Band48	20MHz	QPSK	55340	100RB#0	22.07	21.57	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#0	22.68	22.18	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#49	22.83	22.33	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#99	22.84	22.34	23.00	PASS
Band48	20MHz	QPSK	55990	100RB#0	21.88	21.38	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#0	22.78	22.28	23.00	PASS



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Band48	20MHz	QPSK	56640	1RB#49	22.57	22.07	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#99	22.58	22.08	23.00	PASS
Band48	20MHz	QPSK	56640	100RB#0	21.64	21.14	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#0	22.01	21.51	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#49	22.08	21.58	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#99	22.08	21.58	23.00	PASS
Band48	20MHz	16QAM	55340	100RB#0	21.11	20.61	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#0	21.91	21.41	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#49	21.92	21.42	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#99	21.91	21.41	23.00	PASS
Band48	20MHz	16QAM	55990	100RB#0	20.91	20.41	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#0	21.54	21.04	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#49	21.62	21.12	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#99	21.61	21.11	23.00	PASS
Band48	20MHz	16QAM	56640	100RB#0	20.65	20.15	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#0	20.69	20.19	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#49	20.72	20.22	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#99	20.71	20.21	23.00	PASS
Band48	20MHz	64QAM	55340	100RB#0	20.13	19.63	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#0	20.55	20.05	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#49	20.56	20.06	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#99	20.56	20.06	23.00	PASS
Band48	20MHz	64QAM	55990	100RB#0	19.9	19.4	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#0	20.23	19.73	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#49	20.28	19.78	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#99	20.29	19.79	23.00	PASS
Band48	20MHz	64QAM	56640	100RB#0	19.64	19.14	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#0	17.86	17.36	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#49	17.93	17.43	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#99	17.94	17.44	23.00	PASS
Band48	20MHz	256QAM	55340	100RB#0	18.11	17.61	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#0	17.77	17.27	23.00	PASS



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Report No.: SEWM2308000313RG01

Rev.: 01

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Band48	20MHz	256QAM	55990	1RB#49	17.74	17.24	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#99	17.75	17.25	23.00	PASS
Band48	20MHz	256QAM	55990	100RB#0	17.92	17.42	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#0	17.42	16.92	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#49	17.47	16.97	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#99	17.48	16.98	23.00	PASS
Band48	20MHz	256QAM	56640	100RB#0	17.65	17.15	23.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band48	20MHz	QPSK	55340	100RB#0	7.72	13	PASS
Band48	20MHz	QPSK	55990	100RB#0	7.82	13	PASS
Band48	20MHz	QPSK	56640	100RB#0	7.74	13	PASS
Band48	20MHz	16QAM	55340	100RB#0	8.22	13	PASS
Band48	20MHz	16QAM	55990	100RB#0	8.36	13	PASS
Band48	20MHz	16QAM	56640	100RB#0	8.24	13	PASS
Band48	20MHz	64QAM	55340	100RB#0	8.42	13	PASS
Band48	20MHz	64QAM	55990	100RB#0	8.48	13	PASS
Band48	20MHz	64QAM	56640	100RB#0	8.56	13	PASS
Band48	20MHz	256QAM	55340	100RB#0	8.68	13	PASS
Band48	20MHz	256QAM	55990	100RB#0	8.60	13	PASS
Band48	20MHz	256QAM	56640	100RB#0	8.66	13	PASS



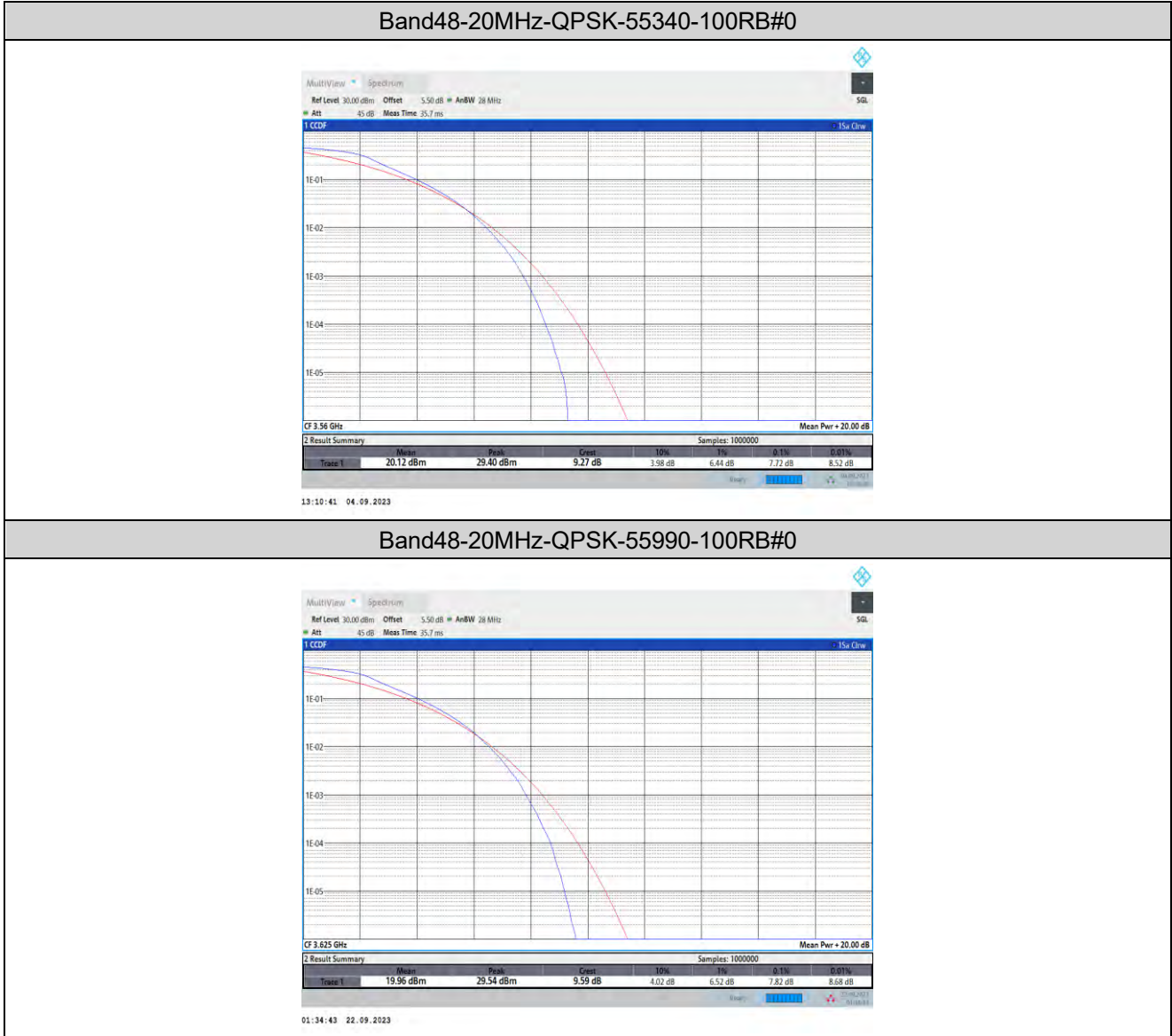
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Test Graphs



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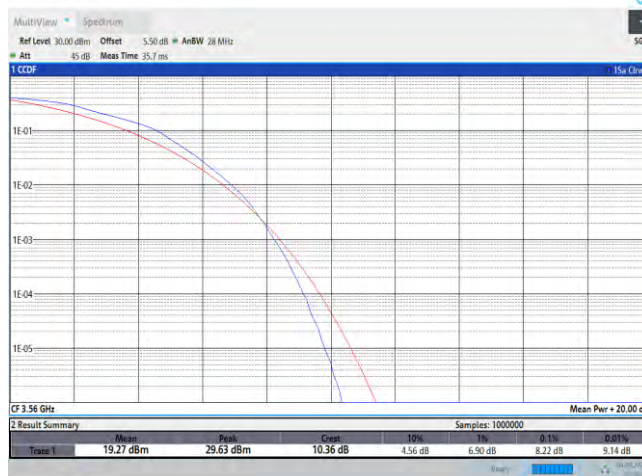
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Band48-20MHz-QPSK-56640-100RB#0



01:35:00 22.09.2023

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



13:10:57 04.09.2023



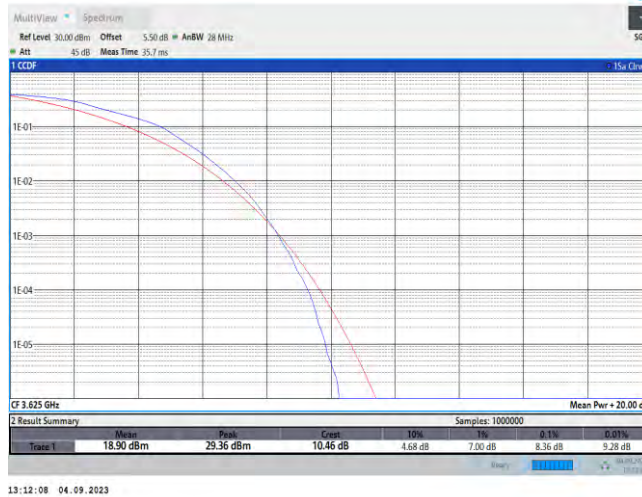
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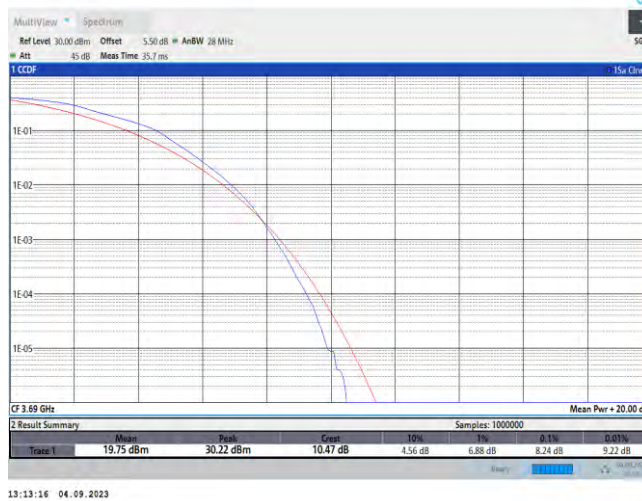
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Band48-20MHz-16QAM-55990-100RB#0



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

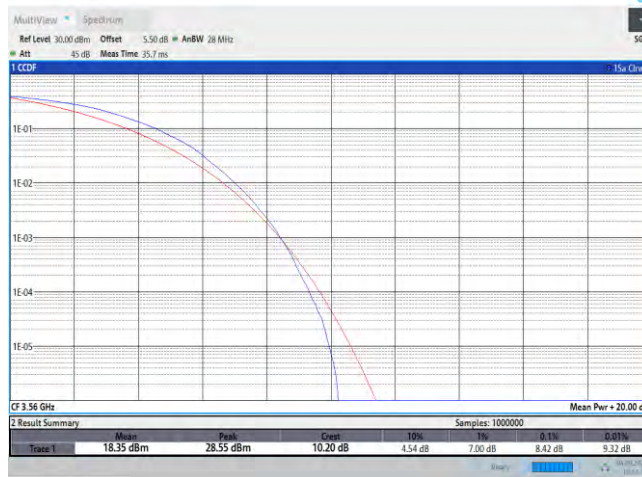


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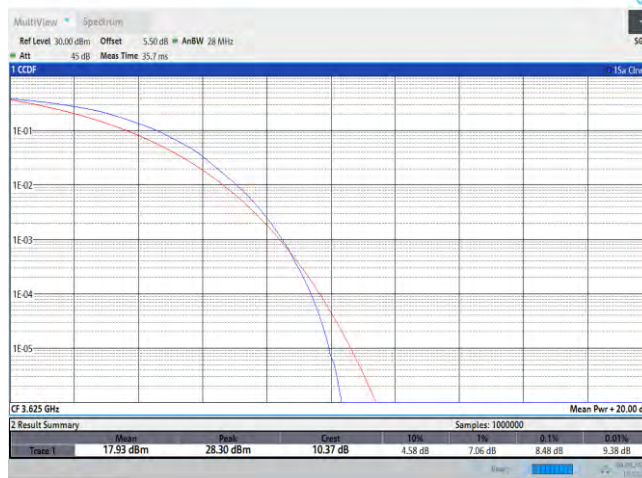


Band48-20MHz-64QAM-55340-100RB#0



13:11:14 04.09.2023

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



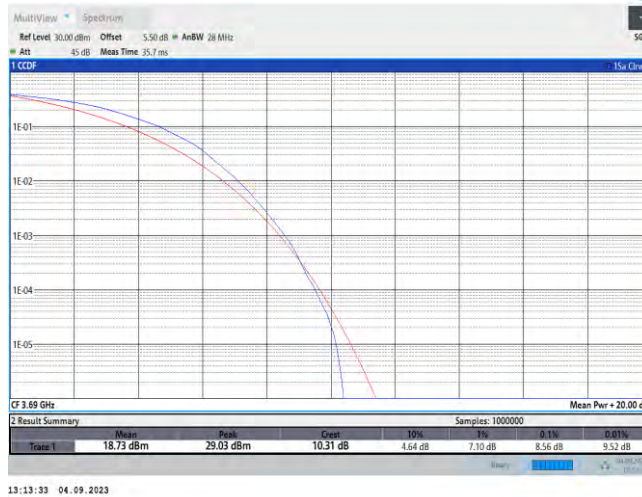
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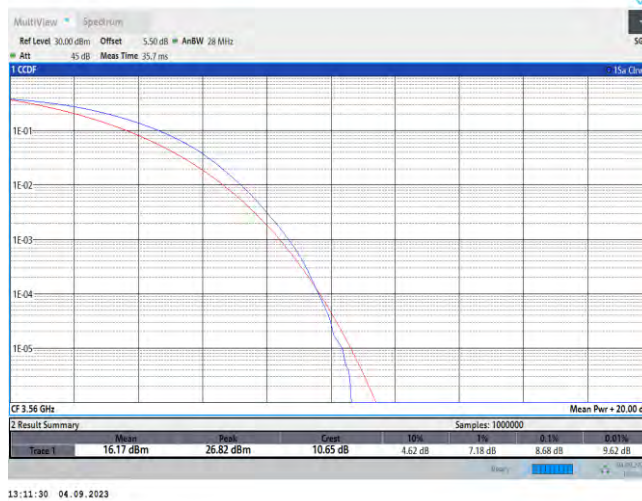
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Band48-20MHz-64QAM-56640-100RB#0



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

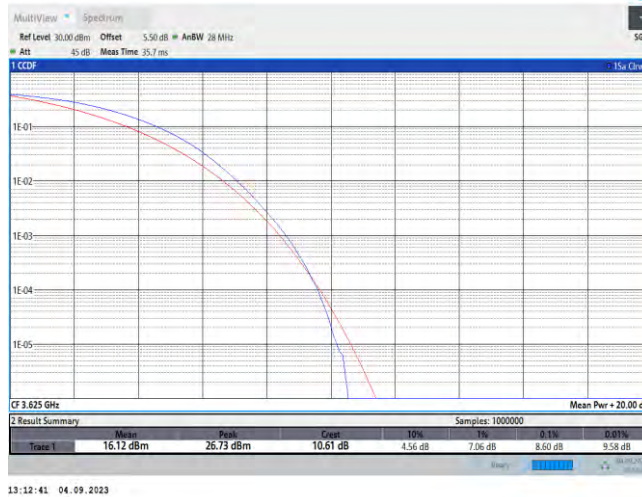


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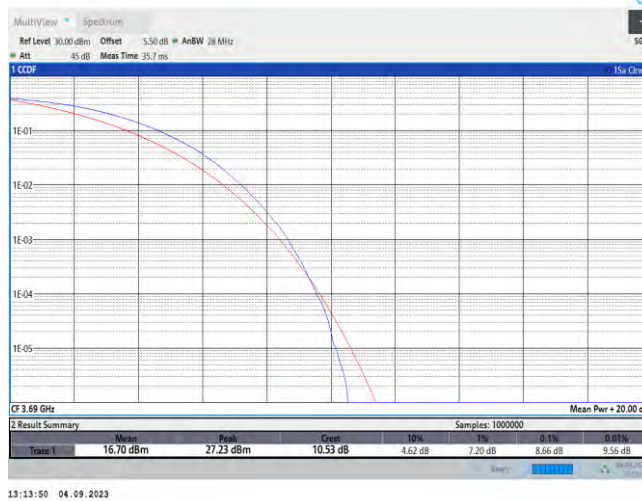
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Band48-20MHz-256QAM-55990-100RB#0



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



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## 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	4.481	5.23	PASS
Band48	5MHz	16QAM	55990	25RB#0	4.496	5.22	PASS
Band48	5MHz	64QAM	55990	25RB#0	4.504	5.08	PASS
Band48	5MHz	256QAM	55990	25RB#0	4.491	5.30	PASS
Band48	10MHz	QPSK	55990	50RB#0	8.972	9.83	PASS
Band48	10MHz	16QAM	55990	50RB#0	8.974	9.87	PASS
Band48	10MHz	64QAM	55990	50RB#0	8.999	10.43	PASS
Band48	10MHz	256QAM	55990	50RB#0	8.973	9.90	PASS
Band48	15MHz	QPSK	55990	75RB#0	13.47	16.20	PASS
Band48	15MHz	16QAM	55990	75RB#0	13.471	14.85	PASS
Band48	15MHz	64QAM	55990	75RB#0	13.462	14.75	PASS
Band48	15MHz	256QAM	55990	75RB#0	13.478	14.85	PASS
Band48	20MHz	QPSK	55990	100RB#0	18.046	21.07	PASS
Band48	20MHz	16QAM	55990	100RB#0	18.009	19.80	PASS
Band48	20MHz	64QAM	55990	100RB#0	17.973	20.53	PASS
Band48	20MHz	256QAM	55990	100RB#0	18.001	19.87	PASS



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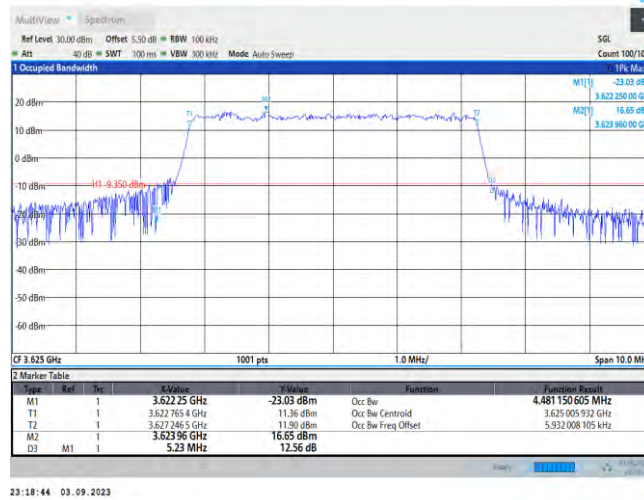
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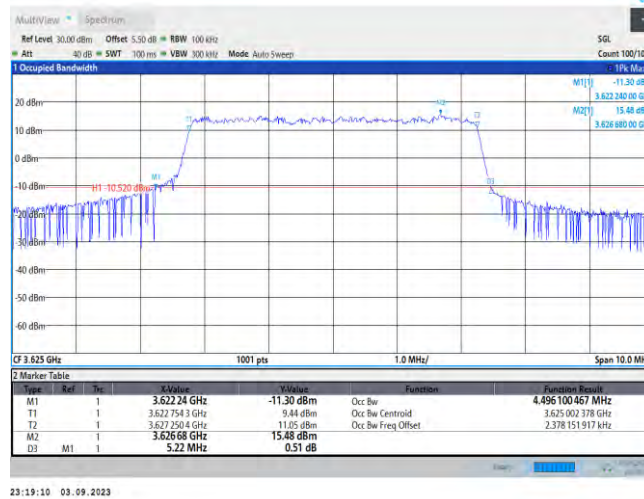


Test Graphs

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



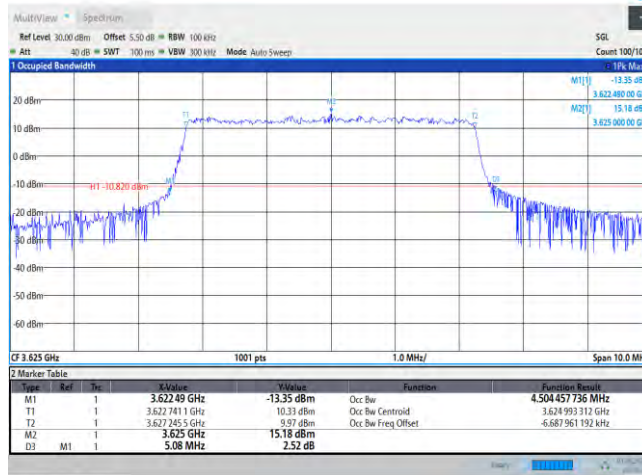
Band48-5MHz-16QAM-55990-25RB#0



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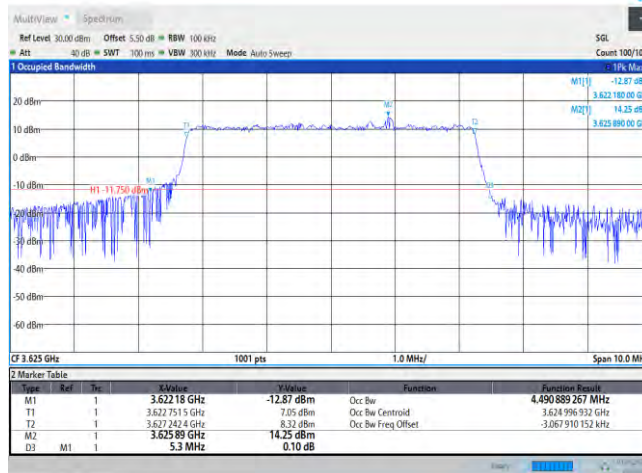
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Band48-5MHz-64QAM-55990-25RB#0



23:19:36 03.09.2023

Band48-5MHz-256QAM-55990-25RB#0



23:20:02 03.09.2023



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



00:34:02 04.09.2023

Band48-10MHz-16QAM-55990-50RB#0



00:34:21 04.09.2023



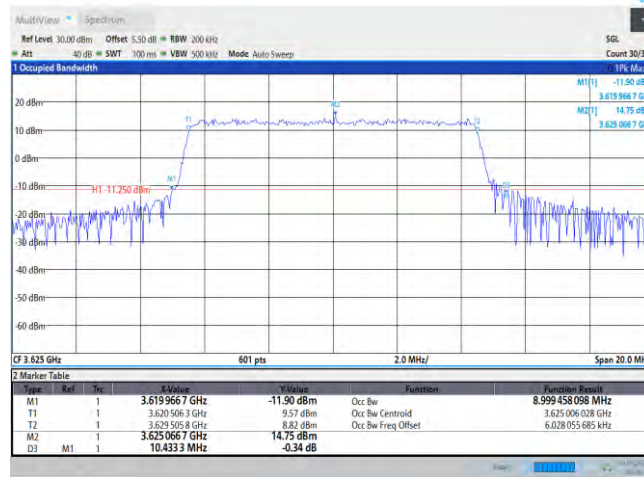
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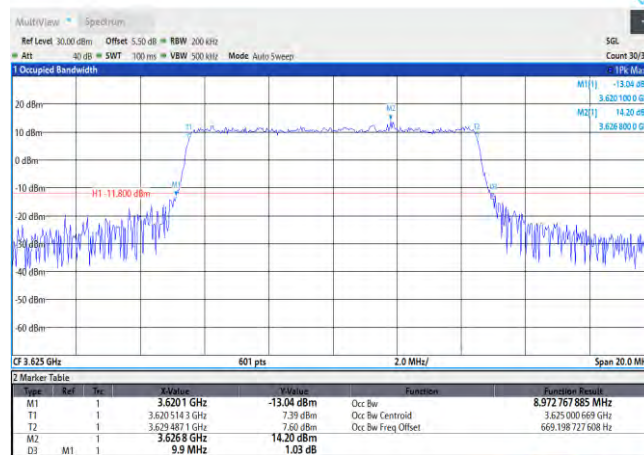


Band48-10MHz-64QAM-55990-50RB#0



00:34:40 04.09.2023

Band48-10MHz-256QAM-55990-50RB#0



00:34:59 04.09.2023



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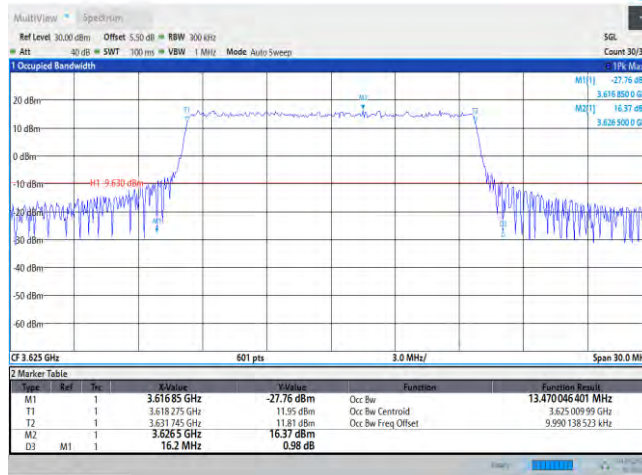
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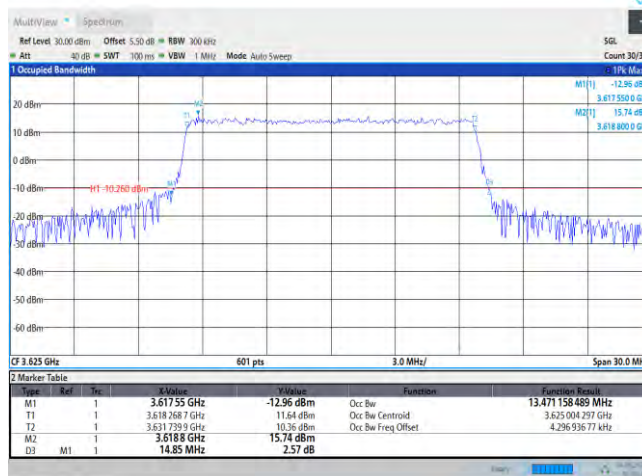


Band48-15MHz-QPSK-55990-75RB#0



01:49:04 04.09.2023

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



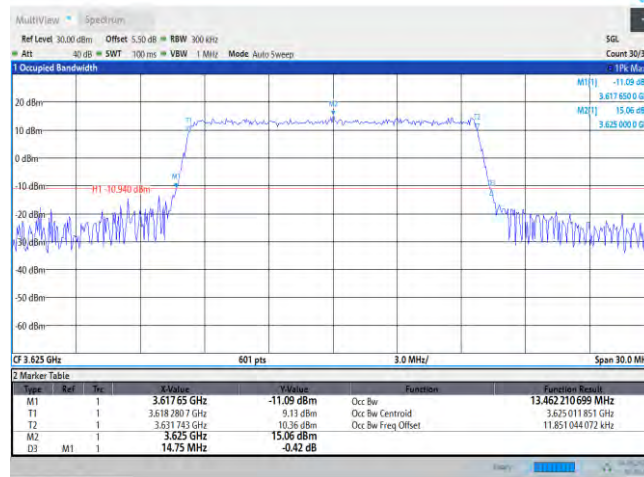
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Band48-15MHz-64QAM-55990-75RB#0



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Band48-15MHz-256QAM-55990-75RB#0



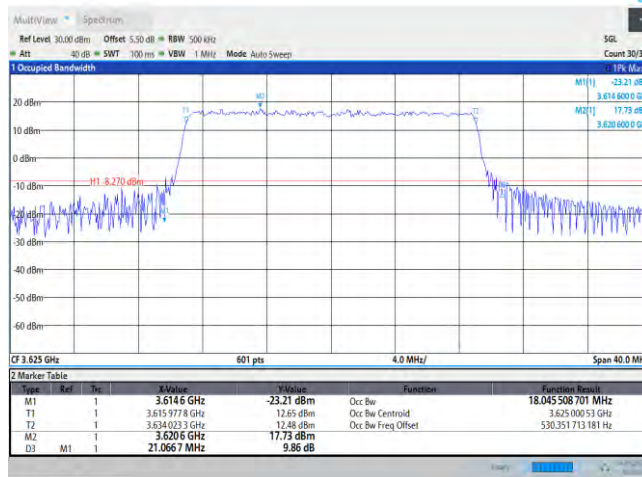
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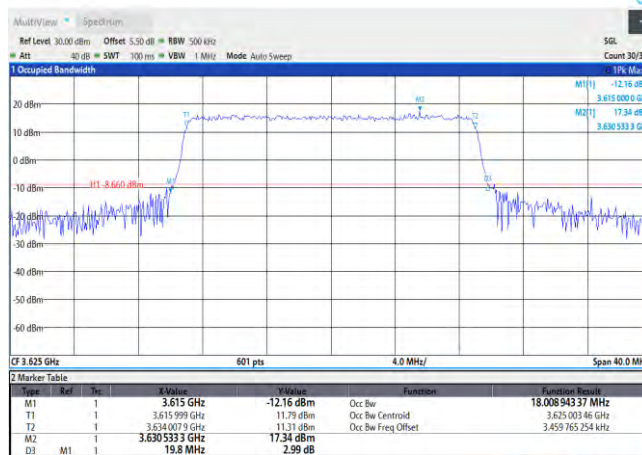
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Band48-20MHz-QPSK-55990-100RB#0



03:04:03 04.09.2023

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



03:04:22 04.09.2023

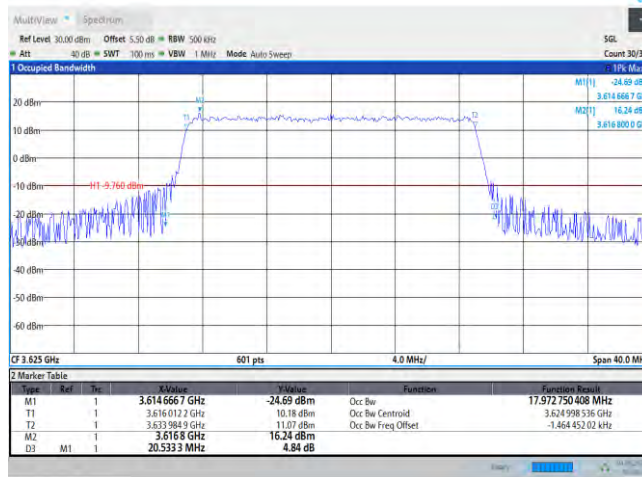


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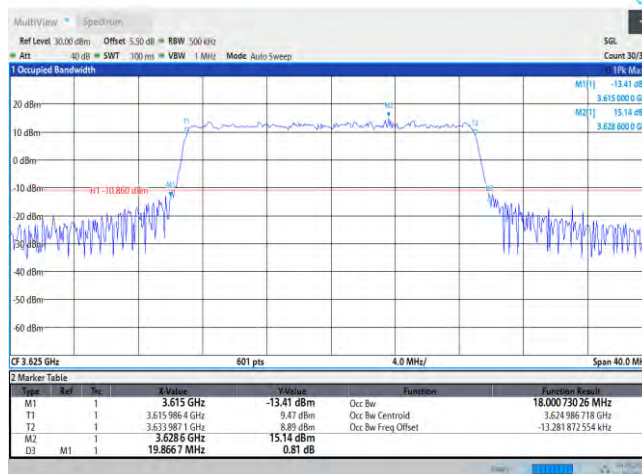


Band48-20MHz-64QAM-55990-100RB#0



03:04:40 04.09.2023

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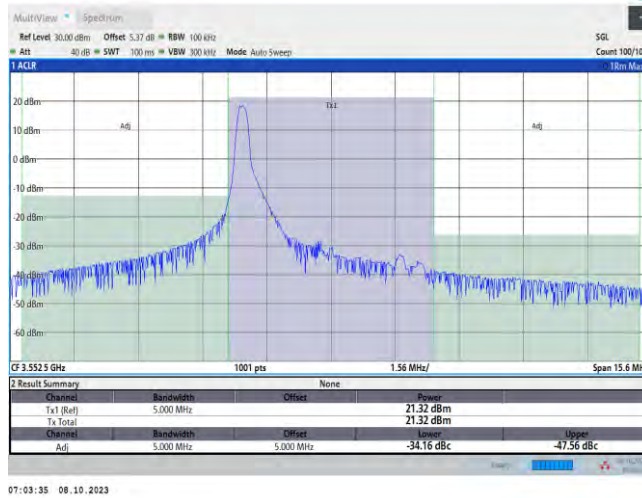
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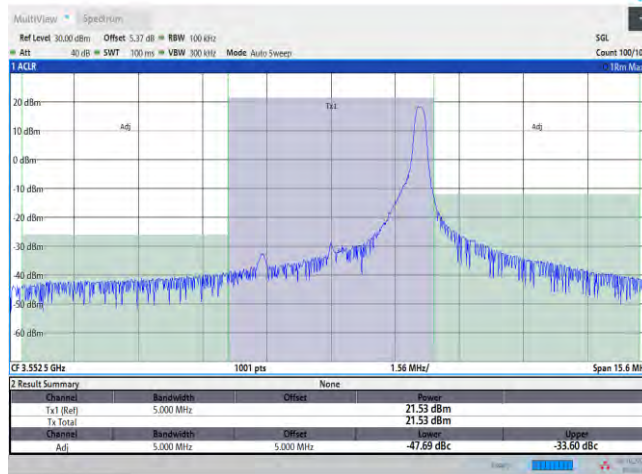
Test Graphs

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



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



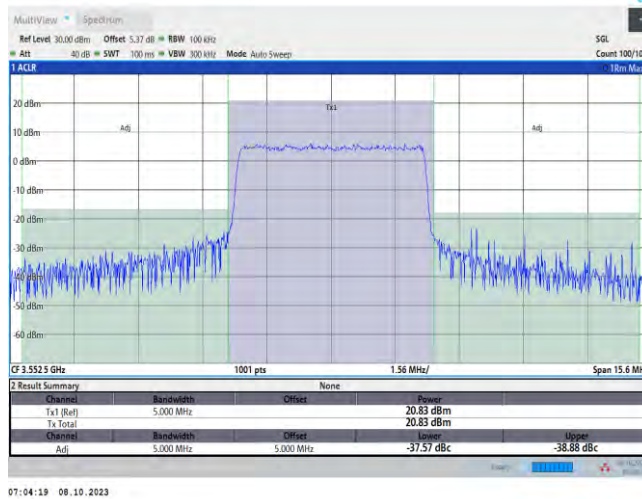
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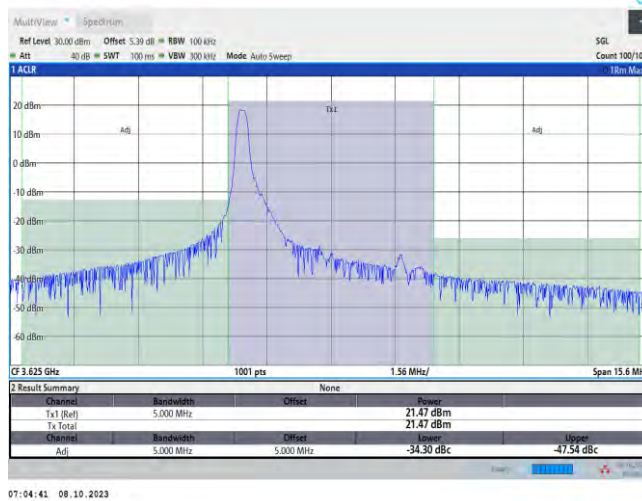
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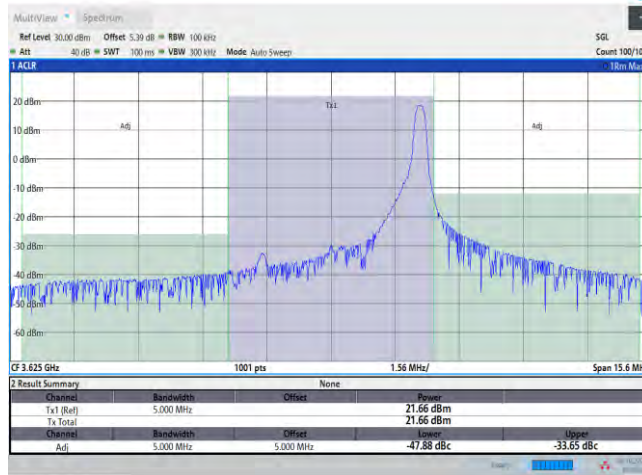
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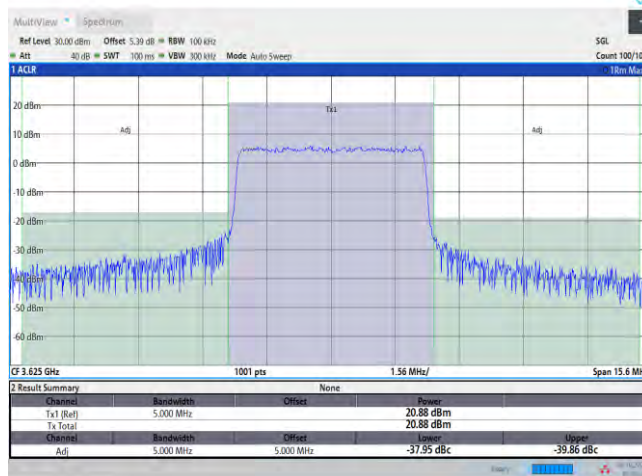
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Band48-5MHz-QPSK-55990-25RB#0



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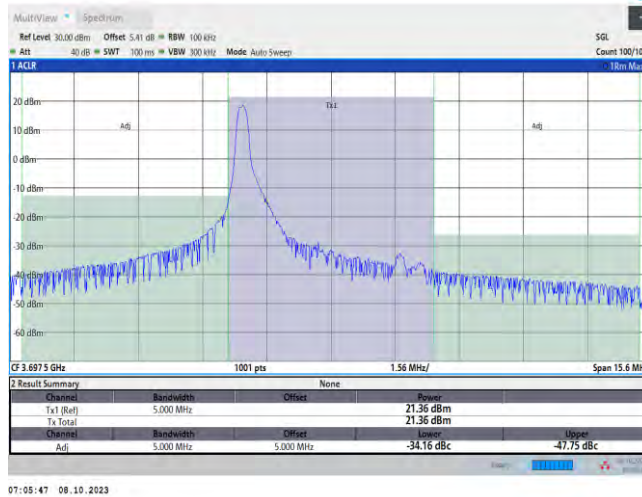


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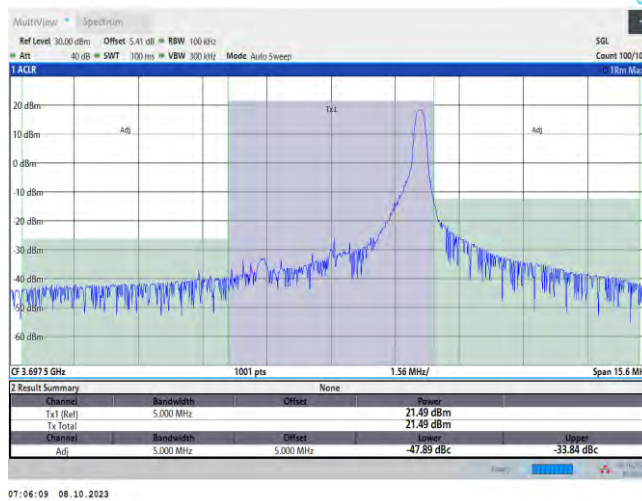
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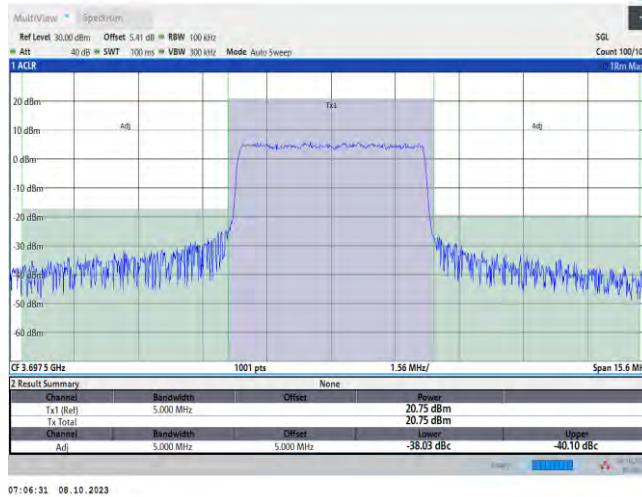
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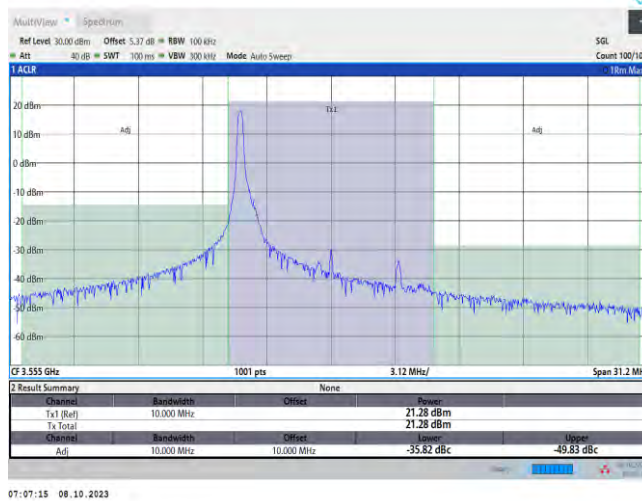
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Band48-5MHz-QPSK-56715-25RB#0



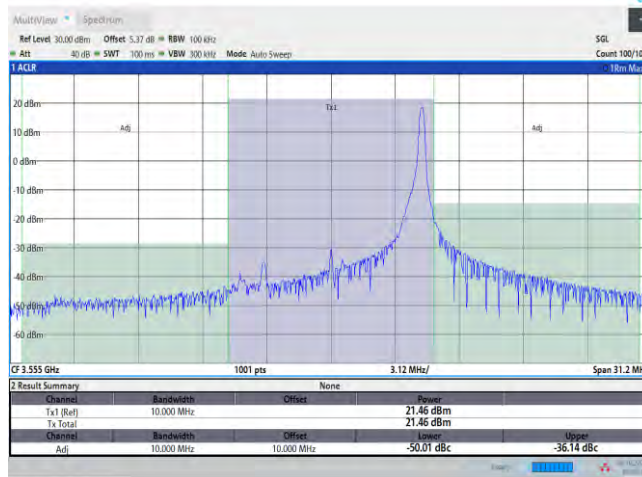
Band48-10MHz-QPSK-55290-1RB#0



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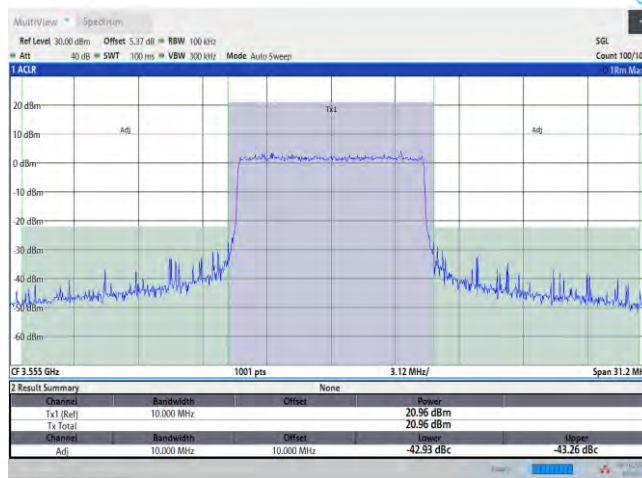
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Band48-10MHz-QPSK-55290-1RB#49



07:07:37 08.10.2023

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



07:07:59 08.10.2023



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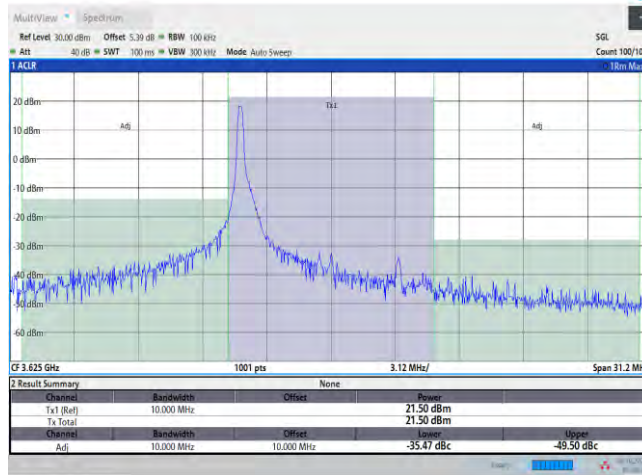
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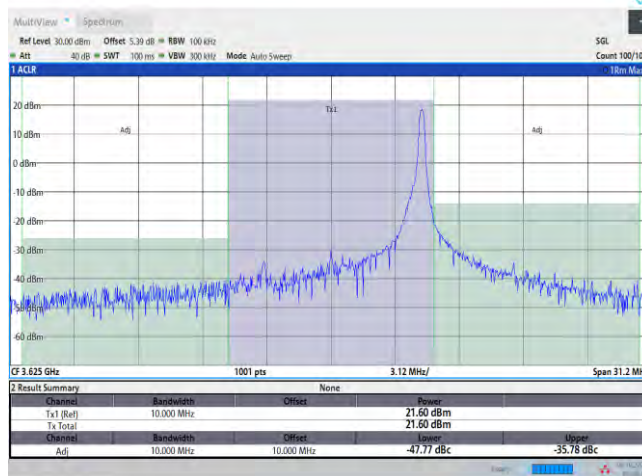


Band48-10MHz-QPSK-55990-1RB#0



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



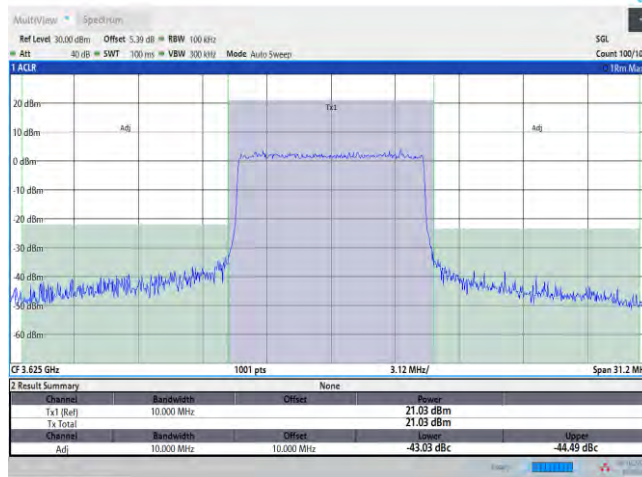
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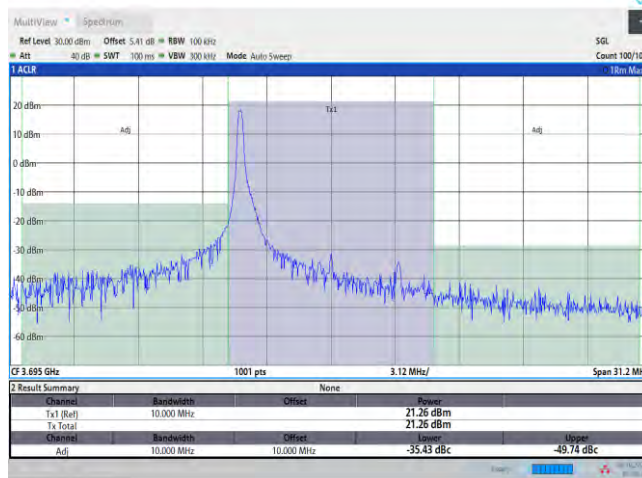
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Band48-10MHz-QPSK-55990-50RB#0



07:09:05 08.10.2023

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



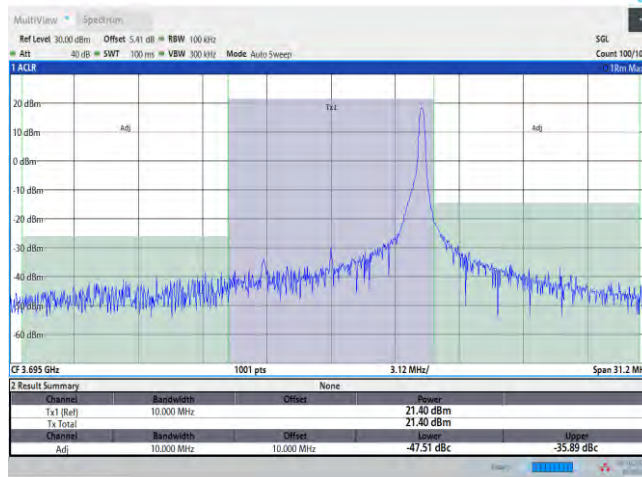
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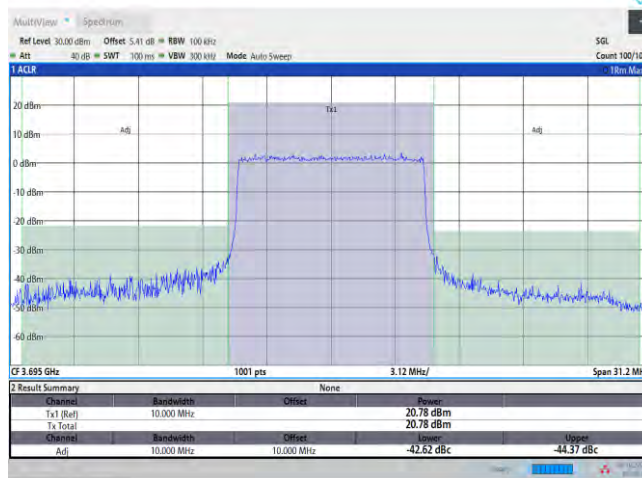
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Band48-10MHz-QPSK-56690-1RB#49



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



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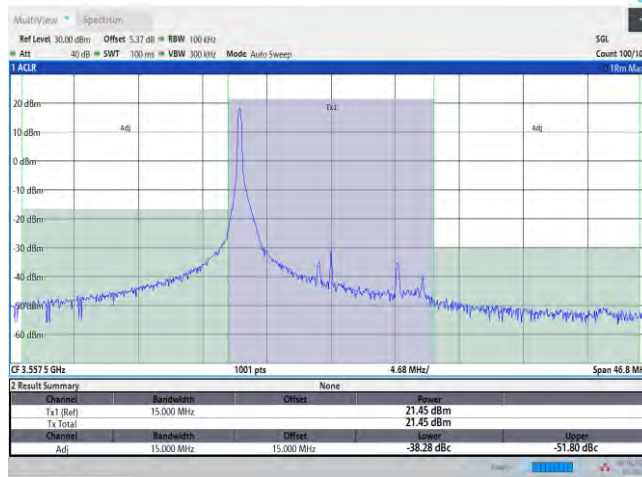


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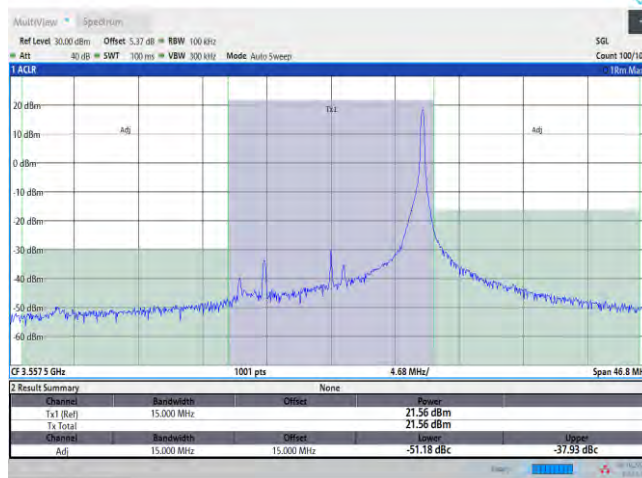


Band48-15MHz-QPSK-55315-1RB#0



07:10:55 08.10.2023

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



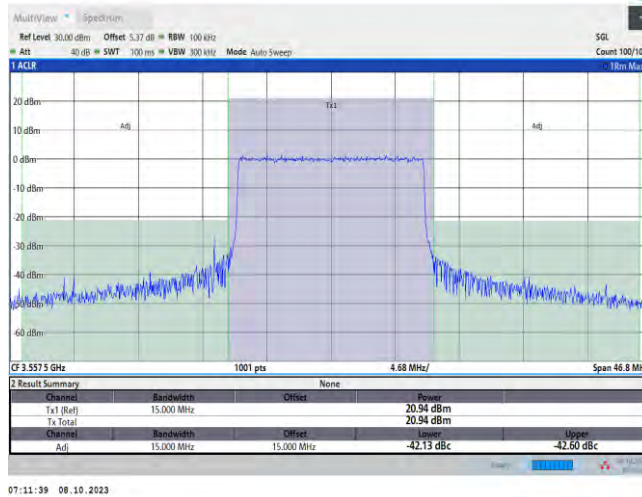
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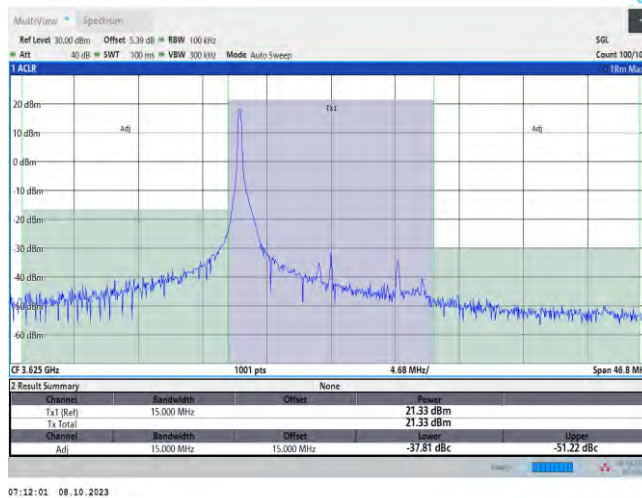
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Band48-15MHz-QPSK-55315-75RB#0



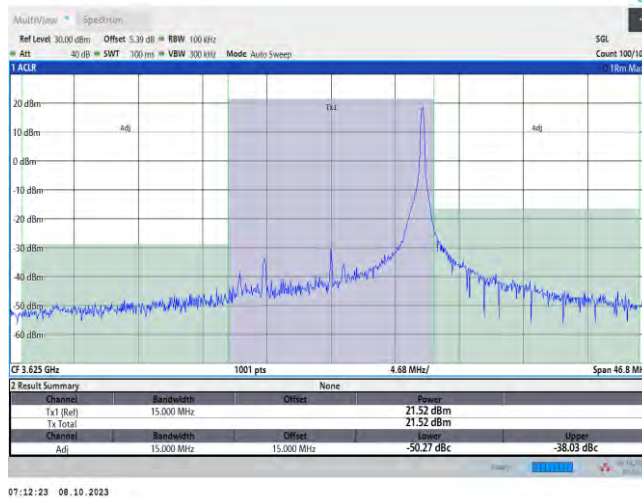
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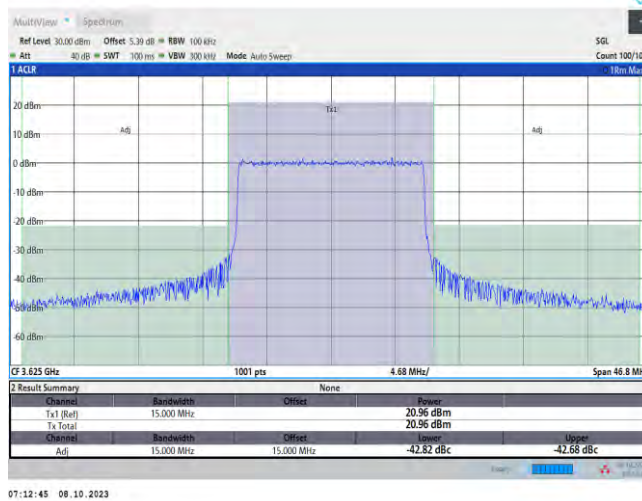
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Band48-15MHz-QPSK-55990-1RB#74



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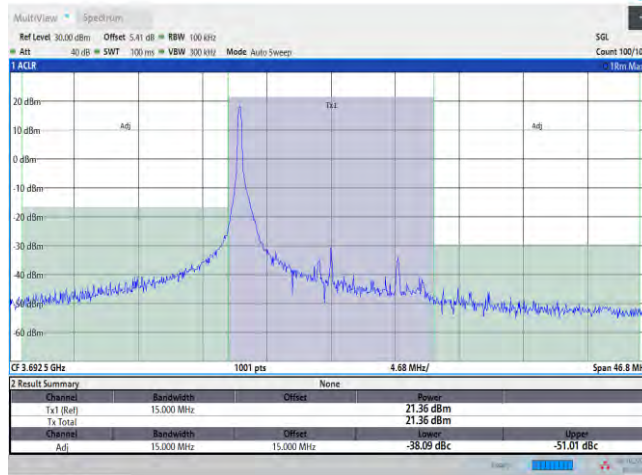
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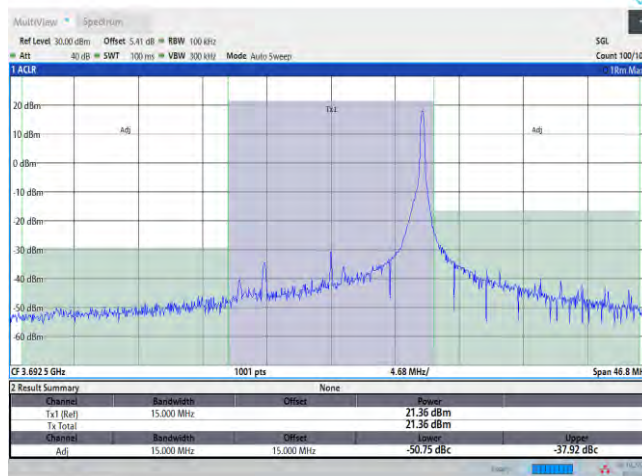


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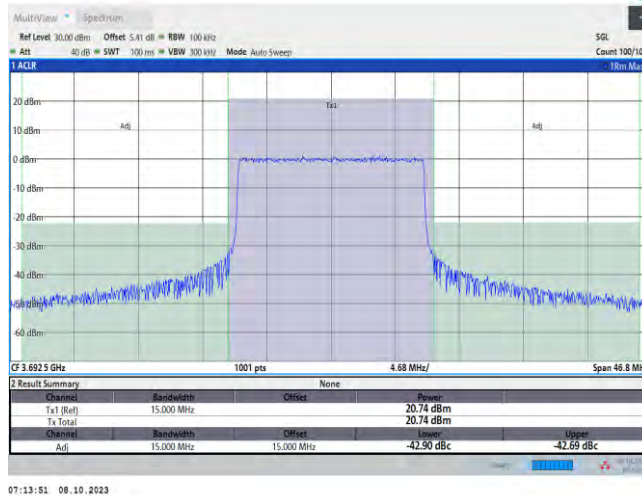
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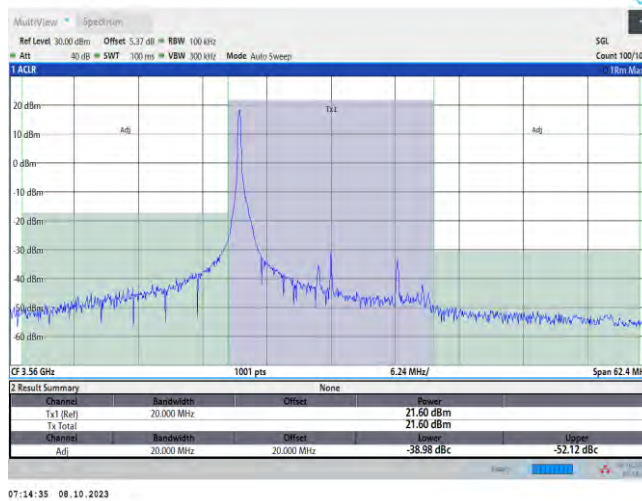
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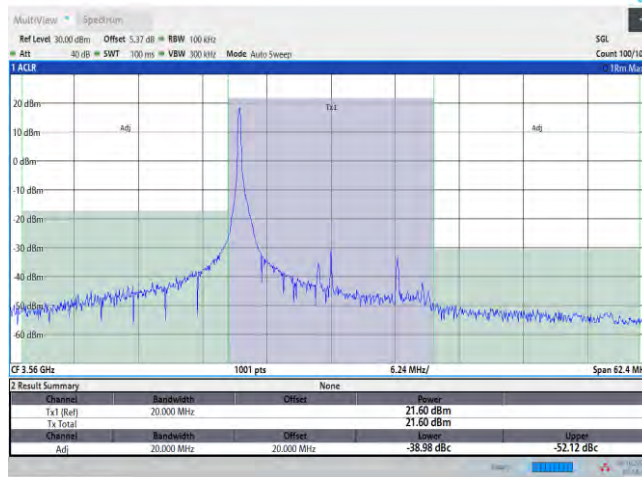
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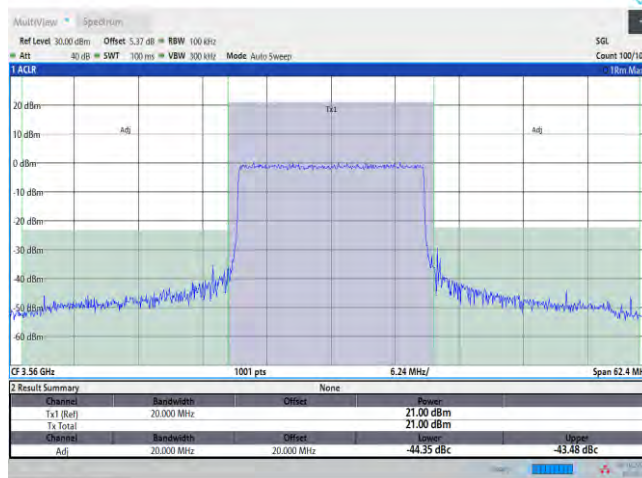
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Band48-20MHz-QPSK-55340-1RB#99



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



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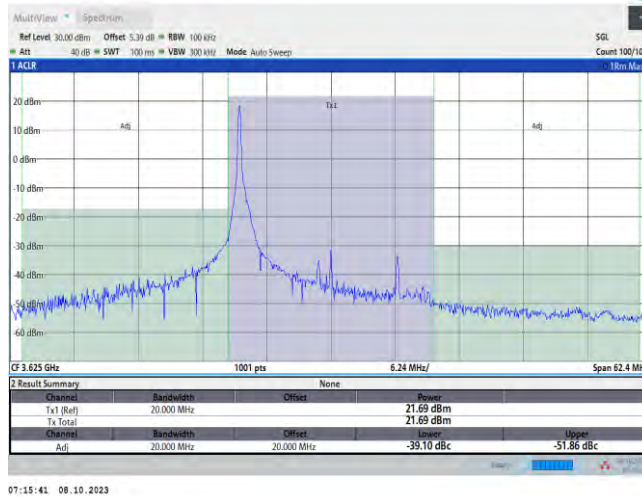
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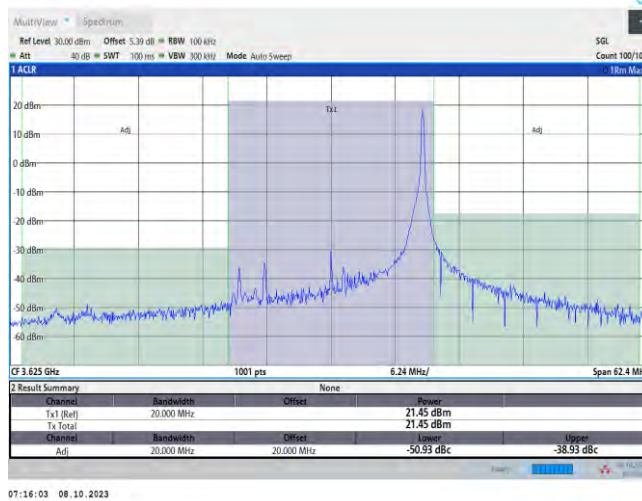
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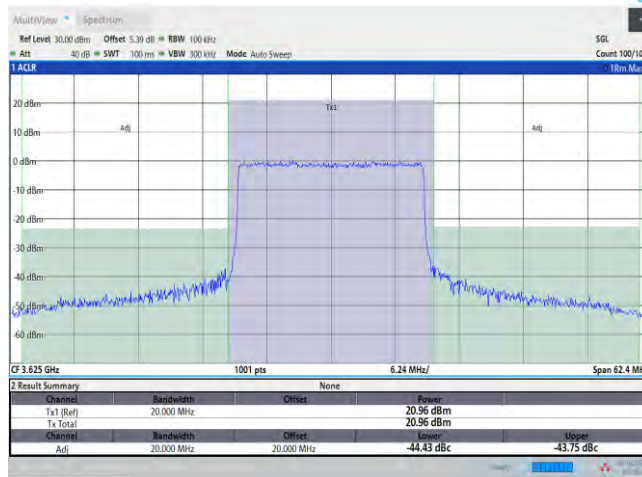
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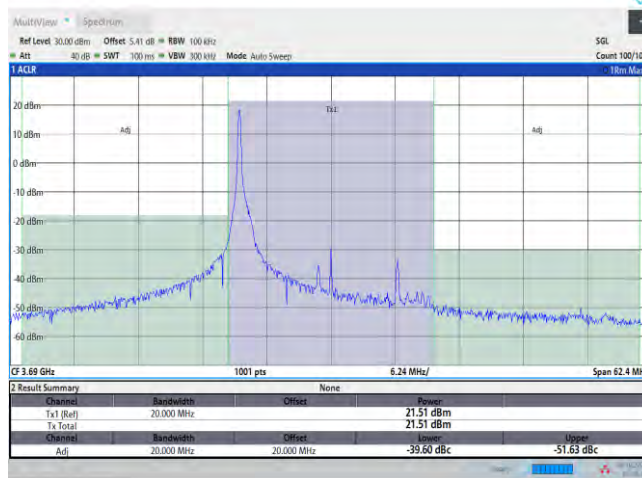
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Band48-20MHz-QPSK-55990-100RB#0



07:16:25 08.10.2023

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



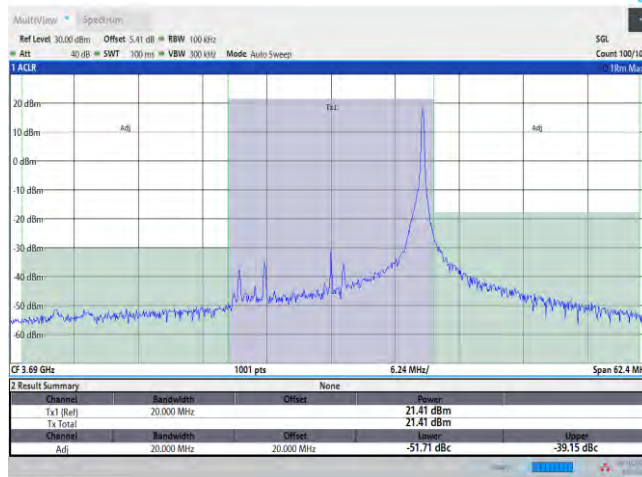
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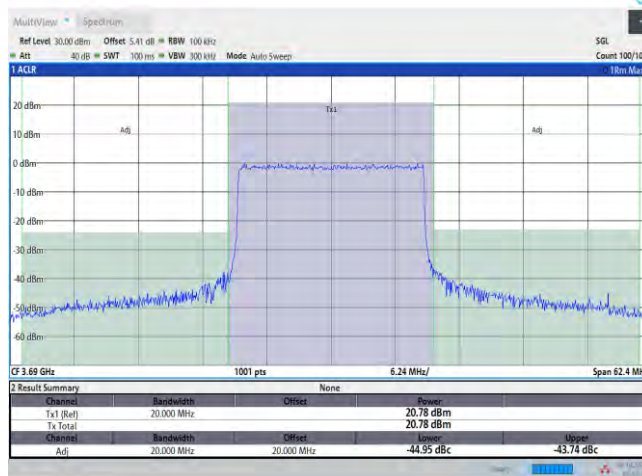
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Band48-20MHz-QPSK-56640-1RB#99



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



07:17:31 08.10.2023



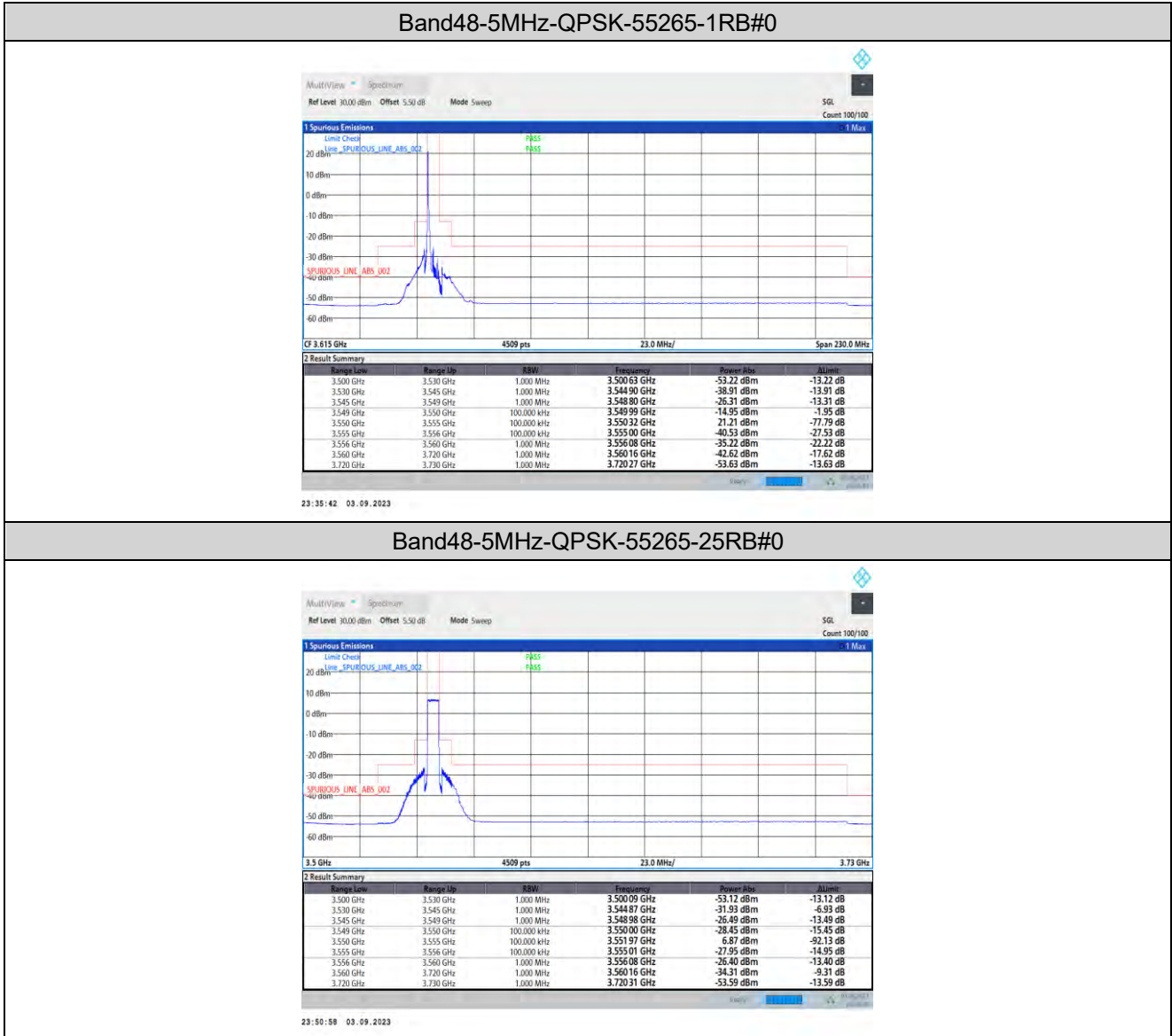
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## Band Edge

## Test Graphs

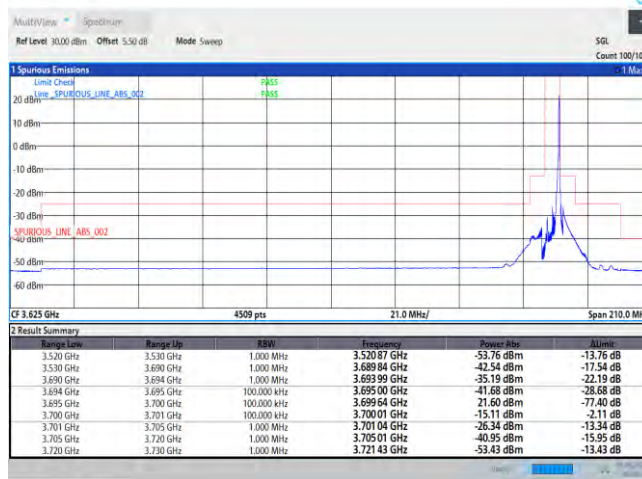


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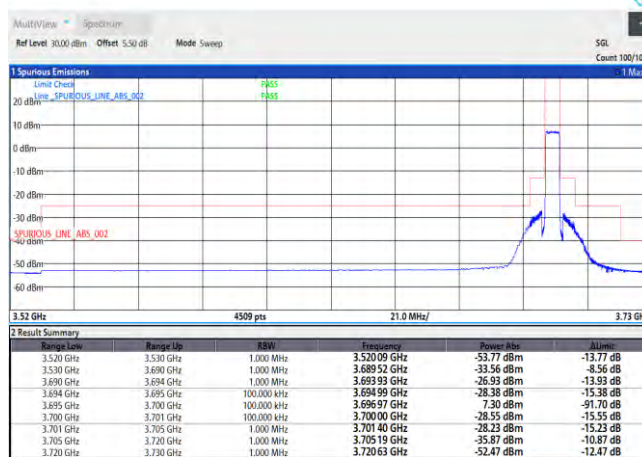
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Band48-5MHz-QPSK-56715-1RB#24



00:06:39 04.09.2023

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



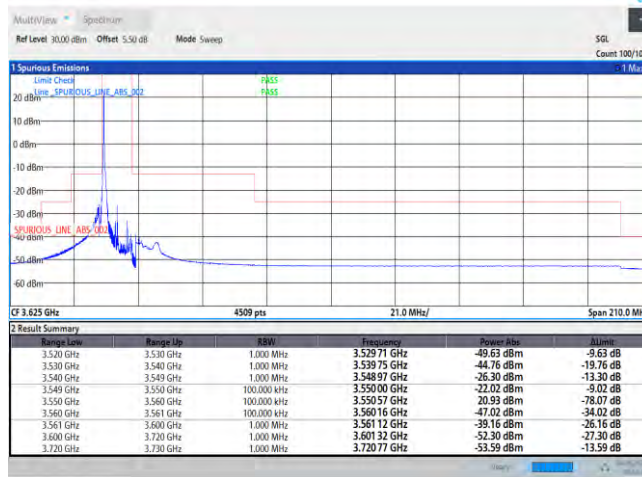
00:21:59 04.09.2023



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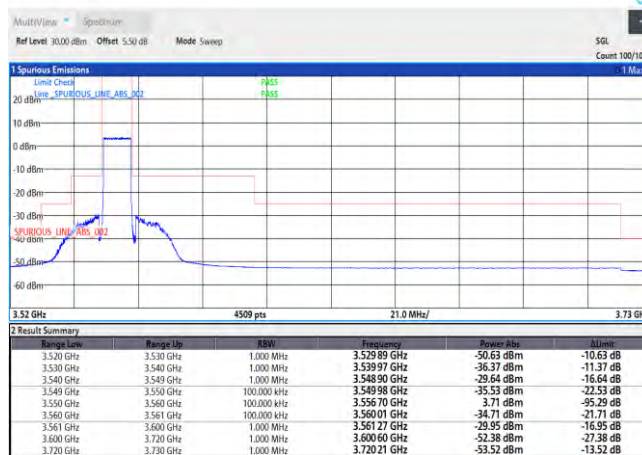
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Band48-10MHz-QPSK-55290-1RB#0



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



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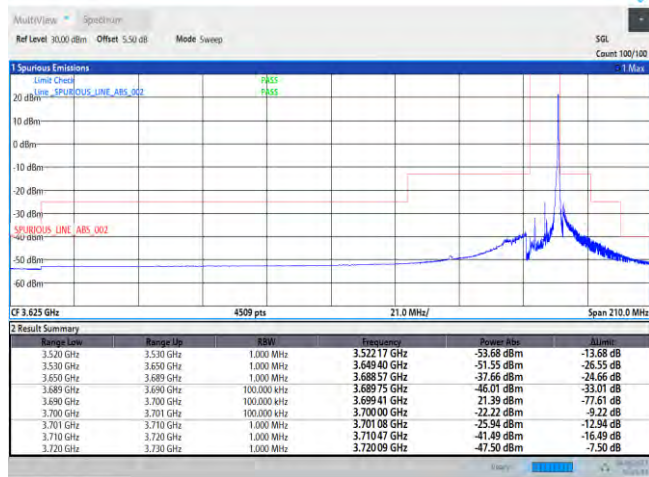


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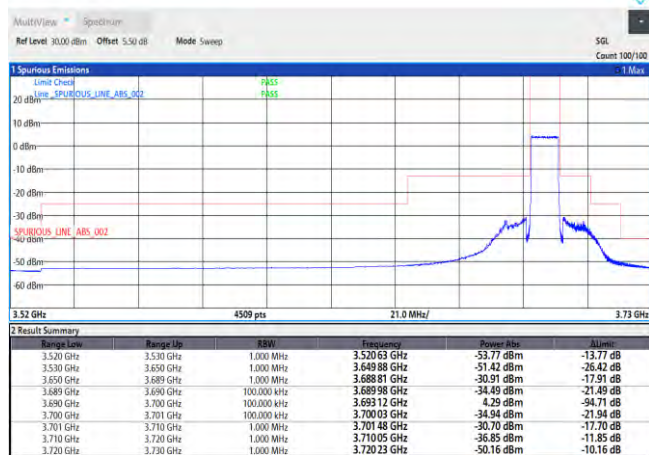


Band48-10MHz-QPSK-56690-1RB#49



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



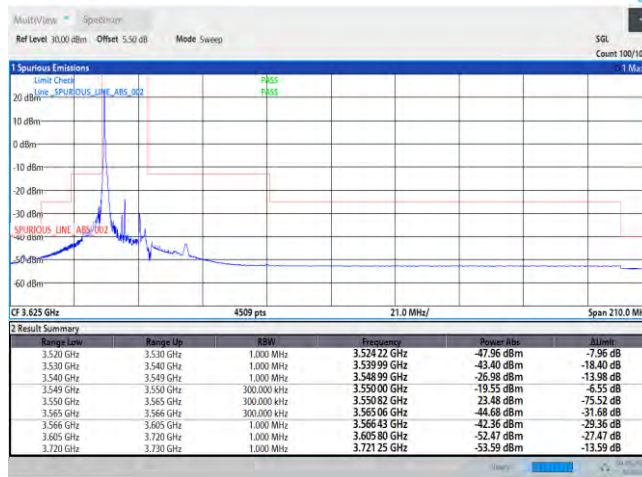
01:37:00 04.09.2023



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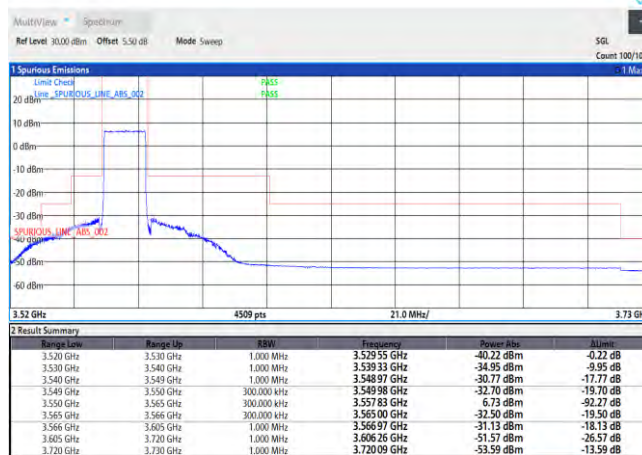
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Band48-15MHz-QPSK-55315-1RB#0



02:05:40 04.09.2023

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



02:20:56 04.09.2023



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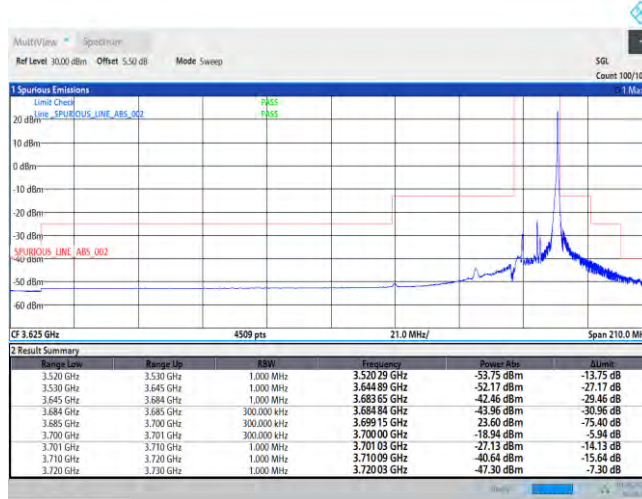
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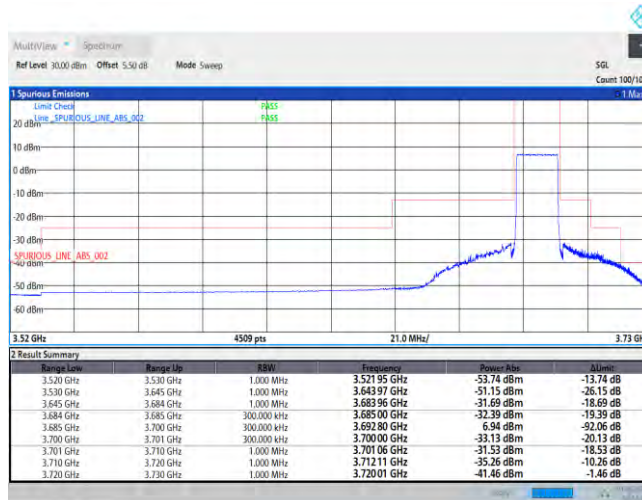
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Band48-15MHz-QPSK-56665-1RB#74



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



02:51:58 04.09.2023

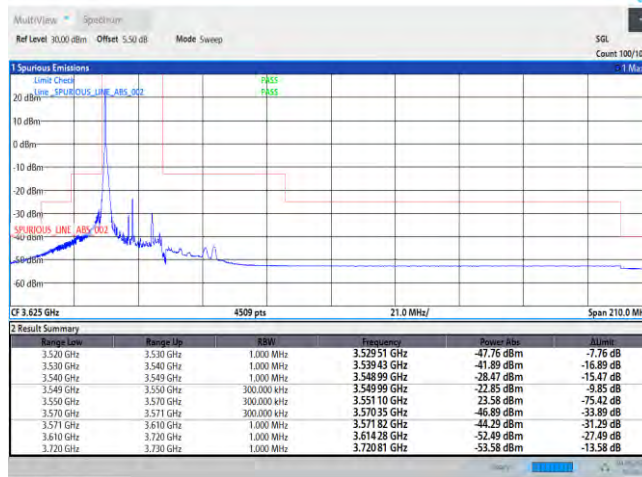


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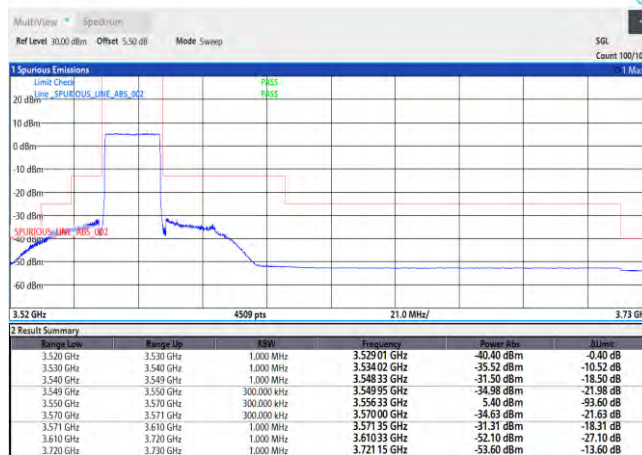


Band48-20MHz-QPSK-55340-1RB#0



03:20:37 04.09.2023

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



03:35:53 04.09.2023



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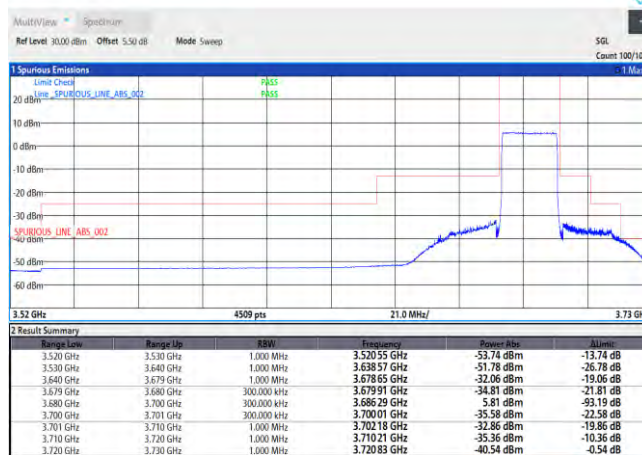
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Band48-20MHz-QPSK-56640-1RB#99



03:51:34 04.09.2023

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



04:06:50 04.09.2023



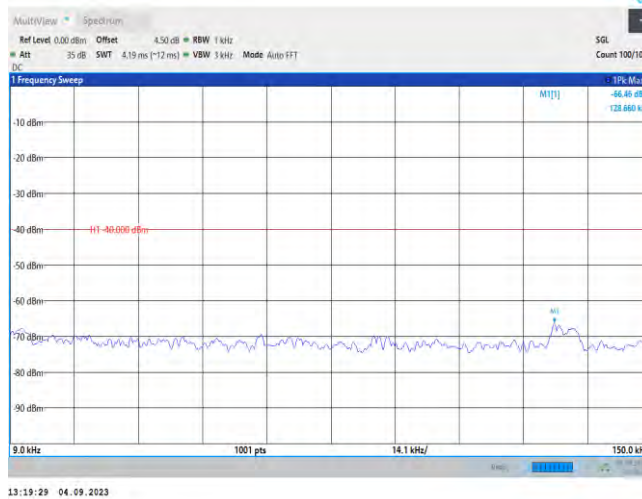
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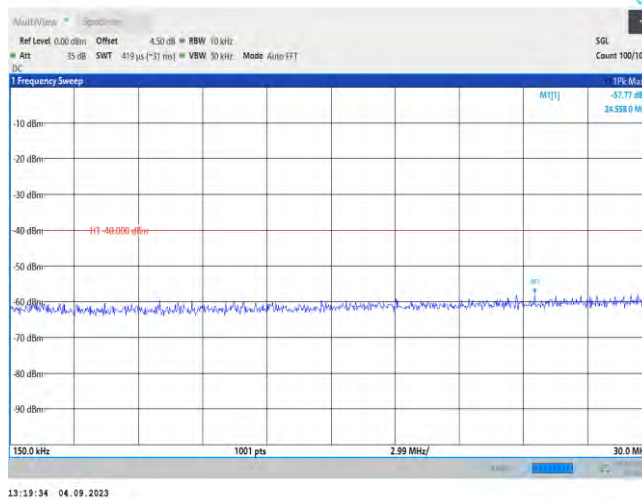
## Conducted Spurious Emission

### Test Graphs

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



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

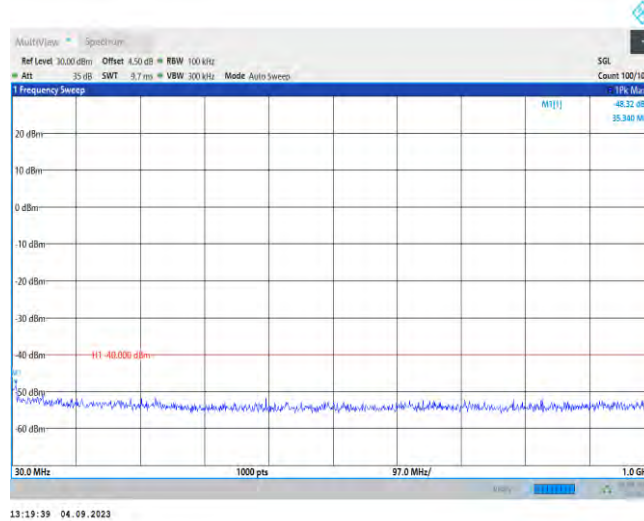


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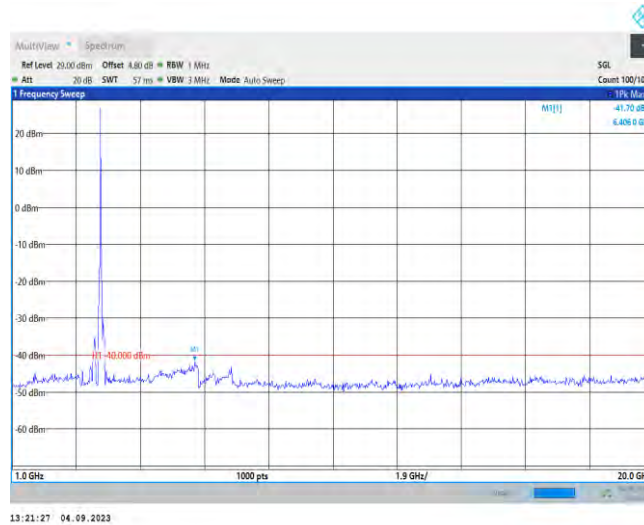
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Band48-20MHz-QPSK-55340-1RB#0-Range3:30~1000MHz



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

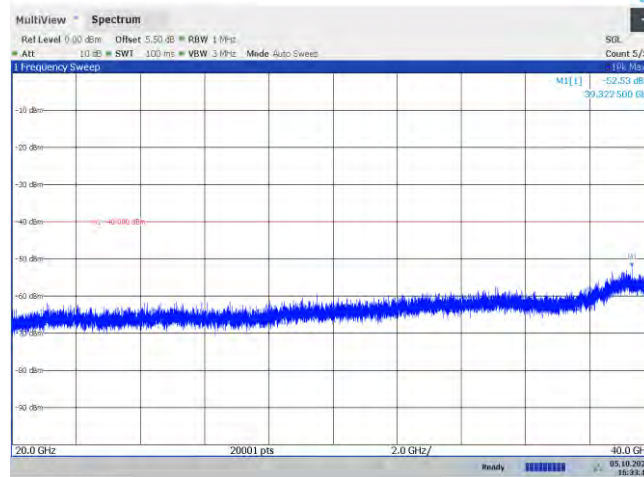


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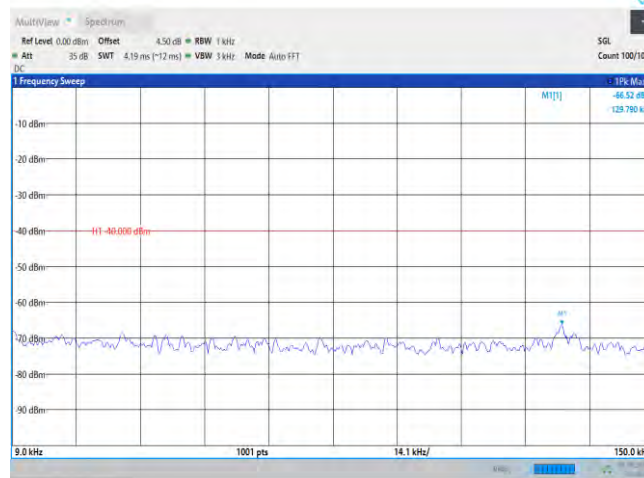
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Band48-20MHz-QPSK-55340-1RB#0-Range5:20000~38000MHz



16:33:44 05.10.2023

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



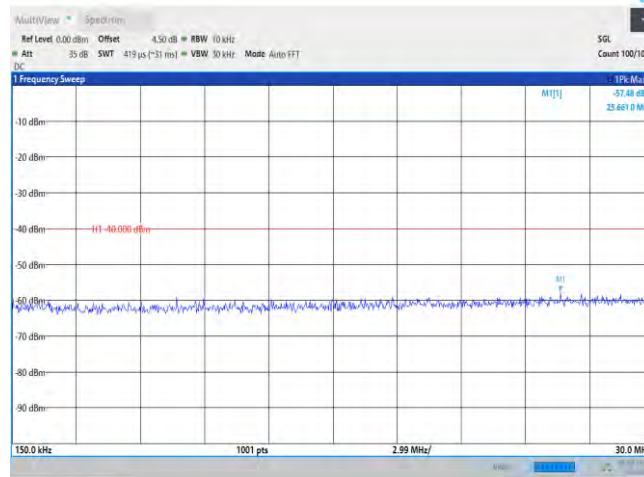
13:20:51 04.09.2023



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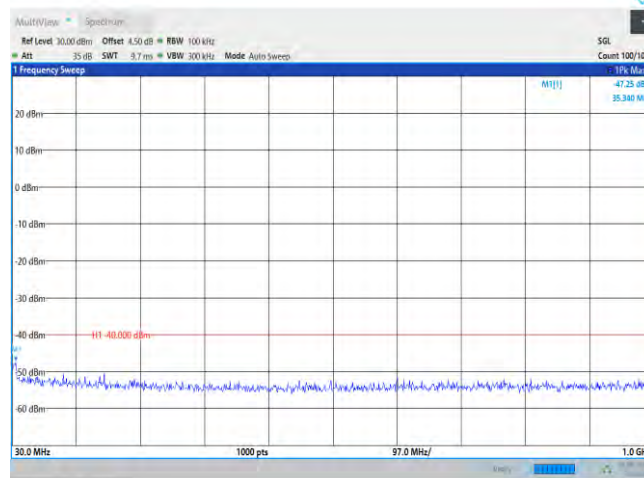
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Band48-20MHz-QPSK-55990-1RB#0-Range2:0.15~30MHz



13:20:56 04.09.2023

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



13:21:01 04.09.2023

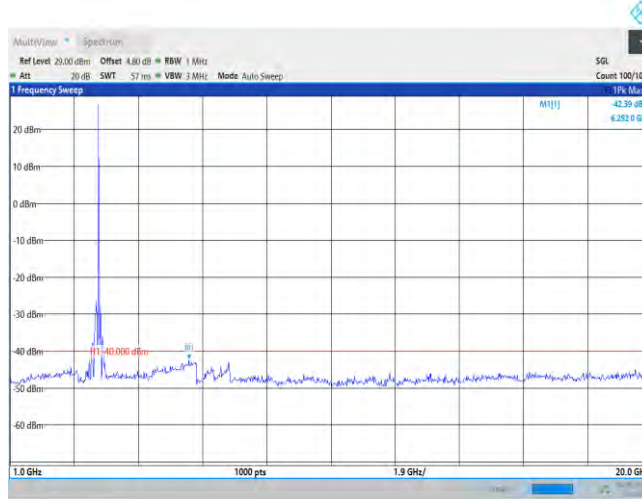


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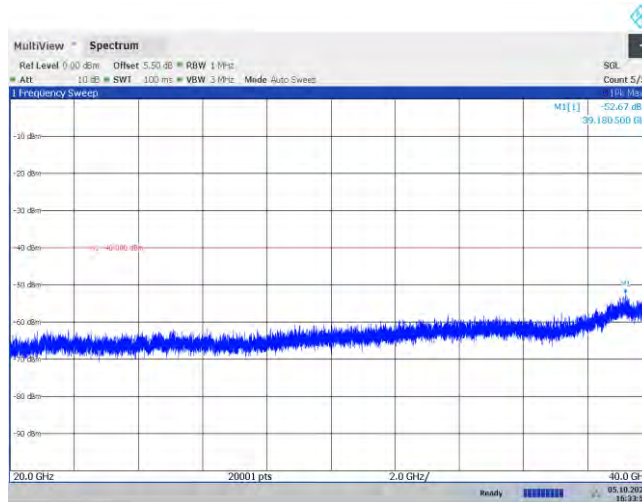


Band48-20MHz-QPSK-55990-1RB#0-Range4:1000~20000MHz



13:23:04 04.09.2023

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



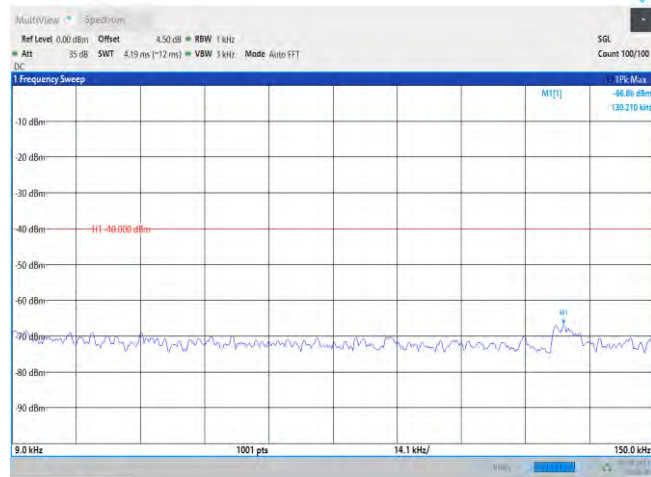
14:33:58 05.10.2023



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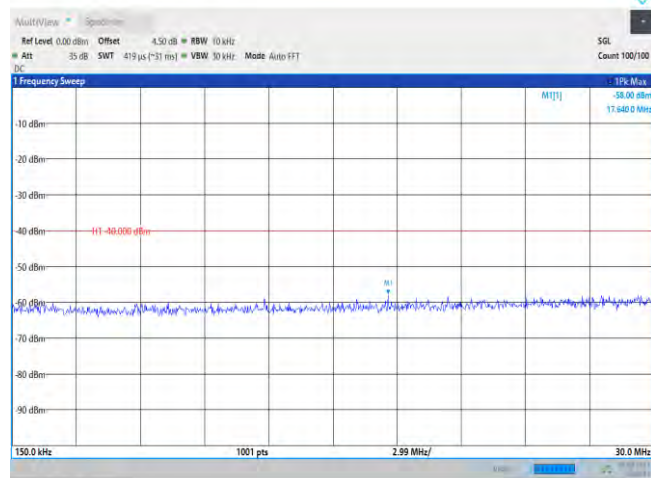
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Band48-20MHz-QPSK-56640-1RB#0-Range1:0.009~0.15MHz



13:09:36 04.09.2023

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



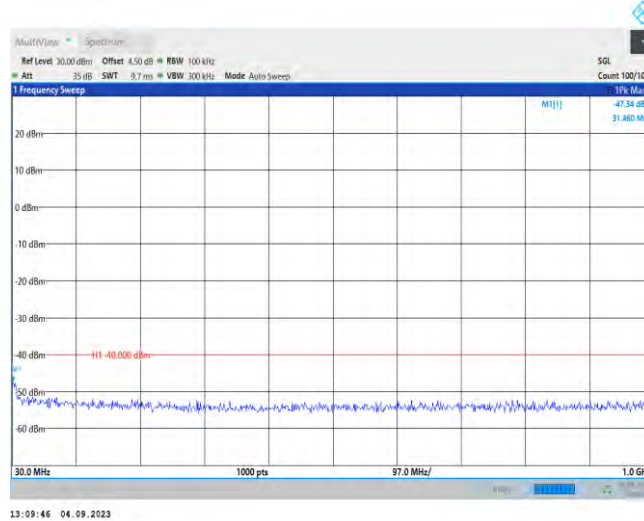
13:09:41 04.09.2023



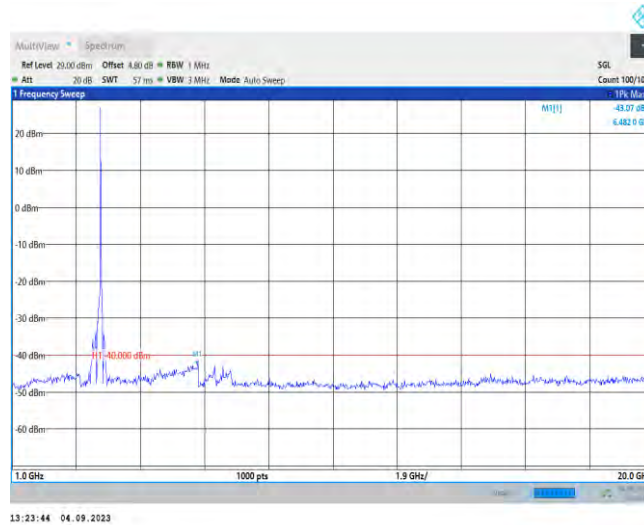
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Band48-20MHz-QPSK-56640-1RB#0-Range3:30~1000MHz



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



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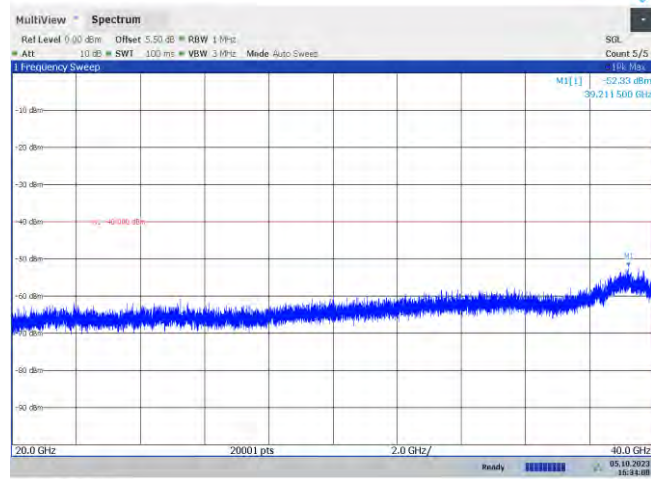
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Band48-20MHz-QPSK-56640-1RB#0-Range5:20000~38000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band48\_20MHz\_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	7735.675	40.34	-42.82	36.69	-61.04	-40.00	21.04	Horizontal
2	8639.575	38.38	-41.07	36.48	-61.47	-40.00	21.47	Horizontal
3	9261.725	37.29	-40.02	36.80	-61.20	-40.00	21.20	Horizontal
4	10355.375	35.08	-38.83	38.38	-60.63	-40.00	20.63	Horizontal
5	11537	32.01	-36.68	38.75	-61.18	-40.00	21.18	Horizontal
6	13923.25	31.36	-35.39	40.76	-58.52	-40.00	18.52	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8030.65	39.65	-41.89	36.78	-60.71	-40.00	20.71	Vertical
2	9612.475	36.02	-39.23	37.46	-61.01	-40.00	21.01	Vertical
3	11230.525	33.39	-36.79	38.72	-59.94	-40.00	19.94	Vertical
4	12701.95	31.66	-36.83	39.01	-61.42	-40.00	21.42	Vertical
5	13977.3	30.44	-34.96	40.86	-58.92	-40.00	18.92	Vertical
6	15342.925	30.29	-33.98	40.58	-58.37	-40.00	18.37	Vertical



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Test Band = LTE Band48\_20MHz\_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	7786.85	40.06	-42.63	36.71	-61.11	-40.00	21.11	Horizontal
2	8814.375	38.34	-41.11	36.39	-61.63	-40.00	21.63	Horizontal
3	10082.825	35.01	-38.82	38.24	-60.83	-40.00	20.83	Horizontal
4	11607.15	31.52	-36.92	38.76	-61.90	-40.00	21.90	Horizontal
5	13458.075	31.00	-36.41	39.92	-60.74	-40.00	20.74	Horizontal
6	14831.175	30.73	-35.04	41.23	-58.34	-40.00	18.34	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7778.225	41.11	-42.66	36.71	-60.10	-40.00	20.10	Vertical
2	9230.1	37.59	-39.99	36.74	-60.92	-40.00	20.92	Vertical
3	10242.1	35.54	-39.15	38.32	-60.55	-40.00	20.55	Vertical
4	11457.65	32.89	-36.93	38.75	-60.56	-40.00	20.56	Vertical
5	14449.95	30.63	-34.66	41.08	-58.21	-40.00	18.21	Vertical
6	15148.575	30.75	-34.13	40.99	-57.65	-40.00	17.65	Vertical



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**Test Band = LTE Band48\_20MHz\_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	7454.5	40.94	-43.00	36.47	-60.84	-40.00	20.84	Horizontal
2	8390.025	40.15	-41.42	36.60	-59.92	-40.00	19.92	Horizontal
3	10116.175	34.87	-38.79	38.26	-60.93	-40.00	20.93	Horizontal
4	12002.175	31.31	-37.18	38.80	-62.33	-40.00	22.33	Horizontal
5	13161.375	30.79	-36.59	39.39	-61.66	-40.00	21.66	Horizontal
6	14802.425	30.72	-35.00	41.22	-58.32	-40.00	18.32	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7664.375	40.25	-42.88	36.67	-61.22	-40.00	21.22	Vertical
2	8932.25	37.76	-40.90	36.33	-62.06	-40.00	22.06	Vertical
3	10383.55	34.86	-38.76	38.39	-60.77	-40.00	20.77	Vertical
4	11698	30.64	-36.11	38.77	-61.96	-40.00	21.96	Vertical
5	13289.025	31.02	-36.97	39.62	-61.59	-40.00	21.59	Vertical
6	14627.625	30.99	-35.19	41.15	-58.31	-40.00	18.31	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band48	20MHz	QPSK	55990	100RB#0	VL	NT	9.70	0.002676	PASS
Band48	20MHz	QPSK	55990	100RB#0	VN	NT	7.20	0.001986	PASS
Band48	20MHz	QPSK	55990	100RB#0	VH	NT	11.70	0.003228	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band48	20MHz	QPSK	55990	100RB#0	NV	-30	6.10	0.001683	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-20	14.00	0.003862	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-10	1.60	0.000653	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	0	2.40	0.000662	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	10	7.60	0.002097	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	20	10.10	0.002786	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	30	6.10	0.001683	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	40	8.70	0.002400	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	50	14.20	0.003917	PASS

---End of Attachment---



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