



Appendix B.17

LTE Band 48



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	23.12	21.12	23.00	PASS
Band48	5MHz	QPSK	55265	1RB#12	23.08	21.08	23.00	PASS
Band48	5MHz	QPSK	55265	1RB#24	23.06	21.06	23.00	PASS
Band48	5MHz	QPSK	55265	25RB#0	22.14	20.14	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#0	22.89	20.89	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#12	22.88	20.88	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#24	22.91	20.91	23.00	PASS
Band48	5MHz	QPSK	55990	25RB#0	21.97	19.97	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#0	23.51	21.51	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#12	23.49	21.49	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#24	23.49	21.49	23.00	PASS
Band48	5MHz	QPSK	56715	25RB#0	22.51	20.51	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#0	22.11	20.11	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#12	22.11	20.11	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#24	22.10	20.10	23.00	PASS
Band48	5MHz	16QAM	55265	25RB#0	21.13	19.13	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#0	21.94	19.94	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#12	21.99	19.99	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#24	21.98	19.98	23.00	PASS
Band48	5MHz	16QAM	55990	25RB#0	20.97	18.97	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#0	22.54	20.54	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#12	22.55	20.55	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#24	22.56	20.56	23.00	PASS
Band48	5MHz	16QAM	56715	25RB#0	21.51	19.51	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#0	23.10	21.10	23.00	PASS



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Band48	10MHz	QPSK	55290	1RB#24	23.09	21.09	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#49	23.09	21.09	23.00	PASS
Band48	10MHz	QPSK	55290	50RB#0	22.20	20.20	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#0	22.89	20.89	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#24	22.88	20.88	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#49	22.92	20.92	23.00	PASS
Band48	10MHz	QPSK	55990	50RB#0	21.97	19.97	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#0	23.43	21.43	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#24	23.47	21.47	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#49	23.56	21.56	23.00	PASS
Band48	10MHz	QPSK	56690	50RB#0	22.54	20.54	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#0	22.15	20.15	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#24	22.11	20.11	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#49	22.11	20.11	23.00	PASS
Band48	10MHz	16QAM	55290	50RB#0	21.21	19.21	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#0	21.95	19.95	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#24	21.97	19.97	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#49	21.97	19.97	23.00	PASS
Band48	10MHz	16QAM	55990	50RB#0	21.03	19.03	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#0	22.46	20.46	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#24	22.51	20.51	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#49	22.58	20.58	23.00	PASS
Band48	10MHz	16QAM	56690	50RB#0	21.57	19.57	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#0	23.00	21.00	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#38	23.05	21.05	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#74	23.02	21.02	23.00	PASS
Band48	15MHz	QPSK	55315	75RB#0	22.16	20.16	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#0	22.81	20.81	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#38	22.88	20.88	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#74	22.97	20.97	23.00	PASS
Band48	15MHz	QPSK	55990	75RB#0	21.93	19.93	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#0	23.22	21.22	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#38	23.43	21.43	23.00	PASS



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Band48	15MHz	QPSK	56665	1RB#74	23.53	21.53	23.00	PASS
Band48	15MHz	QPSK	56665	75RB#0	22.36	20.36	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#0	22.09	20.09	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#38	22.08	20.08	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#74	22.10	20.10	23.00	PASS
Band48	15MHz	16QAM	55315	75RB#0	21.18	19.18	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#0	21.90	19.90	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#38	21.98	19.98	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#74	22.02	20.02	23.00	PASS
Band48	15MHz	16QAM	55990	75RB#0	21.01	19.01	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#0	22.32	20.32	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#38	22.55	20.55	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#74	22.64	20.64	23.00	PASS
Band48	15MHz	16QAM	56665	75RB#0	21.39	19.39	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#0	23.00	21.00	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#49	23.01	21.01	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#99	22.97	20.97	23.00	PASS
Band48	20MHz	QPSK	55340	100RB#0	22.15	20.15	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#0	22.77	20.77	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#49	22.87	20.87	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#99	22.93	20.93	23.00	PASS
Band48	20MHz	QPSK	55990	100RB#0	21.95	19.95	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#0	23.18	21.18	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#49	23.39	21.39	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#99	23.53	21.53	23.00	PASS
Band48	20MHz	QPSK	56640	100RB#0	22.37	20.37	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#0	22.03	20.03	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#49	22.05	20.05	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#99	22.00	20.00	23.00	PASS
Band48	20MHz	16QAM	55340	100RB#0	21.16	19.16	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#0	21.84	19.84	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#49	21.96	19.96	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#99	22.01	20.01	23.00	PASS



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Band48	20MHz	16QAM	55990	100RB#0	20.97	18.97	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#0	22.27	20.27	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#49	22.47	20.47	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#99	22.61	20.61	23.00	PASS
Band48	20MHz	16QAM	56640	100RB#0	21.40	19.40	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	7.10	13	PASS
Band48	20MHz	QPSK	55990	100RB#0	7.42	13	PASS
Band48	20MHz	QPSK	56640	100RB#0	7.36	13	PASS
Band48	20MHz	16QAM	55340	100RB#0	7.72	13	PASS
Band48	20MHz	16QAM	55990	100RB#0	8.24	13	PASS
Band48	20MHz	16QAM	56640	100RB#0	8.16	13	PASS



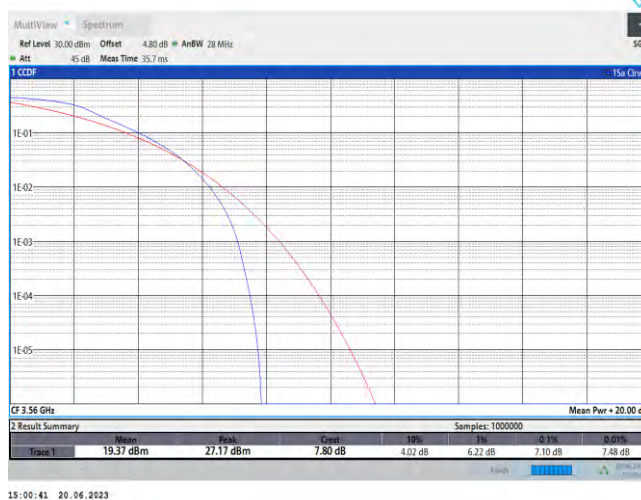
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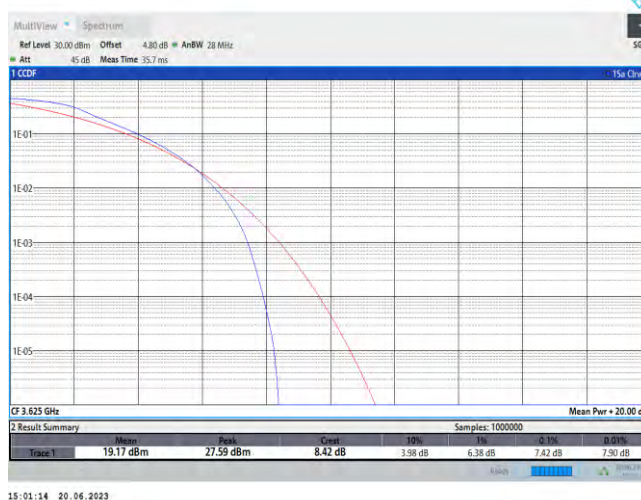
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Test Graphs

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



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



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



15:01:48 20.06.2023

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



15:00:57 20.06.2023



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



15:01:31 20.06.2023

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



15:02:04 20.06.2023



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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	55265	25RB#0	4.498	4.98	PASS
Band48	5MHz	QPSK	55990	25RB#0	4.497	4.98	PASS
Band48	5MHz	QPSK	56715	25RB#0	4.499	4.99	PASS
Band48	5MHz	16QAM	55265	25RB#0	4.506	5.14	PASS
Band48	5MHz	16QAM	55990	25RB#0	4.499	5.18	PASS
Band48	5MHz	16QAM	56715	25RB#0	4.504	5.17	PASS
Band48	10MHz	QPSK	55290	50RB#0	9.011	9.90	PASS
Band48	10MHz	QPSK	55990	50RB#0	8.982	9.87	PASS
Band48	10MHz	QPSK	56690	50RB#0	8.989	9.93	PASS
Band48	10MHz	16QAM	55290	50RB#0	8.962	9.87	PASS
Band48	10MHz	16QAM	55990	50RB#0	8.964	9.90	PASS
Band48	10MHz	16QAM	56690	50RB#0	8.971	9.87	PASS
Band48	15MHz	QPSK	55315	75RB#0	13.491	14.80	PASS
Band48	15MHz	QPSK	55990	75RB#0	13.489	14.85	PASS
Band48	15MHz	QPSK	56665	75RB#0	13.476	14.90	PASS
Band48	15MHz	16QAM	55315	75RB#0	13.471	14.95	PASS
Band48	15MHz	16QAM	55990	75RB#0	13.473	15.45	PASS
Band48	15MHz	16QAM	56665	75RB#0	13.471	14.90	PASS
Band48	20MHz	QPSK	55340	100RB#0	18.032	19.80	PASS
Band48	20MHz	QPSK	55990	100RB#0	17.994	19.80	PASS
Band48	20MHz	QPSK	56640	100RB#0	18.000	19.73	PASS
Band48	20MHz	16QAM	55340	100RB#0	18.002	19.67	PASS
Band48	20MHz	16QAM	55990	100RB#0	17.985	19.73	PASS
Band48	20MHz	16QAM	56640	100RB#0	17.988	19.67	PASS



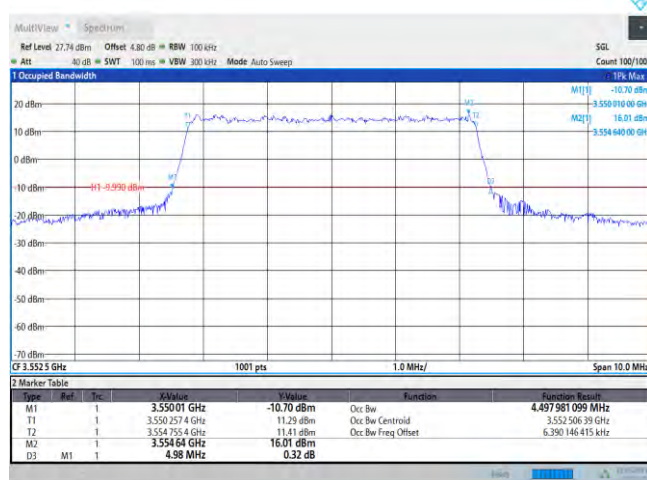
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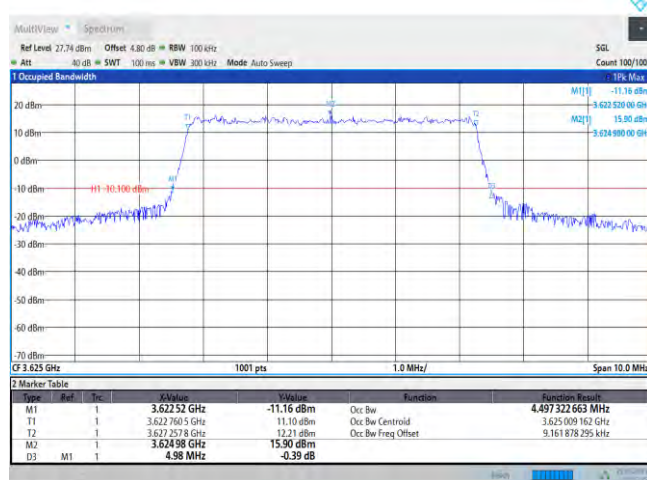
Test Graphs

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



14:14:29 22.05.2023

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



14:15:16 22.05.2023

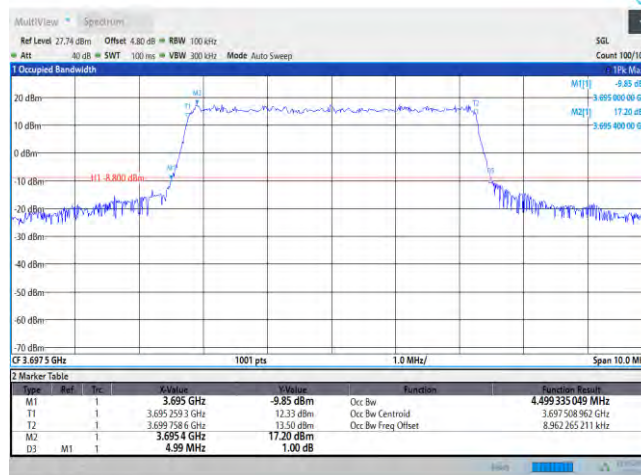


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Band48-5MHz-QPSK-56715-25RB#0



14:16:02 22.05.2023

Band48-5MHz-16QAM-55265-25RB#0



14:14:52 22.05.2023

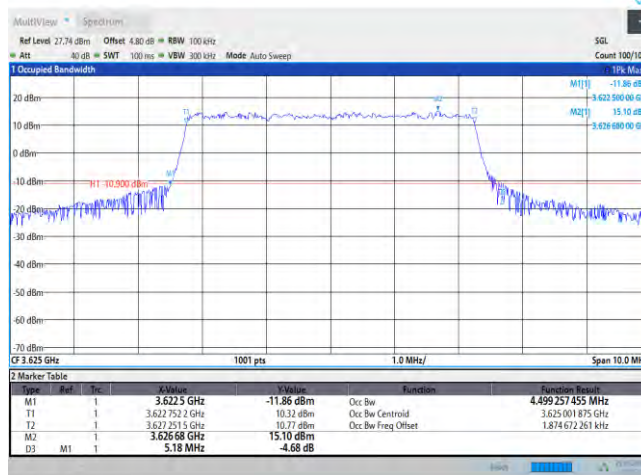


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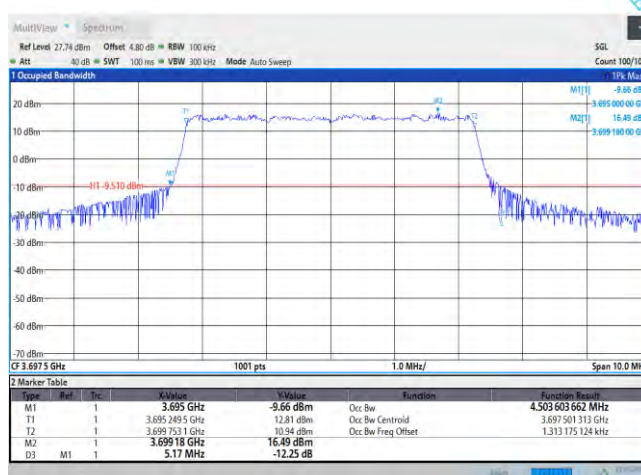
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Band48-5MHz-16QAM-55990-25RB#0



14:15:39 22.05.2023

Band48-5MHz-16QAM-56715-25RB#0



14:16:26 22.05.2023



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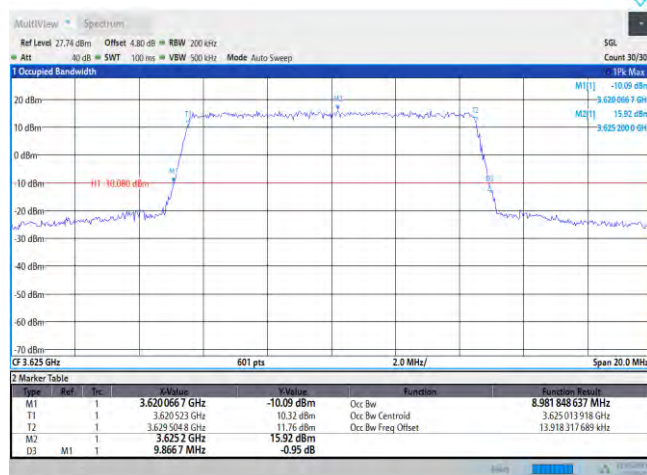
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Band48-10MHz-QPSK-55290-50RB#0



14:48:30 22.05.2023

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



14:49:02 22.05.2023



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



14:49:35 22.05.2023

Band48-10MHz-16QAM-55290-50RB#0



14:48:46 22.05.2023



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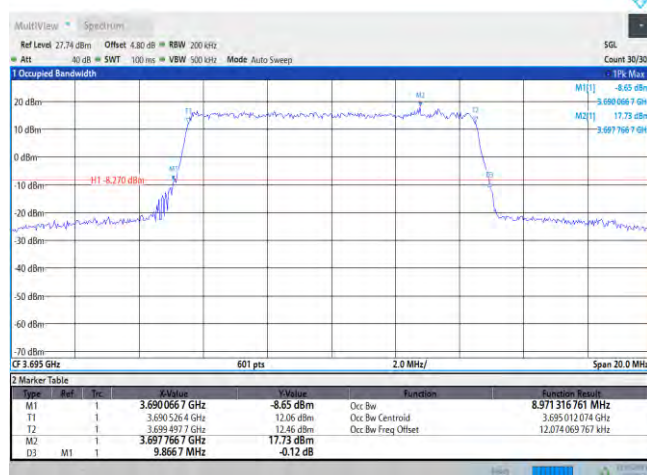
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Band48-10MHz-16QAM-55990-50RB#0



14:49:18 22.05.2023

Band48-10MHz-16QAM-56690-50RB#0



14:49:51 22.05.2023



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



15:22:28 22.05.2023

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



15:23:01 22.05.2023



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



Band48-15MHz-16QAM-55315-75RB#0



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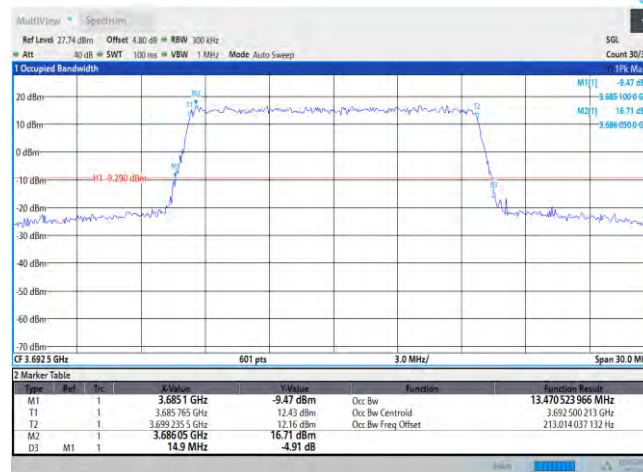
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Band48-15MHz-16QAM-55990-75RB#0



15:23:17 22.05.2023

Band48-15MHz-16QAM-56665-75RB#0



15:23:49 22.05.2023



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



15:56:59 22.05.2023

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



15:57:32 22.05.2023



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



15:58:05 22.05.2023

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



15:57:15 22.05.2023



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



15:57:48 22.05.2023

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



15:58:21 22.05.2023



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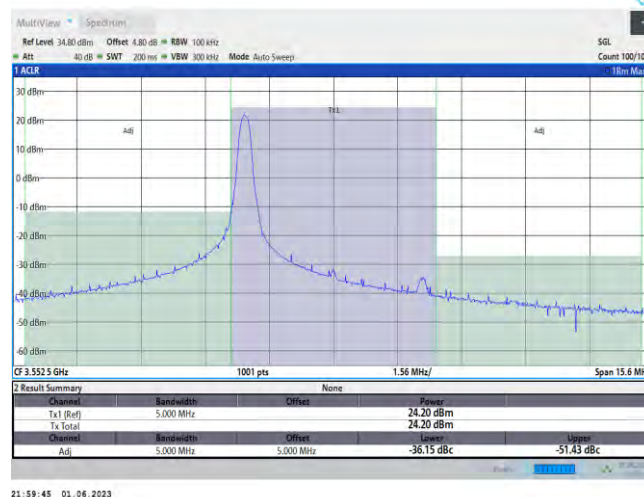
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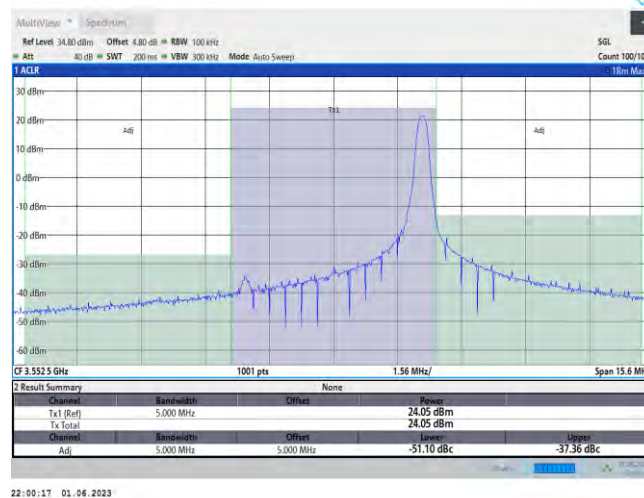
ACLR

Test Graphs

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



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



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



Band48-5MHz-QPSK-55990-1RB#0

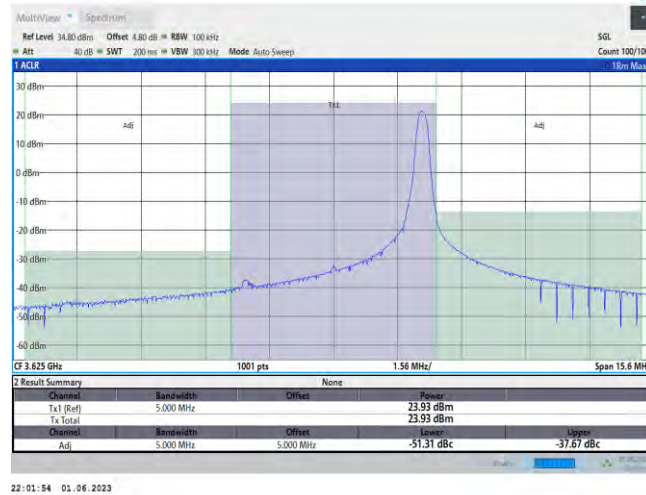


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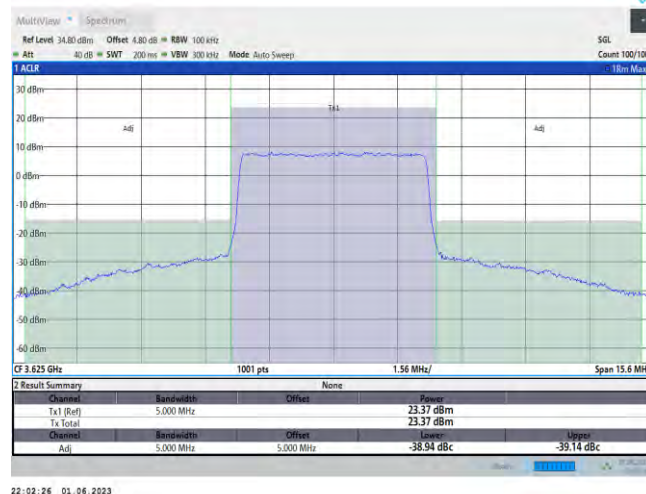
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Band48-5MHz-QPSK-55990-1RB#24



22-01-54 01.06.2023

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



22-02-26 01.06.2023



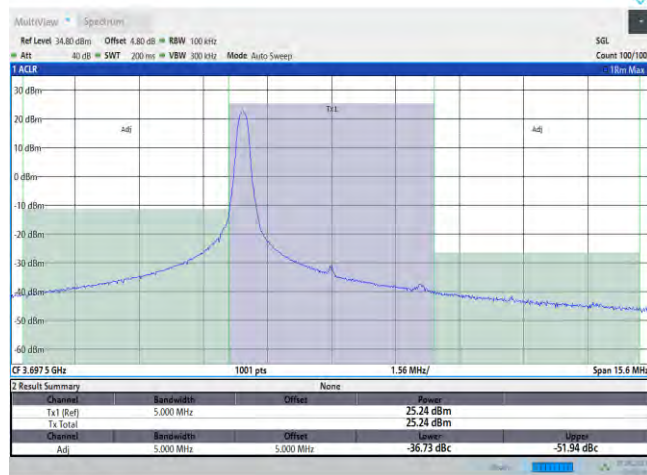
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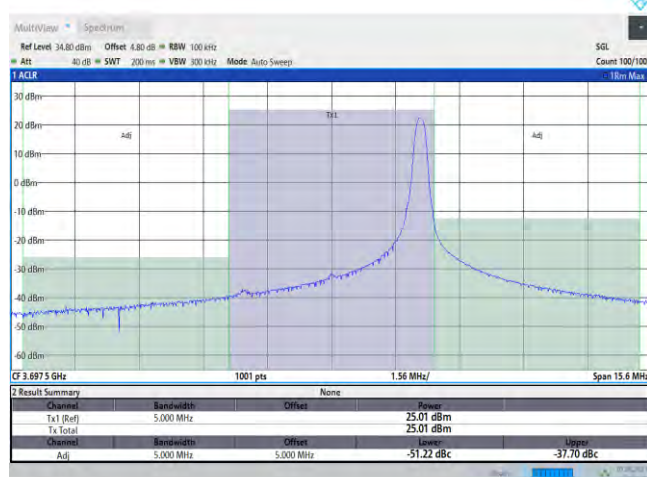
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Band48-5MHz-QPSK-56715-1RB#0



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



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



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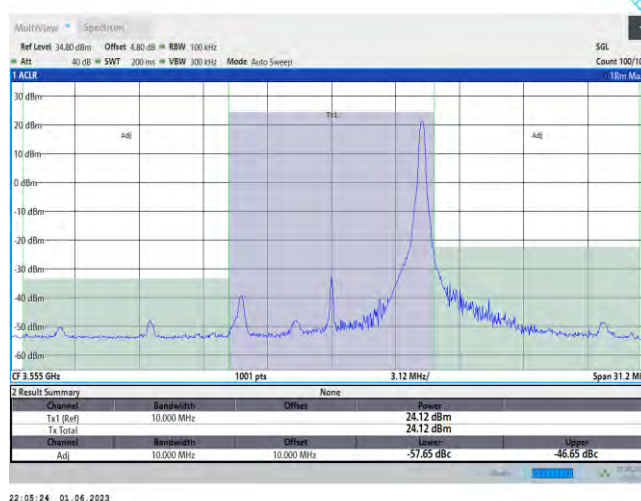
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Band48-10MHz-QPSK-55290-1RB#0



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

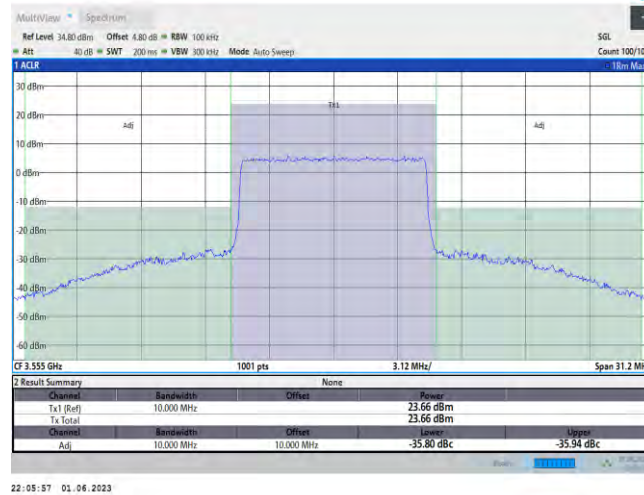


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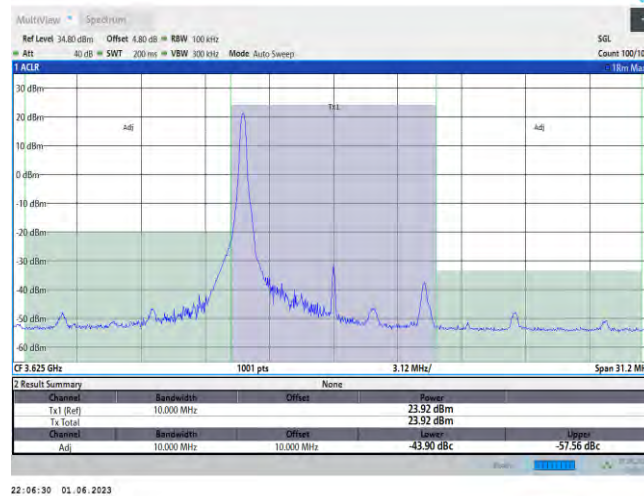
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Band48-10MHz-QPSK-55290-50RB#0



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



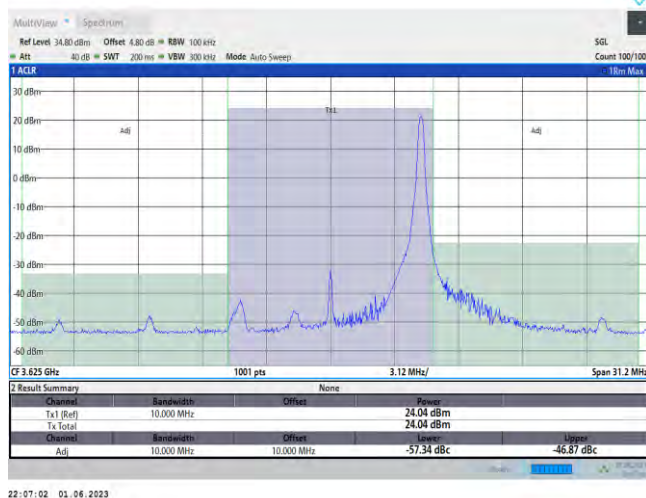
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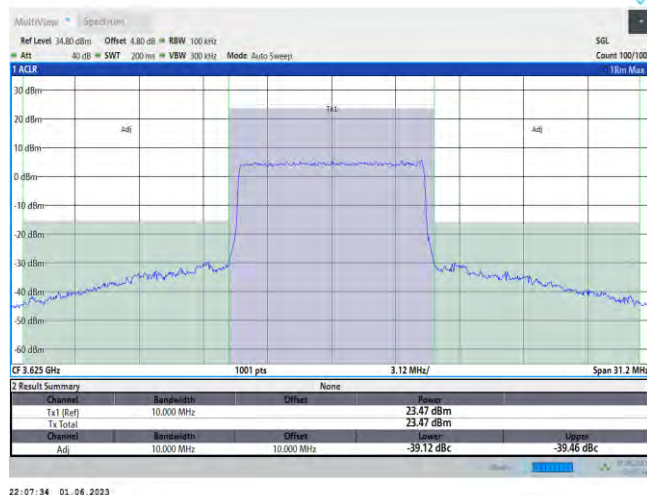
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Band48-10MHz-QPSK-55990-50RB#0



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

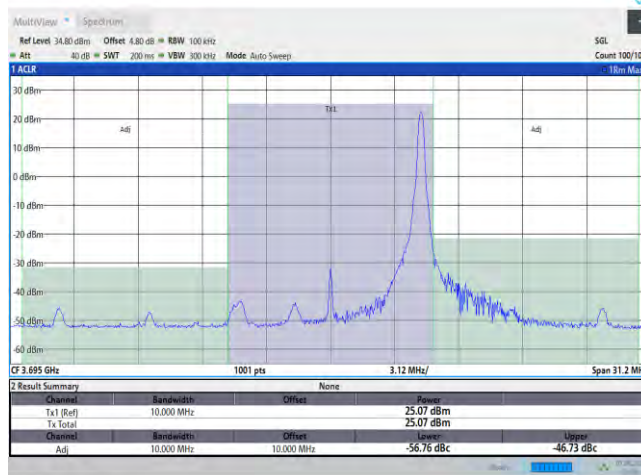


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Band48-10MHz-QPSK-56690-50RB#0

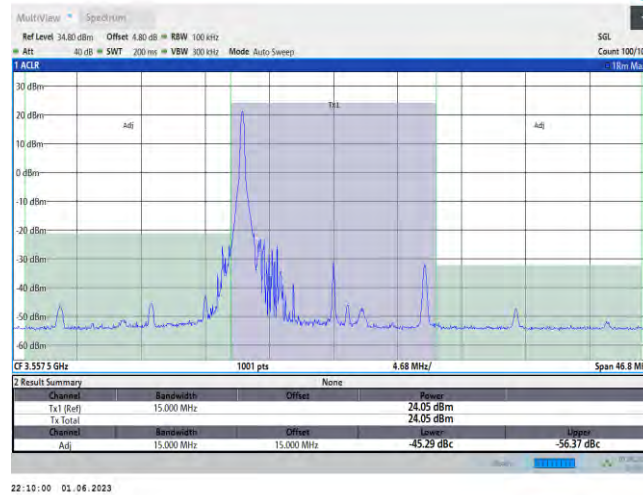


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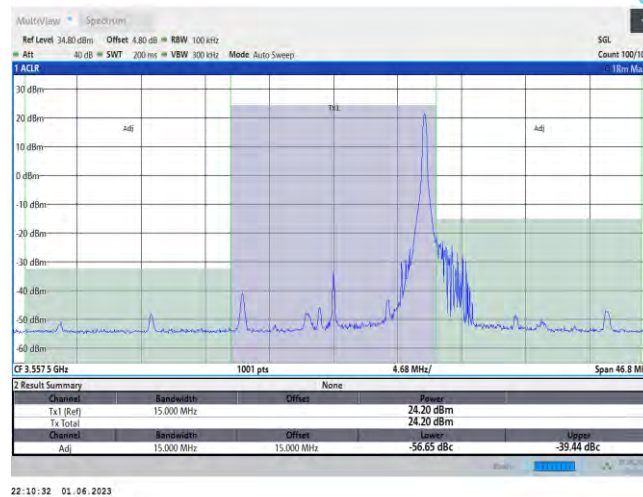
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Band48-15MHz-QPSK-55315-1RB#0



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



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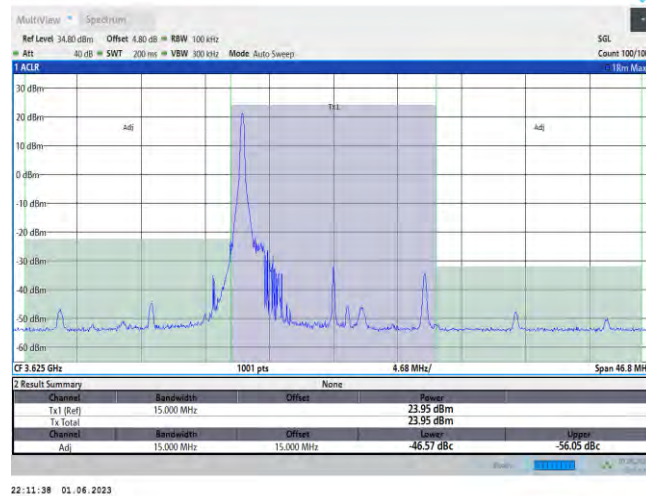
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Band48-15MHz-QPSK-55315-75RB#0



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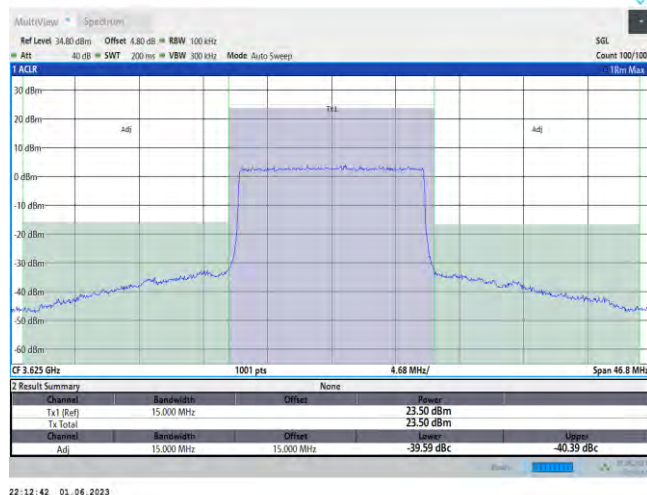
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Band48-15MHz-QPSK-55990-75RB#0



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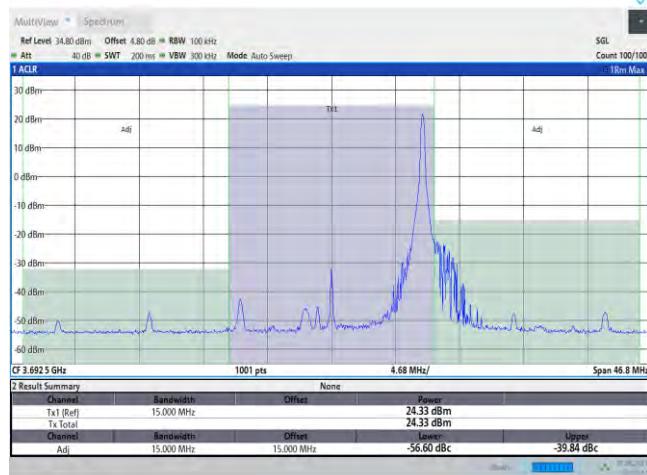


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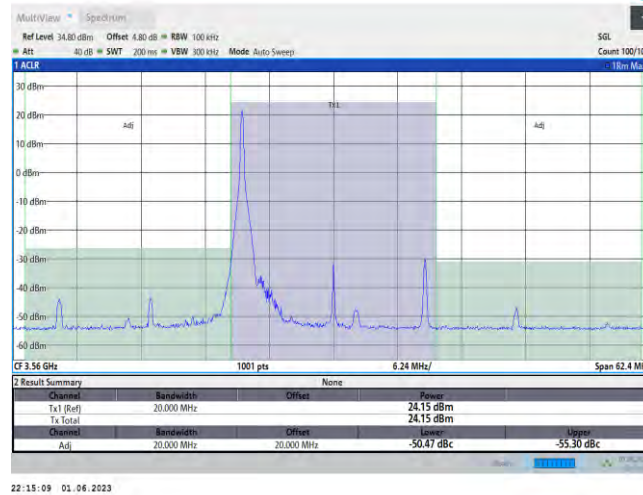
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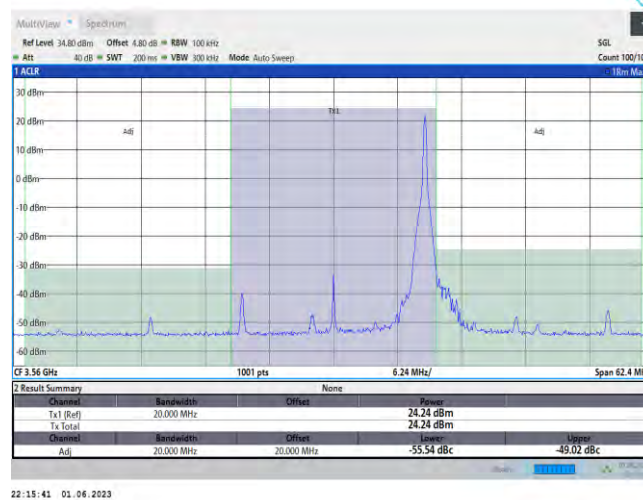
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Band48-20MHz-QPSK-55340-1RB#0



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



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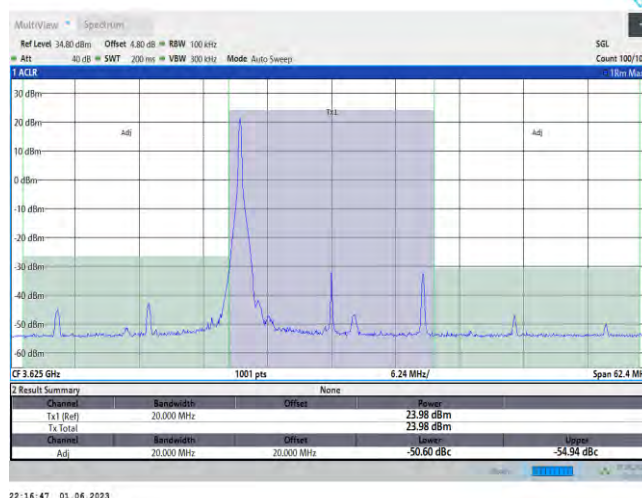
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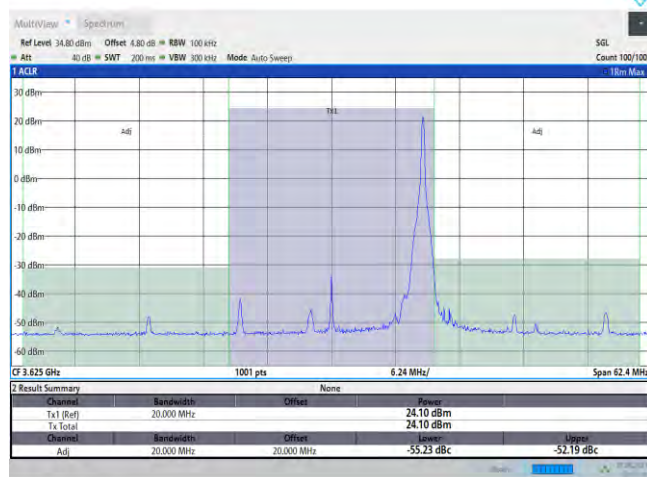
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Band48-20MHz-QPSK-55990-1RB#99



22:17:19 01.06.2023



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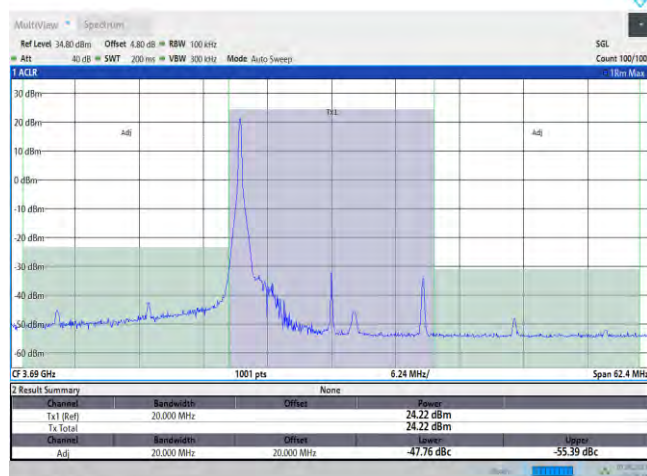
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Band48-20MHz-QPSK-55990-100RB#0



22:17:51 01.06.2023

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



22:18:24 01.06.2023



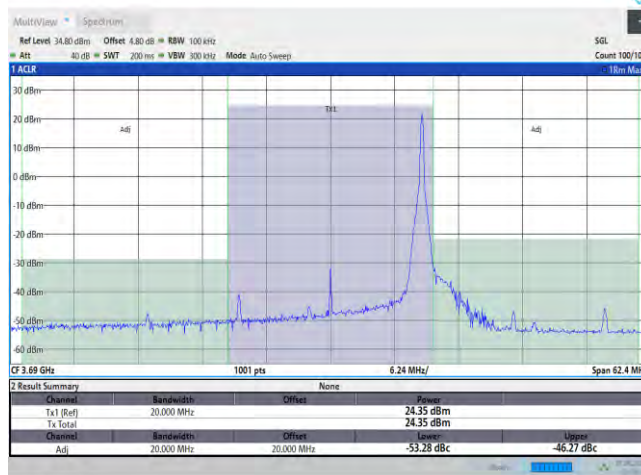
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Band48-20MHz-QPSK-56640-1RB#99



22:18:57 01.06.2023



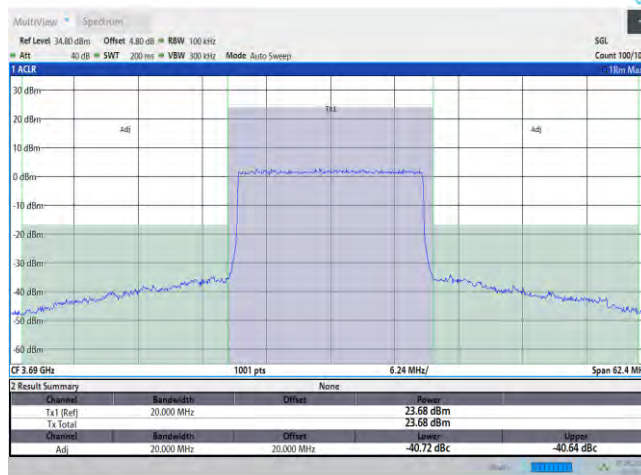
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Band48-20MHz-QPSK-56640-100RB#0



22:19:29 01.04.2023



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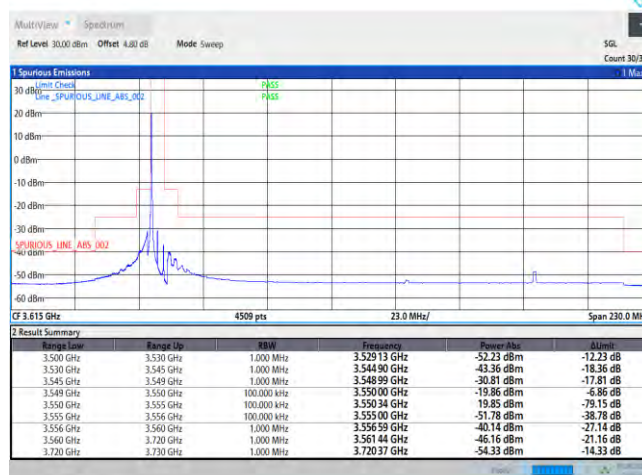
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Band Edge

Test Graphs

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



13:54:22 03.09.2023

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



13:59:07 03.09.2023

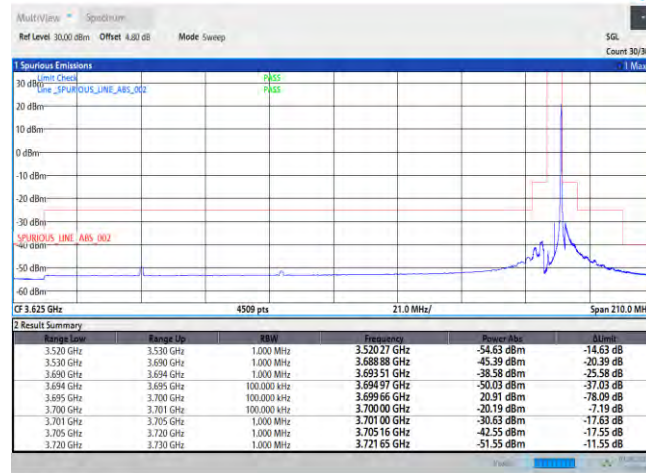


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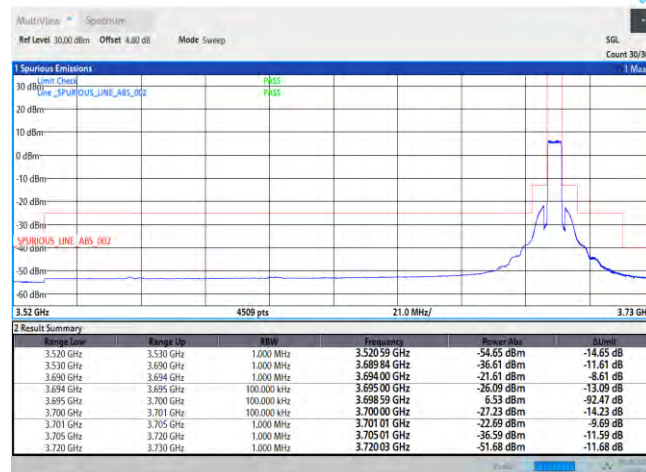
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Band48-5MHz-QPSK-56715-1RB#24



14:04:10 03.09.2023

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



14:08:54 03.09.2023

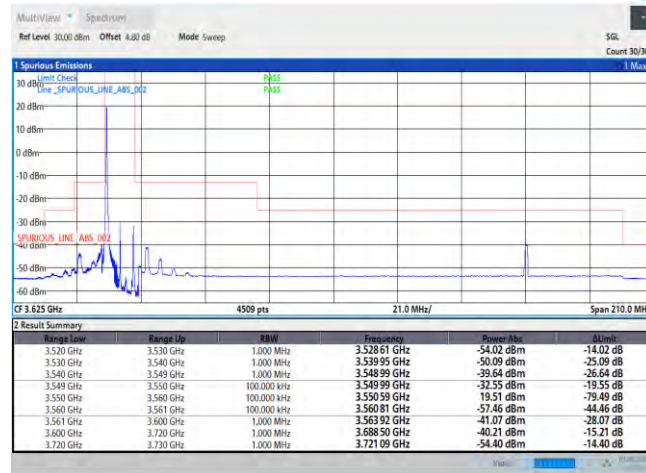


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Band48-10MHz-QPSK-55290-1RB#0



14:13:58 03.09.2023

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



14:20:07 03.09.2023

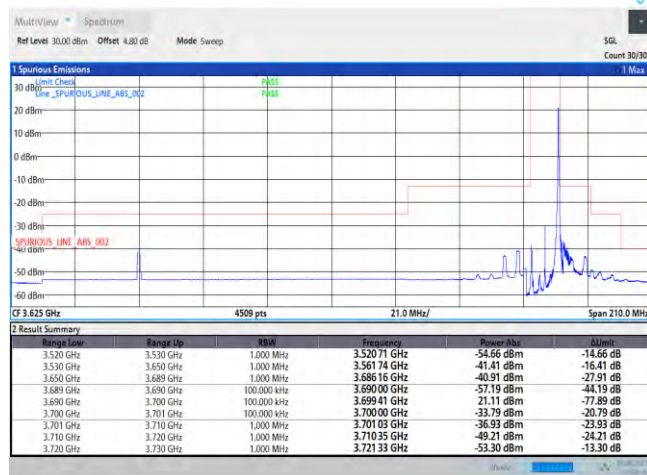


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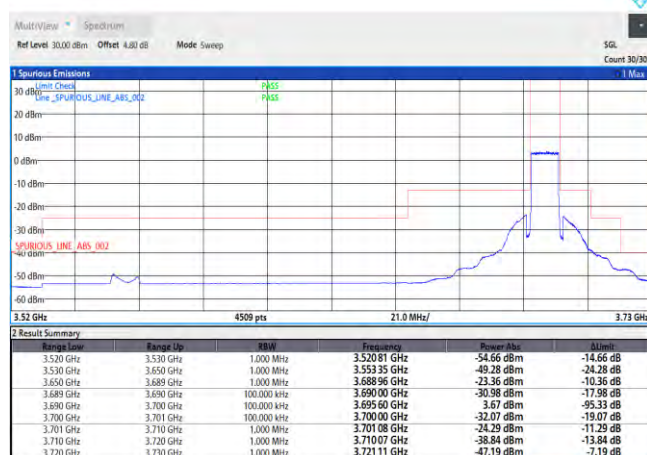
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Band48-10MHz-QPSK-56690-1RB#49



14:28:10 03.09.2023

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



14:29:55 03.09.2023

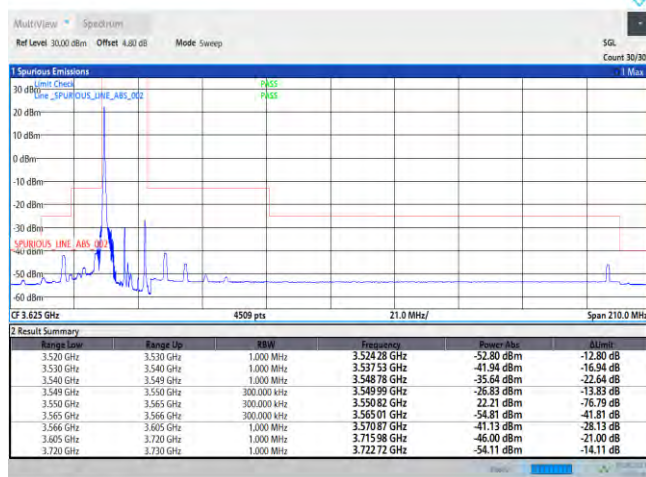


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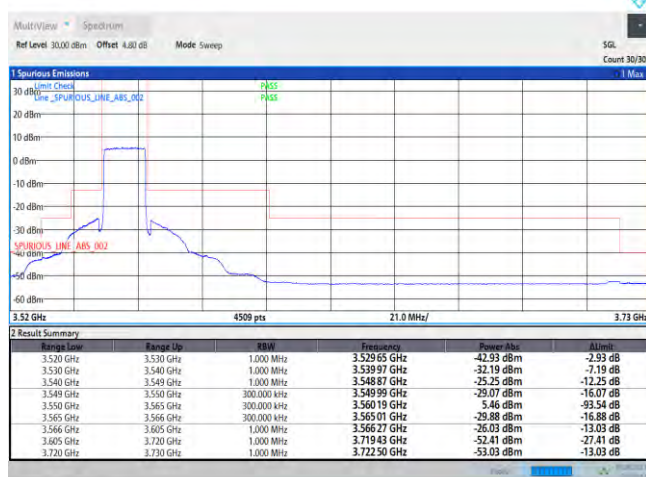
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Band48-15MHz-QPSK-55315-1RB#0



14:35:00 03.09.2023

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



14:39:48 03.09.2023



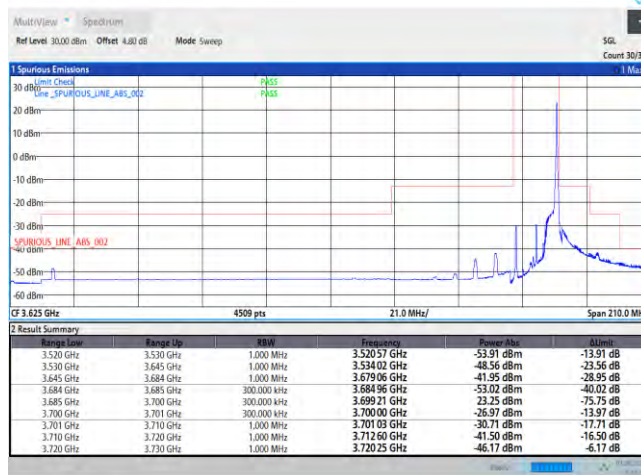
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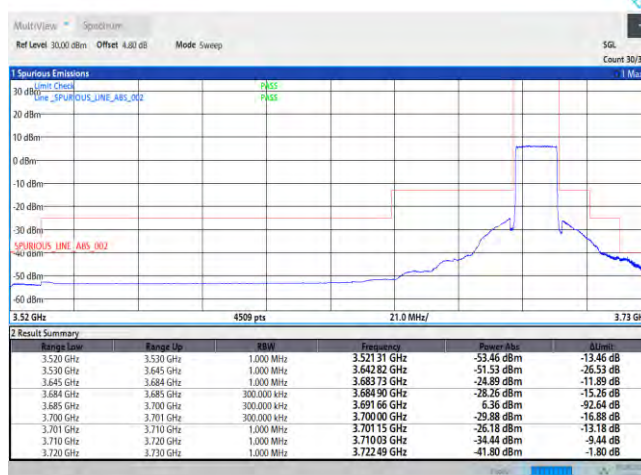
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Band48-15MHz-QPSK-56665-1RB#74



14:44:53 03.09.2023

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



14:49:57 03.09.2023

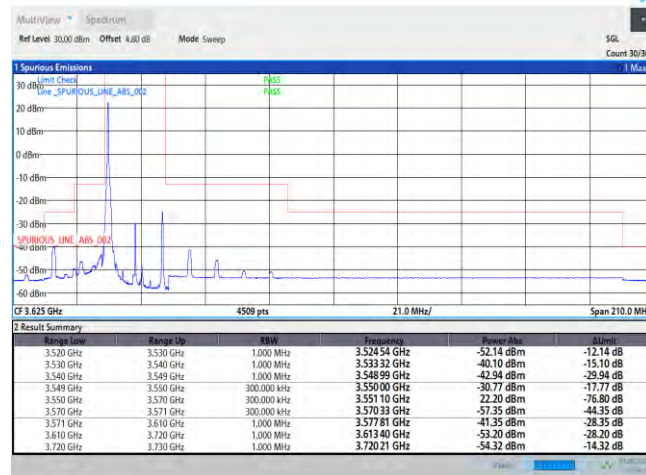


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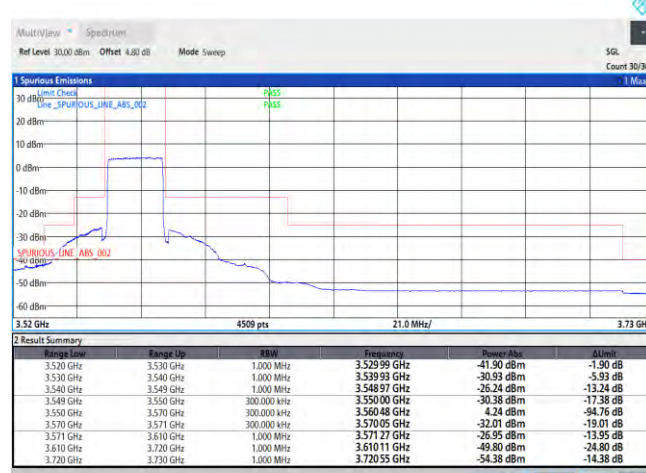
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Band48-20MHz-QPSK-55340-1RB#0



14:54:40 03.09.2023

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



14:59:24 03.09.2023

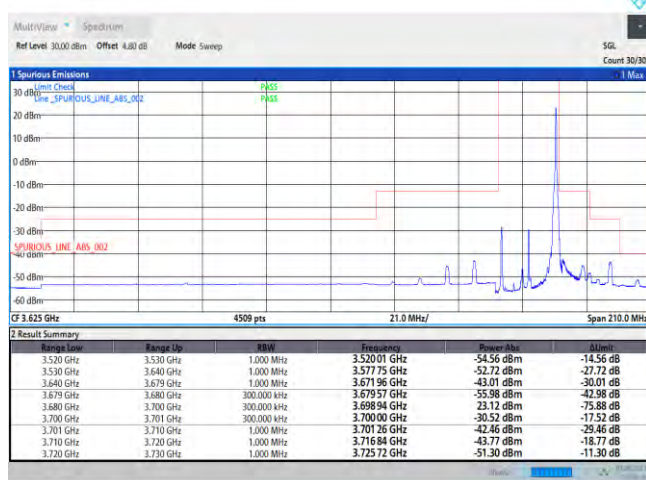


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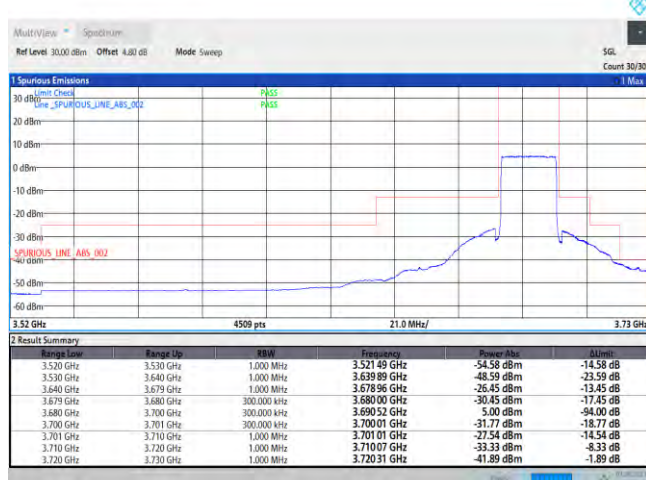
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Band48-20MHz-QPSK-56640-1RB#99



15:04:17 03.09.2023

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



15:09:02 03.09.2023



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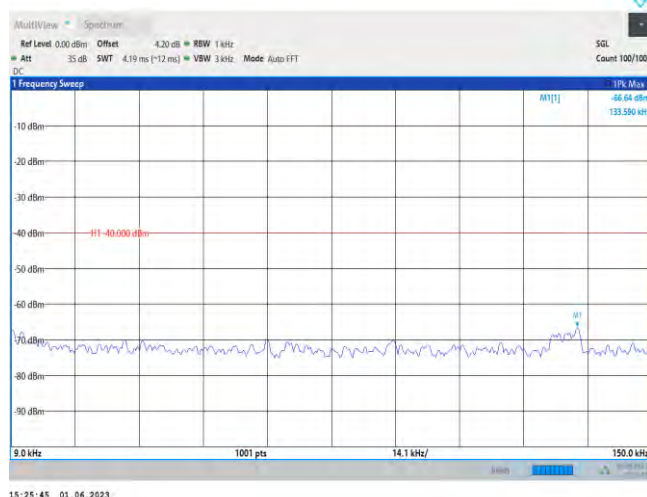
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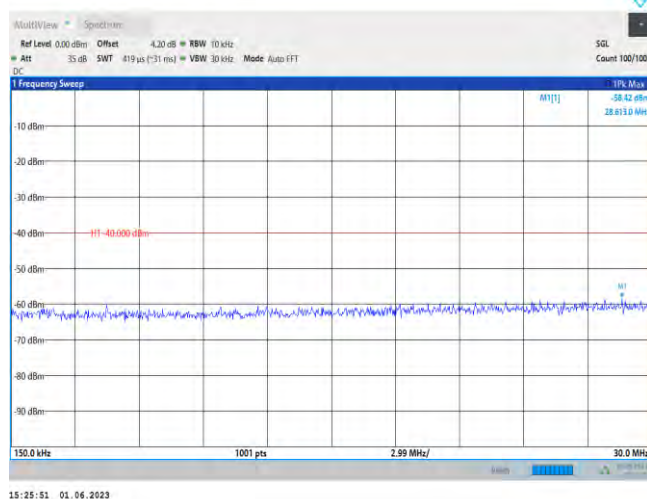
Conducted Spurious Emission

Test Graphs

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



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

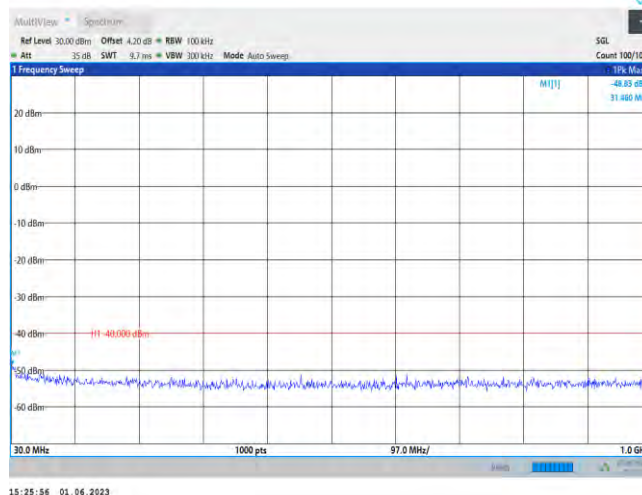


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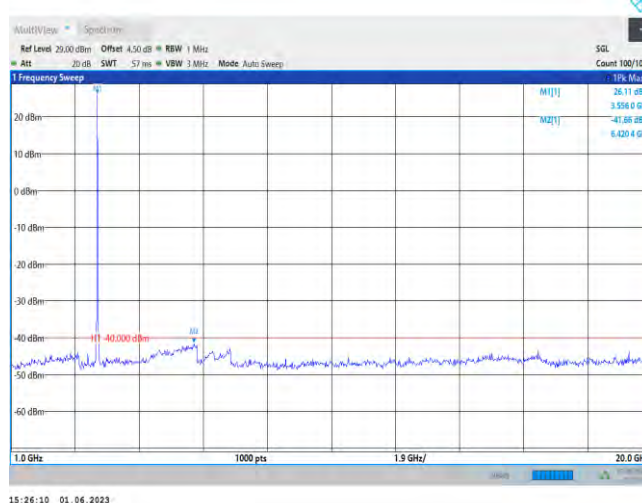
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Band48-20MHz-QPSK-55340-1RB#0-Range3:30~1000MHz



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



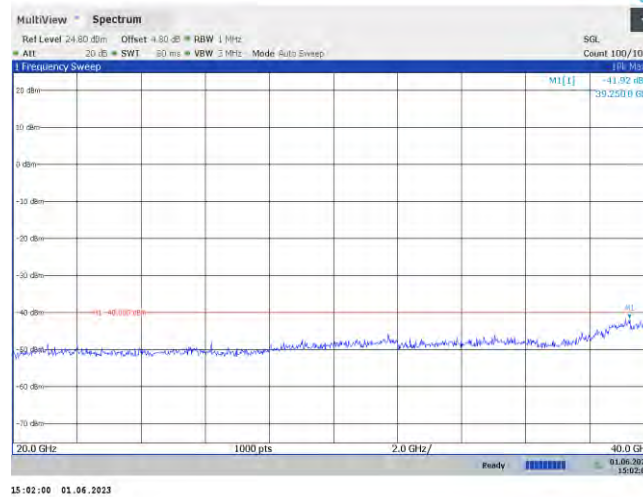
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Shenzhen Branch

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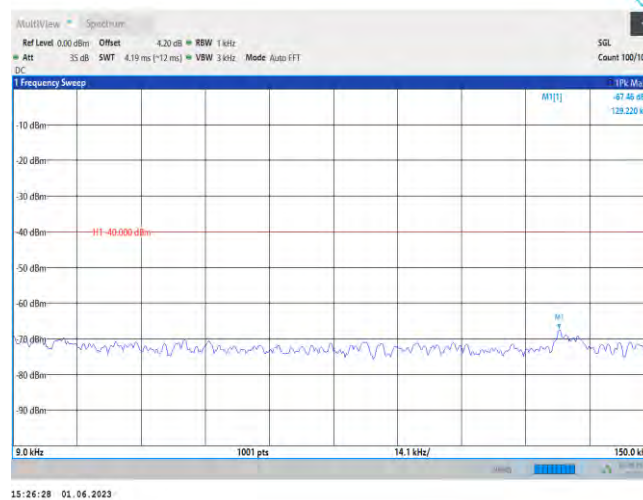
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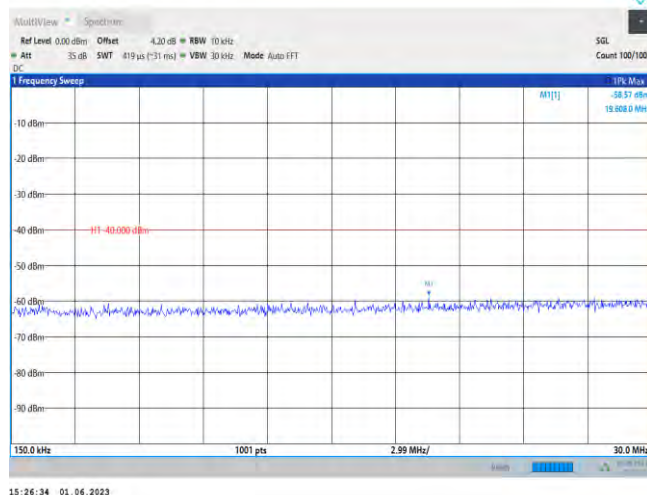
Band48-20MHz-QPSK-55340-1RB#0-Range5:20000~38000MHz



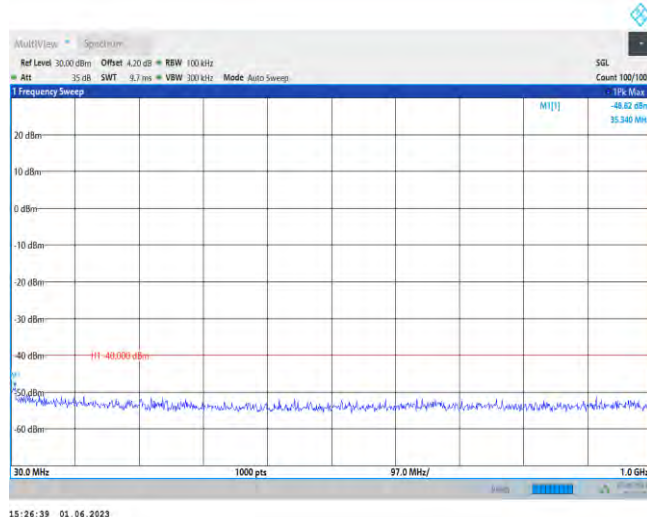
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Band48-20MHz-QPSK-55990-1RB#0-Range2:0.15~30MHz



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

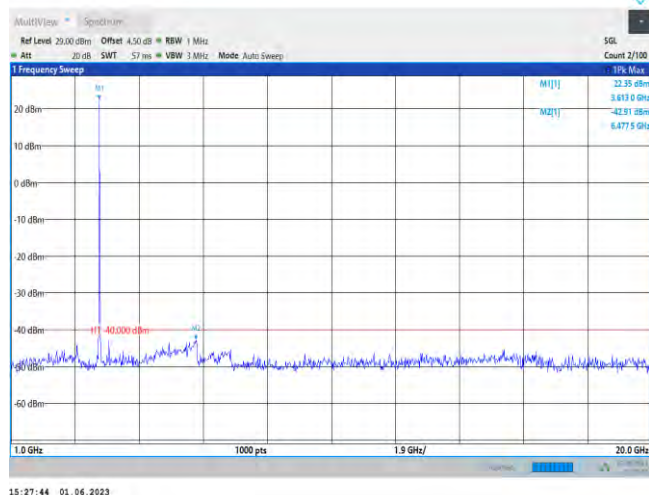


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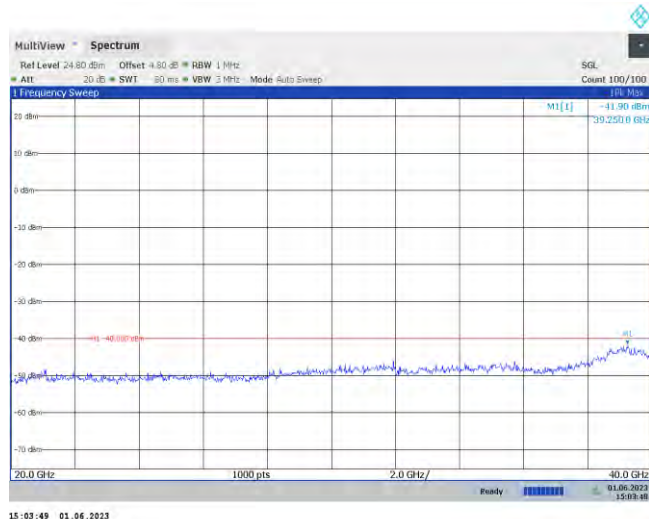
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Band48-20MHz-QPSK-55990-1RB#0-Range4:1000~20000MHz



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



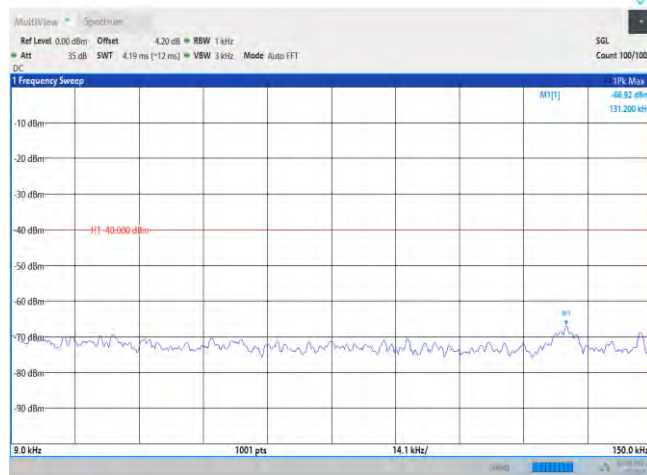
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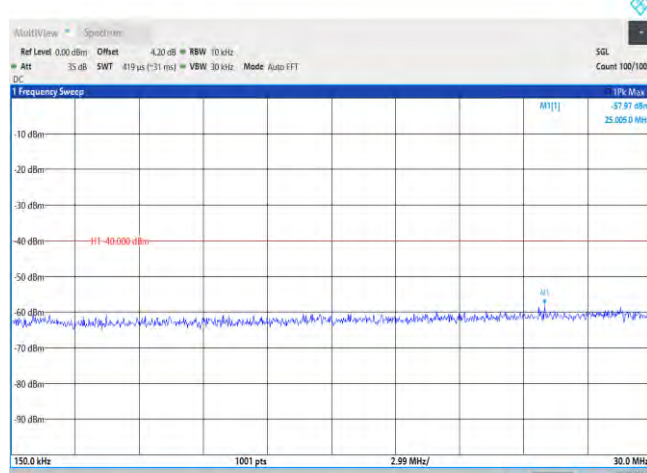
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Band48-20MHz-QPSK-56640-1RB#0-Range1:0.009~0.15MHz



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

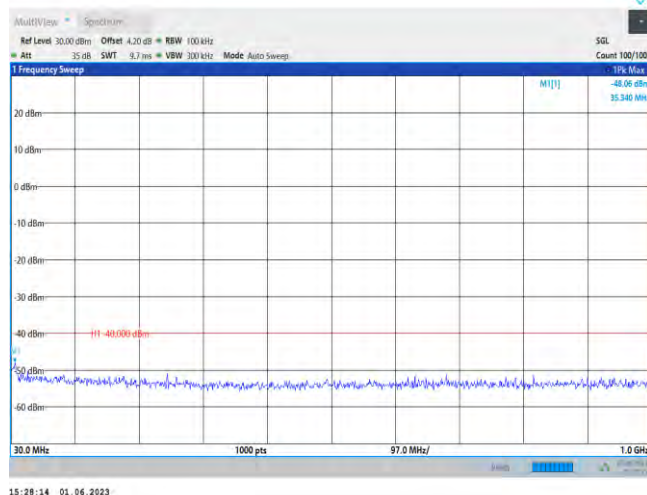


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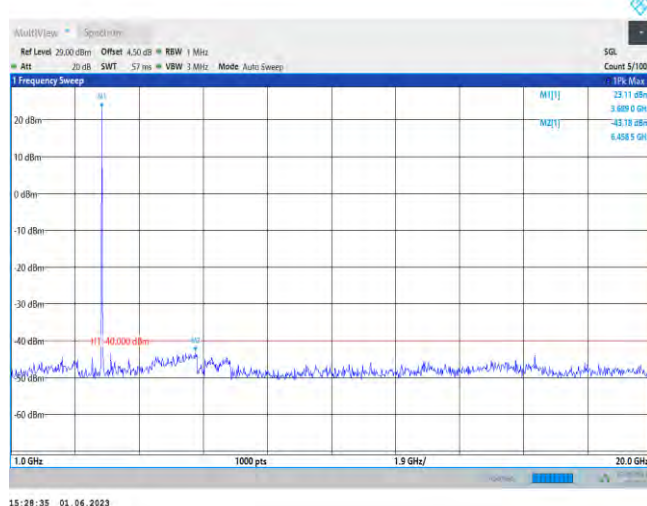
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Band48-20MHz-QPSK-56640-1RB#0-Range3:30~1000MHz



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



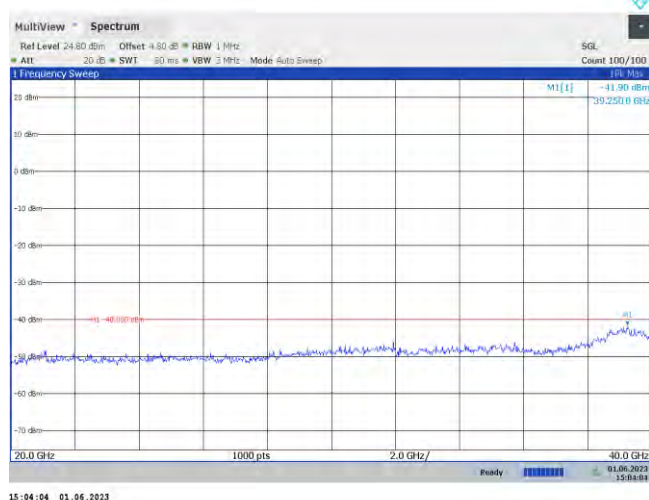
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Band48-20MHz-QPSK-56640-1RB#0-Range5:20000~38000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 48_20MHz_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8519.6875	39.99	-39.66	37.36	-57.57	-40.00	17.57	296	360	Horizontal
2	12579.1875	36.04	-34.67	39.10	-54.80	-40.00	14.80	265	52	Horizontal
3	7102.18	46.31	-42.23	36.12	-55.05	-40.00	15.05	284	187	Horizontal
4	10653.27	36.01	-36.02	38.23	-57.04	-40.00	17.04	142	166	Horizontal
5	14204.36	35.56	-34.87	40.26	-54.32	-40.00	14.32	263	129	Horizontal
6	17755.45	31.33	-30.96	40.71	-54.17	-40.00	14.17	228	218	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	8832.1042	39.71	-38.95	37.52	-56.98	-40.00	16.98	102	241	Vertical
2	12606.0208	35.61	-34.56	39.13	-55.09	-40.00	15.09	296	56	Vertical
3	7102.18	48.77	-42.23	36.12	-52.59	-40.00	12.59	265	75	Vertical
4	10653.27	36.81	-36.02	38.23	-56.24	-40.00	16.24	284	243	Vertical
5	14204.36	34.92	-34.87	40.26	-54.96	-40.00	14.96	142	357	Vertical
6	17755.45	31.07	-30.96	40.71	-54.43	-40.00	14.43	263	331	Vertical



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Test Band = LTE Band 48_20MHz_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7232.1667	49.94	-42.00	36.28	-51.04	-40.00	11.04	196	205	Horizontal
2	9421	38.80	-37.74	37.73	-56.48	-40.00	16.48	265	298	Horizontal
3	12566.25	35.86	-34.77	39.08	-55.09	-40.00	15.09	254	260	Horizontal
4	16849.5208	35.94	-32.34	38.79	-52.87	-40.00	12.87	142	241	Horizontal
5	10848.27	39.81	-35.61	38.32	-52.74	-40.00	12.74	263	149	Horizontal
6	14464.36	34.57	-35.01	40.21	-55.49	-40.00	15.49	228	205	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	7232.1667	51.42	-42.00	36.28	-49.56	-40.00	9.56	102	51	Vertical
2	8942.3125	39.88	-38.82	37.57	-56.63	-40.00	16.63	265	350	Vertical
3	12931.8542	36.58	-34.94	39.52	-54.10	-40.00	14.10	284	315	Vertical
4	17615.7083	33.27	-31.76	40.38	-53.37	-40.00	13.37	142	296	Vertical
5	10848.27	44.92	-35.61	38.32	-47.63	-40.00	7.63	263	111	Vertical
6	14464.36	34.84	-35.01	40.21	-55.22	-40.00	15.22	228	34	Vertical



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Test Band = LTE Band 48_20MHz_TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7362.0208	46.67	-41.89	36.43	-54.05	-40.00	14.05	102	204	Horizontal
2	8961.9583	39.89	-38.76	37.58	-56.55	-40.00	16.55	265	130	Horizontal
3	13463.7292	36.36	-34.33	39.92	-53.30	-40.00	13.30	284	296	Horizontal
4	17705.7917	32.89	-31.04	40.59	-52.82	-40.00	12.82	142	360	Horizontal
5	11043.27	38.87	-35.46	38.40	-53.45	-40.00	13.45	296	240	Horizontal
6	14724.36	34.67	-34.33	40.16	-54.77	-40.00	14.77	223	204	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	9471.7917	39.94	-37.97	37.74	-55.55	-40.00	15.55	196	37	Vertical
2	13590.7083	36.61	-34.37	40.01	-53.01	-40.00	13.01	265	200	Vertical
3	17916.1458	33.53	-31.20	41.10	-51.83	-40.00	11.83	284	334	Vertical
4	7362.18	47.25	-41.89	36.44	-53.47	-40.00	13.47	100	239	Vertical
5	11043.27	41.36	-35.46	38.40	-50.96	-40.00	10.96	144	144	Vertical
6	14724.36	33.49	-34.33	40.16	-55.95	-40.00	15.95	228	315	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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band48	20MHz	QPSK	55990	100RB#0	VL	NT	-1.30	-0.000359	PASS
Band48	20MHz	QPSK	55990	100RB#0	VN	NT	5.80	0.001600	PASS
Band48	20MHz	QPSK	55990	100RB#0	VH	NT	1.90	0.000524	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band48	20MHz	QPSK	55990	100RB#0	NV	-30	3.20	0.000883	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-20	3.10	0.000855	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-10	3.60	0.000685	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	0	-1.00	-0.000276	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	10	1.20	0.000331	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	20	1.70	0.000469	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	30	0.70	0.000193	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	40	3.30	0.000910	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	50	4.90	0.001352	PASS

---End of Attachment---



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