



Appendix B.1

LTE Band 48



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT6

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	20.75	22.71	23	PASS
Band48	5MHz	QPSK	55265	1RB#12	20.85	22.81	23	PASS
Band48	5MHz	QPSK	55265	1RB#24	20.80	22.76	23	PASS
Band48	5MHz	QPSK	55265	25RB#0	19.93	21.89	23	PASS
Band48	5MHz	QPSK	55990	1RB#0	20.85	22.81	23	PASS
Band48	5MHz	QPSK	55990	1RB#12	20.97	22.93	23	PASS
Band48	5MHz	QPSK	55990	1RB#24	20.89	22.85	23	PASS
Band48	5MHz	QPSK	55990	25RB#0	19.91	21.87	23	PASS
Band48	5MHz	QPSK	56715	1RB#0	20.82	22.78	23	PASS
Band48	5MHz	QPSK	56715	1RB#12	20.91	22.87	23	PASS
Band48	5MHz	QPSK	56715	1RB#24	20.77	22.73	23	PASS
Band48	5MHz	QPSK	56715	25RB#0	19.95	21.91	23	PASS
Band48	5MHz	16QAM	55265	1RB#0	19.98	21.94	23	PASS
Band48	5MHz	16QAM	55265	1RB#12	20.03	21.99	23	PASS
Band48	5MHz	16QAM	55265	1RB#24	20.04	22.00	23	PASS
Band48	5MHz	16QAM	55265	25RB#0	19.05	21.01	23	PASS
Band48	5MHz	16QAM	55990	1RB#0	20.07	22.03	23	PASS
Band48	5MHz	16QAM	55990	1RB#12	20.08	22.04	23	PASS
Band48	5MHz	16QAM	55990	1RB#24	20.11	22.07	23	PASS
Band48	5MHz	16QAM	55990	25RB#0	19.01	20.97	23	PASS
Band48	5MHz	16QAM	56715	1RB#0	20.04	22.00	23	PASS
Band48	5MHz	16QAM	56715	1RB#12	20.03	21.99	23	PASS
Band48	5MHz	16QAM	56715	1RB#24	20.04	22.00	23	PASS
Band48	5MHz	16QAM	56715	25RB#0	18.93	20.89	23	PASS
Band48	5MHz	64QAM	55265	1RB#0	18.55	20.51	23	PASS
Band48	5MHz	64QAM	55265	1RB#12	18.59	20.55	23	PASS
Band48	5MHz	64QAM	55265	1RB#24	18.58	20.54	23	PASS



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Band48	5MHz	64QAM	55265	25RB#0	17.95	19.91	23	PASS
Band48	5MHz	64QAM	55990	1RB#0	18.61	20.57	23	PASS
Band48	5MHz	64QAM	55990	1RB#12	18.66	20.62	23	PASS
Band48	5MHz	64QAM	55990	1RB#24	18.65	20.61	23	PASS
Band48	5MHz	64QAM	55990	25RB#0	18.05	20.01	23	PASS
Band48	5MHz	64QAM	56715	1RB#0	18.60	20.56	23	PASS
Band48	5MHz	64QAM	56715	1RB#12	18.57	20.53	23	PASS
Band48	5MHz	64QAM	56715	1RB#24	18.58	20.54	23	PASS
Band48	5MHz	64QAM	56715	25RB#0	17.99	19.95	23	PASS
Band48	5MHz	256QAM	55265	1RB#0	15.68	17.64	23	PASS
Band48	5MHz	256QAM	55265	1RB#12	15.72	17.68	23	PASS
Band48	5MHz	256QAM	55265	1RB#24	15.69	17.65	23	PASS
Band48	5MHz	256QAM	55265	25RB#0	15.91	17.87	23	PASS
Band48	5MHz	256QAM	55990	1RB#0	15.77	17.73	23	PASS
Band48	5MHz	256QAM	55990	1RB#12	15.80	17.76	23	PASS
Band48	5MHz	256QAM	55990	1RB#24	15.82	17.78	23	PASS
Band48	5MHz	256QAM	55990	25RB#0	15.89	17.85	23	PASS
Band48	5MHz	256QAM	56715	1RB#0	15.73	17.69	23	PASS
Band48	5MHz	256QAM	56715	1RB#12	15.76	17.72	23	PASS
Band48	5MHz	256QAM	56715	1RB#24	15.81	17.77	23	PASS
Band48	5MHz	256QAM	56715	25RB#0	15.94	17.90	23	PASS
Band48	10MHz	QPSK	55290	1RB#0	20.73	22.69	23	PASS
Band48	10MHz	QPSK	55290	1RB#24	20.85	22.81	23	PASS
Band48	10MHz	QPSK	55290	1RB#49	20.82	22.78	23	PASS
Band48	10MHz	QPSK	55290	50RB#0	19.95	21.91	23	PASS
Band48	10MHz	QPSK	55990	1RB#0	20.81	22.77	23	PASS
Band48	10MHz	QPSK	55990	1RB#24	20.89	22.85	23	PASS
Band48	10MHz	QPSK	55990	1RB#49	20.86	22.82	23	PASS
Band48	10MHz	QPSK	55990	50RB#0	20.00	21.96	23	PASS
Band48	10MHz	QPSK	56690	1RB#0	20.83	22.79	23	PASS
Band48	10MHz	QPSK	56690	1RB#24	20.86	22.82	23	PASS
Band48	10MHz	QPSK	56690	1RB#49	20.80	22.76	23	PASS
Band48	10MHz	QPSK	56690	50RB#0	19.97	21.93	23	PASS



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Band48	10MHz	16QAM	55290	1RB#0	19.98	21.94	23	PASS
Band48	10MHz	16QAM	55290	1RB#24	20.06	22.02	23	PASS
Band48	10MHz	16QAM	55290	1RB#49	20.09	22.05	23	PASS
Band48	10MHz	16QAM	55290	50RB#0	18.98	20.94	23	PASS
Band48	10MHz	16QAM	55990	1RB#0	20.03	21.99	23	PASS
Band48	10MHz	16QAM	55990	1RB#24	20.09	22.05	23	PASS
Band48	10MHz	16QAM	55990	1RB#49	20.10	22.06	23	PASS
Band48	10MHz	16QAM	55990	50RB#0	19.03	20.99	23	PASS
Band48	10MHz	16QAM	56690	1RB#0	20.06	22.02	23	PASS
Band48	10MHz	16QAM	56690	1RB#24	20.08	22.04	23	PASS
Band48	10MHz	16QAM	56690	1RB#49	20.01	21.97	23	PASS
Band48	10MHz	16QAM	56690	50RB#0	18.98	20.94	23	PASS
Band48	10MHz	64QAM	55290	1RB#0	18.54	20.50	23	PASS
Band48	10MHz	64QAM	55290	1RB#24	18.63	20.59	23	PASS
Band48	10MHz	64QAM	55290	1RB#49	18.67	20.63	23	PASS
Band48	10MHz	64QAM	55290	50RB#0	17.96	19.92	23	PASS
Band48	10MHz	64QAM	55990	1RB#0	18.62	20.58	23	PASS
Band48	10MHz	64QAM	55990	1RB#24	18.69	20.65	23	PASS
Band48	10MHz	64QAM	55990	1RB#49	18.67	20.63	23	PASS
Band48	10MHz	64QAM	55990	50RB#0	17.99	19.95	23	PASS
Band48	10MHz	64QAM	56690	1RB#0	18.60	20.56	23	PASS
Band48	10MHz	64QAM	56690	1RB#24	18.62	20.58	23	PASS
Band48	10MHz	64QAM	56690	1RB#49	18.57	20.53	23	PASS
Band48	10MHz	64QAM	56690	50RB#0	17.97	19.93	23	PASS
Band48	10MHz	256QAM	55290	1RB#0	15.68	17.64	23	PASS
Band48	10MHz	256QAM	55290	1RB#24	15.59	17.55	23	PASS
Band48	10MHz	256QAM	55290	1RB#49	15.59	17.55	23	PASS
Band48	10MHz	256QAM	55290	50RB#0	15.58	17.54	23	PASS
Band48	10MHz	256QAM	55990	1RB#0	15.77	17.73	23	PASS
Band48	10MHz	256QAM	55990	1RB#24	15.75	17.71	23	PASS
Band48	10MHz	256QAM	55990	1RB#49	15.74	17.70	23	PASS
Band48	10MHz	256QAM	55990	50RB#0	15.86	17.82	23	PASS
Band48	10MHz	256QAM	56690	1RB#0	15.76	17.72	23	PASS



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Band48	10MHz	256QAM	56690	1RB#24	15.66	17.62	23	PASS
Band48	10MHz	256QAM	56690	1RB#49	15.77	17.73	23	PASS
Band48	10MHz	256QAM	56690	50RB#0	15.87	17.83	23	PASS
Band48	15MHz	QPSK	55315	1RB#0	20.67	22.63	23	PASS
Band48	15MHz	QPSK	55315	1RB#38	20.82	22.78	23	PASS
Band48	15MHz	QPSK	55315	1RB#74	20.82	22.78	23	PASS
Band48	15MHz	QPSK	55315	75RB#0	19.96	21.92	23	PASS
Band48	15MHz	QPSK	55990	1RB#0	20.75	22.71	23	PASS
Band48	15MHz	QPSK	55990	1RB#38	20.86	22.82	23	PASS
Band48	15MHz	QPSK	55990	1RB#74	20.79	22.75	23	PASS
Band48	15MHz	QPSK	55990	75RB#0	19.97	21.93	23	PASS
Band48	15MHz	QPSK	56665	1RB#0	20.74	22.70	23	PASS
Band48	15MHz	QPSK	56665	1RB#38	20.84	22.80	23	PASS
Band48	15MHz	QPSK	56665	1RB#74	20.75	22.71	23	PASS
Band48	15MHz	QPSK	56665	75RB#0	19.97	21.93	23	PASS
Band48	15MHz	16QAM	55315	1RB#0	19.91	21.87	23	PASS
Band48	15MHz	16QAM	55315	1RB#38	20.04	22.00	23	PASS
Band48	15MHz	16QAM	55315	1RB#74	20.03	21.99	23	PASS
Band48	15MHz	16QAM	55315	75RB#0	18.92	20.88	23	PASS
Band48	15MHz	16QAM	55990	1RB#0	19.99	21.95	23	PASS
Band48	15MHz	16QAM	55990	1RB#38	20.08	22.04	23	PASS
Band48	15MHz	16QAM	55990	1RB#74	20.06	22.02	23	PASS
Band48	15MHz	16QAM	55990	75RB#0	18.97	20.93	23	PASS
Band48	15MHz	16QAM	56665	1RB#0	20.00	21.96	23	PASS
Band48	15MHz	16QAM	56665	1RB#38	20.06	22.02	23	PASS
Band48	15MHz	16QAM	56665	1RB#74	20.01	21.97	23	PASS
Band48	15MHz	16QAM	56665	75RB#0	18.98	20.94	23	PASS
Band48	15MHz	64QAM	55315	1RB#0	18.50	20.46	23	PASS
Band48	15MHz	64QAM	55315	1RB#38	18.63	20.59	23	PASS
Band48	15MHz	64QAM	55315	1RB#74	18.59	20.55	23	PASS
Band48	15MHz	64QAM	55315	75RB#0	17.94	19.90	23	PASS
Band48	15MHz	64QAM	55990	1RB#0	18.57	20.53	23	PASS
Band48	15MHz	64QAM	55990	1RB#38	18.64	20.60	23	PASS



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Band48	15MHz	64QAM	55990	1RB#74	18.63	20.59	23	PASS
Band48	15MHz	64QAM	55990	75RB#0	17.94	19.90	23	PASS
Band48	15MHz	64QAM	56665	1RB#0	18.55	20.51	23	PASS
Band48	15MHz	64QAM	56665	1RB#38	18.63	20.59	23	PASS
Band48	15MHz	64QAM	56665	1RB#74	18.54	20.50	23	PASS
Band48	15MHz	64QAM	56665	75RB#0	17.94	19.90	23	PASS
Band48	15MHz	256QAM	55315	1RB#0	15.64	17.60	23	PASS
Band48	15MHz	256QAM	55315	1RB#38	15.71	17.67	23	PASS
Band48	15MHz	256QAM	55315	1RB#74	15.70	17.66	23	PASS
Band48	15MHz	256QAM	55315	75RB#0	15.82	17.78	23	PASS
Band48	15MHz	256QAM	55990	1RB#0	15.69	17.65	23	PASS
Band48	15MHz	256QAM	55990	1RB#38	15.80	17.76	23	PASS
Band48	15MHz	256QAM	55990	1RB#74	15.73	17.69	23	PASS
Band48	15MHz	256QAM	55990	75RB#0	15.79	17.75	23	PASS
Band48	15MHz	256QAM	56665	1RB#0	15.91	17.87	23	PASS
Band48	15MHz	256QAM	56665	1RB#38	15.92	17.88	23	PASS
Band48	15MHz	256QAM	56665	1RB#74	15.90	17.86	23	PASS
Band48	15MHz	256QAM	56665	75RB#0	15.99	17.95	23	PASS
Band48	20MHz	QPSK	55340	1RB#0	20.63	22.59	23	PASS
Band48	20MHz	QPSK	55340	1RB#49	20.90	22.86	23	PASS
Band48	20MHz	QPSK	55340	1RB#99	20.70	22.66	23	PASS
Band48	20MHz	QPSK	55340	100RB#0	19.95	21.91	23	PASS
Band48	20MHz	QPSK	55990	1RB#0	20.84	22.80	23	PASS
Band48	20MHz	QPSK	55990	1RB#49	20.88	22.84	23	PASS
Band48	20MHz	QPSK	55990	1RB#99	20.86	22.82	23	PASS
Band48	20MHz	QPSK	55990	100RB#0	19.95	21.91	23	PASS
Band48	20MHz	QPSK	56640	1RB#0	20.73	22.69	23	PASS
Band48	20MHz	QPSK	56640	1RB#49	20.85	22.81	23	PASS
Band48	20MHz	QPSK	56640	1RB#99	20.71	22.67	23	PASS
Band48	20MHz	QPSK	56640	100RB#0	19.97	21.93	23	PASS
Band48	20MHz	16QAM	55340	1RB#0	19.88	21.84	23	PASS
Band48	20MHz	16QAM	55340	1RB#49	19.82	21.78	23	PASS
Band48	20MHz	16QAM	55340	1RB#99	19.88	21.84	23	PASS



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Band48	20MHz	16QAM	55340	100RB#0	18.94	20.90	23	PASS
Band48	20MHz	16QAM	55990	1RB#0	20.14	22.10	23	PASS
Band48	20MHz	16QAM	55990	1RB#49	20.11	22.07	23	PASS
Band48	20MHz	16QAM	55990	1RB#99	20.04	22.00	23	PASS
Band48	20MHz	16QAM	55990	100RB#0	19.82	21.78	23	PASS
Band48	20MHz	16QAM	56640	1RB#0	19.97	21.93	23	PASS
Band48	20MHz	16QAM	56640	1RB#49	19.94	21.90	23	PASS
Band48	20MHz	16QAM	56640	1RB#99	19.95	21.91	23	PASS
Band48	20MHz	16QAM	56640	100RB#0	18.99	20.95	23	PASS
Band48	20MHz	64QAM	55340	1RB#0	18.46	20.42	23	PASS
Band48	20MHz	64QAM	55340	1RB#49	18.67	20.63	23	PASS
Band48	20MHz	64QAM	55340	1RB#99	18.54	20.50	23	PASS
Band48	20MHz	64QAM	55340	100RB#0	17.92	19.88	23	PASS
Band48	20MHz	64QAM	55990	1RB#0	18.54	20.50	23	PASS
Band48	20MHz	64QAM	55990	1RB#49	18.66	20.62	23	PASS
Band48	20MHz	64QAM	55990	1RB#99	18.59	20.55	23	PASS
Band48	20MHz	64QAM	55990	100RB#0	17.93	19.89	23	PASS
Band48	20MHz	64QAM	56640	1RB#0	18.52	20.48	23	PASS
Band48	20MHz	64QAM	56640	1RB#49	18.64	20.60	23	PASS
Band48	20MHz	64QAM	56640	1RB#99	18.50	20.46	23	PASS
Band48	20MHz	64QAM	56640	100RB#0	17.94	19.90	23	PASS
Band48	20MHz	256QAM	55340	1RB#0	15.60	17.56	23	PASS
Band48	20MHz	256QAM	55340	1RB#49	15.57	17.53	23	PASS
Band48	20MHz	256QAM	55340	1RB#99	15.57	17.53	23	PASS
Band48	20MHz	256QAM	55340	100RB#0	15.87	17.83	23	PASS
Band48	20MHz	256QAM	55990	1RB#0	15.65	17.61	23	PASS
Band48	20MHz	256QAM	55990	1RB#49	15.63	17.59	23	PASS
Band48	20MHz	256QAM	55990	1RB#99	15.64	17.60	23	PASS
Band48	20MHz	256QAM	55990	100RB#0	15.74	17.70	23	PASS
Band48	20MHz	256QAM	56640	1RB#0	15.75	17.71	23	PASS
Band48	20MHz	256QAM	56640	1RB#49	15.76	17.72	23	PASS
Band48	20MHz	256QAM	56640	1RB#99	15.78	17.74	23	PASS
Band48	20MHz	256QAM	56640	100RB#0	15.98	17.94	23	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	7.71	13	PASS
Band48	20MHz	QPSK	55990	100RB#0	7.71	13	PASS
Band48	20MHz	QPSK	56640	100RB#0	7.51	13	PASS
Band48	20MHz	16QAM	55340	100RB#0	8.17	13	PASS
Band48	20MHz	16QAM	55990	100RB#0	8.20	13	PASS
Band48	20MHz	16QAM	56640	100RB#0	8.23	13	PASS
Band48	20MHz	64QAM	55340	100RB#0	8.29	13	PASS
Band48	20MHz	64QAM	55990	100RB#0	8.38	13	PASS
Band48	20MHz	64QAM	56640	100RB#0	8.38	13	PASS
Band48	20MHz	256QAM	55340	100RB#0	8.58	13	PASS
Band48	20MHz	256QAM	55990	100RB#0	8.64	13	PASS
Band48	20MHz	256QAM	56640	100RB#0	8.55	13	PASS



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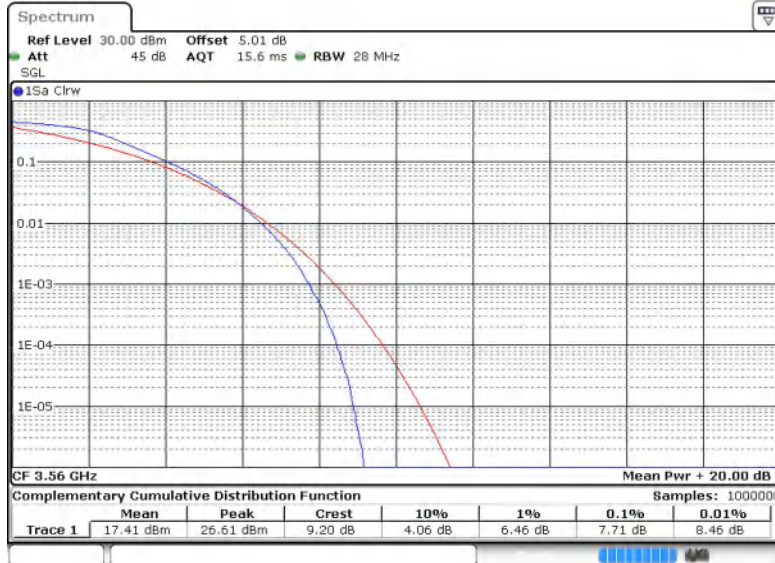
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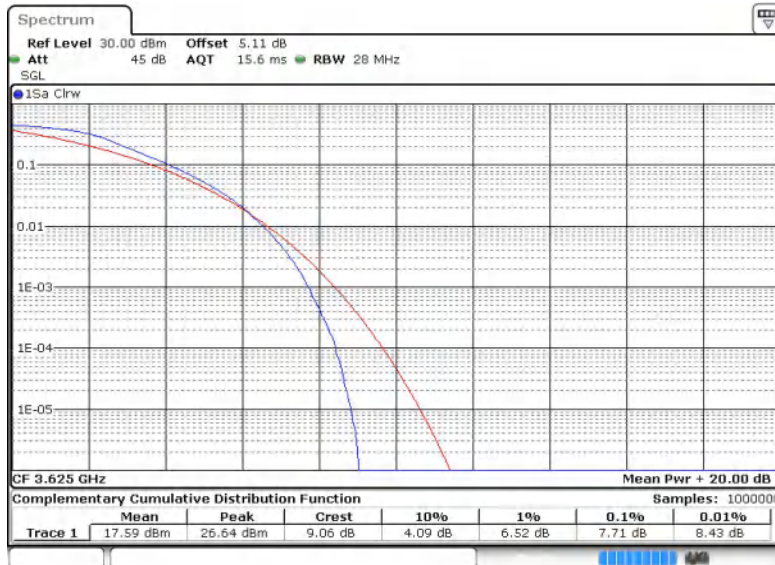
Test Graphs

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



Date: 8 NOV 2023 10:33:27

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



Date: 8 NOV 2023 10:34:20



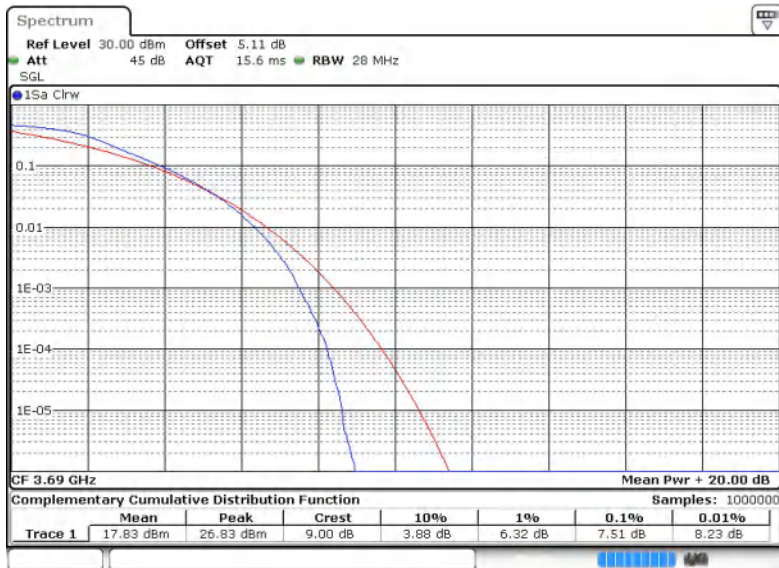
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Band48-20MHz-QPSK-56640-100RB#0



Date: 8 NOV 2023 10:35:31

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



Date: 8 NOV 2023 10:33:57

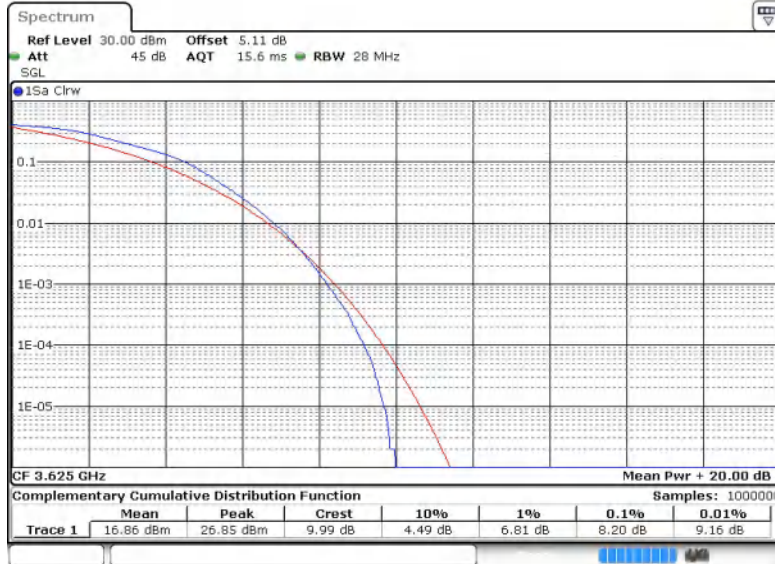


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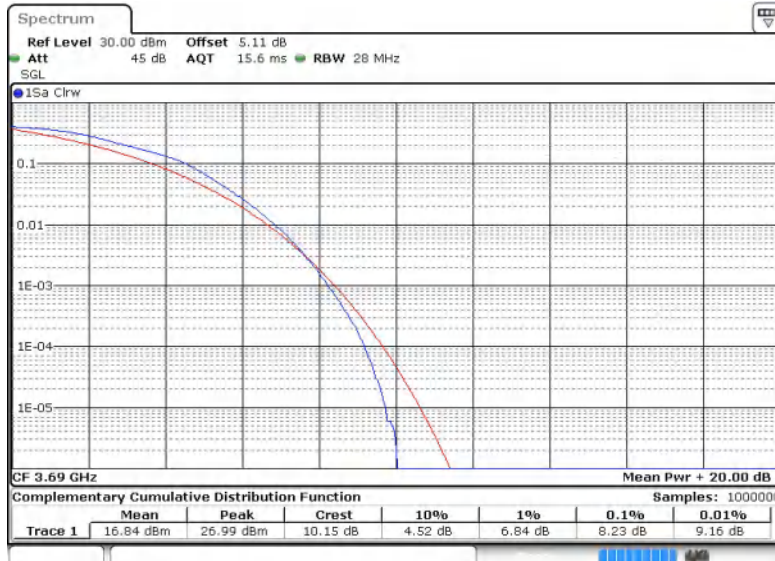
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Band48-20MHz-16QAM-55990-100RB#0



Date: 8 NOV 2023 10:35:07

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



Date: 8 NOV 2023 10:36:07



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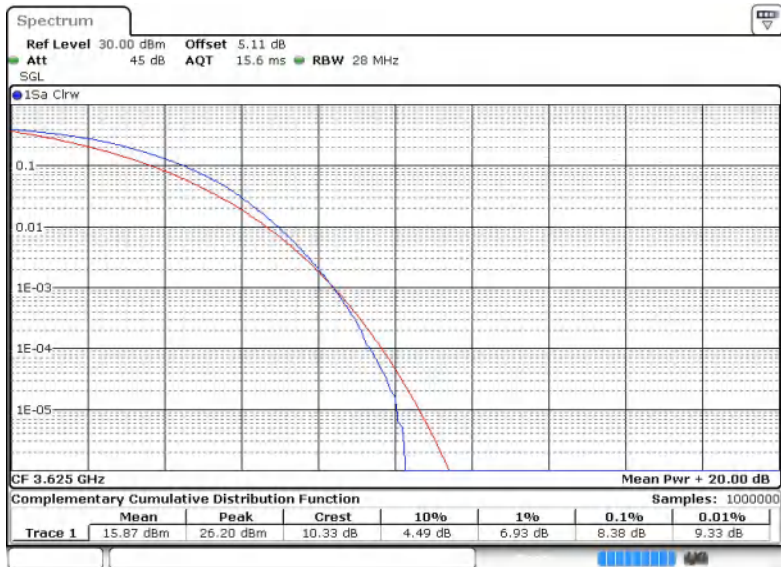
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Band48-20MHz-64QAM-55340-100RB#0



Date: 8 NOV 2023 10:48:52

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



Date: 8 NOV 2023 10:49:44

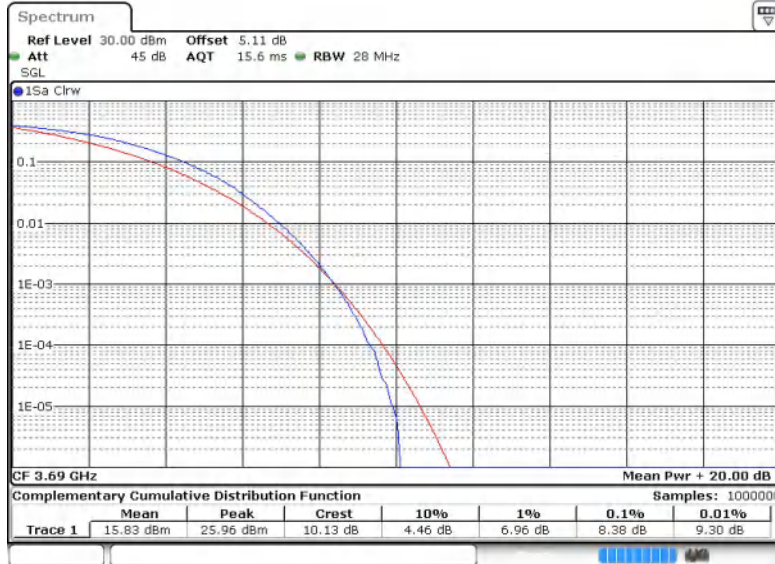


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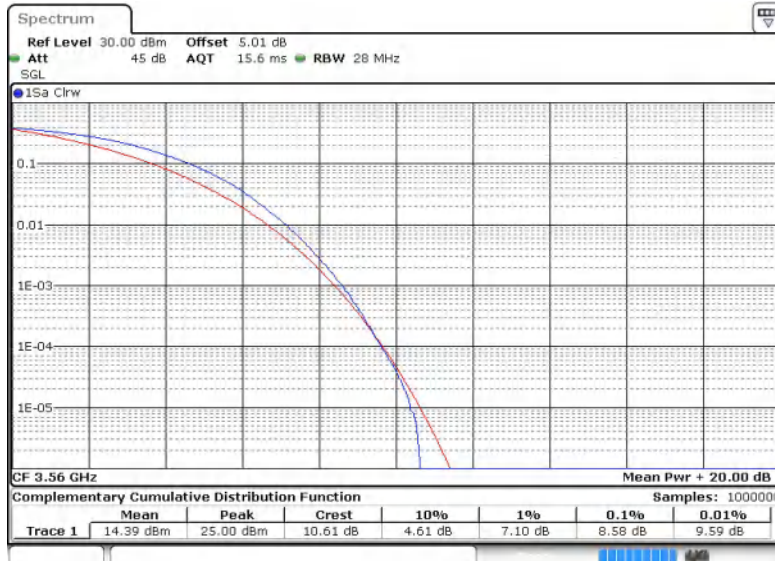
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Band48-20MHz-64QAM-56640-100RB#0



Date: 8 NOV 2023 10:50:13

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



Date: 8 NOV 2023 10:55:17

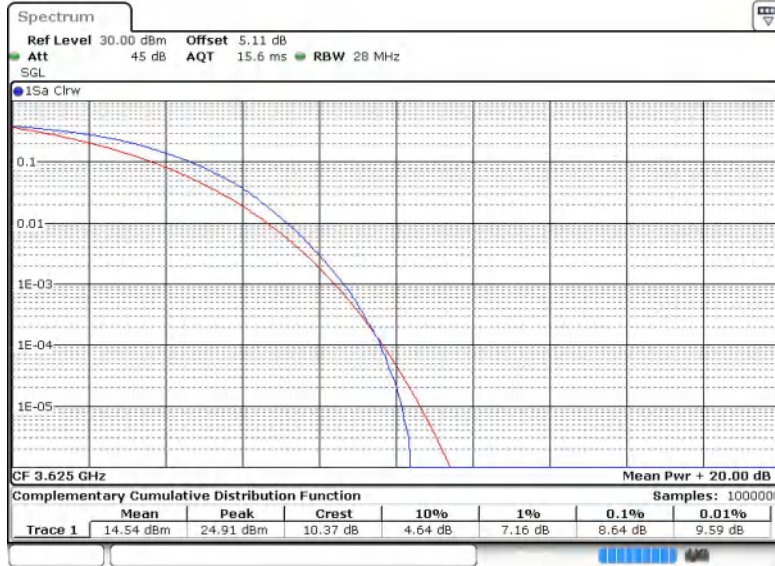


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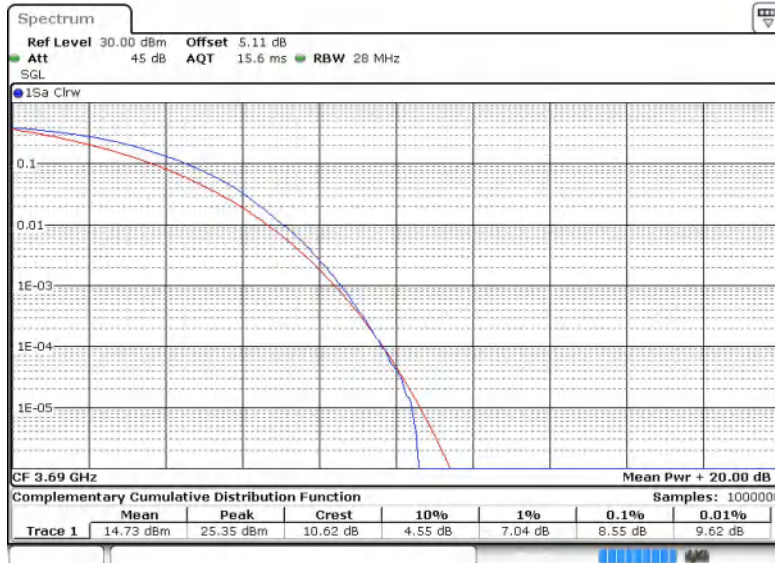
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Band48-20MHz-256QAM-55990-100RB#0



Date: 8 NOV 2023 10:55:57

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



Date: 8 NOV 2023 10:56:43



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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	4.496	5.09	PASS
Band48	5MHz	QPSK	55990	25RB#0	4.496	5.22	PASS
Band48	5MHz	QPSK	56715	25RB#0	4.496	5.18	PASS
Band48	5MHz	16QAM	55265	25RB#0	4.496	5.04	PASS
Band48	5MHz	16QAM	55990	25RB#0	4.496	5.06	PASS
Band48	5MHz	16QAM	56715	25RB#0	4.496	5.05	PASS
Band48	5MHz	64QAM	55265	25RB#0	4.505	4.96	PASS
Band48	5MHz	64QAM	55990	25RB#0	4.496	4.96	PASS
Band48	5MHz	64QAM	56715	25RB#0	4.505	4.96	PASS
Band48	5MHz	256QAM	55265	25RB#0	4.496	4.95	PASS
Band48	5MHz	256QAM	55990	25RB#0	4.496	5.07	PASS
Band48	5MHz	256QAM	56715	25RB#0	4.505	4.95	PASS
Band48	10MHz	QPSK	55290	50RB#0	8.952	10.03	PASS
Band48	10MHz	QPSK	55990	50RB#0	8.952	9.80	PASS
Band48	10MHz	QPSK	56690	50RB#0	8.952	9.87	PASS
Band48	10MHz	16QAM	55290	50RB#0	8.918	9.90	PASS
Band48	10MHz	16QAM	55990	50RB#0	8.918	9.77	PASS
Band48	10MHz	16QAM	56690	50RB#0	8.918	9.70	PASS
Band48	10MHz	64QAM	55290	50RB#0	8.952	9.90	PASS
Band48	10MHz	64QAM	55990	50RB#0	8.952	9.80	PASS
Band48	10MHz	64QAM	56690	50RB#0	8.952	10.00	PASS
Band48	10MHz	256QAM	55290	50RB#0	8.918	9.80	PASS
Band48	10MHz	256QAM	55990	50RB#0	8.918	9.67	PASS
Band48	10MHz	256QAM	56690	50RB#0	8.918	9.73	PASS
Band48	15MHz	QPSK	55315	75RB#0	13.577	18.10	PASS
Band48	15MHz	QPSK	55990	75RB#0	13.527	15.40	PASS
Band48	15MHz	QPSK	56665	75RB#0	13.478	15.25	PASS
Band48	15MHz	16QAM	55315	75RB#0	13.577	16.95	PASS
Band48	15MHz	16QAM	55990	75RB#0	13.527	15.90	PASS
Band48	15MHz	16QAM	56665	75RB#0	13.527	15.85	PASS



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Band48	15MHz	64QAM	55315	75RB#0	13.527	18.00	PASS
Band48	15MHz	64QAM	55990	75RB#0	13.478	15.95	PASS
Band48	15MHz	64QAM	56665	75RB#0	13.478	15.25	PASS
Band48	15MHz	256QAM	55315	75RB#0	13.527	17.20	PASS
Band48	15MHz	256QAM	55990	75RB#0	13.478	15.50	PASS
Band48	15MHz	256QAM	56665	75RB#0	13.478	15.25	PASS
Band48	20MHz	QPSK	55340	100RB#0	17.97	22.60	PASS
Band48	20MHz	QPSK	55990	100RB#0	17.903	20.87	PASS
Band48	20MHz	QPSK	56640	100RB#0	17.97	20.93	PASS
Band48	20MHz	16QAM	55340	100RB#0	17.903	20.07	PASS
Band48	20MHz	16QAM	55990	100RB#0	17.903	20.07	PASS
Band48	20MHz	16QAM	56640	100RB#0	17.97	19.73	PASS
Band48	20MHz	64QAM	55340	100RB#0	17.903	19.80	PASS
Band48	20MHz	64QAM	55990	100RB#0	17.903	19.73	PASS
Band48	20MHz	64QAM	56640	100RB#0	17.903	20.47	PASS
Band48	20MHz	256QAM	55340	100RB#0	17.837	19.67	PASS
Band48	20MHz	256QAM	55990	100RB#0	17.903	19.80	PASS
Band48	20MHz	256QAM	56640	100RB#0	17.903	19.73	PASS



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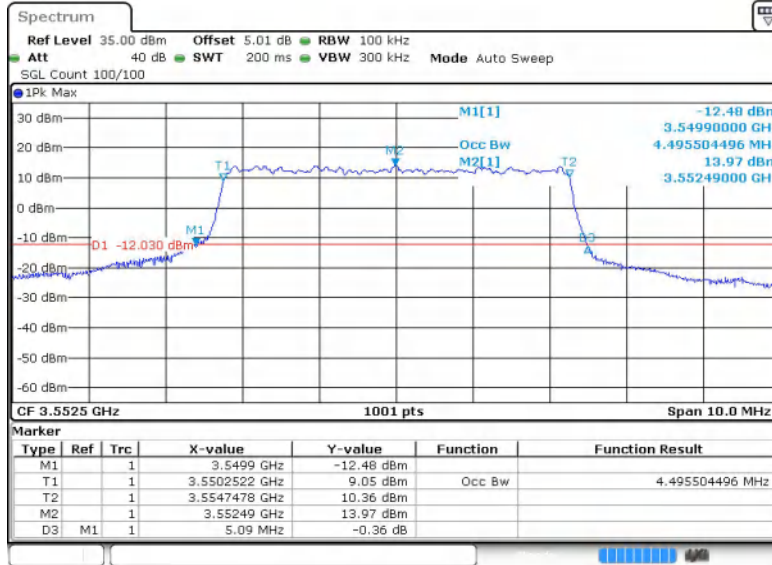
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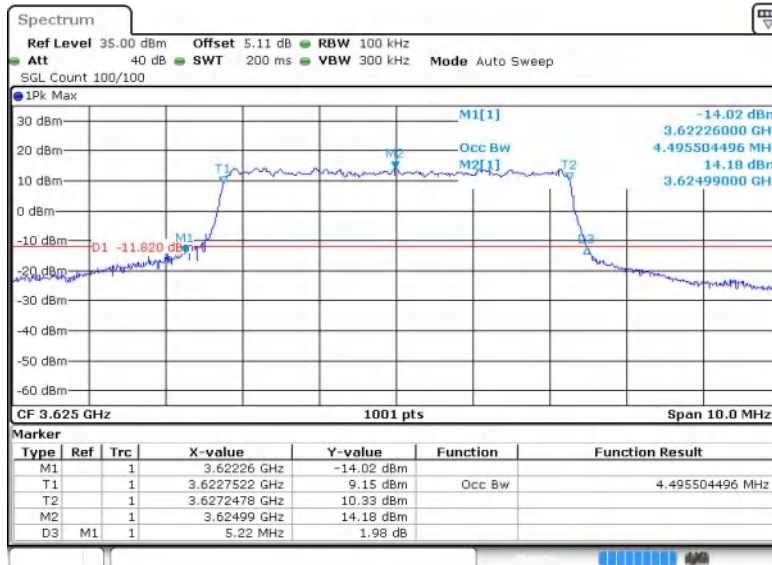
Test Graphs

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



Date: 7.NOV.2023 17:44:14

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



Date: 7.NOV.2023 17:45:21

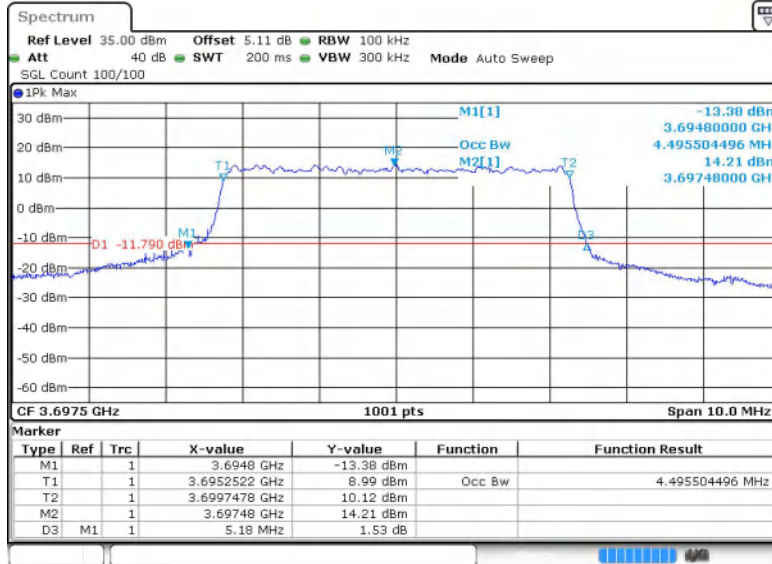


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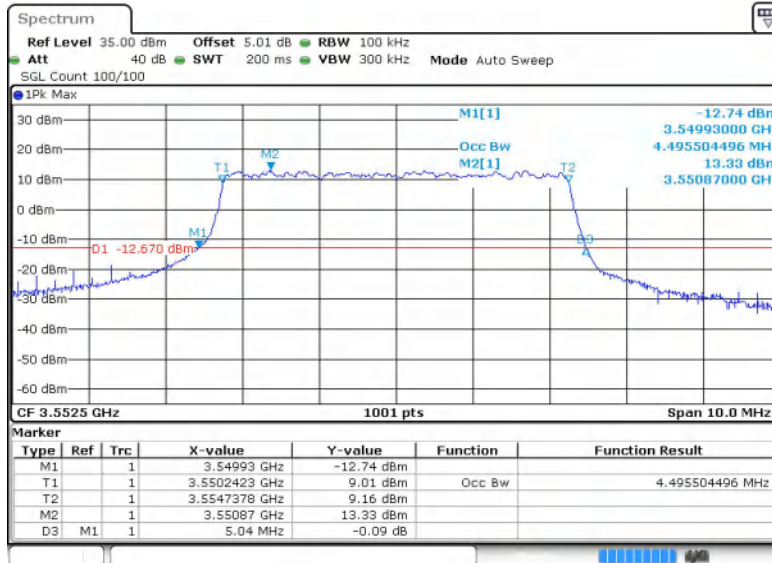
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Band48-5MHz-QPSK-56715-25RB#0



Date: 7.NOV.2023 17:46:28

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



Date: 7.NOV.2023 17:44:47

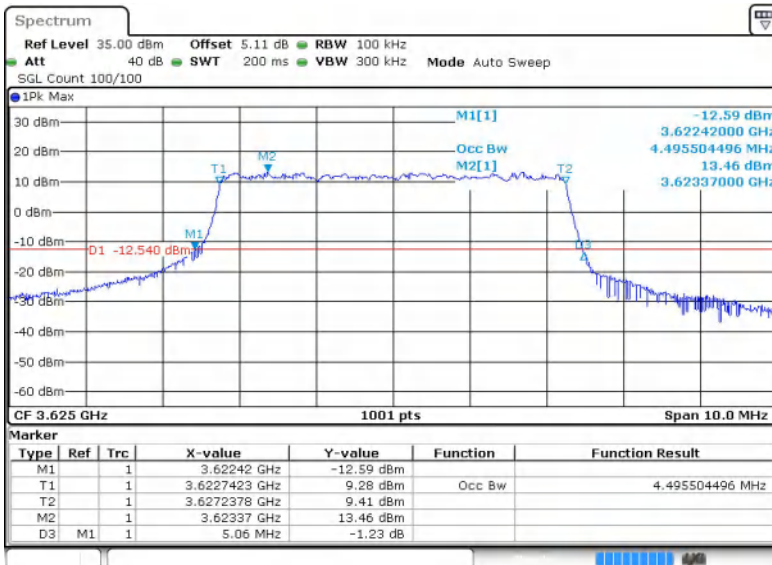


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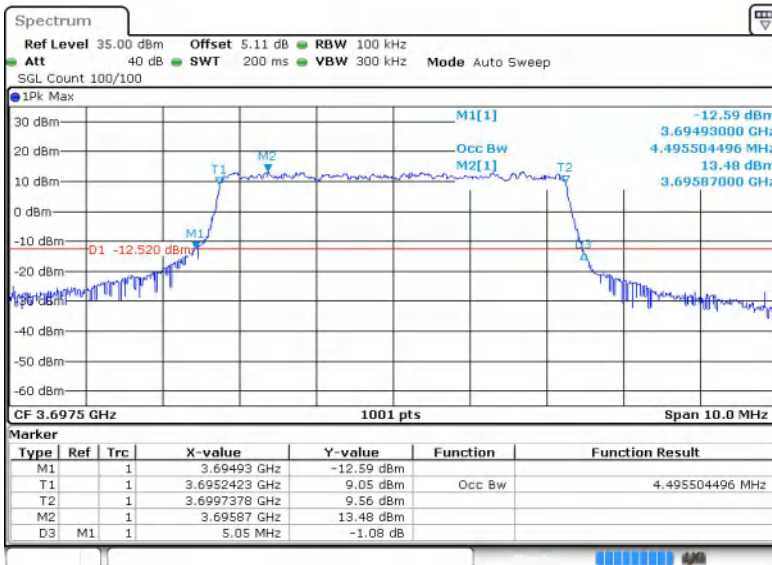
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Band48-5MHz-16QAM-55990-25RB#0



Date: 7.NOV.2023 17:45:54

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



Date: 7.NOV.2023 17:47:02



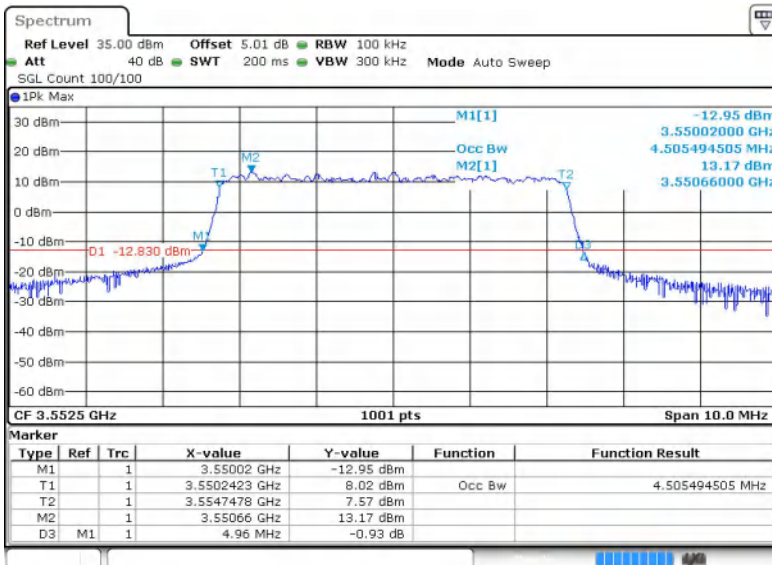
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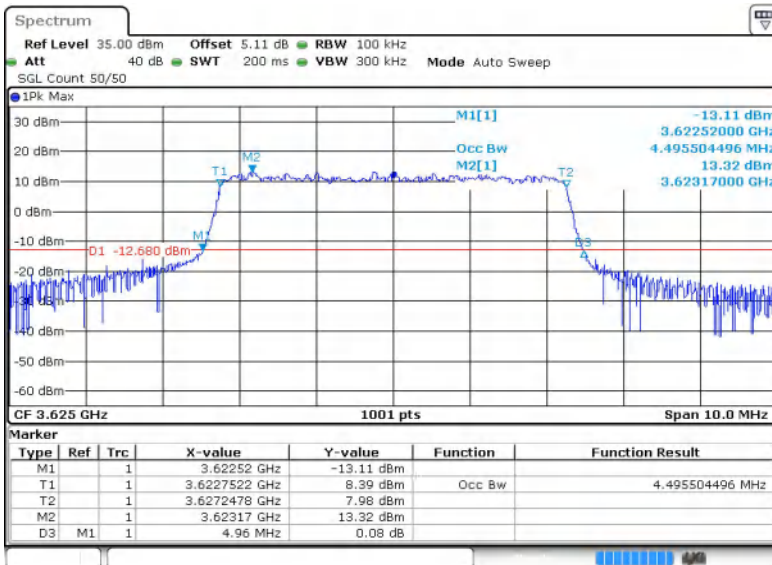


Band48-5MHz-64QAM-55265-25RB#0



Date: 8 NOV 2023 11:00:01

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



Date: 8 NOV 2023 11:01:49



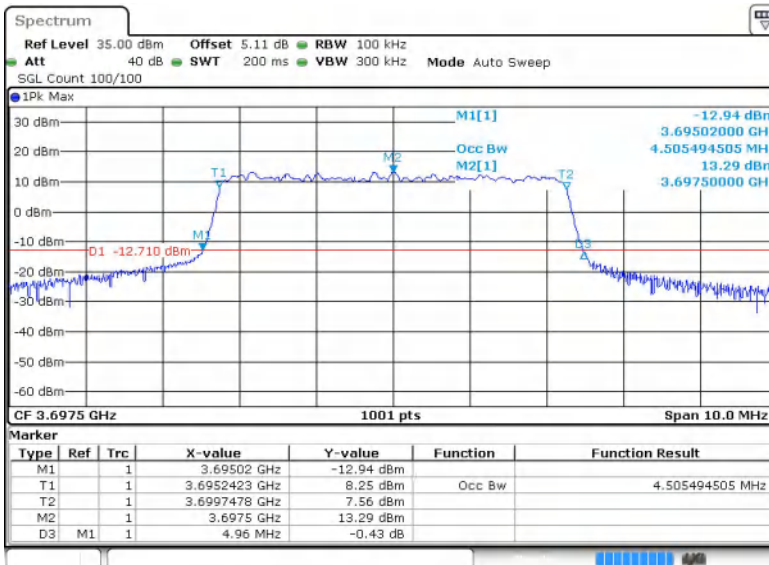
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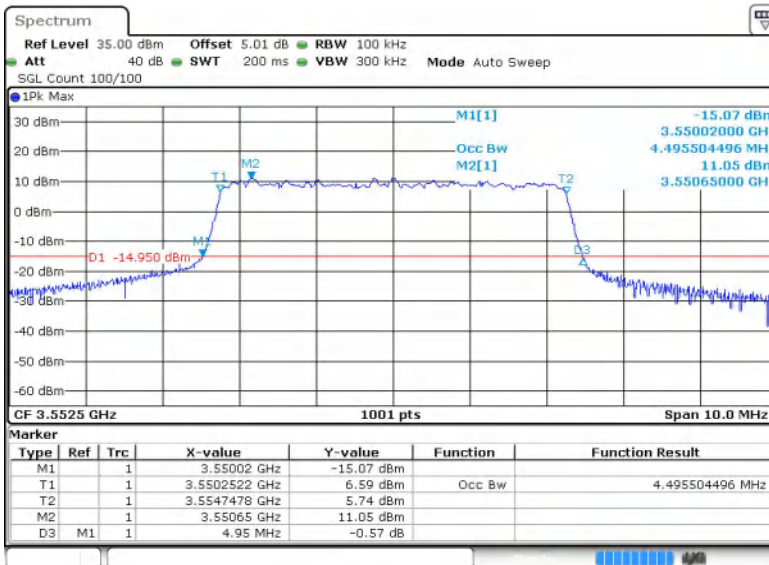


Band48-5MHz-64QAM-56715-25RB#0



Date: 8 NOV 2023 10:39:36

Band48-5MHz-256QAM-55265-25RB#0



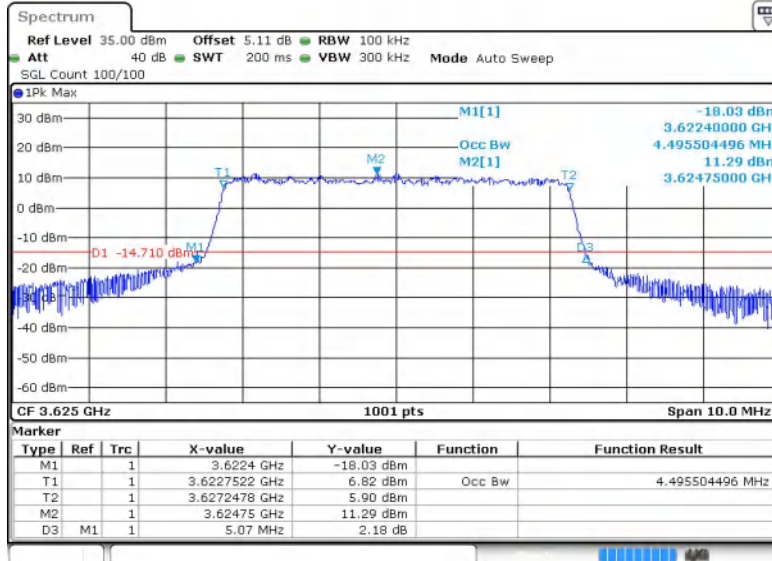
Date: 8 NOV 2023 11:09:56



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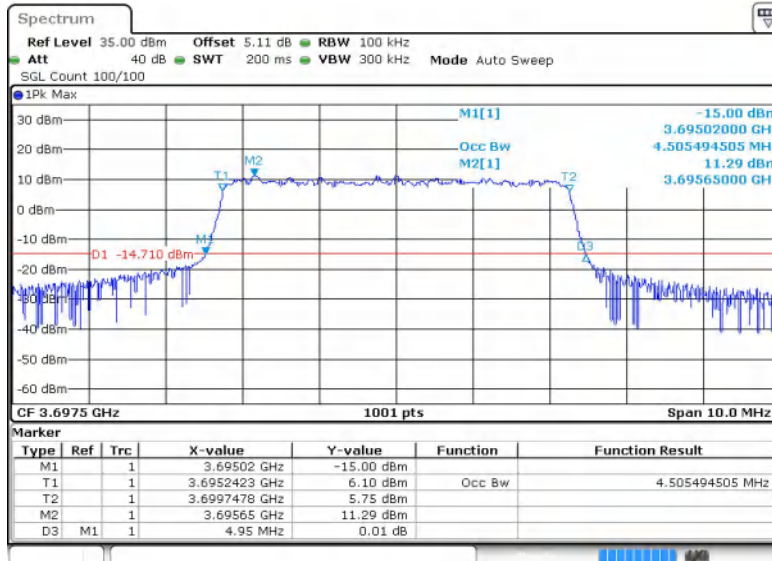
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Band48-5MHz-256QAM-55990-25RB#0



Date: 8 NOV. 2023 11:10:22

Band48-5MHz-256QAM-56715-25RB#0



Date: 8 NOV. 2023 11:10:47

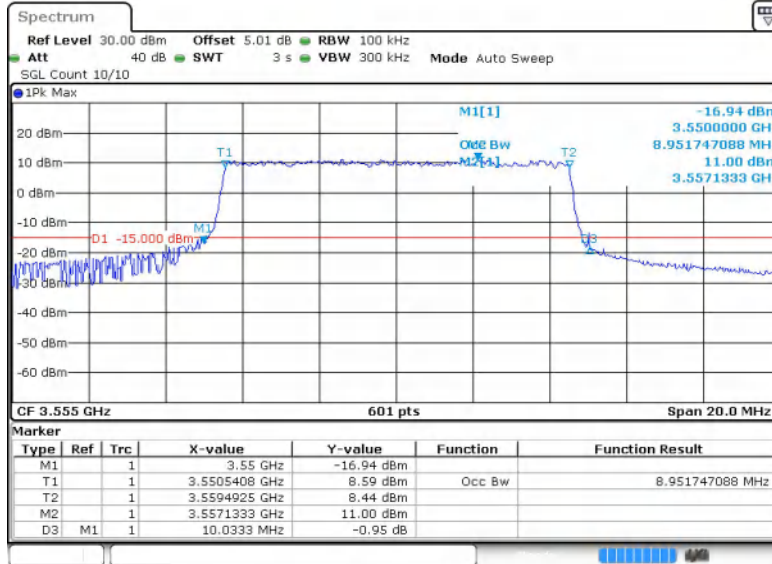


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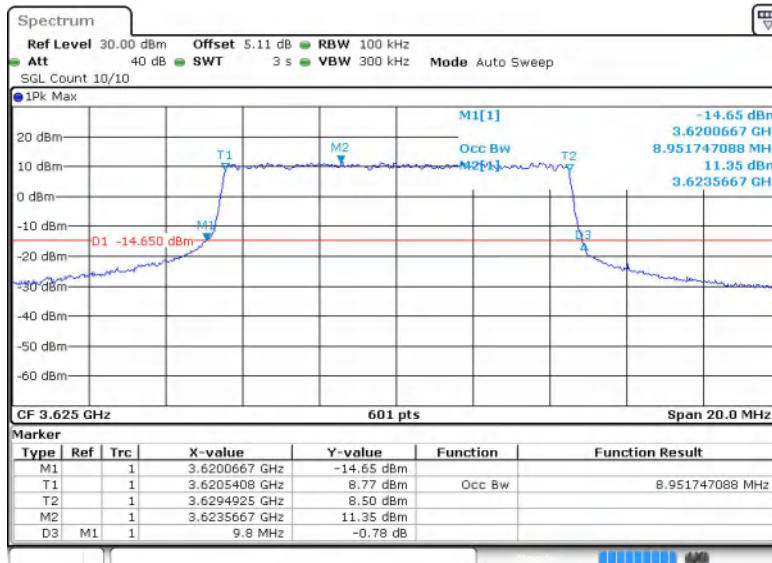
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Band48-10MHz-QPSK-55290-50RB#0



Date: 15.NOV.2023 18:35:09

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



Date: 16.NOV.2023 09:04:52



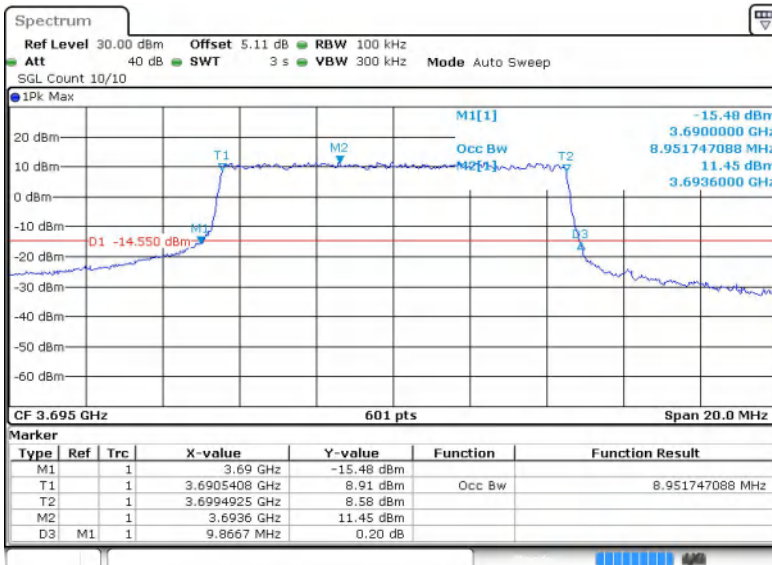
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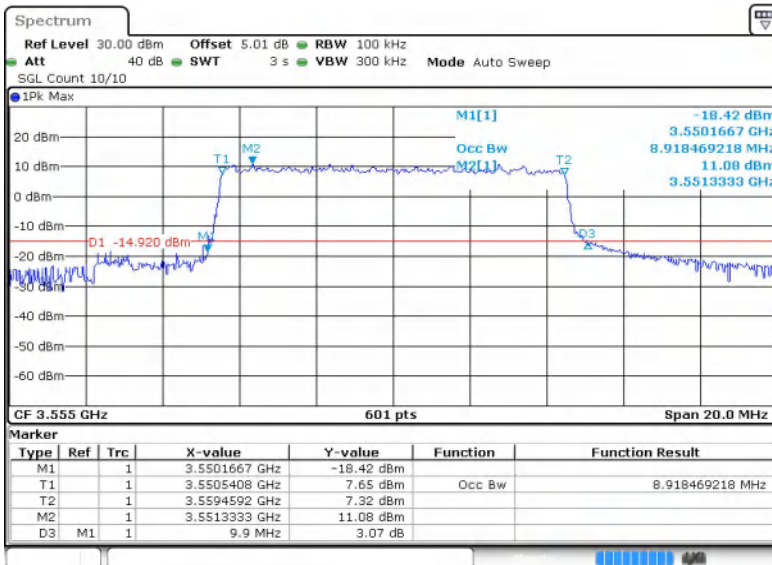


Band48-10MHz-QPSK-56690-50RB#0



Date: 16.NOV.2023 09:07:41

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



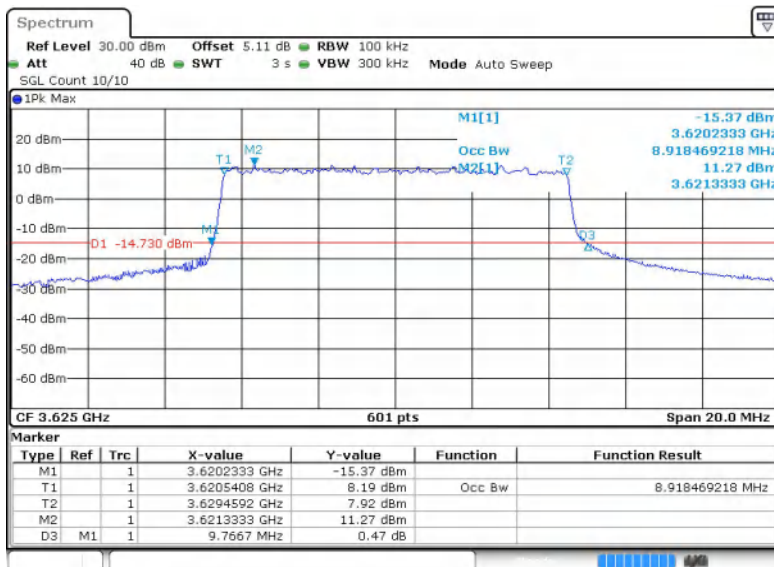
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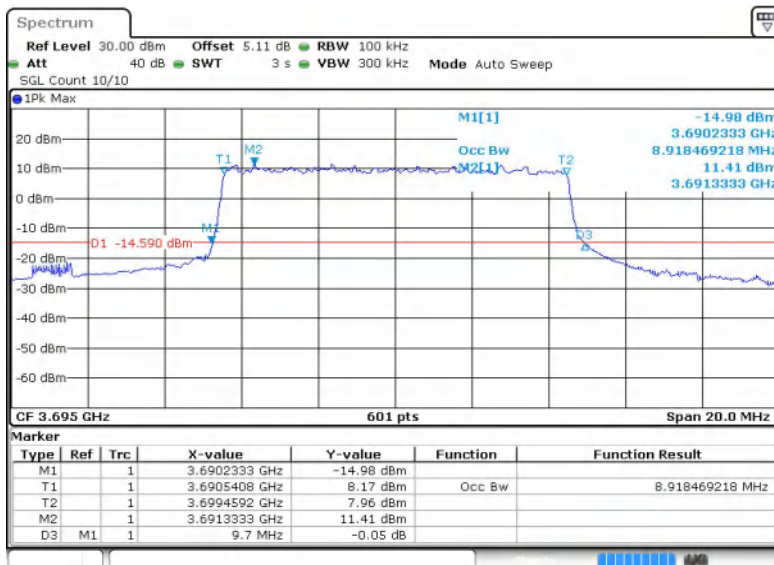
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Band48-10MHz-16QAM-55990-50RB#0



Date: 16.NOV.2023 09:06:20

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



Date: 16.NOV.2023 09:12:32



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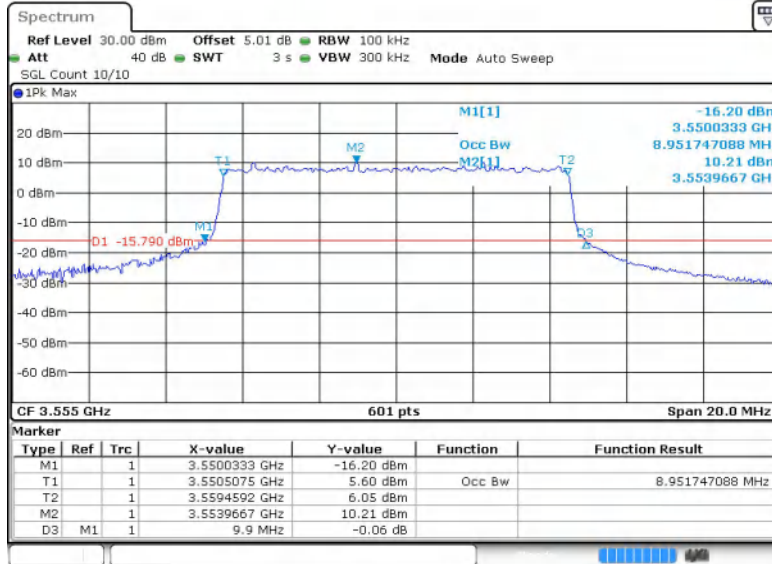
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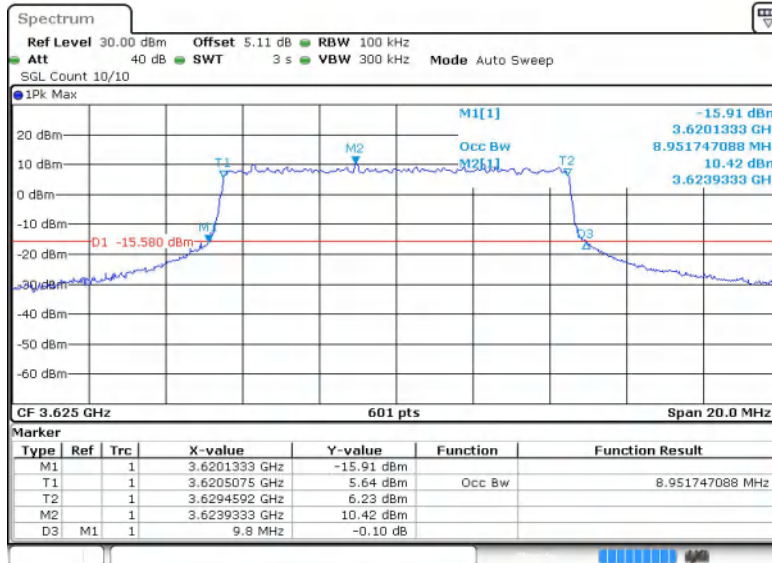


Band48-10MHz-64QAM-55290-50RB#0



Date: 16.NOV.2023 09:18:41

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



Date: 16.NOV.2023 09:19:24

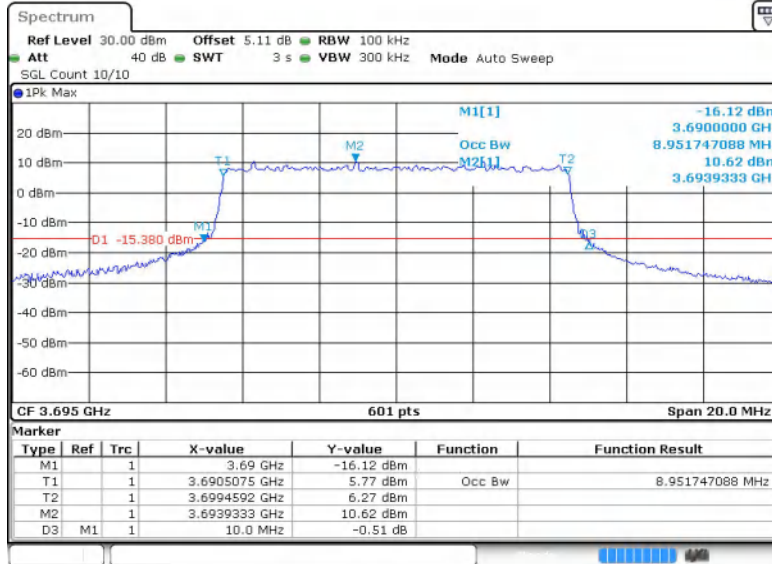


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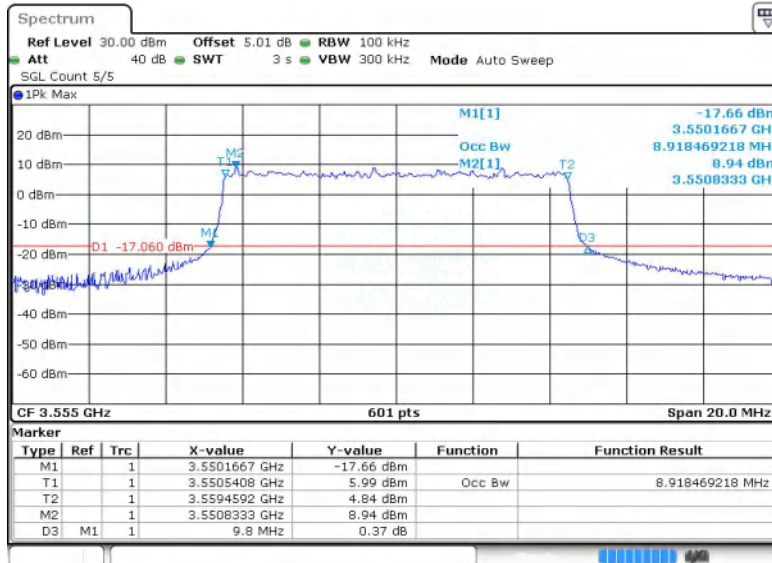
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Band48-10MHz-64QAM-56690-50RB#0



Date: 16.NOV.2023 09:20:08

Band48-10MHz-256QAM-55290-50RB#0



Date: 16.NOV.2023 12:09:16

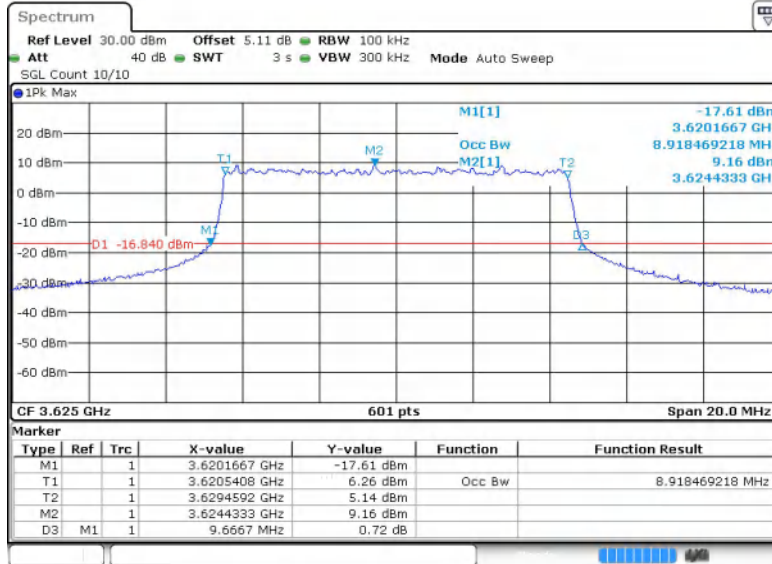


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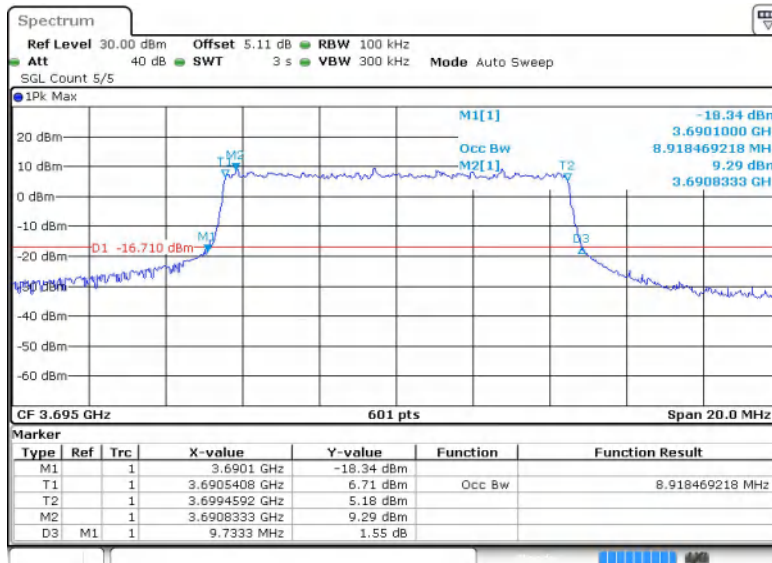
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Band48-10MHz-256QAM-55990-50RB#0



Date: 16.NOV.2023 12:09:50

Band48-10MHz-256QAM-56690-50RB#0



Date: 16.NOV.2023 12:10:34



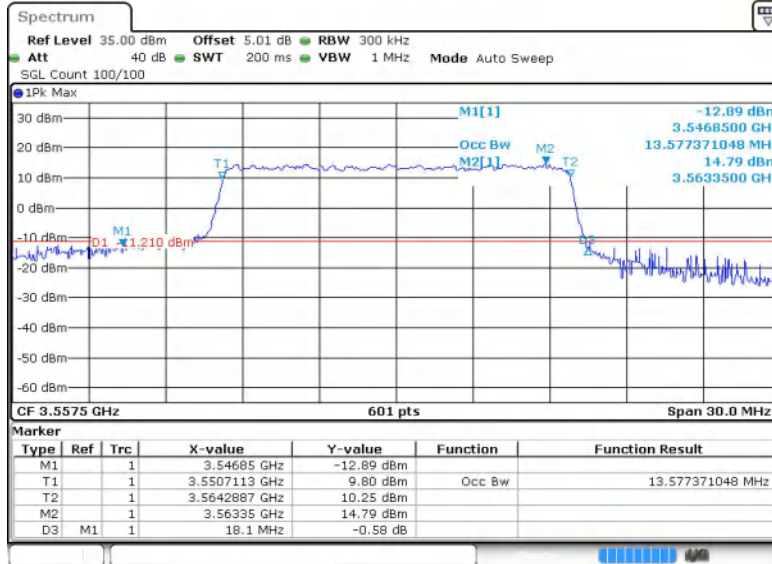
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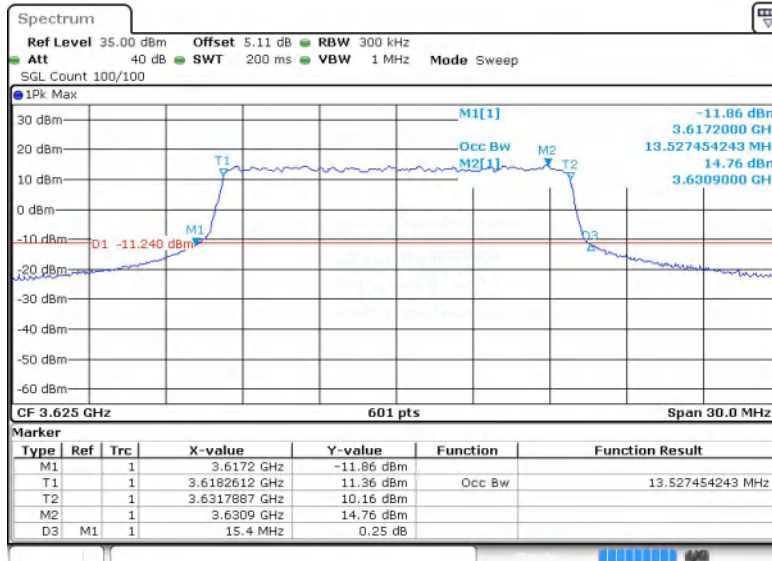


Band48-15MHz-QPSK-55315-75RB#0



Date: 8.NOV.2023 10:22:39

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



Date: 7.NOV.2023 18:08:23

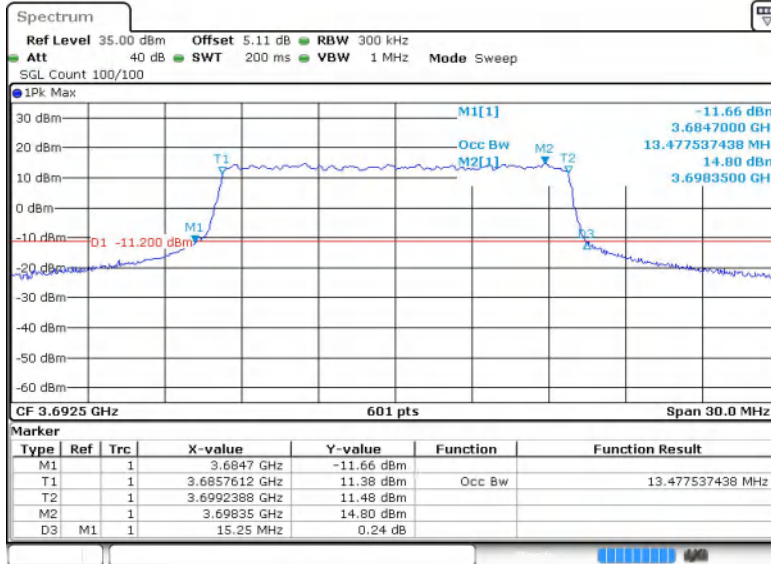


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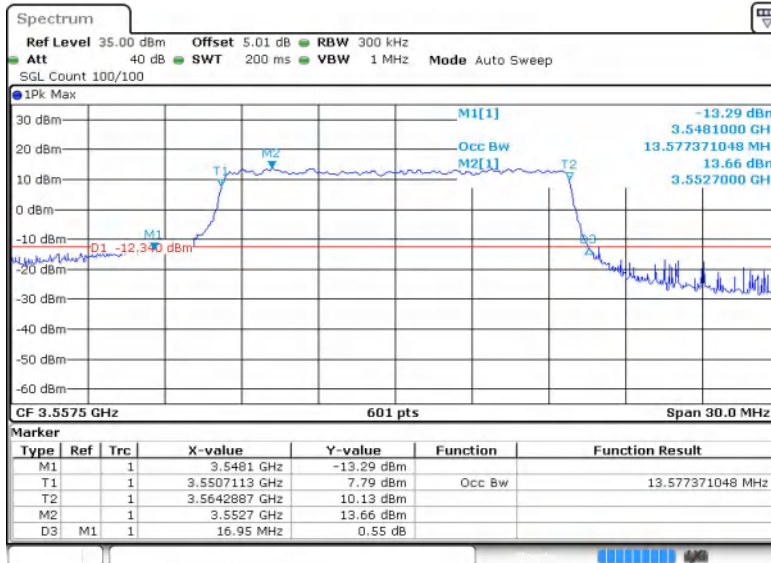
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Band48-15MHz-QPSK-56665-75RB#0



Date: 7 NOV 2023 18:09:30

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



Date: 8 NOV 2023 10:27:17



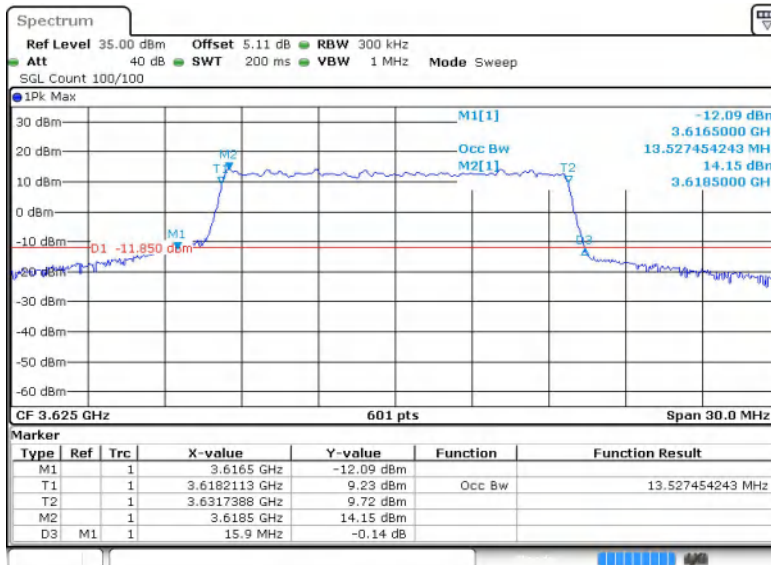
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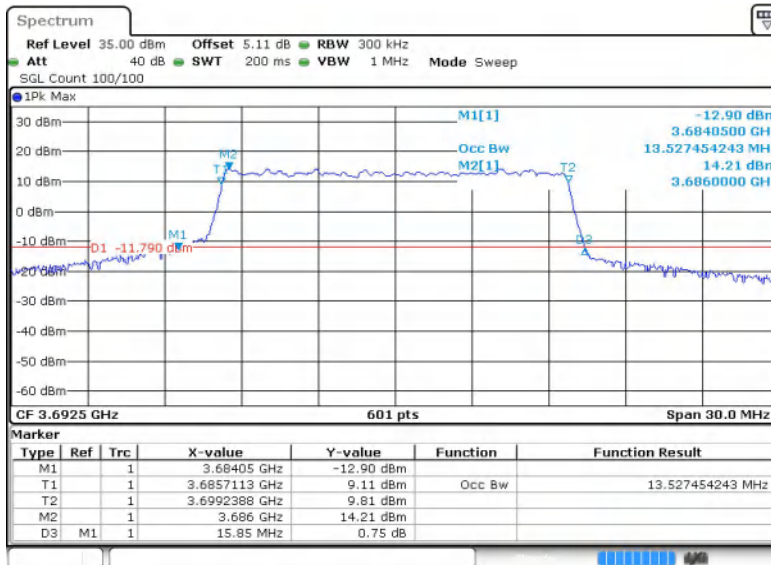


Band48-15MHz-16QAM-55990-75RB#0



Date: 7.NOV.2023 18:08:57

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



Date: 7.NOV.2023 18:10:03

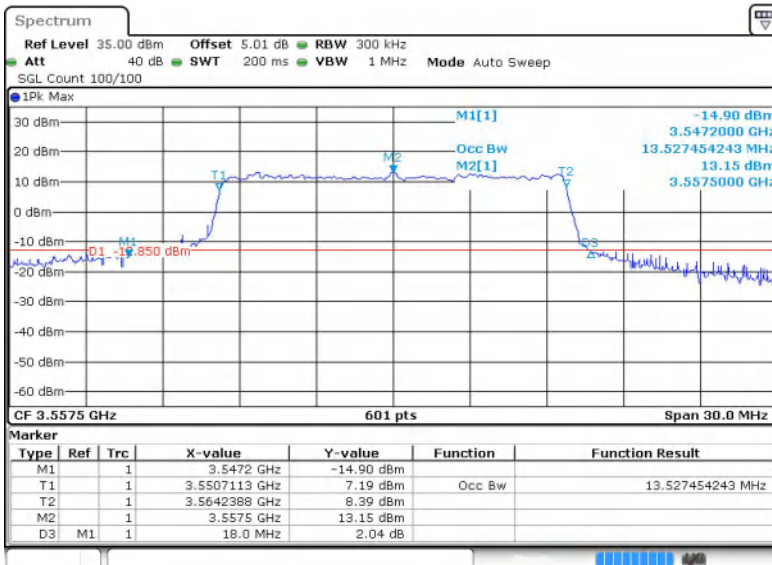


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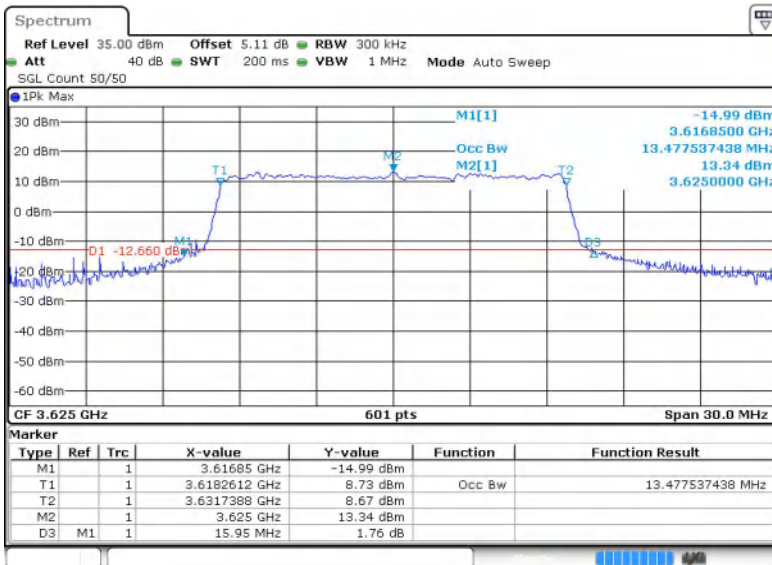
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Band48-15MHz-64QAM-55315-75RB#0



Date: 8 NOV 2023 11:04:25

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



Date: 8 NOV 2023 11:05:34



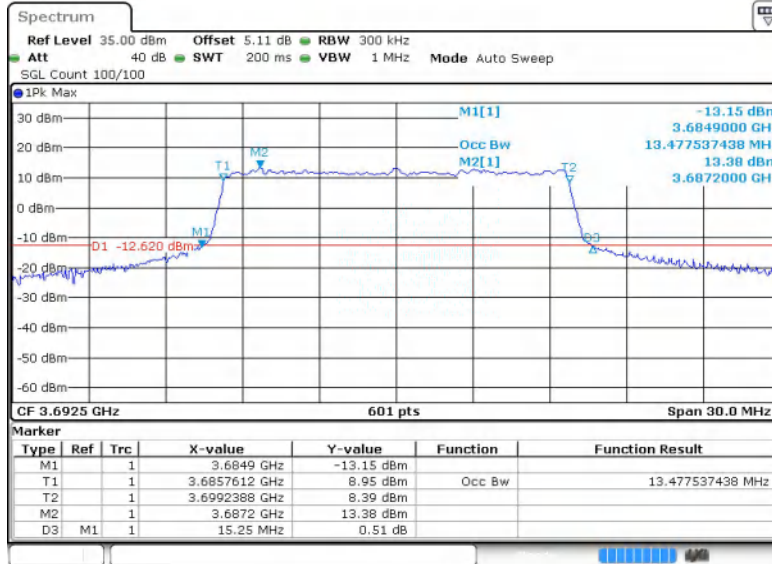
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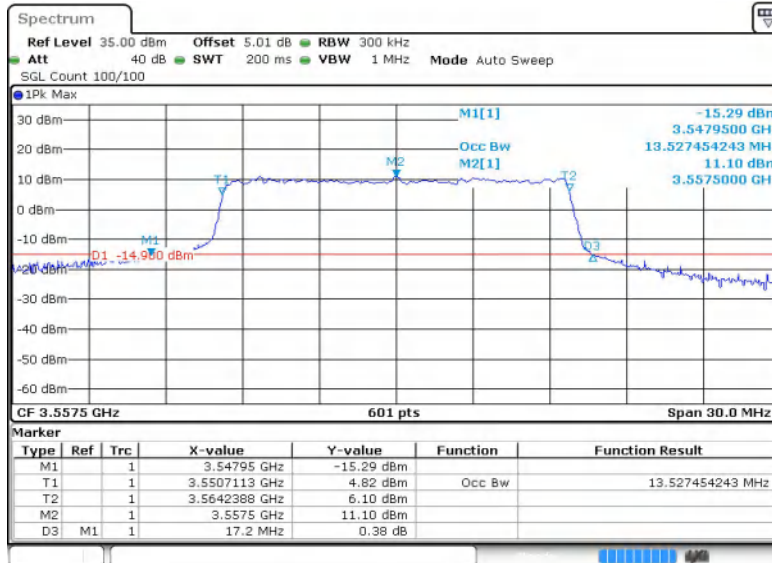


Band48-15MHz-64QAM-56665-75RB#0



Date: 8 NOV. 2023 11:06:08

Band48-15MHz-256QAM-55315-75RB#0



Date: 8 NOV. 2023 11:15:37



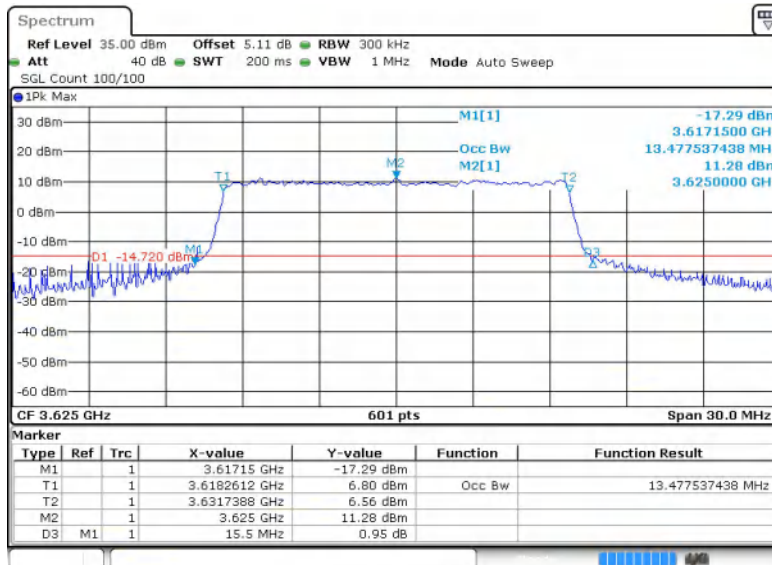
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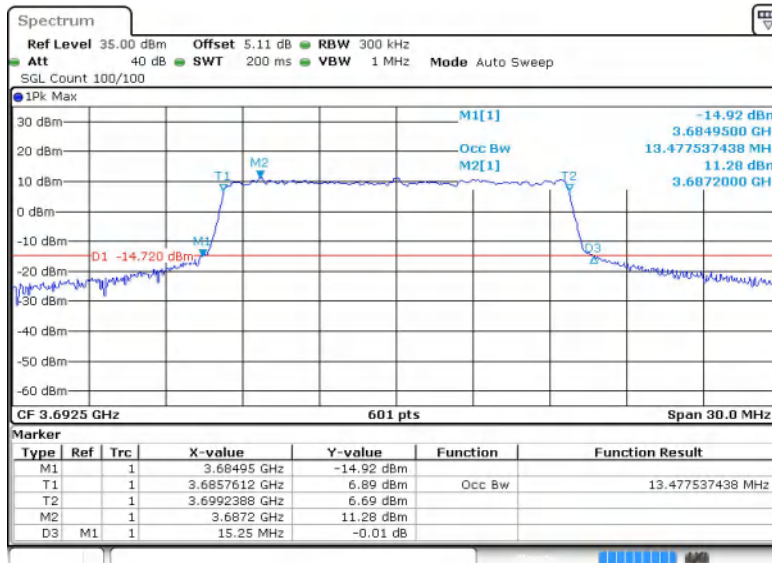


Band48-15MHz-256QAM-55990-75RB#0



Date: 8 NOV. 2023 11:16:04

Band48-15MHz-256QAM-56665-75RB#0



Date: 8 NOV. 2023 11:16:29



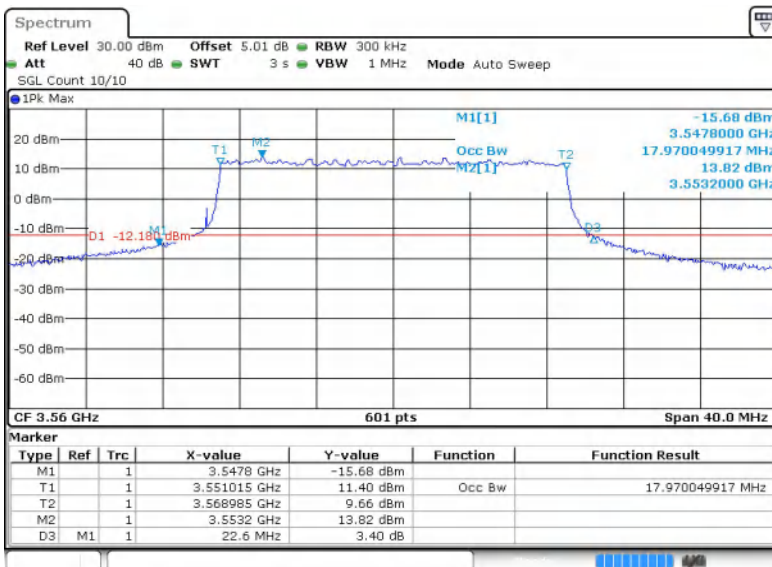
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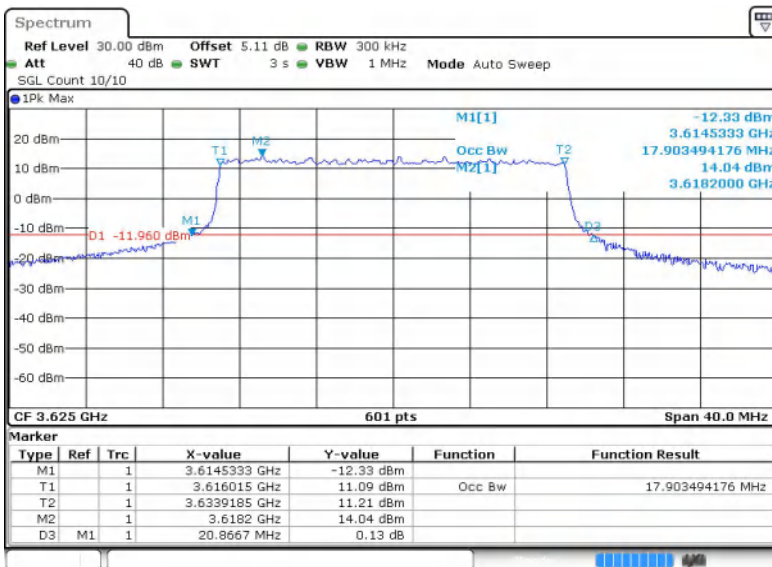


Band48-20MHz-QPSK-55340-100RB#0



Date: 15.NOV.2023 18:40:16

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



Date: 15.NOV.2023 18:41:49



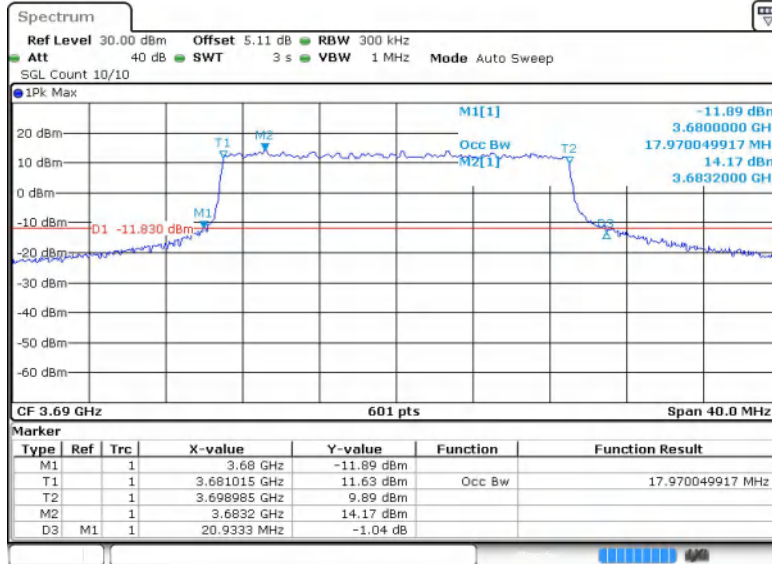
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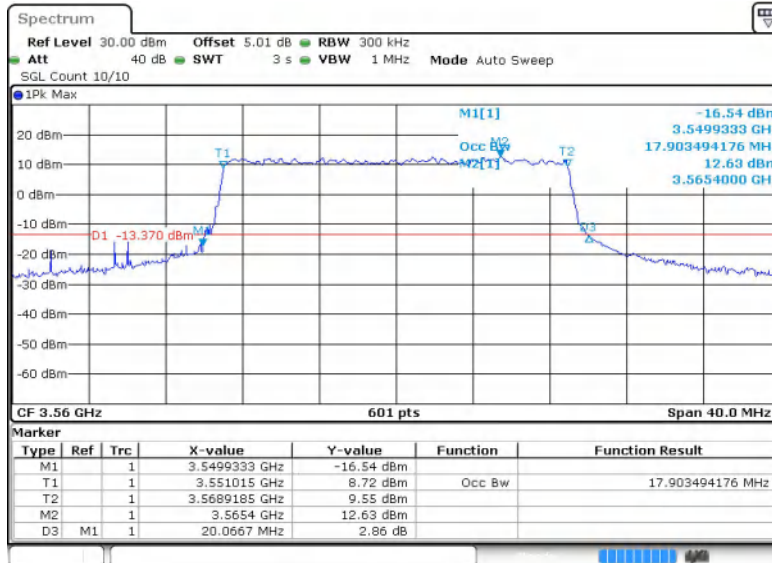


Band48-20MHz-QPSK-56640-100RB#0



Date: 15.NOV.2023 18:43:21

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



Date: 15.NOV.2023 18:41:00



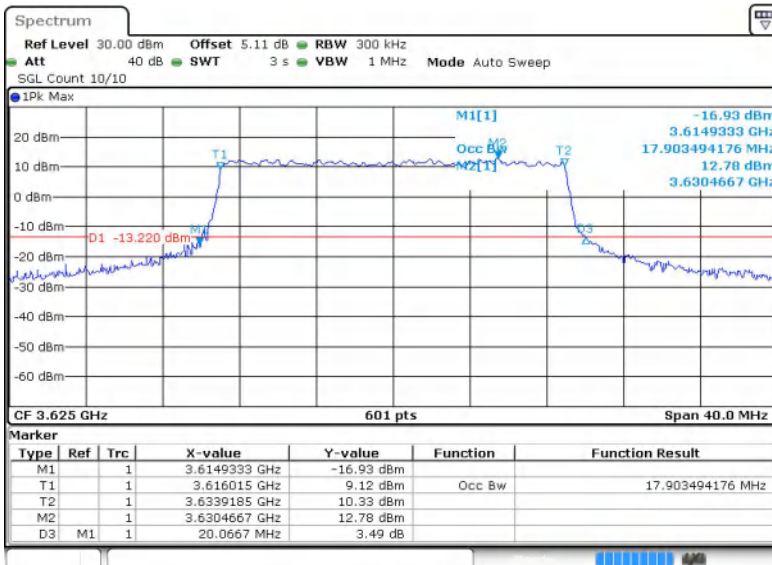
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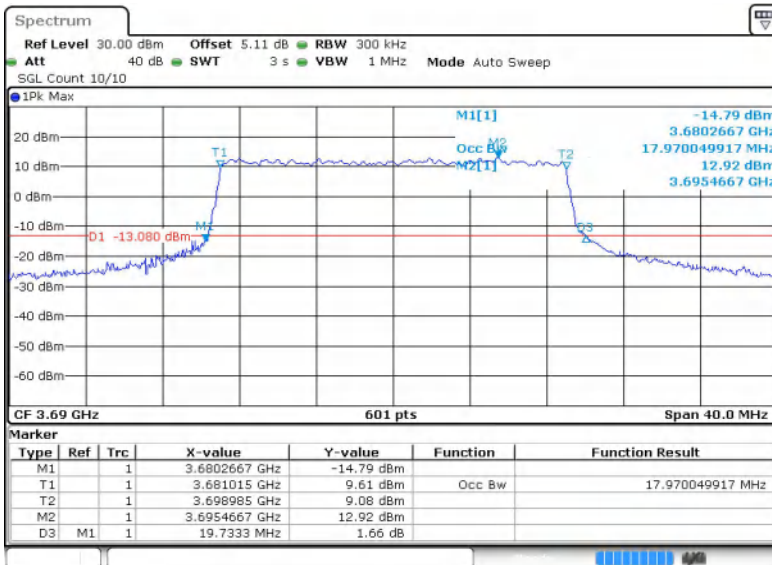


Band48-20MHz-16QAM-55990-100RB#0



Date: 15.NOV.2023 18:42:33

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



Date: 15.NOV.2023 18:44:05

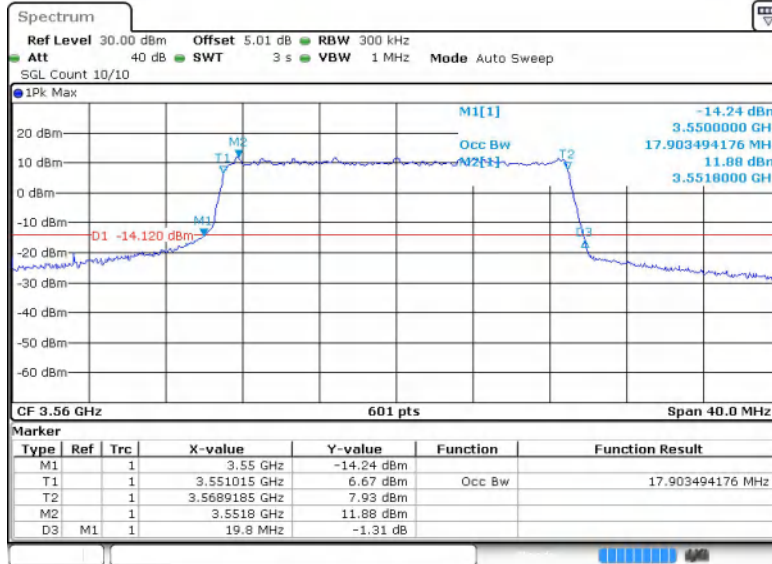


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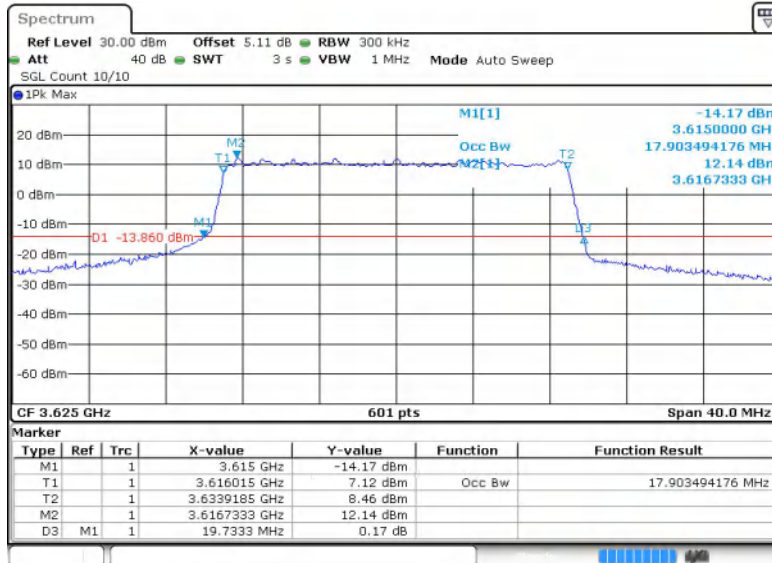


Band48-20MHz-64QAM-55340-100RB#0



Date: 16.NOV.2023 09:22:40

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



Date: 16.NOV.2023 09:23:24



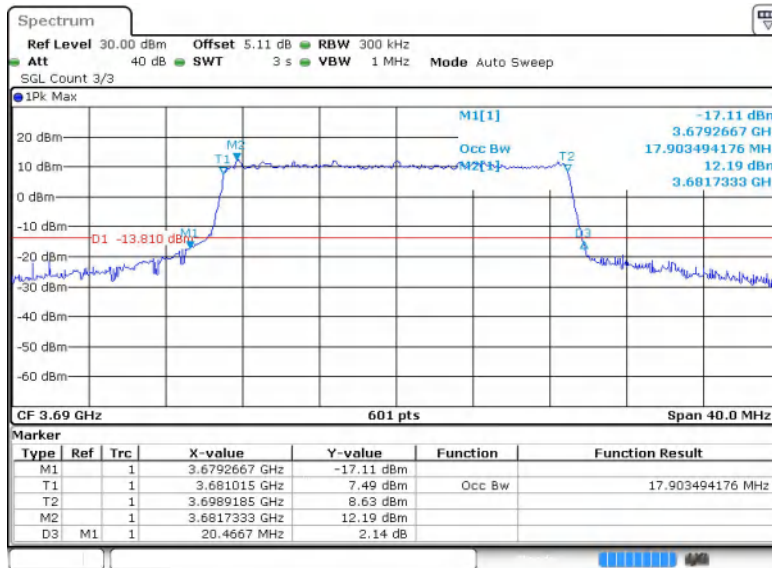
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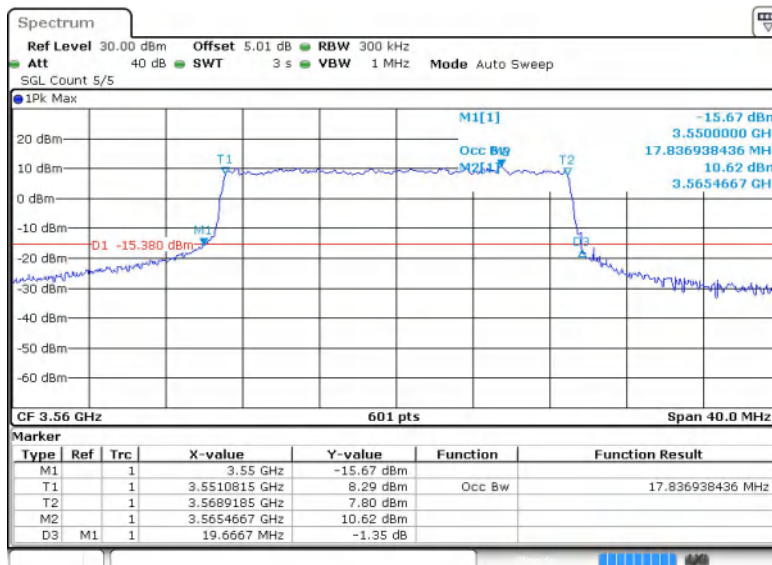


Band48-20MHz-64QAM-56640-100RB#0



Date: 16.NOV.2023 09:30:57

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



Date: 16.NOV.2023 12:11:14



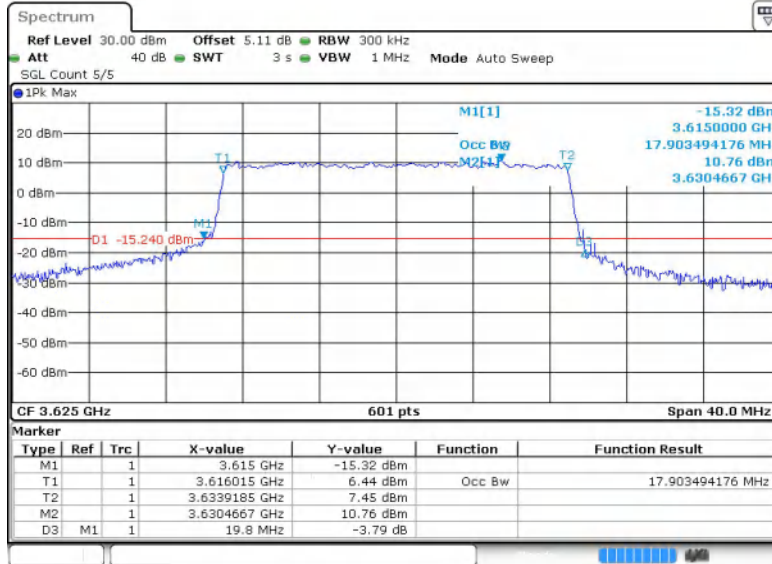
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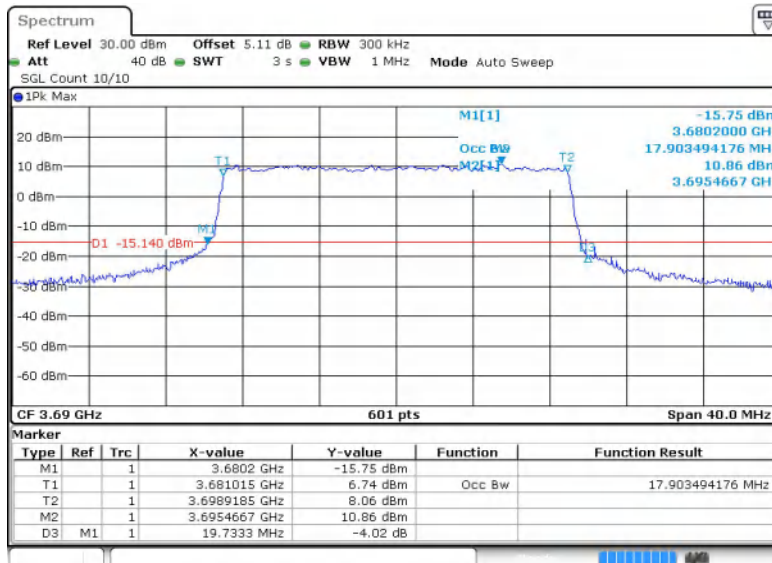


Band48-20MHz-256QAM-55990-100RB#0



Date: 16.NOV.2023 12:12:14

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



Date: 16.NOV.2023 12:12:50



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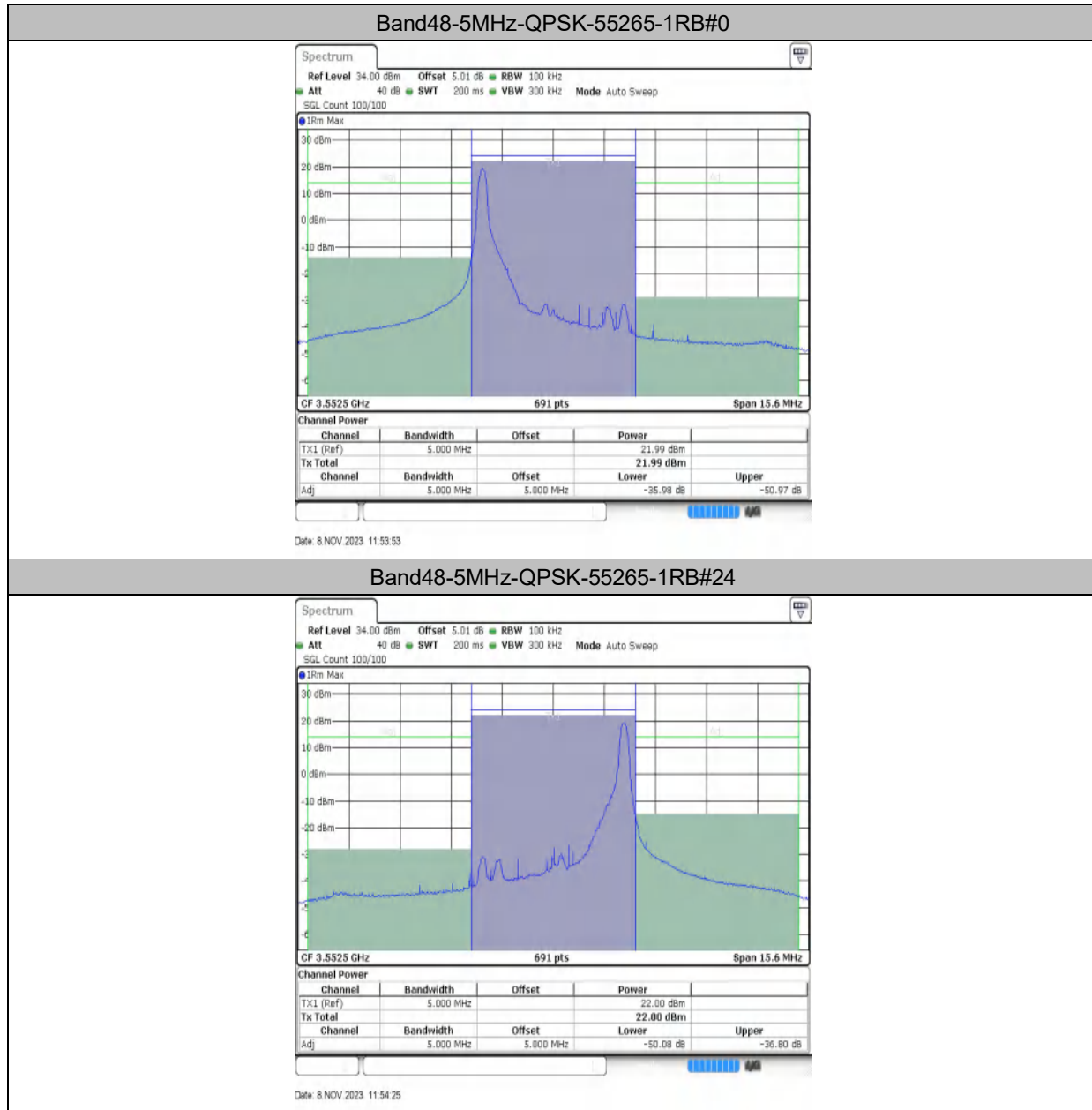
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Test Graphs

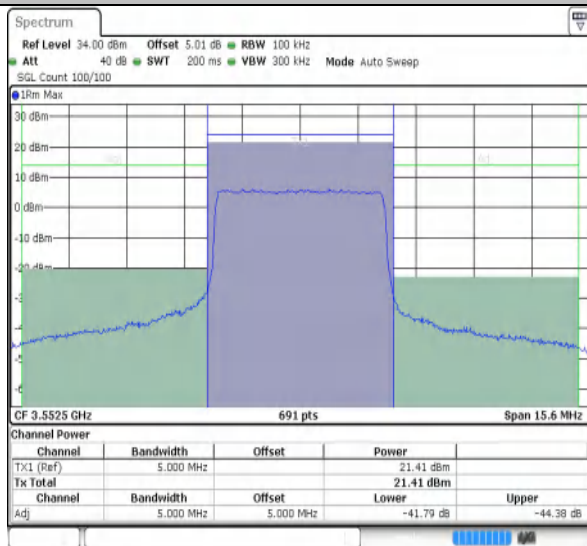


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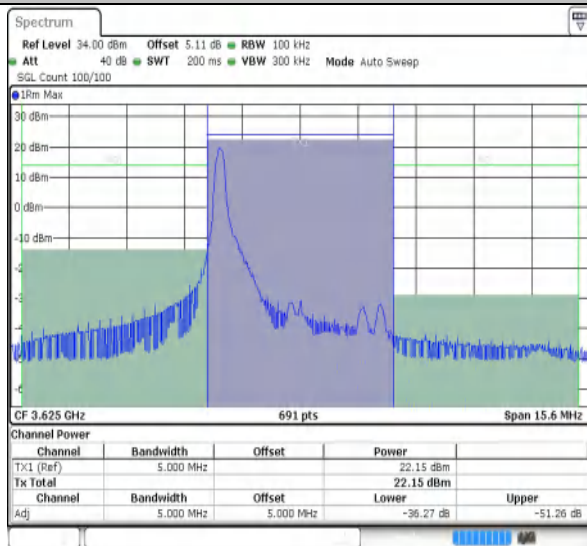
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Band48-5MHz-QPSK-55265-25RB#0



Date: 8 NOV 2023 11:54:58

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



Date: 8 NOV 2023 11:55:35

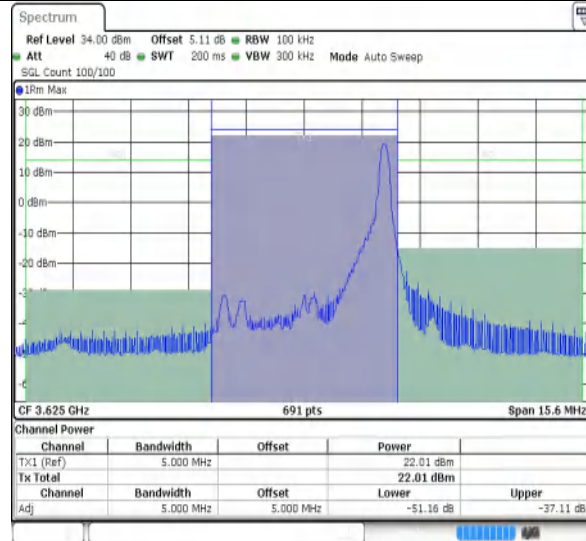


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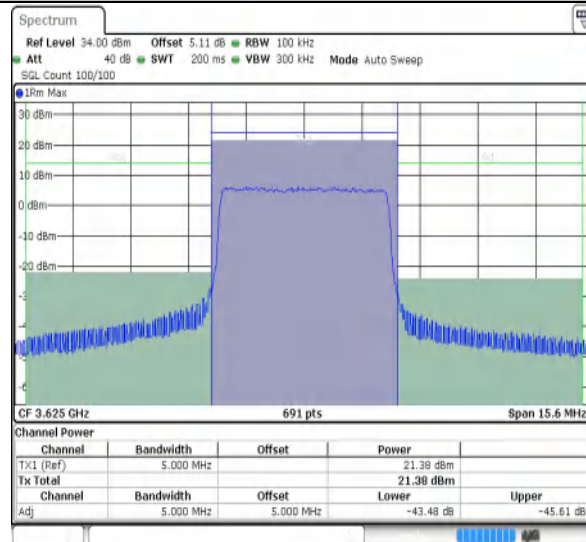
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Band48-5MHz-QPSK-55990-1RB#24



Date: 8 NOV 2023 11:56:07

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



Date: 8 NOV 2023 11:56:39

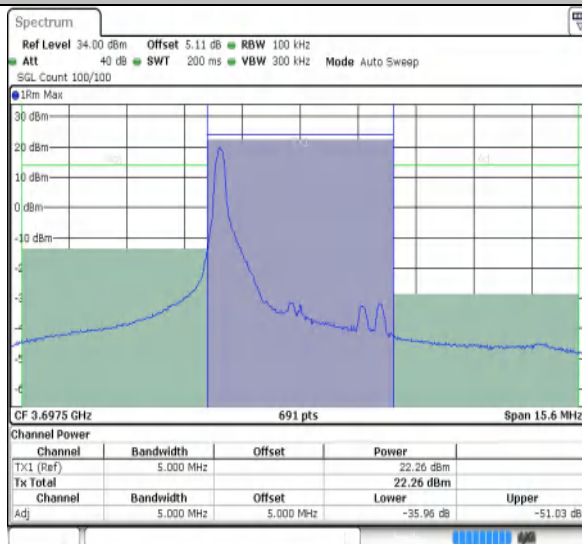


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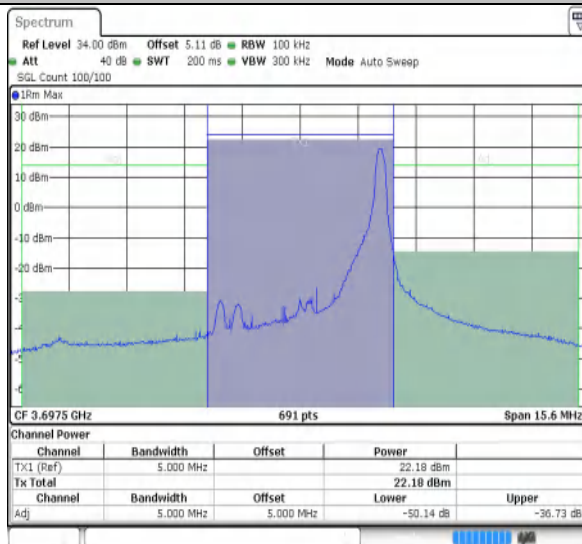
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Band48-5MHz-QPSK-56715-1RB#0



Date: 8 NOV 2023 11:57:13

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



Date: 8 NOV 2023 11:57:46

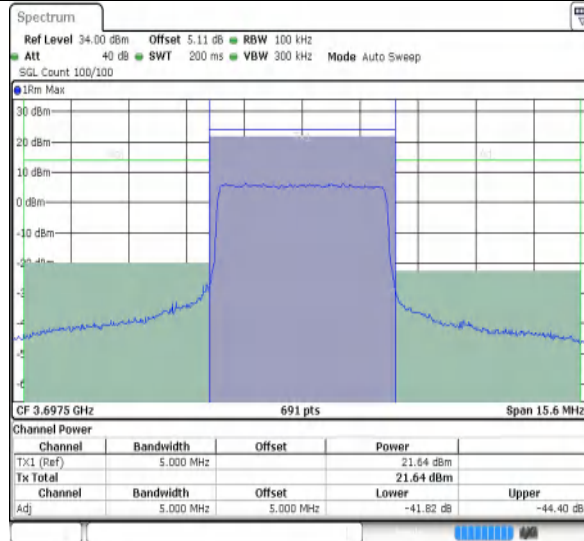


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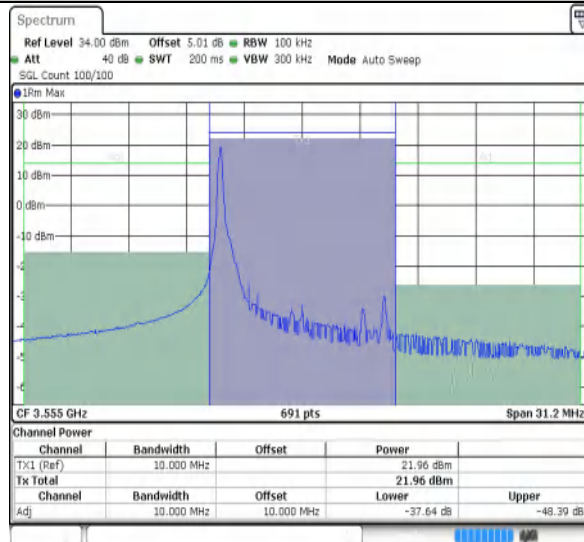
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Band48-5MHz-QPSK-56715-25RB#0



Date: 8 NOV 2023 11:58:20

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



Date: 8 NOV 2023 11:59:20

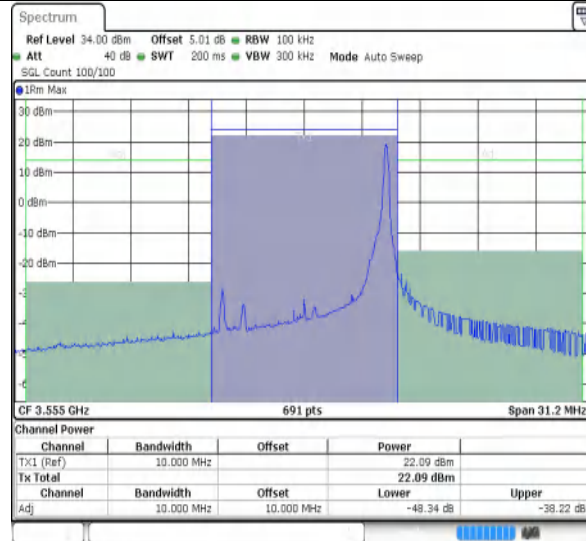


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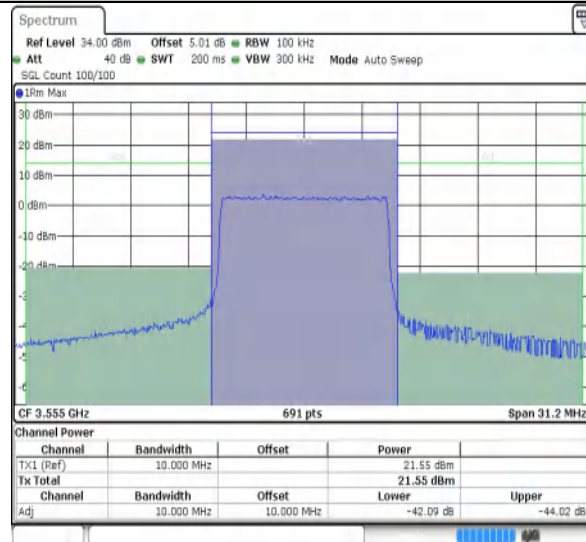
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Band48-10MHz-QPSK-55290-1RB#49



Date: 8 NOV 2023 11:59:53

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



Date: 8 NOV 2023 12:00:26

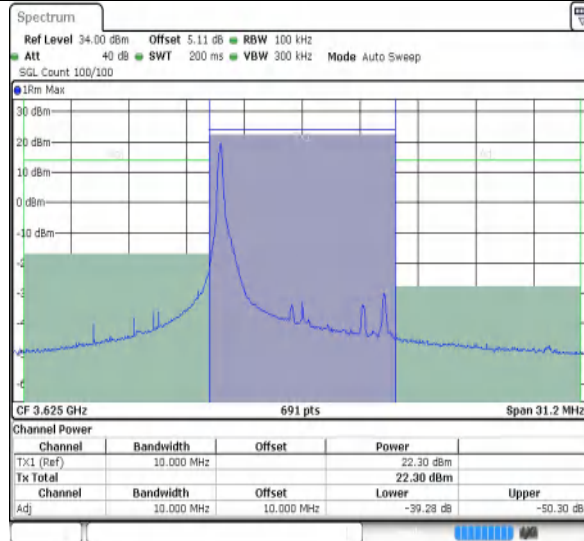


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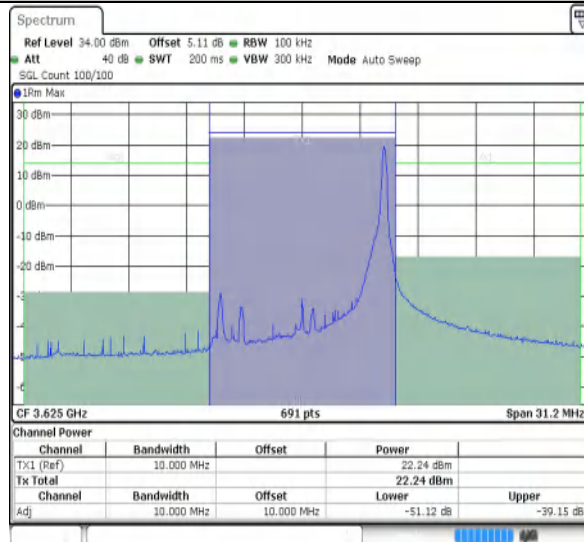
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Band48-10MHz-QPSK-55990-1RB#0



Date: 8 NOV 2023 12:00:59

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



Date: 8 NOV 2023 12:01:32

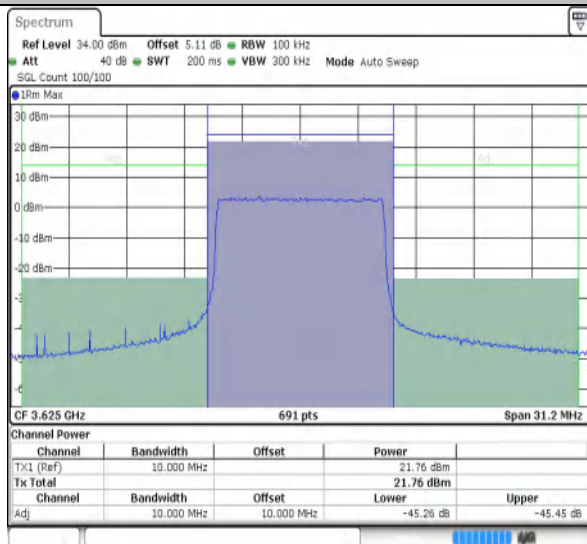


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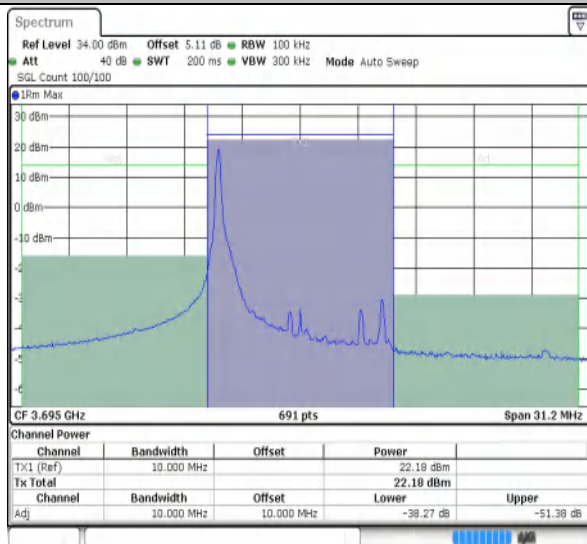
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Band48-10MHz-QPSK-55990-50RB#0



Date: 8 NOV 2023 12:02:06

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



Date: 8 NOV 2023 12:02:40

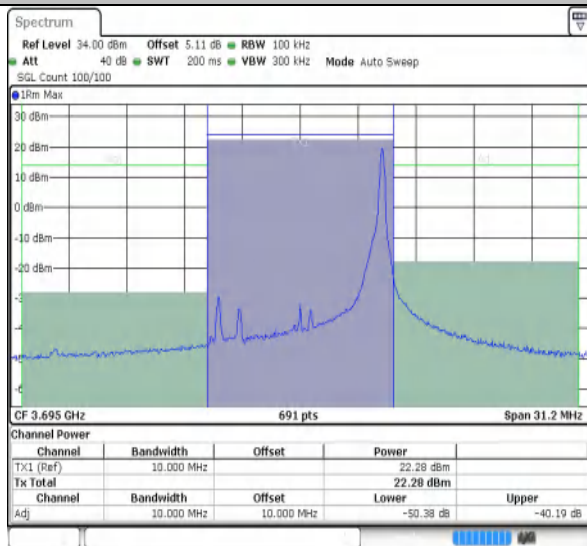


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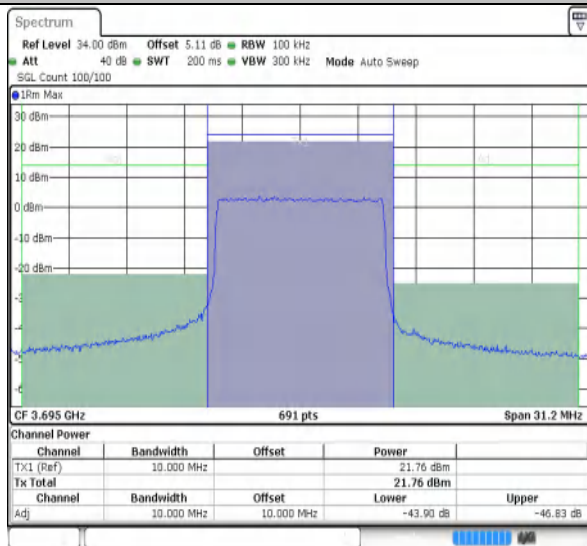
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Band48-10MHz-QPSK-56690-1RB#49



Date: 8 NOV 2023 12:03:13

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



Date: 8 NOV 2023 12:03:47

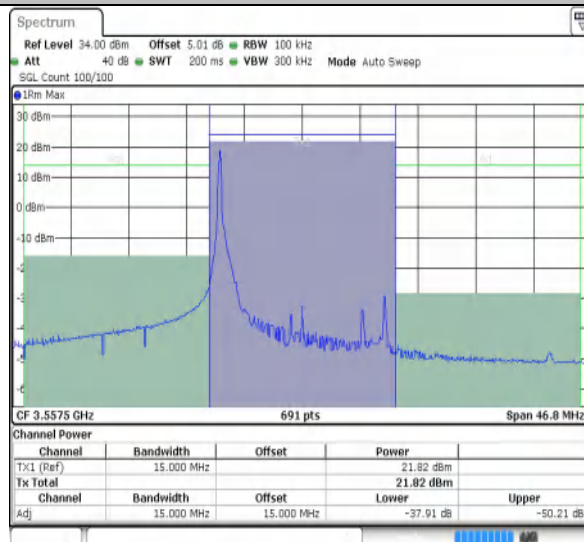


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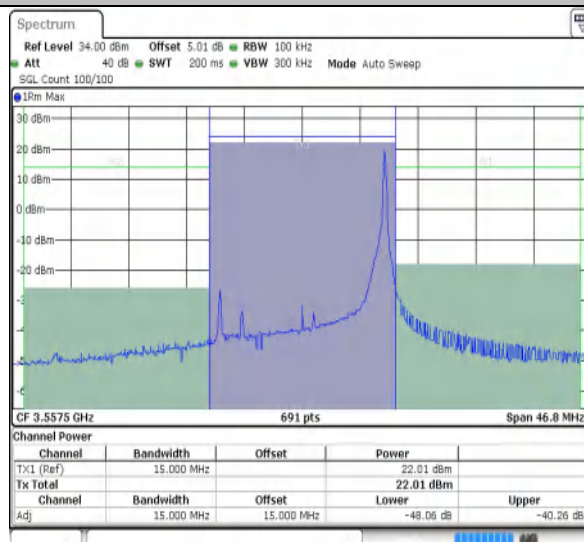
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Band48-15MHz-QPSK-55315-1RB#0



Date: 8 NOV 2023 12:04:41

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



Date: 8 NOV 2023 12:05:14

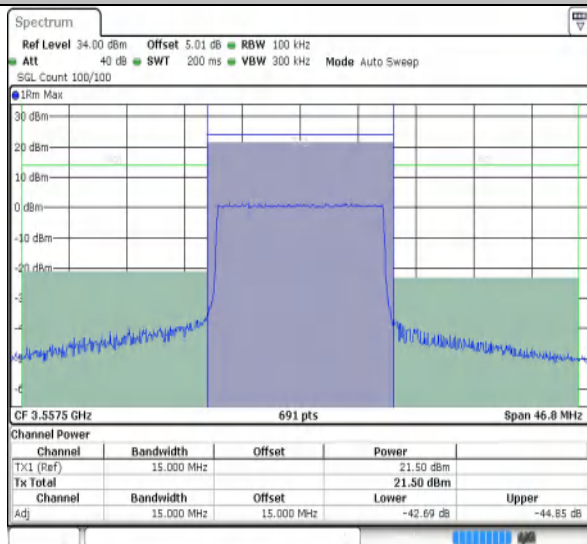


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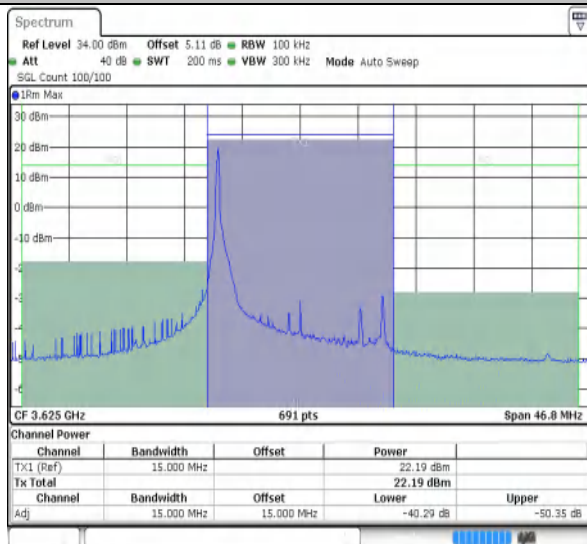
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Band48-15MHz-QPSK-55315-75RB#0



Date: 8 NOV 2023 12:05:48

Band48-15MHz-QPSK-55990-1RB#0



Date: 8 NOV 2023 12:06:22

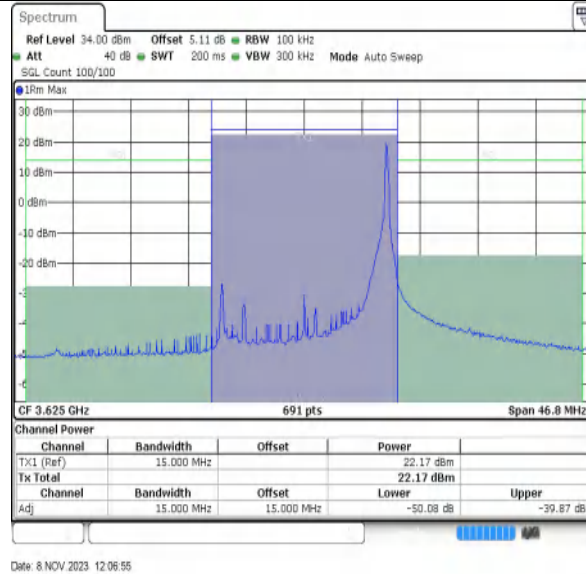


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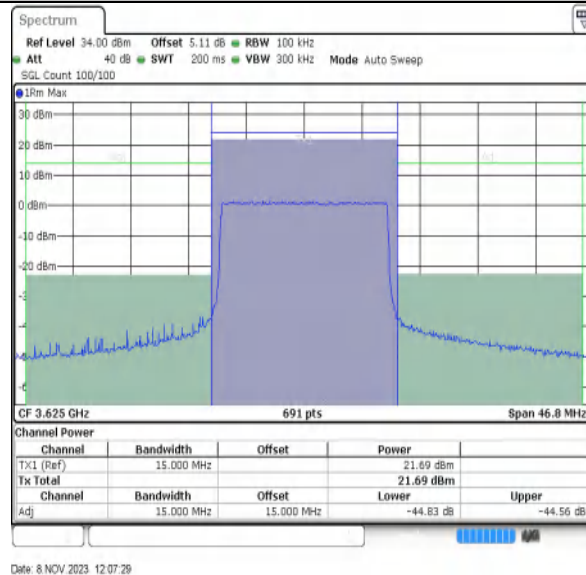
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Band48-15MHz-QPSK-55990-1RB#74



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

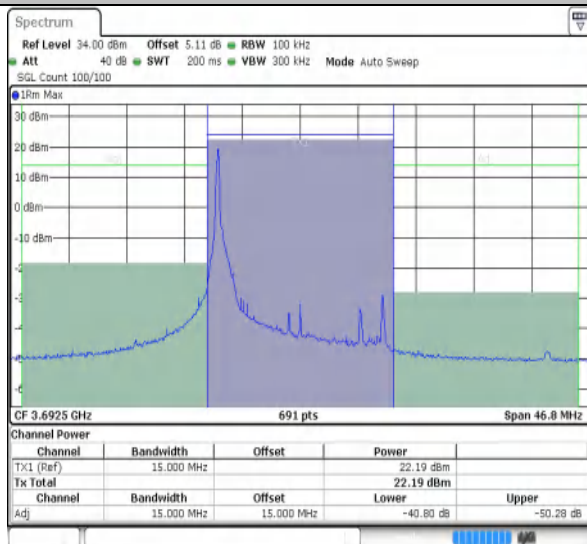


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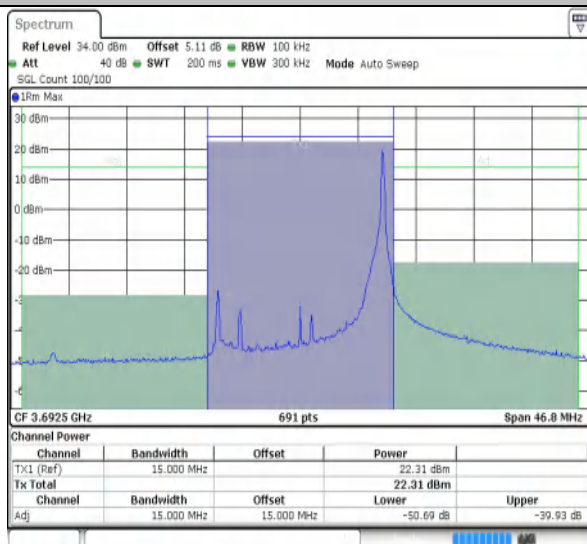
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Band48-15MHz-QPSK-56665-1RB#0



Date: 8 NOV 2023 12:08:03

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



Date: 8 NOV 2023 12:08:37

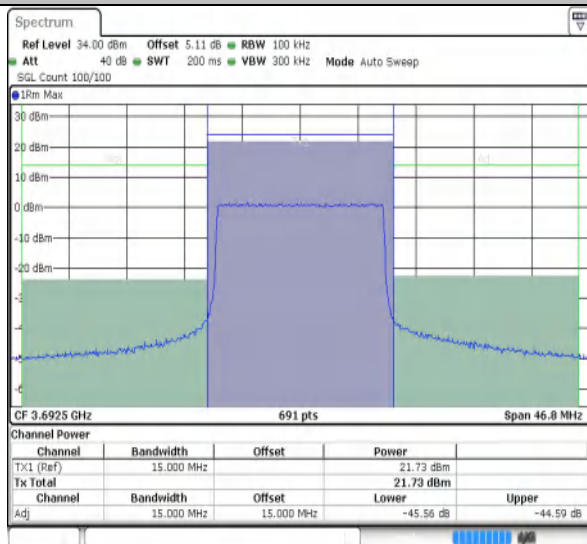


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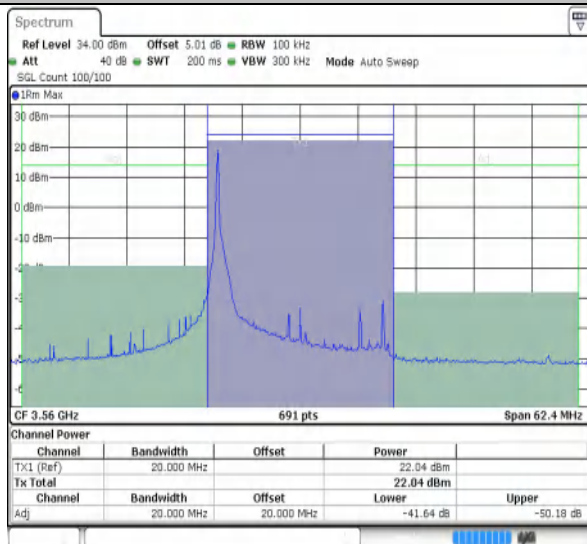
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Band48-15MHz-QPSK-56665-75RB#0



Date: 8 NOV 2023 12:09:11

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



Date: 8 NOV 2023 12:10:04

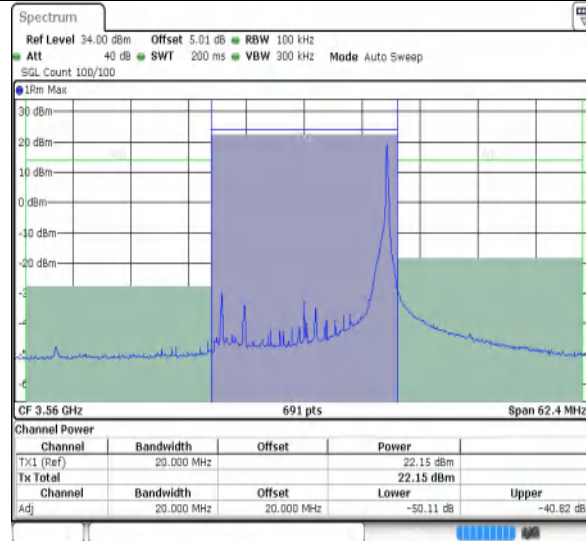


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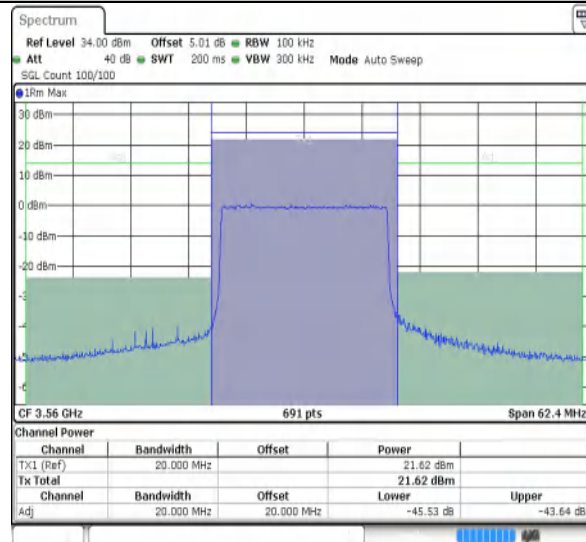
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Band48-20MHz-QPSK-55340-1RB#99



Date: 8 NOV 2023 12:10:36

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



Date: 8 NOV 2023 12:11:09

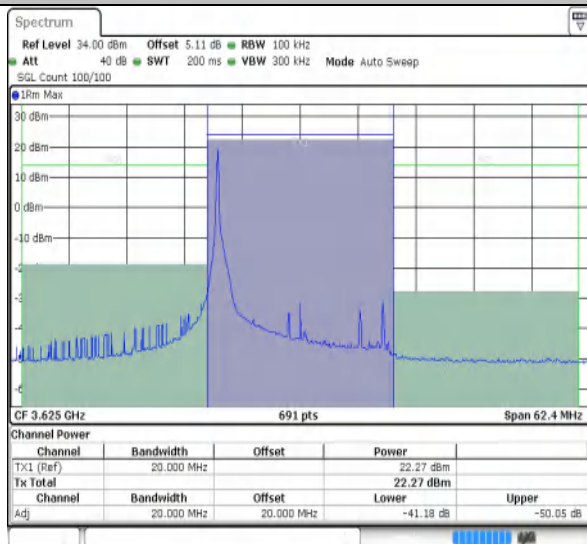


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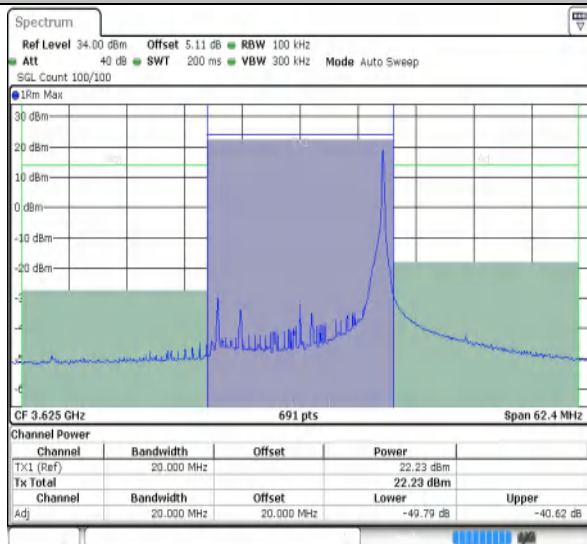
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Band48-20MHz-QPSK-55990-1RB#0



Date: 8 NOV 2023 12:11:42

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



Date: 8 NOV 2023 12:12:14

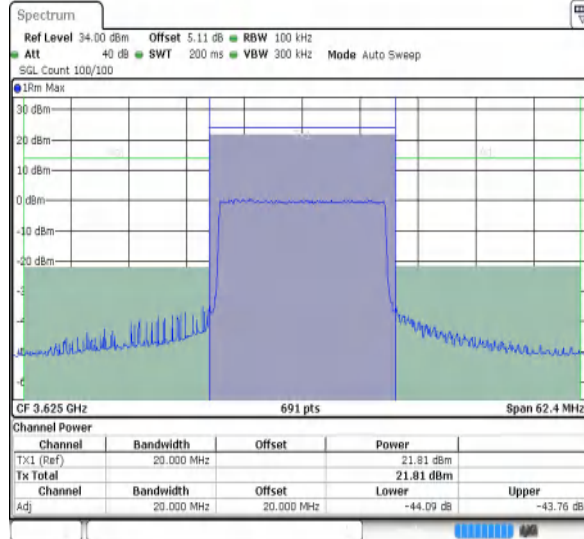


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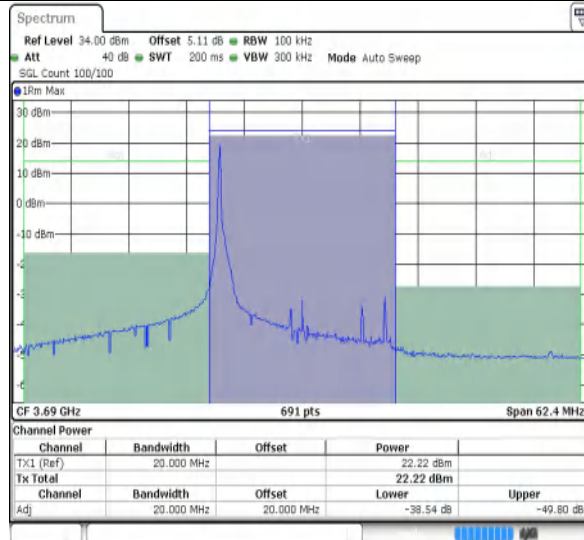
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Band48-20MHz-QPSK-55990-100RB#0



Date: 8 NOV 2023 12:12:46

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



Date: 8 NOV 2023 12:13:19

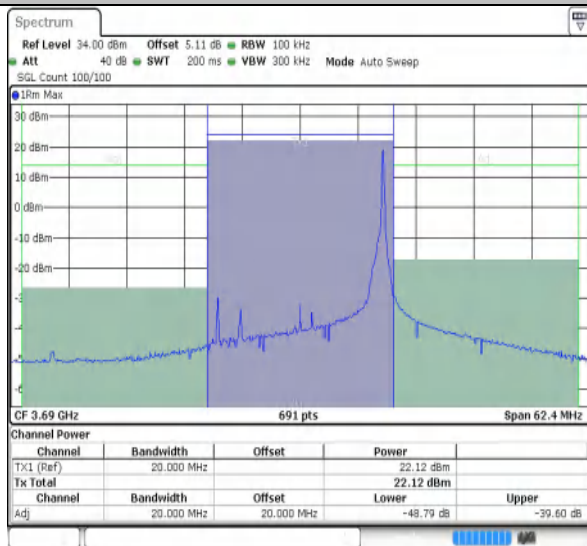


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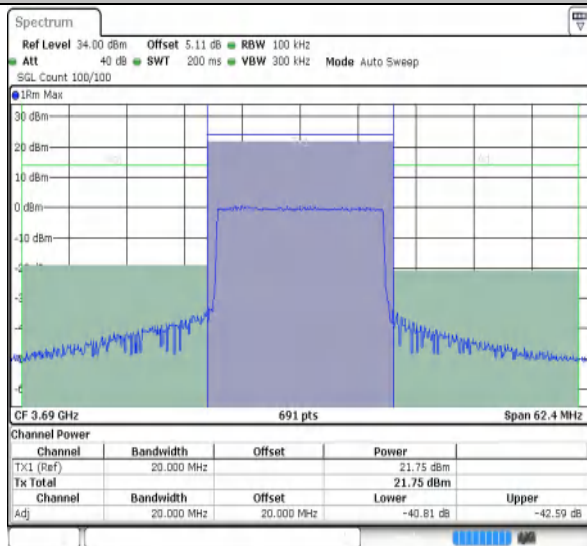
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Band48-20MHz-QPSK-56640-1RB#99



Date: 8 NOV 2023 12:13:52

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



Date: 8 NOV 2023 12:14:24



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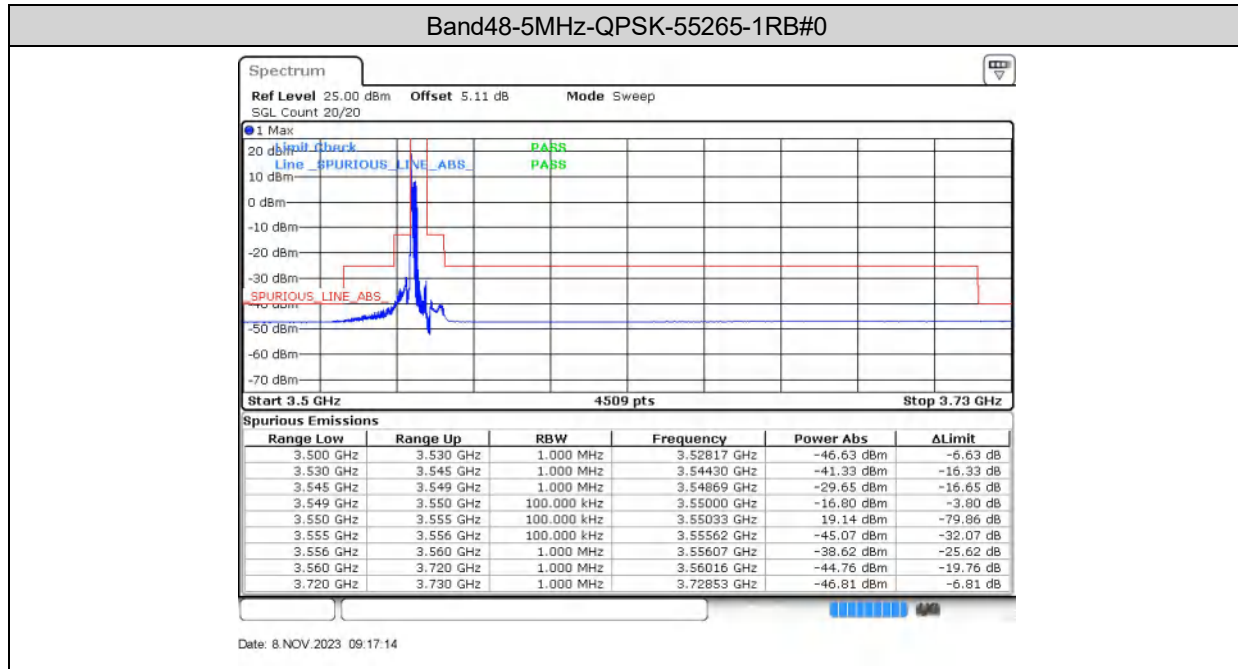
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Band Edge

Test Graphs



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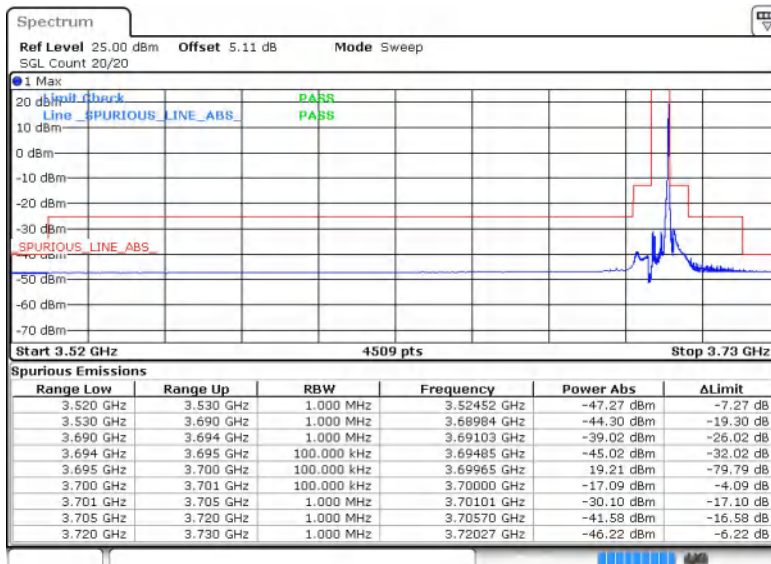


Band48-5MHz-QPSK-55265-25RB#0



Date: 8 NOV 2023 09:20:35

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



Date: 8 NOV 2023 09:24:22

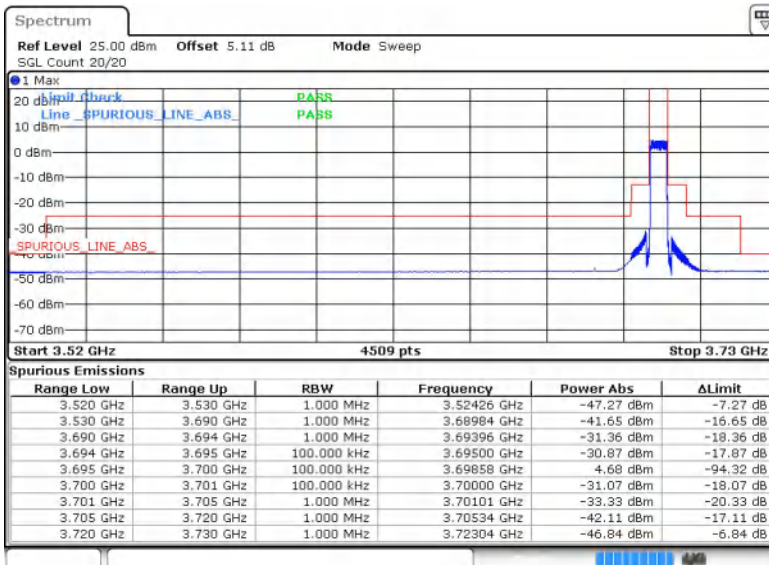


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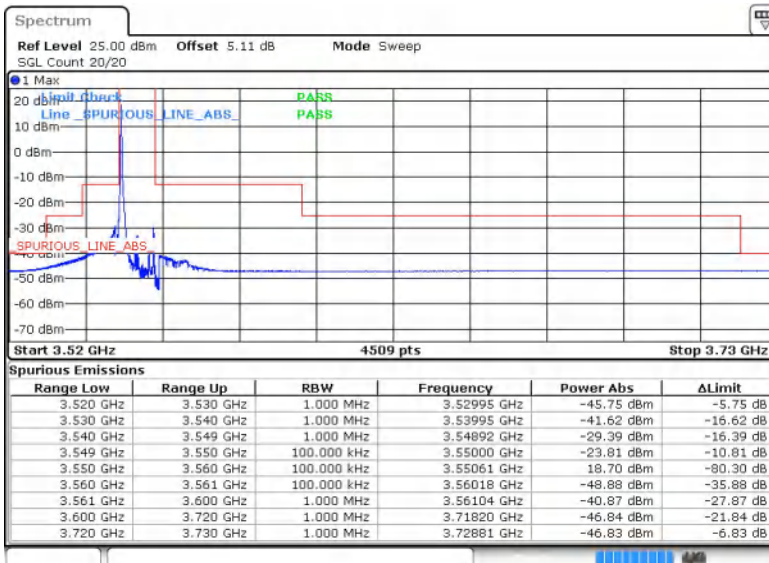
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Band48-5MHz-QPSK-56715-25RB#0



Date: 8 NOV 2023 09:28:25

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



Date: 8 NOV 2023 09:32:06

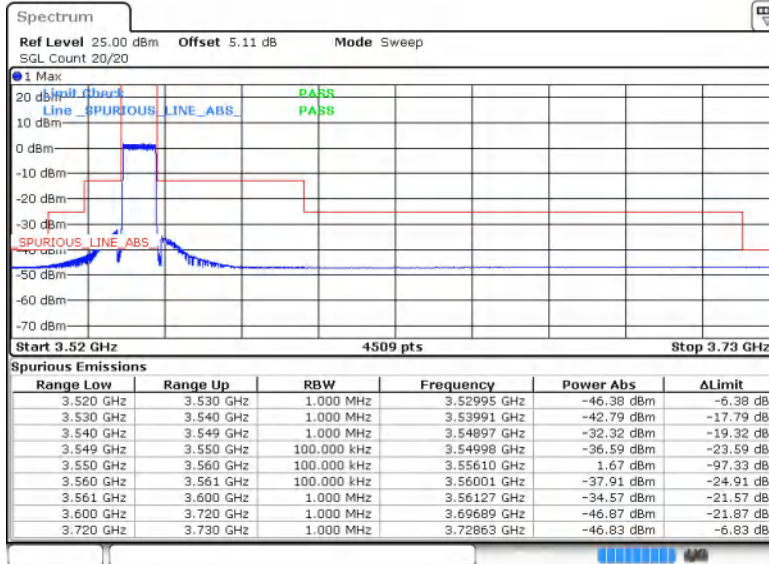


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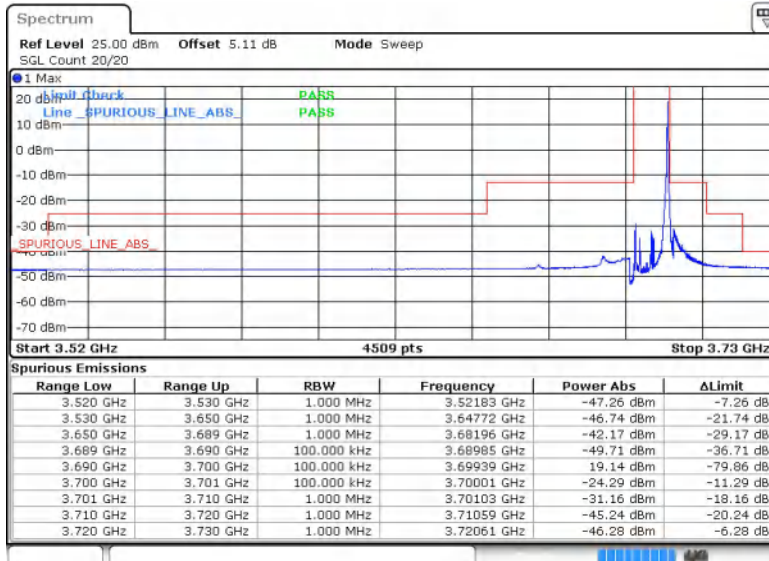
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Band48-10MHz-QPSK-55290-50RB#0



Date: 8 NOV 2023 09:35:28

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



Date: 8 NOV 2023 09:39:12



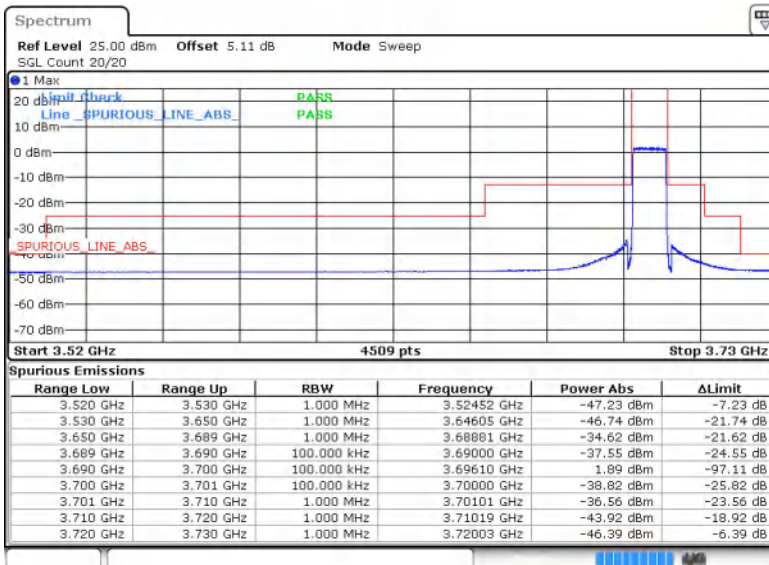
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Band48-10MHz-QPSK-56690-50RB#0



Date: 8 NOV 2023 09:42:36

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



Date: 8 NOV 2023 09:46:20

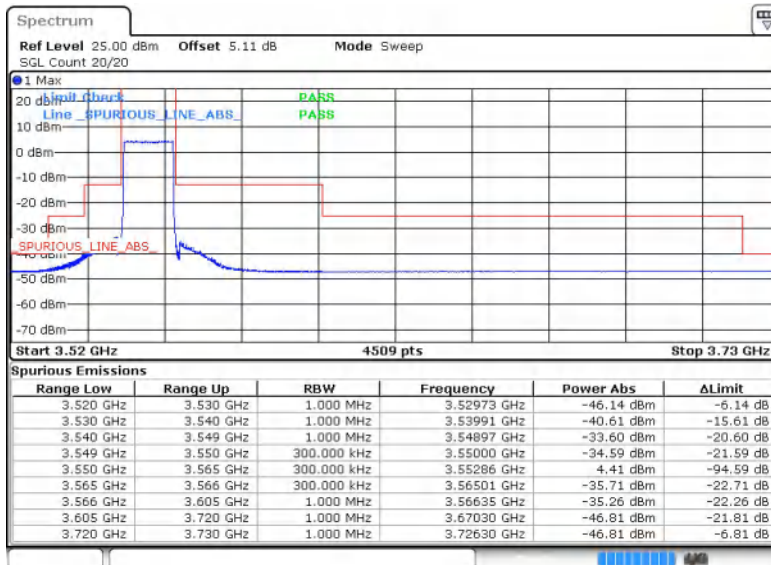


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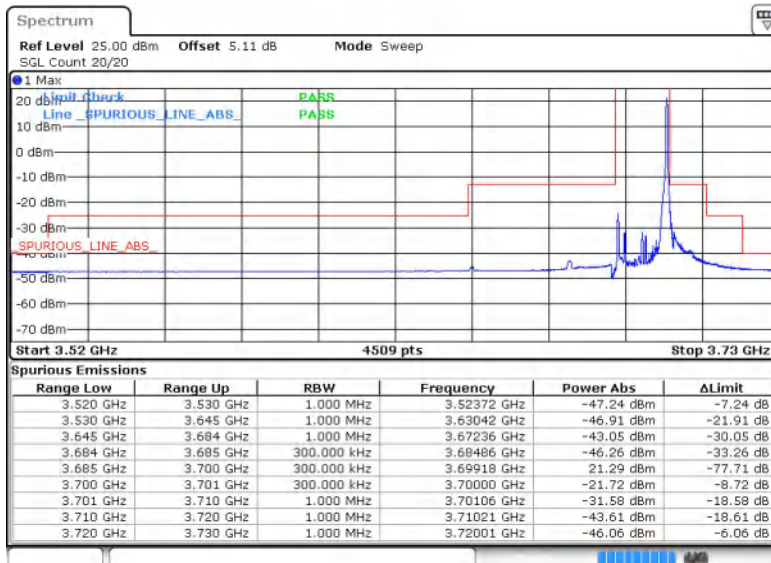
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Band48-15MHz-QPSK-55315-75RB#0



Date: 8 NOV 2023 09:49:41

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



Date: 8 NOV 2023 09:53:27

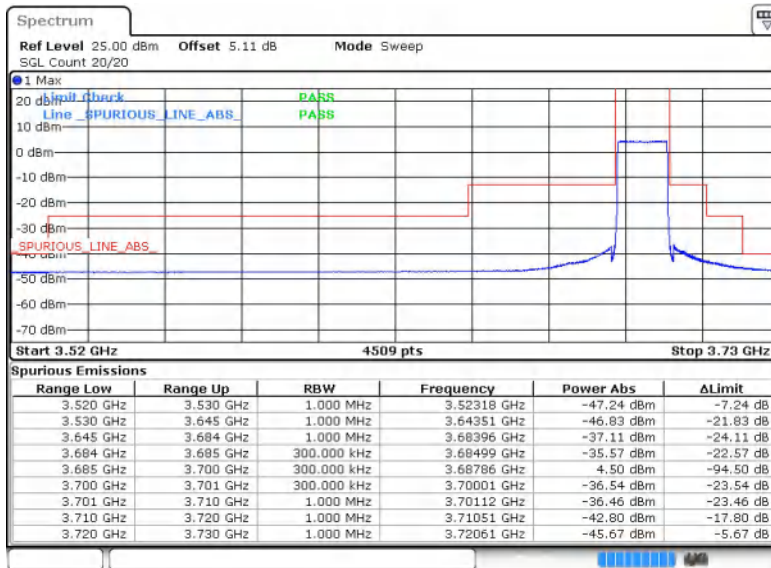


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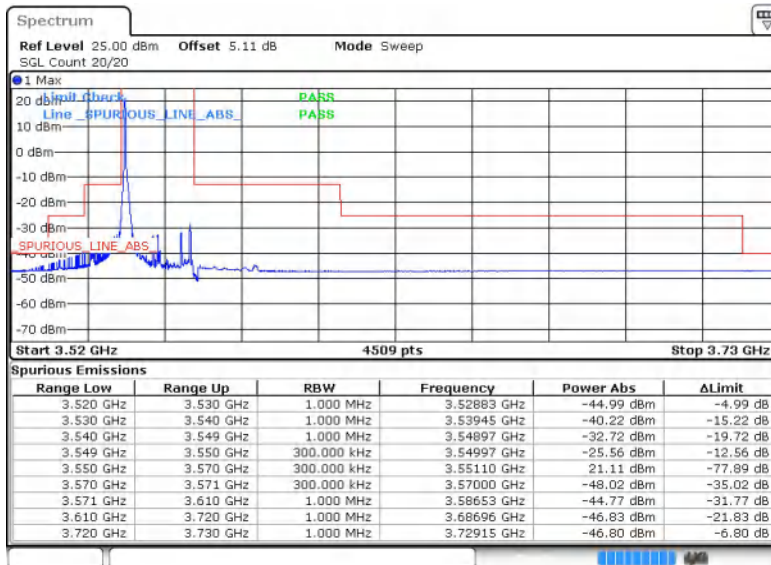
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Band48-15MHz-QPSK-56665-75RB#0



Date: 8 NOV 2023 09:56:49

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



Date: 8 NOV 2023 10:00:33

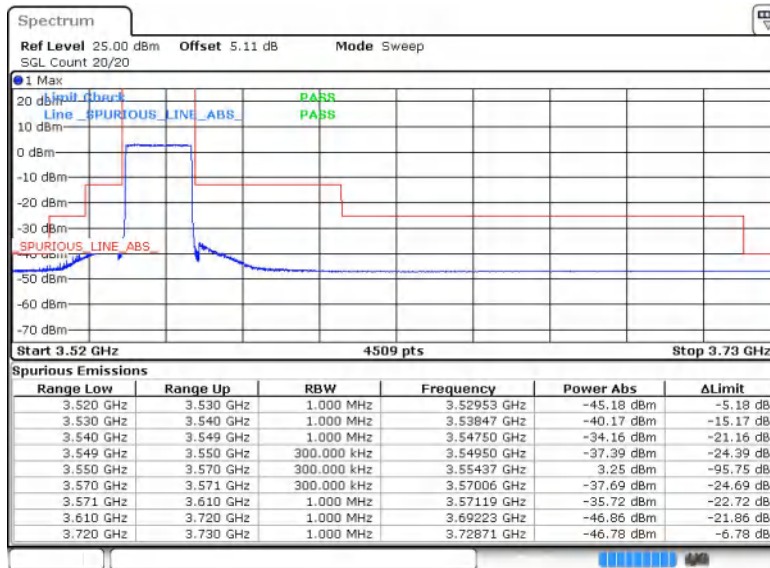


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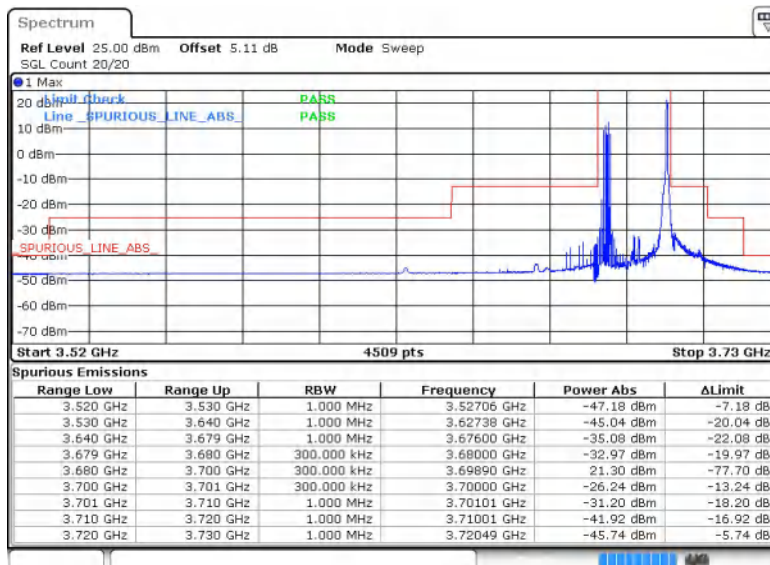
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Band48-20MHz-QPSK-55340-100RB#0



Date: 8 NOV 2023 10:03:56

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



Date: 8 NOV 2023 10:07:25

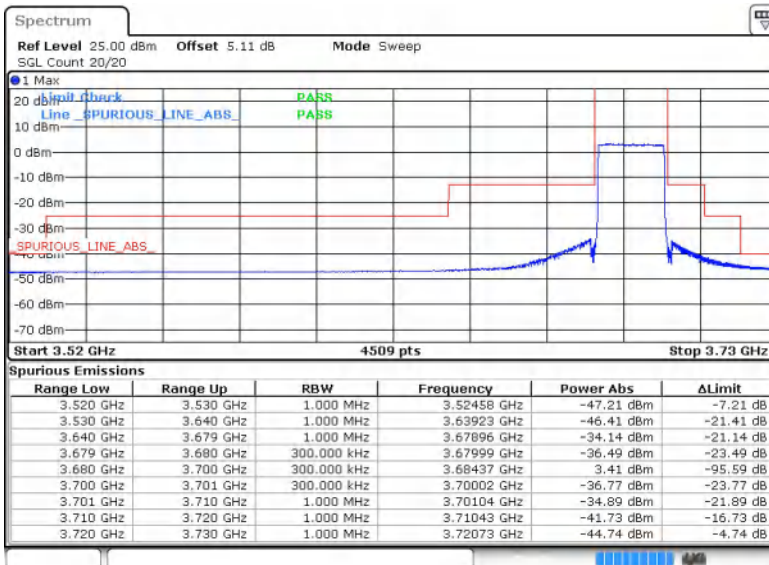


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Band48-20MHz-QPSK-56640-100RB#0



Date: 8 NOV 2023 10:10:48



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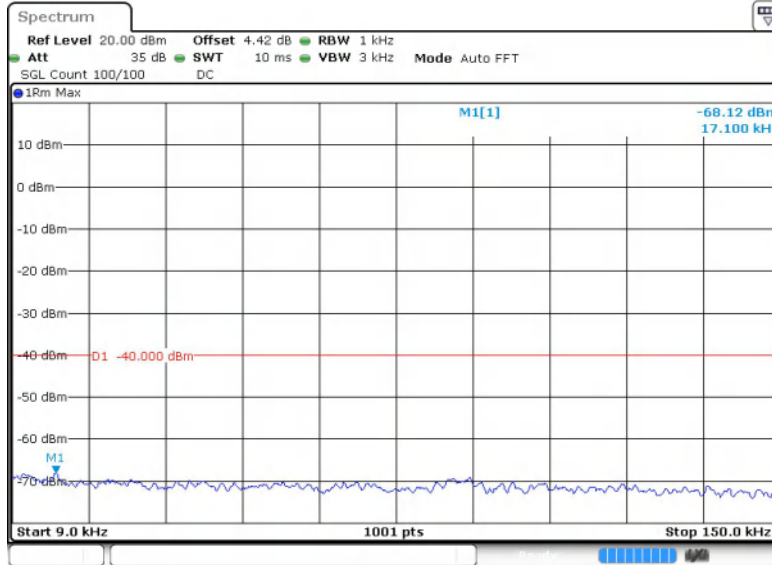
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Conducted Spurious Emission

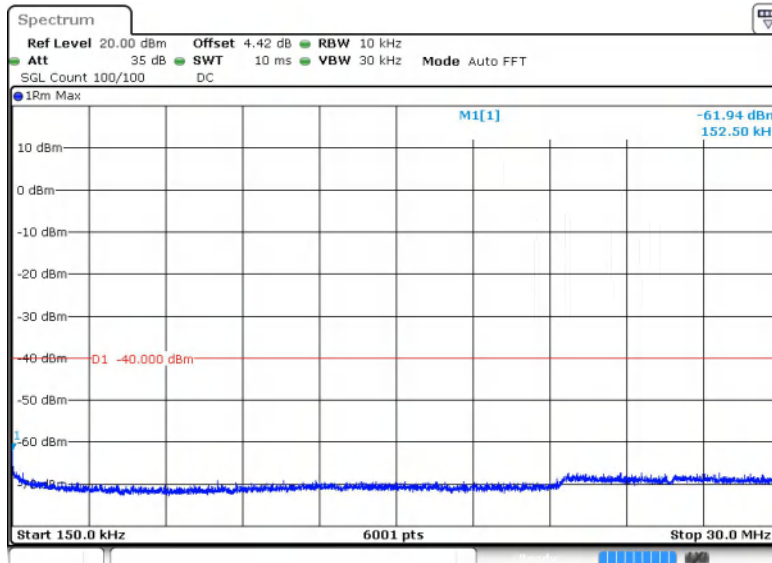
Test Graphs

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



Date: 14.NOV.2023 17:10:03

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



Date: 14.NOV.2023 17:10:10

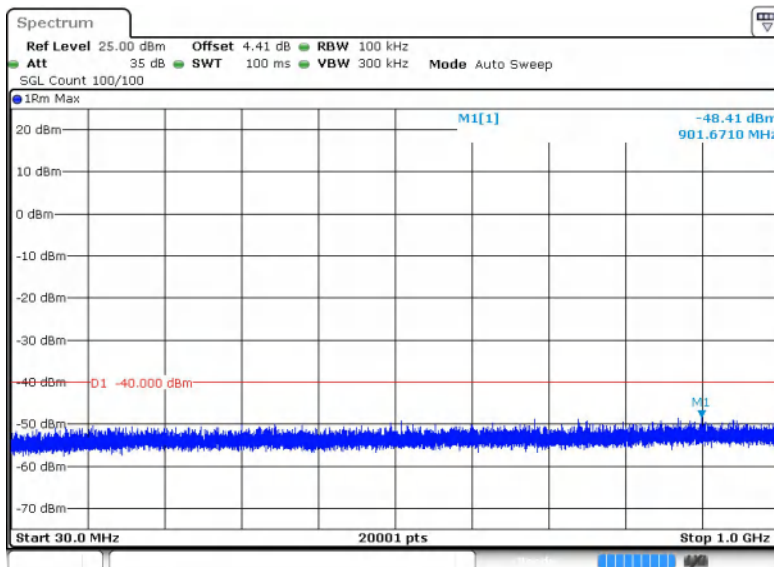


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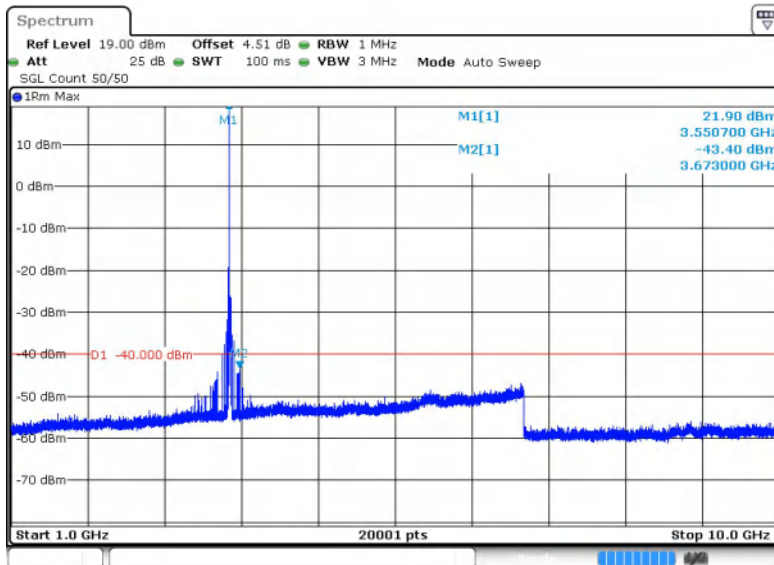
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Band48-20MHz-QPSK-55340-1RB#0-Range3:30~1000MHz



Date: 14.NOV.2023 17:10:26

Band48-20MHz-QPSK-55340-1RB#0-Range4:1000~10000MHz



Date: 14.NOV.2023 17:10:39



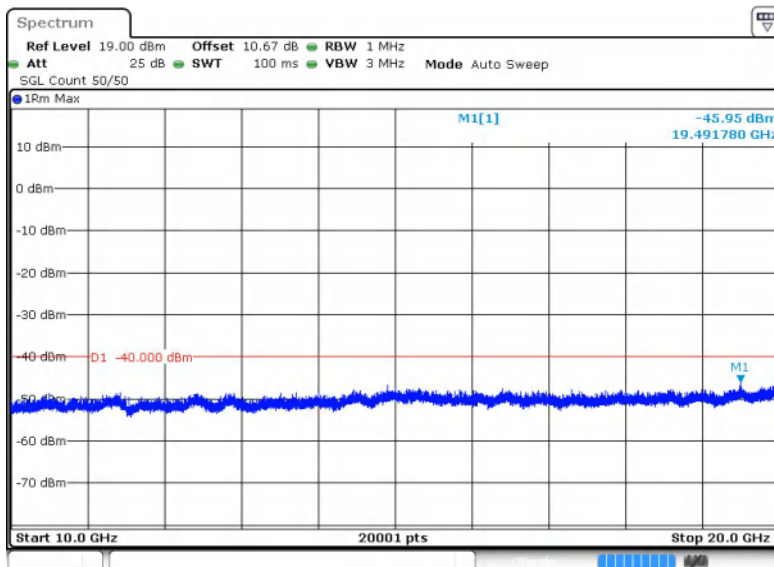
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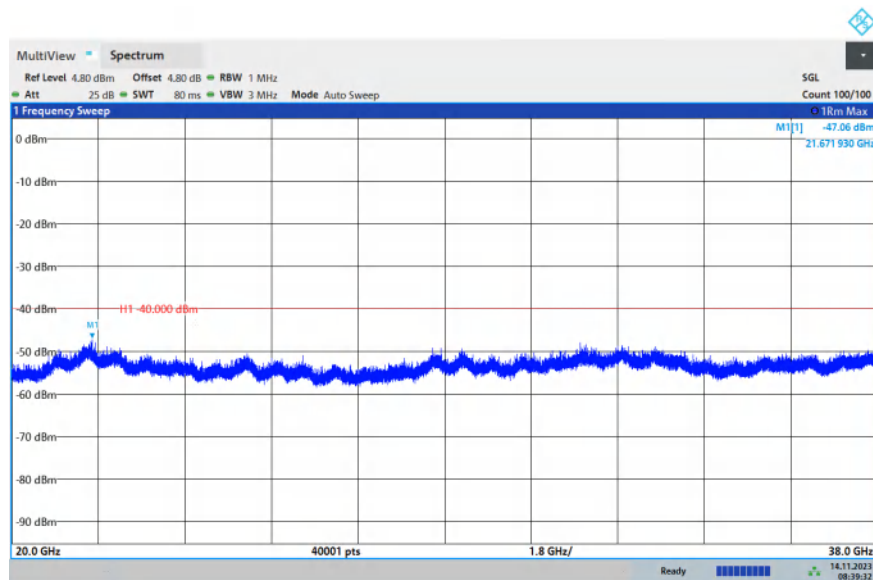


Band48-20MHz-QPSK-55340-1RB#0-Range5:10000~20000MHz



Date: 14.NOV.2023 17:10:52

Band48-20MHz-QPSK-55340-1RB#0-Range6:20000~38000MHz

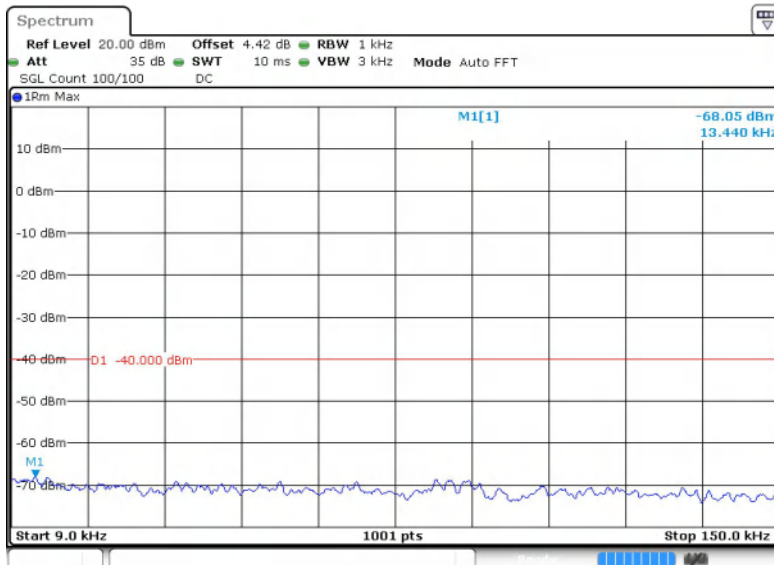


08:39:33 14.11.2023



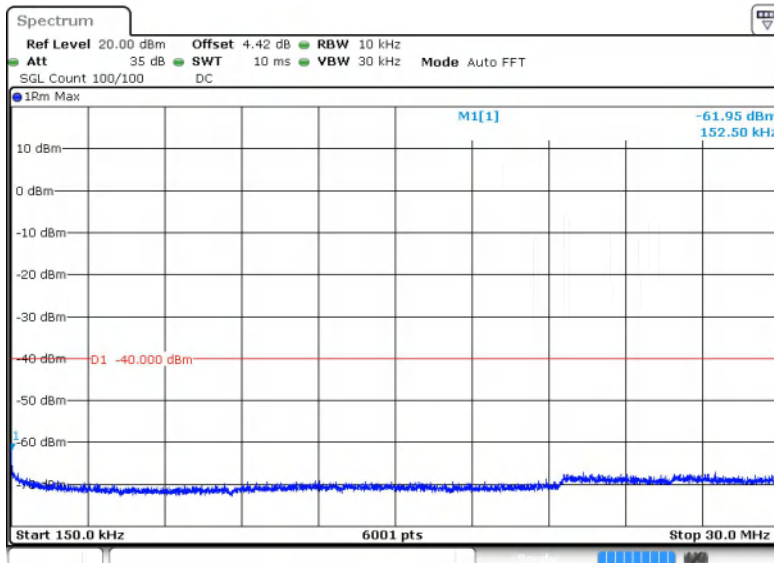
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Band48-20MHz-QPSK-55990-1RB#0-Range1:0.009~0.15MHz



Date: 14.NOV.2023 17:11:20

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



Date: 14.NOV.2023 17:11:27

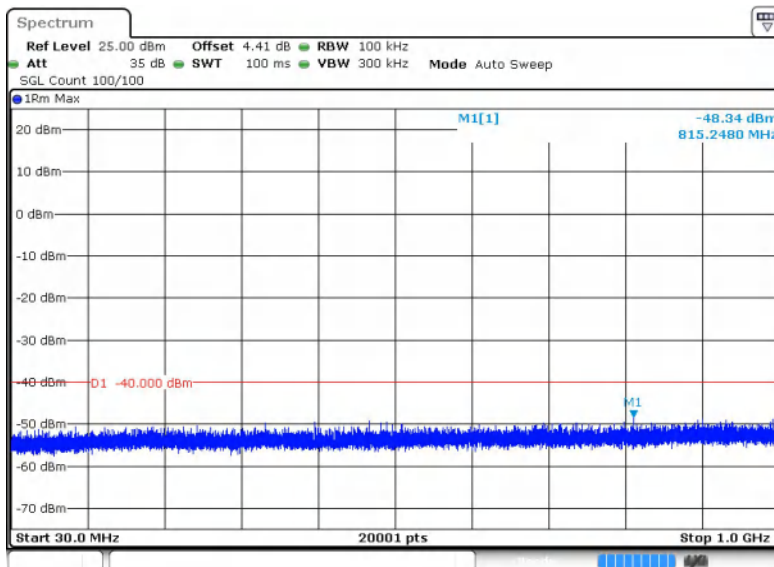


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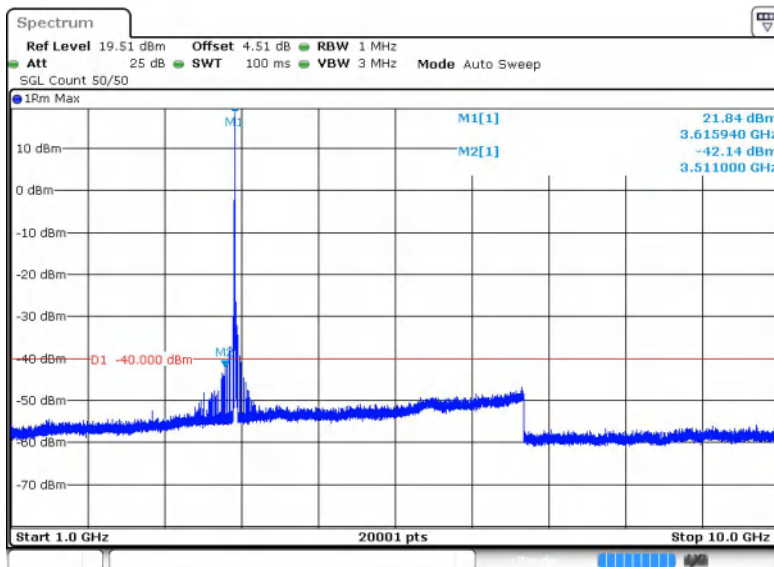
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Band48-20MHz-QPSK-55990-1RB#0-Range3:30~1000MHz



Date: 14.NOV.2023 17:11:43

Band48-20MHz-QPSK-55990-1RB#0-Range4:1000~10000MHz



Date: 14.NOV.2023 17:13:38



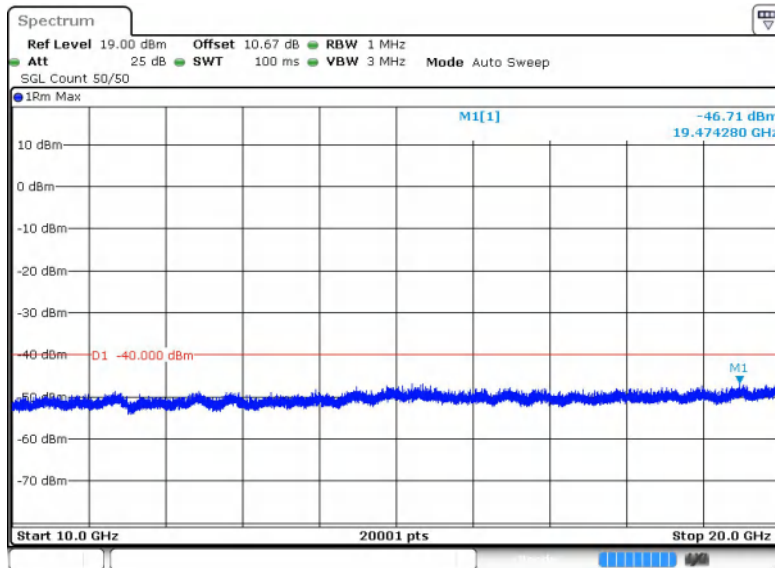
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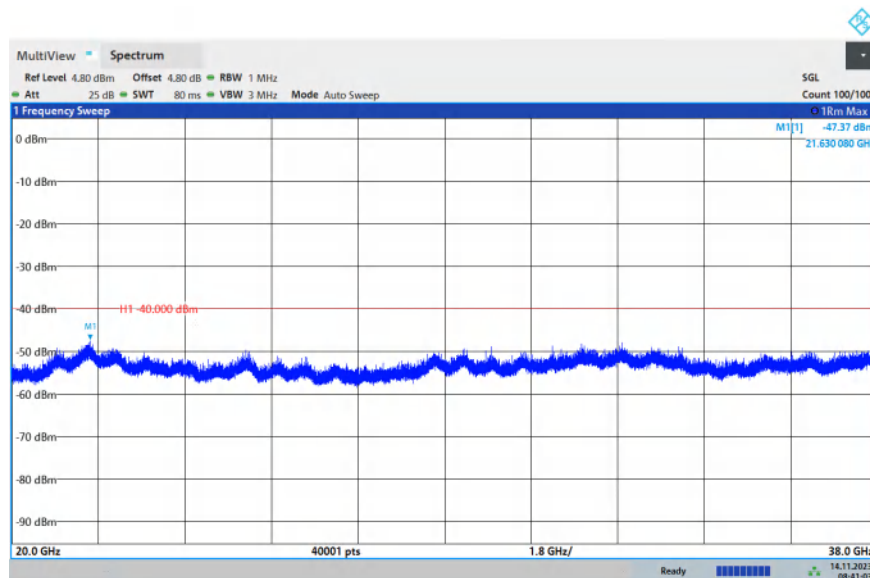


Band48-20MHz-QPSK-55990-1RB#0-Range5:10000~20000MHz



Date: 14.NOV.2023 17:13:51

Band48-20MHz-QPSK-55990-1RB#0-Range6:20000~38000MHz



08:41:03 14.11.2023

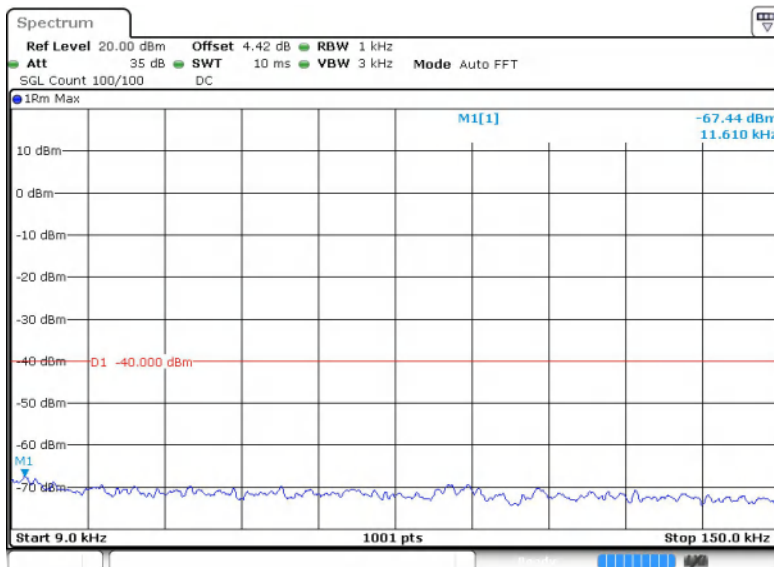


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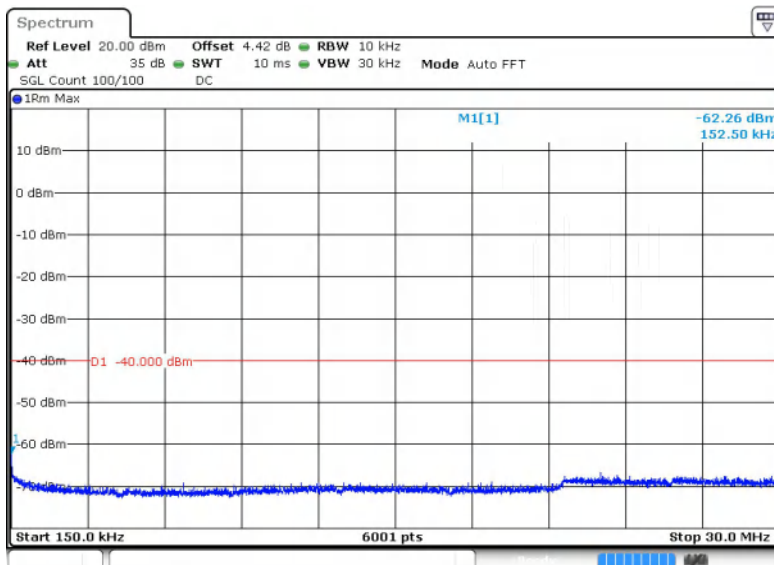
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Band48-20MHz-QPSK-56640-1RB#0-Range1:0.009~0.15MHz



Date: 14.NOV.2023 17:14:09

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



Date: 14.NOV.2023 17:14:16



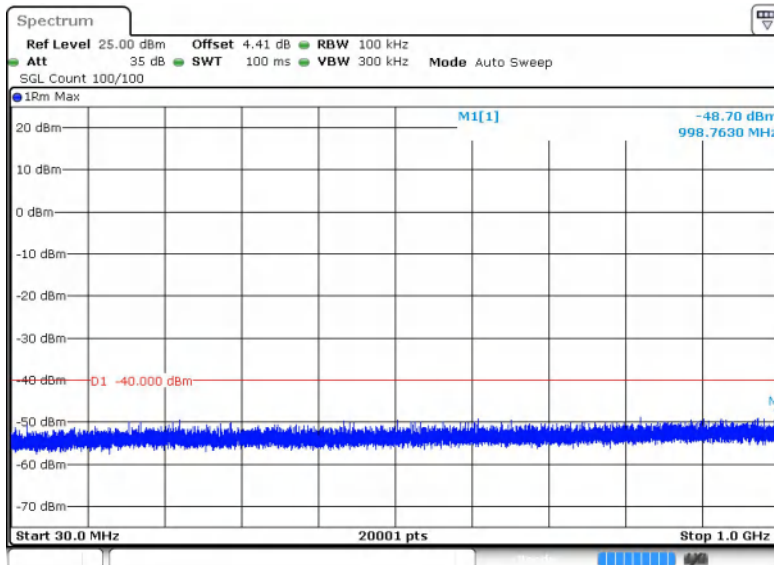
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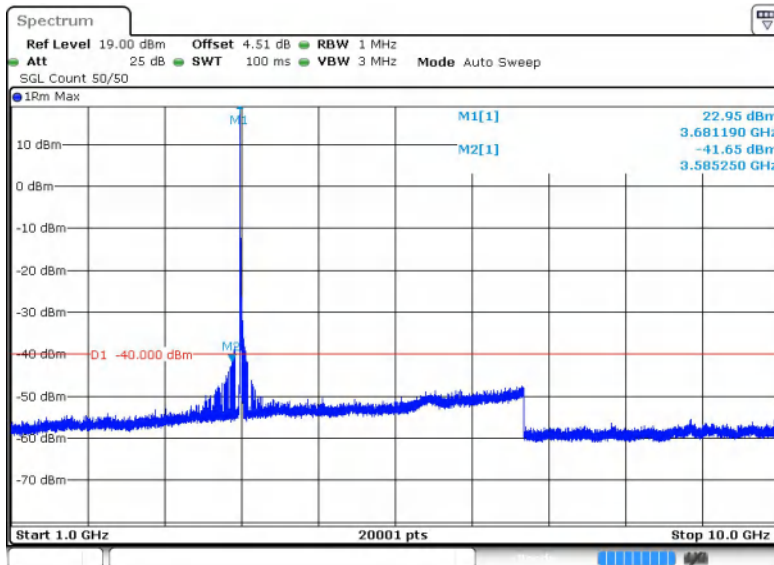


Band48-20MHz-QPSK-56640-1RB#0-Range3:30~1000MHz



Date: 14.NOV.2023 17:14:32

Band48-20MHz-QPSK-56640-1RB#0-Range4:1000~10000MHz



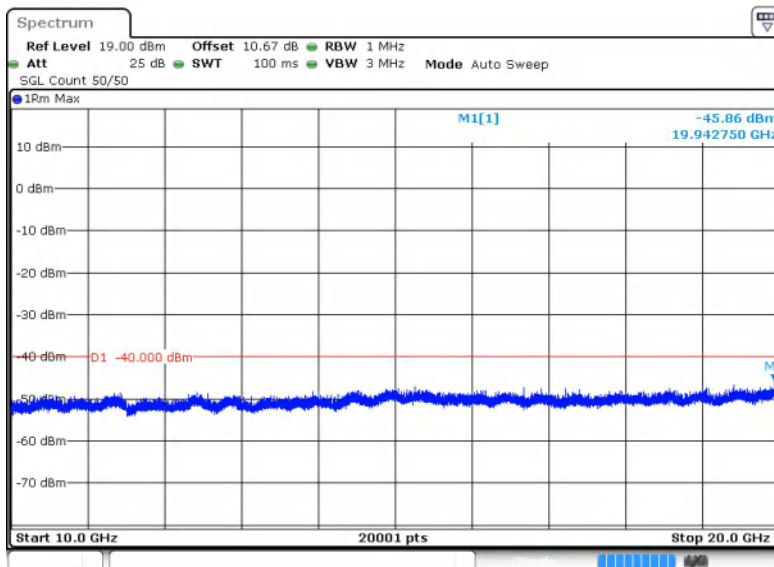
Date: 14.NOV.2023 17:14:44



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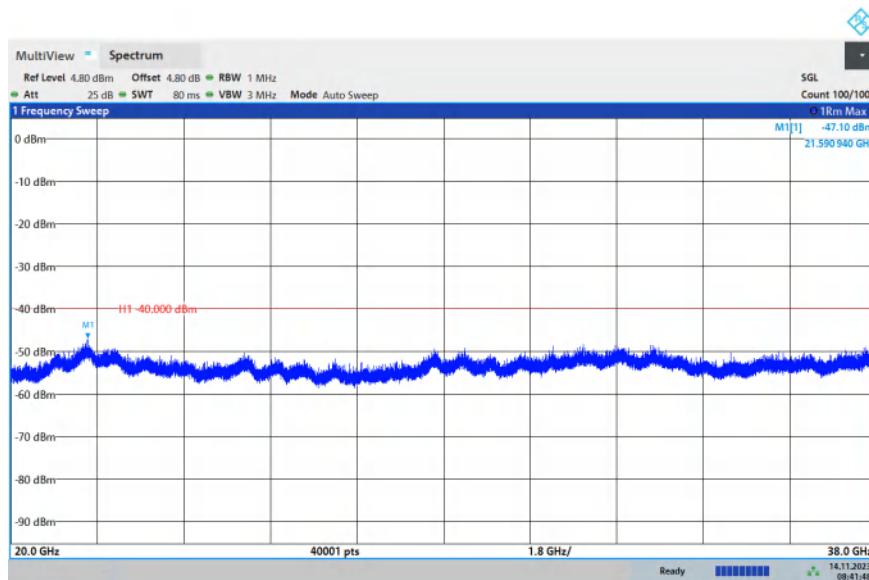


Band48-20MHz-QPSK-56640-1RB#0-Range5:10000~20000MHz



Date: 14.NOV.2023 17:14:57

Band48-20MHz-QPSK-56640-1RB#0-Range6:20000~38000MHz



08:41:49 14.11.2023



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Field Strength of Spurious Radiation

Test Band = B48_ TM1

Test Channel = Low channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7109.5305	43.96	35.93	-45.21	-60.58	-40.00	20.58	Horizontal
2	8448.1974	42.03	36.16	-43.49	-60.56	-40.00	20.56	Horizontal
3	9960.523	39.71	38.31	-40.91	-58.15	-40.00	18.15	Horizontal
4	10651.1326	37.95	39.18	-39.83	-57.96	-40.00	17.96	Horizontal
5	14214.0107	36.91	41.52	-37.98	-54.81	-40.00	14.81	Horizontal
6	17747.5624	35.16	45.56	-35.83	-50.37	-40.00	10.37	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7102.0551	47.69	35.92	-45.26	-56.91	-40.00	16.91	Vertical
2	7968.6234	45.00	36.21	-44.09	-58.14	-40.00	18.14	Vertical
3	9834.5917	39.56	38.02	-41.05	-58.73	-40.00	18.73	Vertical
4	10655.1578	38.29	39.19	-39.78	-57.56	-40.00	17.56	Vertical
5	14217.4609	36.54	41.52	-37.95	-55.15	-40.00	15.15	Vertical
6	17738.3619	34.96	45.51	-35.78	-50.57	-40.00	10.57	Vertical



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Test Band = B48_TM1

Test Channel = Mid channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7246.3873	43.67	36.10	-45.04	-60.53	-40.00	20.53	Horizontal
2	8674.7587	42.10	36.13	-43.07	-60.10	-40.00	20.10	Horizontal
3	9655.7578	40.03	37.61	-41.72	-59.34	-40.00	19.34	Horizontal
4	10850.6675	36.94	39.42	-39.41	-58.31	-40.00	18.31	Horizontal
5	14466.4483	36.77	41.55	-37.90	-54.84	-40.00	14.84	Horizontal
6	17345.0423	34.28	43.43	-36.53	-54.08	-40.00	14.08	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7232.0116	46.90	36.08	-44.92	-57.20	-40.00	17.20	Vertical
2	8436.6968	42.36	36.16	-43.48	-60.22	-40.00	20.22	Vertical
3	9761.5631	39.80	37.85	-41.39	-59.00	-40.00	19.00	Vertical
4	10863.3182	37.28	39.44	-39.35	-57.89	-40.00	17.89	Vertical
5	14463.5732	37.74	41.55	-37.87	-53.84	-40.00	13.84	Vertical
6	17384.7192	33.59	43.64	-36.23	-54.26	-40.00	14.26	Vertical



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Test Band = B48_ TM1

Test Channel = High channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7345.8673	44.03	36.22	-45.05	-60.06	-40.00	20.06	Horizontal
2	8340.667	42.42	36.17	-43.59	-60.26	-40.00	20.26	Horizontal
3	9606.3053	40.26	37.49	-41.87	-59.38	-40.00	19.38	Horizontal
4	11051.3526	37.45	39.61	-39.25	-57.45	-40.00	17.45	Horizontal
5	14755.1128	36.20	41.58	-37.27	-54.75	-40.00	14.75	Horizontal
6	17020.726	34.89	41.71	-36.31	-54.97	-40.00	14.97	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7342.9922	45.76	36.21	-45.07	-58.36	-40.00	18.36	Vertical
2	8343.5422	42.43	36.17	-43.59	-60.25	-40.00	20.25	Vertical
3	9247.4874	41.30	36.67	-42.28	-59.57	-40.00	19.57	Vertical
4	11049.6275	37.44	39.61	-39.26	-57.47	-40.00	17.47	Vertical
5	14719.461	36.30	41.57	-37.29	-54.68	-40.00	14.68	Vertical
6	17030.5015	35.23	41.76	-36.36	-54.63	-40.00	14.63	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	8.80	0.002428	PASS
Band48	20MHz	QPSK	55990	100RB#0	VN	NT	13.30	0.003669	PASS
Band48	20MHz	QPSK	55990	100RB#0	VH	NT	6.30	0.001738	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band48	20MHz	QPSK	55990	100RB#0	NV	-30	9.10	0.002510	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-20	3.80	0.001048	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-10	3.40	0.000932	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	0	7.20	0.001986	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	10	4.20	0.001159	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	20	3.20	0.000883	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	30	2.10	0.000579	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	40	6.00	0.001655	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	50	2.00	0.000552	PASS

---End of Attachment---



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