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Appendix B.14

LTE Band 38



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.48	27.48	33	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.57	27.57	33	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.55	27.55	33	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.60	26.6	33	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.43	27.43	33	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.49	27.49	33	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.55	27.55	33	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.53	26.53	33	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.60	27.6	33	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.64	27.64	33	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.67	27.67	33	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.66	26.66	33	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.57	26.57	33	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.60	26.6	33	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.61	26.61	33	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.60	25.6	33	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.47	26.47	33	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.54	26.54	33	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.60	26.6	33	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.53	25.53	33	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.66	26.66	33	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.70	26.7	33	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.72	26.72	33	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.64	25.64	33	PASS
Band38	5MHz	64QAM	37775	1RB#0	21.16	25.16	33	PASS
Band38	5MHz	64QAM	37775	1RB#12	21.18	25.18	33	PASS



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Band38	5MHz	64QAM	37775	1RB#24	21.21	25.21	33	PASS
Band38	5MHz	64QAM	37775	25RB#0	20.64	24.64	33	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.07	25.07	33	PASS
Band38	5MHz	64QAM	38000	1RB#12	21.14	25.14	33	PASS
Band38	5MHz	64QAM	38000	1RB#24	21.21	25.21	33	PASS
Band38	5MHz	64QAM	38000	25RB#0	20.56	24.56	33	PASS
Band38	5MHz	64QAM	38225	1RB#0	21.25	25.25	33	PASS
Band38	5MHz	64QAM	38225	1RB#12	21.29	25.29	33	PASS
Band38	5MHz	64QAM	38225	1RB#24	21.33	25.33	33	PASS
Band38	5MHz	64QAM	38225	25RB#0	20.71	24.71	33	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.57	27.57	33	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.61	27.61	33	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.53	27.53	33	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.54	26.54	33	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.40	27.4	33	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.52	27.52	33	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.58	27.58	33	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.56	26.56	33	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.59	27.59	33	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.59	27.59	33	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.70	27.7	33	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.65	26.65	33	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.59	26.59	33	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.64	26.64	33	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.56	26.56	33	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.56	25.56	33	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.48	26.48	33	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.54	26.54	33	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.63	26.63	33	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.57	25.57	33	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.67	26.67	33	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.64	26.64	33	PASS



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Band38	10MHz	16QAM	38200	1RB#49	22.74	26.74	33	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.67	25.67	33	PASS
Band38	10MHz	64QAM	37800	1RB#0	21.21	25.21	33	PASS
Band38	10MHz	64QAM	37800	1RB#24	21.23	25.23	33	PASS
Band38	10MHz	64QAM	37800	1RB#49	21.17	25.17	33	PASS
Band38	10MHz	64QAM	37800	50RB#0	20.53	24.53	33	PASS
Band38	10MHz	64QAM	38000	1RB#0	21.09	25.09	33	PASS
Band38	10MHz	64QAM	38000	1RB#24	21.10	25.1	33	PASS
Band38	10MHz	64QAM	38000	1RB#49	21.24	25.24	33	PASS
Band38	10MHz	64QAM	38000	50RB#0	20.54	24.54	33	PASS
Band38	10MHz	64QAM	38200	1RB#0	21.26	25.26	33	PASS
Band38	10MHz	64QAM	38200	1RB#24	21.23	25.23	33	PASS
Band38	10MHz	64QAM	38200	1RB#49	21.32	25.32	33	PASS
Band38	10MHz	64QAM	38200	50RB#0	20.65	24.65	33	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.61	27.61	33	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.51	27.51	33	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.51	27.51	33	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.55	26.55	33	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.43	27.43	33	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.50	27.5	33	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.61	27.61	33	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.55	26.55	33	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.80	27.8	33	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.58	27.58	33	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.69	27.69	33	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.76	26.76	33	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.64	26.64	33	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.55	26.55	33	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.57	26.57	33	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.55	25.55	33	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.50	26.5	33	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.56	26.56	33	PASS



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Band38	15MHz	16QAM	38000	1RB#74	22.68	26.68	33	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.56	25.56	33	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.84	26.84	33	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.65	26.65	33	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.75	26.75	33	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.76	25.76	33	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.22	25.22	33	PASS
Band38	15MHz	64QAM	37825	1RB#38	21.12	25.12	33	PASS
Band38	15MHz	64QAM	37825	1RB#74	21.17	25.17	33	PASS
Band38	15MHz	64QAM	37825	75RB#0	20.53	24.53	33	PASS
Band38	15MHz	64QAM	38000	1RB#0	21.11	25.11	33	PASS
Band38	15MHz	64QAM	38000	1RB#38	21.14	25.14	33	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.28	25.28	33	PASS
Band38	15MHz	64QAM	38000	75RB#0	20.57	24.57	33	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.43	25.43	33	PASS
Band38	15MHz	64QAM	38175	1RB#38	21.25	25.25	33	PASS
Band38	15MHz	64QAM	38175	1RB#74	21.35	25.35	33	PASS
Band38	15MHz	64QAM	38175	75RB#0	20.76	24.76	33	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.63	27.63	33	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.49	27.49	33	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.39	27.39	33	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.56	26.56	33	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.58	27.58	33	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.48	27.48	33	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.57	27.57	33	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.57	26.57	33	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.81	27.81	33	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.60	27.6	33	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.64	27.64	33	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.79	26.79	33	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.69	26.69	33	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.55	26.55	33	PASS



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Band38	20MHz	16QAM	37850	100RB#0	21.59	25.59	33	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.64	26.64	33	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.54	26.54	33	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.63	26.63	33	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.59	25.59	33	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.84	26.84	33	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.66	26.66	33	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.70	26.7	33	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.80	25.8	33	PASS
Band38	20MHz	64QAM	37850	1RB#0	21.30	25.3	33	PASS
Band38	20MHz	64QAM	37850	1RB#49	21.11	25.11	33	PASS
Band38	20MHz	64QAM	37850	1RB#99	21.02	25.02	33	PASS
Band38	20MHz	64QAM	37850	100RB#0	20.56	24.56	33	PASS
Band38	20MHz	64QAM	38000	1RB#0	21.22	25.22	33	PASS
Band38	20MHz	64QAM	38000	1RB#49	21.13	25.13	33	PASS
Band38	20MHz	64QAM	38000	1RB#99	21.23	25.23	33	PASS
Band38	20MHz	64QAM	38000	100RB#0	20.58	24.58	33	PASS
Band38	20MHz	64QAM	38150	1RB#0	21.45	25.45	33	PASS
Band38	20MHz	64QAM	38150	1RB#49	21.23	25.23	33	PASS
Band38	20MHz	64QAM	38150	1RB#99	21.29	25.29	33	PASS
Band38	20MHz	64QAM	38150	100RB#0	20.79	24.79	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	7.38	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	7.48	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	7.48	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	8.22	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	8.22	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	8.22	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	8.46	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	8.32	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	8.42	13	PASS



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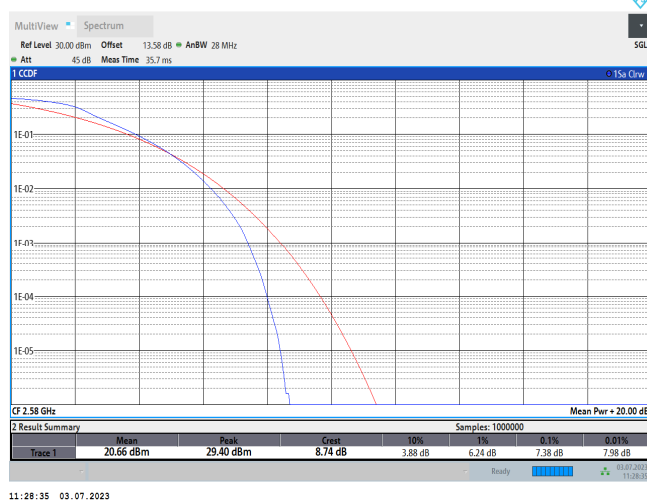
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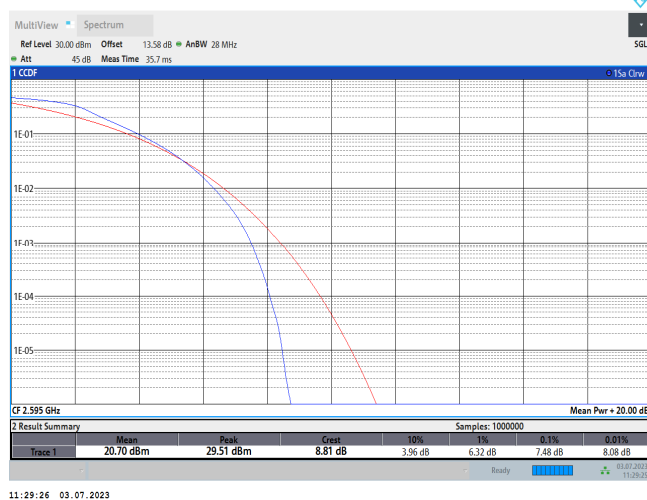
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Test Graphs

Band38-20MHz-QPSK-37850-100RB#0



Band38-20MHz-QPSK-38000-100RB#0



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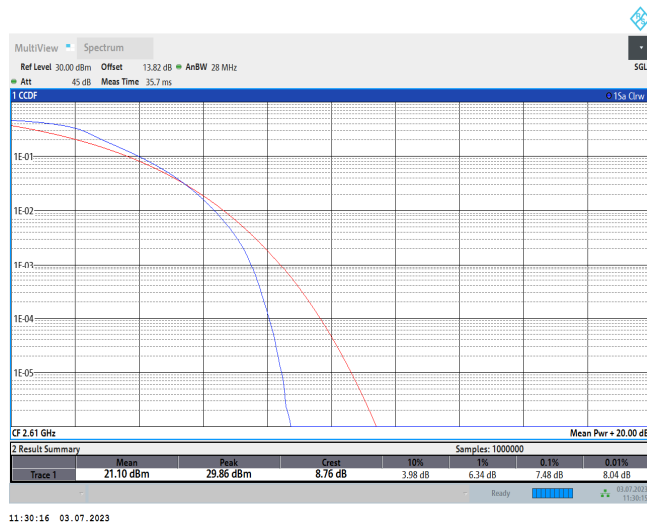
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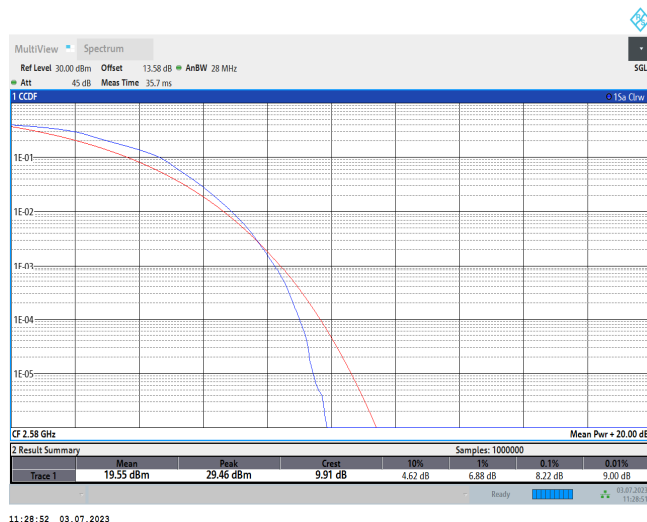
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Band38-20MHz-QPSK-38150-100RB#0



Band38-20MHz-16QAM-37850-100RB#0



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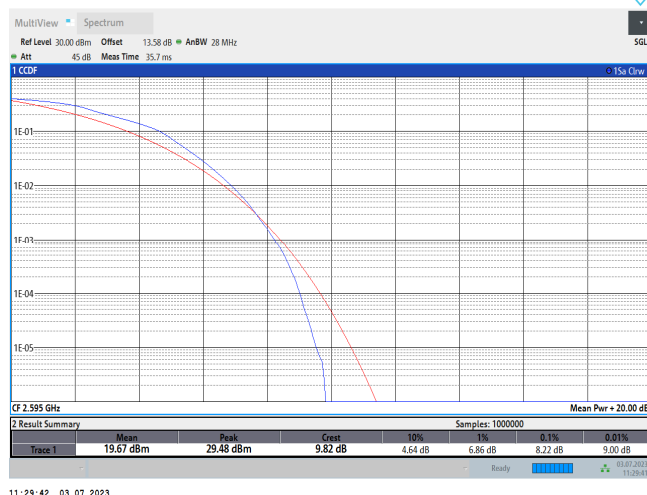
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Band38-20MHz-16QAM-38000-100RB#0



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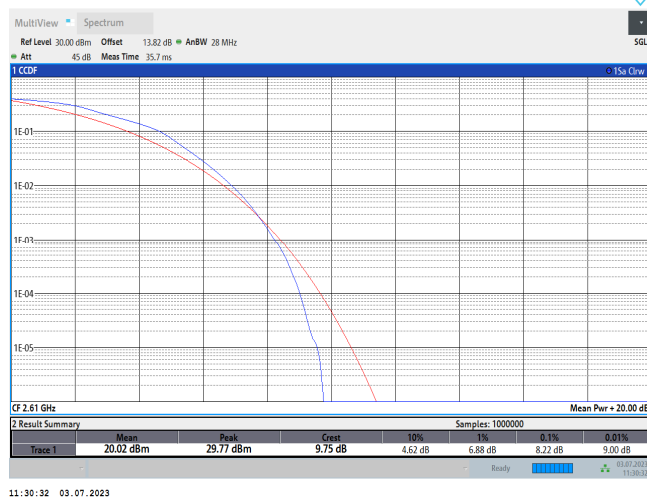
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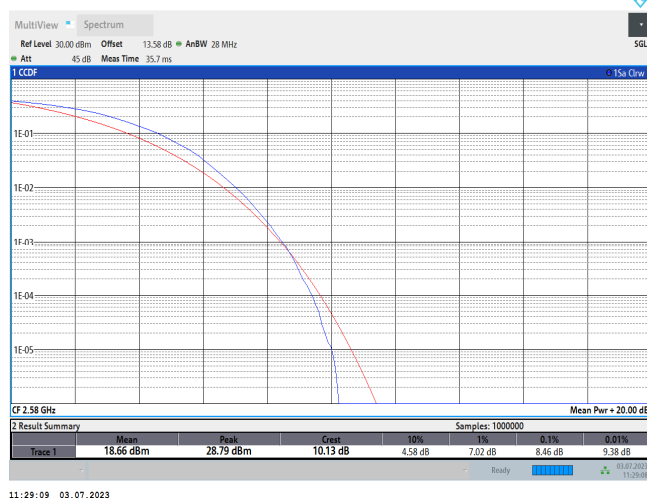
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Band38-20MHz-16QAM-38150-100RB#0



Band38-20MHz-64QAM-37850-100RB#0



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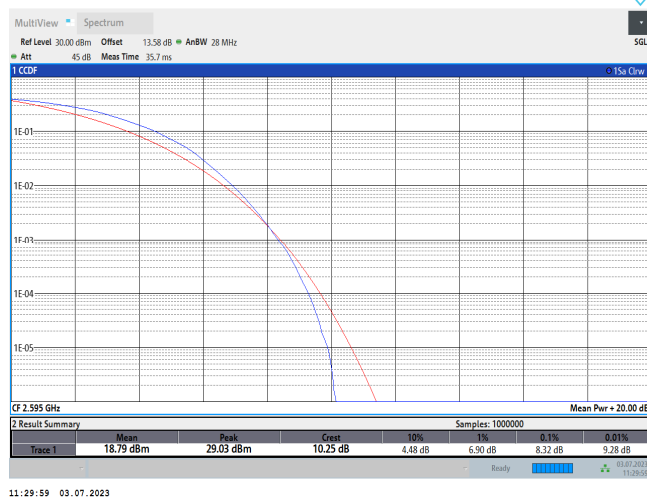
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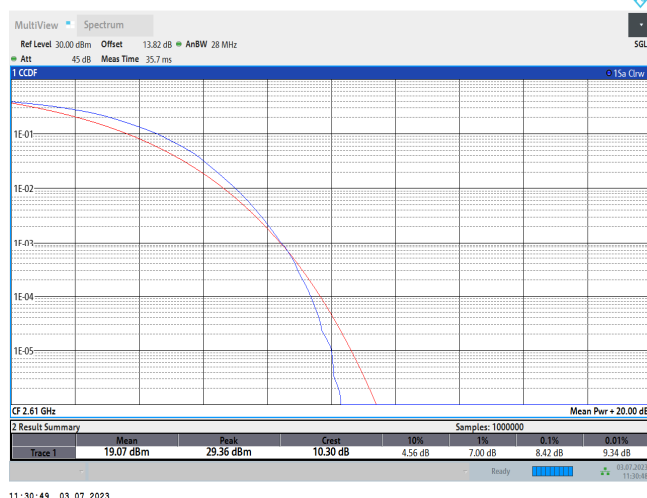
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Band38-20MHz-64QAM-38000-100RB#0



Band38-20MHz-64QAM-38150-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band38	20MHz	QPSK	38000	100RB#0	PASS	PASS
Band38	20MHz	16QAM	38000	100RB#0	PASS	PASS
Band38	20MHz	64QAM	38000	100RB#0	PASS	PASS



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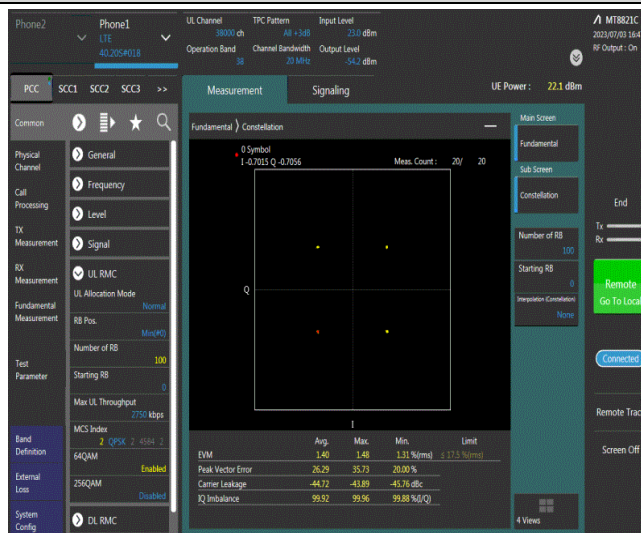
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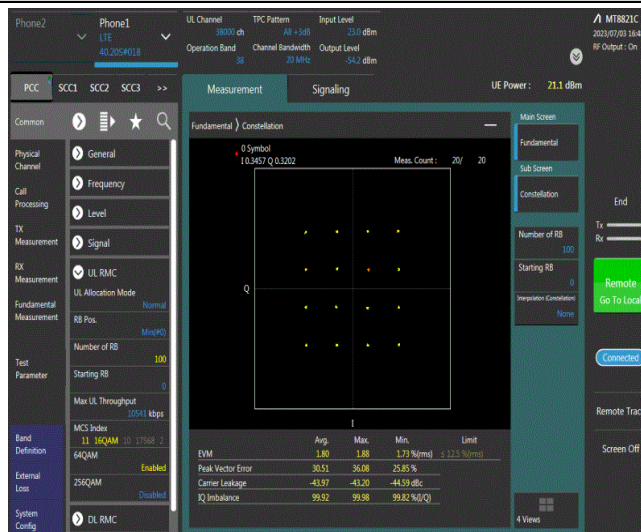
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Test Graphs

Band38-20MHz-QPSK-38000-100RB#0



Band38-20MHz-16QAM-38000-100RB#0

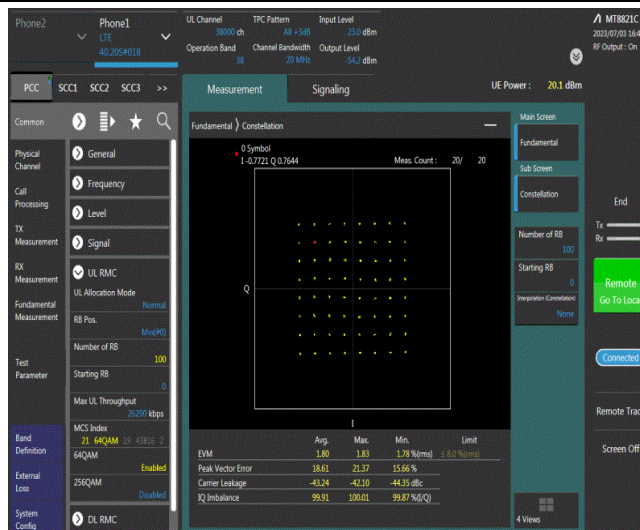


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.488	4.92	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.476	4.86	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.473	4.89	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.469	4.87	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.472	4.87	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.472	4.89	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.479	4.89	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.477	4.87	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.476	4.87	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.925	9.70	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.937	9.66	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.939	9.66	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.919	9.60	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.927	9.64	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.92	9.64	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.931	9.68	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.929	9.64	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.929	9.66	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.489	14.88	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.484	14.85	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.484	14.88	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.463	14.91	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.466	14.94	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.462	14.94	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.434	14.79	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.433	14.79	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.435	14.79	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.898	19.44	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.912	19.44	PASS



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Band38	20MHz	16QAM	37850	100RB#0	17.897	19.40	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.893	19.44	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.895	19.40	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.895	19.52	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.888	19.52	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.885	19.52	PASS



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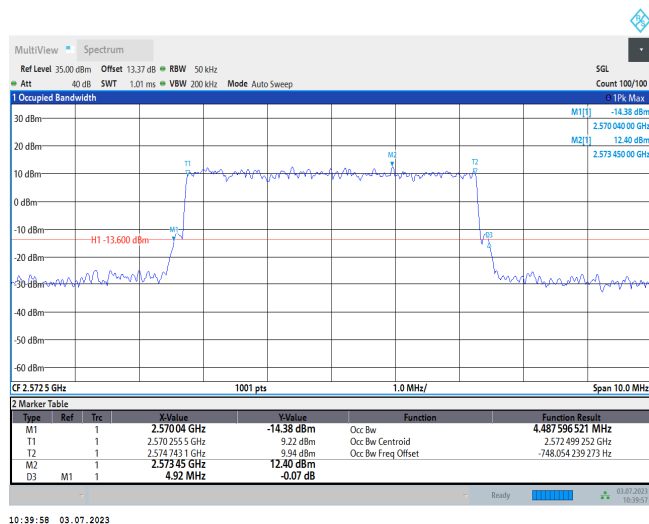
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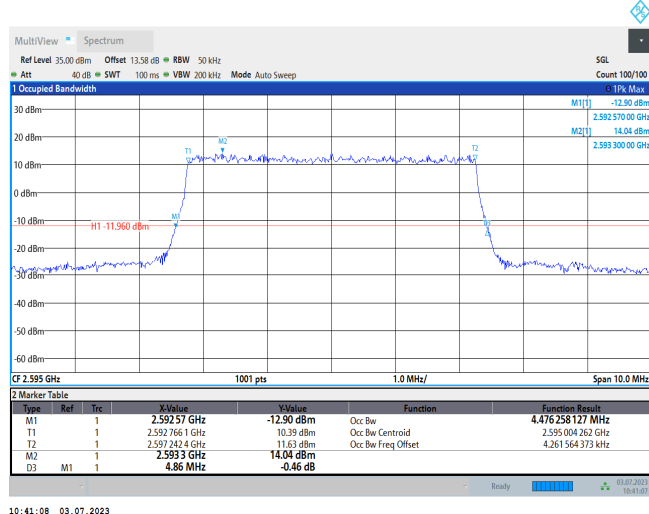
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Test Graphs

Band38-5MHz-QPSK-37775-25RB#0



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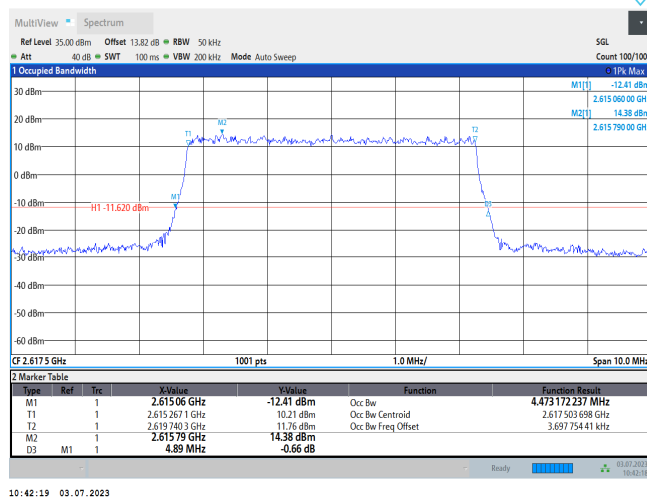
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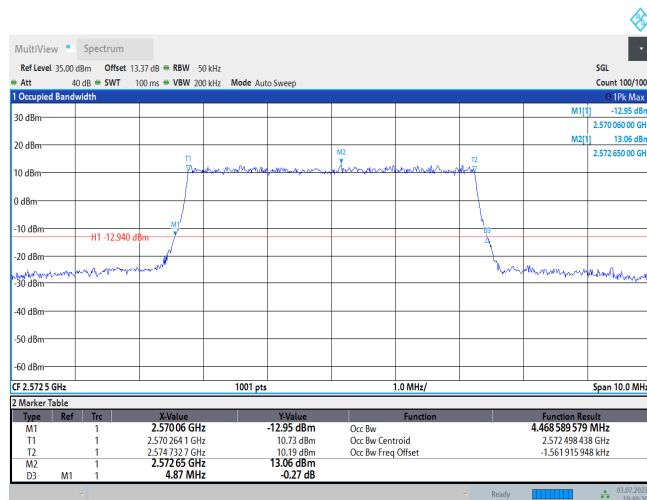
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Band38-5MHz-QPSK-38225-25RB#0



10:42:19 03.07.2023

Band38-5MHz-16QAM-37775-25RB#0



10:40:21 03.07.2023

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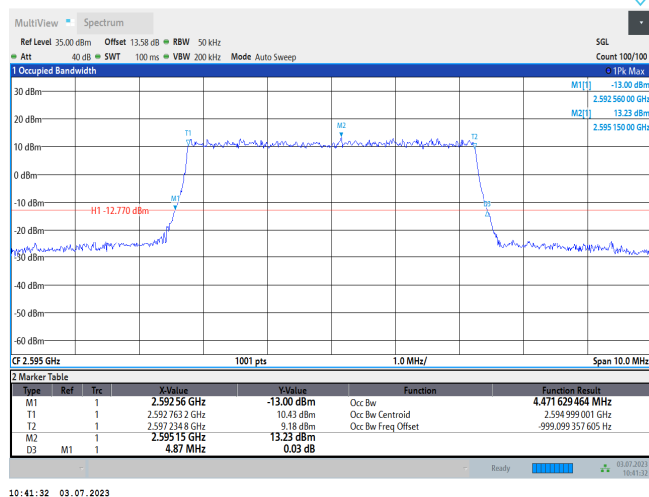
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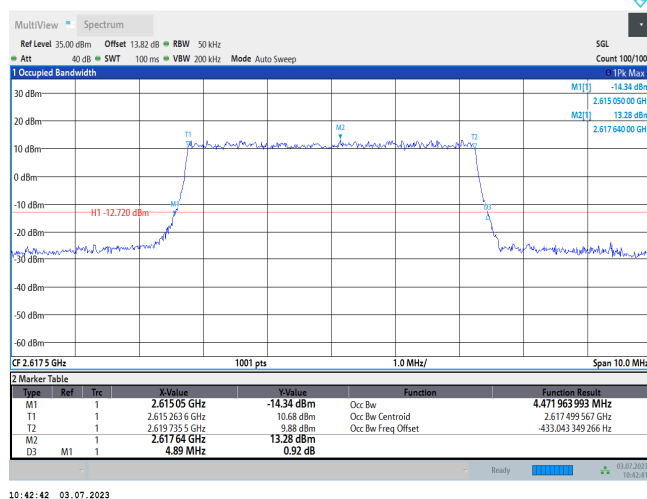
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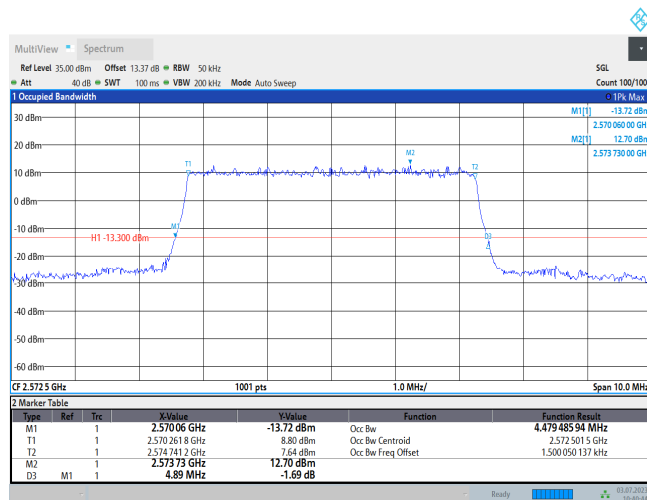
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Band38-5MHz-64QAM-37775-25RB#0



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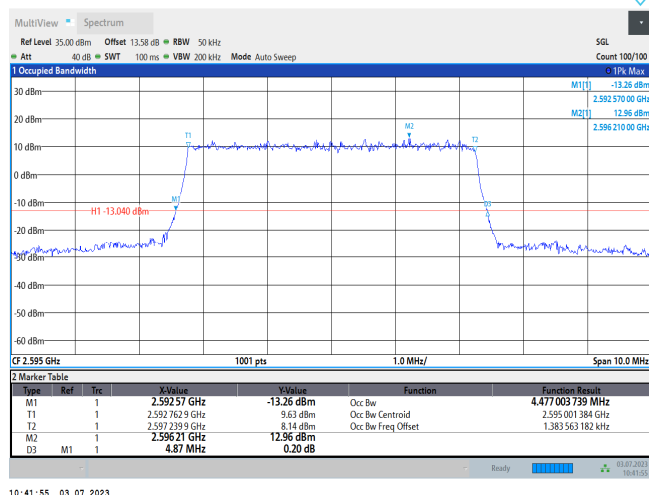
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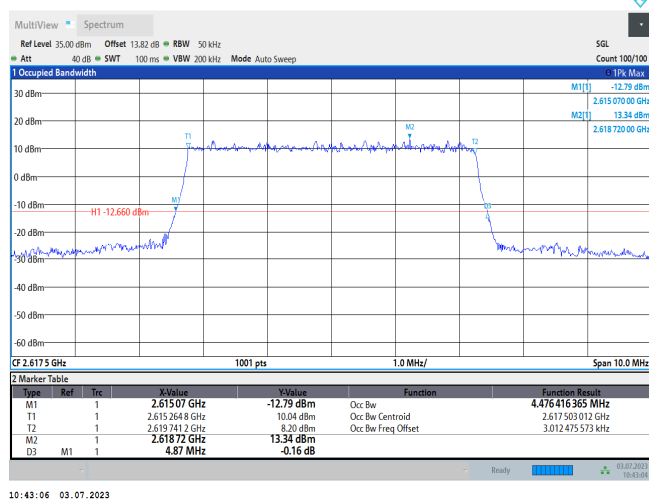
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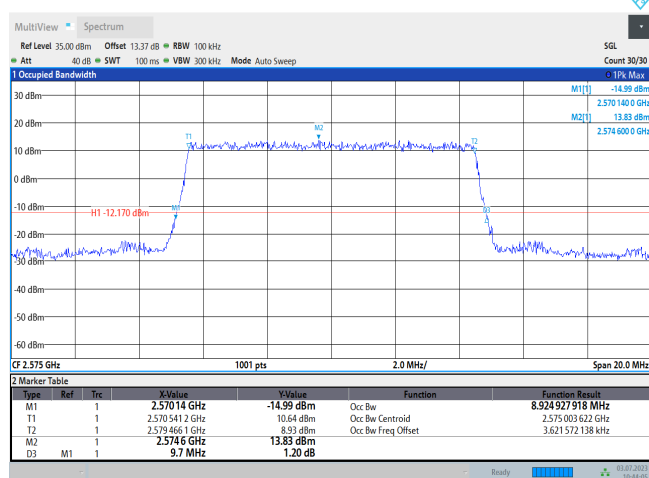
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Band38-10MHz-QPSK-37800-50RB#0



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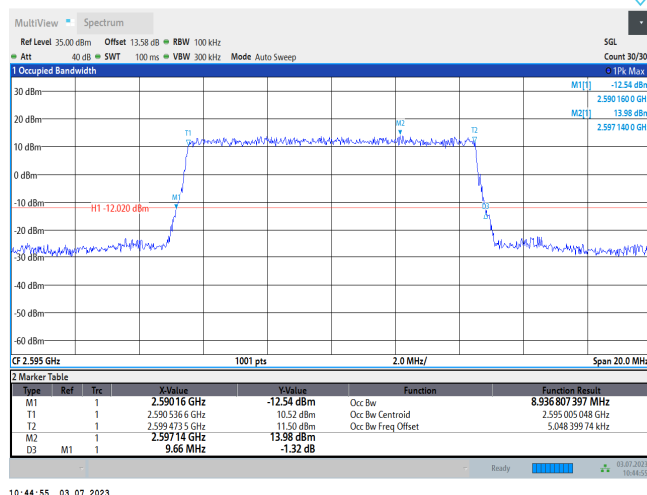
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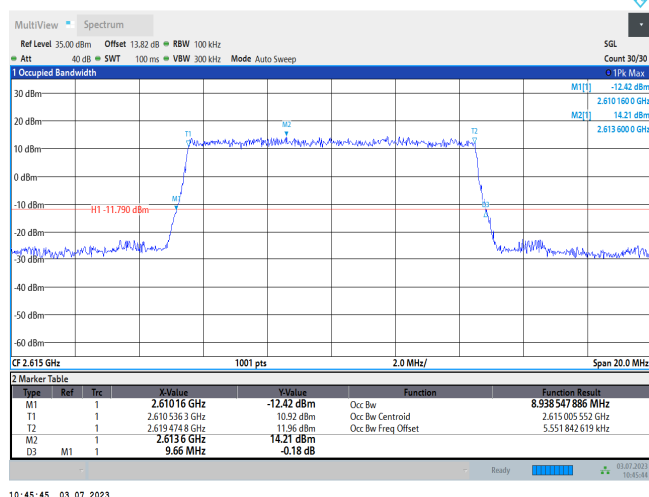
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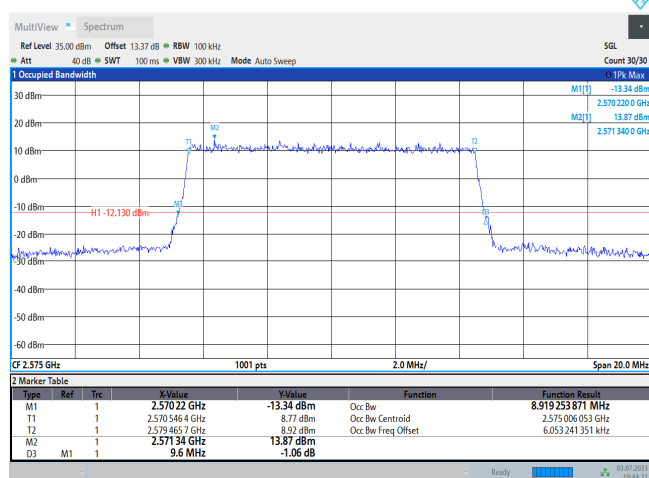
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Band38-10MHz-16QAM-37800-50RB#0



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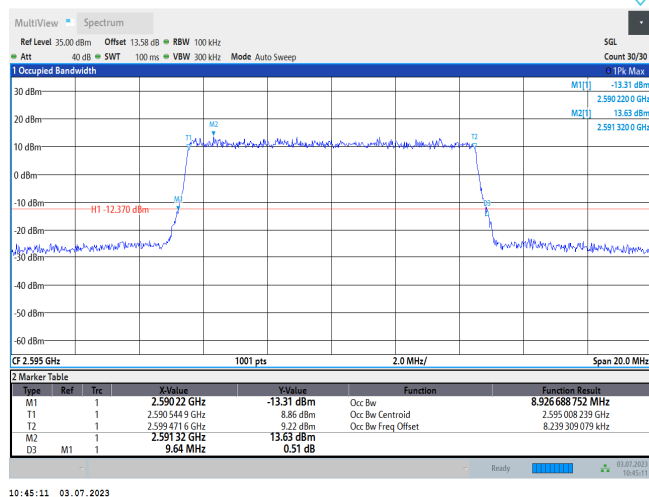
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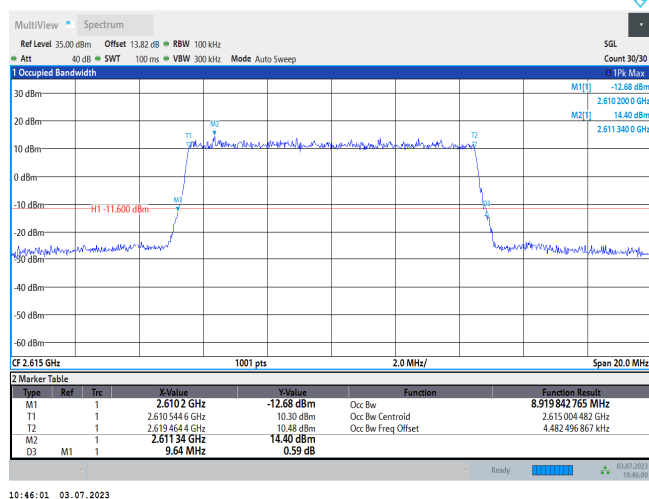
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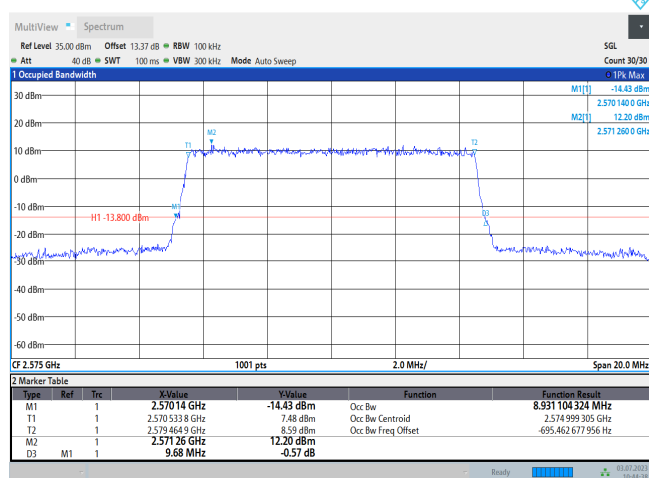
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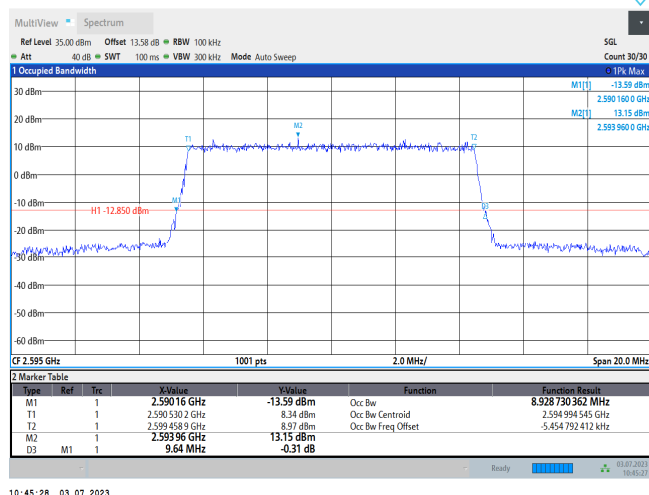
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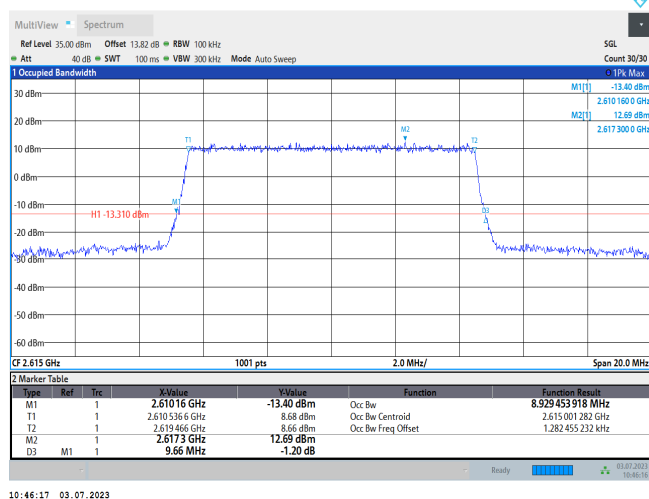
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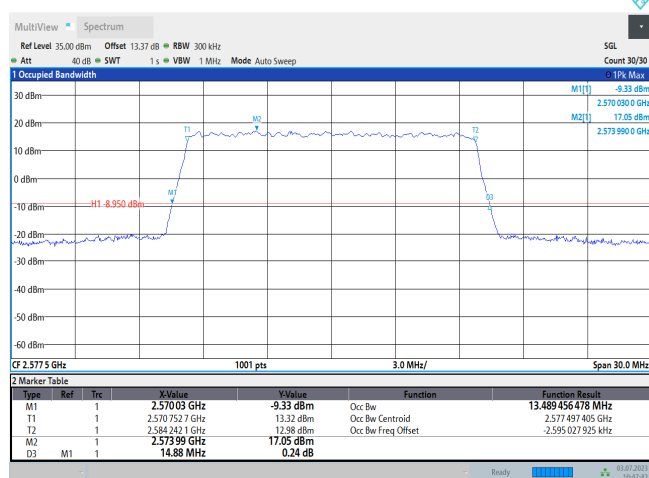
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Band38-15MHz-QPSK-37825-75RB#0



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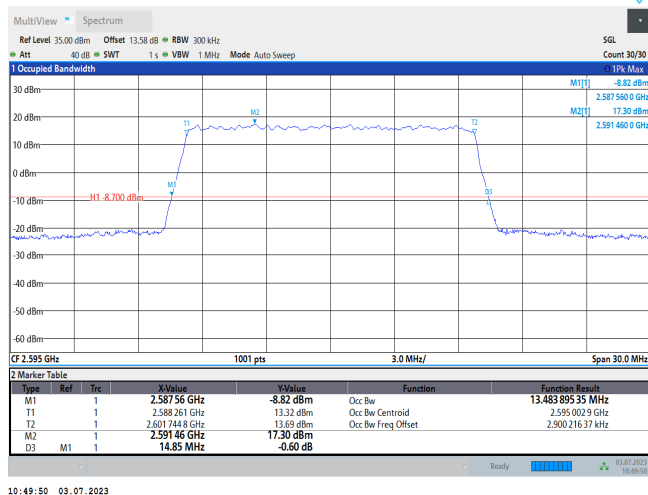
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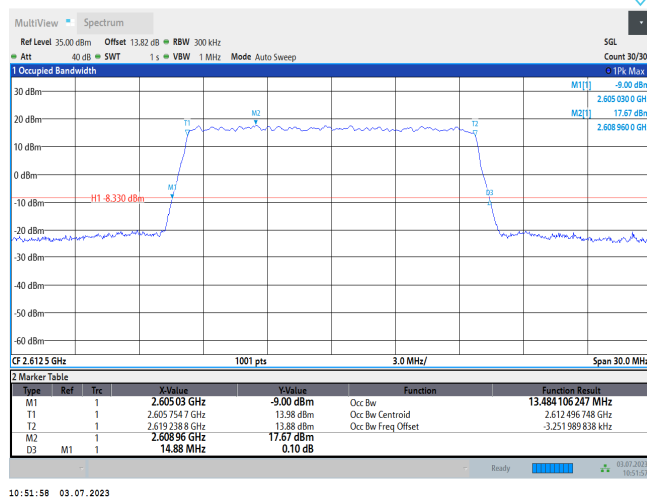
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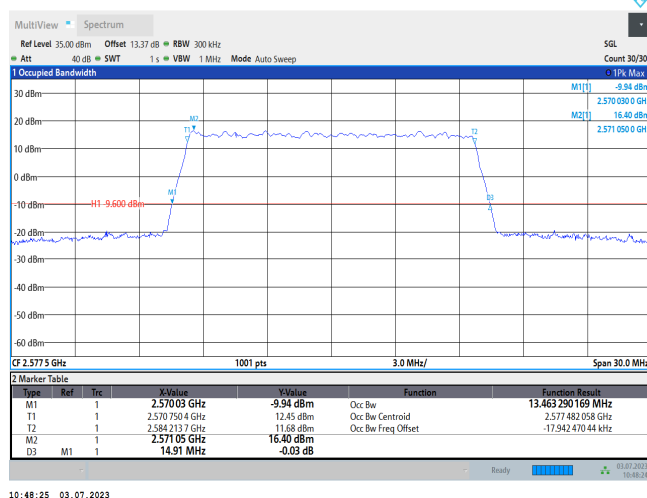
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Band38-15MHz-QPSK-38175-75RB#0



Band38-15MHz-16QAM-37825-75RB#0



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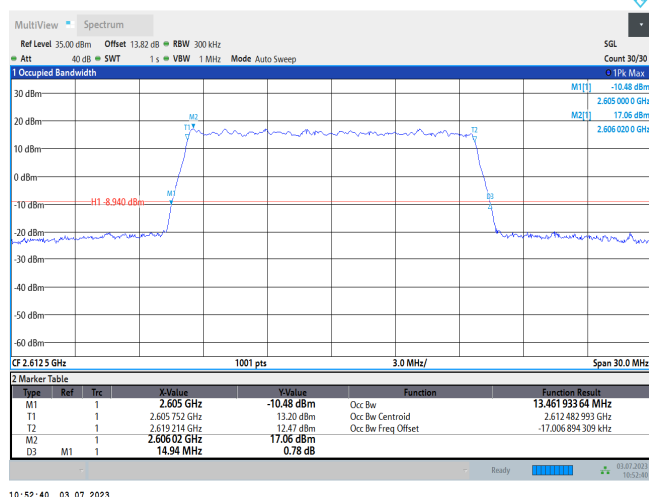
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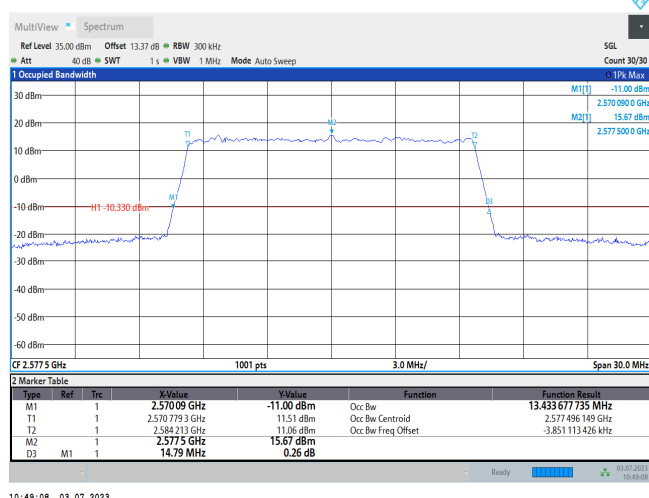
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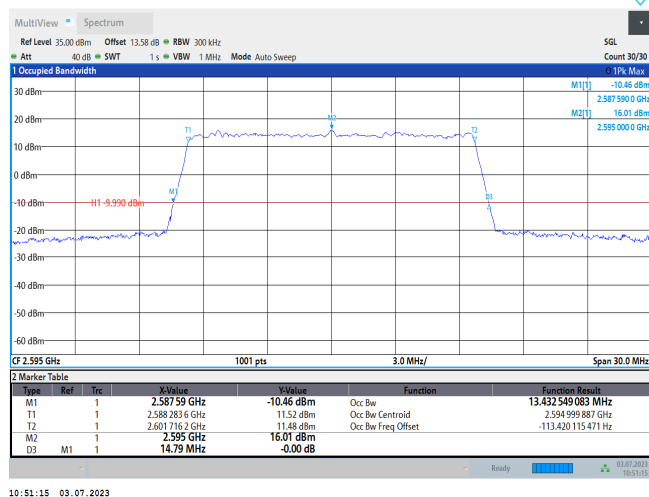
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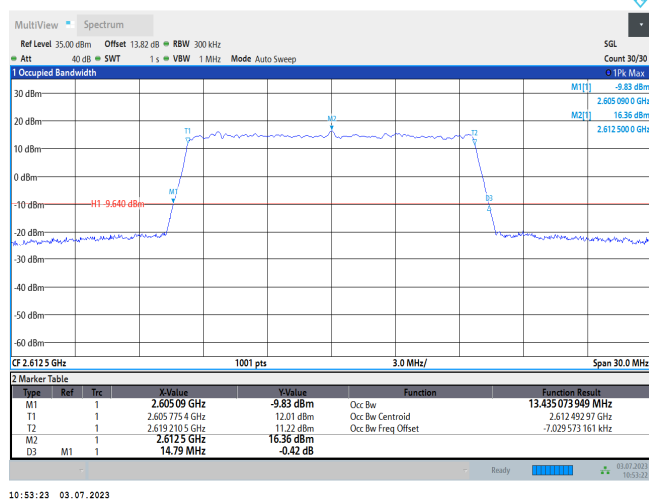
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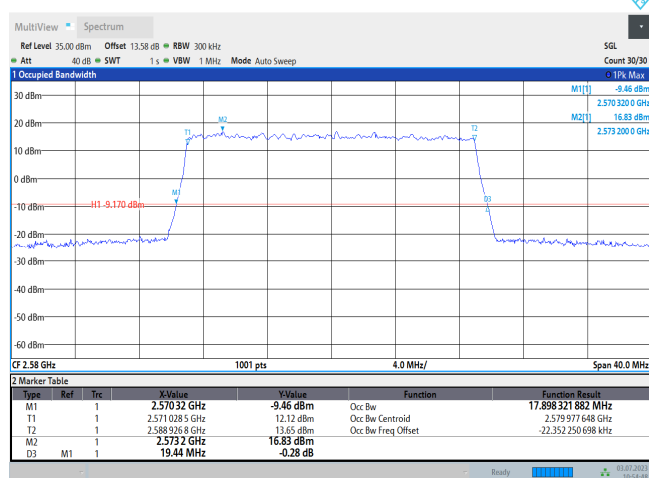
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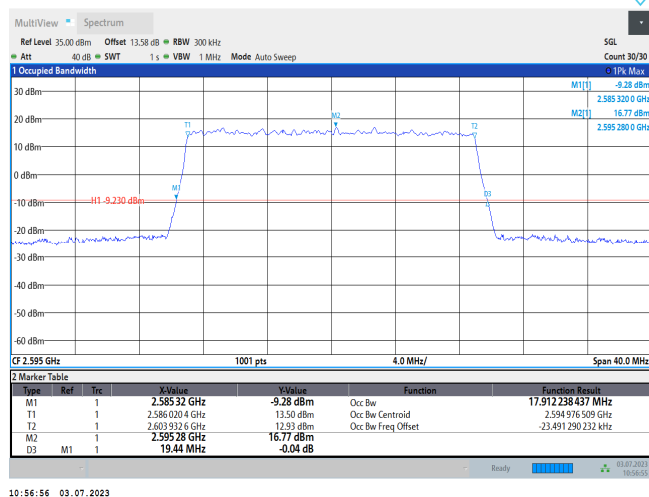
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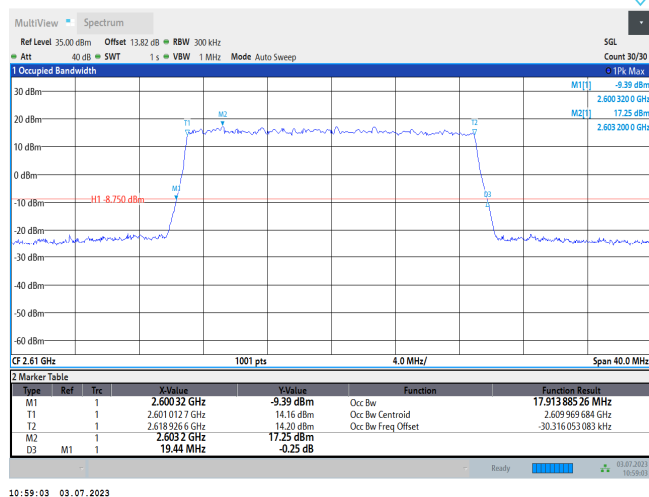
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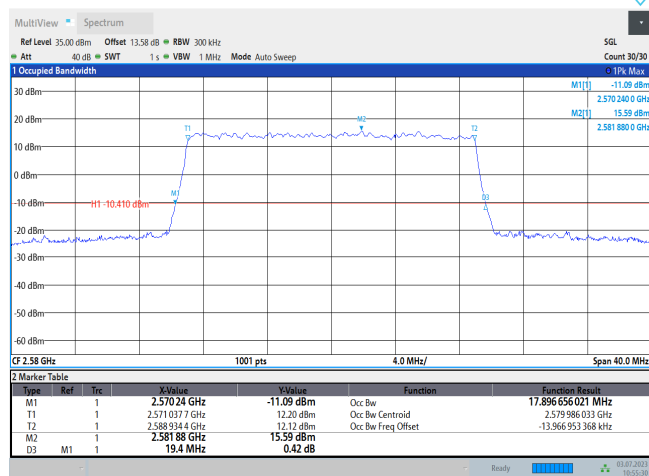
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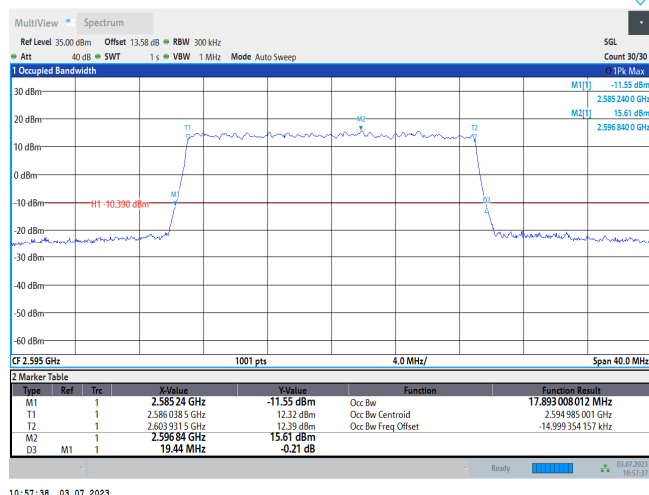
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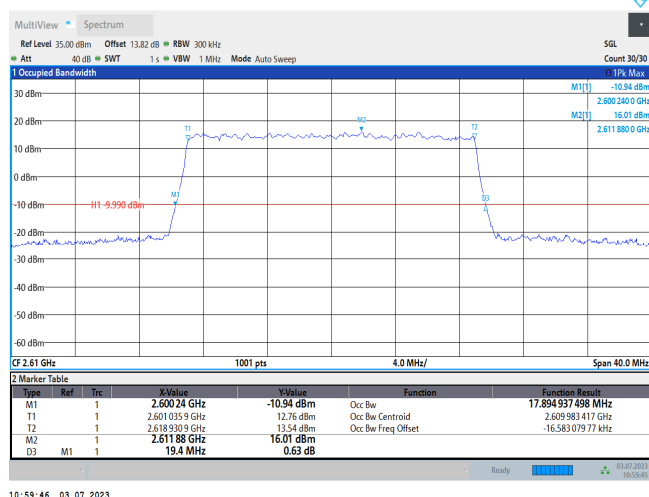
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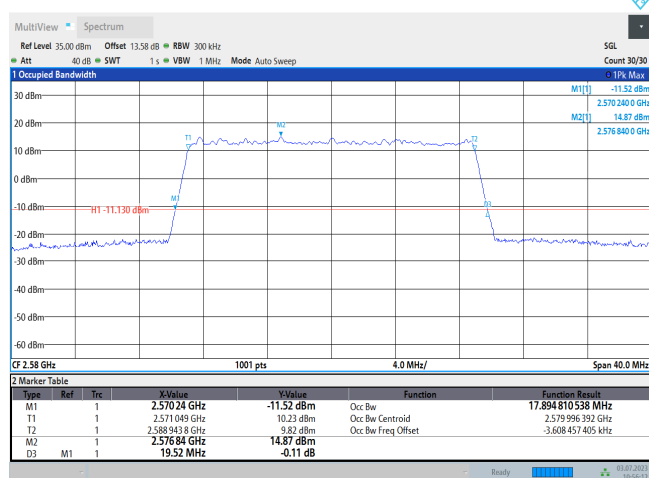
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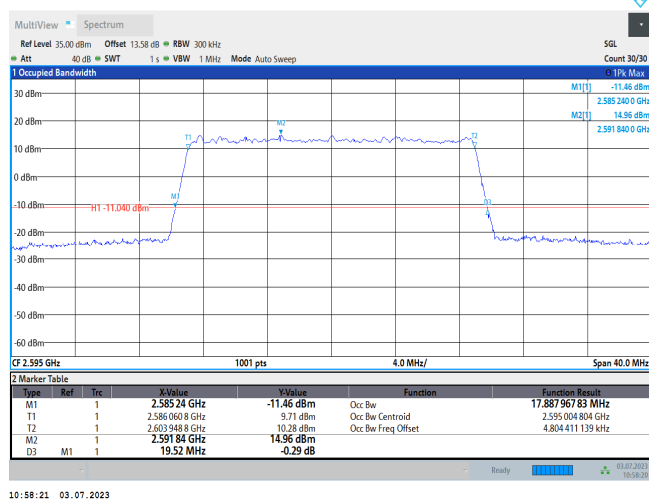
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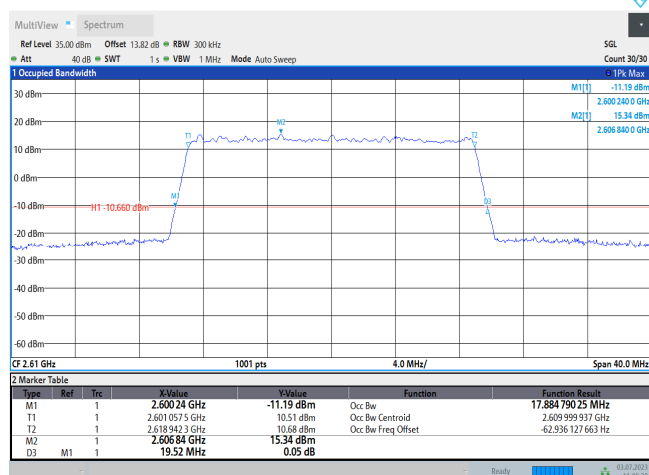
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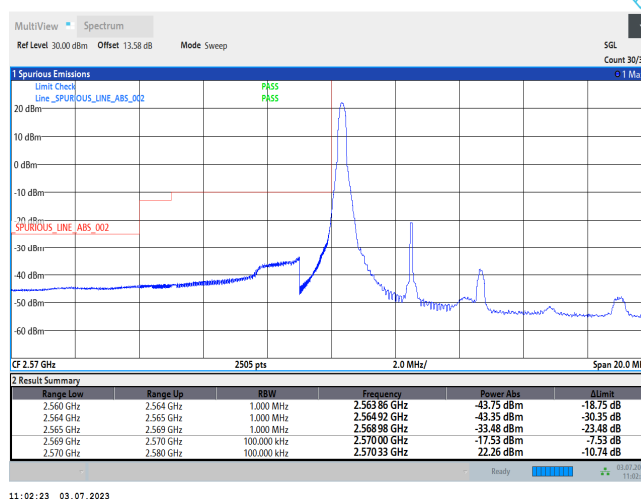
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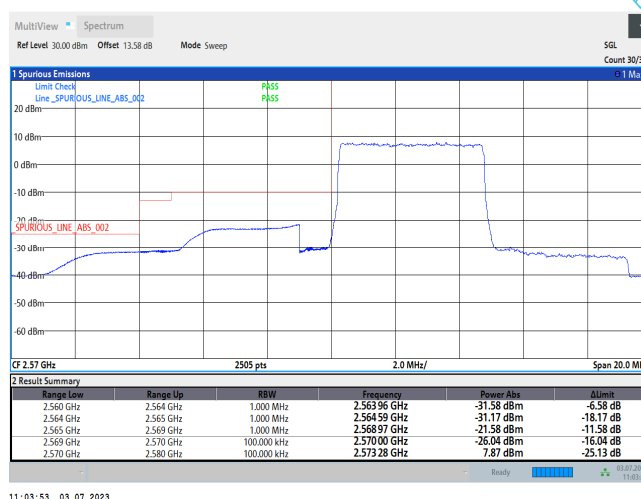
Test Graphs

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Band38-5MHz-QPSK-37775-25RB#0



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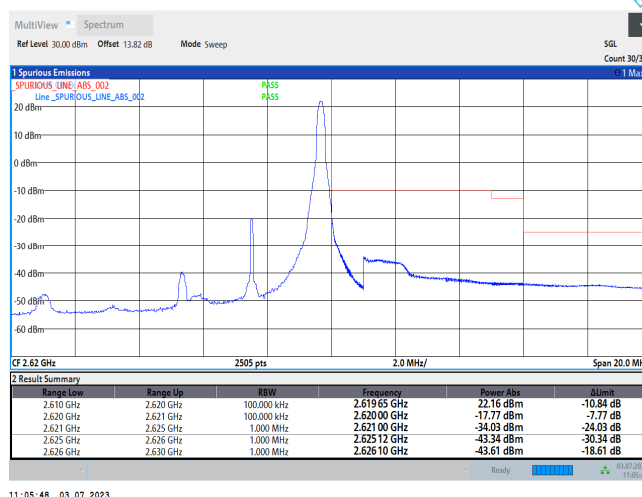
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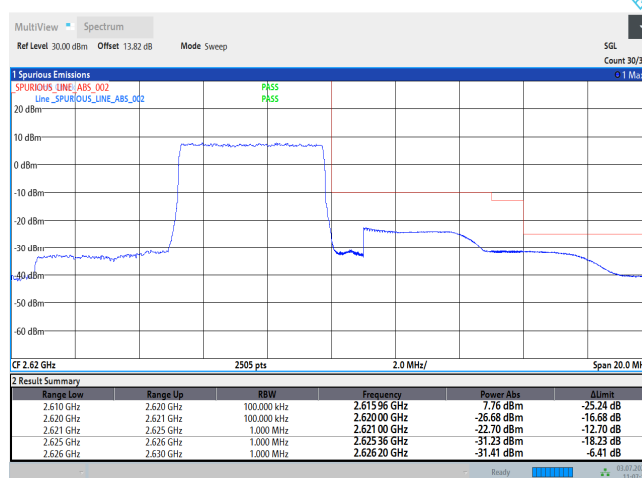
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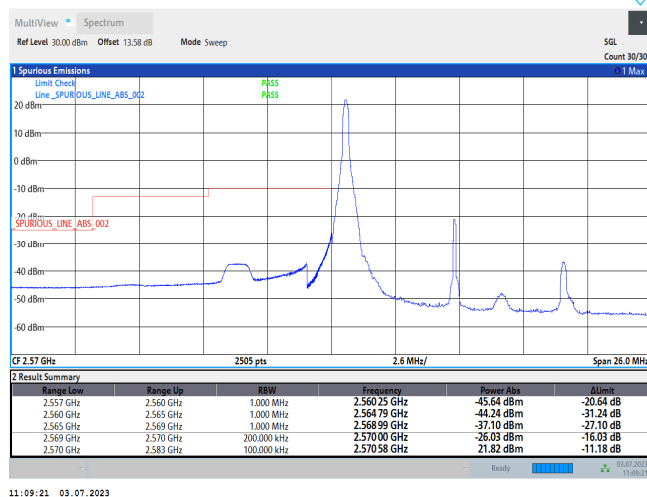
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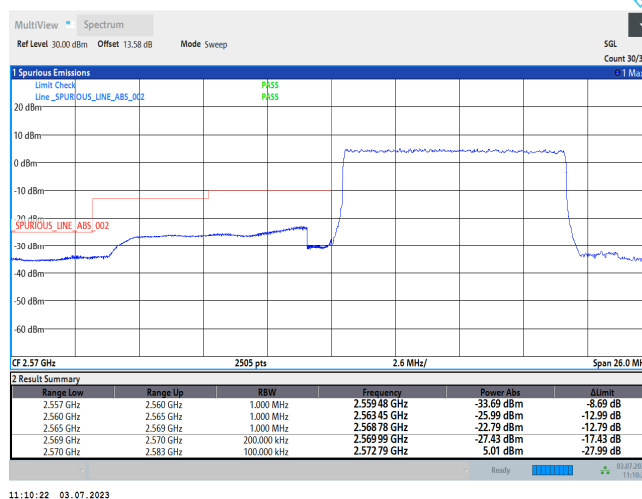
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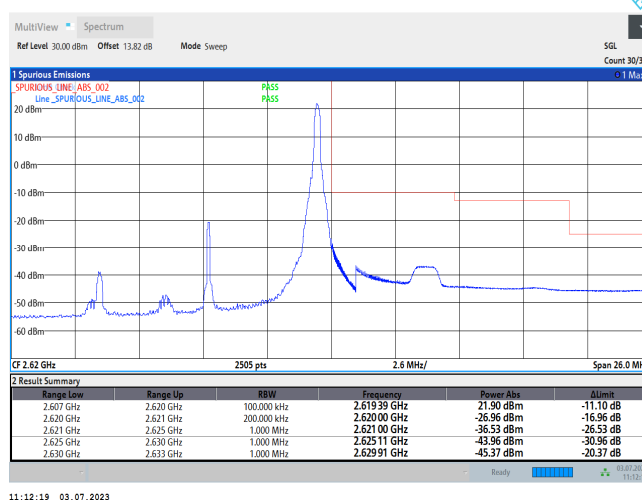
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Band38-10MHz-QPSK-37800-50RB#0



11:10:22 03.07.2023

Band38-10MHz-QPSK-38200-1RB#49



11:12:19 03.07.2023



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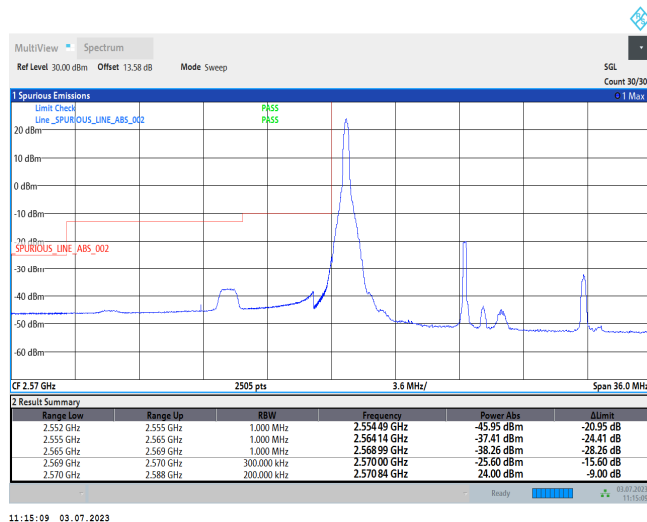
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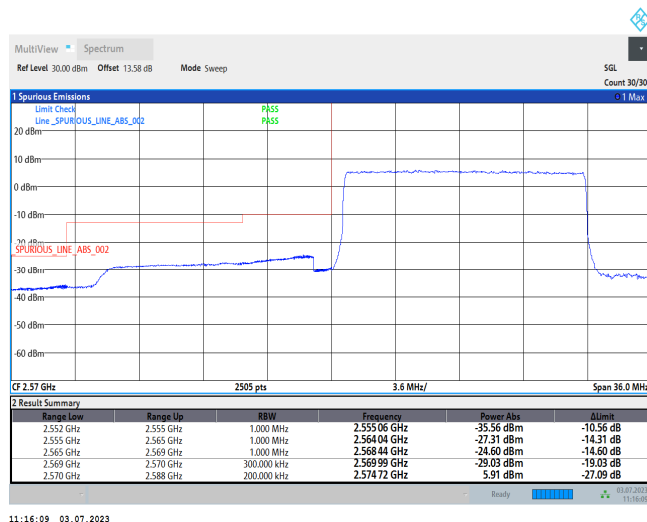
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Band38-15MHz-QPSK-37825-1RB#0



Band38-15MHz-QPSK-37825-75RB#0

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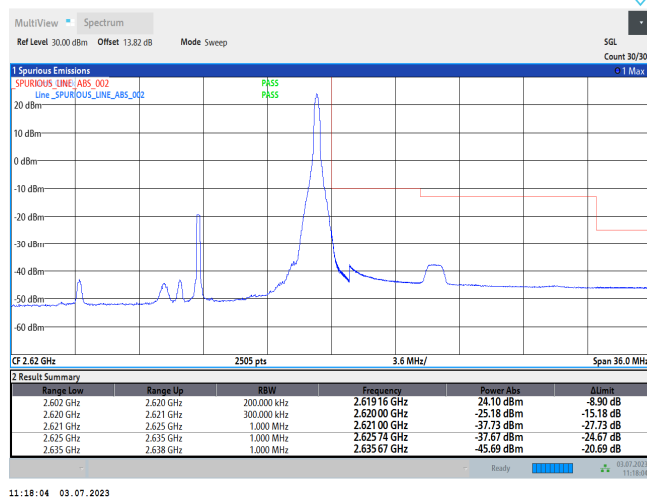
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Band38-15MHz-QPSK-38175-1RB#74



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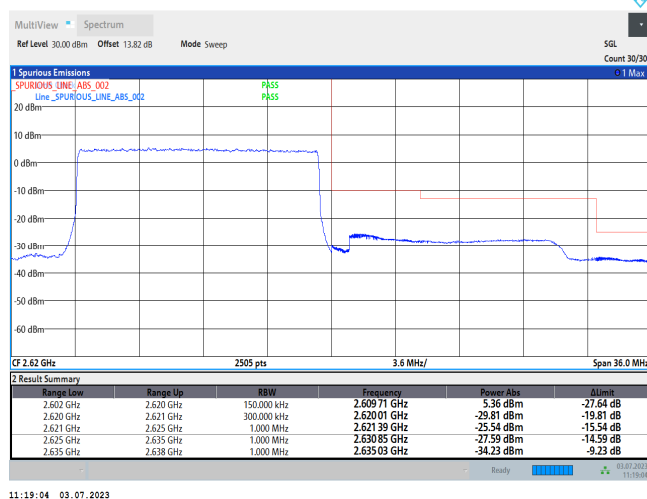
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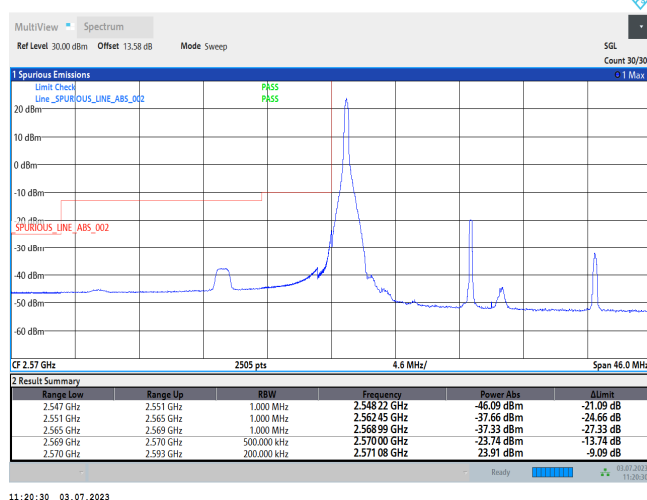
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Band38-15MHz-QPSK-38175-75RB#0



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Band38-20MHz-QPSK-37850-1RB#0



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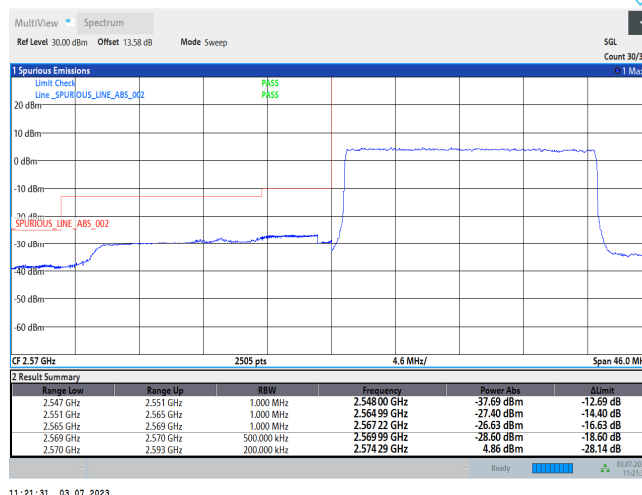
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Band38-20MHz-QPSK-37850-100RB#0



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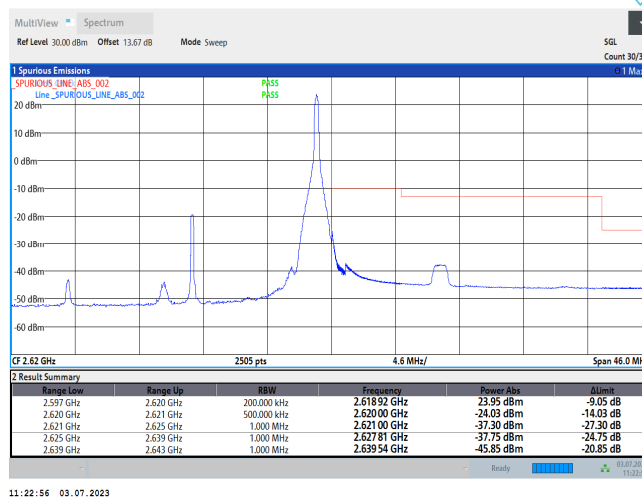
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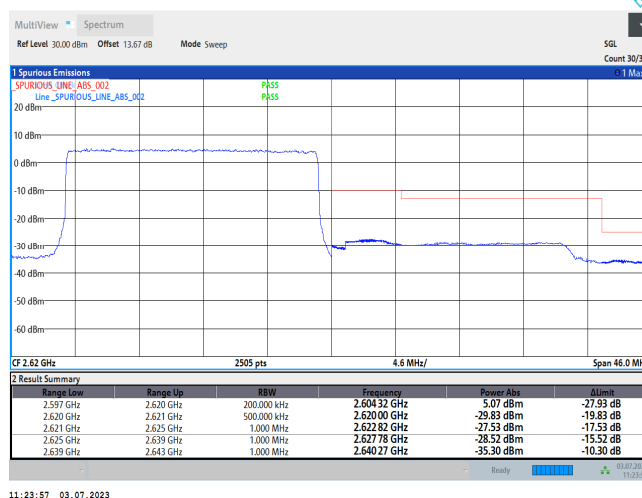
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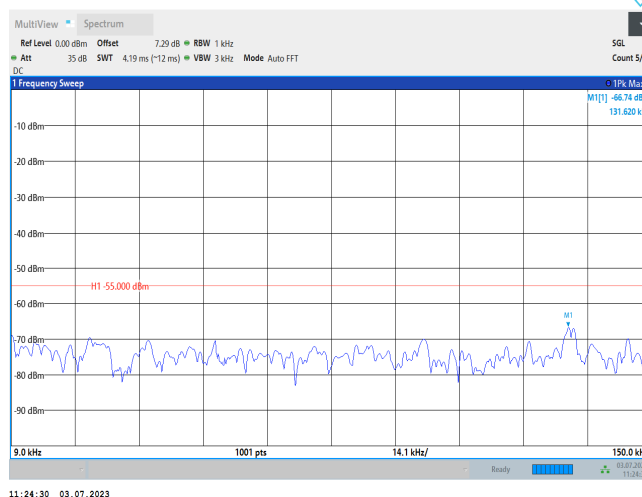
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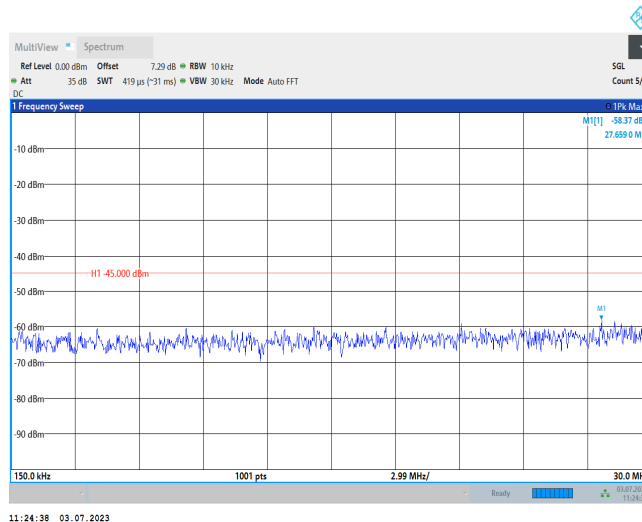
Conducted Spurious Emission

Test Graphs

Band38-20MHz-QPSK-37850-1RB#0-Range1:0.009~0.15MHz



Band38-20MHz-QPSK-37850-1RB#0-Range2:0.15~30MHz



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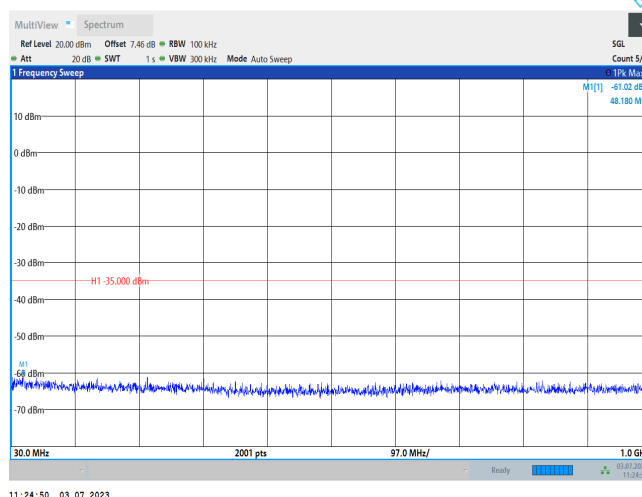
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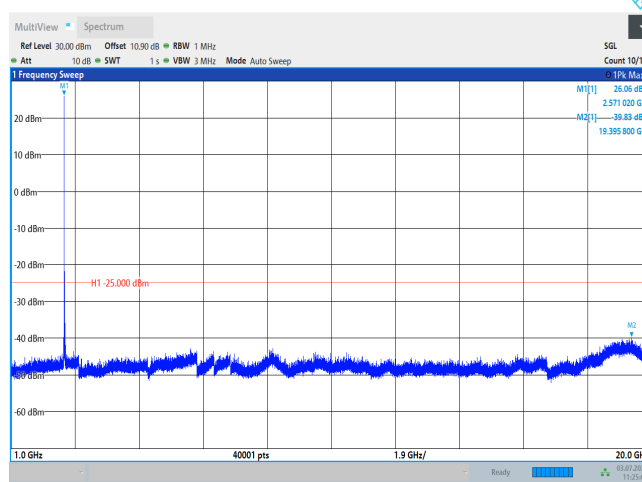
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



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Band38-20MHz-QPSK-37850-1RB#0-Range4:1000~20000MHz



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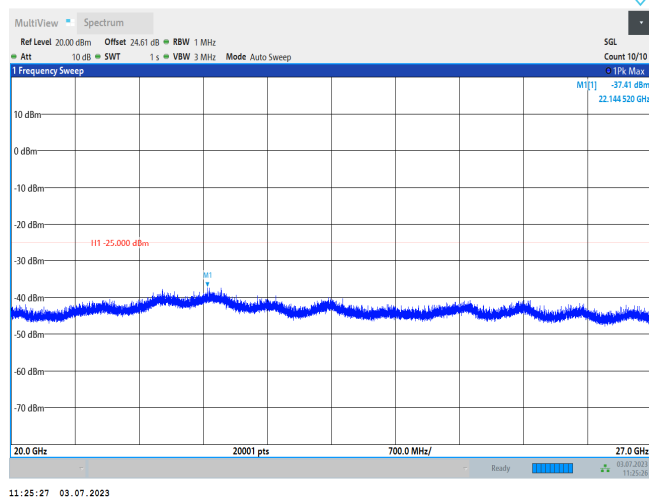


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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



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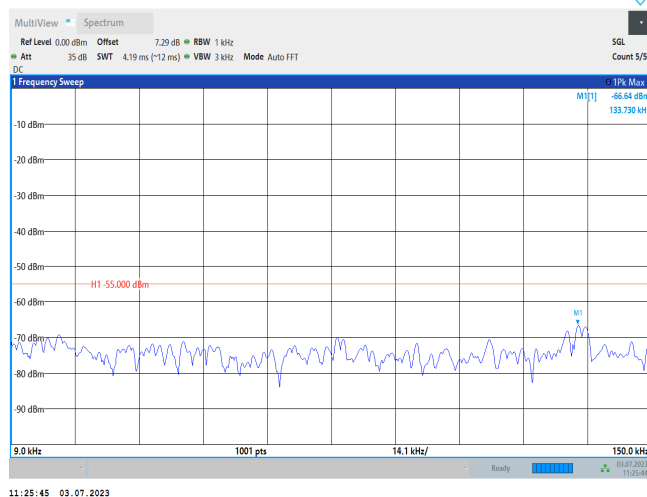
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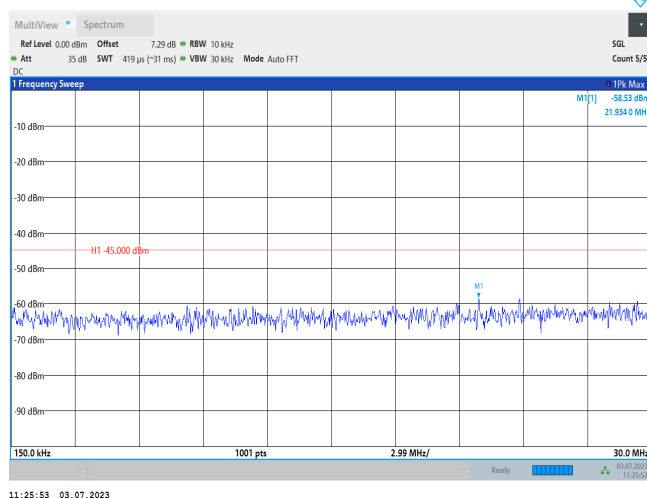
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Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



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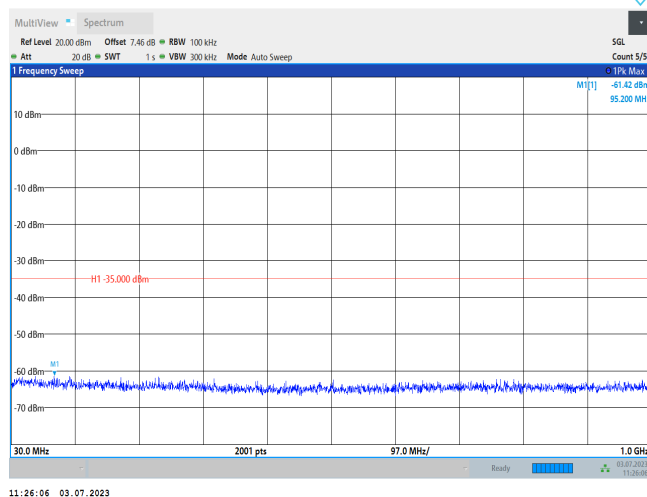


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Band38-20MHz-QPSK-38000-1RB#0-Range3:30~1000MHz



11:26:06 03.07.2023



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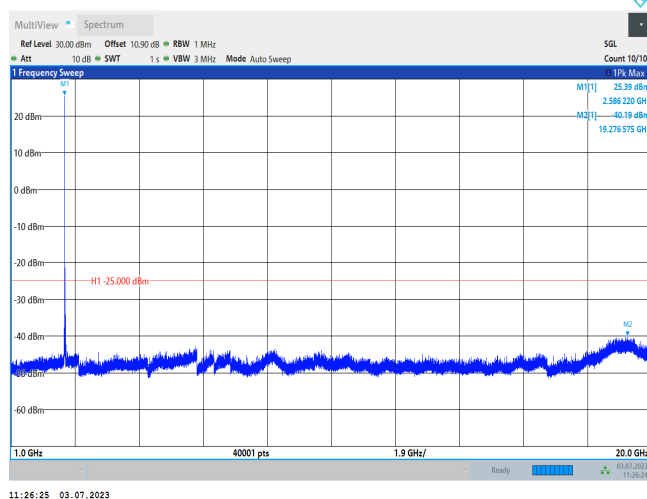
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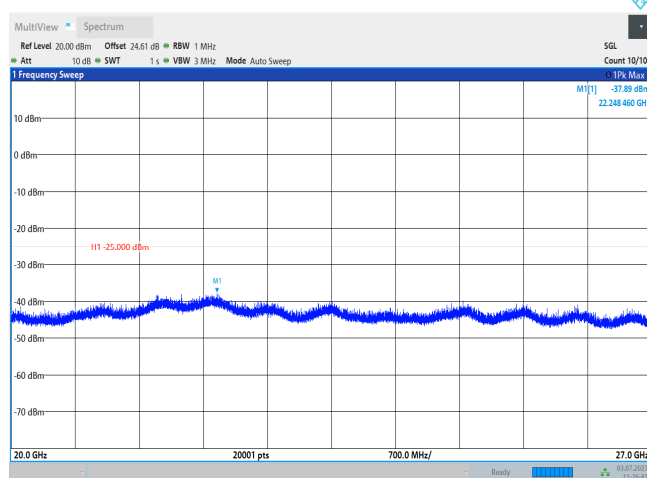
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



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Band38-20MHz-QPSK-38000-1RB#0-Range5:20000~27000MHz



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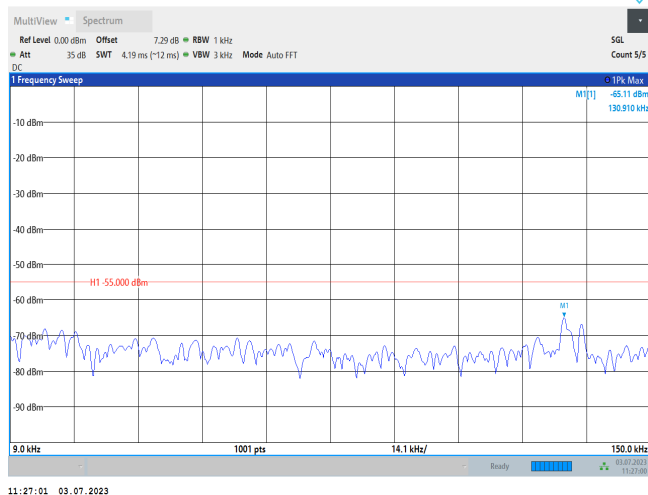
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



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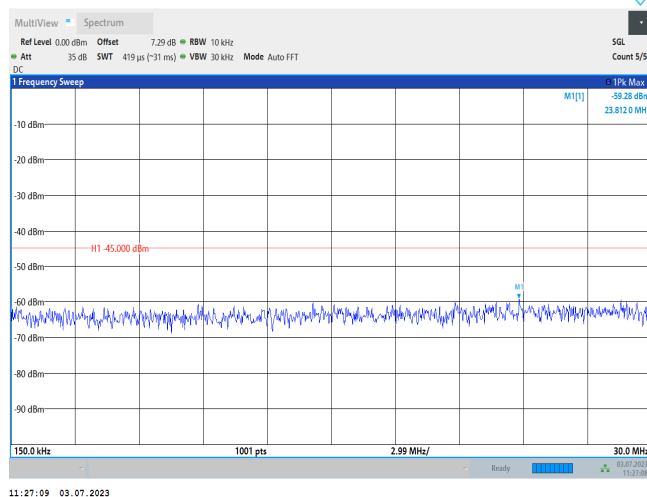
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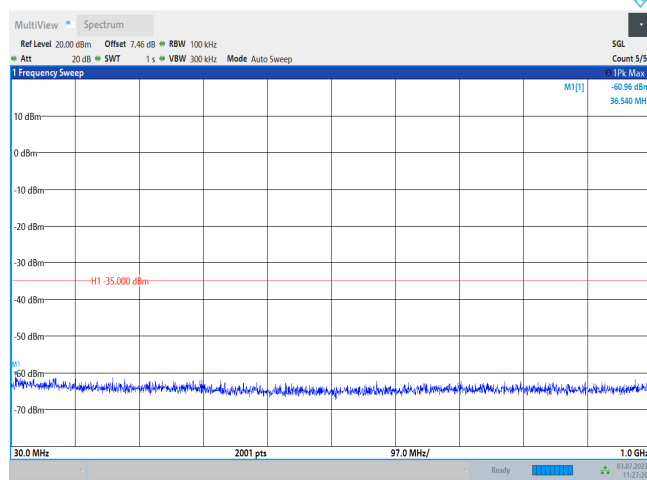
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Band38-20MHz-QPSK-38150-1RB#0-Range2:0.15~30MHz



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Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



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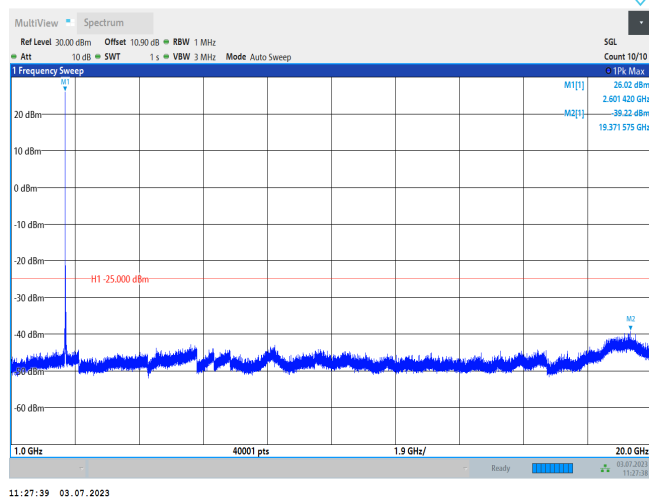
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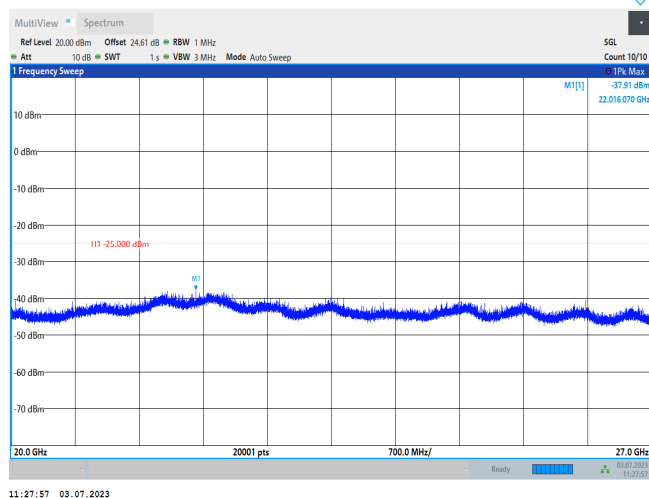
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Band38-20MHz-QPSK-38150-1RB#0-Range4:1000~20000MHz



Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_38_TM1_20MHz

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2998.222	38.72	-21.77	28.59	-49.72	-25.00	24.72	207	17	Horizontal
2	3920.4368	48.12	-44.19	29.78	-61.55	-25.00	36.55	145	311	Horizontal
3	5142.0857	48.63	-42.53	31.75	-57.41	-25.00	32.41	226	42	Horizontal
4	7849.394	44.41	-37.69	36.80	-51.74	-25.00	26.74	325	358	Horizontal
5	10962.3185	43.70	-37.15	40.14	-48.57	-25.00	23.57	221	347	Horizontal
6	15182.2873	42.87	-35.99	39.81	-48.57	-25.00	23.57	179	108	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	3000	38.74	-21.77	28.60	-49.69	-25.00	24.69	226	118	Vertical
2	3916.8367	48.04	-44.19	29.77	-61.64	-25.00	36.64	323	78	Vertical
3	5721.1088	47.28	-41.20	32.50	-56.68	-25.00	31.68	178	102	Vertical
4	9513.2605	44.17	-35.96	37.80	-49.25	-25.00	24.25	293	186	Vertical
5	11113.5245	44.11	-37.81	40.20	-48.76	-25.00	23.76	330	246	Vertical
6	15222.4889	42.26	-35.49	39.74	-48.75	-25.00	23.75	144	323	Vertical



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Test Band = LTE_38_TM1_20MHz
Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2999.3333	38.77	-21.77	28.60	-49.66	-25.00	24.66	214	8	Horizontal
2	3728.4291	48.68	-44.63	29.47	-61.74	-25.00	36.74	225	292	Horizontal
3	4813.8726	47.54	-42.94	30.74	-59.92	-25.00	34.92	336	292	Horizontal
4	7973.5989	44.69	-37.32	36.40	-51.49	-25.00	26.49	254	305	Horizontal
5	10970.1188	43.43	-37.11	40.13	-48.81	-25.00	23.81	189	314	Horizontal
6	15186.4875	42.39	-35.82	39.78	-48.91	-25.00	23.91	263	314	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2989.3321	38.79	-21.79	28.54	-49.72	-25.00	24.72	263	63	Vertical
2	4037.4415	48.33	-44.20	29.65	-61.48	-25.00	36.48	332	323	Vertical
3	5599.304	46.95	-41.44	32.59	-57.16	-25.00	32.16	145	162	Vertical
4	8955.2382	44.00	-36.11	36.88	-50.49	-25.00	25.49	228	269	Vertical
5	11090.7236	43.93	-37.53	40.19	-48.67	-25.00	23.67	263	256	Vertical
6	15198.4879	42.51	-35.35	39.71	-48.39	-25.00	23.39	321	189	Vertical



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Test Band = LTE_38_TM1_20MHz
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	3000	38.71	-21.77	28.60	-49.72	-25.00	24.72	226	195	Horizontal
2	3909.0364	48.23	-44.20	29.74	-61.49	-25.00	36.49	332	136	Horizontal
3	5202.0881	48.12	-42.54	31.89	-57.79	-25.00	32.79	178	38	Horizontal
4	7412.5765	45.05	-38.28	36.73	-51.76	-25.00	26.76	226	194	Horizontal
5	11097.3239	44.19	-37.57	40.20	-48.44	-25.00	23.44	335	123	Horizontal
6	15187.6875	42.48	-35.77	39.77	-48.78	-25.00	23.78	229	172	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2997.7775	39.01	-21.77	28.59	-49.43	-25.00	24.43	360	291	Vertical
2	3903.0361	48.00	-44.20	29.71	-61.75	-25.00	36.75	251	82	Vertical
3	5202.0881	48.82	-42.54	31.89	-57.09	-25.00	32.09	145	42	Vertical
4	7980.7992	44.73	-37.30	36.40	-51.43	-25.00	26.43	352	42	Vertical
5	11093.1237	44.11	-37.55	40.19	-48.51	-25.00	23.51	220	309	Vertical
6	15190.6876	42.45	-35.66	39.76	-48.71	-25.00	23.71	187	189	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
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	3.30	0.001272	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	6.30	0.002428	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-4.10	-0.001580	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	7.10	0.002736	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	8.60	0.003314	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	2.90	0.001118	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-1.40	-0.000539	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	7.20	0.002775	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-5.20	-0.002004	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	5.80	0.002235	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	2.10	0.000809	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-2.00	-0.000771	PASS

---End of Attachment---



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